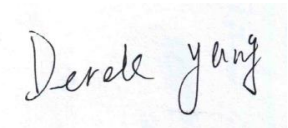
FCC TEST REPORT

Application No:	ZR/2019/90020
Applicant:	Qualcomm Atheros, Inc.
Address of Applicant	1700 Technology Drive, San Jose, CA 95110
Manufacturer:	Qualcomm Atheros, Inc.
Address of Manufacturer:	1700 Technology Drive, San Jose, CA 95110
EUT Description:	2x2 802.11A/B/G/N/AC WiFi + Bluetooth Module
Model No.:	QCNFA324
Trade Mark:	Qualcomm
FCC ID:	PPD-QCNFA324
Standards:	47 CFR FCC Part 2, Subpart J 47 CFR FCC Part 15, Subpart C 47 CFR FCC Part 15, Subpart E
Test Method	KDB 789033 D02 General UNII Test Procedures New Rules v02 FCC KDB 558074 D01 DTS Meas Guidance v0502 KDB 662911 D01 Multiple Transmitter Output v02r01 KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 KDB 905462 D03 Client Without DFS New Rules v01r02 ANSI C63.10-2013, American National Standard for Testing Unlicensed Wireless Devices
Date of Receipt:	2019/11/30
Date of Test:	2019/12/1 to 2019/12/16
Date of Issue:	2020/1/6
Test Result:	**PASS ***

. * In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Derek Yang
Wireless Laboratory Manager

1 Version

Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
00		2019/12/16		Original
01		2020/1/6		Modified limit for Unwanted Emissions in the Restricted Bands (Radiated)

Authorized for issue by:				
Tested By		Mike Hu **(Mike Hu) /Project Engineer**		2020/1/6 **Date**
Checked By		David Chen **(David Chen) /Reviewer**		2020/1/6 **Date**

Remark:

This is to request a Class II permissive change for 2x2 802.11a/b/g/n/ac + Bluetooth Module, Model Name: QCNFA324, FCC ID: PPD-QCNFA324.

The major change filed under this application is:

• The subject approved module is being used in a specific host (portable category configuration, brand name/model: Lenovo/Lenovo CT-X636F).

• Power reduction in order to comply with SAR and RSE requirements.

So only conducted output power and unwanted emissions that fall Out of the Restricted Bands (Radiated), unwanted emissions in the Restricted Bands (Radiated) spot checked, and the data displayed in this report, other data can refer to the original report （Report No.: RF140808E04-1, RF140808E04-3）.

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Contents

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2 Test Summary

Test Item	Band	FCC Rule	Requirements	Test Result	Verdict
Maximum Conducted Output Power	5150-5250	15.407(a)(1) 15.407(a)(4)	FCC < 250mW (avg during transmission)	Clause 4.1	Pass
	5250-5350	15.407(a)(2) 15.407(a)(4)	<MIN{250mW,11dBm+10*lg(EBW)} (avg during transmission)		
	5470-5725	15.407(a)(2) 15.407(a)(4)	<MIN{250mW,11dBm+10*lg(EBW)} (avg during transmission)		
	5725-5850	15.407(a)(3)	< 1W (avg during transmission)		
Unwanted Emissions that fall Out of the Restricted Bands (Radiated)	5150-5250	15.407(b)(1) 15.407(b)(6) 15.407(b)(7) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.15-5.35 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).	Clause 4.2	Pass
	5250-5350	15.407(b)(2) 15.407(b)(6) 15.407(b)(7) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.25-5.35 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		
	5470-5750	15.407(b)(3) 15.407(b)(6) 15.407(b)(7) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.47-5.725 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		
	5725-5850	15.407(b)(4) 15.407(b)(6) 15.407(b)(7) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP) F≥1GHz &out-restricted:(QP) a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges; b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges; c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or		

Test Item	Band	FCC Rule	Requirements	Test Result	Verdict
			below the band edges; and d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges. F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		
Unwanted Emissions in the Restricted Bands (Radiated)	5150-5250 5250-5350 5470-5725 5725-5850	15.209	---	Clause 4.3	Pass
Dynamic Frequency Selection	5250-5350 5470-5725	47 CFR Part 15, Subpart E 15.407	Channel Move Time:10 Seconds Transmission Time: milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. Non-occupancy period: Minimum 30 minutes	Clause 4.4	Pass

3 General Information

3.1 Client Information

Applicant:	Qualcomm Atheros, Inc.
Address of Applicant:	1700 Technology Drive, San Jose, CA 95110
Manufacturer:	Qualcomm Atheros, Inc.
Address of Manufacturer:	1700 Technology Drive, San Jose, CA 95110

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China
Post code:	518057
Telephone:	+86 (0) 755 2601 2053
Fax:	+86 (0) 755 2671 0594
E-mail:	ee.shenzhen@sgs.com

3.3 Test Facility

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

• **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

• **Industry Canada (IC)**

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

3.4 General Description of EUT

EUT Description:		2x2 802.11A/B/G/N/AC WiFi + Bluetooth Module
Model No.:		QCNFA324
Trade Mark:		Qualcomm
Product Description of Host		Portable Tablet Computer
Model No. of Host:		Lenovo CT-X636F
Trade Mark of Host:		Lenovo
Host	Hardware Version:	Google Chrome 79.0.3940.0 (Platform 12601.0.0-19.10.16)
	Software Version:	Lenovo Tablet CT-X636F
IEEE 802.11 WLAN Mode Supported		☒ 802.11a (20 MHz channel bandwidth) ; ☒ 802.11n (20 MHz channel bandwidth); ☒ 802.11n (40 MHz channel bandwidth); ☒ 802.11ac (20 MHz channel bandwidth); ☒ 802.11ac (40 MHz channel bandwidth); ☒ 802.11ac (80 MHz channel bandwidth); ☐ 802.11ac (160 MHz channel bandwidth),
Operation Frequency:		IEEE 802.11n(HT20/40)/ ac(HT20/40/80/): 5150MHz to 5250MHz IEEE 802.11n(HT20/40)/ ac(HT20/40/80/160): 5250MHz to 5350MHz IEEE 802.11n(HT20/40)/ ac(HT20/40/80/160): 5470MHz to 5725MHz IEEE 802.11n(HT20/40)/ ac(HT20/40/80): 5725MHz to 5850MHz
Type of Modulation:		OFDM
DFS mode:		☐Master ☐ Slave with radar detection ☒Slave without radar detection
Sample Type:		☒ Portable Device, ☐Module
Antenna Type:		☐ External, ☒ Integrated
Antenna Ports		☒ Ant 1, ☒ Ant 2, ☐ Ant 3
Smart System		☒ SISO (for 802.11a/n/ac), ☒ MIMO (for 802.11n/ac), ☐ Diversity (for 802.11a) : Tx & Rx
Antenna Gain:		Ant1: -1.2dBi; Ant2: -1.2dBi
Power Supply		☐ AC/DC Adapter; ☒ Battery ;☐ PoE:; ☐ Other:

Remark:

In FCC 15.31, for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table, and the selected channel to perform the test as below:

Frequency Range of Operation Operating Frequency Range (in each Band)	Number of Measurement Frequencies Required	Location of Measurement Frequency in Band of Operation
1 MHz or less	1	centre
1 MHz to 10 MHz	2	1 near high end, 1 near low end
Greater than 10 MHz	3	1 near high end, 1 near centre

For UNII Band I:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5180
	The Middle channel	5200
	The Highest channel	5240
IEEE 802.11n/ac 40MHz	The Lowest channel	5190
	The Highest channel	5230
IEEE 802.11ac 80MHz	The Middle channel	5210

For UNII Band II-A:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5260
	The Middle channel	5280
	The Highest channel	5320
IEEE 802.11n/ac 40MHz	The Lowest channel	5270
	The Highest channel	5310
IEEE 802.11ac 80MHz	The Middle channel	5290

For UNII Band II-C:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5500
	The Middle channel	5580
	The Highest channel	5700
IEEE 802.11n/ac 40MHz	The Lowest channel	5510
	The Middle channel	5500
	The Highest channel	5670
IEEE 802.11ac 80MHz	The Lowest channel	5500
	The Highest channel	5580

For UNII Band III:

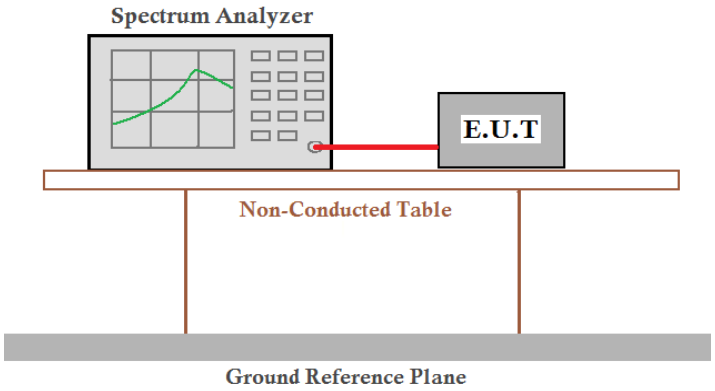
Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5745
	The Middle channel	5785
	The Highest channel	5825
IEEE 802.11n/ac 40MHz	The Lowest channel	5755
	The Highest channel	5795
IEEE 802.11ac 80MHz	The Middle channel	5775

3.5 Test Environment and Mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	55 % RH
Atmospheric Pressure:	101.32 KPa
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.

4 Test results and Measurement Data

4.1 Maximum Conducted Output Power

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10: 2013	
Test Setup:		
Test Instruments:	Refer to section 5.10 for details	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Through Pre-scan, find that 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20); MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(HT20); MCS0 of rate is the worst case of 802.11ac(HT40); MCS0 of rate is the worst case of 802.11ac(HT80) Only the worst case is recorded in the report.	
Limit:	Frequency Band	Limit
	5150-5250MHz	Not exceed 250mW(24dBm)
	5250-5350MHz	The lesser of 250mW(24dBm) or 11+ 10logB
	5470-5725MHz	The lesser of 250mW(24dBm) or 11+ 10logB
	5725-5850MHz	Not exceed 1W(30dBm)
	*Where B is the 26dB emission bandwidth in MHz	
Test Results:	Pass	

4.1.1 Test Result for SISO

5GHz	mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Verdict
802.11a	U-NII-1	36	5180	6	12.41	12.07	Pass
		40	5200		12.09	12.66	Pass
		44	5220		12.23	12.63	Pass
		48	5240		12.59	12.85	Pass
	U-NII-2A	52	5260		12.69	12.93	Pass
		56	5280		12.88	12.97	Pass
		60	5300		12.53	12.89	Pass
		64	5320		12.62	12.94	Pass
	U-NII-2C	100	5500		10.72	10.83	Pass
		104	5520		10.05	10.02	Pass
		108	5540		10.44	10.21	Pass
		112	5560		10.23	10.74	Pass
		116	5580		10.65	10.76	Pass
		120	5600		10.08	10.25	Pass
		124	5620		9.59	10.28	Pass
		128	5640		9.67	10.24	Pass
		132	5660		9.66	10.09	Pass
		136	5680		9.72	10.08	Pass
		140	5700		9.59	10.66	Pass
		144	5720		10.55	10.88	Pass
	U-NII-3	149	5745		10.92	10.68	Pass
		153	5765		10.85	10.59	Pass
		157	5785		10.98	10.78	Pass
		161	5805		10.54	10.46	Pass
		165	5825		10.88	10.71	Pass
802.11n-HT20	U-NII-1	36	5180	MCS0	11.78	12.38	Pass
		40	5200		11.88	12.45	Pass
		44	5220		12.03	12.38	Pass
		48	5240		12.34	11.68	Pass
	U-NII-2A	52	5260		12.44	11.65	Pass
		56	5280		11.73	11.77	Pass
		60	5300		12.42	11.73	Pass
		64	5320		12.08	11.75	Pass
	U-NII-2C	100	5500		10.43	10.91	Pass
		104	5520		10.77	10.67	Pass
		108	5540		10.39	10.01	Pass
		112	5560		10.12	10.43	Pass
		116	5580		10.14	10.75	Pass
		120	5600		10.74	10.98	Pass
		124	5620		10.82	10.01	Pass
		128	5640		10.79	10.85	Pass

		132	5660		10.83	10.78	Pass
		136	5680		10.98	10.82	Pass
		140	5700		10.69	10.68	Pass
		144	5720		10.34	10.53	Pass
	U-NII-3	149	5745		9.89	10.06	Pass
		153	5765		9.51	10.73	Pass
		157	5785		10.68	10.64	Pass
		161	5805		10.47	10.37	Pass
		165	5825		10.04	10.11	Pass
802.11n-HT40	U-NII-1	38	5190	MCS0	10.38	10.18	Pass
		46	5230		11.04	11.38	Pass
	U-NII-2A	54	5270		11.25	11.42	Pass
		62	5310		9.98	10.37	Pass
	U-NII-2C	102	5510		10.25	10.02	Pass
		110	5550		10.01	11.38	Pass
		118	5590		10.77	11.21	Pass
		126	5630		10.56	10.71	Pass
		134	5670		10.55	10.48	Pass
		142	5710		10.16	11.21	Pass
	U-NII-3	151	5755		10.59	10.66	Pass
		159	5795		10.26	11.14	Pass
802.11ac 20M	U-NII-1	36	5180	MCS0	11.71	11.76	Pass
		40	5200		11.74	11.88	Pass
		44	5220		11.88	11.93	Pass
		48	5240		12.26	12.17	Pass
	U-NII-2A	52	5260		11.97	12.15	Pass
		56	5280		12.12	12.25	Pass
		60	5300		11.84	12.17	Pass
		64	5320		11.48	12.21	Pass
	U-NII-2C	100	5500		10.51	10.92	Pass
		104	5520		10.81	10.68	Pass
		108	5540		10.45	10.05	Pass
		112	5560		9.98	10.41	Pass
		116	5580		10.57	10.87	Pass
		120	5600		10.24	10.03	Pass
		124	5620		10.35	10.02	Pass
		128	5640		10.34	10.01	Pass
		132	5660		9.83	10.37	Pass
		136	5680		9.96	10.33	Pass
		140	5700		9.79	10.17	Pass
		144	5720		9.48	9.91	Pass
	U-NII-3	149	5745		10.32	10.51	Pass
		153	5765		9.94	10.23	Pass
		157	5785		10.26	10.08	Pass
		161	5805		10.03	9.85	Pass

		165	5825		9.59	9.59	Pass
802.11ac 40M	U-NII-1	38	5190	MCS0	9.98	10.15	Pass
		46	5230		11.05	10.99	Pass
	U-NII-2A	54	5270		11.17	11.01	Pass
		62	5310		10.47	10.45	Pass
	U-NII-2C	102	5510		10.36	10.65	Pass
		110	5550		9.59	10.94	Pass
		118	5590		10.23	10.73	Pass
		126	5630		10.08	11.31	Pass
		134	5670		9.57	10.99	Pass
		142	5710		10.32	10.79	Pass
	U-NII-3	151	5755		10.63	11.12	Pass
		159	5795		10.34	10.71	Pass
802.11ac 80M	U-NII-1	42	5210	MCS0	9.44	9.26	Pass
	U-NII-2A	58	5290		8.74	9.02	Pass
	U-NII-2C	106	5530		9.17	9.24	Pass
		122	5610		9.32	9.07	Pass
		138	5690		8.89	9.26	Pass
	U-NII-3	155	5775		8.93	9.31	Pass

4.1.2 Test Result for MIMO

5GHz	mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Average Power (dBm)	Verdict
802.11a	U-NII-1	36	5180	6	15.25	Pass
		40	5200		15.39	Pass
		44	5220		15.44	Pass
		48	5240		15.73	Pass
	U-NII-2A	52	5260		15.82	Pass
		56	5280		15.94	Pass
		60	5300		15.72	Pass
		64	5320		15.79	Pass
	U-NII-2C	100	5500		13.79	Pass
		104	5520		13.05	Pass
		108	5540		13.34	Pass
		112	5560		13.50	Pass
		116	5580		13.72	Pass
		120	5600		13.18	Pass
		124	5620		12.96	Pass
		128	5640		12.97	Pass
		132	5660		12.89	Pass
		136	5680		12.91	Pass
		140	5700		13.17	Pass
		144	5720		13.73	Pass
	U-NII-3	149	5745		13.81	Pass
		153	5765		13.73	Pass
		157	5785		13.89	Pass

		161	5805		13.51	Pass
		165	5825		13.81	Pass
802.11n-HT20	U-NII-1	36	5180	MCS0	15.10	Pass
		40	5200		15.18	Pass
		44	5220		15.22	Pass
		48	5240		15.03	Pass
	U-NII-2A	52	5260		15.07	Pass
		56	5280		14.76	Pass
		60	5300		15.10	Pass
		64	5320		14.93	Pass
	U-NII-2C	100	5500		13.69	Pass
		104	5520		13.73	Pass
		108	5540		13.21	Pass
		112	5560		13.29	Pass
		116	5580		13.47	Pass
		120	5600		13.87	Pass
		124	5620		13.44	Pass
		128	5640		13.83	Pass
		132	5660		13.82	Pass
		136	5680		13.91	Pass
		140	5700		13.70	Pass
		144	5720		13.45	Pass
	U-NII-3	149	5745		12.99	Pass
		153	5765		13.17	Pass
		157	5785		13.67	Pass
		161	5805		13.43	Pass
		165	5825		13.09	Pass
802.11n-HT40	U-NII-1	38	5190	MCS0	13.29	Pass
		46	5230		14.22	Pass
	U-NII-2A	54	5270		14.35	Pass
		62	5310		13.19	Pass
	U-NII-2C	102	5510		13.15	Pass
		110	5550		13.76	Pass
		118	5590		14.01	Pass
		126	5630		13.65	Pass
		134	5670		13.53	Pass
		142	5710		13.73	Pass
	U-NII-3	151	5755		13.64	Pass
		159	5795		13.73	Pass
802.11ac 20M	U-NII-1	36	5180	MCS0	14.75	Pass
		40	5200		14.82	Pass
		44	5220		14.92	Pass
		48	5240		15.23	Pass
	U-NII-2A	52	5260		15.07	Pass
		56	5280		15.20	Pass

