ACCREDITED
CERTIFICATE #5473.01

Test Report No.:
FCC2022-0062-RF3

RF Test Report

EUT	:	**LNX3 Mobile Printer**
MODEL	:	**LNX3-1**
BRAND NAME	:	**Honeywell**
APPLICANT	:	**HONEYWELL INTERNATIONAL INC.** **HONEYWELL SAFETY AND PRODUCTIVITY SOLUTIONS**
CLASSIFICATION OF TEST	:	**N/A**

CVC Testing Technology Co., Ltd.

Applicant	**Name : HONEYWELL INTERNATIONAL INC.** **HONEYWELL SAFETY AND PRODUCTIVITY SOLUTIONS** **Address : 9680 OLD BAILES RD., FORT MILL SC 29707-7539, USA**
Manufacturer	**Name : HONEYWELL INTERNATIONAL INC.** **HONEYWELL SAFETY AND PRODUCTIVITY SOLUTIONS** **Address : 9680 OLD BAILES RD., FORT MILL SC 29707-7539, USA**
Equipment Under Test	**Name: LNX3 Mobile Printer** **Model/Type: LNX3-1** **Brand: Honeywell** **Serial No.: N/A** **Sample No.: 3-1**

Date of Receipt.	**2022.08.29**	Date of Testing	**2022.08.30～2022.11.10**

Test Specification	**Test Result**
FCC Part 15, Subpart E (15.407) **Canada RSS-247 Issue 2 (2017-02)** **Canada RSS-Gen Issue 5+A1+A2 (2021-02)**	PASS

Evaluation of Test Result	The equipment under test was found to comply with the requirements of the standards applied. Seal of CVC **Issue Date: 2022.12.29**

Tested by:	Reviewed by:	Approved by:
Xu ZhenFei	**Liu YongHai**	**Chen HuaWen**
Name Signature	Name Signature	Name Signature

Other Aspects: NONE.

Abbreviations:OK, Pass= passed Fail = failed N/A= not applicable EUT= equipment, sample(s) under tested

This test report relates only to the EUT, and shall not be reproduced except in full, without written approval of CVC.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FCC2022-0062-RF3	Original release	2022.12.29

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART E (SECTION 15.407) , Canada RSS-247 , Canada RSS-Gen			
STANDARD SECTION	**TEST TYPE**	**RESULT**	**REMARK**
15.207 RSS-Gen 8.8	Conducted Emissions	PASS	Meet the requirement of limit.
15.403(i) RSS-247 6.2.4 (1)	6dB&26dB Emission Bandwidth	PASS	Meet the requirement of limit.
RSS-Gen 6.7	Occupied Bandwidth Measurement	PASS	Meet the requirement of limit.
15.407(b) RSS-247 6.2.1 (2) RSS-247 6.2.2 (2) RSS-247 6.2.3 (2) RSS-247 6.2.4 (2)	Radiated Emissiont and Bandedge	PASS	Meet the requirement of limit.
15.407(a) RSS-247 6.2.1 (1) RSS-247 6.2.2 (1) RSS-247 6.2.3 (1) RSS-247 6.2.4 (1)	Transmit Power	PASS	Meet the requirement of limit.
15.407(a) RSS-247 6.2.1 (1) RSS-247 6.2.2 (1) RSS-247 6.2.3 (1) RSS-247 6.2.4 (1)	Power Spectral Density	PASS	Meet the requirement of limit.
15.407(g)	Frequency Stability	PASS	Meet the requirement of limit.
15.203 15.407(a)	Antenna Requirement	PASS	No antenna connector is used

Note: Refer to DFS report (Report No. FCC2022-0062-RF4)

1.1 LIST OF TEST AND MEASUREMENT INSTRUMENTS

Test Equipment	Type/Mode	SERIAL NO.	Equipment No.	Manufacturer	Cal. Due
WIFI & Bluetooth Test System 1					/
Communication Shielded Room 2	4m*3m*3m	CRTDSWKSR 44301	VGDS-0700	CRT	2024/04/24
Bluetooth system integration	/	/	-	Tonscend	/
Spectrum Analyzer	FSV40	101580	DZ-000238-3	R&S	2023/06/05
Comprehensive Test Instrument	CMW270	100304	DZ-000240-1	R&S	2023/12/06
Analog Signal Generator	SMB100A	181858	DZ-000238-2	R&S	2023/06/05
Vector Signal Generator	SGT100A	111661	DZ-000238-1	R&S	2023/06/05
RF Radio Frequency Switch	JS0806-2	19H9080187	`	Tonscend	2023/06/06
Programmable DC Power Supply	E3644A	MY58036222	DZ-000178	KEYSIGHT	2023/04/21
Radiation Spurious Test System					/
3m Semi-Anechoic Chamber	FACT-4	ST08035	WKNA-0024	ETS	2024/12/12
Spectrum Analyzer	N9010B	MY57470323	DZ-000174	KEYSIGHT	2023/03/02
EMI Test Receiver	N9038A-508	MY532290079	EM-000397	Agilent	2023/03/02
Broadband Antenna	VULB 9163	9163-530	EM-000342	SCHWARZBECK	2023/06/25
Waveguide Horn Antenna	HF906	360306/008	EM-000093	R&S	2023/03/04
Waveguide Horn Antenna	BBHA9170	00949	DZ-000209-2	SCHWARZBECK	2023/07/31
Preamplifier	BBV 9721	9721-050	DZ-000209-1	SCHWARZBECK	2023/06/05
5G Bandstop Filters	WRCJV12-4900-5100-5900-6100-50EE	851770	DZ-000186	WI	2023/12/06
Comprehensive tester	CMW500	159000	DZ-000240-2	R&S	2023/12/06
Conducted emission					/
EMI Test Receiver	ESCI	100857	WKNB-0081	R&S	2023-12-08
EMI Test Receiver	ESR3	102394	VGDY-0705	R&S	2023-03-04
LISN	NSLK 8127	8127644	VGDY-0150	SCHWARZBECK	2023-09-04
LISN	NSLK 8128	8128-316	VGDY-0149	SCHWARZBECK	2023-09-04
LISN	NSLK 8129	8129-268	EM-000388	SCHWARZBECK	2023-03-03
Plus Limiter（#1）	VTSD 9561 F-N	00515	VGDY-0808	SCHWARZBECK	2023-03-04
Plus Limiter（#2）	VTSD 9561	9561-F017	VGDY-0152	SCHWARZBECK	2024-09-04
Impedance Stabilization Network	ISN T800	27095	WKNE-0195	TESEQ	2023-09-04
Impedance Stabilization Network	NTFM8158	8158-0092	VGDY-0356	SCHWARZBECK	2023-06-07
ImpedanceStabilizationNetwork	NTFM8131	#184	EM-000498	SCHWARZBECK	2023-06-07
Voltage Probe	TK9420	9420-499	VGDY-0128	SCHWARZBECK	2023-03-04
Power Divider	4901.17.B	22643830	DB-0016	HUBER+SUHNER	2023-09-01
Video Signal Generator	GV-798+	151064920001	VGDS-0215	PROMAX	2023-05-30
Audio Signal Generator	GAG-810	EK871591	EM-000309	GW	2023-12-08
Shielding Room(#1)	GP1A	001	WKNF-0001	LEINING	2024-08-08
Shielding Room(#2)	GP1A	002	WKNF-0006	LEINING	2024-08-08
Current probe	EZ-17	0816.2063.02	EM-000567	R&S	2023-01-16

1.2 MEASUREMENT UNCERTAINTY

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

No.	ITEM	FREQUENCY	UNCERTAINTY
1	Conducted emissions	9kHz~30MHz	±2.66dB
2	Radiated emissions	9KHz ~ 30MHz	±0.769dB
		30MHz ~ 1GMHz	±0.877dB
		1GHz ~ 18GHz	±0.777dB
		18GHz ~ 40GHz	±1.315dB

1.3 TEST LOCATION

The tests and measurements refer to this report were performed by EMC testing Lab. of CVC Testing Technology Co., Ltd.

Address: No.3,TiantaiyiRoad,KaitaiAvenue,ScienceCity,Guangzhou,China
Post Code：510663 Tel：020-32293888
FAX：020-32293889 E-mail：office@cvc.org.cn

2 GENERAL INFORMATION

2.1 GENERAL PRODUCT INFORMATION

PRODUCT	LNX3 Mobile Printer
BRAND	Honeywell
MODEL NO.	LNX3-1
FCC ID	HD5-LNX3-1
IC ID	1693B-LNX31
POWER SUPPLY	1. DC 7.4V from Li-ion battery 2. DC 5V from Charging base 3. DC 5V from Adapter
MODULATION TECHNOLOGY	OFDM
MODULATION TYPE	64QAM, 16QAM, QPSK, BPSK for OFDM
TRANSFER RATE	802.11a: up to 54Mbps
OPERATING FREQUENCY	5180 ~ 5240MHz, 5260 ~ 5320MHz, 5500 ~ 5700MHz, 5745 ~ 5825MHz
NUMBER OF CHANNEL	See item 2.2
CONDUCTED OUTPUT POWER	14.54 dBm for 5180 ~ 5240MHz (Maximum AVG Power) 15.77 dBm for 5260 ~ 5320MHz (Maximum AVG Power) 14.23 dBm for 5500 ~ 5700MHz (Maximum AVG Power) 14.30 dBm for 5745 ~ 5825MHz (Maximum AVG Power)
ANTENNA TYPE（Remark 5）	5180MHz ~ 5240MHz: FPC Antenna, with 1.05dBi gain 5260MHz ~ 5320MHz: FPC Antenna, with 1.05dBi gain 5500MHz ~ 5700MHz: FPC Antenna, with 1.05dBi gain 5745MHz ~ 5825MHz: FPC Antenna, with 1.05dBi gain
HARDWARE VERSION:	V1.7
SOFTWARE VERSION:	V1.7
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	N/A

Remark:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
3. EUT photo refer to report (Report NO.: FCC2022-0062).
4. RSS-247 For the band 5600-5650 MHz, no operation is permitted. Until further notice, devices subject to this annex shall not be capable of transmitting in the band 5600-5650 MHz. This restriction is for the protection of Environment Canada weather radars operating in this band.
5. Please refer to the antenna report.
6. The EUT have SISO function, provides 1 completed transmitter and 1 receiver.

MODULATION MODE	TX FUNCTION
802.11a	1TX/1RX

2.2 Carrier Frequency and Channel

WLAN 5180 ~ 5240MHz

4 channels are provided for 802.11a:

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
36	**5180 MHz**	40	5200 MHz
44	**5220 MHz**	**48**	**5240 MHz**

WLAN 5.26 ~ 5.32GHz

4 channels are provided for 802.11a:

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
52	**5260MHz**	56	5280MHz
60	**5300MHz**	**64**	**5320MHz**

WLAN 5.50 ~ 5.72GHz

9 channels are provided for 802.11a:

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
100	**5500MHz**	124	5620MHz
104	5520MHz	128	5640MHz
108	5540MHz	132	5660MHz
112	5560MHz	136	5680MHz
116	**5580MHz**	**140**	**5700MHz**
120	5600MHz		

WLAN 5745 ~ 5825MHz

5 channels are provided for 802.11a:

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
149	**5745MHz**	153	5765MHz
157	**5785MHz**	161	5805MHz
165	**5825MHz**	--	--

1. The channels which were indicated in bold type of the above channel list were selected as representative test channel. Therefore only the data of the test channels were recorded in this report.
2. By means of test software which provided by manufacture, the power levels during the tests were set according to the following codes:

802.11a							
Operated in 5180 ~ 5240MHz band		Operated in 5260 ~ 5320MHz band		Operated in 5500 ~ 5720MHz band		Operated in 5745 ~ 5825MHz band	
FREQUENCY(MHZ)	POWER SETTING	FREQUENCY(MHZ)	POWER SETTING	FREQUENCY(MHZ)	POWER SETTING	FREQUENCY(MHZ)	POWER SETTING
5180	102	**5260**	102	**5500**	115	**5745**	115
5200	102	**5300**	102	**5580**	115	**5785**	115
5240	102	**5320**	102	**5700**	115	**5825**	115

FIX FREQUENCY SOFTWARE NAME：
UI_MPTOOL

2.3 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE≥1G	RE<1G	PLC	APCM	
-	√	√	√	√	**Powered by host unit with wifi(5G) link**

Where **RE ≥ 1G:** Radiated Emission above 1GHz **RE < 1G:** Radiated Emission below 1GHz

PLC: Power Line Conducted Emission **APCM:** Antenna Port Conducted Measurement

NOTE:

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **X-plane**.

NOTE: "-"means no effect.

MODULATION	DATA RATE
802.11a	6Mbps

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE<1G	25.2deg. C, 54%RH	DC 5V From USB Host Unit	Liu ShiWei
RE≥1G	25.2deg. C, 54%RH	DC 5V From USB Host Unit	Liu ShiWei
PLC	24.6deg. C, 56%RH	DC 5V From USB Host Unit	Liu ShiWei
APCM	24.6deg. C, 56%RH	DC 5V From USB Host Unit	Liu ShiWei

2.4 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.

Support Equipment					
NO	Description	Brand	Model No.	Serial Number	Supplied by
1	N/A	N/A	N/A	N/A	N/A

Support Cable							
NO	Description	Quantity (Number)	Length (m)	Detachable (Yes/ No)	Shielded (Yes/ No)	Cores (Number)	Supplied by
1	N/A	N/A	N/A	N/A	N/A	N/A	N/A

2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product, according to the specifications of the manufacturers. It must comply with the requirements of the following standards:

FCC Part 15, Subpart E (15.407)
KDB 789033 D02 General UNII Test Procedures New Rules v02r01
KDB 662911 D01 Multiple Transmitter Output v02r01
Canada RSS-247 Issue 2 (2017-02)
Canada RSS-Gen Issue 5+A1+A2 (2021-02)
ANSI C63.10-2020

All test items have been performed and recorded as per the above standards

3 TEST TYPES AND RESULTS

3.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

3.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:
1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 30dB under any condition of modulation.

3.1.2 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

APPLICABLE TO	LIMIT	
KDB 789033 D02 General UNII Test Procedures New Rules v02r01	FIELD STRENGTH AT 3m	
	PK: 74 (dBμV/m)	AV: 54 (dBμV/m)
APPLICABLE TO	**EIRP LIMIT**	**EQUIVALENT FIELD STRENGTH AT 3m**
15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)	Note	Note

NOTE:
For transmitters operating in the 5.725-5.85 GHz band:Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). An alternative to the band emissions mask is specified in Section 15.407(b)(4)(ii). The alternative limits are based on the highest antenna gain specified in the filing. There are also marketing and importation restrictions for the alternative limit.
15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3}$$ μV/m, where P is the eirp (Watts).

3.1.3 TEST PROCEDURES

a. The EUT was placed on the top of a rotating table 1.5 meters(above 1GHz) and 0.8 meters(below 1GHz) above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna is a broadband antenna, and its 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.

d. 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 table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

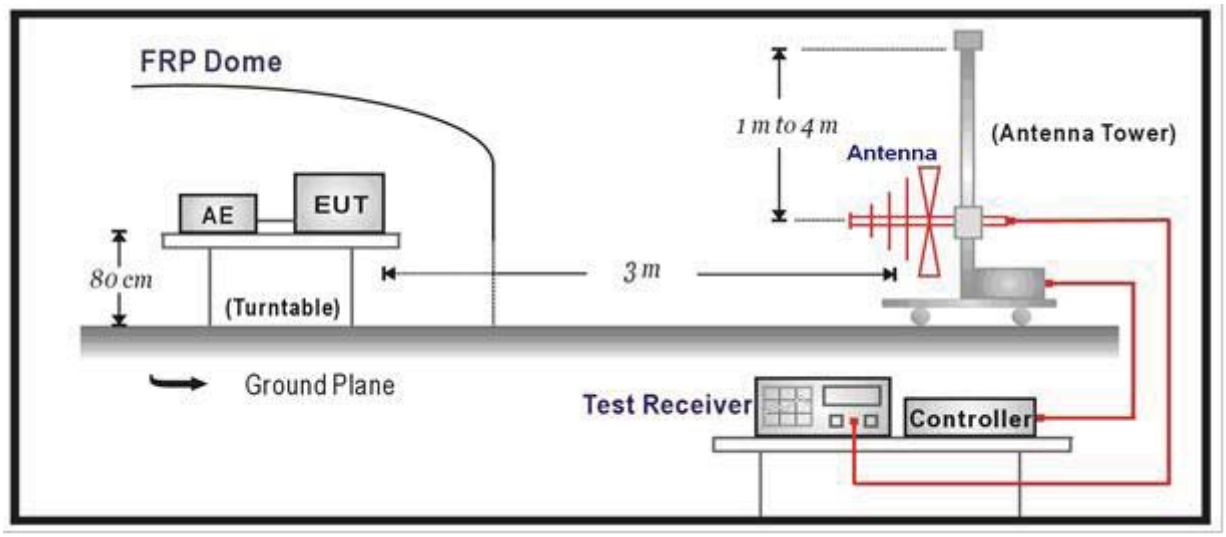
f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified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

NOTE:

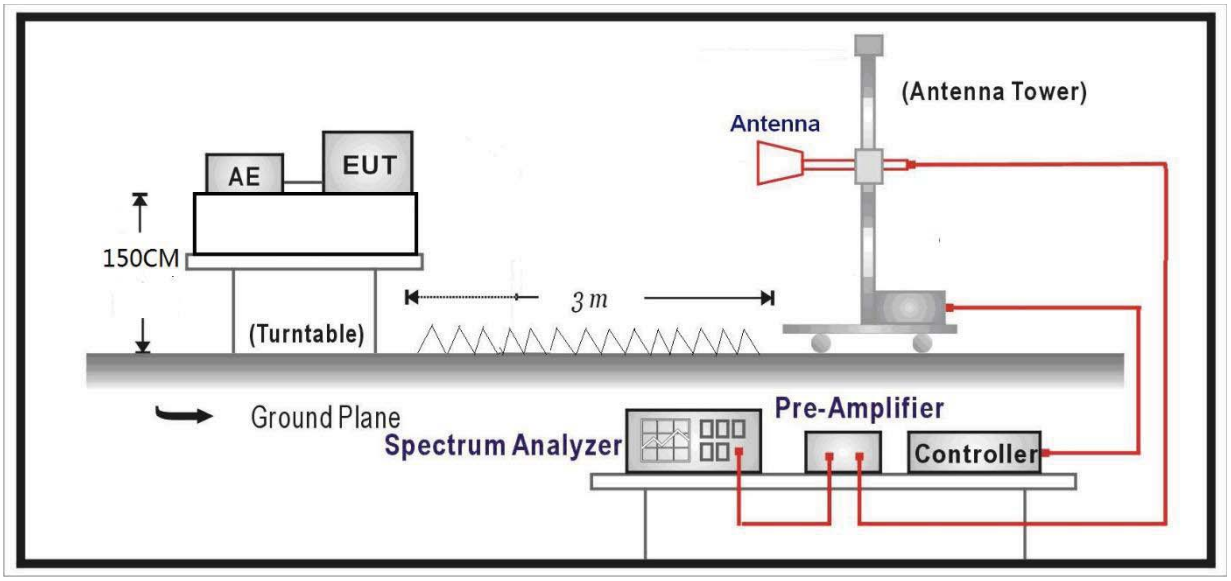
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10Hz(Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

