

RF TEST REPORT

For

Shen Zhen Shi Zhi Lian Mao Ke Ji You Xian Gong Si

Product Name: Car Smart Mirror

Test Model(s): Z96

Report Reference No. : DACE241030001RF003

FCC ID : 2BNA6-Z96

Applicant's Name : Shen Zhen Shi Zhi Lian Mao Ke Ji You Xian Gong Si

Address : Room 1305-1306, Yifenghua Building, No. 28, Yifenghua Innovation
Industrial Park, Xinshi Community, Dalang Street, Longhua District,
Shenzhen, Guangdong, China

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

Address : 102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park,
Tangtou Community, Shiyan Subdistrict, Bao'an District, Shenzhen,
Guangdong, China

Test Specification Standard : 47 CFR Part 15E

Date of Receipt : October 30, 2024

Date of Test : October 30, 2024 to December 16, 2024

Data of Issue : December 16, 2024

Result : Pass

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Apply for company information

Applicant's Name	:	Shen Zhen Shi Zhi Lian Mao Ke Ji You Xian Gong Si
Address	:	Room 1305-1306, Yifenghua Building, No. 28, Yifenghua Innovation Industrial Park, Xinshi Community, Dalang Street, Longhua District, Shenzhen, Guangdong, China
Product Name	:	Car Smart Mirror
Test Model(s)	:	Z96
Test Specification Standard(s)	:	47 CFR Part 15E

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.

Compiled by:

Keren Huang

Keren Huang / Test Engineer

December 16, 2024

Supervised by:

Stone Yin

Stone Yin / Project Engineer

December 16, 2024



Approved by:

Tom Chen

Tom Chen / Manager

December 16, 2024

Revision History Of Report

Version	Description	REPORT No.	Issue Date
V1.0	Original	DACE241030001RF003	December 16, 2024

CONTENTS

1 TEST SUMMARY	6
1.1 TEST STANDARDS	6
1.2 SUMMARY OF TEST RESULT	6
2 GENERAL INFORMATION	7
2.1 CLIENT INFORMATION	7
2.2 DESCRIPTION OF DEVICE (EUT)	7
2.3 DESCRIPTION OF TEST MODES	7
2.4 DESCRIPTION OF SUPPORT UNITS	8
2.5 EQUIPMENTS USED DURING THE TEST	8
2.6 STATEMENT OF THE MEASUREMENT UNCERTAINTY	10
2.7 AUTHORIZATIONS	10
2.8 ANNOUNCEMENT	10
3 RADIO SPECTRUM MATTER TEST RESULTS (RF)	11
3.1 DUTY CYCLE	11
3.1.1 E.U.T. Operation:	11
3.1.2 Test Setup Diagram:	11
3.1.3 Test Data:	11
3.2 EMISSION BANDWIDTH AND OCCUPIED BANDWIDTH	12
3.2.1 E.U.T. Operation:	13
3.2.2 Test Setup Diagram:	13
3.2.3 Test Data:	13
3.3 MAXIMUM CONDUCTED OUTPUT POWER	14
3.3.1 E.U.T. Operation:	14
3.3.2 Test Setup Diagram:	14
3.3.3 Test Data:	14
3.4 POWER SPECTRAL DENSITY	15
3.4.1 E.U.T. Operation:	15
3.4.2 Test Setup Diagram:	15
3.4.3 Test Data:	15
3.5 BAND EDGE EMISSIONS (RADIATED)	16
3.5.1 E.U.T. Operation:	18
3.5.2 Test Setup Diagram:	18
3.5.3 Test Data:	19
3.6 UNDESIRABLE EMISSION LIMITS (BELOW 1GHz)	33
3.6.1 E.U.T. Operation:	34
3.6.2 Test Data:	35
3.7 UNDESIRABLE EMISSION LIMITS (ABOVE 1GHz)	37
3.7.1 E.U.T. Operation:	39
3.7.2 Test Setup Diagram:	39
3.7.3 Test Data:	40
4 TEST SETUP PHOTOS	46
5 PHOTOS OF THE EUT	46
APPENDIX-5.2G	47
1. -26dB AND 99% EMISSION BANDWIDTH	47
2. DUTY CYCLE	62
3. MAXIMUM CONDUCTED OUTPUT POWER	70
4. POWER SPECTRAL DENSITY	71

5. BANDEDGE	79
6. SPURIOUS EMISSION	85
7. FREQUENCY STABILITY	93
APPENDIX-5.8G	95
1. -6dB EMISSION BANDWIDTH	95
2. -26dB AND 99% EMISSION BANDWIDTH	103
3. DUTY CYCLE	118
4. MAXIMUM CONDUCTED OUTPUT POWER	126
5. POWER SPECTRAL DENSITY	127
6. BANDEDGE	135
7. SPURIOUS EMISSION	142
8. FREQUENCY STABILITY	150

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	/	47 CFR 15.203	Pass
Duty Cycle	ANSI C63.10-2013 section 12.2 (b)	/	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
Maximum conducted output power	ANSI C63.10-2013, section 12.3	47 CFR Part 15.407(a)(1)(iv) 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)(iv) 47 CFR Part 15.407(a)(3)(i)	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)(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)(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 : Shen Zhen Shi Zhi Lian Mao Ke Ji You Xian Gong Si
Address : Room 1305-1306, Yifenghua Building, No. 28, Yifenghua Innovation Industrial Park, Xinshi Community, Dalang Street, Longhua District, Shenzhen, Guangdong, China

Manufacturer : Shen Zhen Shi Zhi Lian Mao Ke Ji You Xian Gong Si
Address : Room 1305-1306, Yifenghua Building, No. 28, Yifenghua Innovation Industrial Park, Xinshi Community, Dalang Street, Longhua District, Shenzhen, Guangdong, China

2.2 Description of Device (EUT)

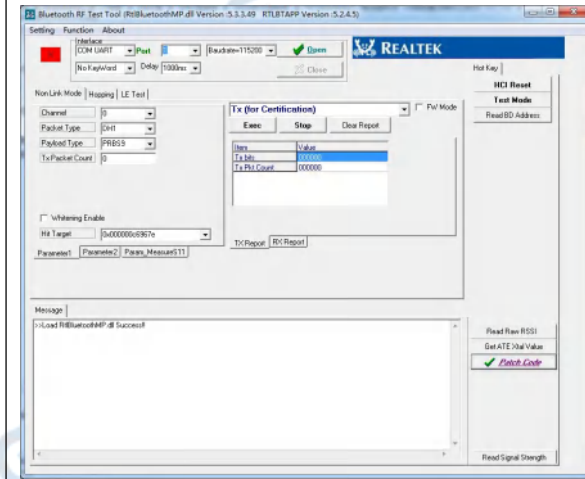
Product Name:	Car Smart Mirror
Model/Type reference:	Z96
Trade Mark:	zlimo
Product Description:	Car Smart Mirror
Power Supply:	DC5.0V from Car-Adapter (Car-Adapter: input: DC12.0V Output: DC5.0V)
Operation Frequency:	802.11a/n(HT20)/ac(HT20): U-NII Band 1: 5180MHz to 5240MHz; U-NII Band 3: 5745MHz to 5825MHz; 802.11n(HT40)/ac(HT40): U-NII Band 1: 5190MHz to 5230MHz; U-NII Band 3: 5755MHz to 5795MHz; 802.11ac(HT80): U-NII Band 1: 5210MHz; U-NII Band 3: 5775MHz
Number of Channels:	802.11a/n(HT20)/ac(HT20):U-NII Band 1: 4; U-NII Band 3: 5; 802.11n(HT40)/ac(HT40): U-NII Band 1: 2; U-NII Band 3: 2; 802.11ac(HT80): U-NII Band 1: 1; 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);
Antenna Type:	Chip Antenna
Antenna Gain:	2.8dBi
Hardware Version:	V5
Software Version:	RTLAPP V5.2.4.5

2.3 Description of Test Modes

No	Title	Description
TM1	802.11a mode	Keep the EUT in continuously transmitting mode with 802.11a modulation type at lowest, middle and highest channel. 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 in continuously transmitting mode with 802.11n modulation type at lowest, middle and highest channel. 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 in continuously transmitting mode with 802.11ac modulation type at lowest, middle and highest channel. 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.

Test software:



2.4 Description of Support Units

Title	Manufacturer	Decsription	NOTE
Car-adapter	/	INPUT:12-24V OUTPUT:5V 2.5A	Provide by client

2.5 Equipments Used During The Test

Duty Cycle

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	RTS-01	V1.0.0	/	/
Power divider	MIDWEST	PWD-2533	SMA-79	2023-05-11	2026-05-10
RF Sensor Unit	Tachoy Information	TR1029-2	000001	/	/
Wideband radio communication tester	R&S	CMW500	113410	2024-06-12	2025-06-11
Signal Generator	Keysight	N5181A	MY48180415	2023-12-11	2024-12-10
Signal Generator	Keysight	N5182A	MY50143455	2023-12-12	2024-12-11
Spectrum Analyzer	Keysight	N9020A	MY53420323	2023-12-12	2024-12-11

Undesirable emission limits (below 1GHz)					
Undesirable emission limits (above 1GHz)					
Band edge emissions (Radiated)					
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	2024-06-14	2026-06-13
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	2024-03-20	2025-03-19
Cable(HF)#1	Schwarzbeck	SYV-50-3-1	/	2024-03-20	2025-03-19
Power amplifier(LF)	Schwarzbeck	BBV9743	9743-151	2024-06-12	2025-06-11
Power amplifier(HF)	Schwarzbeck	BBV9718	9718-282	2024-06-12	2025-06-11
Wideband radio communication tester	R&S	CMW500	113410	2024-06-12	2025-06-11
Spectrum Analyzer	R&S	FSP30	1321.3008K40-101729-jR	2024-06-12	2025-06-11
Test Receiver	R&S	ESCI 3	1166.5950K03-101431-Jq	2024-06-13	2025-06-12
Horn Antenna	Sunol Sciences	DRH-118	A091114	2023-05-13	2025-05-12
Broadband Antenna	Sunol Sciences	JB6 Antenna	A090414	2024-09-28	2026-09-27

2.6 Statement Of The Measurement Uncertainty

Test Item	Measurement Uncertainty
Duty cycle	$\pm 3.1\%$
Occupied Bandwidth	$\pm 3.63\%$
RF conducted power	$\pm 0.733\text{dB}$
RF power density	$\pm 0.234\%$
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:	102, Building H1 & 1/F, Building H, Hongfa Science and Technology Park, Tangtou, Shiyao, Bao'An District, Shenzhen, 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:	102, Building H1 & 1/F, Building H, Hongfa Science and Technology Park, Tangtou, Shiyao, Bao'An District, Shenzhen, 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(item 2.2). 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 Radio Spectrum Matter Test Results (RF)

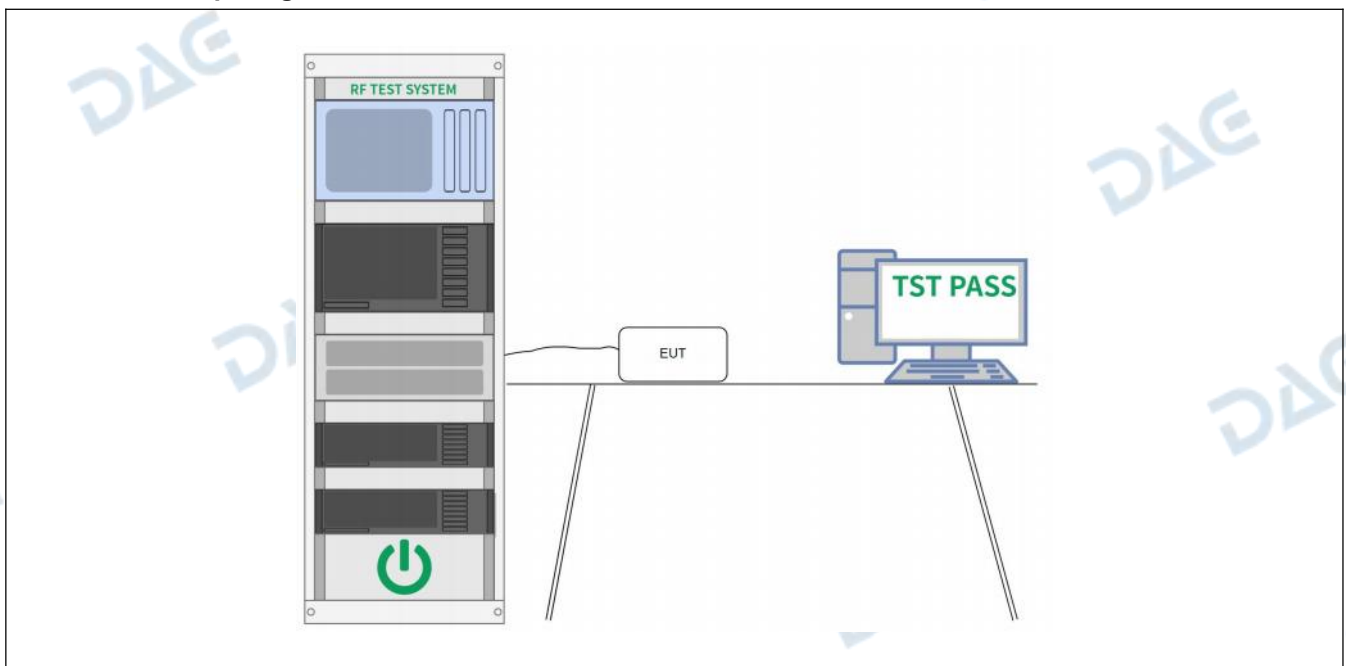
3.1 Duty Cycle

Test Requirement:	All measurements are to be performed with the EUT transmitting at 100% duty cycle at its maximum power control level; however, if 100% duty cycle cannot be achieved, measurements of duty cycle, x, and maximum-power transmission duration, T, are required for each tested mode of operation.
Test Limit:	No limits, only for report use.
Test Method:	ANSI C63.10-2013 section 12.2 (b)
Procedure:	i) Set the center frequency of the instrument to the center frequency of the transmission. ii) Set RBW $\geq$ EBW if possible; otherwise, set RBW to the largest available value. iii) Set VBW $\geq$ RBW. iv) Set detector = peak. v) The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$, where T is defined in item a1) of 12.2, and the number of sweep points across duration T exceeds 100.

3.1.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23.7 °C	Humidity:	52 %	Atmospheric Pressure:	102 kPa
Pretest mode:	TM1, TM2, TM3				
Final test mode:	TM1, TM2, TM3				

3.1.2 Test Setup Diagram:



3.1.3 Test Data:

Please Refer to Appendix for Details.

3.2 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

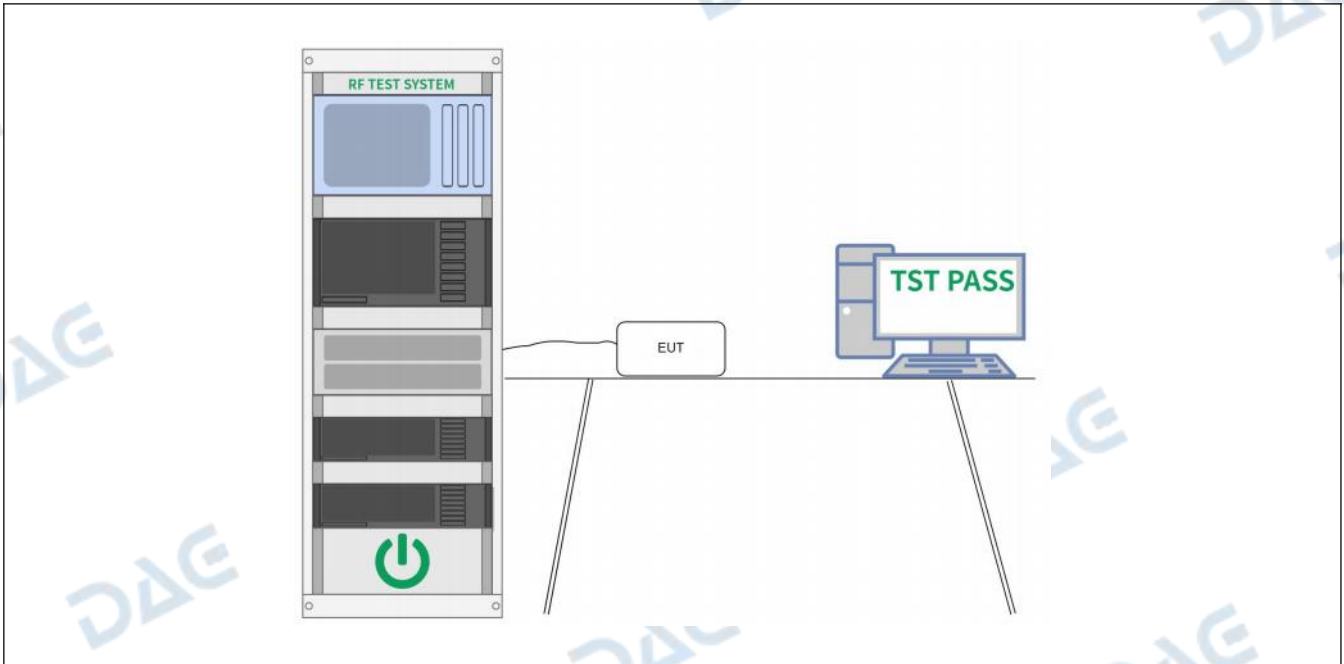
frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.2.1 E.U.T. Operation:

Operating Environment:

Temperature:	23.7 °C	Humidity:	52 %	Atmospheric Pressure:	102 kPa
Pretest mode:	TM1, TM2, TM3				
Final test mode:	TM1, TM2, TM3				

3.2.2 Test Setup Diagram:



3.2.3 Test Data:

Please Refer to Appendix for Details.

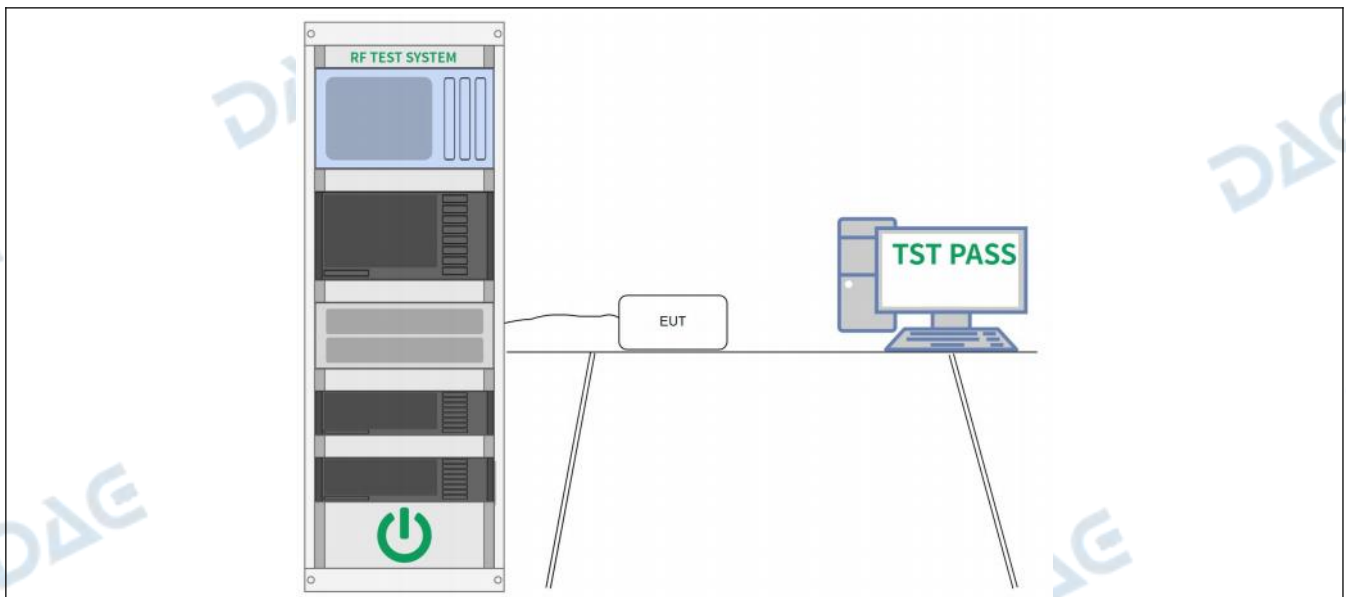
3.3 Maximum conducted output power

Test Requirement:	47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(3)(i)
Test Limit:	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 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 collocated 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

3.3.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23.7 °C	Humidity:	52 %	Atmospheric Pressure:	102 kPa
Pretest mode:	TM1, TM2, TM3				
Final test mode:	TM1, TM2, TM3				

3.3.2 Test Setup Diagram:



3.3.3 Test Data:

Please Refer to Appendix for Details.

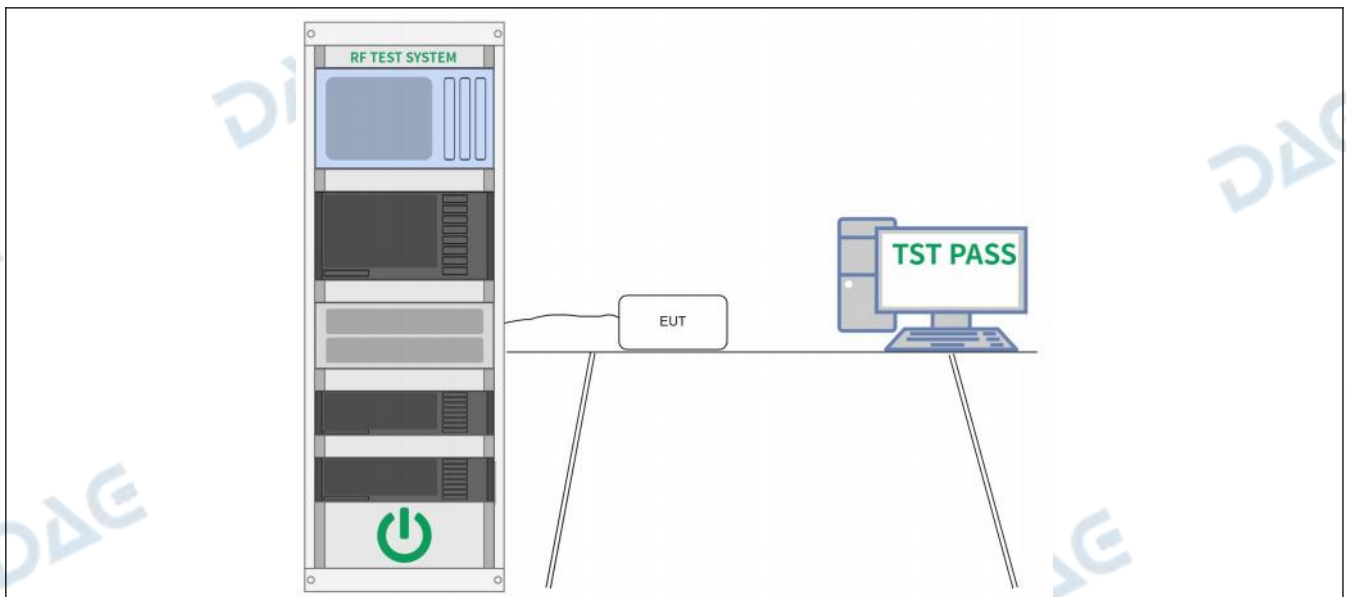
3.4 Power spectral density

Test Requirement:	47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(3)(i)
Test Limit:	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 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

3.4.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23.7 °C	Humidity:	52 %	Atmospheric Pressure:	102 kPa
Pretest mode:	TM1, TM2, TM3				
Final test mode:	TM1, TM2, TM3				

3.4.2 Test Setup Diagram:



3.4.3 Test Data:

Please Refer to Appendix for Details.

3.5 Band edge emissions (Radiated)

Test Requirement:	47 CFR Part 15.407(b)(1) 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 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 border="1"> <thead> <tr> <th>MHz</th><th>MHz</th><th>MHz</th><th>GHz</th></tr> </thead> <tbody> <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>¹ 0.495-0.505</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> </tbody> </table> ¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. ² Above 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 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:			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																																																																								
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13.36-13.41																																																																											

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

** 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.

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. - 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

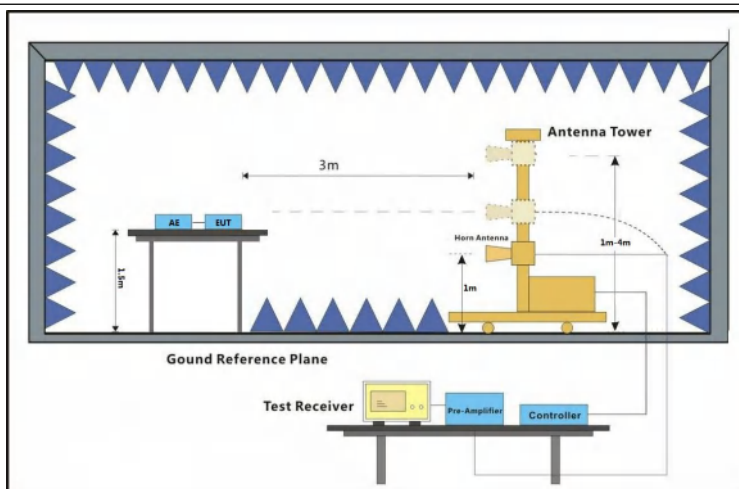
than the average limit, only the peak measurement is shown in the report.
4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

3.5.1 E.U.T. Operation:

Operating Environment:

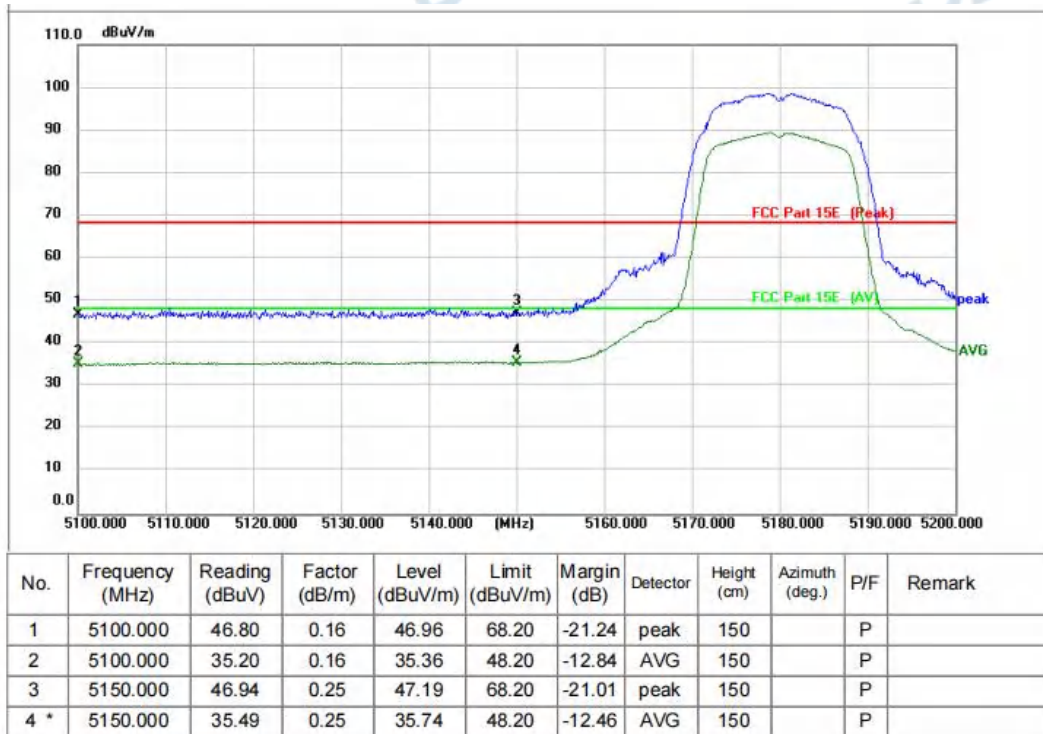
Temperature:	23.7 °C	Humidity:	52 %	Atmospheric Pressure:	102 kPa
Pretest mode:	TM1, TM2, TM3				
Final test mode:	TM1, TM2, TM3				

