Radio Test Report

Report No.:STS2511130W30

Issued for

LAUNCH TECH CO., LTD.

No.4012, Launch Industrial Park, North Wuhe Rd, Bantian Street, Longgang District, Shenzhen, China

Product Name:	Automotive Diagnostic Tool
Brand Name:	LAUNCH
Model Name:	OADD-PD1005A
Series Model(s):	X-431 PAD5 ELITE V2, OADD-PD1005x (x=A-Z, representing different configurations）
FCC ID:	XUJOADDPD1005A
Test Standards:	FCC Part15.407

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

TEST REPORT

Applicant's Name	:	LAUNCH TECH CO., LTD.
Address	:	No.4012, Launch Industrial Park, North Wuhe Rd, Bantian Street, Longgang District, Shenzhen, China
Manufacturer's Name	:	LAUNCH TECH CO., LTD.
Address	:	No.4012, Launch Industrial Park, North Wuhe Rd, Bantian Street, Longgang District, Shenzhen, China
Product Description		
Product Name	:	Automotive Diagnostic Tool
Brand Name	:	LAUNCH
Model Name	:	OADD-PD1005A
Series Model(s)	:	X-431 PAD5 ELITE V2, OADD-PD1005x (x=A-Z, representing different configurations）
Test Standards	:	FCC Part15.407
Test Procedure		ANSI C63.10-2020

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.
The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

Date of Test	:	
Date of receipt of test item	:	15 Nov. 2025
Date (s) of performance of tests	:	15 Nov. 2025 ~ 17 Mar. 2026
Date of Issue	:	17 Mar. 2026
Test Result	:	**Pass**

Testing Engineer : Aaron Bu

(Aaron Bu)

Technical Manager : Skylar Li

(Skylar Li)

SHENZHEN STS TEST SERVICES CO., LTD. TESTING APPROVAL

Authorized Signatory : Bovey Yang

(Bovey Yang)

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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	17 Mar. 2026	STS2511130W30	ALL	Initial Issue

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:
§ 15.407,KDB 789033 D02 General U-NII Test Procedures New Rules v02r01

FCC Part 15.407		
FCC standard	Test Item	Results
15.207	AC Conducted Emission	PASS
15.407 (a) /15.407 (e)	26dB/6dB &99% Bandwidth	PASS
15.407(a)	Maximum Conducted Output Power	PASS
15.407(b)/15.209	Radiated Emission And (bandedge Emissions) Measurement	PASS
15.407(a)	Power Spectral Density	PASS
15.407(c)	Automatically Discontinue Transmission	PASS
15.203	Antenna Requirement	PASS

Note:

(1) 'N/A' denotes test is not applicable in this Test Report.

(2) All tests are according to ANSI C63.10-2020.

1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD
Add.: 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China
FCC test Firm Registration Number: 625569
IC test Firm Registration Number: 12108A
A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y ± U**, where expended uncertainty **U** is based on a standard uncertainty multiplied by a coverage factor of **k=2**, providing a level of confidence of approximately **95** %.

No.	Item	Uncertainty
1	RF output power, conducted	±0.751dB
2	Unwanted Emissions, conducted	±2.888dB
3	All emissions, radiated 9K-30MHz	±2.48dB
4	All emissions, radiated 30M-1GHz	±2.52dB
5	All emissions, radiated 1G-18GHz	±3.48dB
6	All emissions, radiated>18GHz	±4.18dB
7	Conducted Emission (9KHz-150KHz)	±2.48dB
8	Conducted Emission (150KHz-30MHz)	±2.52dB
9	Occupied Channel Bandwidth	±3.6%
10	Power Spectral Density, conducted	±1.214dB
11	Duty Cycle	±3.2%

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

<table>
<tr><td>Product Name</td><td>Automotive Diagnostic Tool</td></tr>
<tr><td>Brand Name</td><td>LAUNCH</td></tr>
<tr><td>Model Name</td><td>OADD-PD1005A</td></tr>
<tr><td>Series Model(s)</td><td>X-431 PAD5 ELITE V2, OADD-PD1005x (x=A-Z, representing different configurations）</td></tr>
<tr><td>Model Difference</td><td>The models are different, and the colors of the rubber sleeves are also different. The system software, motherboard and structure of all models are exactly the same</td></tr>
<tr><td>Product Description</td><td>The EUT is Automotive Diagnostic Tool
<table>
<tr><td rowspan="4">Operation Frequency:</td><td>IEEE 802.11a/ n(HT20)/ac(VHT20):
5.180GHz-5.240GHz
IEEE 802.11n(HT40)/ac(VHT40):
5.190GHz-5.230GHz
IEEE 802.11ac(VHT80) : 5.210GHz</td></tr>
<tr><td>IEEE 802.11a/ n(HT20)/ac(VHT20):
5.260GHz-5.320GHz
IEEE 802.11 n(HT40)/ac(VHT40):
5.270GHz-5.310GHz
IEEE 802.11ac(VHT80): 5.290GHz</td></tr>
<tr><td>IEEE 802.11a/ n(HT20)/ac(VHT20):
5.500GHz-5.700GHz
IEEE 802.11 n(HT40)/ac(VHT40):
5.510GHz-5.670GHz
IEEE 802.11ac(VHT80): 5.530GHz-5.610GHz</td></tr>
<tr><td>IEEE 802.11a/ n(HT20)/ac(VHT20):
5.745GHz-5.825GHz
IEEE 802.11a/ n(HT40)/ac(VHT40):
5.755GHz-5.795GHz
IEEE 802.11ac(VHT80): 5.775GHz</td></tr>
<tr><td>Modulation Type:</td><td>802.11a(OFDM):
BPSK,QPSK,16-QAM,64-QAM
802.11n(OFDM):
BPSK,QPSK,16-QAM,64-QAM
802.11ac(OFDM):
BPSK,QPSK,16-QAM,64-QAM,256-QAM</td></tr>
<tr><td>Antenna Type:</td><td>FPC</td></tr>
<tr><td>Antenna Gain:</td><td>3.04</td></tr>
</table>
More details of EUT technical specification, please refer to the User Manual.</td></tr>
<tr><td>Test Channel</td><td>Please refer to the Note 3.</td></tr>
<tr><td>Power Rating</td><td>Input: DC15V, 3A</td></tr>
<tr><td>Adapter</td><td>Model: XDJ481R-PDG
Brand: XINDEJIA
Input: 100-240V~50/60Hz 1.8A
Output: 5.0V ⎓ 3.0A 15.0W/9.0V ⎓ 3.0A 27.0W/12.0V ⎓ 3.0A 36.0W/15.0V⎓3.0A 45.0W/20.0V⎓2.4A 48.0W</td></tr>
<tr><td>Battery</td><td>Model: CLP606070-2S2P
Brand: N/A
Rated Voltage: 7.6 V
Charge Limit Voltage: 8.7 V
Capacity: 7000 mAh</td></tr>
</table>

Hardware version number	Y40-V2A
Software version number	V2.1.2
Connecting I/O Port(s)	Please refer to the Note 1.

Note

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
2. The antenna details in this report are based on the manufacturer provided antenna specification documents and apply only to the tested sample identified herein.
   Any discrepancies in the antenna information may affect the accuracy of the test results, and the customer assumes responsibility for any related issues.
3.

Operation Frequency of channel			
5.180GHz-5.240GHz		5.500GHz-5.720GHz	
Channel	Frequency	Channel	Frequency
36	5180	100	5500
38	5190	102	5510
40	5200	104	5520
42	5210	106	5530
44	5220	108	5540
46	5230	110	5550
48	5240	112	5560
		116	5580
5.260GHz-5.320GHz		118	5590
Channel	Frequency	120	5600
52	5260	122	5610
54	5270	124	5620
56	5280	126	5630
58	5290	128	5640
60	5300	132	5660
62	5310	134	5670
64	5320	136	5680
		140	5700
5.745GHz-5.825GHz			
Channel	Frequency		
149	5745		
151	5755		
153	5765		
155	5775		
157	5785		
159	5795		
161	5805		
165	5825		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Carrier Frequency Channel

5GHz:

For 802.11a/n(HT20)/ac(VHT20)			
Channel	Freq.(MHz)	Channel	Freq.(MHz)
36	5180	52	5260
40	5200	60	5300
48	5240	64	5320

For 802.11a/n(HT20)/ac(VHT20)			
Channel	Freq.(MHz)	Channel	Freq.(MHz)
100	5500	149	5745
116	5580	157	5785
140	5700	165	5825

For 802.11 n(HT40)/ac(VHT40)			
Channel	Freq.(MHz)	Channel	Freq.(MHz)
38	5190	54	5270
46	5230	62	5310

For 802.11 n(HT40)/ac(VHT40)			
Channel	Freq.(MHz)	Channel	Freq.(MHz)
102	5510	151	5755
110	5550	159	5795
134	5670		

For 802.11ac (VHT80)			
Channel	Freq.(MHz)	Channel	Freq.(MHz)
42	5210	58	5290

For 802.11ac (VHT80)			
Channel	Freq.(MHz)	Channel	Freq.(MHz)
106	5530	155	5775
122	5610		

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Worst Mode	Description	Data Rate
Mode 1	TX IEEE 802.11a HT20 CH36&CH40&CH48	6 Mbps
Mode 2	TX IEEE 802.11a HT20 CH52&CH60&CH64	6 Mbps
Mode 3	TX IEEE 802.11a HT20 CH100&CH116&CH140	6 Mbps
Mode 4	TX IEEE 802.11a HT20 CH149&CH157&CH165	6 Mbps
Mode 5	TX IEEE 802.11n HT20 CH36&CH40&CH48	MCS 0
Mode 6	TX IEEE 802.11ac VHT20 CH36&CH40&CH48	NSS1 MCS0
Mode 7	TX IEEE 802.11n HT20 CH52&CH60&CH64	MCS 0
Mode 8	TX IEEE 802.11ac VHT20 CH52&CH60&CH64	NSS1 MCS0
Mode 9	TX IEEE 802.11n HT20 CH100&CH116&CH140	MCS 0
Mode 10	TX IEEE 802.11ac VHT20 CH100&CH116&CH140	NSS1 MCS0
Mode 11	TX IEEE 802.11n HT20 CH149&CH157&CH165	MCS 0
Mode 12	TX IEEE 802.11ac VHT20 CH149&CH157&CH165	NSS1 MCS0
Mode 13	TX IEEE 802.11n HT40 CH38&CH46	MCS 0
Mode 14	TX IEEE 802.11ac VHT40 CH38&CH46	NSS1 MCS0
Mode 15	TX IEEE 802.11n HT40 CH54 &CH62	MCS 0
Mode 16	TX IEEE 802.11ac VHT40 CH54 &CH62	NSS1 MCS0
Mode 17	TX IEEE 802.11n HT40 CH102&CH110&CH134	MCS 0
Mode 18	TX IEEE 802.11ac VHT40 CH102&CH110&CH134	NSS1 MCS0
Mode 19	TX IEEE 802.11n HT40 CH151&CH159	MCS 0
Mode 20	TX IEEE 802.11ac VHT40 CH151&CH159	NSS1 MCS0
Mode 21	TX IEEE 802.11ac VHT80 CH42	NSS1 MCS0
Mode 22	TX IEEE 802.11ac VHT80 CH58	NSS1 MCS0
Mode 23	TX IEEE 802.11ac VHT80 CH106&122	NSS1 MCS0
Mode 24	TX IEEE 802.11ac VHT80 CH155	NSS1 MCS0

Note: (1) The measurements are performed at the highest, middle, lowest available channels.
(2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.
(3) We have be tested for all avaiable U.S. voltage and frequencies(For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation.

AC Conducted Emission

Test Case	
AC Conducted Emission	Mode 25: Keeping TX + WLAN Link

2.3 TEST SOFTWARE AND POWER LEVEL

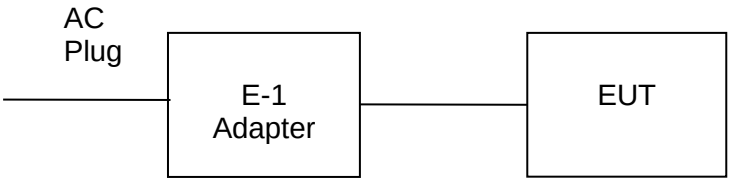
During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
WIFI(5G)	U-NII-1 (5150MHz-5250MHz)	802.11a	3.04	17	Engineering mode
		802.11n(HT20)		18	
		802.11n(HT40)		17	
		802.11ac(VHT20)		17	
		802.11ac(VHT40)		17	
		802.11ac(VHT80)		17	
RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
WIFI(5G)	U-NII-2A (5250MHz-5350MHz)	802.11a	3.04	16	Engineering mode
		802.11n(HT20)		17	
		802.11n(HT40)		16	
		802.11ac(VHT20)		16	
		802.11ac(VHT40)		16	
		802.11ac(VHT80)		16	
RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
WIFI(5G)	U-NII-2C (5470MHz-5725MHz)	802.11a	3.04	17	Engineering mode
		802.11n(HT20)		18	
		802.11n(HT40)		17	
		802.11ac(VHT20)		17	
		802.11ac(VHT40)		17	
		802.11ac(VHT80)		17	
RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
WIFI(5G)	U-NII-3 (5725MHz-5850MHz)	802.11a	3.04	18	Engineering mode
		802.11n(HT20)		19	
		802.11n(HT40)		18	
		802.11ac(VHT20)		18	
		802.11ac(VHT40)		18	
		802.11ac(VHT80)		18	

2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiation Test Set

Conduction Test Set



RF Conduction Test Set

2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Note
E-1	Adapter	XINDE JIA	XDJ481R-PDG	N/A

Item	Equipment	Mfr/Brand	Length	Note
N/A	N/A	N/A	N/A	N/A

Note:

(1) For detachable type I/O cable should be specified the length in cm in『Length』column.

2.6 EQUIPMENTS LIST

RF Radiation Test Equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Temperature & Humidity	SW-108	SuWei	N/A	2025.02.24	2026.02.23
Temperature & Humidity	SW-108	SuWei	N/A	2026.02.04	2027.02.03
Pre-Amplifier(0.1 M-3GHz)	EM	EM330	060665	2025.02.22	2026.02.21
Pre-Amplifier(0.1 M-3GHz)	EM	EM330	060665	2026.02.04	2027.02.03
Pre-Amplifier(1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2025.09.25	2026.09.24
Pre-Amplifier(18G -40GHz)	SKET	LNPA_1840-50	SK2018101801	2025.02.22	2026.02.21
Pre-Amplifier(18G -40GHz)	SKET	LNPA_1840-50	SK2018101801	2026.02.04	2027.02.03
Active loop Antenna	ZHINAN	ZN30900C	16035	2025.02.25	2027.02.24
Bilog Antenna	TESEQ	CBL6111D	34678	2025.09.27	2027.09.26
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2025.09.27	2027.09.26
Horn Antenna	A-INFOMW	LB-180400-KF	J211020657	2025.09.27	2027.09.26
Positioning Controller	MF	MF-7802	MF-780208587	N/A	N/A
Signal Analyzer	R&S	FSV 40-N	101823	2025.09.26	2026.09.25
Switch Control Box	N/A	N/A	N/A	N/A	N/A
Band 5.1G-5.8G Filter	HX MICROWAVE	HXLBQ-DZA62	N/A	2025.09.23	2026.09.22
Antenna Mast	MF	MFA-440H	N/A	N/A	N/A
Turn Table	MF	SC100_1	60531	N/A	N/A
AC Power Source	APC	KDF-11010G	F214050035	N/A	N/A
DC power supply	HONGSHENGFENG	DPS-305AF	17064939	2025.09.22	2026.09.21
Test SW	EZ-EMC	Ver.STSLAB-03A1 RE			
Conduction Test Equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2025.09.25	2026.09.24
Limiter	CYBERTEK	EM5010	N/A	2025.09.25	2026.09.24
LISN	R&S	ENV216	101242	2025.09.25	2026.09.24
LISN	EMCO	3810/2NM	23625	2025.09.25	2026.09.24
Temperature & Humidity	SW-108	SuWei	N/A	2025.02.24	2026.02.23
Temperature & Humidity	SW-108	SuWei	N/A	2026.02.04	2027.02.03
Test SW	EZ-EMC	Ver.STSLAB-03A1 CE			
RF Connected Test					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Signal Analyzer	Agilent	N9020A	MY51510623	2025.02.22	2026.02.21
Signal Analyzer	Agilent	N9020A	MY51510623	2026.02.04	2027.02.03
Power detector group	Keysight	NW2021031	N/A	2025.09.23	2026.09.22
Switch control box	MW	MW100-RFCB	N/A	N/A	N/A
Temperature& Humidity test chamber	Safety test	AG80L	171200018	2025.02.22	2026.02.21
Temperature& Humidity test chamber	Safety test	AG80L	171200018	2026.02.04	2027.02.03
Temperature & Humidity	SW-108	SuWei	N/A	2025.02.24	2026.02.23
Temperature & Humidity	SW-108	SuWei	N/A	2026.02.04	2027.02.03
Test SW	MW	MTS 8310_2.0.0.0			

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class B (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	56.00	46.00	CISPR
5.0 -30.0	60.00	50.00	CISPR

0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

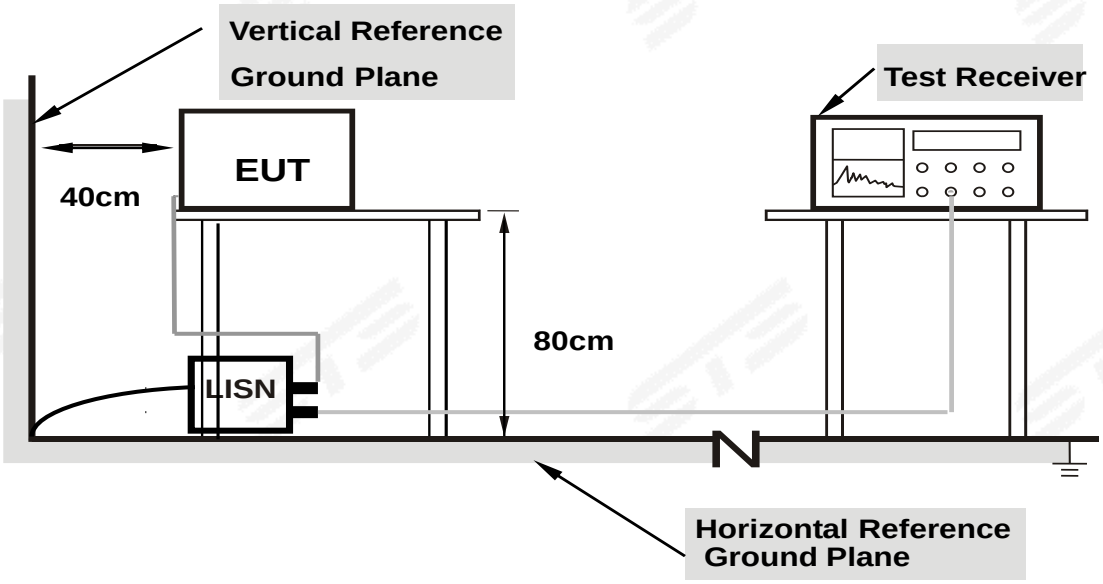
3.1.2 TEST PROCEDURE

a. The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
d. LISN is at least 80 cm from the nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

3.1.5 EUT OPERATING CONDITIONS

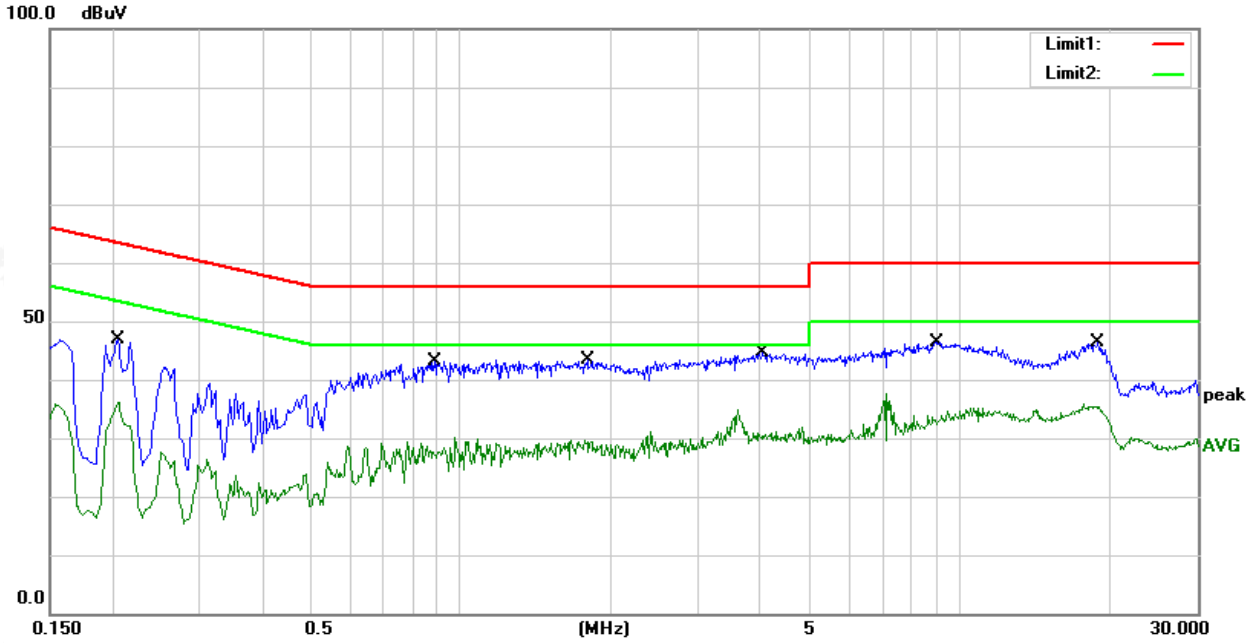
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

3.1.6 TEST RESULTS

Temperature:	25.1℃	Relative Humidity:	59%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode：	Mode 25		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2060	27.56	19.39	46.95	63.37	-16.42	QP
2	0.2060	16.72	19.39	36.11	53.37	-17.26	AVG
3	0.8860	23.77	19.36	43.13	56.00	-12.87	QP
4	0.8860	10.80	19.36	30.16	46.00	-15.84	AVG
5	1.7980	23.94	19.35	43.29	56.00	-12.71	QP
6	1.7980	11.81	19.35	31.16	46.00	-14.84	AVG
7	4.0340	25.16	19.42	44.58	56.00	-11.42	QP
8	4.0340	15.46	19.42	34.88	46.00	-11.12	AVG
9	9.0540	26.84	19.59	46.43	60.00	-13.57	QP
10	9.0540	18.16	19.59	37.75	50.00	-12.25	AVG
11	18.9820	26.73	19.77	46.50	60.00	-13.50	QP
12	18.9820	16.14	19.77	35.91	50.00	-14.09	AVG

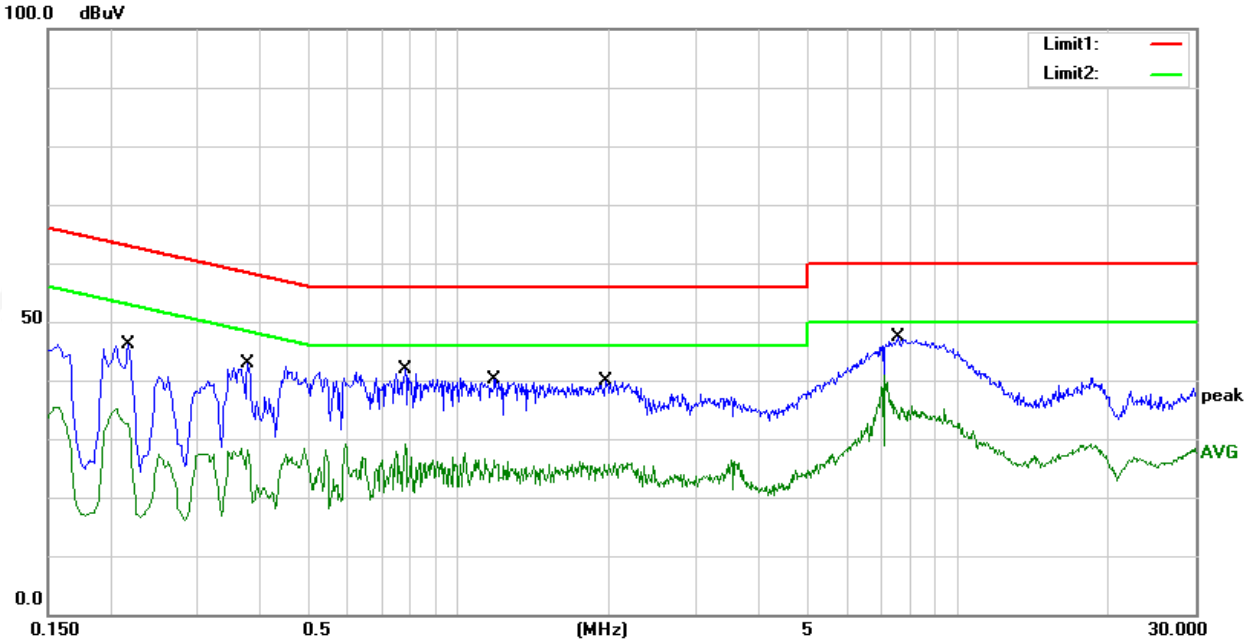
Remark:
1. All readings are Quasi-Peak and Average values
2. Margin = Result (Result =Reading + Factor)–Limit
3. Factor=LISN factor+Cable loss+Limiter (10dB)



Temperature:	25.1℃	Relative Humidity:	59%
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode：	Mode 25		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2180	26.65	19.37	46.02	62.89	-16.87	QP
2	0.2180	15.88	19.37	35.25	52.89	-17.64	AVG
3	0.3780	23.49	19.36	42.85	58.32	-15.47	QP
4	0.3780	8.97	19.36	28.33	48.32	-19.99	AVG
5	0.7820	22.58	19.40	41.98	56.00	-14.02	QP
6	0.7820	9.67	19.40	29.07	46.00	-16.93	AVG
7	1.1820	20.73	19.39	40.12	56.00	-15.88	QP
8	1.1820	8.18	19.39	27.57	46.00	-18.43	AVG
9	1.9780	20.43	19.38	39.81	56.00	-16.19	QP
10	1.9780	6.64	19.38	26.02	46.00	-19.98	AVG
11	7.6260	27.89	19.50	47.39	60.00	-12.61	QP
12	7.6260	21.30	19.50	40.80	50.00	-9.20	AVG

Remark:
1. All readings are Quasi-Peak and Average values
2. Margin = Result (Result =Reading + Factor)–Limit
3. Factor=LISN factor+Cable loss+Limiter (10dB)



3.2 RADIATED EMISSION AND MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

In case the emission fall within the restricted band specified on 15.407(b)7&209(a), then the limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

(1) The limit for radiated test was performed according to FCC PART 15E.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RESTRICTED FREQUENCY BANDS

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			

LIMITS OF EMISSIONS OUTSIDE OF THE FREQUENCY BANDS

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(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.

Note: dBuV/m(at 3M) = EIRP(dBm) + 95.2.

Peak Limit = -27dBm/MHz + 95.2 = 68.2 dBuV/m.

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	10th carrier harmonic (Peak/AV)
RB / VB (emission in restricted band)	1 MHz / 1 MHz, AV=1 MHz /3 MHz

For Band edge

Spectrum Parameter	Setting
Detector	Peak
RB / VB (emission in restricted band)	1 MHz / 1 MHz, AV=1 MHz /3 MHz

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.2.2 TEST PROCEDURE

a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
c. The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and QuasiPeak detector mode will be re-measured.
e. If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

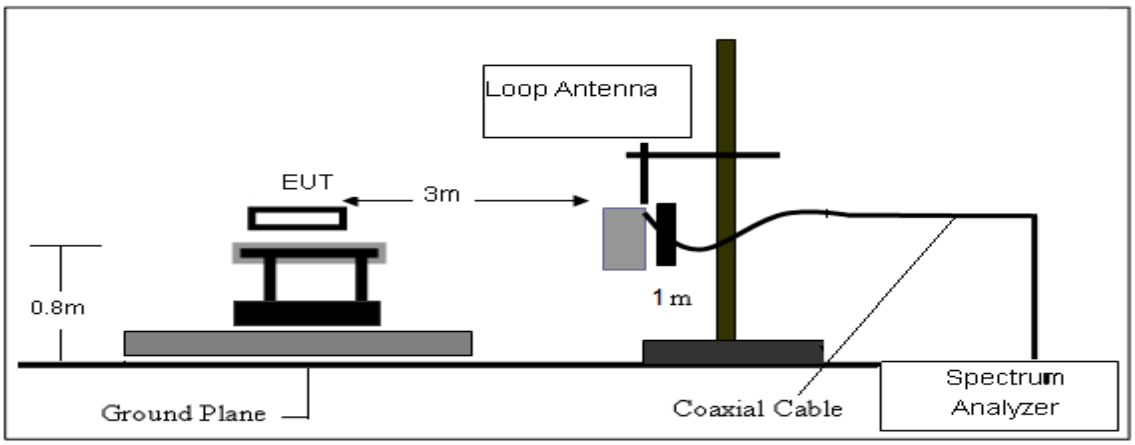
Both horizontal and vertical antenna polarities were tested with a band-stop filter and performed pretest to three orthogonal axis. The worst-case emissions were reported.

3.2.3 DEVIATION FROM TEST STANDARD

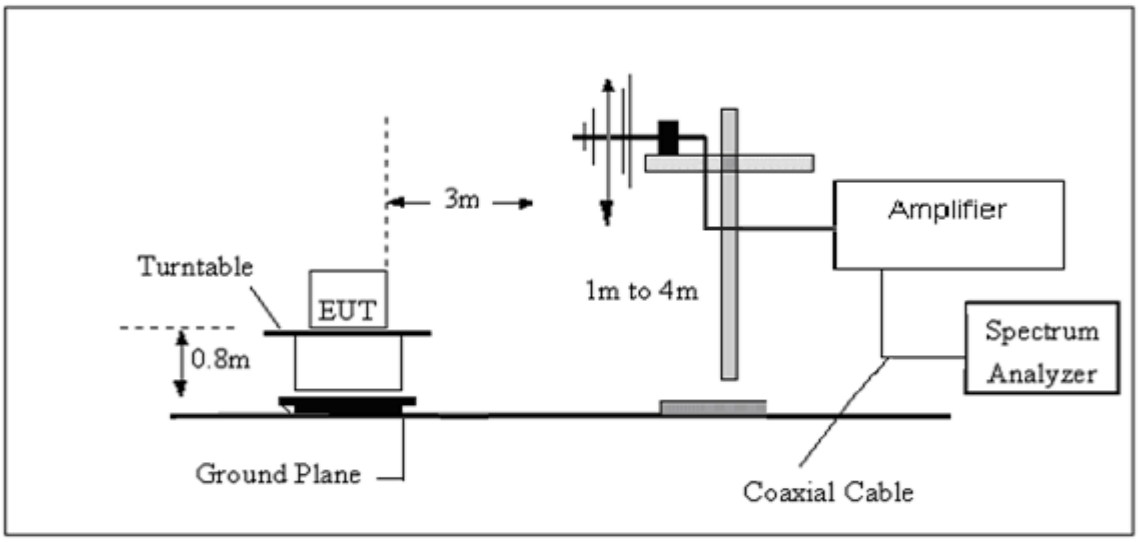
No deviation

3.2.4 TEST SETUP

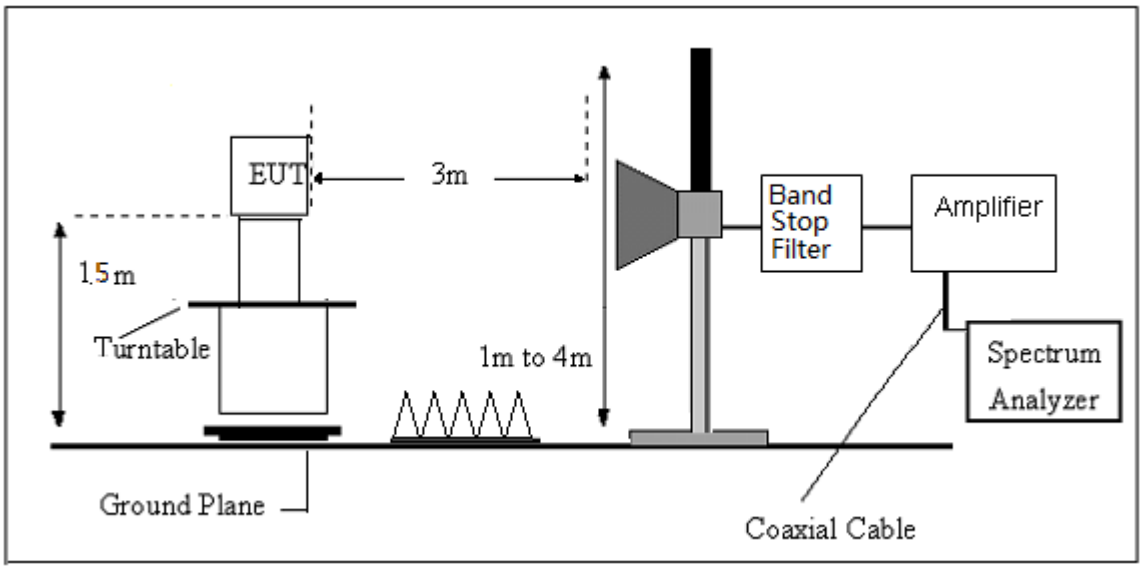
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



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



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.2.6 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:
FS = RA + AF + CL - AG
Where
FS = Field Strength
CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude
AG = Amplifier Gain
AF = Antenna Factor
For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBμV/m)	(dBμV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

Factor=AF+CL-AG

3.2.7 TEST RESULTS (Between 9KHz – 30 MHz)

Temperature:	23.4℃	Relative Humidtity:	60%
Test Voltage:	DC 7.6V	Polarization :	--
Test Mode:	TX Mode		

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
Distance extrapolation factor =40 log (specific distance/test distance)(dB);
Limit line = specific limits(dBuv) + distance extrapolation factor.

3.2.8 TEST RESULTS (Between 30MHz – 1GHz)

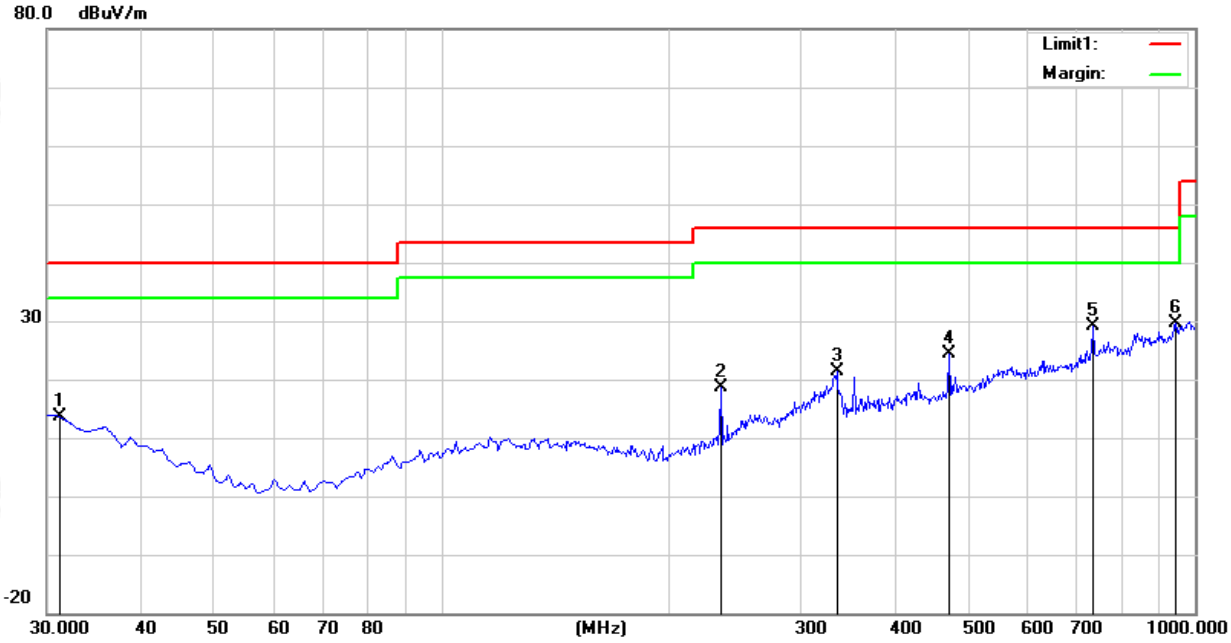
UNII-1

Temperature	23.4℃	Relative Humidtity:	60%
Test Voltage	DC 7.6V	Polarization:	Horizontal
Test Mode	802.11n20 (Low Channel-worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	31.1798	27.04	-13.46	13.58	40.00	-26.42	peak
2	235.6400	37.28	-18.62	18.66	46.00	-27.34	peak
3	335.5500	34.82	-13.54	21.28	46.00	-24.72	peak
4	472.3200	33.32	-8.92	24.40	46.00	-21.60	peak
5	733.2500	31.45	-2.35	29.10	46.00	-16.90	peak
6	944.7100	28.13	1.48	29.61	46.00	-16.39	peak

Remark:

1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain

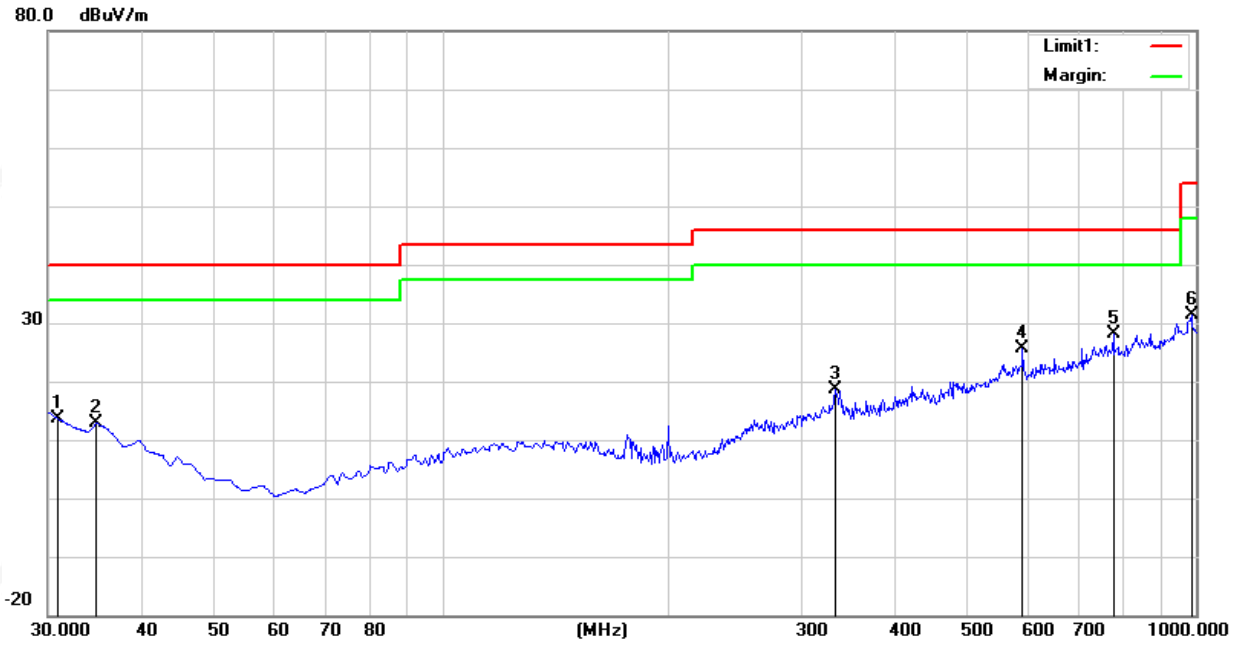


Temperature	23.4℃	Relative Humidtity:	60%
Test Voltage	DC 7.6V	Polarization:	Vertical
Test Mode	802.11n20		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.9700	26.94	-13.35	13.59	40.00	-26.41	peak
2	34.8500	28.12	-15.34	12.78	40.00	-27.22	peak
3	332.6400	32.35	-13.62	18.73	46.00	-27.27	peak
4	589.6900	31.40	-5.83	25.57	46.00	-20.43	peak
5	778.8400	30.34	-2.23	28.11	46.00	-17.89	peak
6	988.3600	29.25	2.15	31.40	54.00	-22.60	peak

Remark:

3. Margin = Result (Result =Reading + Factor)–Limit
4. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



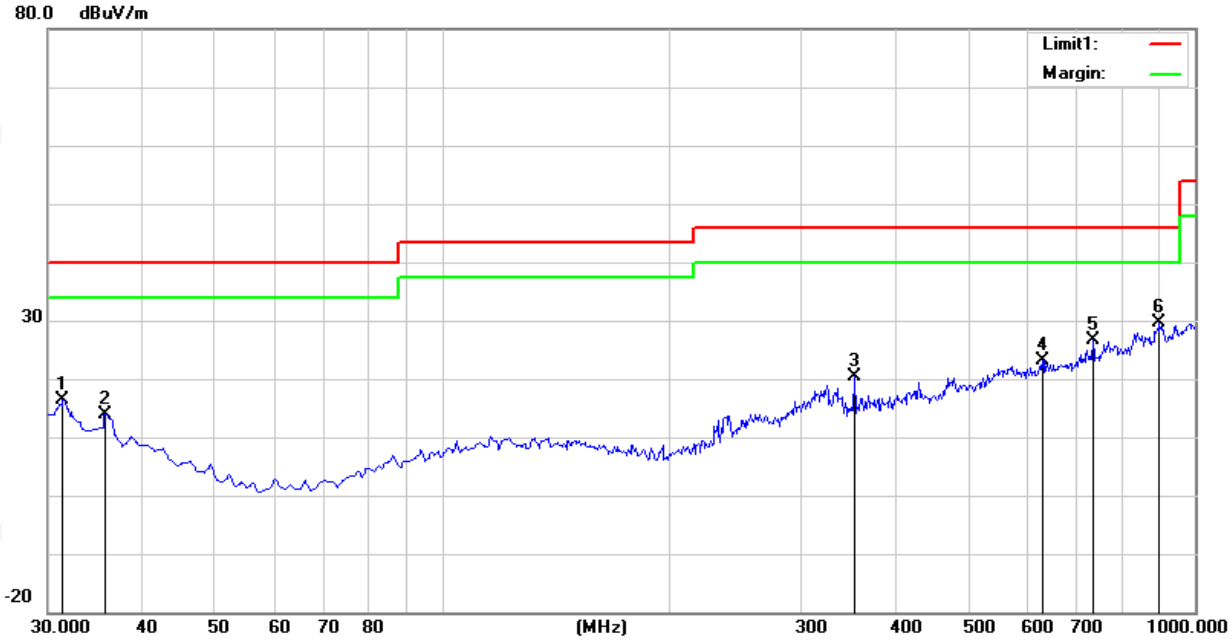
UNII-2A

Temperature	23.4℃	Relative Humidtity:	60%
Test Voltage	DC 7.6V	Polarization:	Horizontal
Test Mode	802.11n20(Low Channel-worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	31.3992	29.94	-13.57	16.37	40.00	-23.63	peak
2	35.8200	29.76	-15.91	13.85	40.00	-26.15	peak
3	353.9800	33.34	-12.98	20.36	46.00	-25.64	peak
4	627.5200	28.30	-5.15	23.15	46.00	-22.85	peak
5	733.2500	28.95	-2.35	26.60	46.00	-19.40	peak
6	900.0900	30.17	-0.45	29.72	46.00	-16.28	peak

Remark:

5. Margin = Result (Result =Reading + Factor)–Limit
6. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain

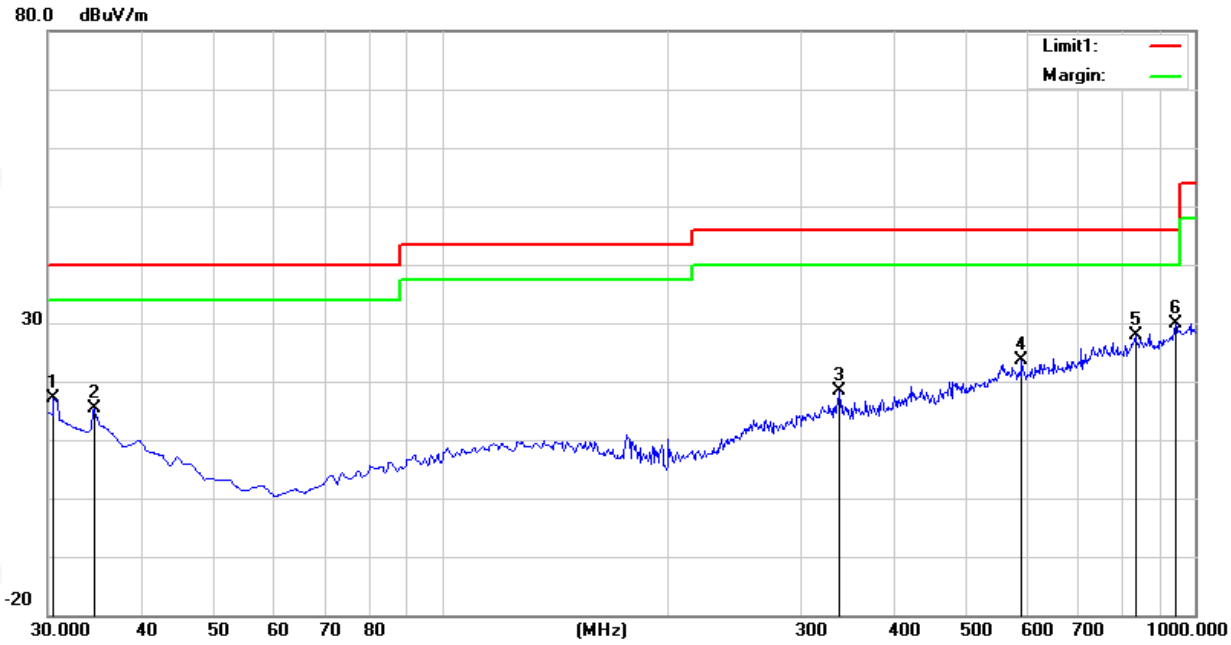


Temperature	23.4℃	Relative Humidtity:	60%
Test Voltage	DC 7.6V	Polarization:	Vertical
Test Mode	802.11n20		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.5304	30.24	-13.12	17.12	40.00	-22.88	peak
2	34.6385	30.69	-15.23	15.46	40.00	-24.54	peak
3	337.4900	31.81	-13.49	18.32	46.00	-27.68	peak
4	589.6900	29.40	-5.83	23.57	46.00	-22.43	peak
5	836.0700	28.48	-0.50	27.98	46.00	-18.02	peak
6	944.7100	28.34	1.48	29.82	46.00	-16.18	peak

Remark:

7. Margin = Result (Result =Reading + Factor)–Limit
8. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



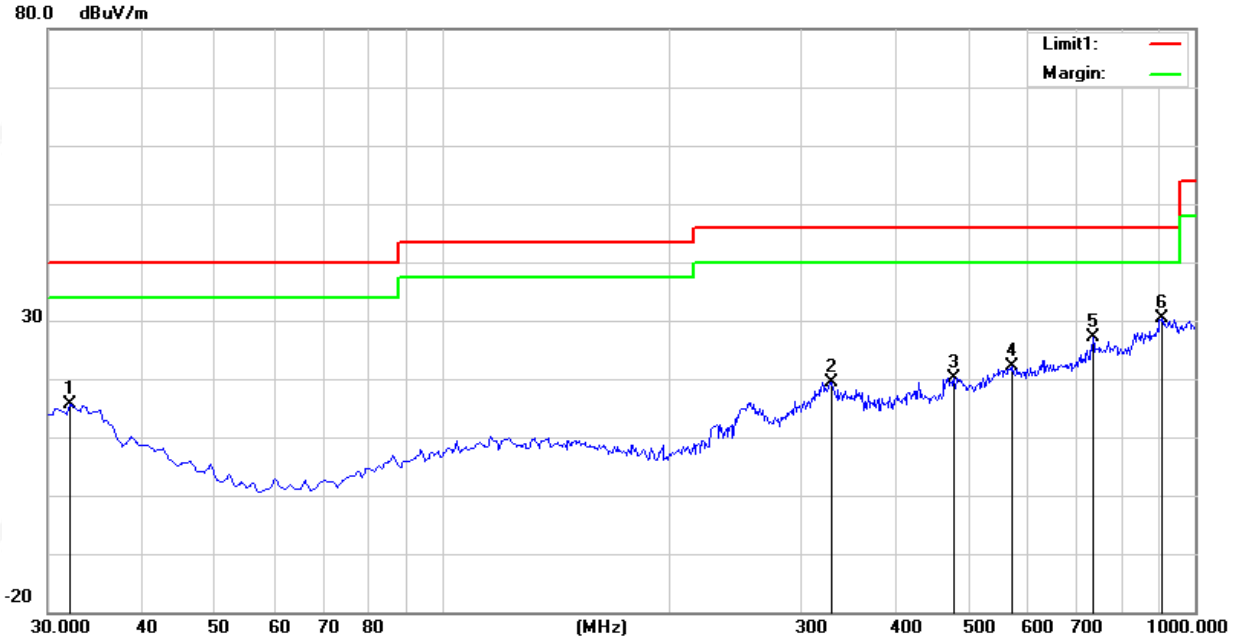
UNII-2C

Temperature	23.4℃	Relative Humidtity:	60%
Test Voltage	DC 7.6V	Polarization:	Horizontal
Test Mode	802.11n20(Middle Channel-worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	32.0667	29.60	-13.92	15.68	40.00	-24.32	peak
2	329.7300	33.13	-13.71	19.42	46.00	-26.58	peak
3	480.0800	28.81	-8.65	20.16	46.00	-25.84	peak
4	573.2000	27.66	-5.65	22.01	46.00	-23.99	peak
5	733.2500	29.45	-2.35	27.10	46.00	-18.90	peak
6	903.9700	30.62	-0.34	30.28	46.00	-15.72	peak

Remark:

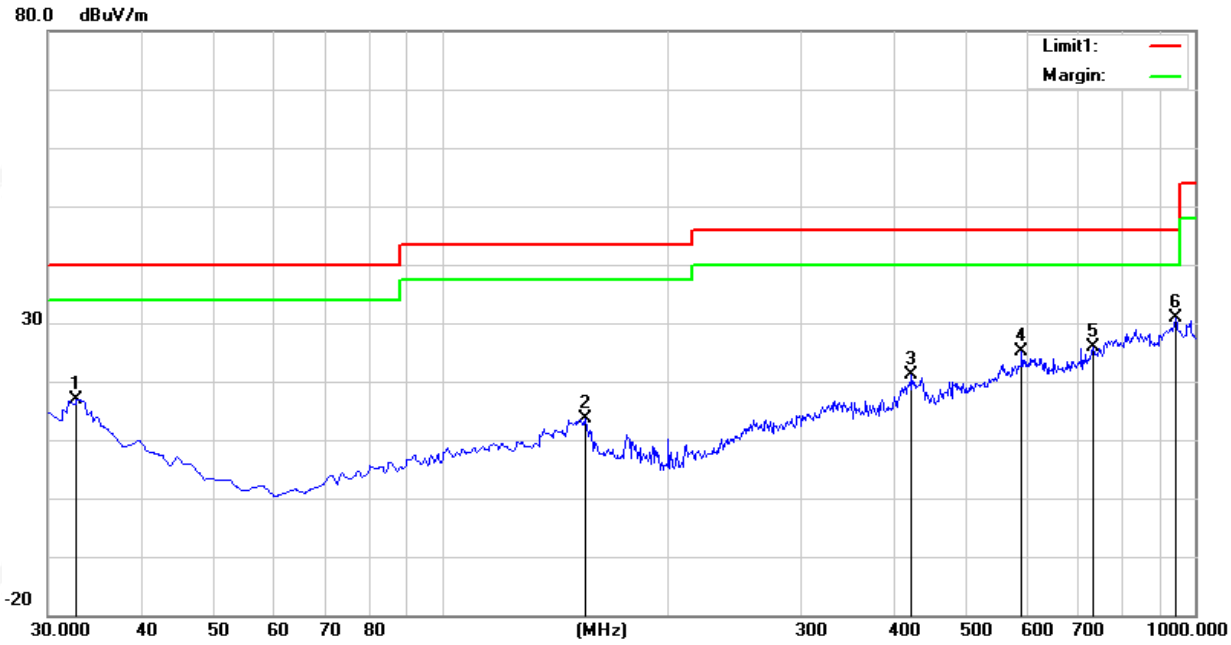
9. Margin = Result (Result =Reading + Factor)–Limit
10. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature	23.4℃	Relative Humidtity:	60%
Test Voltage	DC 7.6V	Polarization:	Vertical
Test Mode	802.11n20		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	32.7486	31.23	-14.25	16.98	40.00	-23.02	peak
2	155.1300	32.35	-18.63	13.72	43.50	-29.78	peak
3	421.8800	31.24	-10.10	21.14	46.00	-24.86	peak
4	589.6900	30.90	-5.83	25.07	46.00	-20.93	peak
5	733.2500	28.33	-2.35	25.98	46.00	-20.02	peak
6	944.7100	29.34	1.48	30.82	46.00	-15.18	peak

Remark:
11. Margin = Result (Result =Reading + Factor)–Limit
12. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain

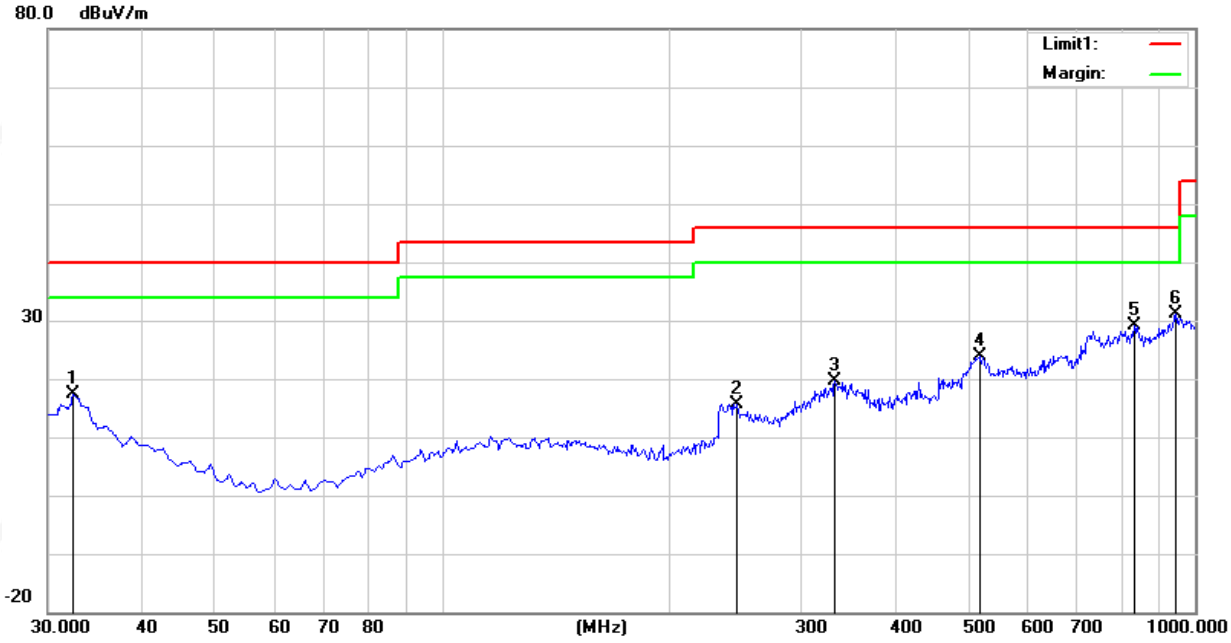


UNII-3

Temperature	23.4℃	Relative Humidtity:	60%
Test Voltage	DC 7.6V	Polarization:	Horizontal
Test Mode	802.11n20(Middle Channel-worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	32.4060	31.34	-14.08	17.26	40.00	-22.74	peak
2	247.2800	32.33	-16.59	15.74	46.00	-30.26	peak
3	333.6100	33.34	-13.59	19.75	46.00	-26.25	peak
4	518.8800	31.60	-7.84	23.76	46.00	-22.24	peak
5	832.1900	29.74	-0.66	29.08	46.00	-16.92	peak
6	944.7100	29.63	1.48	31.11	46.00	-14.89	peak

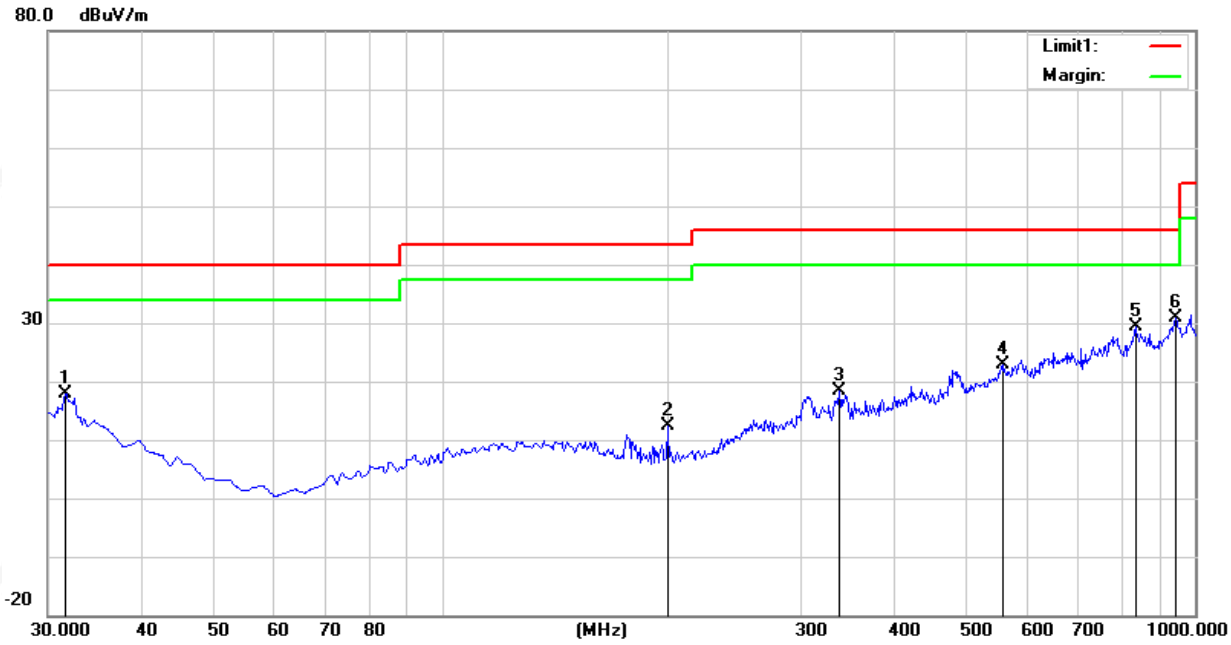
Remark:
13. Margin = Result (Result =Reading + Factor)–Limit
14. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature	23.4℃	Relative Humidtity:	60%
Test Voltage	DC 7.6V	Polarization:	Vertical
Test Mode	802.11n20		

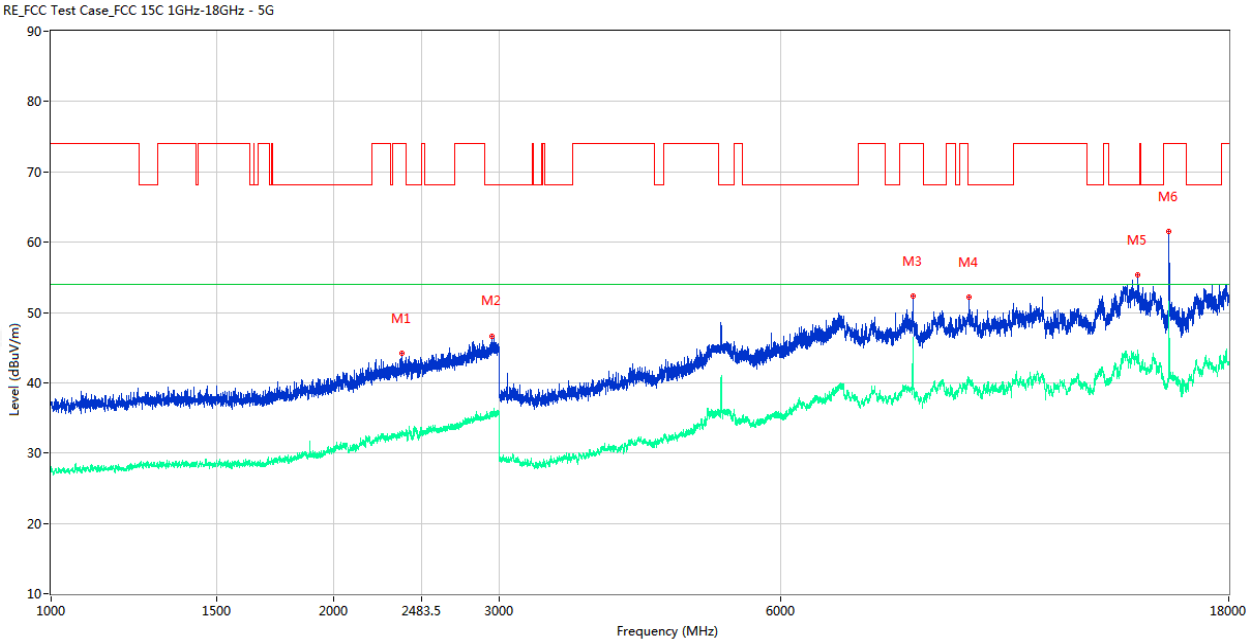
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	31.6202	31.62	-13.69	17.93	40.00	-22.07	peak
2	199.7500	33.41	-21.11	12.30	43.50	-31.20	peak
3	337.4900	31.81	-13.49	18.32	46.00	-27.68	peak
4	556.7100	28.34	-5.58	22.76	46.00	-23.24	peak
5	836.0700	29.98	-0.50	29.48	46.00	-16.52	peak
6	944.7100	29.34	1.48	30.82	46.00	-15.18	peak

Remark:
15. Margin = Result (Result =Reading + Factor)–Limit
16. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



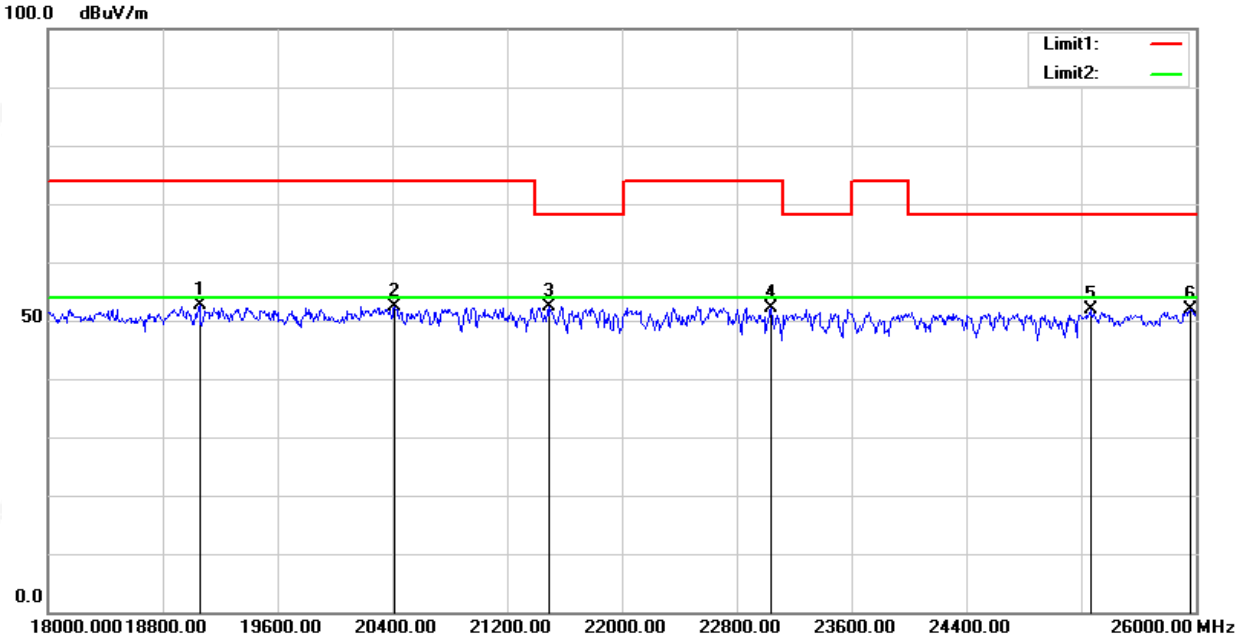
3.2.8 TEST RESULTS (Above 1000 MHz)

U-NII-1
Worst mode (802.11n20)
Low
RSE-1G-18G-H



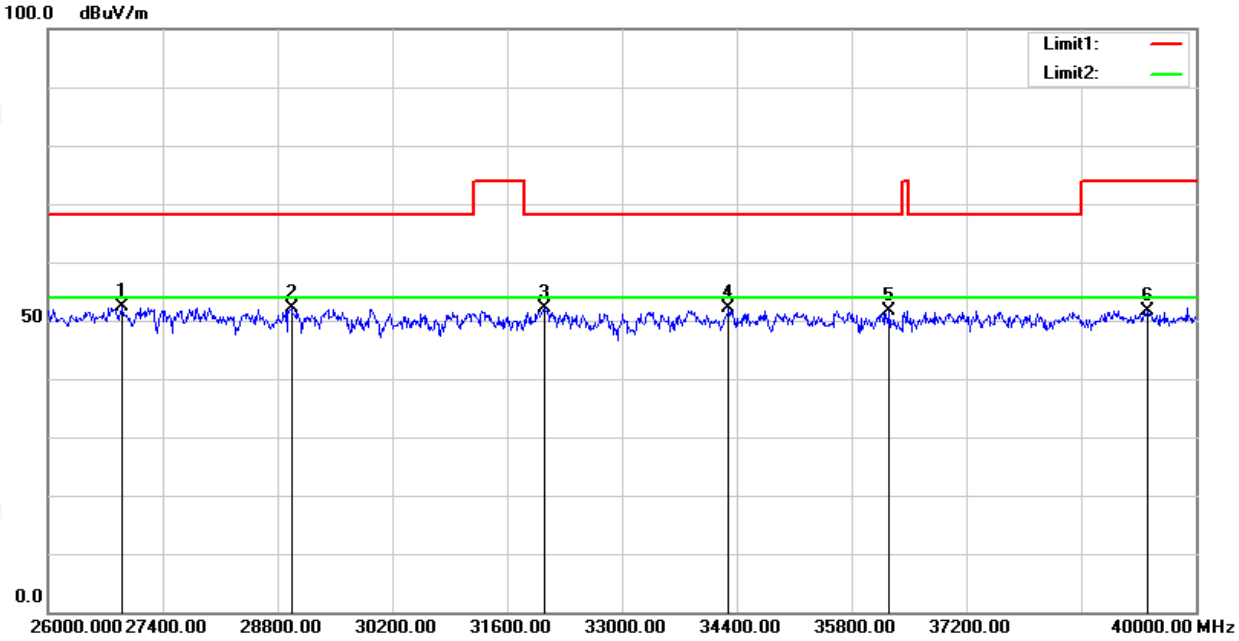
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2364.000	44.19	2.85	74.0	29.81	Peak	297.00	Horizontal	Pass
1**	2364.000	32.69	2.85	54.0	21.31	AV	297.00	Horizontal	Pass
2	2952.000	46.67	5.22	68.2	21.53	Peak	187.70	Horizontal	Pass
2**	2952.000	35.38	5.22	54.0	18.62	AV	187.70	Horizontal	Pass
3	8287.000	52.33	-0.30	74.0	21.67	Peak	333.10	Horizontal	Pass
3**	8287.000	46.47	-0.30	54.0	7.53	AV	333.10	Horizontal	Pass
4	9519.000	52.13	1.36	68.2	16.07	Peak	169.40	Horizontal	Pass
4**	9519.000	40.31	1.36	54.0	13.69	AV	169.40	Horizontal	Pass
5	14408.500	55.36	6.93	68.2	12.84	Peak	168.00	Horizontal	Pass
5**	14408.500	44.15	6.93	54.0	9.85	AV	168.00	Horizontal	Pass
6	15541.500	61.50	3.32	74.0	12.50	Peak	343.10	Horizontal	Pass
6**	15541.500	50.89	3.32	54.0	3.11	AV	343.10	Horizontal	Pass

RSE-18G-26G-H



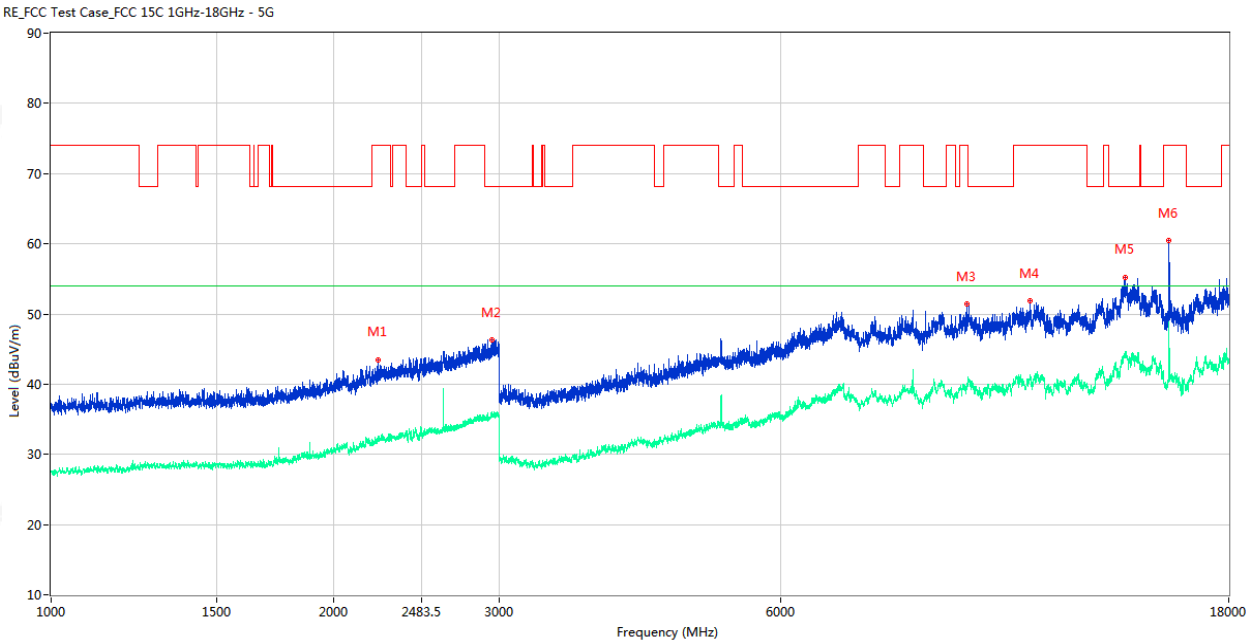
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	19056.000	50.88	1.72	52.60	54.00	-1.40	peak
2	20416.000	50.20	2.16	52.36	54.00	-1.64	peak
3	21488.000	49.54	2.94	52.48	68.20	-15.72	peak
4	23040.000	48.56	3.67	52.23	54.00	-1.77	peak
5	25264.000	46.31	5.48	51.79	68.20	-16.41	peak
6	25960.000	46.14	5.79	51.93	68.20	-16.27	peak

RSE-26G-40G-H



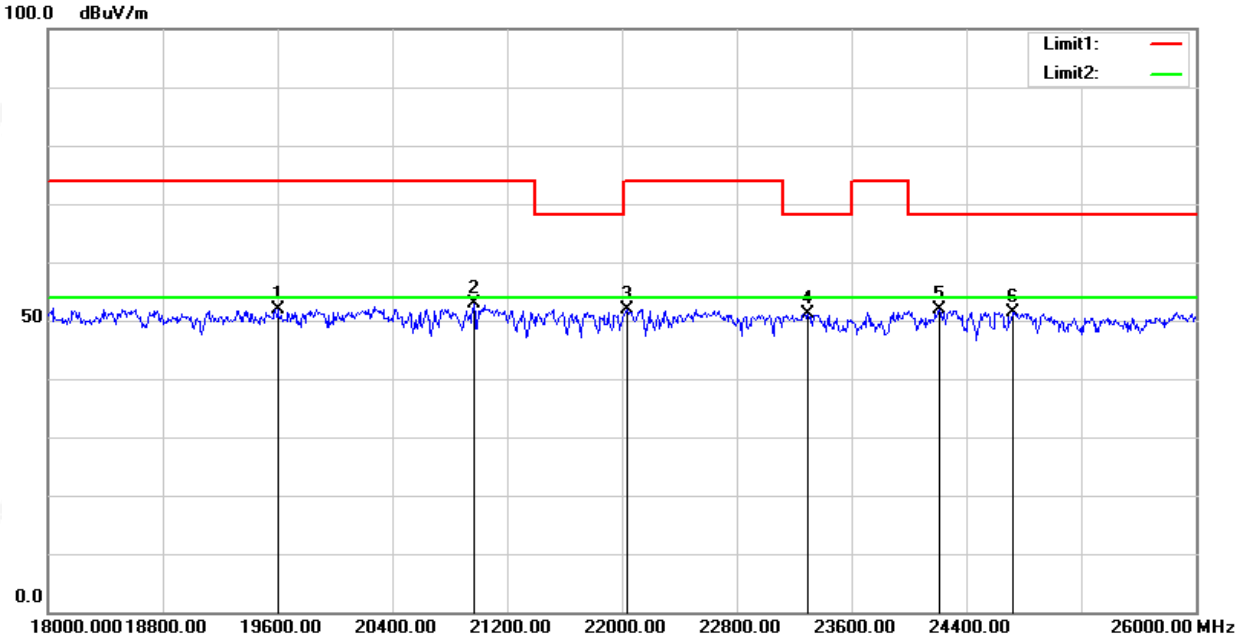
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	26910.000	45.76	6.51	52.27	68.20	-15.93	peak
2	28968.000	43.28	8.94	52.22	68.20	-15.98	peak
3	32048.000	42.99	9.24	52.23	68.20	-15.97	peak
4	34302.000	42.64	9.49	52.13	68.20	-16.07	peak
5	36262.000	42.82	8.88	51.70	68.20	-16.50	peak
6	39412.000	43.88	7.82	51.70	54.00	-2.30	peak

RSE-1G-18G-V



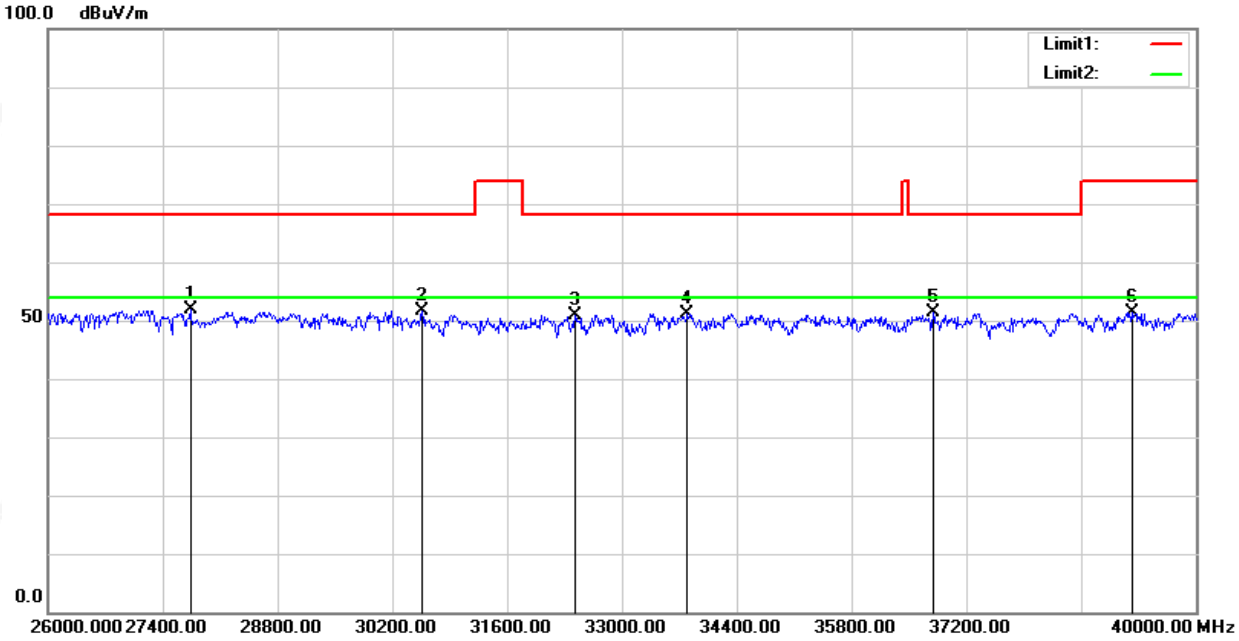
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2233.000	43.37	1.93	74.0	30.63	Peak	91.70	Vertical	Pass
1**	2233.000	32.29	1.93	54.0	21.71	AV	91.70	Vertical	Pass
2	2950.500	46.29	5.22	68.2	21.91	Peak	0.10	Vertical	Pass
2**	2950.500	35.55	5.22	54.0	18.45	AV	0.10	Vertical	Pass
3	9475.000	51.39	1.40	74.0	22.61	Peak	18.10	Vertical	Pass
3**	9475.000	39.89	1.40	54.0	14.11	AV	18.10	Vertical	Pass
4	11050.750	51.95	1.93	74.0	22.05	Peak	352.10	Vertical	Pass
4**	11050.750	41.41	1.93	54.0	12.59	AV	352.10	Vertical	Pass
5	13946.500	55.25	7.78	68.2	12.95	Peak	118.20	Vertical	Pass
5**	13946.500	44.33	7.78	54.0	9.67	AV	118.20	Vertical	Pass
6	15541.500	60.43	3.32	74.0	13.57	Peak	355.00	Vertical	Pass
6**	15541.500	48.65	3.32	54.0	5.35	AV	355.00	Vertical	Pass

RSE-18G-26G-V



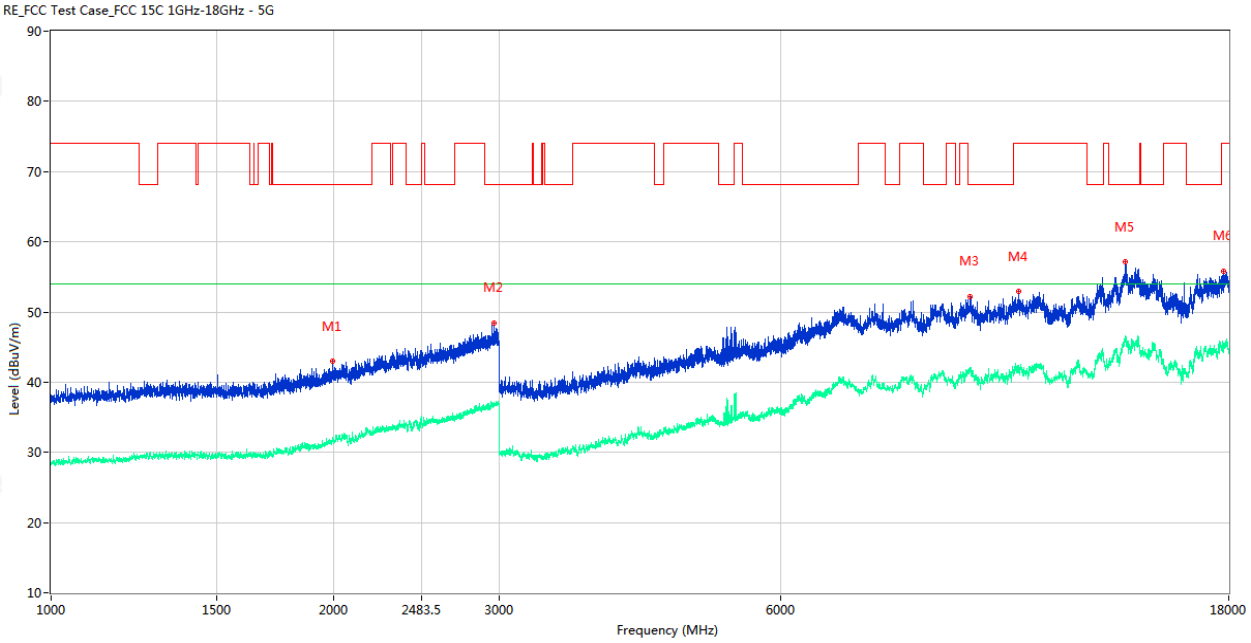
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	19600.000	50.30	1.54	51.84	54.00	-2.16	peak
2	20968.000	50.13	2.63	52.76	54.00	-1.24	peak
3	22032.000	48.53	3.45	51.98	54.00	-2.02	peak
4	23296.000	47.16	3.93	51.09	68.20	-17.11	peak
5	24216.000	47.33	4.67	52.00	68.20	-16.20	peak
6	24728.000	46.47	4.98	51.45	68.20	-16.75	peak

RSE-26G-40G-V



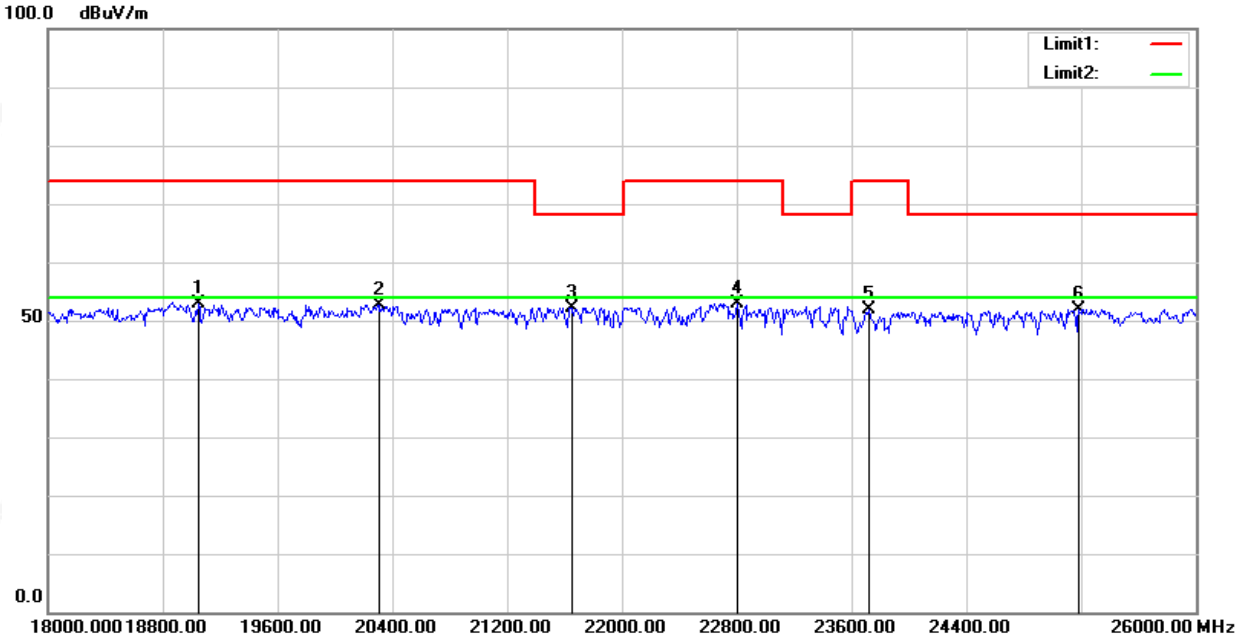
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	27736.000	44.65	7.11	51.76	68.20	-16.44	peak
2	30564.000	42.75	8.90	51.65	68.20	-16.55	peak
3	32426.000	41.79	9.18	50.97	68.20	-17.23	peak
4	33798.000	41.93	9.31	51.24	68.20	-16.96	peak
5	36794.000	43.27	8.08	51.35	68.20	-16.85	peak
6	39216.000	43.92	7.41	51.33	54.00	-2.67	peak

Middle
RSE-1G-18G-H



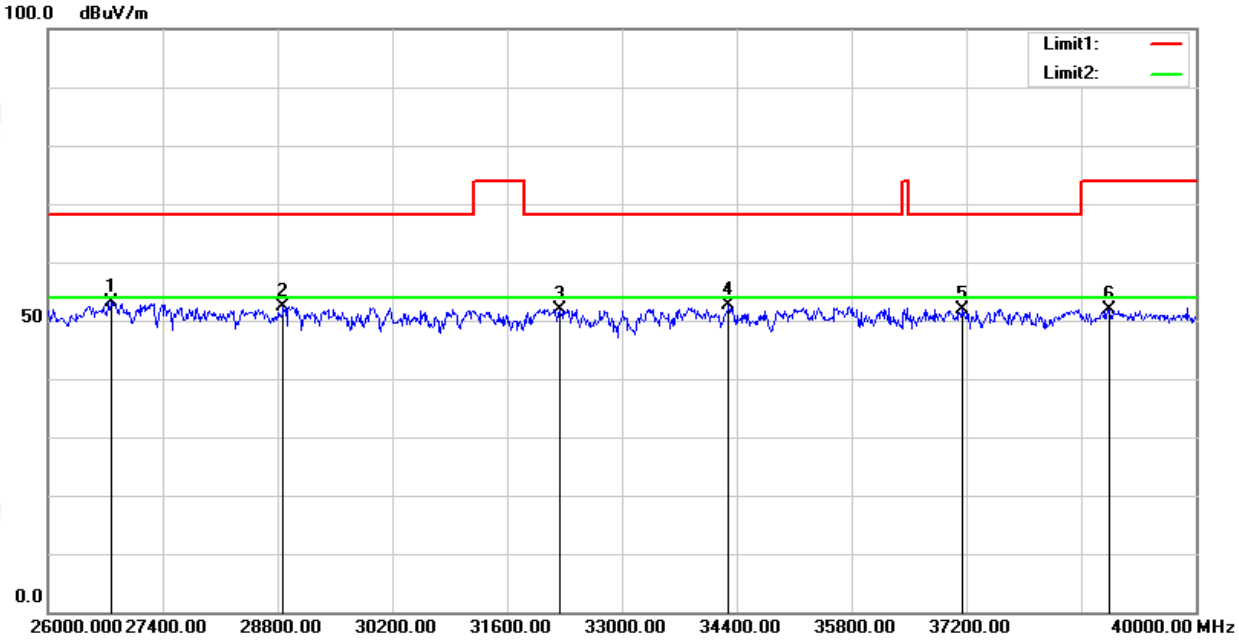
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1993.500	42.98	0.34	68.2	25.22	Peak	266.10	Horizontal	Pass
1**	1993.500	31.88	0.34	54.0	22.12	AV	266.10	Horizontal	Pass
2	2967.500	48.47	5.30	68.2	19.73	Peak	180.20	Horizontal	Pass
2**	2967.500	36.59	5.30	54.0	17.41	AV	180.20	Horizontal	Pass
3	9546.500	52.25	1.09	68.2	15.95	Peak	127.10	Horizontal	Pass
3**	9546.500	41.92	1.09	54.0	12.08	AV	127.10	Horizontal	Pass
4	10742.750	52.89	1.53	74.0	21.11	Peak	19.70	Horizontal	Pass
4**	10742.750	42.25	1.53	54.0	11.75	AV	19.70	Horizontal	Pass
5	13957.500	57.13	7.92	68.2	11.07	Peak	275.90	Horizontal	Pass
5**	13957.500	46.17	7.92	54.0	7.83	AV	275.90	Horizontal	Pass
6	17782.749	55.88	6.30	74.0	18.12	Peak	125.20	Horizontal	Pass
6**	17782.749	45.62	6.30	54.0	8.38	AV	125.20	Horizontal	Pass

RSE-18G-26G-H



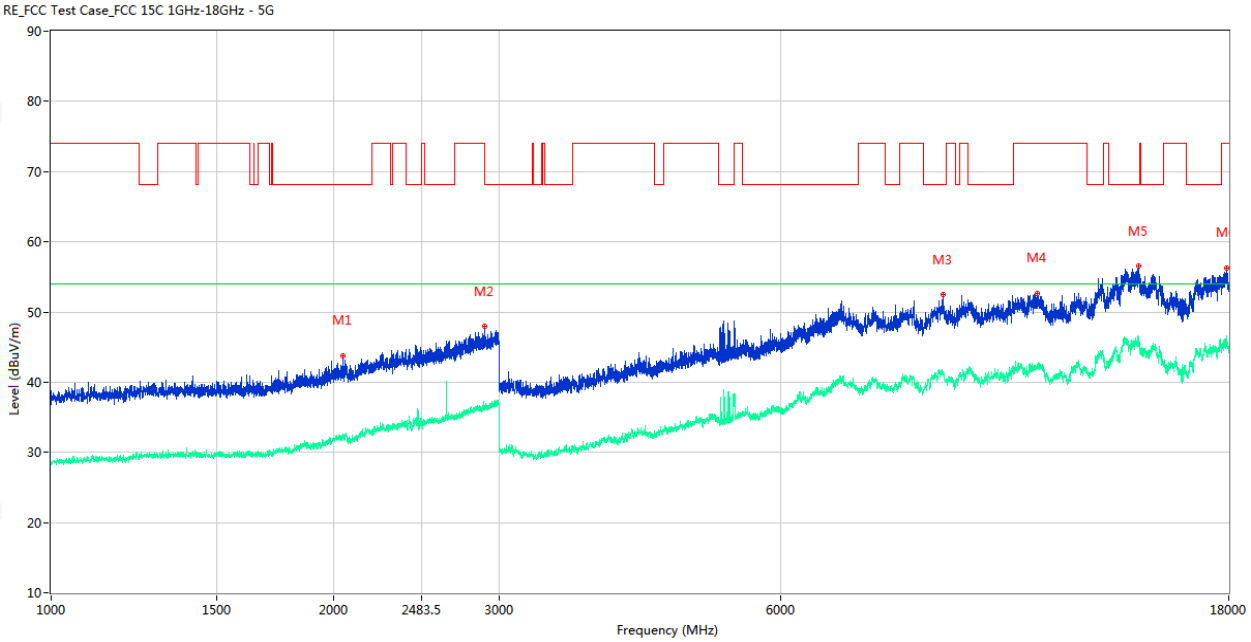
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	19048.000	51.26	1.72	52.98	74.00	-21.02	peak
2	20304.000	50.64	2.06	52.70	74.00	-21.30	peak
3	21648.000	49.16	3.08	52.24	68.20	-15.96	peak
4	22800.000	49.15	3.75	52.90	74.00	-21.10	peak
5	23720.000	47.46	4.35	51.81	74.00	-22.19	peak
6	25184.000	46.57	5.43	52.00	68.20	-16.20	peak

RSE-26G-40G-H



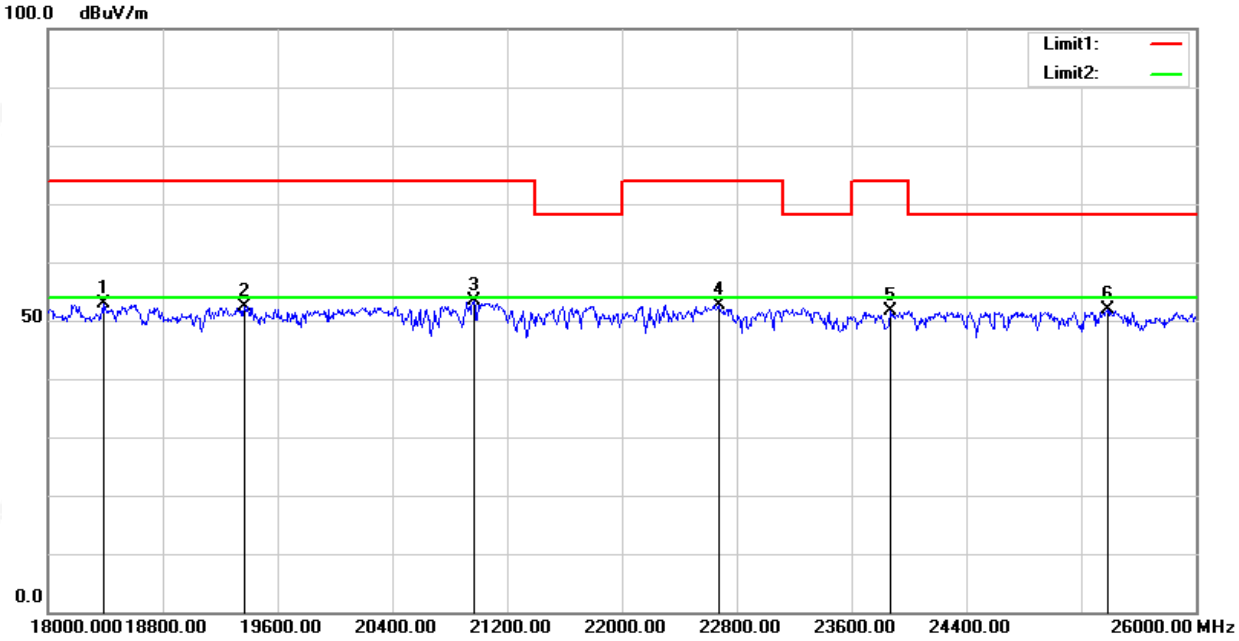
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	26770.000	46.88	6.36	53.24	68.20	-14.96	peak
2	28870.000	43.69	8.78	52.47	68.20	-15.73	peak
3	32244.000	42.76	9.21	51.97	68.20	-16.23	peak
4	34302.000	43.14	9.49	52.63	68.20	-15.57	peak
5	37144.000	44.34	7.64	51.98	68.20	-16.22	peak
6	38950.000	44.94	6.91	51.85	54.00	-2.15	peak

RSE-1G-18G-V



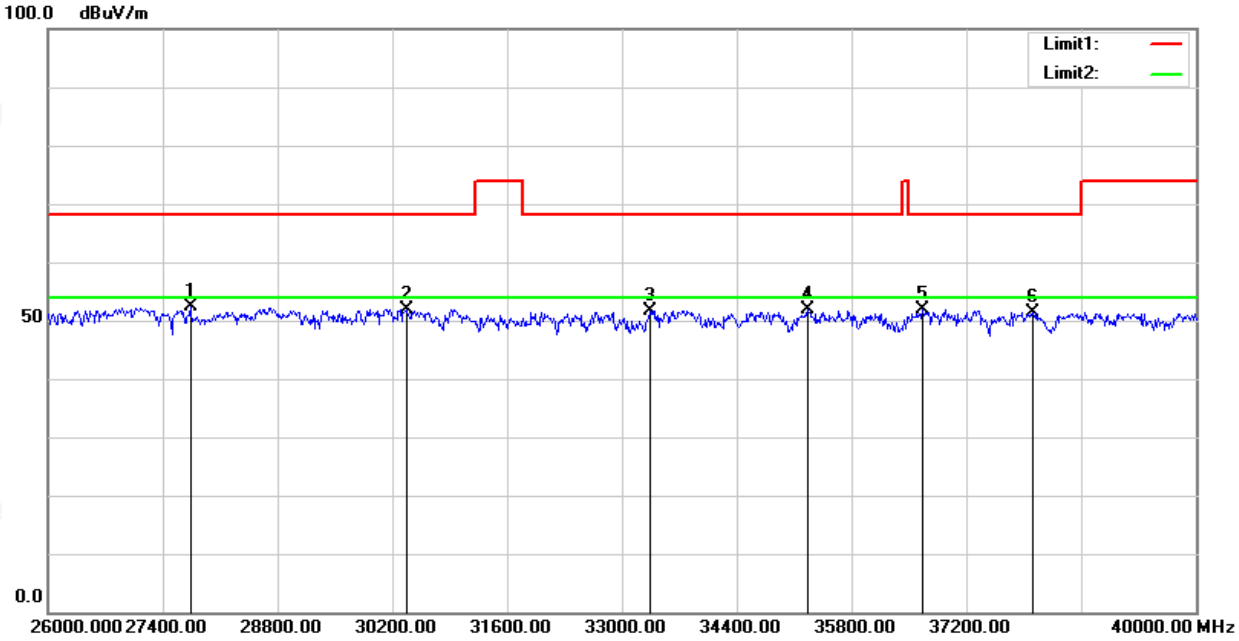
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2045.000	43.82	0.77	68.2	24.38	Peak	143.20	Vertical	Pass
1**	2045.000	32.24	0.77	54.0	21.76	AV	143.20	Vertical	Pass
2	2898.000	48.02	4.90	74.0	25.98	Peak	123.90	Vertical	Pass
2**	2898.000	36.28	4.90	54.0	17.72	AV	123.90	Vertical	Pass
3	8919.500	52.47	1.30	68.2	15.73	Peak	135.00	Vertical	Pass
3**	8919.500	41.54	1.30	54.0	12.46	AV	135.00	Vertical	Pass
4	11237.750	52.70	2.49	74.0	21.30	Peak	136.80	Vertical	Pass
4**	11237.750	42.32	2.49	54.0	11.68	AV	136.80	Vertical	Pass
5	14425.000	56.57	6.81	68.2	11.63	Peak	78.10	Vertical	Pass
5**	14425.000	46.07	6.81	54.0	7.93	AV	78.10	Vertical	Pass
6	17898.250	56.31	7.22	74.0	17.69	Peak	91.10	Vertical	Pass
6**	17898.250	45.99	7.22	54.0	8.01	AV	91.10	Vertical	Pass

RSE-18G-26G-V



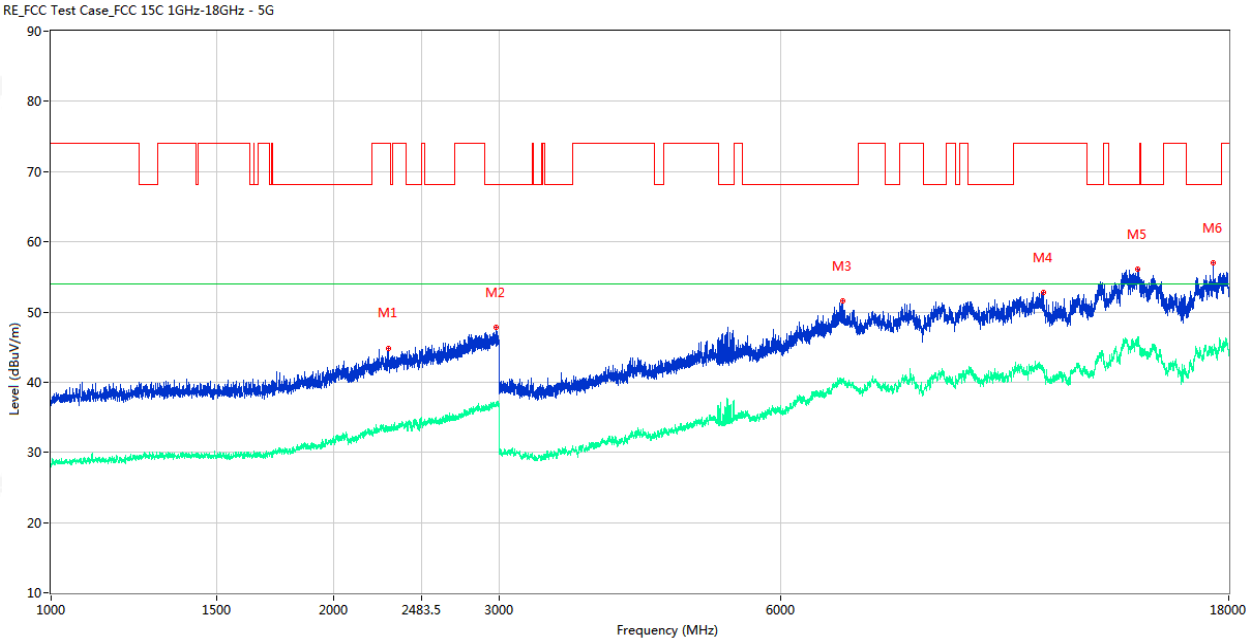
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18392.000	50.60	2.35	52.95	54.00	-1.05	peak
2	19368.000	50.89	1.55	52.44	54.00	-1.56	peak
3	20968.000	50.63	2.63	53.26	54.00	-0.74	peak
4	22680.000	48.89	3.82	52.71	54.00	-1.29	peak
5	23872.000	47.11	4.51	51.62	54.00	-2.38	peak
6	25384.000	46.21	5.57	51.78	68.20	-16.42	peak