		60	5300		15.02	Pass
		64	5320		14.87	Pass
	U-NII-2C	100	5500		13.73	Pass
		104	5520		13.76	Pass
		108	5540		13.26	Pass
		112	5560		13.21	Pass
		116	5580		13.73	Pass
		120	5600		13.15	Pass
		124	5620		13.20	Pass
		128	5640		13.19	Pass
		132	5660		13.12	Pass
		136	5680		13.16	Pass
		140	5700		12.99	Pass
		144	5720		12.71	Pass
	U-NII-3	149	5745		13.43	Pass
		153	5765		13.10	Pass
		157	5785		13.18	Pass
		161	5805		12.95	Pass
		165	5825		12.60	Pass
802.11ac 40M	U-NII-1	38	5190	MCS0	13.08	Pass
		46	5230		14.03	Pass
	U-NII-2A	54	5270		14.10	Pass
		62	5310		13.47	Pass
	U-NII-2C	102	5510		13.52	Pass
		110	5550		13.33	Pass
		118	5590		13.50	Pass
		126	5630		13.75	Pass
		134	5670		13.35	Pass
		142	5710		13.57	Pass
	U-NII-3	151	5755		13.89	Pass
		159	5795		13.54	Pass
802.11ac 80M	U-NII-1	42	5210	MCS0	12.36	Pass
	U-NII-2A	58	5290		11.89	Pass
	U-NII-2C	106	5530		12.22	Pass
		122	5610		12.21	Pass
		138	5690		12.09	Pass
	U-NII-3	155	5775		12.13	Pass

4.2 Unwanted Emissions that fall Out of the Restricted Bands (Radiated)

Test Requirement:	47 CFR Part 15 Section 15.407(b)
Test Method:	ANSI C63.10: 2013
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)
Test Setup:	

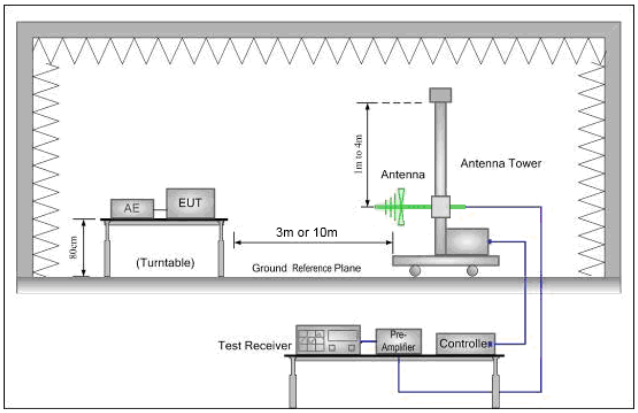


Figure 1. 30MHz to 1GHz

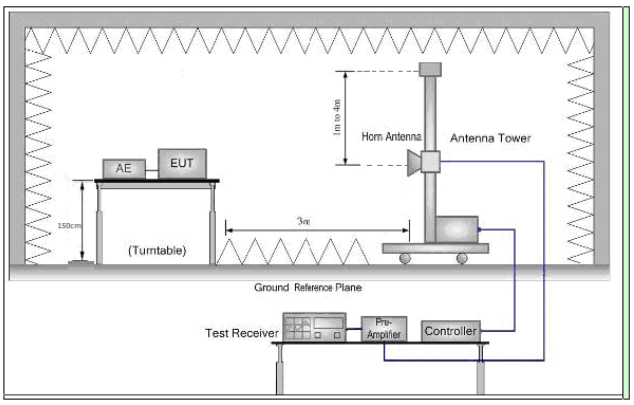


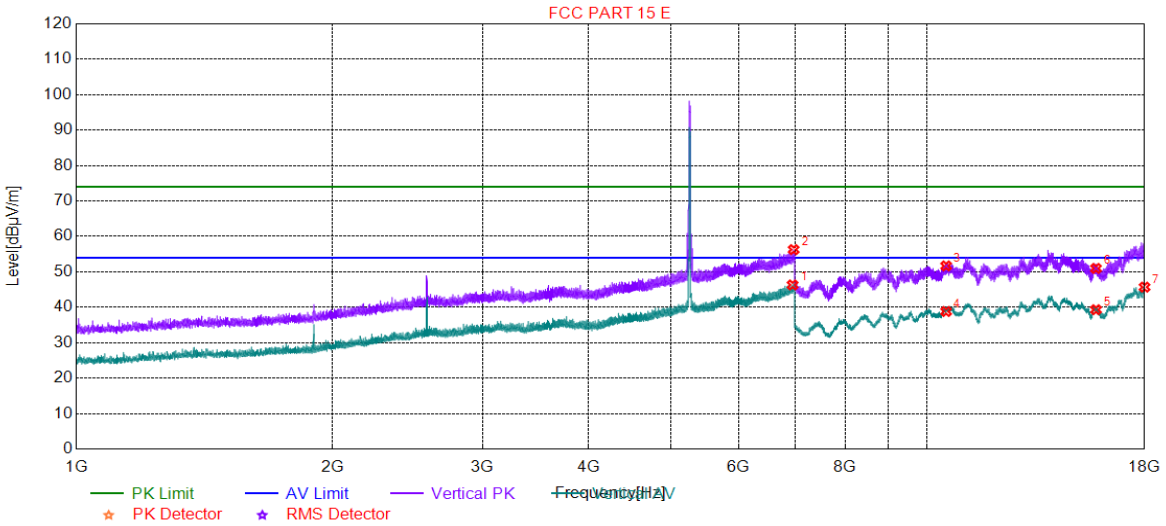
Figure 2. Above 1 GHz

Test Procedure:	a. For below 1GHz test, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz test, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. d. 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. e. 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. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Test the EUT in the outermost channels. h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete.

Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20); MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(HT20); MCS0 of rate is the worst case of 802.11ac(HT40); MCS0 of rate is the worst case of 802.11ac(HT80) For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11a at lowest channel is the worst case. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

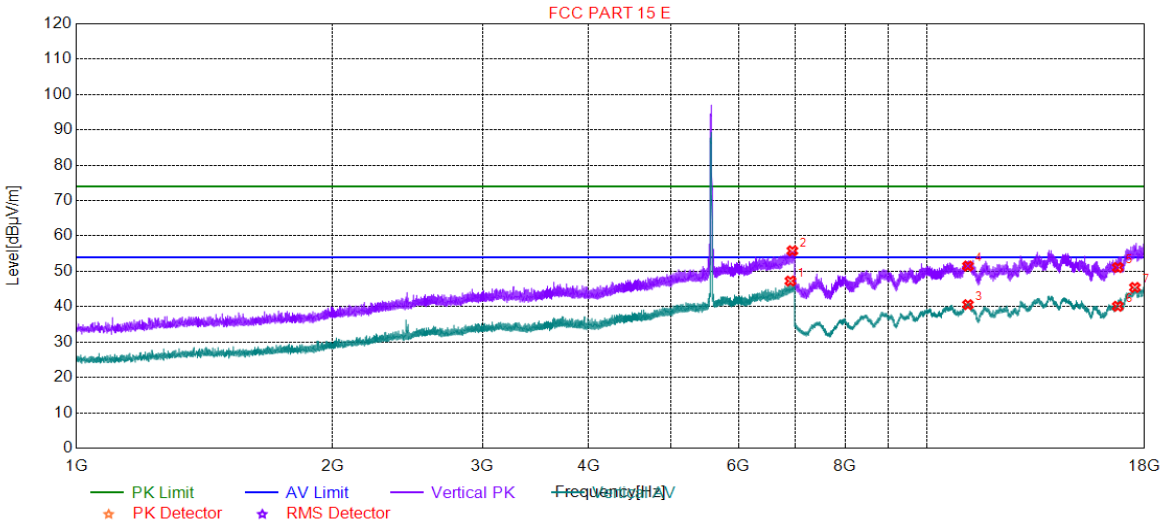
4.2.1 Transmitter emission above 1GHz

4.2.1.1 11A20_CDD_52_Vertical



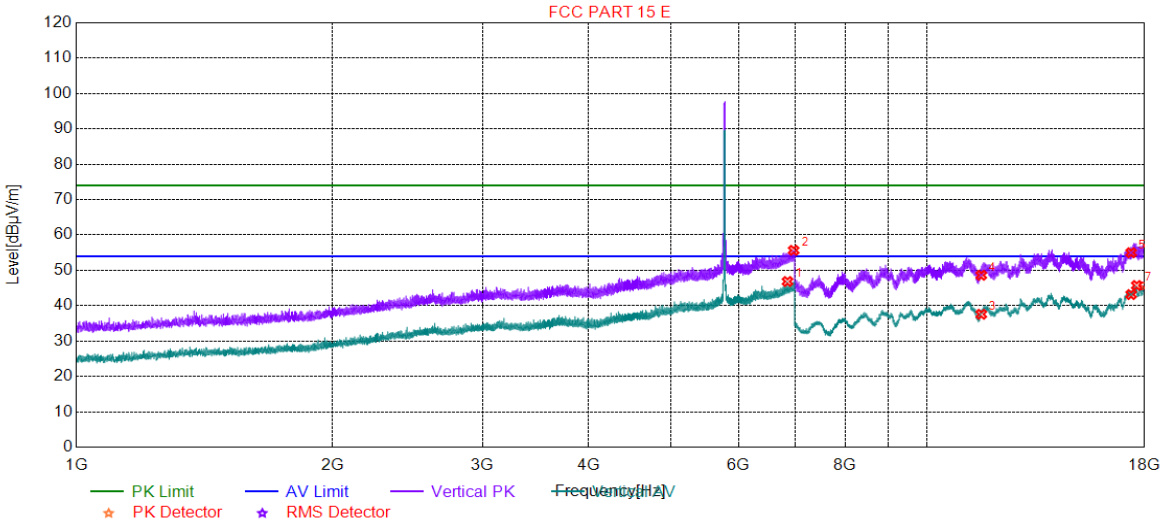
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	6944.1972	46.31	23.81	54.00	7.69	150	219	AV	Vertical
2	6963.9982	56.28	23.91	74.00	17.72	150	270	PK	Vertical
3	10520.0000	51.68	-4.37	74.00	22.32	150	217	PK	Vertical
4	10520.0000	38.82	-4.37	54.00	15.18	150	217	AV	Vertical
5	15780.0000	39.32	-2.36	54.00	14.68	150	268	AV	Vertical
6	15780.0000	50.97	-2.36	74.00	23.03	150	217	PK	Vertical
7	17997.2499	45.69	-0.37	54.00	8.31	150	217	AV	Vertical

4.2.1.2 11A20_CDD_116_Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	6903.0952	47.27	23.60	54.00	6.73	150	218	AV	Vertical
2	6940.2970	55.81	23.79	74.00	18.19	150	117	PK	Vertical
3	11160.0000	40.58	-3.43	54.00	13.42	150	359	AV	Vertical
4	11160.0000	51.50	-3.43	74.00	22.50	150	266	PK	Vertical
5	16740.0000	51.09	-3.33	74.00	22.91	150	359	PK	Vertical
6	16740.0000	40.13	-3.33	54.00	13.87	150	316	AV	Vertical
7	17532.4766	45.46	0.77	54.00	8.54	150	359	AV	Vertical

4.2.1.3 11A20_CDD_157_Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	6849.3925	46.85	23.46	54.00	7.15	150	118	AV	Vertical
2	6963.9982	55.66	23.91	74.00	18.34	150	319	PK	Vertical
3	11570.0000	37.58	-3.87	54.00	16.42	150	18	AV	Vertical
4	11570.0000	48.61	-3.87	74.00	25.39	150	217	PK	Vertical
5	17355.0000	54.99	-1.07	74.00	19.01	150	118	PK	Vertical
6	17355.0000	43.16	-1.07	54.00	10.84	150	68	AV	Vertical
7	17622.6811	45.73	1.04	54.00	8.27	150	217	AV	Vertical

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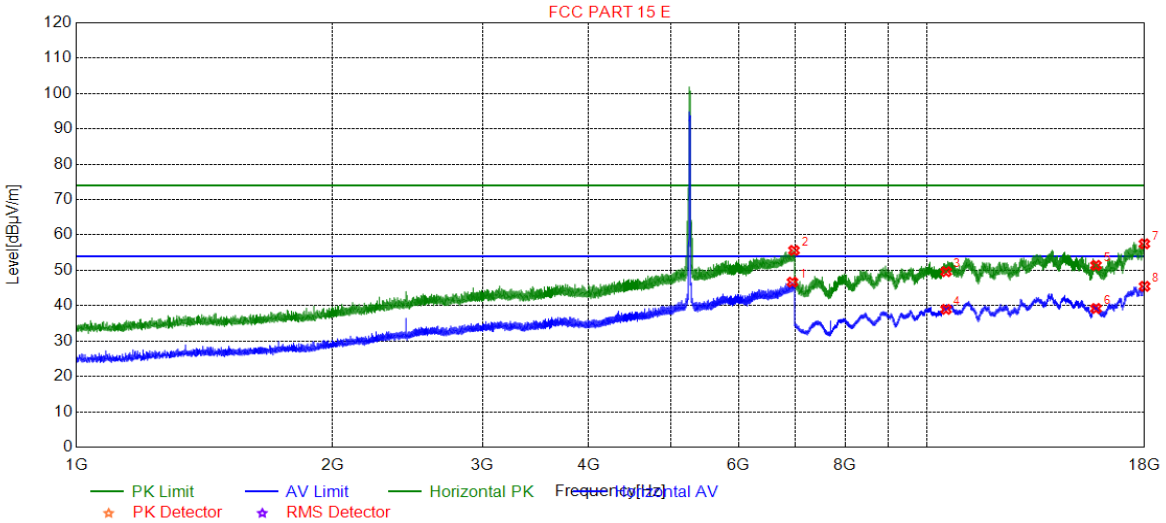
4.2.1.4 11A20_CDD_52_ Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	6941.1971	46.67	23.79	54.00	7.33	150	43	AV	Horizontal
2	6970.5985	55.64	23.95	74.00	18.36	150	243	PK	Horizontal
3	10520.0000	49.62	-4.37	74.00	24.38	150	342	PK	Horizontal
4	10520.0000	38.97	-4.37	54.00	15.03	150	1	AV	Horizontal
5	15780.0000	51.42	-2.36	74.00	22.58	150	243	PK	Horizontal
6	15780.0000	39.21	-2.36	54.00	14.79	150	93	AV	Horizontal
7	17990.0995	57.50	-0.43	74.00	16.50	150	44	PK	Horizontal
8	18000.0000	45.48	-0.35	54.00	8.52	150	193	AV	Horizontal

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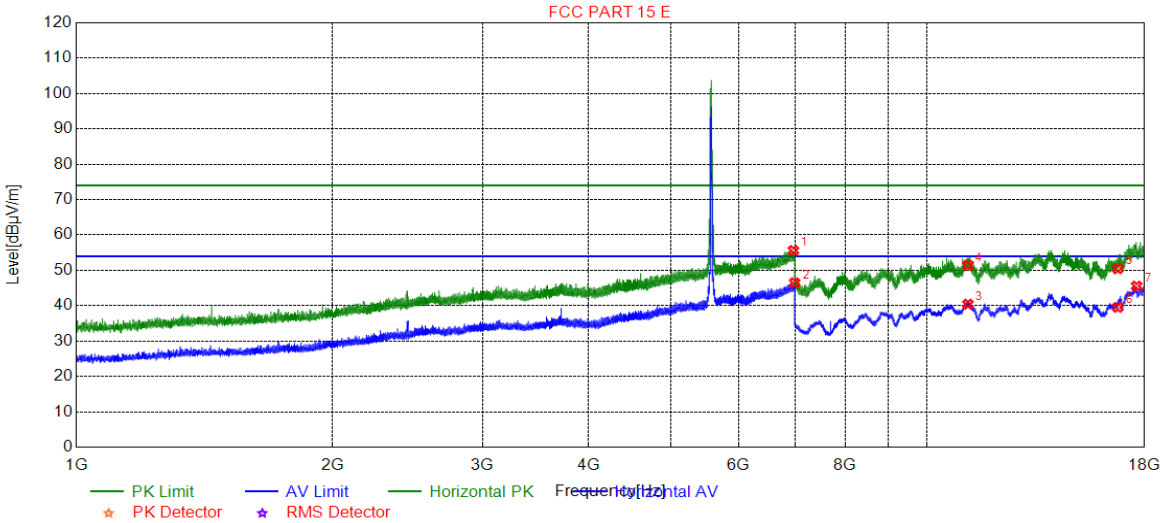
4.2.1.5 11A20_CDD_116_ Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	6959.4980	55.62	23.89	74.00	18.38	150	42	PK	Horizontal
2	6983.7992	46.50	24.02	54.00	7.50	150	193	AV	Horizontal
3	11160.0000	40.44	-3.43	54.00	13.56	150	342	AV	Horizontal
4	11160.0000	51.44	-3.43	74.00	22.56	150	42	PK	Horizontal
5	16740.0000	50.47	-3.33	74.00	23.53	150	292	PK	Horizontal
6	16740.0000	39.54	-3.33	54.00	14.46	150	292	AV	Horizontal
7	17615.5308	45.56	1.23	54.00	8.44	150	242	AV	Horizontal

