TCT 通测检测
TESTING CENTRE TECHNOLOGY

TEST REPORT

FCC ID. ..... :	2A9LJ-ME74	
Test Report No..... :	TCT240516E045	
Date of issue..... :	Aug. 28, 2024	
Testing laboratory ..... :	SHENZHEN TONGCE TESTING LAB	
Testing location/ address:	2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China	
Applicant's name..... :	Meferi Technologies Co., Ltd.	
Address..... :	4F, A6, Tianfu Software Park, No. 1129, Century City Road, High-tech Zone, 610041, Chengdu, Sichuan, 610041 China	
Manufacturer's name ... :	Meferi Technologies Co., Ltd.	
Address..... :	4F, A6, Tianfu Software Park, No. 1129, Century City Road, High-tech Zone, 610041, Chengdu, Sichuan, 610041 China	
Standard(s) ..... :	FCC CFR Title 47 Part 15 Subpart E Section 15.407 KDB 662911 D01 Multiple Transmitter Output v02r01 KDB 789033 D02 General U-NII Test Procedures New Rules v02r01	
Product Name..... :	MOBILE COMPUTER	
Trade Mark ..... :	MEFERI	
Model/Type reference..... :	ME74	
Rating(s)..... :	Refer to EUT description of page 3	
Date of receipt of test item ..... :	May 16, 2024	
Date (s) of performance of test..... :	May 16, 2024 ~ Aug. 28, 2024	
Tested by (+signature) ... :	Brews XU	Brews Xu
Check by (+signature).... :	Beryl ZHAO	Beryl Zhao
Approved by (+signature):	Tomsin	Tomsin

SHENZHEN TONGCE TESTING LAB TCT

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1. General Product Information

1.1. EUT description

Product Name.....:	MOBILE COMPUTER
Model/Type reference.....:	ME74
Sample Number.....:	TCT240516E022-0101
Operation Frequency .....:	Band 1: 5180 MHz~5240 MHz Band 2A: 5260 MHz~5320 MHz Band 2C: 5500 MHz~5700 MHz Band 3: 5745 MHz~5825 MHz
Channel Bandwidth.....:	802.11a: 20MHz 802.11n: 20MHz, 40MHz 802.11ac: 20MHz, 40MHz, 80MHz 802.11ax: 20MHz, 40MHz, 80MHz, 160MHz
Modulation Technology .....:	Orthogonal Frequency Division Multiplexing (OFDM)
Modulation Type.....:	256QAM, 64QAM, 16QAM, BPSK, QPSK
Antenna Type.....:	FPC Antenna
Antenna Gain.....:	Band 1: Antenna 3: 2.04dBi, Antenna 2: 2.68dBi Band 2A: Antenna 3: 1.51dBi, Antenna 2: 2.58dBi Band 2C: Antenna 3: 1.92dBi, Antenna 2: 3.47dBi Band 3: Antenna 3: 1.51dBi, Antenna 2: 2.44dBi
Rating(s).....:	Adapter Information: Model: HJ-FC001K7-US Input: AC 100-240V, 50/60Hz, 0.6A Output: DC 5.0V, 3.0A/DC 9.0V, 2.0A/DC 12.0V, 1.5A, 18.0W Rechargeable Li-ion Battery DC 3.8V

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

1.2. Model(s) list

None.

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1.3. Test Frequency

Band 1

20MHz		40MHz		80MHz		160MHz	
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180	38	5190	42	5210	50	5250
40	5200	46	5230				
48	5240						

Band 2A

20MHz		40MHz		80MHz		160MHz	
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
52	5260	54	5270	58	5290	50	5250
60	5300	62	5310				
64	5320						

Band 2C

20MHz		40MHz		80MHz		160MHz	
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
100	5500	102	5510	106	5530	114	5570
120	5600	118	5590	122	5610		
140	5700	134	5670				

Band 3

20MHz		40MHz		80MHz	
Channel	Frequency	Channel	Frequency	Channel	Frequency
149	5745	151	5755	155	5775
157	5785	159	5795		
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:

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2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	PASS
Maximum Conducted Output Power	§15.407(a)	PASS
6dB Emission Bandwidth	§15.407(a)	PASS
26dB Emission Bandwidth& 99% Occupied Bandwidth	§15.407(a)	PASS
Power Spectral Density	§15.407(a)	PASS
Restricted Bands around fundamental frequency	§15.407(b)	PASS
Radiated Emission	§15.407(b)	PASS
Frequency Stability	§15.407(g)	PASS

Note:

1. PASS: Test item meets the requirement.

2. Fail: Test item does not meet the requirement.

3. N/A: Test case does not apply to the test object.

4. The test result judgment is decided by the limit of test standard.

5.For the band 5.15-5.25GHz, EUT meet the requirements of 15.407(a)(ii).

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3. General Information

3.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Software:	
Software Information:	QRCT
Power Level:	15
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations with max. duty cycle.
The sample was placed 0.8m/1.5m for blow/above 1GHz above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.	

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	Data rate
802.11a(SISO)	6 Mbps
802.11n(HT20) (MIMO)	6.5 Mbps
802.11n(HT40) (MIMO)	13.5 Mbps
802.11ac(VHT20) (MIMO)	6.5 Mbps
802.11ac(VHT40) (MIMO)	13.5 Mbps
802.11ac(VHT80) (MIMO)	29.3 Mbps
802.11ax(HE20) (MIMO)	6.5 Mbps

802.11ax(HE40) (MIMO)	13.5 Mbps
802.11ax(HE80) (MIMO)	29.3 Mbps
802.11ax(HE160) (MIMO)	58.5 Mbps
Final Test Mode:	
Operation mode:	Keep the EUT in continuous transmitting with modulation

3.2. Description of 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.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	/	/	/

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

3. For conducted measurements (Output Power, Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

4. Facilities and Accreditations

4.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

- FCC - Registration No.: 645098
  SHENZHEN TONGCE TESTING LAB
  Designation Number: CN1205
  The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.
- IC - Registration No.: 10668A
  SHENZHEN TONGCE TESTING LAB
  CAB identifier: CN0031
  The testing lab has been registered by Innovation, Science and Economic Development Canada for radio equipment testing.

4.2. Location

SHENZHEN TONGCE TESTING LAB
Address: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China
TEL: +86-755-27673339

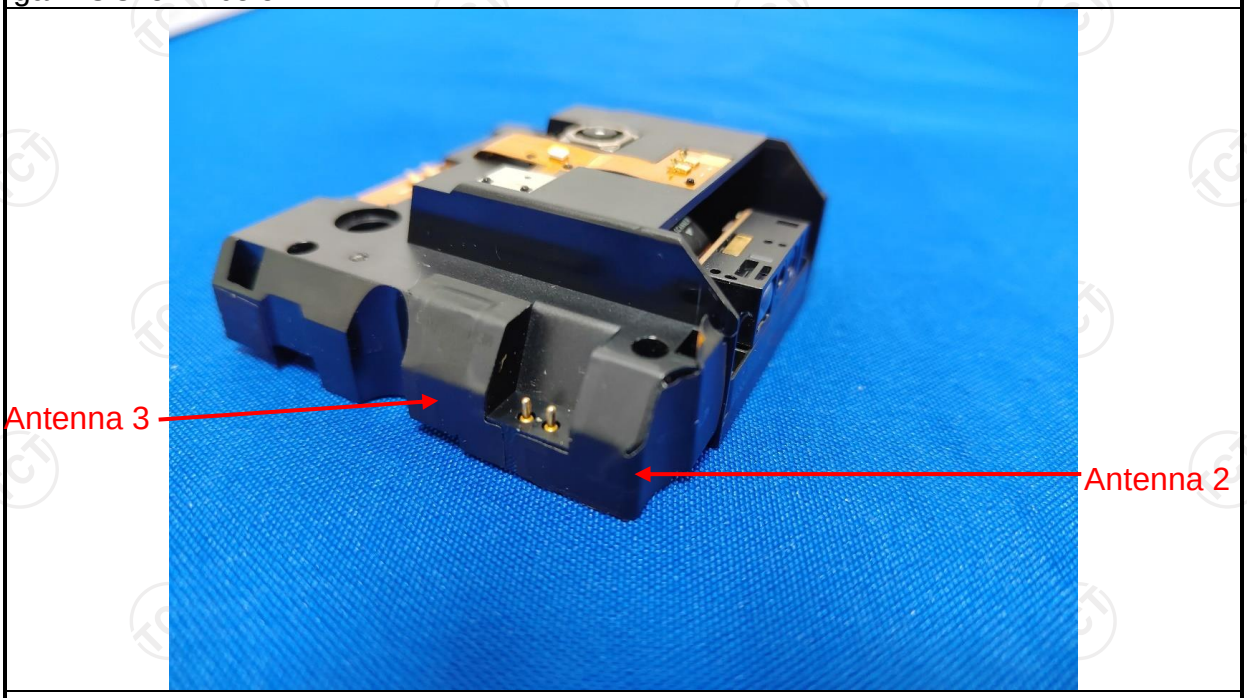
4.3. Measurement Uncertainty

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	MU
1	Conducted Emission	± 3.10 dB
2	RF power, conducted	± 0.12 dB
3	Spurious emissions, conducted	± 0.11 dB
4	All emissions, radiated(<1 GHz)	± 4.56 dB
5	All emissions, radiated(1 GHz - 18 GHz)	± 4.22 dB
6	All emissions, radiated(18 GHz- 40 GHz)	± 4.36 dB

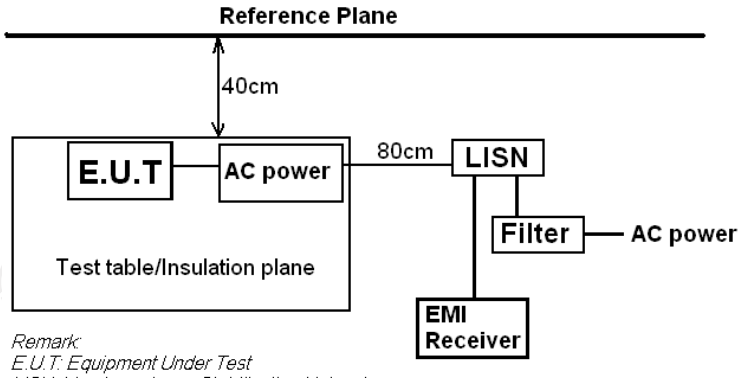
5. Test Results and Measurement Data

5.1. Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 requirement: 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
E.U.T Antenna:	
The EUT test with two FPC antennas for maximum gain which are detachable, and the gain is shown below.	
	
Refer to KDB 662911 D01 Multiple Transmitter Output v02r01: Unequal antenna gains, with equal transmit powers, if transmit signals are correlated, then Directional gain of B1= $10\log[(10^{2.04/20}+10^{2.68/20})^2/2]$ = 5.38dBi; Directional gain of B2A = $10\log[(10^{1.51/20}+10^{2.58/20})^2/2]$ = 5.07dBi; Directional gain of B2C = $10\log[(10^{1.92/20}+10^{3.47/20})^2/2]$ = 5.74dBi; Directional gain of B3 = $10\log[(10^{1.51/20}+10^{2.44/20})^2/2]$ = 5.00dBi.	
Note: Above directional gain not applicable to power measurements.	

5.2. Conducted Emission

5.2.1. Test Specification

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 C Section 15.207</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10:2013</td></tr>
<tr><td>Frequency Range:</td><td>150 kHz to 30 MHz</td></tr>
<tr><td>Receiver setup:</td><td>RBW=9 kHz, VBW=30 kHz, Sweep time=auto</td></tr>
<tr><td>Limits:</td><td>
<table>
<tr><td rowspan="2">Frequency range (MHz)</td><td colspan="2">Limit (dBuV)</td></tr>
<tr><td>Quasi-peak</td><td>Average</td></tr>
<tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr>
<tr><td>0.5-5</td><td>56</td><td>46</td></tr>
<tr><td>5-30</td><td>60</td><td>50</td></tr>
</table>
</td></tr>
<tr><td>Test Setup:</td><td>


Remark:
E.U.T: Equipment Under Test
LISN: Line Impedence Stabilization Network
Test table height=0.8m
</td></tr>
<tr><td>Test Mode:</td><td>Charging + Transmitting Mode</td></tr>
<tr><td>Test Procedure:</td><td>1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.
2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).
3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.</td></tr>
<tr><td>Test Result:</td><td>PASS</td></tr>
</table>

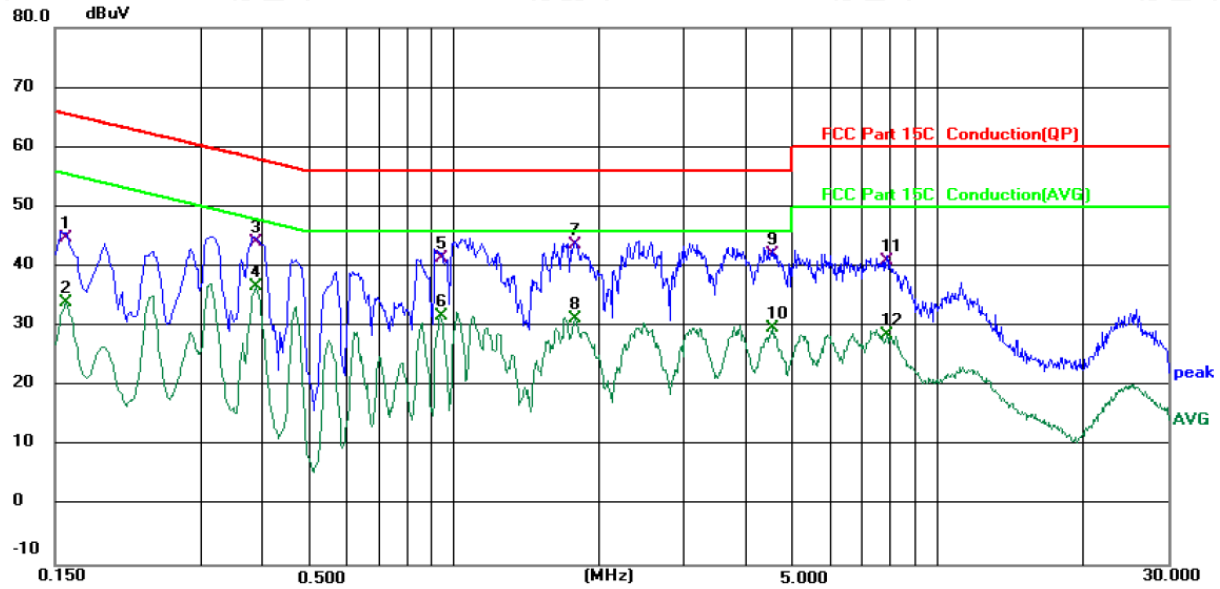
5.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)				
Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Due**
EMI Test Receiver	R&S	ESCI3	100898	Jun. 26, 2025
LISN	Schwarzbeck	NSLK 8126	8126453	Jan. 31, 2025
Attenuator	N/A	10dB	164080	Jun. 26, 2025
Line-5	TCT	CE-05	/	Jun. 26, 2025
EMI Test Software	EZ_EMC	EMEC-3A1	1.1.4.2	/

5.2.3. Test data

Please refer to following diagram for individual

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



Site 844 Shielding Room | Phase: *L1* | Temperature: 24.5 (℃) | Humidity: 51 %

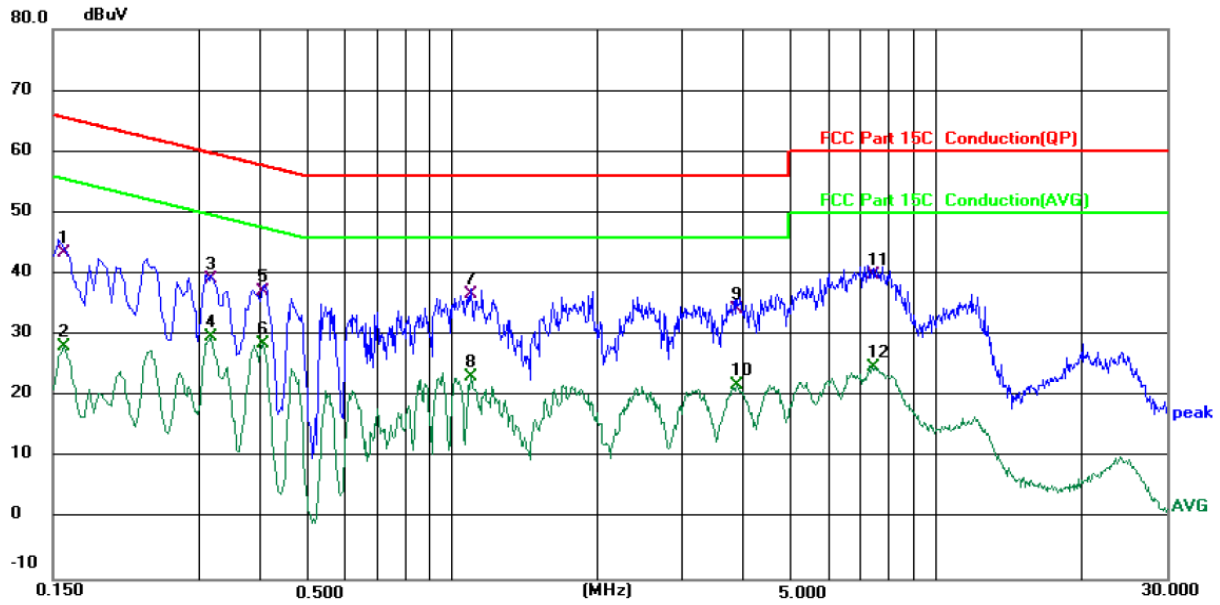
Limit: FCC Part 15C Conduction(QP) | Power: AC 120 V/60 Hz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1580	34.79	10.03	44.82	65.57	-20.75	QP	
2		0.1580	24.04	10.03	34.07	55.57	-21.50	AVG	
3		0.3899	34.73	9.44	44.17	58.07	-13.90	QP	
4	*	0.3899	27.34	9.44	36.78	48.07	-11.29	AVG	
5		0.9419	32.51	8.95	41.46	56.00	-14.54	QP	
6		0.9419	22.87	8.95	31.82	46.00	-14.18	AVG	
7		1.7900	33.64	10.01	43.65	56.00	-12.35	QP	
8		1.7900	21.19	10.01	31.20	46.00	-14.80	AVG	
9		4.5860	31.65	10.38	42.03	56.00	-13.97	QP	
10		4.5860	19.32	10.38	29.70	46.00	-16.30	AVG	
11		7.8540	30.53	10.54	41.07	60.00	-18.93	QP	
12		7.8540	18.02	10.54	28.56	50.00	-21.44	AVG	

Note:

Freq. = Emission frequency in MHz
Reading level (dBµV) = Receiver reading
Corr. Factor (dB) = LISN factor + Cable loss
Measurement (dBµV) = Reading level (dBµV) + Corr. Factor (dB)
Limit (dBµV) = Limit stated in standard
Margin (dB) = Measurement (dBµV) – Limits (dBµV)
Q.P. =Quasi-Peak
AVG =average
** is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.*

Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



Site 844 Shielding Room | Phase: N | Temperature: 24.5 (℃) | Humidity: 51 %

Limit: FCC Part 15C Conduction(QP) | Power: AC 120 V/60 Hz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1580	33.50	10.01	43.51	65.57	-22.06	QP	
2		0.1580	18.10	10.01	28.11	55.57	-27.46	AVG	
3		0.3180	29.32	9.82	39.14	59.76	-20.62	QP	
4		0.3180	19.79	9.82	29.61	49.76	-20.15	AVG	
5		0.4060	27.85	9.40	37.25	57.73	-20.48	QP	
6	*	0.4060	19.21	9.40	28.61	47.73	-19.12	AVG	
7		1.0980	26.88	9.87	36.75	56.00	-19.25	QP	
8		1.0980	13.40	9.87	23.27	46.00	-22.73	AVG	
9		3.8940	23.91	10.20	34.11	56.00	-21.89	QP	
10		3.8940	11.72	10.20	21.92	46.00	-24.08	AVG	
11		7.4059	29.36	10.50	39.86	60.00	-20.14	QP	
12		7.4059	14.32	10.50	24.82	50.00	-25.18	AVG	

Note: *1. Freq. = Emission frequency in MHz*

Reading level (dBµV) = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement (dBµV) = Reading level (dBµV) + Corr. Factor (dB)

Limit (dBµV) = Limit stated in standard

Margin (dB) = Measurement (dBµV) – Limits (dBµV)

Q.P. =Quasi-Peak

AVG =average

** is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.*

2. Measurements were conducted in all three channels (high, middle, low) and all modulation (802.11a, 802.11n(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80), 802.11ax(HE20), 802.11ax(HE40), 802.11ax(HE80), 802.11ax(HE160)) and the worst case Mode (Lowest and 802.11 ac(VHT40) transmit with antenna 3) was submitted only.

5.3. Maximum Conducted Output Power

5.3.1. Test Specification

Test Requirement:	FCC Part15 E Section 15.407(a)& Part 2 J Section 2.1046
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E
Limit:	Frequency Band (MHz) / Limit 5180 - 5240 / 24dBm(250mW) for client device 5260 - 5320 / 24dBm(250mW) or 11 dBm + 10 log B, B is the 26 dB emission bandwidth in megahertz 5470 - 5725 / 24dBm(250mW) or 11 dBm + 10 log B, B is the 26 dB emission bandwidth in megahertz 5745 - 5825 / 30dBm(1W)
Test Setup:	
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows the Measurement Procedure of KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E, 3, a 2. The RF output of EUT was connected to the power meter by RF cable. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 5. Measure the conducted output power and record the results in the test report.
Test Result:	PASS
Remark:	Conducted output power= measurement power +10log(1/x), X is duty cycle=1, so 10log(1/1)=0 Conducted output power= measurement power

5.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
Power Meter	Agilent	E4418B	MY45100357	Jun. 26, 2025
Power Sensor	Agilent	8184A	MY41096530	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/	/

5.3.3. Test Data

Configuration Band 1 (5180 - 5240 MHz) / Antenna 3+Antenna 2						
Mode	Test channel	Maximum Conducted (Average) Output Power (dBm)			Limit (dBm)	Result
		Ant3	Ant2	Total		
11a	CH36	15.28	13.82	/	24	PASS
11a	CH40	15.17	13.92	/	24	PASS
11a	CH48	14.92	13.65	/	24	PASS
11n(HT20)	CH36	15.28	13.81	17.62	24	PASS
11n(HT20)	CH40	15.09	13.81	17.51	24	PASS
11n(HT20)	CH48	14.68	13.49	17.14	24	PASS
11n(HT40)	CH38	15.34	13.95	17.71	24	PASS
11n(HT40)	CH46	15.15	13.90	17.58	24	PASS
11ac(VHT20)	CH36	15.29	13.84	17.64	24	PASS
11ac(VHT20)	CH40	15.12	13.89	17.56	24	PASS
11ac(VHT20)	CH48	14.77	13.55	17.21	24	PASS
11ac(VHT40)	CH38	15.45	14.07	17.82	24	PASS
11ac(VHT40)	CH46	15.26	14.03	17.70	24	PASS
11ac(VHT80)	CH42	15.11	13.63	17.44	24	PASS
11ax(HE160)	CH50	14.42	13.38	16.94	24	PASS
11ax(HE20)	CH36	15.43	14.04	17.80	24	PASS
11ax(HE20)	CH40	15.30	14.05	17.73	24	PASS
11ax(HE20)	CH48	14.90	13.67	17.34	24	PASS
11ax(HE40)	CH38	15.24	13.85	17.61	24	PASS
11ax(HE40)	CH46	15.04	13.80	17.47	24	PASS
11ax(HE80)	CH42	14.75	13.57	17.21	24	PASS

Configuration Band 2A (5260 - 5320 MHz) / Antenna 3+Antenna 2								
Mode	Test channel	Maximum Conducted (Average) Output Power (dBm)			26 dB Bandwidth (MHz)	11dBm+ 10logB (dBm)	Output Power Limit (dBm)	Result
		Ant3	Ant2	Total				
11a	CH52	15.28	12.66	/	20.00	24.01	24	PASS
11a	CH60	15.17	12.05	/	19.96	24.00	24	PASS
11a	CH64	14.92	12.23	/	19.89	23.99	23.99	PASS
11n(HT20)	CH52	15.28	12.52	17.13	21.24	24.27	24	PASS
11n(HT20)	CH60	15.09	11.85	16.78	21.19	24.26	24	PASS
11n(HT20)	CH64	14.68	12.05	16.57	20.73	24.17	24	PASS
11n(HT40)	CH54	15.34	12.65	17.21	40.24	27.05	24	PASS
11n(HT40)	CH62	15.15	12.10	16.90	40.26	27.05	24	PASS
11ac(VHT20)	CH52	15.29	12.62	17.17	20.94	24.21	24	PASS
11ac(VHT20)	CH60	15.12	11.95	16.83	21.15	24.25	24	PASS
11ac(VHT20)	CH64	14.77	12.11	16.65	21.06	24.23	24	PASS
11ac(VHT40)	CH54	15.45	12.76	17.32	40.47	27.07	24	PASS
11ac(VHT40)	CH62	15.26	12.21	17.01	40.52	27.08	24	PASS
11ac(VHT80)	CH58	15.11	12.57	17.03	82.17	30.15	24	PASS
11ax(HE20)	CH52	15.43	12.73	17.30	20.86	24.19	24	PASS
11ax(HE20)	CH60	15.30	12.03	16.98	21.26	24.28	24	PASS
11ax(HE20)	CH64	14.90	12.17	16.76	21.10	24.24	24	PASS
11ax(HE40)	CH54	15.24	12.56	17.11	39.88	27.01	24	PASS
11ax(HE40)	CH62	15.04	12.02	16.80	39.99	27.02	24	PASS
11ax(HE80)	CH58	14.75	12.38	16.74	80.86	30.08	24	PASS