RSE-26G-40G-V



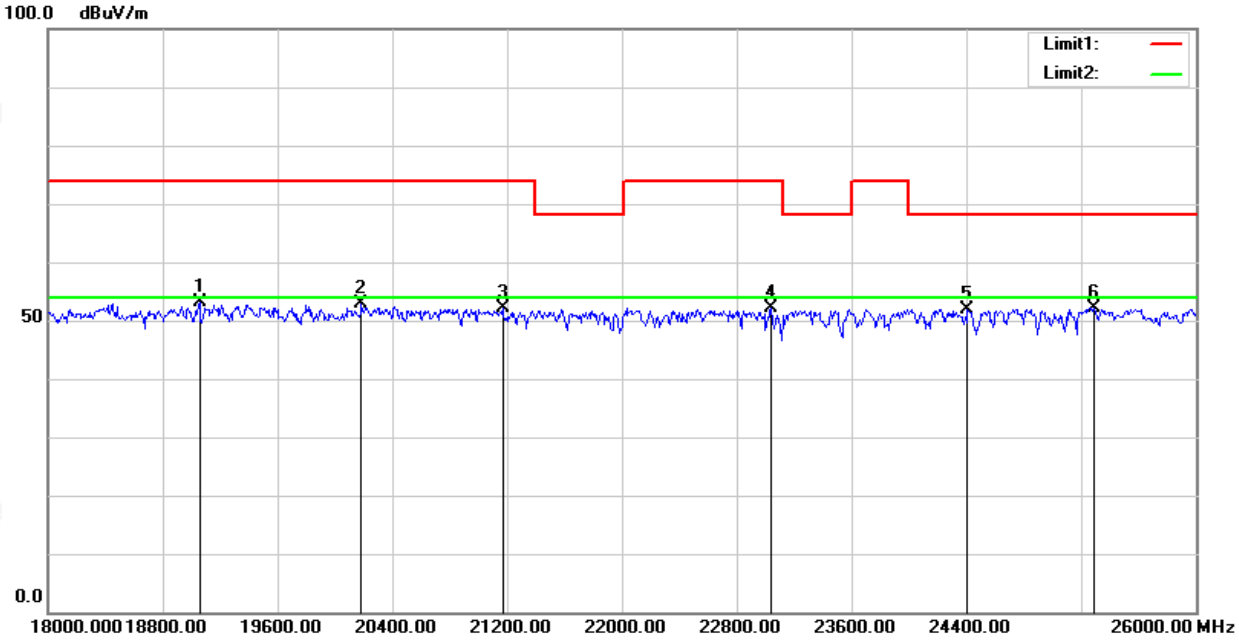
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	27736.000	45.15	7.11	52.26	68.20	-15.94	peak
2	30368.000	43.03	8.94	51.97	68.20	-16.23	peak
3	33336.000	42.51	9.12	51.63	68.20	-16.57	peak
4	35268.000	42.10	9.74	51.84	68.20	-16.36	peak
5	36668.000	43.71	8.24	51.95	68.20	-16.25	peak
6	38012.000	44.77	6.68	51.45	68.20	-16.75	peak

High
RSE-1G-18G-H



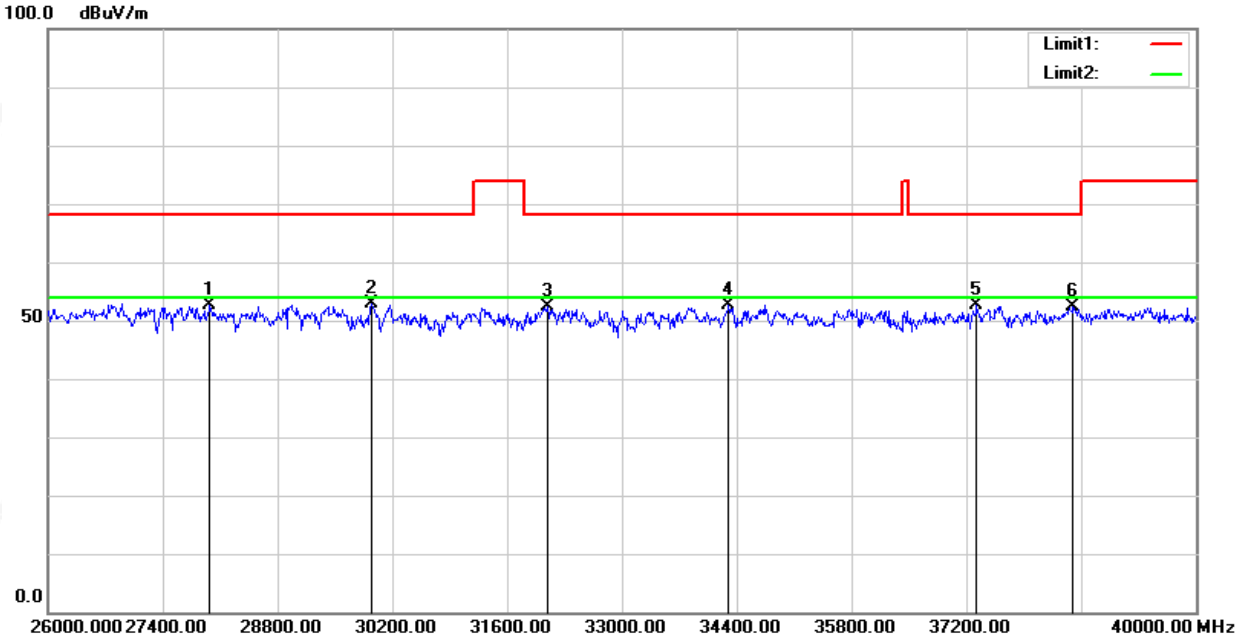
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2286.000	44.86	2.21	74.0	29.14	Peak	252.50	Horizontal	Pass
1**	2286.000	33.08	2.21	54.0	20.92	AV	252.50	Horizontal	Pass
2	2980.000	47.76	5.36	68.2	20.44	Peak	246.10	Horizontal	Pass
2**	2980.000	36.83	5.36	54.0	17.17	AV	246.10	Horizontal	Pass
3	6980.000	51.61	1.16	68.2	16.59	Peak	174.90	Horizontal	Pass
3**	6980.000	40.14	1.16	54.0	13.86	AV	174.90	Horizontal	Pass
4	11419.250	52.80	1.95	74.0	21.20	Peak	310.10	Horizontal	Pass
4**	11419.250	42.16	1.95	54.0	11.84	AV	310.10	Horizontal	Pass
5	14397.500	56.12	6.99	68.2	12.08	Peak	175.80	Horizontal	Pass
5**	14397.500	45.77	6.99	54.0	8.23	AV	175.80	Horizontal	Pass
6	17318.001	57.04	6.29	68.2	11.16	Peak	273.30	Horizontal	Pass
6**	17318.001	44.42	6.29	54.0	9.58	AV	273.30	Horizontal	Pass

RSE-18G-26G-H



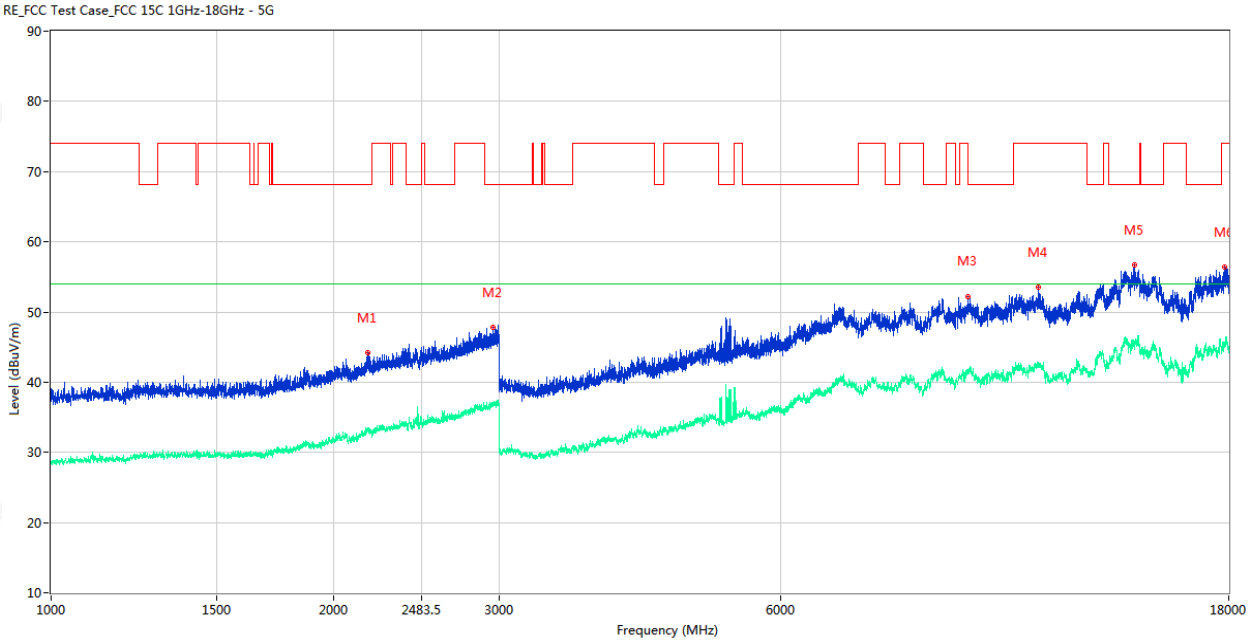
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	19056.000	51.38	1.72	53.10	54.00	-0.90	peak
2	20184.000	50.81	1.96	52.77	54.00	-1.23	peak
3	21168.000	49.26	2.75	52.01	54.00	-1.99	peak
4	23040.000	48.56	3.67	52.23	54.00	-1.77	peak
5	24408.000	47.29	4.70	51.99	68.20	-16.21	peak
6	25288.000	46.67	5.51	52.18	68.20	-16.02	peak

RSE-26G-40G-H



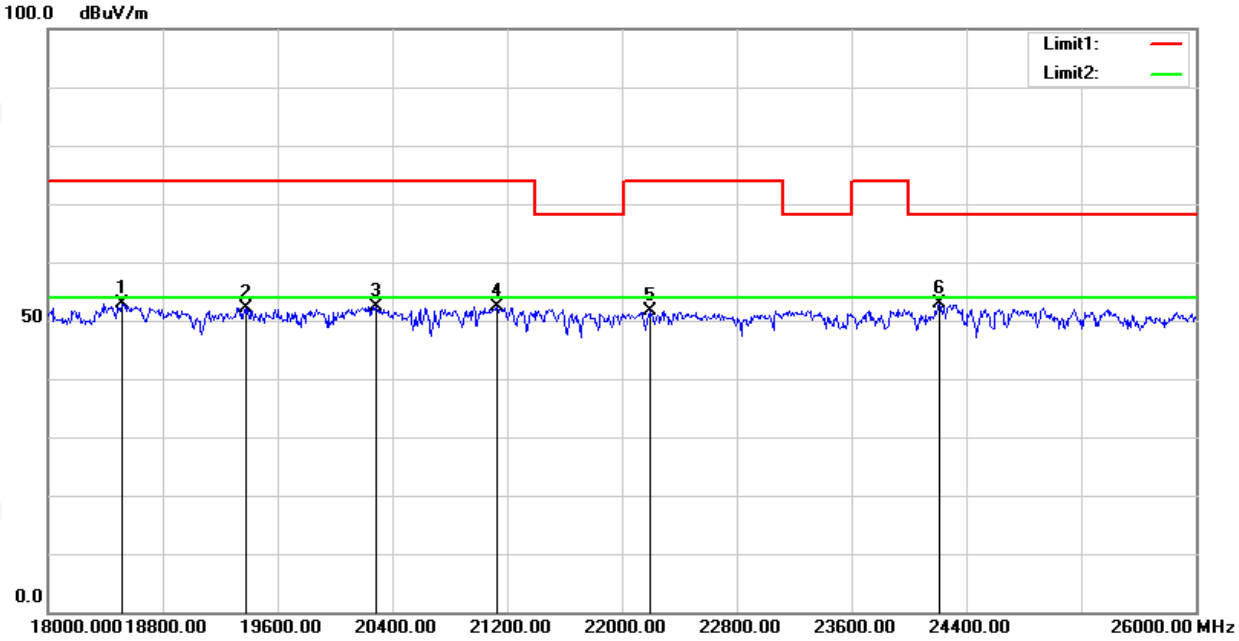
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	27974.000	45.25	7.33	52.58	68.20	-15.62	peak
2	29948.000	43.94	9.05	52.99	68.20	-15.21	peak
3	32090.000	43.12	9.23	52.35	68.20	-15.85	peak
4	34302.000	43.14	9.49	52.63	68.20	-15.57	peak
5	37326.000	45.20	7.44	52.64	68.20	-15.56	peak
6	38502.000	45.91	6.35	52.26	68.20	-15.94	peak

RSE-1G-18G-V



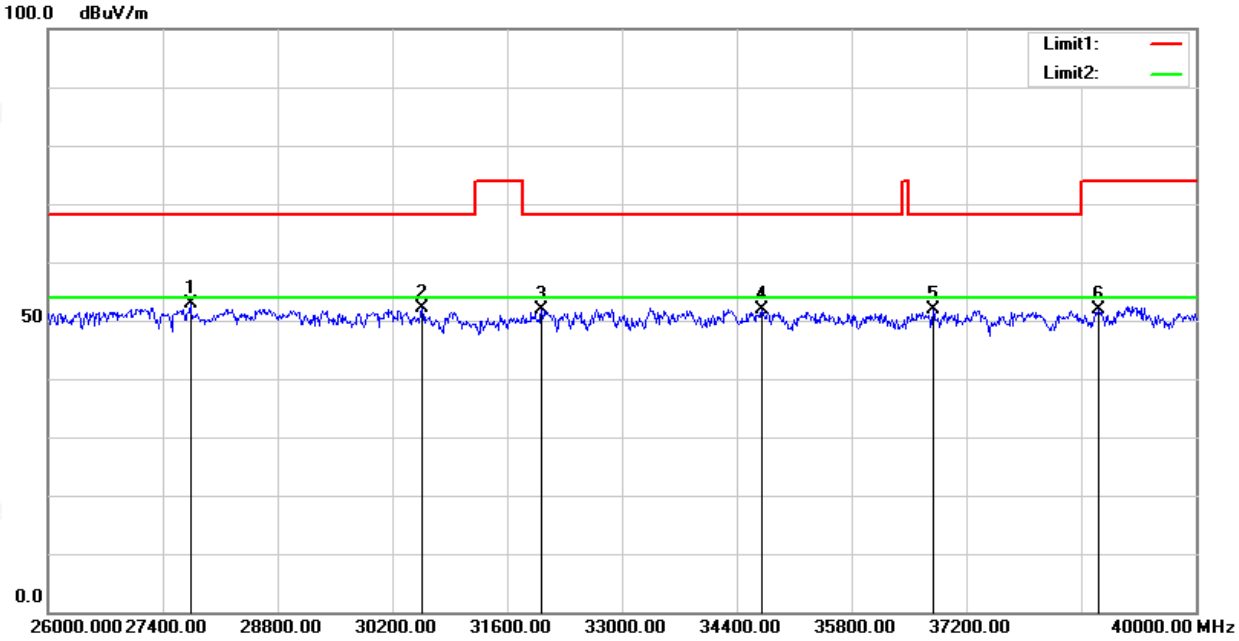
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2176.500	44.19	1.67	68.2	24.01	Peak	139.70	Vertical	Pass
1**	2176.500	33.14	1.67	54.0	20.86	AV	139.70	Vertical	Pass
2	2960.000	47.79	5.26	68.2	20.41	Peak	152.70	Vertical	Pass
2**	2960.000	36.63	5.26	54.0	17.37	AV	152.70	Vertical	Pass
3	9491.500	52.25	1.50	74.0	21.75	Peak	0.00	Vertical	Pass
3**	9491.500	41.82	1.50	54.0	12.18	AV	0.00	Vertical	Pass
4	11281.750	53.51	2.34	74.0	20.49	Peak	248.00	Vertical	Pass
4**	11281.750	42.69	2.34	54.0	11.31	AV	248.00	Vertical	Pass
5	14268.250	56.69	6.91	68.2	11.51	Peak	137.10	Vertical	Pass
5**	14268.250	45.66	6.91	54.0	8.34	AV	137.10	Vertical	Pass
6	17810.250	56.39	6.47	74.0	17.61	Peak	103.20	Vertical	Pass
6**	17810.250	45.54	6.47	54.0	8.46	AV	103.20	Vertical	Pass

RSE-18G-26G-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18512.000	50.63	2.24	52.87	54.00	-1.13	peak
2	19384.000	50.48	1.54	52.02	54.00	-1.98	peak
3	20288.000	50.35	2.05	52.40	54.00	-1.60	peak
4	21128.000	49.55	2.73	52.28	54.00	-1.72	peak
5	22192.000	48.00	3.61	51.61	54.00	-2.39	peak
6	24216.000	48.33	4.67	53.00	68.20	-15.20	peak

RSE-26G-40G-V

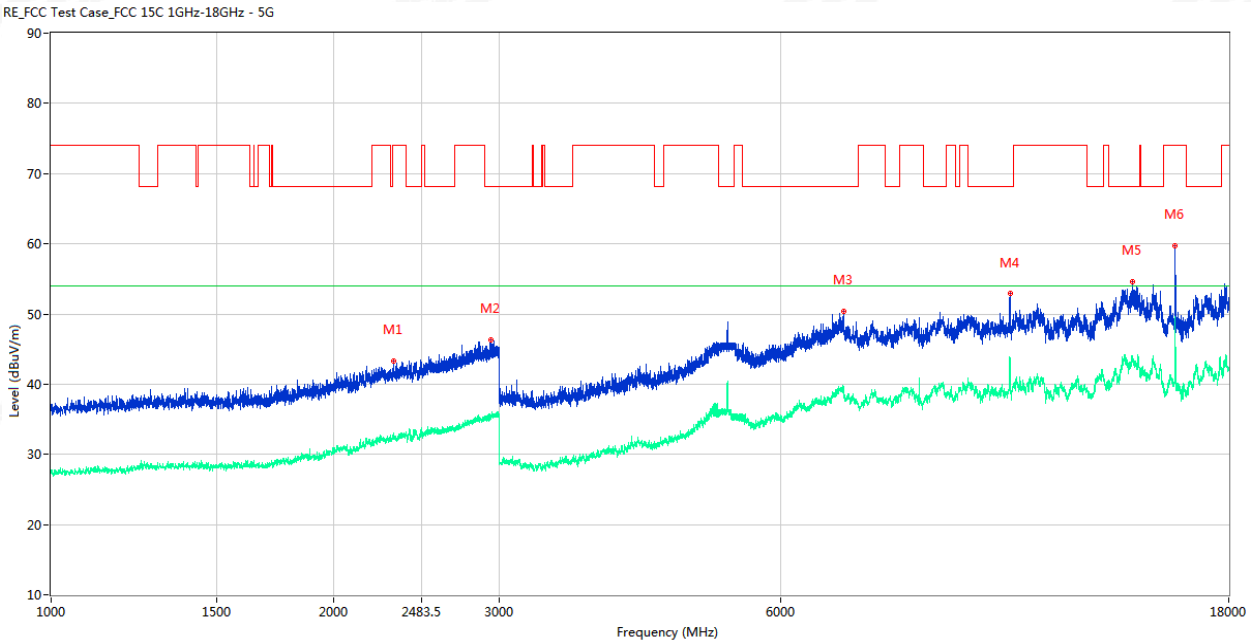


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	27736.000	45.65	7.11	52.76	68.20	-15.44	peak
2	30564.000	43.25	8.90	52.15	68.20	-16.05	peak
3	32020.000	42.52	9.24	51.76	68.20	-16.44	peak
4	34708.000	42.17	9.62	51.79	68.20	-16.41	peak
5	36794.000	43.77	8.08	51.85	68.20	-16.35	peak
6	38810.000	45.14	6.73	51.87	54.00	-2.13	peak

Note:

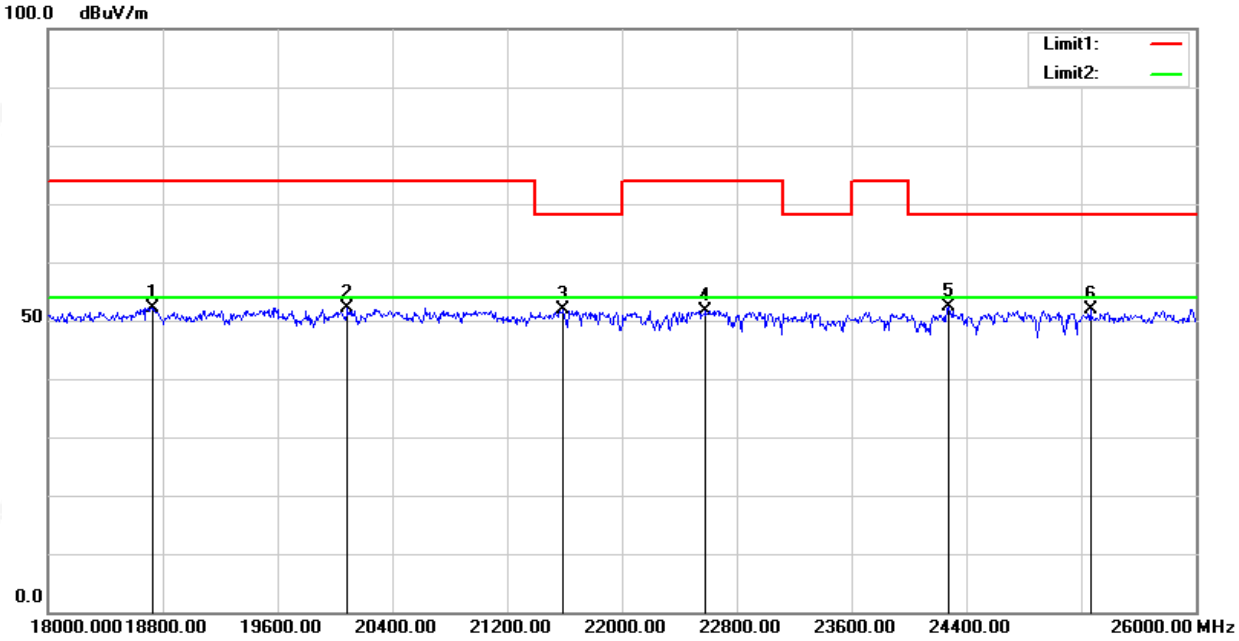
1) Factor = Antenna Factor + Cable Loss – Pre-amplifier.
   Emission Level = Reading + Factor.
2) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

U-NII-2A
Worst mode (802.11n20)
Low
RSE-1G-18G-H



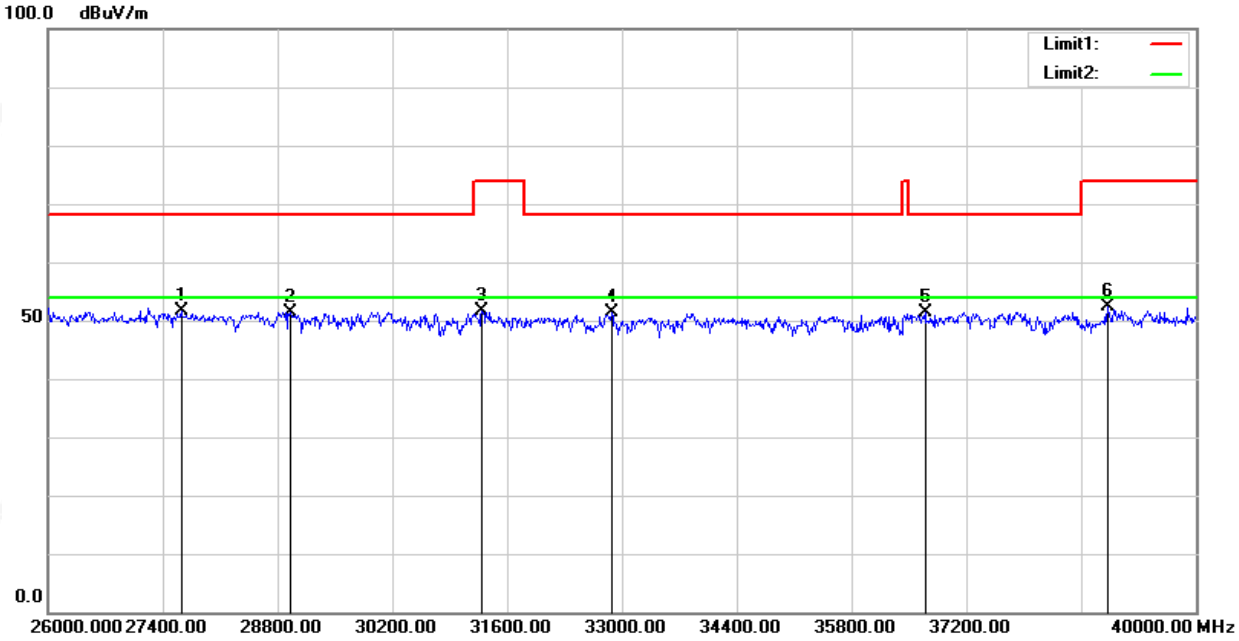
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2318.000	43.30	2.42	74.0	30.70	Peak	335.40	Horizontal	Pass
1**	2318.000	32.45	2.42	54.0	21.55	AV	335.40	Horizontal	Pass
2	2943.500	46.34	5.17	68.2	21.86	Peak	120.40	Horizontal	Pass
2**	2943.500	35.37	5.17	54.0	18.63	AV	120.40	Horizontal	Pass
3	6994.000	50.35	1.27	68.2	17.85	Peak	60.20	Horizontal	Pass
3**	6994.000	39.34	1.27	54.0	14.66	AV	60.20	Horizontal	Pass
4	10522.750	52.99	1.41	68.2	15.21	Peak	348.40	Horizontal	Pass
4**	10522.750	43.82	1.41	54.0	10.18	AV	348.40	Horizontal	Pass
5	14221.500	54.58	6.94	68.2	13.62	Peak	92.80	Horizontal	Pass
5**	14221.500	43.52	6.94	54.0	10.48	AV	92.80	Horizontal	Pass
6	15775.250	59.68	3.14	74.0	14.32	Peak	34.40	Horizontal	Pass
6**	15775.250	48.93	3.14	54.0	5.07	AV	34.40	Horizontal	Pass

RSE-18G-26G-H



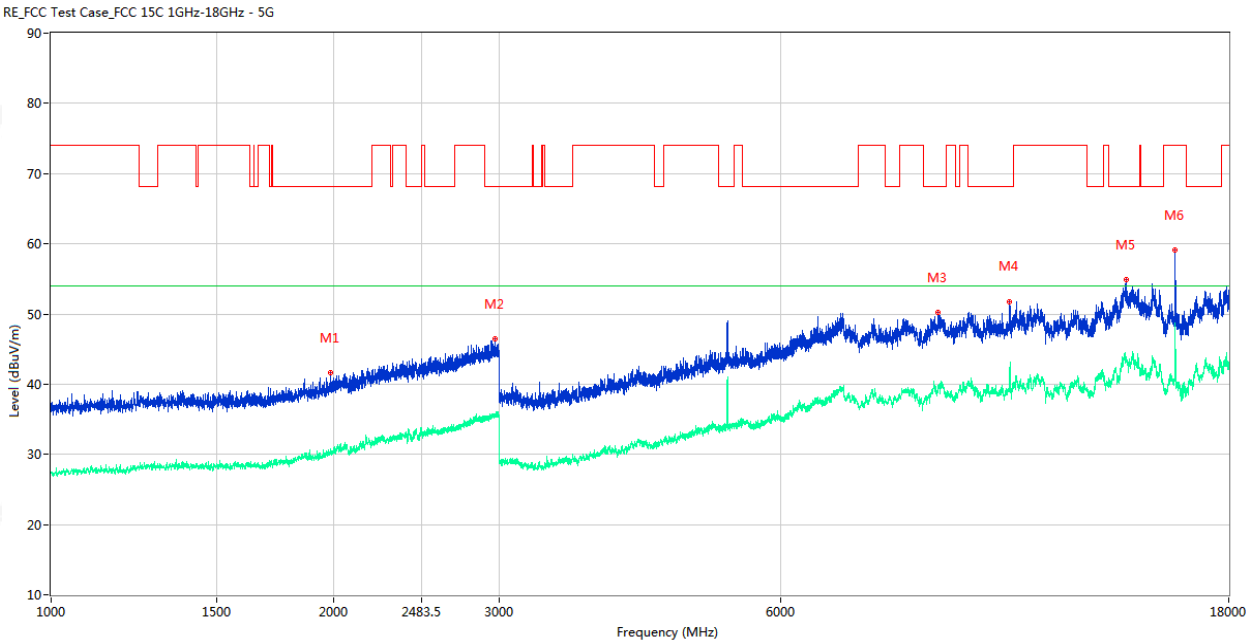
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18728.000	50.12	2.03	52.15	54.00	-1.85	peak
2	20088.000	50.27	1.88	52.15	54.00	-1.85	peak
3	21592.000	48.89	3.03	51.92	68.20	-16.28	peak
4	22584.000	47.87	3.87	51.74	54.00	-2.26	peak
5	24272.000	47.58	4.68	52.26	68.20	-15.94	peak
6	25264.000	46.31	5.48	51.79	68.20	-16.41	peak

RSE-26G-40G-H



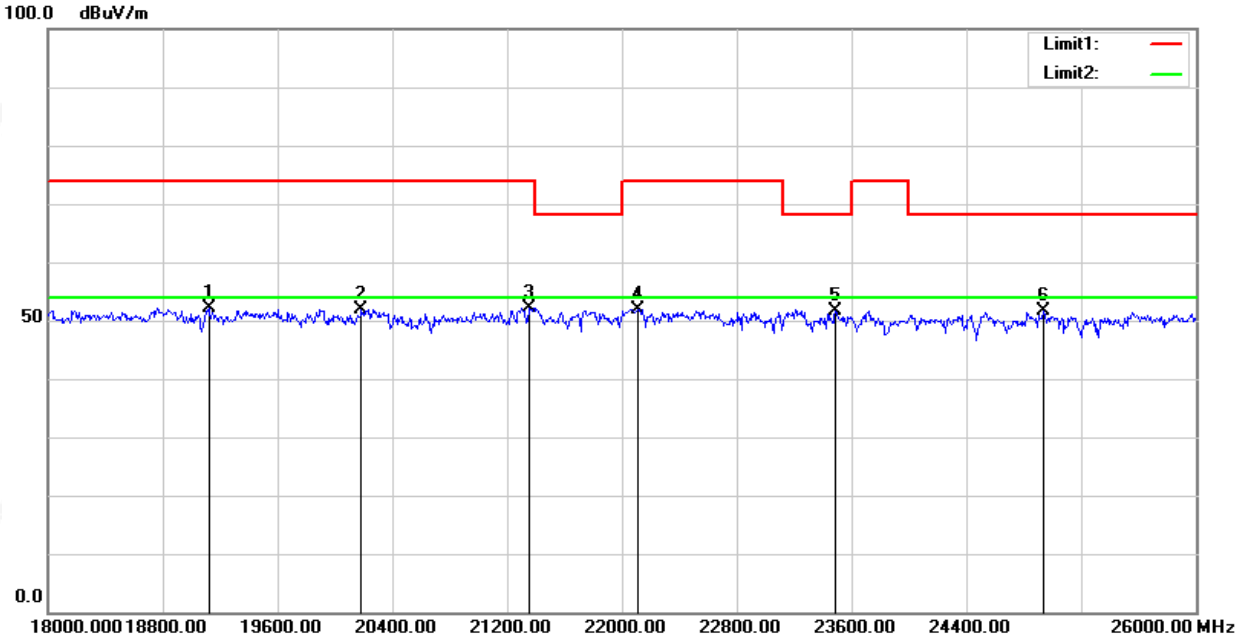
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	27624.000	44.67	7.00	51.67	68.20	-16.53	peak
2	28954.000	42.59	8.91	51.50	68.20	-16.70	peak
3	31292.000	42.45	9.10	51.55	54.00	-2.45	peak
4	32874.000	42.21	9.06	51.27	68.20	-16.93	peak
5	36696.000	43.12	8.21	51.33	68.20	-16.87	peak
6	38922.000	45.45	6.87	52.32	54.00	-1.68	peak

RSE-1G-18G-V



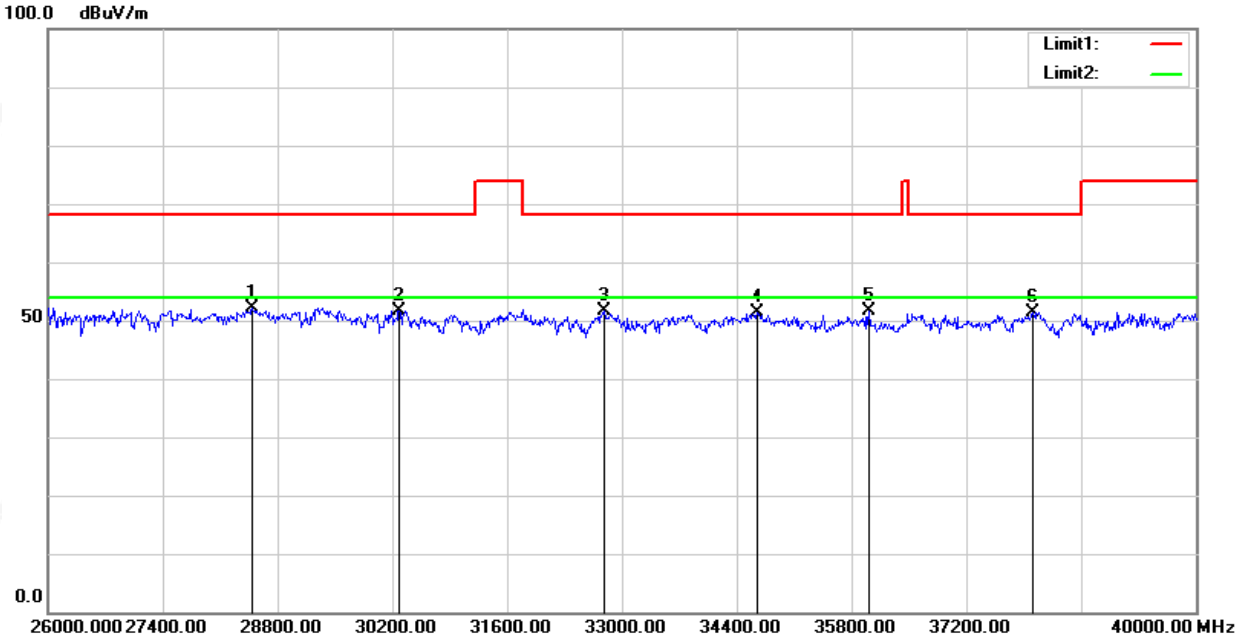
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1985.000	41.57	0.27	68.2	26.63	Peak	82.00	Vertical	Pass
1**	1985.000	30.86	0.27	54.0	23.14	AV	82.00	Vertical	Pass
2	2969.500	46.50	5.31	68.2	21.70	Peak	8.40	Vertical	Pass
2**	2969.500	35.51	5.31	54.0	18.49	AV	8.40	Vertical	Pass
3	8826.000	50.15	0.52	68.2	18.05	Peak	92.90	Vertical	Pass
3**	8826.000	39.78	0.52	54.0	14.22	AV	92.90	Vertical	Pass
4	10514.500	51.80	1.37	68.2	16.40	Peak	17.50	Vertical	Pass
4**	10514.500	41.52	1.37	54.0	12.48	AV	17.50	Vertical	Pass
5	14004.250	54.83	8.38	68.2	13.37	Peak	57.50	Vertical	Pass
5**	14004.250	43.33	8.38	54.0	10.67	AV	57.50	Vertical	Pass
6	15775.250	59.09	3.14	74.0	14.91	Peak	356.50	Vertical	Pass
6**	15775.250	48.37	3.14	54.0	5.63	AV	356.50	Vertical	Pass

RSE-18G-26G-V



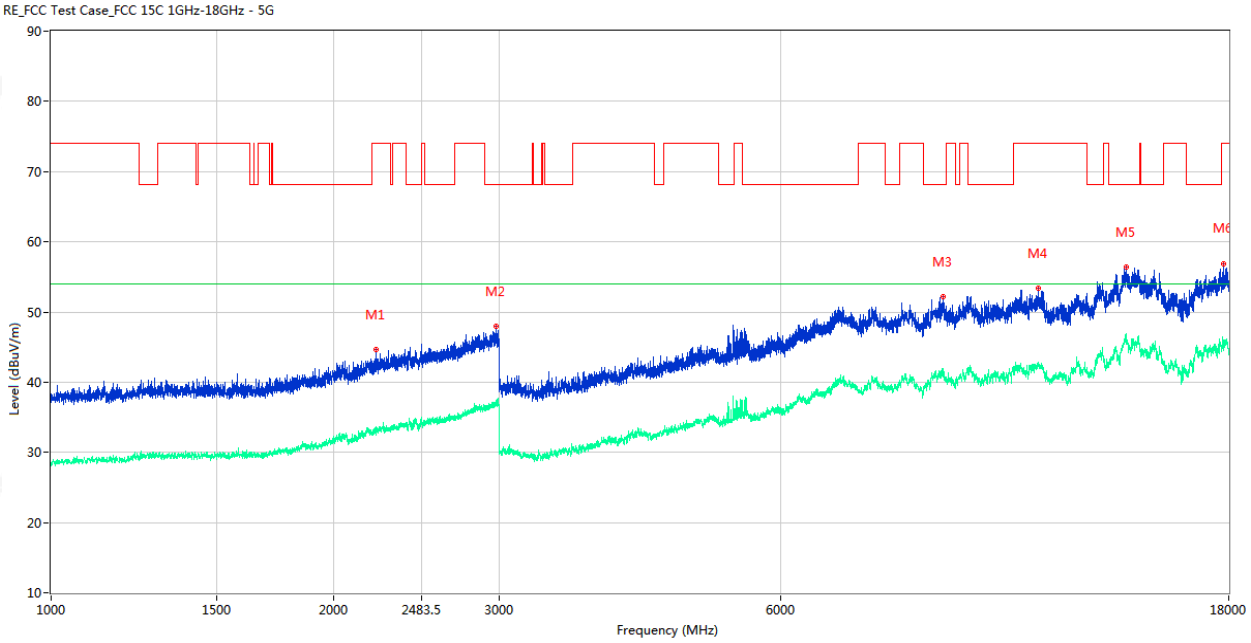
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	19120.000	50.45	1.68	52.13	54.00	-1.87	peak
2	20184.000	49.95	1.96	51.91	54.00	-2.09	peak
3	21352.000	49.33	2.85	52.18	54.00	-1.82	peak
4	22112.000	48.40	3.52	51.92	54.00	-2.08	peak
5	23488.000	47.57	4.12	51.69	68.20	-16.51	peak
6	24936.000	46.41	5.23	51.64	68.20	-16.56	peak

RSE-26G-40G-V



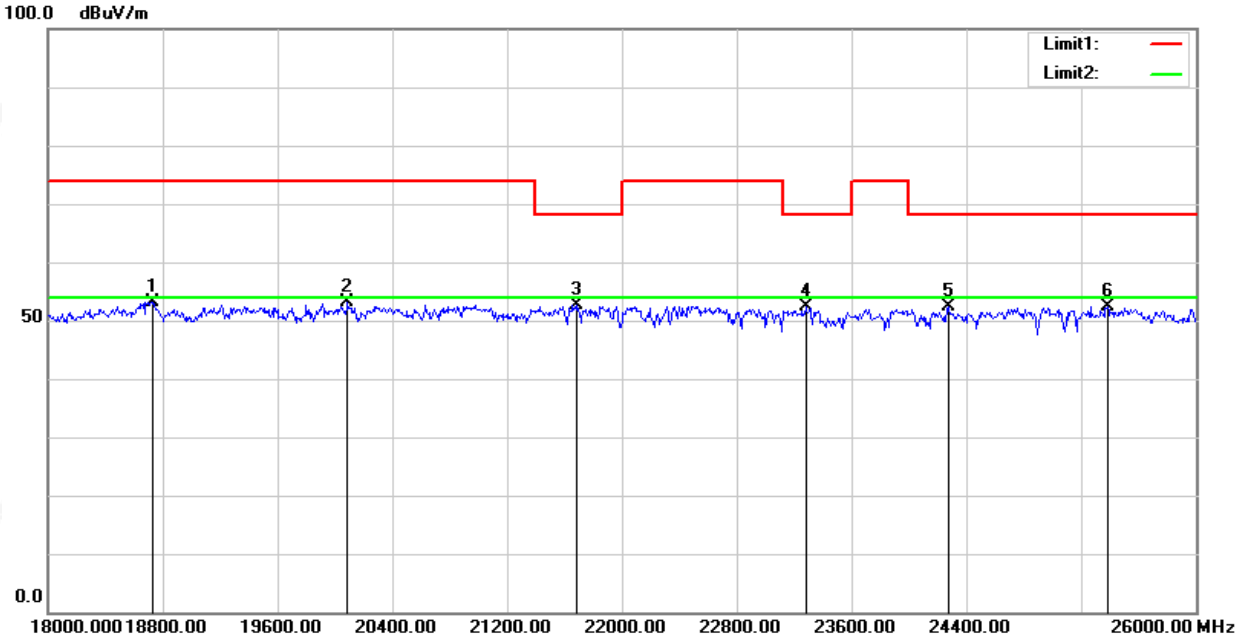
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	28492.000	44.07	8.17	52.24	68.20	-15.96	peak
2	30284.000	42.65	8.96	51.61	68.20	-16.59	peak
3	32790.000	42.52	9.08	51.60	68.20	-16.60	peak
4	34652.000	41.81	9.61	51.42	68.20	-16.78	peak
5	36010.000	42.41	9.31	51.72	68.20	-16.48	peak
6	38012.000	44.77	6.68	51.45	68.20	-16.75	peak

Middle
RSE-1G-18G-H



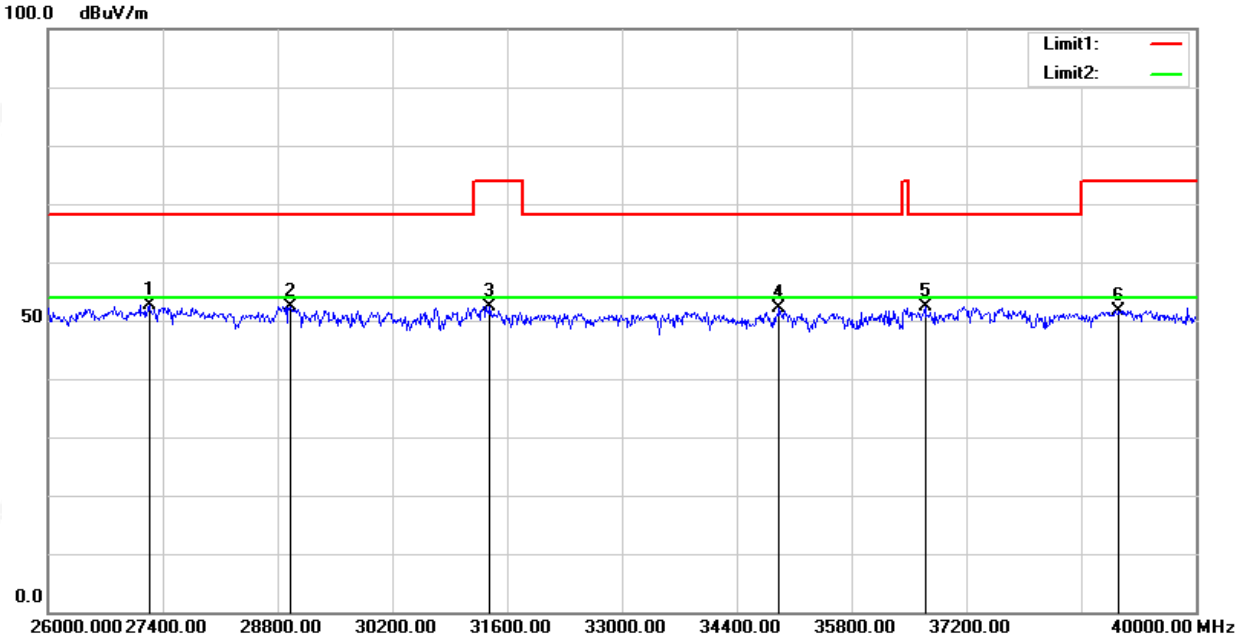
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2222.000	44.63	1.78	74.0	29.37	Peak	285.90	Horizontal	Pass
1**	2222.000	33.05	1.78	54.0	20.95	AV	285.90	Horizontal	Pass
2	2978.500	48.01	5.35	68.2	20.19	Peak	50.20	Horizontal	Pass
2**	2978.500	36.89	5.35	54.0	17.11	AV	50.20	Horizontal	Pass
3	8927.750	52.14	1.15	68.2	16.06	Peak	73.30	Horizontal	Pass
3**	8927.750	41.74	1.15	54.0	12.26	AV	73.30	Horizontal	Pass
4	11290.000	53.43	2.31	74.0	20.57	Peak	227.90	Horizontal	Pass
4**	11290.000	42.53	2.31	54.0	11.47	AV	227.90	Horizontal	Pass
5	13985.000	56.43	8.26	68.2	11.77	Peak	342.10	Horizontal	Pass
5**	13985.000	46.18	8.26	54.0	7.82	AV	342.10	Horizontal	Pass
6	17774.500	56.92	6.27	74.0	17.08	Peak	5.00	Horizontal	Pass
6**	17774.500	45.59	6.27	54.0	8.41	AV	5.00	Horizontal	Pass

RSE-18G-26G-H



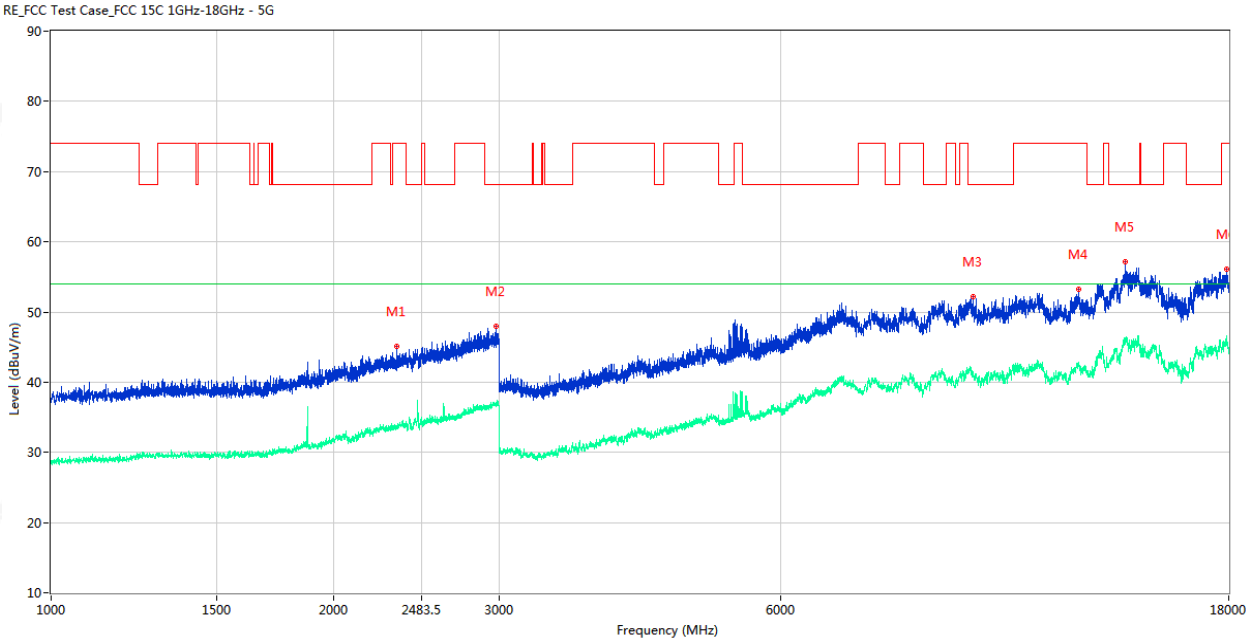
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18728.000	51.12	2.03	53.15	54.00	-0.85	peak
2	20088.000	51.27	1.88	53.15	54.00	-0.85	peak
3	21688.000	49.61	3.12	52.73	68.20	-15.47	peak
4	23280.000	48.51	3.92	52.43	68.20	-15.77	peak
5	24272.000	47.58	4.68	52.26	68.20	-15.94	peak
6	25384.000	46.90	5.57	52.47	68.20	-15.73	peak

RSE-26G-40G-H



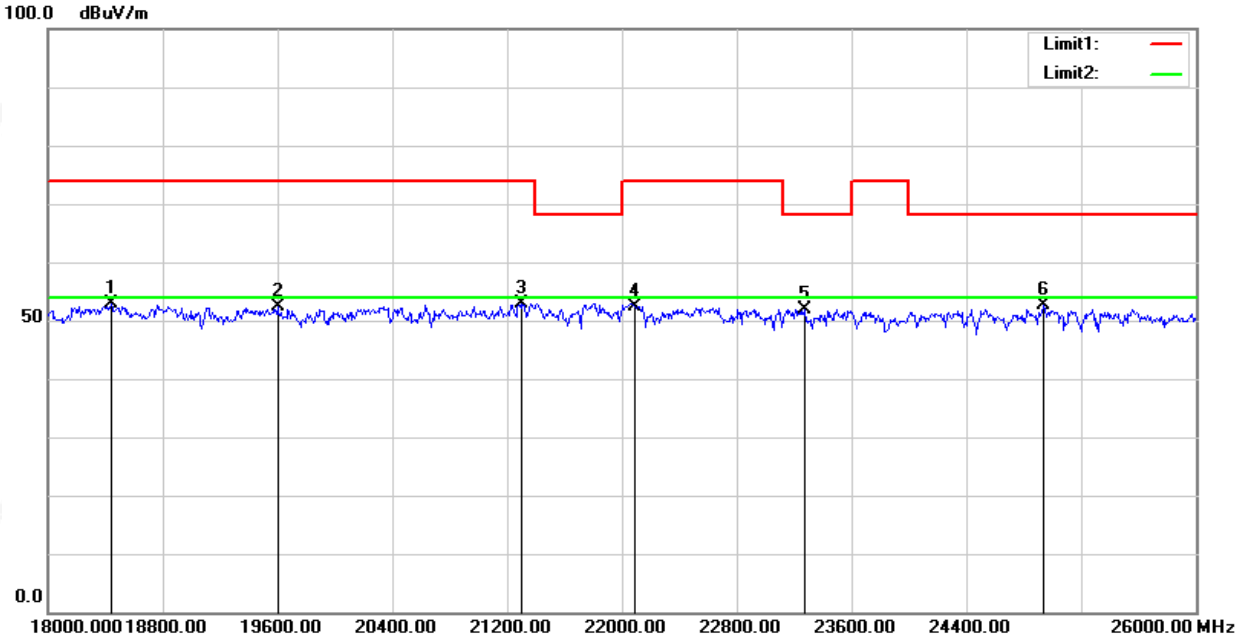
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	27232.000	45.91	6.73	52.64	68.20	-15.56	peak
2	28954.000	43.59	8.91	52.50	68.20	-15.70	peak
3	31390.000	43.17	9.13	52.30	54.00	-1.70	peak
4	34918.000	42.55	9.69	52.24	68.20	-15.96	peak
5	36696.000	44.12	8.21	52.33	68.20	-15.87	peak
6	39062.000	44.61	7.09	51.70	54.00	-2.30	peak

