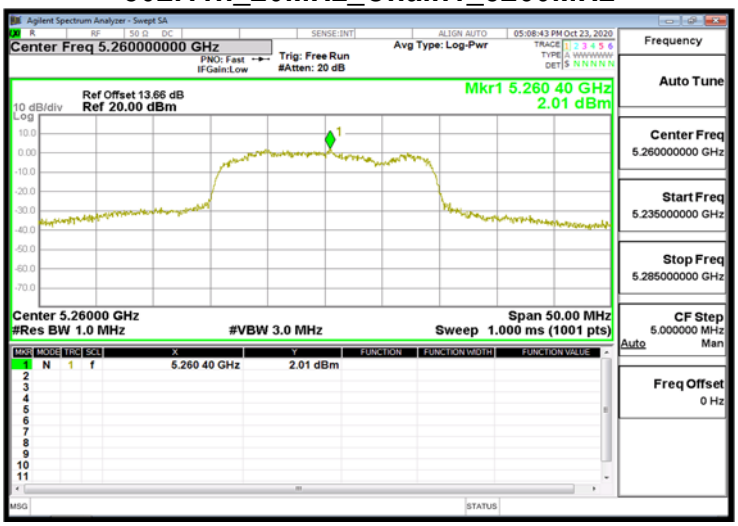
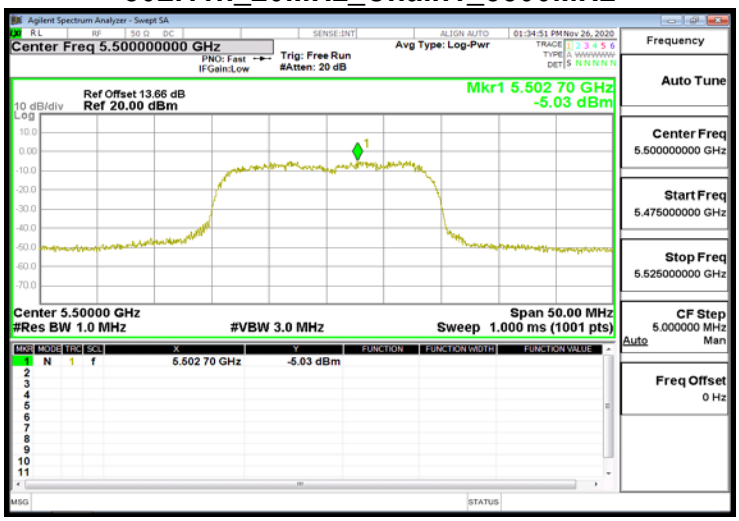
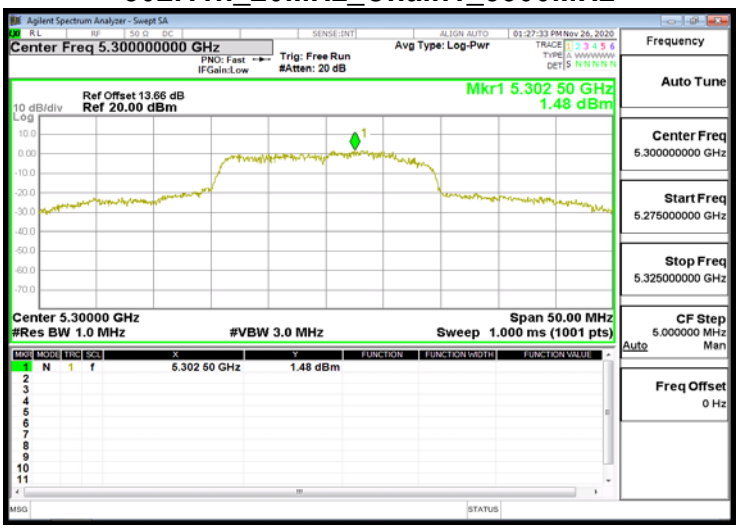
802.11n_20MHz_Chain1_5260MHz



802.11n_20MHz_Chain1_5500MHz



802.11n_20MHz_Chain1_5300MHz



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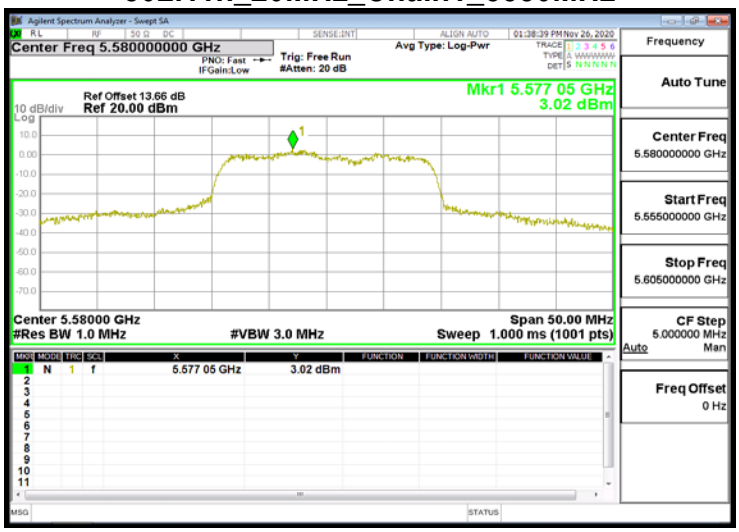
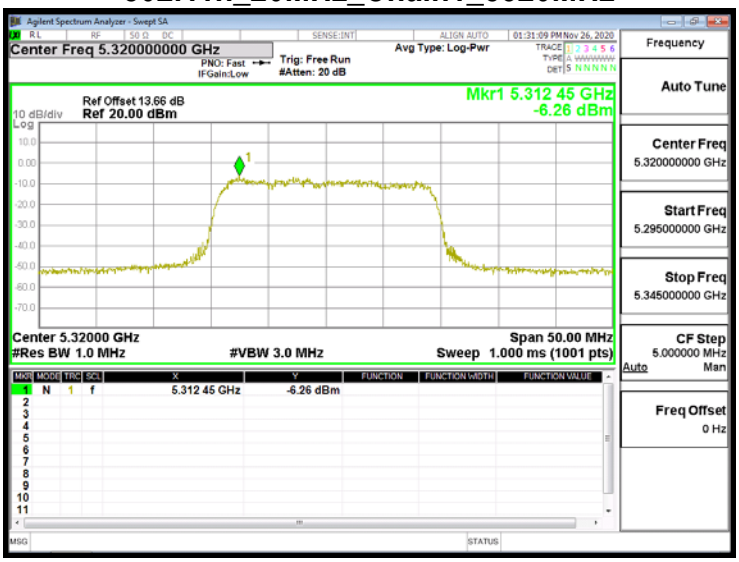
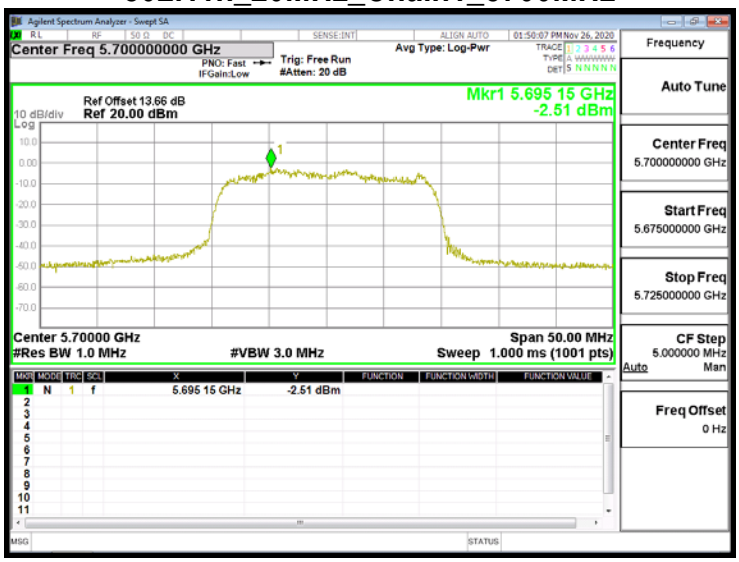


802.11n_20MHz_Chain1_5320MHz



802.11n_20MHz_Chain1_5700MHz



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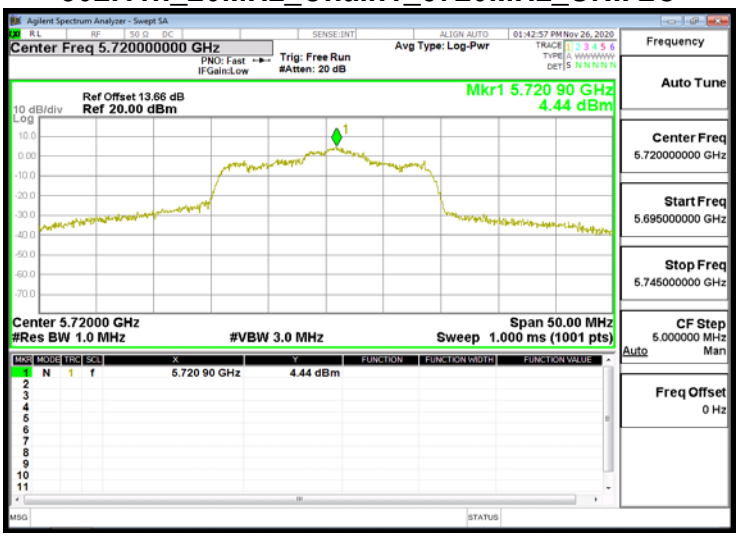
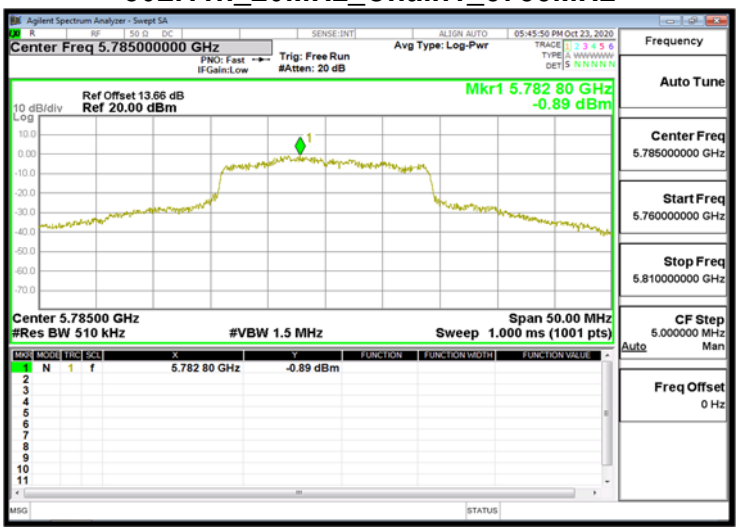
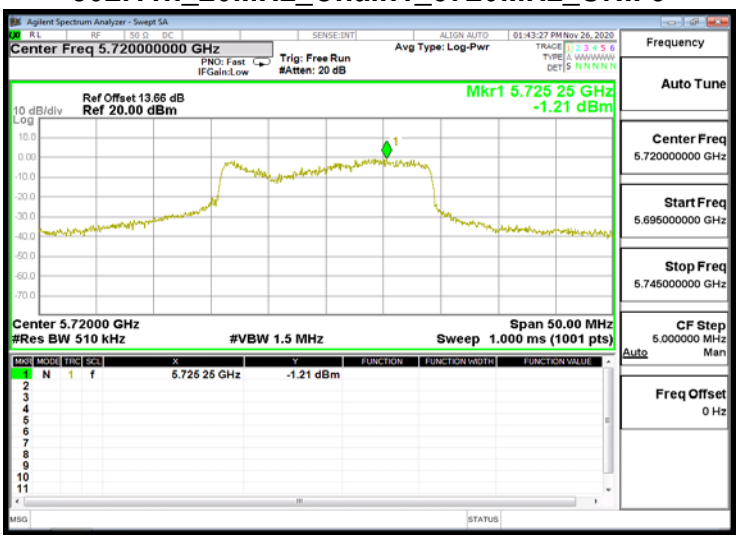
802.11n_20MHz_Chain1_5720MHz_UNII 2C



802.11n_20MHz_Chain1_5785MHz



802.11n_20MHz_Chain1_5720MHz_UNII 3



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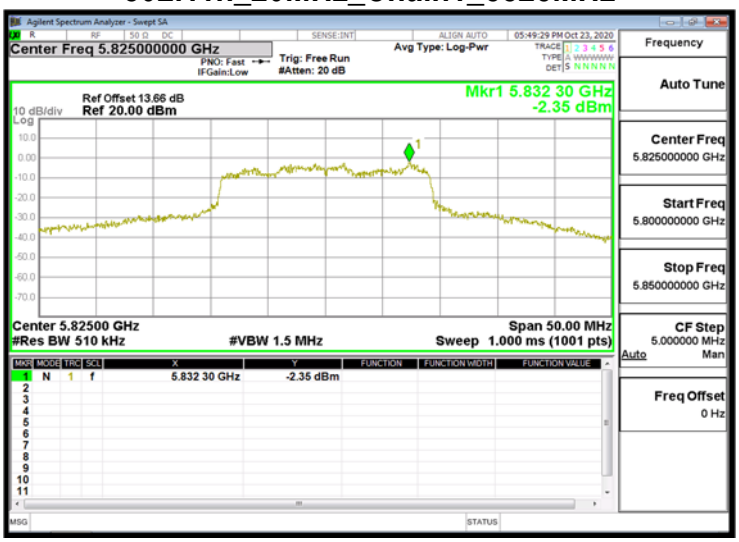
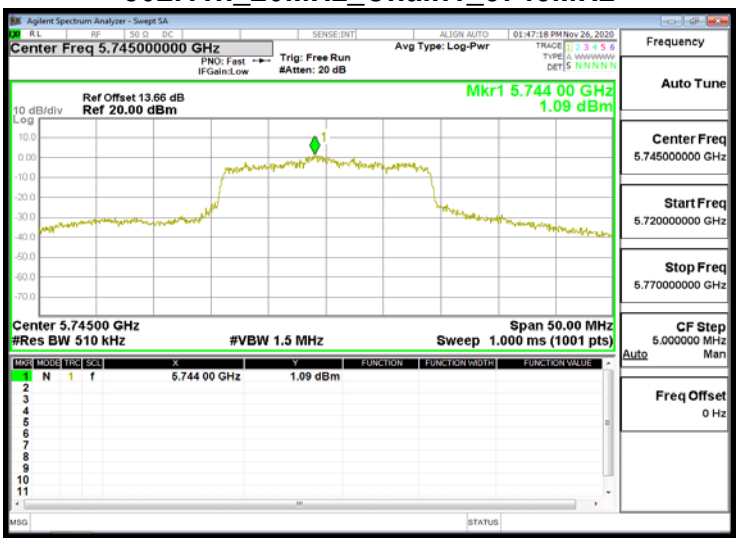
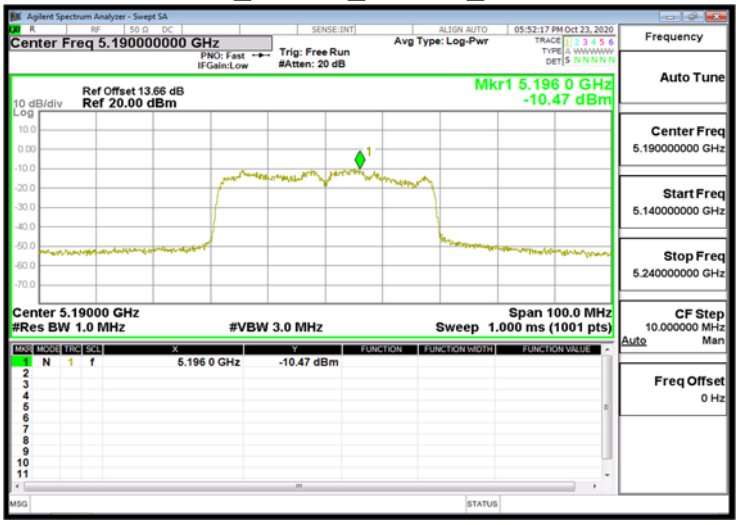


802.11n_20MHz_Chain1_5745MHz



802.11n_40MHz_Chain0_5190MHz



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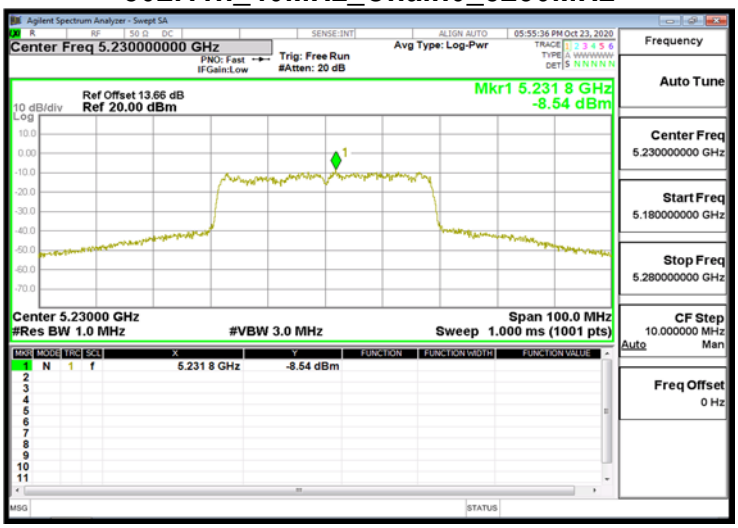
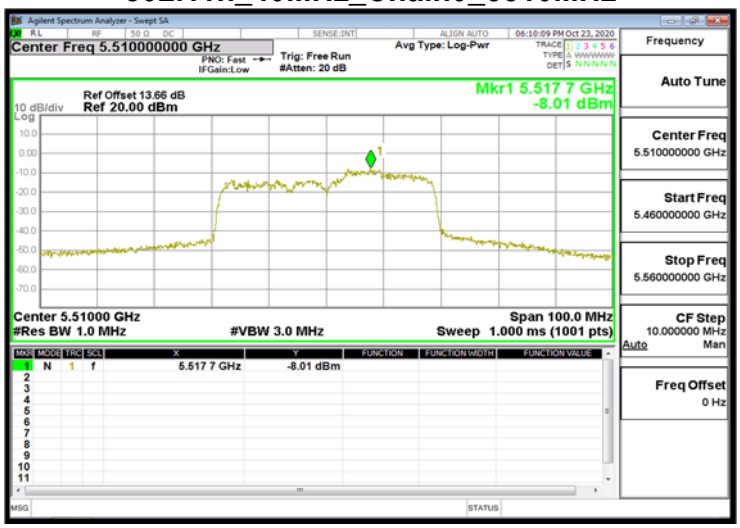
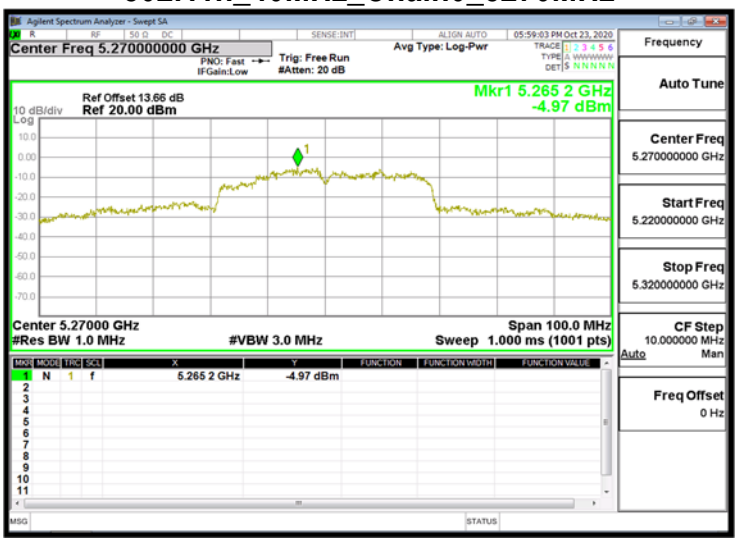
802.11n_40MHz_Chain0_5230MHz



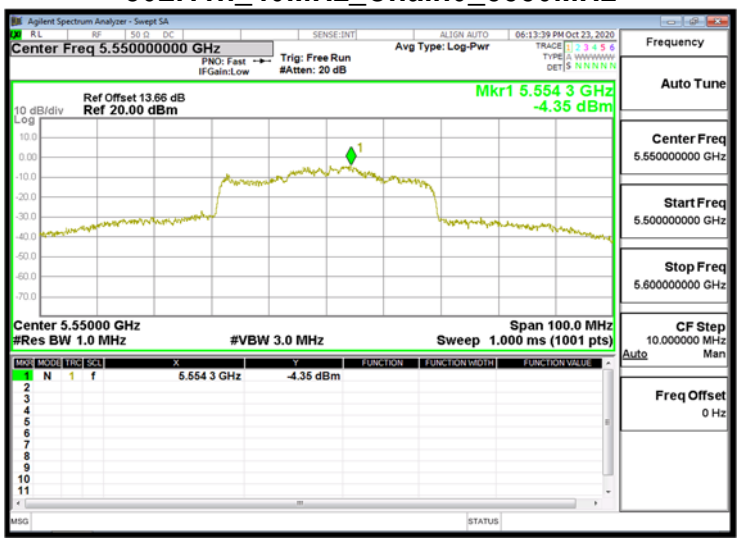
802.11n_40MHz_Chain0_5510MHz



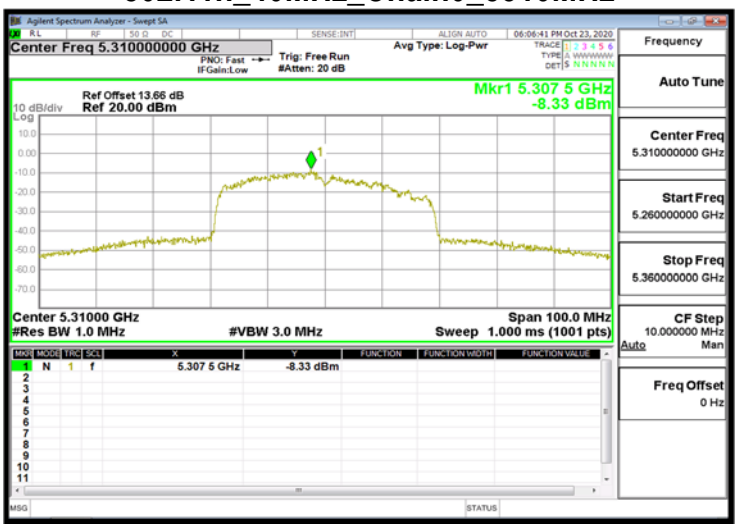
802.11n_40MHz_Chain0_5270MHz



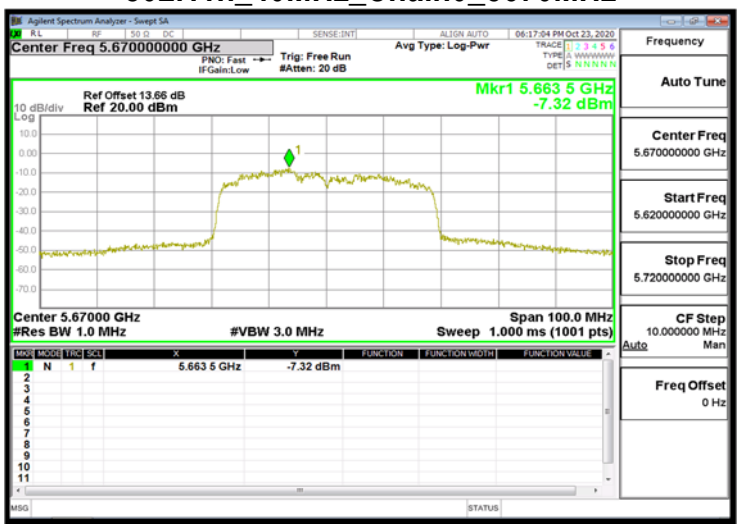
802.11n_40MHz_Chain0_5550MHz



802.11n_40MHz_Chain0_5310MHz



802.11n_40MHz_Chain0_5670MHz



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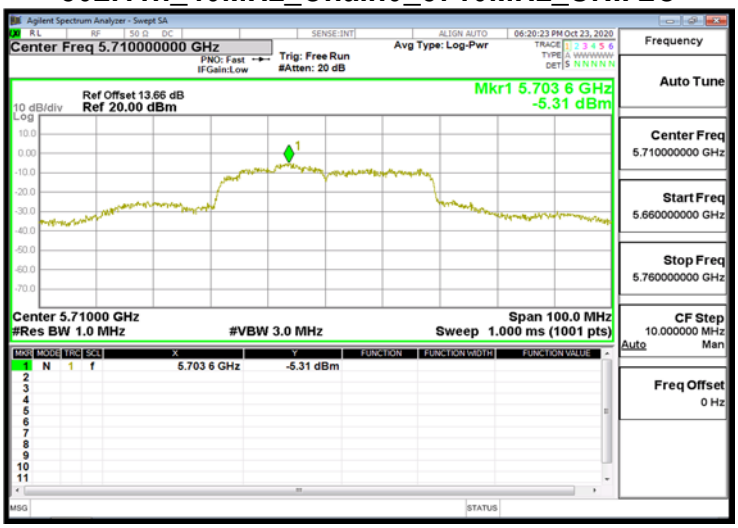
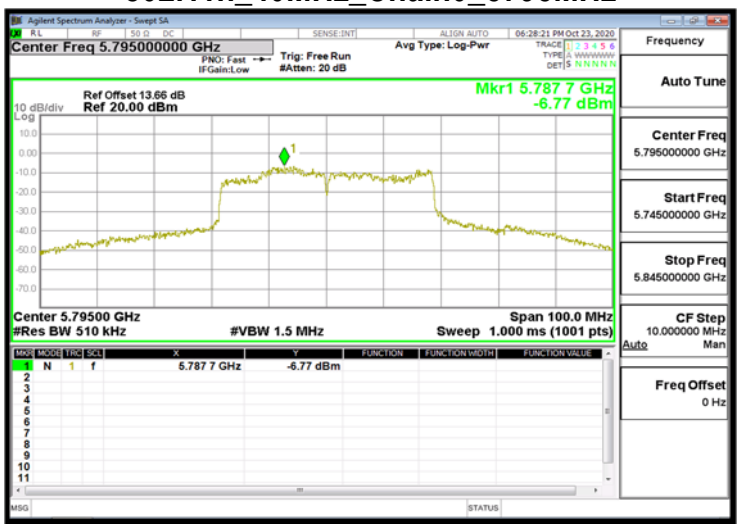
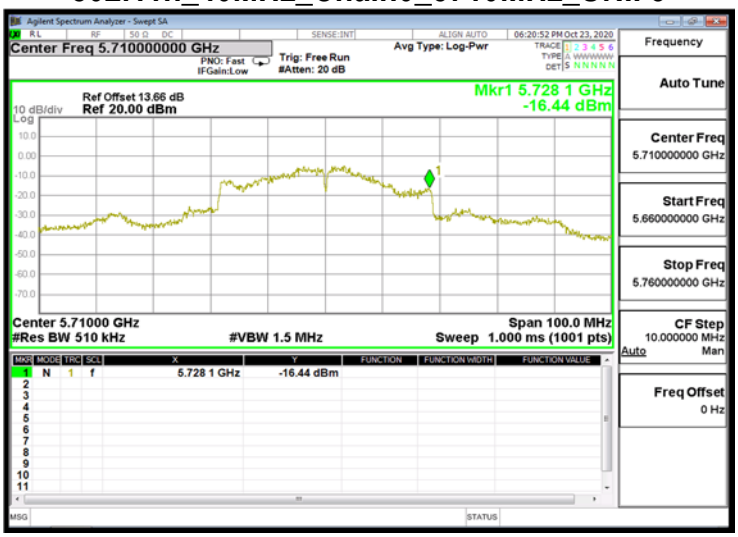
802.11n_40MHz_Chain0_5710MHz_UNII 2C



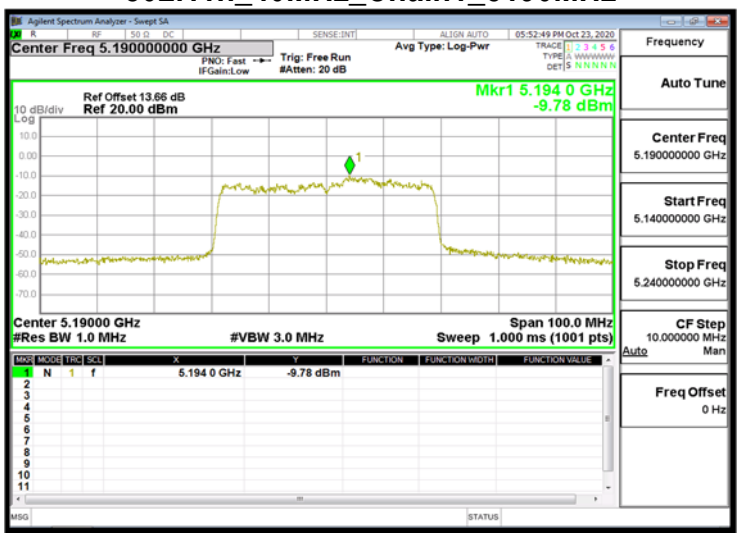
802.11n_40MHz_Chain0_5795MHz



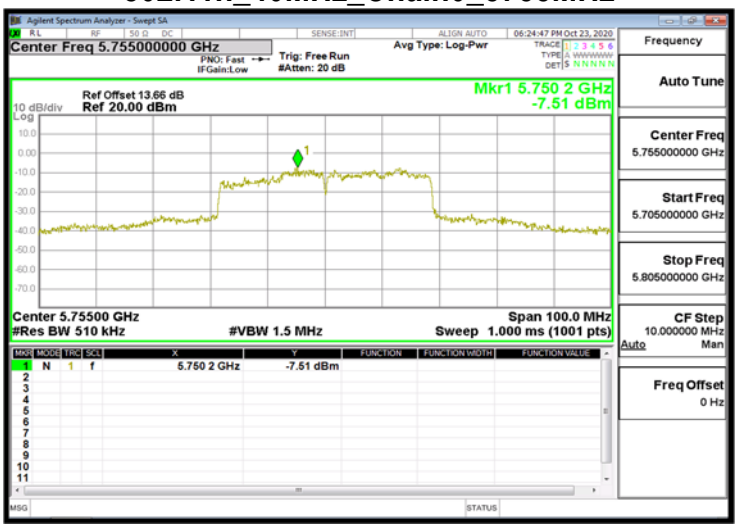
802.11n_40MHz_Chain0_5710MHz_UNII 3



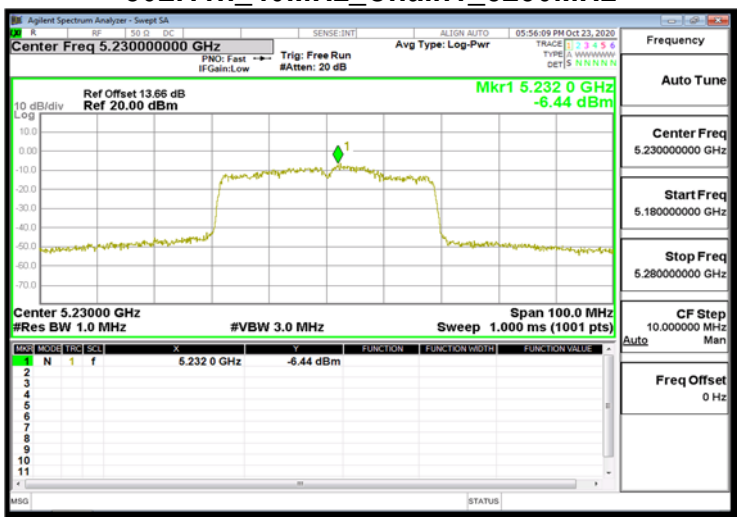
802.11n_40MHz_Chain1_5190MHz



802.11n_40MHz_Chain0_5755MHz



802.11n_40MHz_Chain1_5230MHz



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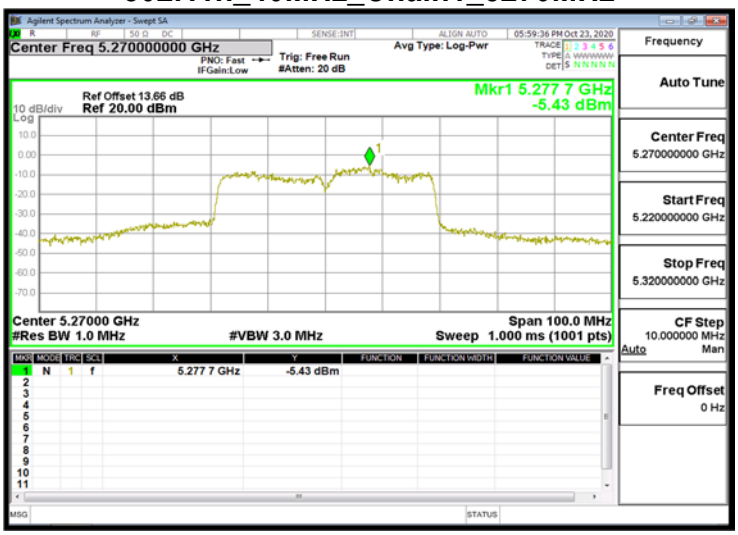
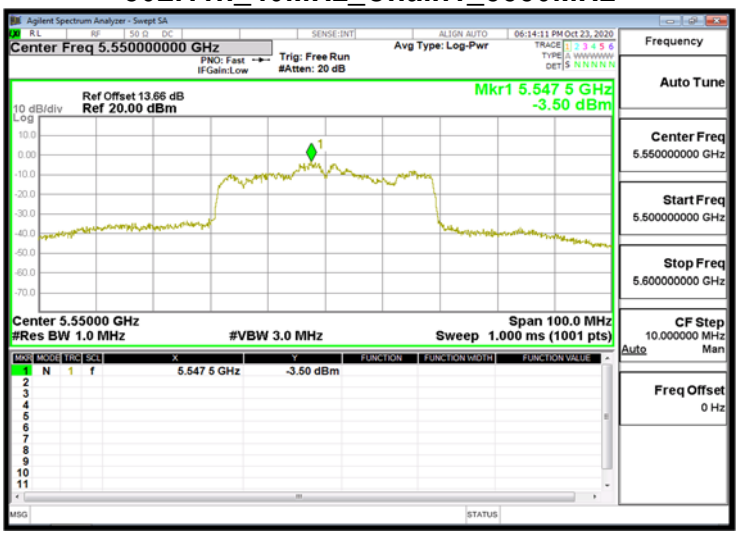
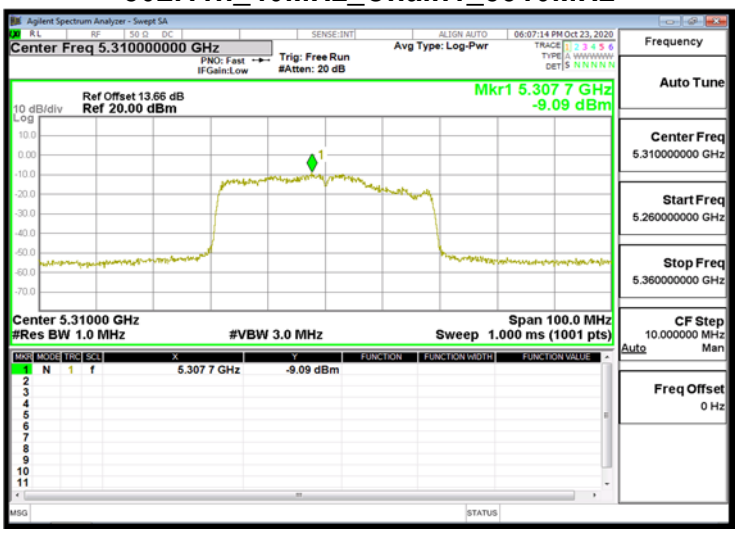
802.11n_40MHz_Chain1_5270MHz



802.11n_40MHz_Chain1_5550MHz

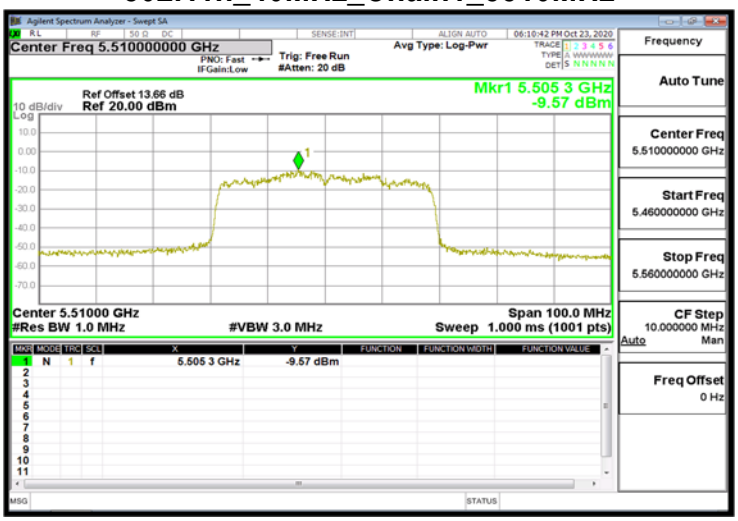


802.11n_40MHz_Chain1_5310MHz

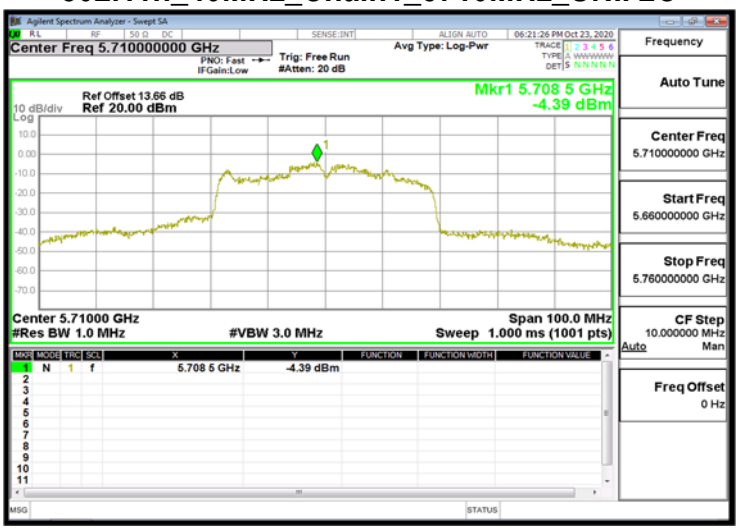


802.11n_40MHz_Chain1_5670MHz

802.11n_40MHz_Chain1_5510MHz



802.11n_40MHz_Chain1_5710MHz_UNII 2C



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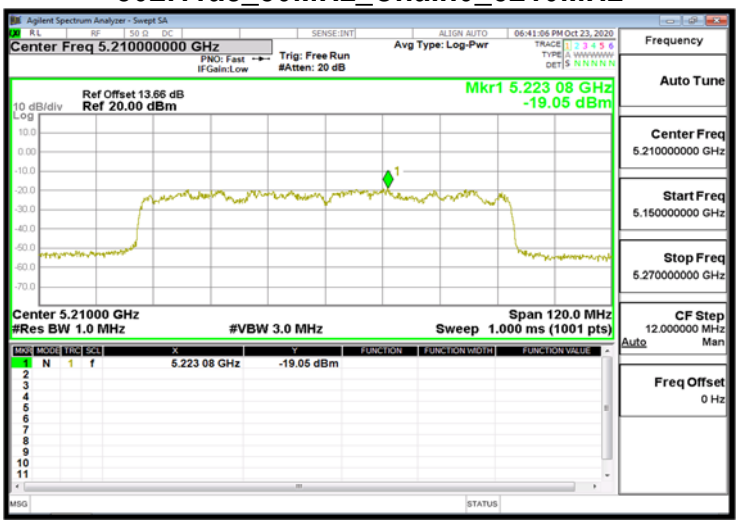
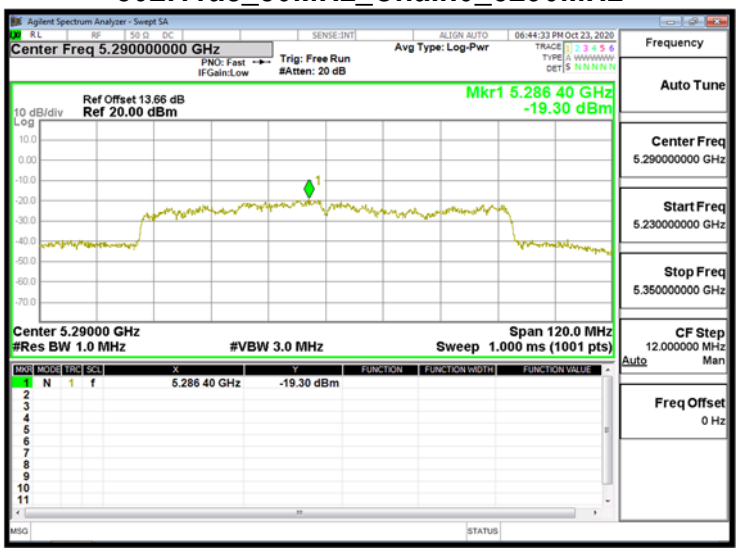
802.11n_40MHz_Chain1_5710MHz_UNII 3