Note: The maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz

Configuration Band 2C (5500 - 5700 MHz) / Antenna 3+Antenna 2								
Mode	Test channel	Maximum Conducted (Average) Output Power (dBm)			26 dB Bandwidth (MHz)	11dBm+ 10logB (dBm)	Output Power Limit (dBm)	Result
		Ant3	Ant2	Total				
11a	CH100	13.20	11.91	/	19.81	23.97	23.97	PASS
11a	CH120	12.87	12.77	/	19.96	24.00	24	PASS
11a	CH140	13.44	12.42	/	19.96	24.00	24	PASS
11n(HT20)	CH100	12.86	11.65	15.31	20.67	24.15	24	PASS
11n(HT20)	CH120	12.76	12.60	15.69	20.93	24.21	24	PASS
11n(HT20)	CH140	13.46	12.32	15.94	20.81	24.18	24	PASS
11n(HT40)	CH102	12.50	11.63	15.10	40.09	27.03	24	PASS
11n(HT40)	CH118	12.44	12.52	15.49	40.32	27.06	24	PASS
11n(HT40)	CH134	13.20	12.42	15.84	40.26	27.05	24	PASS
11ac(VHT20)	CH100	13.00	11.76	15.43	20.86	24.19	24	PASS
11ac(VHT20)	CH120	12.85	12.72	15.80	21.04	24.23	24	PASS
11ac(VHT20)	CH140	13.57	12.42	16.04	20.97	24.22	24	PASS
11ac(VHT40)	CH102	12.51	11.73	15.15	40.32	27.06	24	PASS
11ac(VHT40)	CH118	12.61	12.69	15.66	40.48	27.07	24	PASS
11ac(VHT40)	CH134	13.47	12.67	16.10	40.44	27.07	24	PASS
11ac(VHT80)	CH106	12.53	11.59	15.10	82.58	30.17	24	PASS
11ac(VHT80)	CH122	13.02	12.78	15.91	81.97	30.14	24	PASS
11ax(HE160)	CH100	12.36	12.20	15.29	161.3	33.08	24	PASS
11ax(HE20)	CH114	12.82	11.81	15.35	20.83	24.19	24	PASS
11ax(HE20)	CH120	12.62	12.85	15.75	21.05	24.23	24	PASS
11ax(HE20)	CH140	13.51	12.59	16.08	20.83	24.19	24	PASS
11ax(HE40)	CH102	12.49	11.54	15.05	39.29	26.94	24	PASS
11ax(HE40)	CH118	12.51	12.52	15.53	39.07	26.92	24	PASS
11ax(HE40)	CH134	13.34	12.49	15.95	39.24	26.94	24	PASS
11ax(HE80)	CH106	12.44	11.52	15.01	80.36	30.05	24	PASS
11ax(HE80)	CH122	12.57	12.45	15.52	80.28	30.05	24	PASS

Note: The maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz

Configuration Band 3 (5745 - 5825 MHz) / Antenna 3+Antenna 2						
Mode	Test channel	Maximum Conducted (Average) Output Power (dBm)			Limit (dBm)	Result
		Ant3	Ant2	Total		
11a	CH149	13.03	12.22	/	30	PASS
11a	CH157	13.23	12.16	/	30	PASS
11a	CH165	12.83	12.03	/	30	PASS
11n(HT20)	CH149	12.90	11.85	15.42	30	PASS
11n(HT20)	CH157	13.07	11.91	15.54	30	PASS
11n(HT20)	CH165	12.61	11.81	15.24	30	PASS
11n(HT40)	CH151	9.14	11.65	13.58	30	PASS
11n(HT40)	CH159	9.16	11.92	13.77	30	PASS
11ac(VHT20)	CH149	12.89	11.94	15.45	30	PASS
11ac(VHT20)	CH157	13.06	12.00	15.57	30	PASS
11ac(VHT20)	CH165	12.66	12.00	15.35	30	PASS
11ac(VHT40)	CH151	13.20	11.73	15.54	30	PASS
11ac(VHT40)	CH159	13.19	12.02	15.65	30	PASS
11ac(VHT80)	CH155	13.16	11.89	15.58	30	PASS
11ax(HE20)	CH149	12.94	11.98	15.50	30	PASS
11ax(HE20)	CH157	13.16	11.99	15.62	30	PASS
11ax(HE20)	CH165	12.72	12.06	15.41	30	PASS
11ax(HE40)	CH151	13.08	11.62	15.42	30	PASS
11ax(HE40)	CH159	13.03	11.85	15.49	30	PASS
11ax(HE80)	CH155	12.89	11.61	15.31	30	PASS

5.4. 6dB Emission Bandwidth

5.4.1. Test Specification

Test Requirement:	FCC CFR47 Part 15 Section 15.407(e)& Part 2 J Section 2.1049
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C
Limit:	>500kHz
Test Setup:	
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. 4. Measure and record the results in the test report.
Test Result:	PASS

5.4.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/	/

5.5. 26dB Bandwidth and 99% Occupied Bandwidth

5.5.1. Test Specification

Test Requirement:	47 CFR Part 15C Section 15.407 (a)& Part 2 J Section 2.1049
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D
Limit:	No restriction limits
Test Setup:	
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 1% to 5% of the OBW. Set the Video bandwidth (VBW) = 3 *RBW. In order to make an accurate measurement. 4. Measure and record the results in the test report.
Test Result:	PASS

5.5.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/	/

5.6. Power Spectral Density

5.6.1. Test Specification

Test Requirement:	FCC Part15 E Section 15.407 (a)
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section F
Limit:	≤11.00dBm/MHz for Band 1 5150MHz-5250MHz(client device) ≤11.00dBm/MHz for Band 2A&2C 5250-5350&5470-5725 ≤30.00dBm/500KHz for Band 3 5725MHz-5850MHz The e.i,r,p spectral density for Band 1 5150MHz – 5250 MHz should not exceed 10dBm/MHz
Test Setup:	
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth. 1. Set RBW = 510 kHz/1 MHz, VBW ≥ 3*RBW, Sweep time = Auto, Detector = RMS. 2. Allow the sweeps to continue until the trace stabilizes. 3. Use the peak marker function to determine the maximum amplitude level. 4. The E.I.R.P spectral density used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment.
Test Result:	PASS

5.6.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/	/

5.6.3. Test data

Configuration Band 1 (5180 - 5240 MHz) / Antenna 3+Antenna 2						
Mode	Test channel	Power Spectral Density(dBm/MHz)			Limit (dBm/MHz)	Result
		Ant3	Ant2	Total		
11a	CH36	3.78	2.33	/	11	PASS
11a	CH40	3.64	2.39	/	11	PASS
11a	CH48	3.41	2.15	/	11	PASS
11n(HT20)	CH36	3.64	2.15	5.97	11	PASS
11n(HT20)	CH40	3.44	2.10	5.83	11	PASS
11n(HT20)	CH48	3.05	1.85	5.50	11	PASS
11n(HT40)	CH38	0.61	-0.81	2.97	11	PASS
11n(HT40)	CH46	0.46	-0.78	2.89	11	PASS
11ac(VHT20)	CH36	3.59	2.14	5.94	11	PASS
11ac(VHT20)	CH40	3.43	2.21	5.87	11	PASS
11ac(VHT20)	CH48	3.11	1.86	5.54	11	PASS
11ac(VHT40)	CH38	0.69	-0.78	3.03	11	PASS
11ac(VHT40)	CH46	0.54	-0.73	2.96	11	PASS
11ac(VHT80)	CH42	-2.63	-4.03	-0.26	11	PASS
11ax(HE160)	CH50	-5.29	-6.58	-2.88	11	PASS
11ax(HE20)	CH36	4.58	3.15	6.93	11	PASS
11ax(HE20)	CH40	4.20	2.99	6.65	11	PASS
11ax(HE20)	CH48	3.90	2.56	6.29	11	PASS
11ax(HE40)	CH38	1.56	-0.18	3.79	11	PASS
11ax(HE40)	CH46	1.16	-0.19	3.55	11	PASS
11ax(HE80)	CH42	-2.33	-3.52	0.13	11	PASS

Refer to KDB 662911 D01 Multiple Transmitter Output v02r01:
For power spectral density (PSD) measurements when antenna gains are not equal,
Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}$] dBi =5.38<6,
So limit=11

Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

Configuration Band 2A (5260-5320MHz) /Antenna 3+Antenna 2						
Mode	Test channel	Power Spectral Density(dBm/MHz)			Limit (dBm/MHz)	Result
		Ant3	Ant2	Total		
11a	CH52	3.78	1.28	/	11	PASS
11a	CH60	3.64	0.57	/	11	PASS
11a	CH64	3.41	0.85	/	11	PASS
11n(HT20)	CH52	3.64	0.96	5.51	11	PASS
11n(HT20)	CH60	3.44	0.21	5.13	11	PASS
11n(HT20)	CH64	3.05	0.57	4.99	11	PASS
11n(HT40)	CH54	0.61	-2.14	2.46	11	PASS
11n(HT40)	CH62	0.46	-2.50	2.24	11	PASS
11ac(VHT20)	CH52	3.59	1.05	5.51	11	PASS
11ac(VHT20)	CH60	3.43	0.27	5.14	11	PASS
11ac(VHT20)	CH64	3.11	0.55	5.03	11	PASS
11ac(VHT40)	CH54	0.69	-2.04	2.55	11	PASS
11ac(VHT40)	CH62	0.54	-2.55	2.27	11	PASS
11ac(VHT80)	CH58	-2.63	-5.11	-0.69	11	PASS
11ax(HE20)	CH52	4.58	0.67	6.06	11	PASS
11ax(HE20)	CH60	4.20	-0.25	5.53	11	PASS
11ax(HE20)	CH64	3.90	1.30	5.80	11	PASS
11ax(HE40)	CH54	1.56	-1.36	3.35	11	PASS
11ax(HE40)	CH62	1.16	-1.43	3.07	11	PASS
11ax(HE80)	CH58	-2.33	-4.35	-0.21	11	PASS

Refer to KDB 662911 D01 Multiple Transmitter Output v02r01:
For power spectral density (PSD) measurements when antenna gains are not equal,
Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}$] dBi =5.07<6,
So limit=11

Configuration Band 2C (5500-5700 MHz) /Antenna 3+Antenna 2						
Mode	Test channel	Power Spectral Density(dBm/MHz)			Limit (dBm/MHz)	Result
		Ant3	Ant2	Total		
11a	CH100	1.63	0.47	/	11	PASS
11a	CH120	1.33	1.32	/	11	PASS
11a	CH140	1.91	0.90	/	11	PASS
11n(HT20)	CH100	1.27	0.08	3.73	11	PASS
11n(HT20)	CH120	1.15	1.00	4.09	11	PASS
11n(HT20)	CH140	1.82	0.62	4.27	11	PASS
11n(HT40)	CH102	-2.01	-2.89	0.58	11	PASS
11n(HT40)	CH118	-2.23	-2.07	0.86	11	PASS
11n(HT40)	CH134	-1.52	-2.14	1.19	11	PASS
11ac(VHT20)	CH100	1.40	0.15	3.83	11	PASS
11ac(VHT20)	CH120	1.21	1.05	4.14	11	PASS
11ac(VHT20)	CH140	1.86	0.72	4.34	11	PASS
11ac(VHT40)	CH102	-2.04	-2.92	0.55	11	PASS
11ac(VHT40)	CH118	-2.16	-2.02	0.92	11	PASS
11ac(VHT40)	CH134	-1.34	-2.00	1.35	11	PASS
11ac(VHT80)	CH106	-5.12	-6.04	-2.55	11	PASS
11ac(VHT80)	CH122	-4.58	-4.79	-1.67	11	PASS
11ax(HE160)	CH114	-7.67	-7.61	-4.63	11	PASS
11ax(HE20)	CH100	1.90	0.99	4.48	11	PASS
11ax(HE20)	CH120	0.29	0.55	3.43	11	PASS
11ax(HE20)	CH140	2.58	1.78	5.21	11	PASS
11ax(HE40)	CH102	-1.02	-2.43	1.34	11	PASS
11ax(HE40)	CH118	-1.23	-1.45	1.67	11	PASS
11ax(HE40)	CH134	-0.42	-1.46	2.10	11	PASS
11ax(HE80)	CH106	-4.57	-5.17	-1.85	11	PASS
11ax(HE80)	CH122	-3.96	-4.10	-1.02	11	PASS

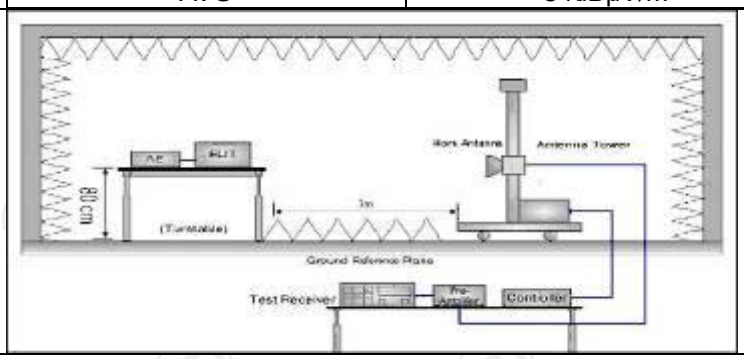
Refer to KDB 662911 D01 Multiple Transmitter Output v02r01:
For power spectral density (PSD) measurements when antenna gains are not equal,
Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}$] dBi =5.74<6,
So limit=11

Configuration Band 3(5745-5825MHz) / Antenna 3+Antenna 2						
Mode	Test channel	Power Spectral Density(dBm/MHz)			Limit (dBm/MHz)	Result
		Ant3	Ant2	Total		
11a	CH149	-1.21	-2.14	/	30	PASS
11a	CH157	-1.10	-2.16	/	30	PASS
11a	CH165	-1.50	-2.33	/	30	PASS
11n(HT20)	CH149	-1.56	-2.63	0.95	30	PASS
11n(HT20)	CH157	-1.39	-2.53	1.09	30	PASS
11n(HT20)	CH165	-1.77	-2.53	0.88	30	PASS
11n(HT40)	CH151	-7.49	-5.68	-3.48	30	PASS
11n(HT40)	CH159	-7.51	-5.57	-3.42	30	PASS
11ac(VHT20)	CH149	-1.53	-2.56	1.00	30	PASS
11ac(VHT20)	CH157	-1.34	-2.43	1.16	30	PASS
11ac(VHT20)	CH165	-1.73	-2.56	0.89	30	PASS
11ac(VHT40)	CH151	-4.18	-5.82	-1.91	30	PASS
11ac(VHT40)	CH159	-4.25	-5.60	-1.86	30	PASS
11ac(VHT80)	CH155	-7.44	-8.63	-4.98	30	PASS
11ax(HE20)	CH149	-1.02	-1.89	1.58	30	PASS
11ax(HE20)	CH157	-0.87	-1.97	1.63	30	PASS
11ax(HE20)	CH165	-1.26	-1.79	1.49	30	PASS
11ax(HE40)	CH151	-3.73	-5.53	-1.53	30	PASS
11ax(HE40)	CH159	-3.98	-5.31	-1.58	30	PASS
11ax(HE80)	CH155	-6.99	-8.12	-4.51	30	PASS

Refer to KDB 662911 D01 Multiple Transmitter Output v02r01:
For power spectral density (PSD) measurements when antenna gains are not equal,
Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}$] dBi=5.00<6,
So limit=30

5.7. Band edge

5.7.1. Test Specification

<table>
<tr><td>Test Requirement:</td><td>FCC CFR47 Part 15E Section 15.407</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10 2013</td></tr>
<tr><td>Limit:</td><td>In un-restricted band:
For Band 1&2A&2C: -27dBm/MHz
For Band 3:
<table>
<tr><td>Frequency (MHz)</td><td>Limit (dBm/MHz)</td><td>Frequency (MHz)</td><td>Limit (dBm/MHz)</td></tr>
<tr><td>< 650</td><td>-27</td><td>5850~5855</td><td>27~15.6</td></tr>
<tr><td>5650~5700</td><td>-27~10</td><td>5855~5875</td><td>15.6~10</td></tr>
<tr><td>5700~5720</td><td>10~15.6</td><td>5875~5925</td><td>10~-27</td></tr>
<tr><td>5720~5725</td><td>15.6~27</td><td>> 5925</td><td>-27</td></tr>
</table>
E[dBμV/m] = EIRP[dBm] + 95.2 @3m
In restricted band:
<table>
<tr><td>Detector</td><td>Limit@3m</td></tr>
<tr><td>Peak</td><td>74dBμV/m</td></tr>
<tr><td>AVG</td><td>54dBμV/m</td></tr>
</table></td></tr>
<tr><td>Test Setup:</td><td> 
</td></tr>
<tr><td>Test Mode:</td><td>Transmitting mode with modulation</td></tr>
<tr><td>Test Procedure:</td><td>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold</td></tr>
</table>

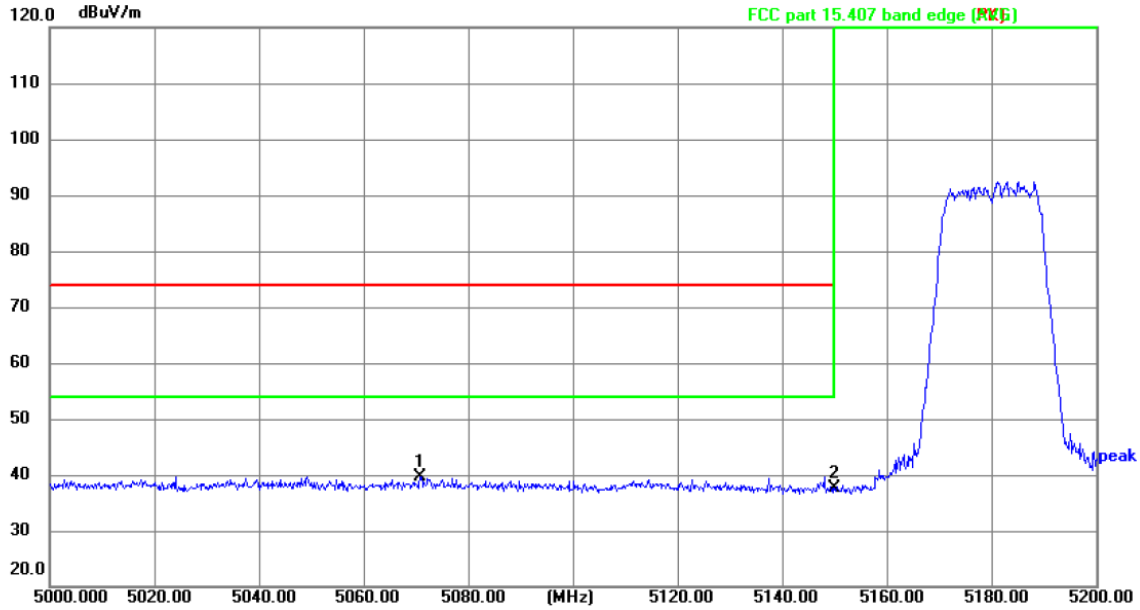
	Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet.
Test Result:	PASS

5.7.2. Test Instruments

Radiated Emission Test Site (966)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESCI7	100529	Jan. 31, 2025
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 26, 2025
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
Pre-amplifier	SKET	LNPA_0118G-45	SK2021012102	Jan. 31, 2025
Pre-amplifier	SKET	LNPA_1840G-50	SK202109203500	Jan. 31, 2025
Pre-amplifier	HP	8447D	2727A05017	Jun. 26, 2025
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jun. 26, 2025
Broadband Antenna	Schwarzbeck	VULB9163	340	Jun. 28, 2025
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jun. 28, 2025
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Feb. 02, 2025
Coaxial cable	SKET	RE-03-D	/	Jun. 26, 2025
Coaxial cable	SKET	RE-03-M	/	Jun. 26, 2025
Coaxial cable	SKET	RE-03-L	/	Jun. 26, 2025
Coaxial cable	SKET	RE-04-D	/	Jun. 26, 2025
Coaxial cable	SKET	RE-04-M	/	Jun. 26, 2025
Coaxial cable	SKET	RE-04-L	/	Jun. 26, 2025
Antenna Mast	Keleto	RE-AM	/	/
EMI Test Software	EZ_EMC	FA-03A2 RE+	1.1.4.2	/

5.7.3. Test Data

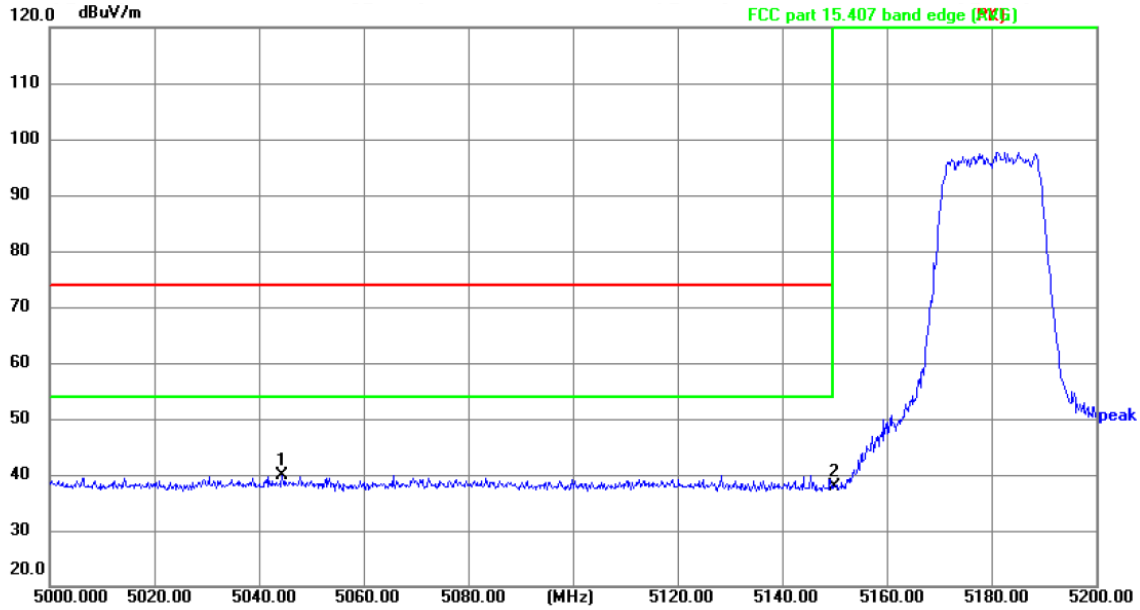
AX20-5180



Site: 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 25.1(℃) Humidity: 49 %

Limit: FCC part 15.407 band edge (PK) Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5070.900	48.62	-8.87	39.75	74.00	-34.25	peak	P	
2	5150.000	46.12	-8.59	37.53	74.00	-36.47	peak	P	

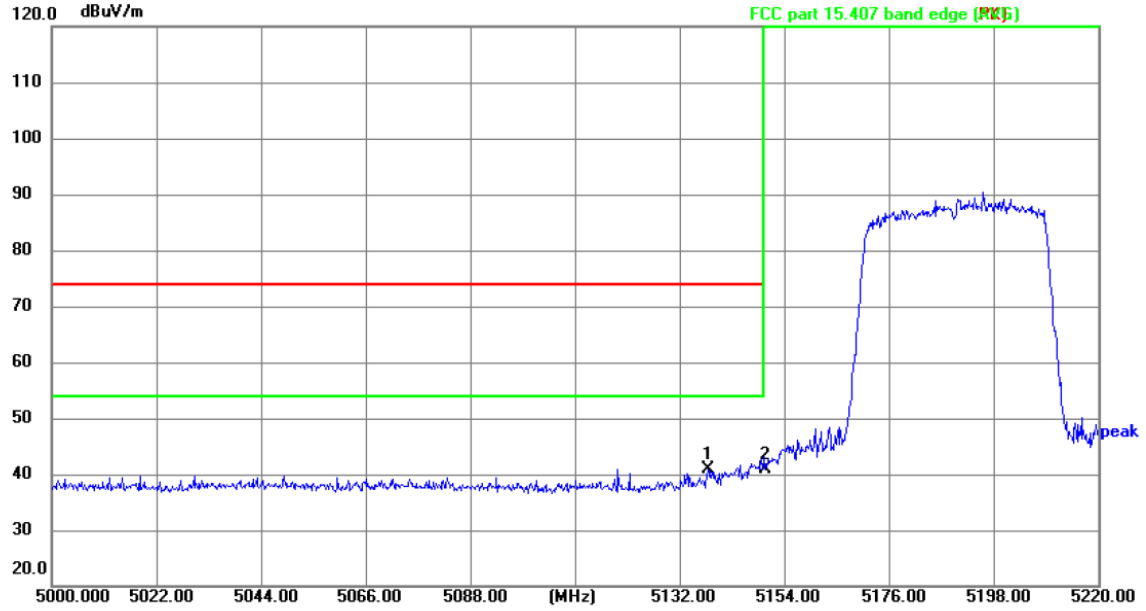


Site: 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 25.1(℃) Humidity: 49 %

Limit: FCC part 15.407 band edge (PK) Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5044.400	48.99	-8.99	40.00	74.00	-34.00	peak	P	
2	5150.000	46.44	-8.59	37.85	74.00	-36.15	peak	P	

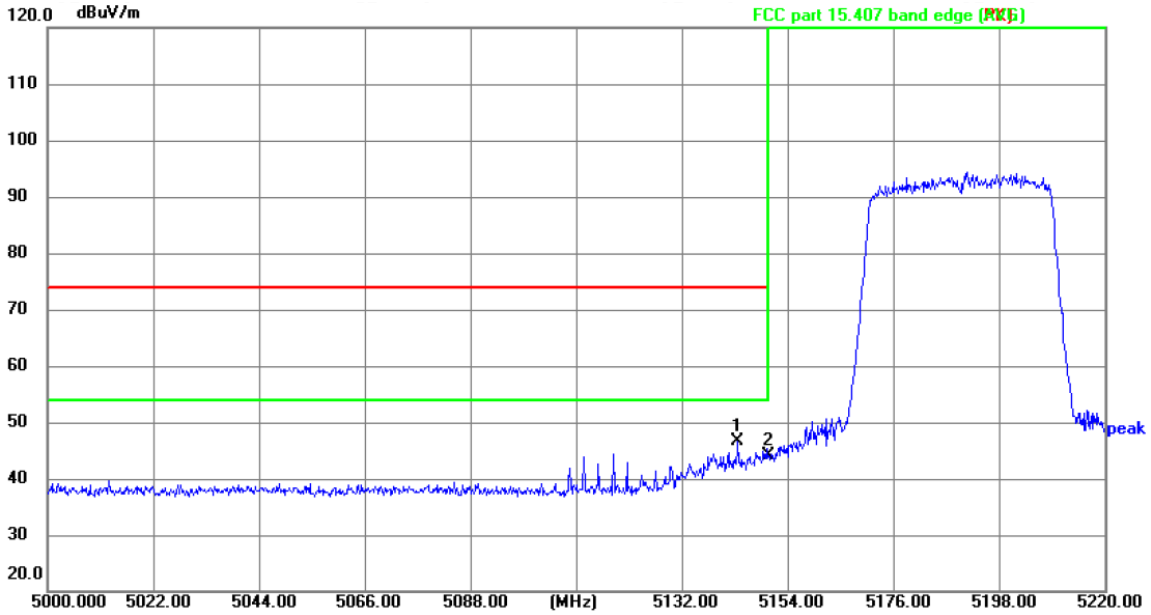
AX40-5190



Site: 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 25.1(℃) Humidity: 49 %