3.1.4 TEST SETUP

Below 1GHz Test Setup:



Above 1GHz Test Setup:

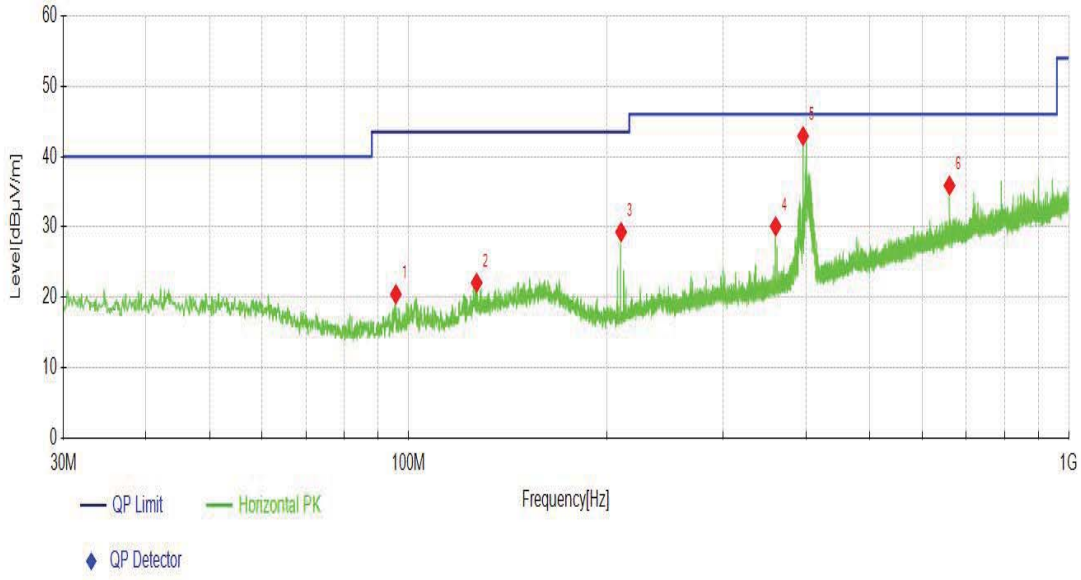


Note: For the actual test configuration, please refer to the related Item in this test report (Photographs of the Test Setup)

3.1.5 TEST RESULTS - BELOW 1GHz

Test Mode:	11a 5180	Frequency Range	30-1000MHz
Detector Function	Quasi-Peak(QP)		

Horizontal

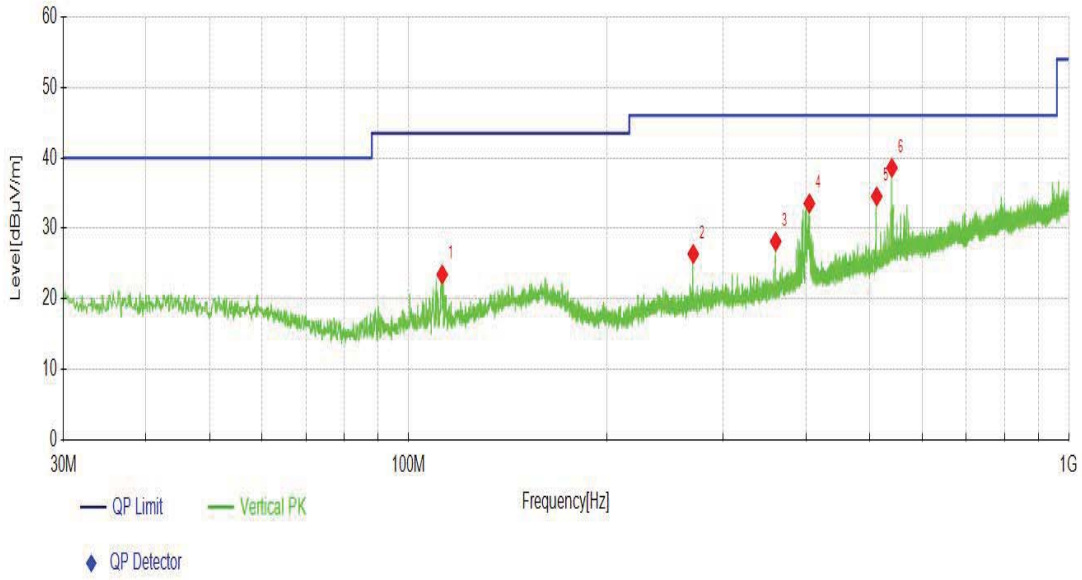


NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]
1	95.6756	4.41	16.00	20.41	43.50	23.09	200	307
2	126.8157	3.61	18.42	22.03	43.50	21.47	200	132
3	209.9530	12.42	16.84	29.26	43.50	14.24	100	234
4	359.9300	9.04	21.03	30.07	46.00	15.93	100	8
5	**396.0176**	**20.94**	**21.98**	**42.92**	**46.00**	**3.08**	**100**	**70**
6	659.9810	8.58	27.29	35.87	46.00	10.13	100	85

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBµV/m] - Level [dBµV/m]

Test Mode:	11a 5180	Frequency Range	30-1000MHz
Detector Function	Quasi-Peak(QP)		

Vertical



NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]
1	112.4582	6.36	17.07	23.43	43.50	20.07	200	305
2	270.0020	7.28	19.06	26.34	46.00	19.66	200	160
3	360.0270	7.07	21.03	28.10	46.00	17.90	200	160
4	404.8455	11.29	22.23	33.52	46.00	12.48	100	106
5	512.1382	10.35	24.17	34.52	46.00	11.48	100	277
6	539.9800	13.74	24.84	38.58	46.00	7.42	100	72

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBµV/m] - Level [dBµV/m]

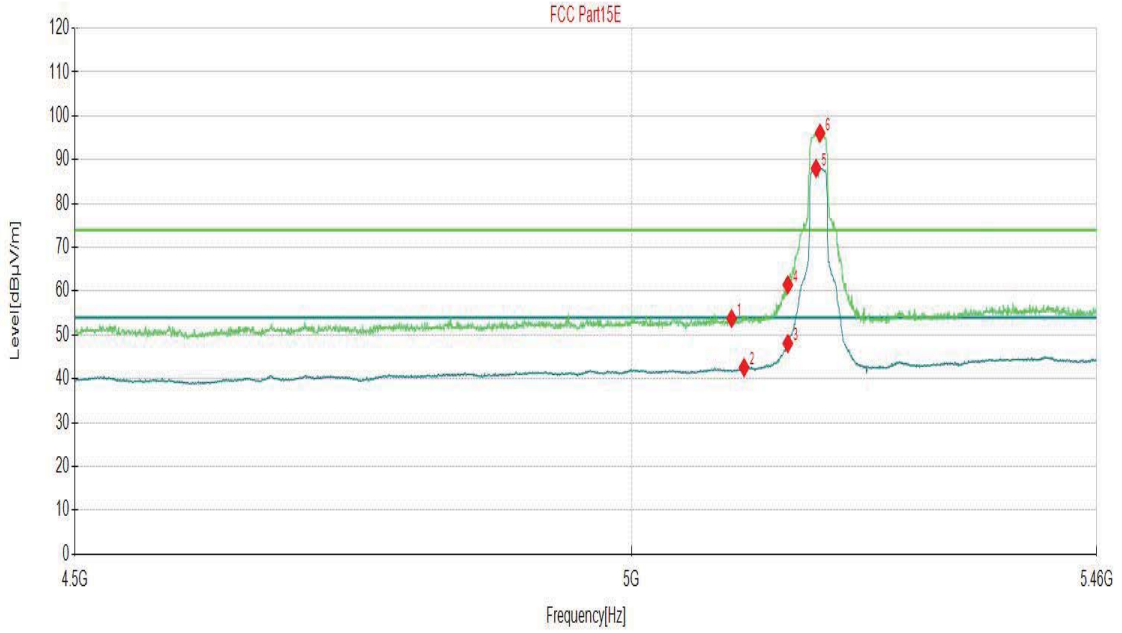
3.1.6 TEST RESULTS - Band 1 (5180-5240MHz):

ABOVE 1GHz DATA

Channel	802.11a CH36	Frequency	5180 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Horizontal

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5095.4977	46.19	7.57	53.76	74.00	20.24	290	236	PK
2	5107.5038	34.63	7.95	42.58	54.00	11.42	129	78	AV
3	5150.0000	40.02	8.03	48.05	54.00	5.95	276	40	AV
4	5150.0000	53.43	8.03	61.46	74.00	12.54	278	36	PK
5	5180.6188	80.13	7.89	88.02			275	38	AV
6	5180.4607	88.17	7.88	96.05			275	36	PK
7	10360.0000	37.00	14.09	51.09	68.20	17.11	304	32	PK
8	10360.0000	27.73	14.09	41.82	54.00	12.18	212	32	AV
9	15540.0000	24.06	19.38	43.44	74.00	30.56	297	298	PK
10	15540.0000	15.73	19.38	35.11	54.00	18.89	208	19	AV

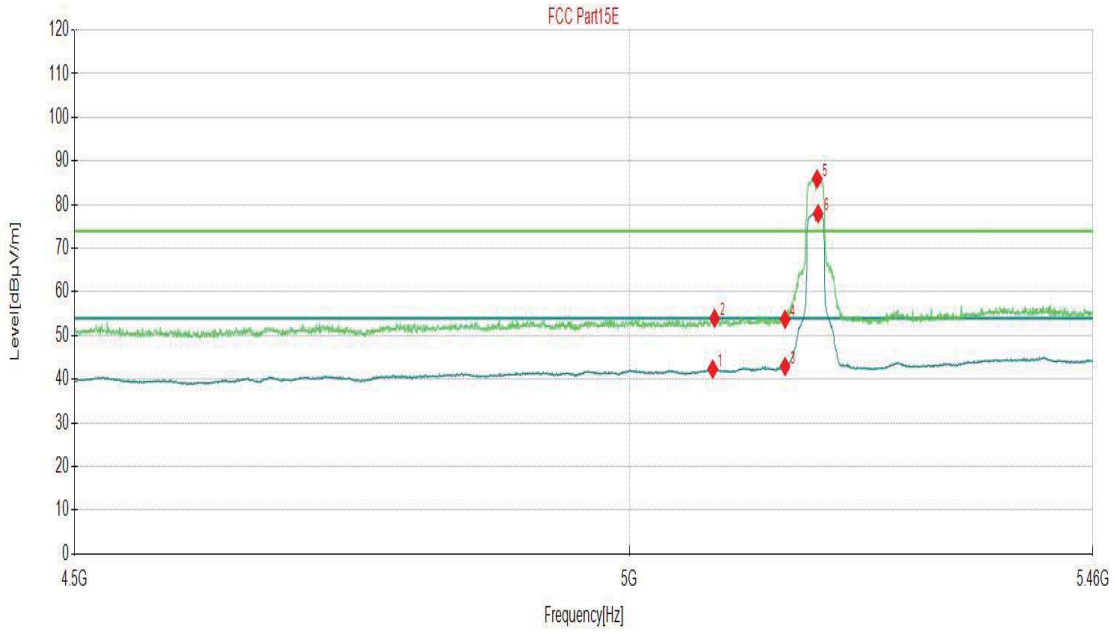


Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

Channel	**802.11a CH36**	**Frequency**	5180 MHz
Frequency Range	Above 1G	**Detector Function**	PK/AV

Vertical

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5079.6498	34.52	7.80	42.32	54.00	11.68	179	98	AV
2	5081.5708	46.18	7.78	53.96	74.00	20.04	265	280	PK
3	5150.0000	34.91	8.03	42.94	54.00	11.06	226	330	AV
4	5150.0000	45.70	8.03	53.73	74.00	20.27	161	79	PK
5	5180.4607	78.02	7.88	85.90			147	75	PK
6	5180.4212	70.09	7.85	77.94			291	75	AV
7	10360.0000	39.15	14.09	53.24	68.20	14.96	128	60	PK
8	10360.0000	30.25	14.09	44.34	54.00	9.66	198	40	AV
9	15540.0000	28.76	19.38	48.14	74.00	25.86	212	73	PK
10	15540.0000	19.44	19.38	38.82	54.00	15.18	261	73	AV



Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBµV/m] - Level [dBµV/m]

Channel	802.11a CH 40	Frequency	5200MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Horizontal

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	10400.0000	35.83	14.30	50.13	68.20	18.07	138	227	PK
2	10400.0000	27.27	14.30	41.57	54.00	12.43	256	227	AV
3	15600.0000	27.59	19.58	47.17	74.00	26.83	210	1	PK
4	15600.0000	17.16	19.58	36.74	54.00	17.26	145	150	AV

Vertical

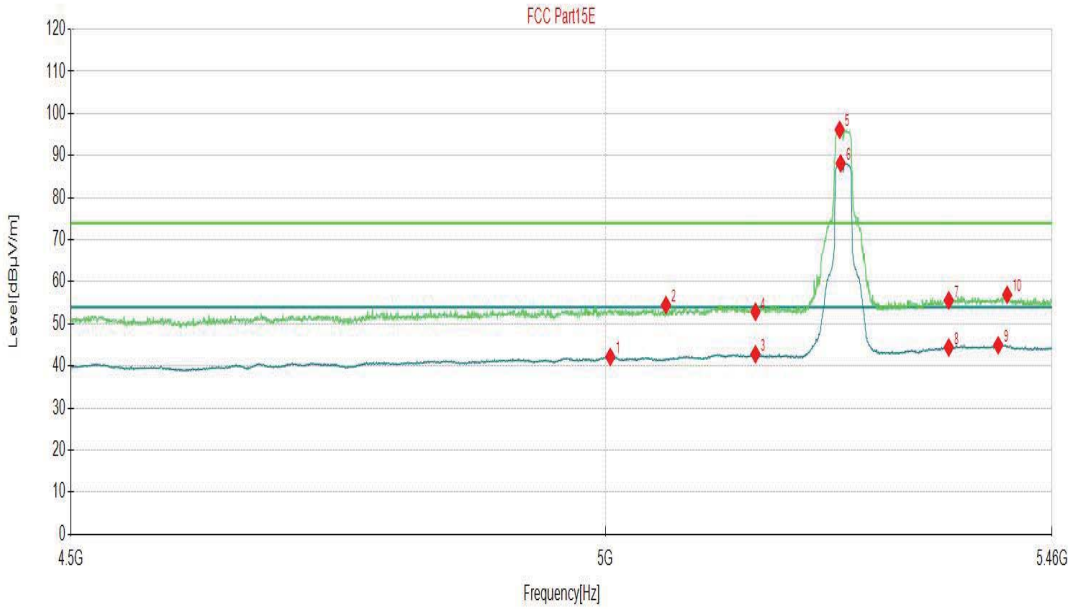
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	10400.0000	40.45	14.30	54.75	68.20	13.45	278	112	PK
2	10400.0000	29.26	14.30	43.56	54.00	10.44	284	109	AV
3	15600.0000	26.14	19.58	45.72	74.00	28.28	230	89	PK
4	15600.0000	15.82	19.58	35.40	54.00	18.60	156	96	AV

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

Channel	**802.11a CH48**	**Frequency**	5240 MHz
Frequency Range	Above 1G	**Detector Function**	PK/AV

Horizontal

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5004.7324	34.68	7.48	42.16	54.00	11.84	177	113	AV
2	5059.9600	47.14	7.35	54.49	74.00	19.51	220	253	PK
3	5150.0000	34.79	8.03	42.82	54.00	11.18	181	67	AV
4	5150.0000	44.85	8.03	52.88	74.00	21.12	175	22	PK
5	5240.2081	87.91	8.21	96.12			122	128	PK
6	5240.1686	79.94	8.21	88.15			202	128	AV
7	5350.0000	45.64	9.96	55.60	74.00	18.40	111	100	PK
8	5350.0000	34.46	9.96	44.42	54.00	9.58	215	33	AV
9	5402.3712	34.84	10.09	44.93	54.00	9.07	310	296	AV
10	5411.9760	46.73	10.19	56.92	74.00	17.08	182	88	PK
11	10480.0000	38.30	14.45	52.75	68.20	15.45	226	106	PK
12	10480.0000	28.01	14.45	42.46	54.00	11.54	168	113	AV
13	15720.0000	24.31	20.55	44.86	74.00	29.14	282	265	PK
14	15720.0000	15.03	20.55	35.58	54.00	18.42	227	269	AV

