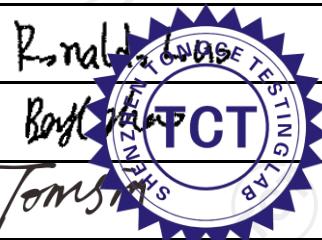


TEST REPORT

FCC ID	2AUARTKTOOL195
Test Report No.	TCT241209E916
Date of issue	Dec. 18, 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.....	THINKCAR TECH CO., LTD.
Address.....	2606, building 4, phase II, TiananYungu, Gangtou community, Bantian, Longgang District, Shenzhen, China
Manufacturer's name ...	THINKCAR TECH CO., LTD.
Address.....	2606, building 4, phase II, TiananYungu, Gangtou community, Bantian, Longgang District, Shenzhen, 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.....	Intelligent Automotive Diagnostic Tool
Trade Mark	EAATA
Model/Type reference.....	EAATA90
Rating(s).....	Adapter Information: Model: PSYB0502500 Input: AC 100-240V, 50/60Hz, 0.6A Max Output: DC 5.0V, 2.5A, 12.5W Rechargeable Li-ion Battery DC 7.6V
Date of receipt of test item	Dec. 09, 2024
Date (s) of performance of test.....	Dec. 09, 2024 - Dec. 18, 2024
Tested by (+signature) ...	Ronaldo LUO
Check by (+signature)....	Beryl ZHAO
Approved by (+signature):	Tomsin


General disclaimer:

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Appendix A: Test Result of Conducted Test**Appendix B: Photographs of Test Setup****Appendix C: Photographs of EUT**

1. General Product Information

1.1. EUT description

Product Name	Intelligent Automotive Diagnostic Tool
Model/Type reference	EAATA90
Sample Number	TCT241209E906-0101
Operation Frequency	Band 1: 5180 MHz ~ 5240 MHz Band 3: 5745 MHz ~ 5825 MHz
Channel Bandwidth	802.11a: 20MHz 802.11n: 20MHz, 40MHz 802.11ac: 20MHz, 40MHz, 80MHz
Modulation Technology	Orthogonal Frequency Division Multiplexing(OFDM)
Modulation Type	256QAM, 64QAM, 16QAM, BPSK, QPSK
Antenna Type	Internal Antenna
Antenna Gain	Band 1: 5.02dBi Band 3: 5.39dBi
Rating(s)	Adapter Information: Model: PSYB0502500 Input: AC 100-240V, 50/60Hz, 0.6A Max Output: DC 5.0V, 2.5A, 12.5W Rechargeable Li-ion Battery DC 7.6V

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.

1.3. Test Frequency

Band 1

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

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:

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).
6. This report is issued as a supplemental report to original FCC ID: 2AUARTKTOOL195, the difference is changing product model, product name, trade mark, appearance color and removing the IC chip for MIPI to EDP signal in this report and, conducted emission, radiated emission had been re-tested and only its data was presented in this report.

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:	Engineering Mode
Power Level:	18
Test Mode:	
Engineer mode:	Keep the EUT in continuous transmitting by select channel and modulations with max. duty cycle.
<p>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.</p>	

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	6 Mbps
802.11n(HT20)	6.5 Mbps
802.11n(HT40)	13.5 Mbps
802.11ac(VHT20)	6.5 Mbps
802.11ac(VHT40)	13.5 Mbps
802.11ac(VHT80)	29.3 Mbps

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 $y \pm U$, 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

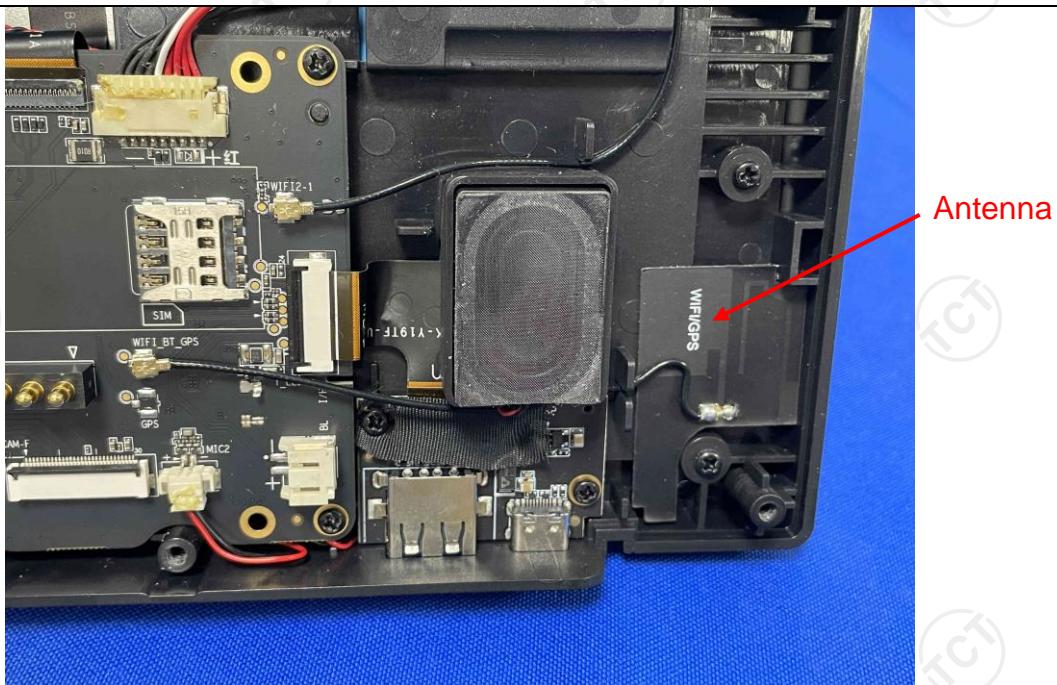
Standard requirement:	FCC Part15 C Section 15.203 /247(c)
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15.203 requirement:

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 antenna is internal antenna which permanently attached, and the maximum gain of the antenna is 5.39dBi at UNII-B3.

**Antenna**

5.2. Conducted Emission

5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.10:2020														
Frequency Range:	150 kHz to 30 MHz														
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto														
Limits:	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <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> </tbody> </table>	Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													
Test Setup:	<p>Reference Plane</p> <p>Test table/Insulation plane</p> <p>Remark E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>														
Test Mode:	Charging + Transmitting Mode														
Test Procedure:	<ol style="list-style-type: none"> 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: 2020 on conducted measurement. 														
Test Result:	PASS														

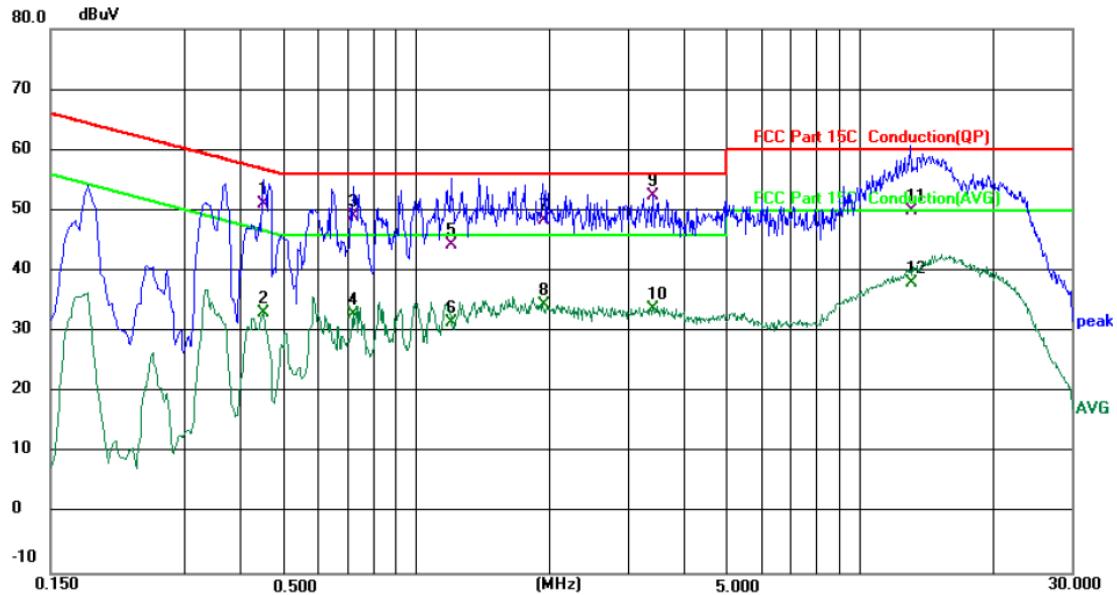
5.2.2. Test Instruments

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: 22.8 (°C)	Humidity: 49 %
Limit: FCC Part 15C Conduction(QP)				Power: AC 120 V/60 Hz			
No.	Mk.	Reading Level	Correct Factor	Measurement	Limit	Over	
	MHz	dB μ V	dB	dB μ V	dB	Detector	Comment
1	0.4540	41.04	10.11	51.15	56.80	-5.65	QP
2	0.4540	22.94	10.11	33.05	46.80	-13.75	AVG
3	0.7219	38.67	10.41	49.08	56.00	-6.92	QP
4	0.7219	22.56	10.41	32.97	46.00	-13.03	AVG
5	1.1980	34.55	9.76	44.31	56.00	-11.69	QP
6	1.1980	21.85	9.76	31.61	46.00	-14.39	AVG
7	1.9339	38.62	9.83	48.45	56.00	-7.55	QP
8	1.9339	24.72	9.83	34.55	46.00	-11.45	AVG
9 *	3.4260	42.52	10.01	52.53	56.00	-3.47	QP
10	3.4260	23.72	10.01	33.73	46.00	-12.27	AVG
11	13.0140	39.57	10.29	49.86	60.00	-10.14	QP
12	13.0140	27.83	10.29	38.12	50.00	-11.88	AVG

Note:

Freq. = Emission frequency in MHz

Reading level (dB μ V) = Receiver reading

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

Measurement (dB μ V) = Reading level (dB μ V) + Corr. Factor (dB)

