AS/NZS Test Report

Equipment	:	**Sona IF573 802.11ax Wi-Fi 6E Module with Bluetooth 5.4**
Model No.	:	**Sona IF573**
Brand Name	:	**Laird Connectivity**
Applicant	:	**Laird Connectivity LLC**
Address	:	**W66N220 Commerce Court, Cedarburg, WI 53012 United States Of America**
Standard	:	**AS/NZS 4268:2017+Amd 1:2021**
Received Date	:	**Jan. 17, 2023**
Tested Date	:	**Jul. 26 ~ Sep. 12, 2023**

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:	**Approved by:**
Alex Huang	Gary Chang
Alex Huang / Supervisor	**Gary Chang / Manager**

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Release Record

Report No.	Version	Description	Issued Date
AR311701AC	Rev. 01	Initial issue	Oct. 05, 2023

Summary of Test Result

Ref. Std. Clause	Test Items	Measured	Result
6.3	Maximum EIRP	***Non-beamforming mode*** . EIRP (dBm): 30.15 ***Beamforming mode*** EIRP (dBm): 27.37	Pass
6.5	Emission Bandwidth	Meet the requirement of limit.	Pass
6.6	Operating Frequencies	Meet the requirement of limit.	Pass
6.4	Transmitter Spurious Emissions	Meet the requirement of limit.	Pass
7.2	Receiver Spurious Emissions	Meet the requirement of limit.	Pass
Row 60 Note2	Peak Power Spectral Density	Meet the requirement of limit.	Pass

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification..

1 General Description

1.1 Information

1.1.1 Product Details

The four configurations of the EUT are shown on the following:

Model Name	Part No.	Description
Sona IF573	453-00117	Module, Sona IF573, MIMO, MHF4
	453-00118	Module, Sona IF573, MIMO, Trace Pin
	453-00119	Module, Sona IF573, MIMO, M.2, Key E, SDIO, UART
	453-00120	Module, Sona IF573, MIMO, M.2, Key E, PCIe, UART

1.1.2 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N_{TX})	Data Rate / MCS
2400-2483.5	b	2412-2472	1-13 [13]	2	1-11 Mbps
2400-2483.5	g	2412-2472	1-13 [13]	2	6-54 Mbps
2400-2483.5	n (HT20)	2412-2472	1-13 [13]	2	MCS 0-15
2400-2483.5	ax (HE20)	2412-2472	1-13 [13]	2	MCS 0-11

Note 1: 802.11b uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
Note 2: 802.11g/n/ax uses a combination of OFDM/OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM and 1024QAM modulation.
Note 3: 802.11ax supports beamforming function.
Note 4: 802.11ax supports full RU and partial RU configuration.

1.1.3 Antenna Details

Ant. No.	Manufacturer	Model	Part Number	Type	Connector	Operating Frequencies / Gain (dBi)		
						2.4GHz	5GHz	6GHz
1	JOYMAX	TWX-100B RSAX-2001	NA	Dipole	RP-SMA	2	4	4
2	Laird	FlexMIMO 6E	EFD2471A3 S-10MH4L	PIFA	MHF4L	2.2	3.8	3.3
3	Laird	Mini NanoBlade Flex 6 GHz	EMF2471A 3S-10MH4L	PCB Dipole	MHF4L	2.4	4.4	5.2
4	Laird	FlexPIFA 6E	EFB2471A3 S-10MH4L	PIFA	MHF4L	2.2	3.9	3.8

1.1.4 EUT Operational Condition

Power Supply Type	3.3Vdc from host		
SW Version	18.15 RC1.54 wl0: May 21 2023 19:48:44 version 18.53.212.8(7e2f89f) FWID 01-2b47fc4c		
Operational Climatic	☒ Tnom (20°C)	☒ Tmax (85°C)	☒ Tmin (-40°C)
Operational Voltage	☒ Vnom (3.3 V)	☒ Vmax (3.6 V)	☒ Vmin (3.13 V)

1.1.5 Accessories

N/A

1.1.6 Channel List

Channel	Frequency(MHz)
1	2412
2	2417
3	2422
4	2427
5	2432
6	2437
7	2442
8	2447
9	2452
10	2457
11	2462
12	2467
13	2472

1.1.7 Test Tool and Duty Cycle

SC Module

Test Tool	By command, version: 18.53.180.8	
Modulation Mode	**Duty Cycle Of Test Signal (%)**	**Duty Factor (dB)**
11b	98.84%	0.05
11g	93.34%	0.30
ax HE20-OFDMA	97.99%	0.09

Test Tool	By command	
Modulation Mode	**Duty Cycle Of Test Signal (%)**	**Duty Factor (dB)**
ax HE20-OFDMA RU26	98.50%	0.07
ax HE20-OFDMA RU52	98.90%	0.05
ax HE20-OFDMA RU106	98.51%	0.07

ST M.2, PCIe module

Test Tool	By command, version: 18.53.180.8	
Modulation Mode	**Duty Cycle Of Test Signal (%)**	**Duty Factor (dB)**
11b	98.84%	0.05
11g	93.34%	0.30
ax HE20-OFDMA	97.99%	0.09

Test Tool	By command	
Modulation Mode	**Duty Cycle Of Test Signal (%)**	**Duty Factor (dB)**
ax HE20-OFDMA RU26	98.50%	0.07
ax HE20-OFDMA RU52	98.90%	0.05
ax HE20-OFDMA RU106	98.51%	0.07

1.1.8 Power Index of Test Tool

SC Module

Modulation Mode	Test Frequency (MHz)		
	2412	**2442**	**2472**
11b	78	77	76
11g	79	79	78
ax HE20-OFDMA	24	25	27

Modulation Mode	Test Frequency (MHz)		
	2412	**2442**	**2472**
ax HE20-OFDMA RU26	25	26	27
ax HE20-OFDMA RU52	25	26	27
ax HE20-OFDMA RU106	24	25	26

ST M.2, PCIe module

Modulation Mode	Test Frequency (MHz)		
	2412	**2442**	**2472**
11b	78	77	76
11g	79	79	78
ax HE20-OFDMA	24	25	27

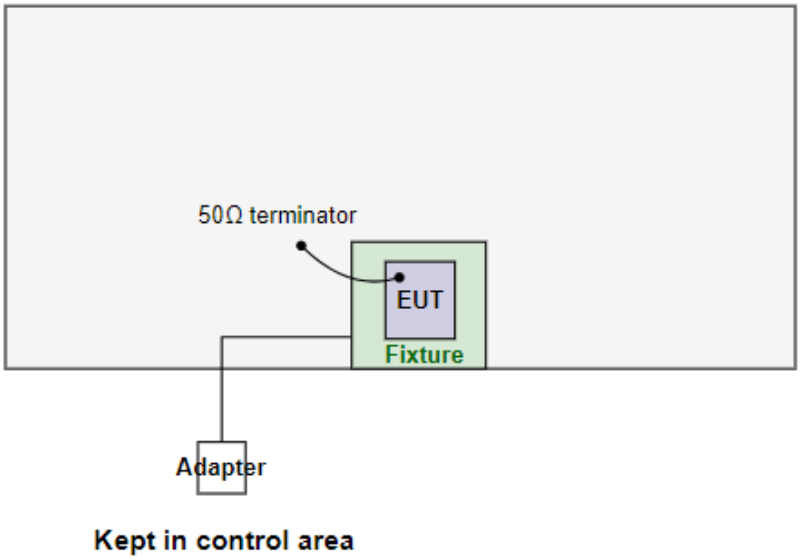
Modulation Mode	Test Frequency (MHz)		
	2412	**2442**	**2472**
ax HE20-OFDMA RU26	25	26	27
ax HE20-OFDMA RU52	25	26	27
ax HE20-OFDMA RU106	24	25	26

1.2 Local Support Equipment List

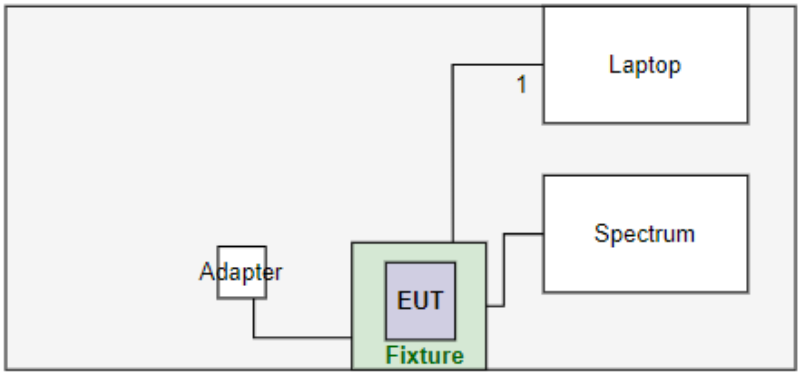
Support Equipment List					
No.	**Equipment**	**Brand**	**Model**	**S/N**	**Remarks**
1	Laptop	DELL	Latitude 5400	CXYCM33	---
2	Fixture	---	700-46370 REV B	---	Provided by applicant.
3	Fixture's adapter	---	EA1045CR	---	Provided by applicant. I/P: 100-240Vac,1.5A,50-60Hz O/P: 5.0V 3.0A
4	50Ω terminator	---	---	---	---

1.3 Test Setup Chart

Test Setup Diagram (Radiated Test)



Test Setup Diagram (Conducted Test)



No.	Signal cable / Length (m)
1	USB, 1m shielded.

1.4 Test Equipment and Calibration Data

Test Item	Radiated Emissions				
Test Site	Fully –anechoic chamber 2 / (05CH02-WS)				
Test Date	Sep. 04 ~ Sep. 08, 2023				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	Agilent	N9010A	MY52221474	Nov. 07, 2022	Nov. 06, 2023
Bilog Antenna 30-1000MHz	SCHWARZBECK	VULB9168	9168-563	Mar. 10, 2023	Mar. 09, 2024
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	9120D-1205	Feb. 03, 2023	Feb. 02, 2024
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170508	Dec. 30, 2022	Dec. 29, 2023
Preamplifier	Agilent	83017A	MY53270013	Feb. 04, 2023	Feb. 03, 2024
Preamplifier	EMC	EMC02325	980188	Oct. 26, 2022	Oct. 25, 2023
RF Cable-1M	EMC	EMC104-35M-35M-1000	210926	Oct. 12, 2022	Oct. 11, 2023
RF Cable-1M	EMC	EMC104-35M-35M-1000	210927	Oct. 12, 2022	Oct. 11, 2023
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22621/4	Oct. 12, 2022	Oct. 11, 2023
RF cable-4M	HUBER+SUHNER	SUCOFLEX104	MY32489/4	Oct. 12, 2022	Oct. 11, 2023
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-002	Oct. 12, 2022	Oct. 11, 2023
LF cable-3M	EMC	EMC8D-NM-NM-3000	131102	Oct. 12, 2022	Oct. 11, 2023
LF cable-10M	EMC	EMC8D-NM-NM-10000	131101	Oct. 12, 2022	Oct. 11, 2023
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Test Date	Jul. 27 ~ Sep. 12, 2023				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	R&S	FSV40	101910	Apr. 14, 2023	Apr. 13, 2024
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Jun. 21, 2023	Jun. 20, 2024
Power Sensor	Agilent	U2021XA	MY53480019	Mar. 07, 2023	Mar. 06, 2024
Power Sensor	Agilent	U2021XA	MY53510003	Mar. 07, 2023	Mar. 06, 2024
Power Sensor	Agilent	U2021XA	MY54070003	Mar. 27, 2023	Mar. 26, 2024
Power Sensor	Agilent	U2021XA	MY54060013	Mar. 27, 2023	Mar. 26, 2024
RF cable	EMC	EMC104-35M-35M-1000	210928	Oct. 14, 2022	Oct. 13, 2023
RF Cable	EMC	EMC104-35M-35M-1000	210929	Oct. 14, 2022	Oct. 13, 2023
RF Cable	EMC	EMC104-35M-35M-1000	210930	Oct. 14, 2022	Oct. 13, 2023
RF Cable	EMC	EMC104-35M-35M-1000	210931	Oct. 14, 2022	Oct. 13, 2023
Measurement Software	Sporton	SENSE	5.10.7	NA	NA
Measurement Software	Agilent	EN RF test	1.1501125	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emissions				
Test Site	(10CH02-HY)				
Test Date	Jul. 26, 2023				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
10m Semi Anechoic Chamber	TDK	SAC-10M	10CH02-HY	Sep. 02, 2022	Sep. 01, 2023
Receiver	R&S	ESU26	100422	Nov. 28, 2022	Nov. 27, 2023
Loop Antenna	TESEQ	HLA 6120	31244	Mar. 23, 2023	Mar. 22, 2024
Turn Table	EM Electronics	EM 1000	60546	--	---
RF Cable-R10m	MTJ	RG223/U + RG8/U	CB026-DOOR	Sep. 14, 2022	Sep. 13, 2023
Software	Audix	E3	6.12 160809	--	---
Note: Calibration Interval of instruments listed above is one year.					

1.5 Testing Applied Standards

AS/NZS 4268:2017+Amd 1:2021

1.6 Deviation from Test Standard and Measurement Procedure

None

1.7 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Measurement Uncertainty		
Parameters	**Uncertainty**	**Limit**
Radio Frequency	$\pm 1.4 \times 10^{-9}$	$\pm 1 \times 10^{-5}$
RF power conducted	±0.808 dB	±1,5 dB
RF power radiated	±3.398 dB	±6 dB
Spurious emission, conducted	±2.470 dB	±3 dB
Spurious emission, radiated	±3.398 dB	±6 dB
Humidity	±4.7%	±5 %
Temperature	±0.8 °C	±2 °C
Time	±0.1 %	±10 %

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	TH01-WS
Address of Test Site	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)
Test Site	05CH02-WS
Address of Test Site	No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

Test Laboratory	Sporton International Inc. Hsinhua Laboratory
Test Site	10CH02-HY
Address of Test Site	No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.) Tel: 886-3-327-3456, Fax: 886-3-327-0973

Note: * ICC lab subcontracts this test item to Sporton Hsinhua Lab (TAF: 3785).
Sporton Hsinhua Lab is a TAF accreditation test firm and also is an approved provider of ICC lab.

2.2 The Worst Test Modes and Channel Details

full RU configuration							
Test item	**Modulation Mode**	**Test Frequency (MHz)**	**Data Rate**	**Test method**	**Mode**	**Test Configuration**	**Note**
Non-beamforming mode							
Maximum EIRP Power Spectral Density Emission Bandwidth	11b 11g ax HE20-OFDMA	2412 / 2442 / 2472 2412 / 2442 / 2472 2412 / 2442 / 2472	1 Mbps 6 Mbps MCS 0	Conducted	TX	1	-
Maximum EIRP Power Spectral Density	11b 11g ax HE20-OFDMA	2412 / 2442 / 2472 2412 / 2442 / 2472 2412 / 2442 / 2472	1 Mbps 6 Mbps MCS 0	Conducted	TX	2	-
Transmitter Emissions ≤ 1GHz	11g ax HE20-OFDMA	2412 / 2472 2412 / 2472	6 Mbps MCS 0	Conducted Radiated	TX	1	- Note 2
Transmitter Emissions >1GHz	11b 11g ax HE20-OFDMA	2412 / 2472 2412 / 2472 2412 / 2472	1 Mbps 6 Mbps MCS 0	Conducted Radiated	TX	1	- Note 2
Receiver Emissions ≤ 1GHz Receiver Emissions >1GHz	11g ax HE20-OFDMA	2412 / 2472 2412 / 2472	6 Mbps MCS 0	Conducted Radiated	RX	1	- Note 2
Operating Frequencies	11b 11g ax HE20-OFDMA	2412 / 2472 2412 / 2472 2412 / 2472	1 Mbps 6 Mbps MCS 0	Conducted	TX	1	-
Transmitter Spurious Emissions ≤ 30 MHz	11b 11g ax HE20-OFDMA	2412 / 2472 2412 / 2472 2412 / 2472	1 Mbps 6 Mbps MCS 0	Radiated	TX	3 4 5 6	Note 5
Receiver Spurious Emissions ≤ 30 MHz	11g ax HE20-OFDMA	2412 / 2472 2412 / 2472	6 Mbps MCS 0	Radiated	RX	3 4 5 6	Note 5
Beamforming mode							
Maximum EIRP	ax HE20-OFDMA	2412 / 2442 / 2472	MCS 0	Conducted	TX	1, 2	-

NOTE:

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Z-plane** result was found as the worst case and was shown in this report.
2. The 50Ω terminator is connected to antenna port of EUT for radiated emission measurement.
3. Beamforming mode is calculated not measured. The calculation method is conducted power of non-beamforming – 3.01 dB.
4. Test configurations are listed as below:
   Configuration 1: Laird part number: 453-00117 (SC module)
   Configuration 2: Laird part number: 453-00120 (ST M.2, PCIe Module)
5. Test configurations for Spurious Emission below 30MHz Test:
   Configuration 3: Laird part number: 453-00117 (SC module) with Ant.: TWX-100BRSAX-2001
   Configuration 4: Laird part number: 453-00117 (SC module) with Ant.: FlexMIMO 6E
   Configuration 5: Laird part number: 453-00117 (SC module) with Ant.: Mini NanoBlade Flex 6 GHz
   Configuration 6: Laird part number: 453-00117 (SC module) with Ant.: FlexPIFA 6E

partial RU configuration							
Test item	**Modulation Mode**	**Test Frequency (MHz)**	**Data Rate**	**Test method**	**Mode**	**Test Configuration**	**Note**
Non-beamforming mode							
RF Output Power Power Spectral Density	ax HE20-OFDMA RU26 RU52 RU106	2412 / 2442 / 2472 2412 / 2442 / 2472 2412 / 2442 / 2472	MCS 0 MCS 0 MCS 0	Conducted	TX	1, 2	-
Transmitter Emissions	ax HE20-OFDMA RU26	2412 / 2472	MCS 0	Conducted	TX	1	-
				Radiated			Note 2
Beamforming mode							
RF Output Power	ax HE20-OFDMA RU26 RU52 RU106	2412 / 2442 / 2472 2412 / 2442 / 2472 2412 / 2442 / 2472	MCS 0 MCS 0 MCS 0	Conducted	TX	1, 2	-

NOTE:

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Z-plane** result was found as the worst case and was shown in this report.
2. The 50Ω terminator is connected to antenna port of EUT for radiated emission measurement.
3. Beamforming mode is calculated not measured. The calculation method is conducted power of non-beamforming – 3.01 dB.
4. Test configurations are listed as below:
   Configuration 1: Laird part number: 453-00117 (SC module)
   Configuration 2: Laird part number: 453-00120 (ST M.2, PCIe Module)

3 Transmitter Test Results

3.1 Maximum EIRP

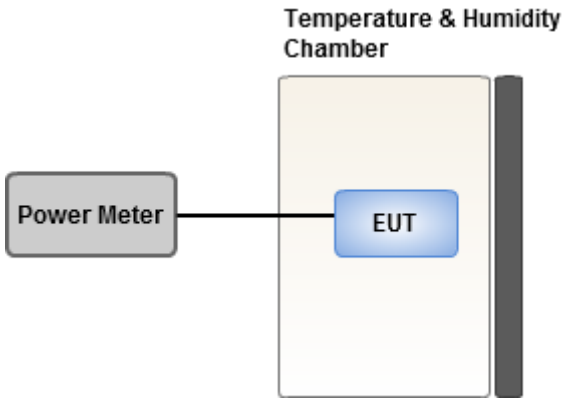
3.1.1 EIRP Limits

The equivalent isotropic radiated power (e.i.r.p.) shall be equal to or less than 4 W (36dBm).

3.1.2 Test Procedures

Reference to clause 6.2.1 of AS/NZS 4268:2017+Amd 1:2021.

3.1.3 Test Setup



3.1.4 Test Results

Ambient Condition	20°C / 65%	**Tested By**	Hugo Zhen / Ryan Lee

Refer to Appendix A.

3.2 Emission Bandwidth

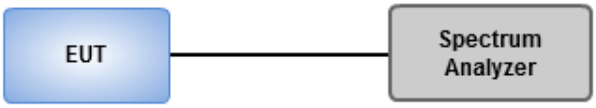
3.2.1 Limit of Emission Bandwidth

The upper and lower frequency limits of the transmitter 99% emission power bandwidth shall at all times remain within the operating frequency limits.

3.2.2 Test Procedures

Reference to clause 6.2.1 of AS/NZS 4268:2017+Amd 1:2021.

3.2.3 Test Setup



3.2.4 Test Results

Ambient Condition	20°C / 65%	**Tested By**	Hugo Zhen

Refer to Appendix B.

3.3 Power Spectral Density

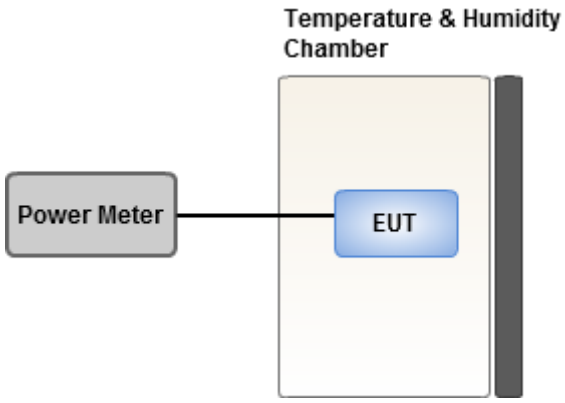
3.3.1 Power Spectral Density Limits

The raidated peak power spectral density in any 3 kHz is limited to 25 mW (14dBm) per 3 kHz.

3.3.2 Test Procedures

Reference to clause 6.2.1 of AS/NZS 4268:2017+Amd 1:2021.

3.3.3 Test Setup



3.3.4 Test Results

Ambient Condition	20°C / 65%	**Tested By**	Hugo Zhen

Refer to Appendix C.

3.4 Operating Frequencies

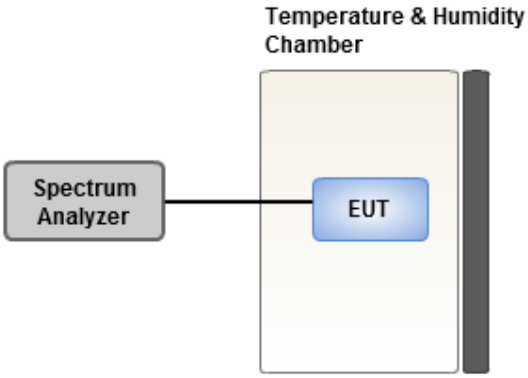
3.4.1 Limit of Operating Frequencies

The upper and lower frequency limit of the emission bandwidth shall at all times remain within the operating frequency (f_L > 2,4 GHz and f_H < 2,4835 GHz).

3.4.2 Test Procedures

Reference to clause 6.2.1 of AS/NZS 4268:2017+Amd 1:2021.

3.4.3 Test Setup



3.4.4 Test Results

Ambient Condition	20°C / 65%	**Tested By**	Hugo Zhen

Refer to Appendix D.

3.5 Transmitter Spurious Emissions

3.5.1 Limit of Transmitter Spurious Emissions

Spurious Emissions Limit (Peak Power)	Frequency Range	Measurement Bandwidth
-56 dBW (2.5μW) e.i.r.p (59 dBμV/m at 10 metres)	< 150 kHz	1 kHz
	150 kHz – 30 MHz	10 kHz

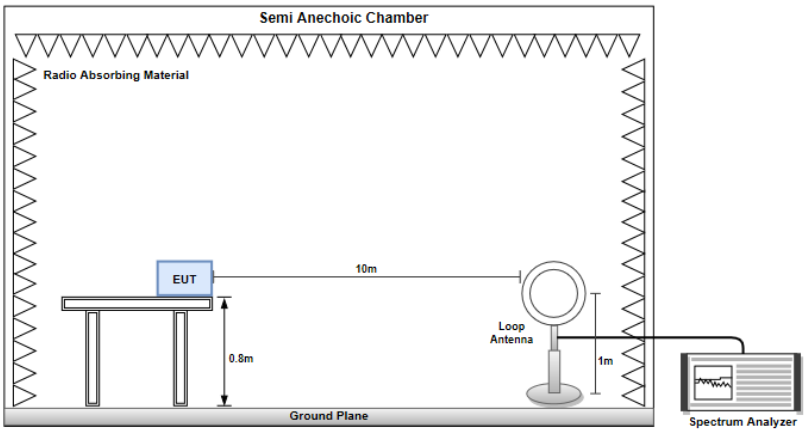
Frequency Range (MHz)	Maximum power (dBm)	Bandwidth (kHz)
30 to 47	-36	100
47 to 74	-54	100
74 to 87,5	-36	100
87,5 to 118	-54	100
118 to 174	-36	100
174 to 230	-54	100
230 to 470	-36	100
470 to 862	-54	100
862 to 1000	-36	100
1000 to 12750	-30	1000

3.5.2 Test Procedures

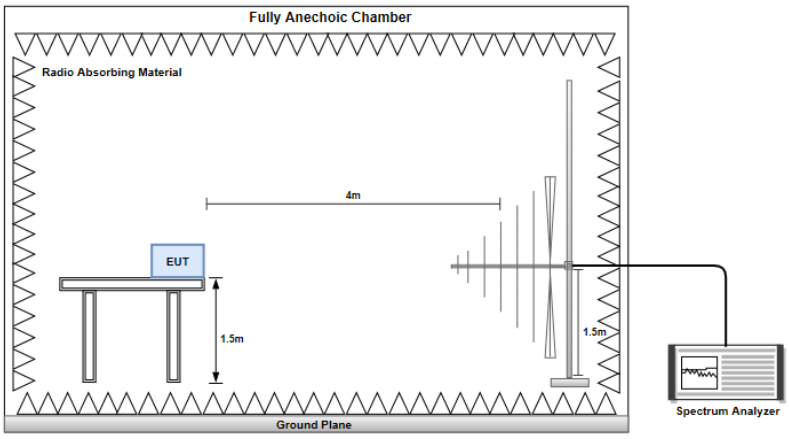
Reference to clause 6.2.1 of AS/NZS 4268:2017+Amd 1:2021.

3.5.3 Test Setup

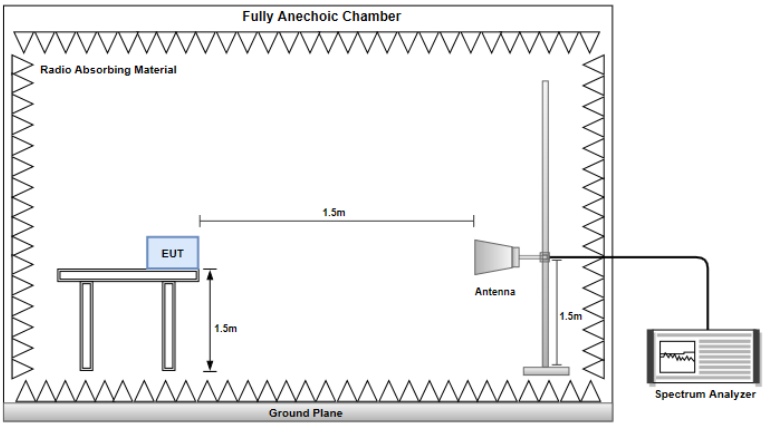
Below 30MHz



Below 1GHz



Above 1 GHz



3.5.4 Test Results

Refer to Appendix E.

4 Receiver Test Results

4.1 Receiver Spurious Emissions

4.1.1 Limit of Receiver Spurious Emissions

Spurious Emissions Limit (Peak Power)	Frequency Range	Measurement Bandwidth
-56 dBW (2.5μW) e.i.r.p (59 dBμV/m at 10 metres)	< 150 kHz	1 kHz
	150 kHz – 30 MHz	10 kHz

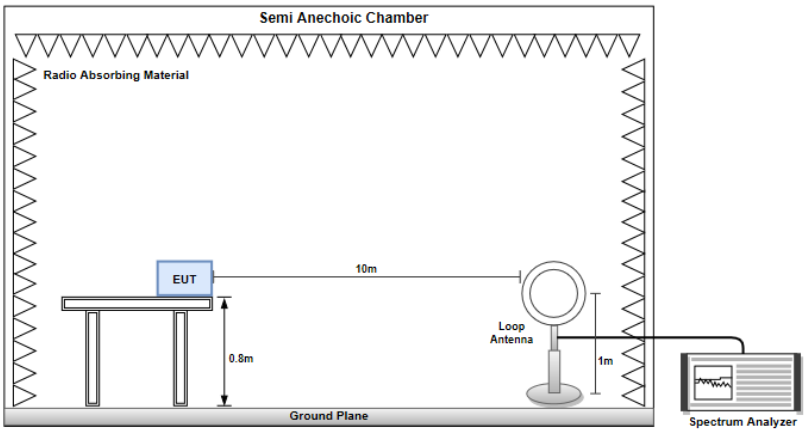
Frequency Range	Maximum power (dBm)	Measurement bandwidth (kHz)
30 MHz to 1 GHz	-57	100
Above 1 GHz to 12.75 GHz	-47	1000

4.1.2 Test Procedures

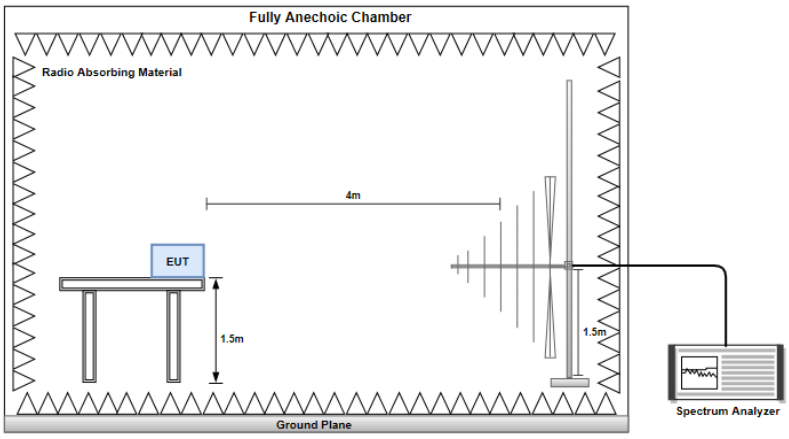
Reference to clause 7.2.1 of AS/NZS 4268:2017+Amd 1:2021.

4.1.3 Test Setup

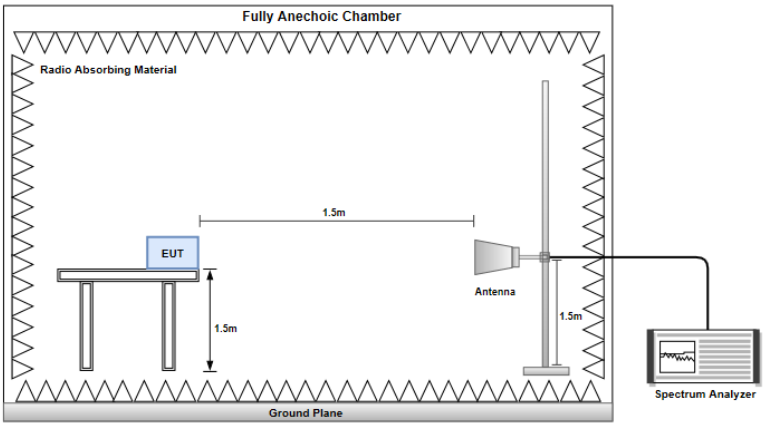
Below 30MHz



Below 1GHz



Above 1 GHz

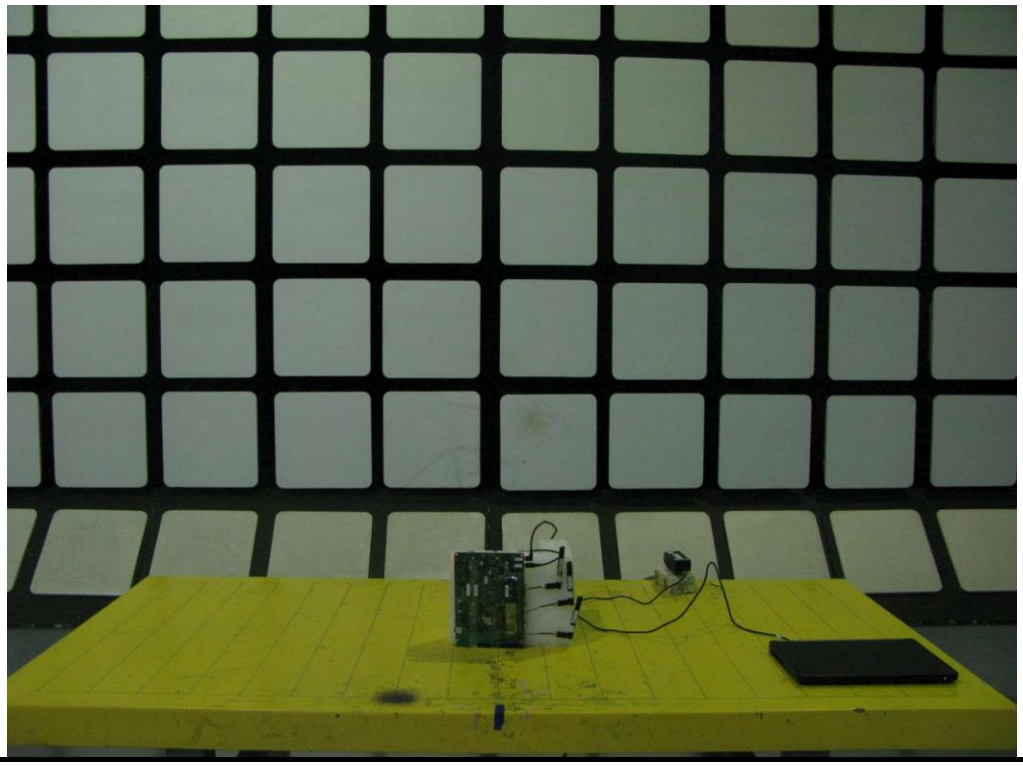


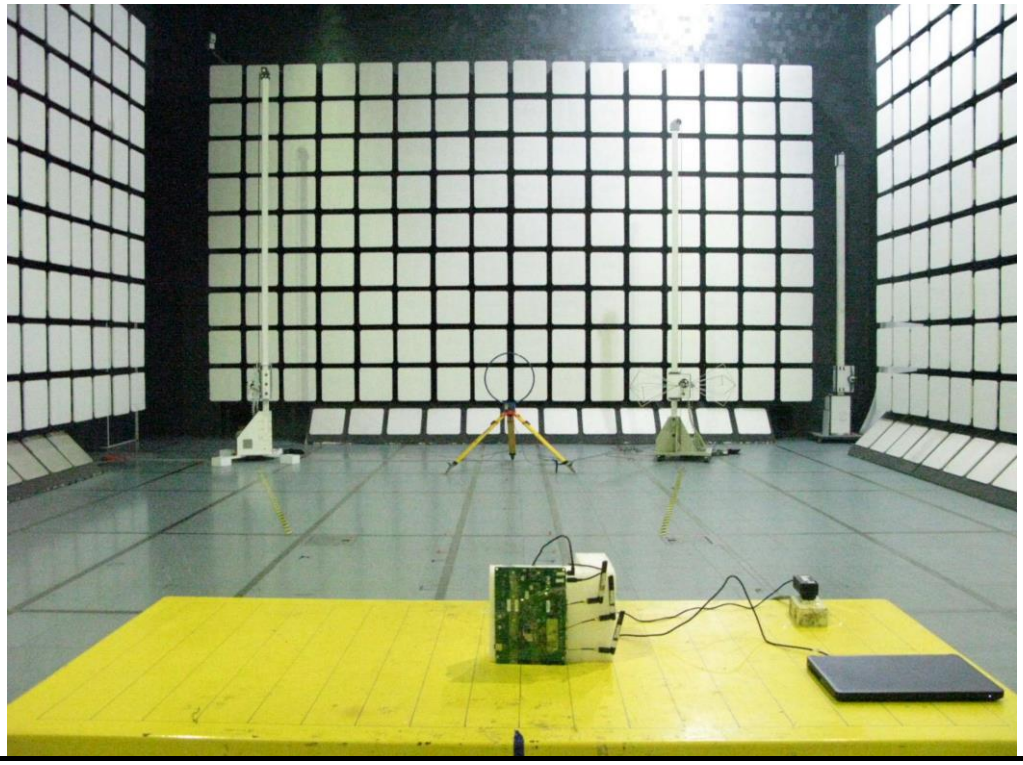
4.1.4 Test Results

Refer to Appendix F.