RSE-1G-18G-V



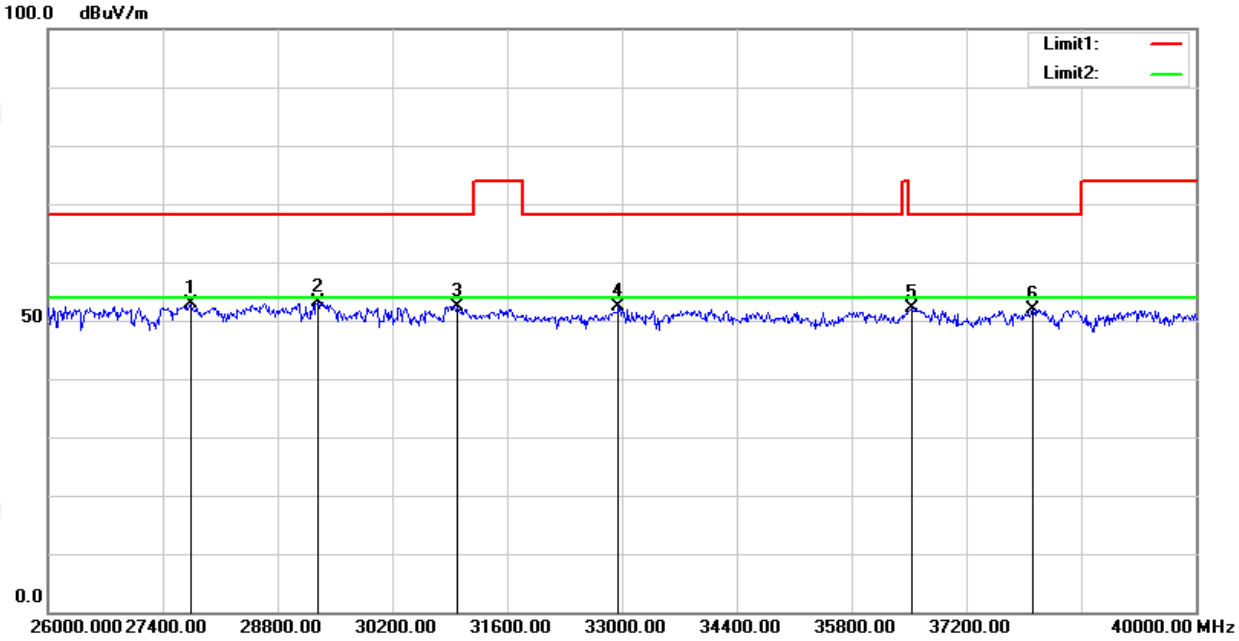
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2335.500	45.12	2.61	74.0	28.88	Peak	297.80	Vertical	Pass
1**	2335.500	33.62	2.61	54.0	20.38	AV	297.80	Vertical	Pass
2	2984.000	48.00	5.38	68.2	20.20	Peak	277.00	Vertical	Pass
2**	2984.000	36.82	5.38	54.0	17.18	AV	277.00	Vertical	Pass
3	9601.500	52.18	0.57	68.2	16.02	Peak	139.20	Vertical	Pass
3**	9601.500	41.28	0.57	54.0	12.72	AV	139.20	Vertical	Pass
4	12445.000	53.26	2.73	74.0	20.74	Peak	269.00	Vertical	Pass
4**	12445.000	42.44	2.73	54.0	11.56	AV	269.00	Vertical	Pass
5	13979.500	57.11	8.19	68.2	11.09	Peak	137.00	Vertical	Pass
5**	13979.500	46.25	8.19	54.0	7.75	AV	137.00	Vertical	Pass
6	17909.250	56.12	7.17	74.0	17.88	Peak	114.00	Vertical	Pass
6**	17909.250	45.84	7.17	54.0	8.16	AV	114.00	Vertical	Pass

RSE-18G-26G-V



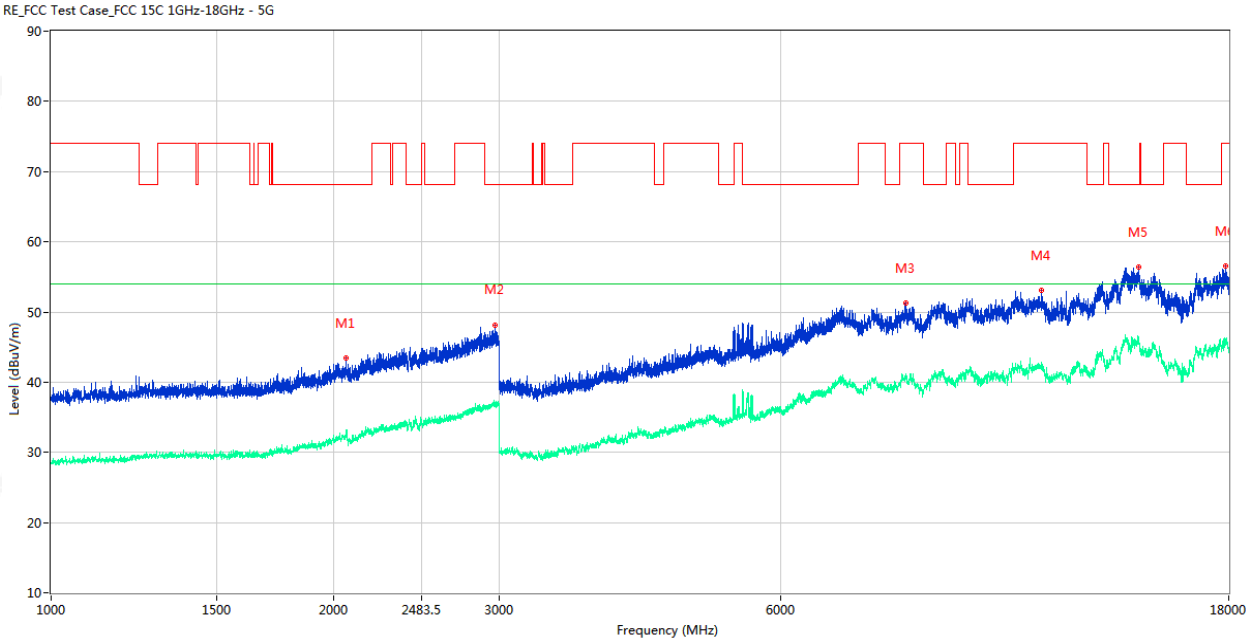
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18440.000	50.46	2.30	52.76	54.00	-1.24	peak
2	19600.000	50.80	1.54	52.34	54.00	-1.66	peak
3	21296.000	50.16	2.83	52.99	54.00	-1.01	peak
4	22088.000	48.97	3.51	52.48	54.00	-1.52	peak
5	23272.000	47.90	3.91	51.81	68.20	-16.39	peak
6	24936.000	47.41	5.23	52.64	68.20	-15.56	peak

RSE-26G-40G-V



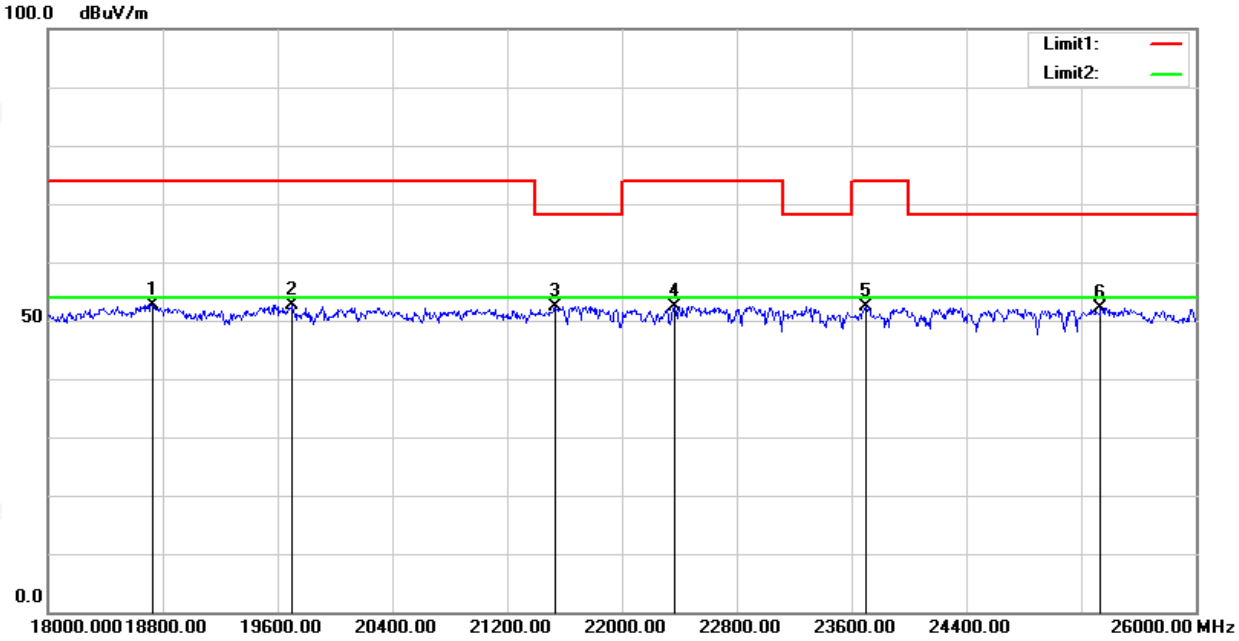
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	27736.000	45.65	7.11	52.76	68.20	-15.44	peak
2	29290.000	44.03	9.07	53.10	68.20	-15.10	peak
3	30998.000	43.56	8.94	52.50	68.20	-15.70	peak
4	32958.000	43.40	9.03	52.43	68.20	-15.77	peak
5	36528.000	43.74	8.43	52.17	68.20	-16.03	peak
6	38012.000	45.27	6.68	51.95	68.20	-16.25	peak

High
RSE-1G-18G-H



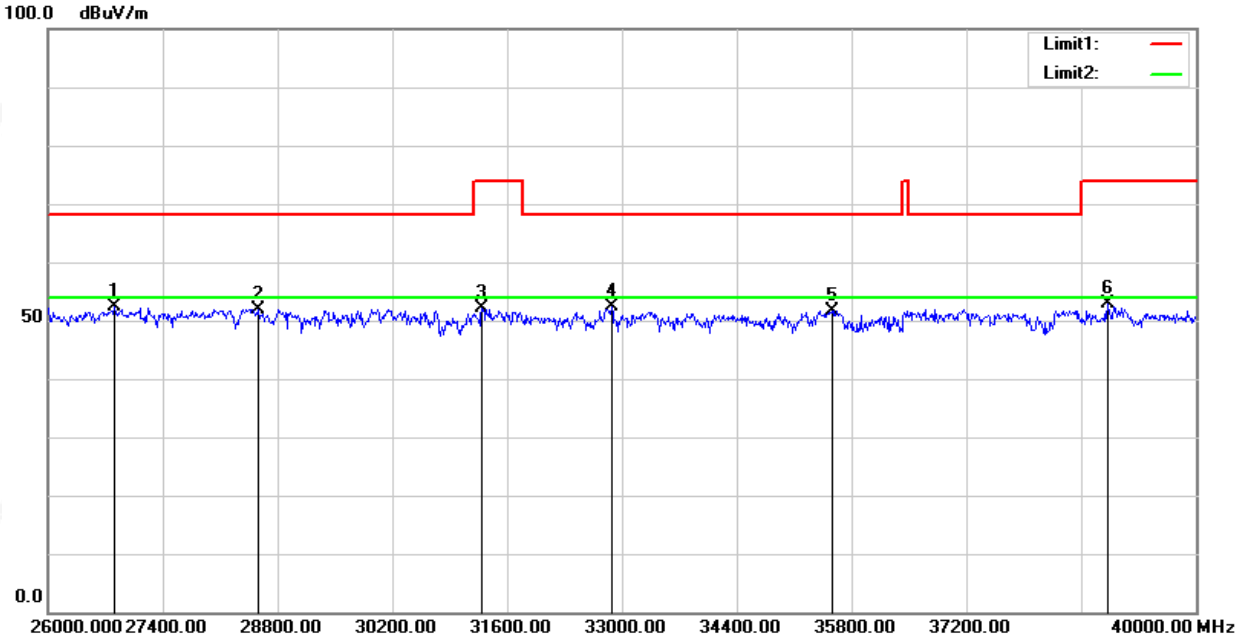
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2062.500	43.38	0.83	68.2	24.82	Peak	296.00	Horizontal	Pass
1**	2062.500	32.28	0.83	54.0	21.72	AV	296.00	Horizontal	Pass
2	2976.000	48.18	5.34	68.2	20.02	Peak	38.50	Horizontal	Pass
2**	2976.000	36.64	5.34	54.0	17.36	AV	38.50	Horizontal	Pass
3	8157.750	51.32	-0.37	74.0	22.68	Peak	19.20	Horizontal	Pass
3**	8157.750	40.55	-0.37	54.0	13.45	AV	19.20	Horizontal	Pass
4	11369.750	53.05	2.05	74.0	20.95	Peak	48.60	Horizontal	Pass
4**	11369.750	42.50	2.05	54.0	11.50	AV	48.60	Horizontal	Pass
5	14422.250	56.40	6.83	68.2	11.80	Peak	360.00	Horizontal	Pass
5**	14422.250	46.36	6.83	54.0	7.64	AV	360.00	Horizontal	Pass
6	17848.750	56.57	6.80	74.0	17.43	Peak	33.30	Horizontal	Pass
6**	17848.750	45.22	6.80	54.0	8.78	AV	33.30	Horizontal	Pass

RSE-18G-26G-H



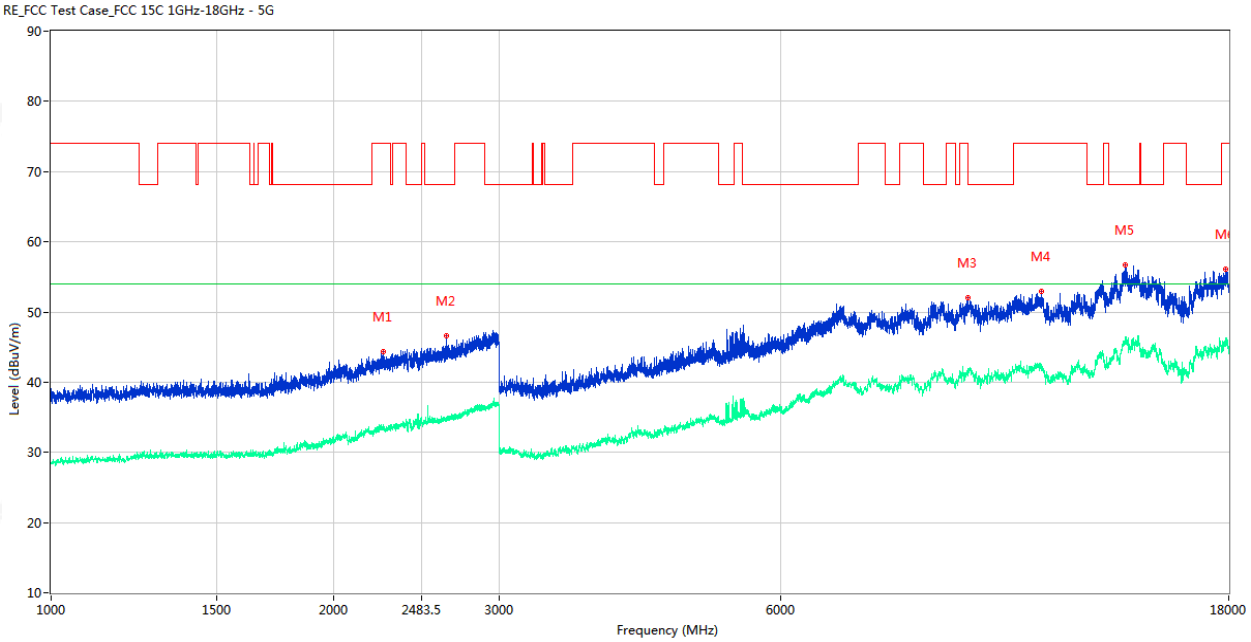
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18728.000	50.62	2.03	52.65	54.00	-1.35	peak
2	19704.000	50.93	1.60	52.53	54.00	-1.47	peak
3	21536.000	49.53	2.96	52.49	68.20	-15.71	peak
4	22368.000	48.62	3.78	52.40	54.00	-1.60	peak
5	23696.000	48.07	4.33	52.40	54.00	-1.60	peak
6	25336.000	46.62	5.54	52.16	68.20	-16.04	peak

RSE-26G-40G-H



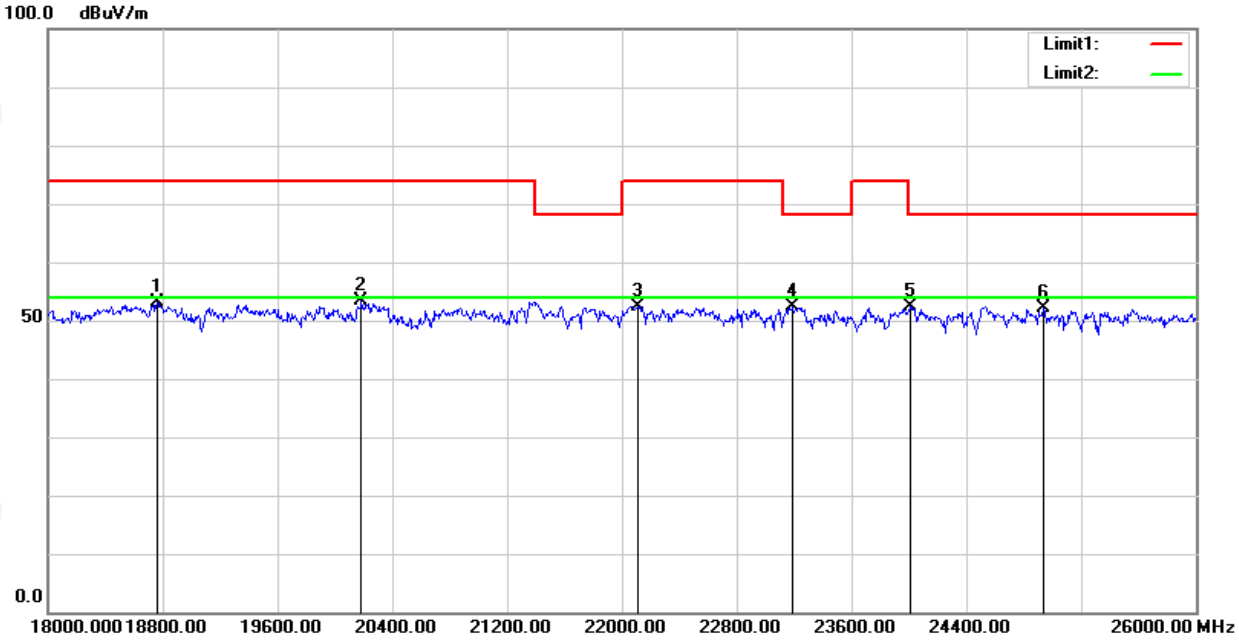
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	26812.000	45.89	6.40	52.29	68.20	-15.91	peak
2	28562.000	43.71	8.28	51.99	68.20	-16.21	peak
3	31292.000	42.95	9.10	52.05	54.00	-1.95	peak
4	32874.000	43.21	9.06	52.27	68.20	-15.93	peak
5	35562.000	41.89	9.71	51.60	68.20	-16.60	peak
6	38922.000	45.95	6.87	52.82	54.00	-1.18	peak

RSE-1G-18G-V



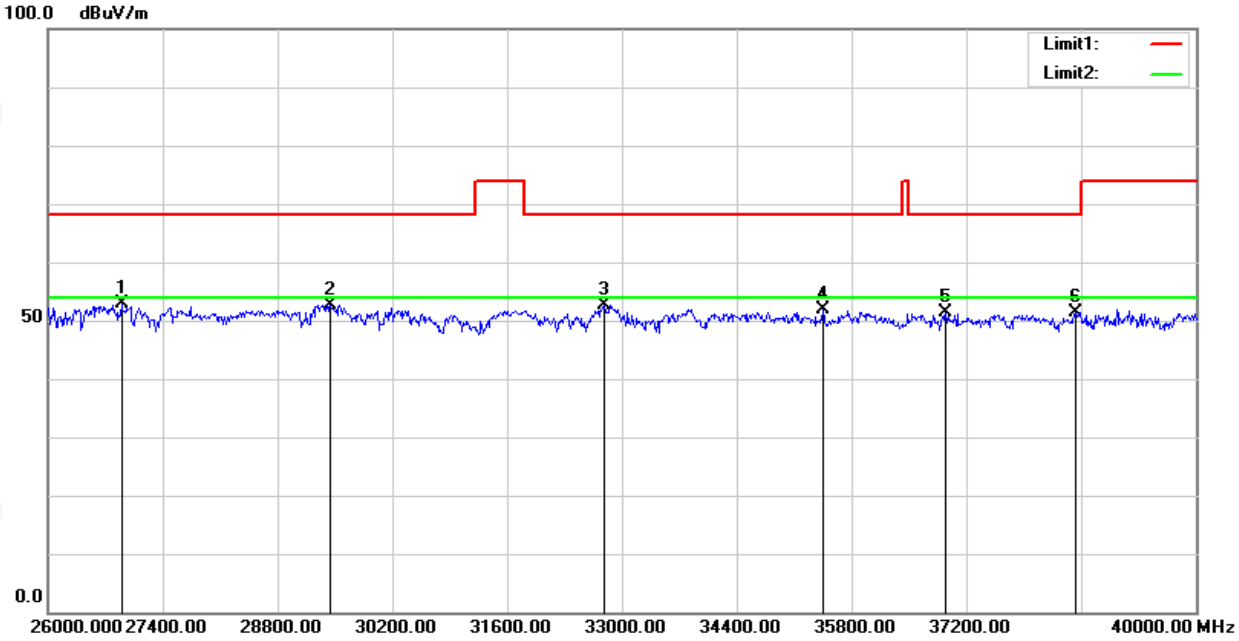
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2259.500	44.39	2.17	74.0	29.61	Peak	34.00	Vertical	Pass
1**	2259.500	33.19	2.17	54.0	20.81	AV	34.00	Vertical	Pass
2	2635.500	46.57	3.82	68.2	21.63	Peak	38.10	Vertical	Pass
2**	2635.500	34.44	3.82	54.0	19.56	AV	38.10	Vertical	Pass
3	9494.250	52.00	1.51	74.0	22.00	Peak	72.80	Vertical	Pass
3**	9494.250	41.95	1.51	54.0	12.05	AV	72.80	Vertical	Pass
4	11364.250	52.88	2.07	74.0	21.12	Peak	324.30	Vertical	Pass
4**	11364.250	41.88	2.07	54.0	12.12	AV	324.30	Vertical	Pass
5	13949.250	56.65	7.82	68.2	11.55	Peak	133.80	Vertical	Pass
5**	13949.250	45.92	7.82	54.0	8.08	AV	133.80	Vertical	Pass
6	17854.251	56.03	6.85	74.0	17.97	Peak	24.80	Vertical	Pass
6**	17854.251	45.23	6.85	54.0	8.77	AV	24.80	Vertical	Pass

RSE-18G-26G-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18760.000	51.09	1.99	53.08	54.00	-0.92	peak
2	20184.000	51.45	1.96	53.41	54.00	-0.59	peak
3	22112.000	48.90	3.52	52.42	54.00	-1.58	peak
4	23192.000	48.48	3.82	52.30	68.20	-15.90	peak
5	24008.000	47.83	4.63	52.46	68.20	-15.74	peak
6	24936.000	46.91	5.23	52.14	68.20	-16.06	peak

RSE-26G-40G-V

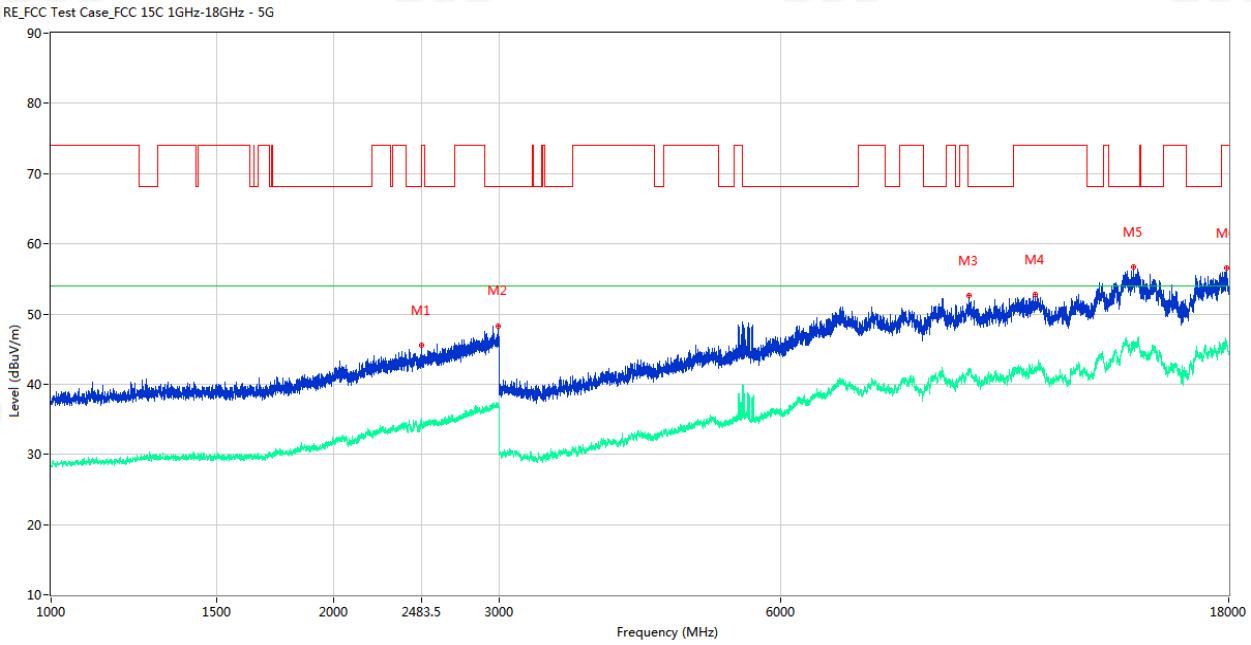


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	26896.000	46.28	6.50	52.78	68.20	-15.42	peak
2	29444.000	43.50	9.10	52.60	68.20	-15.60	peak
3	32790.000	43.52	9.08	52.60	68.20	-15.60	peak
4	35450.000	42.04	9.76	51.80	68.20	-16.40	peak
5	36948.000	43.38	7.88	51.26	68.20	-16.94	peak
6	38530.000	45.04	6.37	51.41	68.20	-16.79	peak

Note:

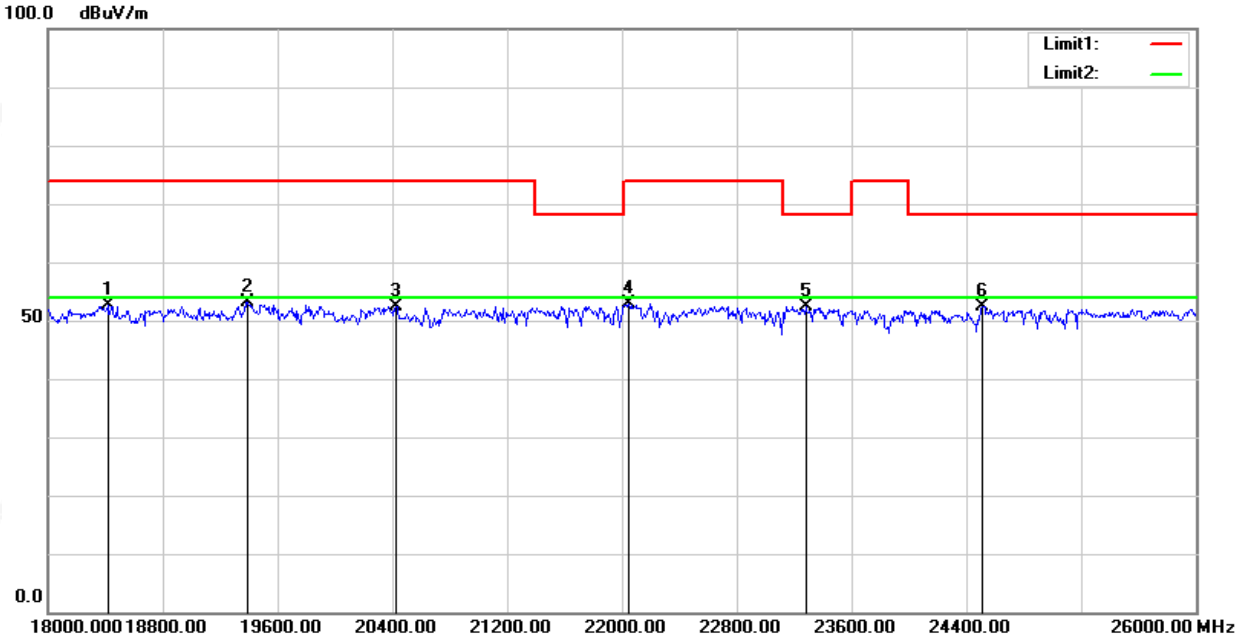
1) Factor = Antenna Factor + Cable Loss – Pre-amplifier.
   Emission Level = Reading + Factor.
2) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

U-NII-2C
Worst mode (802.11n20)
Low
RSE-1G-18G-H



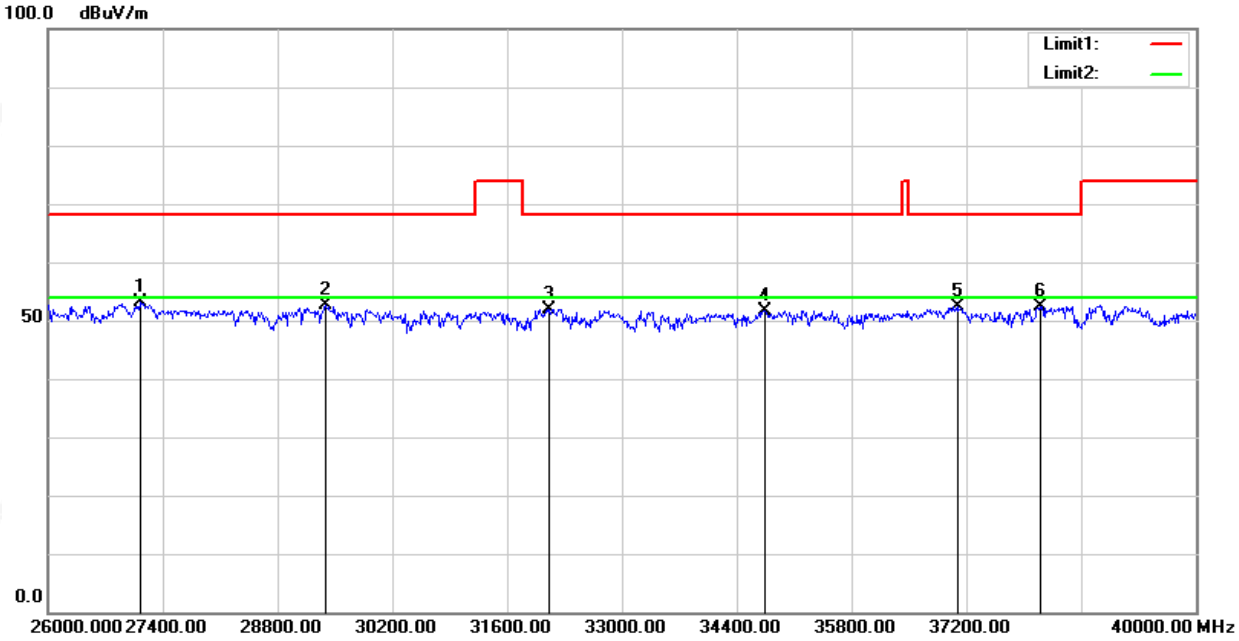
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2481.500	45.56	3.18	68.2	22.64	Peak	336.70	Horizontal	Pass
1**	2481.500	34.67	3.18	54.0	19.33	AV	336.70	Horizontal	Pass
2	2994.500	48.34	5.43	68.2	19.86	Peak	37.90	Horizontal	Pass
2**	2994.500	36.94	5.43	54.0	17.06	AV	37.90	Horizontal	Pass
3	9510.750	52.57	1.44	68.2	15.63	Peak	257.50	Horizontal	Pass
3**	9510.750	41.40	1.44	54.0	12.60	AV	257.50	Horizontal	Pass
4	11199.250	52.83	2.62	74.0	21.17	Peak	309.90	Horizontal	Pass
4**	11199.250	41.90	2.62	54.0	12.10	AV	309.90	Horizontal	Pass
5	14262.750	56.71	6.91	68.2	11.49	Peak	284.30	Horizontal	Pass
5**	14262.750	45.68	6.91	54.0	8.32	AV	284.30	Horizontal	Pass
6	17912.001	56.53	7.15	74.0	17.47	Peak	229.60	Horizontal	Pass
6**	17912.001	46.04	7.15	54.0	7.96	AV	229.60	Horizontal	Pass

RSE-18G-26G-H



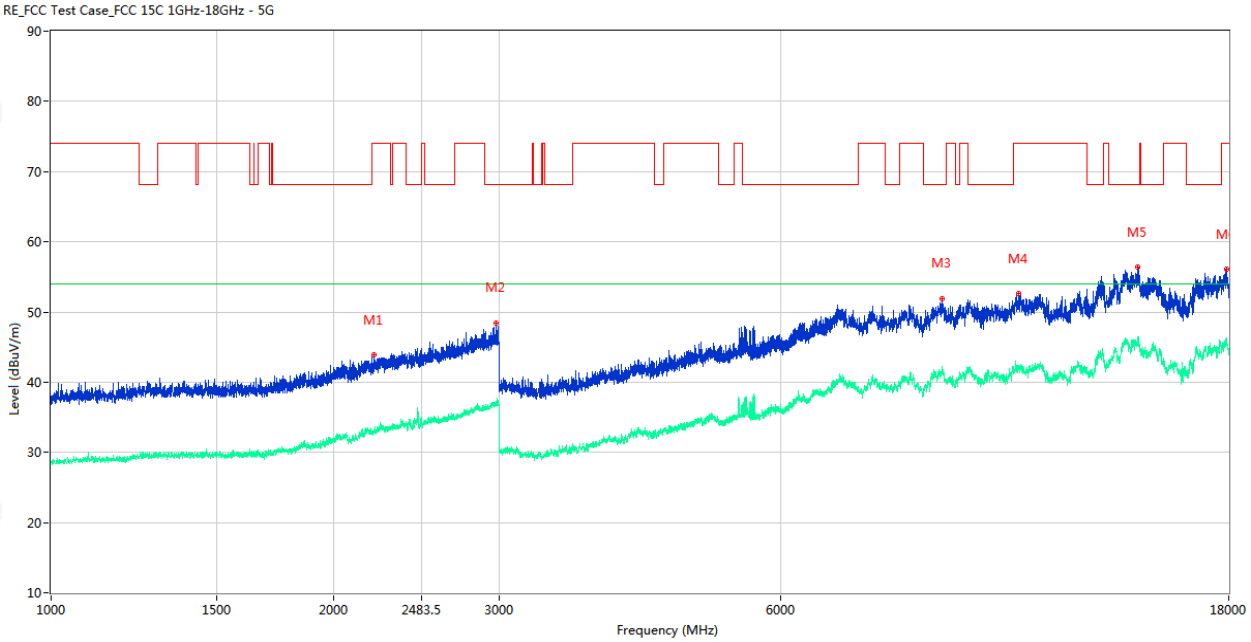
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18416.000	50.37	2.32	52.69	54.00	-1.31	peak
2	19392.000	51.60	1.54	53.14	54.00	-0.86	peak
3	20424.000	50.31	2.16	52.47	54.00	-1.53	peak
4	22048.000	49.52	3.46	52.98	54.00	-1.02	peak
5	23280.000	48.51	3.92	52.43	68.20	-15.77	peak
6	24512.000	47.72	4.72	52.44	68.20	-15.76	peak

RSE-26G-40G-H



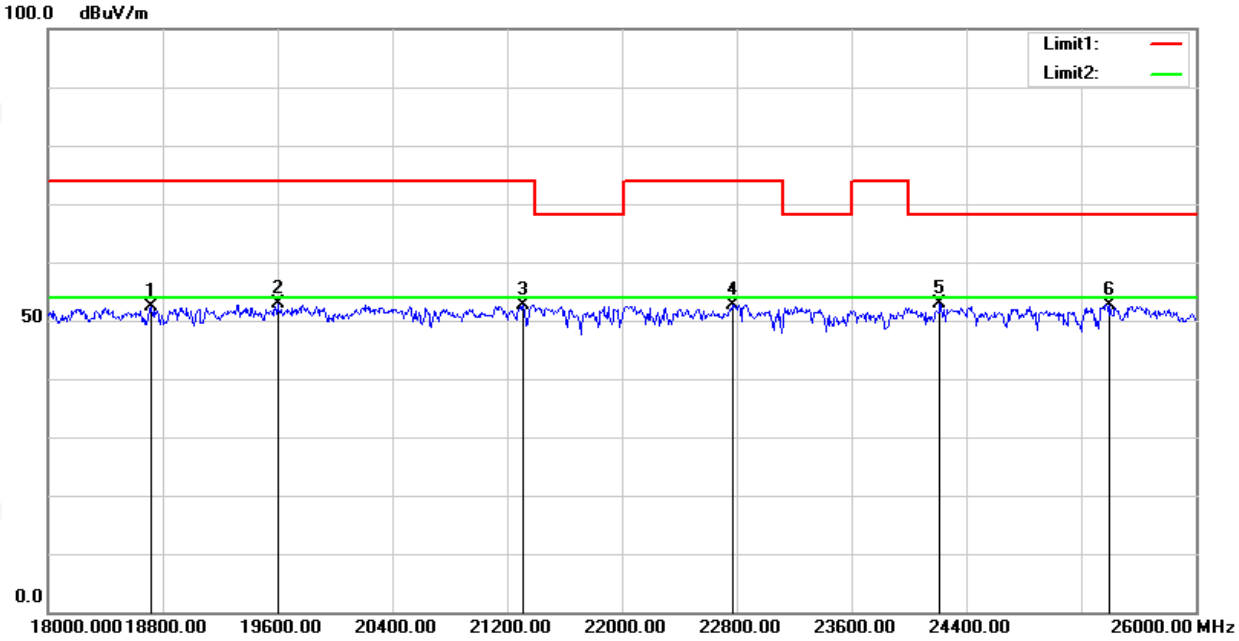
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	27120.000	46.40	6.69	53.09	68.20	-15.11	peak
2	29388.000	43.44	9.08	52.52	68.20	-15.68	peak
3	32118.000	42.76	9.23	51.99	68.20	-16.21	peak
4	34750.000	42.09	9.64	51.73	68.20	-16.47	peak
5	37102.000	44.64	7.69	52.33	68.20	-15.87	peak
6	38096.000	45.81	6.62	52.43	68.20	-15.77	peak

RSE-1G-18G-V



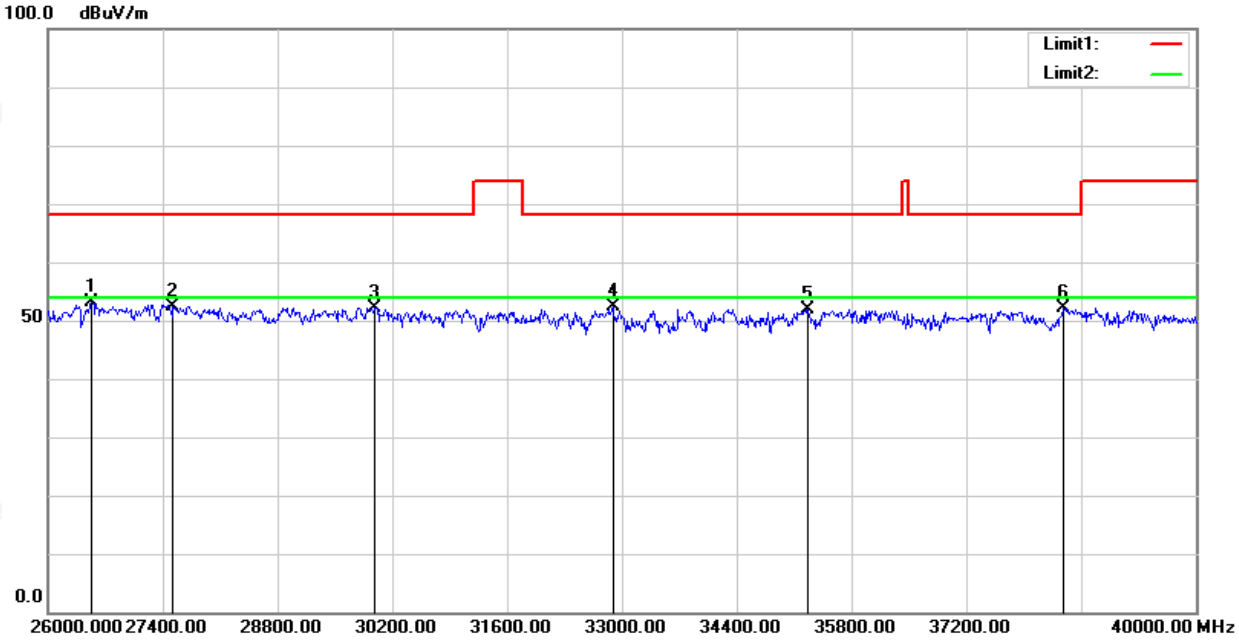
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2211.500	43.91	1.64	74.0	30.09	Peak	0.00	Vertical	Pass
1**	2211.500	33.12	1.64	54.0	20.88	AV	0.00	Vertical	Pass
2	2983.500	48.49	5.38	68.2	19.71	Peak	41.50	Vertical	Pass
2**	2983.500	37.24	5.38	54.0	16.76	AV	41.50	Vertical	Pass
3	8914.000	51.94	1.40	68.2	16.26	Peak	161.70	Vertical	Pass
3**	8914.000	41.81	1.40	54.0	12.19	AV	161.70	Vertical	Pass
4	10740.000	52.68	1.51	74.0	21.32	Peak	0.30	Vertical	Pass
4**	10740.000	42.19	1.51	54.0	11.81	AV	0.30	Vertical	Pass
5	14408.500	56.36	6.93	68.2	11.84	Peak	108.20	Vertical	Pass
5**	14408.500	46.39	6.93	54.0	7.61	AV	108.20	Vertical	Pass
6	17898.250	56.13	7.22	74.0	17.87	Peak	27.50	Vertical	Pass
6**	17898.250	45.84	7.22	54.0	8.16	AV	27.50	Vertical	Pass

RSE-18G-26G-V



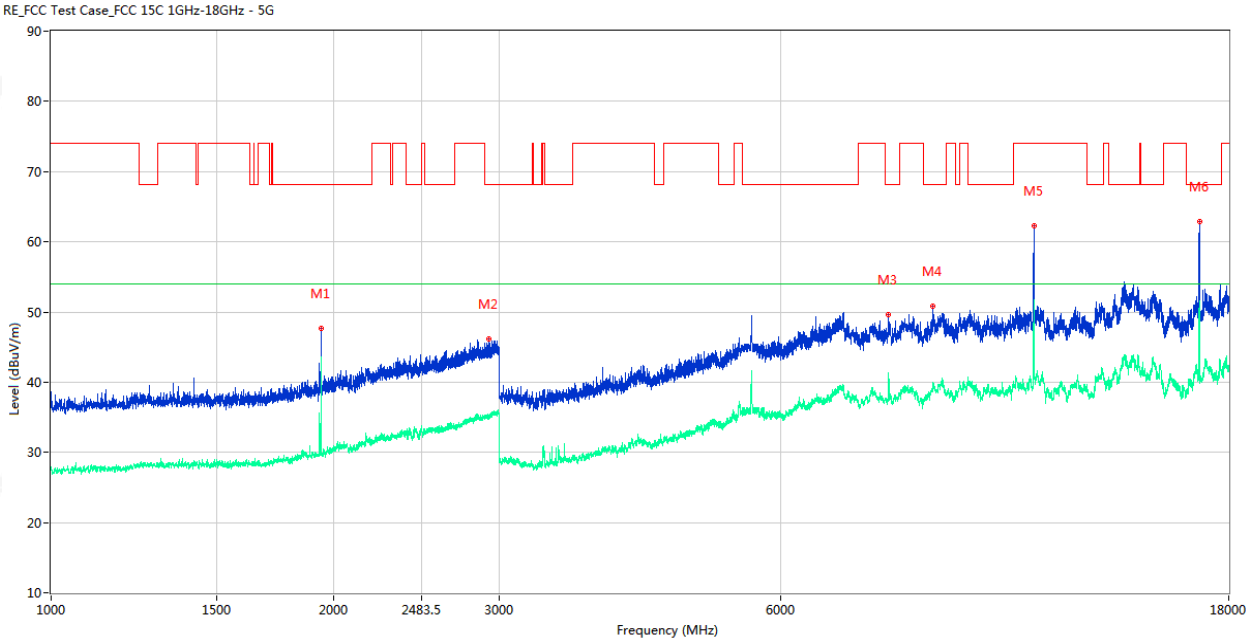
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18720.000	50.26	2.04	52.30	54.00	-1.70	peak
2	19600.000	51.30	1.54	52.84	54.00	-1.16	peak
3	21312.000	49.91	2.82	52.73	54.00	-1.27	peak
4	22768.000	48.98	3.76	52.74	54.00	-1.26	peak
5	24216.000	48.33	4.67	53.00	68.20	-15.20	peak
6	25400.000	47.14	5.59	52.73	68.20	-15.47	peak

RSE-26G-40G-V



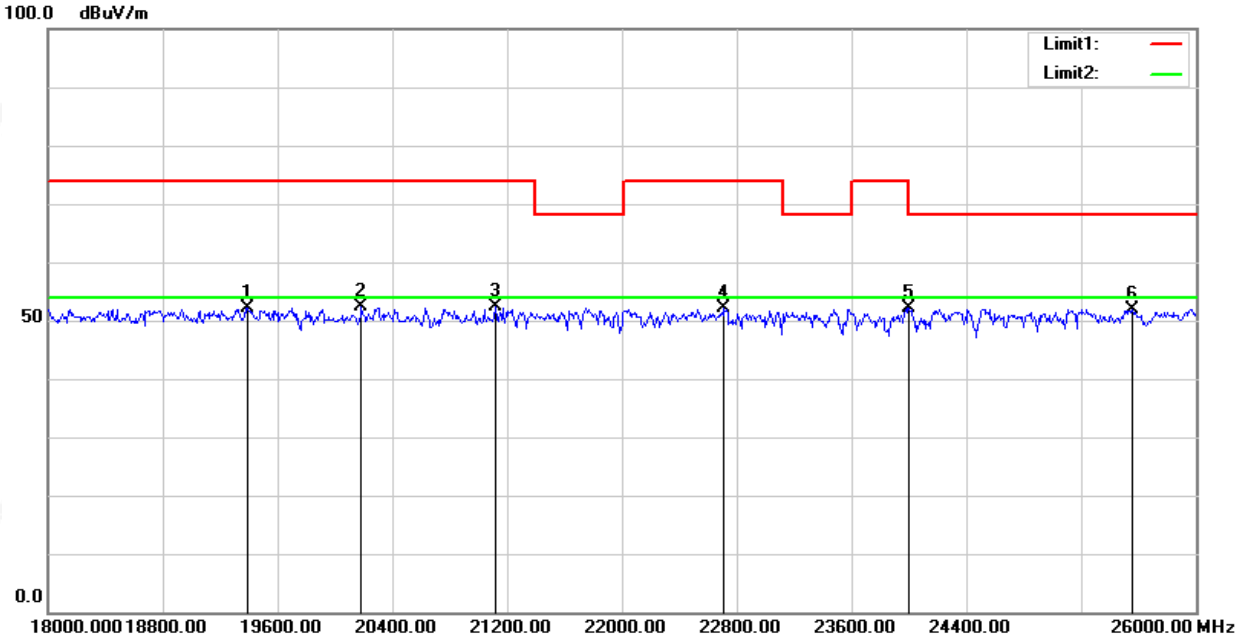
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	26532.000	47.04	6.10	53.14	68.20	-15.06	peak
2	27526.000	45.43	6.91	52.34	68.20	-15.86	peak
3	29976.000	43.19	9.05	52.24	68.20	-15.96	peak
4	32888.000	43.25	9.05	52.30	68.20	-15.90	peak
5	35268.000	42.10	9.74	51.84	68.20	-16.36	peak
6	38376.000	45.82	6.43	52.25	68.20	-15.95	peak

Middle
RSE-1G-18G-H



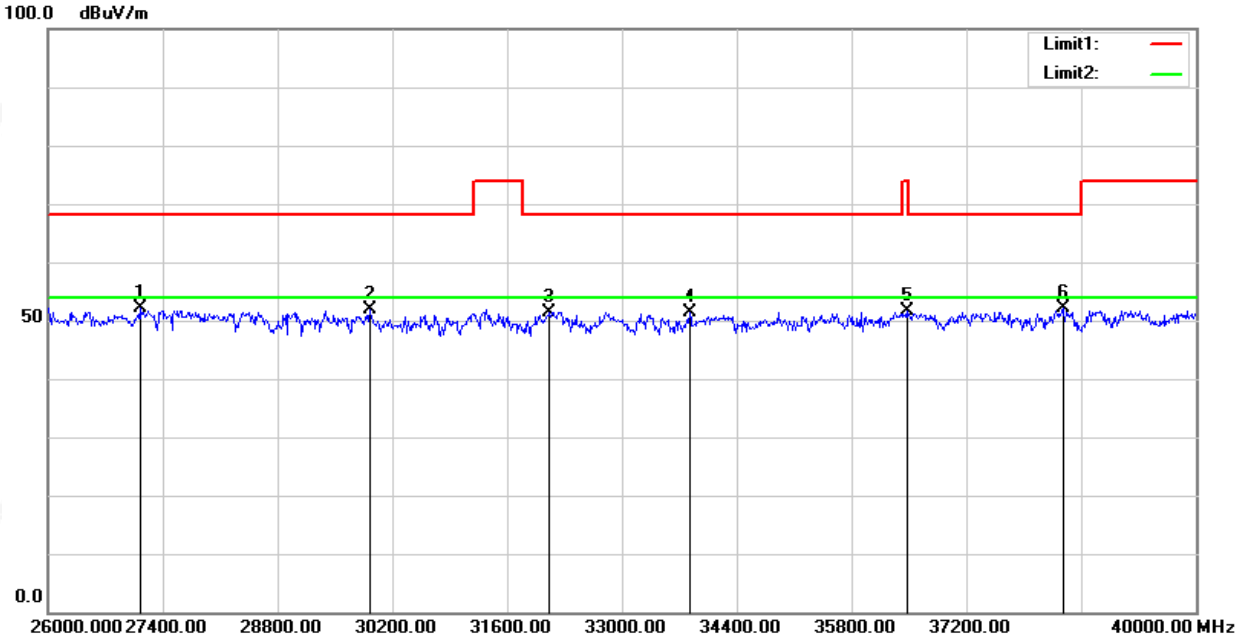
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1939.000	47.63	-0.04	68.2	20.57	Peak	0.40	Horizontal	Pass
1**	1939.000	43.58	-0.04	54.0	10.42	AV	0.40	Horizontal	Pass
2	2929.000	46.15	5.08	68.2	22.05	Peak	246.90	Horizontal	Pass
2**	2929.000	35.11	5.08	54.0	18.89	AV	246.90	Horizontal	Pass
3	7811.250	49.55	-1.66	68.2	18.65	Peak	350.30	Horizontal	Pass
3**	7811.250	41.39	-1.66	54.0	12.61	AV	350.30	Horizontal	Pass
4	8716.000	50.79	0.25	68.2	17.41	Peak	173.30	Horizontal	Pass
4**	8716.000	40.00	0.25	54.0	14.00	AV	173.30	Horizontal	Pass
5	11163.500	62.31	2.42	74.0	11.69	Peak	0.00	Horizontal	Pass
5**	11163.500	50.36	2.42	54.0	3.64	AV	0.00	Horizontal	Pass
6	16743.250	62.84	4.59	68.2	5.36	Peak	339.90	Horizontal	Pass
6**	16743.250	51.52	4.59	54.0	2.48	AV	339.90	Horizontal	Pass