3.5.2 Test Setup Diagram:

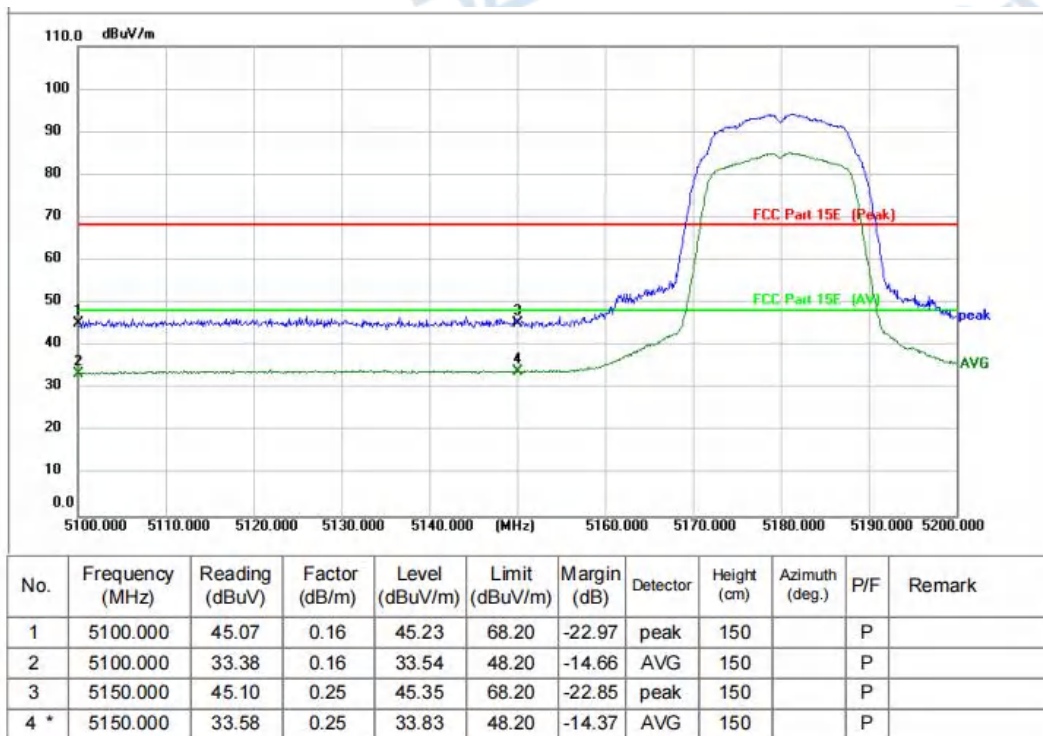


3.5.3 Test Data:

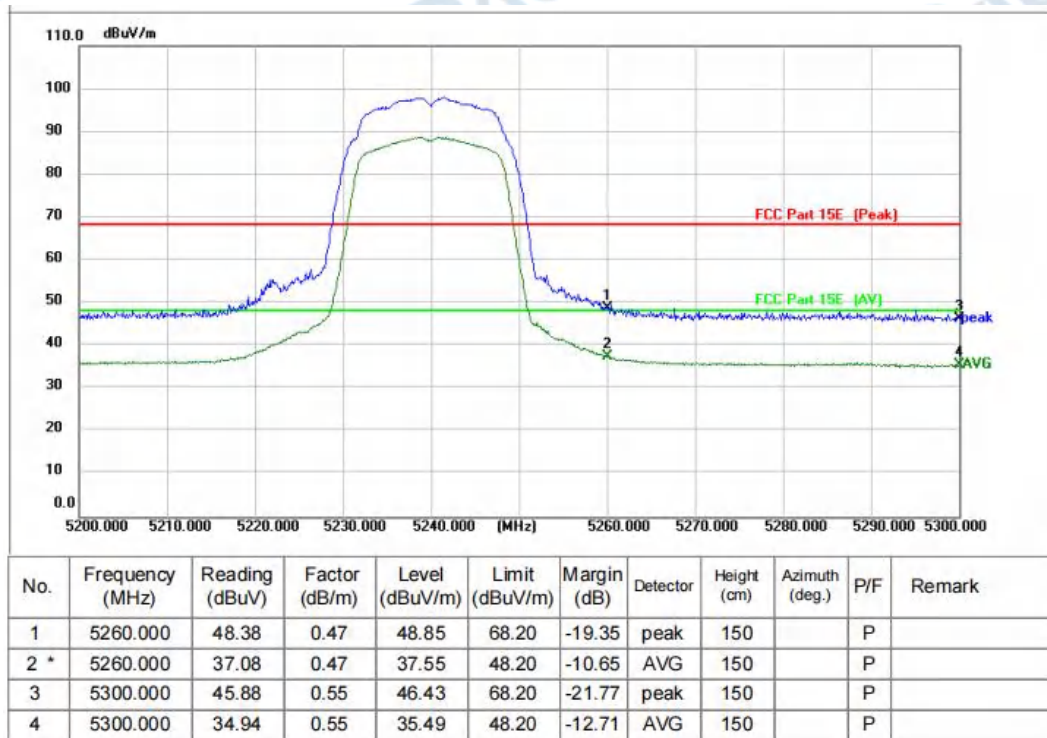
TM1 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: L



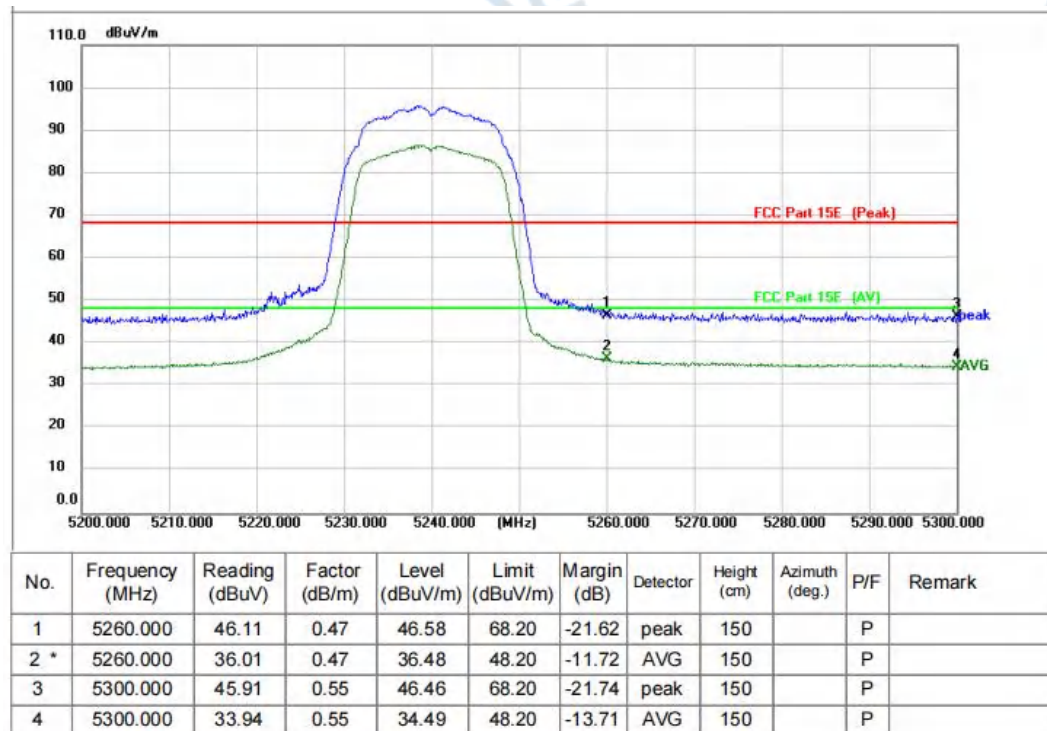
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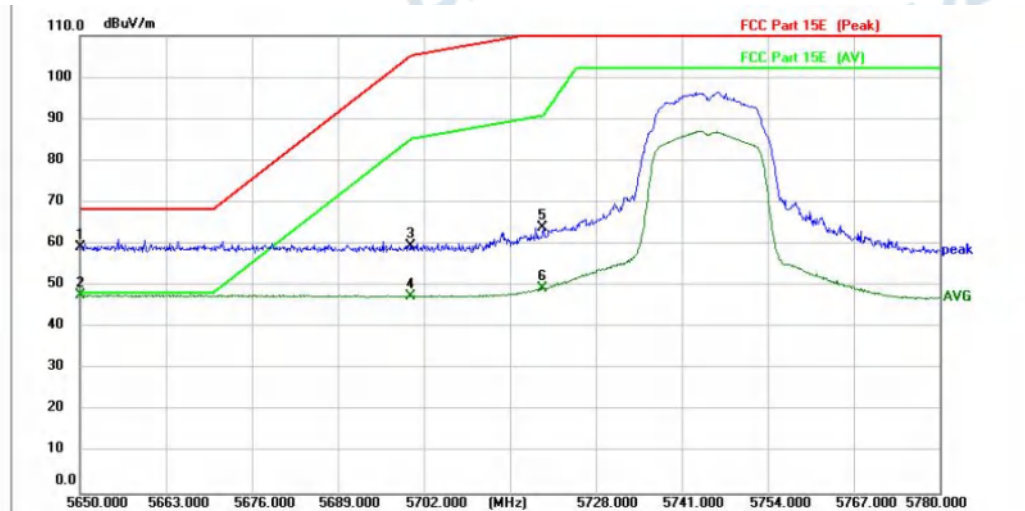
TM1 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: H



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

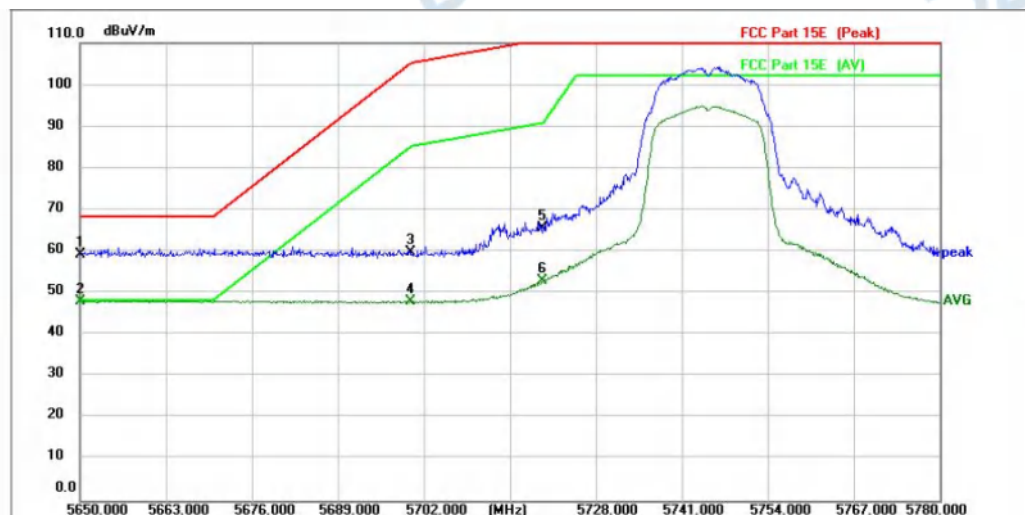


TM1 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: L



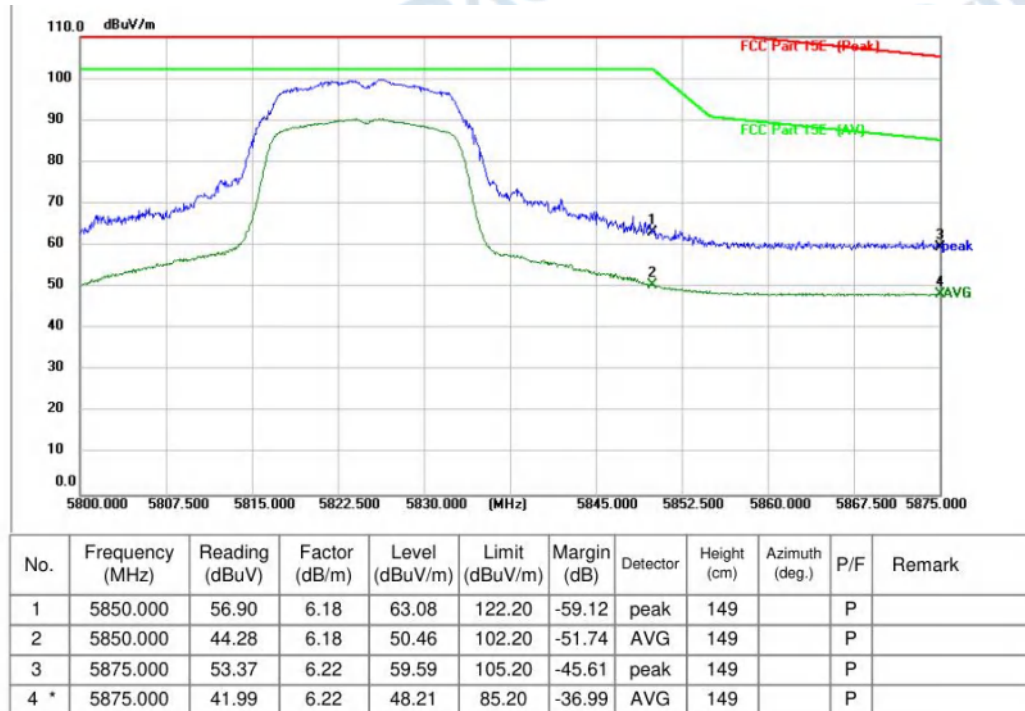
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5650.000	53.55	5.74	59.29	68.20	-8.91	peak	149		P	
2 *	5650.000	41.90	5.74	47.64	48.20	-0.56	AVG	149		P	
3	5700.000	53.65	5.85	59.50	105.20	-45.70	peak	149		P	
4	5700.000	41.53	5.85	47.38	85.20	-37.82	AVG	149		P	
5	5720.000	58.01	5.89	63.90	110.80	-46.90	peak	149		P	
6	5720.000	43.39	5.89	49.28	90.80	-41.52	AVG	149		P	

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

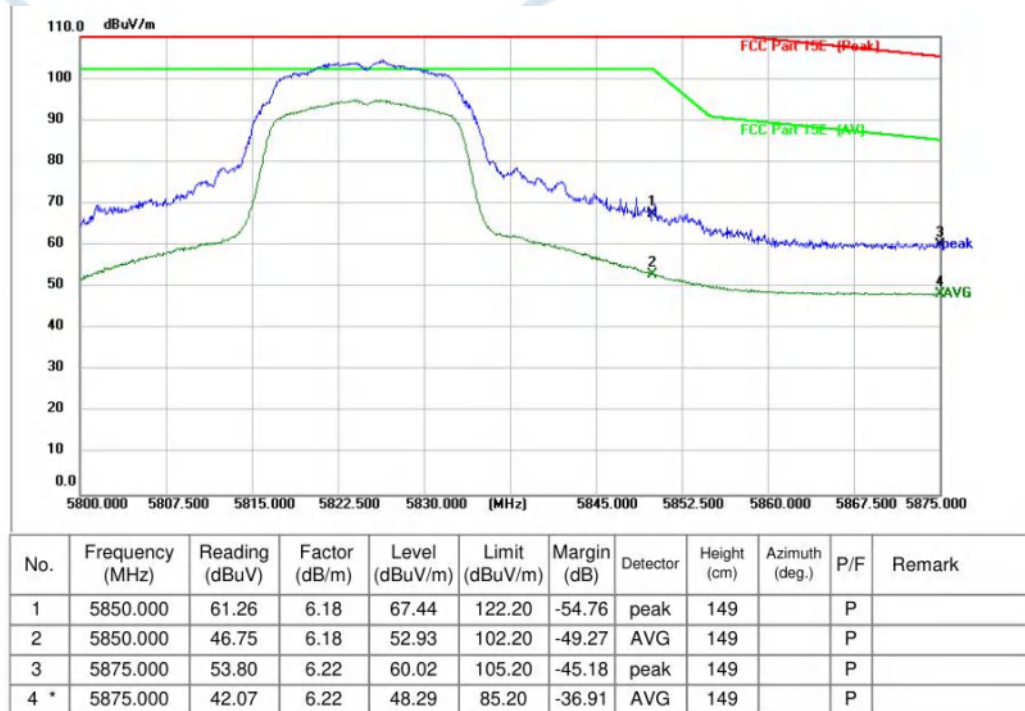


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5650.000	53.29	6.09	59.38	68.20	-8.82	peak	149		P	
2 *	5650.000	41.77	6.09	47.86	48.20	-0.34	AVG	149		P	
3	5700.000	53.51	6.19	59.70	105.20	-45.50	peak	149		P	
4	5700.000	41.88	6.19	48.07	85.20	-37.13	AVG	149		P	
5	5720.000	59.30	6.23	65.53	110.80	-45.27	peak	149		P	
6	5720.000	46.61	6.23	52.84	90.80	-37.96	AVG	149		P	

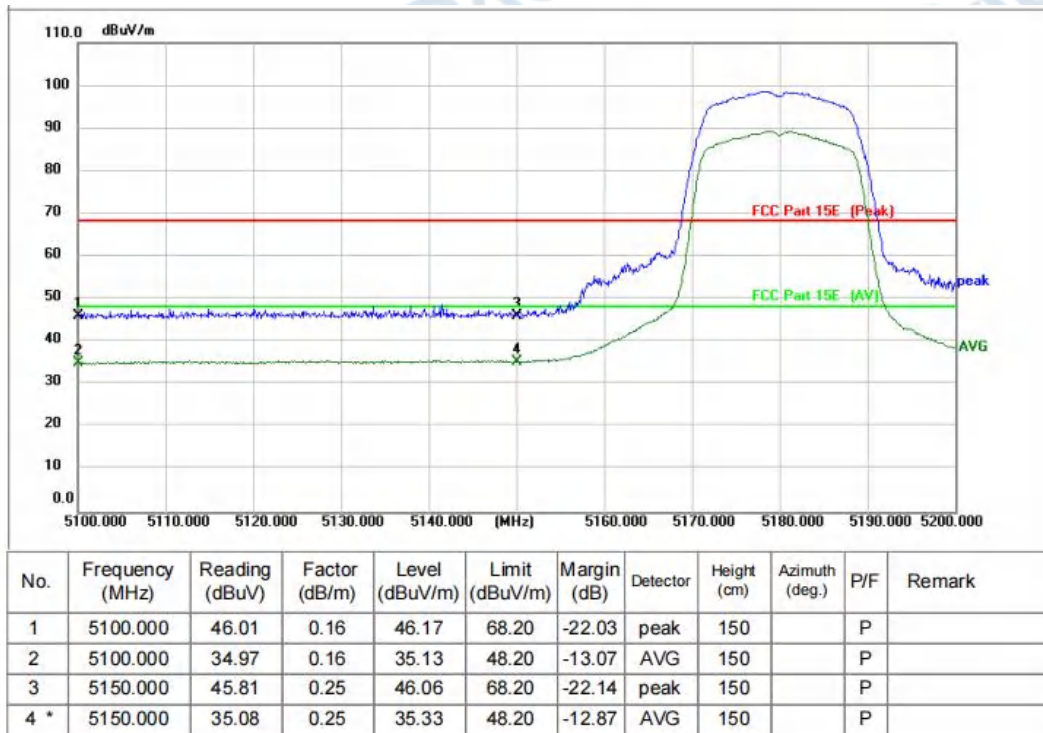
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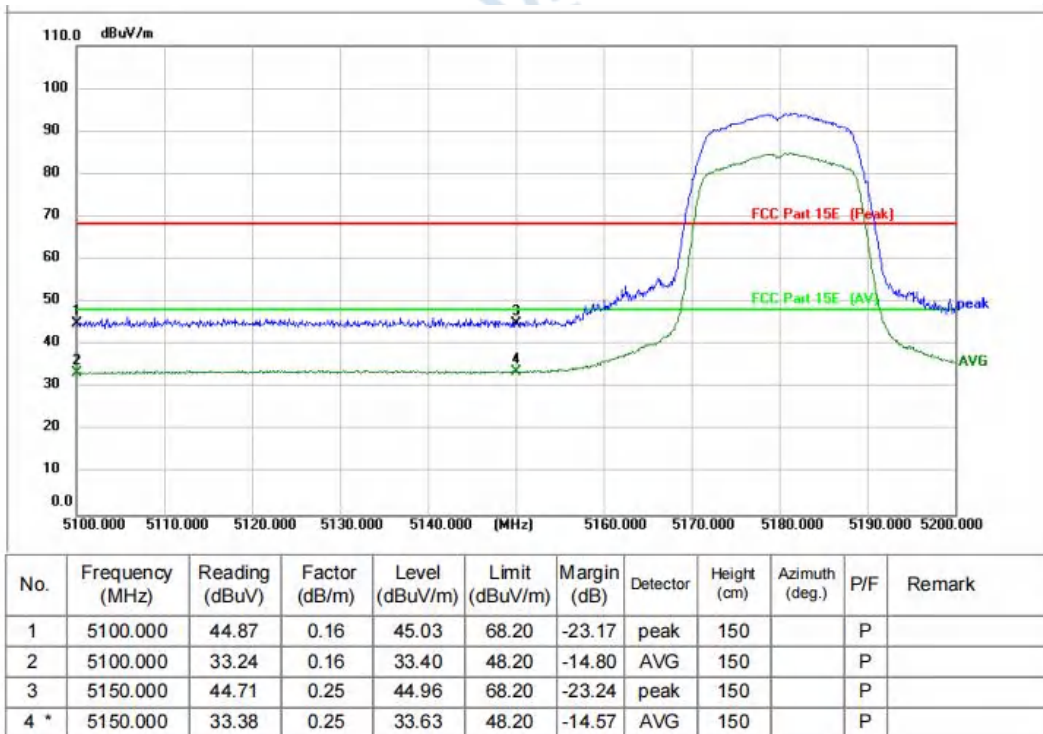
TM1 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: H



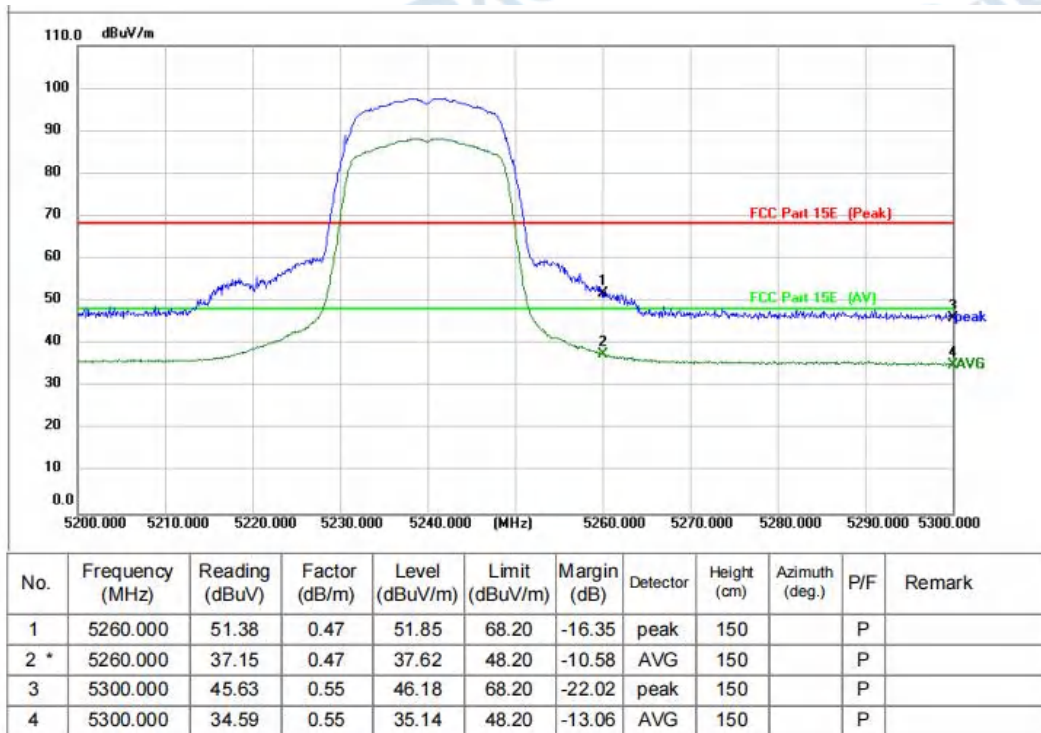
TM3 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: L



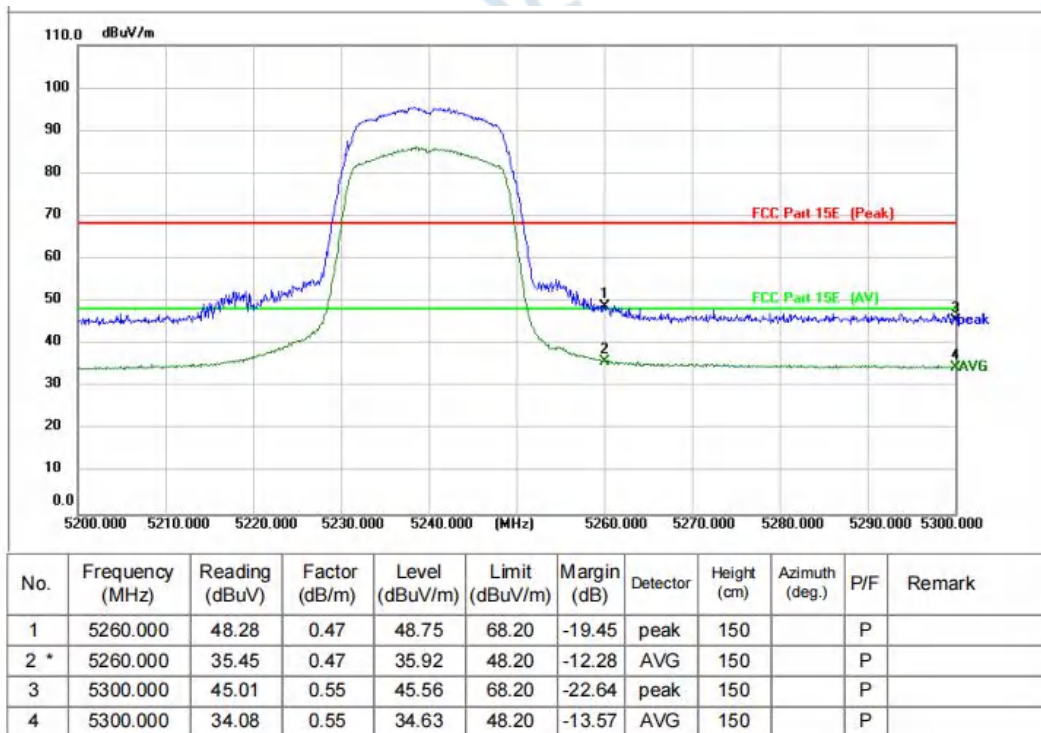
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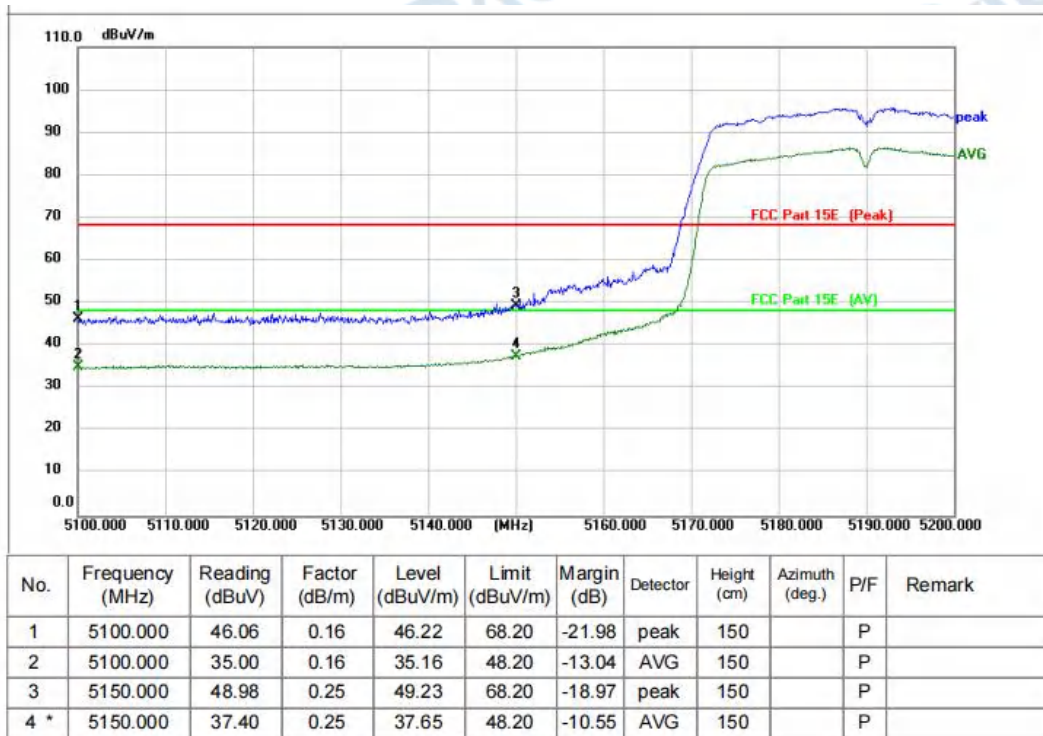
TM3 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: H