Limit (dB μ V) = Limit stated in standard

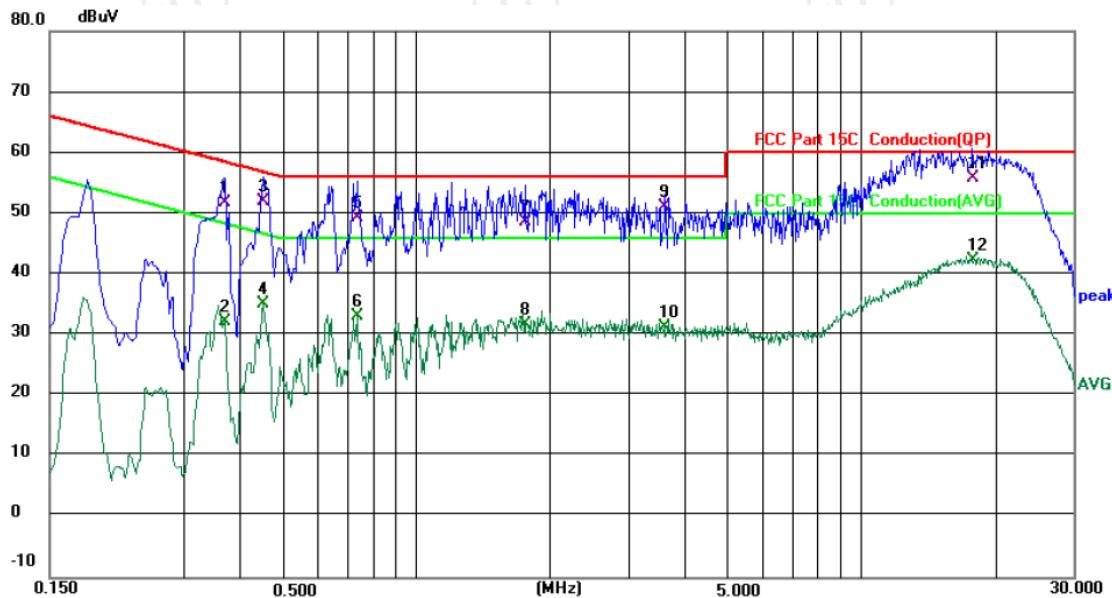
Margin (dB) = Measurement (dB μ V) – Limits (dB μ V)

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: <i>N</i>		Temperature: 22.8 (°C)		Humidity: 49 %	
Limit: FCC Part 15C Conduction(QP)				Power: AC 120 V/60 Hz					
No.	Mk.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV	dB	Detector	Comment	
1	0.3700	41.84	10.00	51.84	58.50	-6.66	QP		
2	0.3700	22.14	10.00	32.14	48.50	-16.36	AVG		
3	0.4540	41.89	10.09	51.98	56.80	-4.82	QP		
4	0.4540	25.04	10.09	35.13	46.80	-11.67	AVG		
5	0.7378	38.95	10.40	49.35	56.00	-6.65	QP		
6	0.7378	22.70	10.40	33.10	46.00	-12.90	AVG		
7	1.7580	38.91	9.77	48.68	56.00	-7.32	QP		
8	1.7580	21.99	9.77	31.76	46.00	-14.24	AVG		
9	3.6379	41.18	9.97	51.15	56.00	-4.85	QP		
10	3.6379	21.42	9.97	31.39	46.00	-14.61	AVG		
11 *	17.7658	45.53	10.24	55.77	60.00	-4.23	QP		
12	17.7658	32.13	10.24	42.37	50.00	-7.63	AVG		

Note:

Freq. = Emission frequency in MHz

Reading level (dB μ V) = Receiver reading

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

Measurement (dB μ V) = Reading level (dB μ V) + Corr. Factor (dB)

Limit (dB μ V) = Limit stated in standard

Margin (dB) = Measurement (dB μ V) – Limits (dB μ V)

Q.P. = Quasi-Peak

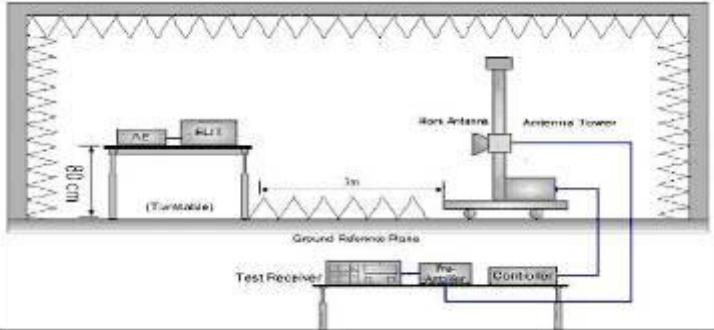
AVG = average

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

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) and the worst case Mode (Middle channel and 802.11n(HT20) in U-NII Band1) was submitted only.

5.3. Band edge

5.3.1. Test Specification

Test Requirement:	FCC CFR47 Part 15E Section 15.407																													
Test Method:	ANSI C63.10 2020																													
Limit:	In un-restricted band: For Band 1&2A&2C: -27dBm/MHz For Band 3: <table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>Limit (dBm/MHz)</th> <th>Frequency (MHz)</th> <th>Limit (dBm/MHz)</th> </tr> </thead> <tbody> <tr> <td>< 5650</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> </tbody> </table> $E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2 \text{ @ 3m}$ In restricted band: <table border="1"> <thead> <tr> <th>Detector</th> <th>Limit@3m</th> </tr> </thead> <tbody> <tr> <td>Peak</td> <td>74dBμV/m</td> </tr> <tr> <td>AVG</td> <td>54dBμV/m</td> </tr> </tbody> </table>				Frequency (MHz)	Limit (dBm/MHz)	Frequency (MHz)	Limit (dBm/MHz)	< 5650	-27	5850~5855	27~15.6	5650~5700	-27~10	5855~5875	15.6~10	5700~5720	10~15.6	5875~5925	10~27	5720~5725	15.6~27	> 5925	-27	Detector	Limit@3m	Peak	74dB μ V/m	AVG	54dB μ V/m
Frequency (MHz)	Limit (dBm/MHz)	Frequency (MHz)	Limit (dBm/MHz)																											
< 5650	-27	5850~5855	27~15.6																											
5650~5700	-27~10	5855~5875	15.6~10																											
5700~5720	10~15.6	5875~5925	10~27																											
5720~5725	15.6~27	> 5925	-27																											
Detector	Limit@3m																													
Peak	74dB μ V/m																													
AVG	54dB μ V/m																													
Test Setup:																														
Test Mode:	Transmitting mode with modulation																													
Test Procedure:	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																													

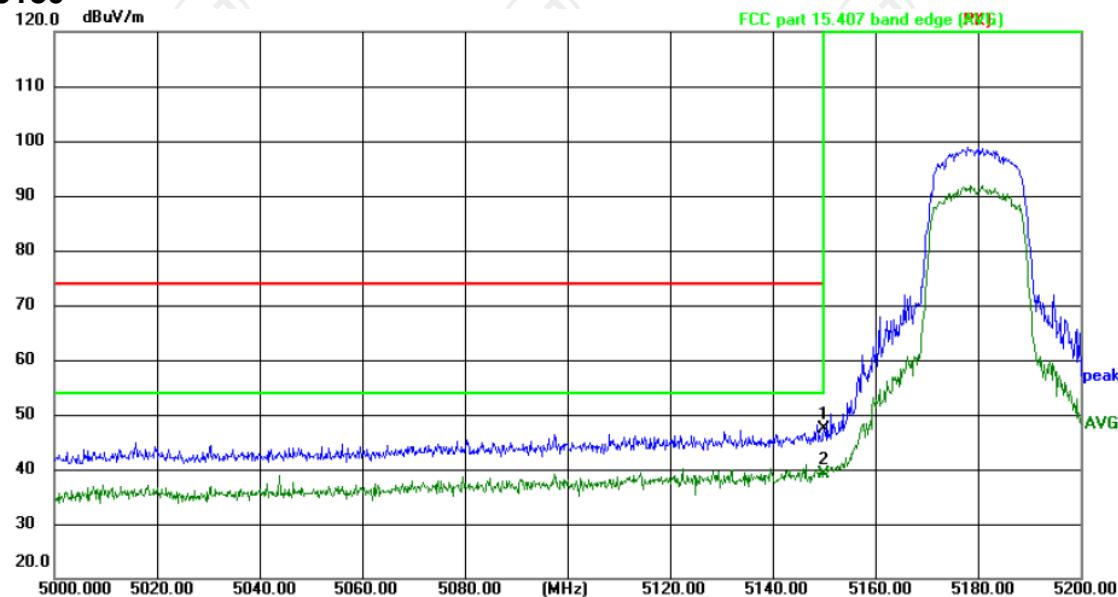
	<p>Mode.</p> <p>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average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

5.3.2. 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_EMCA	FA-03A2 RE+	1.1.4.2	/
Spectrum Analyzer	Agilent	N9020B	MY50030427	Jun. 26, 2025

5.3.3. Test Data

AC20-5180



Site: 3m Anechoic Chamber

Polarization: **Horizontal**

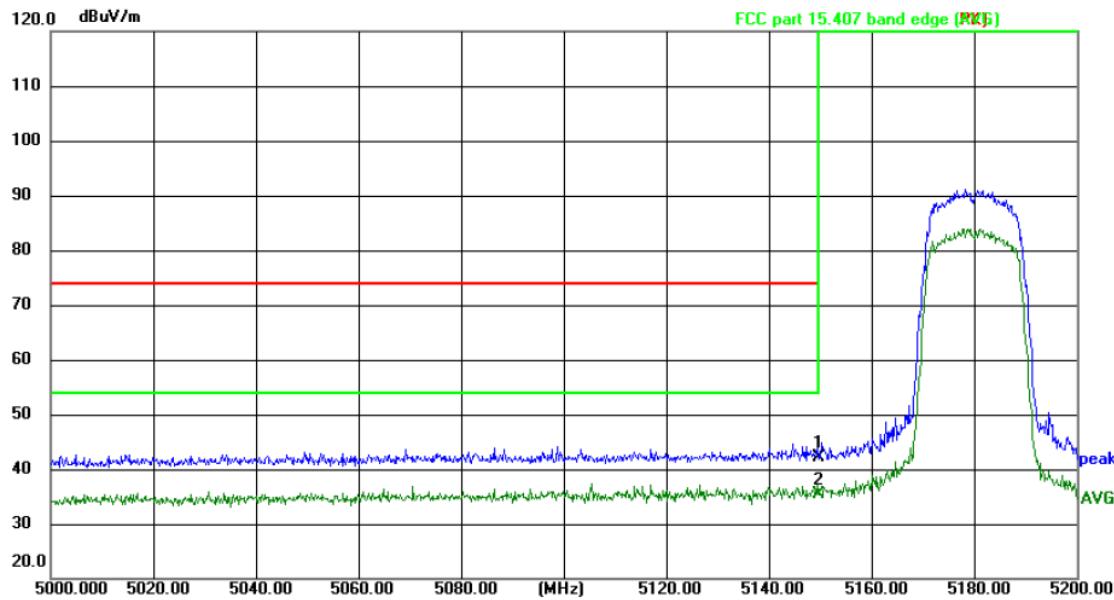
Temperature: 21.2(°C)

Humidity: 36 %

Limit: FCC part 15.407 band edge (PK)

Power: DC 7.6V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5150.000	55.96	-8.59	47.37	74.00	-26.63	peak	P	
2 *	5150.000	47.63	-8.59	39.04	54.00	-14.96	AVG	P	



Site: 3m Anechoic Chamber

Polarization: **Vertical**

Temperature: 21.2(°C)