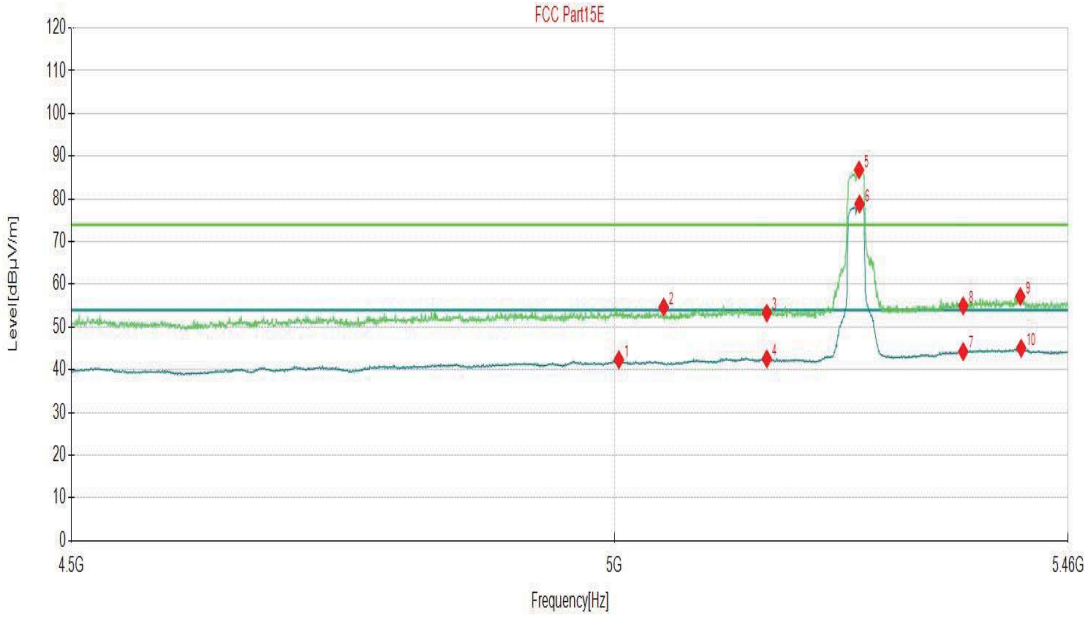


Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBµV/m] - Level [dBµV/m]

Channel	**802.11a CH48**	**Frequency**	5240 MHz
Frequency Range	Above 1G	**Detector Function**	PK/AV

Vertical

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5004.2521	34.87	7.48	42.35	54.00	11.65	158	20	AV
2	5047.9540	47.35	7.34	54.69	74.00	19.31	114	77	PK
3	5150.0000	45.26	8.03	53.29	74.00	20.71	296	218	PK
4	5150.0000	34.53	8.03	42.56	54.00	11.44	240	214	AV
5	5240.9315	78.53	8.23	86.76			250	1	PK
6	5240.4117	70.59	8.23	78.82			129	1	AV
7	5350.0000	34.30	9.96	44.26	54.00	9.74	166	24	AV
8	5350.0000	45.03	9.96	54.99	74.00	19.01	189	20	PK
9	5409.5748	46.87	10.28	57.15	74.00	16.85	299	136	PK
10	5410.5353	34.77	10.27	45.04	54.00	8.96	196	70	AV
11	10480.0000	25.29	14.45	39.74	54.00	14.26	259	73	AV
12	10480.0000	34.82	14.45	49.27	68.20	18.93	270	89	PK
13	15720.0000	15.79	20.55	36.34	54.00	17.66	283	150	AV
14	15720.0000	25.89	20.55	46.44	74.00	27.56	233	352	PK



Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

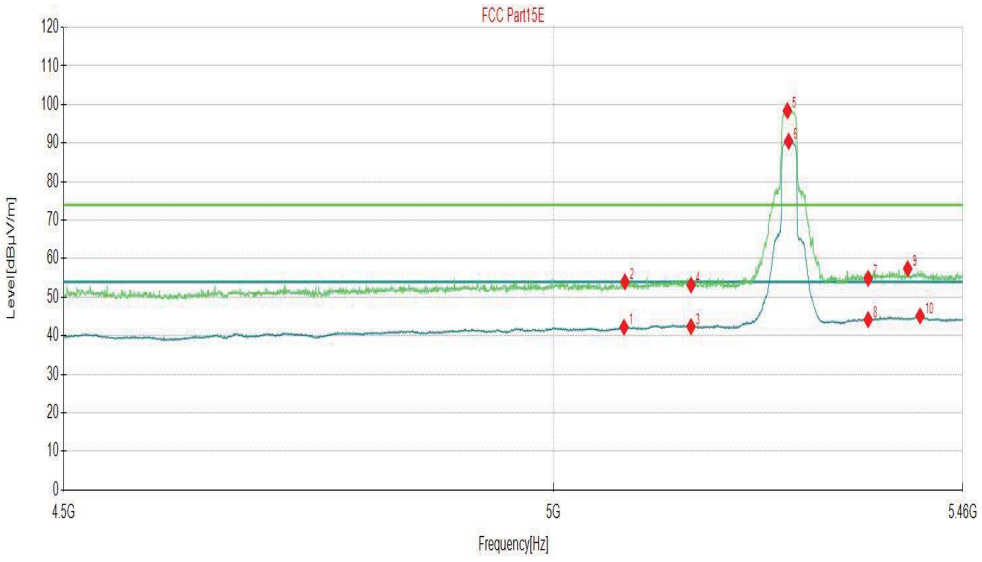
3.1.7 TEST RESULTS - Band 2 (5260-5320MHz):

ABOVE 1GHz DATA

Channel	802.11a CH52	Frequency	5260 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Horizontal

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5076.2881	34.56	7.66	42.22	54.00	11.78	235	87	AV
2	5077.2486	46.30	7.70	54.00	74.00	20.00	170	0	PK
3	5150.0000	34.34	8.03	42.37	54.00	11.63	146	184	AV
4	5150.0000	45.14	8.03	53.17	74.00	20.83	262	312	PK
5	5260.8189	89.30	9.11	98.41			274	136	PK
6	5260.2596	81.17	9.27	90.44			301	136	AV
7	5350.0000	44.95	9.96	54.91	74.00	19.09	148	45	PK
8	5350.0000	34.22	9.96	44.18	54.00	9.82	236	223	AV
9	5395.6478	47.36	10.04	57.40	74.00	16.60	121	332	PK
10	5410.0550	34.85	10.29	45.14	54.00	8.86	213	282	AV
11	10520.0000	30.03	14.32	44.35	54.00	9.65	302	86	AV
12	10520.0000	39.93	14.32	54.25	68.20	13.95	277	112	PK
13	15780.0000	17.87	20.63	38.50	54.00	15.50	144	267	AV
14	15780.0000	26.24	20.63	46.87	74.00	27.13	127	267	PK

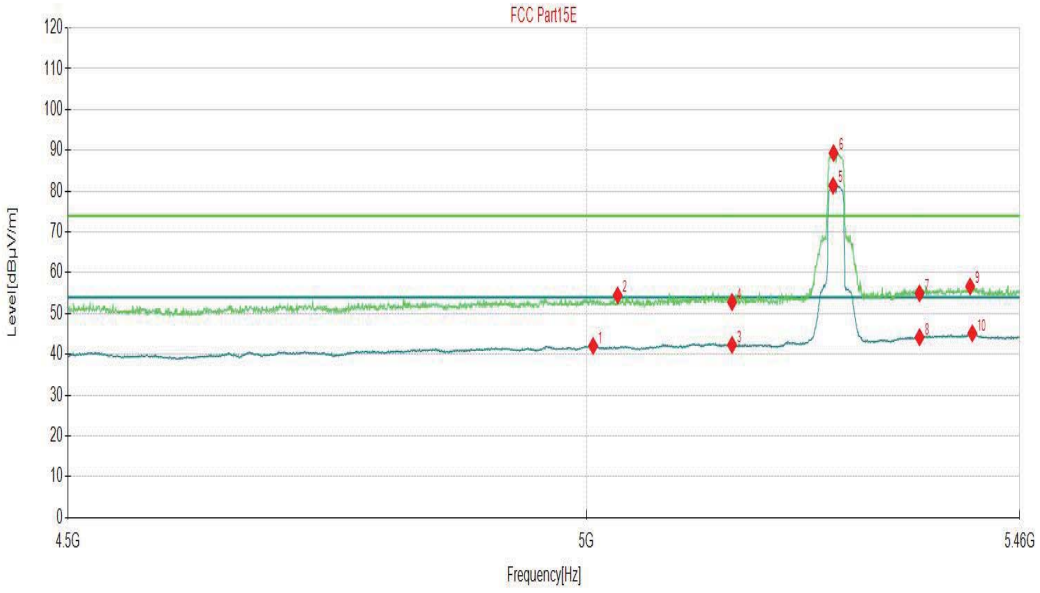


Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

Channel	**802.11a CH52**	**Frequency**	5260 MHz
Frequency Range	Above 1G	**Detector Function**	PK/AV

Vertical

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5006.6533	34.60	7.45	42.05	54.00	11.95	291	18	AV
2	5031.6258	47.09	7.37	54.46	74.00	19.54	243	260	PK
3	5150.0000	34.30	8.03	42.33	54.00	11.67	243	54	AV
4	5150.0000	44.77	8.03	52.80	74.00	21.20	121	77	PK
5	5260.8584	72.34	9.01	81.35			125	356	AV
6	5260.3387	80.27	9.06	89.33			224	356	PK
7	5350.0000	45.00	9.96	54.96	74.00	19.04	310	131	PK
8	5350.0000	34.22	9.96	44.18	54.00	9.82	158	277	AV
9	5405.2526	46.48	10.16	56.64	74.00	17.36	232	320	PK
10	5407.6538	34.92	10.23	45.15	54.00	8.85	301	288	AV
11	10520.0000	38.20	14.32	52.52	68.20	15.68	253	226	PK
12	10520.0000	28.72	14.32	43.04	54.00	10.96	209	226	AV
13	15780.0000	27.86	20.63	48.49	74.00	25.51	114	346	PK
14	15780.0000	17.70	20.63	38.33	54.00	15.67	199	133	AV



Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBµV/m] - Level [dBµV/m]

Channel	802.11a CH 56	Frequency	5300MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Horizontal

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	10600.0000	39.42	14.18	53.60	74.00	20.40	127	102	PK
2	10600.0000	30.90	14.18	45.08	54.00	8.92	288	99	AV
3	15900.0000	23.93	20.99	44.92	74.00	29.08	273	285	PK
4	15900.0000	14.76	20.99	35.75	54.00	18.25	250	265	AV

Vertical

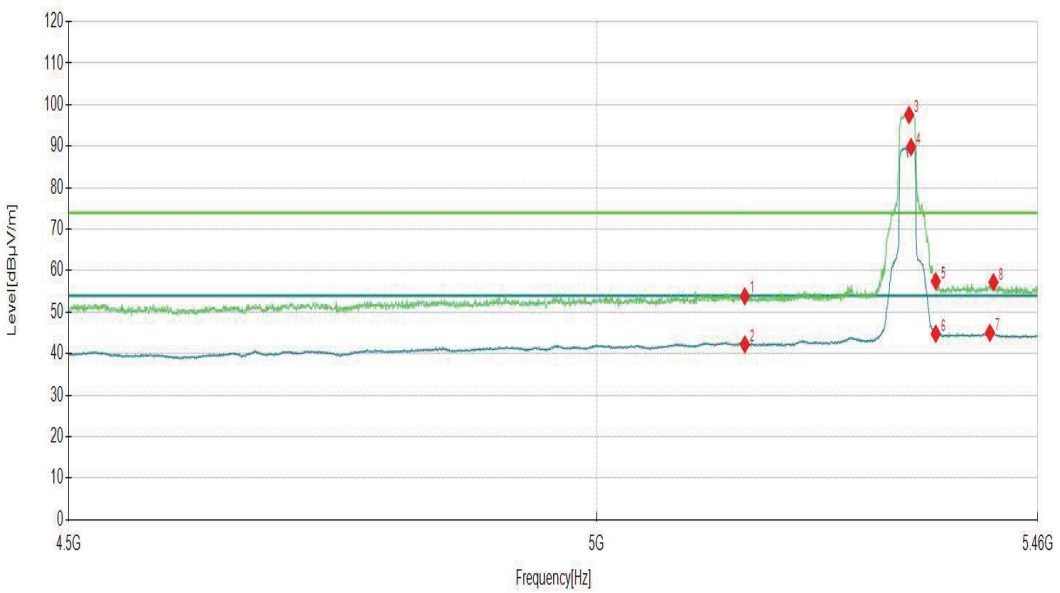
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	10600.0000	36.31	14.18	50.49	74.00	23.51	237	76	PK
2	10600.0000	27.10	14.18	41.28	54.00	12.72	267	76	AV
3	15900.0000	28.21	20.99	49.20	74.00	24.80	233	219	PK
4	15900.0000	17.43	20.99	38.42	54.00	15.58	253	219	AV

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

Channel	**802.11a CH64**	**Frequency**	5320 MHz
Frequency Range	Above 1G	**Detector Function**	PK/AV

Horizontal

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5150.0000	45.80	8.03	53.83	74.00	20.17	150	152	PK
2	5150.0000	34.22	8.03	42.25	54.00	11.75	180	86	AV
3	5321.6908	88.48	9.06	97.54			115	105	PK
4	5321.6118	80.61	9.17	89.78			254	103	AV
5	5350.0000	47.51	9.96	57.47	74.00	16.53	126	0	PK
6	5350.0000	34.84	9.96	44.80	54.00	9.20	204	82	AV
7	5408.1341	34.79	10.24	45.03	54.00	8.97	142	111	AV
8	5411.9760	47.01	10.19	57.20	74.00	16.80	245	213	PK
9	10640.0000	39.22	14.17	53.39	74.00	20.61	181	83	PK
10	10640.0000	28.63	14.17	42.80	54.00	11.20	277	100	AV
11	15960.0000	23.66	21.31	44.97	74.00	29.03	218	267	PK
12	15960.0000	15.39	21.31	36.70	54.00	17.30	295	267	AV

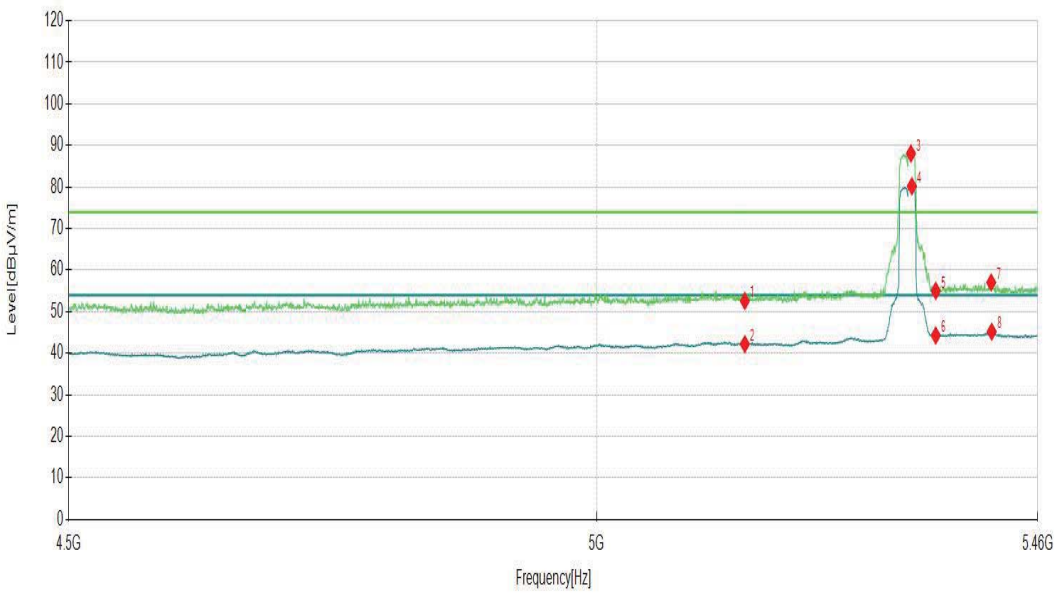


Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBµV/m] - Level [dBµV/m]

Channel	**802.11a CH64**	**Frequency**	5320 MHz
Frequency Range	Above 1G	**Detector Function**	PK/AV

Vertical

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5150.0000	44.57	8.03	52.60	74.00	21.40	239	217	PK
2	5150.0000	34.18	8.03	42.21	54.00	11.79	281	292	AV
3	5323.6118	78.89	9.17	88.06			129	334	PK
4	5324.5723	70.98	9.22	80.20			279	334	AV
5	5350.0000	45.06	9.96	55.02	74.00	18.98	309	122	PK
6	5350.0000	34.32	9.96	44.28	54.00	9.72	177	164	AV
7	5409.5748	46.76	10.28	57.04	74.00	16.96	265	260	PK
8	5410.0550	34.90	10.29	45.19	54.00	8.81	221	249	AV
9	10640.0000	24.92	14.17	39.09	54.00	14.91	267	230	AV
10	10640.0000	36.20	14.17	50.37	74.00	23.63	251	76	PK
11	15960.0000	16.17	21.31	37.48	54.00	16.52	196	336	AV
12	15960.0000	24.97	21.31	46.28	74.00	27.72	206	343	PK



Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBµV/m] - Level [dBµV/m]

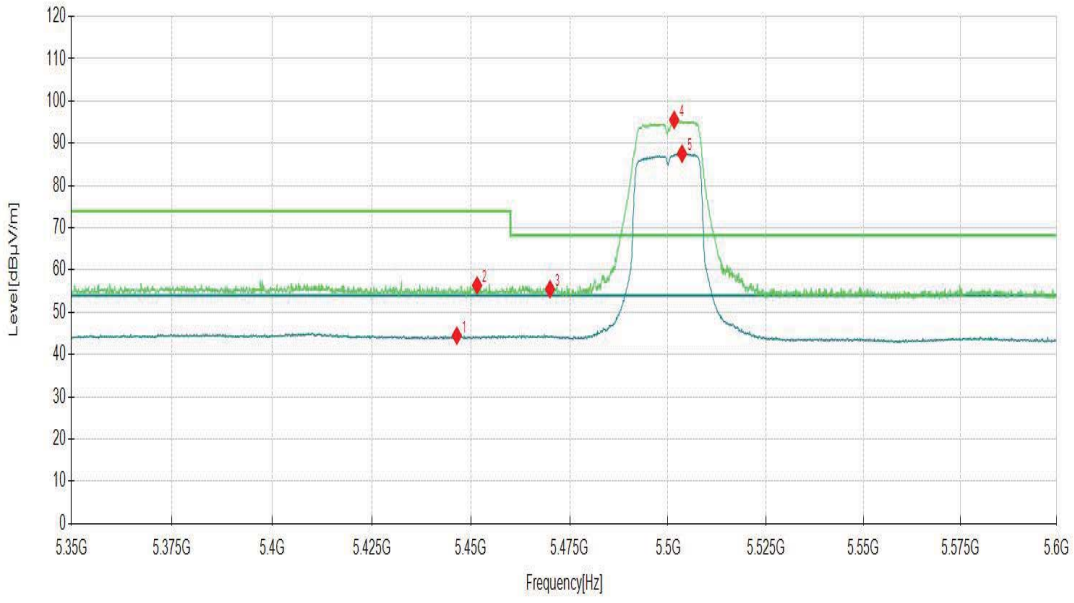
3.1.8 TEST RESULTS - Band 3 (5500-5700MHz):

