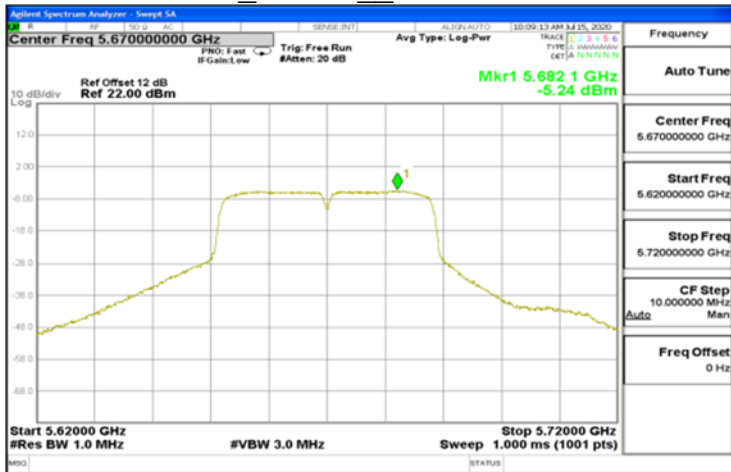
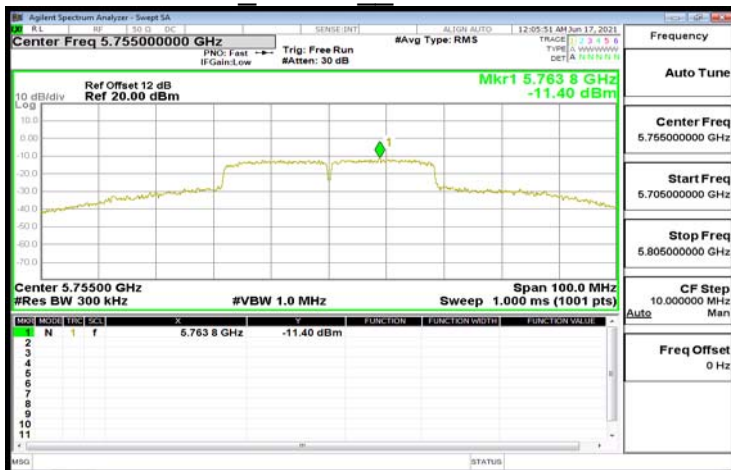


802.11n_40MHz_5670MHz-5670



802.11n_40MHz_5755MHz-5755



802.11n_40MHz_5795MHz-5795



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11 UNDESIRABLE RADIATED EMISSION MEASUREMENT

11.1 Standard Applicable

11.1.1 Band Edge

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

1. For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
2. For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

APPLICABLE TO	EIRP LIMIT	FIELD STRENGTH AT 3m
15.407(b)(1) RSS-247 §6.2.1.2	PK: -27 (dBm/MHz)	PK: 68.3 (dBμV/m)
15.407(b)(2) RSS-247 §6.2.2.2		
15.407(b)(3) RSS-247 §6.2.3.2		
15.407(b)(4)(i) RSS-247 §6.2.4.2	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(dBμV/m) *1 PK:105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK:122.2 (dBμV/m) *4
<p>*1 beyond 75 MHz or more above of the bandedge.</p> <p>*2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.</p> <p>*3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.</p> <p>*4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</p>		

$EIRP = (E \cdot d)^2 / 30$, where E is the field in V/m, d is the measurement distance (3m), $EIRP$ is the equivalent isotropically radiated power in Watts.

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11.1.2 Spurious Emission

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

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 (dB μ V/m) = 20 log Emission level (μ V/m)

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11.2 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	Schwarzbeck	BBHA9170	184	12/25/2019	12/24/2020
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/20/2019	08/19/2020
Bi-log Antenna	SCHWAZBECK	VULB9168	378	01/03/2020	01/02/2021
Loop Antenna	ETS.LINDGREN	6502	148045	10/15/2019	10/14/2020
3m Site NSA	SGS	966 chamber	N/A	01/02/2020	01/01/2021
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	EMC Instruments	EMC184045B	980135	01/02/2020	01/01/2021
Pre-Amplifier	HP	8447D	2944A09469	01/02/2020	01/01/2021
Attenuator	Mini-Circuit	BW-S10W2+	4	01/02/2020	01/01/2021
Filter 5150-5350 MHz	Micro-Tronics	BRM50703	1	01/02/2020	01/01/2021
Filter 5470-5725 MHz	Micro-Tronics	BRM50704	1	01/02/2020	01/01/2021
Filter 5725-5875 MHz	Micro-Tronics	BRM50705	1	01/02/2020	01/01/2021
High Pass Filter	WI	WHKX7.0/18G-8SS	45	01/02/2020	01/01/2021
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	01/02/2020	01/01/2021
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	01/02/2020	01/01/2021
Coaxial Cable	Huber Suhner	EMC 104-SM-SM-2000	160123	01/02/2020	01/01/2021
Test Software	audix	e3	Ver. 6.11-20180413	N.C.R	N.C.R

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For U-NII 3 measurement

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUM-BER	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.LIND-GREN	6502	148045	10/19/2020	10/18/2021
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/27/2021	04/26/2022
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	10/27/2020	10/26/2021
Pre-Amplifier	HP	8447D	2944A07676	12/16/2020	12/15/2021
Attenuator	Mini-Circuit	BW-S10W2+	4	12/16/2020	12/15/2021
Filter 5725-5875 MHz	Micro-Tronics	BRM50705	1	12/16/2020	12/15/2021
High Pass Filter	WI	WHKX7.0/18G-8SS	45	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.

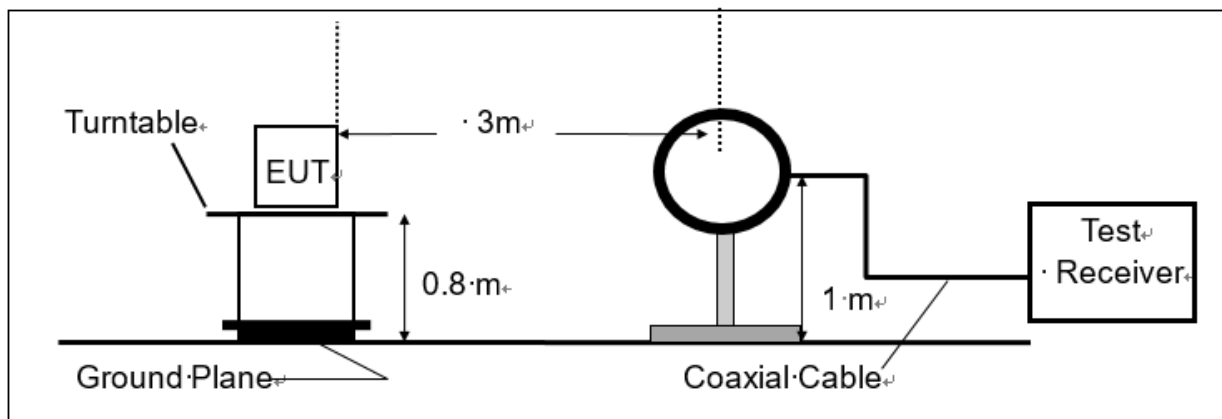
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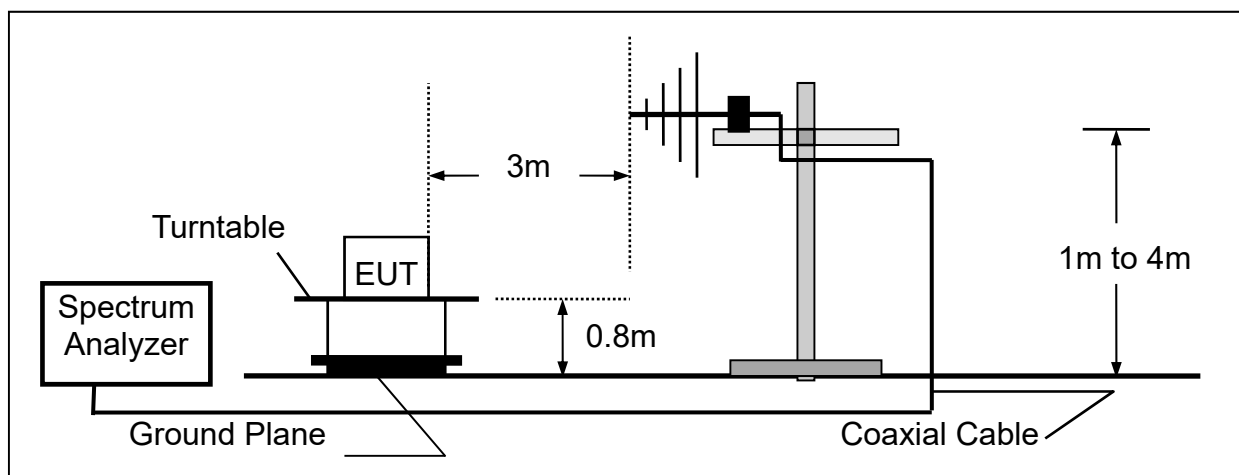
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11.3 Test SET-UP

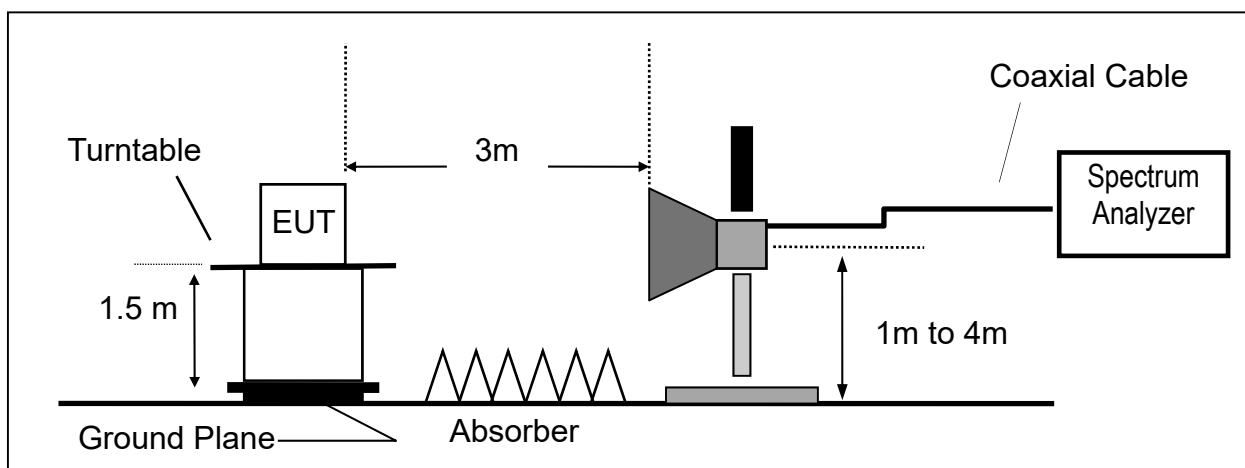
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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 EUT was placed on a turn table which is 0.8m above ground plane.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
4. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
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. At frequency above 1 GHz, Set the spectrum analyzer:
 - A. RBW=1 MHz, VBW=3 MHz for **Peak** Detector.
 - B. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW $\geq 1/T$ (Duty cycle < 98%) for **Average** Detector.
8. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
9. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
10. Repeat above procedures until all frequency 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 $20 \cdot \log(uV/m)$

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) was not reported.

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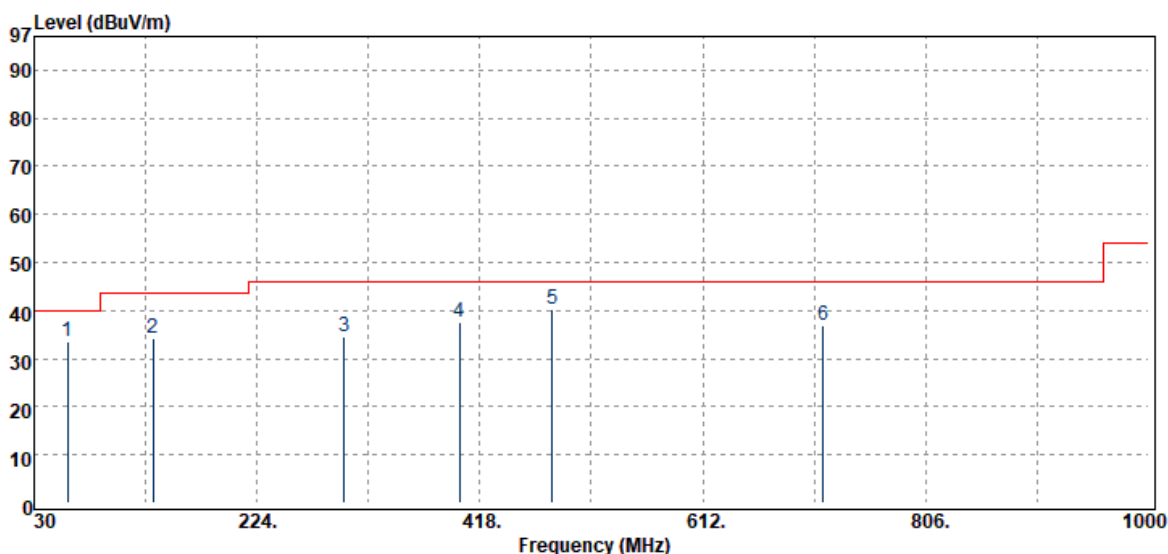
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11.7 Radiated Spurious Emission Measurement Result

11.7.1 Below 1GHz Worst-Case Data:

Report Number	:ER-2020-60011	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2020-07-27
Test Frequency	:5220 MHz	Temp./Humi.	:25.8/59
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	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
59.10	QP	42.21	-8.70	33.51	40.00	-6.49
133.79	Peak	42.36	-8.13	34.23	43.50	-9.27
299.66	Peak	40.41	-5.99	34.42	46.00	-11.58
400.54	Peak	41.81	-4.38	37.43	46.00	-8.57
481.05	QP	42.71	-2.48	40.23	46.00	-5.77
716.76	Peak	35.37	1.53	36.90	46.00	-9.10

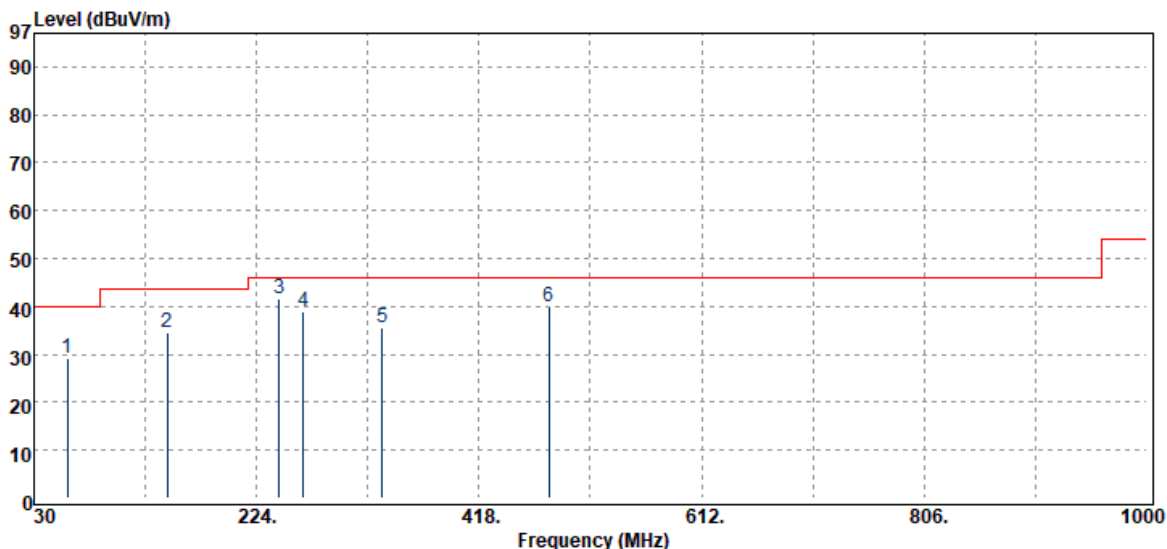
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Report Number :ER-2020-60011
 Operation Mode :802.11a
 Test Frequency :5220 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-27
 Temp./Humi. :25.8/59
 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
59.10	Peak	37.84	-8.70	29.14	40.00	-10.86
146.40	Peak	41.85	-7.44	34.41	43.50	-9.09
243.40	Peak	49.84	-8.08	41.76	46.00	-4.24
264.74	Peak	46.34	-7.31	39.03	46.00	-6.97
333.61	Peak	40.55	-5.07	35.48	46.00	-10.52
479.11	Peak	42.35	-2.44	39.91	46.00	-6.09

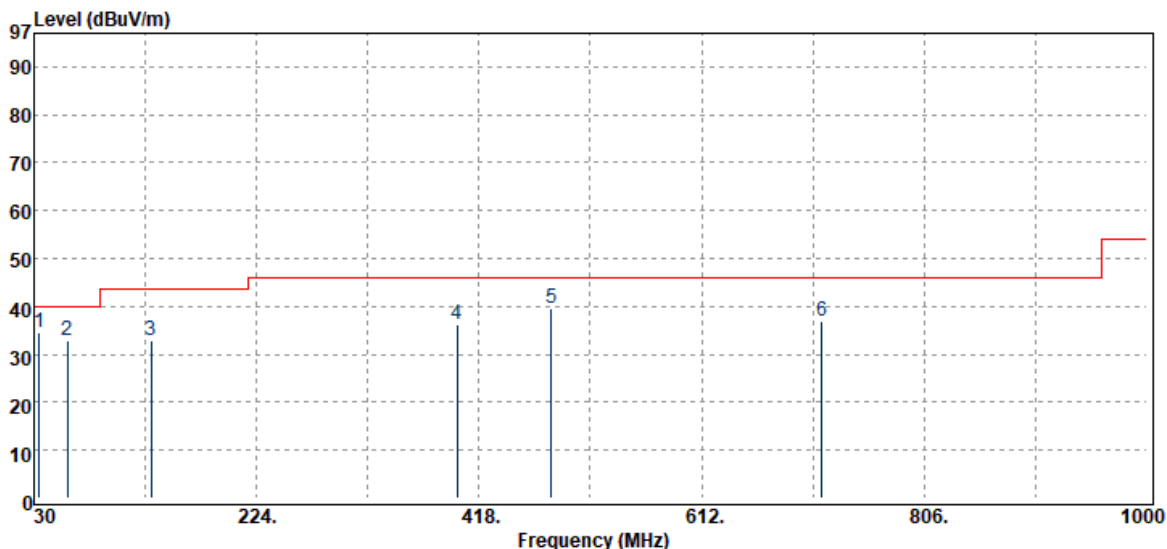
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Report Number :ER-2020-60011
 Operation Mode :802.11a
 Test Frequency :5300 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-27
 Temp./Humi. :25.8/59
 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
34.85	QP	43.58	-9.00	34.58	40.00	-5.42
59.10	QP	41.61	-8.70	32.91	40.00	-7.09
131.85	Peak	41.26	-8.42	32.84	43.50	-10.66
398.60	Peak	40.72	-4.36	36.36	46.00	-9.64
481.05	QP	42.04	-2.48	39.56	46.00	-6.44
716.76	Peak	35.42	1.53	36.95	46.00	-9.05

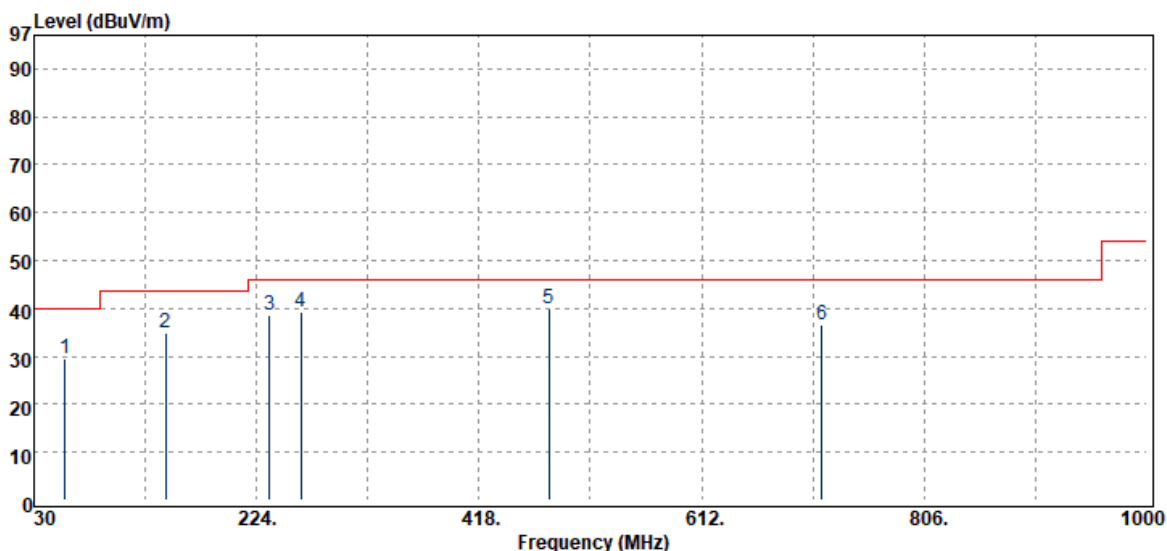
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Report Number :ER-2020-60011
 Operation Mode :802.11a
 Test Frequency :5300 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-27
 Temp./Humi. :25.8/59
 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
57.16	Peak	38.22	-8.53	29.69	40.00	-10.31
144.46	Peak	42.40	-7.50	34.90	43.50	-8.60
235.64	QP	46.97	-8.44	38.53	46.00	-7.47
262.80	Peak	46.82	-7.40	39.42	46.00	-6.58
479.11	Peak	42.35	-2.44	39.91	46.00	-6.09
716.76	Peak	35.19	1.53	36.72	46.00	-9.28

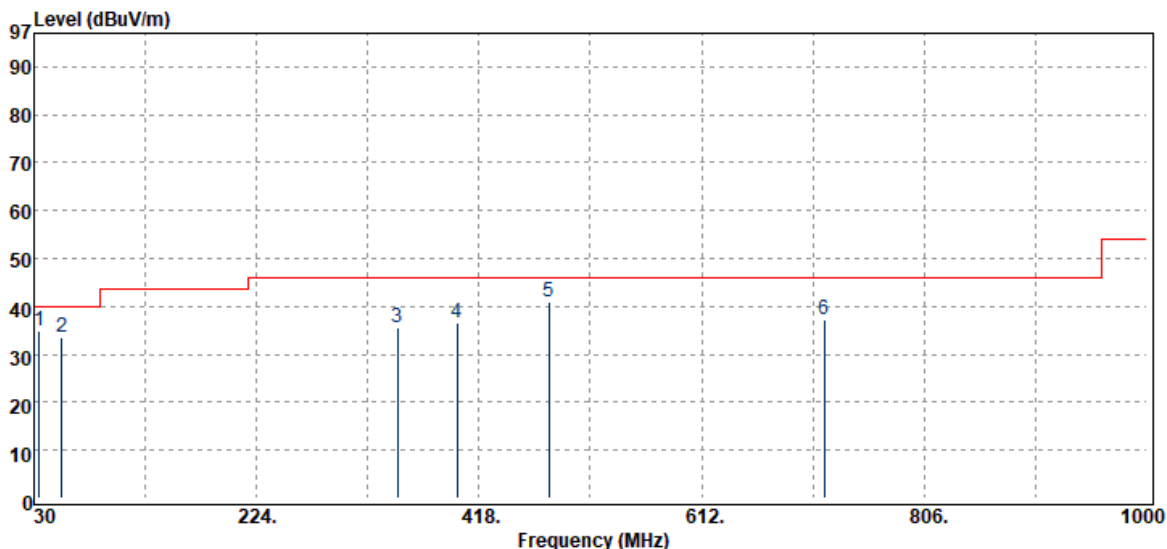
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Report Number :ER-2020-60011
 Operation Mode :802.11a
 Test Frequency :5580 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-27
 Temp./Humi. :25.8/59
 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
34.85	QP	43.91	-9.00	34.91	40.00	-5.09
54.25	QP	41.99	-8.27	33.72	40.00	-6.28
347.19	Peak	40.68	-4.97	35.71	46.00	-10.29
398.60	Peak	41.01	-4.36	36.65	46.00	-9.35
479.11	QP	43.27	-2.44	40.83	46.00	-5.17
718.70	Peak	35.66	1.46	37.12	46.00	-8.88

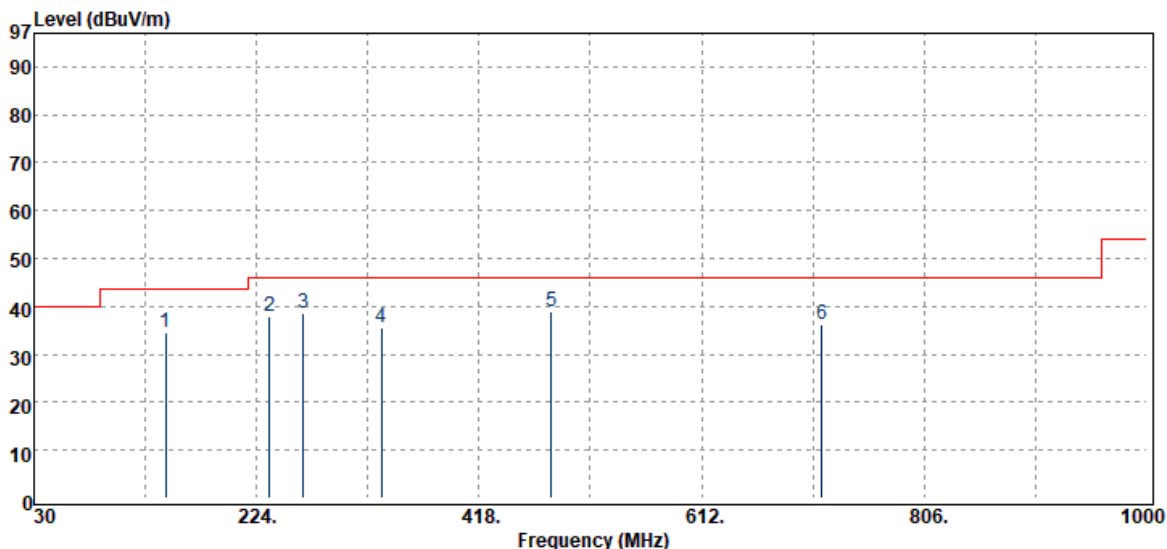
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Report Number :ER-2020-60011
 Operation Mode :802.11a
 Test Frequency :5580 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-27
 Temp./Humi. :25.8/59
 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
144.46	Peak	42.01	-7.50	34.51	43.50	-8.99
235.64	QP	46.41	-8.44	37.97	46.00	-8.03
264.74	Peak	46.01	-7.31	38.70	46.00	-7.30
332.64	Peak	40.72	-5.09	35.63	46.00	-10.37
481.05	Peak	41.57	-2.48	39.09	46.00	-6.91
716.76	Peak	34.70	1.53	36.23	46.00	-9.77

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For U-NII 3

Report Number :ER-2020-C0058

Test Site :SAC III Chamber

Operation Mode :802.11a

Test Date :2021-06-15

Test Frequency :5785 MHz

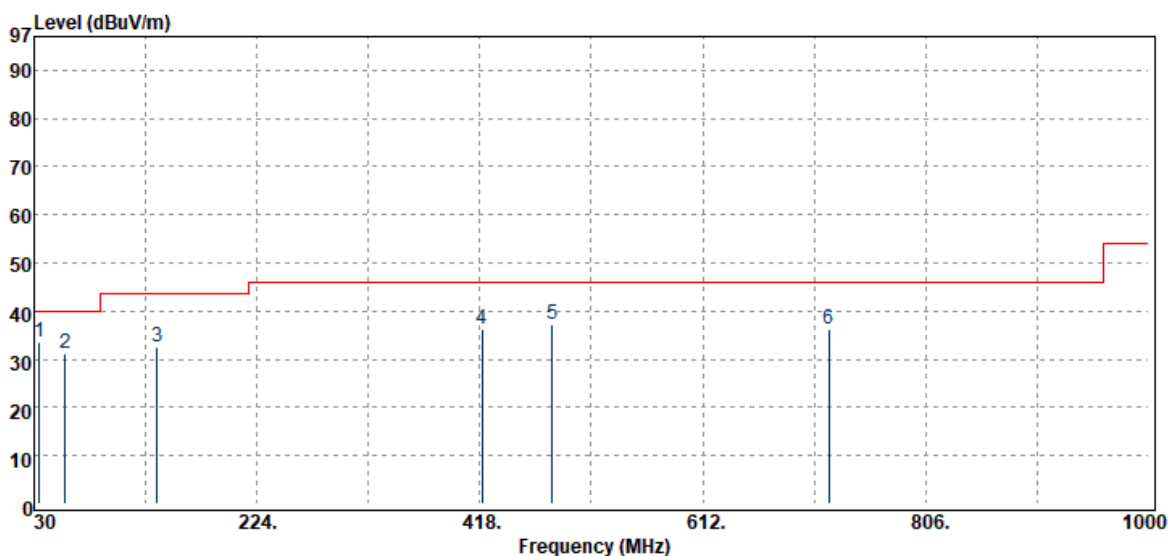
Temp./Humi. :26.1/56

Test Mode :Tx CH Mid

Antenna Pol. :VERTICAL

EUT Pol :H Plane

Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
34.85	QP	42.47	-9.00	33.47	40.00	-6.53
57.16	QP	39.80	-8.53	31.27	40.00	-8.73
136.70	Peak	41.05	-8.58	32.47	43.50	-11.03
419.94	Peak	40.90	-4.50	36.40	46.00	-9.60
481.05	QP	40.35	-3.19	37.16	46.00	-8.84
721.61	Peak	35.14	1.19	36.33	46.00	-9.67

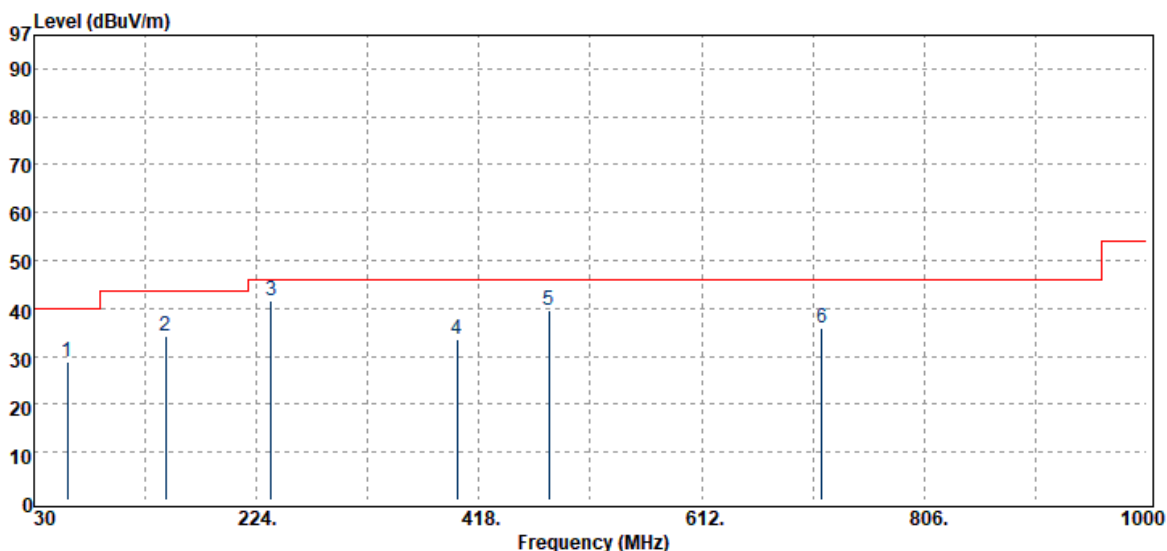
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Report Number :ER-2020-C0058
 Operation Mode :802.11a
 Test Frequency :5785 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-06-15
 Temp./Humi. :26.1/56
 Antenna Pol. :HORIZONTAL
 Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
59.10	Peak	38.17	-9.27	28.90	40.00	-11.10
144.46	Peak	42.45	-8.09	34.36	43.50	-9.14
236.61	Peak	50.88	-9.23	41.65	46.00	-4.35
398.60	Peak	38.54	-5.01	33.53	46.00	-12.47
479.11	Peak	42.65	-3.17	39.48	46.00	-6.52
716.76	Peak	34.75	1.19	35.94	46.00	-10.06

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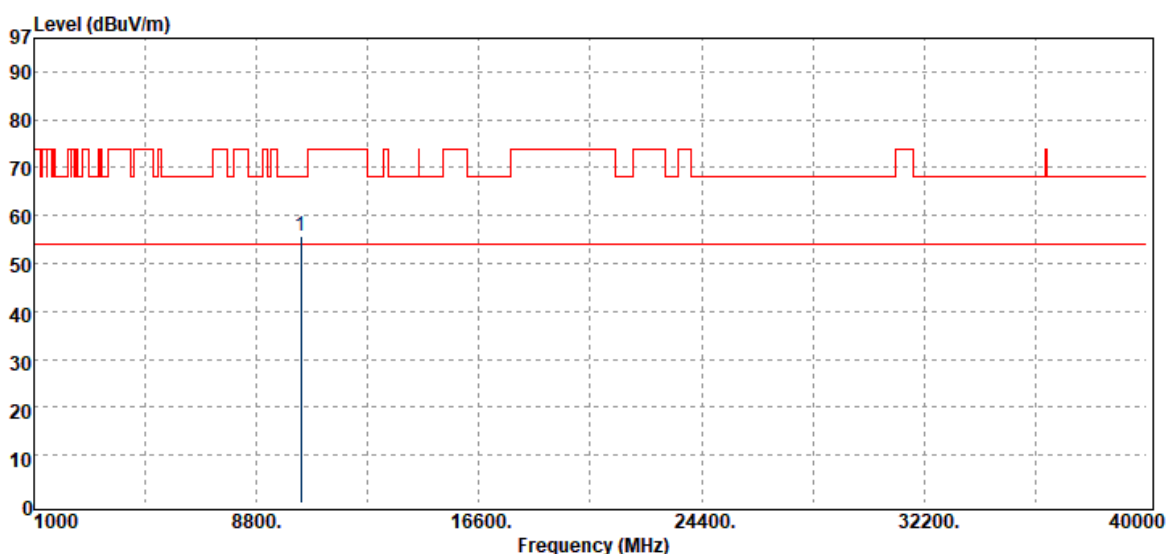
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11.7.2 Above 1GHz Worst-Case Data:

Report Number :ER-2020-60011
 Operation Mode :802.11a
 Test Frequency :5180 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-24
 Temp./Humi. :24.6/63
 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
10360.00	Peak	35.27	20.59	55.86	68.20	-12.34

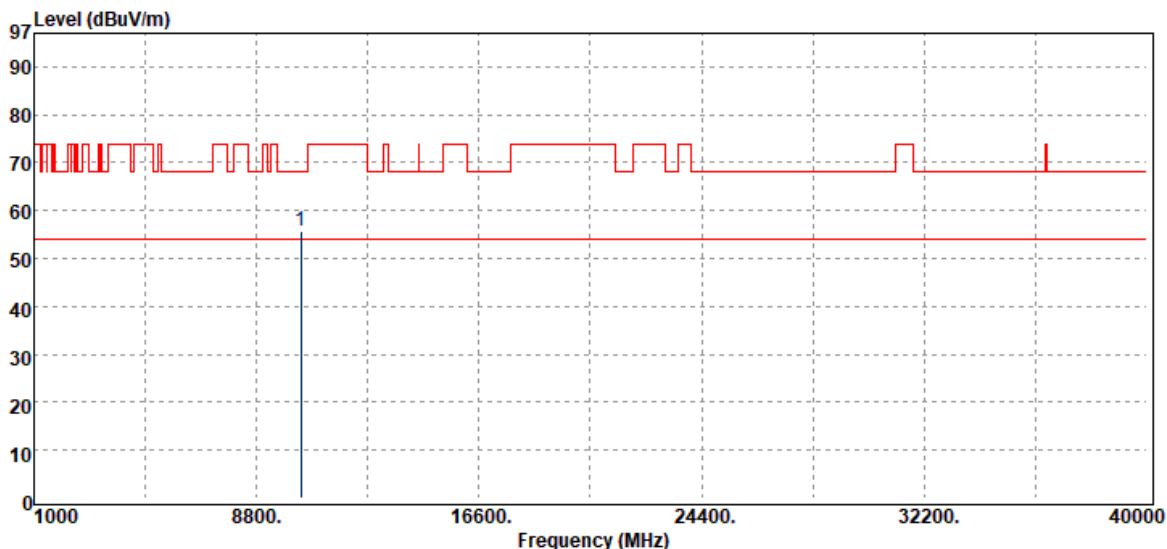
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Report Number :ER-2020-60011
 Operation Mode :802.11a
 Test Frequency :5180 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-24
 Temp./Humi. :24.6/63
 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
10360.00	Peak	34.98	20.59	55.57	68.20	-12.63

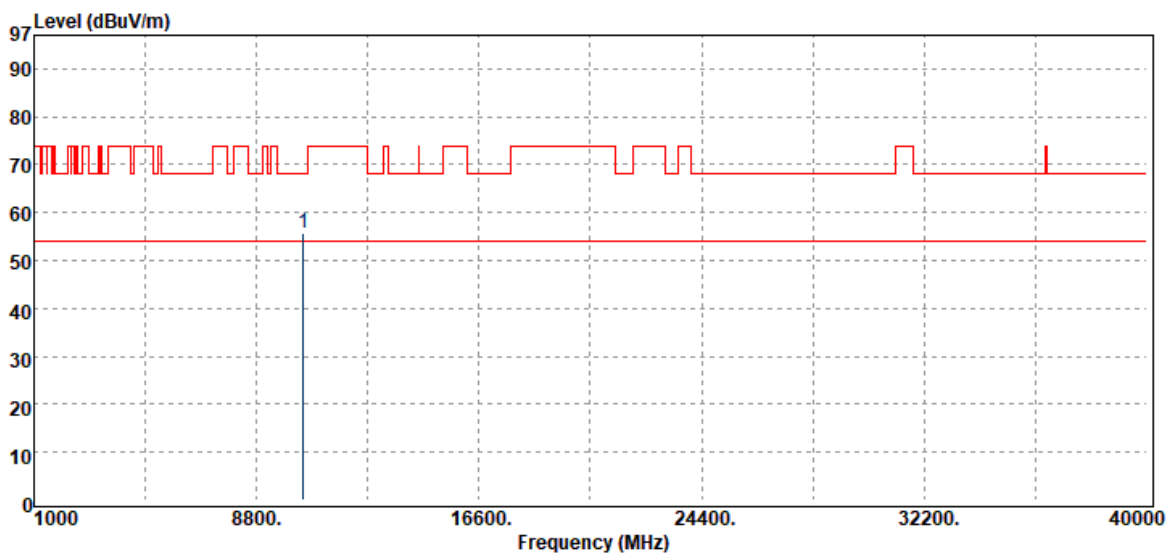
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Report Number :ER-2020-60011
 Operation Mode :802.11a
 Test Frequency :5220 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-24
 Temp./Humi. :24.6/63
 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
10440.00	Peak	34.79	21.08	55.87	68.20	-12.33

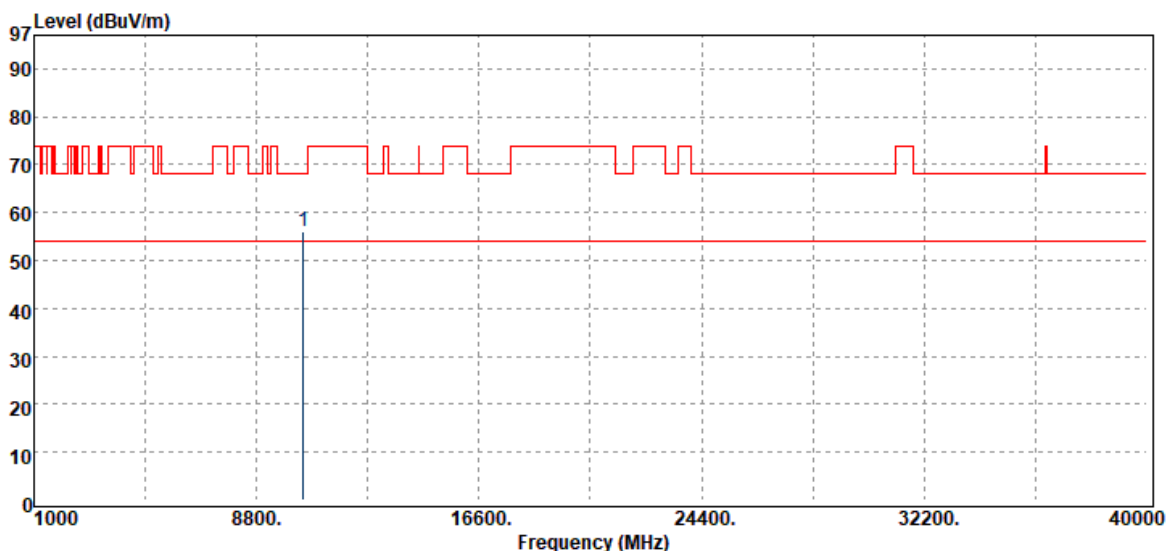
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Report Number :ER-2020-60011
 Operation Mode :802.11a
 Test Frequency :5220 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-24
 Temp./Humi. :24.6/63
 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
10440.00	Peak	34.86	21.08	55.94	68.20	-12.26

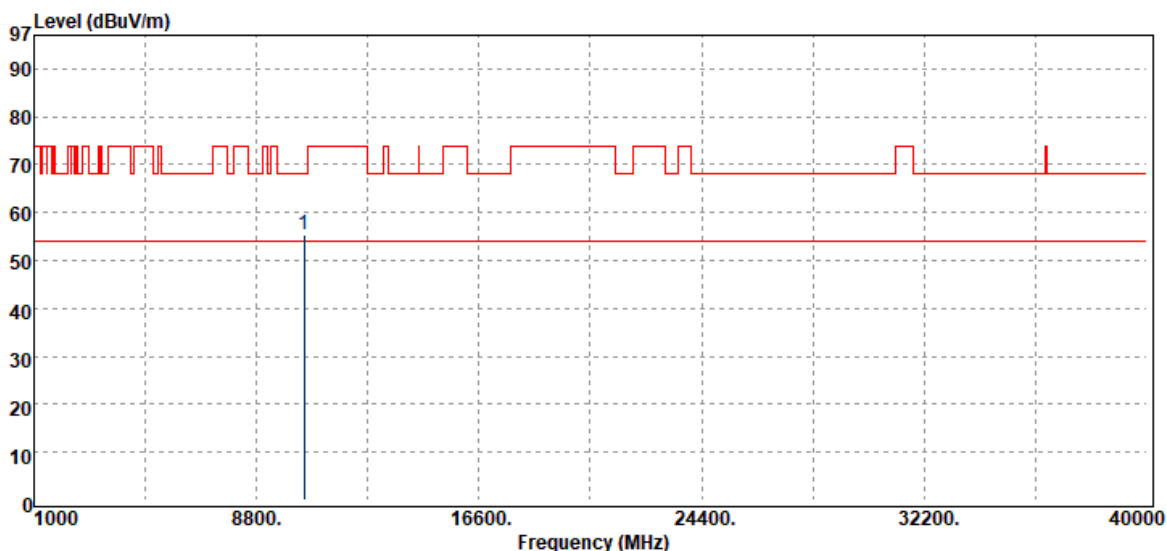
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Report Number :ER-2020-60011
 Operation Mode :802.11a
 Test Frequency :5240 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-24
 Temp./Humi. :24.6/63
 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
10480.00	Peak	34.18	21.21	55.39	68.20	-12.81

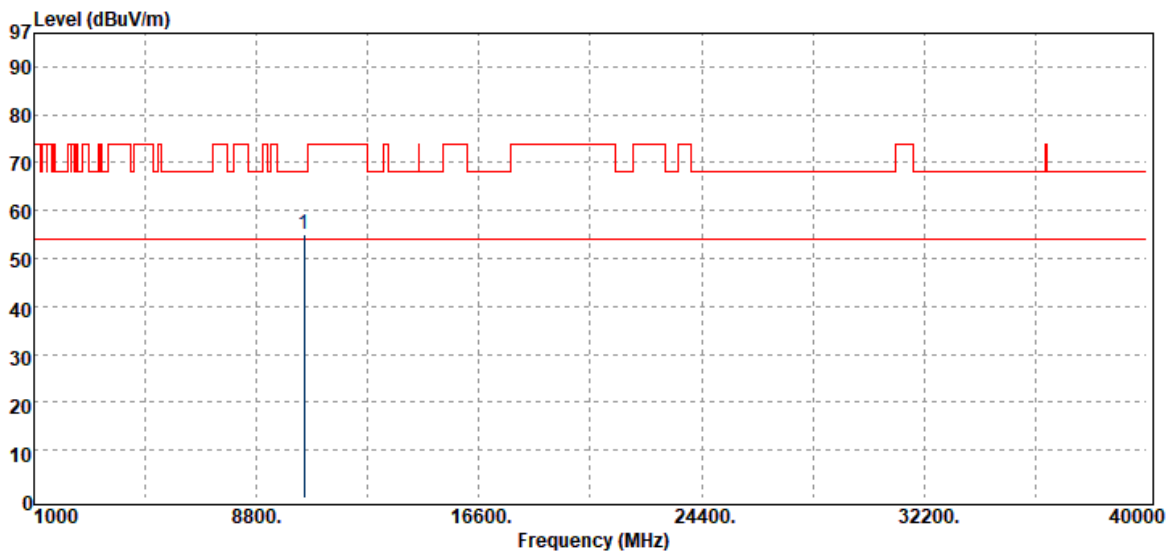
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Report Number :ER-2020-60011
 Operation Mode :802.11a
 Test Frequency :5240 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-24
 Temp./Humi. :24.6/63
 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
10480.00	Peak	33.83	21.21	55.04	68.20	-13.16

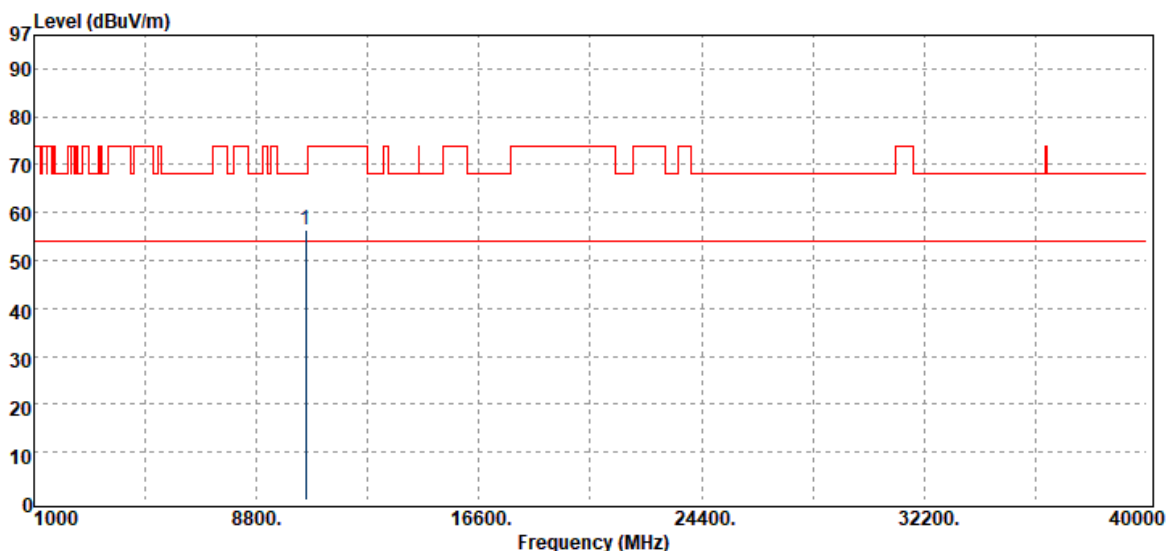
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Report Number :ER-2020-60011
 Operation Mode :802.11a
 Test Frequency :5260 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-24
 Temp./Humi. :24.6/63
 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
10520.00	Peak	35.14	21.27	56.41	68.20	-11.79

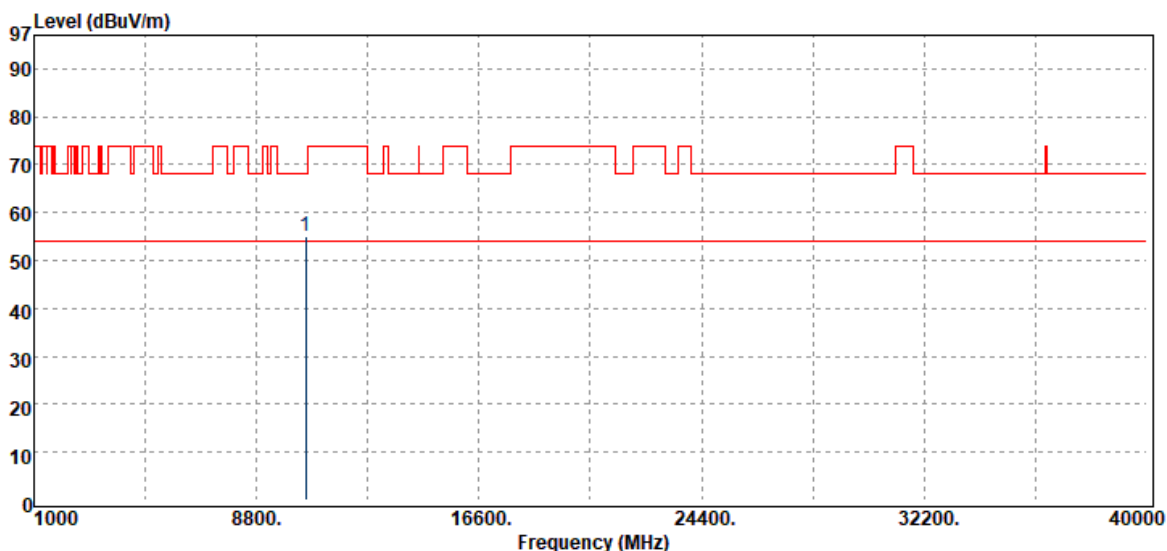
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Report Number :ER-2020-60011
 Operation Mode :802.11a
 Test Frequency :5260 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-24
 Temp./Humi. :24.6/63
 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
10520.00	Peak	33.83	21.27	55.10	68.20	-13.10

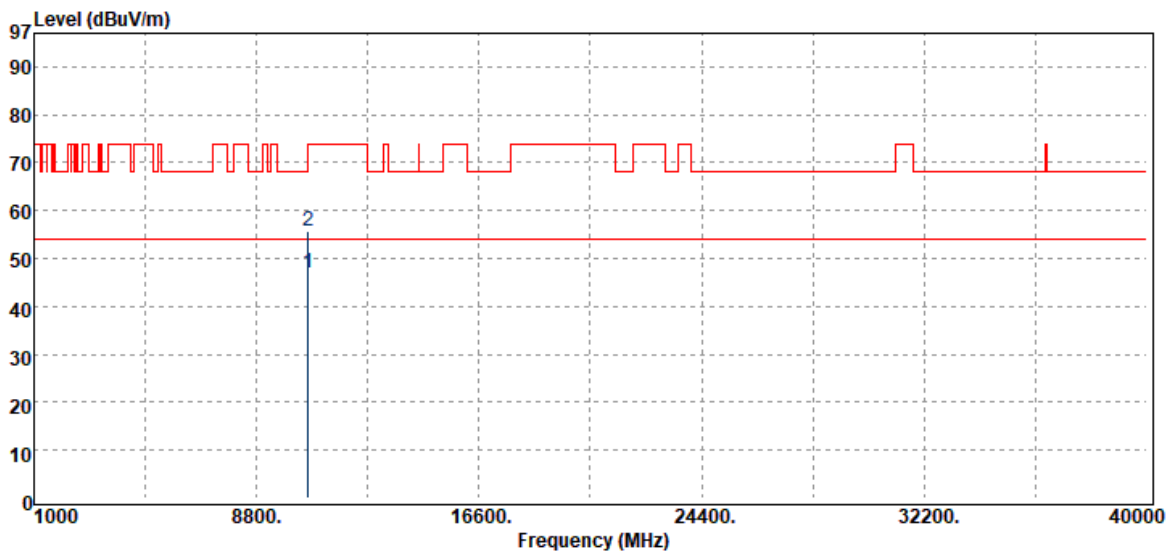
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Report Number :ER-2020-60011
 Operation Mode :802.11a
 Test Frequency :5300 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-24
 Temp./Humi. :24.6/63
 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
10600.00	Average	25.66	21.27	46.93	54.00	-7.07
10600.00	Peak	34.42	21.27	55.69	74.00	-18.31

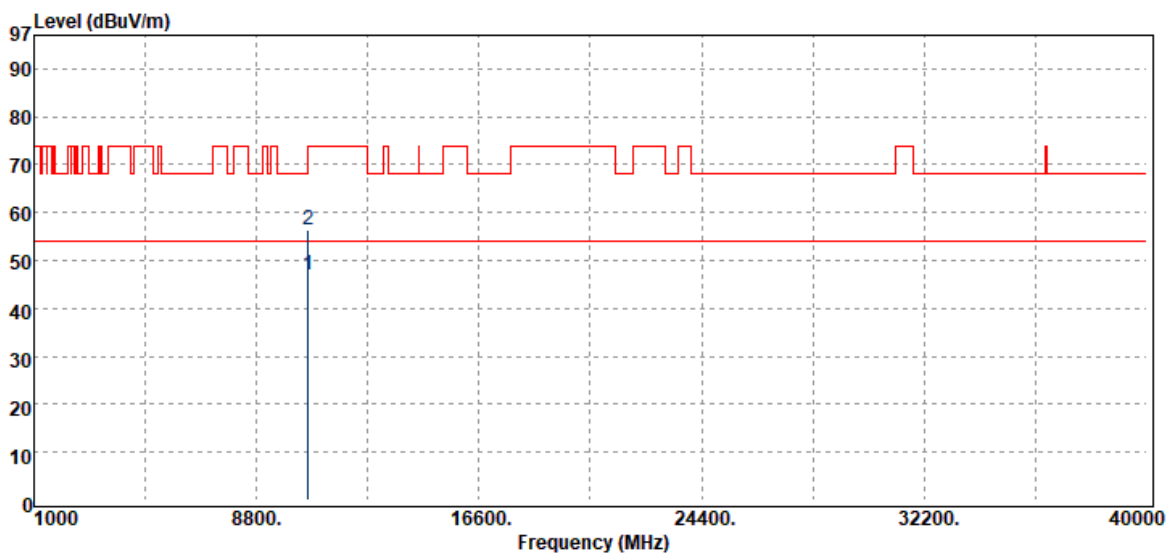
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Report Number :ER-2020-60011
 Operation Mode :802.11a
 Test Frequency :5300 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-24
 Temp./Humi. :24.6/63
 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
10600.00	Average	25.70	21.27	46.97	54.00	-7.03
10600.00	Peak	35.25	21.27	56.52	74.00	-17.48

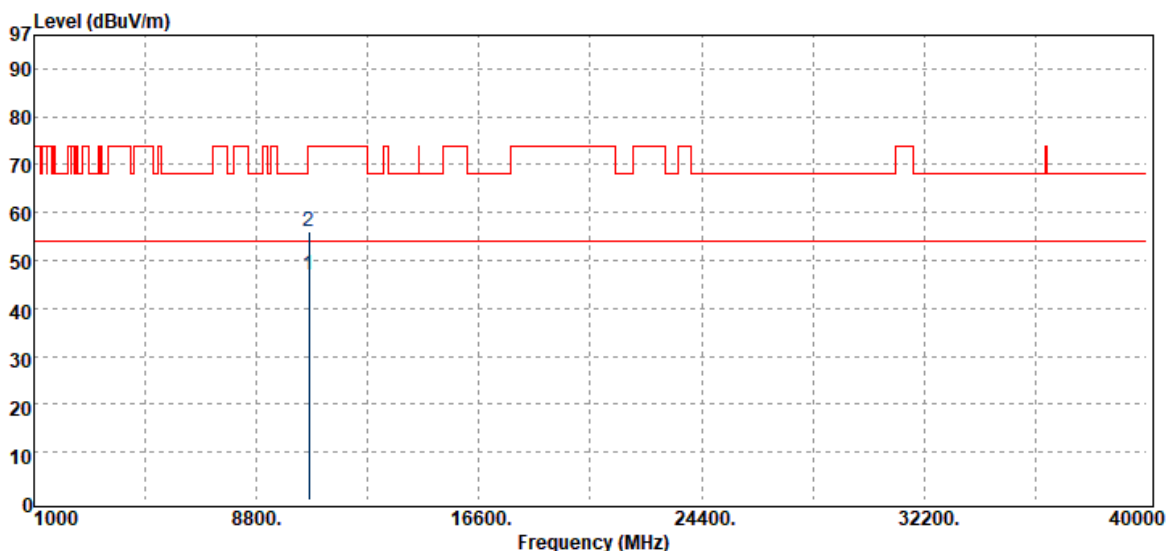
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Report Number :ER-2020-60011
 Operation Mode :802.11a
 Test Frequency :5320 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-24
 Temp./Humi. :24.6/63
 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
10640.00	Average	25.61	21.21	46.82	54.00	-7.18
10640.00	Peak	34.78	21.21	55.99	74.00	-18.01

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Report Number :ER-2020-60011
 Operation Mode :802.11a
 Test Frequency :5320 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-24
 Temp./Humi. :24.6/63
 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
10640.00	Average	26.05	21.21	47.26	54.00	-6.74
10640.00	Peak	33.86	21.21	55.07	74.00	-18.93

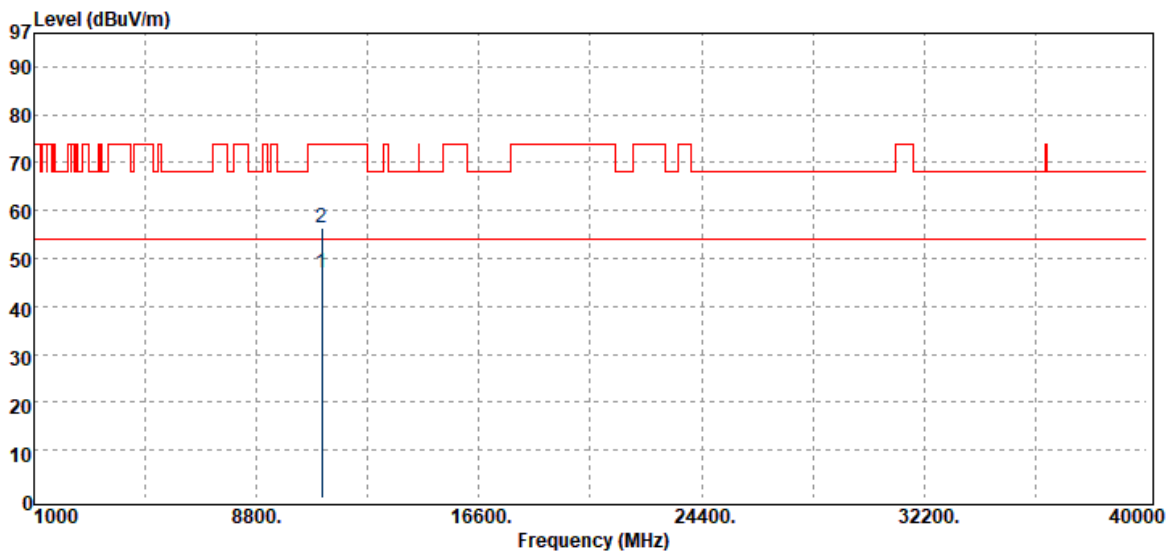
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Report Number :ER-2020-60011
 Operation Mode :802.11a
 Test Frequency :5500 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-24
 Temp./Humi. :24.6/63
 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
11100.00	Average	25.23	21.82	47.05	54.00	-6.95
11100.00	Peak	34.65	21.82	56.47	74.00	-17.53

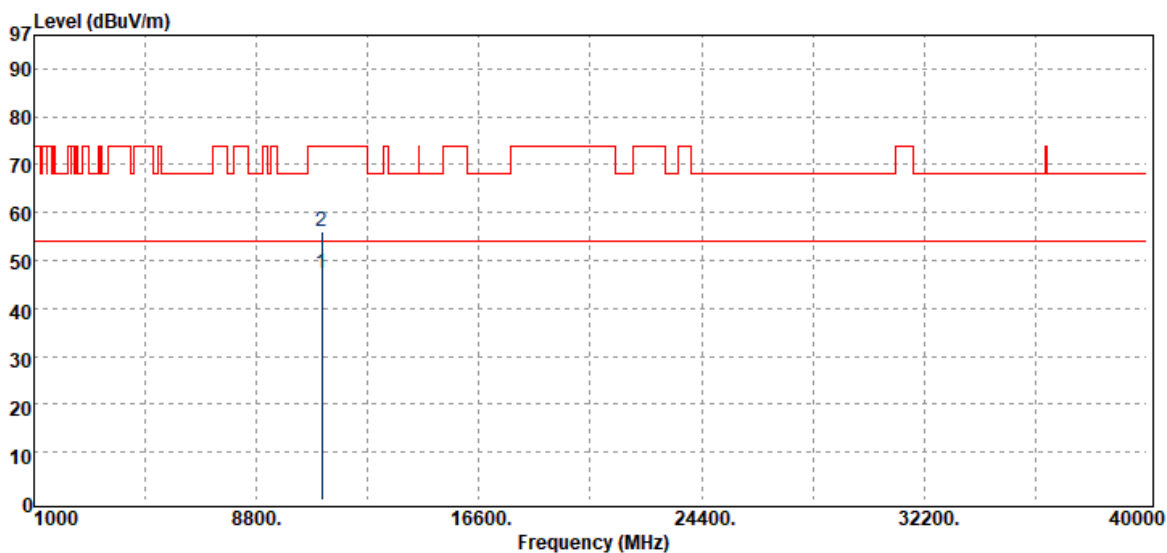
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Report Number :ER-2020-60011
 Operation Mode :802.11a
 Test Frequency :5500 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-24
 Temp./Humi. :24.6/63
 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
11100.00	Average	25.55	21.82	47.37	54.00	-6.63
11100.00	Peak	34.38	21.82	56.20	74.00	-17.80

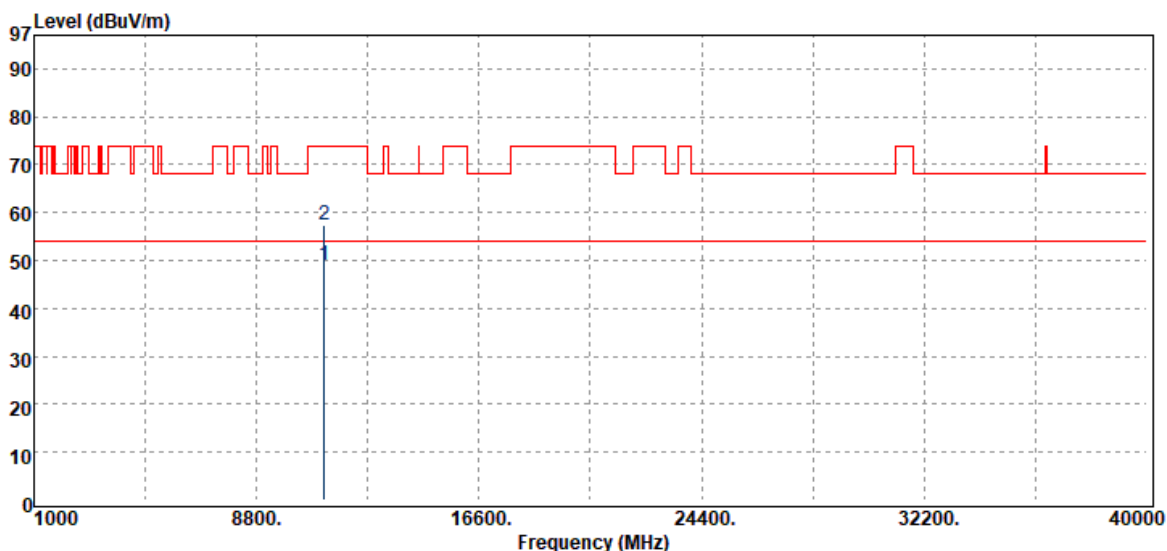
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Report Number :ER-2020-60011
 Operation Mode :802.11a
 Test Frequency :5580 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-24
 Temp./Humi. :24.6/63
 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
11160.00	Average	26.95	22.20	49.15	54.00	-4.85
11160.00	Peak	35.25	22.20	57.45	74.00	-16.55

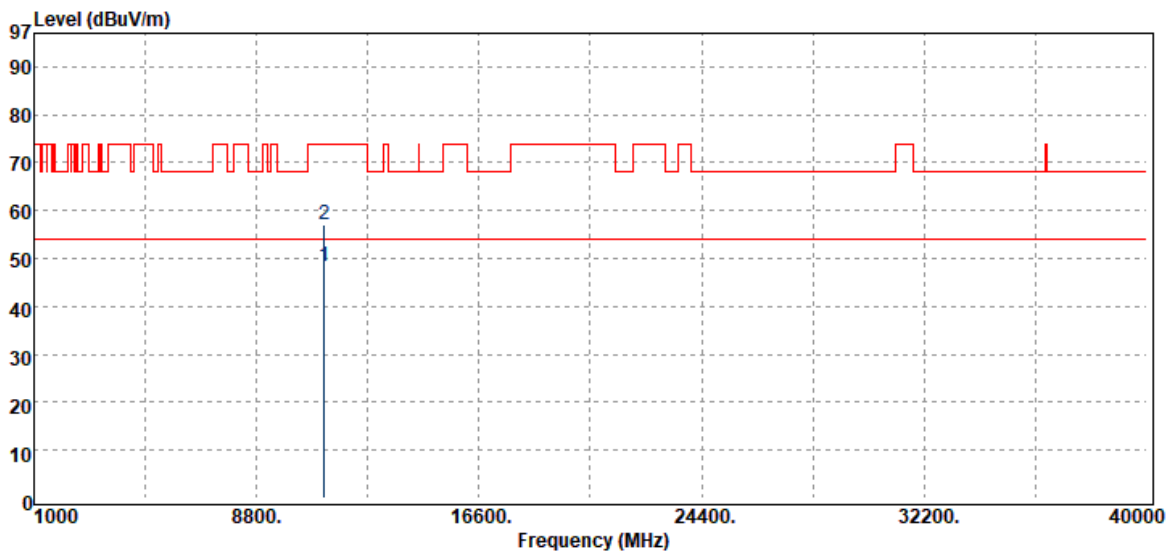
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Report Number :ER-2020-60011
 Operation Mode :802.11a
 Test Frequency :5580 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-24
 Temp./Humi. :24.6/63
 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
11160.00	Average	26.07	22.20	48.27	54.00	-5.73
11160.00	Peak	34.80	22.20	57.00	74.00	-17.00

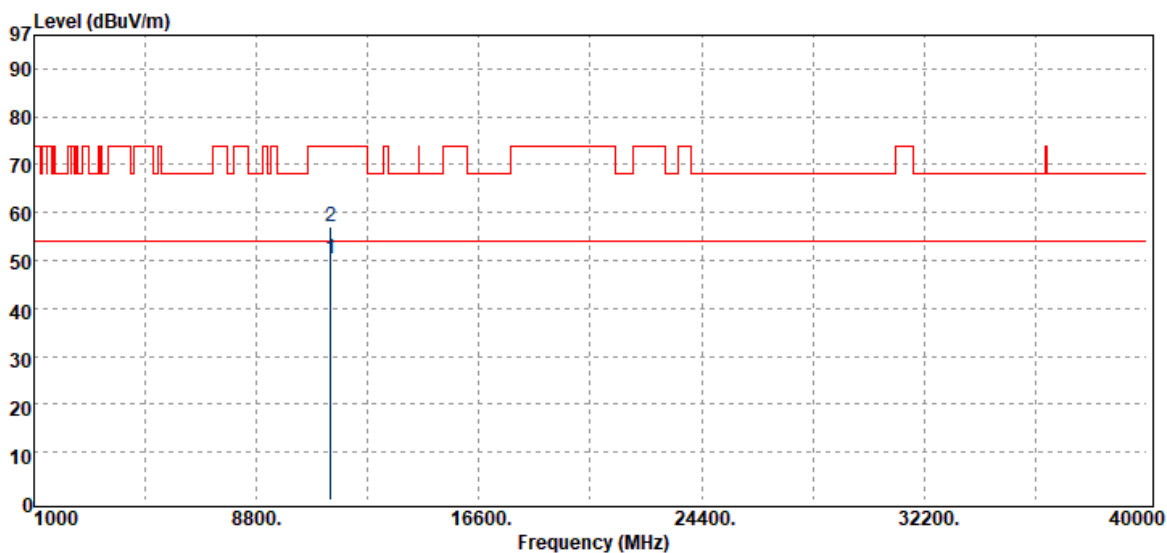
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Report Number :ER-2020-60011
 Operation Mode :802.11a
 Test Frequency :5700 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-24
 Temp./Humi. :24.6/63
 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
11400.00	Average	27.97	22.22	50.19	54.00	-3.81
11400.00	Peak	34.77	22.22	56.99	74.00	-17.01