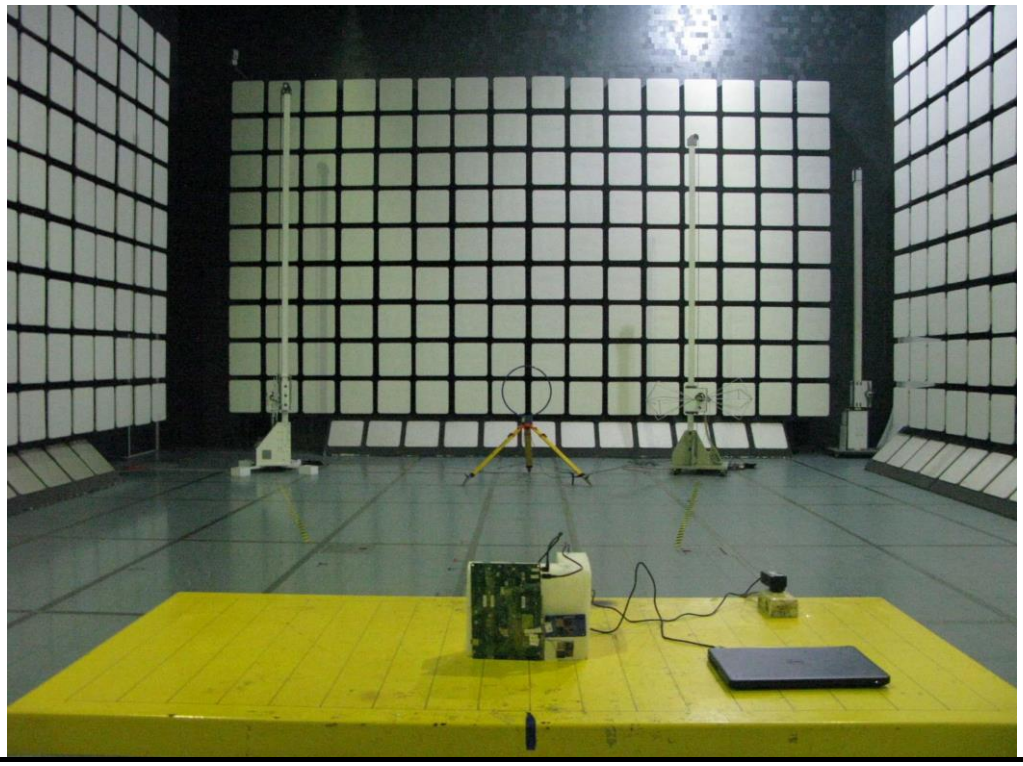
5 Photographs of the Test Configuration

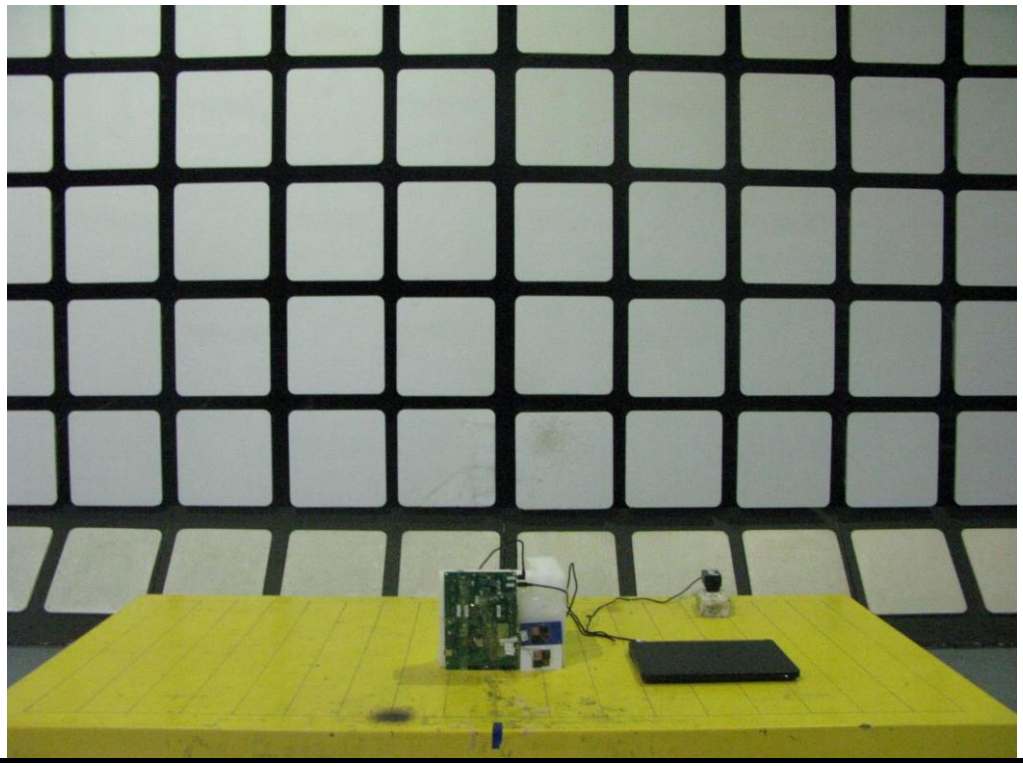
Spurious Emission below 30MHz Test (with Ant.: TWX-100BRSAX-2001)



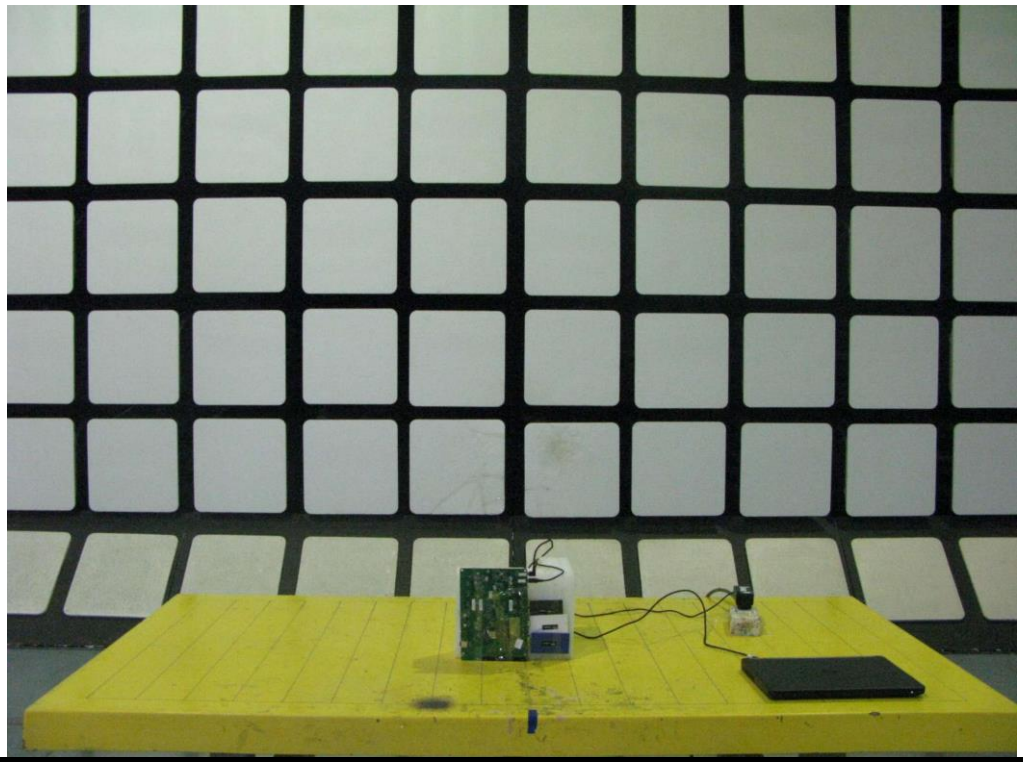


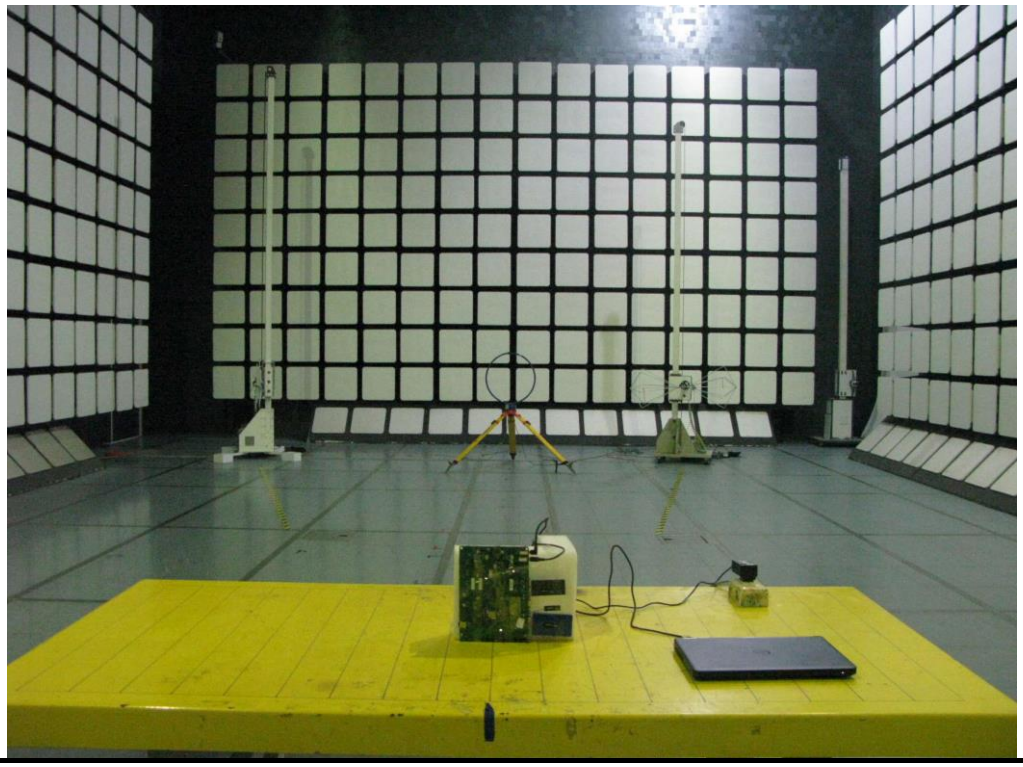
Spurious Emission below 30MHz Test (with Ant.: FlexMIMO 6E)



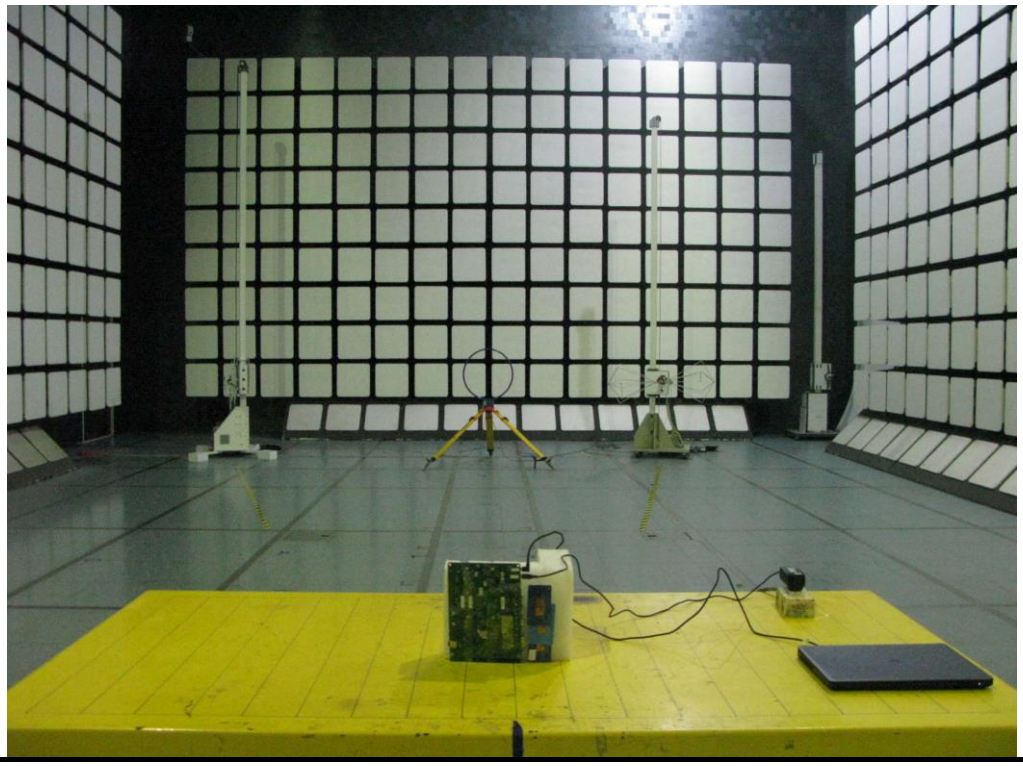


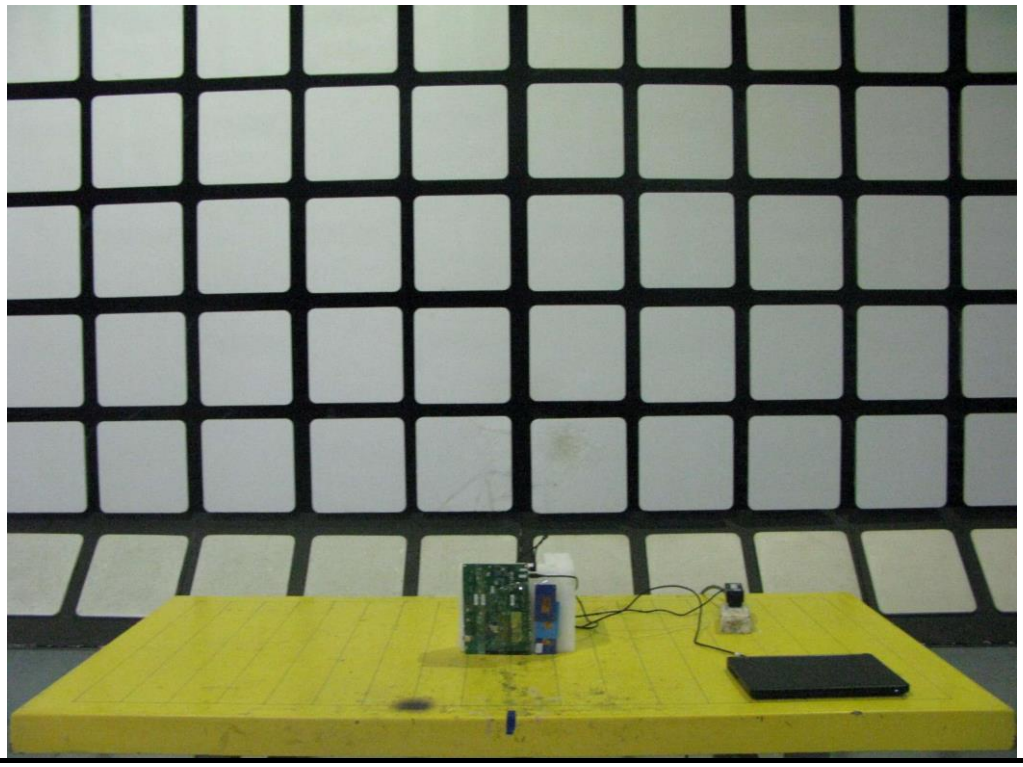
Spurious Emission below 30MHz Test (with Ant.: Mini NanoBlade Flex 6 GHz)



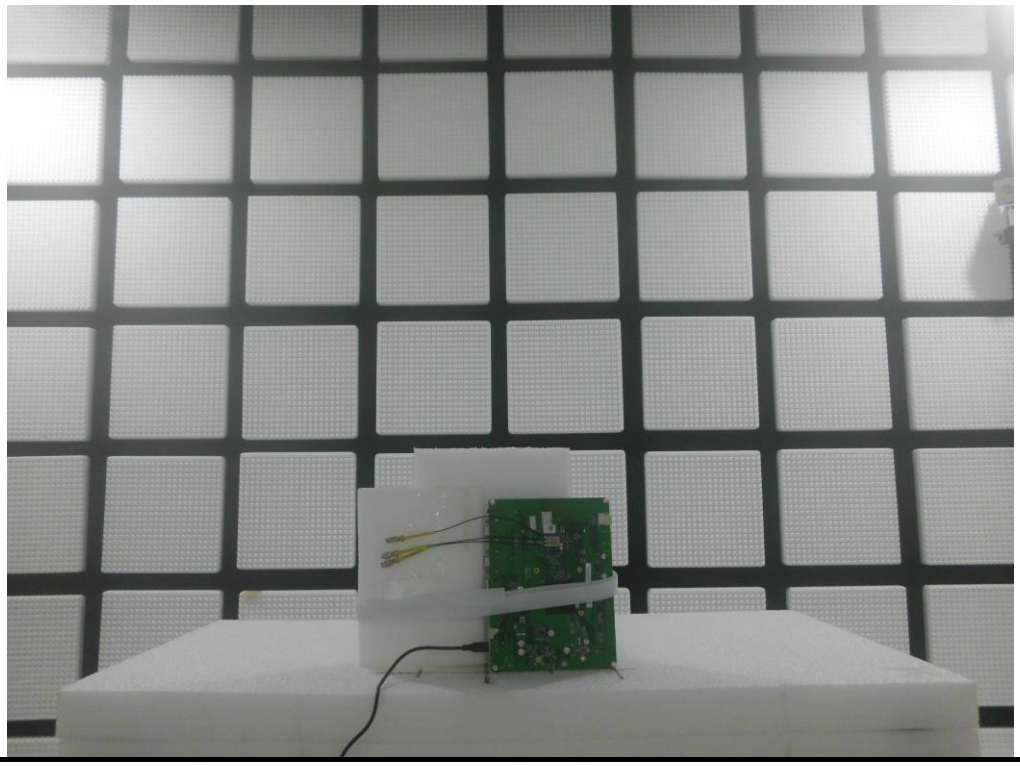


Spurious Emission below 30MHz Test (with Ant.: FlexPIFA 6E)

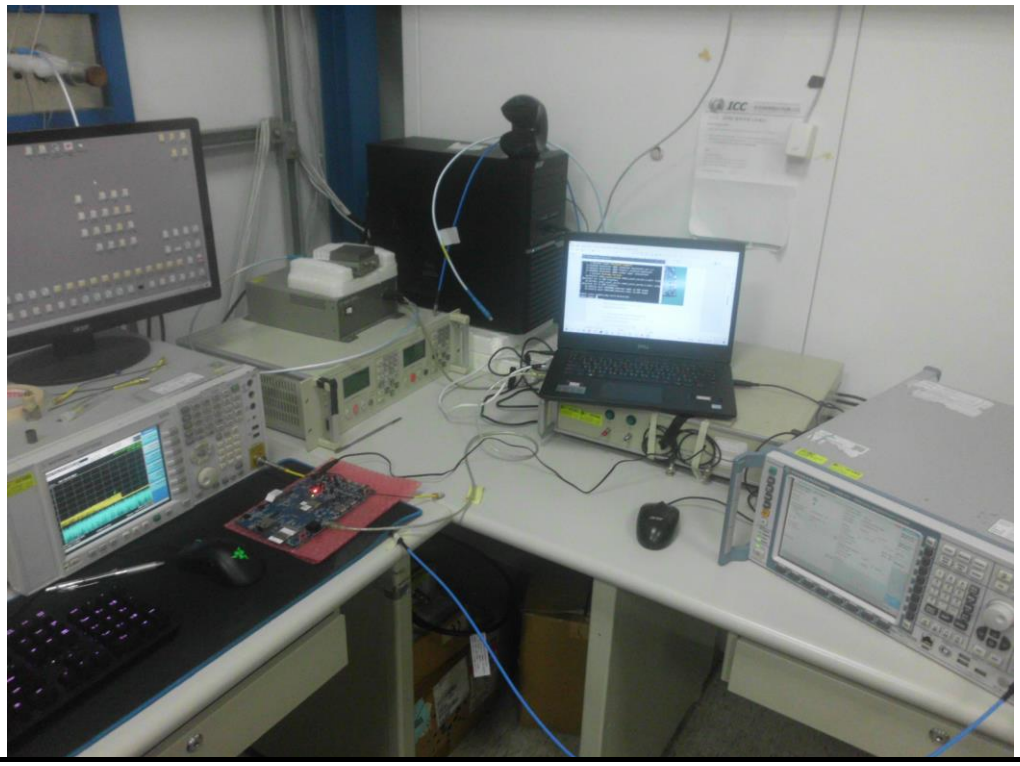




Spurious Emission above 30MHz Test (RSE)



Spurious Emission above 30MHz Test (CSE)



6 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website http://www.icertifi.com.tw.

Linkou

Tel: 886-2-2601-1640

No.30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan (R.O.C.)

Kwei Shan

Tel: 886-3-271-8666

No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

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Kwei Shan Site II

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If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666
Fax: 886-3-318-0345
Email: ICC_Service@icertifi.com.tw

═END═

full RU configuration

Non-beamforming mode

EIRP (dBm)					
Modulation Mode	11b				
Condition	**Freq. (MHz)**	**EIRP PK Power**	**EIRP AV Power**	**Limit (dBm)**	**Results**
$T_{nom}V_{nom}$	2412	27.45	25.02	36	Pass
$T_{min}V_{max}$	2412	27.33	24.90	36	Pass
$T_{min}V_{min}$	2412	27.35	24.92	36	Pass
$T_{max}V_{max}$	2412	27.64	**25.21**	36	Pass
$T_{max}V_{min}$	2412	27.61	25.18	36	Pass
$T_{nom}V_{nom}$	2442	27.18	24.92	36	Pass
$T_{min}V_{max}$	2442	27.12	24.86	36	Pass
$T_{min}V_{min}$	2442	27.15	24.89	36	Pass
$T_{max}V_{max}$	2442	27.32	25.06	36	Pass
$T_{max}V_{min}$	2442	27.30	25.04	36	Pass
$T_{nom}V_{nom}$	2472	27.31	24.90	36	Pass
$T_{min}V_{max}$	2472	27.27	24.86	36	Pass
$T_{min}V_{min}$	2472	27.30	24.89	36	Pass
$T_{max}V_{max}$	2472	27.49	25.08	36	Pass
$T_{max}V_{min}$	2472	27.47	25.06	36	Pass

EIRP (dBm)					
Modulation Mode	11g				
Condition	**Freq. (MHz)**	**EIRP PK Power**	**EIRP AV Power**	**Limit (dBm)**	**Results**
$T_{nom}V_{nom}$	2412	29.67	24.78	36	Pass
$T_{min}V_{max}$	2412	29.41	24.52	36	Pass
$T_{min}V_{min}$	2412	29.43	24.54	36	Pass
$T_{max}V_{max}$	2412	29.59	24.70	36	Pass
$T_{max}V_{min}$	2412	29.57	24.68	36	Pass
$T_{nom}V_{nom}$	2442	29.62	24.87	36	Pass
$T_{min}V_{max}$	2442	29.29	24.54	36	Pass
$T_{min}V_{min}$	2442	29.31	24.56	36	Pass
$T_{max}V_{max}$	2442	29.63	24.88	36	Pass
$T_{max}V_{min}$	2442	29.61	24.86	36	Pass
$T_{nom}V_{nom}$	2472	29.50	24.94	36	Pass
$T_{min}V_{max}$	2472	29.22	24.66	36	Pass
$T_{min}V_{min}$	2472	29.24	24.68	36	Pass
$T_{max}V_{max}$	2472	29.41	24.85	36	Pass
$T_{max}V_{min}$	2472	29.39	24.83	36	Pass

EIRP (dBm)					
Modulation Mode	ax HE20-OFDMA				
Condition	**Freq. (MHz)**	**EIRP PK Power**	**EIRP AV Power**	**Limit (dBm)**	**Results**
$T_{nom}V_{nom}$	2412	29.82	22.77	36	Pass
$T_{min}V_{max}$	2412	29.62	22.57	36	Pass
$T_{min}V_{min}$	2412	29.65	22.60	36	Pass
$T_{max}V_{max}$	2412	30.11	23.06	36	Pass
$T_{max}V_{min}$	2412	30.09	23.04	36	Pass
$T_{nom}V_{nom}$	2442	29.88	22.83	36	Pass
$T_{min}V_{max}$	2442	29.46	22.41	36	Pass
$T_{min}V_{min}$	2442	29.50	22.45	36	Pass
$T_{max}V_{max}$	2442	30.14	23.09	36	Pass
$T_{max}V_{min}$	2442	30.11	23.06	36	Pass
$T_{nom}V_{nom}$	2472	29.74	22.75	36	Pass
$T_{min}V_{max}$	2472	29.34	22.35	36	Pass
$T_{min}V_{min}$	2472	29.36	22.37	36	Pass
$T_{max}V_{max}$	2472	30.02	23.03	36	Pass
$T_{max}V_{min}$	2472	29.98	22.99	36	Pass

Beamforming mode

EIRP (dBm)					
Modulation Mode	ax HE20-OFDMA				
Condition	Freq. (MHz)	EIRP PK Power	EIRP AV Power	Limit (dBm)	Results
$T_{nom}V_{nom}$	2412	26.81	19.76	36	Pass
$T_{min}V_{max}$	2412	26.61	19.56	36	Pass
$T_{min}V_{min}$	2412	26.64	19.59	36	Pass
$T_{max}V_{max}$	2412	27.10	20.05	36	Pass
$T_{max}V_{min}$	2412	27.08	20.03	36	Pass
$T_{nom}V_{nom}$	2442	26.87	19.82	36	Pass
$T_{min}V_{max}$	2442	26.45	19.40	36	Pass
$T_{min}V_{min}$	2442	26.49	19.44	36	Pass
$T_{max}V_{max}$	2442	27.13	20.08	36	Pass
$T_{max}V_{min}$	2442	27.10	20.05	36	Pass
$T_{nom}V_{nom}$	2472	26.73	19.74	36	Pass
$T_{min}V_{max}$	2472	26.33	19.34	36	Pass
$T_{min}V_{min}$	2472	26.35	19.36	36	Pass
$T_{max}V_{max}$	2472	27.01	20.02	36	Pass
$T_{max}V_{min}$	2472	26.97	19.98	36	Pass

partial RU configuration

Non-beamforming mode

EIRP (dBm)					
Modulation Mode	ax HE20-OFDMA RU26				
Condition	**Freq. (MHz)**	**EIRP PK Power**	**EIRP AV Power**	**Limit (dBm)**	**Results**
$T_{nom}V_{nom}$	2412	30.04	22.95	36	Pass
$T_{min}V_{max}$	2412	30.04	22.95	36	Pass
$T_{min}V_{min}$	2412	30.06	22.97	36	Pass
$T_{max}V_{max}$	2412	30.04	22.95	36	Pass
$T_{max}V_{min}$	2412	30.01	22.92	36	Pass
$T_{nom}V_{nom}$	2442	30.12	22.85	36	Pass
$T_{min}V_{max}$	2442	30.12	22.85	36	Pass
$T_{min}V_{min}$	2442	**30.15**	22.88	36	Pass
$T_{max}V_{max}$	2442	30.12	22.85	36	Pass
$T_{max}V_{min}$	2442	30.10	22.83	36	Pass
$T_{nom}V_{nom}$	2472	29.93	22.82	36	Pass
$T_{min}V_{max}$	2472	29.93	22.82	36	Pass
$T_{min}V_{min}$	2472	29.96	22.85	36	Pass
$T_{max}V_{max}$	2472	29.93	22.82	36	Pass
$T_{max}V_{min}$	2472	29.91	22.80	36	Pass

EIRP (dBm)					
Modulation Mode	ax HE20-OFDMA RU52				
Condition	**Freq. (MHz)**	**EIRP PK Power**	**EIRP AV Power**	**Limit (dBm)**	**Results**
$T_{nom}V_{nom}$	2412	30.02	22.59	36	Pass
$T_{min}V_{max}$	2412	30.02	22.59	36	Pass
$T_{min}V_{min}$	2412	30.04	22.61	36	Pass
$T_{max}V_{max}$	2412	30.02	22.59	36	Pass
$T_{max}V_{min}$	2412	30.00	22.57	36	Pass
$T_{nom}V_{nom}$	2442	30.00	22.73	36	Pass
$T_{min}V_{max}$	2442	30.00	22.73	36	Pass
$T_{min}V_{min}$	2442	30.02	22.75	36	Pass
$T_{max}V_{max}$	2442	30.00	22.73	36	Pass
$T_{max}V_{min}$	2442	29.98	22.71	36	Pass
$T_{nom}V_{nom}$	2472	29.78	22.85	36	Pass
$T_{min}V_{max}$	2472	29.78	22.85	36	Pass
$T_{min}V_{min}$	2472	29.80	22.87	36	Pass
$T_{max}V_{max}$	2472	29.78	22.85	36	Pass
$T_{max}V_{min}$	2472	29.76	22.83	36	Pass

EIRP (dBm)					
Modulation Mode	ax HE20-OFDMA RU106				
Condition	**Freq. (MHz)**	**EIRP PK Power**	**EIRP AV Power**	**Limit (dBm)**	**Results**
$T_{nom}V_{nom}$	2412	30.01	22.82	36	Pass
$T_{min}V_{max}$	2412	30.01	22.82	36	Pass
$T_{min}V_{min}$	2412	30.04	22.85	36	Pass
$T_{max}V_{max}$	2412	30.01	22.82	36	Pass
$T_{max}V_{min}$	2412	29.99	22.80	36	Pass
$T_{nom}V_{nom}$	2442	30.10	22.88	36	Pass
$T_{min}V_{max}$	2442	30.10	22.88	36	Pass
$T_{min}V_{min}$	2442	30.14	22.92	36	Pass
$T_{max}V_{max}$	2442	30.10	22.88	36	Pass
$T_{max}V_{min}$	2442	30.07	22.85	36	Pass
$T_{nom}V_{nom}$	2472	29.92	22.83	36	Pass
$T_{min}V_{max}$	2472	29.92	22.83	36	Pass
$T_{min}V_{min}$	2472	29.94	22.85	36	Pass
$T_{max}V_{max}$	2472	29.92	22.83	36	Pass
$T_{max}V_{min}$	2472	29.88	22.79	36	Pass

Beamforming mode

EIRP (dBm)					
Modulation Mode	ax HE20-OFDMA RU26				
Condition	**Freq. (MHz)**	**EIRP PK Power**	**EIRP AV Power**	**Limit (dBm)**	**Results**
TnomVnom	2412	27.03	19.94	36	Pass
TminVnom	2412	26.86	18.44	36	Pass
TmaxVnom	2412	27.32	18.90	36	Pass
TnomVnom	2442	27.11	19.84	36	Pass
TminVnom	2442	26.73	18.30	36	Pass
TmaxVnom	2442	**27.37**	18.94	36	Pass
TnomVnom	2472	26.92	19.81	36	Pass
TminVnom	2472	26.54	18.13	36	Pass
TmaxVnom	2472	27.20	18.79	36	Pass

EIRP (dBm)					
Modulation Mode	ax HE20-OFDMA RU52				
Condition	**Freq. (MHz)**	**EIRP PK Power**	**EIRP AV Power**	**Limit (dBm)**	**Results**
TnomVnom	2412	27.01	19.58	36	Pass
TminVnom	2412	26.84	18.31	36	Pass
TmaxVnom	2412	27.30	18.77	36	Pass
TnomVnom	2442	26.99	19.72	36	Pass
TminVnom	2442	26.61	18.21	36	Pass
TmaxVnom	2442	27.25	18.85	36	Pass
TnomVnom	2472	26.77	19.84	36	Pass
TminVnom	2472	26.39	18.01	36	Pass
TmaxVnom	2472	27.05	18.67	36	Pass

EIRP (dBm)					
Modulation Mode	ax HE20-OFDMA RU106				
Condition	**Freq. (MHz)**	**EIRP PK Power**	**EIRP AV Power**	**Limit (dBm)**	**Results**
TnomVnom	2412	27.00	19.81	36	Pass
TminVnom	2412	26.83	18.34	36	Pass
TmaxVnom	2412	27.29	18.80	36	Pass
TnomVnom	2442	27.09	19.87	36	Pass
TminVnom	2442	26.71	18.30	36	Pass
TmaxVnom	2442	27.35	18.94	36	Pass
TnomVnom	2472	26.91	19.82	36	Pass
TminVnom	2472	26.53	18.03	36	Pass
TmaxVnom	2472	27.19	18.69	36	Pass

full RU configuration

Non-beamforming mode

EIRP (dBm)					
Modulation Mode	11b				
Condition	Freq. (MHz)	EIRP PK Power	EIRP AV Power	Limit (dBm)	Results
TnomVnom	2412	26.68	24.33	36	Pass
TnomVnom	2442	26.80	24.43	36	Pass
TnomVnom	2472	26.78	24.29	36	Pass

EIRP (dBm)					
Modulation Mode	11g				
Condition	Freq. (MHz)	EIRP PK Power	EIRP AV Power	Limit (dBm)	Results
TnomVnom	2412	29.20	23.89	36	Pass
TnomVnom	2442	29.04	24.31	36	Pass
TnomVnom	2472	29.19	**24.78**	36	Pass

EIRP (dBm)					
Modulation Mode	ax HE20-OFDMA				
Condition	Freq. (MHz)	EIRP PK Power	EIRP AV Power	Limit (dBm)	Results
TnomVnom	2412	29.57	22.03	36	Pass
TnomVnom	2442	29.29	22.27	36	Pass
TnomVnom	2472	29.22	21.77	36	Pass

Beamforming mode

EIRP (dBm)					
Modulation Mode	ax HE20-OFDMA				
Condition	Freq. (MHz)	EIRP PK Power	EIRP AV Power	Limit (dBm)	Results
TnomVnom	2412	26.56	19.02	36	Pass
TnomVnom	2442	26.28	19.26	36	Pass
TnomVnom	2472	26.21	18.76	36	Pass

partial RU configuration

Non-beamforming mode

EIRP (dBm)					
Modulation Mode	ax HE20-OFDMA RU26				
Condition	**Freq. (MHz)**	**EIRP PK Power**	**EIRP AV Power**	**Limit (dBm)**	**Results**
TnomVnom	2412	30.00	22.55	36	Pass
TnomVnom	2442	**30.01**	22.32	36	Pass
TnomVnom	2472	29.90	22.20	36	Pass

EIRP (dBm)					
Modulation Mode	ax HE20-OFDMA RU52				
Condition	**Freq. (MHz)**	**EIRP PK Power**	**EIRP AV Power**	**Limit (dBm)**	**Results**
TnomVnom	2412	29.89	22.04	36	Pass
TnomVnom	2442	29.90	22.16	36	Pass
TnomVnom	2472	29.75	22.10	36	Pass

EIRP (dBm)					
Modulation Mode	ax HE20-OFDMA RU106				
Condition	**Freq. (MHz)**	**EIRP PK Power**	**EIRP AV Power**	**Limit (dBm)**	**Results**
TnomVnom	2412	29.79	22.22	36	Pass
TnomVnom	2442	29.85	22.39	36	Pass
TnomVnom	2472	29.86	22.27	36	Pass

Beamforming mode

EIRP (dBm)					
Modulation Mode	ax HE20-OFDMA RU26				
Condition	**Freq. (MHz)**	**EIRP PK Power**	**EIRP AV Power**	**Limit (dBm)**	**Results**
TnomVnom	2412	26.99	**19.54**	36	Pass
TnomVnom	2442	**27.00**	19.31	36	Pass
TnomVnom	2472	26.89	19.19	36	Pass

EIRP (dBm)					
Modulation Mode	ax HE20-OFDMA RU52				
Condition	**Freq. (MHz)**	**EIRP PK Power**	**EIRP AV Power**	**Limit (dBm)**	**Results**
TnomVnom	2412	26.88	19.03	36	Pass
TnomVnom	2442	26.89	19.15	36	Pass
TnomVnom	2472	26.74	19.09	36	Pass

EIRP (dBm)					
Modulation Mode	ax HE20-OFDMA RU106				
Condition	**Freq. (MHz)**	**EIRP PK Power**	**EIRP AV Power**	**Limit (dBm)**	**Results**
TnomVnom	2412	26.78	19.21	36	Pass
TnomVnom	2442	26.84	19.38	36	Pass
TnomVnom	2472	26.85	19.26	36	Pass

Summary

Mode	OBW (Hz)	ITU-Code
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	12.425M	12M4G1D
802.11g_Nss1,(6Mbps)_2TX	16.65M	16M6D1D
ax20_OFDMA_Nss1,(MCS0)_2TX	19.12M	19M1D1D

OBW = 99% occupied bandwidth

Result

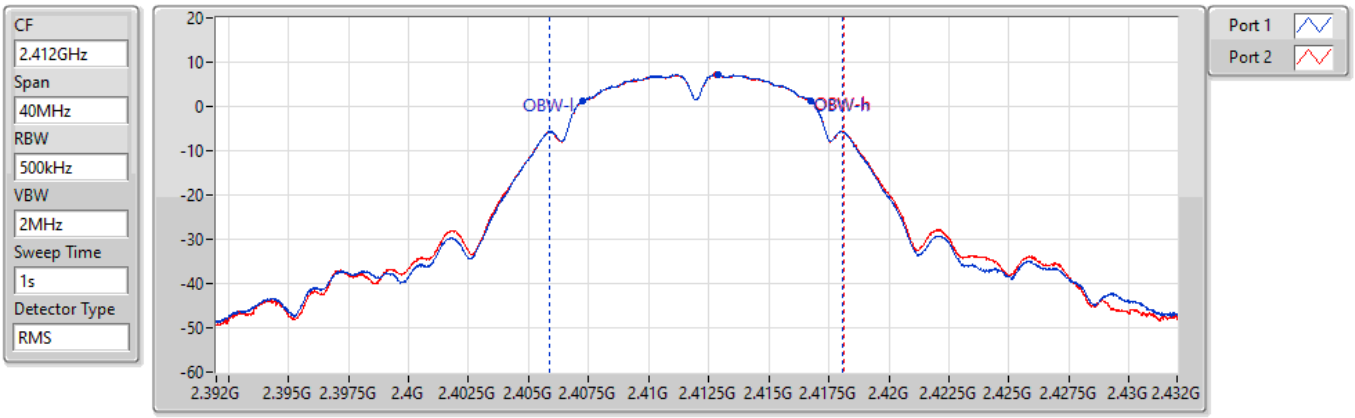
Mode	Result	Limit (Hz)	fl-OBW (Hz)	fh-OBW (Hz)	OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-
2412MHz_Tnom	Pass	2.4-2.4835G	2.405862G	2.418114G	12.252M
2442MHz_Tnom	Pass	2.4-2.4835G	2.435794G	2.448128G	12.334M
2472MHz_Tnom	Pass	2.4-2.4835G	2.465722G	2.478147G	12.425M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-
2412MHz_Tnom	Pass	2.4-2.4835G	2.403663G	2.420312G	16.65M
2442MHz_Tnom	Pass	2.4-2.4835G	2.433658G	2.450306G	16.643M
2472MHz_Tnom	Pass	2.4-2.4835G	2.463646G	2.480298G	16.644M
ax20_OFDMA_Nss1,(MCS0)_2TX	-	-	-	-	-
2412MHz_Tnom	Pass	2.4-2.4835G	2.402429G	2.421545G	19.115M
2442MHz_Tnom	Pass	2.4-2.4835G	2.432423G	2.451543G	19.117M
2472MHz_Tnom	Pass	2.4-2.4835G	2.462419G	2.481544G	19.12M

fl-OBW = fl lower edge 99% occupied bandwidth; fh-OBW = fh higher edge 99% occupied bandwidth; OBW = 99% occupied bandwidth;
N dB = 6dB down bandwidth

802.11b_Nss1,(1Mbps)_2TX EBW

2412MHz

27/07/2023

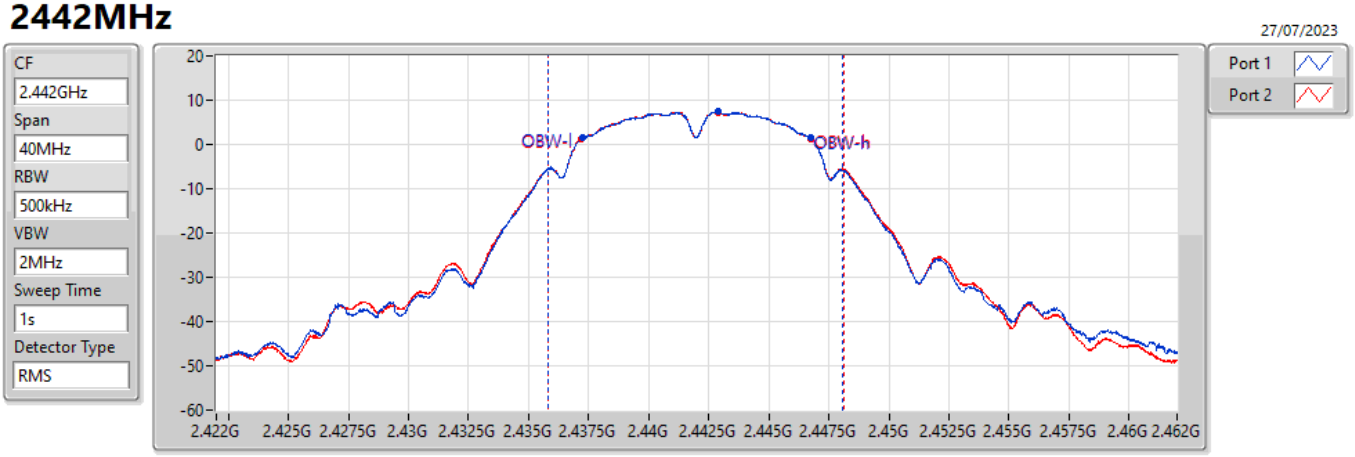


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
9.5M	2.40726G	2.41676G	12.171M	2.405886G	2.418056G	2.4-2.4835G	1
9.46M	2.40728G	2.41674G	12.252M	2.405862G	2.418114G	2.4-2.4835G	2

802.11b_Nss1,(1Mbps)_2TX EBW

2442MHz

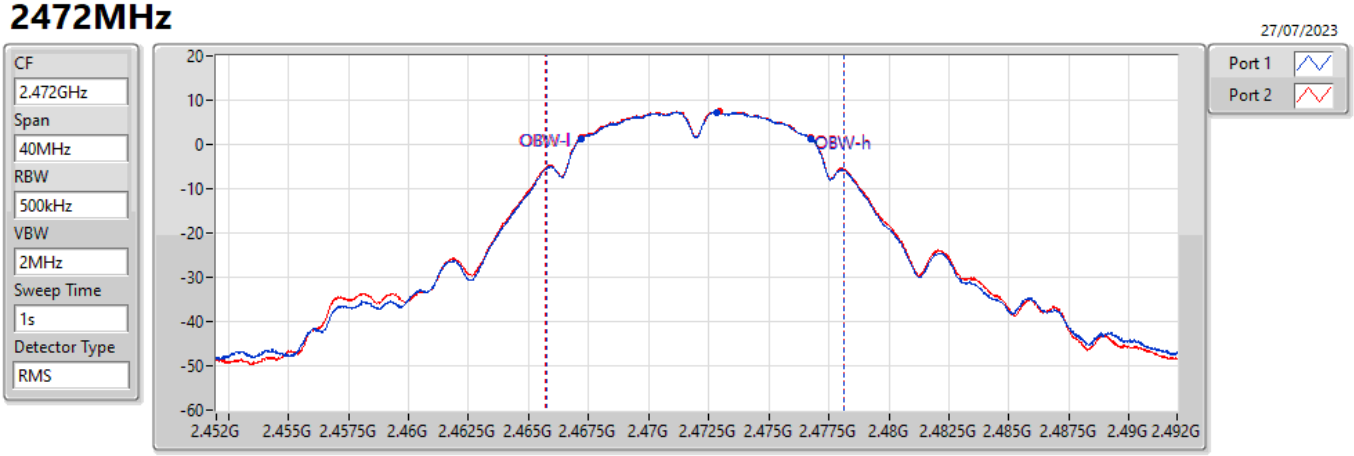
27/07/2023



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
9.46M	2.43728G	2.44674G	12.245M	2.435824G	2.44807G	2.4-2.4835G	1
9.56M	2.4372G	2.44676G	12.334M	2.435794G	2.448128G	2.4-2.4835G	2

