

RF TEST REPORT

For

FIBRAIN Sp. z o.o.

Product Name: HGU

Test Model(s): HL-4BX3V-F

Report Reference No. : POCE240305009RL002

FCC ID : 2AWIZHL4BX3VF

Applicant's Name : FIBRAIN Sp. z o.o..

Address : Poland, Zaczernie 190F, 36-062

Testing Laboratory : Shenzhen DACE Testing Technology Co., Ltd.

Address : 101-102 Building H5 & 1/F., Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, Guangdong, China

Test Specification Standard : 47 CFR Part 15E

Date of Receipt : March 11, 2024

Date of Test : March 11, 2024 to April 10, 2024

Data of Issue : April 10, 2024

Result : Pass

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Revision History Of Report

Version	Description	REPORT No.	Issue Date
V1.0	Original	POCE240305009RL002	April 10, 2024

NOTE1:

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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1 TEST SUMMARY

1.1 Test Standards

The tests were performed according to following standards:

47 CFR Part 15E: Unlicensed National Information Infrastructure Devices

1.2 Summary of Test Result

Item	Method	Requirement	Result
Antenna requirement	/	Part 15.203	Pass
Conducted Emission at AC power line	ANSI C63.10-2013 section 6.2	47 CFR Part 15.207(a)	Pass
Duty Cycle	ANSI C63.10-2013 section 12.2 (b)	/	Pass
Maximum conducted output power	ANSI C63.10-2013, section 12.3	47 CFR Part 15.407(a)(1) 47 CFR Part 15.407(a)(2) 47 CFR Part 15.407(a)(3)(i)	Pass
Power spectral density	ANSI C63.10-2013, section 12.5	47 CFR Part 15.407(a)(1) 47 CFR Part 15.407(a)(2) 47 CFR Part 15.407(a)(3)(i)	Pass
Emission bandwidth and occupied bandwidth	ANSI C63.10-2013, section 6.9 & 12.4 KDB 789033 D02, Clause C.2	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use. 47 CFR Part 15.407(e)	Pass
Band edge emissions (Radiated)	ANSI C63.10-2013, section 12.7.4, 12.7.6, 12.7.7	47 CFR Part 15.407(b)(1) 47 CFR Part 15.407(b)(2) 47 CFR Part 15.407(b)(3) 47 CFR Part 15.407(b)(4) 47 CFR Part 15.407(b)(10)	Pass
Undesirable emission limits (below 1GHz)	ANSI C63.10-2013, section 12.7.4, 12.7.5	47 CFR Part 15.407(b)(9)	Pass
Undesirable emission limits (above 1GHz)	ANSI C63.10-2013, section 12.7.4, 12.7.6, 12.7.7	47 CFR Part 15.407(b)(1) 47 CFR Part 15.407(b)(2) 47 CFR Part 15.407(b)(3) 47 CFR Part 15.407(b)(4) 47 CFR Part 15.407(b)(10)	Pass

Note: 1.N/A -this device(EUT) is not applicable to this testing item
2. RF-conducted test results including cable loss.

2 GENERAL INFORMATION

2.1 Client Information

Applicant's Name : FIBRAIN Sp. z o.o..
Address : Poland, Zaczernie 190F, 36-062

Manufacturer : FIBRAIN Sp. z o.o..
Address : Poland, Zaczernie 190F, 36-062

2.2 Description of Device (EUT)

Product Name:	HGU
Sample No.:	Q240301024-1
Model/Type reference:	HL-4BX3V-F
Series Model:	HLE-4BX3V-F
Trade Mark:	HALNY
Product Description:	HGU
Power Supply:	DC12.0V-1.5A from adapter
Operation Frequency:	802.11a/n(HT20)/ac(HT20)/ax(HE20): U-NII Band 1: 5180MHz to 5240MHz; U-NII Band 2A: 5260MHz to 5320MHz; U-NII Band 2C: 5500MHz to 5700MHz; U-NII Band 3: 5745MHz to 5825MHz; 802.11n(HT40)/ac(HT40)/ax(HE40): U-NII Band 1: 5190MHz to 5230MHz; U-NII Band 2A: 5270MHz to 5310MHz; U-NII Band 2C: 5510MHz to 5670MHz; U-NII Band 3: 5755MHz to 5795MHz; 802.11ac(HT80)/ax(HE80): U-NII Band 1: 5210MHz; U-NII Band 2A: 5290MHz; U-NII Band 2C: 5530MHz to 5610MHz; U-NII Band 3: 5775MHz
Number of Channels:	802.11a/n(HT20)/ac(HT20)/ax(HE20): U-NII Band 1: 4; U-NII Band 2A: 4; U-NII Band 2C: 11; U-NII Band 3: 5; 802.11n(HT40)/ac(HT40)/ax(HE40): U-NII Band 1: 2; U-NII Band 2A: 2; U-NII Band 2C: 5; U-NII Band 3: 2; 802.11ac(HT80)/ax(HE80): U-NII Band 1: 1; U-NII Band 2A: 1; U-NII Band 2C: 2; U-NII Band 3: 1

Modulation Type:	802.11a: OFDM(BPSK, QPSK, 16QAM, 64QAM); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM); 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Antenna Type:	FPC ANTENNA
Antenna Gain:	ANT1: 5.2G:4.34dBi ; 5.3G:4.52dBi ; 5.6G:5.19dBi ; 5.8G:3.62dBi ANT2: 5.2G:3.37dBi ; 5.3G:3.78dBi ; 5.6G:3.67dBi ; 5.8G:4.11dBi ANT3: 5.2G:4.20dBi ; 5.3G:3.21dBi ; 5.6G:3.97dBi ; 5.8G:4.45dBi MIMO:5.2G:3.99dBi ; 5.3G:3.87dBi; 5.6G:4.33dBi ; 5.8G:4.07dBi
Hardware Version:	94V-0
Software Version:	SecureCRT

Note: According to KDB662911 D01 Multiple Transmitter Output v02r01, the MIMO antenna is increased to Direct gain= $10 \log [(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{ANT}]$ dBi=3.99dBi< 6dBi&3.78dBi<6dBi&4.33dBi<6dBi&4.07dBi<6dBi.

Operation Frequency each of Test Channel

802.11a/n(HT20)/ac(HT20)/ ax(HE20)

	U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
Channel	Frequency	Frequency	Frequency	Frequency
Low	5180 MHz	5260	5500	5745 MHz
Mid	5200 MHz	5300	5600	5785 MHz
	5240 MHz	5320	5700	5825 MHz

802.11n(HT40)/ac(HT40)/ ax(HE40)

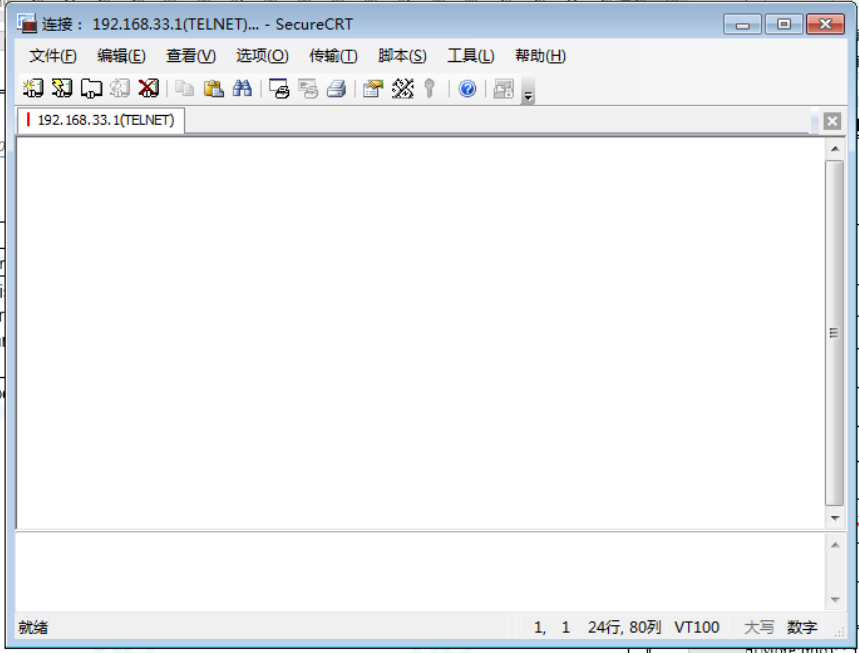
	U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
Channel	Frequency	Frequency	Frequency	Frequency
Low	5190 MHz	5270	5510	5755 MHz
Mid	/	/	5590	/
High	5230 MHz	5310	5670	5795 MHz

802.11ac(HT80)/ ax(HE80)

	U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
Channel	Frequency	Frequency	Frequency	Frequency
Low	/	/	5530	/
Mid	5210 MHz	5290	/	5775 MHz
High	/	/	5610	/

2.3 Description of Test Modes

No	Title	Description
TM1	802.11a mode	Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.
TM2	802.11n mode	Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

TM3	802.11ac mode	Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
TM4	802.11ax mode	Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ax modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
TM5	Normal Operating	Keep the EUT works in normal operating mode and connect to companion device
Description		
Eut uses the maximum duty cycle (>98%) for continuous emission		
☒ Special software is used. ☐ Through engineering command into the engineering mode. engineering command: *##3646633##* ☐ Other method:		
		Special software: 
All tests use the maximum possible duty cycle (>98%) data transmission mode		

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.

Item	Description	Manufacturer	Model No.	Remark	Certification
1	ADAPTER	SHENZHEN OROSUN TECHNOLOGY CO.,LTD	GS-P120150E664	Provide by client	SDOC
2	PC	Lenovo	Air 14 Plus	Provide by lab	SDOC

2.5 Equipments Used During The Test

Conducted Emission at AC power line					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Electric Network	SCHWARZ BECK	CAT5 8158	CAT5 8158#207	/	/
Cable	SCHWARZ BECK	/	/	2023-12-27	2024-12-26
Pulse Limiter	SCHWARZ BECK	VTSD 9561-F Pulse limiter 10dB Ateennator	561-G071	2023-12-12	2024-12-11
50ΩCoaxial Switch	Anritsu	MP59B	M20531	/	/
Test Receiver	Rohde & Schwarz	ESPI TEST RECEIVER	ID:1164.6607K0 3-102109-MH	2023-06-13	2024-06-12
L.I.S.N	R&S	ESH3-Z5	831.5518.52	2023-12-12	2024-12-11

Emission bandwidth and occupied bandwidth					
Maximum conducted output power					
Power spectral density					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RF Test Software	Tachoy Information	RTS-01	V2.0.0.0	/	/
RF Sensor Unit	Tachoy Information	TR1029-2	000001	2023-11-09	2024-11-08
Vector signal generator	Keysight	N5181A	MY48180415	2023-11-09	2024-11-08
Signal generator	Keysight	N5182A	MY50143455	2023-11-09	2024-11-08
Spectrum Analyzer	Keysight	N9020A	MY53420323	2023-12-12	2024-12-11

Band edge emissions (Radiated)					
Undesirable emission limits (below 1GHz)					
Undesirable emission limits (above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test software	Farad	EZ -EMC	V1.1.42	/	/
Positioning Controller	/	MF-7802	/	/	/
Amplifier(18-40G)	COM-POWER	AH-1840	10100008-1	2022-04-05	2025-04-04
Horn antenna	COM-POWER	AH-1840 (18-40G)	10100008	2023-04-05	2025-04-04
Loop antenna	ZHINAN	ZN30900C	ZN30900C	2021-07-05	2024-07-04
Cable(LF)#2	Schwarzbeck	/	/	2024-02-19	2025-02-18
Cable(LF)#1	Schwarzbeck	/	/	2024-02-19	2025-02-18
Cable(HF)#2	Schwarzbeck	AK9515E	96250	2024-02-19	2025-02-18
Cable(HF)#1	Schwarzbeck	SYV-50-3-1	/	2024-02-19	2025-02-18
Power amplifier(LF)	Schwarzbeck	BBV9743	9743-151	2023-06-13	2024-06-12
Power amplifier(HF)	Schwarzbeck	BBV9718	9718-282	2023-06-13	2024-06-12
Spectrum Analyzer	R&S	FSP30	1321.3008K40-101729-jR	2023-06-14	2024-06-13
Horn Antenna	Sunol Sciences	DRH-118	A091114	2023-05-13	2025-05-12

Broadband Antenna	Sunol Sciences	JB6 Antenna	A090414	2023-05-21	2025-05-20
Test Receiver	R&S	ESCI	102109	2023-06-13	2024-06-12

2.6 Statement Of The Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Disturbance (0.15~30MHz)	$\pm 3.41\text{dB}$
Duty cycle	$\pm 3.1\%$
RF conducted power	$\pm 0.733\text{dB}$
RF power density	$\pm 0.234\%$
Occupied Bandwidth	$\pm 3.63\%$
Radiated Emission (Above 1GHz)	$\pm 5.46\text{dB}$
Radiated Emission (Below 1GHz)	$\pm 5.79\text{dB}$
Note: (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.	

2.7 Authorizations

Company Name:	Shenzhen DACE Testing Technology Co., Ltd.
Address:	101-102 Building H5 & 1/F., Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, Guangdong, China
Phone Number:	+86-13267178997
Fax Number:	86-755-29113252

Identification of the Responsible Testing Location

Company Name:	Shenzhen DACE Testing Technology Co., Ltd.
Address:	101-102 Building H5 & 1/F., Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, Guangdong, China
Phone Number:	+86-13267178997
Fax Number:	86-755-29113252
FCC Registration Number:	0032847402
Designation Number:	CN1342
Test Firm Registration No.:	778666
A2LA Certificate Number:	6270.01

2.8 Announcement

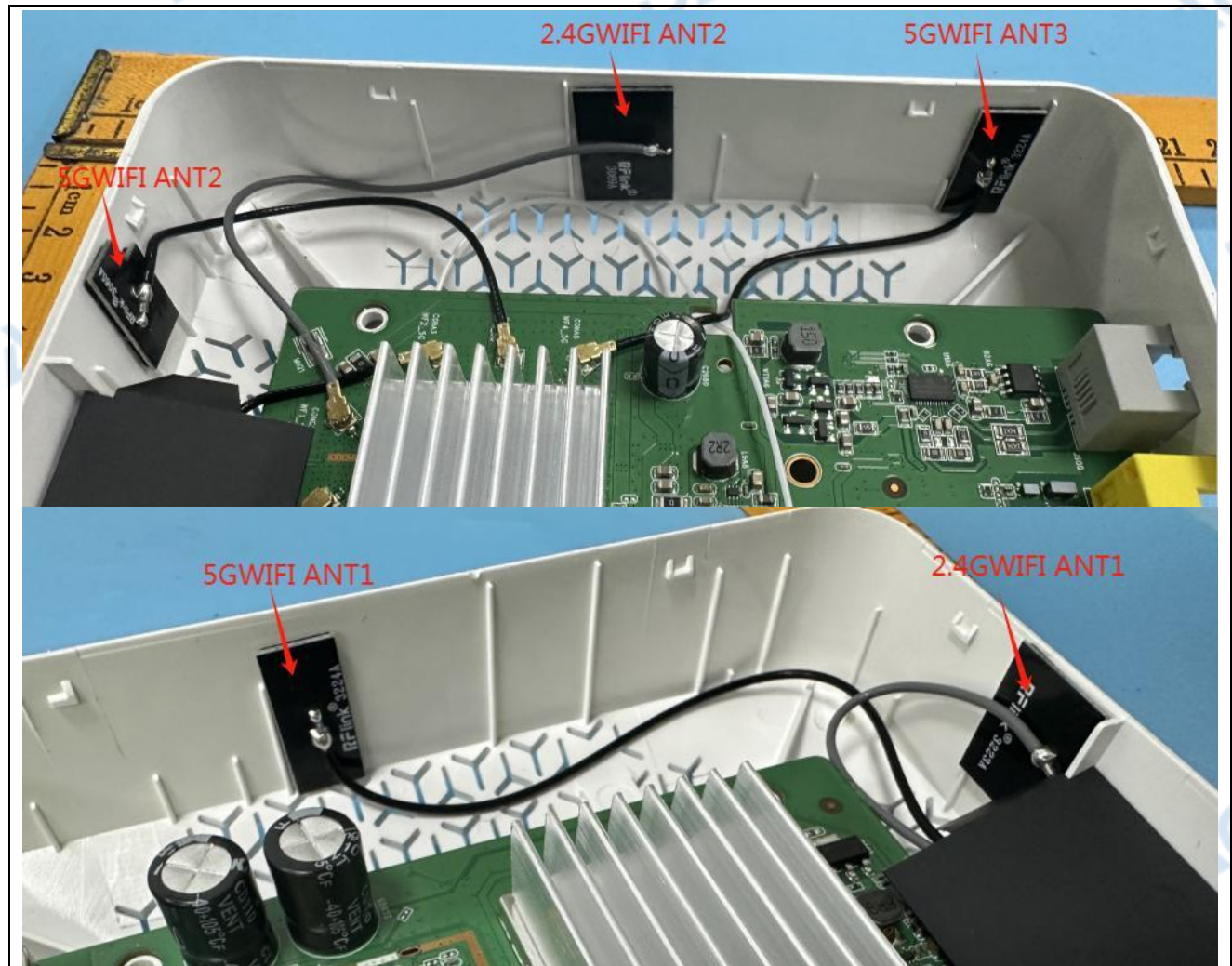
- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by DACE and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) We hereby declare that the laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant. the laboratory is not responsible for the accuracy of the information provided by the client. When the information provided by the customer may affect the effectiveness of the results, the responsibility lies with the customer, and the laboratory does not assume any responsibility.

3 Evaluation Results (Evaluation)

3.1 Antenna requirement

Test Requirement:	Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.
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3.1.1 Conclusion:



4 Radio Spectrum Matter Test Results (RF)

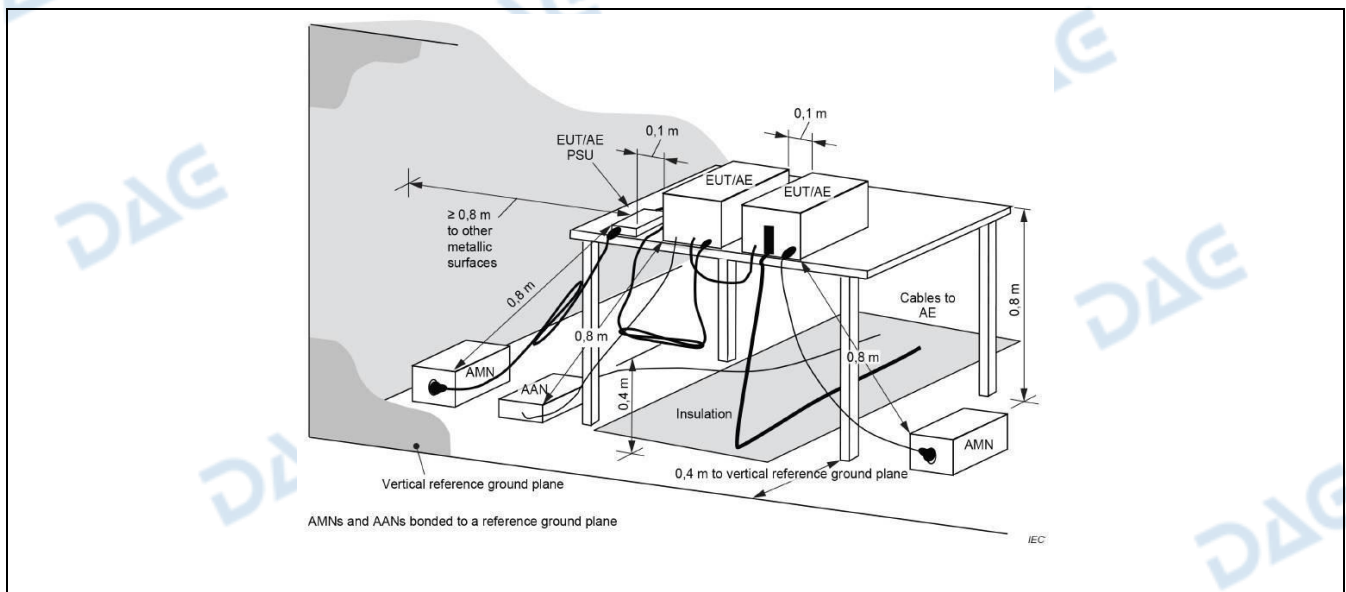
4.1 Conducted Emission at AC power line

Test Requirement:	47 CFR Part 15.207(a)		
Test Limit:	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
	*Decreases with the logarithm of the frequency.		
Test Method:	ANSI C63.10-2013 section 6.2		

4.1.1 E.U.T. Operation:

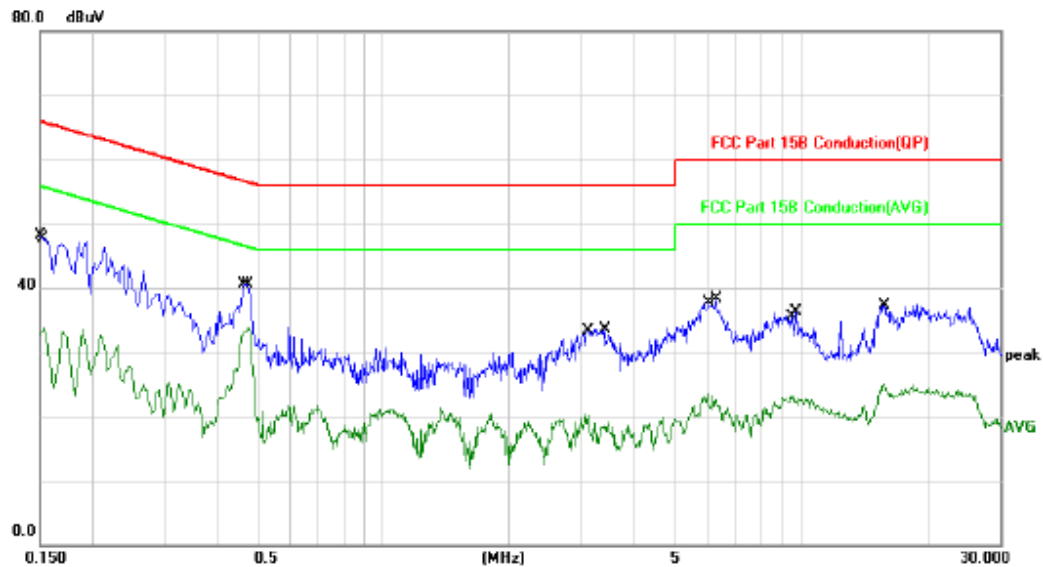
Operating Environment:					
Temperature:	23.8 °C	Humidity:	51.1 %	Atmospheric Pressure:	102 kPa
Pretest mode:		TM1			
Final test mode:		TM1			

4.1.2 Test Setup Diagram:



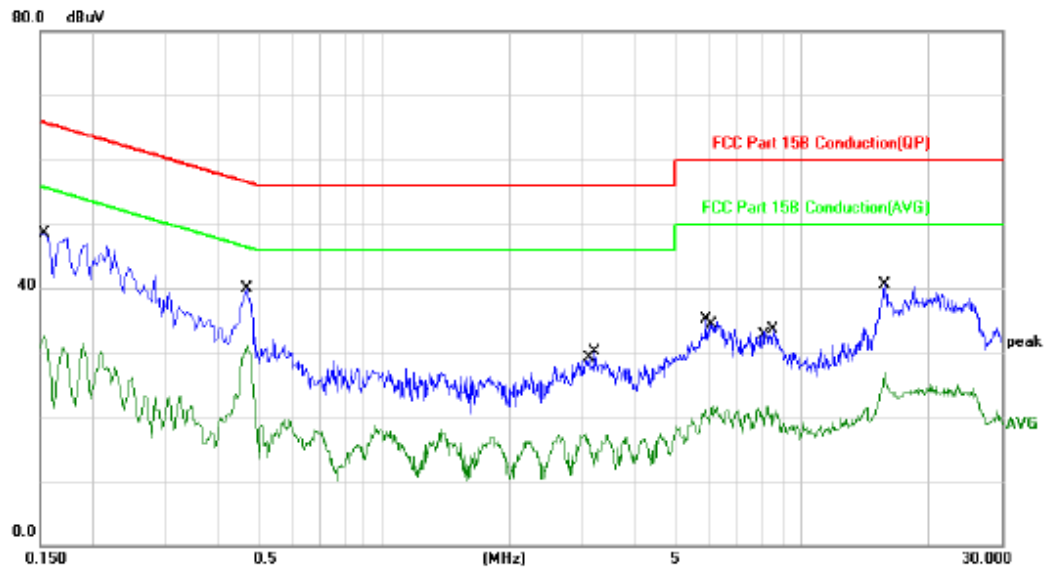
4.1.3 Test Data:

TM1 / Line: Line / Band: 5150-5250 MHz / BW: 20 / CH: L



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	37.99	10.05	48.04	65.99	-17.95	QP	
2		0.1539	23.67	10.05	33.72	55.78	-22.06	AVG	
3		0.4660	30.59	9.98	40.57	56.58	-16.01	QP	
4	*	0.4740	23.71	9.98	33.69	46.44	-12.75	AVG	
5		3.0980	10.11	10.04	20.15	46.00	-25.85	AVG	
6		3.3900	23.53	10.05	33.58	56.00	-22.42	QP	
7		5.9740	13.22	10.19	23.41	50.00	-26.59	AVG	
8		6.2660	28.03	10.21	38.24	60.00	-21.76	QP	
9		9.5140	12.70	10.39	23.09	50.00	-26.91	AVG	
10		9.7140	25.87	10.40	36.27	60.00	-23.73	QP	
11		15.7340	14.59	10.46	25.05	50.00	-24.95	AVG	
12		15.8380	26.93	10.46	37.39	60.00	-22.61	QP	

TM1 / Line: Neutral / Band: 5150-5250 MHz / BW: 20 / CH: L



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1539	38.39	10.05	48.44	65.78	-17.34	QP	
2		0.1539	22.53	10.05	32.58	55.78	-23.20	AVG	
3		0.4700	29.85	9.98	39.83	56.51	-16.68	QP	
4	*	0.4700	21.11	9.98	31.09	46.51	-15.42	AVG	
5		3.0579	7.27	10.04	17.31	46.00	-28.69	AVG	
6		3.1940	20.10	10.04	30.14	56.00	-25.86	QP	
7		5.8900	25.01	10.19	35.20	60.00	-24.80	QP	
8		6.0820	11.06	10.19	21.25	50.00	-28.75	AVG	
9		8.2580	11.19	10.33	21.52	50.00	-28.48	AVG	
10		8.5020	23.19	10.34	33.53	60.00	-26.47	QP	
11		15.7660	30.14	10.46	40.60	60.00	-19.40	QP	
12		15.7660	16.47	10.46	26.93	50.00	-23.07	AVG	

4.2 Maximum conducted output power

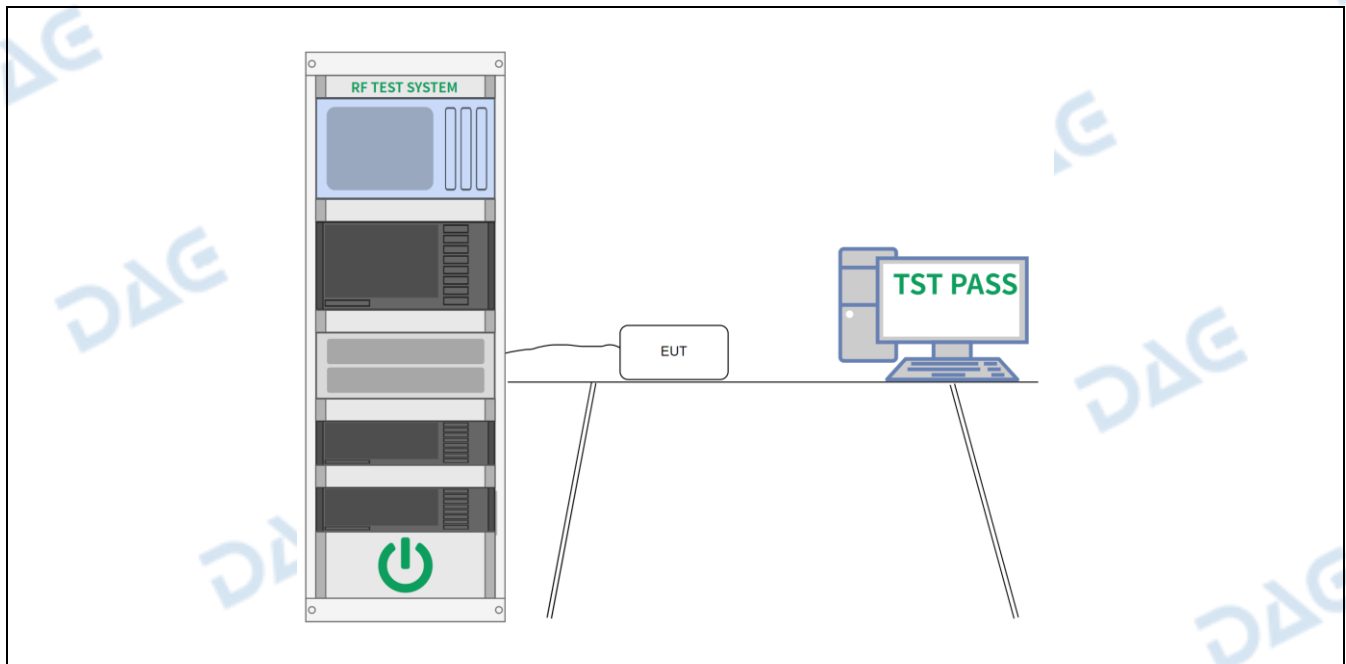
Test Requirement:	47 CFR Part 15.407(a)(1)(i) 47 CFR Part 15.407(a)(1)(ii) 47 CFR Part 15.407(a)(1)(iii) 47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(2) 47 CFR Part 15.407(a)(3)(i)
Test Limit:	For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm). For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple colocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations. For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

	However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple colocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
Test Method:	ANSI C63.10-2013, section 12.3
Procedure:	Refer to ANSI C63.10-2013 section 12.3

4.2.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23.1 °C	Humidity:	55.1 %	Atmospheric Pressure:	102 kPa
Pretest mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

4.2.2 Test Setup Diagram:



4.2.3 Test Data:

Please Refer to Appendix for Details.

4.3 Power spectral density

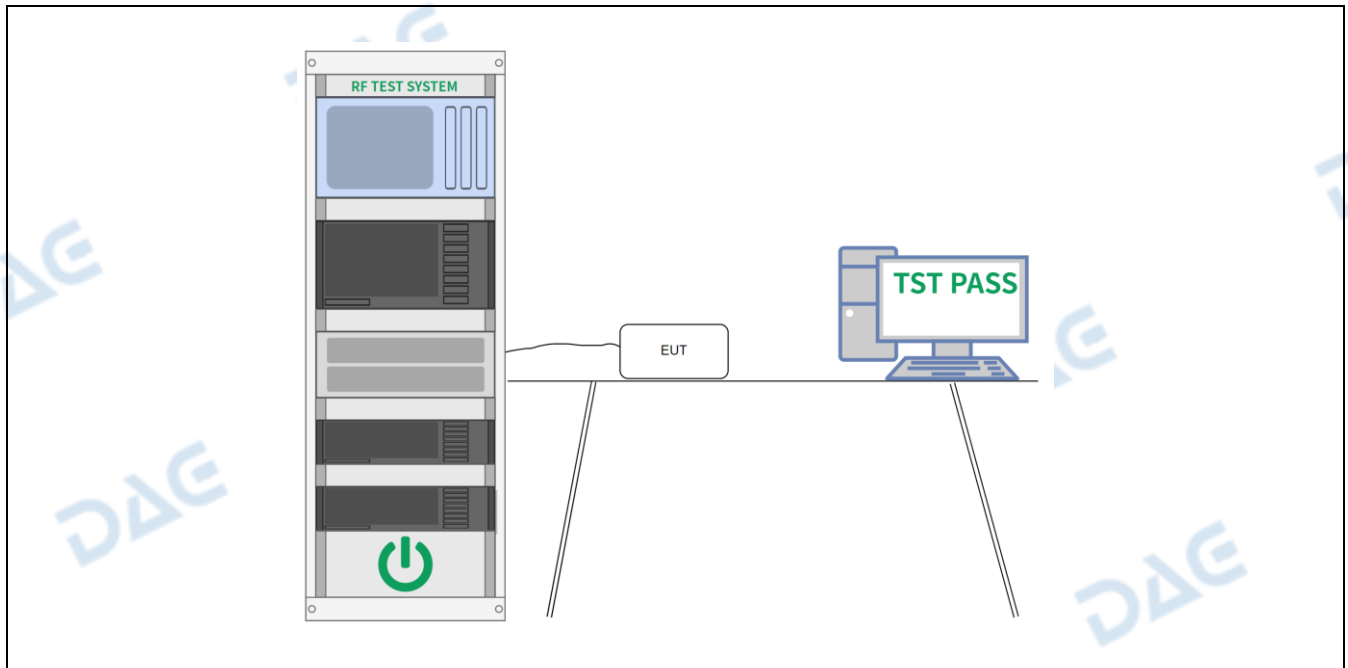
Test Requirement:	47 CFR Part 15.407(a)(1)(i) 47 CFR Part 15.407(a)(1)(ii) 47 CFR Part 15.407(a)(1)(iii) 47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(2) 47 CFR Part 15.407(a)(3)(i)
Test Limit:	For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple colocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations. For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. For the band 5.725-5.850 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple colocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems

	employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
Test Method:	ANSI C63.10-2013, section 12.5
Procedure:	Refer to ANSI C63.10-2013, section 12.5

4.3.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23.1 °C	Humidity:	55.1 %	Atmospheric Pressure:	102 kPa
Pretest mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

4.3.2 Test Setup Diagram:



4.3.3 Test Data:

Please Refer to Appendix for Details.

4.4 Emission bandwidth and occupied bandwidth

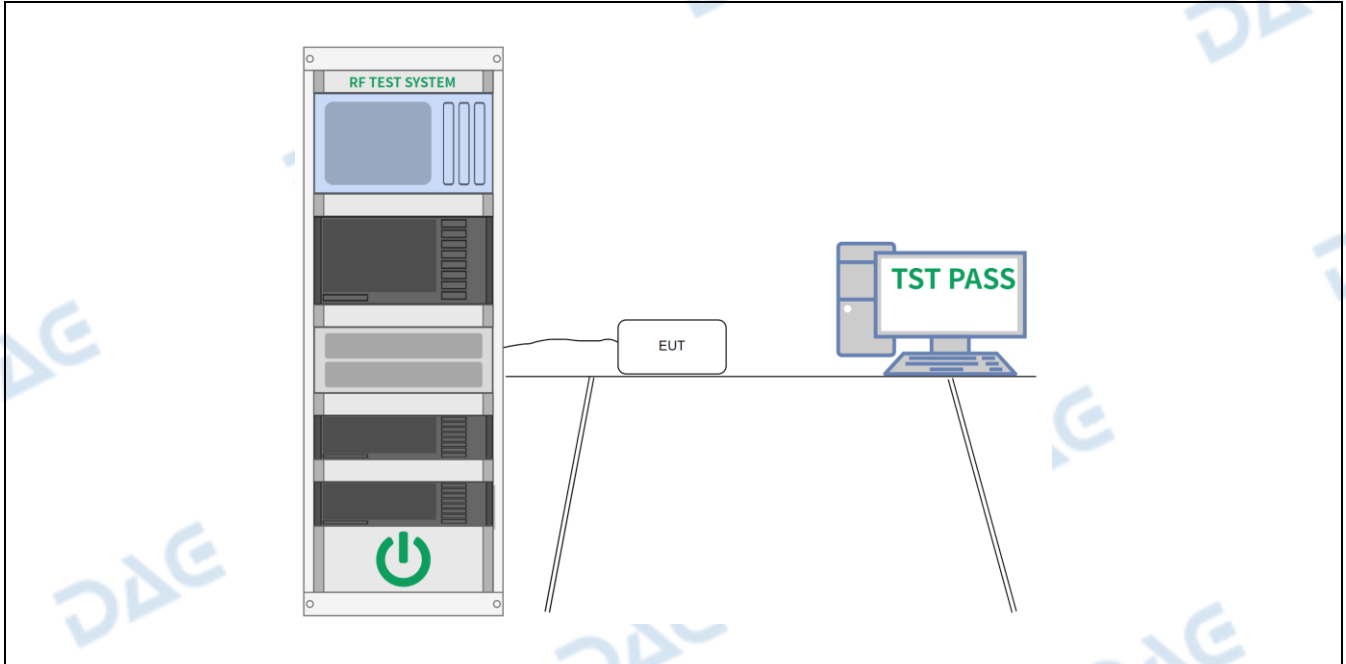
Test Requirement:	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use. U-NII 3, U-NII 4: 47 CFR Part 15.407(e)
Test Limit:	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use. U-NII 3, U-NII 4: Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.
Test Method:	ANSI C63.10-2013, section 6.9 & 12.4 KDB 789033 D02, Clause C.2
Procedure:	Emission bandwidth: - Set RBW = approximately 1% of the emission bandwidth. - Set the VBW > RBW. - Detector = peak. - Trace mode = max hold. - 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 instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%. Occupied bandwidth: - The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW. - The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement. - Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.5.2. - Step a) through step c) might require iteration to adjust within the specified range. - Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used. - Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth. - If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies. - The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s). 6 dB emission bandwidth: - Set RBW = 100 kHz. - Set the video bandwidth (VBW) $\geq 3 \times$ RBW. - Detector = Peak. - Trace mode = max hold. - Sweep = auto couple. - Allow the trace to stabilize. - 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.

4.4.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23.1 °C	Humidity:	55.1 %	Atmospheric Pressure:	102 kPa
Pretest mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

4.4.2 Test Setup Diagram:



4.4.3 Test Data:

Please Refer to Appendix for Details.

4.5 Band edge emissions (Radiated)

Test Requirement:	47 CFR Part 15.407(b)(1) 47 CFR Part 15.407(b)(2) 47 CFR Part 15.407(b)(3) 47 CFR Part 15.407(b)(4) 47 CFR Part 15.407(b)(10)																																																																								
Test Limit:	For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. For transmitters operating solely in the 5.725-5.850 GHz band: 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. <table><tr><th>MHz</th><th>MHz</th><th>MHz</th><th>GHz</th></tr><tr><td>0.090-0.110</td><td>16.42-16.423</td><td>399.9-410</td><td>4.5-5.15</td></tr><tr><td>¹0.495-0.505</td><td>16.69475-16.69525</td><td>608-614</td><td>5.35-5.46</td></tr><tr><td>2.1735-2.1905</td><td>16.80425-16.80475</td><td>960-1240</td><td>7.25-7.75</td></tr><tr><td>4.125-4.128</td><td>25.5-25.67</td><td>1300-1427</td><td>8.025-8.5</td></tr><tr><td>4.17725-4.17775</td><td>37.5-38.25</td><td>1435-1626.5</td><td>9.0-9.2</td></tr><tr><td>4.20725-4.20775</td><td>73-74.6</td><td>1645.5-1646.5</td><td>9.3-9.5</td></tr><tr><td>6.215-6.218</td><td>74.8-75.2</td><td>1660-1710</td><td>10.6-12.7</td></tr><tr><td>6.26775-6.26825</td><td>108-121.94</td><td>1718.8-1722.2</td><td>13.25-13.4</td></tr><tr><td>6.31175-6.31225</td><td>123-138</td><td>2200-2300</td><td>14.47-14.5</td></tr><tr><td>8.291-8.294</td><td>149.9-150.05</td><td>2310-2390</td><td>15.35-16.2</td></tr><tr><td>8.362-8.366</td><td>156.52475-156.52525</td><td>2483.5-2500</td><td>17.7-21.4</td></tr><tr><td>8.37625-8.38675</td><td>156.7-156.9</td><td>2690-2900</td><td>22.01-23.12</td></tr><tr><td>8.41425-8.41475</td><td>162.0125-167.17</td><td>3260-3267</td><td>23.6-24.0</td></tr><tr><td>12.29-12.293</td><td>167.72-173.2</td><td>3332-3339</td><td>31.2-31.8</td></tr><tr><td>12.51975-12.52025</td><td>240-285</td><td>3345.8-3358</td><td>36.43-36.5</td></tr><tr><td>12.57675-12.57725</td><td>322-335.4</td><td>3600-4400</td><td>(²)</td></tr><tr><td>13.36-13.41</td><td></td><td></td><td></td></tr></table> ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. ²Above 38.6 The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in § 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in § 15.209 shall be demonstrated using	MHz	MHz	MHz	GHz	0.090-0.110	16.42-16.423	399.9-410	4.5-5.15	¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46	2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75	4.125-4.128	25.5-25.67	1300-1427	8.025-8.5	4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2	4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5	6.215-6.218	74.8-75.2	1660-1710	10.6-12.7	6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4	6.31175-6.31225	123-138	2200-2300	14.47-14.5	8.291-8.294	149.9-150.05	2310-2390	15.35-16.2	8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4	8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12	8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0	12.29-12.293	167.72-173.2	3332-3339	31.2-31.8	12.51975-12.52025	240-285	3345.8-3358	36.43-36.5	12.57675-12.57725	322-335.4	3600-4400	(²)	13.36-13.41			
MHz	MHz	MHz	GHz																																																																						
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15																																																																						
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46																																																																						
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75																																																																						
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4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2																																																																						
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5																																																																						
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7																																																																						
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4																																																																						
6.31175-6.31225	123-138	2200-2300	14.47-14.5																																																																						
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2																																																																						
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4																																																																						
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12																																																																						
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0																																																																						
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8																																																																						
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5																																																																						
12.57675-12.57725	322-335.4	3600-4400	(²)																																																																						
13.36-13.41																																																																									

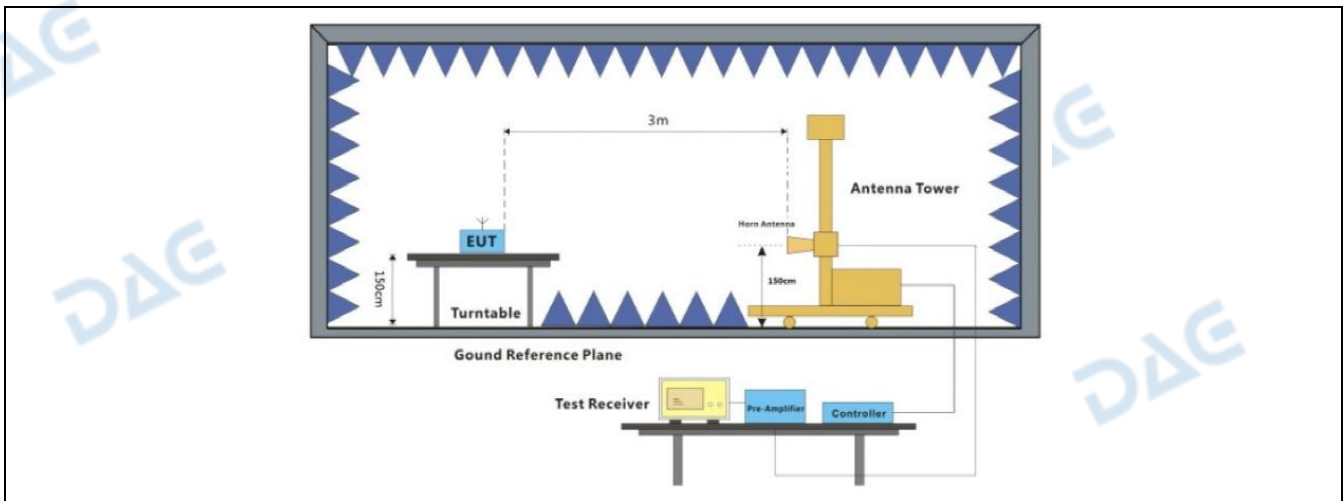
	measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in § 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in § 15.35 apply to these measurements. Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table: <table><tr><th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr><tr><td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr><tr><td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr><tr><td>1.705-30.0</td><td>30</td><td>30</td></tr><tr><td>30-88</td><td>100 **</td><td>3</td></tr><tr><td>88-216</td><td>150 **</td><td>3</td></tr><tr><td>216-960</td><td>200 **</td><td>3</td></tr><tr><td>Above 960</td><td>500</td><td>3</td></tr></table> ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.	Frequency (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
Frequency (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																							
Test Method:	ANSI C63.10-2013, section 12.7.4, 12.7.6, 12.7.7																								
Procedure:	Above 1GHz: - For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. - The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. - 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. - 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. - The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. - 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 or average method as specified and then reported in a data sheet. - Test the EUT in the lowest channel, the middle channel, the Highest channel. - The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. - Repeat above procedures until all frequencies measured was complete. Remark: - Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor - Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The																								

	points marked on above plots are the highest emissions could be found when testing, so only above points 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report. 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
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4.5.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23.1 °C	Humidity:	55.1 %	Atmospheric Pressure:	102 kPa
Pretest mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4(Only record the worst channel and mode)				

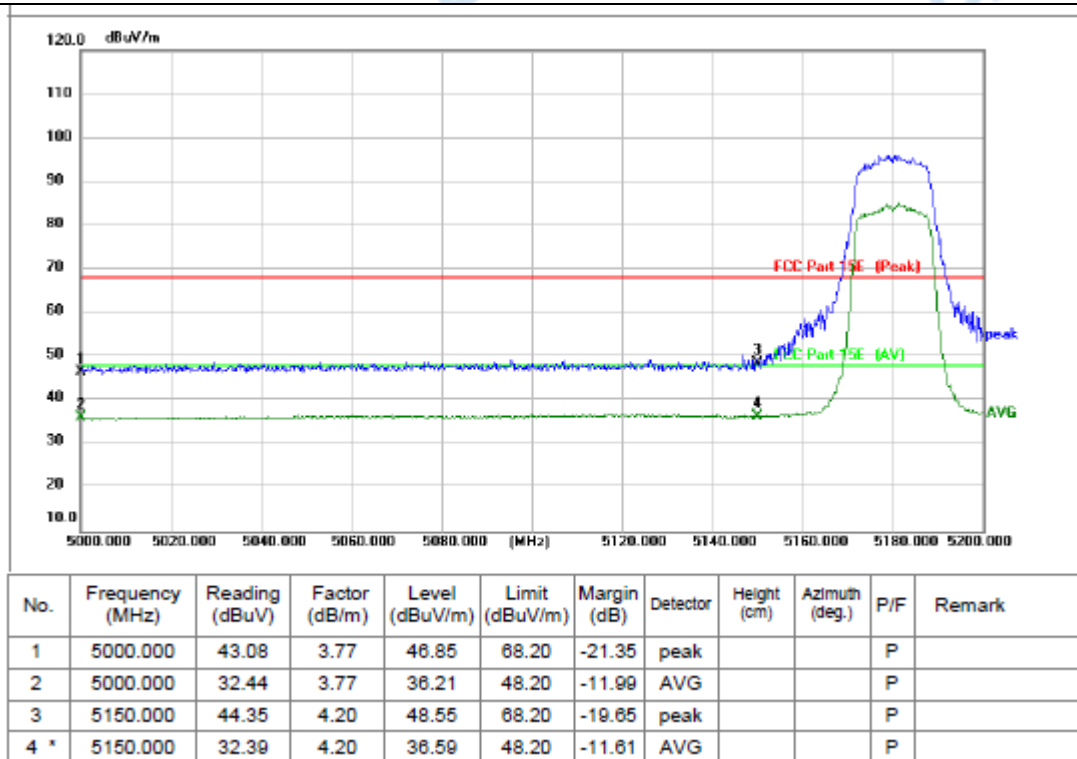
4.5.2 Test Setup Diagram:



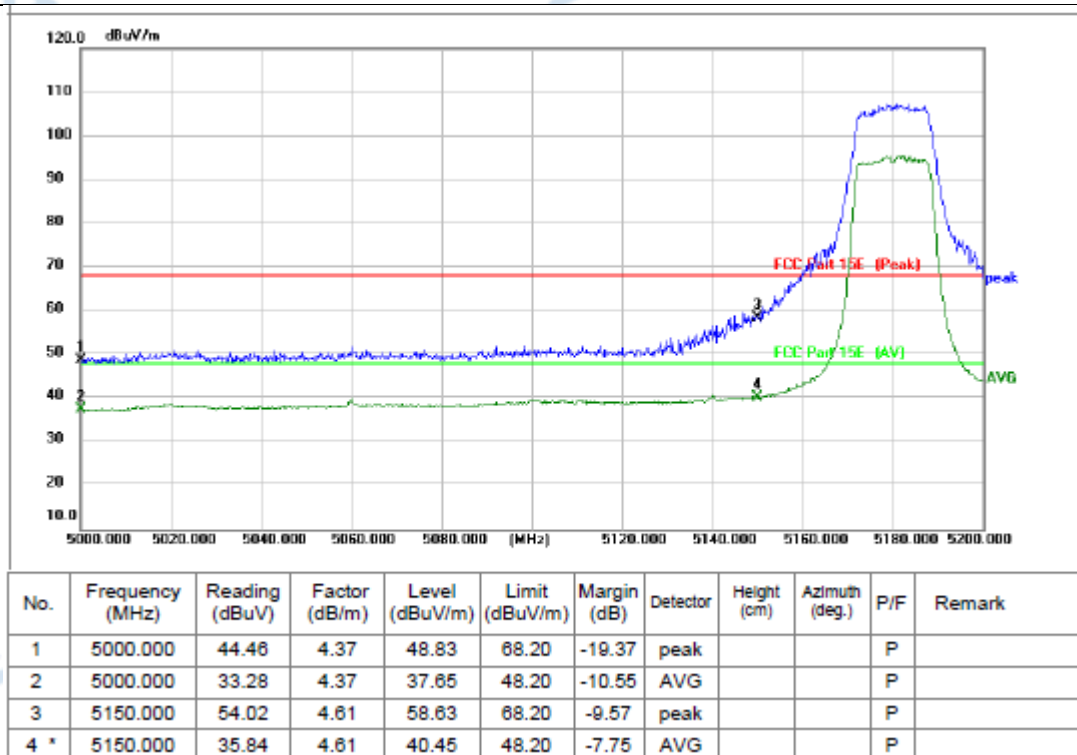
4.5.3 Test Data:

ANT2

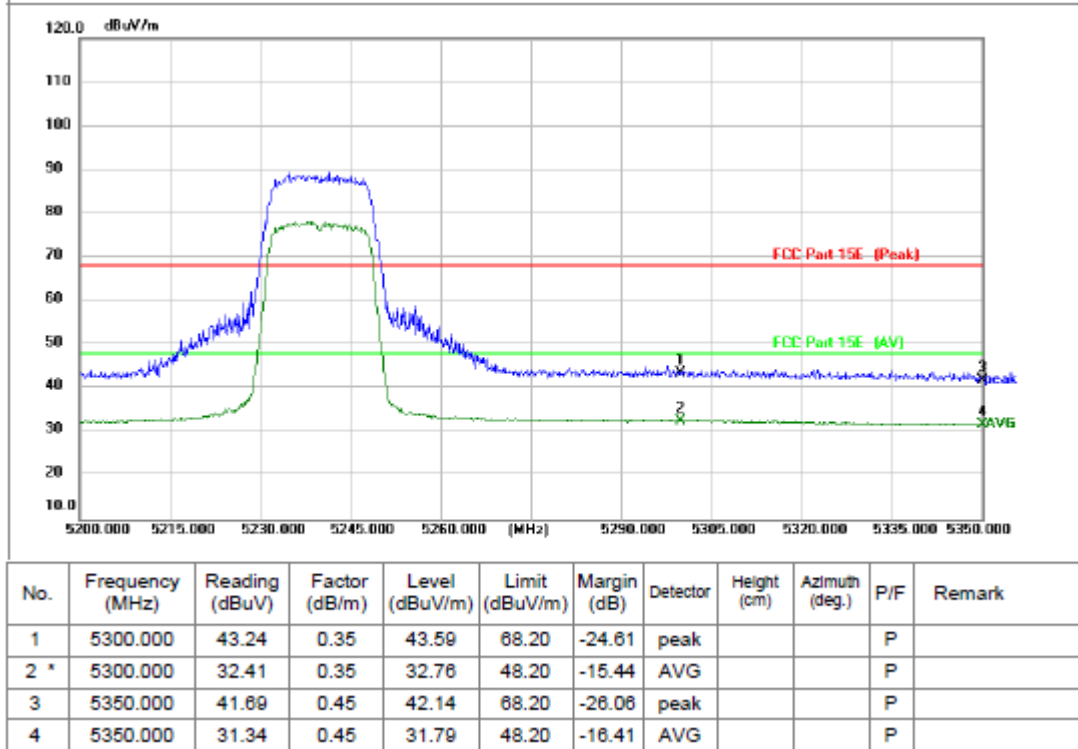
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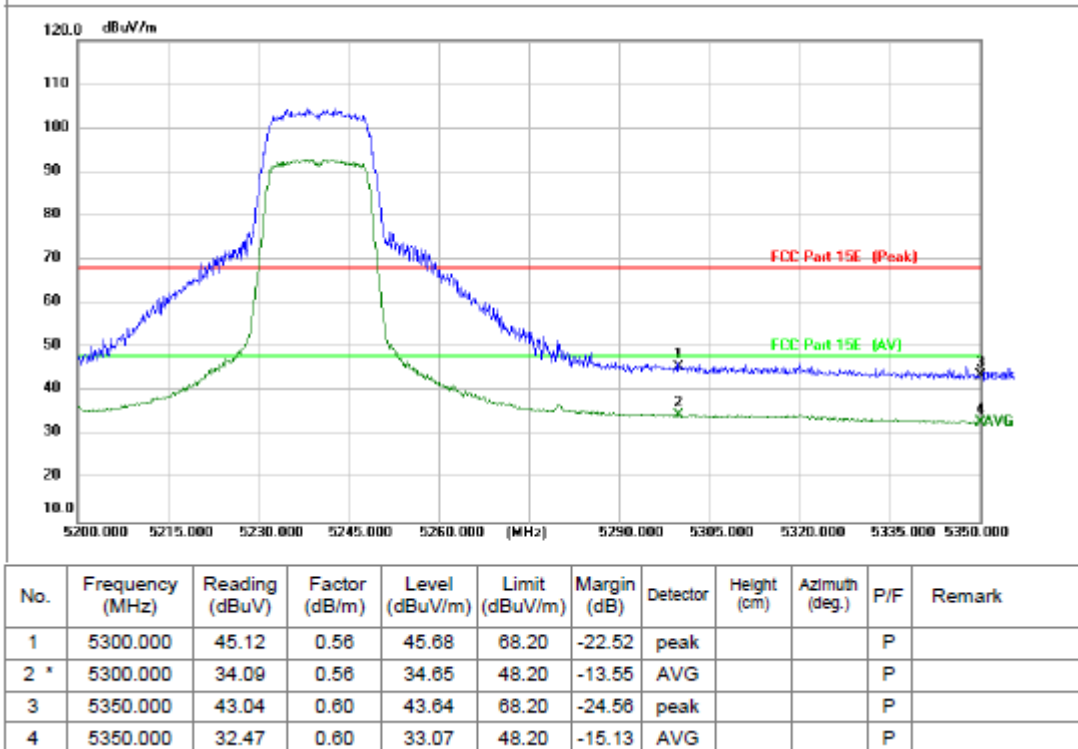
TM1 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: L



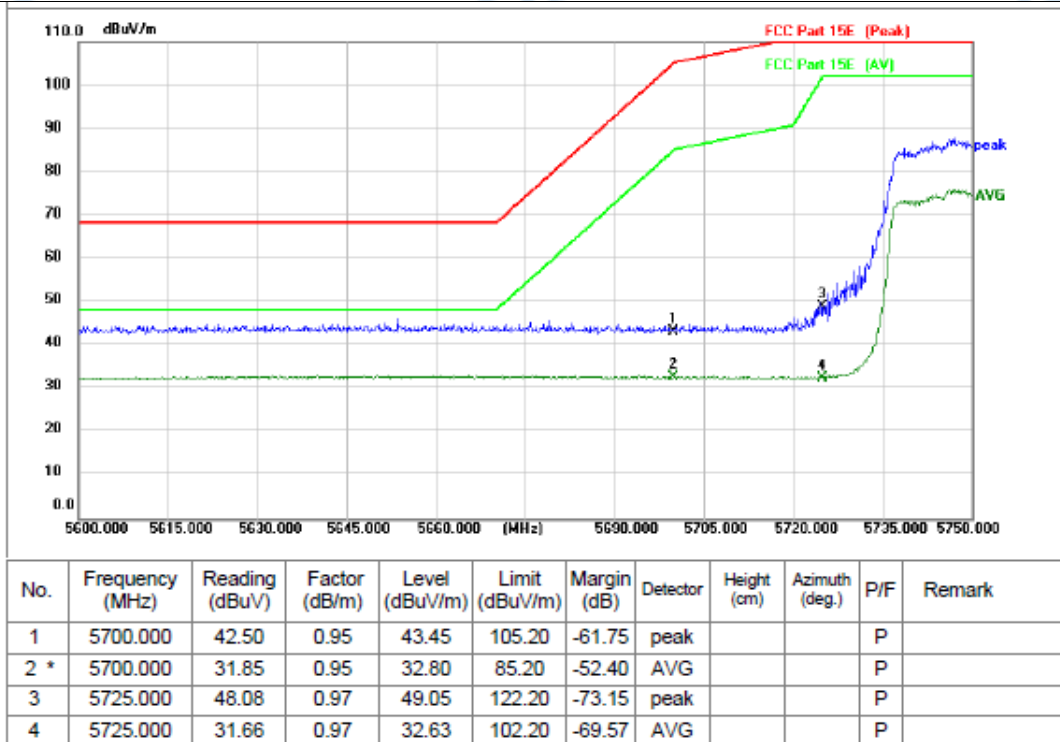
TM1 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: H



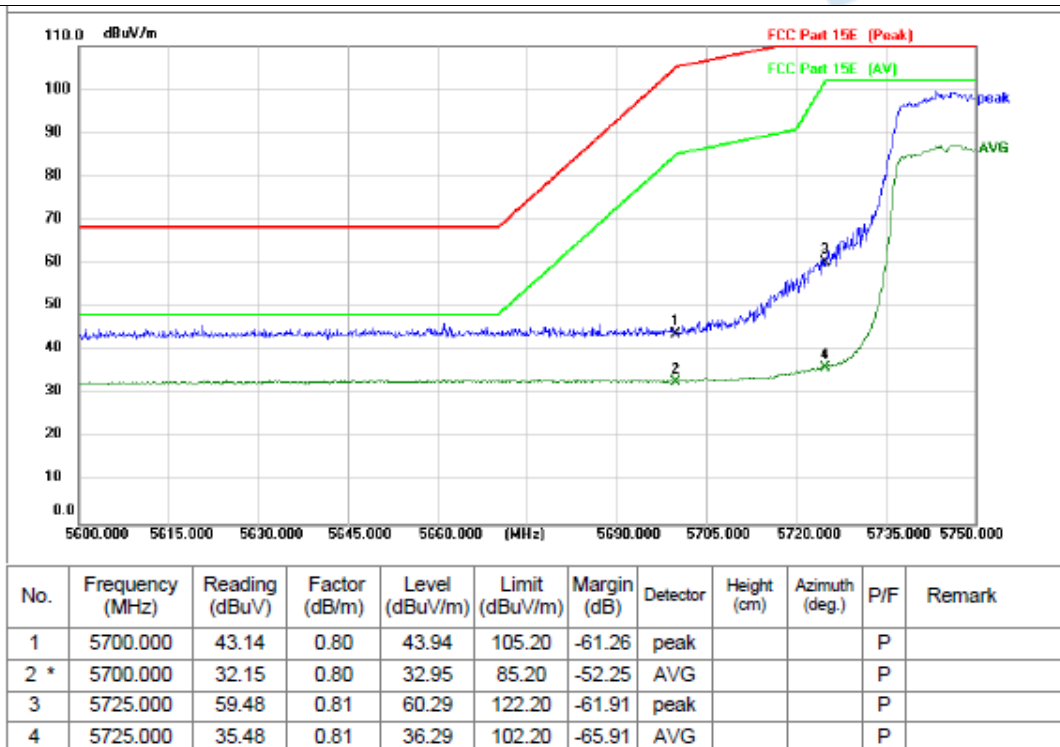
TM1 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: H



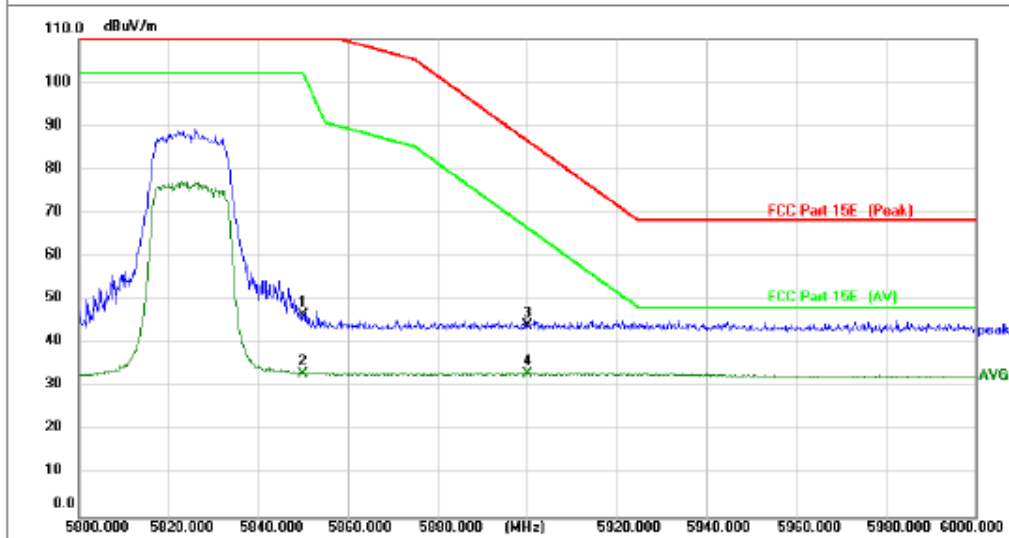
TM1 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: L



TM1 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: L

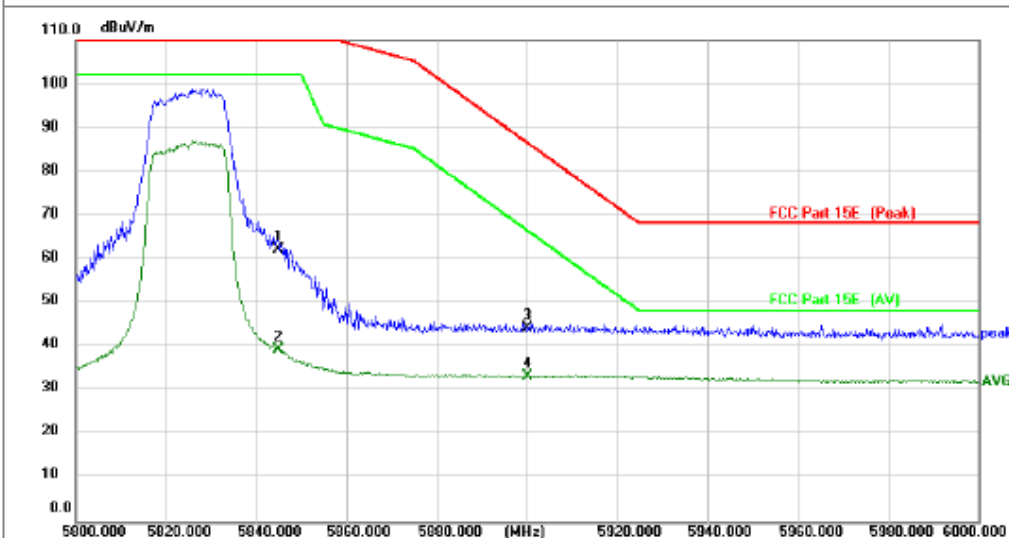


TM1 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: H



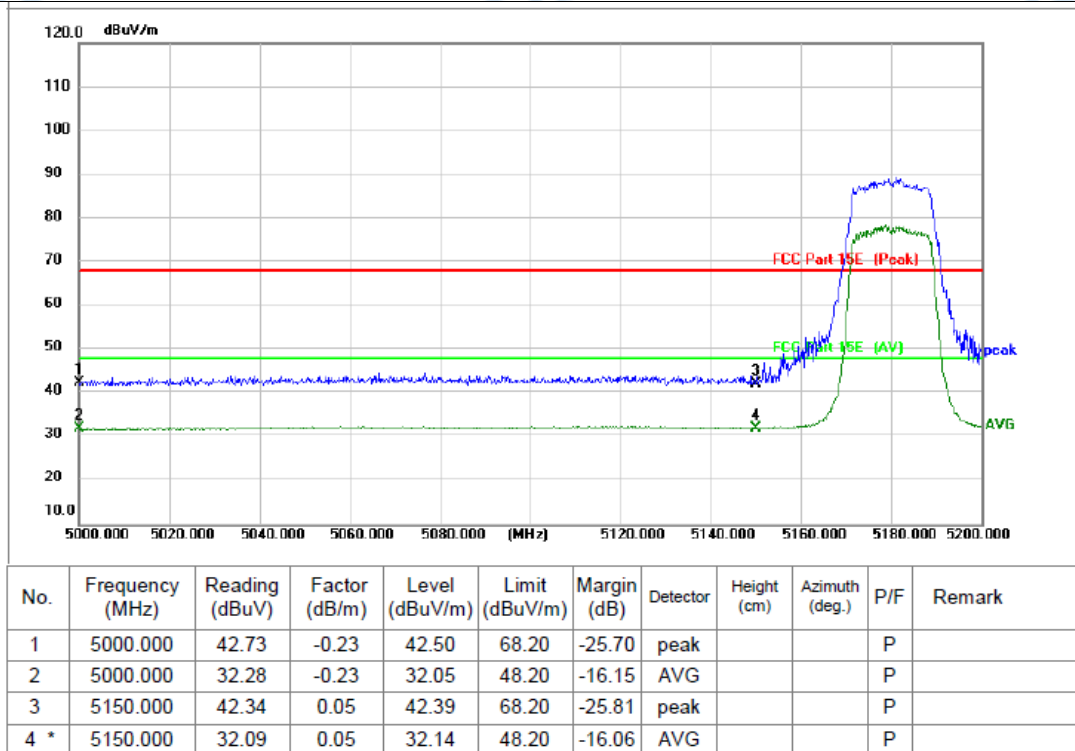
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5850.000	45.52	1.13	46.65	122.20	-75.55	peak			P	
2	5850.000	32.10	1.13	33.23	102.20	-68.97	AVG			P	
3	5900.000	42.87	1.18	44.05	86.66	-42.61	peak			P	
4 *	5900.000	31.85	1.18	33.03	66.66	-33.63	AVG			P	

TM1 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: H

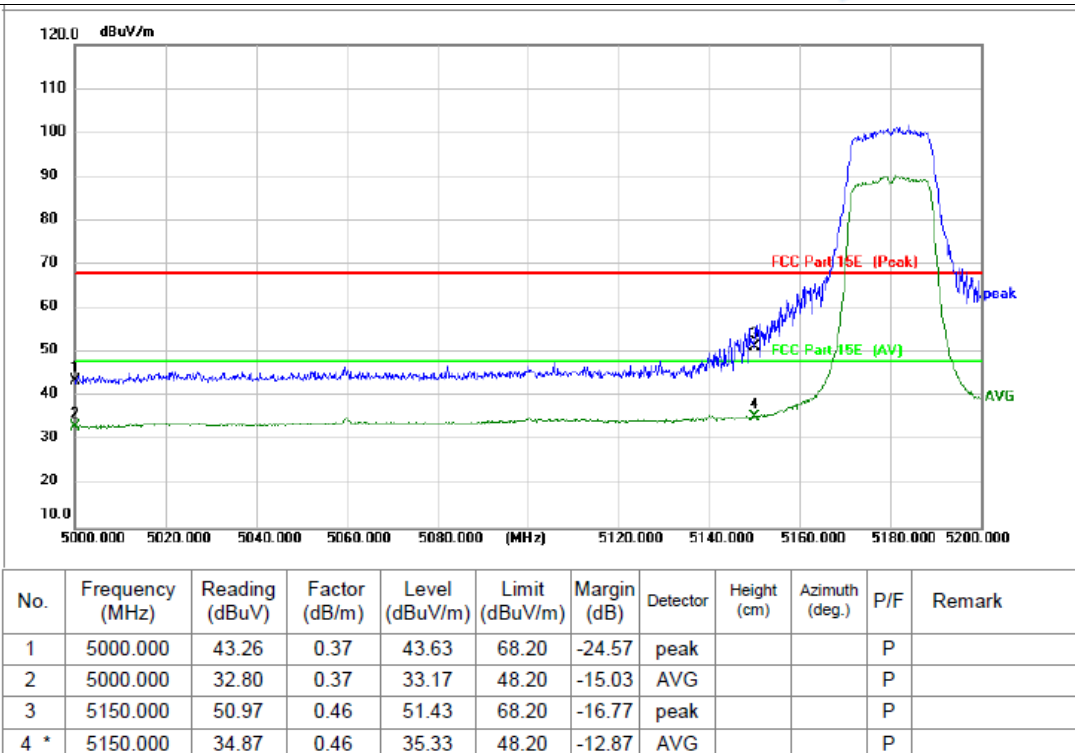


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5845.000	61.47	0.90	62.37	122.20	-59.83	peak			P	
2	5845.000	38.61	0.90	39.51	102.20	-62.69	AVG			P	
3	5900.000	43.46	0.93	44.39	86.66	-42.27	peak			P	
4 *	5900.000	32.48	0.93	33.41	66.66	-33.25	AVG			P	

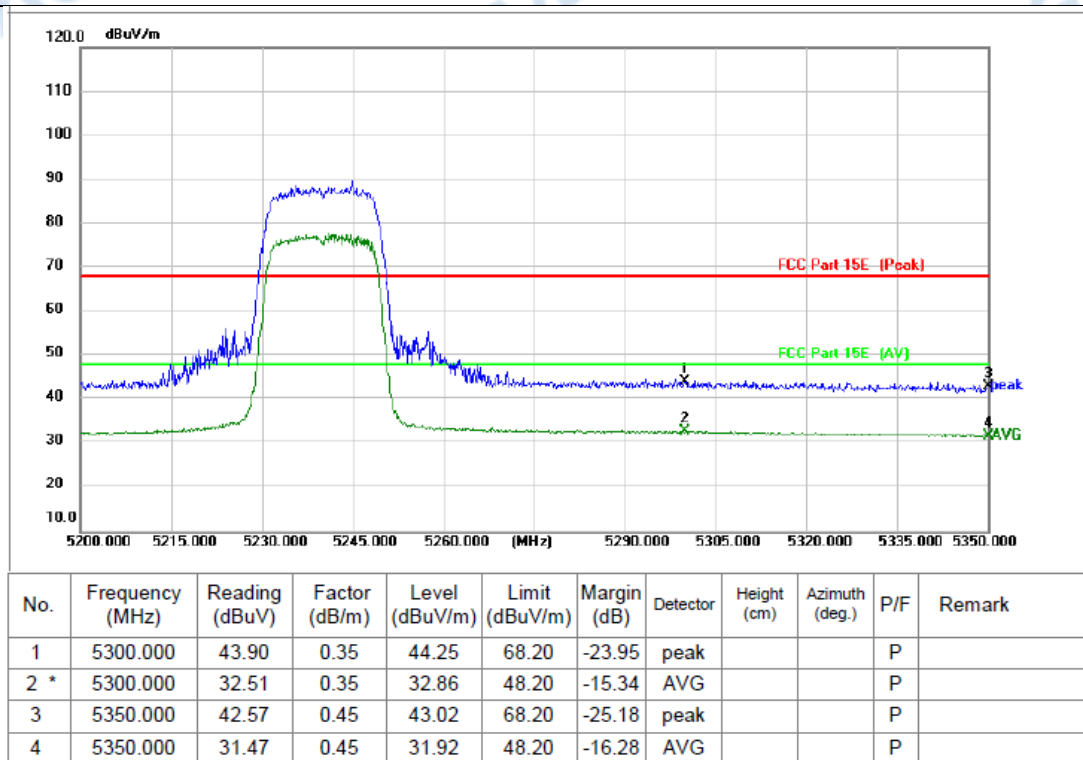
TM2 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: L