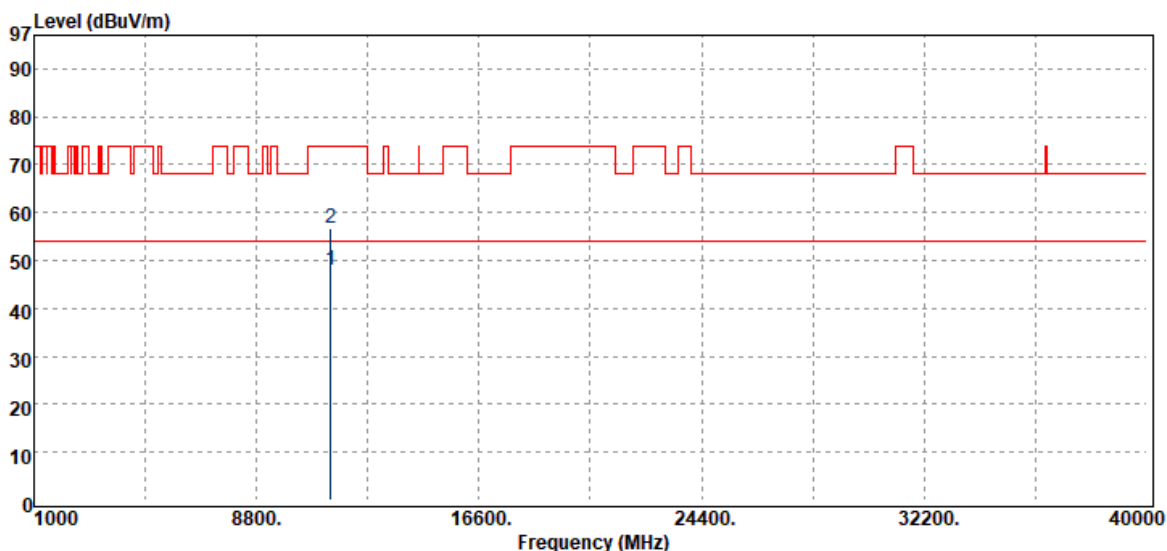
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Report Number :ER-2020-60011
 Operation Mode :802.11a
 Test Frequency :5700 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-24
 Temp./Humi. :24.6/63
 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
11400.00	Average	25.68	22.22	47.90	54.00	-6.10
11400.00	Peak	34.60	22.22	56.82	74.00	-17.18

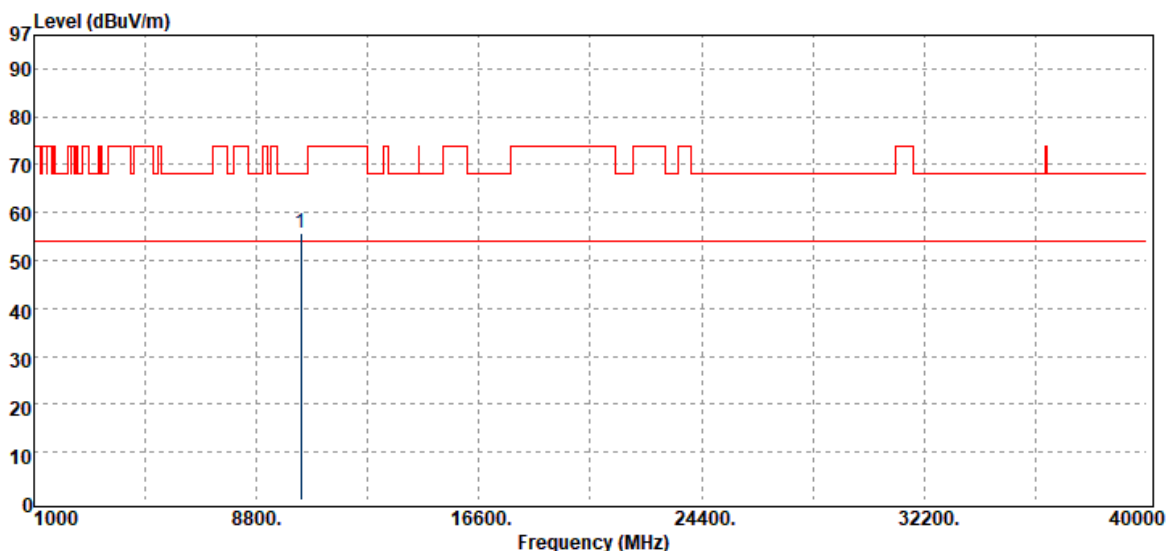
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Report Number :ER-2020-60011
 Operation Mode :802.11n20
 Test Frequency :5180 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-25
 Temp./Humi. :26.3/66
 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
10360.00	Peak	35.18	20.59	55.77	68.20	-12.43

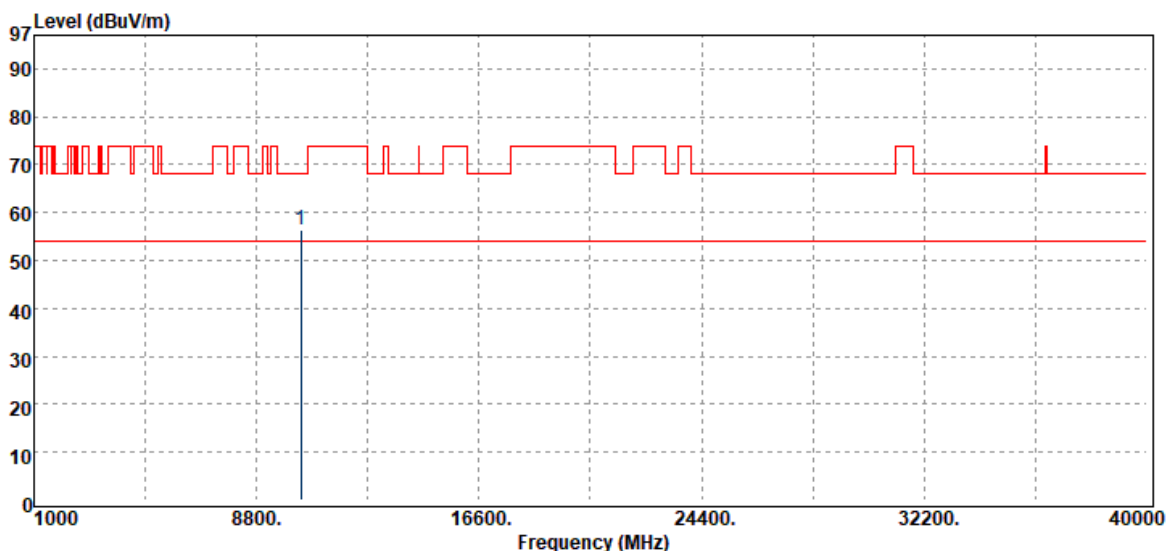
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Report Number :ER-2020-60011
 Operation Mode :802.11n20
 Test Frequency :5180 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-25
 Temp./Humi. :26.3/66
 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
10360.00	Peak	35.68	20.59	56.27	68.20	-11.93

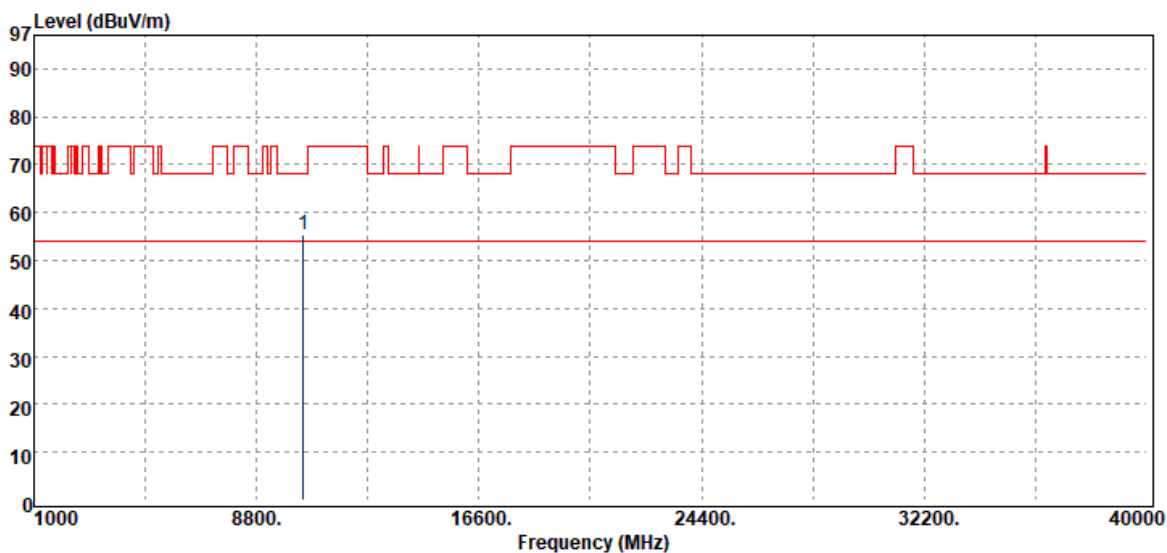
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Report Number :ER-2020-60011
 Operation Mode :802.11n20
 Test Frequency :5220 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-25
 Temp./Humi. :26.3/66
 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
10440.00	Peak	34.39	21.08	55.47	68.20	-12.73

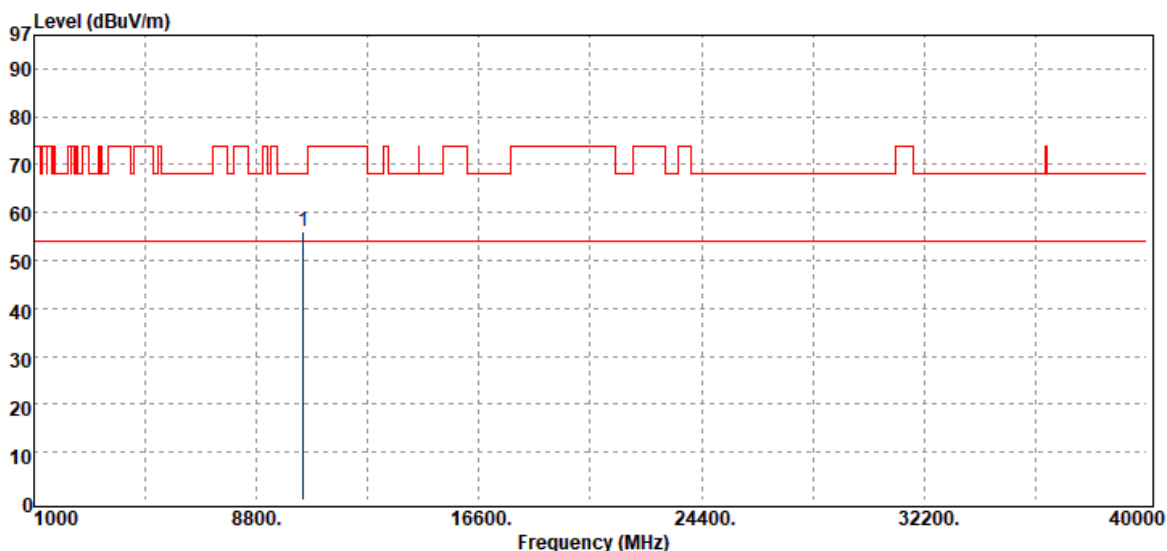
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Report Number :ER-2020-60011
 Operation Mode :802.11n20
 Test Frequency :5220 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-25
 Temp./Humi. :26.3/66
 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
10440.00	Peak	35.07	21.08	56.15	68.20	-12.05

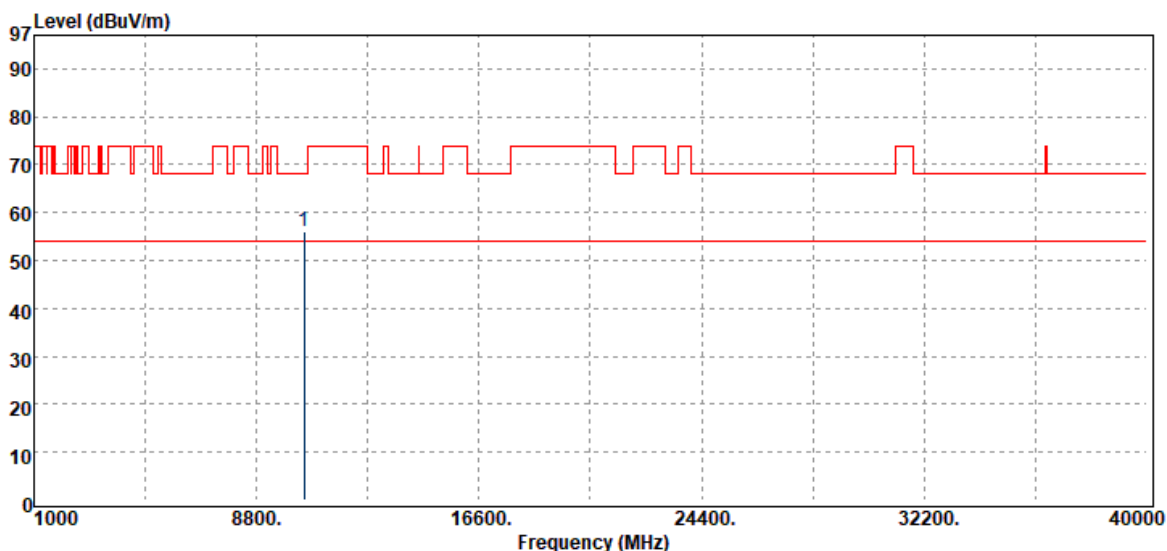
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Report Number :ER-2020-60011
 Operation Mode :802.11n20
 Test Frequency :5240 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-25
 Temp./Humi. :26.3/66
 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
10480.00	Peak	34.94	21.21	56.15	68.20	-12.05

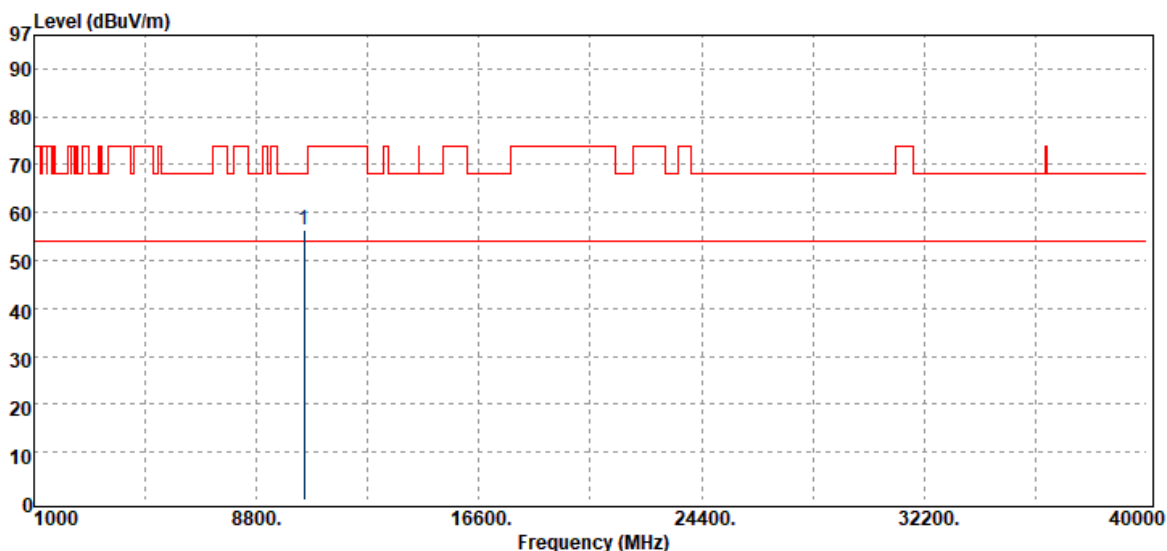
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Report Number :ER-2020-60011
 Operation Mode :802.11n20
 Test Frequency :5240 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-25
 Temp./Humi. :26.3/66
 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
10480.00	Peak	35.05	21.21	56.26	68.20	-11.94

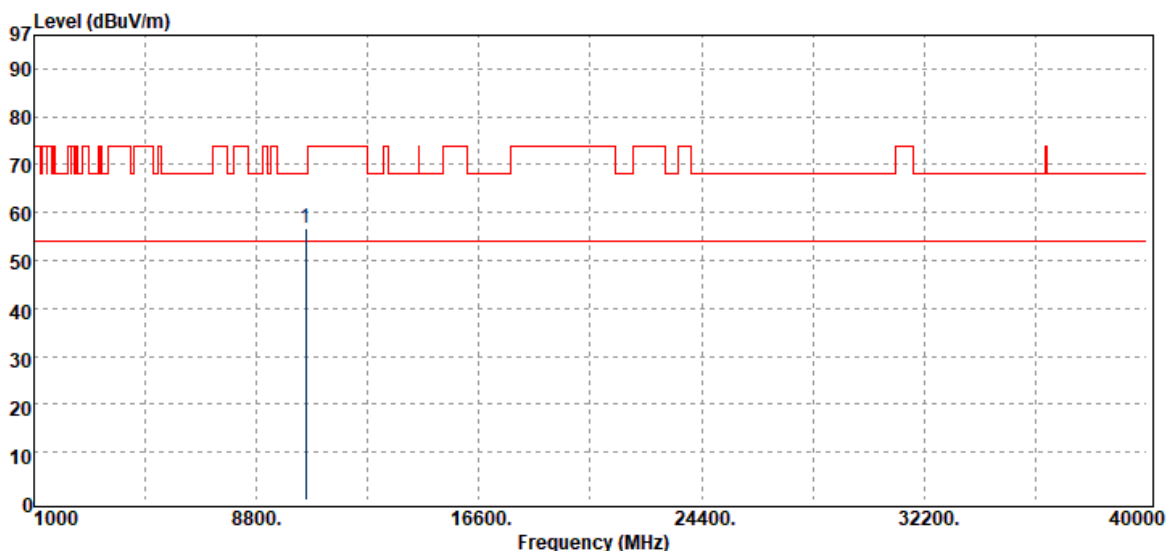
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Report Number :ER-2020-60011
 Operation Mode :802.11n20
 Test Frequency :5260 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-25
 Temp./Humi. :26.3/66
 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
10520.00	Peak	35.30	21.27	56.57	68.20	-11.63

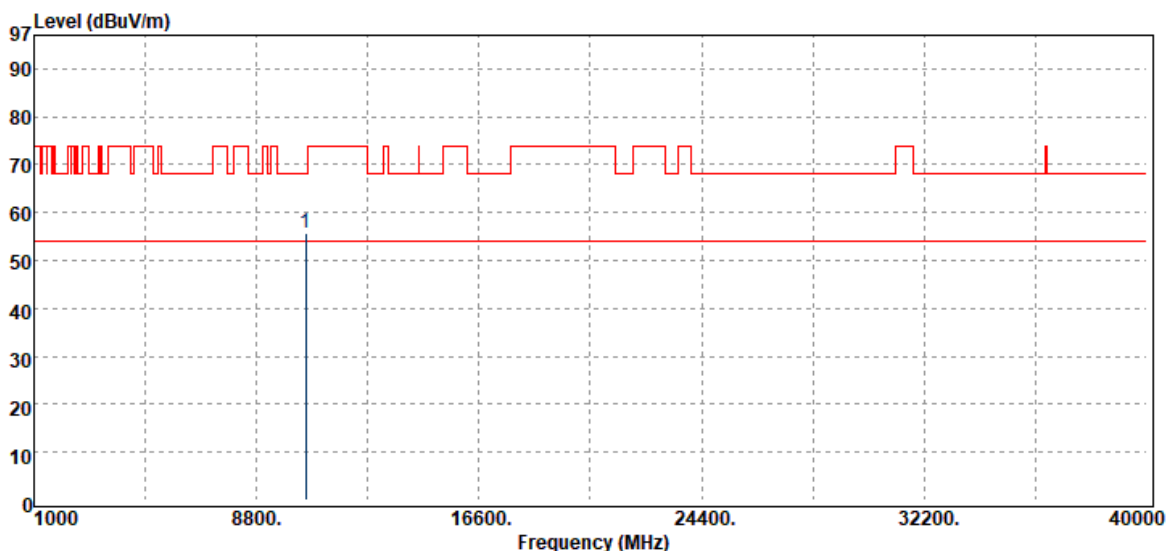
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Report Number :ER-2020-60011
 Operation Mode :802.11n20
 Test Frequency :5260 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-25
 Temp./Humi. :26.3/66
 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
10520.00	Peak	34.32	21.27	55.59	68.20	-12.61

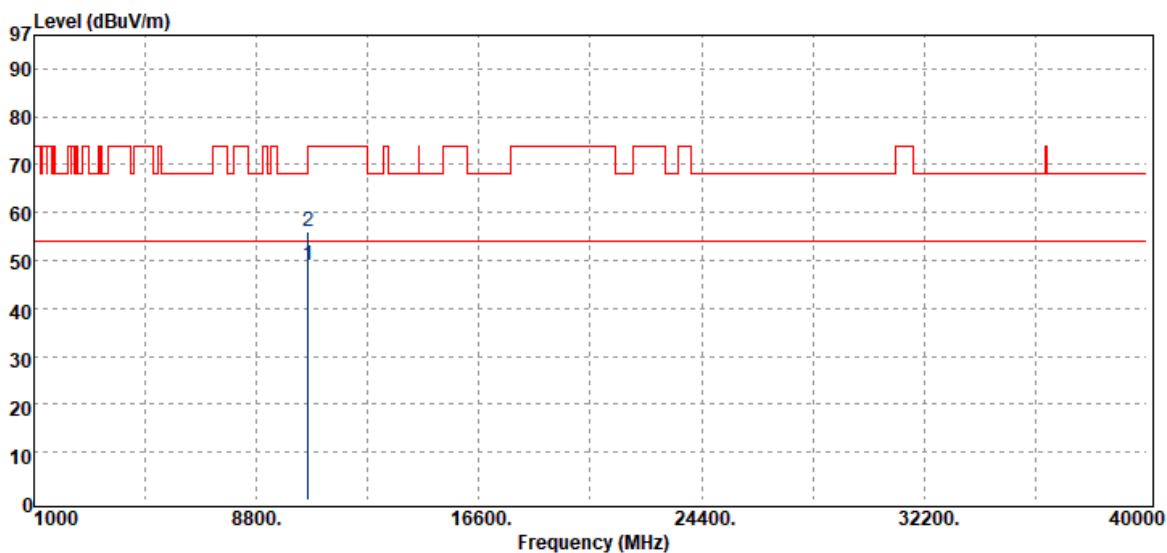
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Report Number :ER-2020-60011
 Operation Mode :802.11n20
 Test Frequency :5300 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-25
 Temp./Humi. :26.3/66
 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
10600.00	Average	27.77	21.27	49.04	54.00	-4.96
10600.00	Peak	34.92	21.27	56.19	74.00	-17.81

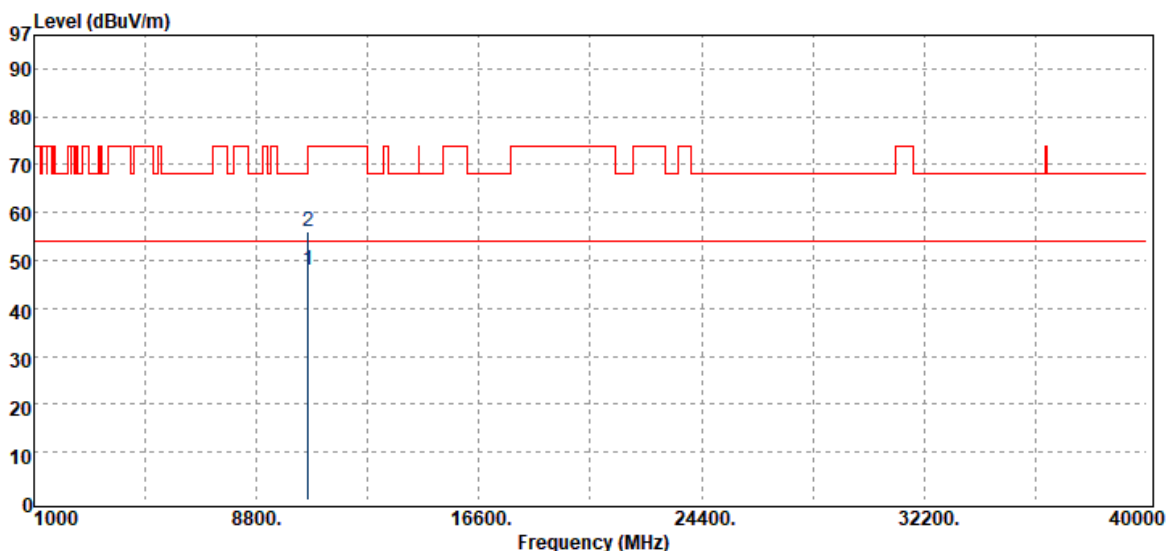
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Report Number :ER-2020-60011
 Operation Mode :802.11n20
 Test Frequency :5300 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-25
 Temp./Humi. :26.3/66
 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
10600.00	Average	26.69	21.27	47.96	54.00	-6.04
10600.00	Peak	34.68	21.27	55.95	74.00	-18.05

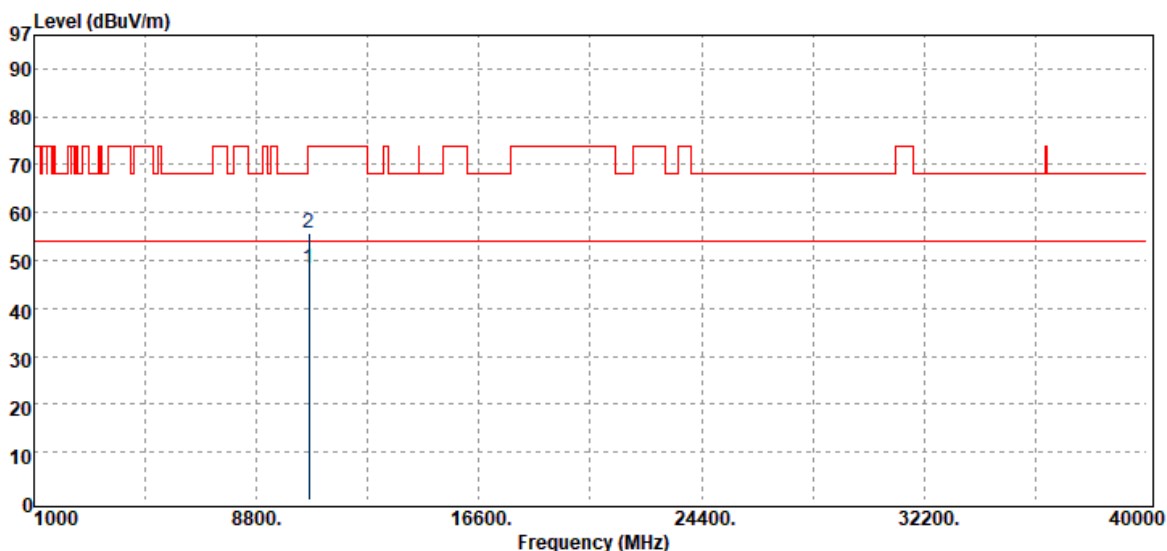
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Report Number :ER-2020-60011
 Operation Mode :802.11n20
 Test Frequency :5320 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-25
 Temp./Humi. :26.3/66
 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
10640.00	Average	27.07	21.21	48.28	54.00	-5.72
10640.00	Peak	34.50	21.21	55.71	74.00	-18.29

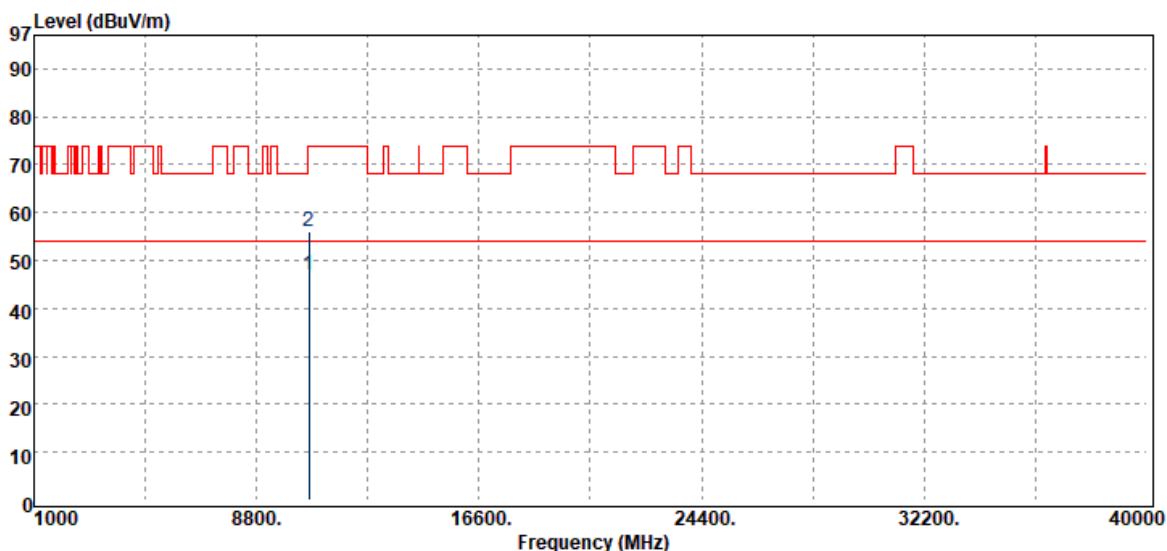
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Report Number :ER-2020-60011
 Operation Mode :802.11n20
 Test Frequency :5320 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-25
 Temp./Humi. :26.3/66
 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
10640.00	Average	25.82	21.21	47.03	54.00	-6.97
10640.00	Peak	34.72	21.21	55.93	74.00	-18.07

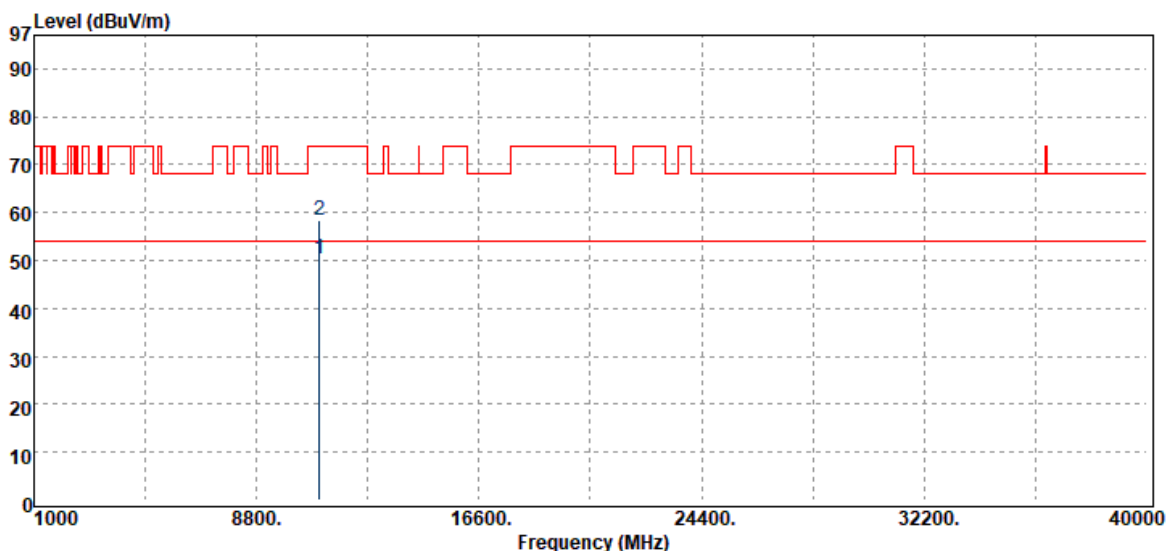
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Report Number :ER-2020-60011
 Operation Mode :802.11n20
 Test Frequency :5500 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-25
 Temp./Humi. :26.3/66
 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
11000.00	Average	26.98	23.37	50.35	54.00	-3.65
11000.00	Peak	34.89	23.37	58.26	74.00	-15.74

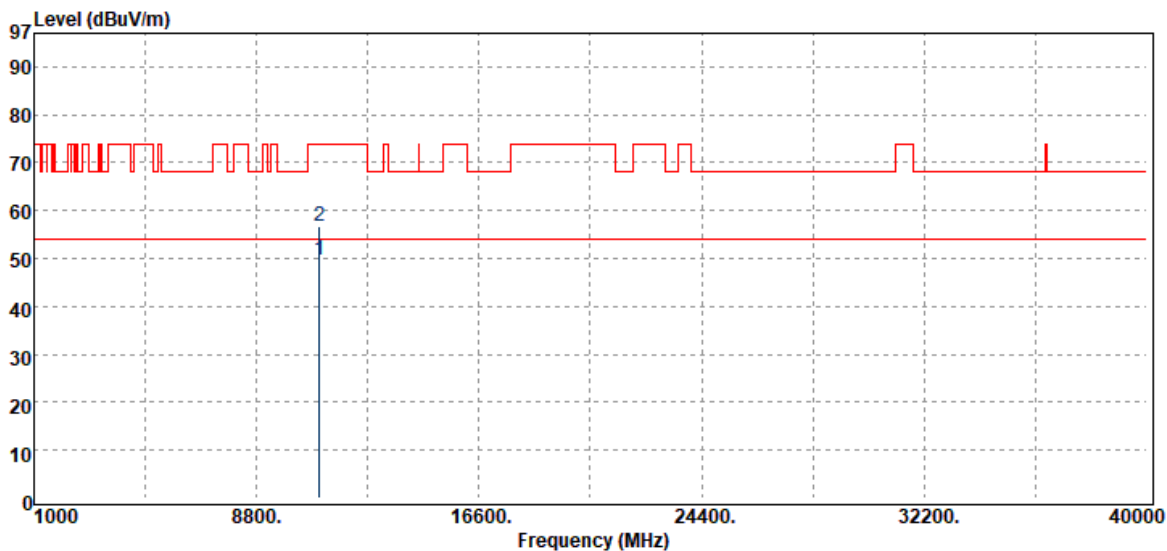
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Report Number :ER-2020-60011
 Operation Mode :802.11n20
 Test Frequency :5500 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-25
 Temp./Humi. :26.3/66
 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
11000.00	Average	26.26	23.37	49.63	54.00	-4.37
11000.00	Peak	33.28	23.37	56.65	74.00	-17.35