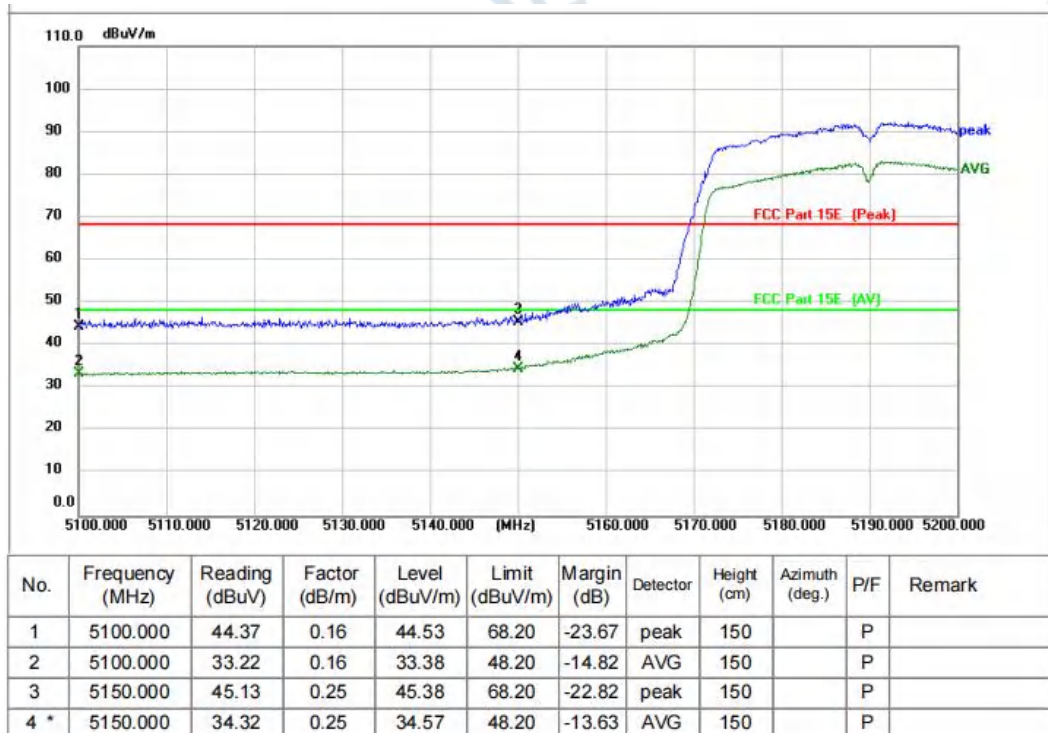
TM3 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: H



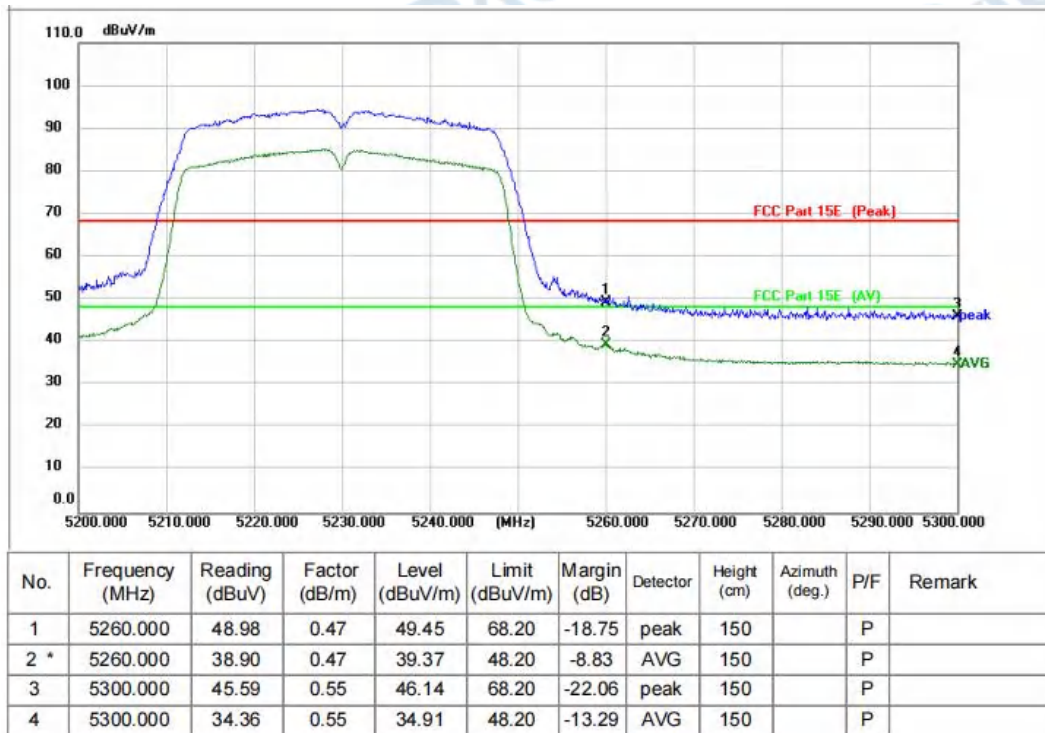
TM3 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 40 / CH: L



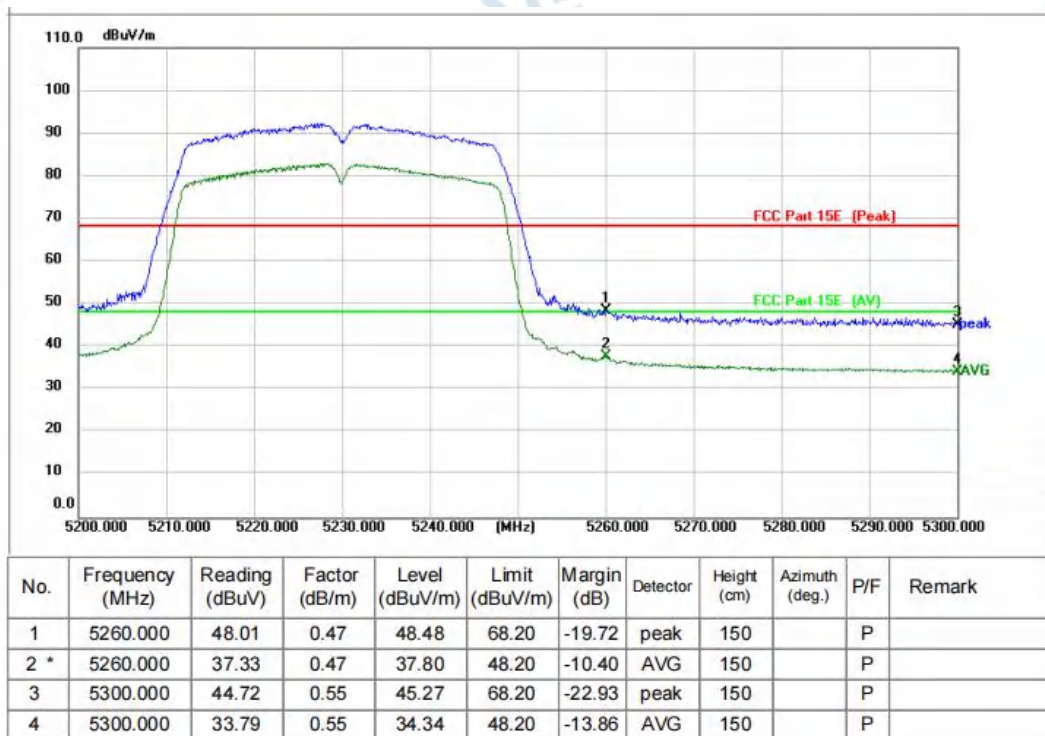
TM3 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 40 / CH: L



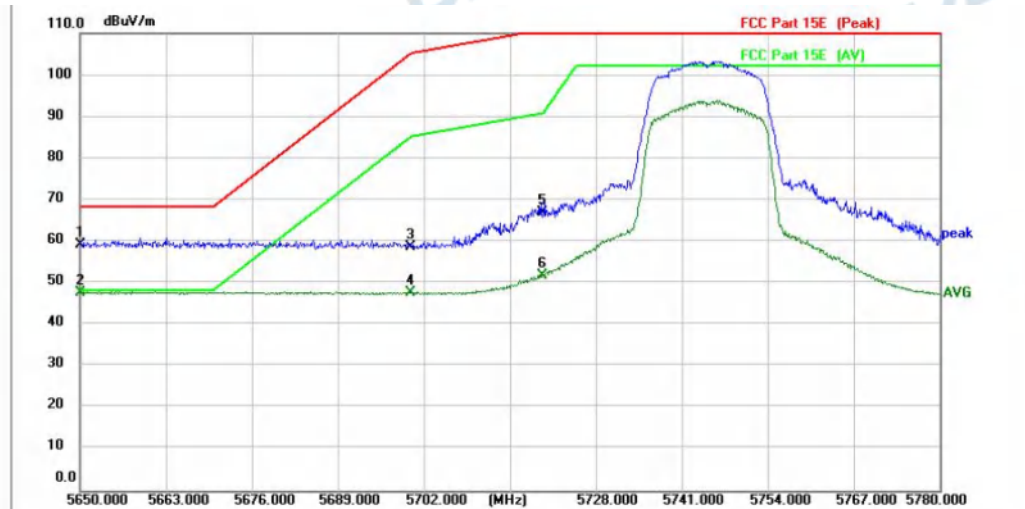
TM3 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 40 / CH: H



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

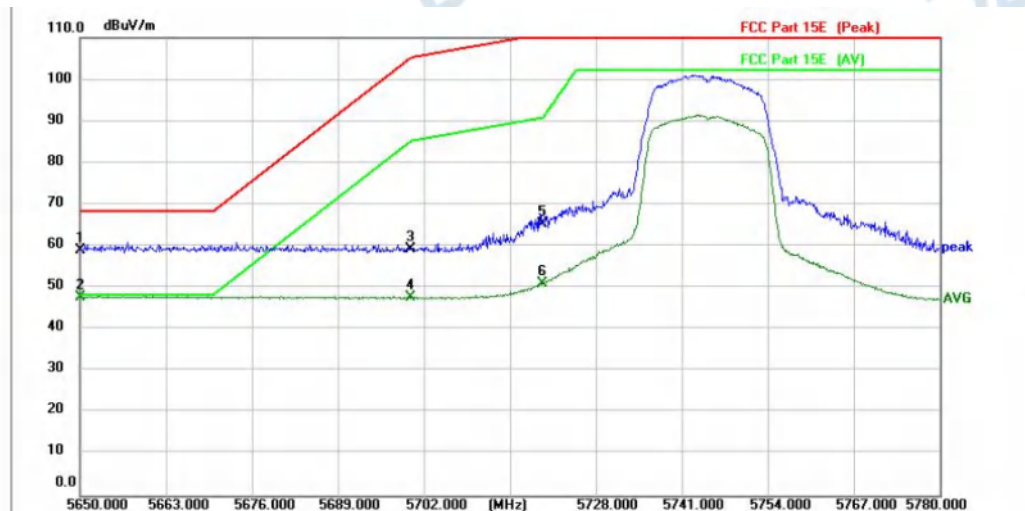


TM3 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: L



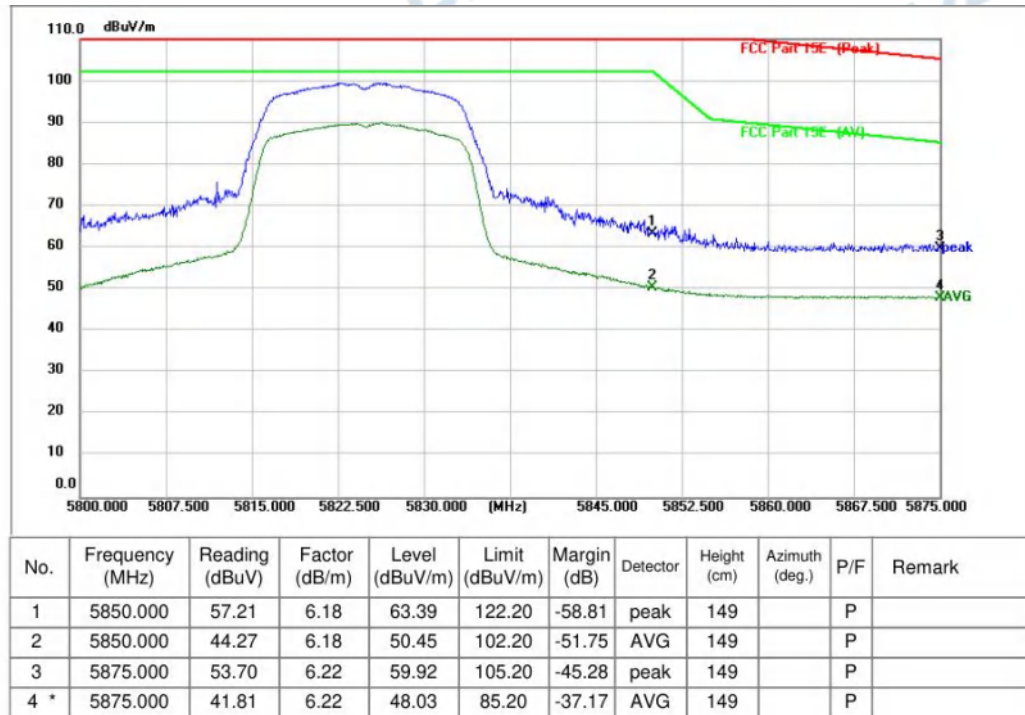
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5650.000	53.59	5.74	59.33	68.20	-8.87	peak	149		P	
2 *	5650.000	42.10	5.74	47.84	48.20	-0.36	AVG	149		P	
3	5700.000	52.90	5.85	58.75	105.20	-46.45	peak	149		P	
4	5700.000	41.93	5.85	47.78	85.20	-37.42	AVG	149		P	
5	5720.000	61.09	5.89	66.98	110.80	-43.82	peak	149		P	
6	5720.000	46.02	5.89	51.91	90.80	-38.89	AVG	149		P	

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

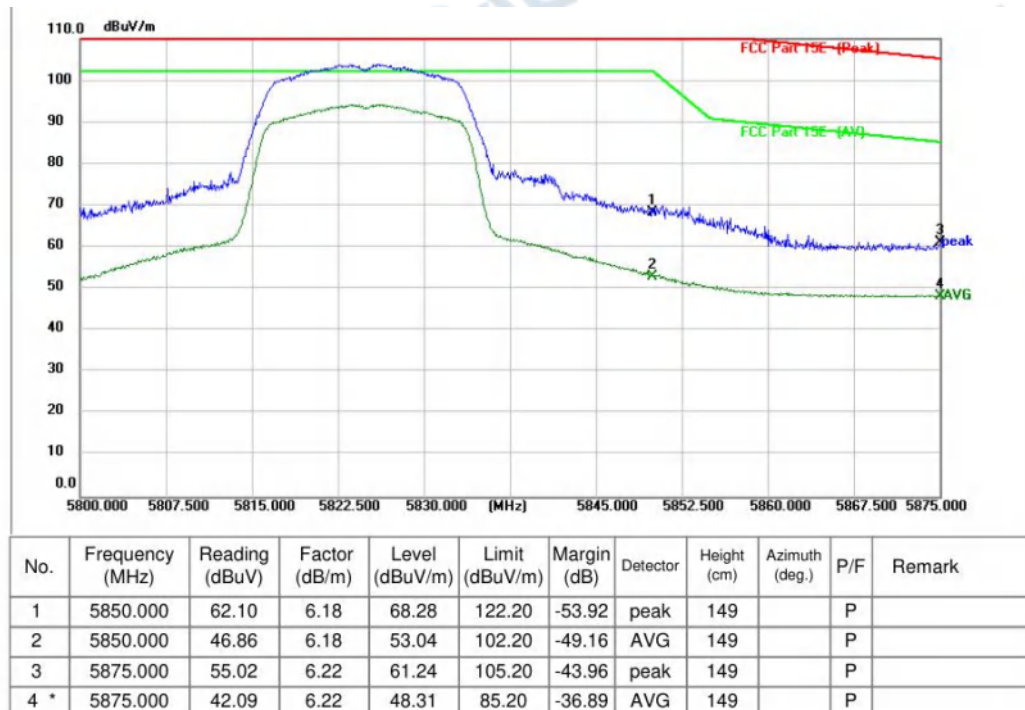


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5650.000	53.20	5.74	58.94	68.20	-9.26	peak	149		P	
2 *	5650.000	42.05	5.74	47.79	48.20	-0.41	AVG	149		P	
3	5700.000	53.45	5.85	59.30	105.20	-45.90	peak	149		P	
4	5700.000	41.85	5.85	47.70	85.20	-37.50	AVG	149		P	
5	5720.000	59.34	5.89	65.23	110.80	-45.57	peak	149		P	
6	5720.000	45.06	5.89	50.95	90.80	-39.85	AVG	149		P	

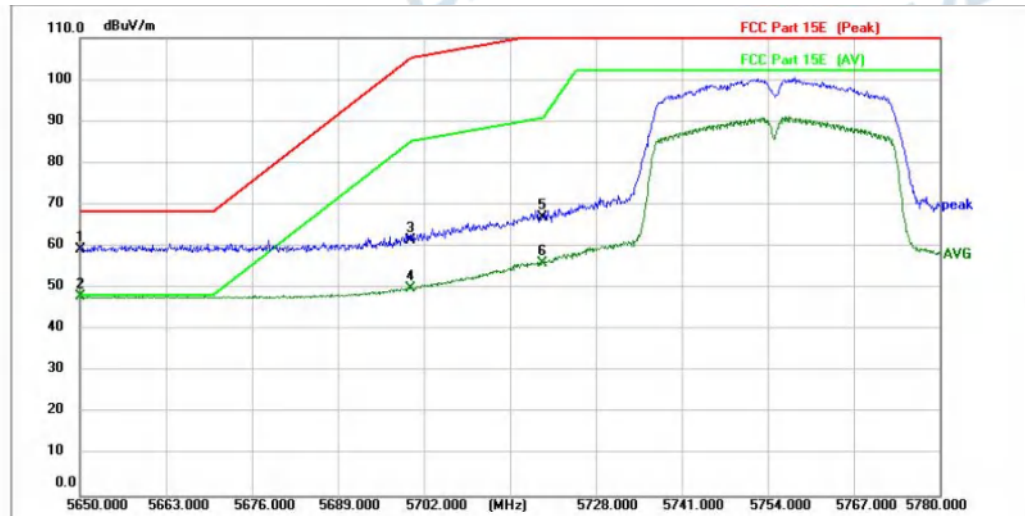
TM3 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: H



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

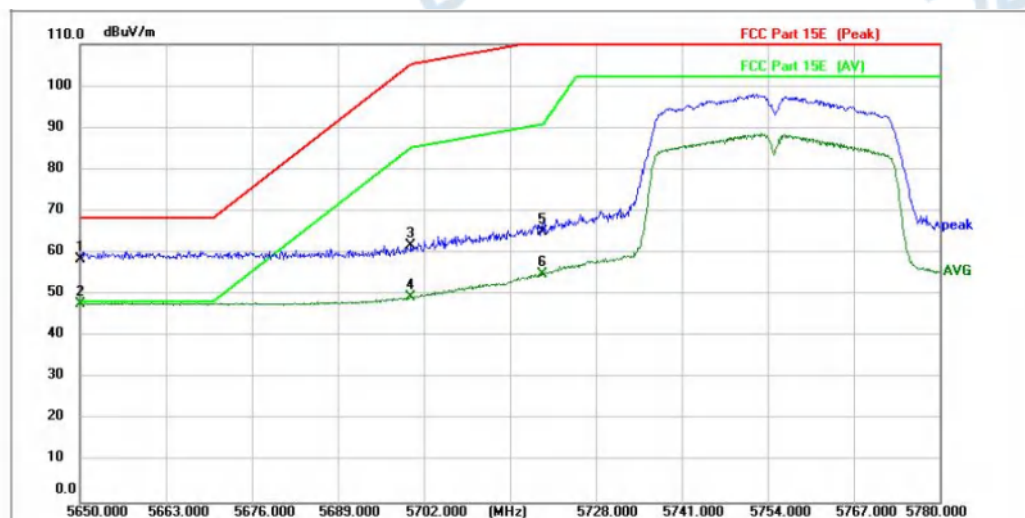


TM3 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 40 / CH: L



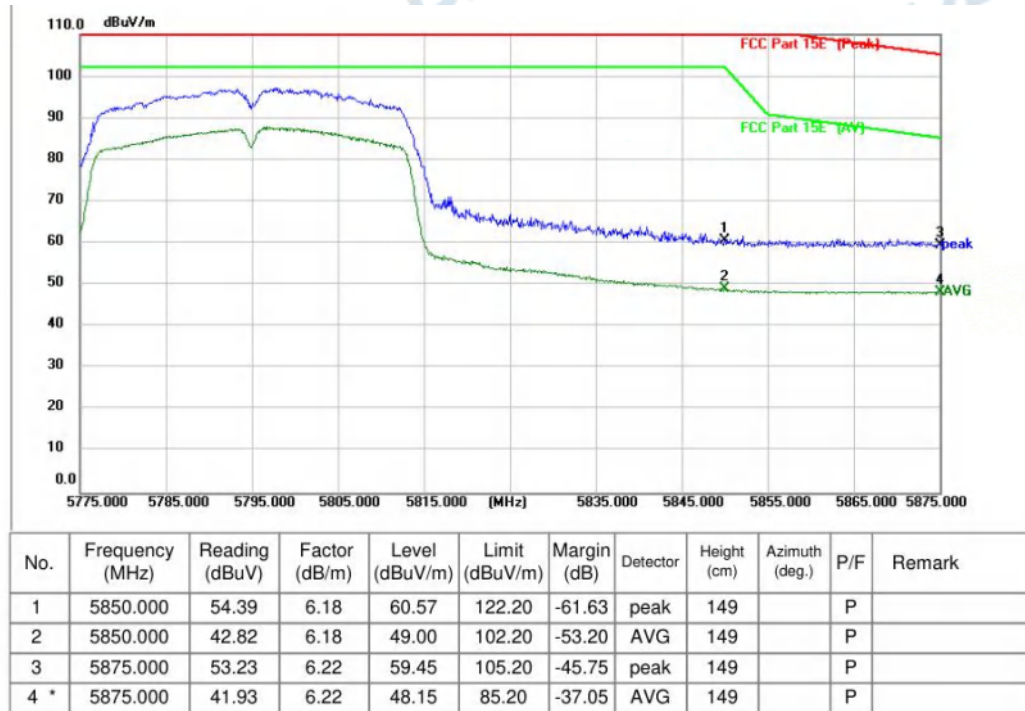
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5650.000	53.56	5.74	59.30	68.20	-8.90	peak	149		P	
2 *	5650.000	42.23	5.74	47.97	48.20	-0.23	AVG	149		P	
3	5700.000	55.65	5.85	61.50	105.20	-43.70	peak	149		P	
4	5700.000	44.03	5.85	49.88	85.20	-35.32	AVG	149		P	
5	5720.000	60.95	5.89	66.84	110.80	-43.96	peak	149		P	
6	5720.000	50.08	5.89	55.97	90.80	-34.83	AVG	149		P	

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

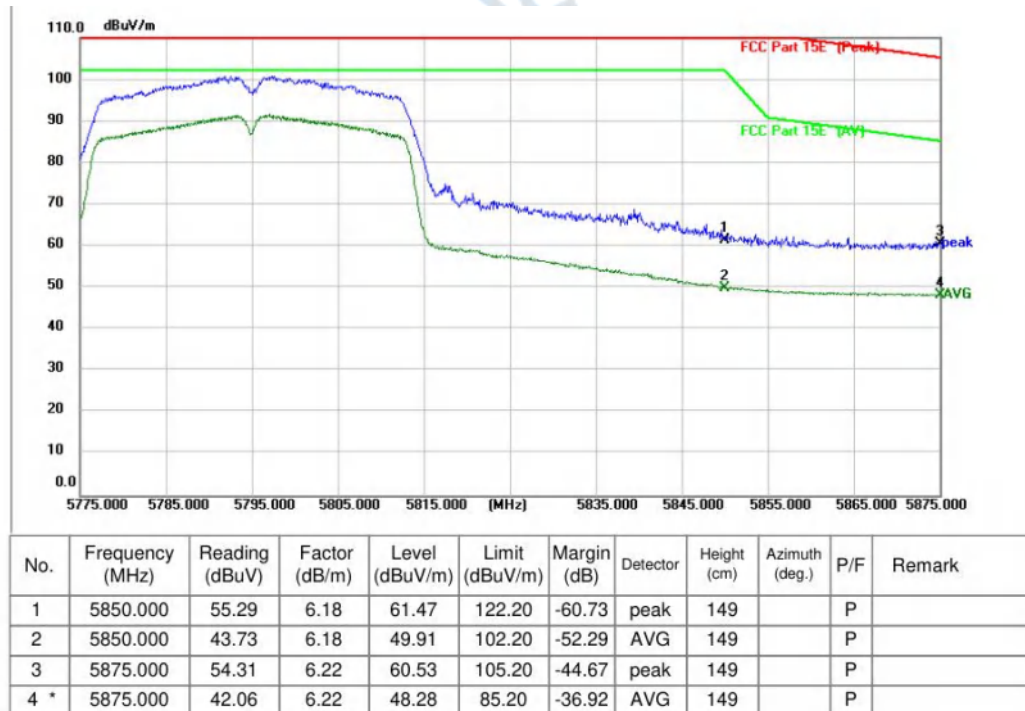


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5650.000	52.81	5.74	58.55	68.20	-9.65	peak	149		P	
2 *	5650.000	42.01	5.74	47.75	48.20	-0.45	AVG	149		P	
3	5700.000	55.89	5.85	61.74	105.20	-43.46	peak	149		P	
4	5700.000	43.46	5.85	49.31	85.20	-35.89	AVG	149		P	
5	5720.000	59.25	5.89	65.14	110.80	-45.66	peak	149		P	
6	5720.000	49.05	5.89	54.94	90.80	-35.86	AVG	149		P	

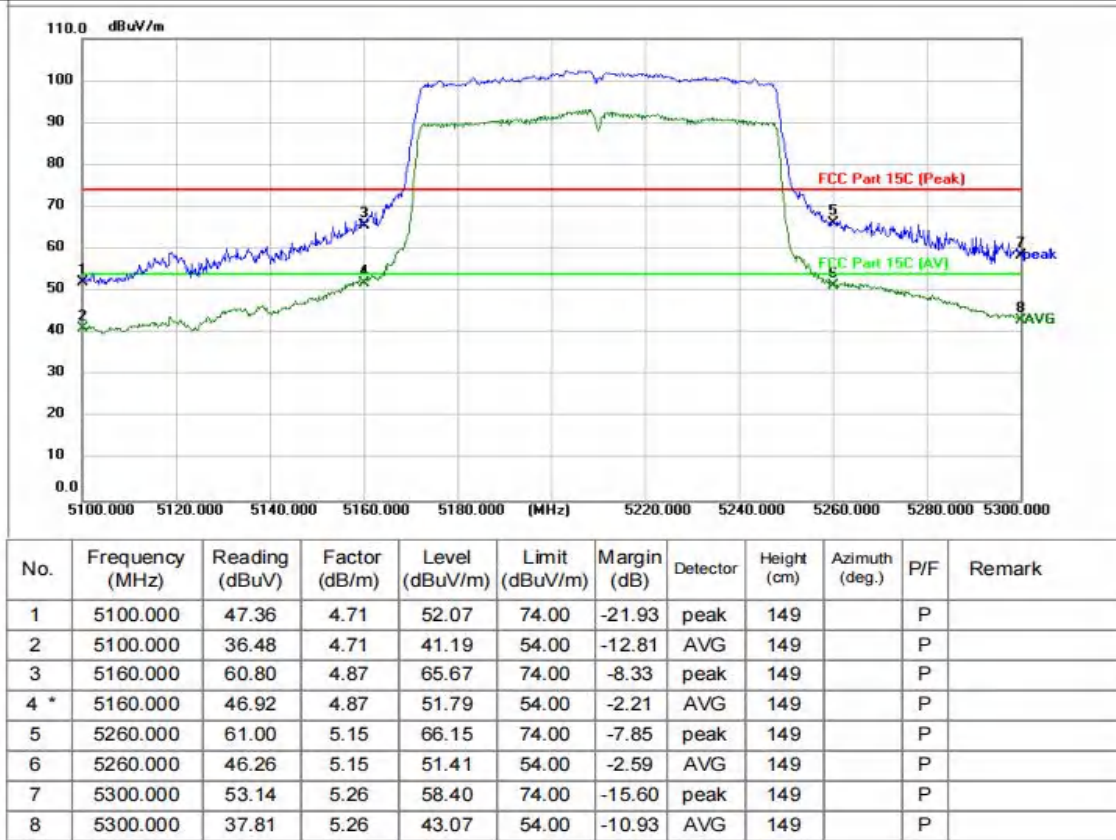
TM3 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 40 / CH: H



