

RF TEST REPORT

FCC ID: 2BWVL-HL20W1

Test Report No.....: RF260324003-02-004

Product(s) Name.....: STREAMING PROJECTOR

Model(s).....: HL20W1, HL20W1-H1, HL20W1-H2, HL20W1-H3, HL20W1-H4,
HL20W1-H5, GL20W1, RY100, RY200, RY300, RY500, RY700, RY800,
FS217, AX20W1, PSP-01A

Trade Mark.....: N/A

Applicant.....: Shenzhen Roonwin Technology Co., Ltd

Address.....: Rm 402, North Tower, Huada Technology Building, Hi-Tech Zone,
Nanshan, Shenzhen, Guangdong, China

Receipt Date.....: 2026.03.30

Test Date.....: 2026.04.20 ~ 2026.05.11

Issued Date.....: 2026.05.13

Standards.....: 47 CFR FCC Part 15, Subpart E(Section 15.407);
ANSI C63.10:2020

Testing Laboratory.....: Shenzhen Haiyun Standard Technical Co., Ltd.

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<i>Jason Huang</i>	<i>Black Ding</i>	<i>Tim Zhang</i>	

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History of this test report

Original Report Issue Date: 2026.05.13

- ☒ No additional attachment
- ☐ Additional attachments were issued following record

Attachment No.	Issue Date	Description

1. General Information

1.1 Applicant

Shenzhen Roonwin Technology Co., Ltd

1001, Wanhai Building, No.1031, Gongye 5th Road, Nanshan, Shenzhen, China

1.2 Manufacturer

Shenzhen Roonwin Technology Co., Ltd

1001, Wanhai Building, No.1031, Gongye 5th Road, Nanshan, Shenzhen, China

1.3 Basic Description of Equipment Under Test

Sample No.	POC260324003-S001	
Product name	STREAMING PROJECTOR	
Model name	HL20W1, HL20W1-H1, HL20W1-H2, HL20W1-H3, HL20W1-H4, HL20W1-H5, GL20W1, RY100, RY200, RY300, RY500, RY700, RY800, FS217, AX20W1, PSP-01A	
Test model	HL20W1	
Model difference	Only the model name is different.	
Hardware Version	ZJ. GLP1. RY 20W	
Software Version	V1.1.0	
Trade Mark	N/A	
Power supply	DC 12V from adapter & DC 5V from USB-C port & DC 11.1V from battery	
Adapter	Model: WEC-48WEAP-12000375BA Input: 100-240V~ 50/60Hz 1.5A Max Output: 12.0V==3.75A	
Operate temperature	0°C-40°C	
EUT Stage	○ Product Unit	● Final-Sample
Operating Band & Max Conducted Output Power	5150MHz ~5250MHz	802.11AC20: 15.90dBm (0.0389W)
	5250MHz ~5350MHz	802.11AC20: 15.08dBm(0.0322W)
	5470MHz ~5725MHz	802.11AC20: 15.89dBm(0.0388W)
	5725MHz ~5850MHz	802.11AC20: 11.32dBm (0.0136W)
Product Type	IEEE 802.11a/n/ac/ax: WLAN (SISO)	
Nominal Bandwidth	20MHz, 40MHz	
Modulation	OFDM	
Antenna gain	1.79dBi	
Antenna type	FPC Antenna	
Data Rate (Mbps)	IEEE 802.11a mode: 6/9/12/18/24/36/48/54 IEEE 802.11n mode: up to 150 IEEE 802.11ac mode: up to 200 IEEE 802.11ax mode: up to 286.8	
Type of Device	Slaver device	

Channel Information			
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	802.11a /n /ac /ax (20MHz)	5180-5240	36-48
5250-5350		5260-5320	52-64
5470-5725		5500-5700	100-140
5725-5850		5745-5825	149-165
5150-5250	802.11n /ac /ax (40MHz)	5190-5230	38-46
5250-5350		5270-5310	54-62
5470-5725		5510-5670	102-134
5725-5850		5755-5795	151-159

2. Summary of Test Results

2.1 Summary of Test Items

47 CFR FCC Part 15, Subpart E (Section 15.407)			
Test item	Standard	Results	Remarks
AC Power Conducted Emission	15.207 15.407(b)	Pass	Meet the requirement of the limit
Radiated Emission	15.205(a) 15.209(a) 15.407(b)	Pass	Meet the requirement of the limit
Antenna Requirements	15.203	Compliance	Note
Spectrum Bandwidth	15.407(a) 15.407(e)	Pass	Meet the requirement of the limit
Conducted Output Power	15.407(a)	Pass	Meet the requirement of the limit
Power Spectral Density	15.407(a)	Pass	Meet the requirement of the limit
Note: The EUT has an external antenna and the antenna connector is designed RP-SMA antenna interface.			

2.2 Application of Standard

47 CFR FCC Part 15, Subpart E

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

ANSI C63.10:2020

2.3 Test Instruments

No.	Name of Equipment	Manufacturer	Model Number	Serial Number	Inventory No.	Last Calibration	Due Calibration
Radiated Emission							
1	Test receiver	Rohde&Schwarz	ESU	100184	JLE011	2026/2/27	2027/2/26
2	Log periodic antenna	Schwarzbeck	VULB 9168	1151	JLE012	2025/4/12	2028/4/11
3	Low frequency amplifier	/	LNA 0920N	2014	JLE023	2026/2/27	2027/2/26
4	High frequency amplifier	Schwarzbeck	BBV 9718	9718-284	JLE024	2026/2/27	2027/2/26
5	Horn Antenna	SCHWARZBECK	BBHA 9120 D	02670	JLE028	2025/4/12	2028/4/11
6	Temp&Humidity Recorder	Meideshi	JR900	/	JLE021	2026/4/8	2027/4/7
7	Horn Antenna	SCHWARZBECK	BBHA 9170	9170#685	JLE029	2024/7/15	2027/7/14
8	Loop Antenna	SCHWARZBECK	FMZB1519B	00029	JLE030	2024/7/15	2027/7/14
9	Broadband preamplifier	Schwarzbeck	BBV9721	9721-019	JLE025	2026/2/27	2027/2/26
10	Test software	Farad Technology Co., Ltd	EZ-EMC Ver.TW-03A2				
Conducted Emission							
1	LISN	Rohde&Schwarz	ENV216	100075	JLE002	2026/2/27	2027/2/26
2	ISN	Schwarzbeck	CATE 5 8158	#171	JLE003	2026/2/27	2027/2/26
3	ISN	Schwarzbeck	CAT 3 8158	00187	JLE032	2026/2/27	2027/2/26
4	Test receiver	Rohde&Schwarz	ESCI	100718	JLE010	2026/2/27	2027/2/26
5	Pulse limiter	Rohde&Schwarz	ESH3-Z2	102299	JLE047	2026/2/27	2027/2/26
6	Temp&Humidity Recorder	Meideshi	JR900	/	JLE020	2026/4/8	2027/4/7
7	Test software	Farad Technology Co., Ltd	EZ-EMC Ver.TW-03A2				
RF Conducted Emissions							
1	MXA Signal Analyzer	Keysight	N9010A	MY51440158	JLE087	2025/9/15	2026/9/14
2	RF Control Unit	dsusoft	JS0806-2	21G8060449	JLE053	2026/2/27	2027/2/26
3	power supply unit	dsusoft	JS0806-4ADC	N/A	JLE055	2026/2/27	2027/2/26
4	VXG Signal Generator	Keysight	N5182B	MY59100855	JLE068	2026/4/11	2027/4/10
5	EXG Analog Signal Generator	Keysight	N5173B	MY59101282	JLE052	2026/2/27	2027/2/26
6	Wideband Radio Communication Tester	Rohde&Schwarz	CMW500	1201.0002K50-116064-Dt	JLE054	2026/2/27	2027/2/26
7	Test software	dsusoft	JS1120-3 Ver.3.2.22.0				

2.4 Operation Mode

Transmit Operating Mode					Transmit Multiple Antennas					
☒	Operating mode 1 (single antenna)				☒	1TX				
☐	Operating mode 2 (multiple antenna, no beam forming)				☐	2TX	☐	3TX	☐	4TX
☐	Operating mode 3 (multiple antenna, with beam forming)				☐	2TX	☐	3TX	☐	4TX
☒	802.11a	Operating mode	☒	1TX	☐	2TX	☐	3TX	☐	4TX
☒	802.11n(20MHz)	Operating mode	☒	1TX	☐	2TX	☐	3TX	☐	4TX
☒	802.11n(40MHz)	Operating mode	☒	1TX	☐	2TX	☐	3TX	☐	4TX
☒	802.11ac(20MHz)	Operating mode	☒	1TX	☐	2TX	☐	3TX	☐	4TX
☒	802.11ac(40MHz)	Operating mode	☒	1TX	☐	2TX	☐	3TX	☐	4TX
☒	802.11ax(20MHz)	Operating mode	☒	1TX	☐	2TX	☐	3TX	☐	4TX
☒	802.11ax(40MHz)	Operating mode	☒	1TX	☐	2TX	☐	3TX	☐	4TX

Note: All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.

2.5 Test Condition

Test Item	Environmental conditions	Input Power	Tested by
AC Power Conducted Emission	24.0°C, 57% RH	AC 120V/60Hz	Keith Huang
Radiated Emission	24.0°C, 54% RH	AC 120V/60Hz	Lemon He
Spectrum Bandwidth	23.4°C, 52% RH	DC 11.1V	Elio Lin
Conducted Power	23.4°C, 52% RH	DC 11.1V	Elio Lin
Power Spectral Density	23.4°C, 52% RH	DC 11.1V	Elio Lin

Note: EUT supply voltage AC 120V/60Hz.

The applicant declare the operating environment of EUT as below:

Normal conditions: AC 120V/60Hz, 0~40°C

2.6 Duty Cycle of Test Signal

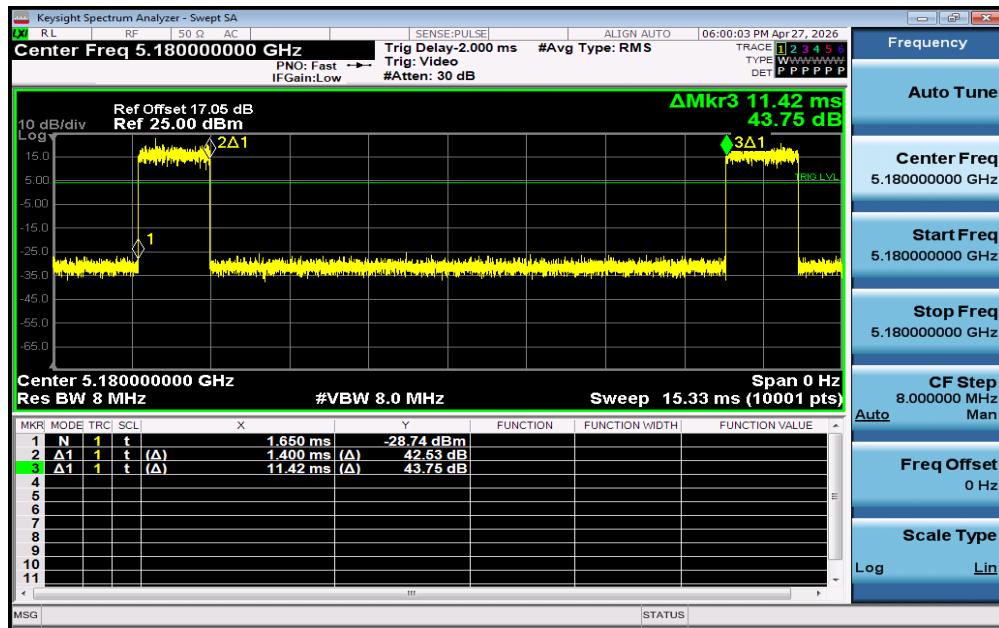
If duty cycle is $\geq 98\%$, duty factor is not required.

