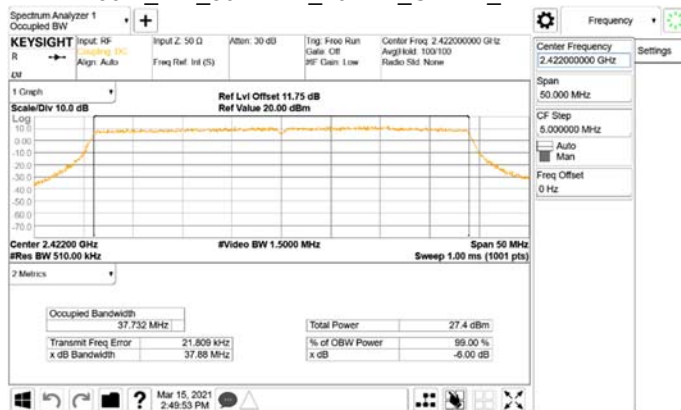


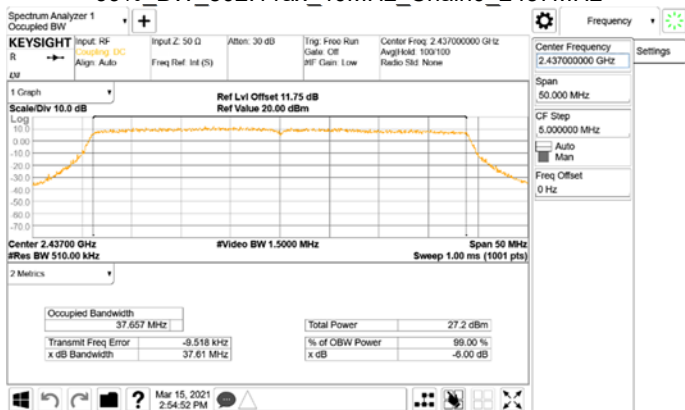
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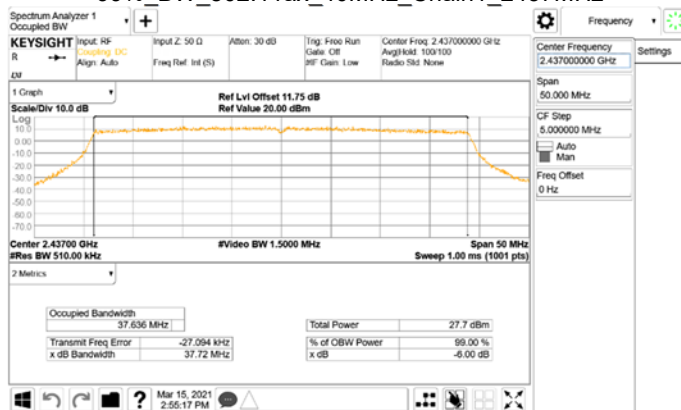
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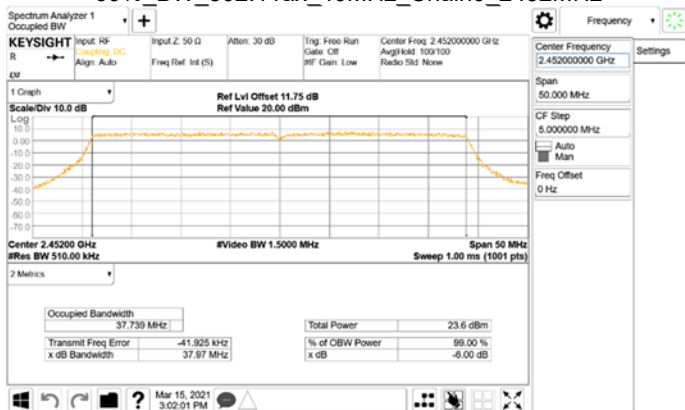
99%_BW_802.11ax_40MHz_Chain0_2437MHz



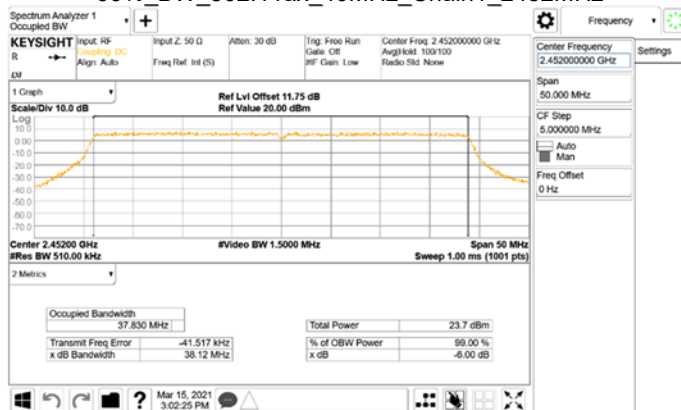
99%_BW_802.11ax_40MHz_Chain1_2437MHz



99%_BW_802.11ax_40MHz_Chain0_2452MHz



99%_BW_802.11ax_40MHz_Chain1_2452MHz



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Beamforming

802.11n_HT20M Ch0	
Freq. (MHz)	99% BW (MHz)
2412	17.641
2437	17.578
2462	17.538

802.11n_HT20M Ch1	
Freq. (MHz)	99% BW (MHz)
2412	17.603
2437	17.537
2462	17.571

802.11n_HT40M Ch0	
Freq. (MHz)	99% BW (MHz)
2422	35.998
2437	36.012
2452	36.142

802.11n_HT40M Ch1	
Freq. (MHz)	99% BW (MHz)
2422	35.994
2437	35.887
2452	36.125

802.11ax_HE20M Ch0	
Freq. (MHz)	99% BW (MHz)
2412	18.94
2437	18.892
2462	18.867

802.11ax_HE20M Ch1	
Freq. (MHz)	99% BW (MHz)
2412	18.961
2437	18.884
2462	18.923

802.11ax_HE40M Ch0	
Freq. (MHz)	99% BW (MHz)
2422	37.602
2437	37.644
2452	37.753

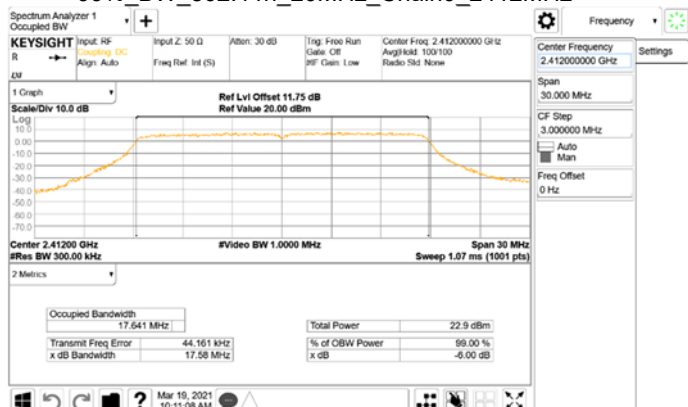
802.11ax_HE40M Ch1	
Freq. (MHz)	99% BW (MHz)
2422	37.741
2437	37.635
2452	37.854

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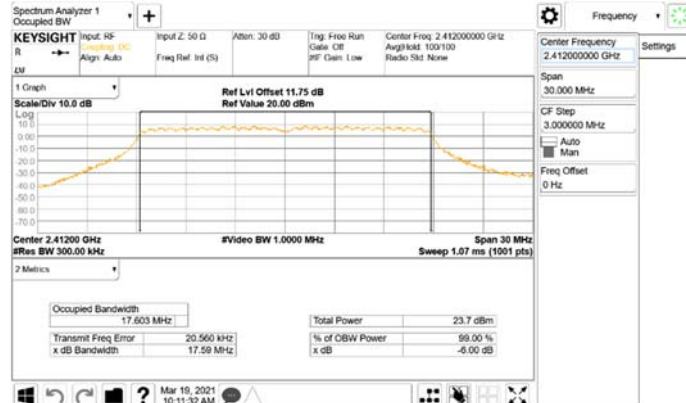
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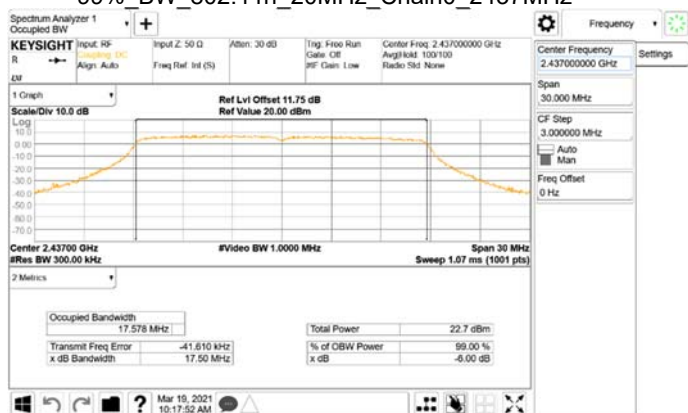
99% BW_802.11n_20MHz_Chain0_2412MHz



99% BW_802.11n_20MHz_Chain1_2412MHz



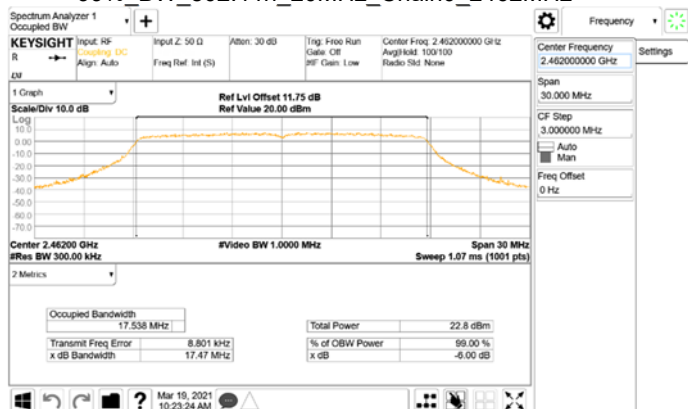
99% BW_802.11n_20MHz_Chain0_2437MHz



99% BW_802.11n_20MHz_Chain1_2437MHz



99% BW_802.11n_20MHz_Chain0_2462MHz



99% BW_802.11n_20MHz_Chain1_2462MHz

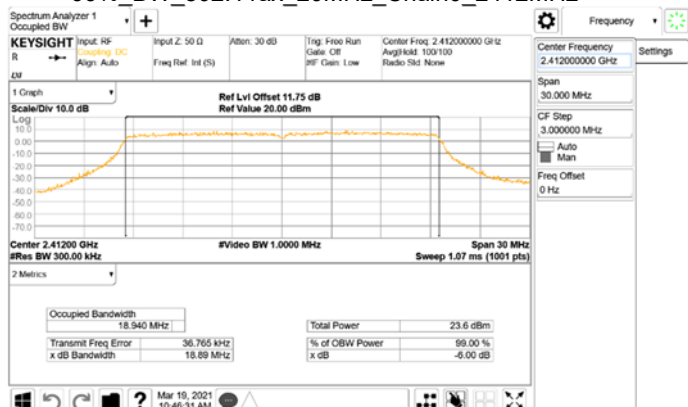


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99% BW_802.11ax_20MHz_Chain0_2412MHz



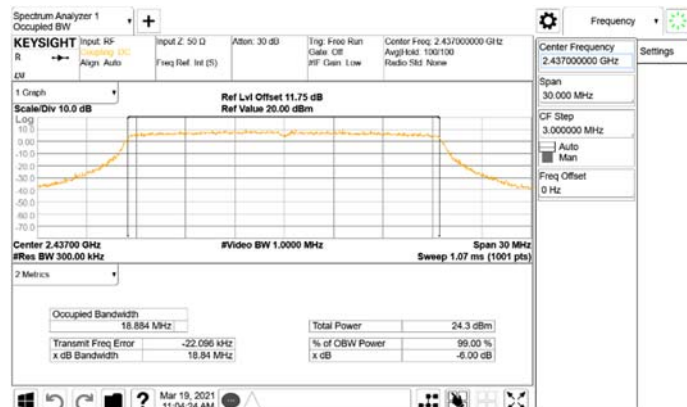
99% BW_802.11ax_20MHz_Chain1_2412MHz



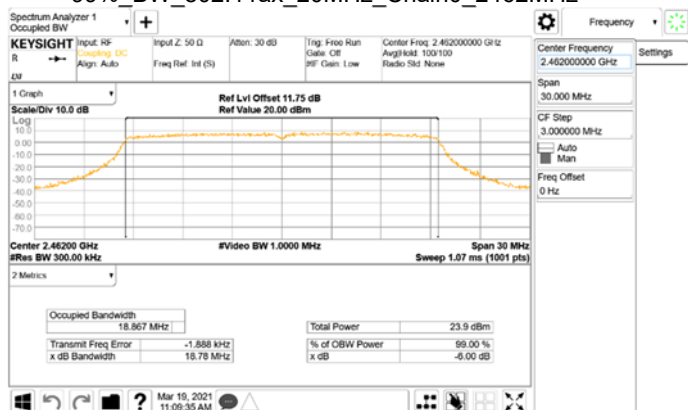
99% BW_802.11ax_20MHz_Chain0_2437MHz



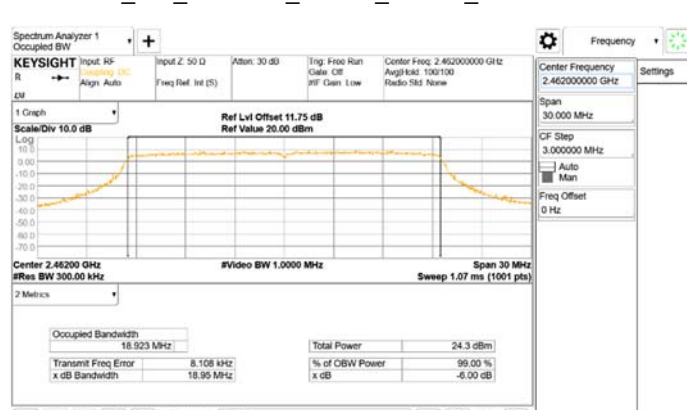
99% BW_802.11ax_20MHz_Chain1_2437MHz



99% BW_802.11ax_20MHz_Chain0_2462MHz



99% BW_802.11ax_20MHz_Chain1_2462MHz

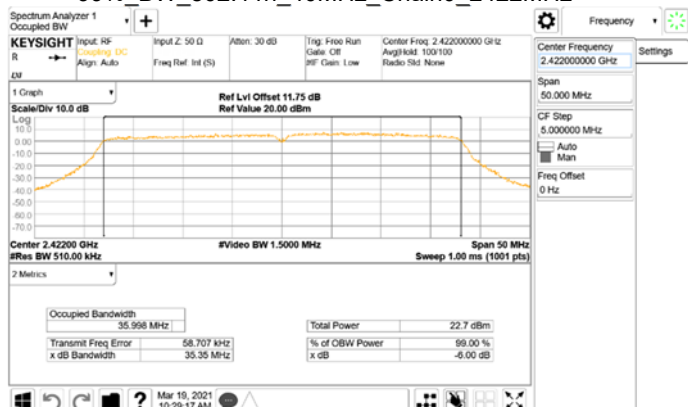


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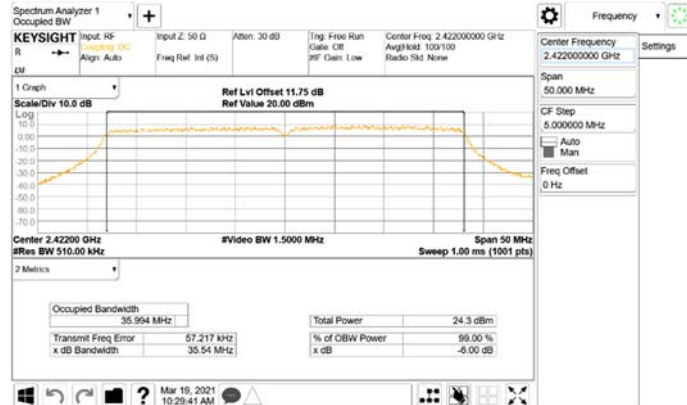
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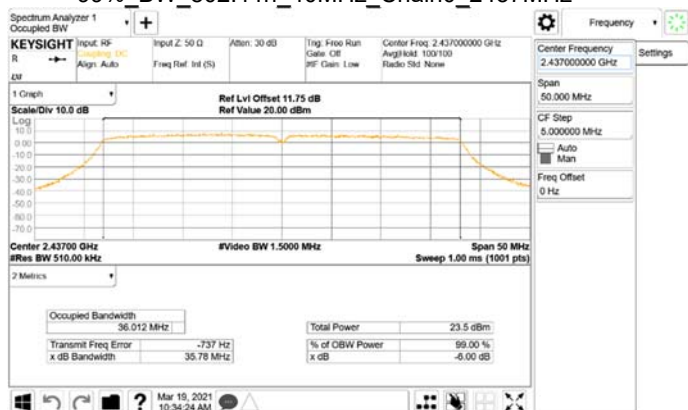
99% BW_802.11n_40MHz_Chain0_2422MHz



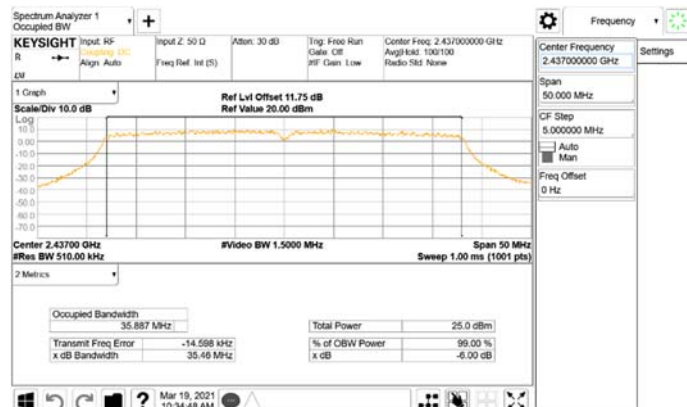
99% BW_802.11n_40MHz_Chain1_2422MHz



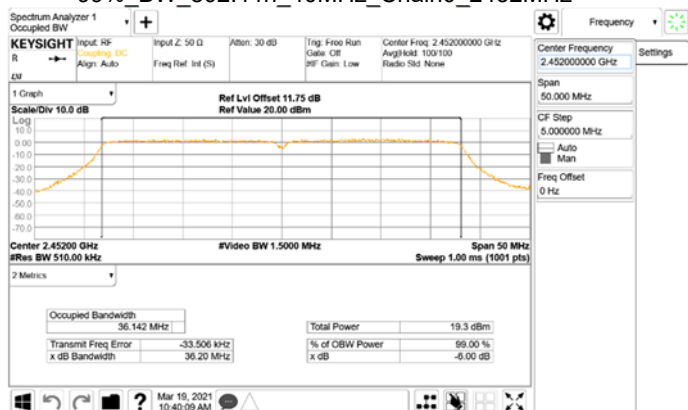
99% BW_802.11n_40MHz_Chain0_2437MHz



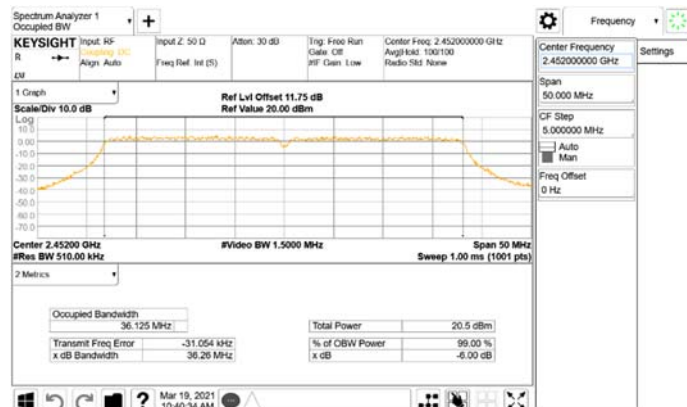
99% BW_802.11n_40MHz_Chain1_2437MHz



99% BW_802.11n_40MHz_Chain0_2452MHz



99% BW_802.11n_40MHz_Chain1_2452MHz

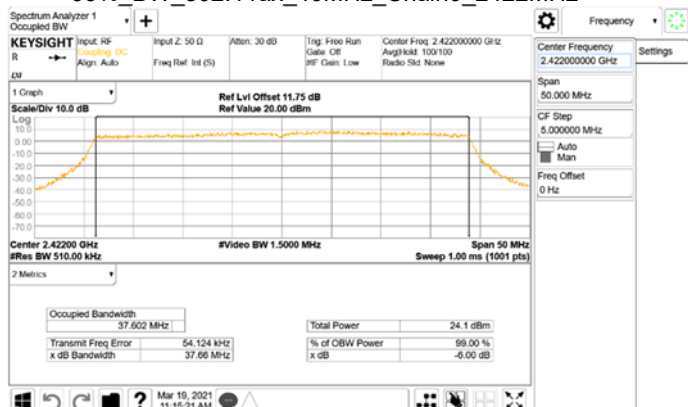


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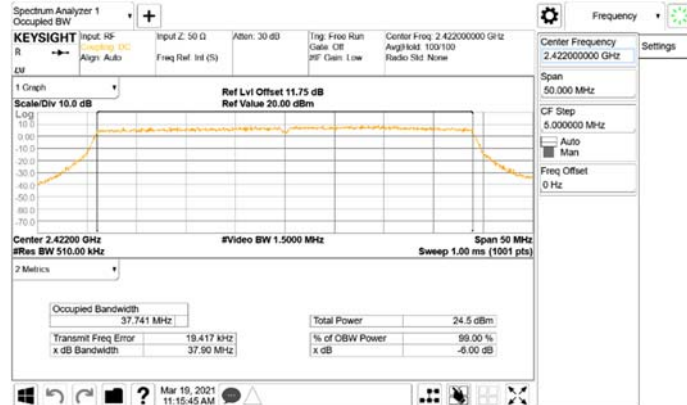
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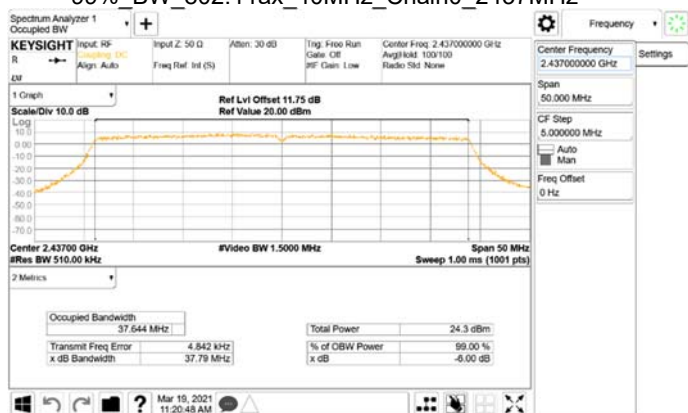
99% BW_802.11ax_40MHz_Chain0_2422MHz



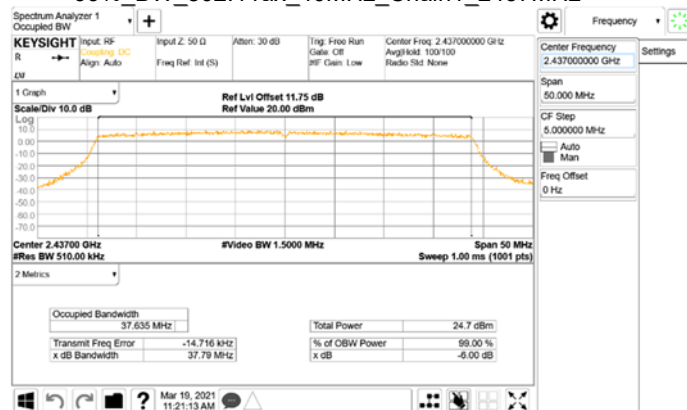
99% BW 802.11ax 40MHz Chain1 2422MHz



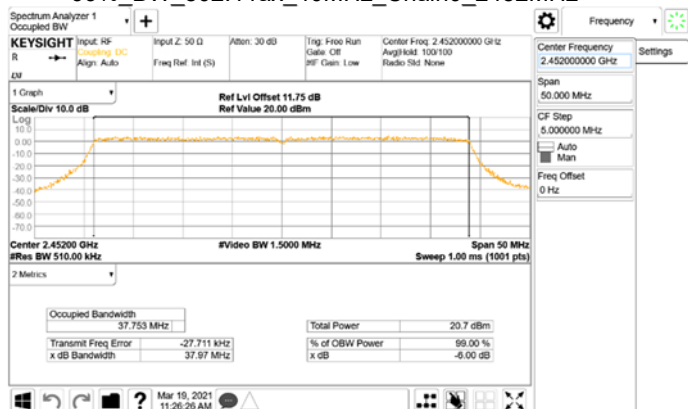
99% BW_802.11ax_40MHz_Chain0_2437MHz



99% BW_802.11ax_40MHz_Chain1_2437MHz



99% BW_802.11ax_40MHz_Chain0_2452MHz



99% BW_802.11ax_40MHz_Chain1_2452MHz



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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

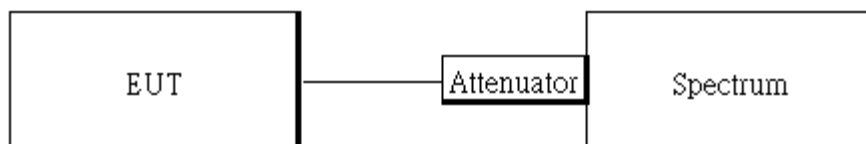
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a) & RSS-Gen §8.10, must also comply with the radiated emission limits specified in §15.209(a) & RSS-Gen §8.9.

10.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60240503	12/11/2020	12/10/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021

10.3 Test SET-UP



10.4 Measurement Procedure

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Reference Level of Emission Limit:

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 100kHz & VBW = 300 kHz.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

Conducted Band Edge:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
6. Mark the highest reading of the emission as the reference level measurement.
7. Set DL as the limit = reading on marker of reference level measurement – 20dBm
8. Mark the highest readings of the emissions outside of 2400MHz~2483.5MHz.
9. Repeat above procedures until all default test channel (low, middle, and high) was complete.
10. MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

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Conducted Spurious Emission:

1. To connect Antenna Port of EUT to Spectrum
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set RBW = 100 kHz & VBW= 300 kHz, Detector =Peak, Sweep = Auto.
4. Allow trace to fully stabilize.
5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
6. Repeat above procedures until all default test channel measured were complete.
7. MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

Note:

For test of MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.

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10.5 Measurement Result

CDD

Reference Level of Limit 802.11b mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	18.72	-1.28
2437	18.93	-1.07
2462	18.89	-1.11

Reference Level of Limit 802.11ax20 mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	9.82	-10.18
2437	9.93	-10.07
2462	10.56	-9.44

Reference Level of Limit 802.11g mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	10.35	-9.65
2437	10.69	-9.31
2462	11.28	-8.72

Reference Level of Limit 802.11n40 MODE		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2422	8.35	-11.65
2437	8.79	-11.21
2452	4.1	-15.90

Reference Level of Limit 802.11n20 mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	10.94	-9.06
2437	10.47	-9.53
2462	11.39	-8.61

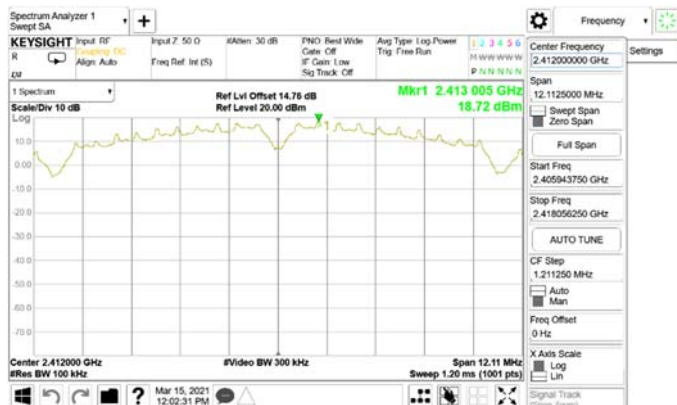
Reference Level of Limit 802.11ax40 MODE		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2422	8.24	-11.76
2437	7.34	-12.66
2452	3.76	-16.24

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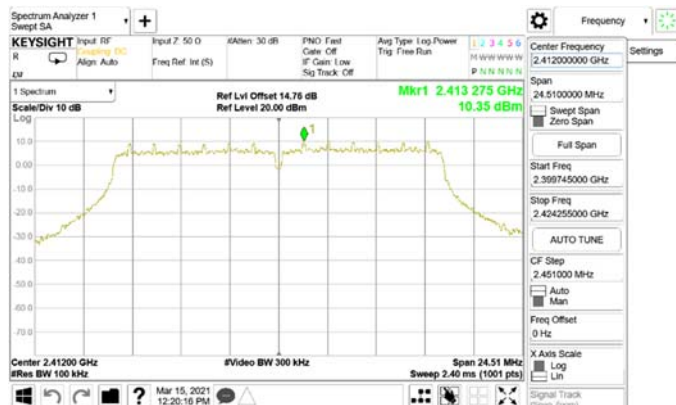
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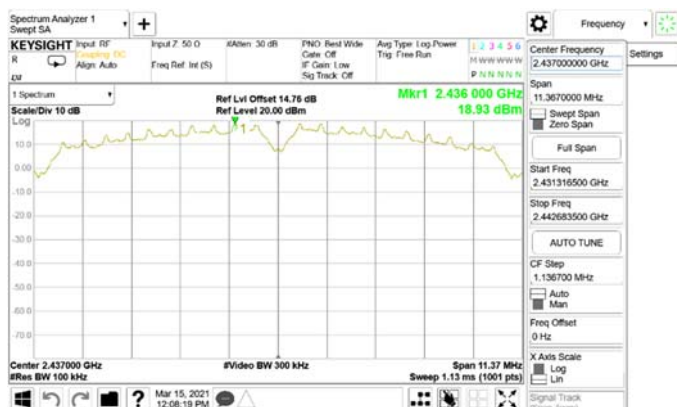
Reference Level_802.11b_20MHz_Chain0_2412MHz



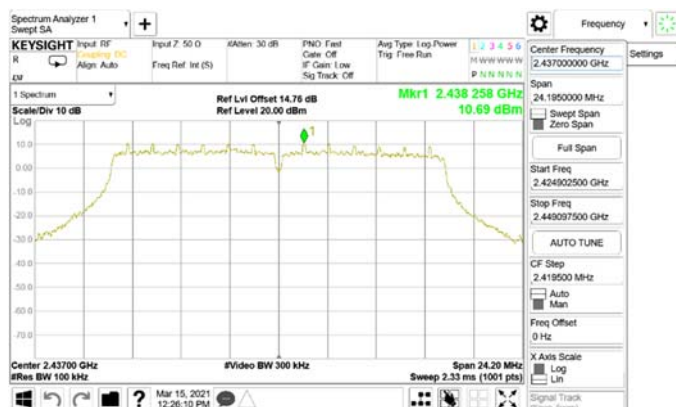
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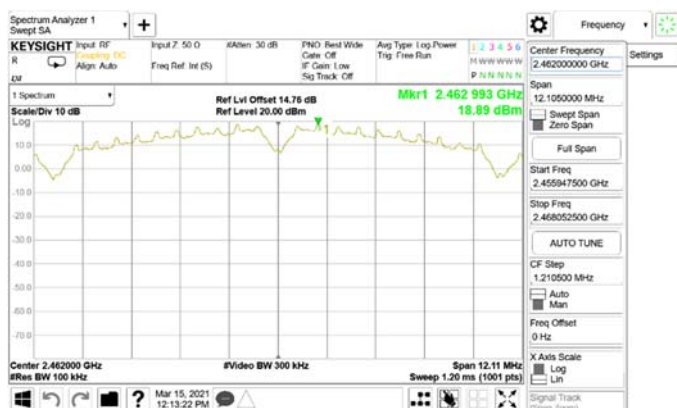
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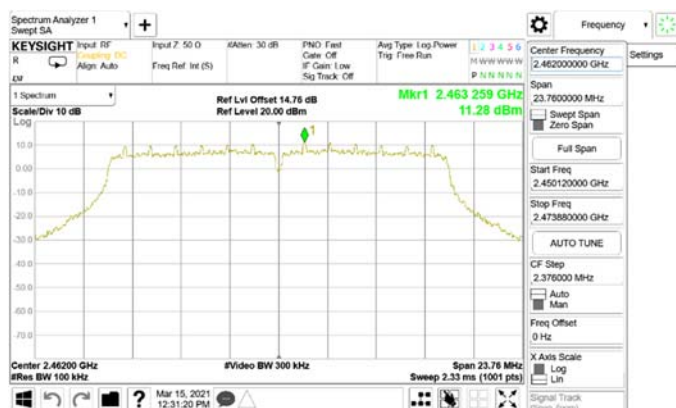
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Reference Level_802.11b_20MHz_Chain0_2462MHz



Reference Level_802.11g_20MHz_Chain0_2462MHz

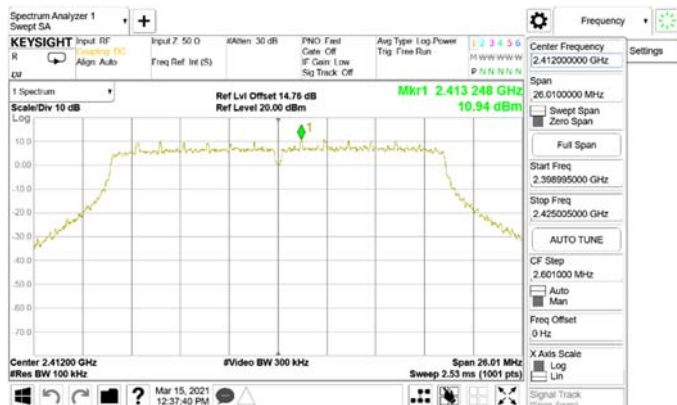


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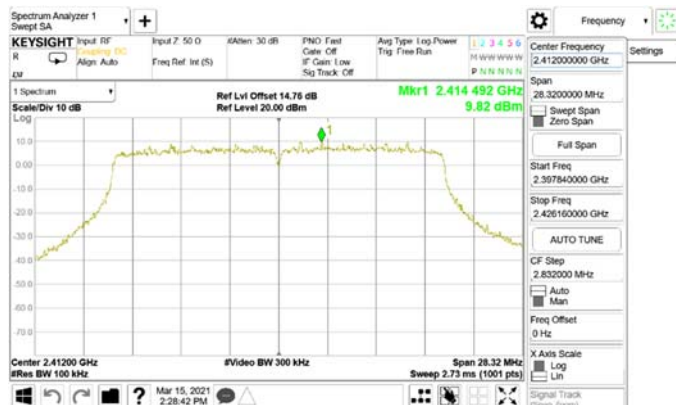
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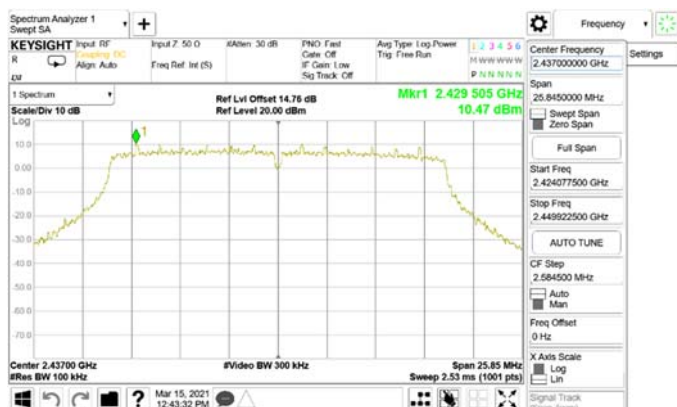
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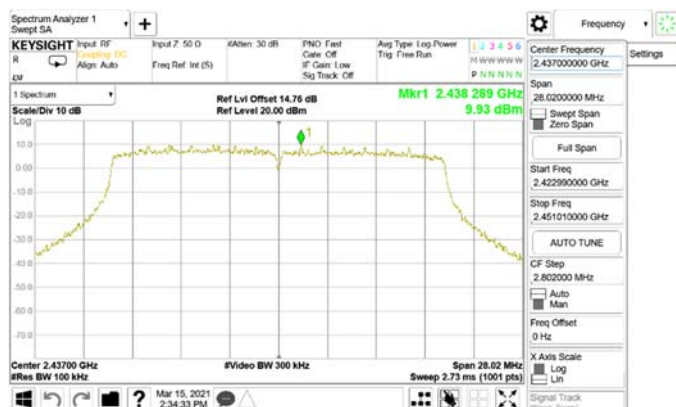
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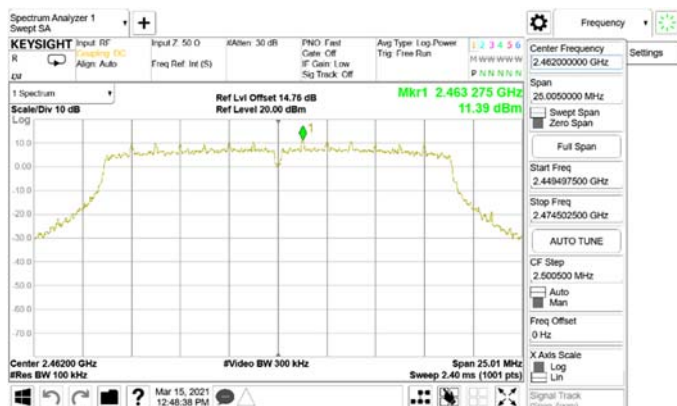
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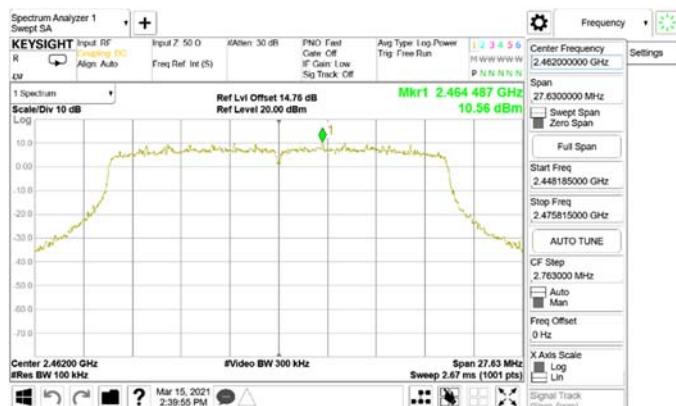
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Reference Level_802.11n_20MHz_Chain0_2462MHz



Reference Level_802.11ax_20MHz_Chain0_2462MHz

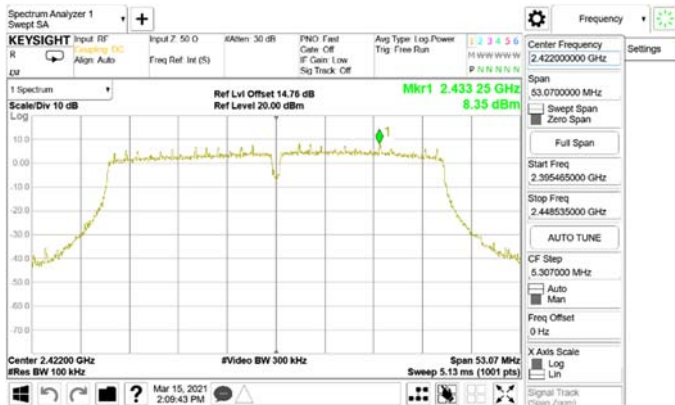


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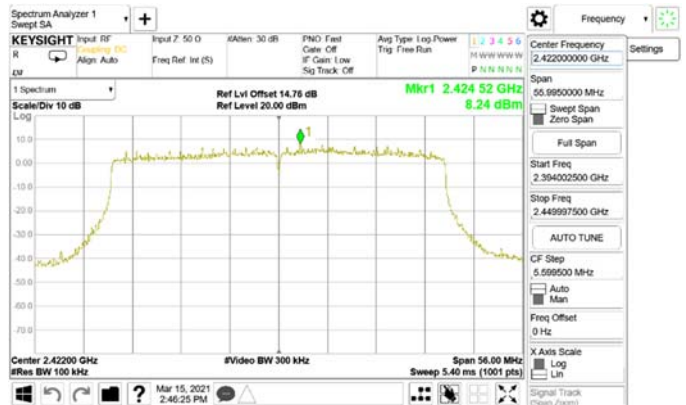
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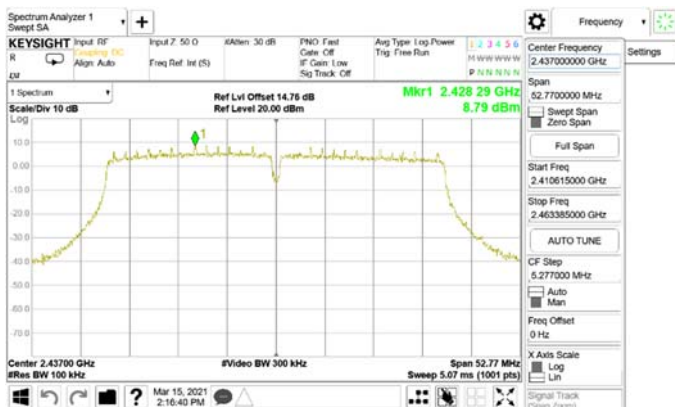
Reference Level_802.11n_40MHz_Chain0_2422MHz



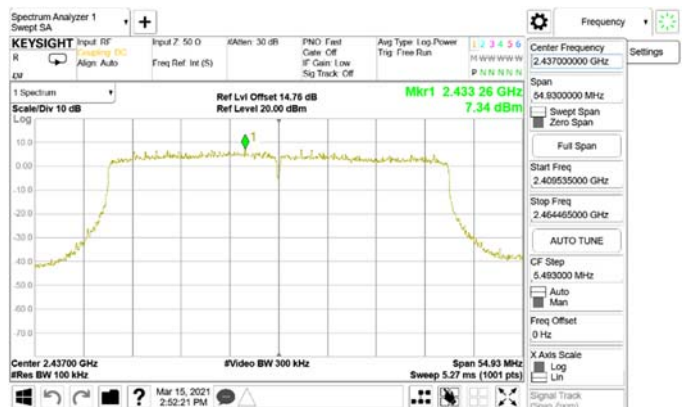
Reference Level_802.11ax_40MHz_Chain0_2422MHz



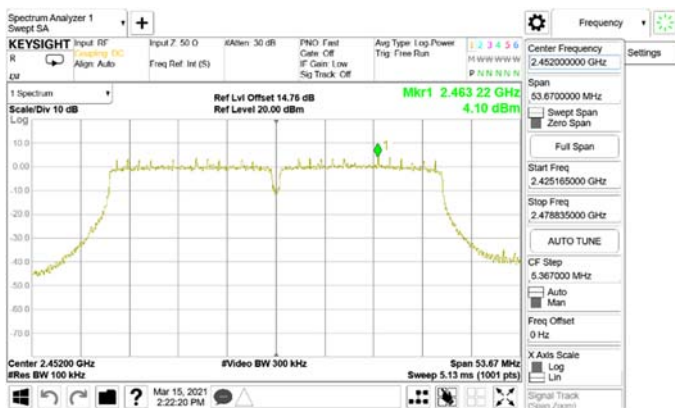
Reference Level_802.11n_40MHz_Chain0_2437MHz