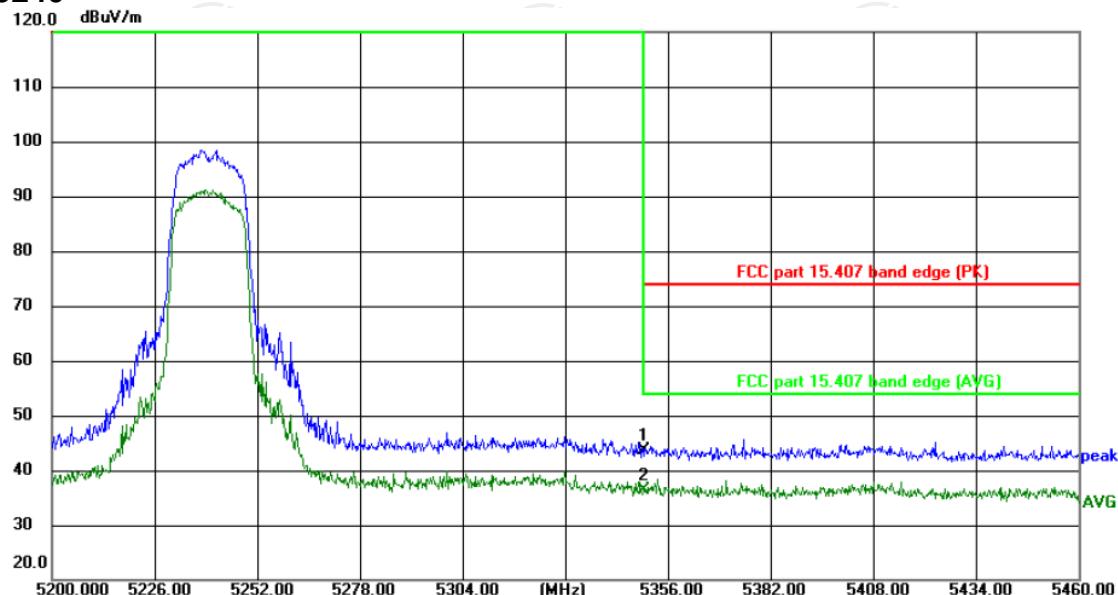
Humidity: 36 %

Limit: FCC part 15.407 band edge (PK)

Power: DC 7.6V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5150.000	50.63	-8.59	42.04	74.00	-31.96	peak	P	
2 *	5150.000	43.95	-8.59	35.36	54.00	-18.64	AVG	P	

AC20-5240



Site: 3m Anechoic Chamber

 Polarization: **Horizontal**

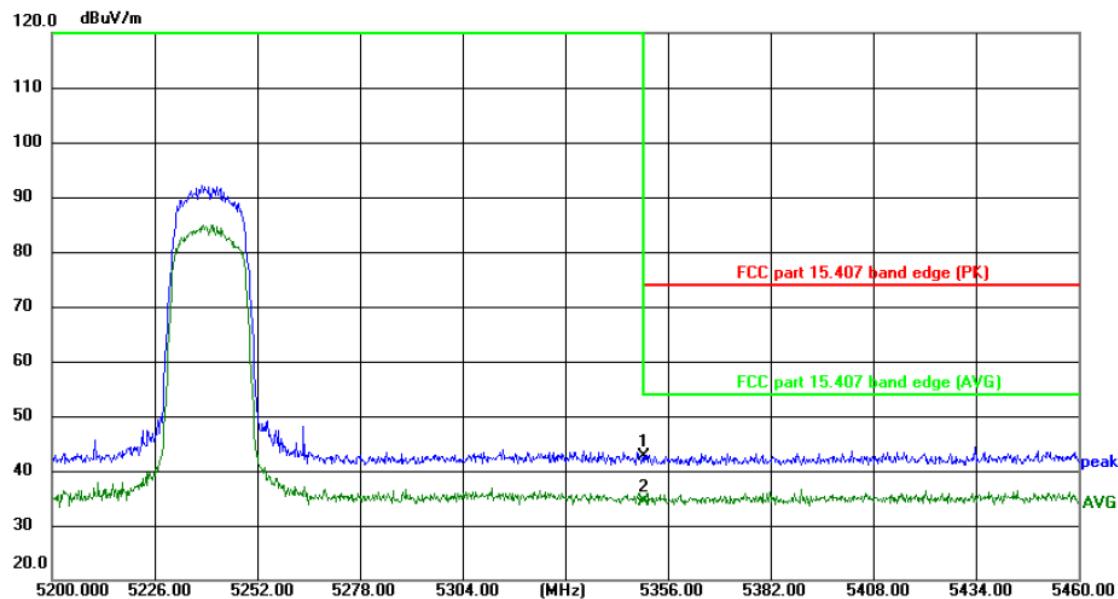
Temperature: 21.2(°C)

Humidity: 36 %

Limit: FCC part 15.407 band edge (PK)

Power: DC 7.6V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5350.000	51.70	-7.95	43.75	74.00	-30.25	peak	P	
2 *	5350.000	44.42	-7.95	36.47	54.00	-17.53	AVG	P	



Site: 3m Anechoic Chamber

 Polarization: **Vertical**

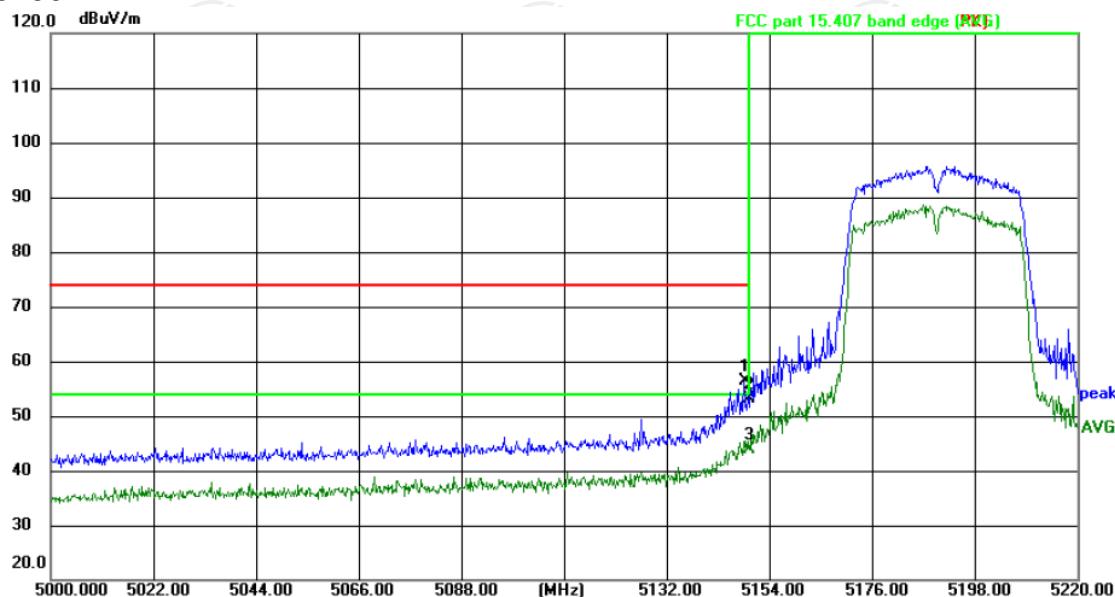
Temperature: 21.2(°C)

Humidity: 36 %

Limit: FCC part 15.407 band edge (PK)

Power: DC 7.6V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5350.000	50.55	-7.95	42.60	74.00	-31.40	peak	P	
2 *	5350.000	42.41	-7.95	34.46	54.00	-19.54	AVG	P	

AC40-5190


Site: 3m Anechoic Chamber

 Polarization: **Horizontal**

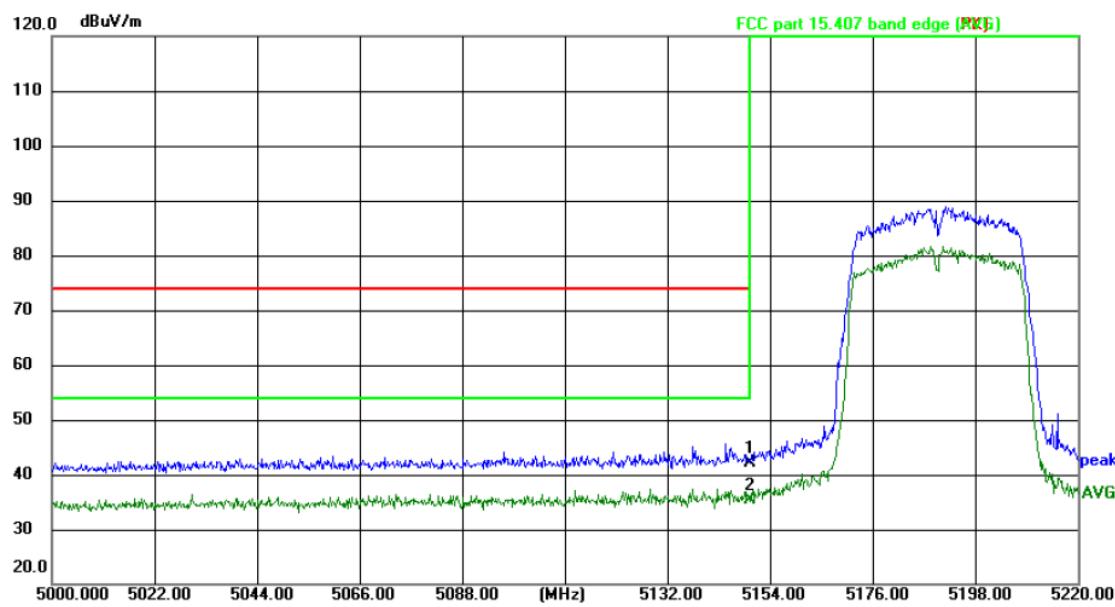
Temperature: 21.2(°C)

Humidity: 36 %

Limit: FCC part 15.407 band edge (PK)

Power: DC 7.6V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5148.583	64.90	-8.60	56.30	74.00	-17.70	peak	P	
2	5150.000	61.67	-8.59	53.08	74.00	-20.92	peak	P	
3 *	5150.000	52.51	-8.59	43.92	54.00	-10.08	AVG	P	



Site: 3m Anechoic Chamber

 Polarization: **Vertical**

Temperature: 21.2(°C)