Limit: FCC part 15.407 band edge (PK) Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5138.050	49.49	-8.63	40.86	74.00	-33.14	peak	P	
2	5150.000	49.41	-8.59	40.82	74.00	-33.18	peak	P	

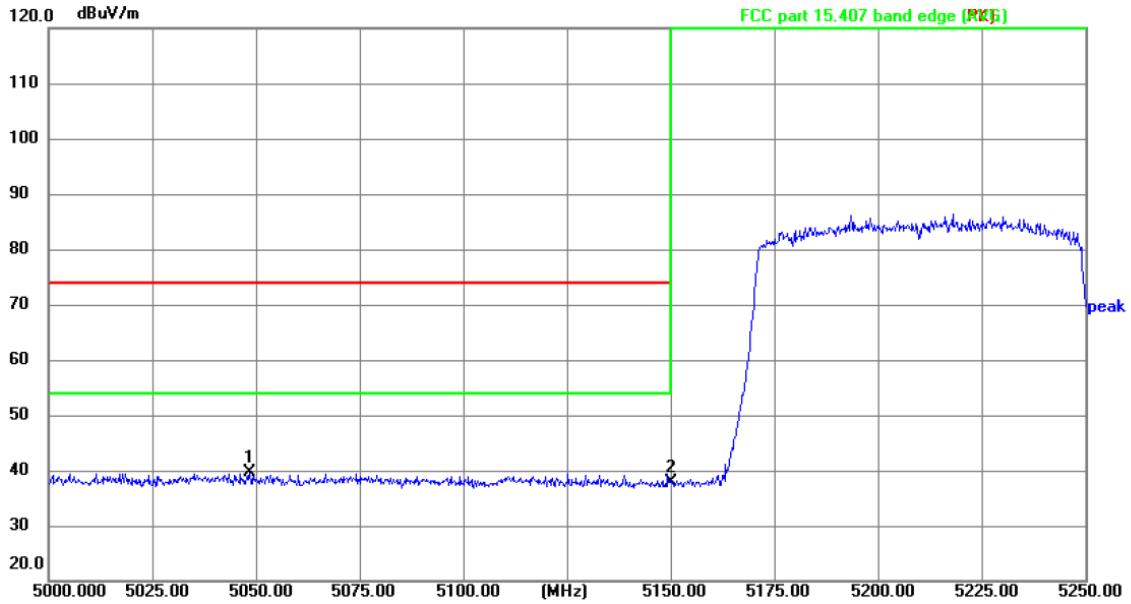


Site: 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 25.1(℃) Humidity: 49 %

Limit: FCC part 15.407 band edge (PK) Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5143.660	55.21	-8.61	46.60	74.00	-27.40	peak	P	
2	5150.000	52.61	-8.59	44.02	74.00	-29.98	peak	P	

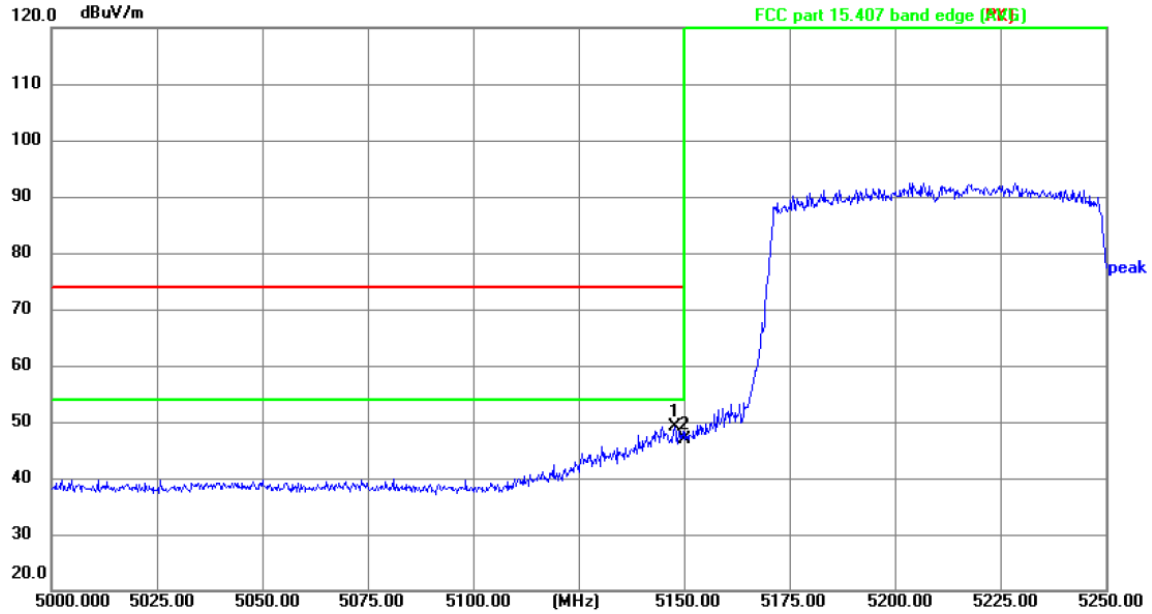
AX80-5210



Site: 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 25.1(℃) Humidity: 49 %

Limit: FCC part 15.407 band edge (PK) Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5048.625	48.51	-8.97	39.54	74.00	-34.46	peak	P	
2	5150.000	46.43	-8.59	37.84	74.00	-36.16	peak	P	

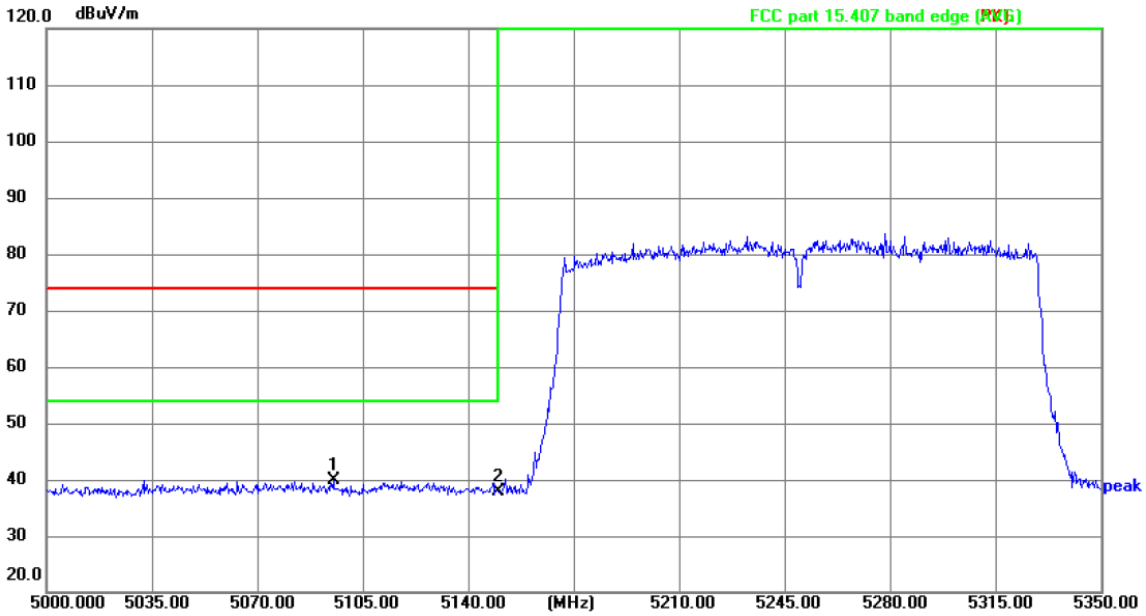


Site: 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 25.1(℃) Humidity: 49 %

Limit: FCC part 15.407 band edge (PK) Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5147.750	57.77	-8.60	49.17	74.00	-24.83	peak	P	
2	5150.000	55.50	-8.59	46.91	74.00	-27.09	peak	P	

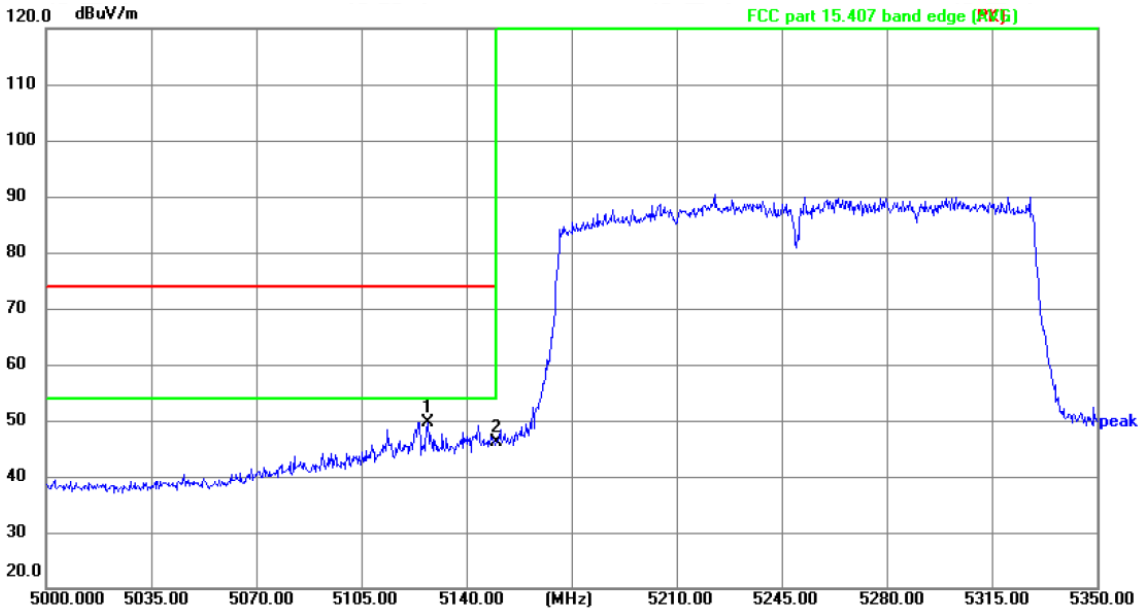
AX160-5250



Site: 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 25.1(℃) Humidity: 49 %

Limit: FCC part 15.407 band edge (PK) Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5095.375	48.63	-8.76	39.87	74.00	-34.13	peak	P	
2	5150.000	46.51	-8.59	37.92	74.00	-36.08	peak	P	

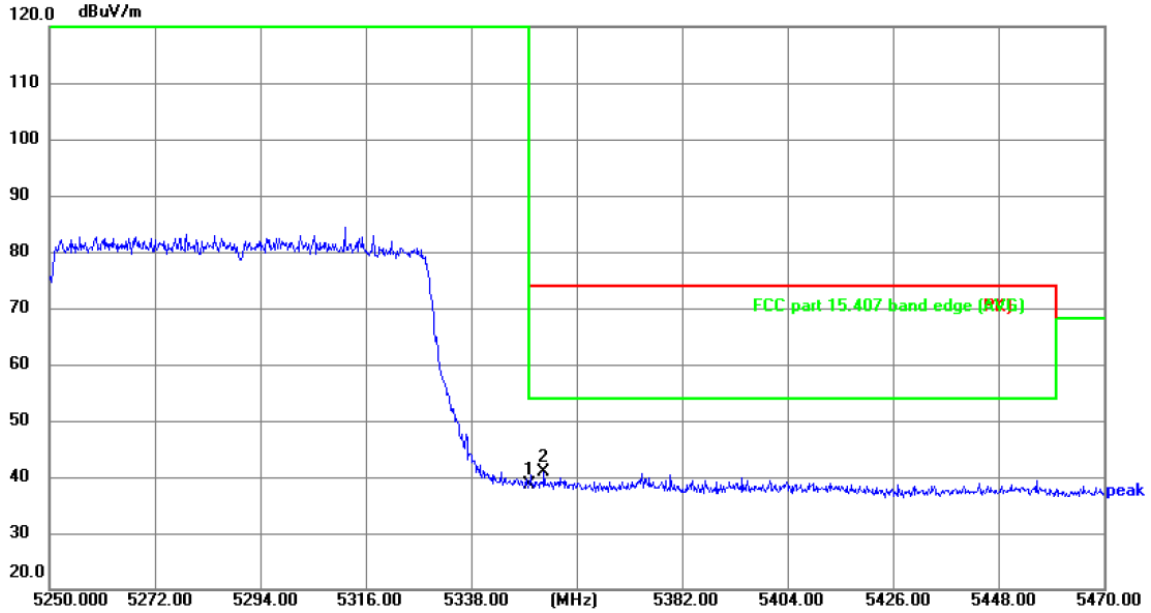


Site: 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 25.1(℃) Humidity: 49 %

Limit: FCC part 15.407 band edge (PK) Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5127.050	58.26	-8.66	49.60	74.00	-24.40	peak	P	
2	5150.000	54.74	-8.59	46.15	74.00	-27.85	peak	P	

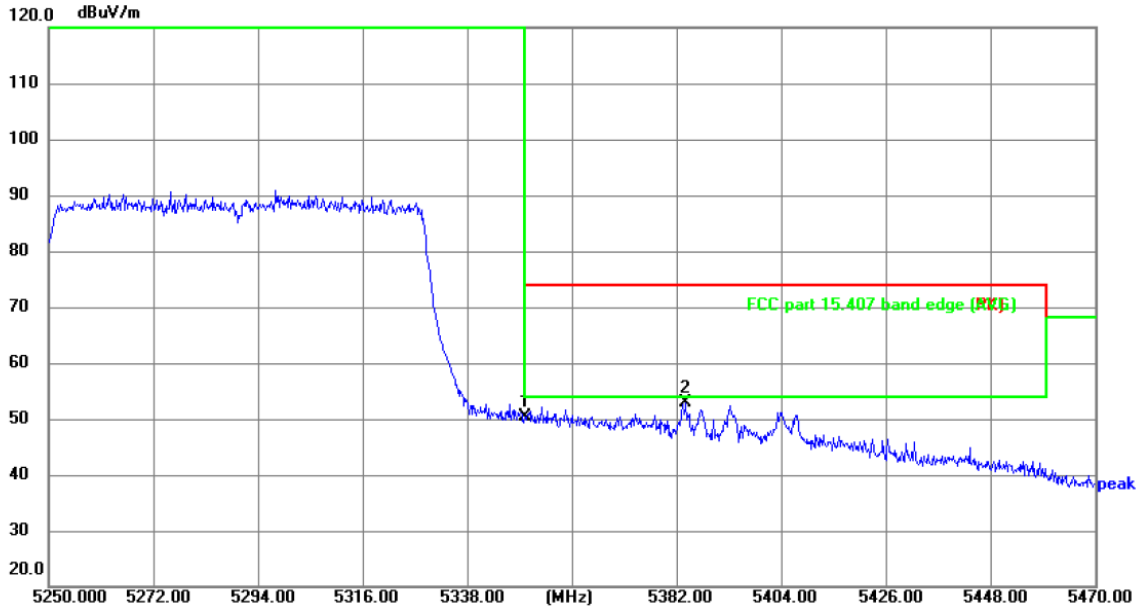
AX160-5250



Site: 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 25.1(℃) Humidity: 49 %

Limit: FCC part 15.407 band edge (PK) Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5350.000	46.70	-7.95	38.75	74.00	-35.25	peak	P	
2 *	5353.290	48.79	-7.94	40.85	74.00	-33.15	peak	P	

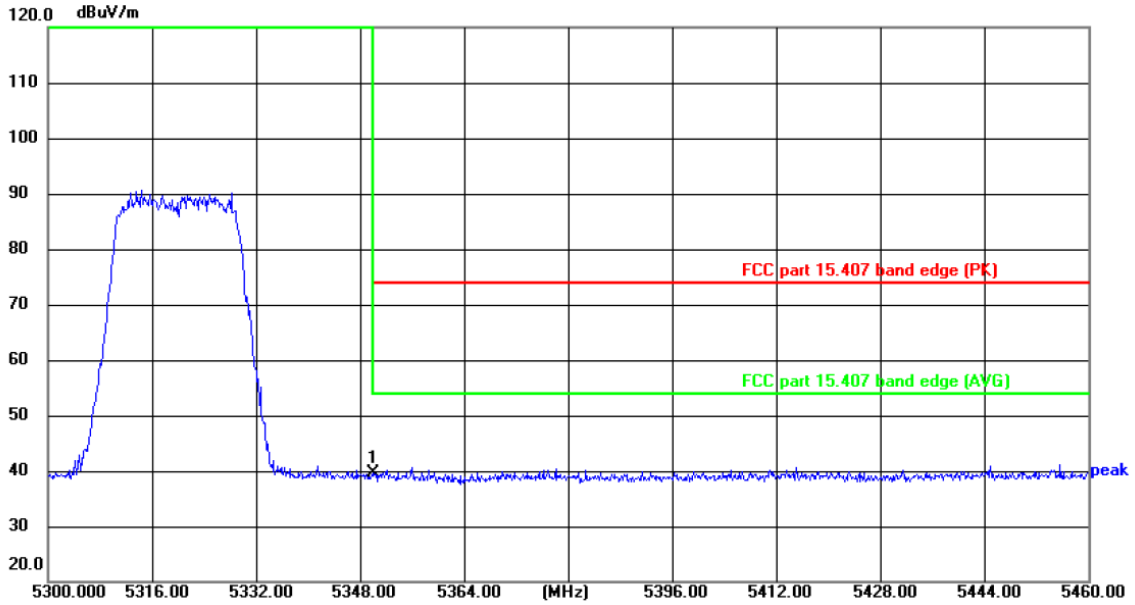


Site: 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 25.1(℃) Humidity: 49 %

Limit: FCC part 15.407 band edge (PK) Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5350.000	58.41	-7.95	50.46	74.00	-23.54	peak	P	
2 *	5384.090	60.74	-7.79	52.95	74.00	-21.05	peak	P	

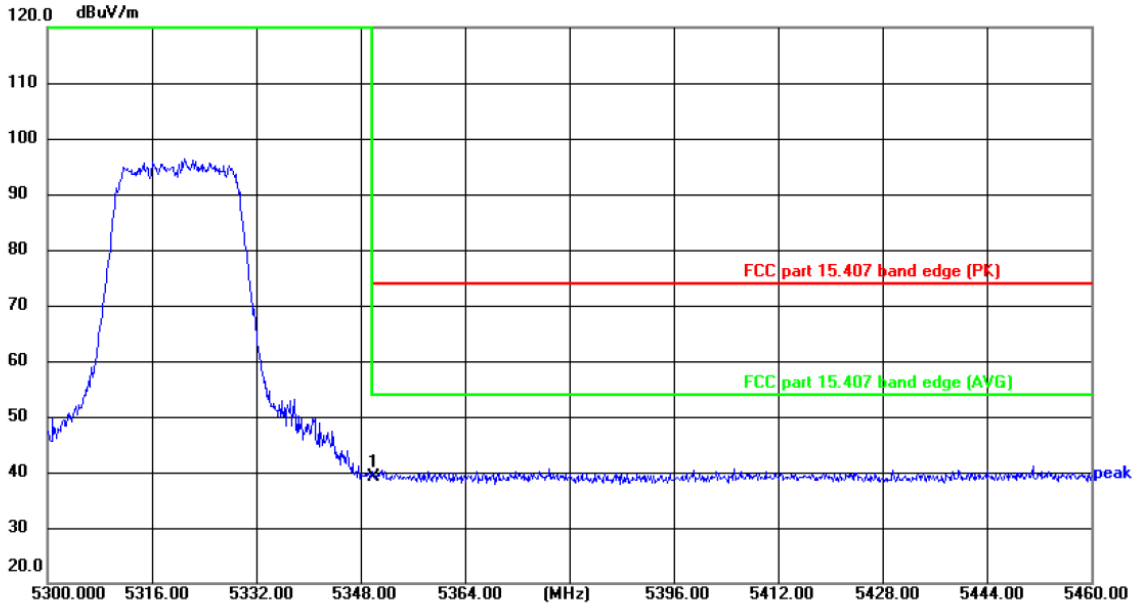
AX20-5320



Site: 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 24.8(℃) Humidity: 51 %

Limit: FCC part 15.407 band edge (PK) Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5350.000	47.49	-7.95	39.54	74.00	-34.46	peak	P	

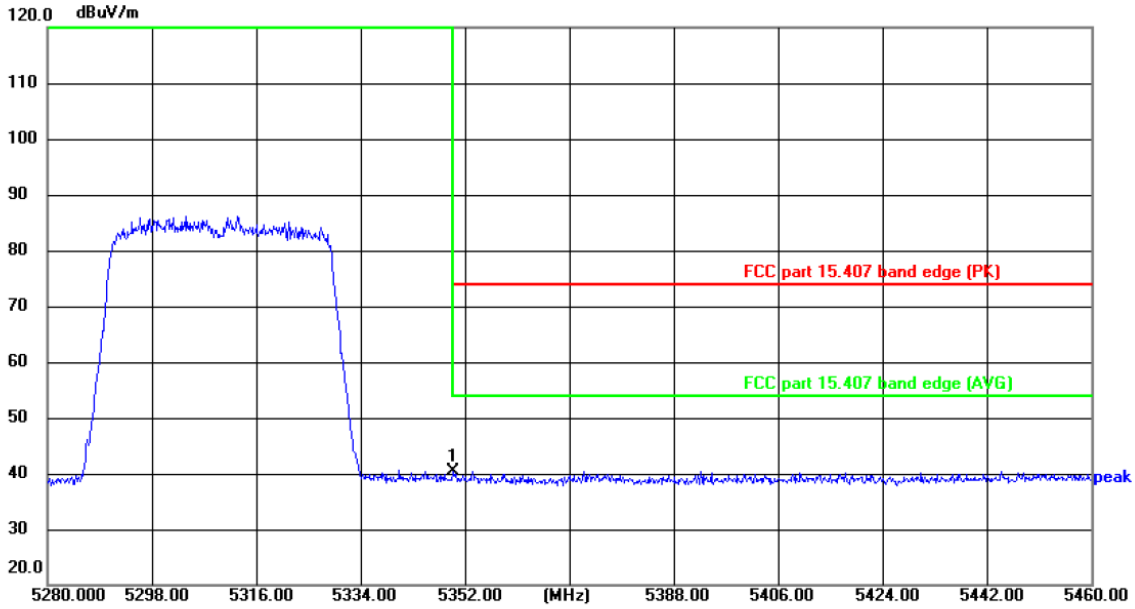


Site: 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 24.8(℃) Humidity: 51 %

Limit: FCC part 15.407 band edge (PK) Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5350.000	47.00	-7.95	39.05	74.00	-34.95	peak	P	

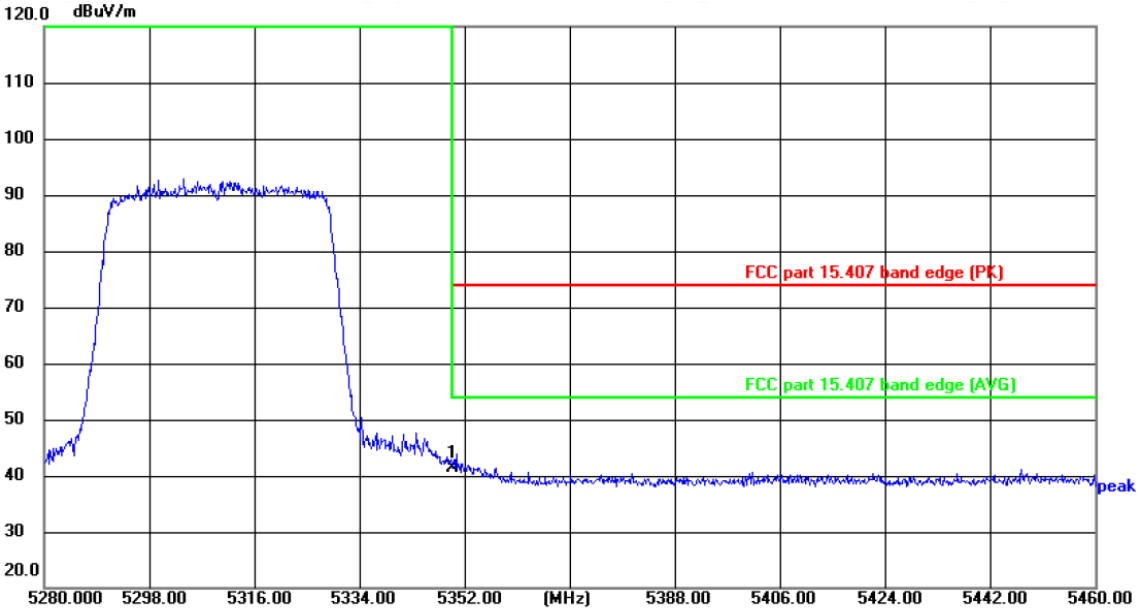
AX40-5310



Site: 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 24.8(℃) Humidity: 51 %

Limit: FCC part 15.407 band edge (PK) Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5350.000	48.31	-7.95	40.36	74.00	-33.64	peak	P	