ABOVE 1GHz DATA

Channel	802.11a CH100	Frequency	5500 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Horizontal

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5446.4232	34.75	9.72	44.47	54.00	9.53	267	358	AV
2	5451.5508	46.60	9.76	56.36	74.00	17.64	300	303	PK
3	5470.0000	45.54	9.94	55.48	68.20	12.72	258	58	PK
4	5501.5758	86.24	9.29	95.53			192	6	PK
5	5503.5768	78.15	9.40	87.55			282	6	AV
6	11000.0000	32.22	14.83	47.05	74.00	26.95	119	89	PK
7	11000.0000	22.86	14.83	37.69	54.00	16.31	124	86	AV
8	16500.0000	21.23	23.16	44.39	68.20	23.81	285	152	PK
9	16500.0000	12.34	23.16	35.50	54.00	18.50	216	1	AV

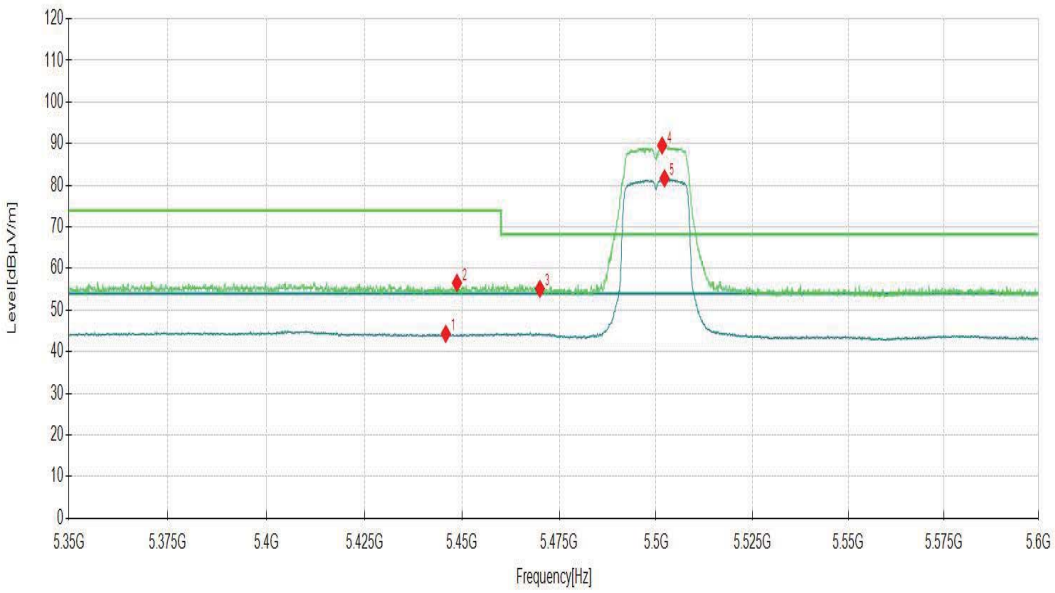


Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBµV/m] - Level [dBµV/m]

Channel	**802.11a CH100**	**Frequency**	5500 MHz
Frequency Range	Above 1G	**Detector Function**	PK/AV

Vertical

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5445.7979	34.58	9.72	44.30	54.00	9.70	248	162	AV
2	5448.6743	46.82	9.71	56.53	74.00	17.47	133	268	PK
3	5470.0000	45.20	9.94	55.14	68.20	13.06	287	162	PK
4	5501.5758	80.29	9.29	89.58			141	336	PK
5	5502.2011	72.35	9.33	81.68			184	336	AV
6	11000.0000	20.28	14.83	35.11	54.00	18.89	178	265	AV
7	11000.0000	28.10	14.83	42.93	74.00	31.07	117	83	PK
8	16500.0000	12.03	23.16	35.19	54.00	18.81	134	321	AV
9	16500.0000	21.13	23.16	44.29	68.20	23.91	134	285	PK



Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBµV/m] - Level [dBµV/m]

Channel	802.11a CH 120	Frequency	5580MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Horizontal

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	11160.0000	29.61	15.23	44.84	74.00	29.16	131	99	PK
2	11160.0000	21.20	15.23	36.43	54.00	17.57	180	96	AV
3	16740.0000	20.87	24.45	45.32	68.20	22.88	300	349	PK
4	16740.0000	11.81	24.45	36.26	54.00	17.74	224	20	AV

Vertical

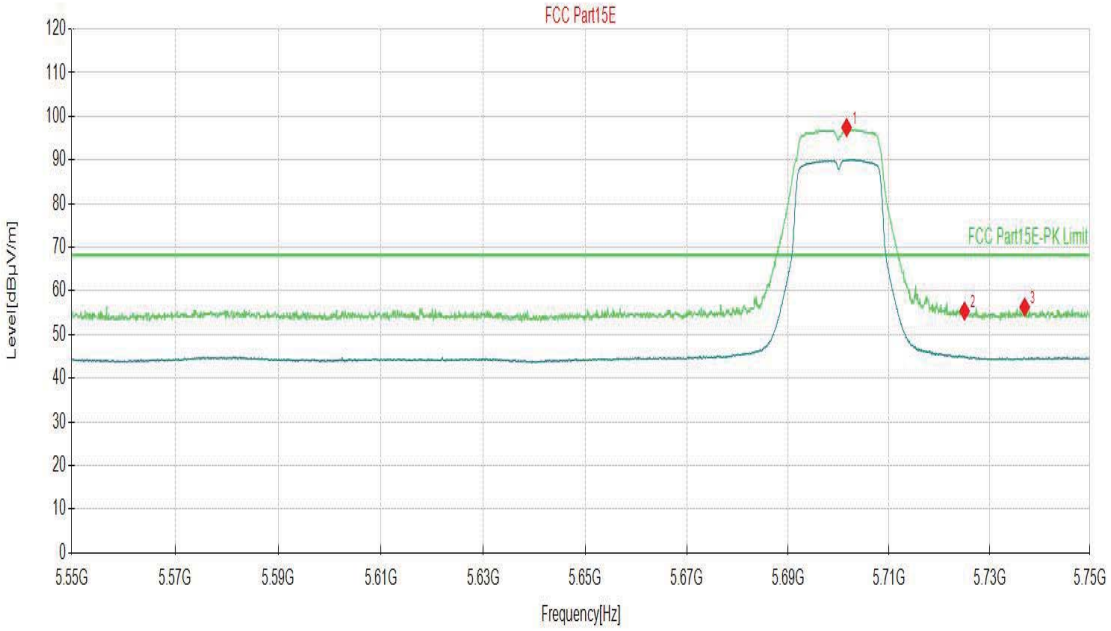
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	11160.0000	28.99	15.23	44.22	74.00	29.78	217	146	PK
2	11160.0000	18.92	15.23	34.15	54.00	19.85	282	242	AV
3	16740.0000	12.11	24.45	36.56	54.00	17.44	200	162	AV
4	16740.0000	21.94	24.45	46.39	68.20	21.81	248	162	PK

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

Channel	**802.11a CH140**	**Frequency**	5700 MHz
Frequency Range	Above 1G	**Detector Function**	PK/AV

Horizontal

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5701.5758	88.53	8.91	97.44			302	356	PK
2	5725.0000	46.50	8.89	55.39	68.20	12.81	287	6	PK
3	5736.9935	47.44	8.86	56.30	68.20	11.90	302	91	PK
4	11400.0000	20.79	15.09	35.88	54.00	18.12	280	94	AV
5	11400.0000	29.82	15.09	44.91	74.00	29.09	301	100	PK
6	17100.0000	10.77	25.93	36.70	54.00	17.30	144	247	AV
7	17100.0000	20.84	25.93	46.77	68.20	21.43	134	170	PK



Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBµV/m] - Level [dBµV/m]

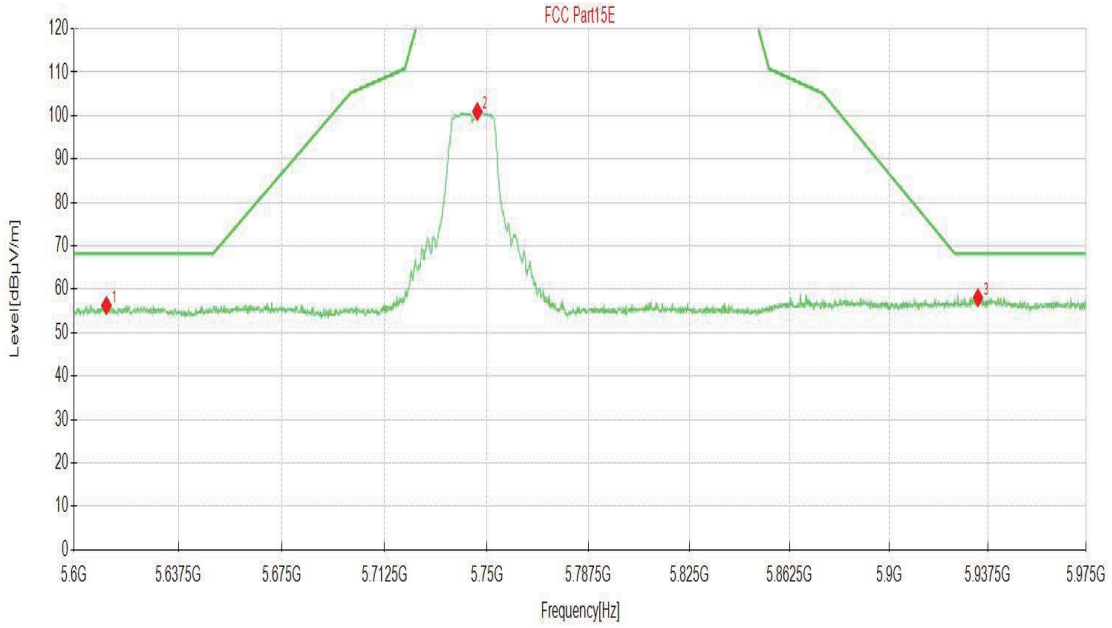
3.1.9 TEST RESULTS - Band 4 (5745-5825MHz):

ABOVE 1GHz DATA

Channel	802.11a CH149	Frequency	5745 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Horizontal

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5611.6308	47.24	9.03	56.27	68.20	11.93	256	232	PK
2	5746.5108	92.01	8.93	100.94			190	5	PK
3	5933.7294	47.43	10.62	58.05	68.20	10.15	139	194	PK
4	11490.0000	29.17	15.04	44.21	74.00	29.79	138	93	PK
5	11490.0000	21.32	15.04	36.36	54.00	17.64	211	103	AV
6	17235.0000	20.25	25.53	45.78	68.20	22.42	194	292	PK
7	17235.0000	14.03	25.53	39.56	54.00	14.44	153	173	AV

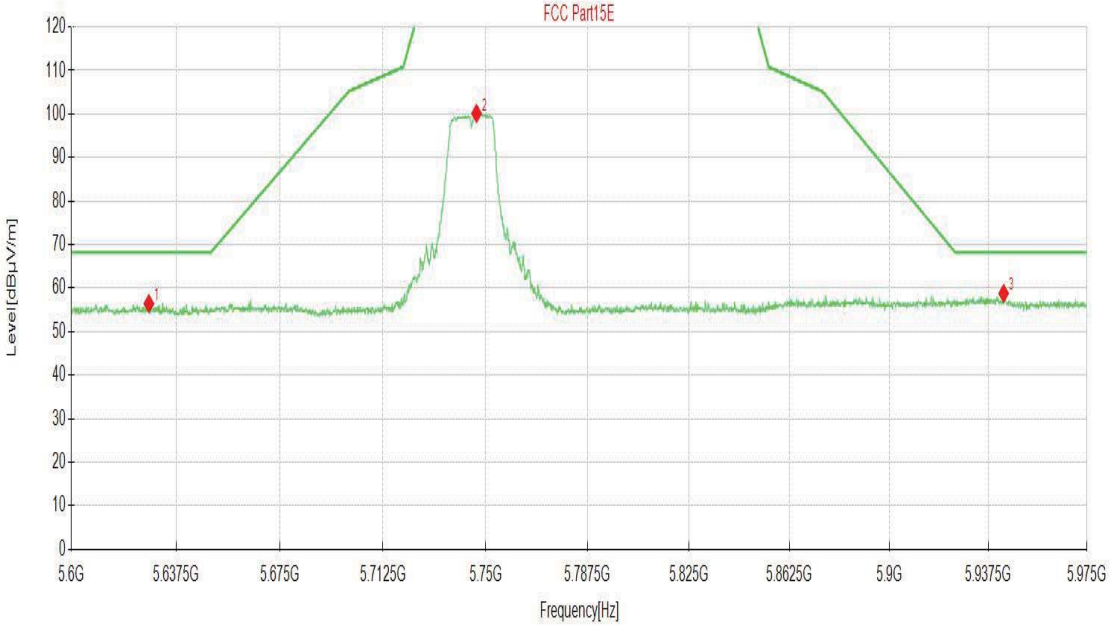


Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

Channel	**802.11a CH149**	**Frequency**	5745 MHz
Frequency Range	Above 1G	**Detector Function**	PK/AV

Vertical

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5627.7639	47.37	9.04	56.41	68.20	11.79	180	129	PK
2	5746.6983	91.19	8.93	100.12			223	164	PK
3	5943.2966	48.33	10.45	58.78	68.20	9.42	303	172	PK
4	11490.0000	26.08	15.04	41.12	74.00	32.88	171	270	PK
5	11490.0000	19.38	15.04	34.42	54.00	19.58	136	280	AV
6	17235.0000	20.78	25.53	46.31	68.20	21.89	305	23	PK
7	17235.0000	13.05	25.53	38.58	54.00	15.42	257	133	AV



Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBµV/m] - Level [dBµV/m]

Channel	802.11a CH 157	Frequency	5785MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Horizontal

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	11570.0000	34.06	15.34	49.40	74.00	24.60	168	99	PK
2	11570.0000	27.42	15.34	42.76	54.00	11.24	252	96	AV
3	17355.0000	20.57	26.30	46.87	68.20	21.33	164	76	PK
4	17355.0000	12.48	26.30	38.78	54.00	15.22	301	322	AV

Vertical

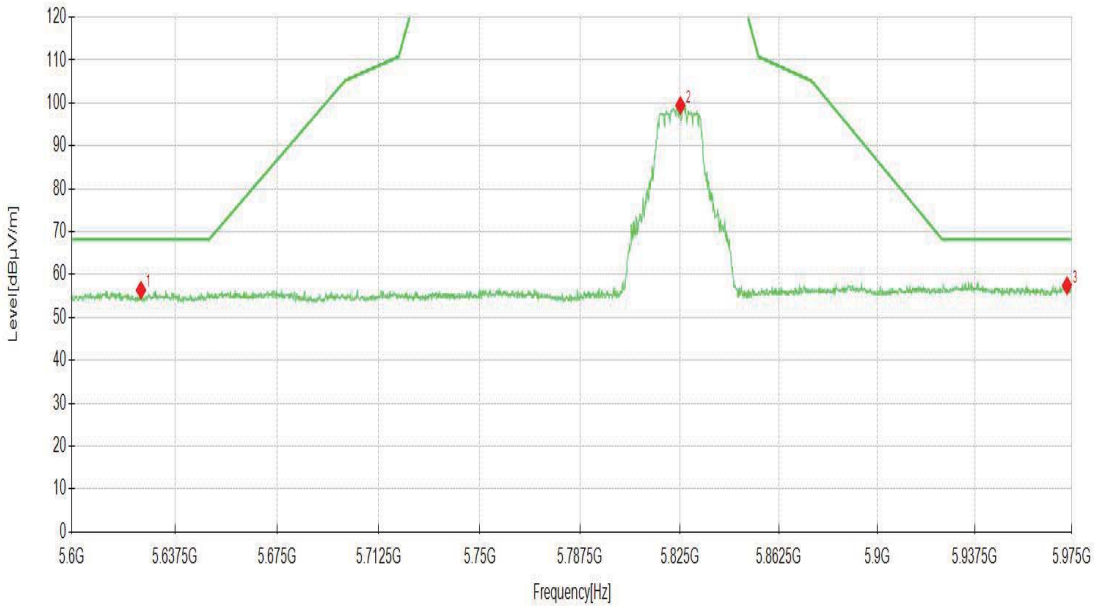
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	11570.0000	30.34	15.34	45.68	74.00	28.32	203	3	PK
2	11570.0000	23.40	15.34	38.74	54.00	15.26	251	1	AV
3	17355.0000	20.34	26.30	46.64	68.20	21.56	263	313	PK
4	17355.0000	12.15	26.30	38.45	54.00	15.55	179	330	AV

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

Channel	802.11a CH165	Frequency	5825 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Horizontal

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5625.1376	47.35	9.02	56.37	68.20	11.83	306	9	PK
2	5825.3002	90.64	8.79	99.43			221	239	PK
3	5973.1241	47.43	10.00	57.43	68.20	10.77	163	168	PK
4	11650.0000	25.27	15.21	40.48	74.00	33.52	178	188	PK
5	11650.0000	18.26	15.21	33.47	54.00	20.53	144	351	AV
6	17475.0000	19.31	26.05	45.36	68.20	22.84	130	357	PK
7	17475.0000	10.96	26.05	37.01	54.00	16.99	132	202	AV