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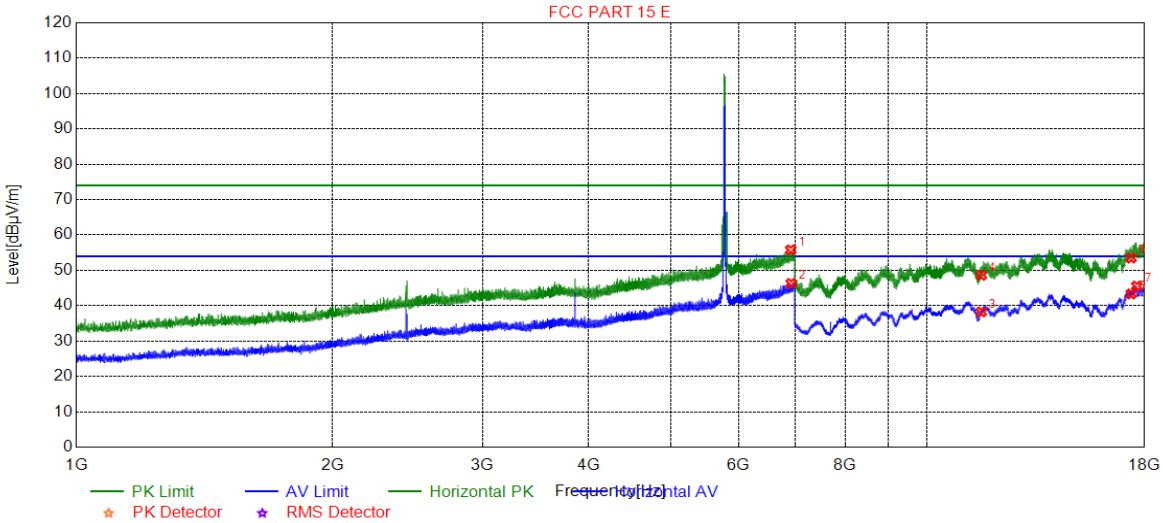
4.2.1.6 11A20_CDD_157_ Horizontal



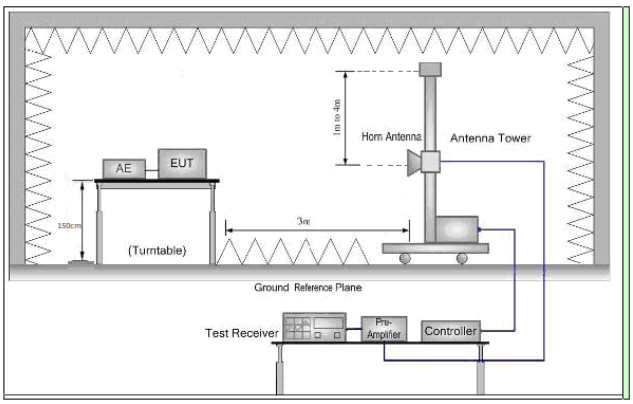
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	6908.7954	55.79	23.63	74.00	18.21	150	92	PK	Horizontal
2	6917.4959	46.30	23.67	54.00	7.70	150	242	AV	Horizontal
3	11570.0000	38.26	-3.87	54.00	15.74	150	144	AV	Horizontal
4	11570.0000	48.61	-3.87	74.00	25.39	150	292	PK	Horizontal
5	17355.0000	53.49	-1.07	74.00	20.51	150	94	PK	Horizontal
6	17355.0000	43.32	-1.07	54.00	10.68	150	45	AV	Horizontal
7	17621.5811	45.57	1.07	54.00	8.43	150	45	AV	Horizontal

Remark:
1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
2) Scan from 9kHz to 40GHz,The disturbance between 9KHz to 30MHz and 18GHz to 40GHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported .
3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

4) All modes have been tested, but only the worst case data displayed in this report.

4.3 Unwanted Emissions in the Restricted Bands (Radiated)

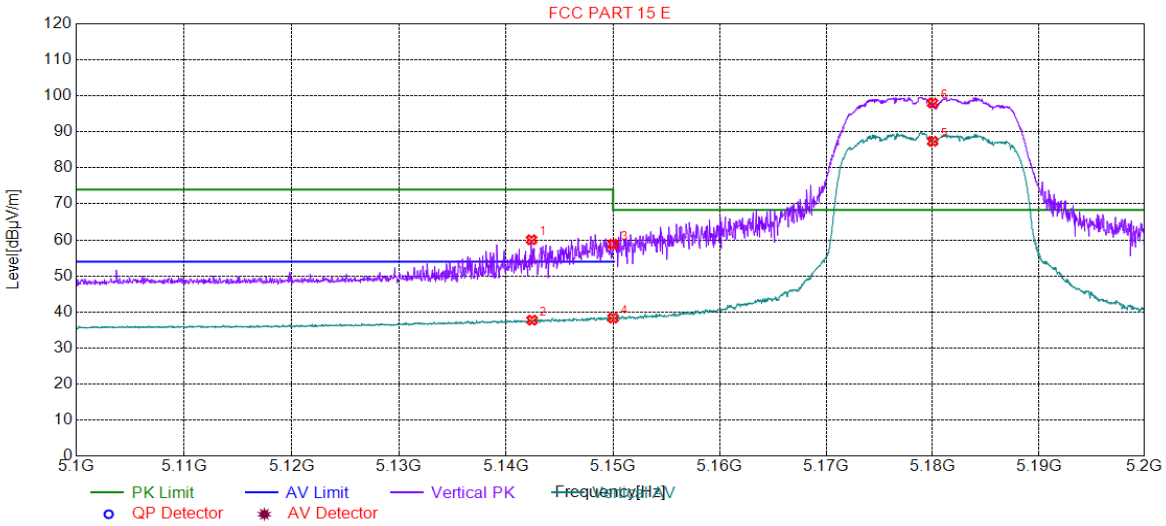
Test Requirement:	47 CFR Part 15 Section 15.407(b)		
Test Method:	ANSI C63.10: 2013		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m @3m)	Remark
	30MHz-88MHz	40.0	Quasi-peak Value
	88MHz-216MHz	43.5	Quasi-peak Value
	216MHz-960MHz	46.0	Quasi-peak Value
	960MHz-1GHz	54.0	Quasi-peak Value
	Above 1GHz	54.0	Average Value
		74.0	Peak Value
Test Setup:			



Test Procedure:	a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. 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 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. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel g. Test the EUT in the outermost channels. h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20); MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(HT20); MCS0 of rate is the worst case of 802.11ac(HT40); MCS0 of rate is the worst case of 802.11ac(HT80); Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

4.3.1 Test plots

4.3.1.1 11A20_CDD_36_Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5142.3712	60.04	17.90	74.00	13.96	150	161	PK	Vertical
2	5142.4212	37.73	17.90	54.00	16.27	150	156	AV	Vertical
3	5150.0000	58.82	17.92	74.00	15.18	150	74	PK	Vertical
4	5150.0000	38.32	17.92	54.00	15.68	150	161	AV	Vertical
5	5180.0000	87.38	17.98	---	---	150	74	AV	Vertical
6	5180.0000	98.00	17.98	---	---	150	74	PK	Vertical

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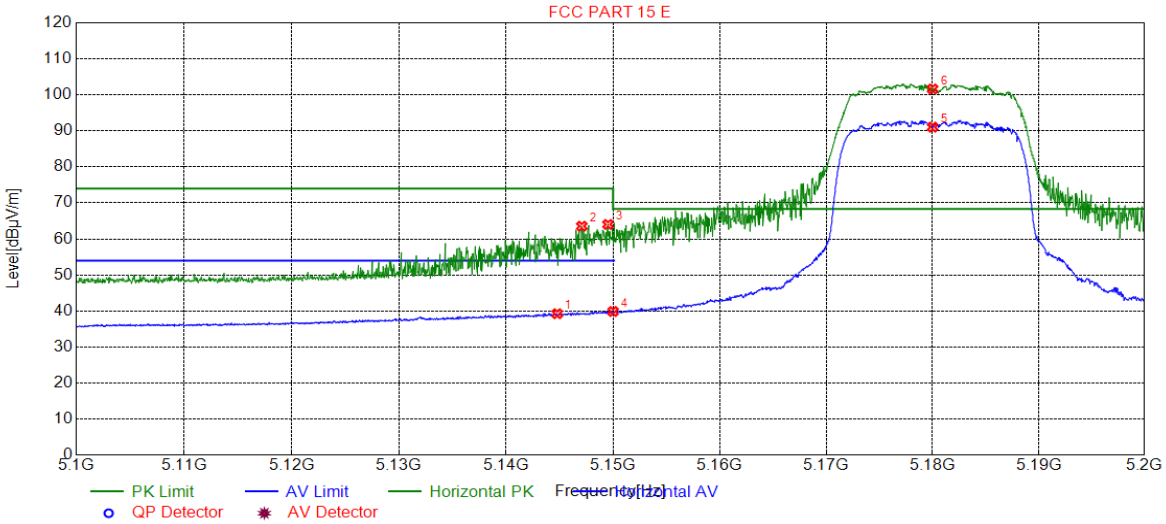
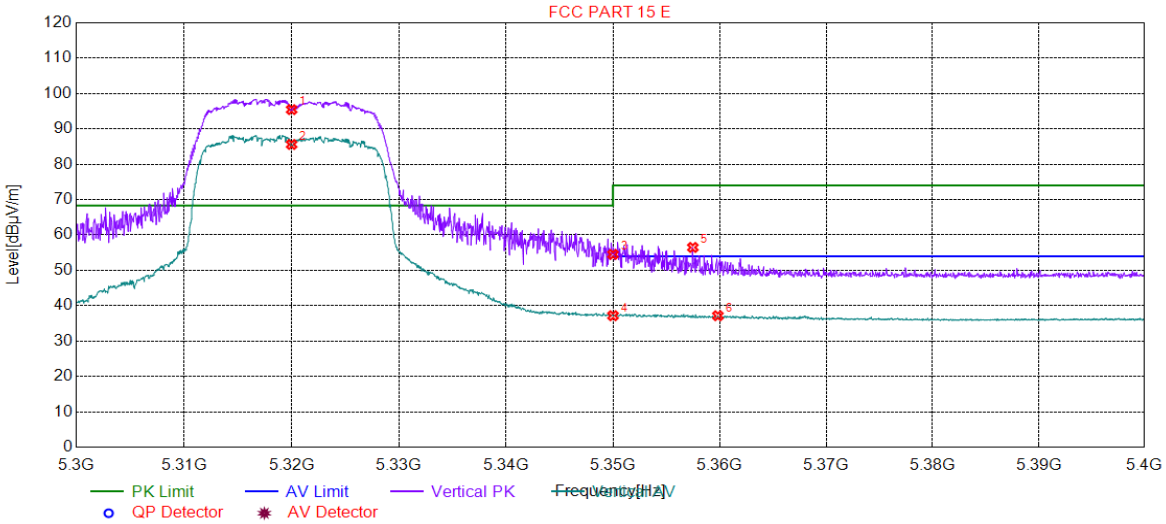
4.3.1.2 11A20_CDD_36_ Horizontal



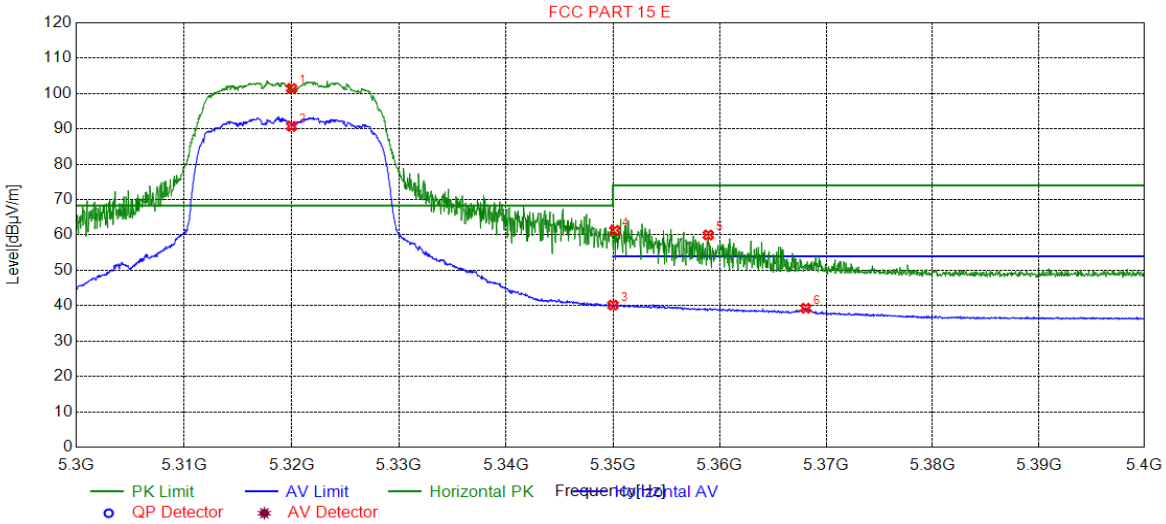
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5144.7724	39.25	17.90	54.00	14.75	150	88	AV	Horizontal
2	5147.0735	63.54	17.91	74.00	10.46	150	99	PK	Horizontal
3	5149.5248	64.03	17.91	74.00	9.97	150	325	PK	Horizontal
4	5150.0000	39.86	17.92	54.00	14.14	150	88	AV	Horizontal
5	5180.0000	91.04	17.98	---	---	150	94	AV	Horizontal
6	5180.0000	101.63	17.98	---	---	150	88	PK	Horizontal

4.3.1.3 11A20_CDD_64_Vertical



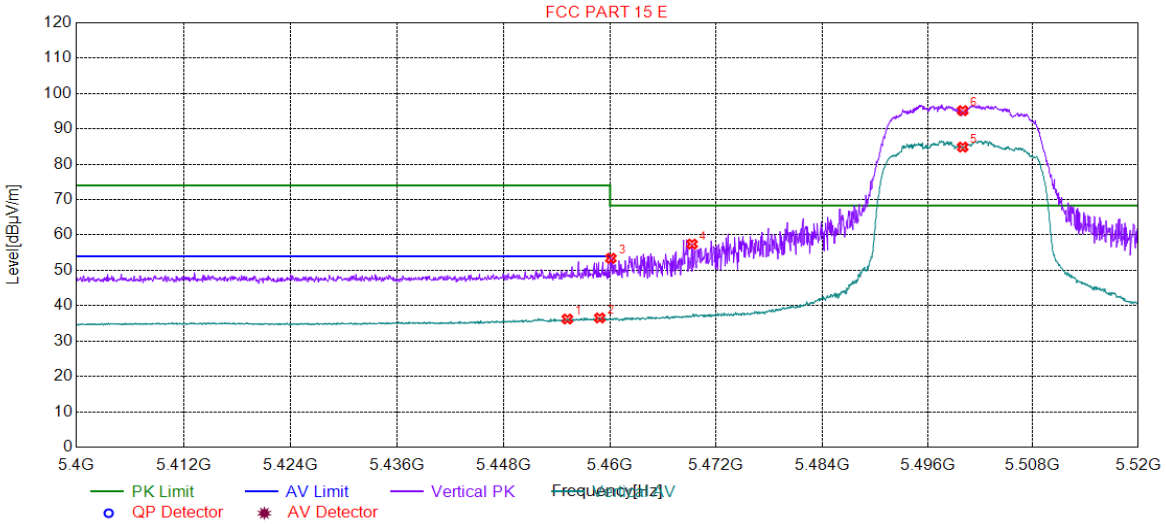
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5320.0000	95.45	18.33	---	---	150	187	PK	Vertical
2	5320.0000	85.59	18.33	---	---	150	187	AV	Vertical
3	5350.0000	54.50	18.44	74.00	19.50	150	76	PK	Vertical
4	5350.0000	37.18	18.44	54.00	16.82	150	166	AV	Vertical
5	5357.4787	56.48	18.47	74.00	17.52	150	187	PK	Vertical
6	5359.8299	37.16	18.48	54.00	16.84	150	187	AV	Vertical

4.3.1.4 11A20_CDD_64_ Horizontal



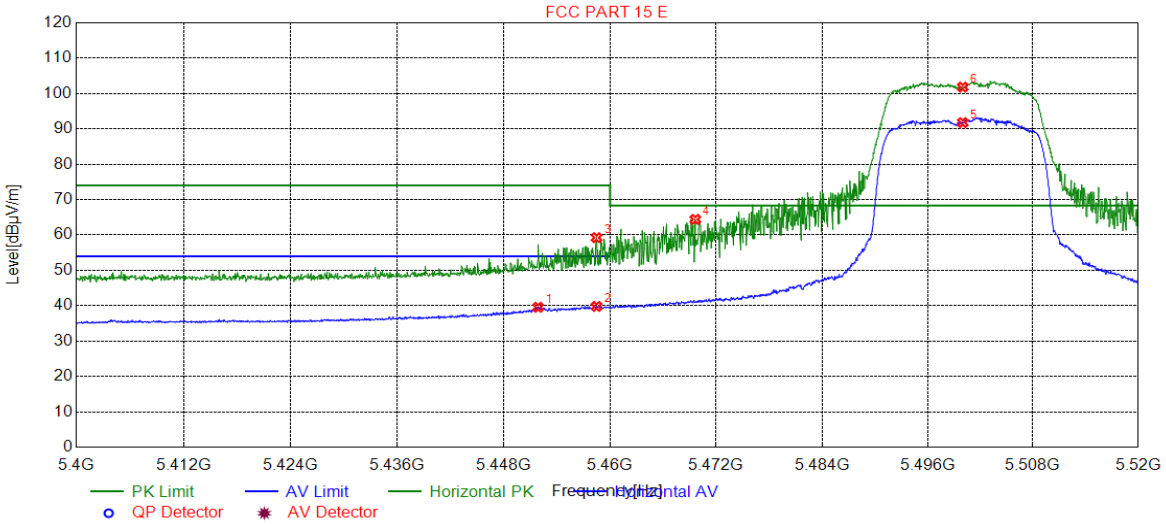
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5320.0000	101.45	18.33	---	---	150	92	PK	Horizontal
2	5320.0000	90.72	18.33	---	---	150	86	AV	Horizontal
3	5350.0000	40.16	18.44	54.00	13.84	150	31	AV	Horizontal
4	5350.1751	61.31	18.44	74.00	12.69	150	45	PK	Horizontal
5	5358.9295	60.00	18.47	74.00	14.00	150	92	PK	Horizontal
6	5368.0840	39.30	18.51	54.00	14.70	150	99	AV	Horizontal