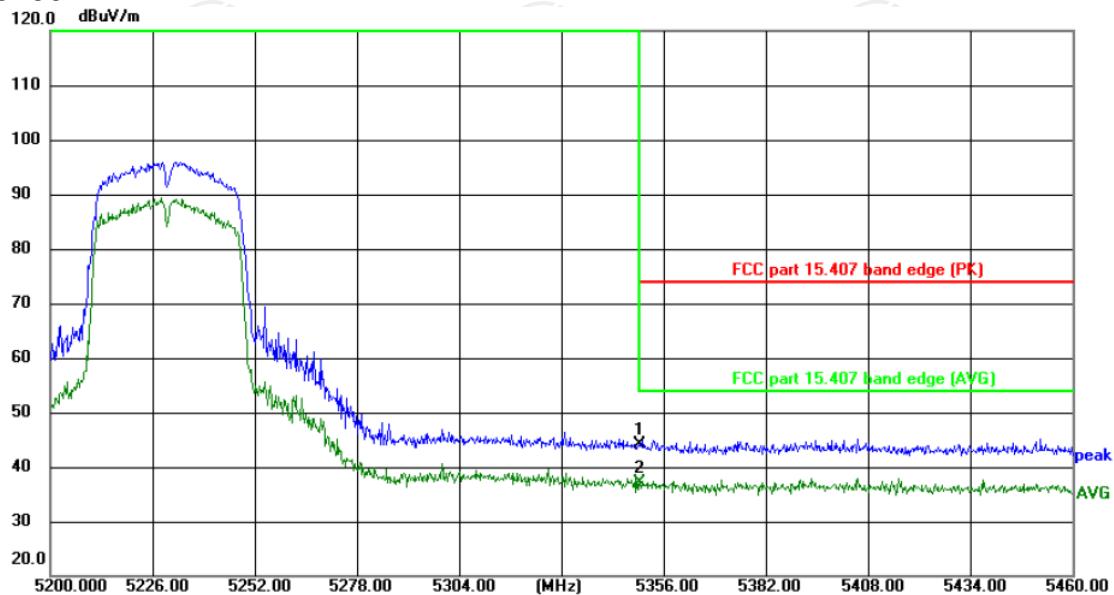
Humidity: 36 %

Limit: FCC part 15.407 band edge (PK)

Power: DC 7.6V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5150.000	50.77	-8.59	42.18	74.00	-31.82	peak	P	
2 *	5150.000	44.00	-8.59	35.41	54.00	-18.59	AVG	P	

AC40-5230



Site: 3m Anechoic Chamber

 Polarization: **Horizontal**

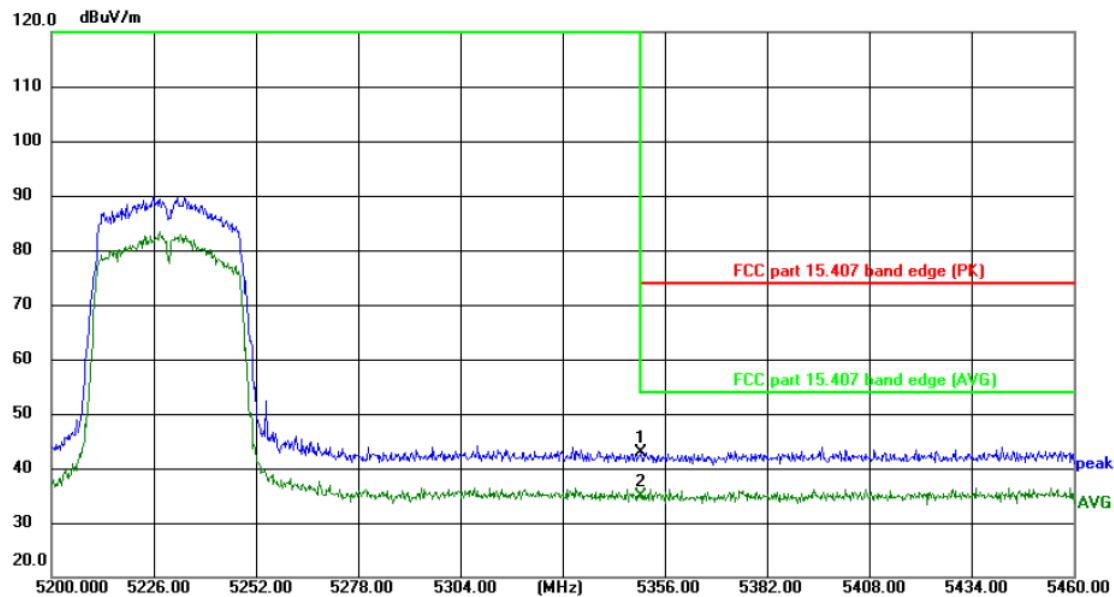
Temperature: 21.2(°C)

Humidity: 36 %

Limit: FCC part 15.407 band edge (PK)

Power: DC 7.6V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5350.000	52.09	-7.95	44.14	74.00	-29.86	peak	P	
2 *	5350.000	45.01	-7.95	37.06	54.00	-16.94	AVG	P	



Site: 3m Anechoic Chamber

 Polarization: **Vertical**

Temperature: 21.2(°C)

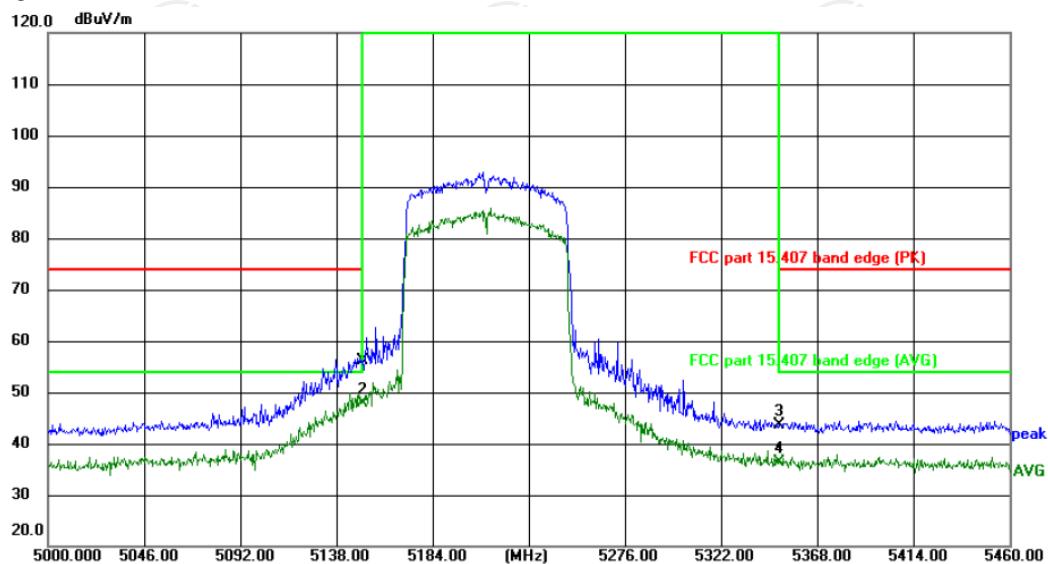
Humidity: 36 %

Limit: FCC part 15.407 band edge (PK)

Power: DC 7.6V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5350.000	50.77	-7.95	42.82	74.00	-31.18	peak	P	
2 *	5350.000	42.81	-7.95	34.86	54.00	-19.14	AVG	P	

AC80-5210

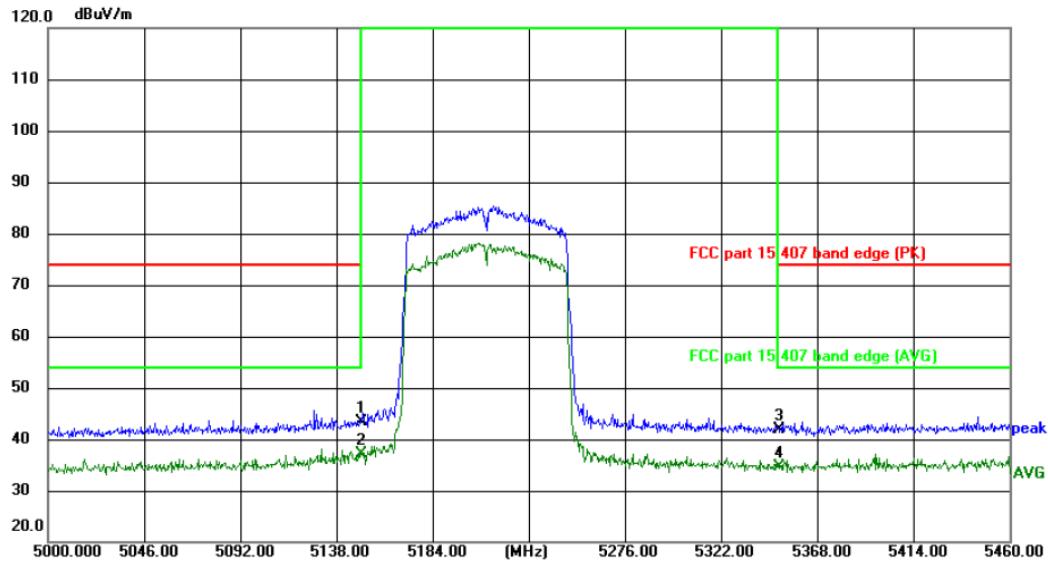


Site: 3m Anechoic Chamber Polarization: **Horizontal** Temperature: 21.2(°C) Humidity: 36 %

Limit: FCC part 15.407 band edge (PK)

Power:DC 7.6V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5150.000	64.70	-8.59	56.11	74.00	-17.89	peak	P	
2 *	5150.000	56.58	-8.59	47.99	54.00	-6.01	AVG	P	
3	5350.000	51.55	-7.95	43.60	74.00	-30.40	peak	P	
4	5350.000	44.40	-7.95	36.45	54.00	-17.55	AVG	P	