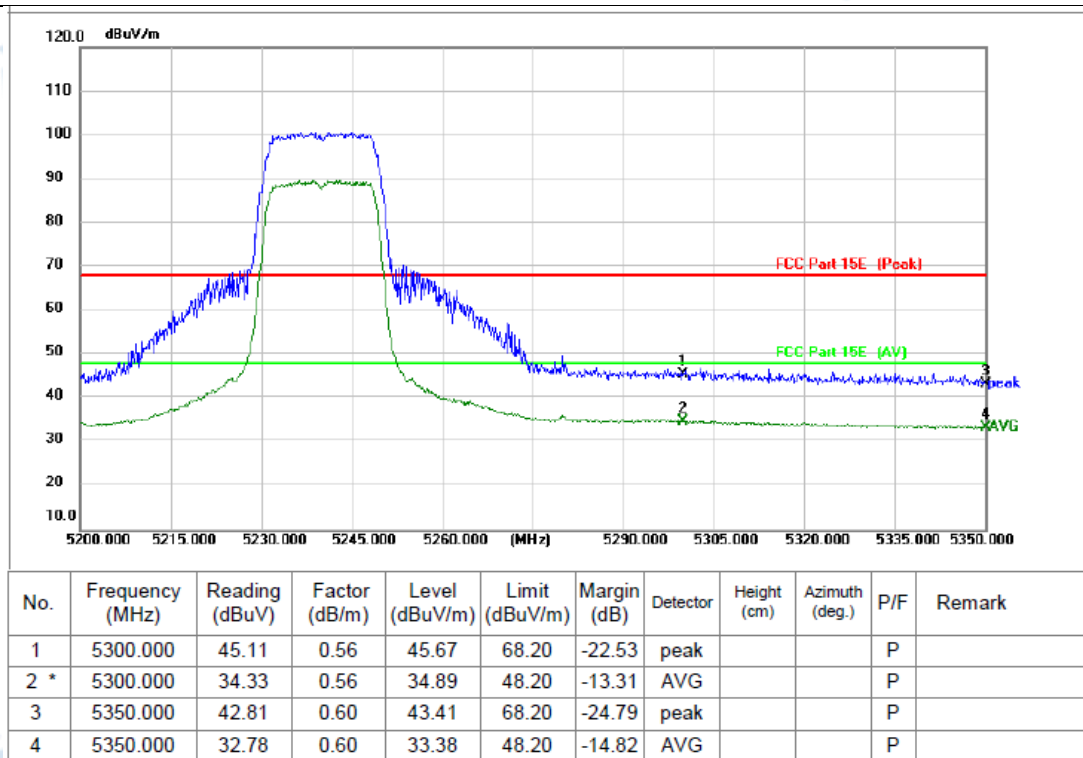
TM2 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: L



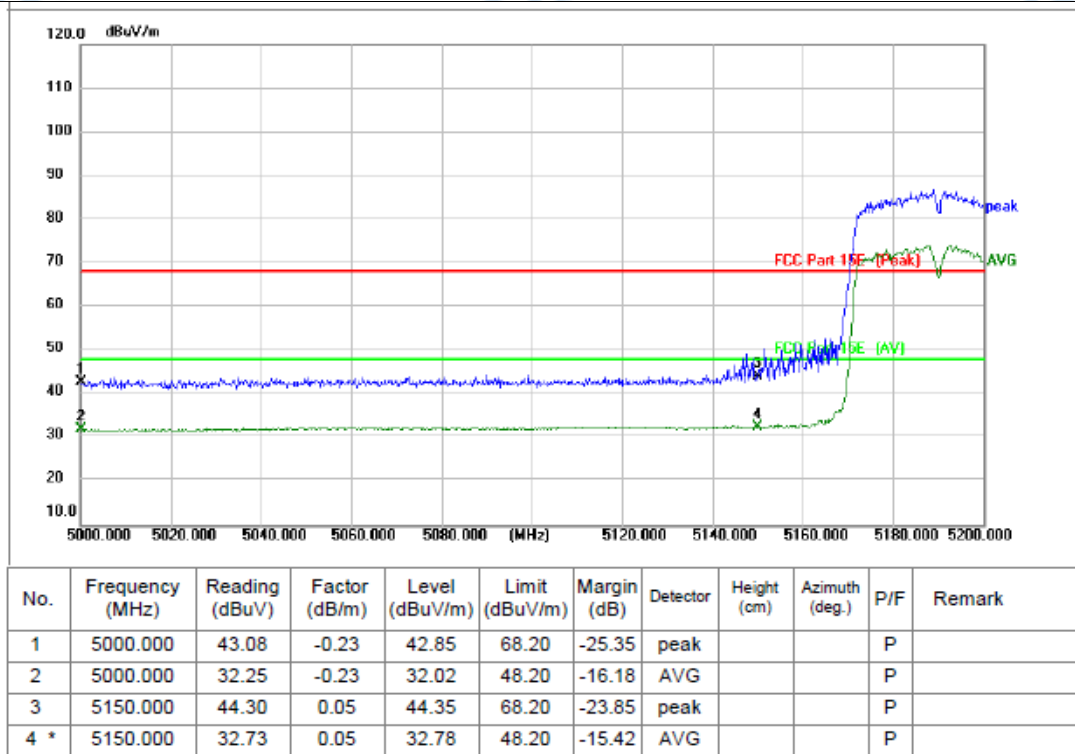
TM2 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: H



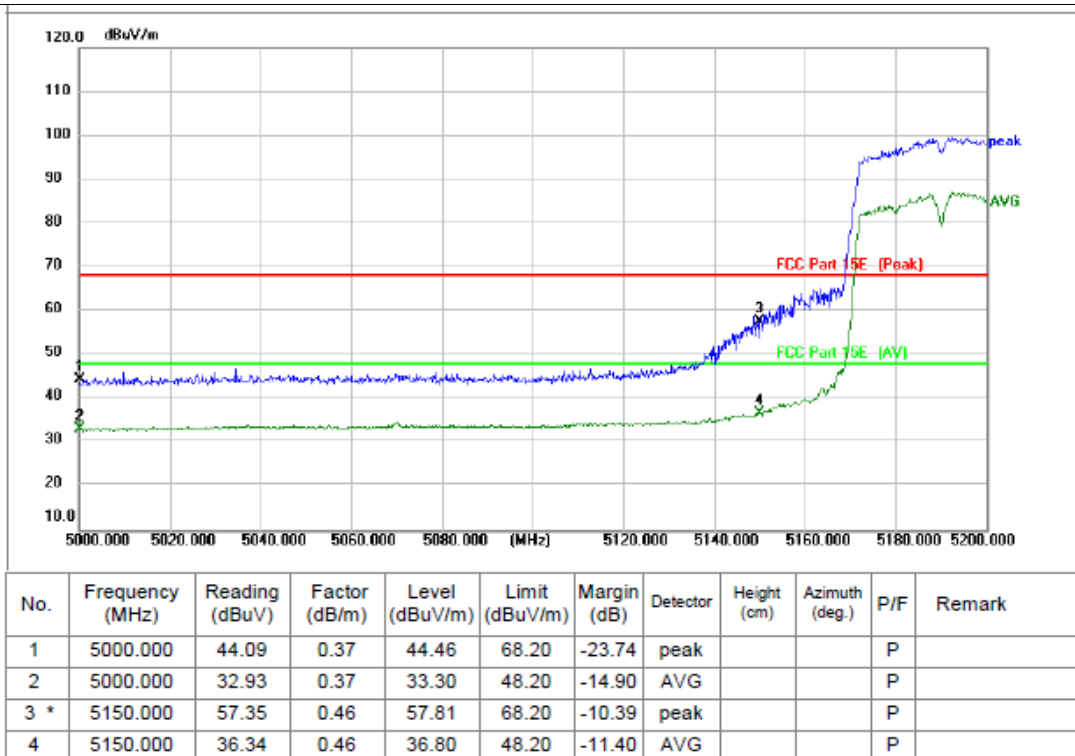
TM2 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: H



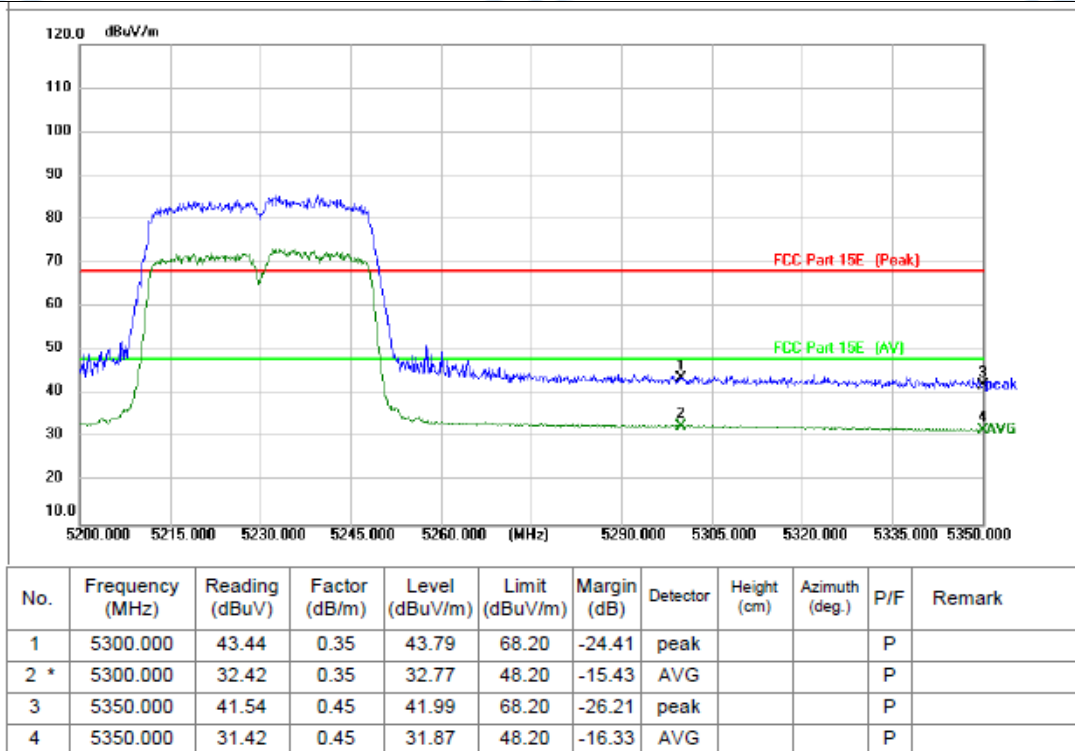
TM2 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 40 / CH: L



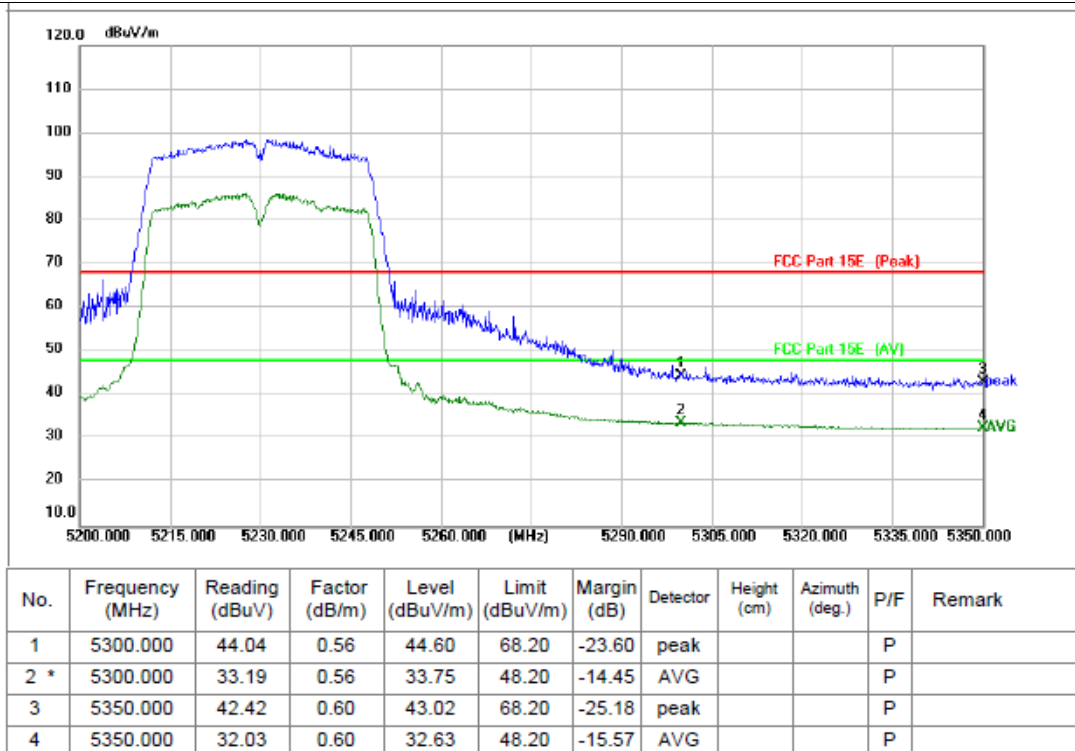
TM2 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 40 / CH: L



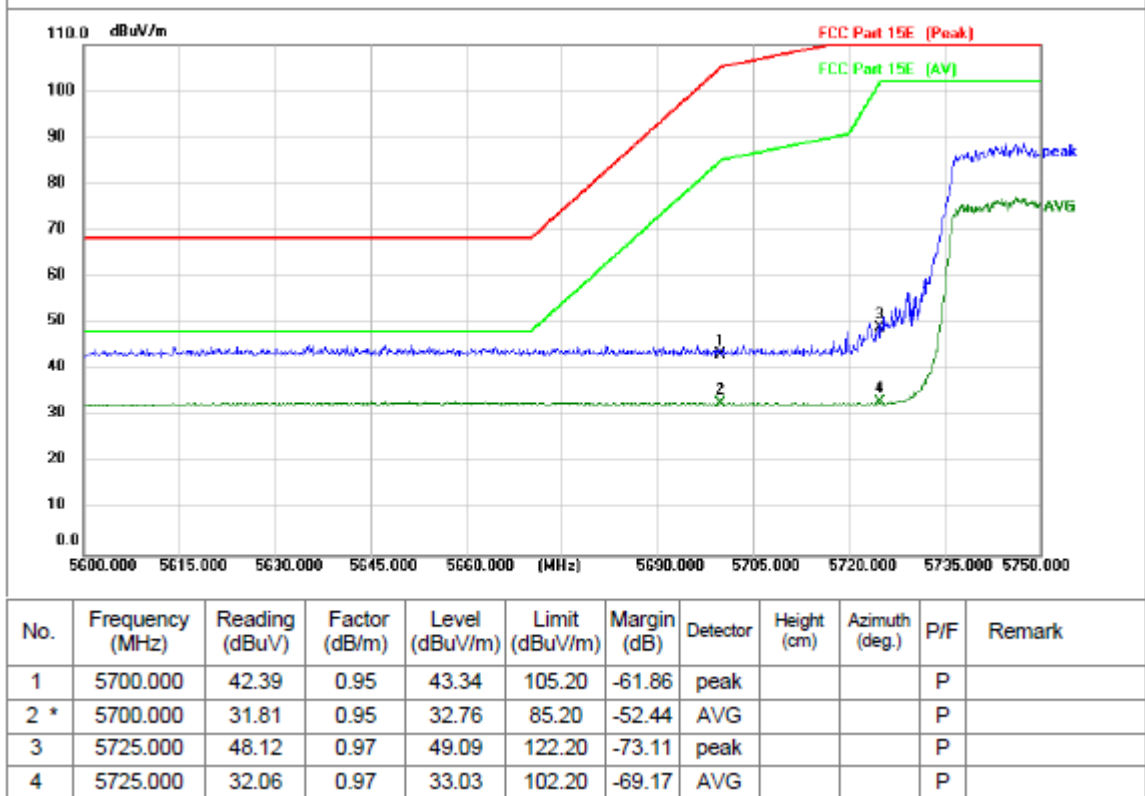
TM2 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 40 / CH: H



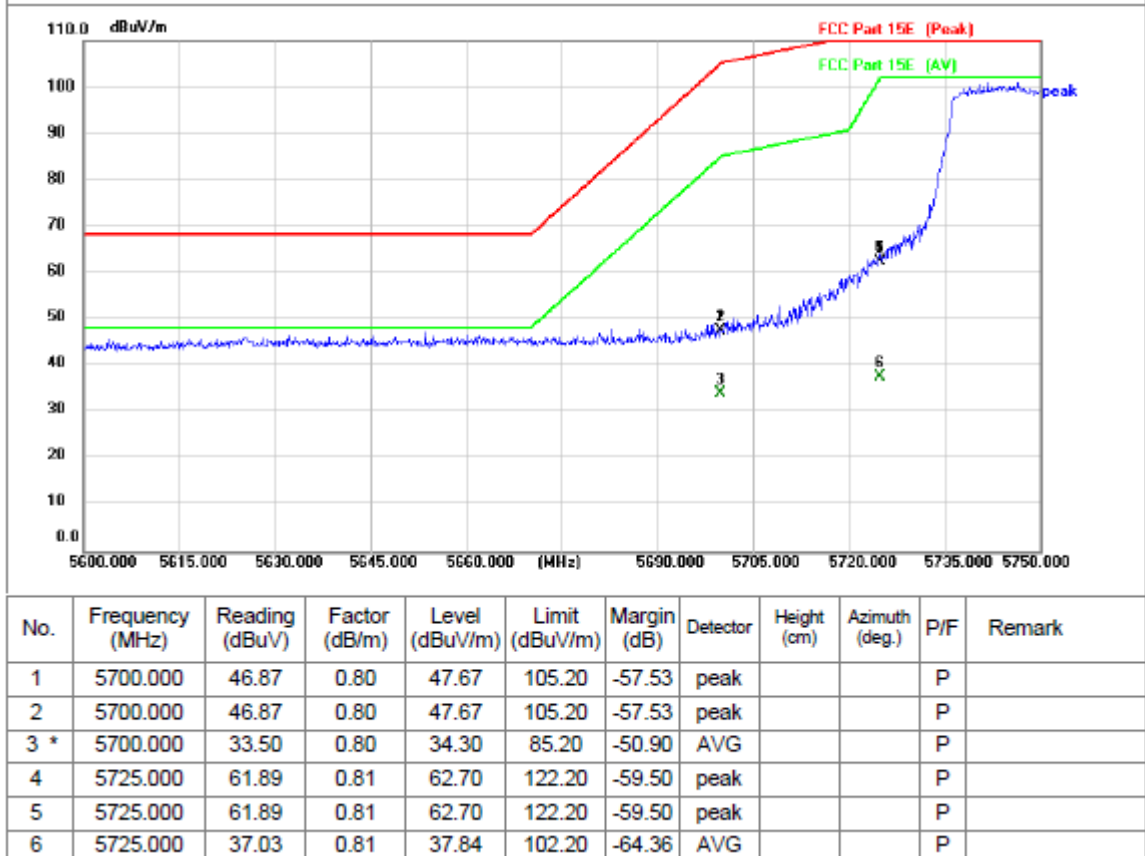
TM2 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 40 / CH: H



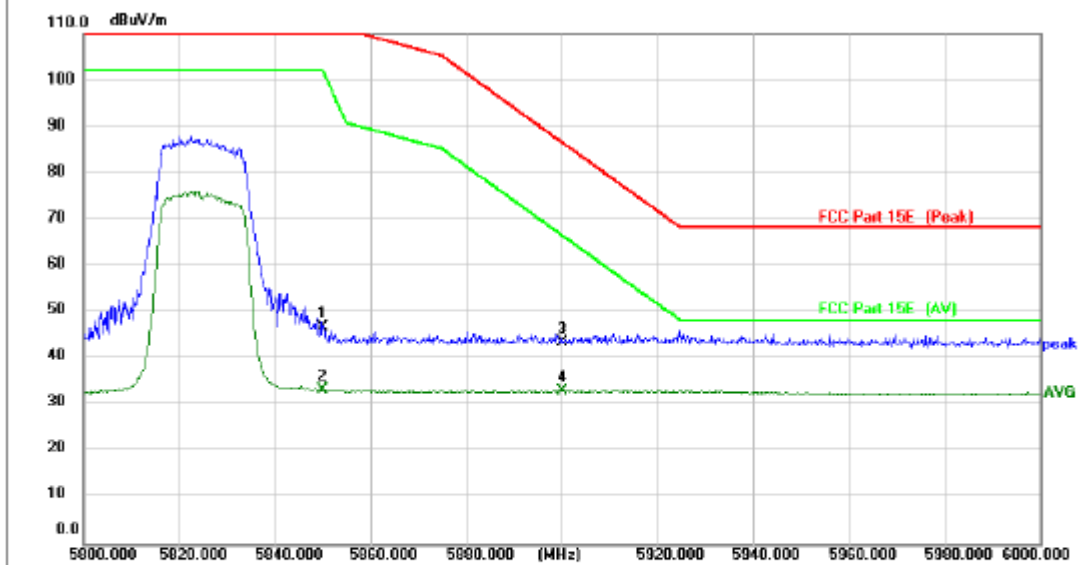
TM2 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: L



TM2 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: L

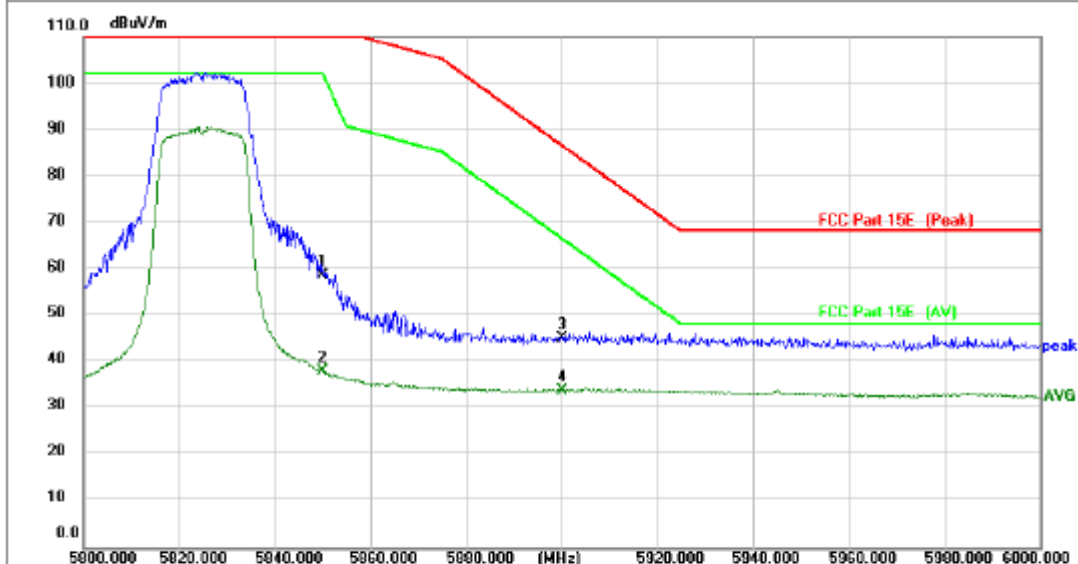


TM2 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: H



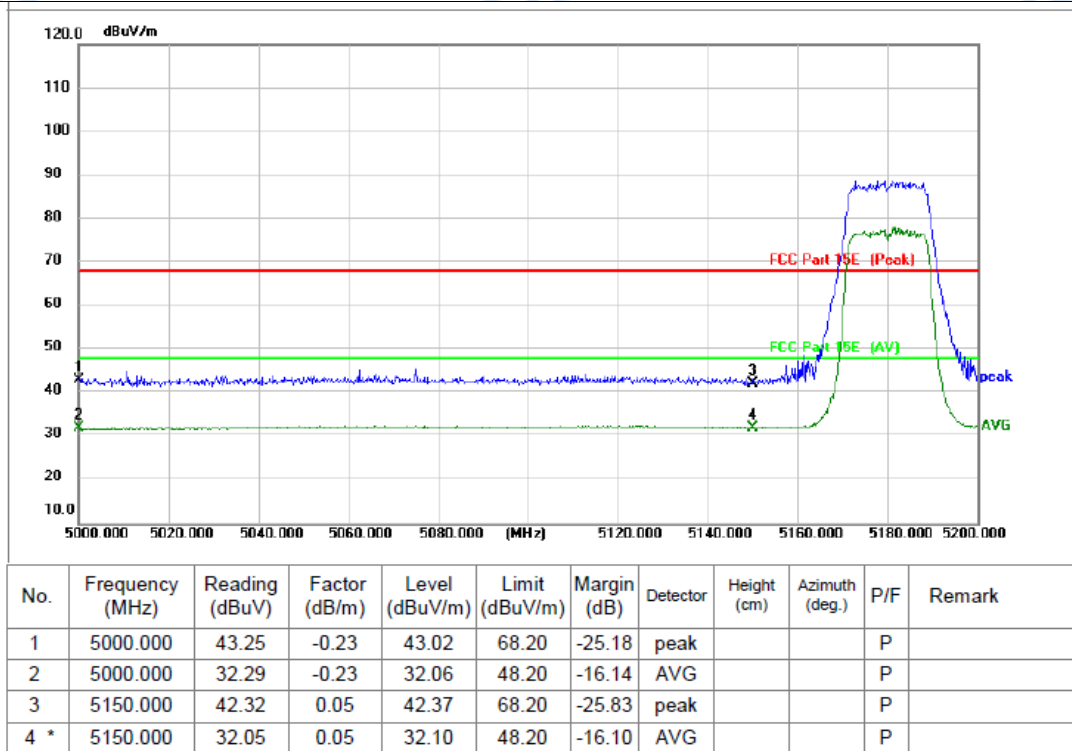
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5850.000	45.63	1.13	46.76	122.20	-75.44	peak			P	
2	5850.000	32.35	1.13	33.48	102.20	-68.72	AVG			P	
3	5900.000	42.37	1.18	43.55	86.66	-43.11	peak			P	
4 *	5900.000	31.87	1.18	33.05	66.66	-33.61	AVG			P	

TM2 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: H

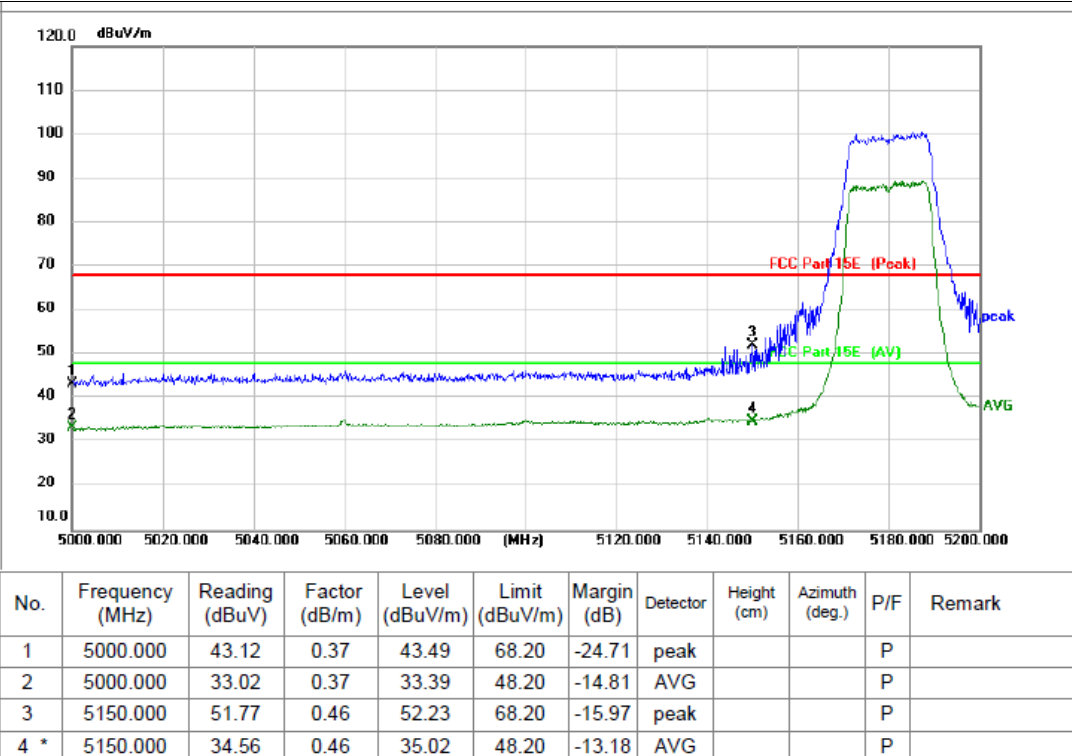


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5850.000	57.75	0.91	58.66	122.20	-63.54	peak			P	
2	5850.000	37.12	0.91	38.03	102.20	-64.17	AVG			P	
3	5900.000	44.25	0.93	45.18	86.66	-41.48	peak			P	
4 *	5900.000	33.04	0.93	33.97	66.66	-32.69	AVG			P	

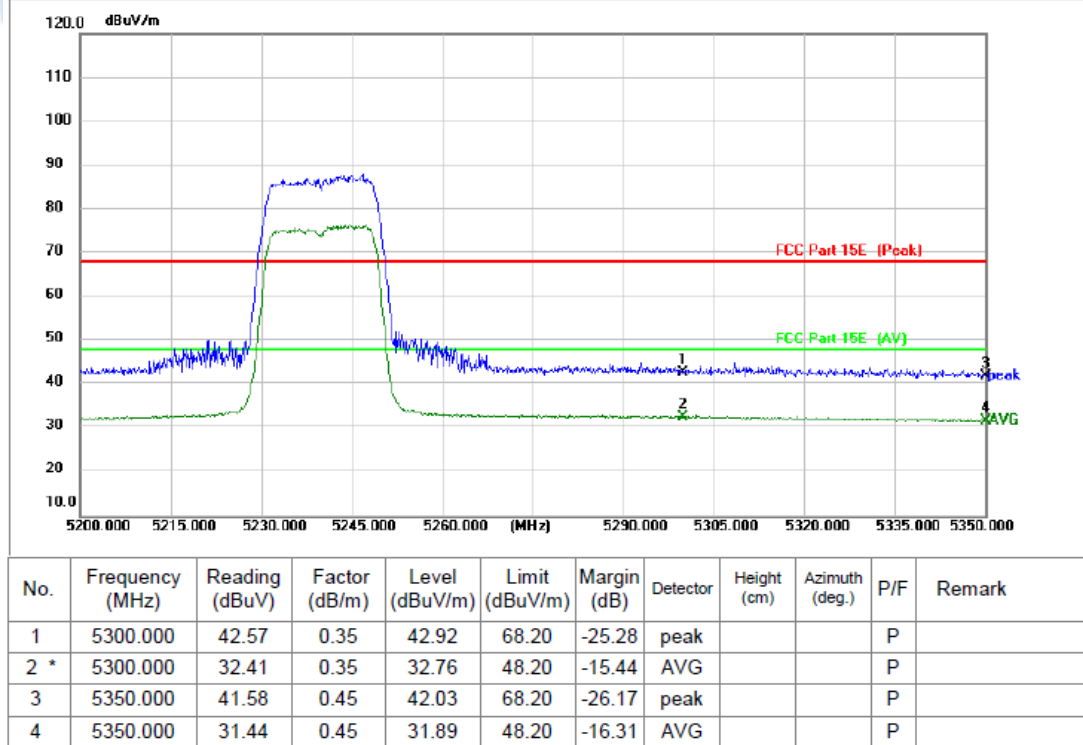
TM3 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: L



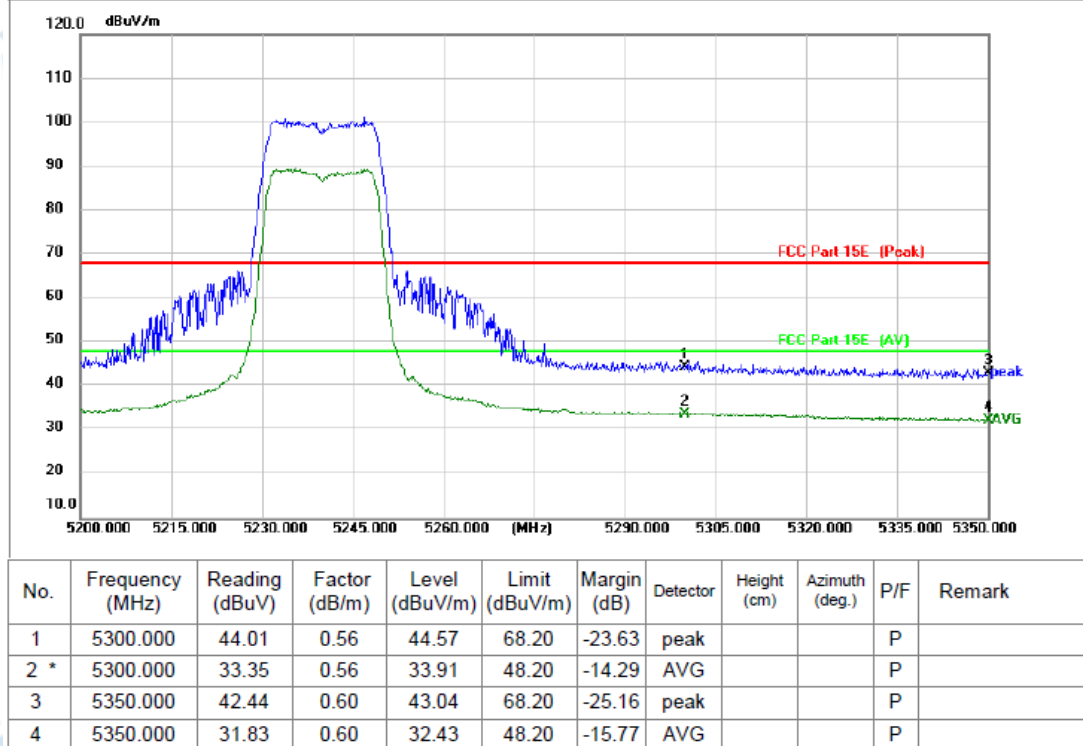
TM3 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: L



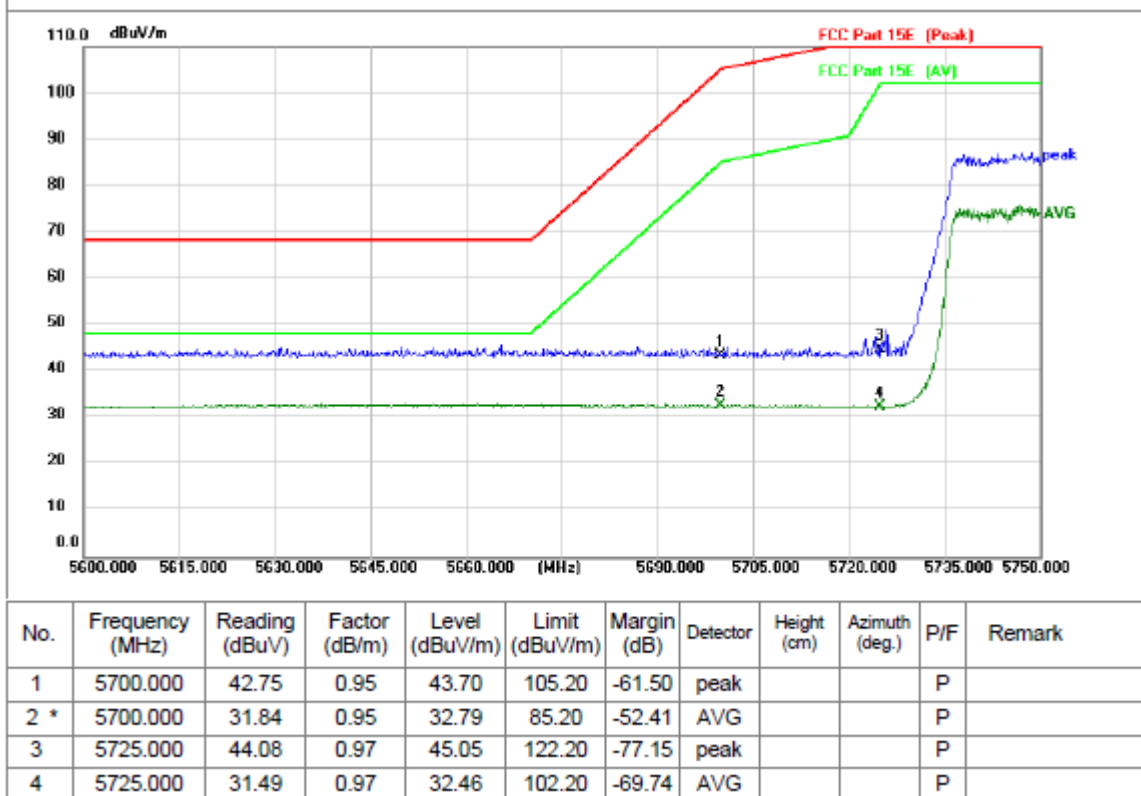
TM3 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: H



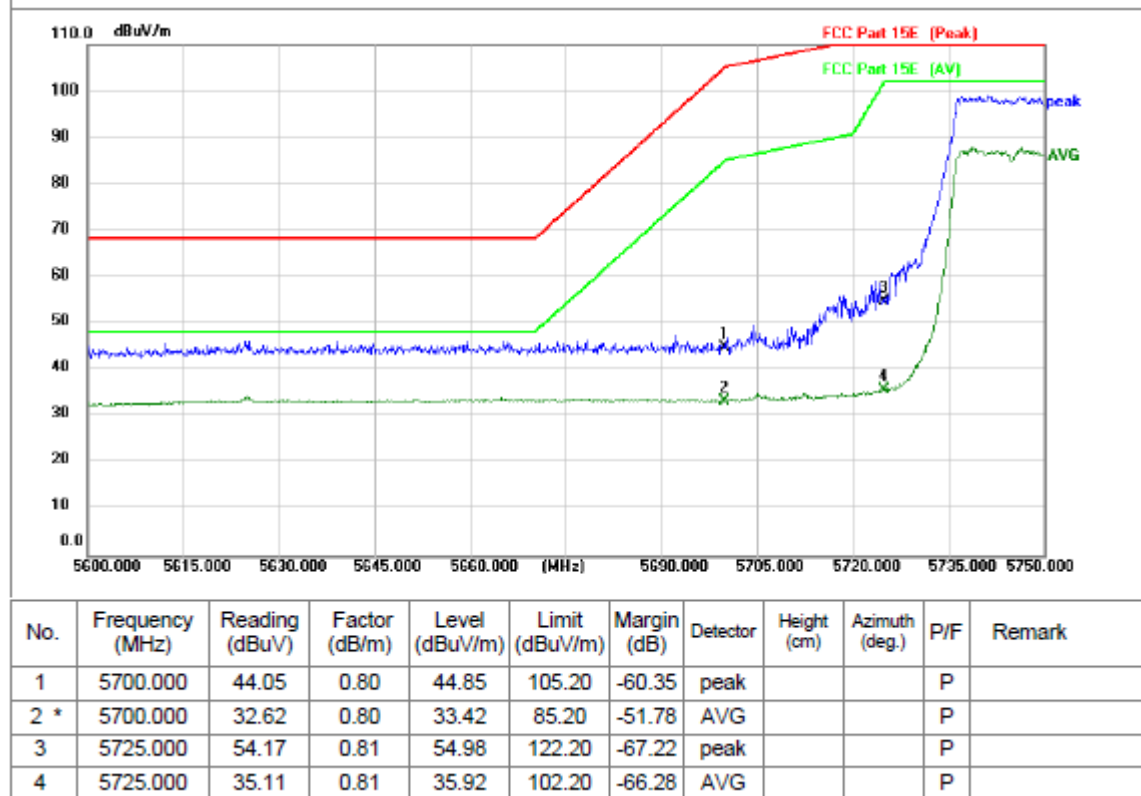
TM3 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: H



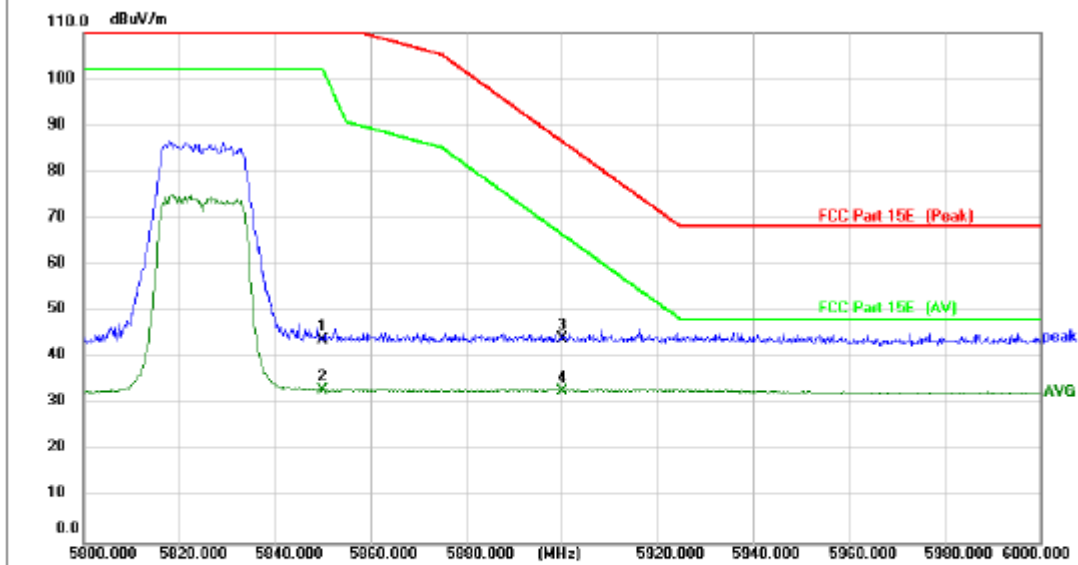
TM3 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: L



TM3 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: L

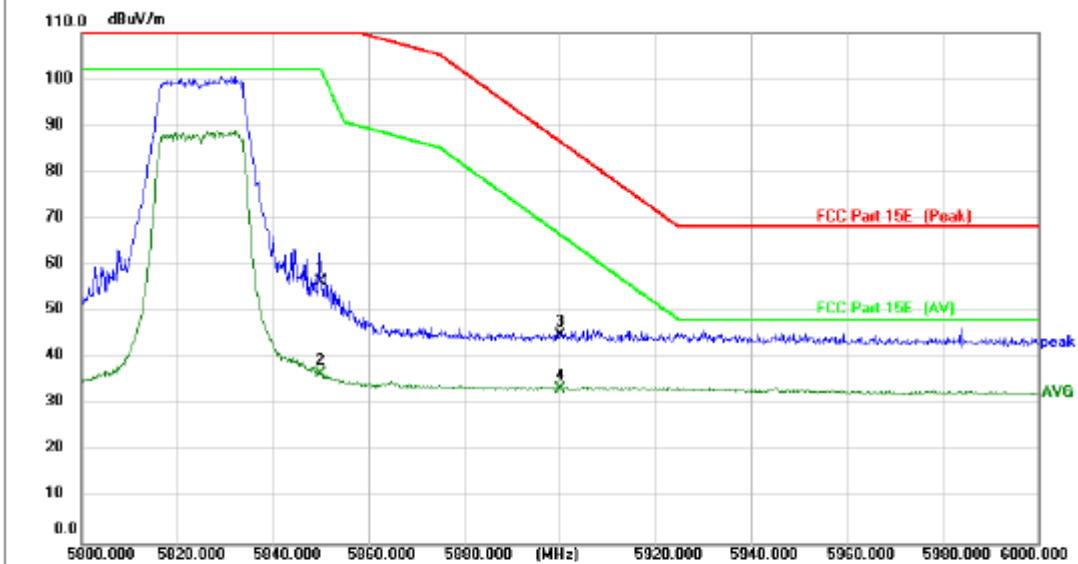


TM3 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: H



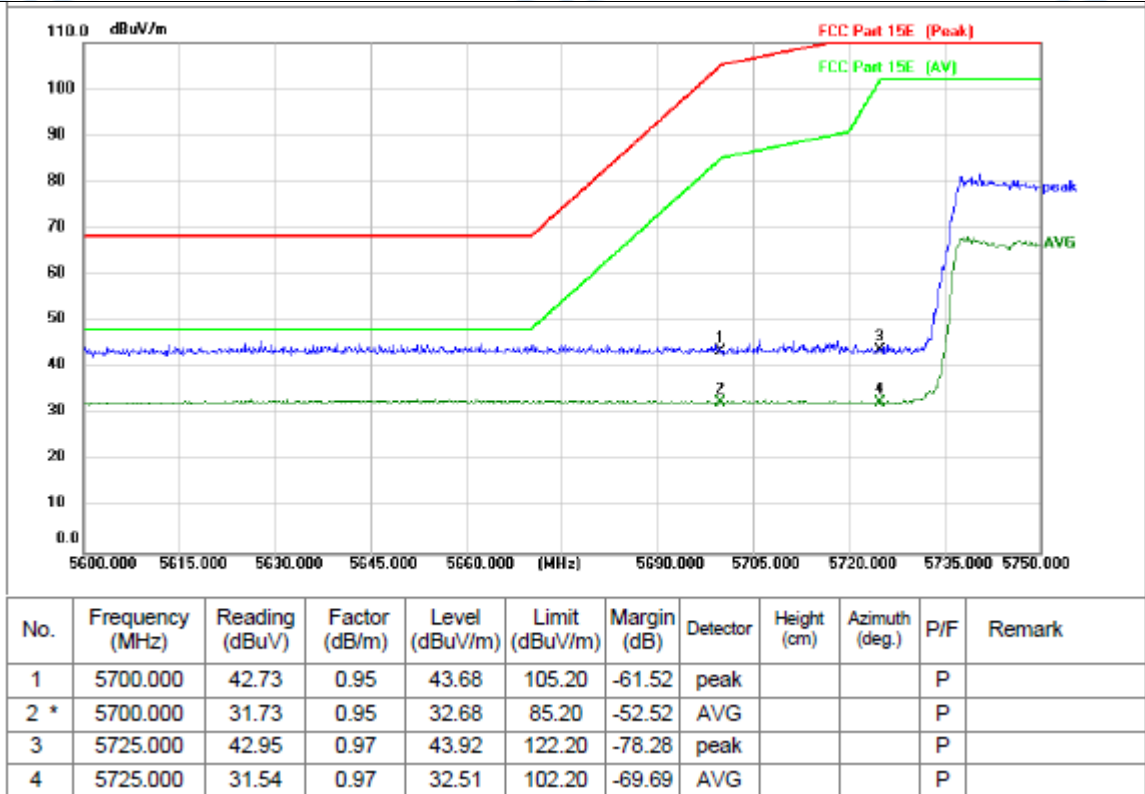
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5850.000	42.86	1.13	43.99	122.20	-78.21	peak			P	
2	5850.000	31.88	1.13	33.01	102.20	-69.19	AVG			P	
3	5900.000	42.90	1.18	44.08	86.66	-42.58	peak			P	
4 *	5900.000	31.75	1.18	32.93	66.66	-33.73	AVG			P	

TM3 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: H

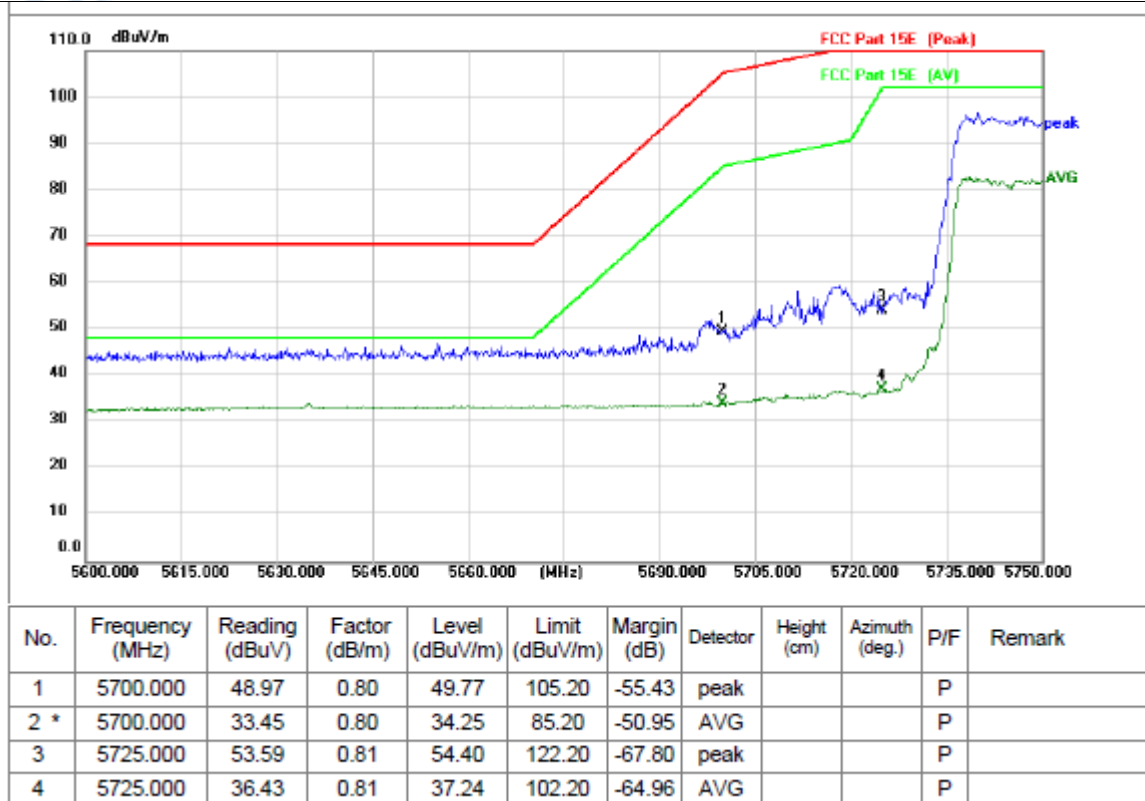


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5850.000	55.64	0.91	56.55	122.20	-65.65	peak			P	
2	5850.000	35.74	0.91	36.65	102.20	-65.55	AVG			P	
3	5900.000	44.00	0.93	44.93	86.66	-41.73	peak			P	
4 *	5900.000	32.57	0.93	33.50	66.66	-33.16	AVG			P	

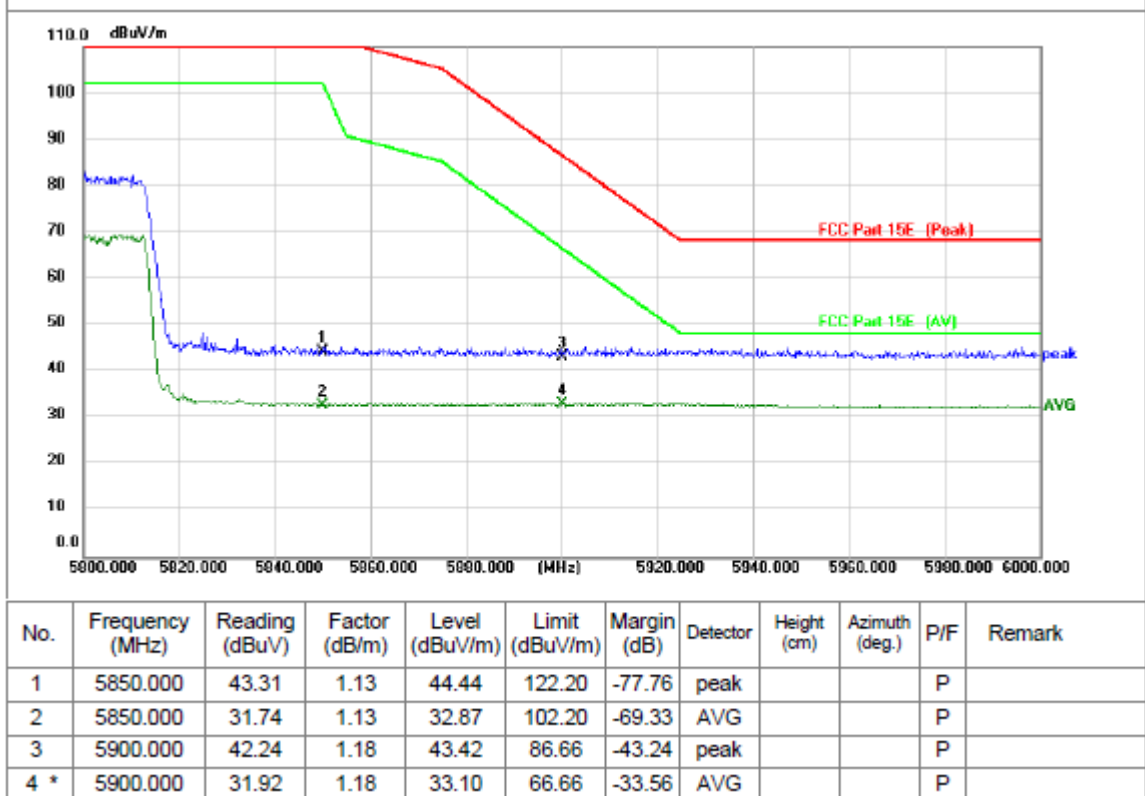
TM3 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 40 / CH: L



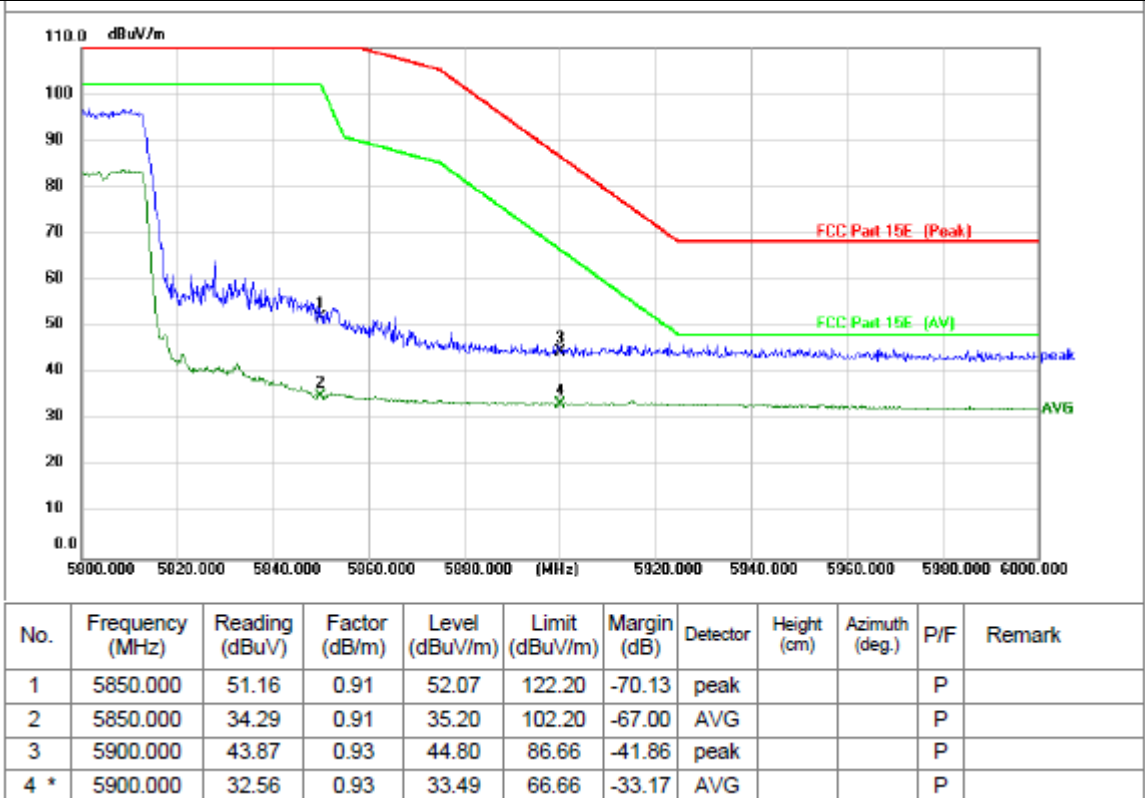
TM3 / Polarization: Vertical / Band: 5725-585 MHz / BW: 40 / CH: L



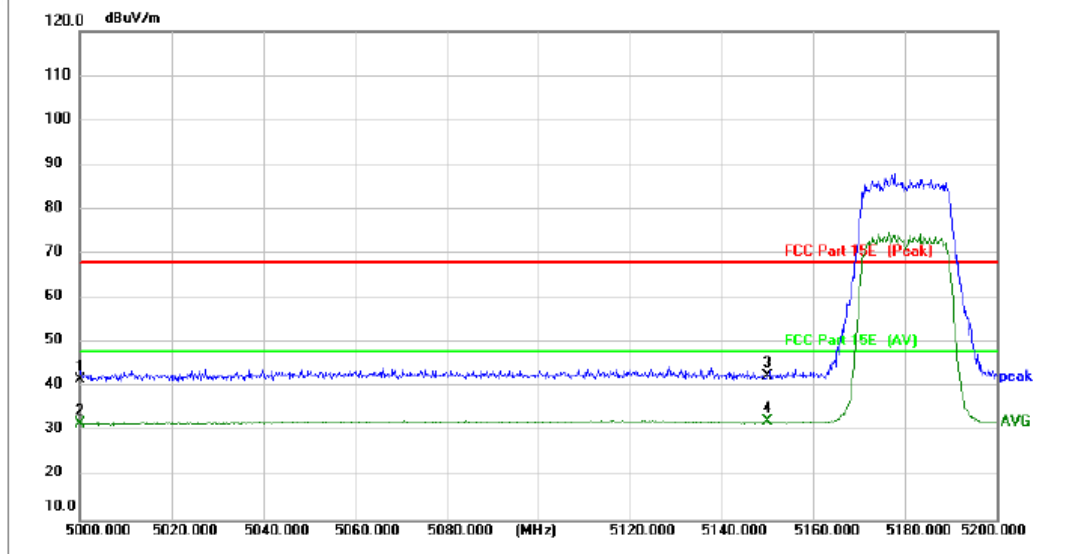
TM3 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 40 / CH: H



TM3 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 40 / CH: H

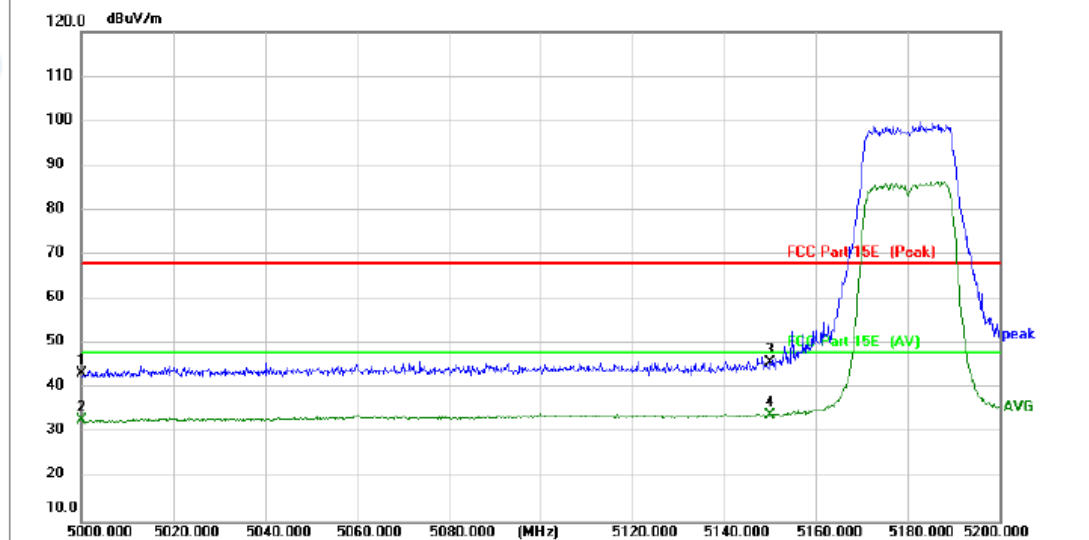


TM4 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: L



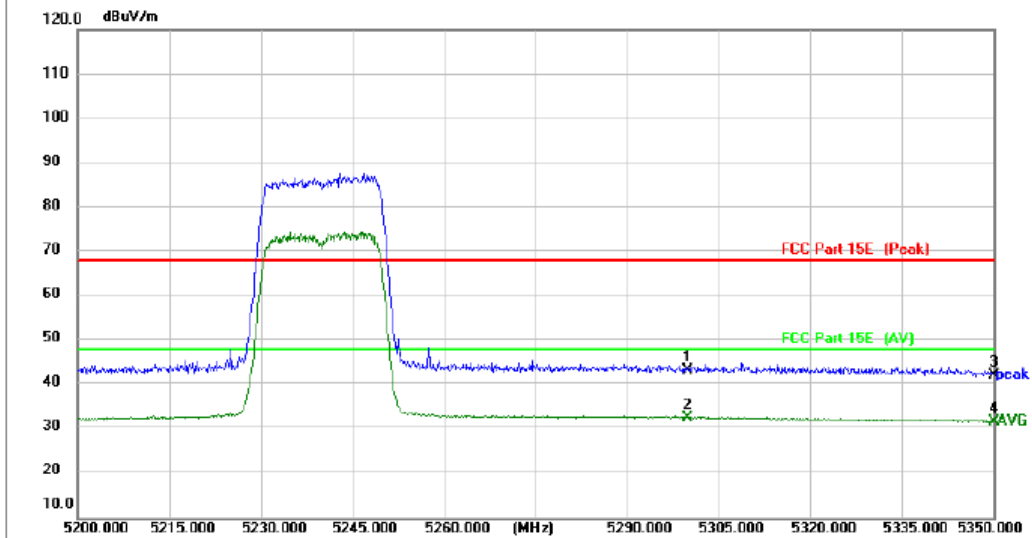
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5000.000	42.11	-0.23	41.88	68.20	-26.32	peak			P	
2	5000.000	32.23	-0.23	32.00	48.20	-16.20	AVG			P	
3	5150.000	42.51	0.05	42.56	68.20	-25.64	peak			P	
4 *	5150.000	32.35	0.05	32.40	48.20	-15.80	AVG			P	

TM4 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: L



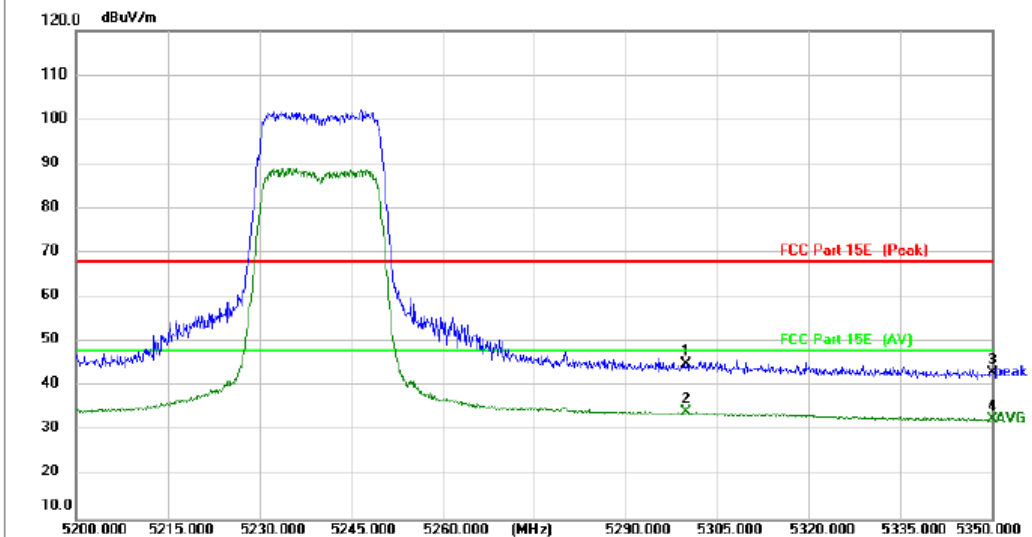
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5000.000	42.96	0.37	43.33	68.20	-24.87	peak			P	
2	5000.000	32.56	0.37	32.93	48.20	-15.27	AVG			P	
3	5150.000	45.32	0.46	45.78	68.20	-22.42	peak			P	
4 *	5150.000	33.60	0.46	34.06	48.20	-14.14	AVG			P	

TM4 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: H



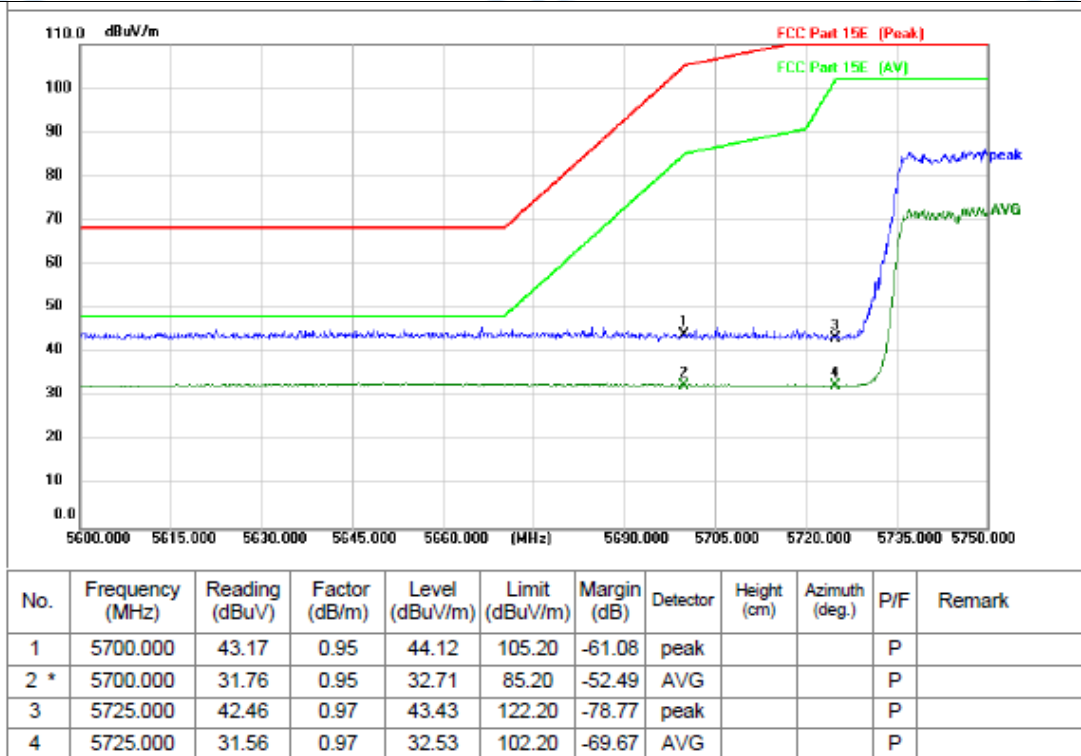
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5300.000	43.18	0.35	43.53	68.20	-24.67	peak			P	
2 *	5300.000	32.46	0.35	32.81	48.20	-15.39	AVG			P	
3	5350.000	41.96	0.45	42.41	68.20	-25.79	peak			P	
4	5350.000	31.44	0.45	31.89	48.20	-16.31	AVG			P	

TM4 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: H

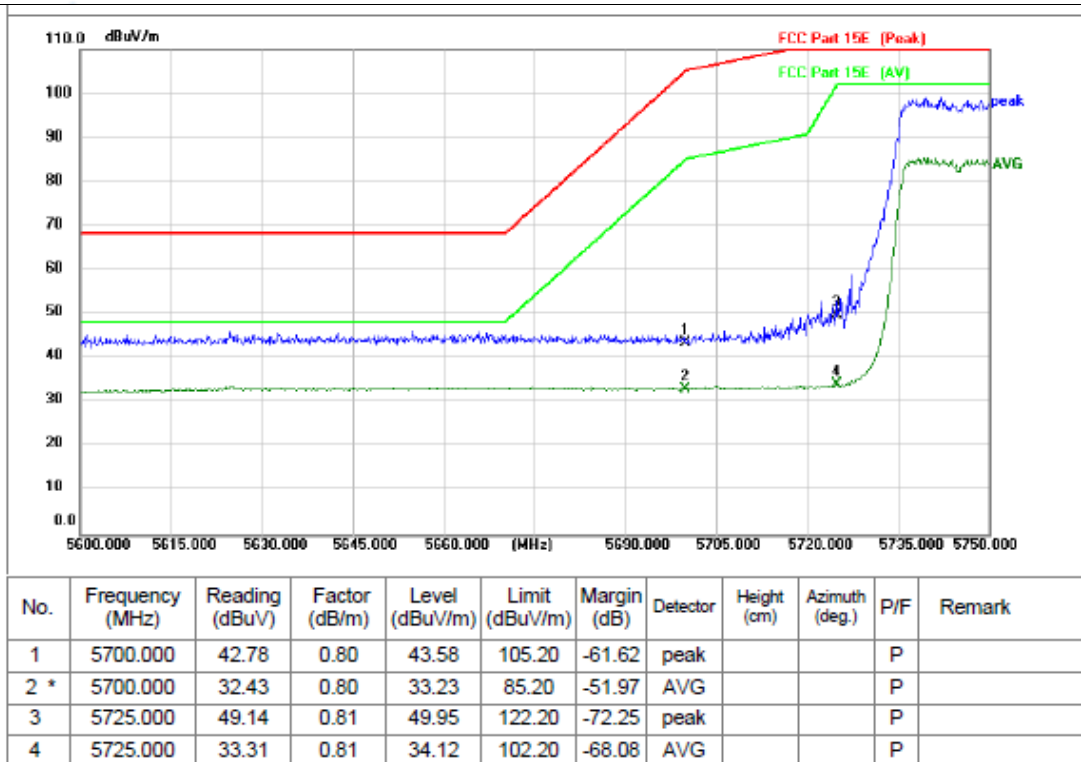


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5300.000	44.42	0.56	44.98	68.20	-23.22	peak			P	
2 *	5300.000	33.82	0.56	34.38	48.20	-13.82	AVG			P	
3	5350.000	42.64	0.60	43.24	68.20	-24.96	peak			P	
4	5350.000	31.97	0.60	32.57	48.20	-15.63	AVG			P	

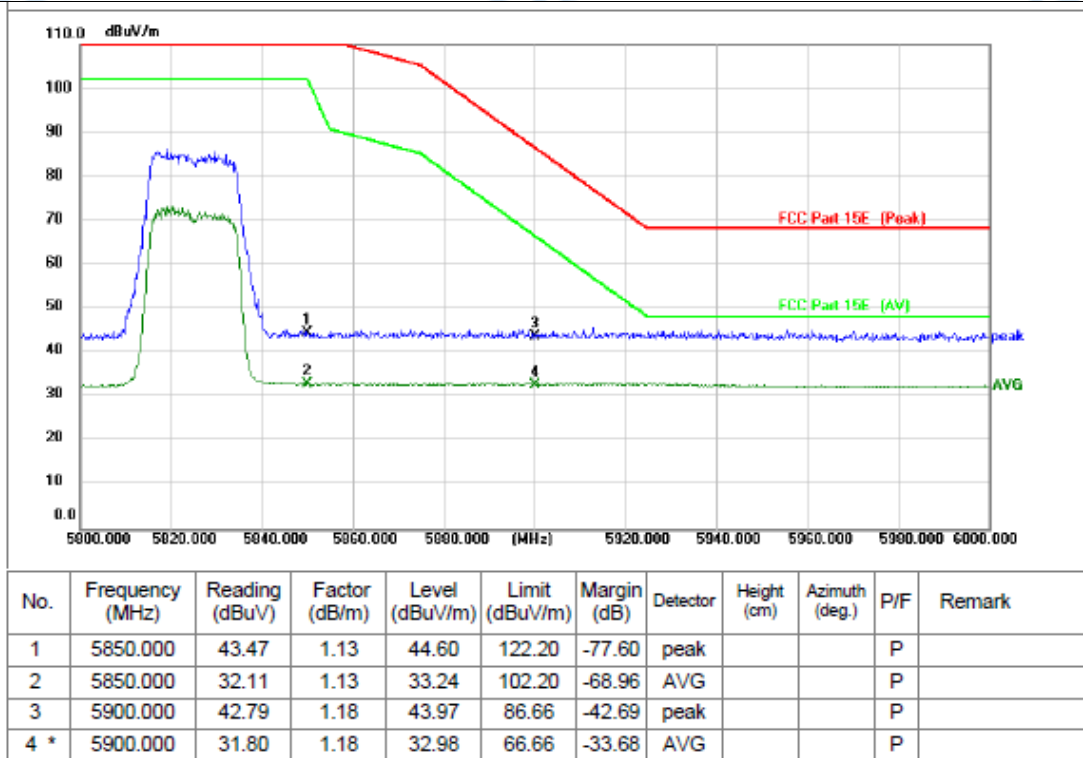
TM4 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: L