802.11ac_80MHz_Chain0_5210MHz

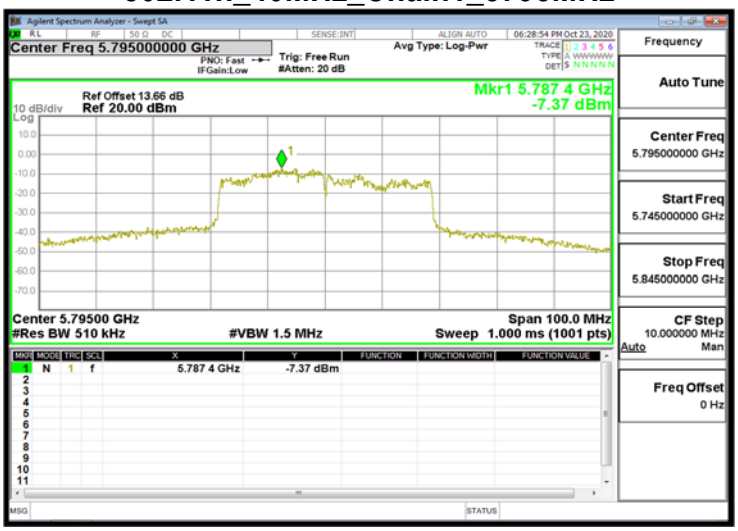


802.11n_40MHz_Chain1_5755MHz

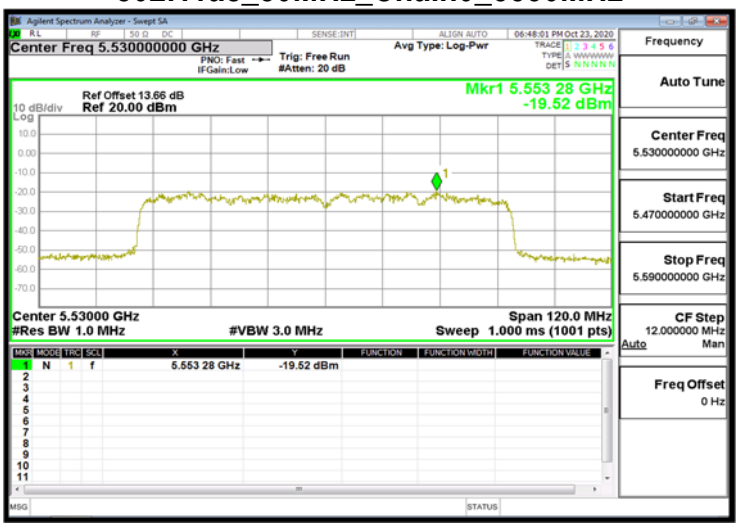
802.11ac_80MHz_Chain0_5290MHz



802.11n_40MHz_Chain1_5795MHz



802.11ac_80MHz_Chain0_5530MHz



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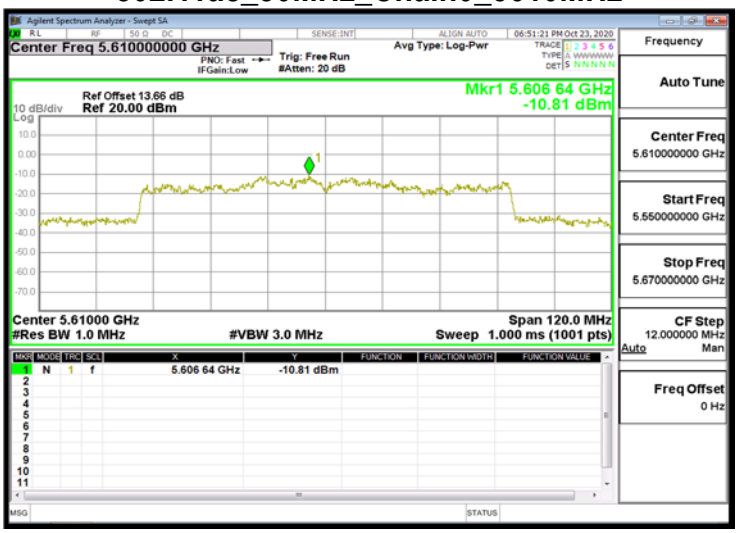
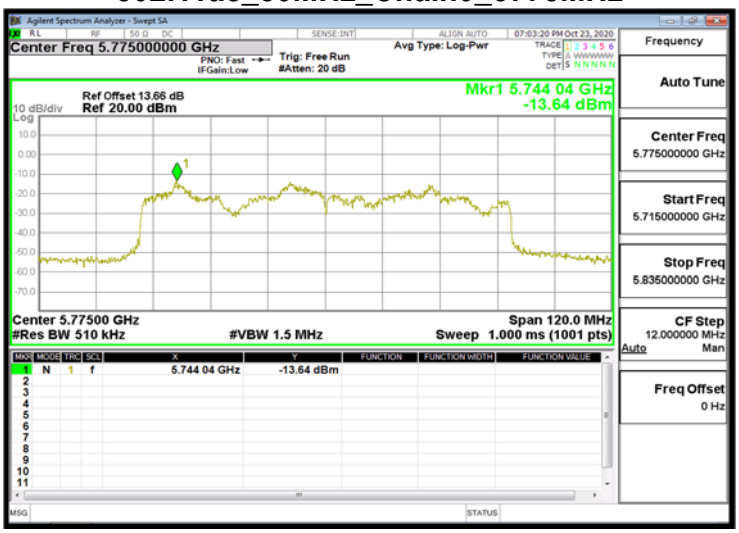
802.11ac_80MHz_Chain0_5610MHz

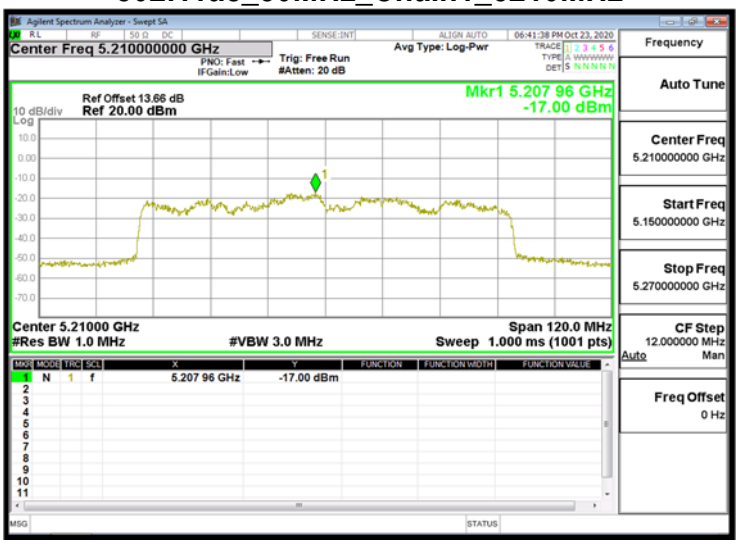


802.11ac_80MHz_Chain0_5775MHz

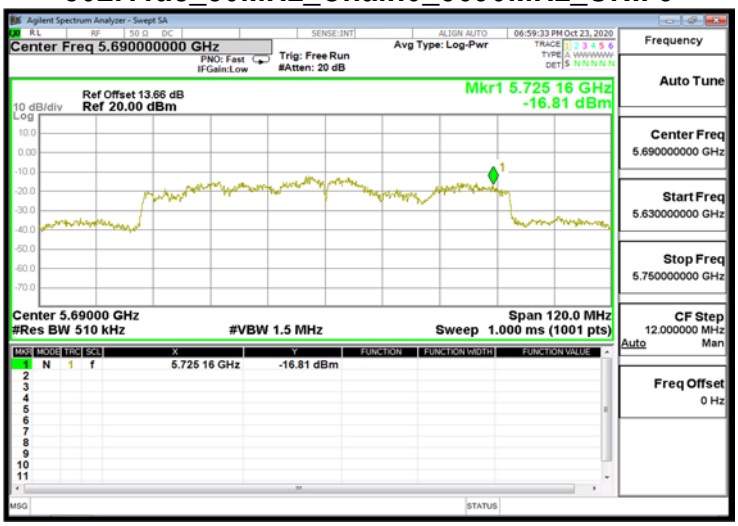


802.11ac_80MHz_Chain0_5690MHz_UNII 2C

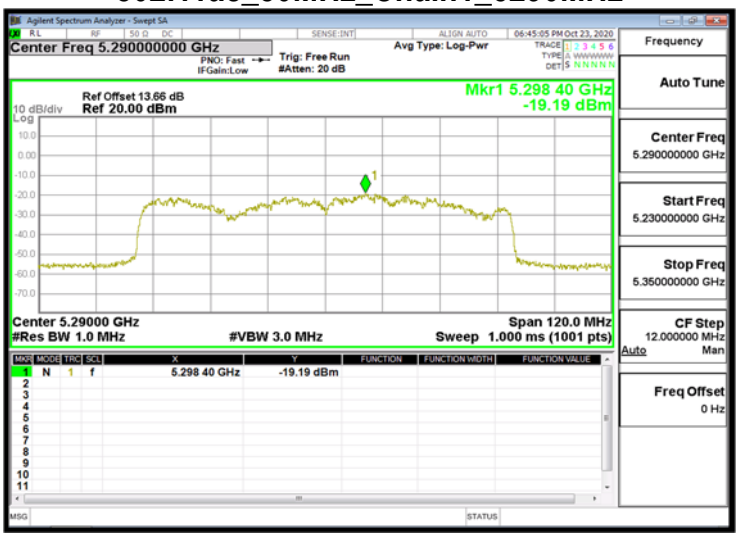
802.11ac_80MHz_Chain1_5210MHz



802.11ac_80MHz_Chain0_5690MHz_UNII 3



802.11ac_80MHz_Chain1_5290MHz



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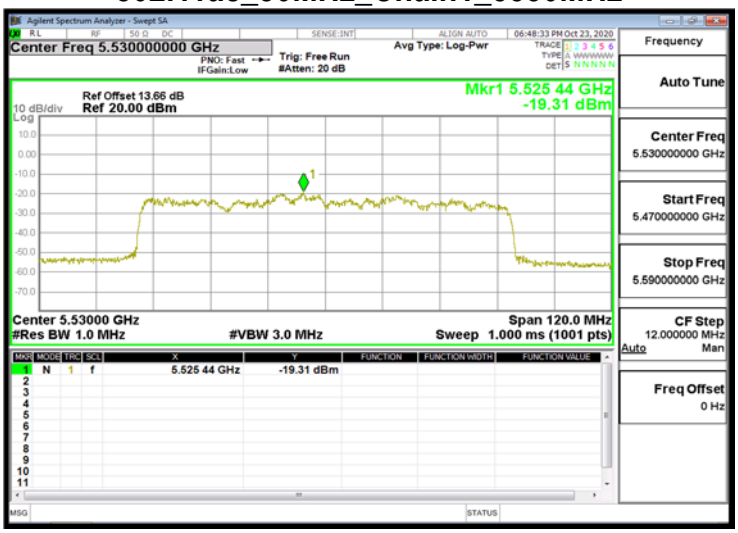
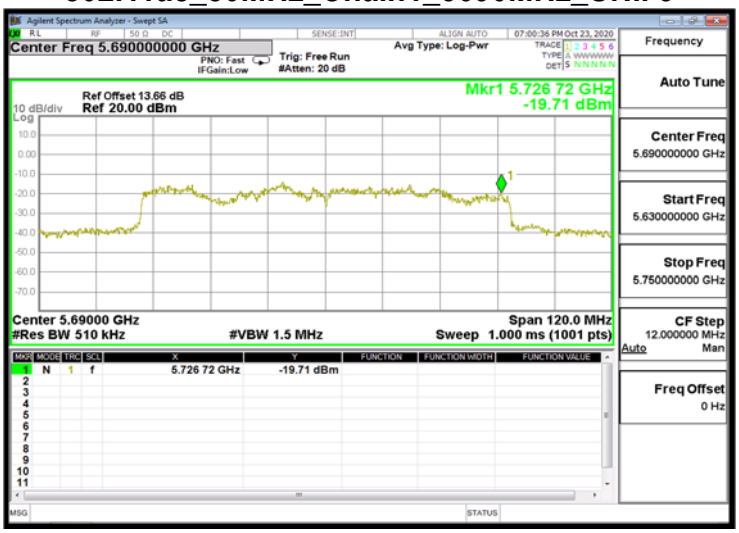
802.11ac_80MHz_Chain1_5530MHz

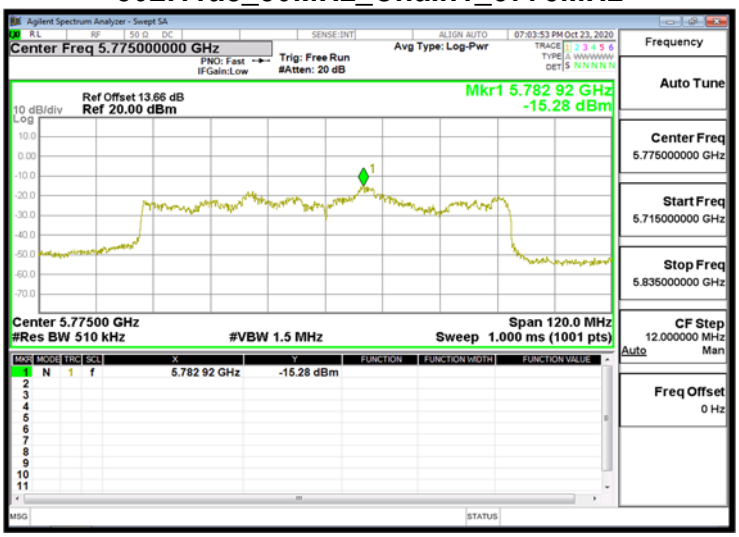


802.11ac_80MHz_Chain1_5690MHz_UNII 3

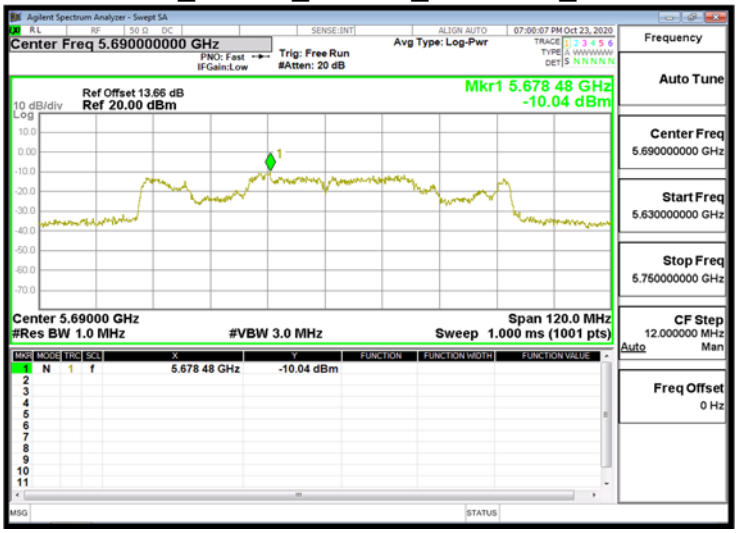


802.11ac_80MHz_Chain1_5610MHz

802.11ac_80MHz_Chain1_5775MHz



802.11ac_80MHz_Chain1_5690MHz_UNII 2C



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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
*1 beyond 75 MHz or more above of the bandedge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

*EIRP = ((E*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 (dBµV/m) = 20 log Emission level (µV/m)*

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11.2 Measurement Equipment Used

966 Chamber					
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	D803	12/20/2019	12/19/2020
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	01/13/2020	01/12/2021
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
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020
DC Power Supply	Agilent	E3640A	MY52410006	12/10/2019	12/09/2020
Pre-Amplifier	EMC Instru-ments	EMC051825	980152	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

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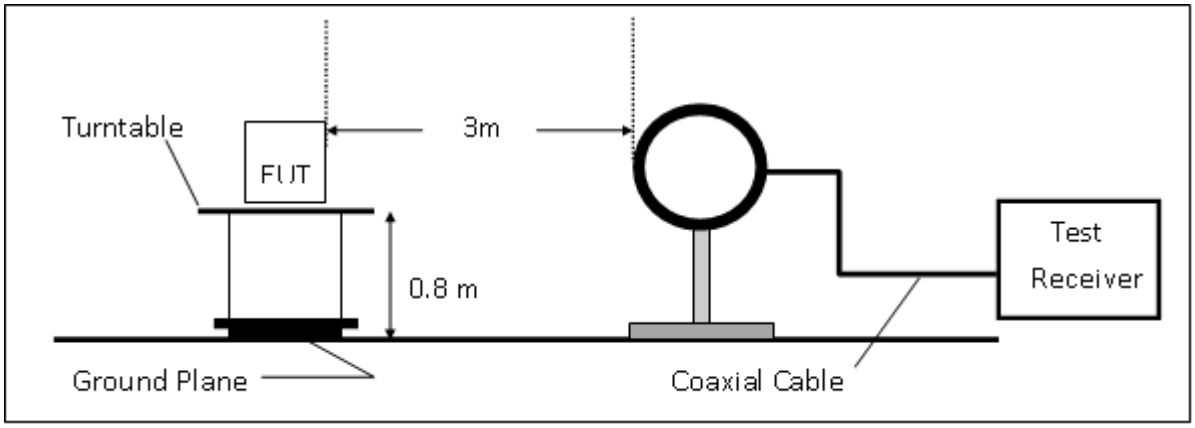
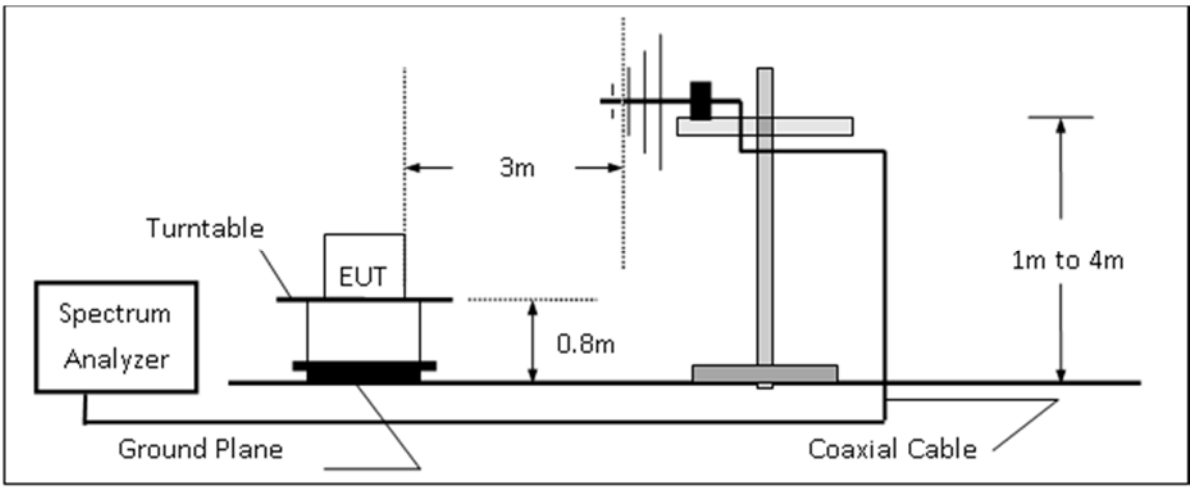
11.3 Test SET-UP

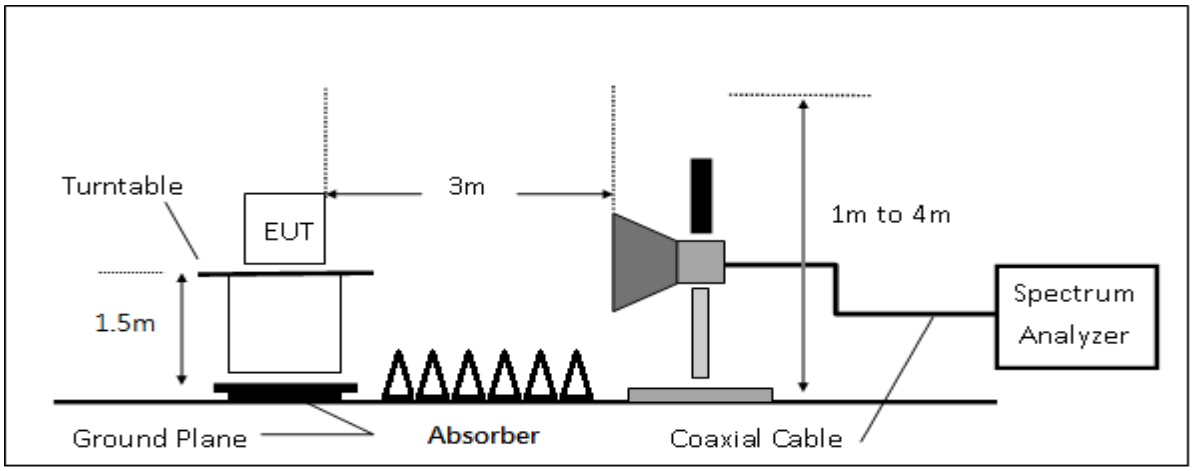
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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 ≥ 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.

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*log(uV/m)*

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

Factor(dB) = Antenna Factor(dBµV/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.

Pre-scanned was done at frequency 5.47 GHz and 5.85 GHz for bandedge measurement of straddle channels 138, 142 and 144 which was 20dB lower than the limit per 15.31(o) & RSS-GEN §6.13.2 was not reported.

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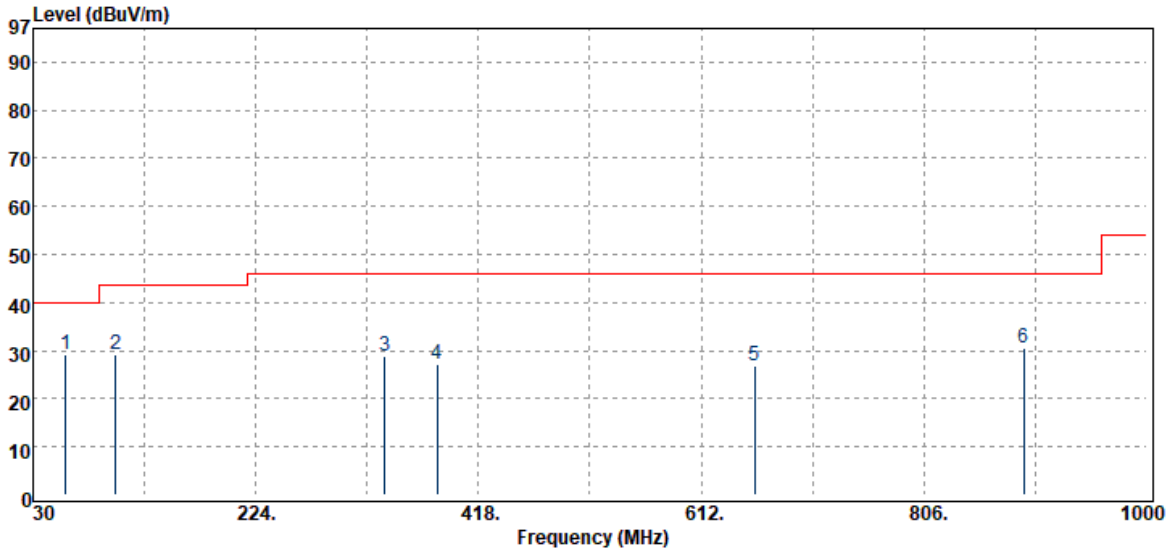
11.7 Radiated Spurious Emission Measurement Result

11.7.1 Below 1GHz Worst-Case Data:

Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-26
Test Frequency	:5220 MHz	Temp./Humi.	:23.4/63
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
58.13	Peak	45.85	-16.81	29.04	40.00	-10.96
101.78	Peak	41.39	-12.29	29.10	43.50	-14.40
336.52	Peak	36.52	-7.67	28.85	46.00	-17.15
382.11	Peak	33.94	-6.83	27.11	46.00	-18.89
658.56	Peak	30.19	-3.27	26.92	46.00	-19.08
893.30	Peak	29.24	1.14	30.38	46.00	-15.62

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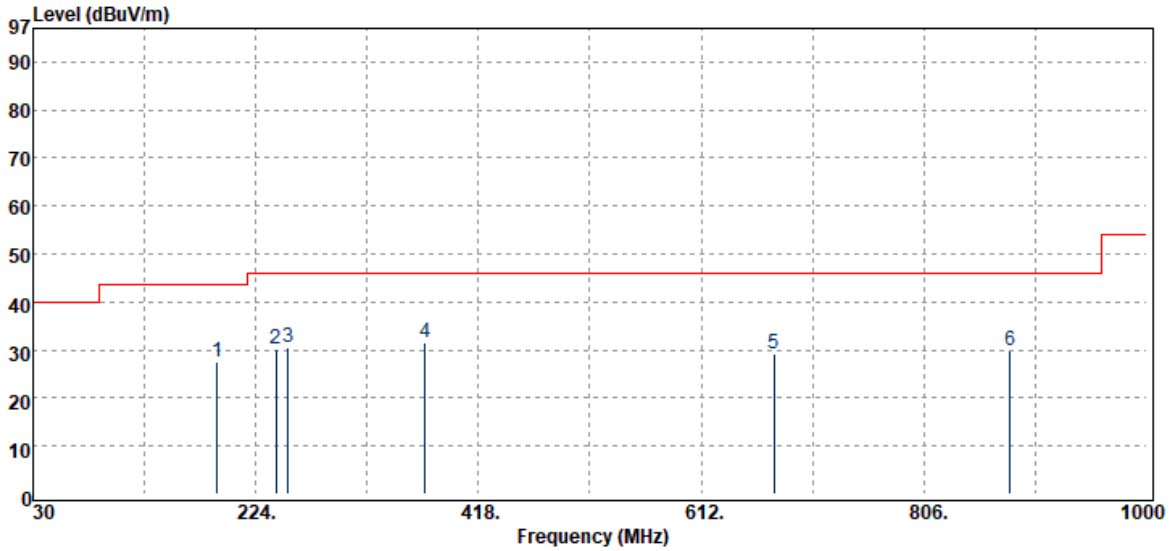
Operation Mode	:802.11a	Test Date	:2020-10-26
Test Frequency	:5220 MHz	Temp./Humi.	:23.4/63
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
190.05	Peak	40.51	-12.94	27.57	43.50	-15.93
241.46	Peak	40.24	-10.05	30.19	46.00	-15.81
252.13	Peak	39.73	-9.13	30.60	46.00	-15.40
371.44	Peak	38.29	-6.90	31.39	46.00	-14.61
675.05	Peak	31.44	-2.36	29.08	46.00	-16.92
880.69	Peak	29.37	0.64	30.01	46.00	-15.99

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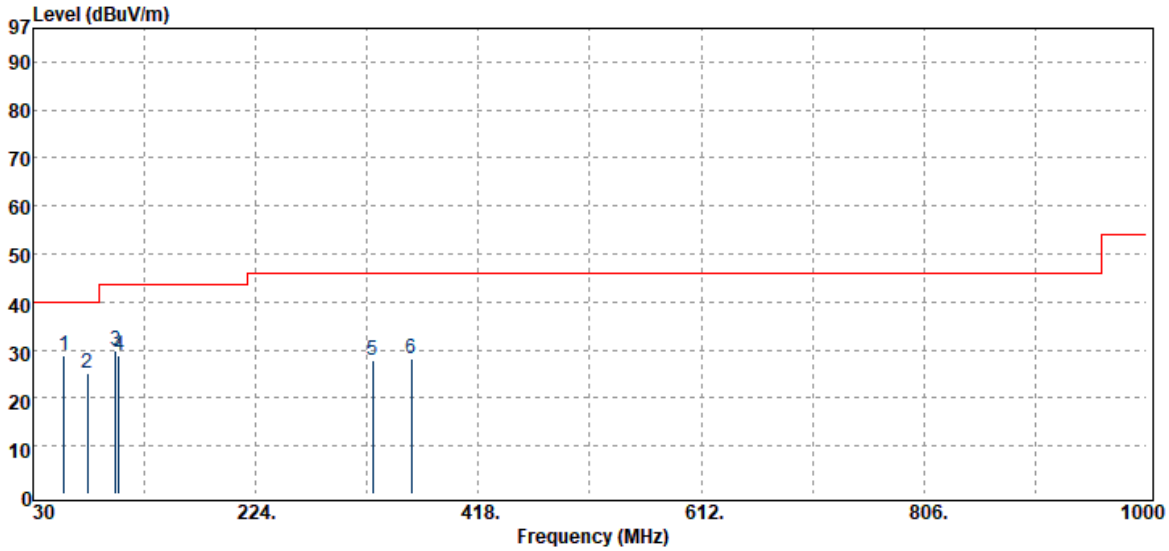
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-26
Test Frequency	:5300 MHz	Temp./Humi.	:23.4/63
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	45.45	-16.69	28.76	40.00	-11.24
77.53	Peak	41.68	-16.55	25.13	40.00	-14.87
101.78	Peak	42.08	-12.29	29.79	43.50	-13.71
104.69	Peak	40.80	-12.05	28.75	43.50	-14.75
325.85	Peak	35.74	-7.72	28.02	46.00	-17.98
359.80	Peak	34.92	-6.82	28.10	46.00	-17.90

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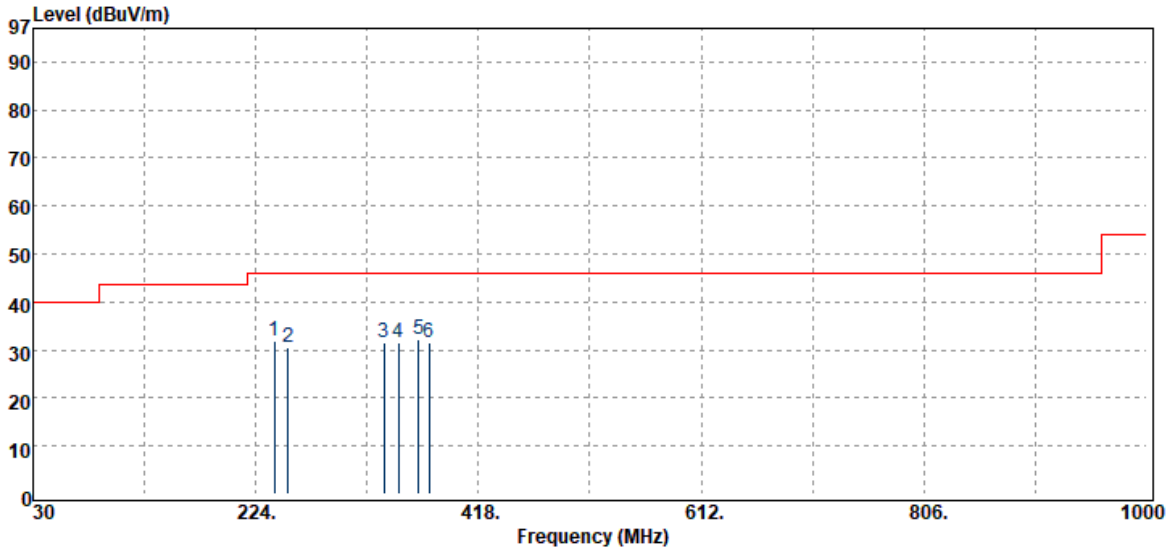
Operation Mode	:802.11a	Test Date	:2020-10-26
Test Frequency	:5300 MHz	Temp./Humi.	:23.4/63
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
240.49	Peak	41.96	-10.12	31.84	46.00	-14.16
252.13	Peak	39.57	-9.13	30.44	46.00	-15.56
335.55	Peak	39.35	-7.67	31.68	46.00	-14.32
348.16	Peak	39.02	-7.47	31.55	46.00	-14.45
365.62	Peak	38.93	-6.80	32.13	46.00	-13.87
375.32	Peak	38.41	-6.91	31.50	46.00	-14.50

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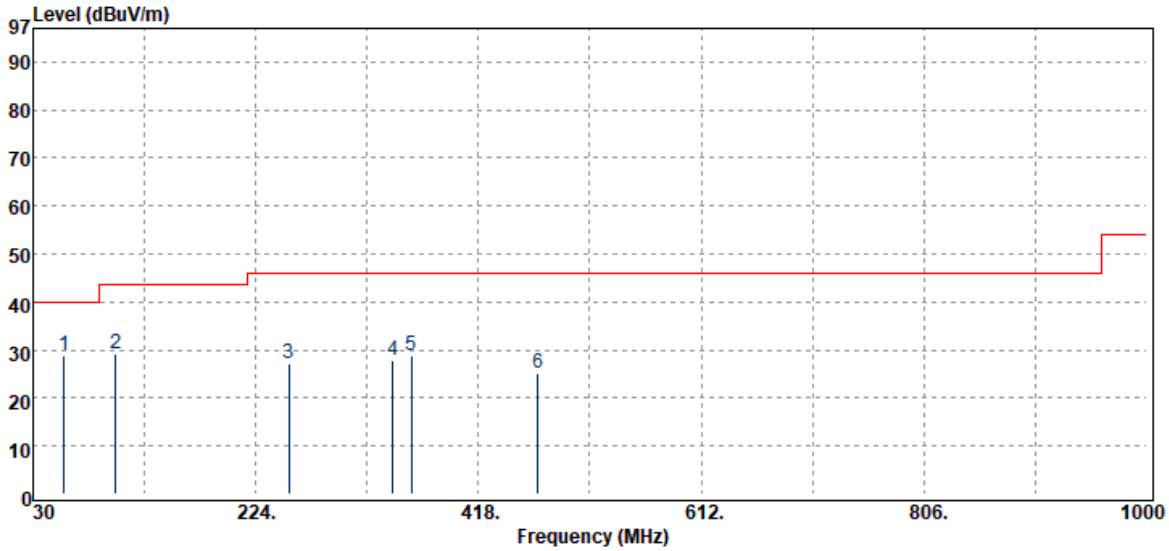
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-26
Test Frequency	:5580 MHz	Temp./Humi.	:23.4/63
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	45.50	-16.69	28.81	40.00	-11.19
101.78	Peak	41.44	-12.29	29.15	43.50	-14.35
253.10	Peak	36.11	-9.02	27.09	46.00	-18.91
343.31	Peak	35.60	-7.59	28.01	46.00	-17.99
359.80	Peak	35.76	-6.82	28.94	46.00	-17.06
469.41	Peak	30.68	-5.52	25.16	46.00	-20.84

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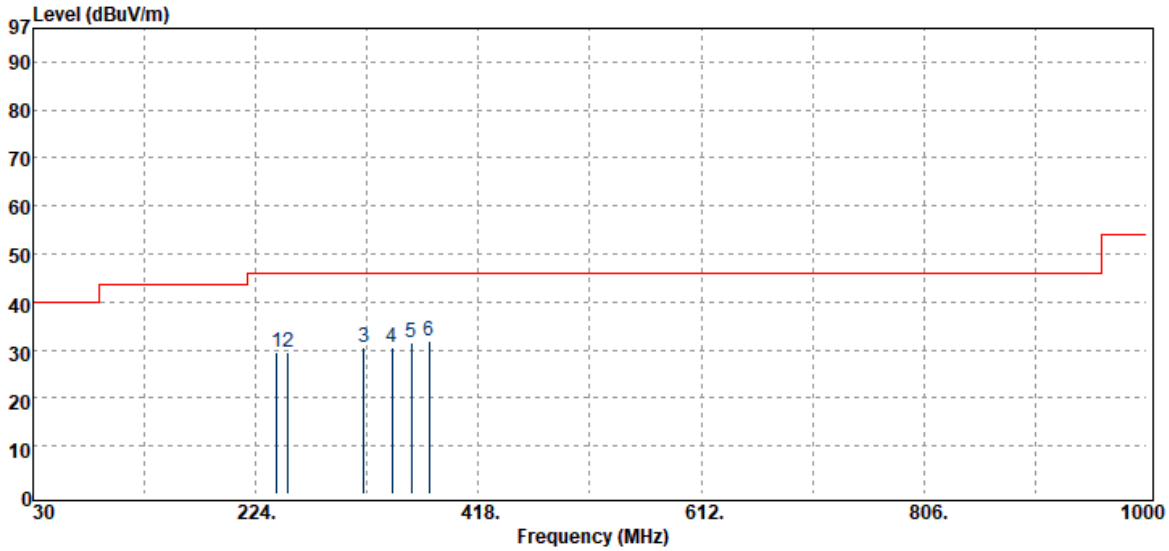
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-26
Test Frequency	:5580 MHz	Temp./Humi.	:23.4/63
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
242.43	Peak	39.63	-9.96	29.67	46.00	-16.33
252.13	Peak	38.63	-9.13	29.50	46.00	-16.50
318.09	Peak	38.27	-7.83	30.44	46.00	-15.56
342.34	Peak	38.14	-7.62	30.52	46.00	-15.48
359.80	Peak	38.38	-6.82	31.56	46.00	-14.44
375.32	Peak	38.68	-6.91	31.77	46.00	-14.23

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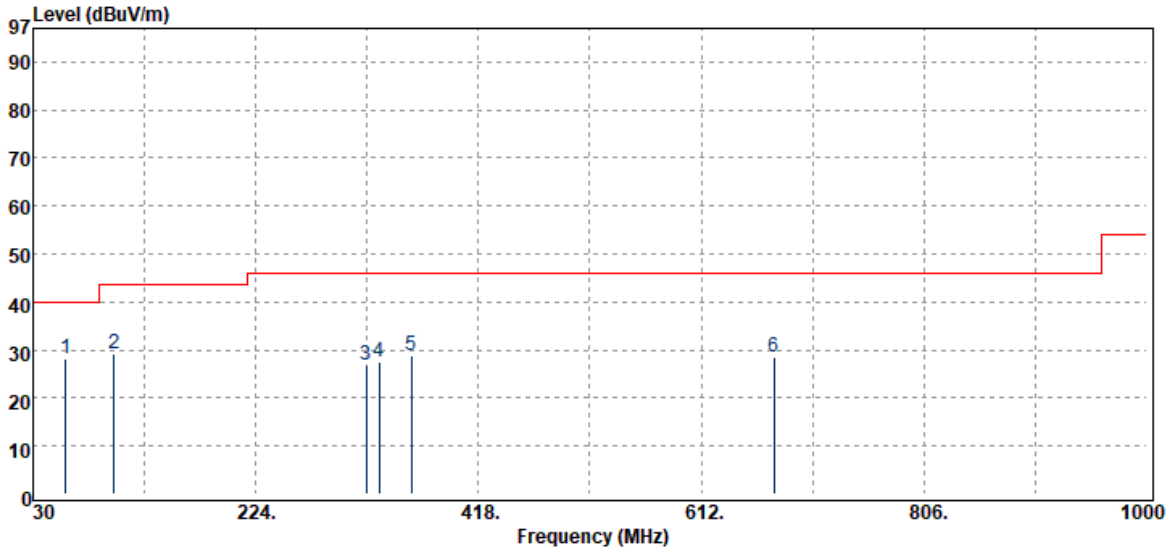
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-26
Test Frequency	:5785 MHz	Temp./Humi.	:23.4/63
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
58.13	Peak	44.98	-16.81	28.17	40.00	-11.83
100.81	Peak	41.60	-12.47	29.13	43.50	-14.37
320.03	Peak	34.61	-7.78	26.83	46.00	-19.17
331.67	Peak	35.05	-7.67	27.38	46.00	-18.62
359.80	Peak	35.67	-6.82	28.85	46.00	-17.15
675.05	Peak	30.78	-2.36	28.42	46.00	-17.58