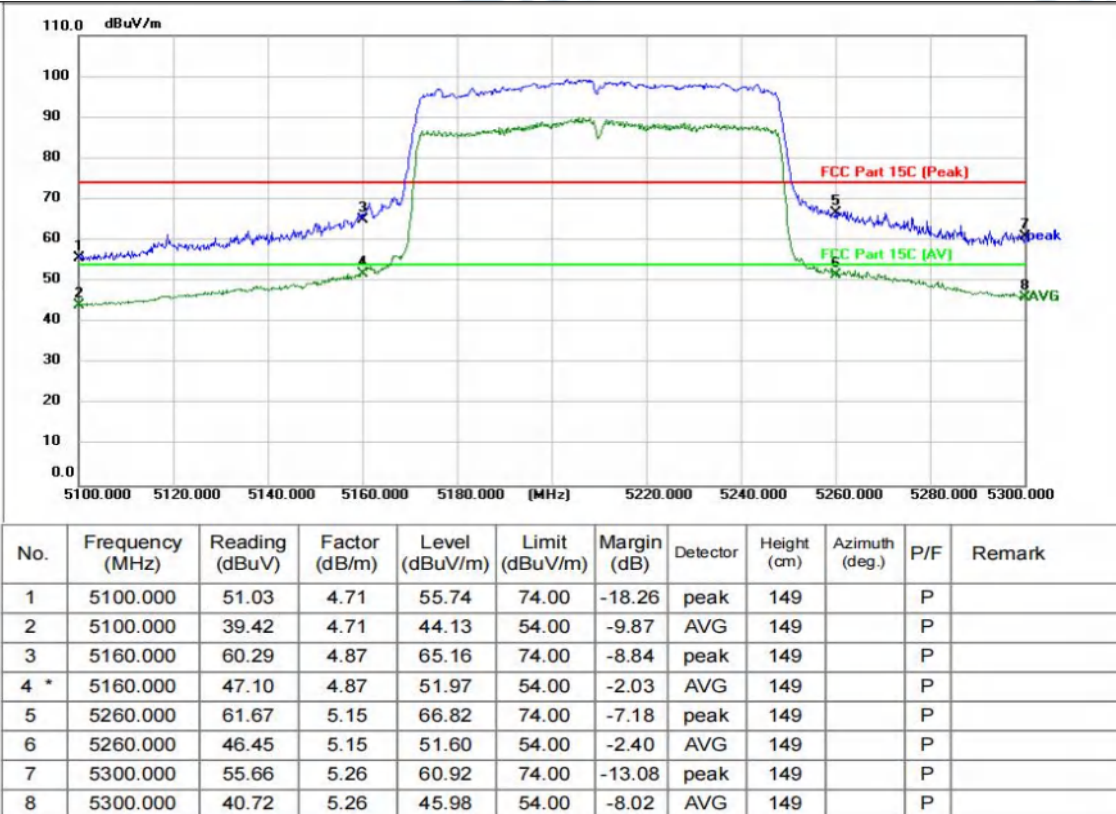
TM3 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 40 / CH: H



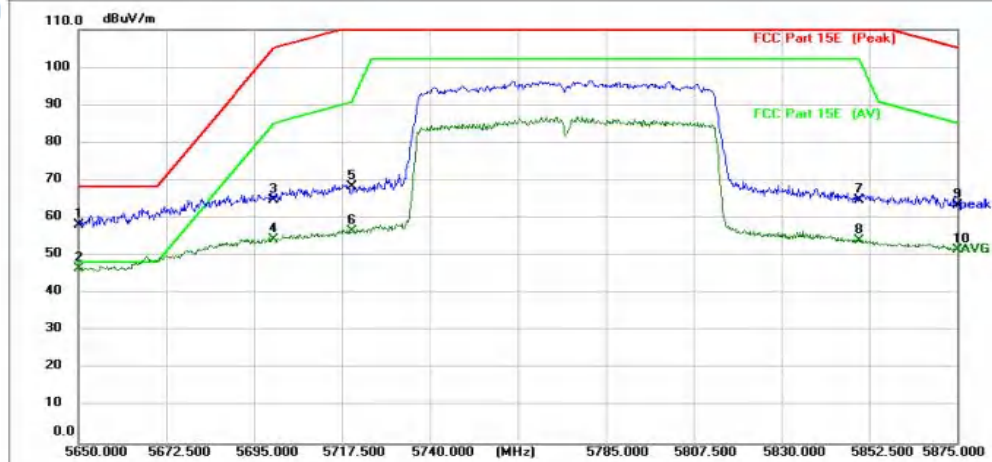
TM3 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 80 / CH: M



TM3 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 80 / CH: M

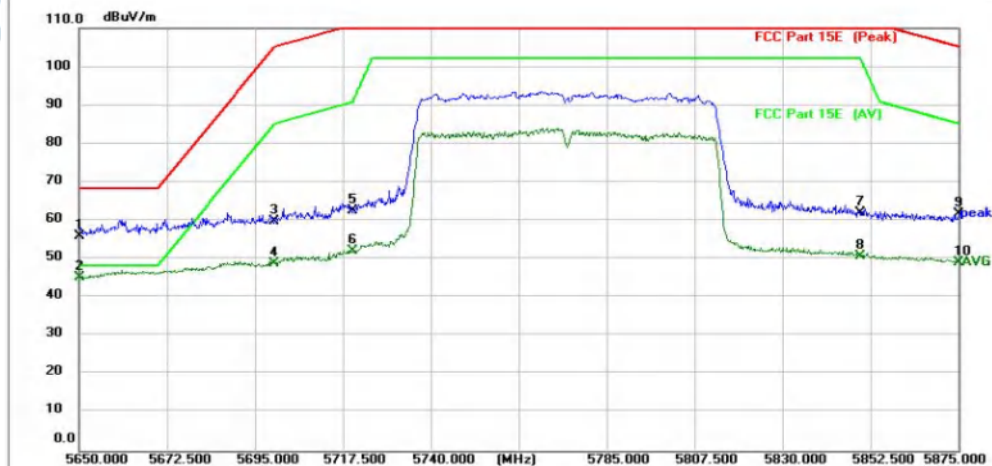


TM3 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 80 / CH: M



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	5650.000	52.48	5.74	58.22	68.20	-9.98	peak	149		P	
2 *	5650.000	40.95	5.74	46.69	48.20	-1.51	AVG	149		P	
3	5700.000	58.86	5.85	64.71	105.20	-40.49	peak	149		P	
4	5700.000	48.53	5.85	54.38	85.20	-30.82	AVG	149		P	
5	5720.000	62.41	5.89	68.30	110.80	-42.50	peak	149		P	
6	5720.000	50.64	5.89	56.53	90.80	-34.27	AVG	149		P	
7	5850.000	58.46	6.18	64.64	122.20	-57.56	peak	149		P	
8	5850.000	47.79	6.18	53.97	102.20	-48.23	AVG	149		P	
9	5875.000	57.18	6.22	63.40	105.20	-41.80	peak	149		P	
10	5875.000	45.38	6.22	51.60	85.20	-33.60	AVG	149		P	

TM3 / 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	5650.000	50.27	5.74	56.01	68.20	-12.19	peak	149		P	
2 *	5650.000	39.59	5.74	45.33	48.20	-2.87	AVG	149		P	
3	5700.000	54.04	5.85	59.89	105.20	-45.31	peak	149		P	
4	5700.000	42.97	5.85	48.82	85.20	-36.38	AVG	149		P	
5	5720.000	56.55	5.89	62.44	110.80	-48.36	peak	149		P	
6	5720.000	46.15	5.89	52.04	90.80	-38.76	AVG	149		P	
7	5850.000	55.96	6.18	62.14	122.20	-60.06	peak	149		P	
8	5850.000	44.53	6.18	50.71	102.20	-51.49	AVG	149		P	
9	5875.000	55.48	6.22	61.70	105.20	-43.50	peak	149		P	
10	5875.000	43.00	6.22	49.22	85.20	-35.98	AVG	149		P	

Remark: Margin = Level - Limit, Level = Test receiver reading + correction factor

The test software will only record the worst test angle and height, and only the worst case will be recorded in the test report.

3.6 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><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, 12.7.5																								
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:

- 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:

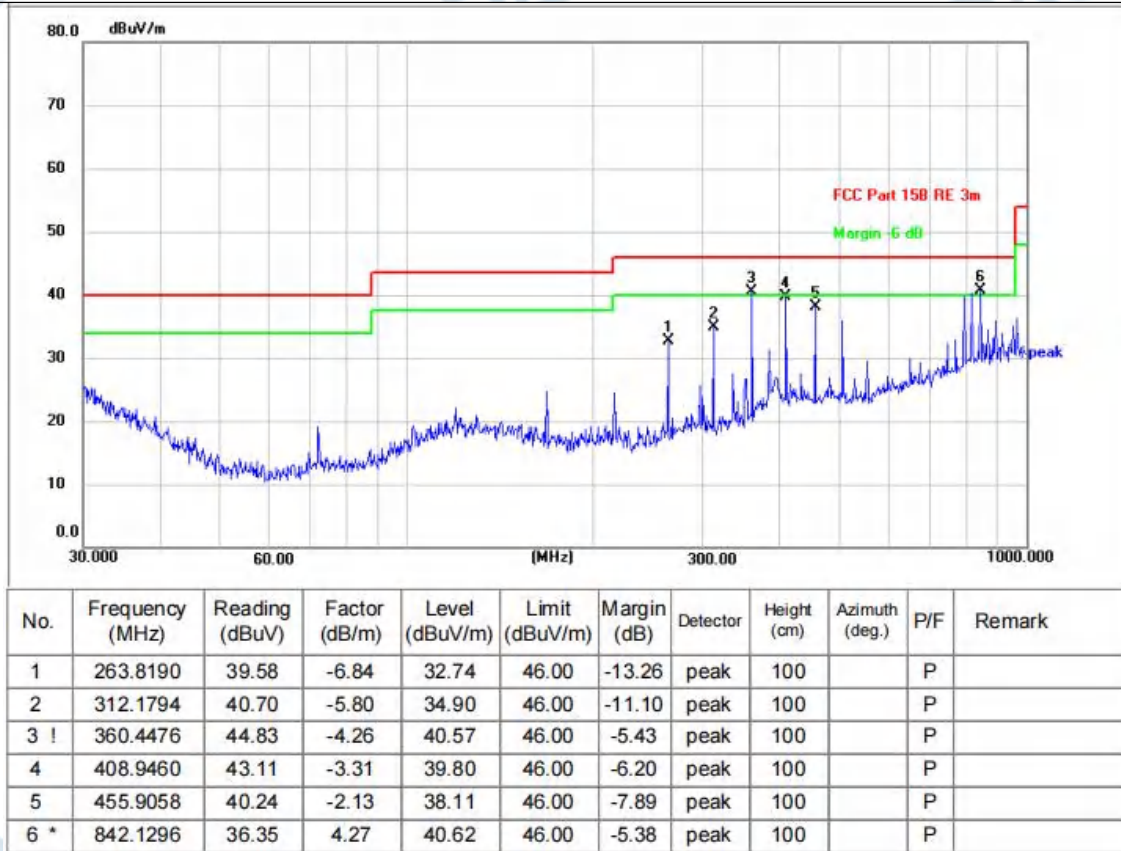
- Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 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.
- 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.

3.6.1 E.U.T. Operation:

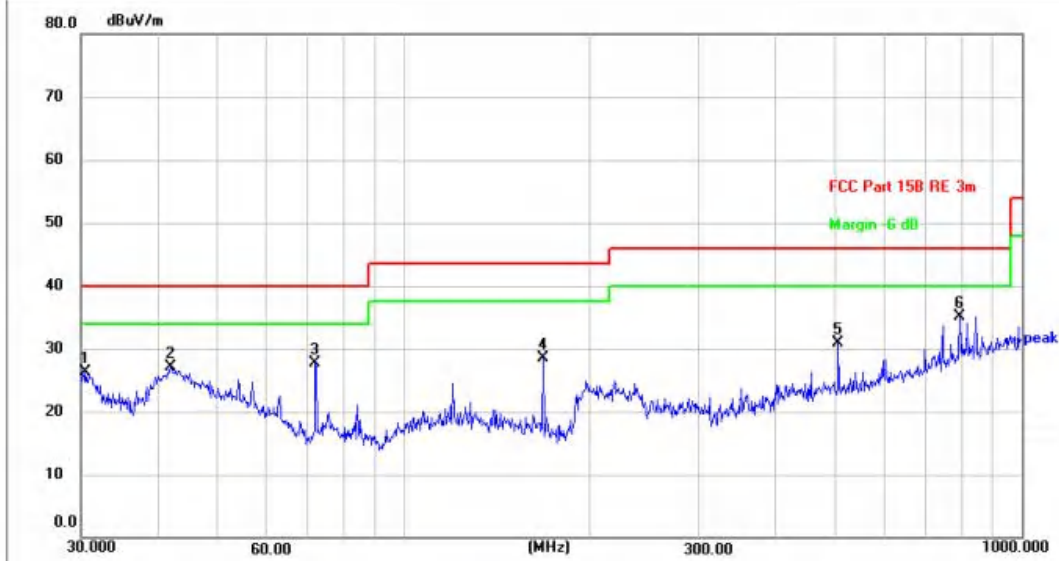
Operating Environment:					
Temperature:	23.7 °C	Humidity:	52 %	Atmospheric Pressure:	102 kPa
Pretest mode:	TM1, TM2, TM3				
Final test mode:	TM1				

3.6.2 Test Data:

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



TM1 / 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	30.5306	25.80	0.48	26.28	40.00	-13.72	peak	100		P	
2	41.8596	34.58	-7.49	27.09	40.00	-12.91	peak	100		P	
3	71.8320	39.25	-11.54	27.71	40.00	-12.29	peak	100		P	
4	167.8243	36.01	-7.49	28.52	43.50	-14.98	peak	100		P	
5	504.7062	32.14	-1.23	30.91	46.00	-15.09	peak	100		P	
6 *	793.3960	31.38	3.82	35.20	46.00	-10.80	peak	100		P	

Remark: Margin = Level - Limit, Level = Test receiver reading + correction factor

The test software will only record the worst test angle and height, and only the worst case will be recorded in the test report.

3.7 Undesirable emission limits (above 1GHz)

Test Requirement:	47 CFR Part 15.407(b)(1) 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 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 border="1"> <thead> <tr> <th>MHz</th><th>MHz</th><th>MHz</th><th>GHz</th></tr> </thead> <tbody> <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>¹ 0.495-0.505</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> </tbody> </table> ¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. ² Above 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 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			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																																																																											

radiator shall not exceed the field strength levels specified in the following table:		
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
** 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.		
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. - 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.

3.7.1 E.U.T. Operation:

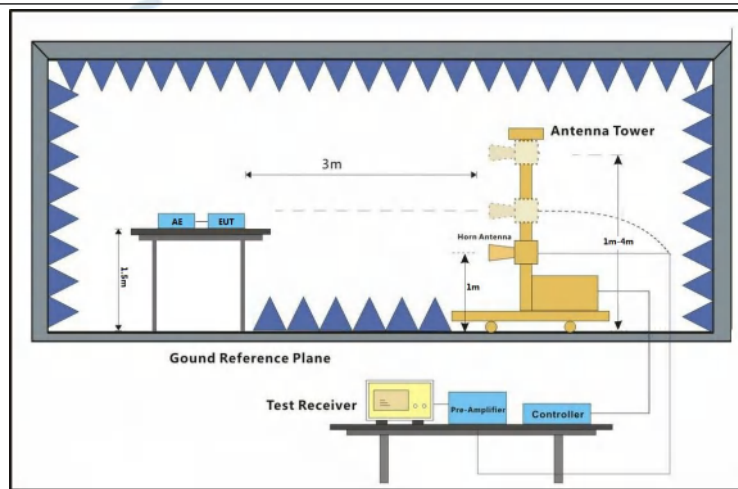
Operating Environment:

Temperature:	23.7 °C	Humidity:	52 %	Atmospheric Pressure:	102 kPa
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Pretest mode:	TM1, TM2, TM3
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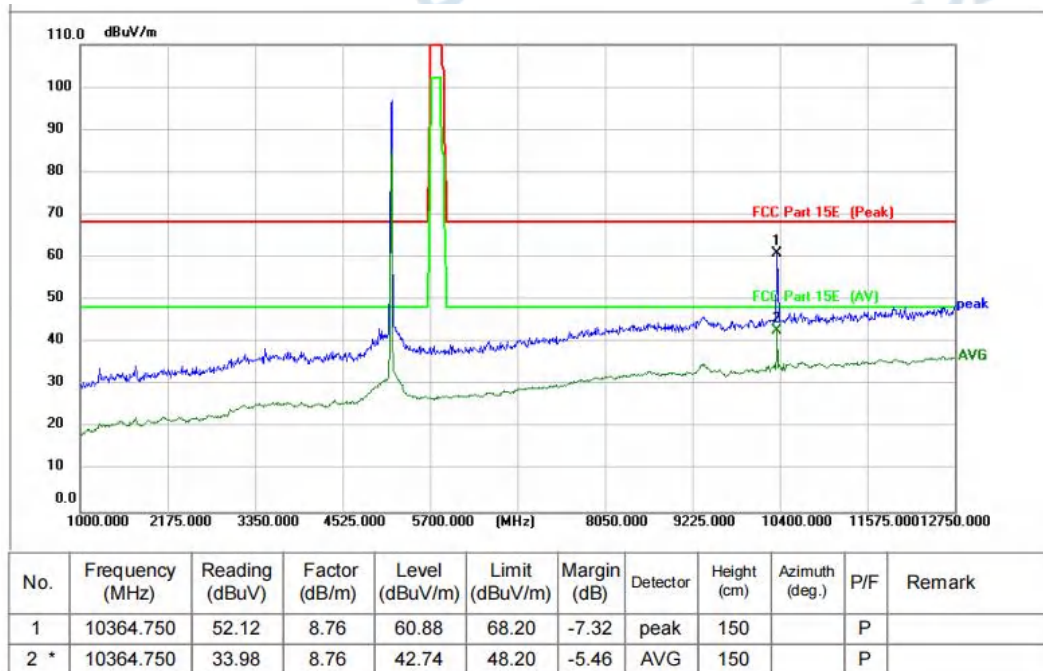
Final test mode:	TM1
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3.7.2 Test Setup Diagram:

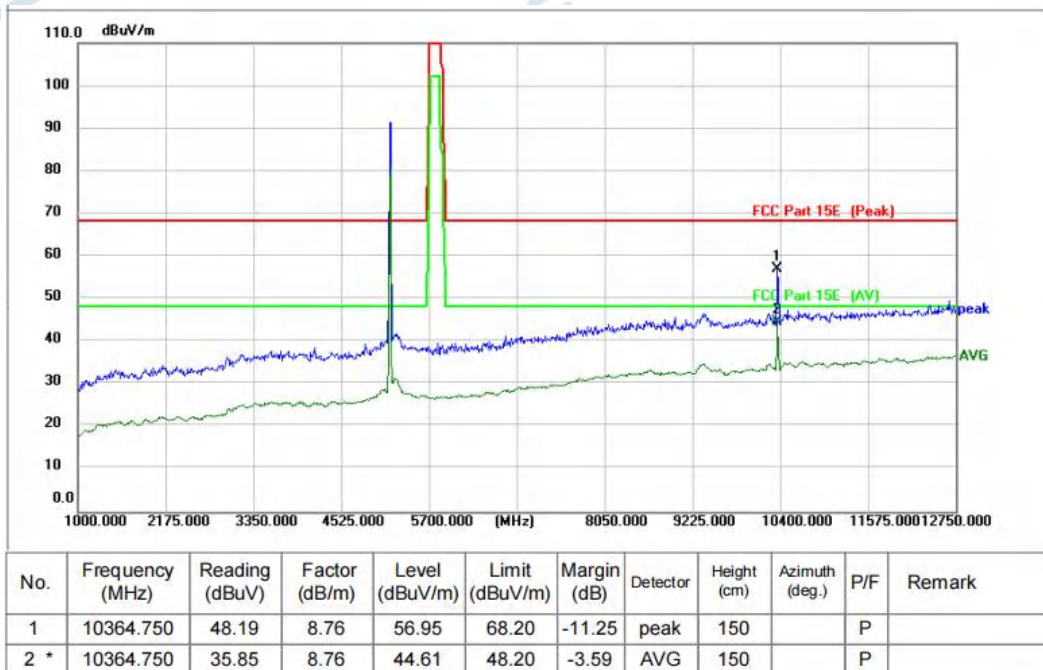


3.7.3 Test Data:

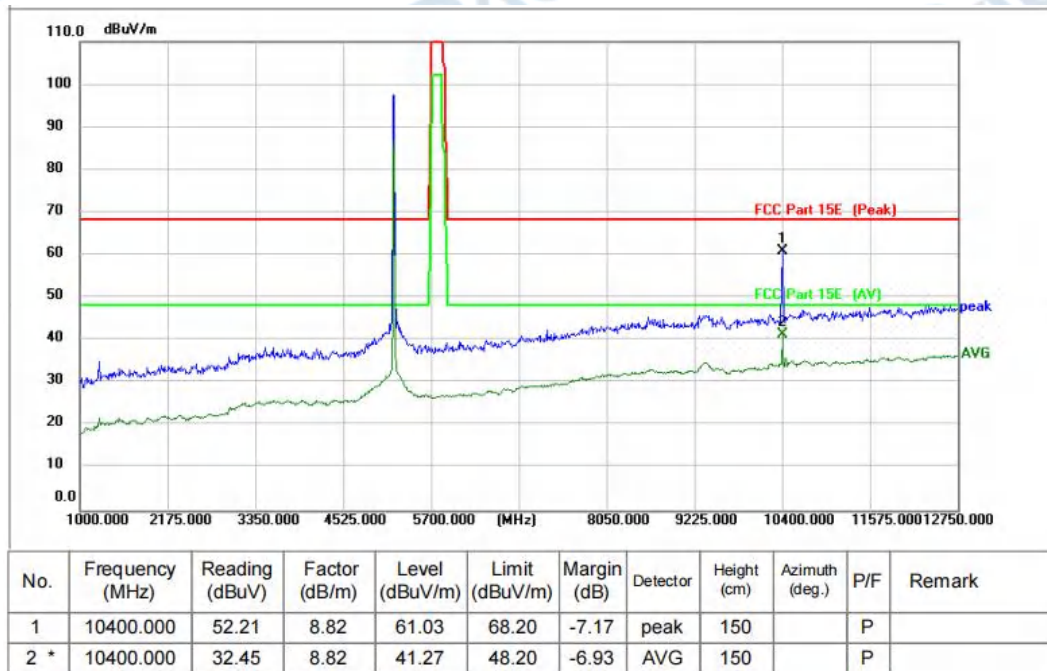
TM1 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: L



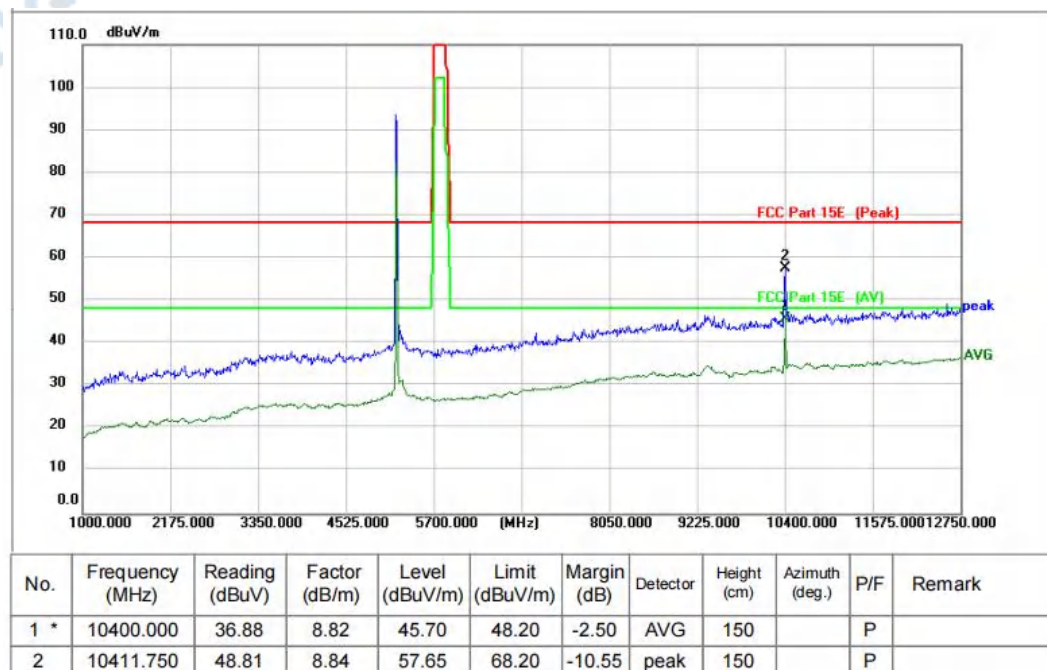
TM1 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: L



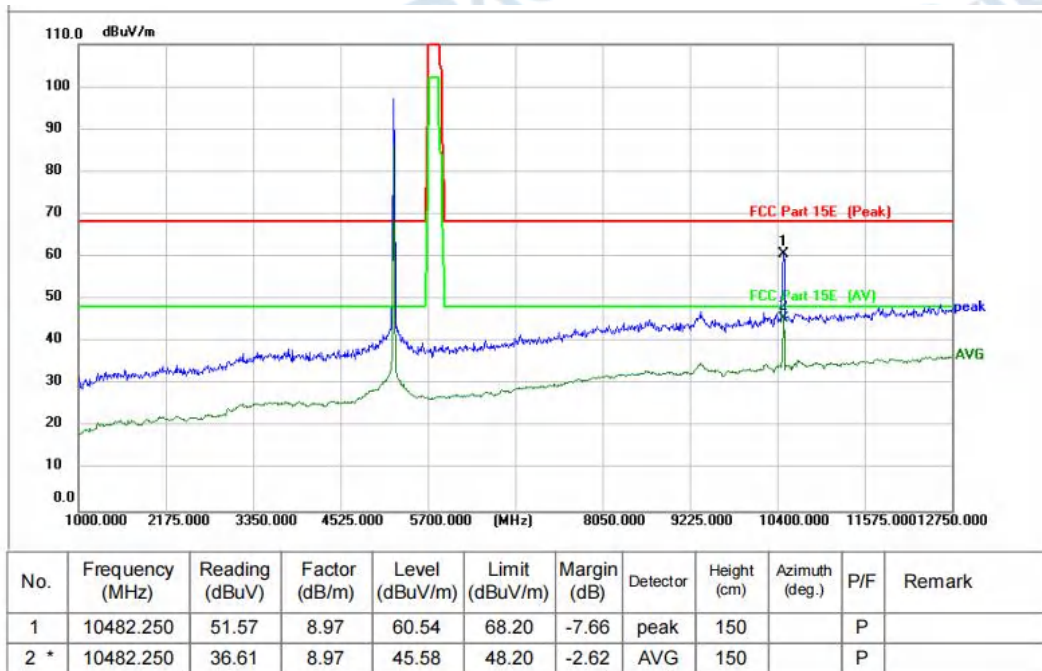
TM1 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: M