802.11b_Nss1,(1Mbps)_2TX EBW

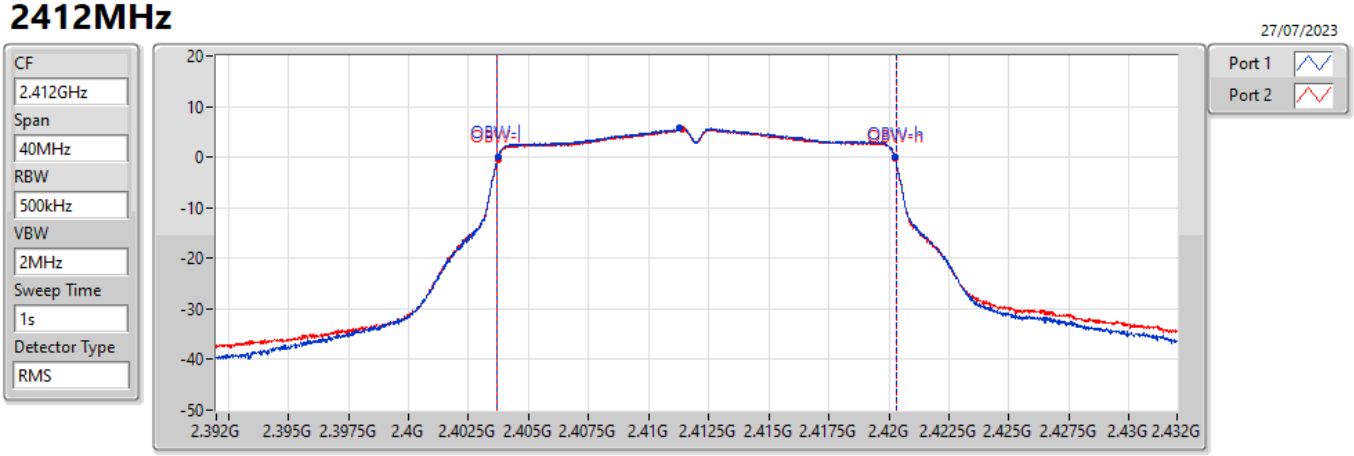
2472MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
9.56M	2.4672G	2.47676G	12.36M	2.465752G	2.478112G	2.4-2.4835G	1
9.58M	2.46718G	2.47676G	12.425M	2.465722G	2.478147G	2.4-2.4835G	2

802.11g_Nss1,(6Mbps)_2TX EBW

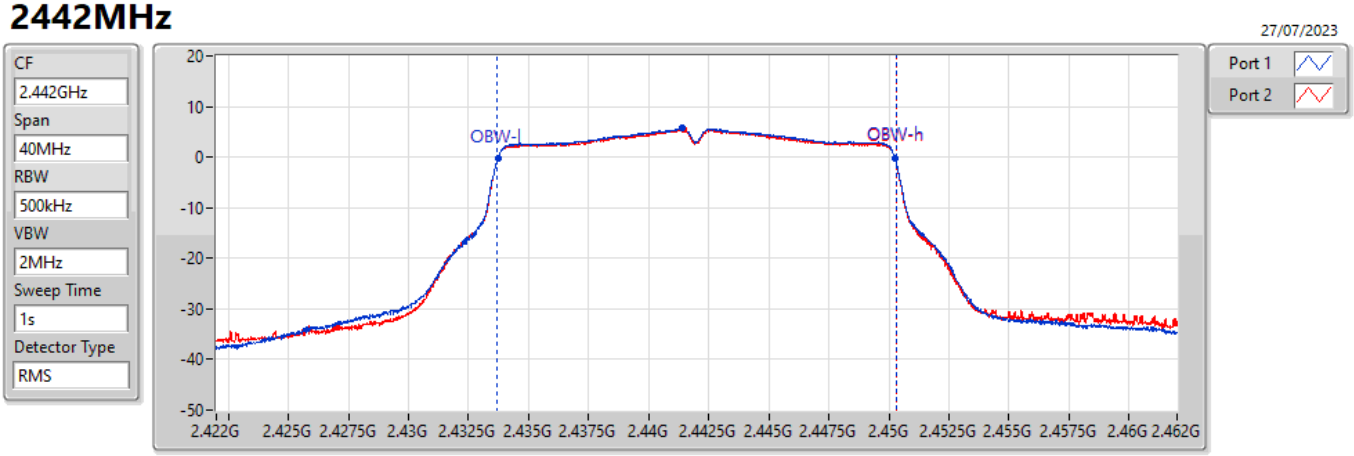
2412MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.5M	2.40374G	2.42024G	16.632M	2.403674G	2.420306G	2.4-2.4835G	1
16.54M	2.40372G	2.42026G	16.65M	2.403663G	2.420312G	2.4-2.4835G	2

802.11g_Nss1,(6Mbps)_2TX EBW

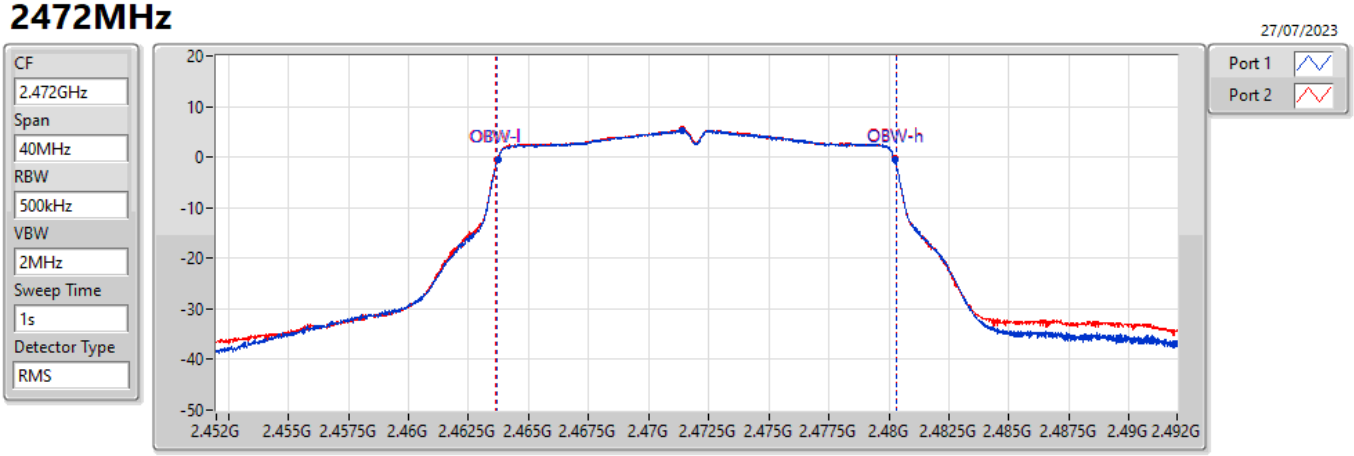
2442MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.54M	2.43372G	2.45026G	16.639M	2.433667G	2.450306G	2.4-2.4835G	1
16.52M	2.43372G	2.45024G	16.643M	2.433658G	2.450302G	2.4-2.4835G	2

802.11g_Nss1,(6Mbps)_2TX EBW

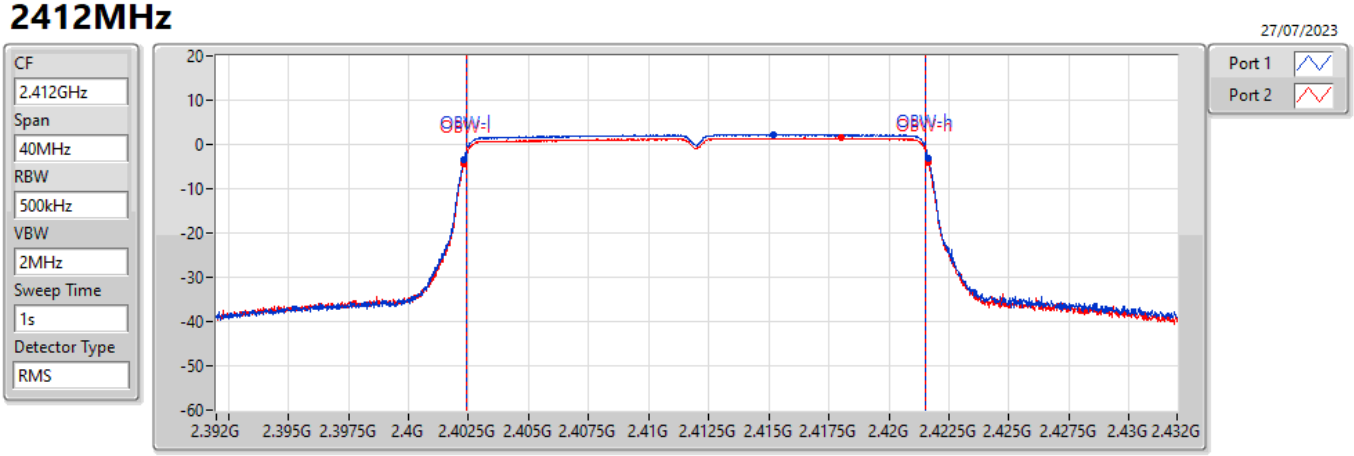
2472MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.52M	2.46372G	2.48024G	16.638M	2.463661G	2.480298G	2.4-2.4835G	1
16.54M	2.4637G	2.48024G	16.644M	2.463646G	2.48029G	2.4-2.4835G	2

ax20_OFDMA_Nss1,(MCS0)_2TX EBW

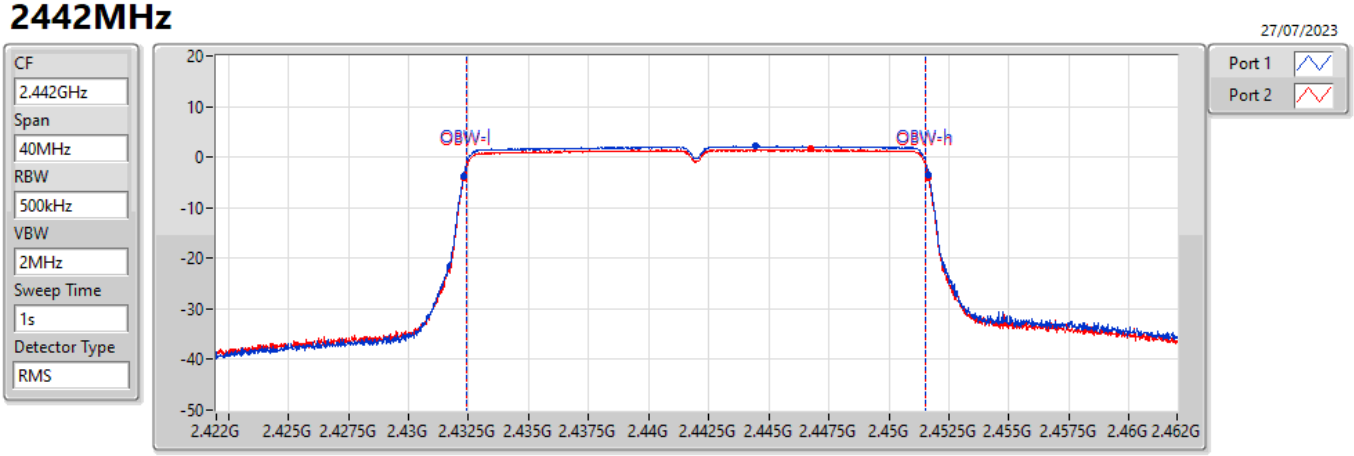
2412MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.36M	2.4023G	2.42166G	19.115M	2.402429G	2.421545G	2.4-2.4835G	1
19.36M	2.4023G	2.42166G	19.113M	2.40243G	2.421543G	2.4-2.4835G	2

ax20_OFDMA_Nss1,(MCS0)_2TX EBW

2442MHz

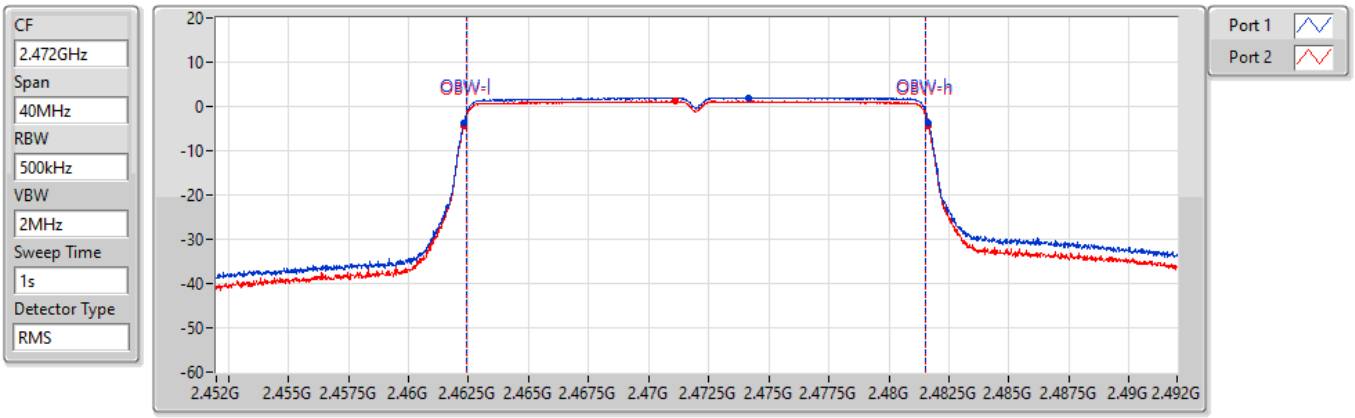


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.36M	2.4323G	2.45166G	19.117M	2.432426G	2.451543G	2.4-2.4835G	1
19.36M	2.4323G	2.45166G	19.117M	2.432423G	2.45154G	2.4-2.4835G	2

ax20_OFDMA_Nss1,(MCS0)_2TX EBW

2472MHz

27/07/2023



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.36M	2.4623G	2.48166G	19.12M	2.462425G	2.481544G	2.4-2.4835G	1
19.36M	2.4623G	2.48166G	19.116M	2.462419G	2.481535G	2.4-2.4835G	2

full RU configuration

Modulation Mode	Freq. (MHz)	Power Density (dBm/1MHz) e.i.r.p.	Limit (dBm/1MHz) e.i.r.p.	Results
11b	2412	3.85	14	Pass
11b	2442	3.30	14	Pass
11b	2472	4.46	14	Pass
11g	2412	1.28	14	Pass
11g	2442	2.14	14	Pass
11g	2472	2.19	14	Pass
ax HE20-OFDMA	2412	-1.25	14	Pass
ax HE20-OFDMA	2442	-1.99	14	Pass
ax HE20-OFDMA	2472	-2.53	14	Pass

partial RU configuration

Modulation Mode	Freq. (MHz)	Power Density (dBm/1MHz) e.i.r.p.	Limit (dBm/1MHz) e.i.r.p.	Results
ax HE20-OFDMA RU26	2412	5.34	14	Pass
ax HE20-OFDMA RU26	2442	6.33	14	Pass
ax HE20-OFDMA RU26	2472	5.96	14	Pass
ax HE20-OFDMA RU52	2412	3.38	14	Pass
ax HE20-OFDMA RU52	2442	3.67	14	Pass
ax HE20-OFDMA RU52	2472	3.76	14	Pass
ax HE20-OFDMA RU106	2412	0.80	14	Pass
ax HE20-OFDMA RU106	2442	1.85	14	Pass
ax HE20-OFDMA RU106	2472	1.31	14	Pass

full RU configuration

Modulation Mode	Freq. (MHz)	Power Density (dBm/1MHz) e.i.r.p.	Limit (dBm/1MHz) e.i.r.p.	Results
11b	2412	1.75	14	Pass
11b	2442	2.72	14	Pass
11b	2472	2.28	14	Pass
11g	2412	0.20	14	Pass
11g	2442	0.83	14	Pass
11g	2472	1.03	14	Pass
ax HE20-OFDMA	2412	-3.25	14	Pass
ax HE20-OFDMA	2442	-2.63	14	Pass
ax HE20-OFDMA	2472	-3.17	14	Pass

partial RU configuration

Modulation Mode	Freq. (MHz)	Power Density (dBm/1MHz) e.i.r.p.	Limit (dBm/1MHz) e.i.r.p.	Results
ax HE20-OFDMA RU26	2412	5.34	14	Pass
ax HE20-OFDMA RU26	2442	6.33	14	Pass
ax HE20-OFDMA RU26	2472	5.96	14	Pass
ax HE20-OFDMA RU52	2412	3.38	14	Pass
ax HE20-OFDMA RU52	2442	3.67	14	Pass
ax HE20-OFDMA RU52	2472	3.76	14	Pass
ax HE20-OFDMA RU106	2412	0.80	14	Pass
ax HE20-OFDMA RU106	2442	1.85	14	Pass
ax HE20-OFDMA RU106	2472	1.31	14	Pass

Frequency Range (MHz)					
Condition	**Modulation Mode**	**Freq. (MHz)**	**F_L and F_H**	**Limit**	**Results**
$T_{nom}V_{nom}$	11b	2412	2405.86	2400.0	Pass
$T_{min}V_{max}$	11b	2412	2405.74	2400.0	Pass
$T_{min}V_{min}$	11b	2412	2405.74	2400.0	Pass
$T_{max}V_{max}$	11b	2412	2405.98	2400.0	Pass
$T_{max}V_{min}$	11b	2412	2405.98	2400.0	Pass
$T_{nom}V_{nom}$	11b	2472	2478.15	2483.5	Pass
$T_{min}V_{max}$	11b	2472	2478.32	2483.5	Pass
$T_{min}V_{min}$	11b	2472	2478.32	2483.5	Pass
$T_{max}V_{max}$	11b	2472	2477.98	2483.5	Pass
$T_{max}V_{min}$	11b	2472	2477.98	2483.5	Pass

Frequency Range (MHz)					
Condition	**Modulation Mode**	**Freq. (MHz)**	**F_L and F_H (MHz)**	**Limit**	**Results**
$T_{nom}V_{nom}$	11g	2412	2403.66	2400.0	Pass
$T_{min}V_{max}$	11g	2412	2403.46	2400.0	Pass
$T_{min}V_{min}$	11g	2412	2403.46	2400.0	Pass
$T_{max}V_{max}$	11g	2412	2403.79	2400.0	Pass
$T_{max}V_{min}$	11g	2412	2403.79	2400.0	Pass
$T_{nom}V_{nom}$	11g	2472	2480.30	2483.5	Pass
$T_{min}V_{max}$	11g	2472	2480.46	2483.5	Pass
$T_{min}V_{min}$	11g	2472	2480.46	2483.5	Pass
$T_{max}V_{max}$	11g	2472	2480.21	2483.5	Pass
$T_{max}V_{min}$	11g	2472	2480.21	2483.5	Pass

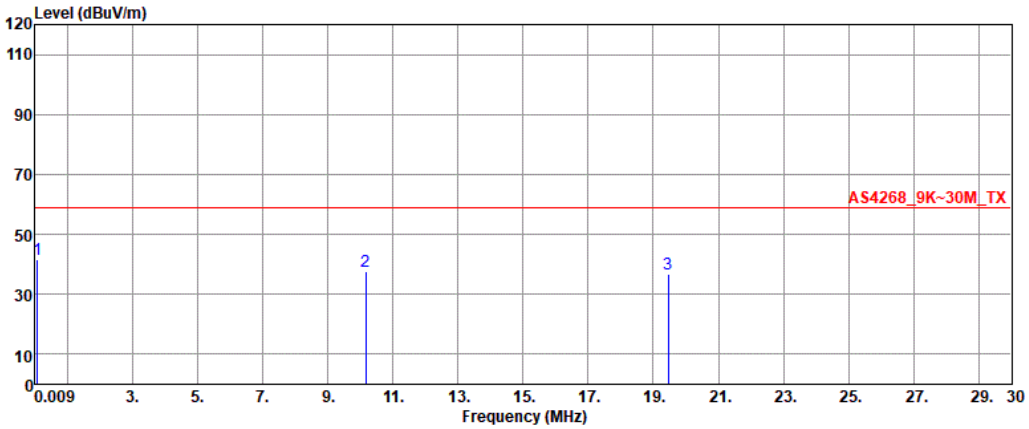
Frequency Range (MHz)					
Condition	**Modulation Mode**	**Freq. (MHz)**	**F_L and F_H (MHz)**	**Limit**	**Results**
$T_{nom}V_{nom}$	ax HE20-OFDMA	2412	2402.43	2400.0	Pass
$T_{min}V_{max}$	ax HE20-OFDMA	2412	2402.23	2400.0	Pass
$T_{min}V_{min}$	ax HE20-OFDMA	2412	2402.23	2400.0	Pass
$T_{max}V_{max}$	ax HE20-OFDMA	2412	2402.65	2400.0	Pass
$T_{max}V_{min}$	ax HE20-OFDMA	2412	2402.65	2400.0	Pass
$T_{nom}V_{nom}$	ax HE20-OFDMA	2472	2481.54	2483.5	Pass
$T_{min}V_{max}$	ax HE20-OFDMA	2472	2481.67	2483.5	Pass
$T_{min}V_{min}$	ax HE20-OFDMA	2472	2481.67	2483.5	Pass
$T_{max}V_{max}$	ax HE20-OFDMA	2472	2481.41	2483.5	Pass
$T_{max}V_{min}$	ax HE20-OFDMA	2472	2481.41	2483.5	Pass

Ant: TWX-100BRSAX-2001

Emissions (≤ 30MHz)

Modulation	11b	**Test Freq. (MHz)**	2412
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65

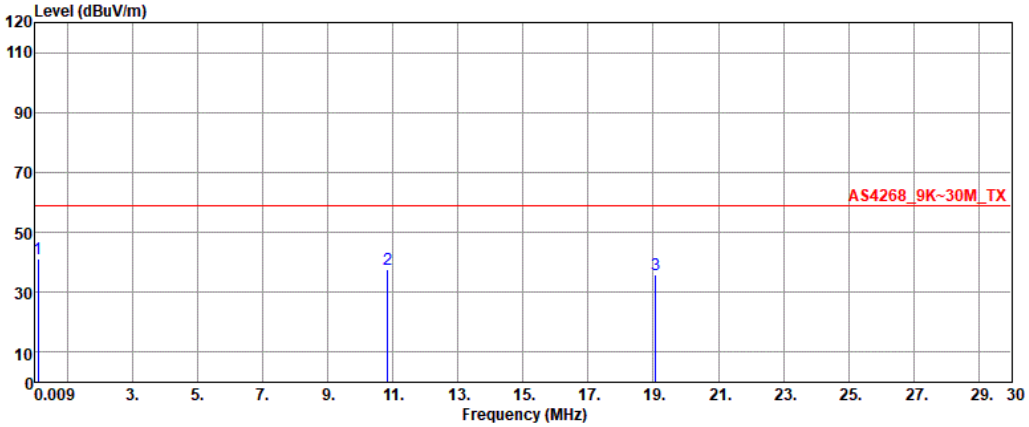


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.07	41.49	59.00	-17.51	19.36	22.13
2	10.16	37.73	59.00	-21.27	21.24	16.49
3	19.45	36.62	59.00	-22.38	21.92	14.70

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	11b	**Test Freq. (MHz)**	2472
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65

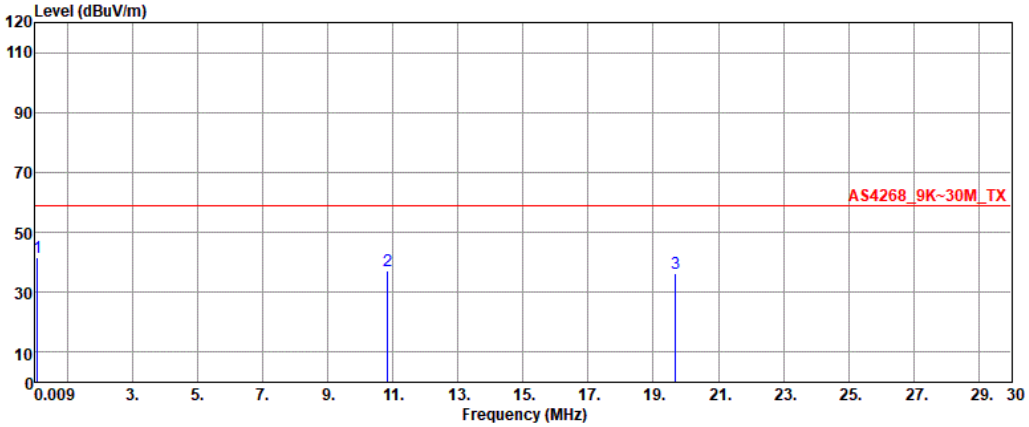


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.10	41.15	59.00	-17.85	18.94	22.21
2	10.83	37.76	59.00	-21.24	21.31	16.45
3	19.07	36.02	59.00	-22.98	21.89	14.13

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	11g	**Test Freq. (MHz)**	2412
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65

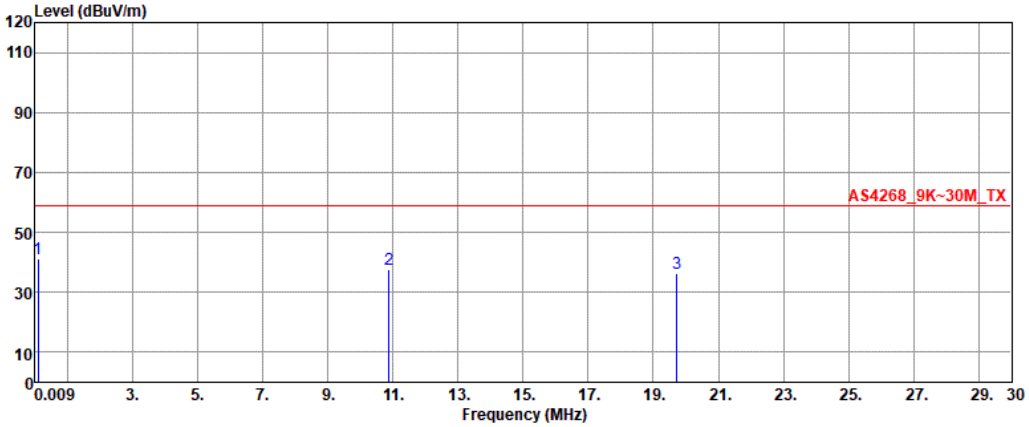


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.06	41.73	59.00	-17.27	19.64	22.09
2	10.83	37.37	59.00	-21.63	21.31	16.06
3	19.68	36.19	59.00	-22.81	21.93	14.26

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	11g	**Test Freq. (MHz)**	2472
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65

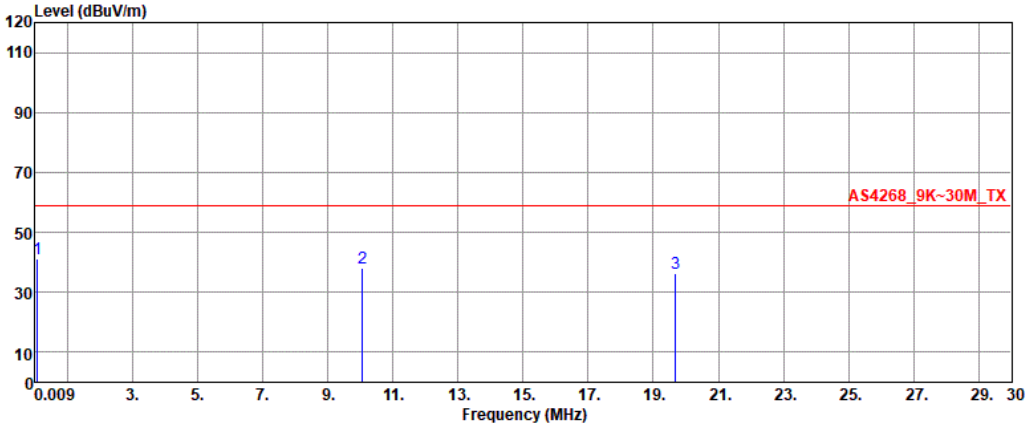


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.09	41.13	59.00	-17.87	19.13	22.00
2	10.87	37.45	59.00	-21.55	21.31	16.14
3	19.73	36.33	59.00	-22.67	21.93	14.40

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20-OFDMA	**Test Freq. (MHz)**	2412
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65

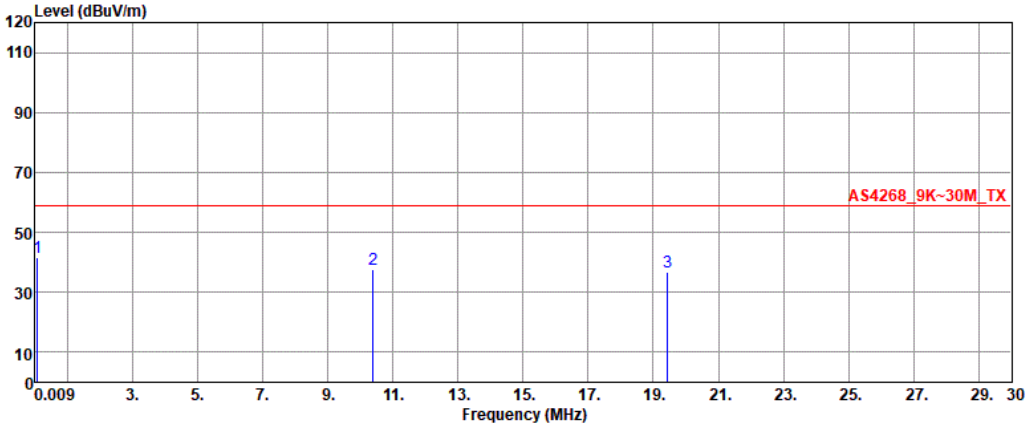


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.06	41.14	59.00	-17.86	19.66	21.48
2	10.06	37.93	59.00	-21.07	21.24	16.69
3	19.69	36.48	59.00	-22.52	21.93	14.55

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20-OFDMA	**Test Freq. (MHz)**	2472
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.08	41.54	59.00	-17.46	19.27	22.27
2	10.39	37.77	59.00	-21.23	21.27	16.50
3	19.43	36.94	59.00	-22.06	21.90	15.04

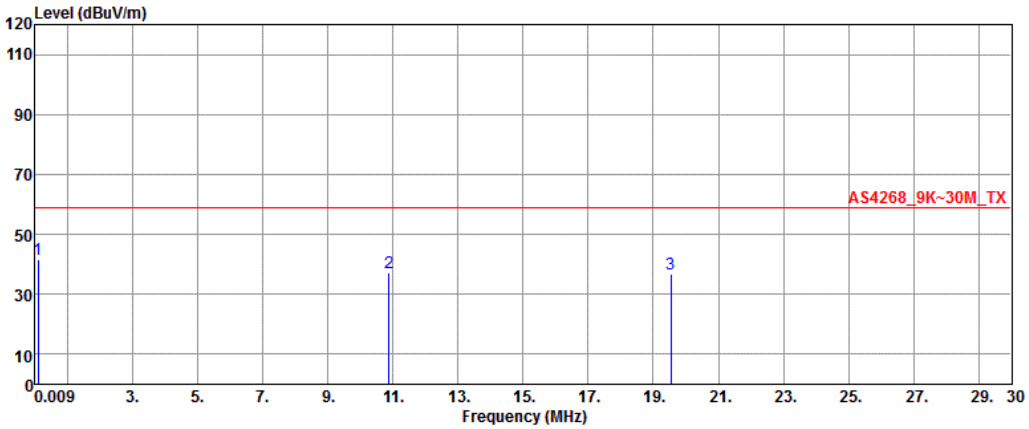
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Ant: FlexMIMO 6E

Emissions (≤ 30MHz)

Modulation	11b	Test Freq. (MHz)	2412
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65

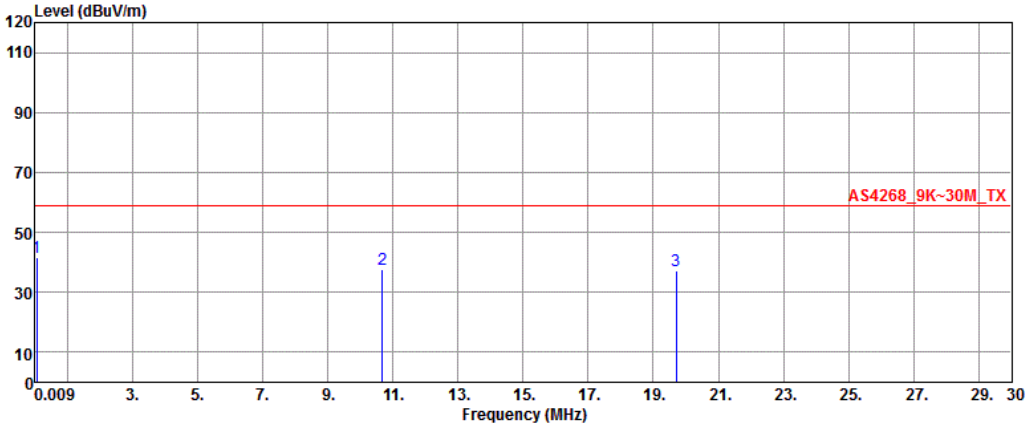


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.08	41.51	59.00	-17.49	19.17	22.34
2	10.87	37.32	59.00	-21.68	21.31	16.01
3	19.54	36.68	59.00	-22.32	21.92	14.76

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	11b	**Test Freq. (MHz)**	2472
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65

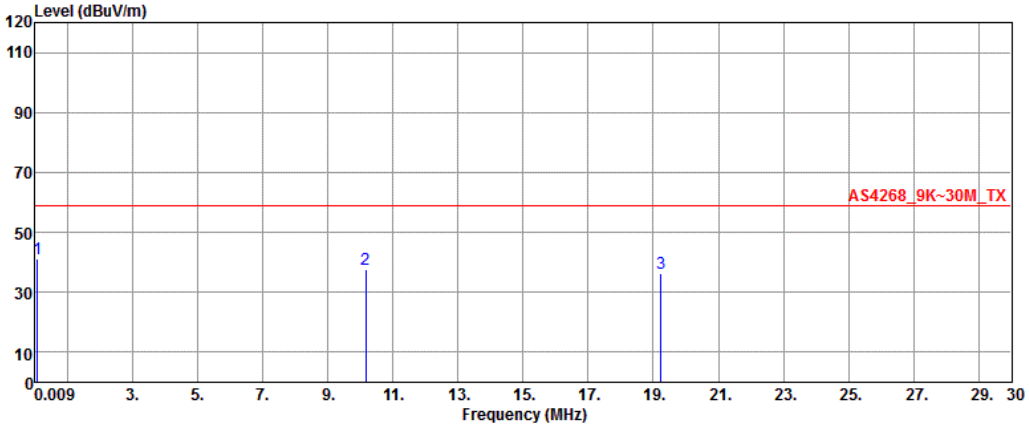


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.06	41.41	59.00	-17.59	19.72	21.69
2	10.67	37.60	59.00	-21.40	21.30	16.30
3	19.70	36.98	59.00	-22.02	21.93	15.05

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	11g	**Test Freq. (MHz)**	2412
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65

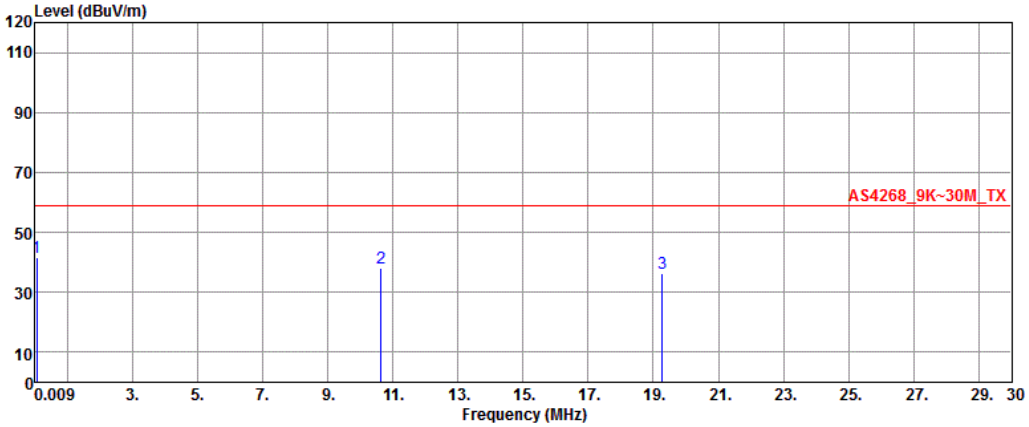


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.07	41.18	59.00	-17.82	19.36	21.82
2	10.16	37.84	59.00	-21.16	21.24	16.60
3	19.23	36.37	59.00	-22.63	21.90	14.47

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	11g	**Test Freq. (MHz)**	2472
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65

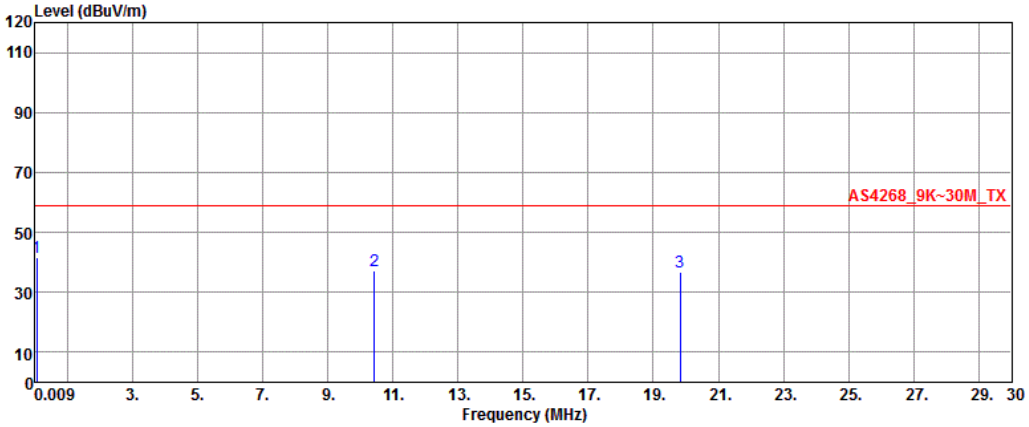


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.05	41.78	59.00	-17.22	19.86	21.92
2	10.63	37.96	59.00	-21.04	21.29	16.67
3	19.28	36.14	59.00	-22.86	21.90	14.24

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20-OFDMA	**Test Freq. (MHz)**	2412
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65