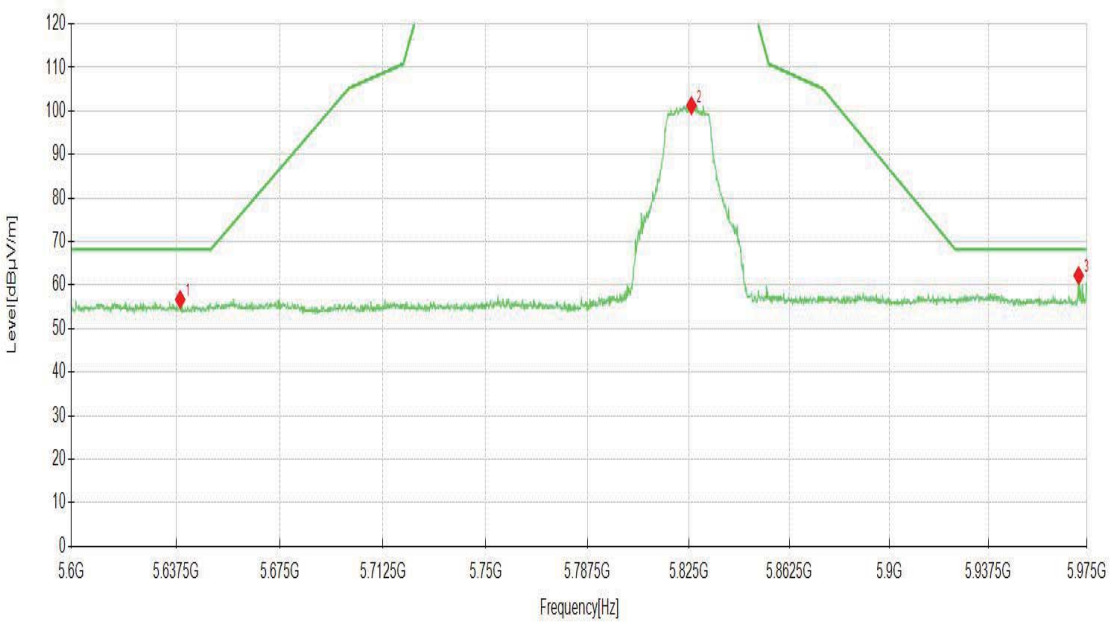


Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBµV/m] - Level [dBµV/m]

Channel	**802.11a CH165**	**Frequency**	5825 MHz
Frequency Range	Above 1G	**Detector Function**	PK/AV

Vertical

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5639.0195	48.21	8.49	56.70	68.20	11.50	192	194	PK
2	5826.0505	92.46	8.78	101.24			152	296	PK
3	5971.8109	52.18	10.01	62.19	68.20	6.01	123	264	PK
4	11650.0000	24.62	15.21	39.83	74.00	34.17	267	33	PK
5	11650.0000	18.49	15.21	33.70	54.00	20.30	205	105	AV
6	17475.0000	18.30	26.05	44.35	68.20	23.85	170	13	PK
7	17475.0000	11.44	26.05	37.49	54.00	16.51	182	252	AV



Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBµV/m] - Level [dBµV/m]

3.2 CONDUCTED EMISSION MEASUREMENT

3.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBμV)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

NOTE: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

3.2.2 TEST PROCEDURES

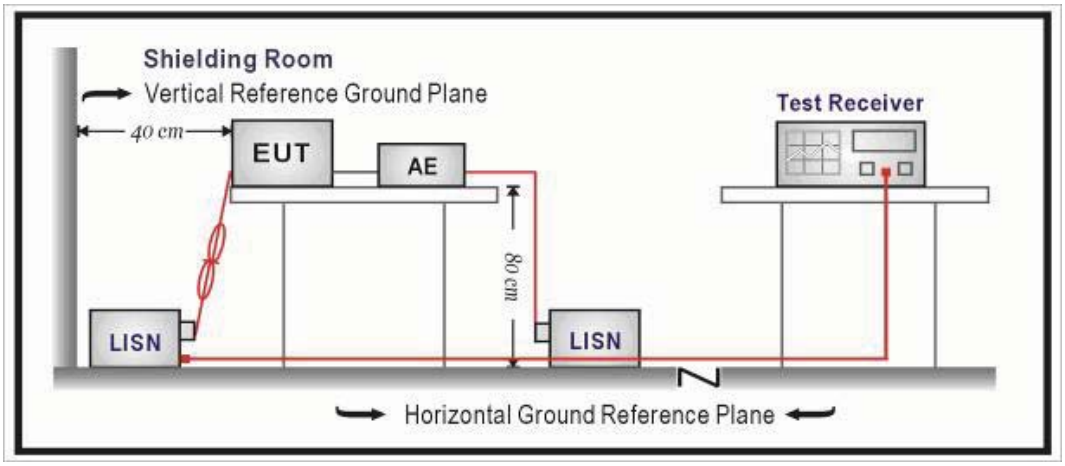
a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.

b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) were not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

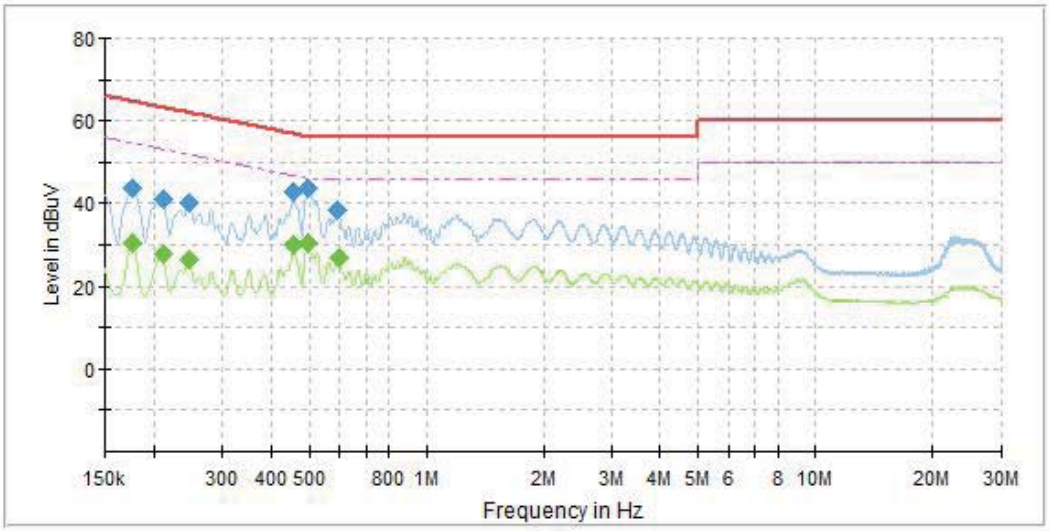
3.2.3 TEST SETUP



NOTE: For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.2.4 TEST RESULTS

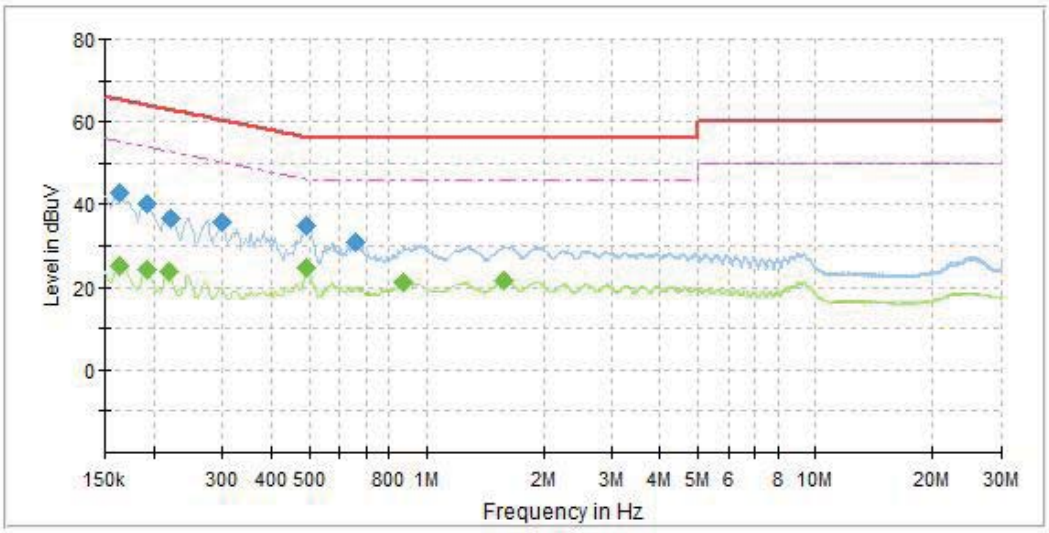
Test Mode	5G WIFI Link		
PHASE	Line (L)	Frequency Range	150KHz ~ 30MHz



NO	Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr.Factor (dB)
1	0.177	---	30.3	54.6	24.4	L1	19.5
2	0.177	43.8	---	64.6	20.8	L1	19.5
3	0.211	41.2	---	63.2	21.9	L1	19.5
4	0.211	---	27.9	53.2	25.3	L1	19.5
5	0.247	---	26.6	51.9	25.2	L1	19.5
6	0.247	40.0	---	61.9	21.8	L1	19.5
7	0.456	42.6	---	56.8	14.1	L1	19.5
8	0.456	---	30.1	46.8	16.7	L1	19.5
9	0.494	---	30.5	46.1	15.6	L1	19.5
10	**0.497**	**43.7**	**---**	**56.1**	**12.3**	**L1**	**19.5**
11	0.593	38.6	---	56.0	17.4	L1	19.6
12	0.596	---	26.9	46.0	19.1	L1	19.6

Remark: The emission levels of other frequencies were very low against the limit.

Test Mode	5G WIFI Link		
PHASE	Line (N)	Frequency Range	150KHz ~ 30MHz



NO	Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr.Factor (dB)
1	0.164	---	25.1	55.3	30.1	N	19.5
2	0.164	42.8	---	65.3	22.4	N	19.5
3	0.193	40.0	---	63.9	23.9	N	19.5
4	0.193	---	24.3	53.9	29.6	N	19.5
5	0.220	---	23.8	52.8	29.0	N	19.5
6	0.222	36.8	---	62.7	25.9	N	19.5
7	0.301	35.8	---	60.2	24.5	N	19.6
8	0.492	35.1	---	56.1	21.1	N	19.6
9	0.492	---	24.9	46.1	21.3	N	19.6
10	0.656	30.9	---	56.0	25.1	N	19.6
11	0.875	---	21.1	46.0	24.9	N	19.6
12	1.574	---	21.4	46.0	24.6	N	19.6

Remark: The emission levels of other frequencies were very low against the limit.

3.3 OCCUPIED BANDWIDTH MEASUREMENT

3.3.1 Measurement procedure

The transmitter antenna output was connected to the spectrum analyzer through an attenuator. The resolution bandwidth shall be set to the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth.
below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

3.3.2 TEST SETUP

3.3.3 Test result

Please refer Annex C.

3.4 26DB EMISSION BANDWIDTH

3.4.1 LIMITS OF 26DB EMISSION BANDWIDTH

This section is for reporting purpose only, there is on restriction limit of bandwidth

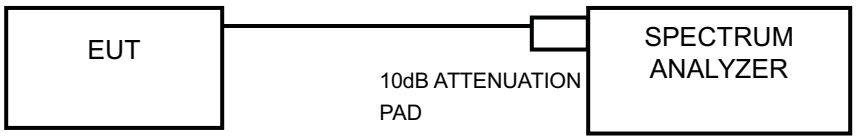
3.4.2 TEST PROCEDURES

FOR 26dB BANDWIDTH

1) Set RBW = approximately 1% of the emission bandwidth.
2) Set the VBW > RBW.
3) Detector = Peak
4) Trace mode = max hold.
5) Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

3.4.3 TEST SETUP

FOR 26dB BANDWIDTH



3.4.4 TEST RESULTS

Refer to Appendix A

3.5 6DB EMISSION BANDWIDTH

3.5.1 LIMITS OF 6DB EMISSION BANDWIDTH

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

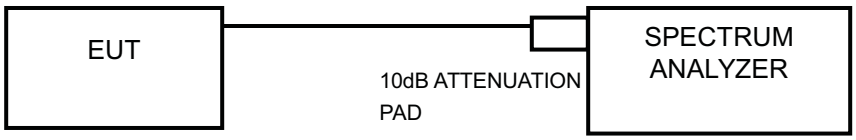
3.5.2 TEST PROCEDURES

FOR 6dB BANDWIDTH

1) Set RBW = 100 kHz.
2) Set the video bandwidth (VBW) ≥ 3 RBW.
3) Detector = Peak.
4) Trace mode = max hold.
5) Sweep = auto couple.
6) Allow the trace to stabilize.
7) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.5.3 TEST SETUP

FOR 6dB BANDWIDTH



3.5.4 TEST RESULTS

Refer to Appendix B

3.6 TRANSMIT POWER MEASUREMENT

3.6.1 LIMITS OF TRANSMIT POWER MEASUREMENT(FCC)

Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p ≦ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	√	Mobile and Portable client device	250mW (24 dBm)
U-NII-2A	√		250mW(24dBm) or 11 dBm+10LogB*
U-NII-2C	√		250mW(24dBm) or 11 dBm+10LogB*
U-NII-3	√		1 Watt (30 dBm)

NOTE: Where B is the 26dB emission bandwidth in MHz.

3.6.2 LIMITS OF TRANSMIT POWER MEASUREMENT(IC)

FREQUENCY BAND	LIMIT
5.150 ~ 5.250GHz	EIRP shall not exceed 200mW or 10+ 10logB, dBm
5.250 ~ 5.350GHz 5.470 ~ 5.600GHz 5.650 ~ 5.725GHz	Conducted output power shall not exceed 250mW or 11+ 10logB, dBm EIRP shall not exceed 1.0W or 17+ 10logB, dBm
5.725 ~ 5.825GHz	Conducted output power shall not exceed 1 W.

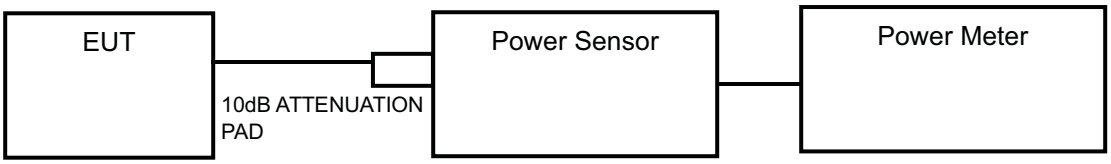
NOTE: Where B is the 99% emission bandwidth in MHz

3.6.3 TEST PROCEDURES

FOR AVERAGE POWER MEASUREMENT

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

3.6.4 TEST SETUP



3.6.5 TEST RESULTS

Refer to Appendix D

3.7 POWER SPECTRAL DENSITY MEASUREMENT

3.7.1 LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT(FCC)

Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	17dBm/ MHz
		Fixed point-to-point Access Point	
		Indoor Access Point	
	√	Mobile and Portable client device	11dBm/ MHz
U-NII-2A	√		11dBm/ MHz
U-NII-2C	√		11dBm/ MHz
U-NII-3	√		30dBm/ 500kHz

3.7.2 LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT(IC)

FREQUENCY BAND	LIMIT (dBm)
5.15 ~ 5.25GHz	EIRP spectral density shall not exceed 10 dBm in any 1.0 MHz band.
5.25 ~ 5.35GHz and 5.470 ~ 5.725GHz	Power spectral density shall not exceed 11 dBm in any 1.0 MHz band.
5.725~5825GHz	Power spectral density shall not exceed 30 dBm in any 500 kHz band.

3.7.3 TEST PROCEDURE

For U-NII-1, U-NII-2A, U-NII-2C band:

Using method SA-2

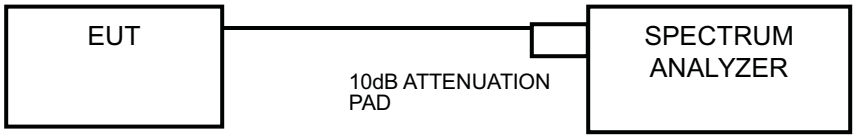
1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
2) Set RBW = 1MHz, Set VBW =3 MHz, Detector = AV
3) Set Channel power measure = 1MHz
4) Sweep time = auto, trigger set to “free run”.
5) Trace average at least 100 traces in power averaging mode.
6) Record the max value and add 10 log (1/duty cycle)

For U-NII-3 band:

Using method SA-2

1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
2) Set RBW = 300 kHz, Set VBW =1 MHz, Detector = AV
3) Set Channel power measure = 1MHz
4) Sweep time = auto, trigger set to “free run”.
5) Trace average at least 100 traces in power averaging mode.
6) Record the max value and add 10 log (1/duty cycle)

3.7.4 TEST SETUP



3.7.5 TEST RESULT

Refer to Appendix E

3.8 FREQUENCY STABILITY

3.8.1 LIMITS OF FREQUENCY STABILITY

The frequency of the carrier signal shall be maintained within band of operation.

3.8.2 TEST PROCEDURES

a. The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.

b. Turn the EUT on and couple its output to a spectrum analyzer.

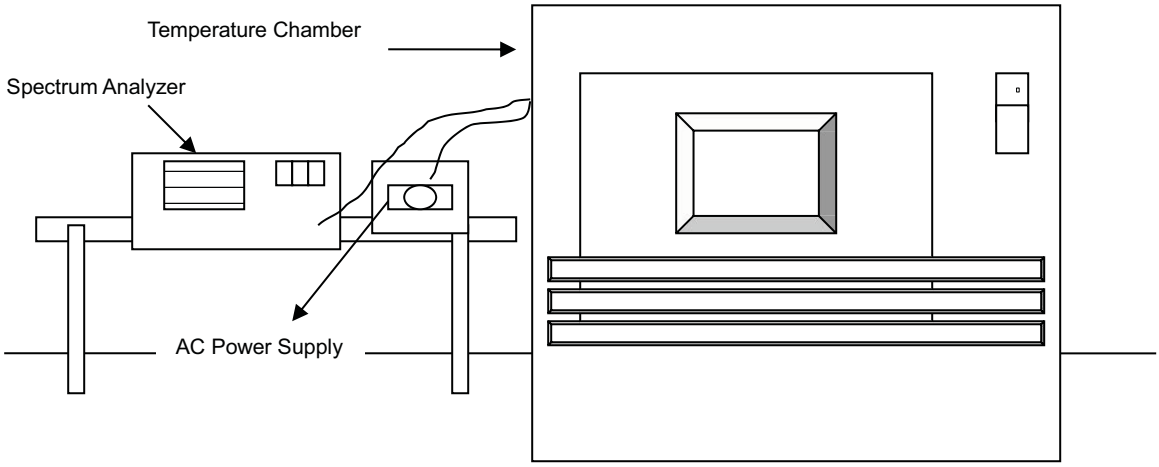
c. Turn the EUT off and set the chamber to the highest temperature specified.

d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.

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.

3.8.3 TEST SETUP



3.8.4 TEST RESULTS

Refer to Appendix F

4 PHOTOGRAPHS OF TEST SETUP

Please refer to the attached file (Test Setup Photo).

5 PHOTOGRAPHS OF THE EUT

Please refer to the attached file (External Photos report and Internal Photos).