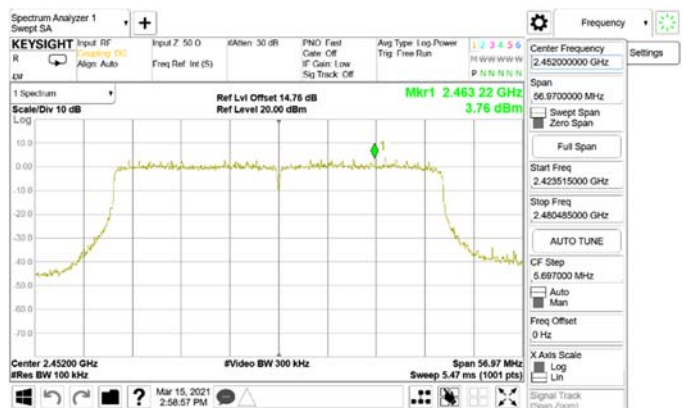
Reference Level_802.11ax_40MHz_Chain0_2437MHz



Reference Level_802.11n_40MHz_Chain0_2452MHz



Reference Level_802.11ax_40MHz_Chain0_2452MHz

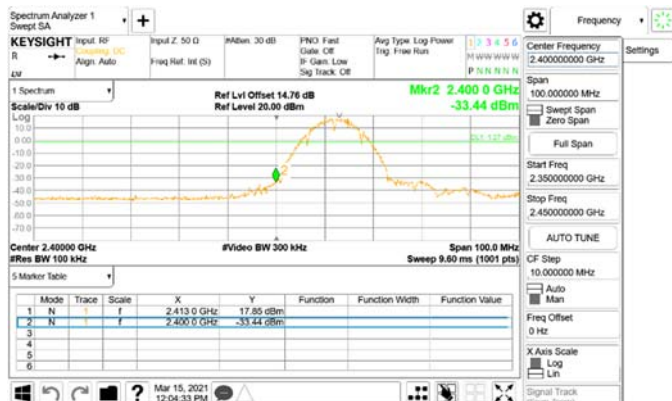


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Bandedge_802.11b_20MHz_Chain0_2412MHz



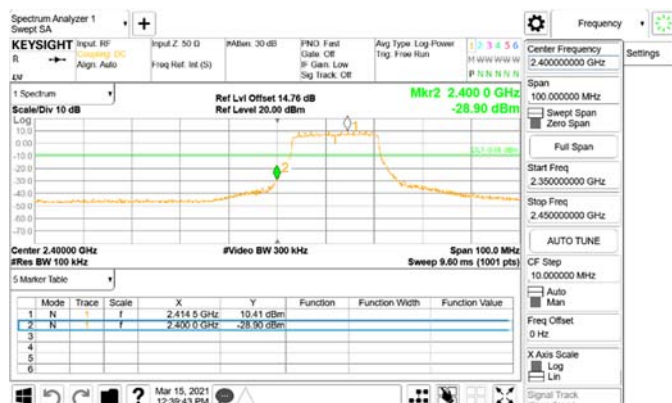
Bandedge_802.11g_20MHz_Chain0_2462MHz



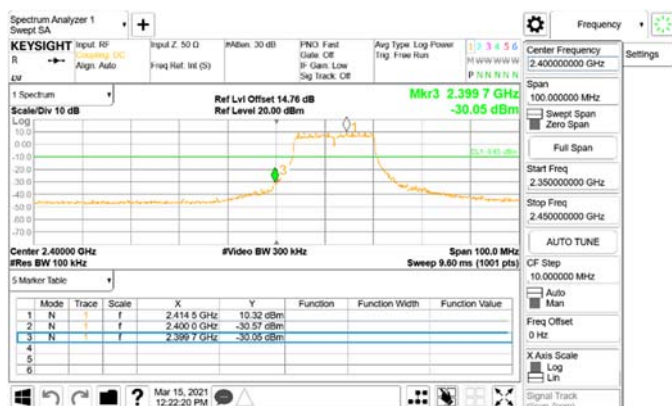
Bandedge_802.11b_20MHz_Chain0_2462MHz



Bandedge_802.11n_20MHz_Chain0_2412MHz



Bandedge_802.11g_20MHz_Chain0_2412MHz



Bandedge_802.11n_20MHz_Chain0_2462MHz

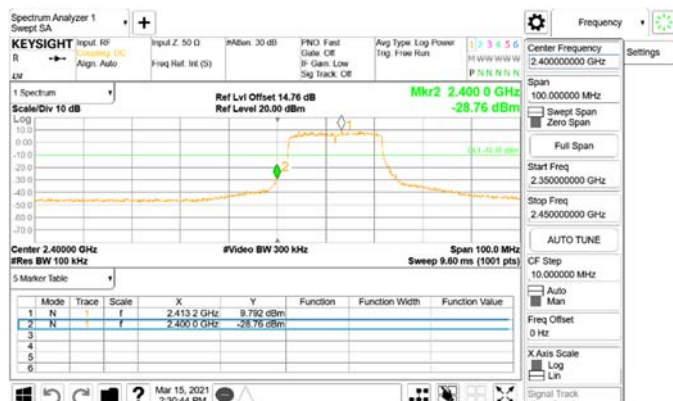


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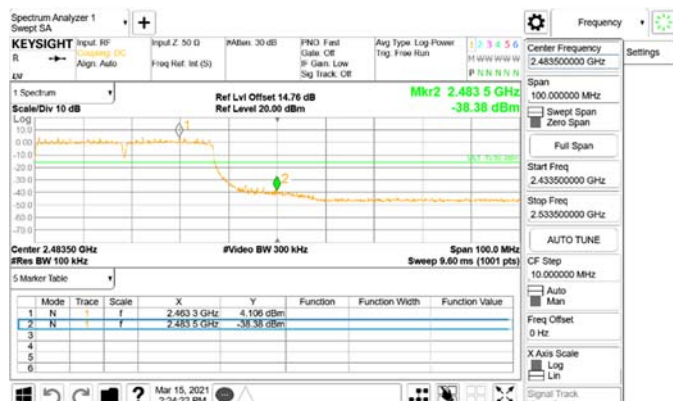
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Bandedge_802.11ax_20MHz_Chain0_2412MHz



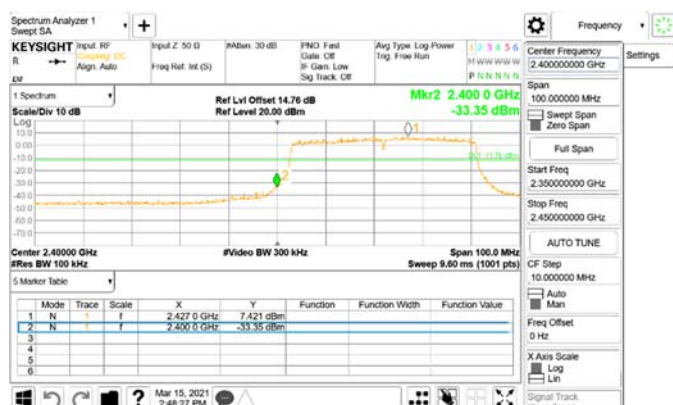
Bandedge_802.11n_40MHz_Chain0_2452MHz



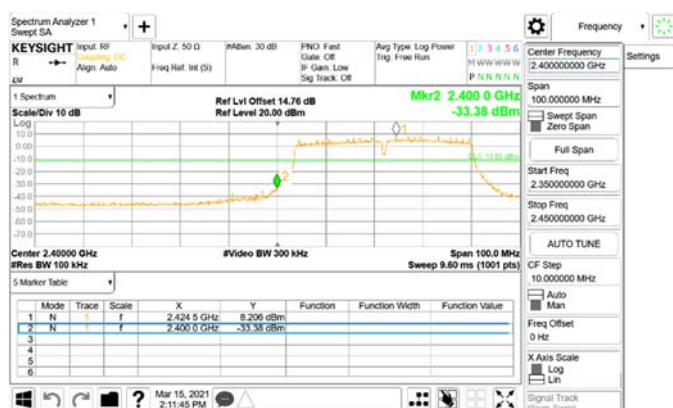
Bandedge_802.11ax_20MHz_Chain0_2462MHz



Bandedge_802.11ax_40MHz_Chain0_2422MHz



Bandedge_802.11n_40MHz_Chain0_2422MHz



Bandedge_802.11ax_40MHz_Chain0_2452MHz



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Spurious Emission_802.11b_20MHz_Chain0_2412MHz



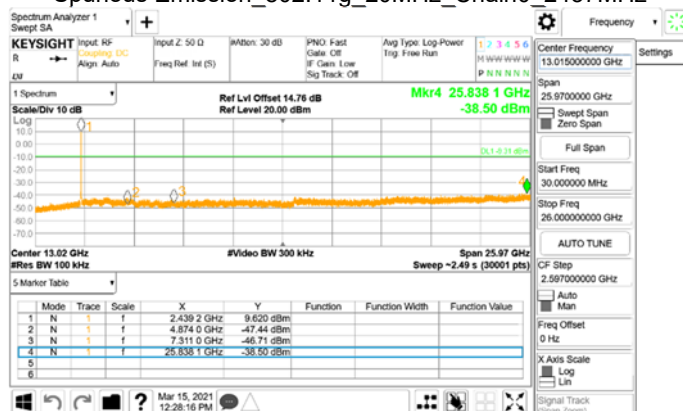
Spurious Emission_802.11g_20MHz_Chain0_2412MHz



Spurious Emission_802.11b_20MHz_Chain0_2437MHz



Spurious Emission_802.11g_20MHz_Chain0_2437MHz



Spurious Emission_802.11b_20MHz_Chain0_2462MHz



Spurious Emission_802.11g_20MHz_Chain0_2462MHz

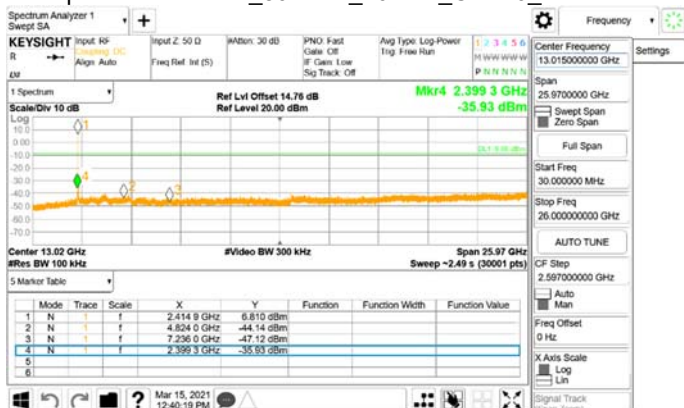


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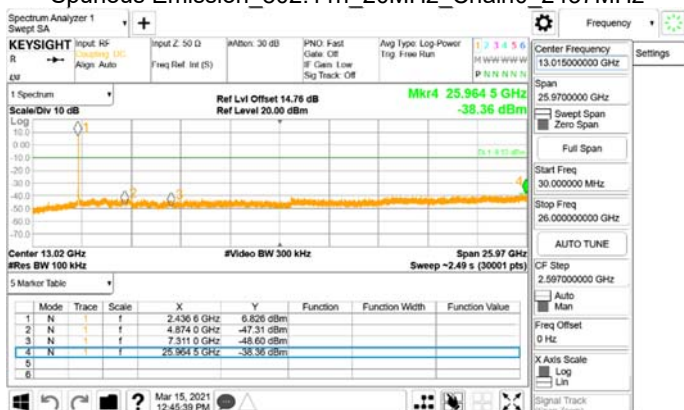
Spurious Emission_802.11n_20MHz_Chain0_2412MHz



Spurious Emission_802.11ax_20MHz_Chain0_2412MHz



Spurious Emission_802.11n_20MHz_Chain0_2437MHz



Spurious Emission_802.11ax_20MHz_Chain0_2437MHz



Spurious Emission_802.11n_20MHz_Chain0_2462MHz



Spurious Emission_802.11ax_20MHz_Chain0_2462MHz



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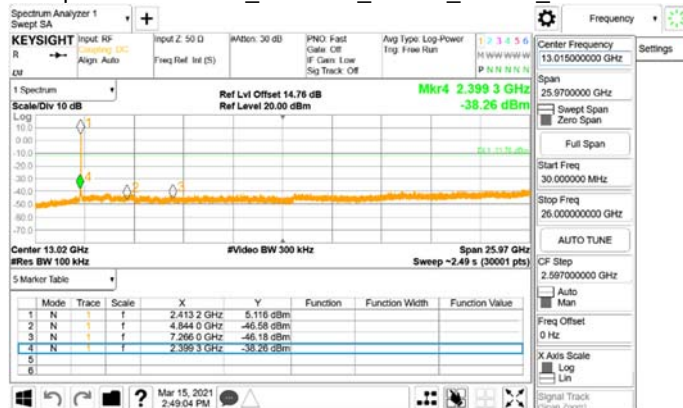
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Spurious Emission_802.11n_40MHz_Chain0_2422MHz



Spurious Emission_802.11ax_40MHz_Chain0_2422MHz



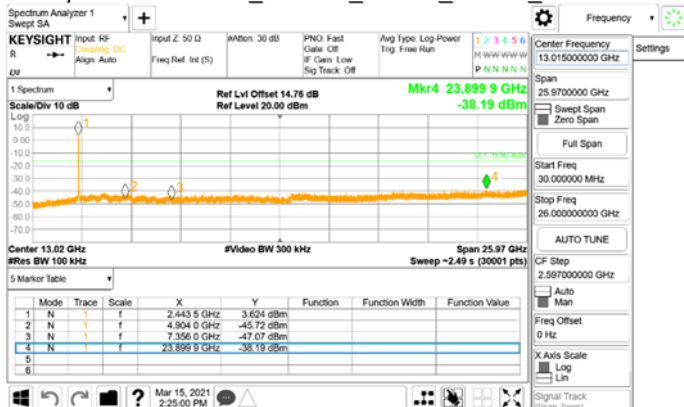
Spurious Emission_802.11n_40MHz_Chain0_2437MHz



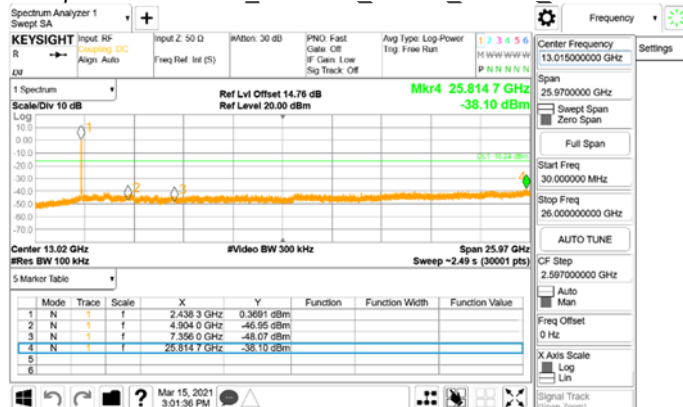
Spurious Emission_802.11ax_40MHz_Chain0_2437MHz



Spurious Emission_802.11n_40MHz_Chain0_2452MHz



Spurious Emission_802.11ax_40MHz_Chain0_2452MHz



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Beamforming

Reference Level of Limit 802.11n20 mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	8.08	-11.92
2437	7.65	-12.35
2462	8.24	-11.76

Reference Level of Limit 802.11ax20 mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	7.05	-12.95
2437	7.21	-12.79
2462	7.74	-12.26

Reference Level of Limit 802.11n40 MODE		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2422	5.22	-14.78
2437	6.21	-13.79
2452	0.99	-19.01

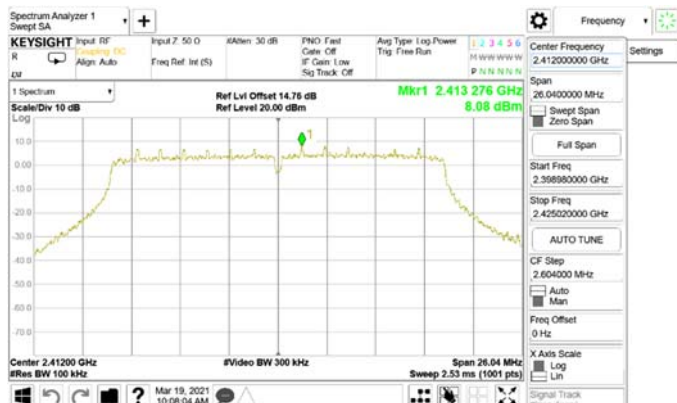
Reference Level of Limit 802.11ax40 MODE		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2422	4.67	-15.33
2437	5.04	-14.96
2452	0.7	-19.30

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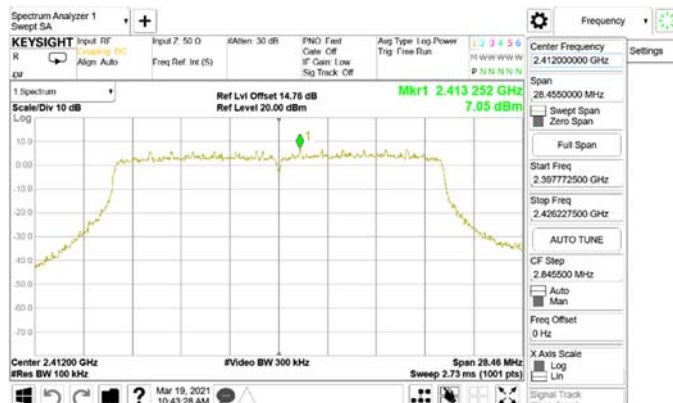
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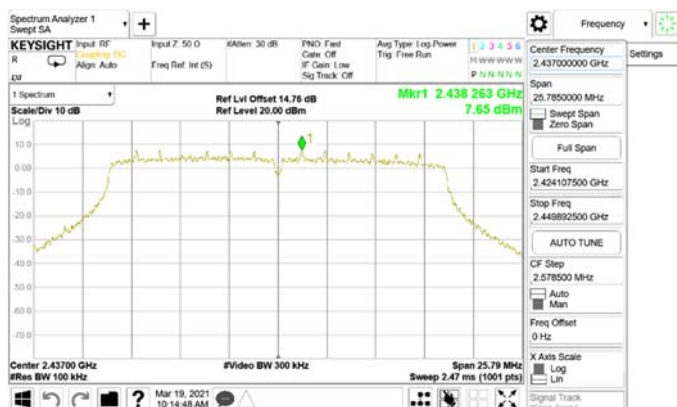
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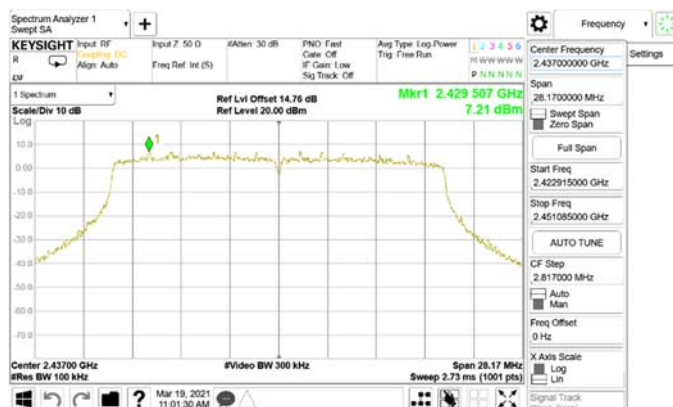
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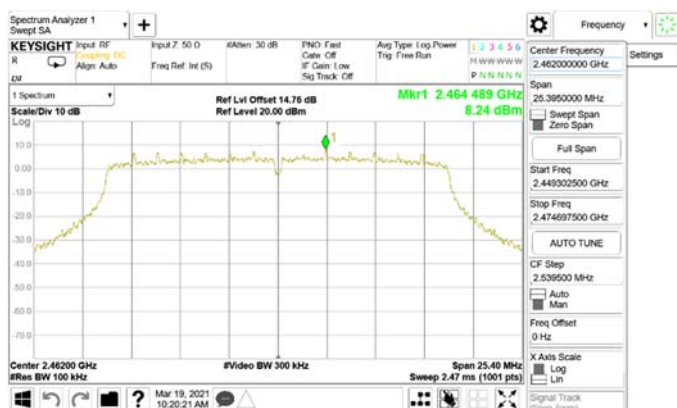
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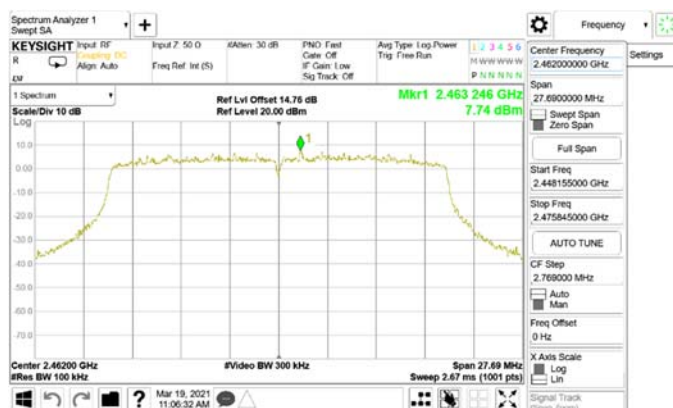
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Reference Level_802.11n_20MHz_Chain0_2462MHz



Reference Level_802.11ax_20MHz_Chain0_2462MHz

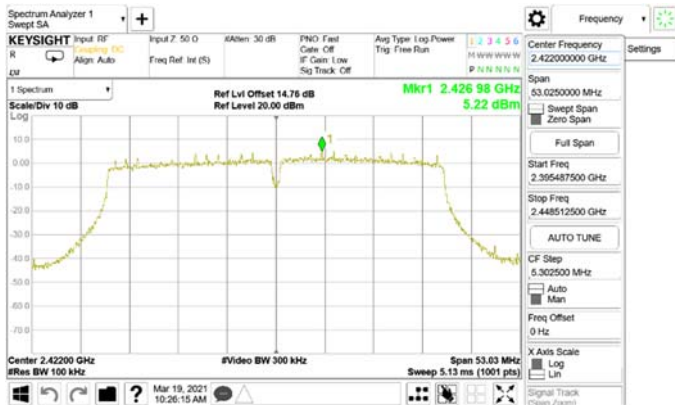


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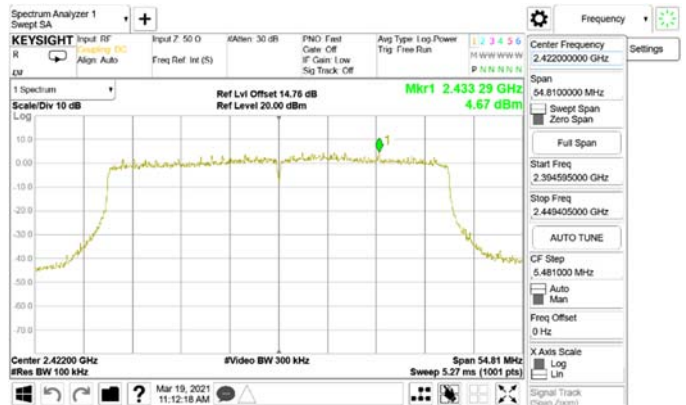
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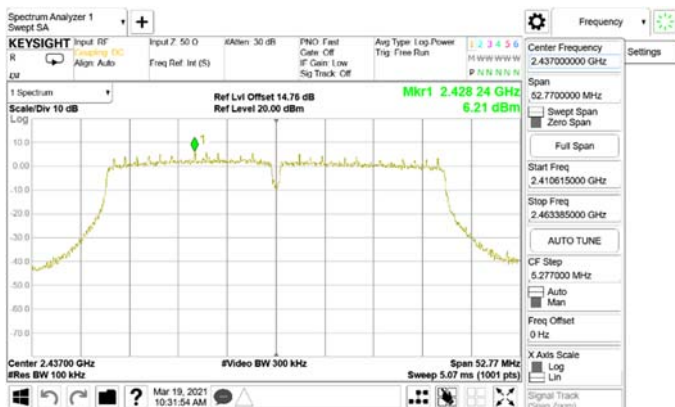
Reference Level_802.11n_40MHz_Chain0_2422MHz



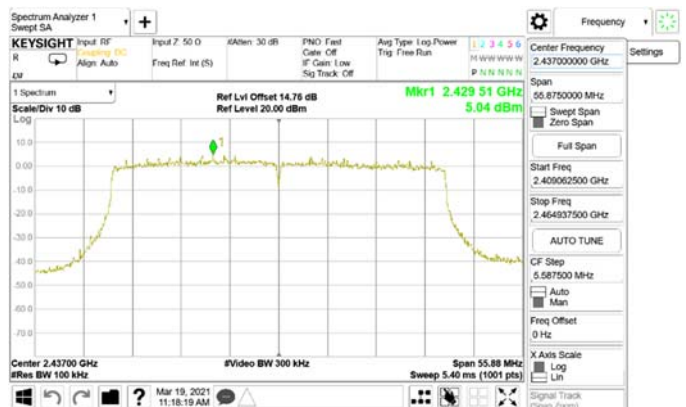
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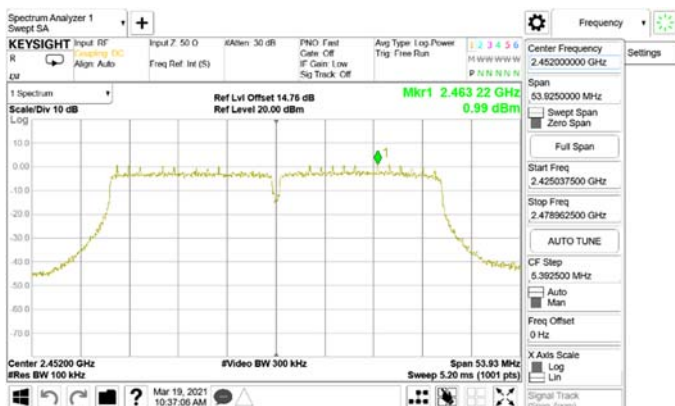
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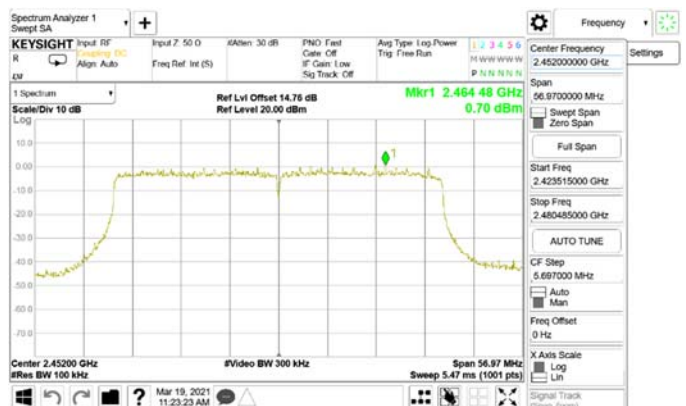
Reference Level_802.11ax_40MHz_Chain0_2437MHz



Reference Level_802.11n_40MHz_Chain0_2452MHz



Reference Level_802.11ax_40MHz_Chain0_2452MHz

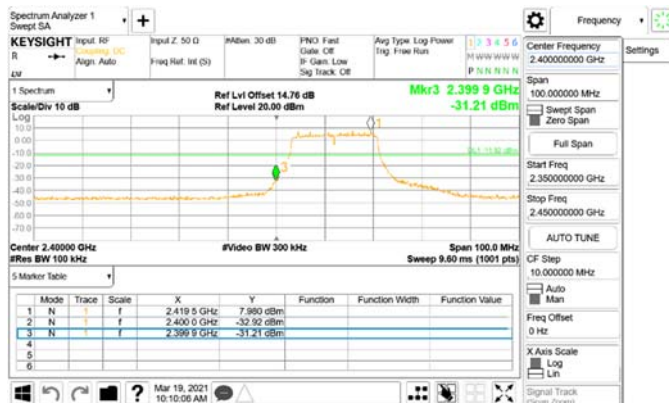


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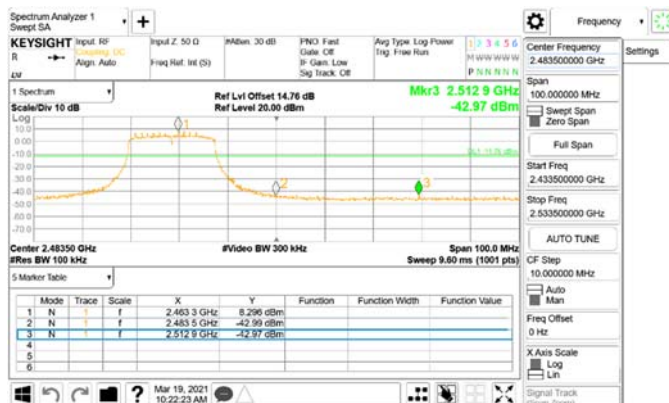
Bandedge_802.11n_20MHz_Chain0_2412MHz



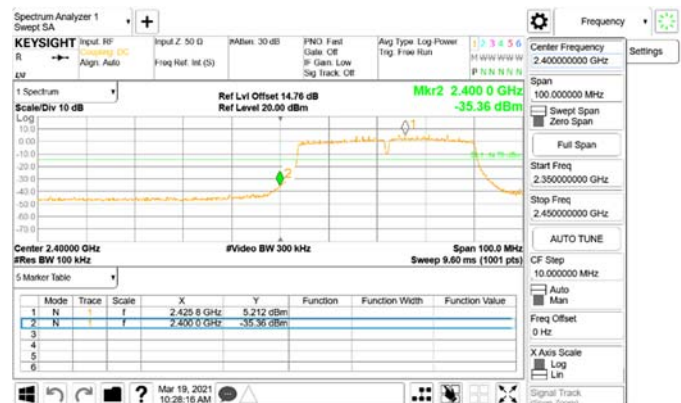
Bandedge_802.11ax_20MHz_Chain0_2462MHz



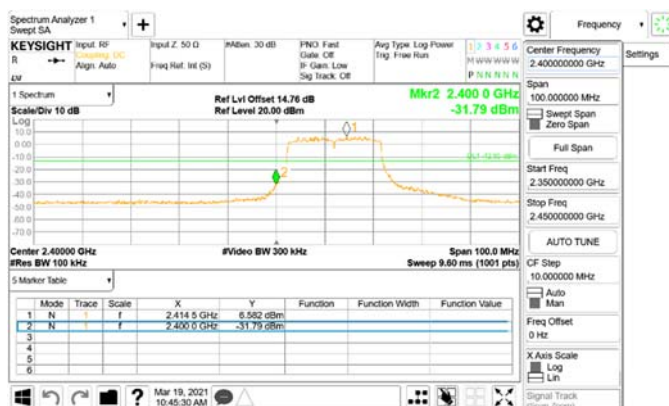
Bandedge_802.11n_20MHz_Chain0_2462MHz



Bandedge_802.11n_40MHz_Chain0_2422MHz



Bandedge_802.11ax_20MHz_Chain0_2412MHz



Bandedge_802.11n_40MHz_Chain0_2452MHz

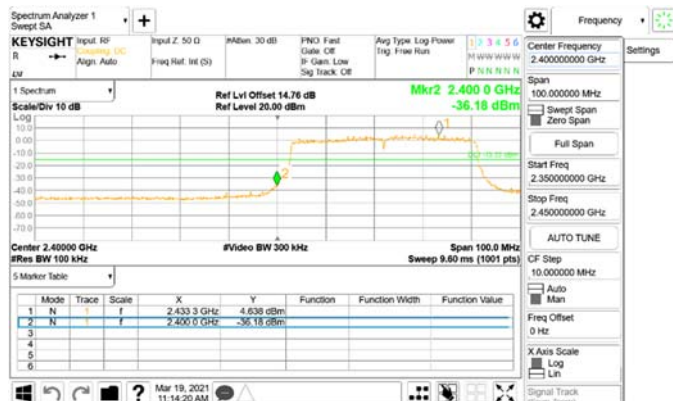


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Bandedge_802.11ax_40MHz_Chain0_2422MHz



Bandedge_802.11ax_40MHz_Chain0_2452MHz

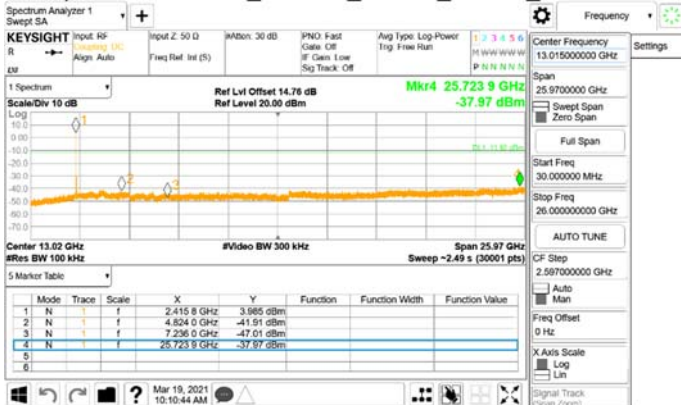


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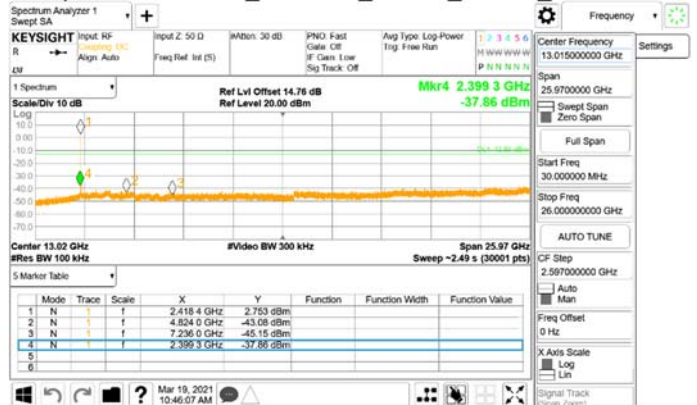
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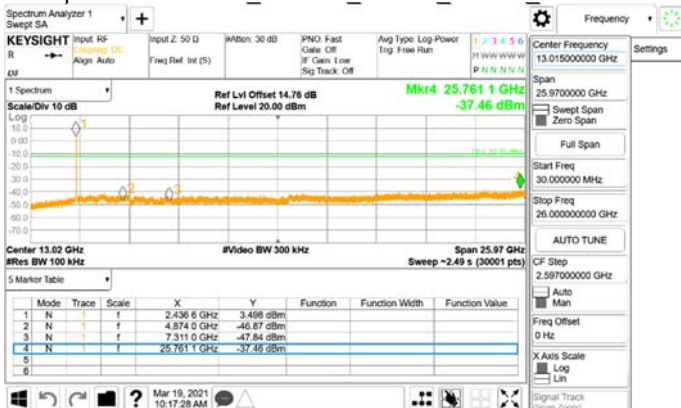
Spurious Emission_802.11n_20MHz_Chain0_2412MHz



Spurious Emission_802.11ax_20MHz_Chain0_2412MHz



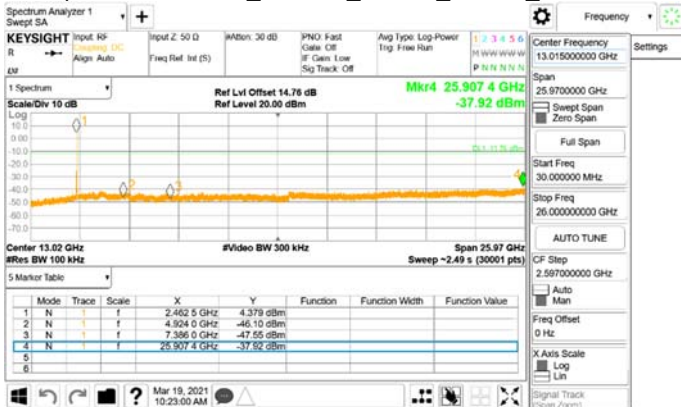
Spurious Emission_802.11n_20MHz_Chain0_2437MHz



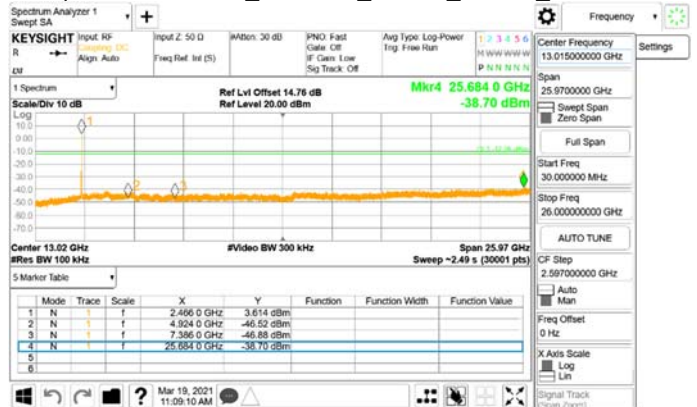
Spurious Emission_802.11ax_20MHz_Chain0_2437MHz



Spurious Emission_802.11n_20MHz_Chain0_2462MHz



Spurious Emission_802.11ax_20MHz_Chain0_2462MHz

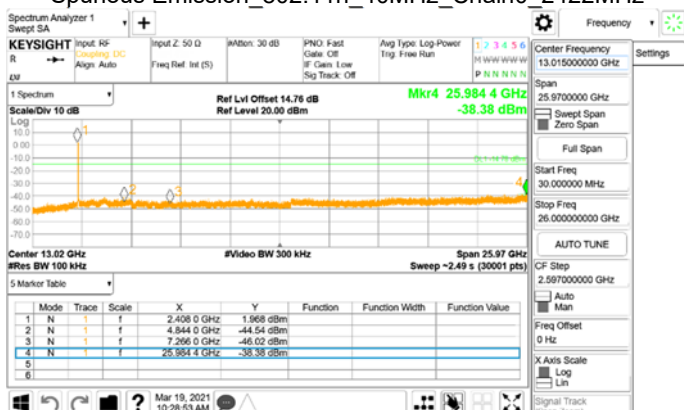


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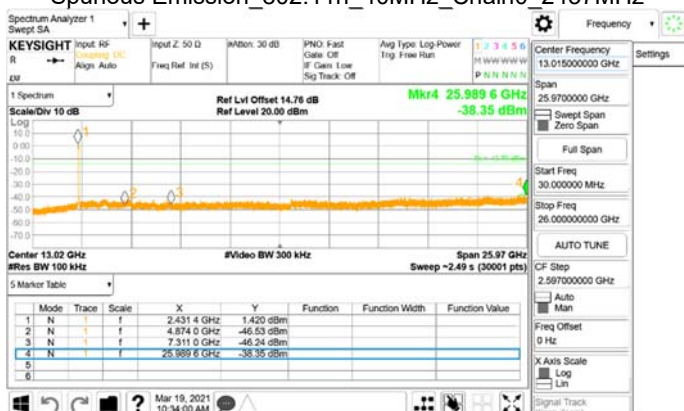
Spurious Emission_802.11n_40MHz_Chain0_2422MHz



Spurious Emission_802.11ax_40MHz_Chain0_2422MHz



Spurious Emission_802.11n_40MHz_Chain0_2437MHz



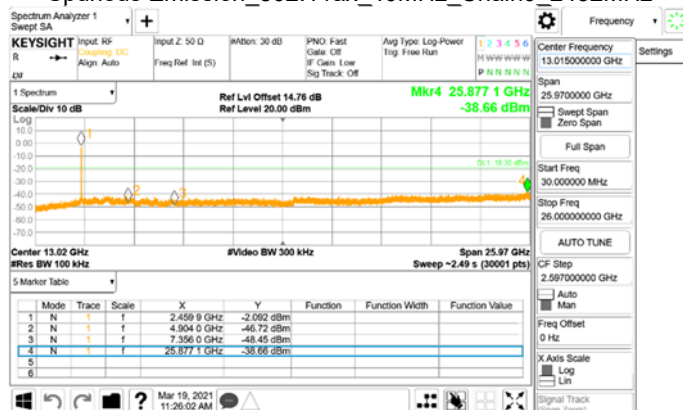
Spurious Emission_802.11ax_40MHz_Chain0_2437MHz



Spurious Emission_802.11n_40MHz_Chain0_2452MHz



Spurious Emission_802.11ax_40MHz_Chain0_2452MHz



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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 Standard Applicable

Radiated emissions which fall in the restricted bands must also comply with the §15.209 and RSS-Gen §8.9 Table 5 and 6 limit as below.

And according to §15.33(a) (1) & RSS-Gen §6.13.2.a, for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBμV/m) = 20 log Emission level (μV/m)

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11.2 Measurement Equipment Used:

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	Schwarzbeck	BBHA9170	184	12/11/2020	12/10/2021
Horn Antenna	Schwarzbeck	BBHA9120D	1441	10/16/2020	10/15/2021
Bi-log Antenna	SCHWAZBECK	VULB9168	378	08/06/2020	08/05/2021
Loop Antenna	ETS.LINDGREN	6502	148045	10/19/2020	10/18/2021
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/21/2020	04/20/2021
EMI Test Receiver	R&S	ESCI 7	100759	07/13/2020	07/12/2021
Pre-Amplifier	HP	8449B	3008A00578	12/16/2020	12/15/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	12/16/2020	12/15/2021
Pre-Amplifier	HP	8447D	2944A07676	12/16/2020	12/15/2021
Attenuator	Mini-Circuit	BW-S10W2+	4	12/16/2020	12/15/2021
Filter 2400-2483.5 MHz	EWT	EWT-14-0166	M1	12/16/2020	12/15/2021
High Pass Filter	WI	WHKX4.0/18G-10SS	22	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2636/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	340057/4	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104PEA	800052/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2621/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2617/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2630/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY22962/2	12/16/2020	12/15/2021
Site Cal	SGS	SAC III chamber	N/A	01/01/2021	12/31/2021
Test Software	audix	e3	Ver. 6.11-20180413	N.C.R	N.C.R

NOTE: N.C.R refers to Not Calibrated Required.