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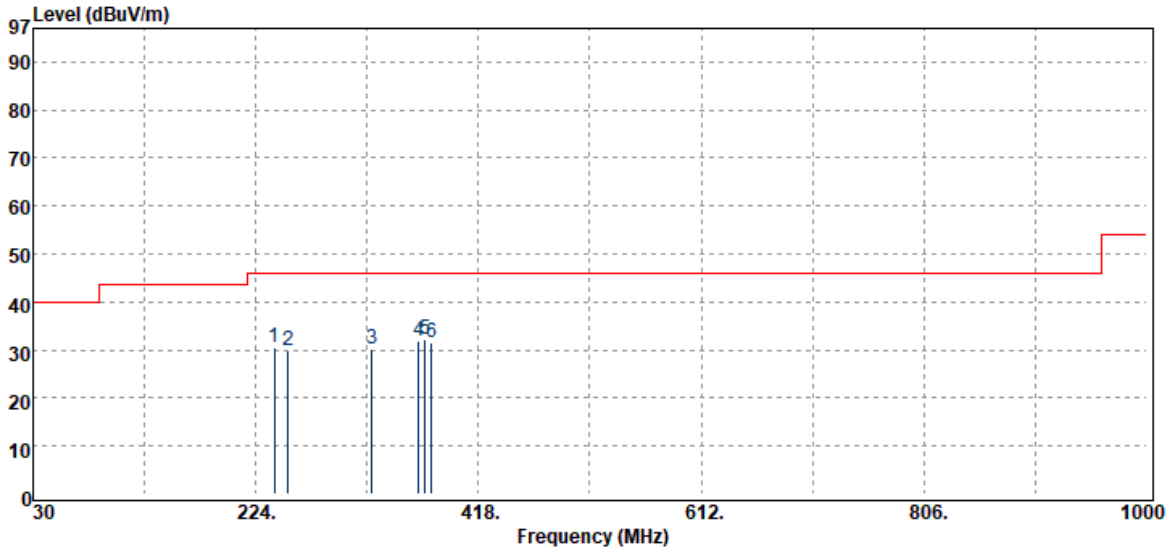
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-26
Test Frequency	:5785 MHz	Temp./Humi.	:23.4/63
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
240.49	Peak	40.57	-10.12	30.45	46.00	-15.55
252.13	Peak	38.91	-9.13	29.78	46.00	-16.22
324.88	Peak	38.06	-7.73	30.33	46.00	-15.67
365.62	Peak	38.77	-6.80	31.97	46.00	-14.03
371.44	Peak	39.28	-6.90	32.38	46.00	-13.62
377.26	Peak	38.47	-6.89	31.58	46.00	-14.42

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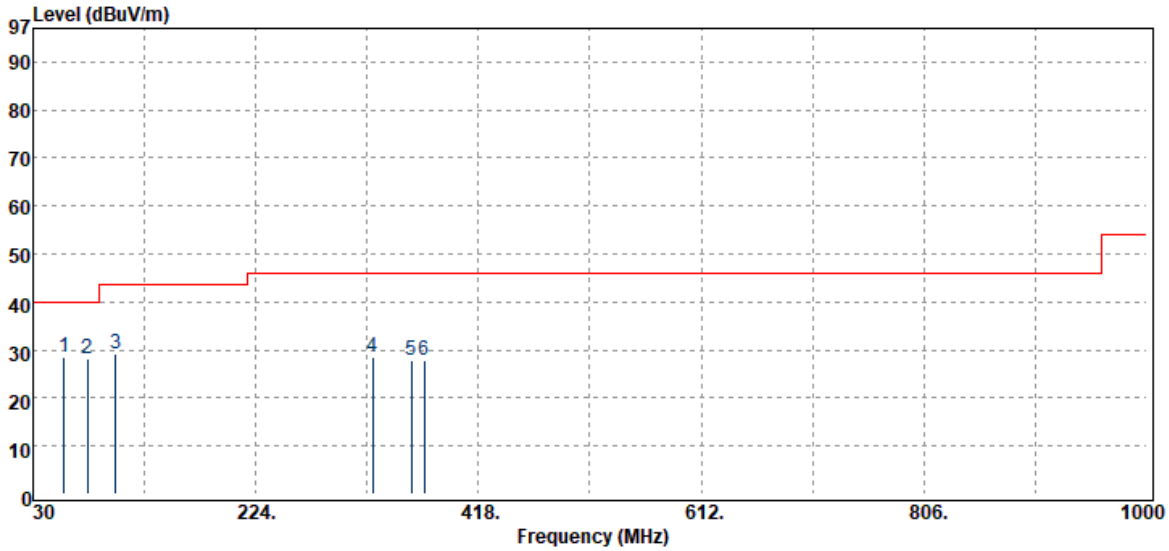
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11ac80	Test Date	:2020-10-26
Test Frequency	:5210 MHz	Temp./Humi.	:23.4/63
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	45.37	-16.69	28.68	40.00	-11.32
77.53	Peak	44.64	-16.55	28.09	40.00	-11.91
101.78	Peak	41.64	-12.29	29.35	43.50	-14.15
325.85	Peak	36.22	-7.72	28.50	46.00	-17.50
359.80	Peak	34.72	-6.82	27.90	46.00	-18.10
370.47	Peak	34.77	-6.90	27.87	46.00	-18.13

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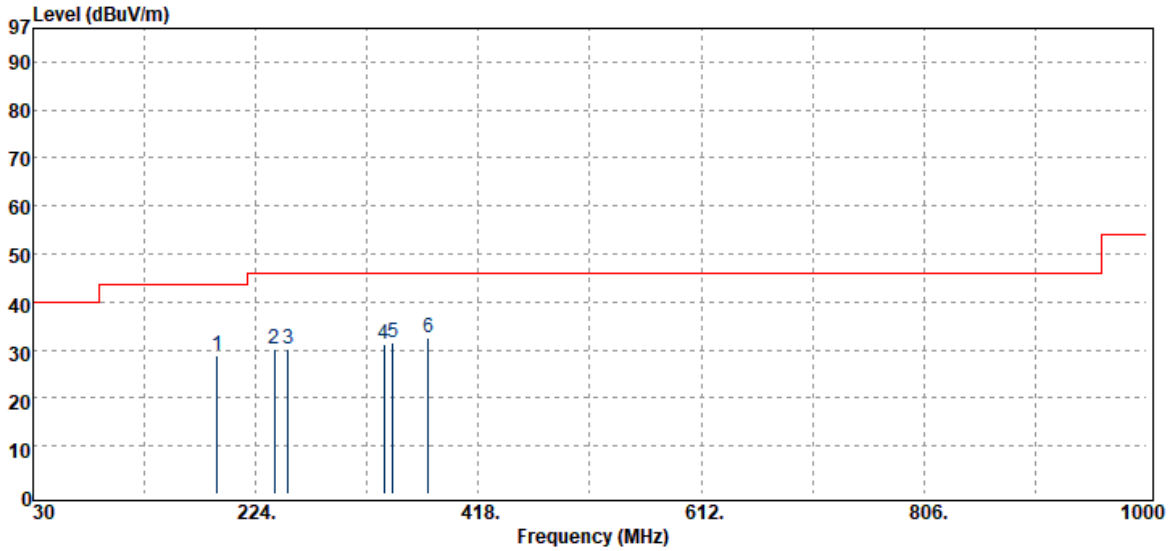
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11ac80	Test Date	:2020-10-26
Test Frequency	:5210 MHz	Temp./Humi.	:23.4/63
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
190.05	Peak	41.85	-12.94	28.91	43.50	-14.59
240.49	Peak	40.40	-10.12	30.28	46.00	-15.72
252.13	Peak	39.36	-9.13	30.23	46.00	-15.77
335.55	Peak	38.72	-7.67	31.05	46.00	-14.95
343.31	Peak	39.01	-7.59	31.42	46.00	-14.58
374.35	Peak	39.40	-6.93	32.47	46.00	-13.53

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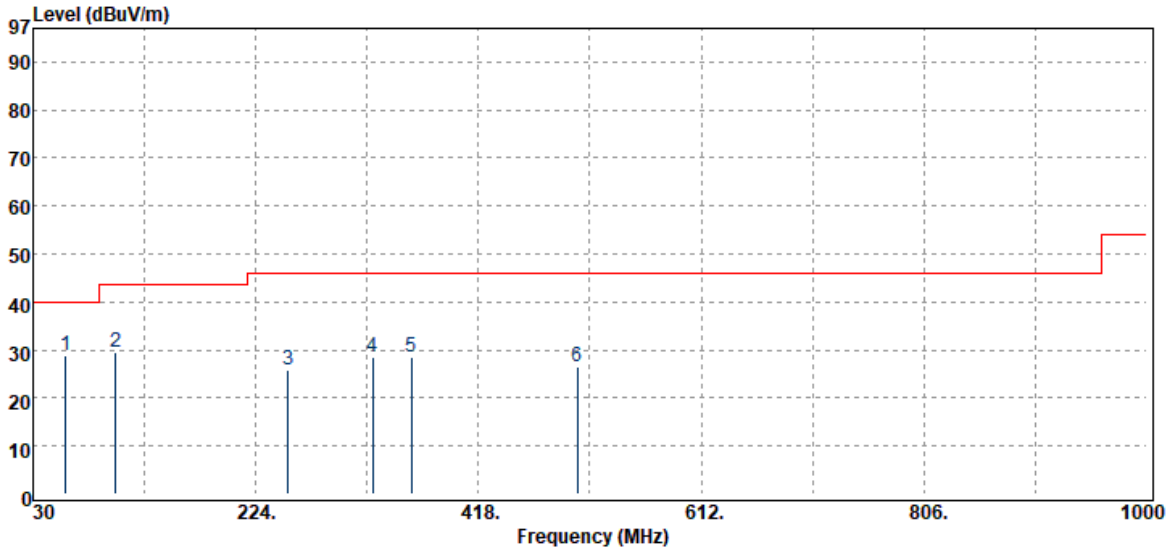
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11ac80	Test Date	:2020-10-26
Test Frequency	:5290 MHz	Temp./Humi.	:23.4/63
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
58.13	Peak	45.77	-16.81	28.96	40.00	-11.04
101.78	Peak	41.75	-12.29	29.46	43.50	-14.04
252.13	Peak	35.06	-9.13	25.93	46.00	-20.07
325.85	Peak	36.28	-7.72	28.56	46.00	-17.44
359.80	Peak	35.23	-6.82	28.41	46.00	-17.59
504.33	Peak	31.48	-4.92	26.56	46.00	-19.44

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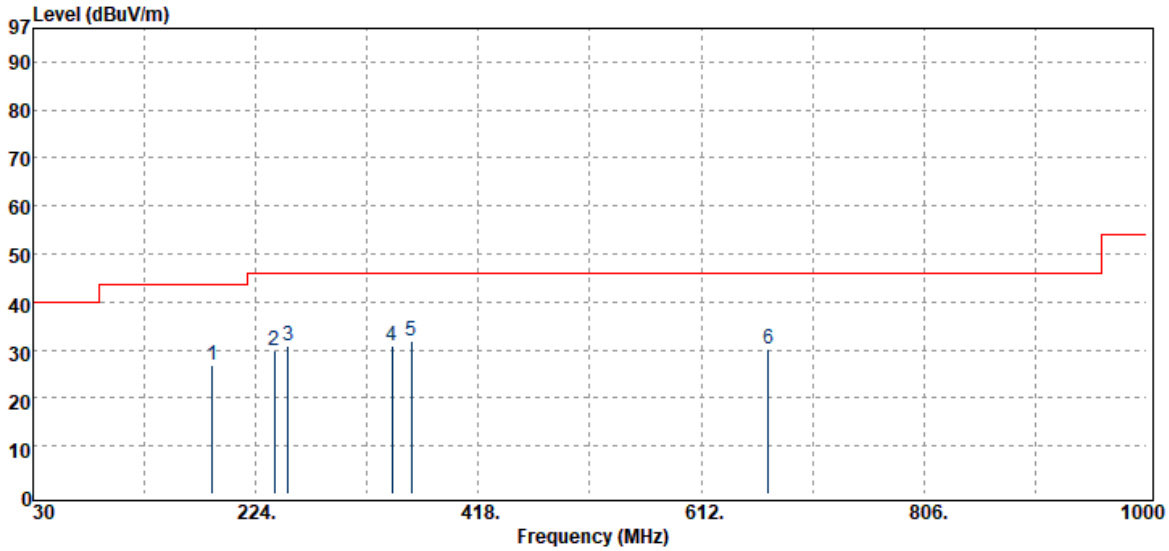
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11ac80	Test Date	:2020-10-26
Test Frequency	:5290 MHz	Temp./Humi.	:23.4/63
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
186.17	Peak	40.18	-13.17	27.01	43.50	-16.49
240.49	Peak	39.90	-10.12	29.78	46.00	-16.22
252.13	Peak	40.10	-9.13	30.97	46.00	-15.03
342.34	Peak	38.53	-7.62	30.91	46.00	-15.09
359.80	Peak	38.76	-6.82	31.94	46.00	-14.06
670.20	Peak	32.77	-2.50	30.27	46.00	-15.73

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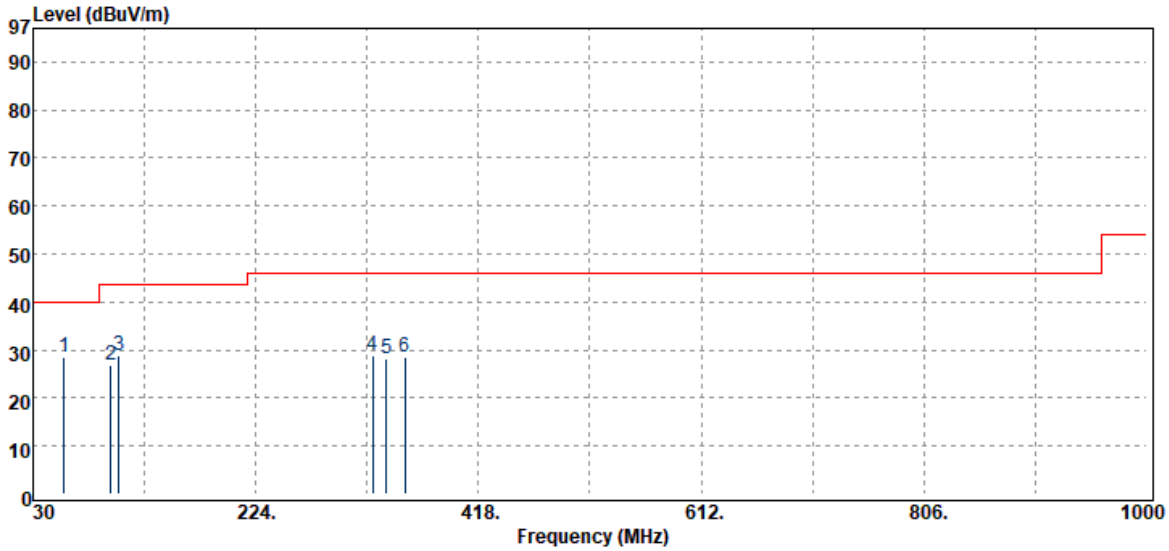
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11ac80	Test Date	:2020-10-26
Test Frequency	:5610 MHz	Temp./Humi.	:23.4/63
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	45.35	-16.69	28.66	40.00	-11.34
97.90	Peak	39.70	-12.78	26.92	43.50	-16.58
104.69	Peak	40.90	-12.05	28.85	43.50	-14.65
325.85	Peak	36.45	-7.72	28.73	46.00	-17.27
337.49	Peak	35.76	-7.67	28.09	46.00	-17.91
353.98	Peak	35.70	-7.14	28.56	46.00	-17.44

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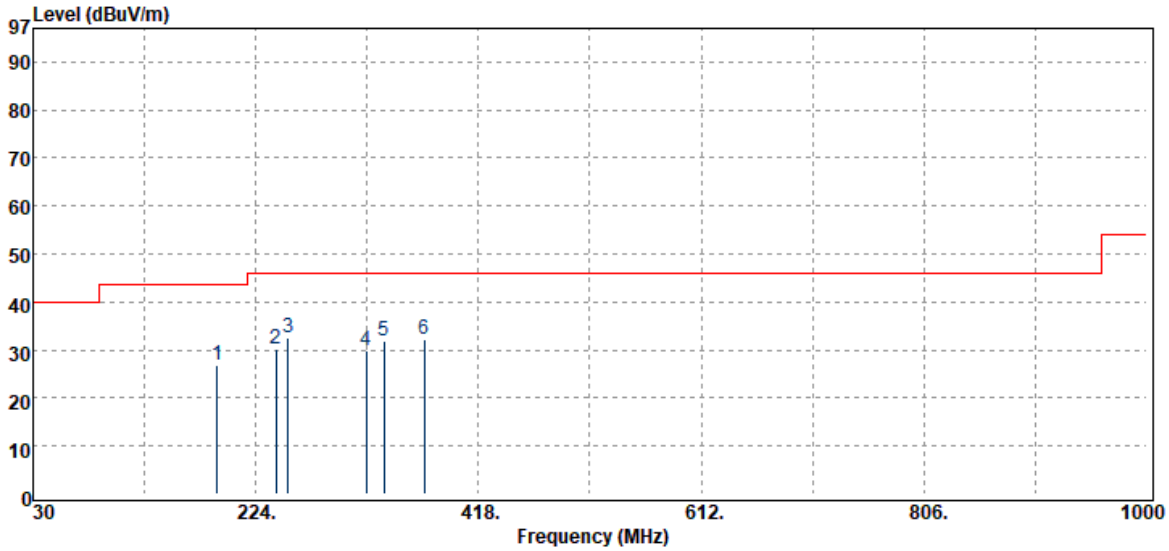
Operation Mode	:802.11ac80	Test Date	:2020-10-26
Test Frequency	:5610 MHz	Temp./Humi.	:23.4/63
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
190.05	Peak	39.90	-12.94	26.96	43.50	-16.54
241.46	Peak	40.41	-10.05	30.36	46.00	-15.64
252.13	Peak	41.82	-9.13	32.69	46.00	-13.31
320.03	Peak	37.77	-7.78	29.99	46.00	-16.01
335.55	Peak	39.59	-7.67	31.92	46.00	-14.08
370.47	Peak	39.21	-6.90	32.31	46.00	-13.69

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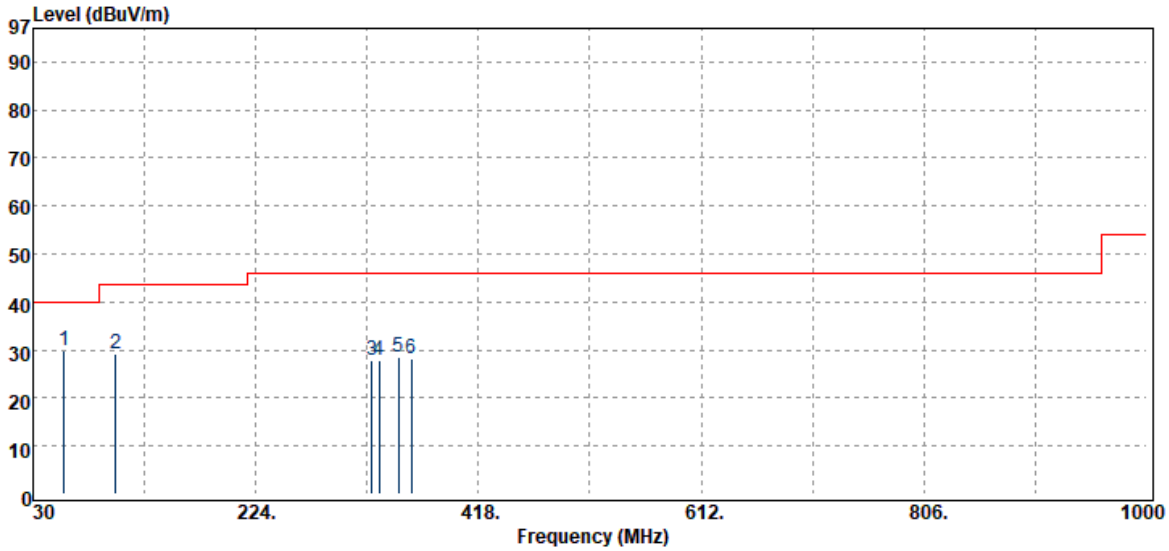
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11ac80	Test Date	:2020-10-26
Test Frequency	:5775 MHz	Temp./Humi.	:23.4/63
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	46.60	-16.69	29.91	40.00	-10.09
101.78	Peak	41.50	-12.29	29.21	43.50	-14.29
324.88	Peak	35.46	-7.73	27.73	46.00	-18.27
331.67	Peak	35.44	-7.67	27.77	46.00	-18.23
348.16	Peak	36.11	-7.47	28.64	46.00	-17.36
359.80	Peak	35.16	-6.82	28.34	46.00	-17.66

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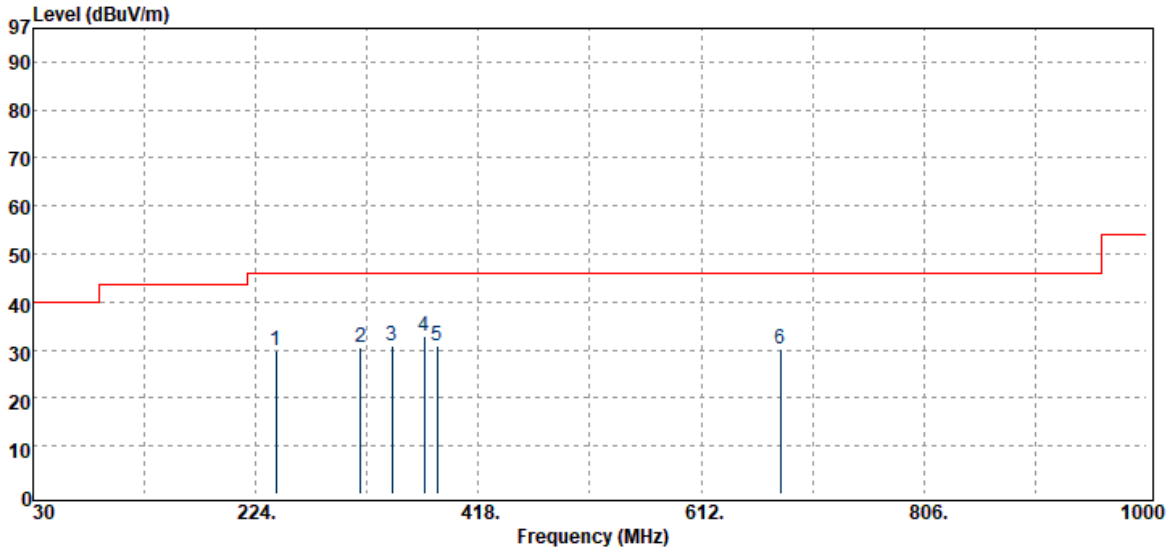
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11ac80	Test Date	:2020-10-26
Test Frequency	:5775 MHz	Temp./Humi.	:23.4/63
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
241.46	Peak	39.77	-10.05	29.72	46.00	-16.28
315.18	Peak	38.33	-7.90	30.43	46.00	-15.57
342.34	Peak	38.65	-7.62	31.03	46.00	-14.97
370.47	Peak	39.67	-6.90	32.77	46.00	-13.23
382.11	Peak	37.80	-6.83	30.97	46.00	-15.03
680.87	Peak	32.45	-2.10	30.35	46.00	-15.65

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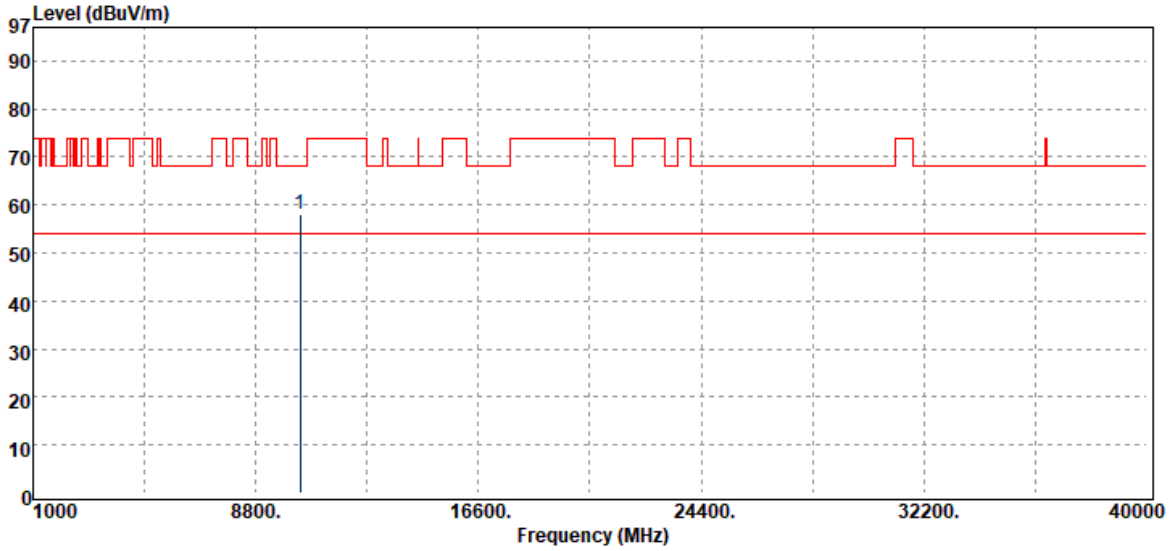
11.7.2 Above 1GHz Worst-Case Data:

Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-21
Test Frequency	:5180 MHz	Temp./Humi.	:23.2/65
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	31.73	26.38	58.11	68.20	-10.09

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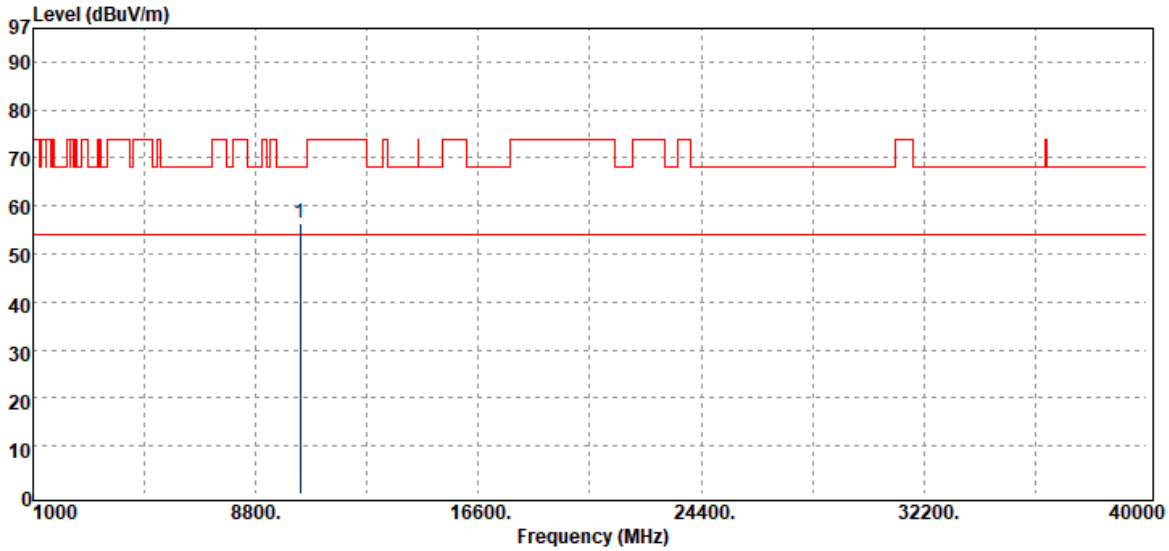
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-21
Test Frequency	:5180 MHz	Temp./Humi.	:23.2/65
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	30.13	26.38	56.51	68.20	-11.69

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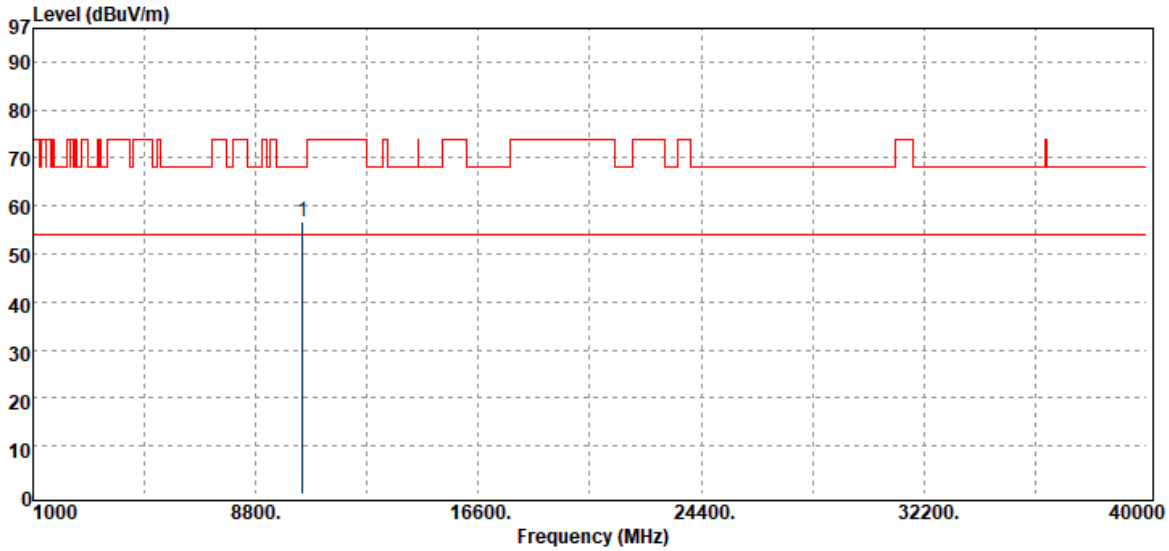
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-21
Test Frequency	:5220 MHz	Temp./Humi.	:23.2/65
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	30.03	26.76	56.79	68.20	-11.41

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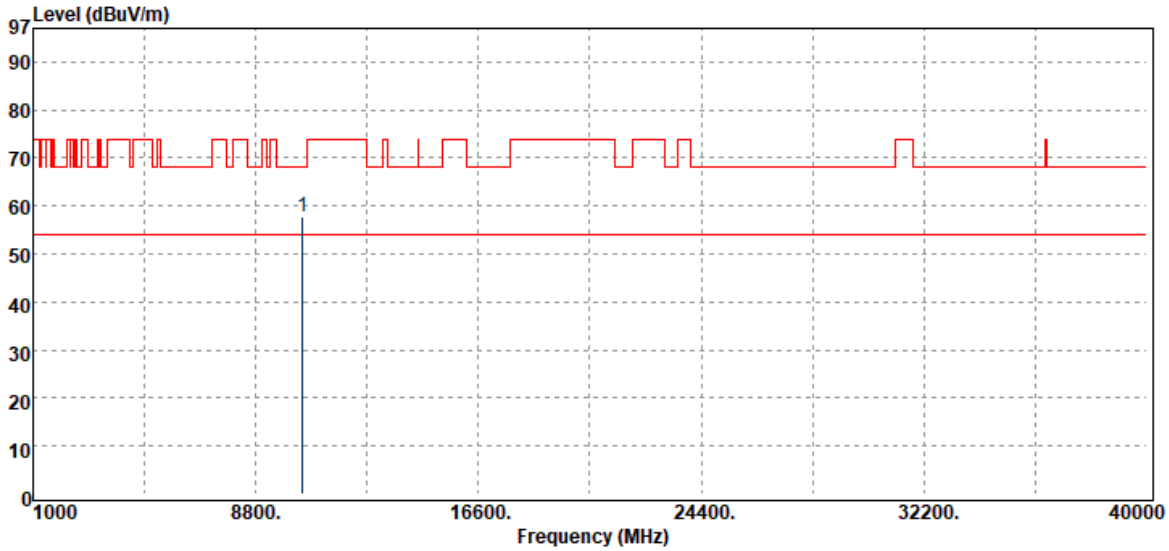
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-21
Test Frequency	:5220 MHz	Temp./Humi.	:23.2/65
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	31.11	26.76	57.87	68.20	-10.33

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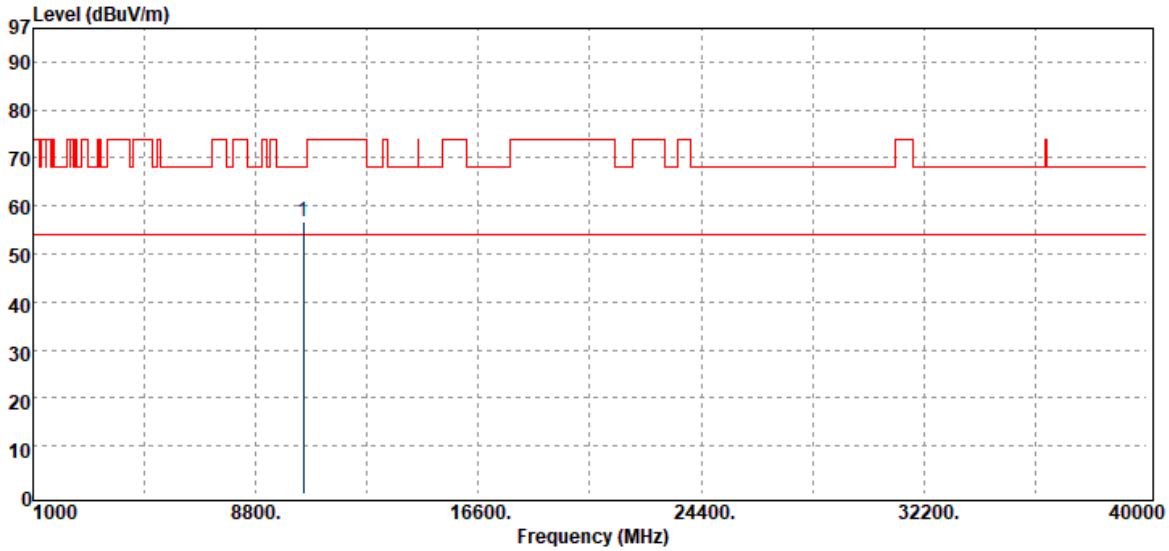
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-21
Test Frequency	:5240 MHz	Temp./Humi.	:23.2/65
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	30.24	26.40	56.64	68.20	-11.56

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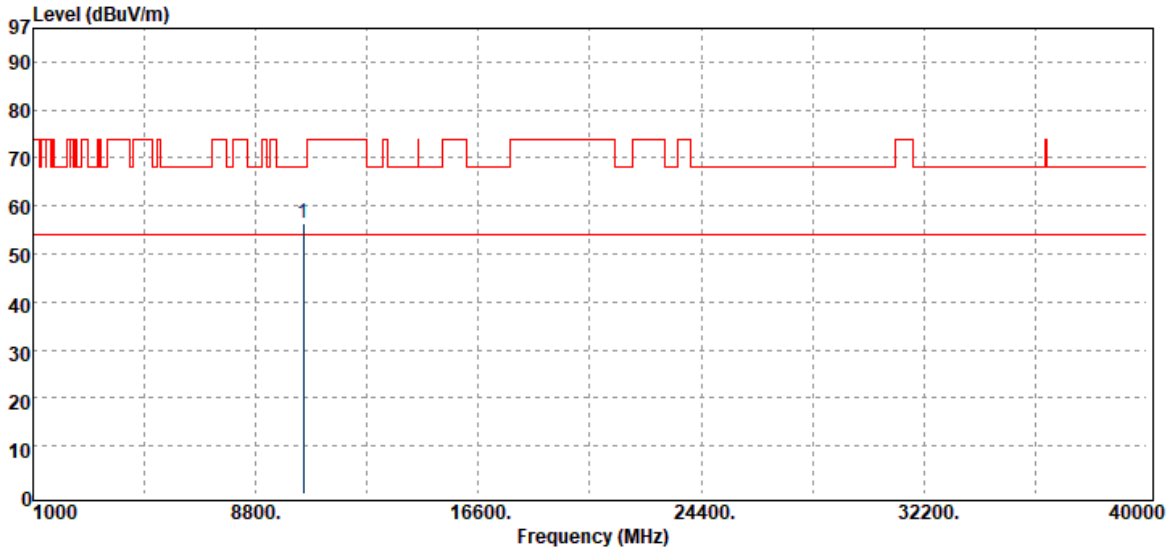
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-21
Test Frequency	:5240 MHz	Temp./Humi.	:23.2/65
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	29.96	26.40	56.36	68.20	-11.84

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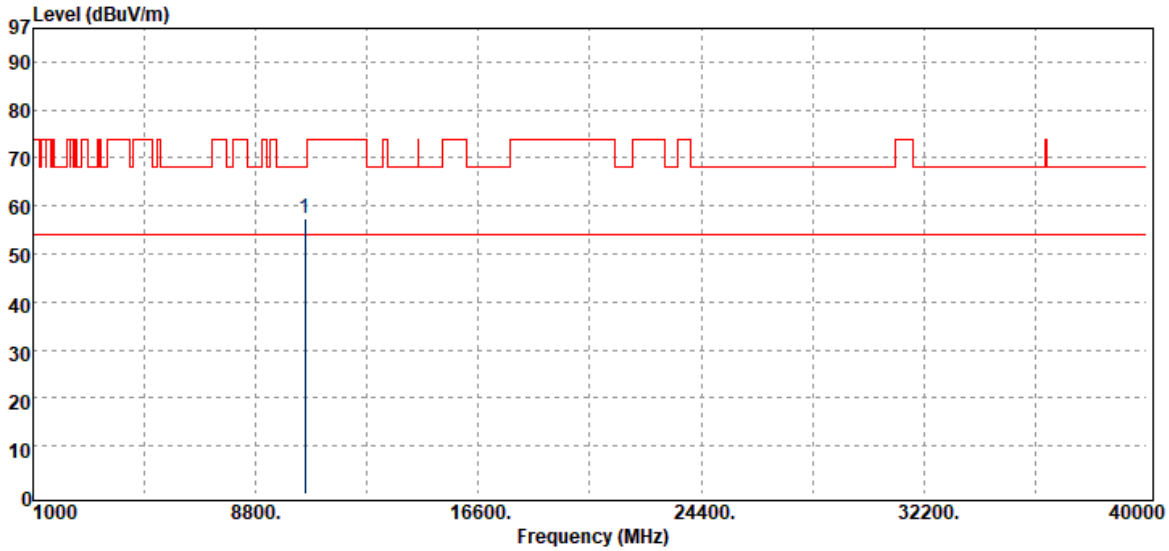
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-21
Test Frequency	:5260 MHz	Temp./Humi.	:23.2/65
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	30.93	26.32	57.25	68.20	-10.95