If duty cycle is $< 98\%$, duty factor shall be considered.

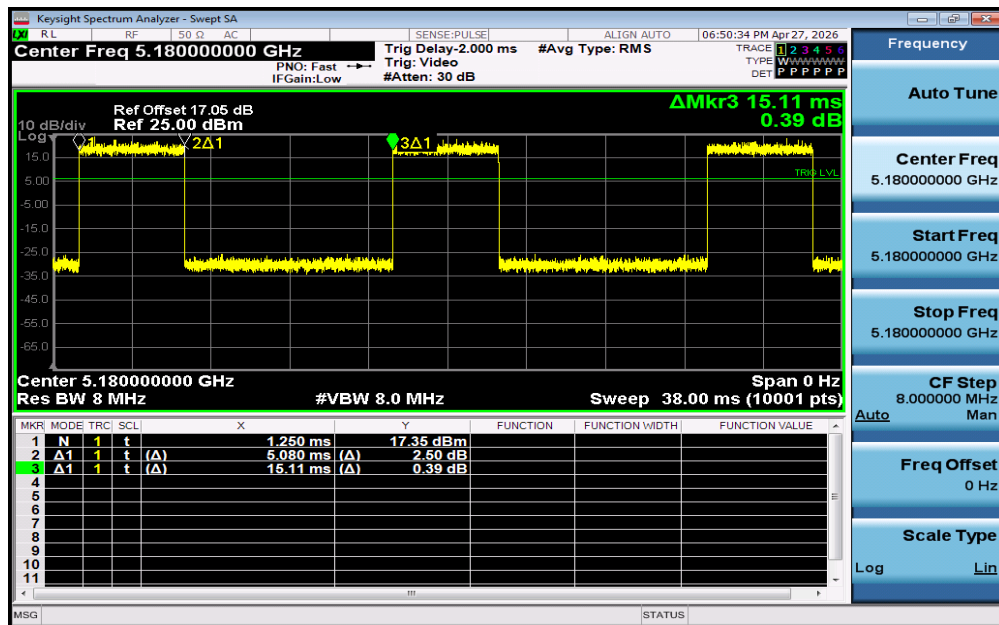
All the duty factor of other test mode have been considered.

Test Mode	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	5180	1.40	11.42	12.26
11N20	5180	5.08	15.11	33.62
11N40	5190	4.90	14.92	32.84
11AC20	5180	1.32	11.34	11.64
11AC40	5190	4.90	14.92	32.84
11AX20	5180	3.87	13.89	27.86
11AX40	5190	3.87	13.89	27.86

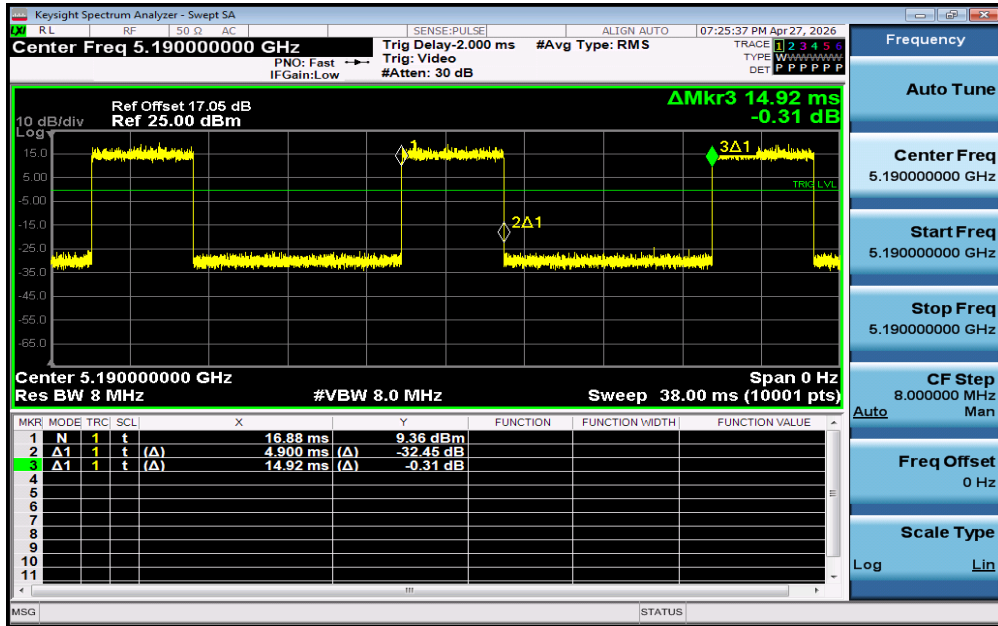
Test Graphs



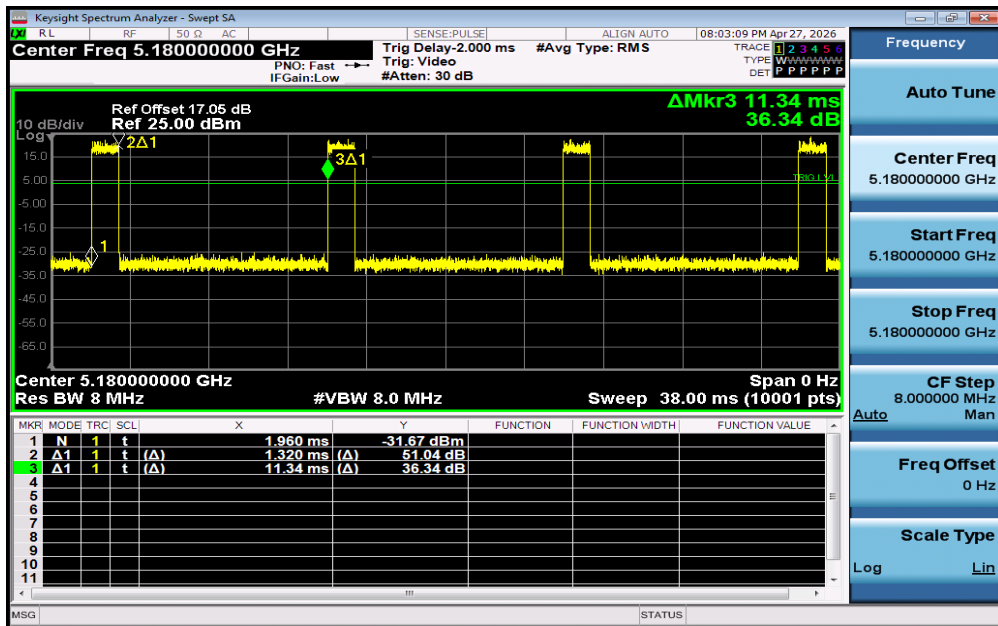
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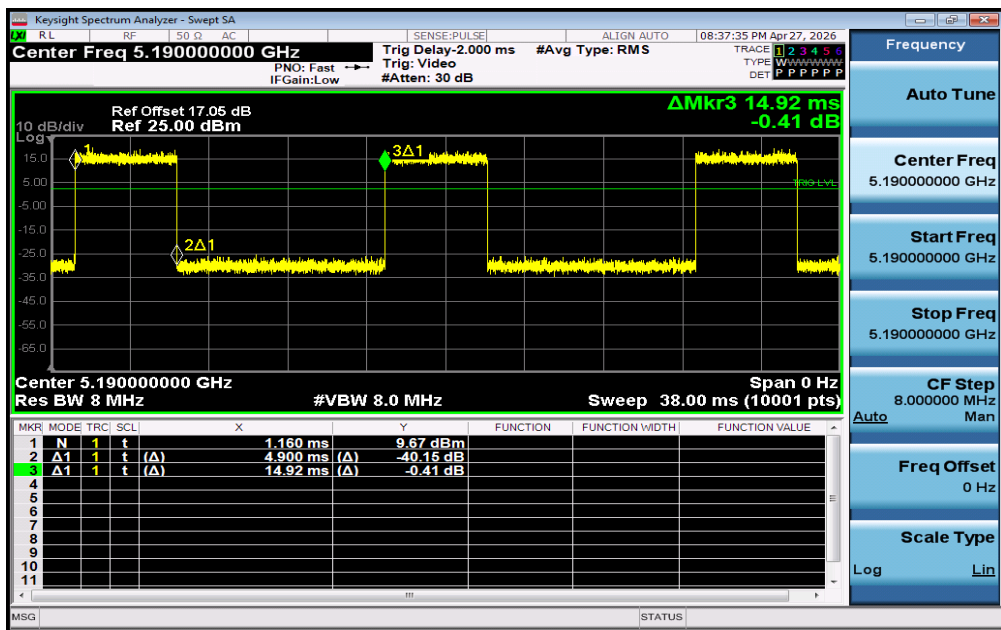
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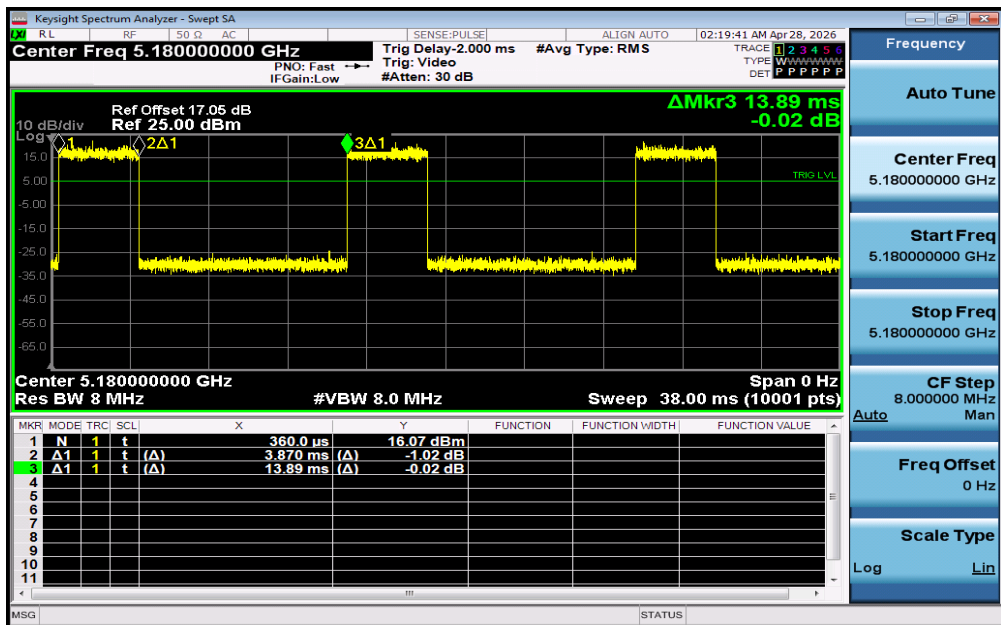
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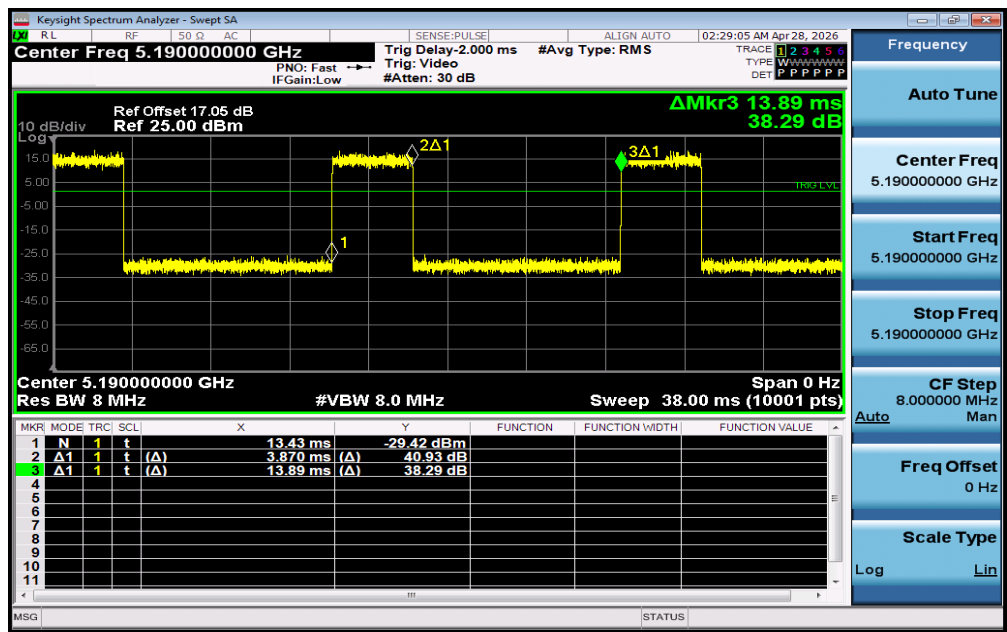
NTNV-11AC20SISO-Ant1-5180