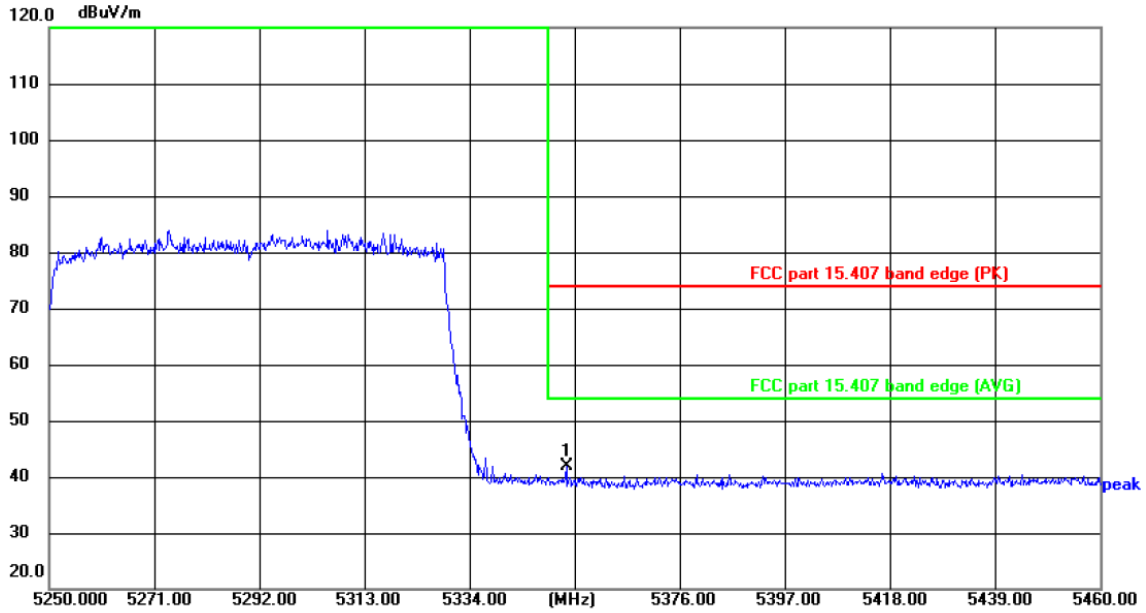


Site: 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 24.8(℃) Humidity: 51 %

Limit: FCC part 15.407 band edge (PK) Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5350.000	49.22	-7.95	41.27	74.00	-32.73	peak	P	

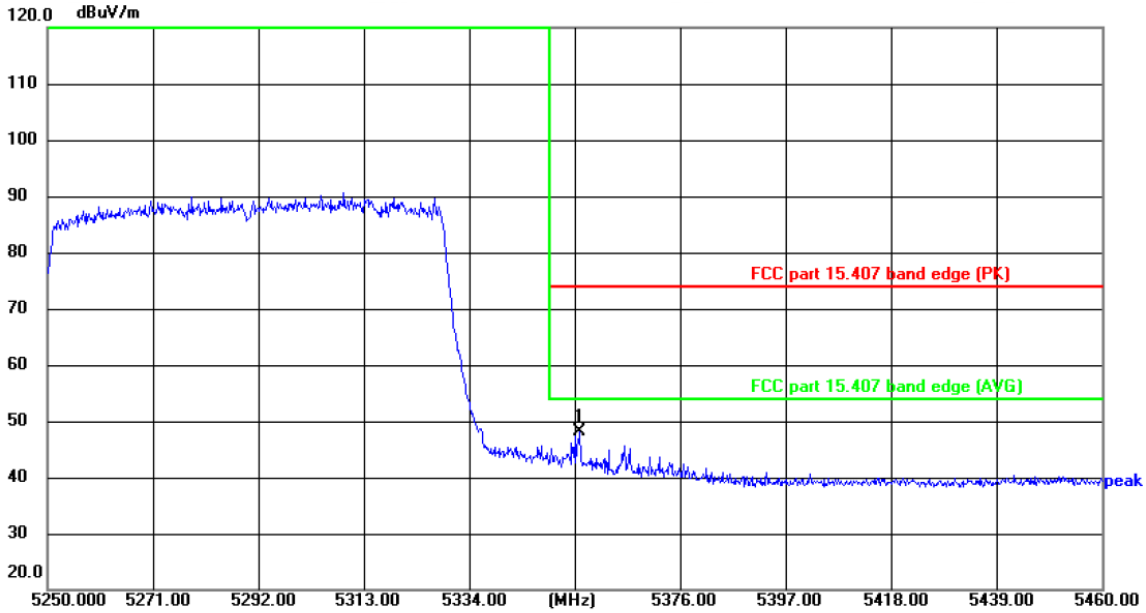
AX80-5290



Site: 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 24.8(℃) Humidity: 51 %

Limit: FCC part 15.407 band edge (PK) Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5353.341	49.81	-7.94	41.87	74.00	-32.13	peak	P	

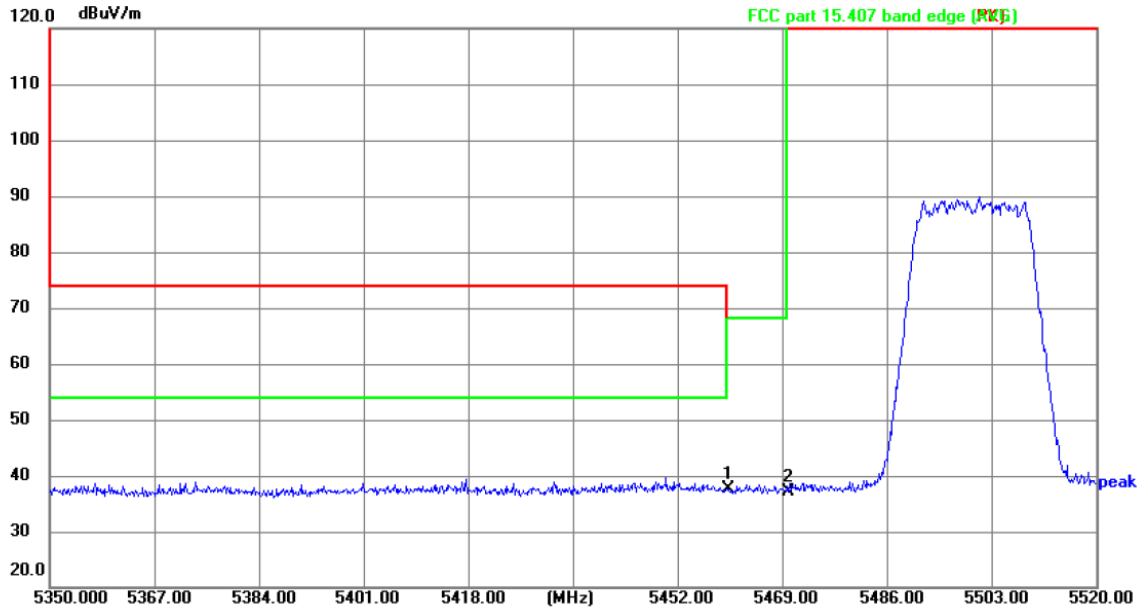


Site: 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 24.8(℃) Humidity: 51 %

Limit: FCC part 15.407 band edge (PK) Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5356.197	55.95	-7.94	48.01	74.00	-25.99	peak	P	

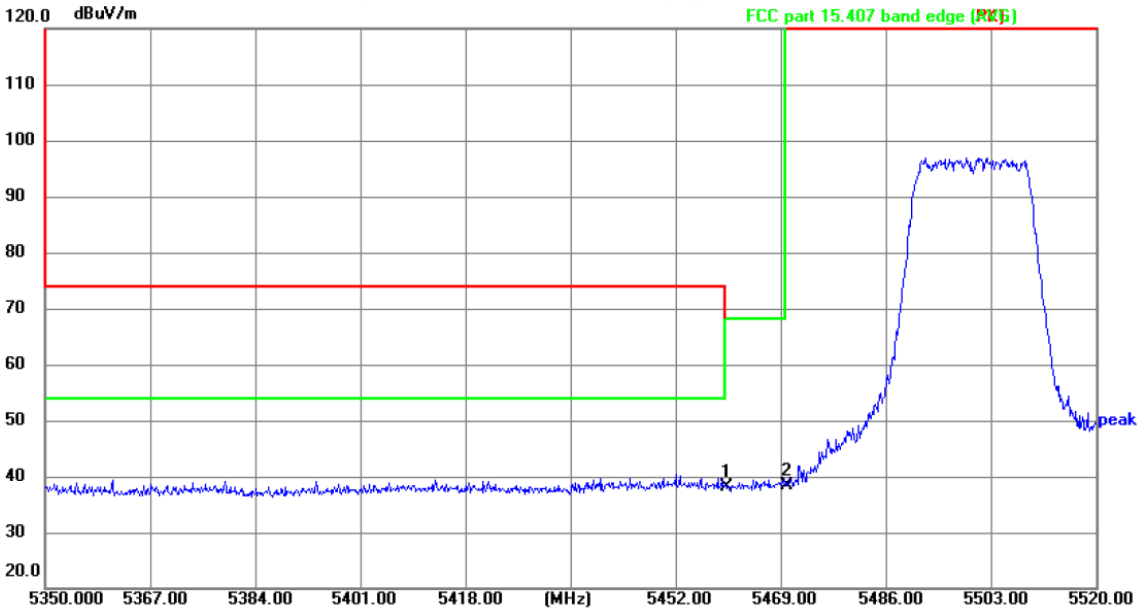
AX20-5500



Site: 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 25.1(℃) Humidity: 49 %

Limit: FCC part 15.407 band edge (PK) Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5460.000	44.99	-7.46	37.53	68.20	-30.67	peak	P	
2	5470.000	44.50	-7.43	37.07	68.20	-31.13	peak	P	

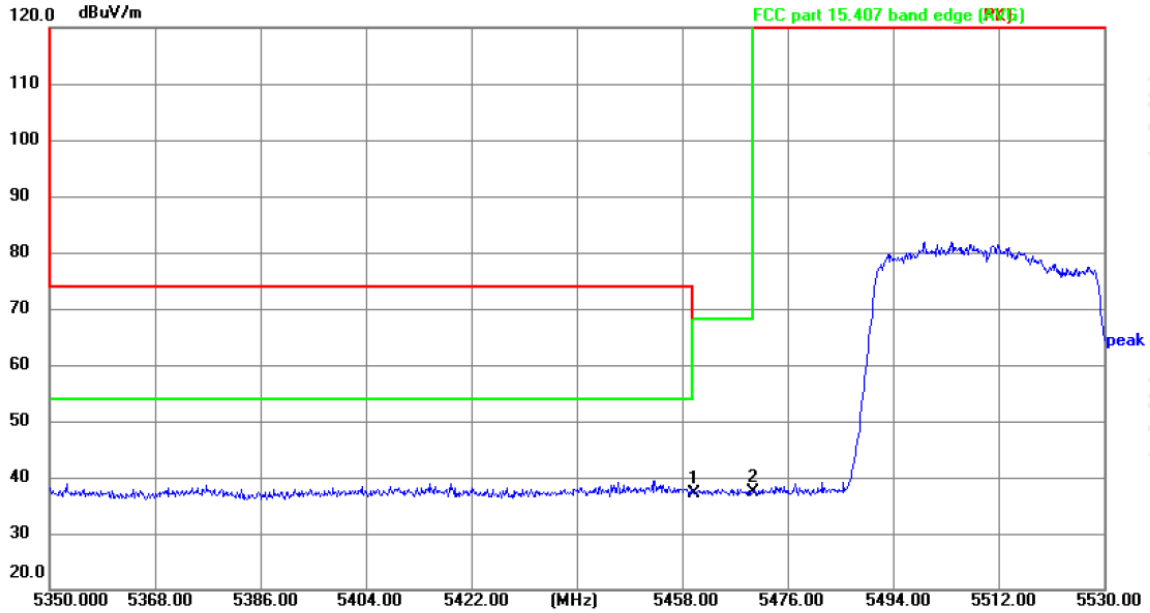


Site: 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 25.1(℃) Humidity: 49 %

Limit: FCC part 15.407 band edge (PK) Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5460.000	45.60	-7.46	38.14	68.20	-30.06	peak	P	
2 *	5470.000	45.84	-7.43	38.41	68.20	-29.79	peak	P	

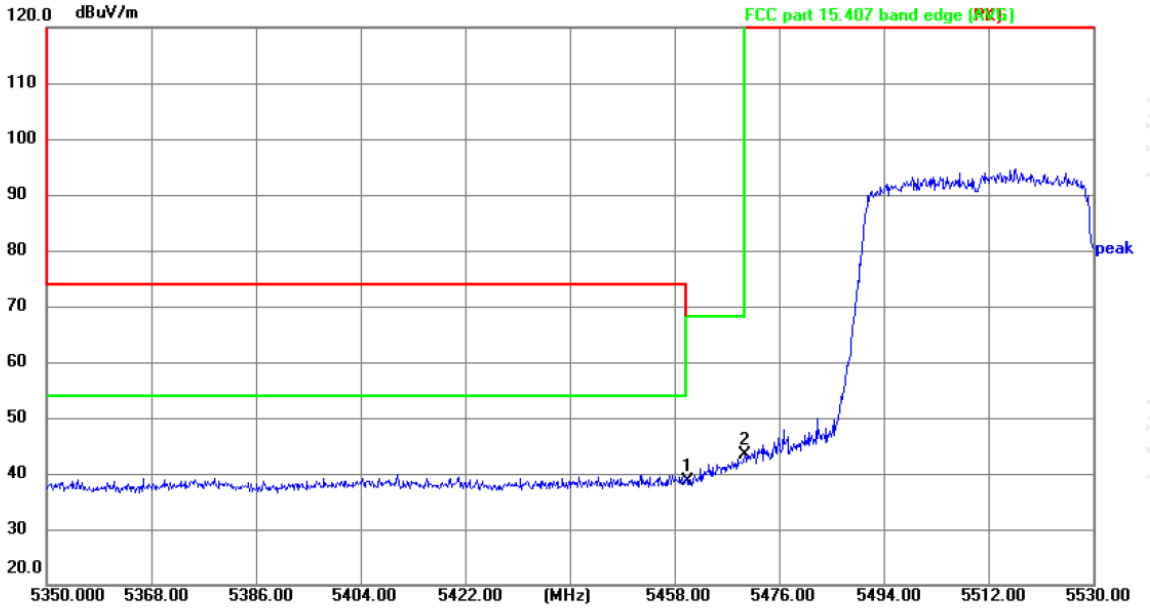
AX40-5510



Site: 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 25.1(℃) Humidity: 49 %

Limit: FCC part 15.407 band edge (PK) Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5460.000	44.49	-7.46	37.03	68.20	-31.17	peak	P	
2 *	5470.000	44.71	-7.43	37.28	68.20	-30.92	peak	P	

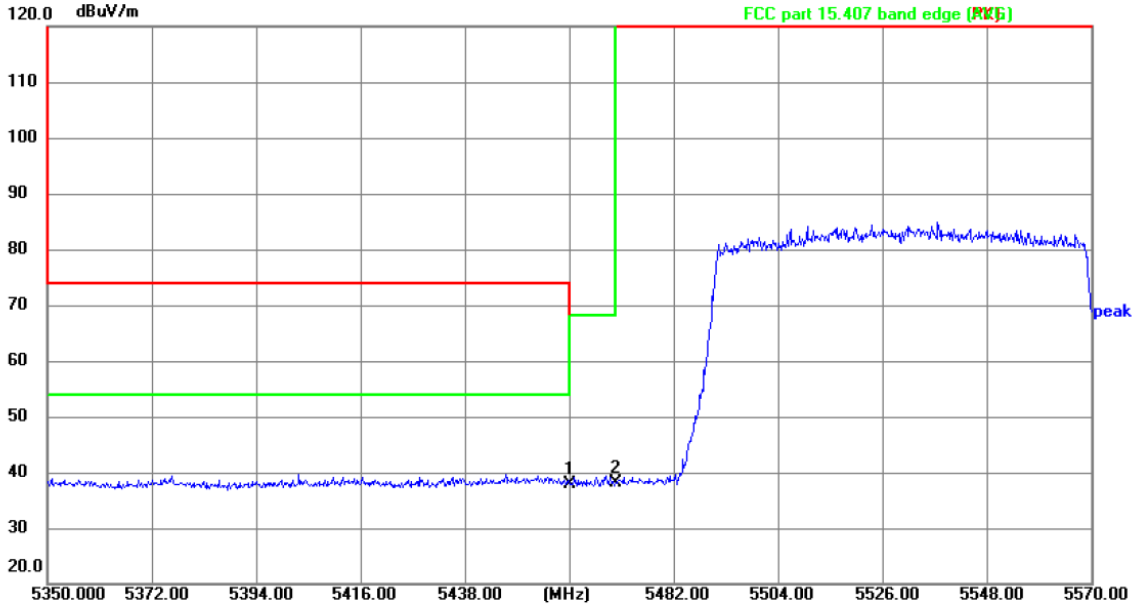


Site: 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 25.1(℃) Humidity: 49 %

Limit: FCC part 15.407 band edge (PK) Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5460.000	46.11	-7.46	38.65	68.20	-29.55	peak	P	
2 *	5470.000	50.70	-7.43	43.27	68.20	-24.93	peak	P	

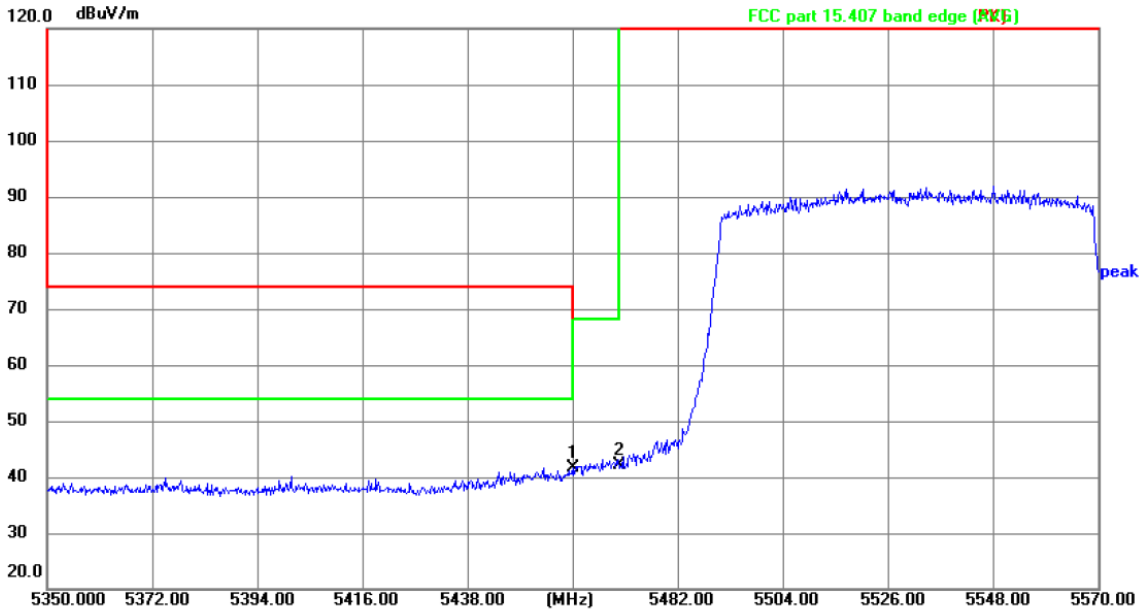
AX80-5530



Site: 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 25.1(℃) Humidity: 49 %

Limit: FCC part 15.407 band edge (PK) Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5460.000	45.32	-7.46	37.86	68.20	-30.34	peak	P	
2 *	5470.000	45.57	-7.43	38.14	68.20	-30.06	peak	P	

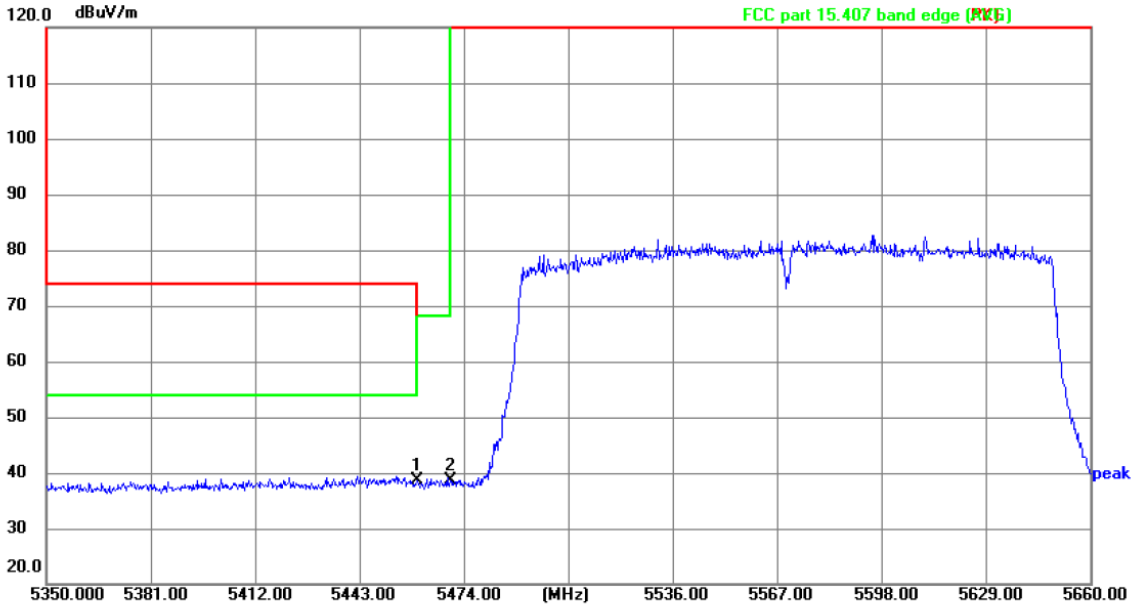


Site: 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 25.1(℃) Humidity: 49 %

Limit: FCC part 15.407 band edge (PK) Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5460.000	49.07	-7.46	41.61	68.20	-26.59	peak	P	
2 *	5470.000	49.63	-7.43	42.20	68.20	-26.00	peak	P	

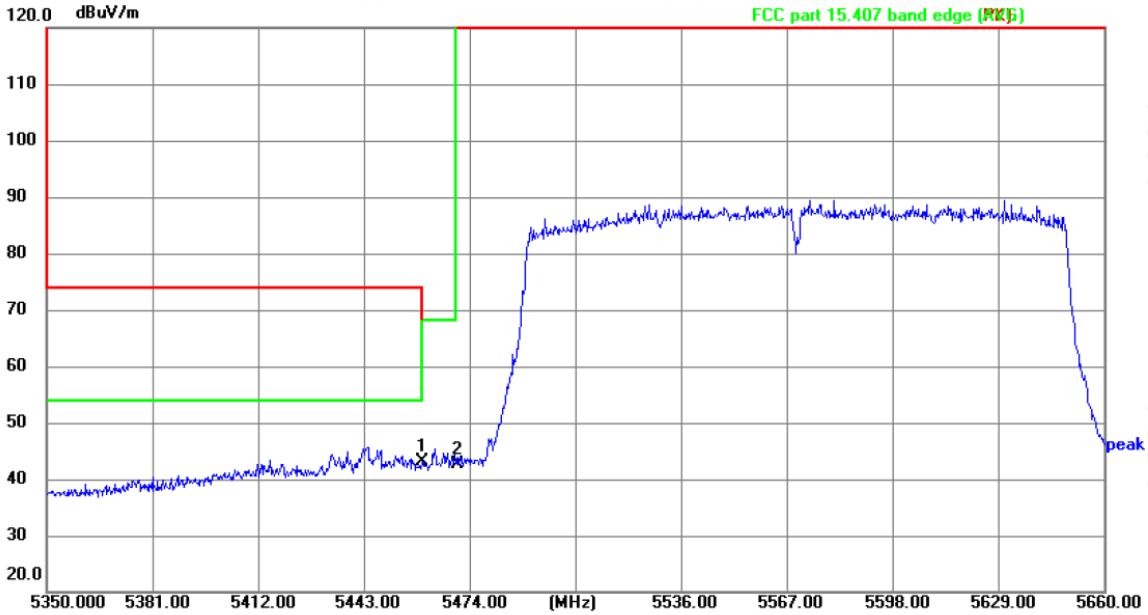
AX160-5570



Site: 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 25.1(℃) Humidity: 49 %

Limit: FCC part 15.407 band edge (PK) Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5460.000	46.12	-7.46	38.66	68.20	-29.54	peak	P	
2	5470.000	46.09	-7.43	38.66	68.20	-29.54	peak	P	

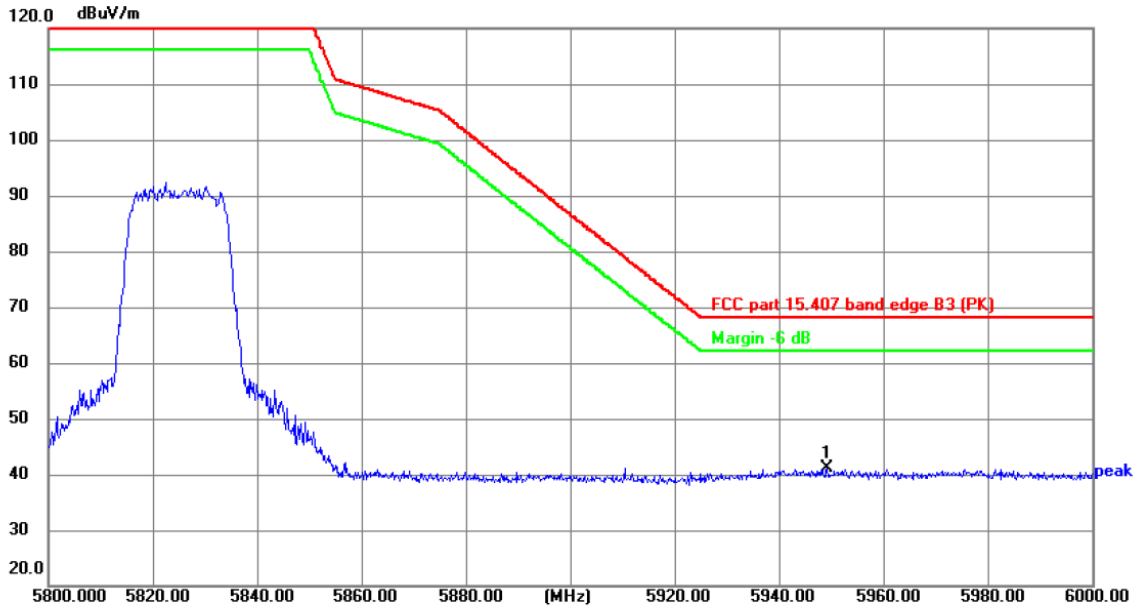


Site: 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 25.1(℃) Humidity: 49 %