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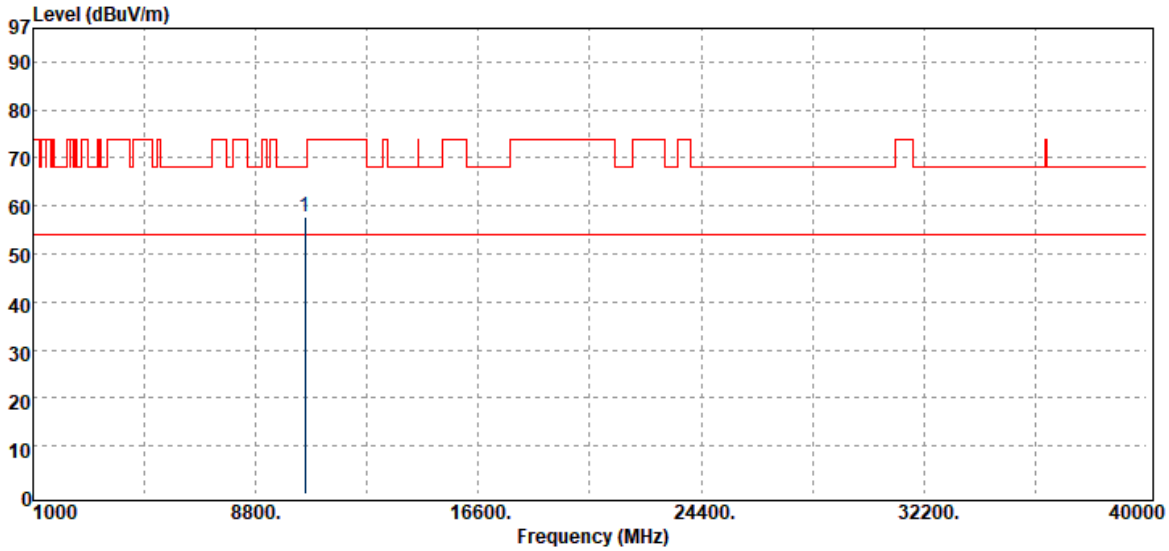
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-21
Test Frequency	:5260 MHz	Temp./Humi.	:23.2/65
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	31.53	26.32	57.85	68.20	-10.35

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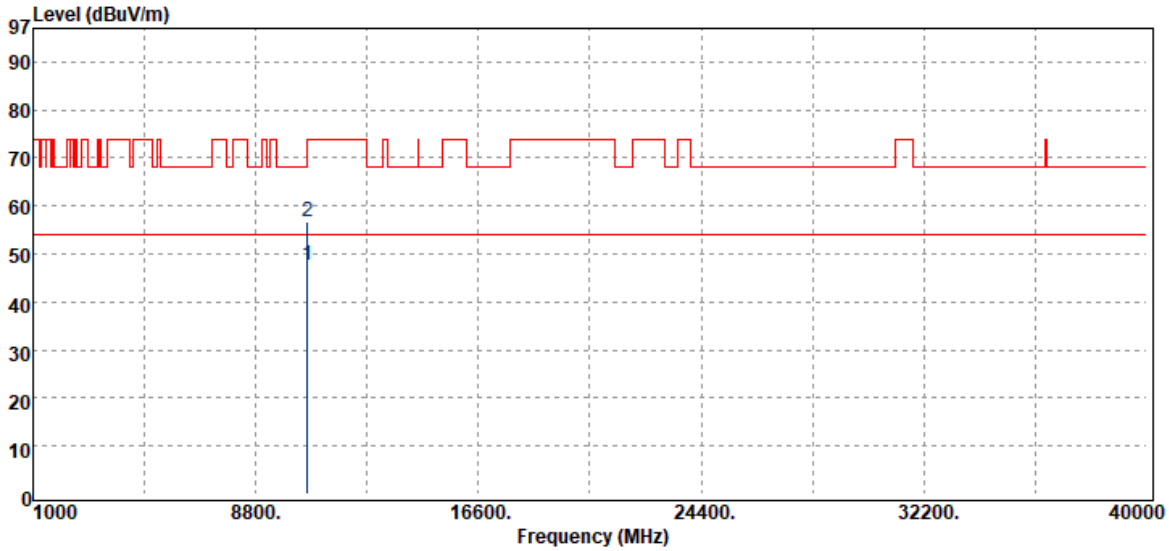
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-21
Test Frequency	:5300 MHz	Temp./Humi.	:23.2/65
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	20.95	26.78	47.73	54.00	-6.27
10600.00	Peak	29.83	26.78	56.61	74.00	-17.39

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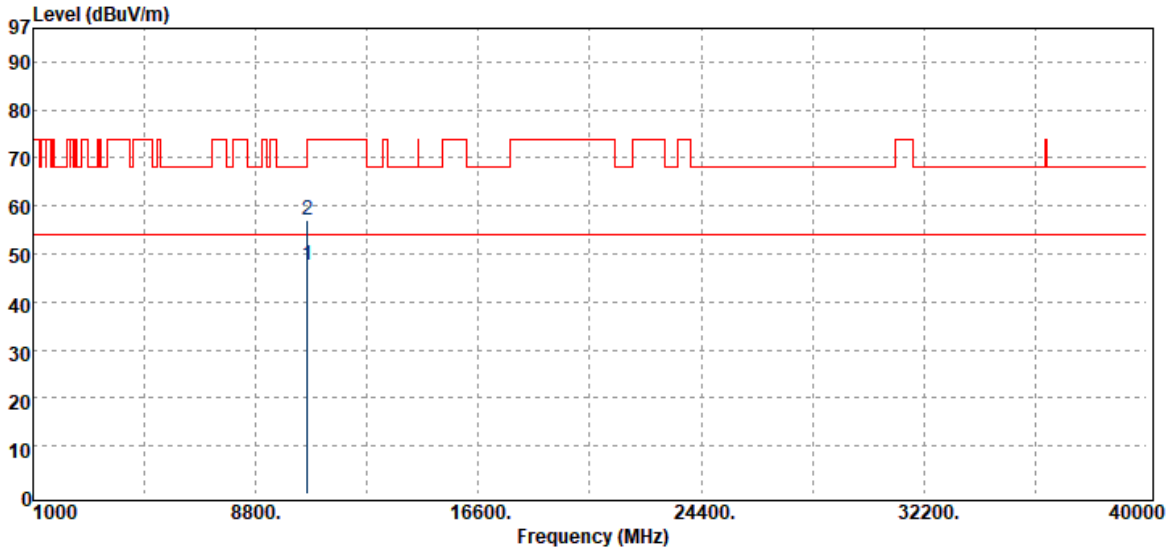
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-21
Test Frequency	:5300 MHz	Temp./Humi.	:23.2/65
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	20.83	26.78	47.61	54.00	-6.39
10600.00	Peak	30.25	26.78	57.03	74.00	-16.97

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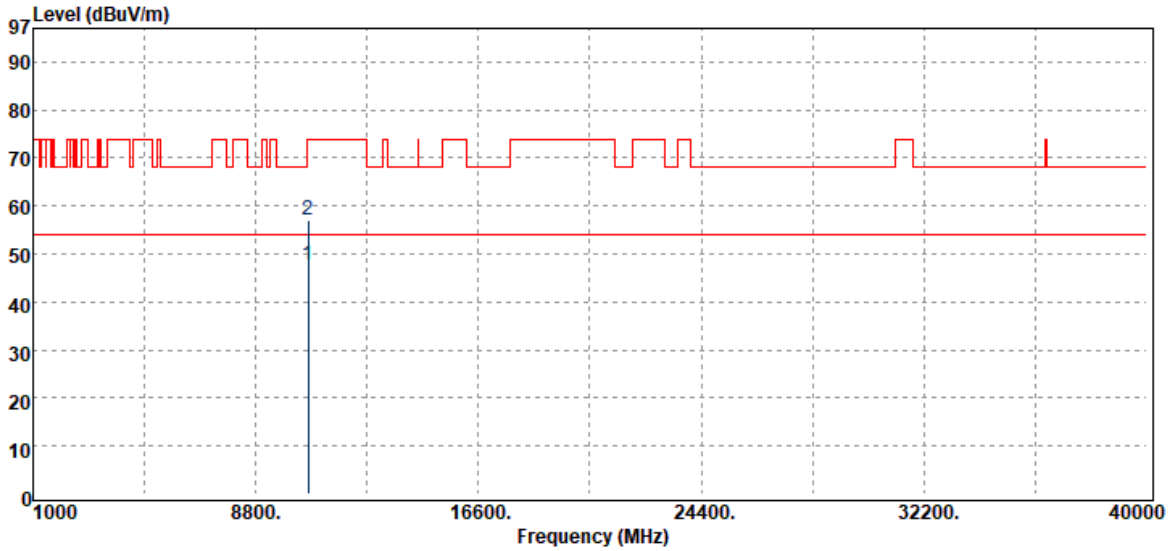
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-21
Test Frequency	:5320 MHz	Temp./Humi.	:23.2/65
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	21.13	26.51	47.64	54.00	-6.36
10640.00	Peak	30.50	26.51	57.01	74.00	-16.99

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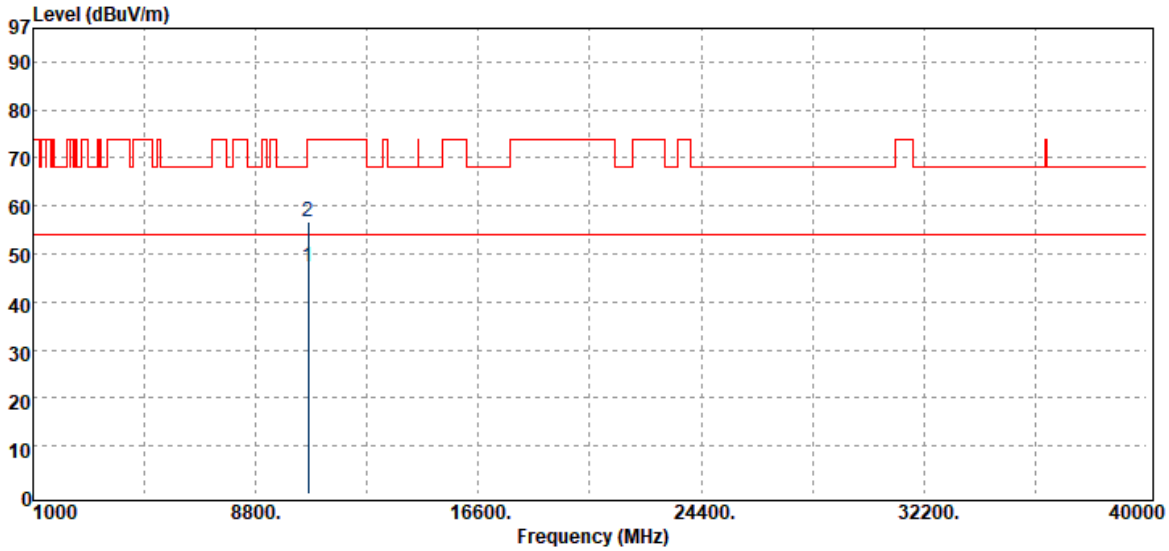
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-21
Test Frequency	:5320 MHz	Temp./Humi.	:23.2/65
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	20.97	26.51	47.48	54.00	-6.52
10640.00	Peak	30.15	26.51	56.66	74.00	-17.34

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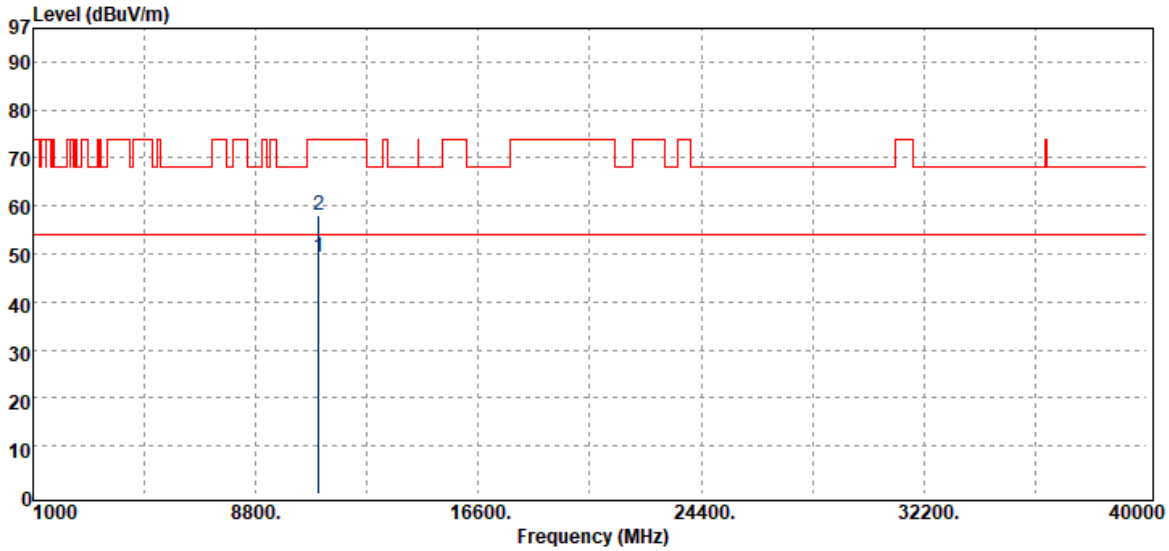
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-21
Test Frequency	:5500 MHz	Temp./Humi.	:23.2/65
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	21.95	27.32	49.27	54.00	-4.73
11000.00	Peak	30.77	27.32	58.09	74.00	-15.91

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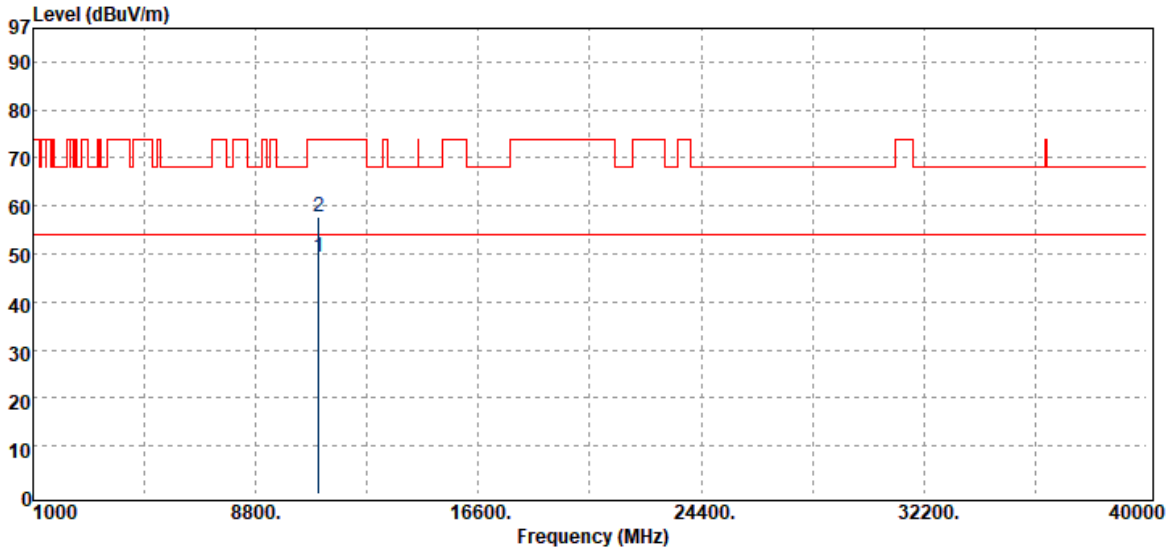
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-21
Test Frequency	:5500 MHz	Temp./Humi.	:23.2/65
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	21.93	27.32	49.25	54.00	-4.75
11000.00	Peak	30.47	27.32	57.79	74.00	-16.21

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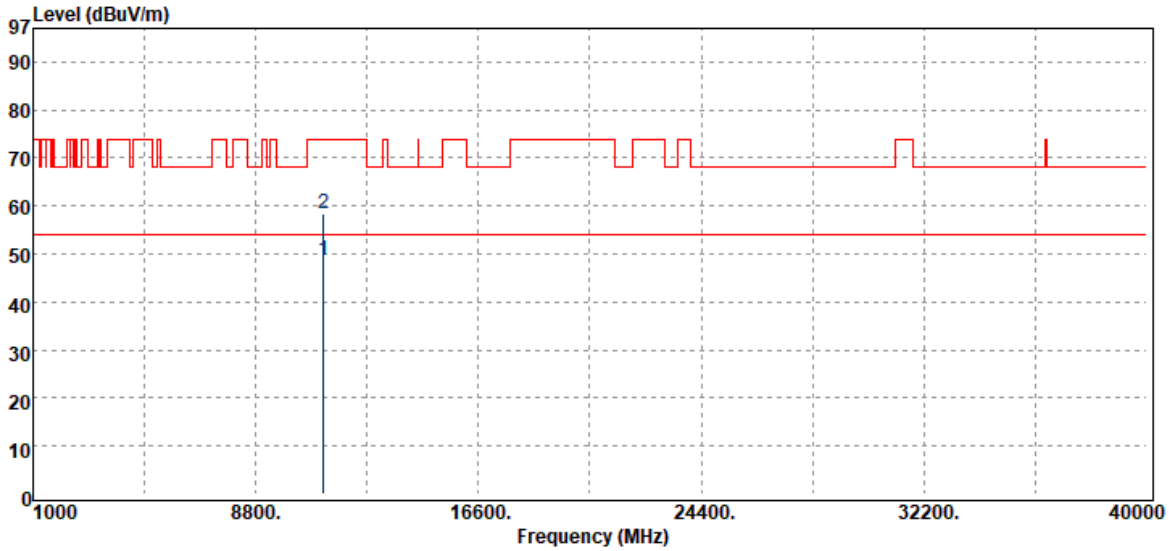
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-21
Test Frequency	:5580 MHz	Temp./Humi.	:23.2/65
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	21.57	26.98	48.55	54.00	-5.45
11160.00	Peak	31.56	26.98	58.54	74.00	-15.46

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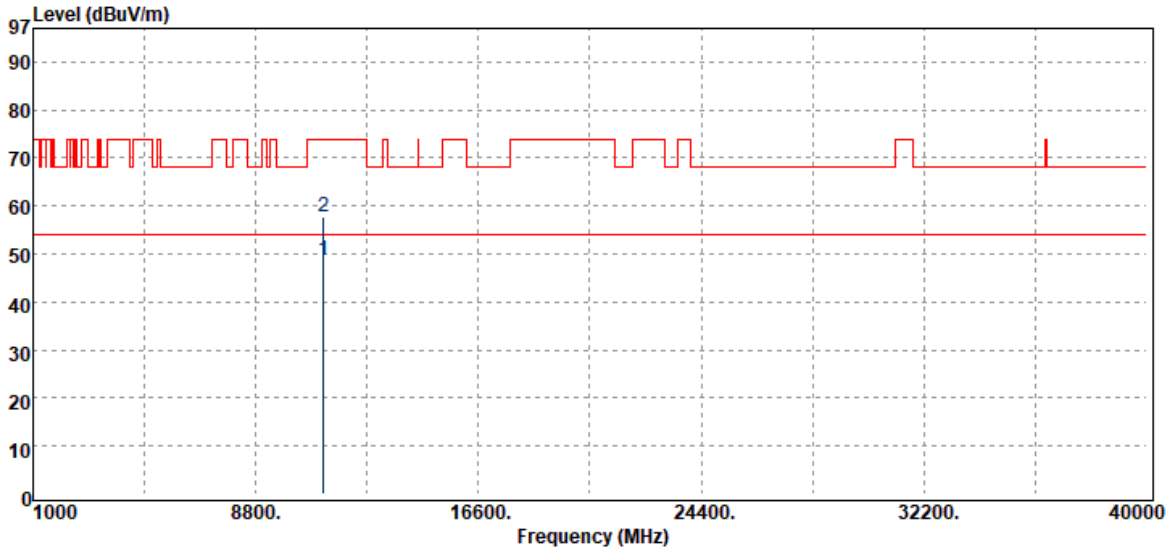
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-21
Test Frequency	:5580 MHz	Temp./Humi.	:23.2/65
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	21.63	26.98	48.61	54.00	-5.39
11160.00	Peak	30.73	26.98	57.71	74.00	-16.29

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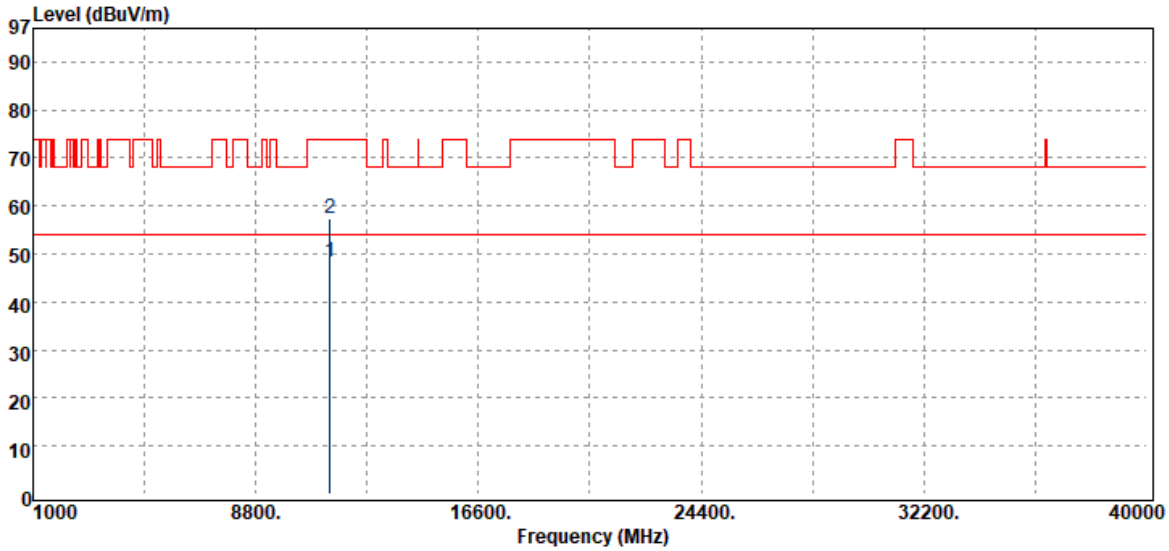
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-21
Test Frequency	:5700 MHz	Temp./Humi.	:23.2/65
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	20.65	27.54	48.19	54.00	-5.81
11400.00	Peak	29.71	27.54	57.25	74.00	-16.75

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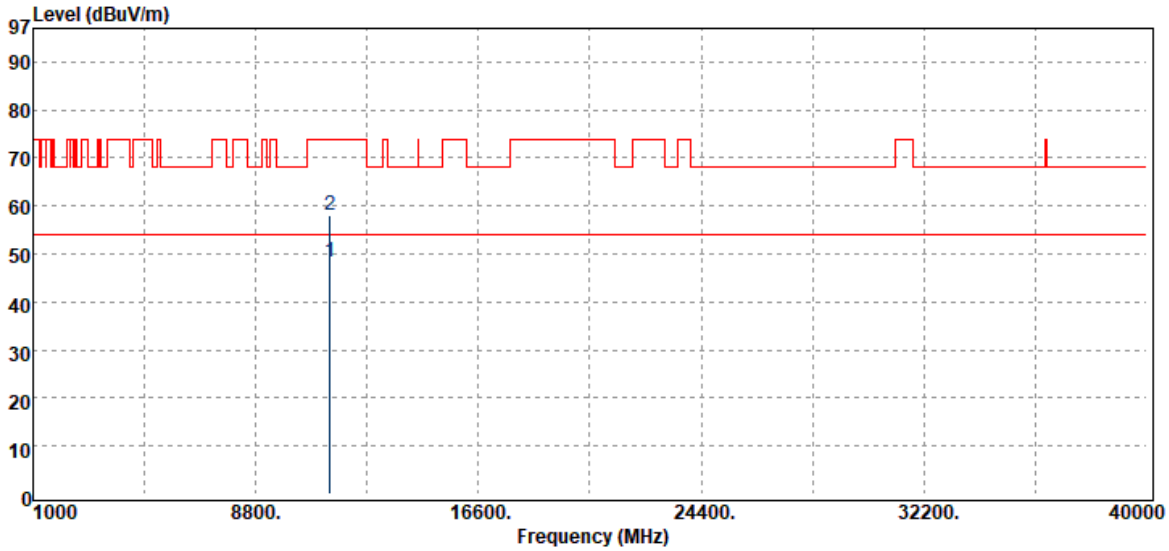
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-21
Test Frequency	:5700 MHz	Temp./Humi.	:23.2/65
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	20.67	27.54	48.21	54.00	-5.79
11400.00	Peak	30.50	27.54	58.04	74.00	-15.96

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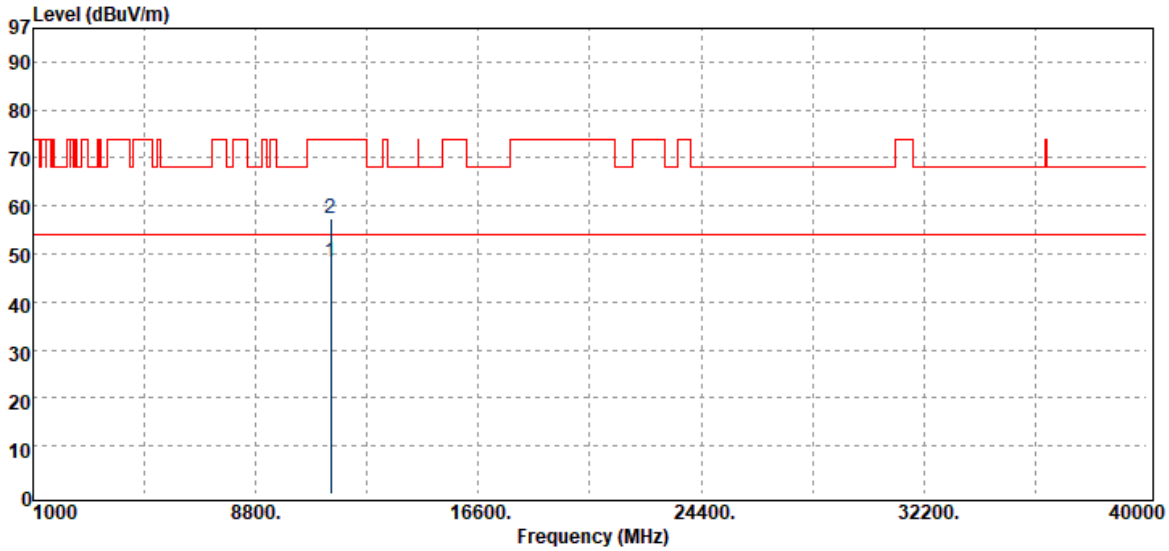
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-21
Test Frequency	:5720 MHz	Temp./Humi.	:23.2/65
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11440.00	Average	20.57	27.76	48.33	54.00	-5.67
11440.00	Peak	29.48	27.76	57.24	74.00	-16.76

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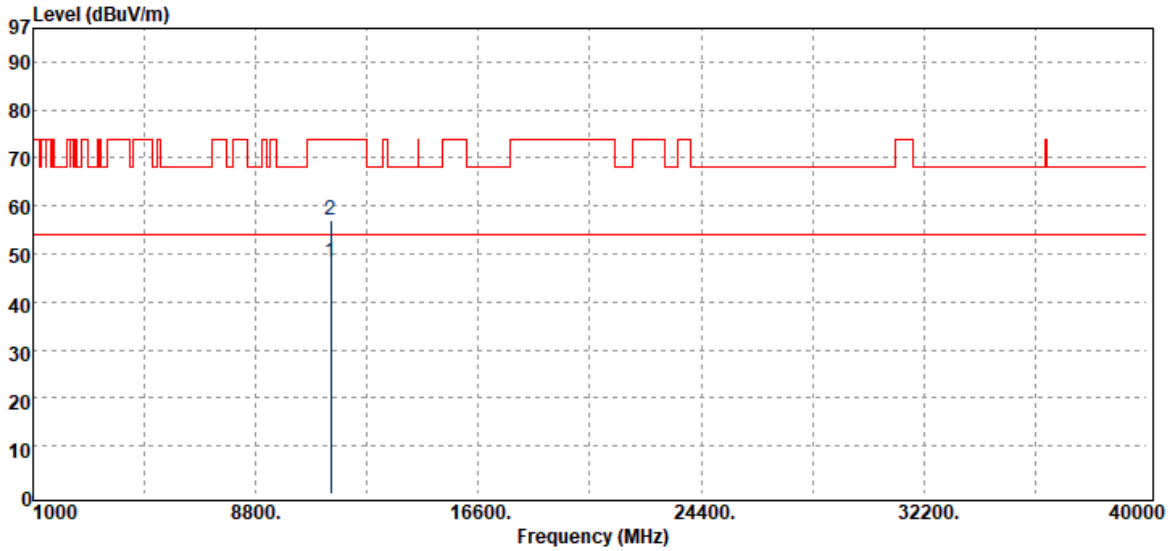
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-21
Test Frequency	:5720 MHz	Temp./Humi.	:23.2/65
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11440.00	Average	20.53	27.76	48.29	54.00	-5.71
11440.00	Peak	29.35	27.76	57.11	74.00	-16.89

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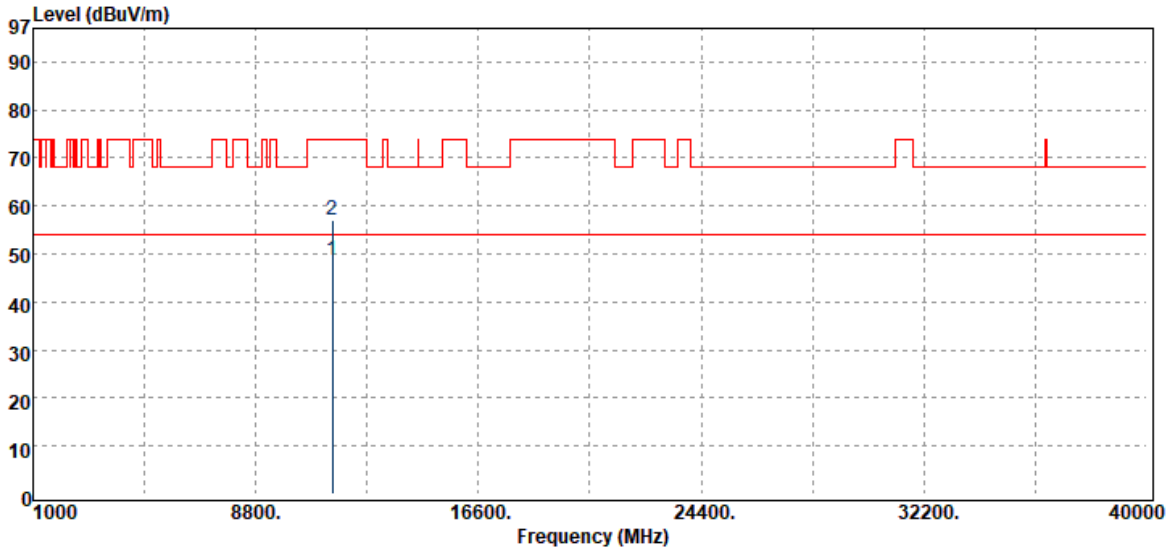
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-21
Test Frequency	:5745 MHz	Temp./Humi.	:23.2/65
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	20.59	28.07	48.66	54.00	-5.34
11490.00	Peak	28.96	28.07	57.03	74.00	-16.97

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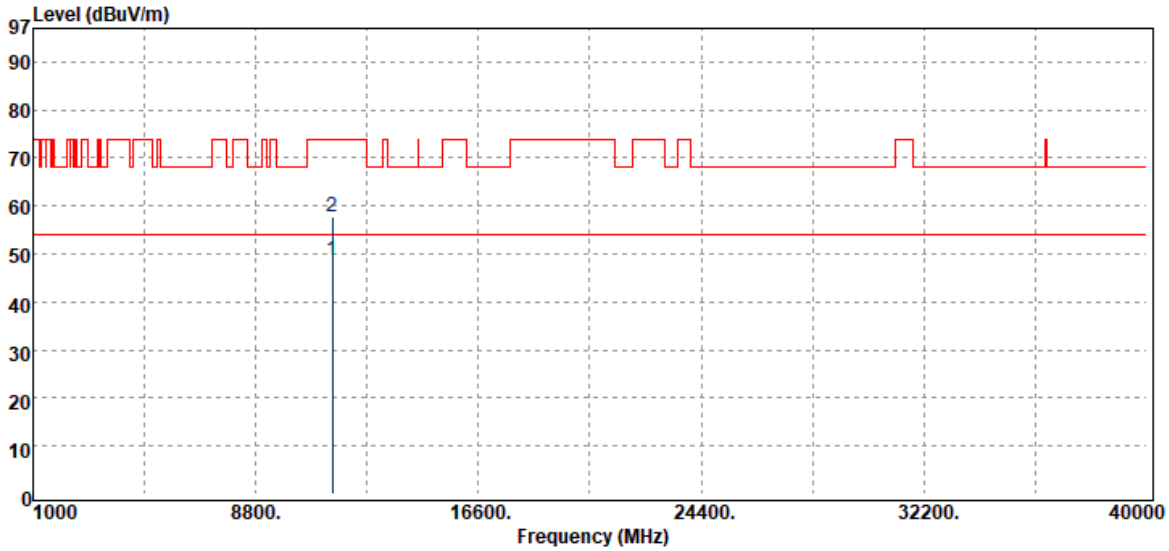
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-21
Test Frequency	:5745 MHz	Temp./Humi.	:23.2/65
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	20.62	28.07	48.69	54.00	-5.31
11490.00	Peak	29.55	28.07	57.62	74.00	-16.38

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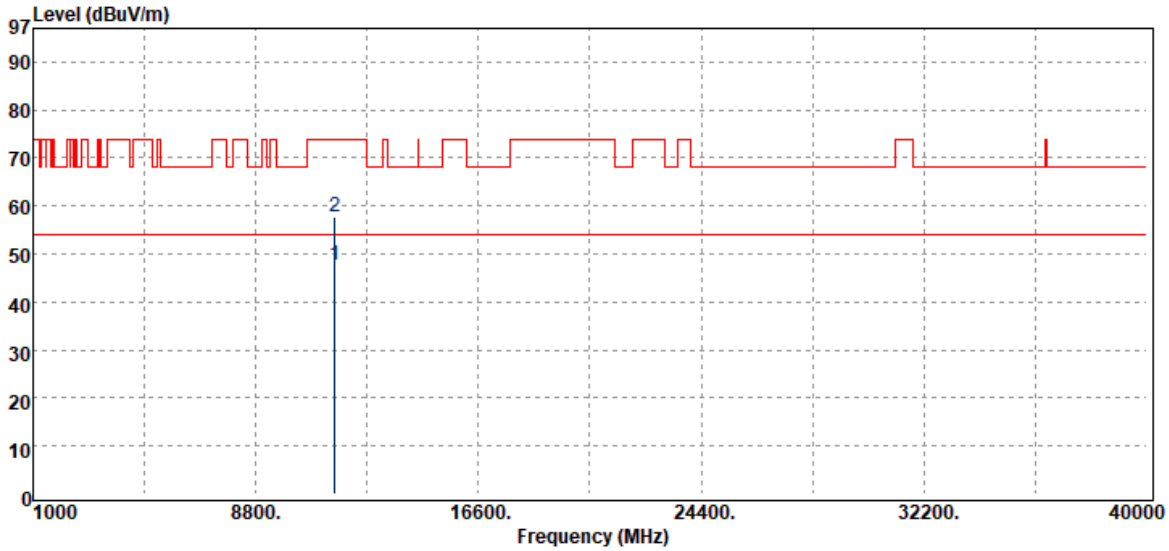
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-21
Test Frequency	:5785 MHz	Temp./Humi.	:23.2/65
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	20.56	27.18	47.74	54.00	-6.26
11570.00	Peak	30.57	27.18	57.75	74.00	-16.25

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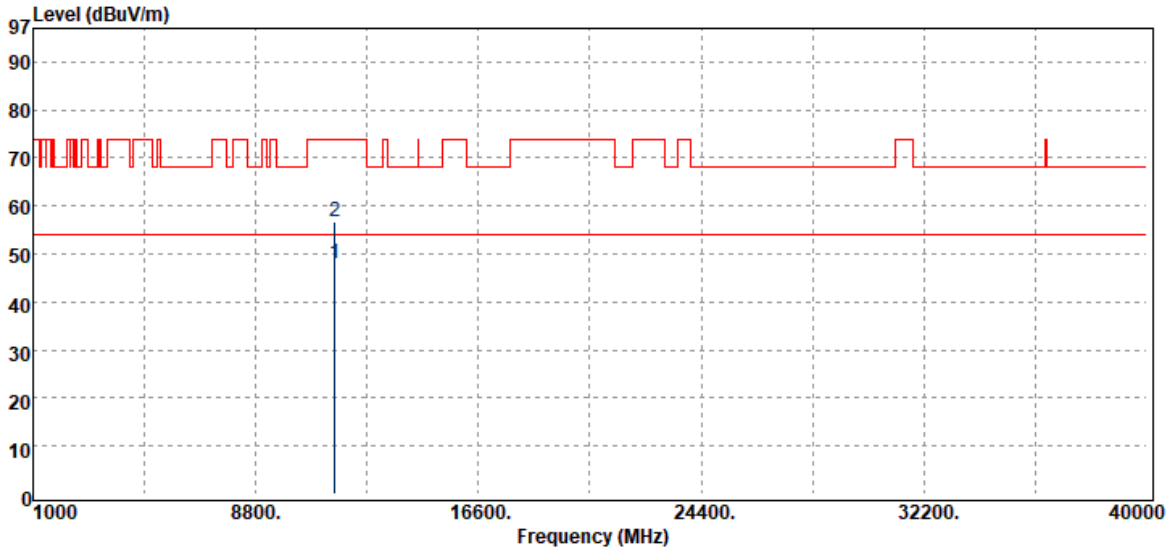
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-21
Test Frequency	:5785 MHz	Temp./Humi.	:23.2/65
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	20.80	27.18	47.98	54.00	-6.02
11570.00	Peak	29.44	27.18	56.62	74.00	-17.38

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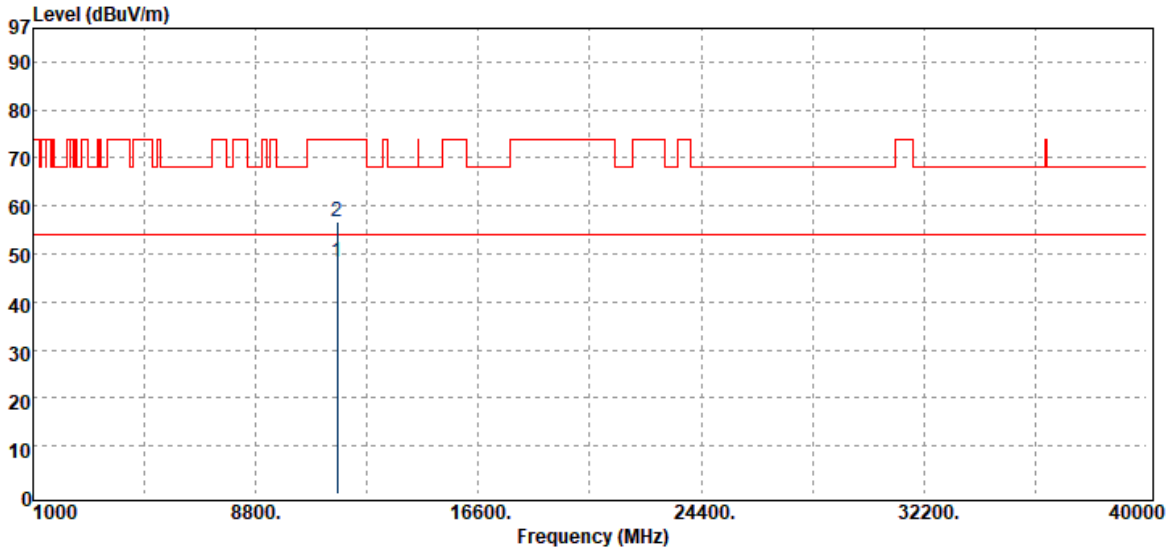
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-21
Test Frequency	:5825 MHz	Temp./Humi.	:23.2/65
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	20.68	27.69	48.37	54.00	-5.63
11650.00	Peak	29.05	27.69	56.74	74.00	-17.26