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SPOT CHECK

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	SCHWARZBECK	BBHA9120D	D803	12/20/2021	12/19/2022
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	01/03/2022	01/02/2023
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/16/2021	12/15/2022
Loop Antenna	ETS.LINDGREN	6502	148045	09/29/2021	09/28/2022
Site Cal	SGS	SAC I chamber	N/A	01/01/2022	12/31/2022
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	05/12/2021	05/11/2022
EMI Test Receiver	R&S	ESCI 7	100759	08/26/2021	08/25/2022
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2021	10/26/2022
Pre-Amplifier	HP	8449B	3008A01973	12/16/2021	12/15/2022
Pre-Amplifier	HP	8447D	2944A09469	12/16/2021	12/15/2022
Attenuator	Mini-Circuit	BW-S10W2+	4	12/14/2021	12/13/2022
Bandreject Filter 2400-2483.5	EWT	EWT-14-0166	M1	12/14/2021	12/13/2022
3.2GHz High Pass Filter	WI	WHKX10-2624-80SS	3	12/14/2021	12/13/2022
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	EMC 104-SM-SM-2000	160123	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2630/2	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY22962/2	12/16/2021	12/15/2022

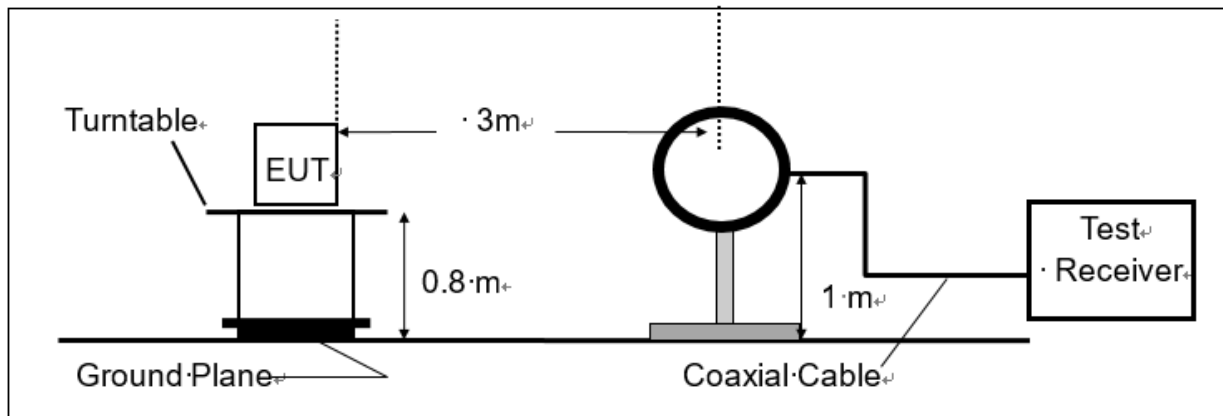
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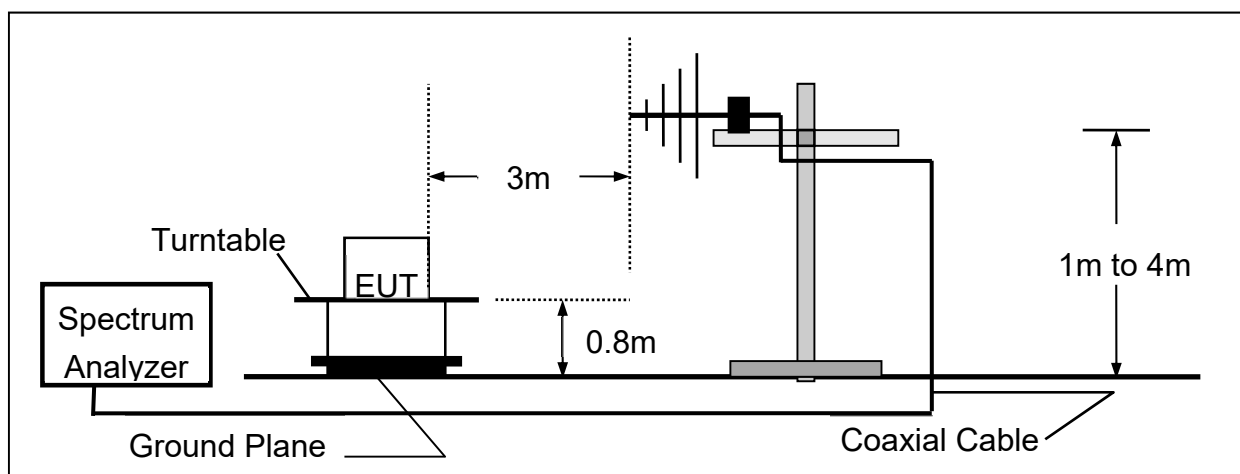
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11.3 Test SET-UP

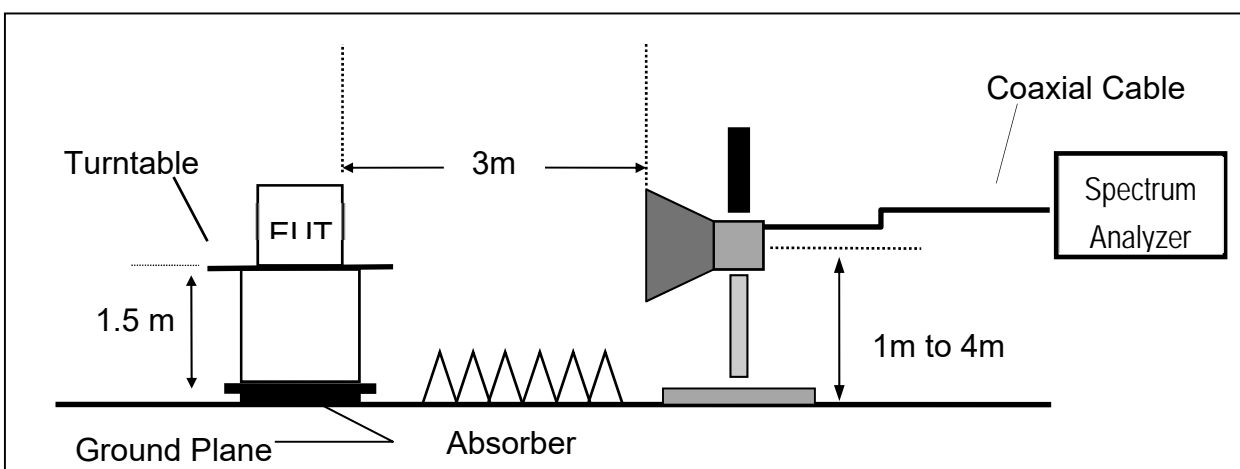
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-UP, Frequency form 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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11.4 Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
9. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
12. Repeat above procedures until all default test channel measured were complete.

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11.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where *FS* = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

The limit of the emission level is expressed in dBuV/m, which converts $20 \cdot \log(\mu V/m)$

Actual FS(dBuV/m) = SPA. Reading level(dBuV) + Factor(dB)

Factor(dB) = Antenna Factor(dBuV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

11.6 Test Results of Radiated Spurious Emissions form 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) & RSS-GEN §6.13.2 was not reported.

11.7 Measurement Result

Note:

1. Refer to next page spectrum analyzer data chart and tabular data sheets.
2. Measurements are completed at peak and average level, the mark of average is the highest emission in restricted bands

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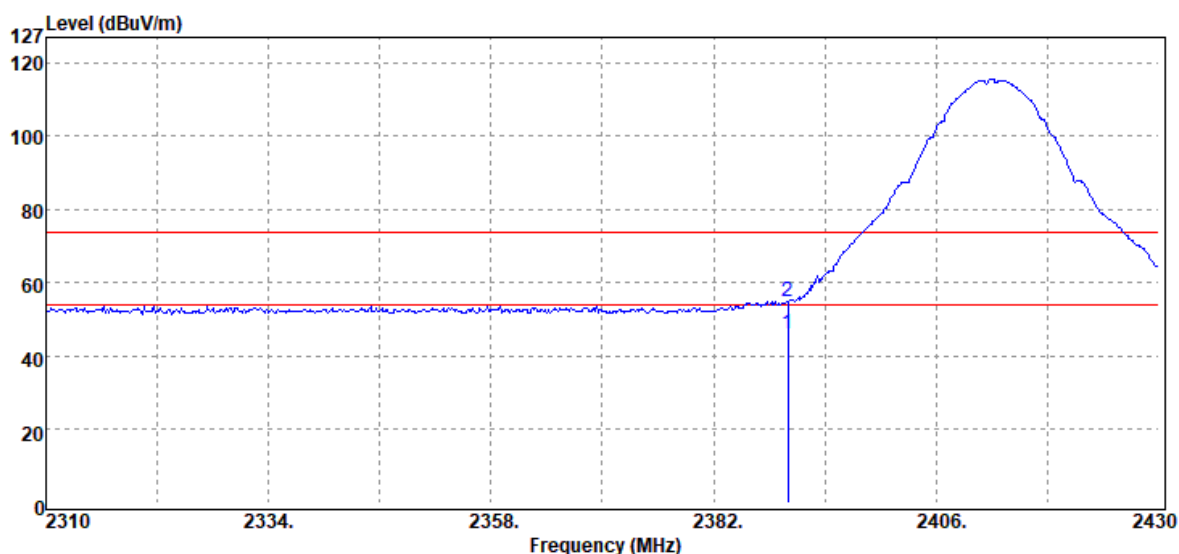
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11.7.1 Radiated Band Edge Measurement Result

CDD

Report Number	:ER-2021-20091	Test Site	:SAC III Chamber
Operation Mode	:802.11b	Test Date	:2021-02-26
Test Frequency	:2412 MHz	Temp./Humi.	:22.2/62
Test Mode	:Bandedge CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2390.00	Average	45.39	0.76	46.15	54.00	-7.85
2390.00	Peak	54.29	0.76	55.05	74.00	-18.95

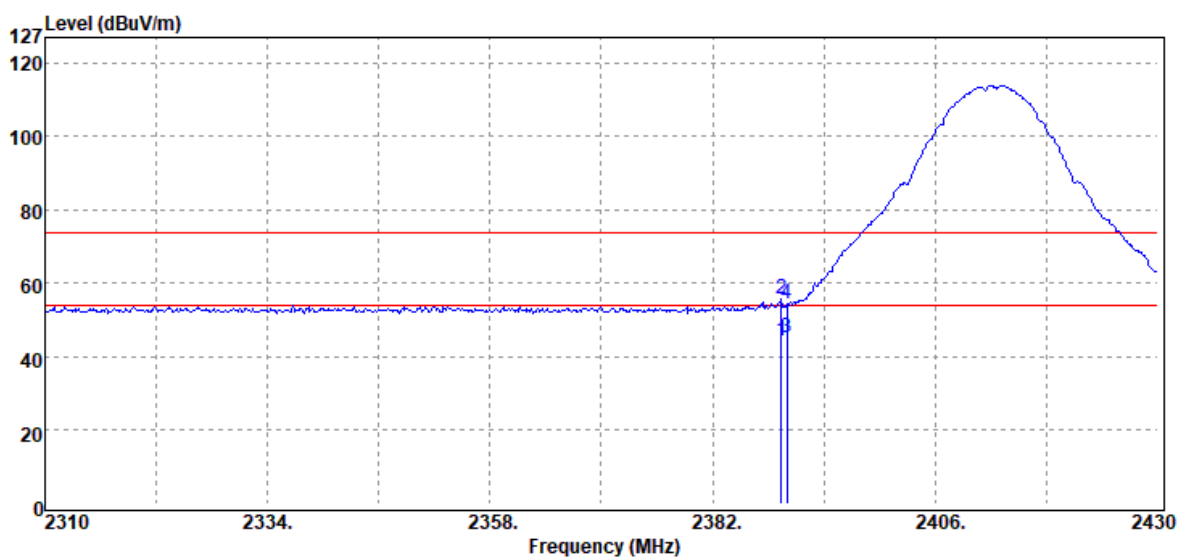
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Report Number :ER-2021-20091
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2389.44	Average	43.63	0.76	44.39	54.00	-9.61
2389.44	Peak	54.90	0.76	55.66	74.00	-18.34
2390.00	Average	44.37	0.76	45.13	54.00	-8.87
2390.00	Peak	53.57	0.76	54.33	74.00	-19.67

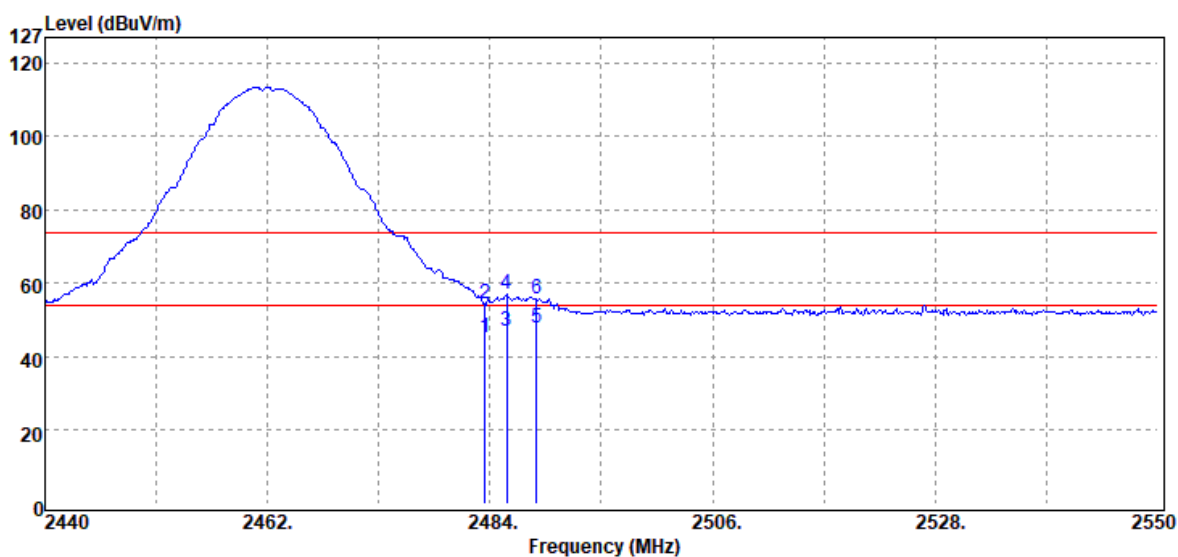
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Report Number :ER-2021-20091
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.50	Average	44.53	0.54	45.07	54.00	-8.93
2483.50	Peak	53.76	0.54	54.30	74.00	-19.70
2485.65	Average	46.66	0.54	47.20	54.00	-6.80
2485.65	Peak	56.37	0.54	56.91	74.00	-17.09
2488.60	Average	47.58	0.53	48.11	54.00	-5.89
2488.60	Peak	55.07	0.53	55.60	74.00	-18.40

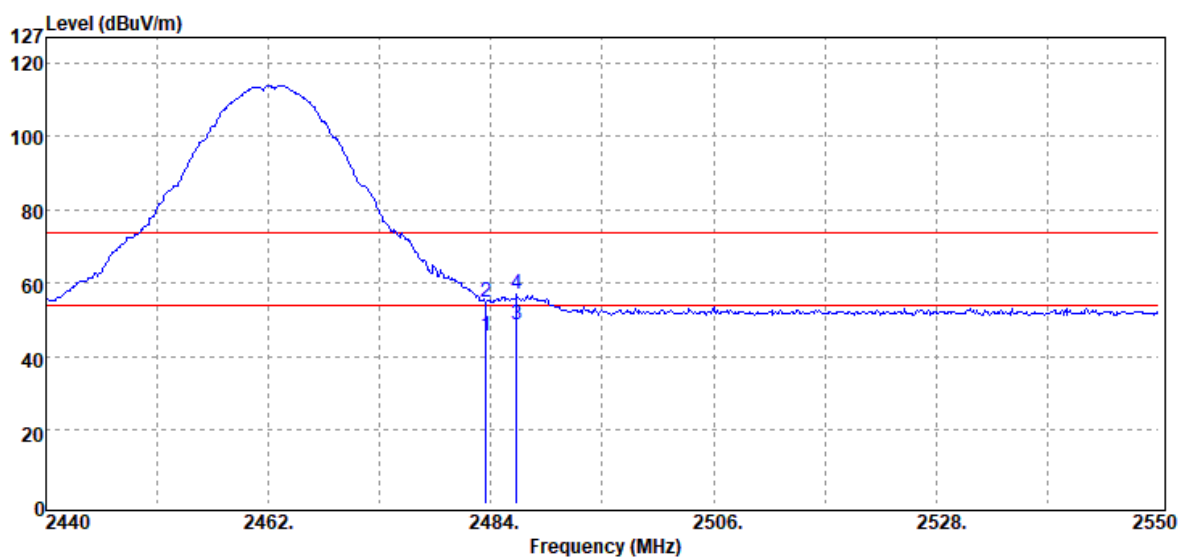
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Report Number :ER-2021-20091
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.50	Average	45.35	0.54	45.89	54.00	-8.11
2483.50	Peak	54.49	0.54	55.03	74.00	-18.97
2486.53	Average	48.28	0.54	48.82	54.00	-5.18
2486.53	Peak	56.42	0.54	56.96	74.00	-17.04

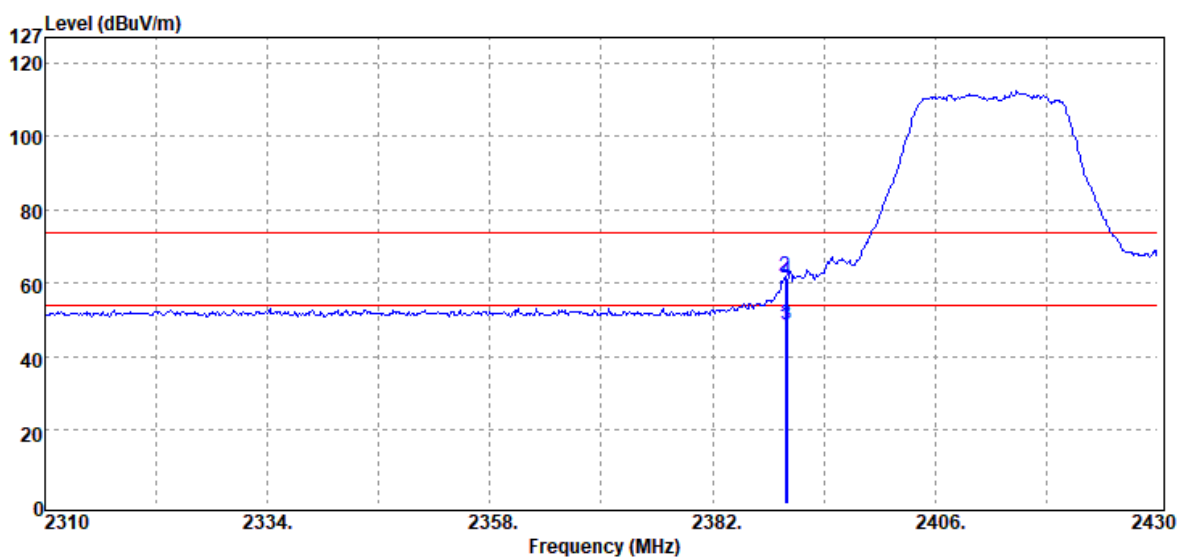
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Report Number :ER-2021-20091
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2389.80	Average	47.67	0.76	48.43	54.00	-5.57
2389.80	Peak	61.17	0.76	61.93	74.00	-12.07
2390.00	Average	48.08	0.76	48.84	54.00	-5.16
2390.00	Peak	60.03	0.76	60.79	74.00	-13.21

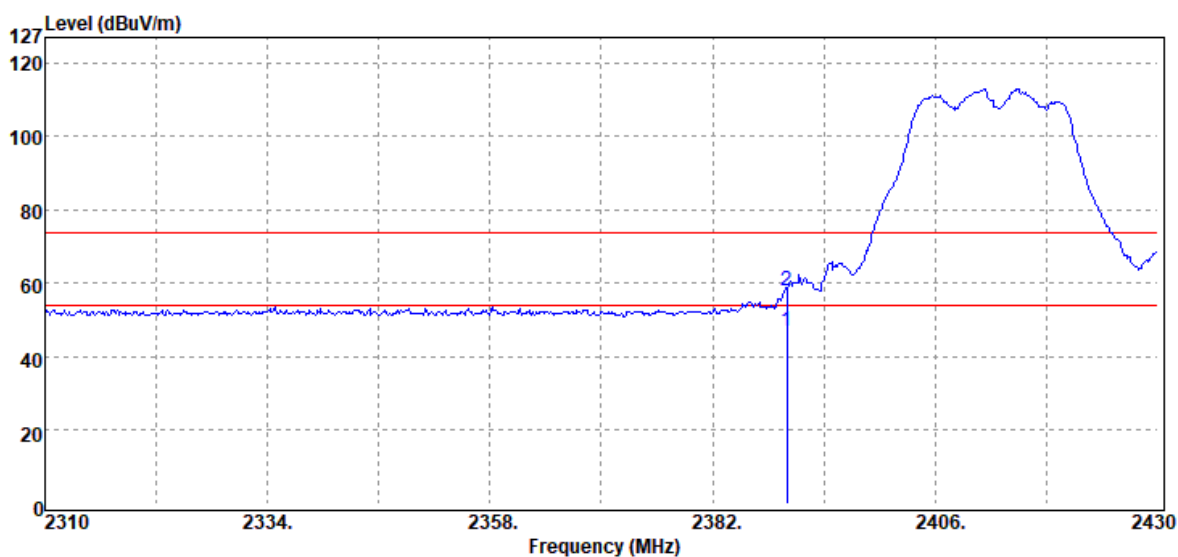
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Report Number :ER-2021-20091
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	Average	46.45	0.76	47.21	54.00	-6.79
2390.00	Peak	57.17	0.76	57.93	74.00	-16.07

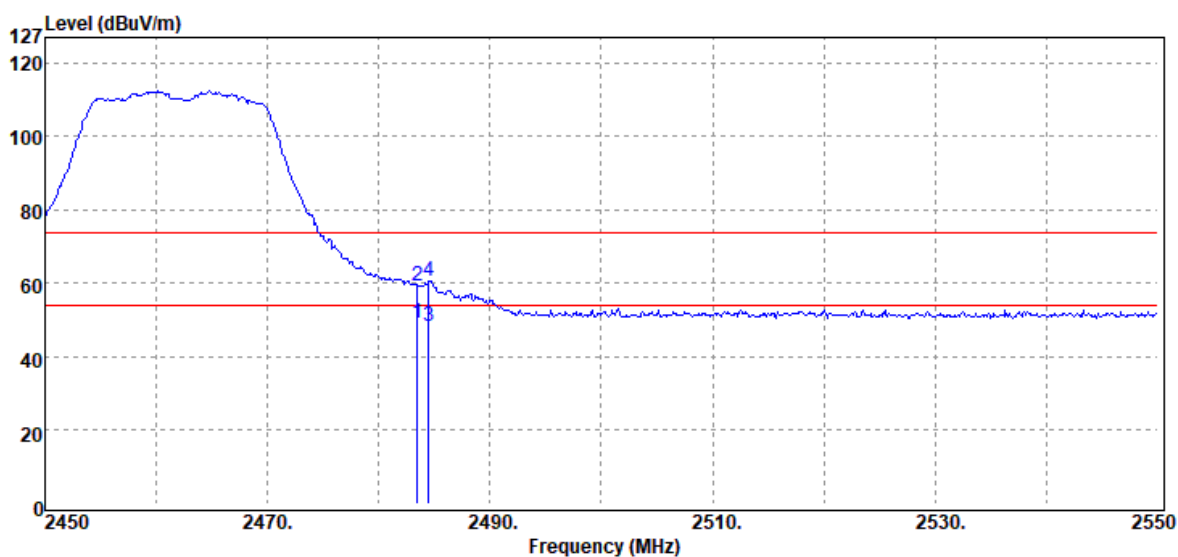
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Report Number :ER-2021-20091
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.50	Average	48.67	0.54	49.21	54.00	-4.79
2483.50	Peak	58.81	0.54	59.35	74.00	-14.65
2484.50	Average	47.89	0.54	48.43	54.00	-5.57
2484.50	Peak	60.32	0.54	60.86	74.00	-13.14

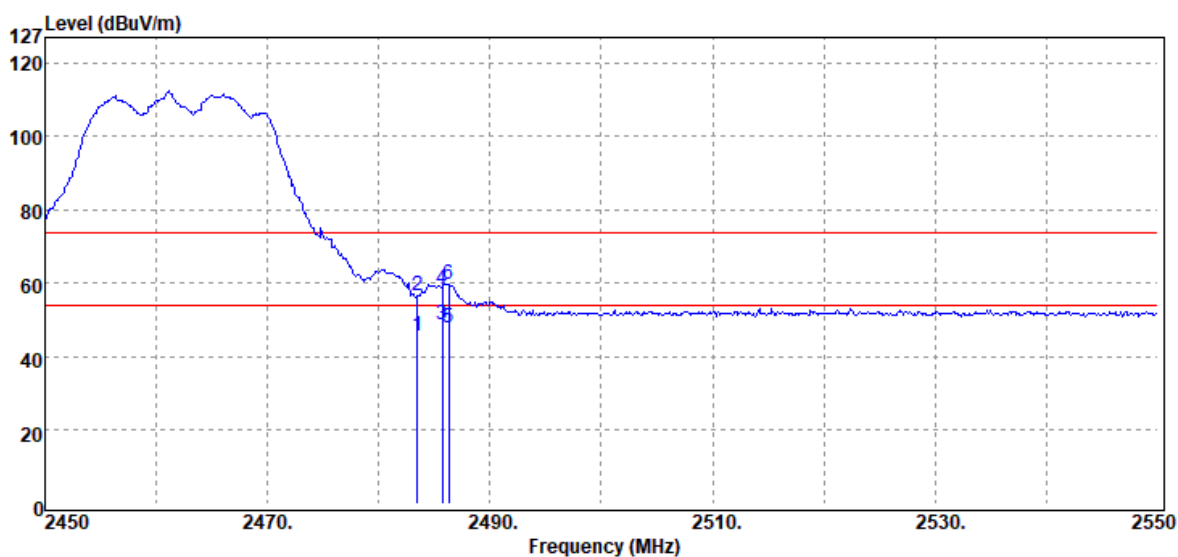
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Report Number :ER-2021-20091
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.50	Average	45.38	0.54	45.92	54.00	-8.08
2483.50	Peak	56.09	0.54	56.63	74.00	-17.37
2485.70	Average	48.12	0.54	48.66	54.00	-5.34
2485.70	Peak	58.07	0.54	58.61	74.00	-15.39
2486.30	Average	47.54	0.54	48.08	54.00	-5.92
2486.30	Peak	59.21	0.54	59.75	74.00	-14.25

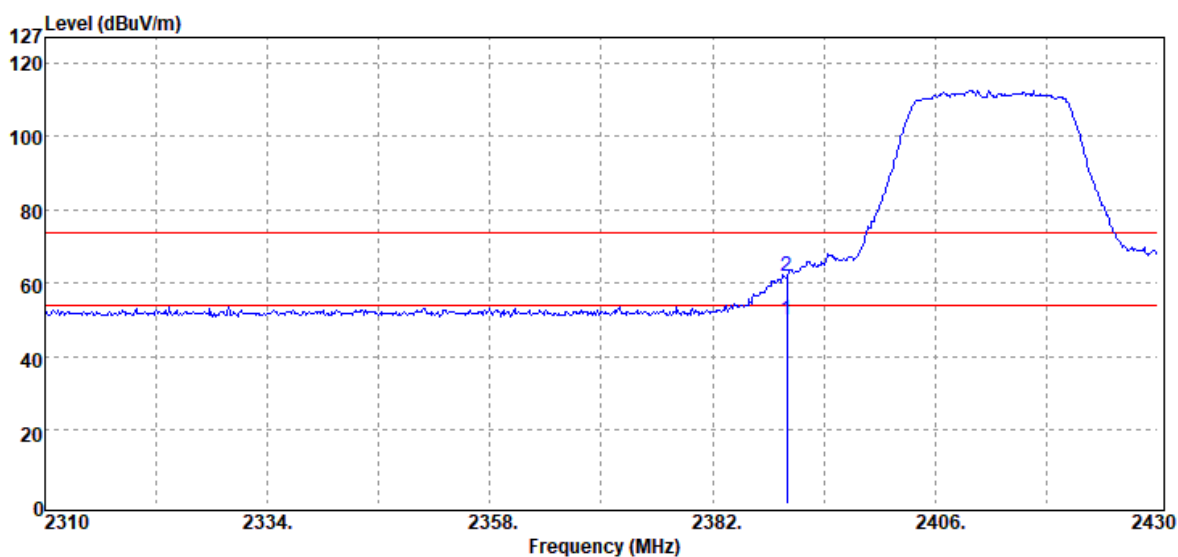
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Report Number :ER-2021-20091
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2390.00	Average	49.39	0.76	50.15	54.00	-3.85
2390.00	Peak	61.26	0.76	62.02	74.00	-11.98

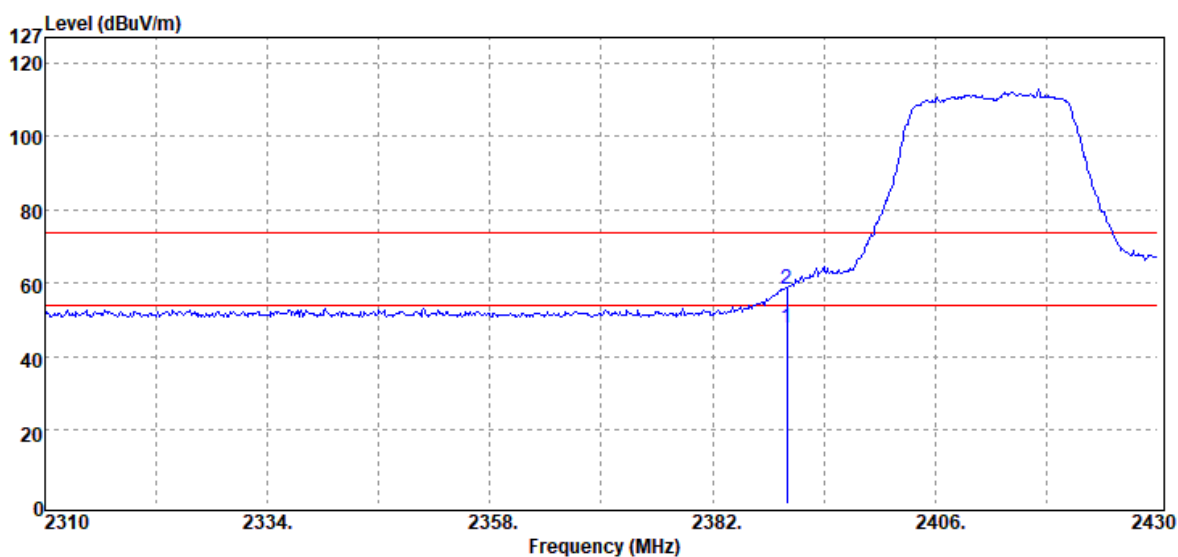
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Report Number :ER-2021-20091
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	Average	46.99	0.76	47.75	54.00	-6.25
2390.00	Peak	57.89	0.76	58.65	74.00	-15.35

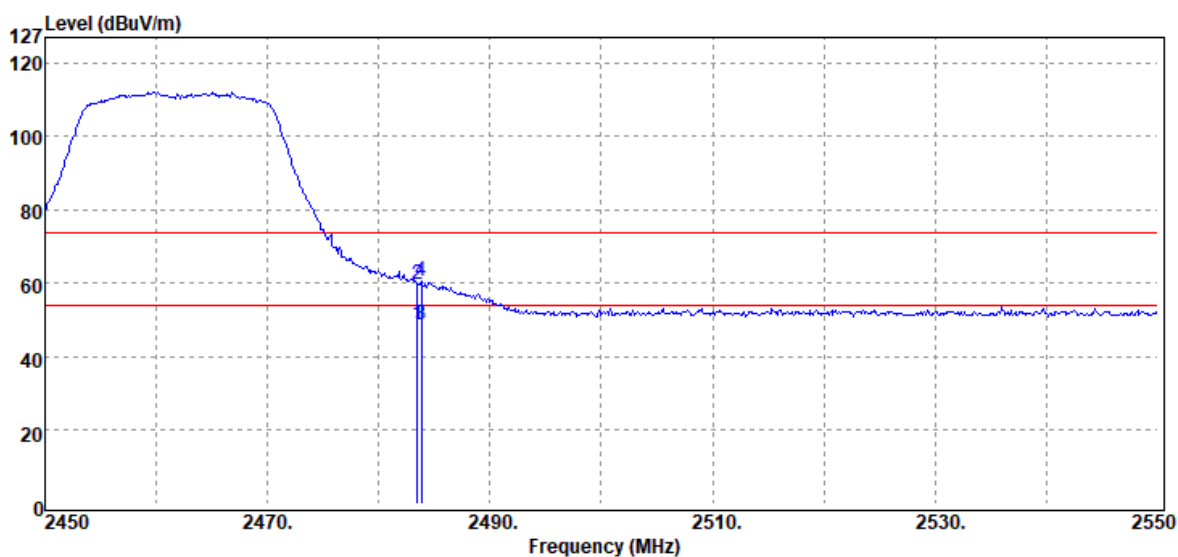
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Report Number :ER-2021-20091
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.50	Average	48.38	0.54	48.92	54.00	-5.08
2483.50	Peak	59.27	0.54	59.81	74.00	-14.19
2483.80	Average	48.06	0.54	48.60	54.00	-5.40
2483.80	Peak	60.00	0.54	60.54	74.00	-13.46

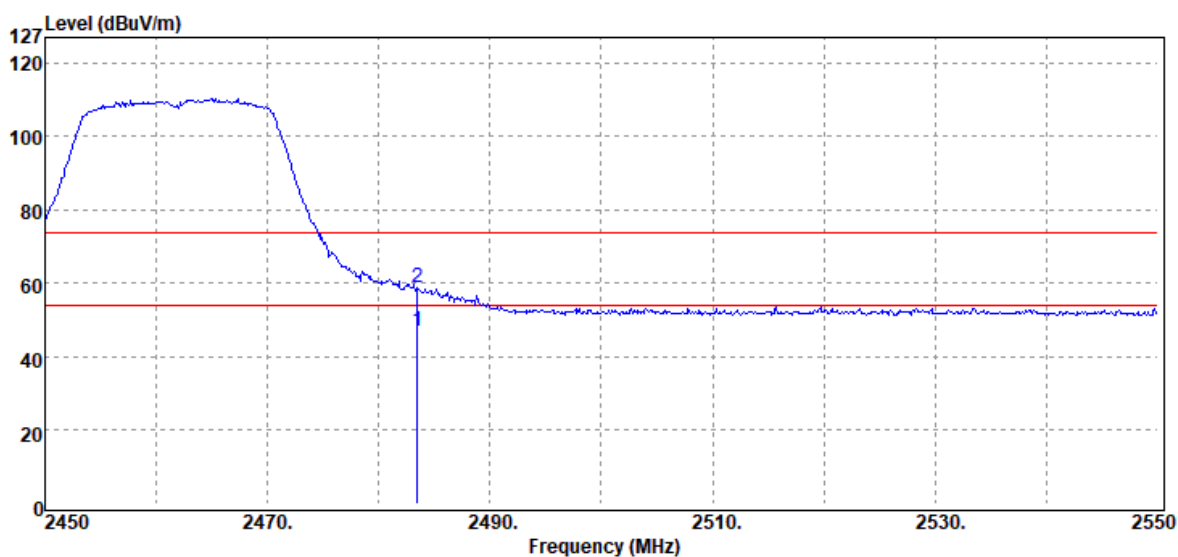
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 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	46.53	0.54	47.07	54.00	-6.93
2483.50	Peak	58.56	0.54	59.10	74.00	-14.90

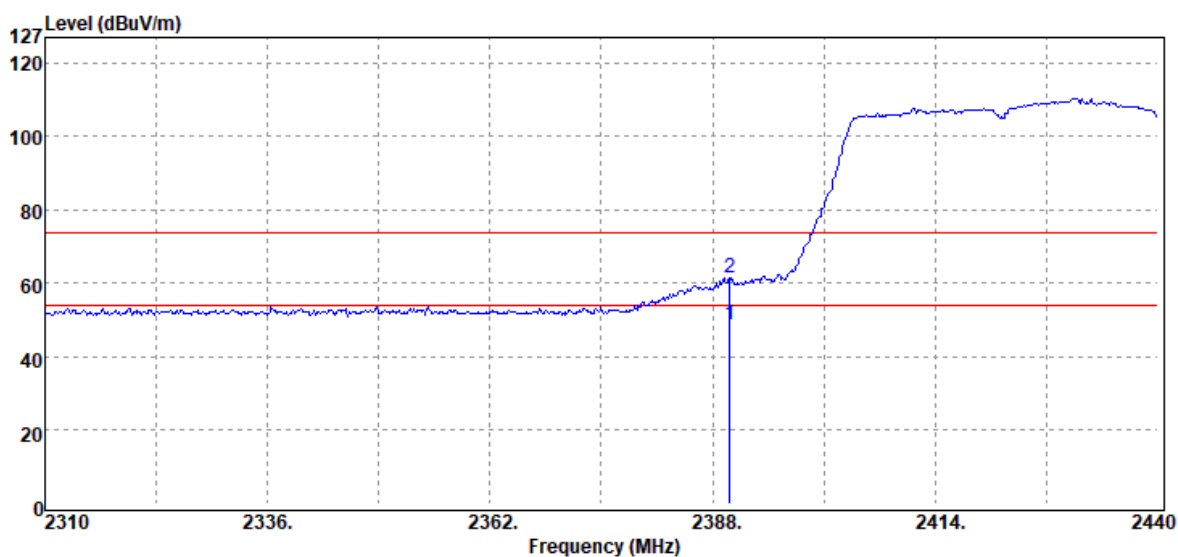
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2390.00	Average	48.18	0.76	48.94	54.00	-5.06
2390.00	Peak	60.63	0.76	61.39	74.00	-12.61

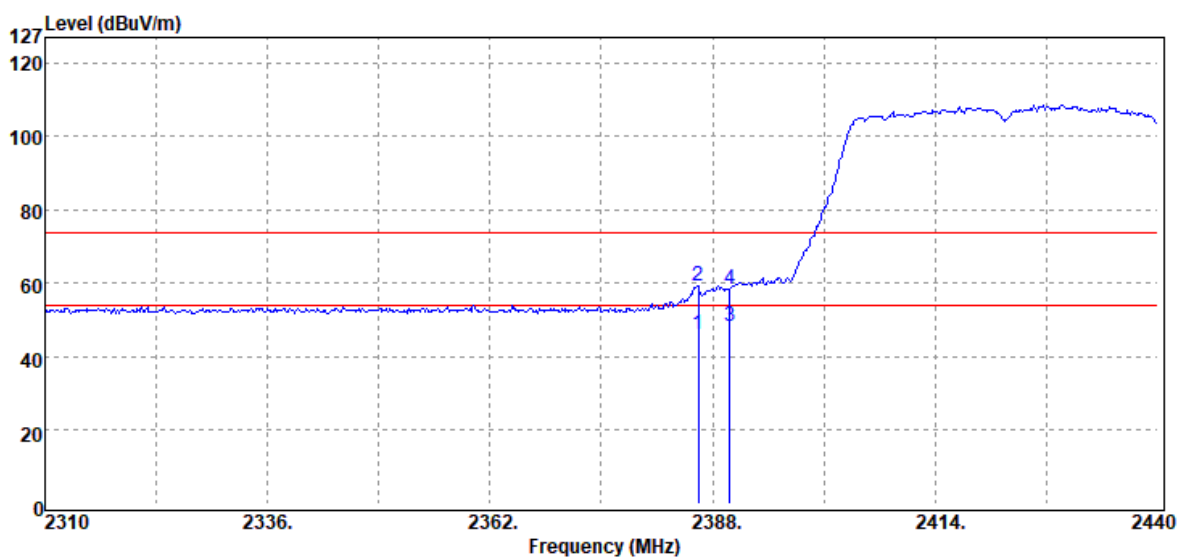
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2386.31	Average	45.40	0.76	46.16	54.00	-7.84
2386.31	Peak	58.51	0.76	59.27	74.00	-14.73
2390.00	Average	47.65	0.76	48.41	54.00	-5.59
2390.00	Peak	57.77	0.76	58.53	74.00	-15.47

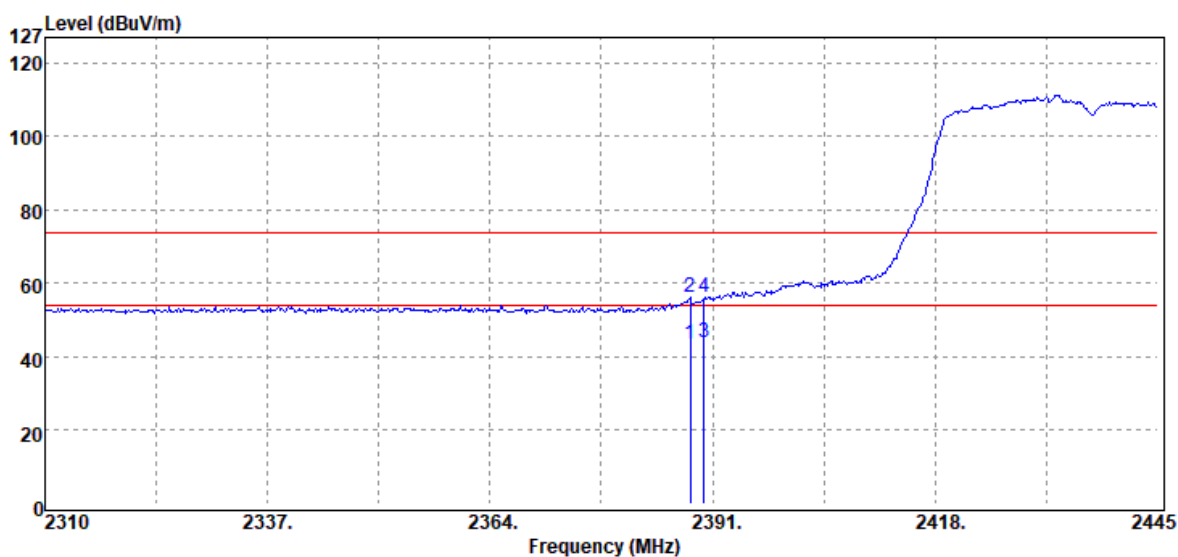
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Bandedge CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2388.30	Average	42.85	0.76	43.61	54.00	-10.39
2388.30	Peak	55.60	0.76	56.36	74.00	-17.64
2390.00	Average	43.39	0.76	44.15	54.00	-9.85
2390.00	Peak	55.41	0.76	56.17	74.00	-17.83

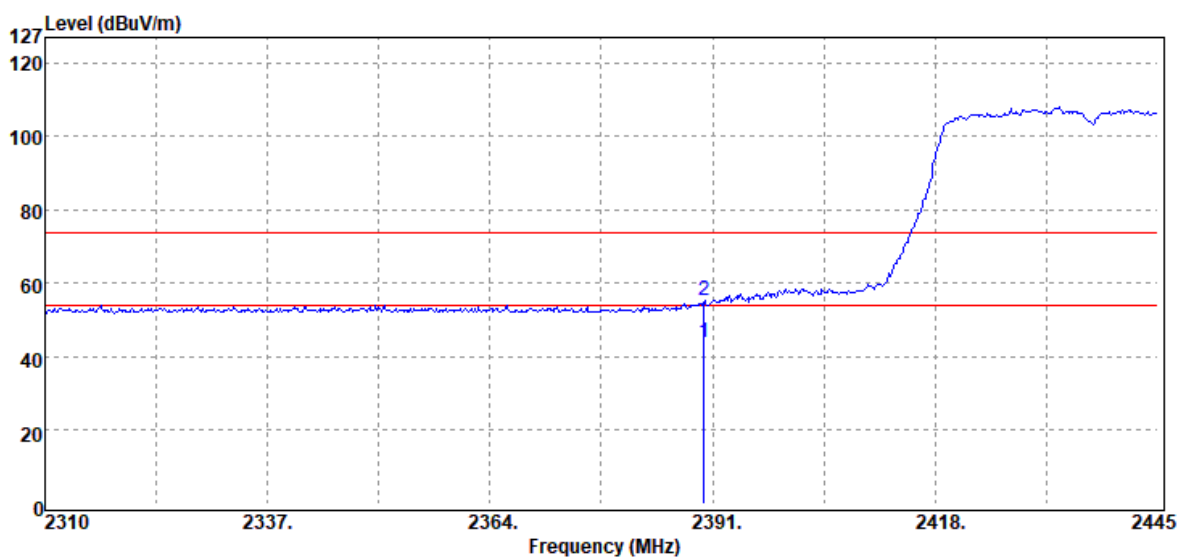
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Bandedge CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2390.00	Average	43.23	0.76	43.99	54.00	-10.01
2390.00	Peak	54.72	0.76	55.48	74.00	-18.52