Limit: FCC part 15.407 band edge (PK) Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5460.000	50.51	-7.46	43.05	68.20	-25.15	peak	P	
2	5470.000	50.14	-7.43	42.71	68.20	-25.49	peak	P	

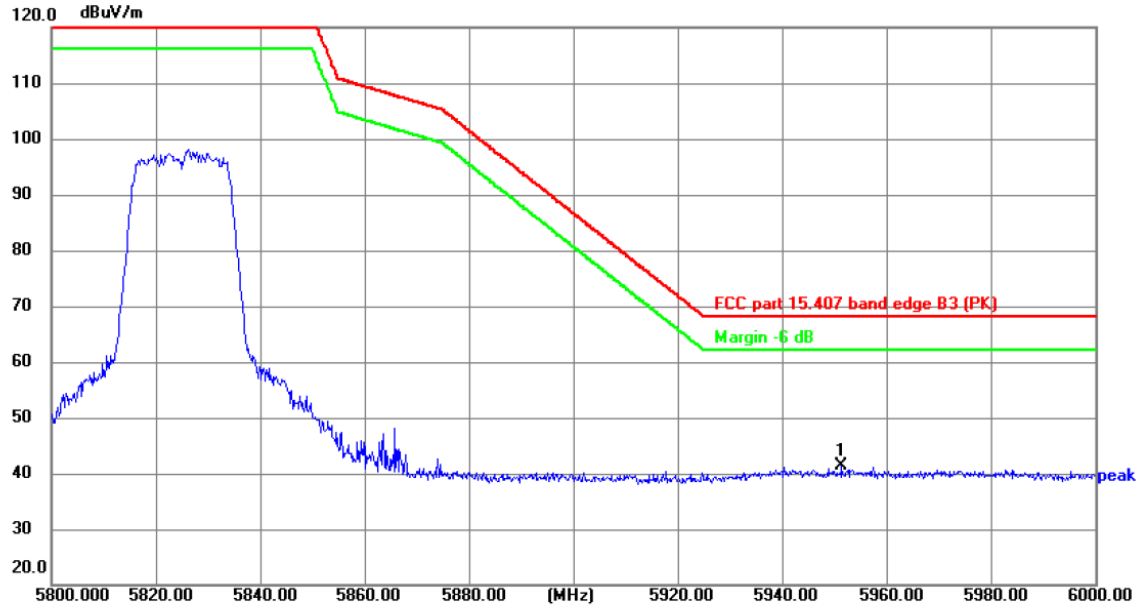
AX20-5825



Site: 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 25.1(℃) Humidity: 49 %

Limit: FCC part 15.407 band edge B3 (PK) Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5949.300	46.58	-5.55	41.03	68.20	-27.17	peak	P	

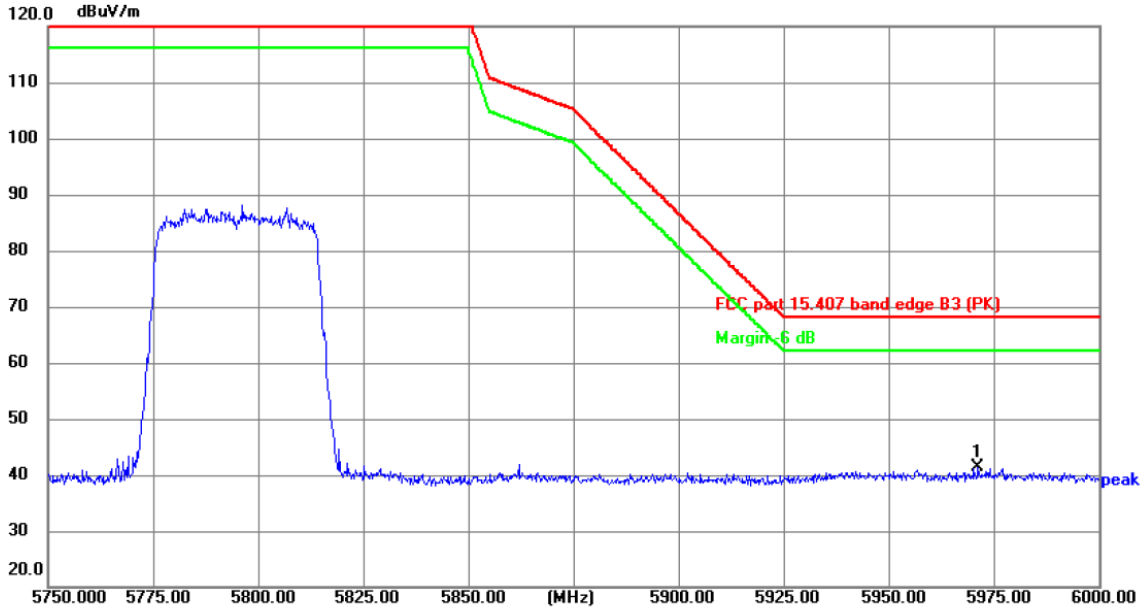


Site: 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 25.1(℃) Humidity: 49 %

Limit: FCC part 15.407 band edge B3 (PK) Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5951.400	46.85	-5.54	41.31	68.20	-26.89	peak	P	

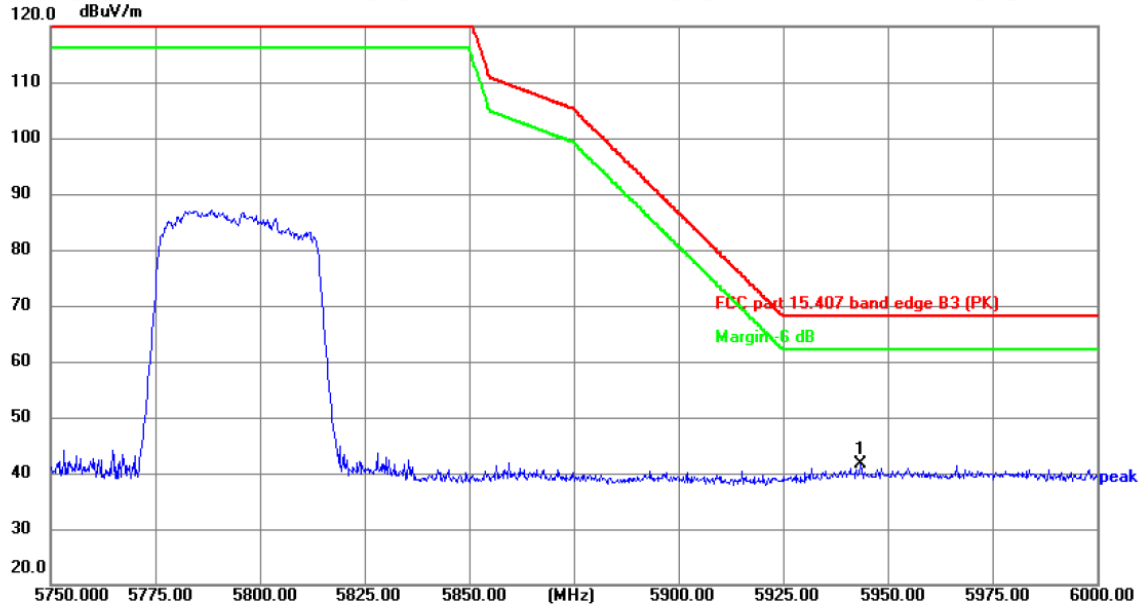
AX40-5795



Site: 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 25.1(℃) Humidity: 49 %

Limit: FCC part 15.407 band edge B3 (PK) Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5971.250	46.83	-5.44	41.39	68.20	-26.81	peak	P	

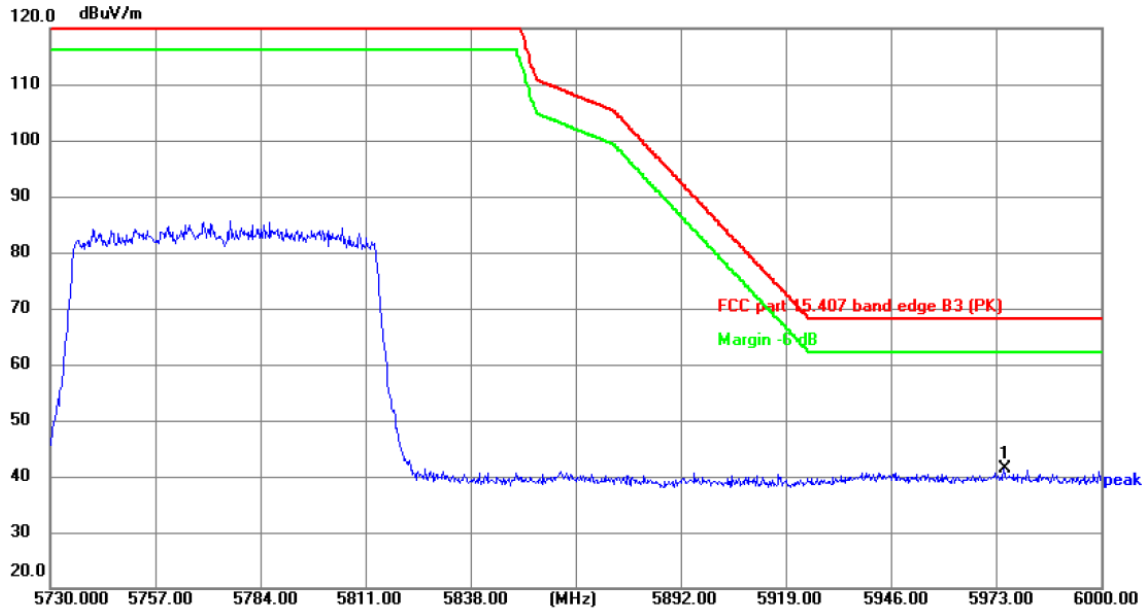


Site: 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 25.1(℃) Humidity: 49 %

Limit: FCC part 15.407 band edge B3 (PK) Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5943.500	47.09	-5.57	41.52	68.20	-26.68	peak	P	

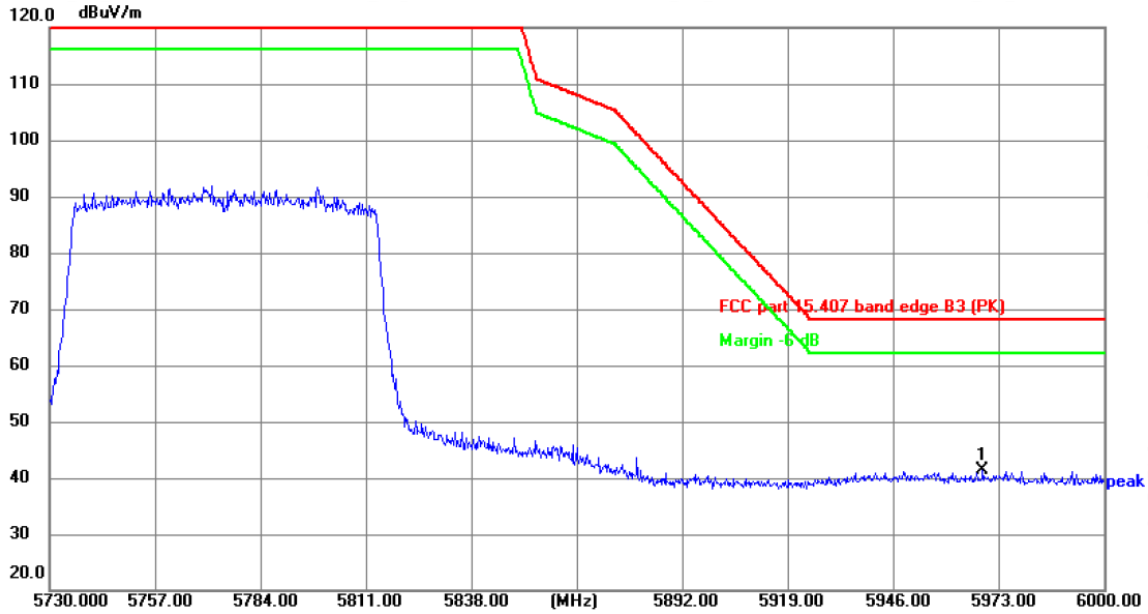
AX80-5775



Site: 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 25.1(℃) Humidity: 49 %

Limit: FCC part 15.407 band edge B3 (PK) Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5975.025	46.72	-5.43	41.29	68.20	-26.91	peak	P	



Site: 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 25.1(℃) Humidity: 49 %

Limit: FCC part 15.407 band edge B3 (PK) Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5969.085	46.80	-5.46	41.34	68.20	-26.86	peak	P	

Note: *All modulation (802.11a, 802.11n, 802.11ac, 802.11ax) have been tested, only the worst case in 802.11ax be reported.*

5.8. Unwanted Emissions

5.8.1. Test Specification

Test Requirement:	FCC CFR47 Part 15 Section 15.407 & 15.209 & 15.205
Test Method:	KDB 789033 D02 v02r01
Frequency Range:	9kHz to 40GHz
Measurement Distance:	3 m
Antenna Polarization:	Horizontal & Vertical
Operation mode:	Transmitting mode with modulation

Receiver Setup:

Frequency	Detector	RBW	VBW	Remark
9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value
150kHz-30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
Above 1GHz	Peak	1MHz	3MHz	Peak Value
	Peak	1MHz	10Hz	Average Value

Limit:

Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table,

In restricted bands:

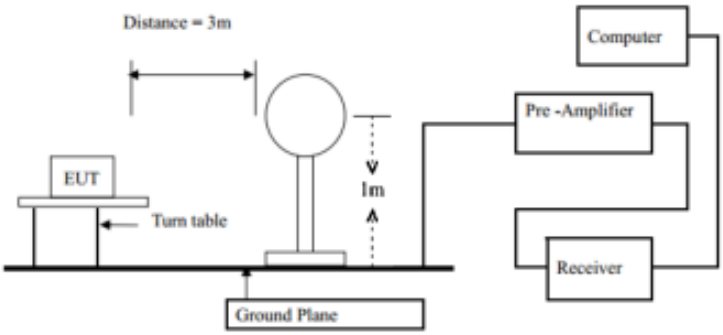
Frequency	Detector	Limit@3m
Above 1G	Peak	74dBμV/m
	AVG	54dBμV/m

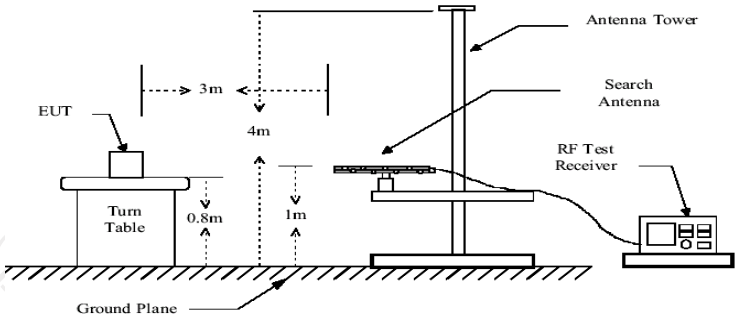
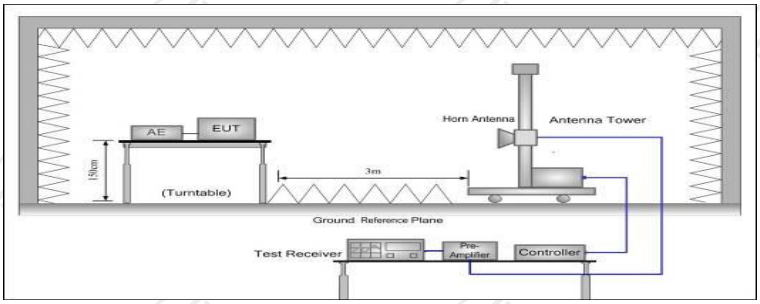
Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009-0.490	2400/F(KHz)	300
0.490-1.705	24000/F(KHz)	3
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

In un-restricted bands: 68.2dBuV/m

Test setup:

For radiated emissions below 30MHz



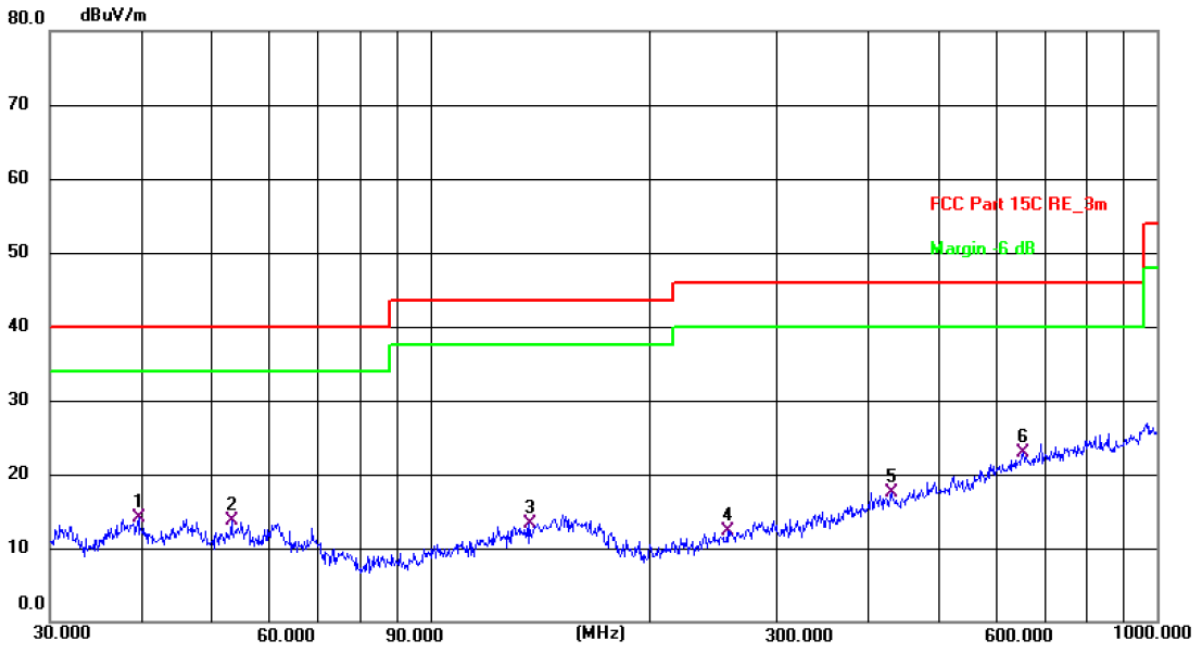
	30MHz to 1GHz  Above 1GHz 
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the groundat a 3 meter camber. The table was rotated 360 degrees todetermine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, whichwas mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and thenthe antenna was tuned to heights from 1 meter to 4 meters and the rotatablewas turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and SpecifiedBandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limitspecified, then testing could be stopped and the peak values of the EUT wouldbe reported. Otherwise the emissions that did not have 10dB margin would bere-tested one by one using peak, quasi-peak or average method as specified andthen reported in a data sheet.
Test results:	PASS

5.8.2. Test Data

Please refer to following diagram for individual

Below 1GHz

Horizontal:

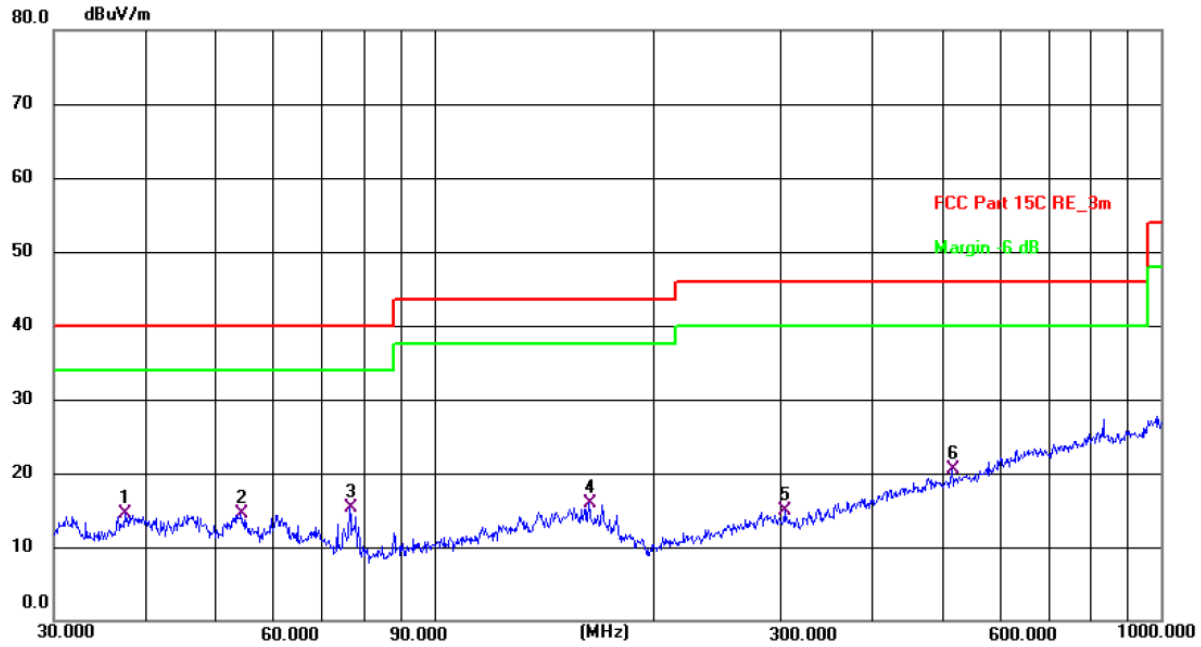


Site 3m Anechoic Chamber2 Polarization: *Horizontal* Temperature: 24.1(C) Humidity: 54 %

Limit: FCC Part 15C RE_3m Power: DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	39.7146	32.26	-18.22	14.04	40.00	-25.96	QP	P	
2	53.3179	32.32	-18.67	13.65	40.00	-26.35	QP	P	
3	136.9391	31.31	-17.93	13.38	43.50	-30.12	QP	P	
4	256.5211	30.77	-18.45	12.32	46.00	-33.68	QP	P	
5	431.0316	31.22	-13.65	17.57	46.00	-28.43	QP	P	
6 *	654.2318	30.87	-7.95	22.92	46.00	-23.08	QP	P	

Vertical:



Site 3m Anechoic Chamber2 Polarization: *Vertical* Temperature: 24.1(C) Humidity: 54 %

Limit: FCC Part 15C RE_3m Power: DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	37.5479	33.07	-18.61	14.46	40.00	-25.54	QP	P	
2	54.2610	33.17	-18.70	14.47	40.00	-25.53	QP	P	
3 *	76.5121	36.58	-21.21	15.37	40.00	-24.63	QP	P	
4	163.1818	32.76	-16.95	15.81	43.50	-27.69	QP	P	
5	303.5437	32.14	-17.30	14.84	46.00	-31.16	QP	P	
6	515.4374	32.33	-11.78	20.55	46.00	-25.45	QP	P	

Note: *1. The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported*

2. Measurements were conducted in all three channels (high, middle, low) and all modulation (802.11a, 802.11n(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80), 802.11ax(HE20), 802.11ax(HE40), 802.11ax(HE80), 802.11ax(HE160)) and the worst case Mode (Lowest and 802.11 ac(VHT40) transmit with antenna 3) was submitted only.

3.Measurement (dBµV) = Reading level + Correction Factor, correction Factor= Antenna Factor + Cable loss – Pre-amplifier.