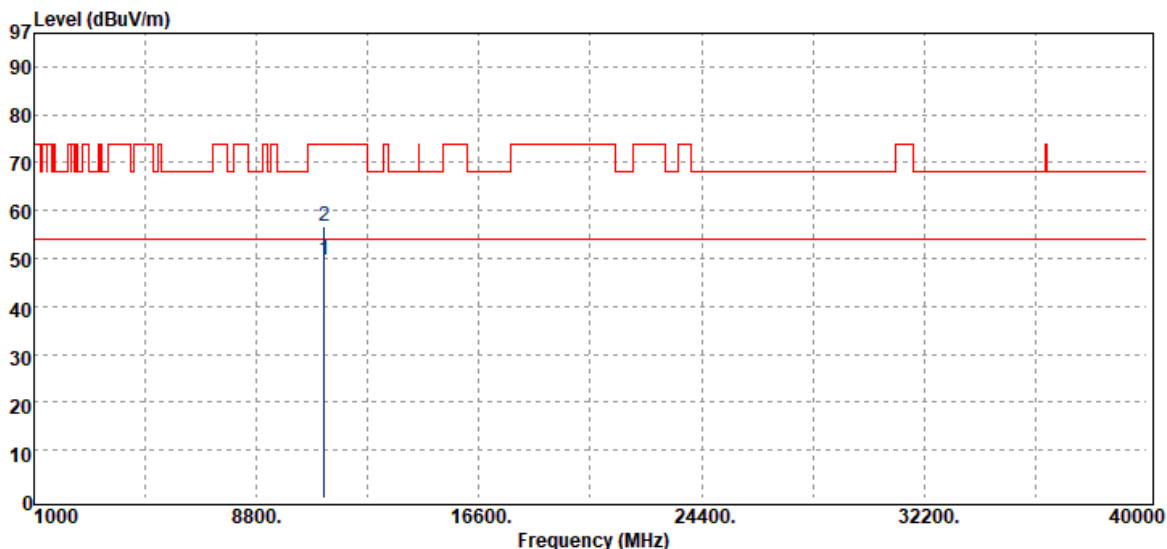
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Report Number :ER-2020-60011
 Operation Mode :802.11n20
 Test Frequency :5580 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-25
 Temp./Humi. :26.3/66
 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
11160.00	Average	27.55	22.20	49.75	54.00	-4.25
11160.00	Peak	34.52	22.20	56.72	74.00	-17.28

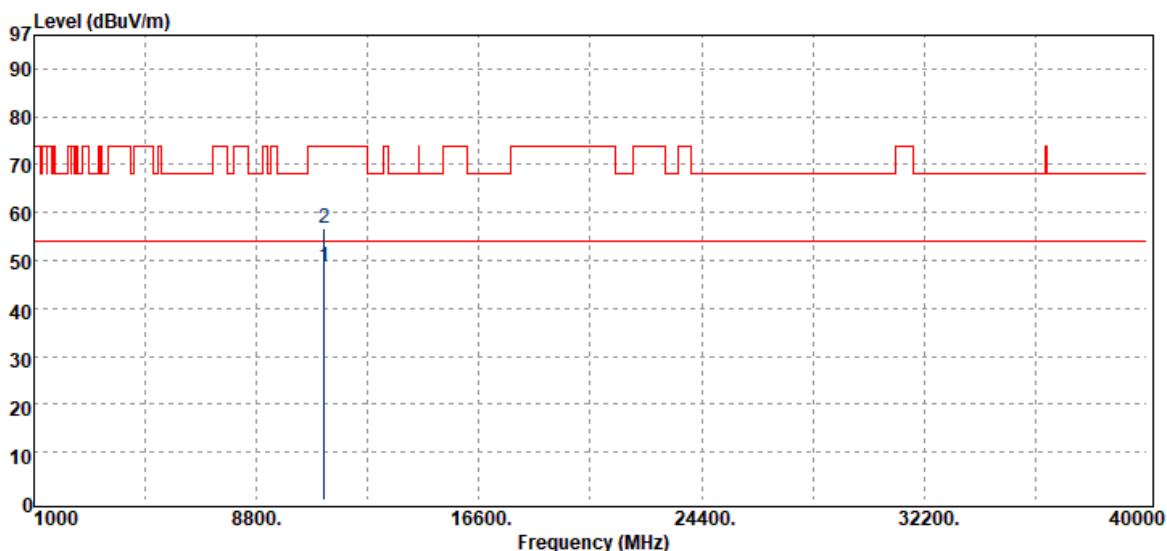
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Report Number :ER-2020-60011
 Operation Mode :802.11n20
 Test Frequency :5580 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-25
 Temp./Humi. :26.3/66
 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
11160.00	Average	26.43	22.20	48.63	54.00	-5.37
11160.00	Peak	34.67	22.20	56.87	74.00	-17.13

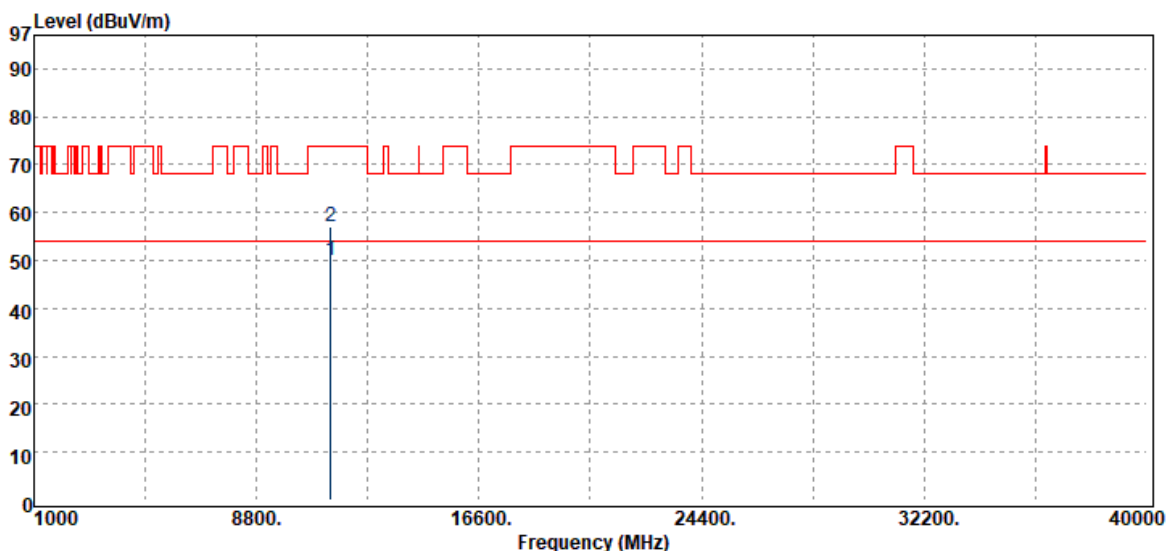
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Report Number :ER-2020-60011
 Operation Mode :802.11n20
 Test Frequency :5700 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-25
 Temp./Humi. :26.3/66
 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
11400.00	Average	27.67	22.22	49.89	54.00	-4.11
11400.00	Peak	34.76	22.22	56.98	74.00	-17.02

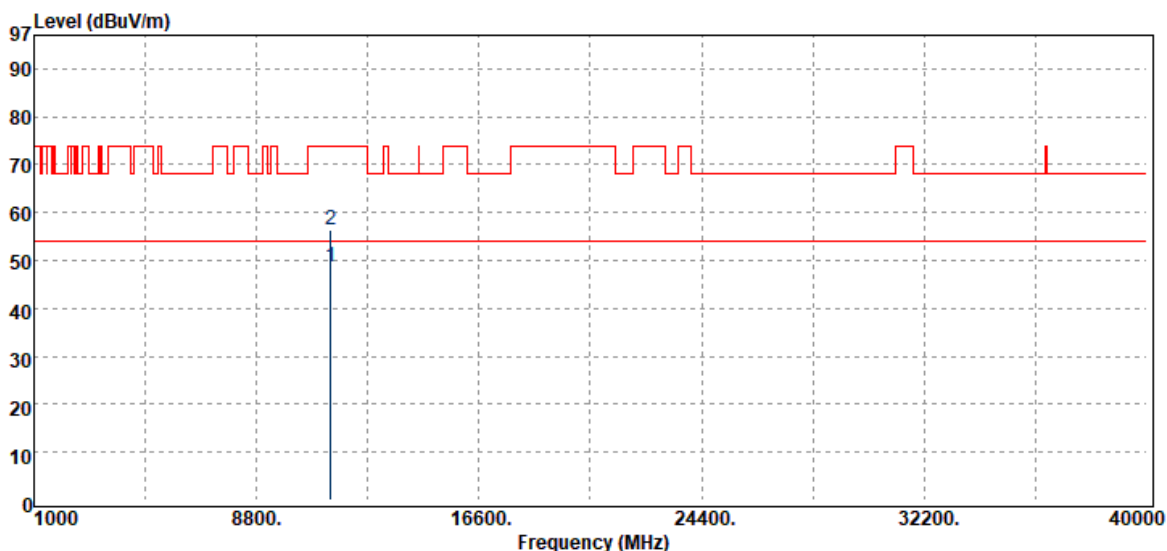
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Report Number :ER-2020-60011
 Operation Mode :802.11n20
 Test Frequency :5700 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-25
 Temp./Humi. :26.3/66
 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
11400.00	Average	26.31	22.22	48.53	54.00	-5.47
11400.00	Peak	34.11	22.22	56.33	74.00	-17.67

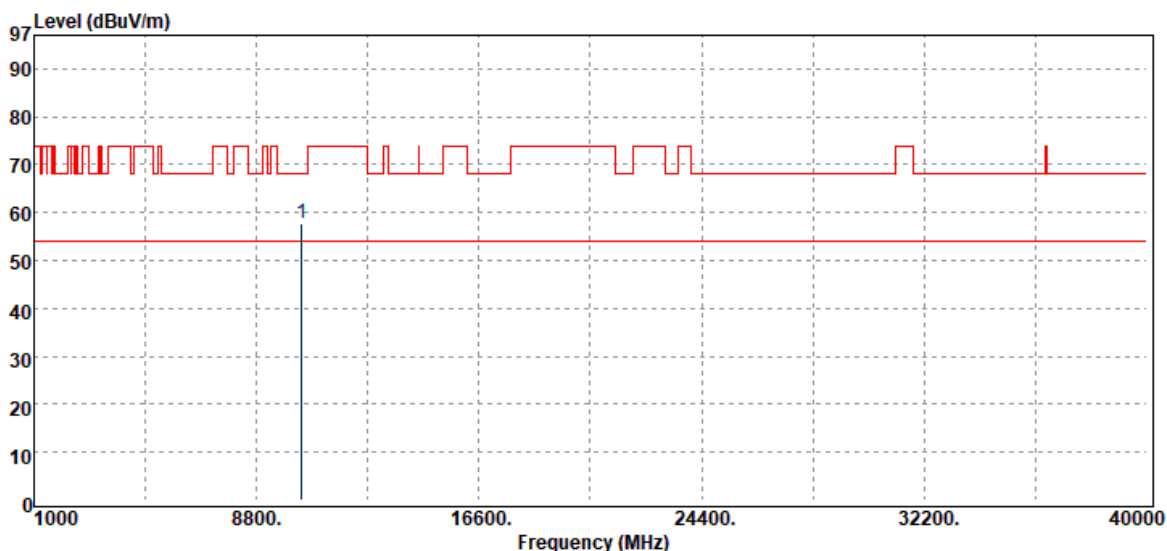
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Report Number :ER-2020-60011
 Operation Mode :802.11n40
 Test Frequency :5190 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-27
 Temp./Humi. :25.8/59
 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
10380.00	Peak	37.21	20.61	57.82	68.20	-10.38

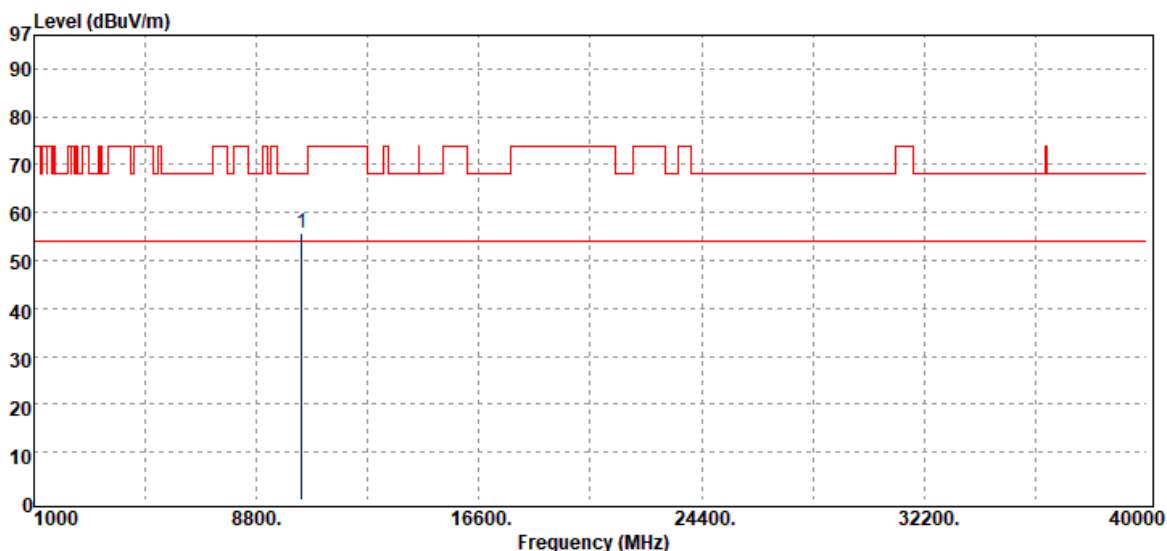
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Report Number :ER-2020-60011
 Operation Mode :802.11n40
 Test Frequency :5190 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-27
 Temp./Humi. :25.8/59
 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
10380.00	Peak	35.12	20.61	55.73	68.20	-12.47

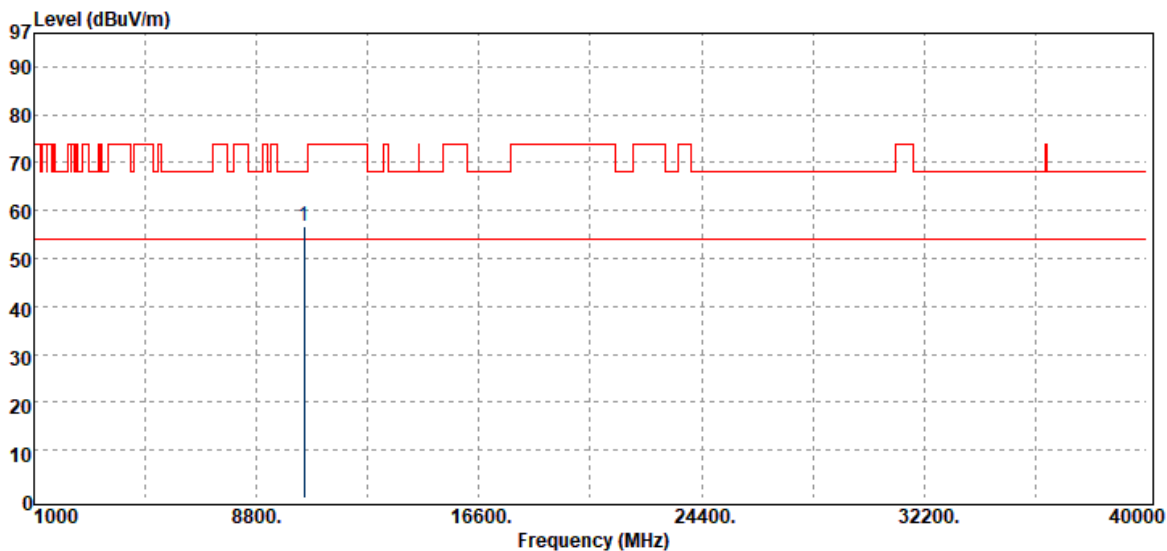
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Report Number :ER-2020-60011
 Operation Mode :802.11n40
 Test Frequency :5230 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-27
 Temp./Humi. :25.8/59
 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
10460.00	Peak	35.50	21.20	56.70	68.20	-11.50

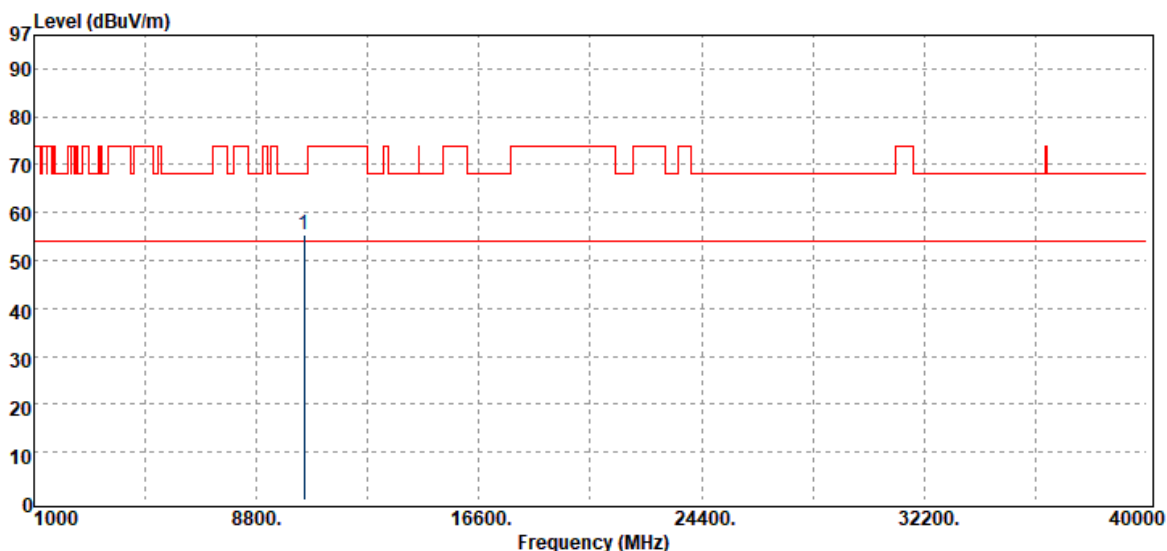
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Report Number :ER-2020-60011
 Operation Mode :802.11n40
 Test Frequency :5230 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-27
 Temp./Humi. :25.8/59
 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
10460.00	Peak	34.28	21.20	55.48	68.20	-12.72

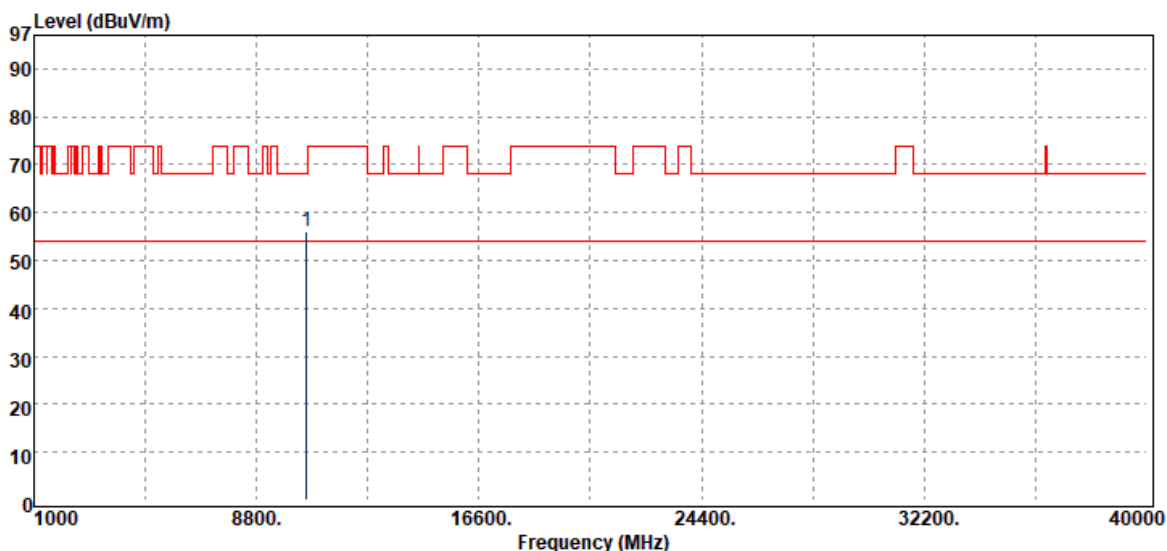
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Report Number :ER-2020-60011
 Operation Mode :802.11n40
 Test Frequency :5270 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-27
 Temp./Humi. :25.8/59
 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
10540.00	Peak	34.76	21.31	56.07	68.20	-12.13

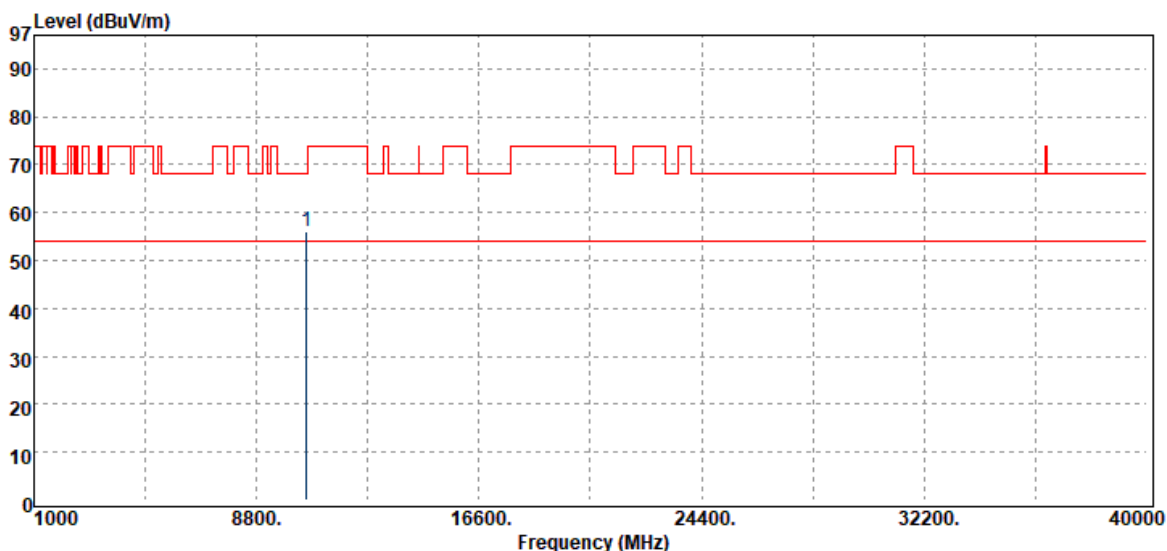
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Report Number :ER-2020-60011
 Operation Mode :802.11n40
 Test Frequency :5270 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-27
 Temp./Humi. :25.8/59
 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
10540.00	Peak	34.88	21.31	56.19	68.20	-12.01

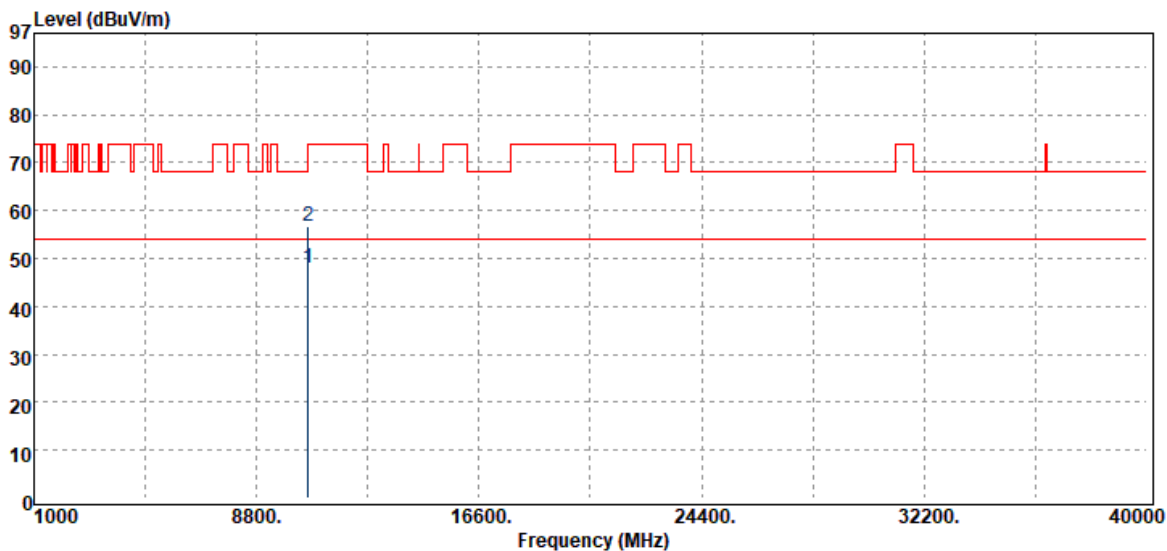
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Report Number :ER-2020-60011
 Operation Mode :802.11n40
 Test Frequency :5310 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-27
 Temp./Humi. :25.8/59
 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
10620.00	Average	26.80	21.24	48.04	54.00	-5.96
10620.00	Peak	35.49	21.24	56.73	74.00	-17.27

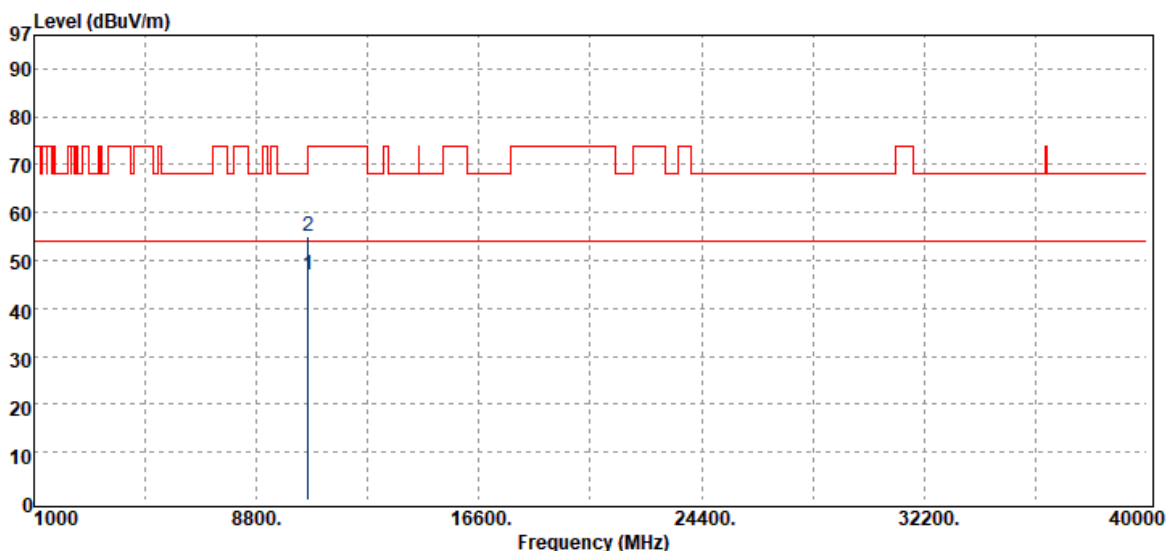
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Report Number :ER-2020-60011
 Operation Mode :802.11n40
 Test Frequency :5310 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-27
 Temp./Humi. :25.8/59
 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
10620.00	Average	25.85	21.24	47.09	54.00	-6.91
10620.00	Peak	33.89	21.24	55.13	74.00	-18.87

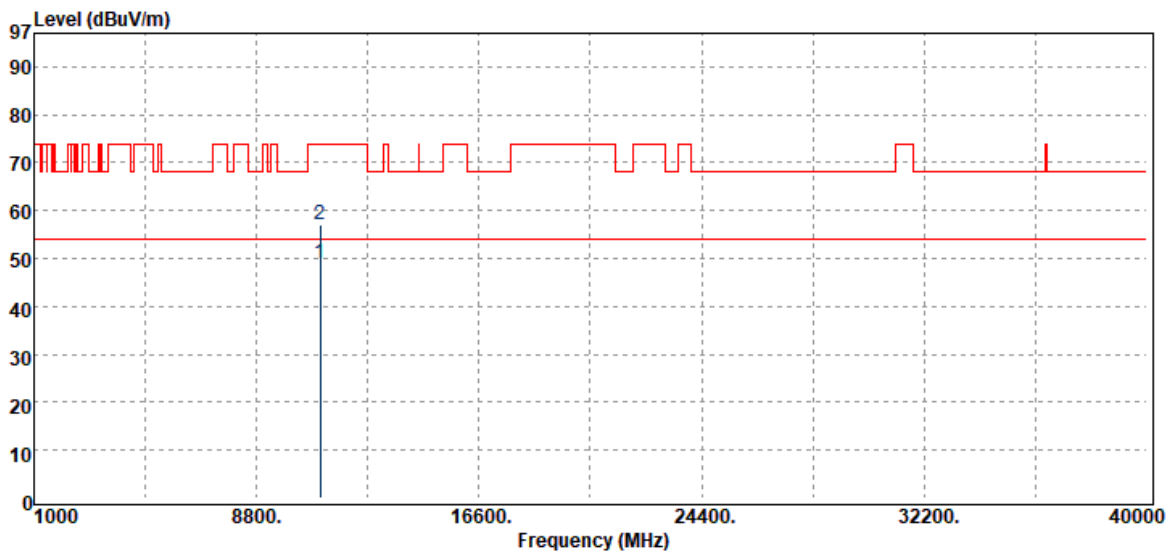
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Report Number :ER-2020-60011
 Operation Mode :802.11n40
 Test Frequency :5510 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-27
 Temp./Humi. :25.8/59
 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
11020.00	Average	26.12	22.85	48.97	54.00	-5.03
11020.00	Peak	34.22	22.85	57.07	74.00	-16.93

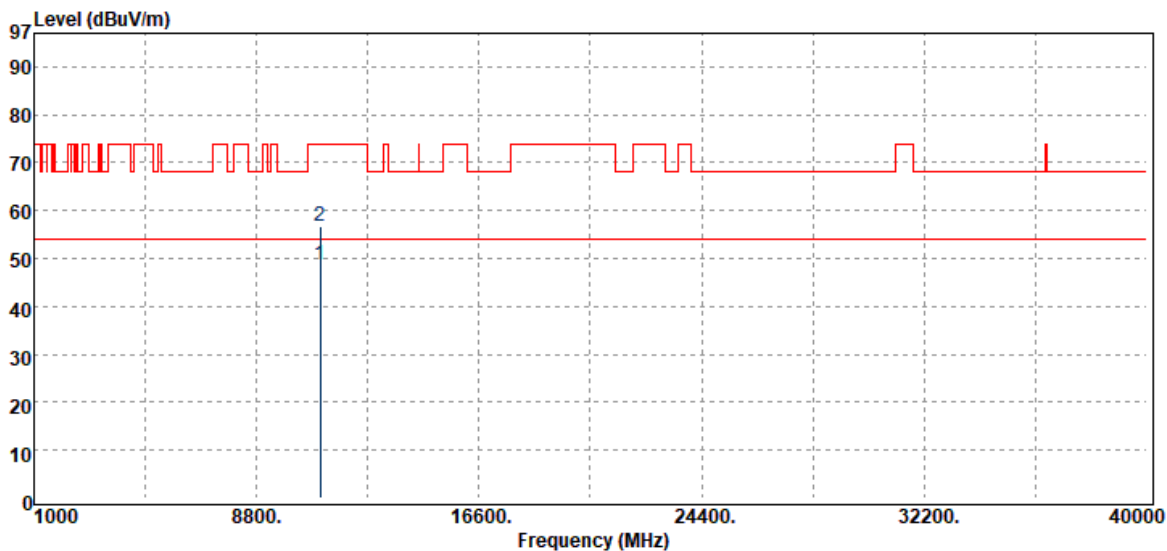
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Report Number :ER-2020-60011
 Operation Mode :802.11n40
 Test Frequency :5510 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-27
 Temp./Humi. :25.8/59
 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
11020.00	Average	25.90	22.85	48.75	54.00	-5.25
11020.00	Peak	33.89	22.85	56.74	74.00	-17.26