RSE-18G-26G-H



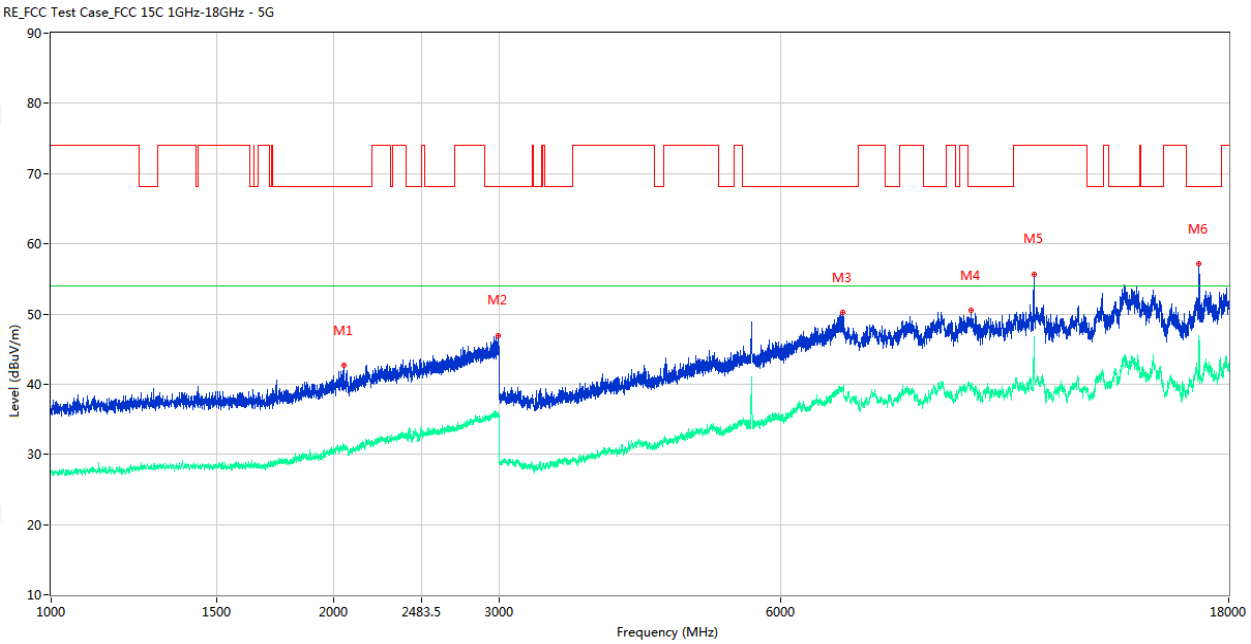
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	19392.000	50.60	1.54	52.14	54.00	-1.86	peak
2	20184.000	50.31	1.96	52.27	54.00	-1.73	peak
3	21120.000	49.61	2.72	52.33	54.00	-1.67	peak
4	22712.000	48.34	3.80	52.14	54.00	-1.86	peak
5	24000.000	47.60	4.63	52.23	68.20	-15.97	peak
6	25560.000	46.32	5.67	51.99	68.20	-16.21	peak

RSE-26G-40G-H



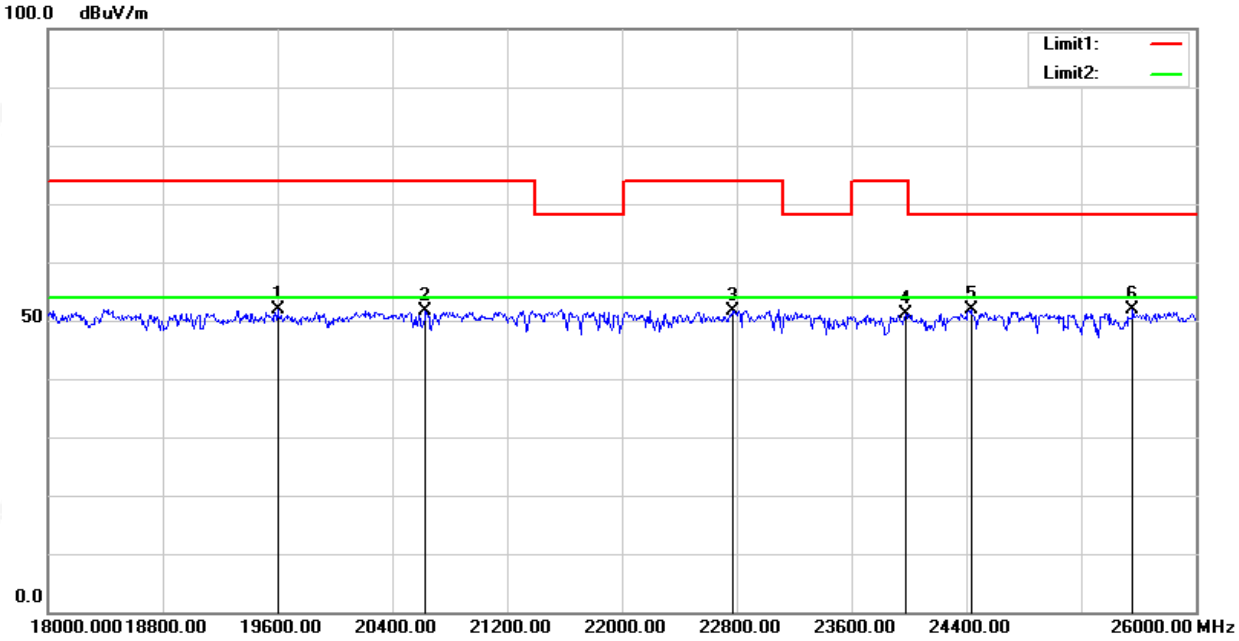
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	27120.000	45.40	6.69	52.09	68.20	-16.11	peak
2	29920.000	42.80	9.06	51.86	68.20	-16.34	peak
3	32118.000	42.26	9.23	51.49	68.20	-16.71	peak
4	33826.000	42.10	9.32	51.42	68.20	-16.78	peak
5	36472.000	43.07	8.51	51.58	54.00	-2.42	peak
6	38376.000	45.75	6.43	52.18	68.20	-16.02	peak

RSE-1G-18G-V



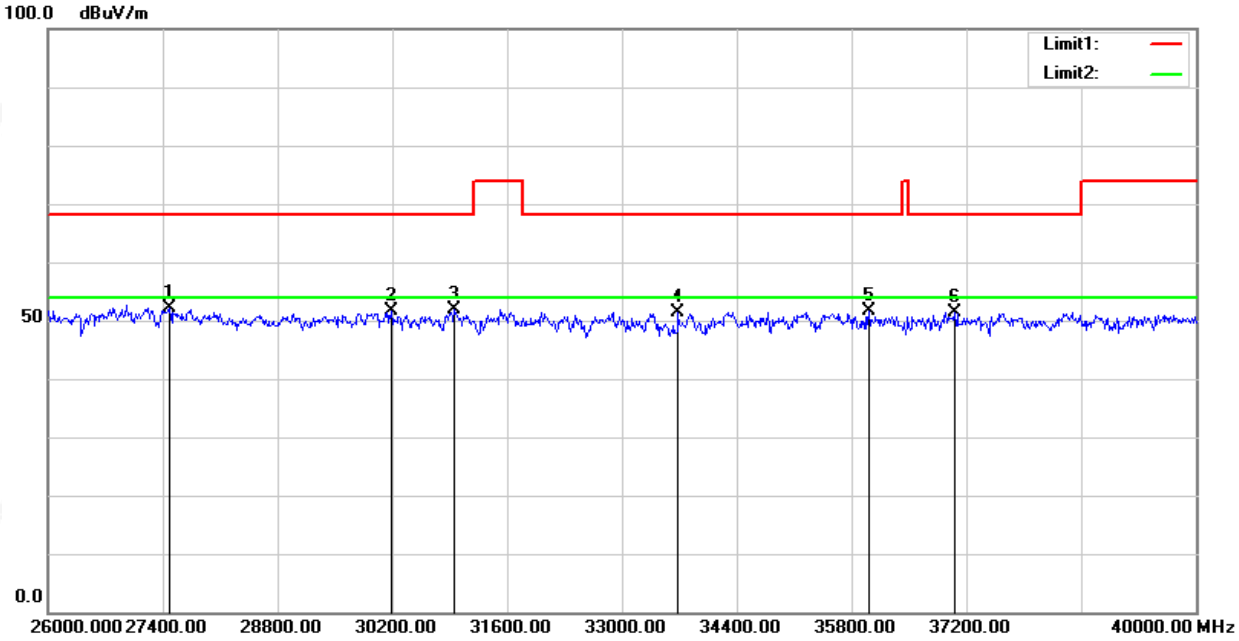
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2050.500	42.66	0.82	68.2	25.54	Peak	354.00	Vertical	Pass
1**	2050.500	30.84	0.82	54.0	23.16	AV	354.00	Vertical	Pass
2	2998.000	46.96	5.45	68.2	21.24	Peak	79.60	Vertical	Pass
2**	2998.000	35.52	5.45	54.0	18.48	AV	79.60	Vertical	Pass
3	6971.000	50.26	1.09	68.2	17.94	Peak	281.10	Vertical	Pass
3**	6971.000	39.54	1.09	54.0	14.46	AV	281.10	Vertical	Pass
4	9565.750	50.56	0.91	68.2	17.64	Peak	3.80	Vertical	Pass
4**	9565.750	39.67	0.91	54.0	14.33	AV	3.80	Vertical	Pass
5	11163.500	55.72	2.42	74.0	18.28	Peak	194.50	Vertical	Pass
5**	11163.500	45.78	2.42	54.0	8.22	AV	194.50	Vertical	Pass
6	16735.000	57.19	4.54	68.2	11.01	Peak	8.80	Vertical	Pass
6**	16735.000	46.51	4.54	54.0	7.49	AV	8.80	Vertical	Pass

RSE-18G-26G-V



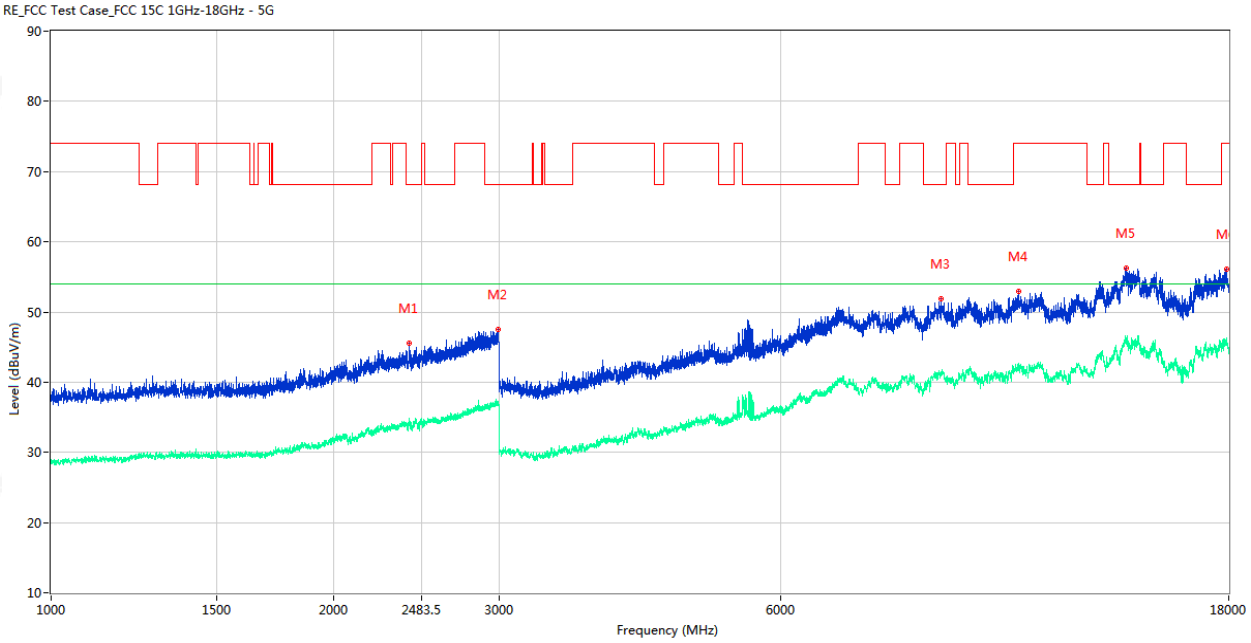
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	19600.000	50.30	1.54	51.84	54.00	-2.16	peak
2	20632.000	49.17	2.35	51.52	54.00	-2.48	peak
3	22768.000	47.98	3.76	51.74	54.00	-2.26	peak
4	23976.000	46.56	4.61	51.17	54.00	-2.83	peak
5	24432.000	47.23	4.71	51.94	68.20	-16.26	peak
6	25560.000	46.22	5.67	51.89	68.20	-16.31	peak

RSE-26G-40G-V



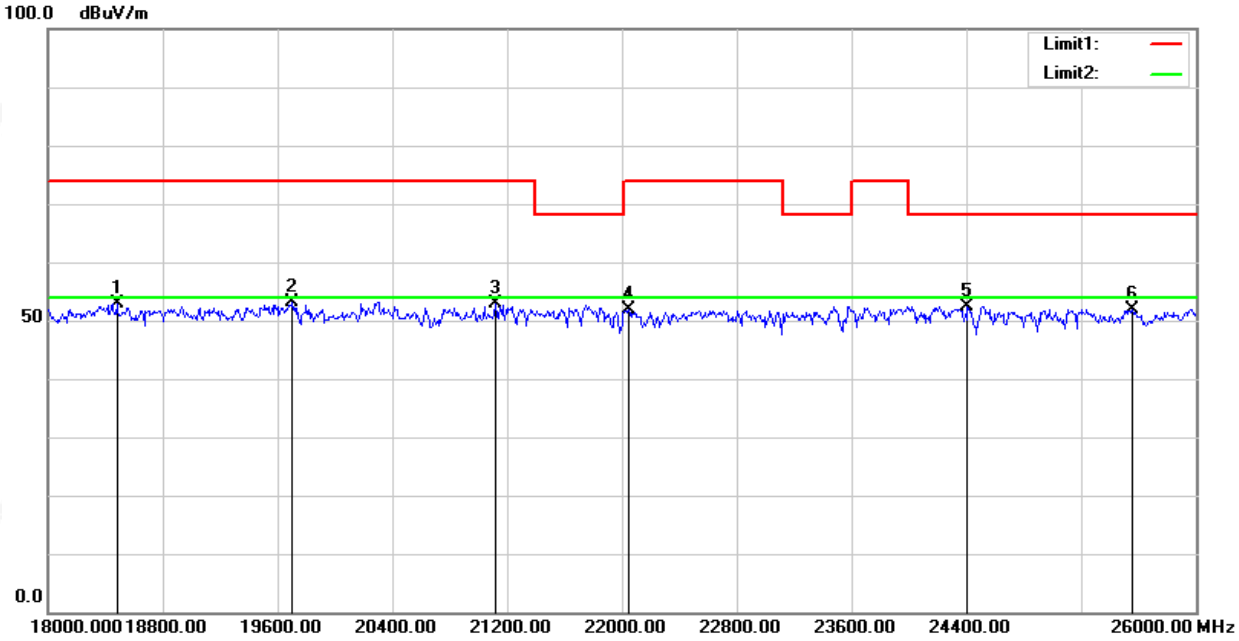
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	27484.000	45.33	6.88	52.21	68.20	-15.99	peak
2	30186.000	42.52	8.99	51.51	68.20	-16.69	peak
3	30956.000	42.91	8.94	51.85	68.20	-16.35	peak
4	33686.000	42.06	9.25	51.31	68.20	-16.89	peak
5	36010.000	42.41	9.31	51.72	68.20	-16.48	peak
6	37060.000	43.70	7.73	51.43	68.20	-16.77	peak

High
RSE-1G-18G-H



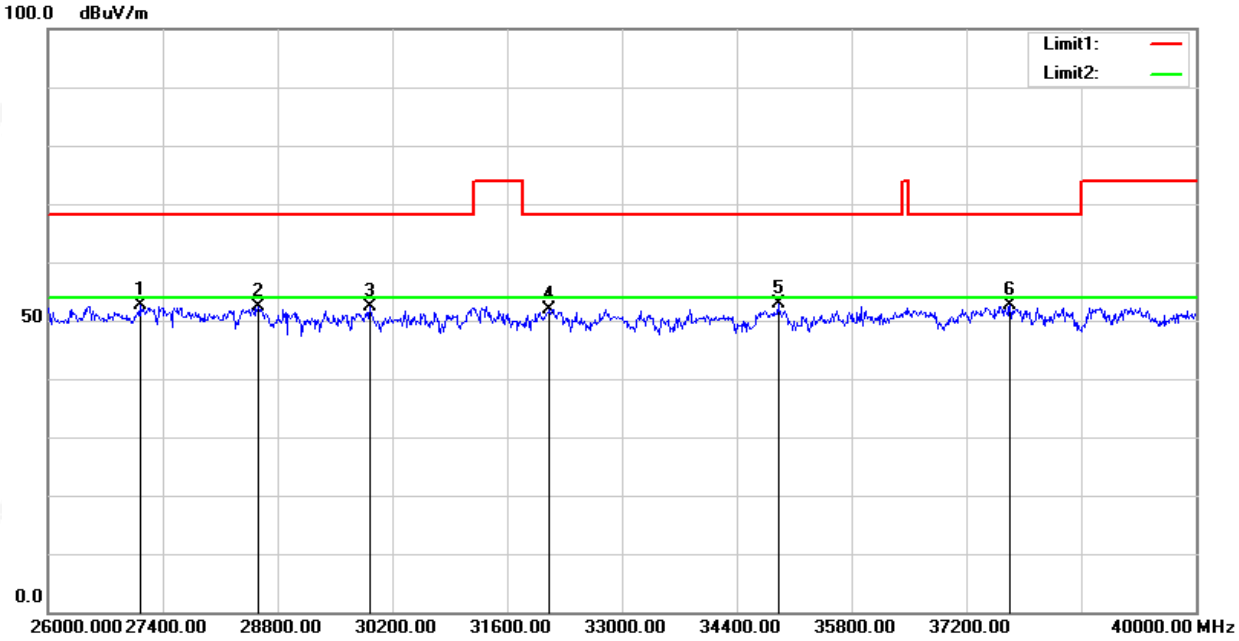
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2409.500	45.53	3.10	68.2	22.67	Peak	332.10	Horizontal	Pass
1**	2409.500	34.44	3.10	54.0	19.56	AV	332.10	Horizontal	Pass
2	2994.000	47.45	5.43	68.2	20.75	Peak	57.10	Horizontal	Pass
2**	2994.000	37.08	5.43	54.0	16.92	AV	57.10	Horizontal	Pass
3	8881.000	51.93	1.37	68.2	16.27	Peak	244.60	Horizontal	Pass
3**	8881.000	41.12	1.37	54.0	12.88	AV	244.60	Horizontal	Pass
4	10748.250	52.91	1.58	74.0	21.09	Peak	336.90	Horizontal	Pass
4**	10748.250	42.09	1.58	54.0	11.91	AV	336.90	Horizontal	Pass
5	14015.250	56.21	8.21	68.2	11.99	Peak	11.00	Horizontal	Pass
5**	14015.250	45.38	8.21	54.0	8.62	AV	11.00	Horizontal	Pass
6	17906.500	56.09	7.19	74.0	17.91	Peak	77.60	Horizontal	Pass
6**	17906.500	45.83	7.19	54.0	8.17	AV	77.60	Horizontal	Pass

RSE-18G-26G-H



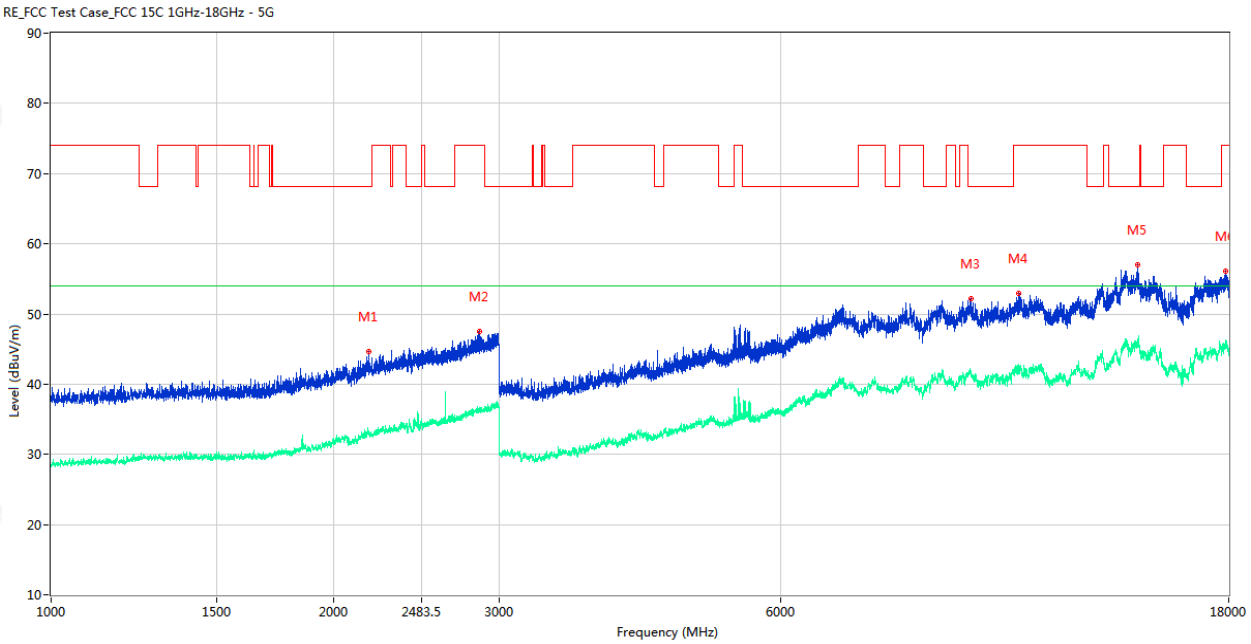
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18480.000	50.59	2.28	52.87	54.00	-1.13	peak
2	19704.000	51.43	1.60	53.03	54.00	-0.97	peak
3	21120.000	50.11	2.72	52.83	54.00	-1.17	peak
4	22048.000	48.52	3.46	51.98	54.00	-2.02	peak
5	24408.000	47.79	4.70	52.49	68.20	-15.71	peak
6	25560.000	46.32	5.67	51.99	68.20	-16.21	peak

RSE-26G-40G-H



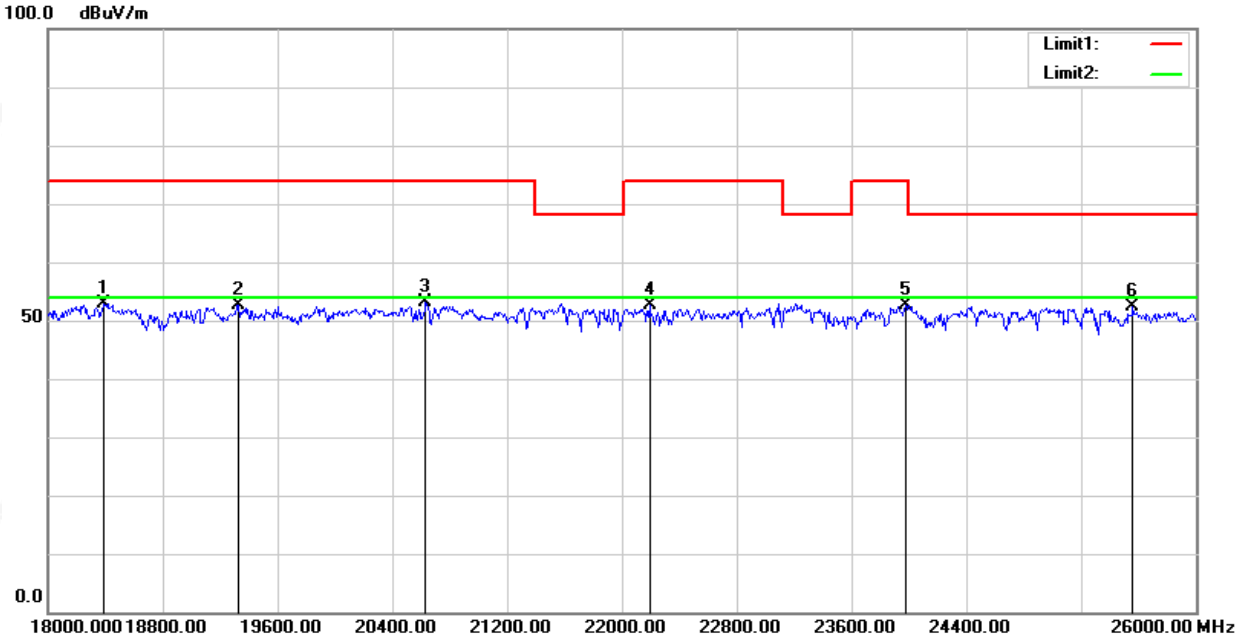
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	27120.000	45.90	6.69	52.59	68.20	-15.61	peak
2	28562.000	44.21	8.28	52.49	68.20	-15.71	peak
3	29920.000	43.30	9.06	52.36	68.20	-15.84	peak
4	32118.000	42.76	9.23	51.99	68.20	-16.21	peak
5	34904.000	43.09	9.68	52.77	68.20	-15.43	peak
6	37732.000	45.63	6.98	52.61	68.20	-15.59	peak

RSE-1G-18G-V



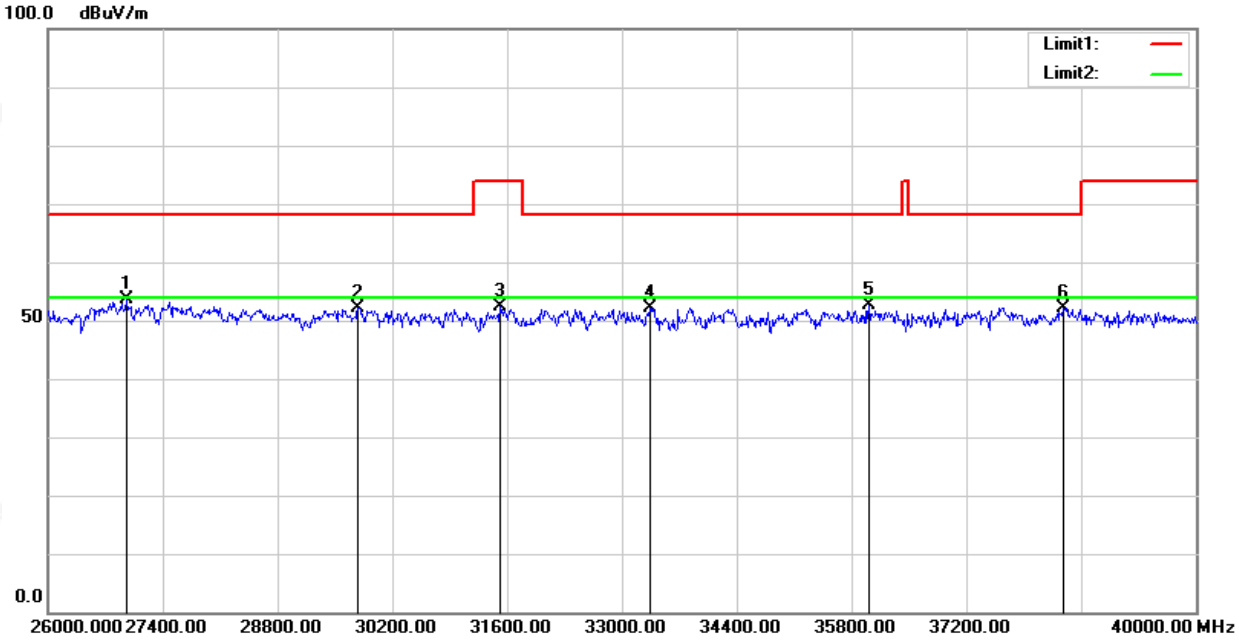
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2183.500	44.69	1.62	68.2	23.51	Peak	353.70	Vertical	Pass
1**	2183.500	33.08	1.62	54.0	20.92	AV	353.70	Vertical	Pass
2	2865.000	47.48	4.97	74.0	26.52	Peak	184.70	Vertical	Pass
2**	2865.000	36.41	4.97	54.0	17.59	AV	184.70	Vertical	Pass
3	9552.000	52.23	1.04	68.2	15.97	Peak	73.50	Vertical	Pass
3**	9552.000	41.90	1.04	54.0	12.10	AV	73.50	Vertical	Pass
4	10748.250	52.96	1.58	74.0	21.04	Peak	179.20	Vertical	Pass
4**	10748.250	41.98	1.58	54.0	12.02	AV	179.20	Vertical	Pass
5	14405.750	56.96	6.95	68.2	11.24	Peak	81.70	Vertical	Pass
5**	14405.750	46.29	6.95	54.0	7.71	AV	81.70	Vertical	Pass
6	17876.251	56.12	7.04	74.0	17.88	Peak	3.10	Vertical	Pass
6**	17876.251	45.72	7.04	54.0	8.28	AV	3.10	Vertical	Pass

RSE-18G-26G-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18392.000	50.60	2.35	52.95	54.00	-1.05	peak
2	19328.000	50.95	1.57	52.52	54.00	-1.48	peak
3	20632.000	50.67	2.35	53.02	54.00	-0.98	peak
4	22192.000	49.00	3.61	52.61	54.00	-1.39	peak
5	23976.000	48.06	4.61	52.67	54.00	-1.33	peak
6	25560.000	46.72	5.67	52.39	68.20	-15.81	peak

RSE-26G-40G-V

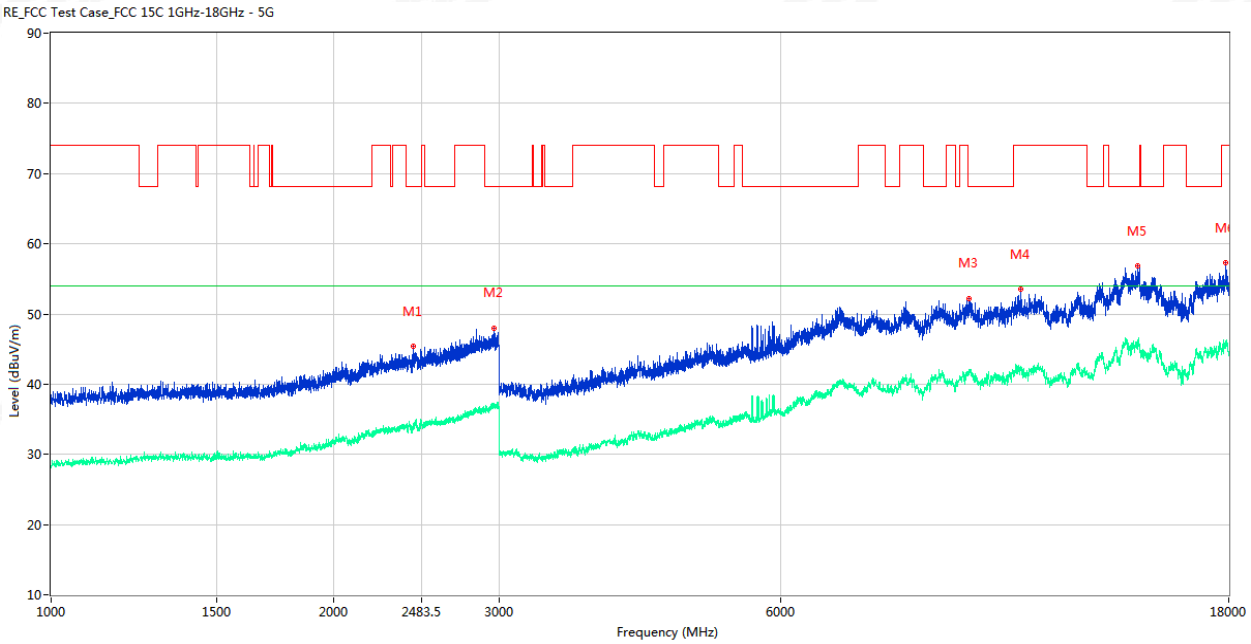


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	26952.000	47.16	6.56	53.72	68.20	-14.48	peak
2	29780.000	43.01	9.08	52.09	68.20	-16.11	peak
3	31516.000	43.08	9.19	52.27	54.00	-1.73	peak
4	33336.000	43.01	9.12	52.13	68.20	-16.07	peak
5	36010.000	43.41	9.31	52.72	68.20	-15.48	peak
6	38376.000	45.82	6.43	52.25	68.20	-15.95	peak

Note:

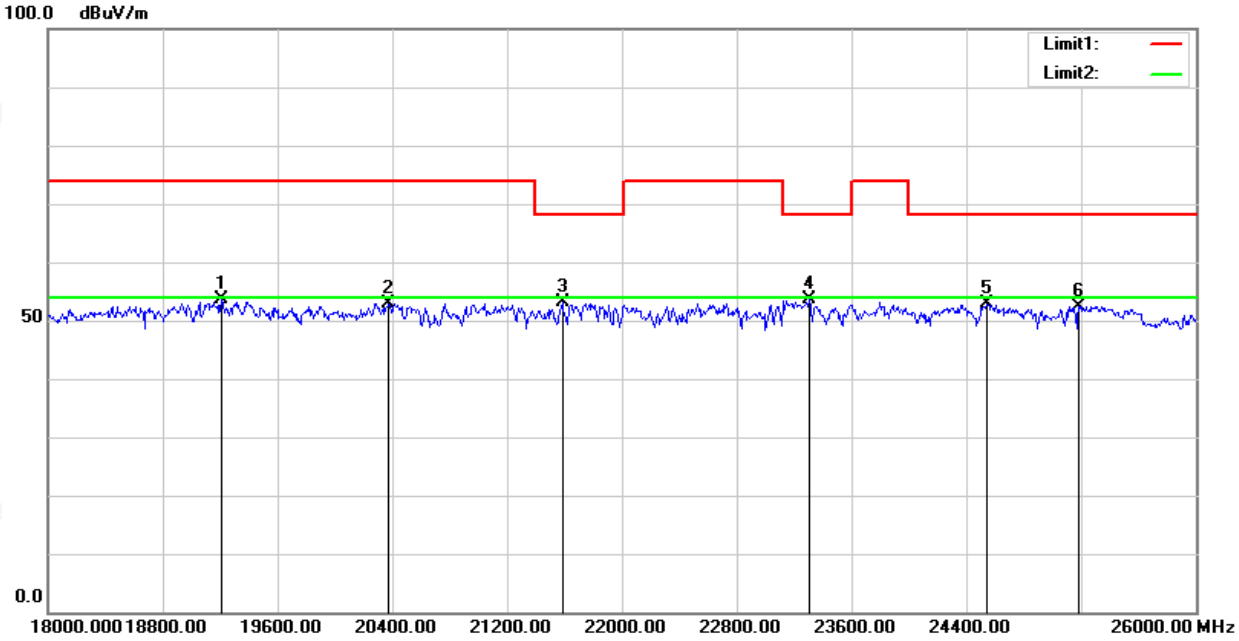
1) Factor = Antenna Factor + Cable Loss – Pre-amplifier.
   Emission Level = Reading + Factor.
2) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

U-NII-3
Worst mode (802.11n20)
Low
RSE-1G-18G-H



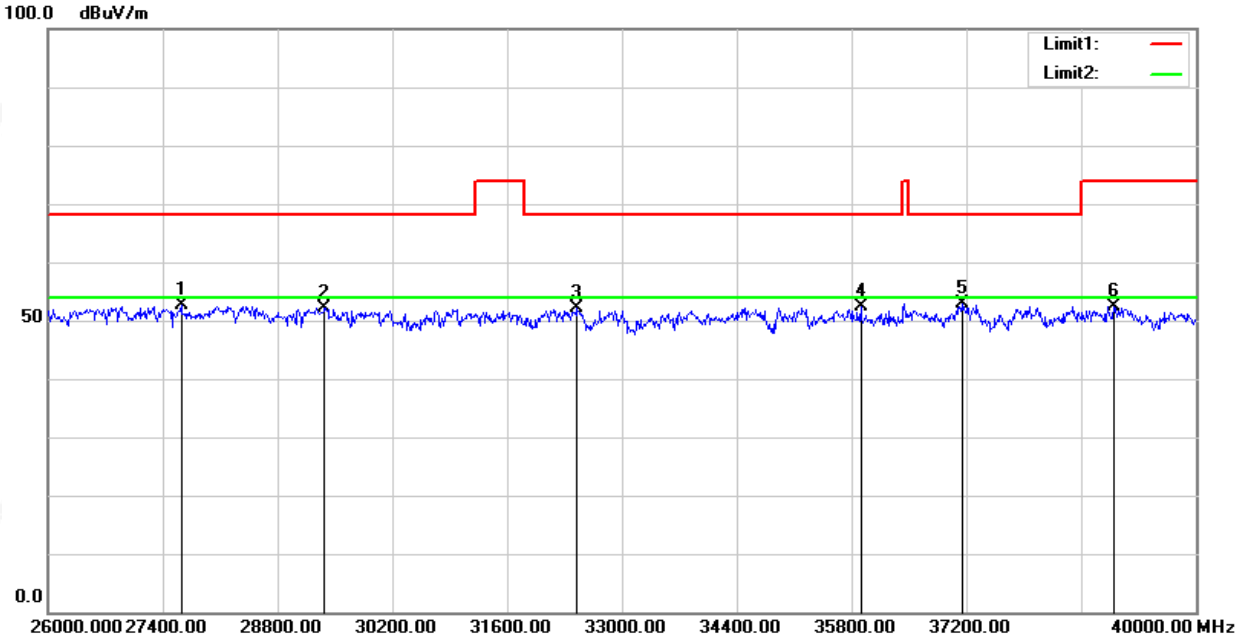
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2435.500	45.37	3.19	68.2	22.83	Peak	144.10	Horizontal	Pass
1**	2435.500	34.41	3.19	54.0	19.59	AV	144.10	Horizontal	Pass
2	2963.500	48.04	5.28	68.2	20.16	Peak	328.50	Horizontal	Pass
2**	2963.500	36.89	5.28	54.0	17.11	AV	328.50	Horizontal	Pass
3	9508.000	52.25	1.47	68.2	15.95	Peak	81.40	Horizontal	Pass
3**	9508.000	41.93	1.47	54.0	12.07	AV	81.40	Horizontal	Pass
4	10800.500	53.48	2.04	74.0	20.52	Peak	358.60	Horizontal	Pass
4**	10800.500	42.40	2.04	54.0	11.60	AV	358.60	Horizontal	Pass
5	14408.500	56.82	6.93	68.2	11.38	Peak	47.50	Horizontal	Pass
5**	14408.500	46.19	6.93	54.0	7.81	AV	47.50	Horizontal	Pass
6	17881.750	57.30	7.08	74.0	16.70	Peak	276.20	Horizontal	Pass
6**	17881.750	45.58	7.08	54.0	8.42	AV	276.20	Horizontal	Pass

RSE-18G-26G-H



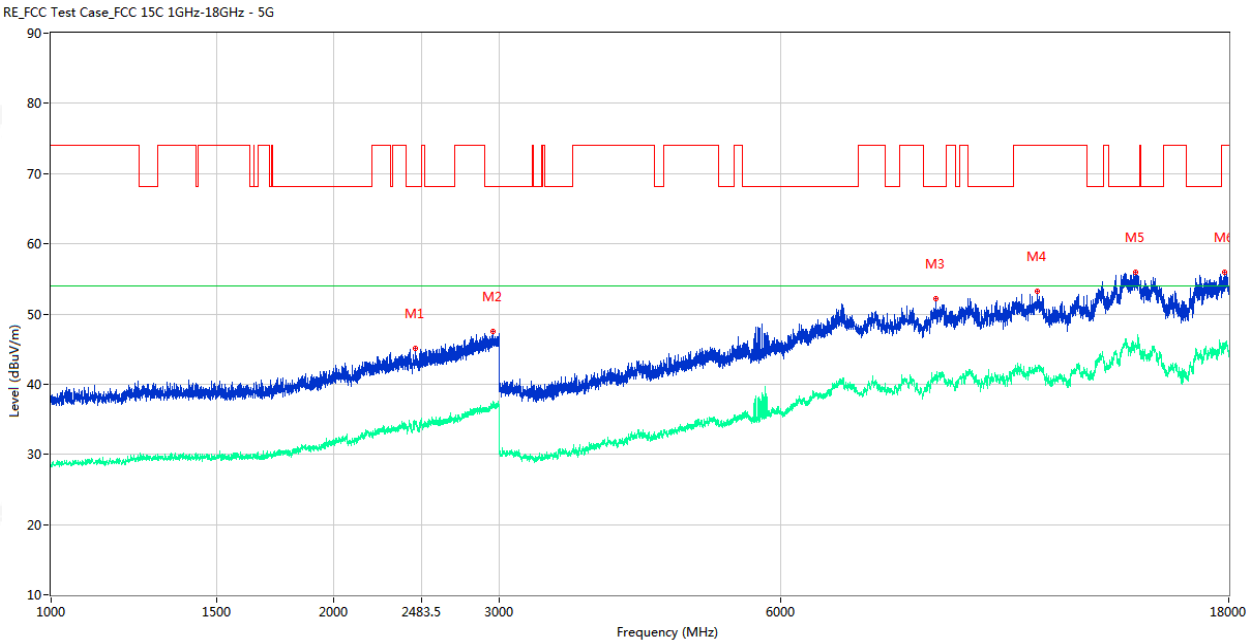
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	19208.000	51.88	1.63	53.51	54.00	-0.49	peak
2	20376.000	50.81	2.13	52.94	54.00	-1.06	peak
3	21584.000	50.00	3.01	53.01	68.20	-15.19	peak
4	23304.000	49.71	3.93	53.64	68.20	-14.56	peak
5	24544.000	48.14	4.76	52.90	68.20	-15.30	peak
6	25184.000	47.07	5.43	52.50	68.20	-15.70	peak

RSE-26G-40G-H



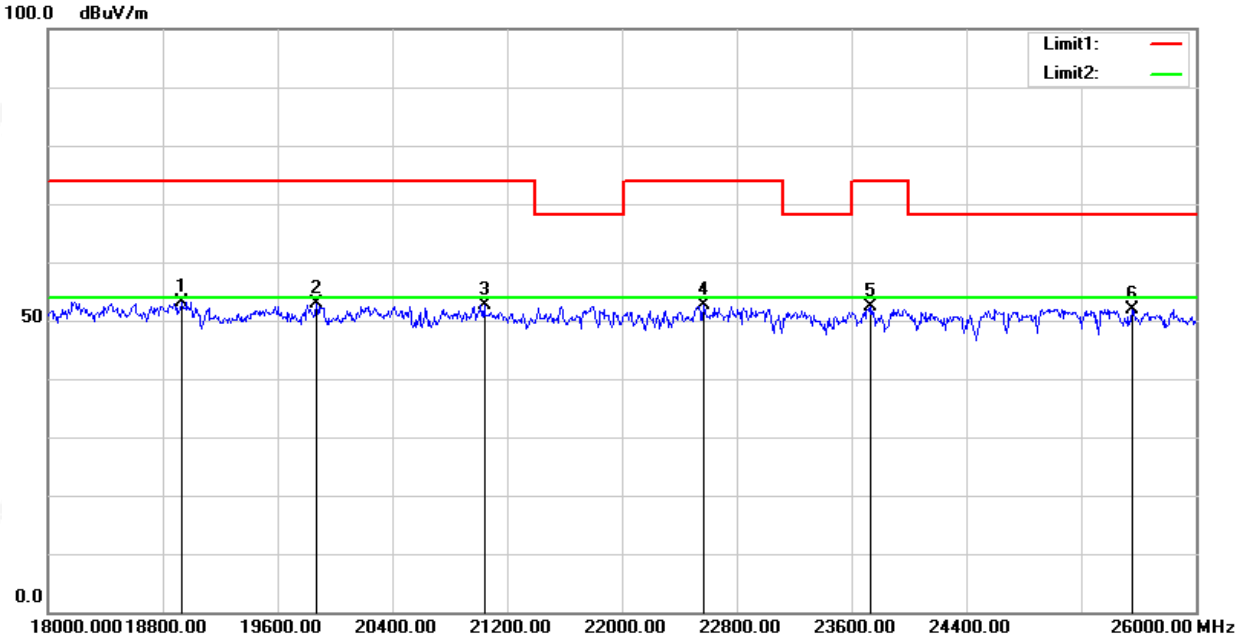
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	27624.000	45.67	7.00	52.67	68.20	-15.53	peak
2	29374.000	43.00	9.10	52.10	68.20	-16.10	peak
3	32454.000	42.96	9.19	52.15	68.20	-16.05	peak
4	35912.000	42.86	9.40	52.26	68.20	-15.94	peak
5	37144.000	45.34	7.64	52.98	68.20	-15.22	peak
6	38992.000	45.45	6.95	52.40	54.00	-1.60	peak

RSE-1G-18G-V



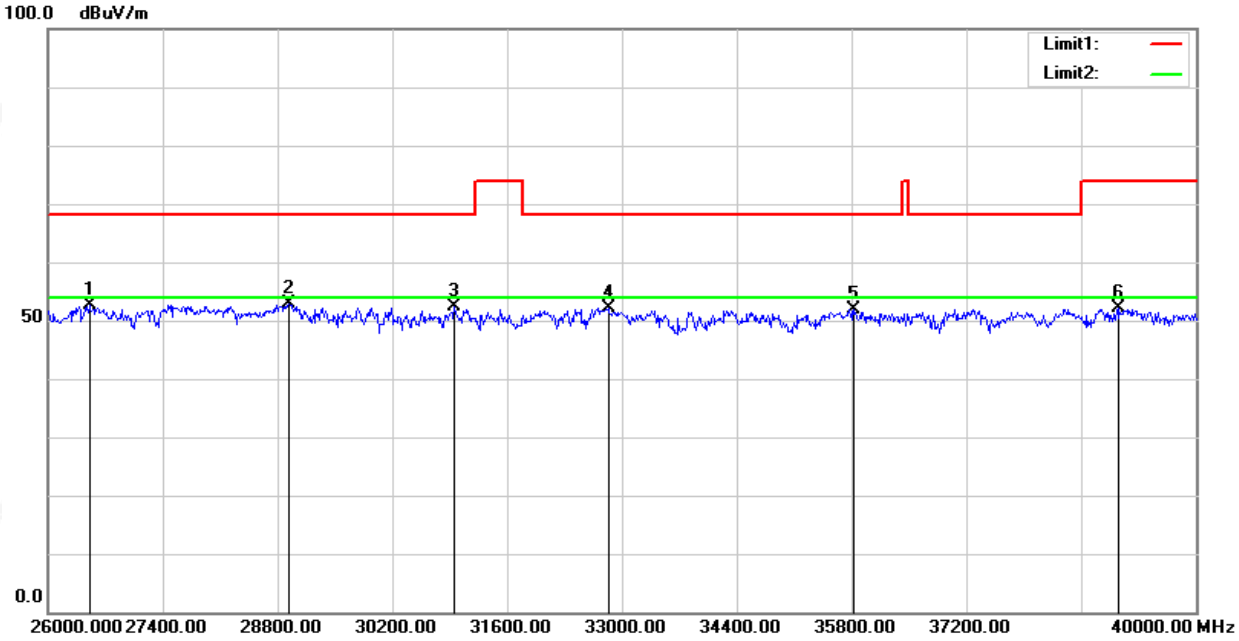
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2447.500	45.08	3.23	68.2	23.12	Peak	37.50	Vertical	Pass
1**	2447.500	34.34	3.23	54.0	19.66	AV	37.50	Vertical	Pass
2	2955.000	47.46	5.24	68.2	20.74	Peak	6.80	Vertical	Pass
2**	2955.000	37.21	5.24	54.0	16.79	AV	6.80	Vertical	Pass
3	8765.500	52.11	0.18	68.2	16.09	Peak	184.80	Vertical	Pass
3**	8765.500	41.14	0.18	54.0	12.86	AV	184.80	Vertical	Pass
4	11262.500	53.23	2.41	74.0	20.77	Peak	217.50	Vertical	Pass
4**	11262.500	42.17	2.41	54.0	11.83	AV	217.50	Vertical	Pass
5	14323.250	55.98	6.91	68.2	12.22	Peak	187.00	Vertical	Pass
5**	14323.250	45.84	6.91	54.0	8.16	AV	187.00	Vertical	Pass
6	17796.499	55.88	6.36	74.0	18.12	Peak	317.20	Vertical	Pass
6**	17796.499	45.87	6.36	54.0	8.13	AV	317.20	Vertical	Pass