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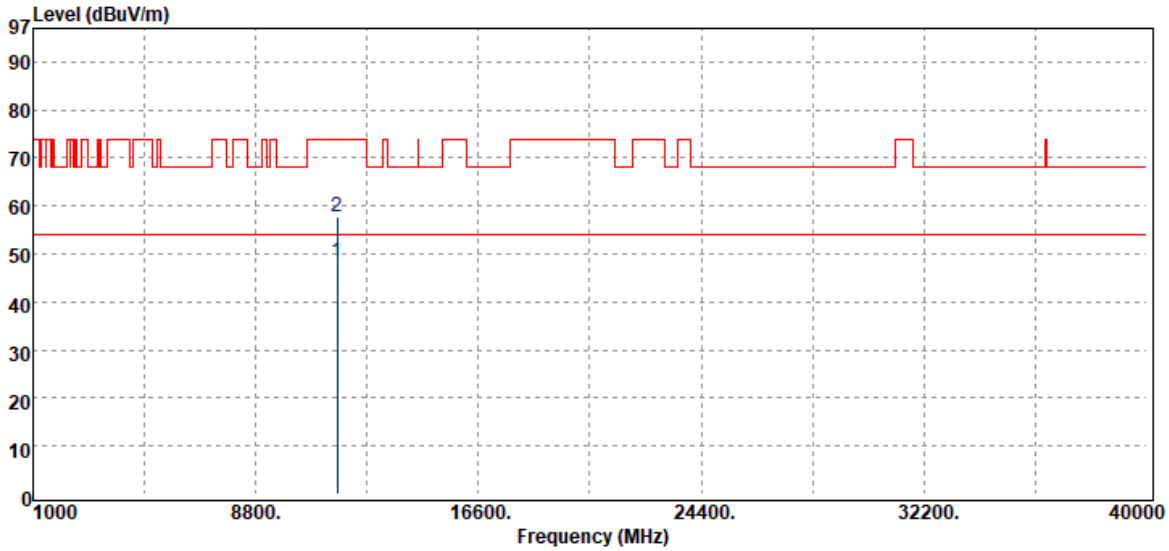
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-21
Test Frequency	:5825 MHz	Temp./Humi.	:23.2/65
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	20.71	27.69	48.40	54.00	-5.60
11650.00	Peak	29.99	27.69	57.68	74.00	-16.32

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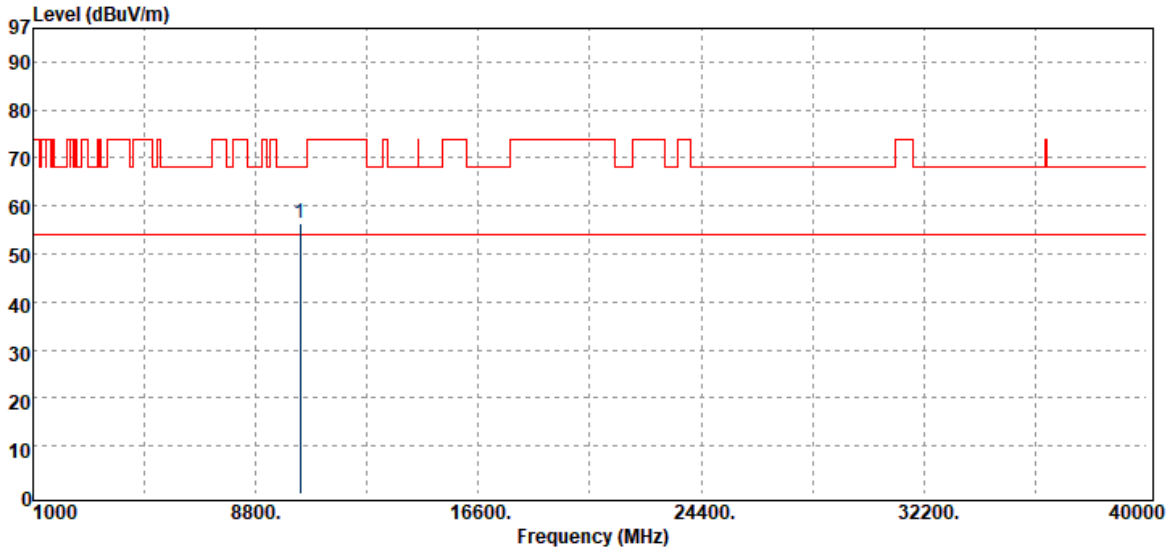
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n20	Test Date	:2020-10-21
Test Frequency	:5180 MHz	Temp./Humi.	:23.2/65
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	29.92	26.38	56.30	68.20	-11.90

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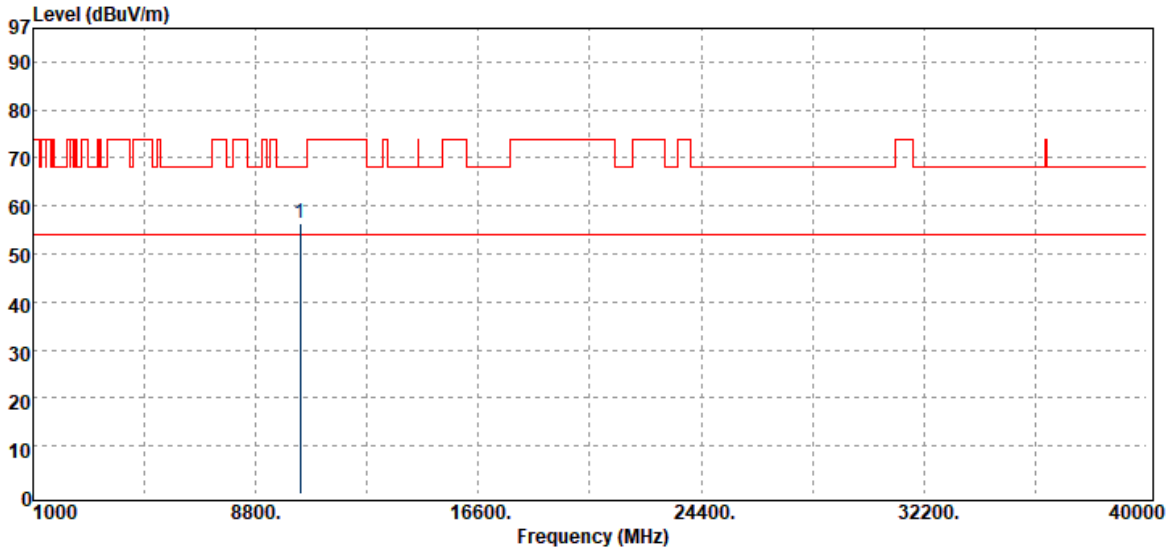
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n20	Test Date	:2020-10-21
Test Frequency	:5180 MHz	Temp./Humi.	:23.2/65
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	30.14	26.38	56.52	68.20	-11.68

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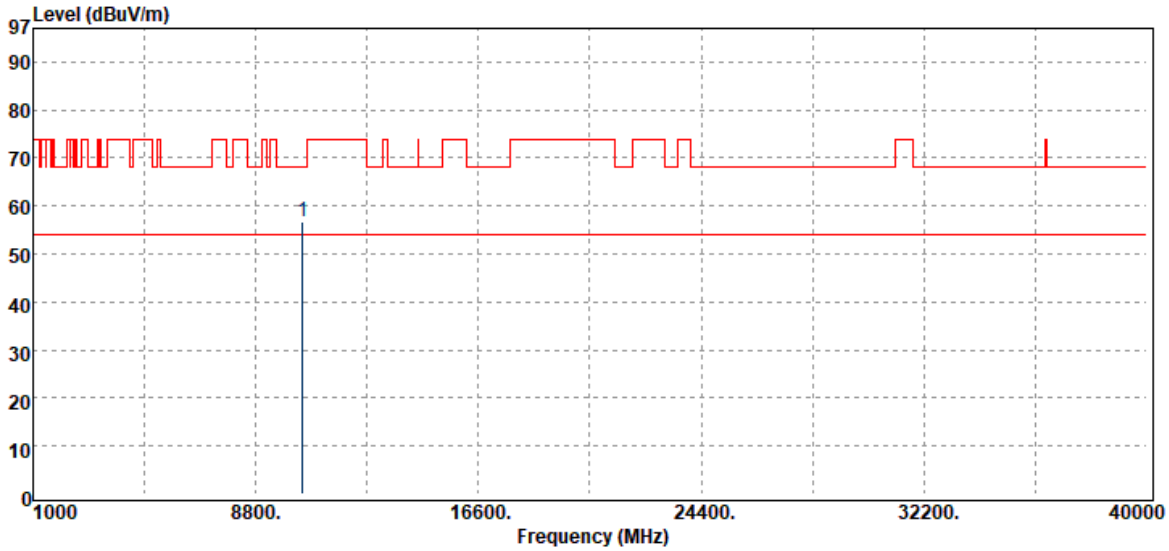
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n20	Test Date	:2020-10-21
Test Frequency	:5220 MHz	Temp./Humi.	:23.2/65
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	29.83	26.76	56.59	68.20	-11.61

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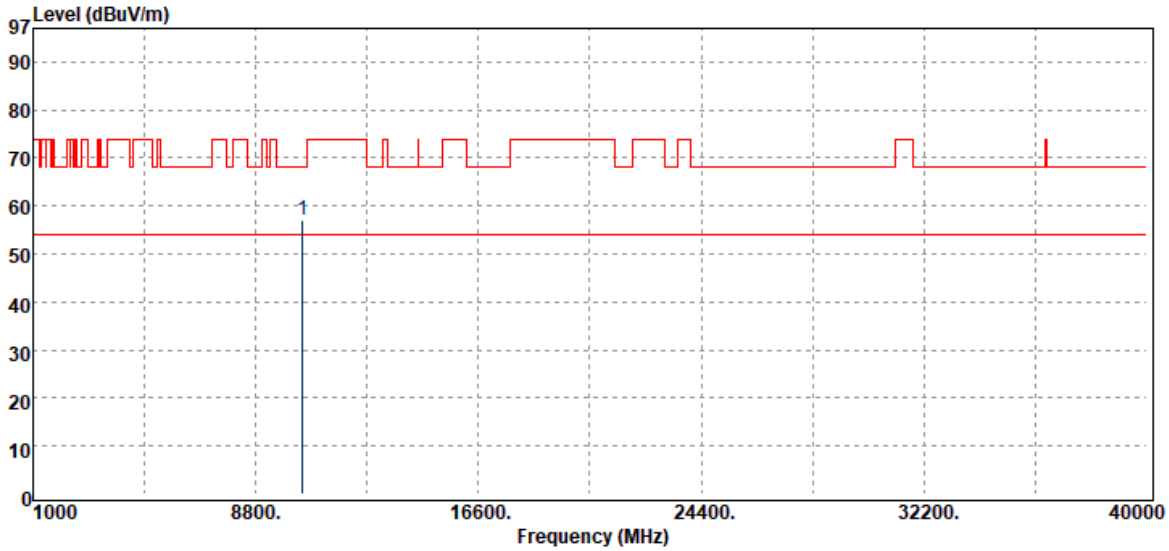
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n20	Test Date	:2020-10-21
Test Frequency	:5220 MHz	Temp./Humi.	:23.2/65
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	30.39	26.76	57.15	68.20	-11.05

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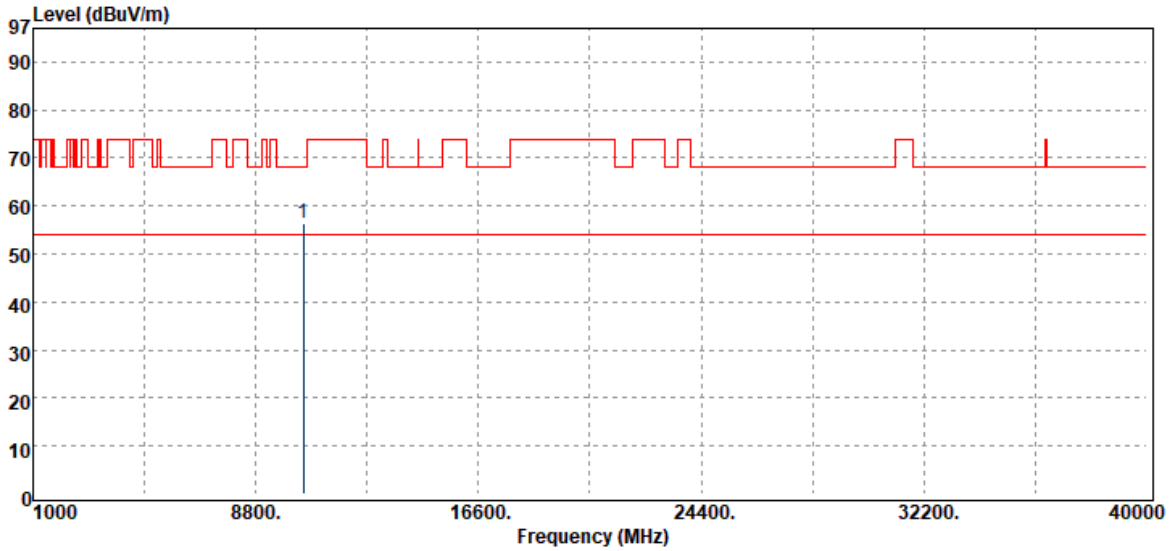
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n20	Test Date	:2020-10-21
Test Frequency	:5240 MHz	Temp./Humi.	:23.2/65
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	30.04	26.40	56.44	68.20	-11.76

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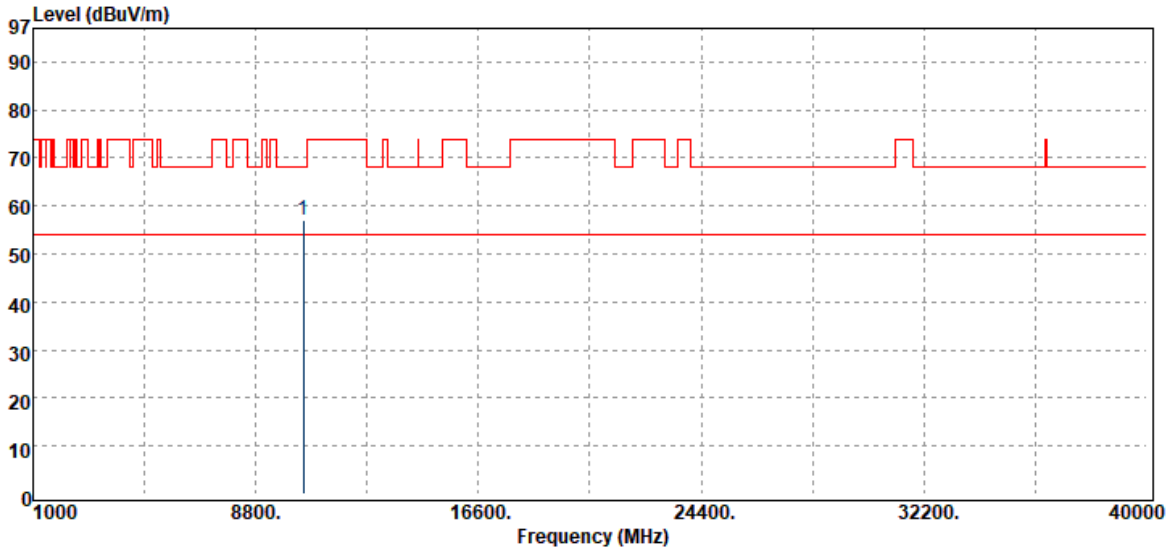
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n20	Test Date	:2020-10-21
Test Frequency	:5240 MHz	Temp./Humi.	:23.2/65
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	30.54	26.40	56.94	68.20	-11.26

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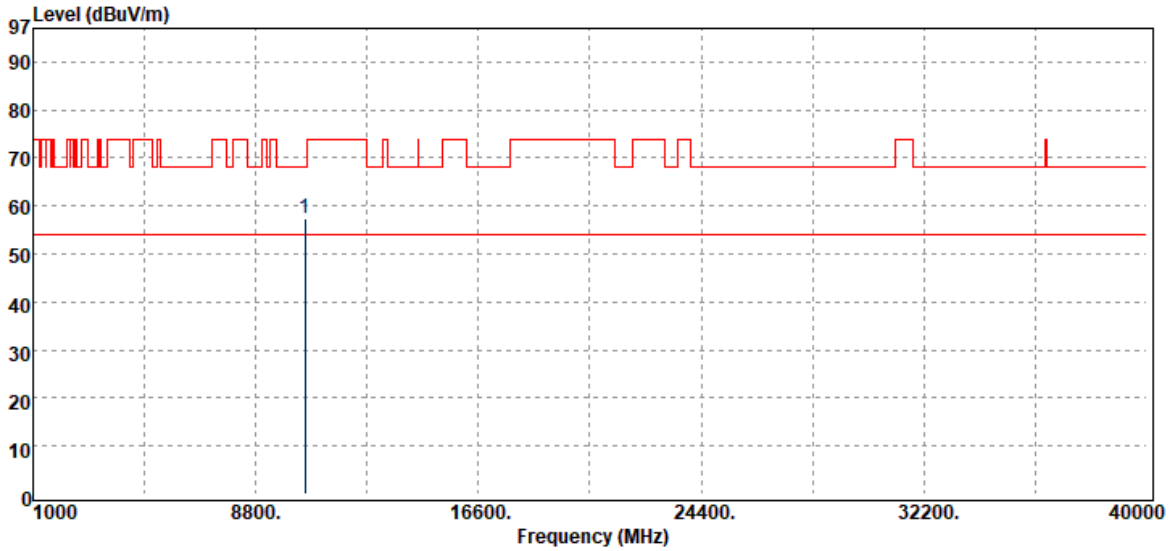
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n20	Test Date	:2020-10-21
Test Frequency	:5260 MHz	Temp./Humi.	:23.2/65
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	31.05	26.32	57.37	68.20	-10.83

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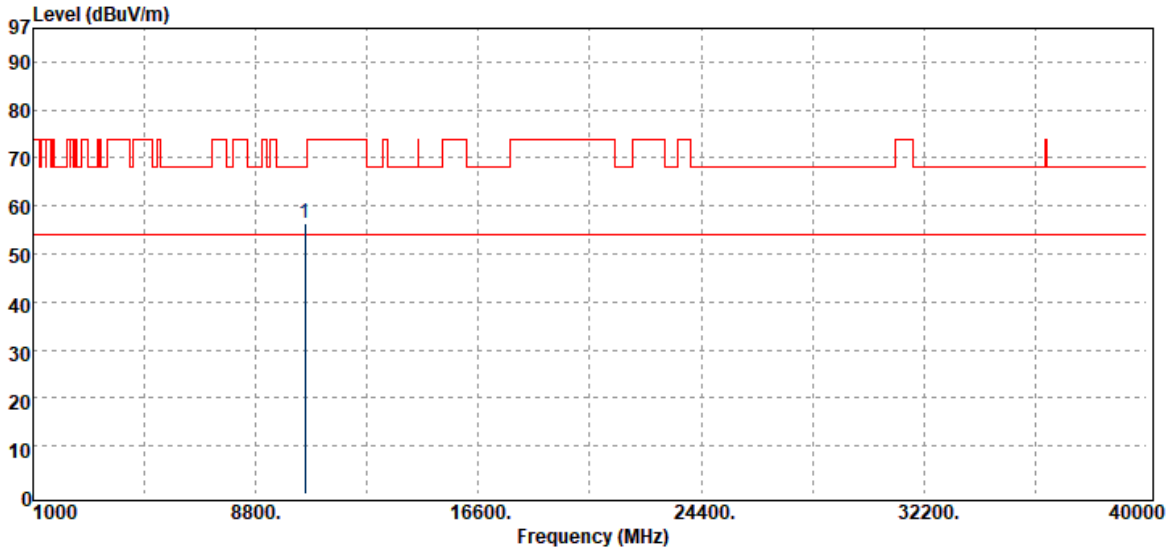
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n20	Test Date	:2020-10-21
Test Frequency	:5260 MHz	Temp./Humi.	:23.2/65
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	29.94	26.32	56.26	68.20	-11.94

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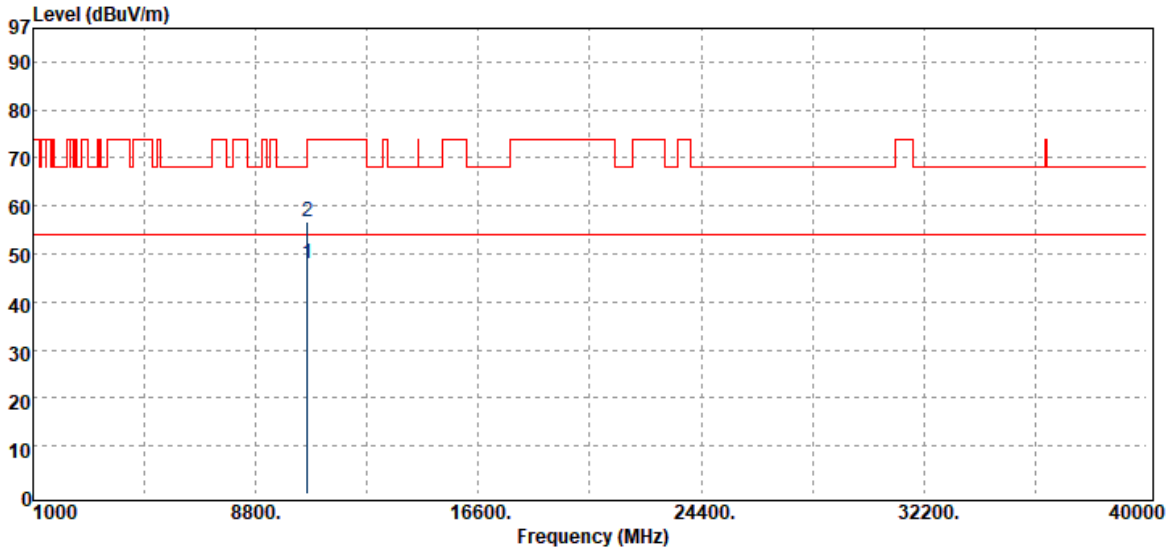
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n20	Test Date	:2020-10-21
Test Frequency	:5300 MHz	Temp./Humi.	:23.2/65
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	21.26	26.78	48.04	54.00	-5.96
10600.00	Peak	29.78	26.78	56.56	74.00	-17.44

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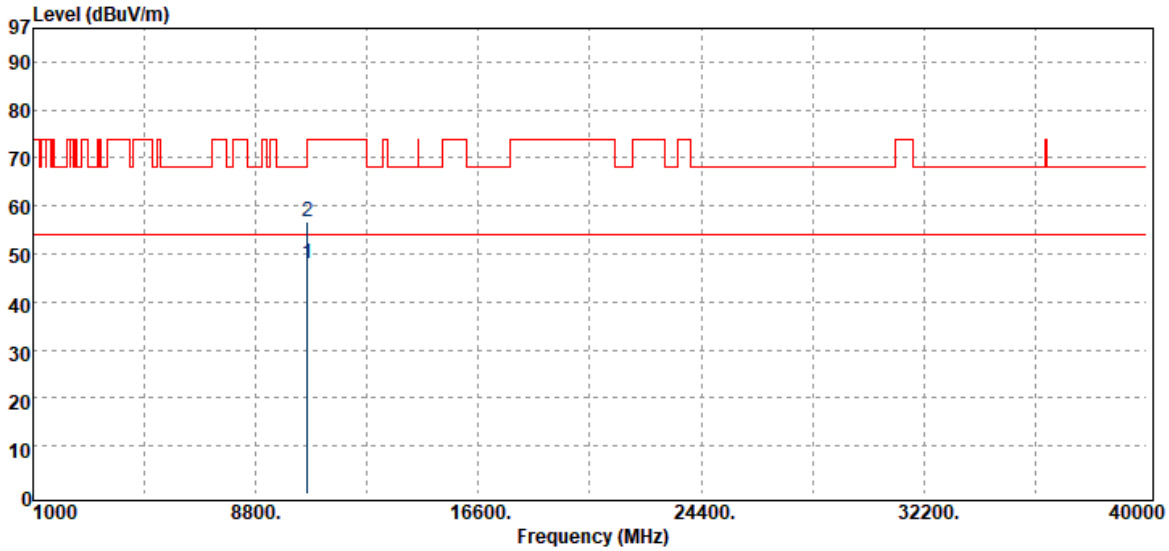
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n20	Test Date	:2020-10-21
Test Frequency	:5300 MHz	Temp./Humi.	:23.2/65
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	21.24	26.78	48.02	54.00	-5.98
10600.00	Peak	29.81	26.78	56.59	74.00	-17.41

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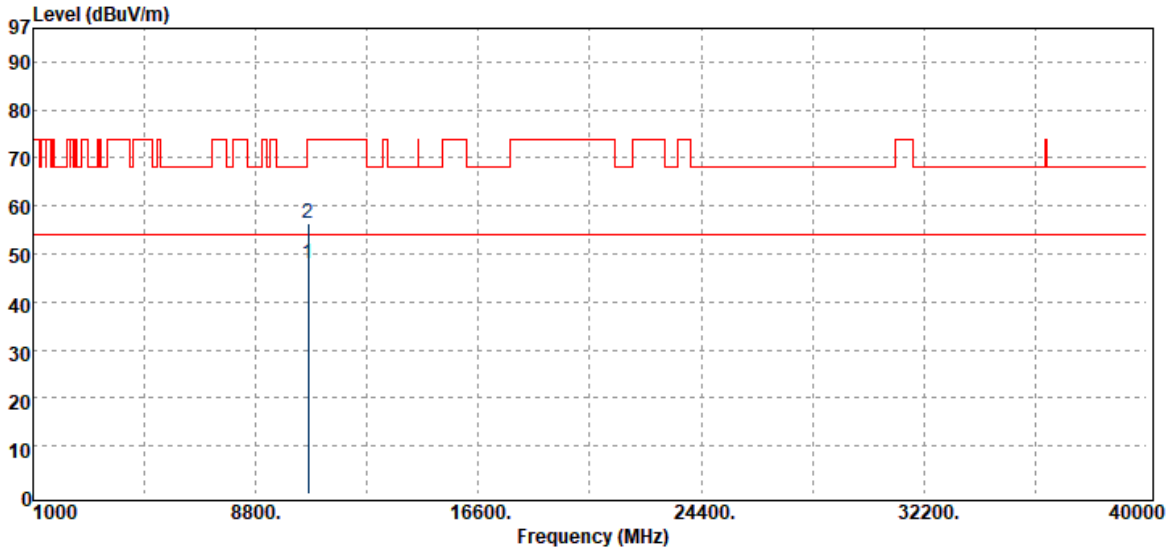
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n20	Test Date	:2020-10-21
Test Frequency	:5320 MHz	Temp./Humi.	:23.2/65
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	21.48	26.51	47.99	54.00	-6.01
10640.00	Peak	29.79	26.51	56.30	74.00	-17.70

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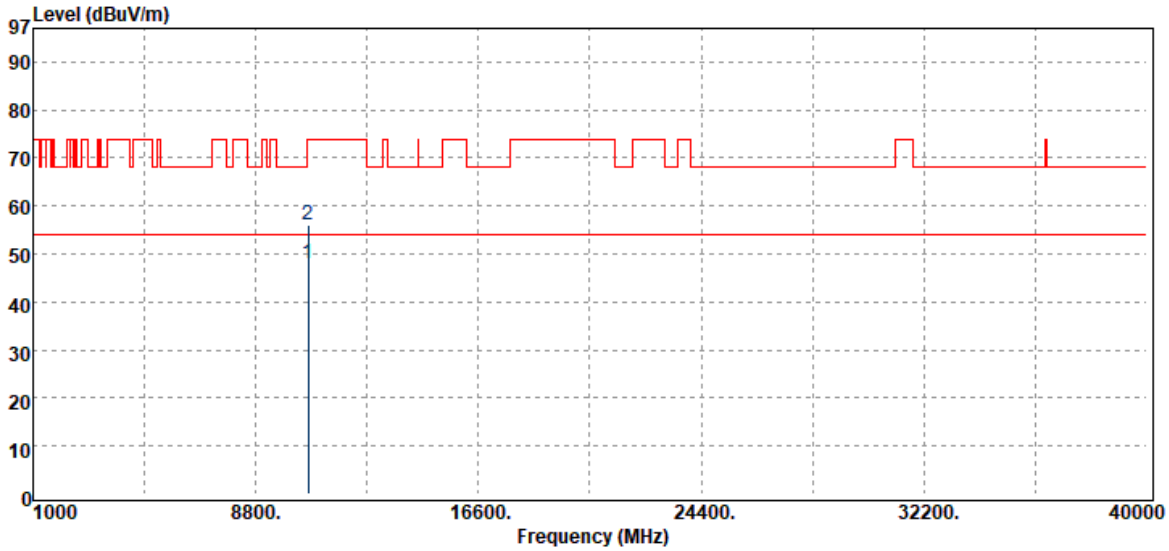
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n20	Test Date	:2020-10-21
Test Frequency	:5320 MHz	Temp./Humi.	:23.2/65
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	21.54	26.51	48.05	54.00	-5.95
10640.00	Peak	29.54	26.51	56.05	74.00	-17.95

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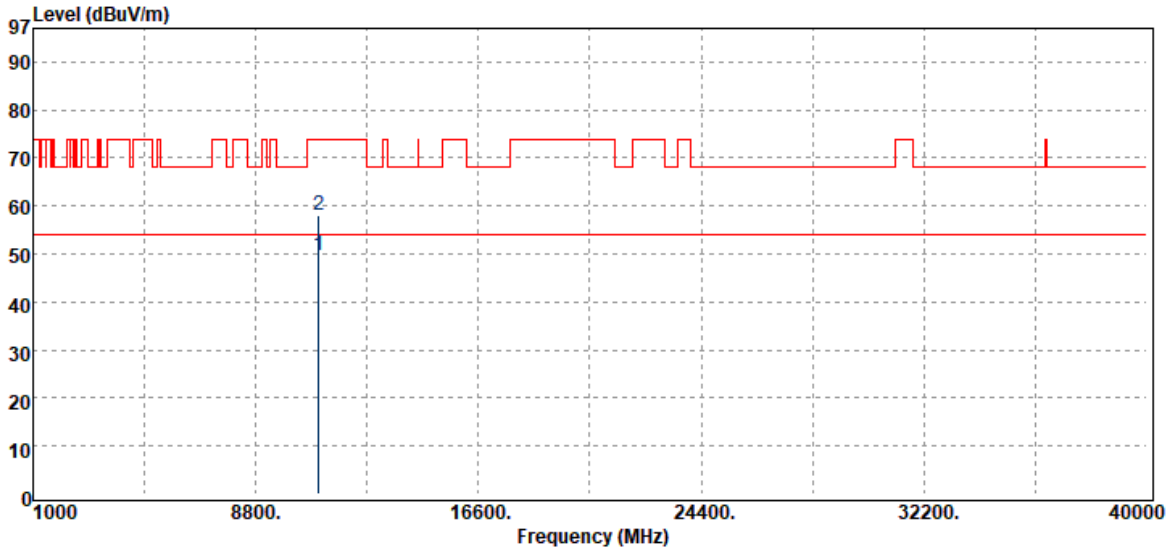
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n20	Test Date	:2020-10-22
Test Frequency	:5500 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	22.32	27.32	49.64	54.00	-4.36
11000.00	Peak	30.78	27.32	58.10	74.00	-15.90

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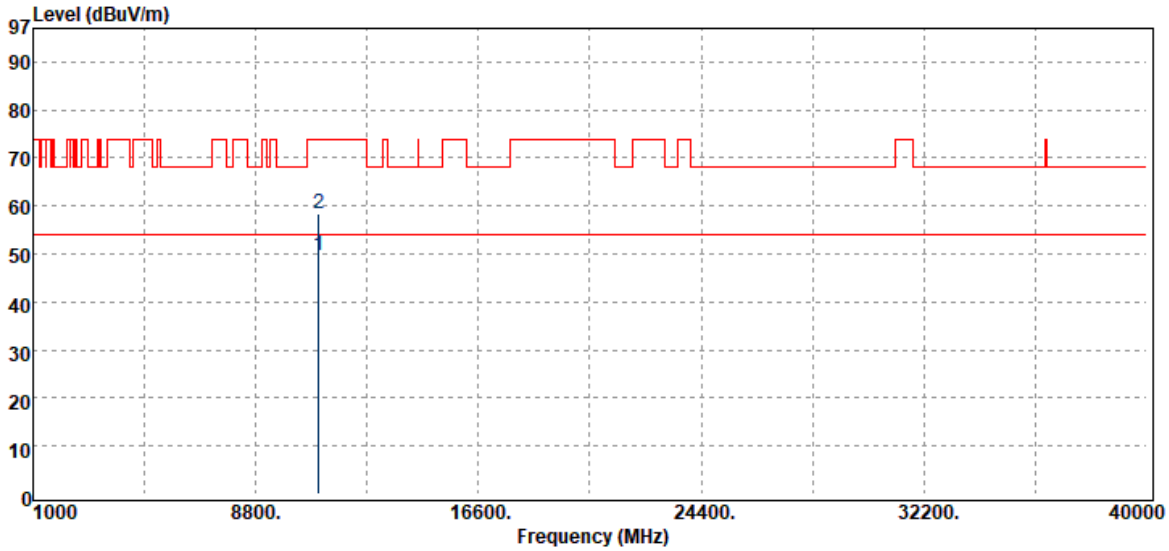
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n20	Test Date	:2020-10-22
Test Frequency	:5500 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	22.37	27.32	49.69	54.00	-4.31
11000.00	Peak	30.97	27.32	58.29	74.00	-15.71

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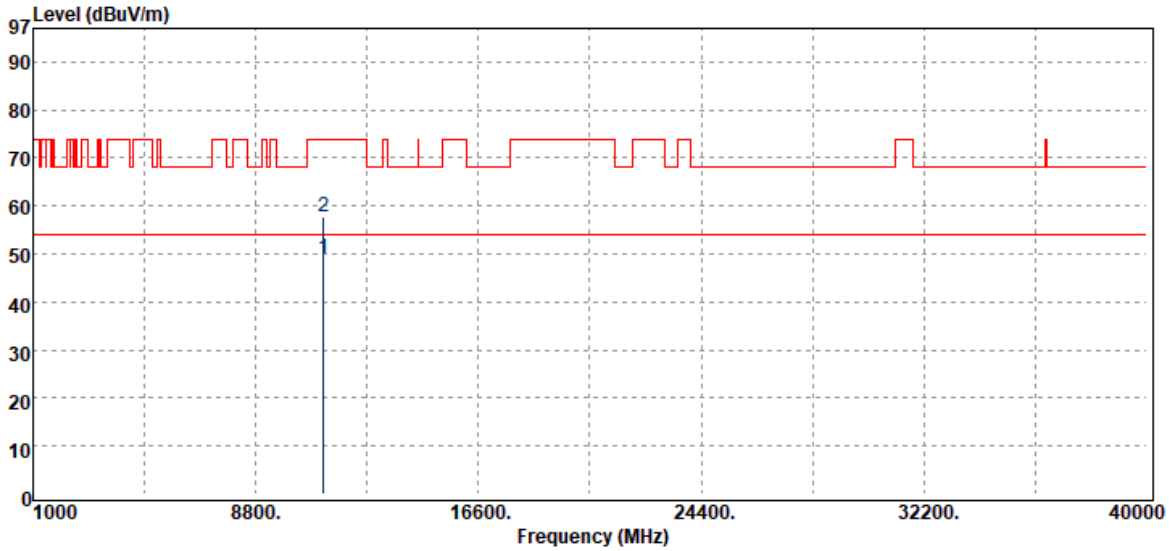
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n20	Test Date	:2020-10-22
Test Frequency	:5580 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	21.88	26.98	48.86	54.00	-5.14
11160.00	Peak	30.63	26.98	57.61	74.00	-16.39

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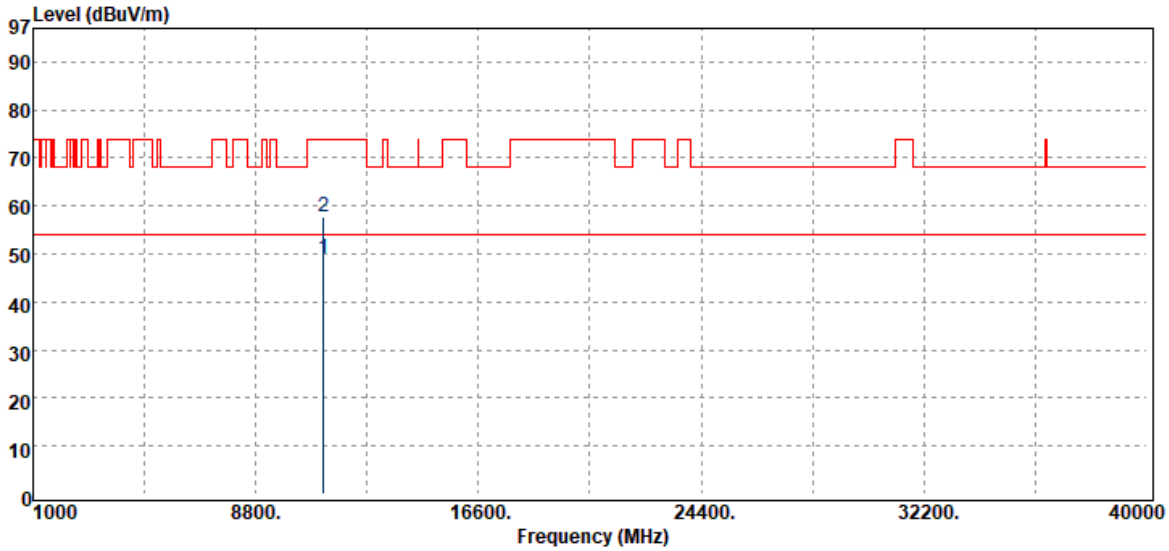
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n20	Test Date	:2020-10-22
Test Frequency	:5580 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	22.13	26.98	49.11	54.00	-4.89
11160.00	Peak	30.81	26.98	57.79	74.00	-16.21