NTNV-11AC40SISO-Ant1-5190



NTNV-11AX20SISO-Ant1-5180



NTNV-11AX40SISO-Ant1-5190

2.7 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Uncertainty	
Parameter	Uncertainty
Occupied Channel Bandwidth	$\pm 102\text{kHz}$
RF power conducted	$\pm 0.243\text{dB}$
Power Spectral Density	$\pm 0.743\text{dB}$
Conducted Spurious Emission	$\pm 1.328\text{dB}$
Conducted emission(9kHz~30MHz) AC main	$\pm 2.68\text{dB}$
Radiated emission(9kHz~30MHz)	$\pm 3.50\text{dB}$
Radiated emission (30MHz~1GHz)	$\pm 4.20\text{dB}$
Radiated emission (1GHz~18GHz)	$\pm 5.10\text{dB}$
Radiated emission (18GHz~40GHz)	$\pm 5.26\text{dB}$

2.8 Test Location

Company:	Shenzhen Haiyun Standard Technical Co., Ltd.
Address:	No. 110-113, 115, 116, Block B, Jinyuan Business Building, Bao'an District, Shenzhen, China
CNAS Registration Number:	CNAS L18252
CAB identifier:	CN0145
A2LA Certificate Number:	6823.01

2.9 SUPPORT UNITS

No.	Equipment	Model	Manufacturer	Series No
1	Notebook	L450	Think	/
2	USB Disk1	/	Kingston	/
3	Adapter	JKY48-SP1204000	/	/
4	Earphone	/	/	/

3. Test Procedure And Results

3.1 AC Power Line Conducted Emission

3.1.1 Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

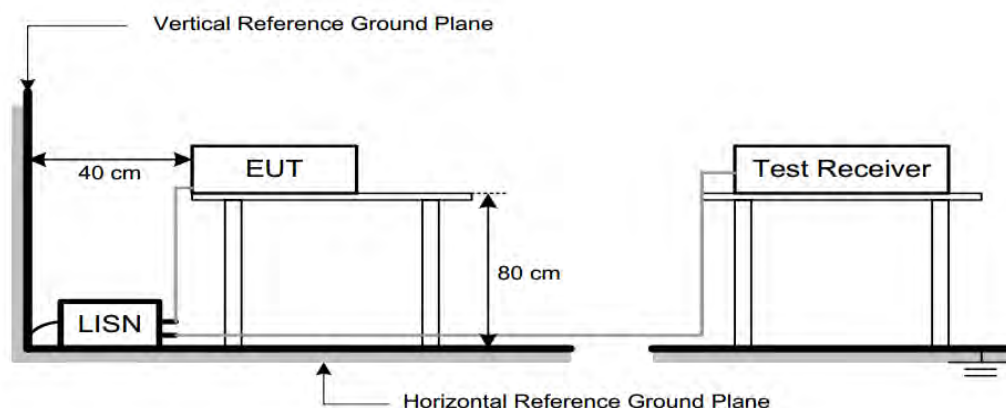
3.1.2 Test Procedure

Test Method	
● Conducted Measurement	○ Radiated Measurement
Test Channels	
○ Lowest, Middle and Highest Channel	○ Lowest and Highest Channel
Environmental conditions	
● Normal	○ Normal and Extreme

Note: ●: Test ○: No Test

- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

3.1.3 Test Setup



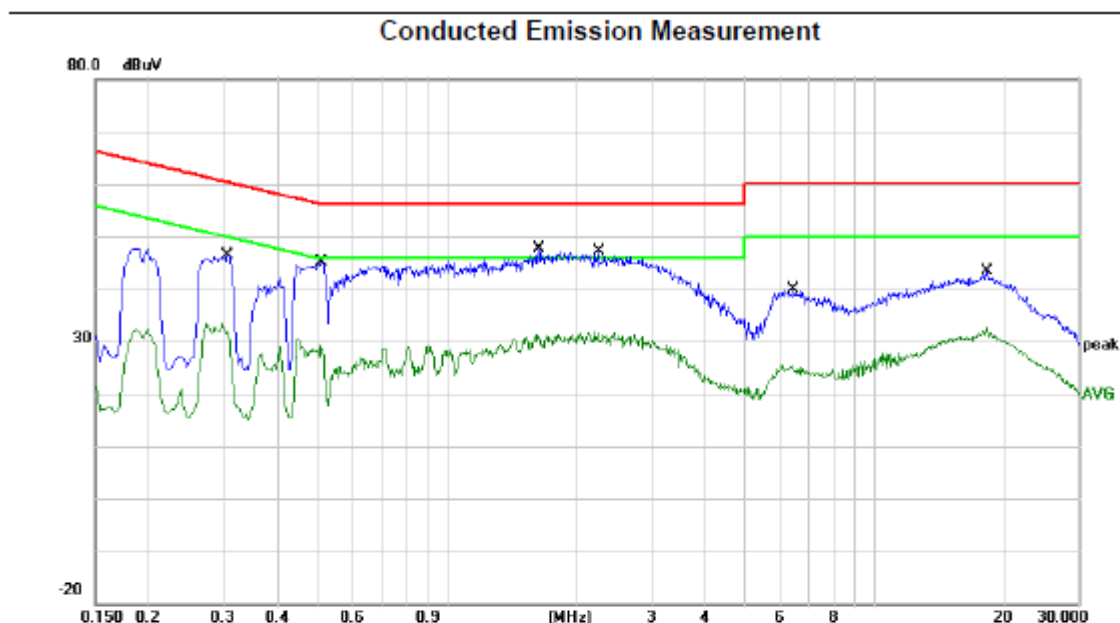
3.1.4 Test Result

Note:

1. Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, the value was added to Original Receiver Reading by the software automatically.
2. Measurement = Reading + Correct Factor.
3. Over = Measurement – Limit
4. The TX 11N20 Mode Channel 40 is found to be the worst case and recorded.

150kHz~30MHz	TX 11N20 Channel 40
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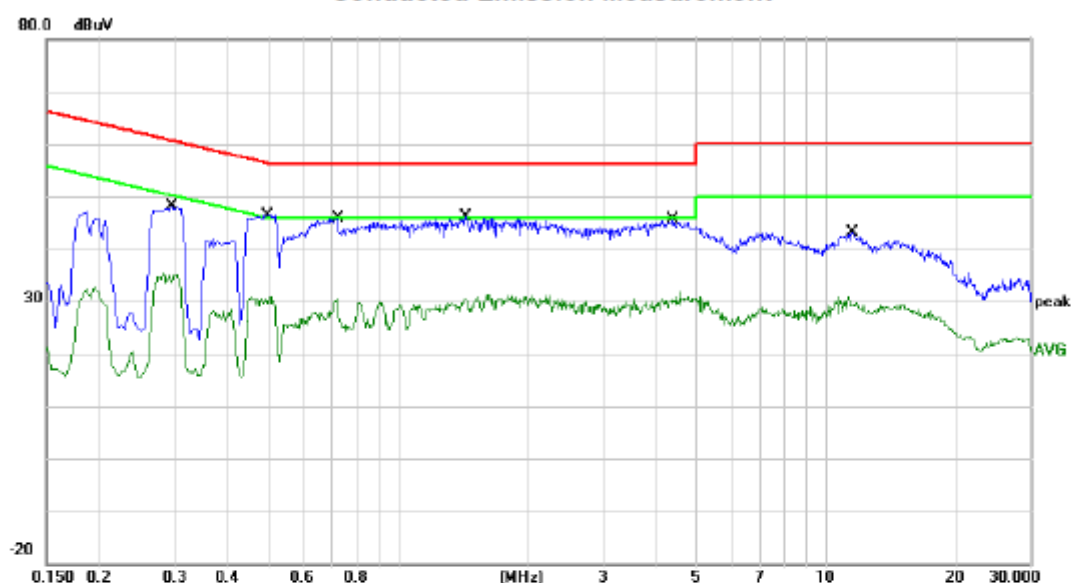
Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.3060	24.14	19.53	43.67	60.08	-16.41	QP	
2		0.3060	11.39	19.53	30.92	50.08	-19.16	AVG	
3 *		0.5100	22.43	19.34	41.77	56.00	-14.23	QP	
4		0.5100	7.80	19.34	27.14	46.00	-18.86	AVG	
5		1.6380	21.91	19.32	41.23	56.00	-14.77	QP	
6		1.6380	11.22	19.32	30.54	46.00	-15.46	AVG	
7		2.2700	22.42	19.32	41.74	56.00	-14.26	QP	
8		2.2700	10.27	19.32	29.59	46.00	-16.41	AVG	
9		6.4620	15.42	19.43	34.85	60.00	-25.15	QP	
10		6.4620	5.10	19.43	24.53	50.00	-25.47	AVG	
11		18.3380	18.37	19.47	37.84	60.00	-22.16	QP	
12		18.3380	10.60	19.47	30.07	50.00	-19.93	AVG	

Neutral

Conducted Emission Measurement



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2940	26.77	19.56	46.33	60.41	-14.08	QP	
2		0.2940	14.58	19.56	34.14	50.41	-16.27	AVG	
3 *		0.4940	24.99	19.56	44.55	56.10	-11.55	QP	
4		0.4940	10.09	19.56	29.65	46.10	-16.45	AVG	
5		0.7220	23.22	19.46	42.68	56.00	-13.32	QP	
6		0.7220	9.16	19.46	28.62	46.00	-17.38	AVG	
7		1.4340	22.38	19.50	41.88	56.00	-14.12	QP	
8		1.4340	11.29	19.50	30.79	46.00	-15.21	AVG	
9		4.3980	20.13	19.45	39.58	56.00	-16.42	QP	
10		4.3980	8.84	19.45	28.29	46.00	-17.71	AVG	
11		11.5460	17.97	19.53	37.50	60.00	-22.50	QP	
12		11.5460	8.68	19.53	28.21	50.00	-21.79	AVG	