RSE-18G-26G-V



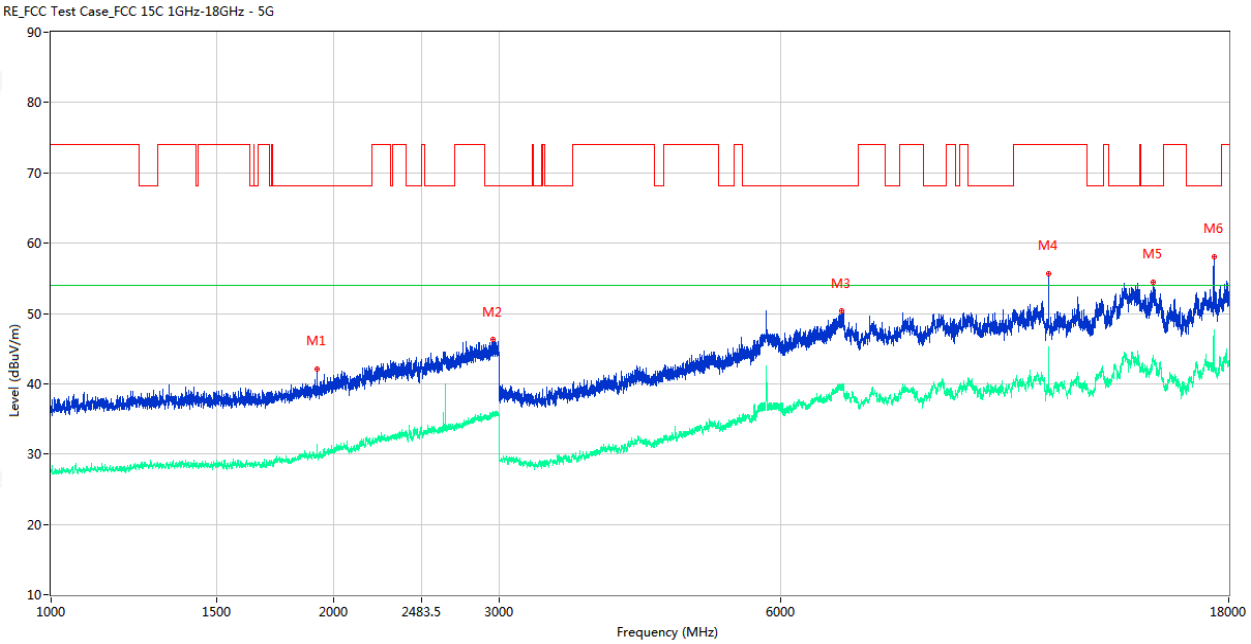
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18936.000	51.28	1.81	53.09	54.00	-0.91	peak
2	19872.000	51.12	1.72	52.84	54.00	-1.16	peak
3	21040.000	49.94	2.69	52.63	54.00	-1.37	peak
4	22568.000	48.75	3.88	52.63	54.00	-1.37	peak
5	23736.000	47.91	4.37	52.28	54.00	-1.72	peak
6	25560.000	46.22	5.67	51.89	68.20	-16.31	peak

RSE-26G-40G-V



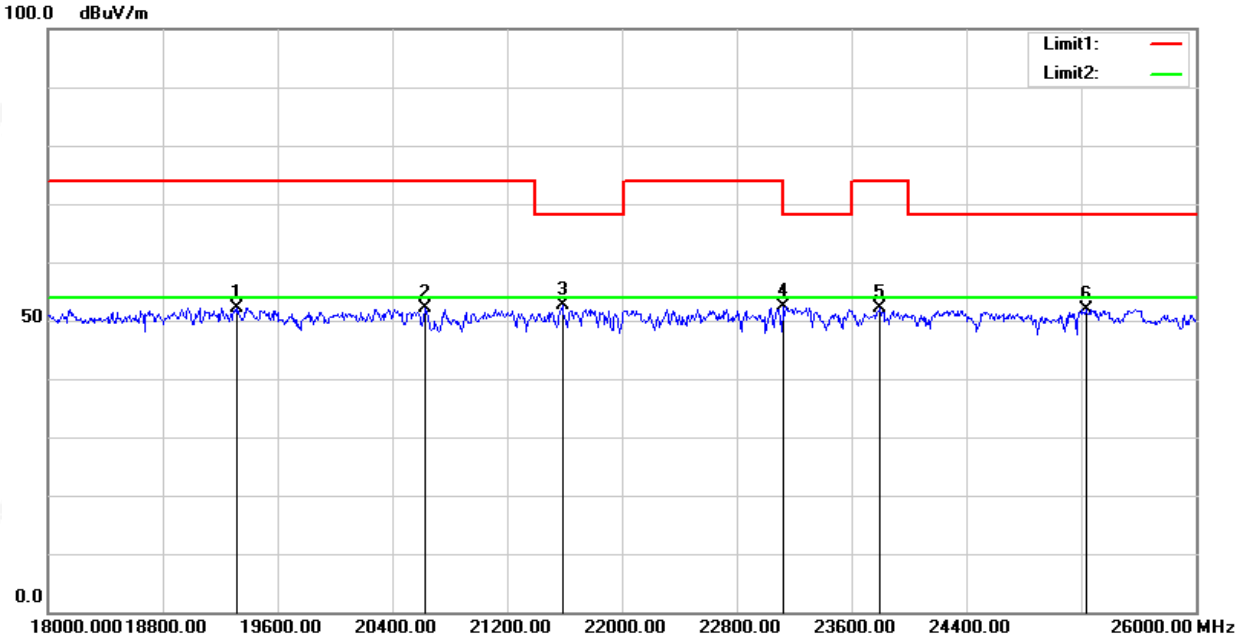
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	26504.000	46.60	6.06	52.66	68.20	-15.54	peak
2	28940.000	44.09	8.89	52.98	68.20	-15.22	peak
3	30956.000	43.41	8.94	52.35	68.20	-15.85	peak
4	32832.000	43.06	9.08	52.14	68.20	-16.06	peak
5	35828.000	42.34	9.47	51.81	68.20	-16.39	peak
6	39048.000	45.15	7.06	52.21	54.00	-1.79	peak

Middle
RSE-1G-18G-H



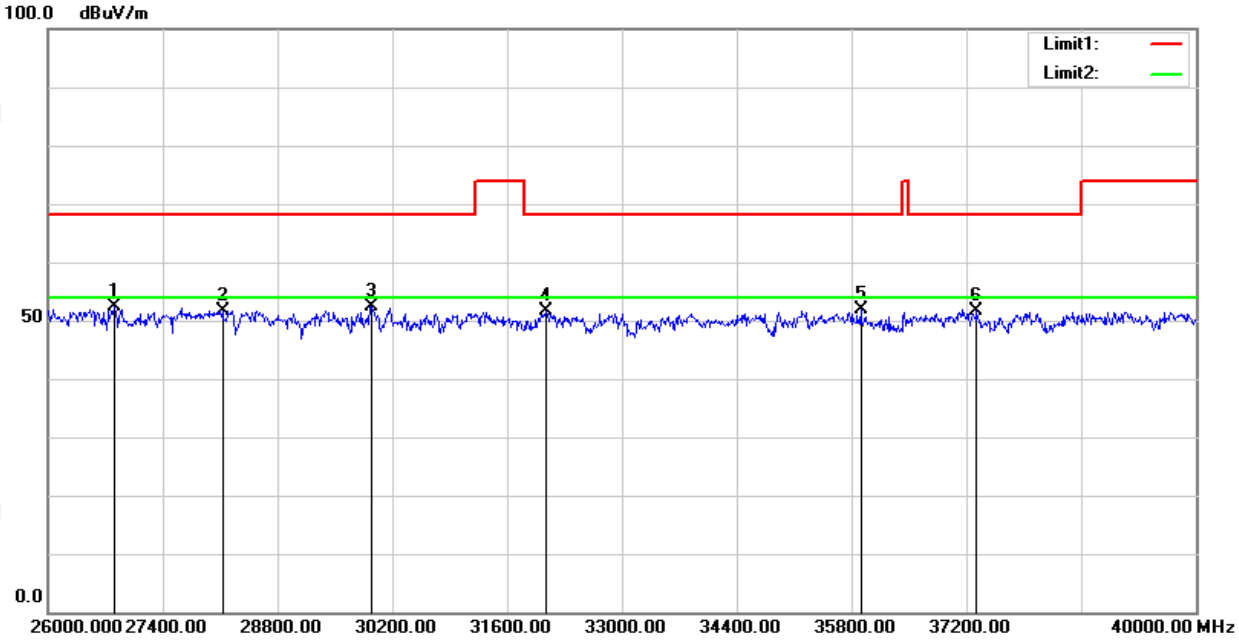
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1921.500	42.06	-0.10	68.2	26.14	Peak	337.40	Horizontal	Pass
1**	1921.500	31.39	-0.10	54.0	22.61	AV	337.40	Horizontal	Pass
2	2957.500	46.31	5.25	68.2	21.89	Peak	353.60	Horizontal	Pass
2**	2957.500	35.65	5.25	54.0	18.35	AV	353.60	Horizontal	Pass
3	6967.000	50.41	1.05	68.2	17.79	Peak	121.50	Horizontal	Pass
3**	6967.000	39.47	1.05	54.0	14.53	AV	121.50	Horizontal	Pass
4	11570.500	55.60	2.06	74.0	18.40	Peak	81.60	Horizontal	Pass
4**	11570.500	44.64	2.06	54.0	9.36	AV	81.60	Horizontal	Pass
5	14955.750	54.48	5.42	68.2	13.72	Peak	329.30	Horizontal	Pass
5**	14955.750	43.37	5.42	54.0	10.63	AV	329.30	Horizontal	Pass
6	17353.751	58.11	6.59	68.2	10.09	Peak	14.00	Horizontal	Pass
6**	17353.751	47.68	6.59	54.0	6.32	AV	14.00	Horizontal	Pass

RSE-18G-26G-H



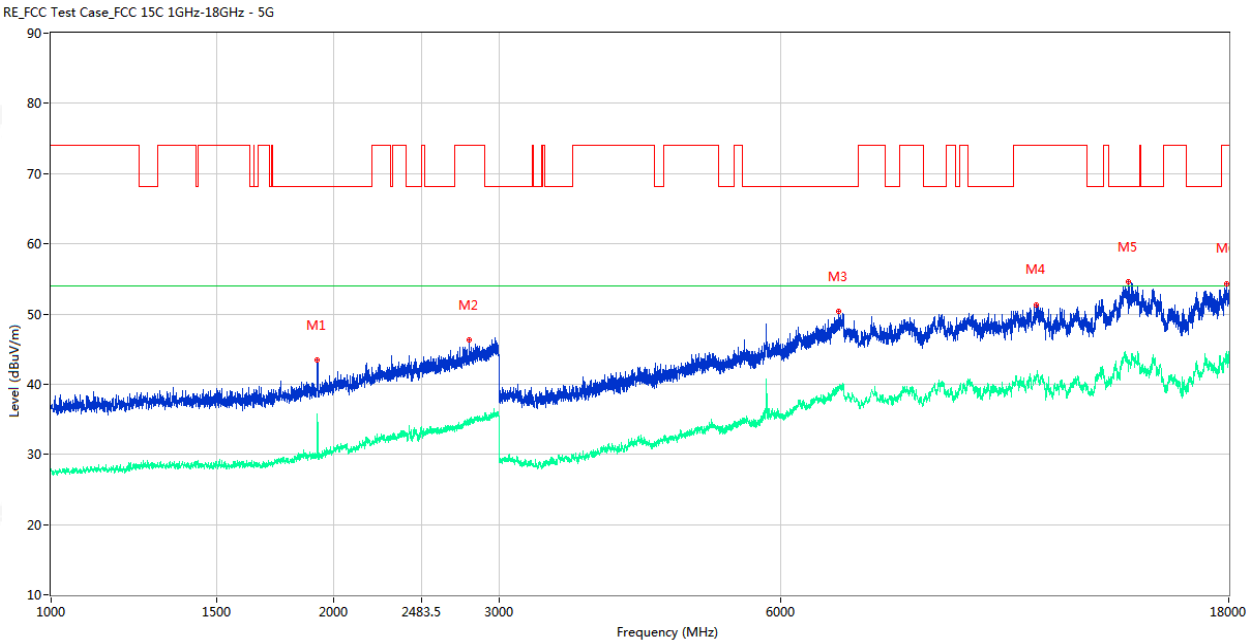
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	19320.000	50.64	1.58	52.22	54.00	-1.78	peak
2	20632.000	49.87	2.35	52.22	54.00	-1.78	peak
3	21584.000	49.50	3.01	52.51	68.20	-15.69	peak
4	23128.000	48.72	3.76	52.48	68.20	-15.72	peak
5	23800.000	47.79	4.43	52.22	54.00	-1.78	peak
6	25232.000	46.51	5.46	51.97	68.20	-16.23	peak

RSE-26G-40G-H



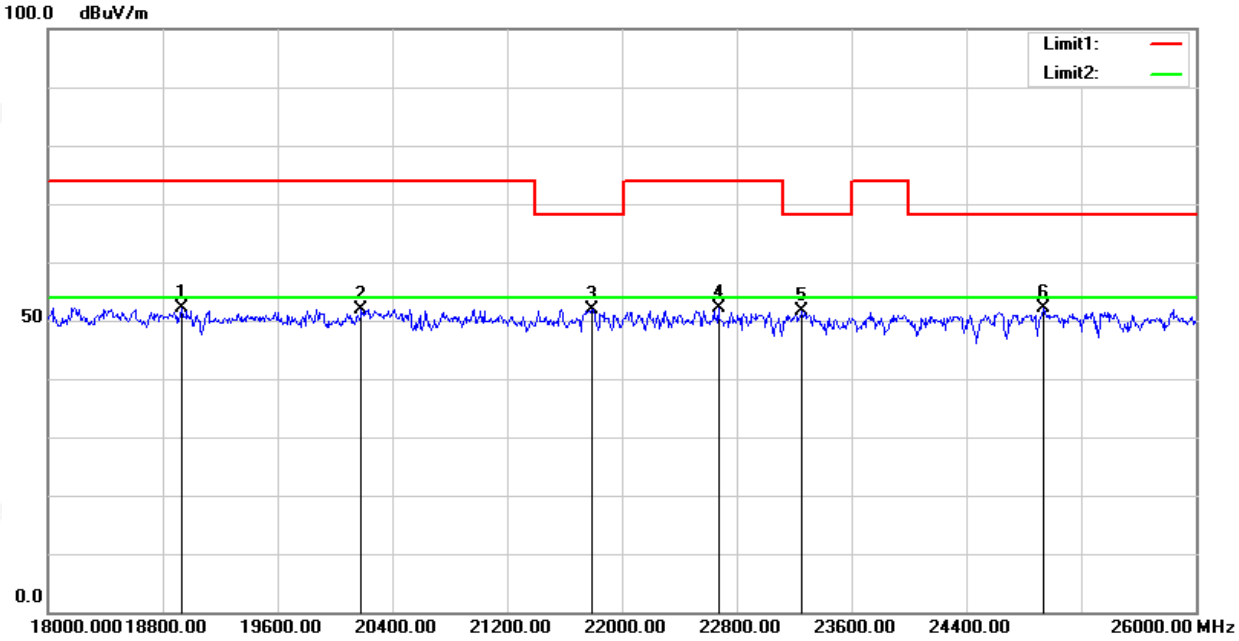
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	26812.000	45.89	6.40	52.29	68.20	-15.91	peak
2	28128.000	44.16	7.57	51.73	68.20	-16.47	peak
3	29948.000	43.44	9.05	52.49	68.20	-15.71	peak
4	32076.000	42.35	9.22	51.57	68.20	-16.63	peak
5	35912.000	42.36	9.40	51.76	68.20	-16.44	peak
6	37326.000	44.20	7.44	51.64	68.20	-16.56	peak

RSE-1G-18G-V



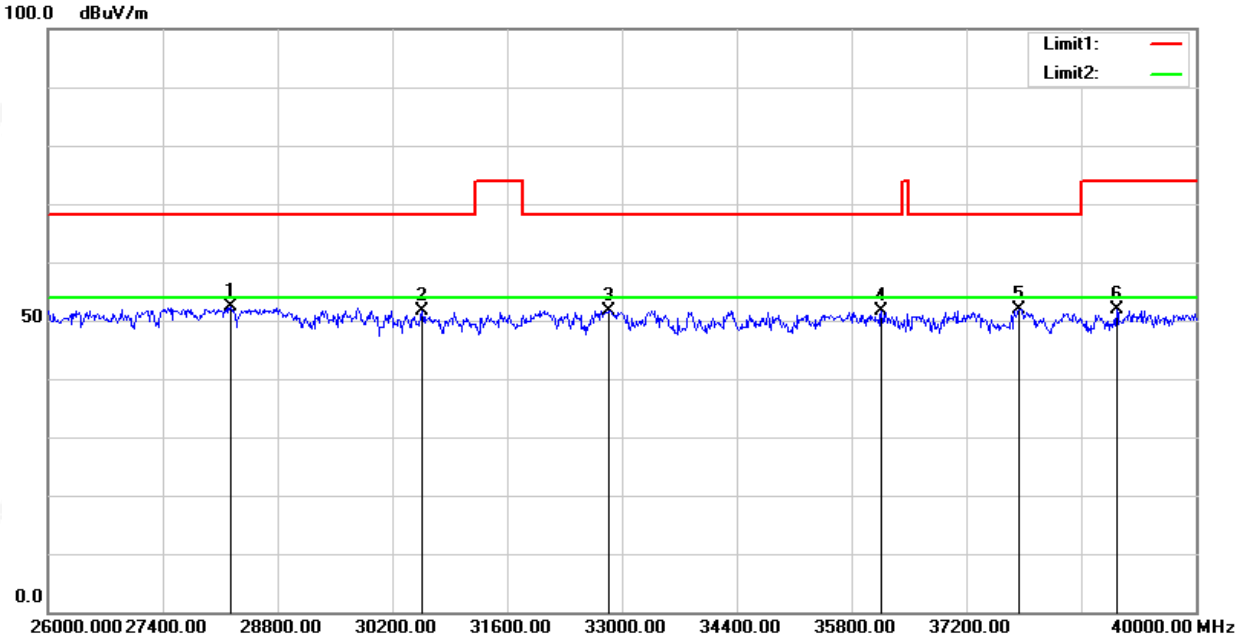
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1921.000	43.39	-0.10	68.2	24.81	Peak	146.80	Vertical	Pass
1**	1921.000	35.37	-0.10	54.0	18.63	AV	146.80	Vertical	Pass
2	2791.500	46.35	4.70	74.0	27.65	Peak	281.80	Vertical	Pass
2**	2791.500	34.59	4.70	54.0	19.41	AV	281.80	Vertical	Pass
3	6904.000	50.41	0.54	68.2	17.79	Peak	174.60	Vertical	Pass
3**	6904.000	39.65	0.54	54.0	14.35	AV	174.60	Vertical	Pass
4	11224.001	51.35	2.54	74.0	22.65	Peak	240.90	Vertical	Pass
4**	11224.001	40.69	2.54	54.0	13.31	AV	240.90	Vertical	Pass
5	14053.750	54.56	7.59	68.2	13.64	Peak	225.70	Vertical	Pass
5**	14053.750	42.90	7.59	54.0	11.10	AV	225.70	Vertical	Pass
6	17890.001	54.37	7.15	74.0	19.63	Peak	148.30	Vertical	Pass
6**	17890.001	43.98	7.15	54.0	10.02	AV	148.30	Vertical	Pass

RSE-18G-26G-V



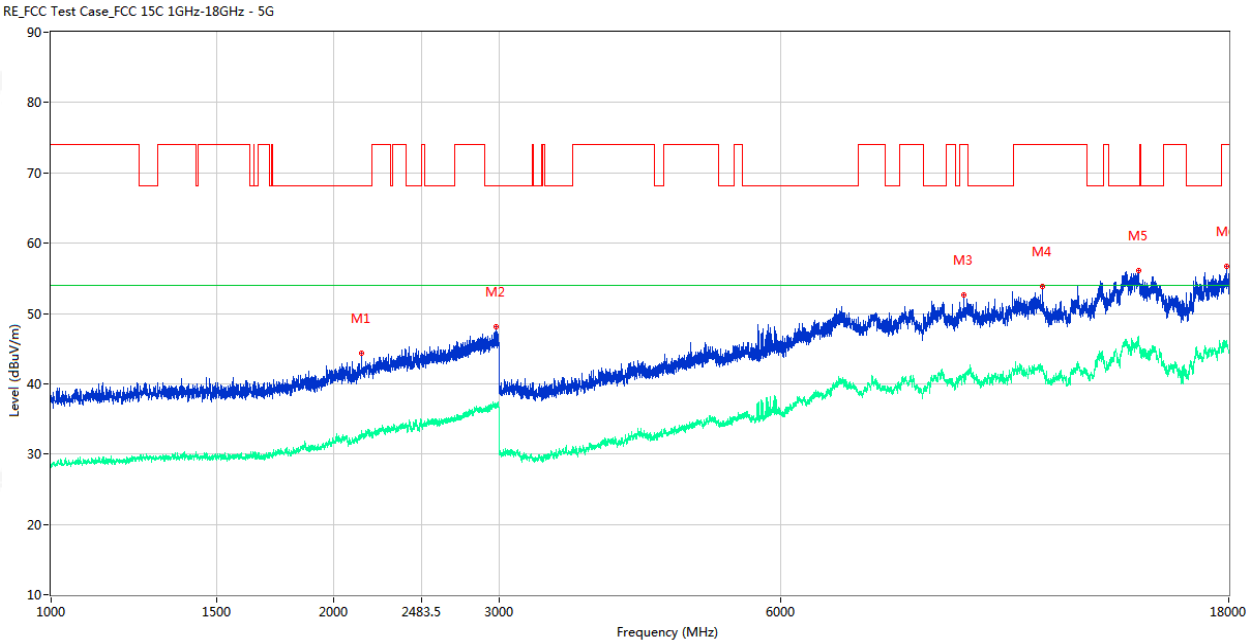
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18936.000	50.28	1.81	52.09	54.00	-1.91	peak
2	20184.000	49.95	1.96	51.91	54.00	-2.09	peak
3	21792.000	48.75	3.22	51.97	68.20	-16.23	peak
4	22672.000	48.26	3.82	52.08	54.00	-1.92	peak
5	23256.000	47.76	3.89	51.65	68.20	-16.55	peak
6	24936.000	46.91	5.23	52.14	68.20	-16.06	peak

RSE-26G-40G-V



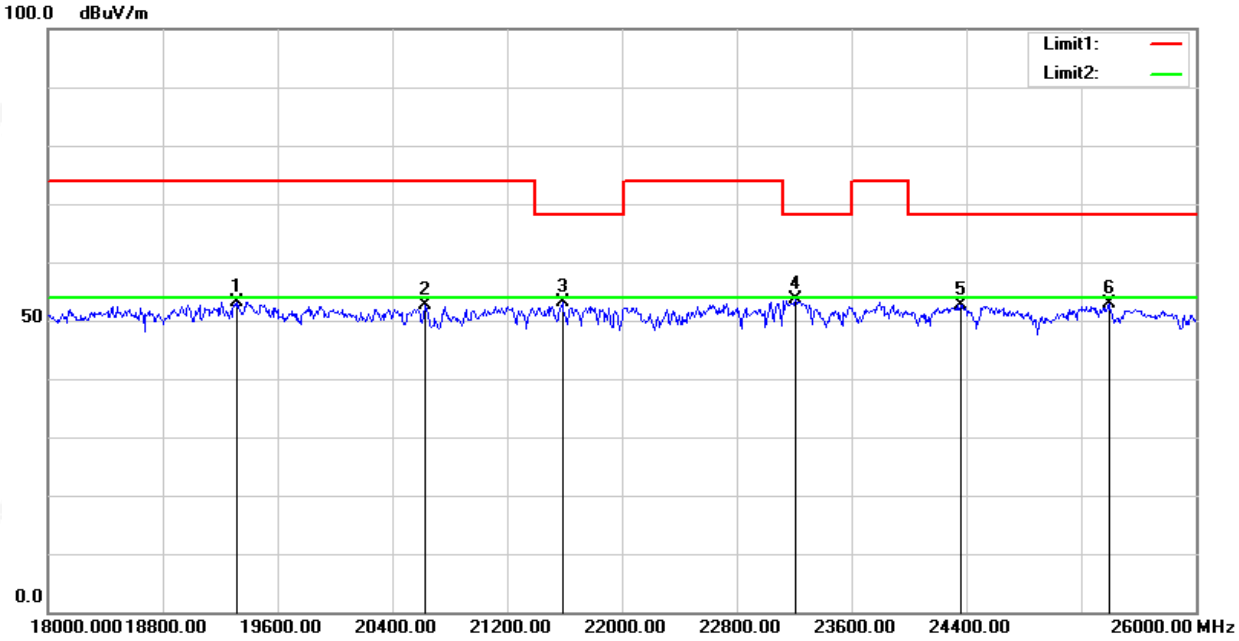
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	28226.000	44.63	7.73	52.36	68.20	-15.84	peak
2	30564.000	42.75	8.90	51.65	68.20	-16.55	peak
3	32832.000	42.56	9.08	51.64	68.20	-16.56	peak
4	36164.000	42.68	9.04	51.72	68.20	-16.48	peak
5	37844.000	45.09	6.86	51.95	68.20	-16.25	peak
6	39034.000	44.74	7.05	51.79	54.00	-2.21	peak

High
RSE-1G-18G-H



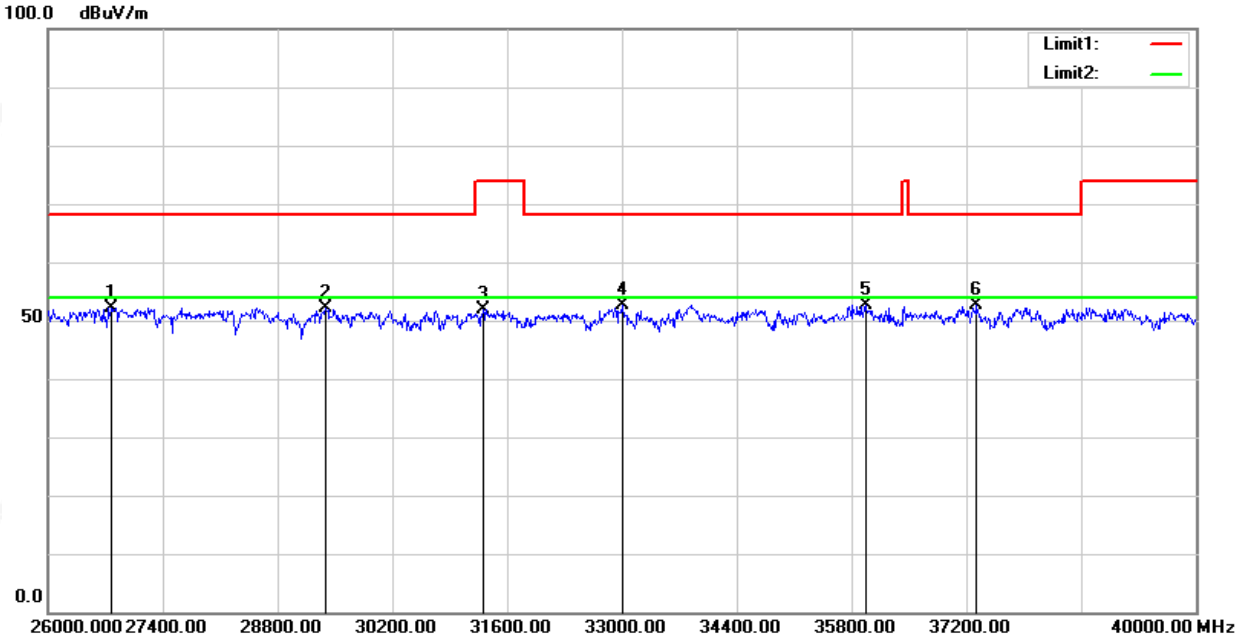
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2143.500	44.28	1.74	68.2	23.92	Peak	172.50	Horizontal	Pass
1**	2143.500	33.07	1.74	54.0	20.93	AV	172.50	Horizontal	Pass
2	2979.500	48.15	5.36	68.2	20.05	Peak	188.50	Horizontal	Pass
2**	2979.500	36.95	5.36	54.0	17.05	AV	188.50	Horizontal	Pass
3	9387.000	52.63	0.93	74.0	21.37	Peak	12.90	Horizontal	Pass
3**	9387.000	41.01	0.93	54.0	12.99	AV	12.90	Horizontal	Pass
4	11394.500	53.83	1.97	74.0	20.17	Peak	112.90	Horizontal	Pass
4**	11394.500	41.76	1.97	54.0	12.24	AV	112.90	Horizontal	Pass
5	14416.750	56.14	6.87	68.2	12.06	Peak	347.70	Horizontal	Pass
5**	14416.750	46.69	6.87	54.0	7.31	AV	347.70	Horizontal	Pass
6	17912.001	56.70	7.15	74.0	17.30	Peak	360.10	Horizontal	Pass
6**	17912.001	45.71	7.15	54.0	8.29	AV	360.10	Horizontal	Pass

RSE-18G-26G-H



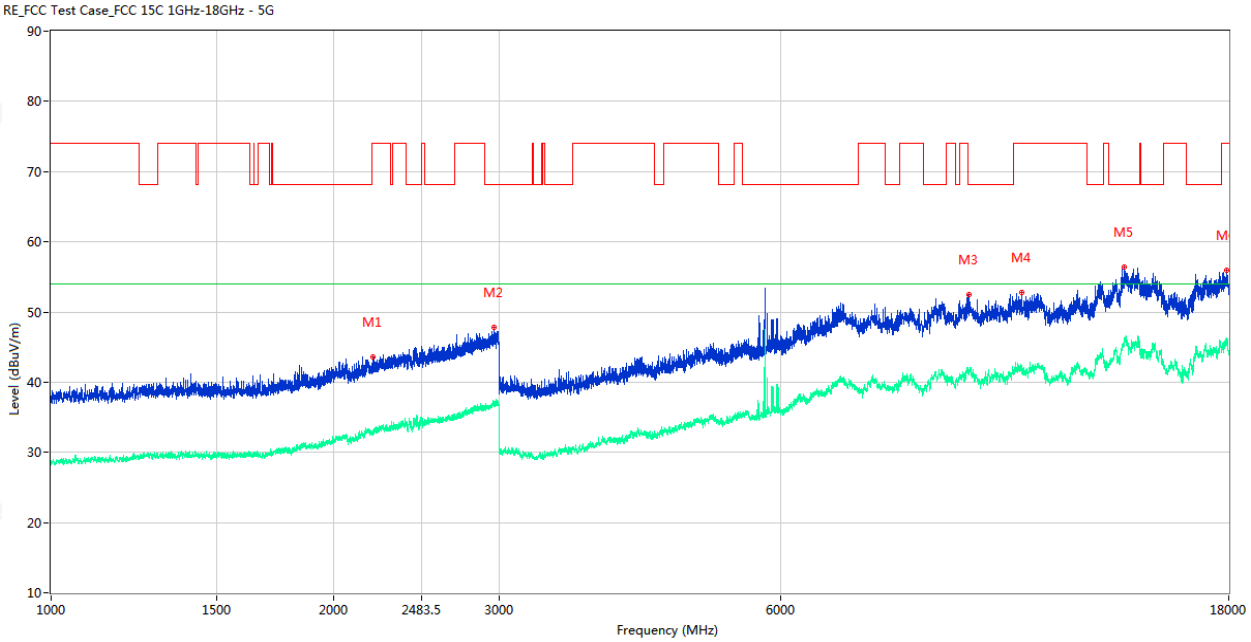
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	19320.000	51.64	1.58	53.22	54.00	-0.78	peak
2	20632.000	50.37	2.35	52.72	54.00	-1.28	peak
3	21584.000	50.00	3.01	53.01	68.20	-15.19	peak
4	23208.000	49.72	3.85	53.57	68.20	-14.63	peak
5	24360.000	47.96	4.70	52.66	68.20	-15.54	peak
6	25392.000	47.22	5.58	52.80	68.20	-15.40	peak

RSE-26G-40G-H



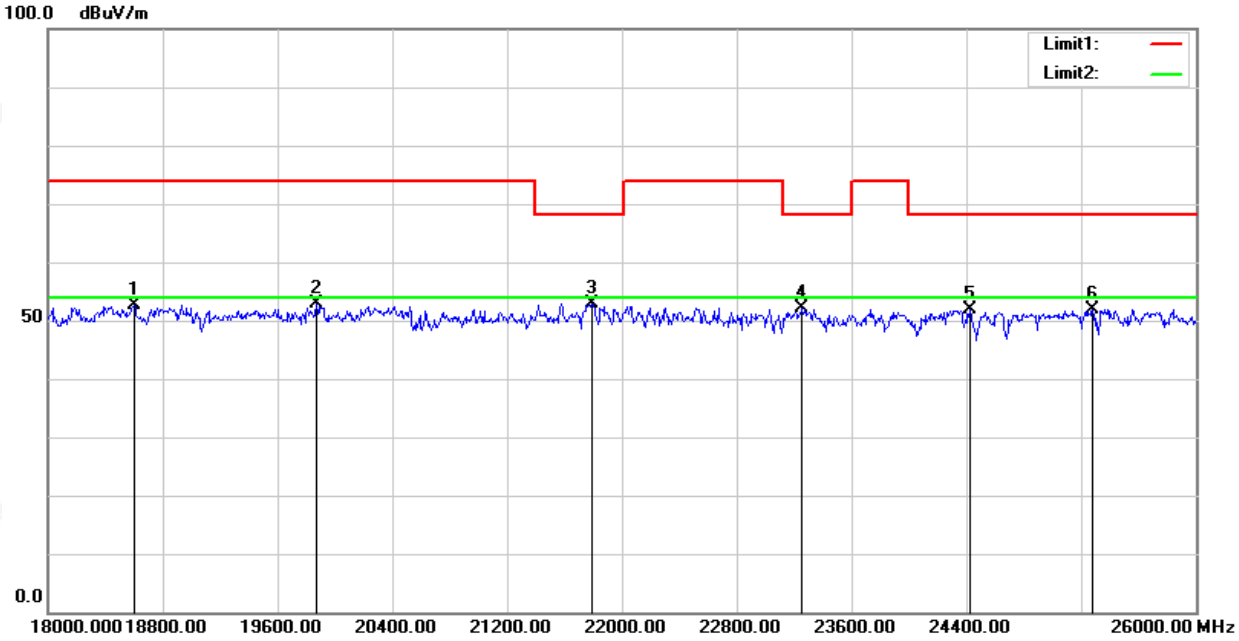
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	26770.000	45.88	6.36	52.24	68.20	-15.96	peak
2	29388.000	42.94	9.08	52.02	68.20	-16.18	peak
3	31306.000	42.69	9.09	51.78	54.00	-2.22	peak
4	33014.000	43.62	9.02	52.64	68.20	-15.56	peak
5	35968.000	43.32	9.36	52.68	68.20	-15.52	peak
6	37326.000	45.20	7.44	52.64	68.20	-15.56	peak

RSE-1G-18G-V



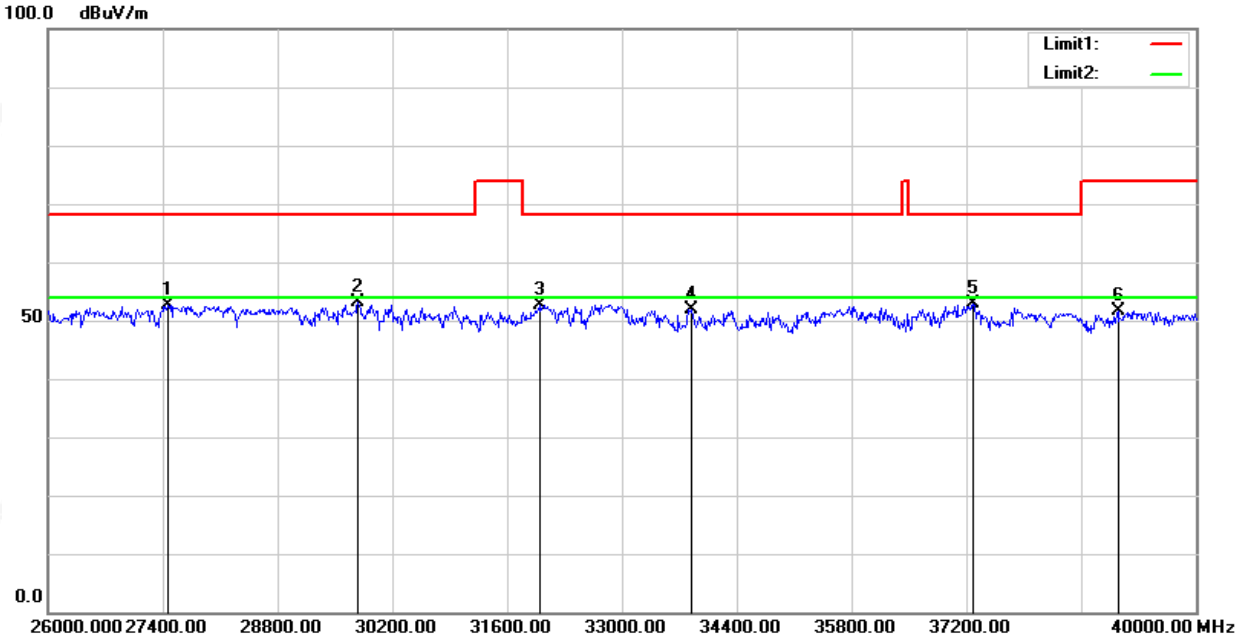
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2201.000	43.61	1.50	74.0	30.39	Peak	0.70	Vertical	Pass
1**	2201.000	32.50	1.50	54.0	21.50	AV	0.70	Vertical	Pass
2	2964.000	47.81	5.28	68.2	20.39	Peak	46.40	Vertical	Pass
2**	2964.000	36.83	5.28	54.0	17.17	AV	46.40	Vertical	Pass
3	9524.500	52.41	1.31	68.2	15.79	Peak	162.10	Vertical	Pass
3**	9524.500	41.69	1.31	54.0	12.31	AV	162.10	Vertical	Pass
4	10830.750	52.72	1.95	74.0	21.28	Peak	299.80	Vertical	Pass
4**	10830.750	42.03	1.95	54.0	11.97	AV	299.80	Vertical	Pass
5	13943.750	56.40	7.75	68.2	11.80	Peak	166.90	Vertical	Pass
5**	13943.750	46.32	7.75	54.0	7.68	AV	166.90	Vertical	Pass
6	17901.001	55.89	7.23	74.0	18.11	Peak	226.80	Vertical	Pass
6**	17901.001	45.84	7.23	54.0	8.16	AV	226.80	Vertical	Pass

RSE-18G-26G-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18600.000	50.59	2.15	52.74	54.00	-1.26	peak
2	19872.000	51.12	1.72	52.84	54.00	-1.16	peak
3	21792.000	49.75	3.22	52.97	68.20	-15.23	peak
4	23256.000	48.26	3.89	52.15	68.20	-16.05	peak
5	24424.000	47.15	4.70	51.85	68.20	-16.35	peak
6	25280.000	46.43	5.51	51.94	68.20	-16.26	peak

RSE-26G-40G-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	27456.000	45.83	6.87	52.70	68.20	-15.50	peak
2	29780.000	44.01	9.08	53.09	68.20	-15.11	peak
3	32006.000	43.39	9.24	52.63	68.20	-15.57	peak
4	33840.000	42.66	9.32	51.98	68.20	-16.22	peak
5	37284.000	45.48	7.48	52.96	68.20	-15.24	peak
6	39048.000	44.65	7.06	51.71	54.00	-2.29	peak

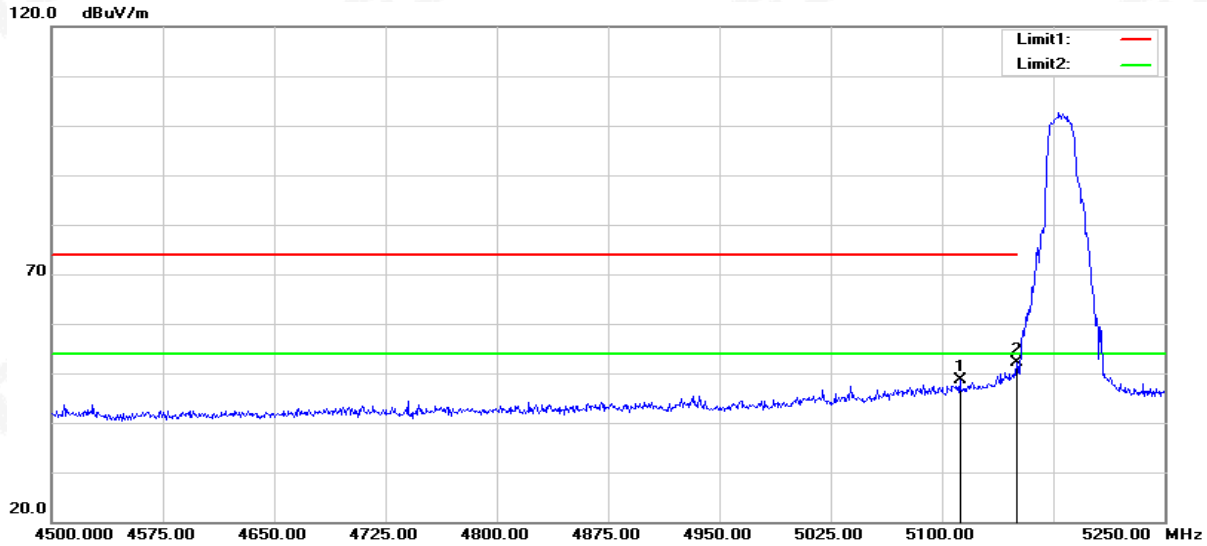
Note:

1) Factor = Antenna Factor + Cable Loss – Pre-amplifier.
   Emission Level = Reading + Factor.
2) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

3.2.9 TEST RESULTS(Band edge Requirements)

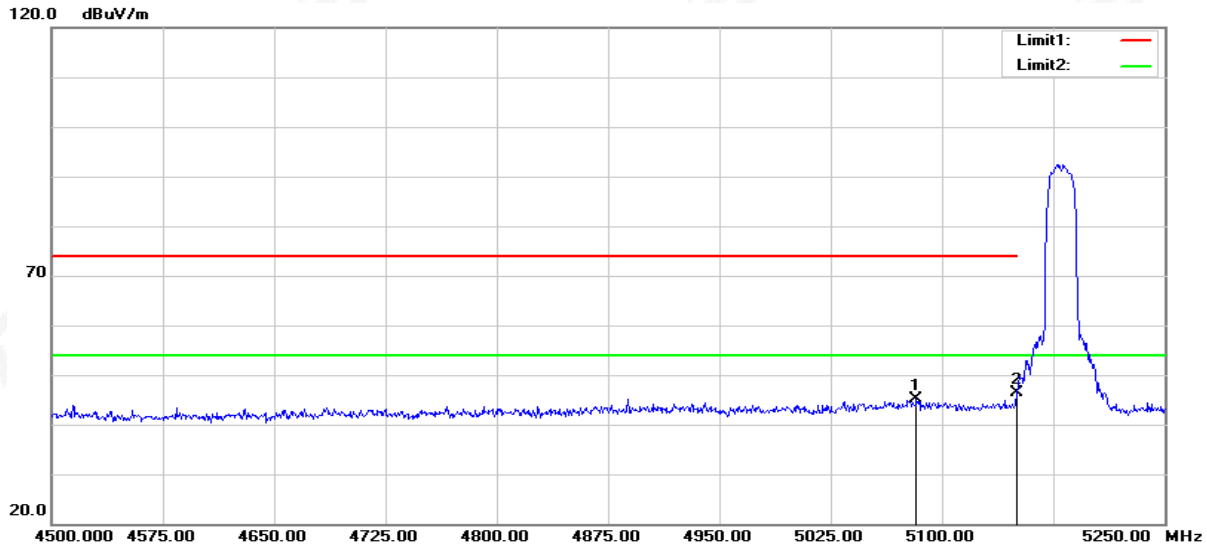
U-NII-1 (5.150-5.2500) GHz

802.11n20-L-H



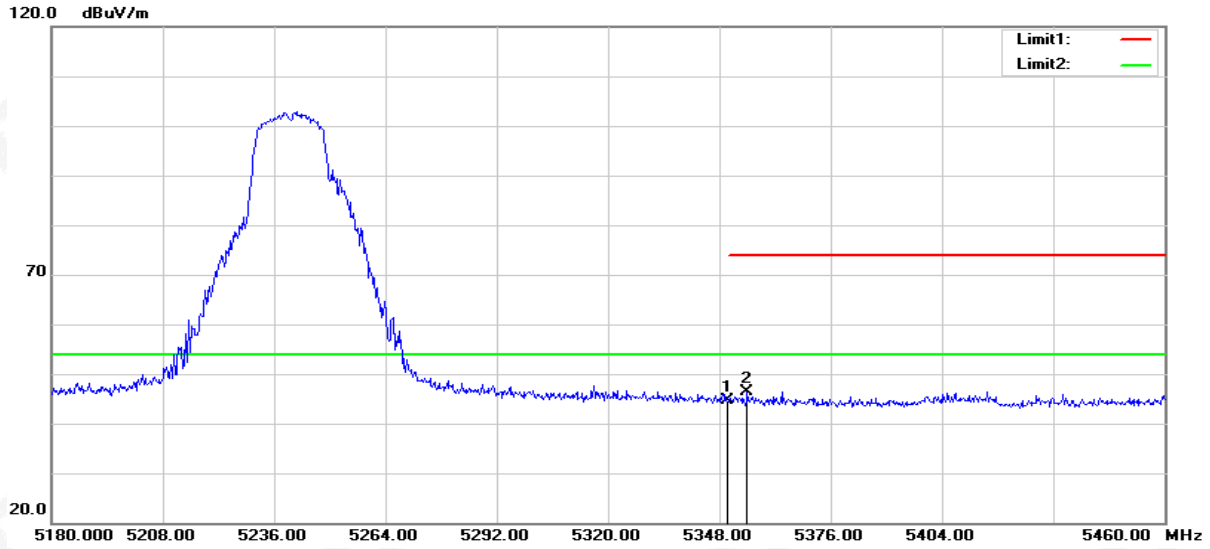
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5112.000	54.04	-5.53	48.51	54.00	-5.49	peak
2	5150.000	57.88	-5.77	52.11	54.00	-1.89	peak

802.11n20-L-V



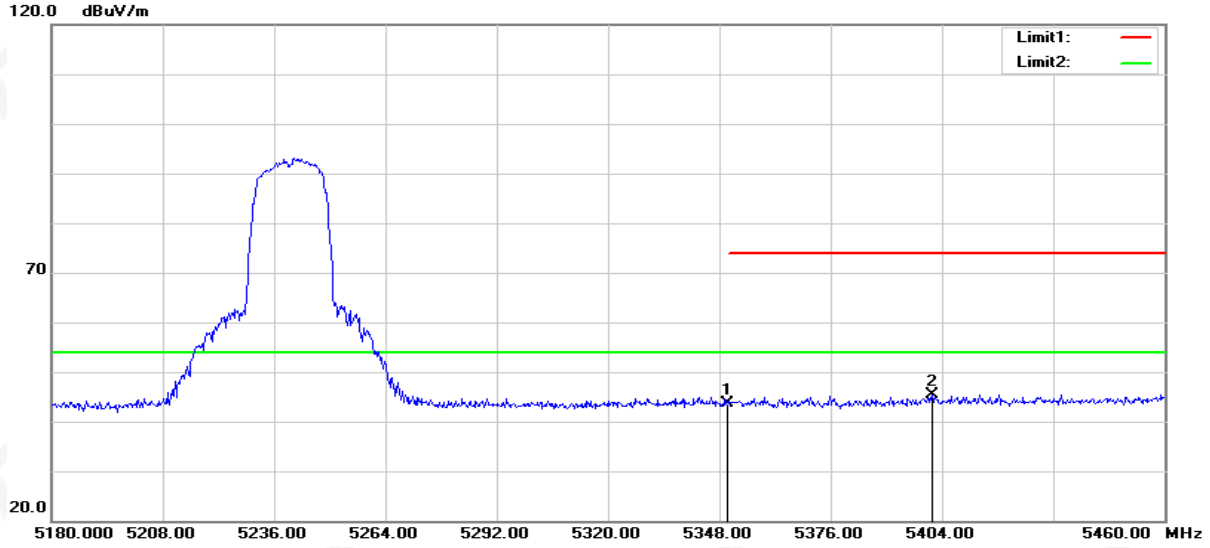
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5082.750	50.70	-5.53	45.17	54.00	-8.83	peak
2	5150.000	52.14	-5.77	46.37	54.00	-7.63	peak

802.11n20-H-H



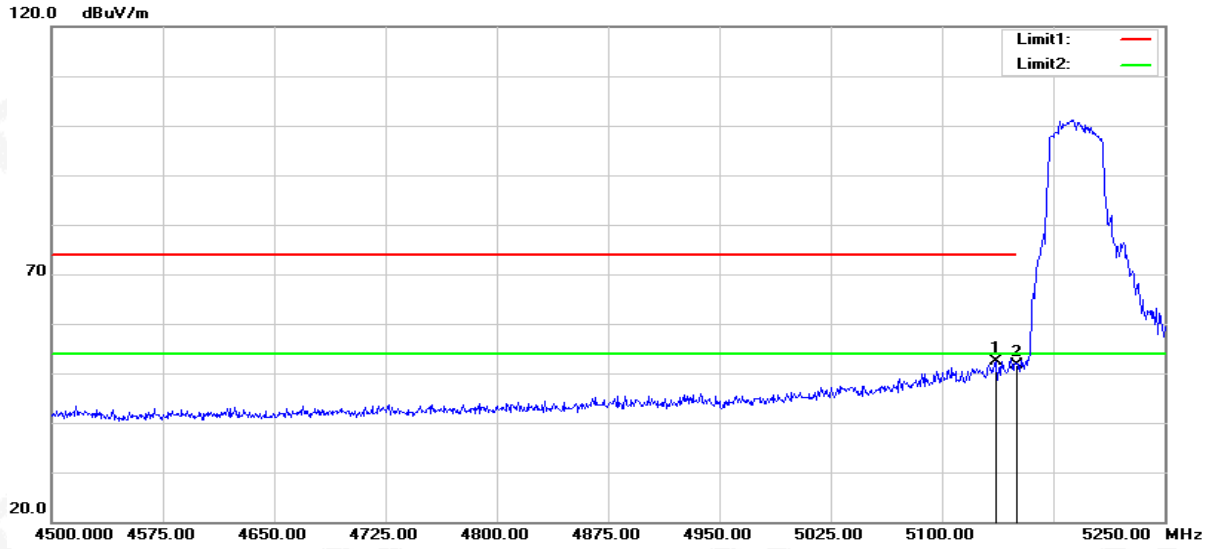
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	49.85	-5.33	44.52	54.00	-9.48	peak
2	5355.000	51.68	-5.31	46.37	54.00	-7.63	peak