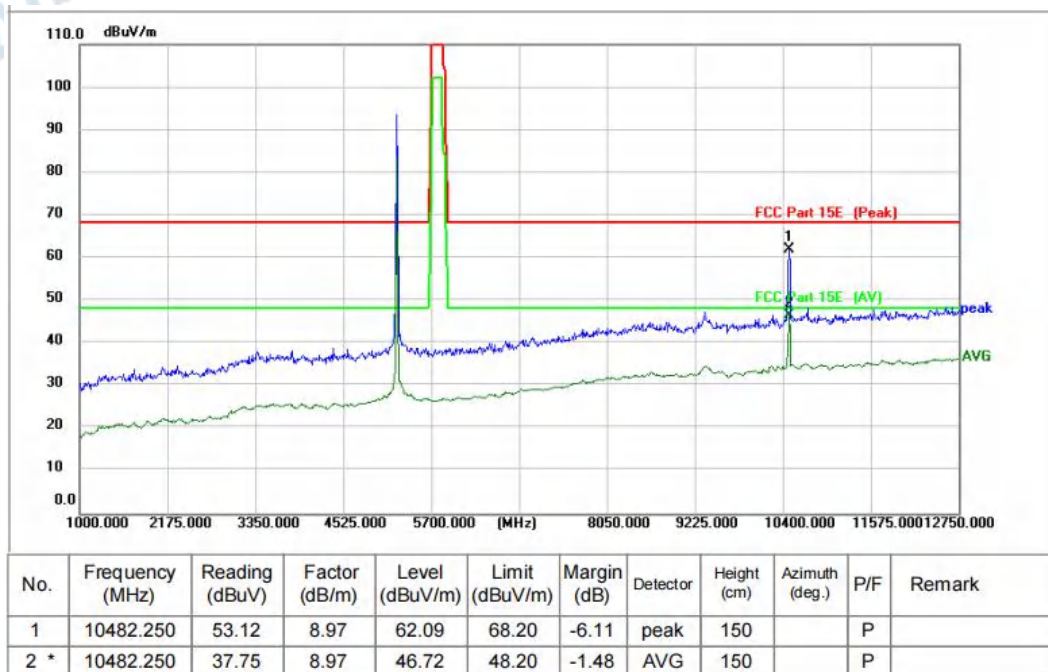
TM1 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: M



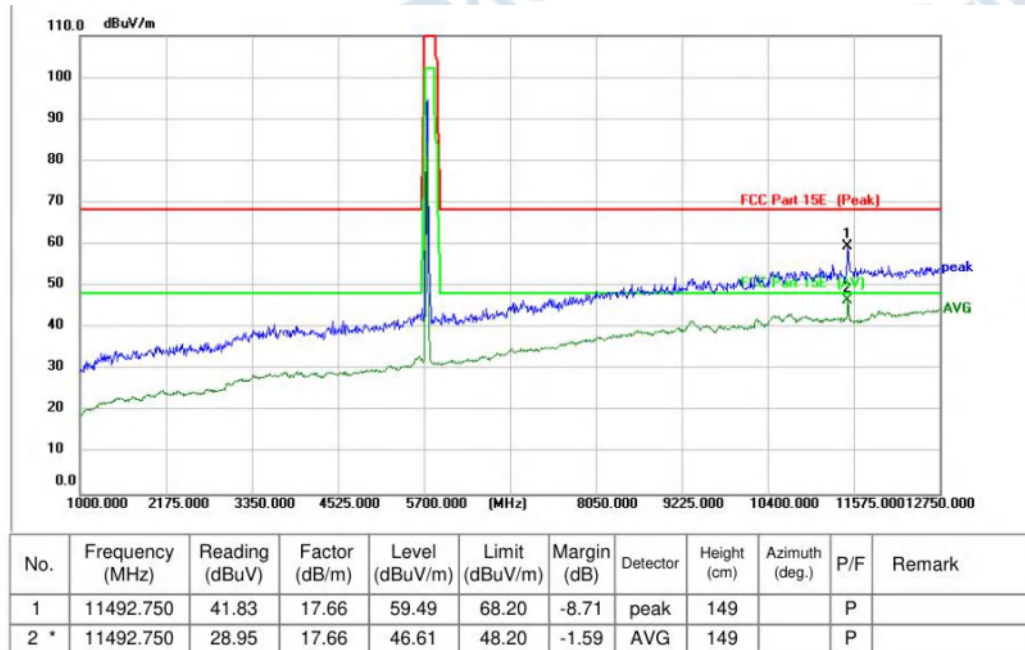
TM1 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: H



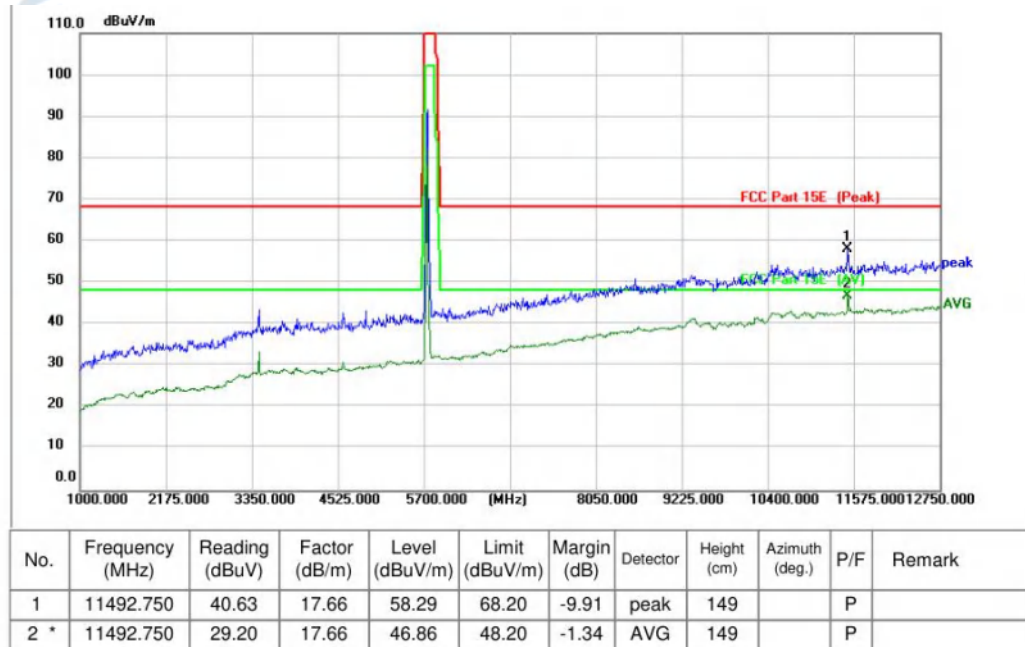
TM1 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: H



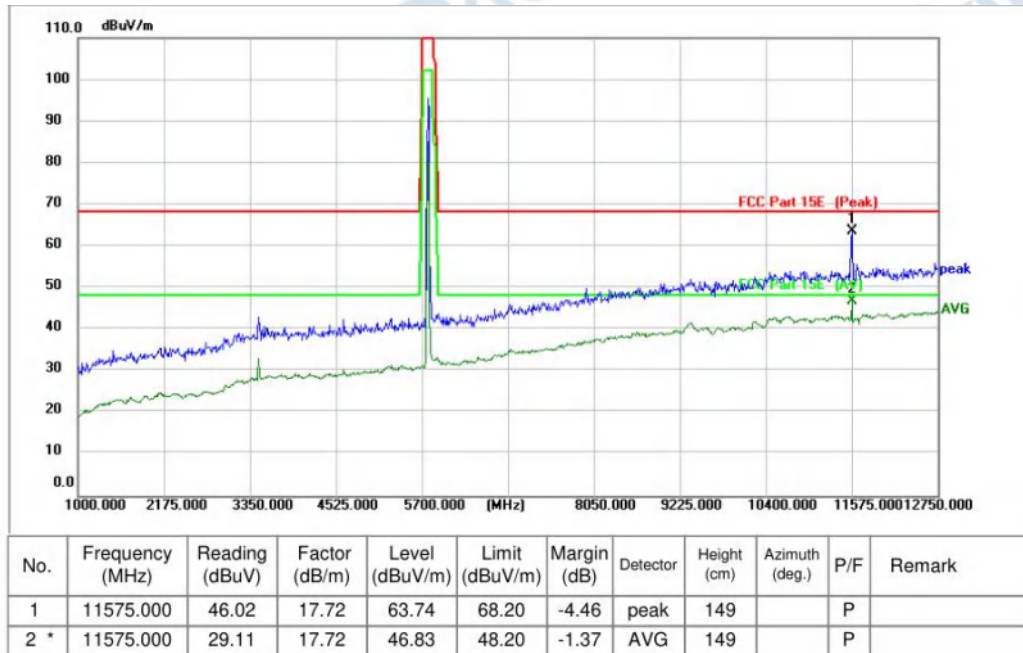
TM1 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: L



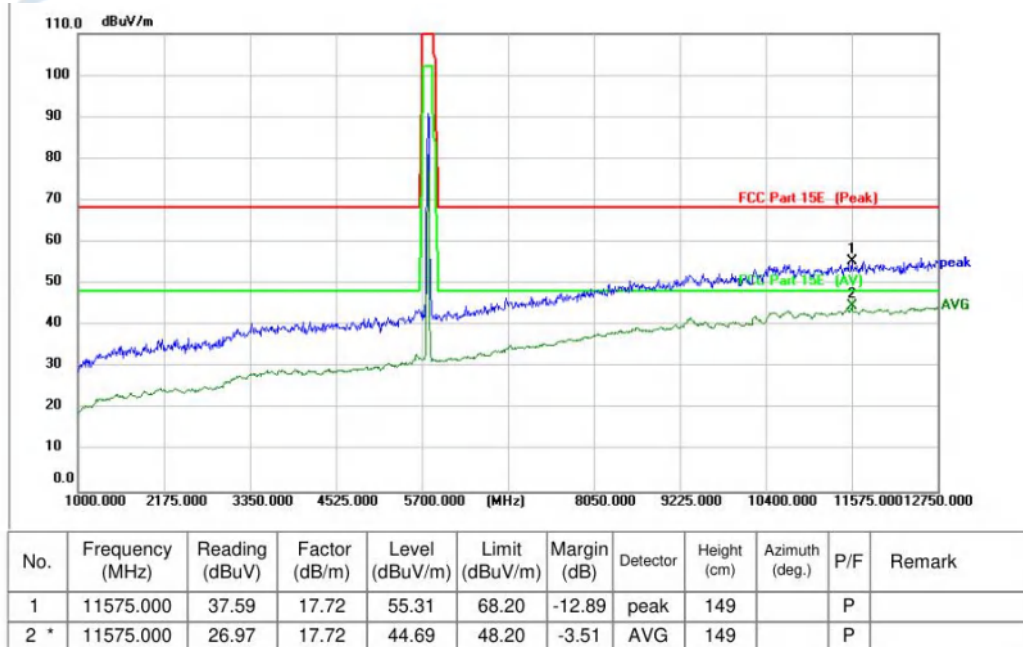
TM1 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: L



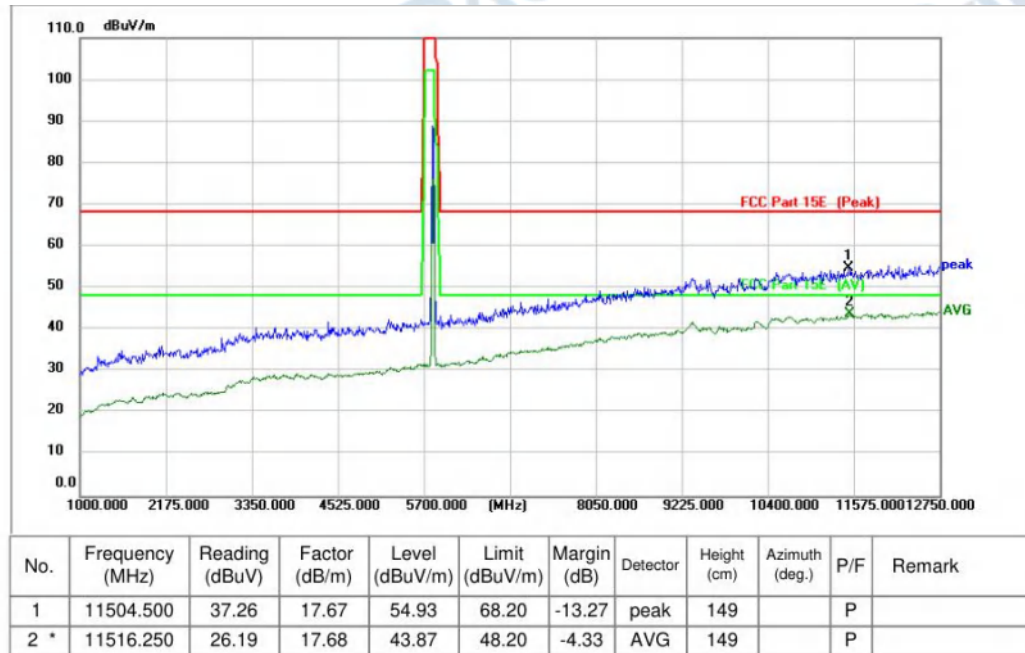
TM1 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: M



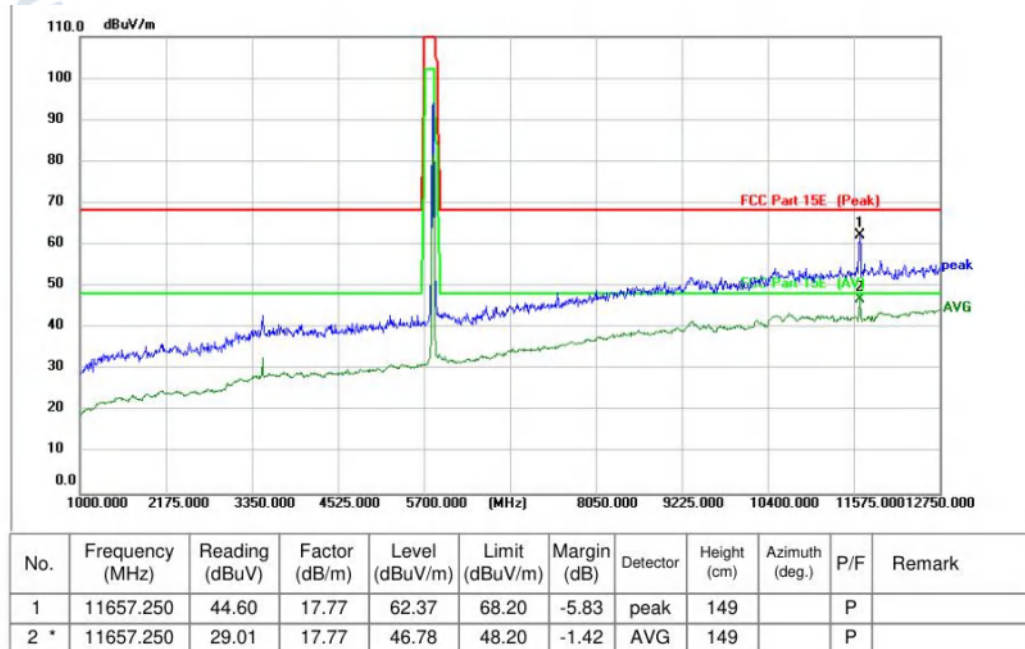
TM1 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: M



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



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



Remark: Margin=Level - Limit, Level=Test receiver reading + correction factor

The test software will only record the worst test angle and height, and only the worst case will be recorded in the test report.

4 TEST SETUP PHOTOS

Please Refer to DACE241030001RF001 for Details.

5 PHOTOS OF THE EUT

Please Refer to DACE241030001RF001 for Details.

Appendix-5.2G

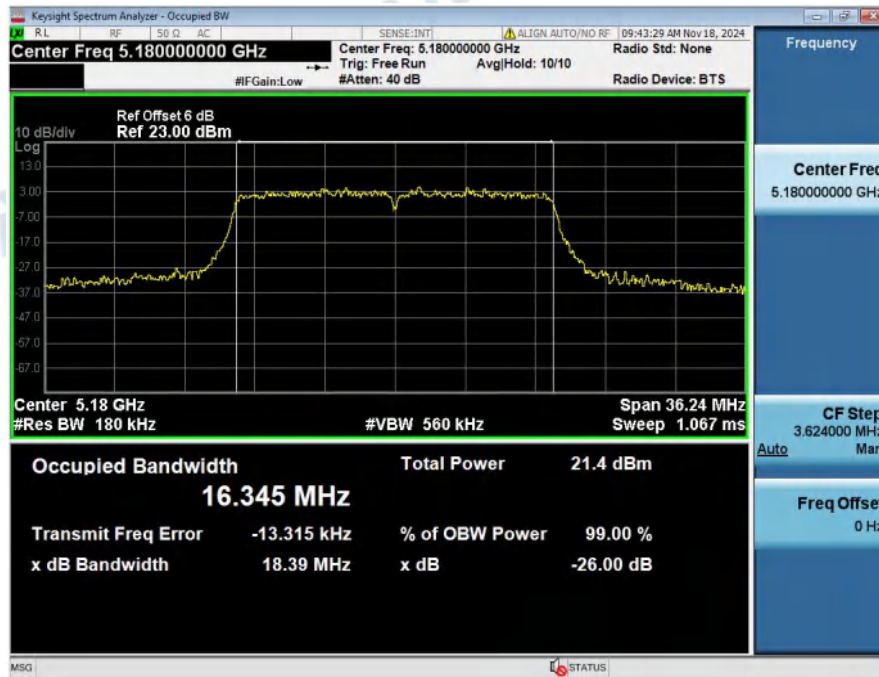
1. -26dB and 99% Emission Bandwidth

Condition	Antenna	Modulation	Frequency(MHz)	-26dB_Emission_Bandwidth(MHz)	Occupied Bandwidth(MHz)
NVNT	ANT1	802.11a	5180.00	18.39	16.35
NVNT	ANT1	802.11a	5200.00	18.26	16.32
NVNT	ANT1	802.11a	5240.00	18.26	16.33
NVNT	ANT1	802.11n(HT20)	5180.00	19.35	17.54
NVNT	ANT1	802.11n(HT20)	5200.00	19.27	17.54
NVNT	ANT1	802.11n(HT20)	5240.00	19.41	17.54
NVNT	ANT1	802.11ac(VHT20)	5180.00	19.34	17.54
NVNT	ANT1	802.11ac(VHT20)	5200.00	19.30	17.54
NVNT	ANT1	802.11ac(VHT20)	5240.00	19.23	17.54
NVNT	ANT1	802.11n(HT40)	5190.00	40.73	36.10
NVNT	ANT1	802.11n(HT40)	5230.00	40.15	36.04
NVNT	ANT1	802.11ac(VHT40)	5190.00	40.47	36.13
NVNT	ANT1	802.11ac(VHT40)	5230.00	40.57	35.99
NVNT	ANT1	802.11ac(VHT80)	5210.00	79.56	74.50