4.3.1.5 11A20_CDD_100_Vertical



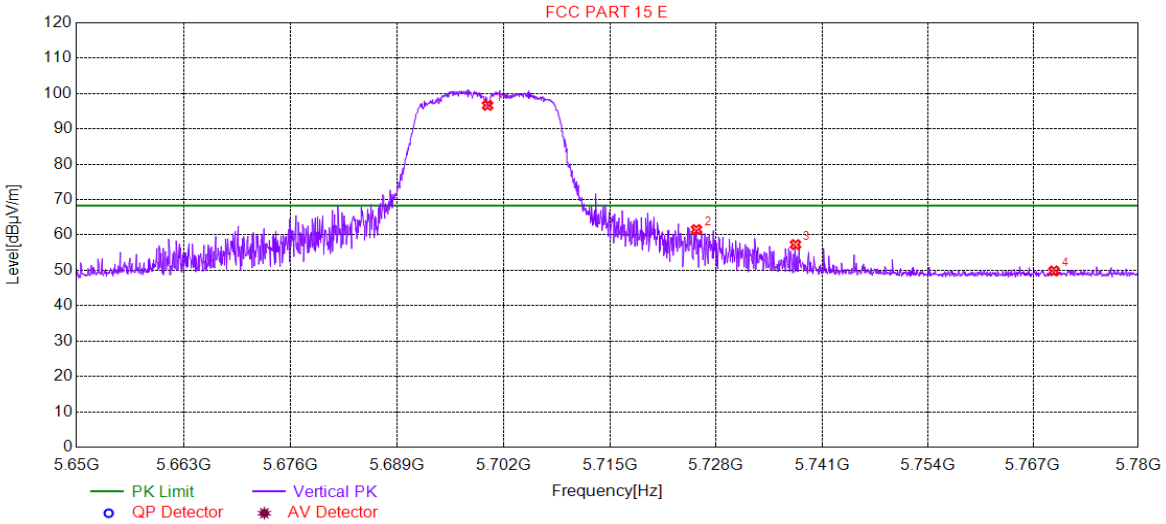
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5455.1676	36.24	18.54	54.00	17.76	150	190	AV	Vertical
2	5458.8294	36.55	18.54	54.00	17.45	150	190	AV	Vertical
3	5460.0900	53.41	18.53	68.30	14.89	150	201	PK	Vertical
4	5469.2746	57.43	18.52	68.30	10.87	150	190	PK	Vertical
5	5500.0000	84.86	18.47	---	---	150	173	AV	Vertical
6	5500.0000	95.15	18.47	---	---	150	173	PK	Vertical

4.3.1.6 11A20_CDD_100_ Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5451.8659	39.56	18.55	54.00	14.44	150	38	AV	Horizontal
2	5458.4692	39.80	18.54	54.00	14.20	150	38	AV	Horizontal
3	5458.4692	59.24	18.54	74.00	14.76	150	44	PK	Horizontal
4	5469.6348	64.42	18.52	68.30	3.88	150	38	PK	Horizontal
5	5500.0000	91.77	18.47	---	---	150	44	AV	Horizontal
6	5500.0000	101.82	18.47	---	---	150	44	PK	Horizontal

4.3.1.7 11N20_MIMO_140_Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5700.0000	96.65	19.17	---	---	150	157	PK	Vertical
2	5725.5678	61.55	19.34	68.30	6.75	150	162	PK	Vertical
3	5737.7289	57.30	19.42	68.30	11.00	150	152	PK	Vertical
4	5769.5948	49.84	19.64	68.30	18.46	150	148	PK	Vertical

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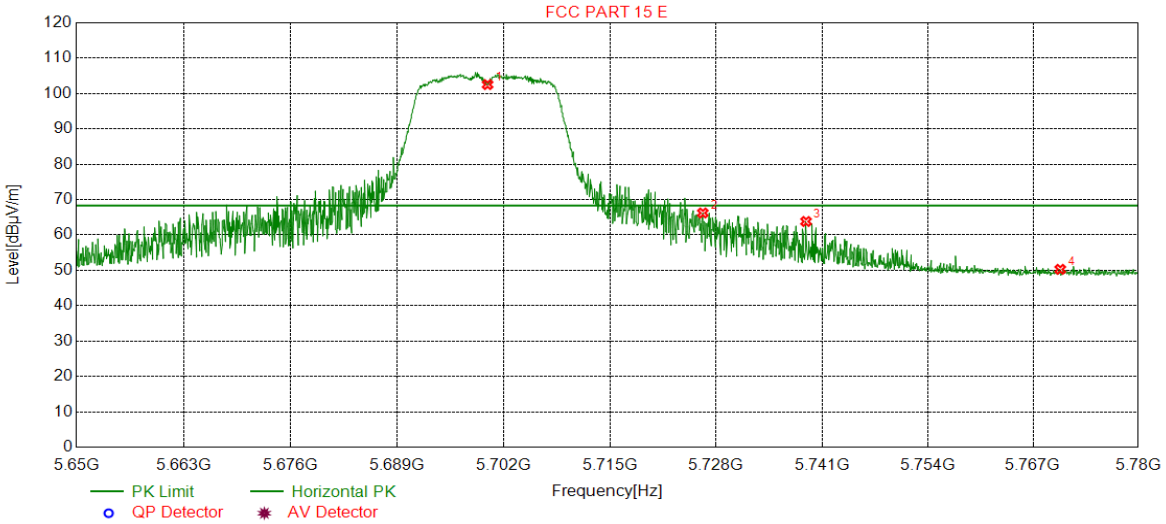
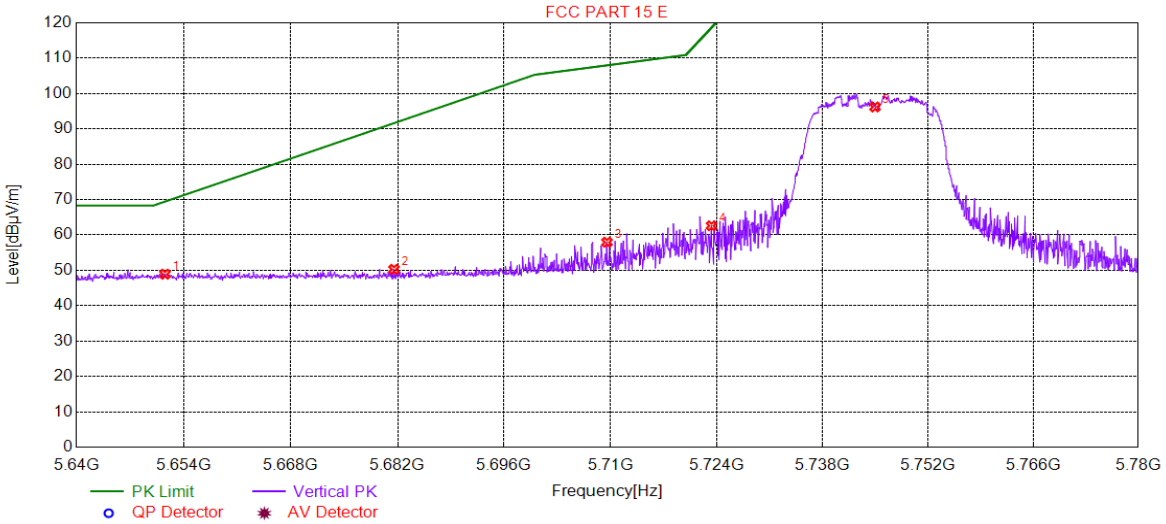
4.3.1.8 11N20_MIMO_140_ Horizontal



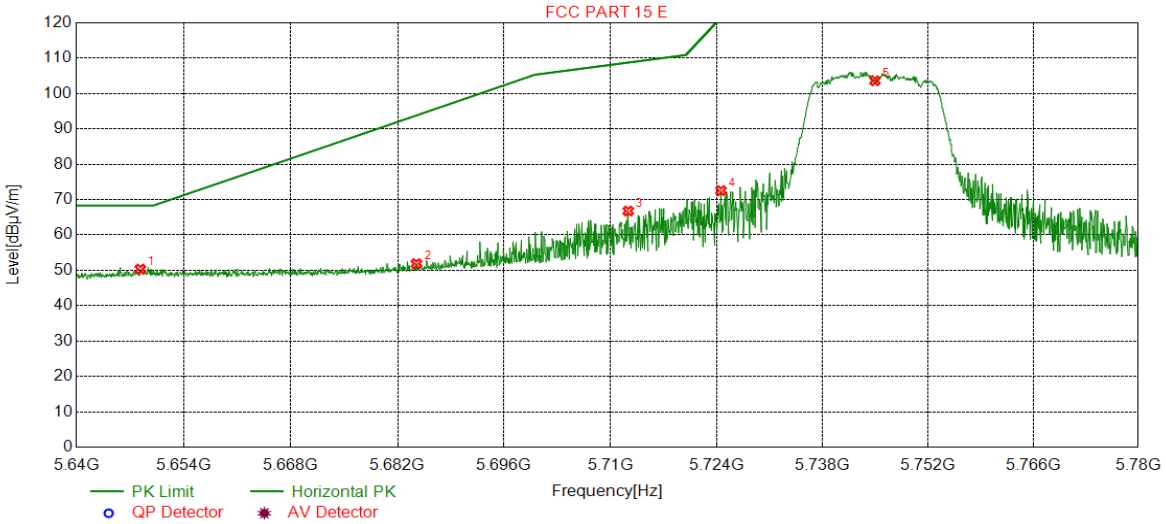
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5700.0000	102.52	19.17	---	---	150	12	PK	Horizontal
2	5726.3482	65.22	19.35	68.30	3.08	150	26	PK	Horizontal
3	5739.0295	63.82	19.43	68.30	4.48	150	17	PK	Horizontal
4	5770.3752	50.29	19.64	68.30	18.01	150	31	PK	Horizontal

4.3.1.9 11N20_MIMO_149_Vertical



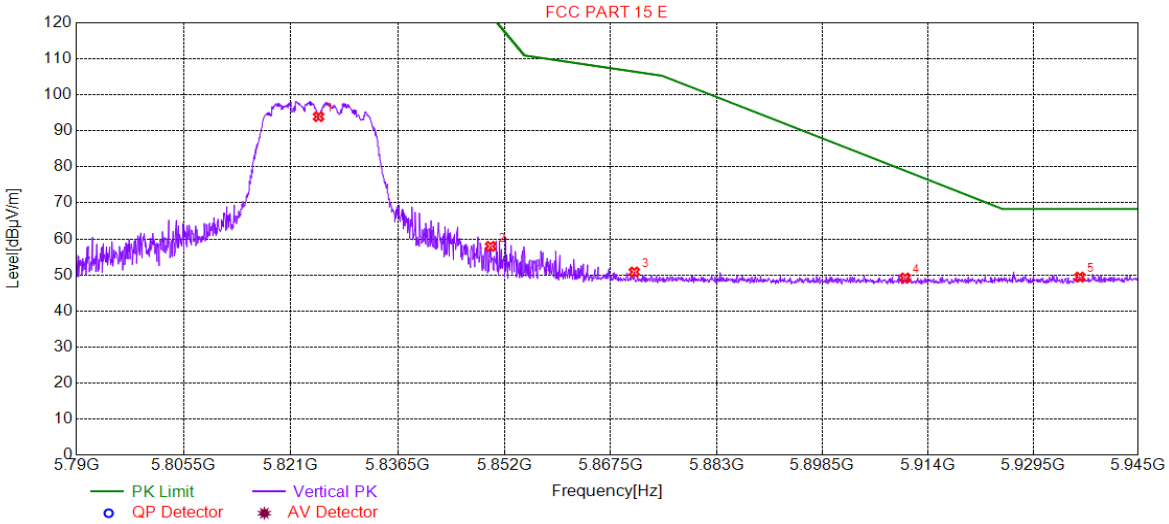
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5651.5558	48.94	18.79	69.45	20.51	150	47	PK	Vertical
2	5681.5308	50.29	19.03	91.63	41.34	150	89	PK	Vertical
3	5709.5448	57.96	19.23	107.97	50.01	150	16	PK	Vertical
4	5723.3417	62.60	19.33	118.52	55.92	150	163	PK	Vertical
5	5745.0000	96.20	19.47	---	---	150	149	PK	Vertical

4.3.1.10 11N20_MIMO_149_ Horizontal



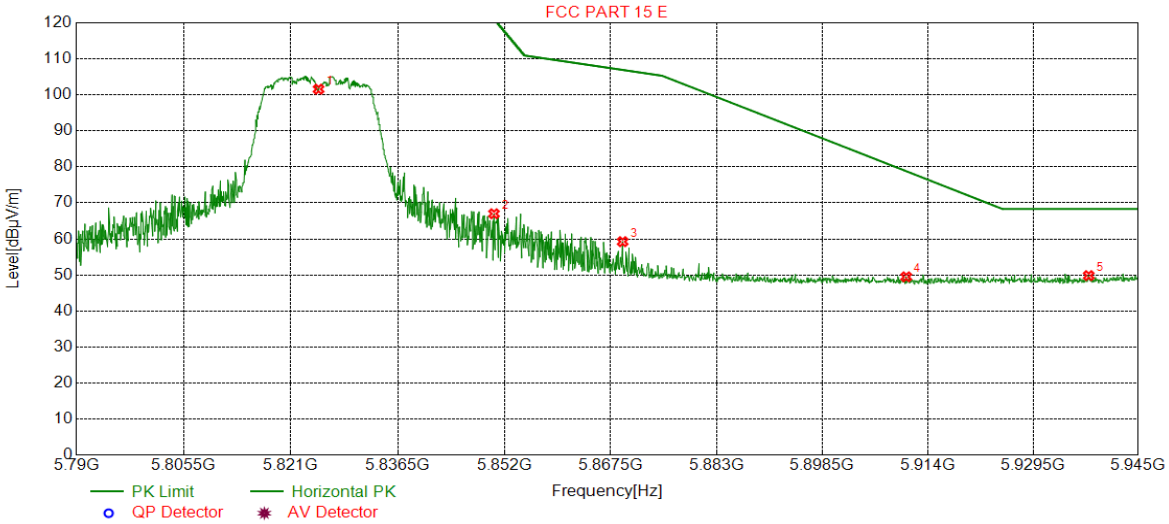
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5648.3342	50.35	18.77	68.30	17.95	150	344	PK	Horizontal
2	5684.4722	51.88	19.05	93.81	41.93	150	18	PK	Horizontal
3	5712.3462	66.78	19.25	108.76	41.98	150	37	PK	Horizontal
4	5724.6023	72.53	19.33	121.39	48.86	150	9	PK	Horizontal
5	5745.0000	103.62	19.47	---	---	150	13	PK	Horizontal

4.3.1.11 11N20_MIMO_165_Vertical



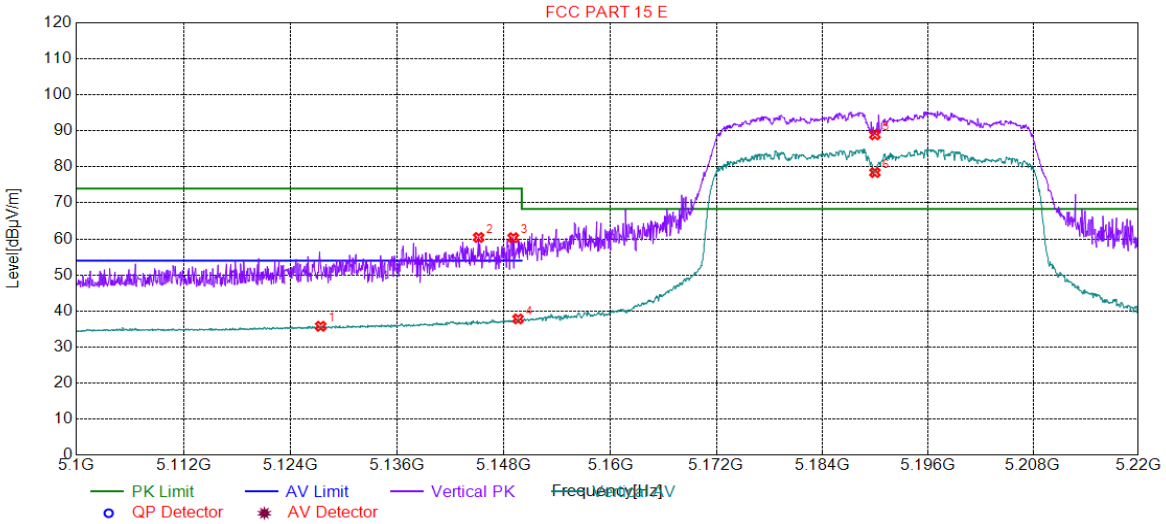
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5825.0000	93.95	19.79	---	---	150	139	PK	Vertical
2	5850.0000	57.95	19.74	122.27	64.32	150	126	PK	Vertical
3	5870.9505	50.83	19.70	106.43	55.60	150	149	PK	Vertical
4	5910.6503	49.18	19.73	78.92	29.74	150	222	PK	Vertical
5	5936.3932	49.41	19.95	68.30	18.89	150	241	PK	Vertical