Modulation Type: Band 1									
11a CH36: 5180MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10360	H	38.35	---	1.78	40.13	---	68.2	---	-28.07
15540	H	39.87	---	5.21	45.08	---	74	54	-8.92
---	H	---	---	---	---	---	---	---	---
10360	V	38.49	---	1.78	40.27	---	68.2	---	-27.93
15540	V	40.61	---	5.21	45.82	---	74	54	-8.18
---	V	---	---	---	---	----	---	---	---
11a CH40: 5200MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10400	H	39.77	---	1.83	41.6	---	68.2	---	-26.6
15600	H	40.08	---	5.23	45.31	---	74	54	-8.69
---	H	---	---	---	---	---	---	---	---
10400	V	40.34	---	1.83	42.17	---	68.2	---	-26.03
15600	V	40.95	---	5.23	46.18	---	74	54	-7.82
---	V	---	---	---	---	----	---	---	---
11a CH48: 5240MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10480	H	38.09	---	1.85	39.94	---	68.2	---	-28.26
15720	H	39.57	---	5.25	44.82	---	74	54	-9.18
---	H	---	---	---	---	---	---	---	---
10480	V	38.37	---	1.85	40.22	---	68.2	---	-27.98
15720	V	40.52	---	5.25	45.77	---	74	54	-8.23
---	V	---	---	---	---	----	---	---	---
11n(HT20) CH36: 5180MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10360	H	41.61	---	1.78	43.39	---	68.2	---	-24.81
15540	H	40.73	---	5.21	45.94	---	74	54	-8.06
---	H	---	---	---	---	---	---	---	---
10360	V	41.94	---	1.78	43.72	---	68.2	---	-24.48
15540	V	41.37	---	5.21	46.58	---	74	54	-7.42
---	V	---	---	---	---	----	---	---	---

11n(HT20) CH40: 5200MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10400	H	40.55	---	1.83	42.38	---	68.2	---	-25.82
15600	H	41.08	---	5.23	46.31	---	74	54	-7.69
---	H	---	---	---	---	---	---	---	---
10400	V	40.13	---	1.83	41.96	---	68.2	---	-26.24
15600	V	39.78	---	5.23	45.01	---	74	54	-8.99
---	V	---	---	---	---	----	---	---	---

11n(HT20) CH48: 5240MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10480	H	41.51	---	1.85	43.36	---	68.2	---	-24.84
15720	H	41.52	---	5.25	46.77	---	74	54	-7.23
---	H	---	---	---	---	---	---	---	---
10480	V	40.16	---	1.85	42.01	---	68.2	---	-26.19
15720	V	39.93	---	5.25	45.18	---	74	54	-8.82
---	V	---	---	---	---	----	---	---	---

11n(HT40) CH38: 5190MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10380	H	39.77	---	1.80	41.57	---	68.2	---	-26.63
15570	H	41.52	---	5.22	46.74	---	74	54	-7.26
---	H	---	---	---	---	---	---	---	---
10380	V	40.84	---	1.80	42.64	---	68.2	---	-25.56
15570	V	39.15	---	5.22	44.37	---	74	54	-9.63
---	V	---	---	---	---	----	---	---	---

11n(HT40) CH46: 5230MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10460	H	41.57	---	1.85	43.42	---	68.2	---	-24.78
15690	H	38.94	---	5.08	44.02	---	74	54	-9.98
---	H	---	---	---	---	---	---	---	---
10460	V	41.36	---	1.85	43.21	---	68.2	---	-24.99
15690	V	40.25	---	5.08	45.33	---	74	54	-8.67
---	V	---	---	---	---	----	---	---	---

11ac(VHT20) CH36: 5180MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10360	H	40.29	---	1.78	42.07	---	68.2	---	-26.13
15540	H	39.77	---	5.21	44.98	---	74	54	-9.02
---	H	---	---	---	---	---	---	---	---
10360	V	38.46	---	1.78	40.24	---	68.2	---	-27.96
15540	V	38.94	---	5.21	44.15	---	74	54	-9.85
---	V	---	---	---	---	----	---	---	---

11ac(VHT20) CH40: 5200MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10400	H	39.55	---	1.83	41.38	---	68.2	---	-26.82
15600	H	40.07	---	5.23	45.3	---	74	54	-8.7
---	H	---	---	---	---	---	---	---	---
10400	V	39.72	---	1.83	41.55	---	68.2	---	-26.65
15600	V	39.36	---	5.23	44.59	---	74	54	-9.41
---	V	---	---	---	---	----	---	---	---

11ac(VHT20) CH48:5240									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10480	H	37.63	---	1.85	39.48	---	68.2	---	-28.72
15720	H	38.92	---	5.25	44.17	---	74	54	-9.83
---	H	---	---	---	---	---	---	---	---
10480	V	38.14	---	1.85	39.99	---	68.2	---	-28.21
15720	V	39.37	---	5.25	44.62	---	74	54	-9.38
---	V	---	---	---	---	----	---	---	---

11ac(VHT40) CH38:5190									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10380	H	40.73	---	1.80	42.53	---	68.2	---	-25.67
15570	H	39.69	---	5.22	44.91	---	74	54	-9.09
---	H	---	---	---	---	---	---	---	---
10380	V	38.33	---	1.80	40.13	---	68.2	---	-28.07
15570	V	39.45	---	5.22	44.67	---	74	54	-9.33
---	V	---	---	---	---	----	---	---	---

11ac(VHT40) CH46:5230									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10460	H	38.51	---	1.85	40.36	---	68.2	---	-27.84
15690	H	39.85	---	5.08	44.93	---	74	54	-9.07
---	H	---	---	---	---	---	---	---	---
10460	V	39.43	---	1.85	41.28	---	68.2	---	-26.92
15690	V	40.28	---	5.08	45.36	---	74	54	-8.64
---	V	---	---	---	---	----	---	---	---

11ac(VHT80) CH42:5210									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10420	H	41.76	---	1.84	43.6	---	68.2	---	-24.6
15630	H	39.52	---	5.17	44.69	---	74	54	-9.31
---	H	---	---	---	---	---	---	---	---
10420	V	41.19	---	1.84	43.03	---	68.2	---	-25.17
15630	V	39.93	---	5.17	45.1	---	74	54	-8.9
---	V	---	---	---	---	----	---	---	---

11ax(HE20) CH36: 5180MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10360	H	38.93	---	1.78	40.71	---	68.2	---	-27.49
15540	H	40.42	---	5.21	45.63	---	74	54	-8.37
---	H	---	---	---	---	---	---	---	---
10360	V	38.07	---	1.78	39.85	---	68.2	---	-28.35
15540	V	40.53	---	5.21	45.74	---	74	54	-8.26
---	V	---	---	---	---	----	---	---	---

11ax(HE20) CH40: 5200MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10400	H	39.62	---	1.83	41.45	---	68.2	---	-26.75
15600	H	40.34	---	5.23	45.57	---	74	54	-8.43
---	H	---	---	---	---	---	---	---	---
10400	V	39.67	---	1.83	41.5	---	68.2	---	-26.7
15600	V	39.08	---	5.23	44.31	---	74	54	-9.69
---	V	---	---	---	---	----	---	---	---

11ax(HE20) CH48:5240									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10480	H	37.92	---	1.85	39.77	---	68.2	---	-28.43
15720	H	39.53	---	5.25	44.78	---	74	54	-9.22
---	H	---	---	---	---	---	---	---	---
10480	V	38.39	---	1.85	40.24	---	68.2	---	-27.96
15720	V	39.24	---	5.25	44.49	---	74	54	-9.51
---	V	---	---	---	---	----	---	---	---

11ax(HE40) CH38:5190									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10380	H	40.25	---	1.80	42.05	---	68.2	---	-26.15
15570	H	39.43	---	5.22	44.65	---	74	54	-9.35
---	H	---	---	---	---	---	---	---	---
10380	V	37.94	---	1.80	39.74	---	68.2	---	-28.46
15570	V	38.87	---	5.22	44.09	---	74	54	-9.91
---	V	---	---	---	---	----	---	---	---

11ax(HE40) CH46:5230									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10460	H	38.66	---	1.85	40.51	---	68.2	---	-27.69
15690	H	39.24	---	5.08	44.32	---	74	54	-9.68
---	H	---	---	---	---	---	---	---	---
10460	V	38.95	---	1.85	40.8	---	68.2	---	-27.4
15690	V	40.47	---	5.08	45.55	---	74	54	-8.45
---	V	---	---	---	---	----	---	---	---

11ax(HE80) CH42:5210									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10420	H	41.71	---	1.84	43.55	---	68.2	---	-24.65
15630	H	39.26	---	5.17	44.43	---	74	54	-9.57
---	H	---	---	---	---	---	---	---	---
10420	V	41.55	---	1.84	43.39	---	68.2	---	-24.81
15630	V	40.07	---	5.17	45.24	---	74	54	-8.76
---	V	---	---	---	---	----	---	---	---

11ax(HE160) CH50:5250									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
					Peak (dBµV/m)	AV (dBµV/m)			
10500	H	40.89	---	1.86	42.75	---	68.2	---	-25.45
15750	H	39.47	---	5.03	44.5	---	74	54	-9.5
---	H	---	---	---	---	---	---	---	---
10500	V	41.06	---	1.86	42.92	---	68.2	---	-25.28
15750	V	39.87	---	5.03	44.9	---	74	54	-9.1
---	V	---	---	---	---	----	---	---	---

Note:

1. *Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier*
2. *Margin (dB) = Emission Level (Peak) (dBµV/m)-Average limit (dBµV/m)*
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
4. *Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 40GHz.*
5. *Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.*

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Modulation Type: Band 2A									
11a CH52: 5260MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10520	H	38.07	---	1.87	39.94	---	68.2	---	-28.26
15780	H	39.29	---	5.01	44.3	---	74	54	-9.7
---	H	---	---	---	---	---	---	---	---
10520	V	41.66	---	1.87	43.53	---	68.2	---	-24.67
15780	V	40.52	---	5.01	45.53	---	74	54	-8.47
---	V	---	---	---	---	----	---	---	---
11a CH60: 5300MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10600	H	44.84	---	1.89	46.73	---	74	54	-7.27
15900	H	40.43	---	4.93	45.36	---	74	54	-8.64
---	H	---	---	---	---	---	---	---	---
10600	V	45.08	---	1.89	46.97	---	74	54	-7.03
15900	V	41.63	---	4.93	46.56	---	74	54	-7.44
---	V	---	---	---	---	----	---	---	---
11a CH64: 5320MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10640	H	44.47	---	1.94	46.41	---	74	54	-7.59
15960	H	39.71	---	4.83	44.54	---	74	54	-9.46
---	H	---	---	---	---	---	---	---	---
10640	V	44.93	---	1.94	46.87	---	74	54	-7.13
15960	V	41.14	---	4.83	45.97	---	74	54	-8.03
---	V	---	---	---	---	----	---	---	---
11n(HT20) C52: 5260MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10520	H	41.72	---	1.87	43.59	---	68.2	---	-24.61
15780	H	40.18	---	5.01	45.19	---	74	54	-8.81
---	H	---	---	---	---	---	---	---	---
10520	V	38.49	---	1.87	40.36	---	68.2	---	-27.84
15780	V	39.54	---	5.01	44.55	---	74	54	-9.45
---	V	---	---	---	---	----	---	---	---

11n(HT20) CH60: 5300MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10600	H	44.83	---	1.89	46.72	---	74	54	-7.28
15900	H	39.36	---	4.93	44.29	---	74	54	-9.71
---	H	---	---	---	---	---	---	---	---
10600	V	45.88	---	1.89	47.77	---	74	54	-6.23
15900	V	41.27	---	4.93	46.2	---	74	54	-7.8
---	V	---	---	---	---	----	---	---	---

11n(HT20) CH64: 5320MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10640	H	46.04	---	1.94	47.98	---	74	54	-6.02
15960	H	42.61	---	4.83	47.44	---	74	54	-6.56
---	H	---	---	---	---	---	---	---	---
10640	V	44.38	---	1.94	46.32	---	74	54	-7.68
15960	V	40.85	---	4.83	45.68	---	74	54	-8.32
---	V	---	---	---	---	----	---	---	---

11n(HT40) CH54: 5270MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10540	H	41.33	---	1.87	43.2	---	68.2	---	-25
15810	H	39.47	---	4.99	44.46	---	74	54	-9.54
---	H	---	---	---	---	---	---	---	---
10540	V	37.62	---	1.87	39.49	---	68.2	---	-28.71
15810	V	40.85	---	4.99	45.84	---	74	54	-8.16
---	V	---	---	---	---	----	---	---	---

11n(HT40) CH62: 5310MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10620	H	45.57	---	1.92	47.49	---	74	54	-6.51
15930	H	40.74	---	4.88	45.62	---	74	54	-8.38
---	H	---	---	---	---	---	---	---	---
10620	V	44.11	---	1.92	46.03	---	74	54	-7.97
15930	V	39.32	---	4.88	44.2	---	74	54	-9.8
---	V	---	---	---	---	----	---	---	---

11ac(VHT20) C52: 5260MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10520	H	40.46	---	1.87	42.33	---	68.2	---	-25.87
15780	H	39.34	---	5.01	44.35	---	74	54	-9.65
---	H	---	---	---	---	---	---	---	---
10520	V	40.71	---	1.87	42.58	---	68.2	---	-25.62
15780	V	40.13	---	5.01	45.14	---	74	54	-8.86
---	V	---	---	---	---	----	---	---	---

11ac(VHT20) CH60: 5300MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10600	H	43.46	---	1.89	45.35	---	74	54	-8.65
15900	H	40.17	---	4.93	45.1	---	74	54	-8.9
---	H	---	---	---	---	---	---	---	---
10600	V	43.92	---	1.89	45.81	---	74	54	-8.19
15900	V	40.78	---	4.93	45.71	---	74	54	-8.29
---	V	---	---	---	---	----	---	---	---

11ac(VHT20) CH64: 5320MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10640	H	43.36	---	1.94	45.3	---	74	54	-8.7
15960	H	39.55	---	4.83	44.38	---	74	54	-9.62
---	H	---	---	---	---	---	---	---	---
10640	V	44.83	---	1.94	46.77	---	74	54	-7.23
15960	V	39.16	---	4.83	43.99	---	74	54	-10.01
---	V	---	---	---	---	----	---	---	---

11ac(VHT40) CH54: 5270MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10540	H	40.73	---	1.87	42.6	---	68.2	---	-25.6
15810	H	39.17	---	4.99	44.16	---	74	54	-9.84
---	H	---	---	---	---	---	---	---	---
10540	V	39.55	---	1.87	41.42	---	68.2	---	-26.78
15810	V	39.79	---	4.99	44.78	---	74	54	-9.22
---	V	---	---	---	---	----	---	---	---

11ac(VHT40) CH62: 5310MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10620	H	44.47	---	1.92	46.39	---	74	54	-7.61
15930	H	39.62	---	4.88	44.5	---	74	54	-9.5
---	H	---	---	---	---	---	---	---	---
10620	V	43.82	---	1.92	45.74	---	74	54	-8.26
15930	V	39.96	---	4.88	44.84	---	74	54	-9.16
---	V	---	---	---	---	----	---	---	---

11ac(VHT80) C58:5290MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10580	H	45.79	---	1.88	47.67	---	74	54	-6.33
15870	H	42.41	---	4.96	47.37	---	74	54	-6.63
---	H	---	---	---	---	---	---	---	---
10580	V	44.08	---	1.88	45.96	---	74	54	-8.04
15870	V	40.85	---	4.96	45.81	---	74	54	-8.19
---	V	---	---	---	---	----	---	---	---

11ax(HE20) C52: 5260MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10520	H	40.39	---	1.87	42.26	---	68.2	---	-25.94
15780	H	39.81	---	5.01	44.82	---	74	54	-9.18
---	H	---	---	---	---	---	---	---	---
10520	V	40.66	---	1.87	42.53	---	68.2	---	-25.67
15780	V	39.57	---	5.01	44.58	---	74	54	-9.42
---	V	---	---	---	---	----	---	---	---

11ax(HE20) CH60: 5300MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10600	H	44.26	---	1.89	46.15	---	74	54	-7.85
15900	H	40.64	---	4.93	45.57	---	74	54	-8.43
---	H	---	---	---	---	---	---	---	---
10600	V	44.49	---	1.89	46.38	---	74	54	-7.62
15900	V	41.23	---	4.93	46.16	---	74	54	-7.84
---	V	---	---	---	---	----	---	---	---

11ax(HE20) CH64: 5320MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10640	H	45.47	---	1.94	47.41	---	74	54	-6.59
15960	H	41.66	---	4.83	46.49	---	74	54	-7.51
---	H	---	---	---	---	---	---	---	---
10640	V	46.08	---	1.94	48.02	---	74	54	-5.98
15960	V	41.19	---	4.83	46.02	---	74	54	-7.98
---	V	---	---	---	---	----	---	---	---

11ax(HE40) CH54: 5270MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10540	H	40.88	---	1.87	42.75	---	68.2	---	-25.45
15810	H	39.06	---	4.99	44.05	---	74	54	-9.95
---	H	---	---	---	---	---	---	---	---
10540	V	39.82	---	1.87	41.69	---	68.2	---	-26.51
15810	V	39.97	---	4.99	44.96	---	74	54	-9.04
---	V	---	---	---	---	----	---	---	---

11ax(HE40) CH62: 5310MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10620	H	44.43	---	1.92	46.35	---	74	54	-7.65
15930	H	39.61	---	4.88	44.49	---	74	54	-9.51
---	H	---	---	---	---	---	---	---	---
10620	V	45.77	---	1.92	47.69	---	74	54	-6.31
15930	V	40.08	---	4.88	44.96	---	74	54	-9.04
---	V	---	---	---	---	----	---	---	---

11ax(HE80) C58:5290MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10580	H	45.02	---	1.88	46.9	---	74	54	-7.1
15870	H	39.27	---	4.96	44.23	---	74	54	-9.77
---	H	---	---	---	---	---	---	---	---
10580	V	45.18	---	1.88	47.06	---	74	54	-6.94
15870	V	40.61	---	4.96	45.57	---	74	54	-8.43
---	V	---	---	---	---	----	---	---	---

Note:

1. *Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier*
2. *Margin (dB) = Emission Level (Peak) (dBµV/m)-Average limit (dBµV/m)*
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
4. *Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 40GHz.*
5. *Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.*

Modulation Type: Band 2C									
11a CH100: 5500MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11000	H	44.52	---	2.21	46.73	---	74	54	-7.27
16500	H	39.16	---	5.32	44.48	---	68.2	---	-23.72
---	H	---	---	---	---	---	---	---	---
11000	V	45.91	---	2.21	48.12	---	74	54	-5.88
16500	V	40.67	---	5.32	45.99	---	68.2	---	-22.21
---	V	---	---	---	---	----	---	---	---
11a CH120: 5600MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11200	H	45.07	---	2.34	47.41	---	74	54	-6.59
16800	H	40.66	---	5.62	46.28	---	68.2	---	-21.92
---	H	---	---	---	---	---	---	---	---
11200	V	44.78	---	2.34	47.12	---	74	54	-6.88
16800	V	38.94	---	5.62	44.56	---	68.2	---	-23.64
---	V	---	---	---	---	----	---	---	---
11a CH140: 5700MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11400	H	42.15	---	2.47	44.62	---	74	54	-9.38
17100	H	40.62	---	6.00	46.62	---	68.2	---	-21.58
---	H	---	---	---	---	---	---	---	---
11400	V	43.07	---	2.47	45.54	---	74	54	-8.46
17100	V	40.53	---	6.00	46.53	---	68.2	---	-21.67
---	V	---	---	---	---	----	---	---	---
11n(HT20) CH100: 5500MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11000	H	45.55	---	2.21	47.76	---	74	54	-6.24
16500	H	39.27	---	5.32	44.59	---	68.2	---	-23.61
---	H	---	---	---	---	---	---	---	---
11000	V	46.09	---	2.21	48.3	---	74	54	-5.7
16500	V	41.82	---	5.32	47.14	---	68.2	---	-21.06
---	V	---	---	---	---	----	---	---	---

11n(HT20) CH120: 5600MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11200	H	45.33	---	2.34	47.67	---	74	54	-6.33
16800	H	40.07	---	5.62	45.69	---	68.2	---	-22.51
---	H	---	---	---	---	---	---	---	---
11200	V	44.42	---	2.34	46.76	---	74	54	-7.24
16800	V	39.69	---	5.62	45.31	---	68.2	---	-22.89
---	V	---	---	---	---	----	---	---	---

11n(HT20) CH140: 5700MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11400	H	44.59	---	2.47	47.06	---	74	54	-6.94
17100	H	40.18	---	6.00	46.18	---	68.2	---	-22.02
---	H	---	---	---	---	---	---	---	---
11400	V	44.92	---	2.47	47.39	---	74	54	-6.61
17100	V	39.37	---	6.00	45.37	---	68.2	---	-22.83
---	V	---	---	---	---	----	---	---	---

11n(HT40) CH102: 5510MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11020	H	45.09	---	2.21	47.3	---	74	54	-6.7
16530	H	39.88	---	5.34	45.22	---	68.2	---	-22.98
---	H	---	---	---	---	---	---	---	---
11020	V	45.22	---	2.21	47.43	---	74	54	-6.57
16530	V	37.57	---	5.34	42.91	---	68.2	---	-25.29
---	V	---	---	---	---	----	---	---	---

11n(HT40) CH118: 5590MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11180	H	44.76	---	2.32	47.08	---	74	54	-6.92
16770	H	39.28	---	5.60	44.88	---	68.2	---	-23.32
---	H	---	---	---	---	---	---	---	---
11180	V	44.72	---	2.32	47.04	---	74	54	-6.96
16770	V	41.13	---	5.60	46.73	---	68.2	---	-21.47
---	V	---	---	---	---	----	---	---	---

11n(HT40) CH134: 5670MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11340	H	44.77	---	2.40	47.17	---	74	54	-6.83
17010	H	41.06	---	5.96	47.02	---	68.2	---	-21.18
---	H	---	---	---	---	---	---	---	---
11340	V	45.64	---	2.40	48.04	---	74	54	-5.96
17010	V	38.33	---	5.96	44.29	---	68.2	---	-23.91
---	V	---	---	---	---	----	---	---	---

11ac(VHT20) CH100: 5500MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11000	H	45.39	---	2.21	47.6	---	74	54	-6.4
16500	H	39.84	---	5.32	45.16	---	68.2	---	-23.04
---	H	---	---	---	---	---	---	---	---
11000	V	44.28	---	2.21	46.49	---	74	54	-7.51
16500	V	39.73	---	5.32	45.05	---	68.2	---	-23.15
---	V	---	---	---	---	----	---	---	---

11ac(VHT20) CH120: 5600MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11200	H	44.84	---	2.34	47.18	---	74	54	-6.82
16800	H	39.39	---	5.62	45.01	---	68.2	---	-23.19
---	H	---	---	---	---	---	---	---	---
11200	V	43.86	---	2.34	46.2	---	74	54	-7.8
16800	V	39.05	---	5.62	44.67	---	68.2	---	-23.53
---	V	---	---	---	---	----	---	---	---

11ac(VHT20) CH140: 5700MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11400	H	43.71	---	2.47	46.18	---	74	54	-7.82
17100	H	38.08	---	6.00	44.08	---	68.2	---	-24.12
---	H	---	---	---	---	---	---	---	---
11400	V	43.22	---	2.47	45.69	---	74	54	-8.31
17100	V	39.27	---	6.00	45.27	---	68.2	---	-22.93
---	V	---	---	---	---	----	---	---	---

11ac(VHT40) CH102: 5510MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11020	H	44.86	---	2.21	47.07	---	74	54	-6.93
16530	H	39.24	---	5.34	44.58	---	68.2	---	-23.62
---	H	---	---	---	---	---	---	---	---
11020	V	43.53	---	2.21	45.74	---	74	54	-8.26
16530	V	38.01	---	5.34	43.35	---	68.2	---	-24.85
---	V	---	---	---	---	----	---	---	---

11ac(VHT40) CH118: 5590MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11180	H	45.44	---	2.32	47.76	---	74	54	-6.24
16770	H	36.63	---	5.60	42.23	---	68.2	---	-25.97
---	H	---	---	---	---	---	---	---	---
11180	V	44.72	---	2.32	47.04	---	74	54	-6.96
16770	V	37.85	---	5.60	43.45	---	68.2	---	-24.75
---	V	---	---	---	---	----	---	---	---

11ac(VHT40) CH134: 5670MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11340	H	45.04	---	2.40	47.44	---	74	54	-6.56
17010	H	36.84	---	5.96	42.8	---	68.2	---	-25.4
---	H	---	---	---	---	---	---	---	---
11340	V	44.65	---	2.40	47.05	---	74	54	-6.95
17010	V	39.23	---	5.96	45.19	---	68.2	---	-23.01
---	V	---	---	---	---	----	---	---	---

11ac(VHT80) CH106: 5530MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11060	H	43.78	---	2.22	46	---	74	54	-8
16590	H	40.18	---	5.37	45.55	---	68.2	---	-22.65
---	H	---	---	---	---	---	---	---	---
11060	V	42.57	---	2.22	44.79	---	74	54	-9.21
16590	V	41.11	---	5.37	46.48	---	68.2	---	-21.72
---	V	---	---	---	---	----	---	---	---

11ac(VHT80) CH122: 5610MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11220	H	44.33	---	2.34	46.67	---	74	54	-7.33
16830	H	38.06	---	5.67	43.73	---	68.2	---	-24.47
---	H	---	---	---	---	---	---	---	---
11220	V	43.74	---	2.34	46.08	---	74	54	-7.92
16830	V	39.36	---	5.67	45.03	---	68.2	---	-23.17
---	V	---	---	---	---	----	---	---	---

11ax(HE20) CH100: 5500MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11000	H	44.05	---	2.21	46.26	---	74	54	-7.74
16500	H	39.77	---	5.32	45.09	---	68.2	---	-23.11
---	H	---	---	---	---	---	---	---	---
11000	V	44.26	---	2.21	46.47	---	74	54	-7.53
16500	V	39.66	---	5.32	44.98	---	68.2	---	-23.22
---	V	---	---	---	---	----	---	---	---

11ax(HE20) CH120: 5600MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11200	H	43.74	---	2.34	46.08	---	74	54	-7.92
16800	H	39.42	---	5.62	45.04	---	68.2	---	-23.16
---	H	---	---	---	---	---	---	---	---
11200	V	42.46	---	2.34	44.8	---	74	54	-9.2
16800	V	39.73	---	5.62	45.35	---	68.2	---	-22.85
---	V	---	---	---	---	----	---	---	---

11ax(HE20) CH140: 5700MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11400	H	44.61	---	2.47	47.08	---	74	54	-6.92
17100	H	38.23	---	6.00	44.23	---	68.2	---	-23.97
---	H	---	---	---	---	---	---	---	---
11400	V	43.92	---	2.47	46.39	---	74	54	-7.61
17100	V	39.71	---	6.00	45.71	---	68.2	---	-22.49
---	V	---	---	---	---	----	---	---	---

11ax(HE40) CH102: 5510MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11020	H	43.44	---	2.21	45.65	---	74	54	-8.35
16530	H	39.74	---	5.34	45.08	---	68.2	---	-23.12
---	H	---	---	---	---	---	---	---	---
11020	V	43.35	---	2.21	45.56	---	74	54	-8.44
16530	V	37.96	---	5.34	43.3	---	68.2	---	-24.9
---	V	---	---	---	---	----	---	---	---

11ax(HE40) CH118: 5590MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11180	H	44.92	---	2.32	47.24	---	74	54	-6.76
16770	H	36.74	---	5.60	42.34	---	68.2	---	-25.86
---	H	---	---	---	---	---	---	---	---
11180	V	44.15	---	2.32	46.47	---	74	54	-7.53
16770	V	37.07	---	5.60	42.67	---	68.2	---	-25.53
---	V	---	---	---	---	----	---	---	---

11ax(HE40) CH134: 5670MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11340	H	45.16	---	2.40	47.56	---	74	54	-6.44
17010	H	36.29	---	5.96	42.25	---	68.2	---	-25.95
---	H	---	---	---	---	---	---	---	---
11340	V	44.75	---	2.40	47.15	---	74	54	-6.85
17010	V	39.54	---	5.96	45.5	---	68.2	---	-22.7
---	V	---	---	---	---	----	---	---	---

11ax(HE80) CH106: 5530MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11060	H	44.03	---	2.22	46.25	---	74	54	-7.75
16590	H	40.47	---	5.37	45.84	---	68.2	---	-22.36
---	H	---	---	---	---	---	---	---	---
11060	V	43.55	---	2.22	45.77	---	74	54	-8.23
16590	V	40.86	---	5.37	46.23	---	68.2	---	-21.97
---	V	---	---	---	---	----	---	---	---

11ax(HE80) CH122: 5610MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11220	H	44.03	---	2.34	46.37	---	74	54	-7.63
16830	H	38.51	---	5.67	44.18	---	68.2	---	-24.02
---	H	---	---	---	---	---	---	---	---
11220	V	44.75	---	2.34	47.09	---	74	54	-6.91
16830	V	39.28	---	5.67	44.95	---	68.2	---	-23.25
---	V	---	---	---	---	----	---	---	---