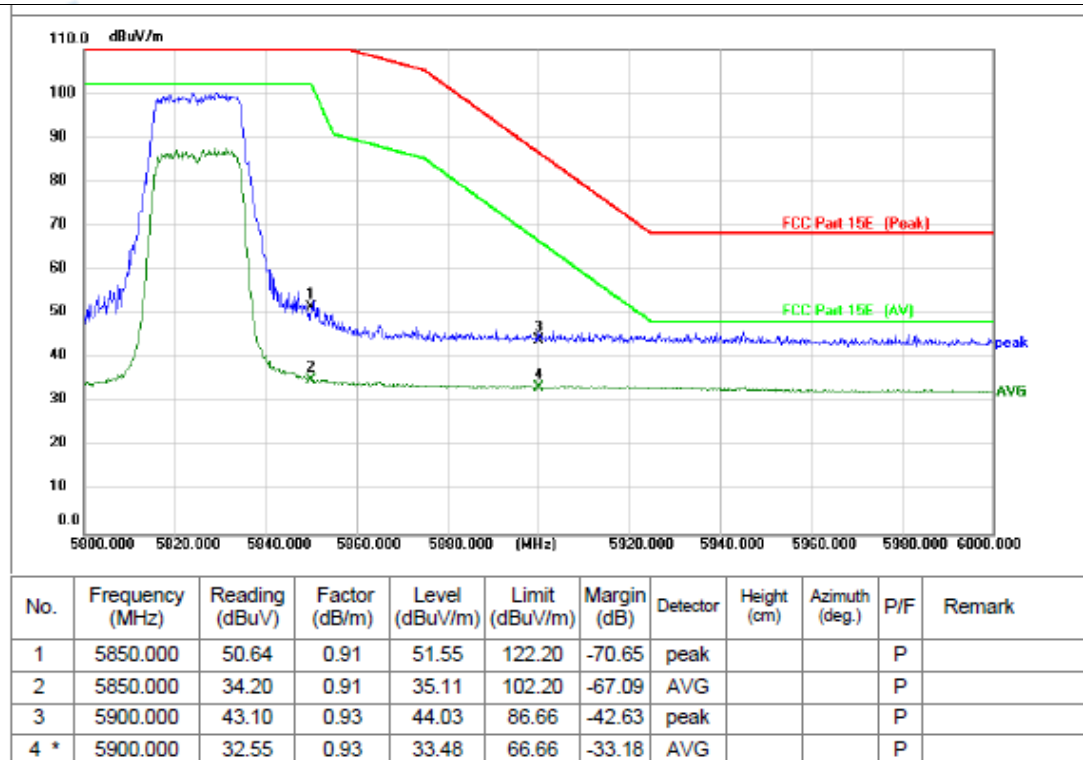
TM4 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: L



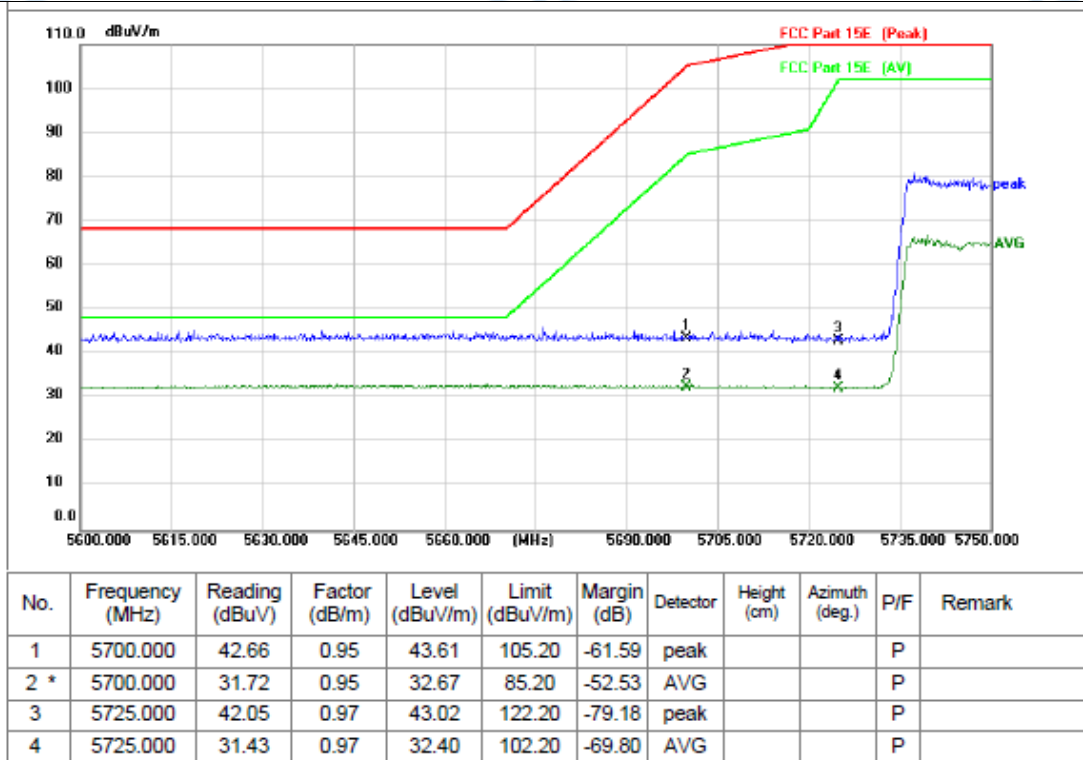
TM4 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: H



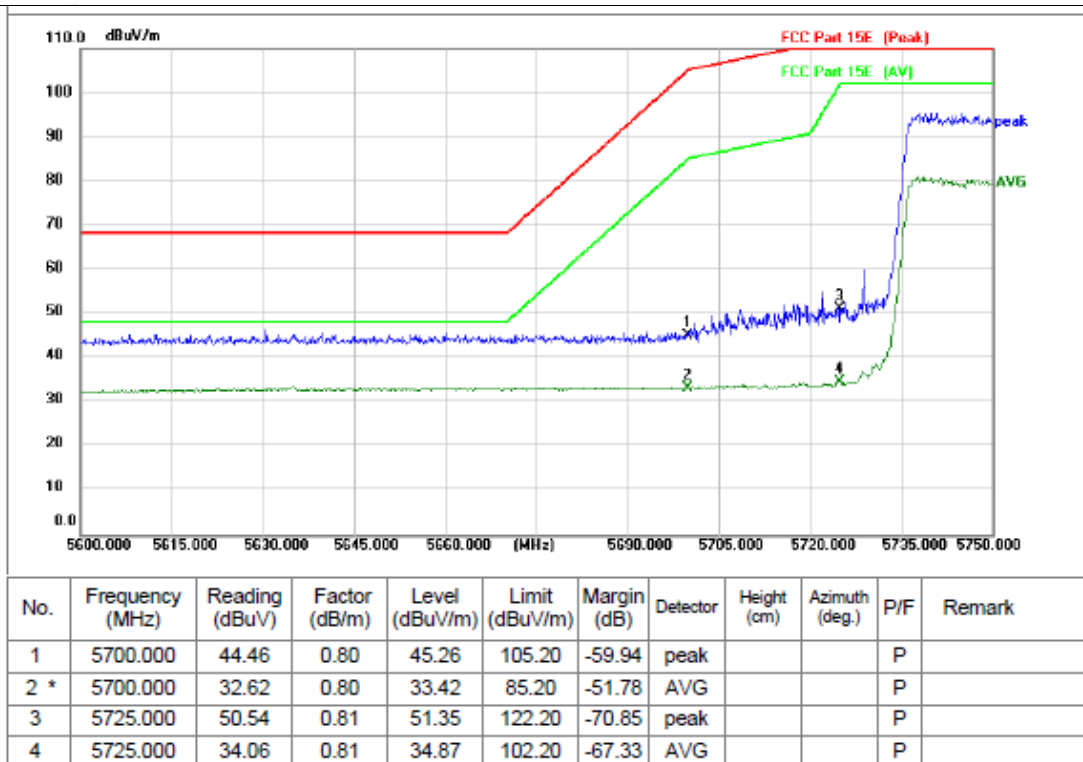
TM4 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: H



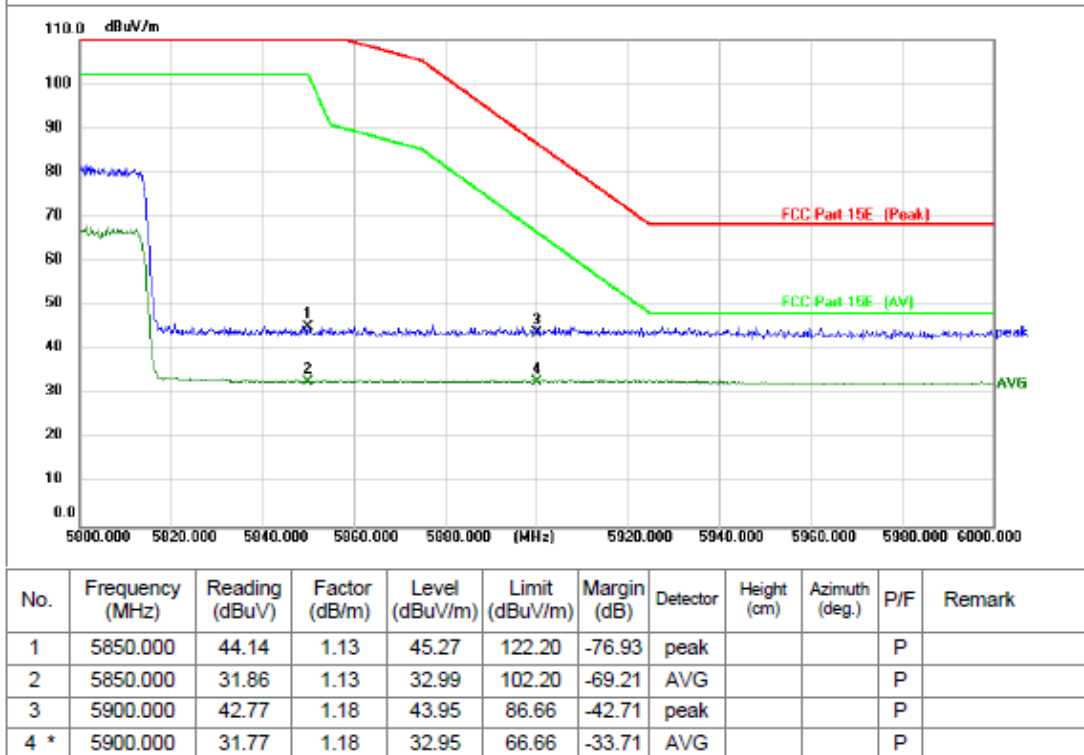
TM4 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 40 / CH: L



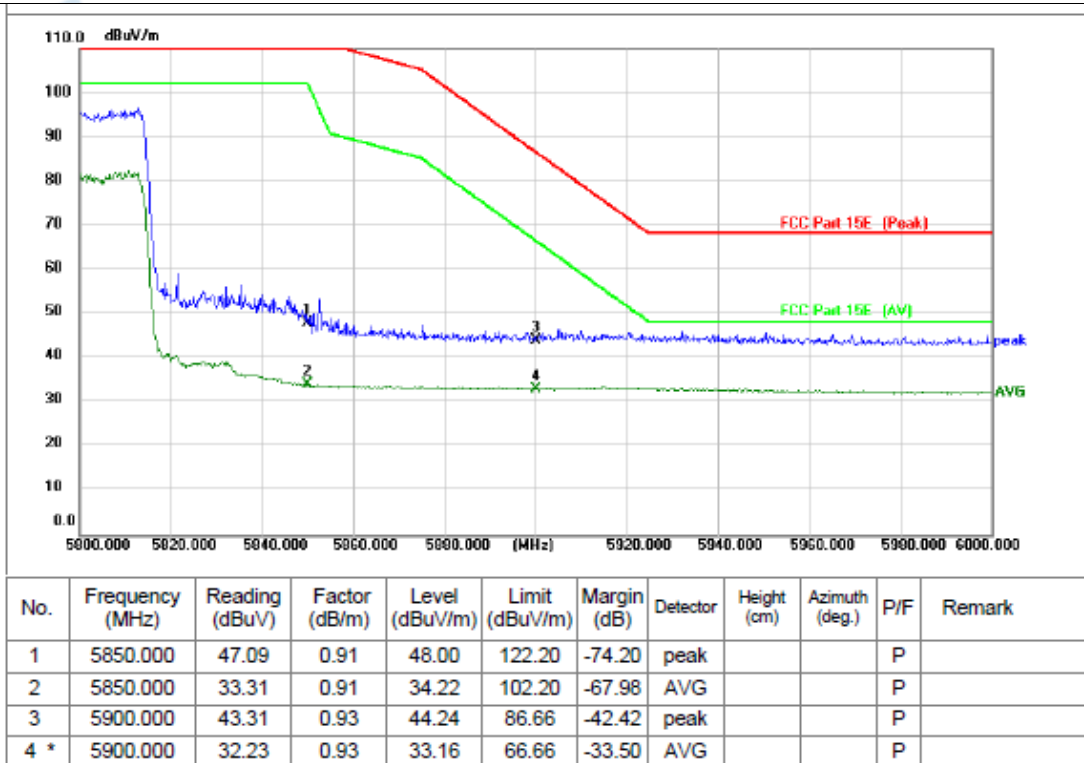
TM4 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 40 / CH: L



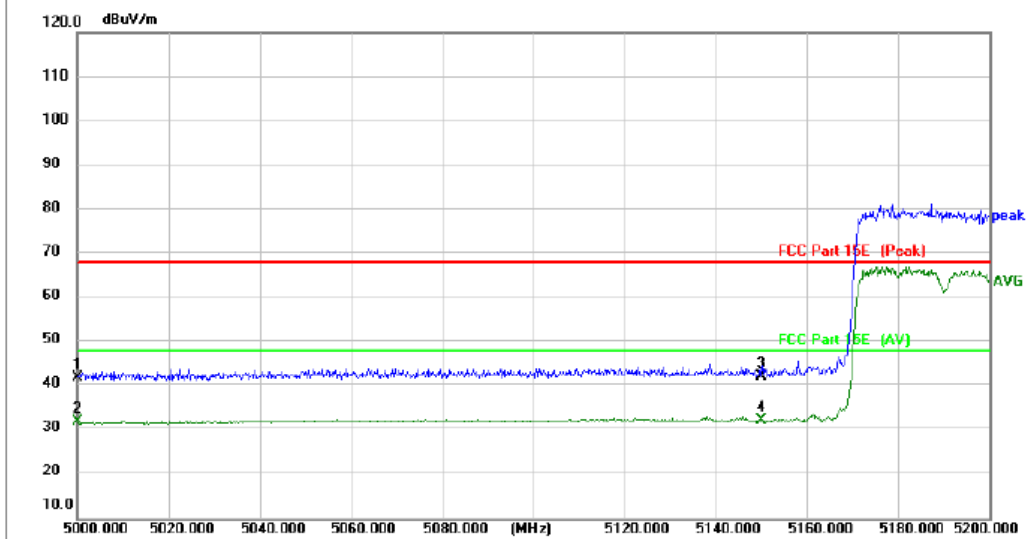
TM4 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 40 / CH: H



TM4 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 40 / CH: H

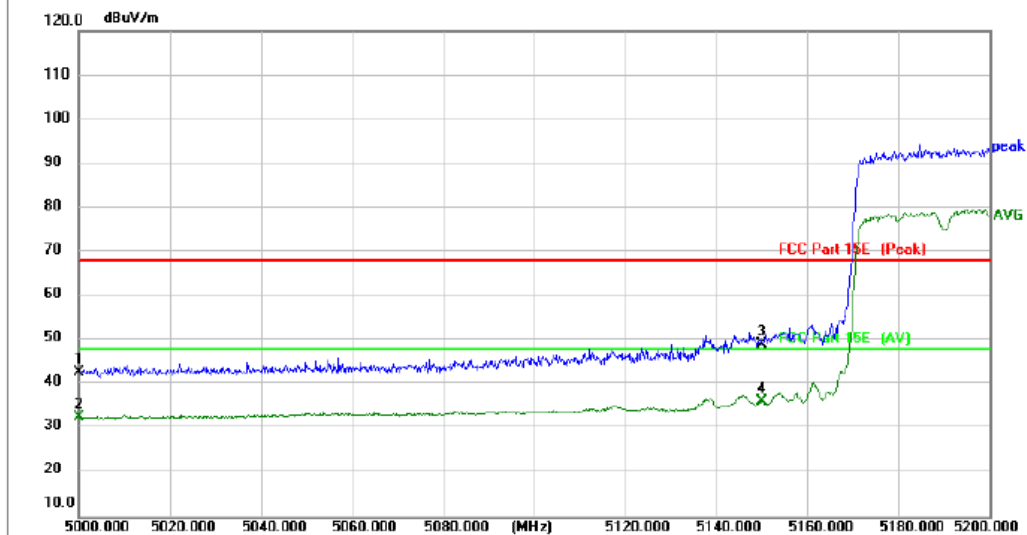


TM4 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 80



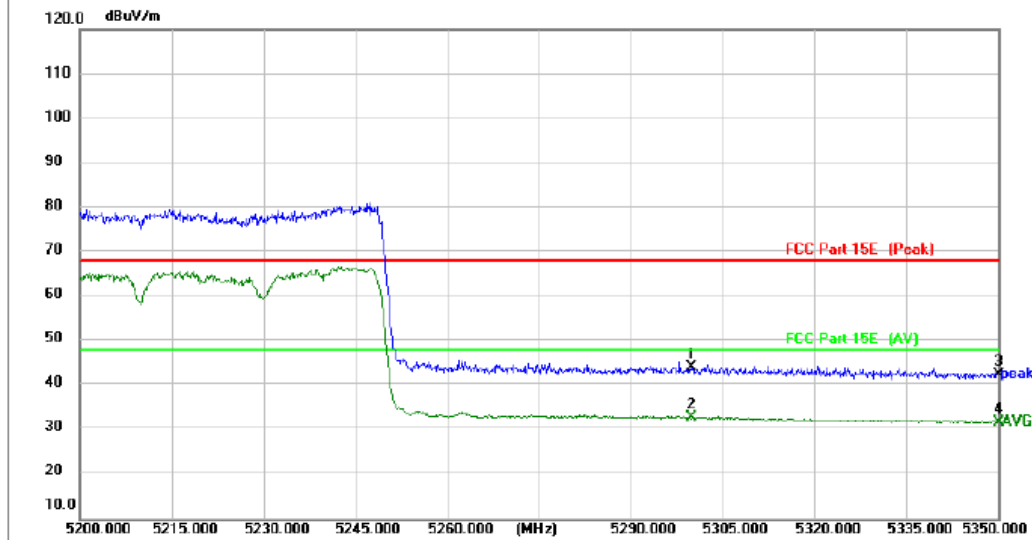
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5000.000	42.34	-0.23	42.11	68.20	-26.09	peak			P	
2	5000.000	32.33	-0.23	32.10	48.20	-16.10	AVG			P	
3	5150.000	42.30	0.05	42.35	68.20	-25.85	peak			P	
4 *	5150.000	32.33	0.05	32.38	48.20	-15.82	AVG			P	

TM4 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 80



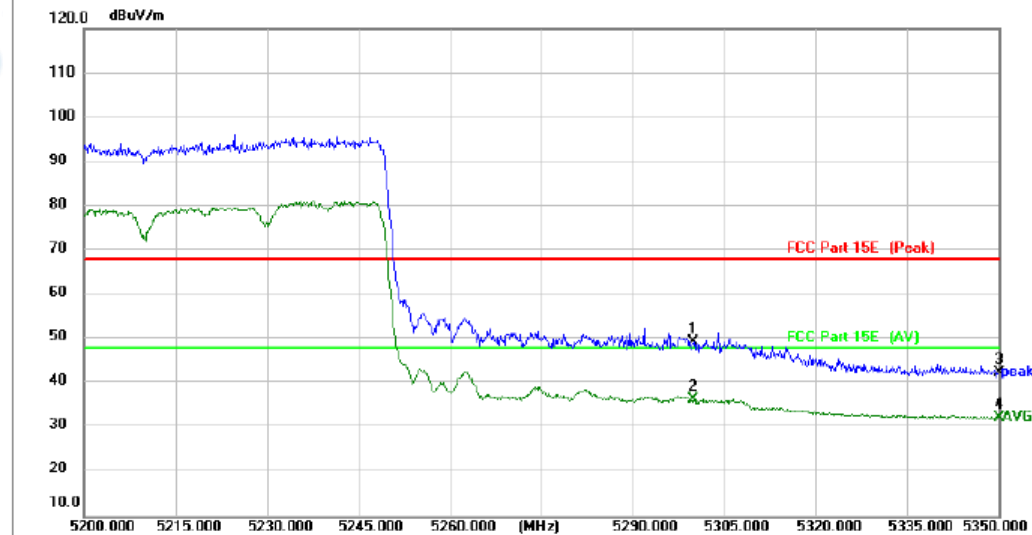
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5000.000	42.55	0.37	42.92	68.20	-25.28	peak			P	
2	5000.000	32.26	0.37	32.63	48.20	-15.57	AVG			P	
3	5150.000	48.69	0.46	49.15	68.20	-19.05	peak			P	
4 *	5150.000	35.69	0.46	36.15	48.20	-12.05	AVG			P	

TM4 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 80



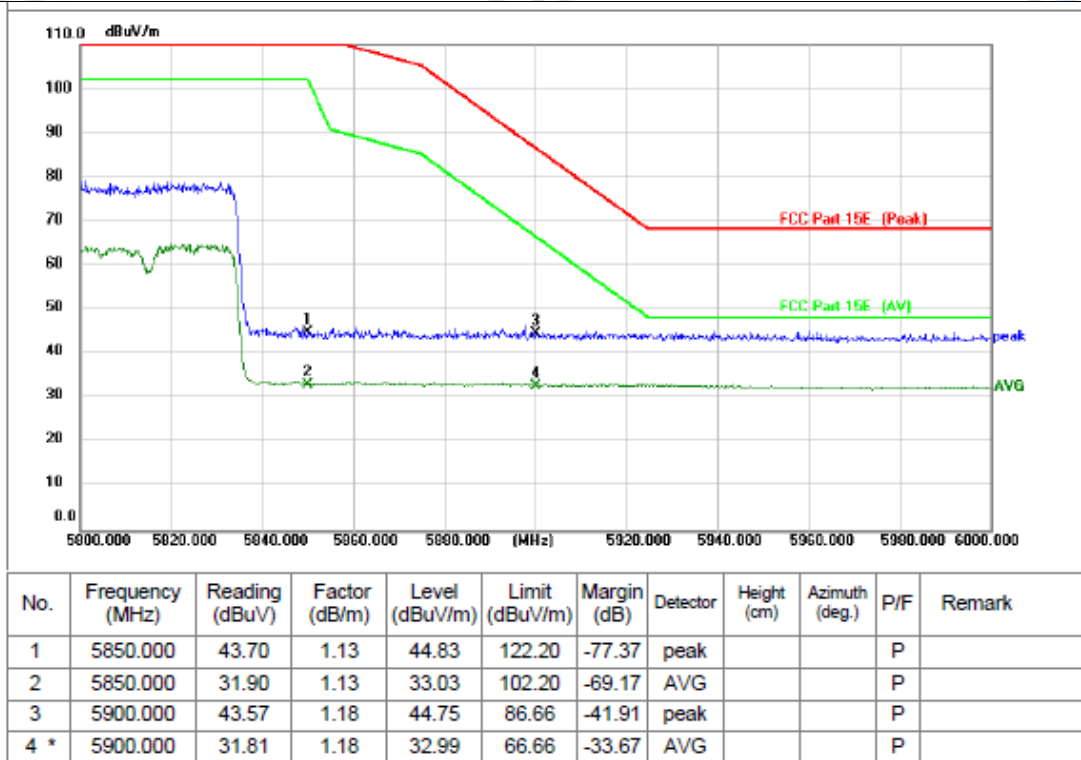
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5300.000	43.84	0.35	44.19	68.20	-24.01	peak			P	
2 *	5300.000	32.60	0.35	32.95	48.20	-15.25	AVG			P	
3	5350.000	42.19	0.45	42.64	68.20	-25.56	peak			P	
4	5350.000	31.52	0.45	31.97	48.20	-16.23	AVG			P	

TM4 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 80

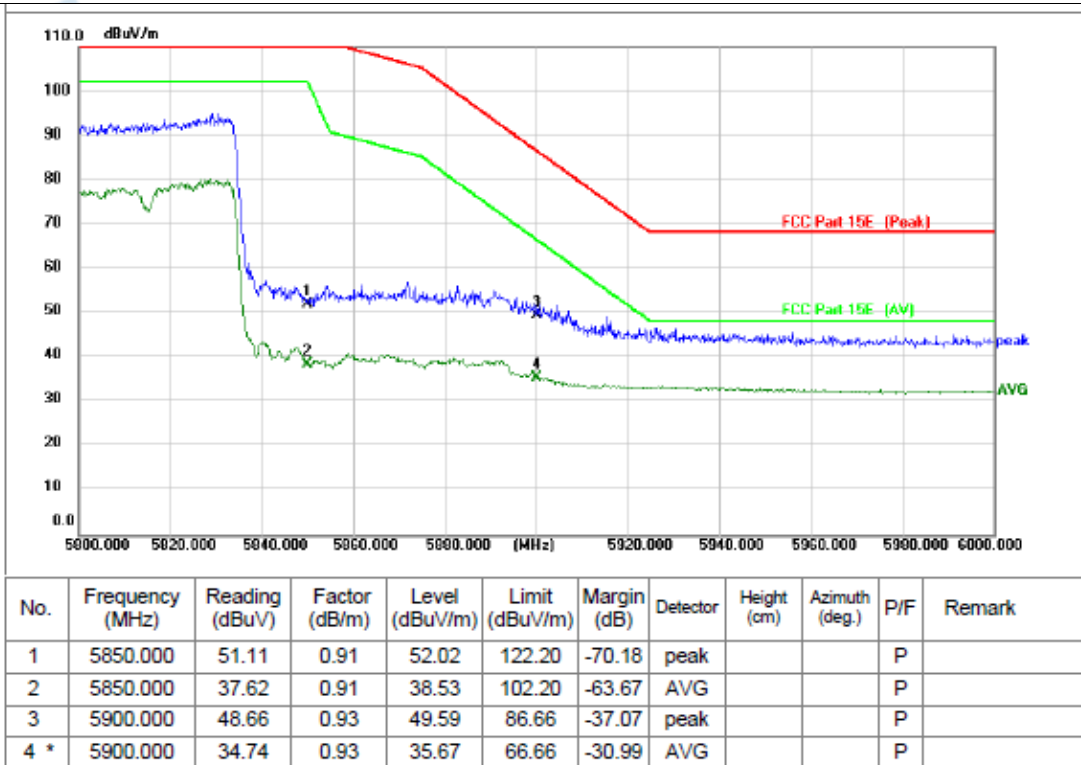


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5300.000	48.81	0.56	49.37	68.20	-18.83	peak			P	
2 *	5300.000	35.89	0.56	36.45	48.20	-11.75	AVG			P	
3	5350.000	41.95	0.60	42.55	68.20	-25.65	peak			P	
4	5350.000	31.72	0.60	32.32	48.20	-15.88	AVG			P	

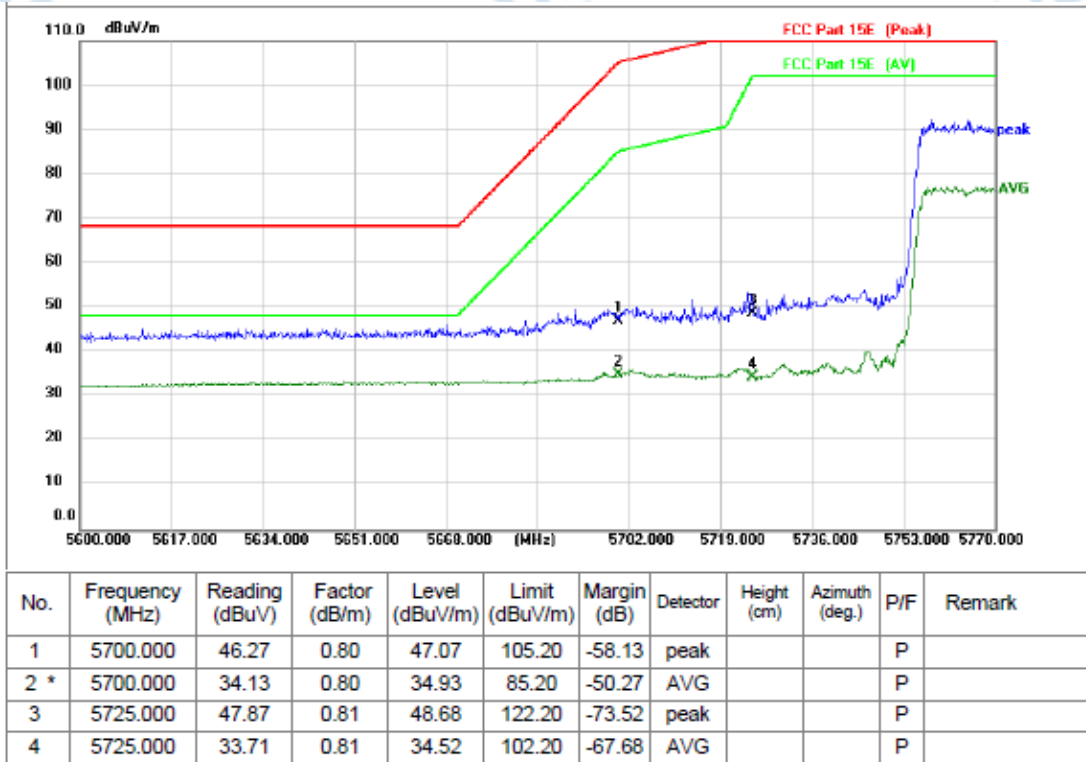
TM4 / Polarization: Horizontal / Band: 5725-5850MHz / BW:80



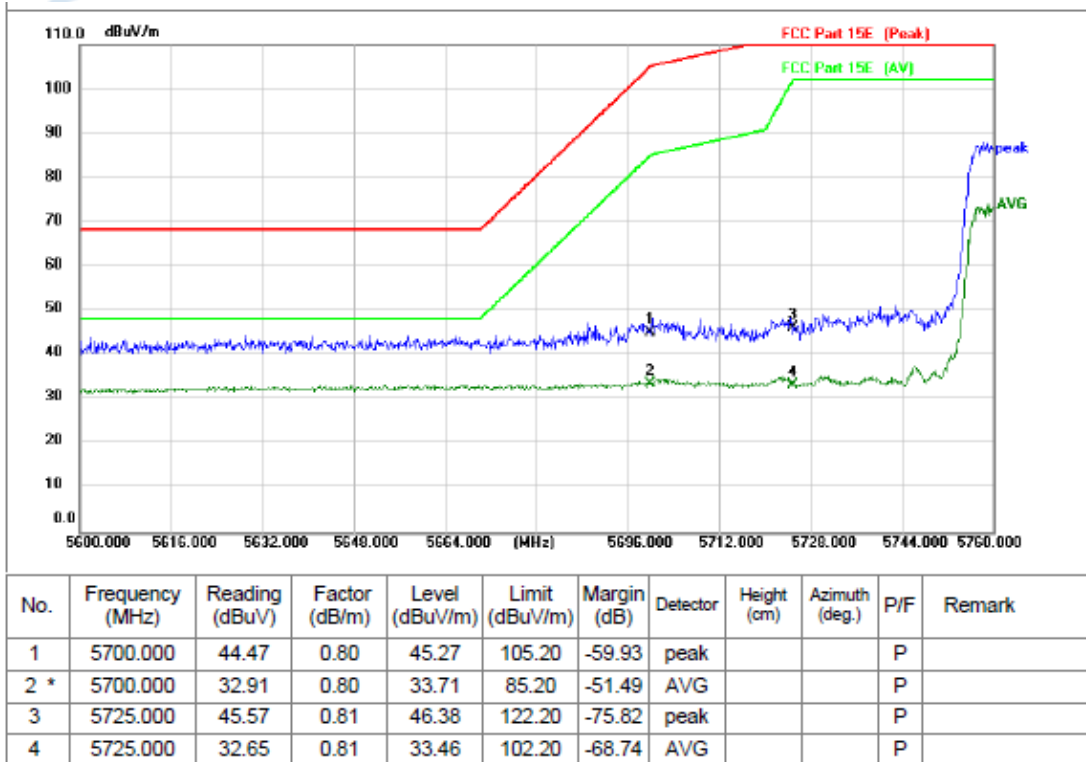
TM4 / Polarization: Vertical / Band: 5725-5850MHz / BW: 80



TM4 / Polarization: Horizontal / Band: 5725-5850MHz /BW:80

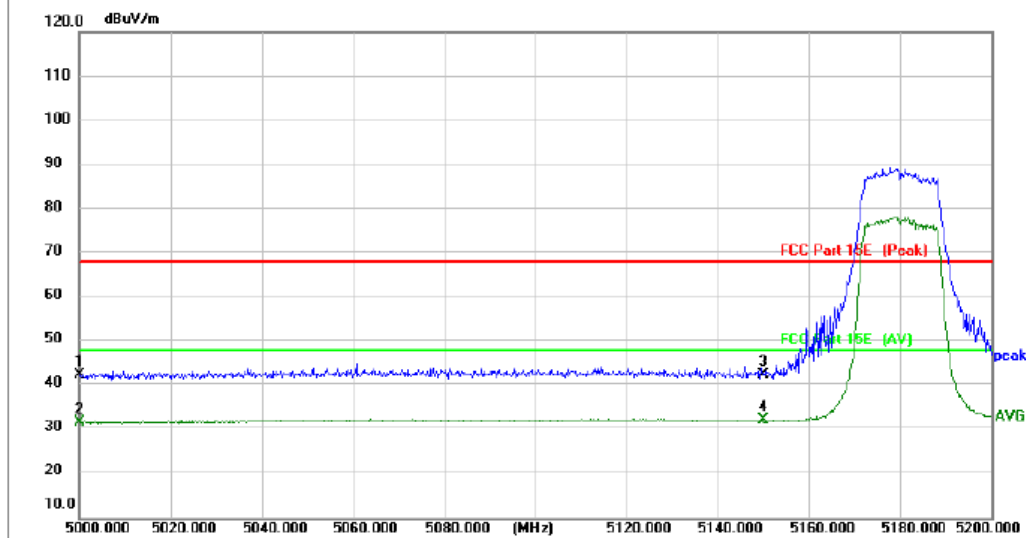


TM4 / Polarization: Vertical / Band: 5725-5850MHz / BW: 80



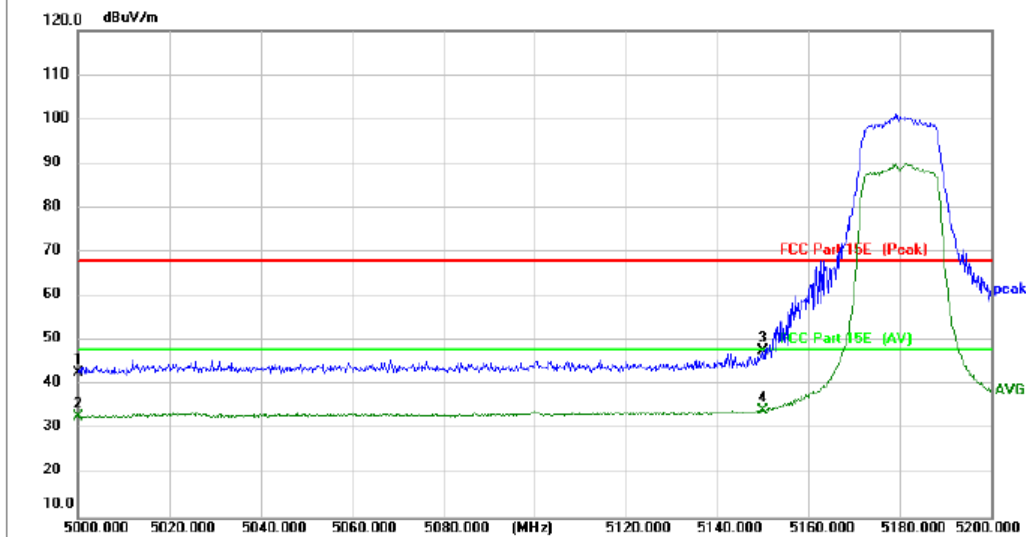
ANT3

TM1 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: L



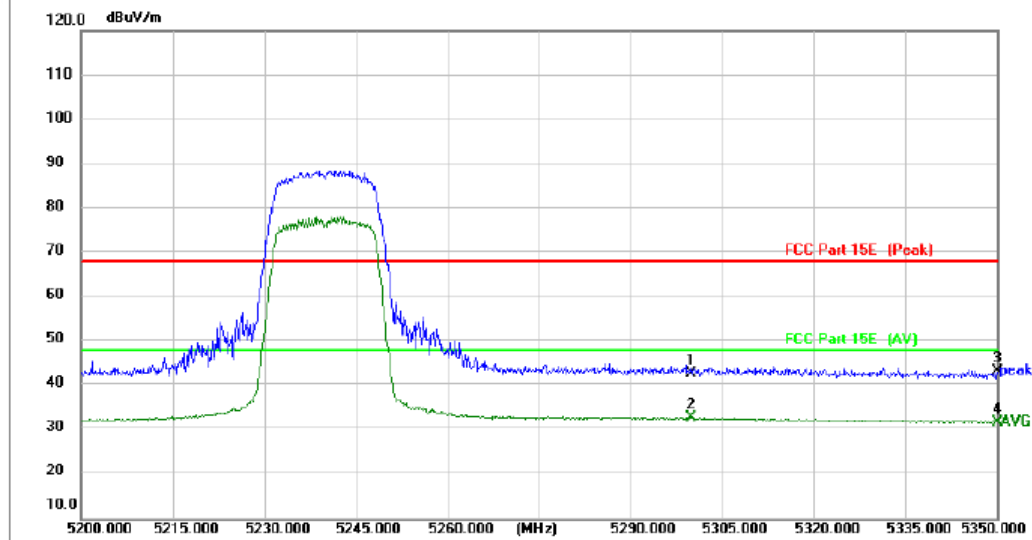
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5000.000	42.73	-0.23	42.50	68.20	-25.70	peak			P	
2	5000.000	32.17	-0.23	31.94	48.20	-16.26	AVG			P	
3	5150.000	42.47	0.05	42.52	68.20	-25.68	peak			P	
4 *	5150.000	32.25	0.05	32.30	48.20	-15.90	AVG			P	

TM1 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: L



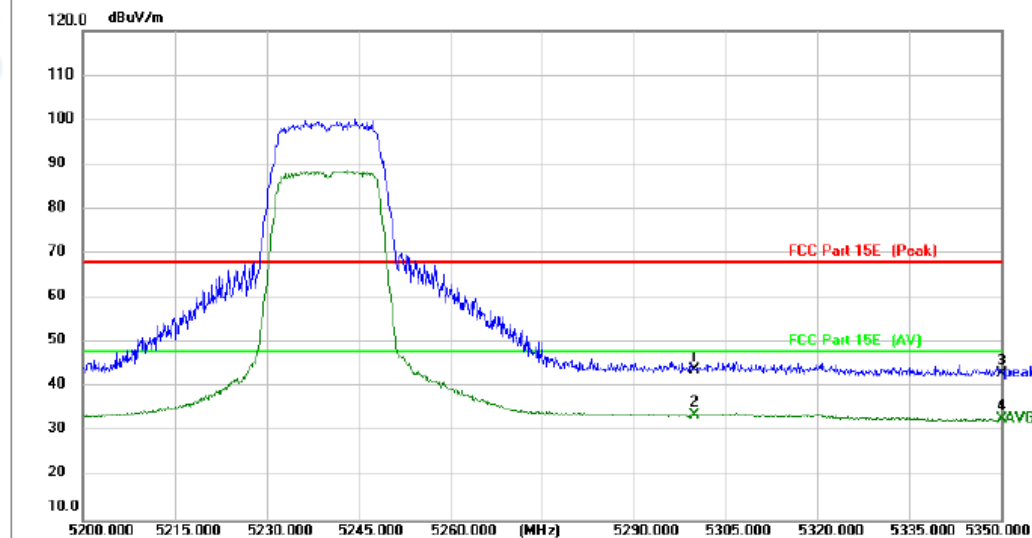
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5000.000	42.39	0.37	42.76	68.20	-25.44	peak			P	
2	5000.000	32.54	0.37	32.91	48.20	-15.29	AVG			P	
3	5150.000	47.37	0.46	47.83	68.20	-20.37	peak			P	
4 *	5150.000	33.94	0.46	34.40	48.20	-13.80	AVG			P	

TM1 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: H



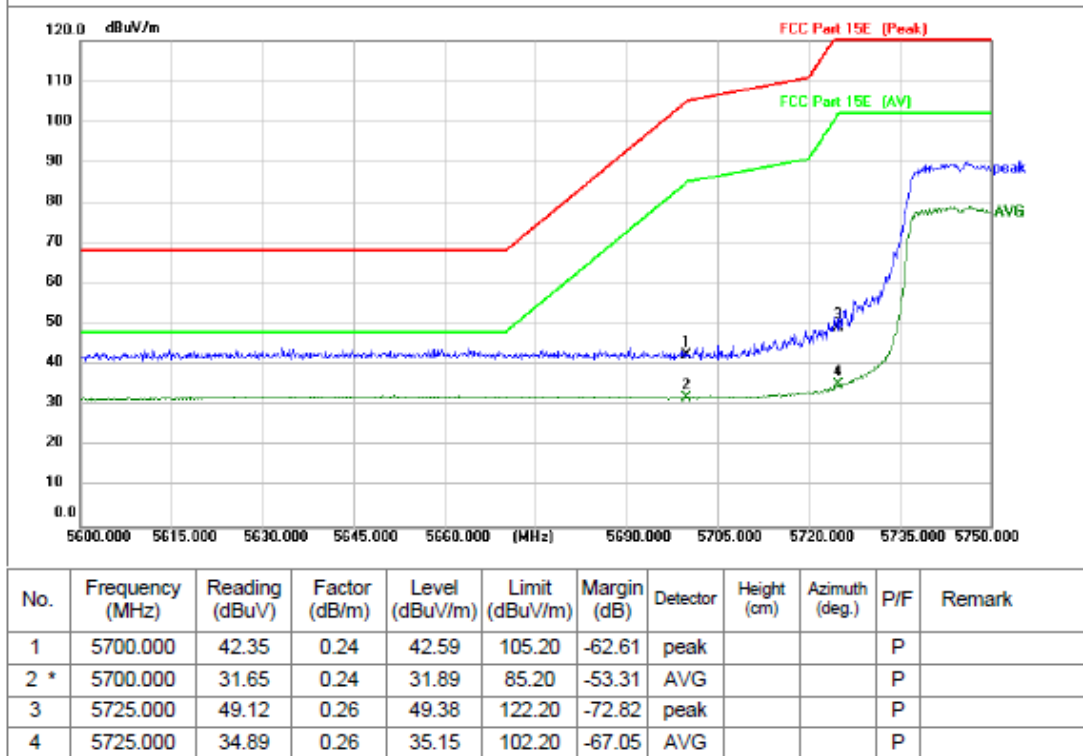
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5300.000	42.58	0.35	42.93	68.20	-25.27	peak			P	
2 *	5300.000	32.48	0.35	32.83	48.20	-15.37	AVG			P	
3	5350.000	42.89	0.45	43.34	68.20	-24.86	peak			P	
4	5350.000	31.46	0.45	31.91	48.20	-16.29	AVG			P	

TM1 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: H

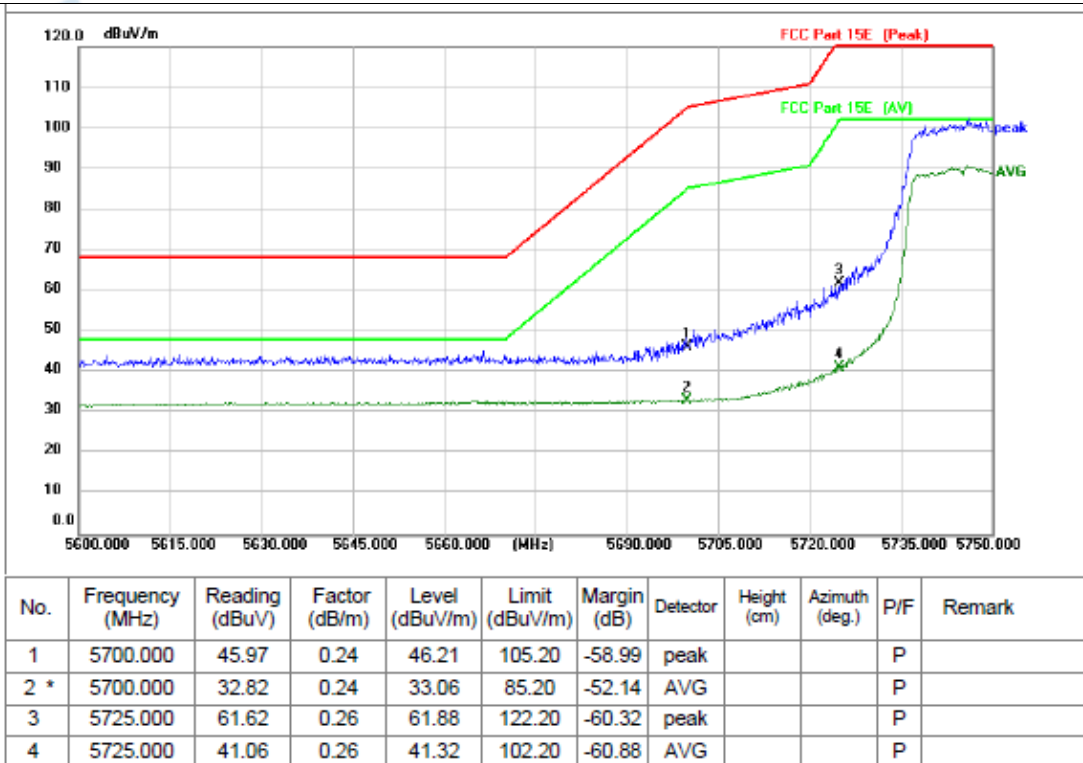


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5300.000	43.49	0.56	44.05	68.20	-24.15	peak			P	
2 *	5300.000	33.35	0.56	33.91	48.20	-14.29	AVG			P	
3	5350.000	42.56	0.60	43.16	68.20	-25.04	peak			P	
4	5350.000	32.23	0.60	32.83	48.20	-15.37	AVG			P	

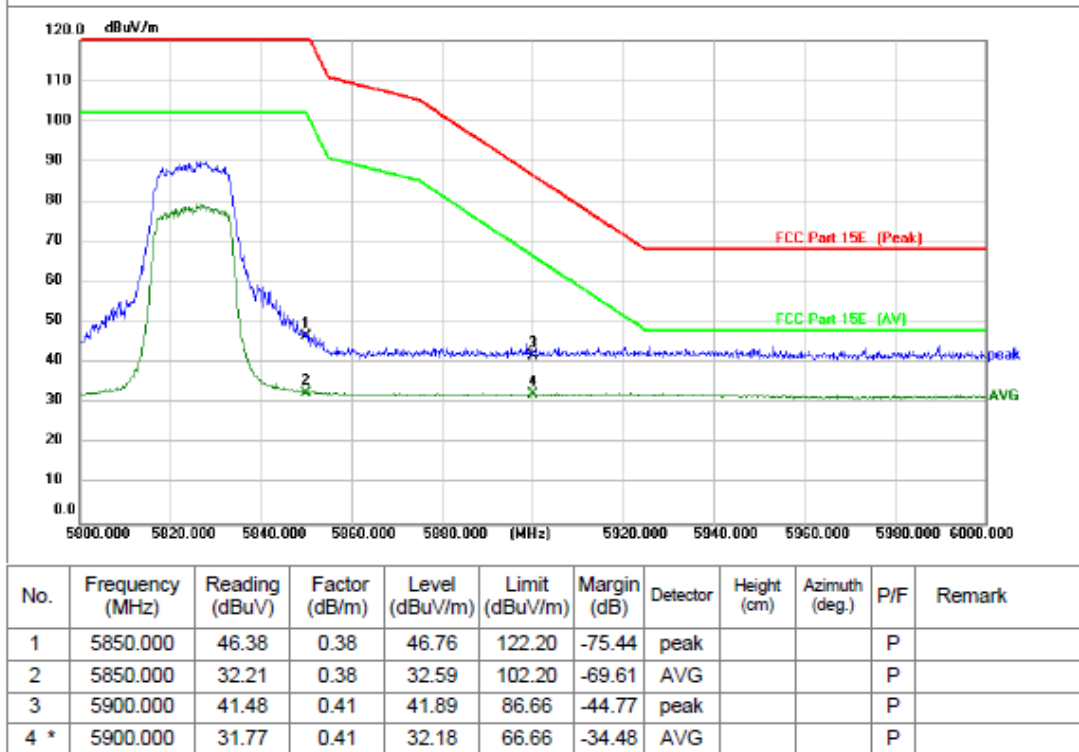
TM1 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: L



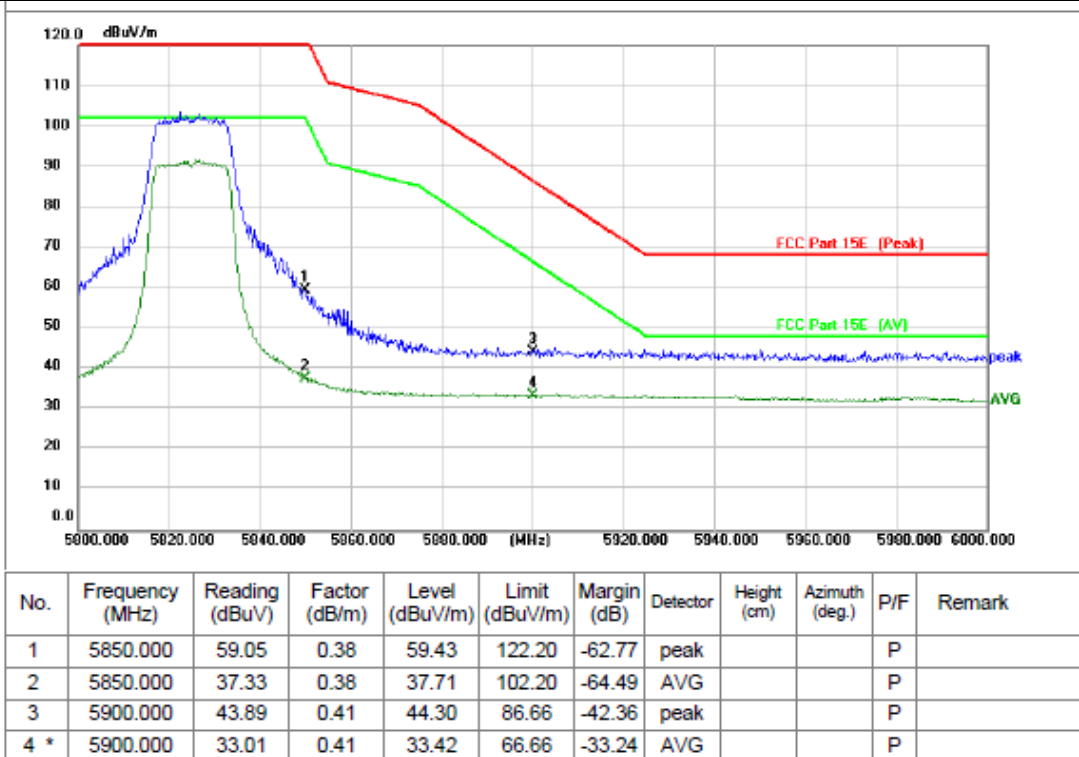
TM1 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: L



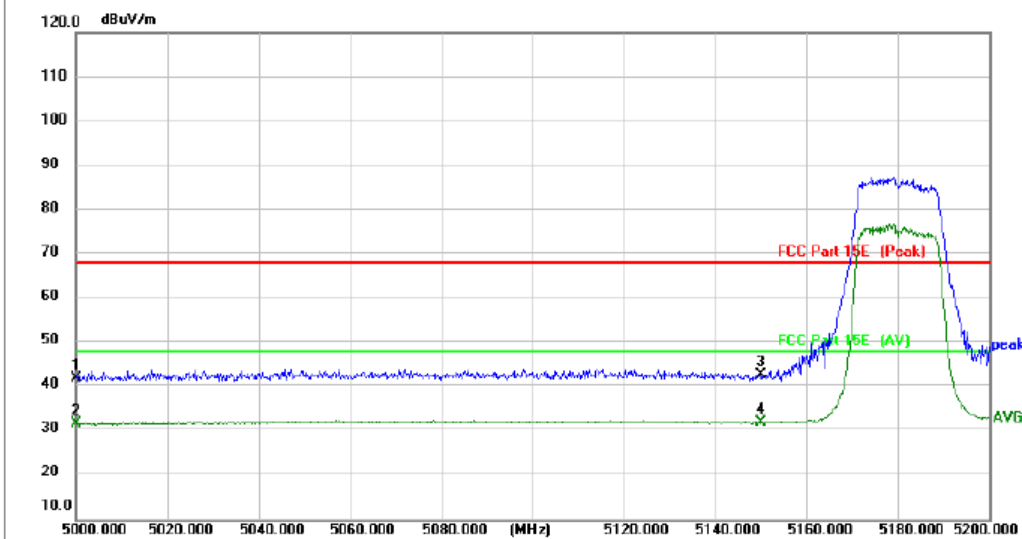
TM1 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: H



TM1 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: H

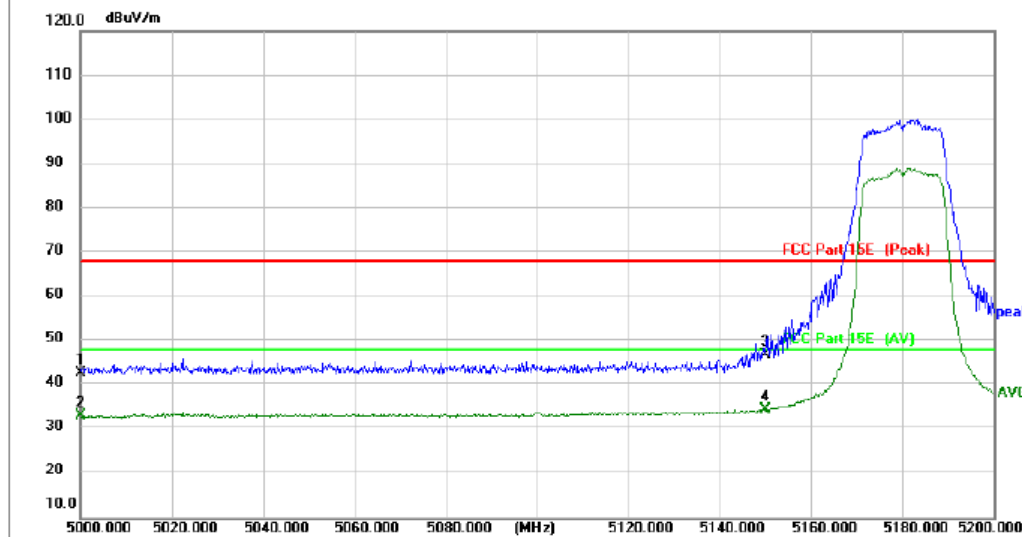


TM2 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: L



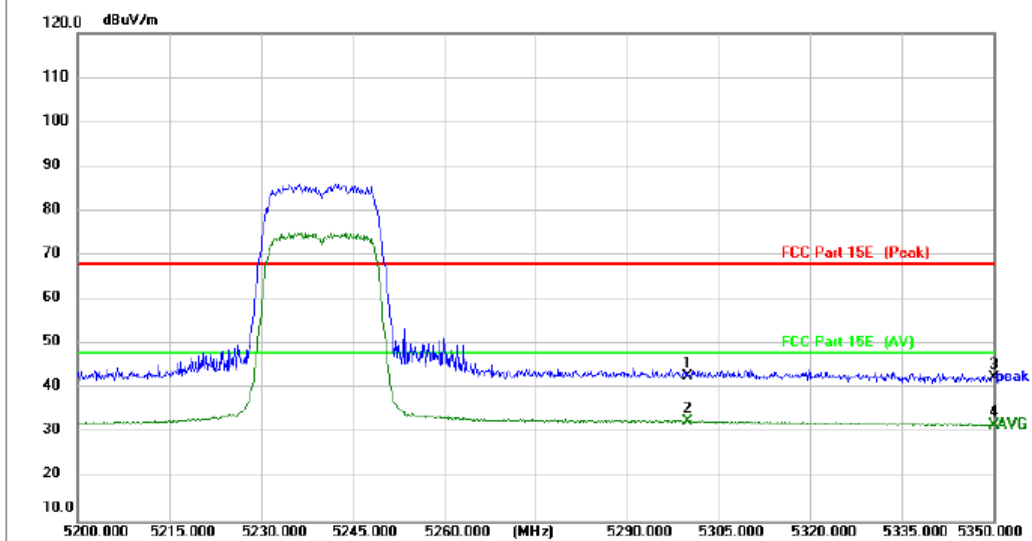
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5000.000	42.28	-0.23	42.05	68.20	-26.15	peak			P	
2	5000.000	32.18	-0.23	31.95	48.20	-16.25	AVG			P	
3	5150.000	42.88	0.05	42.93	68.20	-25.27	peak			P	
4 *	5150.000	32.13	0.05	32.18	48.20	-16.02	AVG			P	

TM2 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: L



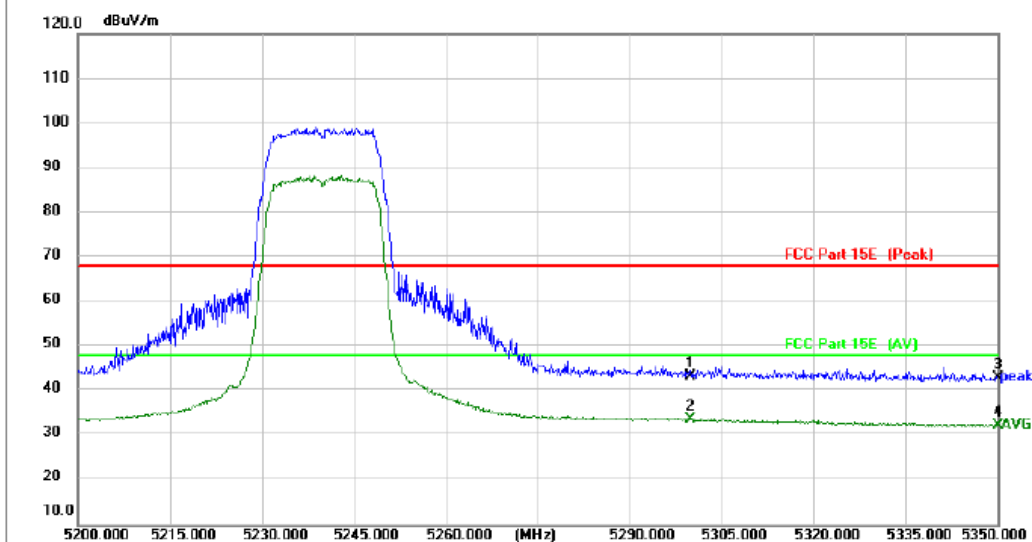
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5000.000	42.48	0.37	42.85	68.20	-25.35	peak			P	
2	5000.000	32.74	0.37	33.11	48.20	-15.09	AVG			P	
3	5150.000	46.43	0.46	46.89	68.20	-21.31	peak			P	
4 *	5150.000	34.23	0.46	34.69	48.20	-13.51	AVG			P	

TM2 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: H



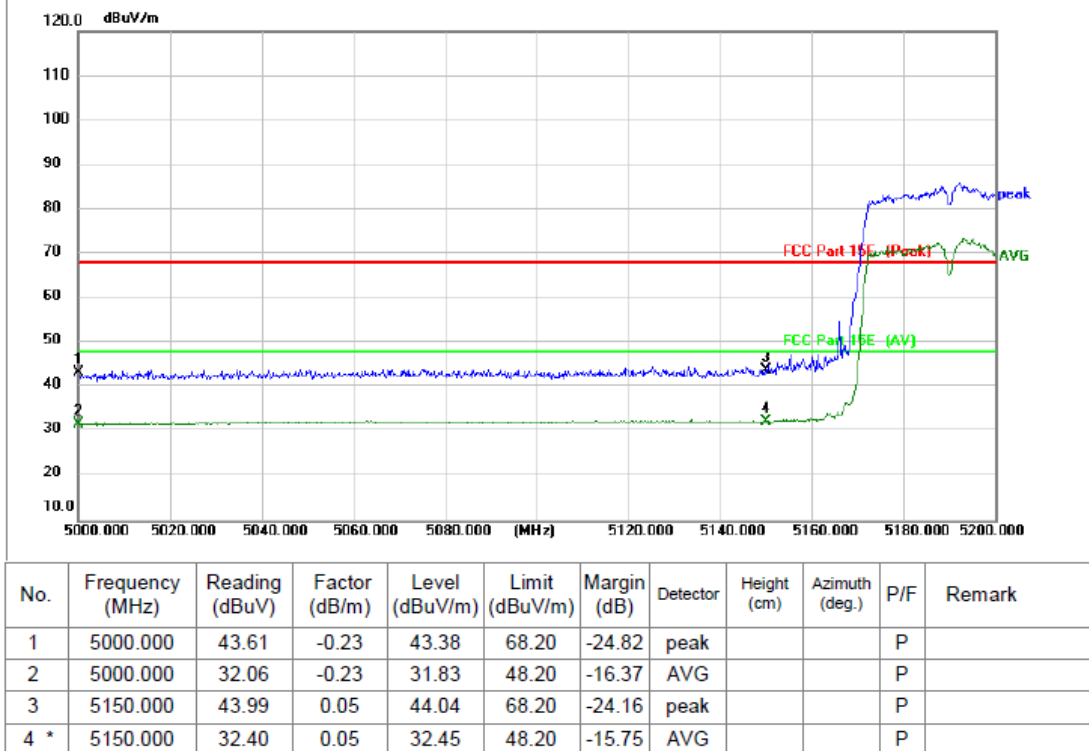
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5300.000	42.62	0.35	42.97	68.20	-25.23	peak			P	
2 *	5300.000	32.45	0.35	32.80	48.20	-15.40	AVG			P	
3	5350.000	42.22	0.45	42.67	68.20	-25.53	peak			P	
4	5350.000	31.34	0.45	31.79	48.20	-16.41	AVG			P	

TM2 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: H

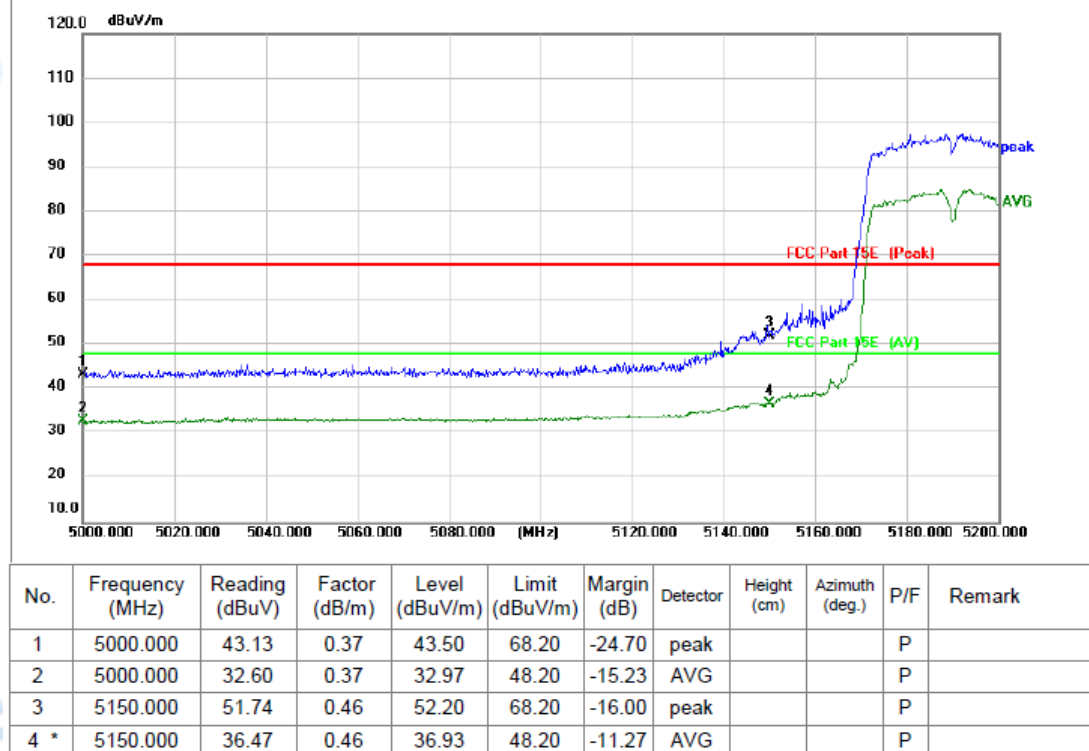


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5300.000	42.87	0.56	43.43	68.20	-24.77	peak			P	
2 *	5300.000	33.30	0.56	33.86	48.20	-14.34	AVG			P	
3	5350.000	42.53	0.60	43.13	68.20	-25.07	peak			P	
4	5350.000	31.84	0.60	32.44	48.20	-15.76	AVG			P	

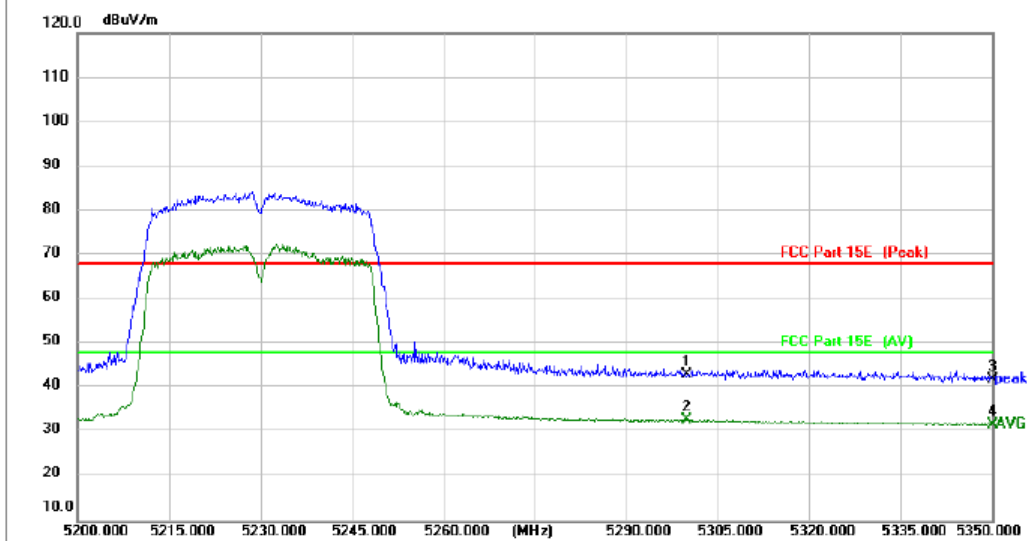
TM2 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 40 / CH: L



TM2 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 40 / CH: L

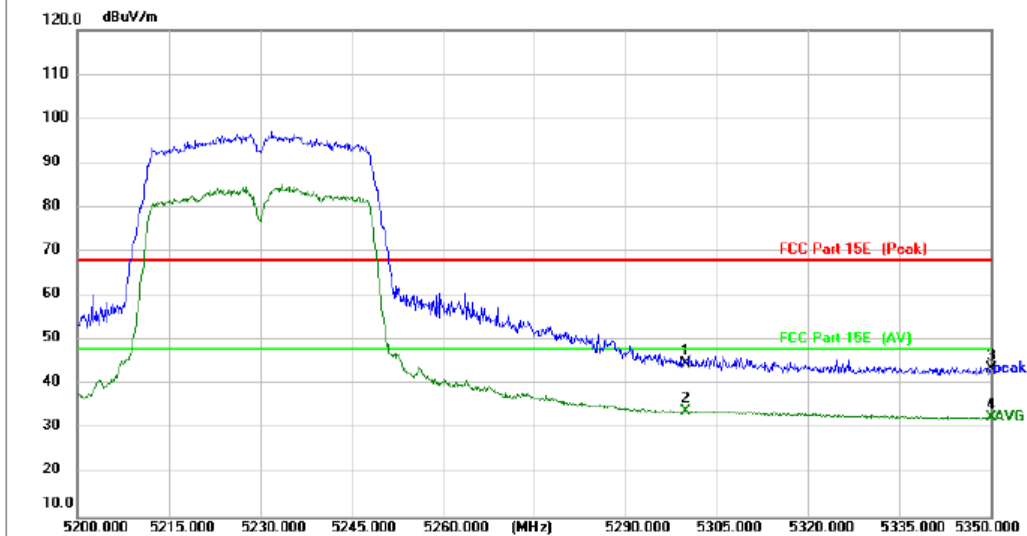


TM2 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 40 / CH: H



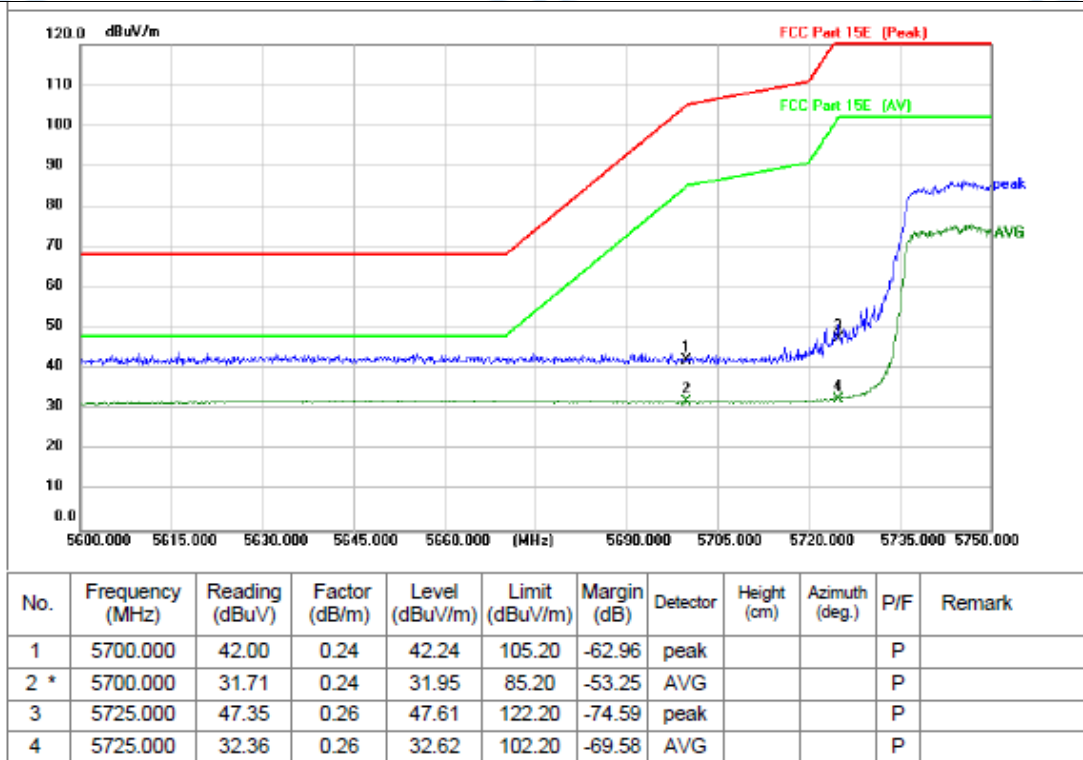
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5300.000	42.71	0.35	43.06	68.20	-25.14	peak			P	
2 *	5300.000	32.59	0.35	32.94	48.20	-15.26	AVG			P	
3	5350.000	41.60	0.45	42.05	68.20	-26.15	peak			P	
4	5350.000	31.32	0.45	31.77	48.20	-16.43	AVG			P	