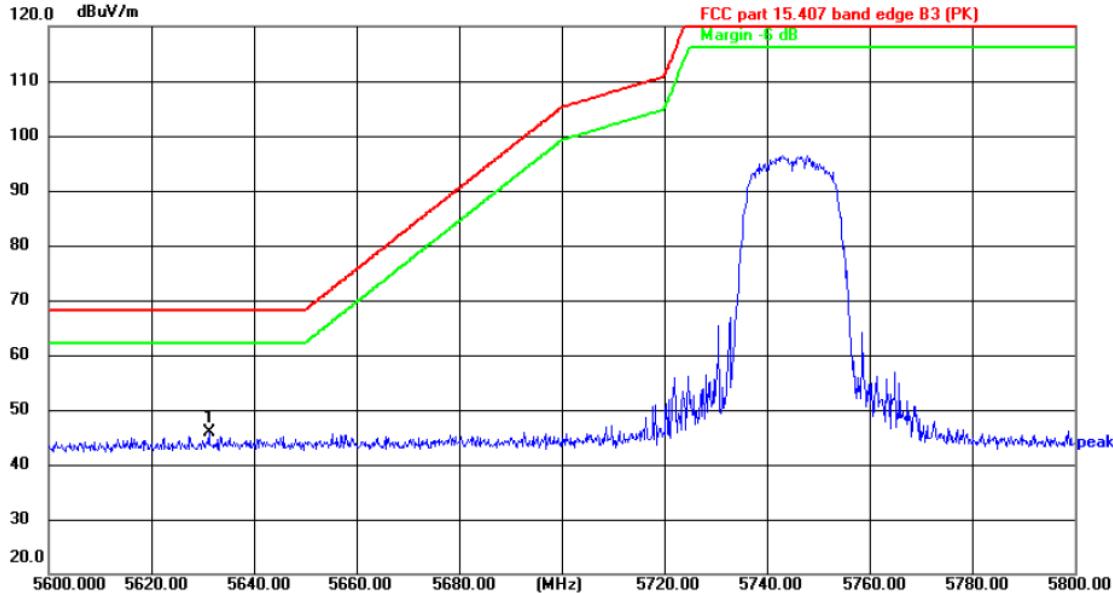
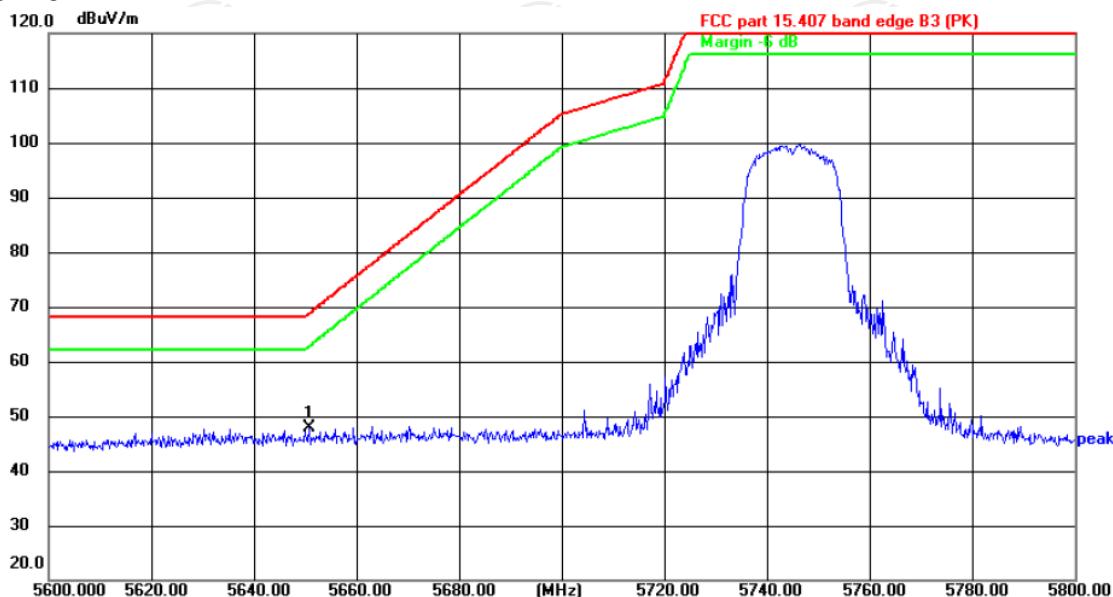
Site: 3m Anechoic Chamber Polarization: **Vertical** Temperature: 21.2(°C) Humidity: 36 %

Limit: FCC part 15.407 band edge (PK)

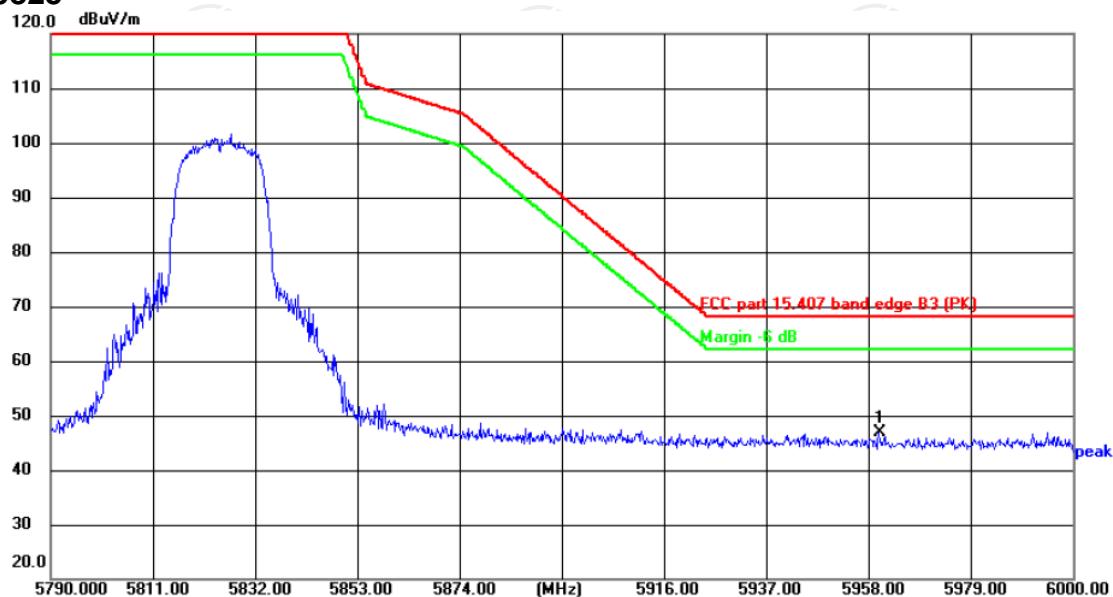
Power:DC 7.6V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5150.000	52.02	-8.59	43.43	74.00	-30.57	peak	P	
2 *	5150.000	45.60	-8.59	37.01	54.00	-16.99	AVG	P	
3	5350.000	49.95	-7.95	42.00	74.00	-32.00	peak	P	
4	5350.000	42.58	-7.95	34.63	54.00	-19.37	AVG	P	

AC20-5745



AC20-5825



Site: 3m Anechoic Chamber

 Polarization: **Horizontal**

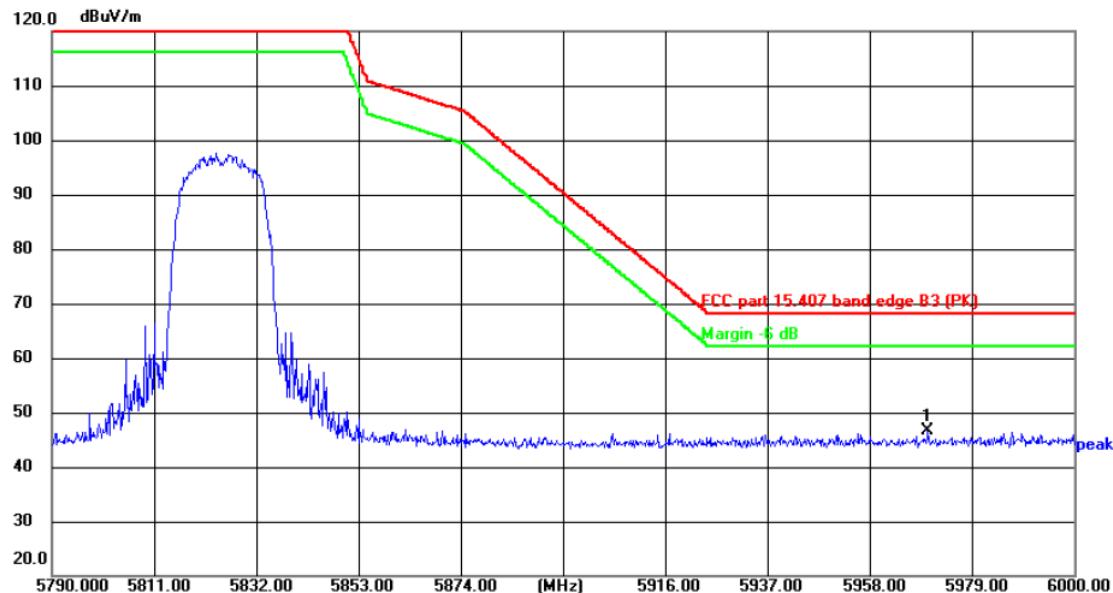
Temperature: 21.2(°C)

Humidity: 36 %

Limit: FCC part 15.407 band edge B3 (PK)

Power:DC 7.6V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5960.153	52.34	-5.50	46.84	68.20	-21.36	peak	P	



Site: 3m Anechoic Chamber

 Polarization: **Vertical**

Temperature: 21.2(°C)

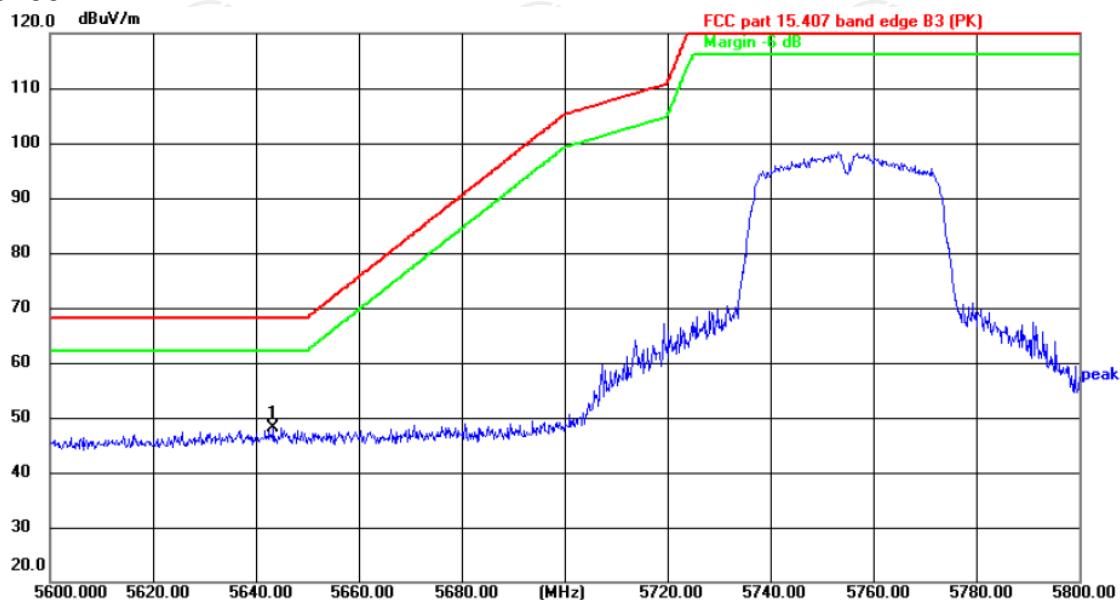
Humidity: 36 %

Limit: FCC part 15.407 band edge B3 (PK)

Power:DC 7.6V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5970.127	51.97	-5.45	46.52	68.20	-21.68	peak	P	

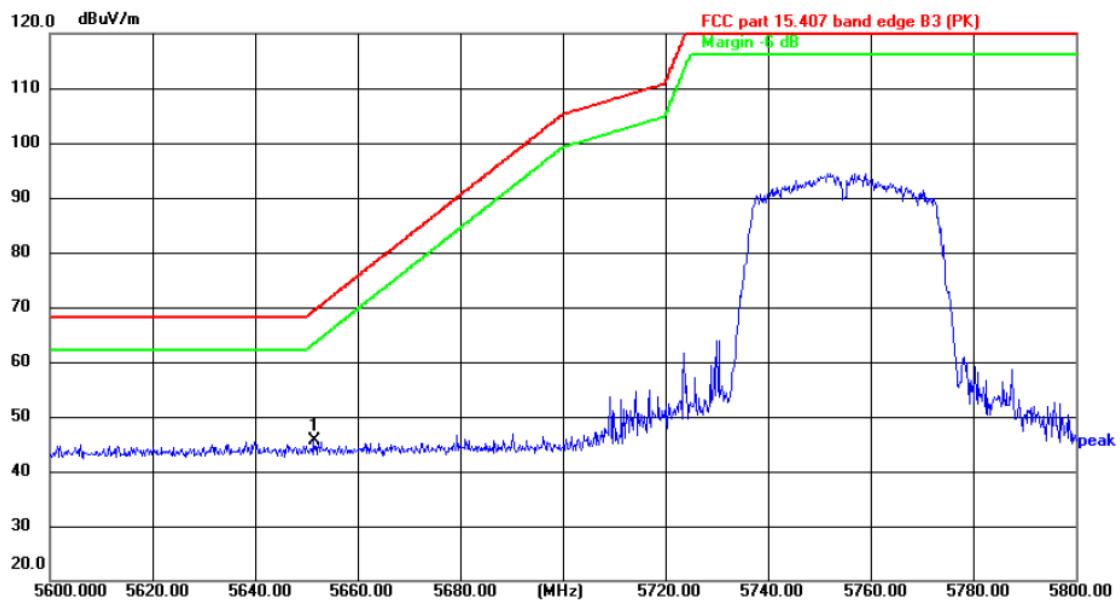
AC40-5755



Site: 3m Anechoic Chamber Polarization: **Horizontal** Temperature: 21.2(°C) Humidity: 36 %