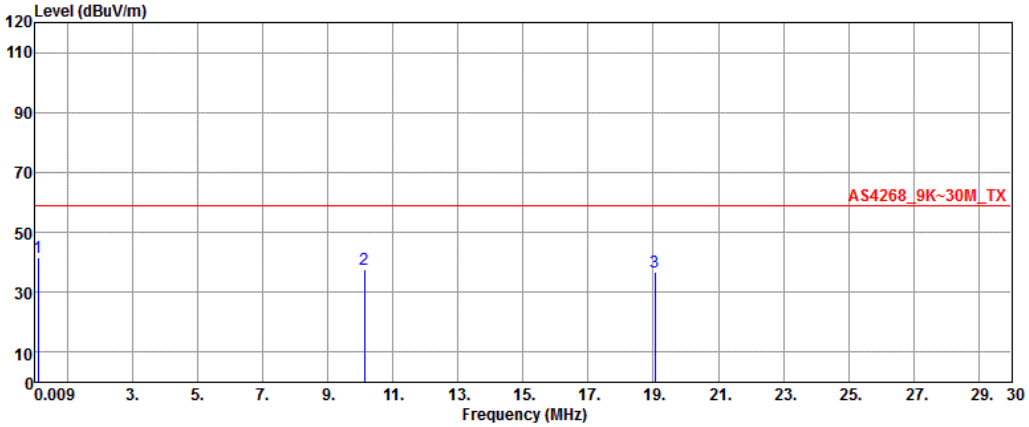


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.06	41.79	59.00	-17.21	19.83	21.96
2	10.43	37.18	59.00	-21.82	21.28	15.90
3	19.82	36.63	59.00	-22.37	21.93	14.70

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20-OFDMA	**Test Freq. (MHz)**	2472
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.10	41.57	59.00	-17.43	18.95	22.62
2	10.12	37.46	59.00	-21.54	21.24	16.22
3	19.05	36.91	59.00	-22.09	21.89	15.02

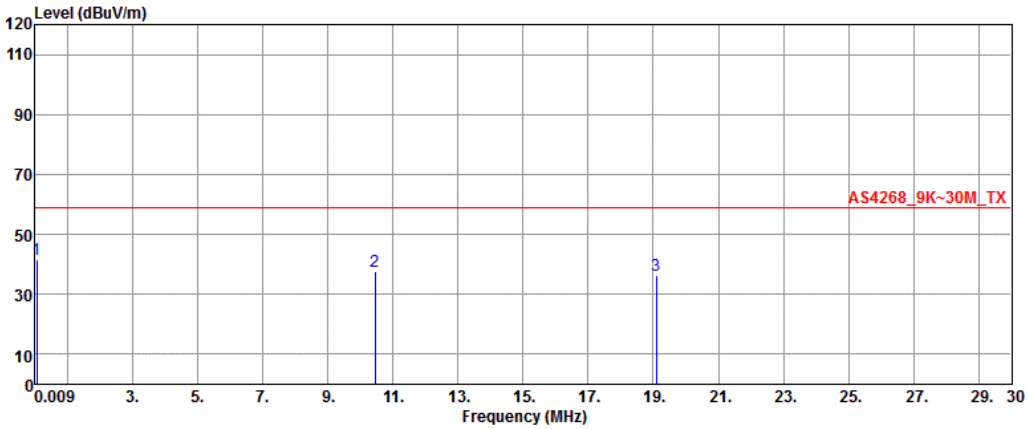
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Ant: Mini NanoBlade Flex 6 GHz

Emissions (≤ 30MHz)

Modulation	11b	**Test Freq. (MHz)**	2412
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65

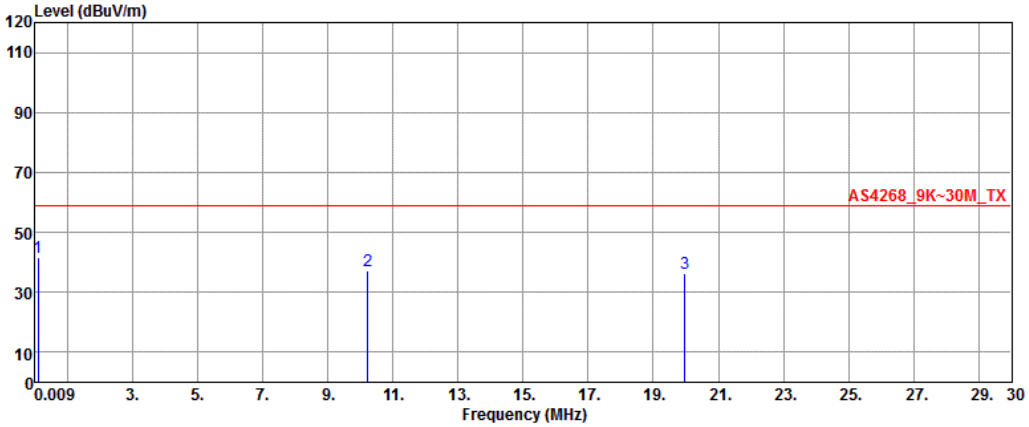


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.06	41.76	59.00	-17.24	19.74	22.02
2	10.44	37.57	59.00	-21.43	21.28	16.29
3	19.09	36.43	59.00	-22.57	21.89	14.54

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	11b	**Test Freq. (MHz)**	2472
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65

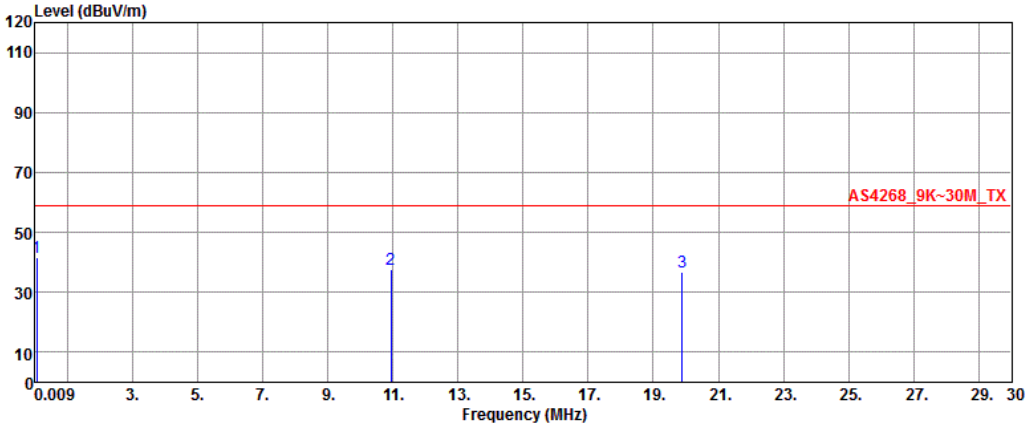


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.09	41.51	59.00	-17.49	19.04	22.47
2	10.23	37.37	59.00	-21.63	21.25	16.12
3	19.96	36.30	59.00	-22.70	21.94	14.36

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	11g	**Test Freq. (MHz)**	2412
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65

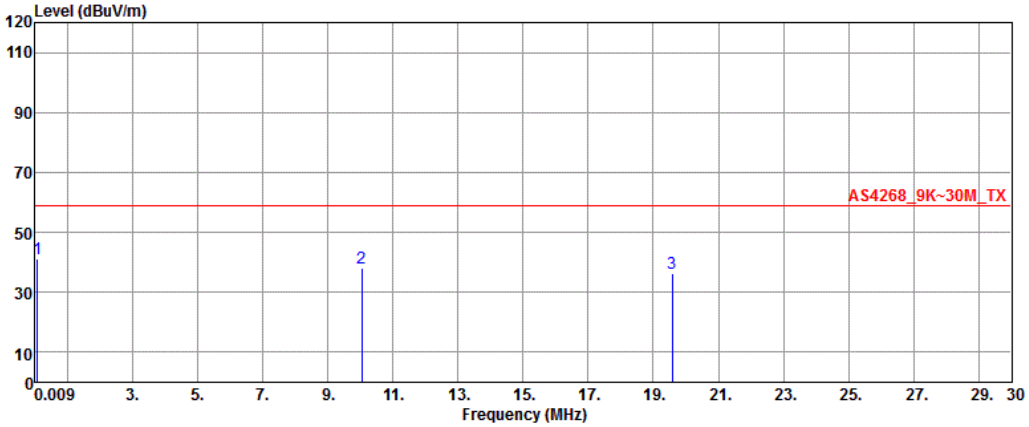


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.06	41.72	59.00	-17.28	19.74	21.98
2	10.94	37.43	59.00	-21.57	21.32	16.11
3	19.89	36.61	59.00	-22.39	21.94	14.67

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	11g	**Test Freq. (MHz)**	2472
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65

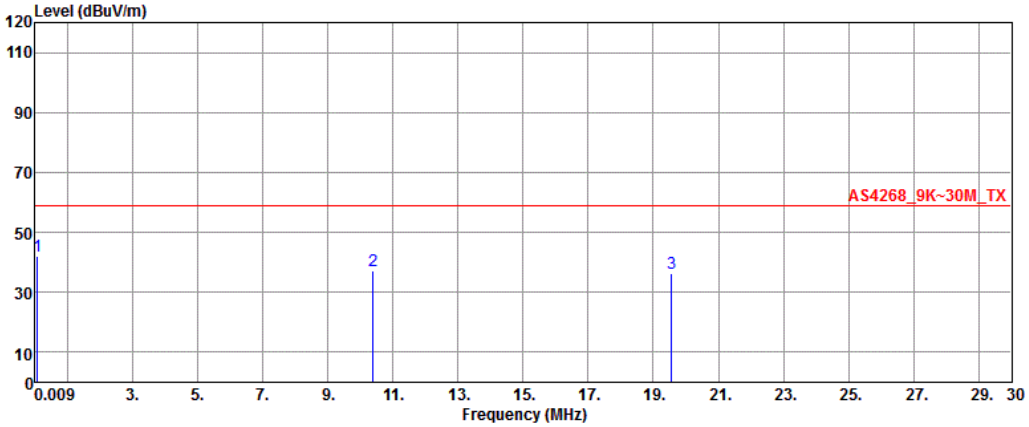


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.07	41.35	59.00	-17.65	19.40	21.95
2	10.04	37.96	59.00	-21.04	21.23	16.73
3	19.58	36.24	59.00	-22.76	21.92	14.32

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20-OFDMA	**Test Freq. (MHz)**	2412
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65

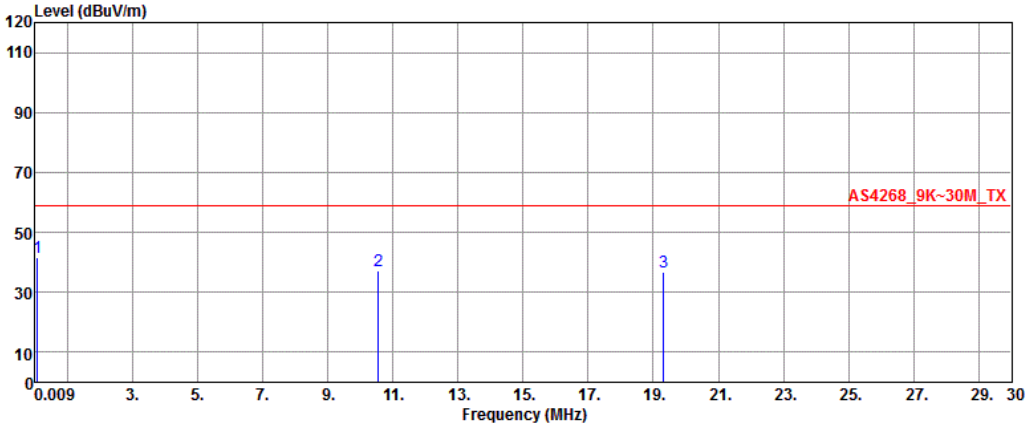


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.07	41.88	59.00	-17.12	19.54	22.34
2	10.39	37.06	59.00	-21.94	21.27	15.79
3	19.57	36.44	59.00	-22.56	21.92	14.52

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20-OFDMA	**Test Freq. (MHz)**	2472
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.06	41.41	59.00	-17.59	19.66	21.75
2	10.56	37.28	59.00	-21.72	21.29	15.99
3	19.32	36.90	59.00	-22.10	21.90	15.00

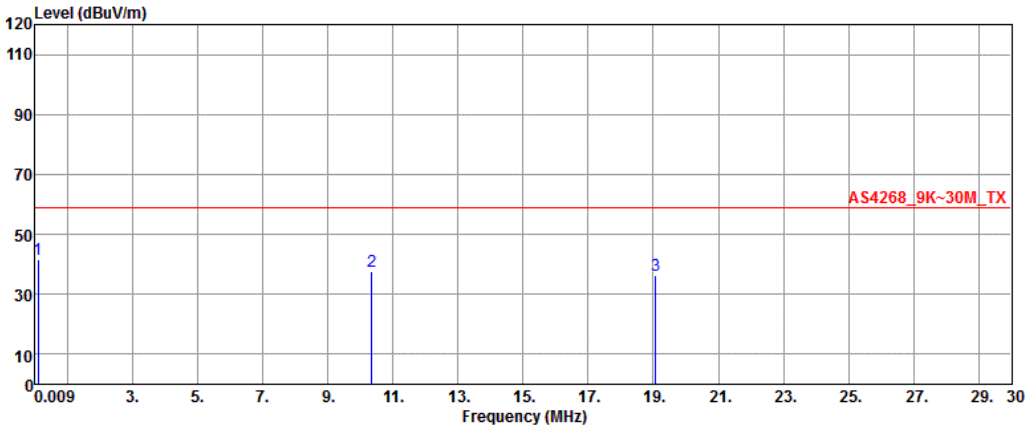
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Ant: FlexPIFA 6E

Emissions (≤ 30MHz)

Modulation	11b	**Test Freq. (MHz)**	2412
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65

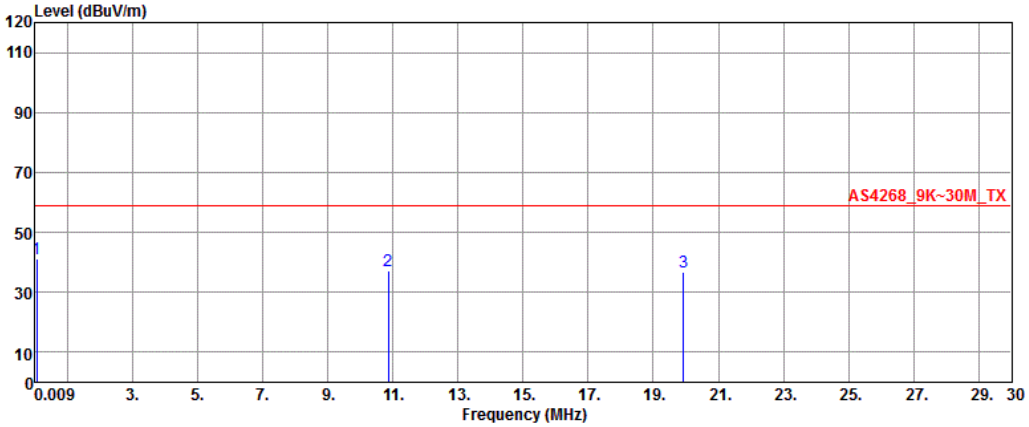


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.08	41.57	59.00	-17.43	19.22	22.35
2	10.34	37.47	59.00	-21.53	21.26	16.21
3	19.08	36.20	59.00	-22.80	21.89	14.31

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	11b	**Test Freq. (MHz)**	2472
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65

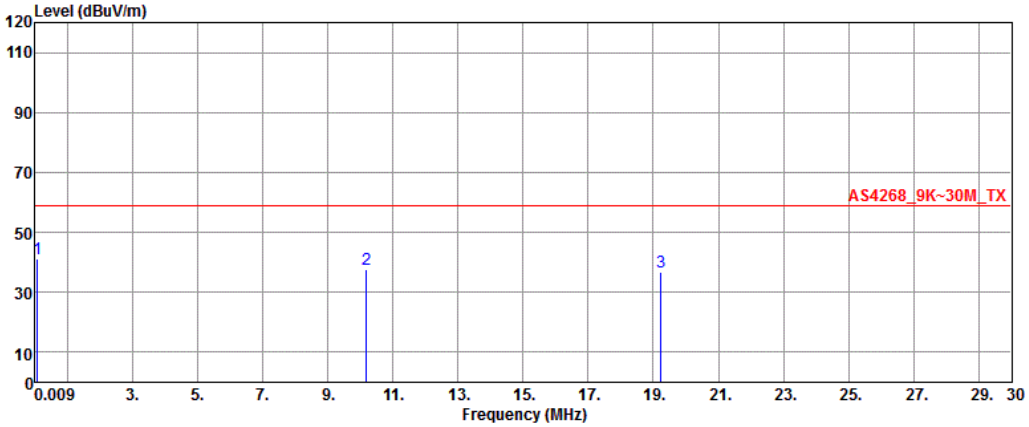


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.05	41.28	59.00	-17.72	19.92	21.36
2	10.86	37.14	59.00	-21.86	21.31	15.83
3	19.92	36.63	59.00	-22.37	21.94	14.69

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	11g	**Test Freq. (MHz)**	2412
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65

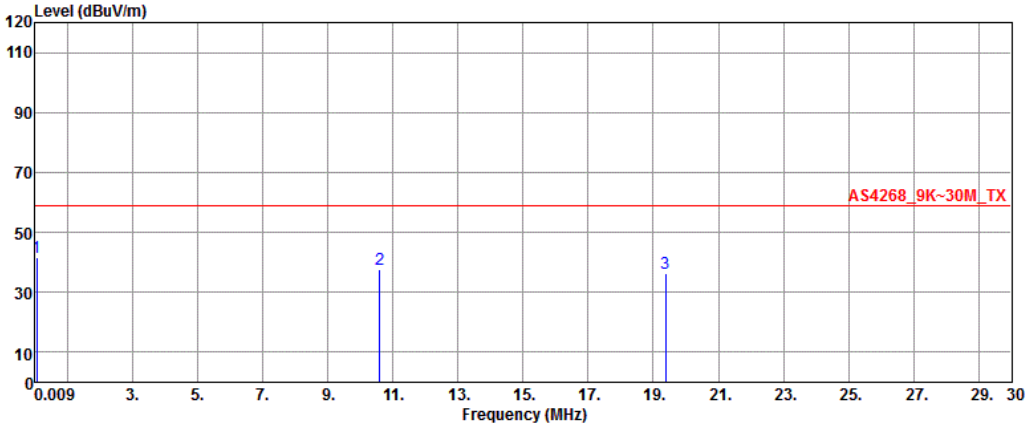


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.08	41.25	59.00	-17.75	19.27	21.98
2	10.18	37.75	59.00	-21.25	21.25	16.50
3	19.24	36.86	59.00	-22.14	21.90	14.96

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	11g	**Test Freq. (MHz)**	2472
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65

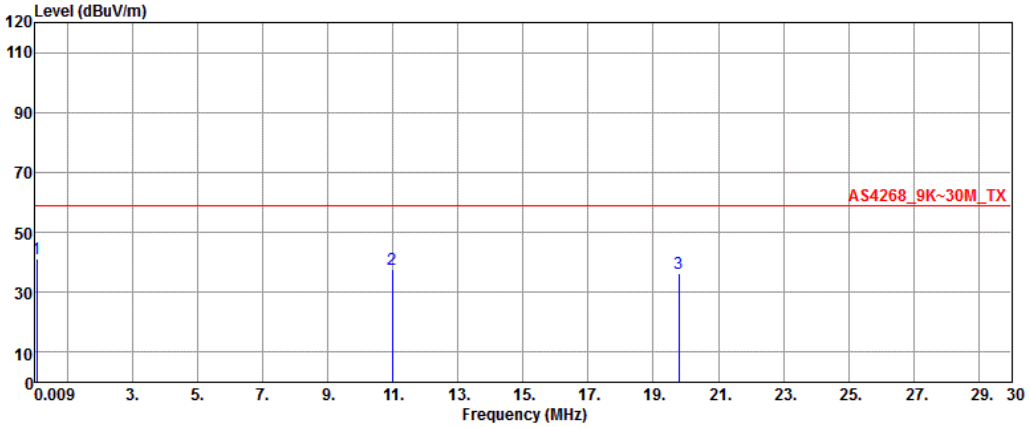


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.05	41.52	59.00	-17.48	19.89	21.63
2	10.60	37.49	59.00	-21.51	21.29	16.20
3	19.37	36.15	59.00	-22.85	21.90	14.25

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20-OFDMA	**Test Freq. (MHz)**	2412
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65

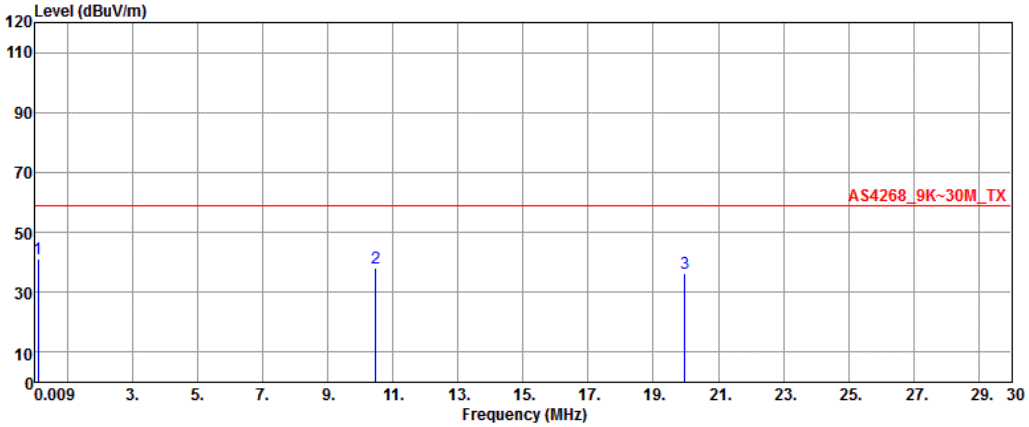


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.05	41.14	59.00	-17.86	19.98	21.16
2	10.98	37.63	59.00	-21.37	21.32	16.31
3	19.79	36.24	59.00	-22.76	21.93	14.31

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20-OFDMA	**Test Freq. (MHz)**	2472
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.08	41.15	59.00	-17.85	19.20	21.95
2	10.46	37.88	59.00	-21.12	21.28	16.60
3	19.96	36.36	59.00	-22.64	21.94	14.42

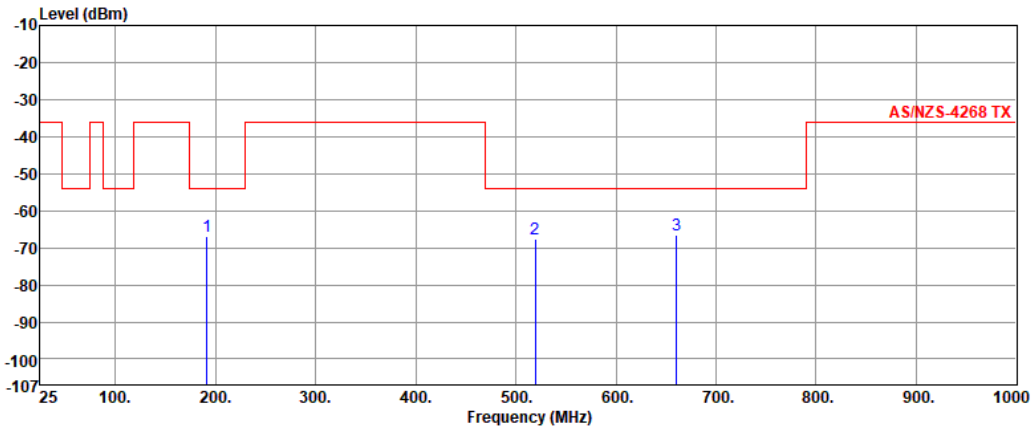
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

full RU configuration

Emissions (25MHz ~ 1GHz)

Modulation	11g	**Test Freq. (MHz)**	2412
Polarization	Horizontal		

Test By :Hugo Zhen Temperature:25 Humidity(%):64

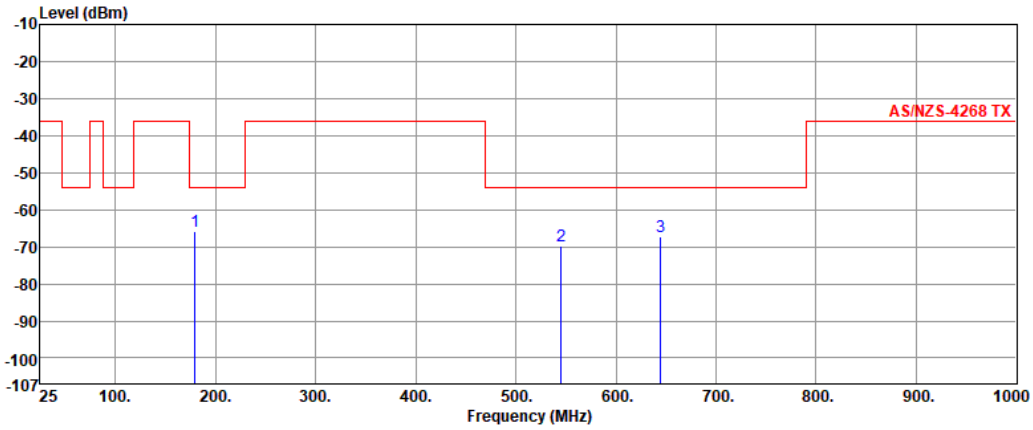


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	191.43	-67.05	-54.00	-13.05	-4.23	-62.82
2	519.54	-67.52	-54.00	-13.52	4.66	-72.18
3	660.82	-66.39	-54.00	-12.39	6.74	-73.13

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11g	**Test Freq. (MHz)**	2412
Polarization	Vertical		

Test By :Hugo Zhen Temperature:25 Humidity(%):64

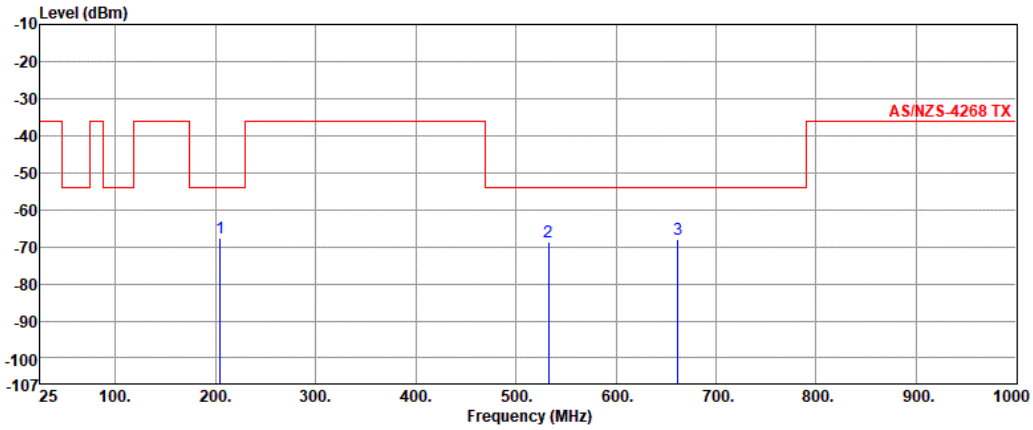


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	179.68	-65.85	-54.00	-11.85	-3.11	-62.74
2	545.07	-69.94	-54.00	-15.94	4.92	-74.86
3	644.60	-67.12	-54.00	-13.12	7.26	-74.38

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11g	**Test Freq. (MHz)**	2472
Polarization	Horizontal		

Test By :Hugo Zhen Temperature:25 Humidity(%):64

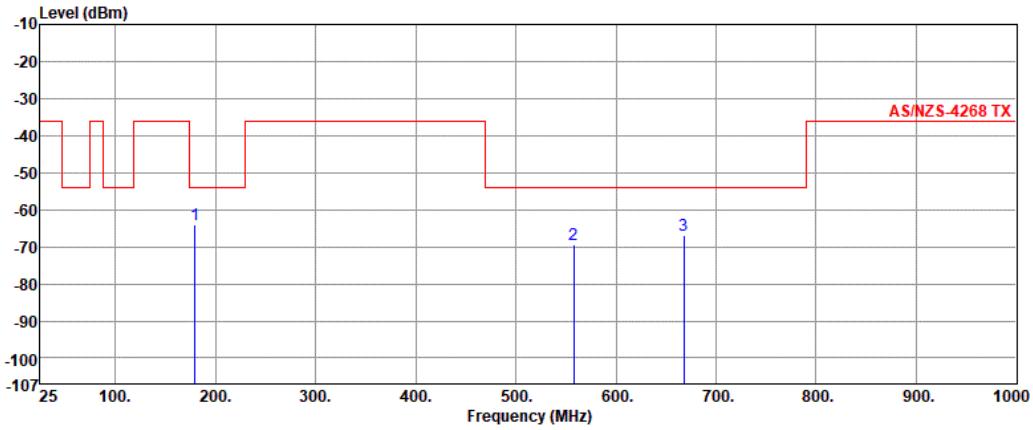


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	204.31	-67.63	-54.00	-13.63	-4.47	-63.16
2	532.55	-68.75	-54.00	-14.75	4.96	-73.71
3	662.01	-67.81	-54.00	-13.81	6.77	-74.58

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11g	**Test Freq. (MHz)**	2472
Polarization	Vertical		

Test By :Hugo Zhen Temperature:25 Humidity(%):64

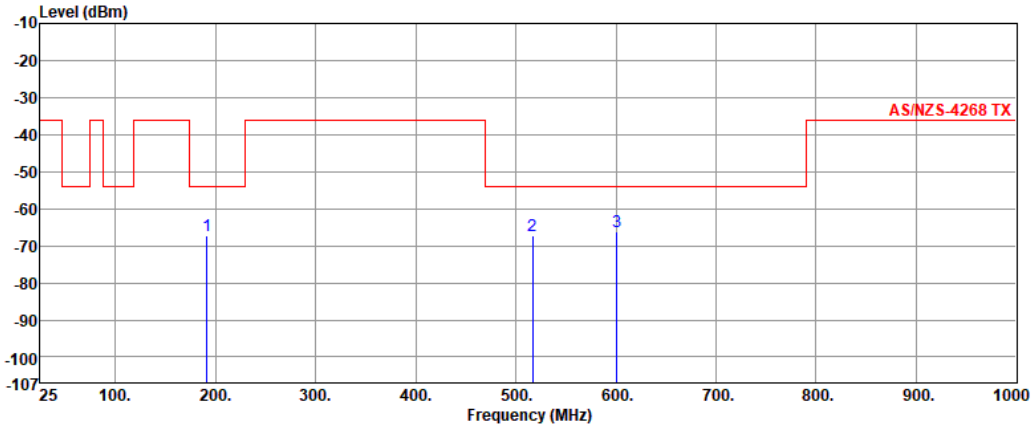


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	179.57	-64.12	-54.00	-10.12	-3.09	-61.03
2	557.80	-69.45	-54.00	-15.45	5.47	-74.92
3	667.62	-67.05	-54.00	-13.05	7.51	-74.56

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA	**Test Freq. (MHz)**	2412
Polarization	Horizontal		

Test By :Hugo Zhen Temperature:25 Humidity(%):64

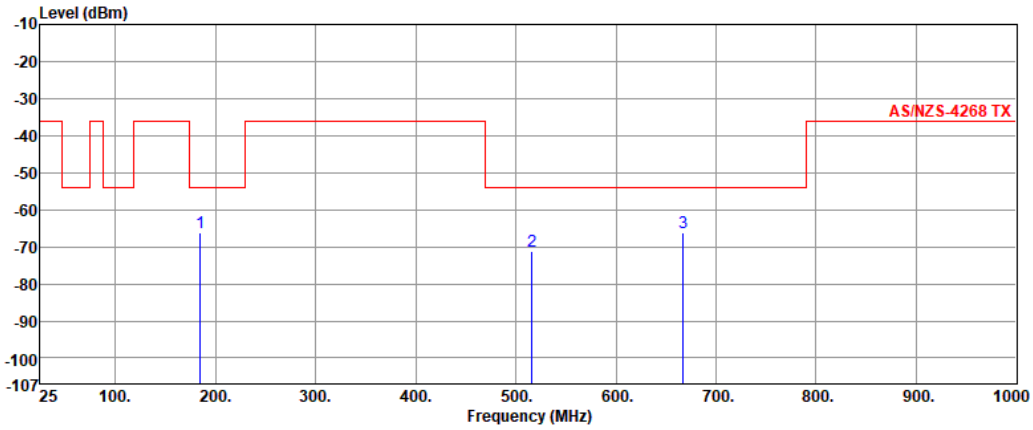


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	191.16	-67.19	-54.00	-13.19	-4.19	-63.00
2	516.50	-67.11	-54.00	-13.11	4.59	-71.70
3	601.12	-66.30	-54.00	-12.30	6.36	-72.66

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA	**Test Freq. (MHz)**	2412
Polarization	Vertical		

Test By :Hugo Zhen Temperature:25 Humidity(%):64

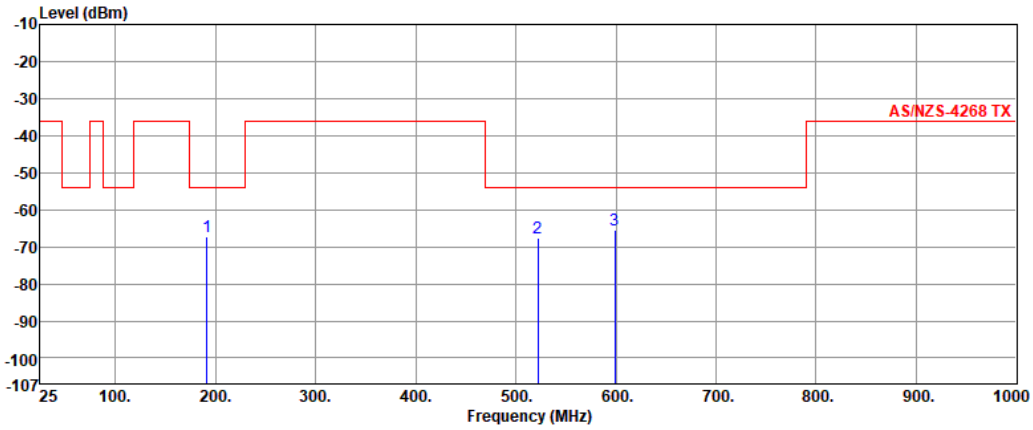


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	184.57	-66.13	-54.00	-12.13	-4.11	-62.02
2	516.38	-71.21	-54.00	-17.21	3.85	-75.06
3	667.54	-66.33	-54.00	-12.33	7.51	-73.84

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA	**Test Freq. (MHz)**	2472
Polarization	Horizontal		

Test By :Hugo Zhen Temperature:25 Humidity(%):64

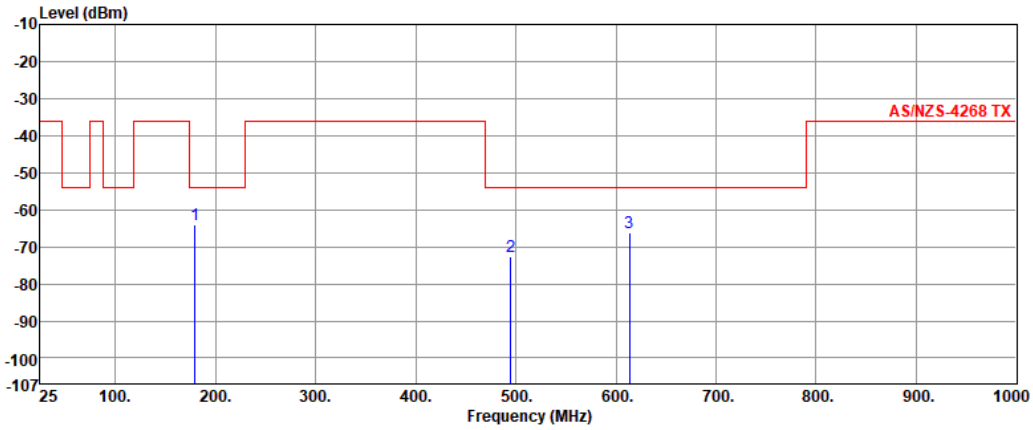


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	191.45	-67.41	-54.00	-13.41	-4.23	-63.18
2	521.87	-67.61	-54.00	-13.61	4.69	-72.30
3	599.15	-65.60	-54.00	-11.60	6.32	-71.92

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA	**Test Freq. (MHz)**	2472
Polarization	Vertical		

Test By :Hugo Zhen Temperature:25 Humidity(%):64



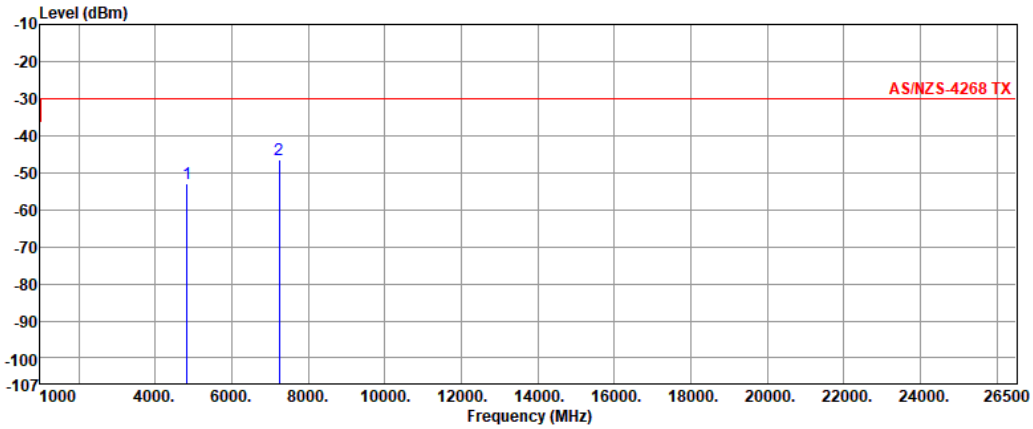
	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	179.26	-64.02	-54.00	-10.02	-3.02	-61.00
2	495.21	-72.81	-54.00	-18.81	3.70	-76.51
3	613.68	-66.05	-54.00	-12.05	6.53	-72.58

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Emissions (Above 1GHz) for 802.11b

Modulation	11b	**Test Freq. (MHz)**	2412
Polarization	Horizontal		

Test By :Hugo Zhen Temperature:25 Humidity(%):64

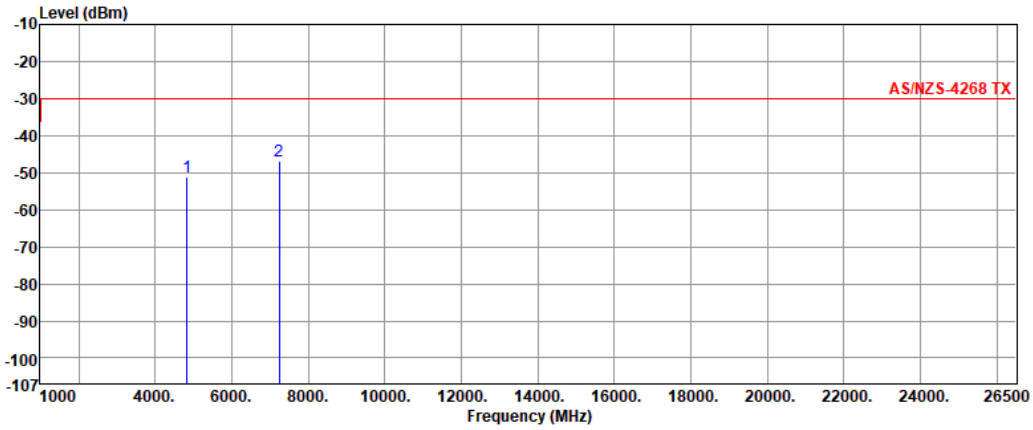


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4824.31	-52.94	-30.00	-22.94	13.76	-66.70
2	7236.16	-46.33	-30.00	-16.33	19.13	-65.46

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11b	**Test Freq. (MHz)**	2412
Polarization	Vertical		