TM2 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 40 / CH: H

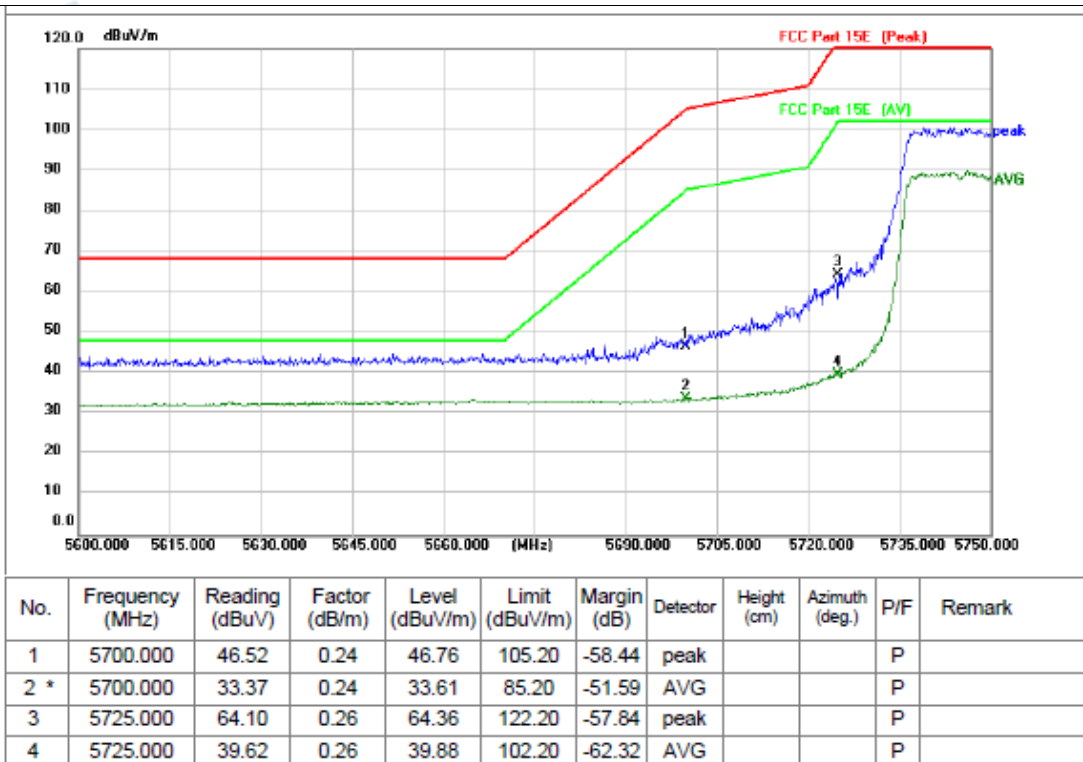


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5300.000	44.30	0.56	44.86	68.20	-23.34	peak			P	
2 *	5300.000	33.37	0.56	33.93	48.20	-14.27	AVG			P	
3	5350.000	43.01	0.60	43.61	68.20	-24.59	peak			P	
4	5350.000	32.13	0.60	32.73	48.20	-15.47	AVG			P	

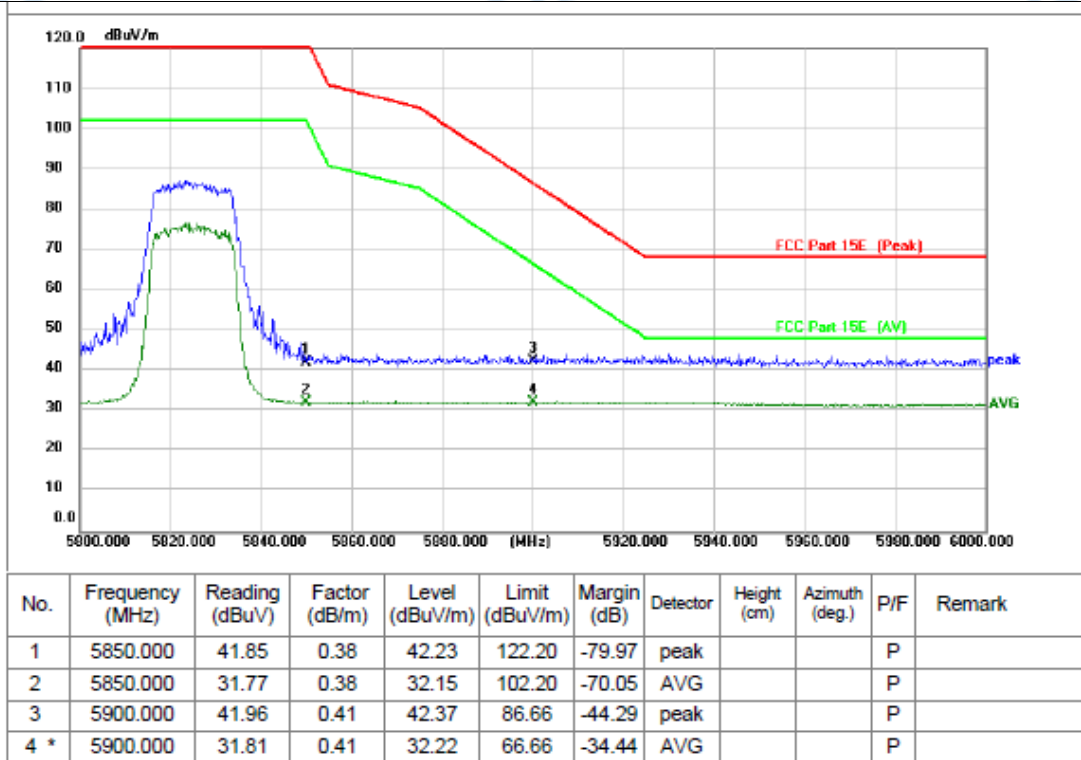
TM2 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: L



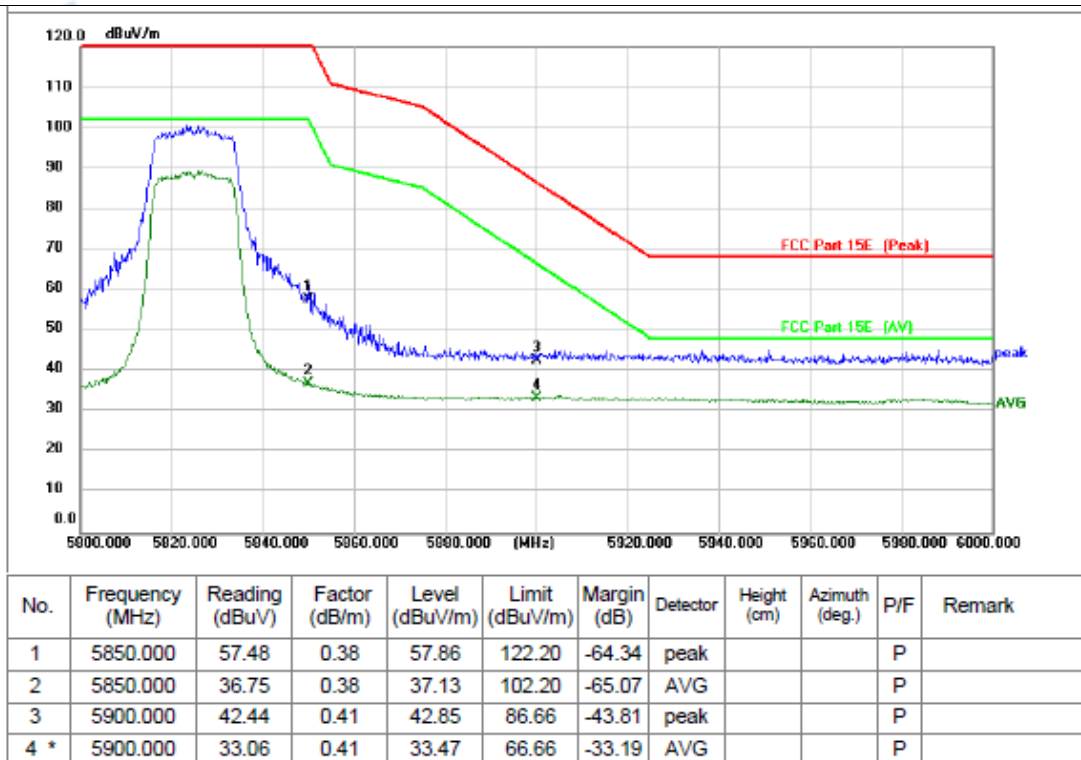
TM2 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: L



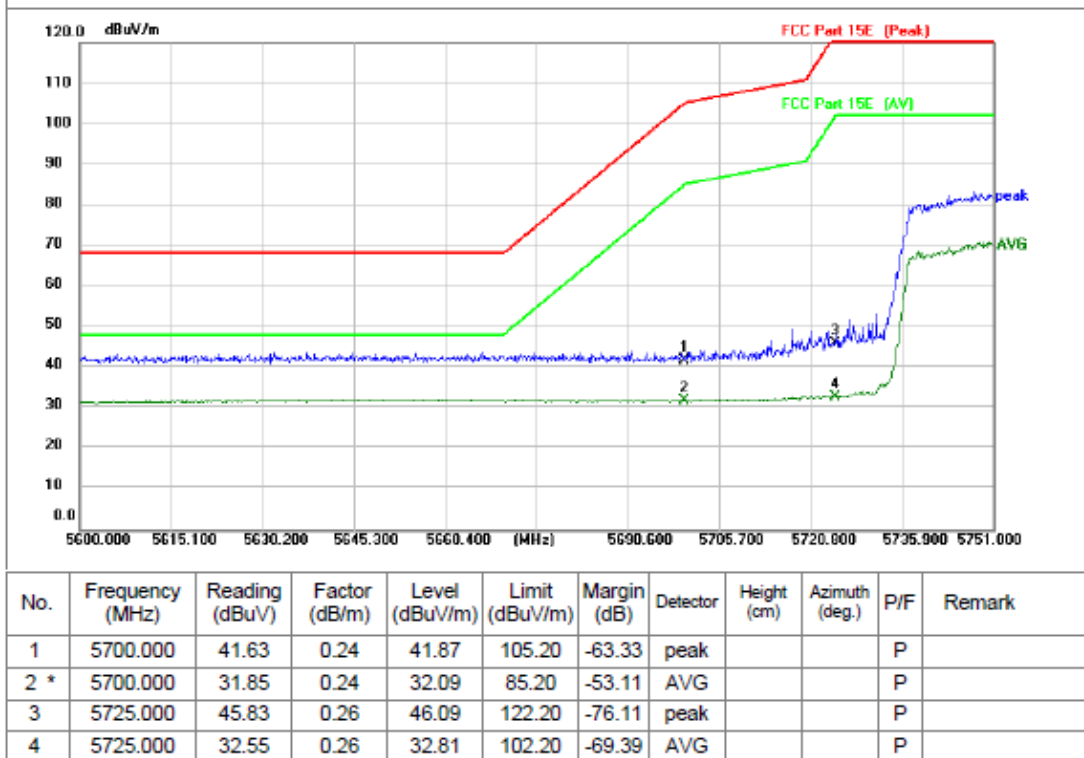
TM2 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: H



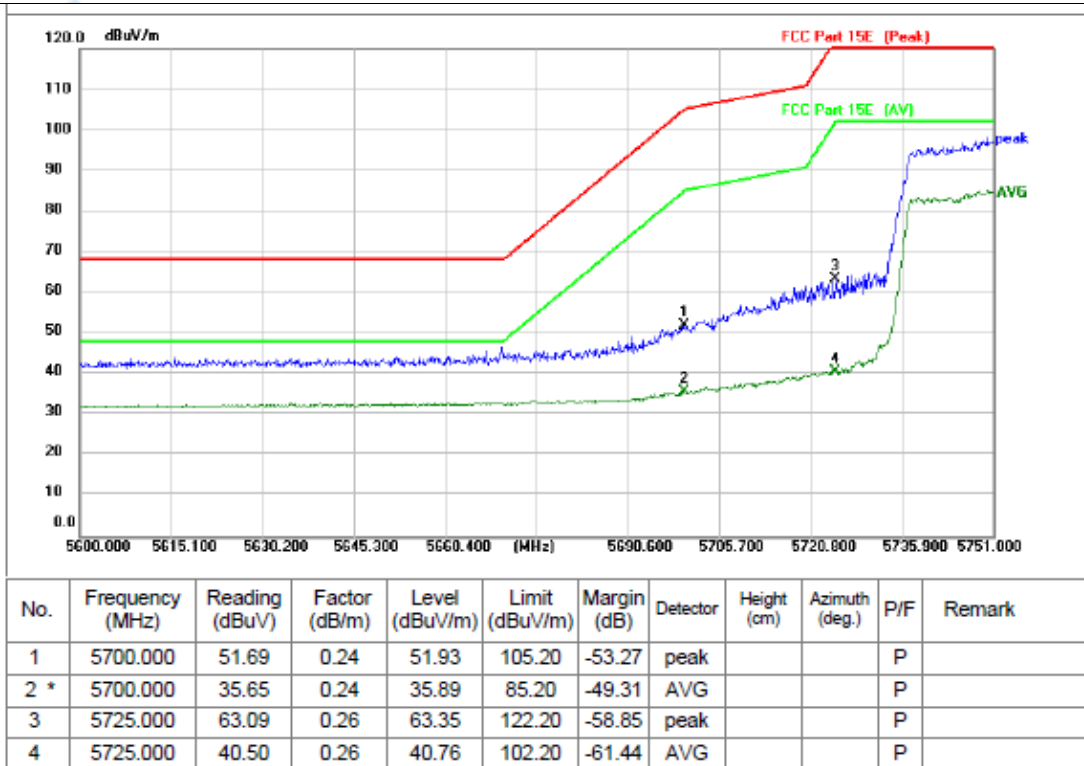
TM2 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: H



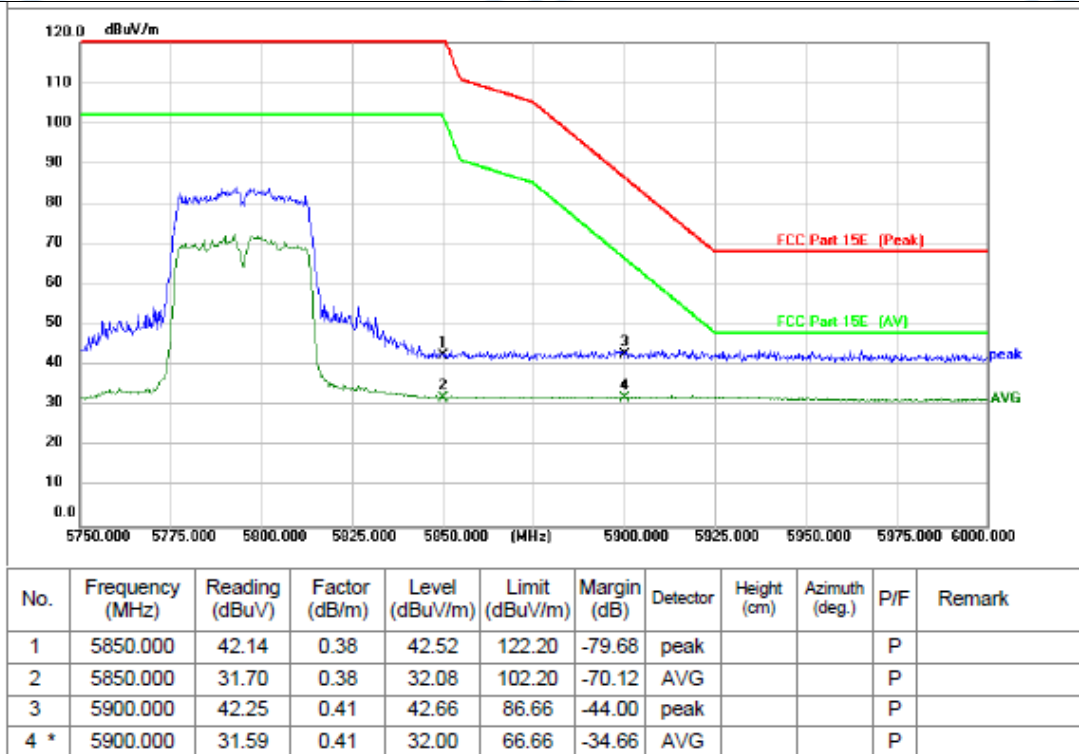
TM2 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 40 / CH: L



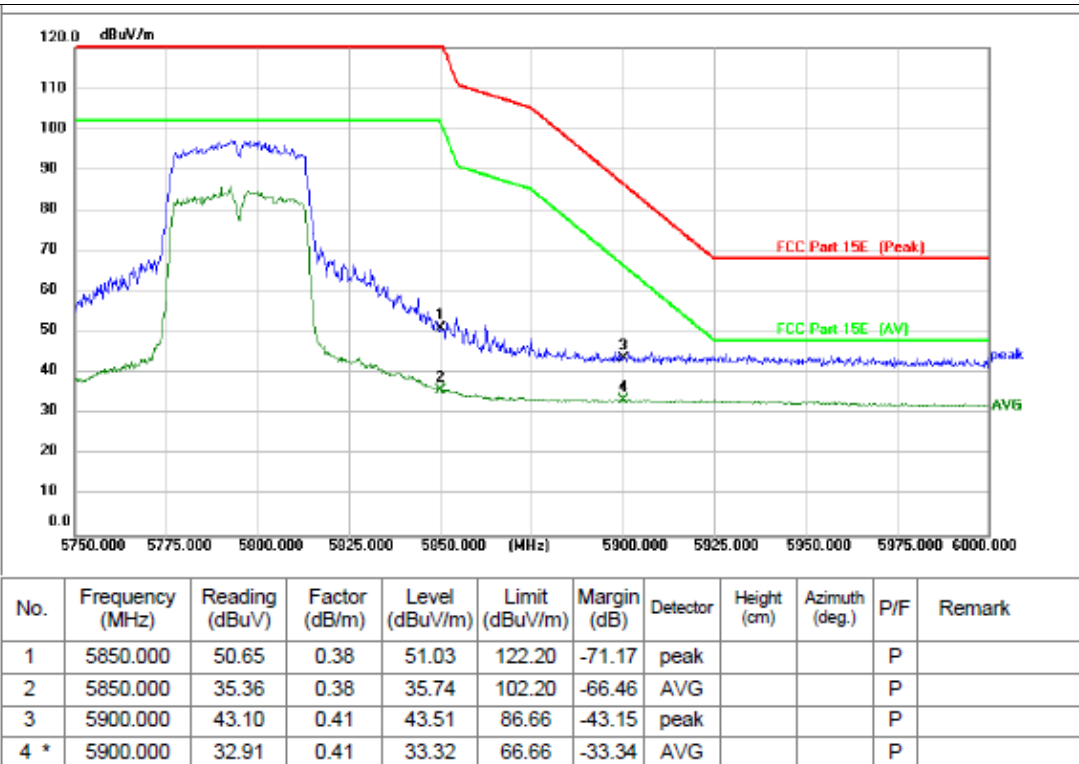
TM2 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 40 / CH: L



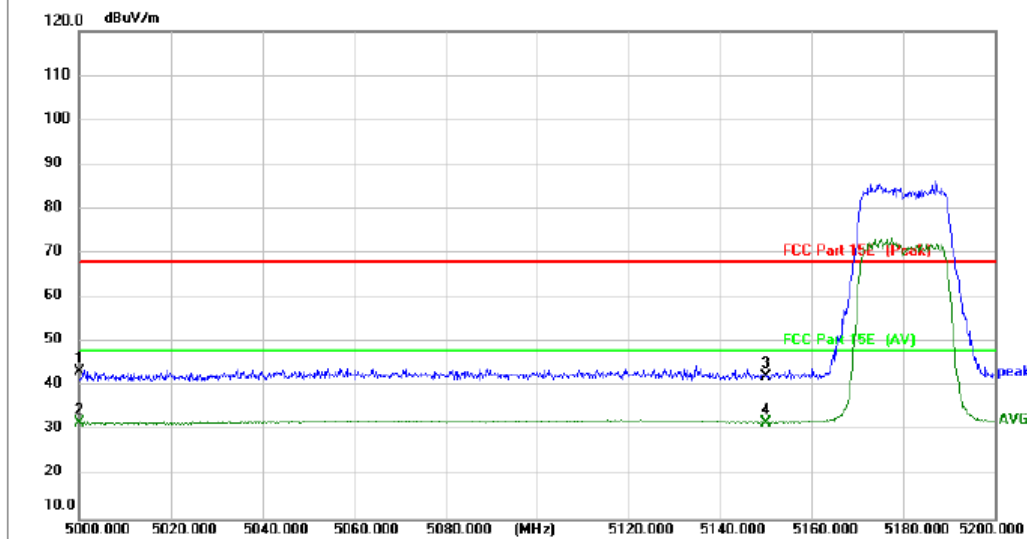
TM2 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 40 / CH: H



TM2 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 40 / CH: H

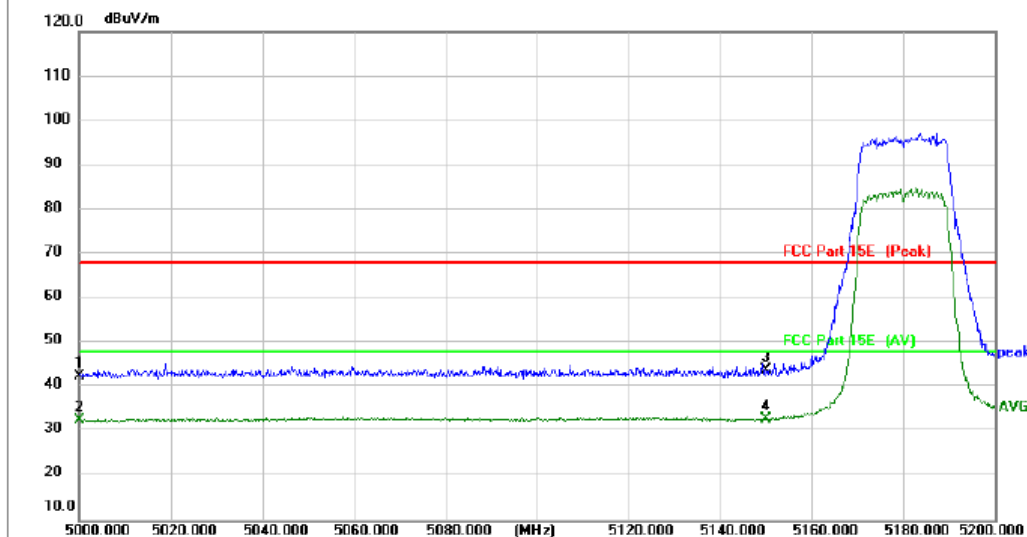


TM3 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: L



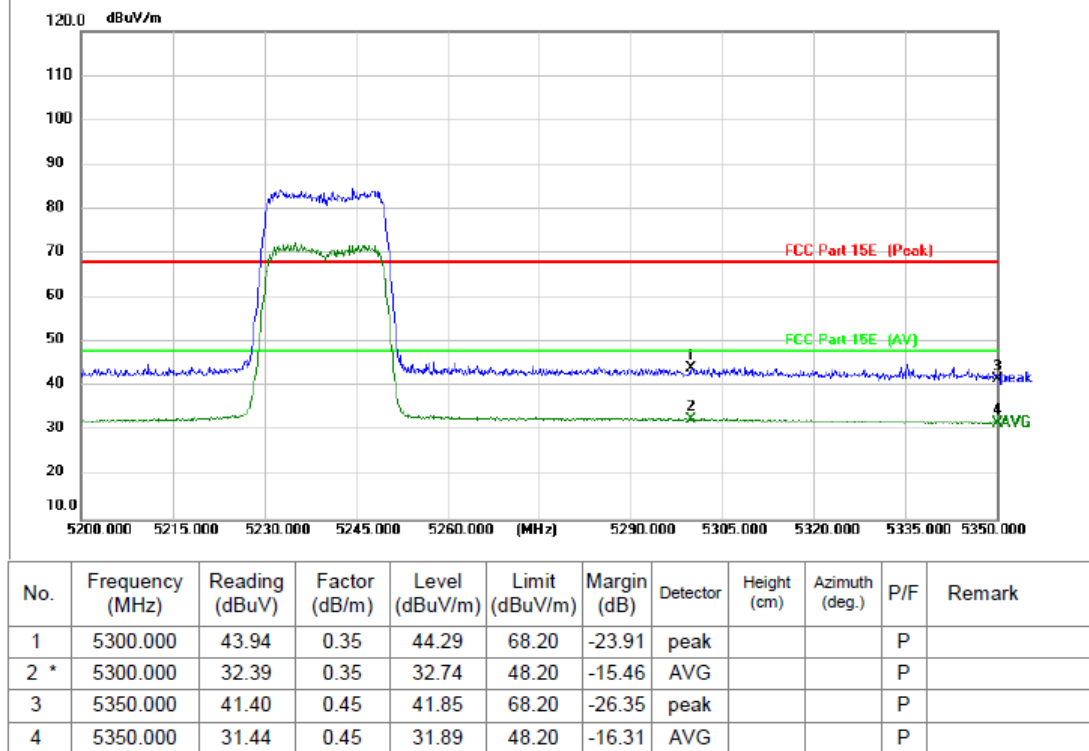
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5000.000	43.76	-0.23	43.53	68.20	-24.67	peak			P	
2	5000.000	32.12	-0.23	31.89	48.20	-16.31	AVG			P	
3	5150.000	42.28	0.05	42.33	68.20	-25.87	peak			P	
4 *	5150.000	31.95	0.05	32.00	48.20	-16.20	AVG			P	

TM3 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: L

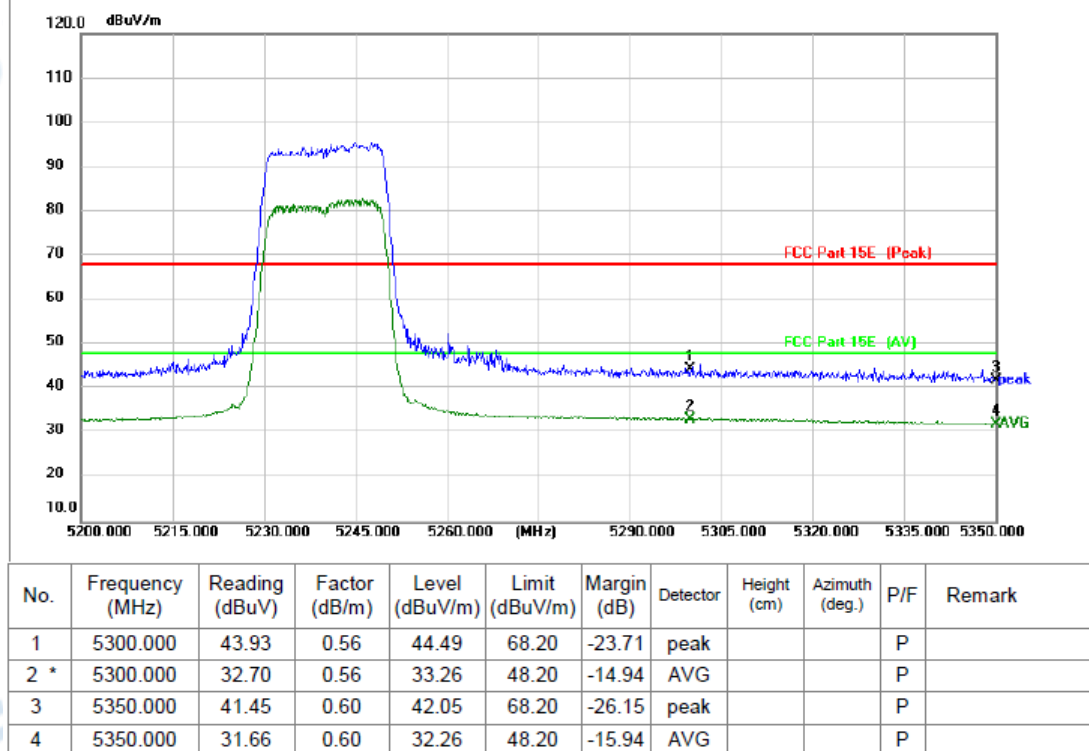


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5000.000	42.24	0.37	42.61	68.20	-25.59	peak			P	
2	5000.000	32.19	0.37	32.56	48.20	-15.64	AVG			P	
3	5150.000	43.40	0.46	43.86	68.20	-24.34	peak			P	
4 *	5150.000	32.57	0.46	33.03	48.20	-15.17	AVG			P	

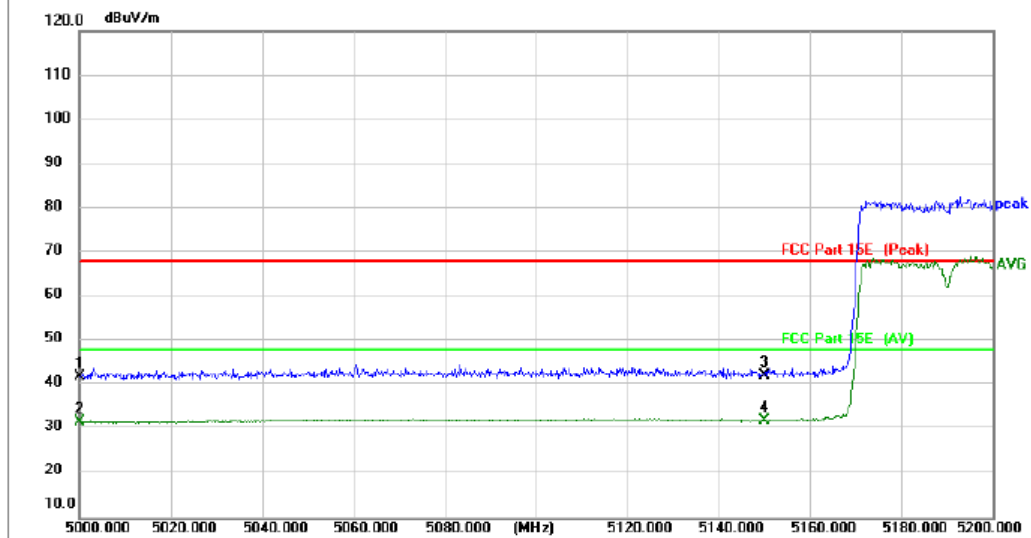
TM3 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: H



TM3 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: H

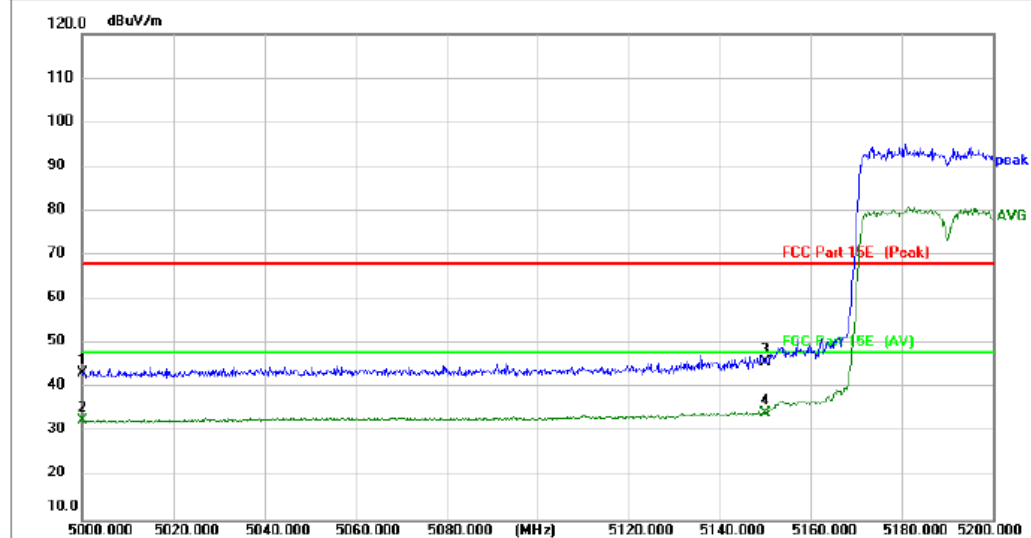


TM3 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 40 / CH: L



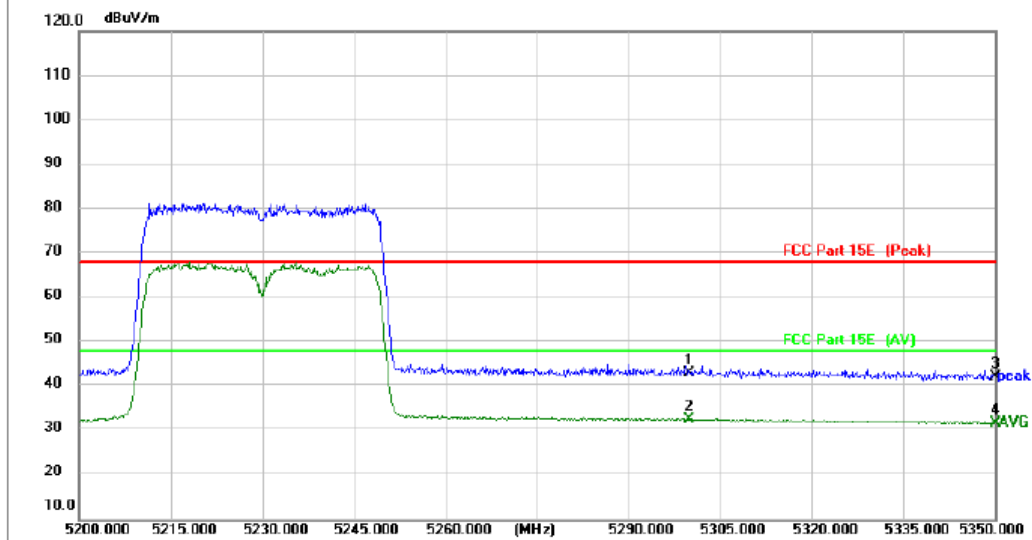
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5000.000	42.34	-0.23	42.11	68.20	-26.09	peak			P	
2	5000.000	32.05	-0.23	31.82	48.20	-16.38	AVG			P	
3	5150.000	42.37	0.05	42.42	68.20	-25.78	peak			P	
4 *	5150.000	31.99	0.05	32.04	48.20	-16.16	AVG			P	

TM3 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 40 / CH: L



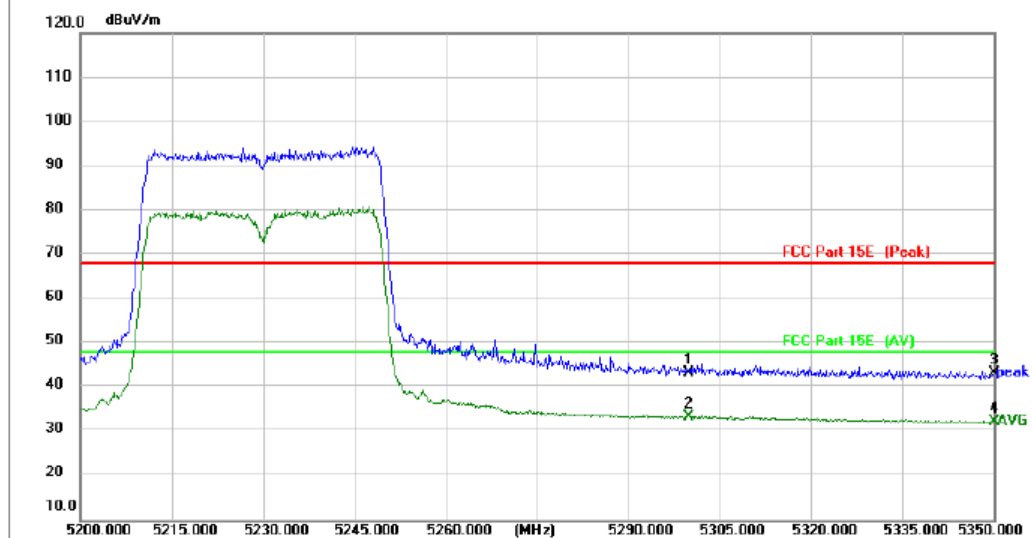
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5000.000	43.00	0.37	43.37	68.20	-24.83	peak			P	
2	5000.000	32.24	0.37	32.61	48.20	-15.59	AVG			P	
3	5150.000	45.49	0.46	45.95	68.20	-22.25	peak			P	
4 *	5150.000	33.82	0.46	34.28	48.20	-13.92	AVG			P	

TM3 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 40 / CH: H



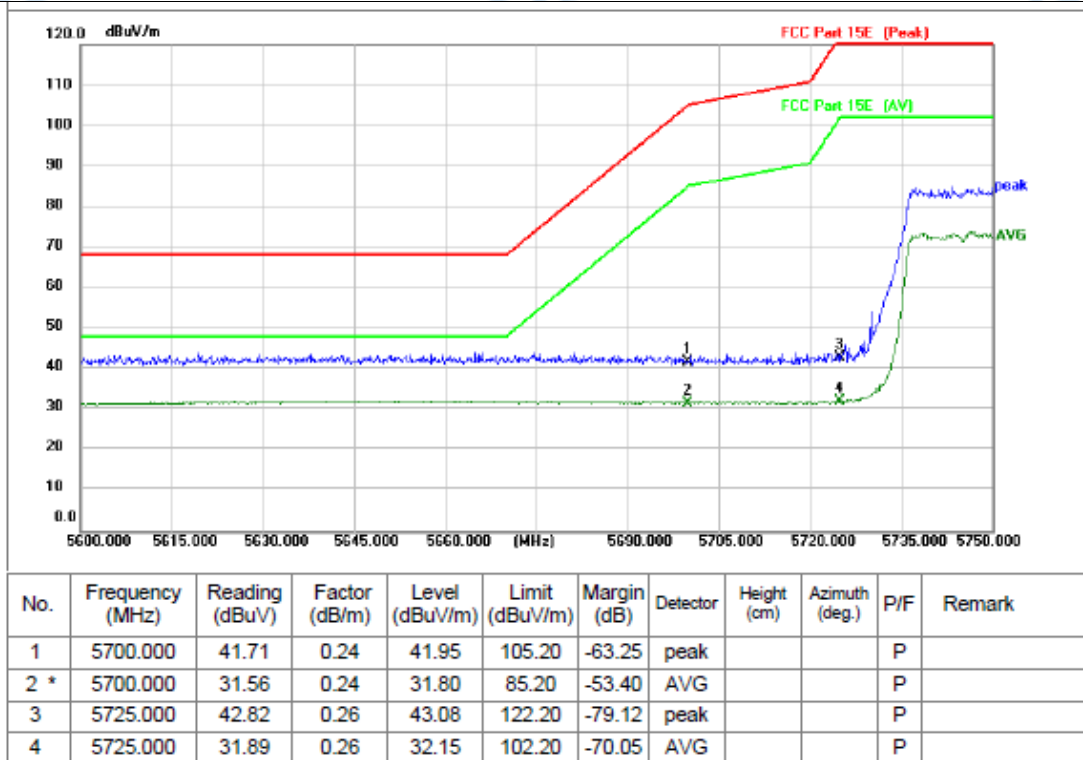
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5300.000	42.92	0.35	43.27	68.20	-24.93	peak			P	
2 *	5300.000	32.41	0.35	32.76	48.20	-15.44	AVG			P	
3	5350.000	41.84	0.45	42.29	68.20	-25.91	peak			P	
4	5350.000	31.43	0.45	31.88	48.20	-16.32	AVG			P	

TM3 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 40 / CH: H

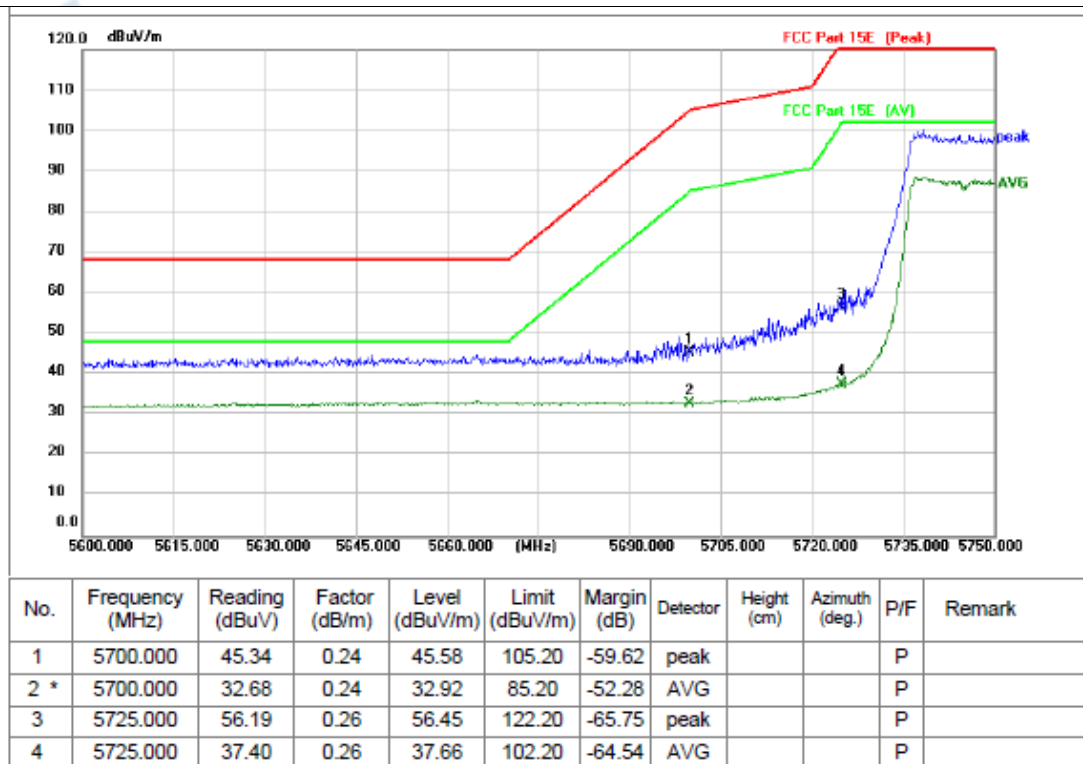


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5300.000	42.89	0.56	43.45	68.20	-24.75	peak			P	
2 *	5300.000	32.82	0.56	33.38	48.20	-14.82	AVG			P	
3	5350.000	42.68	0.60	43.28	68.20	-24.92	peak			P	
4	5350.000	31.80	0.60	32.40	48.20	-15.80	AVG			P	

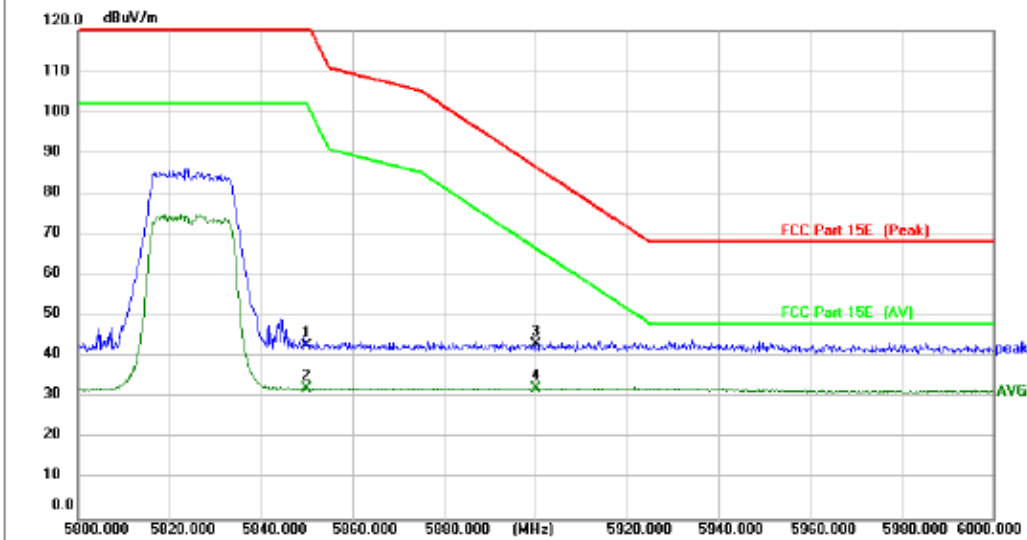
TM3 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: L



TM3 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: L

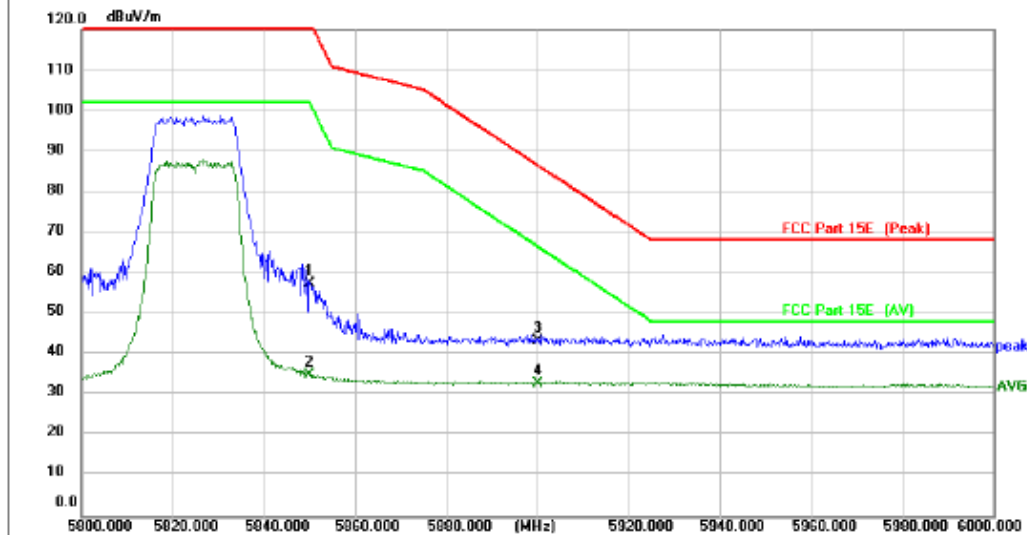


TM3 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: H



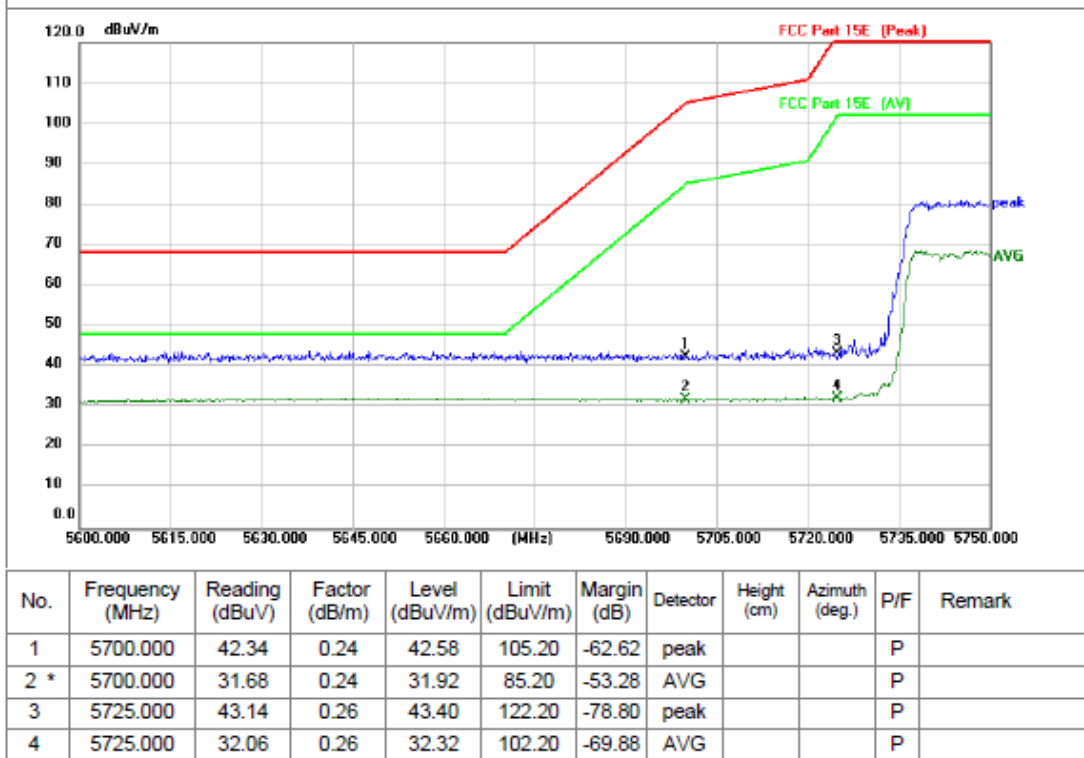
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5850.000	42.34	0.38	42.72	122.20	-79.48	peak			P	
2	5850.000	31.74	0.38	32.12	102.20	-70.08	AVG			P	
3	5900.000	42.52	0.41	42.93	86.66	-43.73	peak			P	
4 *	5900.000	31.70	0.41	32.11	66.66	-34.55	AVG			P	

TM3 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: H

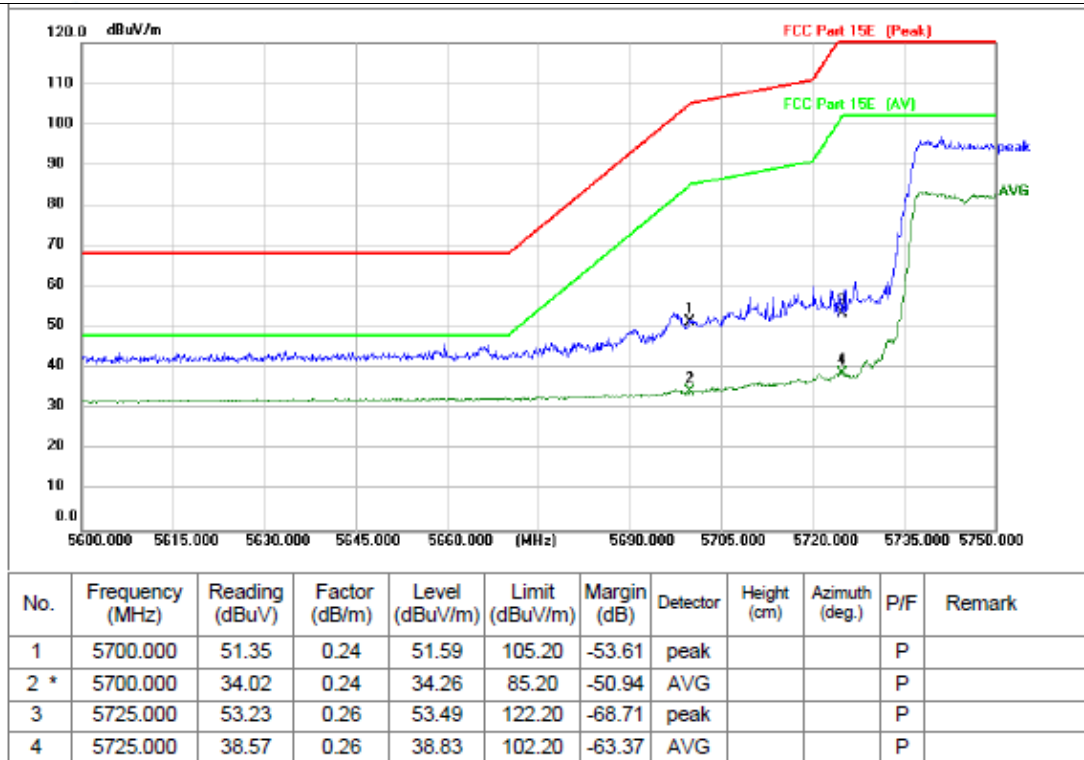


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5850.000	57.14	0.38	57.52	122.20	-64.68	peak			P	
2	5850.000	34.52	0.38	34.90	102.20	-67.30	AVG			P	
3	5900.000	43.01	0.41	43.42	86.66	-43.24	peak			P	
4 *	5900.000	32.39	0.41	32.80	66.66	-33.86	AVG			P	

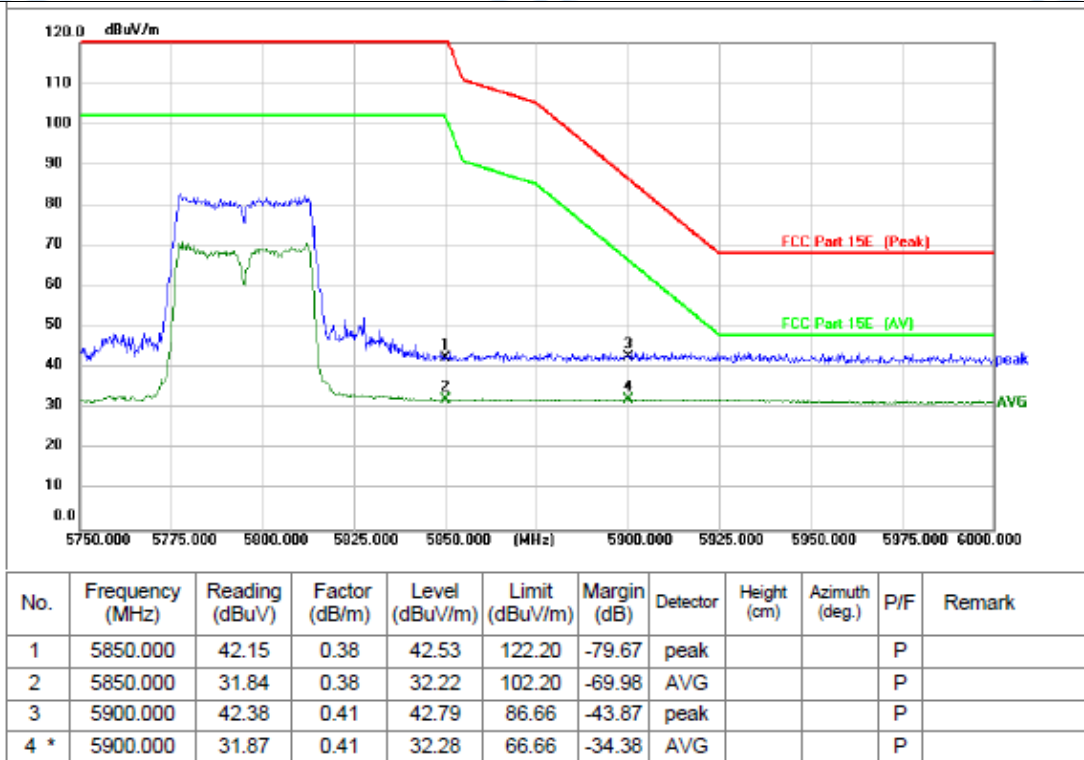
TM3 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 40 / CH: L



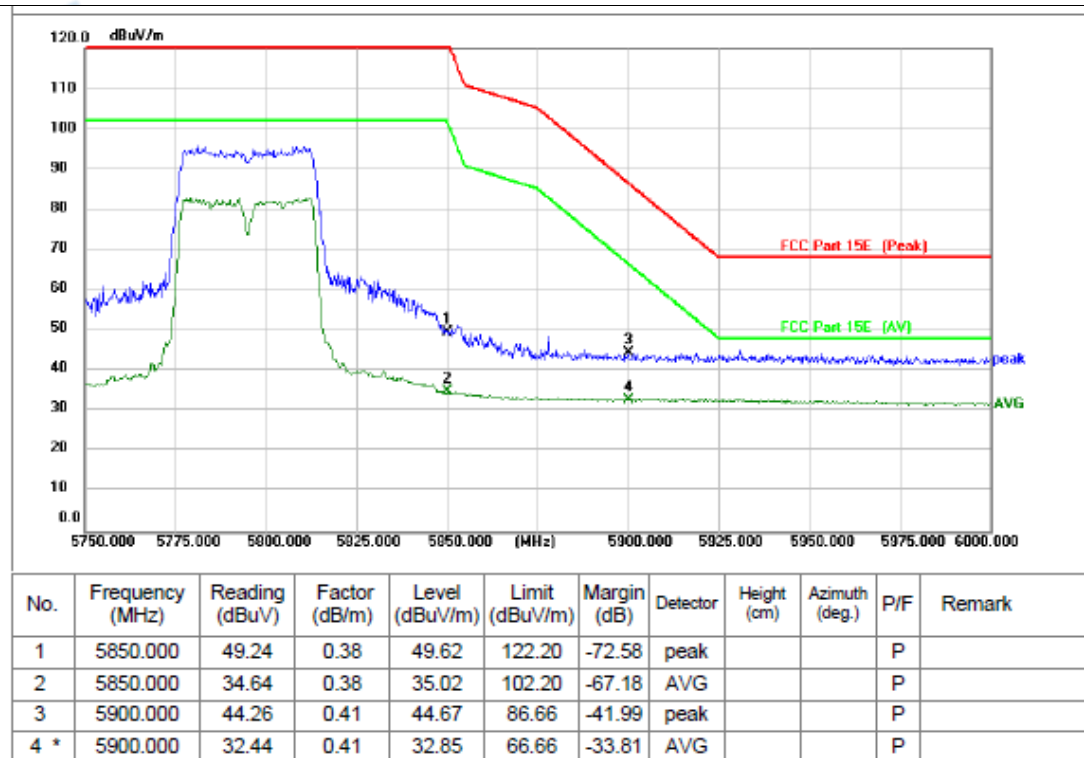
TM3 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 40 / CH: L



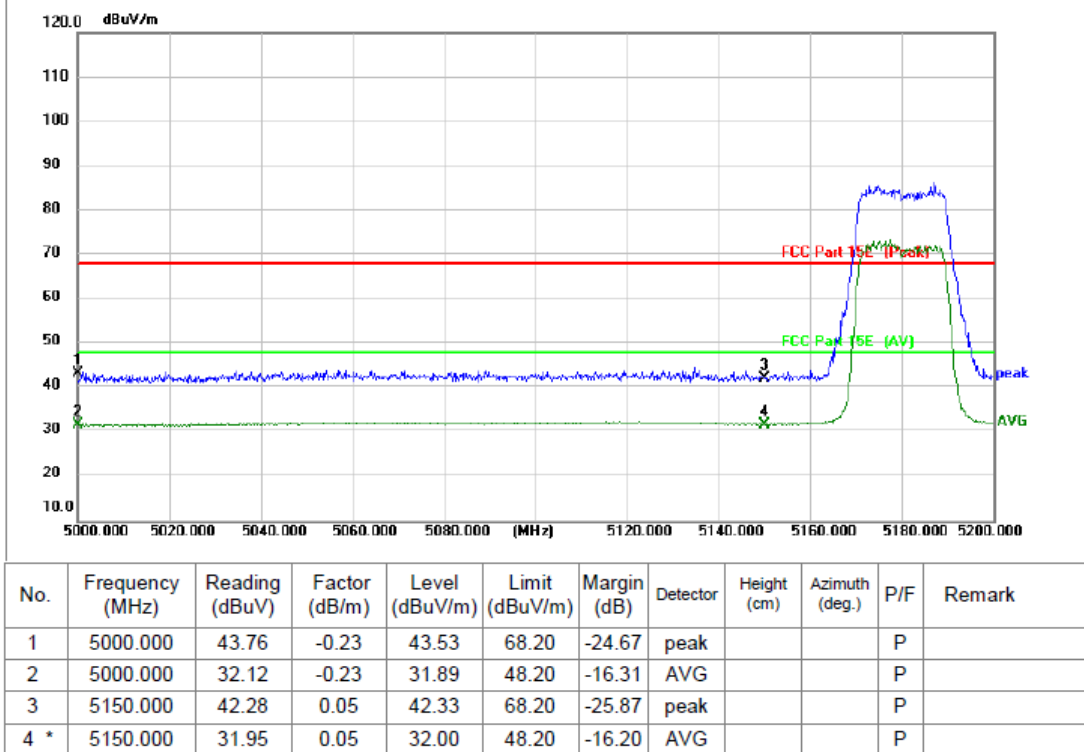
TM3 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 40 / CH: H



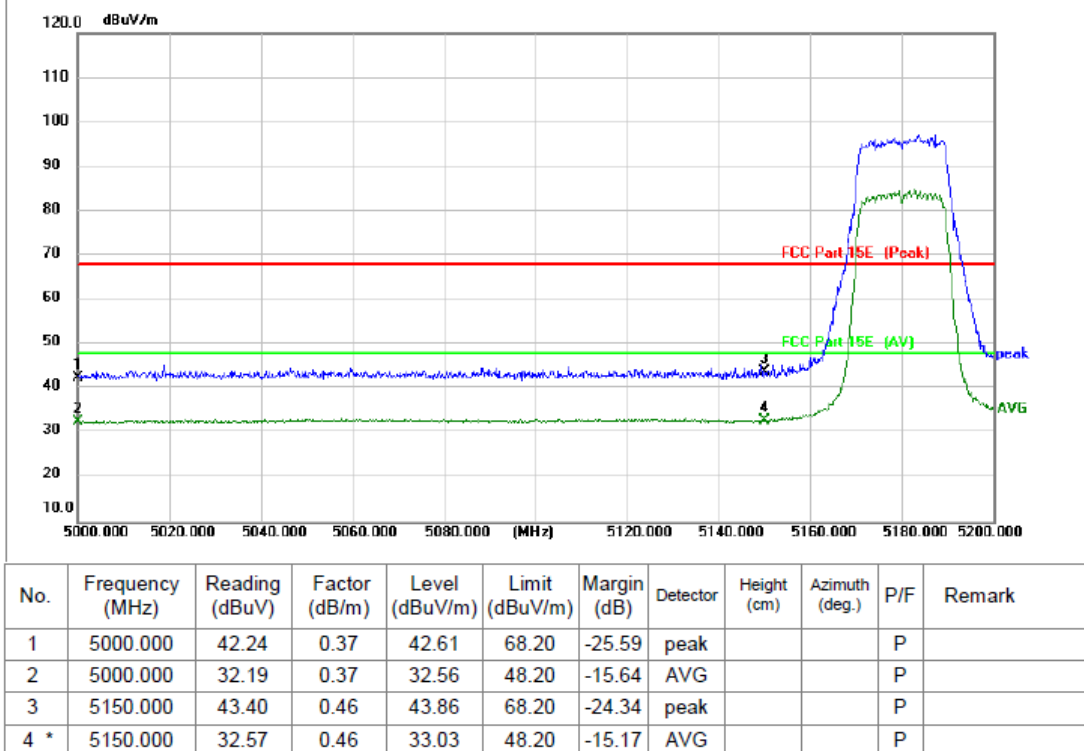
TM3 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 40 / CH: H



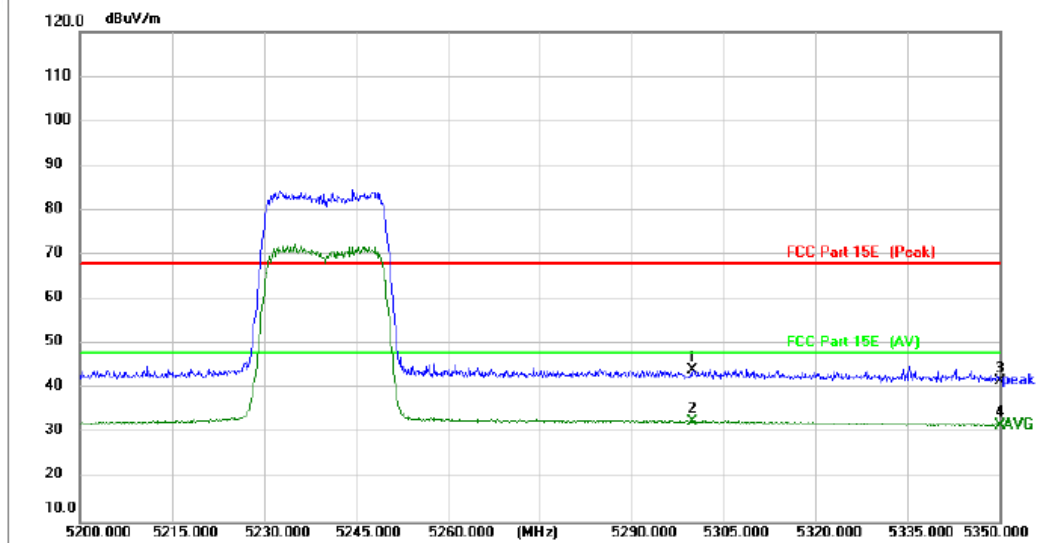
TM4 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: L



TM4 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: L

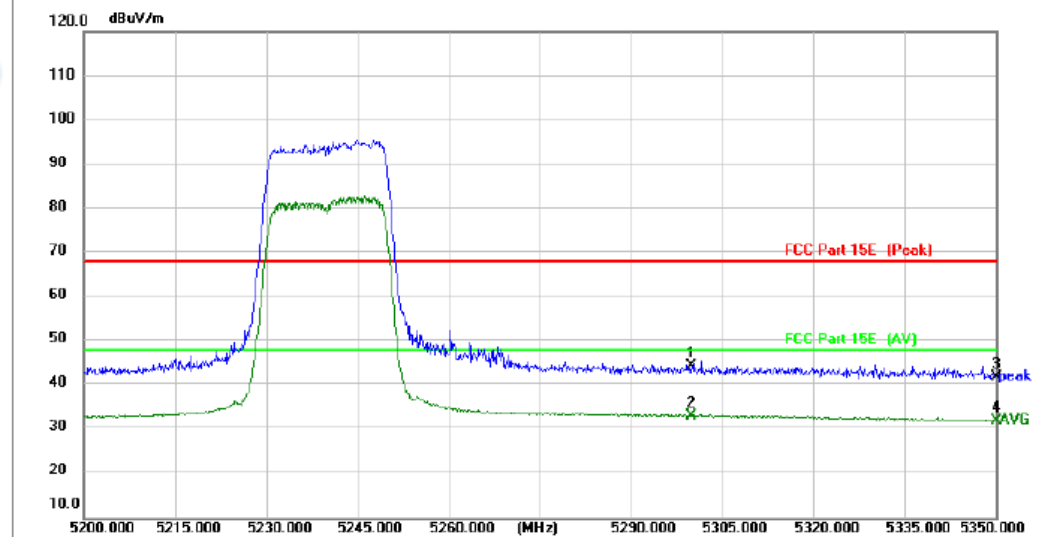


TM4 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: H



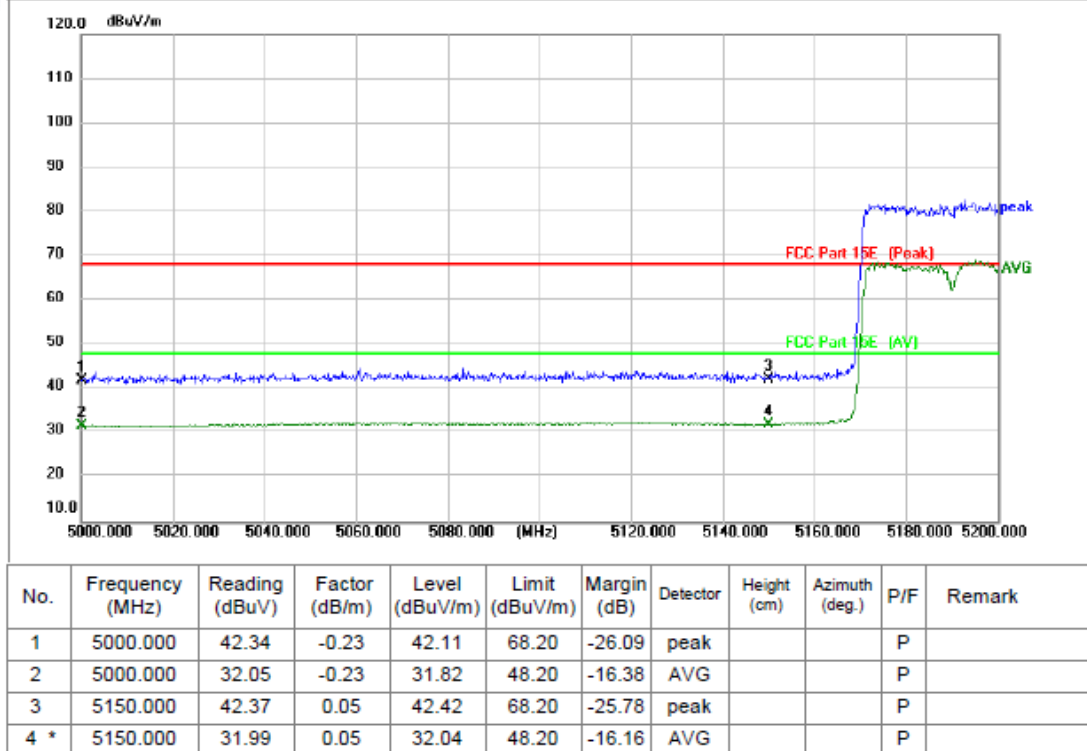
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5300.000	43.94	0.35	44.29	68.20	-23.91	peak			P	
2 *	5300.000	32.39	0.35	32.74	48.20	-15.46	AVG			P	
3	5350.000	41.40	0.45	41.85	68.20	-26.35	peak			P	
4	5350.000	31.44	0.45	31.89	48.20	-16.31	AVG			P	

TM4 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: H

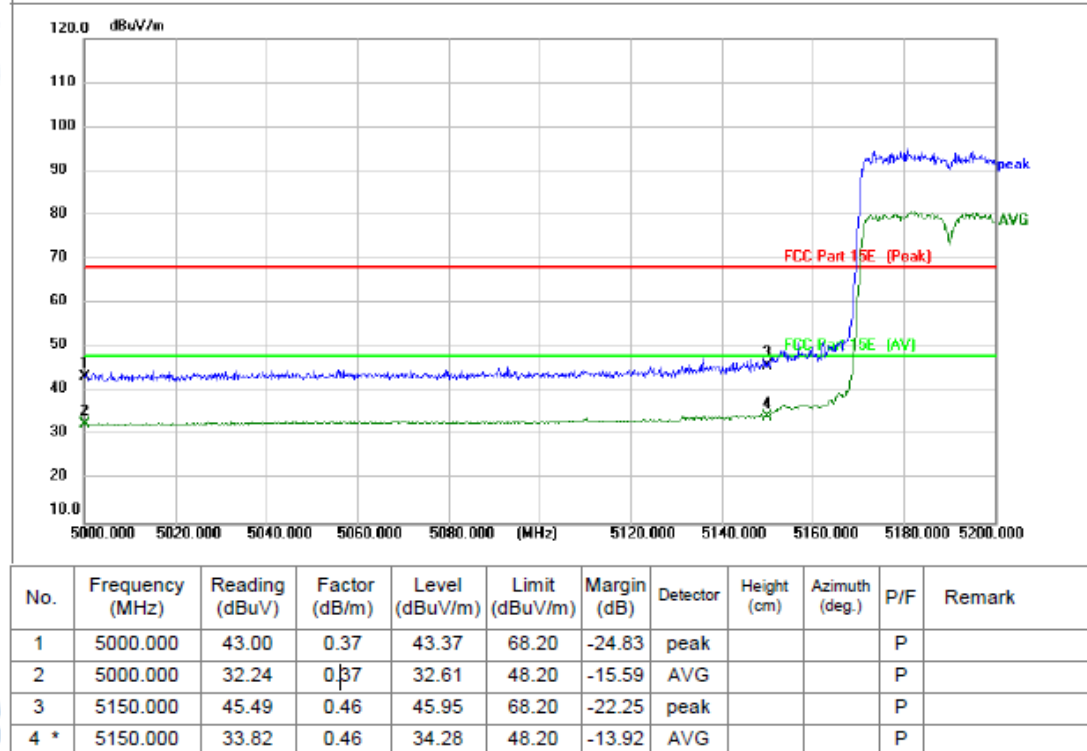


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5300.000	43.93	0.56	44.49	68.20	-23.71	peak			P	
2 *	5300.000	32.70	0.56	33.26	48.20	-14.94	AVG			P	
3	5350.000	41.45	0.60	42.05	68.20	-26.15	peak			P	
4	5350.000	31.66	0.60	32.26	48.20	-15.94	AVG			P	

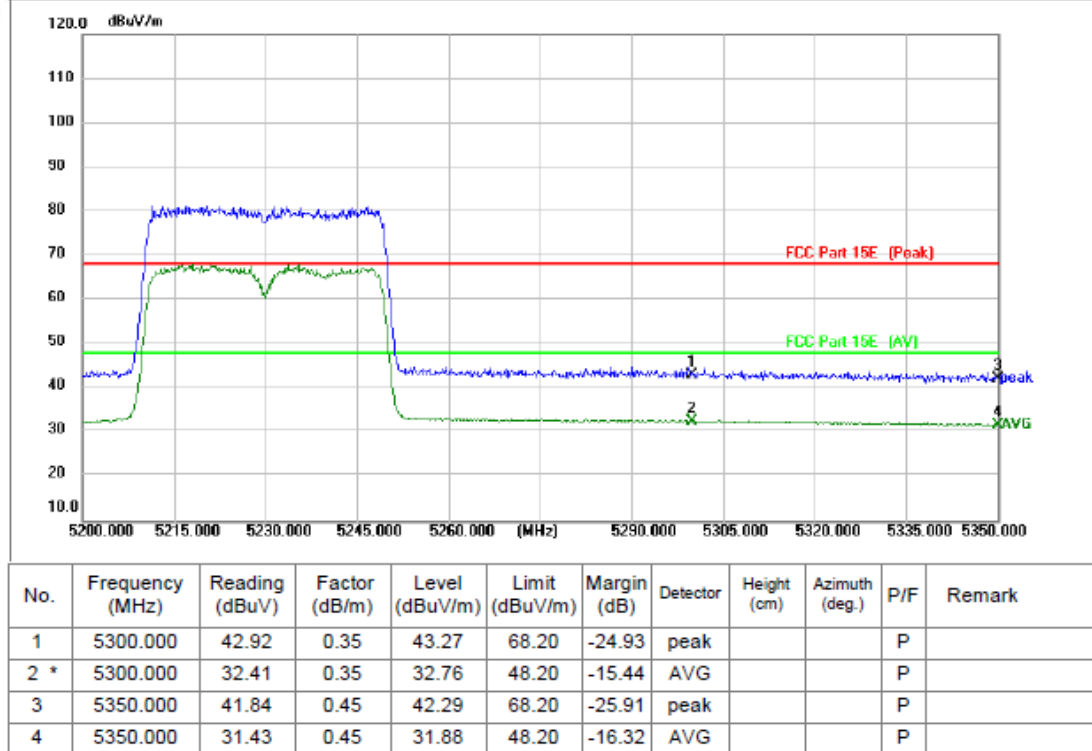
TM4 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 40 / CH: L