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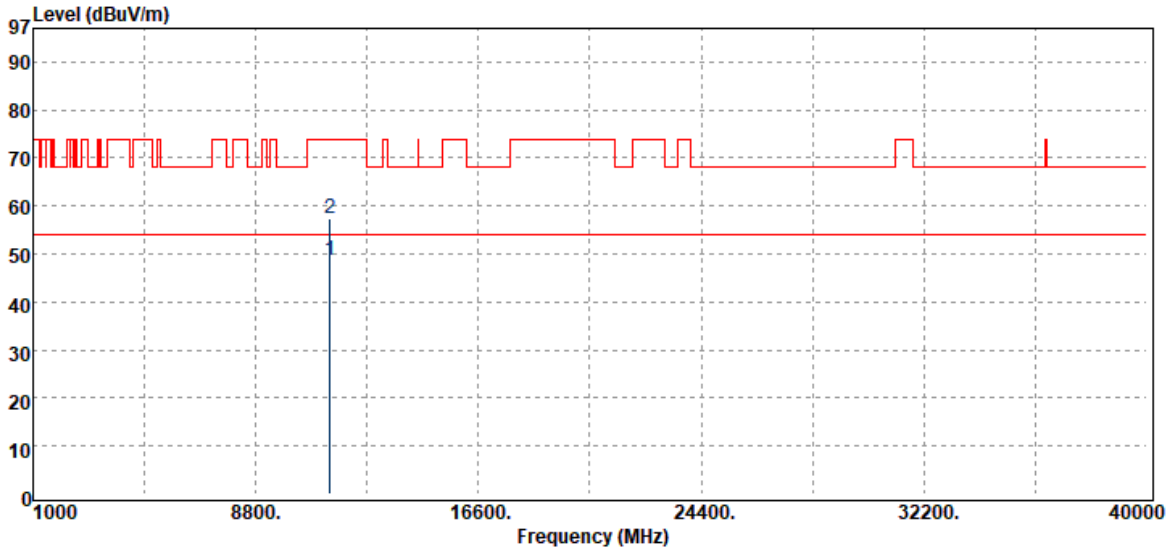
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n20	Test Date	:2020-10-22
Test Frequency	:5700 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	21.05	27.54	48.59	54.00	-5.41
11400.00	Peak	29.89	27.54	57.43	74.00	-16.57

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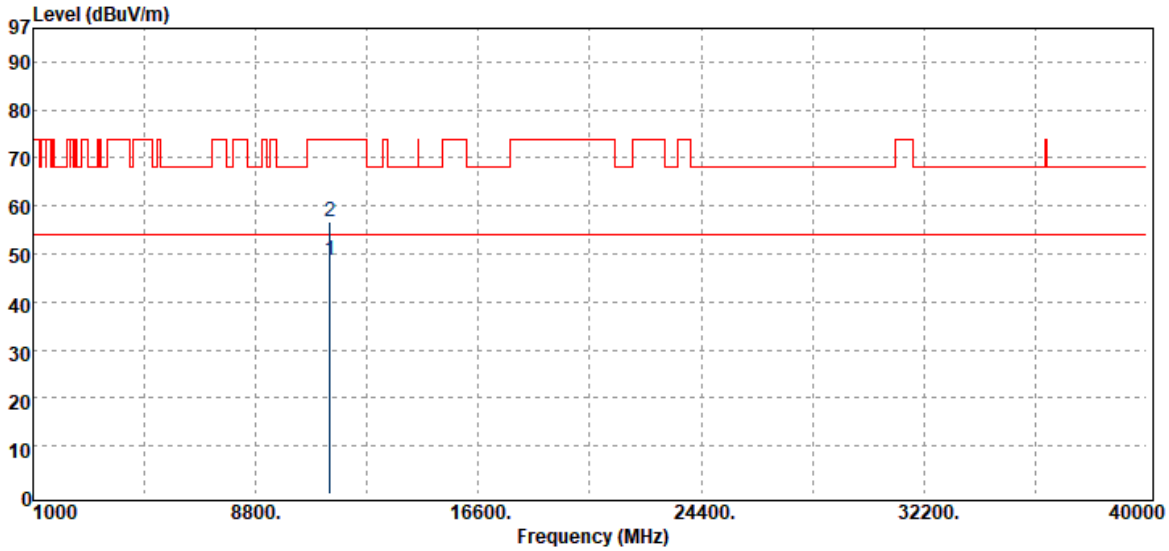
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n20	Test Date	:2020-10-22
Test Frequency	:5700 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	21.17	27.54	48.71	54.00	-5.29
11400.00	Peak	29.25	27.54	56.79	74.00	-17.21

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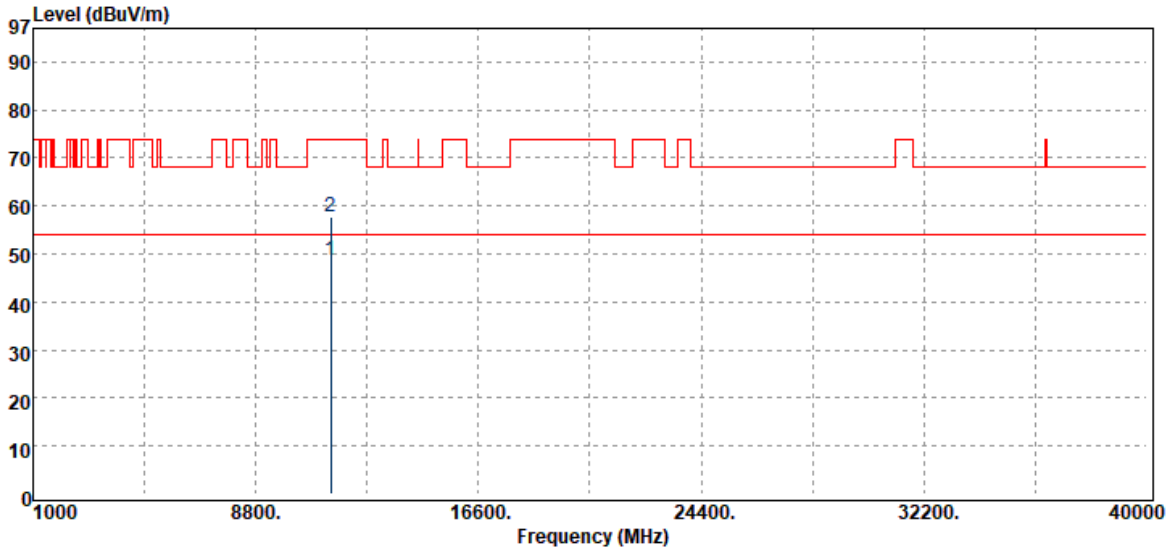
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n20	Test Date	:2020-10-22
Test Frequency	:5720 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11440.00	Average	21.04	27.76	48.80	54.00	-5.20
11440.00	Peak	29.84	27.76	57.60	74.00	-16.40

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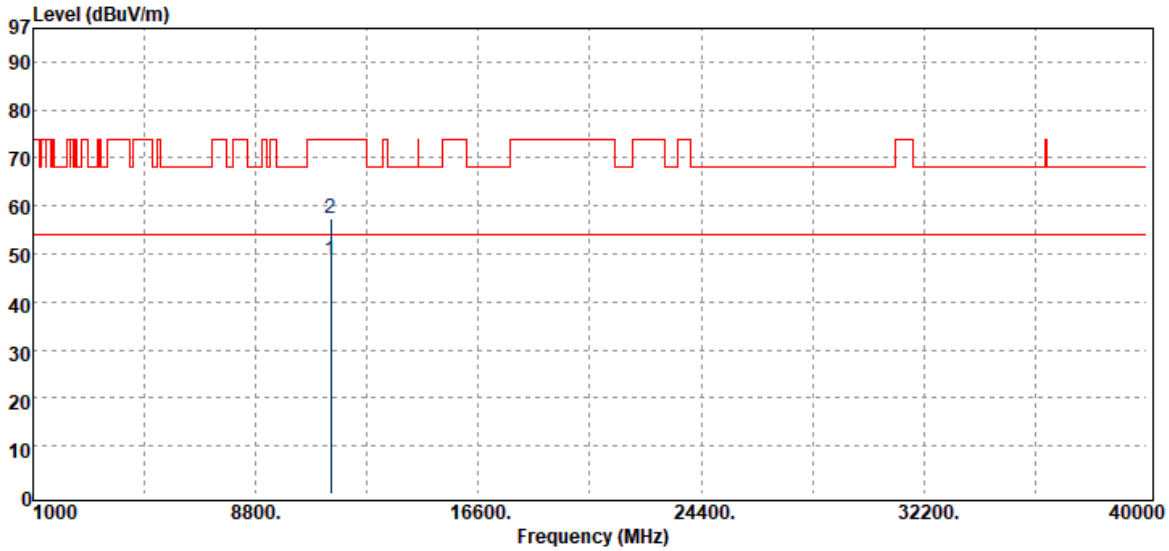
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n20	Test Date	:2020-10-22
Test Frequency	:5720 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11440.00	Average	21.02	27.76	48.78	54.00	-5.22
11440.00	Peak	29.57	27.76	57.33	74.00	-16.67

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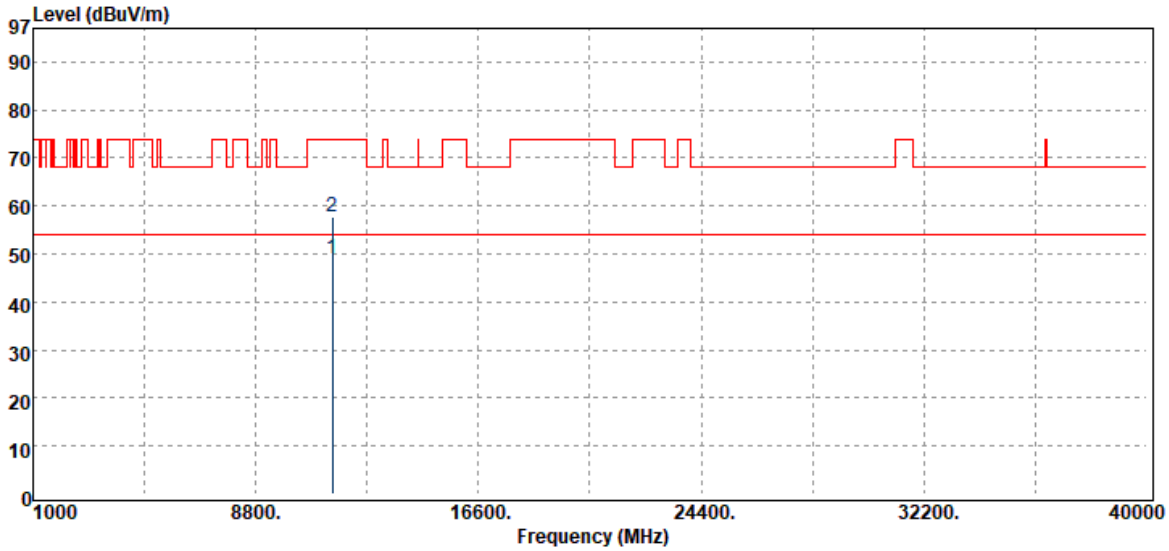
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n20	Test Date	:2020-10-22
Test Frequency	:5745 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	21.04	28.07	49.11	54.00	-4.89
11490.00	Peak	29.76	28.07	57.83	74.00	-16.17

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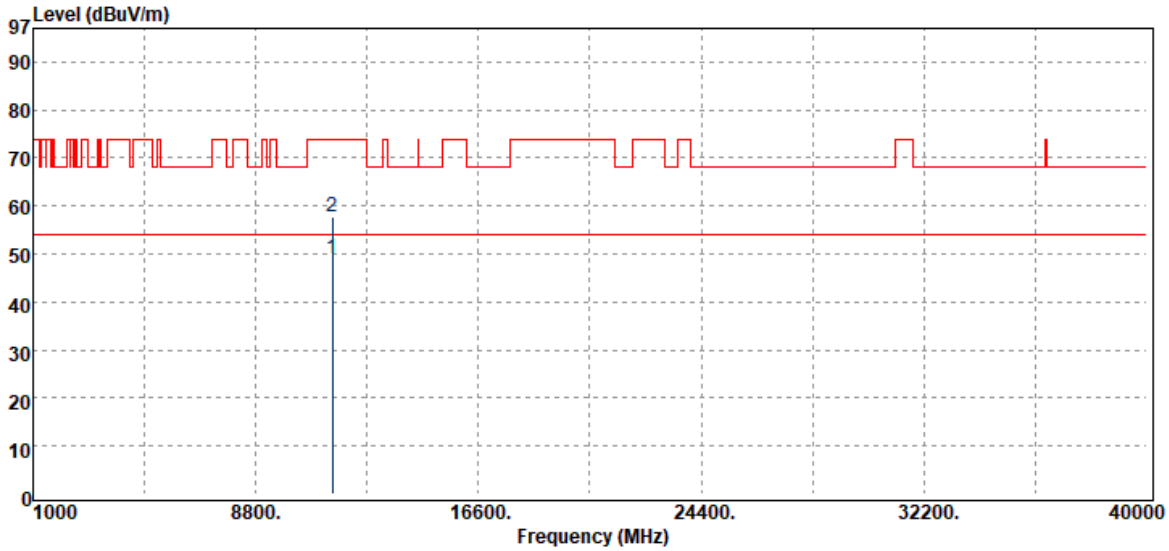
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n20	Test Date	:2020-10-22
Test Frequency	:5745 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	20.99	28.07	49.06	54.00	-4.94
11490.00	Peak	29.79	28.07	57.86	74.00	-16.14

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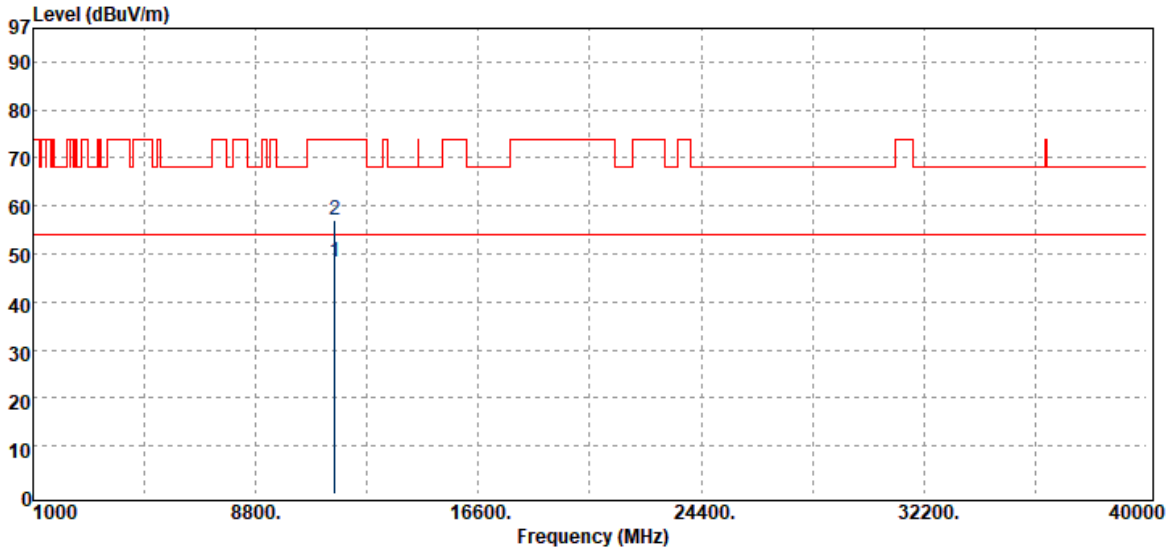
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n20	Test Date	:2020-10-22
Test Frequency	:5785 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	21.11	27.18	48.29	54.00	-5.71
11570.00	Peak	29.88	27.18	57.06	74.00	-16.94

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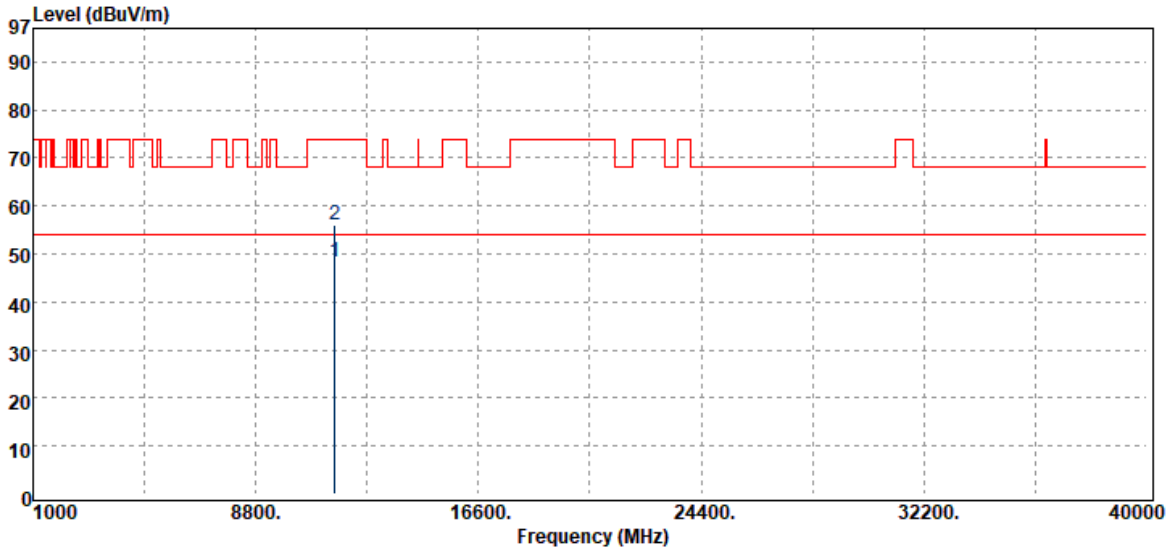
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n20	Test Date	:2020-10-22
Test Frequency	:5785 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	21.09	27.18	48.27	54.00	-5.73
11570.00	Peak	28.99	27.18	56.17	74.00	-17.83

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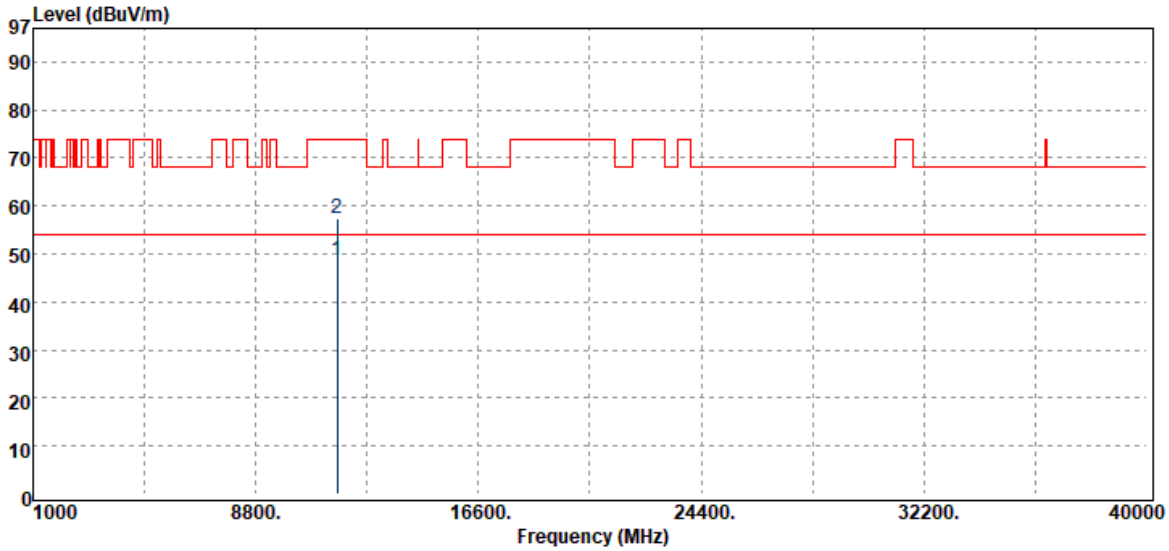
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n20	Test Date	:2020-10-22
Test Frequency	:5825 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	20.85	27.69	48.54	54.00	-5.46
11650.00	Peak	29.69	27.69	57.38	74.00	-16.62

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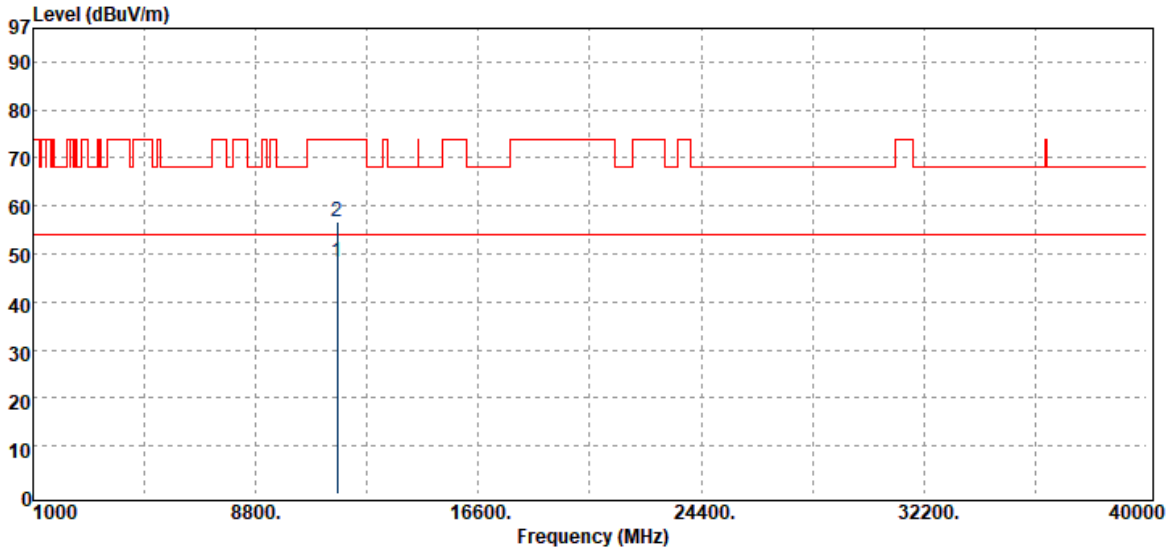
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n20	Test Date	:2020-10-22
Test Frequency	:5825 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	20.68	27.69	48.37	54.00	-5.63
11650.00	Peak	29.07	27.69	56.76	74.00	-17.24

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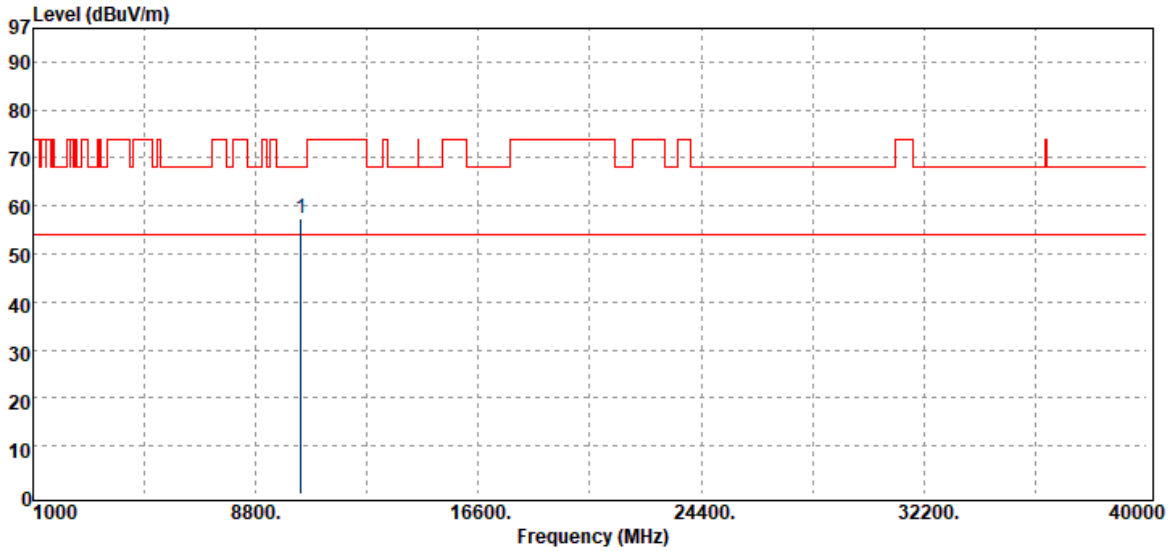
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n40	Test Date	:2020-10-22
Test Frequency	:5190 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	30.76	26.61	57.37	68.20	-10.83

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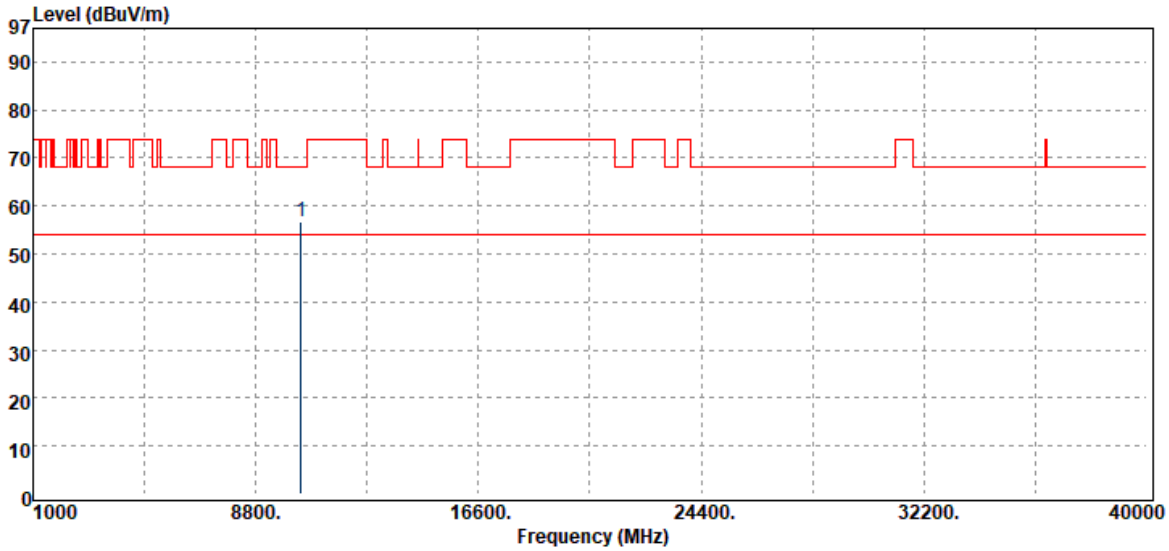
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n40	Test Date	:2020-10-22
Test Frequency	:5190 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	30.24	26.61	56.85	68.20	-11.35

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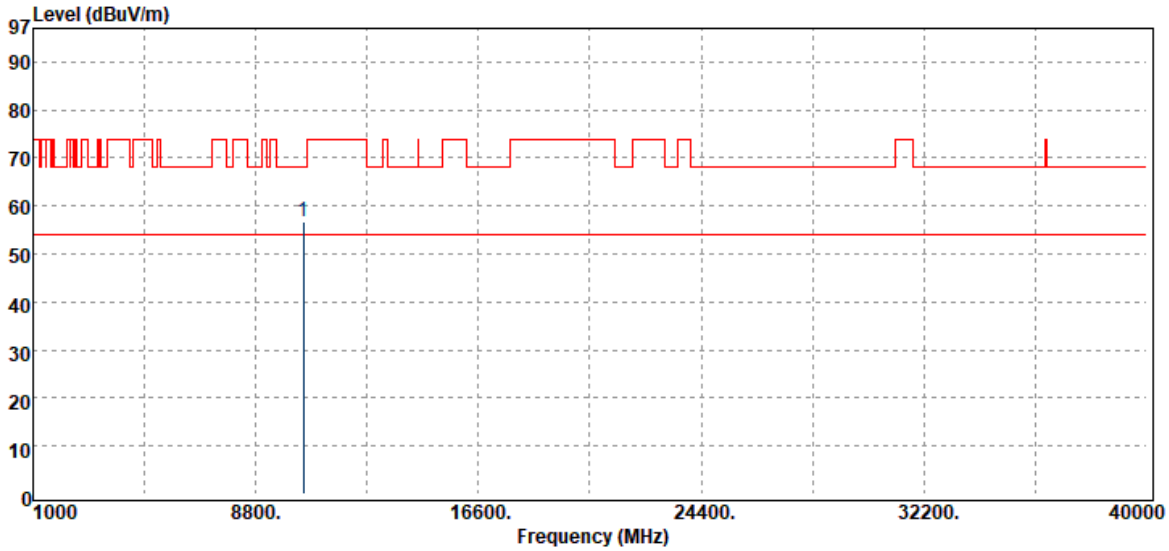
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n40	Test Date	:2020-10-22
Test Frequency	:5230 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	30.16	26.63	56.79	68.20	-11.41

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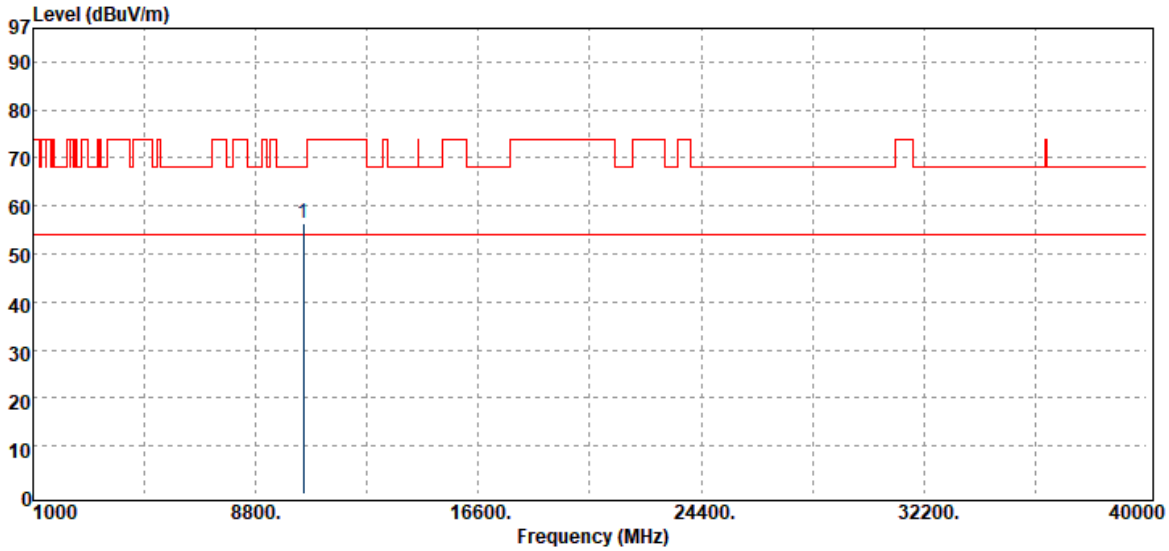
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n40	Test Date	:2020-10-22
Test Frequency	:5230 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	29.85	26.63	56.48	68.20	-11.72

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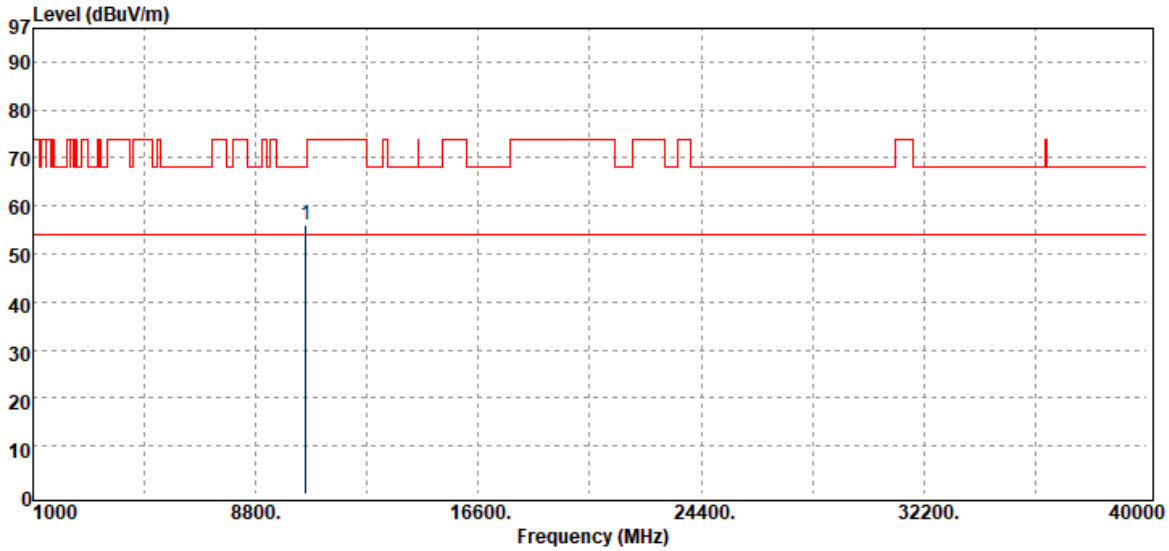
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n40	Test Date	:2020-10-22
Test Frequency	:5270 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	29.61	26.47	56.08	68.20	-12.12

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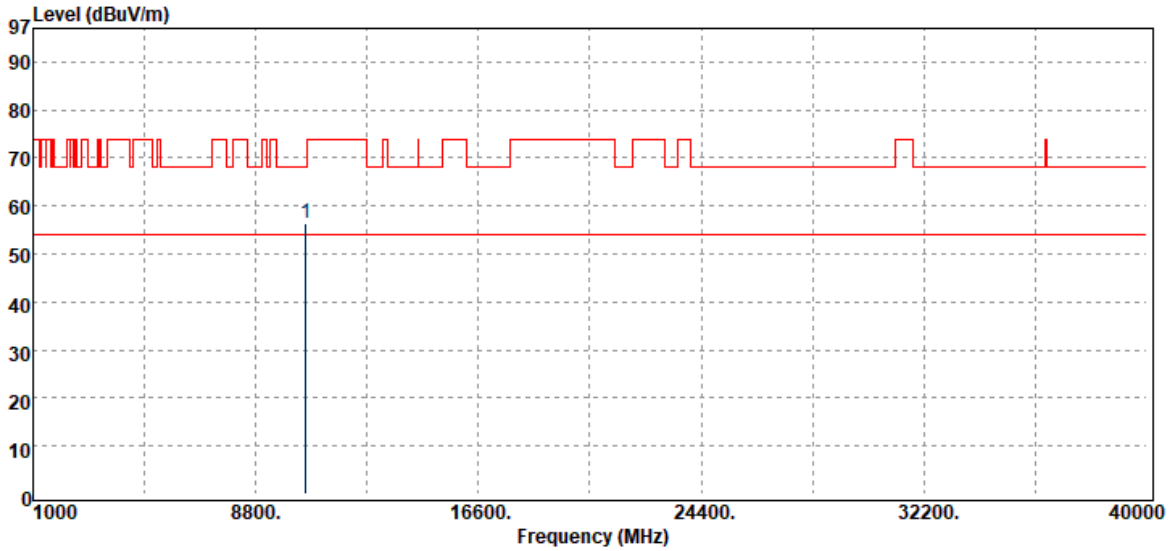
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n40	Test Date	:2020-10-22
Test Frequency	:5270 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	30.00	26.47	56.47	68.20	-11.73

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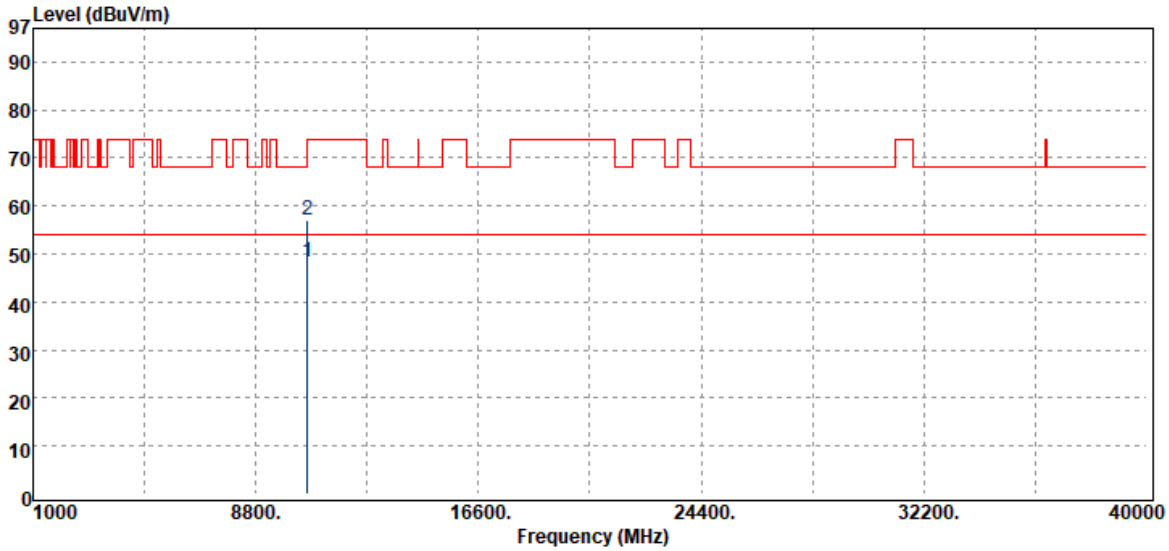
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n40	Test Date	:2020-10-22
Test Frequency	:5310 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	21.66	26.64	48.30	54.00	-5.70
10620.00	Peak	30.35	26.64	56.99	74.00	-17.01

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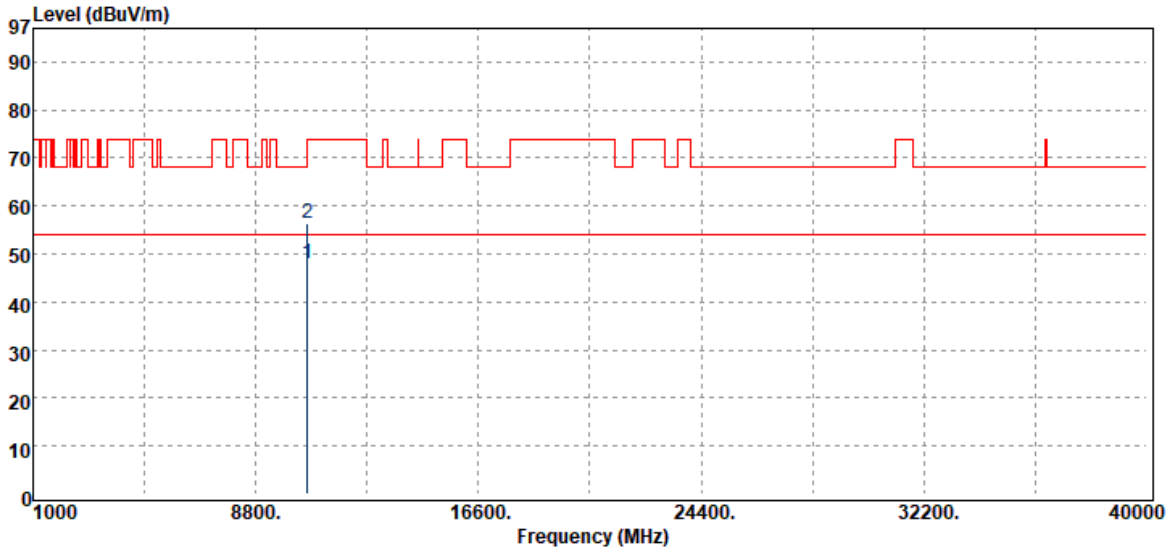
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n40	Test Date	:2020-10-22
Test Frequency	:5310 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	21.52	26.64	48.16	54.00	-5.84
10620.00	Peak	29.83	26.64	56.47	74.00	-17.53