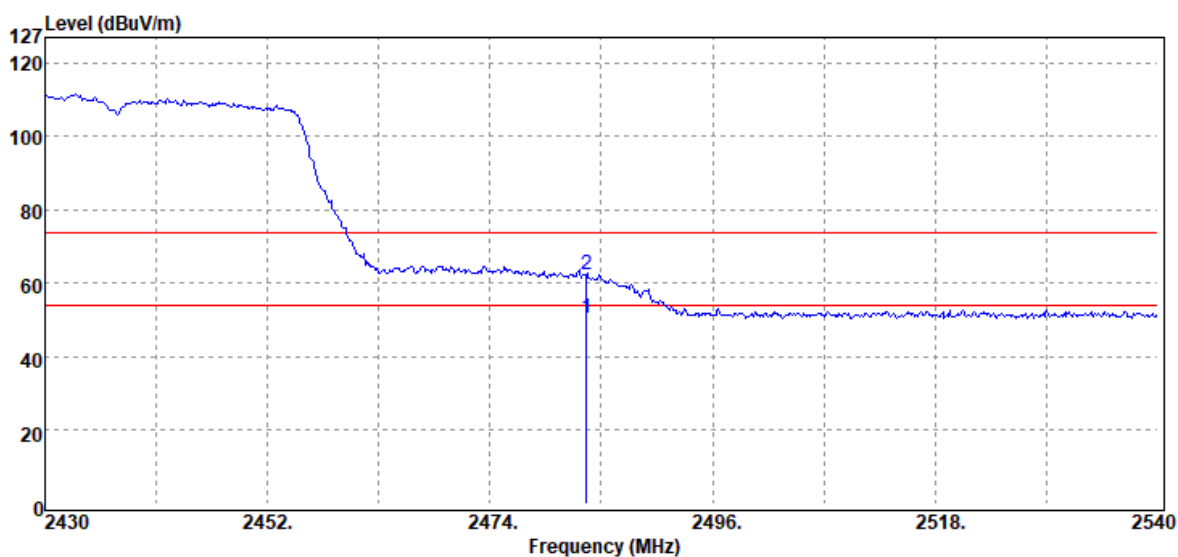
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Bandedge CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.50	Average	49.78	0.54	50.32	54.00	-3.68
2483.50	Peak	62.03	0.54	62.57	74.00	-11.43

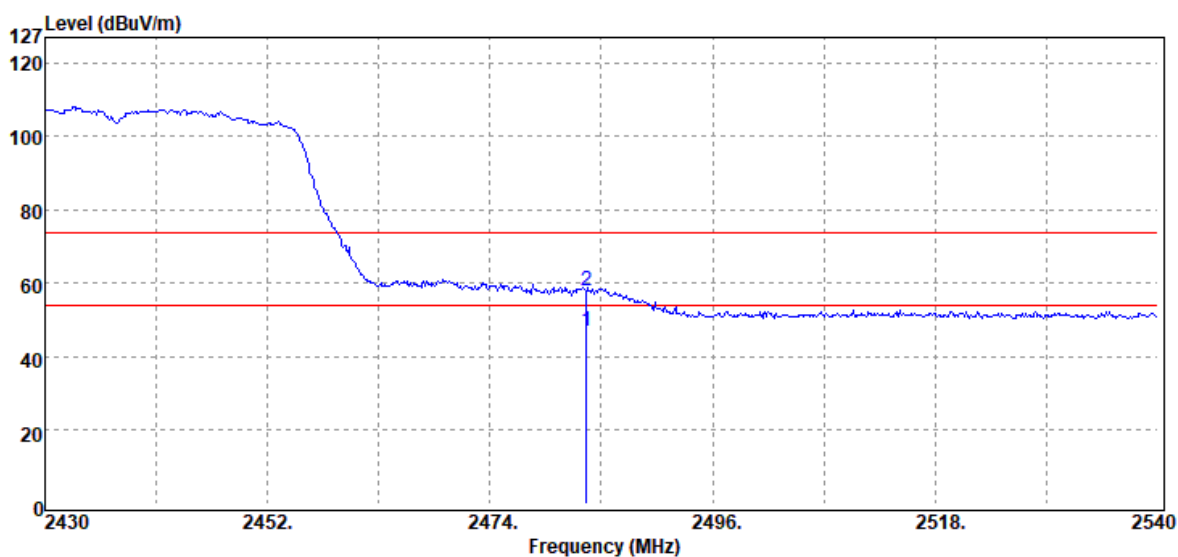
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Bandedge CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level			FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	46.27	0.54	46.81	54.00	-7.19
2483.50	Peak	57.63	0.54	58.17	74.00	-15.83

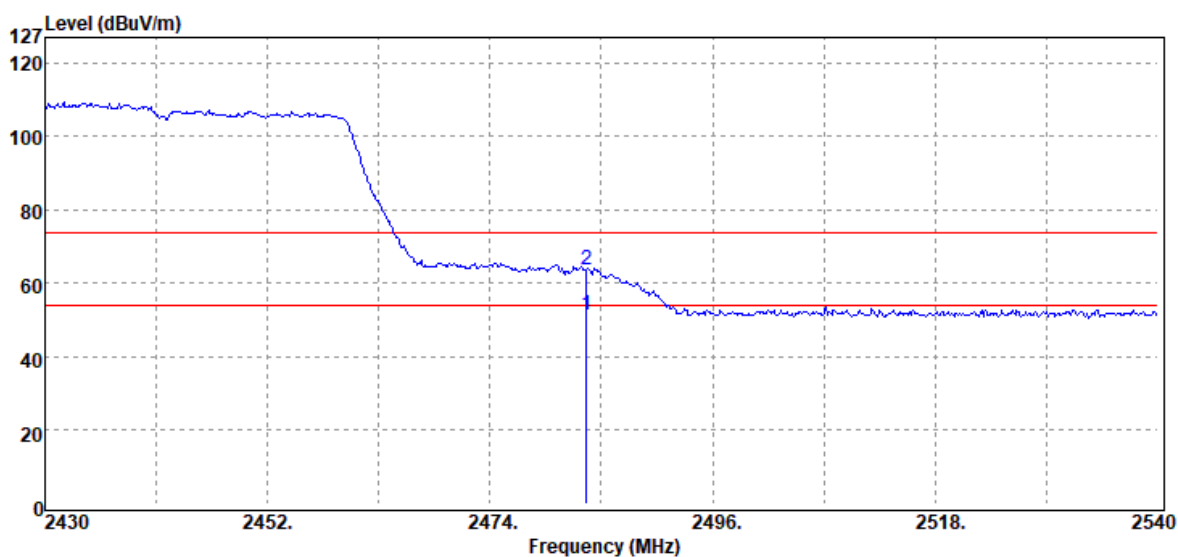
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2442 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.50	Average	50.93	0.54	51.47	54.00	-2.53
2483.50	Peak	63.34	0.54	63.88	74.00	-10.12

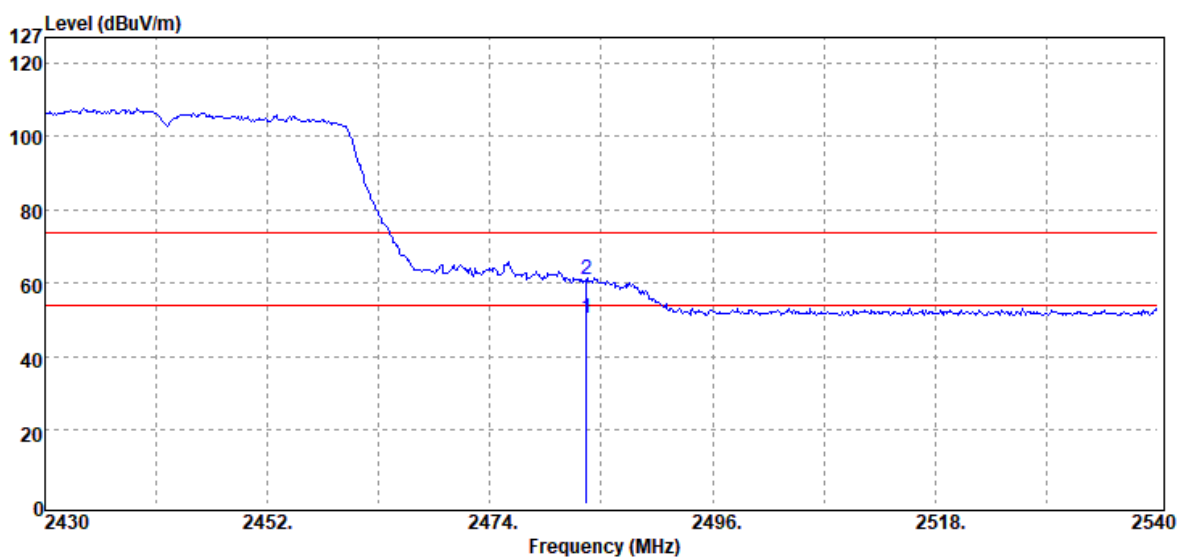
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2442 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level			FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	49.82	0.54	50.36	54.00	-3.64
2483.50	Peak	60.70	0.54	61.24	74.00	-12.76

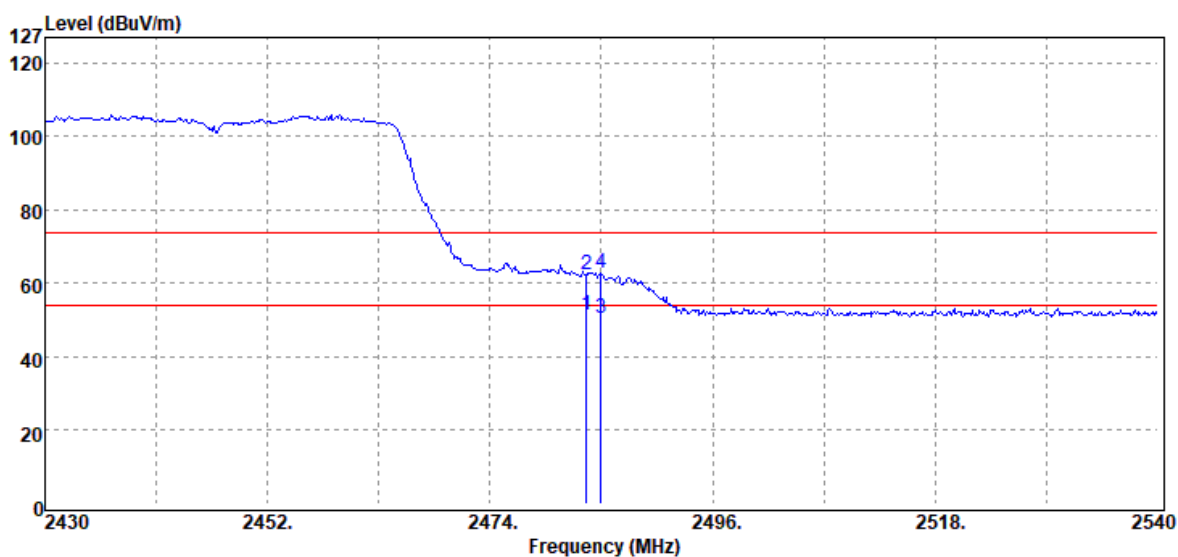
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2447 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.50	Average	50.85	0.54	51.39	54.00	-2.61
2483.50	Peak	61.74	0.54	62.28	74.00	-11.72
2485.00	Average	50.16	0.54	50.70	54.00	-3.30
2485.00	Peak	62.43	0.54	62.97	74.00	-11.03

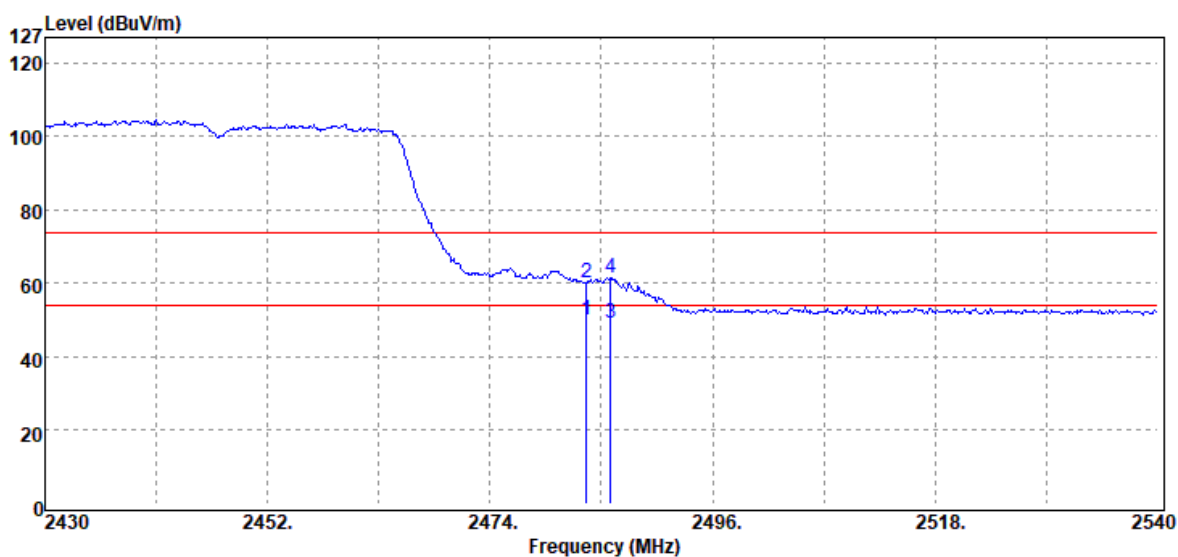
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2447 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	49.46	0.54	50.00	54.00	-4.00
2483.50	Peak	59.72	0.54	60.26	74.00	-13.74
2485.88	Average	48.67	0.54	49.21	54.00	-4.79
2485.88	Peak	61.11	0.54	61.65	74.00	-12.35

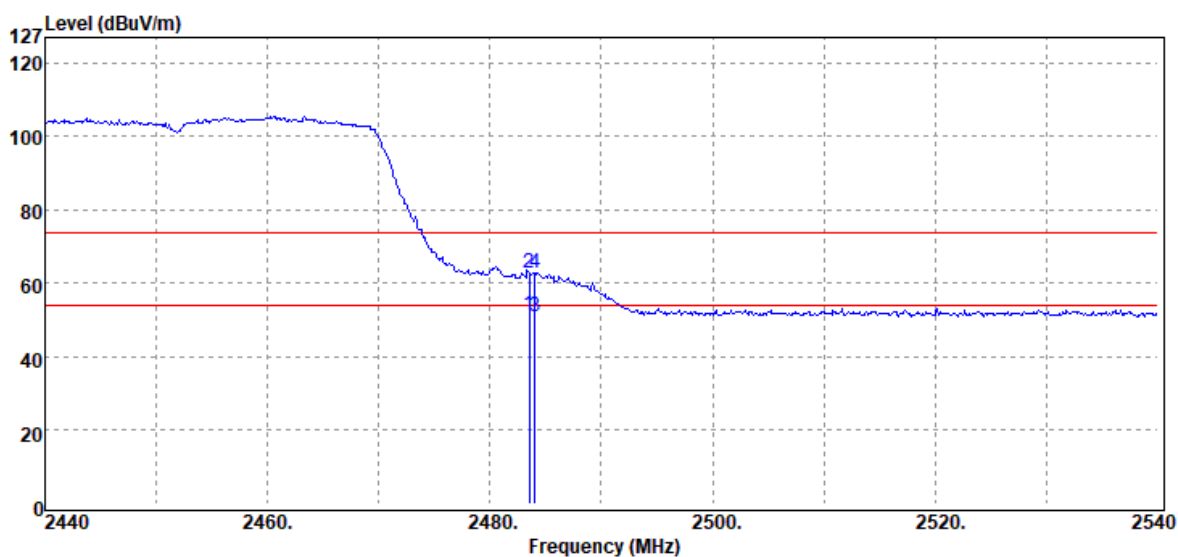
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.50	Average	50.71	0.54	51.25	54.00	-2.75
2483.50	Peak	62.23	0.54	62.77	74.00	-11.23
2484.00	Average	50.45	0.54	50.99	54.00	-3.01
2484.00	Peak	62.43	0.54	62.97	74.00	-11.03

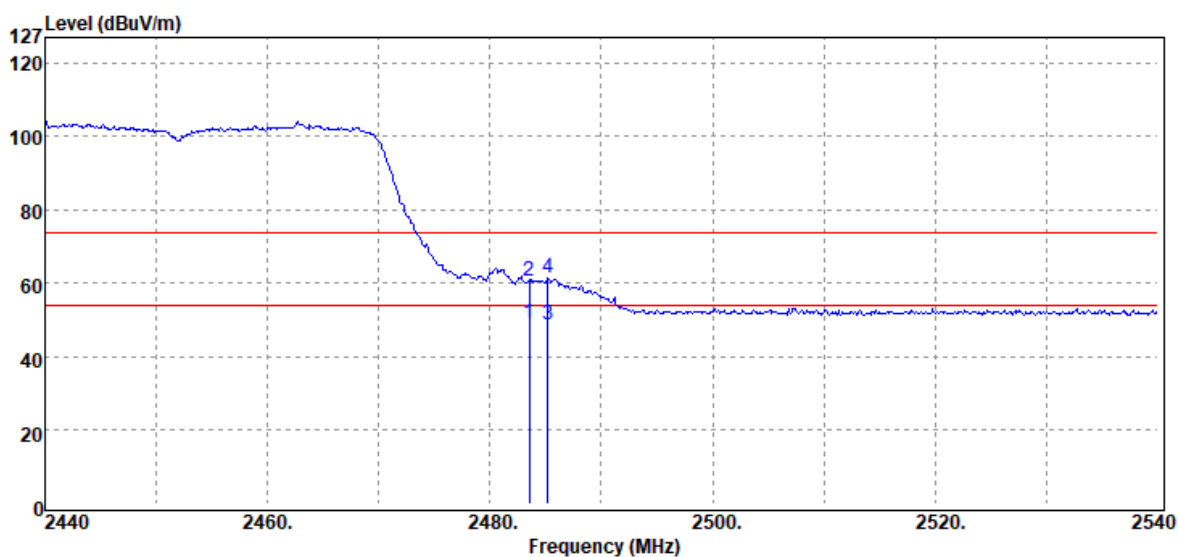
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.50	Average	48.67	0.54	49.21	54.00	-4.79
2483.50	Peak	60.24	0.54	60.78	74.00	-13.22
2485.20	Average	48.03	0.54	48.57	54.00	-5.43
2485.20	Peak	60.89	0.54	61.43	74.00	-12.57

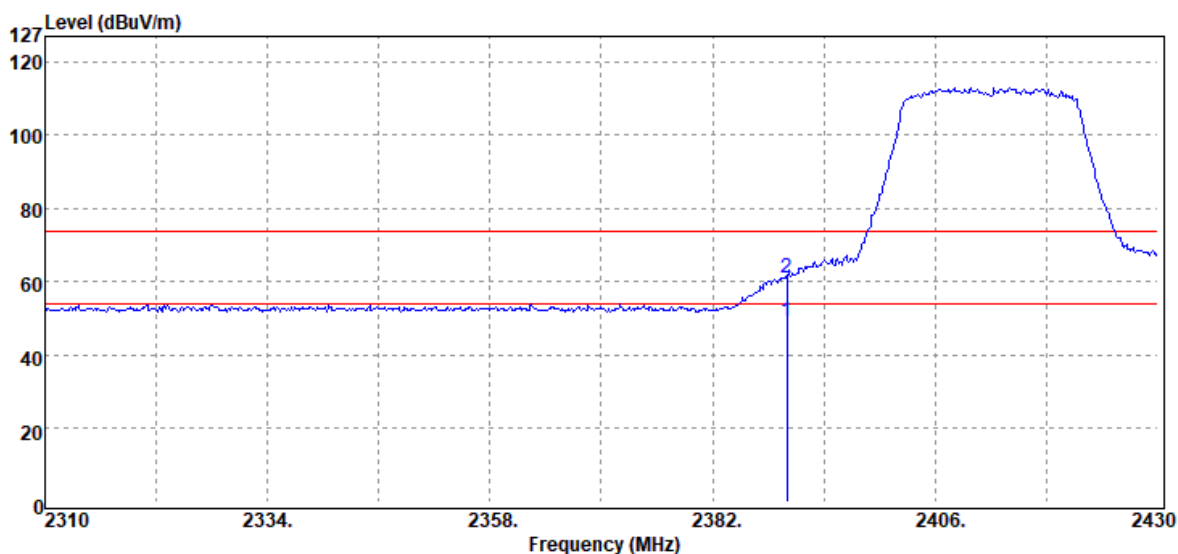
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU full
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	48.63	0.76	49.39	54.00	-4.61
2390.00	Peak	60.22	0.76	60.98	74.00	-13.02

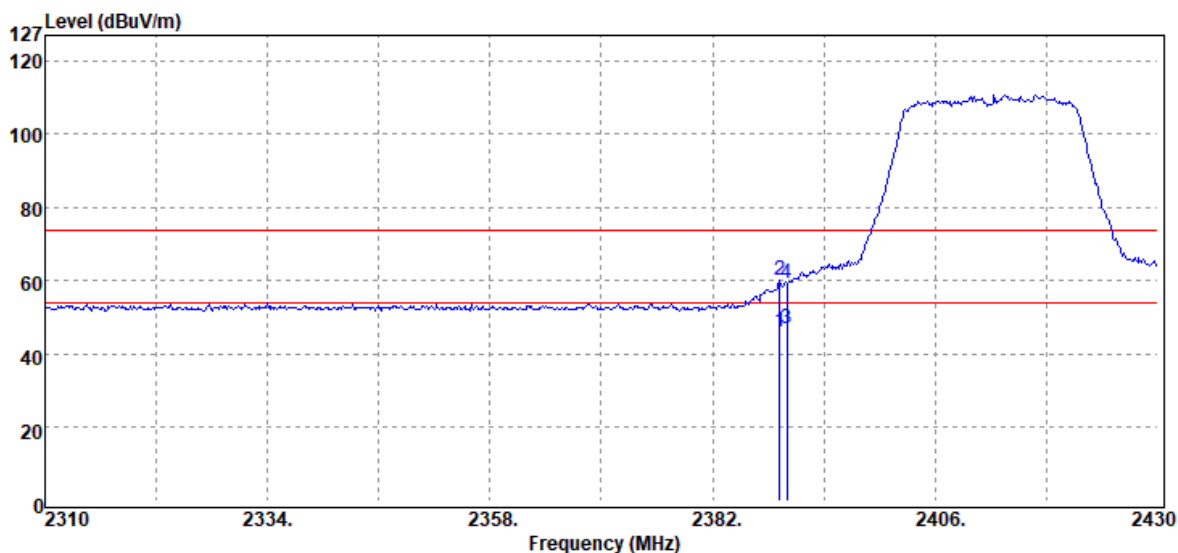
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU full
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2389.20	Average	45.39	0.76	46.15	54.00	-7.85
2389.20	Peak	59.41	0.76	60.17	74.00	-13.83
2390.00	Average	46.25	0.76	47.01	54.00	-6.99
2390.00	Peak	58.78	0.76	59.54	74.00	-14.46

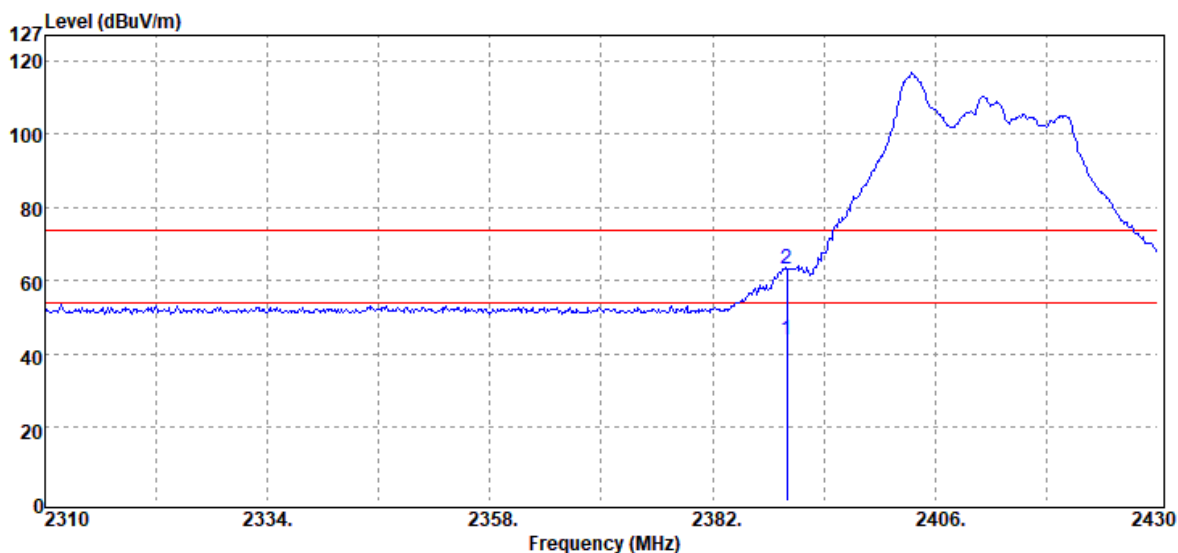
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 26/0
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	43.08	0.76	43.84	54.00	-10.16
2390.00	Peak	62.57	0.76	63.33	74.00	-10.67

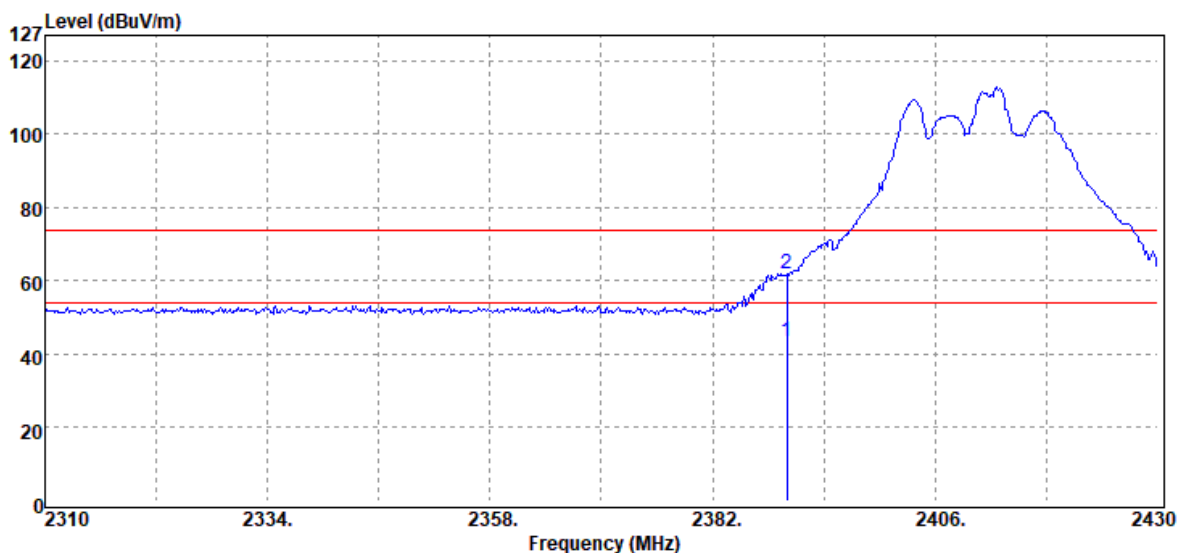
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 26/0
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	42.89	0.76	43.65	54.00	-10.35
2390.00	Peak	61.17	0.76	61.93	74.00	-12.07

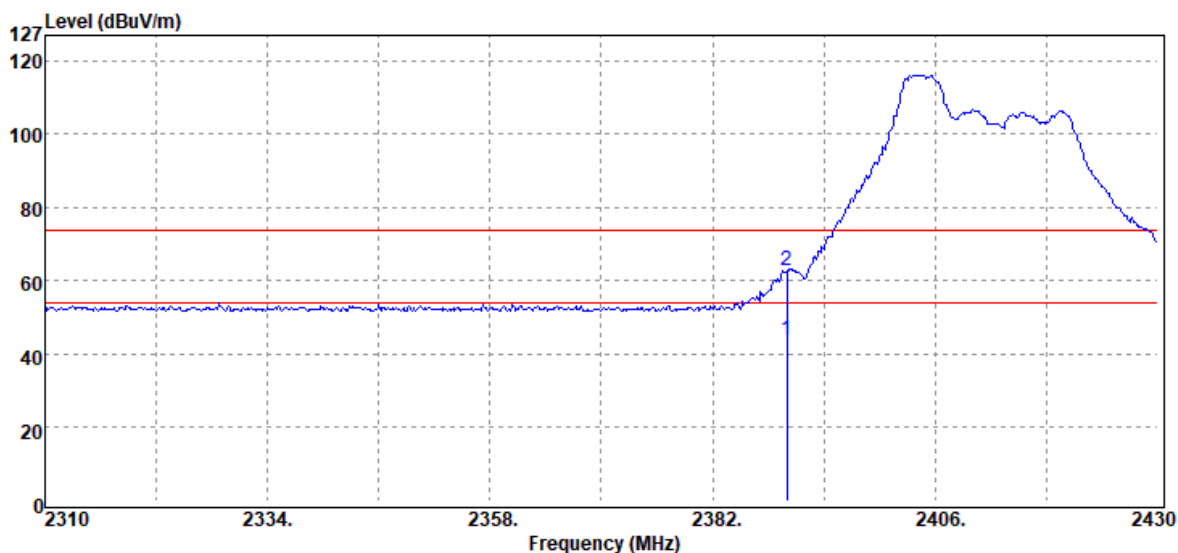
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 52/37
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	43.37	0.76	44.13	54.00	-9.87
2390.00	Peak	61.97	0.76	62.73	74.00	-11.27

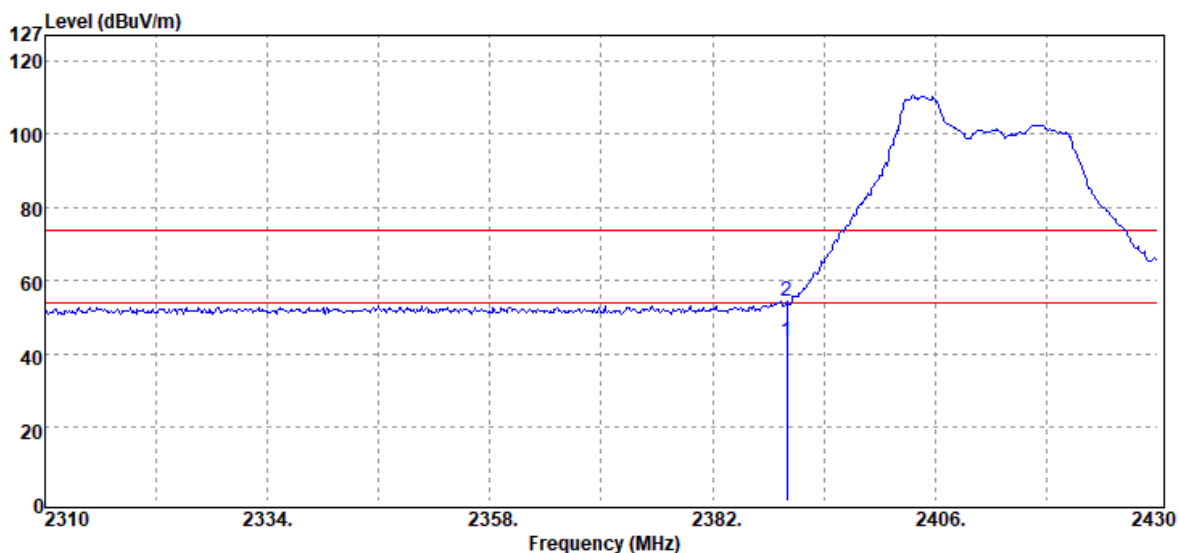
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 52/37
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2390.00	Average	42.67	0.76	43.43	54.00	-10.57
2390.00	Peak	53.71	0.76	54.47	74.00	-19.53

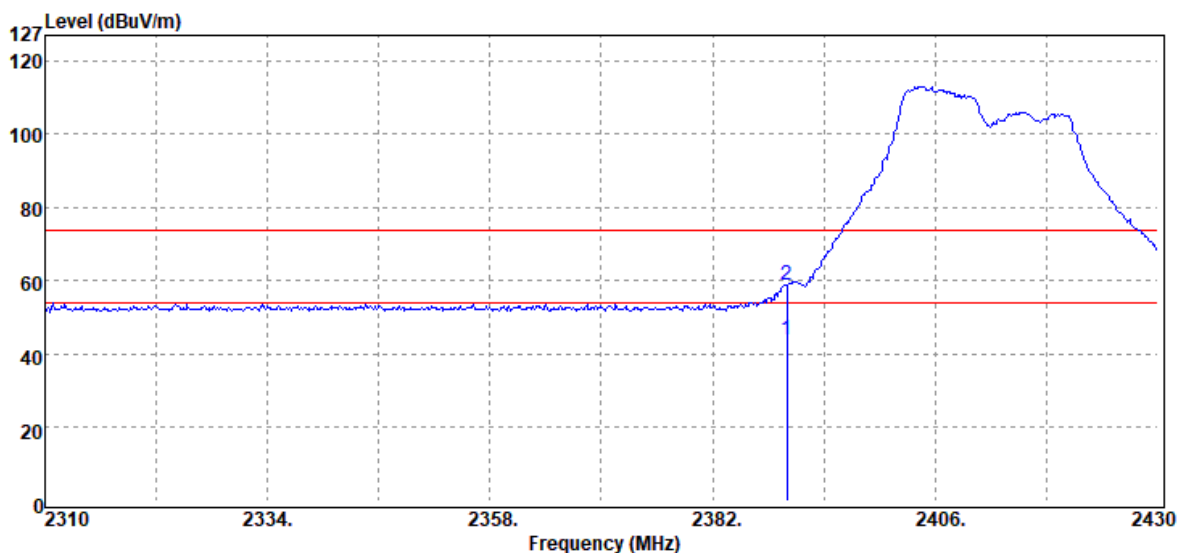
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 106/53
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	43.02	0.76	43.78	54.00	-10.22
2390.00	Peak	58.17	0.76	58.93	74.00	-15.07

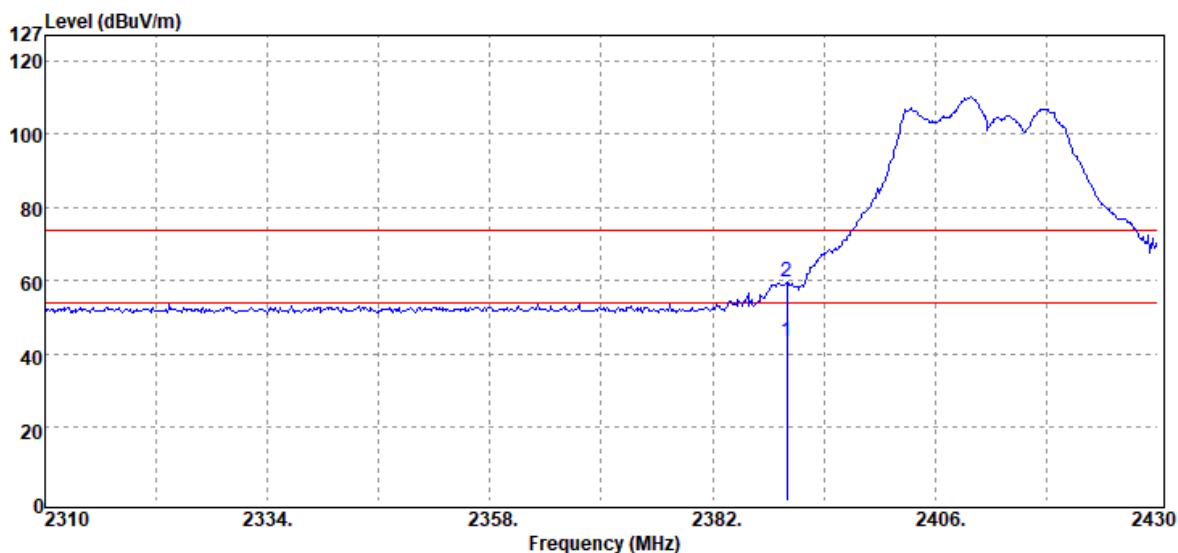
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 106/53
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	42.72	0.76	43.48	54.00	-10.52
2390.00	Peak	59.03	0.76	59.79	74.00	-14.21

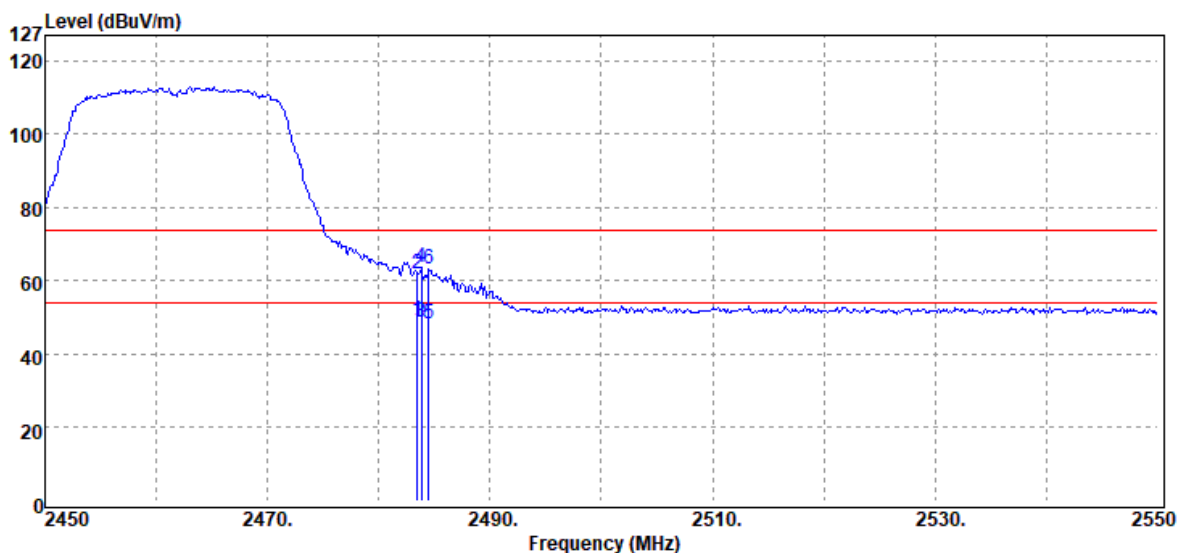
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU full
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	48.59	0.54	49.13	54.00	-4.87
2483.50	Peak	61.52	0.54	62.06	74.00	-11.94
2483.80	Average	48.33	0.54	48.87	54.00	-5.13
2483.80	Peak	62.98	0.54	63.52	74.00	-10.48
2484.50	Average	47.75	0.54	48.29	54.00	-5.71
2484.50	Peak	62.68	0.54	63.22	74.00	-10.78

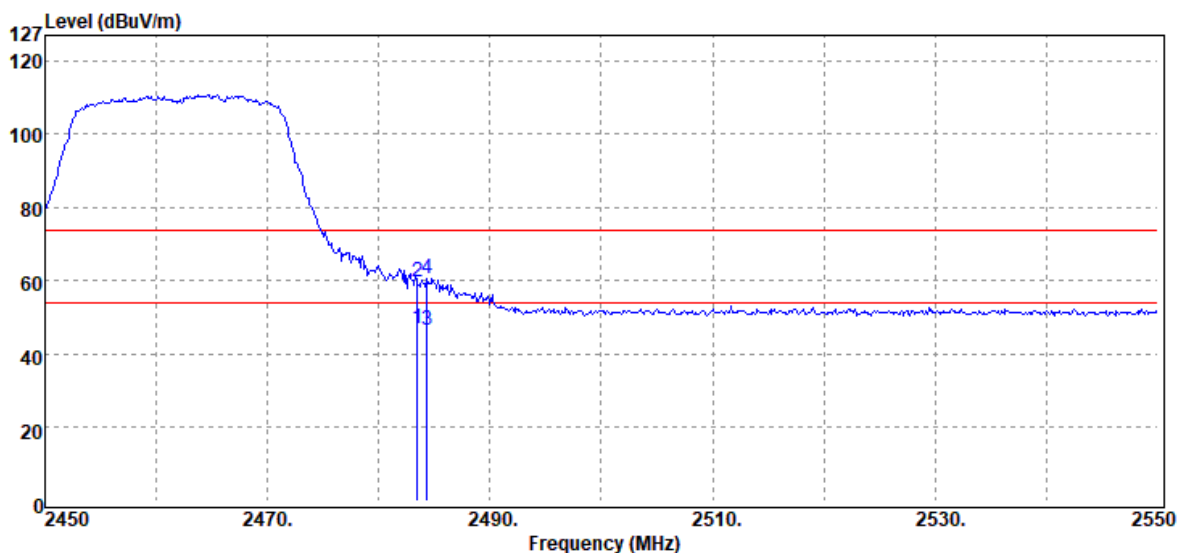
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU full
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	46.42	0.54	46.96	54.00	-7.04
2483.50	Peak	59.34	0.54	59.88	74.00	-14.12
2484.30	Average	45.93	0.54	46.47	54.00	-7.53
2484.30	Peak	60.07	0.54	60.61	74.00	-13.39

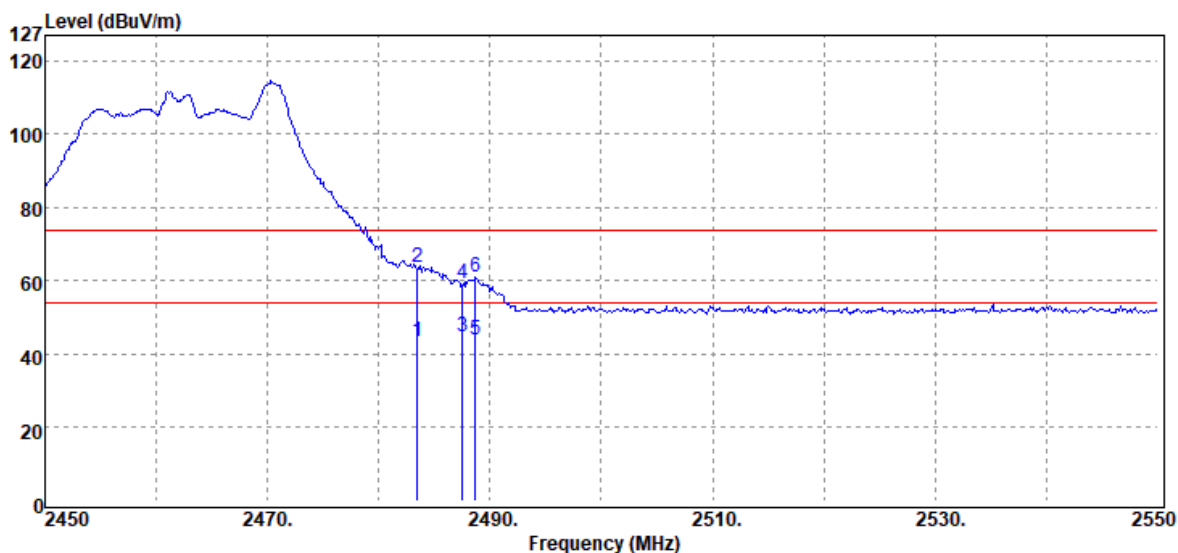
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 26/8
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	42.99	0.54	43.53	54.00	-10.47
2483.50	Peak	63.21	0.54	63.75	74.00	-10.25
2487.50	Average	44.33	0.53	44.86	54.00	-9.14
2487.50	Peak	58.62	0.53	59.15	74.00	-14.85
2488.70	Average	43.45	0.53	43.98	54.00	-10.02
2488.70	Peak	60.71	0.53	61.24	74.00	-12.76