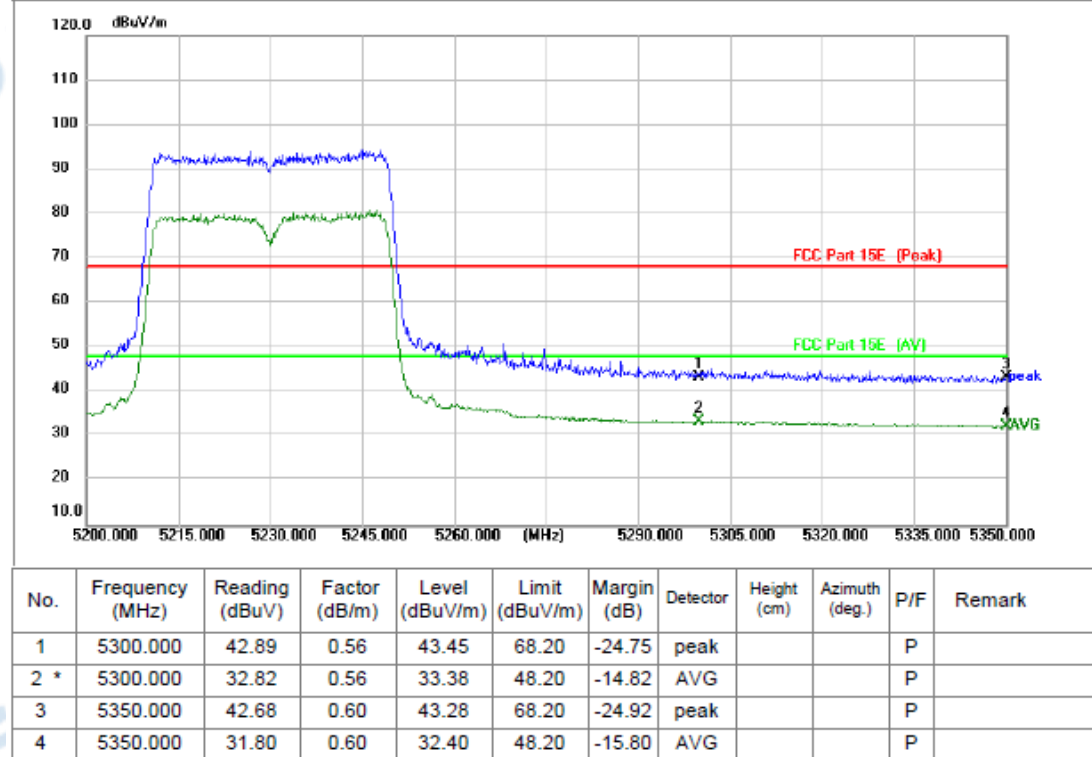
TM4 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 40 / CH: L



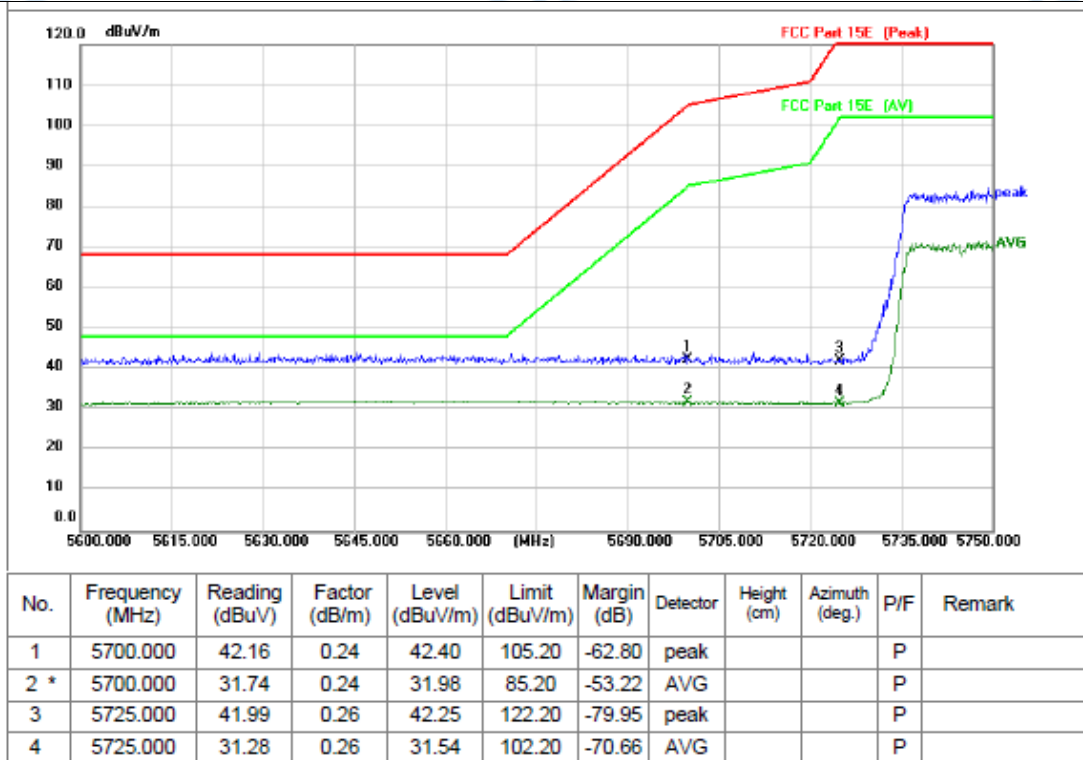
TM4 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 40 / CH: H



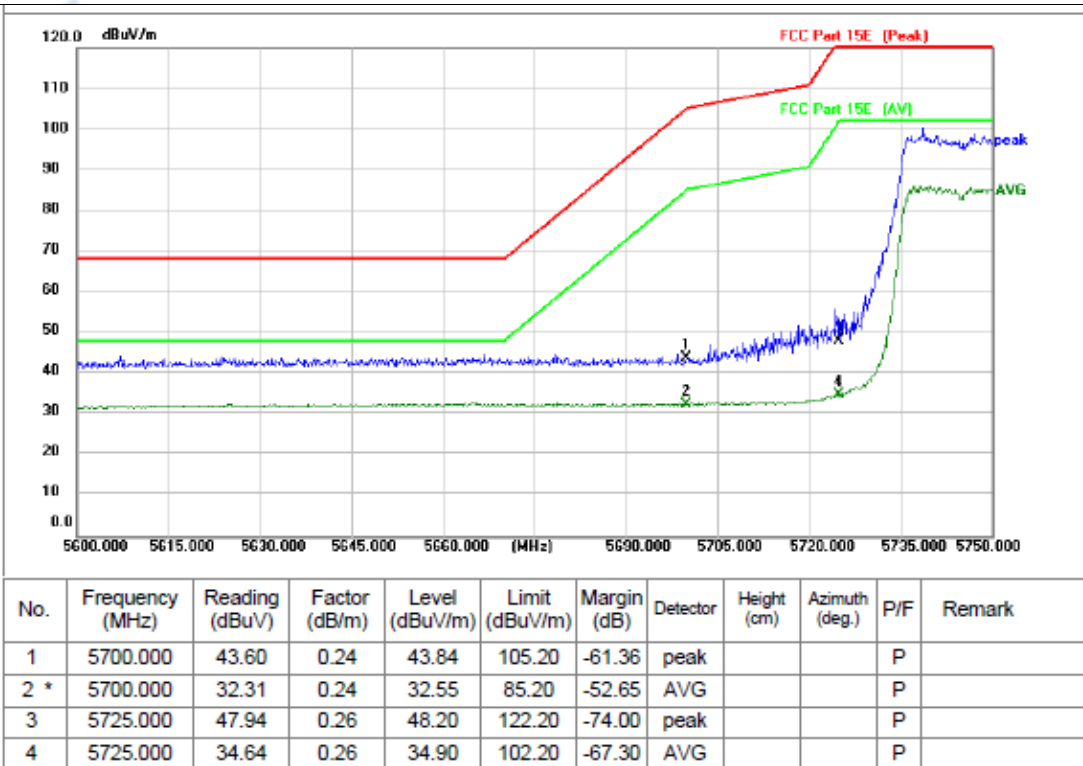
TM4 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 40 / CH: H



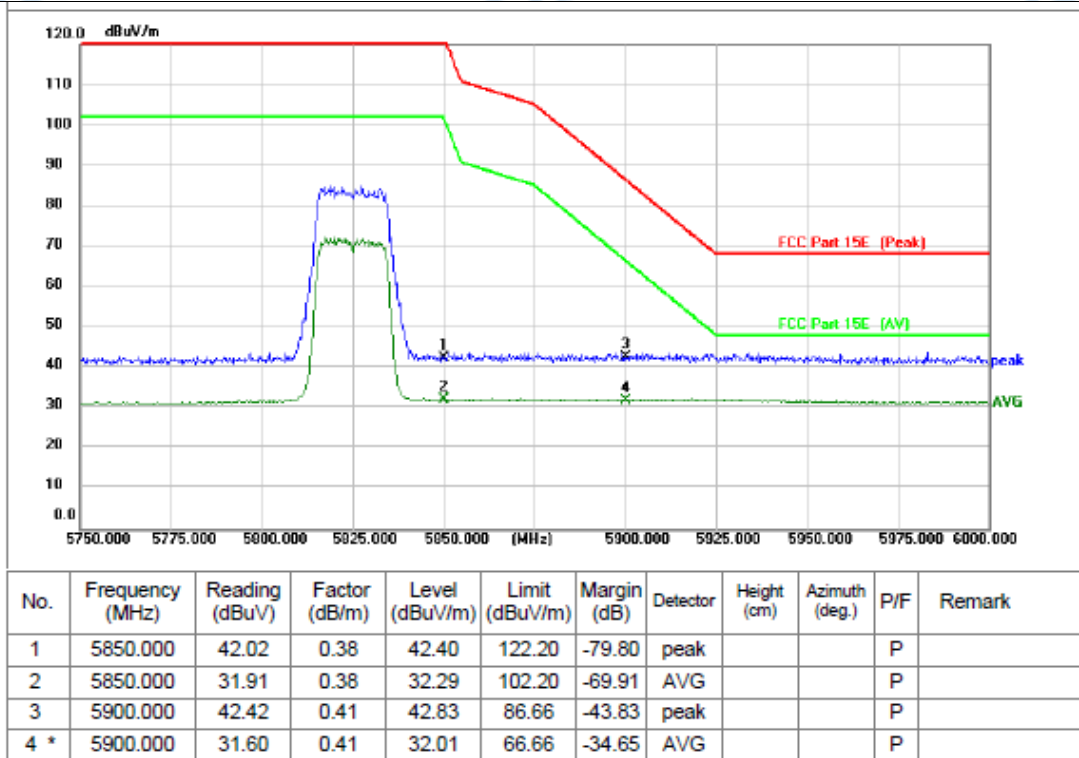
TM4 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: L



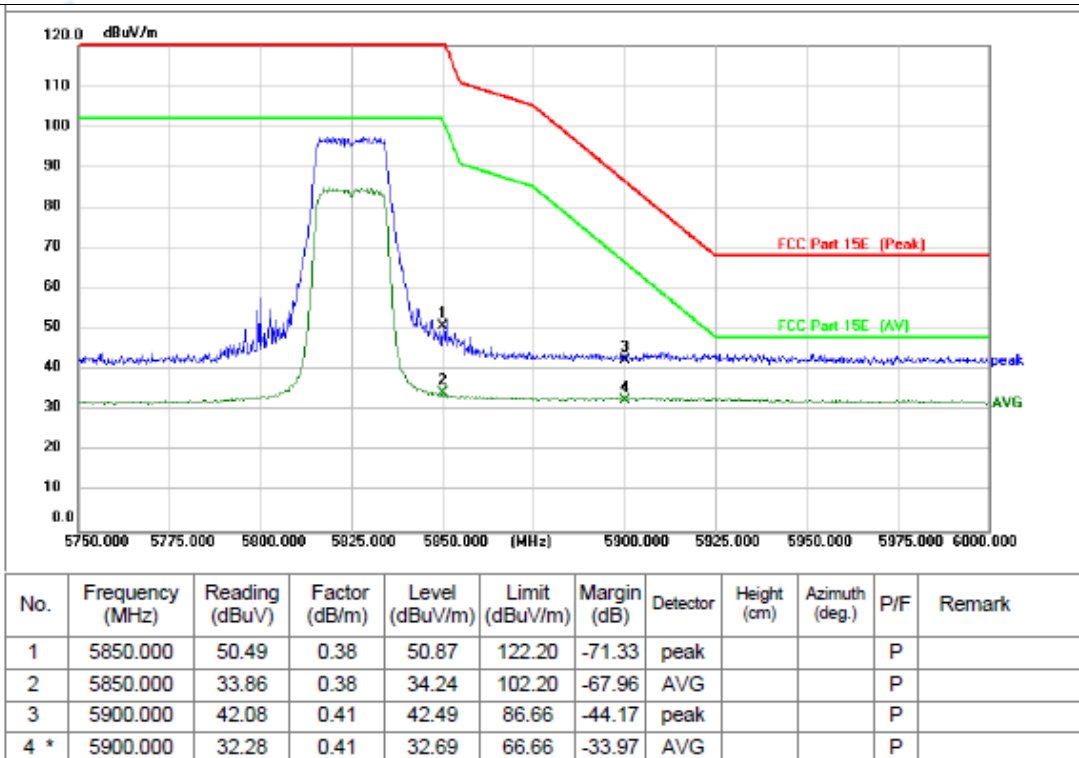
TM4 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: L



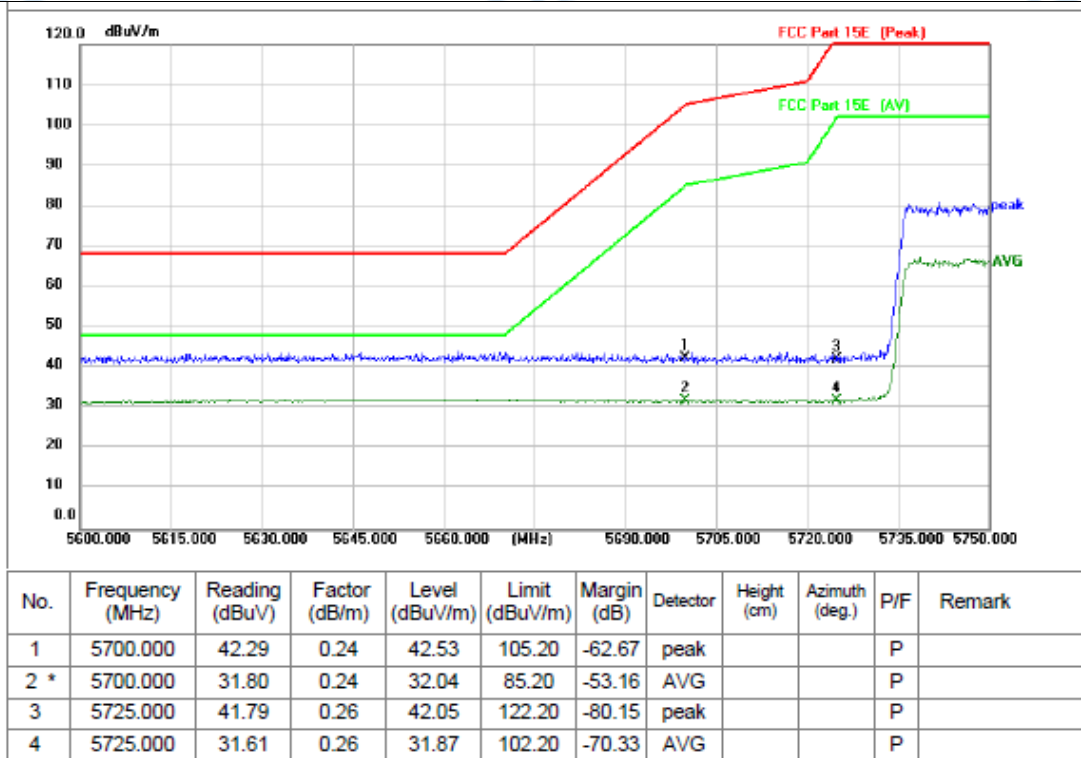
TM4 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: H



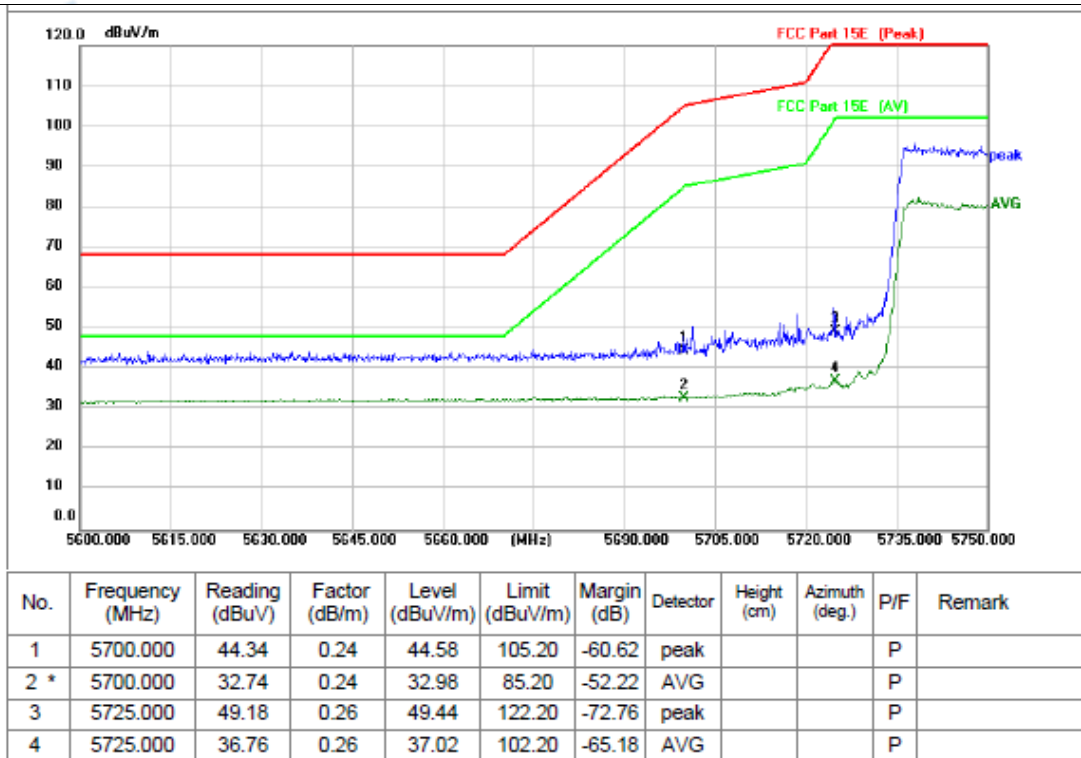
TM4 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: H

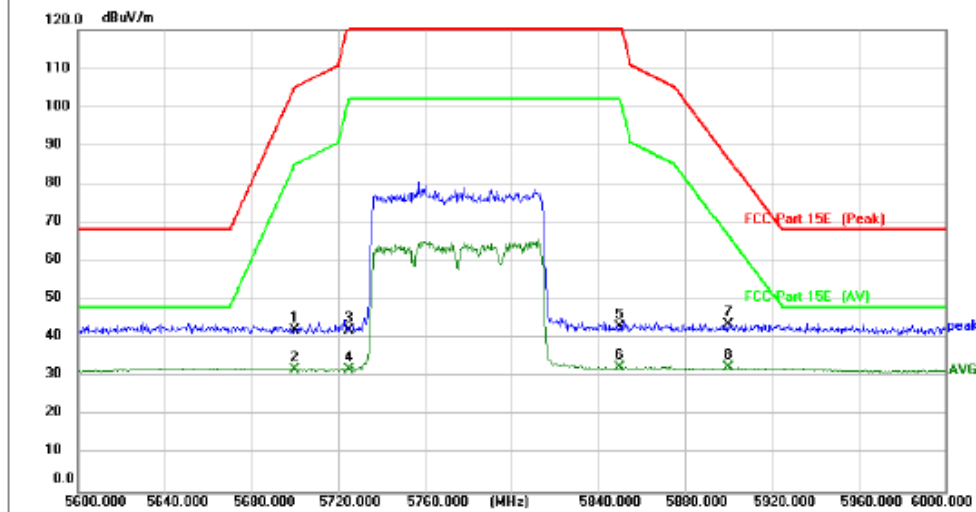


TM4 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 40 / CH: L

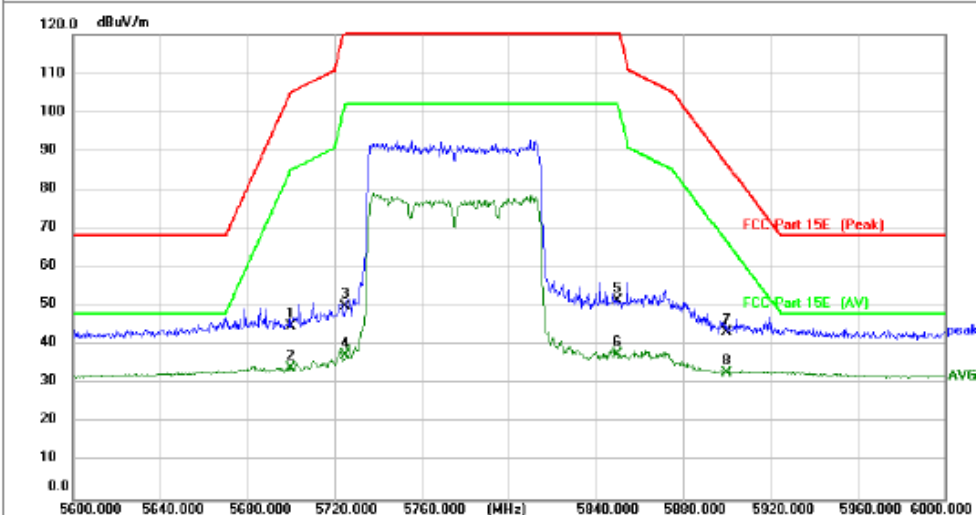


M4 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 40 / CH: L



TM4 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 80


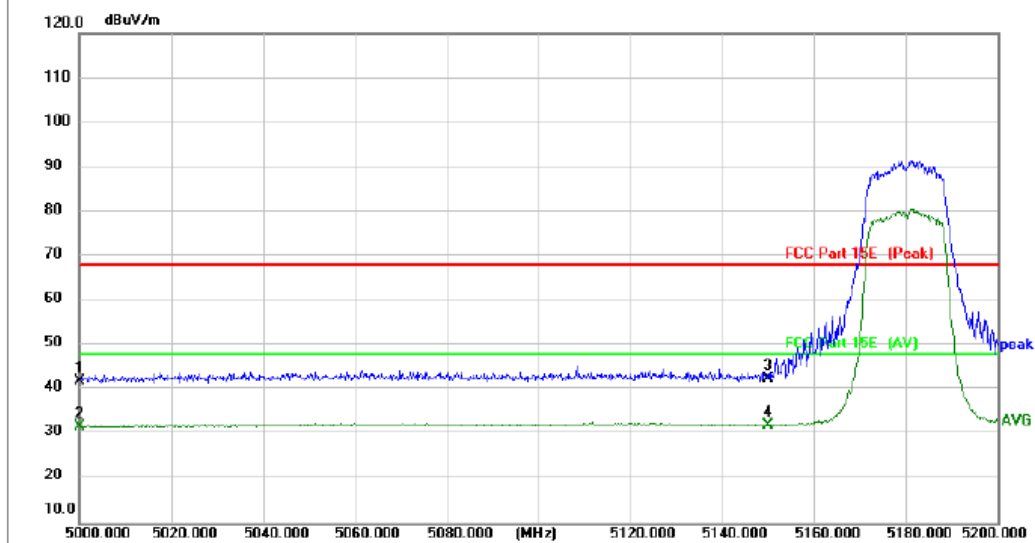
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5700.000	41.92	0.24	42.16	105.20	-63.04	peak			P	
2	5700.000	31.60	0.24	31.84	85.20	-53.36	AVG			P	
3	5725.000	41.84	0.26	42.10	122.20	-80.10	peak			P	
4	5725.000	31.72	0.26	31.98	102.20	-70.22	AVG			P	
5	5850.000	42.58	0.38	42.96	122.20	-79.24	peak			P	
6	5850.000	32.10	0.38	32.48	102.20	-69.72	AVG			P	
7	5900.000	43.25	0.41	43.66	86.66	-43.00	peak			P	
8 *	5900.000	32.10	0.41	32.51	66.66	-34.15	AVG			P	

TM4 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 80


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5700.000	44.66	0.24	44.90	105.20	-60.30	peak			P	
2	5700.000	33.84	0.24	34.08	85.20	-51.12	AVG			P	
3	5725.000	49.62	0.26	49.88	122.20	-72.32	peak			P	
4	5725.000	37.05	0.26	37.31	102.20	-64.89	AVG			P	
5	5850.000	51.05	0.38	51.43	122.20	-70.77	peak			P	
6	5850.000	37.32	0.38	37.70	102.20	-64.50	AVG			P	
7	5900.000	43.01	0.41	43.42	86.66	-43.24	peak			P	
8 *	5900.000	32.50	0.41	32.91	66.66	-33.75	AVG			P	

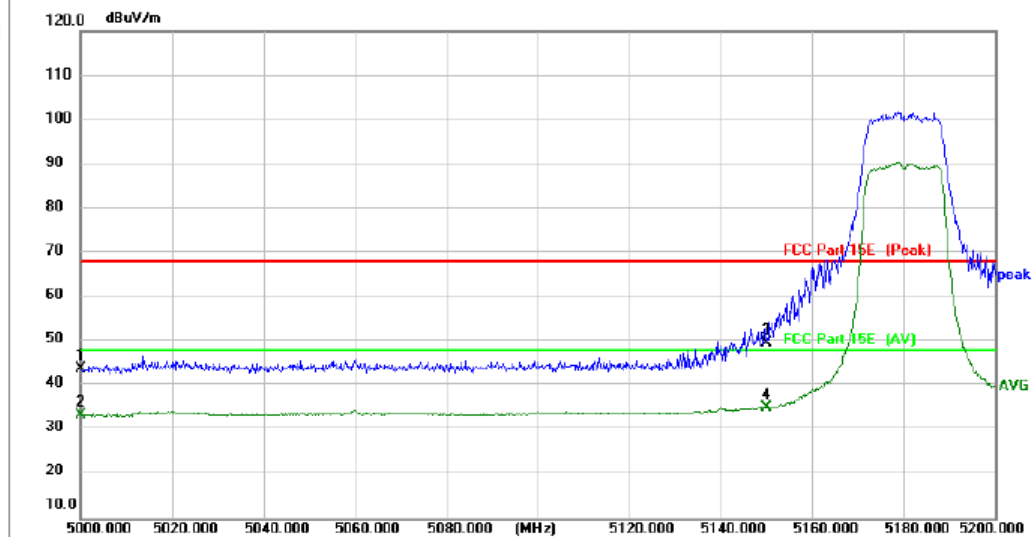
MIMO

TM1 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: L



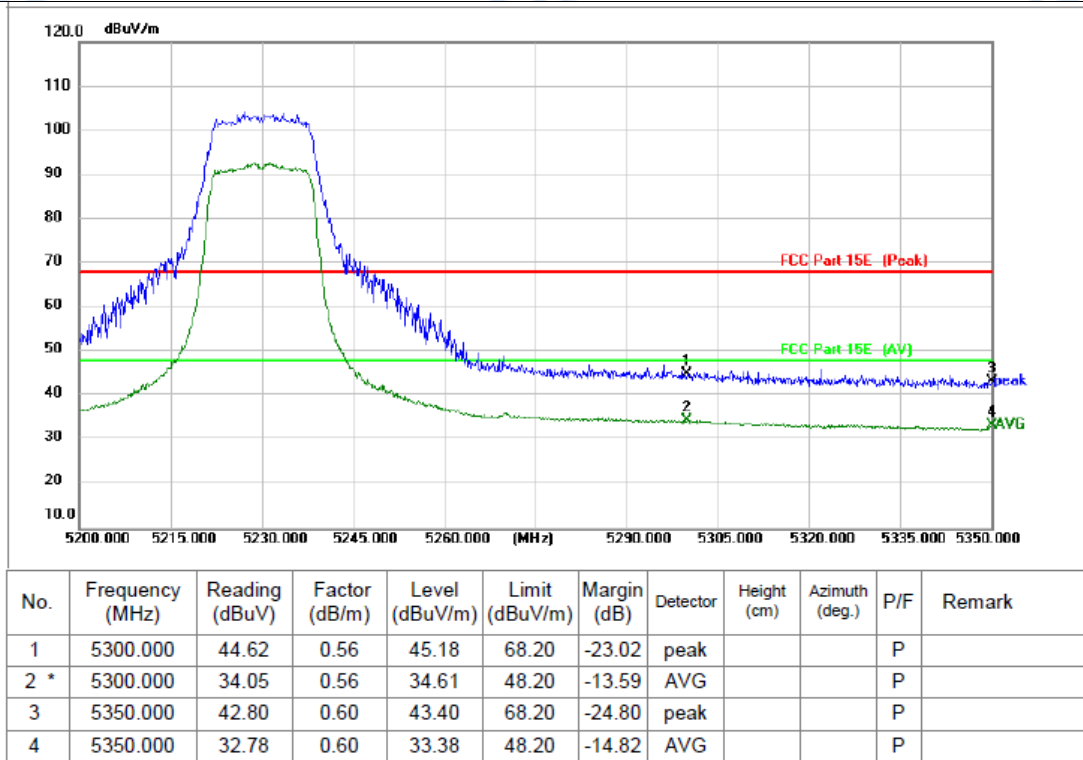
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5000.000	42.34	-0.23	42.11	68.20	-26.09	peak			P	
2	5000.000	32.02	-0.23	31.79	48.20	-16.41	AVG			P	
3	5150.000	42.65	0.05	42.70	68.20	-25.50	peak			P	
4 *	5150.000	32.09	0.05	32.14	48.20	-16.06	AVG			P	

TM1 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: L

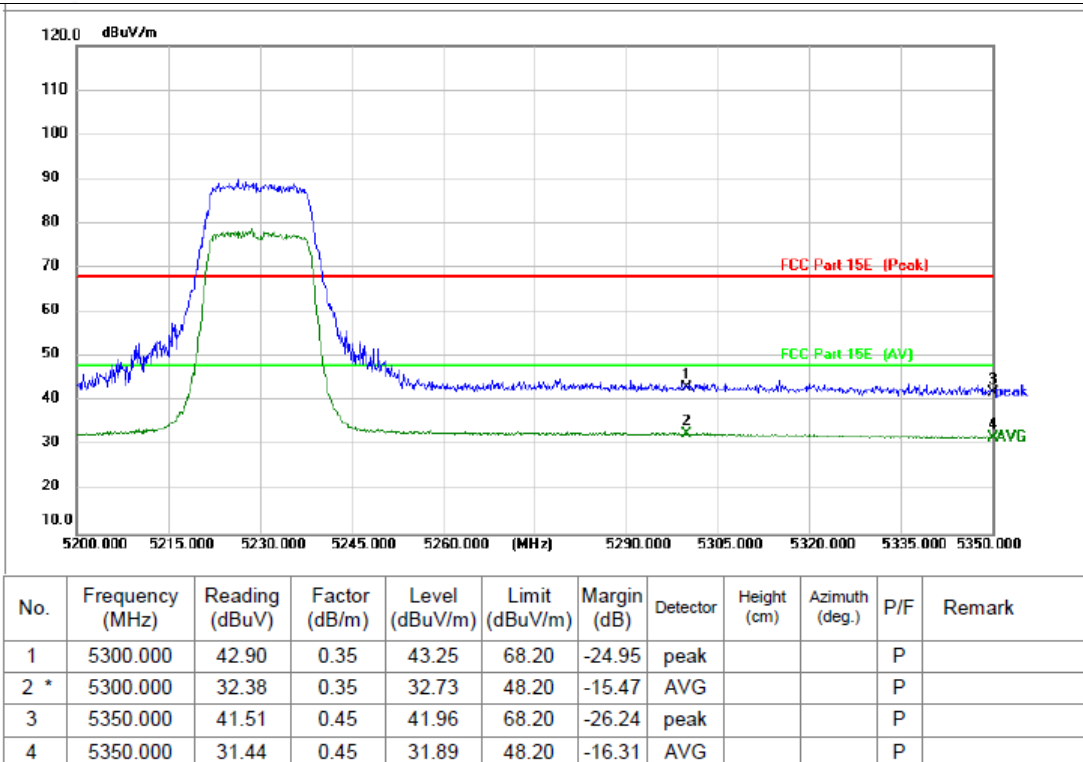


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5000.000	43.68	0.37	44.05	68.20	-24.15	peak			P	
2	5000.000	33.04	0.37	33.41	48.20	-14.79	AVG			P	
3	5150.000	49.41	0.46	49.87	68.20	-18.33	peak			P	
4 *	5150.000	34.71	0.46	35.17	48.20	-13.03	AVG			P	

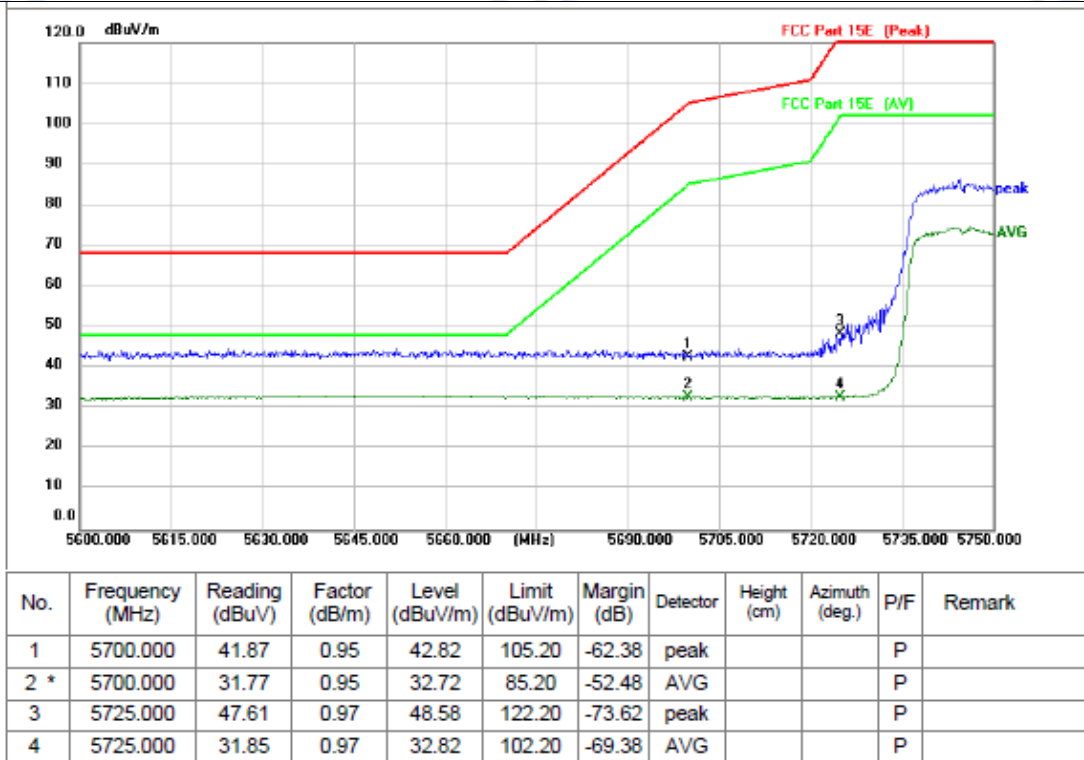
TM1 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: H



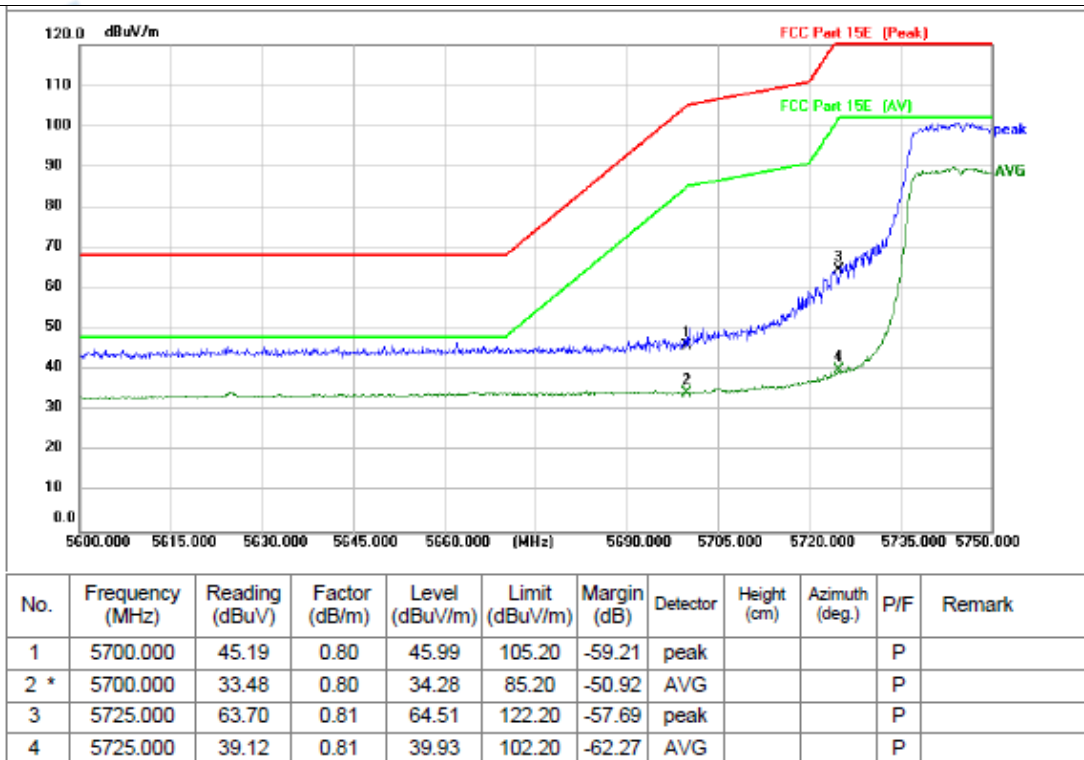
TM1 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: H



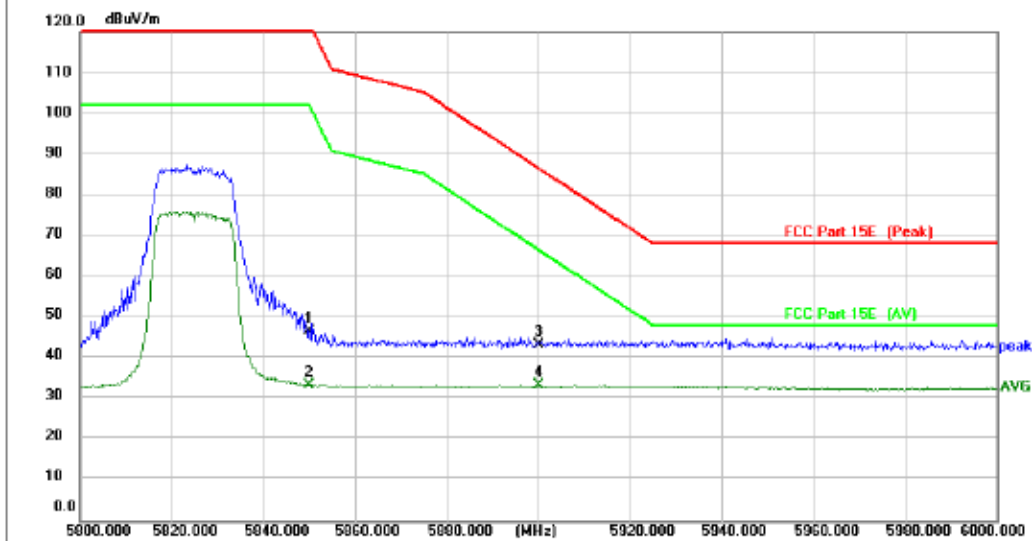
TM1 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: L



TM1 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: L

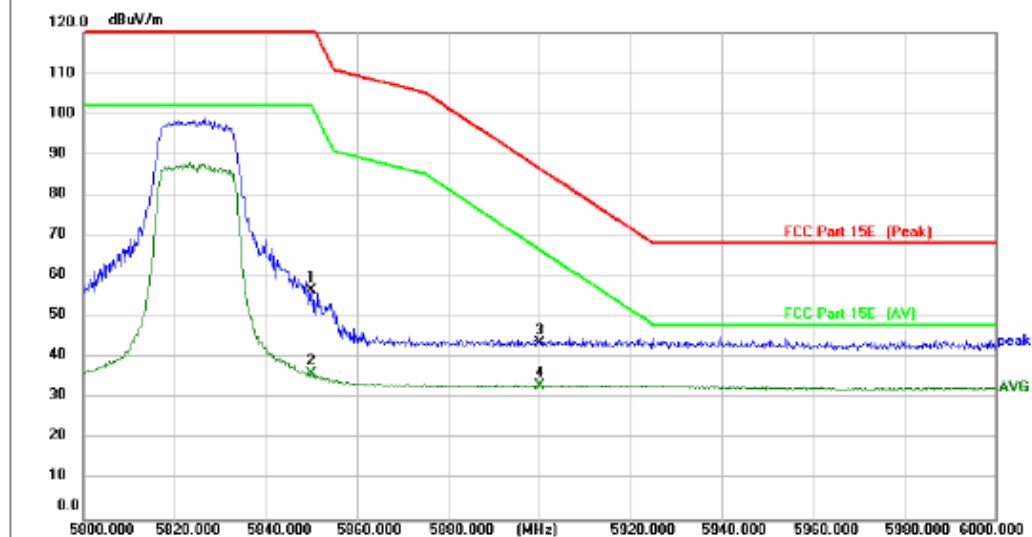


TM1 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: H



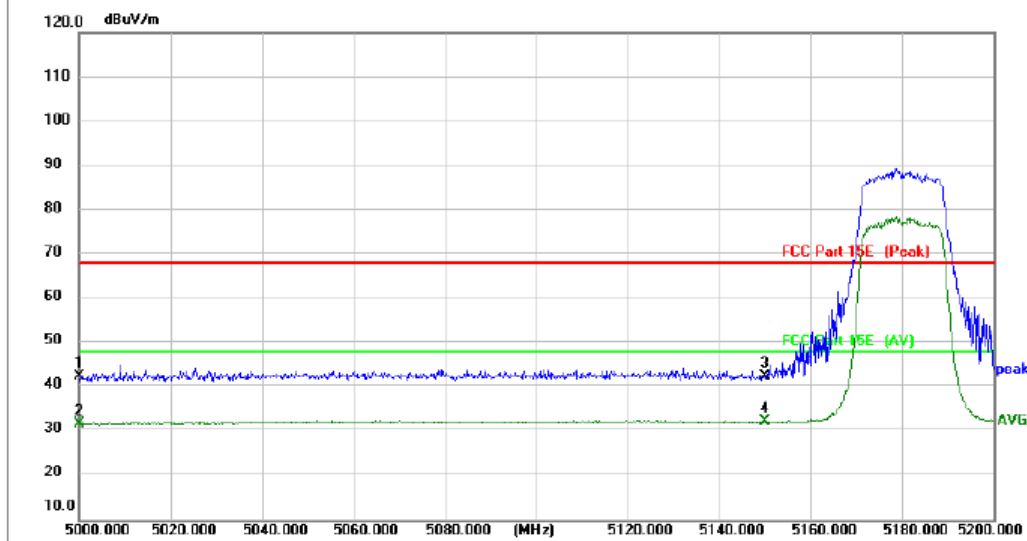
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5850.000	45.43	1.13	46.56	122.20	-75.64	peak			P	
2	5850.000	32.39	1.13	33.52	102.20	-68.68	AVG			P	
3	5900.000	42.02	1.18	43.20	86.66	-43.46	peak			P	
4 *	5900.000	32.27	1.18	33.45	66.66	-33.21	AVG			P	

TM1 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: H



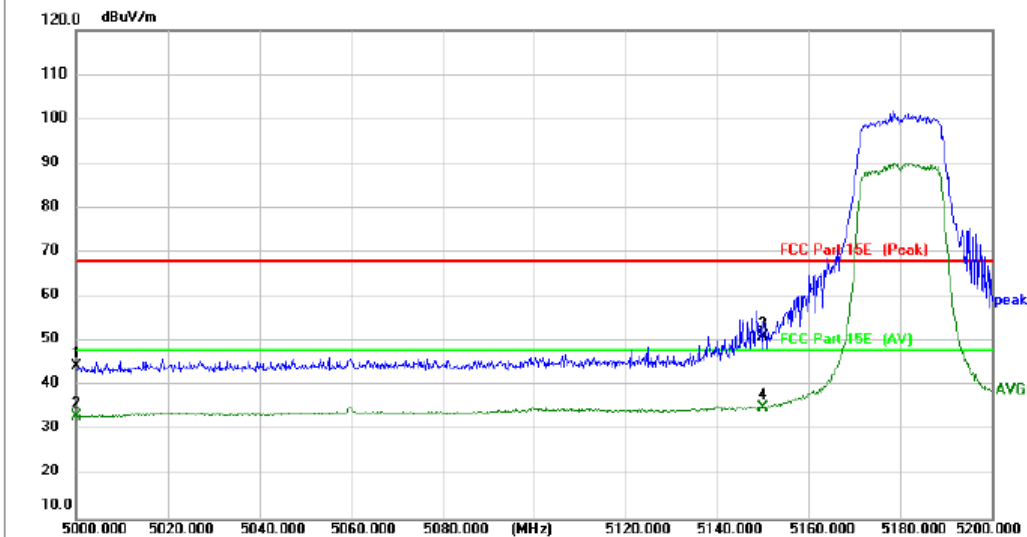
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5850.000	55.69	0.91	56.60	122.20	-65.60	peak			P	
2	5850.000	35.22	0.91	36.13	102.20	-66.07	AVG			P	
3	5900.000	42.66	0.93	43.59	86.66	-43.07	peak			P	
4 *	5900.000	32.19	0.93	33.12	66.66	-33.54	AVG			P	

TM2 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: L



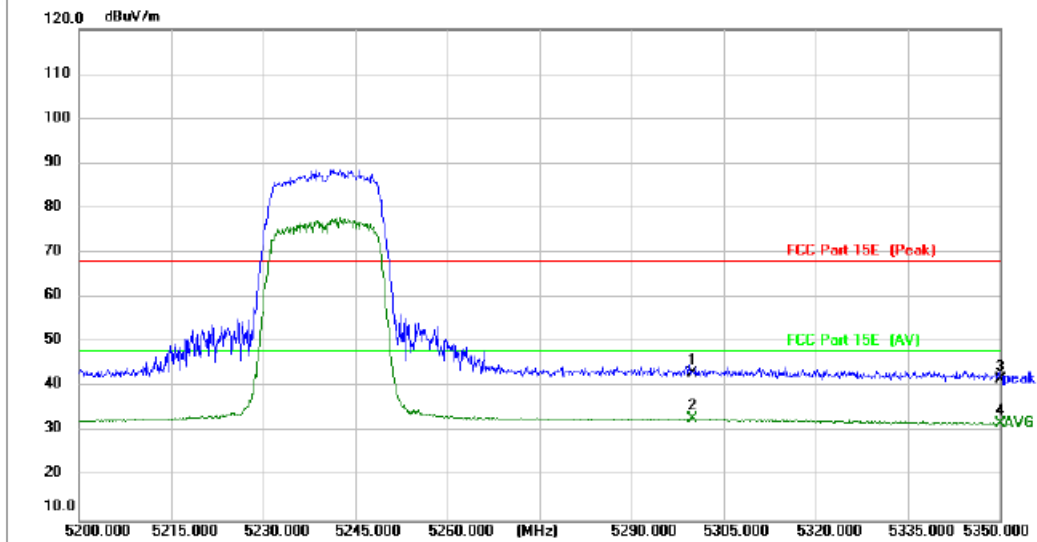
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5000.000	42.77	-0.23	42.54	68.20	-25.66	peak			P	
2	5000.000	32.10	-0.23	31.87	48.20	-16.33	AVG			P	
3	5150.000	42.61	0.05	42.66	68.20	-25.54	peak			P	
4 *	5150.000	32.25	0.05	32.30	48.20	-15.90	AVG			P	

TM2 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: L



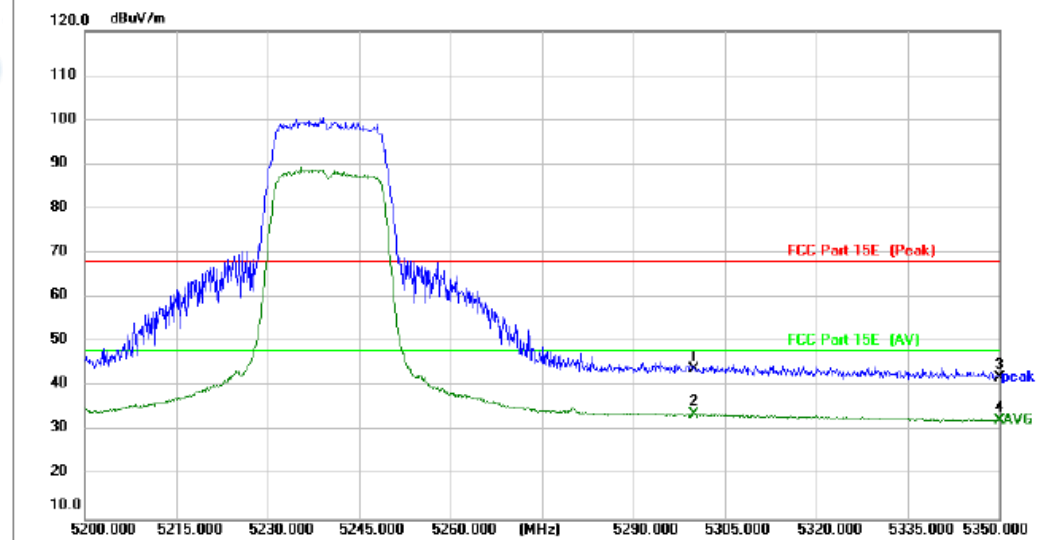
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5000.000	44.01	0.37	44.38	68.20	-23.82	peak			P	
2	5000.000	32.79	0.37	33.16	48.20	-15.04	AVG			P	
3	5150.000	50.61	0.46	51.07	68.20	-17.13	peak			P	
4 *	5150.000	34.67	0.46	35.13	48.20	-13.07	AVG			P	

TM2 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: H



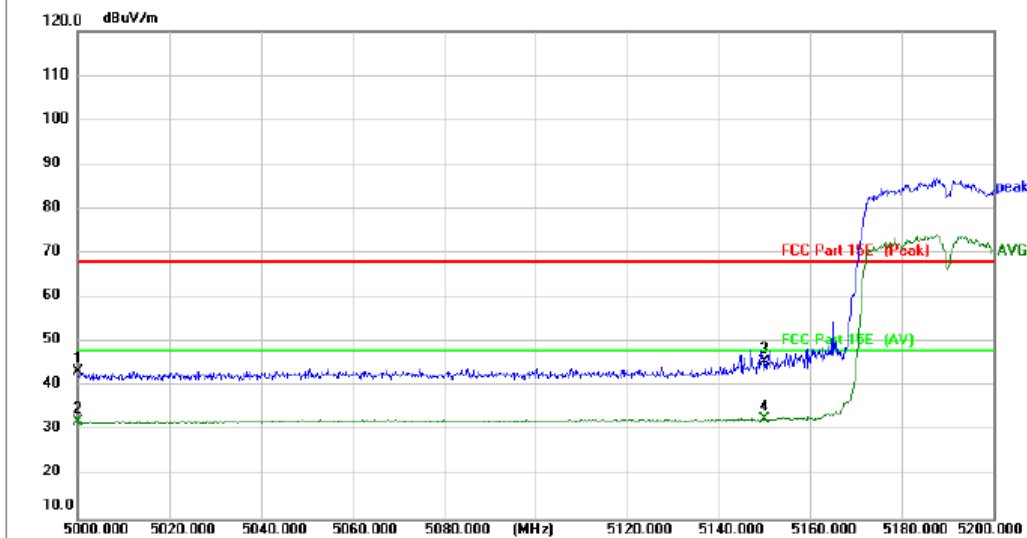
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5300.000	42.92	0.35	43.27	68.20	-24.93	peak			P	
2 *	5300.000	32.57	0.35	32.92	48.20	-15.28	AVG			P	
3	5350.000	41.43	0.45	41.88	68.20	-26.32	peak			P	
4	5350.000	31.34	0.45	31.79	48.20	-16.41	AVG			P	

TM2 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: H



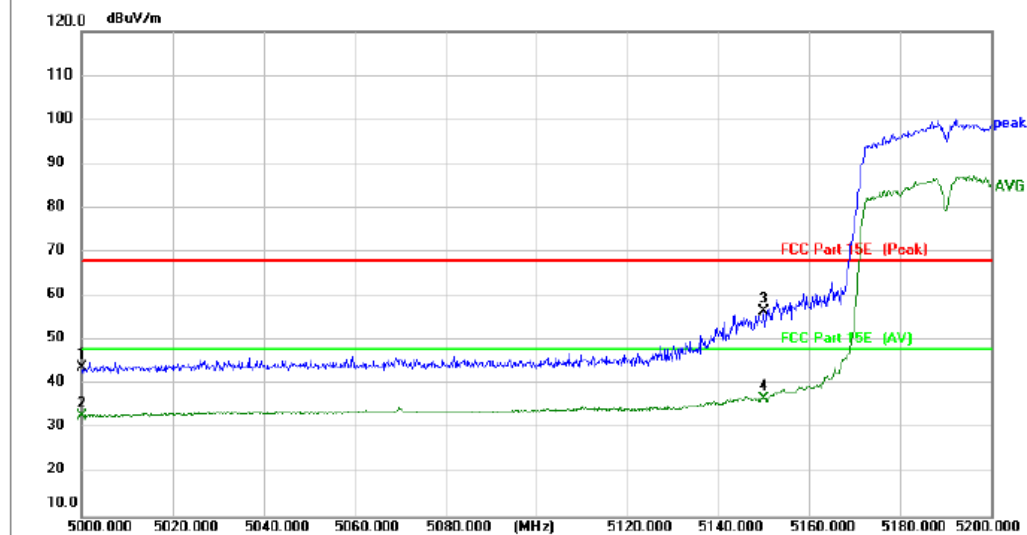
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5300.000	43.38	0.56	43.94	68.20	-24.26	peak			P	
2 *	5300.000	33.27	0.56	33.83	48.20	-14.37	AVG			P	
3	5350.000	41.50	0.60	42.10	68.20	-26.10	peak			P	
4	5350.000	31.84	0.60	32.44	48.20	-15.76	AVG			P	

TM2 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 40 / CH: L



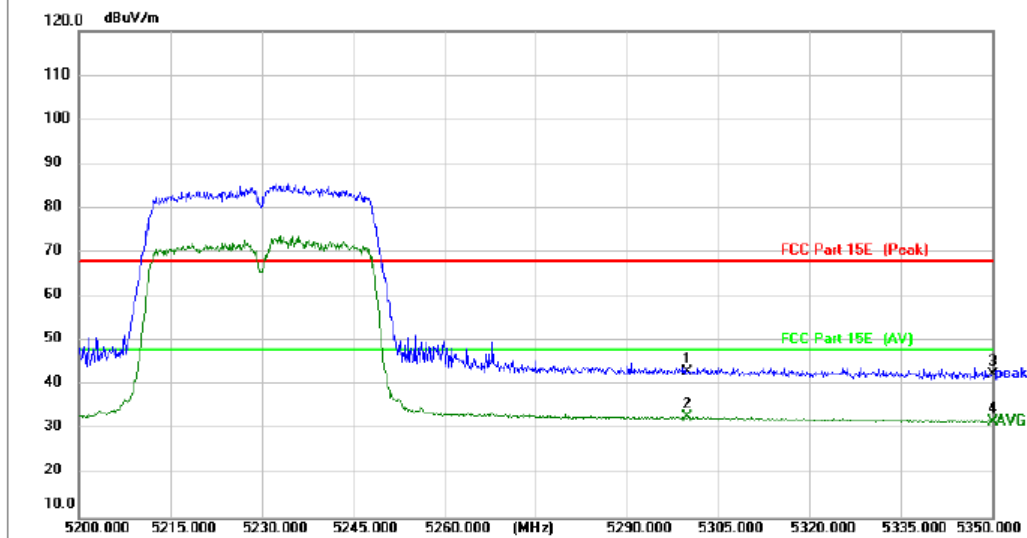
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5000.000	43.69	-0.23	43.46	68.20	-24.74	peak			P	
2	5000.000	32.39	-0.23	32.16	48.20	-16.04	AVG			P	
3	5150.000	45.48	0.05	45.53	68.20	-22.67	peak			P	
4 *	5150.000	32.68	0.05	32.73	48.20	-15.47	AVG			P	

TM2 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 40 / CH: L



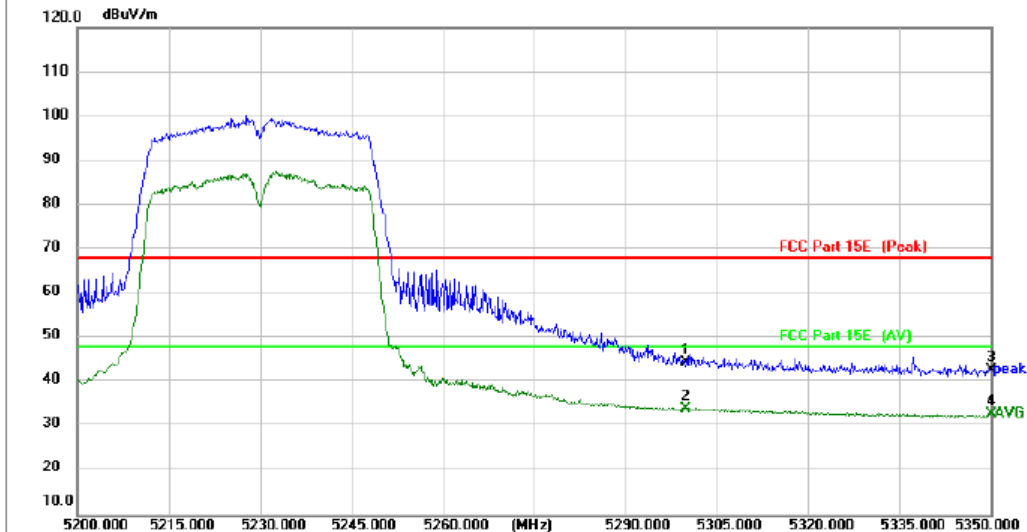
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5000.000	43.58	0.37	43.95	68.20	-24.25	peak			P	
2	5000.000	32.73	0.37	33.10	48.20	-15.10	AVG			P	
3	5150.000	56.16	0.46	56.62	68.20	-11.58	peak			P	
4 *	5150.000	36.46	0.46	36.92	48.20	-11.28	AVG			P	

TM2 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 40 / CH: H



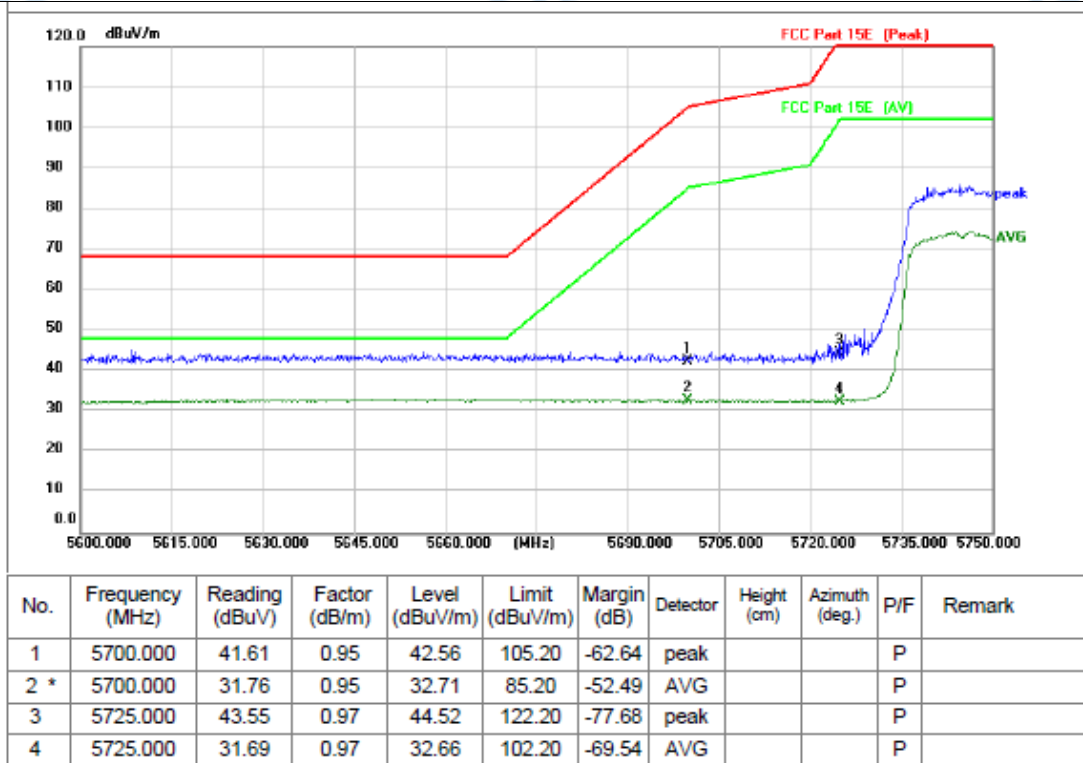
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5300.000	42.80	0.35	43.15	68.20	-25.05	peak			P	
2 *	5300.000	32.57	0.35	32.92	48.20	-15.28	AVG			P	
3	5350.000	42.16	0.45	42.61	68.20	-25.59	peak			P	
4	5350.000	31.29	0.45	31.74	48.20	-16.46	AVG			P	

TM2 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 40 / CH: H

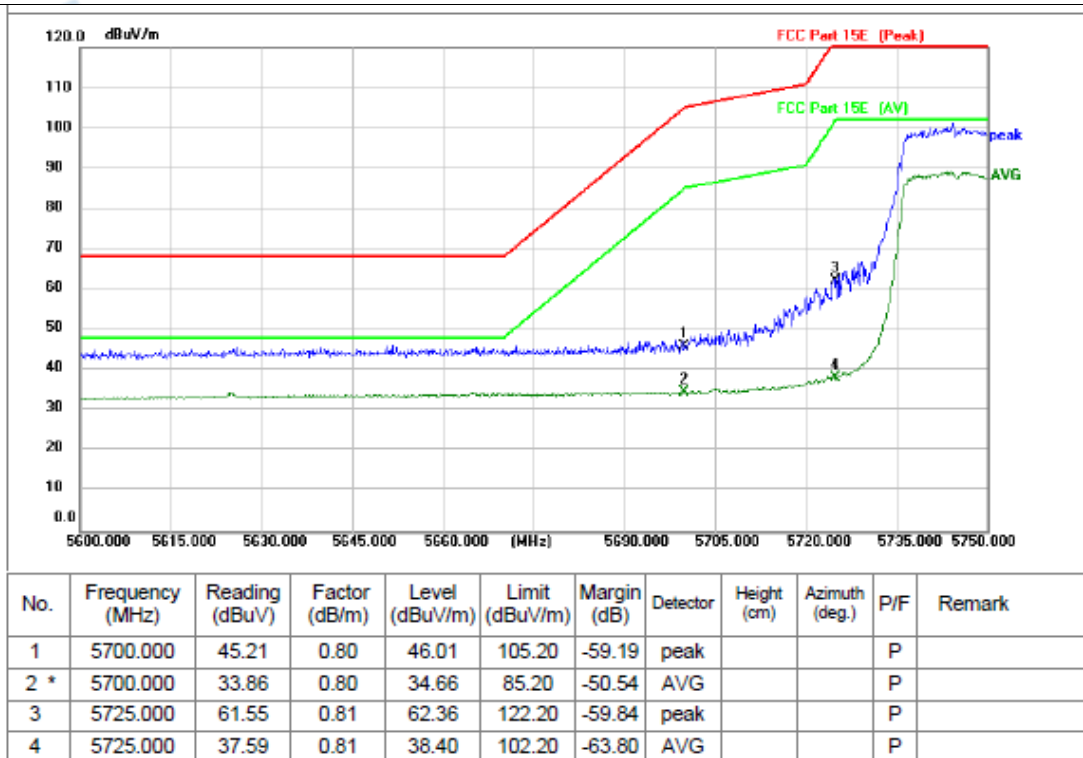


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5300.000	43.83	0.56	44.39	68.20	-23.81	peak			P	
2 *	5300.000	33.43	0.56	33.99	48.20	-14.21	AVG			P	
3	5350.000	42.21	0.60	42.81	68.20	-25.39	peak			P	
4	5350.000	32.43	0.60	33.03	48.20	-15.17	AVG			P	

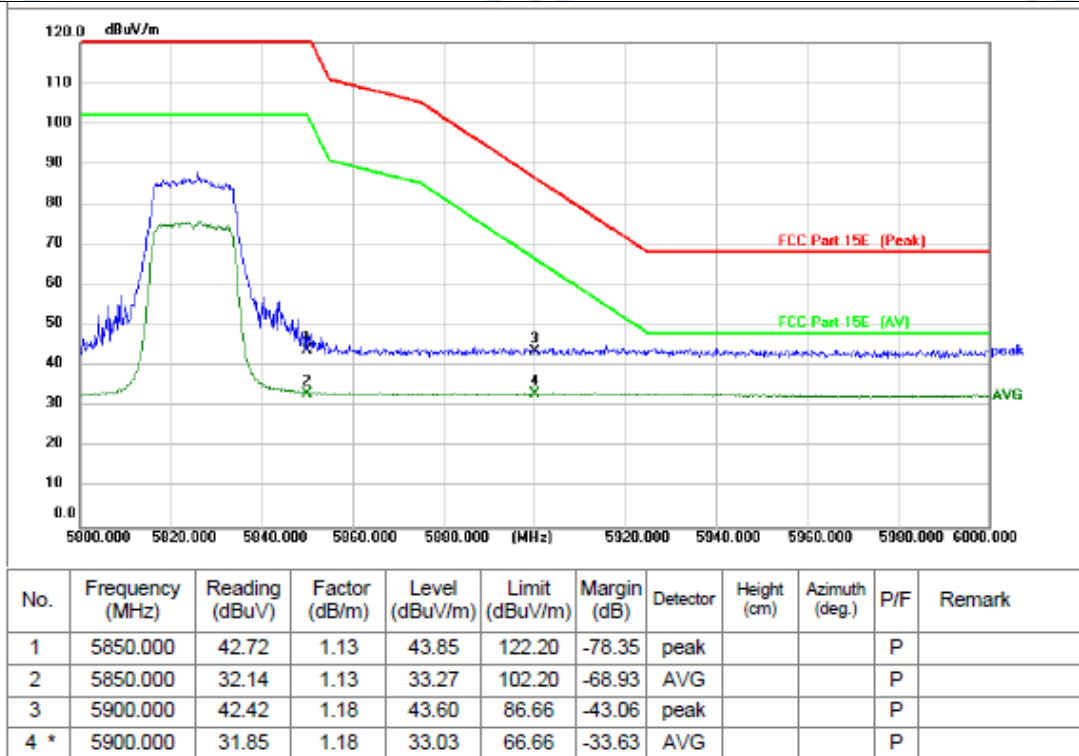
TM2 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: L



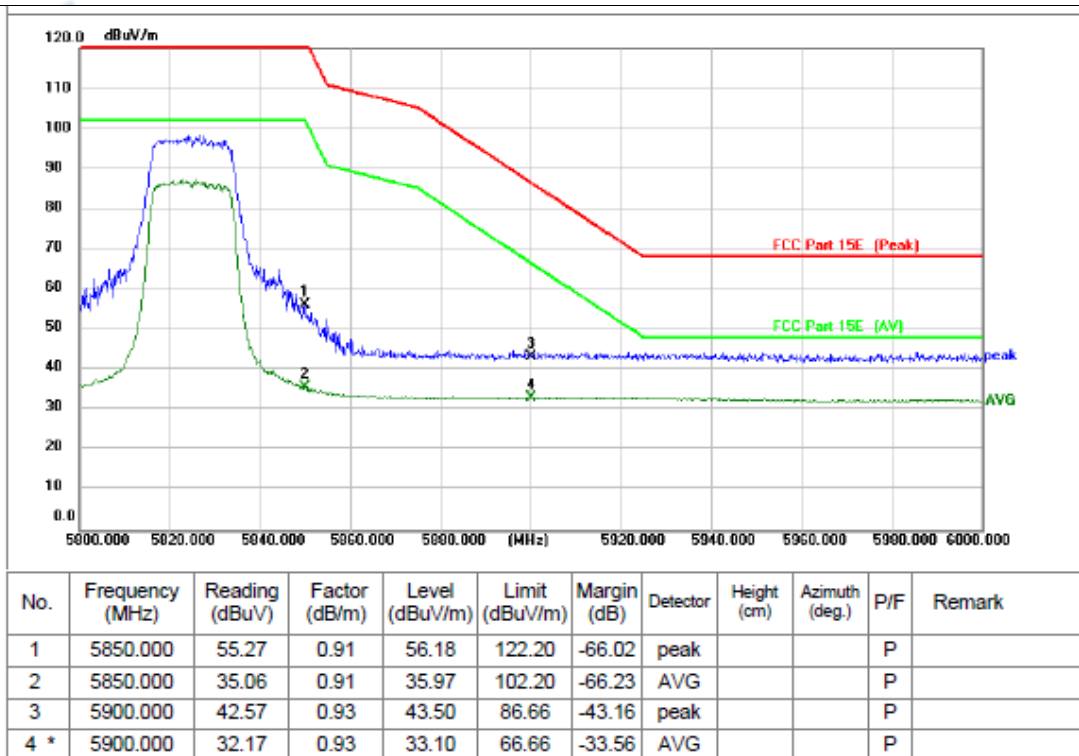
TM2 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: L



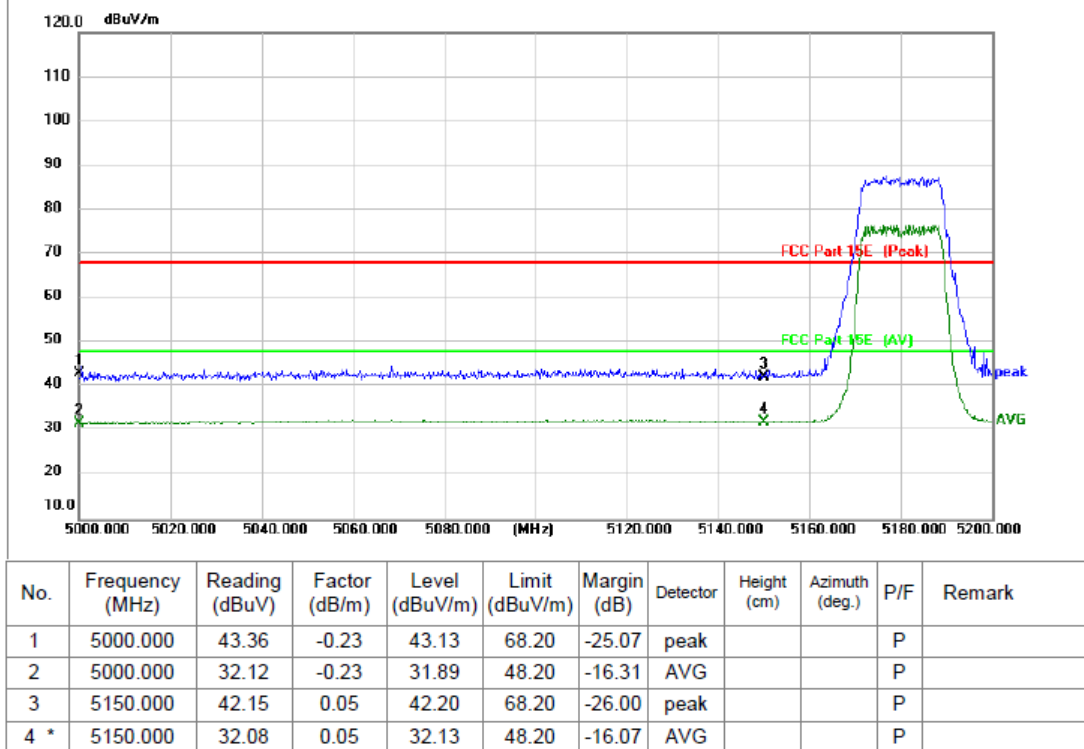
TM2 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: H