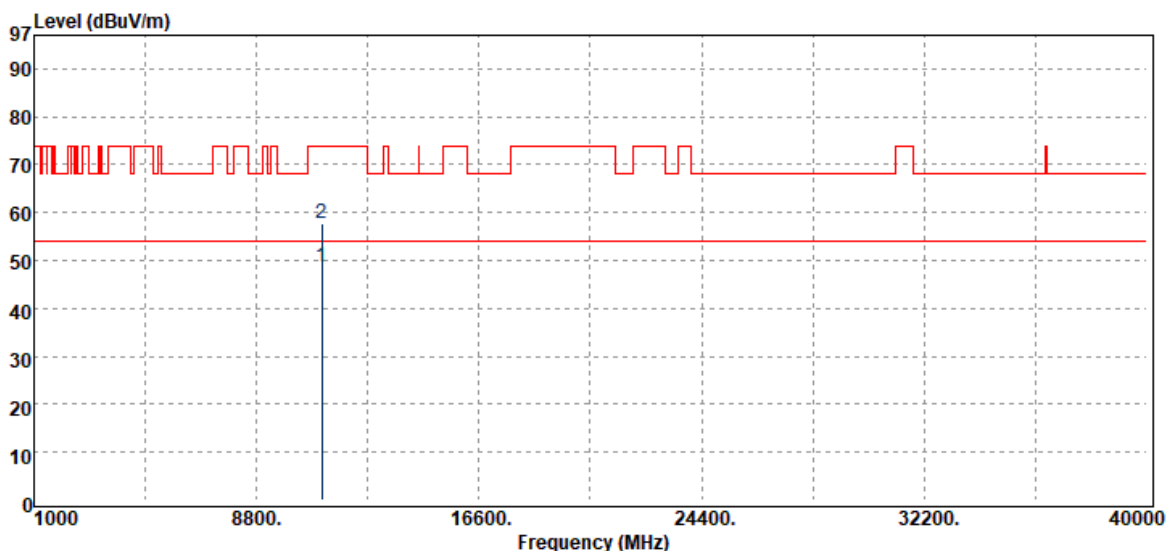
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Report Number :ER-2020-60011
 Operation Mode :802.11n40
 Test Frequency :5550 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-27
 Temp./Humi. :25.8/59
 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
11100.00	Average	26.68	21.82	48.50	54.00	-5.50
11100.00	Peak	35.81	21.82	57.63	74.00	-16.37

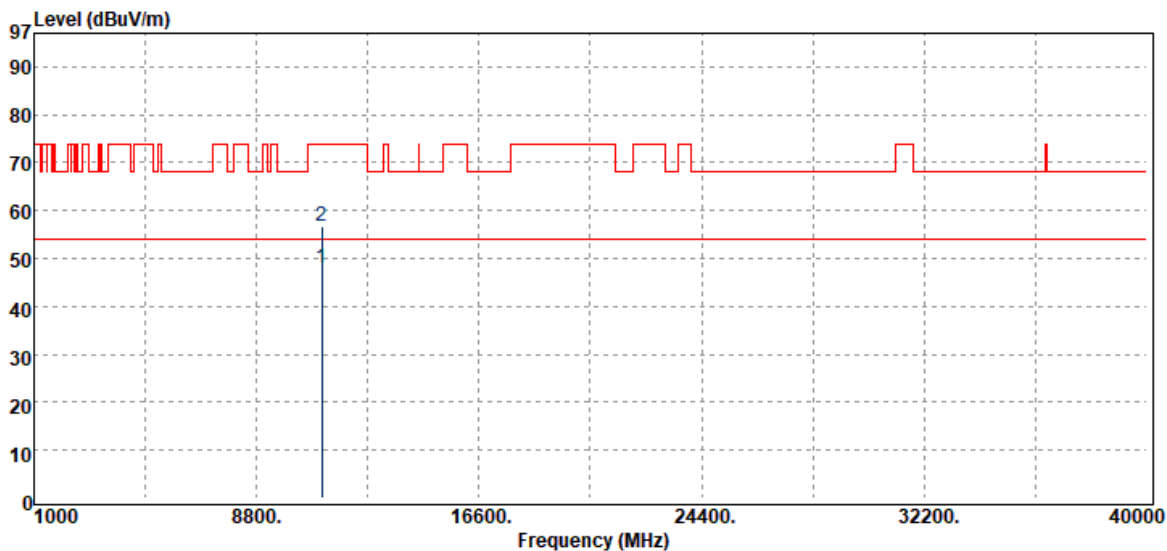
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Report Number :ER-2020-60011
 Operation Mode :802.11n40
 Test Frequency :5550 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-27
 Temp./Humi. :25.8/59
 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
11100.00	Average	26.27	21.82	48.09	54.00	-5.91
11100.00	Peak	35.02	21.82	56.84	74.00	-17.16

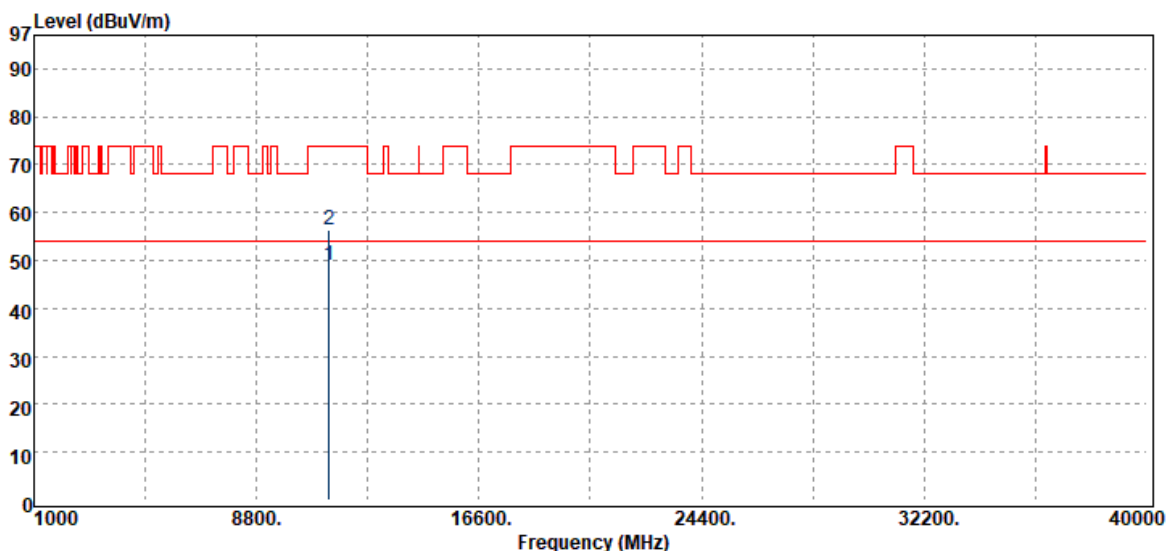
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Report Number :ER-2020-60011
 Operation Mode :802.11n40
 Test Frequency :5670 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-27
 Temp./Humi. :25.8/59
 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
11340.00	Average	26.82	22.34	49.16	54.00	-4.84
11340.00	Peak	34.00	22.34	56.34	74.00	-17.66

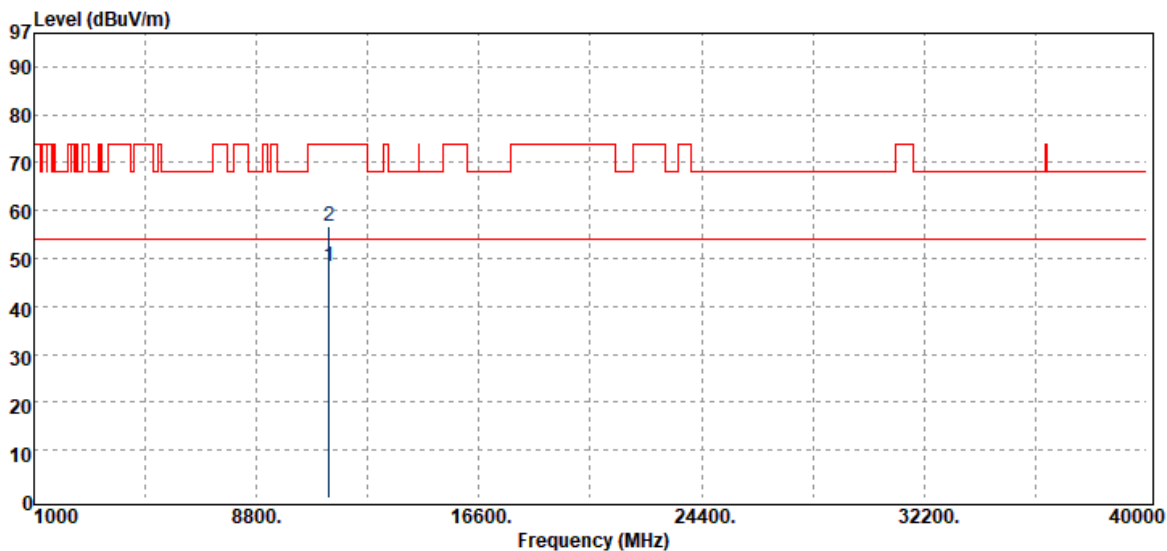
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Report Number :ER-2020-60011
 Operation Mode :802.11n40
 Test Frequency :5670 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-27
 Temp./Humi. :25.8/59
 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
11340.00	Average	26.08	22.34	48.42	54.00	-5.58
11340.00	Peak	34.36	22.34	56.70	74.00	-17.30

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For U-NII 3

Report Number :ER-2020-C0058

Operation Mode :802.11a

Test Frequency :5745 MHz

Test Mode :Tx CH Low

EUT Pol :H Plane

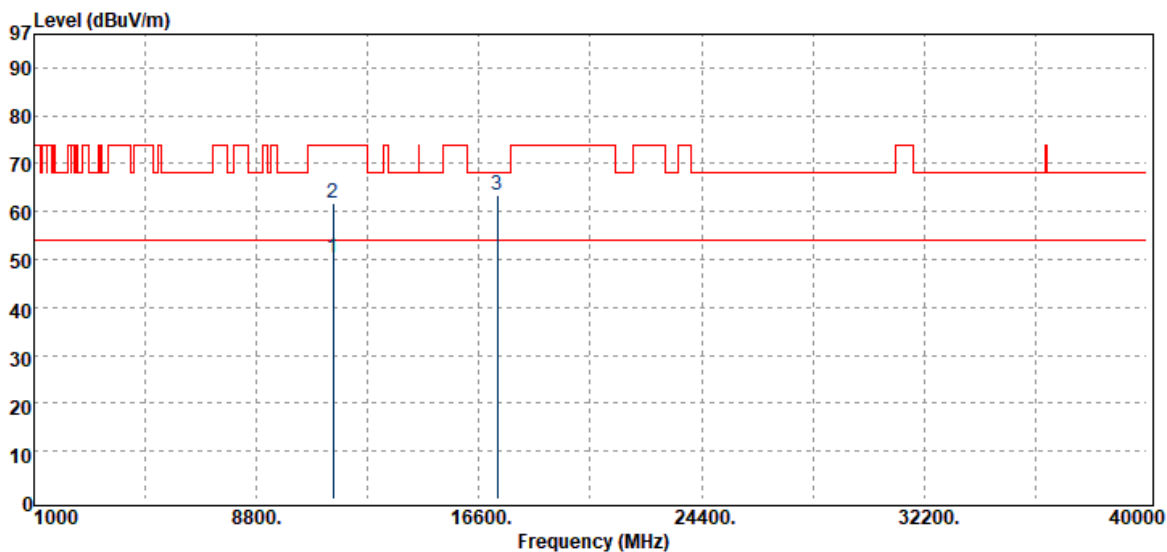
Test Site :SAC III Chamber

Test Date :2021-06-15

Temp./Humi. :26.1/56

Antenna Pol. :VERTICAL

Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Average	24.95	25.46	50.41	54.00	-3.59
11490.00	Peak	36.41	25.46	61.87	74.00	-12.13
17235.00	Peak	34.22	29.18	63.40	68.20	-4.80

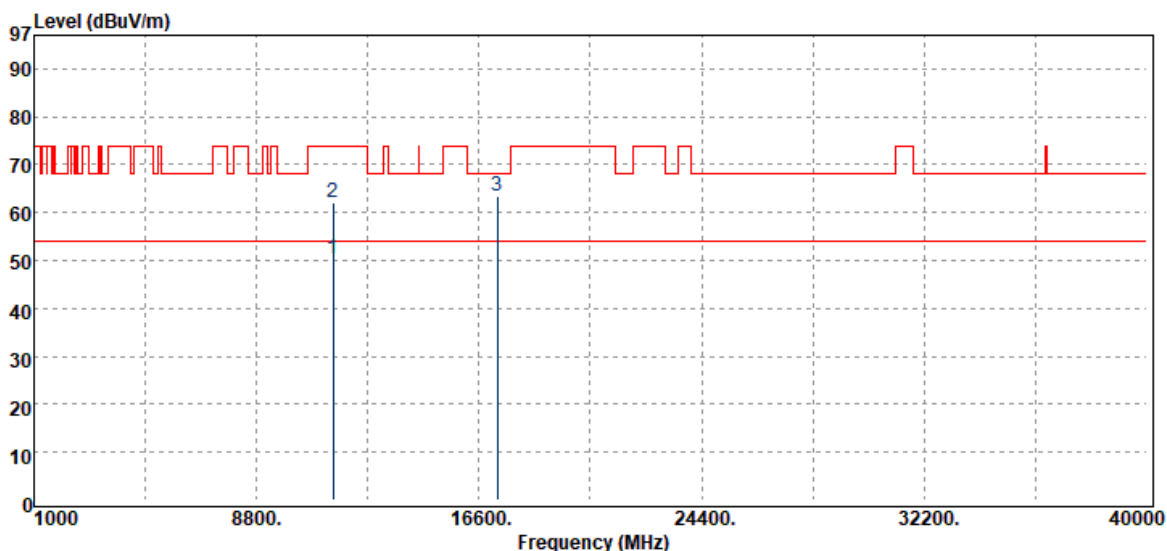
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Report Number :ER-2020-C0058
 Operation Mode :802.11a
 Test Frequency :5745 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-06-15
 Temp./Humi. :26.1/56
 Antenna Pol. :HORIZONTAL
 Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Average	24.89	25.46	50.35	54.00	-3.65
11490.00	Peak	36.60	25.46	62.06	74.00	-11.94
17235.00	Peak	34.12	29.18	63.30	68.20	-4.90

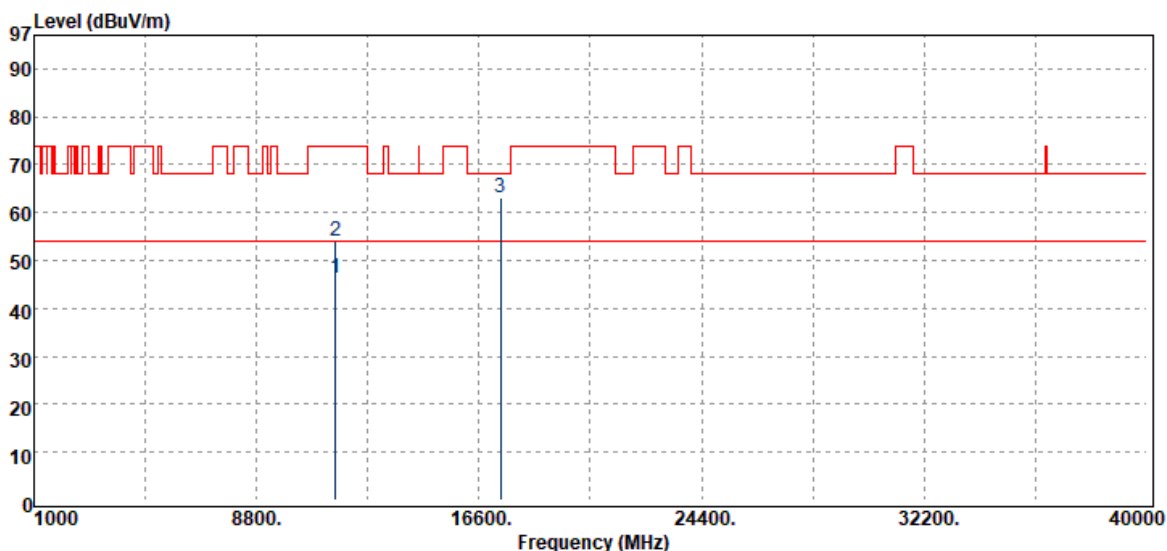
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Report Number :ER-2020-C0058
 Operation Mode :802.11a
 Test Frequency :5785 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-06-15
 Temp./Humi. :26.1/56
 Antenna Pol. :VERTICAL
 Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	24.56	21.87	46.43	54.00	-7.57
11570.00	Peak	32.19	21.87	54.06	74.00	-19.94
17355.00	Peak	34.14	28.93	63.07	68.20	-5.13

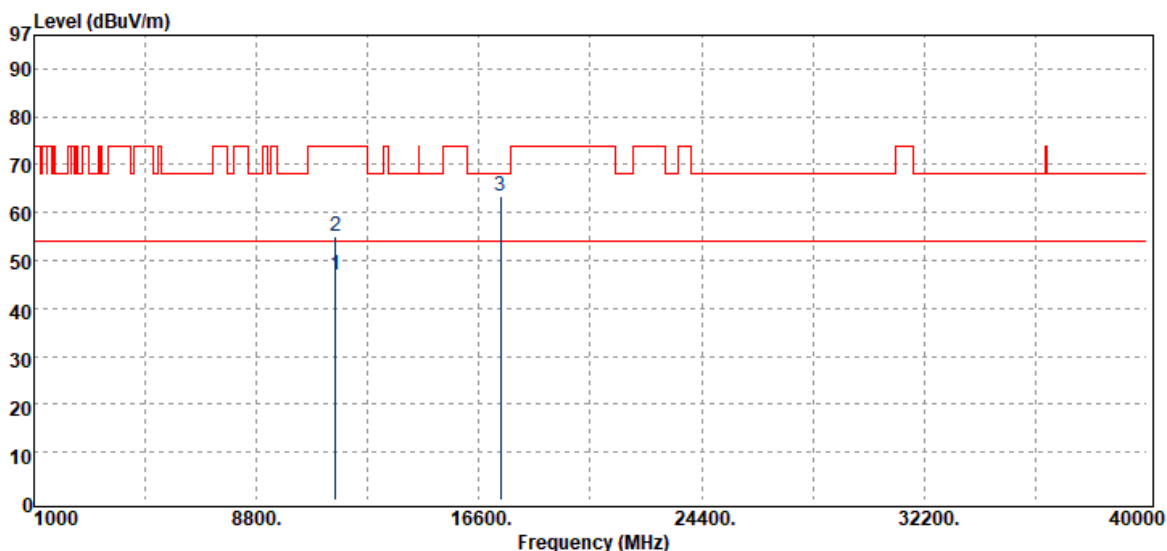
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Report Number :ER-2020-C0058
 Operation Mode :802.11a
 Test Frequency :5785 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-06-15
 Temp./Humi. :26.1/56
 Antenna Pol. :HORIZONTAL
 Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	25.09	21.87	46.96	54.00	-7.04
11570.00	Peak	33.02	21.87	54.89	74.00	-19.11
17355.00	Peak	34.39	28.93	63.32	68.20	-4.88

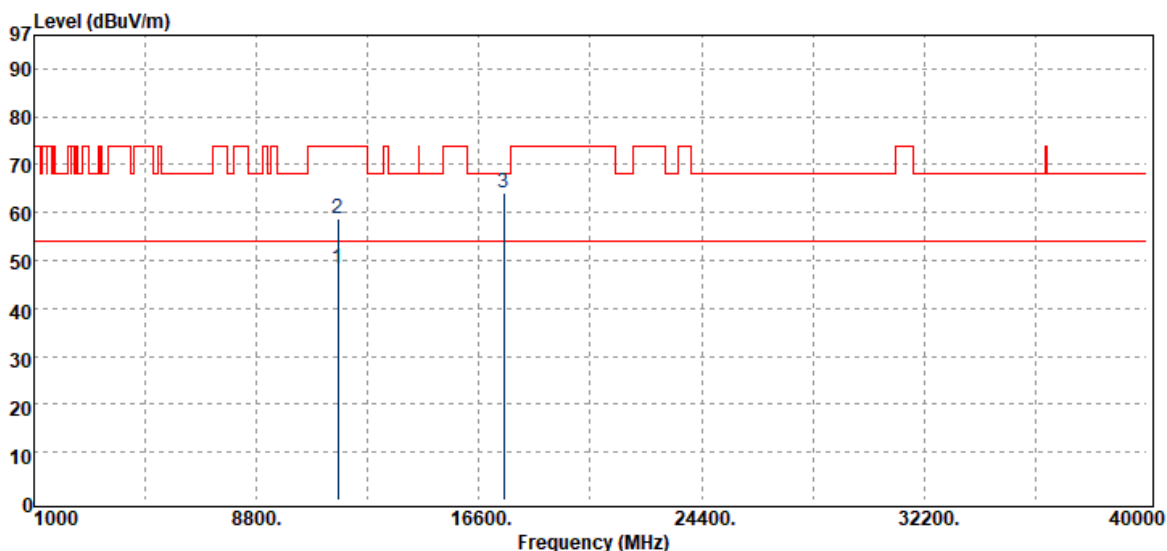
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Report Number :ER-2020-C0058
 Operation Mode :802.11a
 Test Frequency :5825 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-06-15
 Temp./Humi. :26.1/56
 Antenna Pol. :VERTICAL
 Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Average	25.45	22.86	48.31	54.00	-5.69
11650.00	Peak	35.77	22.86	58.63	74.00	-15.37
17475.00	Peak	33.85	30.27	64.12	68.20	-4.08

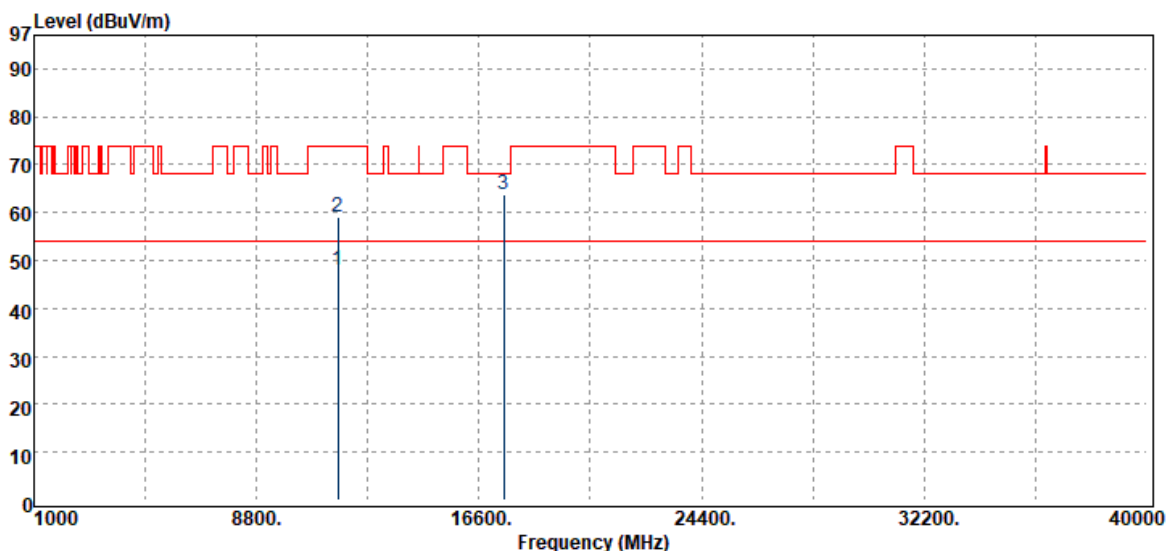
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Report Number :ER-2020-C0058
 Operation Mode :802.11a
 Test Frequency :5825 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-06-15
 Temp./Humi. :26.1/56
 Antenna Pol. :HORIZONTAL
 Engineer :GN Lin



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
11650.00	Average	24.98	22.86	47.84	54.00	-6.16
11650.00	Peak	36.11	22.86	58.97	74.00	-15.03
17475.00	Peak	33.56	30.27	63.83	68.20	-4.37

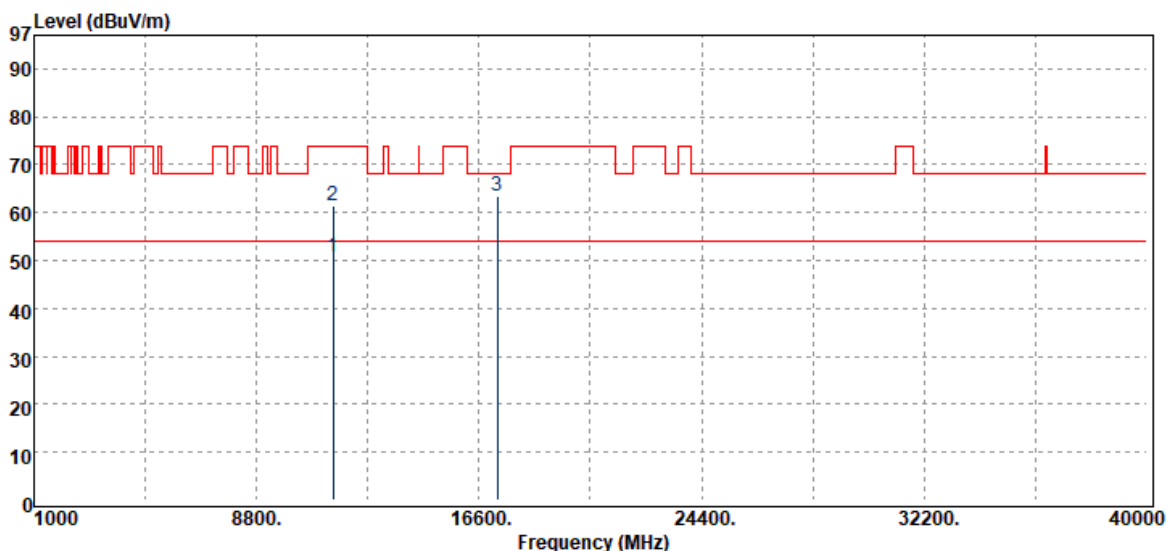
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Report Number :ER-2020-C0058
Operation Mode :802.11n20
Test Frequency :5745 MHz
Test Mode :Tx CH Low
EUT Pol :H Plane

Test Site :SAC III Chamber
Test Date :2021-06-15
Temp./Humi. :26.1/56
Antenna Pol. :VERTICAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Average	25.18	25.46	50.64	54.00	-3.36
11490.00	Peak	35.97	25.46	61.43	74.00	-12.57
17235.00	Peak	34.27	29.18	63.45	68.20	-4.75

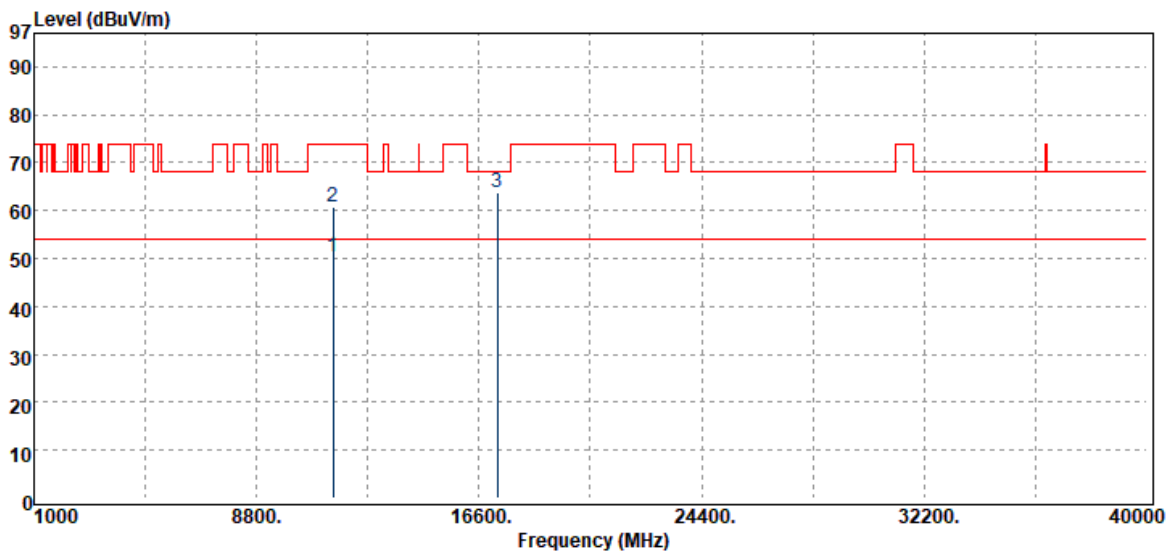
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Report Number :ER-2020-C0058
 Operation Mode :802.11n20
 Test Frequency :5745 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-06-15
 Temp./Humi. :26.1/56
 Antenna Pol. :HORIZONTAL
 Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Average	24.88	25.46	50.34	54.00	-3.66
11490.00	Peak	35.31	25.46	60.77	74.00	-13.23
17235.00	Peak	34.71	29.18	63.89	68.20	-4.31

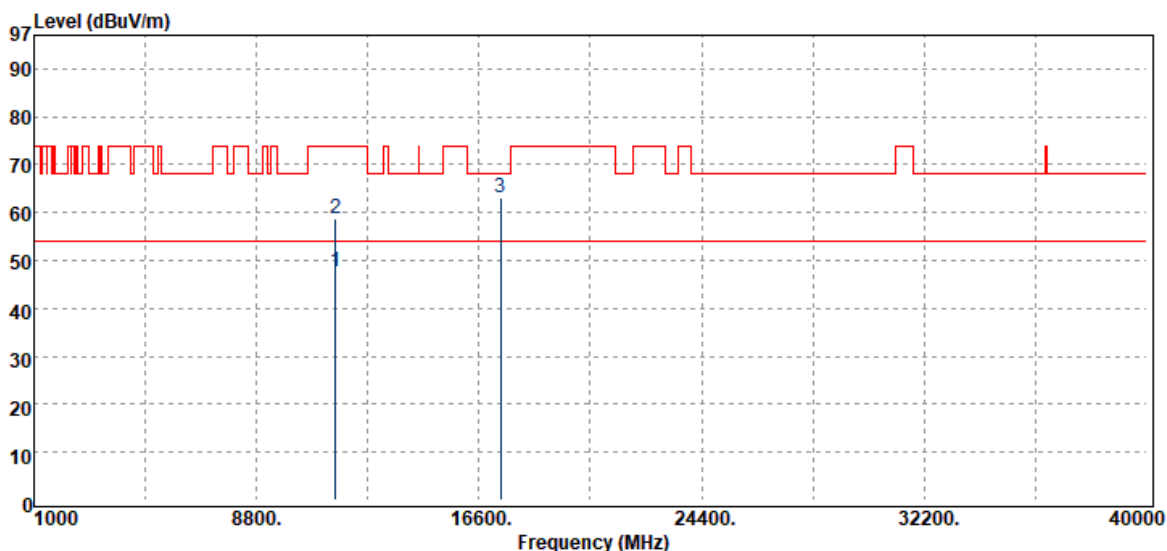
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Report Number :ER-2020-C0058
 Operation Mode :802.11n20
 Test Frequency :5785 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-06-15
 Temp./Humi. :26.1/56
 Antenna Pol. :VERTICAL
 Engineer :GN Lin



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
11570.00	Average	25.74	21.87	47.61	54.00	-6.39
11570.00	Peak	36.82	21.87	58.69	74.00	-15.31
17355.00	Peak	34.12	28.93	63.05	68.20	-5.15

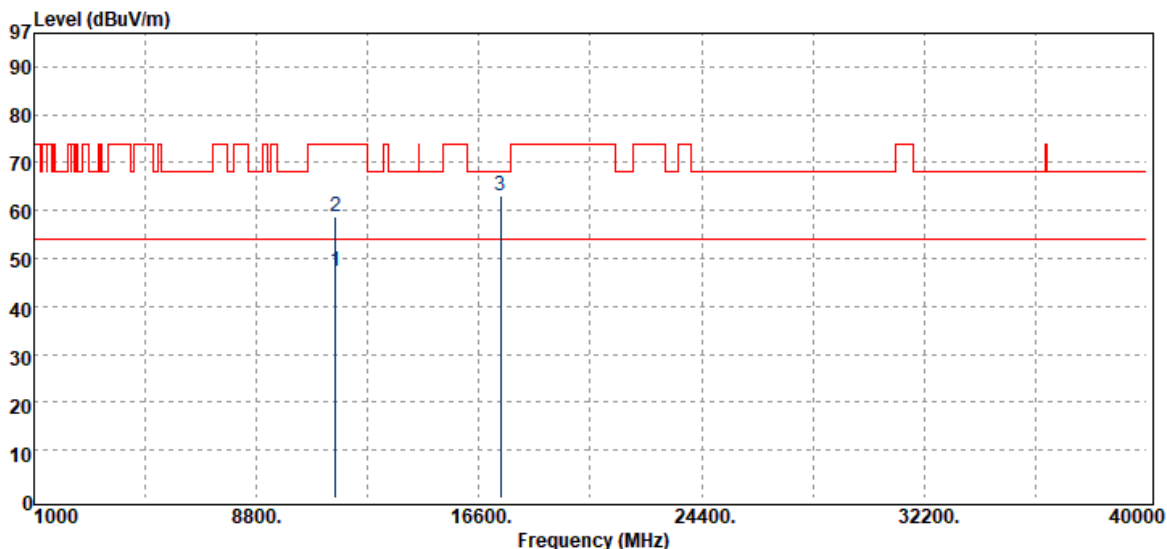
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Report Number :ER-2020-C0058
 Operation Mode :802.11n20
 Test Frequency :5785 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-06-15
 Temp./Humi. :26.1/56
 Antenna Pol. :HORIZONTAL
 Engineer :GN Lin



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
11570.00	Average	25.57	21.87	47.44	54.00	-6.56
11570.00	Peak	36.78	21.87	58.65	74.00	-15.35
17355.00	Peak	34.01	28.93	62.94	68.20	-5.26

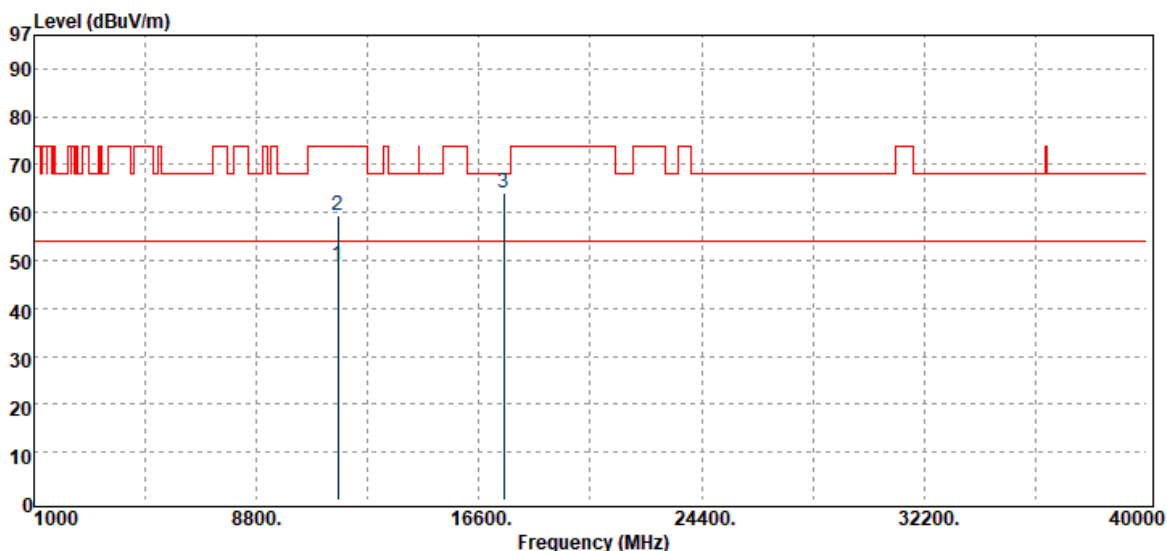
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Report Number :ER-2020-C0058
 Operation Mode :802.11n20
 Test Frequency :5825 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-06-15
 Temp./Humi. :26.1/56
 Antenna Pol. :VERTICAL
 Engineer :GN Lin