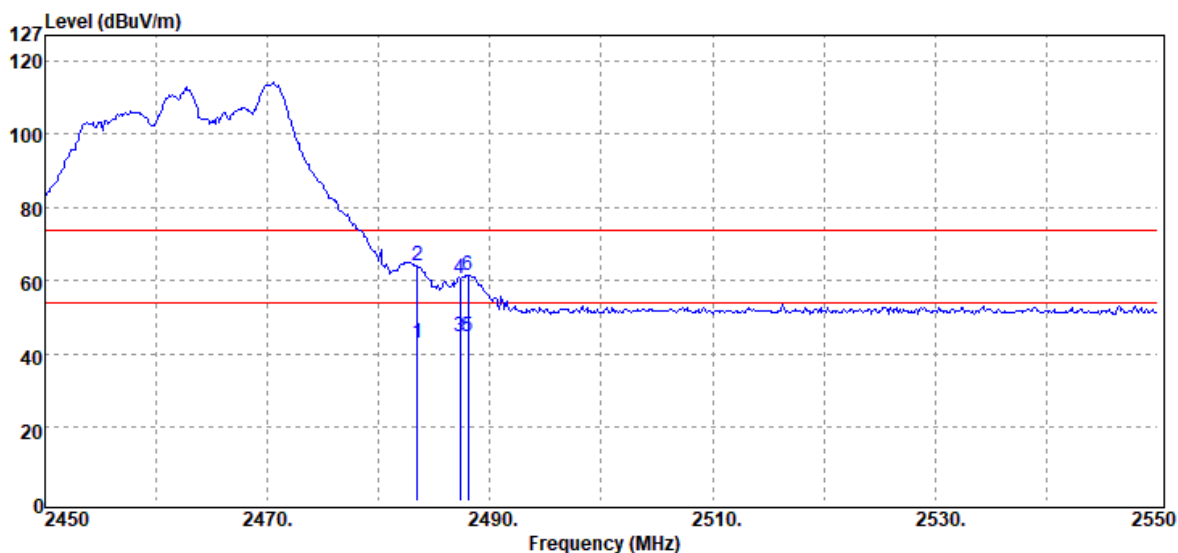
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 26/8
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	42.63	0.54	43.17	54.00	-10.83
2483.50	Peak	63.63	0.54	64.17	74.00	-9.83
2487.30	Average	44.50	0.54	45.04	54.00	-8.96
2487.30	Peak	59.90	0.54	60.44	74.00	-13.56
2488.00	Average	44.09	0.53	44.62	54.00	-9.38
2488.00	Peak	61.13	0.53	61.66	74.00	-12.34

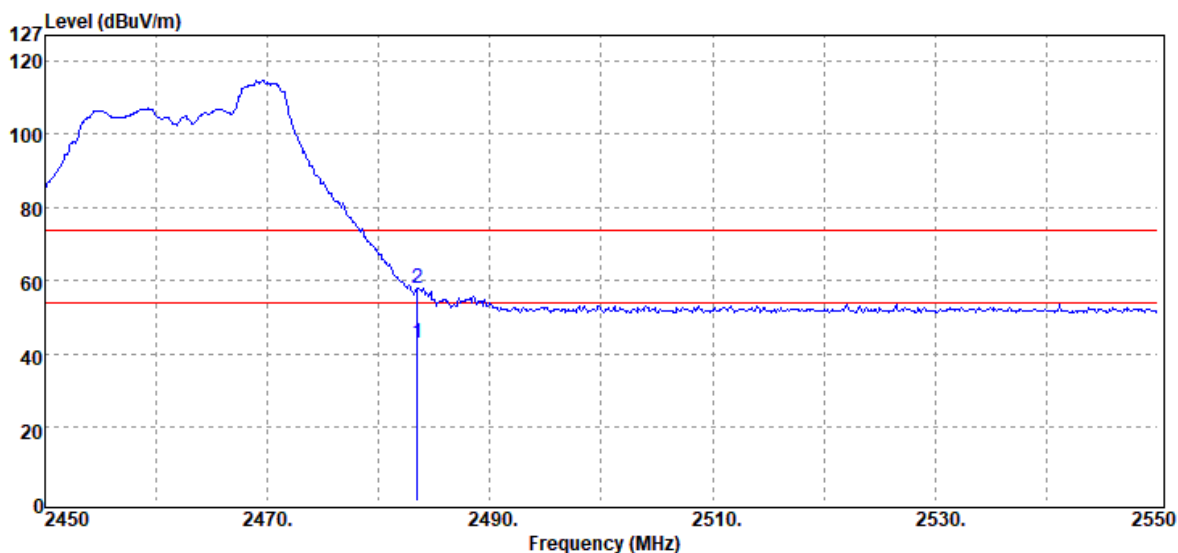
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 52/40
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	42.31	0.54	42.85	54.00	-11.15
2483.50	Peak	57.28	0.54	57.82	74.00	-16.18

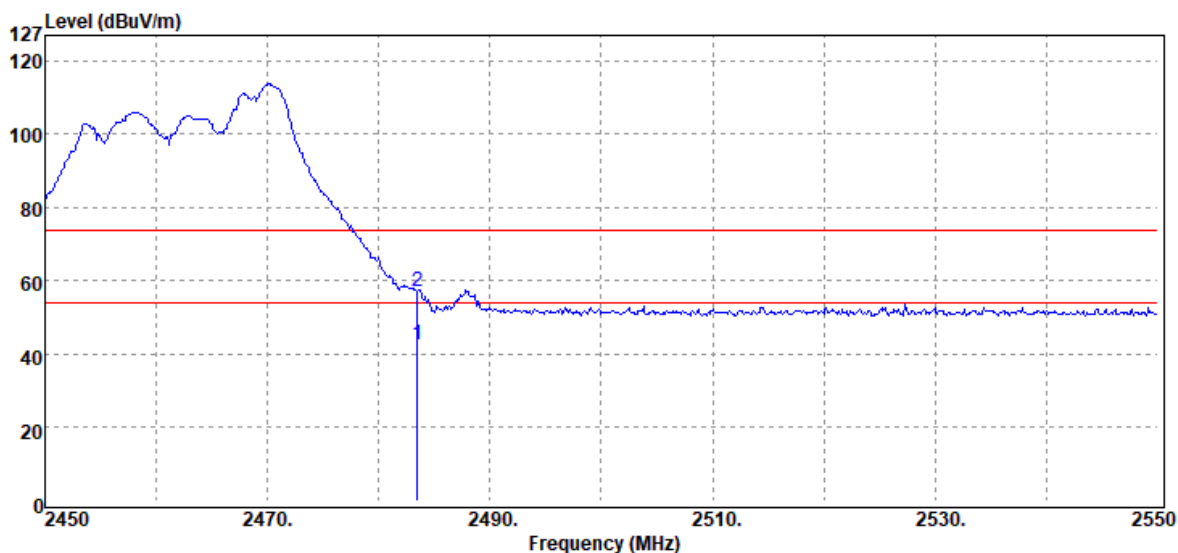
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 52/40
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	42.22	0.54	42.76	54.00	-11.24
2483.50	Peak	56.48	0.54	57.02	74.00	-16.98

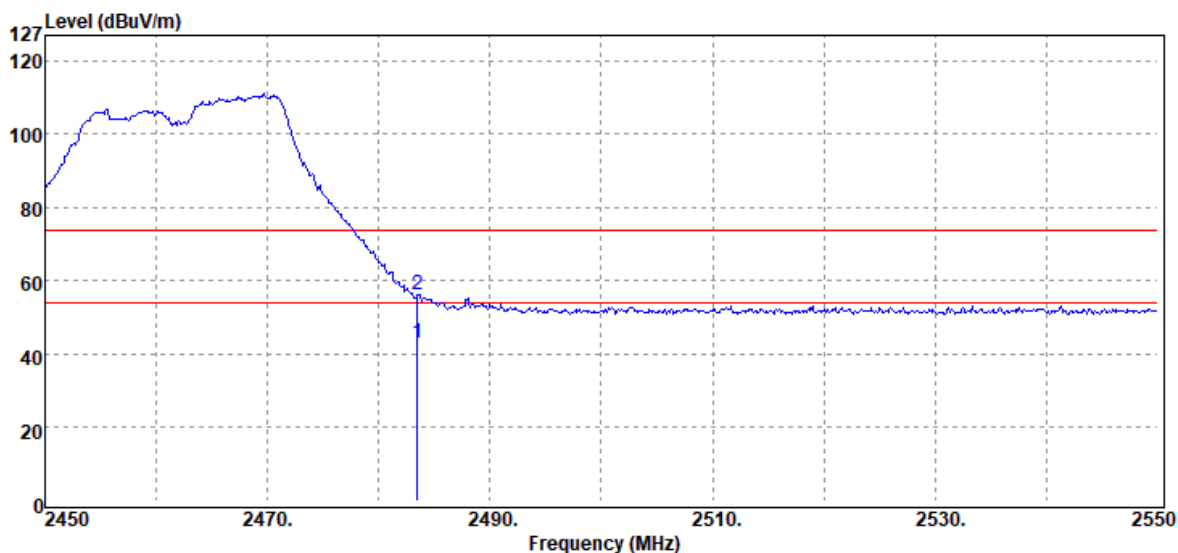
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 106/54
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2483.50	Average	42.48	0.54	43.02	54.00	-10.98
2483.50	Peak	55.57	0.54	56.11	74.00	-17.89

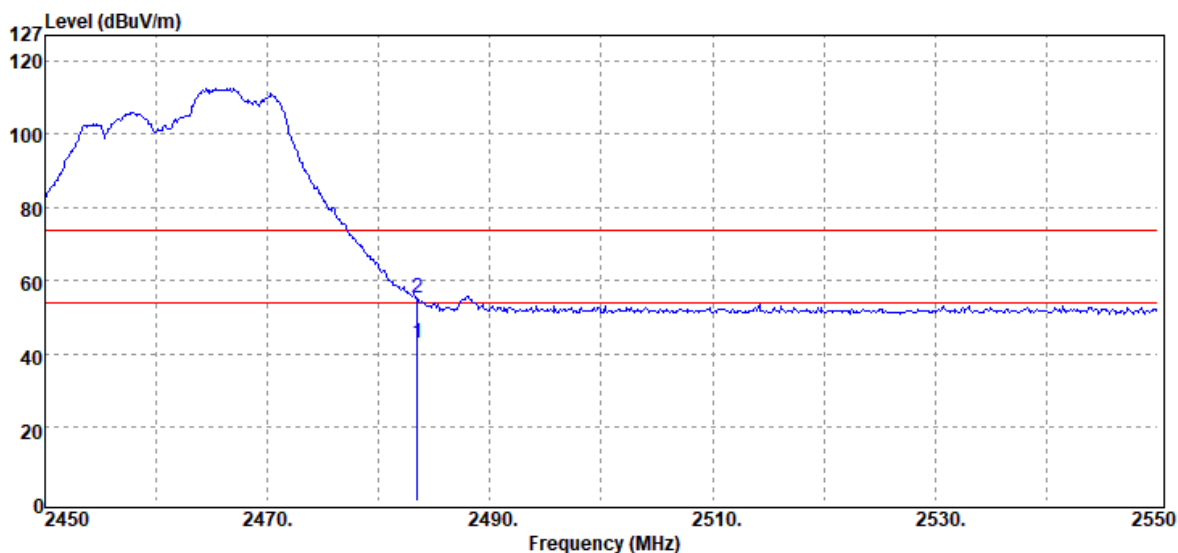
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 106/54
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2483.50	Average	42.33	0.54	42.87	54.00	-11.13
2483.50	Peak	54.75	0.54	55.29	74.00	-18.71

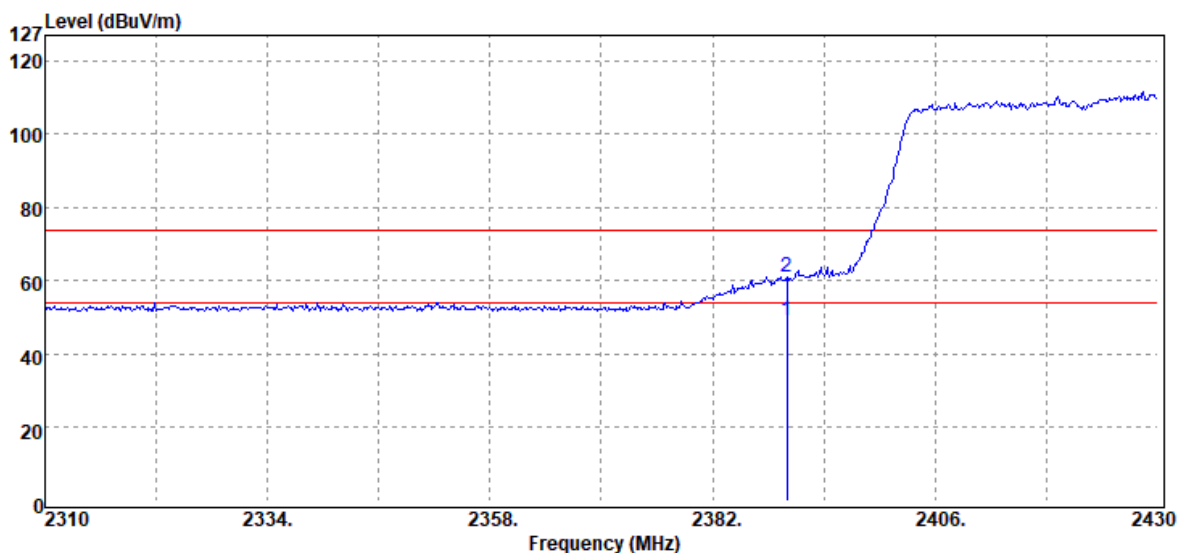
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	48.59	0.76	49.35	54.00	-4.65
2390.00	Peak	60.15	0.76	60.91	74.00	-13.09

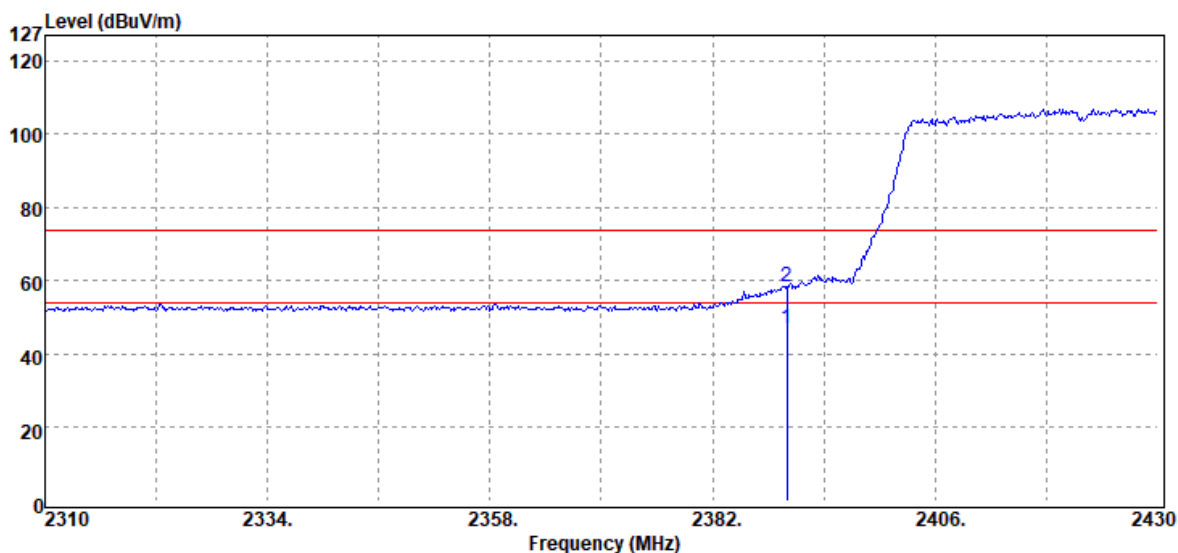
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	46.35	0.76	47.11	54.00	-6.89
2390.00	Peak	57.57	0.76	58.33	74.00	-15.67

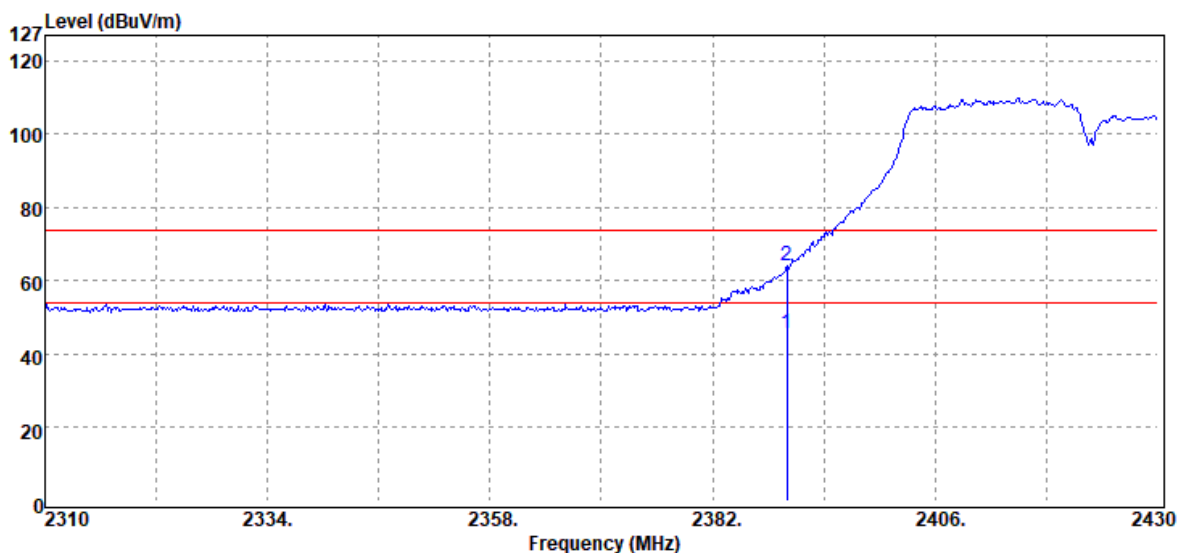
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU 242/61
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	45.11	0.76	45.87	54.00	-8.13
2390.00	Peak	63.60	0.76	64.36	74.00	-9.64

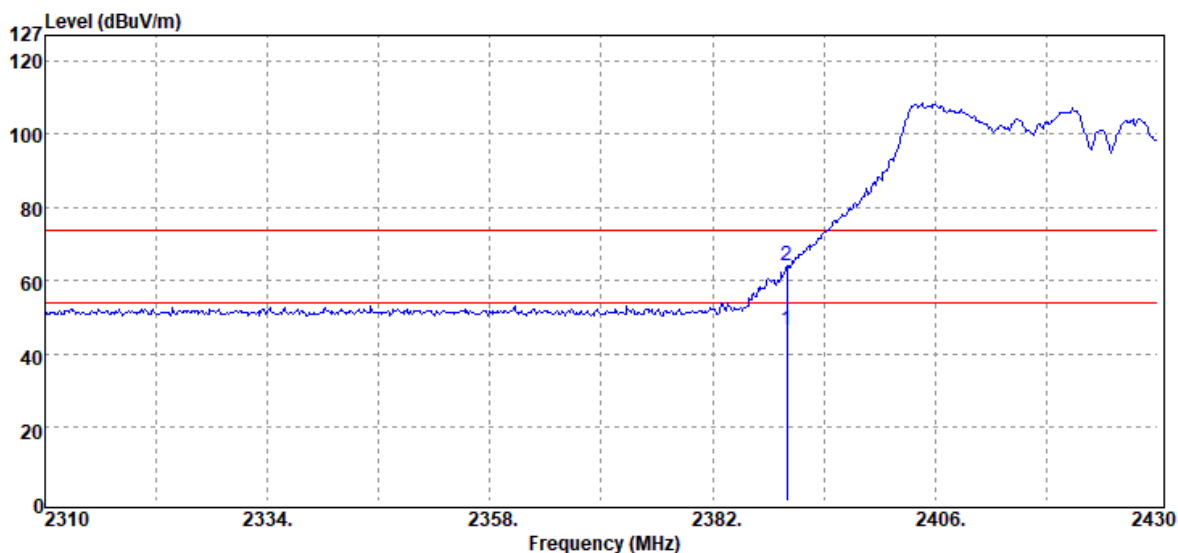
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU 242/61
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	45.69	0.76	46.45	54.00	-7.55
2390.00	Peak	63.29	0.76	64.05	74.00	-9.95

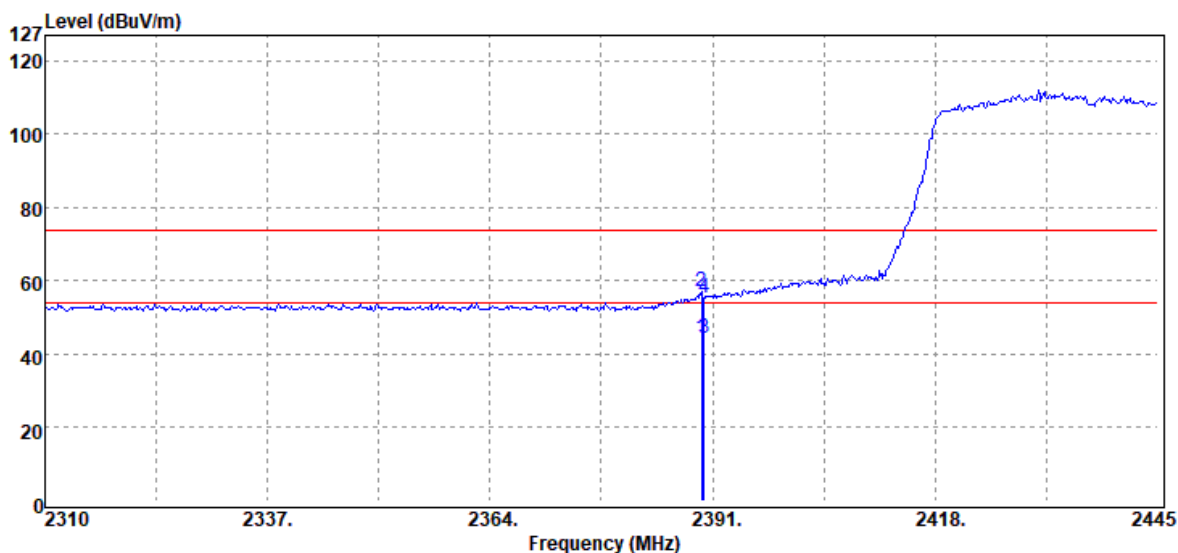
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2437 MHz
 Test Mode :Bandedge CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2389.65	Average	43.45	0.76	44.21	54.00	-9.79
2389.65	Peak	56.41	0.76	57.17	74.00	-16.83
2390.00	Average	43.55	0.76	44.31	54.00	-9.69
2390.00	Peak	54.83	0.76	55.59	74.00	-18.41

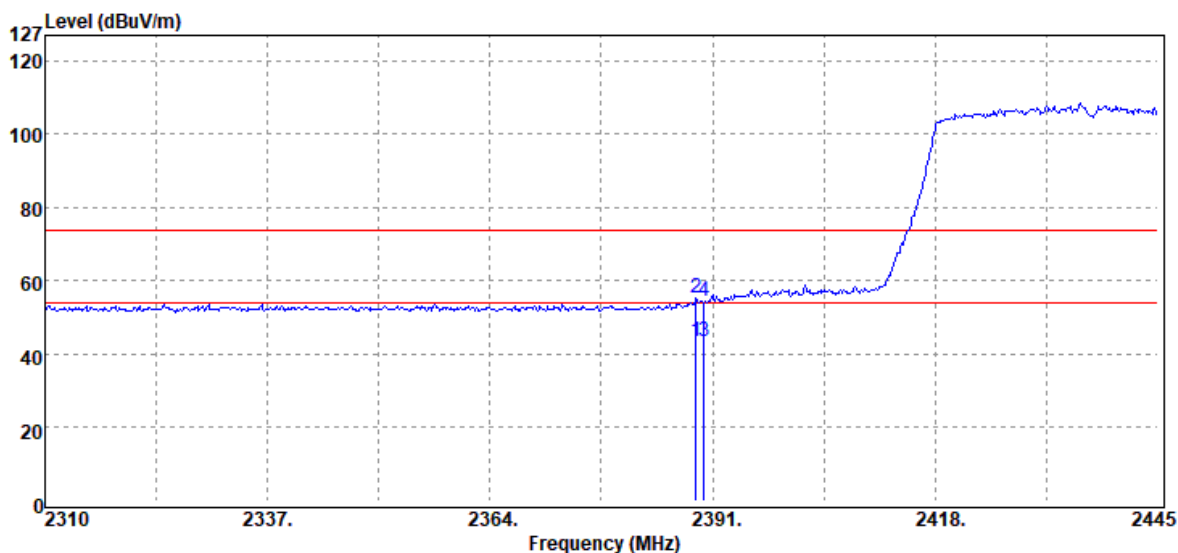
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2437 MHz
 Test Mode :Bandedge CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2388.98	Average	42.59	0.76	43.35	54.00	-10.65
2388.98	Peak	54.73	0.76	55.49	74.00	-18.51
2390.00	Average	42.89	0.76	43.65	54.00	-10.35
2390.00	Peak	53.71	0.76	54.47	74.00	-19.53

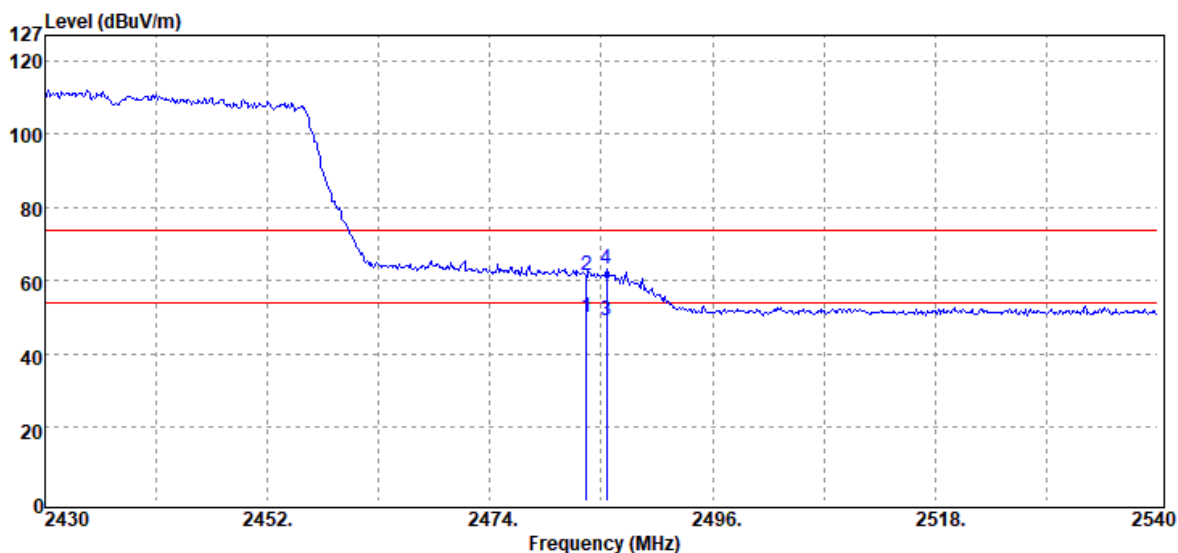
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2437 MHz
 Test Mode :Bandedge CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	49.56	0.54	50.10	54.00	-3.90
2483.50	Peak	60.98	0.54	61.52	74.00	-12.48
2485.55	Average	48.70	0.54	49.24	54.00	-4.76
2485.55	Peak	62.54	0.54	63.08	74.00	-10.92

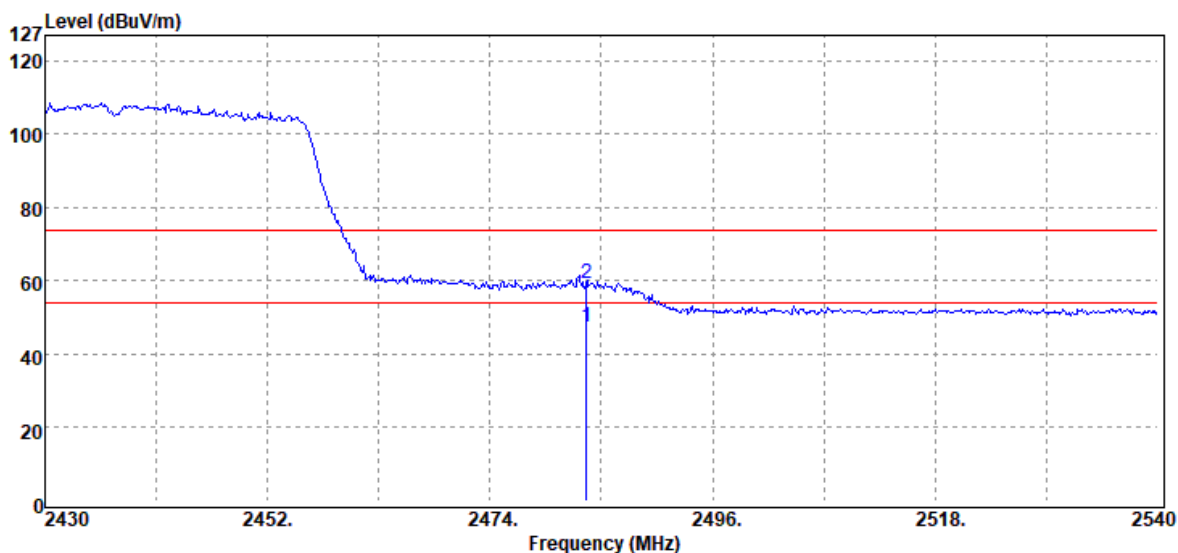
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2437 MHz
 Test Mode :Bandedge CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	46.79	0.54	47.33	54.00	-6.67
2483.50	Peak	58.59	0.54	59.13	74.00	-14.87

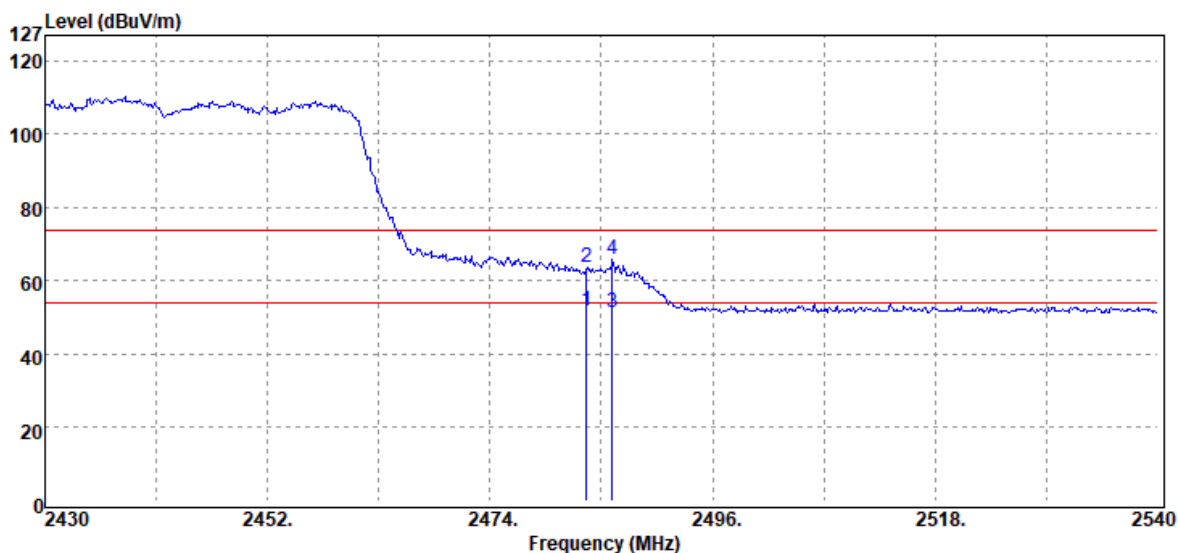
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2442 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	51.38	0.54	51.92	54.00	-2.08
2483.50	Peak	63.23	0.54	63.77	74.00	-10.23
2486.10	Average	50.87	0.54	51.41	54.00	-2.59
2486.10	Peak	65.43	0.54	65.97	74.00	-8.03

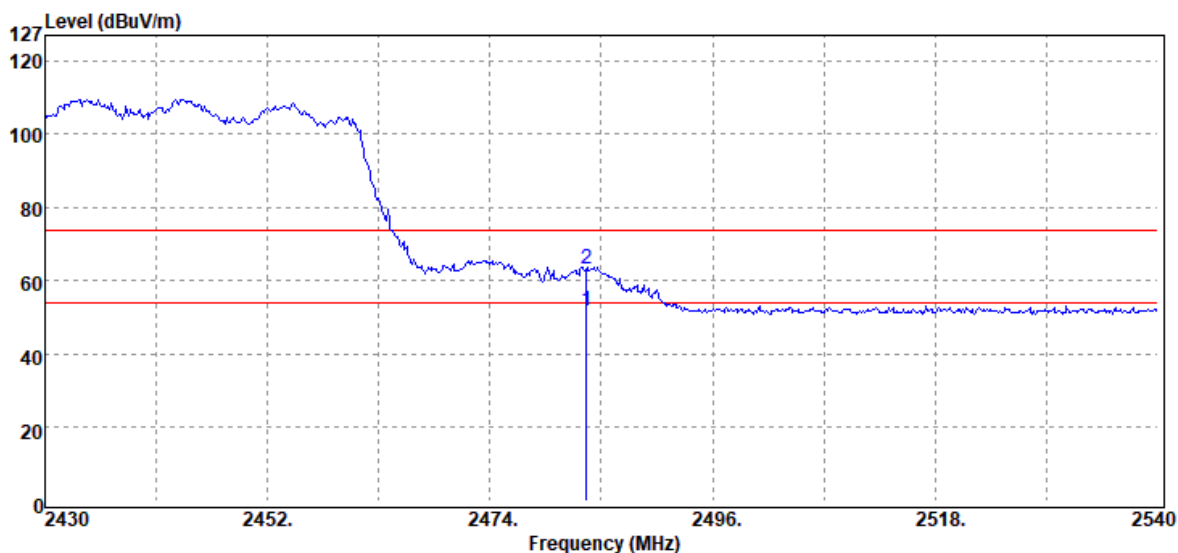
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2442 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	51.12	0.54	51.66	54.00	-2.34
2483.50	Peak	62.81	0.54	63.35	74.00	-10.65

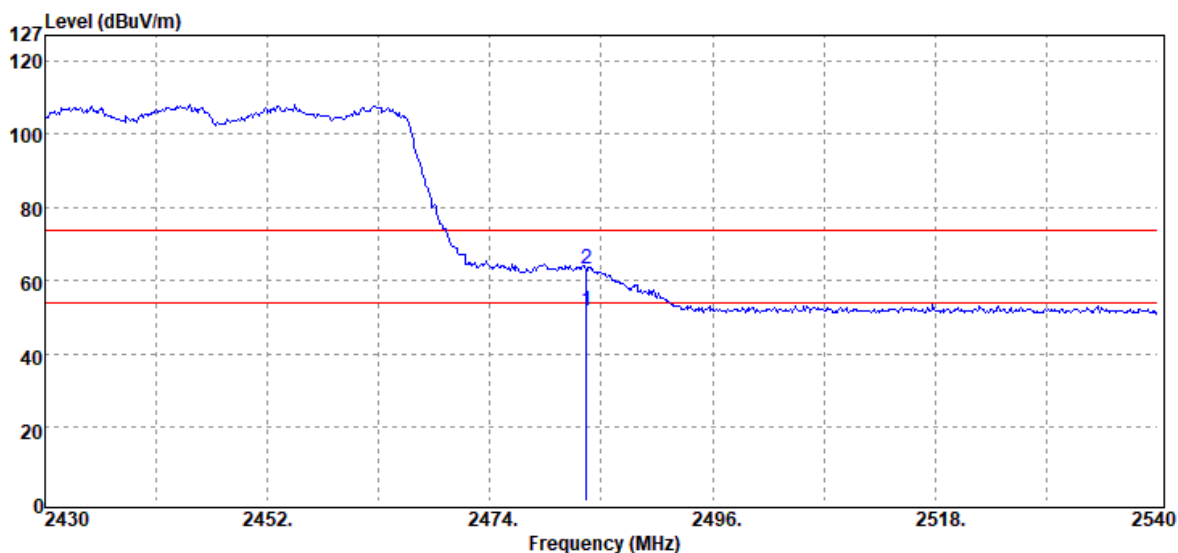
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2447 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	51.25	0.54	51.79	54.00	-2.21
2483.50	Peak	62.94	0.54	63.48	74.00	-10.52

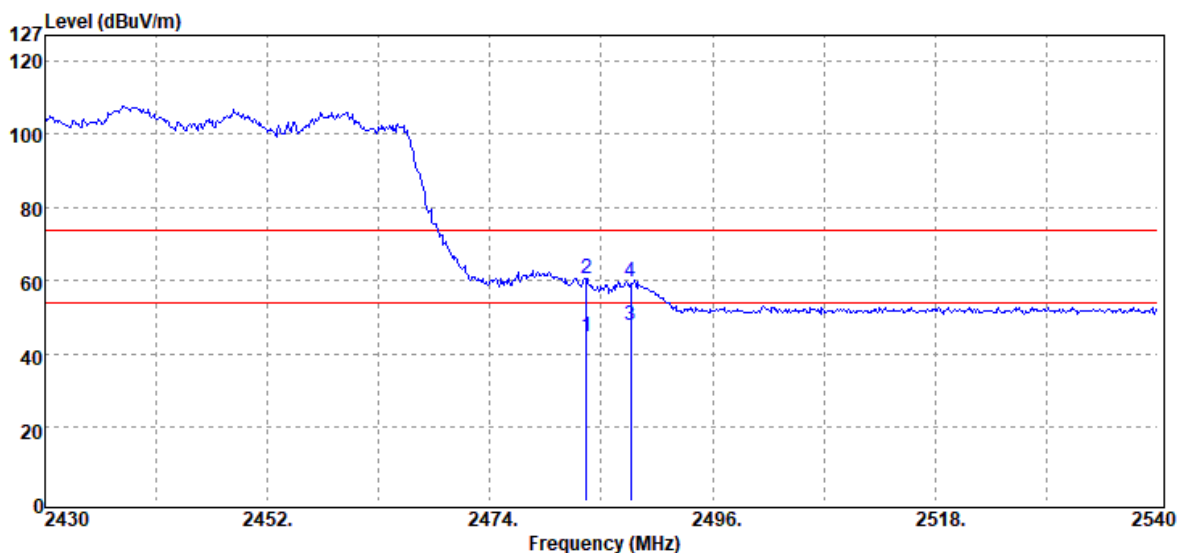
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2447 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	44.38	0.54	44.92	54.00	-9.08
2483.50	Peak	60.05	0.54	60.59	74.00	-13.41
2487.90	Average	47.30	0.53	47.83	54.00	-6.17
2487.90	Peak	59.26	0.53	59.79	74.00	-14.21

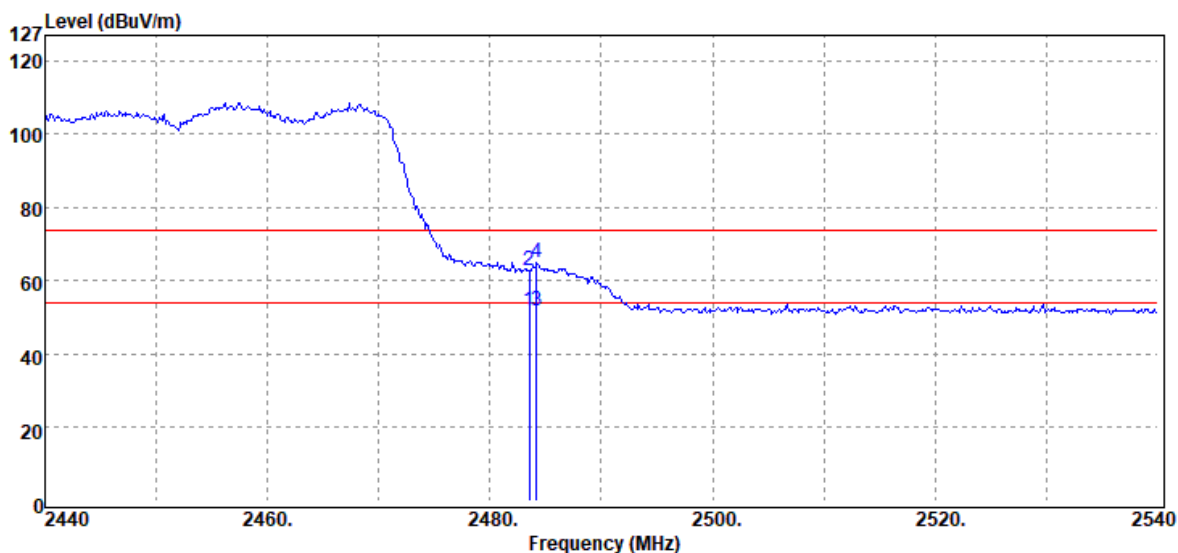
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	51.23	0.54	51.77	54.00	-2.23
2483.50	Peak	62.48	0.54	63.02	74.00	-10.98
2484.20	Average	51.30	0.54	51.84	54.00	-2.16
2484.20	Peak	64.33	0.54	64.87	74.00	-9.13

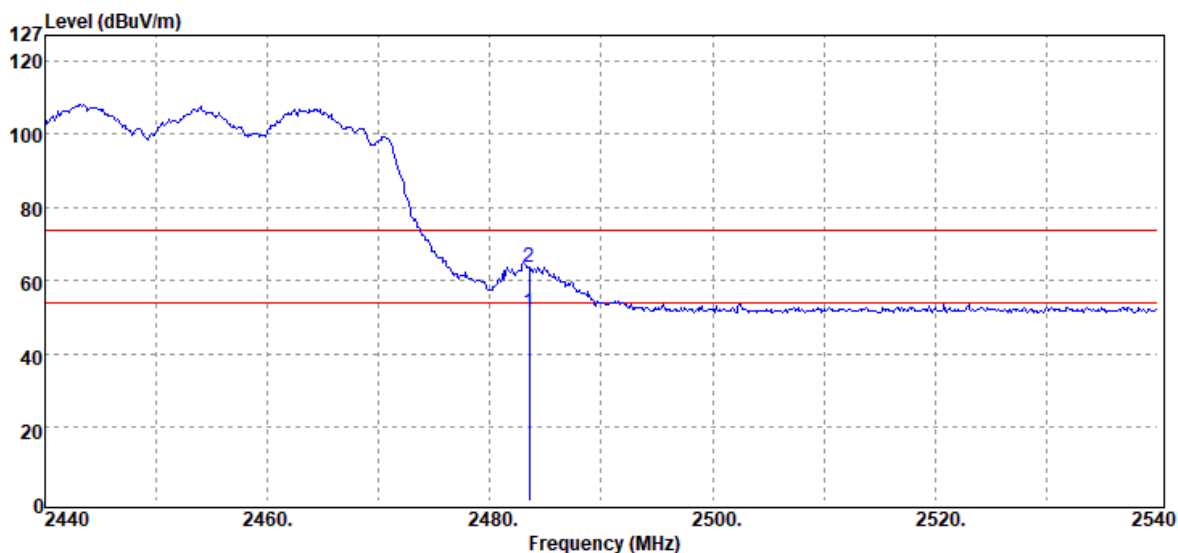
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	51.02	0.54	51.56	54.00	-2.44
2483.50	Peak	63.20	0.54	63.74	74.00	-10.26