3.2 Radiated Emission

3.2.1 Limit

1) Limit of radiated emission measurement:

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

Frequency (MHz)	Distance Meters(m)	Field Strength Limit	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
0.009 – 0.49	300	$2400/F(\text{kHz})$	-
0.490 – 1.705	30	$24000/F(\text{kHz})$	-
1.705 – 30	30	30	-
30~88	3	100	40.0
88~216	3	150	43.5
216~960	3	200	46.0
960~1000	3	500	54.0
Above 1000	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

Note: (1) Emission level $\text{dB}\mu\text{V} = 20 \log$ Emission level $\mu\text{V/m}$

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

2) Limit of unwanted emission out of the restricted bands:

Frequency(MHz)	EIRP Limit(dBm/MHz)	Equivalent Field Strength at 3m($\text{dB}\mu\text{V/m}$)
5150-5250	-27	68.2
5250-5350	-27	68.2
5470-5725	-27	68.2
5725-5850	-27 NOTE (2)	68.2
	10 NOTE (2)	105.2
	15.6 NOTE (2)	110.8
	27 NOTE (2)	122.2

Note: (1) The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength: $E[\text{dB}\mu\text{V}/\text{m}] = \text{EIRP}[\text{dBm}] + 95.2$, for $d=3\text{m}$

(2) According to 15.407(b)(4)(i), all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

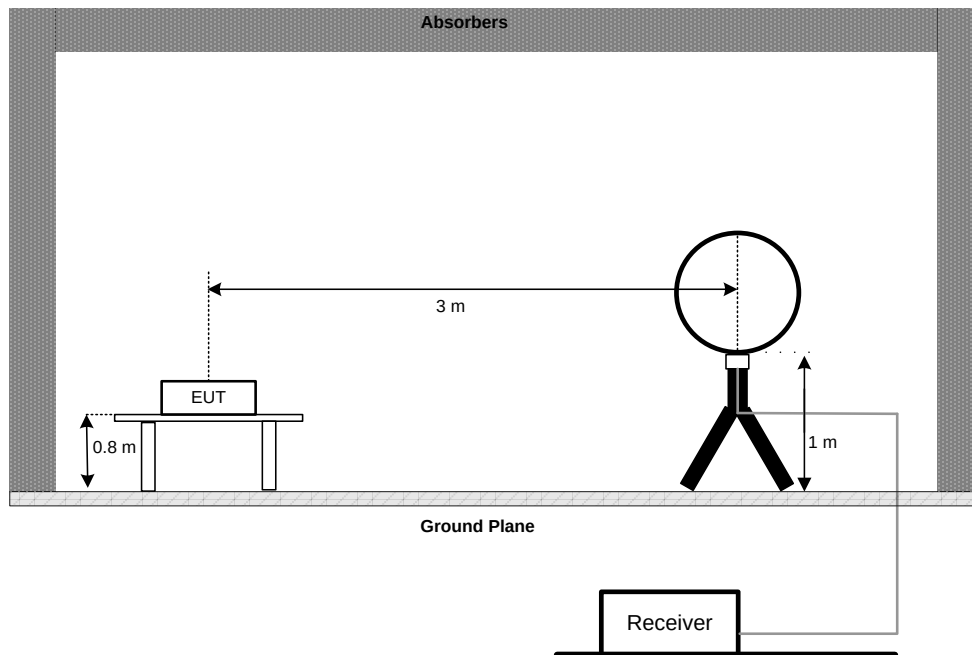
3.2.2 Test Procedure

Test Method	
○Conducted Measurement	●Radiated Measurement
Test Channels	
●Lowest, Middle and Highest Channel	○ Lowest and Highest Channel
Environmental conditions	
●Normal	○Normal and Extreme
Note:●:Test ○:No Test	

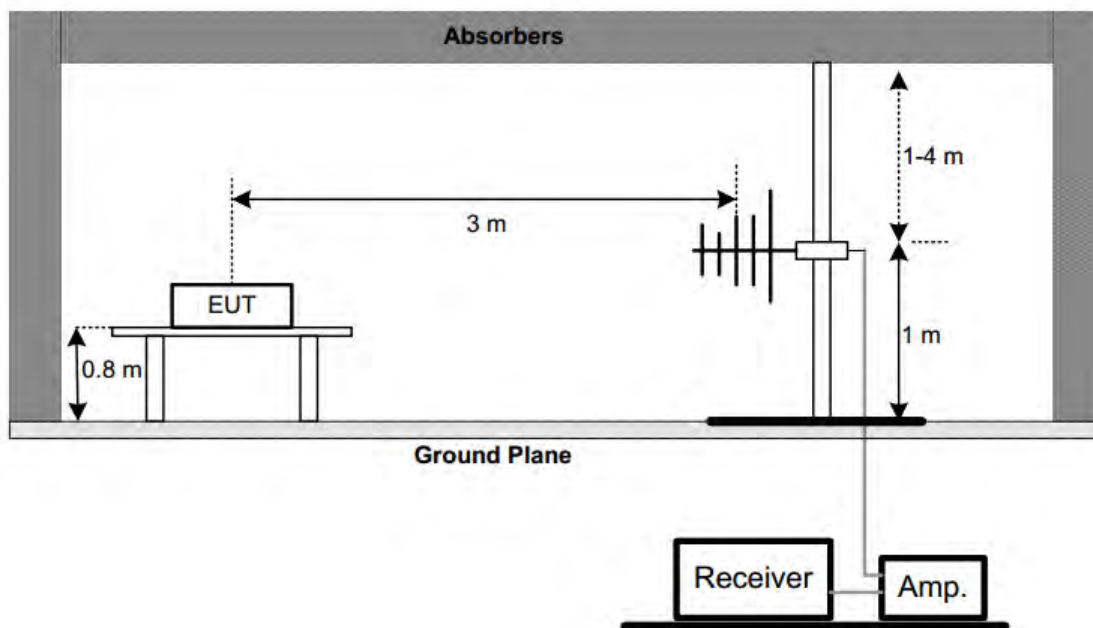
- a) The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- b) The measuring distance of 3 m or 1.5m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c) The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e) The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- f) The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g) All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1 GHz)
- h) All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1 GHz)
- i) For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.2.3 Test Setup

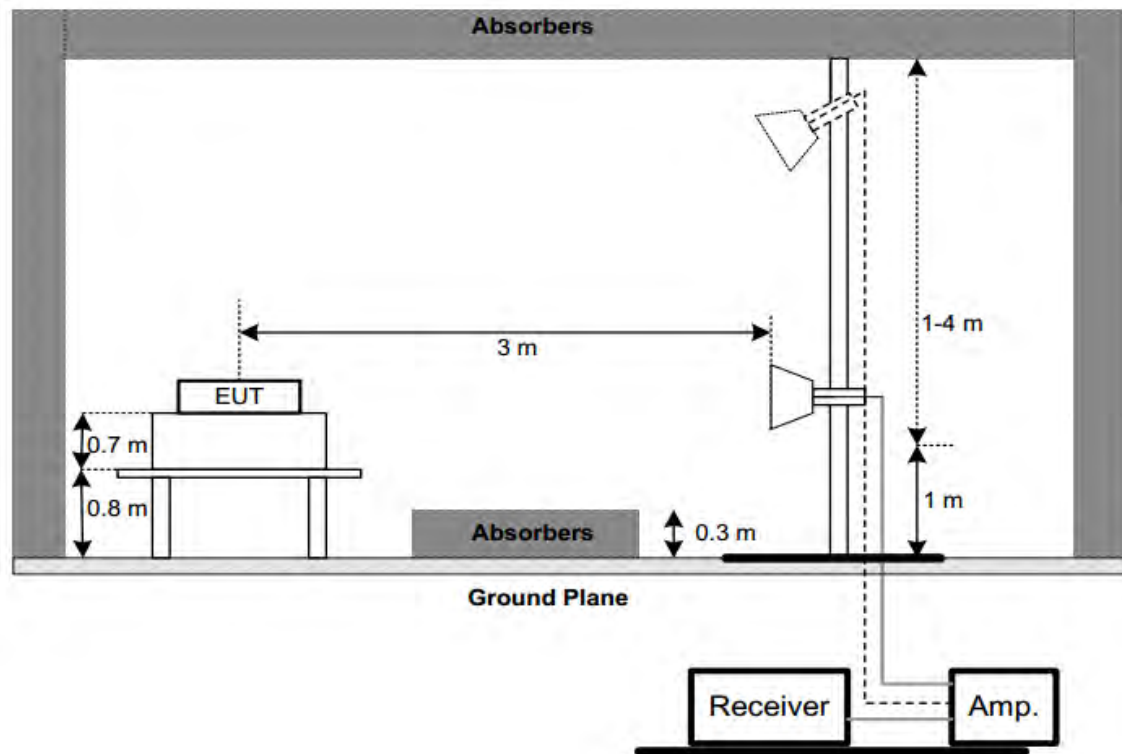
(A) Radiated Emission Test Set-Up Frequency Below 30 MHz



(B) Radiated Emission Test Set-Up Frequency 30 MHz-1000 MHz



(C) Radiated Emission Test Set-Up Frequency Above 1 GHz



3.2.4 Test Result

1) Radiated emission: 9kHz-30MHz

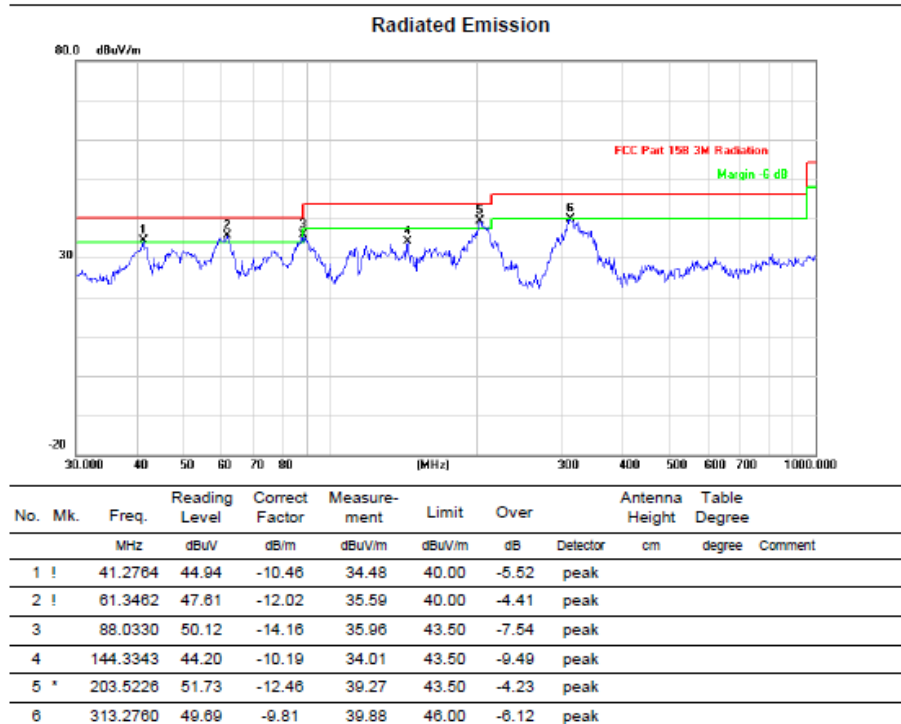
The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not recorded in this report.