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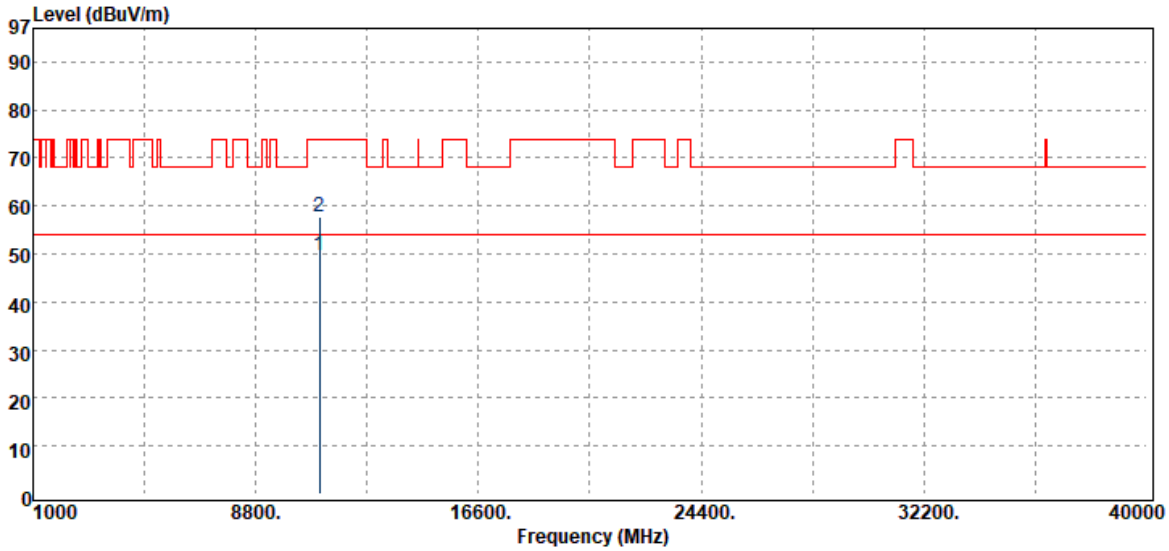
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n40	Test Date	:2020-10-22
Test Frequency	:5510 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	22.59	27.09	49.68	54.00	-4.32
11020.00	Peak	30.55	27.09	57.64	74.00	-16.36

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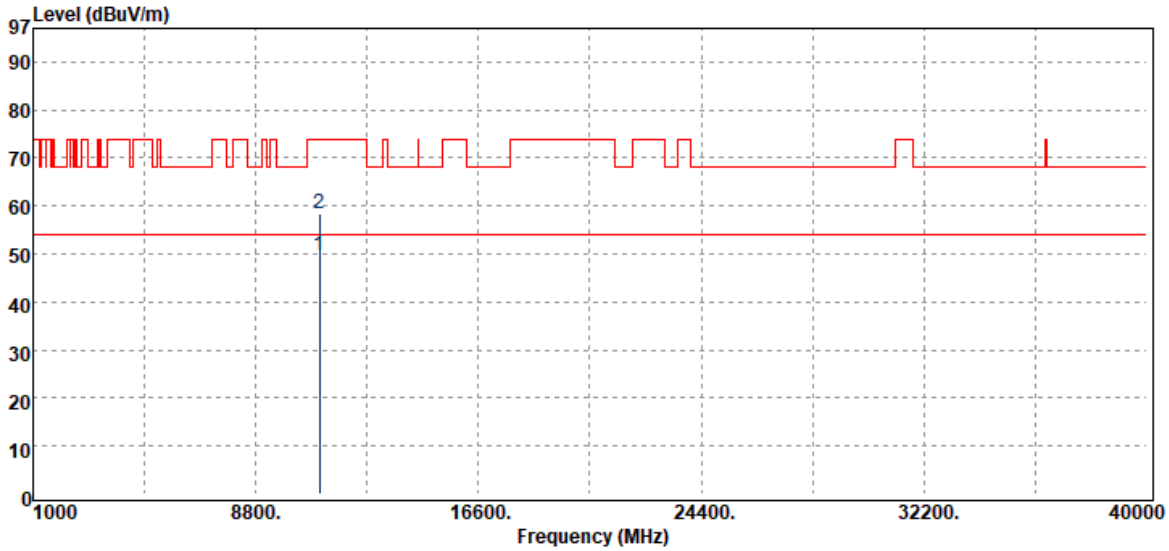
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n40	Test Date	:2020-10-22
Test Frequency	:5510 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	22.58	27.09	49.67	54.00	-4.33
11020.00	Peak	31.25	27.09	58.34	74.00	-15.66

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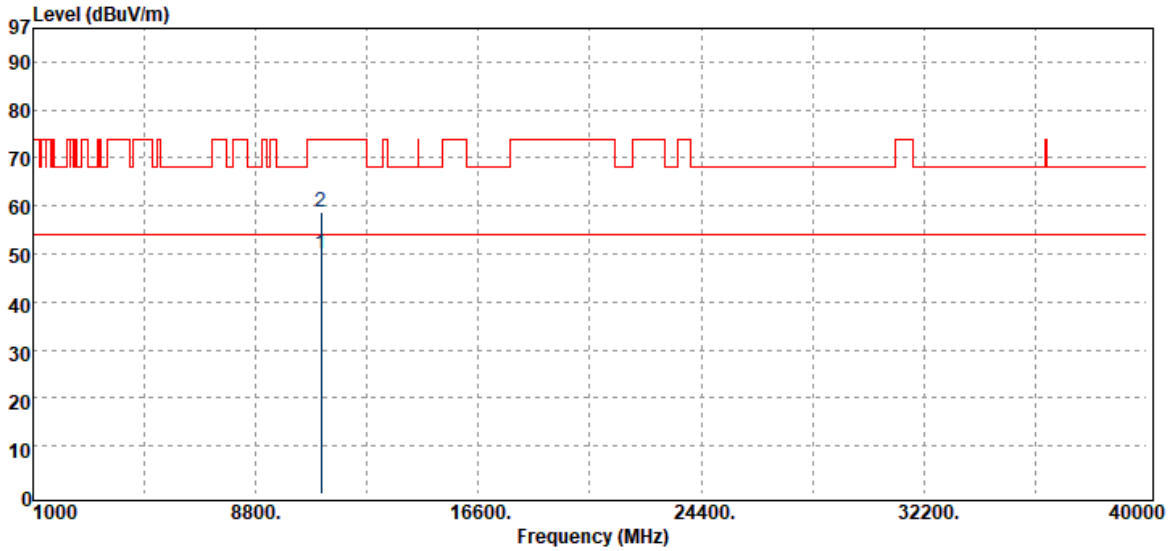
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n40	Test Date	:2020-10-22
Test Frequency	:5550 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	22.72	27.23	49.95	54.00	-4.05
11100.00	Peak	31.34	27.23	58.57	74.00	-15.43

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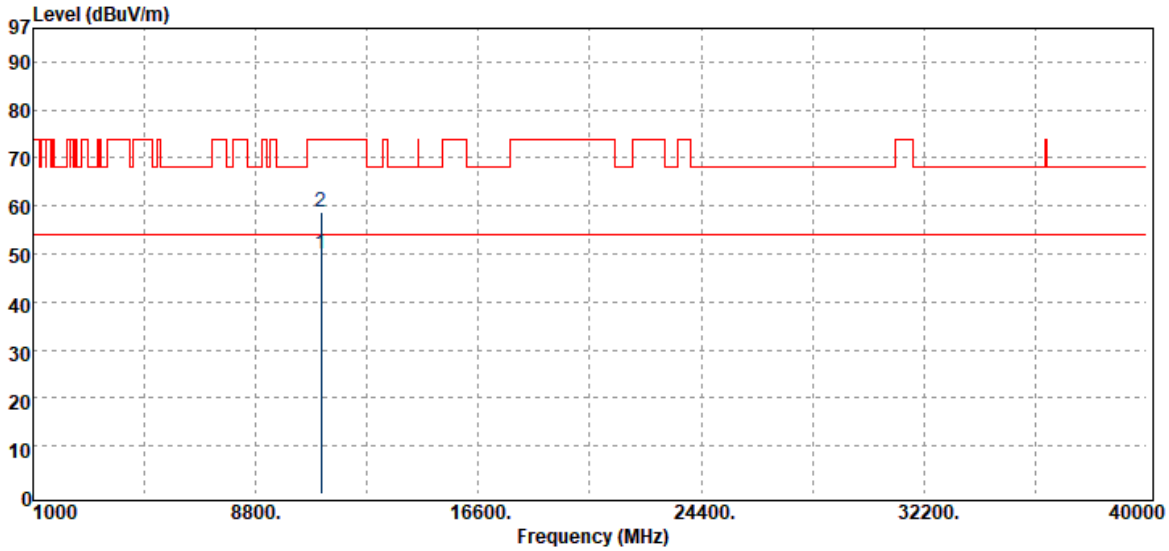
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n40	Test Date	:2020-10-22
Test Frequency	:5550 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	22.80	27.23	50.03	54.00	-3.97
11100.00	Peak	31.34	27.23	58.57	74.00	-15.43

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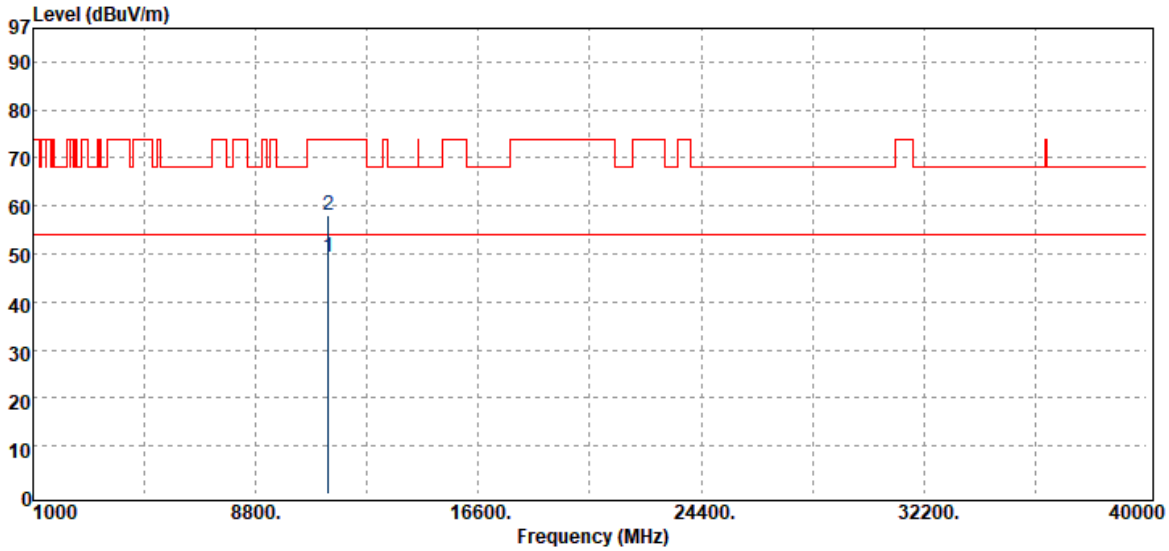
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n40	Test Date	:2020-10-22
Test Frequency	:5670 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	21.64	27.77	49.41	54.00	-4.59
11340.00	Peak	30.21	27.77	57.98	74.00	-16.02

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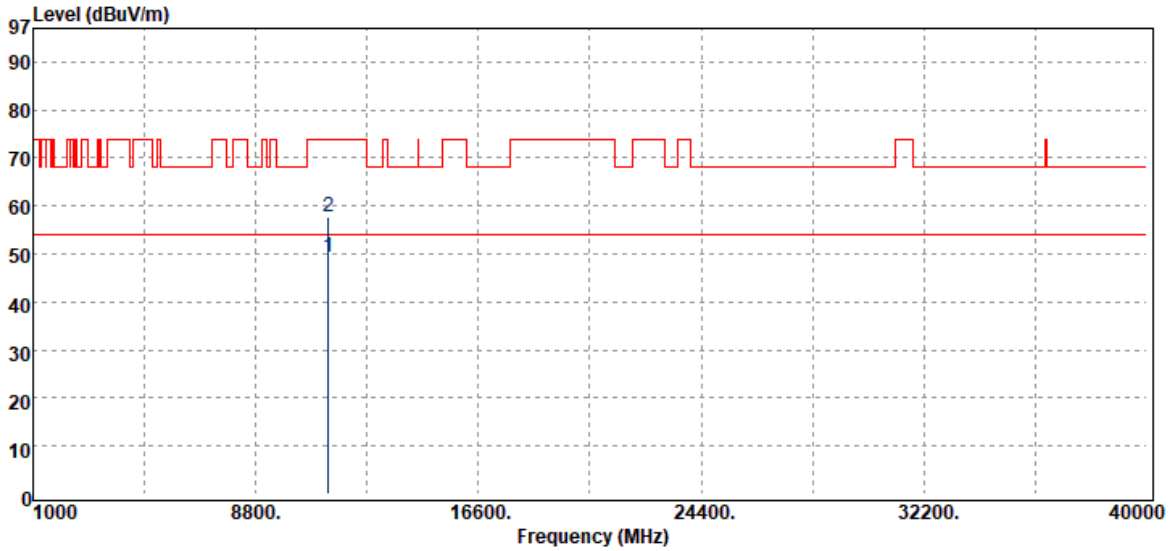
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n40	Test Date	:2020-10-22
Test Frequency	:5670 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	21.64	27.77	49.41	54.00	-4.59
11340.00	Peak	30.04	27.77	57.81	74.00	-16.19

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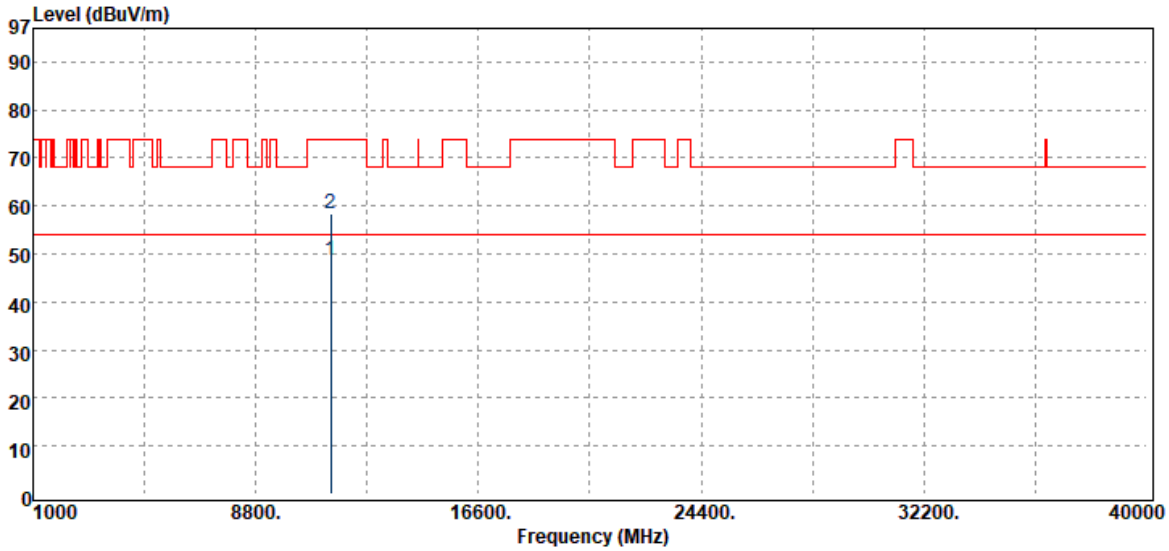
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n40	Test Date	:2020-10-22
Test Frequency	:5710 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11420.00	Average	21.17	27.66	48.83	54.00	-5.17
11420.00	Peak	30.71	27.66	58.37	74.00	-15.63

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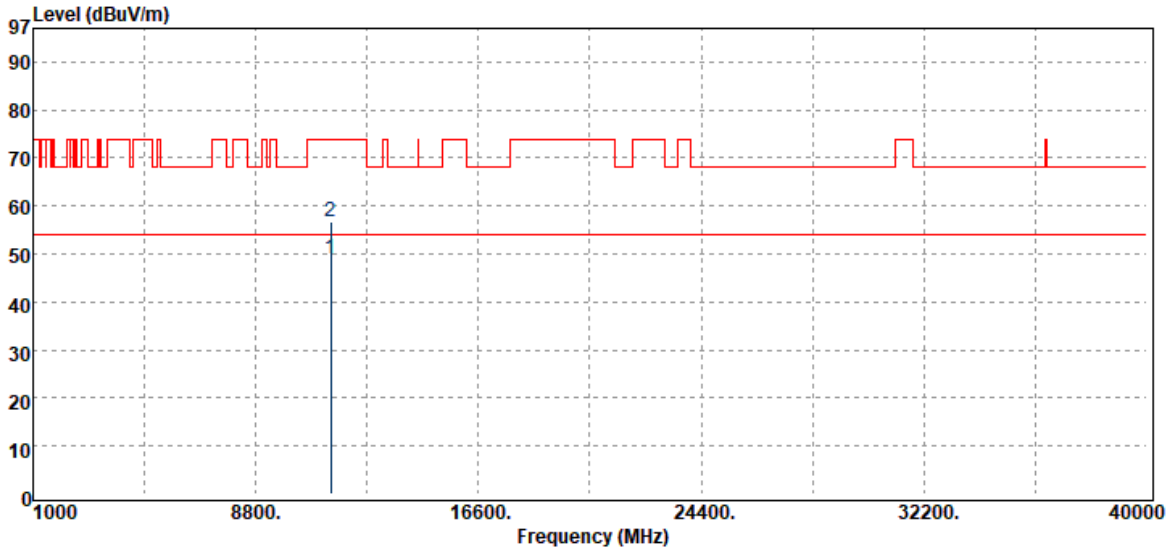
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n40	Test Date	:2020-10-22
Test Frequency	:5710 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11420.00	Average	21.22	27.66	48.88	54.00	-5.12
11420.00	Peak	29.18	27.66	56.84	74.00	-17.16

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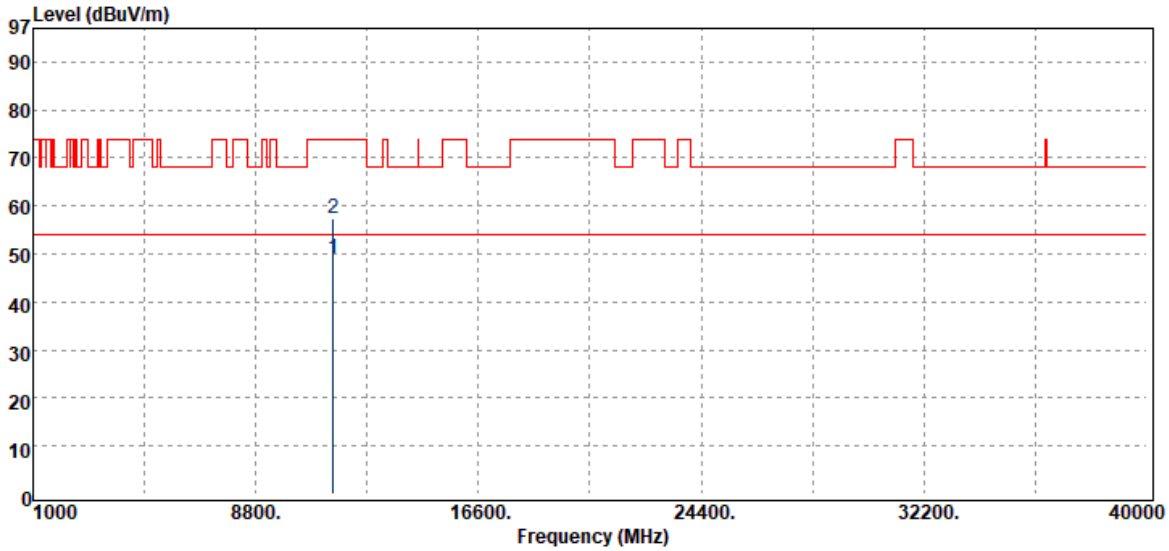
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n40	Test Date	:2020-10-22
Test Frequency	:5755 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	21.16	27.96	49.12	54.00	-4.88
11510.00	Peak	29.47	27.96	57.43	74.00	-16.57

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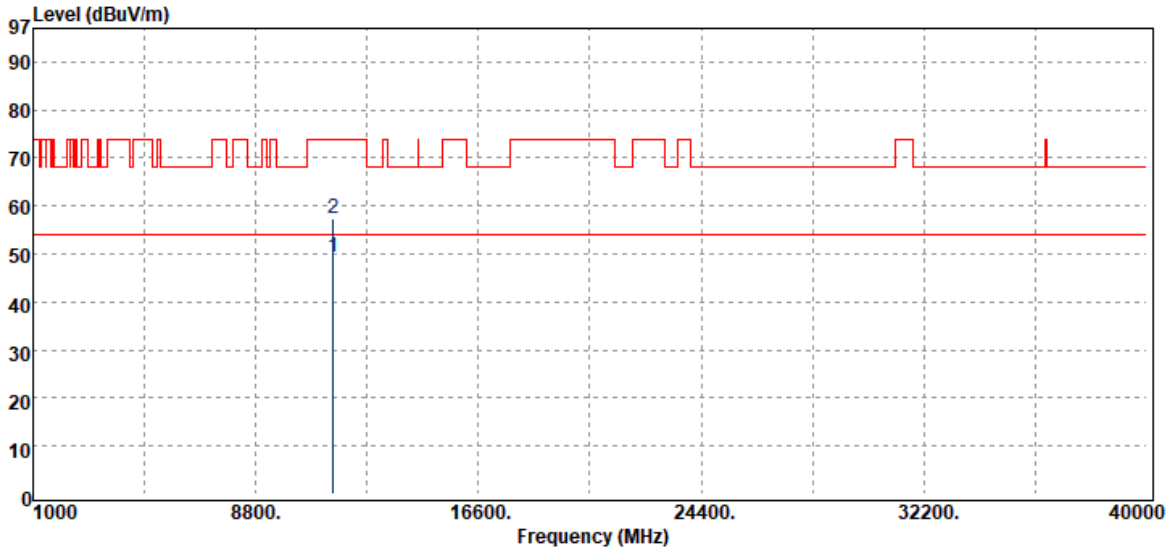
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n40	Test Date	:2020-10-22
Test Frequency	:5755 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	21.28	27.96	49.24	54.00	-4.76
11510.00	Peak	29.40	27.96	57.36	74.00	-16.64

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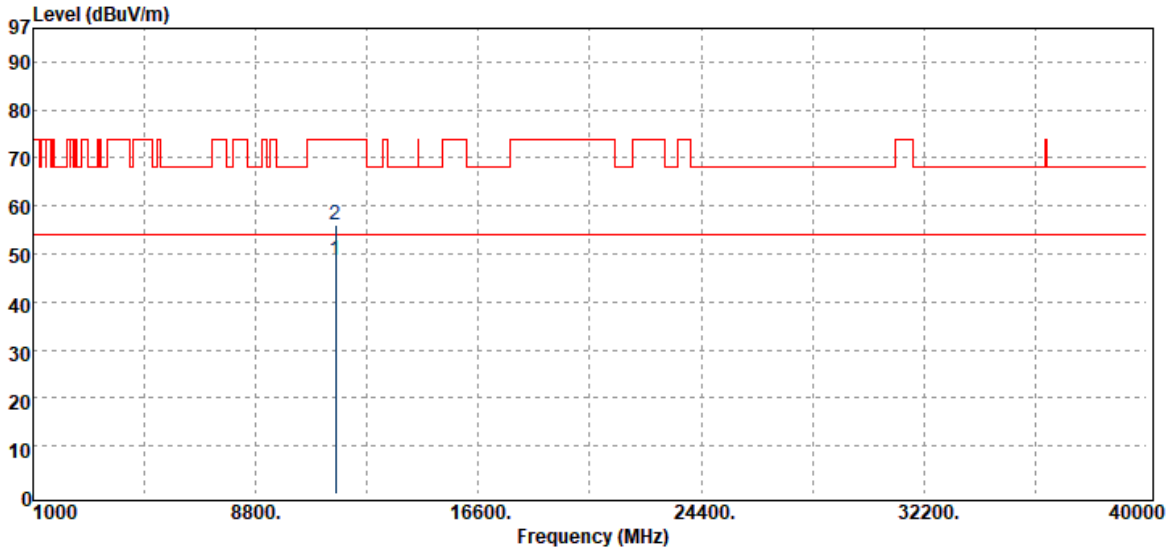
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n40	Test Date	:2020-10-22
Test Frequency	:5795 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	21.43	27.12	48.55	54.00	-5.45
11590.00	Peak	29.01	27.12	56.13	74.00	-17.87

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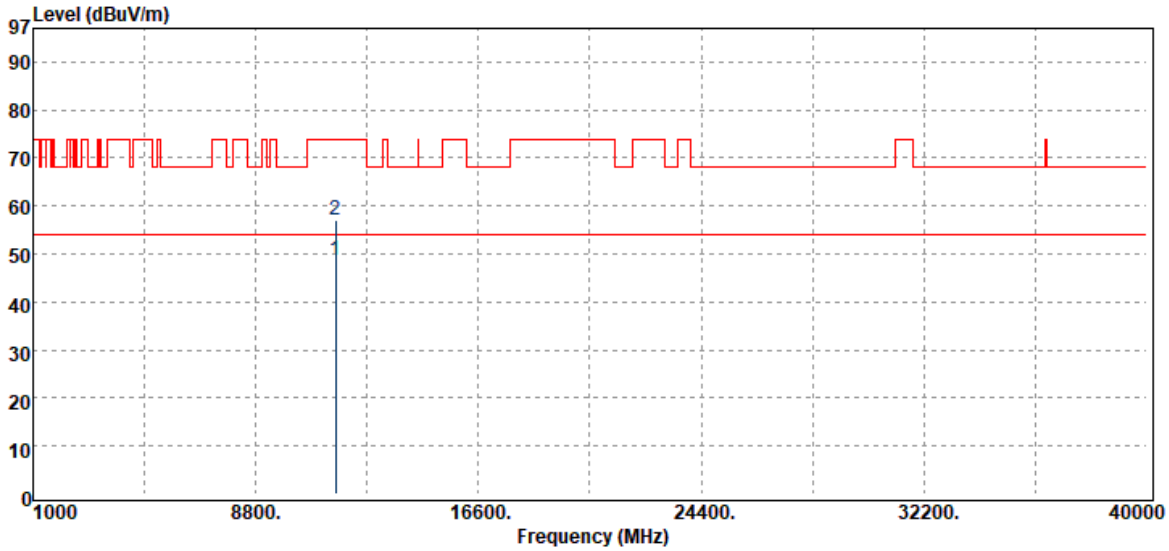
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n40	Test Date	:2020-10-22
Test Frequency	:5795 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	21.56	27.12	48.68	54.00	-5.32
11590.00	Peak	30.07	27.12	57.19	74.00	-16.81

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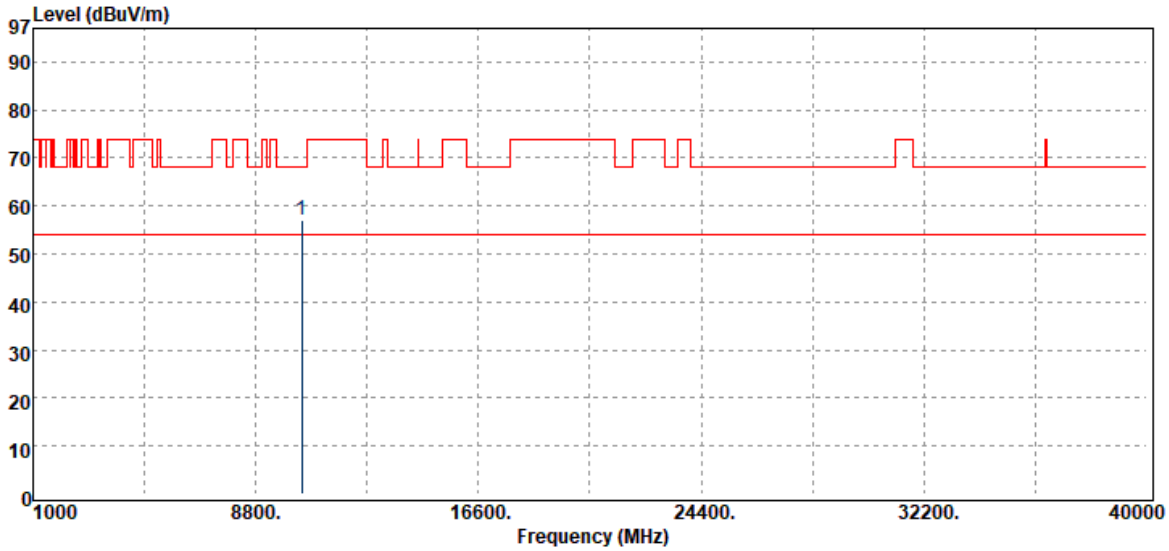
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11ac80	Test Date	:2020-10-22
Test Frequency	:5210 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10420.00	Peak	30.35	26.81	57.16	68.20	-11.04

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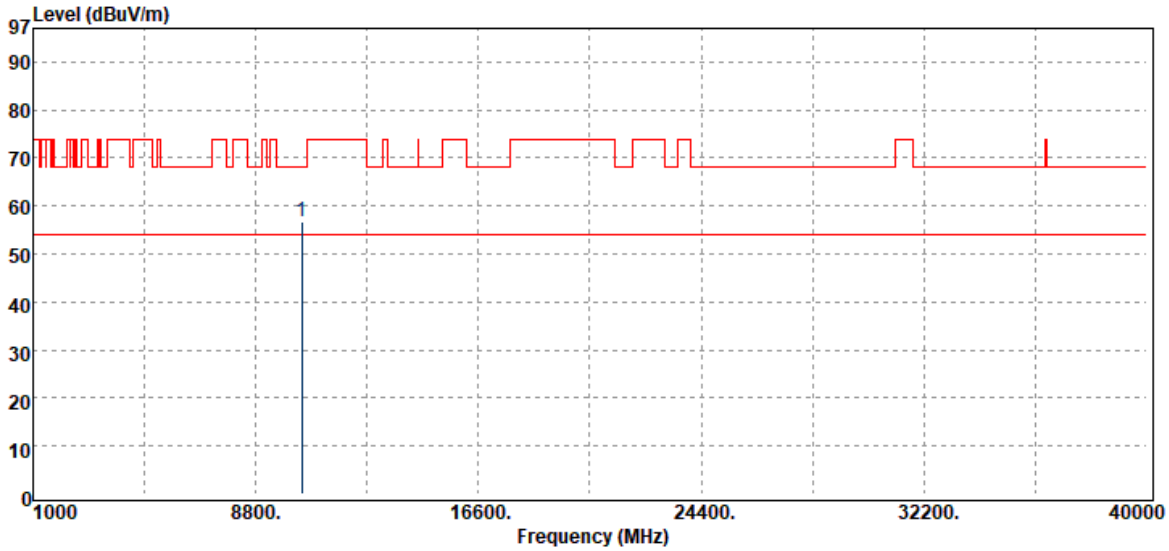
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11ac80	Test Date	:2020-10-22
Test Frequency	:5210 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10420.00	Peak	29.90	26.81	56.71	68.20	-11.49

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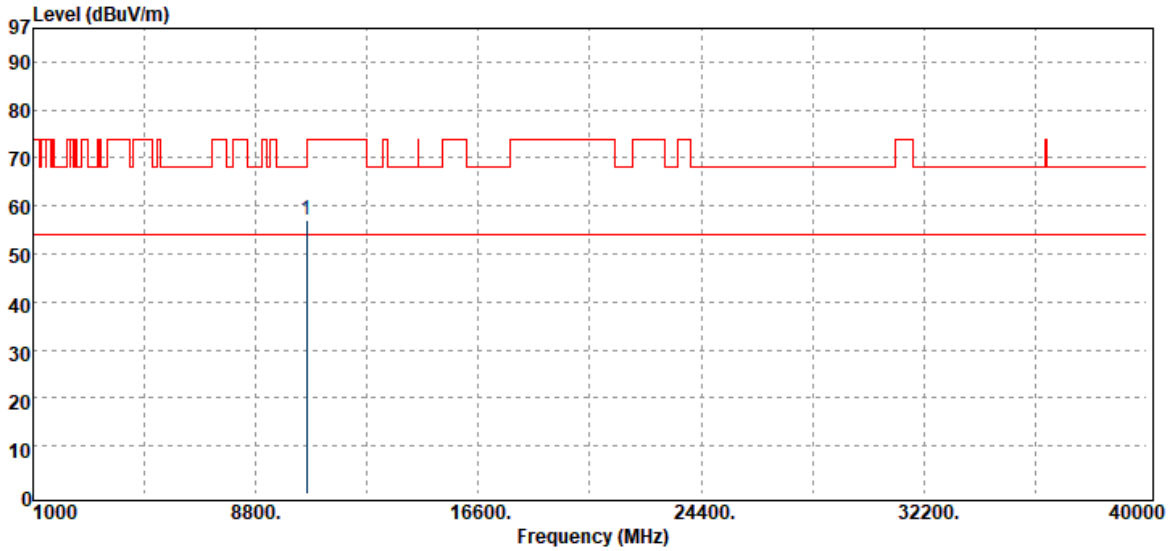
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11ac80	Test Date	:2020-10-22
Test Frequency	:5290 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10580.00	Peak	30.23	26.69	56.92	68.20	-11.28

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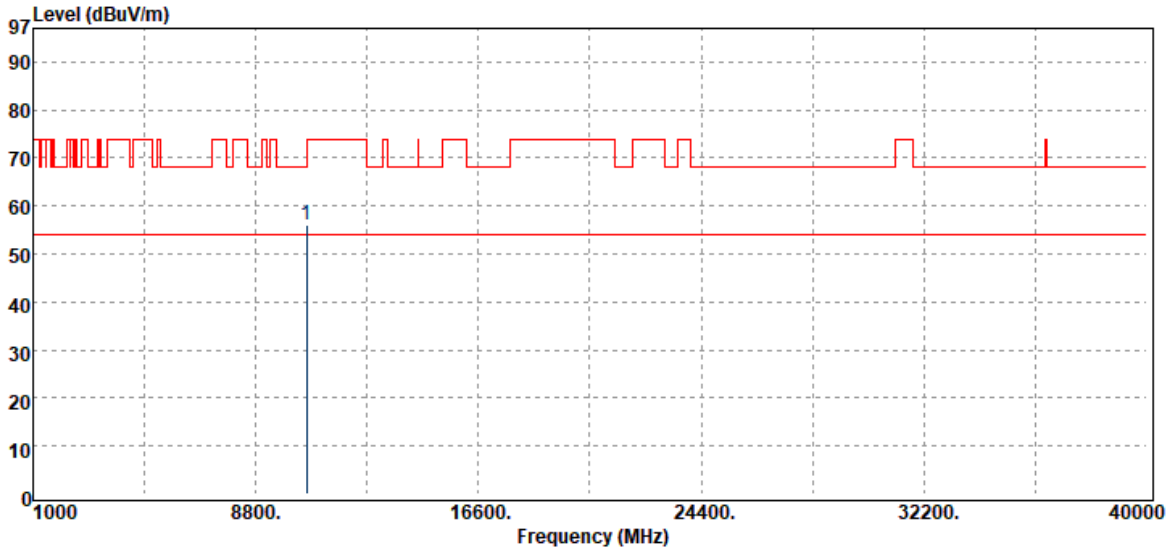
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11ac80	Test Date	:2020-10-22
Test Frequency	:5290 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10580.00	Peak	29.45	26.69	56.14	68.20	-12.06

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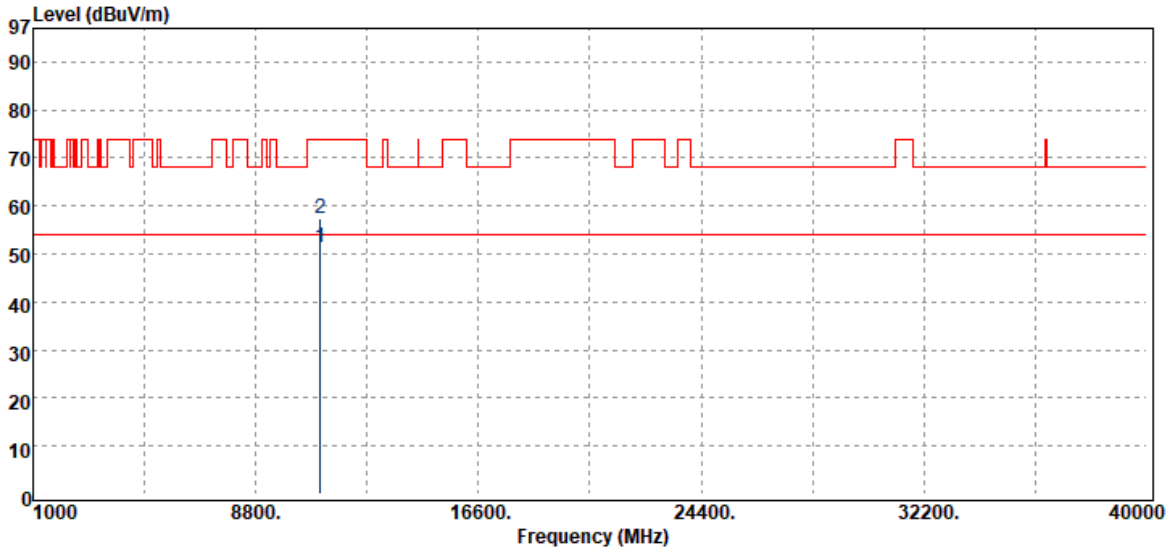
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11ac80	Test Date	:2020-10-22
Test Frequency	:5530 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11060.00	Average	24.63	26.84	51.47	54.00	-2.53
11060.00	Peak	30.54	26.84	57.38	74.00	-16.62

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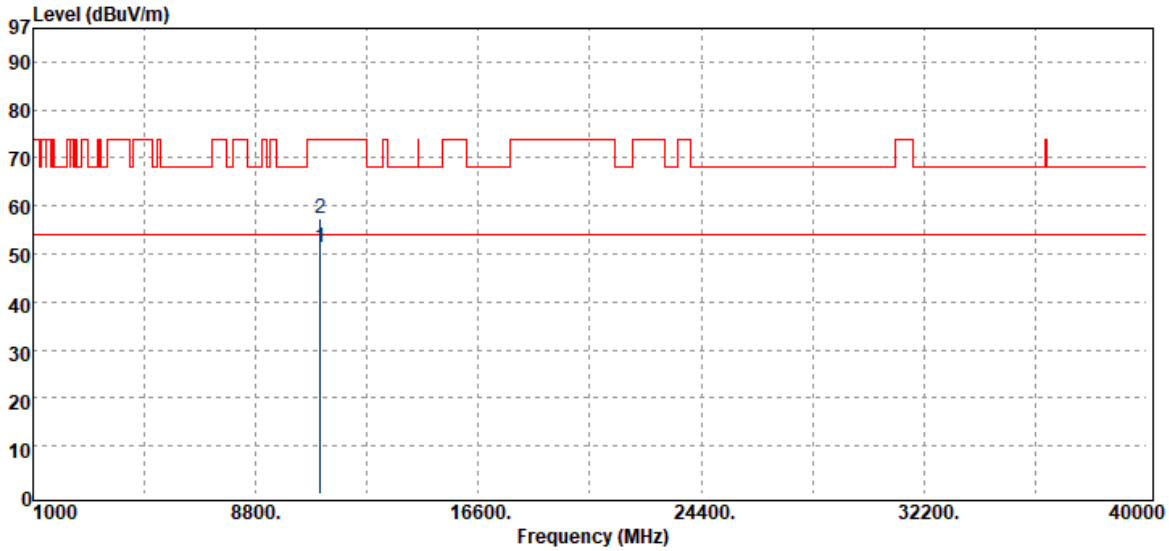
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11ac80	Test Date	:2020-10-22
Test Frequency	:5530 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11060.00	Average	24.46	26.84	51.30	54.00	-2.70
11060.00	Peak	30.67	26.84	57.51	74.00	-16.49