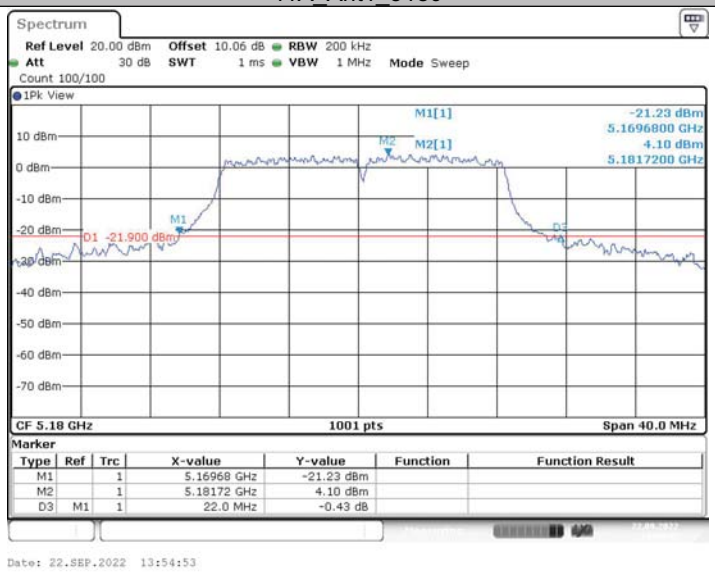
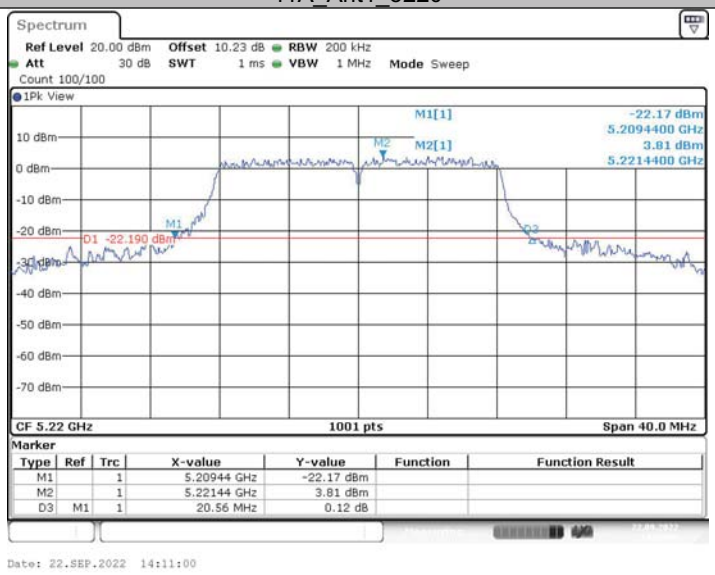
6 Appendix

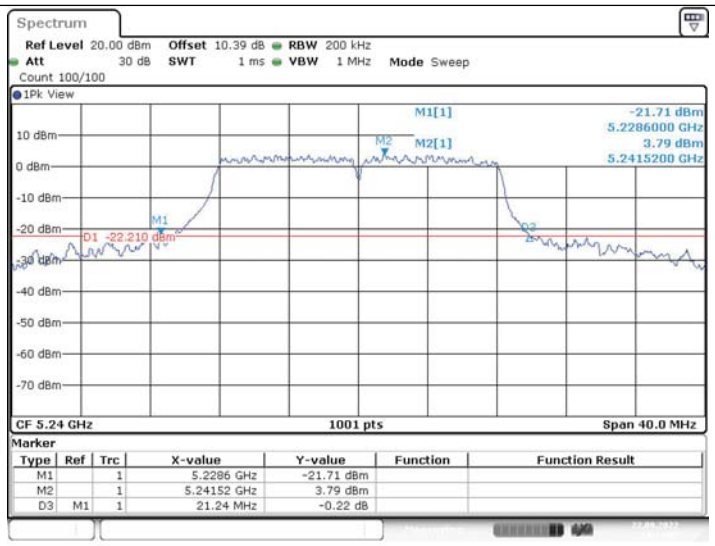
6.1 Appendix A: 26DB EMISSION BANDWIDTH

6.1.1 Test Result

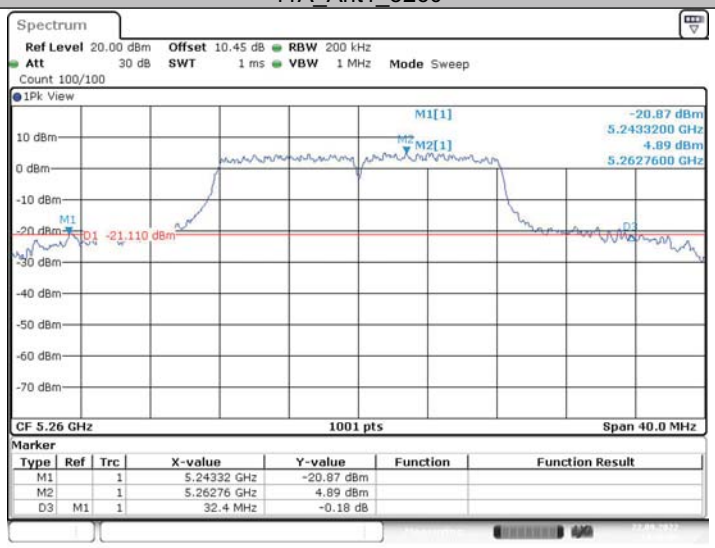
TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	22.00	5169.68	5191.68	---	---
		5220	20.56	5209.44	5230.00	---	---
		5240	21.24	5228.60	5249.84	---	---
		5260	32.40	5243.32	5275.72	---	---
		5300	36.64	5281.32	5317.96	---	---
		5320	33.16	5303.24	5336.40	---	---
		5500	20.80	5489.68	5510.48	---	---
		5580	20.60	5569.40	5590.00	---	---
		5700	20.32	5689.48	5709.80	---	---
		5745	21.16	5734.32	5755.48	---	---
		5785	21.76	5774.44	5796.20	---	---
		5825	23.16	5814.40	5837.56	---	---

6.1.2 Test Graphs

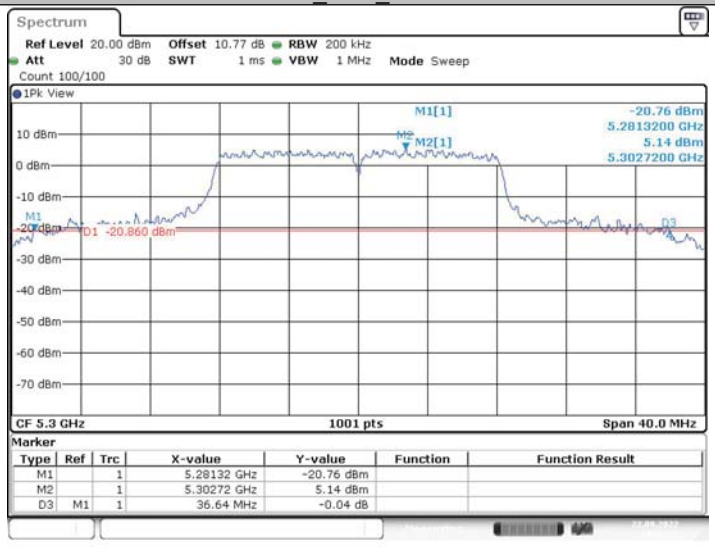
11A_Ant1_5180

11A_Ant1_5220

11A_Ant1_5240



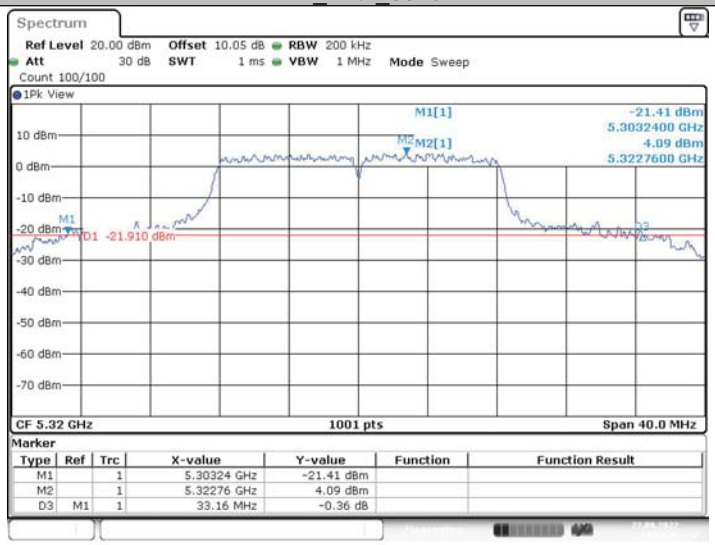
11A_Ant1_5260



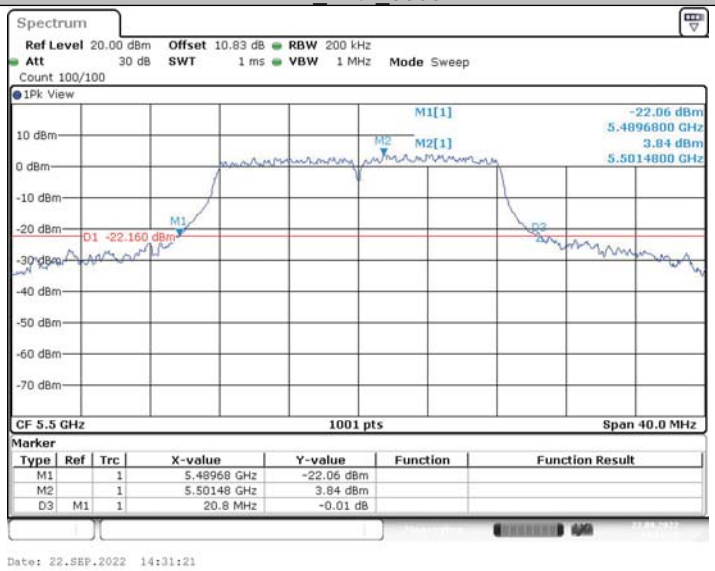
11A_Ant1_5300



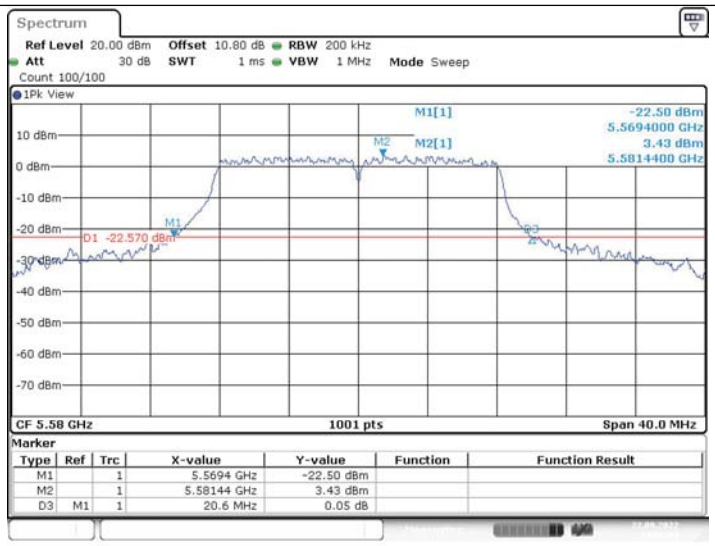
11A_Ant1_5320



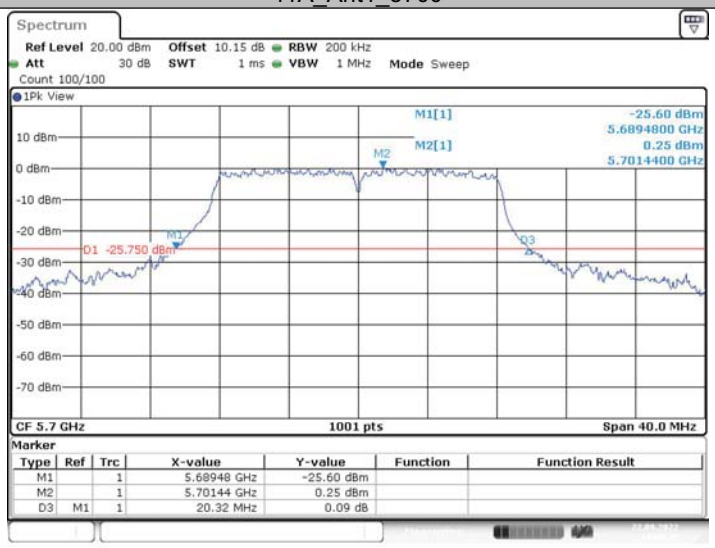
11A_Ant1_5500



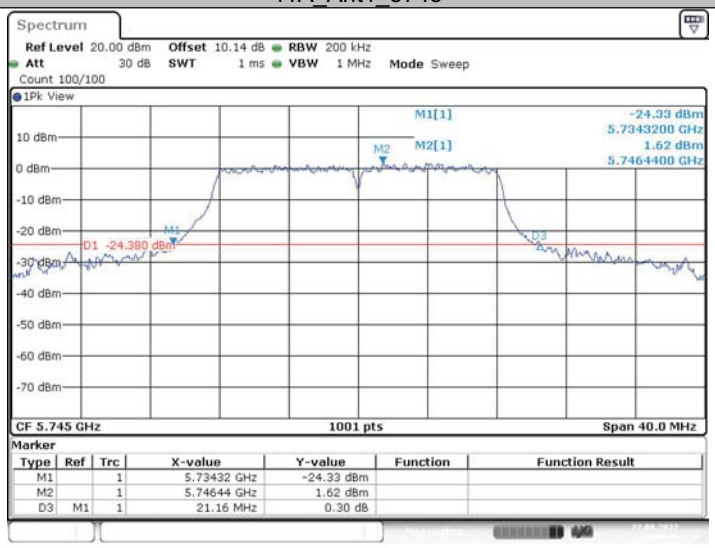
11A_Ant1_5580



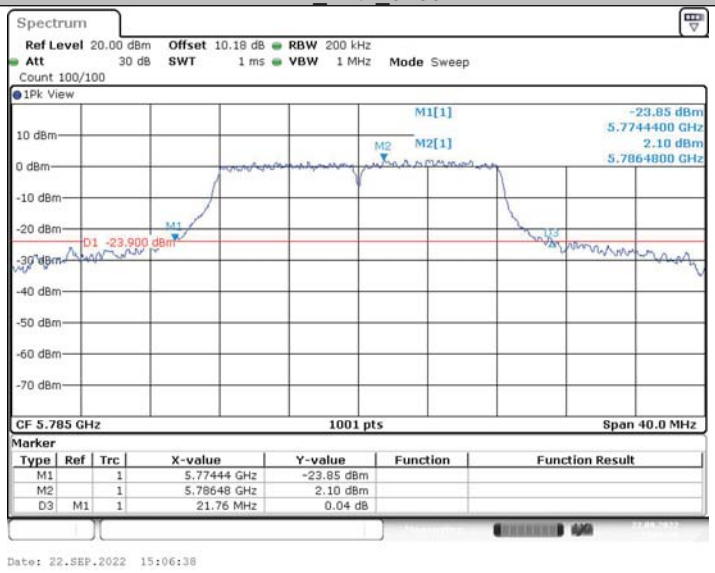
11A_Ant1_5700



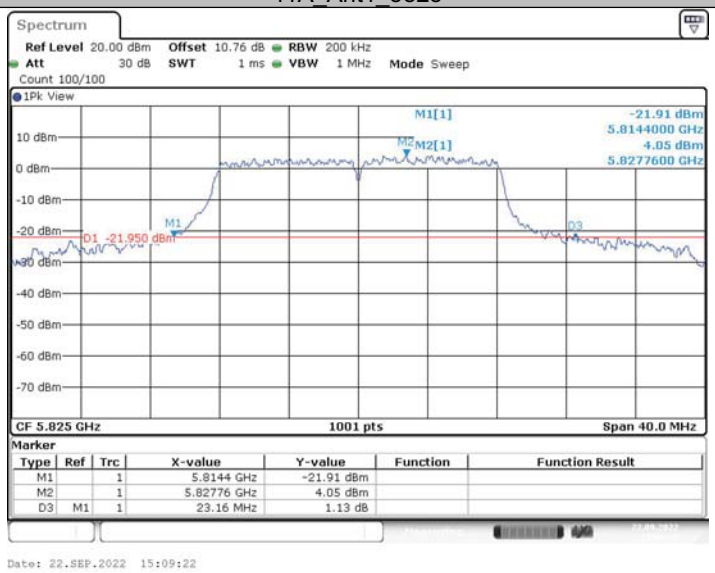
11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



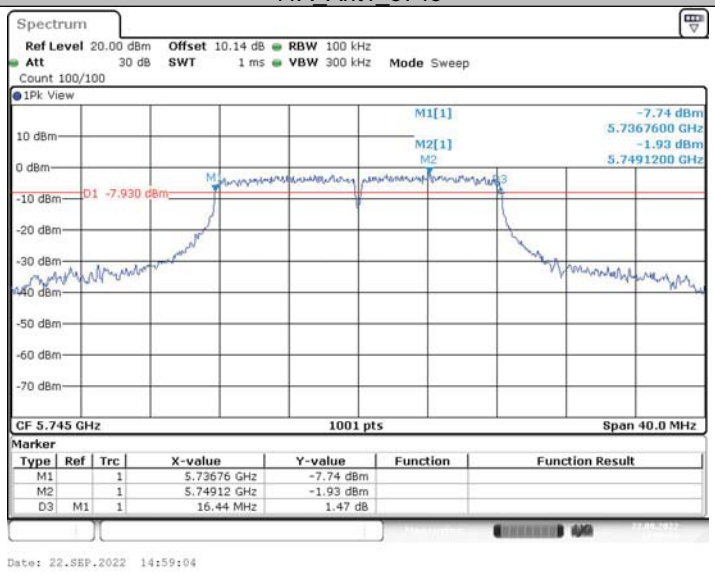
6.2 Appendix B: 6DB EMISSION BANDWIDTH

6.2.1 Test Result

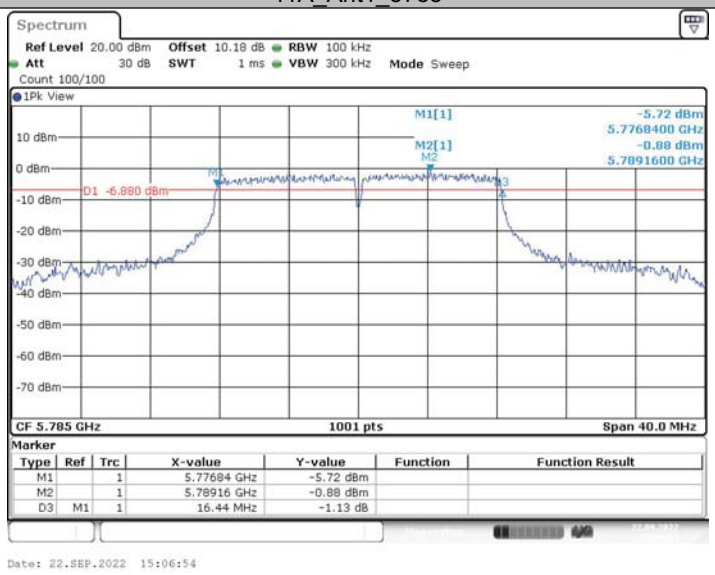
TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.44	5736.76	5753.20	0.5	PASS
		5785	16.44	5776.84	5793.28	0.5	PASS
		5825	16.44	5816.80	5833.24	0.5	PASS