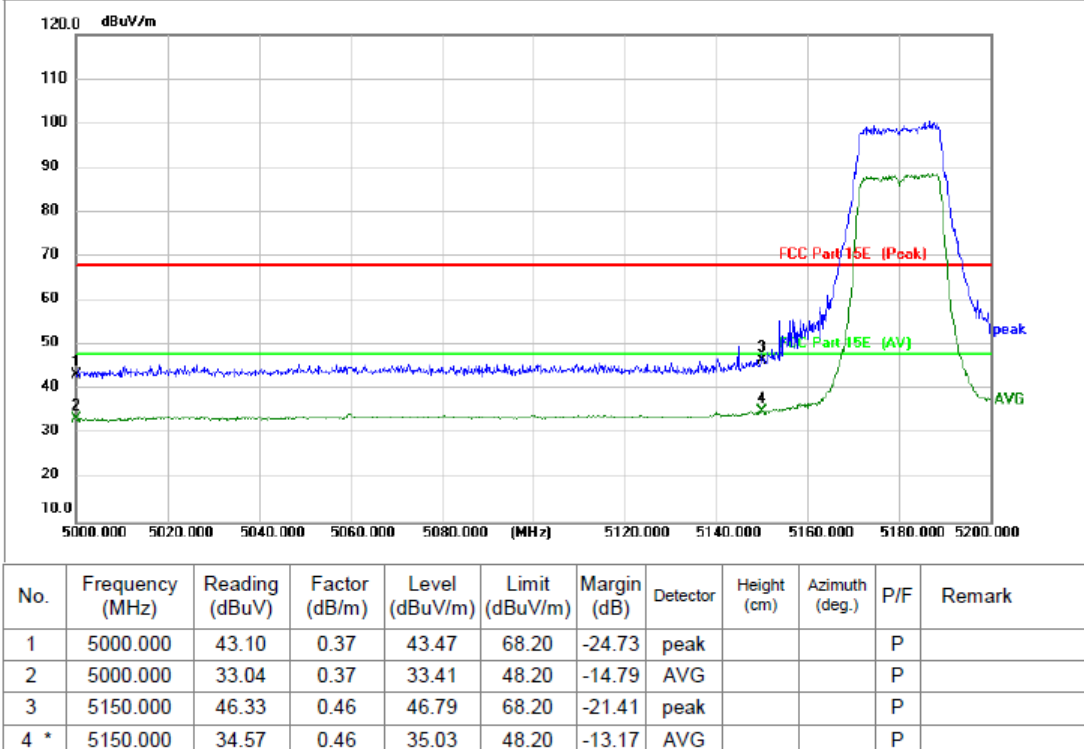
TM2 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: H



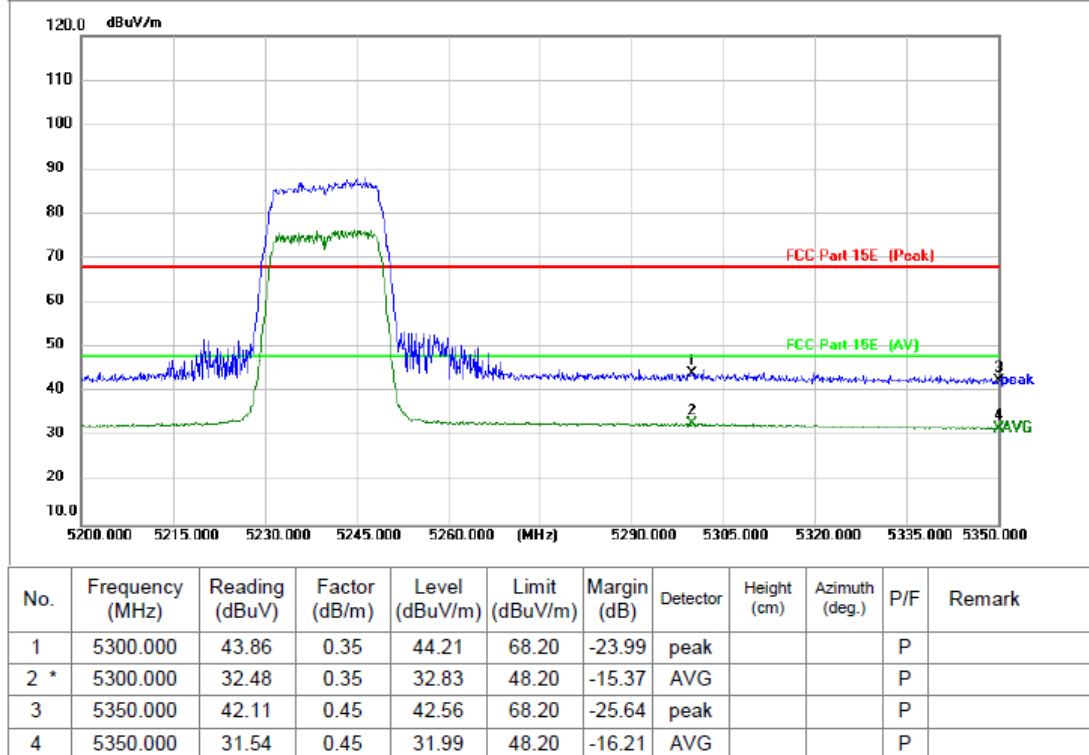
TM3 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: L



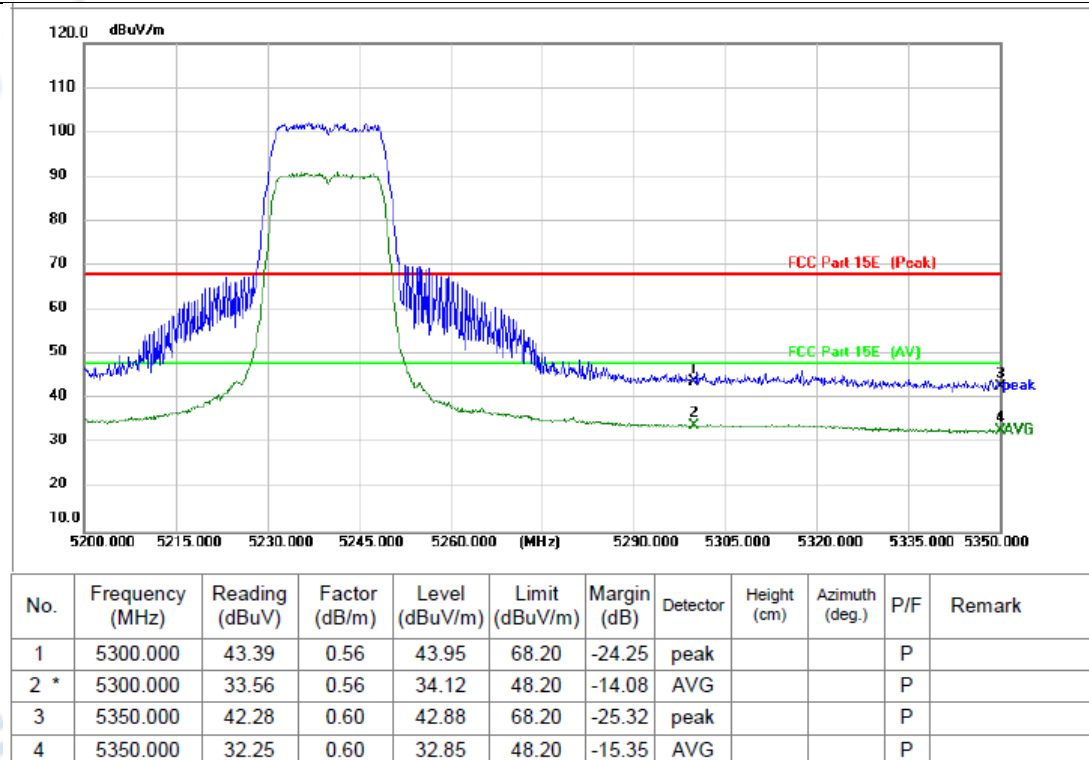
TM3 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: L



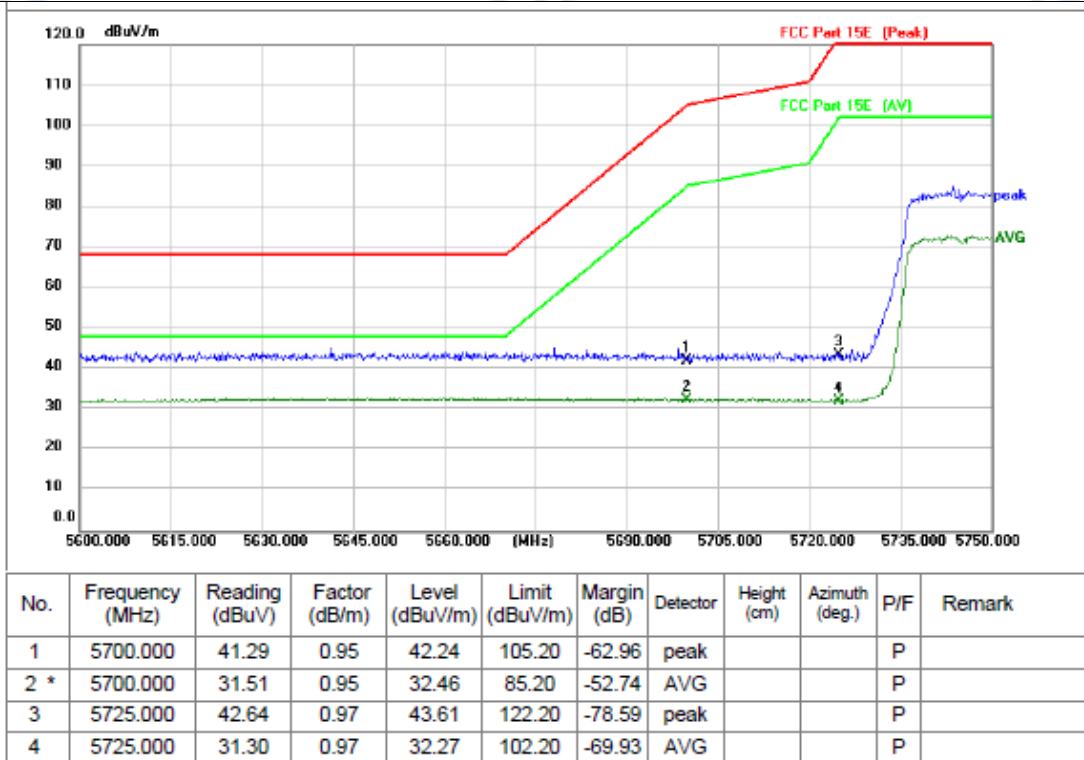
TM3 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: H



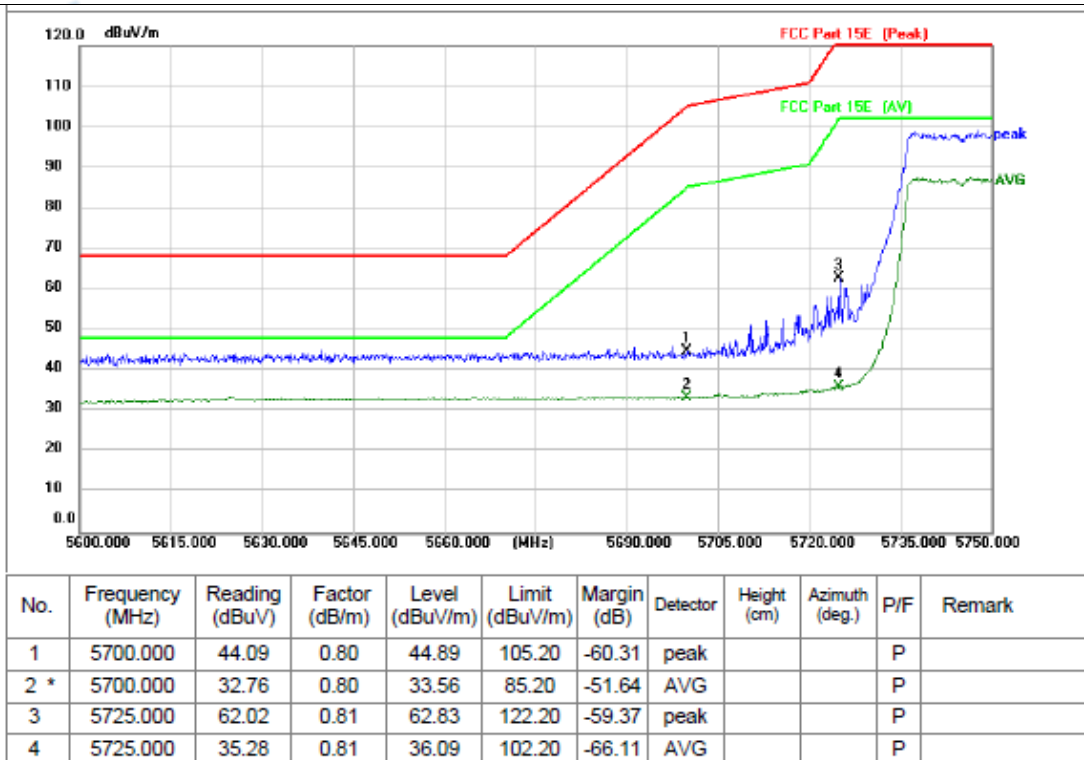
TM3 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: H



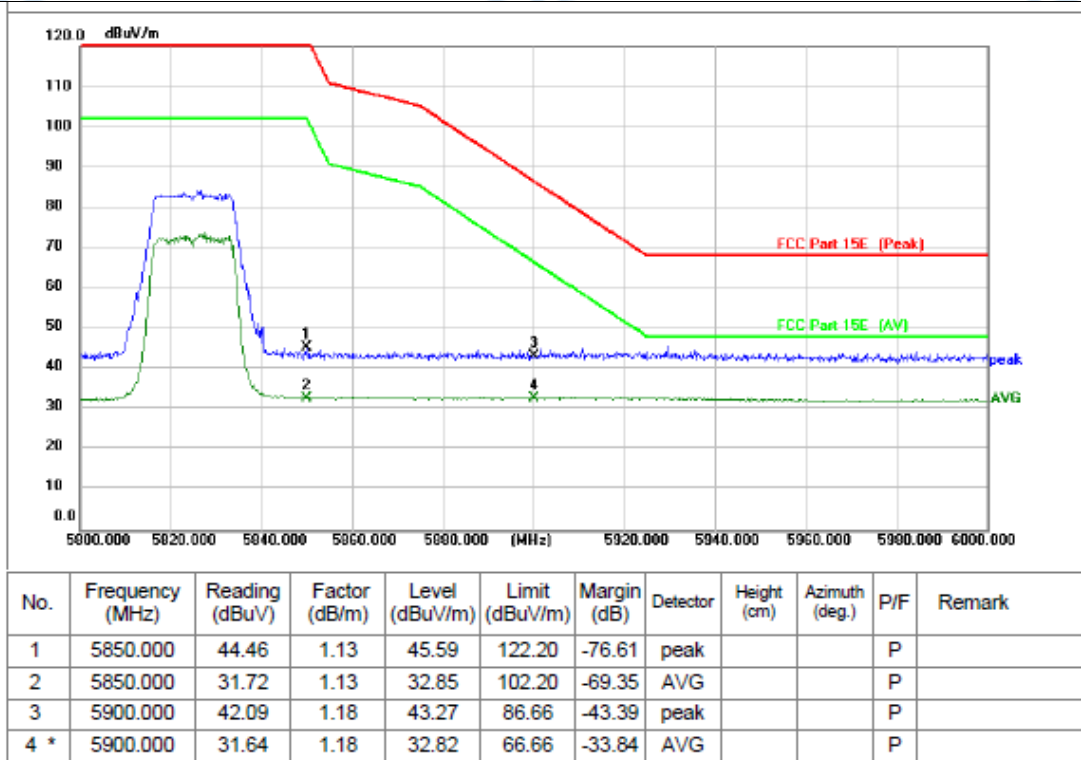
TM3 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: L



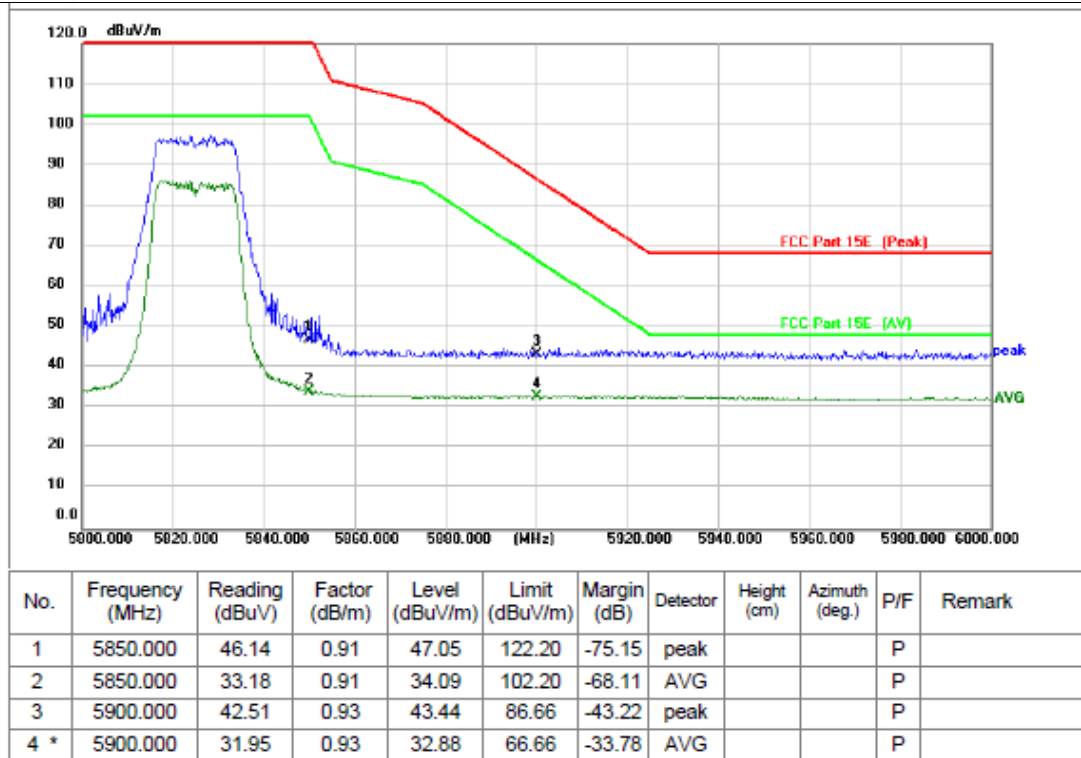
TM3 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: L



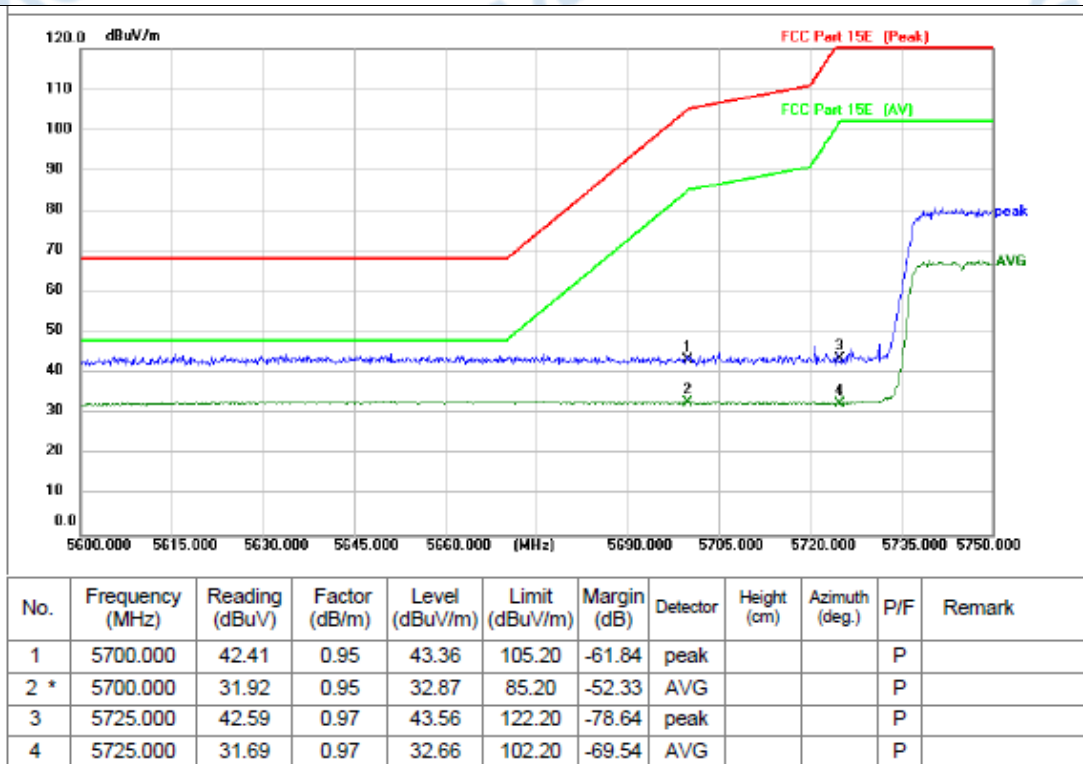
TM3 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: H



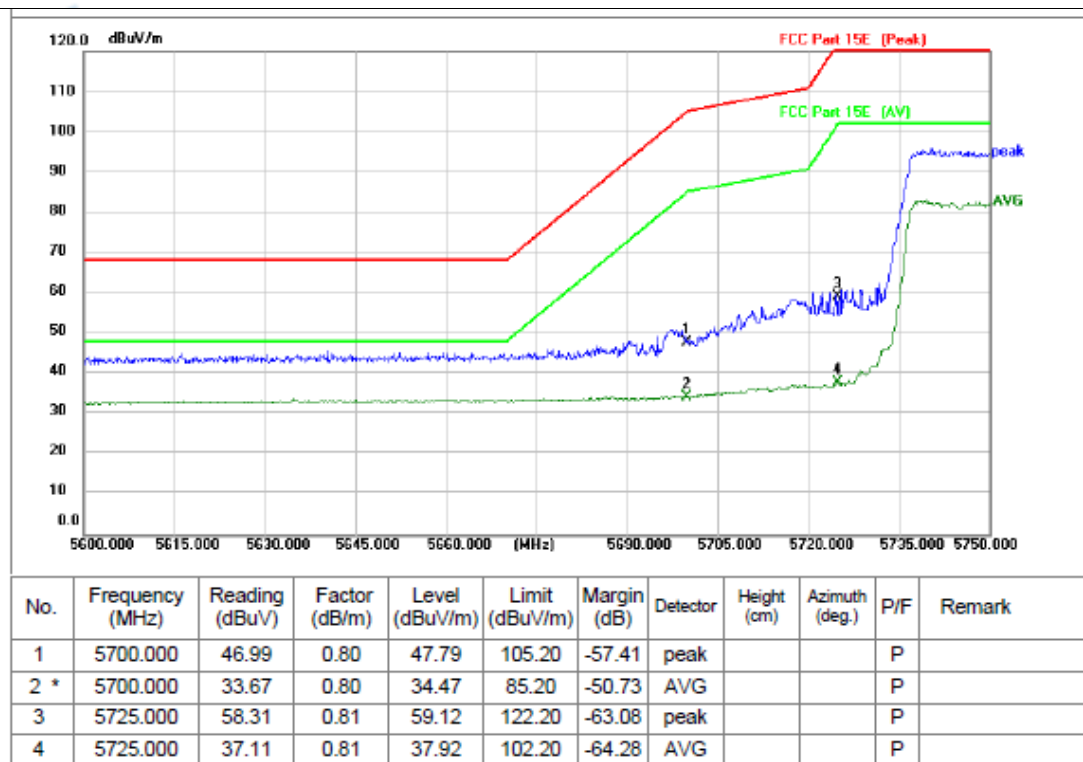
TM3 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: H



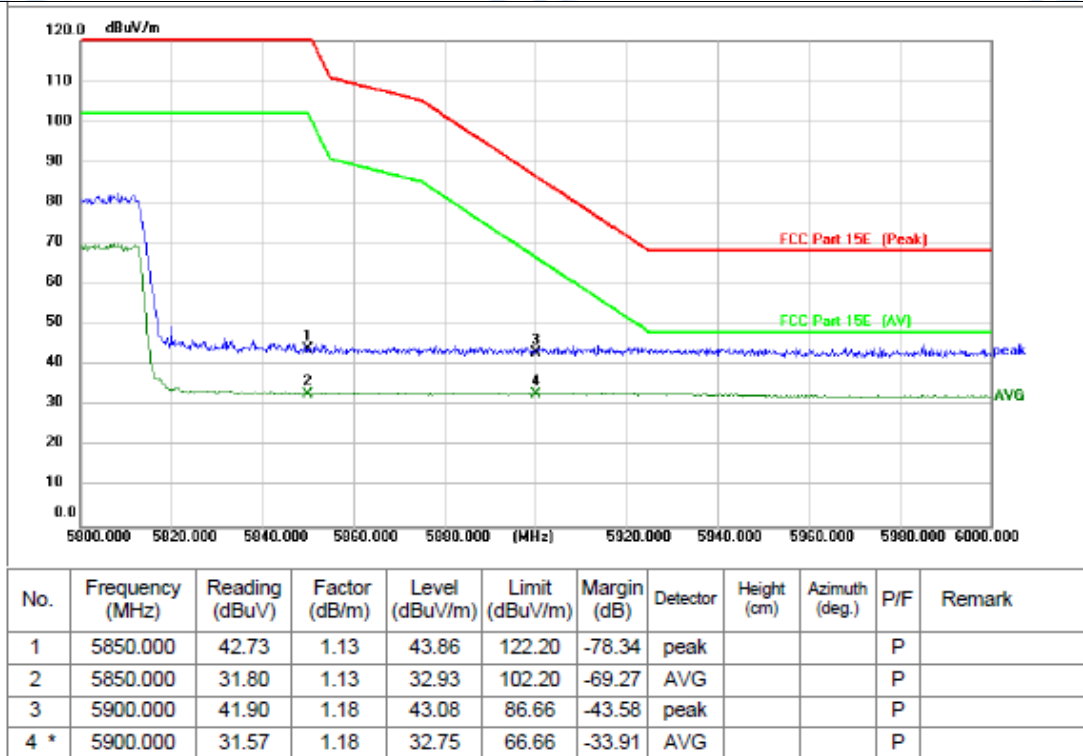
TM3 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 40 / CH: L



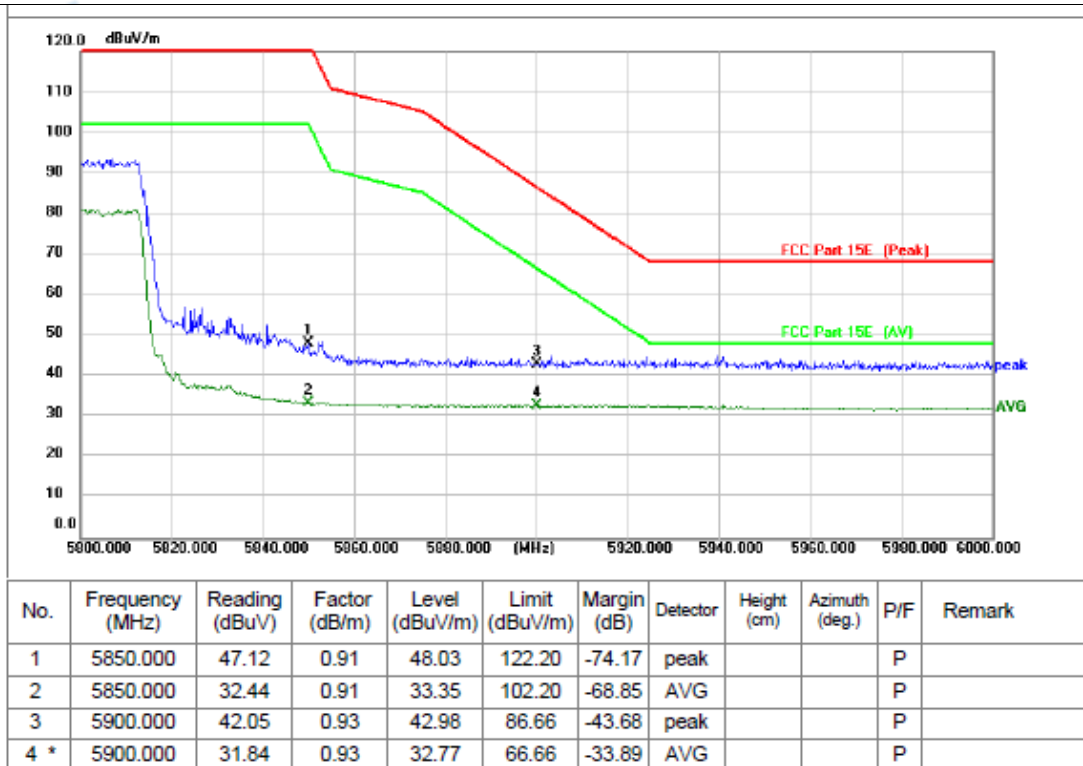
TM3 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 40 / CH: L



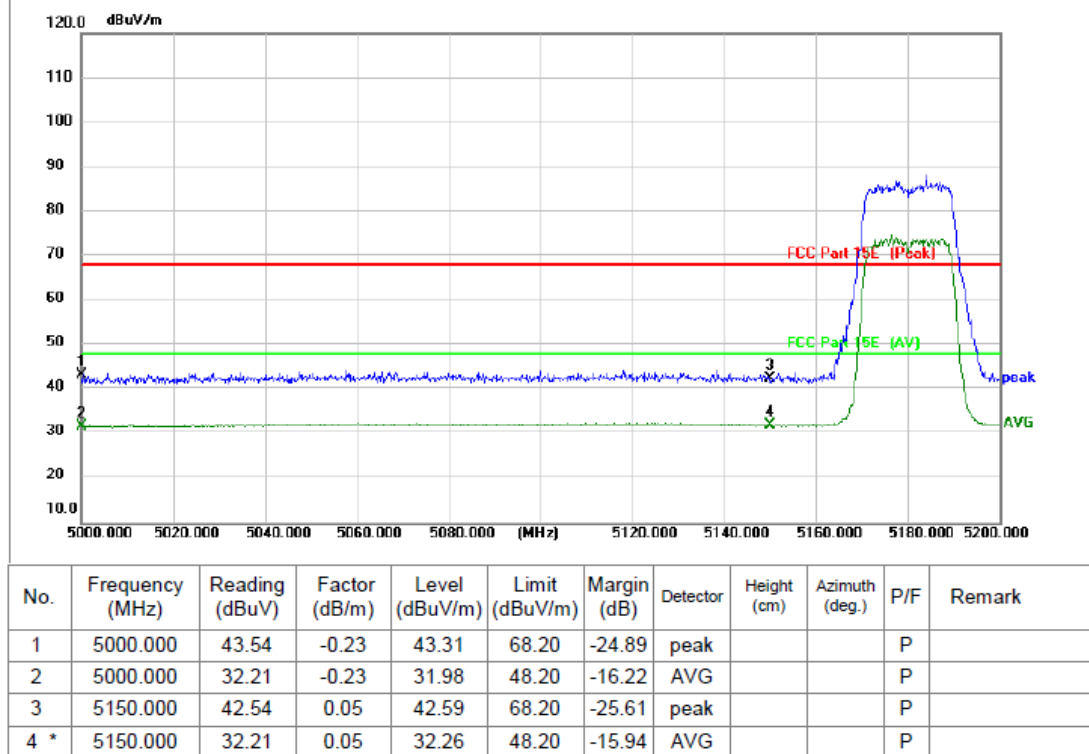
TM3 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 40 / CH: H



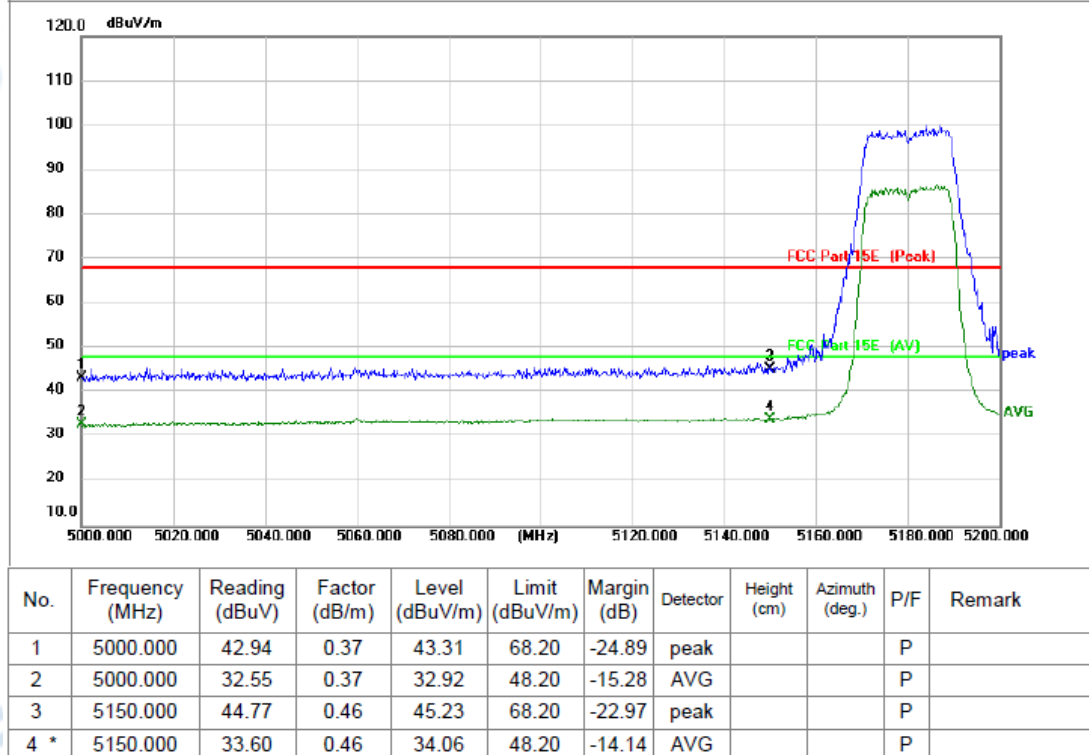
TM3 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 40 / CH: H



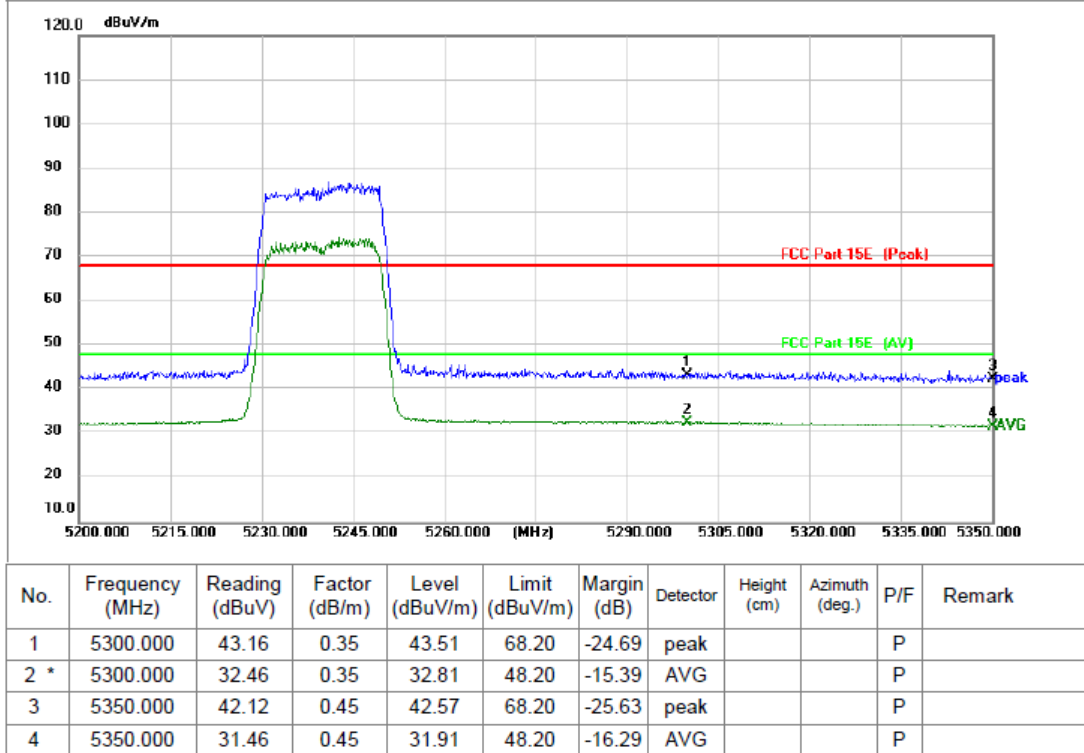
TM4 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: L



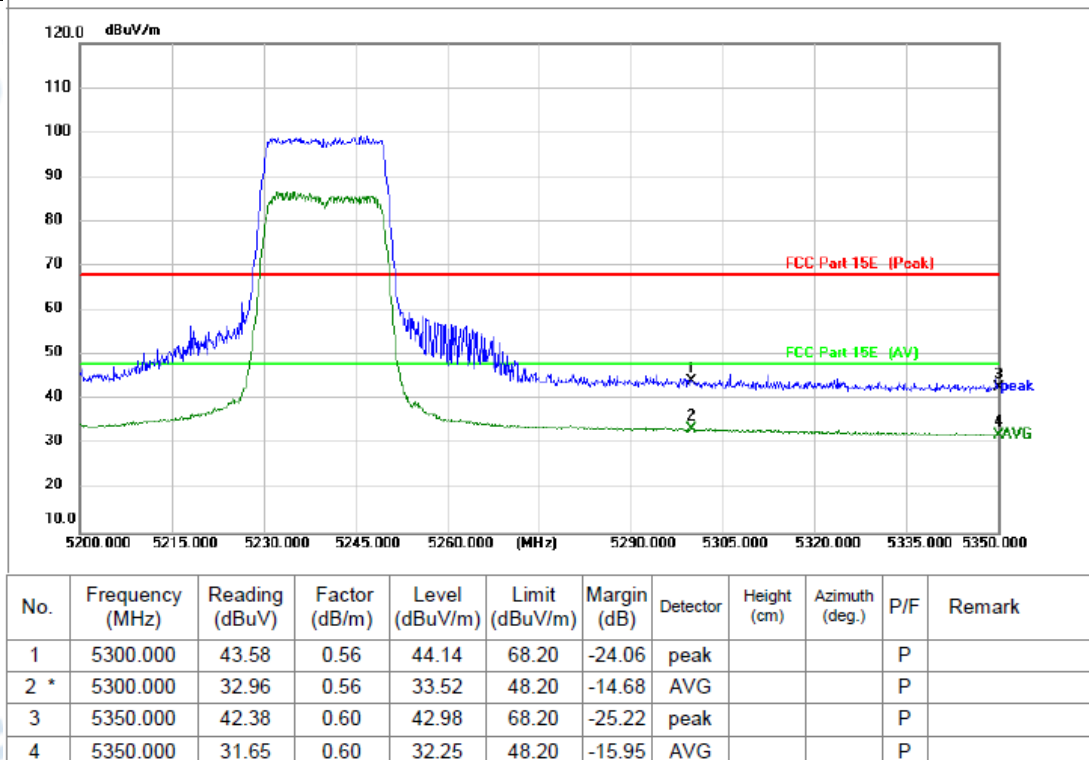
TM4 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: L



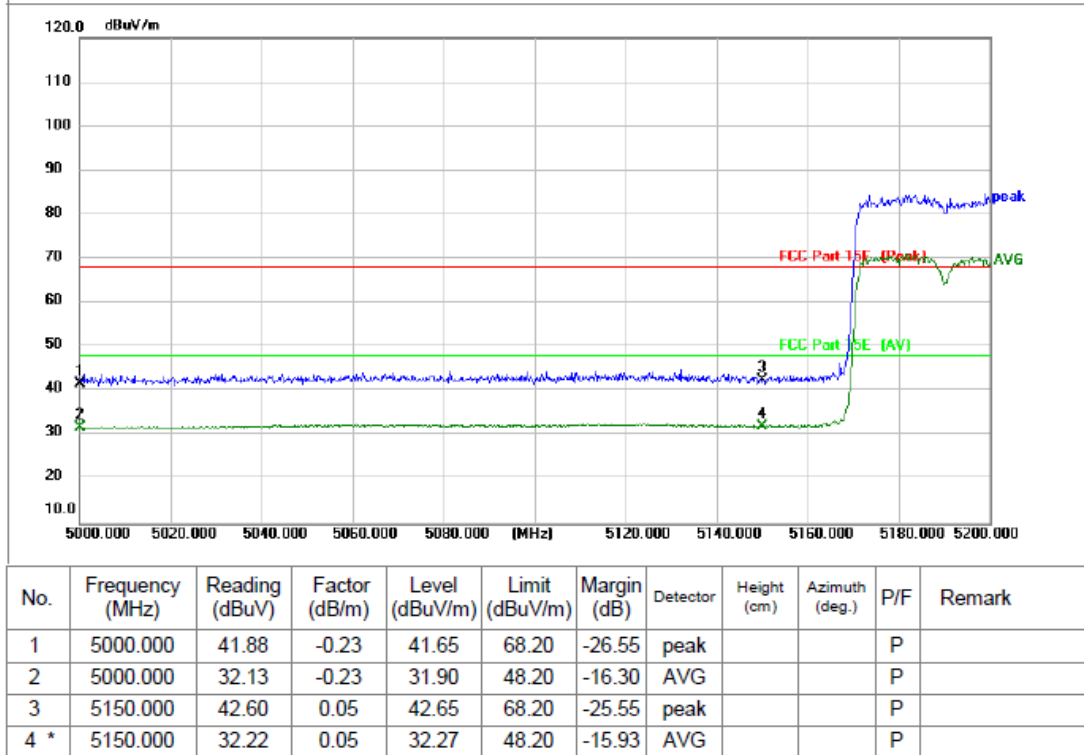
TM4 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: H



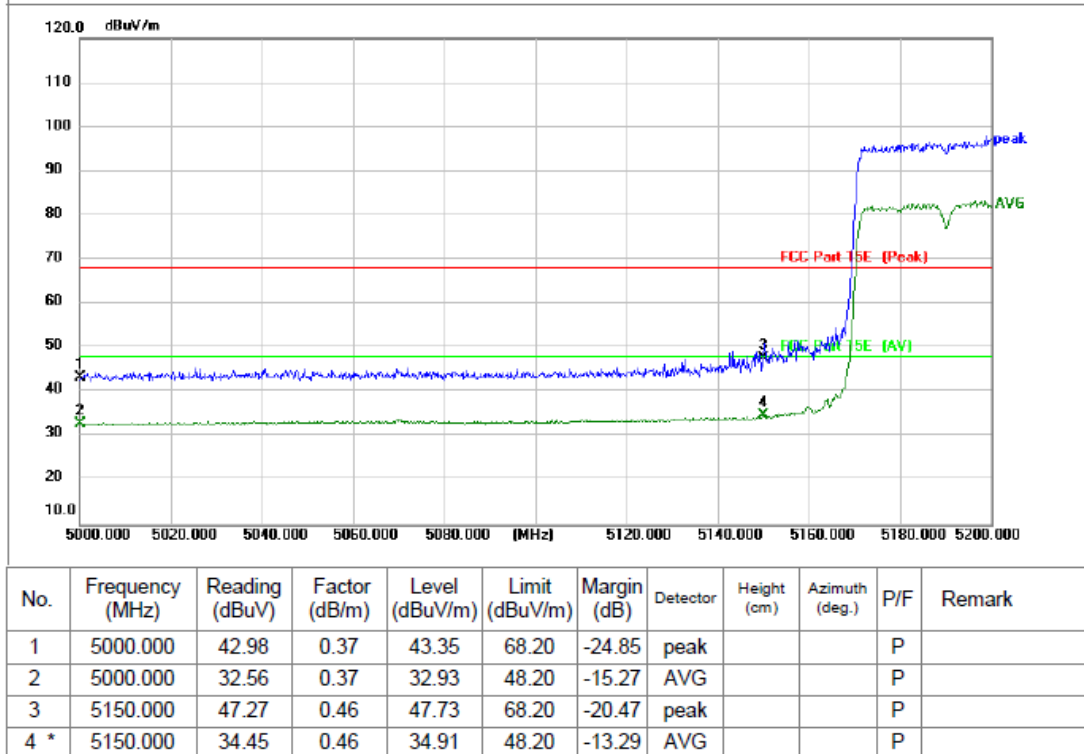
TM4 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: H



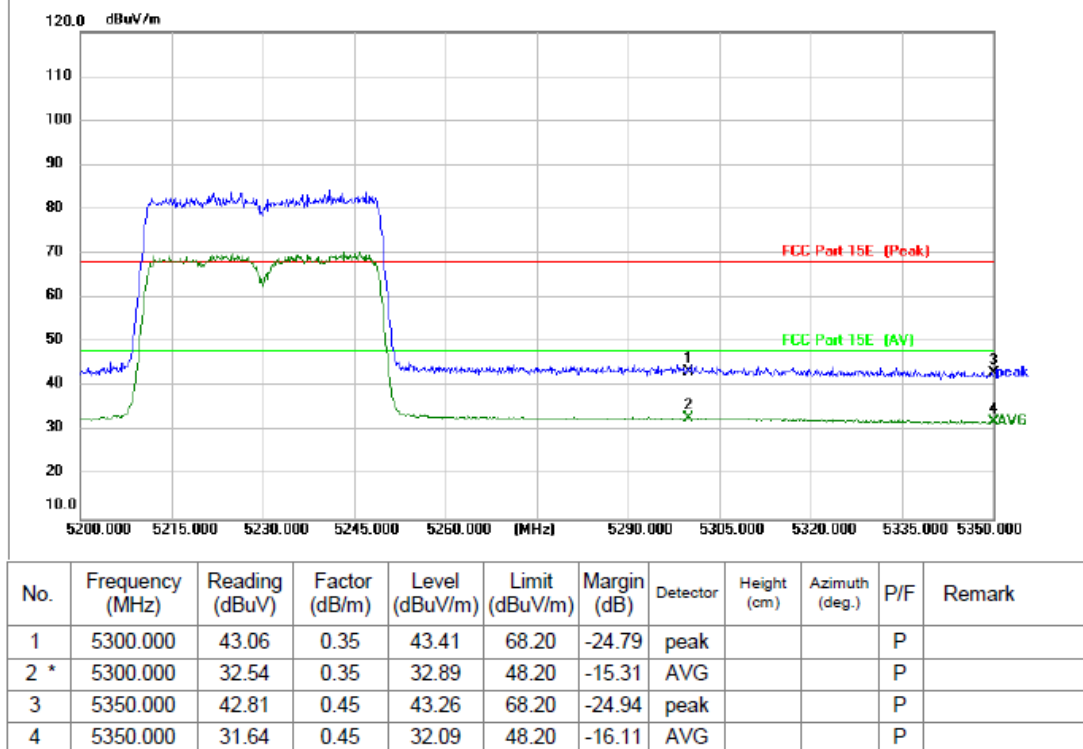
TM4 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 40 / CH: L



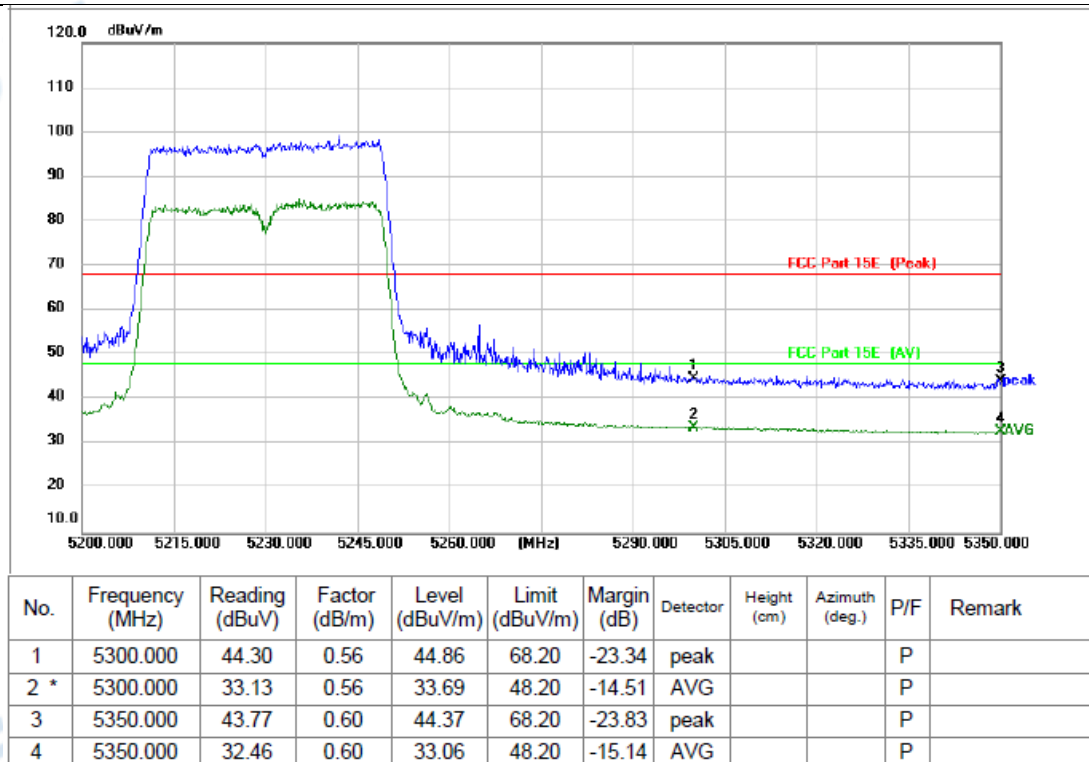
TM4 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 40 / CH: L



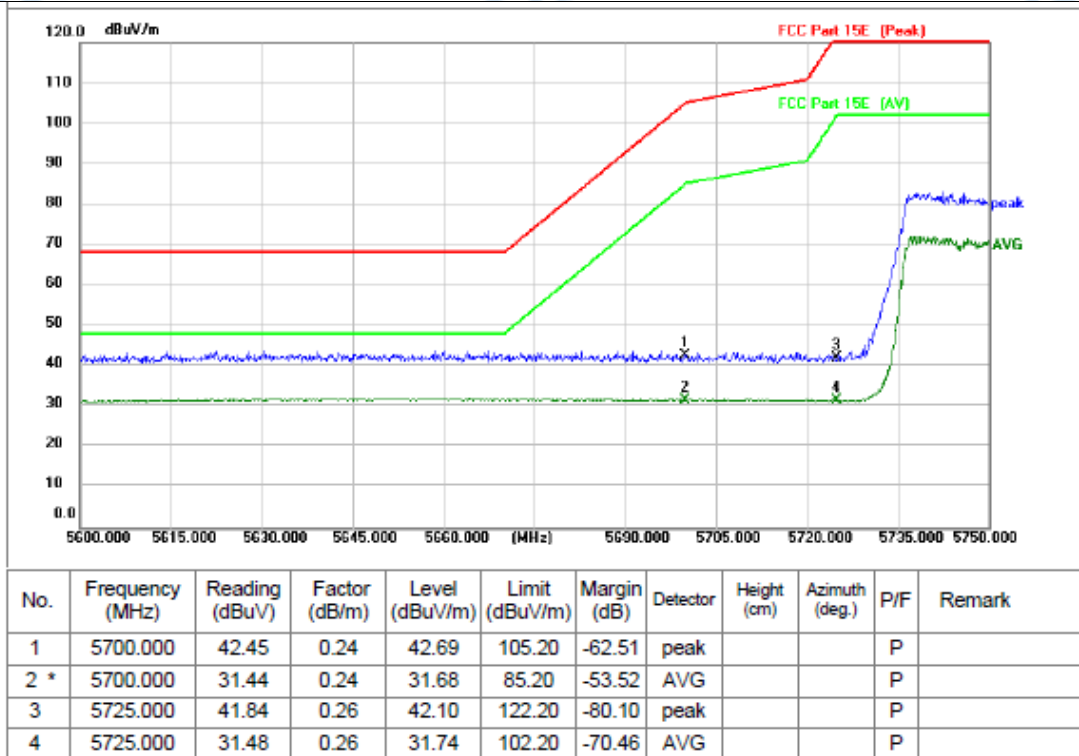
TM4 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 40 / CH: H



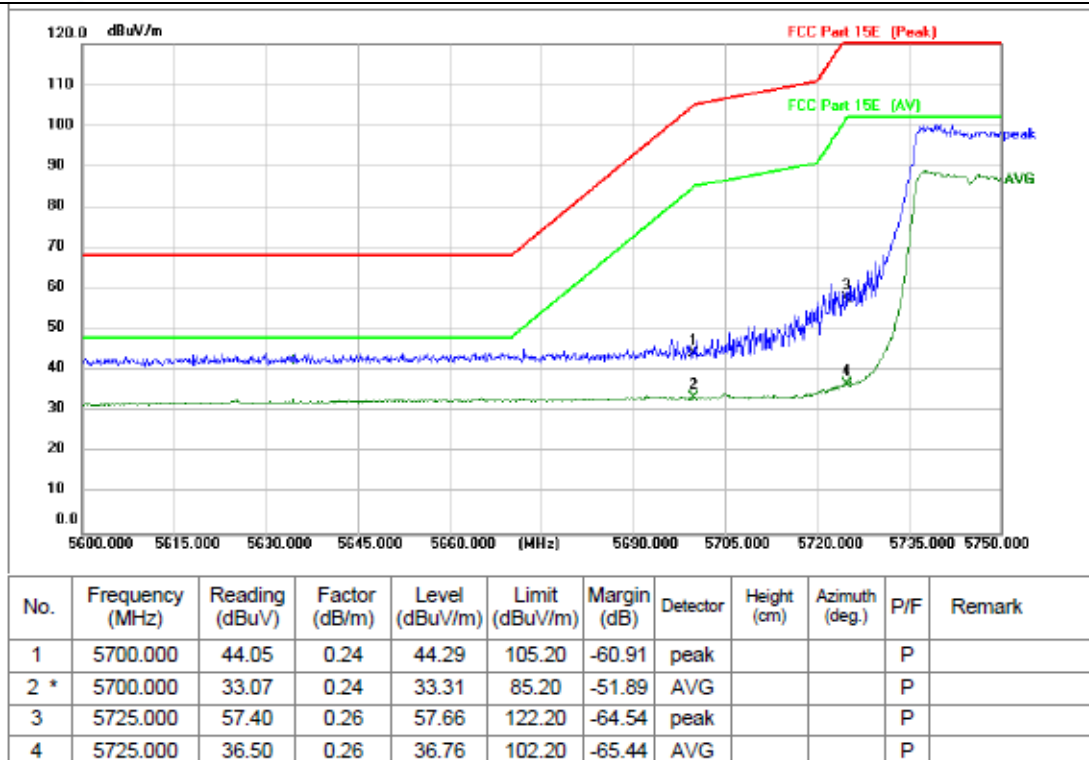
TM4 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 40 / CH: H



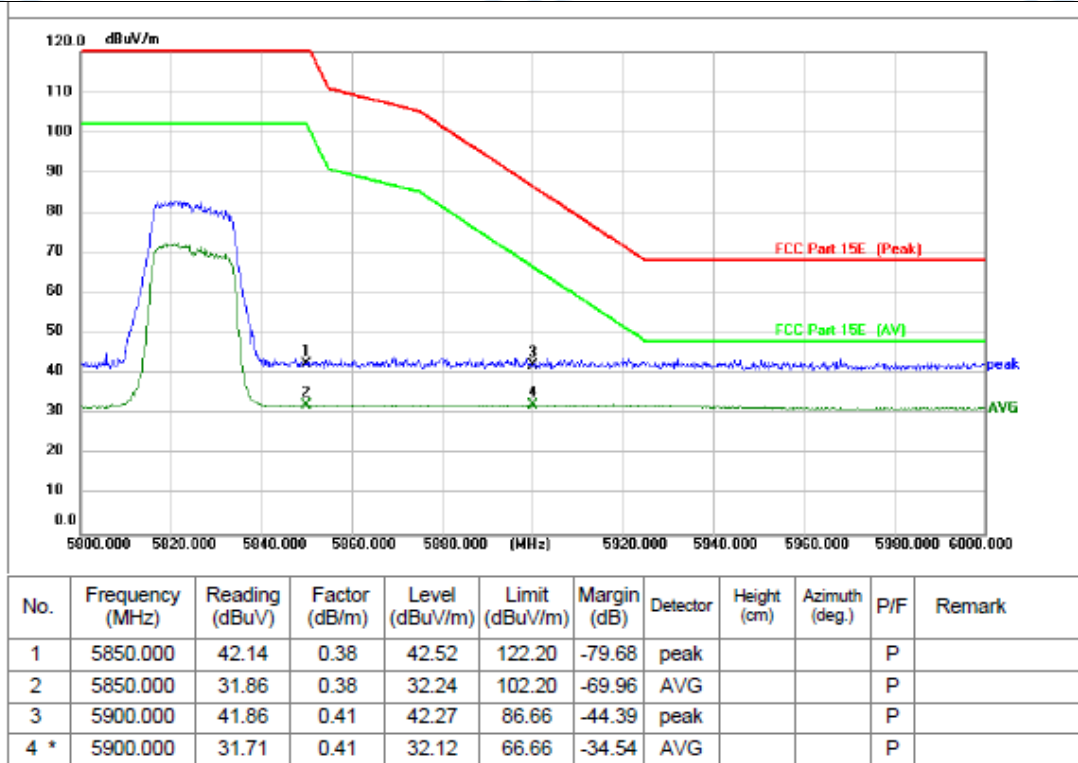
TM4 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: L



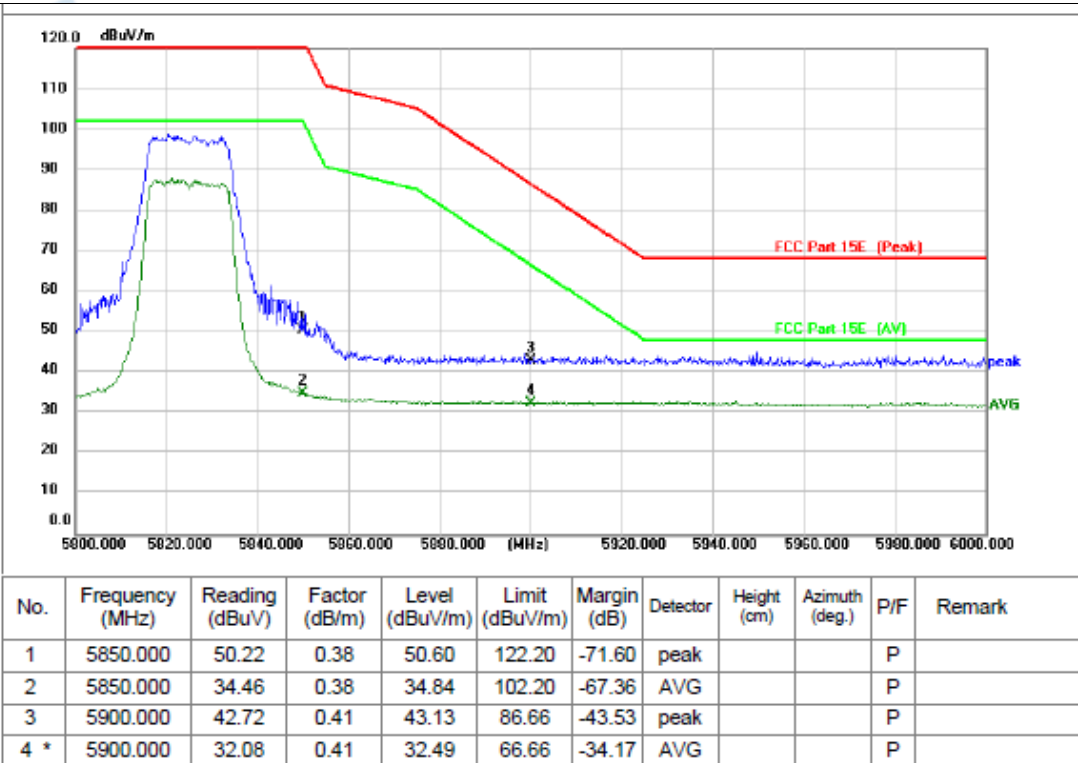
TM4 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: L



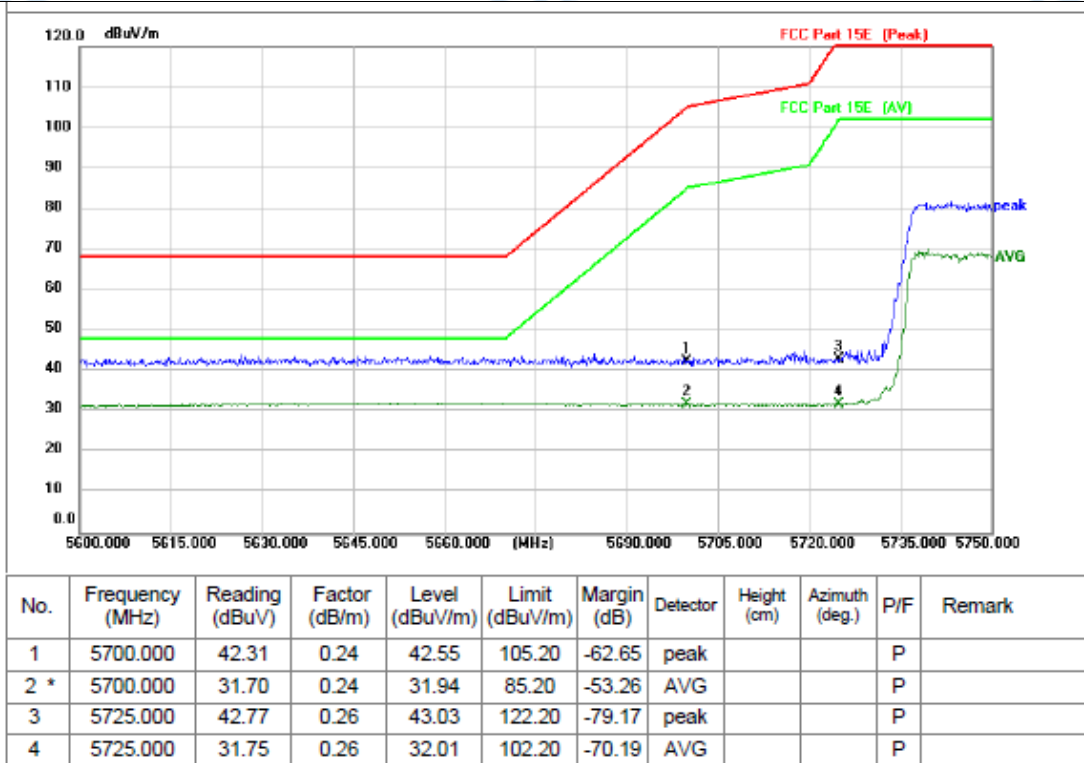
TM4 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: H



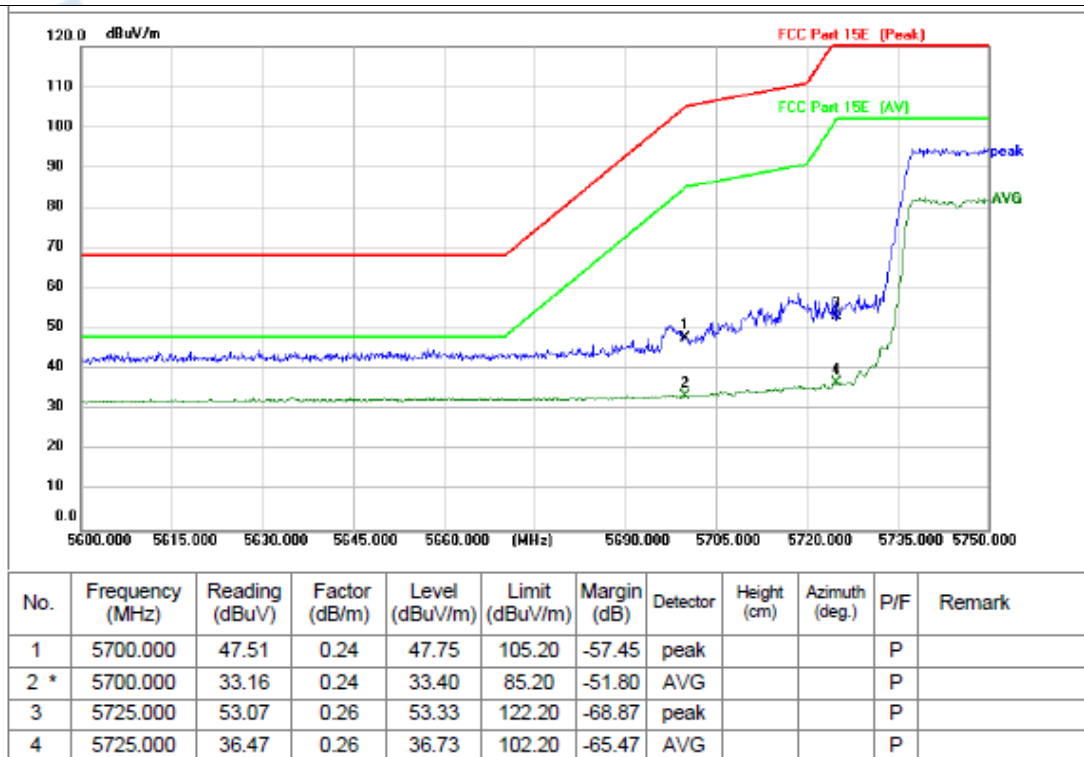
TM4 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: H



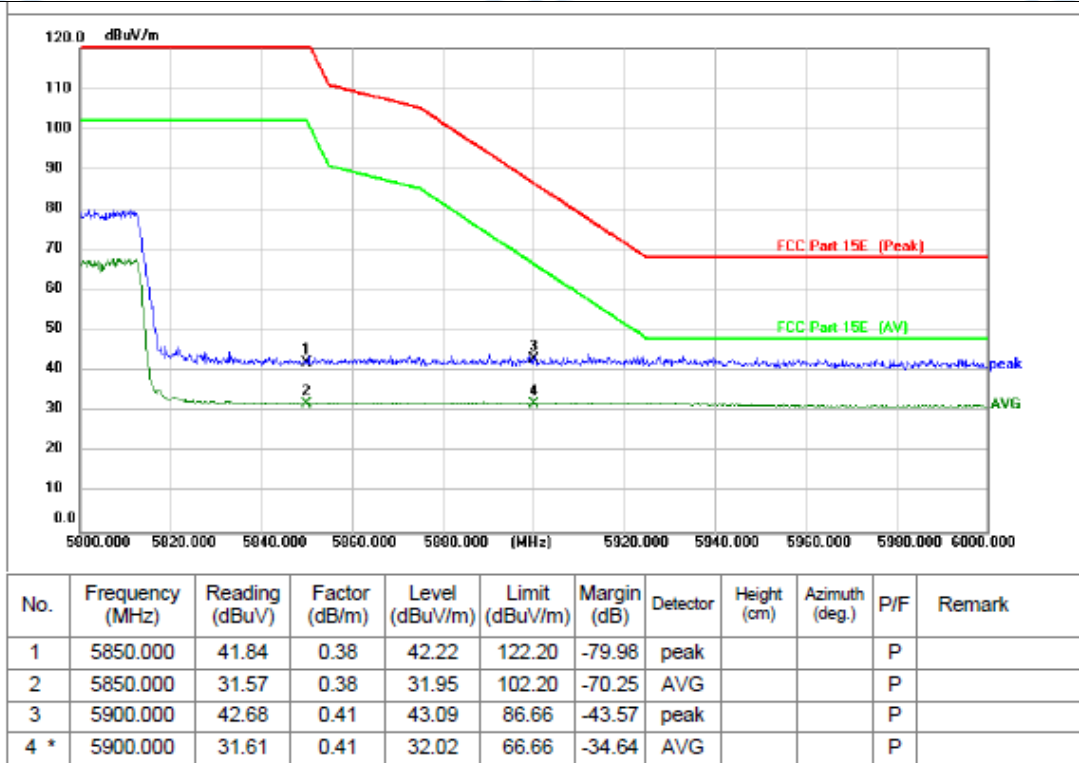
TM4 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 40 / CH: L



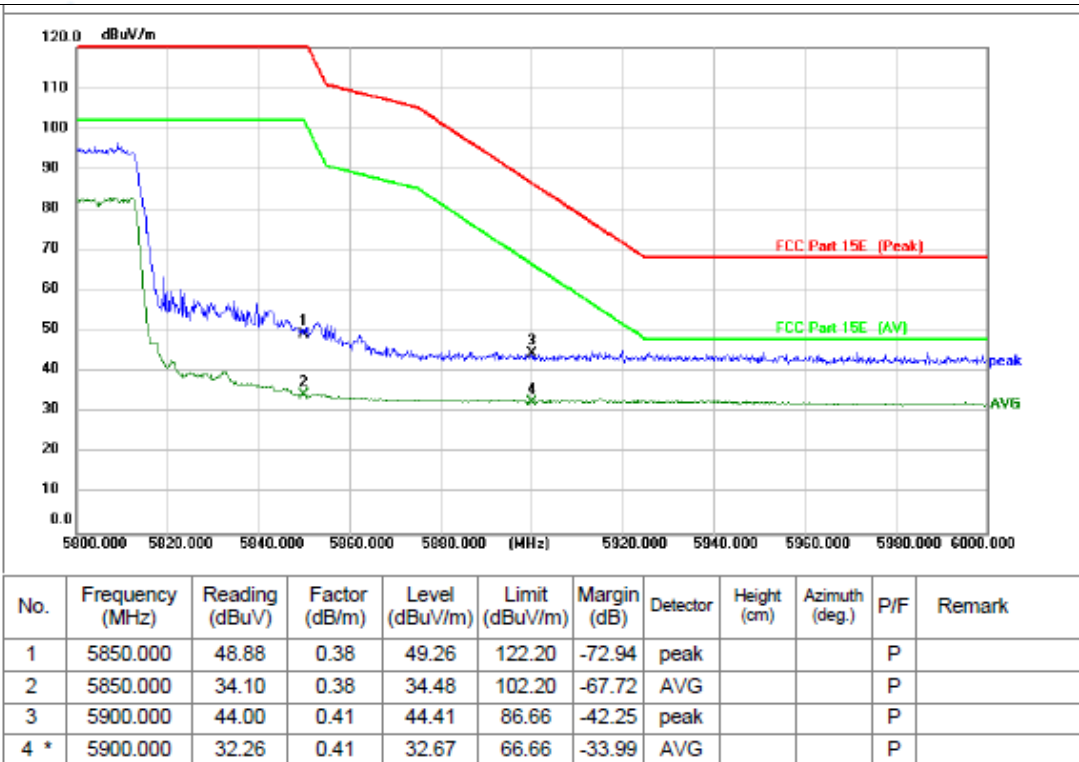
M4 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 40 / CH: L