2) Radiated emission: 30MHz-1GHz

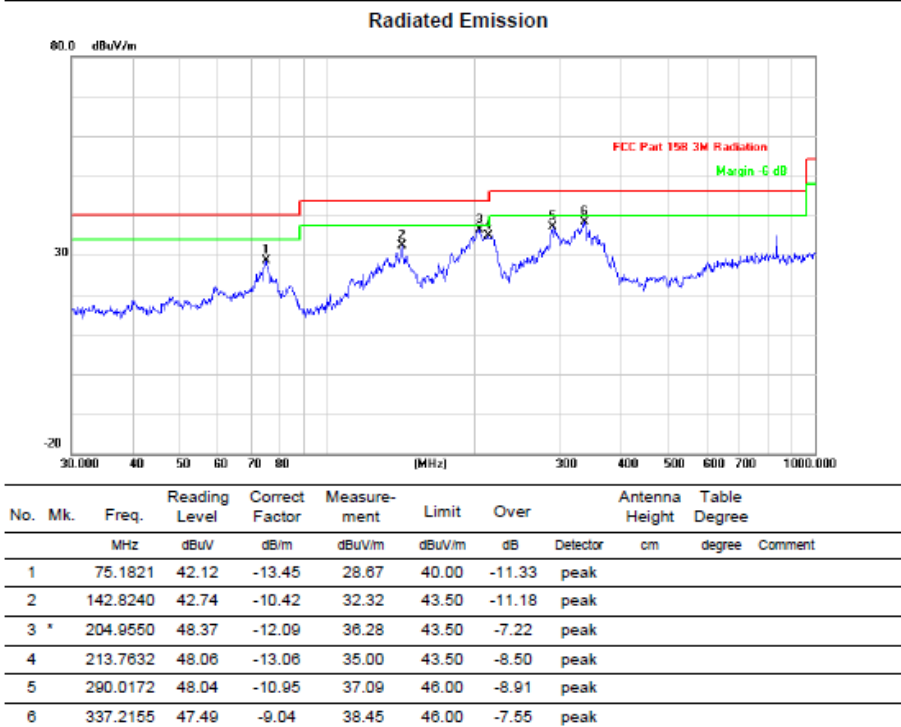
Note:

1. Measurement = Reading + Correct Factor.
2. Over = Measurement – Limit
3. The TX 11N20 Channel 40 is found to be the worst case and recorded.

VERTICAL



HORIZONTAL



3) Radiated emission: Above 1GHz

Frequency (MHz)	Read Level (dBμV)	Polarization	Factor (dB/m)	Measurement (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
11A TX CH36							
4500.00	51.16	H	4.45	55.61	74.00	18.39	peak
5150.00	50.26	H	6.04	56.30	74.00	17.70	peak
10360.00	42.48	H	7.25	49.73	68.20	18.47	peak
4500.00	51.05	V	4.45	55.50	74.00	18.50	peak
5150.00	51.14	V	6.04	57.18	74.00	16.82	peak
10360.00	41.51	V	7.25	48.76	68.20	19.44	peak
11A TX CH40							
10400.00	40.29	H	7.39	47.68	68.20	20.52	peak
10400.00	41.62	V	7.39	49.01	68.20	19.19	peak
11A TX CH48							
10480.00	40.49	H	7.60	48.09	68.20	20.11	peak
10480.00	41.63	V	7.60	49.23	68.20	18.97	peak
11A TX CH52							
10520.00	39.26	H	7.71	48.37	68.20	19.83	peak
10520.00	40.12	V	7.71	48.31	68.20	19.89	peak
11A TX CH56							
10560.00	39.57	H	7.81	47.38	68.20	20.82	peak
10560.00	40.55	V	7.81	48.36	68.20	19.84	peak
11A TX CH64							
5350.00	50.49	H	5.25	55.74	74.00	18.26	peak
5460.00	50.36	H	5.03	55.39	74.00	18.61	peak
10640.00	39.51	H	7.87	47.38	74.00	26.62	peak
5350.00	49.29	V	5.25	54.54	74.00	19.46	peak
5460.00	49.47	V	5.03	54.50	74.00	19.50	peak
10640.00	39.82	V	7.87	47.69	74.00	26.31	peak
11A TX CH100							
5350.00	49.83	H	5.25	55.08	74.00	18.92	peak
5460.00	50.68	H	5.03	55.71	74.00	18.29	peak
11000.00	40.95	H	7.38	48.33	74.00	25.67	peak
5350.00	50.18	V	5.25	55.43	74.00	18.57	peak
5460.00	50.18	V	5.03	55.21	74.00	18.79	peak
11000.00	42.00	V	7.38	49.38	74.00	24.62	peak
11A TX CH116							
11600.00	40.59	H	7.53	48.12	74.00	25.88	peak
11600.00	40.73	V	7.53	48.26	74.00	25.74	peak
11A TX CH140							
11400.00	39.92	H	7.54	47.46	74.00	26.54	peak
11400.00	40.15	V	7.54	47.69	74.00	26.31	peak
11A TX CH149							

5650.00	44.54	H	5.72	50.26	68.20	17.94	peak
5700.00	58.02	H	6.00	64.02	105.20	41.18	peak
5720.00	62.28	H	5.82	68.10	110.80	42.70	peak
5725.00	63.61	H	5.78	69.39	122.20	52.81	peak
11490.00	40.49	H	7.76	48.25	74.00	25.75	peak
5650.00	45.23	V	5.72	50.95	68.20	17.25	peak
5700.00	56.79	V	6.00	62.79	105.20	42.41	peak
5720.00	62.77	V	5.82	68.59	110.80	42.21	peak
5725.00	63.26	V	5.78	69.04	122.20	53.16	peak
11490.00	40.60	V	7.76	48.36	74.00	25.64	peak
11A TX CH157							
11570.00	41.08	H	7.60	48.68	74.00	25.32	peak
11570.00	39.76	V	7.60	47.36	74.00	26.64	peak
11A TX CH165							
5850.00	57.36	H	6.79	64.15	122.20	58.05	peak
5855.00	56.31	H	6.72	63.03	110.80	47.77	peak
5875.00	51.42	H	6.46	57.88	105.20	47.32	peak
5925.00	46.89	H	6.46	53.35	68.20	14.85	peak
11650.00	38.45	H	7.45	45.90	74.00	28.10	peak
5850.00	60.18	V	6.79	66.97	122.20	55.23	peak
5855.00	58.28	V	6.72	65.00	110.80	45.80	peak
5875.00	50.65	V	6.46	57.11	105.20	48.09	peak
5925.00	44.91	V	6.46	51.37	68.20	16.83	peak
11650.00	40.98	V	7.45	48.43	74.00	25.57	peak
11N20 TX CH36							
4500.00	50.28	H	4.45	54.73	74.00	19.27	peak
5150.00	49.83	H	6.04	55.87	74.00	18.13	peak
10360.00	40.39	H	7.25	47.64	68.20	20.56	peak
4500.00	50.64	V	4.45	55.09	74.00	18.91	peak
5150.00	49.09	V	6.04	55.13	74.00	18.87	peak
10360.00	39.99	V	7.25	47.24	68.20	20.96	peak
11N20 TX CH40							
10400.00	40.78	H	7.39	48.17	68.20	20.03	peak
10400.00	42.37	V	7.39	49.76	68.20	18.44	peak
11N20 TX CH48							
10480.00	40.86	H	7.60	48.46	68.20	19.74	peak
10480.00	40.77	V	7.60	48.37	68.20	19.83	peak
11N20 TX CH52							
10520.00	39.26	H	7.71	46.78	68.20	21.42	peak
10520.00	40.12	V	7.71	49.28	68.20	18.92	peak
11N20 TX CH56							
10560.00	40.60	H	7.81	48.41	68.20	19.79	peak
10560.00	42.62	V	7.81	50.43	68.20	17.77	peak
11N20 TX CH64							

5350.00	50.69	H	5.25	55.94	74.00	18.06	peak
5460.00	50.82	H	5.03	55.85	74.00	18.15	peak
10640.00	41.51	H	7.87	49.38	74.00	24.62	peak
5350.00	50.01	V	5.25	55.26	74.00	18.74	peak
5460.00	50.30	V	5.03	55.33	74.00	18.67	peak
10640.00	40.43	V	7.87	48.30	74.00	25.70	peak
11N20 TX CH100							
5350.00	50.68	H	5.25	55.93	74.00	18.07	peak
5460.00	50.72	H	5.03	55.75	74.00	18.25	peak
11000.00	39.49	H	7.38	46.87	74.00	27.13	peak
5350.00	50.64	V	5.25	55.89	74.00	18.11	peak
5460.00	50.16	V	5.03	55.19	74.00	18.81	peak
11000.00	40.93	V	7.38	48.31	74.00	25.69	peak
11N20 TX CH116							
11600.00	41.82	H	7.53	49.35	74.00	24.65	peak
11600.00	41.42	V	7.53	48.95	74.00	25.05	peak
11N20 TX CH140							
11400.00	41.15	H	7.54	48.69	74.00	25.31	peak
11400.00	40.83	V	7.54	48.37	74.00	25.63	peak
11N20 TX CH149							
5650.00	44.94	H	5.72	50.66	68.20	17.54	peak
5700.00	61.47	H	6.00	67.47	105.20	37.73	peak
5720.00	65.65	H	5.82	71.47	110.80	39.33	peak
5725.00	64.41	H	5.78	70.19	122.20	52.01	peak
11490.00	40.90	H	7.76	48.66	74.00	25.34	peak
5650.00	46.02	V	5.72	51.74	68.20	16.46	peak
5700.00	55.85	V	6.00	61.85	105.20	43.35	peak
5720.00	64.90	V	5.82	70.72	110.80	40.08	peak
5725.00	66.14	V	5.78	71.92	122.20	50.28	peak
11490.00	40.91	V	7.76	48.67	74.00	25.33	peak
11N20 TX CH157							
11570.00	41.51	H	7.60	49.11	74.00	24.89	peak
11570.00	40.77	V	7.60	48.37	74.00	25.63	peak
11N20 TX CH165							
5850.00	58.65	H	6.79	65.44	122.20	56.76	peak
5855.00	56.29	H	6.72	63.01	110.80	47.79	peak
5875.00	49.05	H	6.46	55.51	105.20	49.69	peak
5925.00	43.65	H	6.46	50.11	68.20	18.09	peak
11650.00	41.21	H	7.45	48.66	74.00	25.34	peak
5850.00	69.78	V	6.79	76.57	122.20	45.63	peak
5855.00	70.09	V	6.72	76.81	110.80	33.99	peak
5875.00	49.31	V	6.46	55.77	105.20	49.43	peak
5925.00	43.58	V	6.46	50.04	68.20	18.16	peak
11650.00	41.28	V	7.45	48.73	74.00	25.27	peak