6.2.2 Test Graphs

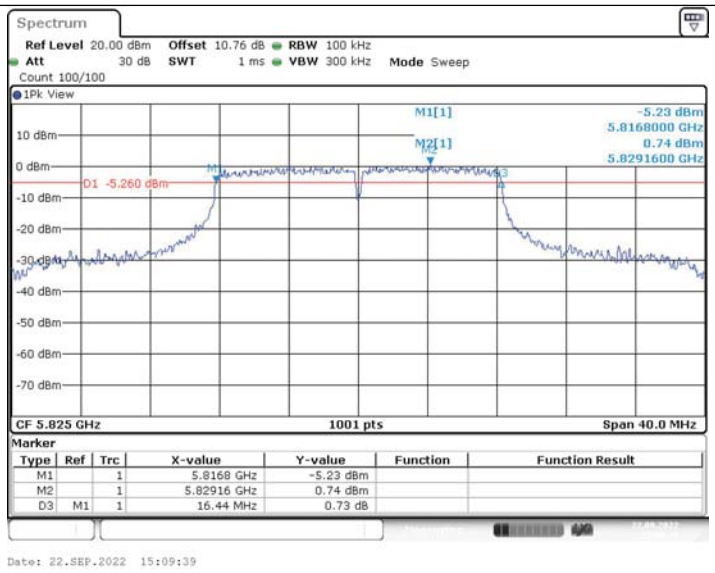
11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825


Spectrum
Ref Level 20.00 dBm Offset 10.76 dB RBW 100 kHz
Att 30 dB SWT 1 ms VBW 300 kHz Mode Sweep
Count 100/100
1Pk View
M1[1] -5.23 dBm
5.8168000 GHz
M2[1] 0.74 dBm
5.8291600 GHz
D1 -5.260 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
CF 5.825 GHz
1001 pts
Span 40.0 MHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 5.8168 GHz -5.23 dBm
M2 1 5.82916 GHz 0.74 dBm
D3 M1 1 16.44 MHz 0.73 dB
Date: 22.SEP.2022 15:09:39

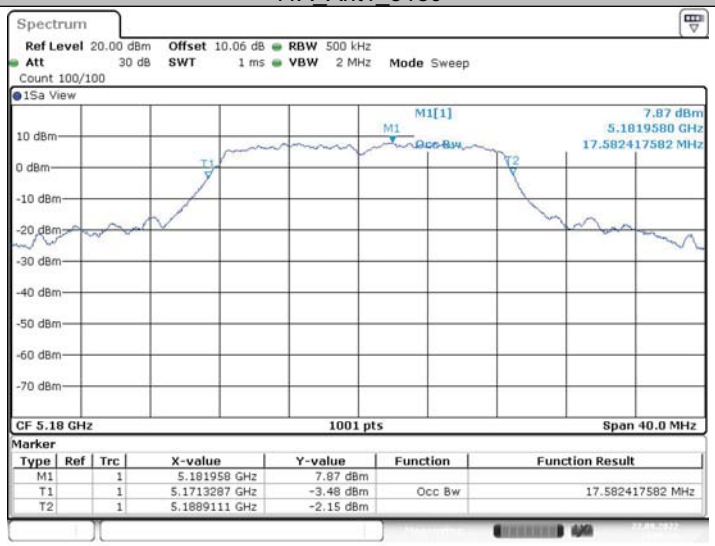
6.3 Appendix C: Occupied channel bandwidth

6.3.1 Test Result

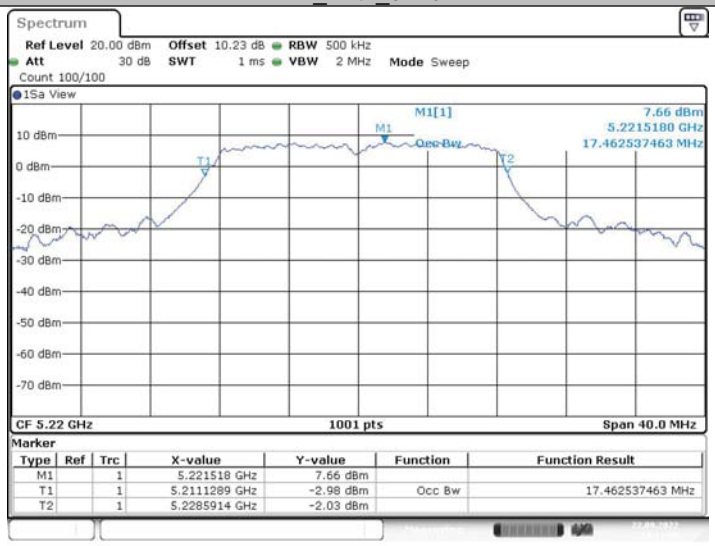
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.582	5171.329	5188.911	---	---
		5220	17.463	5211.129	5228.591	---	---
		5240	17.502	5231.049	5248.551	---	---
		5260	17.862	5251.009	5268.871	---	---
		5300	18.701	5290.490	5309.191	---	---
		5320	18.102	5310.849	5328.951	---	---
		5500	17.463	5491.209	5508.671	---	---
		5580	17.463	5571.049	5588.511	---	---
		5700	17.383	5691.089	5708.472	---	---
		5745	17.542	5736.089	5753.631	---	---
		5785	17.662	5776.089	5793.751	---	---
		5825	17.702	5816.089	5833.791	---	---

6.3.2 Test Graphs

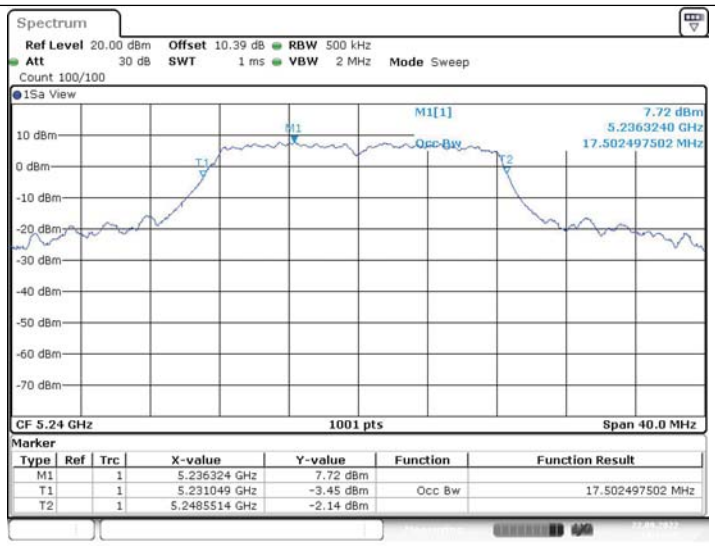
11A_Ant1_5180



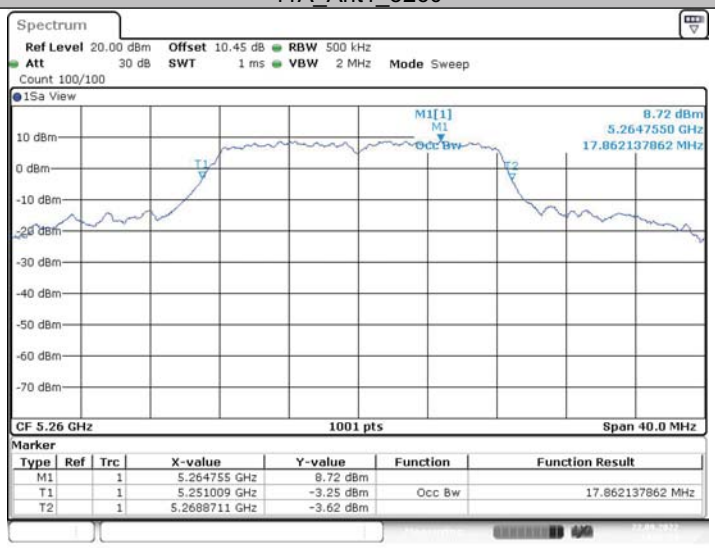
11A_Ant1_5220



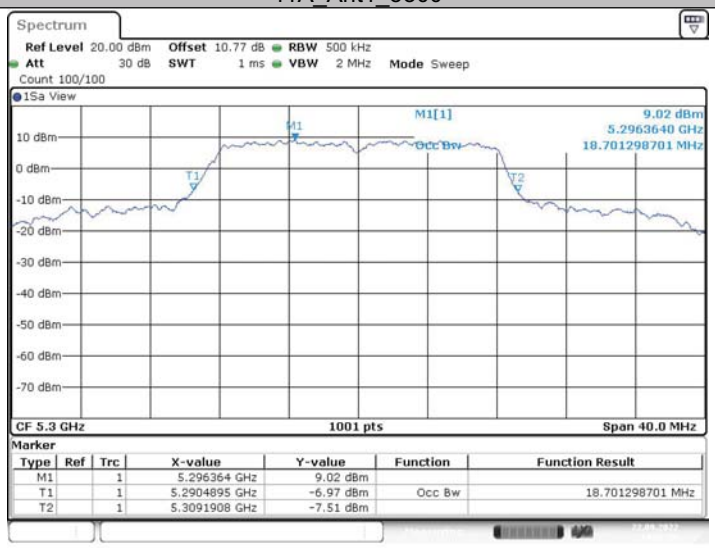
11A_Ant1_5240



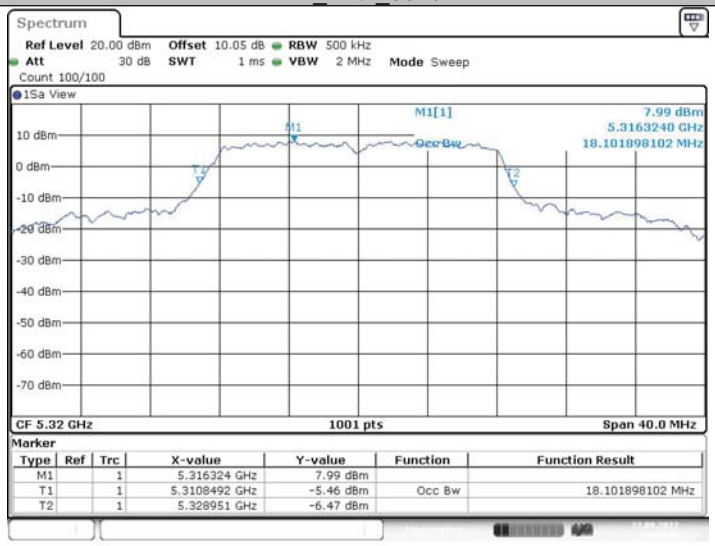
11A_Ant1_5260



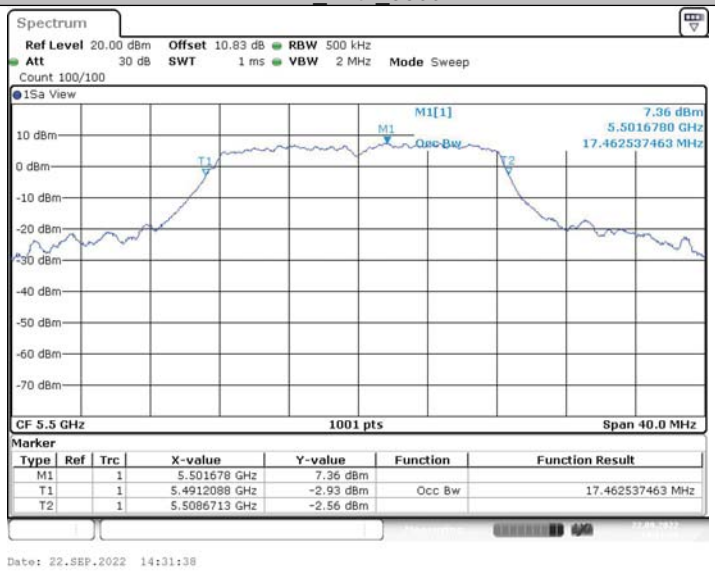
11A_Ant1_5300



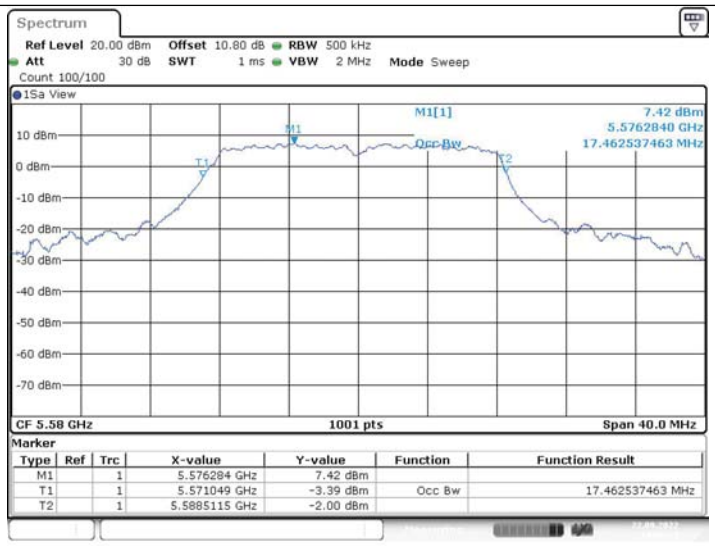
11A_Ant1_5320



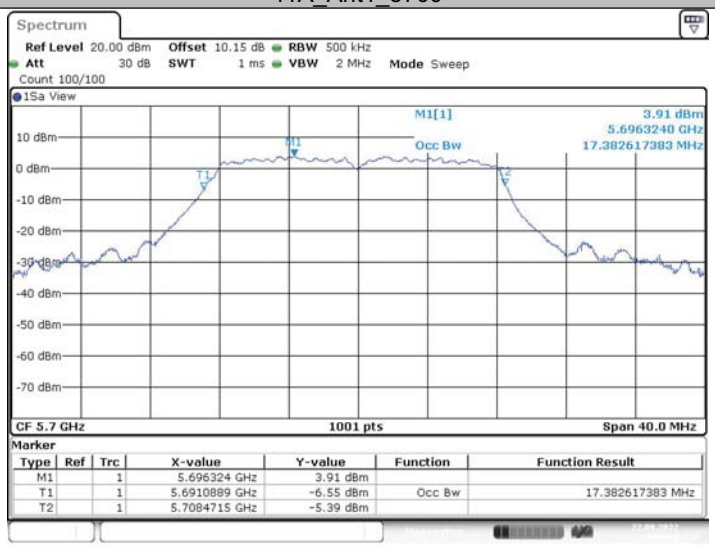
11A_Ant1_5500



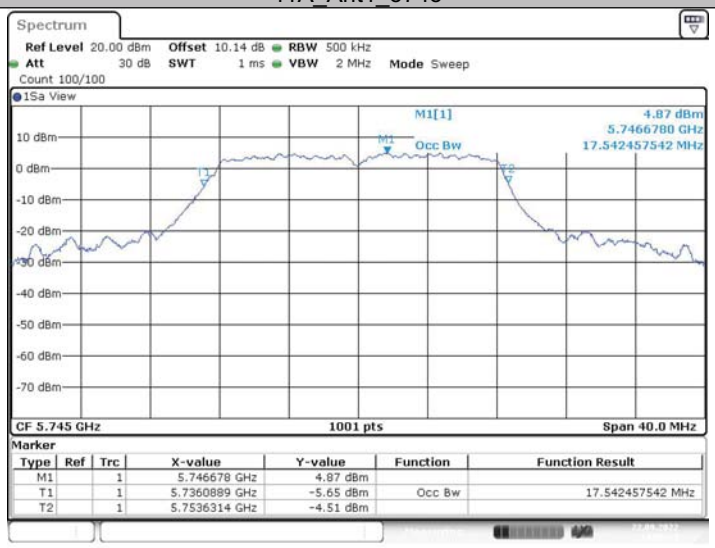
11A_Ant1_5580



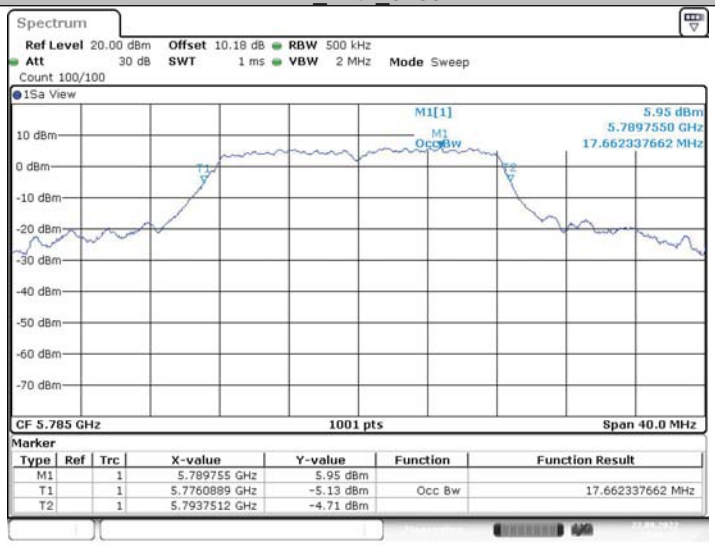
11A_Ant1_5700



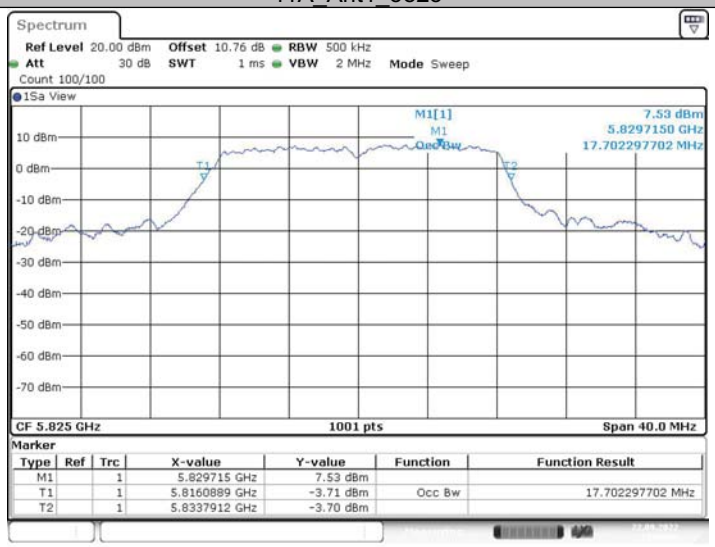
11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