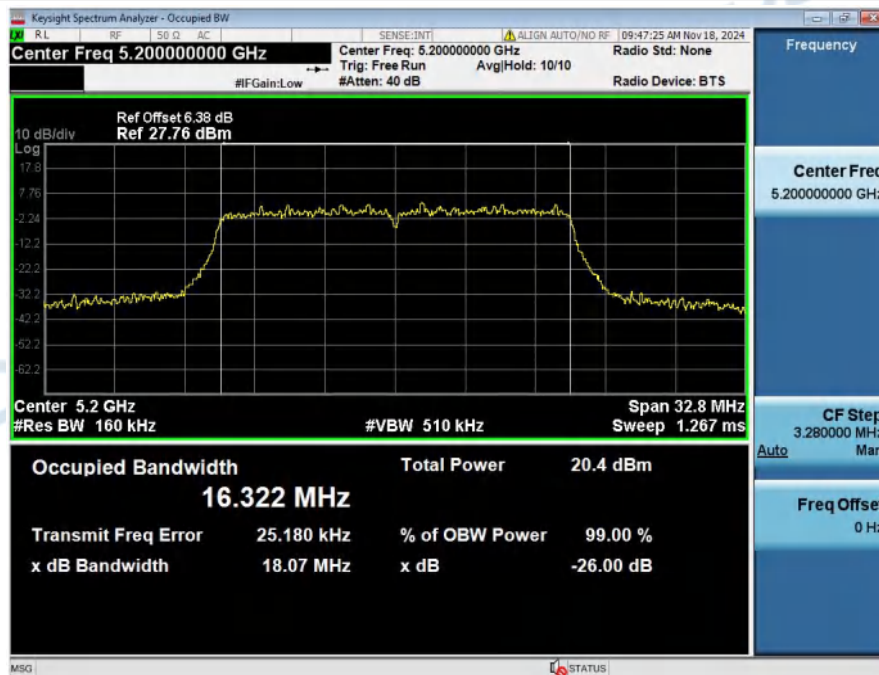
99%_OCB_NVNT_ANT1_802_11a_5180



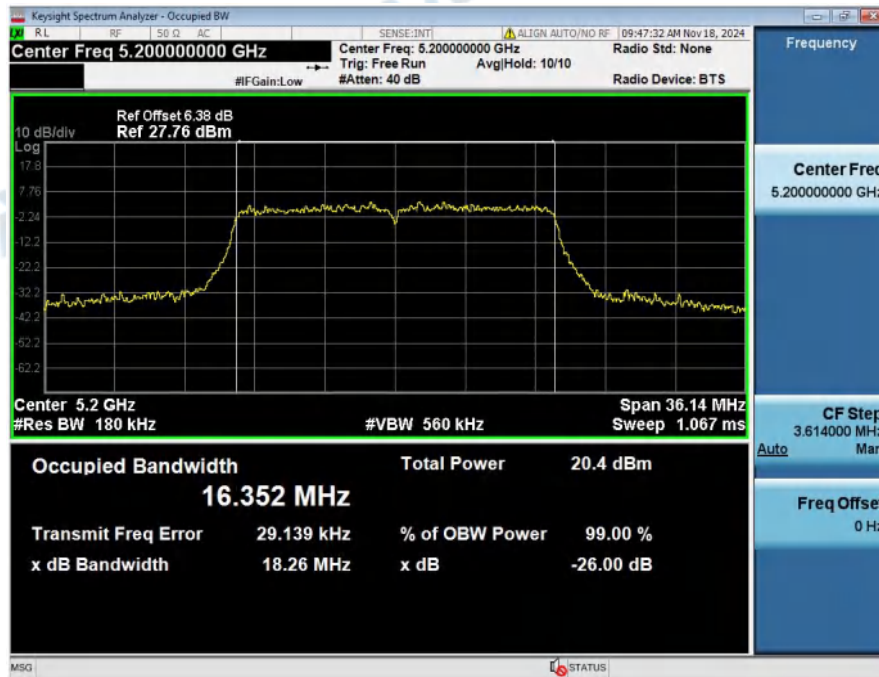
-26BW_NVNT_ANT1_802_11a_5180



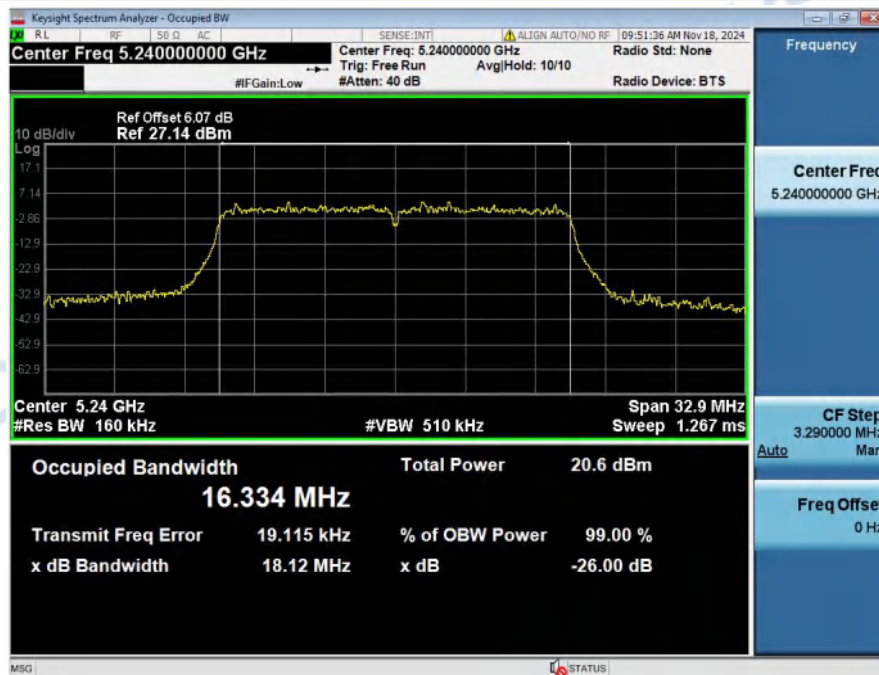
99%_OCB_NVNT_ANT1_802_11a_5200



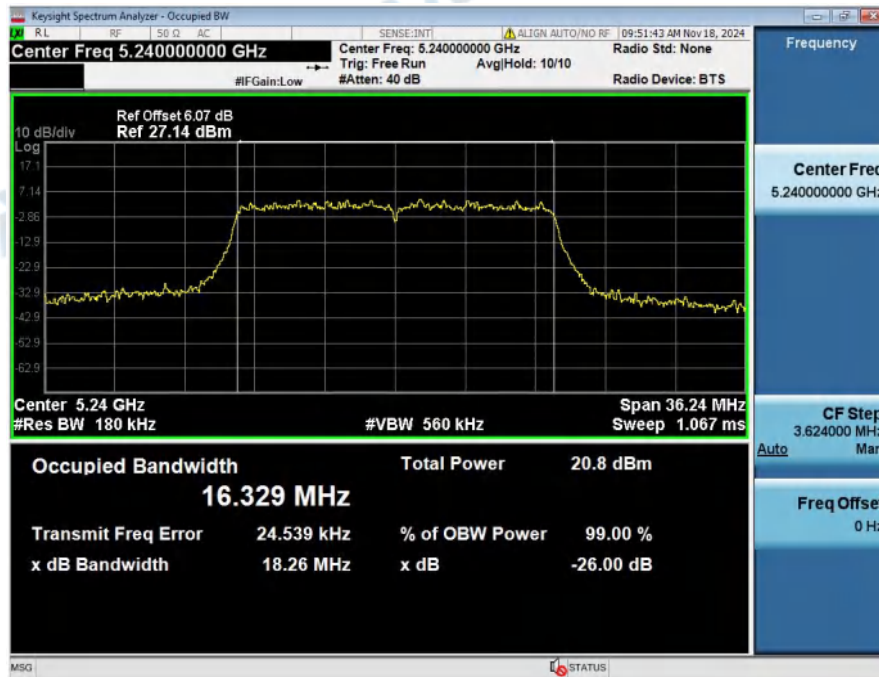
-26BW_NVNT_ANT1_802_11a_5200



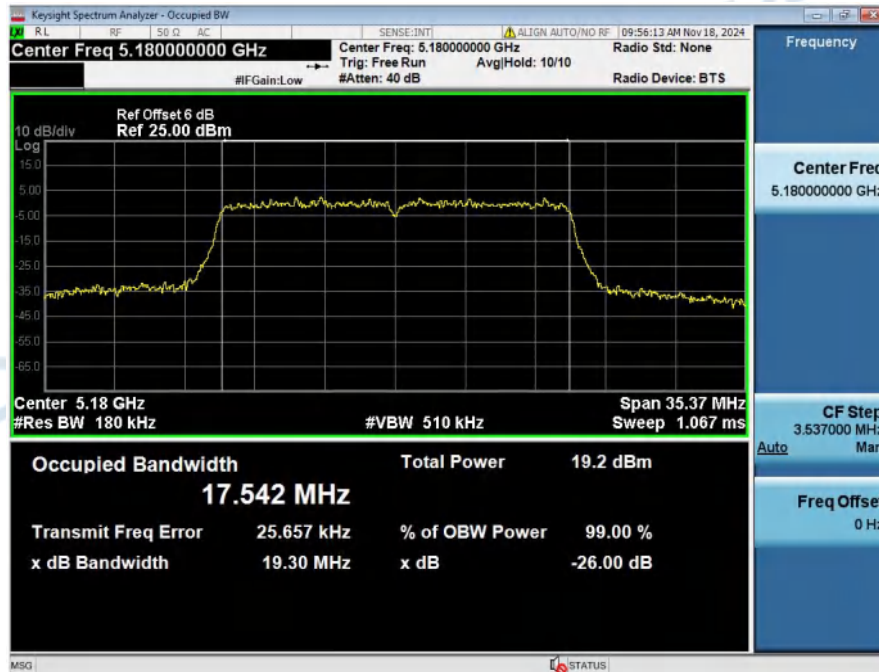
99%_OCB_NVNT_ANT1_802_11a_5240



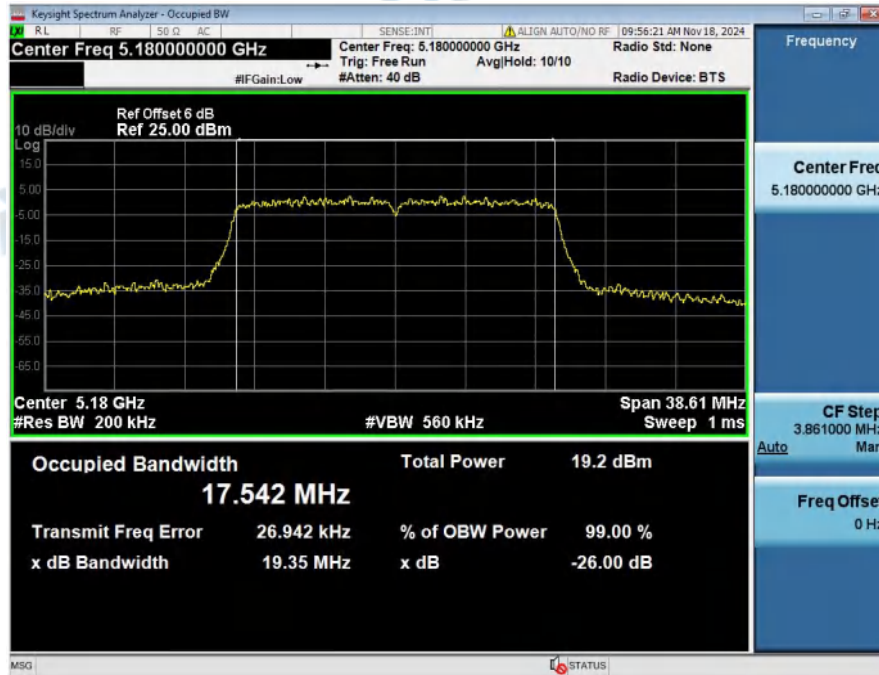
-26BW_NVNT_ANT1_802_11a_5240



99%_OCB_NVNT_ANT1_802_11n(HT20)_5180



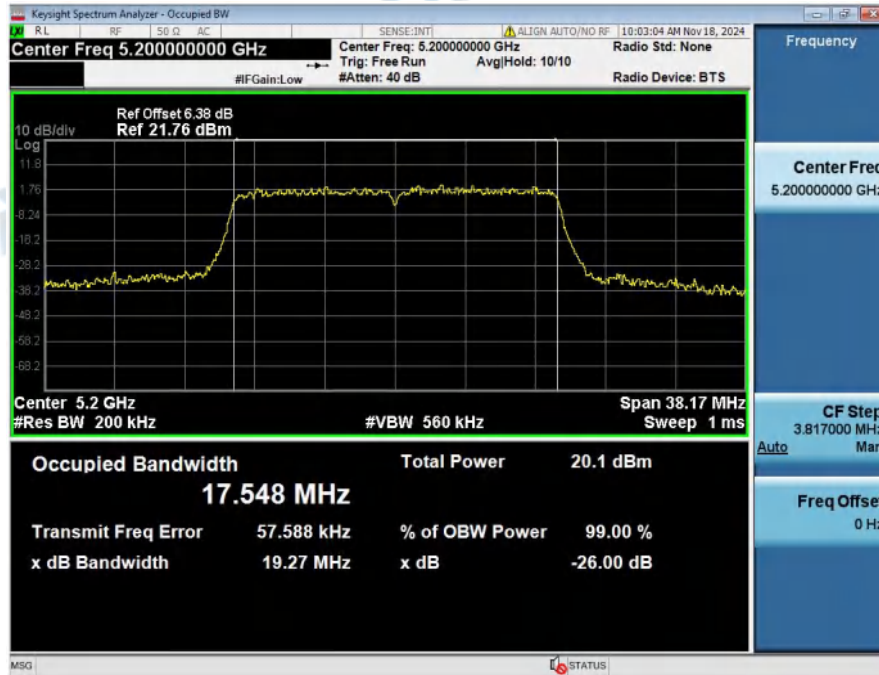
-26BW_NVNT_ANT1_802_11n(HT20)_5180



99%_OCB_NVNT_ANT1_802_11n(HT20)_5200



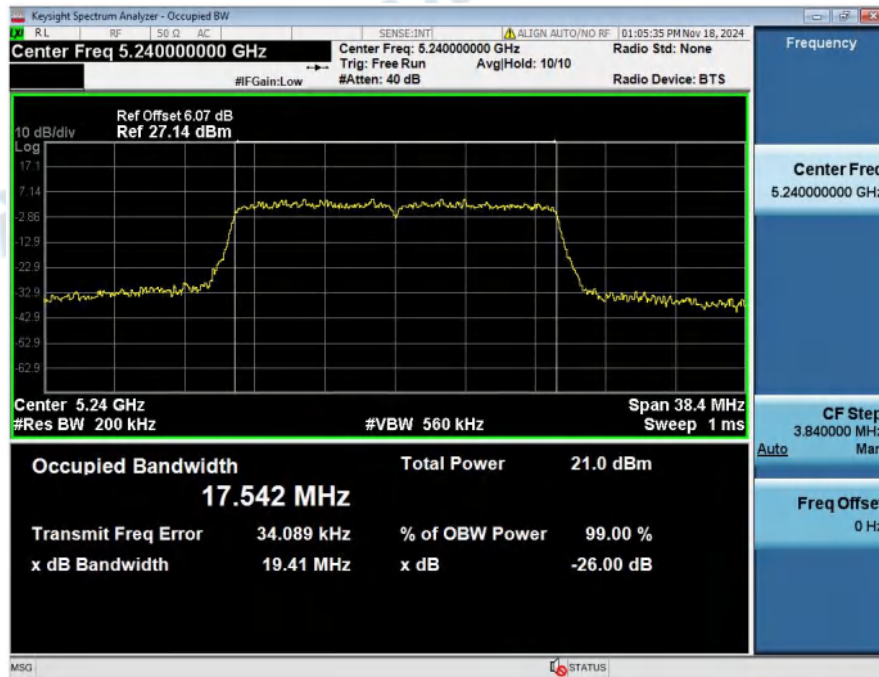
-26BW_NVNT_ANT1_802_11n(HT20)_5200



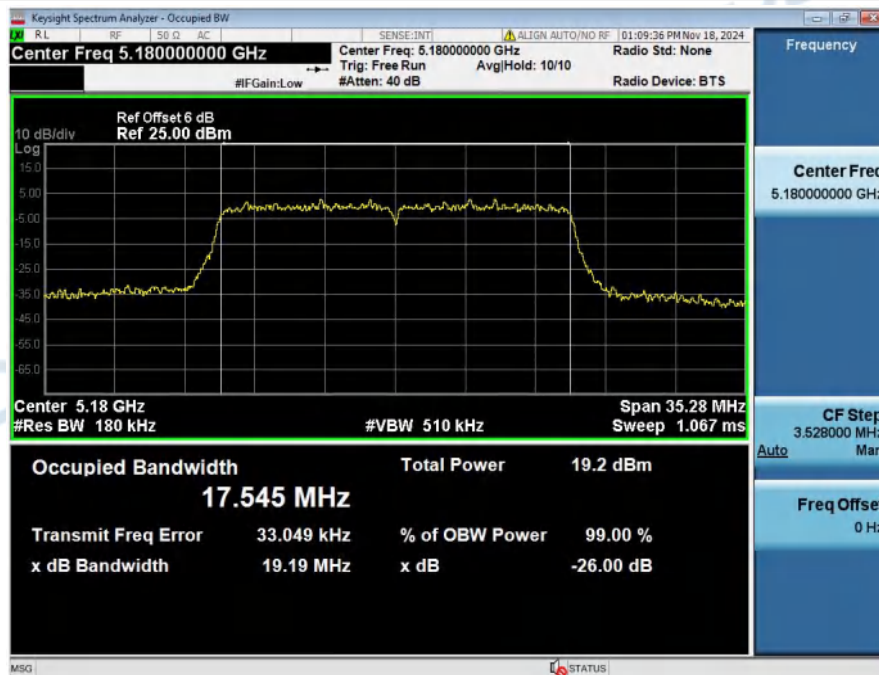
99%_OCB_NVNT_ANT1_802_11n(HT20)_5240



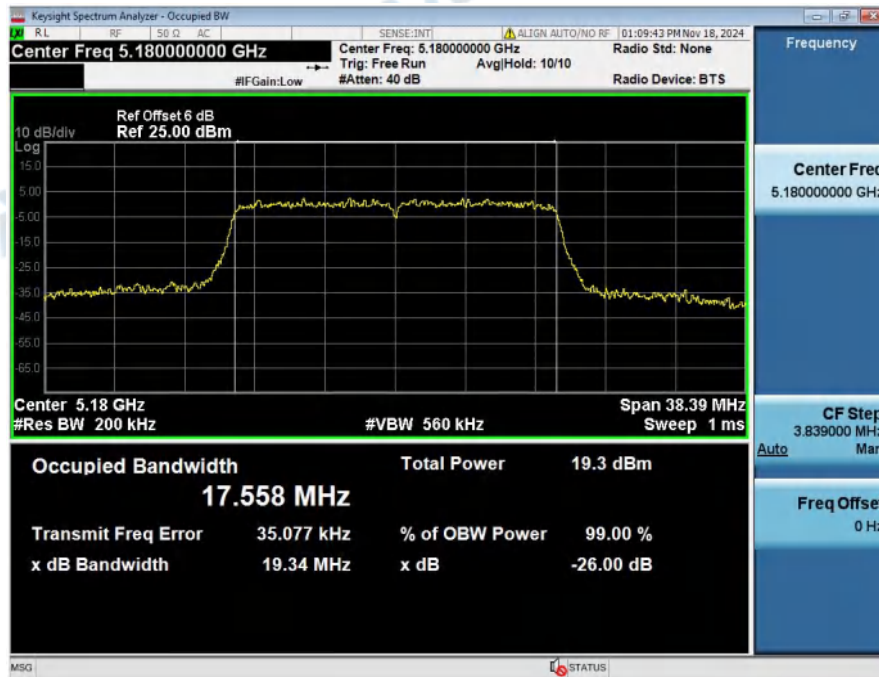
-26BW_NVNT_ANT1_802_11n(HT20)_5240



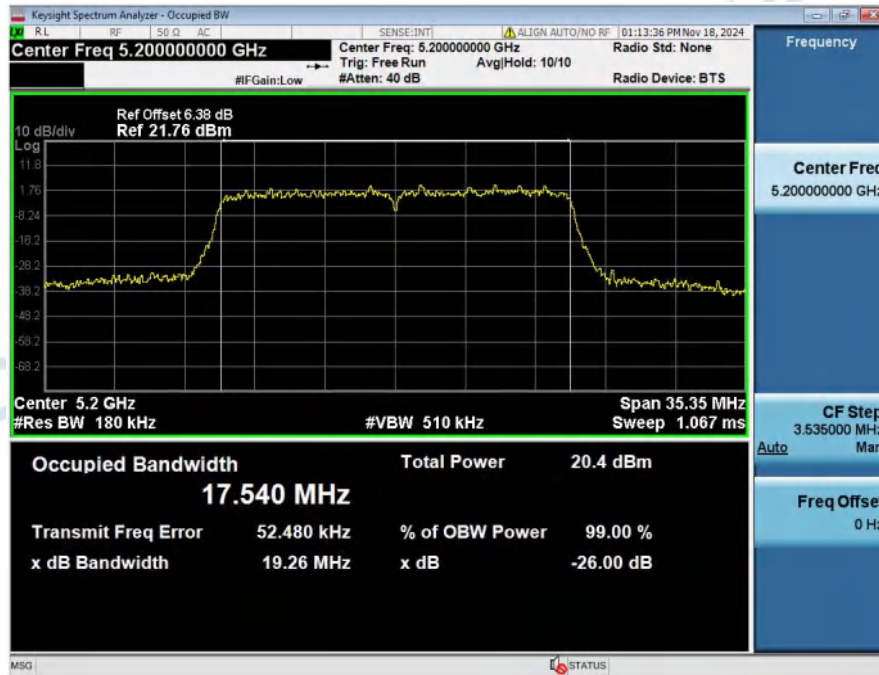
99%_OCB_NVNT_ANT1_802_11ac(VHT20)_5180



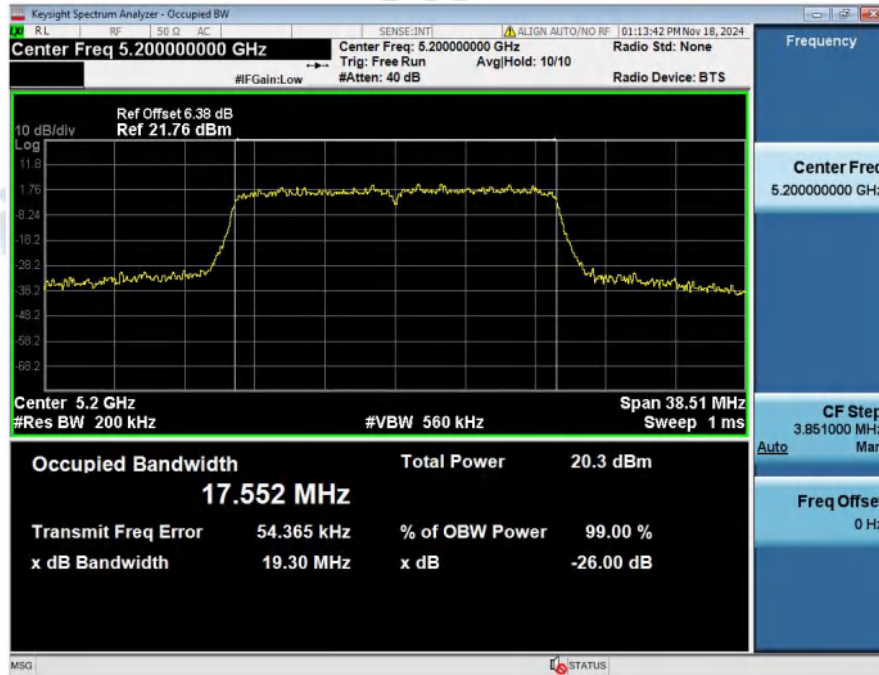
-26BW_NVNT_ANT1_802_11ac(VHT20)_5180



99%_OCB_NVNT_ANT1_802_11ac(VHT20)_5200



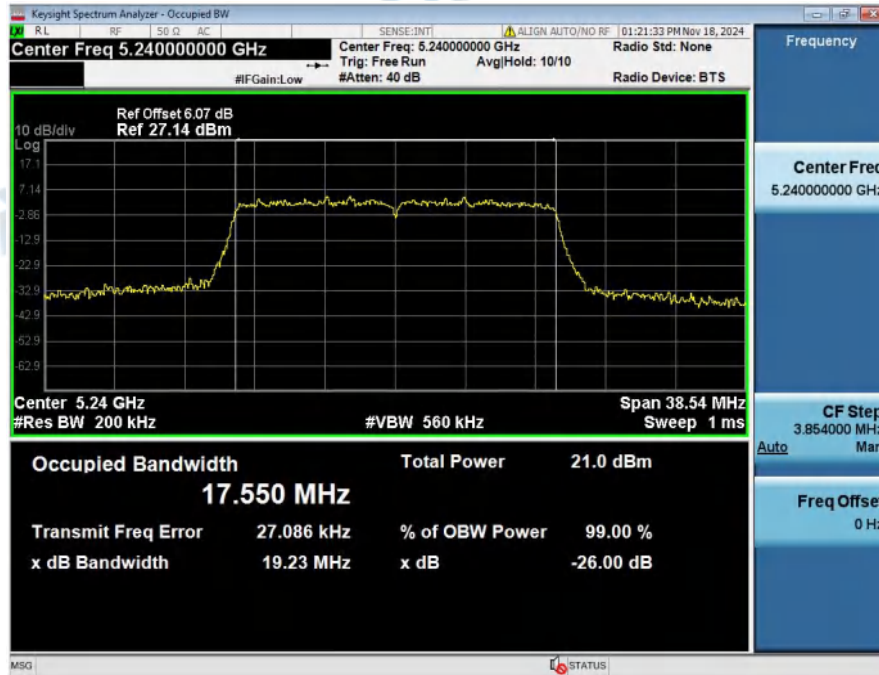
-26BW_NVNT_ANT1_802_11ac(VHT20)_5200



99%_OCB_NVNT_ANT1_802_11ac(VHT20)_5240



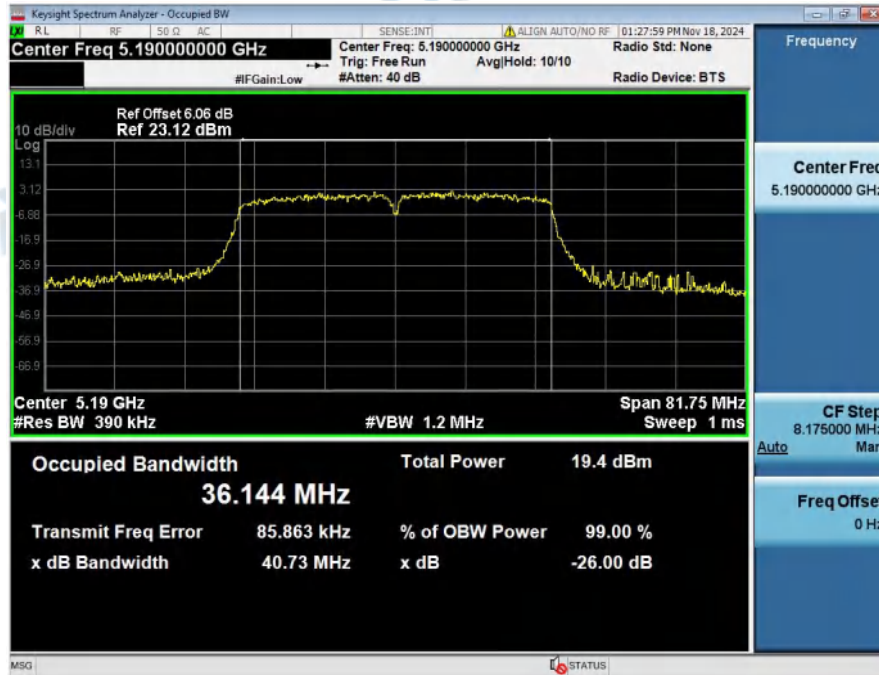
-26BW_NVNT_ANT1_802_11ac(VHT20)_5240



99%_OCB_NVNT_ANT1_802_11n(HT40)_5190



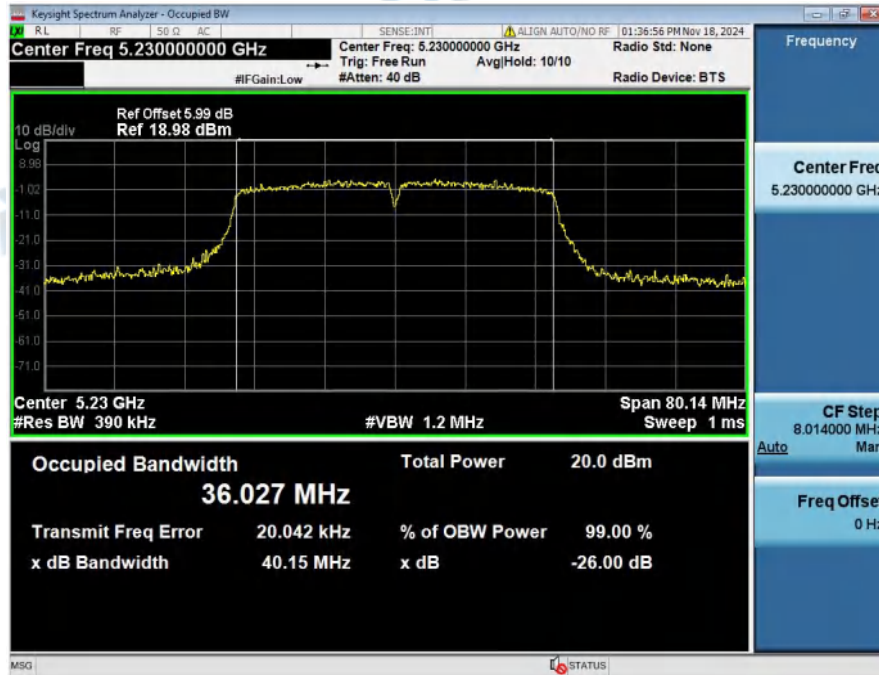
-26BW_NVNT_ANT1_802_11n(HT40)_5190



99%_OCB_NVNT_ANT1_802_11n(HT40)_5230



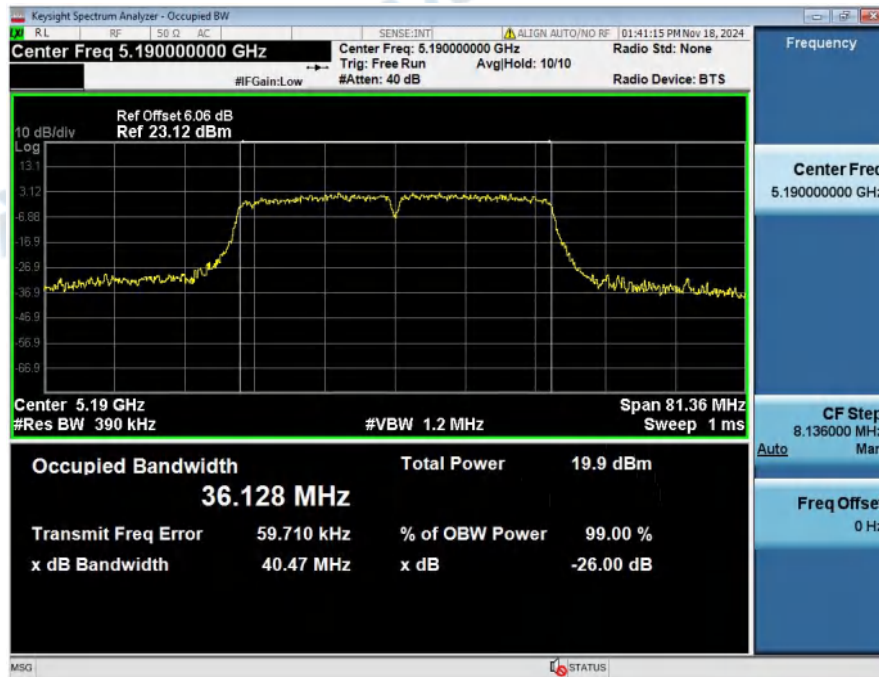
-26BW_NVNT_ANT1_802_11n(HT40)_5230



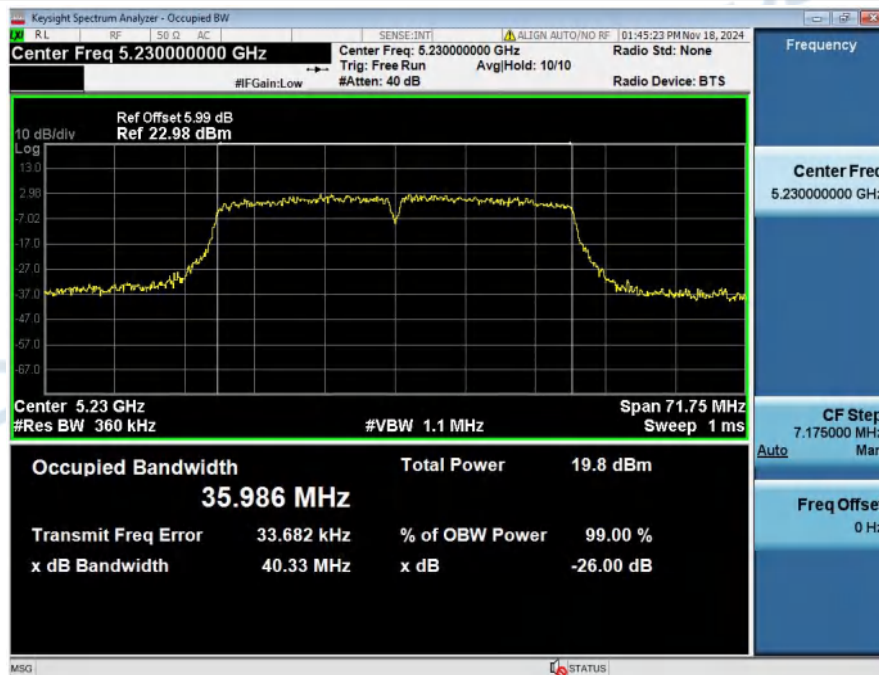
99%_OCB_NVNT_ANT1_802_11ac(VHT40)_5190



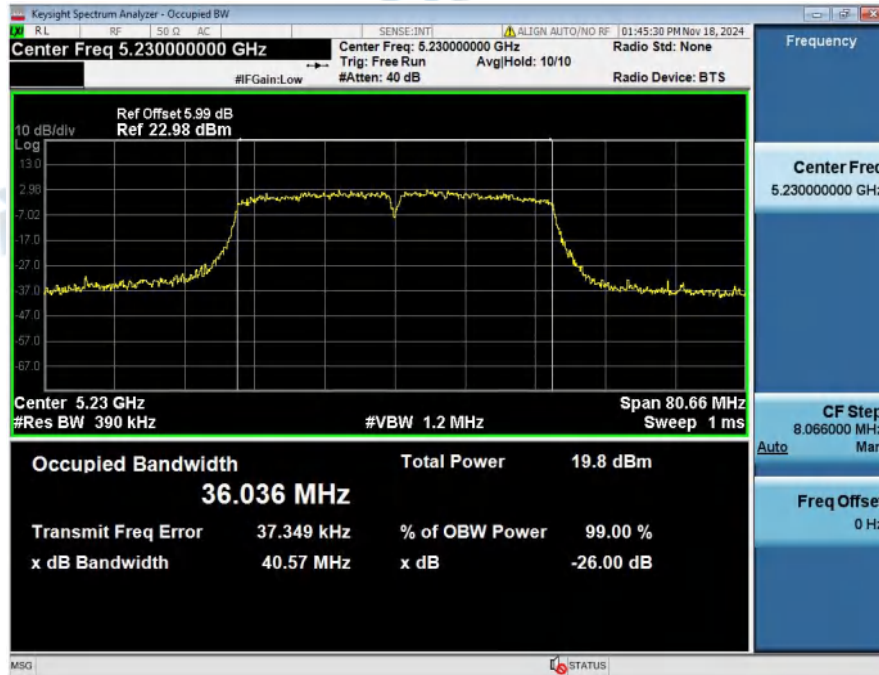
-26BW_NVNT_ANT1_802_11ac(VHT40)_5190



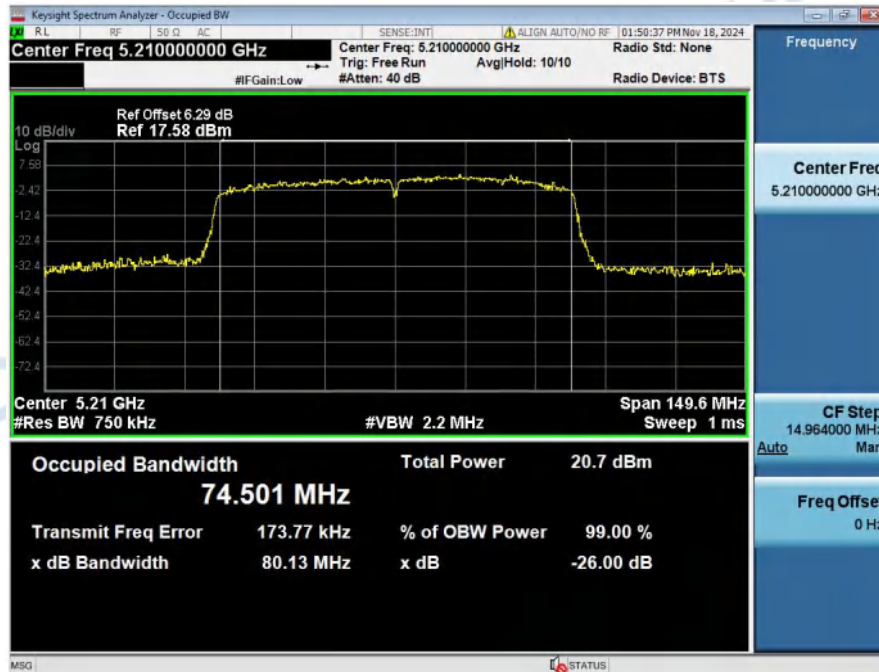
99%_OCB_NVNT_ANT1_802_11ac(VHT40)_5230



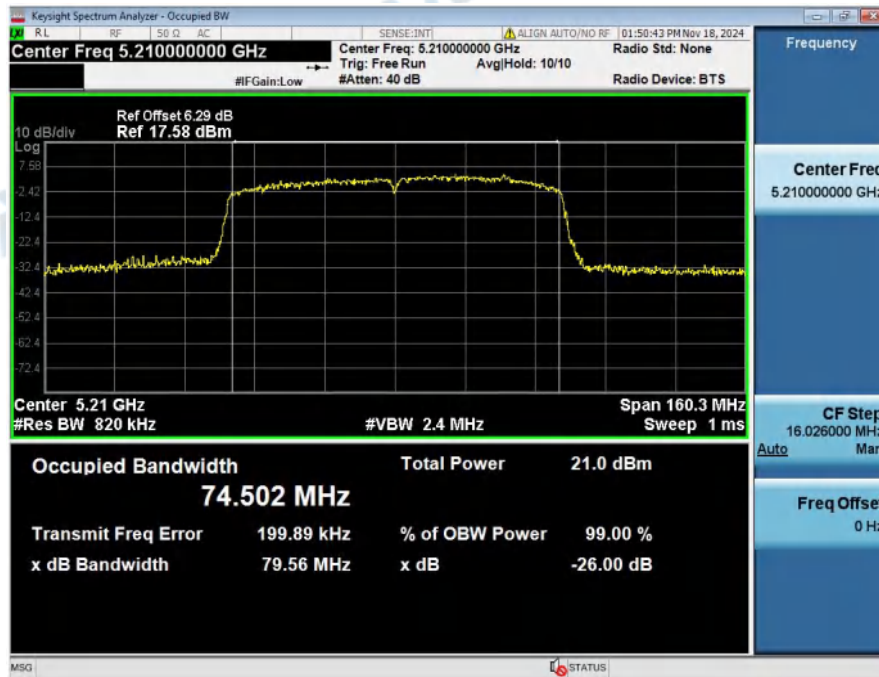