11N40 TX CH38							
4500.00	50.51	H	4.45	54.96	74.00	19.04	peak
5150.00	50.81	H	6.04	56.85	74.00	17.15	peak
10380.00	42.29	H	7.32	49.61	68.20	18.59	peak
4500.00	51.73	V	4.45	56.18	74.00	17.82	peak
5150.00	50.49	V	6.04	56.53	74.00	17.47	peak
10380.00	39.63	V	7.32	46.95	68.20	21.25	peak
11N40 TX CH46							
10460.00	41.77	H	7.55	49.32	68.20	18.88	peak
10460.00	40.03	V	7.55	47.58	68.20	20.62	peak
11N40 TX CH54							
10540.00	40.89	H	7.76	48.65	68.20	19.55	peak
10540.00	39.92	V	7.76	47.68	68.20	20.52	peak
11N40 TX CH62							
5350.00	50.12	H	5.25	55.37	74.00	18.63	peak
5460.00	50.44	H	5.03	55.47	74.00	18.53	peak
10620.00	41.48	H	7.89	49.37	74.00	24.63	peak
5350.00	50.28	V	5.25	55.53	74.00	18.47	peak
5460.00	50.54	V	5.03	55.57	74.00	18.43	peak
10620.00	40.76	V	7.89	48.65	74.00	25.35	peak
11N40 TX CH102							
5350.00	50.34	H	5.25	55.59	74.00	18.41	peak
5460.00	50.86	H	5.03	55.89	74.00	18.11	peak
11020.00	40.22	H	7.42	47.64	74.00	26.36	peak
5350.00	51.54	V	5.25	56.79	74.00	17.21	peak
5460.00	51.76	V	5.03	56.79	74.00	17.21	peak
11020.00	41.20	V	7.42	48.62	74.00	25.38	peak
11N40 TX CH110							
11100.00	41.06	H	7.59	48.65	74.00	25.35	peak
11100.00	40.63	V	7.59	48.22	74.00	25.78	peak
11N40 TX CH134							
11340.00	41.56	H	7.77	49.33	74.00	24.67	peak
11340.00	40.46	V	7.77	48.23	74.00	25.77	peak
11N40 TX CH151							
5650.00	44.38	H	5.72	50.10	68.20	18.10	peak
5700.00	59.33	H	6.00	65.33	105.20	39.87	peak
5720.00	64.21	H	5.82	70.03	110.80	40.77	peak
5725.00	65.58	H	5.78	71.36	122.20	50.84	peak
11510.00	40.46	H	7.76	48.22	74.00	25.78	peak
5650.00	44.45	V	5.72	50.17	68.20	18.03	peak
5700.00	56.79	V	6.00	62.79	105.20	42.41	peak
5720.00	63.71	V	5.82	69.53	110.80	41.27	peak
5725.00	65.34	V	5.78	71.12	122.20	51.08	peak
11510.00	39.83	V	7.76	47.59	74.00	26.41	peak

11N40 TX CH159							
5850.00	52.71	H	6.79	59.50	122.20	62.70	peak
5855.00	52.54	H	6.72	59.26	110.80	51.54	peak
5875.00	50.07	H	6.46	56.53	105.20	48.67	peak
5925.00	44.59	H	6.46	51.05	68.20	17.15	peak
11590.00	41.68	H	7.56	49.24	74.00	24.76	peak
5850.00	54.92	V	6.79	61.71	122.20	60.49	peak
5855.00	53.58	V	6.72	60.30	110.80	50.50	peak
5875.00	52.84	V	6.46	59.30	105.20	45.90	peak
5925.00	44.72	V	6.46	51.18	68.20	17.02	peak
11590.00	39.93	V	7.56	47.49	74.00	26.51	peak
11AC20 TX CH36							
4500.00	50.87	H	4.45	55.32	74.00	18.68	peak
5150.00	50.17	H	6.04	56.21	74.00	17.79	peak
10360.00	41.12	H	7.25	48.37	68.20	19.83	peak
4500.00	50.37	V	4.45	54.82	74.00	19.18	peak
5150.00	50.54	V	6.04	56.58	74.00	17.42	peak
10360.00	39.93	V	7.25	47.18	68.20	21.02	peak
11AC20 TX CH40							
10400.00	42.23	H	7.39	49.62	68.20	18.58	peak
10400.00	41.89	V	7.39	49.28	68.20	18.92	peak
11AC20 TX CH48							
10480.00	39.98	H	7.60	47.58	68.20	20.62	peak
10480.00	42.56	V	7.60	50.16	68.20	18.04	peak
11AC20 TX CH52							
10520.00	39.26	H	7.71	49.31	68.20	18.89	peak
10520.00	40.12	V	7.71	50.22	68.20	17.98	peak
11AC20 TX CH56							
10560.00	41.35	H	7.81	49.16	68.20	19.04	peak
10560.00	42.57	V	7.81	50.38	68.20	17.82	peak
11AC20 TX CH64							
5350.00	49.20	H	5.25	54.45	74.00	19.55	peak
5460.00	49.96	H	5.03	54.99	74.00	19.01	peak
10640.00	40.69	H	7.87	48.56	74.00	25.44	peak
5350.00	50.24	V	5.25	55.49	74.00	18.51	peak
5460.00	50.04	V	5.03	55.07	74.00	18.93	peak
10640.00	52.24	V	7.87	60.11	74.00	13.89	peak
11AC20 TX CH100							
5350.00	51.07	H	5.25	56.32	74.00	17.68	peak
5460.00	51.43	H	5.03	56.46	74.00	17.54	peak
11000.00	50.08	H	7.38	57.46	74.00	16.54	peak
5350.00	50.96	V	5.25	56.21	74.00	17.79	peak
5460.00	51.34	V	5.03	56.37	74.00	17.63	peak
11000.00	51.19	V	7.38	58.57	74.00	15.43	peak

11AC20 TX CH116							
11600.00	40.90	H	7.53	48.43	74.00	25.57	peak
11600.00	41.71	V	7.53	49.24	74.00	24.76	peak
11AC20 TX CH140							
11400.00	40.60	H	7.54	48.14	74.00	25.86	peak
11400.00	40.11	V	7.54	47.65	74.00	26.35	peak
11AC20 TX CH149							
5650.00	45.57	H	5.72	51.29	68.20	16.91	peak
5700.00	59.82	H	6.00	65.82	105.20	39.38	peak
5720.00	63.70	H	5.82	69.52	110.80	41.28	peak
5725.00	63.39	H	5.78	69.17	122.20	53.03	peak
11490.00	40.10	H	7.76	47.86	74.00	26.14	peak
5650.00	44.55	V	5.72	50.27	68.20	17.93	peak
5700.00	57.39	V	6.00	63.39	105.20	41.81	peak
5720.00	62.24	V	5.82	68.06	110.80	42.74	peak
5725.00	62.61	V	5.78	68.39	122.20	53.81	peak
11490.00	41.62	V	7.76	49.38	74.00	24.62	peak
11AC20 TX CH157							
11570.00	40.62	H	7.60	48.22	74.00	25.78	peak
11570.00	41.66	V	7.60	49.26	74.00	24.74	peak
11AC20 TX CH165							
5850.00	61.02	H	6.79	67.81	122.20	54.39	peak
5855.00	60.09	H	6.72	66.81	110.80	43.99	peak
5875.00	51.56	H	6.46	58.02	105.20	47.18	peak
5925.00	44.05	H	6.46	50.51	68.20	17.69	peak
11650.00	41.60	H	7.45	49.05	74.00	24.95	peak
5850.00	63.21	V	6.79	70.00	122.20	52.20	peak
5855.00	58.33	V	6.72	65.05	110.80	45.75	peak
5875.00	48.48	V	6.46	54.94	105.20	50.26	peak
5925.00	44.24	V	6.46	50.70	68.20	17.50	peak
11650.00	40.89	V	7.45	48.34	74.00	25.66	peak
11AC40 TX CH38							
4500.00	50.88	H	4.45	55.33	74.00	18.67	peak
5150.00	49.97	H	6.04	56.01	74.00	17.99	peak
10380.00	41.33	H	7.32	48.65	68.20	19.55	peak
4500.00	51.30	V	4.45	55.75	74.00	18.25	peak
5150.00	50.56	V	6.04	56.60	74.00	17.40	peak
10380.00	42.79	V	7.32	50.11	68.20	18.09	peak
11AC40 TX CH46							
10460.00	42.77	H	7.55	50.32	68.20	17.88	peak
10460.00	41.07	V	7.55	48.62	68.20	19.58	peak
11AC40 TX CH54							
10540.00	41.20	H	7.76	48.96	68.20	19.24	peak
10540.00	41.61	V	7.76	49.37	68.20	18.83	peak

11AC40 TX CH62							
5350.00	50.96	H	5.25	56.21	74.00	17.79	peak
5460.00	49.66	H	5.03	54.69	74.00	19.31	peak
10620.00	40.44	H	7.89	48.33	74.00	25.67	peak
5350.00	50.32	V	5.25	55.57	74.00	18.43	peak
5460.00	50.81	V	5.03	55.84	74.00	18.16	peak
10620.00	40.87	V	7.89	48.76	74.00	25.24	peak
11AC40 TX CH102							
5350.00	49.78	H	5.25	55.03	74.00	18.97	peak
5460.00	50.34	H	5.03	55.37	74.00	18.63	peak
11020.00	41.25	H	7.42	48.67	74.00	25.33	peak
5350.00	50.74	V	5.25	55.99	74.00	18.01	peak
5460.00	50.92	V	5.03	55.95	74.00	18.05	peak
11020.00	41.89	V	7.42	49.31	74.00	24.69	peak
11AC40 TX CH110							
11100.00	41.17	H	7.59	48.76	74.00	25.24	peak
11100.00	42.17	V	7.59	49.76	74.00	24.24	peak
11AC40 TX CH134							
11340.00	42.50	H	7.77	50.27	74.00	23.73	peak
11340.00	41.61	V	7.77	49.38	74.00	24.62	peak
11AC40 TX CH151							
5650.00	45.81	H	5.72	51.53	68.20	16.67	peak
5700.00	57.25	H	6.00	63.25	105.20	41.95	peak
5720.00	61.01	H	5.82	66.83	110.80	43.97	peak
5725.00	60.90	H	5.78	66.68	122.20	55.52	peak
11510.00	41.37	H	7.76	49.13	74.00	24.87	peak
5650.00	45.95	V	5.72	51.67	68.20	16.53	peak
5700.00	59.34	V	6.00	65.34	105.20	39.86	peak
5720.00	65.34	V	5.82	71.16	110.80	39.64	peak
5725.00	65.97	V	5.78	71.75	122.20	50.45	peak
11510.00	41.90	V	7.76	49.66	74.00	24.34	peak
11AC40 TX CH159							
5850.00	51.25	H	6.79	58.04	122.20	64.16	peak
5855.00	50.77	H	6.72	57.49	110.80	53.31	peak
5875.00	49.48	H	6.46	55.94	105.20	49.26	peak
5925.00	46.95	H	6.46	53.41	68.20	14.79	peak
11590.00	43.31	H	7.56	50.87	74.00	23.13	peak
5850.00	58.00	V	6.79	64.79	122.20	57.41	peak
5855.00	56.54	V	6.72	63.26	110.80	47.54	peak
5875.00	54.99	V	6.46	61.45	105.20	43.75	peak
5925.00	45.06	V	6.46	51.52	68.20	16.68	peak
11590.00	42.56	V	7.56	50.12	74.00	23.88	peak
11AX20 TX CH36							
4500.00	50.87	H	4.45	55.32	74.00	18.68	peak