Test By :Hugo Zhen Temperature:25 Humidity(%):64

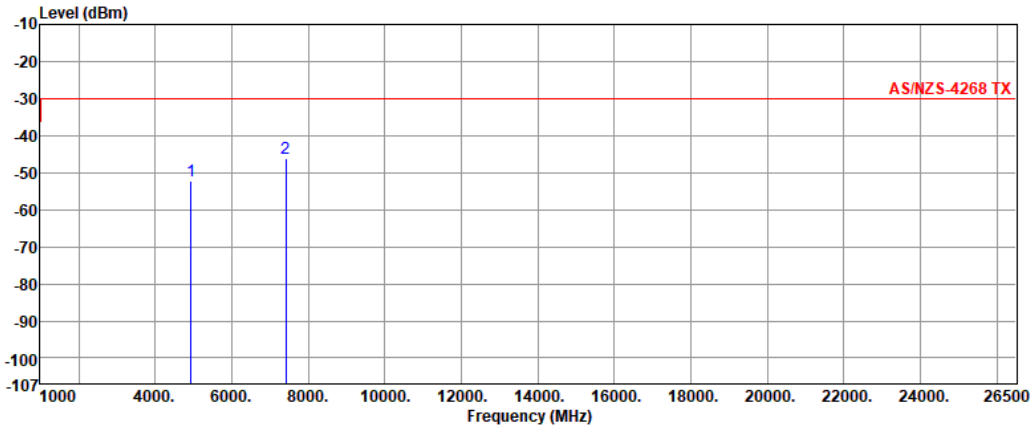


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4824.42	-51.28	-30.00	-21.28	13.70	-64.98
2	7236.25	-46.72	-30.00	-16.72	18.95	-65.67

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11b	**Test Freq. (MHz)**	2472
Polarization	Horizontal		

Test By :Hugo Zhen Temperature:25 Humidity(%):64

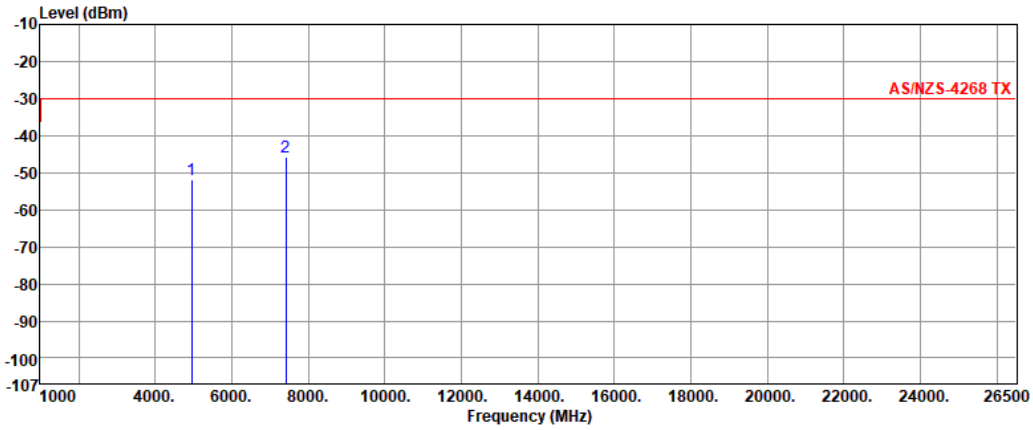


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4944.04	-52.30	-30.00	-22.30	13.85	-66.15
2	7416.28	-46.32	-30.00	-16.32	19.38	-65.70

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11b	**Test Freq. (MHz)**	2472
Polarization	Vertical		

Test By :Hugo Zhen Temperature:25 Humidity(%):64



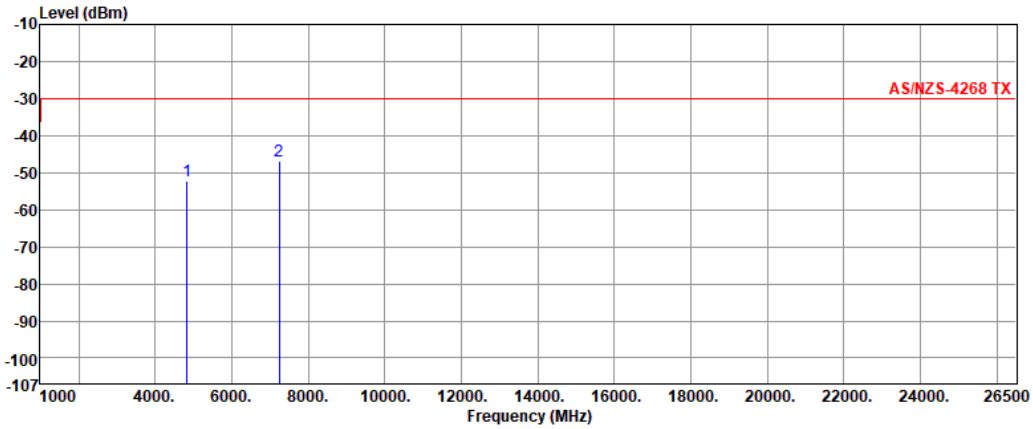
	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4944.11	-52.03	-30.00	-22.03	13.32	-65.35
2	7416.38	-45.74	-30.00	-15.74	19.51	-65.25

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Emissions (Above 1GHz) for 802.11g

Modulation	11g	**Test Freq. (MHz)**	2412
Polarization	Horizontal		

Test By :Hugo Zhen Temperature:25 Humidity(%):64

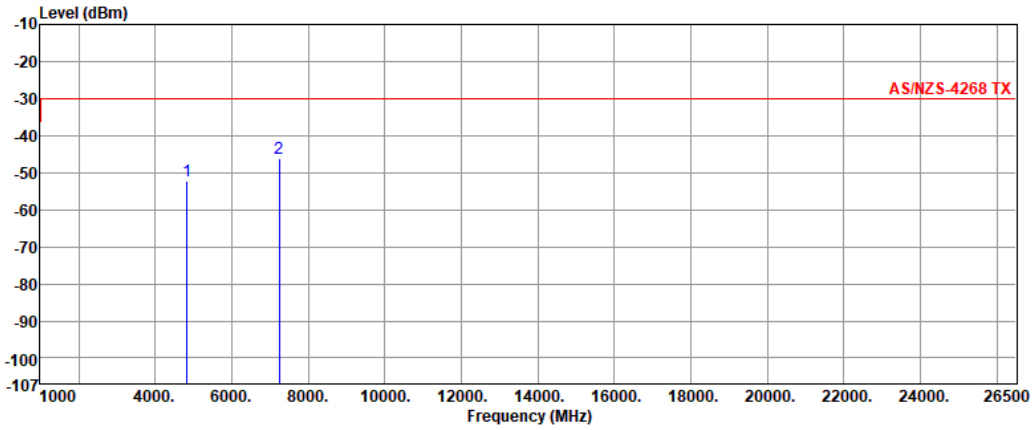


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4824.16	-52.21	-30.00	-22.21	13.76	-65.97
2	7236.33	-46.91	-30.00	-16.91	19.13	-66.04

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11g	**Test Freq. (MHz)**	2412
Polarization	Vertical		

Test By :Hugo Zhen Temperature:25 Humidity(%):64

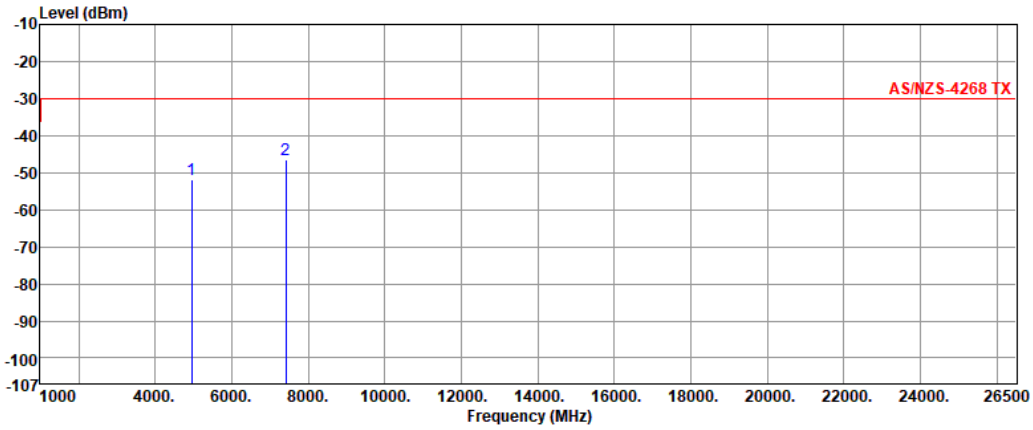


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4824.15	-52.37	-30.00	-22.37	13.70	-66.07
2	7236.23	-46.19	-30.00	-16.19	18.95	-65.14

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11g	**Test Freq. (MHz)**	2472
Polarization	Horizontal		

Test By :Hugo Zhen Temperature:25 Humidity(%):64

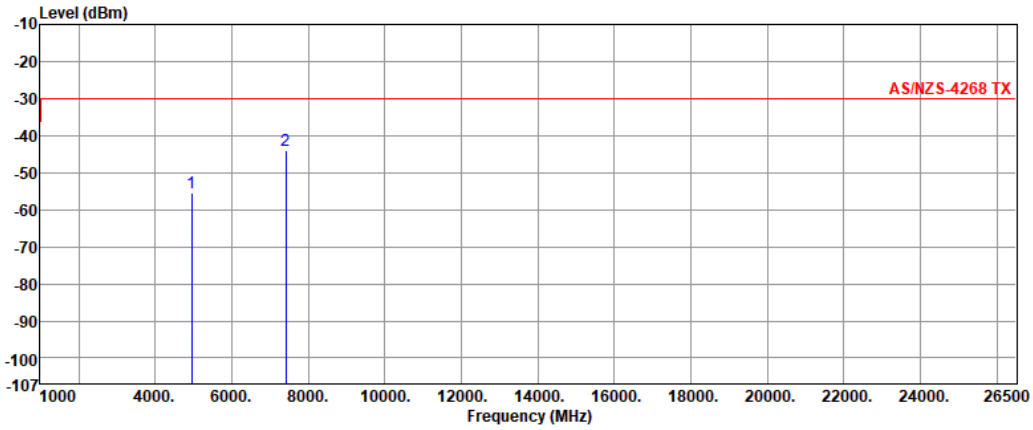


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4944.23	-52.05	-30.00	-22.05	13.85	-65.90
2	7416.32	-46.55	-30.00	-16.55	19.39	-65.94

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11g	**Test Freq. (MHz)**	2472
Polarization	Vertical		

Test By :Hugo Zhen Temperature:25 Humidity(%):64



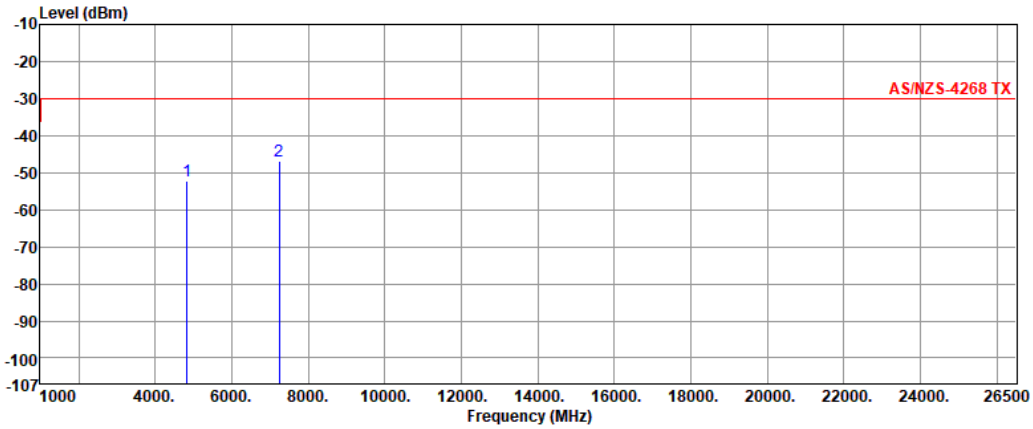
	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4944.20	-55.47	-30.00	-25.47	13.32	-68.79
2	7416.42	-44.00	-30.00	-14.00	19.51	-63.51

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Emissions (Above 1GHz) for ax HE20-OFDMA

Modulation	ax HE20-OFDMA	**Test Freq. (MHz)**	2412
Polarization	Horizontal		

Test By :Hugo Zhen Temperature:25 Humidity(%):64

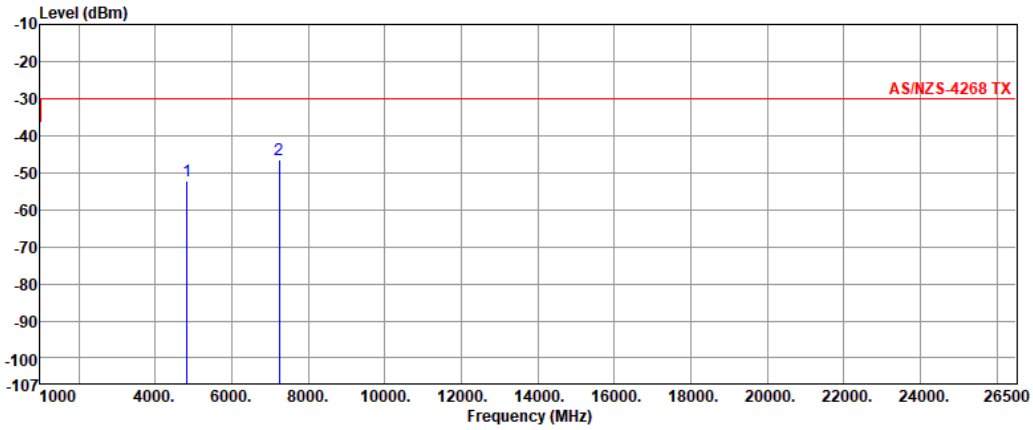


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4824.92	-52.37	-30.00	-22.37	13.77	-66.14
2	7236.02	-46.81	-30.00	-16.81	19.13	-65.94

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA	**Test Freq. (MHz)**	2412
Polarization	Vertical		

Test By :Hugo Zhen Temperature:25 Humidity(%):64

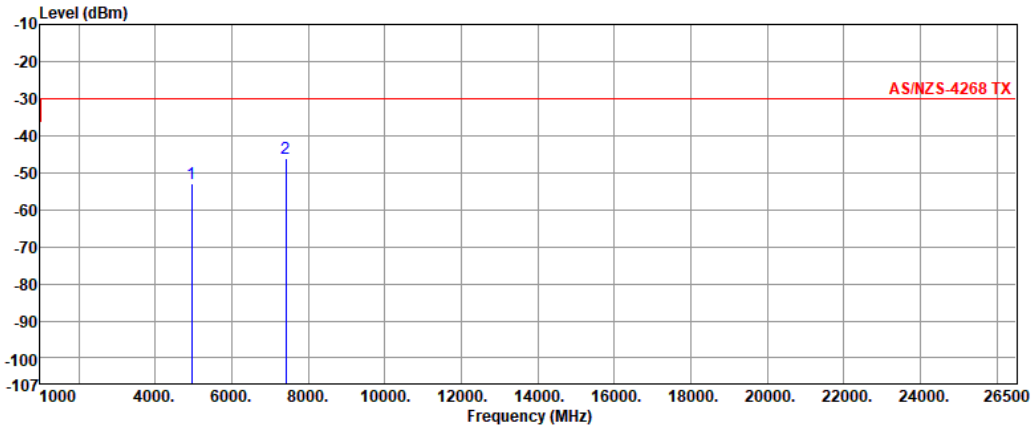


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4824.53	-52.40	-30.00	-22.40	13.70	-66.10
2	7236.18	-46.61	-30.00	-16.61	18.95	-65.56

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA	**Test Freq. (MHz)**	2472
Polarization	Horizontal		

Test By :Hugo Zhen Temperature:25 Humidity(%):64

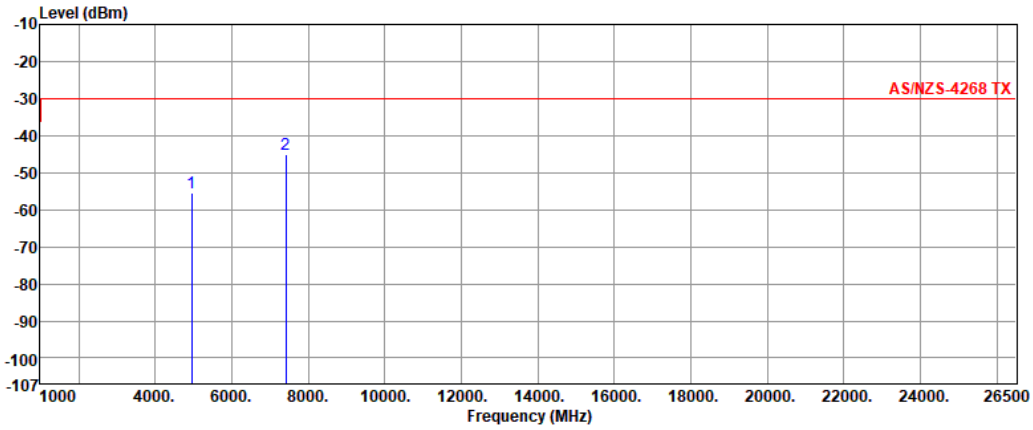


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4944.62	-52.98	-30.00	-22.98	13.85	-66.83
2	7416.31	-46.04	-30.00	-16.04	19.39	-65.43

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA	**Test Freq. (MHz)**	2472
Polarization	Vertical		

Test By :Hugo Zhen Temperature:25 Humidity(%):64



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4944.22	-55.54	-30.00	-25.54	13.32	-68.86
2	7416.40	-44.93	-30.00	-14.93	19.51	-64.44

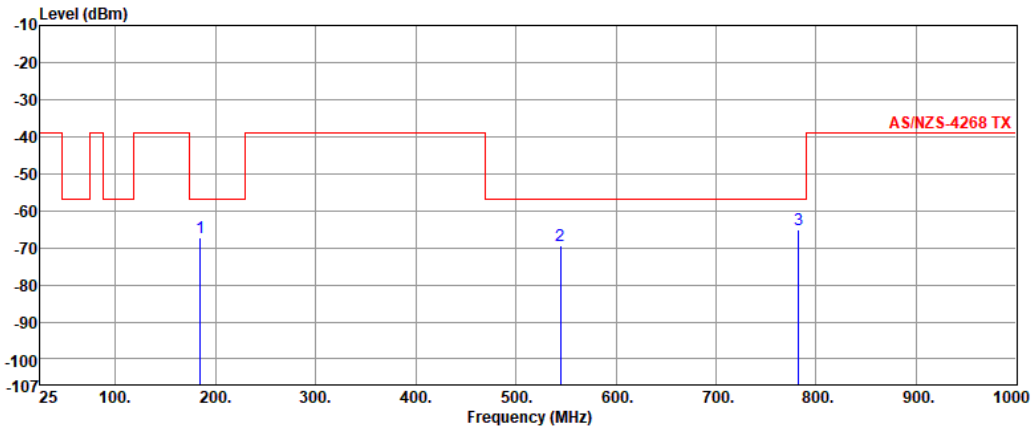
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

partial RU configuration

Emissions (25MHz ~ 1GHz)

Modulation	ax HE20-OFDMA RU26	**Test Freq. (MHz)**	2412
Polarization	Horizontal		

Test By :Hugo Zhen Temperature:25 Humidity(%):64

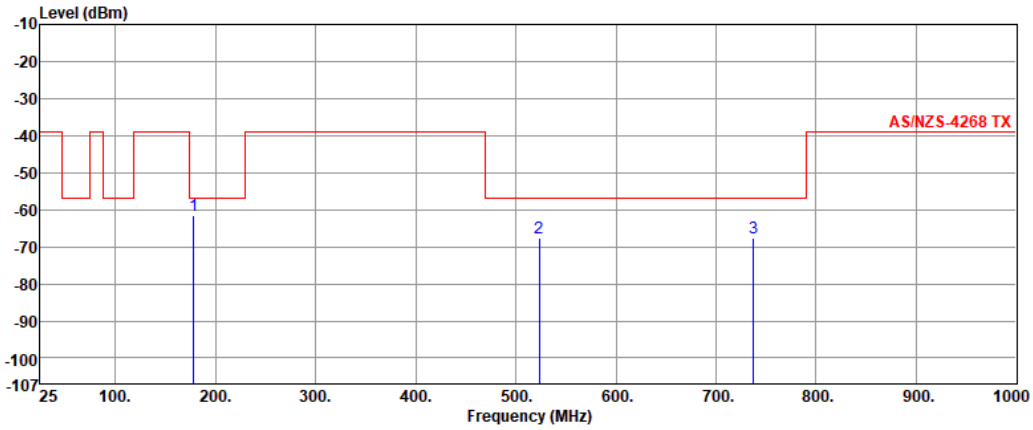


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	184.81	-67.38	-57.01	-10.37	-3.69	-63.69
2	544.37	-69.42	-57.01	-12.41	4.99	-74.41
3	782.43	-65.07	-57.01	-8.06	9.21	-74.28

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA RU26	**Test Freq. (MHz)**	2412
Polarization	Vertical		

Test By :Hugo Zhen Temperature:25 Humidity(%):64

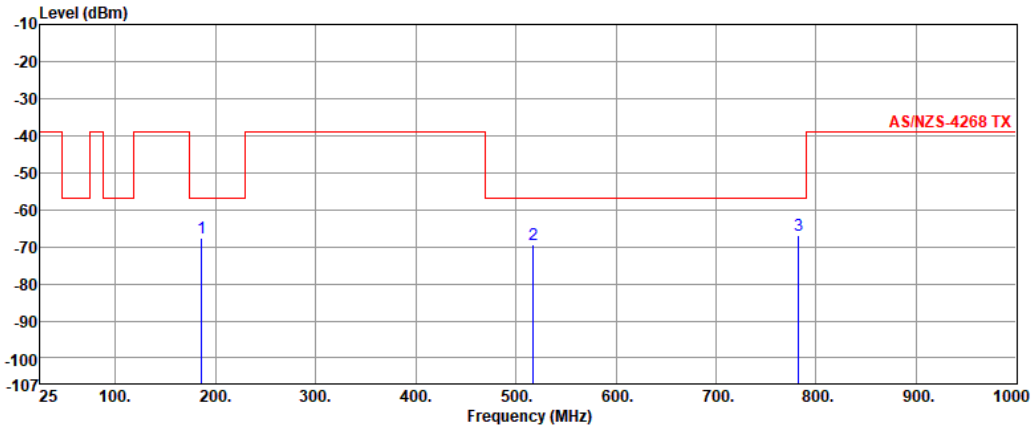


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	178.31	-61.42	-57.01	-4.41	-2.81	-58.61
2	523.65	-67.61	-57.01	-10.60	4.63	-72.24
3	737.27	-67.65	-57.01	-10.64	8.24	-75.89

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA RU26	**Test Freq. (MHz)**	2472
Polarization	Horizontal		

Test By :Hugo Zhen Temperature:25 Humidity(%):64

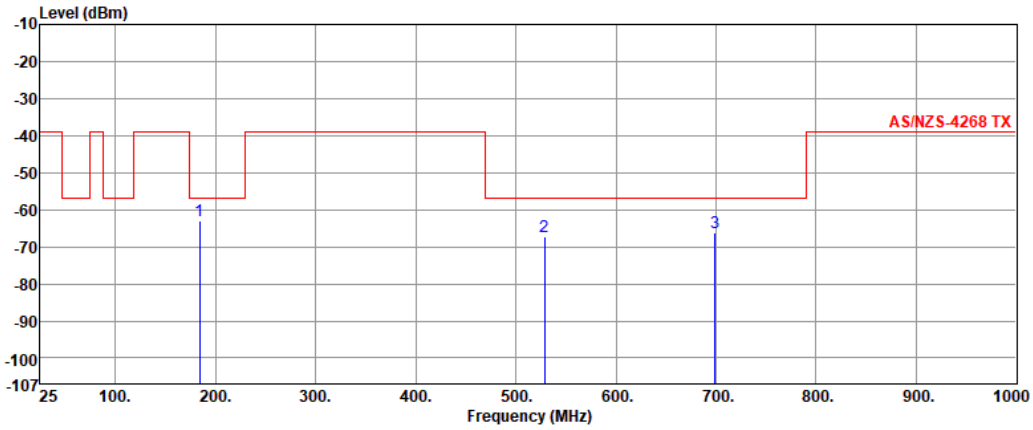


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	186.33	-67.66	-57.01	-10.65	-3.81	-63.85
2	517.71	-69.46	-57.01	-12.45	4.61	-74.07
3	782.42	-66.89	-57.01	-9.88	9.22	-76.11

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA RU26	**Test Freq. (MHz)**	2472
Polarization	Vertical		

Test By :Hugo Zhen Temperature:25 Humidity(%):64



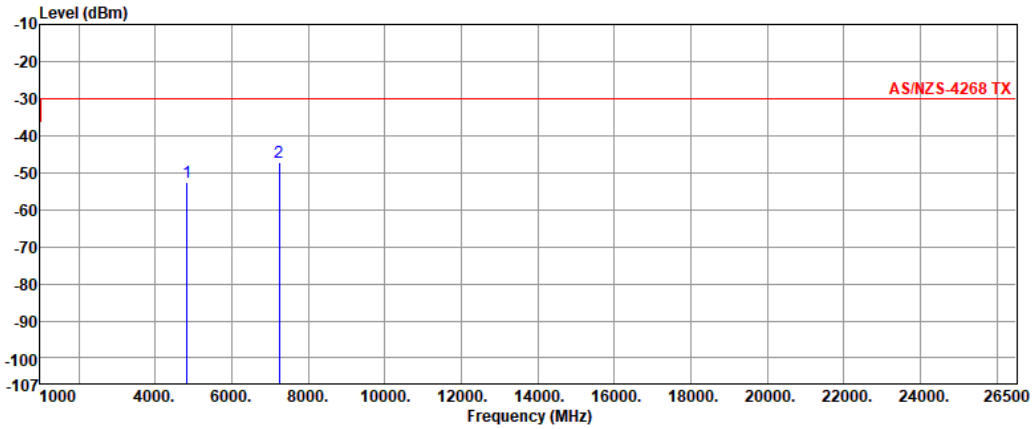
	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	184.12	-62.98	-57.01	-5.97	-4.02	-58.96
2	528.81	-67.35	-57.01	-10.34	5.00	-72.35
3	699.11	-66.26	-57.01	-9.25	7.99	-74.25

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Emissions (Above 1GHz)

Modulation	ax HE20-OFDMA RU26	**Test Freq. (MHz)**	2412
Polarization	Horizontal		

Test By :Hugo Zhen Temperature:25 Humidity(%):64

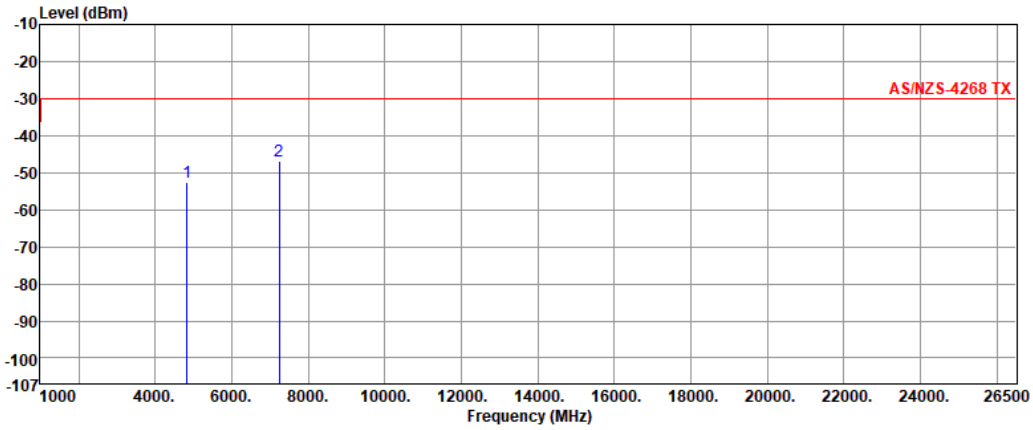


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4823.85	-52.70	-30.00	-22.70	13.76	-66.46
2	7235.79	-47.08	-30.00	-17.08	19.13	-66.21

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA RU26	**Test Freq. (MHz)**	2412
Polarization	Vertical		

Test By :Hugo Zhen Temperature:25 Humidity(%):64

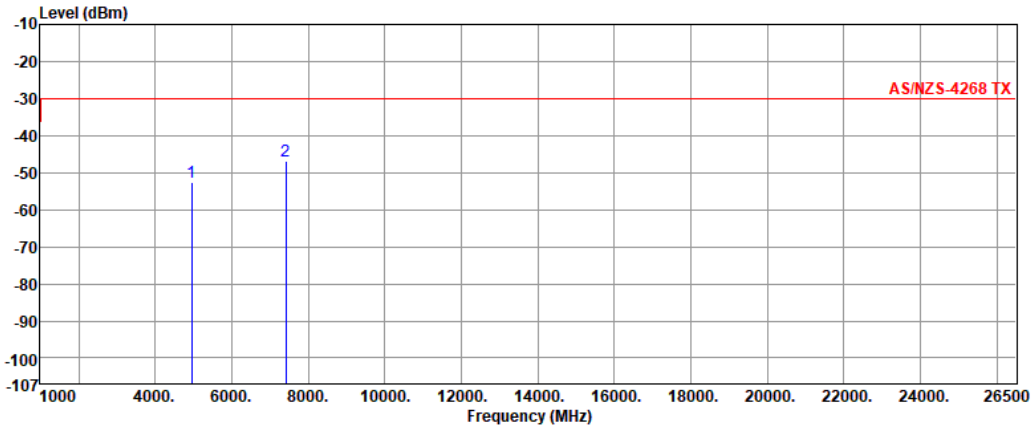


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4824.17	-52.60	-30.00	-22.60	13.70	-66.30
2	7235.93	-46.69	-30.00	-16.69	18.95	-65.64

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA RU26	**Test Freq. (MHz)**	2472
Polarization	Horizontal		

Test By :Hugo Zhen Temperature:25 Humidity(%):64

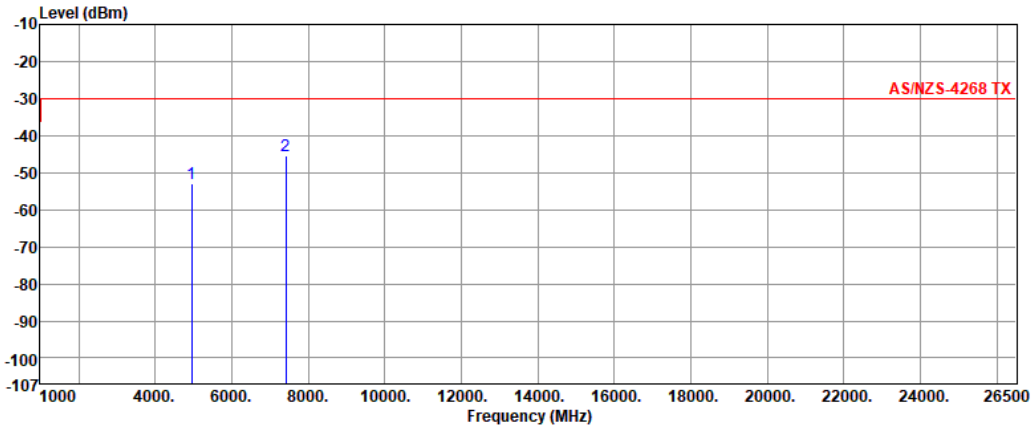


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4944.10	-52.74	-30.00	-22.74	13.85	-66.59
2	7416.04	-46.92	-30.00	-16.92	19.38	-66.30

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA RU26	**Test Freq. (MHz)**	2472
Polarization	Vertical		

Test By :Hugo Zhen Temperature:25 Humidity(%):64



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4944.15	-52.94	-30.00	-22.94	13.32	-66.26
2	7415.82	-45.58	-30.00	-15.58	19.51	-65.09

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

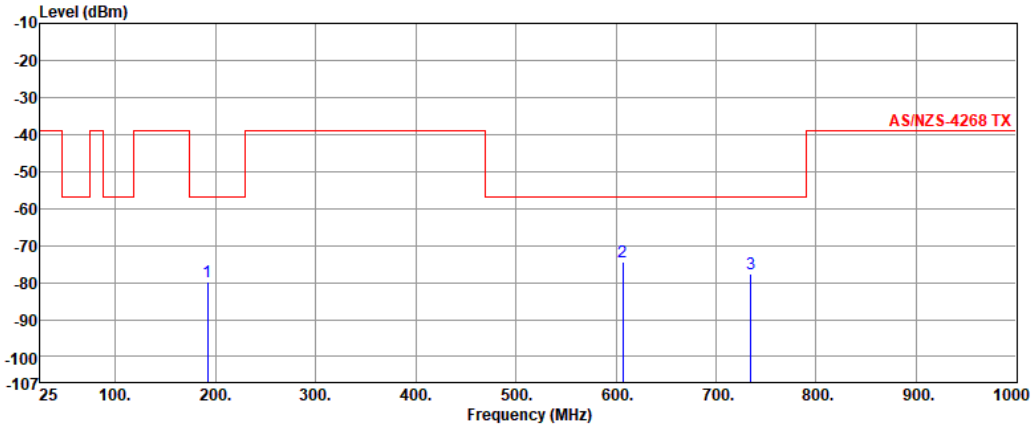
full RU configuration

ANT0

Emissions (25MHz ~ 1GHz)

Modulation	11g
Test Freq. (MHz)	2412

Test By :Hugo Zhen Temperature:25 Humidity(%):64

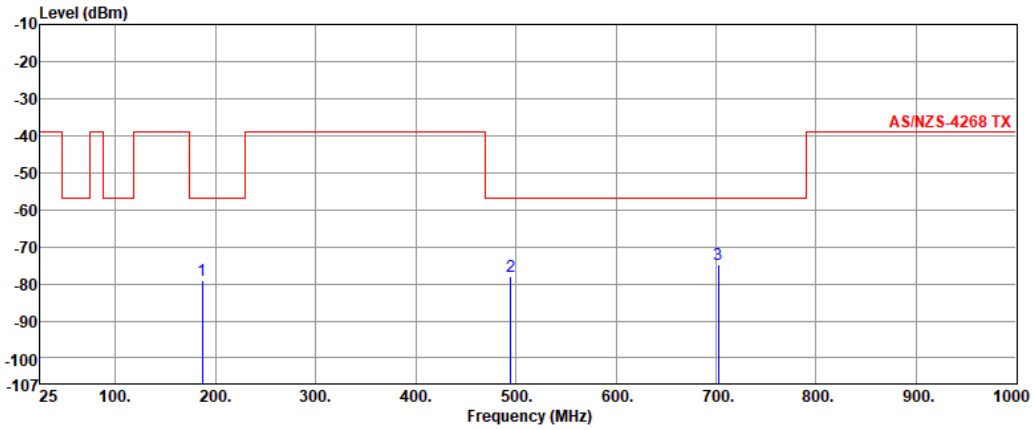


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	191.73	-79.74	-57.01	-22.73	0.00	-79.74
2	607.08	-74.56	-57.01	-17.55	0.00	-74.56
3	734.80	-77.57	-57.01	-20.56	0.00	-77.57

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11g
Test Freq. (MHz)	2472

Test By :Hugo Zhen Temperature:25 Humidity(%):64

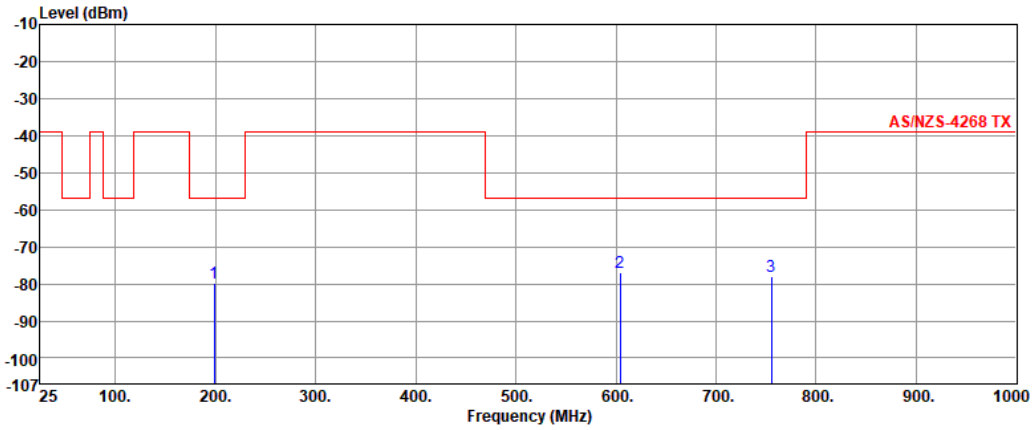


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	186.85	-79.16	-57.01	-22.15	0.00	-79.16
2	494.95	-77.85	-57.01	-20.84	0.00	-77.85
3	702.63	-74.62	-57.01	-17.61	0.00	-74.62

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA
Test Freq. (MHz)	2412

Test By :Hugo Zhen Temperature:25 Humidity(%):64

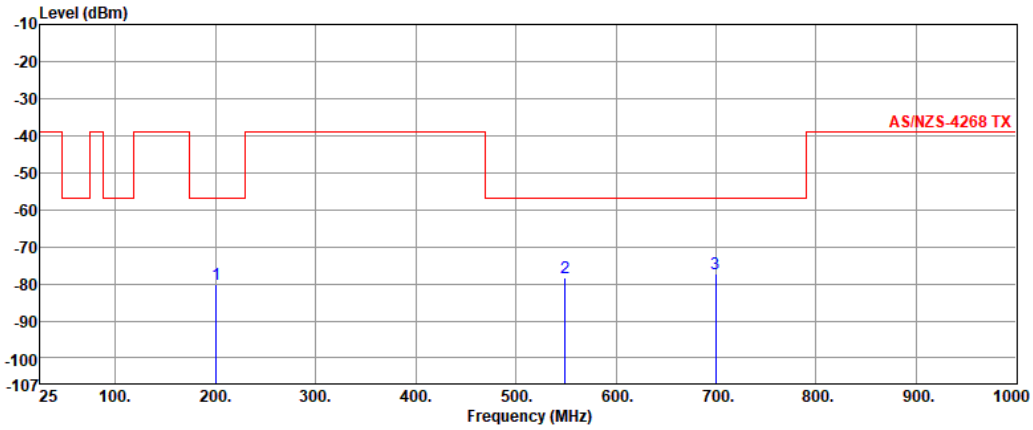


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	198.55	-79.79	-57.01	-22.78	0.00	-79.79
2	604.15	-77.09	-57.01	-20.08	0.00	-77.09
3	755.28	-78.01	-57.01	-21.00	0.00	-78.01

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA
Test Freq. (MHz)	2472

Test By :Hugo Zhen Temperature:25 Humidity(%):64



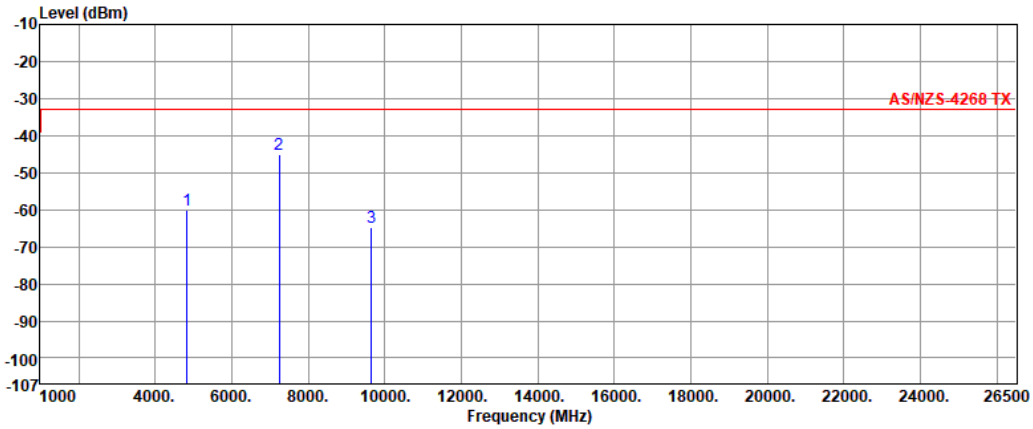
	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	200.50	-80.06	-57.01	-23.05	0.00	-80.06
2	549.55	-78.54	-57.01	-21.53	0.00	-78.54
3	699.70	-77.43	-57.01	-20.42	0.00	-77.43