Limit: FCC part 15.407 band edge B3 (PK) Power:DC 7.6V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5643.400	54.93	-6.76	48.17	68.20	-20.03	peak	P	

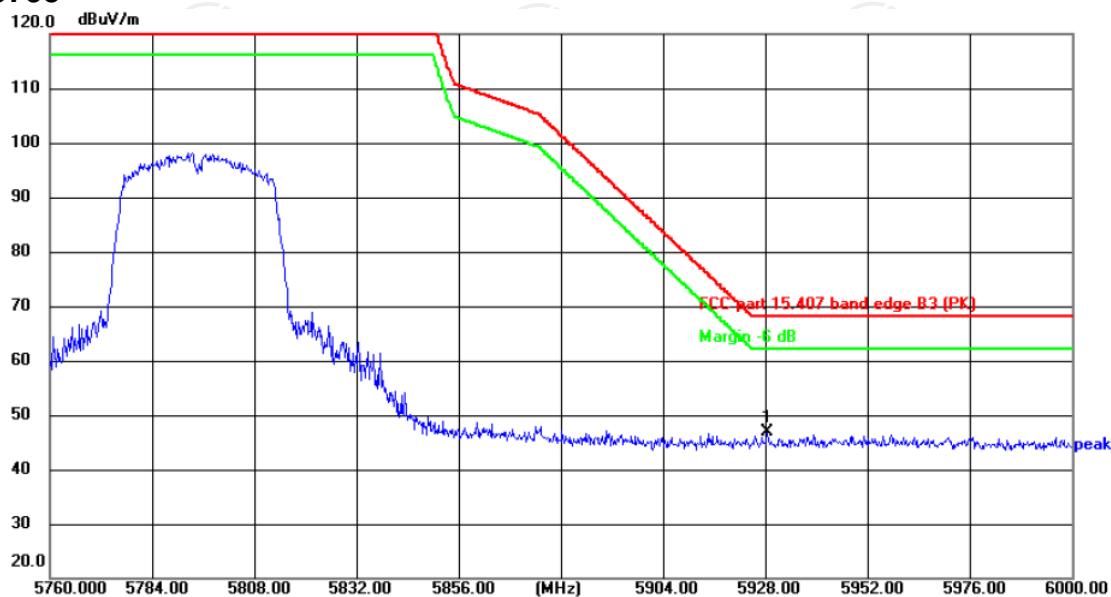


Site: 3m Anechoic Chamber Polarization: **Vertical** Temperature: 21.2(°C) Humidity: 36 %

Limit: FCC part 15.407 band edge B3 (PK) Power:DC 7.6V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5651.525	52.37	-6.74	45.63	69.33	-23.70	peak	P	

AC40-5795



Site: 3m Anechoic Chamber

Polarization: **Horizontal**

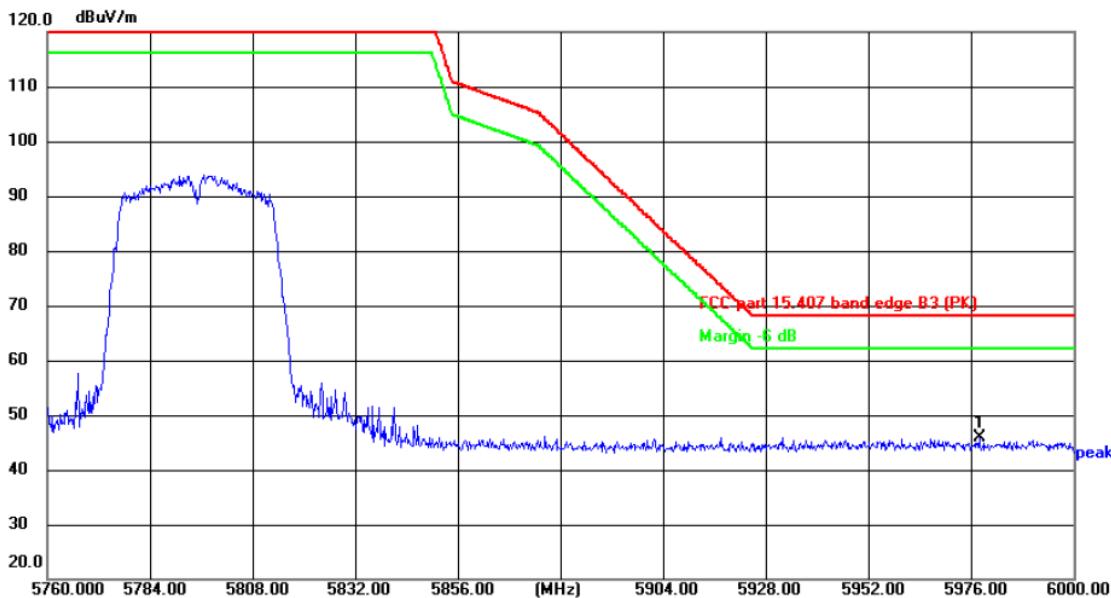
Temperature: 21.2(°C)

Humidity: 36 %

Limit: FCC part 15.407 band edge B3 (PK)

Power: DC 7.6V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5928.510	52.45	-5.65	46.80	68.20	-21.40	peak	P	



Site: 3m Anechoic Chamber

Polarization: **Vertical**

Temperature: 21.2(°C)

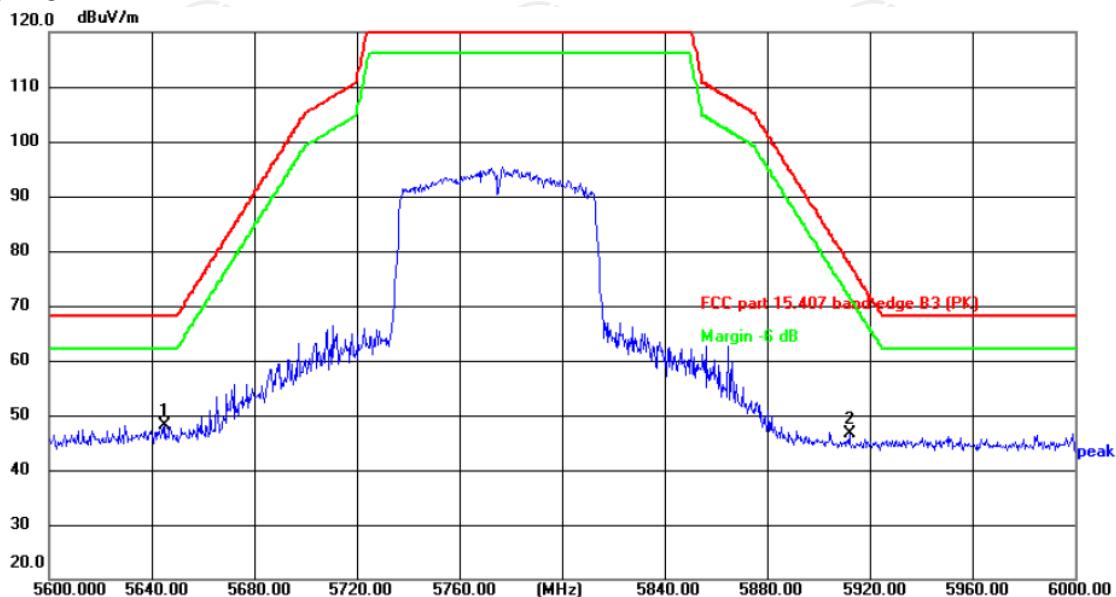
Humidity: 36 %

Limit: FCC part 15.407 band edge B3 (PK)

Power: DC 7.6V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5978.010	51.34	-5.41	45.93	68.20	-22.27	peak	P	

AC80-5775



Site: 3m Anechoic Chamber

 Polarization: **Horizontal**

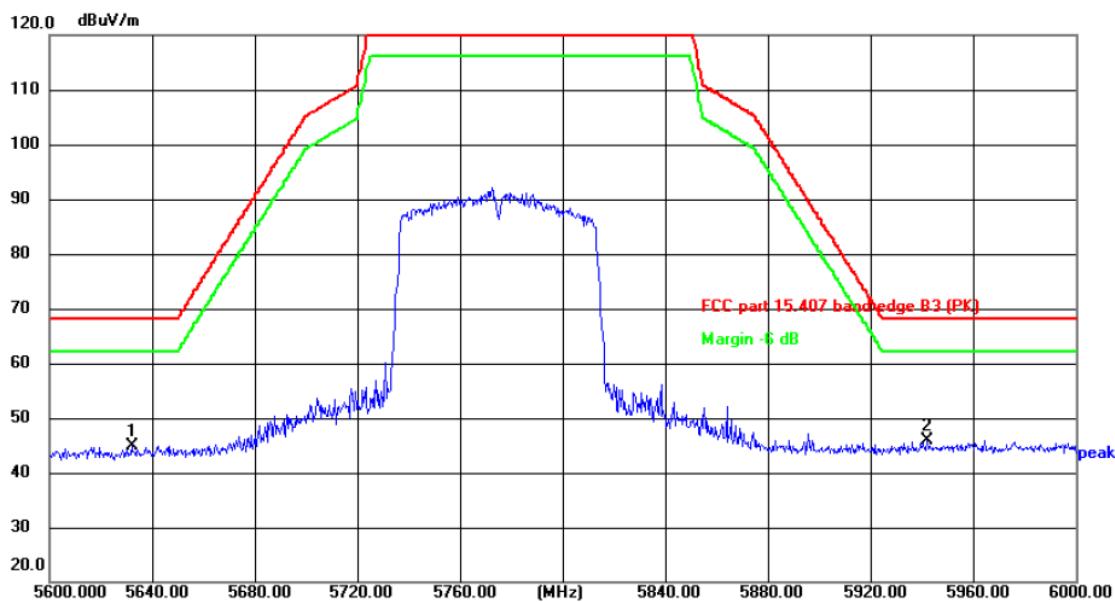
Temperature: 21.2(°C)