6.4 Appendix D: TRANSMIT POWER MEASUREMENT

6.4.1 Test Result

Test Mode	Antenna	Frequency [MHz]	Channel Powert [dBm]	FCC Limit [dBm]	IC Limit [dBm]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11A	Ant1	5180	10.25	≤23.98	---	11.30	≤22.45	PASS
		5220	10.14	≤23.98	---	11.19	≤22.45	PASS
		5240	10.12	≤23.98	---	11.17	≤22.45	PASS
		5260	10.79	≤23.98	≤22.72	11.84	≤29.72	PASS
		5300	10.94	≤23.98	≤22.72	11.99	≤29.72	PASS
		5320	10.06	≤23.98	≤22.72	11.11	≤29.72	PASS
		5500	9.68	≤23.98	≤22.72	10.73	≤29.72	PASS
		5580	10.01	≤23.98	≤22.72	11.06	≤29.72	PASS
		5700	9.21	≤23.98	≤22.72	10.26	≤29.72	PASS
		5745	9.10	≤30.00	≤30.00	10.15	---	PASS
		5785	9.44	≤30.00	≤30.00	10.49	---	PASS
		5825	10.04	≤30.00	≤30.00	11.09	---	PASS

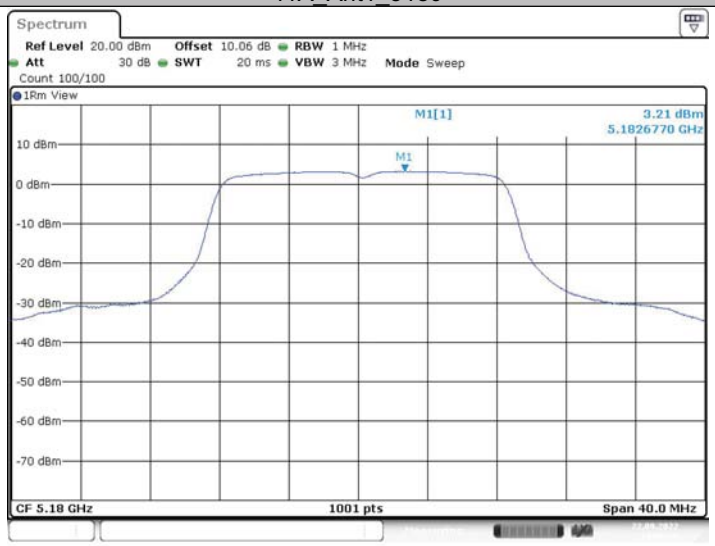
6.5 Appendix E: POWER SPECTRAL DENSITY MEASUREMENT

6.5.1 Test Result

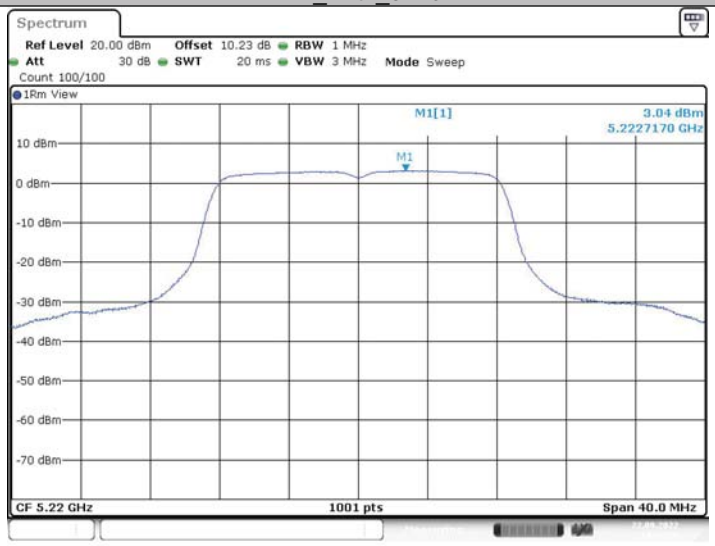
TestMode	Antenna	Frequency[MHz]	PSD [dBm/MHz]	PSD Limit [dBm/MHz]	EIRP.PSD [dBm/MHz]	EIRP.PSD Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-1.08	≤11.00	-0.03	≤10.00	PASS
		5220	-1.25	≤11.00	-0.20	≤10.00	PASS
		5240	-1.17	≤11.00	-0.12	≤10.00	PASS
		5260	-0.53	≤11.00	0.52	---	PASS
		5300	-0.59	≤11.00	0.46	---	PASS
		5320	-1.36	≤11.00	-0.31	---	PASS
		5500	-1.61	≤11.00	-0.56	---	PASS
		5580	-1.25	≤11.00	-0.20	---	PASS
		5700	-5.13	≤11.00	-4.08	---	PASS
		5745	-5.44	≤30.00	-4.39	---	PASS
		5785	-5.62	≤30.00	-4.57	---	PASS
		5825	-4.13	≤30.00	-3.08	---	PASS

6.5.2 Test Graphs

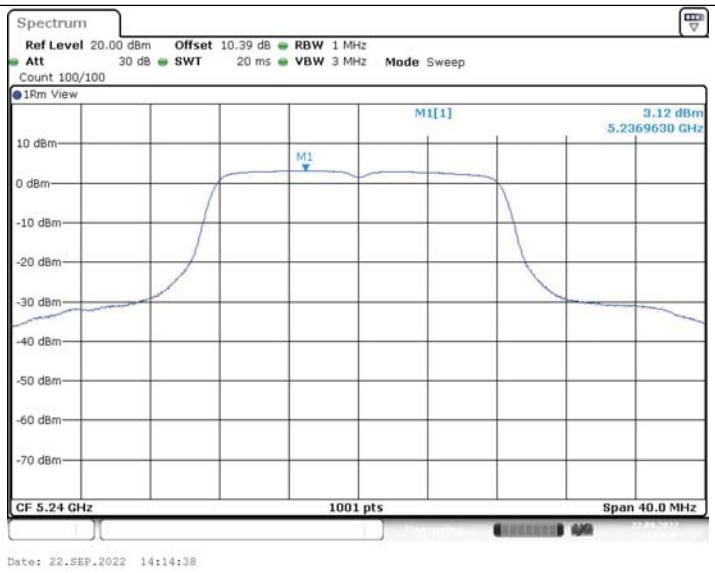
11A_Ant1_5180



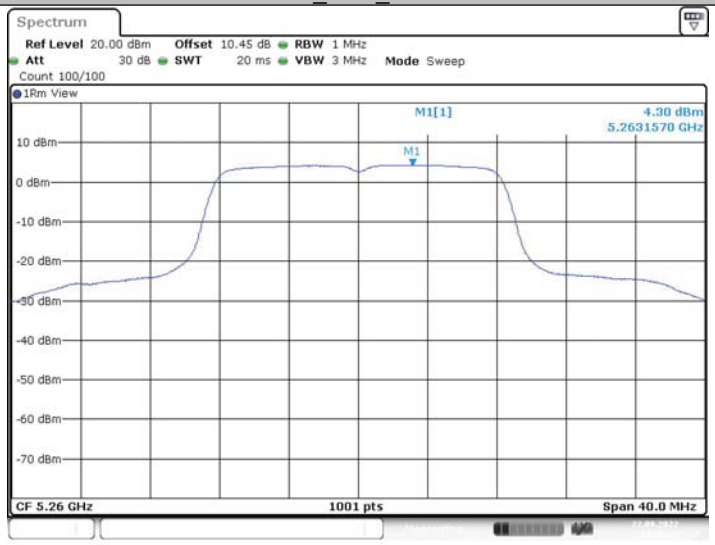
11A_Ant1_5220



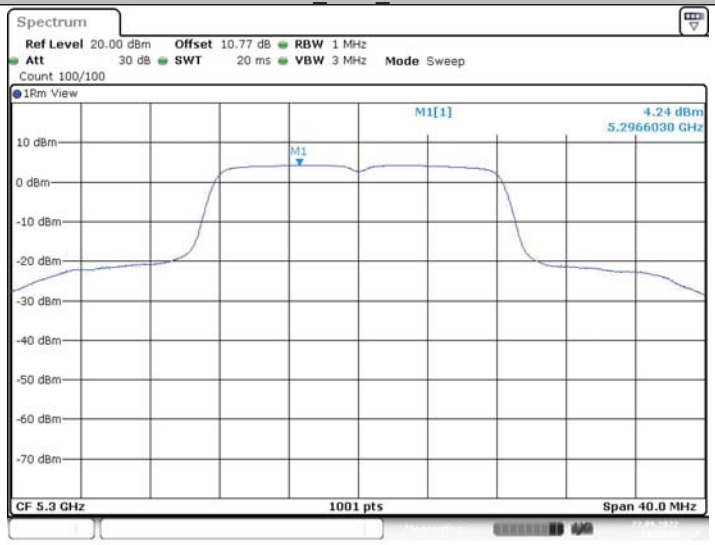
11A_Ant1_5240



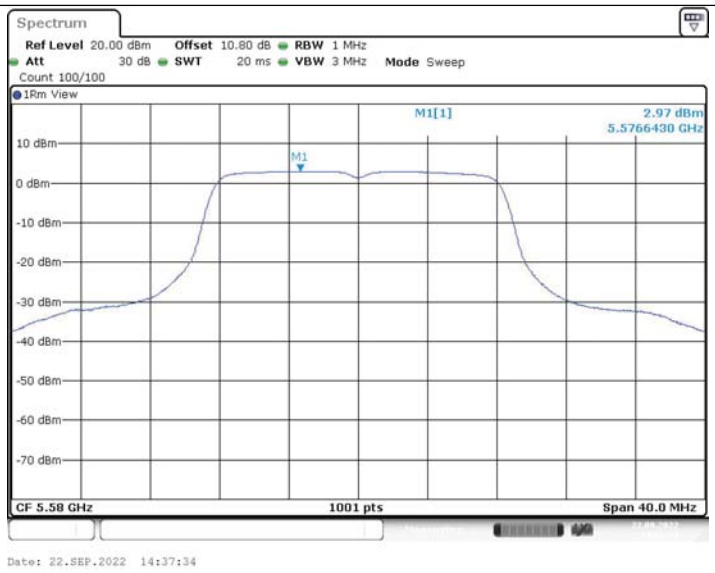
11A_Ant1_5260



11A_Ant1_5300

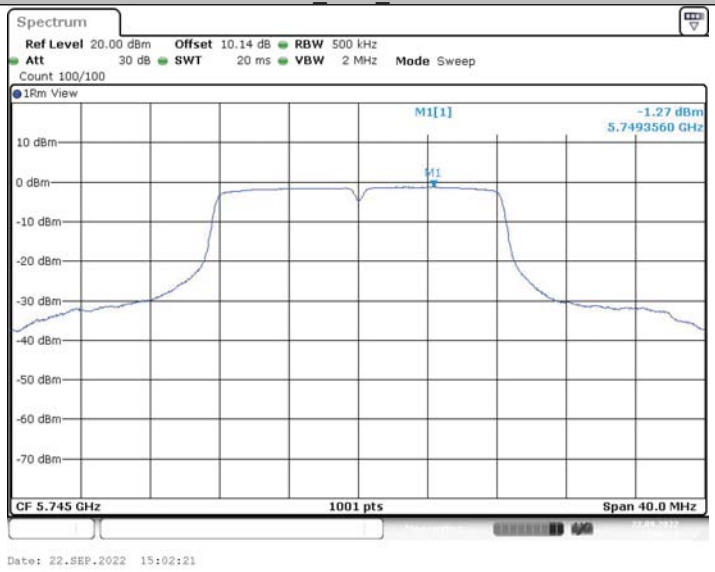


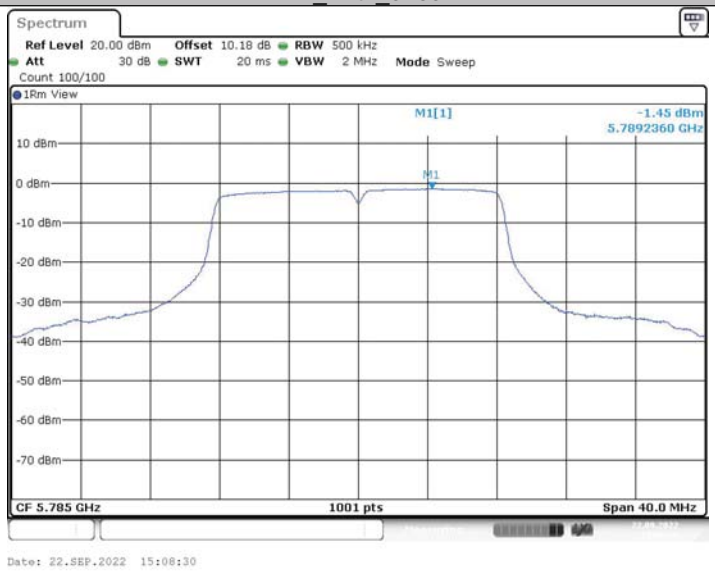
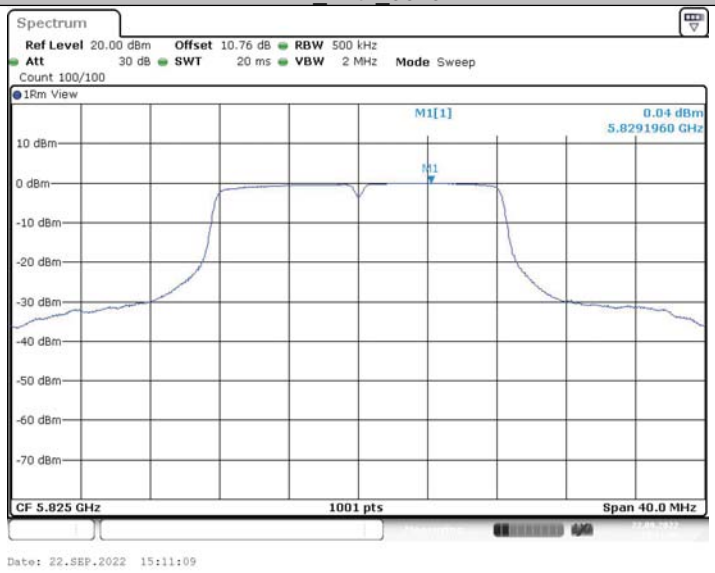
11A_Ant1_5320
11A_Ant1_5500
11A_Ant1_5580



11A_Ant1_5700

11A_Ant1_5745



11A_Ant1_5785

11A_Ant1_5825


6.6 Appendix F: FREQUENCY STABILITY

6.6.1 Test Result

Voltage								
TestMode	Antenna	Frequency[MHz]	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	-40000.00	-7.722008	20	PASS
			LV	NT	-45000.00	-8.687259	20	PASS
			HV	NT	-45000.00	-8.687259	20	PASS
		5220	NV	NT	20000.00	3.831418	20	PASS
			LV	NT	20000.00	3.831418	20	PASS
			HV	NT	40000.00	7.662835	20	PASS
		5260	NV	NT	40000.00	7.604563	20	PASS
			LV	NT	40000.00	7.604563	20	PASS
			HV	NT	40000.00	7.604563	20	PASS

Temperature								
TestMode	Antenna	Frequency[MHz]	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	-30	20000.00	3.861004	20	PASS
			NV	-20	20000.00	3.861004	20	PASS
			NV	-10	20000.00	3.861004	20	PASS
			NV	0	20000.00	3.861004	20	PASS
			NV	10	40000.00	7.722008	20	PASS
			NV	20	40000.00	7.722008	20	PASS
			NV	30	20000.00	3.861004	20	PASS
			NV	40	40000.00	7.722008	20	PASS
			NV	50	40000.00	7.722008	20	PASS
		5220	NV	-30	20000.00	3.831418	20	PASS
			NV	-20	40000.00	7.662835	20	PASS
			NV	-10	20000.00	3.831418	20	PASS
			NV	0	20000.00	3.831418	20	PASS
			NV	10	20000.00	3.831418	20	PASS
			NV	20	20000.00	3.831418	20	PASS
			NV	30	20000.00	3.831418	20	PASS
			NV	40	40000.00	7.662835	20	PASS
			NV	50	20000.00	3.831418	20	PASS
		5260	NV	-30	40000.00	7.604563	20	PASS
			NV	-20	40000.00	7.604563	20	PASS
			NV	-10	40000.00	7.604563	20	PASS
			NV	0	40000.00	7.604563	20	PASS
			NV	10	40000.00	7.604563	20	PASS
			NV	20	40000.00	7.604563	20	PASS
			NV	30	40000.00	7.604563	20	PASS
			NV	40	40000.00	7.604563	20	PASS
			NV	50	40000.00	7.604563	20	PASS

Important

(1) The test report is valid without the official stamp of CVC;

(2) Any part photocopies of the test report are forbidden without the written permission from CVC;

(3) The test report is invalid without the signatures of Approval and Reviewer;

(4) The test report is invalid if altered;

(5) Objections to the test report must be submitted to CVC within 15 days.

(6) Generally, commission test is responsible for the tested samples only.

(7) As for the test result “-” or “N” means “not applicable”, “/” means “not test”, “P” means “pass” and “F” means “fail”

The test data and test results given in this test report should only be used for purposes of scientific research, teaching and internal quality control when the CMA symbol is not presented.

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