5150.00	50.67	H	6.04	56.71	74.00	17.29	peak
10360.00	39.88	H	7.25	47.13	68.20	21.07	peak
4500.00	50.37	V	4.45	54.82	74.00	19.18	peak
5150.00	49.54	V	6.04	55.58	74.00	18.42	peak
10360.00	41.95	V	7.25	49.20	68.20	19.00	peak
11AX20 TX CH40							
10400.00	40.30	H	7.39	47.69	68.20	20.51	peak
10400.00	40.78	V	7.39	48.17	68.20	20.03	peak
11AX20 TX CH48							
10480.00	40.52	H	7.60	48.12	68.20	20.08	peak
10480.00	40.09	V	7.60	47.69	68.20	20.51	peak
11AX20 TX CH52							
10520.00	39.26	H	7.71	46.98	68.20	21.22	peak
10520.00	40.12	V	7.71	48.90	68.20	19.30	peak
11AX20 TX CH56							
10560.00	41.56	H	7.81	49.37	68.20	18.83	peak
10560.00	41.46	V	7.81	49.27	68.20	18.93	peak
11AX20 TX CH64							
5350.00	50.20	H	5.25	55.45	74.00	18.55	peak
5460.00	50.96	H	5.03	55.99	74.00	18.01	peak
10640.00	39.51	H	7.87	47.38	74.00	26.62	peak
5350.00	49.74	V	5.25	54.99	74.00	19.01	peak
5460.00	50.54	V	5.03	55.57	74.00	18.43	peak
10640.00	39.82	V	7.87	47.69	74.00	26.31	peak
11AX20 TX CH100							
5350.00	49.84	H	5.25	55.09	74.00	18.91	peak
5460.00	50.82	H	5.03	55.85	74.00	18.15	peak
11000.00	40.84	H	7.38	48.22	74.00	25.78	peak
5350.00	50.46	V	5.25	55.71	74.00	18.29	peak
5460.00	50.84	V	5.03	55.87	74.00	18.13	peak
11000.00	40.53	V	7.38	47.91	74.00	26.09	peak
11AX20 TX CH116							
11600.00	40.90	H	7.53	48.43	74.00	25.57	peak
11600.00	41.82	V	7.53	49.35	74.00	24.65	peak
11AX20 TX CH140							
11400.00	39.91	H	7.54	47.45	74.00	26.55	peak
11400.00	40.85	V	7.54	48.39	74.00	25.61	peak
11AX20 TX CH149							
5650.00	45.07	H	5.72	50.79	68.20	17.41	peak
5700.00	52.82	H	6.00	58.82	105.20	46.38	peak
5720.00	61.20	H	5.82	67.02	110.80	43.78	peak
5725.00	63.39	H	5.78	69.17	122.20	53.03	peak
11490.00	41.24	H	7.76	49.00	74.00	25.00	peak
5650.00	43.55	V	5.72	49.27	68.20	18.93	peak

5700.00	55.39	V	6.00	61.39	105.20	43.81	peak
5720.00	61.24	V	5.82	67.06	110.80	43.74	peak
5725.00	61.61	V	5.78	67.39	122.20	54.81	peak
11490.00	40.51	V	7.76	48.27	74.00	25.73	peak
11AX20 TX CH157							
11570.00	42.03	H	7.60	49.63	74.00	24.37	peak
11570.00	40.55	V	7.60	48.15	74.00	25.85	peak
11AX20 TX CH165							
5850.00	59.02	H	6.79	65.81	122.20	56.39	peak
5855.00	55.09	H	6.72	61.81	110.80	48.99	peak
5875.00	50.56	H	6.46	57.02	105.20	48.18	peak
5925.00	44.05	H	6.46	50.51	68.20	17.69	peak
11650.00	40.91	H	7.45	48.36	74.00	25.64	peak
5850.00	64.71	V	6.79	71.50	122.20	50.70	peak
5855.00	59.83	V	6.72	66.55	110.80	44.25	peak
5875.00	54.48	V	6.46	60.94	105.20	44.26	peak
5925.00	44.24	V	6.46	50.70	68.20	17.50	peak
11650.00	41.00	V	7.45	48.45	74.00	25.55	peak
11AX40 TX CH38							
4500.00	50.88	H	4.45	55.33	74.00	18.67	peak
5150.00	50.47	H	6.04	56.51	74.00	17.49	peak
10380.00	40.37	H	7.32	47.69	68.20	20.51	peak
4500.00	50.30	V	4.45	54.75	74.00	19.25	peak
5150.00	50.06	V	6.04	56.10	74.00	17.90	peak
10380.00	41.02	V	7.32	48.34	68.20	19.86	peak
11AX40 TX CH46							
10460.00	41.82	H	7.55	49.37	68.20	18.83	peak
10460.00	40.57	V	7.55	48.12	68.20	20.08	peak
11AX40 TX CH54							
10540.00	40.52	H	7.76	48.28	68.20	19.92	peak
10540.00	39.67	V	7.76	47.43	68.20	20.77	peak
11AX40 TX CH62							
5350.00	50.96	H	5.25	56.21	74.00	17.79	peak
5460.00	50.16	H	5.03	55.19	74.00	18.81	peak
10620.00	39.79	H	7.89	47.68	74.00	26.32	peak
5350.00	49.82	V	5.25	55.07	74.00	18.93	peak
5460.00	49.81	V	5.03	54.84	74.00	19.16	peak
10620.00	41.20	V	7.89	49.09	74.00	24.91	peak
11AX40 TX CH102							
5350.00	50.28	H	5.25	55.53	74.00	18.47	peak
5460.00	50.34	H	5.03	55.37	74.00	18.63	peak
11020.00	39.97	H	7.42	47.39	74.00	26.61	peak
5350.00	51.24	V	5.25	56.49	74.00	17.51	peak
5460.00	50.92	V	5.03	55.95	74.00	18.05	peak

11020.00	41.23	V	7.42	48.65	74.00	25.35	peak
11AX40 TX CH110							
11100.00	40.96	H	7.59	48.55	74.00	25.45	peak
11100.00	39.87	V	7.59	47.46	74.00	26.54	peak
11AX40 TX CH134							
11340.00	41.78	H	7.77	49.55	74.00	24.45	peak
11340.00	39.52	V	7.77	47.29	74.00	26.71	peak
11AX40 TX CH151							
5650.00	46.81	H	5.72	52.53	68.20	15.67	peak
5700.00	59.25	H	6.00	65.25	105.20	39.95	peak
5720.00	65.01	H	5.82	70.83	110.80	39.97	peak
5725.00	63.90	H	5.78	69.68	122.20	52.52	peak
11510.00	41.50	H	7.76	49.26	74.00	24.74	peak
5650.00	44.95	V	5.72	50.67	68.20	17.53	peak
5700.00	58.84	V	6.00	64.84	105.20	40.36	peak
5720.00	61.84	V	5.82	67.66	110.80	43.14	peak
5725.00	61.97	V	5.78	67.75	122.20	54.45	peak
11510.00	39.69	V	7.76	47.45	74.00	26.55	peak
11AX40 TX CH159							
5850.00	58.25	H	6.79	65.04	122.20	57.16	peak
5855.00	57.27	H	6.72	63.99	110.80	46.81	peak
5875.00	52.48	H	6.46	58.94	105.20	46.26	peak
5925.00	15.45	H	6.46	21.91	68.20	46.29	peak
11590.00	43.29	H	7.56	50.85	74.00	23.15	peak
5850.00	57.00	V	6.79	63.79	122.20	58.41	peak
5855.00	54.04	V	6.72	60.76	110.80	50.04	peak
5875.00	47.49	V	6.46	53.95	105.20	51.25	peak
5925.00	44.56	V	6.46	51.02	68.20	17.18	peak
11590.00	42.06	V	7.56	49.62	74.00	24.38	peak

Note: 1. The other emission levels were very low against the limit.
2. Measurement = Reading Level+ Correct Factor, Margin = Limit- Measurement

3.3 Spectrum Bandwidth

3.3.1 Limit

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	26 dB Bandwidth	-	5150-5250
	26 dB Bandwidth	-	5250-5350
	26 dB Bandwidth	-	5470-5725
15.407(e)	26 dB Bandwidth	-	5725-5850
	6 dB Bandwidth	Minimum 500 kHz	5725-5850

3.3.2 Test Procedure

Test Method	
●Conducted Measurement	○Radiated Measurement
Test Channels	
●Lowest, Middle and Highest Channel	○ Lowest and Highest Channel
Environmental conditions	
●Normal	○Normal and Extreme
Note:●:Test ○:No Test	

a) The EUT was directly connected to the tonscond test system and antenna output port as show in the block diagram below.

b) the spectrum analyser is set as follow:

For 26 dB Bandwidth

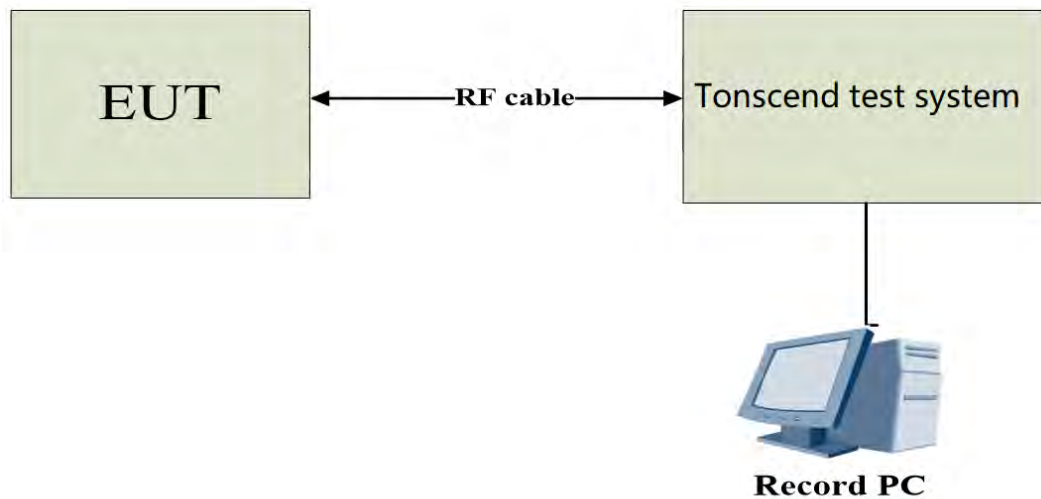
Centre Frequency	The centre frequency of the channel under test
RBW	$\geq 1\% \times \text{Nominal Channel Bandwidth}$
VBW	$\geq 3 \times \text{RBW}$
Frequency span	$2 \times \text{Nominal Channel Bandwidth}$
Detector Mode	Peak
Trace Mode	Max Hold
Sweep Time	Auto Couple

For 6 dB Bandwidth

Centre Frequency	The centre frequency of the channel under test
RBW	100 kHz
VBW	300 kHz
Frequency span	$2 \times \text{Nominal Channel Bandwidth}$
Detector Mode	Peak
Trace Mode	Max Hold
Sweep Time	Auto Couple

- c) Wait for the trace to stabilize then find the peak value of the trace and place the analyser marker on this peak.
- d) Use the -26/-6dB bandwidth function of the spectrum analyser to measure the -26/-6dB Bandwidth of the EUT. This value shall be recorded.
- e) Make sure that the power envelope is sufficiently above the noise floor of the analyser to avoid the noise signals left and right from the power envelope being taken into account by this measurement.