Humidity: 36 %

Limit: FCC part 15.407 band edge B3 (PK)

Power: DC 7.6V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5645.300	54.97	-6.76	48.21	68.20	-19.99	peak	P	
2	5912.000	52.37	-5.72	46.65	77.82	-31.17	peak	P	



Site: 3m Anechoic Chamber

 Polarization: **Vertical**

Temperature: 21.2(°C)

Humidity: 36 %

Limit: FCC part 15.407 band edge B3 (PK)

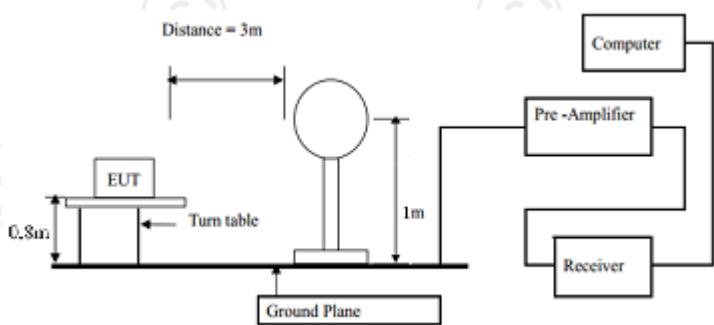
Power: DC 7.6V

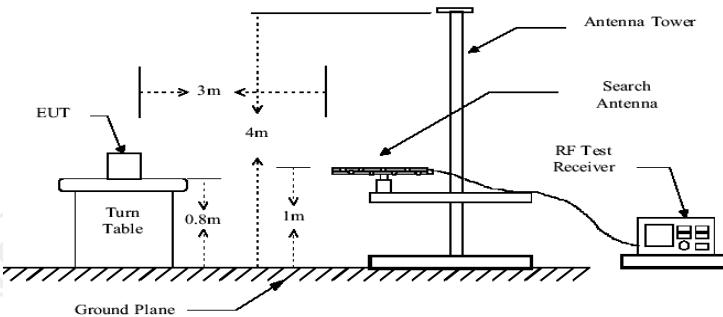
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5632.150	51.79	-6.80	44.99	68.20	-23.21	peak	P	
2 *	5942.000	51.49	-5.59	45.90	68.20	-22.30	peak	P	

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

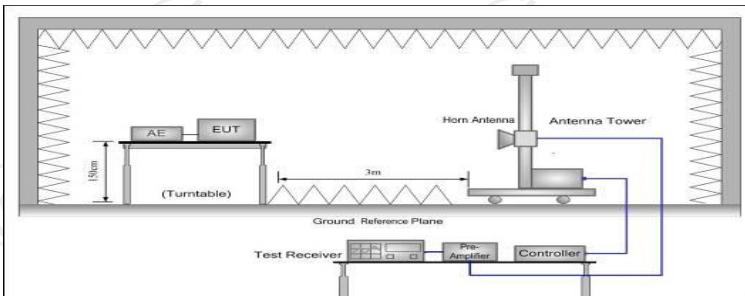
5.4. Unwanted Emissions

5.4.1. 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	74dB μ V/m					
		AVG	54dB μ V/m					
	Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)					
	0.009-0.490	2400/F(KHz)	300					
	0.49 -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: 68.2dB μ V/m							
Test setup:	For radiated emissions below 30MHz							
								
	30MHz to 1GHz							



Above 1GHz



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 rotatable 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 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, quasi-peak or average method as specified and then reported in a data sheet.

Test Procedure:

Test results:

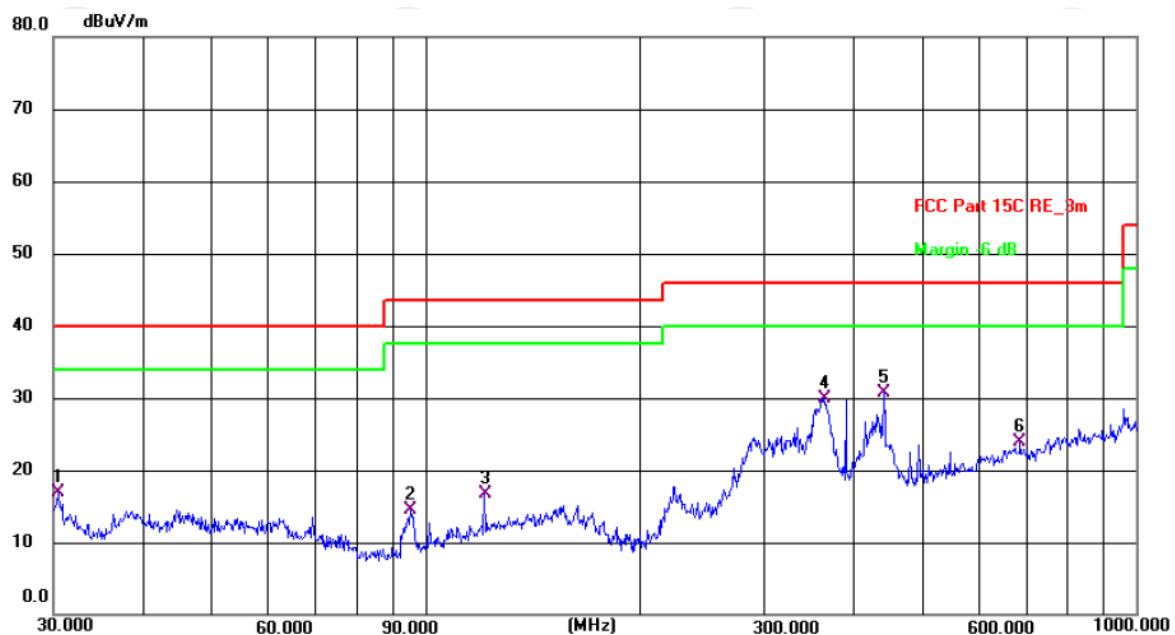
PASS

5.4.2. Test Data

Please refer to following diagram for individual

Below 1GHz

Horizontal:



Site 3m Anechoic Chamber2

Polarization: *Horizontal*

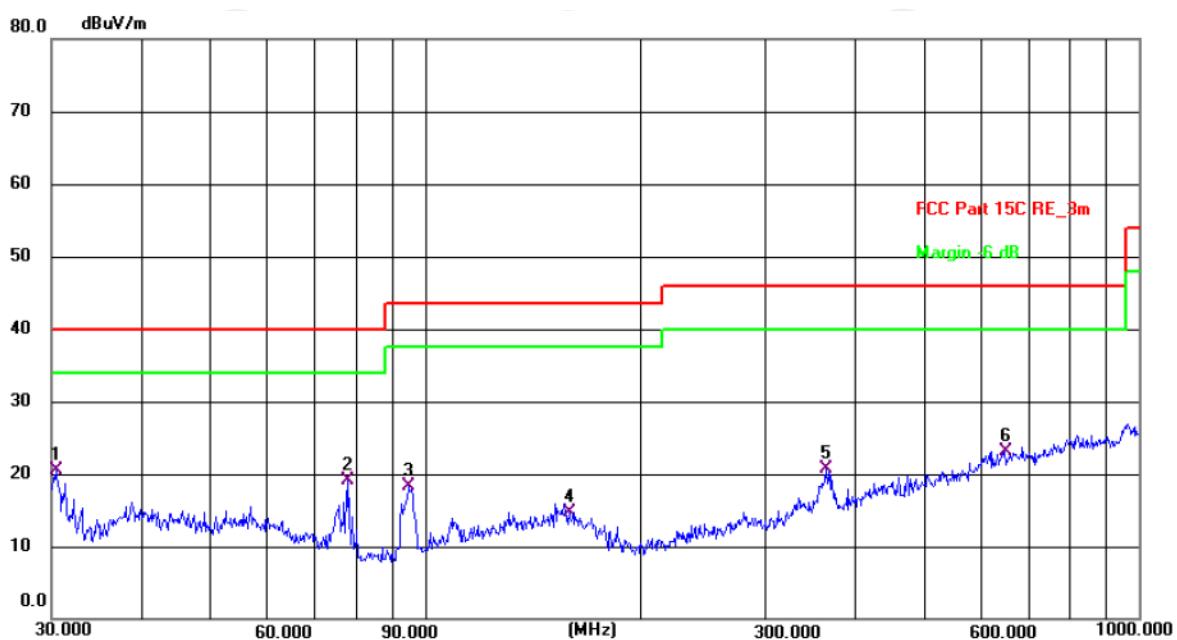
Temperature: 21.4(C) Humidity: 51 %

Limit: FCC Part 15C RE_3m

Power: DC 7.6 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	30.4237	36.51	-19.58	16.93	40.00	-23.07	QP	P	
2	95.4269	36.44	-21.89	14.55	43.50	-28.95	QP	P	
3	121.1231	35.83	-19.11	16.72	43.50	-26.78	QP	P	
4	362.9844	45.96	-16.02	29.94	46.00	-16.06	QP	P	
5 *	441.7425	44.48	-13.74	30.74	46.00	-15.26	QP	P	
6	687.1506	32.48	-8.54	23.94	46.00	-22.06	QP	P	

Vertical:



Site 3m Anechoic Chamber2

 Polarization: **Vertical**

Temperature: 21.4(C) Humidity: 51 %

Limit: FCC Part 15C RE_3m

Power: DC 7.6 V

No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	P/F	Remark
1 *	30.4237	40.11	-19.58	20.53	40.00	-19.47	QP	P	
2	78.1388	40.98	-21.83	19.15	40.00	-20.85	QP	P	
3	94.7600	40.21	-21.96	18.25	43.50	-25.25	QP	P	
4	159.2251	31.97	-17.25	14.72	43.50	-28.78	QP	P	
5	364.2595	36.69	-15.92	20.77	46.00	-25.23	QP	P	
6	649.6596	31.93	-8.73	23.20	46.00	-22.80	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) and the worst case Mode (Middle channel and 802.11n(HT20) in U-NII Band1) was submitted only.
3. Measurement (dB μ V) = 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 (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
10360	H	38.14	---	1.78	39.92	---	68.2	---	-28.28
15540	H	39.23	---	5.21	44.44	---	74	54	-9.56
---	H	---	---	---	---	---	---	---	---
10360	V	38.6	---	1.78	40.38	---	68.2	---	-27.82
15540	V	40.94	---	5.21	46.15	---	74	54	-7.85
---	V	---	---	---	---	---	---	---	---
11a CH40: 5200MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
10400	H	39.56	---	1.83	41.39	---	68.2	---	-26.81
15600	H	40.04	---	5.23	45.27	---	74	54	-8.73
---	H	---	---	---	---	---	---	---	---
10400	V	40.31	---	1.83	42.14	---	68.2	---	-26.06
15600	V	41.68	---	5.23	46.91	---	74	54	-7.09
---	V	---	---	---	---	---	---	---	---
11a CH48: 5240MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
10480	H	38.19	---	1.85	40.04	---	68.2	---	-28.16
15720	H	39.62	---	5.25	44.87	---	74	54	-9.13
---	H	---	---	---	---	---	---	---	---
10480	V	38.11	---	1.85	39.96	---	68.2	---	-28.24
15720	V	40.5	---	5.25	45.75	---	74	54	-8.25
---	V	---	---	---	---	---	---	---	---
11n(HT20) CH36: 5180MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
10360	H	41.73	---	1.78	43.51	---	68.2	---	-24.69
15540	H	40.24	---	5.21	45.45	---	74	54	-8.55
---	H	---	---	---	---	---	---	---	---
10360	V	42.09	---	1.78	43.87	---	68.2	---	-24.33
15540	V	41.48	---	5.21	46.69	---	74	54	-7.31
---	V	---	---	---	---	---	---	---	---