4.3.1.12 11N20_MIMO_165_ Horizontal



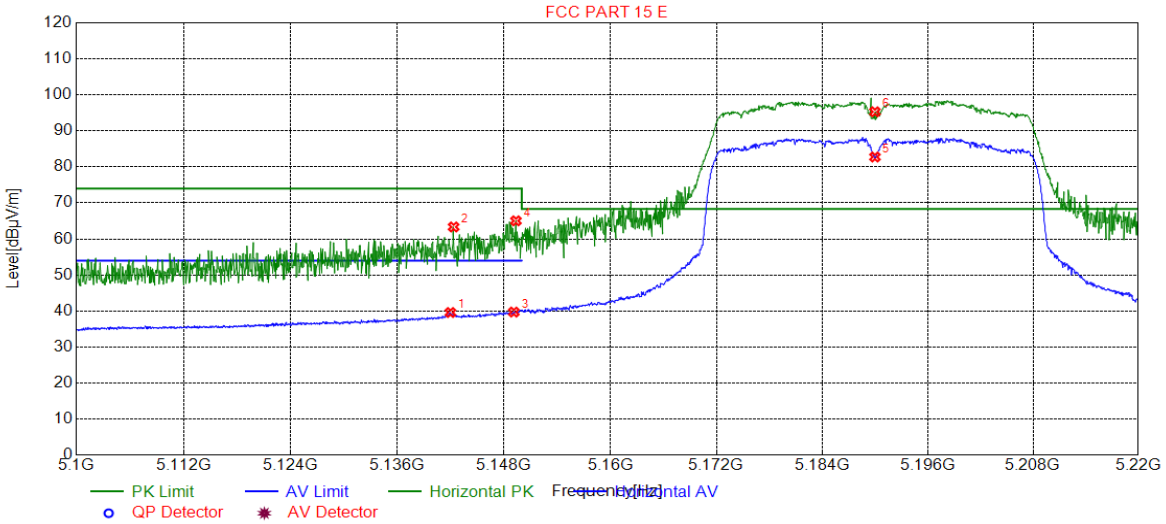
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5825.0000	101.57	19.79	---	---	150	23	PK	Horizontal
2	5850.4802	67.00	19.74	121.21	54.21	150	2	PK	Horizontal
3	5869.2446	59.24	19.70	106.91	47.67	150	9	PK	Horizontal
4	5910.8054	49.48	19.73	78.80	29.32	150	331	PK	Horizontal
5	5937.7114	49.82	19.96	68.30	18.48	150	331	PK	Horizontal

4.3.1.13 11N40_MIMO_38_Vertical



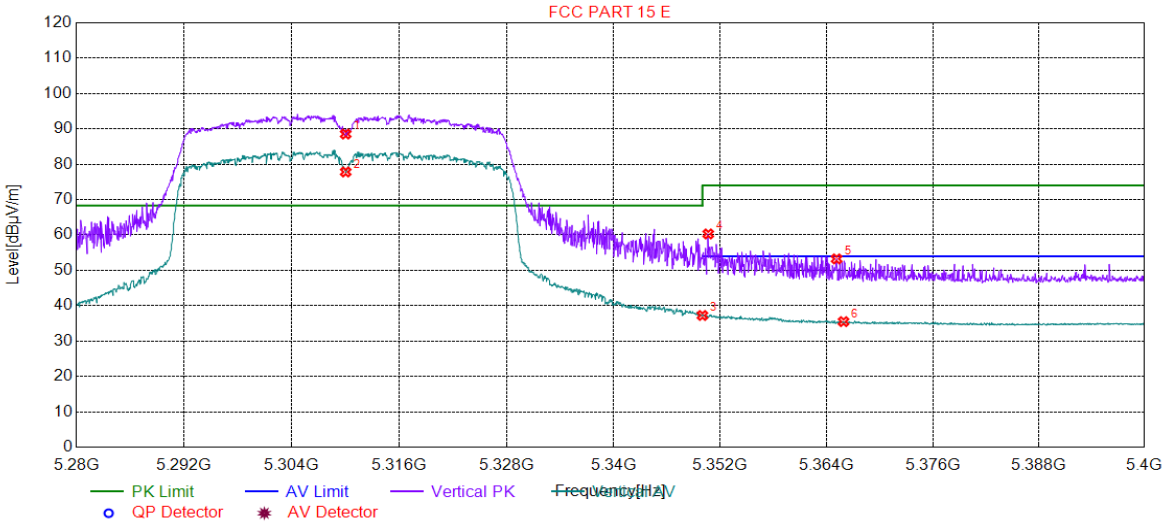
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5127.3737	35.76	17.86	54.00	18.24	150	159	AV	Vertical
2	5145.1426	60.41	17.90	74.00	13.59	150	159	PK	Vertical
3	5149.0445	60.34	17.91	74.00	13.66	150	159	PK	Vertical
4	5149.5848	37.80	17.91	54.00	16.20	150	159	AV	Vertical
5	5190.0000	88.92	18.01	---	---	150	72	PK	Vertical
6	5190.0000	78.44	18.01	---	---	150	236	AV	Vertical

4.3.1.14 11N40_MIMO_38_ Horizontal



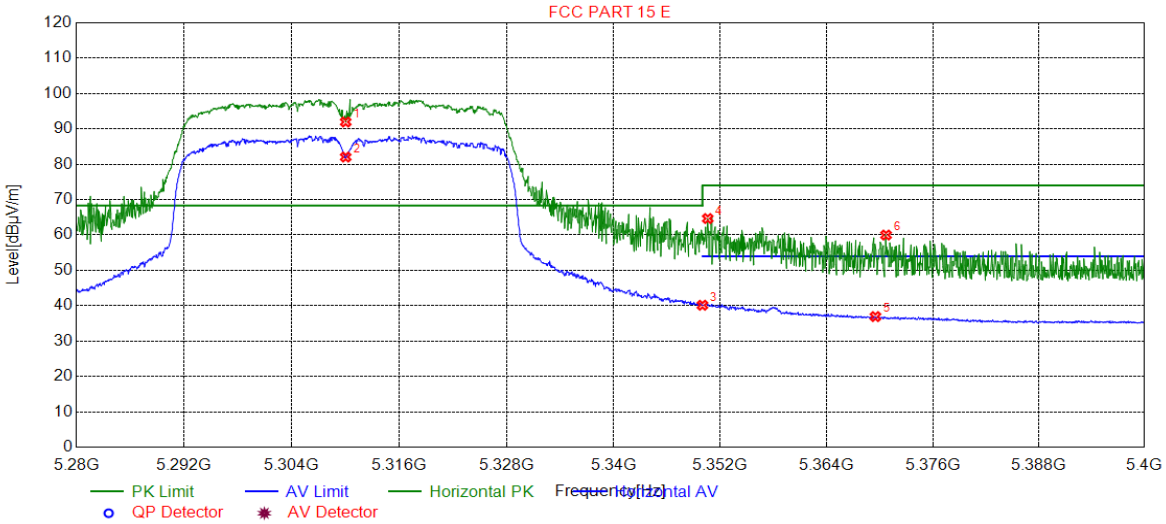
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5141.9610	39.58	17.90	54.00	14.42	150	75	AV	Horizontal
2	5142.3212	63.33	17.90	74.00	10.67	150	330	PK	Horizontal
3	5149.1046	39.70	17.91	54.00	14.30	150	102	AV	Horizontal
4	5149.3447	65.03	17.91	74.00	8.97	150	341	PK	Horizontal
5	5190.0000	82.75	18.01	---	---	150	96	AV	Horizontal
6	5190.0000	95.30	18.01	---	---	150	108	PK	Horizontal

4.3.1.15 11AC40_MIMO_62_ Vertical



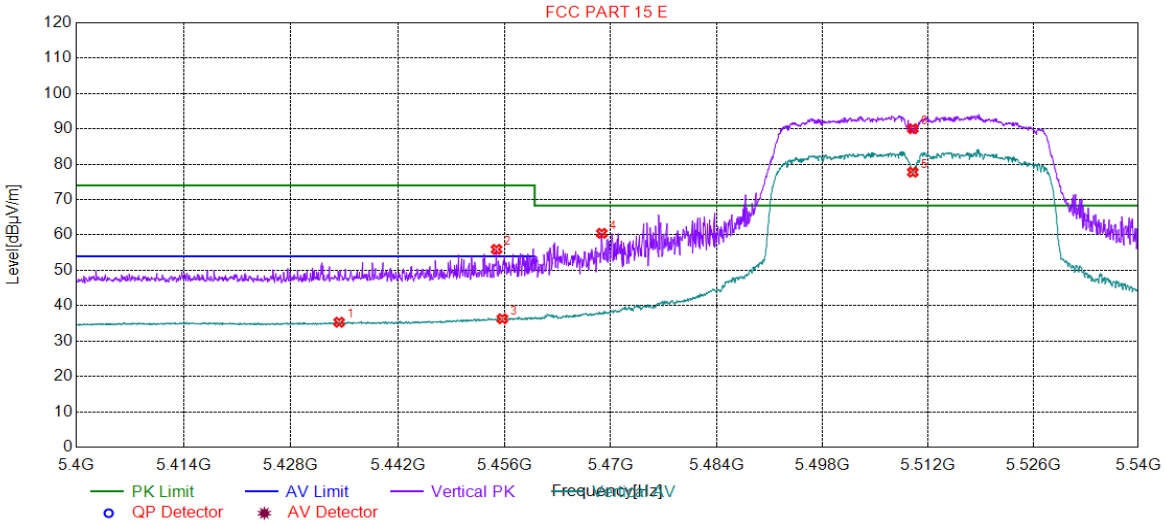
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5310.0000	88.54	18.29	---	---	150	70	PK	Vertical
2	5310.0000	77.82	18.29	---	---	150	70	AV	Vertical
3	5350.0000	37.24	18.44	54.00	16.76	150	77	AV	Vertical
4	5350.6553	60.30	18.44	74.00	13.70	150	160	PK	Vertical
5	5365.1226	53.24	18.50	74.00	20.76	150	183	PK	Vertical
6	5365.9030	35.51	18.50	54.00	18.49	150	183	AV	Vertical

4.3.1.16 11AC40_MIMO_62_ Horizontal



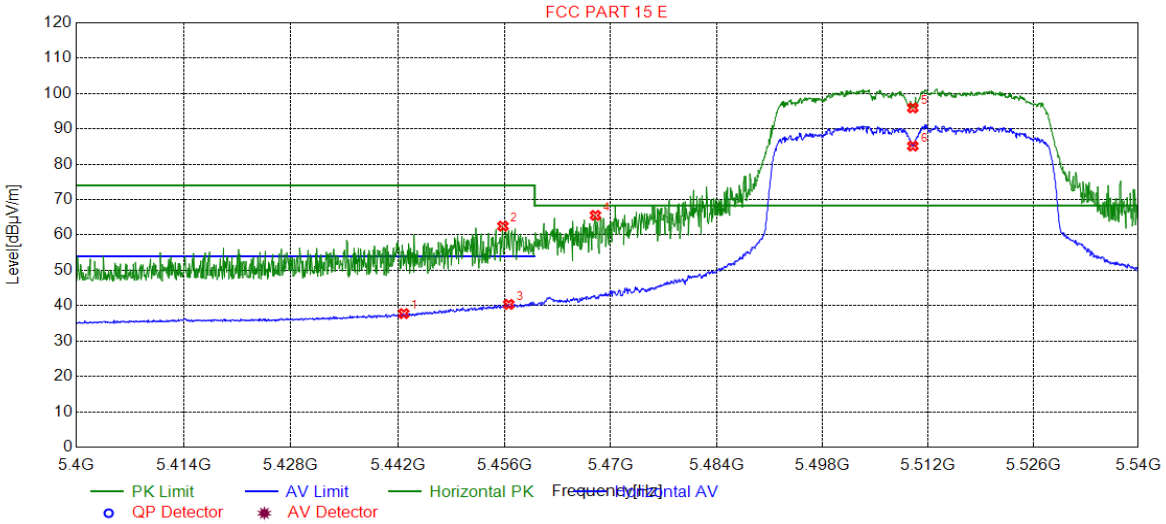
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5310.00	91.95	18.29	---	---	150	86	PK	Horizontal
2	5310.00	82.03	18.29	---	---	150	93	AV	Horizontal
3	5350.00	40.14	18.44	54.00	13.86	150	44	AV	Horizontal
4	5350.59	64.65	18.44	74.00	9.35	150	106	PK	Horizontal
5	5369.50	36.93	18.51	54.00	17.07	150	30	AV	Horizontal
6	5370.70	59.99	18.52	74.00	14.01	150	30	PK	Horizontal

4.3.1.17 11AC40_MIMO_102_ Vertical



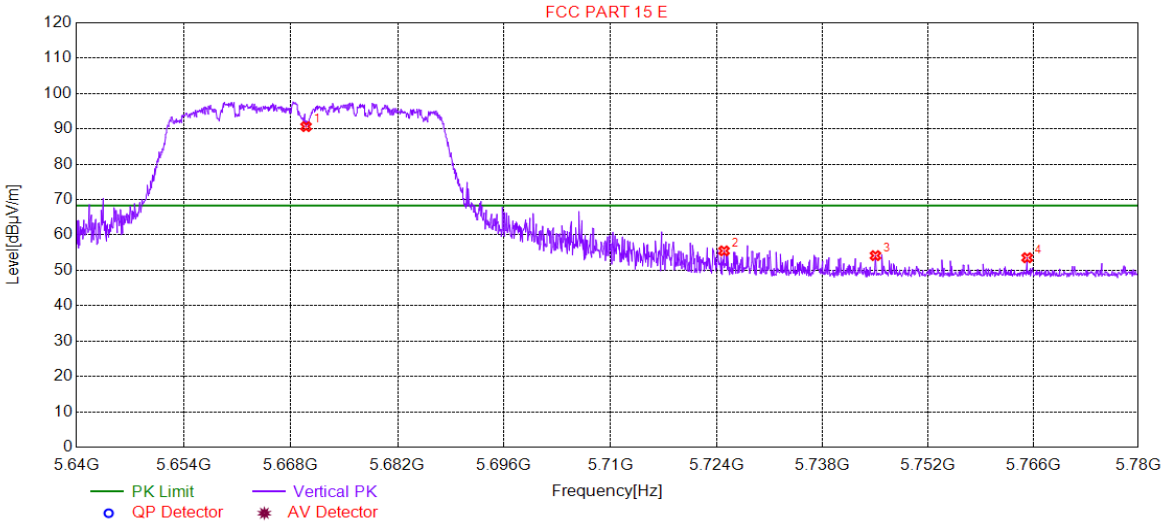
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5434.31	35.33	18.58	54.00	18.67	150	187	AV	Vertical
2	5454.97	55.93	18.54	74.00	18.07	150	71	PK	Vertical
3	5455.74	36.32	18.54	54.00	17.68	150	187	AV	Vertical
4	5468.84	60.48	18.52	68.30	7.82	150	207	PK	Vertical
5	5510.00	77.76	18.46	---	---	150	57	AV	Vertical
6	5510.00	90.04	18.46	---	---	150	180	PK	Vertical

4.3.1.18 11AC40_MIMO_102_ Horizontal



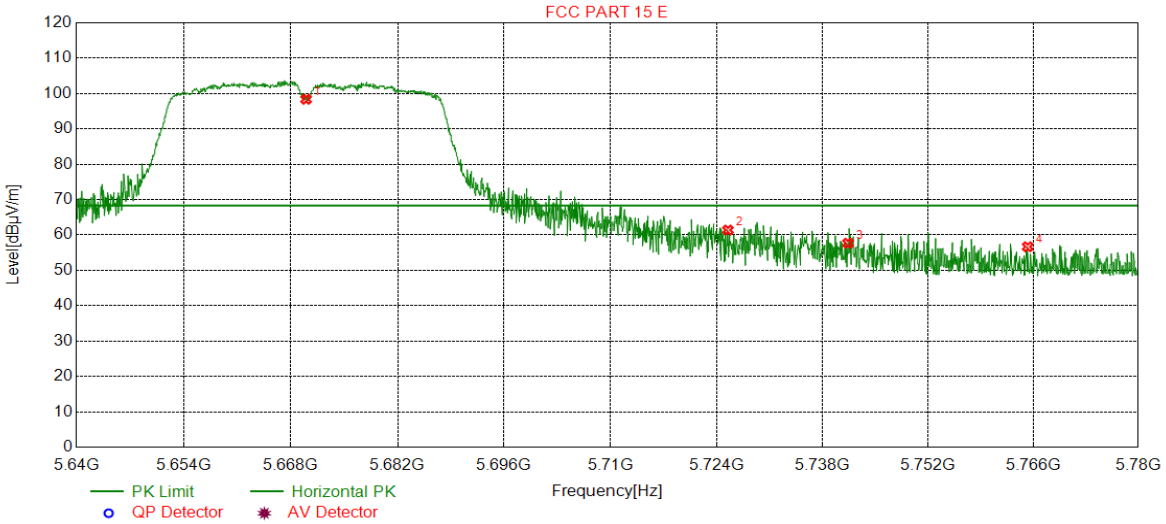
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5442.7914	37.77	18.56	54.00	16.23	150	38	AV	Horizontal
2	5455.8179	62.49	18.54	74.00	11.51	150	31	PK	Horizontal
3	5456.5883	40.38	18.54	54.00	13.62	150	38	AV	Horizontal
4	5468.0040	65.25	18.52	68.30	3.05	150	24	PK	Horizontal
5	5510.0000	95.93	18.46	---	---	150	17	PK	Horizontal
6	5510.0000	85.15	18.46	---	---	150	38	AV	Horizontal