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Emissions (Above 1GHz) for 802.11b

Modulation	11b
Test Freq. (MHz)	2412

Test By :Hugo Zhen Temperature:25 Humidity(%):64

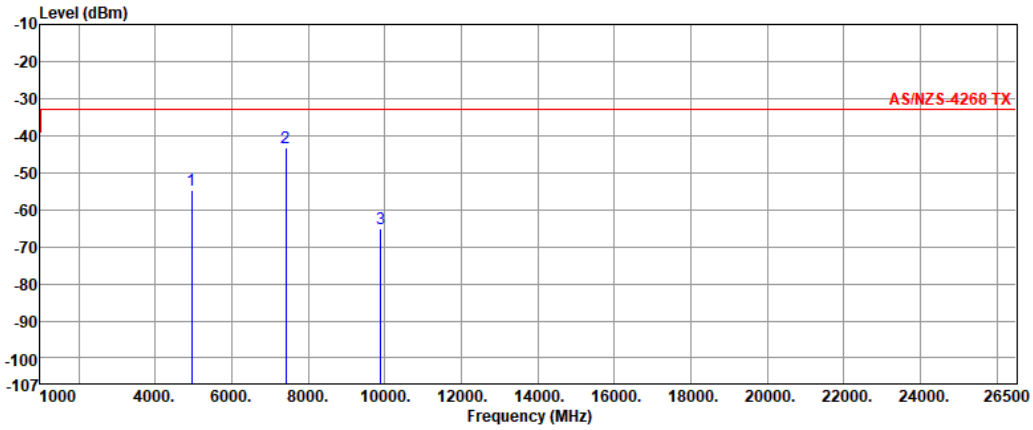


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4824.11	-59.94	-33.01	-26.93	0.00	-59.94
2	7237.17	-45.25	-33.01	-12.24	0.00	-45.25
3	9647.67	-64.67	-33.01	-31.66	0.00	-64.67

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11b
Test Freq. (MHz)	2472

Test By :Hugo Zhen Temperature:25 Humidity(%):64



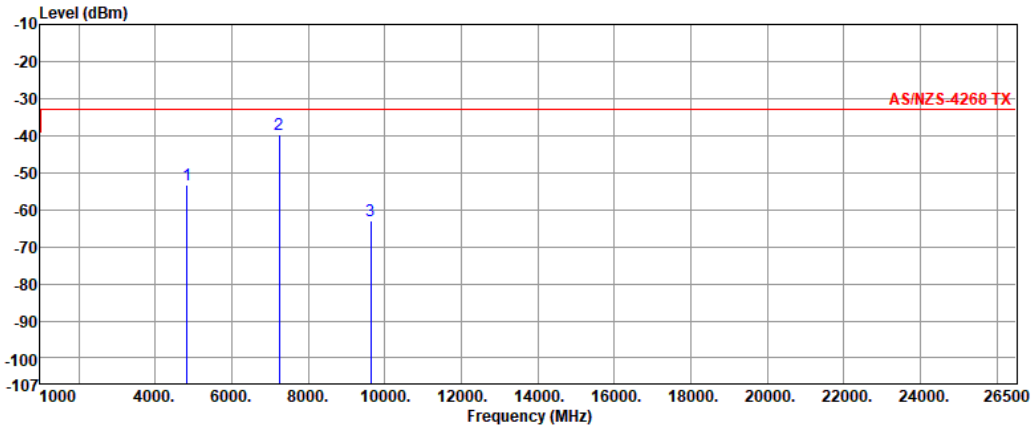
	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4944.15	-54.86	-33.01	-21.85	0.00	-54.86
2	7417.05	-43.34	-33.01	-10.33	0.00	-43.34
3	9887.93	-65.14	-33.01	-32.13	0.00	-65.14

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Emissions (Above 1GHz) for 802.11g

Modulation	11g
Test Freq. (MHz)	2412

Test By :Hugo Zhen Temperature:25 Humidity(%):64

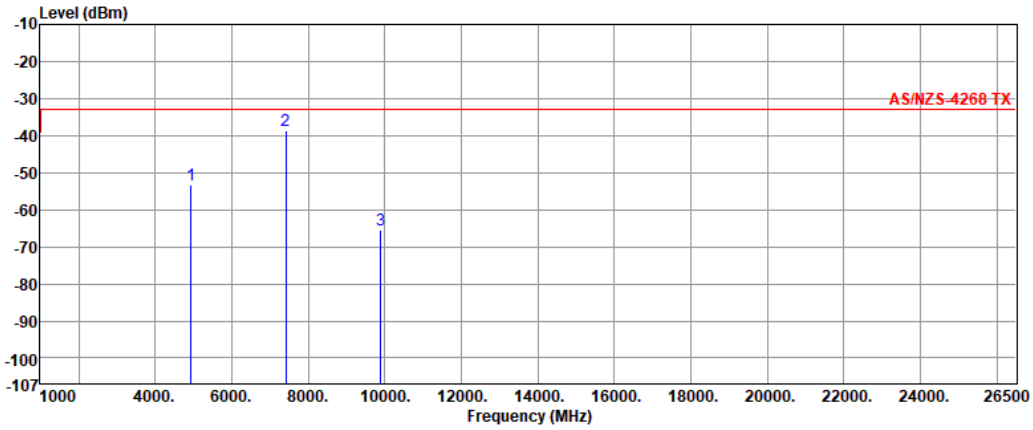


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4823.84	-53.43	-33.01	-20.42	0.00	-53.43
2	7236.47	-39.77	-33.01	-6.76	0.00	-39.77
3	9635.02	-63.05	-33.01	-30.04	0.00	-63.05

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11g
Test Freq. (MHz)	2472

Test By :Hugo Zhen Temperature:25 Humidity(%):64



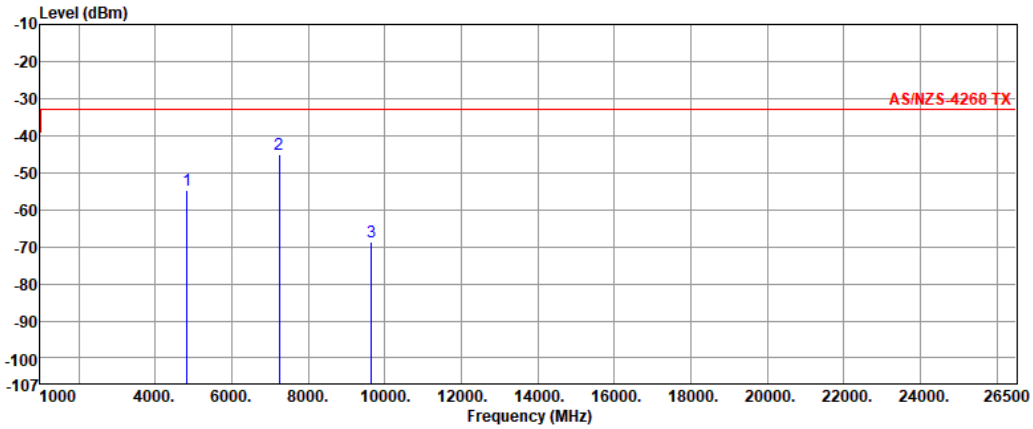
	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4944.05	-53.15	-33.01	-20.14	0.00	-53.15
2	7412.21	-38.68	-33.01	-5.67	0.00	-38.68
3	9888.24	-65.47	-33.01	-32.46	0.00	-65.47

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Emissions (Above 1GHz) for ax HE20-OFDMA

Modulation	ax HE20-OFDMA
Test Freq. (MHz)	2412

Test By :Hugo Zhen Temperature:25 Humidity(%):64

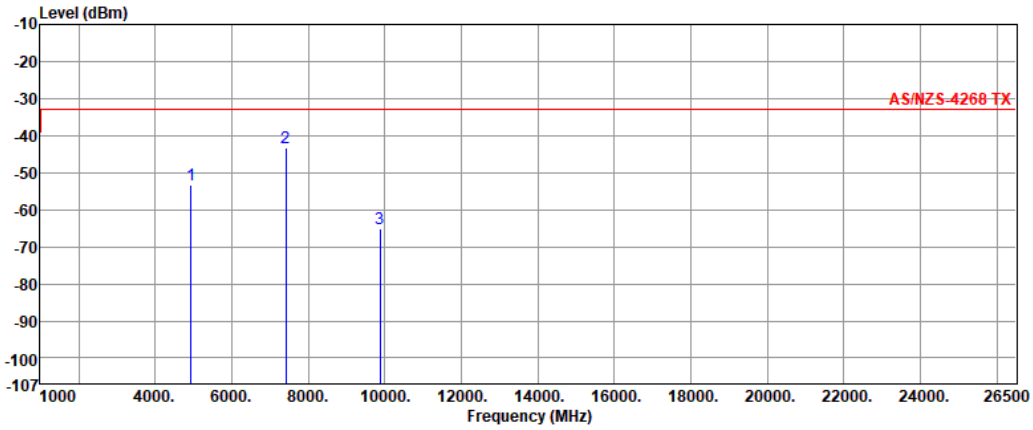


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4824.07	-54.81	-33.01	-21.80	0.00	-54.81
2	7240.82	-45.13	-33.01	-12.12	0.00	-45.13
3	9645.24	-68.68	-33.01	-35.67	0.00	-68.68

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA
Test Freq. (MHz)	2472

Test By :Hugo Zhen Temperature:25 Humidity(%):64



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4944.01	-53.42	-33.01	-20.41	0.00	-53.42
2	7417.90	-43.26	-33.01	-10.25	0.00	-43.26
3	9876.49	-65.05	-33.01	-32.04	0.00	-65.05

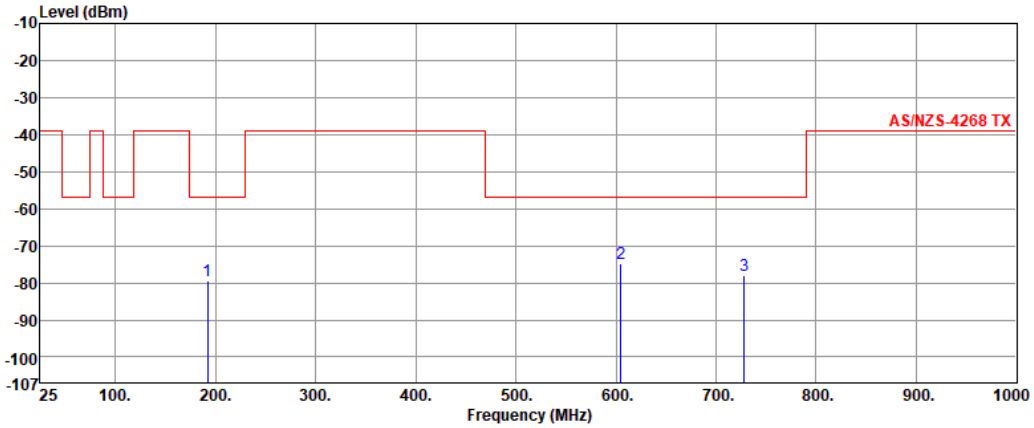
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

ANT1

Emissions (Below 1GHz)

Modulation	11g
Test Freq. (MHz)	2412

Test By :Hugo Zhen Temperature:25 Humidity(%):64

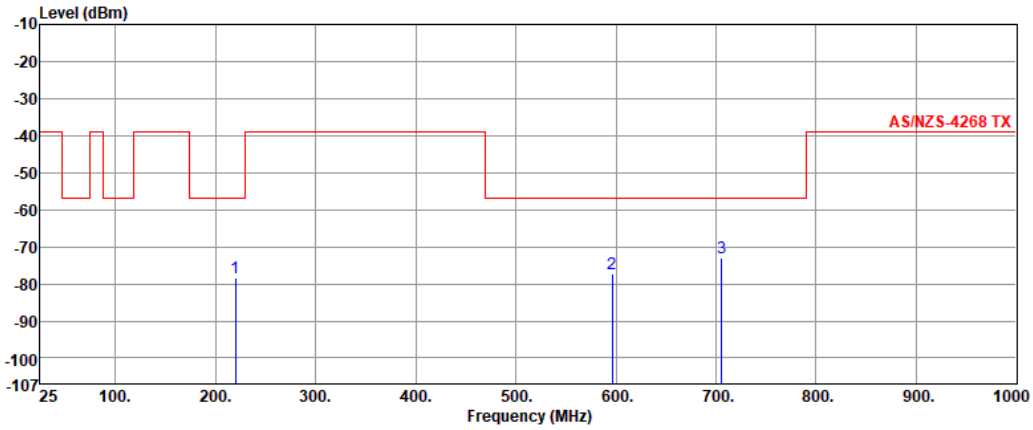


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	191.73	-79.31	-57.01	-22.30	0.00	-79.31
2	605.13	-74.62	-57.01	-17.61	0.00	-74.62
3	727.98	-78.02	-57.01	-21.01	0.00	-78.02

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11g
Test Freq. (MHz)	2472

Test By :Hugo Zhen Temperature:25 Humidity(%):64

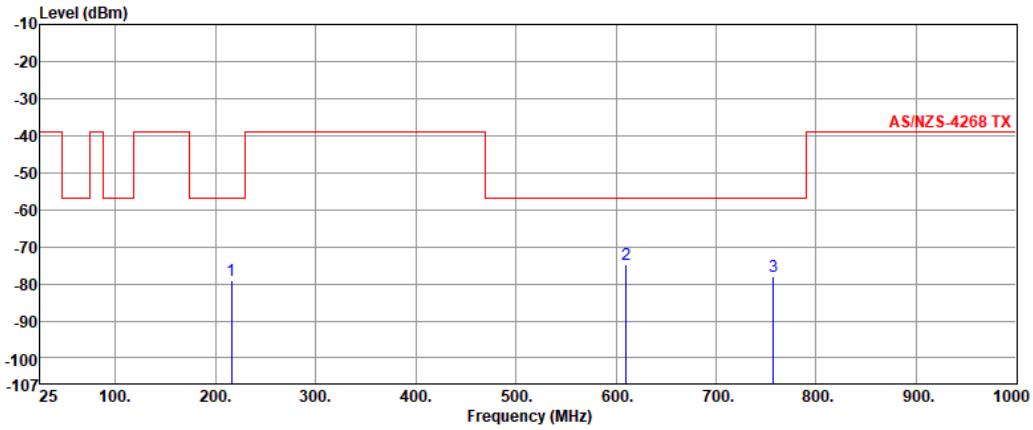


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	220.00	-78.34	-57.01	-21.33	0.00	-78.34
2	596.35	-77.46	-57.01	-20.45	0.00	-77.46
3	705.55	-73.17	-57.01	-16.16	0.00	-73.17

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA
Test Freq. (MHz)	2412

Test By :Hugo Zhen Temperature:25 Humidity(%):64

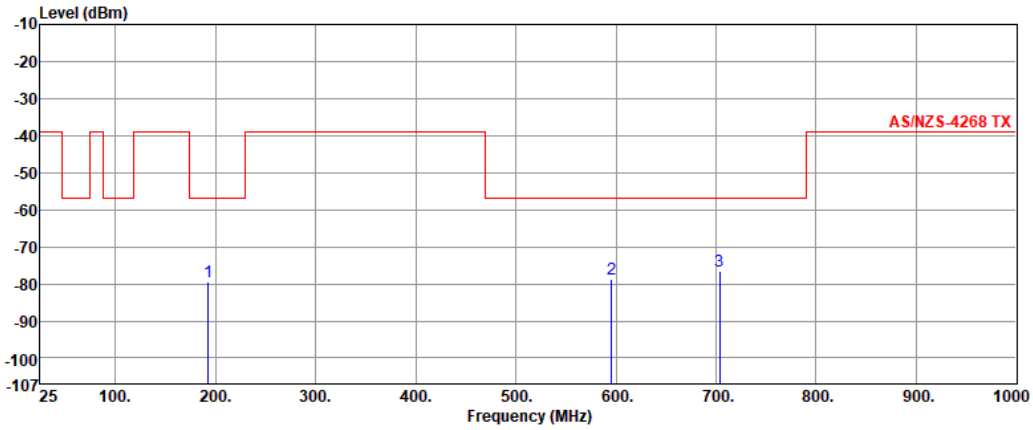


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	216.10	-79.26	-57.01	-22.25	0.00	-79.26
2	610.00	-74.82	-57.01	-17.81	0.00	-74.82
3	757.23	-77.99	-57.01	-20.98	0.00	-77.99

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA
Test Freq. (MHz)	2472

Test By :Hugo Zhen Temperature:25 Humidity(%):64



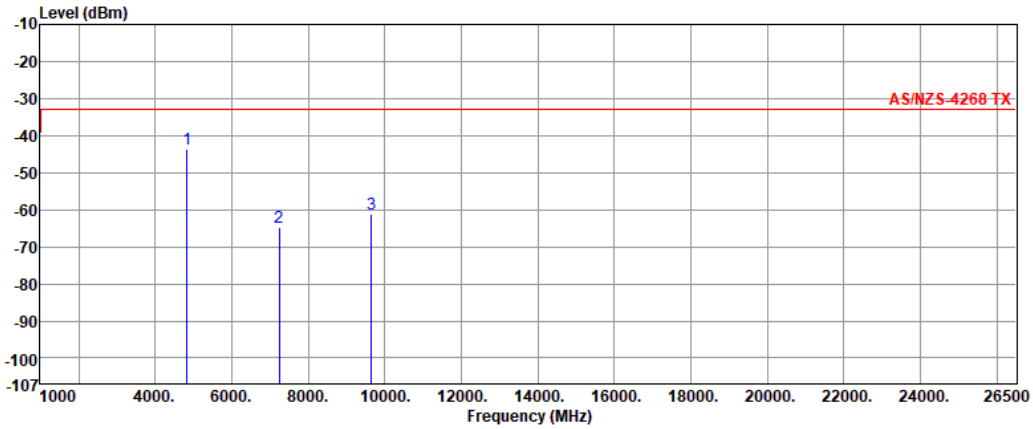
	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	192.70	-79.59	-57.01	-22.58	0.00	-79.59
2	595.38	-78.62	-57.01	-21.61	0.00	-78.62
3	703.60	-76.42	-57.01	-19.41	0.00	-76.42

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Emissions (Above 1GHz) for 802.11b

Modulation	11b
Test Freq. (MHz)	2412

Test By :Hugo Zhen Temperature:25 Humidity(%):64

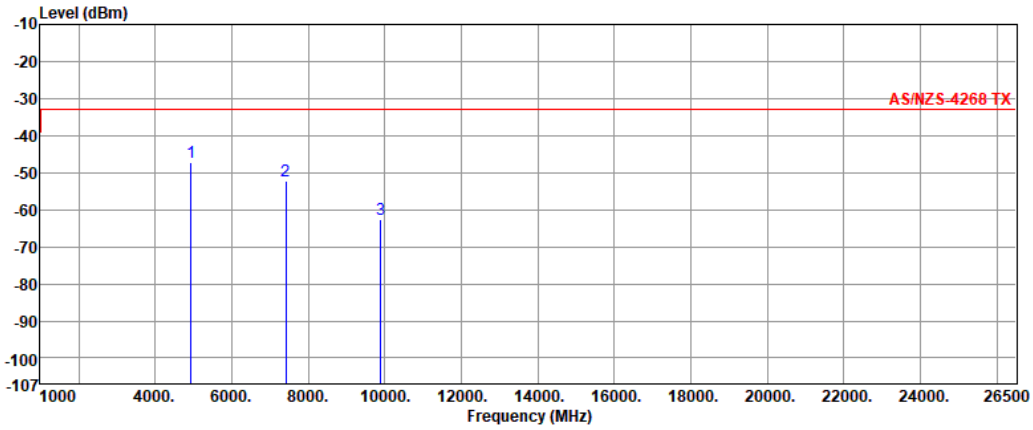


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4823.97	-43.60	-33.01	-10.59	0.00	-43.60
2	7235.98	-64.68	-33.01	-31.67	0.00	-64.68
3	9647.89	-61.23	-33.01	-28.22	0.00	-61.23

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11b
Test Freq. (MHz)	2472

Test By :Hugo Zhen Temperature:25 Humidity(%):64



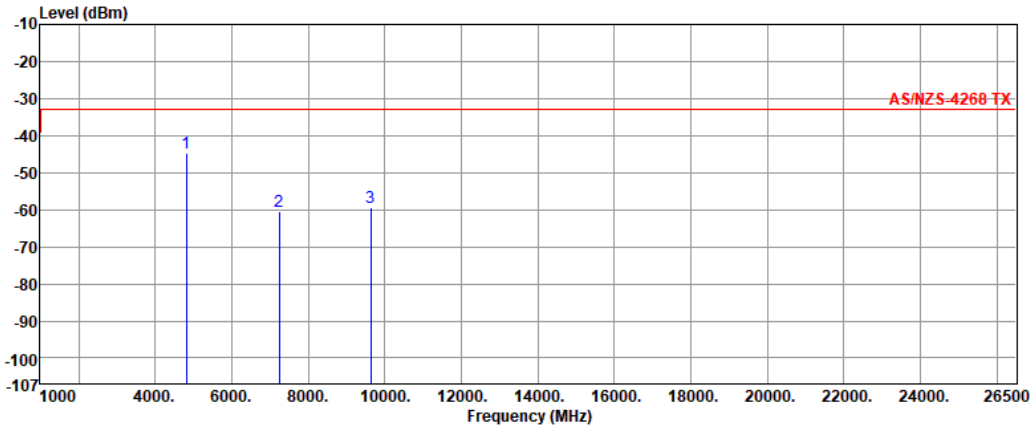
	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4944.03	-47.23	-33.01	-14.22	0.00	-47.23
2	7417.21	-52.39	-33.01	-19.38	0.00	-52.39
3	9887.95	-62.47	-33.01	-29.46	0.00	-62.47

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Emissions (Above 1GHz) for 802.11g

Modulation	11g
Test Freq. (MHz)	2412

Test By :Hugo Zhen Temperature:25 Humidity(%):64

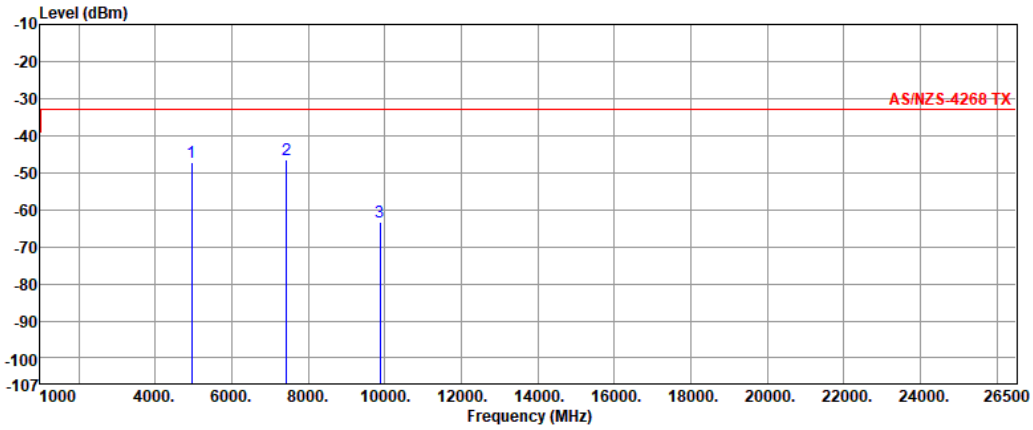


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4817.80	-44.89	-33.01	-11.88	0.00	-44.89
2	7232.99	-60.50	-33.01	-27.49	0.00	-60.50
3	9632.82	-59.47	-33.01	-26.46	0.00	-59.47

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11g
Test Freq. (MHz)	2472

Test By :Hugo Zhen Temperature:25 Humidity(%):64



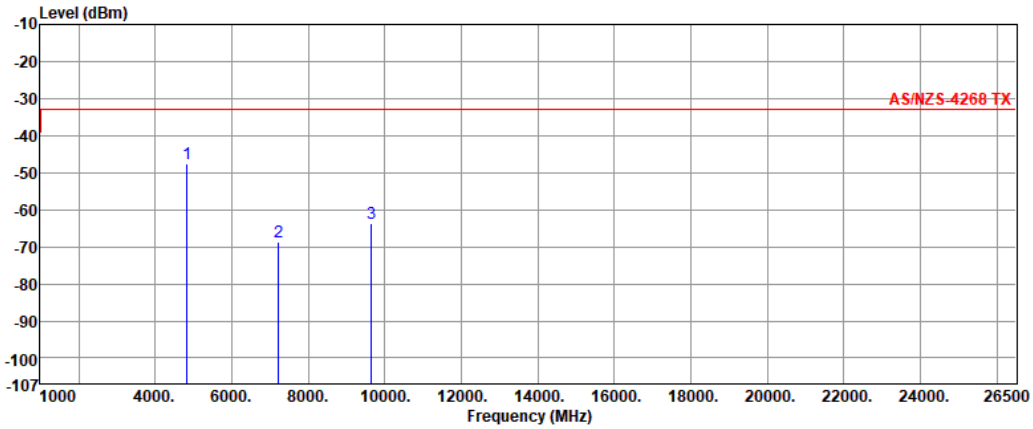
	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4945.48	-47.38	-33.01	-14.37	0.00	-47.38
2	7424.08	-46.57	-33.01	-13.56	0.00	-46.57
3	9882.62	-63.45	-33.01	-30.44	0.00	-63.45

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Emissions (Above 1GHz) for ax HE20-OFDMA

Modulation	ax HE20-OFDMA
Test Freq. (MHz)	2412

Test By :Hugo Zhen Temperature:25 Humidity(%):64

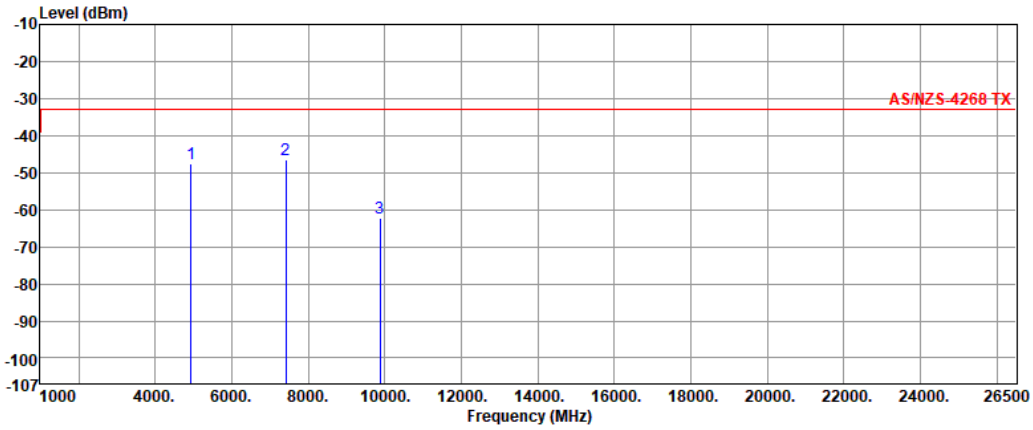


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4823.55	-47.41	-33.01	-14.40	0.00	-47.41
2	7229.94	-68.58	-33.01	-35.57	0.00	-68.58
3	9650.92	-63.75	-33.01	-30.74	0.00	-63.75

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA
Test Freq. (MHz)	2472

Test By :Hugo Zhen Temperature:25 Humidity(%):64



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4942.70	-47.61	-33.01	-14.60	0.00	-47.61
2	7414.07	-46.62	-33.01	-13.61	0.00	-46.62
3	9883.91	-62.09	-33.01	-29.08	0.00	-62.09

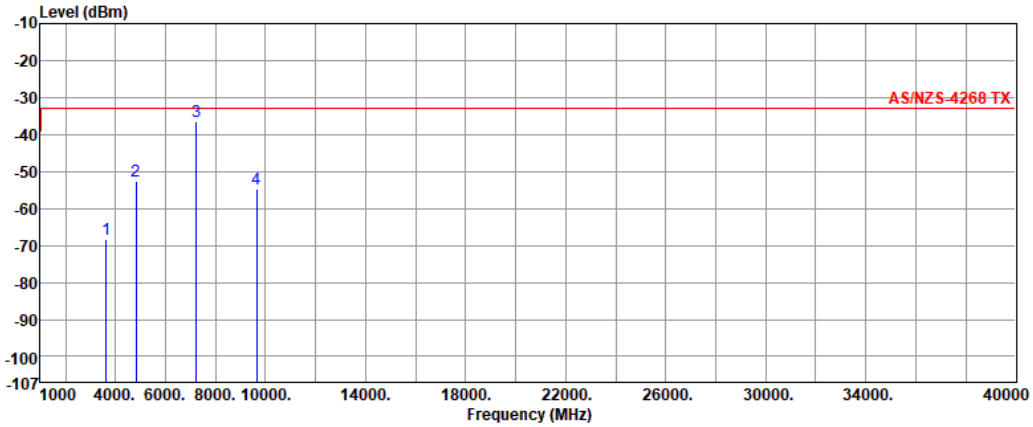
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

partial RU configuration

ANT0

Modulation	ax HE20-OFDMA RU26
Test Freq. (MHz)	2412

Test By :Hugo Zhen Temperature:25 Humidity(%):64

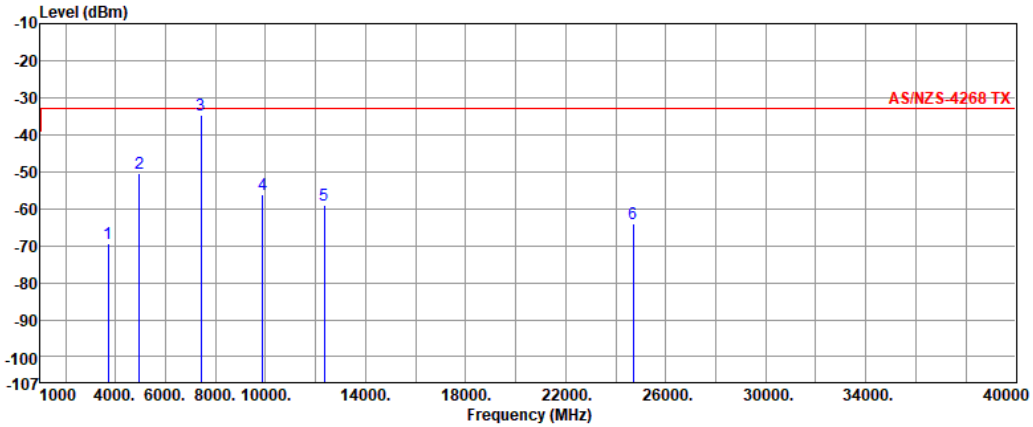


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	3617.77	-68.34	-33.01	-35.33	0.00	-68.34
2	4818.62	-52.76	-33.01	-19.75	0.00	-52.76
3	7228.88	-36.65	-33.01	-3.64	0.00	-36.65
4	9637.73	-54.88	-33.01	-21.87	0.00	-54.88

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA RU26
Test Freq. (MHz)	2472

Test By :Hugo Zhen Temperature:25 Humidity(%):64



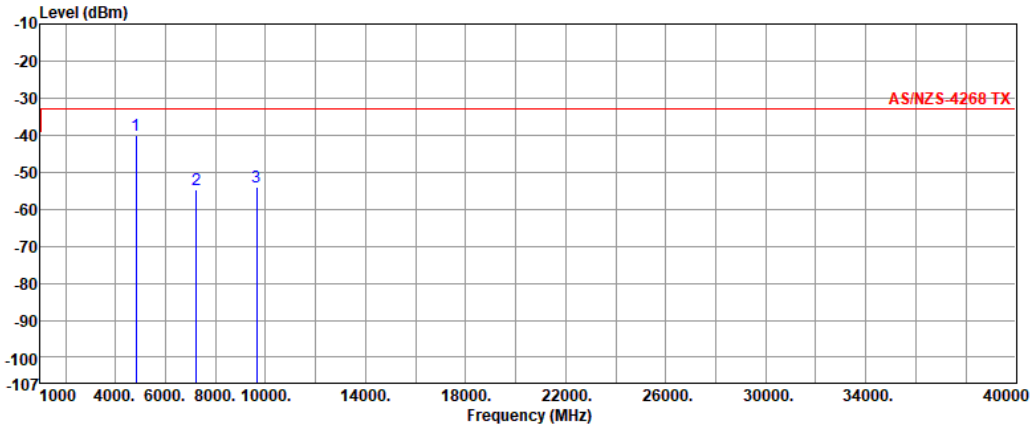
	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	3707.93	-69.49	-33.01	-36.48	0.00	-69.49
2	4938.83	-50.50	-33.01	-17.49	0.00	-50.50
3	7407.05	-34.56	-33.01	-1.55	0.00	-34.56
4	9879.50	-56.35	-33.01	-23.34	0.00	-56.35
5	12346.27	-58.97	-33.01	-25.96	0.00	-58.97
6	24696.22	-63.99	-33.01	-30.98	0.00	-63.99

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

ANT1

Modulation	ax HE20-OFDMA RU26
Test Freq. (MHz)	2412

Test By :Hugo Zhen Temperature:25 Humidity(%):64

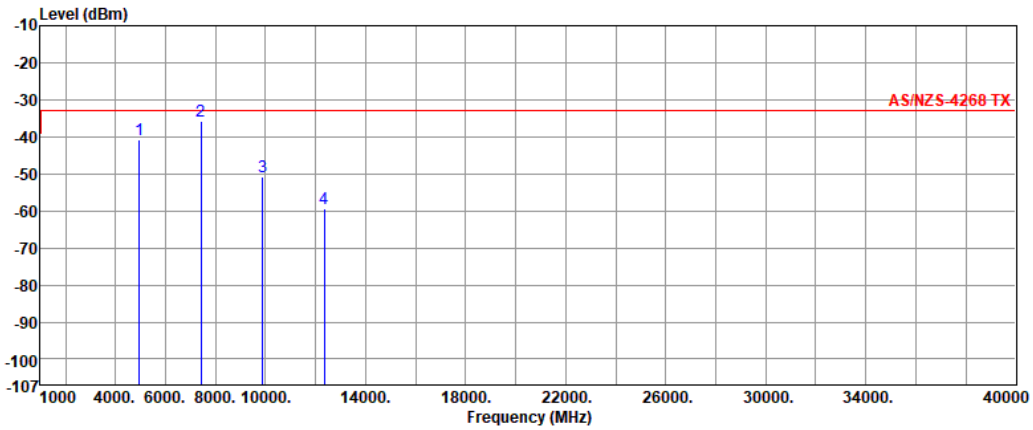


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4818.90	-40.04	-33.01	-7.03	0.00	-40.04
2	7229.48	-54.58	-33.01	-21.57	0.00	-54.58
3	9638.46	-54.10	-33.01	-21.09	0.00	-54.10

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA RU26
Test Freq. (MHz)	2472

Test By :Hugo Zhen Temperature:25 Humidity(%):64



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4939.18	-40.63	-33.01	-7.62	0.00	-40.63
2	7408.13	-35.84	-33.01	-2.83	0.00	-35.84
3	9878.36	-50.97	-33.01	-17.96	0.00	-50.97
4	12348.77	-59.53	-33.01	-26.52	0.00	-59.53

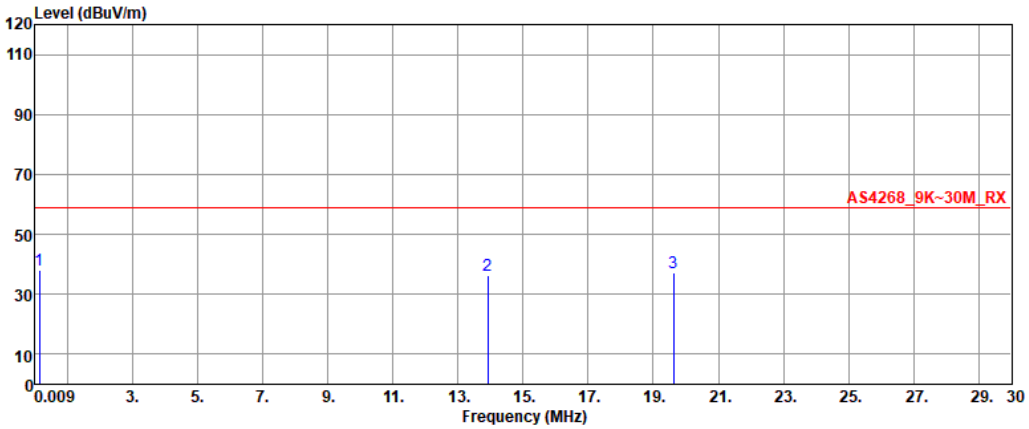
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Ant: TWX-100BRSAX-2001

Emissions (≤ 30MHz)

Modulation	11g	Test Freq. (MHz)	2412
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65

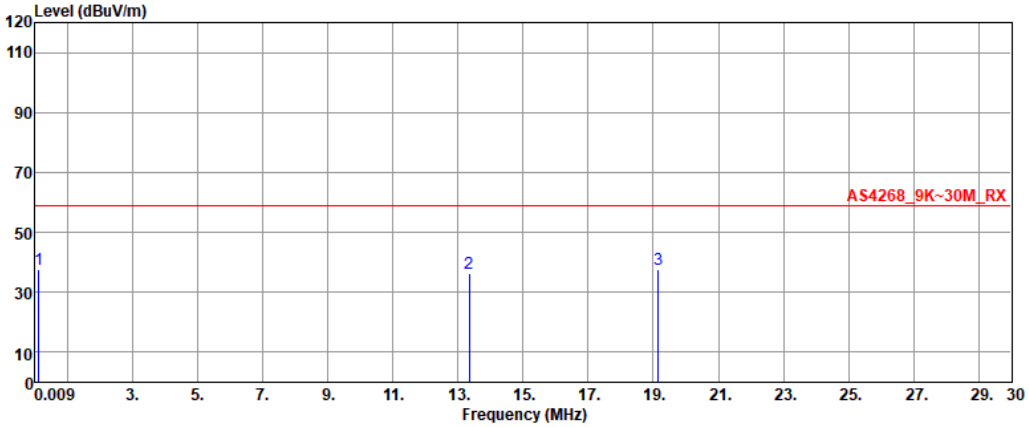


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.13	37.88	59.00	-21.12	19.02	18.86
2	13.91	36.45	59.00	-22.55	21.57	14.88
3	19.62	37.39	59.00	-21.61	21.92	15.47

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	11g	**Test Freq. (MHz)**	2472
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65

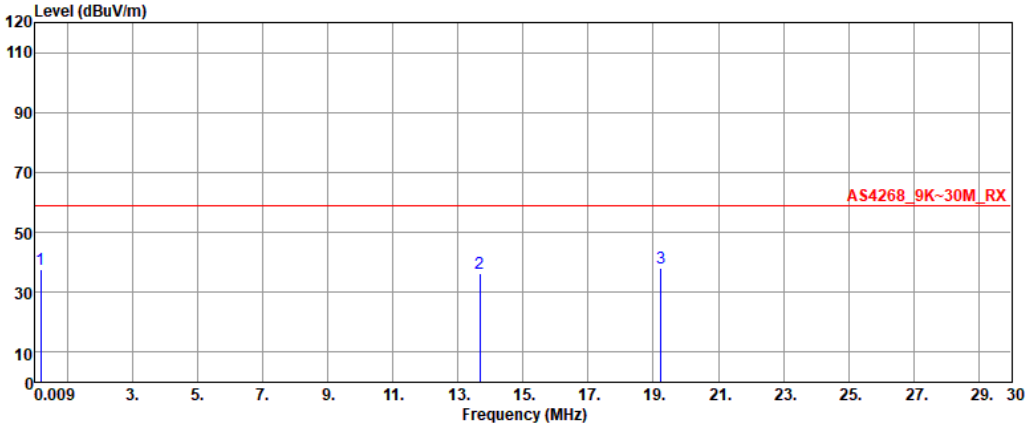


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.12	37.68	59.00	-21.32	18.95	18.73
2	13.34	36.45	59.00	-22.55	21.52	14.93
3	19.16	37.54	59.00	-21.46	21.89	15.65