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
11650.00	Average	26.03	22.86	48.89	54.00	-5.11
11650.00	Peak	36.65	22.86	59.51	74.00	-14.49
17475.00	Peak	33.75	30.27	64.02	68.20	-4.18

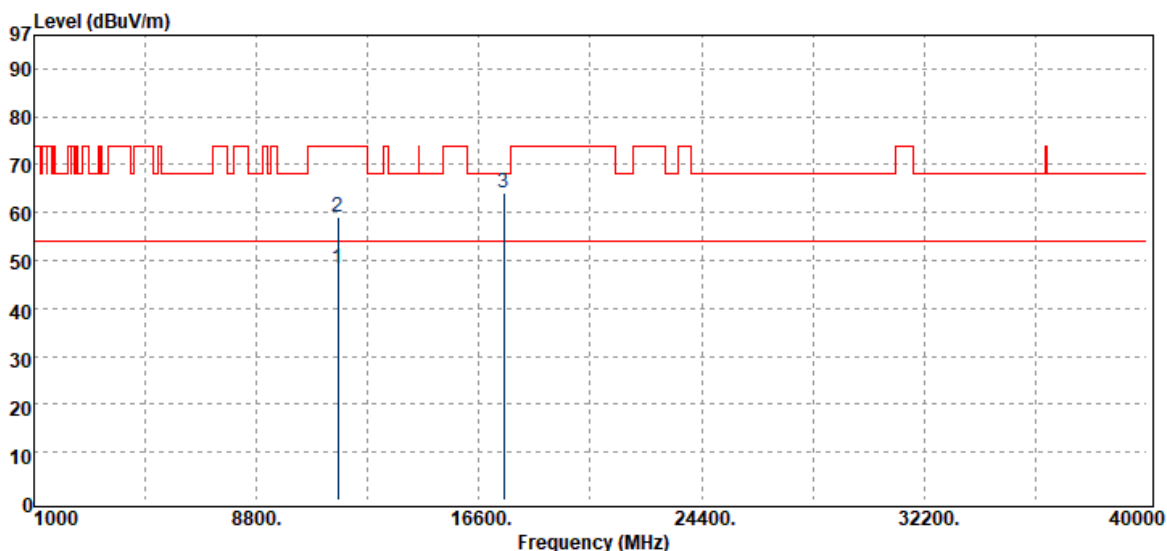
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Report Number :ER-2020-C0058
 Operation Mode :802.11n20
 Test Frequency :5825 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-06-15
 Temp./Humi. :26.1/56
 Antenna Pol. :HORIZONTAL
 Engineer :GN Lin



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
11650.00	Average	25.45	22.86	48.31	54.00	-5.69
11650.00	Peak	36.19	22.86	59.05	74.00	-14.95
17475.00	Peak	33.96	30.27	64.23	68.20	-3.97

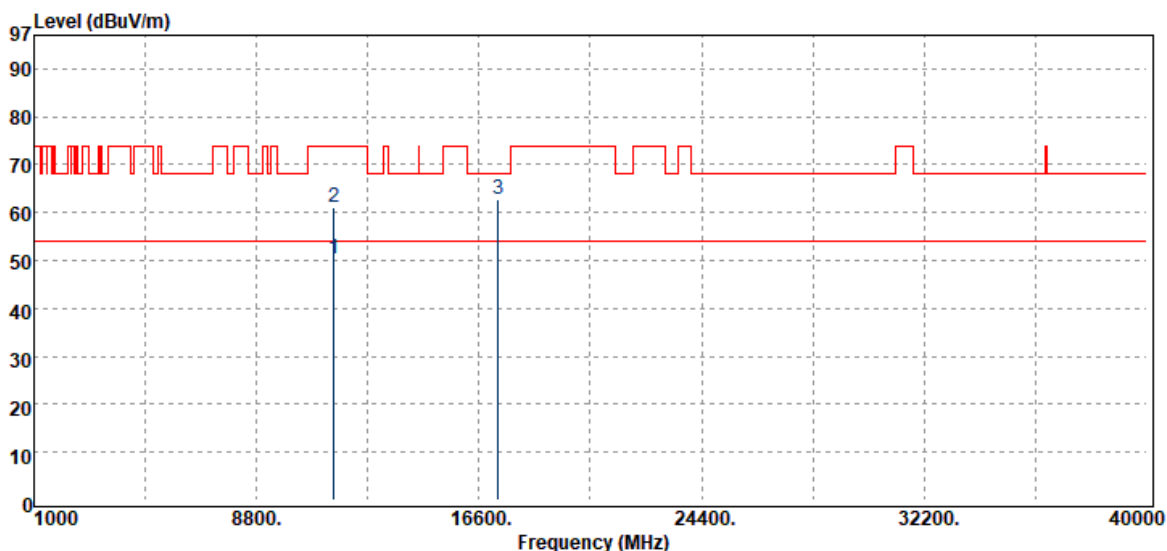
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Report Number :ER-2020-C0058
 Operation Mode :802.11n40
 Test Frequency :5755 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-06-15
 Temp./Humi. :26.1/56
 Antenna Pol. :VERTICAL
 Engineer :GN Lin



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
11510.00	Average	25.03	25.29	50.32	54.00	-3.68
11510.00	Peak	35.96	25.29	61.25	74.00	-12.75
17265.00	Peak	33.96	28.96	62.92	68.20	-5.28

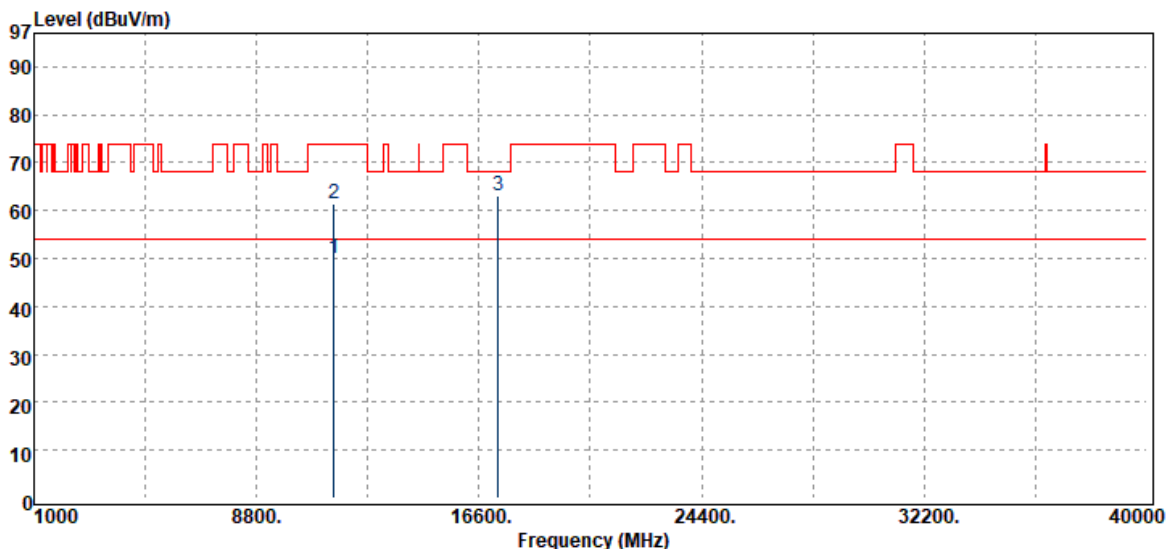
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Report Number :ER-2020-C0058
 Operation Mode :802.11n40
 Test Frequency :5755 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-06-15
 Temp./Humi. :26.1/56
 Antenna Pol. :HORIZONTAL
 Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11510.00	Average	24.88	25.29	50.17	54.00	-3.83
11510.00	Peak	36.00	25.29	61.29	74.00	-12.71
17265.00	Peak	34.14	28.96	63.10	68.20	-5.10

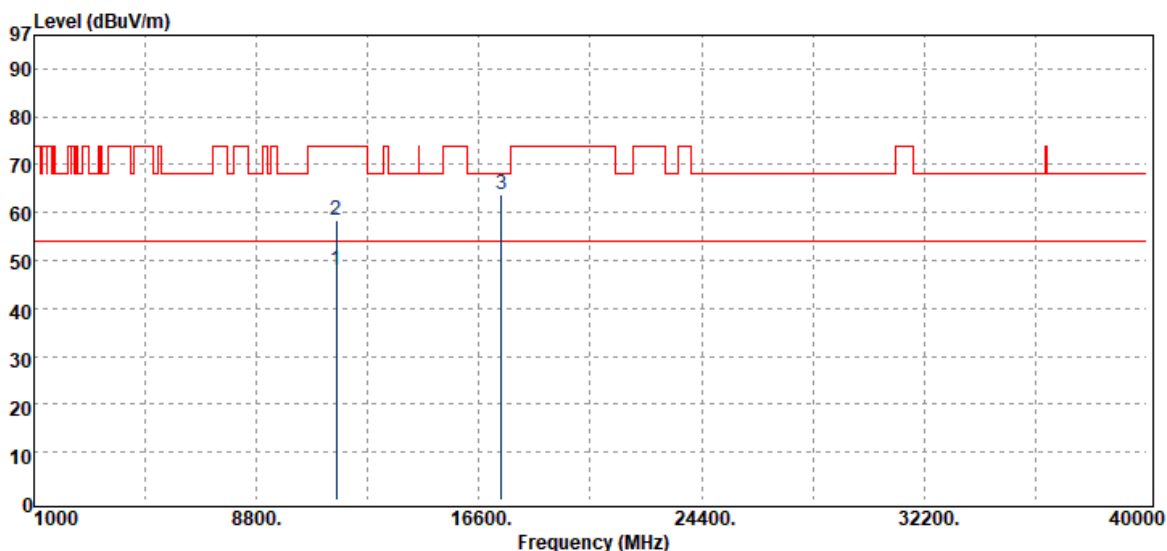
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Report Number :ER-2020-C0058
 Operation Mode :802.11n40
 Test Frequency :5795 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-06-15
 Temp./Humi. :26.1/56
 Antenna Pol. :VERTICAL
 Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11590.00	Average	26.31	21.67	47.98	54.00	-6.02
11590.00	Peak	36.83	21.67	58.50	74.00	-15.50
17385.00	Peak	34.41	29.46	63.87	68.20	-4.33

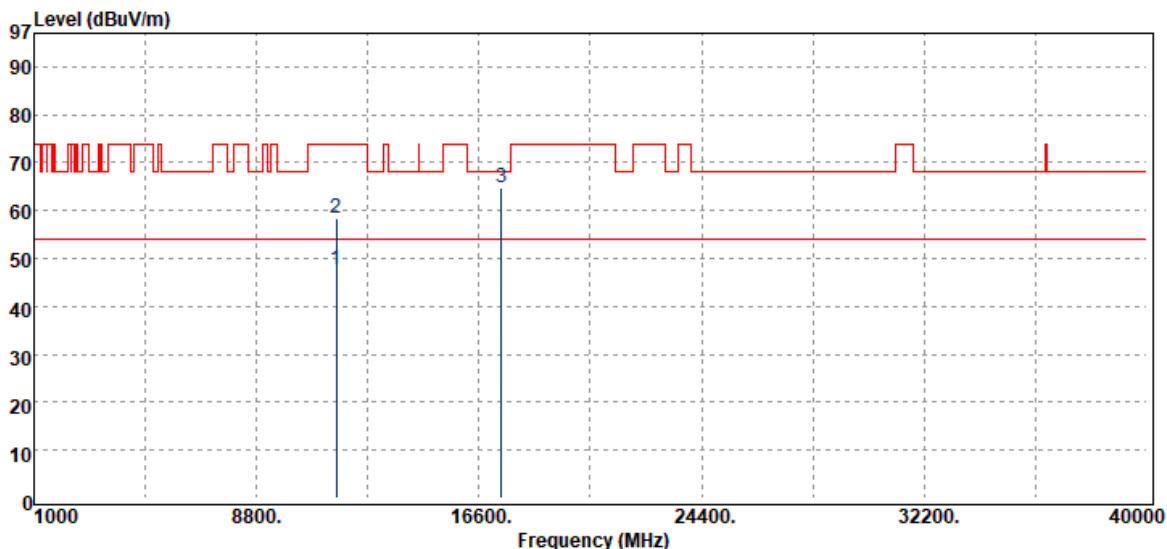
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Report Number :ER-2020-C0058
 Operation Mode :802.11n40
 Test Frequency :5795 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-06-15
 Temp./Humi. :26.1/56
 Antenna Pol. :HORIZONTAL
 Engineer :GN Lin



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
11590.00	Average	26.14	21.67	47.81	54.00	-6.19
11590.00	Peak	36.60	21.67	58.27	74.00	-15.73
17385.00	Peak	35.18	29.46	64.64	68.20	-3.56

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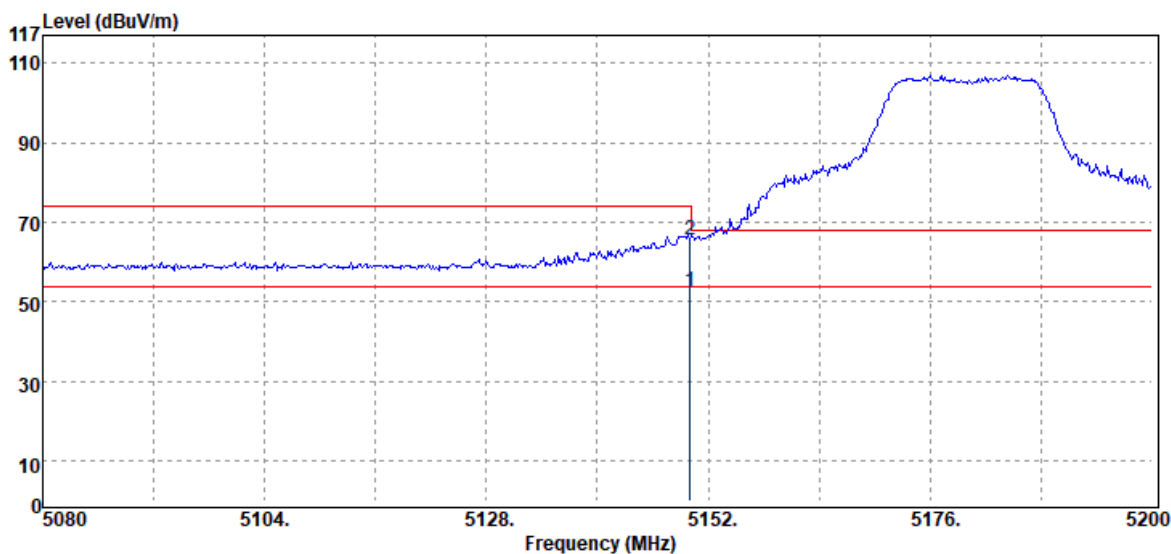
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11.7.3 Band edge falling to restricted band

Report Number :ER-2020-60011
Operation Mode :802.11a
Test Frequency :5180 MHz
Test Mode :Bandedge CH Low
EUT Pol :H Plane

Test Site :SAC III Chamber
Test Date :2020-07-27
Temp./Humi. :25.8/59
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
5150.00	Average	43.93	8.68	52.61	54.00	-1.39
5150.00	Peak	56.96	8.68	65.64	74.00	-8.36

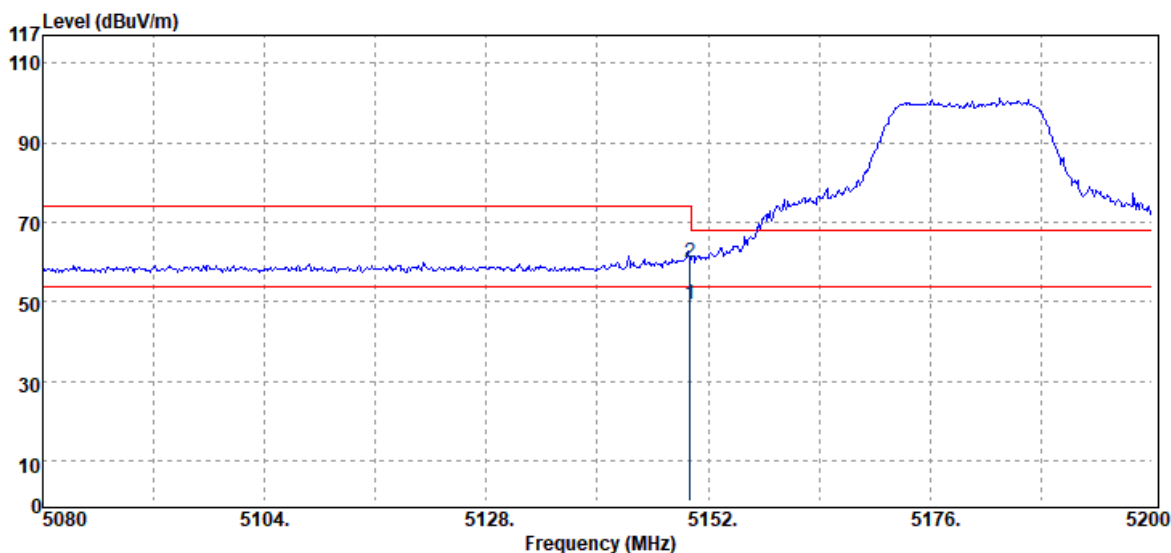
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Report Number :ER-2020-60011
 Operation Mode :802.11a
 Test Frequency :5180 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-27
 Temp./Humi. :25.8/59
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



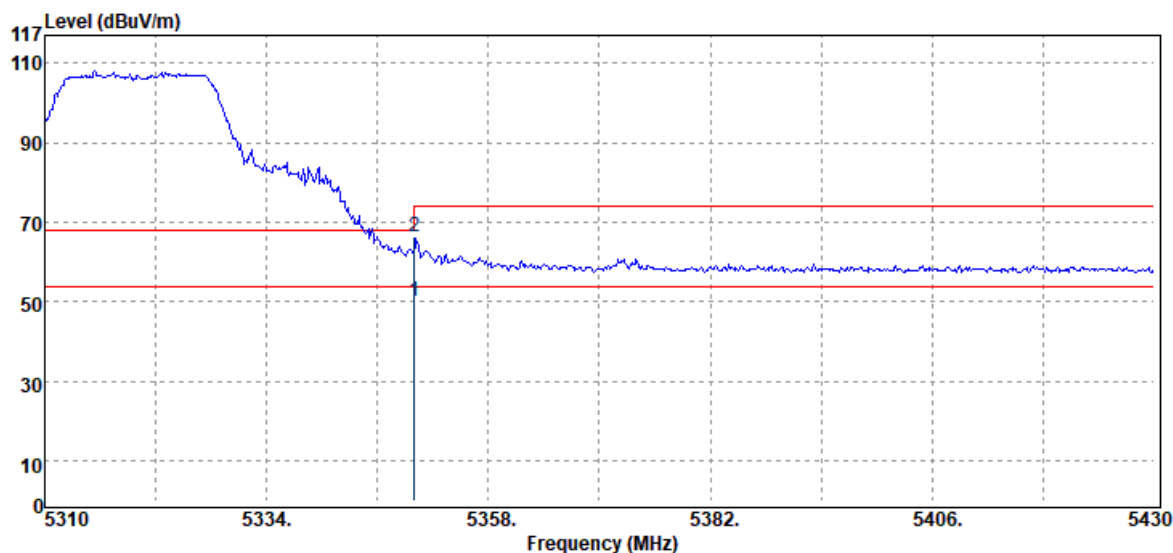
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	40.61	8.68	49.29	54.00	-4.71
5150.00	Peak	51.23	8.68	59.91	74.00	-14.09

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Report Number	:ER-2020-60011	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2020-07-27
Test Frequency	:5320 MHz	Temp./Humi.	:25.8/59
Test Mode	:Bandedge CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	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
5350.00	Average	42.23	8.12	50.35	54.00	-3.65
5350.00	Peak	58.15	8.12	66.27	74.00	-7.73

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Report Number :ER-2020-60011

Operation Mode :802.11a

Test Frequency :5320 MHz

Test Mode :Bandedge CH High

EUT Pol :H Plane

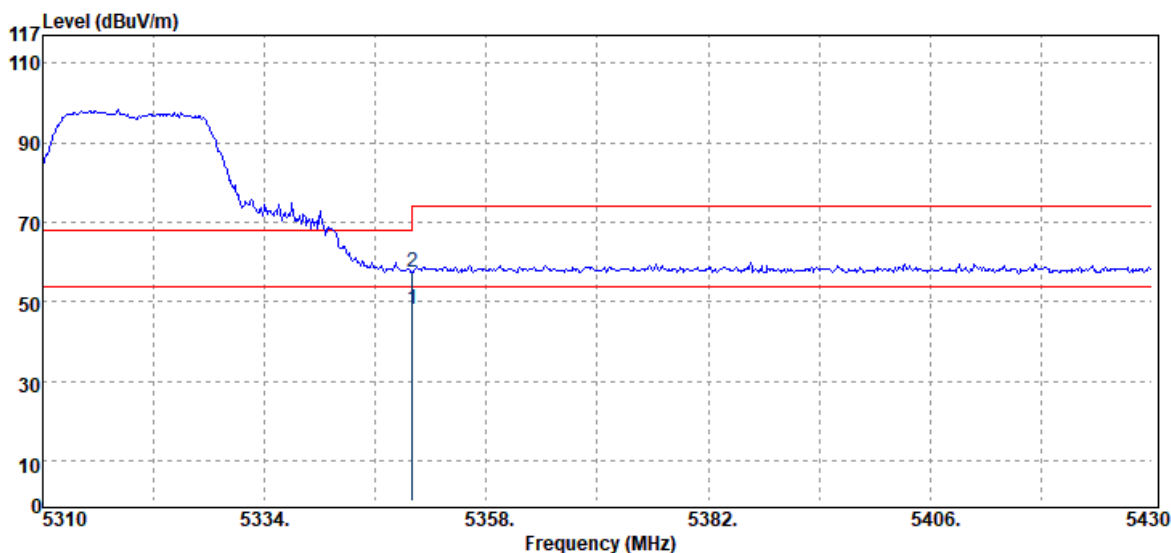
Test Site :SAC III Chamber

Test Date :2020-07-27

Temp./Humi. :25.8/59

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
5350.00	Average	39.91	8.12	48.03	54.00	-5.97
5350.00	Peak	49.55	8.12	57.67	74.00	-16.33

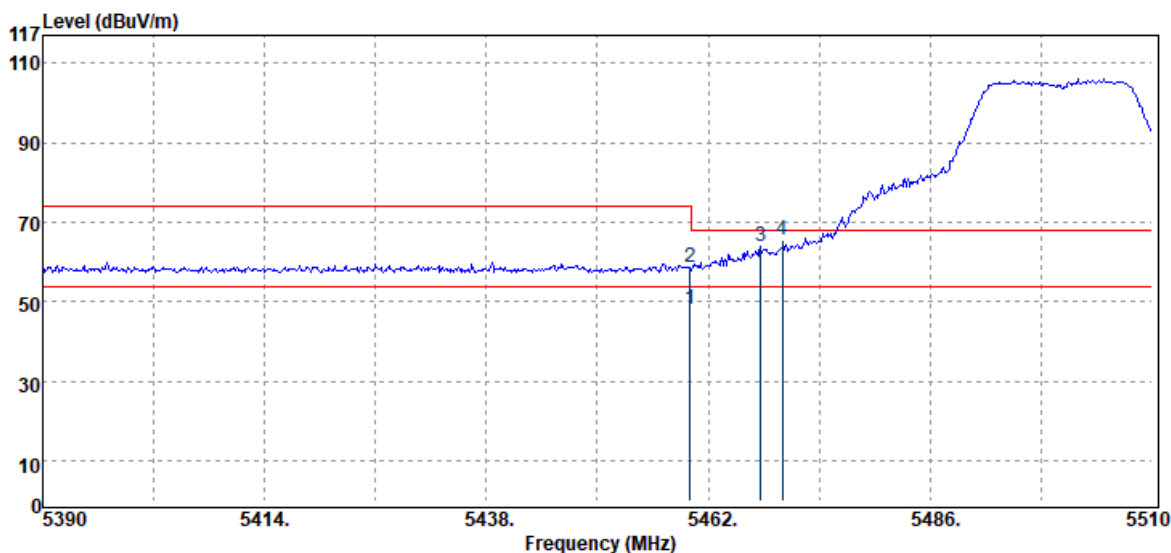
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Report Number :ER-2020-60011
Operation Mode :802.11a
Test Frequency :5500 MHz
Test Mode :Bandedge CH Low
EUT Pol :H Plane

Test Site :SAC III Chamber
Test Date :2020-07-27
Temp./Humi. :25.8/59
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
5460.00	Average	40.10	8.06	48.16	54.00	-5.84
5460.00	Peak	50.56	8.06	58.62	74.00	-15.38
5467.64	Peak	55.84	8.08	63.92	68.20	-4.28
5470.00	Peak	57.66	8.07	65.73	68.20	-2.47

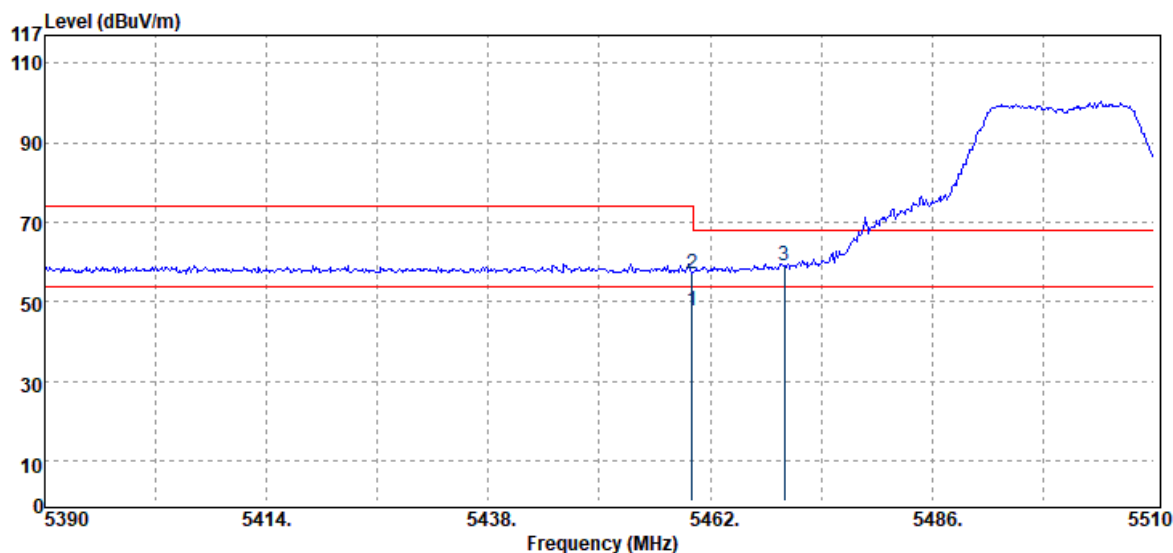
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Report Number :ER-2020-60011
 Operation Mode :802.11a
 Test Frequency :5500 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-27
 Temp./Humi. :25.8/59
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



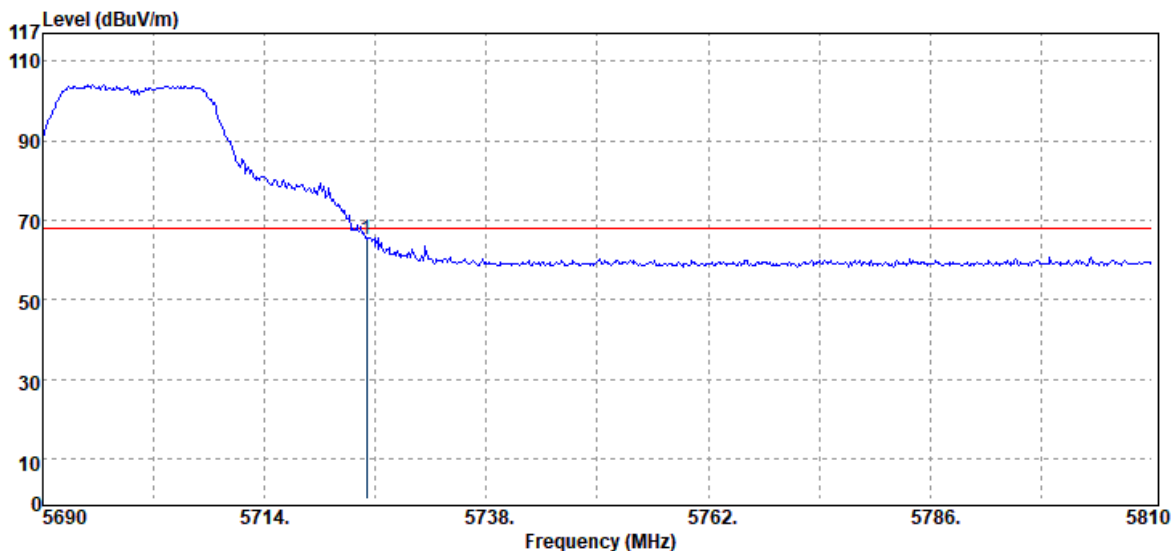
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	39.74	8.06	47.80	54.00	-6.20
5460.00	Peak	49.15	8.06	57.21	74.00	-16.79
5470.00	Peak	50.93	8.07	59.00	68.20	-9.20

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Report Number	:ER-2020-60011	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2020-07-27
Test Frequency	:5700 MHz	Temp./Humi.	:25.8/59
Test Mode	:Bandedge CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



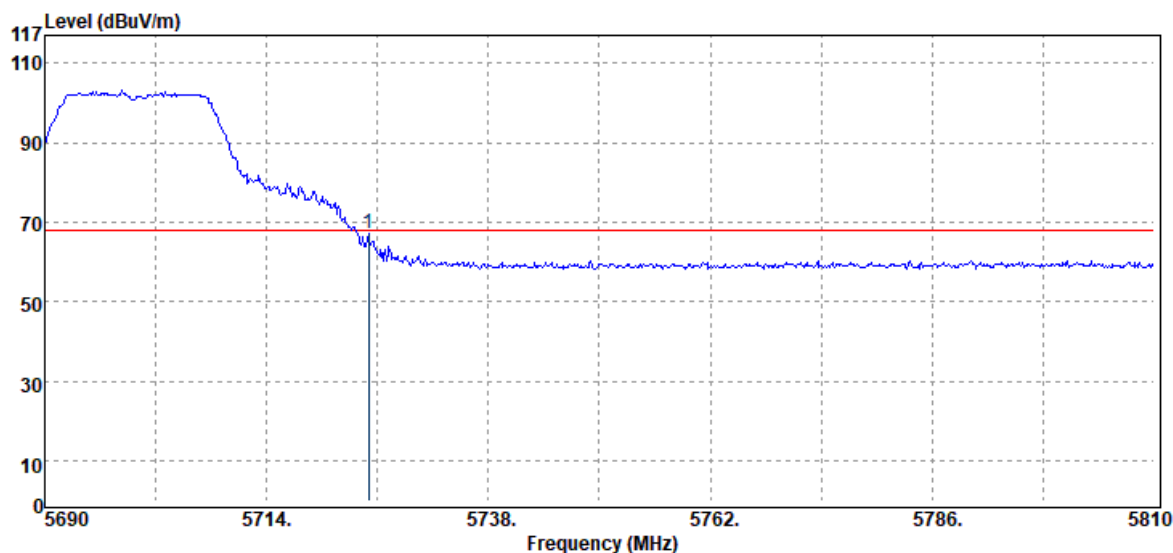
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	56.52	8.81	65.33	68.20	-2.87

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Report Number	:ER-2020-60011	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2020-07-27
Test Frequency	:5700 MHz	Temp./Humi.	:25.8/59
Test Mode	:Bandedge CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	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
5725.00	Peak	58.26	8.81	67.07	68.20	-1.13

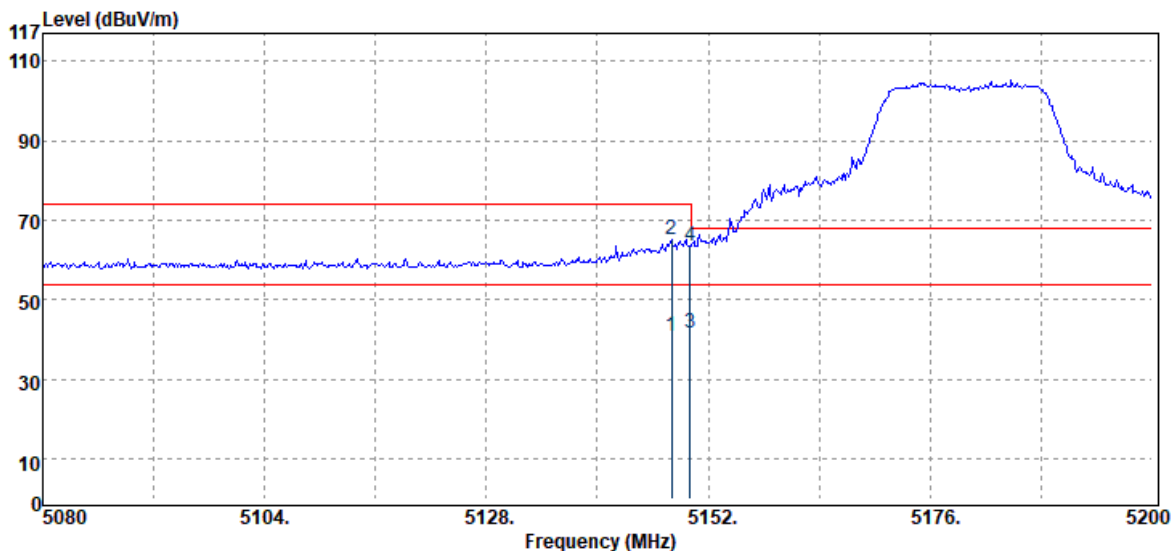
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Report Number :ER-2020-60011
 Operation Mode :802.11n20
 Test Frequency :5180 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-27
 Temp./Humi. :25.8/59
 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
5148.04	Average	32.37	8.68	41.05	54.00	-12.95
5148.04	Peak	56.42	8.68	65.10	74.00	-8.90
5150.00	Average	33.10	8.68	41.78	54.00	-12.22
5150.00	Peak	54.90	8.68	63.58	74.00	-10.42