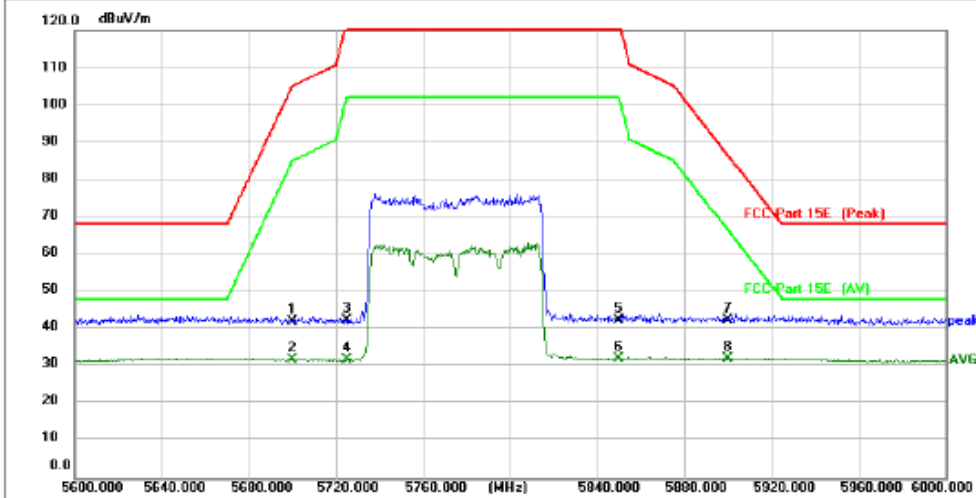
TM4 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 40 / CH: H



TM4 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 40 / CH: H

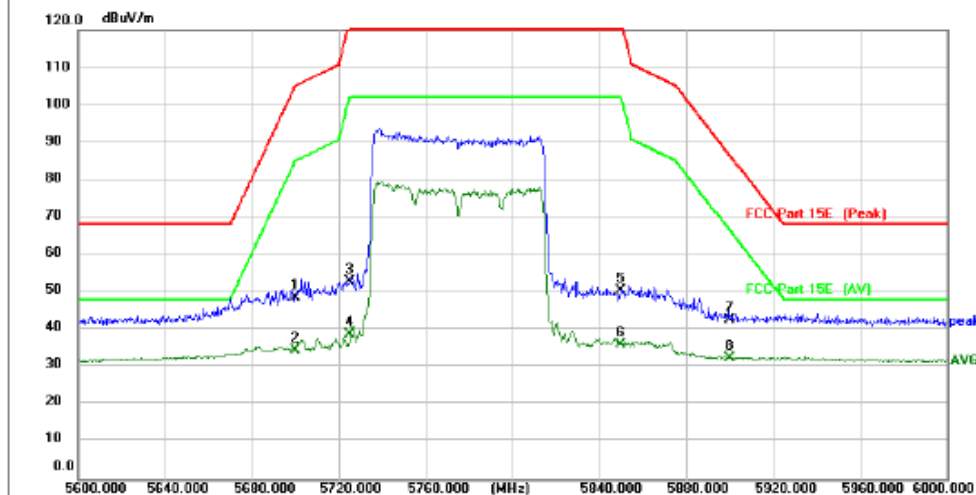


TM4 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 80 / CH: M



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5700.000	41.94	0.24	42.18	105.20	-63.02	peak			P	
2	5700.000	31.66	0.24	31.90	85.20	-53.30	AVG			P	
3	5725.000	42.31	0.26	42.57	122.20	-79.63	peak			P	
4	5725.000	31.61	0.26	31.87	102.20	-70.33	AVG			P	
5	5850.000	42.15	0.38	42.53	122.20	-79.67	peak			P	
6	5850.000	31.72	0.38	32.10	102.20	-70.10	AVG			P	
7	5900.000	41.98	0.41	42.39	86.66	-44.27	peak			P	
8 *	5900.000	31.81	0.41	32.22	66.66	-34.44	AVG			P	

TM4 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 80 / CH: M



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5700.000	48.41	0.24	48.65	105.20	-56.55	peak			P	
2	5700.000	34.54	0.24	34.78	85.20	-50.42	AVG			P	
3	5725.000	52.84	0.26	53.10	122.20	-69.10	peak			P	
4	5725.000	38.44	0.26	38.70	102.20	-63.50	AVG			P	
5	5850.000	50.11	0.38	50.49	122.20	-71.71	peak			P	
6	5850.000	35.80	0.38	36.18	102.20	-66.02	AVG			P	
7	5900.000	42.32	0.41	42.73	86.66	-43.93	peak			P	
8 *	5900.000	32.27	0.41	32.68	66.66	-33.98	AVG			P	

4.6 Undesirable emission limits (below 1GHz)

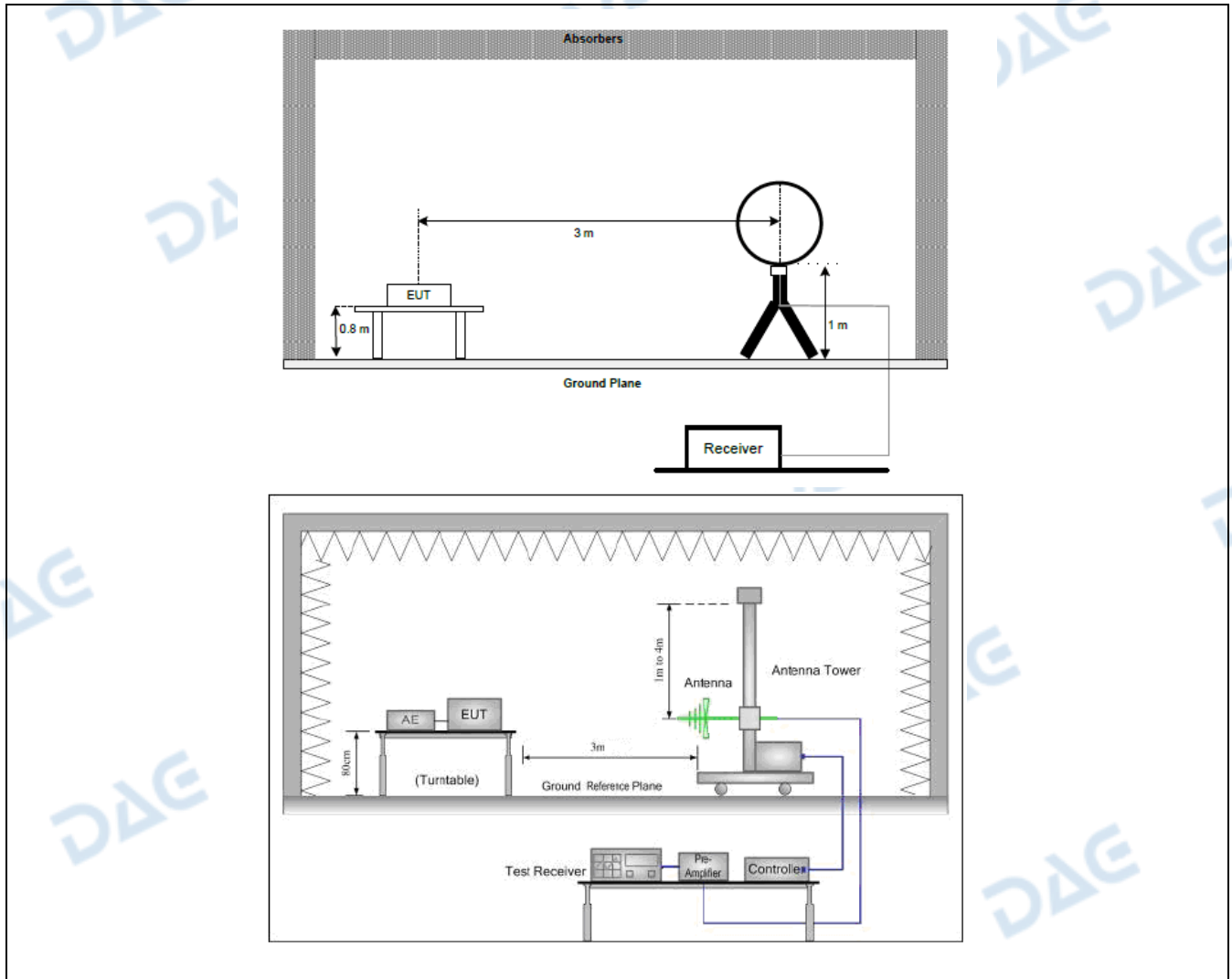
Test Requirement:	47 CFR Part 15.407(b)(9)																								
Test Limit:	Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209. Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table: <table><tr><td>Frequency (MHz)</td><td>Field strength (microvolts/meter)</td><td>Measurement distance (meters)</td></tr><tr><td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr><tr><td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr><tr><td>1.705-30.0</td><td>30</td><td>30</td></tr><tr><td>30-88</td><td>100 **</td><td>3</td></tr><tr><td>88-216</td><td>150 **</td><td>3</td></tr><tr><td>216-960</td><td>200 **</td><td>3</td></tr><tr><td>Above 960</td><td>500</td><td>3</td></tr></table> ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.	Frequency (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
Frequency (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																							
Test Method:	ANSI C63.10-2013, section 12.7.4, 12.7.5																								
Procedure:	Below 1GHz: a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. 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. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) 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 quasi-peak method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel, the middle channel, the Highest channel. h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. i. Repeat above procedures until all frequencies measured was complete. Remark: 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor																								

	2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points 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. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. Above 1GHz: a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-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 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) 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 or average method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel, the middle channel, the Highest channel. h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. i. Repeat above procedures until all frequencies measured was complete. Remark: 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report. 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
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4.6.1 E.U.T. Operation:

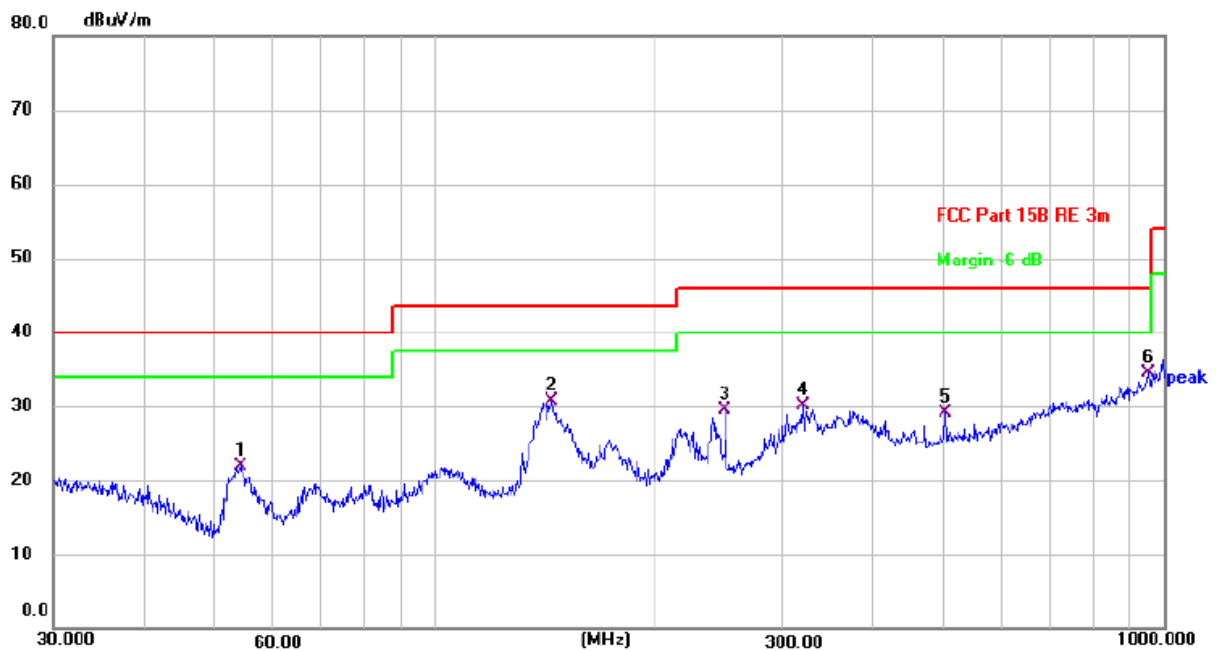
Operating Environment:					
Temperature:	23.1 °C	Humidity:	55.1 %	Atmospheric Pressure:	102 kPa
Pretest mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM2				

4.6.2 Test Setup Diagram:



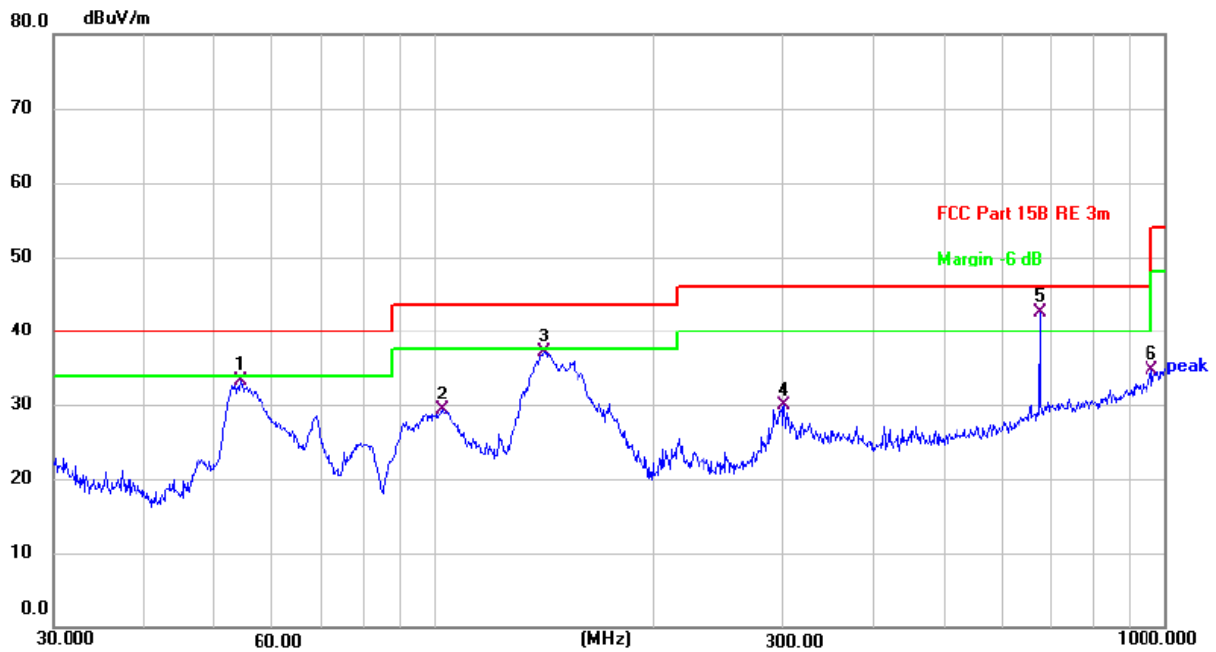
4.6.3 Test Data:

TM2 / Polarization: Horizontal / Band: 5240 MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	54.0711	31.42	-9.51	21.91	40.00	-18.09	QP	100		P	
2	144.8418	34.71	-3.93	30.78	43.50	-12.72	QP	100		P	
3	250.3012	31.70	-2.10	29.60	46.00	-16.40	QP	100		P	
4	319.9370	28.93	1.12	30.05	46.00	-15.95	QP	100		P	
5	501.1790	27.17	1.91	29.08	46.00	-16.92	QP	100		P	
6 *	952.0937	25.25	9.17	34.42	46.00	-11.58	QP	100		P	

TM2 / Polarization: Vertical / Horizontal / Band: 5240 MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	54.0711	42.85	-9.51	33.34	40.00	-6.66	QP	100		P	
2	102.3597	34.77	-5.46	29.31	43.50	-14.19	QP	100		P	
3	141.3298	41.26	-4.07	37.19	43.50	-6.31	QP	100		P	
4	301.4224	29.96	-0.08	29.88	46.00	-16.12	QP	100		P	
5 *	675.2080	38.14	4.40	42.54	46.00	-3.46	QP	100		P	
6	958.7943	25.32	9.30	34.62	46.00	-11.38	QP	100		P	

4.7 Undesirable emission limits (above 1GHz)

Test Requirement:	47 CFR Part 15.407(b)(1) 47 CFR Part 15.407(b)(2) 47 CFR Part 15.407(b)(3) 47 CFR Part 15.407(b)(4) 47 CFR Part 15.407(b)(10)																																																																											
Test Limit:	For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. For transmitters operating solely in the 5.725-5.850 GHz band: 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. <table><tr><th>MHz</th><th>MHz</th><th>MHz</th><th>GHz</th></tr><tr><td>0.090-0.110</td><td>16.42-16.423</td><td>399.9-410</td><td>4.5-5.15</td></tr><tr><td>¹0.495-0.505</td><td>16.69475-16.69525</td><td>608-614</td><td>5.35-5.46</td></tr><tr><td>2.1735-2.1905</td><td>16.80425-16.80475</td><td>960-1240</td><td>7.25-7.75</td></tr><tr><td>4.125-4.128</td><td>25.5-25.67</td><td>1300-1427</td><td>8.025-8.5</td></tr><tr><td>4.17725-4.17775</td><td>37.5-38.25</td><td>1435-1626.5</td><td>9.0-9.2</td></tr><tr><td>4.20725-4.20775</td><td>73-74.6</td><td>1645.5-1646.5</td><td>9.3-9.5</td></tr><tr><td>6.215-6.218</td><td>74.8-75.2</td><td>1660-1710</td><td>10.6-12.7</td></tr><tr><td>6.26775-6.26825</td><td>108-121.94</td><td>1718.8-1722.2</td><td>13.25-13.4</td></tr><tr><td>6.31175-6.31225</td><td>123-138</td><td>2200-2300</td><td>14.47-14.5</td></tr><tr><td>8.291-8.294</td><td>149.9-150.05</td><td>2310-2390</td><td>15.35-16.2</td></tr><tr><td>8.362-8.366</td><td>156.52475-156.52525</td><td>2483.5-2500</td><td>17.7-21.4</td></tr><tr><td>8.37625-8.38675</td><td>156.7-156.9</td><td>2690-2900</td><td>22.01-23.12</td></tr><tr><td>8.41425-8.41475</td><td>162.0125-167.17</td><td>3260-3267</td><td>23.6-24.0</td></tr><tr><td>12.29-12.293</td><td>167.72-173.2</td><td>3332-3339</td><td>31.2-31.8</td></tr><tr><td>12.51975-12.52025</td><td>240-285</td><td>3345.8-3358</td><td>36.43-36.5</td></tr><tr><td>12.57675-12.57725</td><td>322-335.4</td><td>3600-4400</td><td>(²)</td></tr><tr><td>13.36-13.41</td><td></td><td></td><td></td></tr></table> ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. ²Above 38.6 The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in § 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in § 15.209 shall be demonstrated using				MHz	MHz	MHz	GHz	0.090-0.110	16.42-16.423	399.9-410	4.5-5.15	¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46	2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75	4.125-4.128	25.5-25.67	1300-1427	8.025-8.5	4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2	4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5	6.215-6.218	74.8-75.2	1660-1710	10.6-12.7	6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4	6.31175-6.31225	123-138	2200-2300	14.47-14.5	8.291-8.294	149.9-150.05	2310-2390	15.35-16.2	8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4	8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12	8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0	12.29-12.293	167.72-173.2	3332-3339	31.2-31.8	12.51975-12.52025	240-285	3345.8-3358	36.43-36.5	12.57675-12.57725	322-335.4	3600-4400	(²)	13.36-13.41			
MHz	MHz	MHz	GHz																																																																									
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15																																																																									
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46																																																																									
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75																																																																									
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5																																																																									
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2																																																																									
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5																																																																									
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7																																																																									
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4																																																																									
6.31175-6.31225	123-138	2200-2300	14.47-14.5																																																																									
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2																																																																									
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4																																																																									
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12																																																																									
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0																																																																									
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8																																																																									
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5																																																																									
12.57675-12.57725	322-335.4	3600-4400	(²)																																																																									
13.36-13.41																																																																												

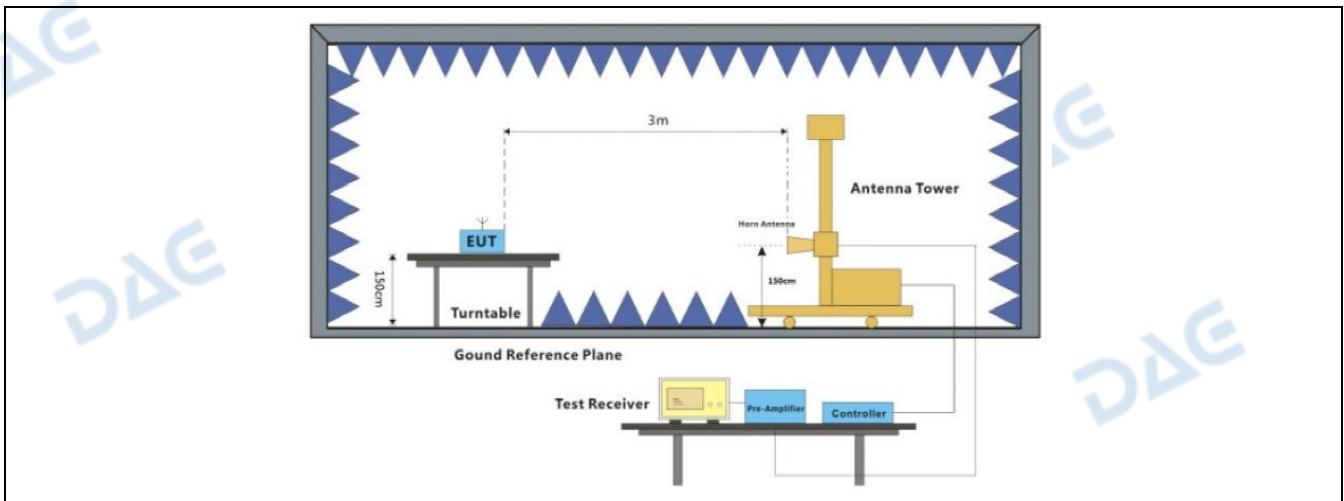
	measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in § 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in § 15.35 apply to these measurements. Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table: <table><tr><th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr><tr><td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr><tr><td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr><tr><td>1.705-30.0</td><td>30</td><td>30</td></tr><tr><td>30-88</td><td>100 **</td><td>3</td></tr><tr><td>88-216</td><td>150 **</td><td>3</td></tr><tr><td>216-960</td><td>200 **</td><td>3</td></tr><tr><td>Above 960</td><td>500</td><td>3</td></tr></table> ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.	Frequency (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
Frequency (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																							
Test Method:	ANSI C63.10-2013, section 12.7.4, 12.7.6, 12.7.7																								
Procedure:	Above 1GHz: a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-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 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) 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 or average method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel, the middle channel, the Highest channel. h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. i. Repeat above procedures until all frequencies measured was complete. Remark: 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The																								

	points marked on above plots are the highest emissions could be found when testing, so only above points 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report. 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
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4.7.1 U.T. Operation:

Operating Environment:					
Temperature:	23.1 °C	Humidity:	55.1 %	Atmospheric Pressure:	102 kPa
Pretest mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4(Only record the worst channel and mode)				

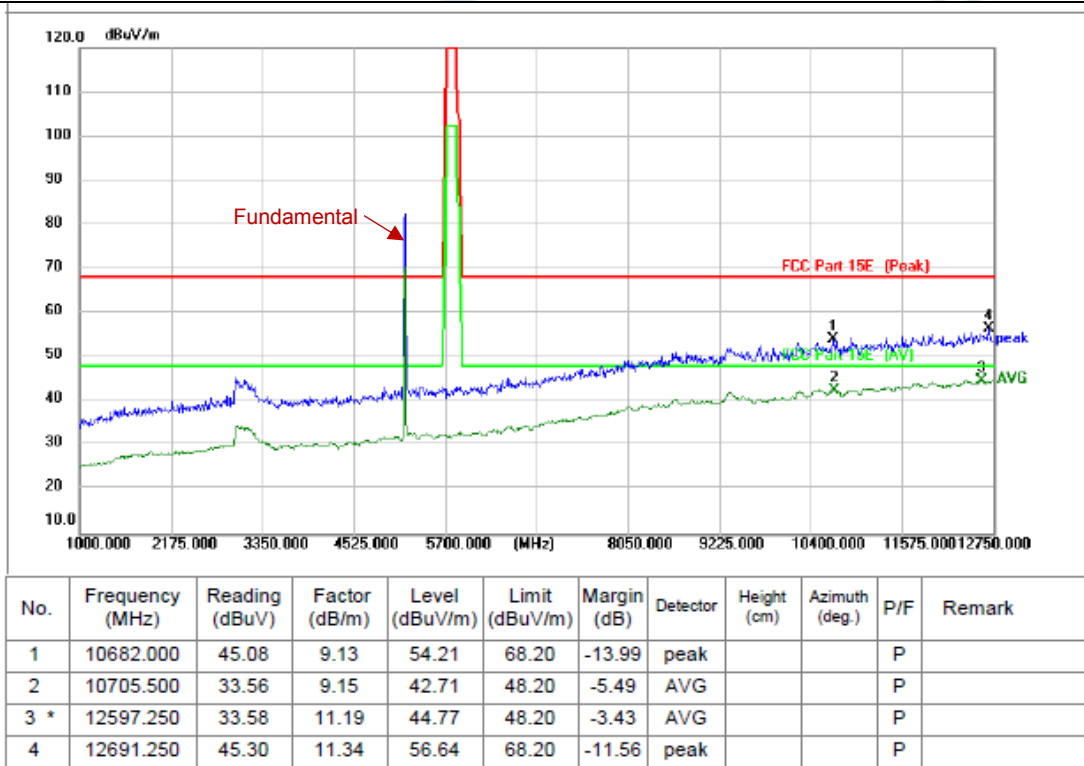
4.7.2 Test Setup Diagram:



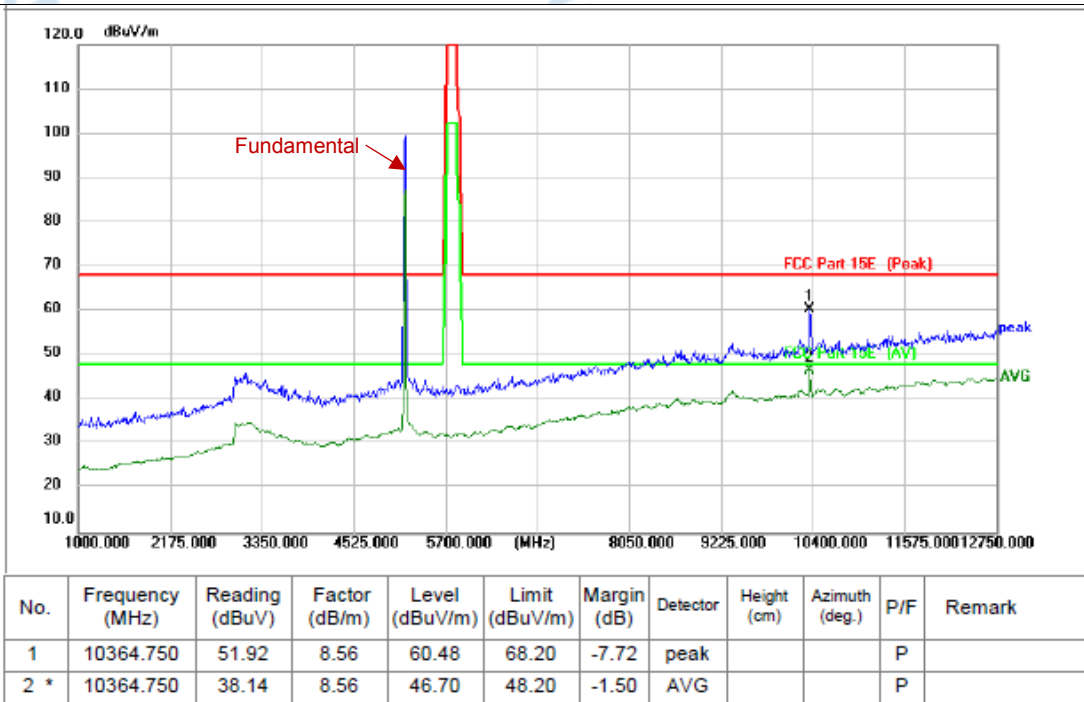
4.7.3 Test Data:

ANT2

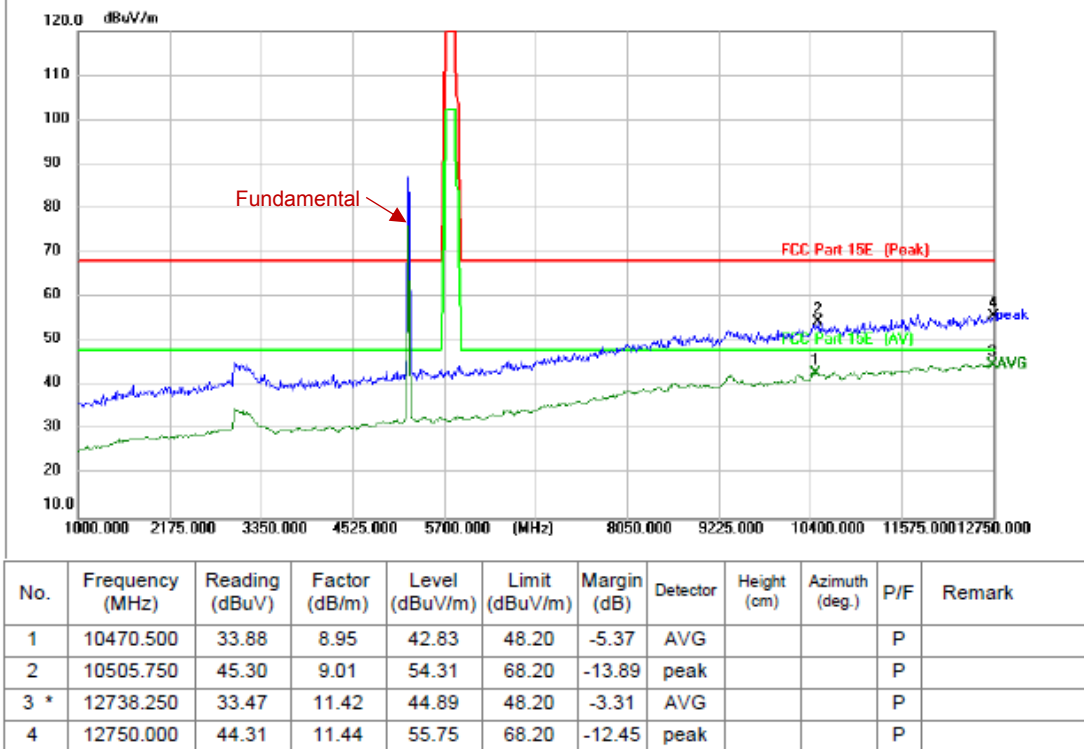
TM2 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: L



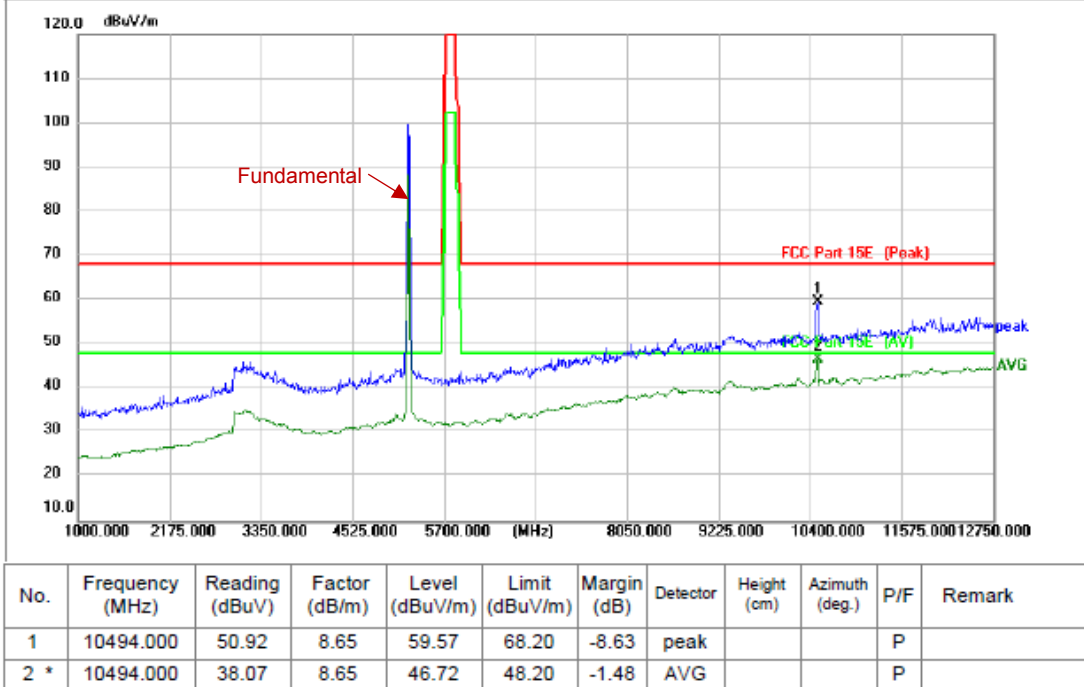
TM2 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: L



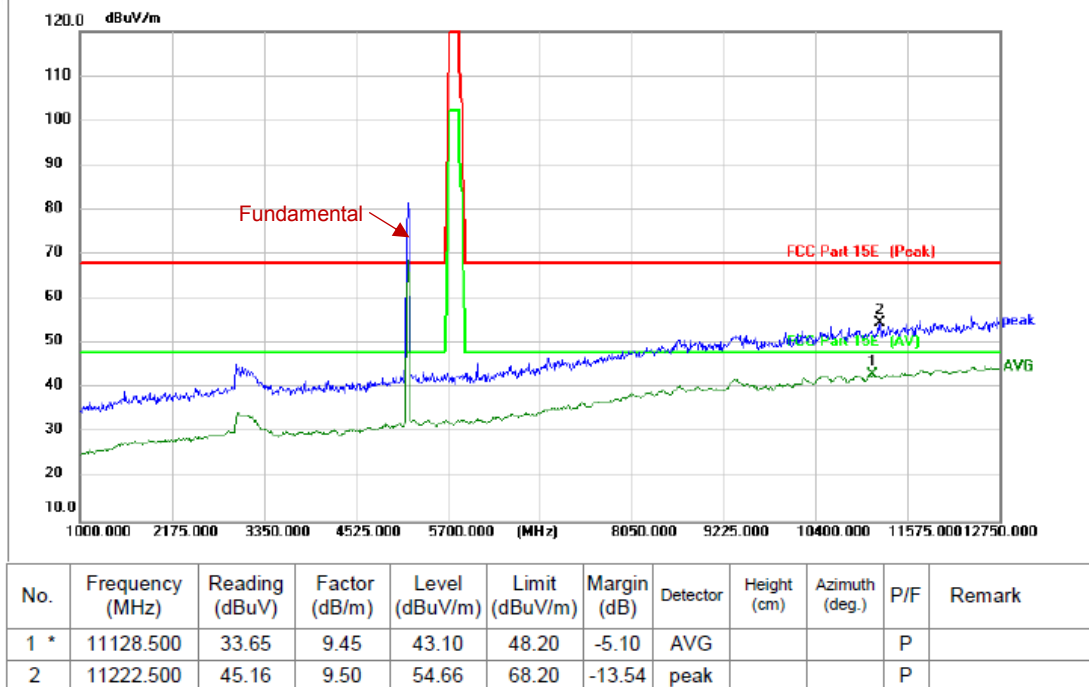
TM2 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: H



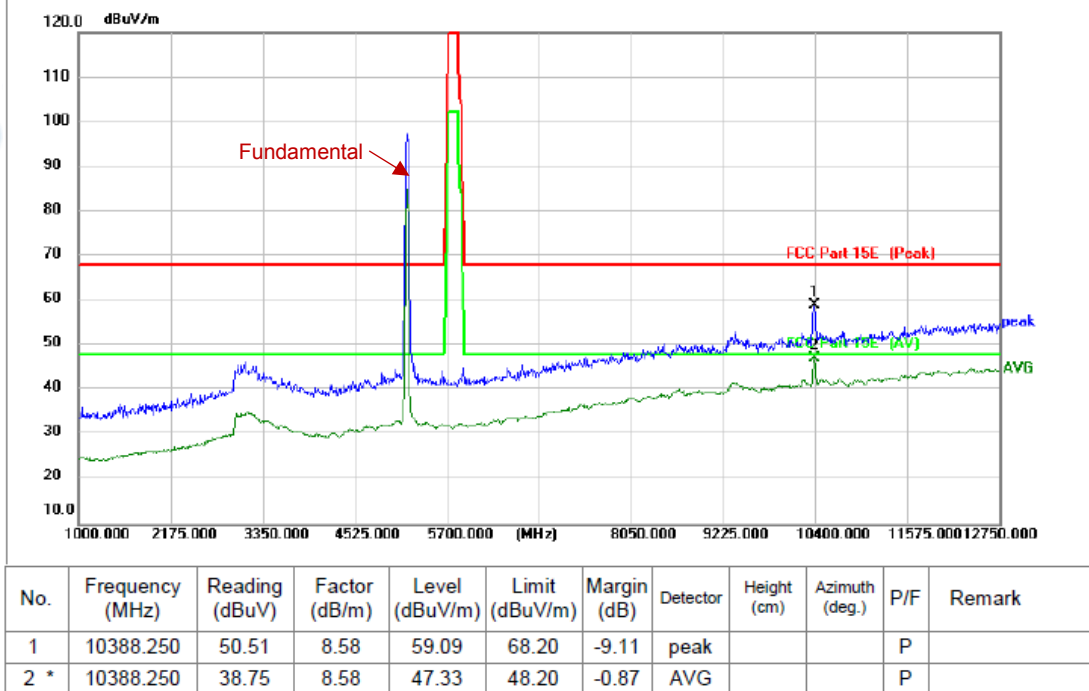
TM2 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: H



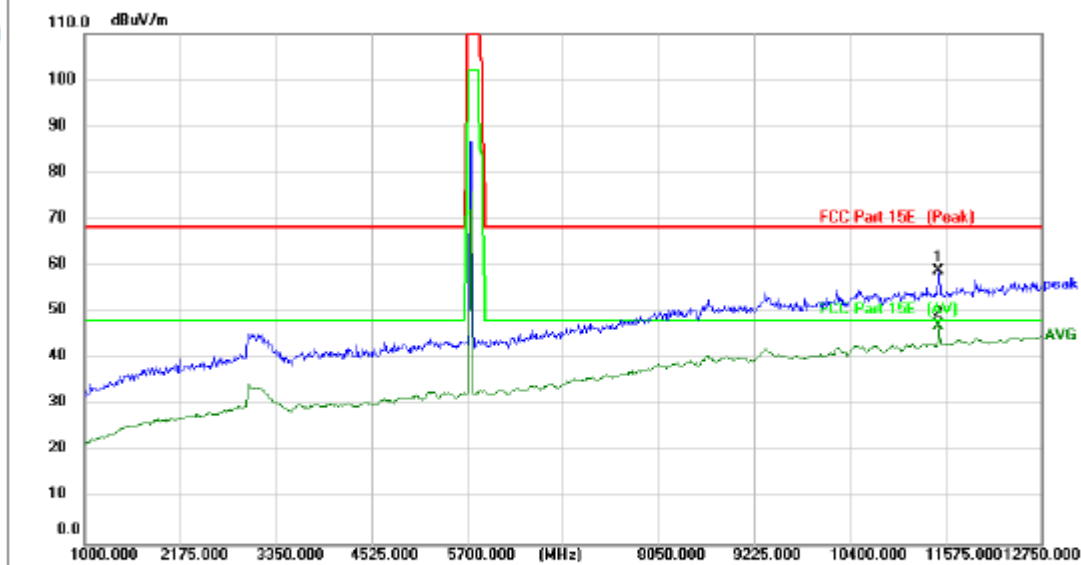
TM2 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 40 / CH: L



TM2 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 40 / CH: L

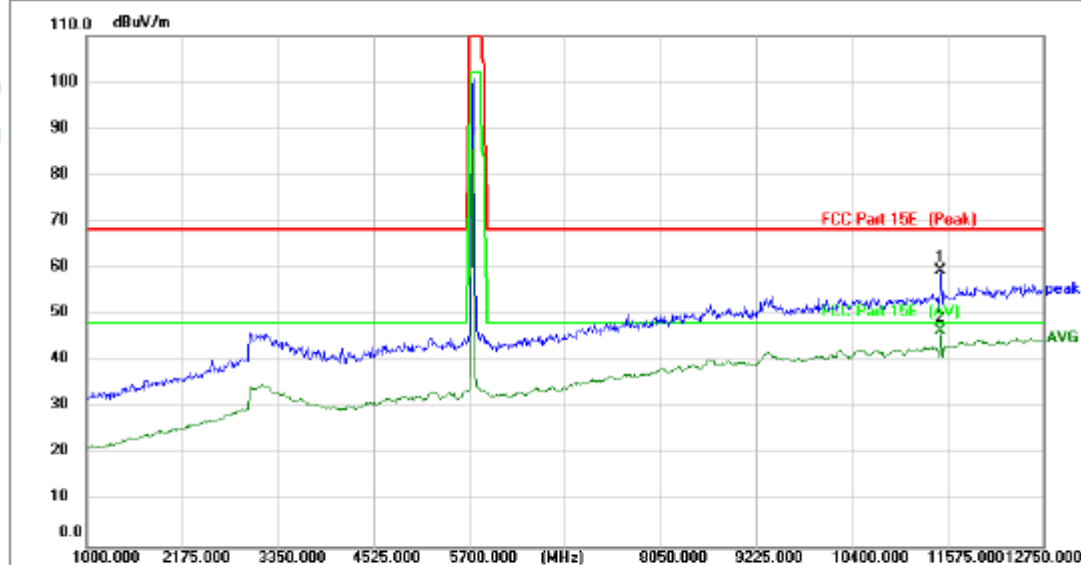


TM2 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: L



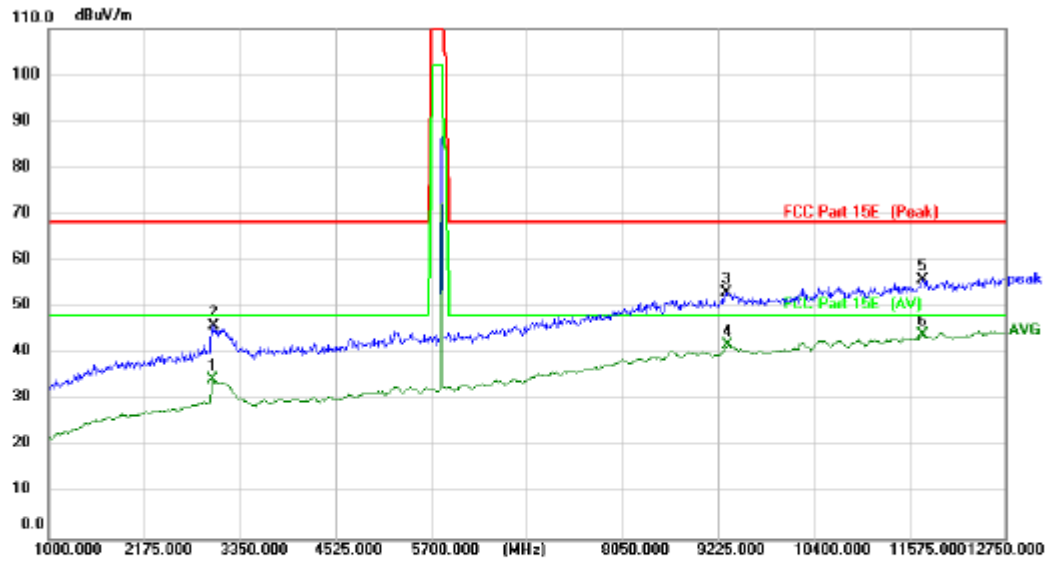
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	11492.750	49.28	9.66	58.94	68.20	-9.26	peak			P	
2 *	11492.750	37.41	9.66	47.07	48.20	-1.13	AVG			P	

TM2 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: L



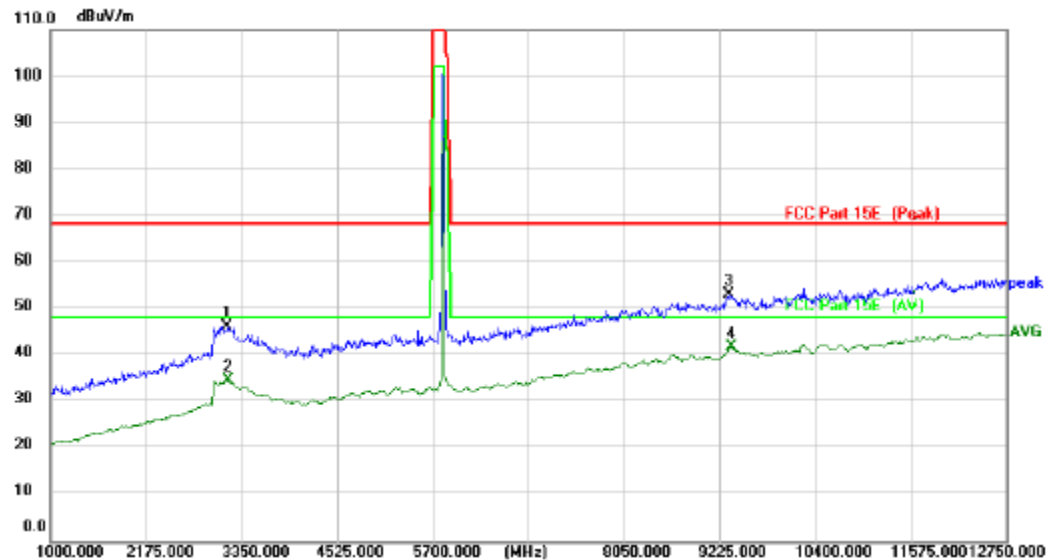
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	11492.750	49.93	9.65	59.58	68.20	-8.62	peak			P	
2 *	11492.750	36.99	9.65	46.64	48.20	-1.56	AVG			P	

TM2 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: H



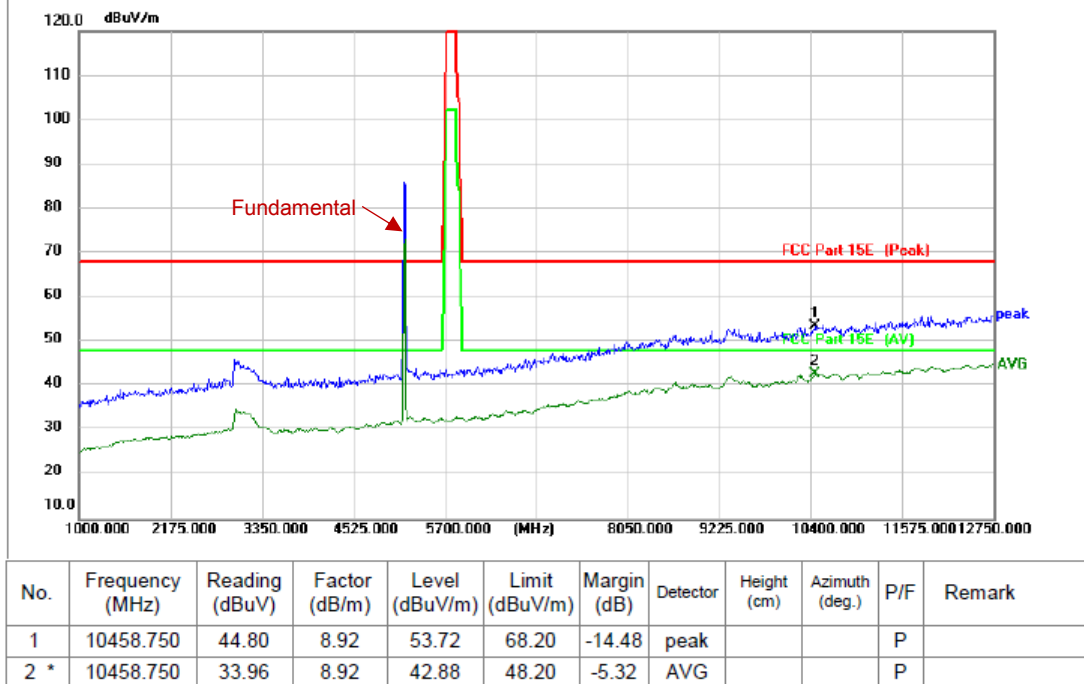
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	3009.250	40.09	-5.58	34.51	48.20	-13.69	AVG			P	
2	3021.000	51.70	-5.54	46.16	68.20	-22.04	peak			P	
3	9319.000	45.25	8.06	53.31	68.20	-14.89	peak			P	
4	9342.500	33.99	8.07	42.06	48.20	-6.14	AVG			P	
5	11739.500	46.23	9.84	56.07	68.20	-12.13	peak			P	
6 *	11739.500	34.19	9.84	44.03	48.20	-4.17	AVG			P	

TM2 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: H

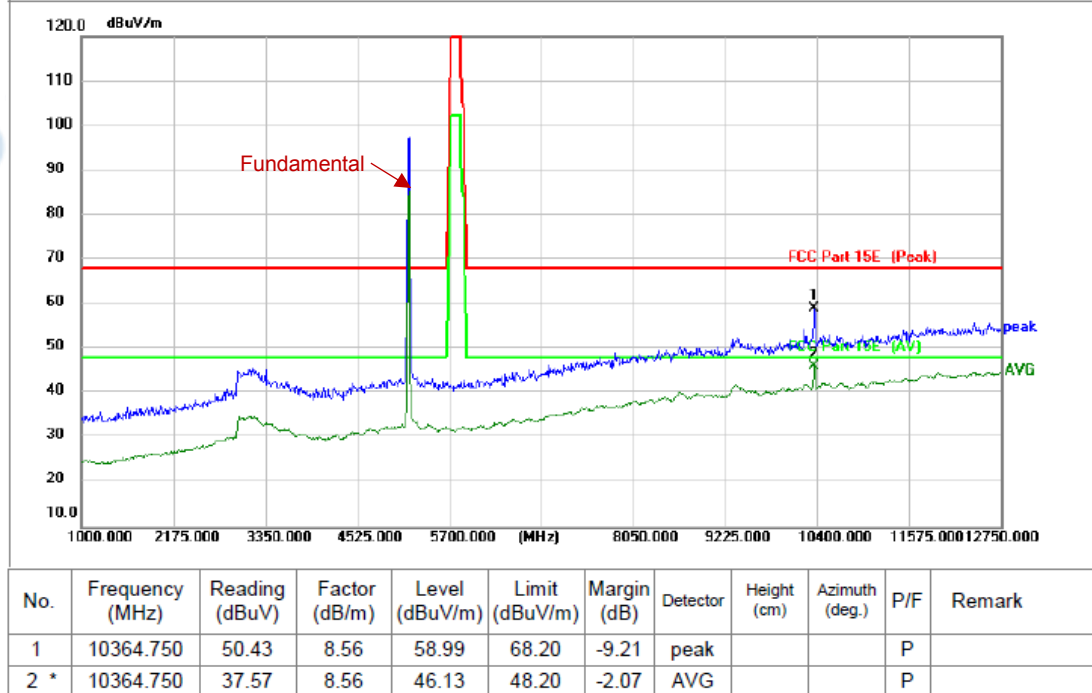


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	3173.750	51.33	-5.06	46.27	68.20	-21.93	peak			P	
2	3185.500	39.80	-5.03	34.77	48.20	-13.43	AVG			P	
3	9342.500	45.33	7.84	53.17	68.20	-15.03	peak			P	
4	9366.000	34.15	7.85	42.00	48.20	-6.20	AVG			P	

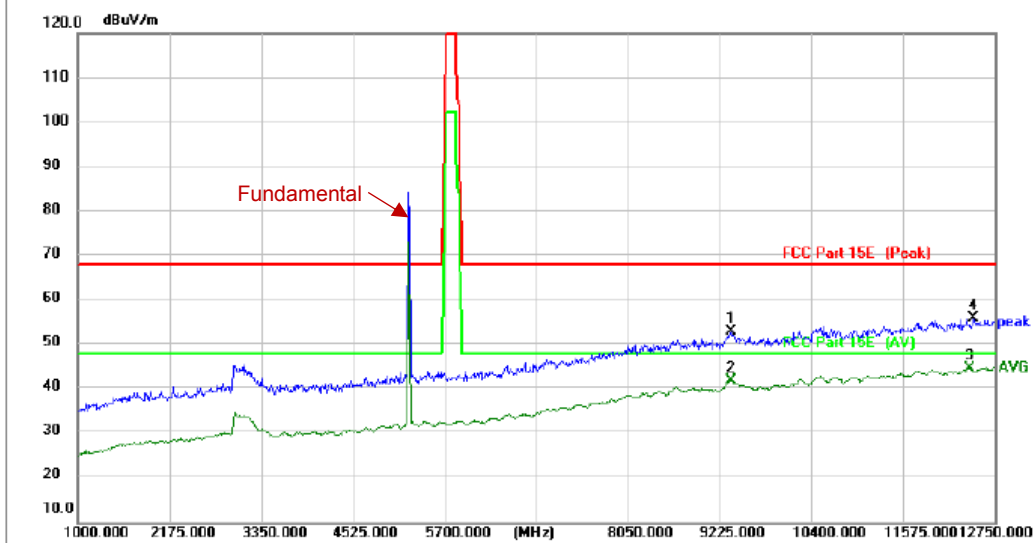
TM3 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: L



TM3 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: L

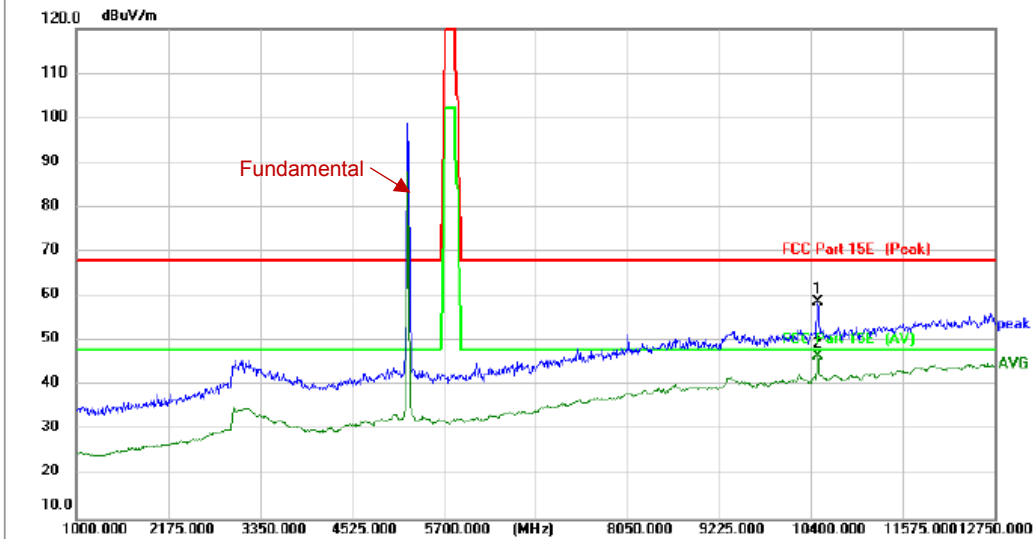


TM3 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: H



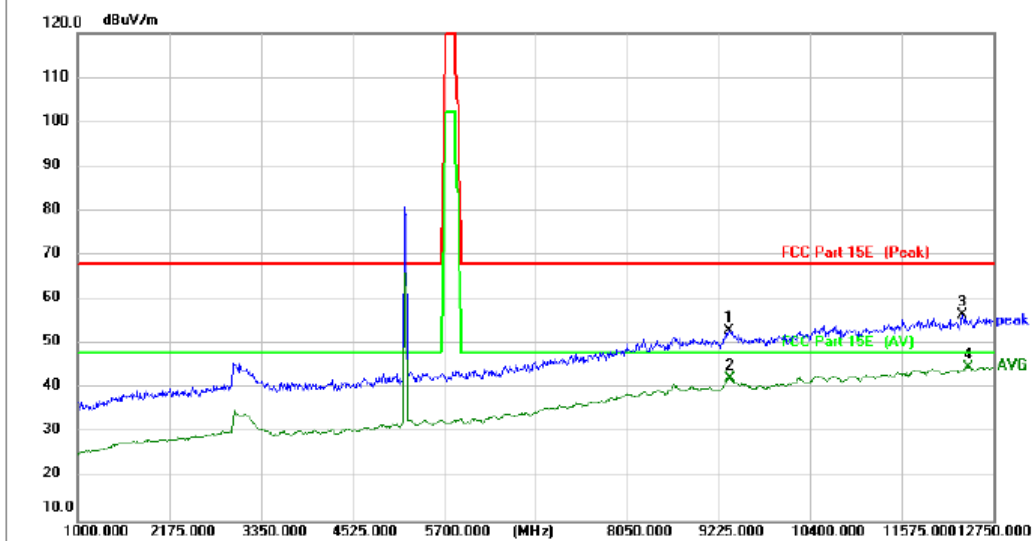
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	9366.000	44.86	8.07	52.93	68.20	-15.27	peak			P	
2	9366.000	34.10	8.07	42.17	48.20	-6.03	AVG			P	
3 *	12421.000	34.02	10.87	44.89	48.20	-3.31	AVG			P	
4	12479.750	45.17	10.98	56.15	68.20	-12.05	peak			P	

TM3 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: H



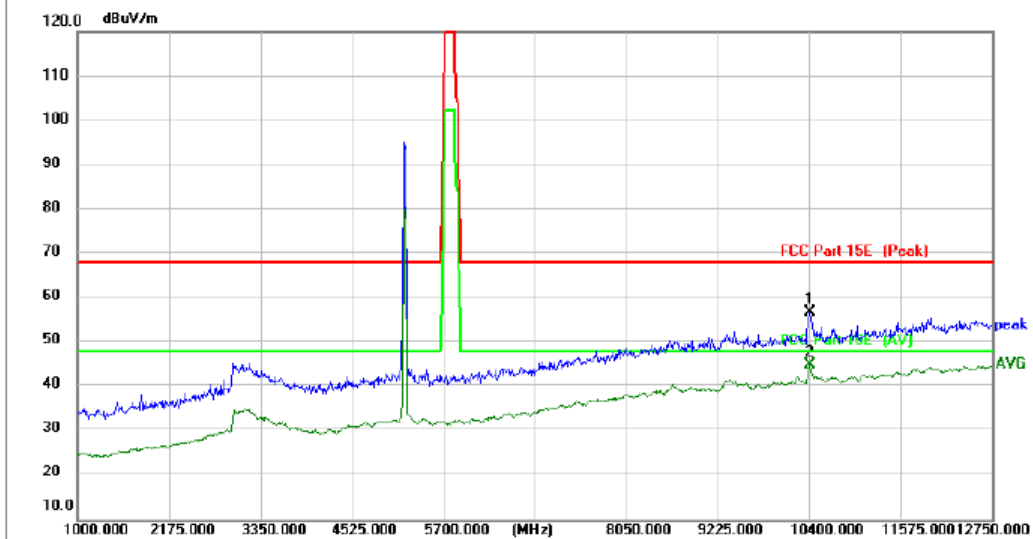
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	10482.250	50.18	8.63	58.81	68.20	-9.39	peak			P	
2 *	10482.250	38.18	8.63	46.81	48.20	-1.39	AVG			P	

TM3 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 40 / CH: L



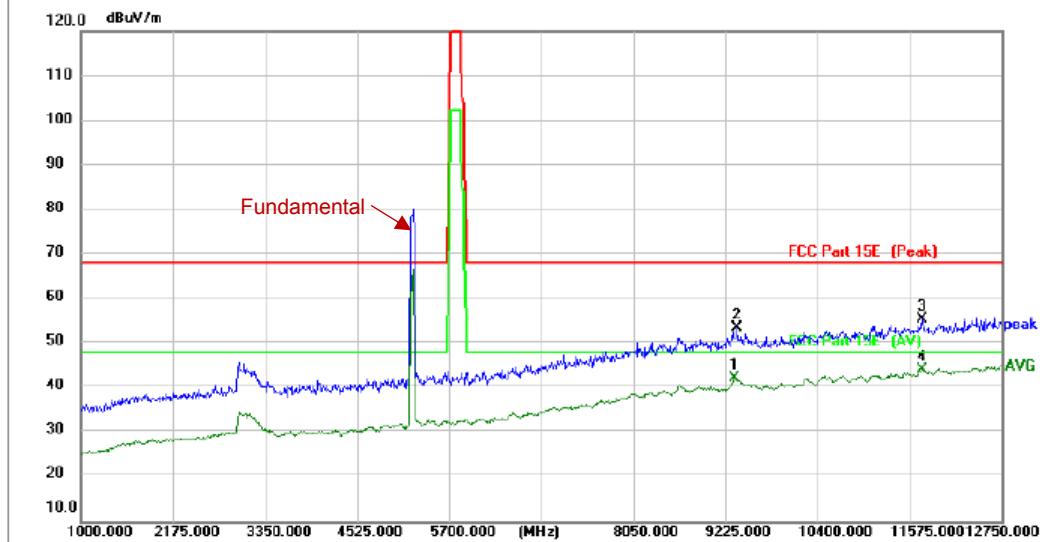
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	9354.250	44.98	8.06	53.04	68.20	-15.16	peak			P	
2	9377.750	34.36	8.07	42.43	48.20	-5.77	AVG			P	
3	12350.500	45.75	10.73	56.48	68.20	-11.72	peak			P	
4 *	12432.750	33.94	10.90	44.84	48.20	-3.36	AVG			P	

TM3 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 40 / CH: L



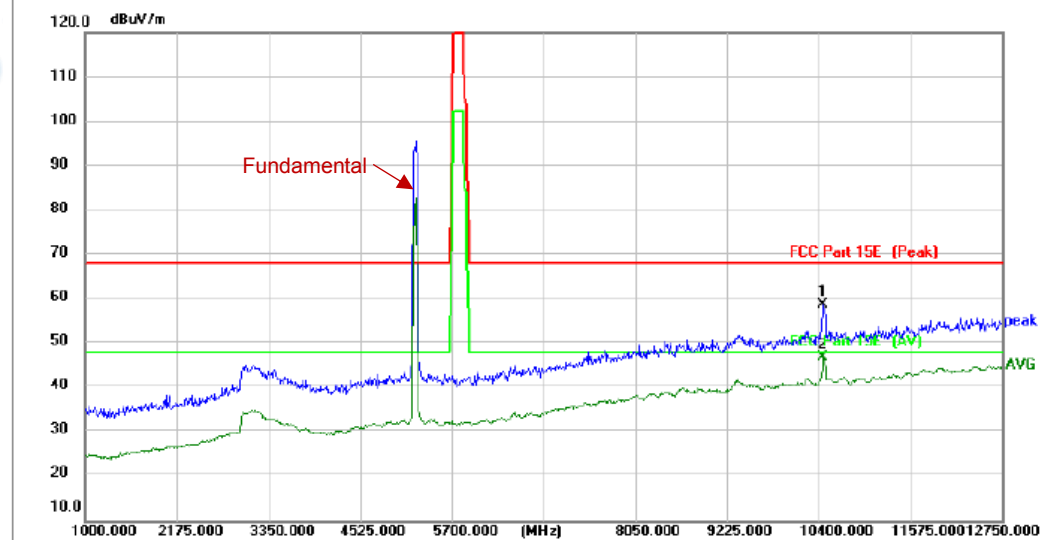
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	10411.750	48.29	8.58	56.87	68.20	-11.33	peak			P	
2 *	10411.750	36.54	8.58	45.12	48.20	-3.08	AVG			P	

TM3 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 40 / CH: H



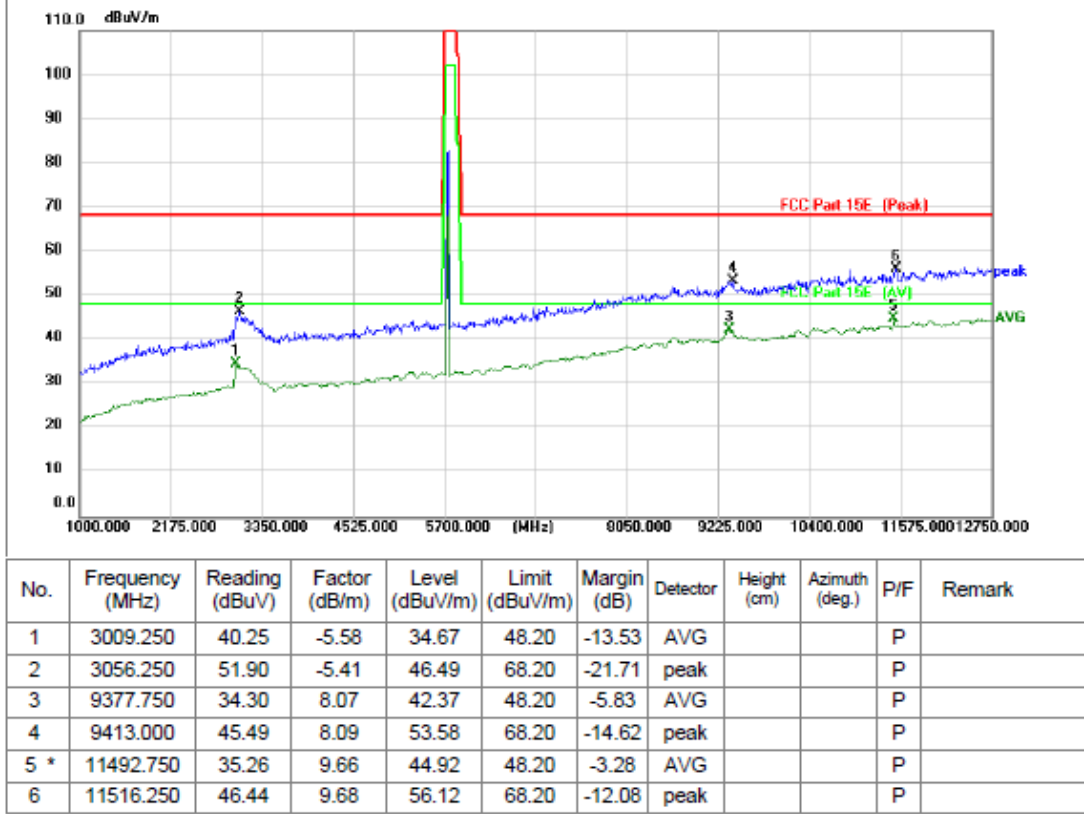
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	9342.500	34.35	8.07	42.42	48.20	-5.78	AVG			P	
2	9377.750	45.44	8.07	53.51	68.20	-14.69	peak			P	
3	11739.500	45.61	9.84	55.45	68.20	-12.75	peak			P	
4 *	11739.500	34.28	9.84	44.12	48.20	-4.08	AVG			P	

TM3 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 40 / CH: H

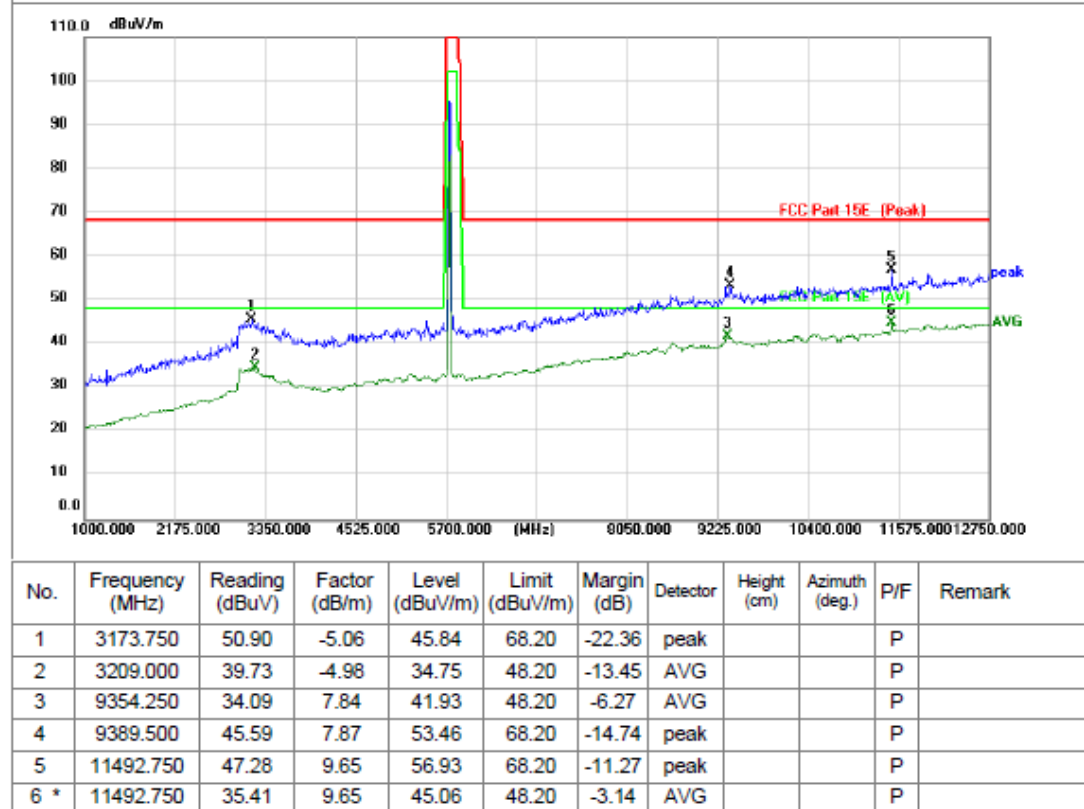


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	10458.750	50.24	8.62	58.86	68.20	-9.34	peak			P	
2 *	10458.750	38.42	8.62	47.04	48.20	-1.16	AVG			P	

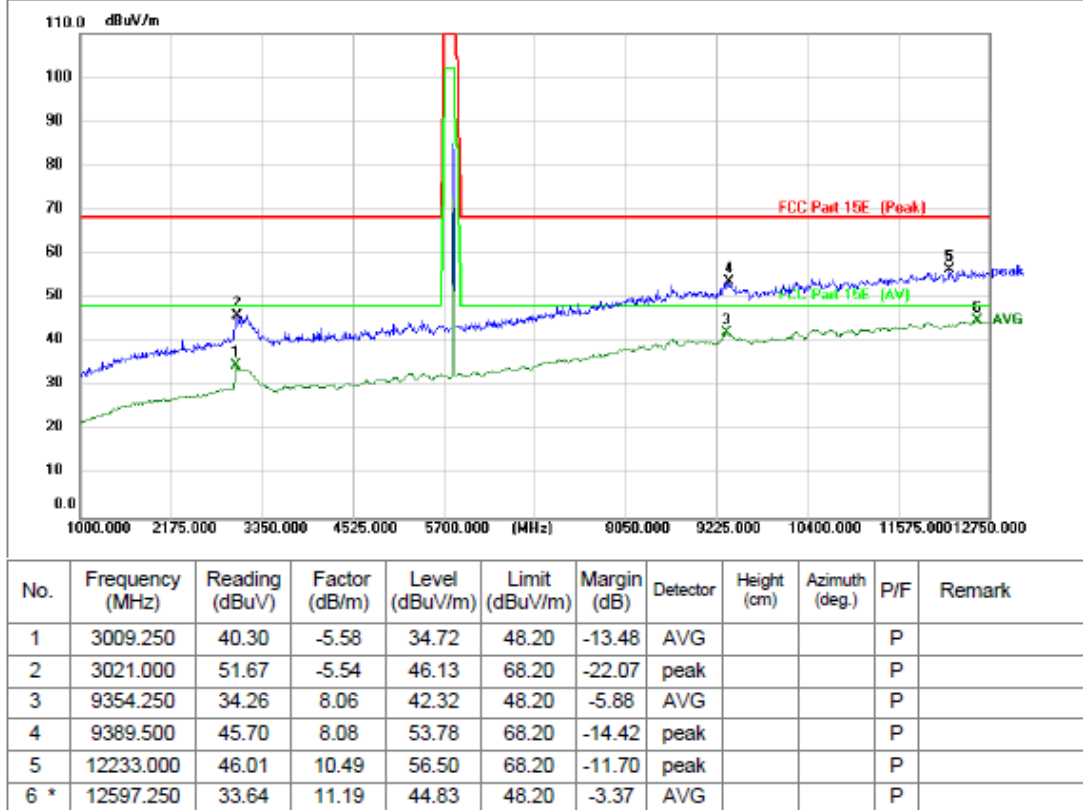
TM3 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: L