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20-OFDMA	Test Freq. (MHz)	2412
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65

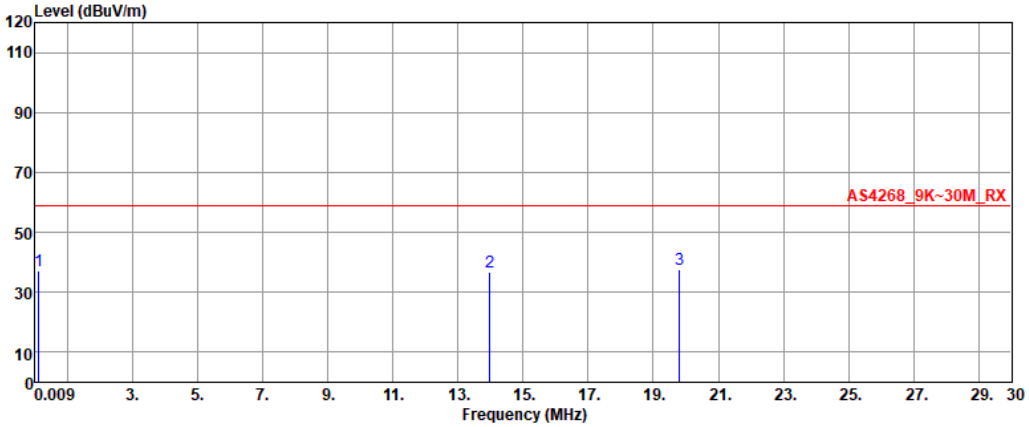


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.17	37.58	59.00	-21.42	19.14	18.44
2	13.67	36.50	59.00	-22.50	21.55	14.95
3	19.23	37.96	59.00	-21.04	21.90	16.06

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20-OFDMA	**Test Freq. (MHz)**	2472
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.11	37.36	59.00	-21.64	18.91	18.45
2	13.98	36.60	59.00	-22.40	21.57	15.03
3	19.81	37.79	59.00	-21.21	21.93	15.86

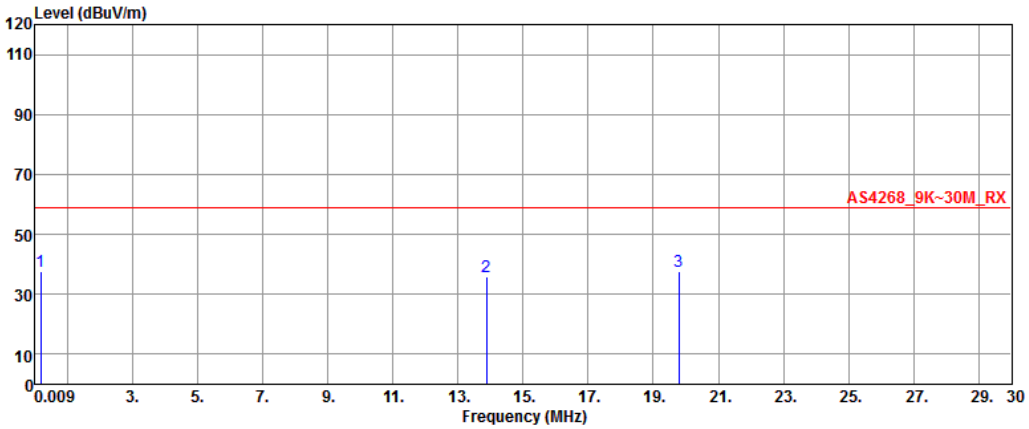
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Ant: FlexMIMO 6E

Emissions (≤ 30MHz)

Modulation	11g	Test Freq. (MHz)	2412
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65

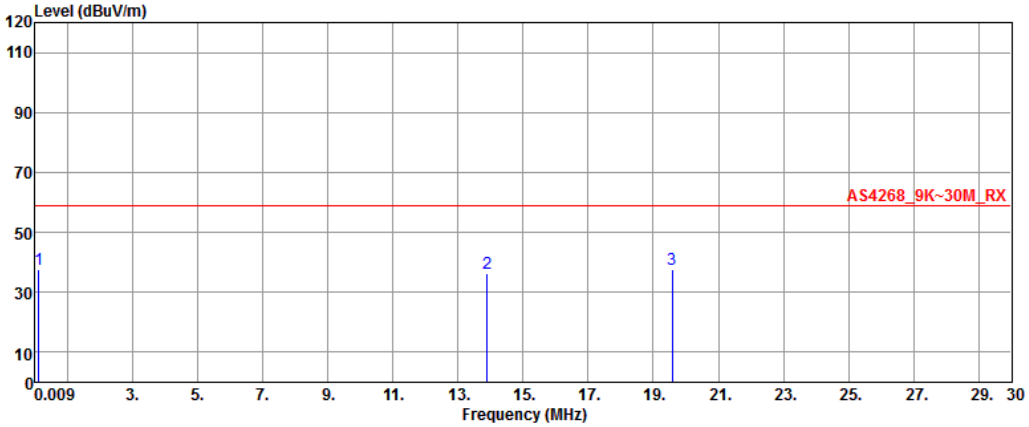


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.18	37.62	59.00	-21.38	19.16	18.46
2	13.88	36.08	59.00	-22.92	21.56	14.52
3	19.79	37.65	59.00	-21.35	21.93	15.72

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	11g	**Test Freq. (MHz)**	2472
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65

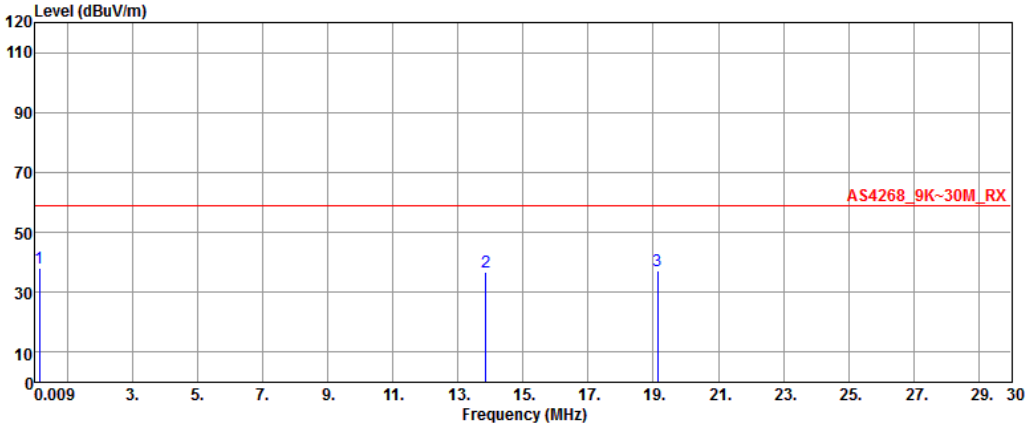


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.12	37.47	59.00	-21.53	18.97	18.50
2	13.89	36.27	59.00	-22.73	21.56	14.71
3	19.58	37.78	59.00	-21.22	21.92	15.86

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20-OFDMA	**Test Freq. (MHz)**	2412
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65

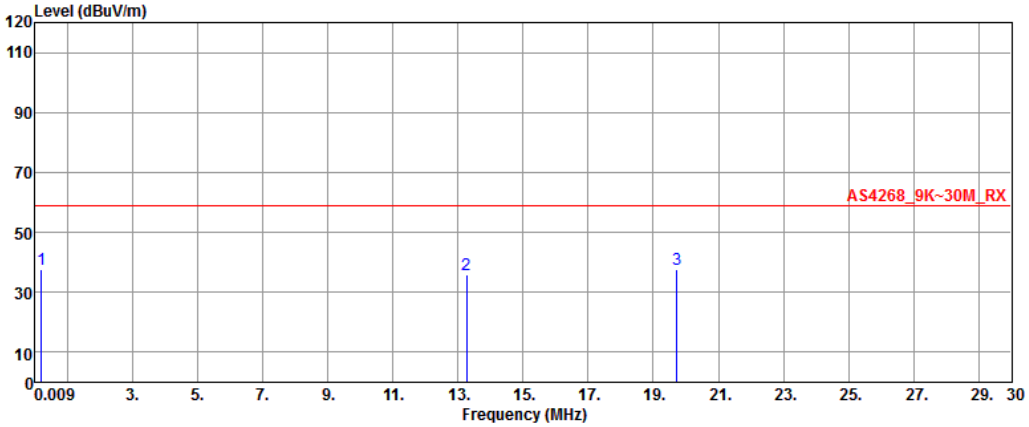


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.13	37.94	59.00	-21.06	19.02	18.92
2	13.85	36.57	59.00	-22.43	21.56	15.01
3	19.14	37.32	59.00	-21.68	21.89	15.43

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20-OFDMA	**Test Freq. (MHz)**	2472
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.19	37.49	59.00	-21.51	19.17	18.32
2	13.26	36.05	59.00	-22.95	21.51	14.54
3	19.72	37.63	59.00	-21.37	21.93	15.70

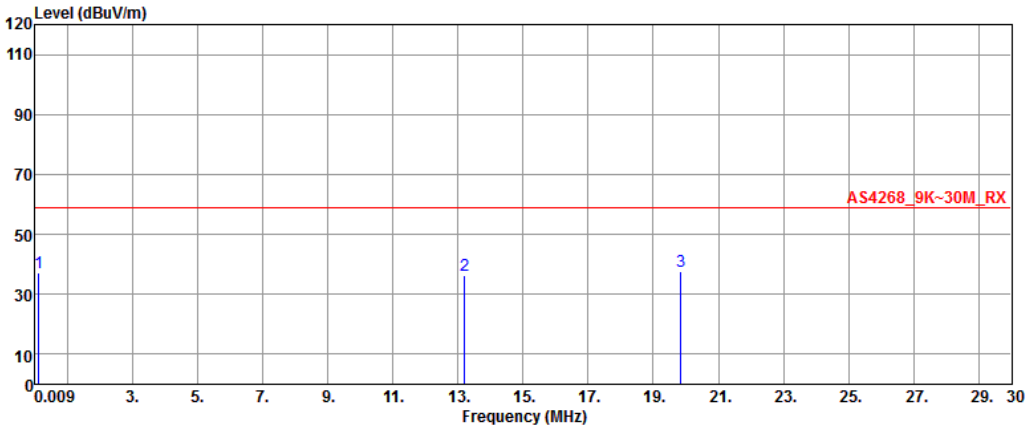
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Ant: Mini NanoBlade Flex 6 GHz

Emissions (≤ 30MHz)

Modulation	11g	Test Freq. (MHz)	2412
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65

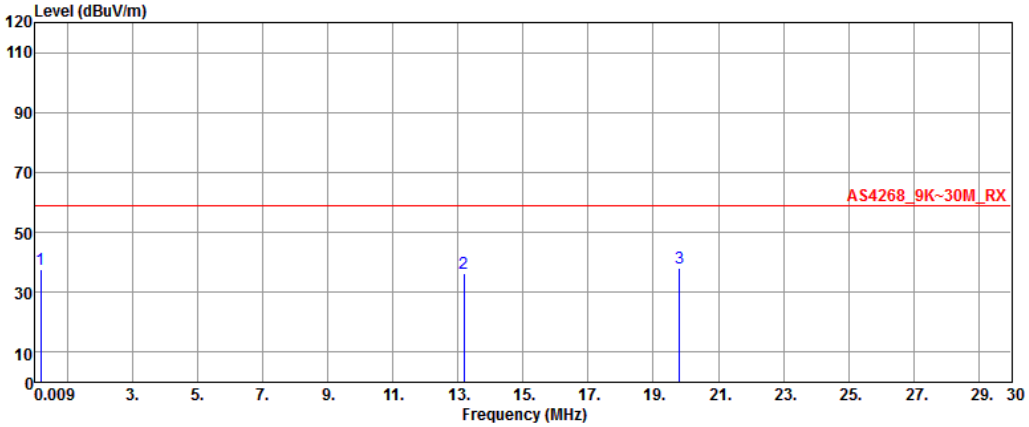


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.12	37.26	59.00	-21.74	18.97	18.29
2	13.20	36.10	59.00	-22.90	21.51	14.59
3	19.84	37.56	59.00	-21.44	21.93	15.63

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	11g	**Test Freq. (MHz)**	2472
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65

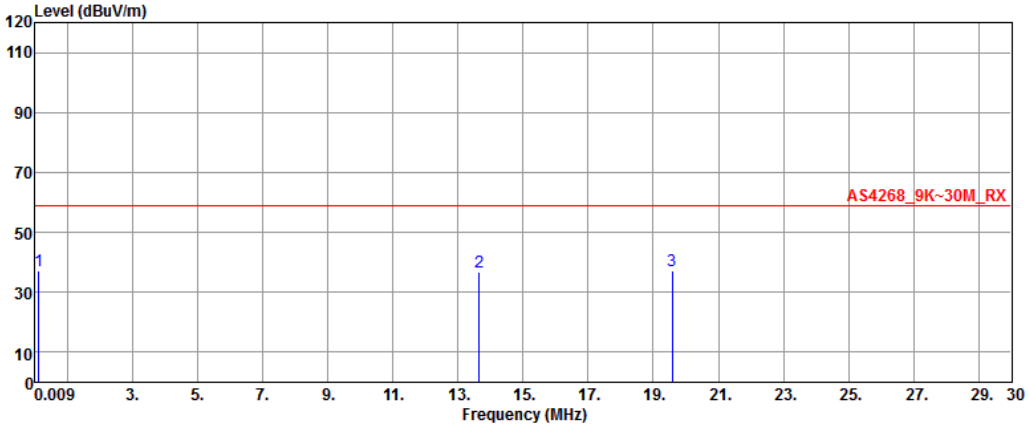


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.17	37.60	59.00	-21.40	19.13	18.47
2	13.17	36.45	59.00	-22.55	21.51	14.94
3	19.81	37.95	59.00	-21.05	21.93	16.02

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20-OFDMA	**Test Freq. (MHz)**	2412
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65

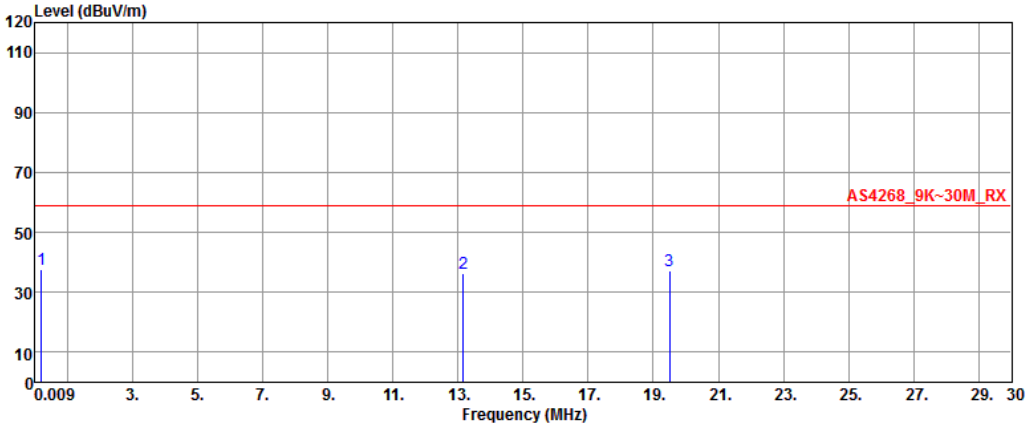


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.10	37.18	59.00	-21.82	18.90	18.28
2	13.65	36.92	59.00	-22.08	21.55	15.37
3	19.58	37.39	59.00	-21.61	21.92	15.47

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20-OFDMA	**Test Freq. (MHz)**	2472
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.18	37.78	59.00	-21.22	19.17	18.61
2	13.16	36.52	59.00	-22.48	21.51	15.01
3	19.49	37.32	59.00	-21.68	21.92	15.40

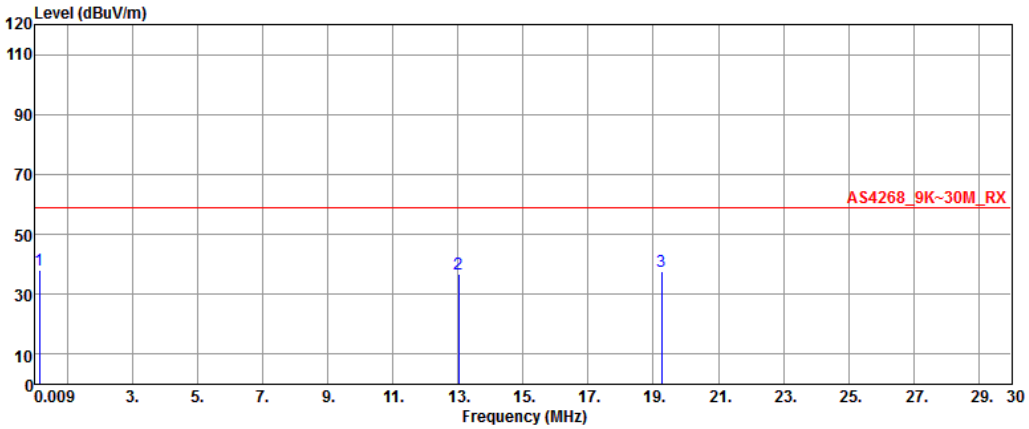
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Ant: FlexPIFA 6E

Emissions (≤ 30MHz)

Modulation	11g	Test Freq. (MHz)	2412
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65

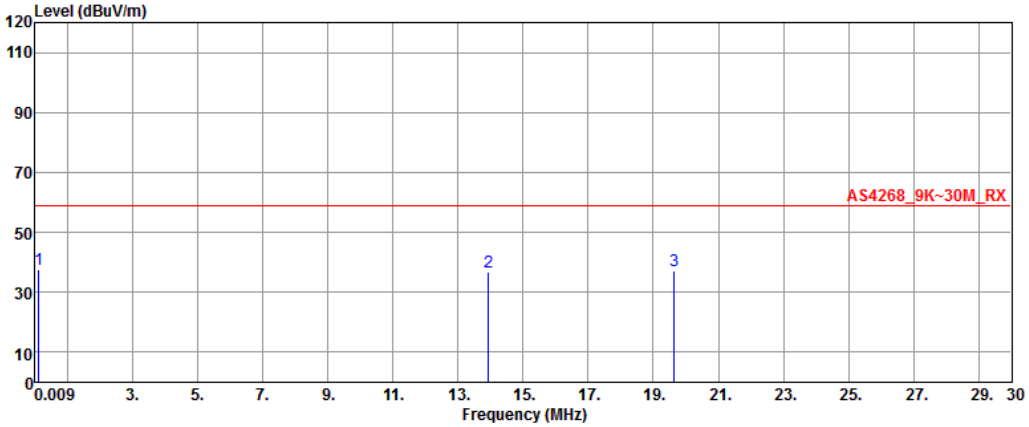


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.14	37.99	59.00	-21.01	19.03	18.96
2	13.01	36.78	59.00	-22.22	21.50	15.28
3	19.25	37.43	59.00	-21.57	21.90	15.53

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	11g	Test Freq. (MHz)	2472
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65

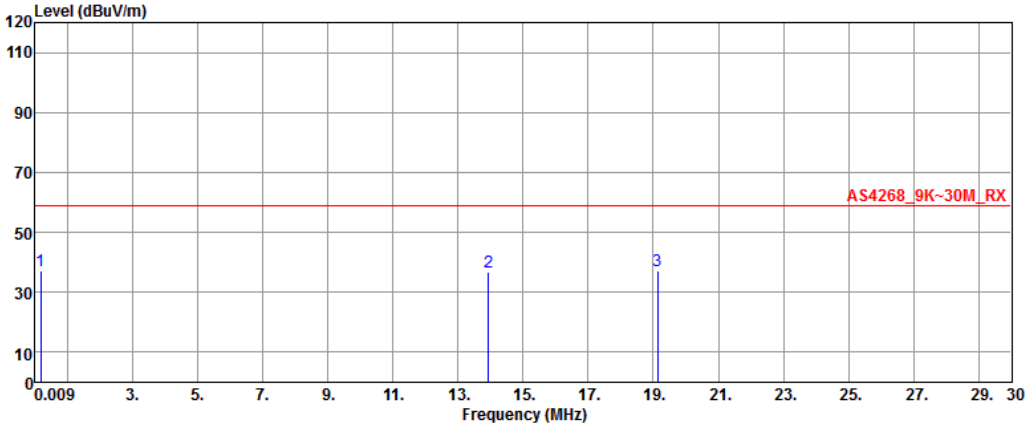


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.12	37.42	59.00	-21.58	18.95	18.47
2	13.93	36.58	59.00	-22.42	21.57	15.01
3	19.65	37.27	59.00	-21.73	21.92	15.35

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20-OFDMA	Test Freq. (MHz)	2412
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65

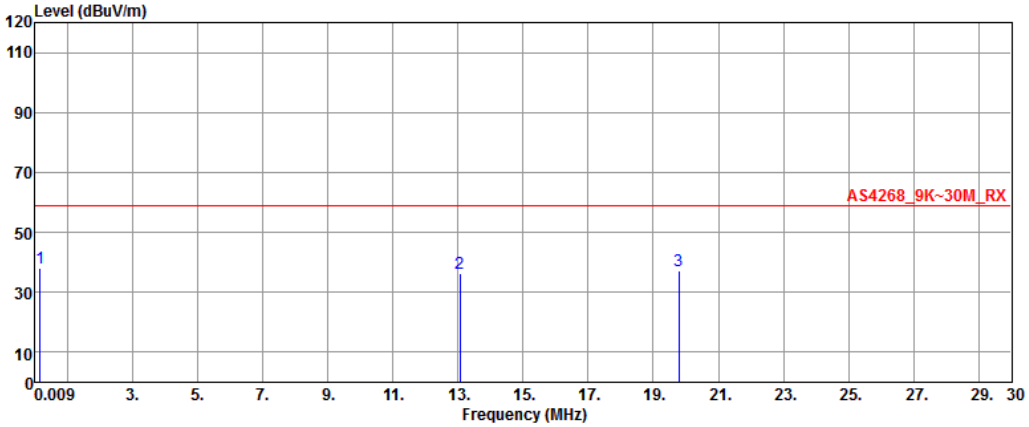


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.17	37.21	59.00	-21.79	19.13	18.08
2	13.94	36.85	59.00	-22.15	21.57	15.28
3	19.14	37.37	59.00	-21.63	21.89	15.48

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20-OFDMA	**Test Freq. (MHz)**	2472
Frequency	9kHz~30MHz		

Test By :Michael Huang Temperature:26 Humidity(%):65



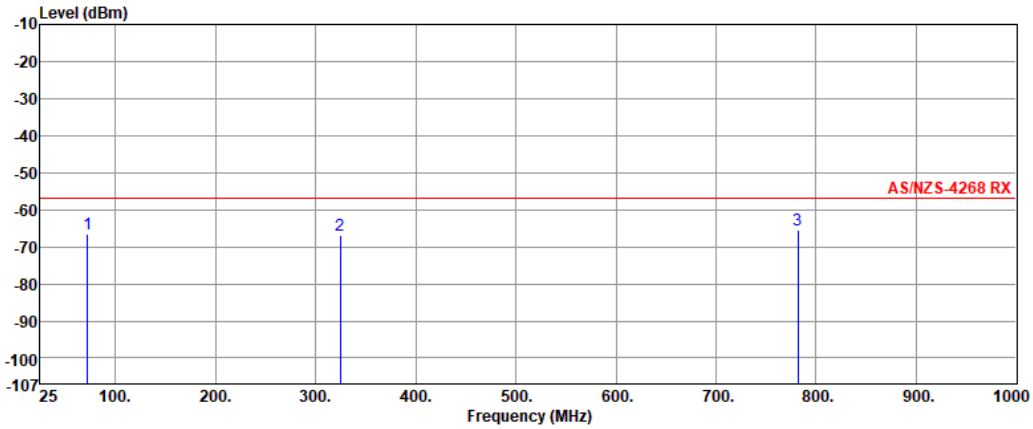
	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV
1	0.15	37.89	59.00	-21.11	19.06	18.83
2	13.05	36.36	59.00	-22.64	21.50	14.86
3	19.78	37.14	59.00	-21.86	21.93	15.21

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Emissions (25MHz ~ 1GHz)

Modulation	11g	**Test Freq. (MHz)**	2412
Polarization	Horizontal		

Test By :Hugo Zhen Temperature:25 Humidity(%):64

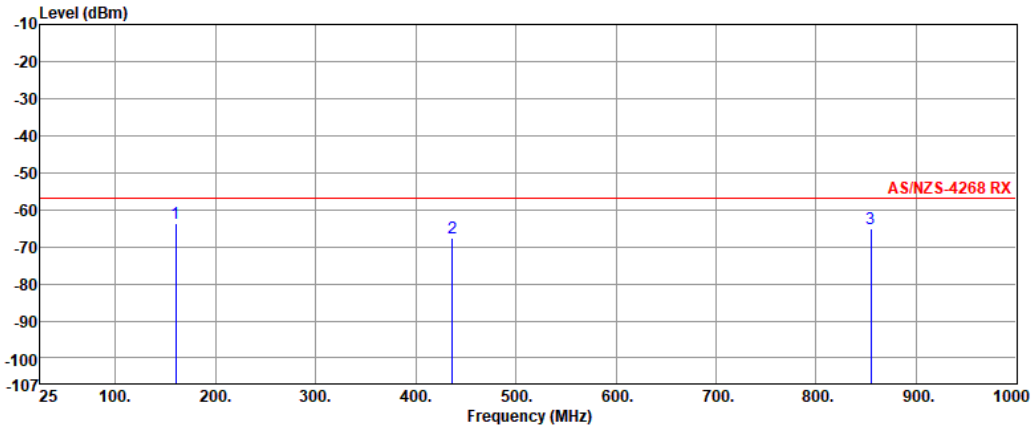


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	72.40	-66.61	-57.00	-9.61	-4.48	-62.13
2	324.34	-66.93	-57.00	-9.93	-0.36	-66.57
3	782.03	-65.51	-57.00	-8.51	9.28	-74.79

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11g	**Test Freq. (MHz)**	2412
Polarization	Vertical		

Test By :Hugo Zhen Temperature:25 Humidity(%):64

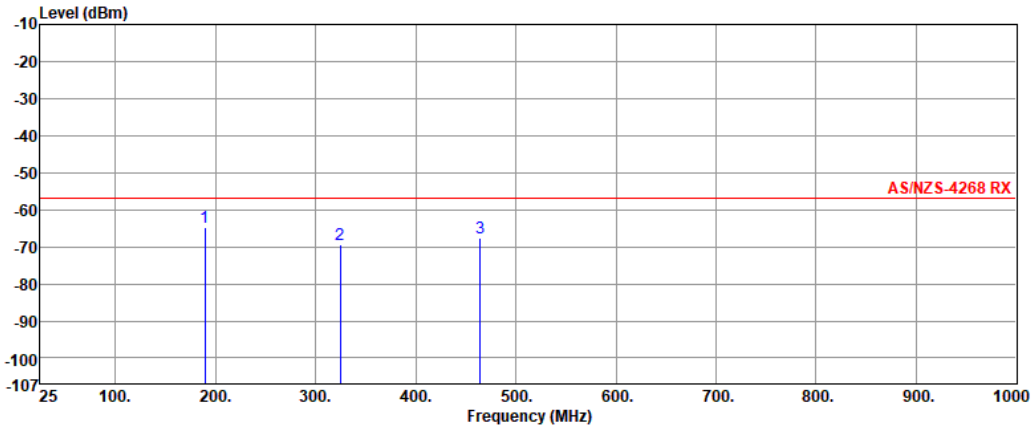


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	159.99	-63.52	-57.00	-6.52	0.82	-64.34
2	436.31	-67.80	-57.00	-10.80	2.48	-70.28
3	854.84	-65.11	-57.00	-8.11	10.08	-75.19

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11g	**Test Freq. (MHz)**	2472
Polarization	Horizontal		

Test By :Hugo Zhen Temperature:25 Humidity(%):64

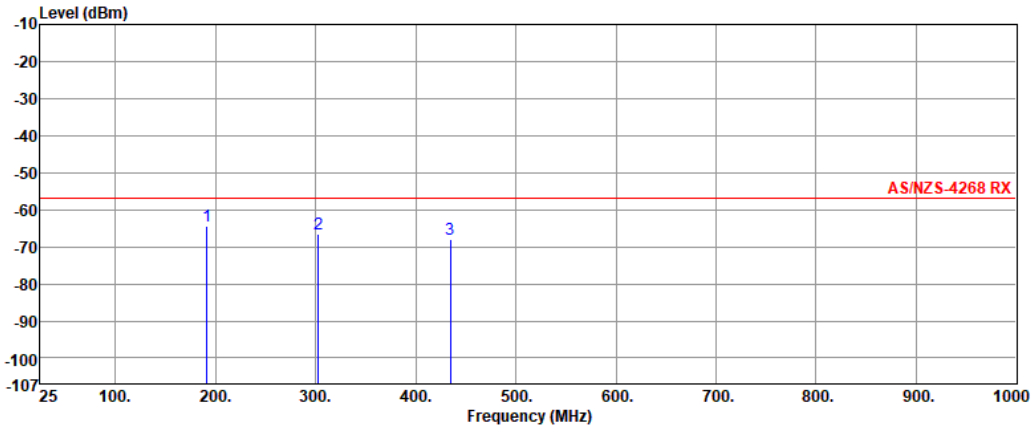


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	189.35	-64.88	-57.00	-7.88	-4.00	-60.88
2	324.47	-69.59	-57.00	-12.59	-0.35	-69.24
3	464.74	-67.64	-57.00	-10.64	3.22	-70.86

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11g	Test Freq. (MHz)	2472
Polarization	Vertical		

Test By :Hugo Zhen Temperature:25 Humidity(%):64

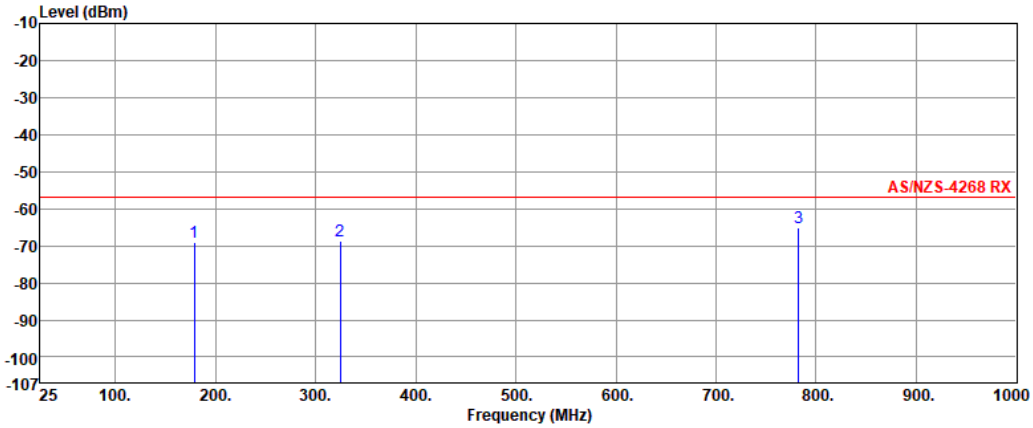


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	191.51	-64.45	-57.00	-7.45	-4.66	-59.79
2	302.60	-66.45	-57.00	-9.45	-0.77	-65.68
3	434.93	-67.83	-57.00	-10.83	2.39	-70.22

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA	**Test Freq. (MHz)**	2412
Polarization	Horizontal		

Test By :Hugo Zhen Temperature:25 Humidity(%):64

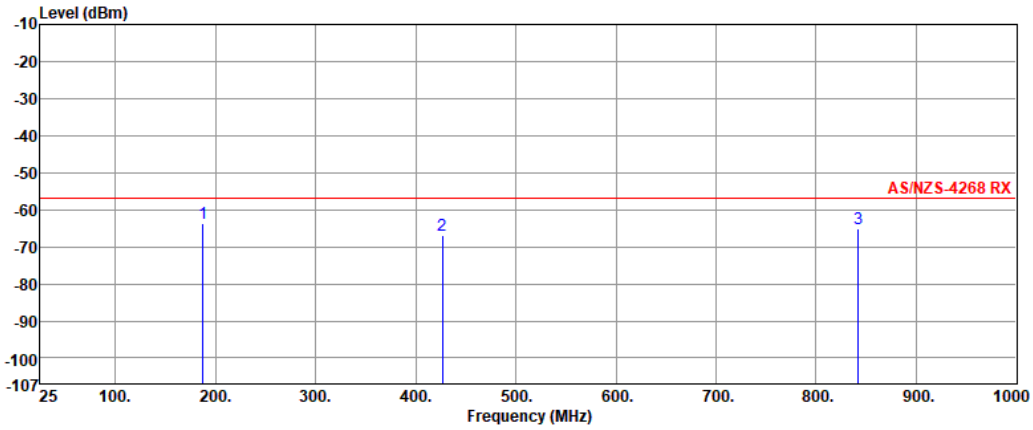


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	179.07	-69.23	-57.00	-12.23	-2.55	-66.68
2	324.68	-68.81	-57.00	-11.81	-0.34	-68.47
3	782.76	-65.13	-57.00	-8.13	9.16	-74.29

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA	Test Freq. (MHz)	2412
Polarization	Vertical		

Test By :Hugo Zhen Temperature:25 Humidity(%):64

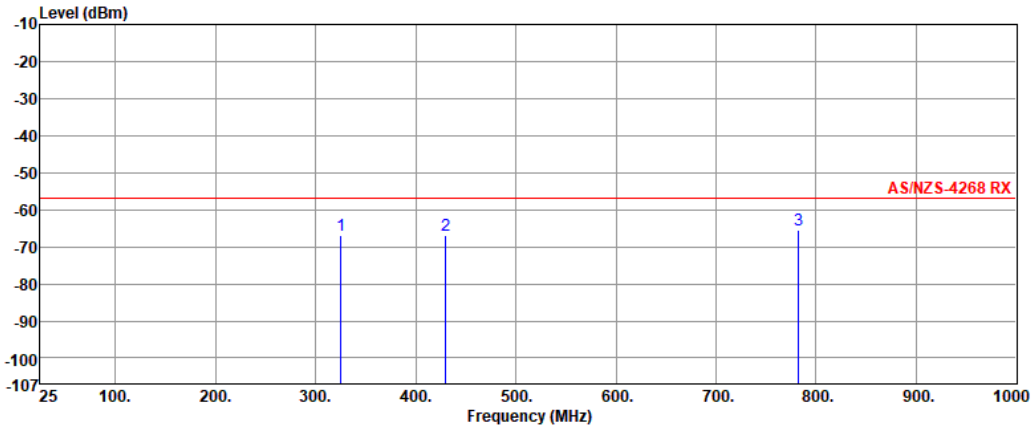


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	187.63	-63.63	-57.00	-6.63	-4.47	-59.16
2	426.49	-67.02	-57.00	-10.02	2.68	-69.70
3	842.40	-65.02	-57.00	-8.02	10.15	-75.17

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA	Test Freq. (MHz)	2472
Polarization	Horizontal		

Test By :Hugo Zhen Temperature:25 Humidity(%):64

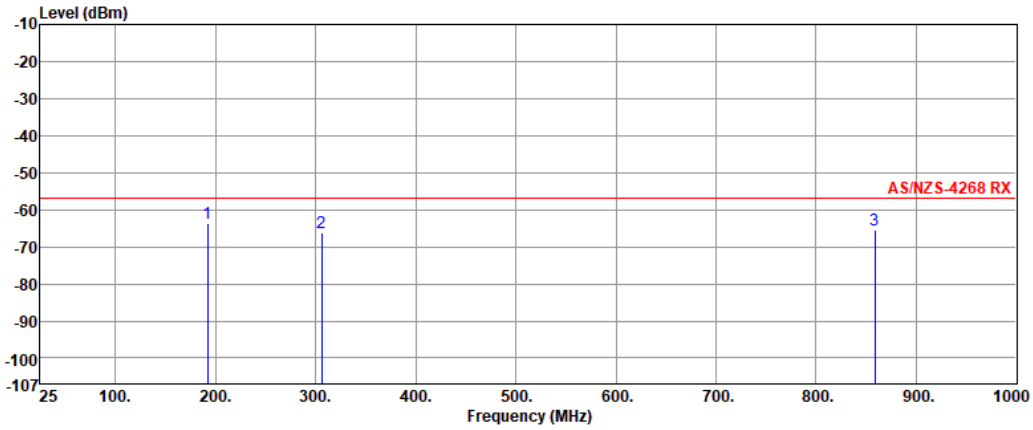


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	324.99	-67.05	-57.00	-10.05	-0.30	-66.75
2	429.93	-67.00	-57.00	-10.00	3.03	-70.03
3	782.43	-65.63	-57.00	-8.63	9.21	-74.84

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA	**Test Freq. (MHz)**	2472
Polarization	Vertical		

Test By :Hugo Zhen Temperature:25 Humidity(%):64



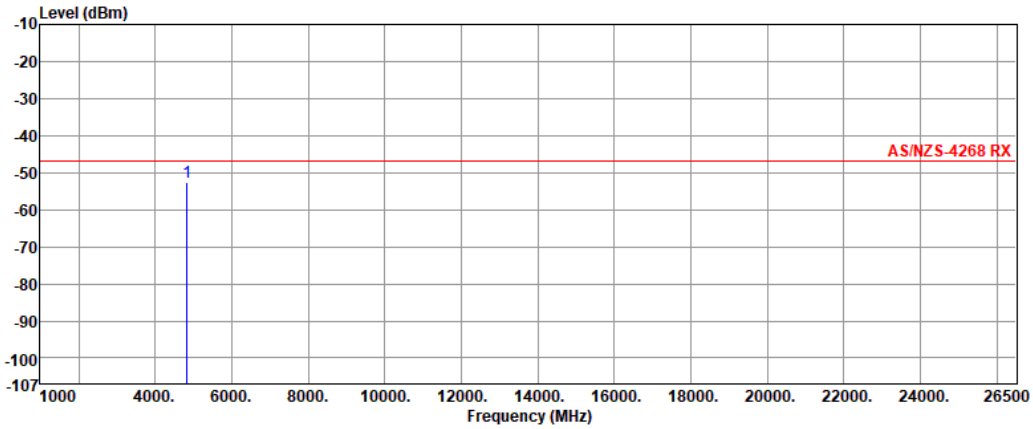
	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	191.95	-63.71	-57.00	-6.71	-4.66	-59.05
2	305.76	-66.22	-57.00	-9.22	-0.63	-65.59
3	858.64	-65.46	-57.00	-8.46	10.79	-76.25

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Emissions (Above 1GHz)