3.3.3 Test Setup



3.3.4 Test Result

26 dB Bandwidth

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	24.320	5167.520	5191.840	---	---
11A	Ant1	5200	22.640	5188.160	5210.800	---	---
11A	Ant1	5240	22.320	5228.880	5251.200	---	---
11A	Ant1	5260	22.960	5248.800	5271.760	---	---
11A	Ant1	5280	21.960	5268.800	5290.760	---	---
11A	Ant1	5320	22.160	5308.920	5331.080	---	---
11A	Ant1	5500	23.760	5487.960	5511.720	---	---
11A	Ant1	5580	23.560	5567.920	5591.480	---	---
11A	Ant1	5700	23.600	5687.960	5711.560	---	---
11A	Ant1	5745	25.080	5731.960	5757.040	---	---
11A	Ant1	5785	23.360	5773.160	5796.520	---	---
11A	Ant1	5825	23.640	5813.240	5836.880	---	---
11N20SISO	Ant1	5180	25.680	5167.600	5193.280	---	---
11N20SISO	Ant1	5200	23.600	5188.160	5211.760	---	---
11N20SISO	Ant1	5240	24.080	5228.080	5252.160	---	---
11N20SISO	Ant1	5260	24.640	5247.840	5272.480	---	---
11N20SISO	Ant1	5280	24.440	5268.040	5292.480	---	---
11N20SISO	Ant1	5320	24.040	5308.120	5332.160	---	---
11N20SISO	Ant1	5500	26.200	5487.400	5513.600	---	---
11N20SISO	Ant1	5580	24.480	5568.040	5592.520	---	---
11N20SISO	Ant1	5700	24.720	5687.600	5712.320	---	---
11N20SISO	Ant1	5745	26.800	5731.680	5758.480	---	---
11N20SISO	Ant1	5785	26.400	5771.480	5797.880	---	---
11N20SISO	Ant1	5825	25.120	5812.480	5837.600	---	---
11N40SISO	Ant1	5190	45.440	5167.120	5212.560	---	---
11N40SISO	Ant1	5230	44.960	5208.000	5252.960	---	---
11N40SISO	Ant1	5270	45.440	5247.600	5293.040	---	---
11N40SISO	Ant1	5310	44.240	5288.240	5332.480	---	---
11N40SISO	Ant1	5510	46.080	5486.320	5532.400	---	---
11N40SISO	Ant1	5550	45.920	5527.200	5573.120	---	---
11N40SISO	Ant1	5670	45.600	5646.880	5692.480	---	---
11N40SISO	Ant1	5755	46.080	5731.800	5777.880	---	---
11N40SISO	Ant1	5795	44.880	5772.680	5817.560	---	---
11AC20SISO	Ant1	5180	24.240	5167.200	5191.440	---	---
11AC20SISO	Ant1	5200	23.640	5187.960	5211.600	---	---
11AC20SISO	Ant1	5240	25.600	5227.440	5253.040	---	---
11AC20SISO	Ant1	5260	23.760	5248.480	5272.240	---	---
11AC20SISO	Ant1	5280	24.480	5267.200	5291.680	---	---
11AC20SISO	Ant1	5320	24.920	5307.440	5332.360	---	---

11AC20SISO	Ant1	5500	24.360	5487.960	5512.320	---	---
11AC20SISO	Ant1	5580	25.920	5567.280	5593.200	---	---
11AC20SISO	Ant1	5700	25.160	5686.880	5712.040	---	---
11AC20SISO	Ant1	5745	24.280	5732.440	5756.720	---	---
11AC20SISO	Ant1	5785	24.760	5772.760	5797.520	---	---
11AC20SISO	Ant1	5825	25.600	5811.720	5837.320	---	---
11AC40SISO	Ant1	5190	43.760	5168.320	5212.080	---	---
11AC40SISO	Ant1	5230	45.920	5206.560	5252.480	---	---
11AC40SISO	Ant1	5270	45.280	5247.360	5292.640	---	---
11AC40SISO	Ant1	5310	44.000	5288.000	5332.000	---	---
11AC40SISO	Ant1	5510	46.080	5486.640	5532.720	---	---
11AC40SISO	Ant1	5550	44.880	5527.760	5572.640	---	---
11AC40SISO	Ant1	5670	44.480	5647.360	5691.840	---	---
11AC40SISO	Ant1	5755	46.800	5730.840	5777.640	---	---
11AC40SISO	Ant1	5795	45.120	5772.440	5817.560	---	---
11AX20SISO	Ant1	5180	23.640	5168.640	5192.280	---	---
11AX20SISO	Ant1	5200	22.240	5188.720	5210.960	---	---
11AX20SISO	Ant1	5240	23.880	5228.040	5251.920	---	---
11AX20SISO	Ant1	5260	24.800	5246.960	5271.760	---	---
11AX20SISO	Ant1	5280	22.640	5269.120	5291.760	---	---
11AX20SISO	Ant1	5320	24.640	5307.960	5332.600	---	---
11AX20SISO	Ant1	5500	25.480	5486.280	5511.760	---	---
11AX20SISO	Ant1	5580	24.080	5568.280	5592.360	---	---
11AX20SISO	Ant1	5700	24.120	5687.880	5712.000	---	---
11AX20SISO	Ant1	5745	25.480	5732.000	5757.480	---	---
11AX20SISO	Ant1	5785	25.240	5772.600	5797.840	---	---
11AX20SISO	Ant1	5825	24.600	5813.160	5837.760	---	---
11AX40SISO	Ant1	5190	43.680	5168.160	5211.840	---	---
11AX40SISO	Ant1	5230	43.200	5208.240	5251.440	---	---
11AX40SISO	Ant1	5270	43.760	5247.840	5291.600	---	---
11AX40SISO	Ant1	5310	43.040	5288.240	5331.280	---	---
11AX40SISO	Ant1	5510	44.160	5487.440	5531.600	---	---
11AX40SISO	Ant1	5550	45.600	5527.040	5572.640	---	---
11AX40SISO	Ant1	5670	42.240	5648.480	5690.720	---	---
11AX40SISO	Ant1	5755	44.800	5733.320	5778.120	---	---
11AX40SISO	Ant1	5795	43.120	5773.960	5817.080	---	---



11A-Ant1-5180



11A-Ant1-5200



11A-Ant1-5240



11A-Ant1-5260



11A-Ant1-5280



11A-Ant1-5320



11A-Ant1-5500



11A-Ant1-5580



11A-Ant1-5700



11A-Ant1-5745



11A-Ant1-5785



11A-Ant1-5825



11N20SISO-Ant1-5180



11N20SISO-Ant1-5200



11N20SISO-Ant1-5240



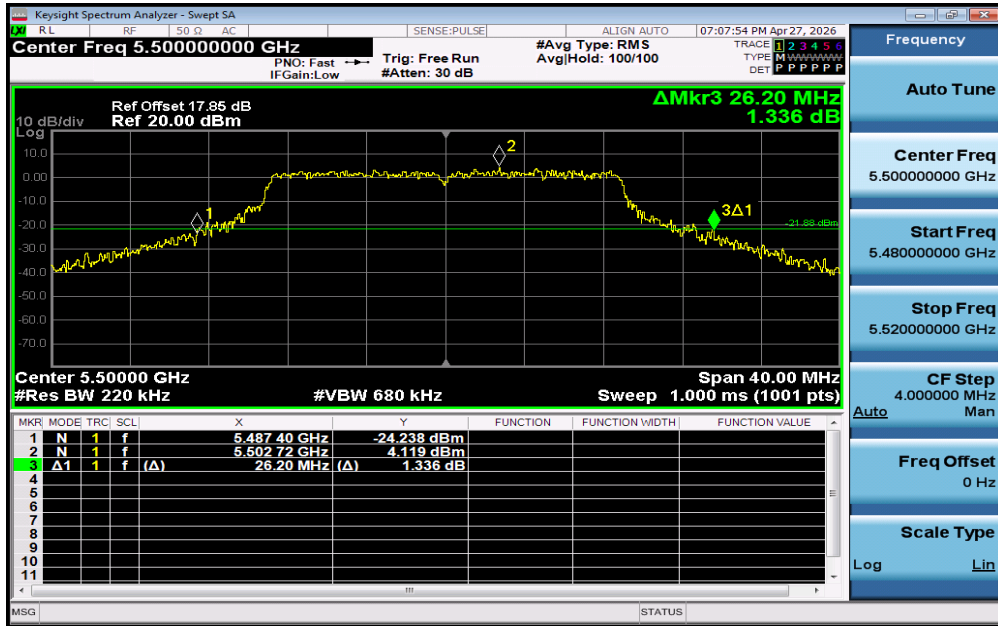
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11N20SISO-Ant1-5580



11N20SISO-Ant1-5700



11N20SISO-Ant1-5745



11N20SISO-Ant1-5785



11N20SISO-Ant1-5825



11N40SISO-Ant1-5190



11N40SISO-Ant1-5230



11N40SISO-Ant1-5270



11N40SISO-Ant1-5310



11N40SISO-Ant1-5510



11N40SISO-Ant1-5550



11N40SISO-Ant1-5670



11N40SISO-Ant1-5755



11N40SISO-Ant1-5795



11AC20SISO-Ant1-5180



11AC20SISO-Ant1-5200



11AC20SISO-Ant1-5240



11AC20SISO-Ant1-5260



11AC20SISO-Ant1-5280



11AC20SISO-Ant1-5320



11AC20SISO-Ant1-5500



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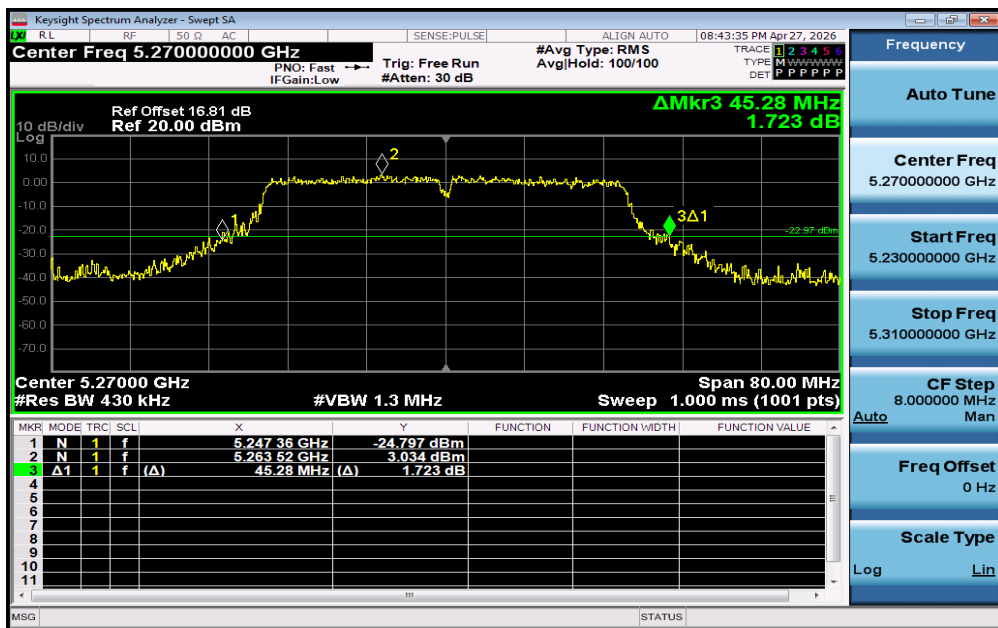
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11AC40SISO-Ant1-5190



11AC40SISO-Ant1-5230



11AC40SISO-Ant1-5270