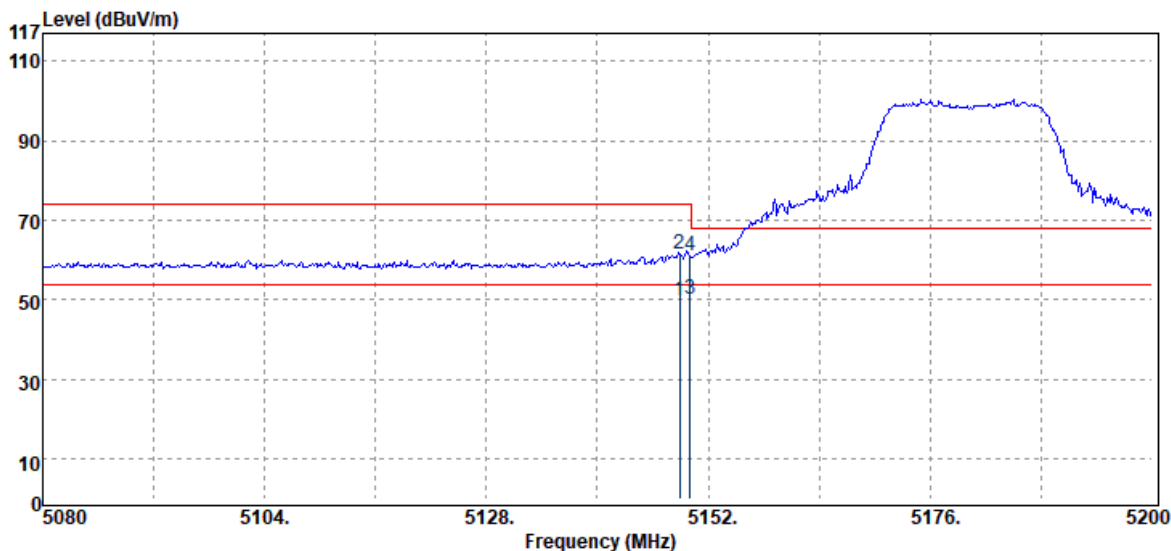
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Report Number :ER-2020-60011
 Operation Mode :802.11n20
 Test Frequency :5180 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-27
 Temp./Humi. :25.8/59
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



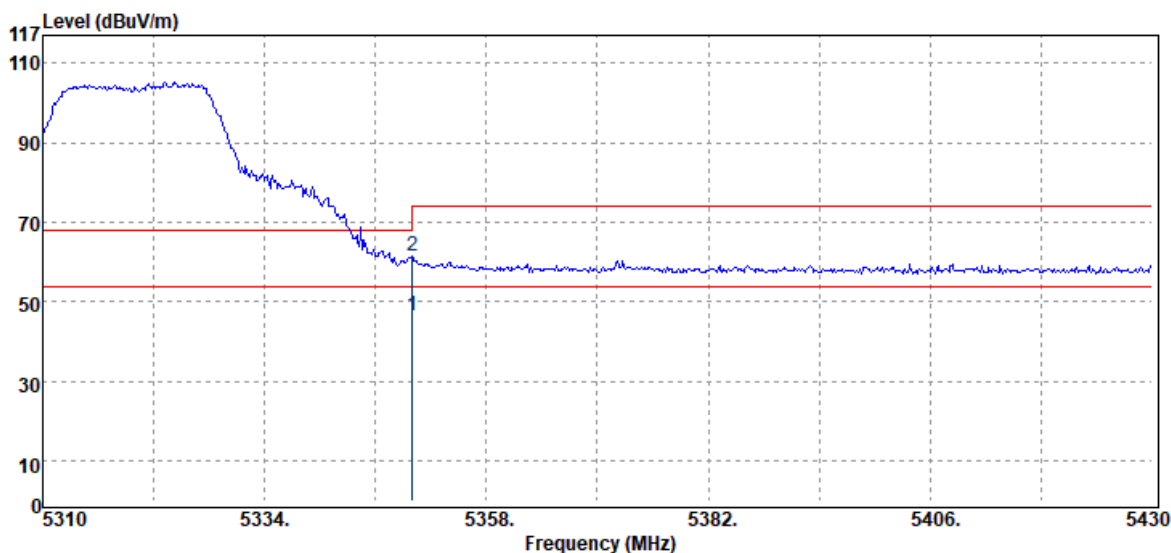
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5148.88	Average	40.93	8.68	49.61	54.00	-4.39
5148.88	Peak	53.03	8.68	61.71	74.00	-12.29
5150.00	Average	41.45	8.68	50.13	54.00	-3.87
5150.00	Peak	52.44	8.68	61.12	74.00	-12.88

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Report Number	:ER-2020-60011	Test Site	:SAC III Chamber
Operation Mode	:802.11n20	Test Date	:2020-07-27
Test Frequency	:5320 MHz	Temp./Humi.	:25.8/59
Test Mode	:Bandedge CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	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
5350.00	Average	38.60	8.12	46.72	54.00	-7.28
5350.00	Peak	53.59	8.12	61.71	74.00	-12.29

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Report Number :ER-2020-60011

Operation Mode :802.11n20

Test Frequency :5320 MHz

Test Mode :Bandedge CH High

EUT Pol :H Plane

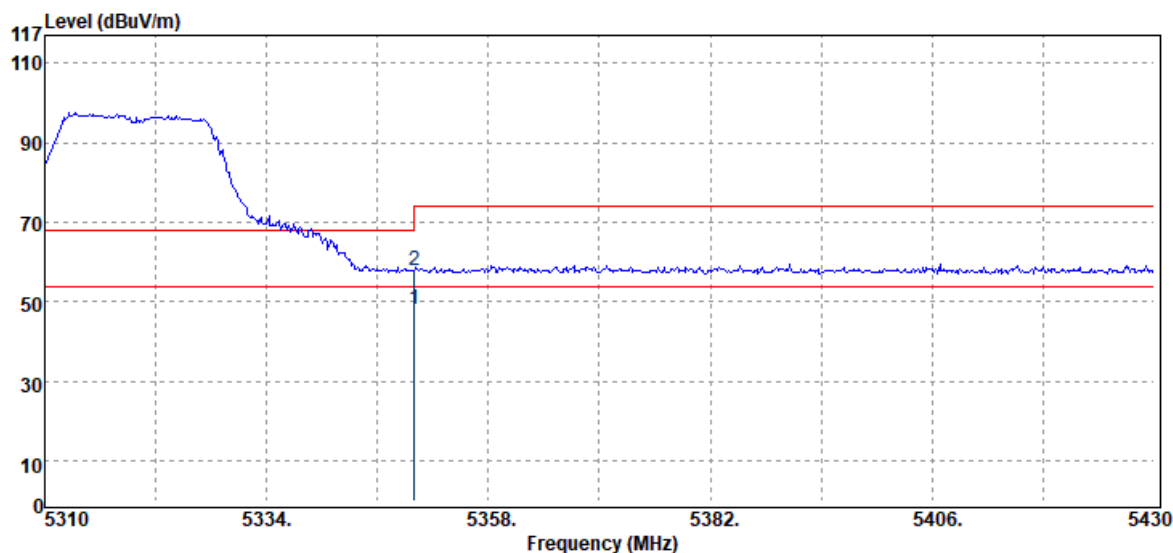
Test Site :SAC III Chamber

Test Date :2020-07-27

Temp./Humi. :25.8/59

Antenna Pol. :HORIZONTAL

Engineer :Ricky



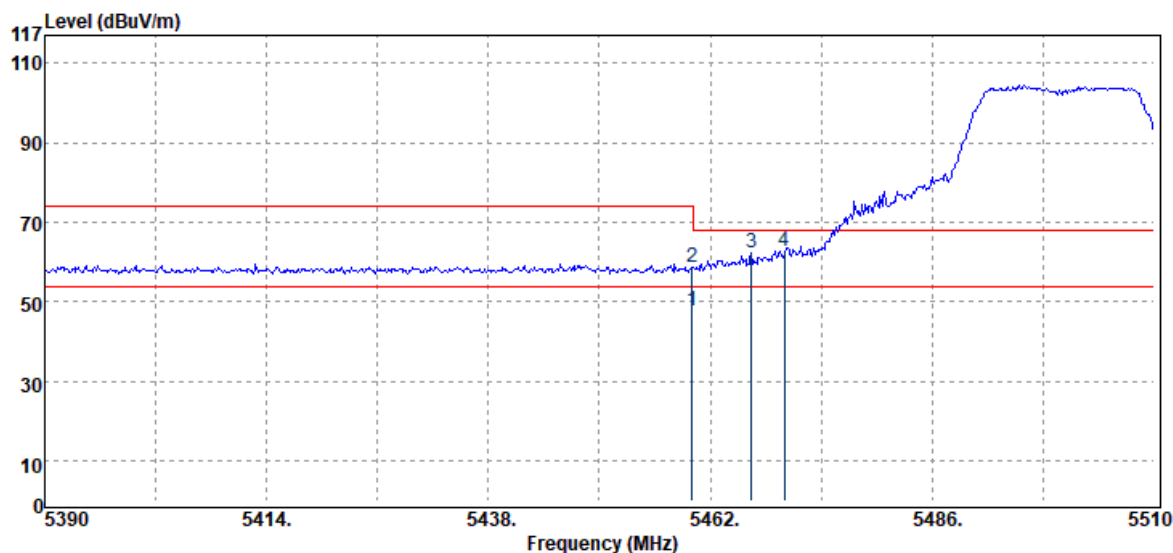
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	39.85	8.12	47.97	54.00	-6.03
5350.00	Peak	49.78	8.12	57.90	74.00	-16.10

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Report Number	:ER-2020-60011	Test Site	:SAC III Chamber
Operation Mode	:802.11n20	Test Date	:2020-07-27
Test Frequency	:5500 MHz	Temp./Humi.	:25.8/59
Test Mode	:Bandedge CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	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
5460.00	Average	39.89	8.06	47.95	54.00	-6.05
5460.00	Peak	50.48	8.06	58.54	74.00	-15.46
5466.44	Peak	54.35	8.08	62.43	68.20	-5.77
5470.00	Peak	54.80	8.07	62.87	68.20	-5.33

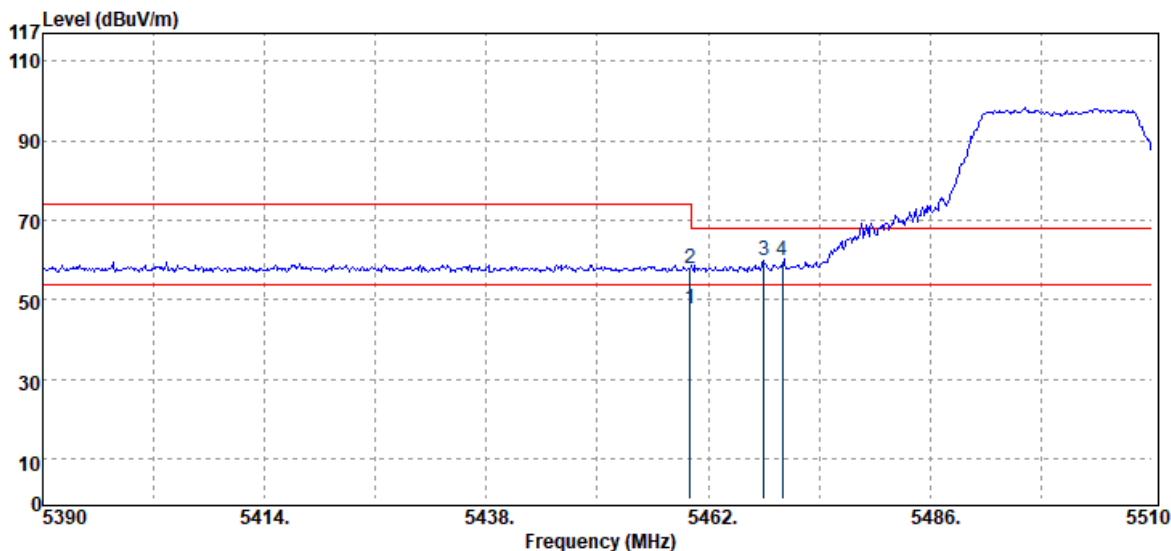
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Report Number :ER-2020-60011
 Operation Mode :802.11n20
 Test Frequency :5500 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-27
 Temp./Humi. :25.8/59
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



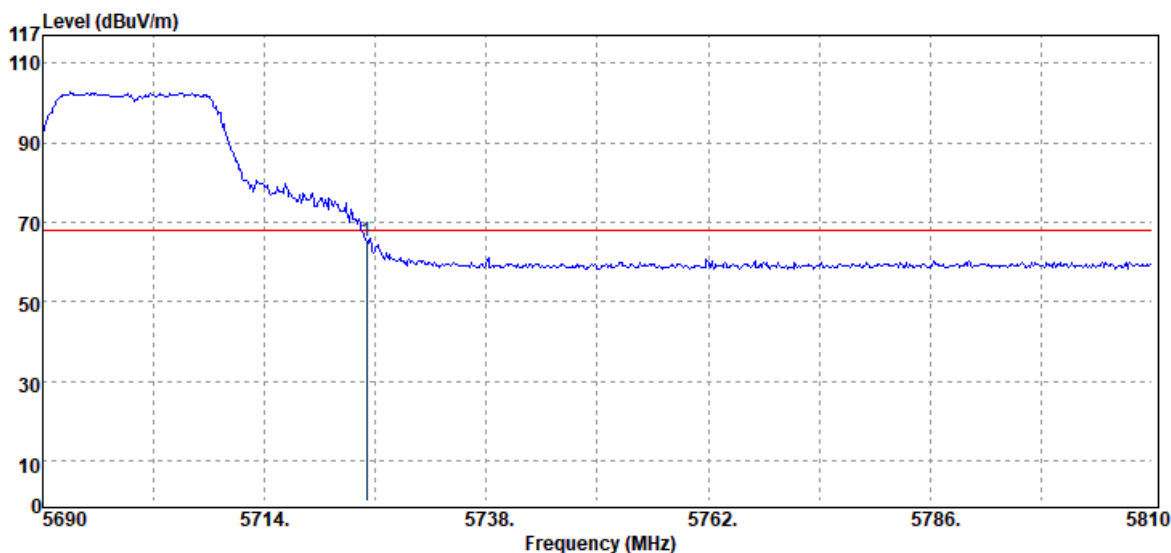
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	39.56	8.06	47.62	54.00	-6.38
5460.00	Peak	49.86	8.06	57.92	74.00	-16.08
5468.00	Peak	51.67	8.08	59.75	68.20	-8.45
5470.00	Peak	51.73	8.07	59.80	68.20	-8.40

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Report Number	:ER-2020-60011	Test Site	:SAC III Chamber
Operation Mode	:802.11n20	Test Date	:2020-07-27
Test Frequency	:5700 MHz	Temp./Humi.	:25.8/59
Test Mode	:Bandedge CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



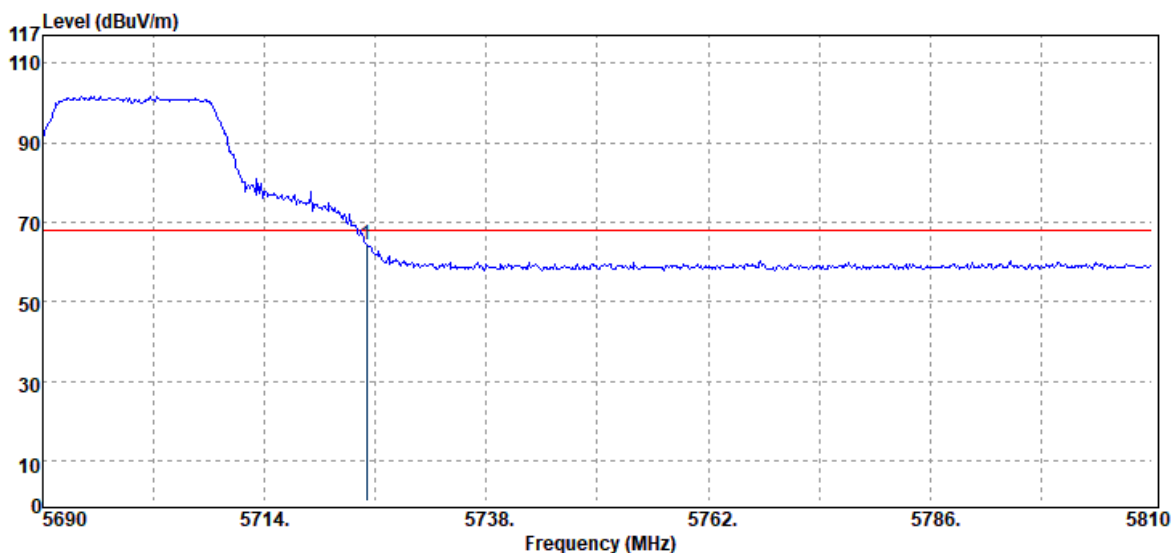
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	56.37	8.81	65.18	68.20	-3.02

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Report Number	:ER-2020-60011	Test Site	:SAC III Chamber
Operation Mode	:802.11n20	Test Date	:2020-07-27
Test Frequency	:5700 MHz	Temp./Humi.	:25.8/59
Test Mode	:Bandedge CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	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
5725.00	Peak	55.59	8.81	64.40	68.20	-3.80

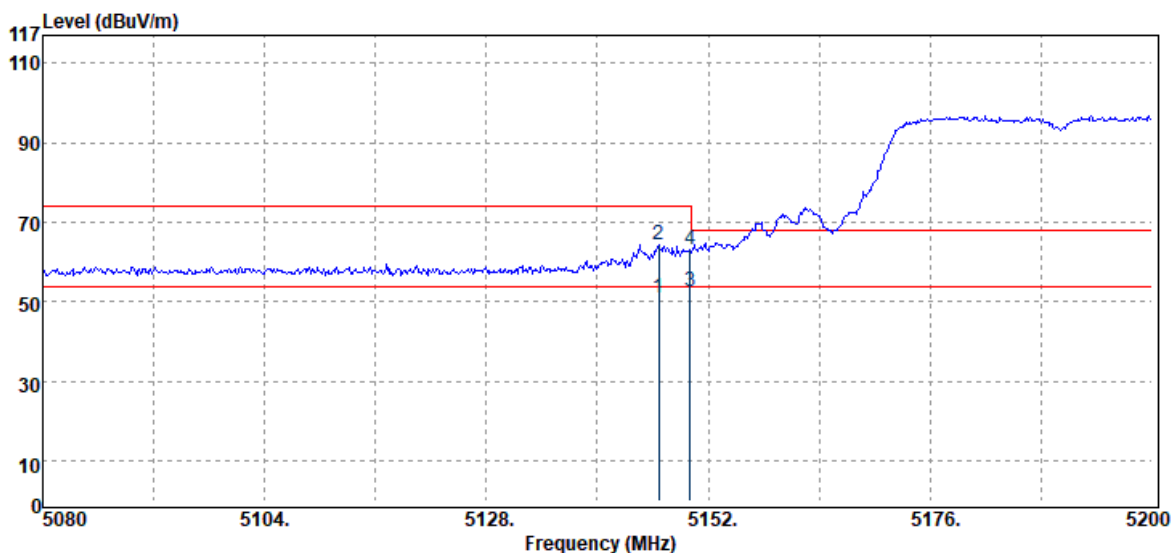
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Report Number :ER-2020-60011
 Operation Mode :802.11n40
 Test Frequency :5190 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-27
 Temp./Humi. :25.8/59
 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
5146.60	Average	42.13	8.69	50.82	54.00	-3.18
5146.60	Peak	55.54	8.69	64.23	74.00	-9.77
5150.00	Average	43.81	8.68	52.49	54.00	-1.51
5150.00	Peak	54.35	8.68	63.03	74.00	-10.97

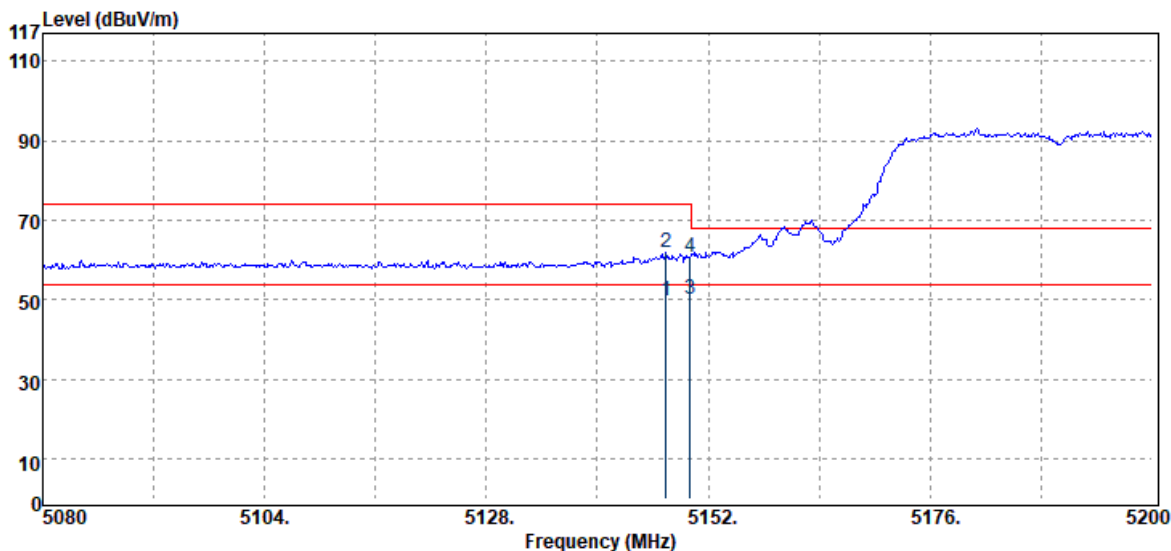
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Report Number :ER-2020-60011
 Operation Mode :802.11n40
 Test Frequency :5190 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-27
 Temp./Humi. :25.8/59
 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
5147.44	Average	40.97	8.69	49.66	54.00	-4.34
5147.44	Peak	53.06	8.69	61.75	74.00	-12.25
5150.00	Average	41.69	8.68	50.37	54.00	-3.63
5150.00	Peak	52.13	8.68	60.81	74.00	-13.19

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Report Number :ER-2020-60011

Test Site :SAC III Chamber

Operation Mode :802.11n40

Test Date :2020-07-27

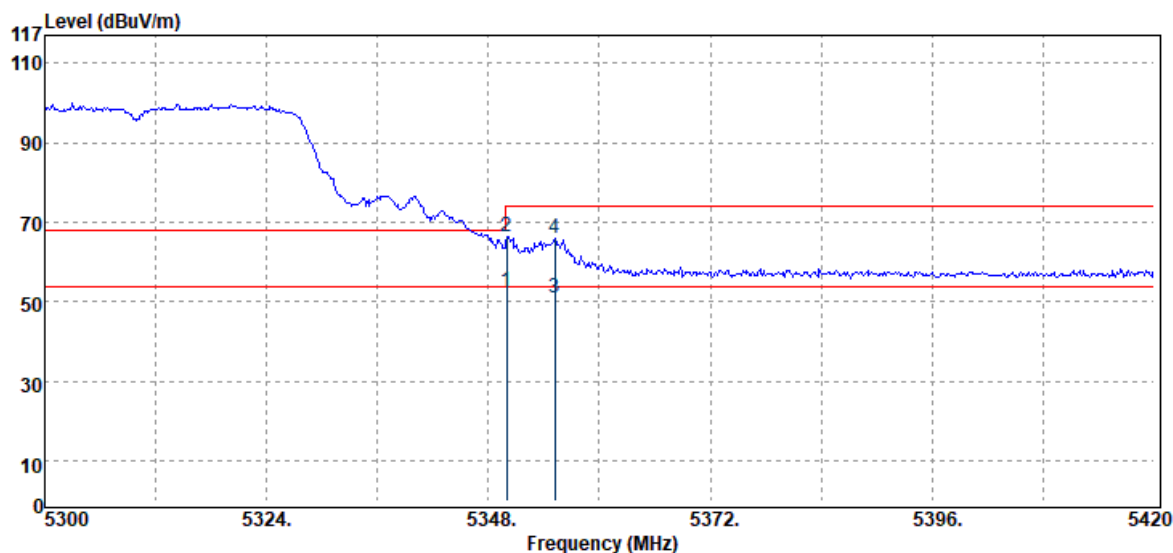
Test Frequency :5310 MHz

Temp./Humi. :25.8/59

Test Mode :Bandedge CH High

Antenna Pol. :VERTICAL

EUT Pol :H Plane

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
5350.00	Average	44.65	8.12	52.77	54.00	-1.23
5350.00	Peak	58.10	8.12	66.22	74.00	-7.78
5355.20	Average	42.78	8.12	50.90	54.00	-3.10
5355.20	Peak	57.86	8.12	65.98	74.00	-8.02

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Report Number :ER-2020-60011

Operation Mode :802.11n40

Test Frequency :5310 MHz

Test Mode :Bandedge CH High

EUT Pol :H Plane

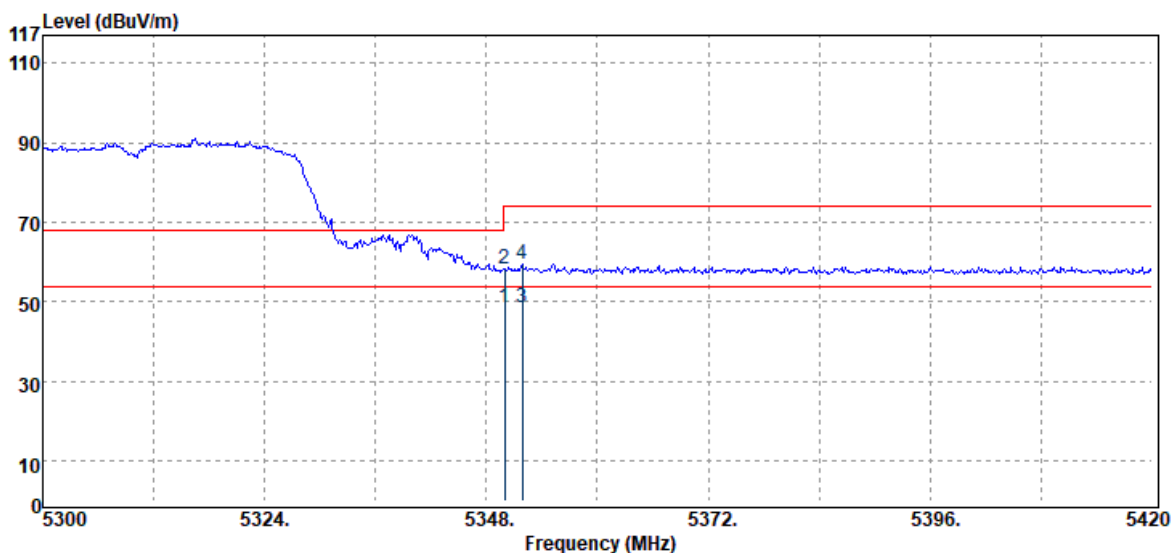
Test Site :SAC III Chamber

Test Date :2020-07-27

Temp./Humi. :25.8/59

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
5350.00	Average	40.53	8.12	48.65	54.00	-5.35
5350.00	Peak	49.99	8.12	58.11	74.00	-15.89
5351.84	Average	40.34	8.13	48.47	54.00	-5.53
5351.84	Peak	51.46	8.13	59.59	74.00	-14.41

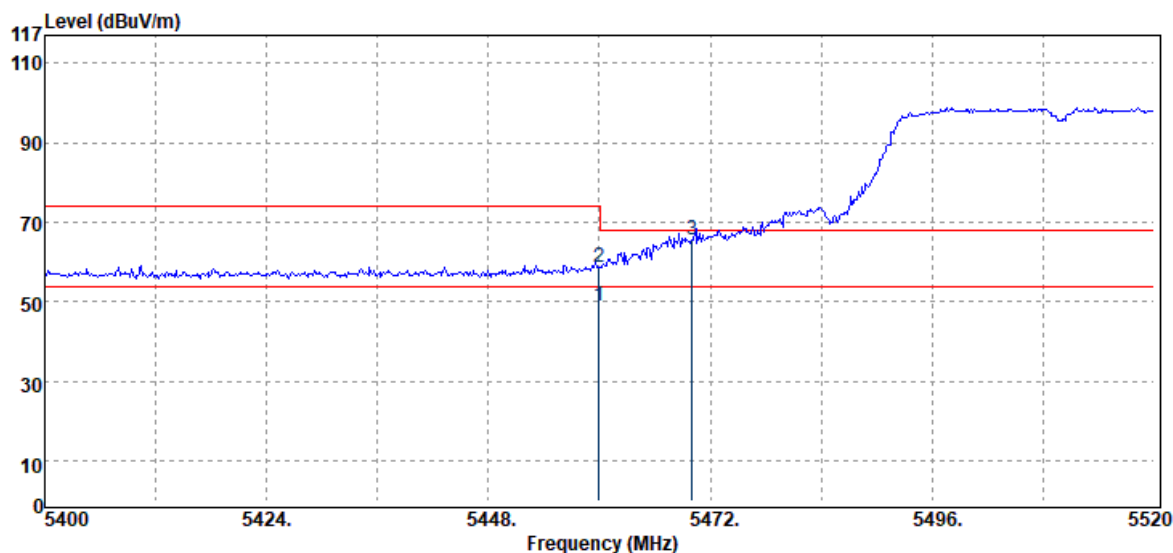
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Report Number :ER-2020-60011
 Operation Mode :802.11n40
 Test Frequency :5510 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-27
 Temp./Humi. :25.8/59
 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
5460.00	Average	41.11	8.06	49.17	54.00	-4.83
5460.00	Peak	50.70	8.06	58.76	74.00	-15.24
5470.00	Peak	57.40	8.07	65.47	68.20	-2.73

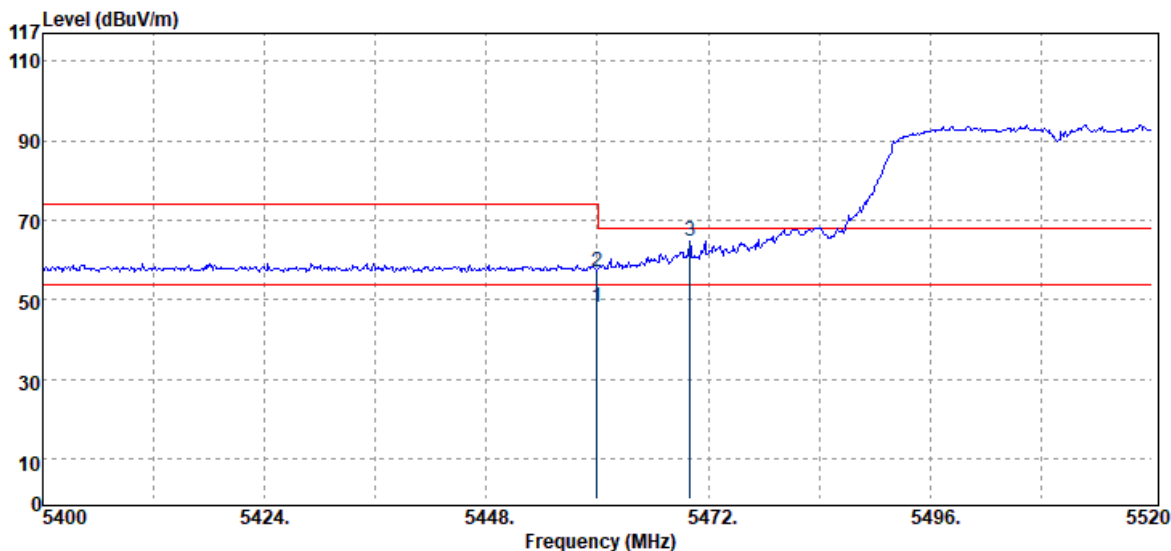
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Report Number :ER-2020-60011
 Operation Mode :802.11n40
 Test Frequency :5510 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-07-27
 Temp./Humi. :25.8/59
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



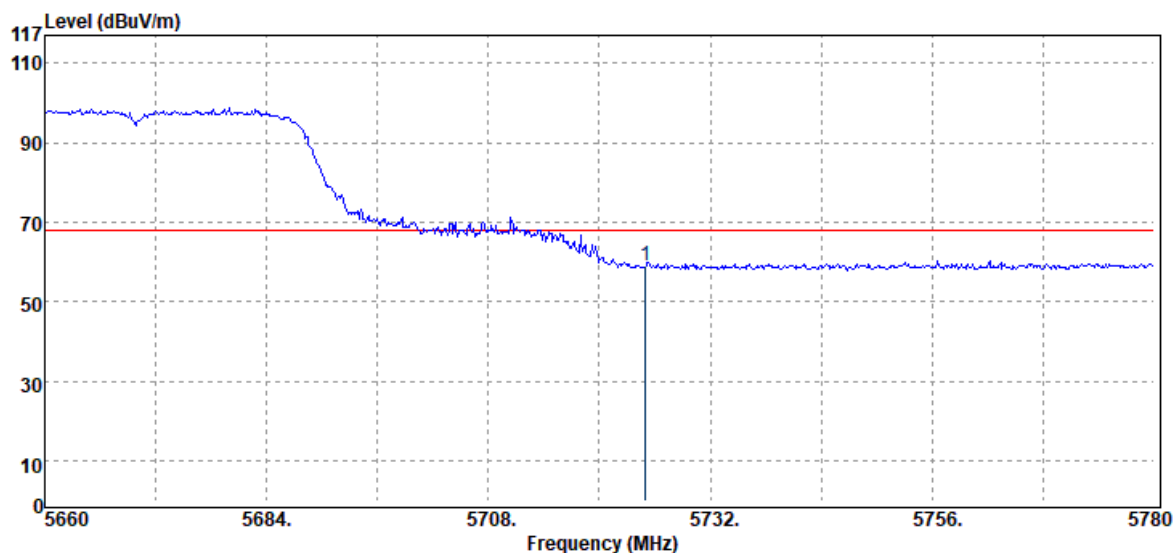
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	40.23	8.06	48.29	54.00	-5.71
5460.00	Peak	49.22	8.06	57.28	74.00	-16.72
5470.00	Peak	56.81	8.07	64.88	68.20	-3.32