Modulation	11g	**Test Freq. (MHz)**	2412
Polarization	Horizontal		

Test By :Hugo Zhen Temperature:25 Humidity(%):64

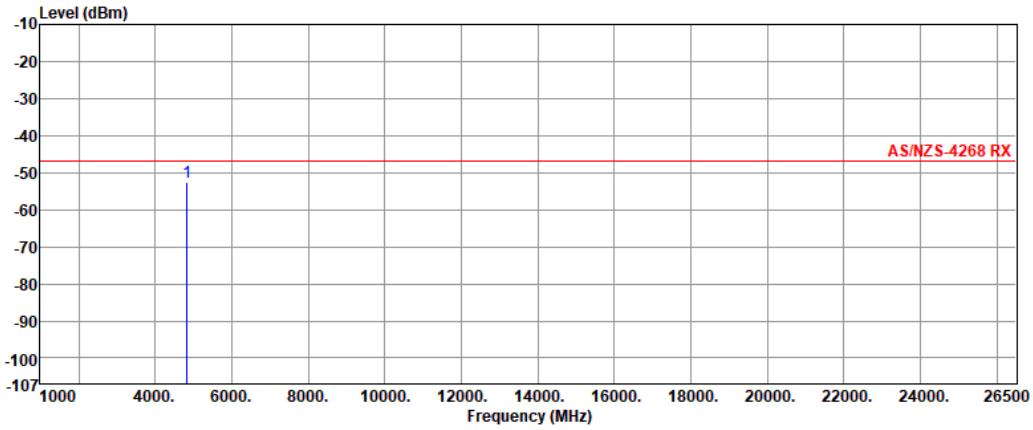


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4824.17	-52.77	-47.00	-5.77	13.76	-66.53

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11g	**Test Freq. (MHz)**	2412
Polarization	Vertical		

Test By :Hugo Zhen Temperature:25 Humidity(%):64

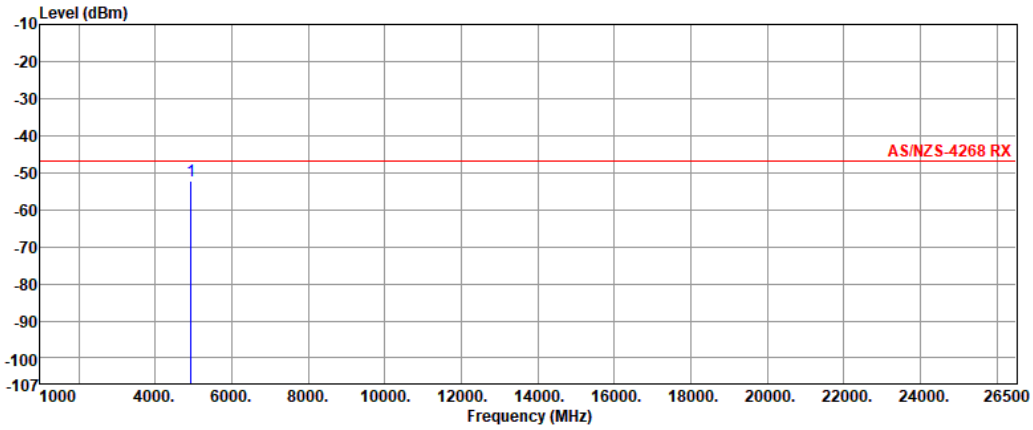


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4824.44	-52.52	-47.00	-5.52	13.70	-66.22

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11g	Test Freq. (MHz)	2472
Polarization	Horizontal		

Test By :Hugo Zhen Temperature:25 Humidity(%):64

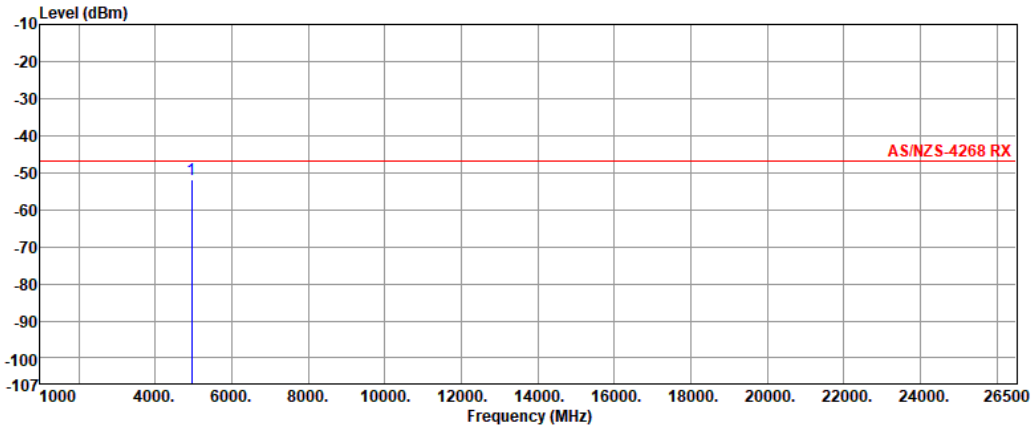


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4944.01	-52.18	-47.00	-5.18	13.85	-66.03

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11g	Test Freq. (MHz)	2472
Polarization	Vertical		

Test By :Hugo Zhen Temperature:25 Humidity(%):64

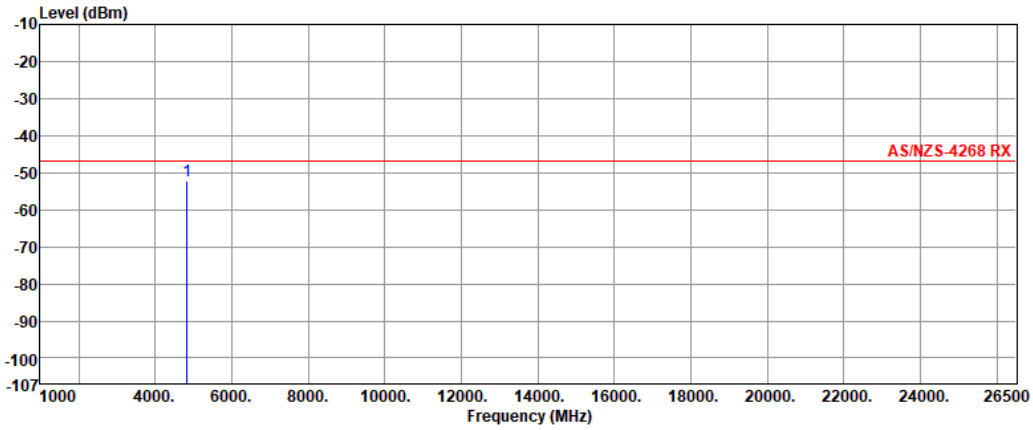


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4944.36	-52.05	-47.00	-5.05	13.32	-65.37

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA	Test Freq. (MHz)	2412
Polarization	Horizontal		

Test By :Hugo Zhen Temperature:25 Humidity(%):64

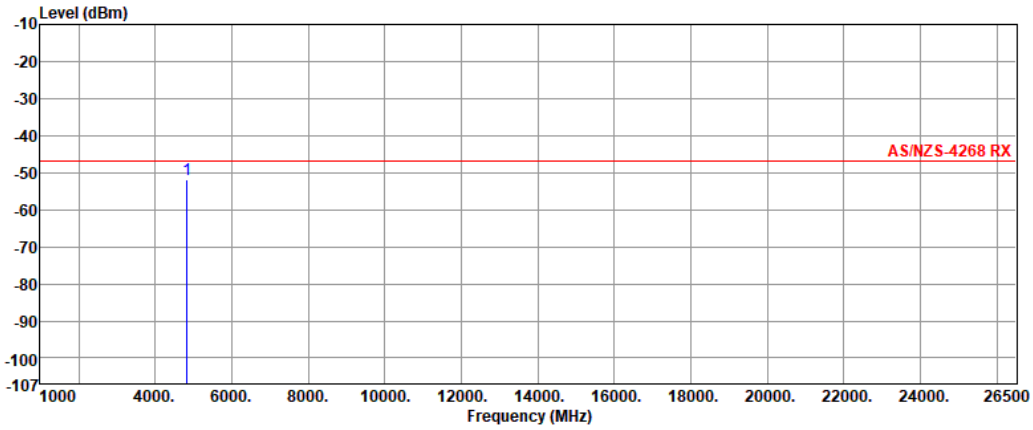


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4824.19	-52.09	-47.00	-5.09	13.76	-65.85

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA	**Test Freq. (MHz)**	2412
Polarization	Vertical		

Test By :Hugo Zhen Temperature:25 Humidity(%):64

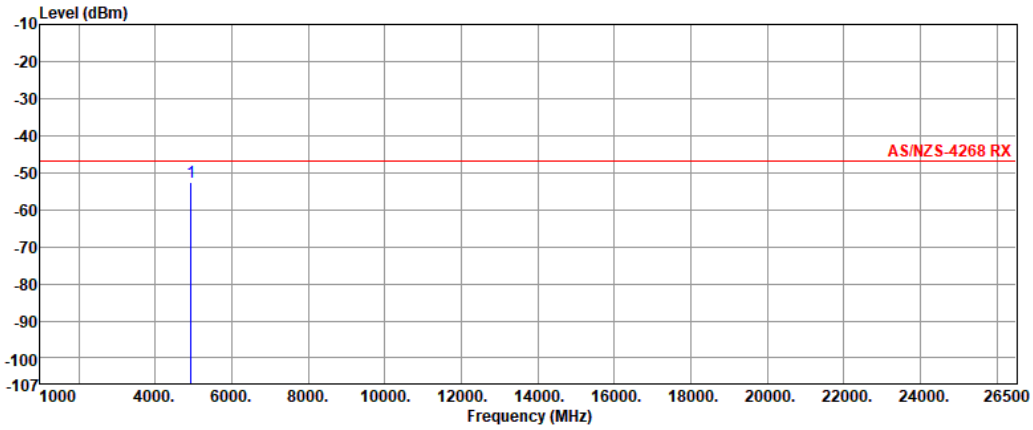


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4824.15	-52.01	-47.00	-5.01	13.70	-65.71

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA	Test Freq. (MHz)	2472
Polarization	Horizontal		

Test By :Hugo Zhen Temperature:25 Humidity(%):64

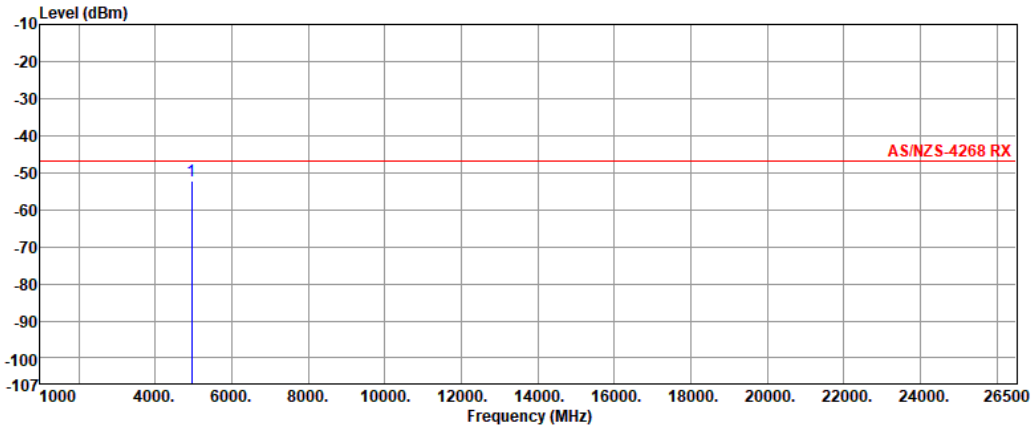


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4943.19	-52.66	-47.00	-5.66	13.85	-66.51

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA	Test Freq. (MHz)	2472
Polarization	Vertical		

Test By :Hugo Zhen Temperature:25 Humidity(%):64



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4944.43	-52.21	-47.00	-5.21	13.32	-65.53

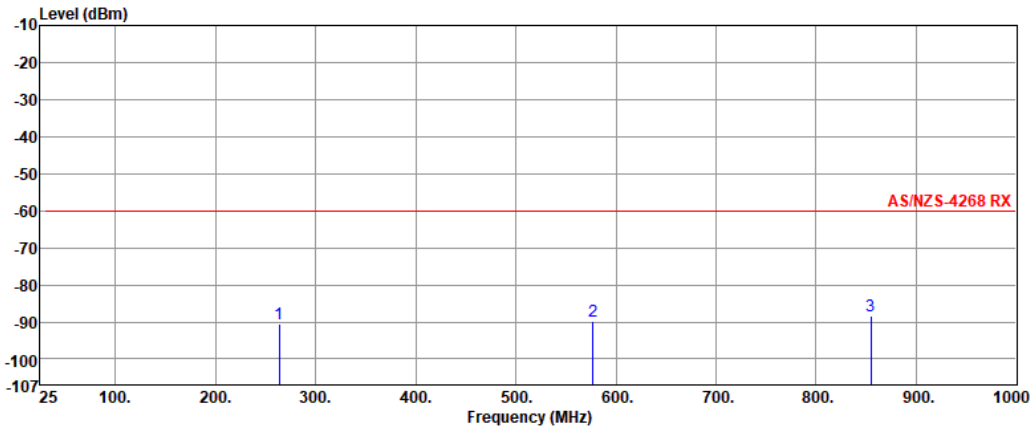
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

ANT0

Emissions (25MHz ~ 1GHz)

Modulation	11g
Test Freq. (MHz)	2412

Test By :Hugo Zhen Temperature:25 Humidity(%):64

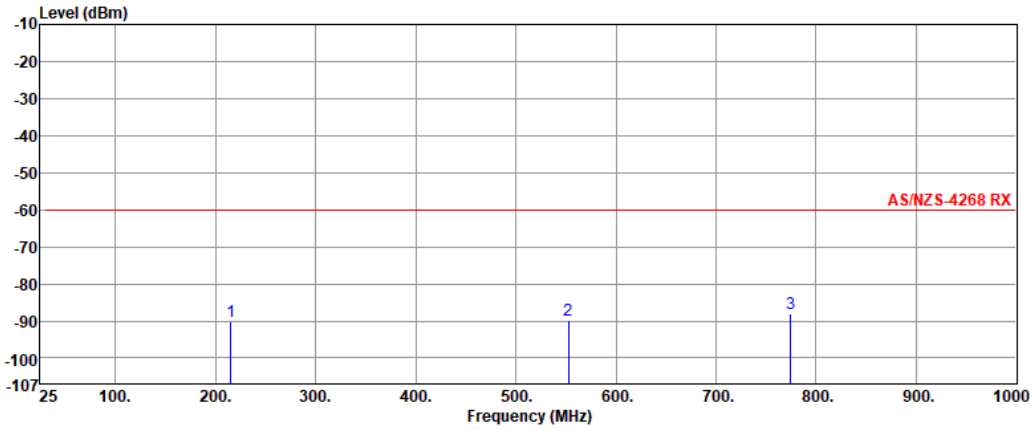


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	263.88	-90.42	-60.01	-30.41	0.00	-90.42
2	576.85	-89.88	-60.01	-29.87	0.00	-89.88
3	854.73	-88.55	-60.01	-28.54	0.00	-88.55

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11g
Test Freq. (MHz)	2472

Test By :Hugo Zhen Temperature:25 Humidity(%):64

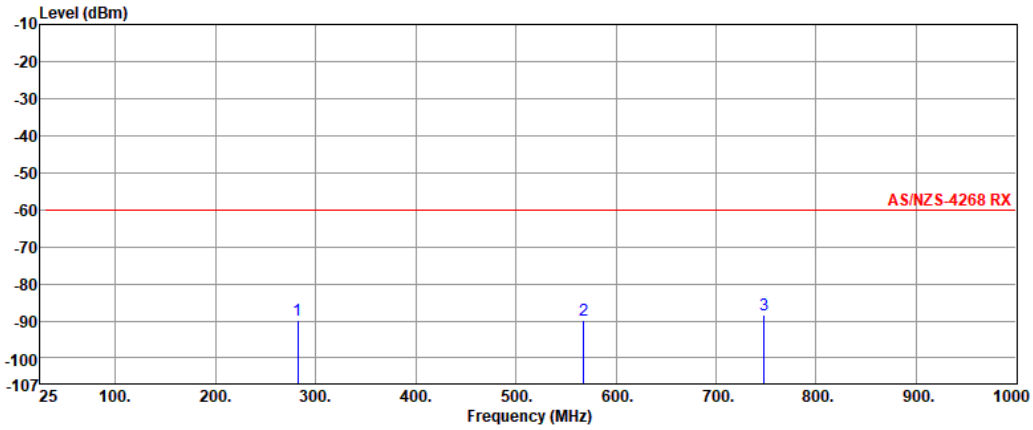


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	215.13	-90.28	-60.01	-30.27	0.00	-90.28
2	552.48	-89.73	-60.01	-29.72	0.00	-89.73
3	774.78	-88.06	-60.01	-28.05	0.00	-88.06

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA
Test Freq. (MHz)	2412

Test By :Hugo Zhen Temperature:25 Humidity(%):64

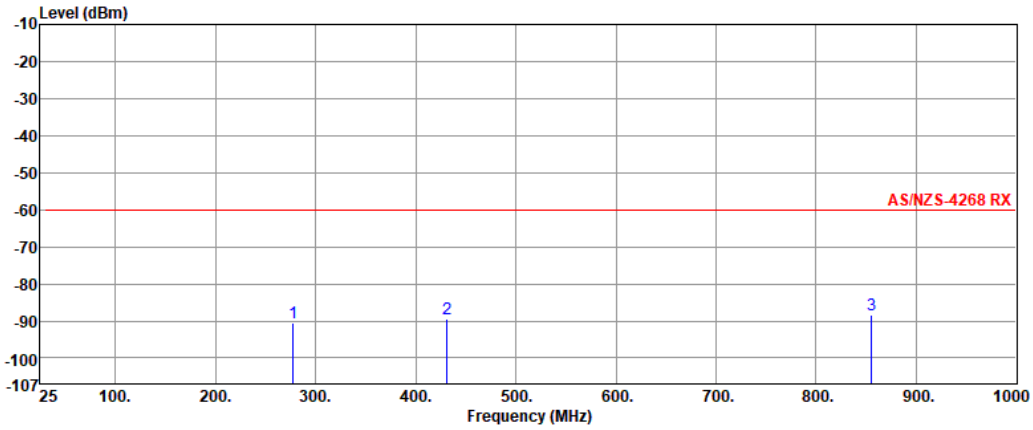


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	282.40	-89.93	-60.01	-29.92	0.00	-89.93
2	568.08	-89.73	-60.01	-29.72	0.00	-89.73
3	748.45	-88.54	-60.01	-28.53	0.00	-88.54

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA
Test Freq. (MHz)	2472

Test By :Hugo Zhen Temperature:25 Humidity(%):64



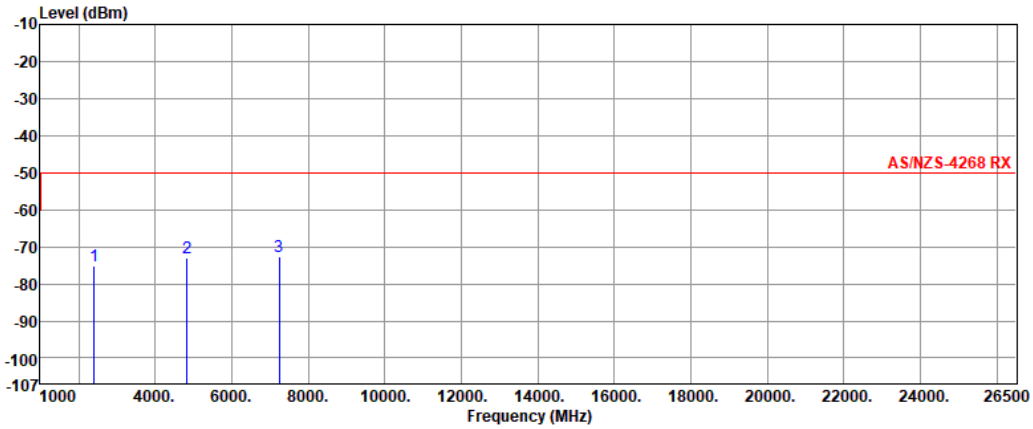
	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	277.53	-90.65	-60.01	-30.64	0.00	-90.65
2	431.58	-89.49	-60.01	-29.48	0.00	-89.49
3	855.70	-88.26	-60.01	-28.25	0.00	-88.26

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Emissions (Above 1GHz)

Modulation	11g
Test Freq. (MHz)	2412

Test By :Hugo Zhen Temperature:25 Humidity(%):64

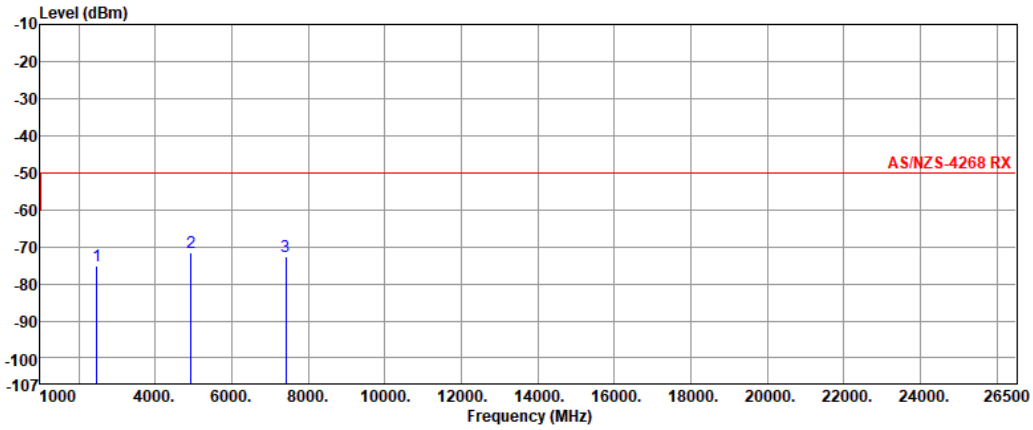


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	2411.48	-75.19	-50.01	-25.18	0.00	-75.19
2	4823.78	-73.06	-50.01	-23.05	0.00	-73.06
3	7235.92	-72.75	-50.01	-22.74	0.00	-72.75

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11g
Test Freq. (MHz)	2472

Test By :Hugo Zhen Temperature:25 Humidity(%):64

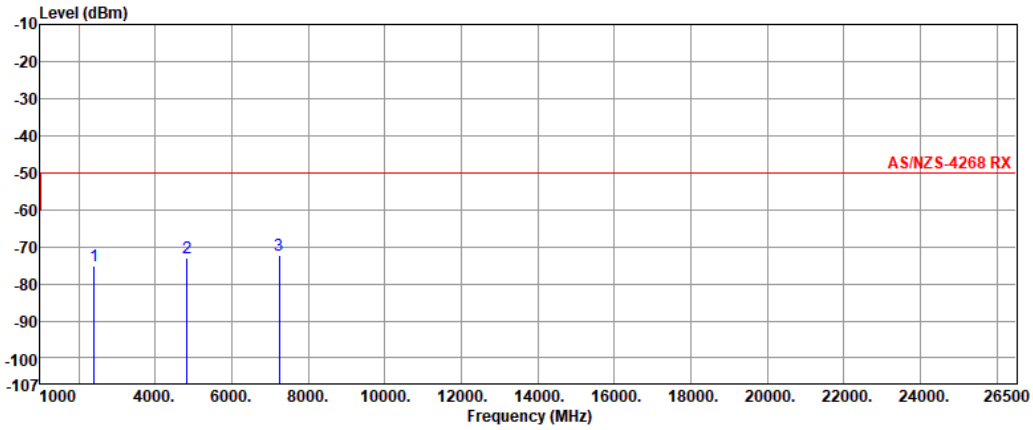


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	2472.13	-75.14	-50.01	-25.13	0.00	-75.14
2	4943.91	-71.58	-50.01	-21.57	0.00	-71.58
3	7415.91	-72.54	-50.01	-22.53	0.00	-72.54

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA
Test Freq. (MHz)	2412

Test By :Hugo Zhen Temperature:25 Humidity(%):64

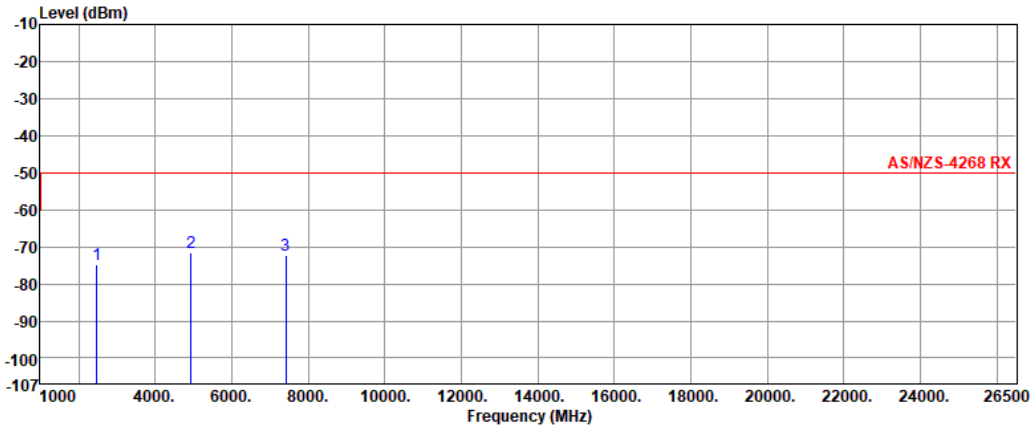


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	2411.77	-75.24	-50.01	-25.23	0.00	-75.24
2	4823.84	-73.05	-50.01	-23.04	0.00	-73.05
3	7235.82	-72.37	-50.01	-22.36	0.00	-72.37

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA
Test Freq. (MHz)	2472

Test By :Hugo Zhen Temperature:25 Humidity(%):64



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	2472.05	-74.64	-50.01	-24.63	0.00	-74.64
2	4942.87	-71.73	-50.01	-21.72	0.00	-71.73
3	7415.36	-72.13	-50.01	-22.12	0.00	-72.13

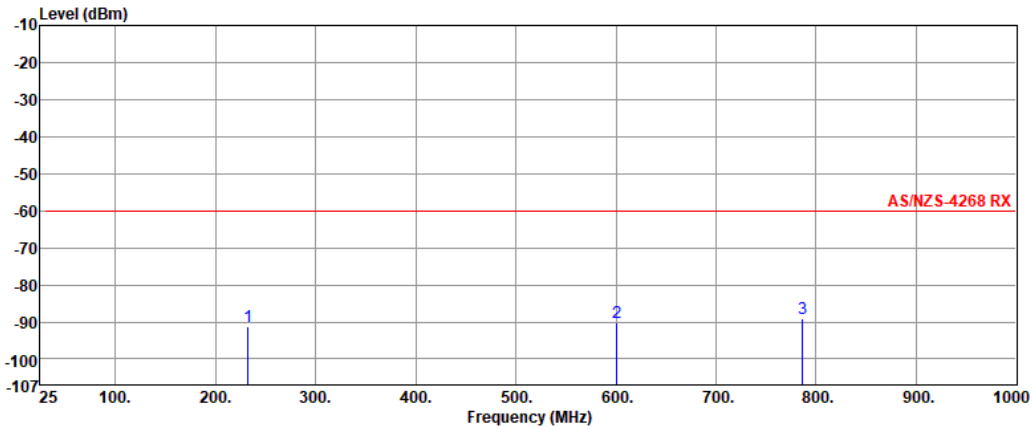
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

ANT1

Emissions (Below 1GHz)

Modulation	11g
Test Freq. (MHz)	2412

Test By :Hugo Zhen Temperature:25 Humidity(%):64

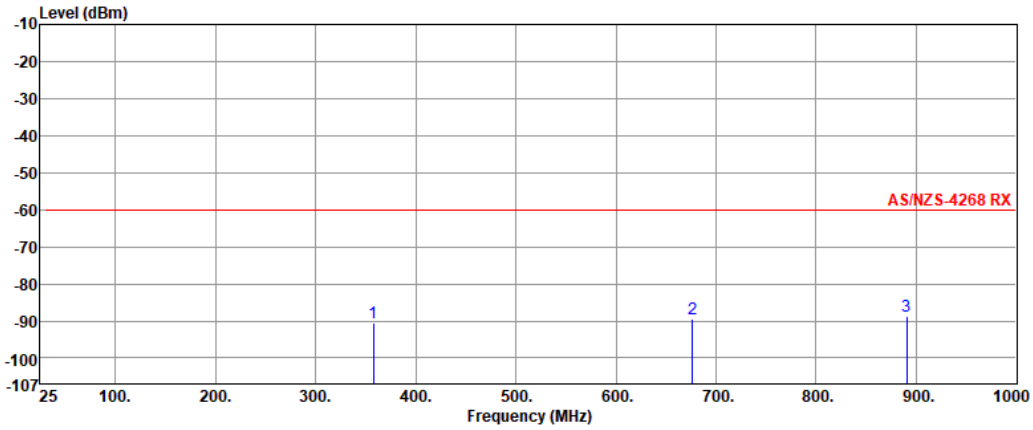


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	232.68	-91.13	-60.01	-31.12	0.00	-91.13
2	601.23	-90.27	-60.01	-30.26	0.00	-90.27
3	786.48	-89.21	-60.01	-29.20	0.00	-89.21

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11g
Test Freq. (MHz)	2472

Test By :Hugo Zhen Temperature:25 Humidity(%):64

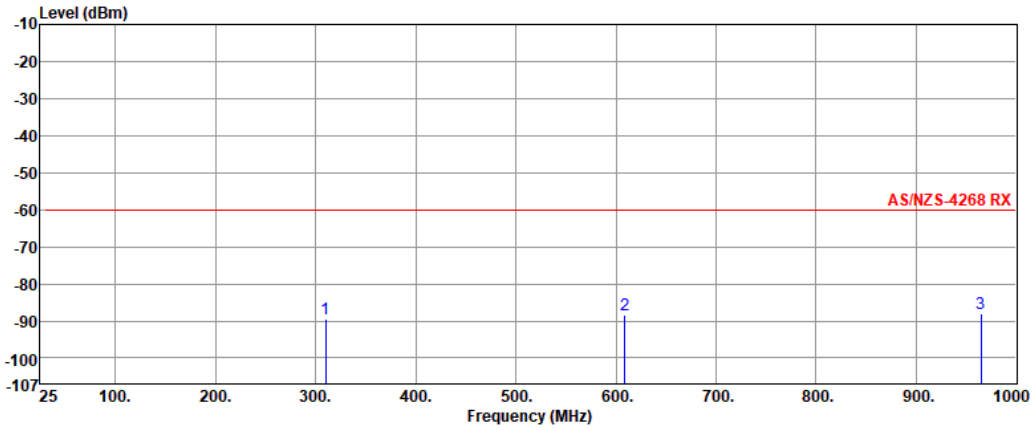


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	357.48	-90.64	-60.01	-30.63	0.00	-90.64
2	676.30	-89.37	-60.01	-29.36	0.00	-89.37
3	890.80	-88.61	-60.01	-28.60	0.00	-88.61

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA
Test Freq. (MHz)	2412

Test By :Hugo Zhen Temperature:25 Humidity(%):64

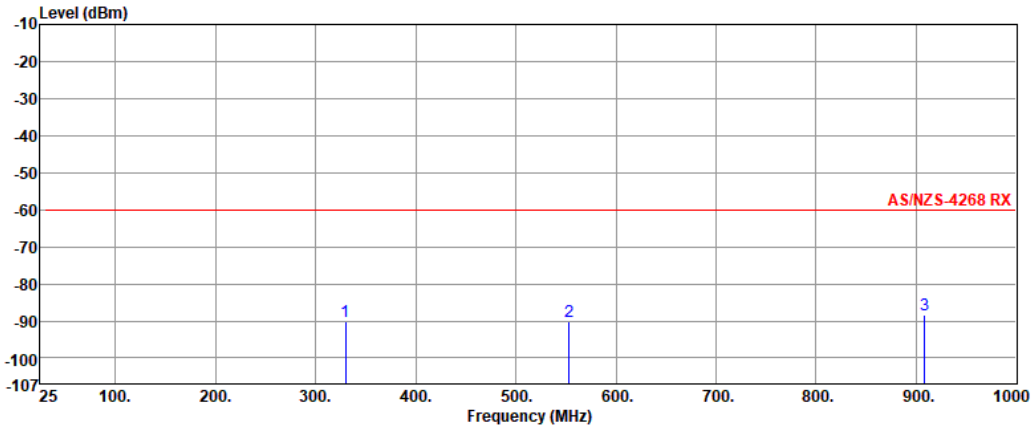


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	309.70	-89.34	-60.01	-29.33	0.00	-89.34
2	609.03	-88.35	-60.01	-28.34	0.00	-88.35
3	964.90	-87.92	-60.01	-27.91	0.00	-87.92

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA
Test Freq. (MHz)	2472

Test By :Hugo Zhen Temperature:25 Humidity(%):64



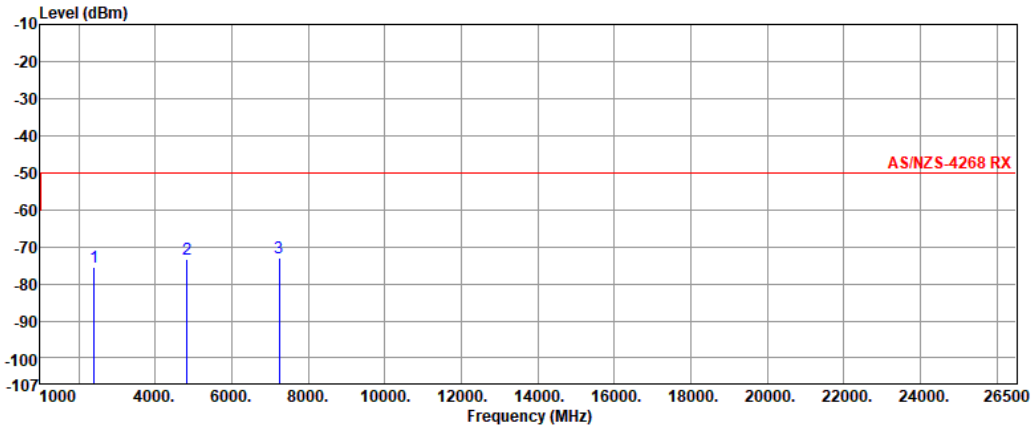
	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	330.18	-90.20	-60.01	-30.19	0.00	-90.20
2	553.45	-90.11	-60.01	-30.10	0.00	-90.11
3	908.35	-88.38	-60.01	-28.37	0.00	-88.38

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Emissions (Above 1GHz)

Modulation	11g
Test Freq. (MHz)	2412

Test By :Hugo Zhen Temperature:25 Humidity(%):64

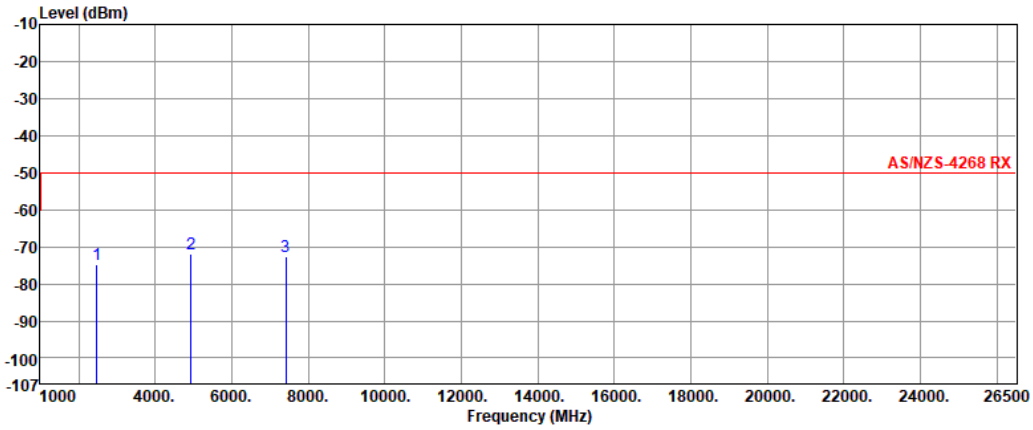


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	2412.18	-75.34	-50.01	-25.33	0.00	-75.34
2	4823.77	-73.41	-50.01	-23.40	0.00	-73.41
3	7235.82	-72.96	-50.01	-22.95	0.00	-72.96

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11g
Test Freq. (MHz)	2472

Test By :Hugo Zhen Temperature:25 Humidity(%):64

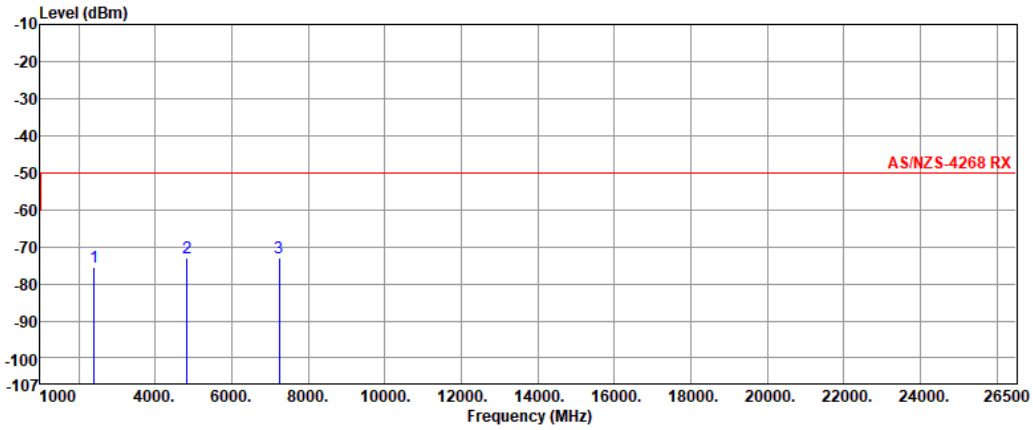


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	2472.11	-74.64	-50.01	-24.63	0.00	-74.64
2	4943.89	-72.06	-50.01	-22.05	0.00	-72.06
3	7415.67	-72.62	-50.01	-22.61	0.00	-72.62

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA
Test Freq. (MHz)	2412

Test By :Hugo Zhen Temperature:25 Humidity(%):64

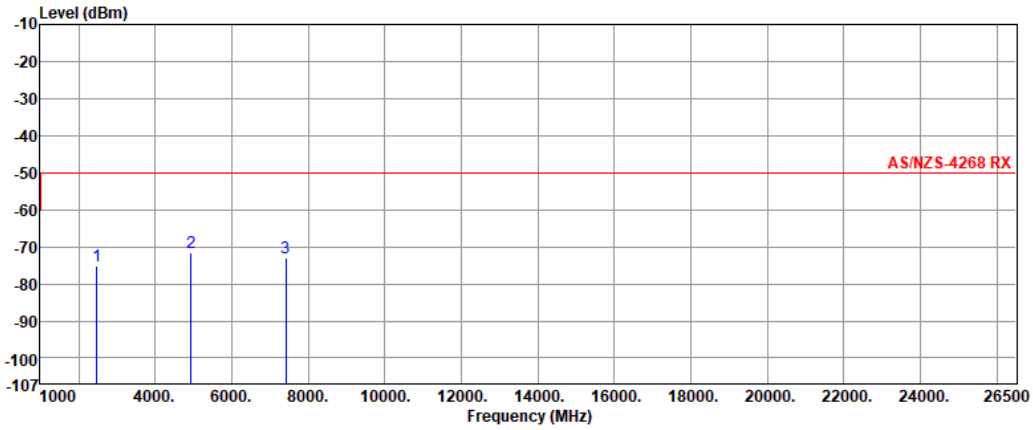


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	2412.18	-75.39	-50.01	-25.38	0.00	-75.39
2	4824.06	-72.88	-50.01	-22.87	0.00	-72.88
3	7235.75	-72.85	-50.01	-22.84	0.00	-72.85

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA
Test Freq. (MHz)	2472

Test By :Hugo Zhen Temperature:25 Humidity(%):64



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	2471.94	-75.21	-50.01	-25.20	0.00	-75.21
2	4943.85	-71.39	-50.01	-21.38	0.00	-71.39
3	7415.89	-73.00	-50.01	-22.99	0.00	-73.00

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)