4.3.1.19 11AC40_MIMO_134_ Vertical



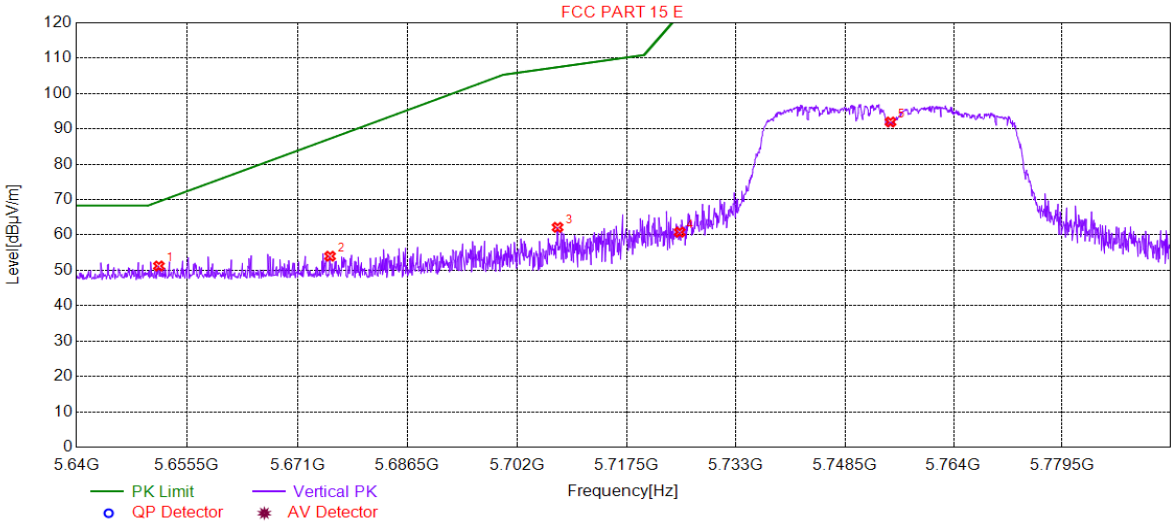
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5670.0000	90.65	18.94	---	---	150	152	PK	Vertical
2	5725.0000	55.51	19.34	68.30	12.79	150	152	PK	Vertical
3	5745.0525	54.17	19.47	68.30	14.13	150	139	PK	Vertical
4	5765.2226	53.56	19.61	68.30	14.74	150	152	PK	Vertical

4.3.1.20 11AC40_MIMO_134_ Horizontal



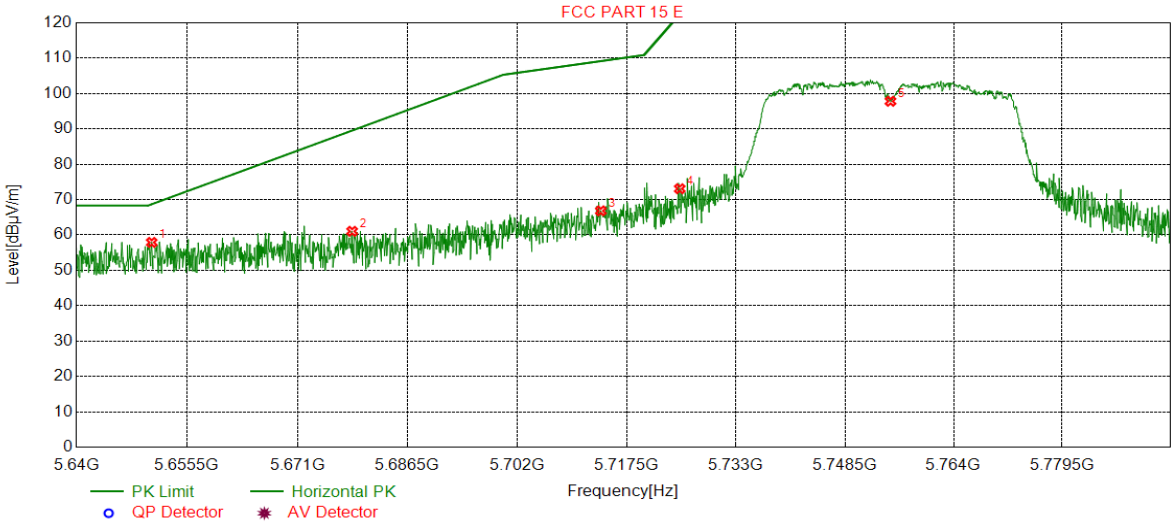
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5670.0000	98.37	18.94	---	---	150	32	PK	Horizontal
2	5725.5128	61.39	19.34	68.30	6.91	150	344	PK	Horizontal
3	5741.4107	57.69	19.45	68.30	10.61	150	2	PK	Horizontal
4	5765.2926	56.68	19.61	68.30	11.62	150	344	PK	Horizontal

4.3.1.21 11AC40_MIMO_151_ Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5651.5533	51.23	18.79	69.45	18.22	150	158	PK	Vertical
2	5675.5903	54.00	18.98	87.24	33.24	150	153	PK	Vertical
3	5707.6913	62.16	19.22	107.45	45.29	150	144	PK	Vertical
4	5725.0000	60.80	19.34	---	---	150	29	PK	Vertical
5	5755.0000	91.95	19.54	---	---	150	153	PK	Vertical

4.3.1.22 11AC40_MIMO_151_ Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5650.5453	57.91	18.78	68.70	10.79	150	344	PK	Horizontal
2	5678.6918	61.04	19.00	89.53	28.49	150	344	PK	Horizontal
3	5713.8169	66.82	19.26	109.17	42.35	150	344	PK	Horizontal
4	5725.0000	73.08	19.34	---	---	150	26	PK	Horizontal
5	5755.0000	97.81	19.54	---	---	150	22	PK	Horizontal

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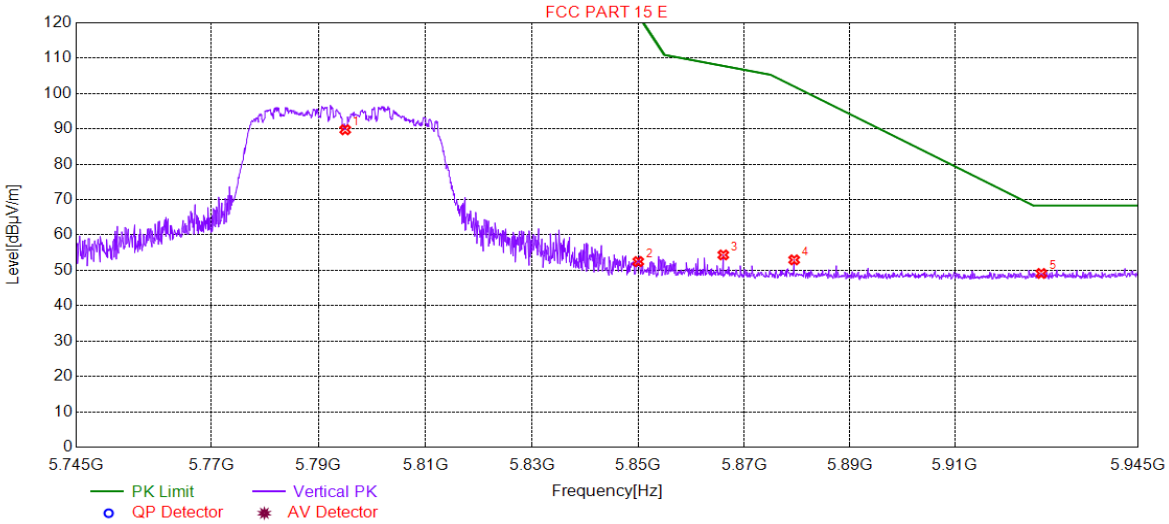
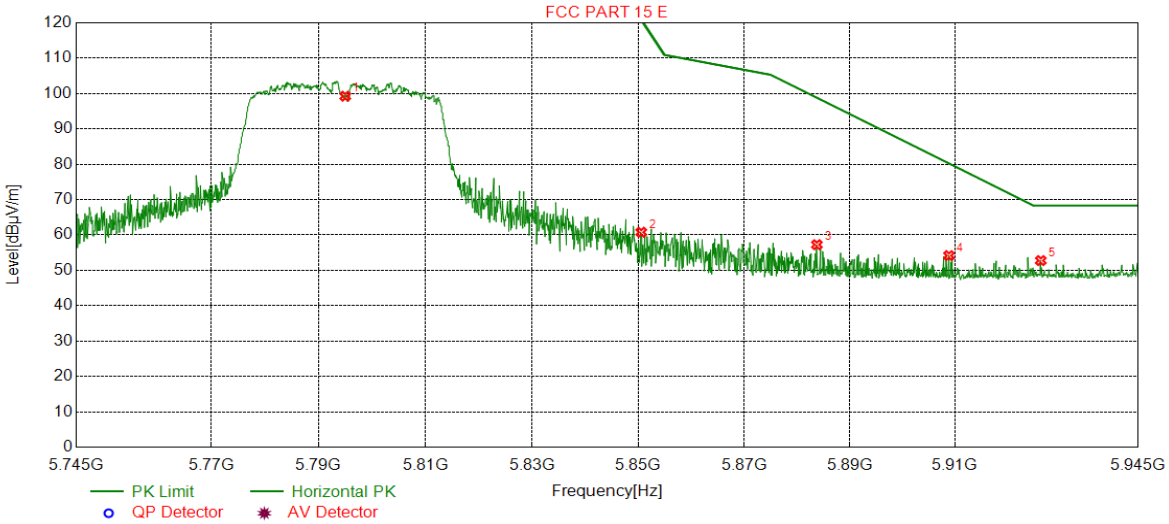
4.3.1.23 11AC40_MIMO_159_ Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5795.0000	89.75	19.81	---	---	150	191	PK	Vertical
2	5850.0000	52.48	19.74	122.18	69.70	150	121	PK	Vertical
3	5866.0605	54.36	19.71	107.80	53.44	150	149	PK	Vertical
4	5879.4672	52.96	19.68	101.99	49.03	150	149	PK	Vertical
5	5926.4907	49.13	19.86	68.30	19.17	150	256	PK	Vertical

4.3.1.24 11AC40_MIMO_159_ Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5795.0000	99.25	19.81	---	---	150	17	PK	Horizontal
2	5850.5528	60.78	19.74	121.04	60.26	150	13	PK	Horizontal
3	5883.7694	57.26	19.67	98.81	41.55	150	26	PK	Horizontal
4	5908.8819	54.18	19.71	80.23	26.05	150	50	PK	Horizontal
5	5926.3907	52.77	19.86	68.30	15.53	150	17	PK	Horizontal

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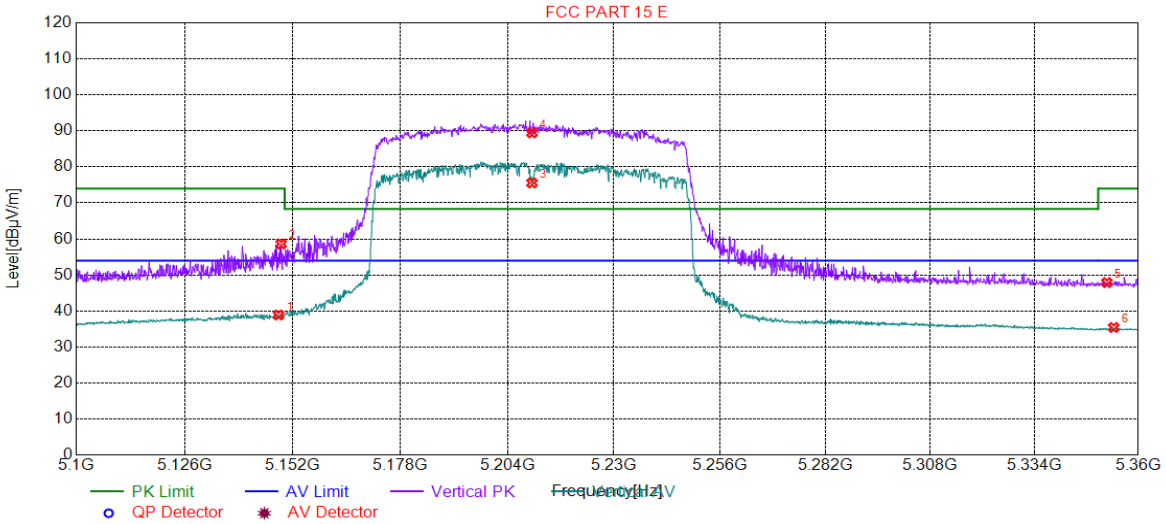
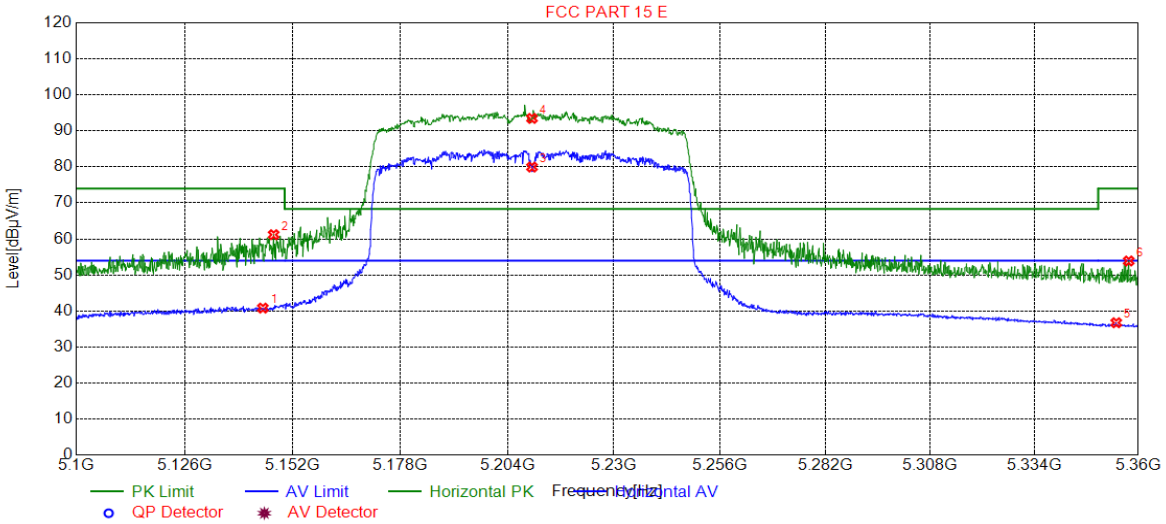
4.3.1.25 11AC80_MIMO_42_ Vertical



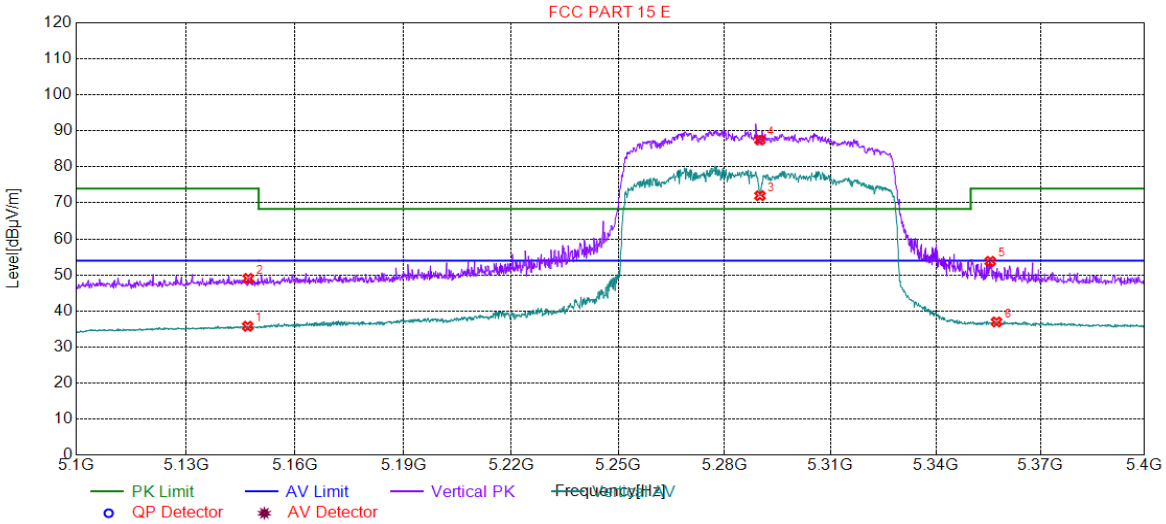
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5148.5143	38.89	17.91	54.00	15.11	150	70	AV	Vertical
2	5149.1646	58.61	17.91	74.00	15.39	150	181	PK	Vertical
3	5210.0000	75.55	18.05	---	---	150	241	AV	Vertical
4	5210.0000	89.46	18.05	---	---	150	98	PK	Vertical
5	5352.1961	47.90	18.45	74.00	26.10	150	351	PK	Vertical
6	5353.8869	35.43	18.45	54.00	18.57	150	255	AV	Vertical

4.3.1.26 11AC80_MIMO_42_ Horizontal



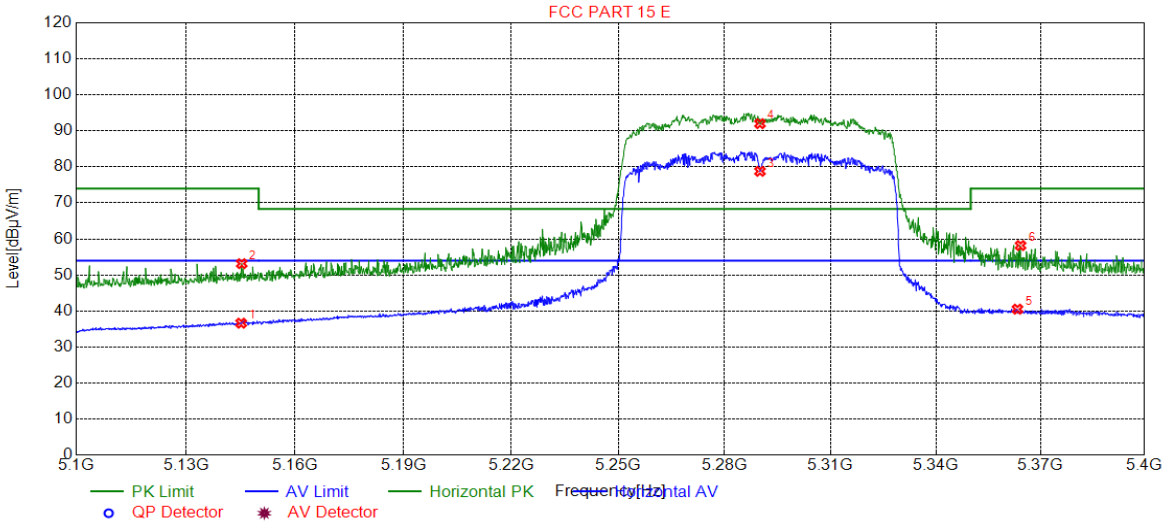
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5144.7424	40.81	17.90	54.00	13.19	150	338	AV	Horizontal
2	5147.3437	61.18	17.91	74.00	12.82	150	331	PK	Horizontal
3	5210.0000	79.95	18.05	---	---	150	104	AV	Horizontal
4	5210.0000	93.46	18.05	---	---	150	111	PK	Horizontal
5	5354.5373	36.74	18.46	54.00	17.26	150	36	AV	Horizontal
6	5357.6588	53.88	18.47	74.00	20.12	150	29	PK	Horizontal