11n(HT20) CH40: 5200MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
10400	H	40.16	---	1.83	41.99	---	68.2	---	-26.21
15600	H	41.25	---	5.23	46.48	---	74	54	-7.52
---	H	---	---	---	---	---	---	---	---
10400	V	40.07	---	1.83	41.9	---	68.2	---	-26.3
15600	V	39.72	---	5.23	44.95	---	74	54	-9.05
---	V	---	---	---	---	---	---	---	---
11n(HT20) CH48: 5240MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
10480	H	41.98	---	1.85	43.83	---	68.2	---	-24.37
15720	H	41.45	---	5.25	46.7	---	74	54	-7.3
---	H	---	---	---	---	---	---	---	---
10480	V	40.11	---	1.85	41.96	---	68.2	---	-26.24
15720	V	40.26	---	5.25	45.51	---	74	54	-8.49
---	V	---	---	---	---	---	---	---	---
11n(HT40) CH38: 5190MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
10380	H	42.02	---	1.80	43.82	---	68.2	---	-24.38
15570	H	41.8	---	5.22	47.02	---	74	54	-6.98
---	H	---	---	---	---	---	---	---	---
10380	V	40.86	---	1.80	42.66	---	68.2	---	-25.54
15570	V	39.54	---	5.22	44.76	---	74	54	-9.24
---	V	---	---	---	---	---	---	---	---
11n(HT40) CH46: 5230MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
10460	H	41.66	---	1.85	43.51	---	68.2	---	-24.69
15690	H	39.44	---	5.08	44.52	---	74	54	-9.48
---	H	---	---	---	---	---	---	---	---
10460	V	41.41	---	1.85	43.26	---	68.2	---	-24.94
15690	V	40.38	---	5.08	45.46	---	74	54	-8.54
---	V	---	---	---	---	---	---	---	---

11ac(VHT20) CH36: 5180MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
10360	H	40.59	---	1.78	42.37	---	68.2	---	-25.83
15540	H	39.44	---	5.21	44.65	---	74	54	-9.35
---	H	---	---	---	---	---	---	---	---
10360	V	38.91	---	1.78	40.69	---	68.2	---	-27.51
15540	V	39.67	---	5.21	44.88	---	74	54	-9.12
---	V	---	---	---	---	---	---	---	---

11ac(VHT20) CH40: 5200MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
10400	H	40.55	---	1.83	42.38	---	68.2	---	-25.82
15600	H	40.12	---	5.23	45.35	---	74	54	-8.65
---	H	---	---	---	---	---	---	---	---
10400	V	39.66	---	1.83	41.49	---	68.2	---	-26.71
15600	V	39.48	---	5.23	44.71	---	74	54	-9.29
---	V	---	---	---	---	---	---	---	---

11ac(VHT20) CH48:5240

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
10480	H	37.46	---	1.85	39.31	---	68.2	---	-28.89
15720	H	38.92	---	5.25	44.17	---	74	54	-9.83
---	H	---	---	---	---	---	---	---	---
10480	V	38.21	---	1.85	40.06	---	68.2	---	-28.14
15720	V	39.4	---	5.25	44.65	---	74	54	-9.35
---	V	---	---	---	---	---	---	---	---

11ac(VHT40) CH38:5190

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
10380	H	40.21	---	1.80	42.01	---	68.2	---	-26.19
15570	H	39.73	---	5.22	44.95	---	74	54	-9.05
---	H	---	---	---	---	---	---	---	---
10380	V	38.36	---	1.80	40.16	---	68.2	---	-28.04
15570	V	39.58	---	5.22	44.8	---	74	54	-9.2
---	V	---	---	---	---	---	---	---	---

11ac(VHT40) CH46:5230									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
10460	H	38.66	---	1.85	40.51	---	68.2	---	-27.69
15690	H	39.51	---	5.08	44.59	---	74	54	-9.41
---	H	---	---	---	---	---	---	---	---
10460	V	39.44	---	1.85	41.29	---	68.2	---	-26.91
15690	V	40.37	---	5.08	45.45	---	74	54	-8.55
---	V	---	---	---	---	---	---	---	---
11ac(VHT80) CH42:5210									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
10420	H	38.65	---	1.84	40.49	---	68.2	---	-27.71
15630	H	39.13	---	5.17	44.3	---	74	54	-9.7
---	H	---	---	---	---	---	---	---	---
10420	V	38.66	---	1.84	40.5	---	68.2	---	-27.7
15630	V	39.59	---	5.17	44.76	---	74	54	-9.24
---	V	---	---	---	---	---	---	---	---

Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/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 (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
11490	H	44.25	---	2.48	46.73	---	74	54	-7.27
17235	H	37.23	---	6.50	43.73	---	68.2	---	-24.47
---	H	---	---	---	---	---	---	---	---
11490	V	45.9	---	2.48	48.38	---	74	54	-5.62
17235	V	38.82	---	6.50	45.32	---	68.2	---	-22.88
---	V	---	---	---	---	---	---	---	---
11a CH157: 5785MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
11570	H	43.35	---	2.42	45.77	---	74	54	-8.23
17355	H	38.64	---	7.03	45.67	---	68.2	---	-22.53
---	H	---	---	---	---	---	---	---	---
11570	V	43.57	---	2.42	45.99	---	74	54	-8.01
17355	V	39.31	---	7.03	46.34	---	68.2	---	-21.86
---	V	---	---	---	---	---	---	---	---
11a CH165: 5825MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
11650	H	43.73	---	2.41	46.14	---	74	54	-7.86
17475	H	36.05	---	7.41	43.46	---	68.2	---	-24.74
---	H	---	---	---	---	---	---	---	---
11650	V	43.26	---	2.41	45.67	---	74	54	-8.33
17475	V	38.51	---	7.41	45.92	---	68.2	---	-22.28
---	V	---	---	---	---	---	---	---	---
11n(HT20) CH149: 5745MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
11490	H	44.28	---	2.48	46.76	---	74	54	-7.24
17235	H	38.35	---	6.50	44.85	---	68.2	---	-23.35
---	H	---	---	---	---	---	---	---	---
11490	V	44.79	---	2.48	47.27	---	74	54	-6.73
17235	V	37.41	---	6.50	43.91	---	68.2	---	-24.29
---	V	---	---	---	---	---	---	---	---

11n(HT20) CH157: 5785MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
11570	H	44.33	---	2.42	46.75	---	74	54	-7.25
17355	H	39.95	---	7.03	46.98	---	68.2	---	-21.22
---	H	---	---	---	---	---	---	---	---
11n(HT20) CH165: 5825MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
11650	H	45.39	---	2.41	47.8	---	74	54	-6.2
17475	H	37.27	---	7.41	44.68	---	68.2	---	-23.52
---	H	---	---	---	---	---	---	---	---
11650	V	45.71	---	2.41	48.12	---	74	54	-5.88
17475	V	40.64	---	7.41	48.05	---	68.2	---	-20.15
---	V	---	---	---	---	---	---	---	---
11n(HT40) CH151: 5755MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
11510	H	44.23	---	2.47	46.7	---	74	54	-7.3
17265	H	37.42	---	6.62	44.04	---	68.2	---	-24.16
---	H	---	---	---	---	---	---	---	---
11510	V	44.75	---	2.47	47.22	---	74	54	-6.78
17265	V	38.08	---	6.62	44.7	---	68.2	---	-23.5
---	V	---	---	---	---	---	---	---	---
11n(HT40) CH159: 5795MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
11590	H	44.46	---	2.40	46.86	---	74	54	-7.14
17385	H	38.84	---	7.15	45.99	---	68.2	---	-22.21
---	H	---	---	---	---	---	---	---	---
11590	V	44.01	---	2.40	46.41	---	74	54	-7.59
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 (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
11490	H	44.75	---	2.48	47.23	---	74	54	-6.77
17235	H	37.36	---	6.50	43.86	---	68.2	---	-24.34
---	H	---	---	---	---	---	---	---	---
11490	V	44.89	---	2.48	47.37	---	74	54	-6.63
17235	V	38.12	---	6.50	44.62	---	68.2	---	-23.58
---	V	---	---	---	---	---	---	---	---
11ac(VHT20) CH157: 5785MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
11570	H	43.82	---	2.42	46.24	---	74	54	-7.76
17355	H	36.51	---	7.03	43.54	---	68.2	---	-24.66
---	H	---	---	---	---	---	---	---	---
11570	V	43.4	---	2.42	45.82	---	74	54	-8.18
17355	V	38.94	---	7.03	45.97	---	68.2	---	-22.23
---	V	---	---	---	---	---	---	---	---
11ac(VHT20) CH165: 5825MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
11650	H	44.92	---	2.41	47.33	---	74	54	-6.67
17475	H	38.88	---	7.41	46.29	---	68.2	---	-21.91
---	H	---	---	---	---	---	---	---	---
11650	V	44.73	---	2.41	47.14	---	74	54	-6.86
17475	V	40.22	---	7.41	47.63	---	68.2	---	-20.57
---	V	---	---	---	---	---	---	---	---
11ac(VHT40) CH151: 5755MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
11510	H	44.77	---	2.47	47.24	---	74	54	-6.76
17265	H	37.65	---	6.62	44.27	---	68.2	---	-23.93
---	H	---	---	---	---	---	---	---	---
11510	V	43.99	---	2.47	46.46	---	74	54	-7.54
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 (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
11590	H	43.85	---	2.40	46.25	---	74	54	-7.75
17385	H	37.14	---	7.15	44.29	---	68.2	---	-23.91
---	H	---	---	---	---	---	---	---	---
11590	V	42.41	---	2.40	44.81	---	74	54	-9.19
17385	V	38.97	---	7.15	46.12	---	68.2	---	-22.08
---	V	---	---	---	---	---	---	---	---
11ac(VHT80) CH155: 5775MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
11550	H	43.37	---	2.44	45.81	---	74	54	-8.19
17325	H	38.22	---	6.89	45.11	---	68.2	---	-23.09
---	H	---	---	---	---	---	---	---	---
11550	V	43.61	---	2.44	46.05	---	74	54	-7.95
17325	V	38.63	---	6.89	45.52	---	68.2	---	-22.68
---	V	---	---	---	---	---	---	---	---

Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/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.

Appendix B: Photographs of Test Setup

Please refer to document Appendix No.: TCT241209E906-A.

Appendix C: Photographs of EUT

Please refer to document Appendix No.: TCT241209E906-B & TCT241209E906-C.

*******END OF REPORT*******