802.11n20-H-V



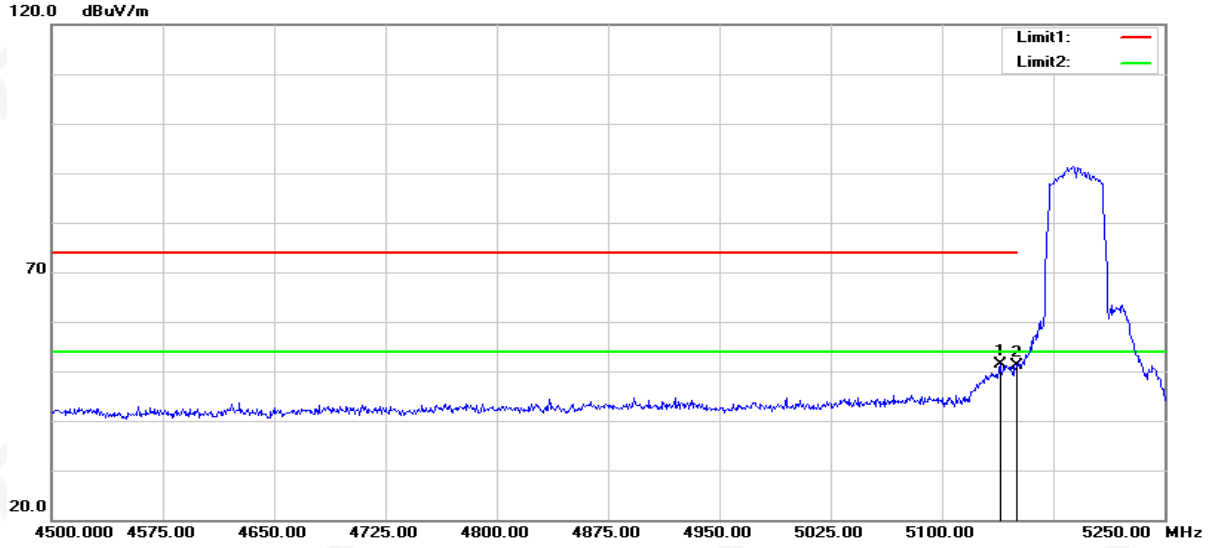
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	49.02	-5.33	43.69	54.00	-0.31	peak
2	5401.480	50.54	-5.08	45.46	54.00	-8.54	peak

802.11n40-L-H



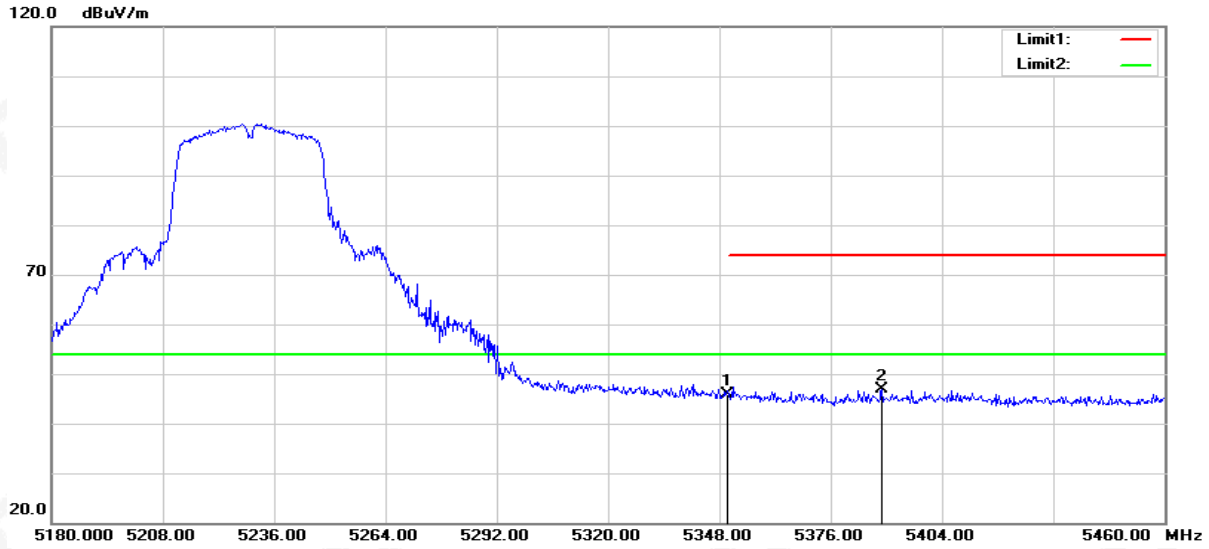
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5136.000	58.17	-5.68	52.49	54.00	-1.51	peak
2	5150.000	57.52	-5.77	51.75	54.00	-2.25	peak

802.11n40-L-V



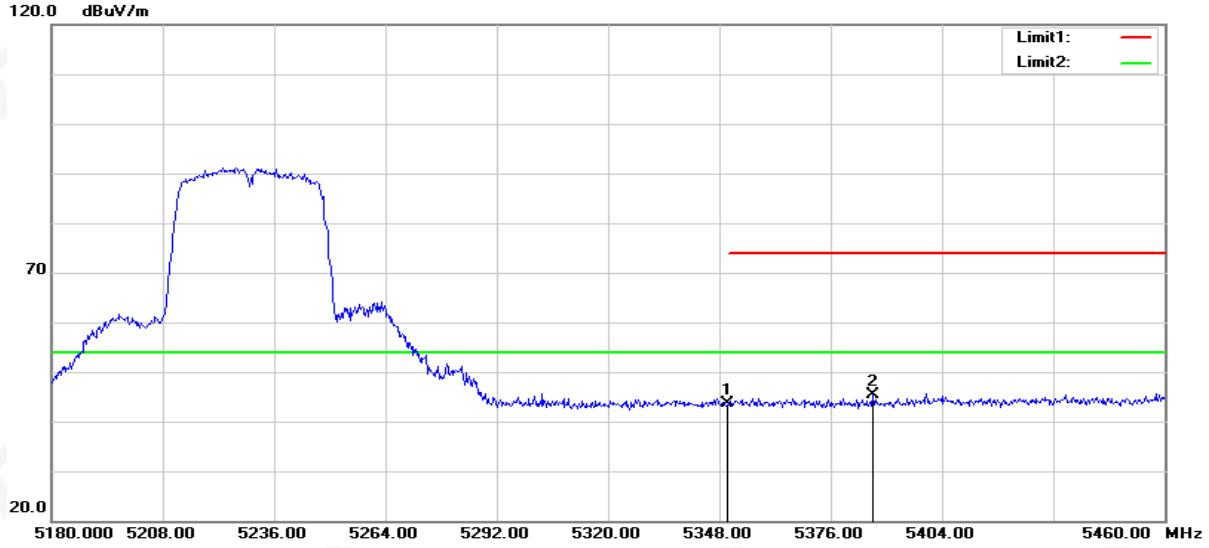
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5139.000	57.07	-5.70	51.37	54.00	-2.63	peak
2	5150.000	56.82	-5.77	51.05	54.00	-2.95	peak

802.11n40-H-H



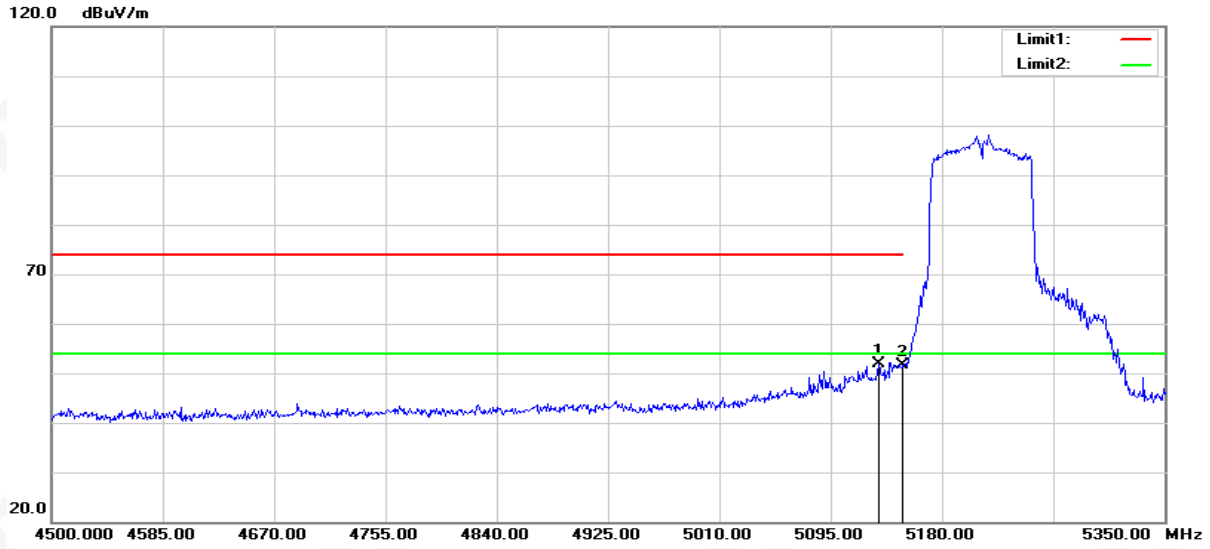
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	51.13	-5.33	45.80	54.00	-8.20	peak
2	5388.880	52.09	-5.14	46.95	54.00	-7.05	peak

802.11n40-H-V



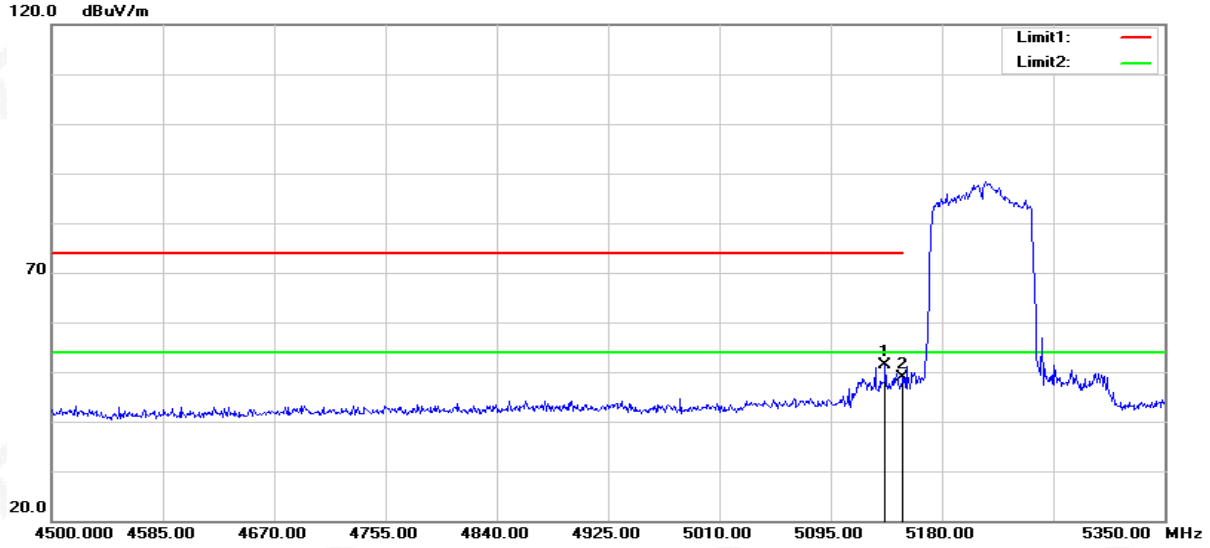
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	49.02	-5.33	43.69	54.00	-10.31	peak
2	5386.640	50.56	-5.15	45.41	54.00	-8.59	peak

802.11ac80-L-H



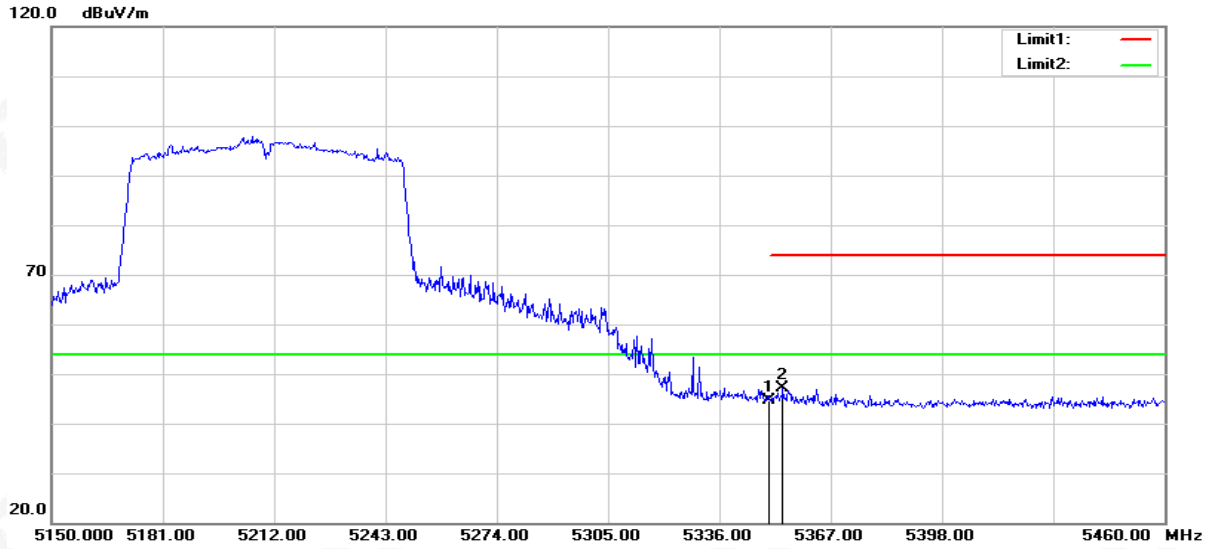
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5131.550	57.44	-5.65	51.79	54.00	-2.21	peak
2	5150.000	57.31	-5.77	51.54	54.00	-2.46	peak

802.11ac80-L-V



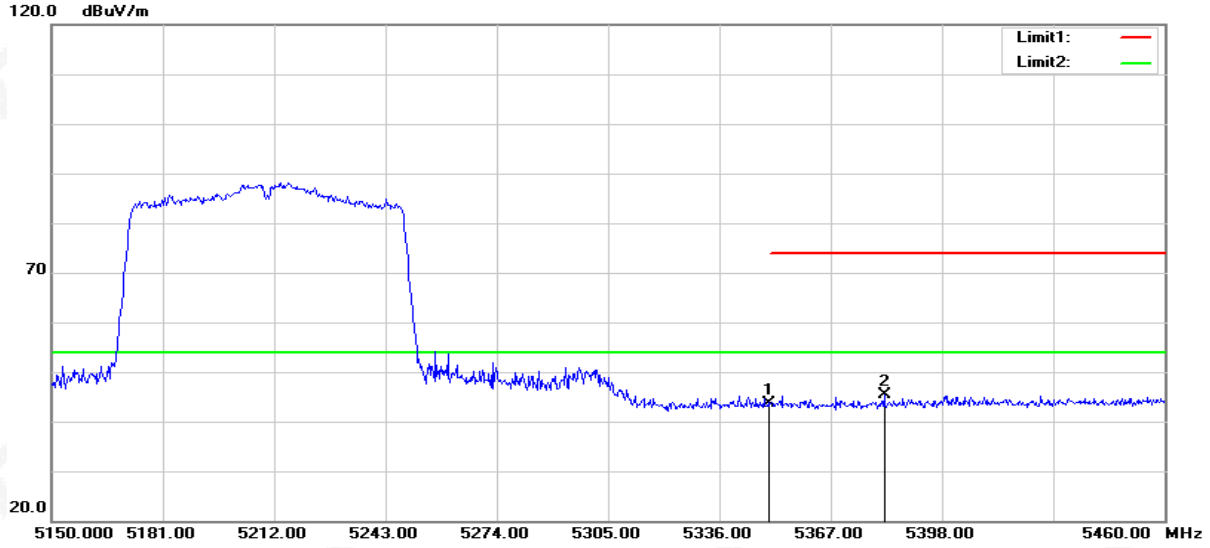
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5136.650	56.94	-5.68	51.26	54.00	-2.74	peak
2	5150.000	54.64	-5.77	48.87	54.00	-5.13	peak

802.11ac80-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	49.90	-5.33	44.57	54.00	-9.43	peak
2	5353.670	52.37	-5.32	47.05	54.00	-6.95	peak

802.11ac80-H-V

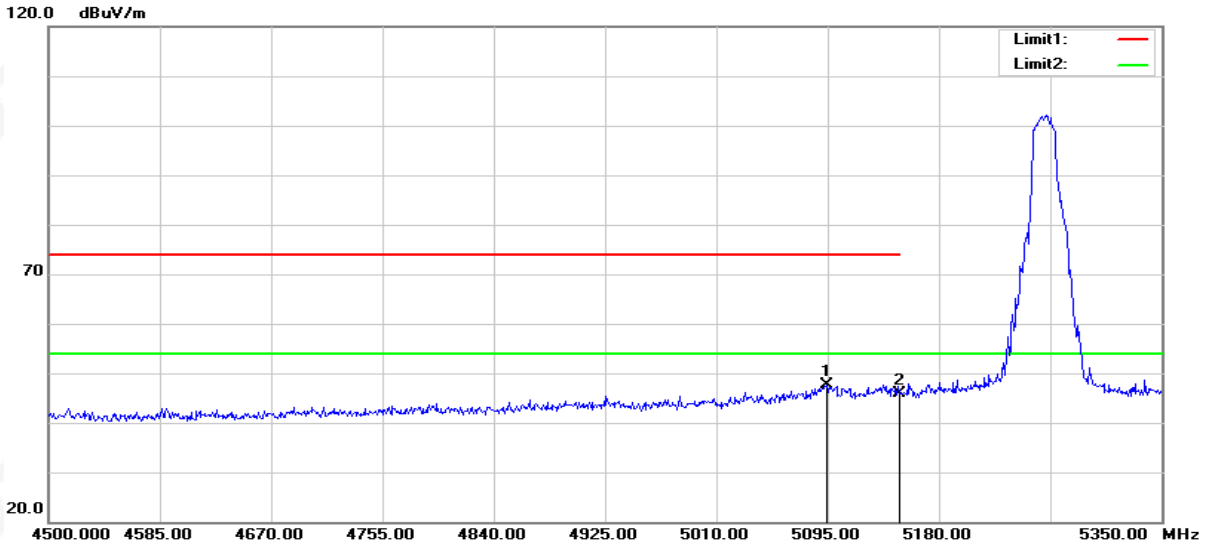


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	48.87	-5.33	43.54	54.00	-10.46	peak
2	5381.880	50.52	-5.17	45.35	54.00	-8.65	peak

Remark:
1.Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. All modes have been measured, only worst mode was reported.

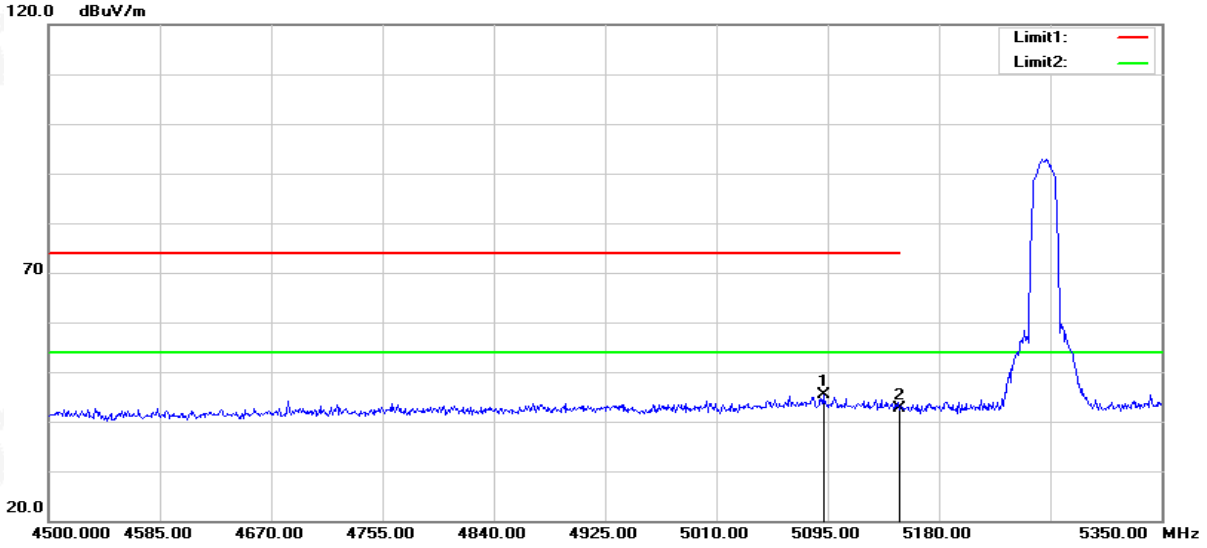
U-NII-2A (5.250-5.350) GHz

802.11n20-L-H



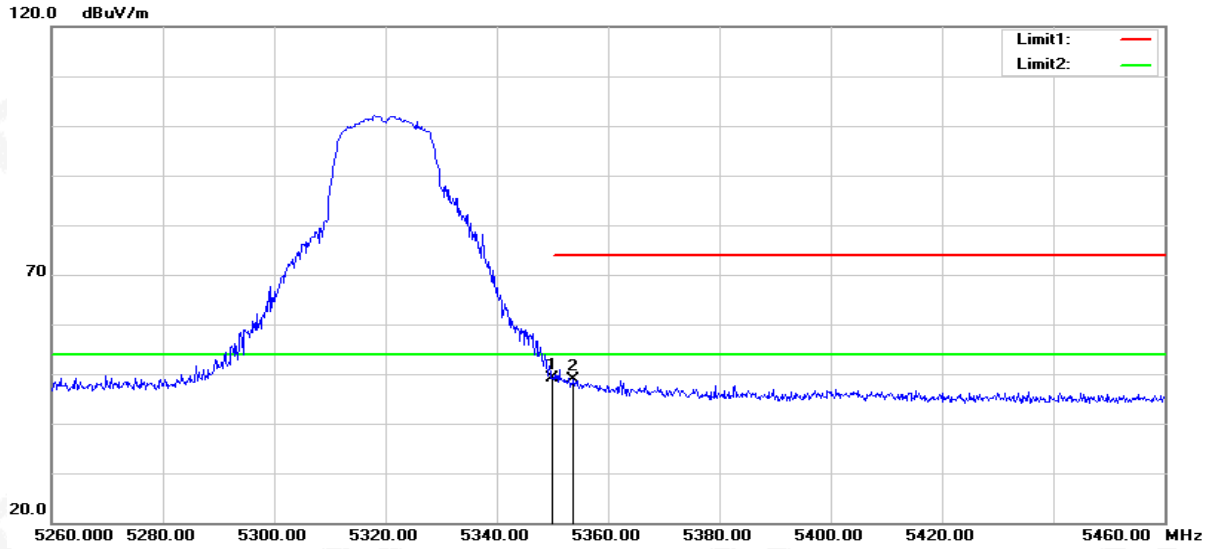
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5094.150	53.00	-5.47	47.53	54.00	-6.47	peak
2	5150.000	51.70	-5.77	45.93	54.00	-8.07	peak

802.11n20-L-V



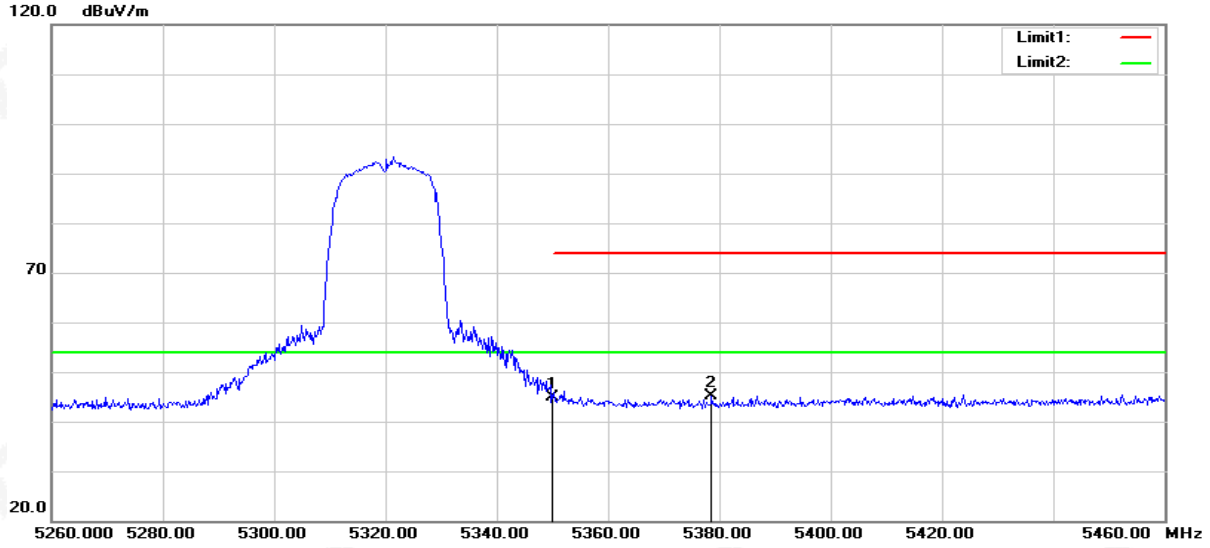
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5091.600	50.83	-5.49	45.34	54.00	-8.66	peak
2	5150.000	48.51	-5.77	42.74	54.00	-11.26	peak

802.11n20-H-H



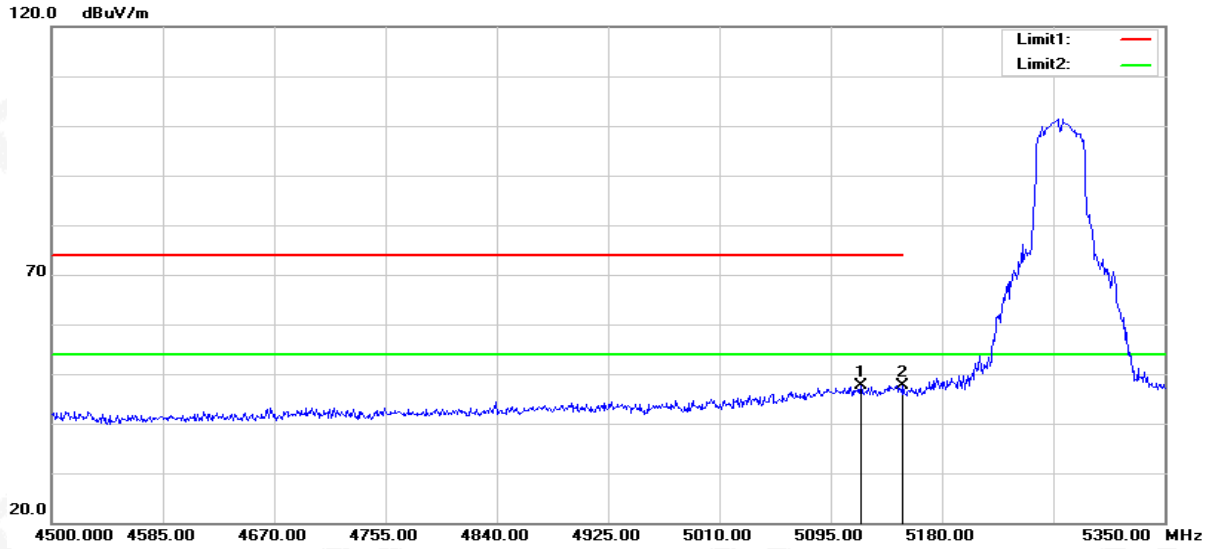
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.000	54.56	-5.33	49.23	54.00	-4.77	peak
2	5353.800	54.27	-5.31	48.96	54.00	-5.04	peak

802.11n20-H-V



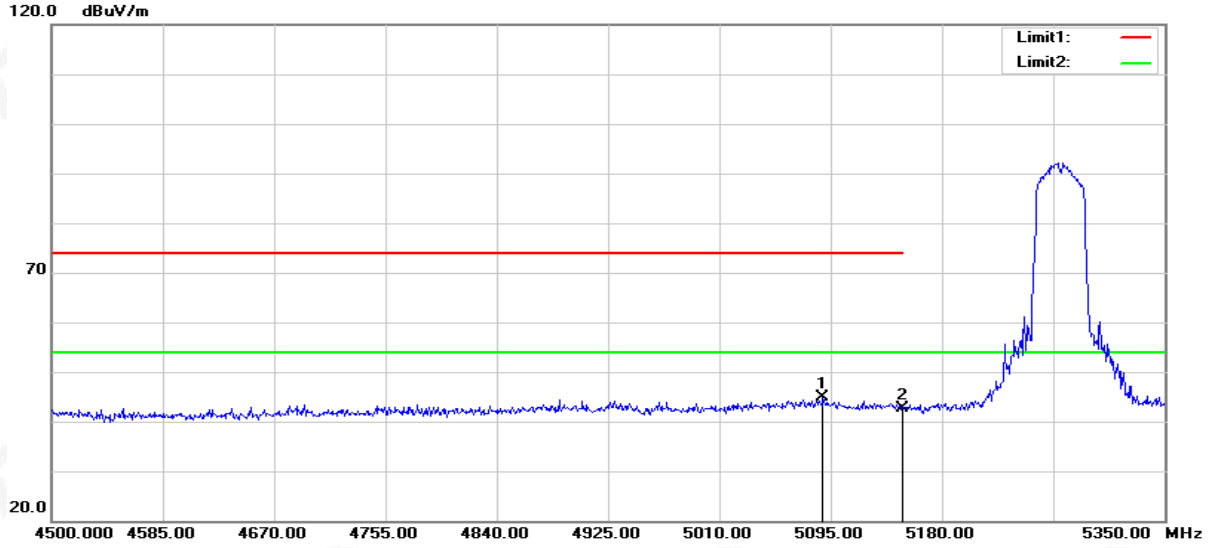
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.000	50.28	-5.33	44.95	54.00	-9.05	peak
2	5378.600	50.35	-5.20	45.15	54.00	-8.85	peak

802.11ac40-L-H



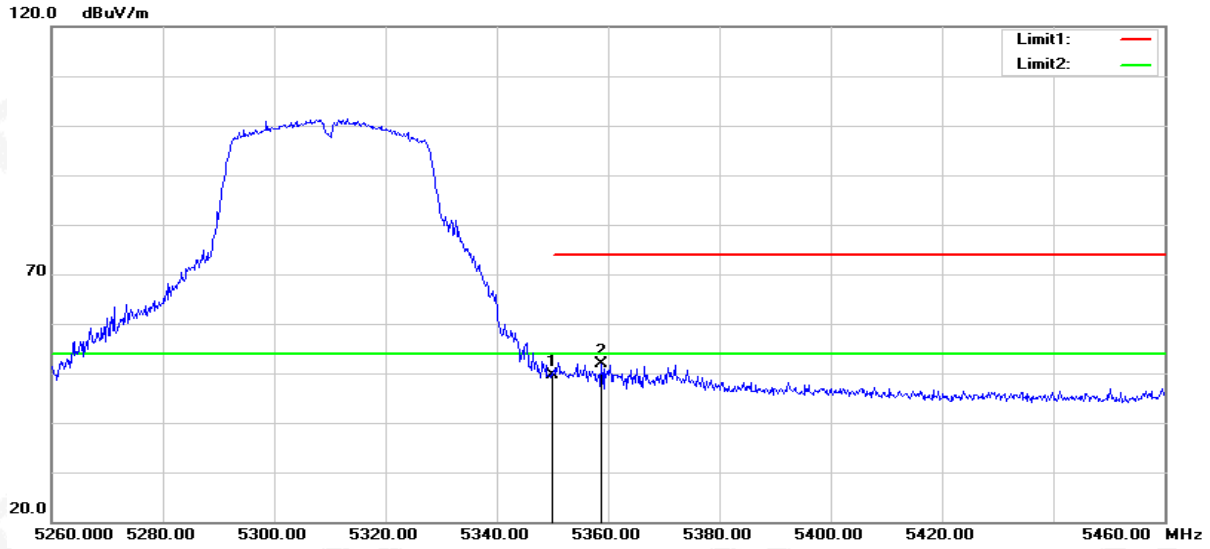
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5117.950	53.15	-5.57	47.58	54.00	-6.42	peak
2	5150.000	53.46	-5.77	47.69	54.00	-6.31	peak

802.11ac40-L-V



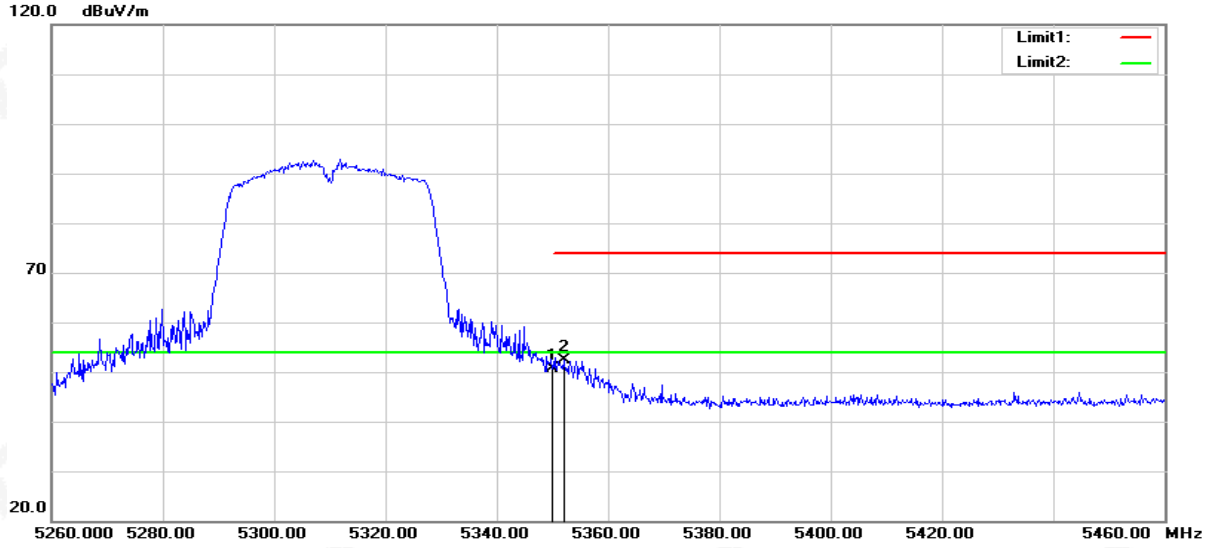
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5089.050	50.37	-5.50	44.87	54.00	-9.13	peak
2	5150.000	48.47	-5.77	42.70	54.00	-11.30	peak

802.11ac40-H-H



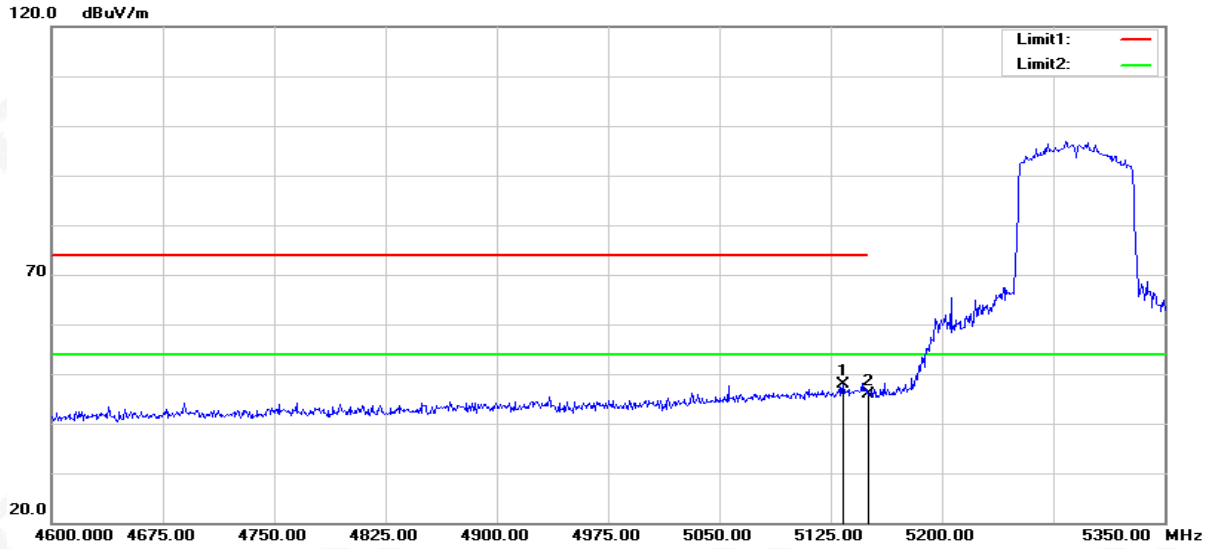
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	54.85	-5.33	49.52	54.00	-4.48	peak
2	5358.800	57.16	-5.28	51.88	54.00	-2.12	peak

802.11ac40-H-V



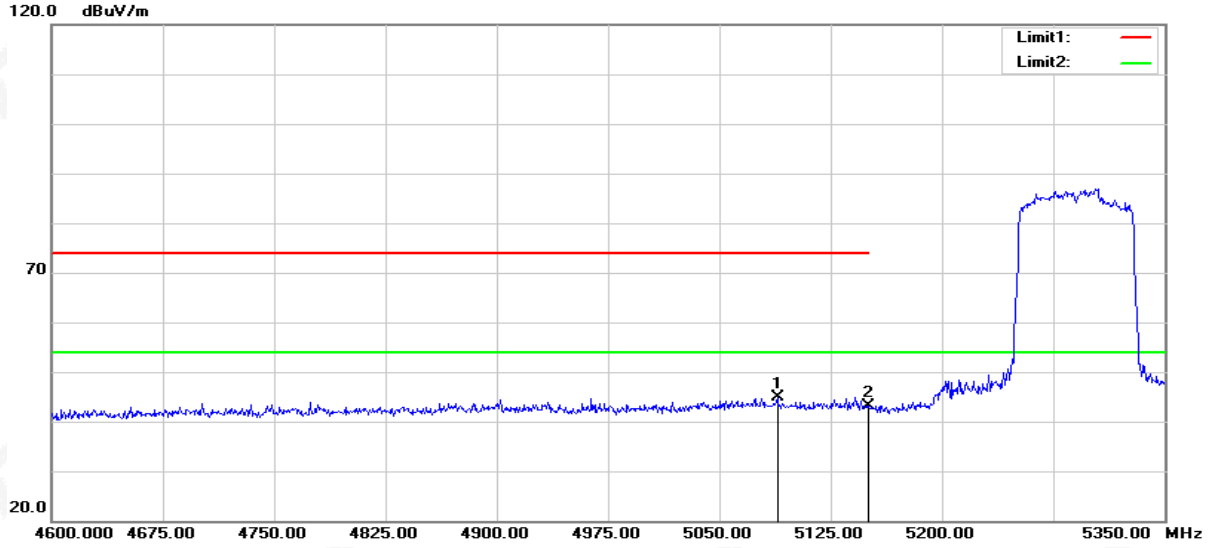
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	56.06	-5.33	50.73	54.00	-3.27	peak
2	5352.000	57.76	-5.32	52.44	54.00	-1.56	peak

802.11ac80-L-H



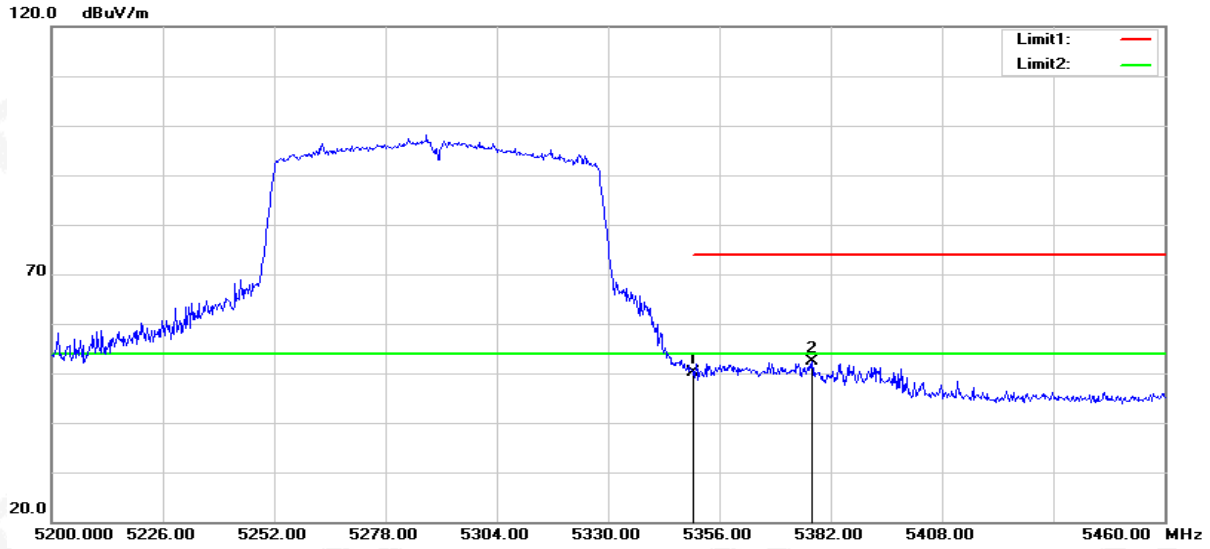
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5133.250	53.45	-5.66	47.79	54.00	-6.21	peak
2	5150.000	51.54	-5.77	45.77	54.00	-8.23	peak

802.11ac80-L-V



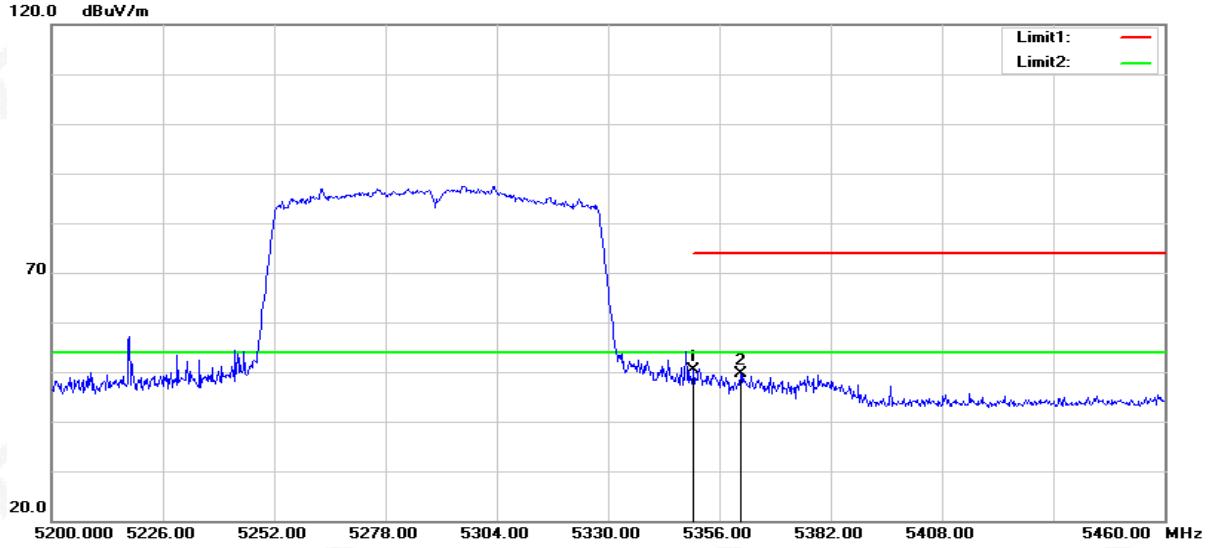
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5089.000	50.45	-5.51	44.94	54.00	-9.06	peak
2	5150.000	48.95	-5.77	43.18	54.00	-10.82	peak

802.11ac80-H-H



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.000	55.53	-5.33	50.20	54.00	-3.80	peak
2	5377.580	57.64	-5.20	52.44	54.00	-1.56	peak

802.11ac80-H-V

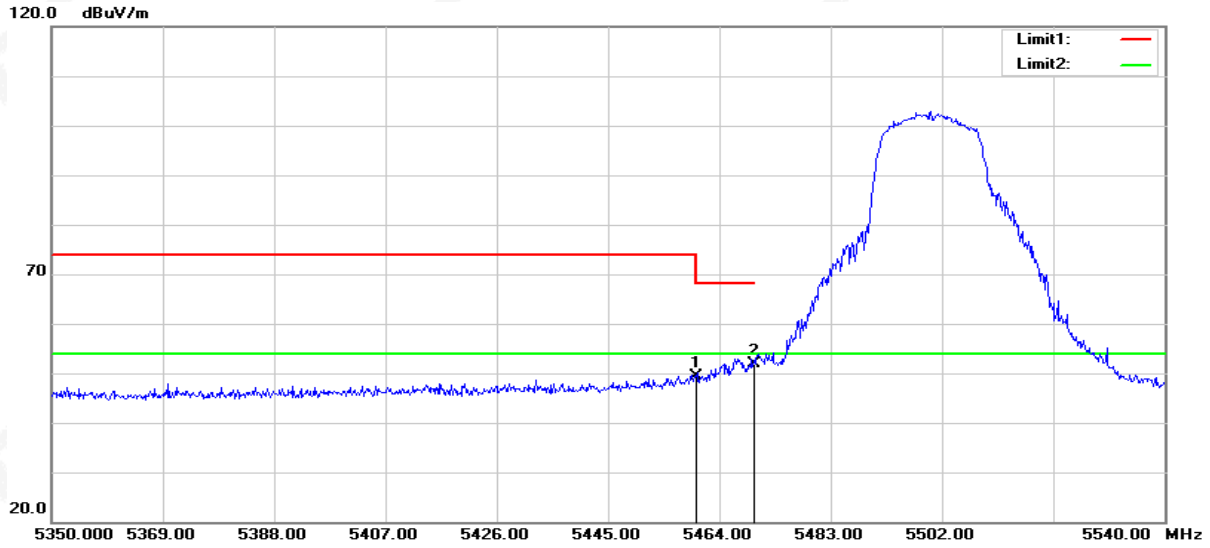


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.000	55.70	-5.33	50.37	54.00	-3.63	peak
2	5360.940	54.80	-5.28	49.52	54.00	-4.48	peak

Remark:
1.Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. All modes have been measured, only worst mode was reported.