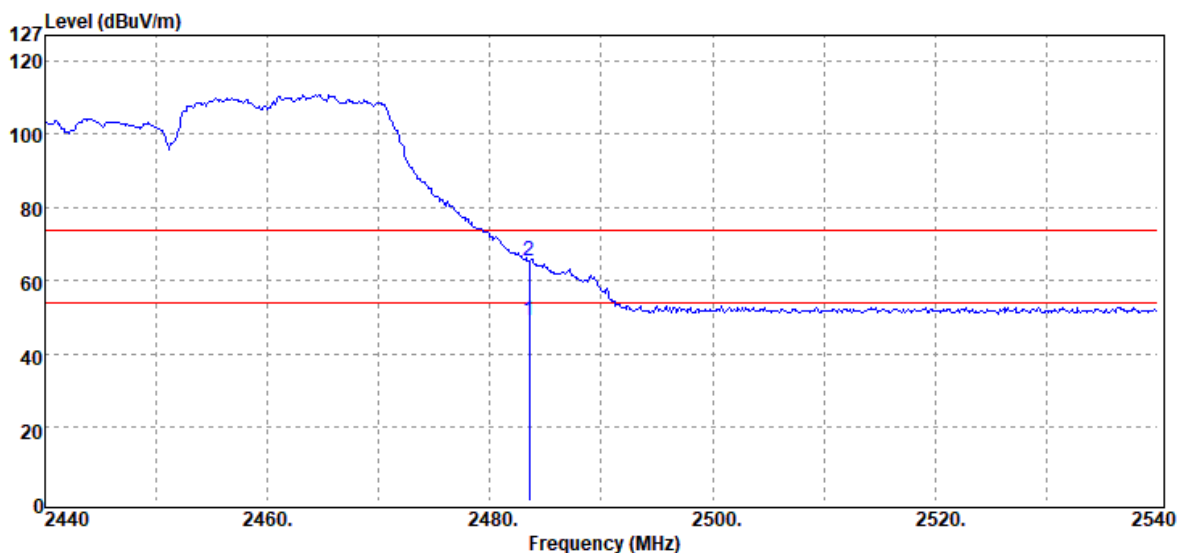
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU 242/62
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	48.64	0.54	49.18	54.00	-4.82
2483.50	Peak	64.78	0.54	65.32	74.00	-8.68

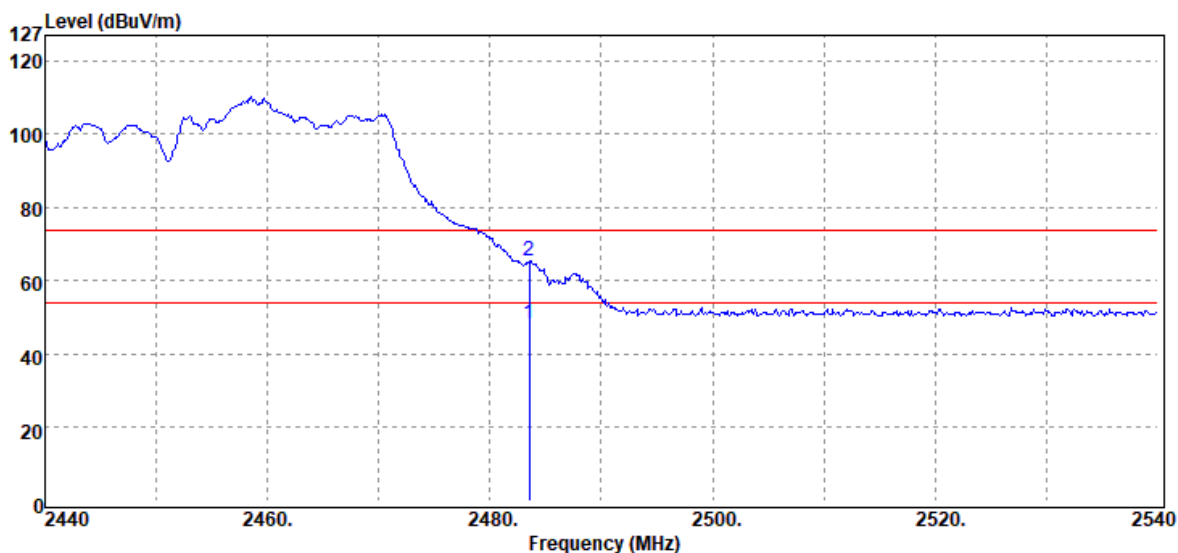
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU 242/62
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	47.62	0.54	48.16	54.00	-5.84
2483.50	Peak	64.97	0.54	65.51	74.00	-8.49

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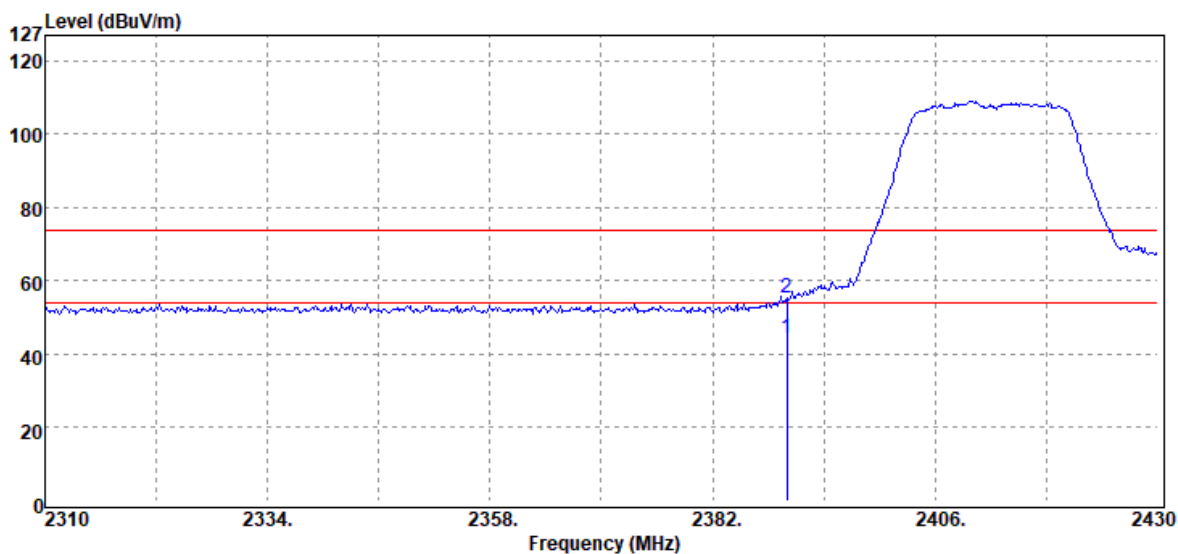
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Beamforming

Report Number :ER-2021-20091
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	43.59	0.76	44.35	54.00	-9.65
2390.00	Peak	54.41	0.76	55.17	74.00	-18.83

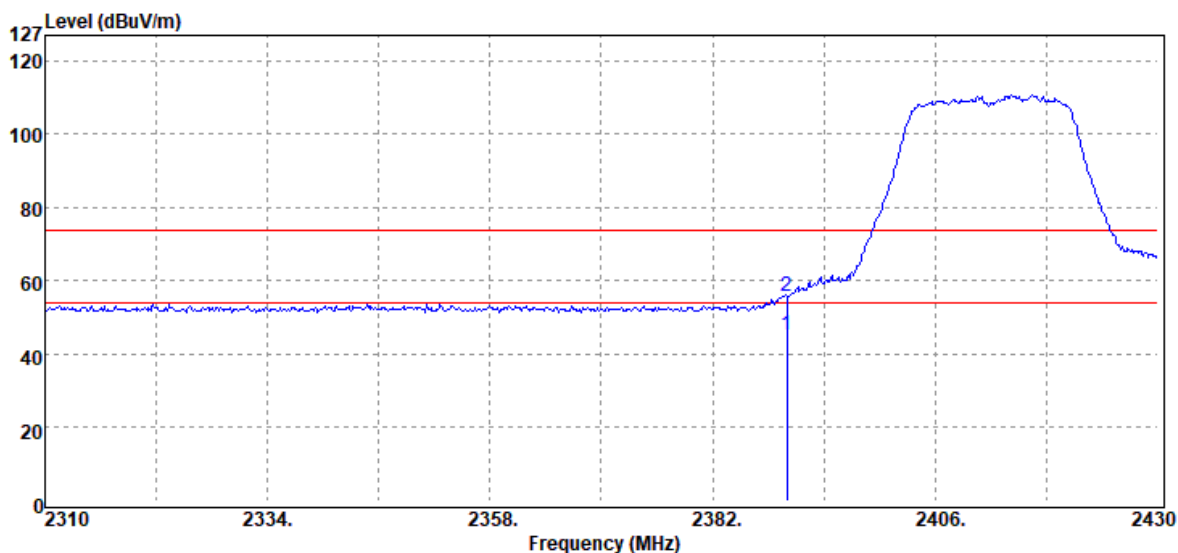
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Report Number :ER-2021-20091
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	44.30	0.76	45.06	54.00	-8.94
2390.00	Peak	55.08	0.76	55.84	74.00	-18.16

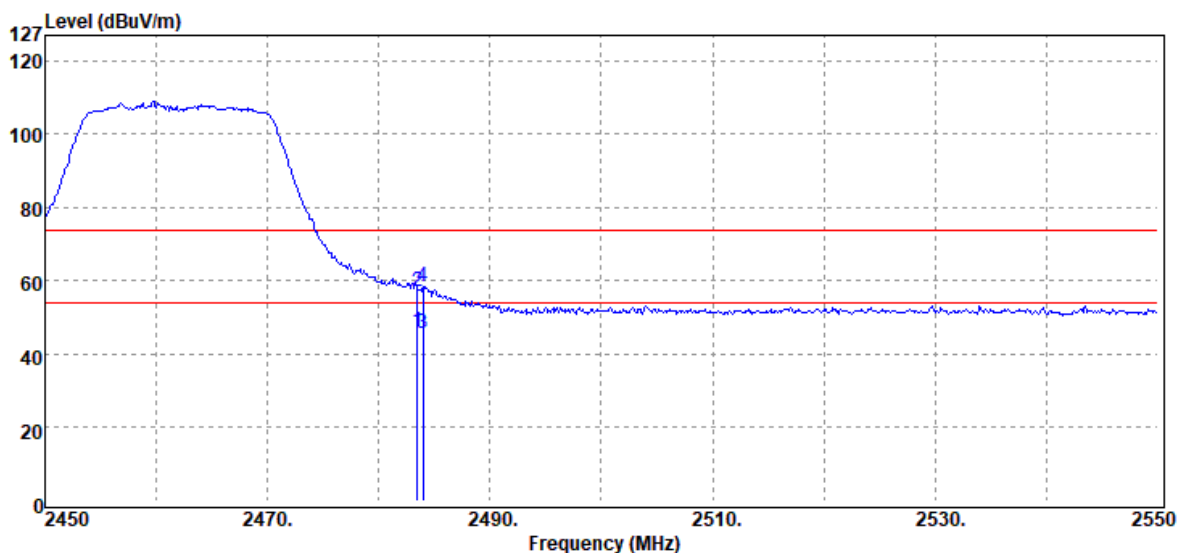
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Report Number :ER-2021-20091
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	45.41	0.54	45.95	54.00	-8.05
2483.50	Peak	56.69	0.54	57.23	74.00	-16.77
2484.00	Average	45.04	0.54	45.58	54.00	-8.42
2484.00	Peak	58.06	0.54	58.60	74.00	-15.40

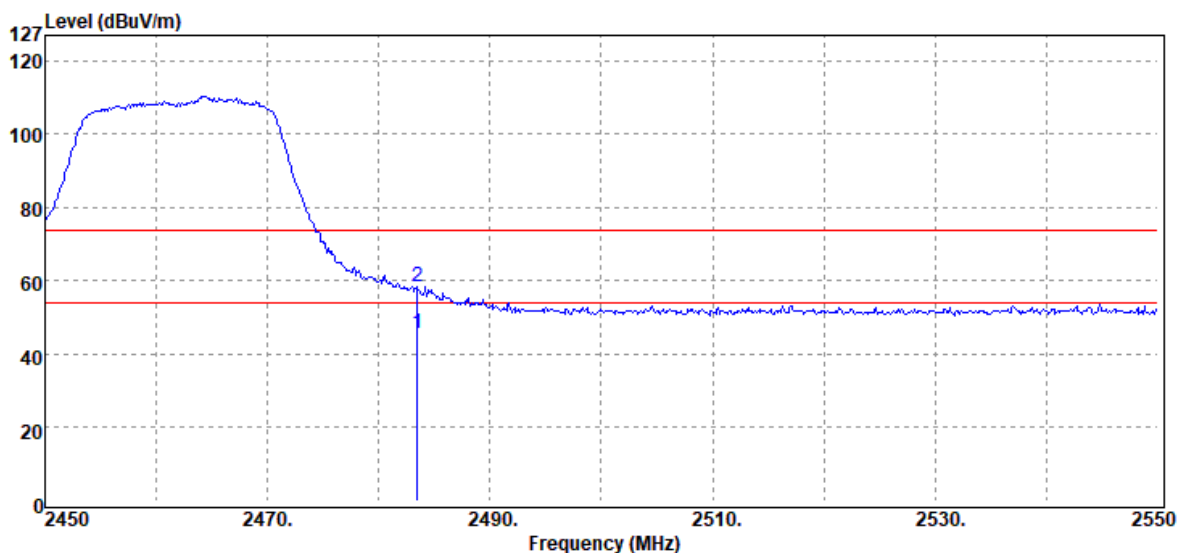
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Report Number :ER-2021-20091
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	45.31	0.54	45.85	54.00	-8.15
2483.50	Peak	57.80	0.54	58.34	74.00	-15.66

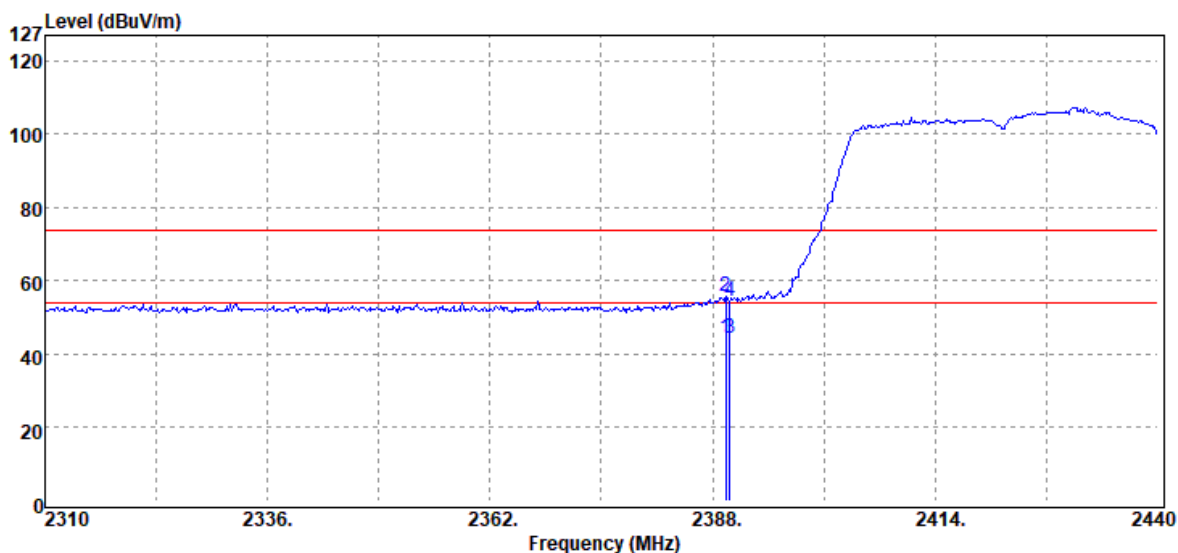
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2389.56	Average	43.55	0.76	44.31	54.00	-9.69
2389.56	Peak	54.88	0.76	55.64	74.00	-18.36
2390.00	Average	43.61	0.76	44.37	54.00	-9.63
2390.00	Peak	53.77	0.76	54.53	74.00	-19.47

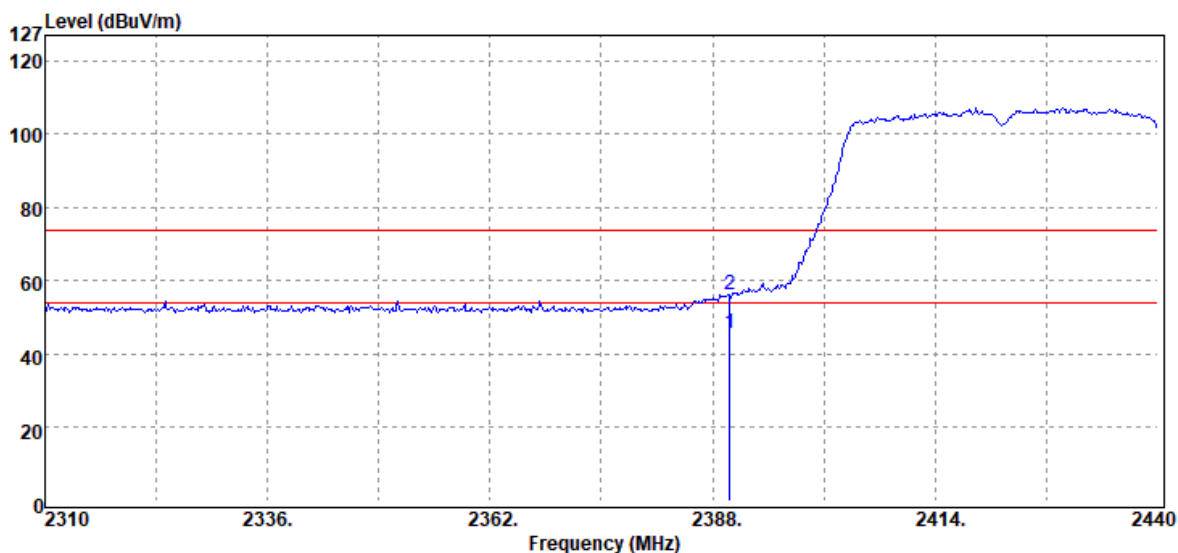
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2390.00	Average	44.96	0.76	45.72	54.00	-8.28
2390.00	Peak	55.34	0.76	56.10	74.00	-17.90

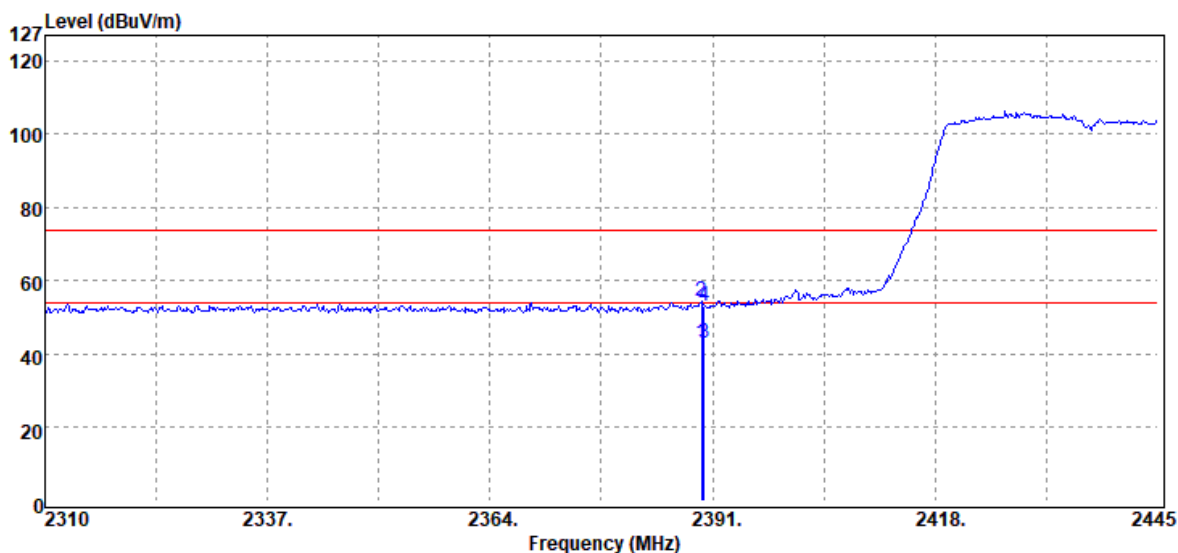
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Bandedge CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2389.65	Average	42.41	0.76	43.17	54.00	-10.83
2389.65	Peak	53.61	0.76	54.37	74.00	-19.63
2390.00	Average	42.45	0.76	43.21	54.00	-10.79
2390.00	Peak	52.26	0.76	53.02	74.00	-20.98

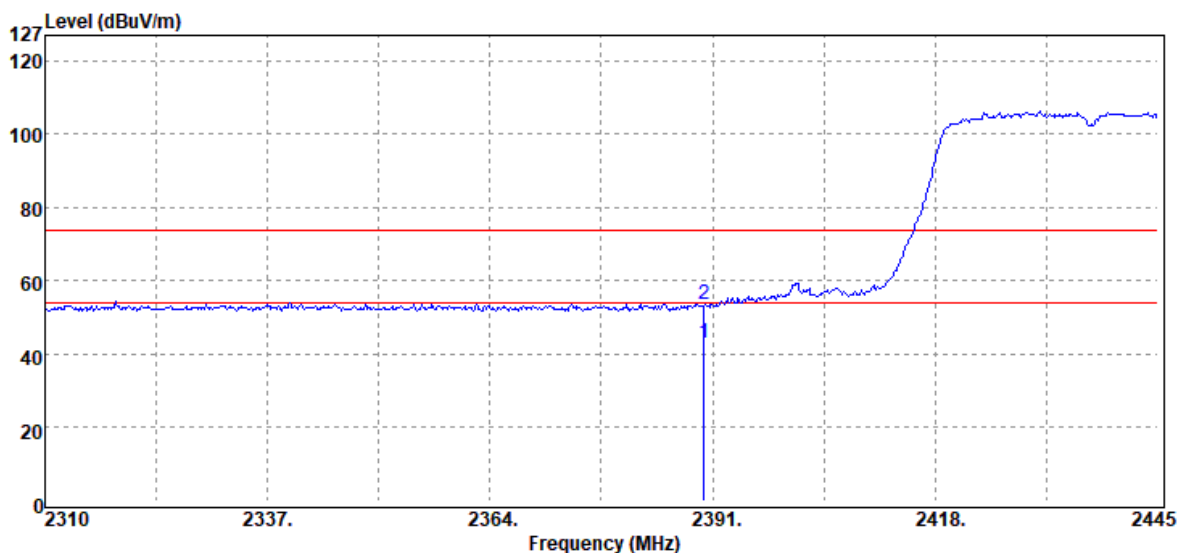
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Bandedge CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2390.00	Average	42.21	0.76	42.97	54.00	-11.03
2390.00	Peak	52.71	0.76	53.47	74.00	-20.53

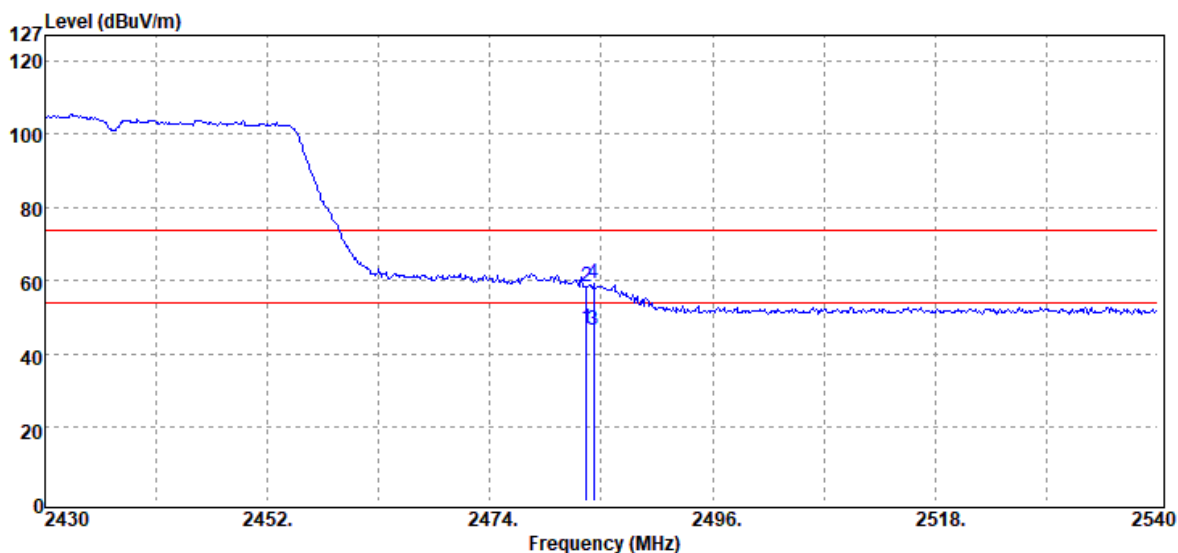
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Bandedge CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	46.35	0.54	46.89	54.00	-7.11
2483.50	Peak	57.92	0.54	58.46	74.00	-15.54
2484.23	Average	45.99	0.54	46.53	54.00	-7.47
2484.23	Peak	58.79	0.54	59.33	74.00	-14.67

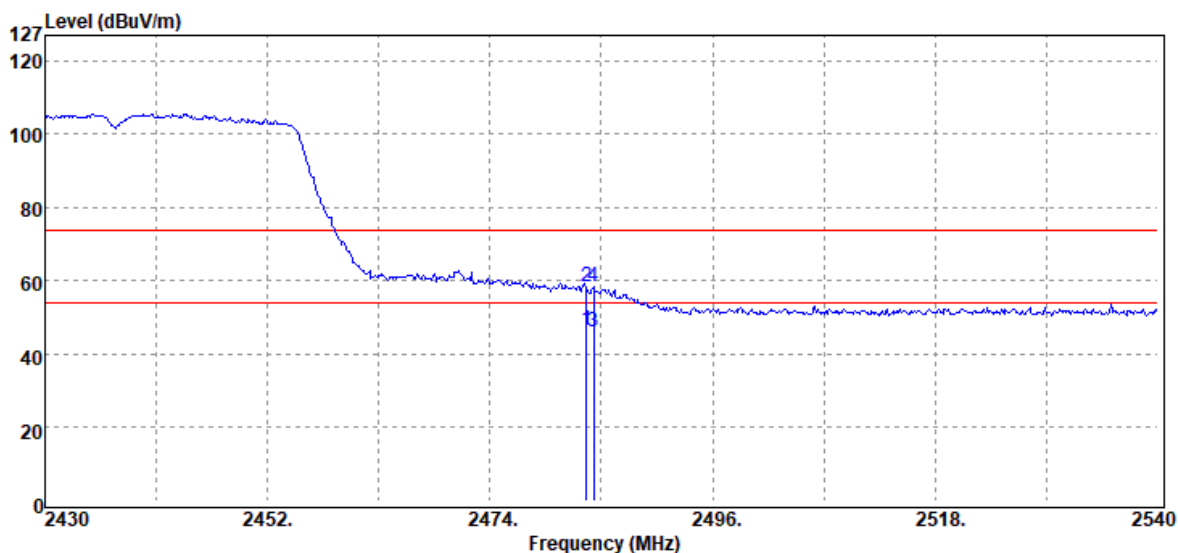
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Bandedge CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	46.11	0.54	46.65	54.00	-7.35
2483.50	Peak	57.91	0.54	58.45	74.00	-15.55
2484.23	Average	45.76	0.54	46.30	54.00	-7.70
2484.23	Peak	57.77	0.54	58.31	74.00	-15.69

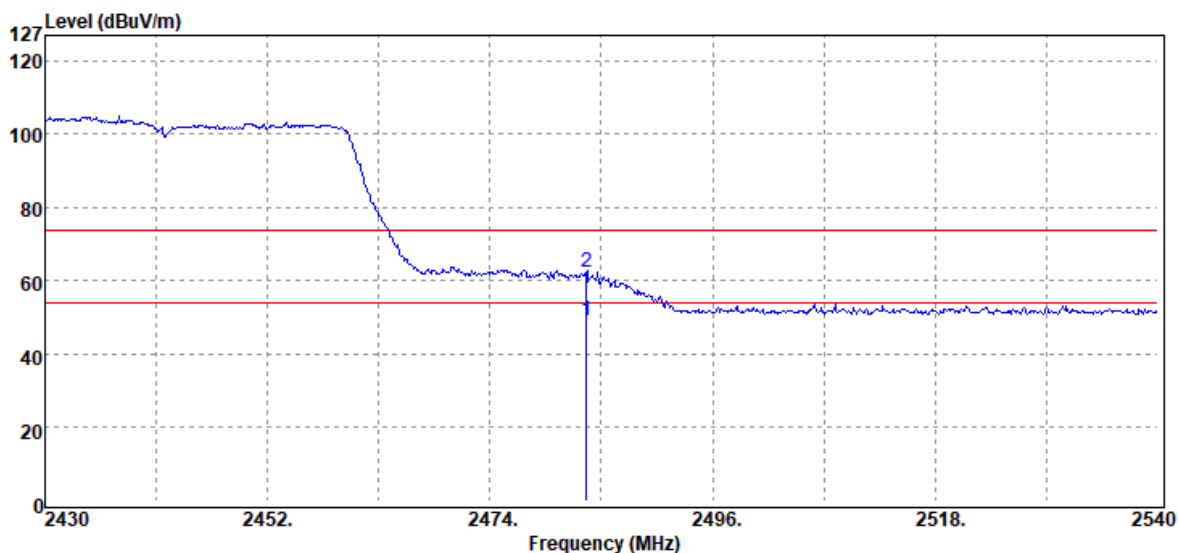
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2442 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	48.66	0.54	49.20	54.00	-4.80
2483.50	Peak	61.75	0.54	62.29	74.00	-11.71

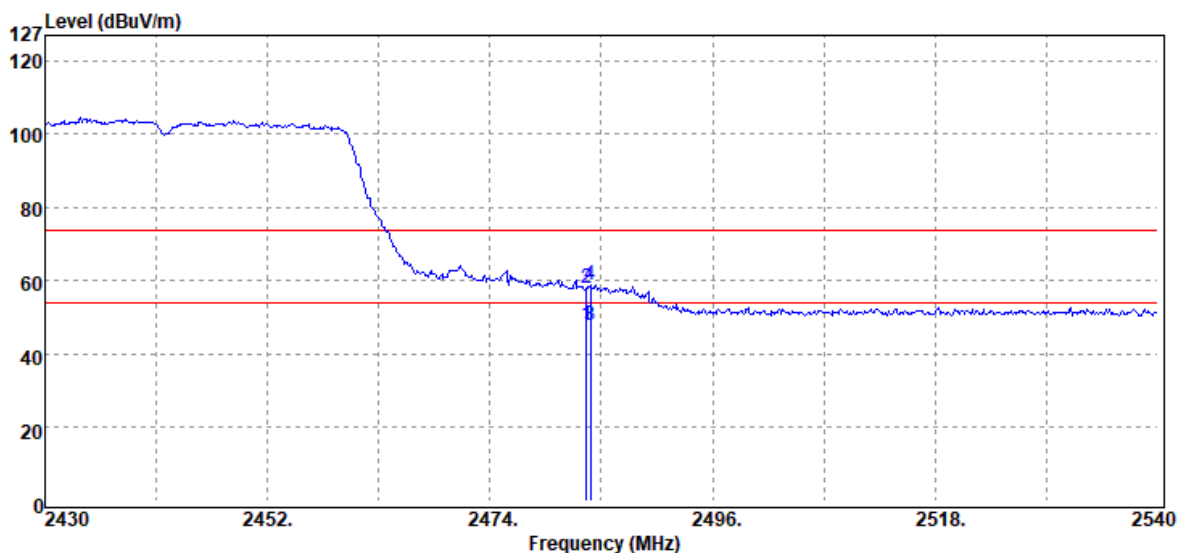
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2442 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	47.25	0.54	47.79	54.00	-6.21
2483.50	Peak	57.66	0.54	58.20	74.00	-15.80
2483.90	Average	47.15	0.54	47.69	54.00	-6.31
2483.90	Peak	58.41	0.54	58.95	74.00	-15.05

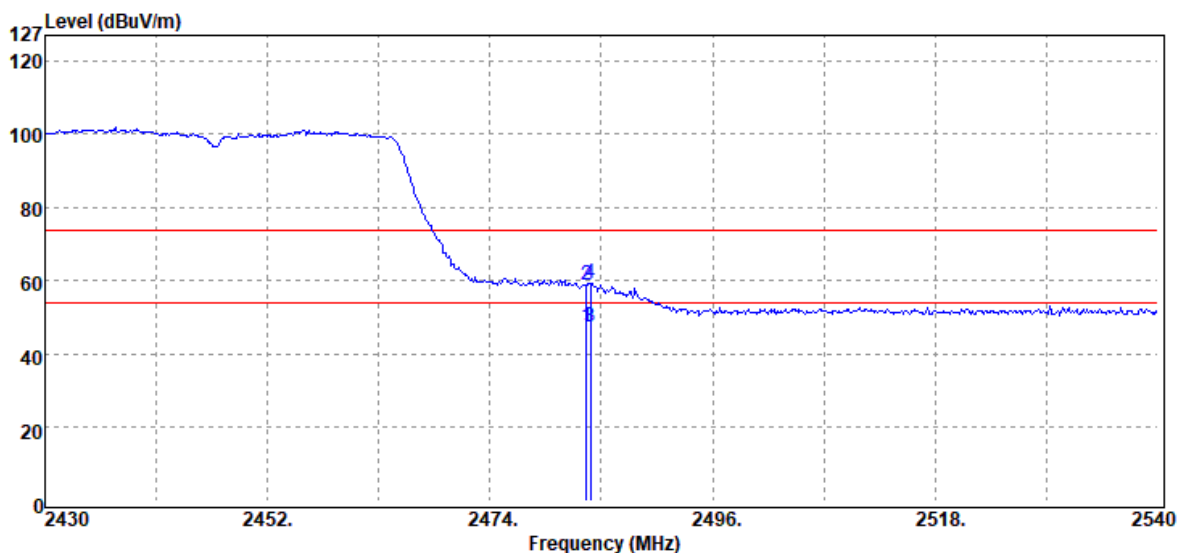
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2447 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	47.05	0.54	47.59	54.00	-6.41
2483.50	Peak	58.55	0.54	59.09	74.00	-14.91
2483.90	Average	46.85	0.54	47.39	54.00	-6.61
2483.90	Peak	58.99	0.54	59.53	74.00	-14.47

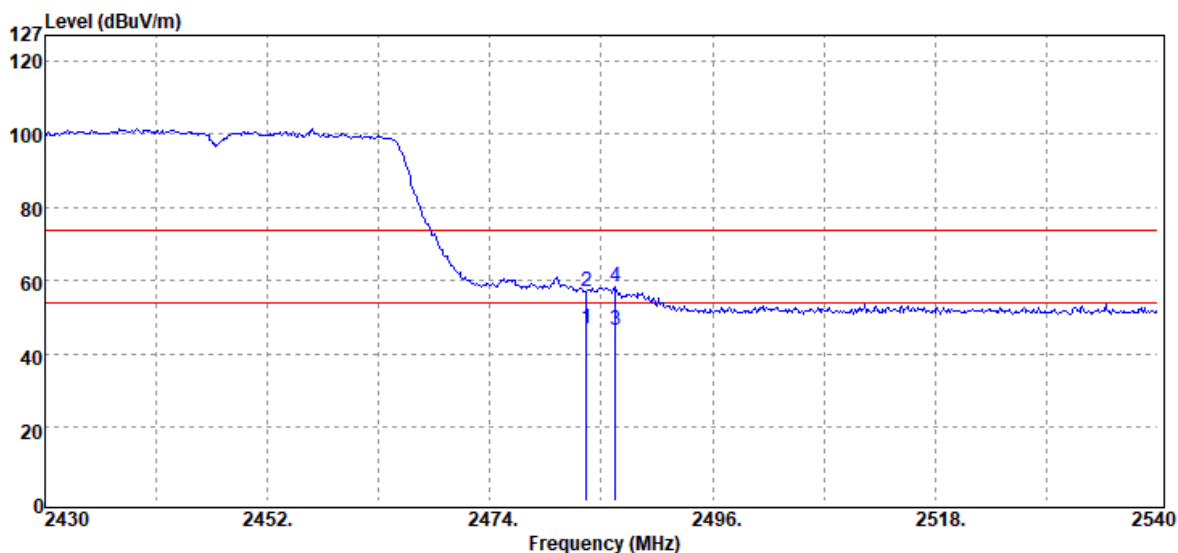
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2447 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	46.52	0.54	47.06	54.00	-6.94
2483.50	Peak	56.67	0.54	57.21	74.00	-16.79
2486.43	Average	45.86	0.54	46.40	54.00	-7.60
2486.43	Peak	57.83	0.54	58.37	74.00	-15.63

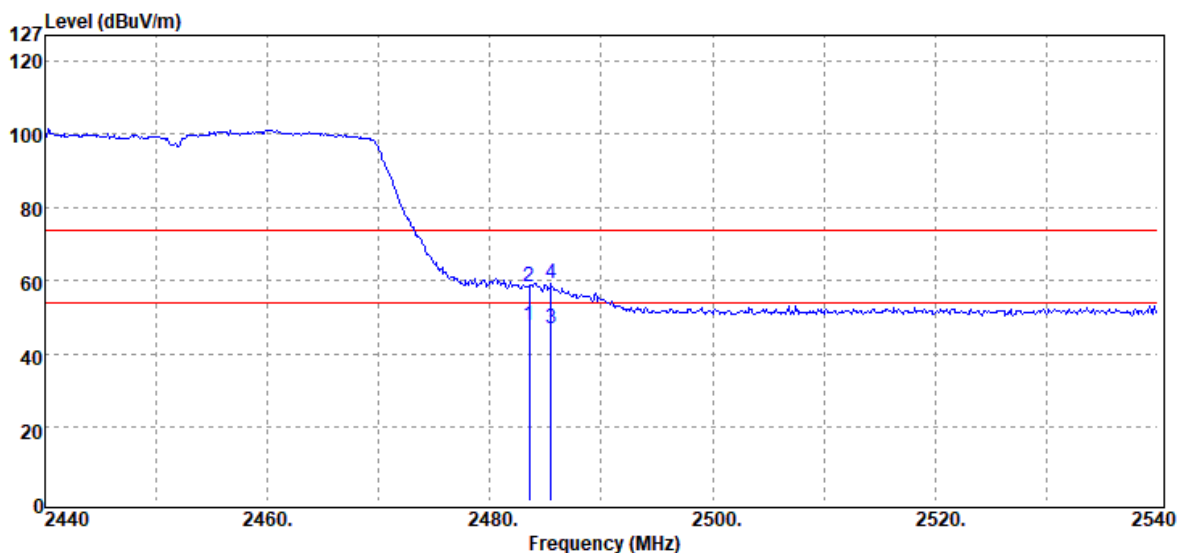
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	47.19	0.54	47.73	54.00	-6.27
2483.50	Peak	58.12	0.54	58.66	74.00	-15.34
2485.50	Average	46.40	0.54	46.94	54.00	-7.06
2485.50	Peak	58.68	0.54	59.22	74.00	-14.78

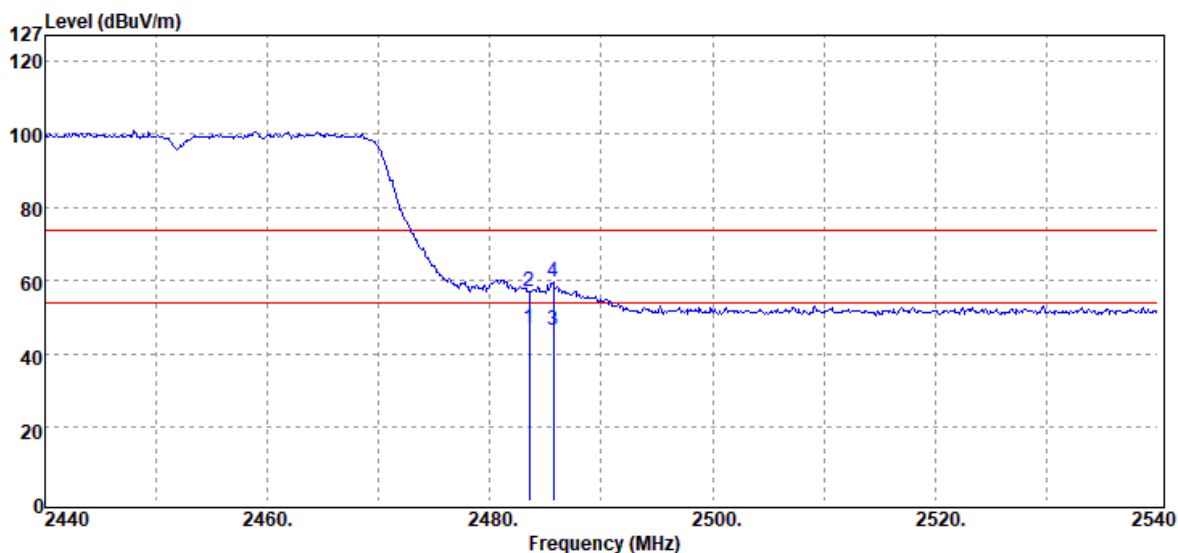
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 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	46.61	0.54	47.15	54.00	-6.85
2483.50	Peak	56.46	0.54	57.00	74.00	-17.00
2485.70	Average	46.14	0.54	46.68	54.00	-7.32
2485.70	Peak	59.08	0.54	59.62	74.00	-14.38

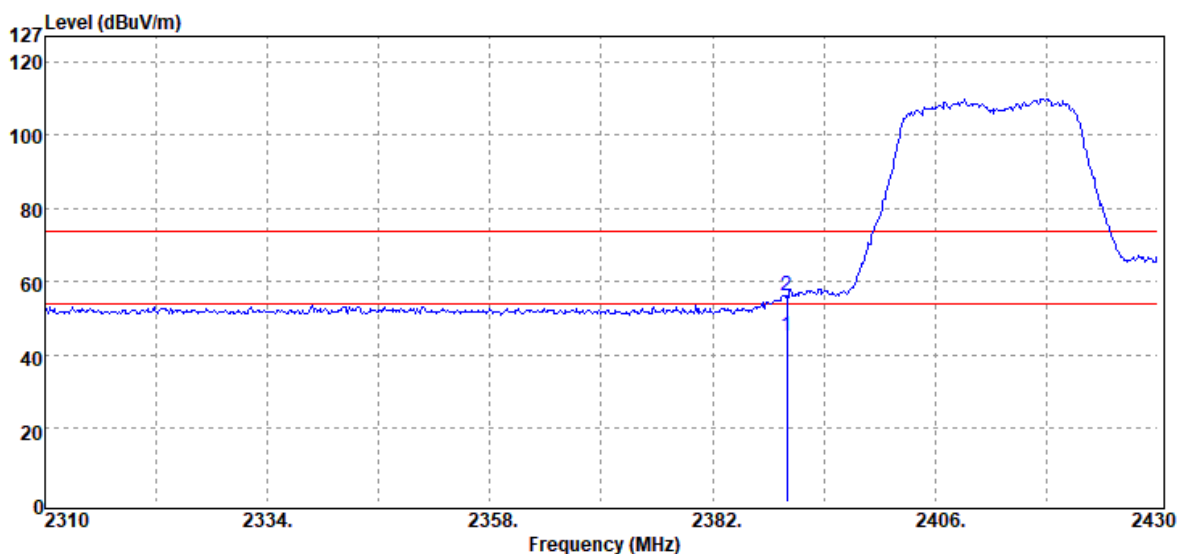
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Report Number :ER-2021-20091
Operation Mode :802.11ax20 RU full
Test Frequency :2412 MHz
Test Mode :Bandedge CH Low
EUT Pol :H Plane