11ax(HE160) CH114: 5570MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11140	H	44.37	---	2.27	46.64	---	74	54	-7.36
16710	H	37.95	---	5.56	43.51	---	68.2	---	-24.69
---	H	---	---	---	---	---	---	---	---
11140	V	44.62	---	2.27	46.89	---	74	54	-7.11
16710	V	39.17	---	5.56	44.73	---	68.2	---	-23.47
---	V	---	---	---	---	----	---	---	---

Note:

1. *Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier*
2. *Margin (dB) = Emission Level (Peak) (dBμV/m)-Average limit (dBμV/m)*
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
4. *Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 40GHz.*
5. *Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.*

Modulation Type: Band 3									
11a CH149: 5745MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11490	H	44.69	---	2.48	47.17	---	74	54	-6.83
17235	H	37.53	---	6.50	44.03	---	68.2	---	-24.17
---	H	---	---	---	---	---	---	---	---
11490	V	45.11	---	2.48	47.59	---	74	54	-6.41
17235	V	38.27	---	6.50	44.77	---	68.2	---	-23.43
---	V	---	---	---	---	----	---	---	---
11a CH157: 5785MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11570	H	43.36	---	2.42	45.78	---	74	54	-8.22
17355	H	38.65	---	7.03	45.68	---	68.2	---	-22.52
---	H	---	---	---	---	---	---	---	---
11570	V	43.78	---	2.42	46.2	---	74	54	-7.8
17355	V	39.17	---	7.03	46.2	---	68.2	---	-22
---	V	---	---	---	---	----	---	---	---
11a CH165: 5825MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11650	H	43.38	---	2.41	45.79	---	74	54	-8.21
17475	H	36.06	---	7.41	43.47	---	68.2	---	-24.73
---	H	---	---	---	---	---	---	---	---
11650	V	43.54	---	2.41	45.95	---	74	54	-8.05
17475	V	38.18	---	7.41	45.59	---	68.2	---	-22.61
---	V	---	---	---	---	----	---	---	---
11n(HT20) CH149: 5745MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11490	H	44.52	---	2.48	47	---	74	54	-7
17235	H	38.03	---	6.50	44.53	---	68.2	---	-23.67
---	H	---	---	---	---	---	---	---	---
11490	V	44.34	---	2.48	46.82	---	74	54	-7.18
17235	V	36.97	---	6.50	43.47	---	68.2	---	-24.73
---	V	---	---	---	---	----	---	---	---

11n(HT20) CH157: 5785MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11570	H	44.57	---	2.42	46.99	---	74	54	-7.01
17355	H	39.03	---	7.03	46.06	---	68.2	---	-22.14
---	H	---	---	---	---	---	---	---	---
11570	V	44.84	---	2.42	47.26	---	74	54	-6.74
17355	V	39.36	---	7.03	46.39	---	68.2	---	-21.81
---	V	---	---	---	---	----	---	---	---

11n(HT20) CH165: 5825MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11650	H	45.15	---	2.41	47.56	---	74	54	-6.44
17475	H	37.56	---	7.41	44.97	---	68.2	---	-23.23
---	H	---	---	---	---	---	---	---	---
11650	V	45.06	---	2.41	47.47	---	74	54	-6.53
17475	V	39.91	---	7.41	47.32	---	68.2	---	-20.88
---	V	---	---	---	---	----	---	---	---

11n(HT40) CH151: 5755MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11510	H	44.63	---	2.47	47.1	---	74	54	-6.9
17265	H	37.14	---	6.62	43.76	---	68.2	---	-24.44
---	H	---	---	---	---	---	---	---	---
11510	V	44.47	---	2.47	46.94	---	74	54	-7.06
17265	V	38.43	---	6.62	45.05	---	68.2	---	-23.15
---	V	---	---	---	---	----	---	---	---

11n(HT40) CH159: 5795MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11590	H	44.25	---	2.40	46.65	---	74	54	-7.35
17385	H	38.64	---	7.15	45.79	---	68.2	---	-22.41
---	H	---	---	---	---	---	---	---	---
11590	V	44.14	---	2.40	46.54	---	74	54	-7.46
17385	V	37.77	---	7.15	44.92	---	68.2	---	-23.28
---	V	---	---	---	---	----	---	---	---

11ac(VHT20) CH149: 5745MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11490	H	44.58	---	2.48	47.06	---	74	54	-6.94
17235	H	37.37	---	6.50	43.87	---	68.2	---	-24.33
---	H	---	---	---	---	---	---	---	---
11490	V	44.75	---	2.48	47.23	---	74	54	-6.77
17235	V	38.48	---	6.50	44.98	---	68.2	---	-23.22
---	V	---	---	---	---	----	---	---	---

11ac(VHT20) CH157: 5785MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11570	H	43.55	---	2.42	45.97	---	74	54	-8.03
17355	H	36.26	---	7.03	43.29	---	68.2	---	-24.91
---	H	---	---	---	---	---	---	---	---
11570	V	43.63	---	2.42	46.05	---	74	54	-7.95
17355	V	38.13	---	7.03	45.16	---	68.2	---	-23.04
---	V	---	---	---	---	----	---	---	---

11ac(VHT20) CH165: 5825MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11650	H	44.18	---	2.41	46.59	---	74	54	-7.41
17475	H	38.57	---	7.41	45.98	---	68.2	---	-22.22
---	H	---	---	---	---	---	---	---	---
11650	V	44.08	---	2.41	46.49	---	74	54	-7.51
17475	V	39.95	---	7.41	47.36	---	68.2	---	-20.84
---	V	---	---	---	---	----	---	---	---

11ac(VHT40) CH151: 5755MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11510	H	44.44	---	2.47	46.91	---	74	54	-7.09
17265	H	37.12	---	6.62	43.74	---	68.2	---	-24.46
---	H	---	---	---	---	---	---	---	---
11510	V	43.57	---	2.47	46.04	---	74	54	-7.96
17265	V	36.16	---	6.62	42.78	---	68.2	---	-25.42
---	V	---	---	---	---	----	---	---	---

11ac(VHT40) CH159: 5795MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11590	H	43.25	---	2.40	45.65	---	74	54	-8.35
17385	H	37.09	---	7.15	44.24	---	68.2	---	-23.96
---	H	---	---	---	---	---	---	---	---
11590	V	42.43	---	2.40	44.83	---	74	54	-9.17
17385	V	38.35	---	7.15	45.5	---	68.2	---	-22.7
---	V	---	---	---	---	----	---	---	---

11ac(VHT80) CH155: 5775MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11550	H	44.78	---	2.44	47.22	---	74	54	-6.78
17325	H	38.25	---	6.89	45.14	---	68.2	---	-23.06
---	H	---	---	---	---	---	---	---	---
11550	V	44.89	---	2.44	47.33	---	74	54	-6.67
17325	V	38.14	---	6.89	45.03	---	68.2	---	-23.17
---	V	---	---	---	---	----	---	---	---

11ax(HE20) CH149: 5745MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11490	H	45.16	---	2.48	47.64	---	74	54	-6.36
17235	H	37.63	---	6.50	44.13	---	68.2	---	-24.07
---	H	---	---	---	---	---	---	---	---
11490	V	44.92	---	2.48	47.4	---	74	54	-6.6
17235	V	37.96	---	6.50	44.46	---	68.2	---	-23.74
---	V	---	---	---	---	----	---	---	---

11ax(HE20) CH157: 5785MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11570	H	43.42	---	2.42	45.84	---	74	54	-8.16
17355	H	36.63	---	7.03	43.66	---	68.2	---	-24.54
---	H	---	---	---	---	---	---	---	---
11570	V	44.47	---	2.42	46.89	---	74	54	-7.11
17355	V	38.18	---	7.03	45.21	---	68.2	---	-22.99
---	V	---	---	---	---	----	---	---	---

11ax(HE20) CH165: 5825MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11650	H	43.33	---	2.41	45.74	---	74	54	-8.26
17475	H	38.92	---	7.41	46.33	---	68.2	---	-21.87
---	H	---	---	---	---	---	---	---	---
11650	V	43.54	---	2.41	45.95	---	74	54	-8.05
17475	V	39.48	---	7.41	46.89	---	68.2	---	-21.31
---	V	---	---	---	---	----	---	---	---

11ax(HE40) CH151: 5755MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11510	H	43.66	---	2.47	46.13	---	74	54	-7.87
17265	H	37.08	---	6.62	43.7	---	68.2	---	-24.5
---	H	---	---	---	---	---	---	---	---
11510	V	43.47	---	2.47	45.94	---	74	54	-8.06
17265	V	36.53	---	6.62	43.15	---	68.2	---	-25.05
---	V	---	---	---	---	----	---	---	---

11ax(HE40) CH159: 5795MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11590	H	44.46	---	2.40	46.86	---	74	54	-7.14
17385	H	37.35	---	7.15	44.5	---	68.2	---	-23.7
---	H	---	---	---	---	---	---	---	---
11590	V	43.54	---	2.40	45.94	---	74	54	-8.06
17385	V	38.06	---	7.15	45.21	---	68.2	---	-22.99
---	V	---	---	---	---	----	---	---	---

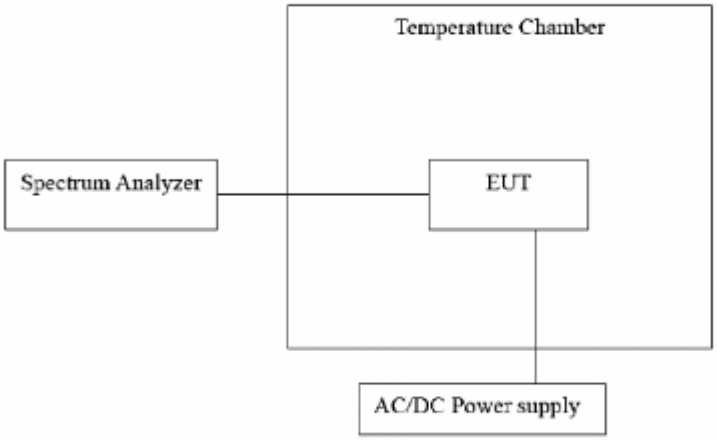
11ax(HE80) CH155: 5775MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11550	H	44.73	---	2.44	47.17	---	74	54	-6.83
17325	H	38.03	---	6.89	44.92	---	68.2	---	-23.28
---	H	---	---	---	---	---	---	---	---
11550	V	44.86	---	2.44	47.3	---	74	54	-6.7
17325	V	38.55	---	6.89	45.44	---	68.2	---	-22.76
---	V	---	---	---	---	----	---	---	---

Note:

1. *Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier*
2. *Margin (dB) = Emission Level (Peak) (dBμV/m)-Average limit (dBμV/m)*
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
4. *Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 40GHz.*
5. *Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.*

5.9. Frequency Stability Measurement

5.9.1. Test Specification

Test Requirement:	FCC Part15 Section 15.407(g) &Part2 J Section 2.1055
Test Method:	ANSI C63.10: 2013
Limit:	The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 45 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.
Test Setup:	
Test Procedure:	The EUT was placed inside the environmental test chamber and powered by nominal AC/DC voltage. b. Turn the EUT on and couple its output to a spectrum analyzer. c. Turn the EUT off and set the chamber to the highest temperature specified. d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature. f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.
Test Result:	PASS
Remark:	Pre-scan was performed at Antenna 3 and Antenna 2, the worst case was found. Only the test data 802.11ax of Antenna 2 was shown in this report.

Test plots as follows:

Test mode:	802.11ax(HE20)	Frequency(MHz):	5180	
Temperature (°C)	Voltage(V_{DC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.8V	5179.98	-20000	PASS
35		5179.96	-40000	PASS
25		5179.98	-20000	PASS
15		5179.96	-40000	PASS
5		5179.98	-20000	PASS
0		5179.98	-20000	PASS
20	3.23V	5179.94	-60000	PASS
	3.8V	5179.96	-40000	PASS
	4.37V	5179.96	-40000	PASS

Test mode:	802.11ax(HE20)	Frequency(MHz):	5200	
Temperature (°C)	Voltage(V_{DC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.8V	5199.96	-40000	PASS
35		5199.96	-40000	PASS
25		5199.96	-40000	PASS
15		5199.98	-20000	PASS
5		5199.98	-20000	PASS
0		5199.98	-20000	PASS
20	3.23V	5199.94	-60000	PASS
	3.8V	5199.96	-40000	PASS
	4.37V	5199.96	-40000	PASS

Test mode:	802.11ax(HE20)	Frequency(MHz):	5240	
Temperature (°C)	Voltage(V_{DC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.8V	5239.96	-40000	PASS
35		5239.98	-20000	PASS
25		5239.98	-20000	PASS
15		5239.96	-40000	PASS
5		5239.96	-40000	PASS
0		5239.96	-40000	PASS
20	3.23V	5239.96	-40000	PASS
	3.8V	5239.96	-40000	PASS
	4.37V	5239.96	-40000	PASS

Test mode:	802.11ax(HE20)	Frequency(MHz):	5745	
Temperature (°C)	Voltage(V_{DC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.8V	5744.96	-40000	PASS
35		5744.96	-40000	PASS
25		5744.98	-20000	PASS
15		5744.96	-40000	PASS
5		5744.98	-20000	PASS
0		5744.98	-20000	PASS
20	3.23V	5744.98	-20000	PASS
	3.8V	5744.96	-40000	PASS
	4.37V	5744.98	-20000	PASS

Test mode:	802.11ax(HE20)	Frequency(MHz):	5785	
Temperature (°C)	Voltage(V_{DC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.8V	5784.98	-20000	PASS
35		5784.94	-60000	PASS
25		5784.98	-20000	PASS
15		5784.96	-40000	PASS
5		5784.96	-40000	PASS
0		5784.94	-60000	PASS
20	3.23V	5784.98	-20000	PASS
	3.8V	5784.96	-40000	PASS
	4.37V	5784.96	-40000	PASS

Test mode:	802.11ax(HE20)	Frequency(MHz):	5825	
Temperature (°C)	Voltage(V_{DC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.8V	5824.98	-20000	PASS
35		5824.94	-60000	PASS
25		5824.94	-60000	PASS
15		5824.94	-60000	PASS
5		5824.96	-40000	PASS
0		5824.96	-40000	PASS
20	3.23V	5824.94	-60000	PASS
	3.8V	5824.94	-60000	PASS
	4.37V	5824.96	-40000	PASS

Test mode:	802.11ax(HE40)	Frequency(MHz):	5190
Temperature (°C)	Voltage(V_{DC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.8V	5189.96	-40000	PASS
35		5189.92	-80000	PASS
25		5190	0	PASS
15		5189.96	-40000	PASS
5		5189.92	-80000	PASS
0		5189.92	-80000	PASS
20	3.23V	5189.96	-40000	PASS
	3.8V	5189.96	-40000	PASS
	4.37V	5189.96	-40000	PASS

Test mode:	802.11ax(HE40)	Frequency(MHz):	5230
Temperature (°C)	Voltage(V_{DC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.8V	5229.92	-80000	PASS
35		5229.96	-40000	PASS
25		5229.96	-40000	PASS
15		5229.96	-40000	PASS
5		5229.92	-80000	PASS
0		5229.92	-80000	PASS
20	3.23V	5229.92	-80000	PASS
	3.8V	5230	0	PASS
	4.37V	5230	0	PASS

Test mode:	802.11ax(HE40)	Frequency(MHz):	5755
Temperature (°C)	Voltage(V_{DC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.8V	5754.96	-40000	PASS
35		5754.96	-40000	PASS
25		5754.96	-40000	PASS
15		5754.92	-80000	PASS
5		5754.92	-80000	PASS
0		5754.92	-80000	PASS
20	3.23V	5754.96	-40000	PASS
	3.8V	5754.96	-40000	PASS
	4.37V	5754.96	-40000	PASS

Test mode:	802.11ax(HE40)	Frequency(MHz):	5795
Temperature (°C)	Voltage(V_{DC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.8V	5794.96	-40000	PASS
35		5794.96	-40000	PASS
25		5795	0	PASS
15		5794.96	-40000	PASS
5		5794.96	-40000	PASS
0		5794.96	-40000	PASS
20	3.23V	5794.96	-40000	PASS
	3.8V	5794.96	-40000	PASS
	4.37V	5794.96	-40000	PASS

Test mode:	802.11ax(HE80)	Frequency(MHz):	5210
Temperature (°C)	Voltage(V_{DC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.8V	5209.92	-80000	PASS
35		5209.92	-80000	PASS
25		5209.92	-80000	PASS
15		5209.92	-80000	PASS
5		5209.92	-80000	PASS
0		5209.92	-80000	PASS
20	3.23V	5209.92	-80000	PASS
	3.8V	5209.92	-80000	PASS
	4.37V	5210	0	PASS

Test mode:	802.11ax(HE80)	Frequency(MHz):	5775
Temperature (°C)	Voltage(V_{DC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.8V	5775	0	PASS
35		5775	0	PASS
25		5774.92	-80000	PASS
15		5774.92	-80000	PASS
5		5774.92	-80000	PASS
0		5775	0	PASS
20	3.23V	5775	0	PASS
	3.8V	5775	0	PASS
	4.37V	5775	0	PASS

Test mode:	802.11ax(HE160)	Frequency(MHz):	5250	
Temperature (°C)	Voltage(V_{DC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.8V	5250	0	PASS
35		5250	0	PASS
25		5250	0	PASS
15		5250	0	PASS
5		5250	0	PASS
0		5250	0	PASS
20	3.23V	5250	0	PASS
	3.8V	5250	0	PASS
	4.37V	5250	0	PASS

Test mode:	802.11ax(HE160)	Frequency(MHz):	5570	
Temperature (°C)	Voltage(V_{DC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.8V	5570	0	PASS
35		5570	0	PASS
25		5570	0	PASS
15		5570	0	PASS
5		5570	0	PASS
0		5570	0	PASS
20	3.23V	5570	0	PASS
	3.8V	5570	0	PASS
	4.37V	5570	0	PASS

Appendix A: Test Result of Conducted Test

Antenna 3

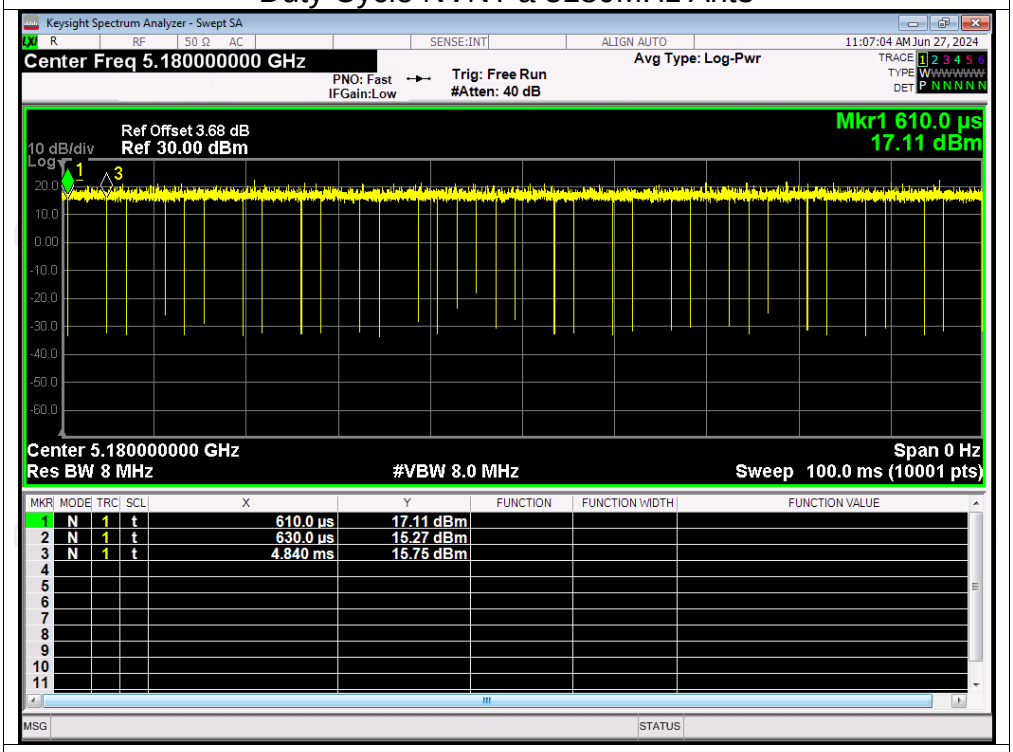
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5180	Ant3	99.68	0
NVNT	a	5200	Ant3	99.69	0
NVNT	a	5240	Ant3	99.69	0
NVNT	n20	5180	Ant3	98.51	0
NVNT	n20	5200	Ant3	98.49	0
NVNT	n20	5240	Ant3	98.48	0
NVNT	n40	5190	Ant3	98.04	0
NVNT	n40	5230	Ant3	98.37	0
NVNT	ac20	5180	Ant3	99.21	0
NVNT	ac20	5200	Ant3	99.21	0
NVNT	ac20	5240	Ant3	99.19	0
NVNT	ac40	5190	Ant3	99.12	0
NVNT	ac40	5230	Ant3	99.15	0
NVNT	ac80	5210	Ant3	98.50	0
NVNT	ax160	5250	Ant3	98.24	0
NVNT	ax20	5180	Ant3	99.02	0
NVNT	ax20	5200	Ant3	99.01	0
NVNT	ax20	5240	Ant3	98.99	0
NVNT	ax40	5190	Ant3	98.97	0
NVNT	ax40	5230	Ant3	98.95	0
NVNT	ax80	5210	Ant3	98.02	0
NVNT	a	5180	Ant3	99.69	0
NVNT	a	5200	Ant3	99.69	0
NVNT	a	5240	Ant3	99.69	0
NVNT	n20	5180	Ant3	98.49	0
NVNT	n20	5200	Ant3	98.49	0
NVNT	n20	5240	Ant3	98.51	0
NVNT	n40	5190	Ant3	98.22	0
NVNT	n40	5230	Ant3	98.28	0
NVNT	ac20	5180	Ant3	99.19	0
NVNT	ac20	5200	Ant3	99.18	0
NVNT	ac20	5240	Ant3	99.21	0
NVNT	ac40	5190	Ant3	99.04	0
NVNT	ac40	5230	Ant3	99.08	0
NVNT	ac80	5210	Ant3	98.66	0
NVNT	ax20	5180	Ant3	98.99	0
NVNT	ax20	5200	Ant3	99.01	0
NVNT	ax20	5240	Ant3	98.99	0
NVNT	ax40	5190	Ant3	98.89	0
NVNT	ax40	5230	Ant3	98.87	0
NVNT	ax80	5210	Ant3	98.46	0

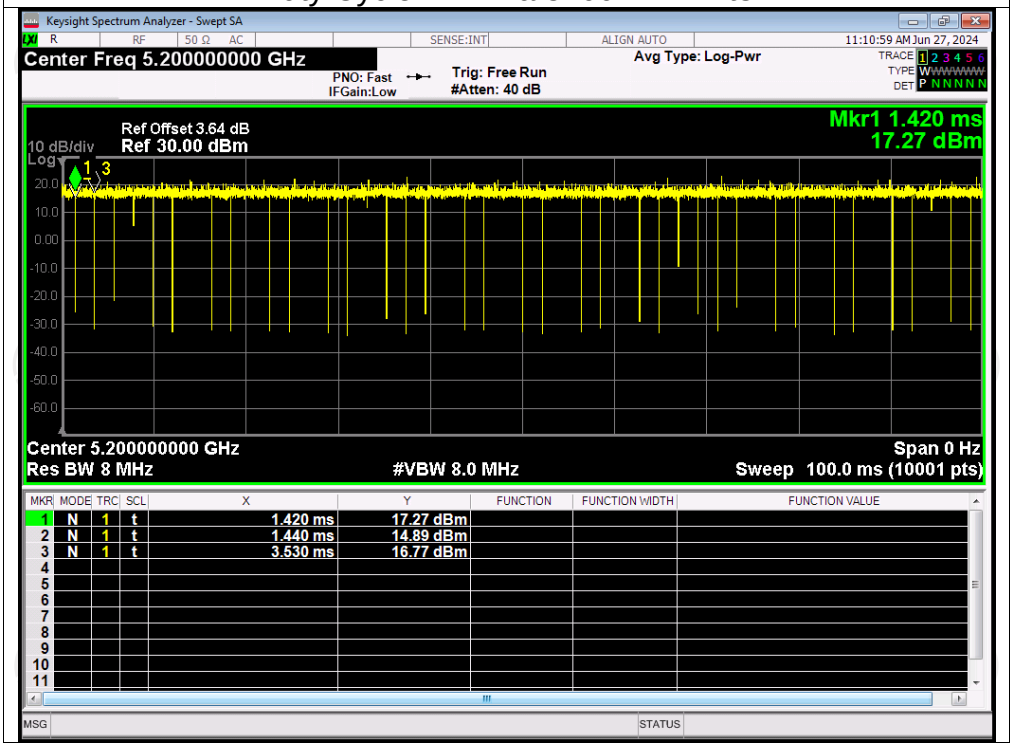
NVNT	a	5500	Ant3	99.69	0
NVNT	a	5600	Ant3	99.70	0
NVNT	a	5700	Ant3	99.69	0
NVNT	n20	5500	Ant3	98.46	0
NVNT	n20	5600	Ant3	98.47	0
NVNT	n20	5700	Ant3	98.46	0
NVNT	n40	5510	Ant3	98.43	0
NVNT	n40	5590	Ant3	98.45	0
NVNT	n40	5670	Ant3	98.49	0
NVNT	ac20	5500	Ant3	99.17	0
NVNT	ac20	5600	Ant3	99.20	0
NVNT	ac20	5700	Ant3	99.16	0
NVNT	ac40	5510	Ant3	99.22	0
NVNT	ac40	5590	Ant3	99.15	0
NVNT	ac40	5670	Ant3	99.16	0
NVNT	ac80	5530	Ant3	98.66	0
NVNT	ac80	5610	Ant3	98.67	0
NVNT	ax160	5570	Ant3	98.21	0
NVNT	ax20	5500	Ant3	98.99	0
NVNT	ax20	5600	Ant3	98.99	0
NVNT	ax20	5700	Ant3	99.01	0
NVNT	ax40	5510	Ant3	98.99	0
NVNT	ax40	5590	Ant3	99.02	0
NVNT	ax40	5670	Ant3	99.02	0
NVNT	ax80	5530	Ant3	98.10	0
NVNT	ax80	5610	Ant3	98.49	0
NVNT	a	5745	Ant3	99.67	0
NVNT	a	5785	Ant3	99.67	0
NVNT	a	5825	Ant3	99.70	0
NVNT	n20	5745	Ant3	98.48	0
NVNT	n20	5785	Ant3	98.50	0
NVNT	n20	5825	Ant3	98.48	0
NVNT	n40	5755	Ant3	98.46	0
NVNT	n40	5795	Ant3	98.46	0
NVNT	ac20	5745	Ant3	99.19	0
NVNT	ac20	5785	Ant3	99.19	0
NVNT	ac20	5825	Ant3	99.18	0
NVNT	ac40	5755	Ant3	99.16	0
NVNT	ac40	5795	Ant3	99.16	0
NVNT	ac80	5775	Ant3	98.65	0
NVNT	ax20	5745	Ant3	99.00	0
NVNT	ax20	5785	Ant3	99.00	0
NVNT	ax20	5825	Ant3	99.01	0
NVNT	ax40	5755	Ant3	99.12	0
NVNT	ax40	5795	Ant3	99.10	0
NVNT	ax80	5775	Ant3	98.48	0