4.3.1.27 11AC80_MIMO_58_ Vertical



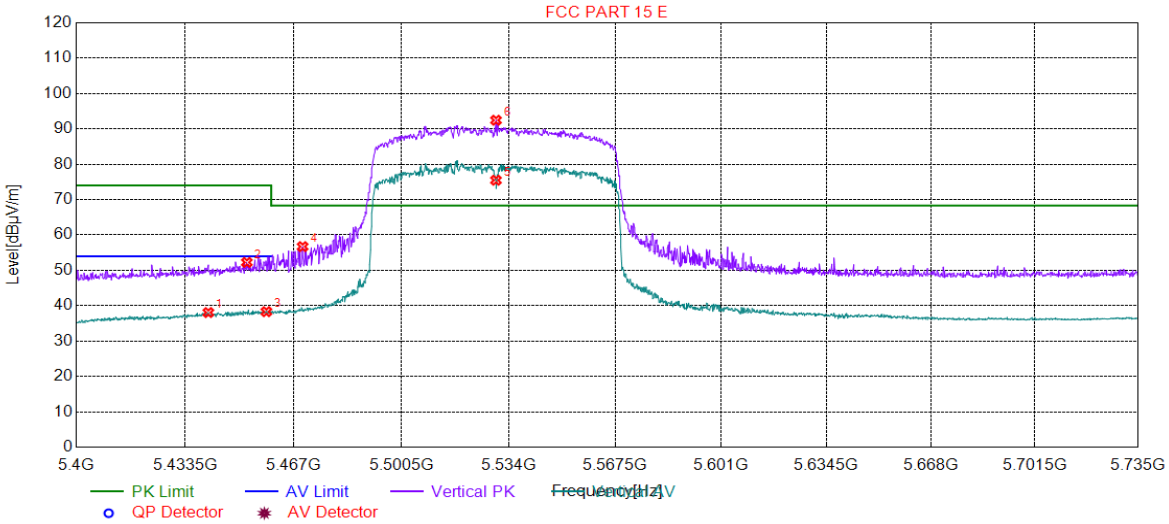
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5146.9735	35.76	17.91	54.00	18.24	150	57	AV	Vertical
2	5147.1236	49.04	17.91	74.00	24.96	150	64	PK	Vertical
3	5290.0000	72.00	18.23	---	---	150	147	AV	Vertical
4	5290.0000	87.48	18.23	---	---	150	64	PK	Vertical
5	5355.5778	53.78	18.46	74.00	20.22	150	195	PK	Vertical
6	5357.3787	36.96	18.47	54.00	17.04	150	71	AV	Vertical

4.3.1.28 11AC80_MIMO_58_ Horizontal



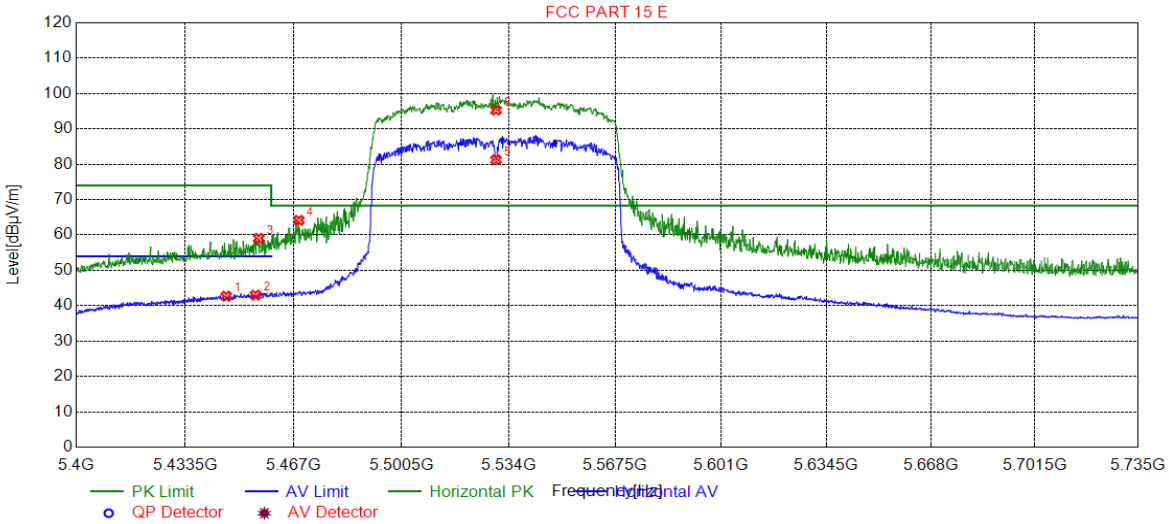
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5145.1726	36.62	17.90	54.00	17.38	150	331	AV	Horizontal
2	5145.3227	53.14	17.90	74.00	20.86	150	338	PK	Horizontal
3	5290.0000	78.77	18.23	---	---	150	97	AV	Horizontal
4	5290.0000	92.00	18.23	---	---	150	20	PK	Horizontal
5	5363.3817	40.51	18.49	54.00	13.49	150	104	AV	Horizontal
6	5364.2821	58.17	18.49	74.00	15.83	150	97	PK	Horizontal

4.3.1.29 11AC80_MIMO_106_ Vertical



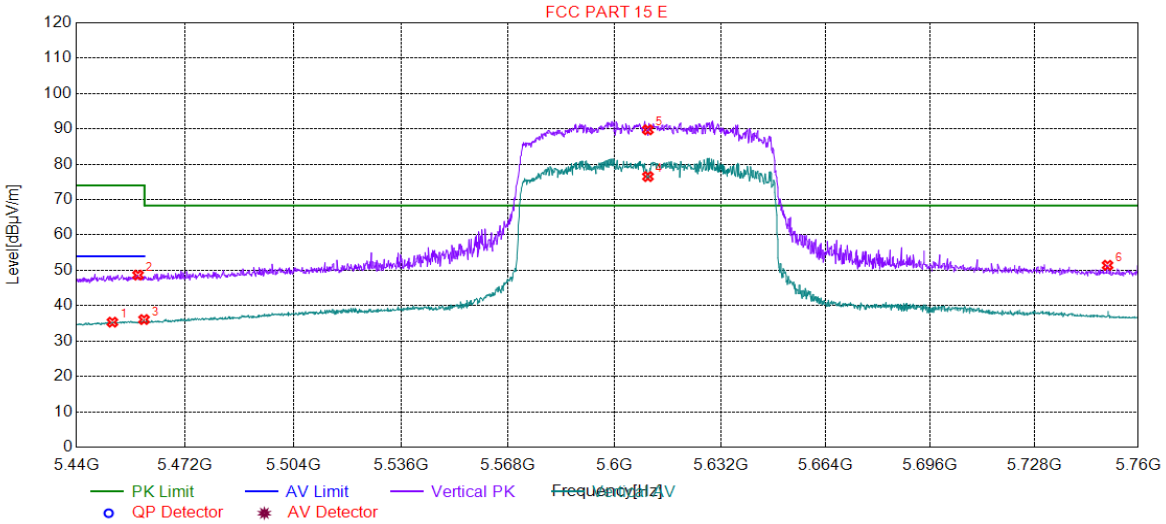
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5440.5553	38.07	18.57	54.00	15.93	150	180	AV	Vertical
2	5452.4537	52.25	18.55	74.00	21.75	150	16	PK	Vertical
3	5458.4867	38.32	18.54	54.00	15.68	150	63	AV	Vertical
4	5469.7149	56.71	18.52	68.30	11.59	150	180	PK	Vertical
5	5530.0000	75.48	18.45	---	---	150	194	AV	Vertical
6	5530.0000	92.45	18.45	---	---	150	194	PK	Vertical

4.3.1.30 11AC80_MIMO_106_ Horizontal



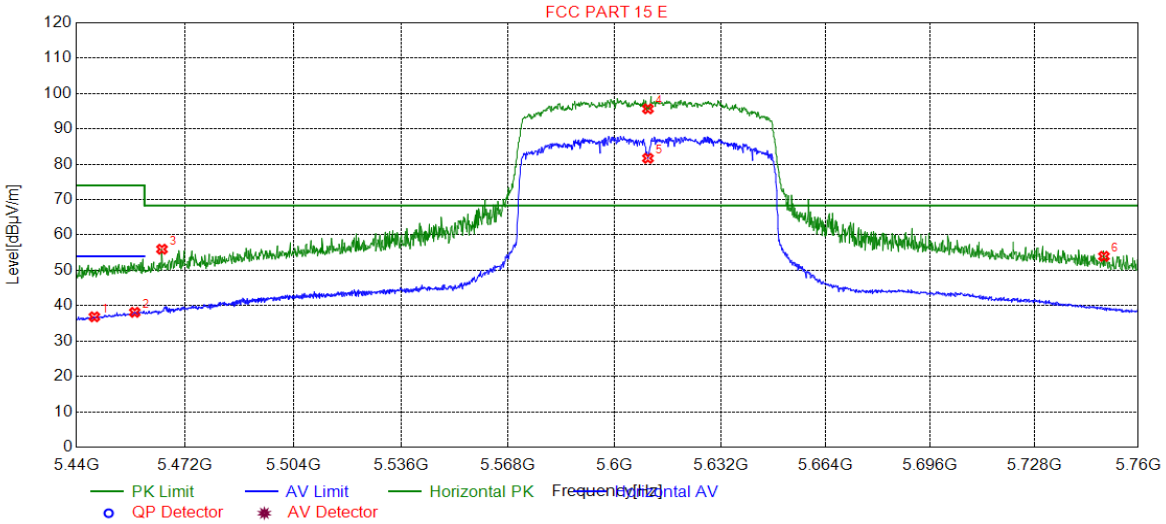
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5446.0855	42.71	18.56	54.00	11.29	150	42	AV	Horizontal
2	5455.1351	43.00	18.54	54.00	11.00	150	42	PK	Horizontal
3	5456.1406	59.07	18.54	74.00	14.93	150	35	AV	Horizontal
4	5468.5418	64.16	18.52	68.30	4.14	150	89	PK	Horizontal
5	5530.0000	81.25	18.45	---	---	150	29	AV	Horizontal
6	5530.0000	95.30	18.45	---	---	150	35	PK	Horizontal

4.3.1.31 11AC80_MIMO_122_ Vertical



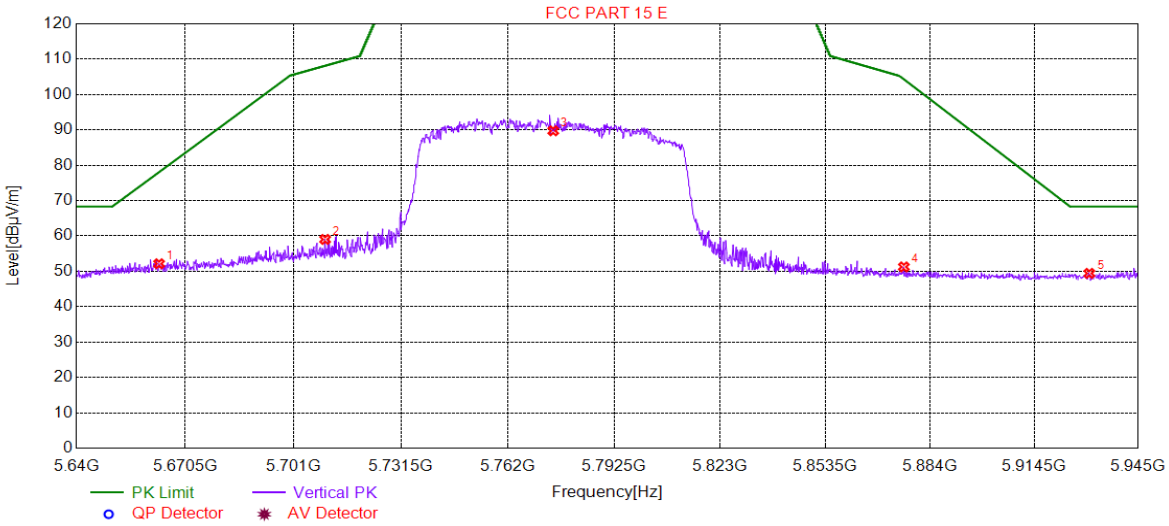
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5450.5653	35.35	18.55	54.00	18.65	150	180	AV	Vertical
2	5458.0890	48.66	18.54	74.00	25.34	150	201	PK	Vertical
3	5459.8499	36.10	18.53	54.00	17.90	150	64	AV	Vertical
4	5610.0000	76.52	18.47	---	---	150	153	AV	Vertical
5	5610.0000	89.74	18.47	---	---	150	180	AV	Vertical
6	5750.5553	51.44	19.51	68.30	16.86	150	29	PK	Vertical

4.3.1.32 11AC80_MIMO_122_ Horizontal



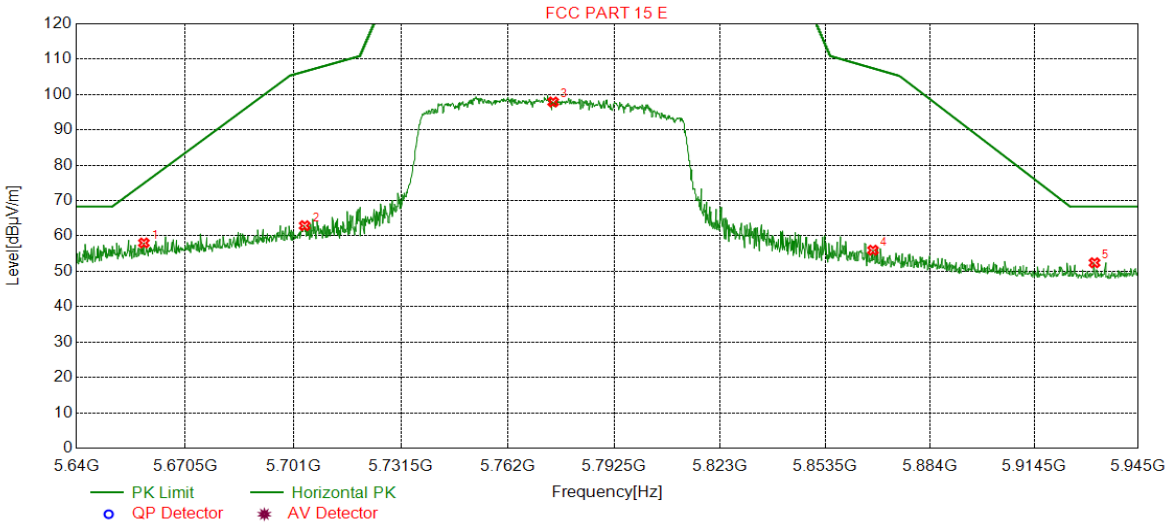
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5445.2826	36.86	18.56	54.00	17.14	150	42	AV	Horizontal
2	5457.1286	38.13	18.54	54.00	15.87	150	42	AV	Horizontal
3	5465.1326	55.98	18.53	68.30	12.32	150	42	PK	Horizontal
4	5610.0000	95.68	18.47	---	---	150	2	PK	Horizontal
5	5610.0000	81.68	18.47	---	---	150	8	AV	Horizontal
6	5749.4347	53.96	19.50	68.30	14.34	150	344	PK	Horizontal

4.3.1.33 11AC80_MIMO_155_ Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5663.1916	52.15	18.88	78.06	25.91	150	167	PK	Vertical
2	5710.0325	59.04	19.24	108.11	49.07	150	154	PK	Vertical
3	5775.0000	89.74	19.67	---	---	150	260	PK	Vertical
4	5876.3407	51.26	19.69	104.31	53.05	150	154	PK	Vertical
5	5930.6578	49.43	19.90	68.30	18.87	150	213	PK	Vertical

4.3.1.34 11AC80_MIMO_155_ Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5658.9195	58.03	18.85	74.90	16.87	150	26	PK	Horizontal
2	5704.2346	62.91	19.20	106.49	43.58	150	1	PK	Horizontal
3	5775.0000	97.89	19.67	---	---	150	22	PK	Horizontal
4	5867.3387	55.98	19.71	107.45	51.47	150	22	PK	Horizontal
5	5932.1836	52.43	19.91	68.30	15.87	150	81	PK	Horizontal

Remark:
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
All modes have been tested, but only the worst case data displayed in this report.

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4.4 Dynamic Frequency Selection

4.4.1 DFS Overview

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required
Additional requirements for devices with multiple bandwidth modes	**Master Device or Client with Radar Detection**	**Client Without Radar Detection**
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required
Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		

4.4.2 DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. **Note 2:** Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. **Note3:** EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.	