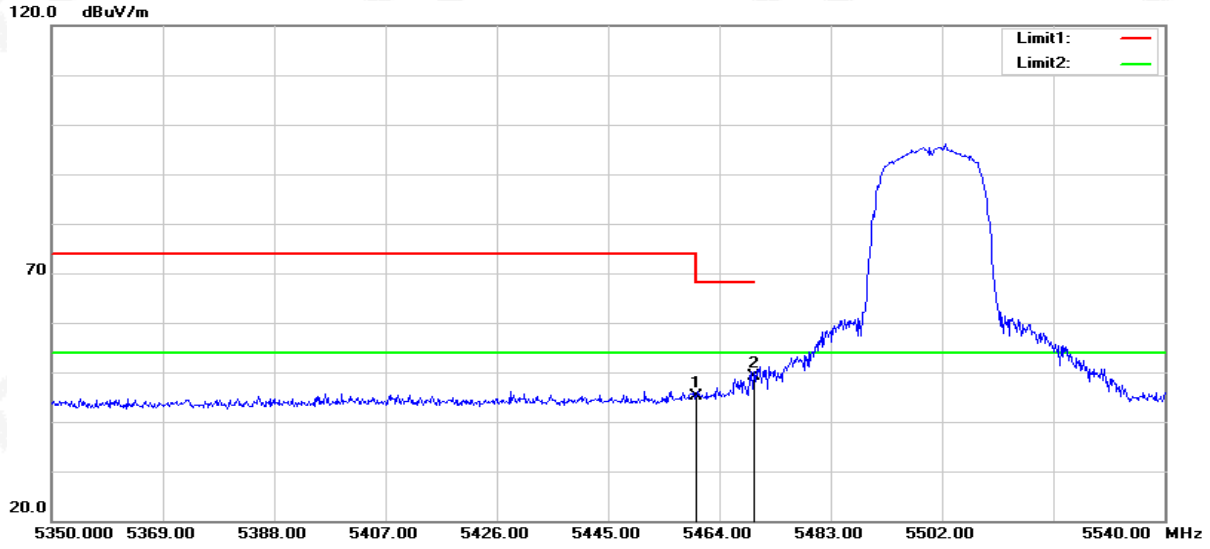
U-NII-2C (5.470-5.7250) GHz

802.11n20-L-H



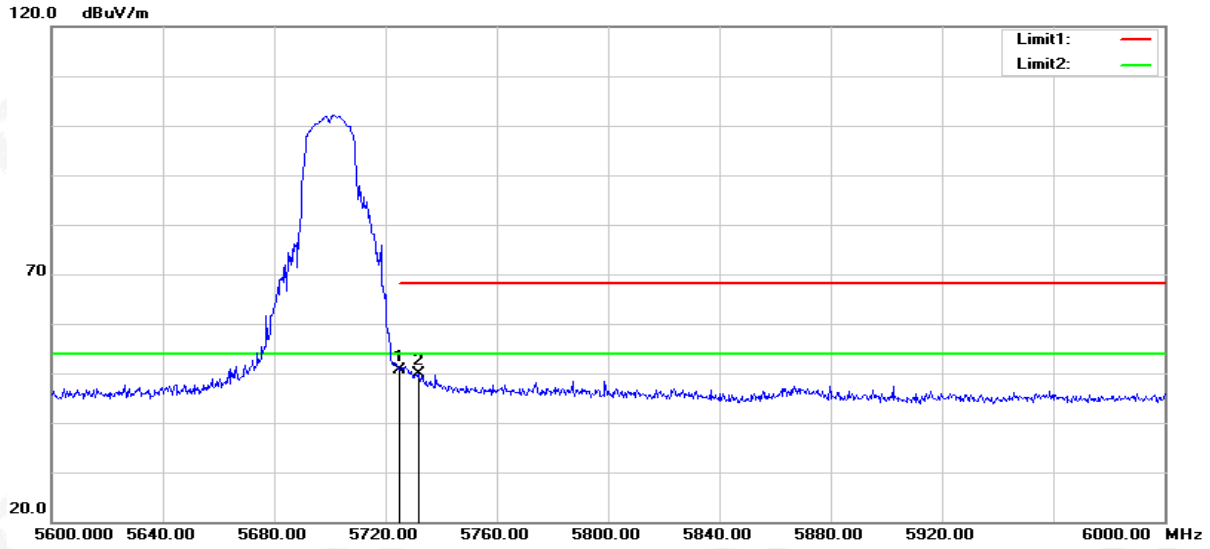
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5460.000	54.20	-4.82	49.38	68.20	-18.82	peak
2	5470.000	56.71	-4.78	51.93	68.20	-16.27	peak

802.11n20-L-V



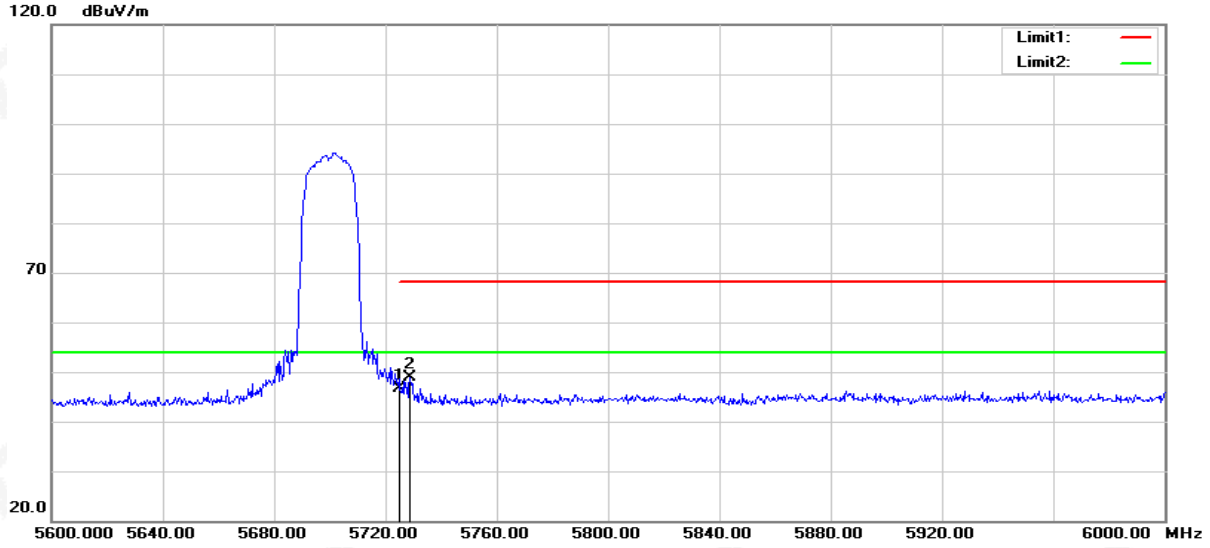
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5460.000	49.84	-4.82	45.02	68.20	-23.18	peak
2	5470.000	53.92	-4.78	49.14	68.20	-19.06	peak

802.11n20-H-H



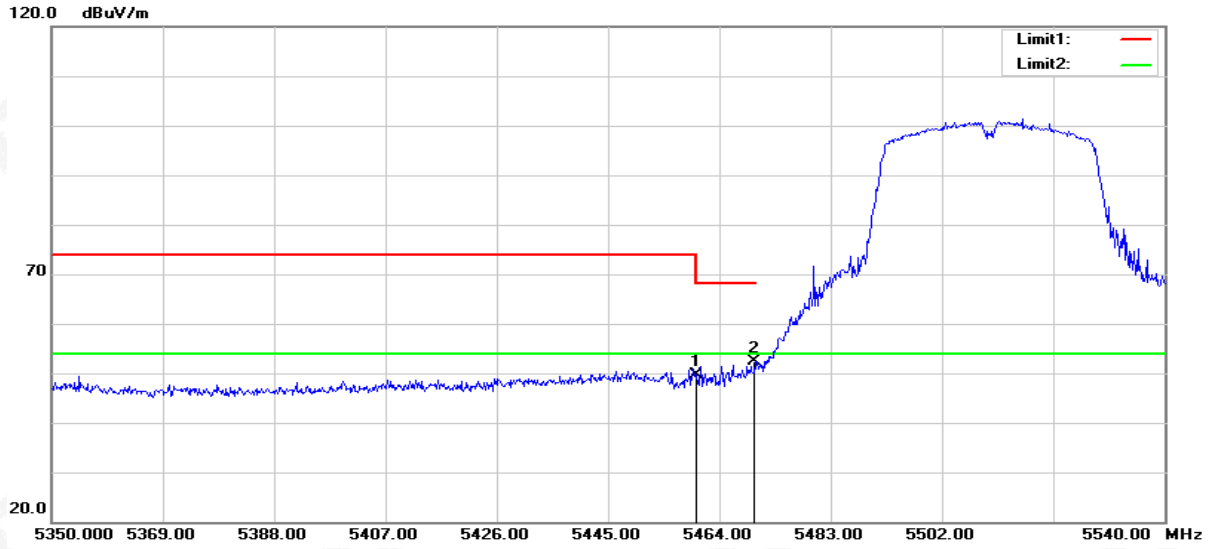
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5725.000	55.22	-4.48	50.74	68.20	-17.46	peak
2	5732.000	54.21	-4.44	49.77	68.20	-18.43	peak

802.11n20-H-V



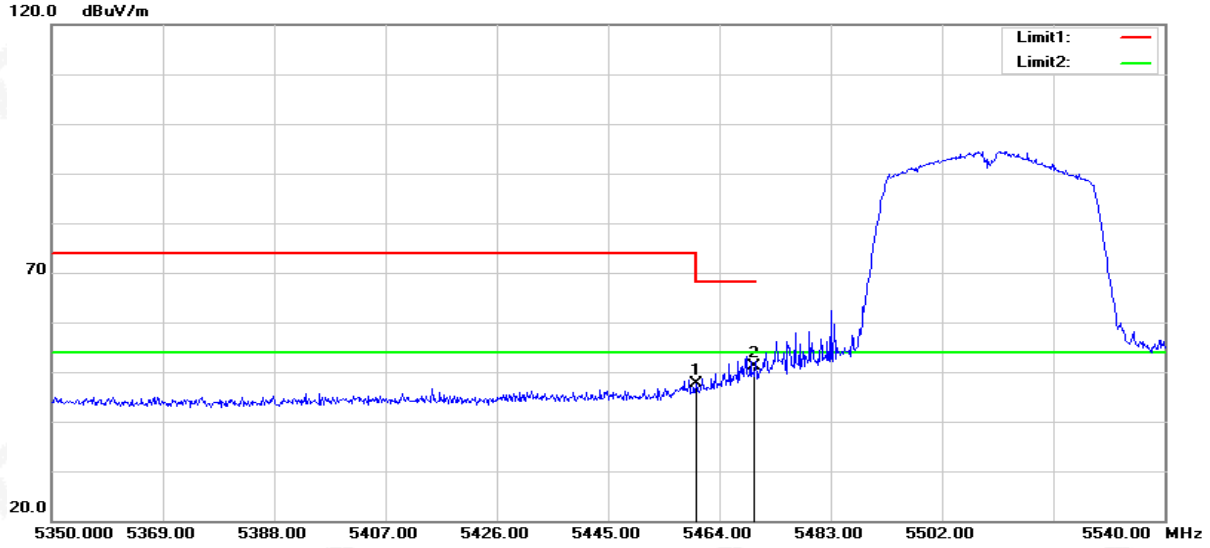
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5725.000	50.99	-4.48	46.51	68.20	-21.69	peak
2	5728.800	53.26	-4.46	48.80	68.20	-19.40	peak

802.11ac40-L-H



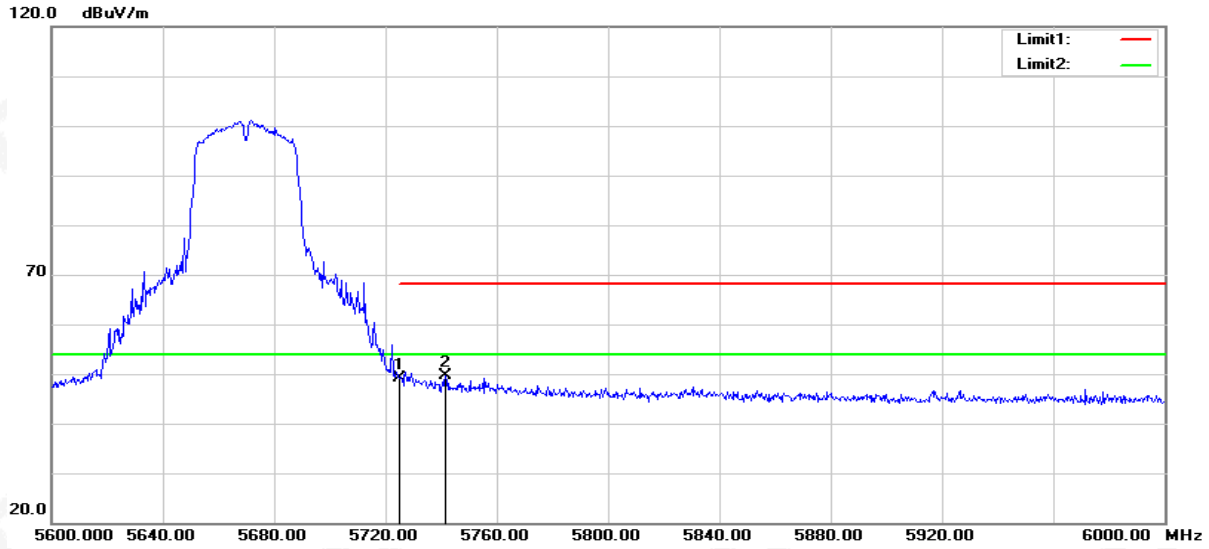
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5460.000	54.49	-4.82	49.67	68.20	-18.53	peak
2	5470.000	57.08	-4.78	52.30	68.20	-15.90	peak

802.11ac40-L-V



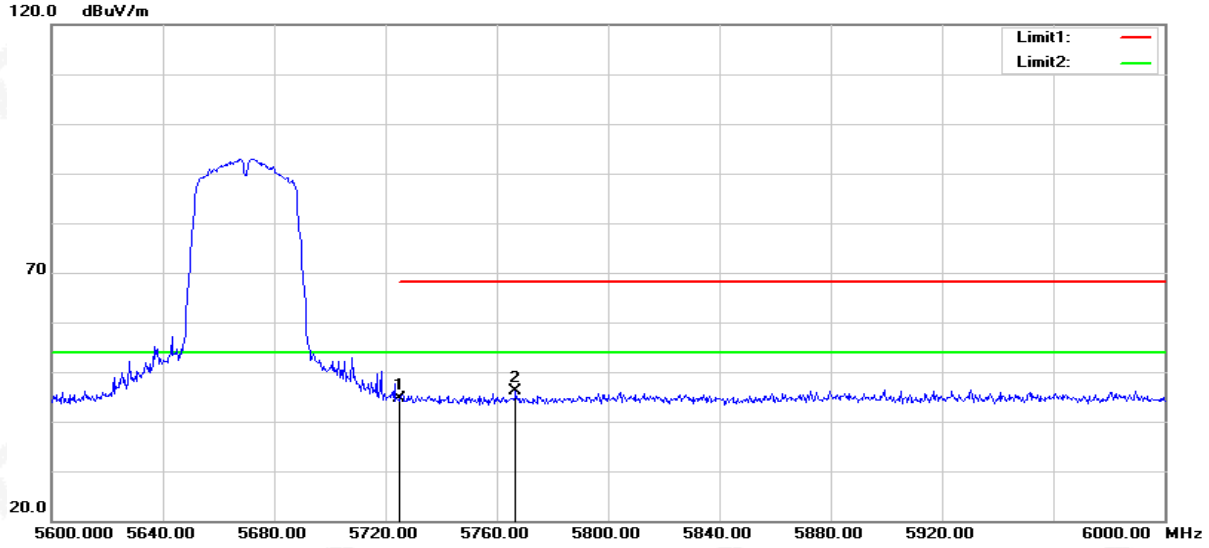
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5460.000	52.37	-4.82	47.55	68.20	-20.65	peak
2	5470.000	55.92	-4.78	51.14	68.20	-17.06	peak

802.11ac40-H-H



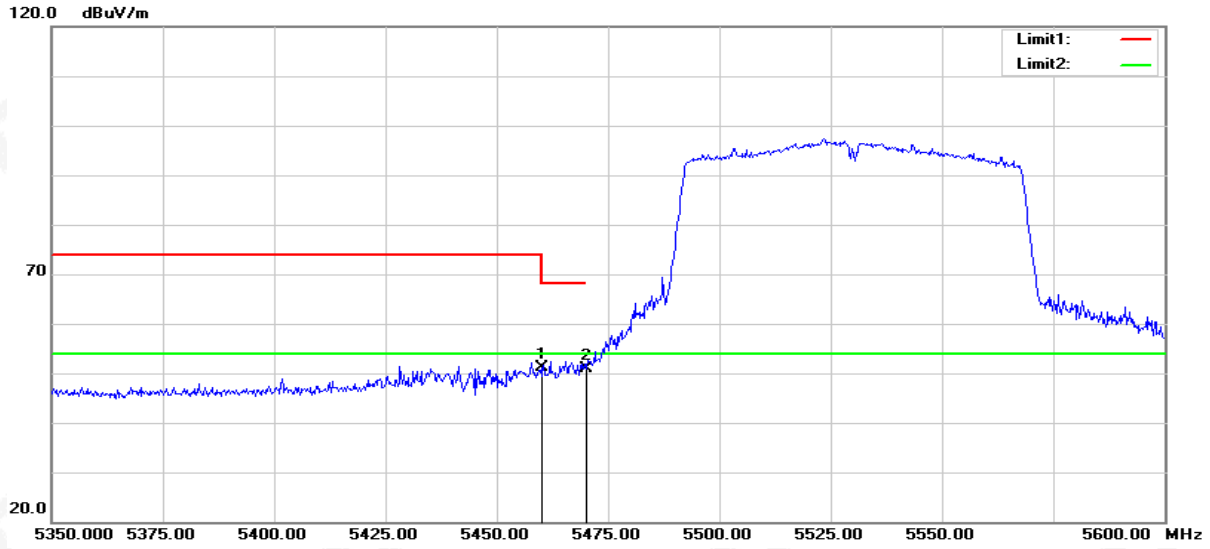
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5725.000	53.68	-4.48	49.20	68.20	-19.00	peak
2	5741.600	54.09	-4.38	49.71	68.20	-18.49	peak

802.11ac40-H-V



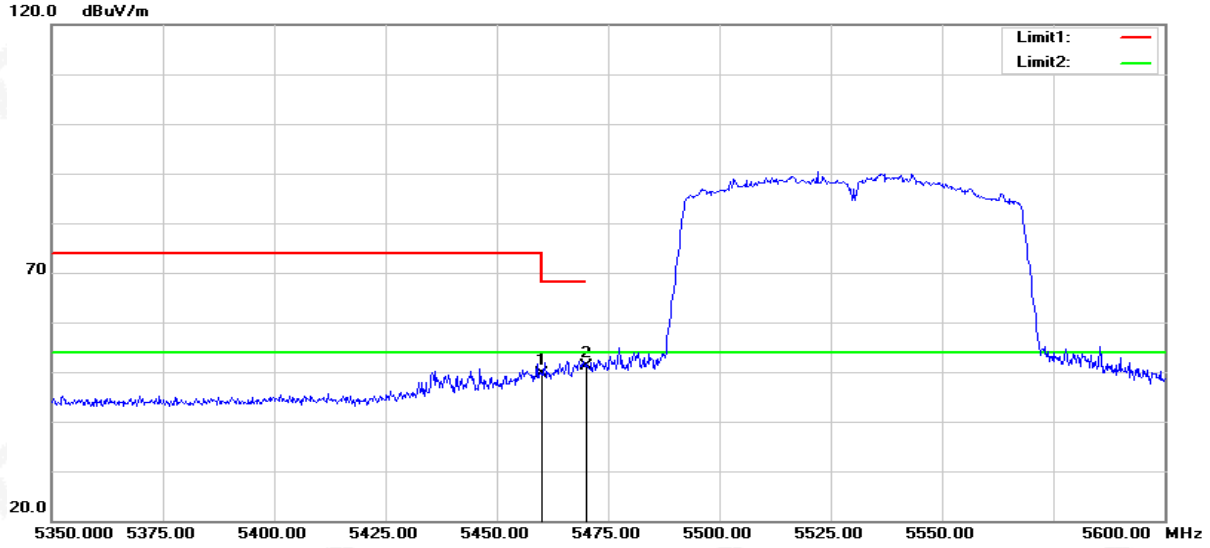
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5725.000	49.02	-4.48	44.54	68.20	-23.66	peak
2	5766.800	50.25	-4.22	46.03	68.20	-22.17	peak

802.11ac80-L-H



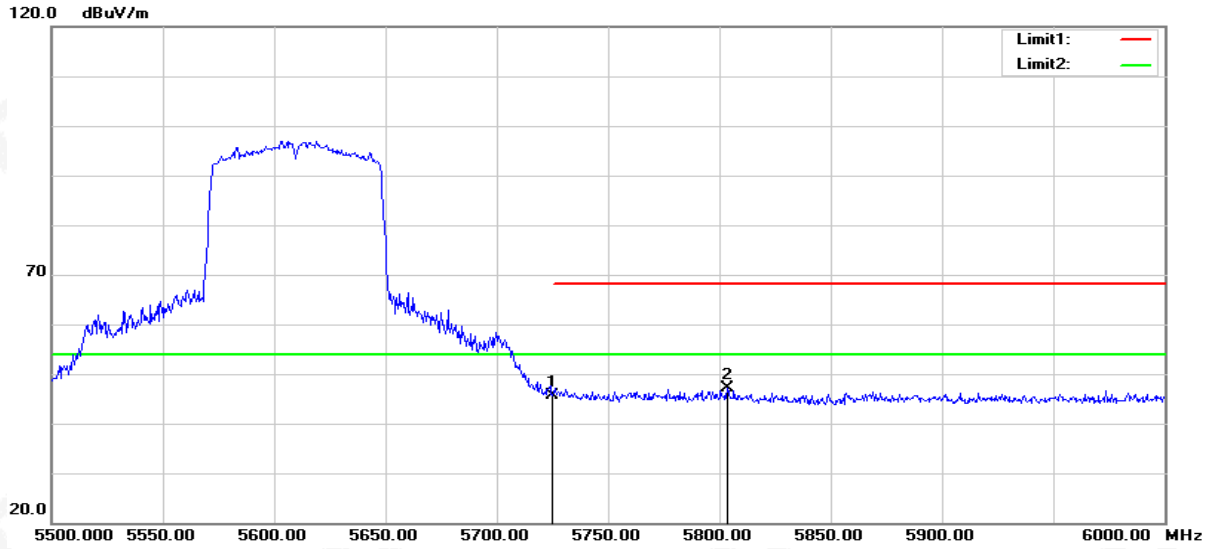
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5460.000	56.01	-4.82	51.19	68.20	-17.01	peak
2	5470.000	55.62	-4.78	50.84	68.20	-17.36	peak

802.11ac80-L-V



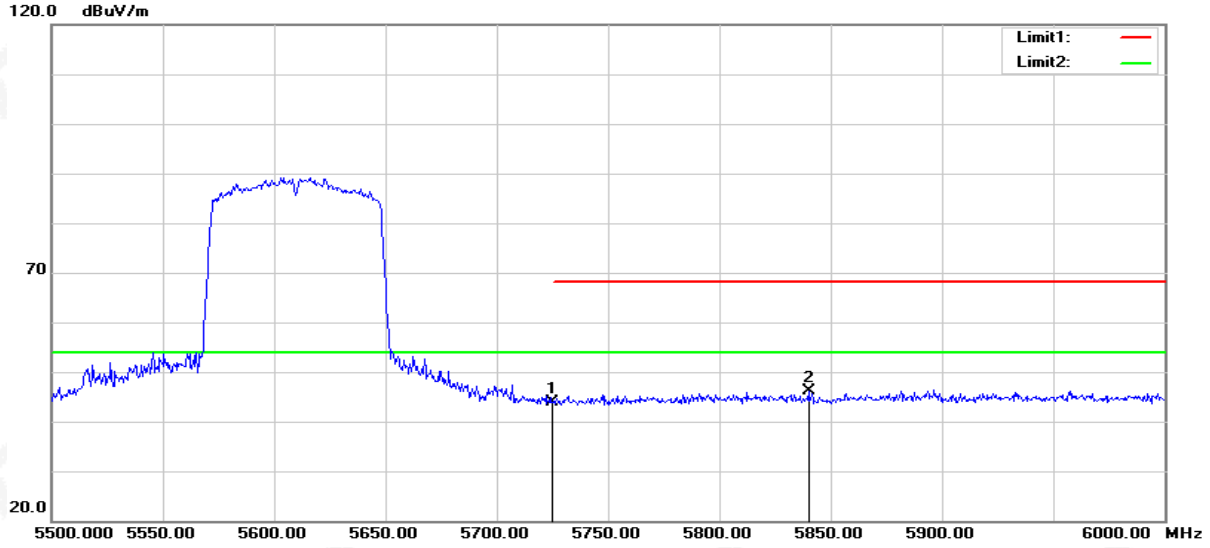
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5460.000	54.56	-4.82	49.74	68.20	-18.46	peak
2	5470.000	55.80	-4.78	51.02	68.20	-17.18	peak

802.11ac80-H-H



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5725.000	50.11	-4.48	45.63	68.20	-22.57	peak
2	5803.500	51.04	-4.00	47.04	68.20	-21.16	peak

802.11ac80-H-V

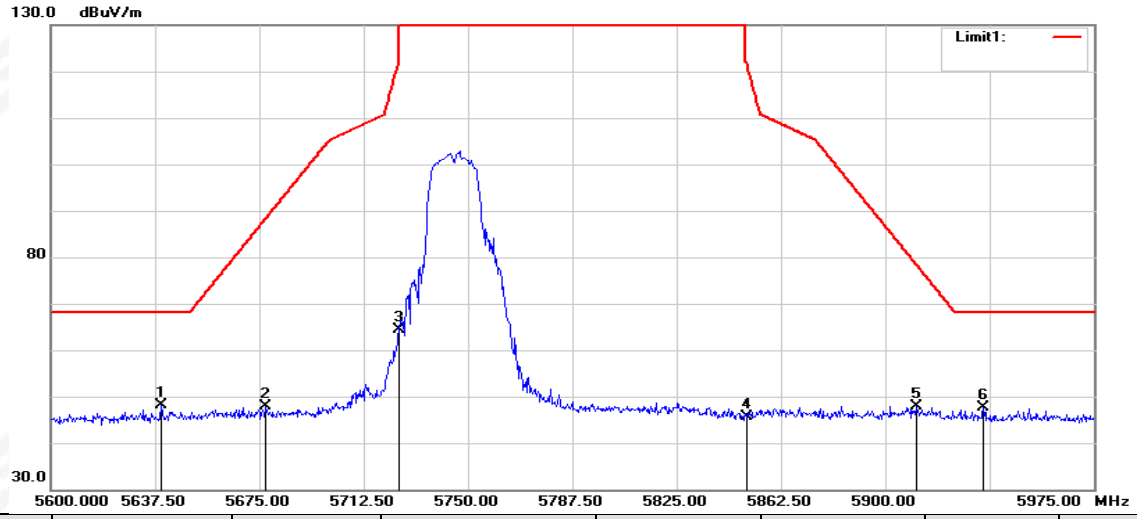


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5725.000	48.41	-4.48	43.93	68.20	-24.27	peak
2	5840.000	49.96	-3.86	46.10	68.20	-22.10	peak

Remark:
1.Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. All modes have been measured, only worst mode was reported.

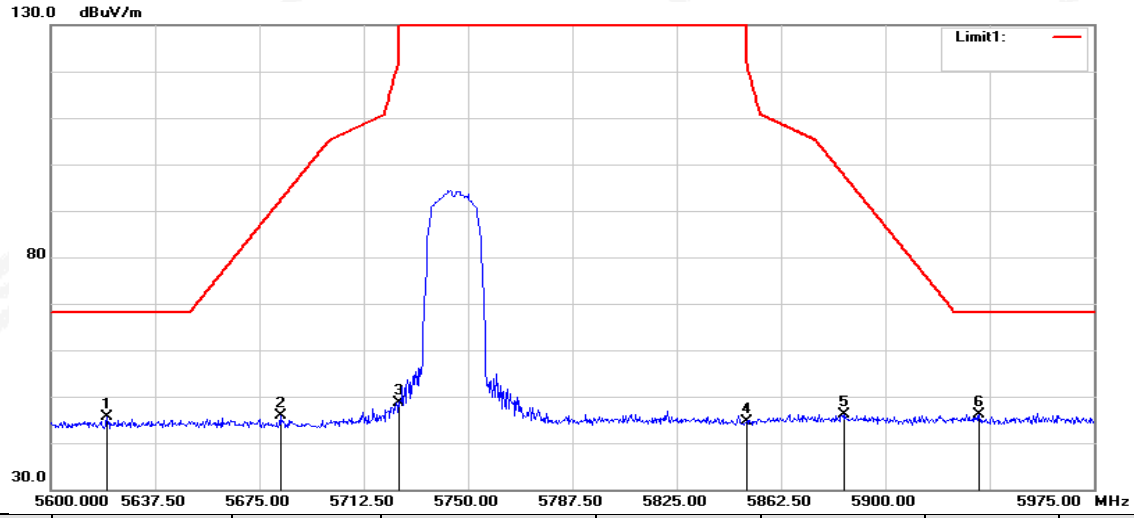
U-NII-3 (5.725-5.850) GHz

802.11n20-L-H



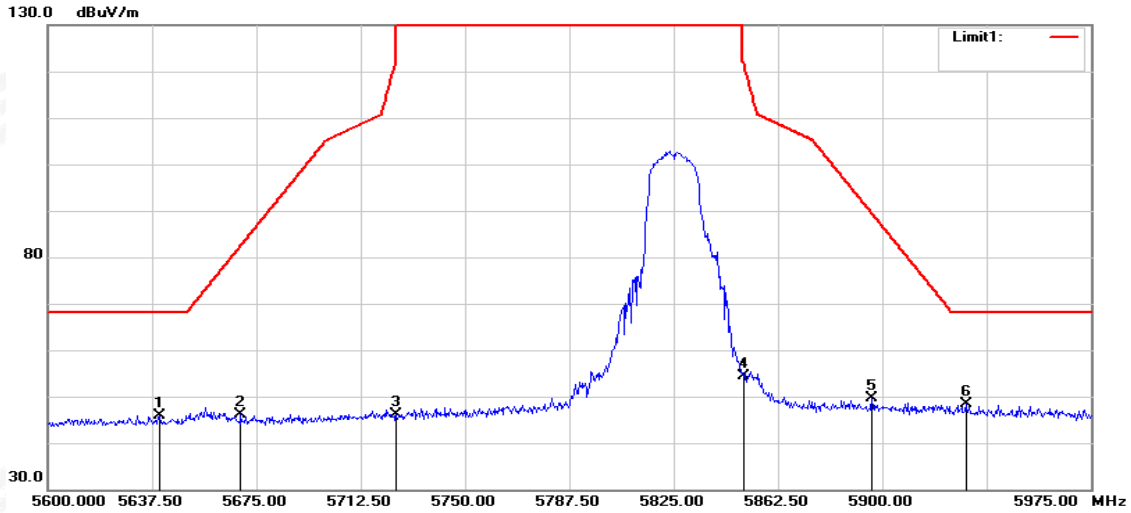
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5639.750	52.78	-4.76	48.02	68.20	-20.18	peak
2	5677.250	52.46	-4.69	47.77	88.37	-40.60	peak
3	5725.000	68.81	-4.48	64.33	122.20	-57.87	peak
4	5850.000	49.50	-3.82	45.68	122.20	-76.52	peak
5	5911.250	51.58	-3.60	47.98	78.38	-30.40	peak
6	5935.250	51.28	-3.57	47.71	68.20	-20.49	peak

802.11n20-L-V



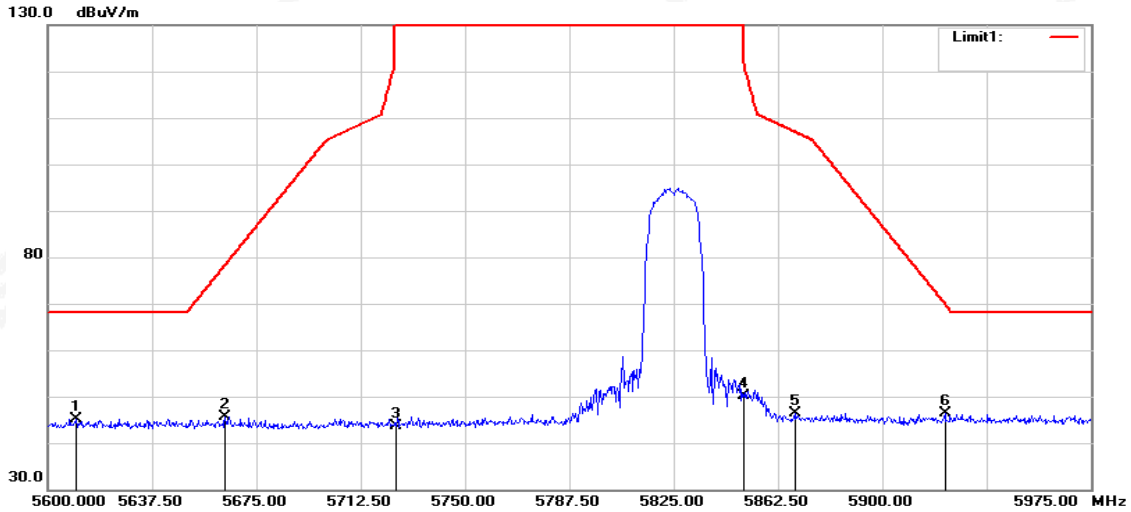
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5620.250	50.48	-4.80	45.68	68.20	-22.52	peak
2	5682.500	50.57	-4.68	45.89	92.25	-46.36	peak
3	5725.000	53.17	-4.48	48.69	122.20	-73.51	peak
4	5850.000	48.39	-3.82	44.57	122.20	-77.63	peak
5	5885.000	49.87	-3.68	46.19	97.80	-51.61	peak
6	5933.750	49.73	-3.58	46.15	68.20	-22.05	peak

802.11n20-H-H



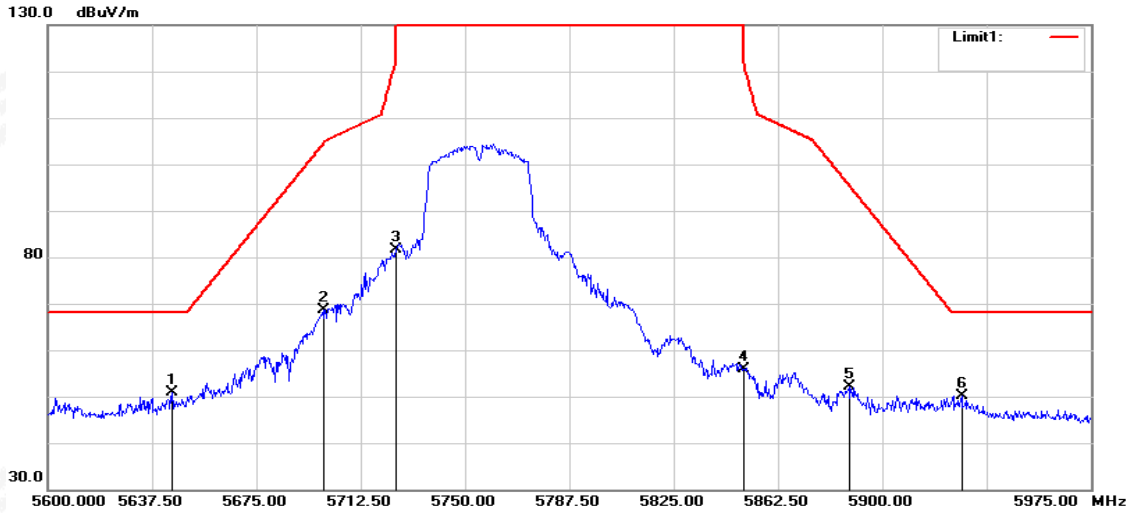
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5640.125	50.75	-4.76	45.99	68.20	-22.21	peak
2	5669.375	50.76	-4.70	46.06	82.54	-36.48	peak
3	5725.000	50.50	-4.48	46.02	122.20	-76.18	peak
4	5850.000	58.18	-3.82	54.36	122.20	-67.84	peak
5	5896.250	53.16	-3.64	49.52	89.48	-39.96	peak
6	5909.000	52.35	-3.61	48.74	68.20	-19.75	peak

802.11n20-H-V



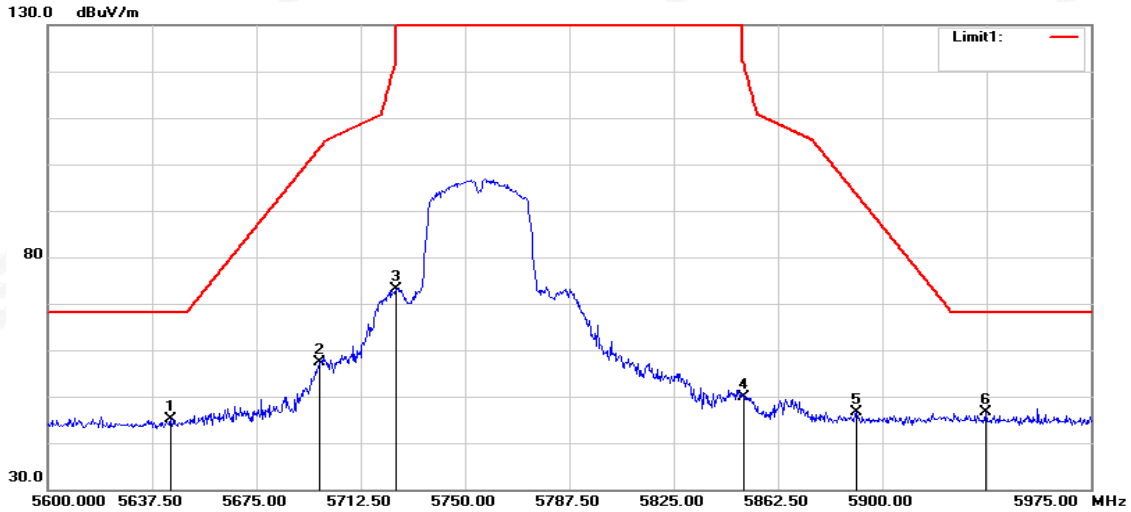
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5610.125	50.06	-4.82	45.24	68.20	-22.96	peak
2	5663.750	50.37	-4.71	45.66	78.38	-32.72	peak
3	5725.000	48.13	-4.48	43.65	122.20	-78.55	peak
4	5850.000	53.91	-3.82	50.09	122.20	-72.11	peak
5	5868.500	50.17	-3.75	46.42	107.02	-60.60	peak
6	5922.500	49.98	-3.59	46.39	70.05	-23.66	peak

802.11n40-L-H



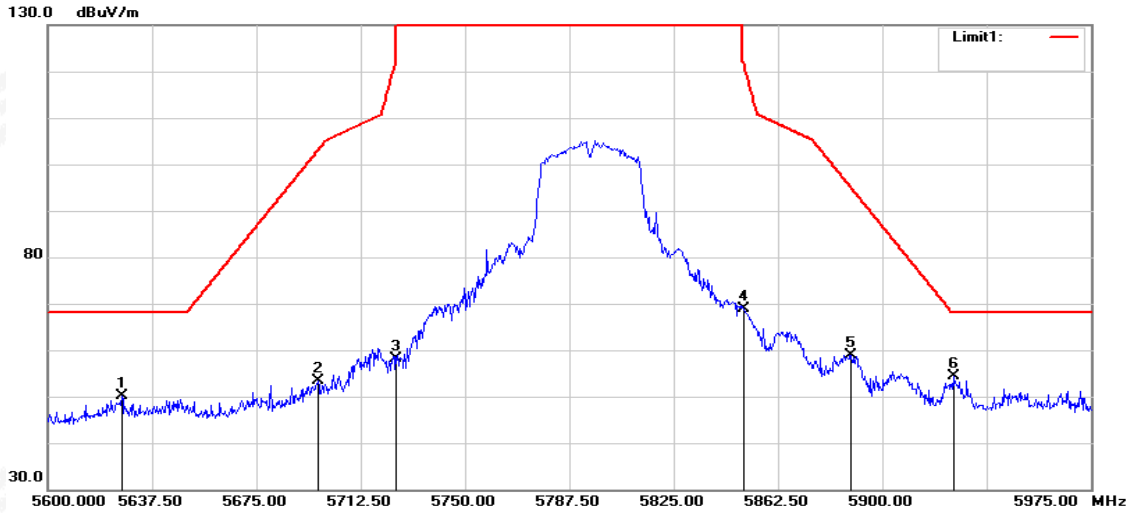
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5644.625	55.73	-4.75	50.98	68.20	-17.22	peak
2	5699.375	73.38	-4.64	68.74	104.74	-36.00	peak
3	5725.000	86.06	-4.48	81.58	122.20	-40.62	peak
4	5850.000	59.65	-3.82	55.83	122.20	-66.37	peak
5	5868.500	58.95	-3.75	55.20	95.58	-43.42	peak
6	5888.000	55.83	-3.67	52.16	68.20	-18.06	peak

802.11n40-L-V



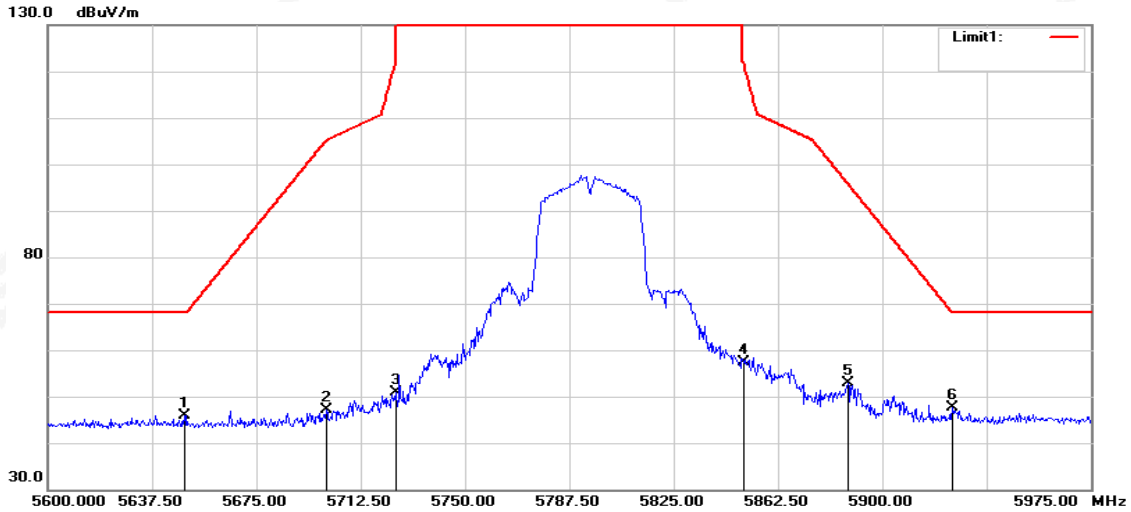
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5644.250	49.80	-4.75	45.05	68.20	-23.15	peak
2	5697.875	62.09	-4.64	57.45	103.63	-46.18	peak
3	5725.000	77.50	-4.48	73.02	122.20	-49.18	peak
4	5850.000	53.65	-3.82	49.83	122.20	-72.37	peak
5	5867.750	53.16	-3.75	49.41	93.64	-46.90	peak
6	5918.000	49.91	-3.60	46.31	68.20	-21.50	peak

802.11n40-H-H



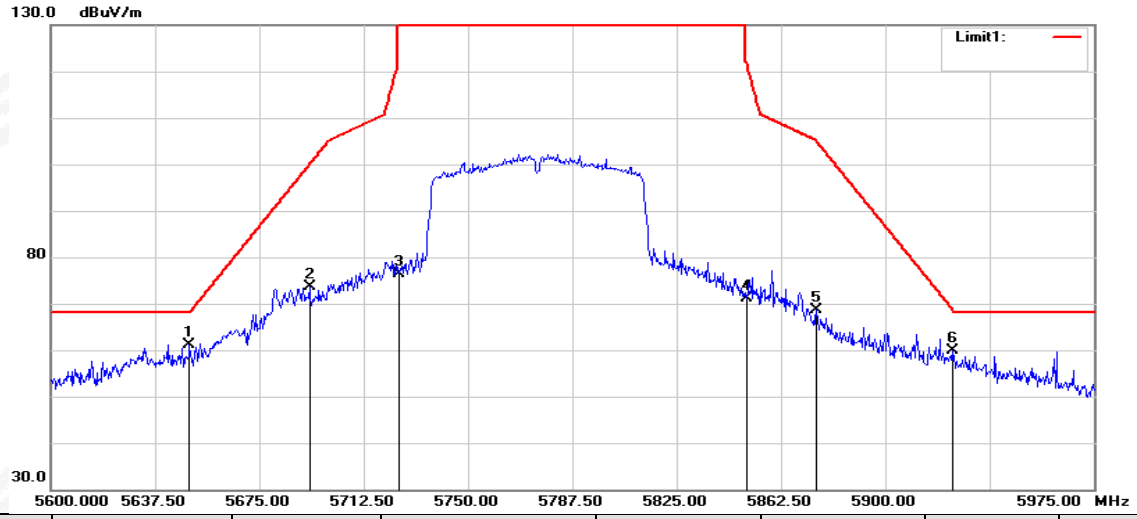
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5626.625	54.86	-4.79	50.07	68.20	-18.13	peak
2	5697.125	58.03	-4.64	53.39	103.07	-49.68	peak
3	5725.000	62.71	-4.48	58.23	122.20	-63.97	peak
4	5850.000	72.68	-3.82	68.86	122.20	-53.34	peak
5	5888.750	62.50	-3.67	58.83	95.03	-36.20	peak
6	5925.500	57.86	-3.59	54.27	68.20	-13.93	peak

802.11n40-H-V



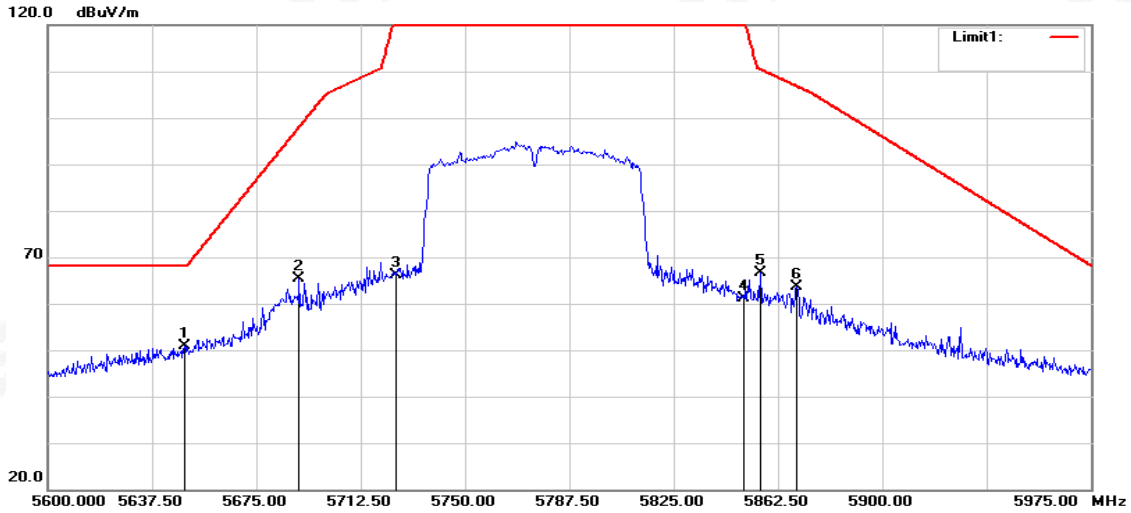
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5649.125	50.72	-4.74	45.98	68.20	-22.22	peak
2	5700.125	51.82	-4.64	47.18	105.23	-58.05	peak
3	5725.000	55.45	-4.48	50.97	122.20	-71.23	peak
4	5850.000	61.28	-3.82	57.46	122.20	-64.74	peak
5	5887.625	56.52	-3.67	52.85	95.86	-43.01	peak
6	5925.125	51.22	-3.59	47.63	68.20	-20.57	peak

802.11ac80-H



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5649.875	65.86	-4.74	61.12	68.20	-7.08	peak
2	5693.000	78.22	-4.65	73.57	100.02	-26.45	peak
3	5725.000	80.94	-4.48	76.46	122.20	-45.74	peak
4	5850.000	74.88	-3.82	71.06	122.20	-51.14	peak
5	5875.250	72.31	-3.72	68.59	105.02	-36.43	peak
6	5924.000	63.59	-3.59	60.00	68.94	-8.94	peak

802.11ac80-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5649.125	55.63	-4.74	50.89	68.20	-17.31	peak
2	5690.375	70.13	-4.66	65.47	98.08	-32.61	peak
3	5725.000	70.65	-4.48	66.17	122.20	-56.03	peak
4	5850.000	65.02	-3.82	61.20	122.20	-61.00	peak
5	5856.125	70.47	-3.80	66.67	110.48	-43.81	peak
6	5869.250	67.41	-3.74	63.67	106.81	-43.14	peak

Remark:

1.Factor = Antenna Factor + Cable Loss – Pre-amplifier.

2. All modes have been measured, only worst mode was reported.

4. POWER SPECTRAL DENSITY TEST

4.1 LIMIT

1. For mobile and portable client devices in the 5.15-5.25 GHz band, , the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
2. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.For the band 5.725-5.850 GHz, the peak power spectral density shall not exceed 30 dBm in any 500KHz band. If transmitting antenna directional gain is greater than 6 dBi, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

4.2 TEST PROCEDURE

1. The setting follows Method SA-1 of FCC KDB 789033 D02 General U-NII Test Procedures New Rules v02r01.

For devices operating in the band, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (*i.e.,* 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

a) Set RBW ≥ 1/*T*, where *T* is defined in section II.B.l.a).

b) Set VBW ≥ 3 RBW.

c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log (500kHz/RBW) to the measured result, whereas RBW (< 500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.

d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add 10 log (1MHz/RBW) to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.

e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

f) Please refer to ANSI C63.10-2020 Section 12.6 Method SA-2.

Note: As a practical matter, it is recommended to use reduced RBW of 100 kHz for the sections5.c) and 5.d) above, since RBW=100 KHZ is available on nearly all spectrum analyzers.

4.3 DEVIATION FROM STANDARD

No deviation.

4.4 TEST SETUP

4.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

4.6 TEST RESULTS

Note: The test data please reference to attachment “STS2511130W30_Appendix 5G WIFI”.

For U-NII 3:

1. Total PSD(dBm/500KHz) = Total PSD(dBm/510KHz) + RBW Factor
2. RBW Factor = 10 * Log(500/510)

5. DUTY CYCLE

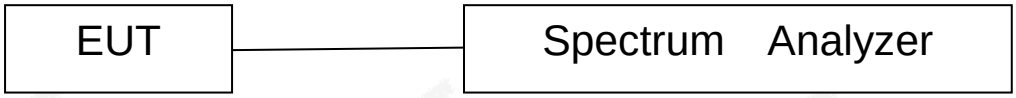
5.1 TEST STANDARD
Please refer to ANSI C63.10-2020 Section 12.2

5.2 TEST PROCEDURE

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Zero
RB	set RBW to the largest available value
VB	VBW ≥ RBW.
Detector	Peak
Trace	Clear Write
Sweep Time	Auto

5.3 DEVIATION FROM STANDARD
No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS
The EUT tested system was configured as the statements of 5 Unless otherwise a special operating condition is specified in the follows during the testing.

5.6 TEST RESULTS
Note: The test data please reference to attachment “STS2511130W30_Appendix 5G WIFI”.

6. BANDWIDTH MEASUREMENT

6.1 EMISSION BANDWIDTH (EBW) 26 BANDWID PROCEDURES / LIMIT

The following procedure shall be used for measuring 26 bandwidth

6.1.1 TEST PROCEDURE

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > =RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP

6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

6.1.5 TEST RESULTS

Note: The test data please reference to attachment “STS2511130W30_Appendix 5G WIFI”.

6.2 OCCUPIED BANDWIDTH (99%) TEST APPLIED PROCEDURES / LIMIT

The following procedure shall be used for measuring (99 %) power bandwidth.

6.2.1 TEST PROCEDURE

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures v02r01.

The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.

2. Set span = 1.5 times to 5.0 times the OBW.

3. Set RBW = 1 % to 5 % of the OBW

4. Set VBW ≥ 3 · RBW

5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.

6. Use the 99 % power bandwidth function of the instrument (if available).

7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

6.2.2 DEVIATION FROM STANDARD

No deviation.

6.2.3 TEST SETUP

6.2.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

6.2.5 TEST RESULTS

Note: The test data please reference to attachment “STS2511130W30_Appendix 5G WIFI”.

6.3 MINIMUM EMISSION BANDWIDTH(6 DB) PROCEDURES / LIMIT

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.725-5.85 GHz. The following procedure shall be used for measuring this bandwidth.

6.3.1 TEST PROCEDURE

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures v02r01.

a) Set RBW = 100 kHz.

b) Set the video bandwidth (VBW) ≥ 3 × RBW.

c) Detector = Peak.

d) Trace mode = max hold.

e) Sweep = auto couple.

f) Allow the trace to stabilize.

g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.3.2 DEVIATION FROM STANDARD

No deviation.

6.3.3 TEST SETUP

6.3.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

6.3.5 TEST RESULTS

Note: The test data please reference to attachment “STS2511130W30_Appendix 5G WIFI”.

7. MAXIMUM OUTPUT POWER

7.1 LIMIT

For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz,If transmitting antennas of directional gain greater than 6 dBi are used.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used.

FCC Part15 (15.407) , Subpart E				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.407(a) (1) (iv)	Max Output Power	0.25 watt	5150-5250	PASS
		The lesser of 250 mW or 11 dBm + 10 log (26 dB emission bandwidth)	5250-5350 5470-5725	
15.407(a) (3)		1 watt	5725-5895	

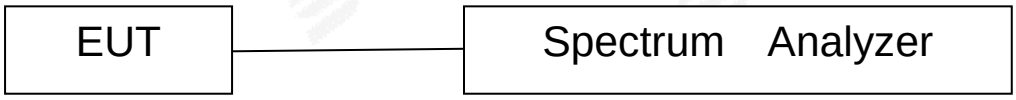
7.2 TEST PROCEDURE

Please refer to ANSI C63.10-2020 Section 12.4.2 Method SA-2

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 5 Unless otherwise a special operating condition is specified in the follows during the testing.

7.6 TEST RESULTS

Note: The test data please reference to attachment “STS2511130W30_Appendix 5G WIFI”.

8. AUTOMATICALLY DISCONTINUE TRANSMISSION

8.1 LIMIT OF AUTOMATICALLY DISCONTINUE TRANSMISSION

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to
complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

8.2 TEST RESULT OF AUTOMATICALLY DISCONTINUE TRANSMISSION

During no any information transmission, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message
transmitting from remote device and verify whether it shall resend or discontinue transmission

9. ANTENNA REQUIREMENT

9.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

9.2 EUT ANTENNA

The EUT antenna is FPC Antenna. It comply with the standard requirement.

APPENDIX - PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

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