-26BW_NVNT_ANT1_802_11ac(VHT40)_5230



99%_OCB_NVNT_ANT1_802_11ac(VHT80)_5210

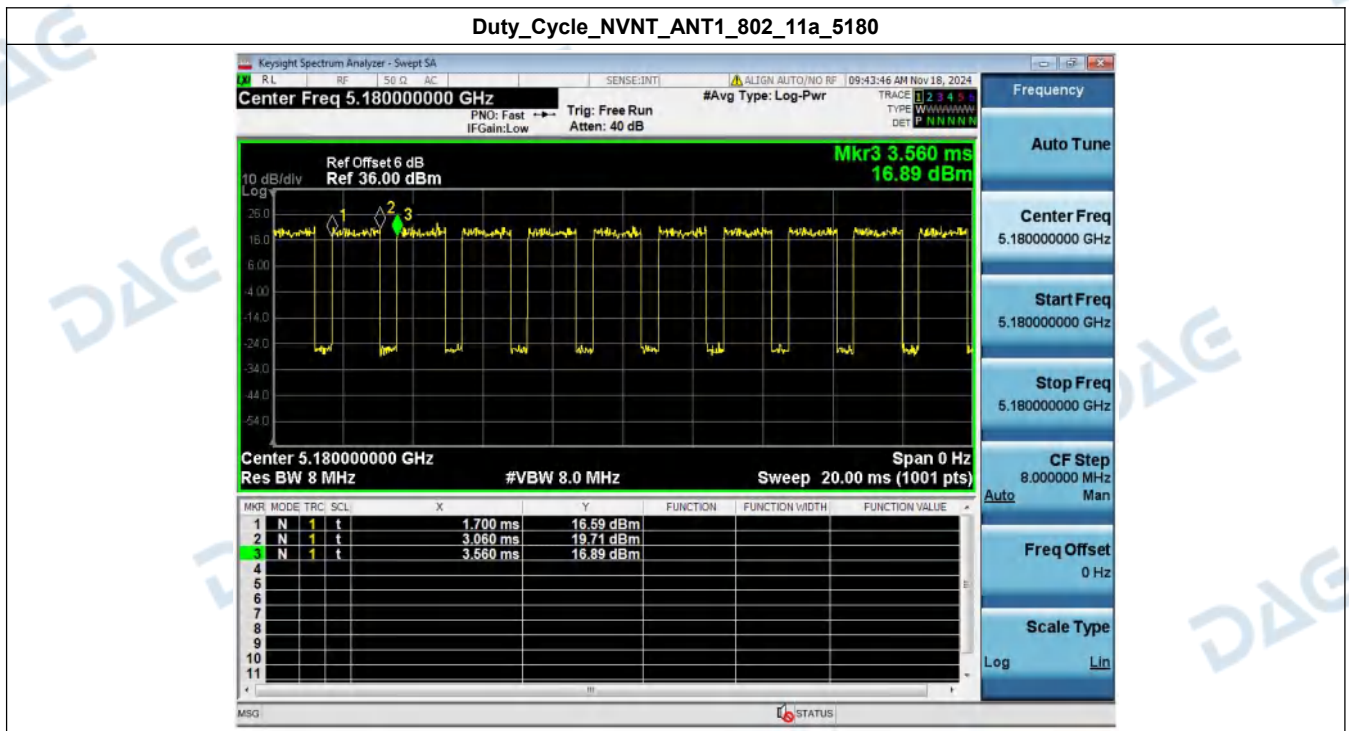


-26BW_NVNT_ANT1_802_11ac(VHT80)_5210

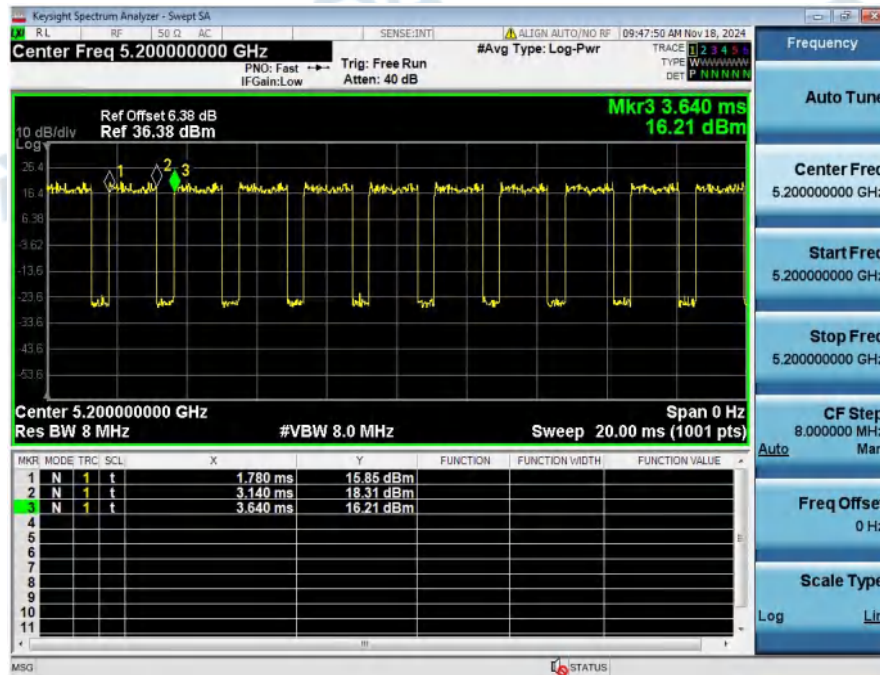


2. Duty Cycle

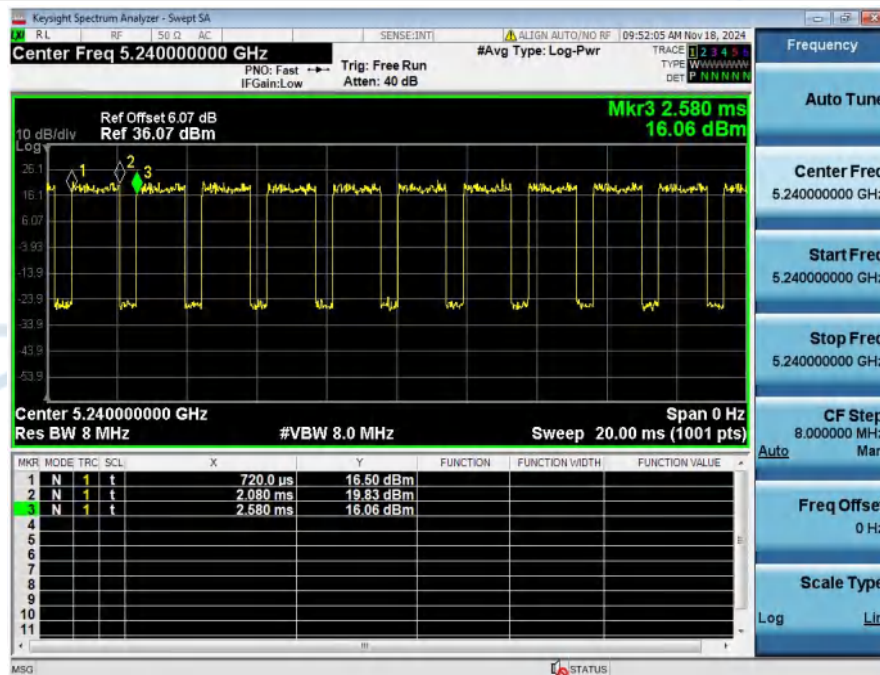
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty_factor
NVNT	ANT1	802.11a	5180.00	73.12	1.36
NVNT	ANT1	802.11a	5200.00	73.12	1.36
NVNT	ANT1	802.11a	5240.00	73.12	1.36
NVNT	ANT1	802.11n(HT20)	5180.00	71.59	1.45
NVNT	ANT1	802.11n(HT20)	5200.00	70.79	1.50
NVNT	ANT1	802.11n(HT20)	5240.00	71.91	1.43
NVNT	ANT1	802.11ac(VHT20)	5180.00	71.91	1.43
NVNT	ANT1	802.11ac(VHT20)	5200.00	71.91	1.43
NVNT	ANT1	802.11ac(VHT20)	5240.00	70.79	1.50
NVNT	ANT1	802.11n(HT40)	5190.00	55.36	2.57
NVNT	ANT1	802.11n(HT40)	5230.00	56.14	2.51
NVNT	ANT1	802.11ac(VHT40)	5190.00	56.14	2.51
NVNT	ANT1	802.11ac(VHT40)	5230.00	56.14	2.51
NVNT	ANT1	802.11ac(VHT80)	5210.00	39.02	4.09



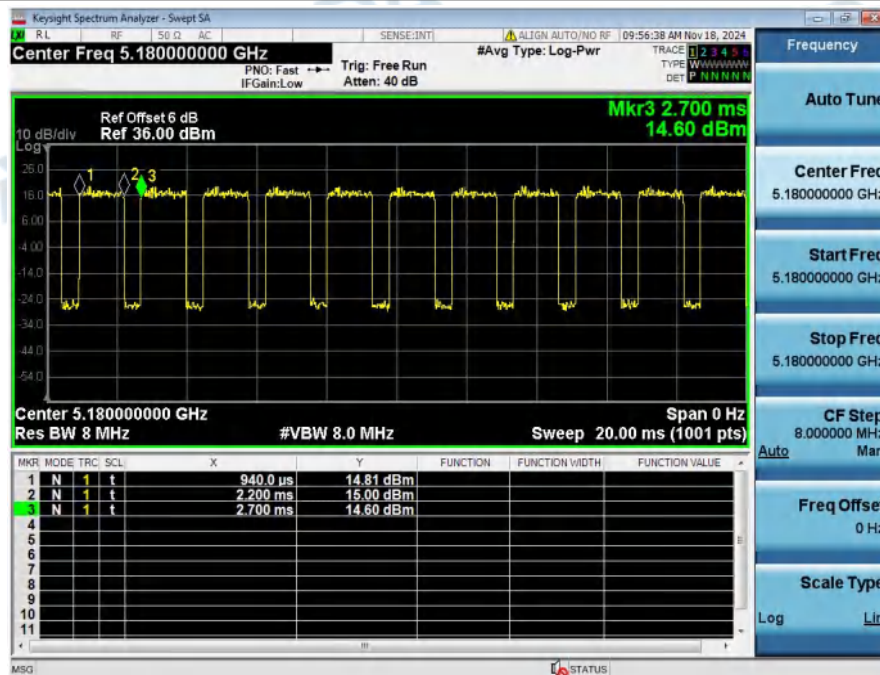
Duty_Cycle_NVNT_ANT1_802_11a_5200



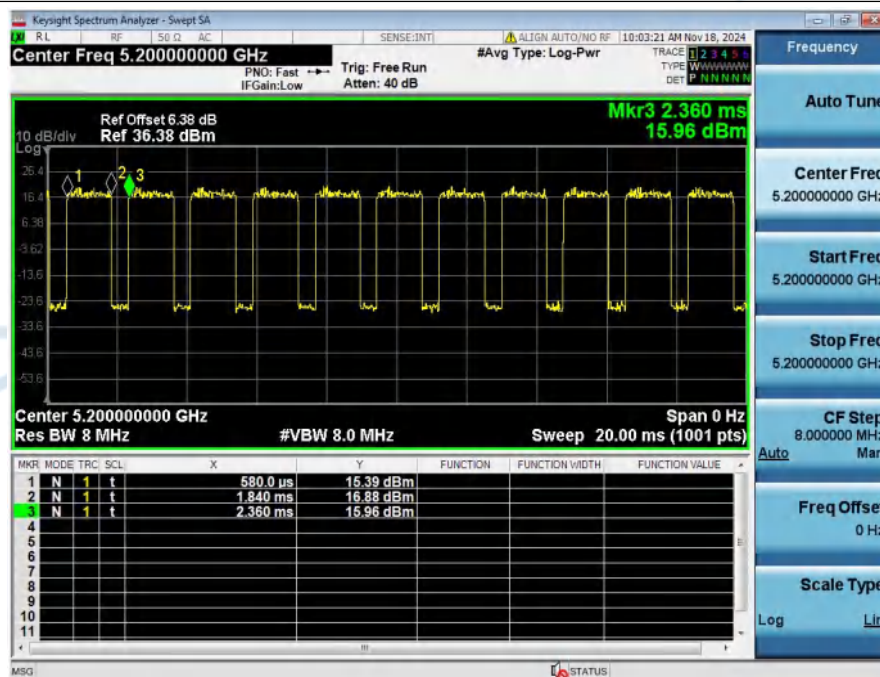
Duty_Cycle_NVNT_ANT1_802_11a_5240



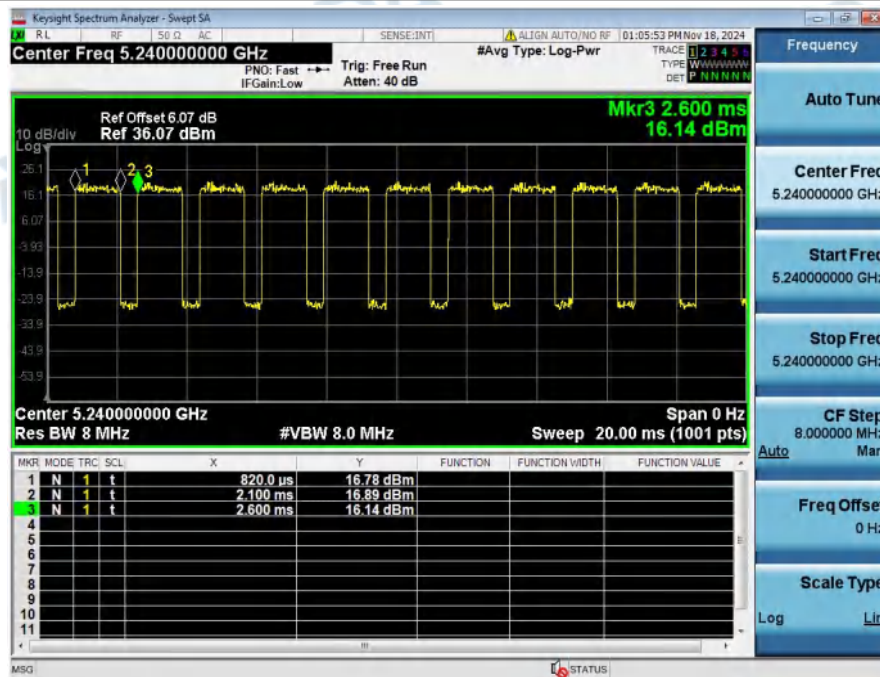
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_5180



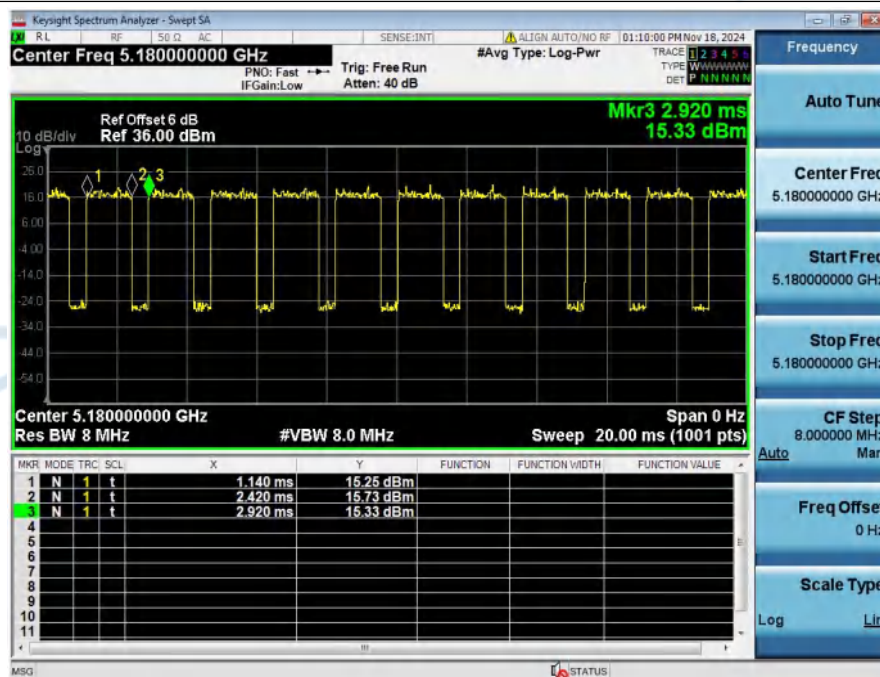
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_5200



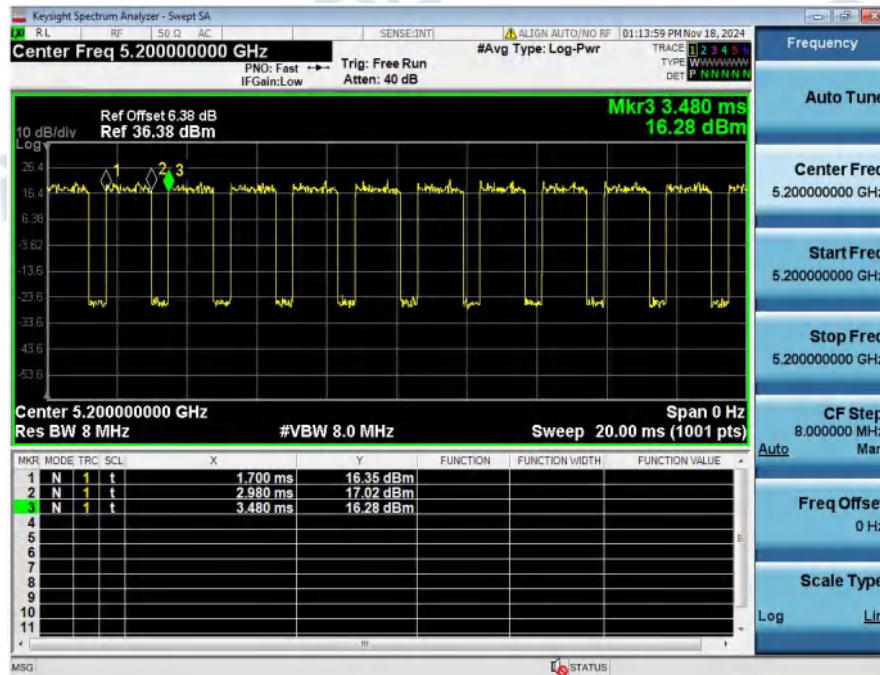
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_5240



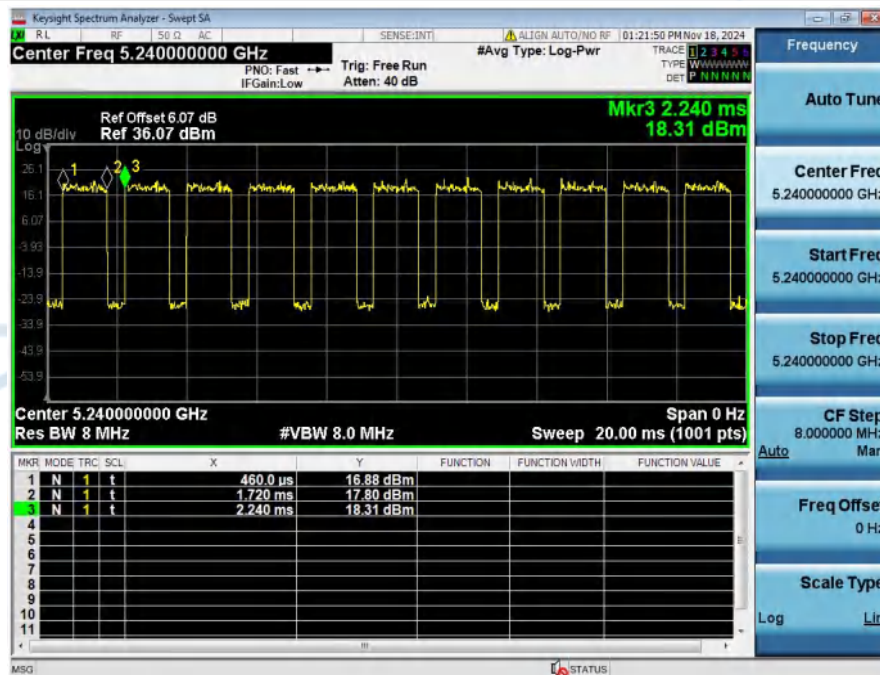
Duty_Cycle_NVNT_ANT1_802_11ac(VHT20)_5180



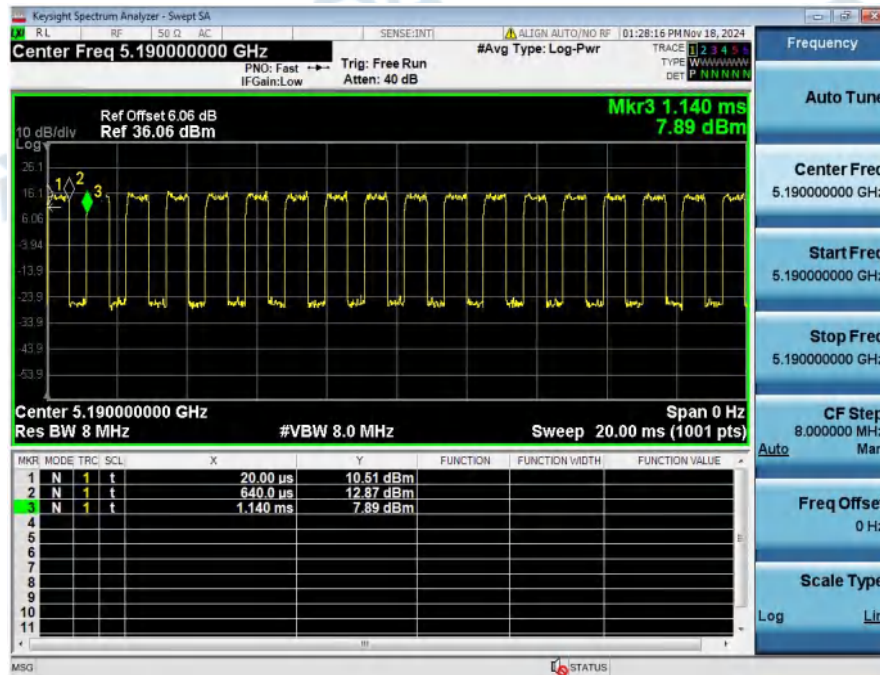
Duty_Cycle_NVNT_ANT1_802_11ac(VHT20)_5200



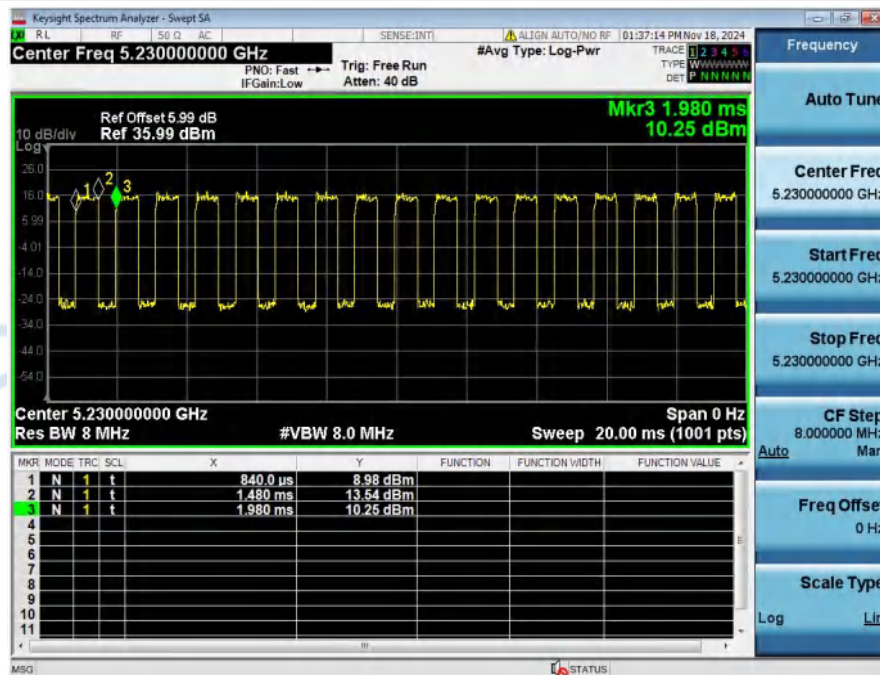
Duty_Cycle_NVNT_ANT1_802_11ac(VHT20)_5240



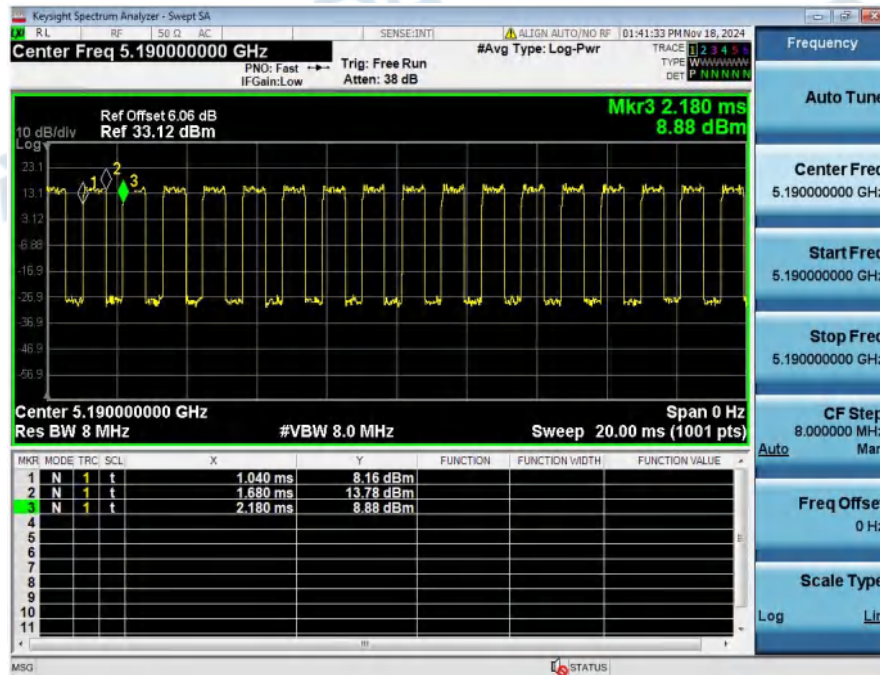
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_5190