Test Graphs

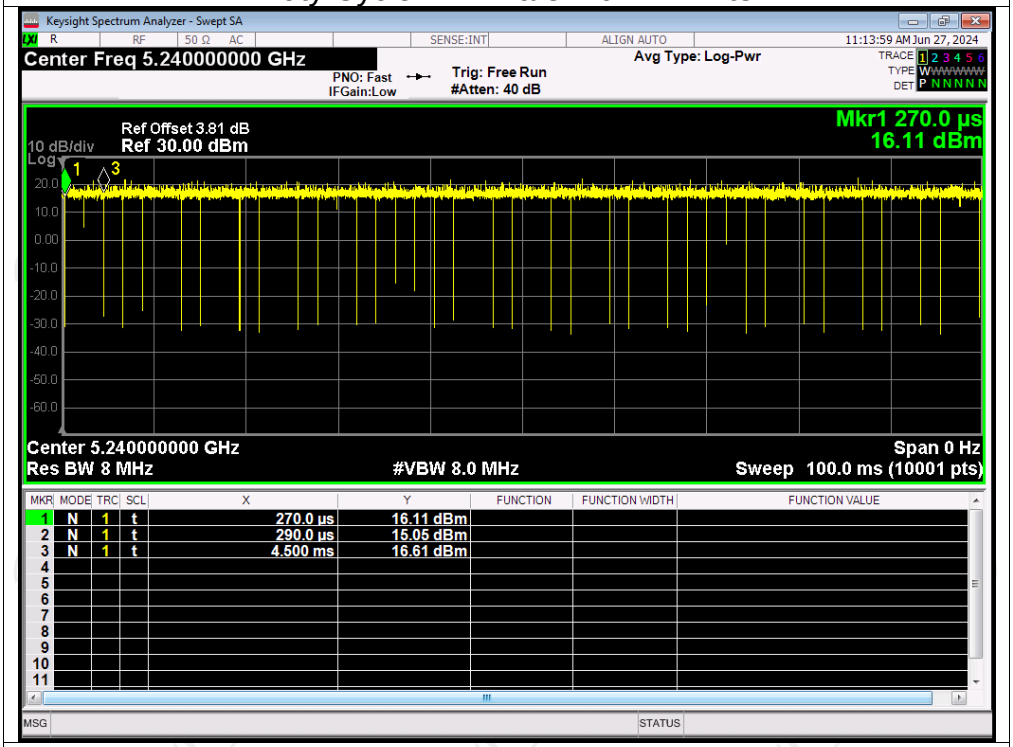
Duty Cycle NVNT a 5180MHz Ant3



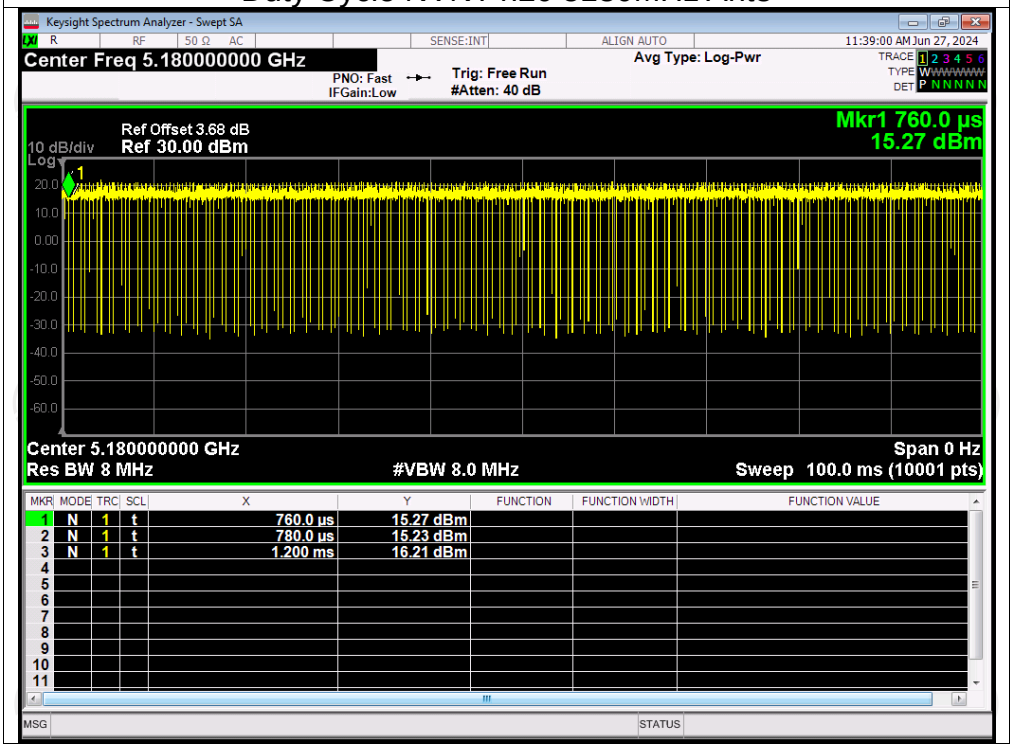
Duty Cycle NVNT a 5200MHz Ant3



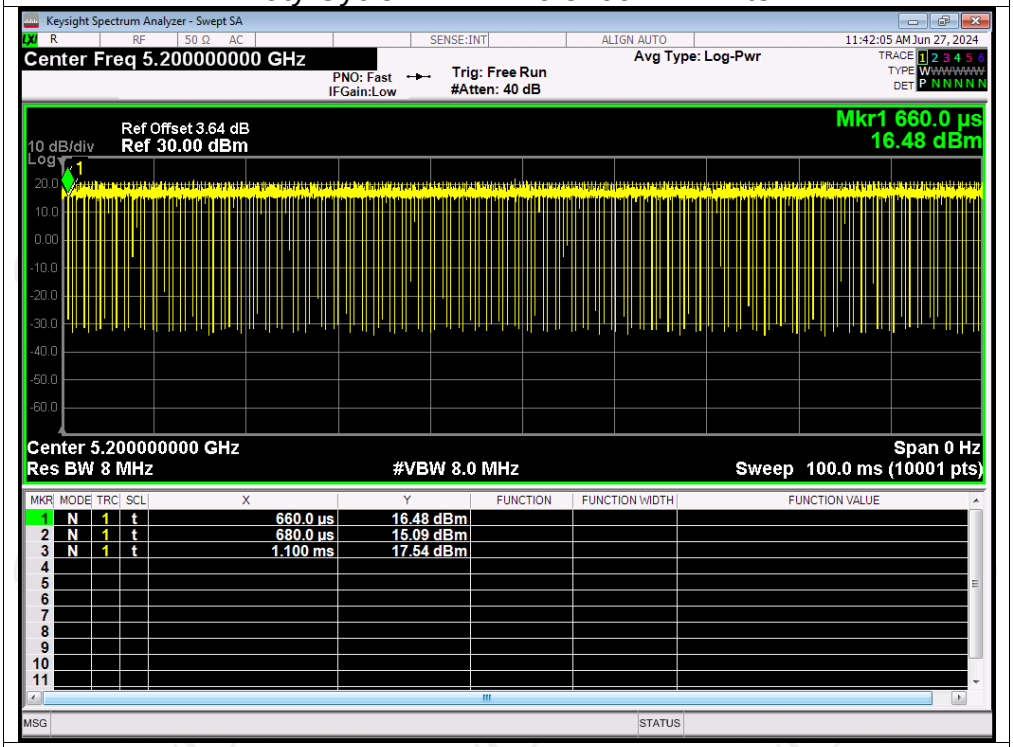
Duty Cycle NVNT a 5240MHz Ant3



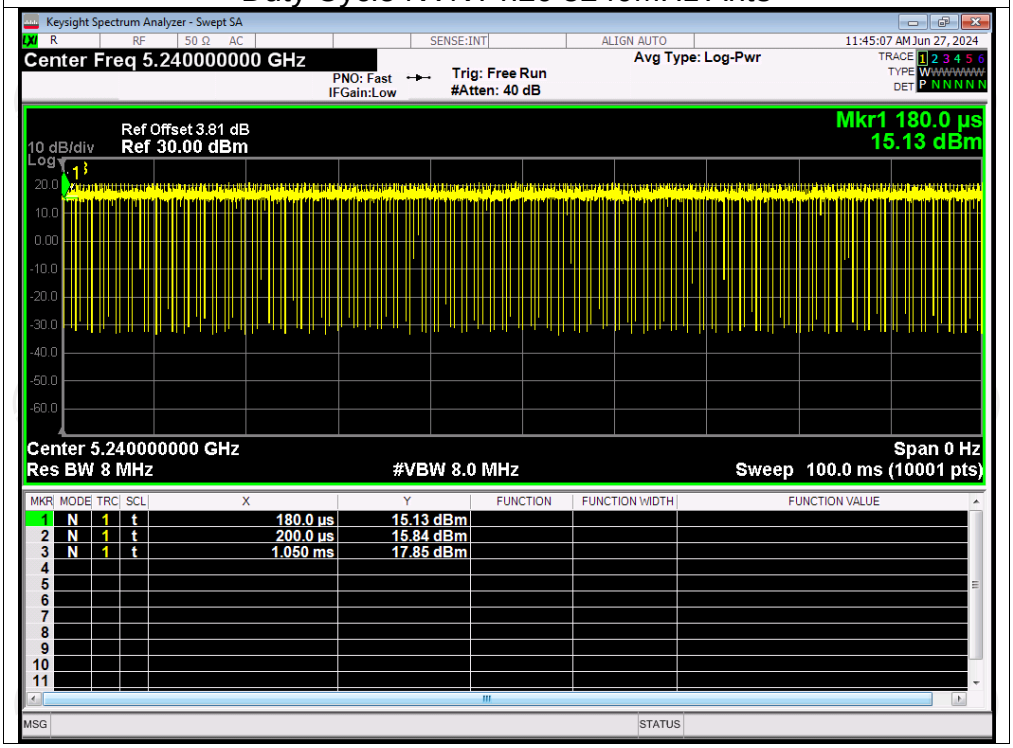
Duty Cycle NVNT n20 5180MHz Ant3



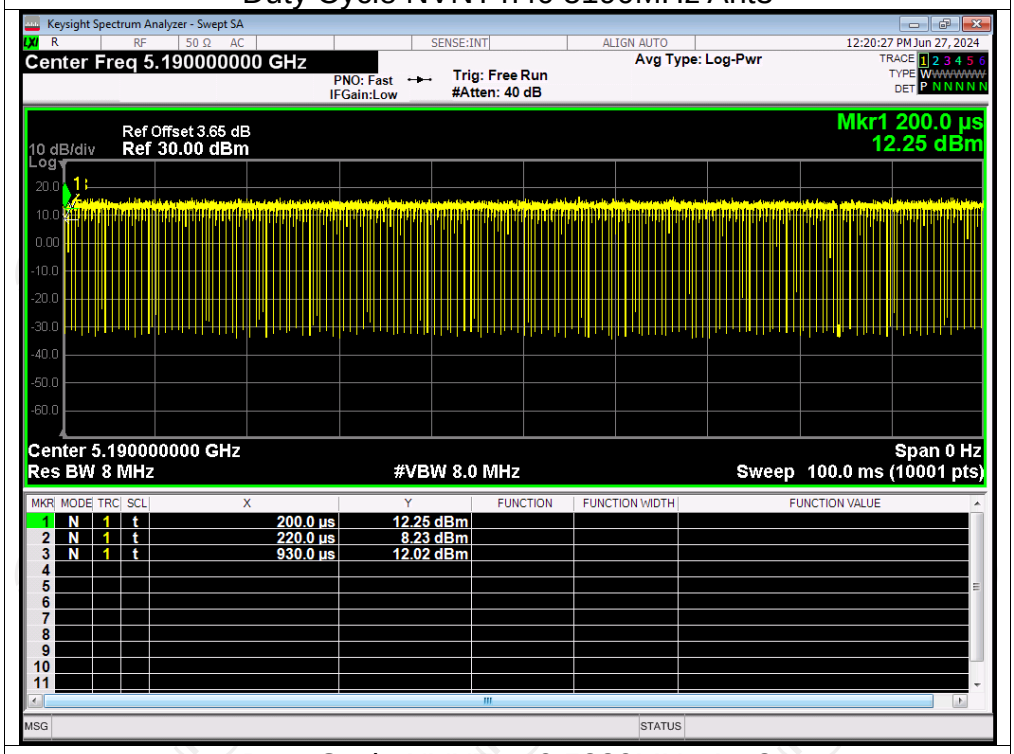
Duty Cycle NVNT n20 5200MHz Ant3



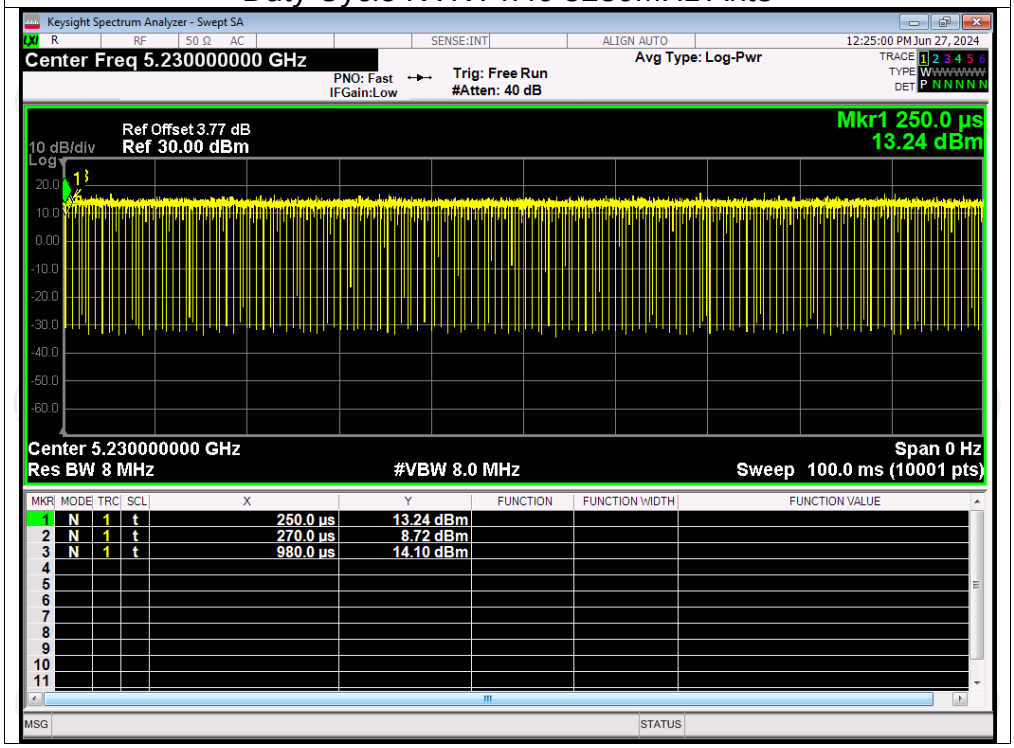
Duty Cycle NVNT n20 5240MHz Ant3



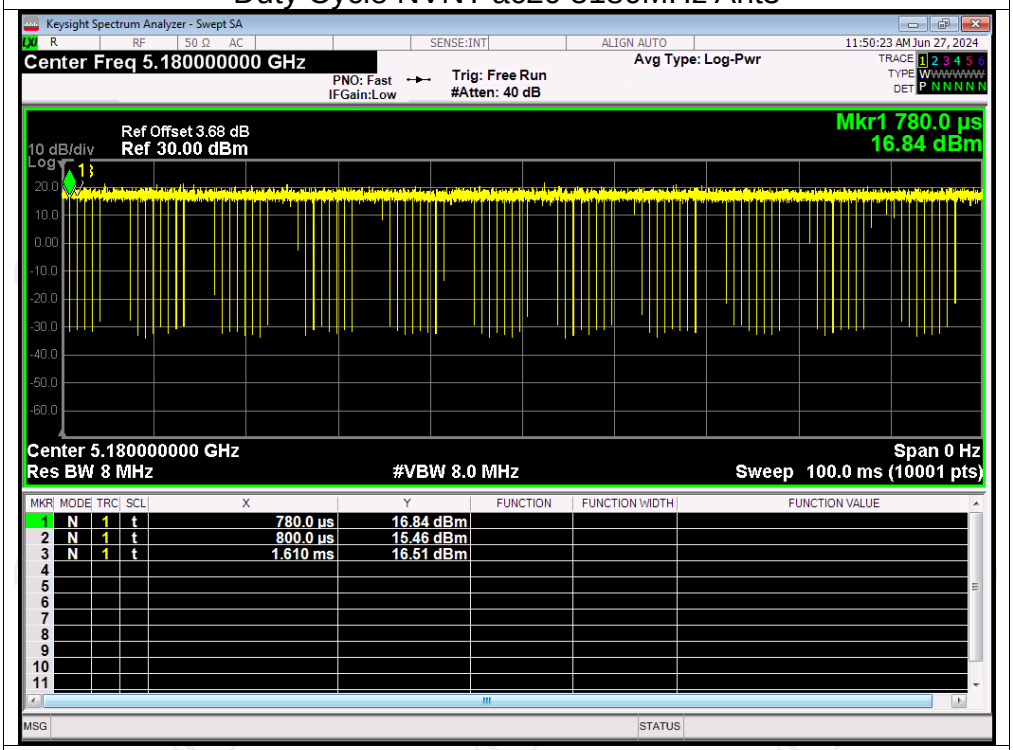
Duty Cycle NVNT n40 5190MHz Ant3



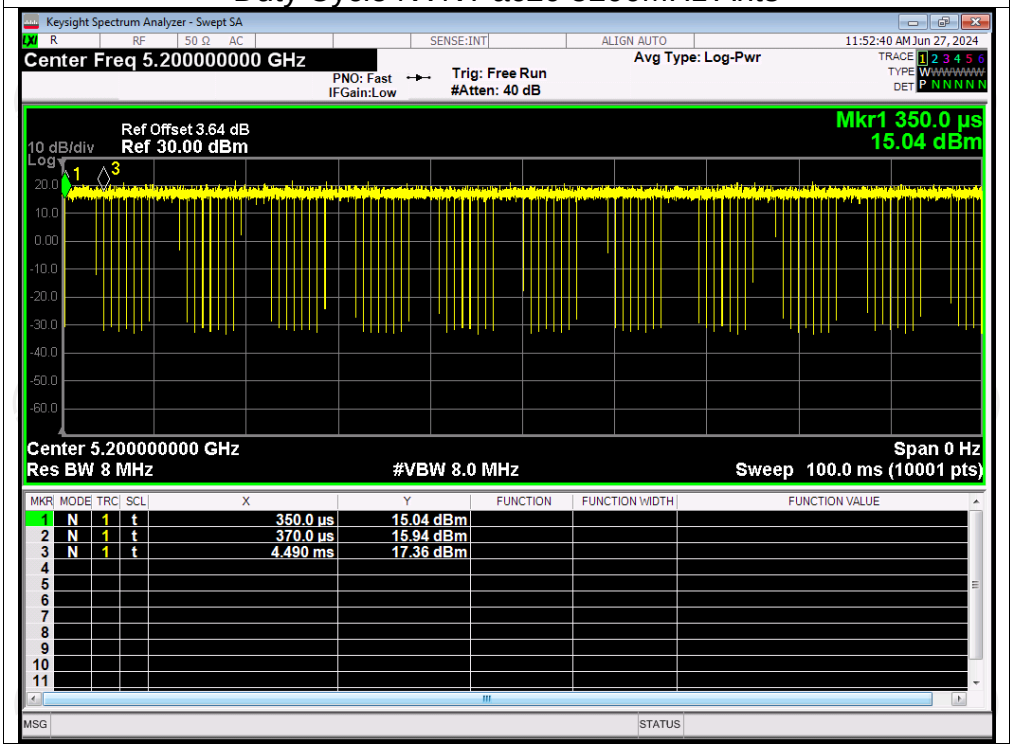
Duty Cycle NVNT n40 5230MHz Ant3



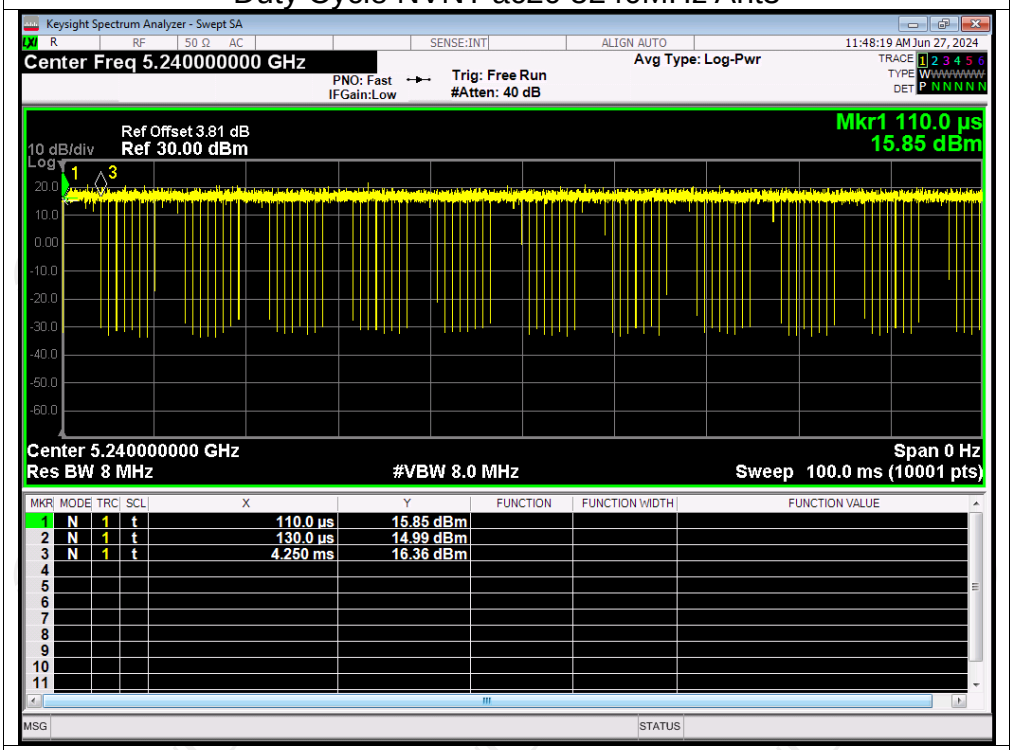
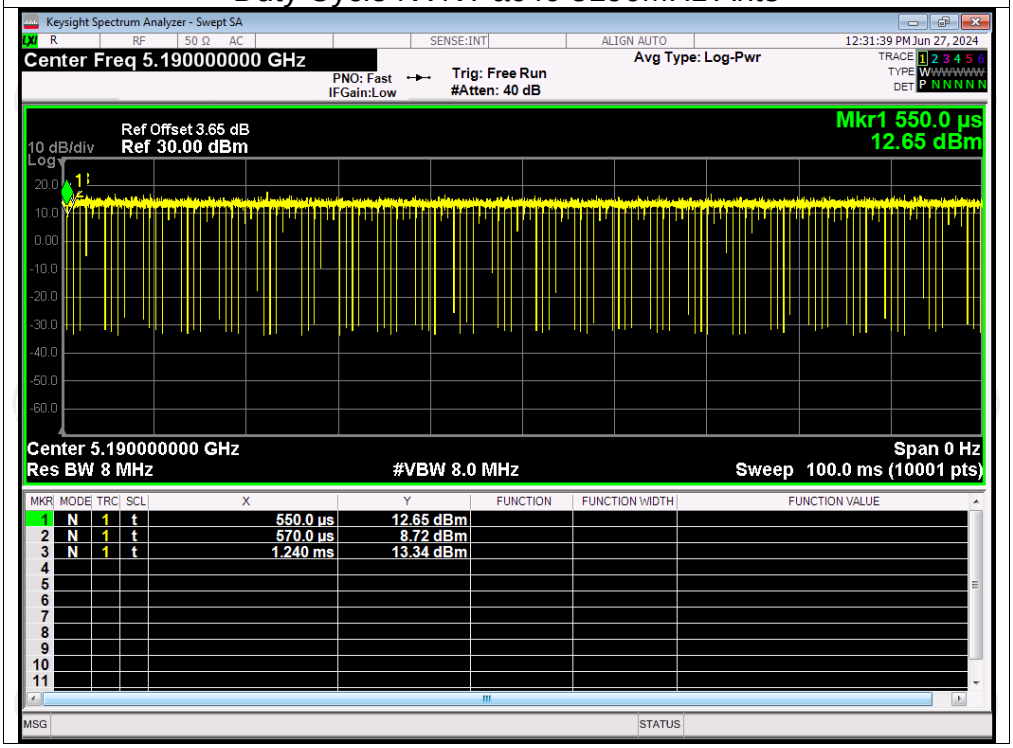
Duty Cycle NVNT ac20 5180MHz Ant3



Duty Cycle NVNT ac20 5200MHz Ant3



Duty Cycle NVNT ac20 5240MHz Ant3



Duty Cycle NVNT ac40 5190MHz Ant3