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Report Number	:ER-2020-60011	Test Site	:SAC III Chamber
Operation Mode	:802.11n40	Test Date	:2020-07-27
Test Frequency	:5670 MHz	Temp./Humi.	:25.8/59
Test Mode	:Bandedge CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	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
5725.00	Peak	50.16	8.81	58.97	68.20	-9.23

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Report Number :ER-2020-60011

Operation Mode :802.11n40

Test Frequency :5670 MHz

Test Mode :Bandedge CH High

EUT Pol :H Plane

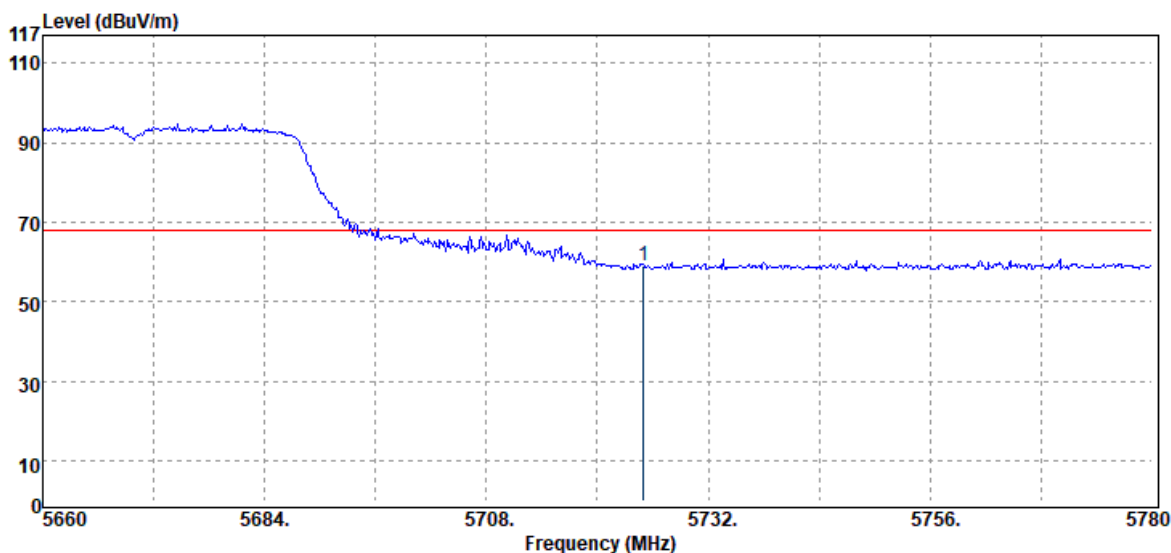
Test Site :SAC III Chamber

Test Date :2020-07-27

Temp./Humi. :25.8/59

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
5725.00	Peak	50.30	8.81	59.11	68.20	-9.09

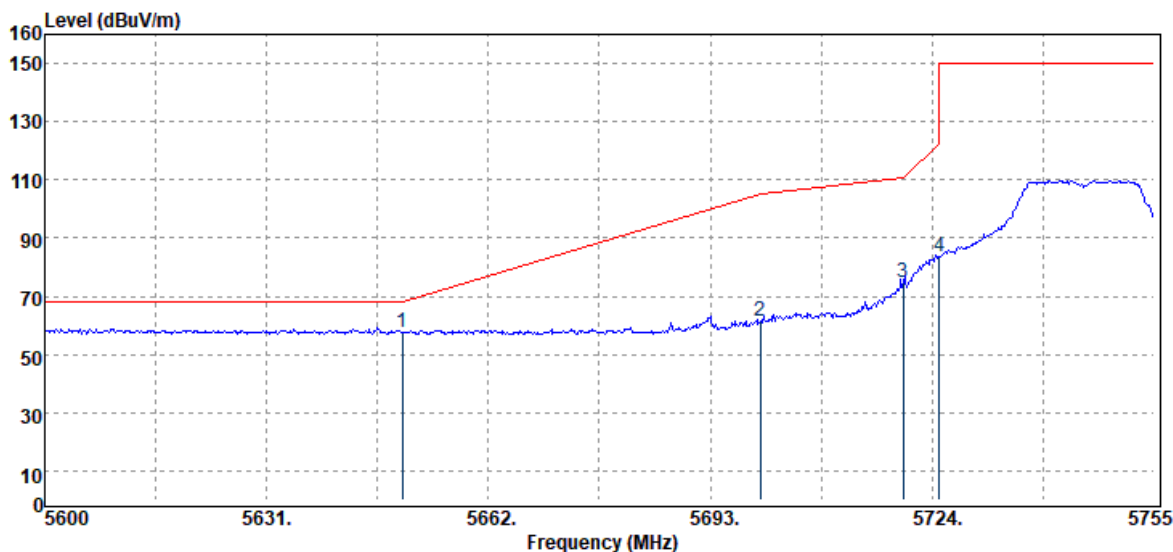
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For U-NII 3

Report Number	:ER-2020-C0058	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2021-06-15
Test Frequency	:5745 MHz	Temp./Humi.	:26.1/56
Test Mode	:Bandedge CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	49.32	8.08	57.40	68.20	-10.80
5700.00	Peak	53.39	8.02	61.41	105.20	-43.79
5720.00	Peak	66.83	8.10	74.93	110.80	-35.87
5725.00	Peak	75.39	8.12	83.51	122.20	-38.69

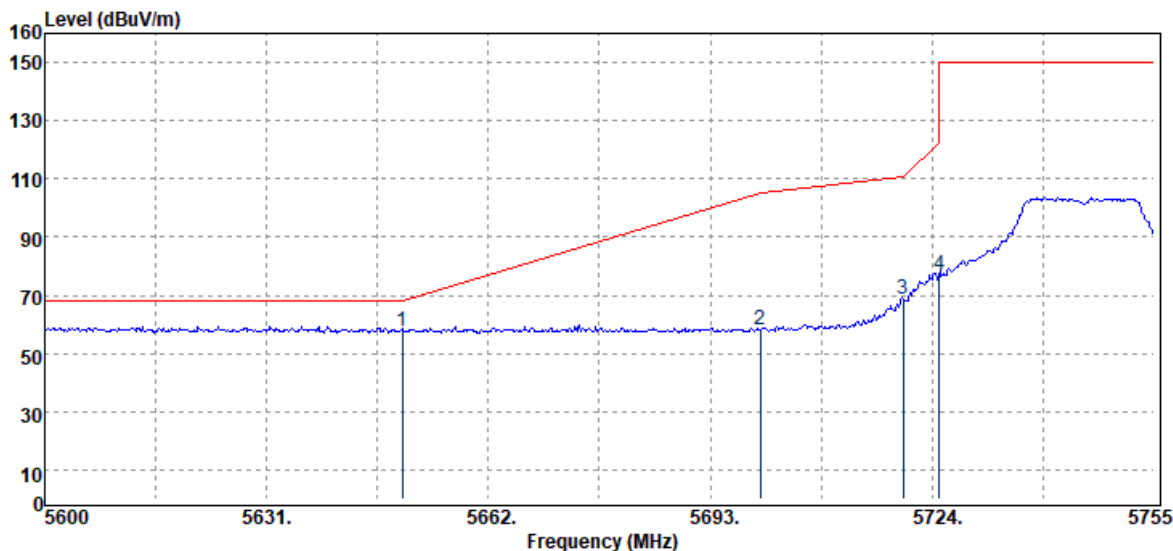
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Report Number :ER-2020-C0058
 Operation Mode :802.11a
 Test Frequency :5745 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-06-15
 Temp./Humi. :26.1/56
 Antenna Pol. :HORIZONTAL
 Engineer :GN Lin



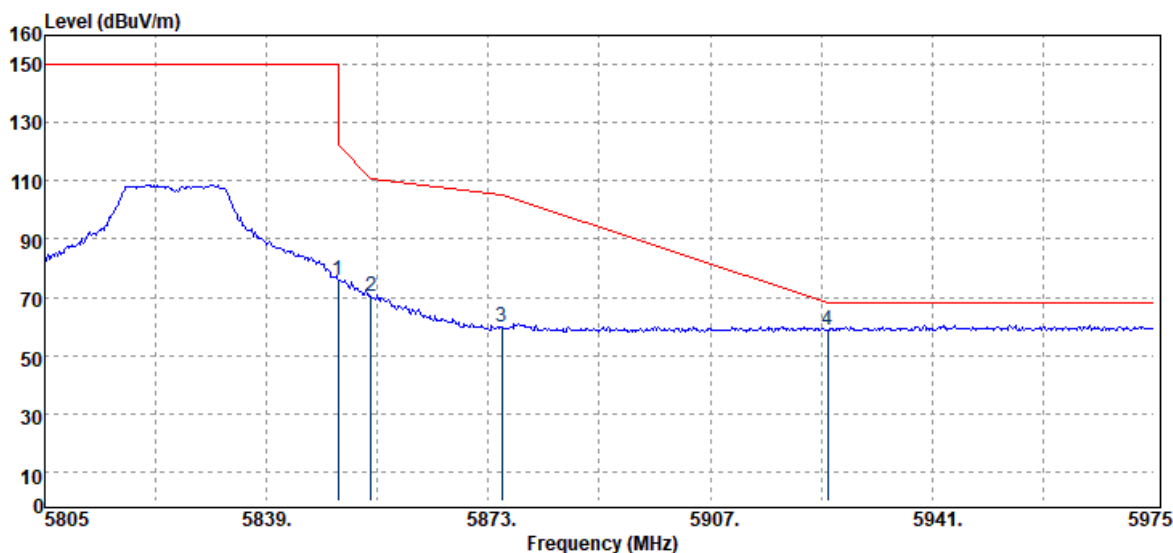
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	49.43	8.08	57.51	68.20	-10.69
5700.00	Peak	50.02	8.02	58.04	105.20	-47.16
5720.00	Peak	60.58	8.10	68.68	110.80	-42.12
5725.00	Peak	68.72	8.12	76.84	122.20	-45.36

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Report Number	:ER-2020-C0058	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2021-06-15
Test Frequency	:5825 MHz	Temp./Humi.	:26.1/56
Test Mode	:Bandedge CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	66.96	9.02	75.98	122.20	-46.22
5855.00	Peak	61.31	9.07	70.38	110.80	-40.42
5875.00	Peak	50.52	9.27	59.79	105.20	-45.41
5925.00	Peak	48.99	9.70	58.69	68.20	-9.51

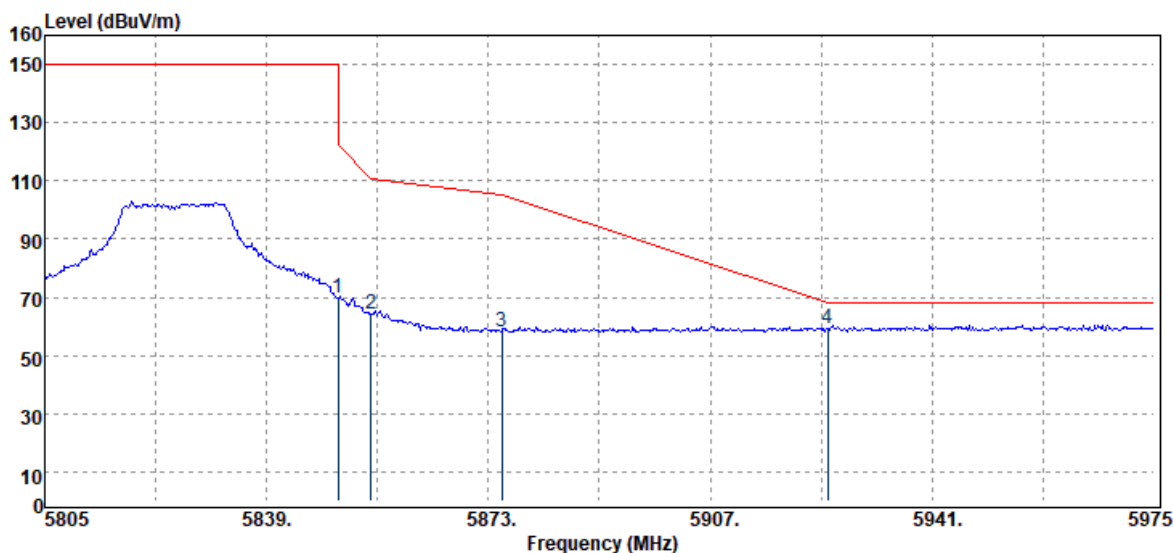
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Report Number :ER-2020-C0058
 Operation Mode :802.11a
 Test Frequency :5825 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-06-15
 Temp./Humi. :26.1/56
 Antenna Pol. :HORIZONTAL
 Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	60.63	9.02	69.65	122.20	-52.55
5855.00	Peak	55.04	9.07	64.11	110.80	-46.69
5875.00	Peak	49.05	9.27	58.32	105.20	-46.88
5925.00	Peak	49.56	9.70	59.26	68.20	-8.94

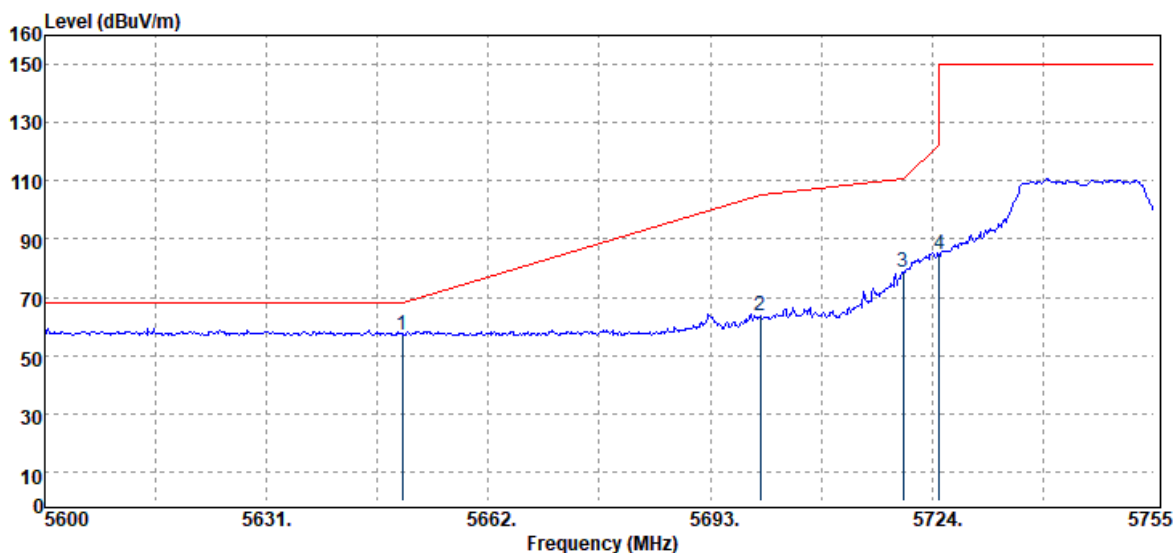
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Report Number :ER-2020-C0058
 Operation Mode :802.11n20
 Test Frequency :5745 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-06-15
 Temp./Humi. :26.1/56
 Antenna Pol. :VERTICAL
 Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	49.09	8.08	57.17	68.20	-11.03
5700.00	Peak	55.69	8.02	63.71	105.20	-41.49
5720.00	Peak	70.64	8.10	78.74	110.80	-32.06
5725.00	Peak	76.61	8.12	84.73	122.20	-37.47

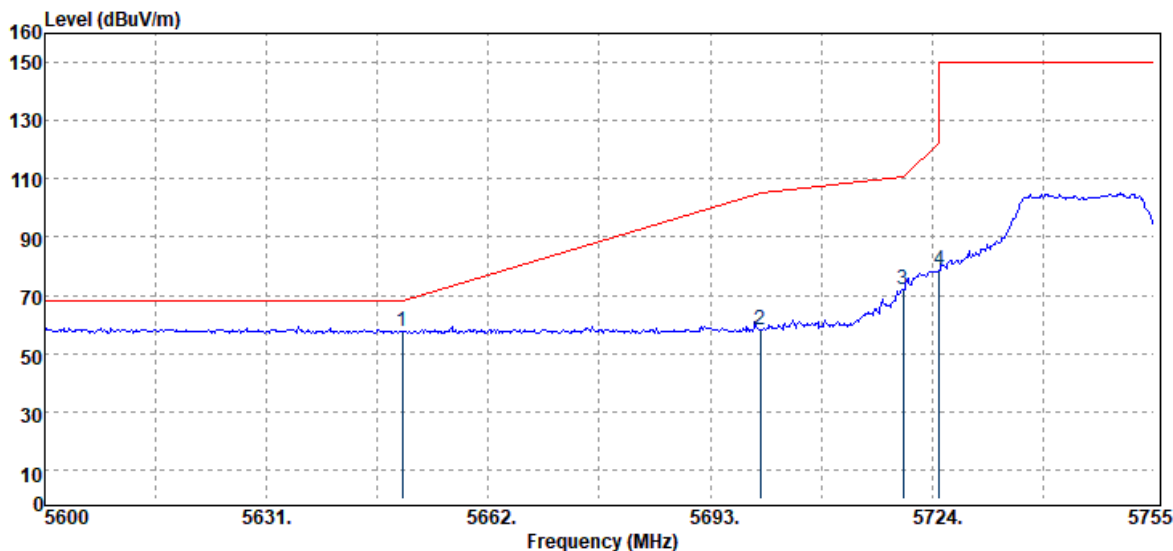
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Report Number :ER-2020-C0058
 Operation Mode :802.11n20
 Test Frequency :5745 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-06-15
 Temp./Humi. :26.1/56
 Antenna Pol. :HORIZONTAL
 Engineer :GN Lin



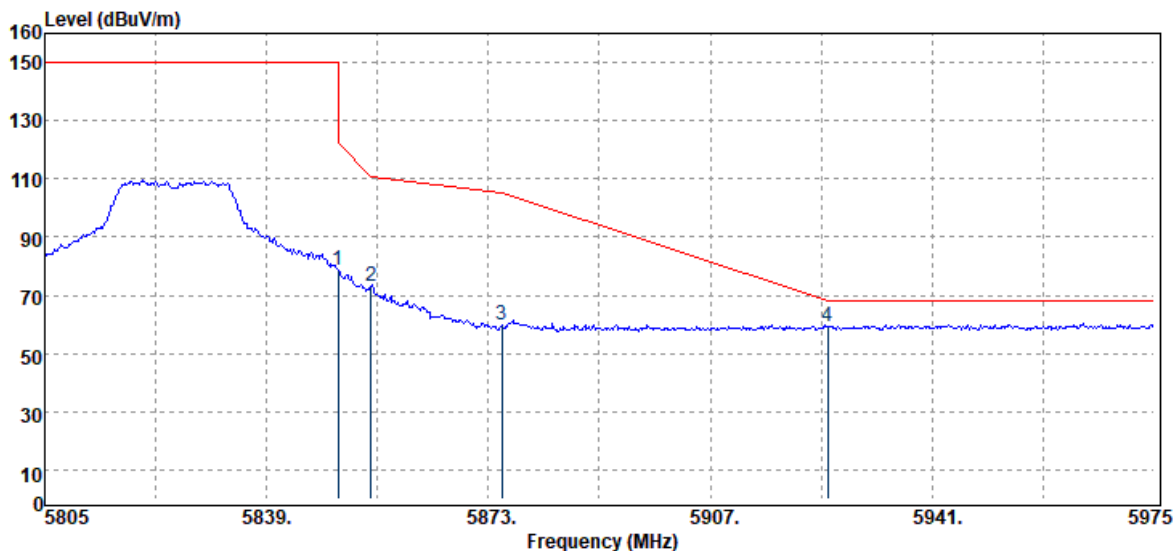
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	49.48	8.08	57.56	68.20	-10.64
5700.00	Peak	49.92	8.02	57.94	105.20	-47.26
5720.00	Peak	63.88	8.10	71.98	110.80	-38.82
5725.00	Peak	70.24	8.12	78.36	122.20	-43.84

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Report Number	:ER-2020-C0058	Test Site	:SAC III Chamber
Operation Mode	:802.11n20	Test Date	:2021-06-15
Test Frequency	:5825 MHz	Temp./Humi.	:26.1/56
Test Mode	:Bandedge CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:GN Lin



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
5850.00	Peak	69.56	9.02	78.58	122.20	-43.62
5855.00	Peak	63.99	9.07	73.06	110.80	-37.74
5875.00	Peak	50.74	9.27	60.01	105.20	-45.19
5925.00	Peak	49.32	9.70	59.02	68.20	-9.18

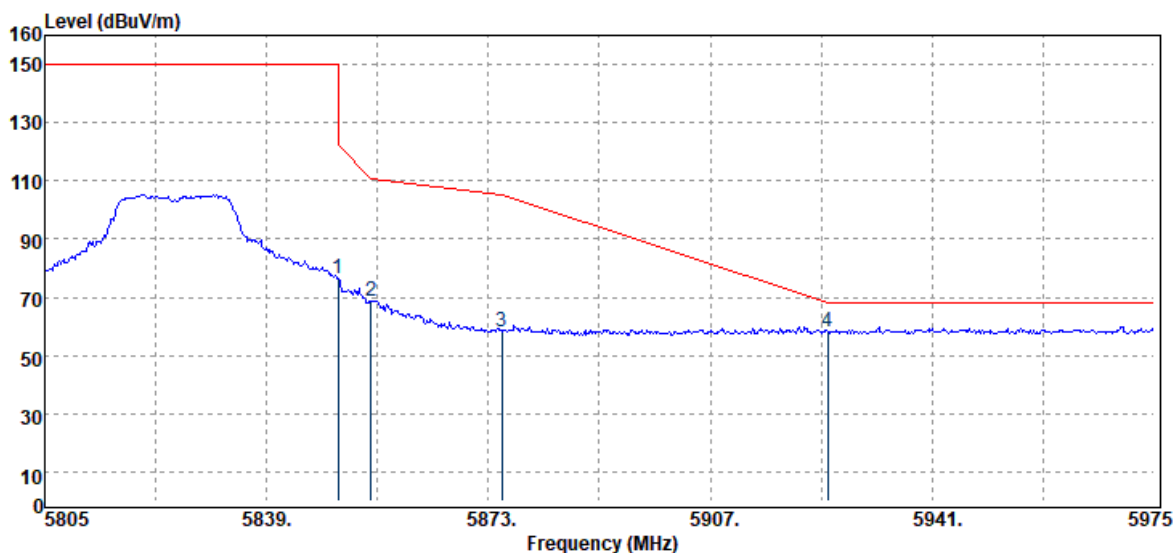
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Report Number :ER-2020-C0058
 Operation Mode :802.11n20
 Test Frequency :5825 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-06-15
 Temp./Humi. :26.1/56
 Antenna Pol. :HORIZONTAL
 Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	67.38	9.02	76.40	122.20	-45.80
5855.00	Peak	59.53	9.07	68.60	110.80	-42.20
5875.00	Peak	49.12	9.27	58.39	105.20	-46.81
5925.00	Peak	48.56	9.70	58.26	68.20	-9.94

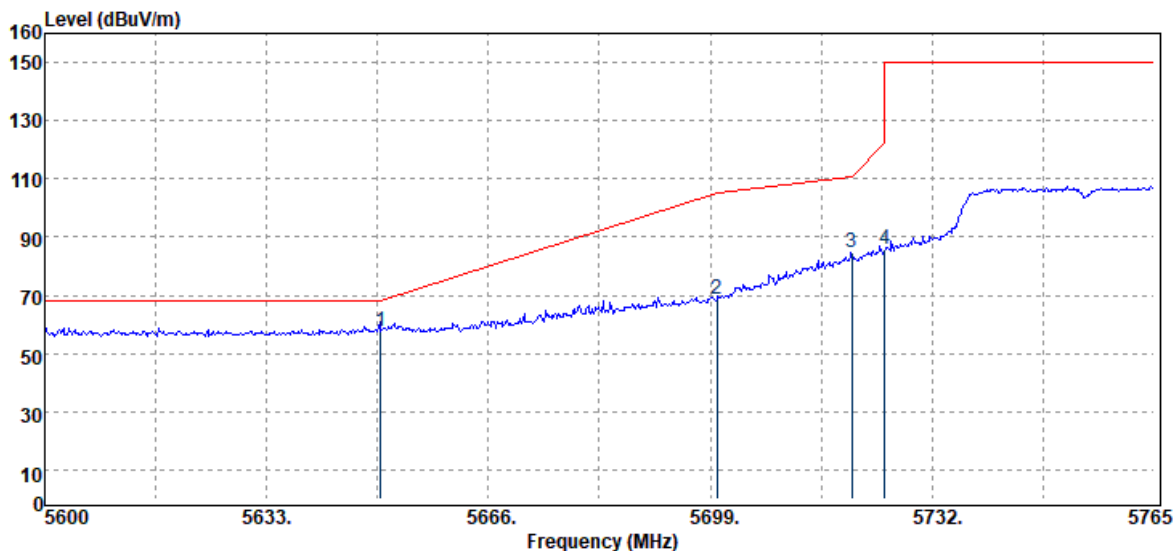
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Report Number :ER-2020-C0058
 Operation Mode :802.11n40
 Test Frequency :5755 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-06-15
 Temp./Humi. :26.1/56
 Antenna Pol. :VERTICAL
 Engineer :GN Lin



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
5650.00	Peak	49.26	8.08	57.34	68.20	-10.86
5700.00	Peak	60.90	8.02	68.92	105.20	-36.28
5720.00	Peak	76.77	8.10	84.87	110.80	-25.93
5725.00	Peak	77.95	8.12	86.07	122.20	-36.13

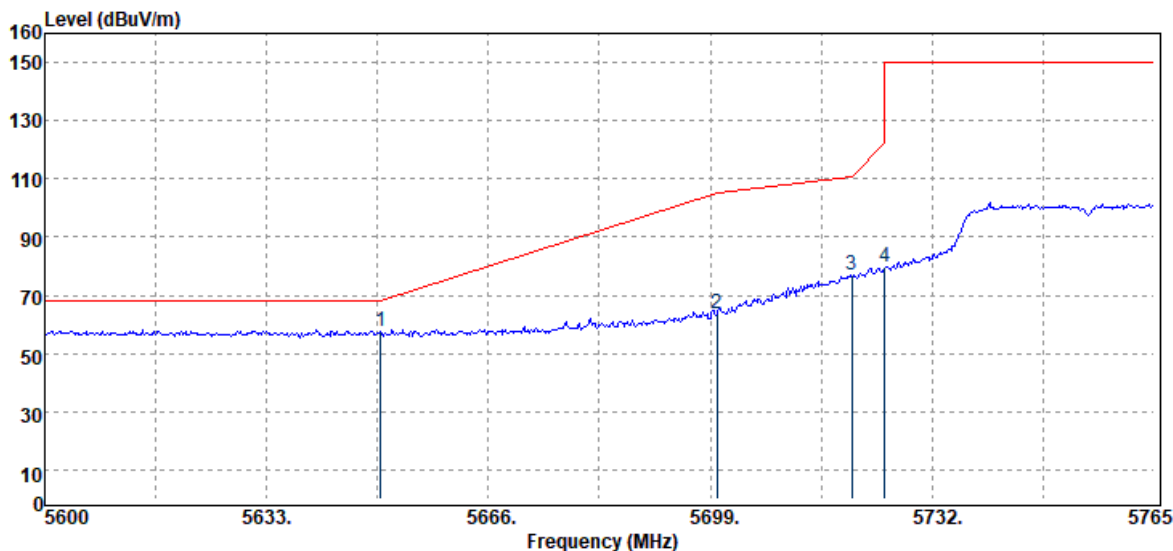
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Report Number :ER-2020-C0058
 Operation Mode :802.11n40
 Test Frequency :5755 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-06-15
 Temp./Humi. :26.1/56
 Antenna Pol. :HORIZONTAL
 Engineer :GN Lin



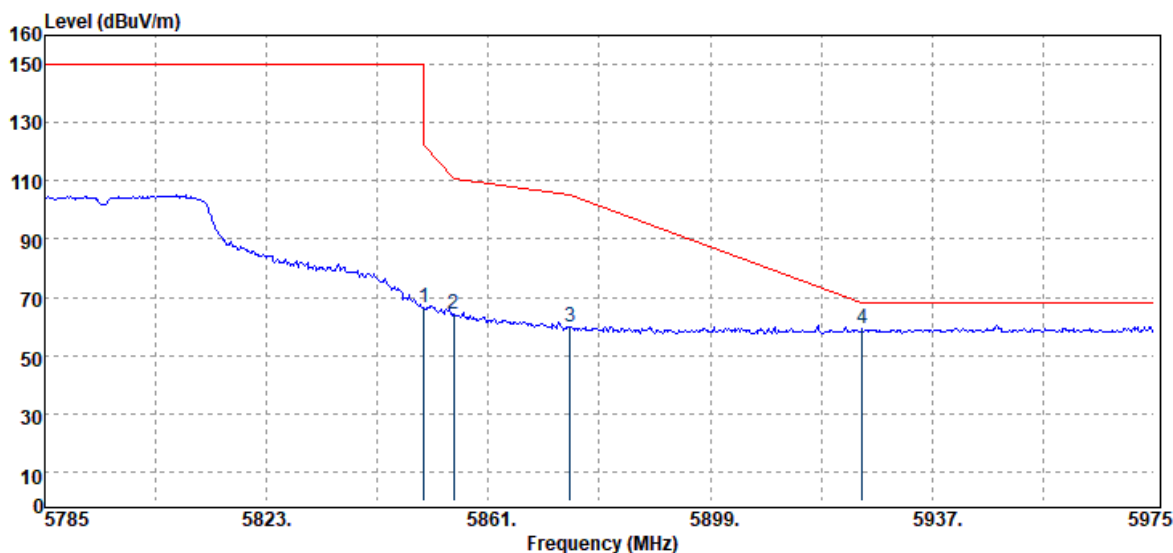
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	49.69	8.08	57.77	68.20	-10.43
5700.00	Peak	55.39	8.02	63.41	105.20	-41.79
5720.00	Peak	68.74	8.10	76.84	110.80	-33.96
5725.00	Peak	71.49	8.12	79.61	122.20	-42.59

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Report Number	:ER-2020-C0058	Test Site	:SAC III Chamber
Operation Mode	:802.11n40	Test Date	:2021-06-15
Test Frequency	:5795 MHz	Temp./Humi.	:26.1/56
Test Mode	:Bandedge CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:GN Lin



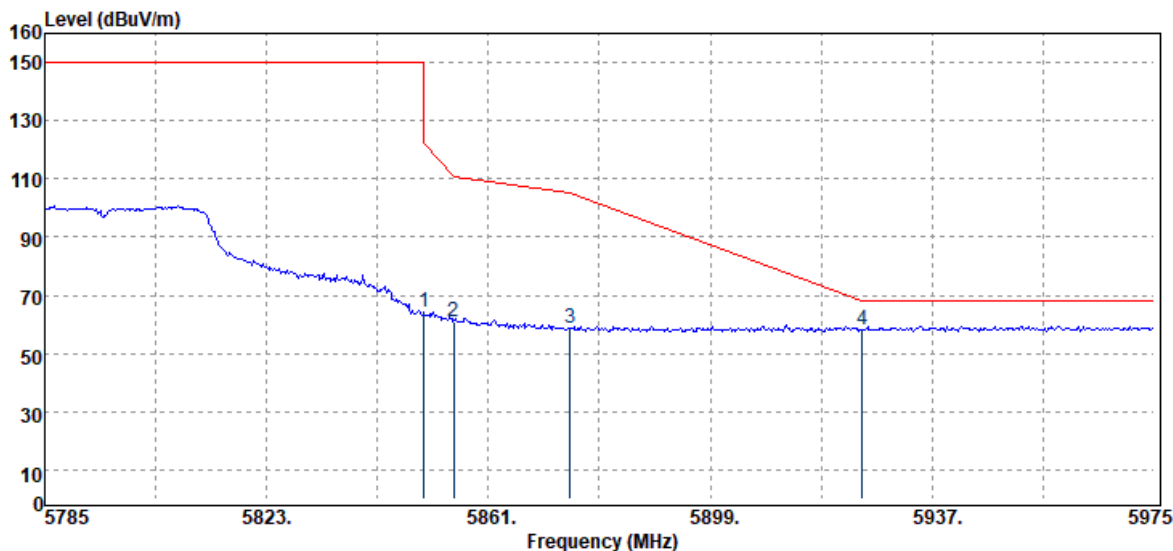
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	57.21	9.02	66.23	122.20	-55.97
5855.00	Peak	55.32	9.07	64.39	110.80	-46.41
5875.00	Peak	50.56	9.27	59.83	105.20	-45.37
5925.00	Peak	49.53	9.70	59.23	68.20	-8.97

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Report Number	:ER-2020-C0058	Test Site	:SAC III Chamber
Operation Mode	:802.11n40	Test Date	:2021-06-15
Test Frequency	:5795 MHz	Temp./Humi.	:26.1/56
Test Mode	:Bandedge CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	54.95	9.02	63.97	122.20	-58.23
5855.00	Peak	52.08	9.07	61.15	110.80	-49.65
5875.00	Peak	49.17	9.27	58.44	105.20	-46.76
5925.00	Peak	48.57	9.70	58.27	68.20	-9.93

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12 TRANSMISSION IN THE ABSENCE OF DATA

12.1 Standard Applicable

According to §15.407(c)

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

12.2 Result

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

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13 ANTENNA REQUIREMENT

13.1 Standard Applicable

According to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

According to §15.407, If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

13.2 Antenna Connected Construction

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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