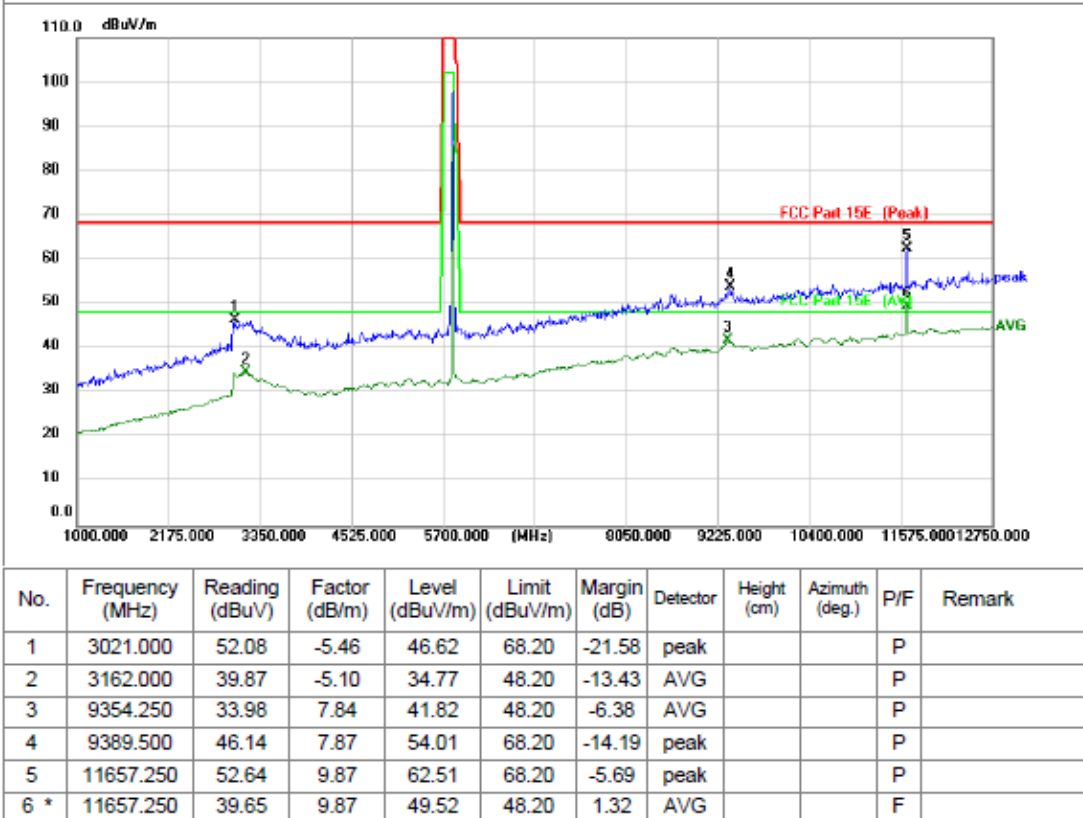
TM3 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: L



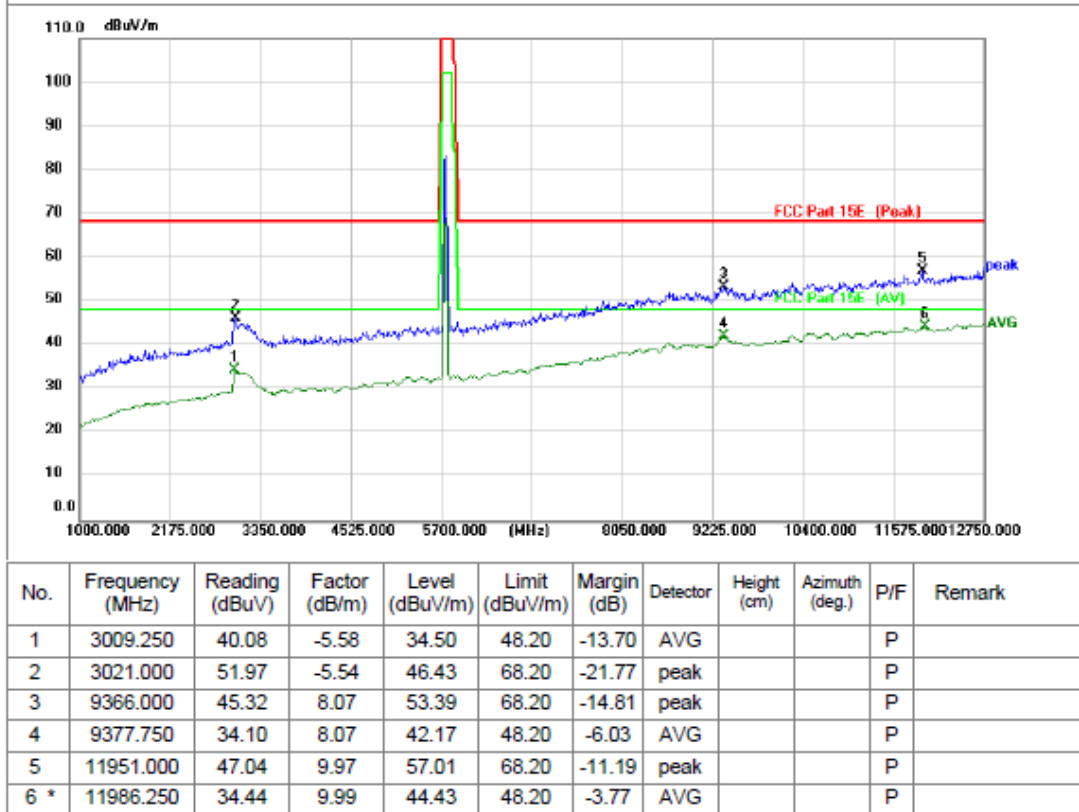
TM3 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: H



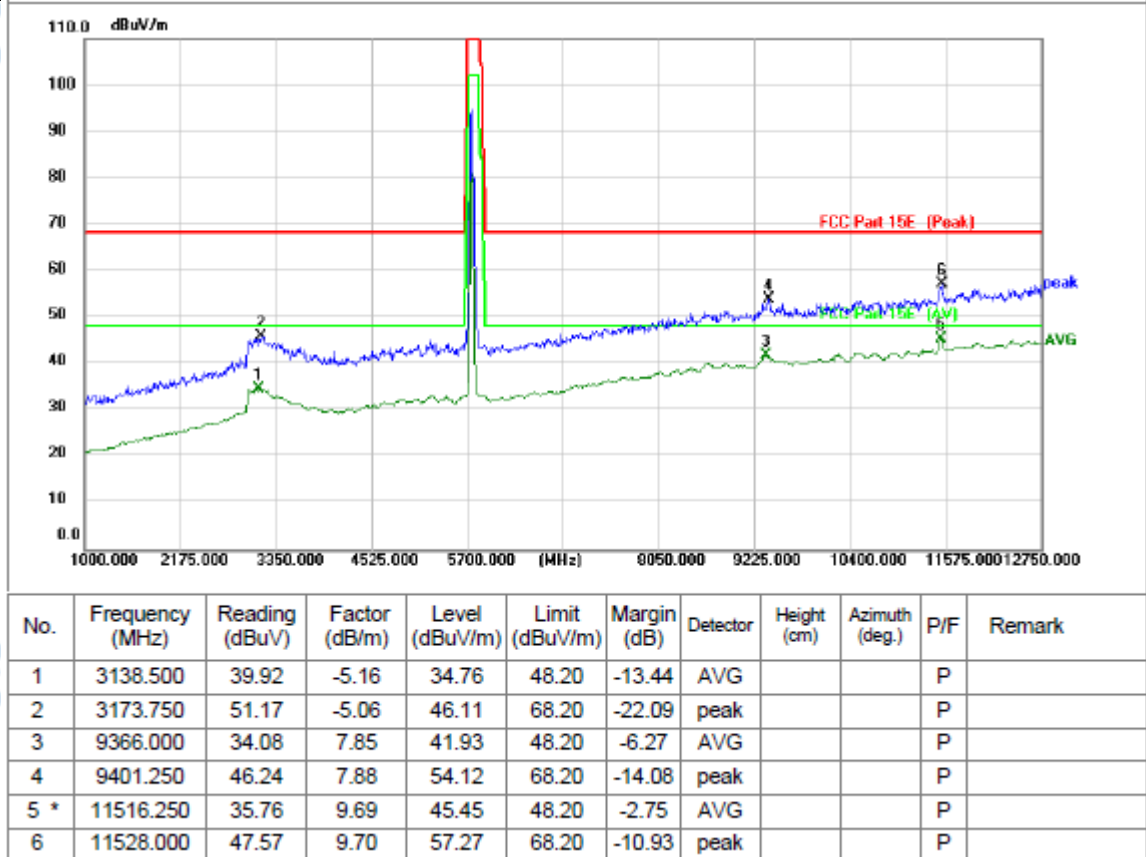
TM3 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: H



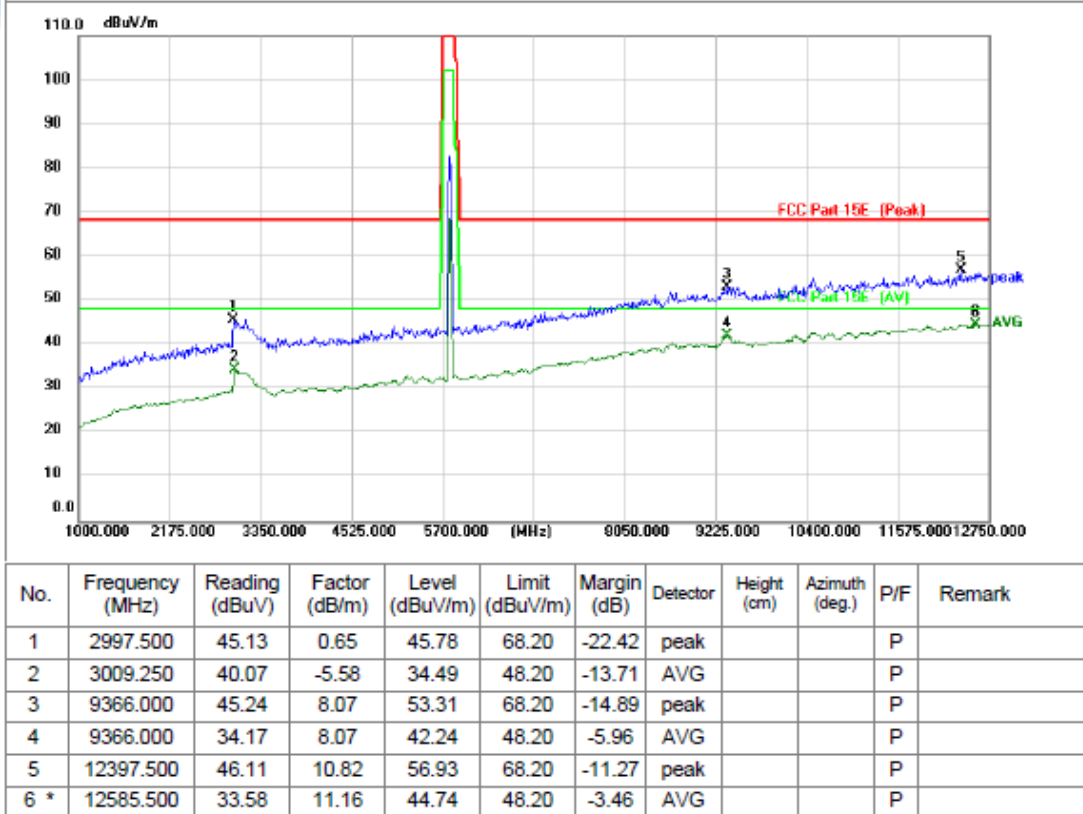
TM3 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 40 / CH: L



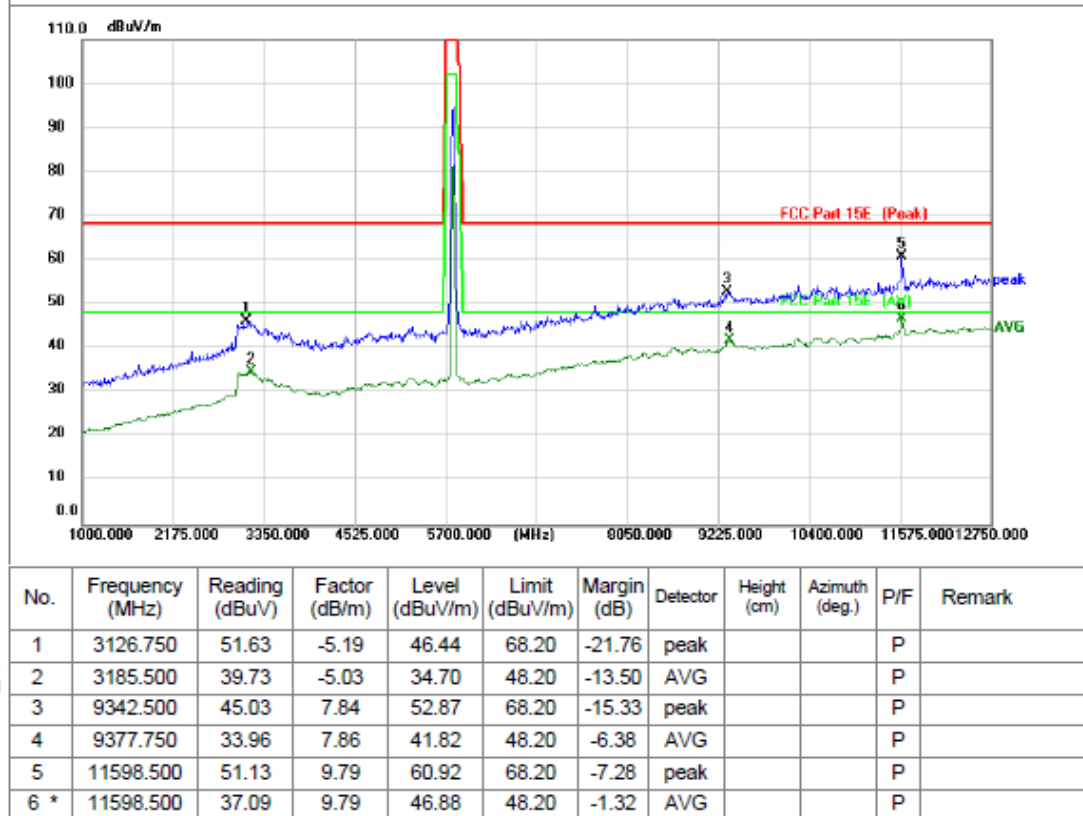
TM3 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 40 / CH: L



TM3 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 40 / CH: H

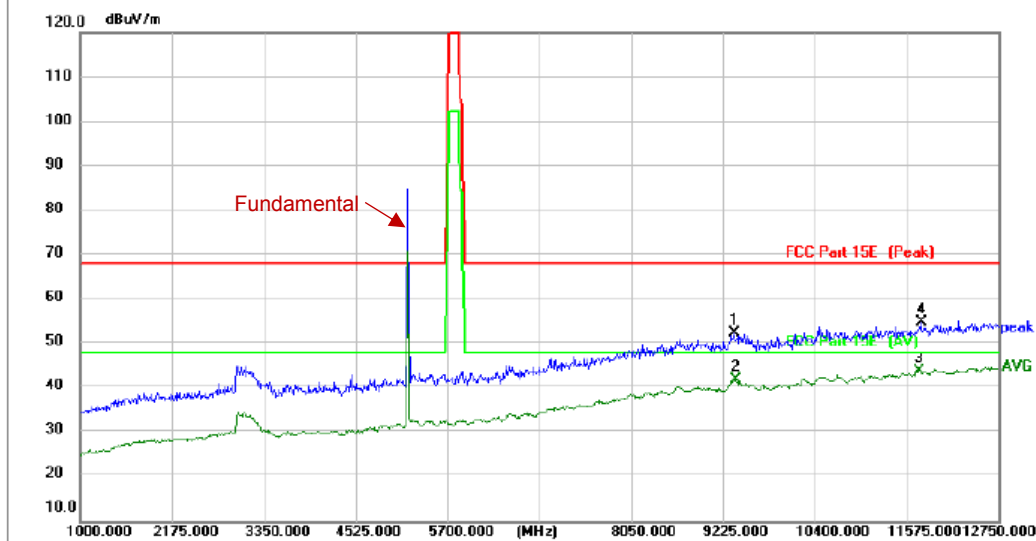


TM3 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 40 / CH: H



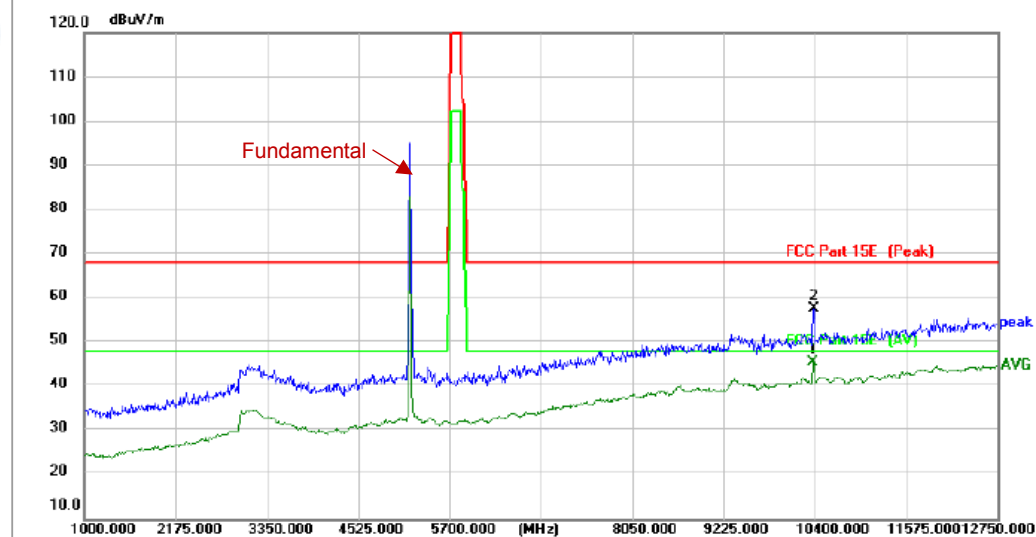
ANT3

TM2 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: L



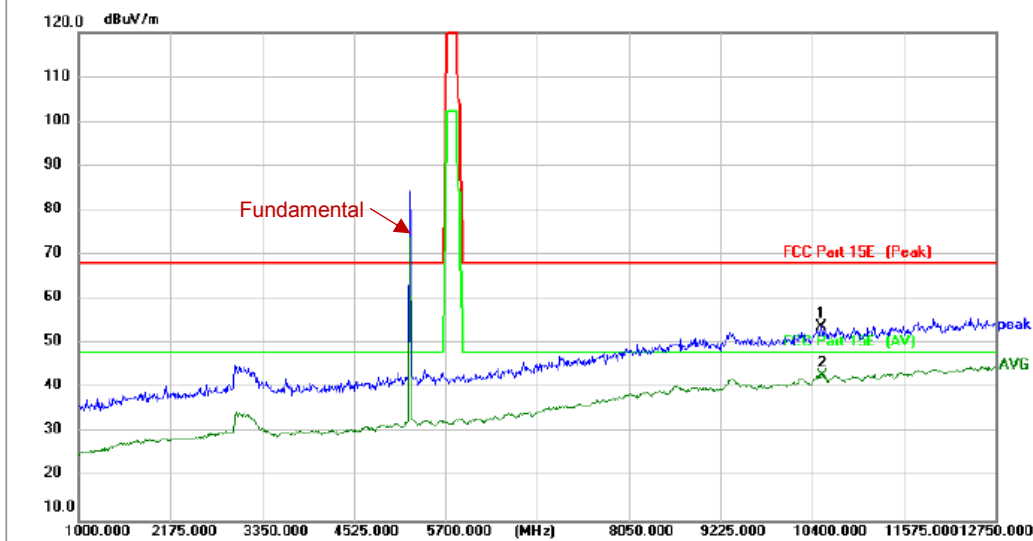
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	9366.000	44.46	8.07	52.53	68.20	-15.67	peak			P	
2	9389.500	34.00	8.08	42.08	48.20	-6.12	AVG			P	
3 *	11739.500	34.26	9.84	44.10	48.20	-4.10	AVG			P	
4	11763.000	45.03	9.85	54.88	68.20	-13.32	peak			P	

TM2 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: L



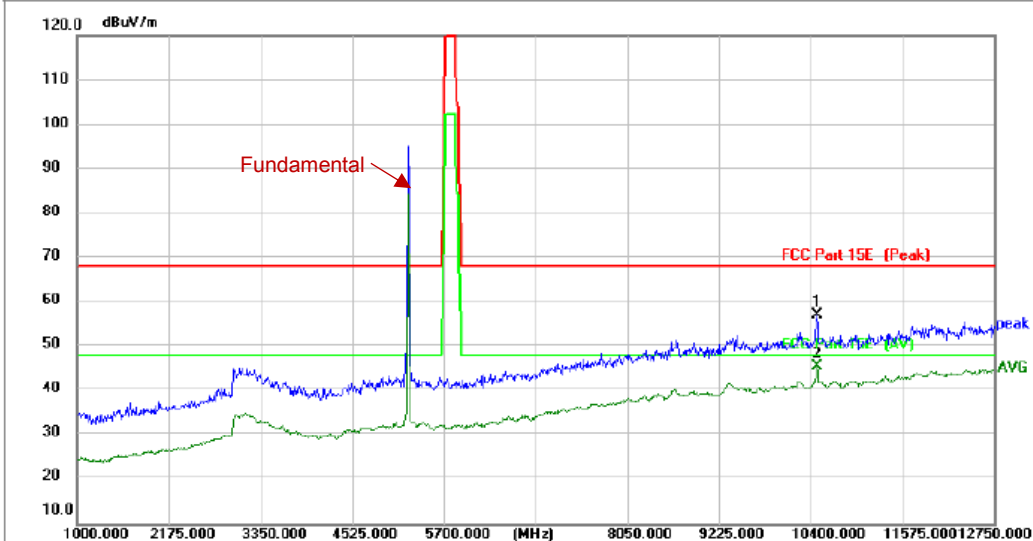
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	10376.500	37.12	8.56	45.68	48.20	-2.52	AVG			P	
2	10388.250	49.24	8.58	57.82	68.20	-10.38	peak			P	

TM2 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: H



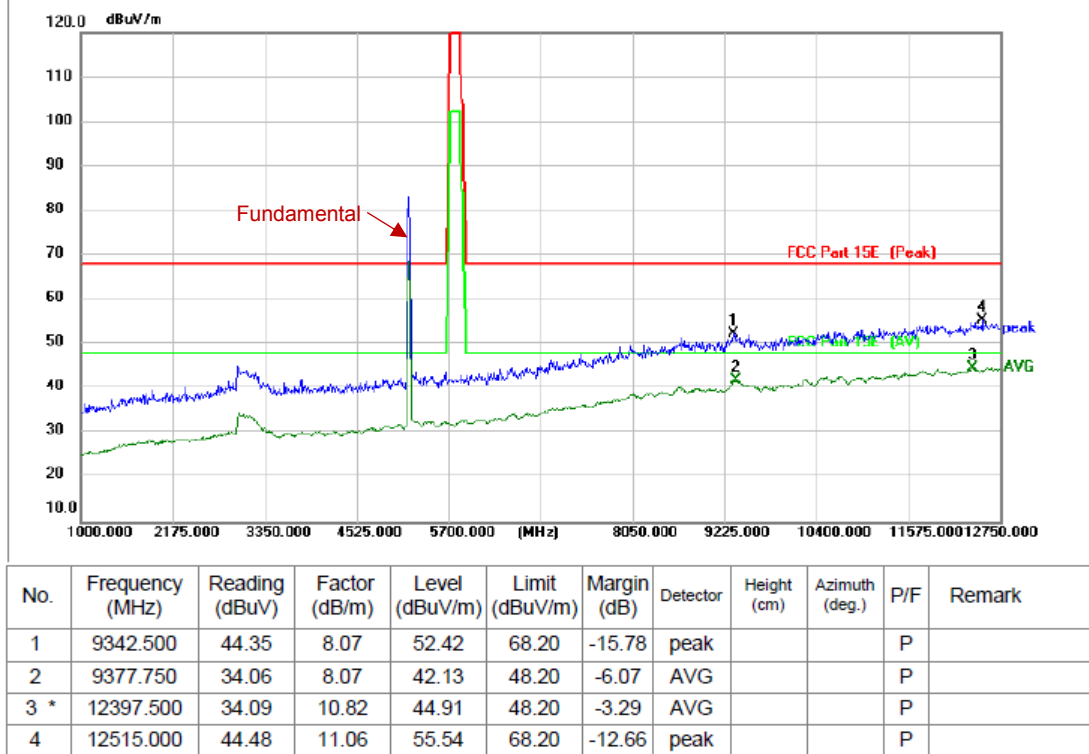
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	10517.500	44.71	9.03	53.74	68.20	-14.46	peak			P	
2 *	10529.250	33.75	9.03	42.78	48.20	-5.42	AVG			P	

TM2 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: H

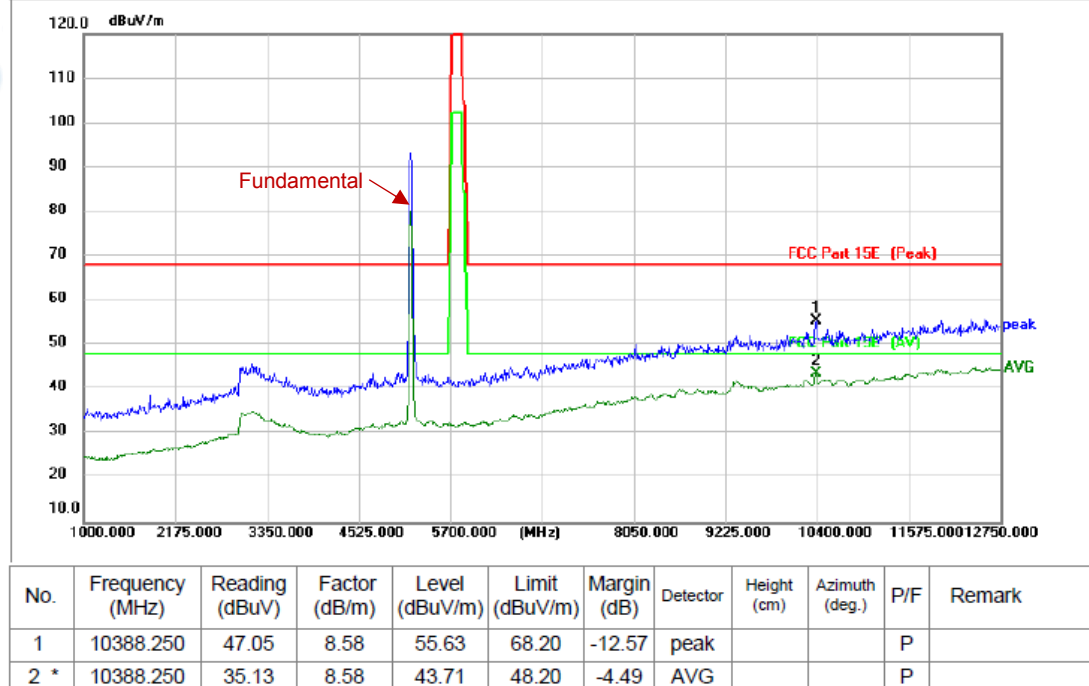


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	10482.250	48.64	8.63	57.27	68.20	-10.93	peak			P	
2 *	10482.250	37.07	8.63	45.70	48.20	-2.50	AVG			P	

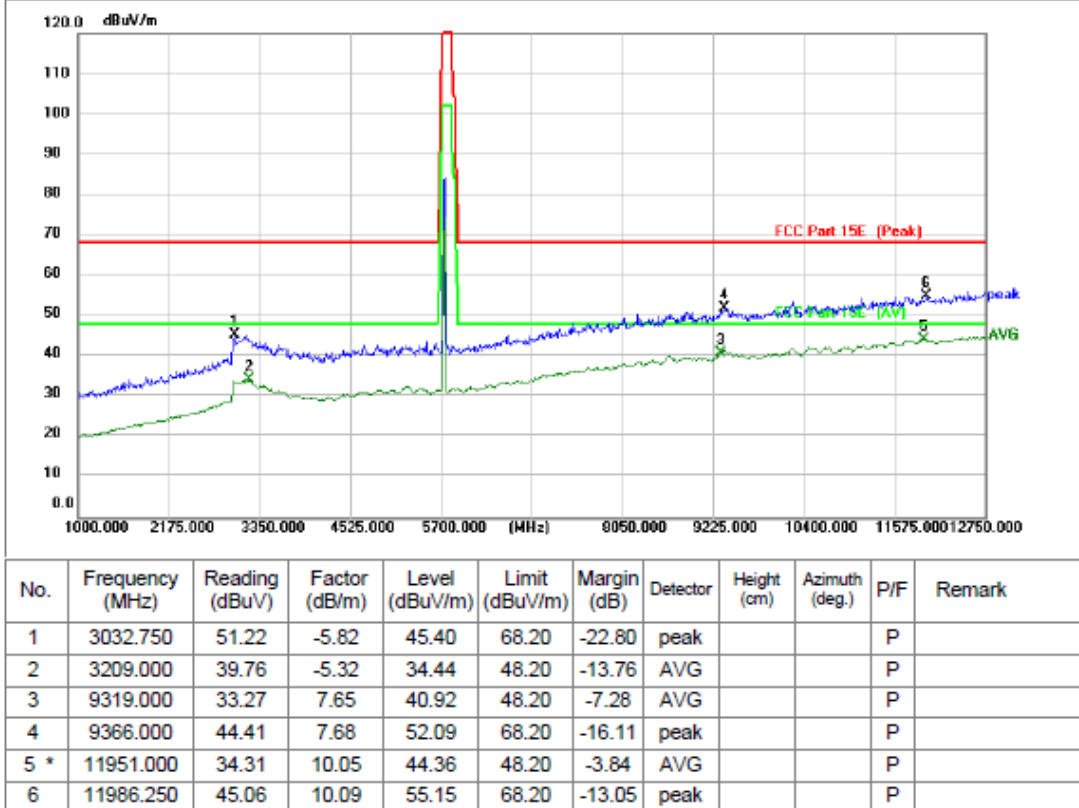
TM2 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 40 / CH: L



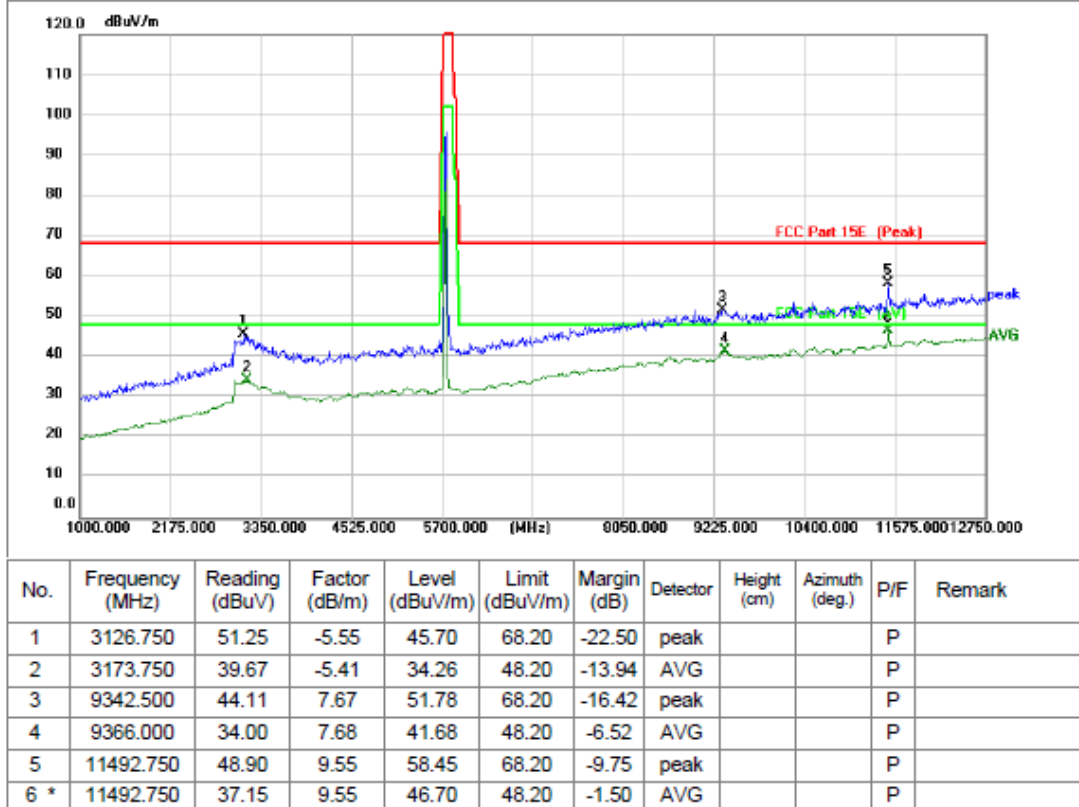
TM2 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 40 / CH: L



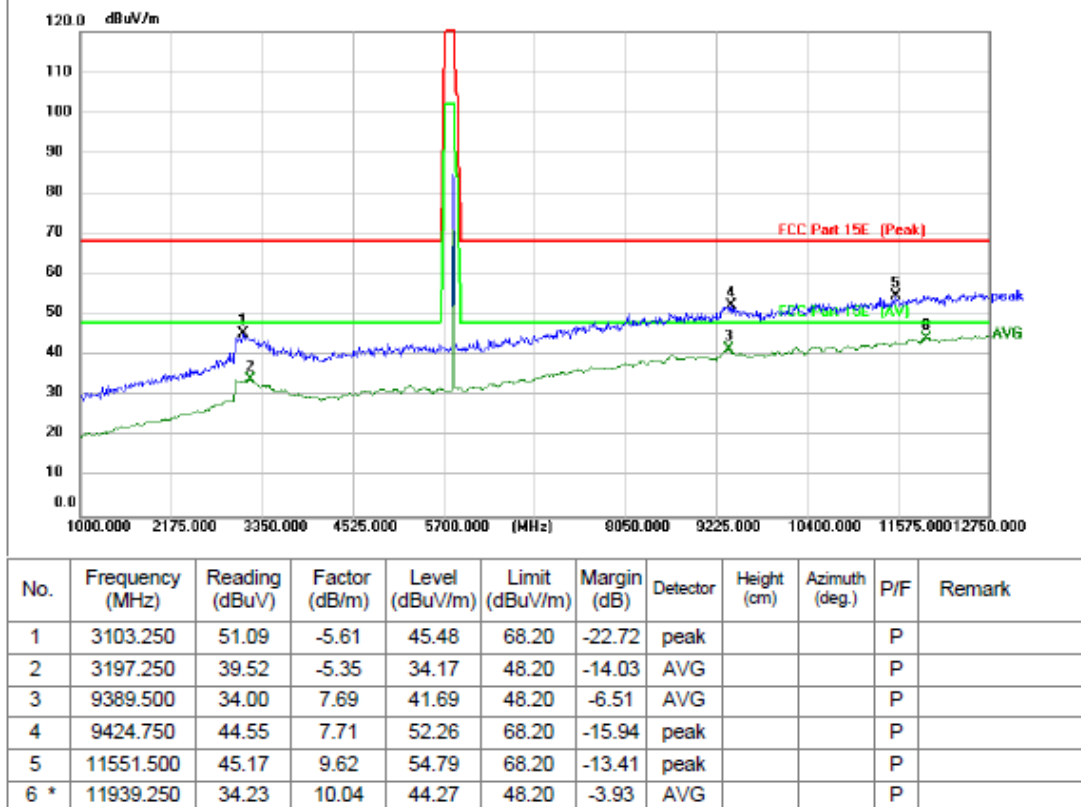
TM2 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: L



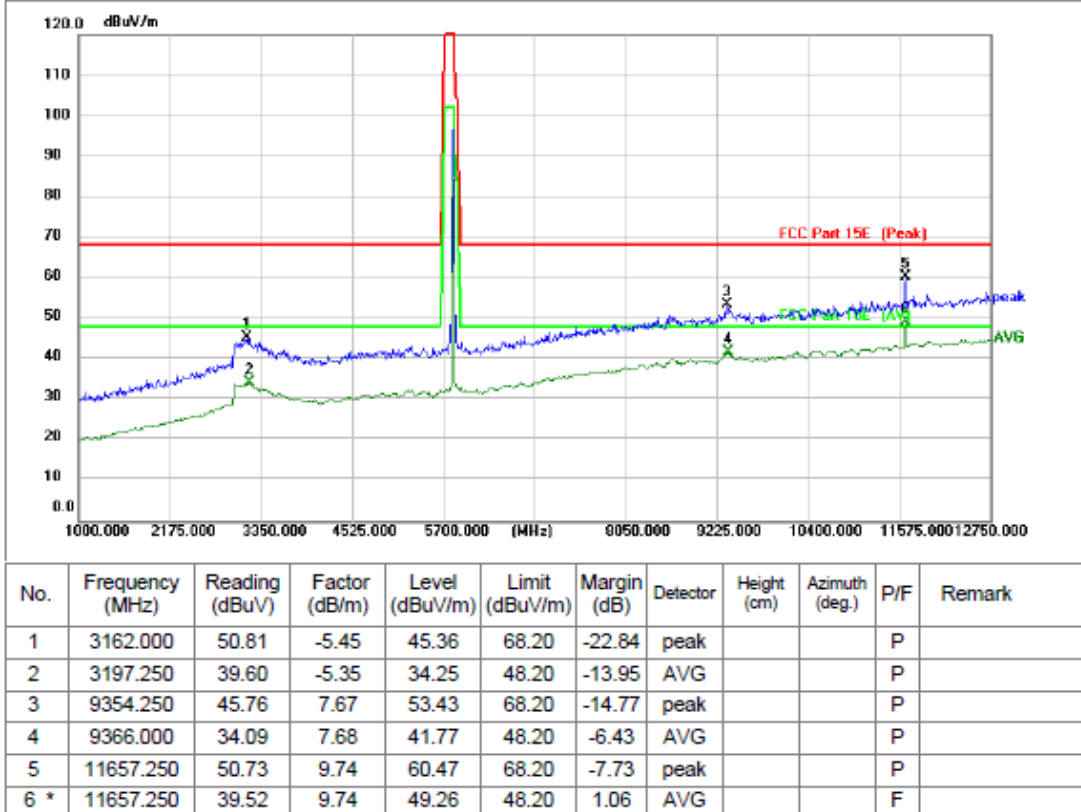
TM2 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: L



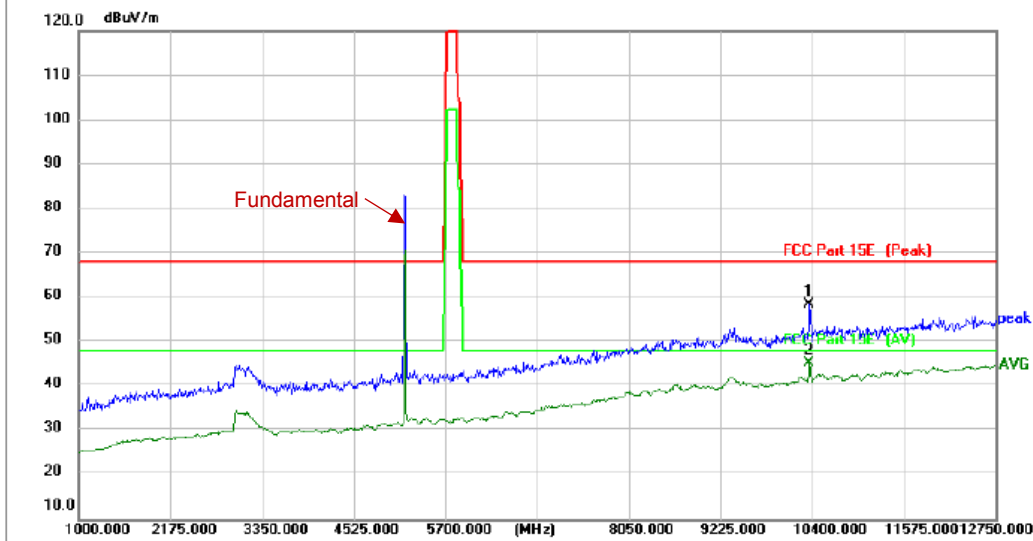
TM2 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: H



TM2 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: H

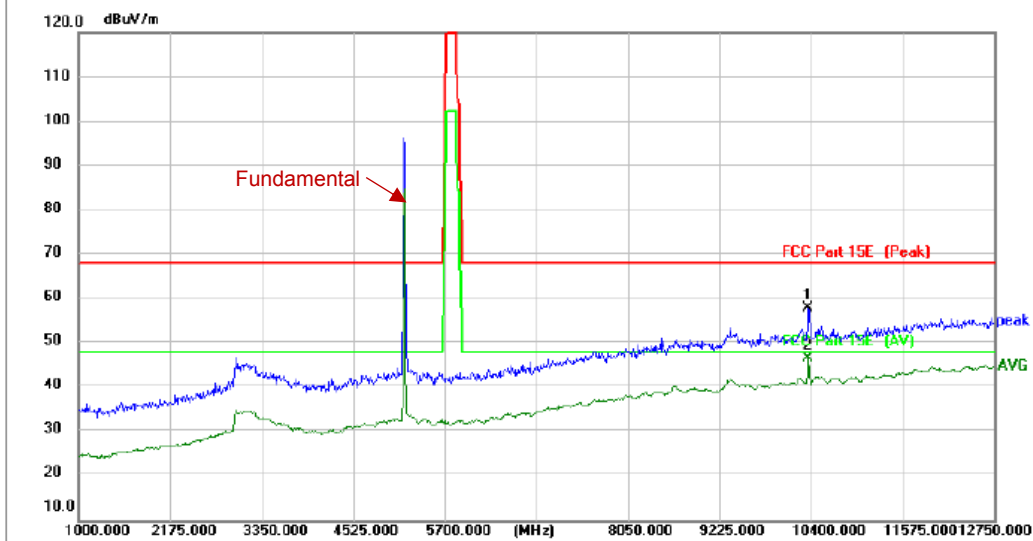


TM3 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: L



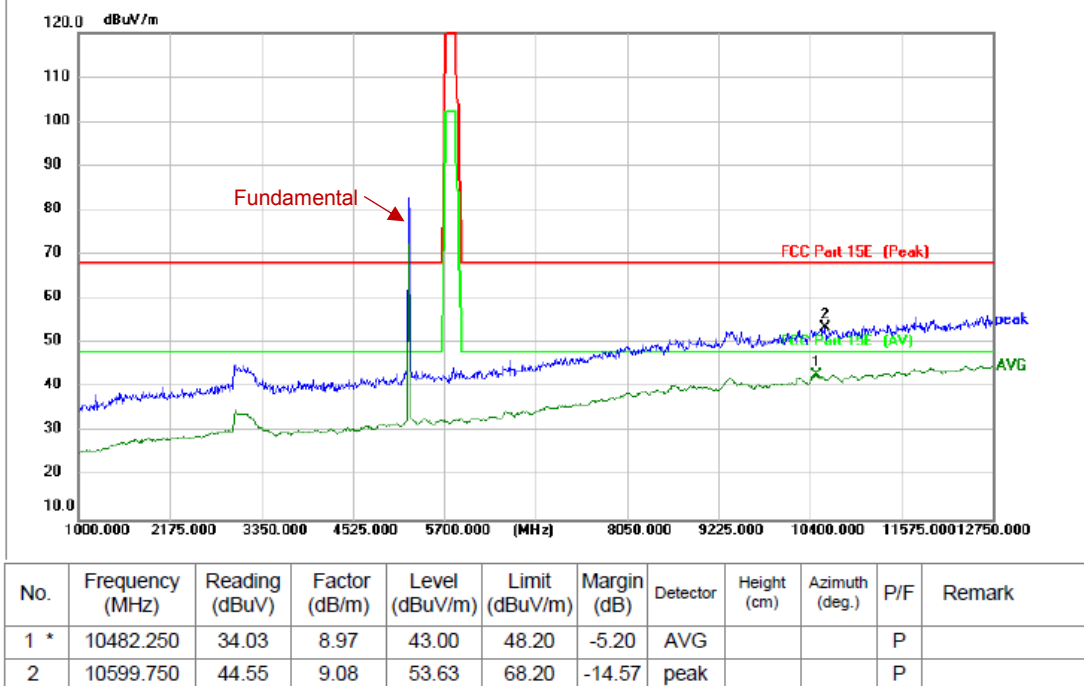
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	10364.750	49.70	8.76	58.46	68.20	-9.74	peak			P	
2 *	10364.750	36.48	8.76	45.24	48.20	-2.96	AVG			P	

TM3 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: L

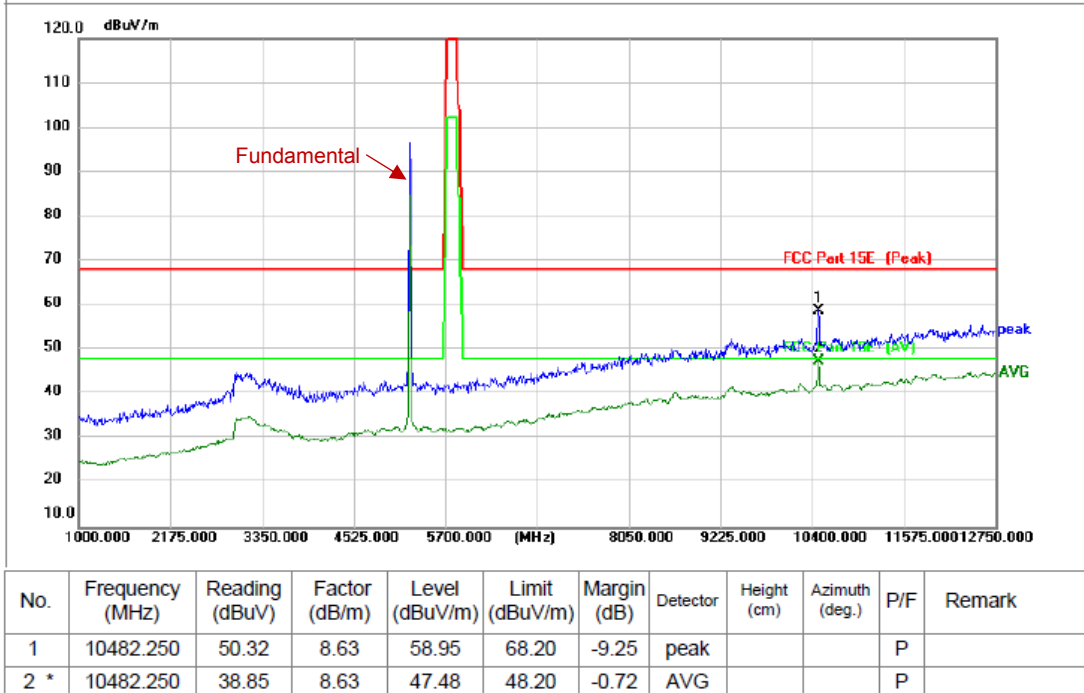


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	10364.750	49.39	8.56	57.95	68.20	-10.25	peak			P	
2 *	10364.750	38.29	8.56	46.85	48.20	-1.35	AVG			P	

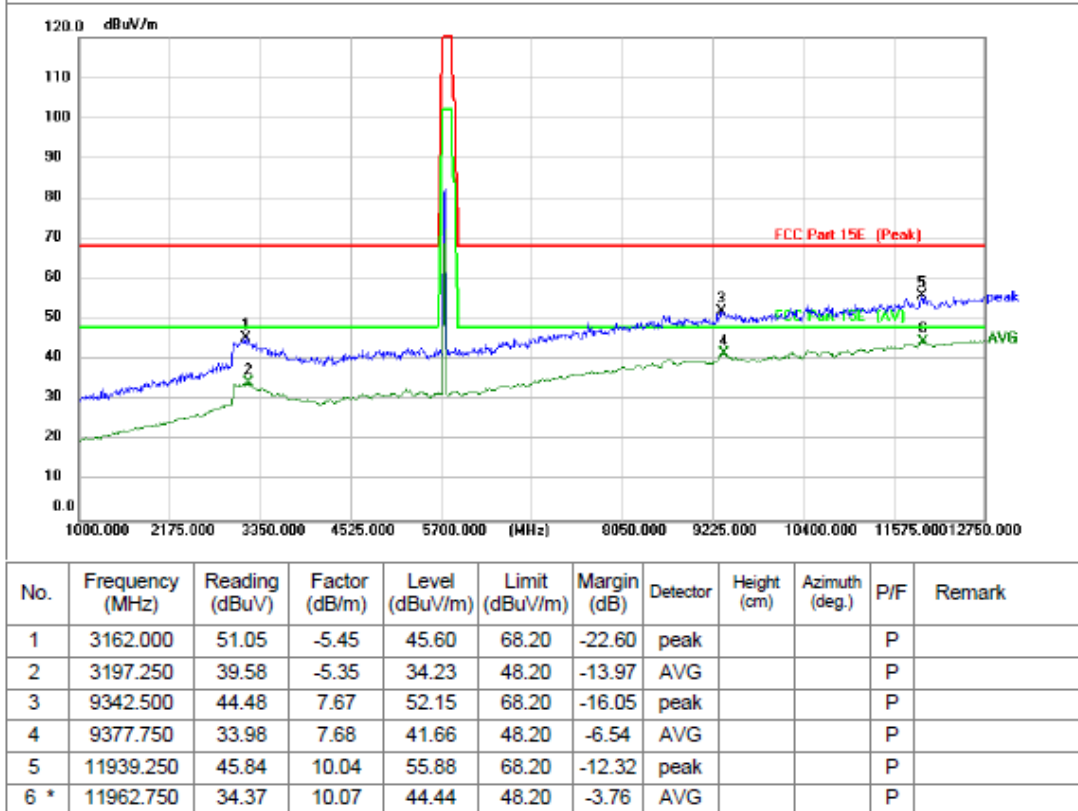
TM3 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: H



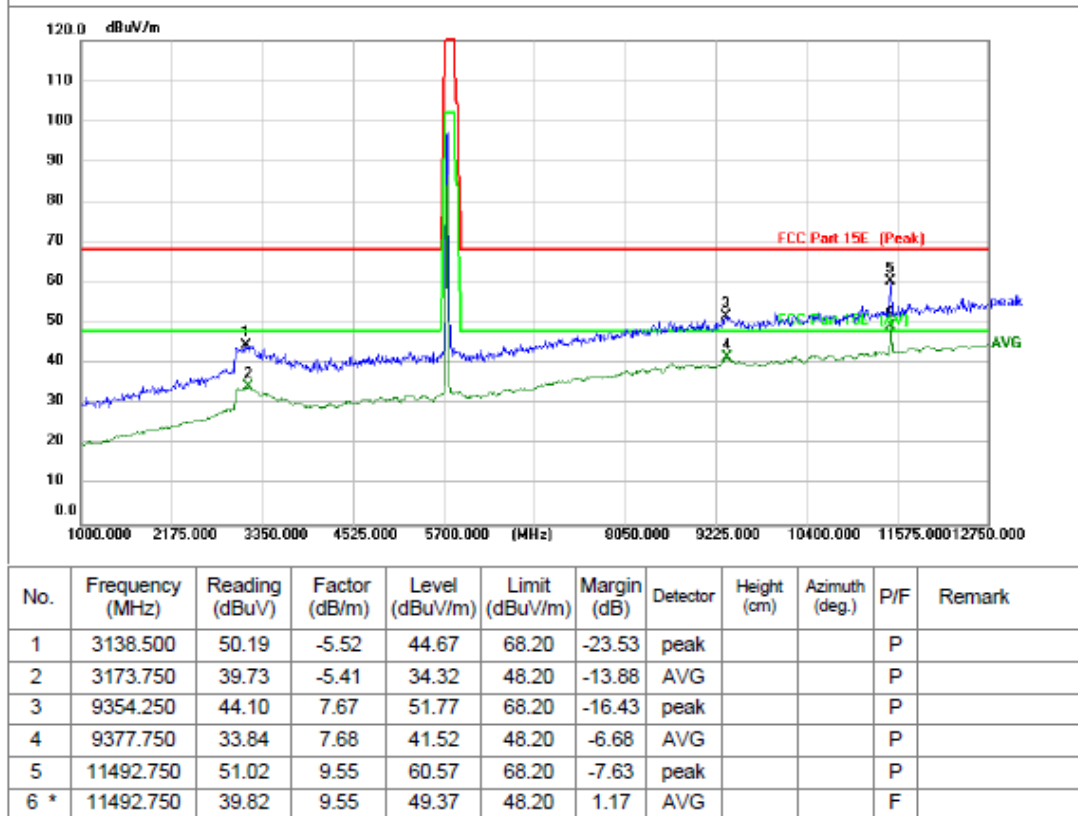
TM3 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: H



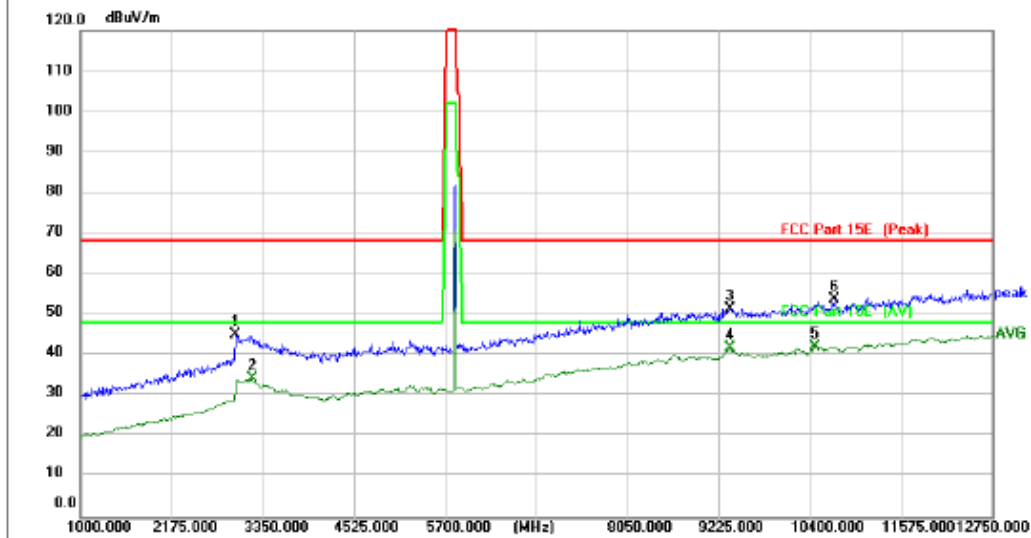
TM3 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: L



TM3 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: L

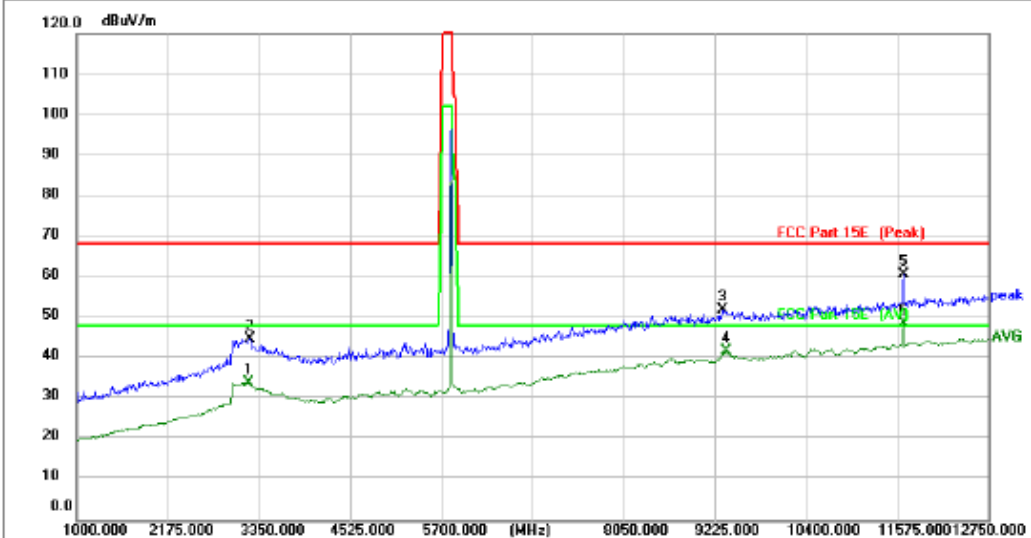


TM3 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: H



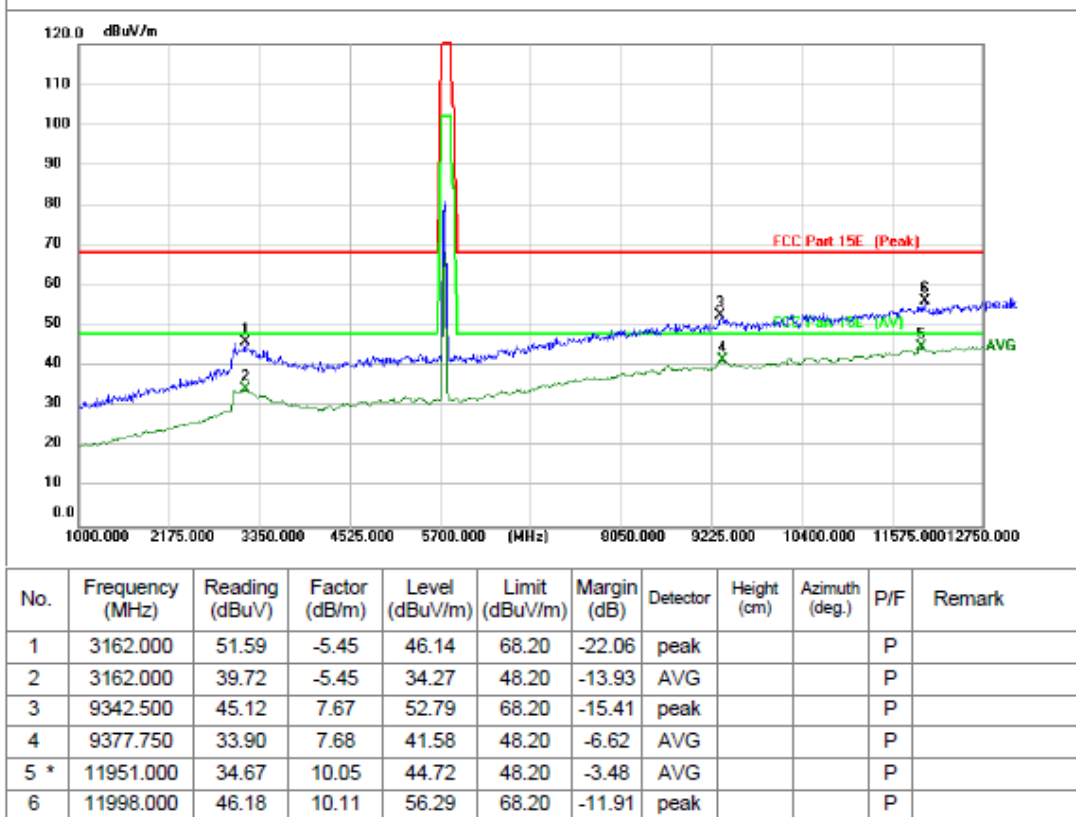
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2997.500	44.95	0.34	45.29	68.20	-22.91	peak			P	
2	3220.750	39.59	-5.29	34.30	48.20	-13.90	AVG			P	
3	9366.000	43.81	7.68	51.49	68.20	-16.71	peak			P	
4	9366.000	34.03	7.68	41.71	48.20	-6.49	AVG			P	
5 *	10470.500	33.76	8.47	42.23	48.20	-5.97	AVG			P	
6	10717.250	45.14	8.73	53.87	68.20	-14.33	peak			P	

TM3 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: H

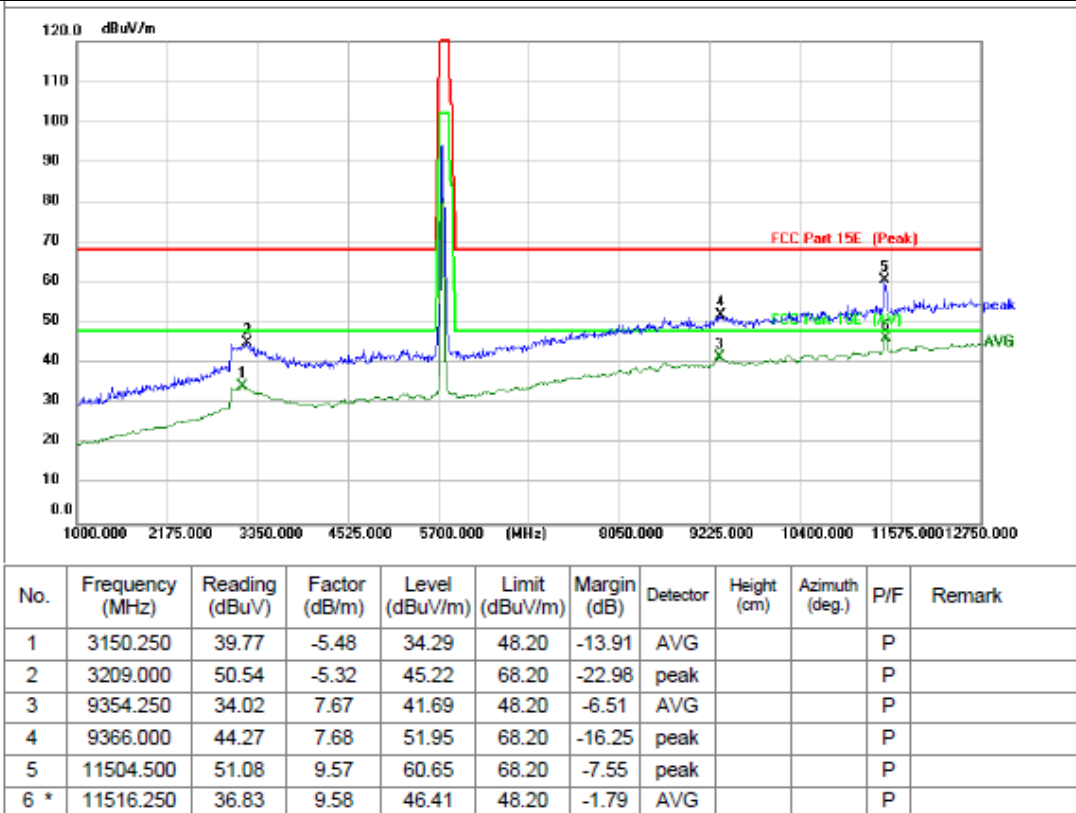


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	3209.000	39.45	-5.32	34.13	48.20	-14.07	AVG			P	
2	3232.500	50.05	-5.26	44.79	68.20	-23.41	peak			P	
3	9319.000	44.31	7.65	51.96	68.20	-16.24	peak			P	
4	9377.750	34.15	7.68	41.83	48.20	-6.37	AVG			P	
5	11657.250	51.03	9.74	60.77	68.20	-7.43	peak			P	
6 *	11657.250	39.12	9.74	48.86	48.20	0.66	AVG			F	

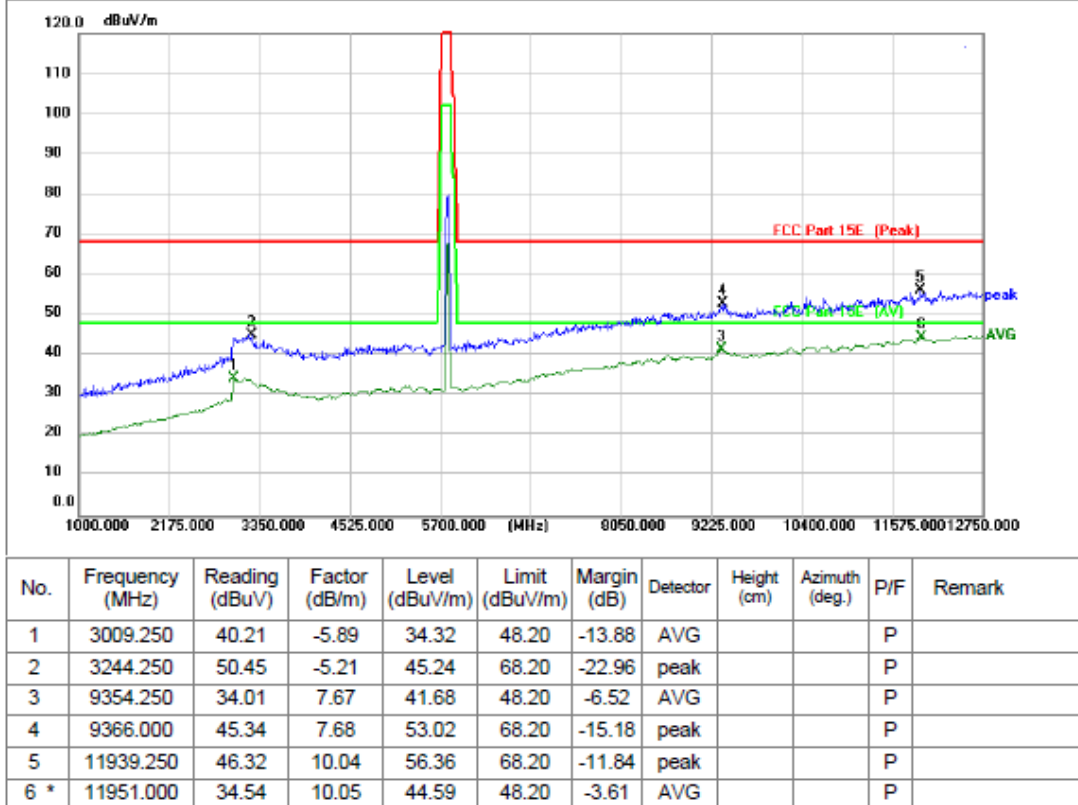
TM3 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 40 / CH: L



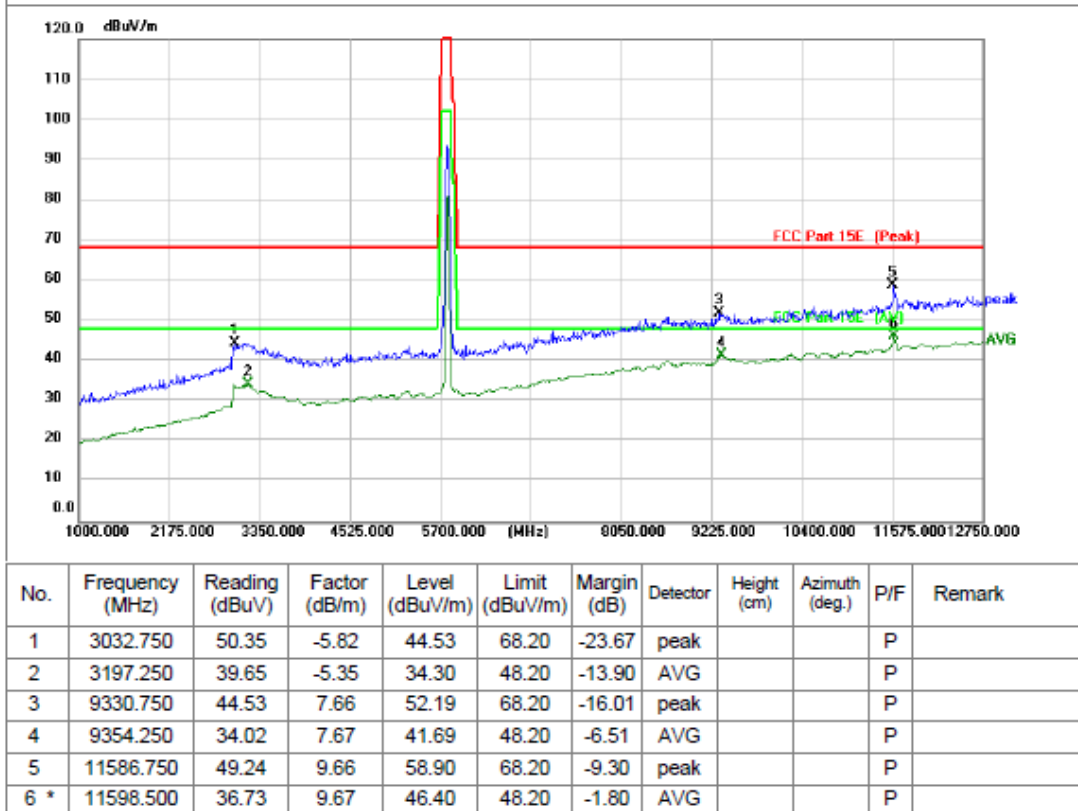
TM3 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 40 / CH: L



TM3 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 40 / CH: H

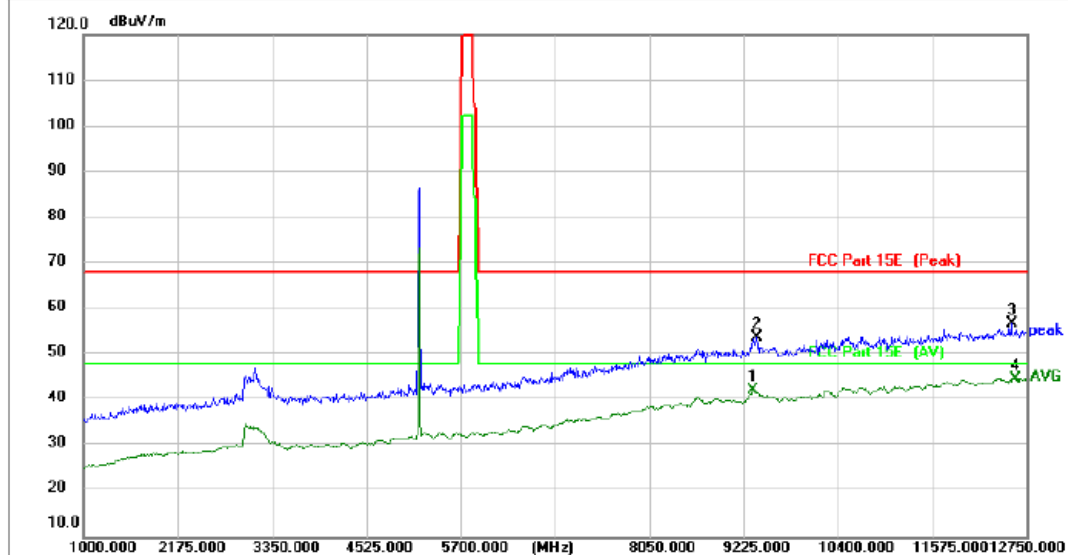


TM3 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 40 / CH: H



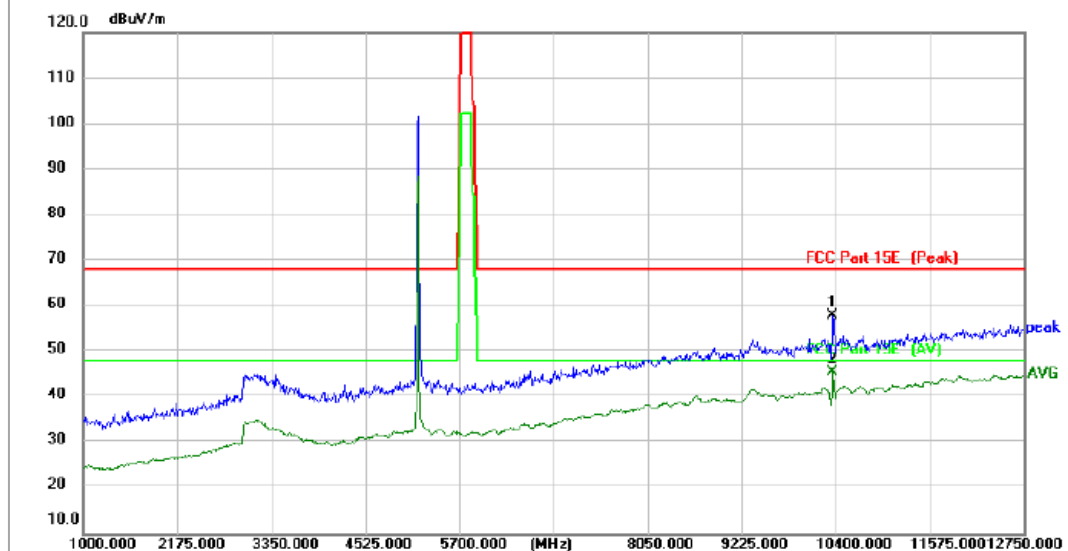
MIMO

TM2 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	9342.500	34.16	8.07	42.23	48.20	-5.97	AVG			P	
2	9389.500	45.74	8.08	53.82	68.20	-14.38	peak			P	
3	12562.000	45.69	11.12	56.81	68.20	-11.39	peak			P	
4 *	12609.000	33.58	11.19	44.77	48.20	-3.43	AVG			P	

TM2 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	10364.750	49.41	8.56	57.97	68.20	-10.23	peak			P	
2 *	10364.750	37.14	8.56	45.70	48.20	-2.50	AVG			P	