4.4.3 Response Requirements

Table 4: DFS Response Requirement Values

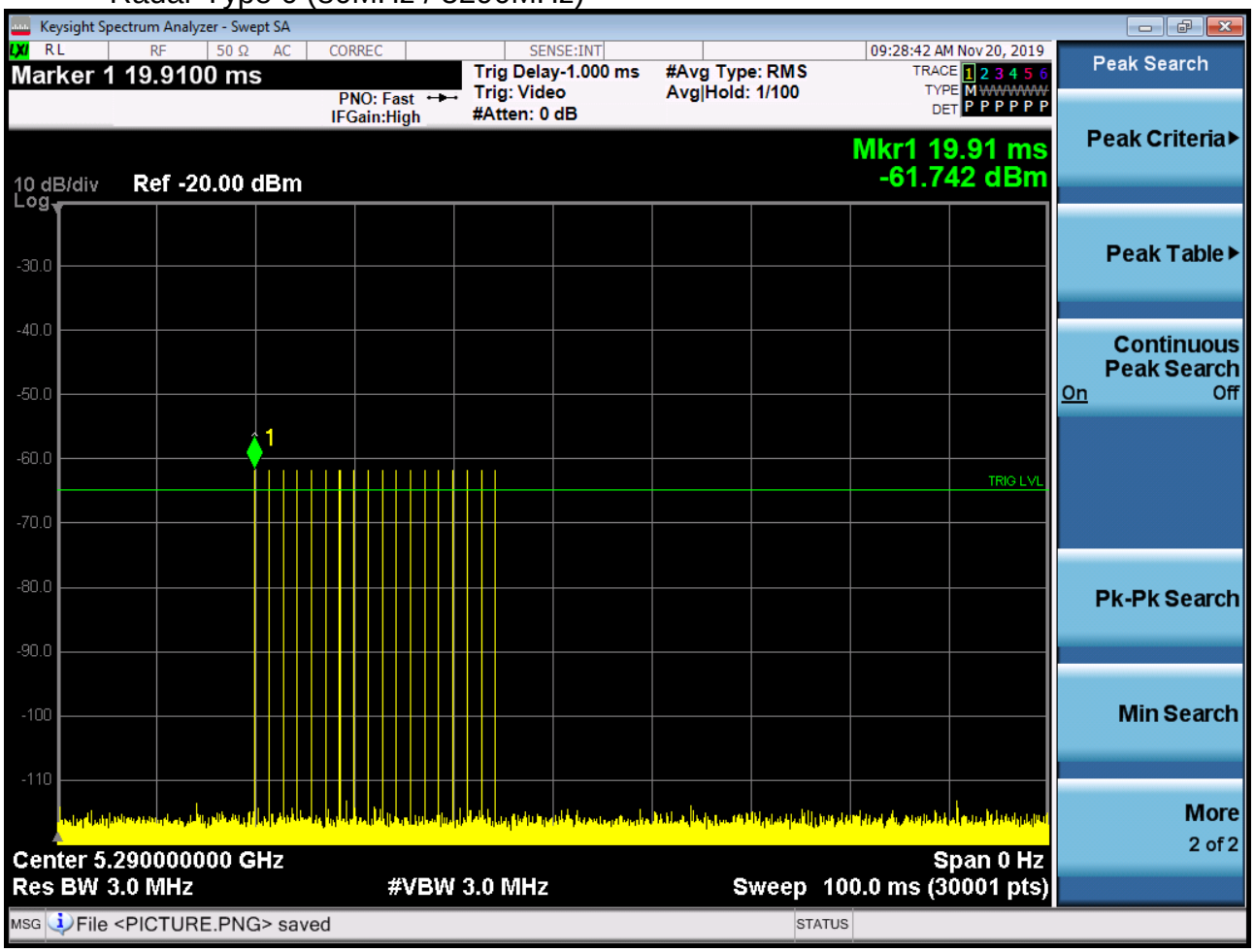
Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.
Note 1: *Channel Move Time* and the *Channel Closing Transmission Time* should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. **Note 2:** The *Channel Closing Transmission Time* is comprised of 200 milliseconds starting at the beginning of the *Channel Move Time* plus any additional intermittent control signals required to facilitate a *Channel* move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions. **Note 3:** During the *U-NII Detection Bandwidth* detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.	

4.4.4 Test plots

Remark: Only the data of Ant.1 is recorded.

4.4.4.1 Radar Waveform Calibration Result

Radar Type 0 (80MHz / 5290MHz)

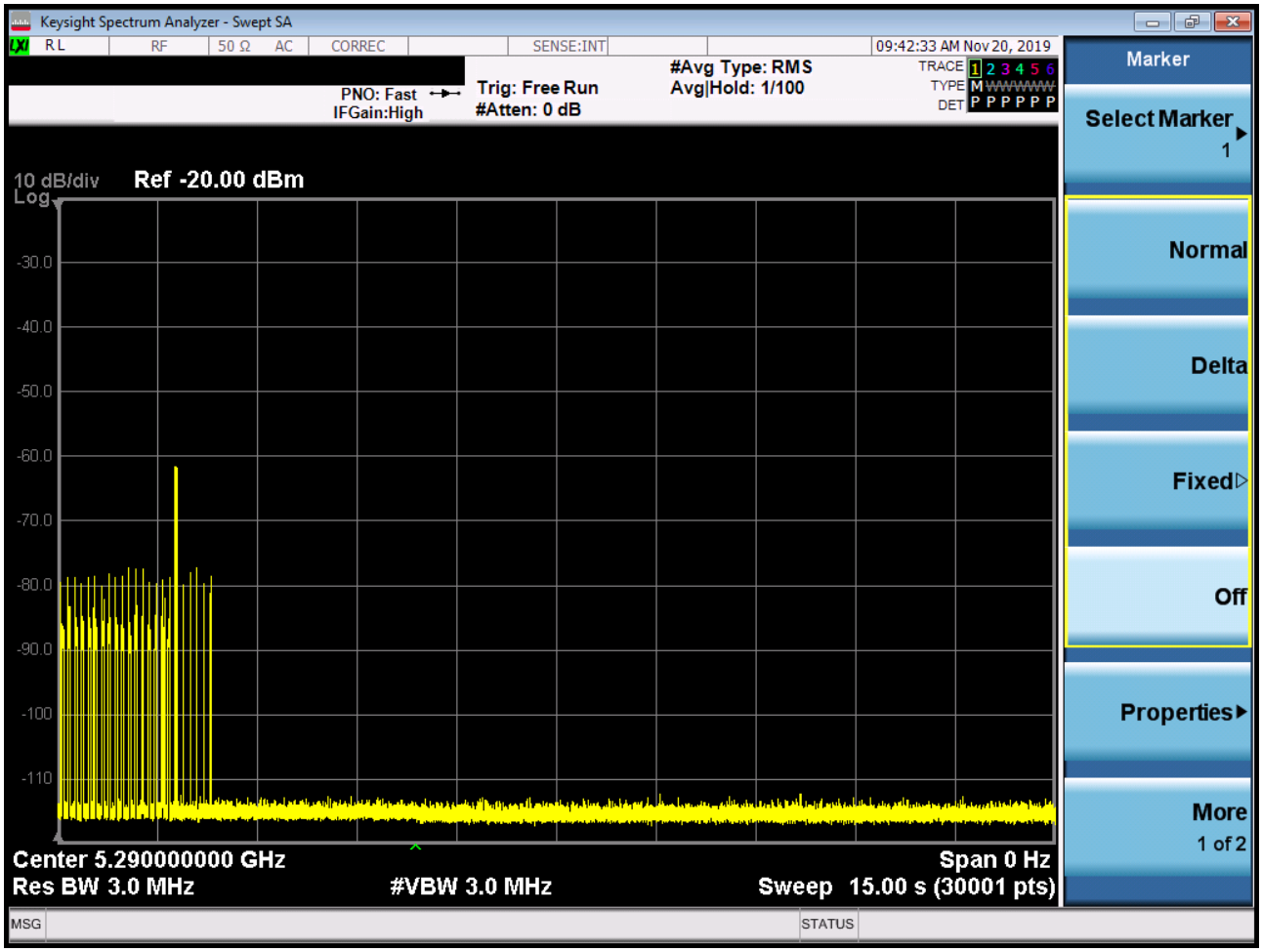


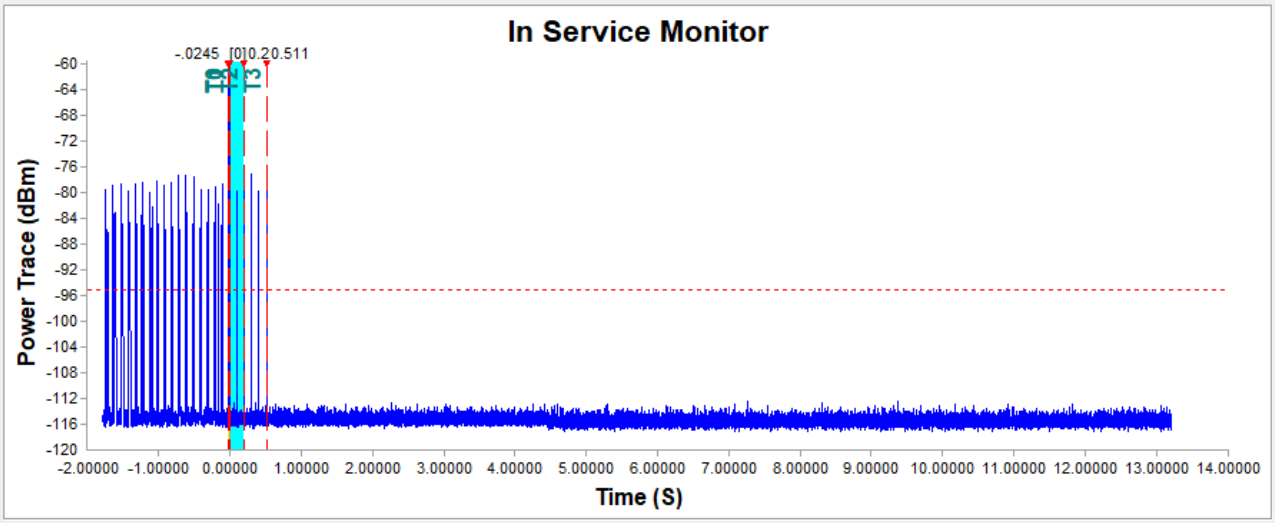
4.4.5 Test Data:

BW/Channel	Test Item	Test Result	Limit	Results
80MHz / 5290MHz	Channel Move Time	0.511s	＜10s	Pass
	Channel Closing Transmission Time	3.499ms	＜60ms	Pass

4.4.5.1 Test plots

4.4.5.1.1 Test Bandwidth/Channel= 80MHz / 5290MHz





Time Index Info

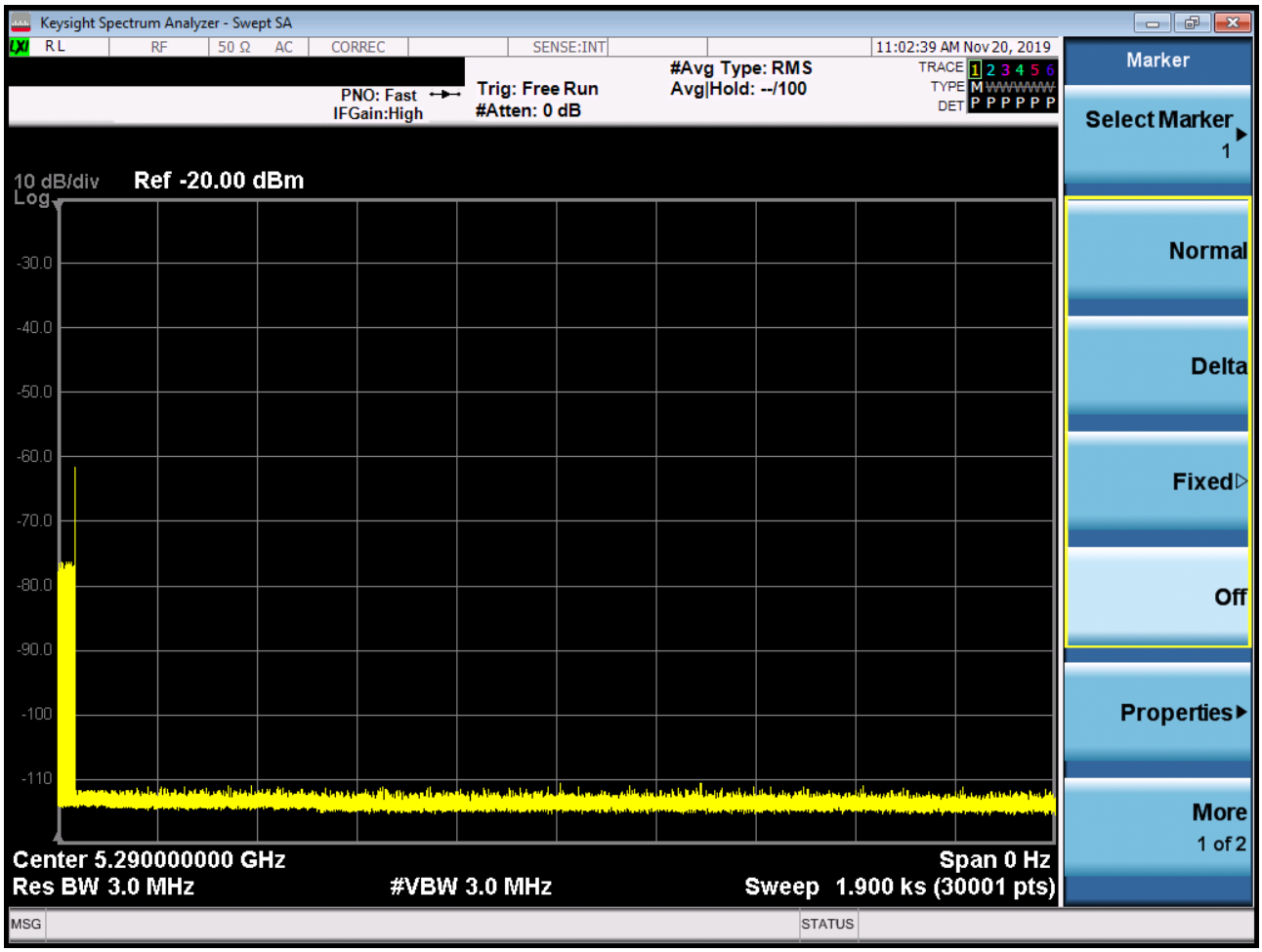
T0 : -0.0245 S (Radar Injection Start)
T1 : 0.0000 S (Radar Injection Stop)
T2 : 0.2000 S (200msec Interval)
T3 : 0.5110 S (Channel Move Time)

Time Per Bin:0.4999833

T2~T3 Bins Over Threshold:
= 7 Bins

Channel Move Time: 0.510983 S

Channel Close Time: 0.0034999 S



5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.75dB
2	RF power density, conducted	±2.84dB
3	Spurious emissions, conducted	±0.75dB
4	Radiated Spurious emission test	±4.5dB (30MHz-1GHz)
		±4.8dB (1GHz-25GHz)
5	Conduct emission test	±3.12 dB(9KHz- 30MHz)
6	Temperature test	±1°C
7	Humidity test	±3%
8	DC and low frequency voltages	±0.5%

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6 Equipment List

Conducted Emission					
Test Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal. Date (yyyy-mm-dd)**	**Cal. Due date (yyyy-mm-dd)**
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2017/5/10	2020/5/9
LISN	Rohde & Schwarz	ENV216	SEM007-01	2019/7/14	2020/7/14
LISN	ETS-LINDGREN	Feb-16	SEM007-02	2019/3/2	2020/3/1
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2019/6/12	2020/6/11
8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T8-02	EMC0120	2019/2/11	2020/2/10
4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T4-02	EMC0121	2019/2/11	2020/2/10
2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	EMC0122	2019/2/11	2020/2/10
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2019/3/2	2020/3/1

RF conducted test					
Test Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal. Date (yyyy-mm-dd)**	**Cal. Due date (yyyy-mm-dd)**
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2019/7/14	2020/7/14
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2019/3/2	2020/3/1
Coaxial Cable	SGS	N/A	SEM031-01	2019/6/12	2020/6/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019/7/14	2020/7/14
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2018/11/27	2019/11/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019/7/14	2020/7/14
Master Device	Linksys pte.Ltd	WRT32X	FCC ID:Q87-WRT3200ACM IC ID:3839A-WRT3200ACM	N/A	N/A

RE in Chamber					
Test Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal. Date (yyyy-mm-dd)**	**Cal. Due date (yyyy-mm-dd)**
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018/3/31	2021/3/30
EMI Test Receiver (9k-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2019/3/2	2020/3/1
Trilog-Broadband Antenna (25M-2GHz)	Schwarzbeck	VULB9168	SEM003-18	2019/6/12	2020/6/11
Pre-amplifier (9k-1GHz)	Sonoma Instrument Co	310N	SEM005-03	2019/4/12	2020/4/11
Loop Antenna (9kHz-30MHz)	ETS-Lindgren	6502	SEM003-08	2017/8/22	2020/8/21
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2019/6/12	2020/6/11

RE in Chamber					
Test Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal. Date (yyyy-mm-dd)**	**Cal. Due date (yyyy-mm-dd)**
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018/3/13	2021/3/12
Spectrum Analyzer (20Hz-43GHz)	Rohde & Schwarz	FSU43	SEM004-08	2019/3/2	2020/3/1
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017/6/27	2020/6/26
Horn Antenna (800MHz-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/413	2021/412
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017/10/17	2020/10/16
Amplifier(0.1-1300MHz)	HP	8447D	SEM005-02	2019/7/14	2020/7/14
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2019/7/14	2020/7/14
Pre-Amplifier(0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	EMC2063	2019/10/20	2020/10/19
Pre-amplifier(26-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2019/3/2	2020/3/1
Band filter	N/A	N/A	N/A	N/A	N/A
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2019/6/12	2020/6/11

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7 Photographs - EUT Test Setup Details

Refer to Appendix A - Photographs of Set-Up for ZR/2019/90020.

The End

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