Test Site :SAC III Chamber
Test Date :2021-03-15
Temp./Humi. :22.4/61
Antenna Pol. :VERTICAL
Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	44.36	0.76	45.12	54.00	-8.88
2390.00	Peak	55.39	0.76	56.15	74.00	-17.85

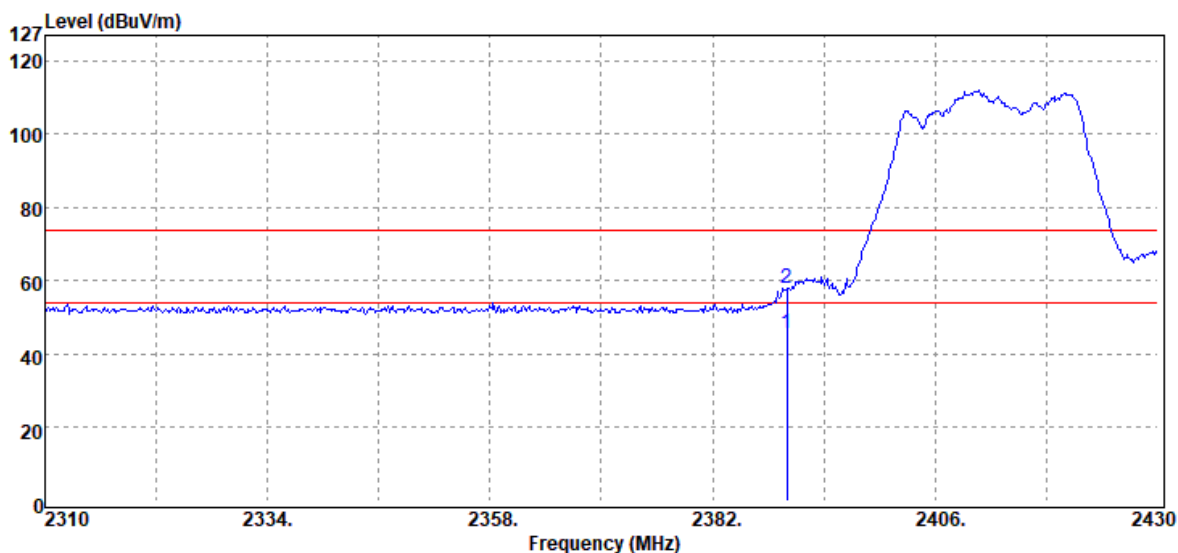
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU full
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	44.98	0.76	45.74	54.00	-8.26
2390.00	Peak	57.13	0.76	57.89	74.00	-16.11

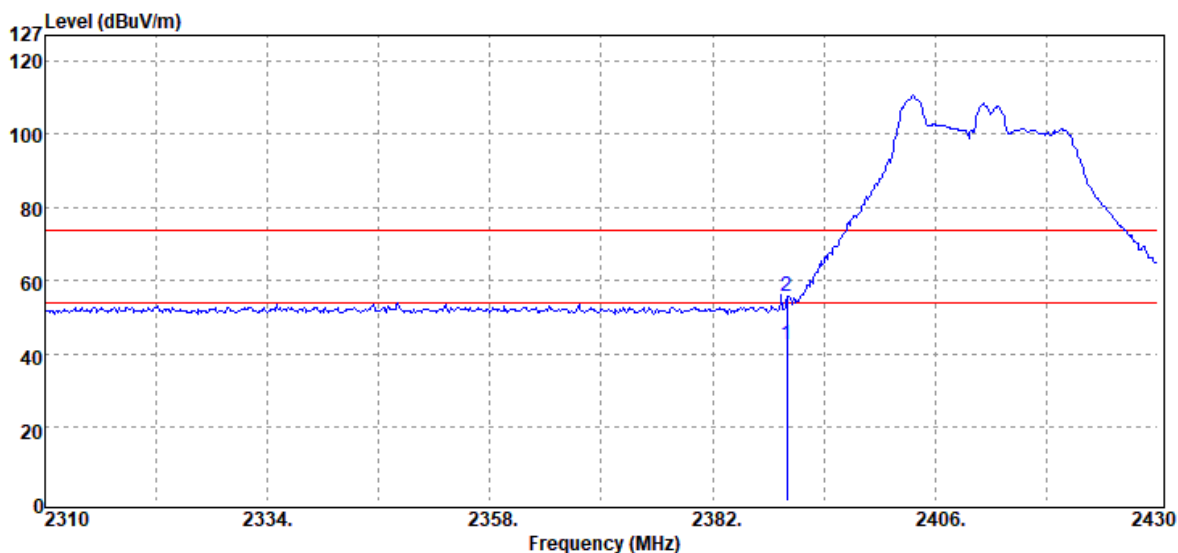
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 26/0
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	41.72	0.76	42.48	54.00	-11.52
2390.00	Peak	55.16	0.76	55.92	74.00	-18.08

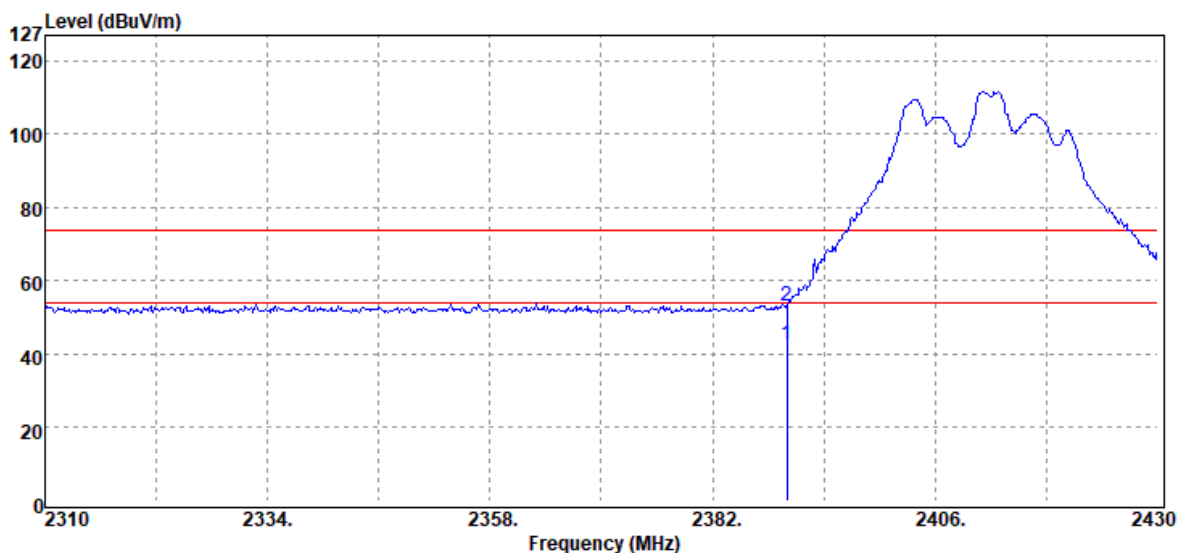
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 26/0
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	41.83	0.76	42.59	54.00	-11.41
2390.00	Peak	52.44	0.76	53.20	74.00	-20.80

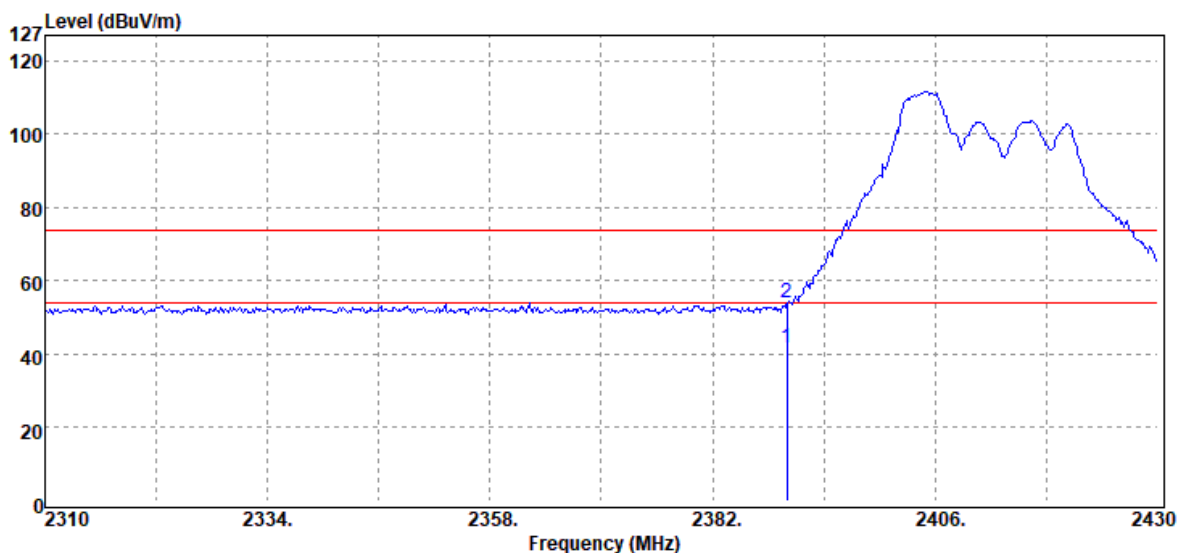
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 52/37
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	41.15	0.76	41.91	54.00	-12.09
2390.00	Peak	53.09	0.76	53.85	74.00	-20.15

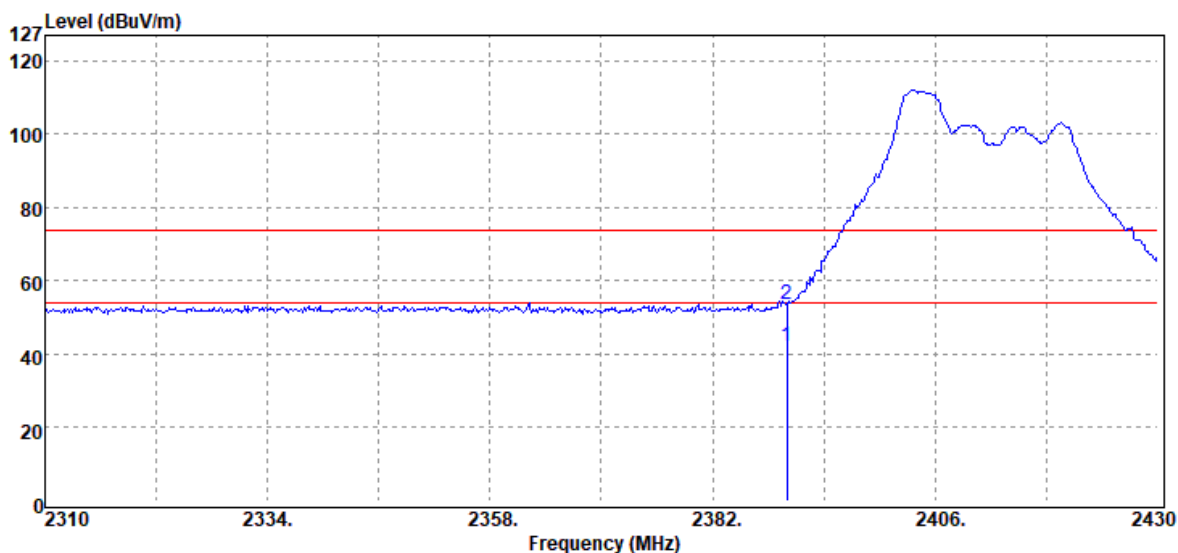
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 52/37
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	41.56	0.76	42.32	54.00	-11.68
2390.00	Peak	53.05	0.76	53.81	74.00	-20.19

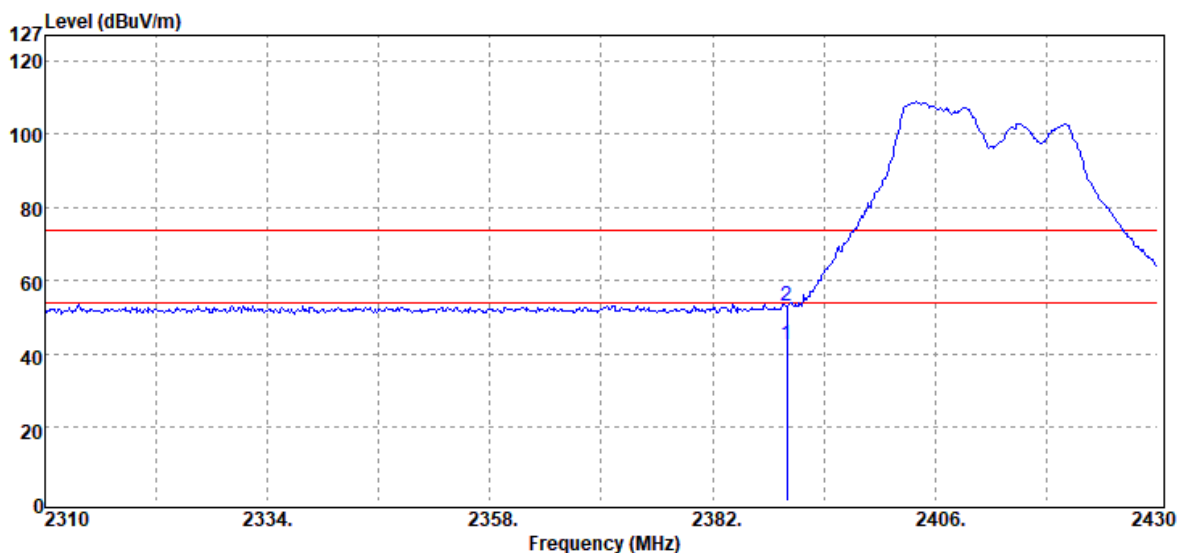
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 106/53
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2390.00	Average	41.67	0.76	42.43	54.00	-11.57
2390.00	Peak	52.45	0.76	53.21	74.00	-20.79

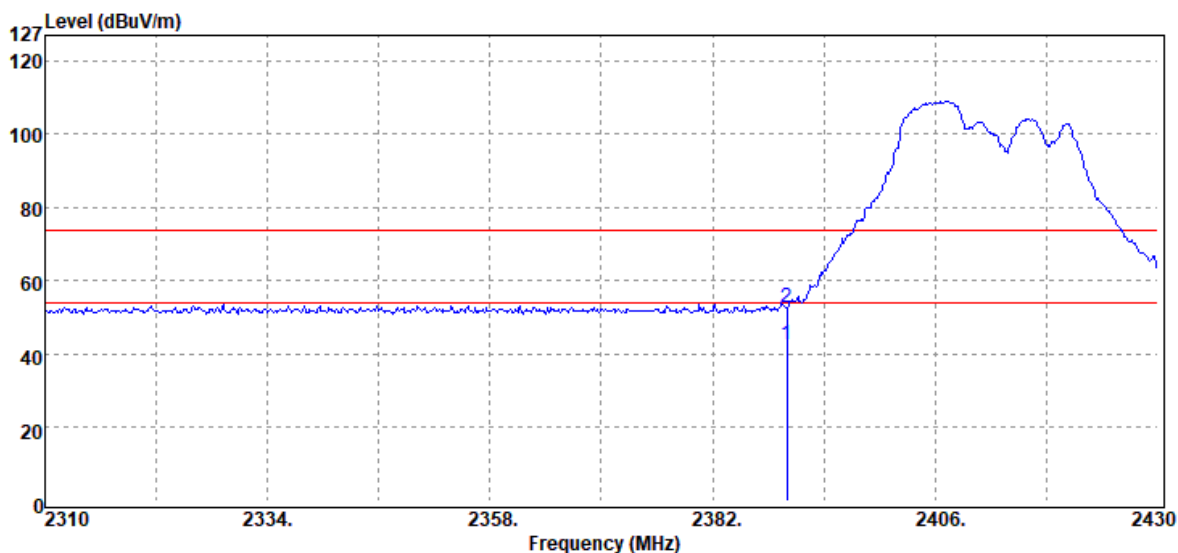
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 106/53
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	41.69	0.76	42.45	54.00	-11.55
2390.00	Peak	52.14	0.76	52.90	74.00	-21.10

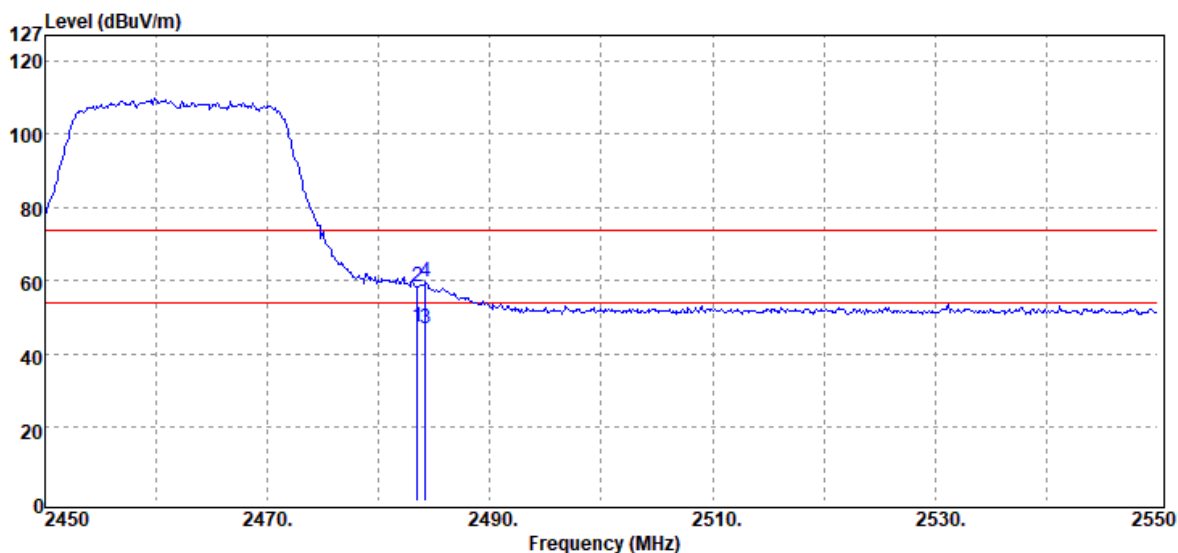
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU full
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	46.83	0.54	47.37	54.00	-6.63
2483.50	Peak	57.89	0.54	58.43	74.00	-15.57
2484.20	Average	46.52	0.54	47.06	54.00	-6.94
2484.20	Peak	59.39	0.54	59.93	74.00	-14.07

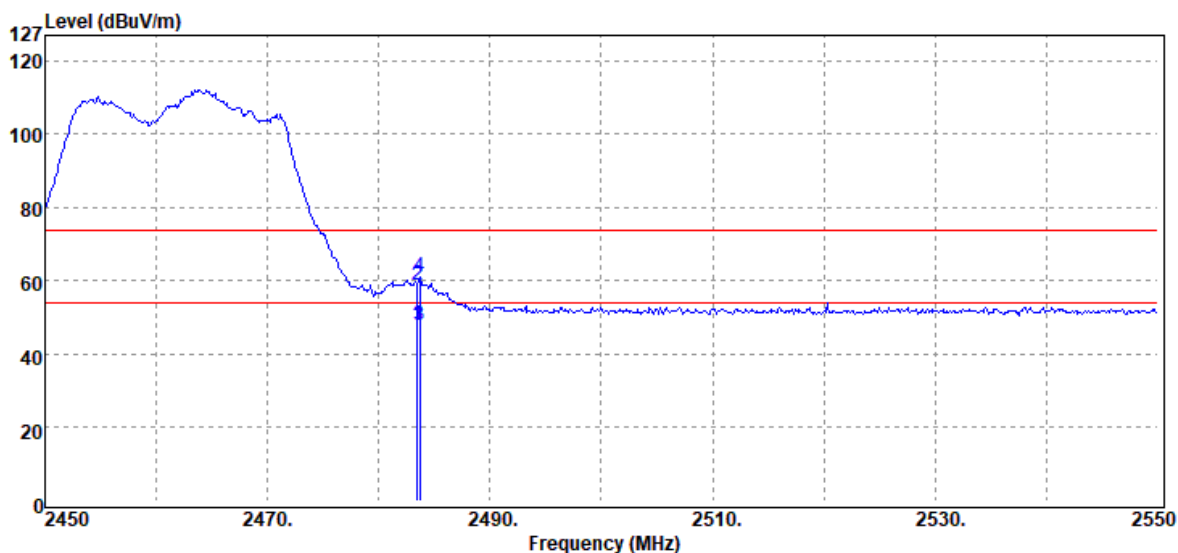
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU full
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	47.54	0.54	48.08	54.00	-5.92
2483.50	Peak	58.25	0.54	58.79	74.00	-15.21
2483.70	Average	47.32	0.54	47.86	54.00	-6.14
2483.70	Peak	60.74	0.54	61.28	74.00	-12.72

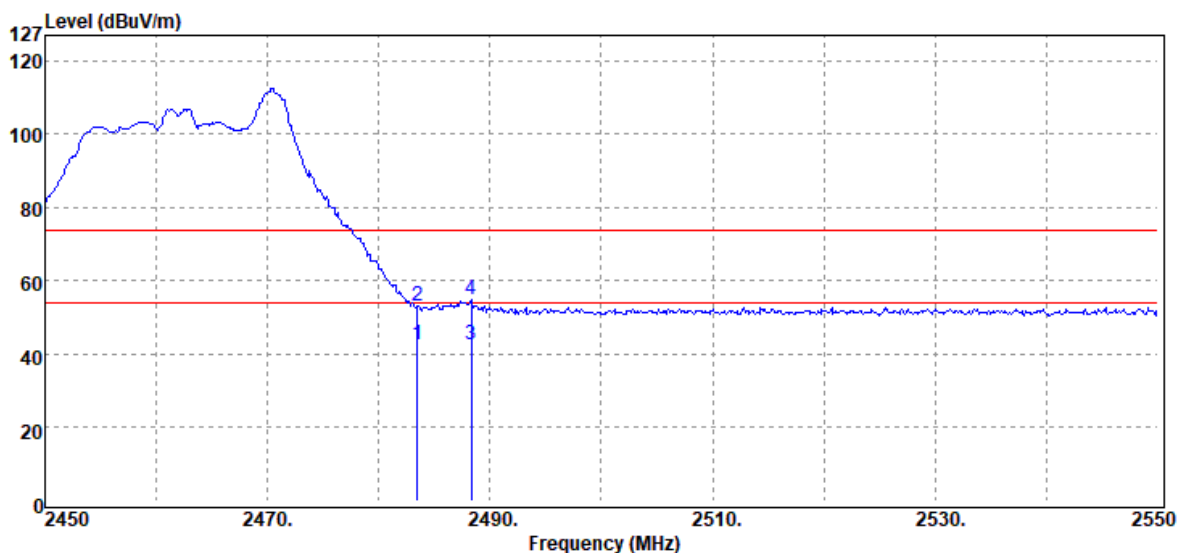
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 26/8
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	41.88	0.54	42.42	54.00	-11.58
2483.50	Peak	52.82	0.54	53.36	74.00	-20.64
2488.30	Average	42.05	0.53	42.58	54.00	-11.42
2488.30	Peak	54.55	0.53	55.08	74.00	-18.92

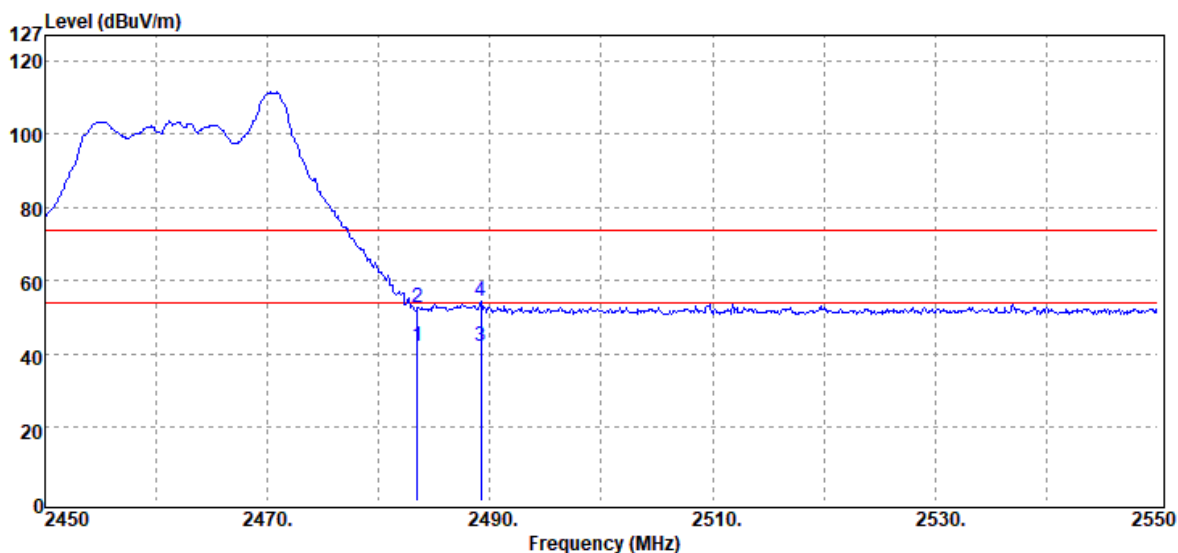
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 26/8
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	41.69	0.54	42.23	54.00	-11.77
2483.50	Peak	52.31	0.54	52.85	74.00	-21.15
2489.20	Average	41.73	0.53	42.26	54.00	-11.74
2489.20	Peak	53.97	0.53	54.50	74.00	-19.50

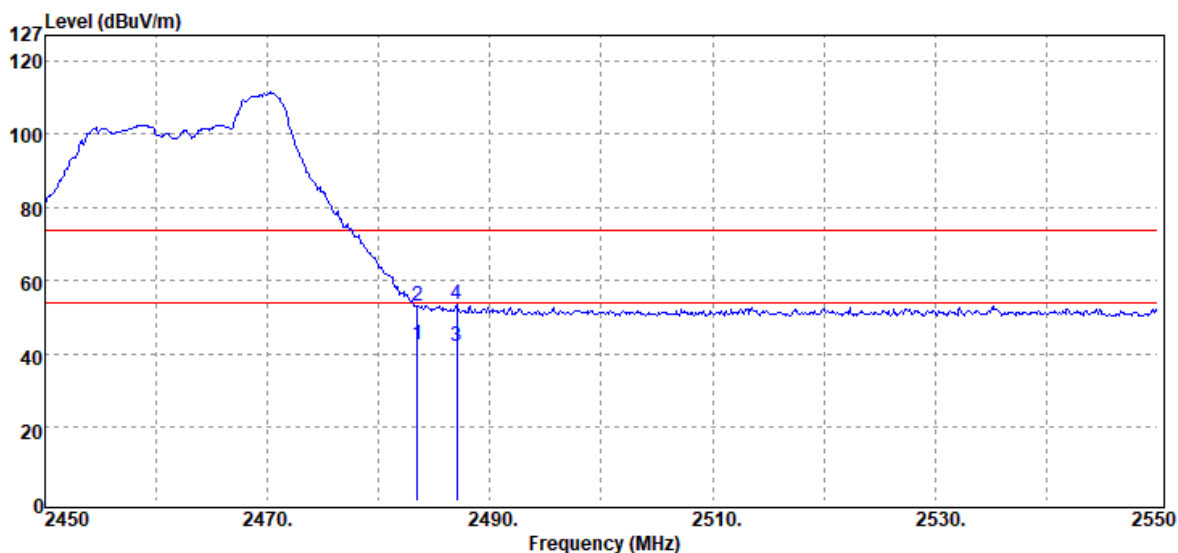
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 52/40
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	42.02	0.54	42.56	54.00	-11.44
2483.50	Peak	52.66	0.54	53.20	74.00	-20.80
2487.00	Average	41.80	0.54	42.34	54.00	-11.66
2487.00	Peak	52.99	0.54	53.53	74.00	-20.47

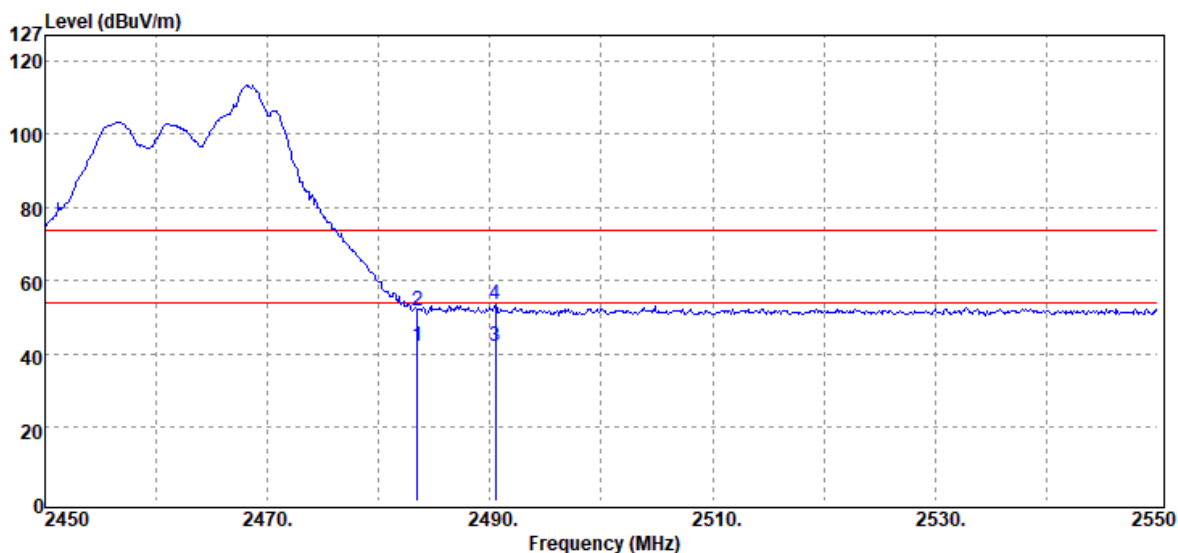
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 52/40
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	41.59	0.54	42.13	54.00	-11.87
2483.50	Peak	51.52	0.54	52.06	74.00	-21.94
2490.50	Average	41.54	0.53	42.07	54.00	-11.93
2490.50	Peak	53.18	0.53	53.71	74.00	-20.29

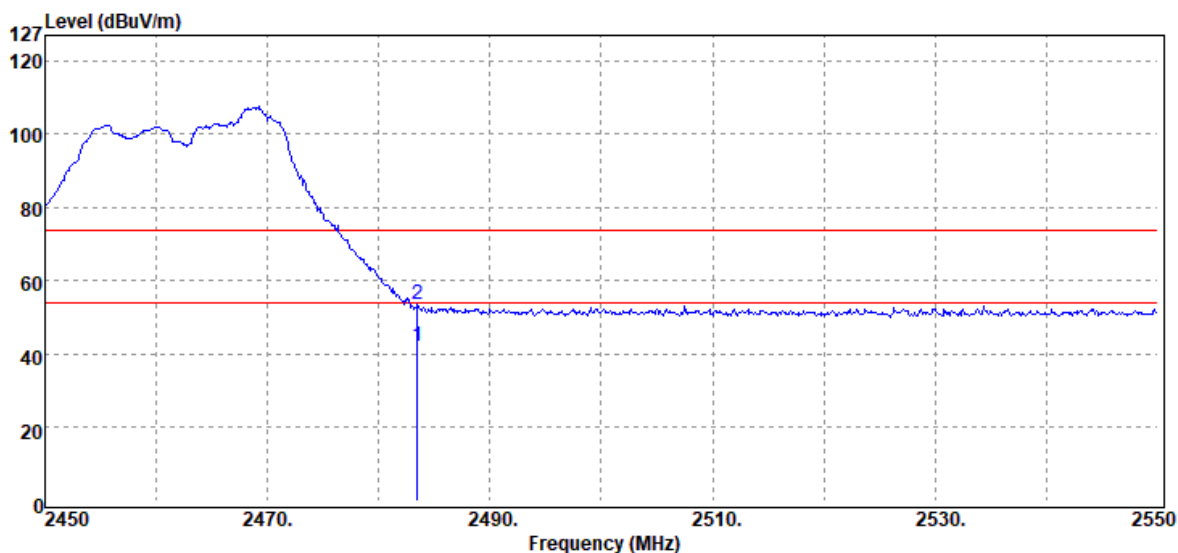
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 106/54
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2483.50	Average	41.75	0.54	42.29	54.00	-11.71
2483.50	Peak	53.04	0.54	53.58	74.00	-20.42

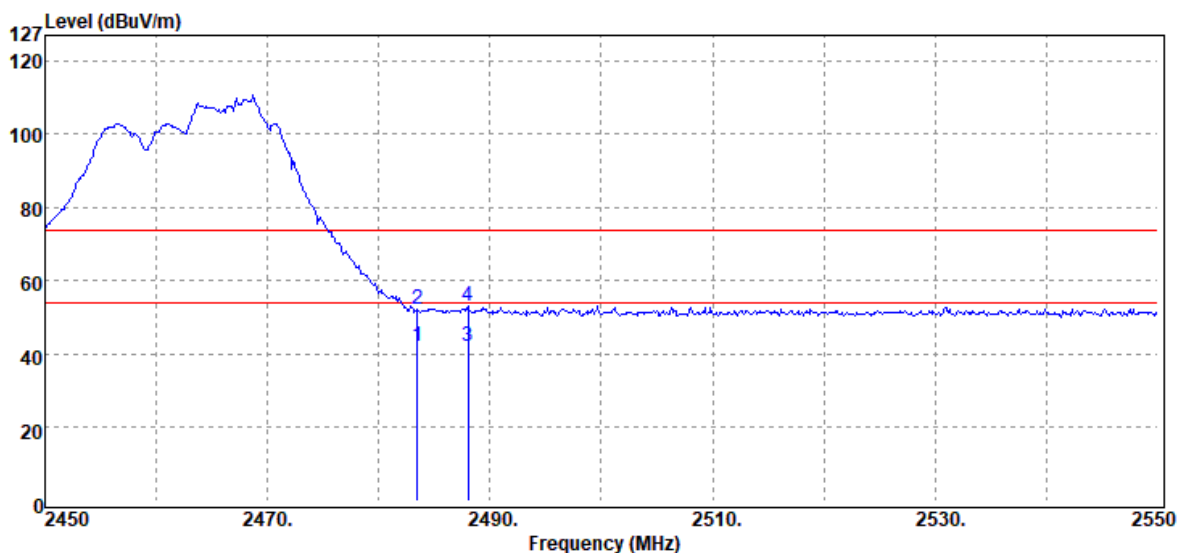
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 106/54
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	41.59	0.54	42.13	54.00	-11.87
2483.50	Peak	51.66	0.54	52.20	74.00	-21.80
2488.00	Average	41.49	0.53	42.02	54.00	-11.98
2488.00	Peak	52.68	0.53	53.21	74.00	-20.79

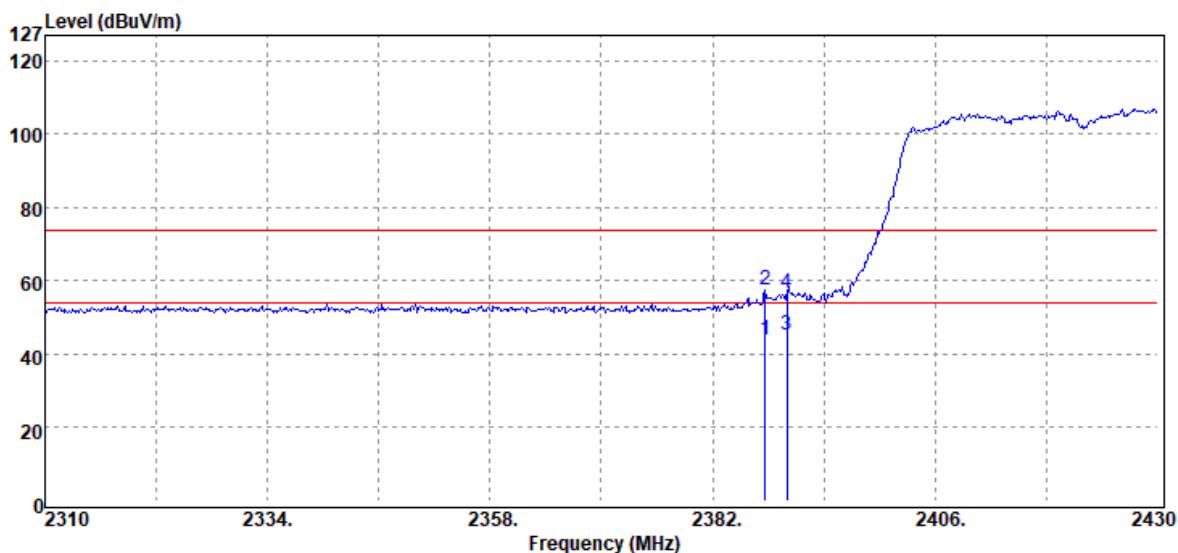
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2387.64	Average	43.31	0.76	44.07	54.00	-9.93
2387.64	Peak	56.75	0.76	57.51	74.00	-16.49
2390.00	Average	44.52	0.76	45.28	54.00	-8.72
2390.00	Peak	55.85	0.76	56.61	74.00	-17.39

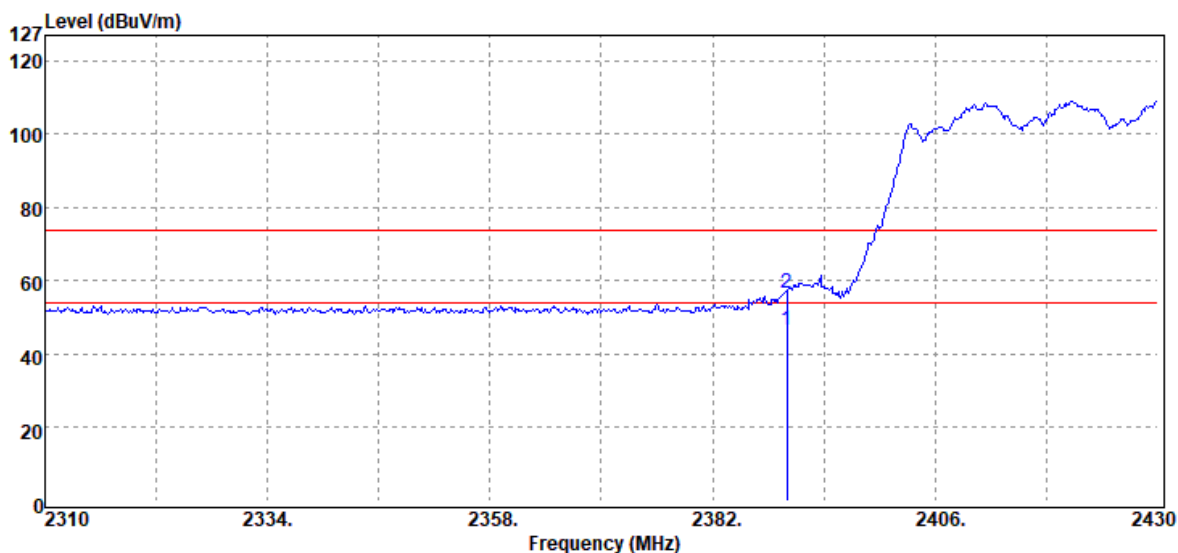
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2390.00	Average	45.67	0.76	46.43	54.00	-7.57
2390.00	Peak	56.00	0.76	56.76	74.00	-17.24

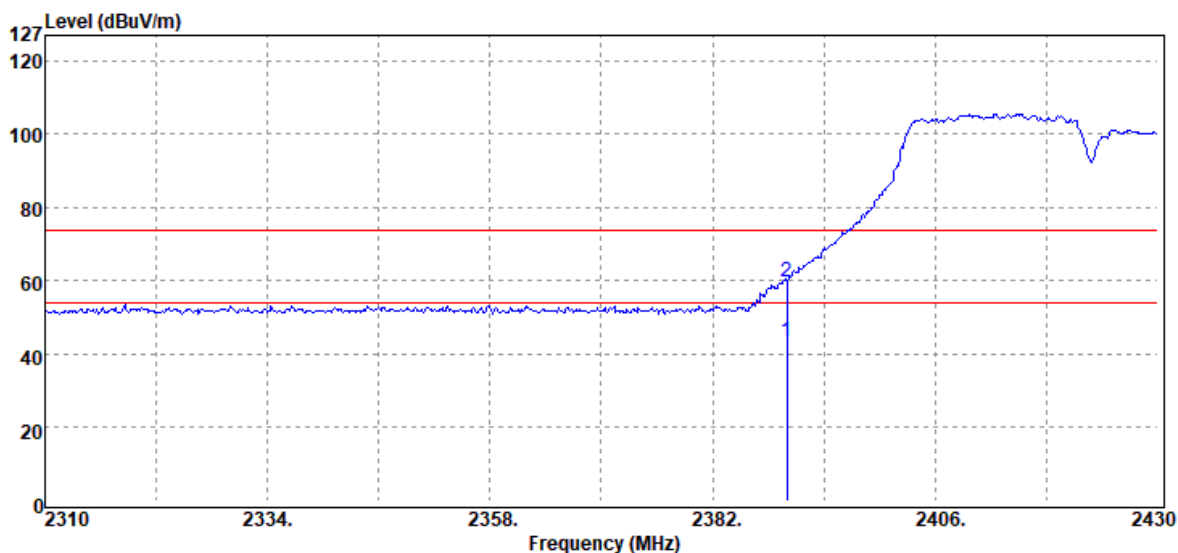
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU 242/61
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	42.82	0.76	43.58	54.00	-10.42
2390.00	Peak	59.18	0.76	59.94	74.00	-14.06

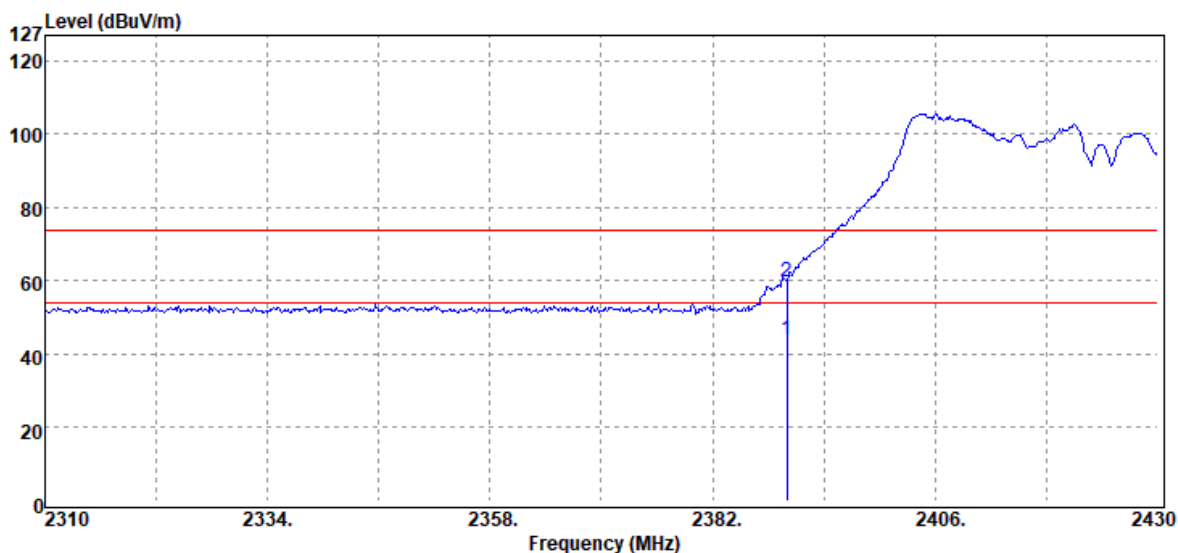
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU 242/61
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	43.25	0.76	44.01	54.00	-9.99
2390.00	Peak	59.13	0.76	59.89	74.00	-14.11