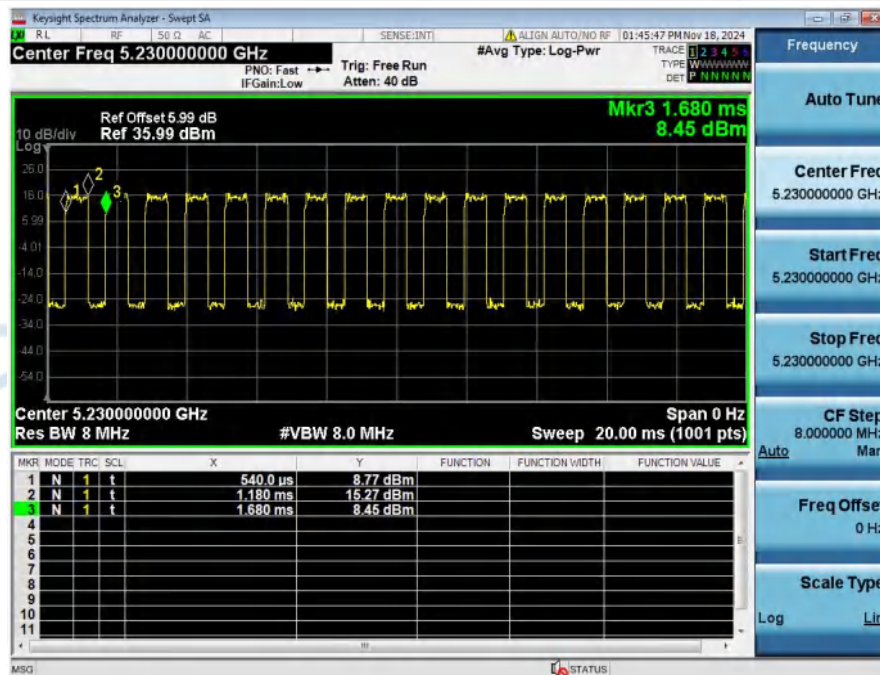
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_5230



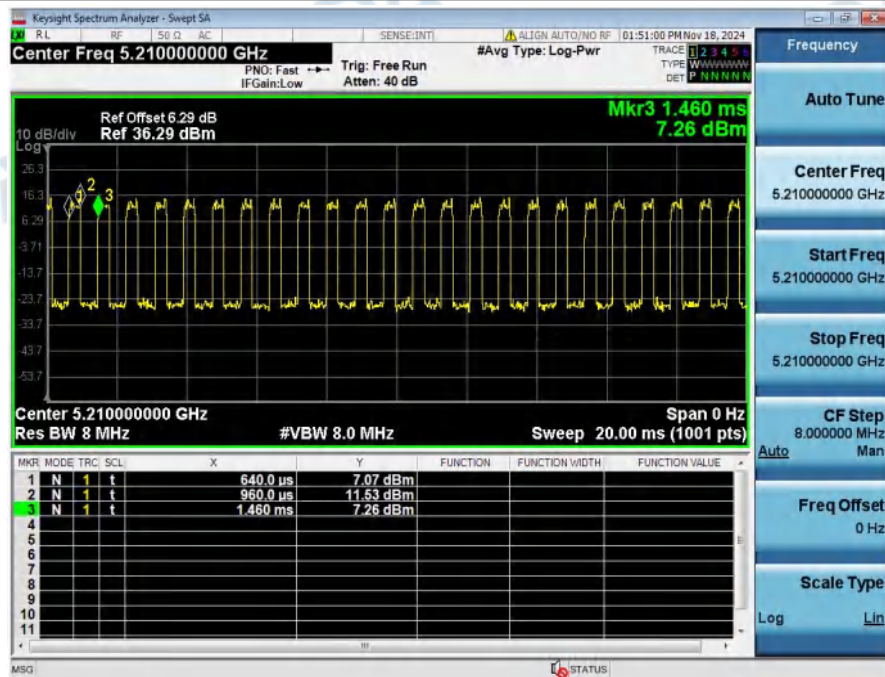
Duty_Cycle_NVNT_ANT1_802_11ac(VHT40)_5190



Duty_Cycle_NVNT_ANT1_802_11ac(VHT40)_5230



Duty_Cycle_NVNT_ANT1_802_11ac(VHT80)_5210



3. Maximum Conducted Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	12.98	1.36	14.34	24	Pass
NVNT	ANT1	802.11a	5200.00	12.65	1.36	14.01	24	Pass
NVNT	ANT1	802.11a	5240.00	12.82	1.36	14.18	24	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	11.31	1.45	12.76	24	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	12.44	1.50	13.94	24	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	13.18	1.43	14.61	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	11.50	1.43	12.93	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	12.51	1.43	13.94	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	13.33	1.50	14.83	24	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	11.00	2.57	13.57	24	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	11.09	2.51	13.60	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	11.21	2.51	13.72	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	10.93	2.51	13.44	24	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	10.11	4.09	14.20	24	Pass

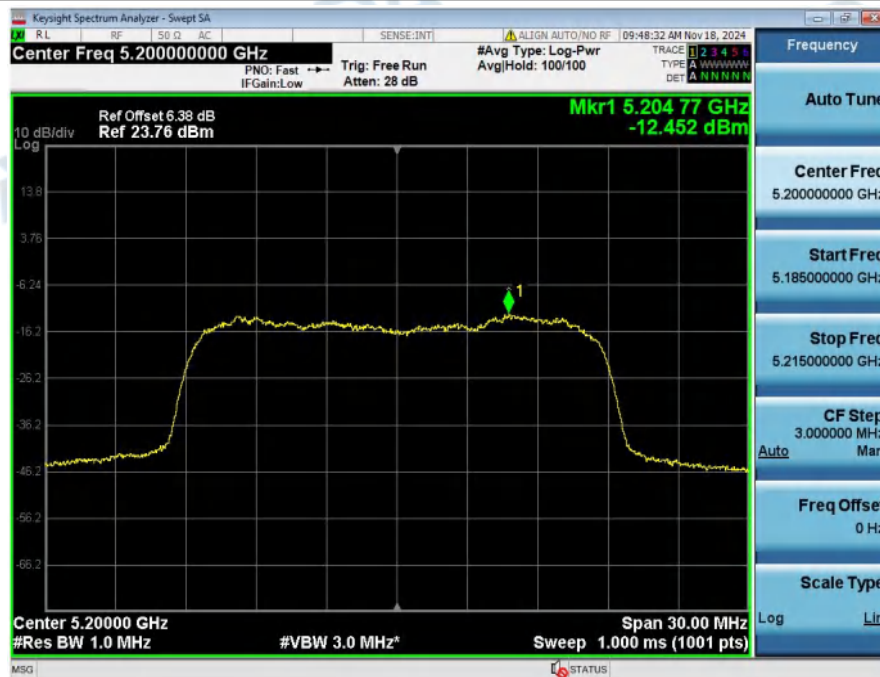
4. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/MHz)	Duty factor(dB)	Total PSD(dBm/MHz)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	-14.28	1.36	-12.92	11	Pass
NVNT	ANT1	802.11a	5200.00	-12.45	1.36	-11.09	11	Pass
NVNT	ANT1	802.11a	5240.00	-12.03	1.36	-10.67	11	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	-15.33	1.45	-13.88	11	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	-14.68	1.50	-13.18	11	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	-12.51	1.43	-11.08	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	-12.33	1.43	-10.90	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	-13.67	1.43	-12.24	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	-13.69	1.50	-12.19	11	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	-23.07	2.57	-20.50	11	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	-27.95	2.51	-25.44	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	-23.87	2.51	-21.36	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	-24.98	2.51	-22.47	11	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	-35.34	4.09	-31.25	11	Pass

Power_Spectral_Density_NVNT_ANT1_802_11a_5180



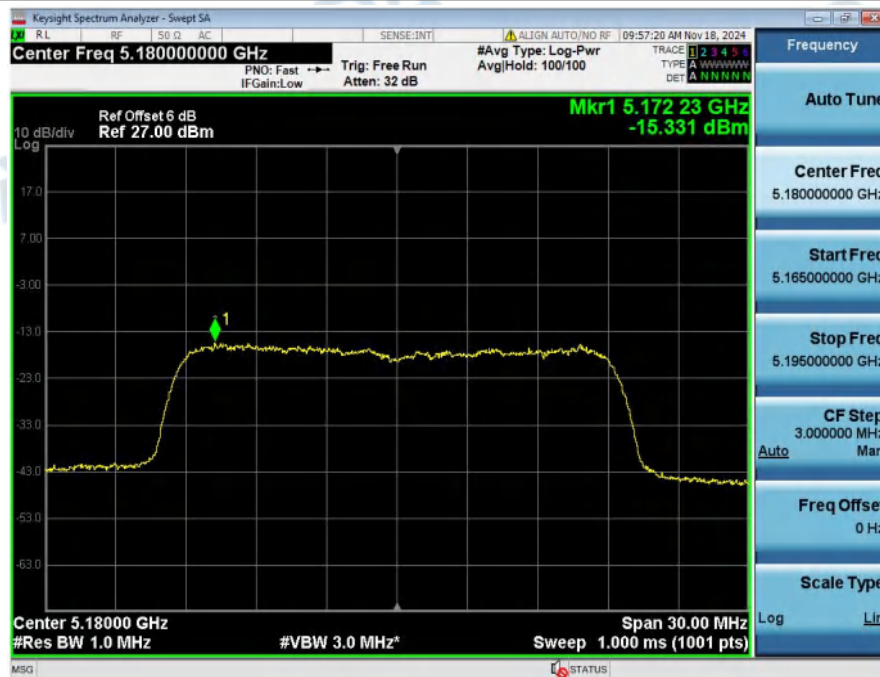
Power_Spectral_Density_NVNT_ANT1_802_11a_5200



Power_Spectral_Density_NVNT_ANT1_802_11a_5240



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5180



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5200



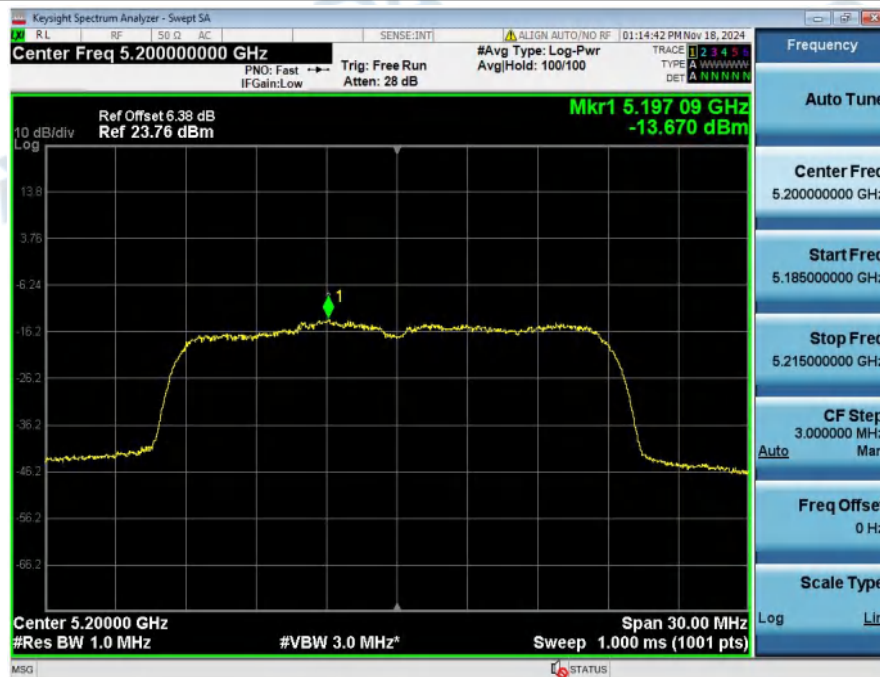
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5240



Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5180



Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5200



Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5240



Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_5190



Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_5230



Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT40)_5190



Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT40)_5230



Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT80)_5210



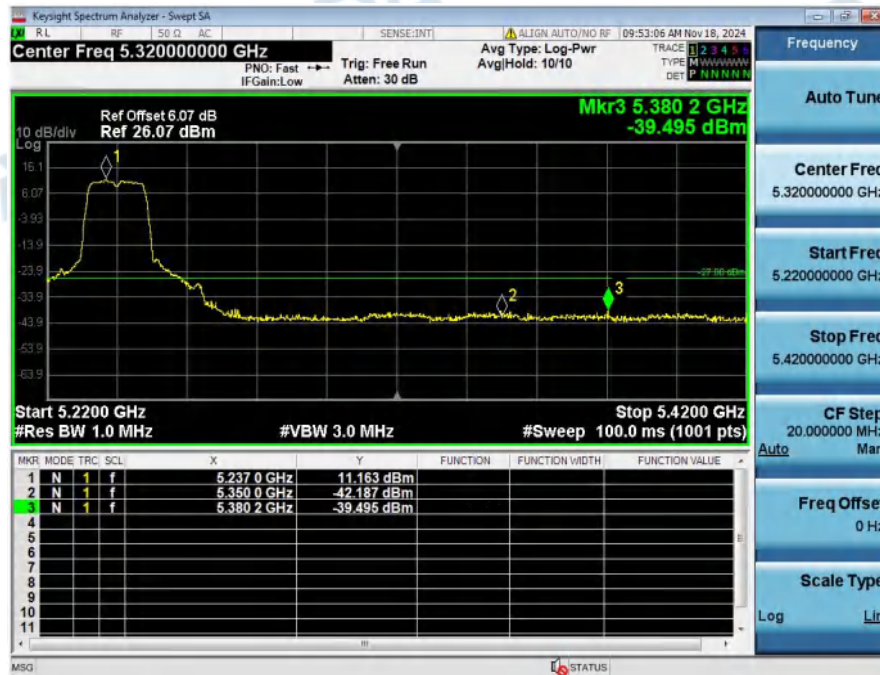
5. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark Frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	5147.00	-36.58	-27	Pass
NVNT	ANT1	802.11a	5240.00	5380.20	-39.50	-27	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	5149.80	-37.24	-27	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	5367.60	-40.34	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	5147.60	-34.67	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	5352.20	-39.79	-27	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	5149.94	-30.57	-27	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	5389.97	-40.75	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	5148.05	-28.66	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	5364.98	-40.15	-27	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	5148.26	-28.79	-27	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	5359.10	-39.43	-27	Pass

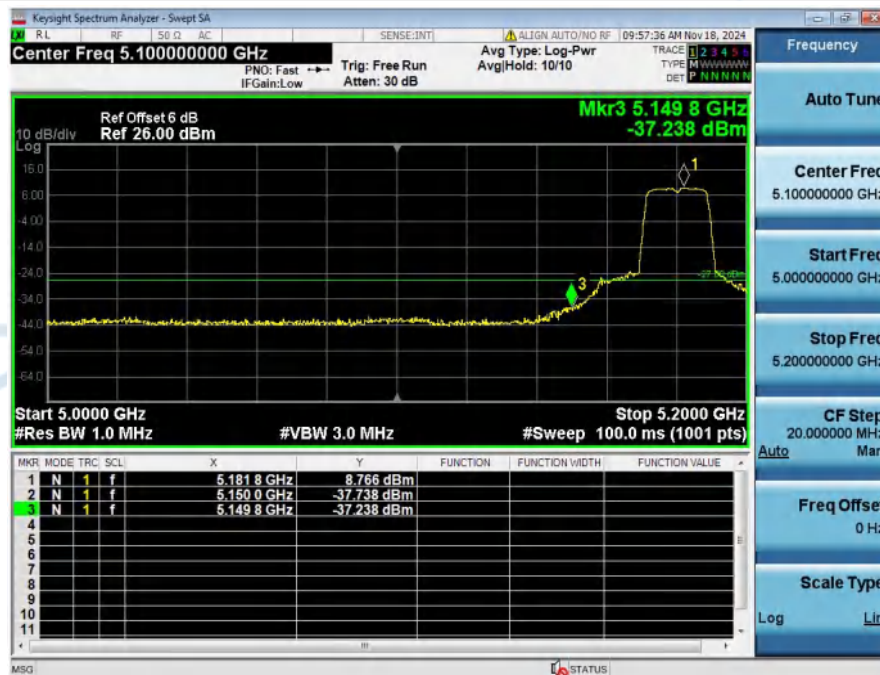
Bandedge_NVNT_ANT1_802_11a_5180



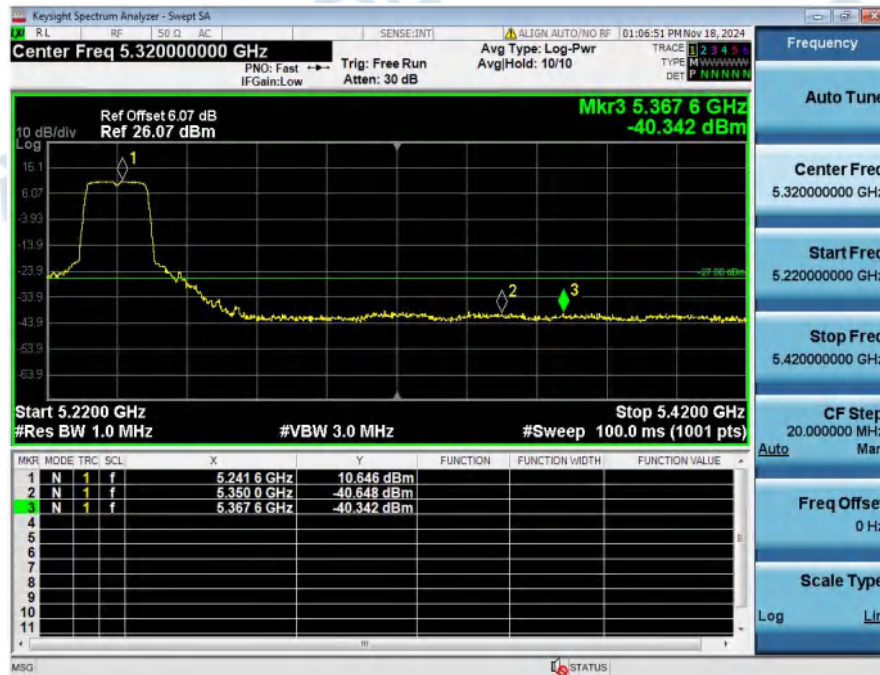
Bandedge_NVNT_ANT1_802_11a_5240



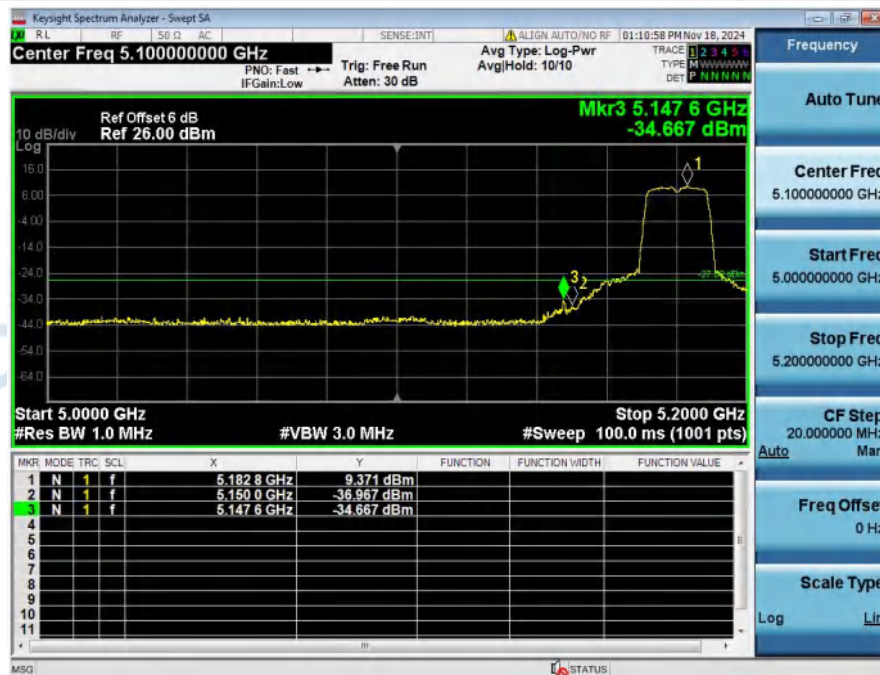
Bandedge_NVNT_ANT1_802_11n(HT20)_5180



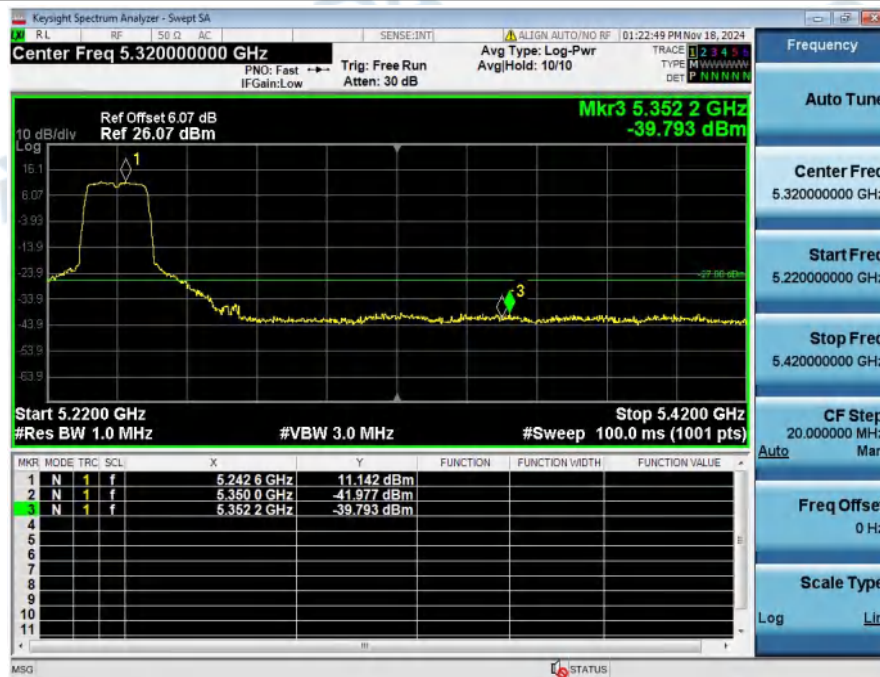
Bandedge_NVNT_ANT1_802_11n(HT20)_5240



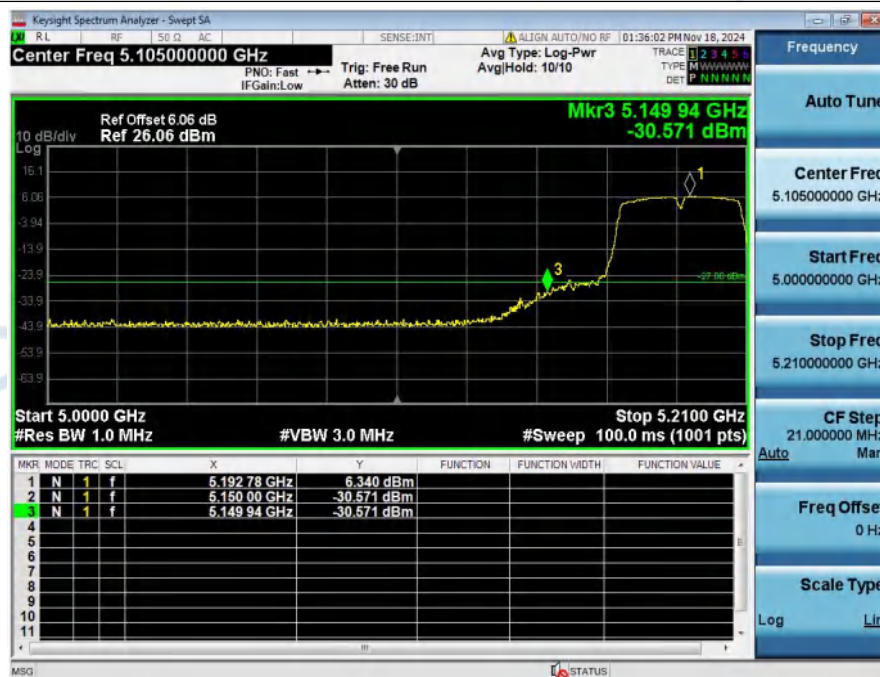
Bandedge_NVNT_ANT1_802_11ac(VHT20)_5180



Bandedge_NVNT_ANT1_802_11ac(VHT20)_5240



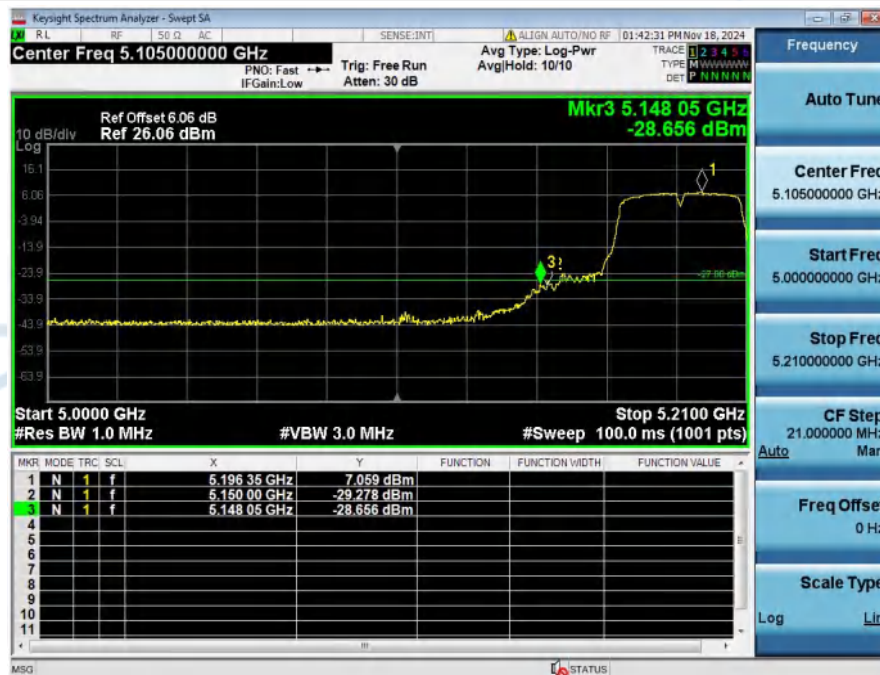
Bandedge_NVNT_ANT1_802_11n(HT40)_5190



Bandedge_NVNT_ANT1_802_11n(HT40)_5230



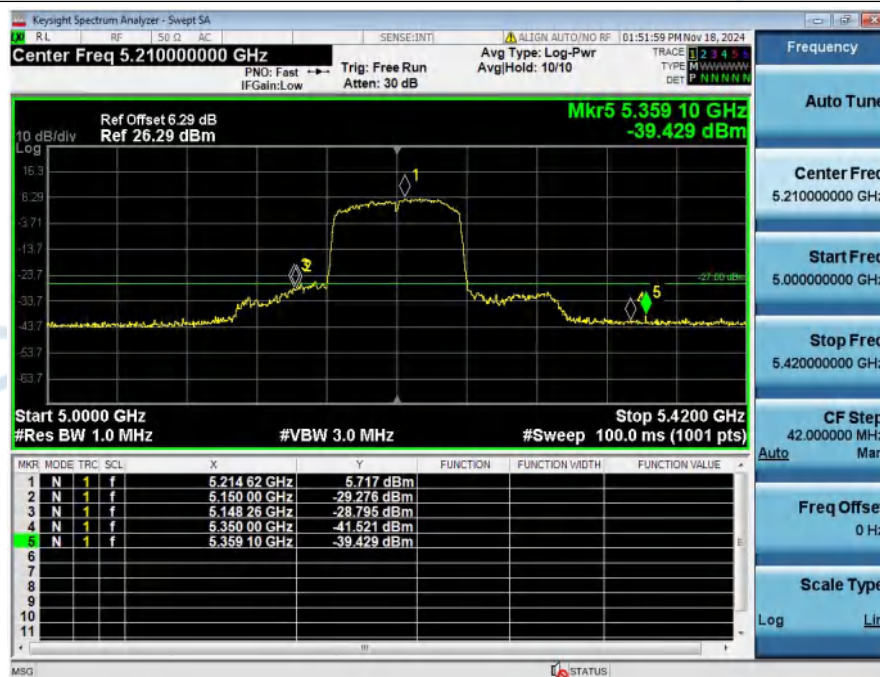
Bandedge_NVNT_ANT1_802_11ac(VHT40)_5190



Bandedge_NVNT_ANT1_802_11ac(VHT40)_5230



Bandedge_NVNT_ANT1_802_11ac(VHT80)_5210



6. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark Frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	25097.09	-27.58	-27	Pass
NVNT	ANT1	802.11a	5200.00	25044.15	-27.55	-27	Pass
NVNT	ANT1	802.11a	5240.00	25017.68	-27.62	-27	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	25070.62	-27.50	-27	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	24964.74	-27.46	-27	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	24488.28	-27.29	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	24461.81	-27.06	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	25044.15	-36.59	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	24991.21	-37.01	-27	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	24991.21	-37.04	-27	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	24964.74	-37.08	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	25070.62	-37.15	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	24964.74	-35.58	-27	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	25017.68	-36.93	-27	Pass