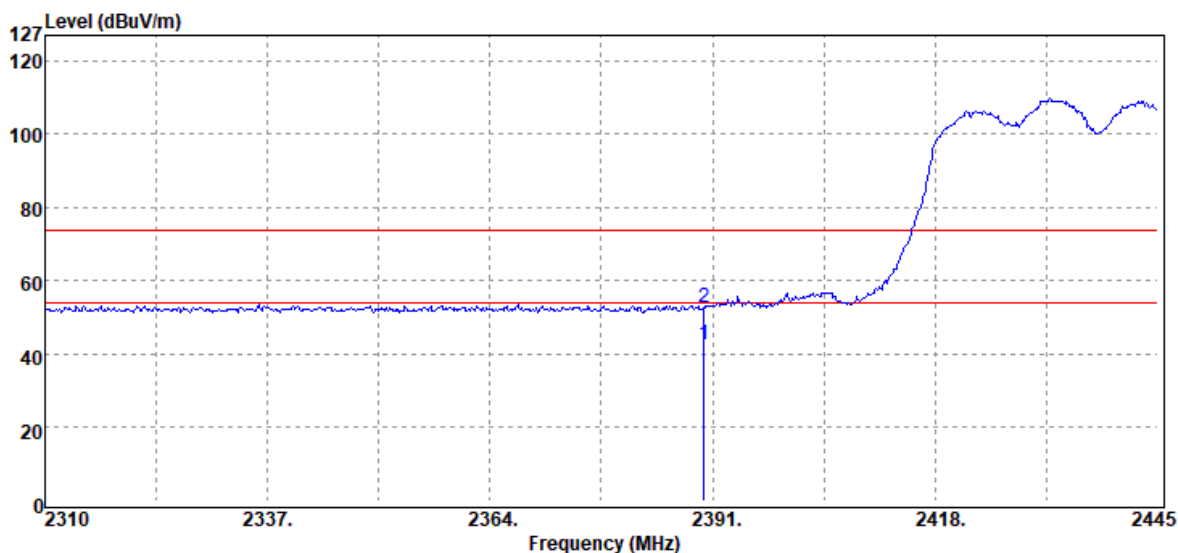
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2437 MHz
 Test Mode :Bandedge CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	41.79	0.76	42.55	54.00	-11.45
2390.00	Peak	52.17	0.76	52.93	74.00	-21.07

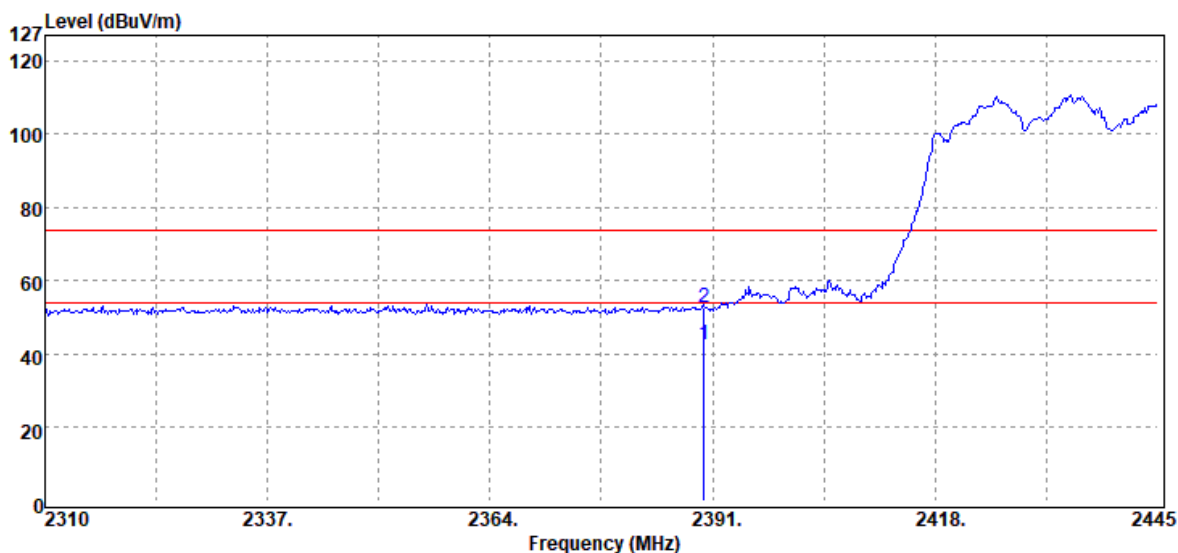
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2437 MHz
 Test Mode :Bandedge CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	41.93	0.76	42.69	54.00	-11.31
2390.00	Peak	52.03	0.76	52.79	74.00	-21.21

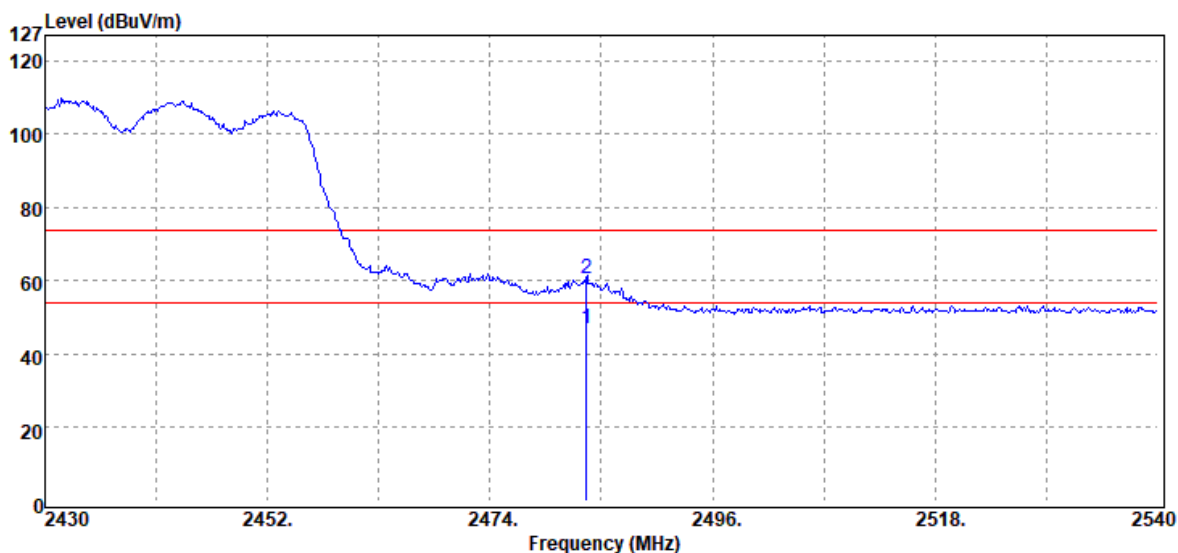
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2437 MHz
 Test Mode :Bandedge CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	46.35	0.54	46.89	54.00	-7.11
2483.50	Peak	60.21	0.54	60.75	74.00	-13.25

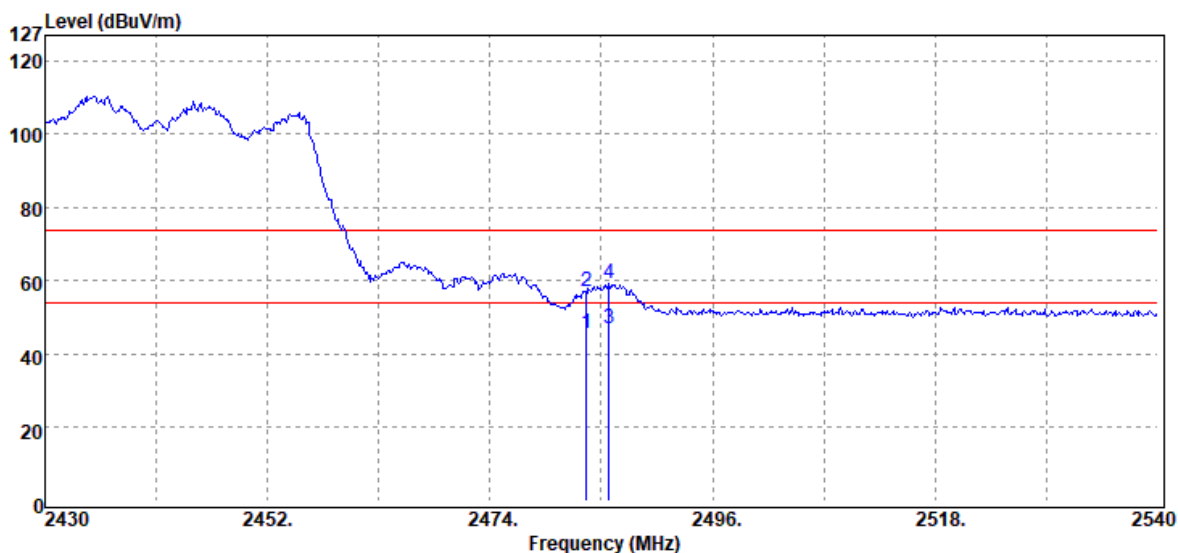
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2437 MHz
 Test Mode :Bandedge CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	45.25	0.54	45.79	54.00	-8.21
2483.50	Peak	56.42	0.54	56.96	74.00	-17.04
2485.77	Average	46.28	0.54	46.82	54.00	-7.18
2485.77	Peak	59.00	0.54	59.54	74.00	-14.46

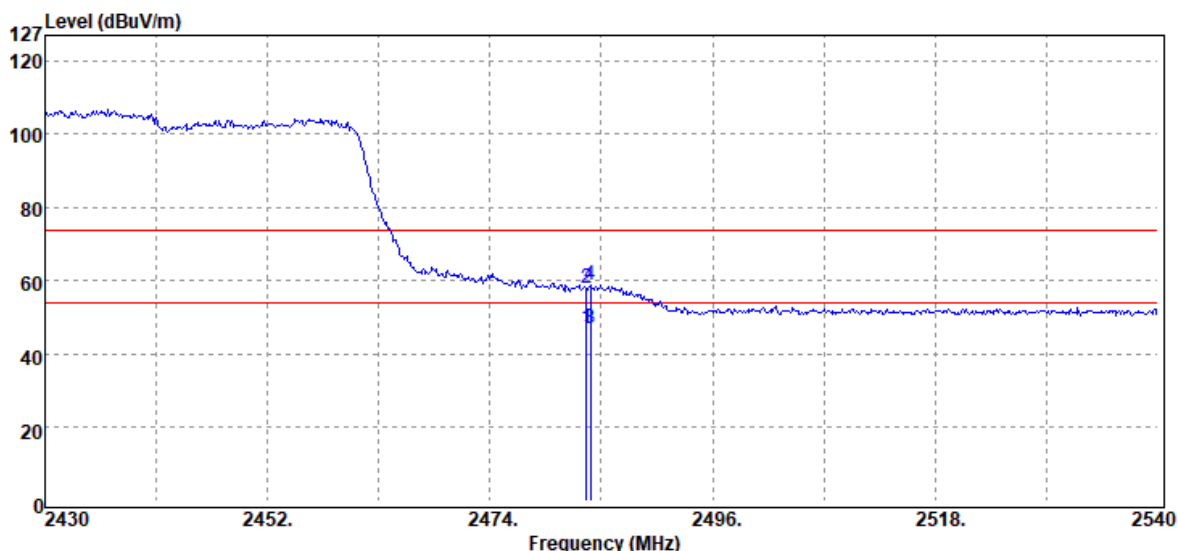
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2442 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	46.45	0.54	46.99	54.00	-7.01
2483.50	Peak	57.49	0.54	58.03	74.00	-15.97
2483.90	Average	46.47	0.54	47.01	54.00	-6.99
2483.90	Peak	58.45	0.54	58.99	74.00	-15.01

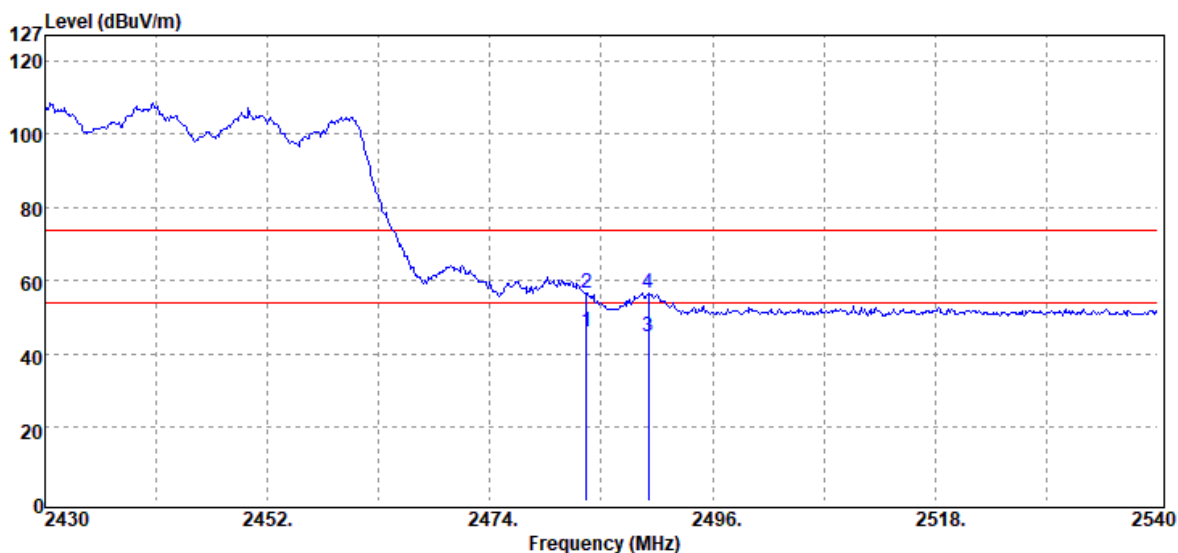
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2442 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	45.52	0.54	46.06	54.00	-7.94
2483.50	Peak	56.12	0.54	56.66	74.00	-17.34
2489.62	Average	44.16	0.53	44.69	54.00	-9.31
2489.62	Peak	56.29	0.53	56.82	74.00	-17.18

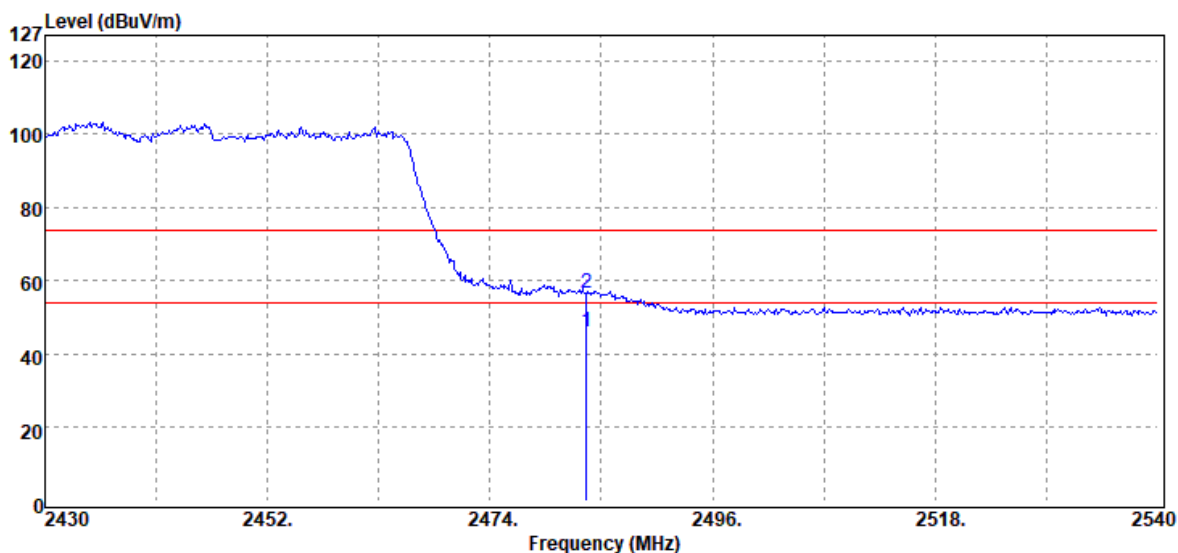
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2447 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	45.66	0.54	46.20	54.00	-7.80
2483.50	Peak	56.14	0.54	56.68	74.00	-17.32

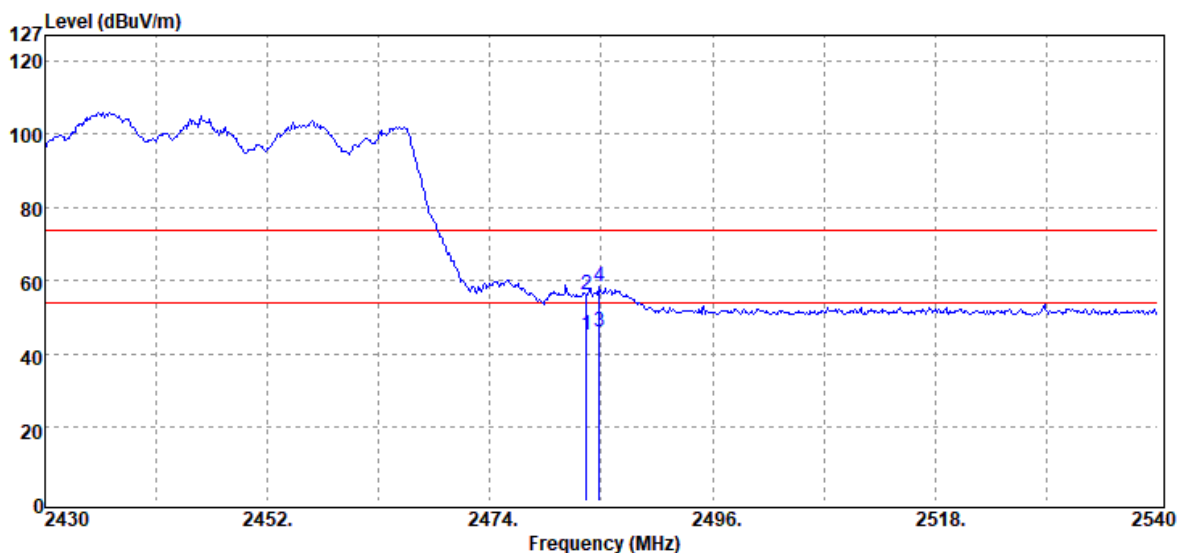
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2447 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	44.93	0.54	45.47	54.00	-8.53
2483.50	Peak	55.84	0.54	56.38	74.00	-17.62
2484.78	Average	45.68	0.54	46.22	54.00	-7.78
2484.78	Peak	57.81	0.54	58.35	74.00	-15.65

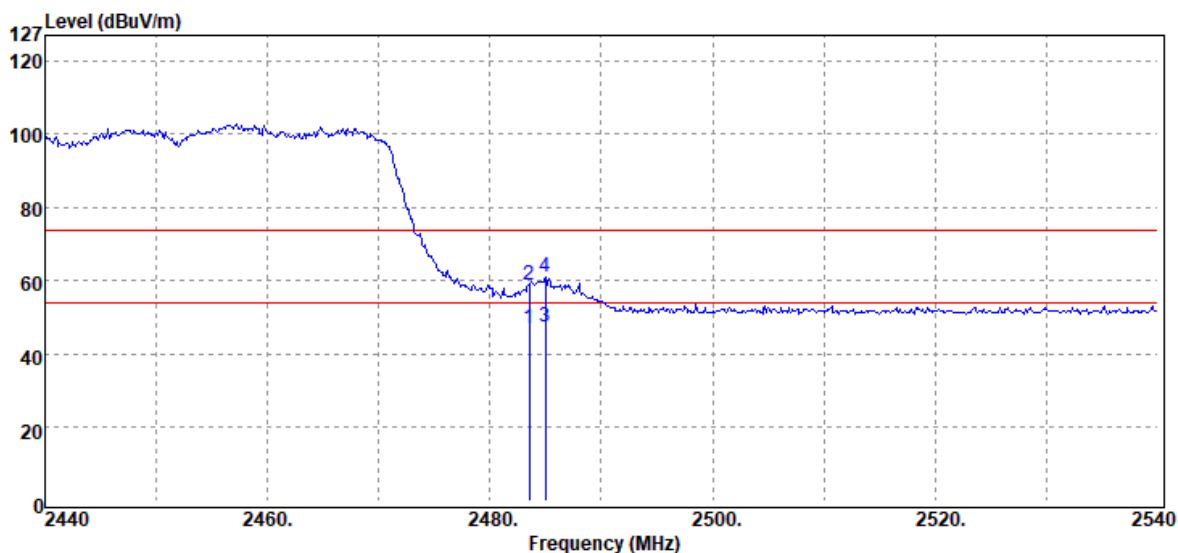
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	46.32	0.54	46.86	54.00	-7.14
2483.50	Peak	58.41	0.54	58.95	74.00	-15.05
2485.00	Average	46.94	0.54	47.48	54.00	-6.52
2485.00	Peak	60.49	0.54	61.03	74.00	-12.97

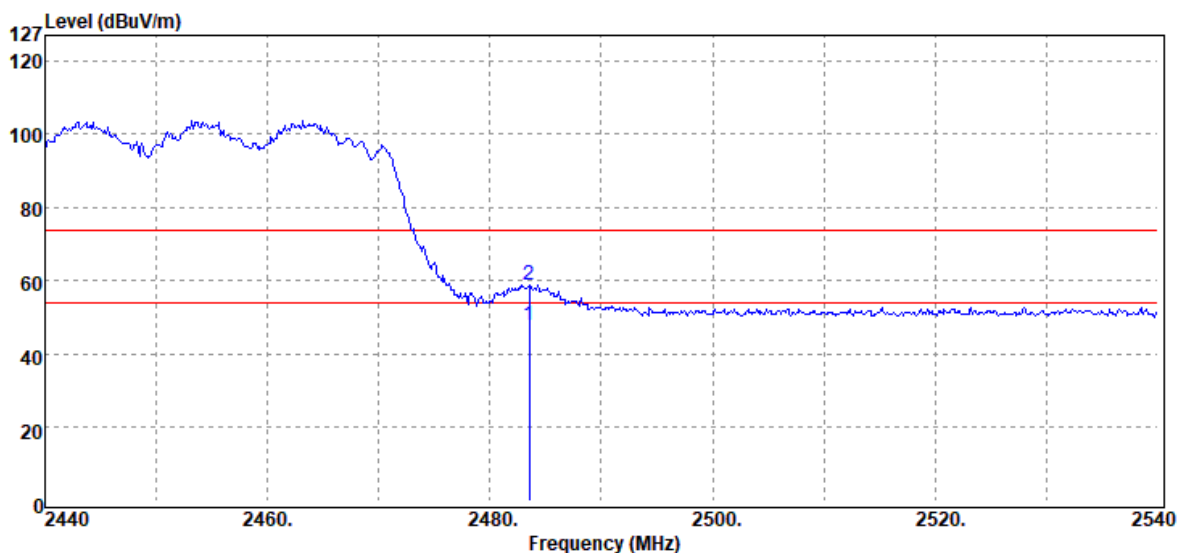
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	47.42	0.54	47.96	54.00	-6.04
2483.50	Peak	58.42	0.54	58.96	74.00	-15.04

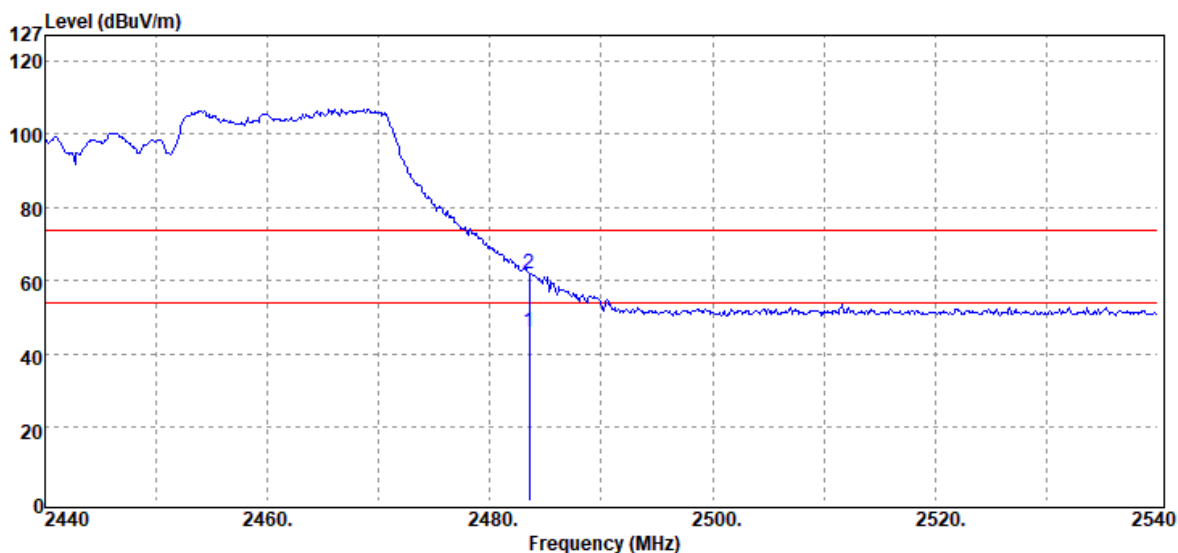
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU 242/62
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	45.48	0.54	46.02	54.00	-7.98
2483.50	Peak	61.45	0.54	61.99	74.00	-12.01

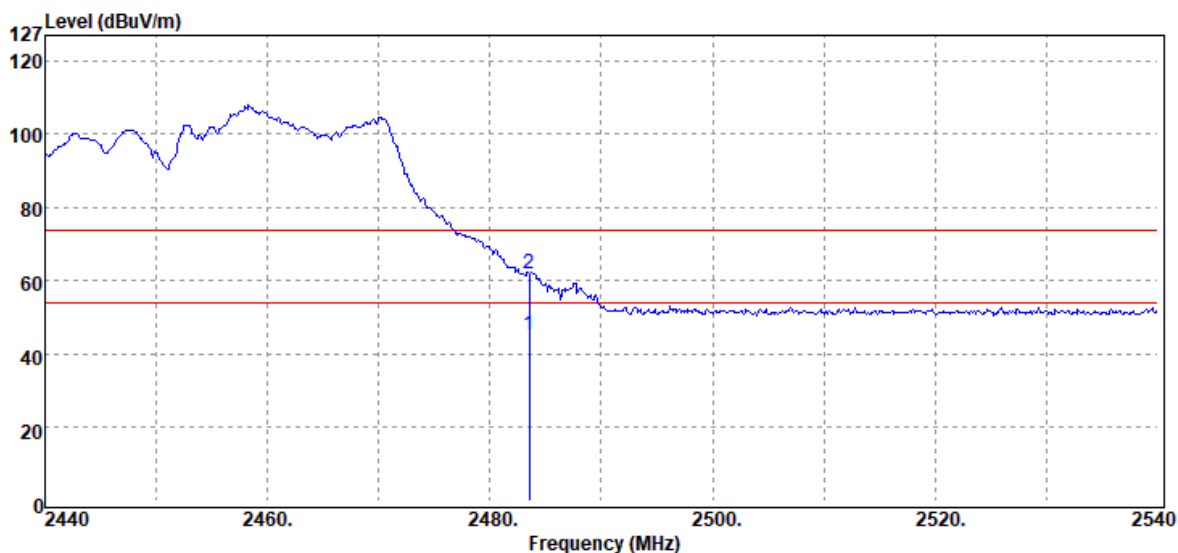
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU 242/62
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	44.72	0.54	45.26	54.00	-8.74
2483.50	Peak	61.47	0.54	62.01	74.00	-11.99

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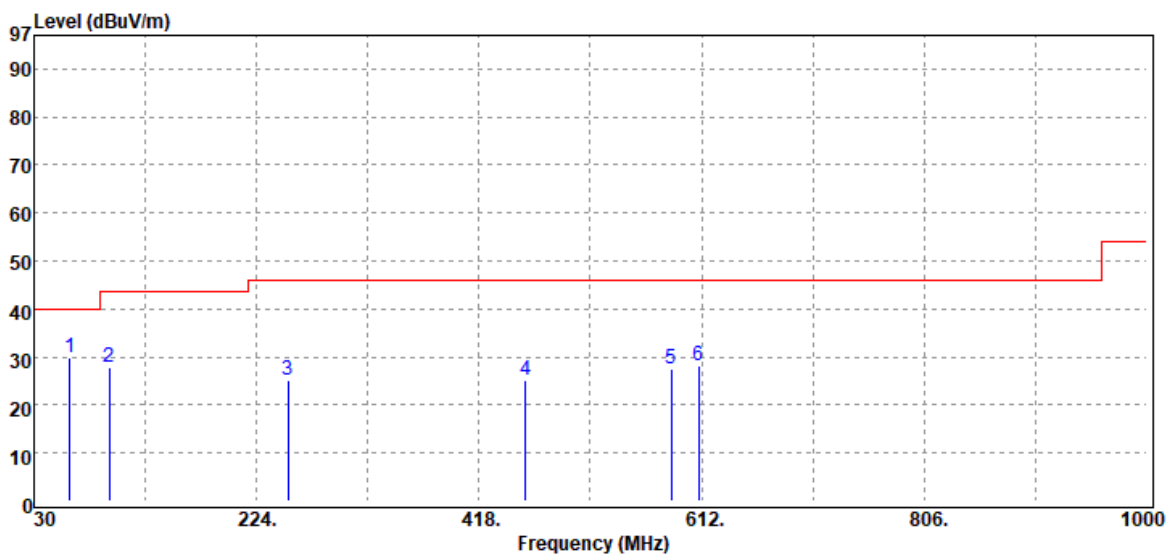
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11.7.2 Below 1GHz Worst-Case Emission:

CDD

Report Number :ER-2021-20091
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-05
 Temp./Humi. :21.8/63
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
61.04	Peak	39.06	-9.19	29.87	40.00	-10.13
95.96	Peak	41.98	-13.99	27.99	43.50	-15.51
251.16	Peak	33.99	-8.72	25.27	46.00	-20.73
458.74	Peak	28.26	-3.05	25.21	46.00	-20.79
585.81	Peak	28.31	-0.67	27.64	46.00	-18.36
609.09	Peak	28.01	0.04	28.05	46.00	-17.95

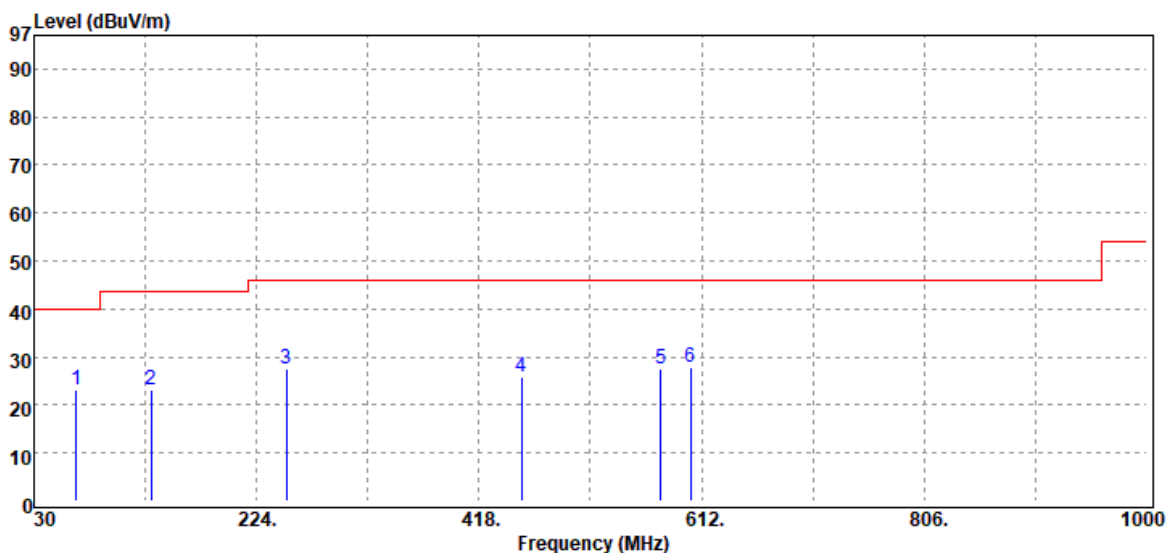
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 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-05
 Temp./Humi. :21.8/63
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
66.86	Peak	33.03	-9.98	23.05	40.00	-16.95
131.85	Peak	32.08	-8.81	23.27	43.50	-20.23
250.19	Peak	36.22	-8.79	27.43	46.00	-18.57
454.86	Peak	28.95	-3.14	25.81	46.00	-20.19
576.11	Peak	28.53	-1.04	27.49	46.00	-18.51
602.30	Peak	28.18	-0.29	27.89	46.00	-18.11

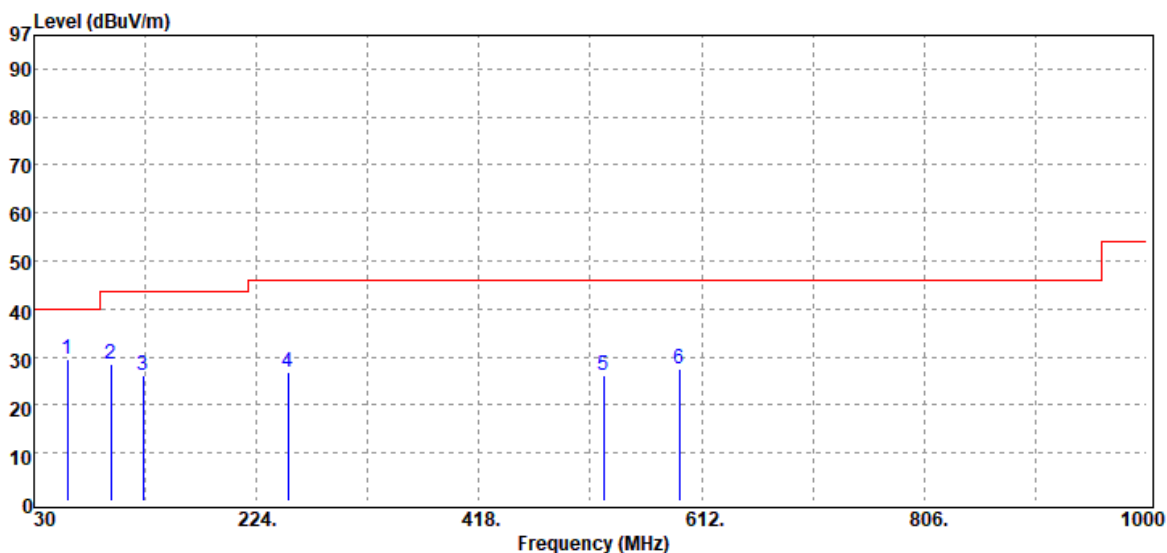
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-05
 Temp./Humi. :21.8/63
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
59.10	Peak	38.80	-9.27	29.53	40.00	-10.47
96.93	Peak	42.21	-13.61	28.60	43.50	-14.90
125.06	Peak	35.55	-9.47	26.08	43.50	-17.42
251.16	Peak	35.66	-8.72	26.94	46.00	-19.06
526.64	Peak	29.01	-2.71	26.30	46.00	-19.70
592.60	Peak	28.21	-0.52	27.69	46.00	-18.31

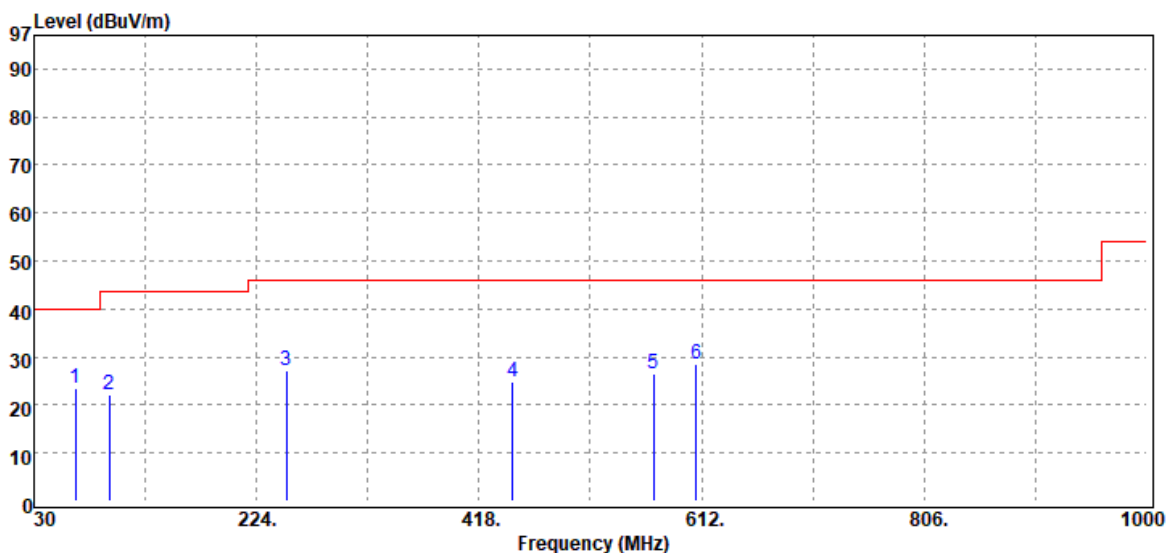
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-05
 Temp./Humi. :21.8/63
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
65.89	Peak	33.37	-9.96	23.41	40.00	-16.59
95.96	Peak	36.29	-13.99	22.30	43.50	-21.20
250.19	Peak	35.84	-8.79	27.05	46.00	-18.95
447.10	Peak	28.31	-3.37	24.94	46.00	-21.06
570.29	Peak	27.99	-1.43	26.56	46.00	-19.44
607.15	Peak	28.50	-0.06	28.44	46.00	-17.56

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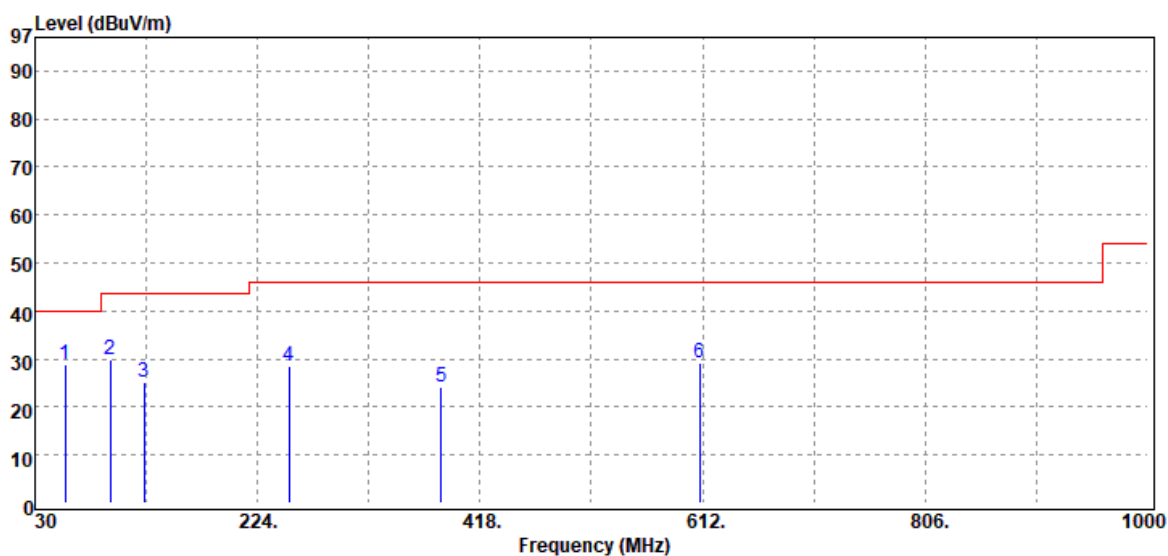
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Beamforming

Report Number :ER-2021-20091
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
56.19	Peak	37.82	-9.01	28.81	40.00	-11.19
95.96	Peak	43.98	-13.99	29.99	43.50	-13.51
125.06	Peak	34.76	-9.47	25.29	43.50	-18.21
251.16	Peak	37.39	-8.72	28.67	46.00	-17.33
384.05	Peak	29.38	-5.17	24.21	46.00	-21.79
609.09	Peak	29.05	0.04	29.09	46.00	-16.91

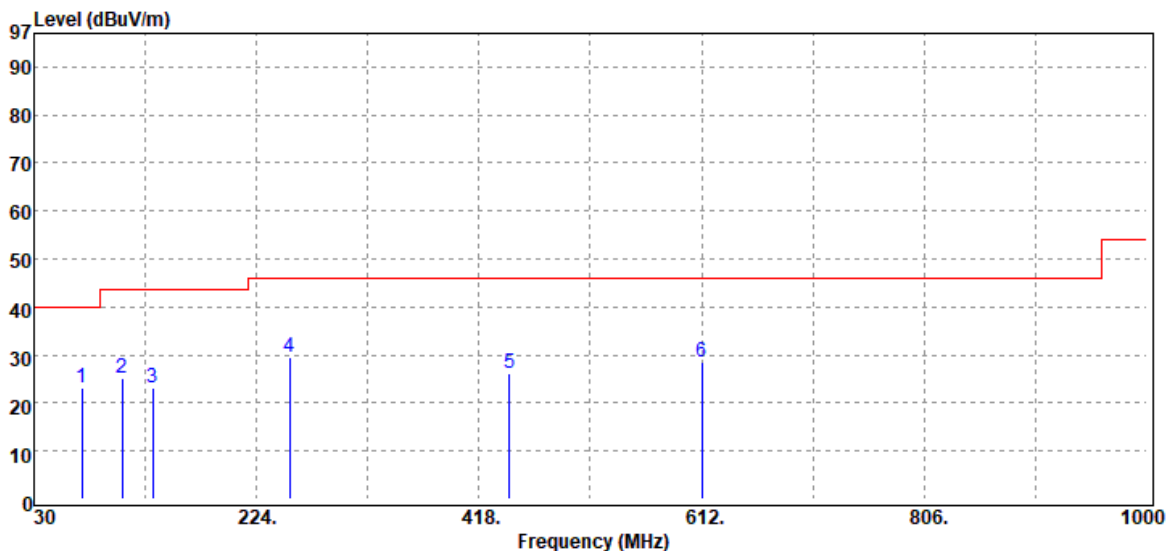
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Report Number :ER-2021-20091
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
71.71	Peak	33.78	-10.50	23.28	40.00	-16.72
106.63	Peak	37.15	-11.87	25.28	43.50	-18.22
133.79	Peak	32.02	-8.80	23.22	43.50	-20.28
253.10	Peak	38.29	-8.59	29.70	46.00	-16.30
444.19	Peak	29.67	-3.44	26.23	46.00	-19.77
612.00	Peak	28.67	0.02	28.69	46.00	-17.31

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