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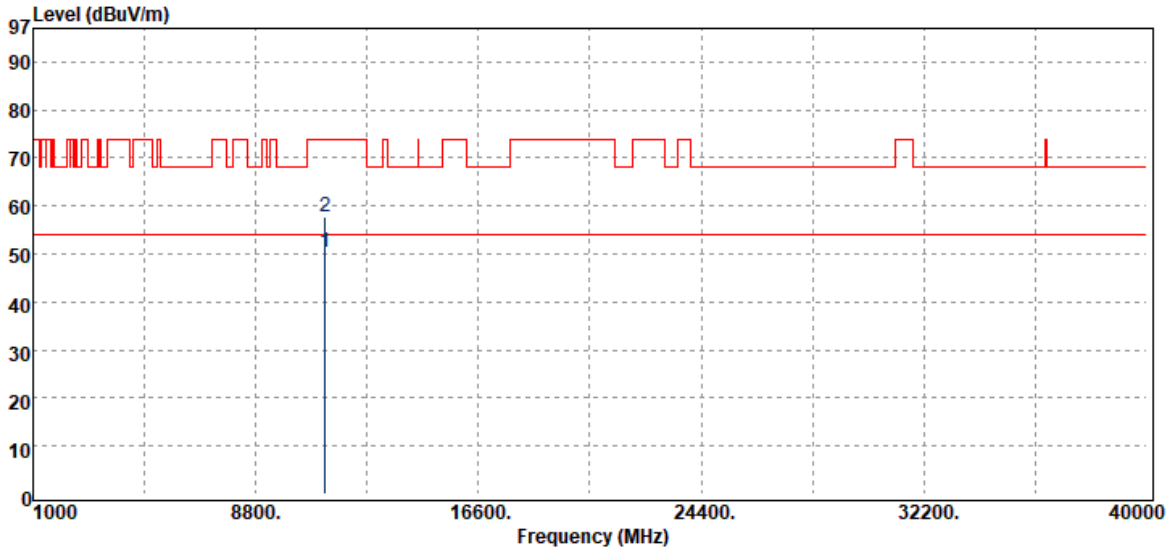
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11ac80	Test Date	:2020-10-22
Test Frequency	:5610 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11220.00	Average	23.69	26.68	50.37	54.00	-3.63
11220.00	Peak	31.15	26.68	57.83	74.00	-16.17

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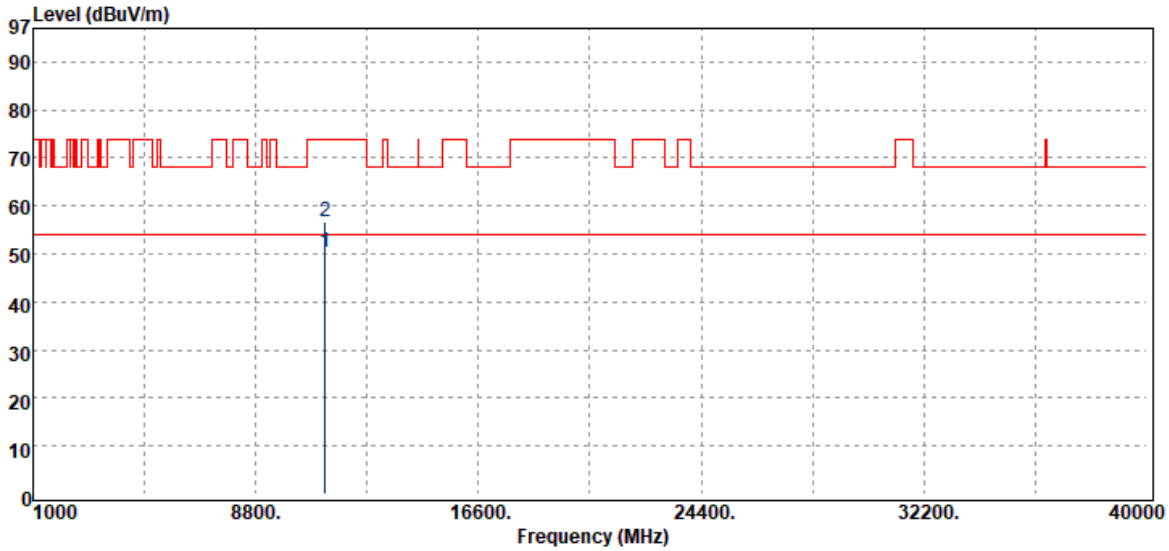
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11ac80	Test Date	:2020-10-22
Test Frequency	:5610 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11220.00	Average	23.74	26.68	50.42	54.00	-3.58
11220.00	Peak	29.89	26.68	56.57	74.00	-17.43

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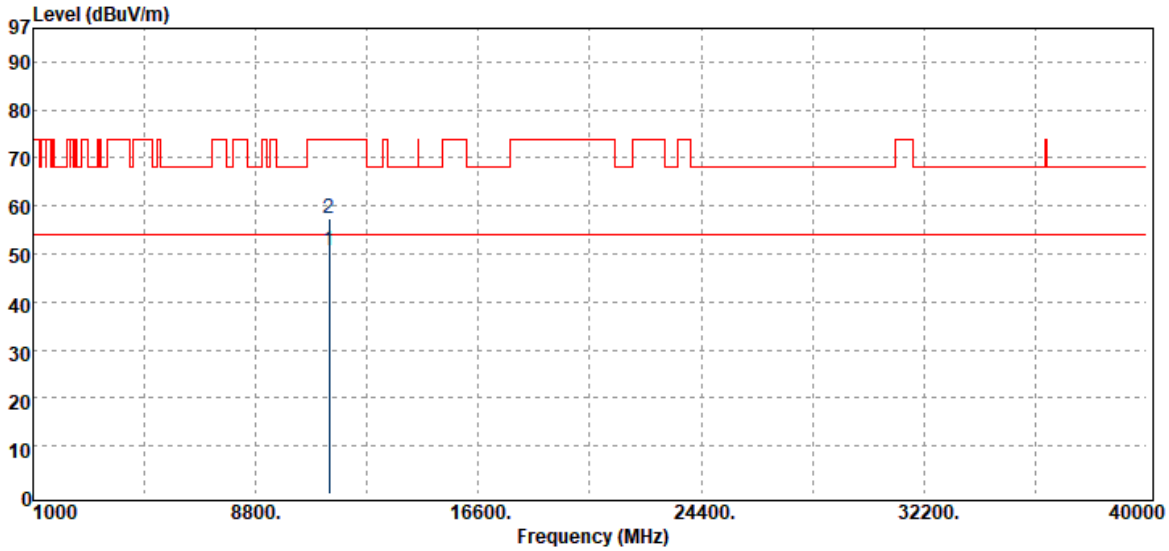
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11ac80	Test Date	:2020-10-22
Test Frequency	:5690 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11380.00	Average	23.17	27.63	50.80	54.00	-3.20
11380.00	Peak	29.77	27.63	57.40	74.00	-16.60

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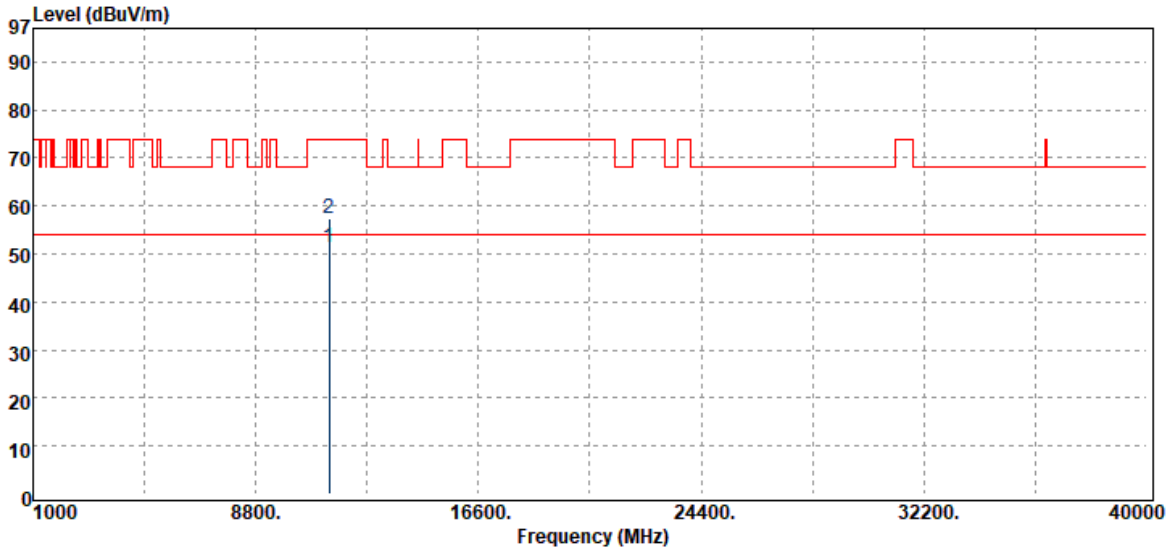
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11ac80	Test Date	:2020-10-22
Test Frequency	:5690 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11380.00	Average	23.62	27.63	51.25	54.00	-2.75
11380.00	Peak	29.60	27.63	57.23	74.00	-16.77

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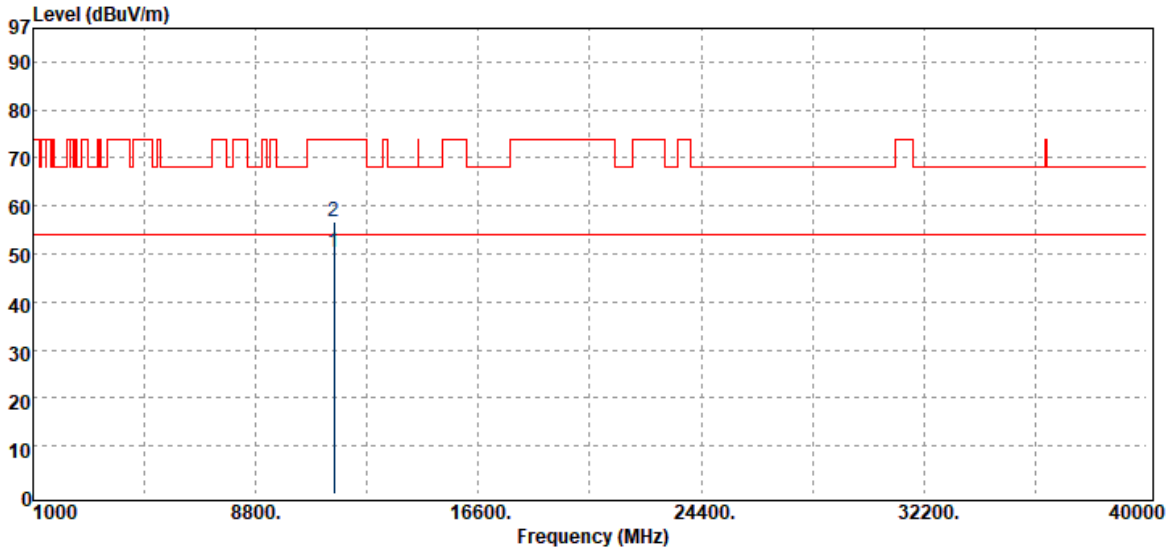
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11ac80	Test Date	:2020-10-22
Test Frequency	:5775 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11550.00	Average	23.13	27.23	50.36	54.00	-3.64
11550.00	Peak	29.43	27.23	56.66	74.00	-17.34

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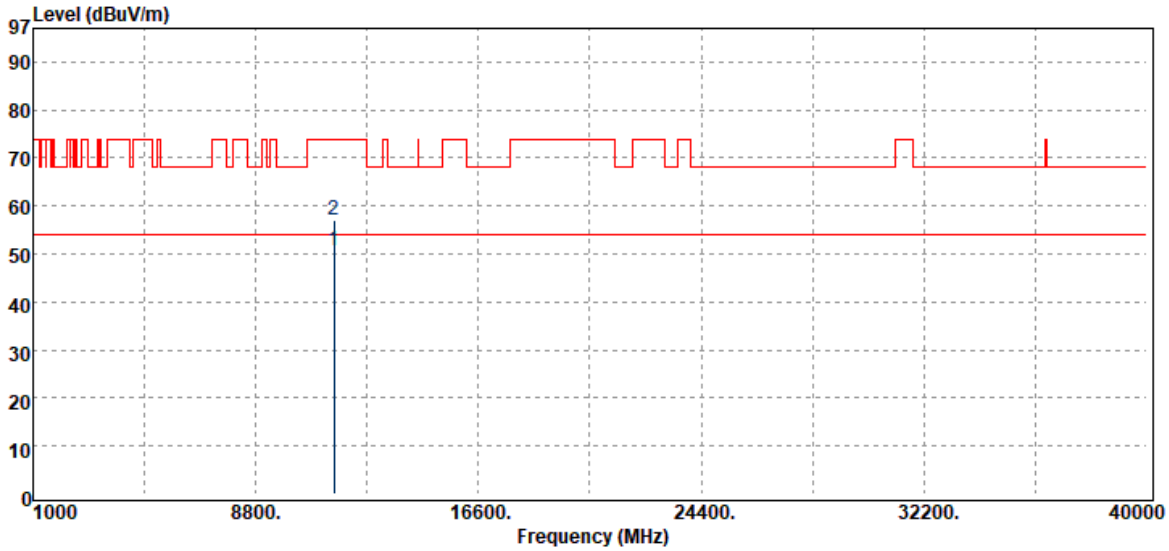
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11ac80	Test Date	:2020-10-22
Test Frequency	:5775 MHz	Temp./Humi.	:23.6/66
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11550.00	Average	23.49	27.23	50.72	54.00	-3.28
11550.00	Peak	29.71	27.23	56.94	74.00	-17.06

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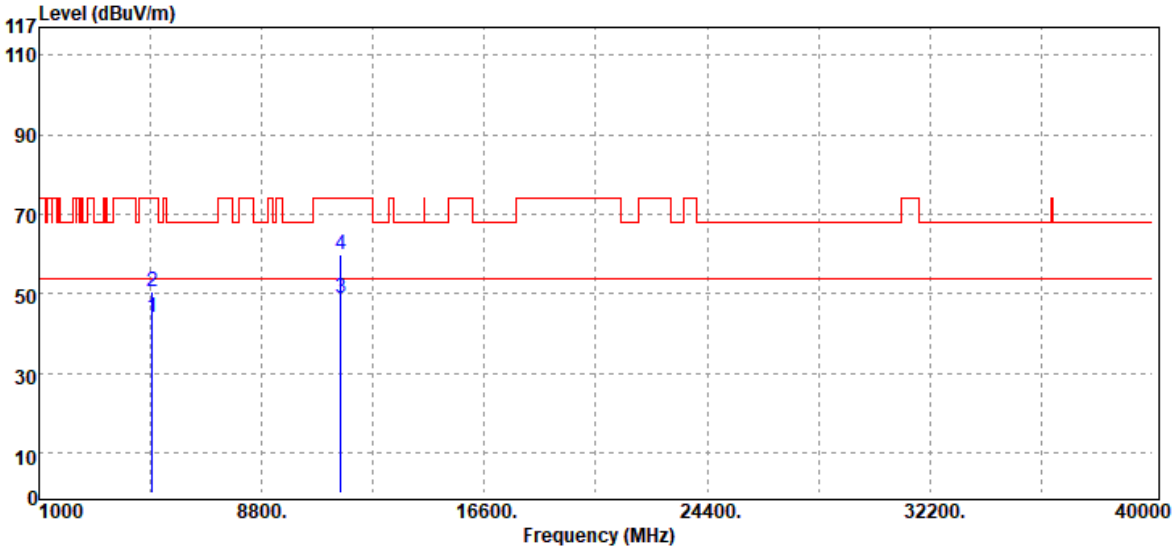
TX RSE Simultaneously_BT+WLAN 5G

Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:BR(1M)_802.11n20	Test Date	:2020-10-27
Test Frequency	:2480 MHz_5785 MHz	Temp./Humi.	:23.8/61
Test Mode	:Tx CH Mid_Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plane	Engineer	:Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.00	Average	29.56	14.75	44.31	54.00	-9.69
4960.00	Peak	35.88	14.75	50.63	74.00	-23.37
11570.00	Average	21.85	27.18	49.03	54.00	-4.97
11570.00	Peak	32.63	27.18	59.81	74.00	-14.19

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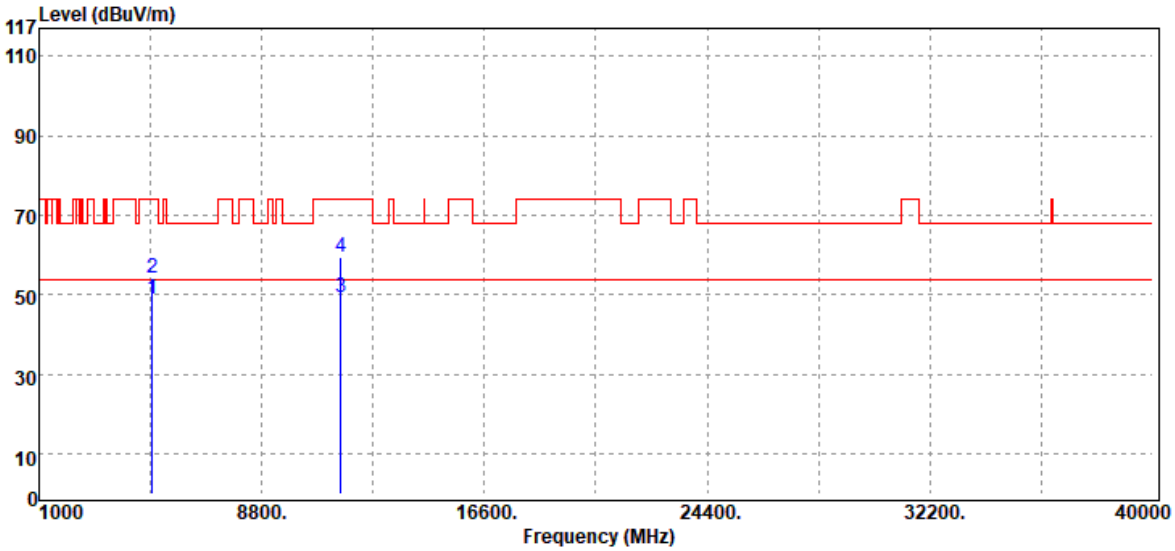
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:BR(1M)_802.11n20	Test Date	:2020-10-27
Test Frequency	:2480 MHz_5785 MHz	Temp./Humi.	:23.8/61
Test Mode	:Tx CH Mid_Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.00	Average	34.40	14.75	49.15	54.00	-4.85
4960.00	Peak	39.69	14.75	54.44	74.00	-19.56
11570.00	Average	22.30	27.18	49.48	54.00	-4.52
11570.00	Peak	32.37	27.18	59.55	74.00	-14.45

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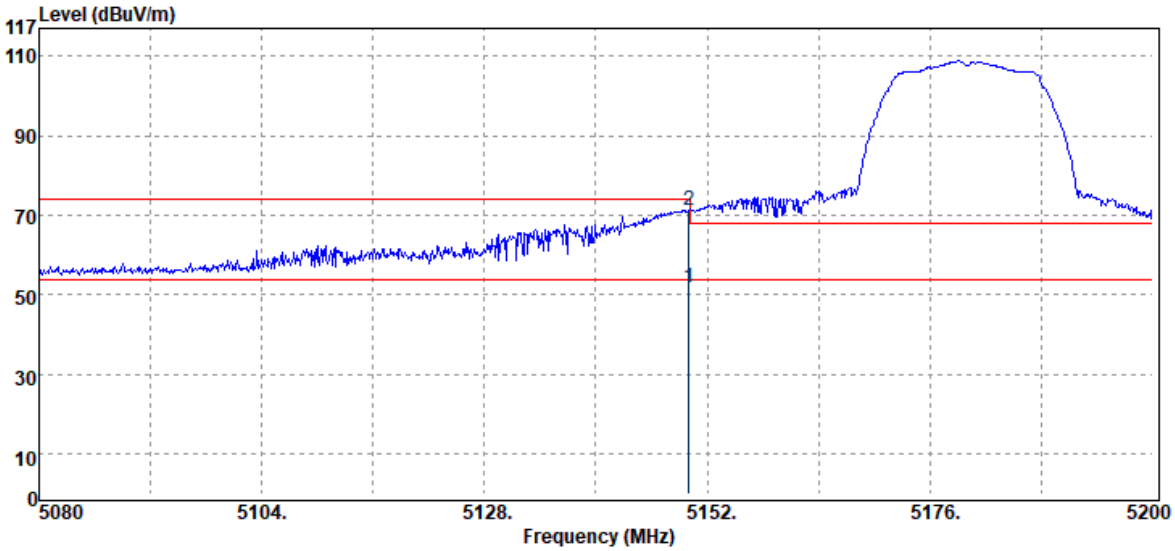
11.7.3 Band edge falling to restricted band

Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-19
Test Frequency	:5180 MHz	Temp./Humi.	:23.2/64
Test Mode	:Bandedge CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	36.97	14.83	51.80	54.00	-2.20
5150.00	Peak	56.44	14.83	71.27	74.00	-2.73

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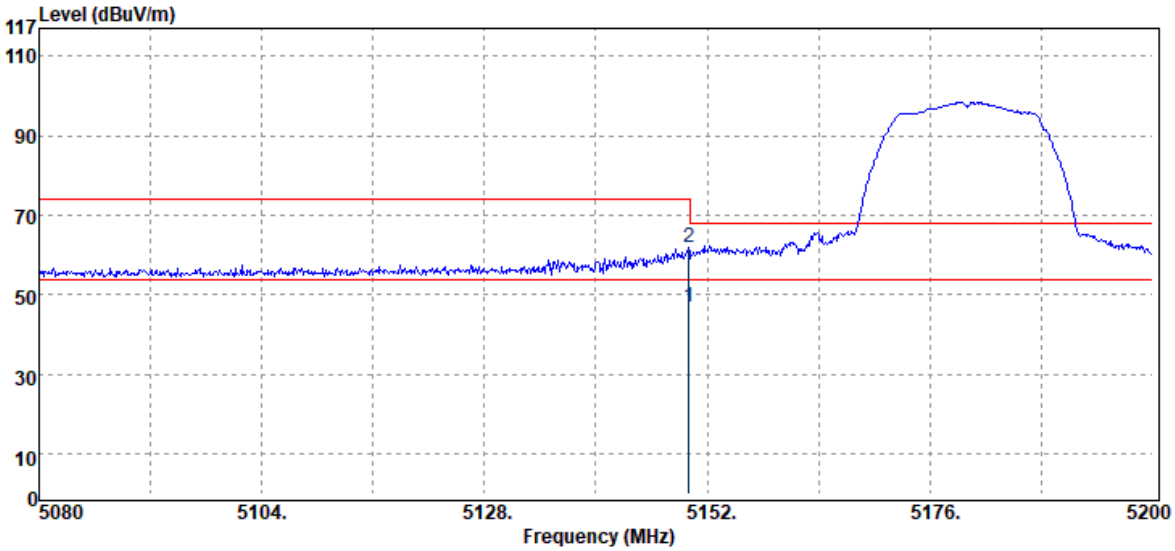
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-19
Test Frequency	:5180 MHz	Temp./Humi.	:23.2/64
Test Mode	:Bandedge CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	32.09	14.83	46.92	54.00	-7.08
5150.00	Peak	47.06	14.83	61.89	74.00	-12.11

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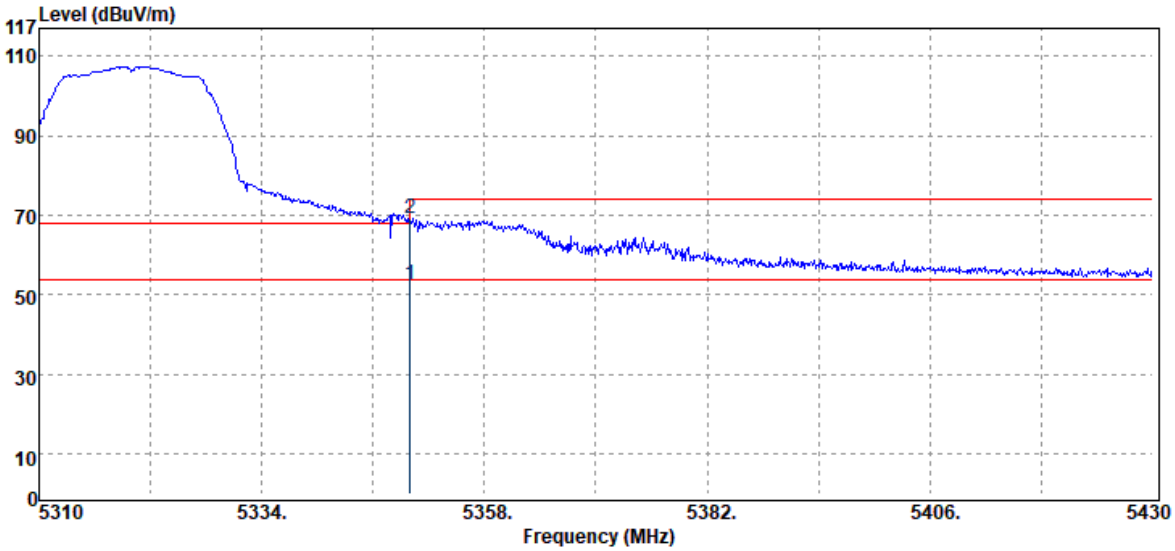
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-19
Test Frequency	:5320 MHz	Temp./Humi.	:23.2/64
Test Mode	:Bandedge CH High	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	38.39	14.20	52.59	54.00	-1.41
5350.00	Peak	55.06	14.20	69.26	74.00	-4.74

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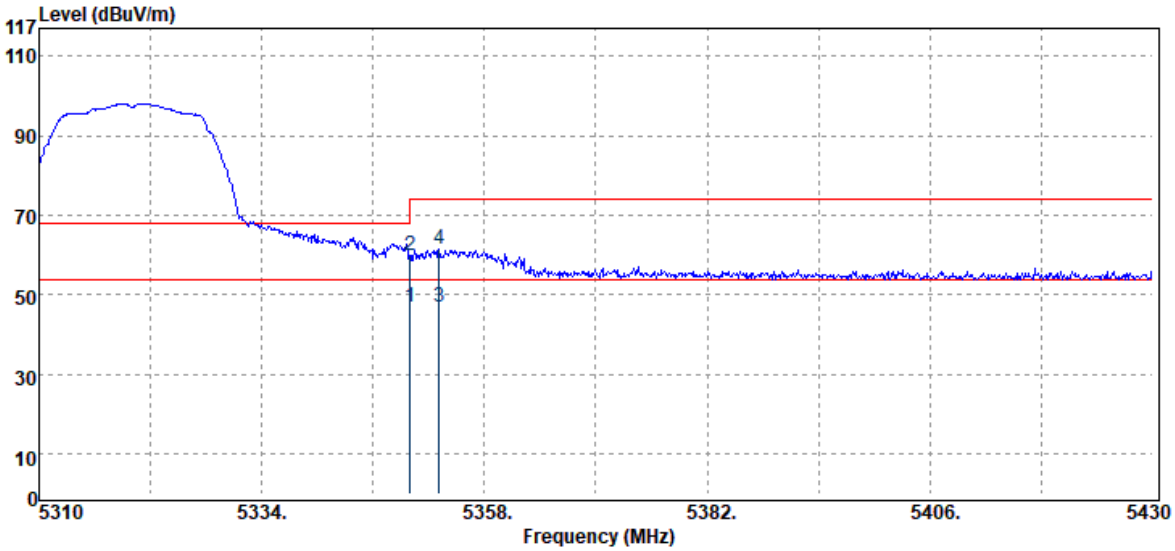
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-19
Test Frequency	:5320 MHz	Temp./Humi.	:23.2/64
Test Mode	:Bandedge CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	32.57	14.20	46.77	54.00	-7.23
5350.00	Peak	45.70	14.20	59.90	74.00	-14.10
5353.08	Average	32.54	14.24	46.78	54.00	-7.22
5353.08	Peak	47.19	14.24	61.43	74.00	-12.57

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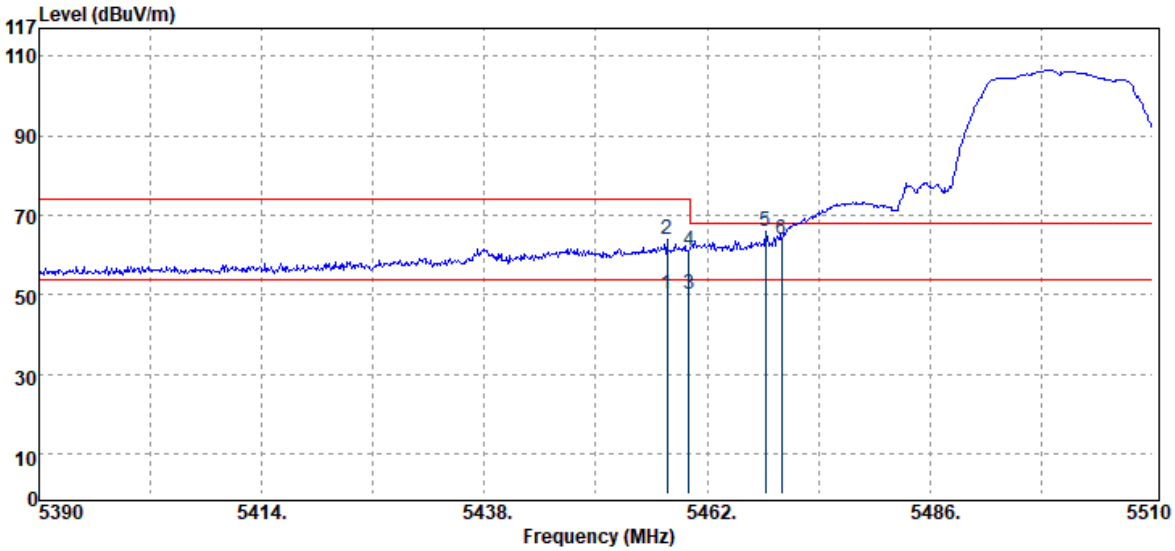
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-19
Test Frequency	:5500 MHz	Temp./Humi.	:23.2/64
Test Mode	:Bandedge CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5457.68	Average	35.73	14.56	50.29	54.00	-3.71
5457.68	Peak	49.36	14.56	63.92	74.00	-10.08
5460.00	Average	35.52	14.57	50.09	54.00	-3.91
5460.00	Peak	46.74	14.57	61.31	74.00	-12.69
5468.24	Peak	51.40	14.61	66.01	68.20	-2.19
5470.00	Peak	49.22	14.61	63.83	68.20	-4.37

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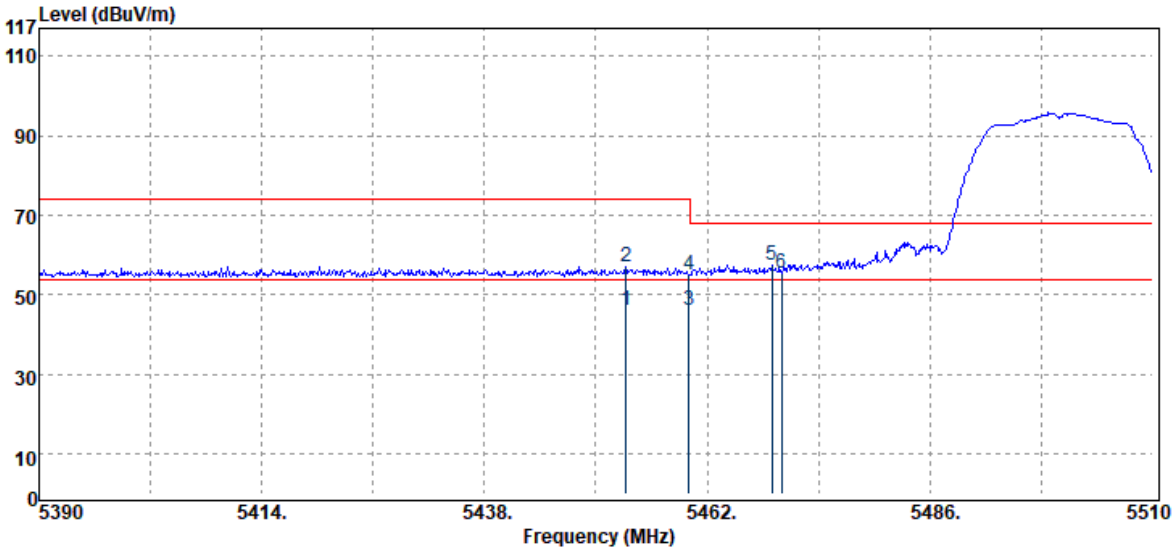
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-19
Test Frequency	:5500 MHz	Temp./Humi.	:23.2/64
Test Mode	:Bandedge CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5453.22	Average	31.48	14.54	46.02	54.00	-7.98
5453.22	Peak	42.72	14.54	57.26	74.00	-16.74
5460.00	Average	31.51	14.57	46.08	54.00	-7.92
5460.00	Peak	40.45	14.57	55.02	74.00	-18.98
5468.93	Peak	43.05	14.61	57.66	68.20	-10.54
5470.00	Peak	40.70	14.61	55.31	68.20	-12.89

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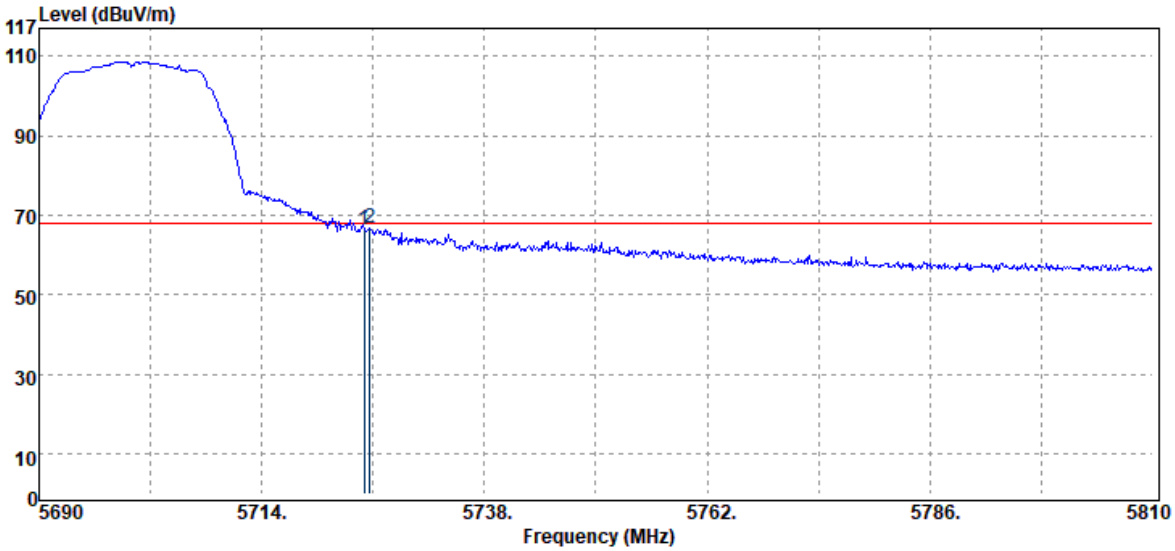
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-19
Test Frequency	:5700 MHz	Temp./Humi.	:23.2/64
Test Mode	:Bandedge CH High	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	50.87	15.48	66.35	68.20	-1.85
5725.64	Peak	51.12	15.48	66.60	68.20	-1.60

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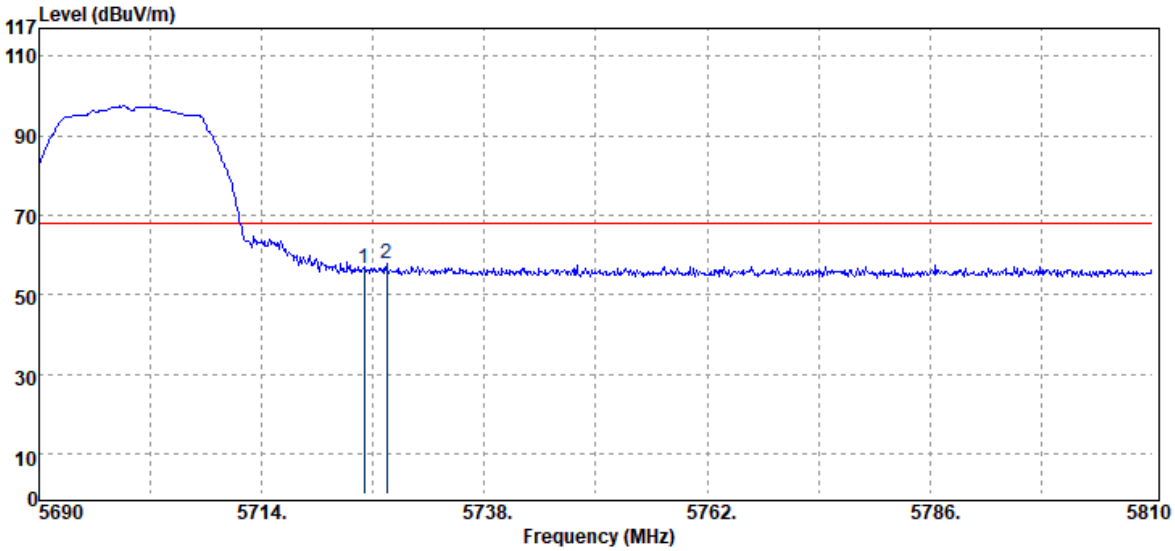
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-19
Test Frequency	:5700 MHz	Temp./Humi.	:23.2/64
Test Mode	:Bandedge CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.04	Peak	41.11	15.48	56.59	68.20	-11.61
5727.44	Peak	42.49	15.48	57.97	68.20	-10.23

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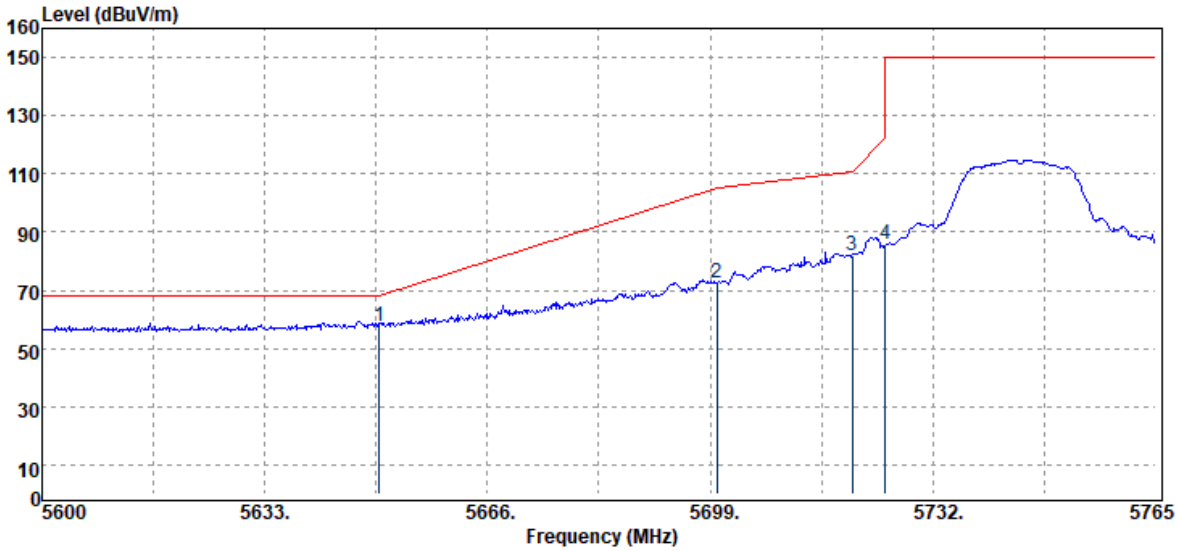
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-19
Test Frequency	:5745 MHz	Temp./Humi.	:23.2/64
Test Mode	:Bandedge CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	42.63	15.16	57.79	68.20	-10.41
5700.00	Peak	57.22	15.42	72.64	105.20	-32.56
5720.00	Peak	66.67	15.47	82.14	110.80	-28.66
5725.00	Peak	70.07	15.48	85.55	122.20	-36.65

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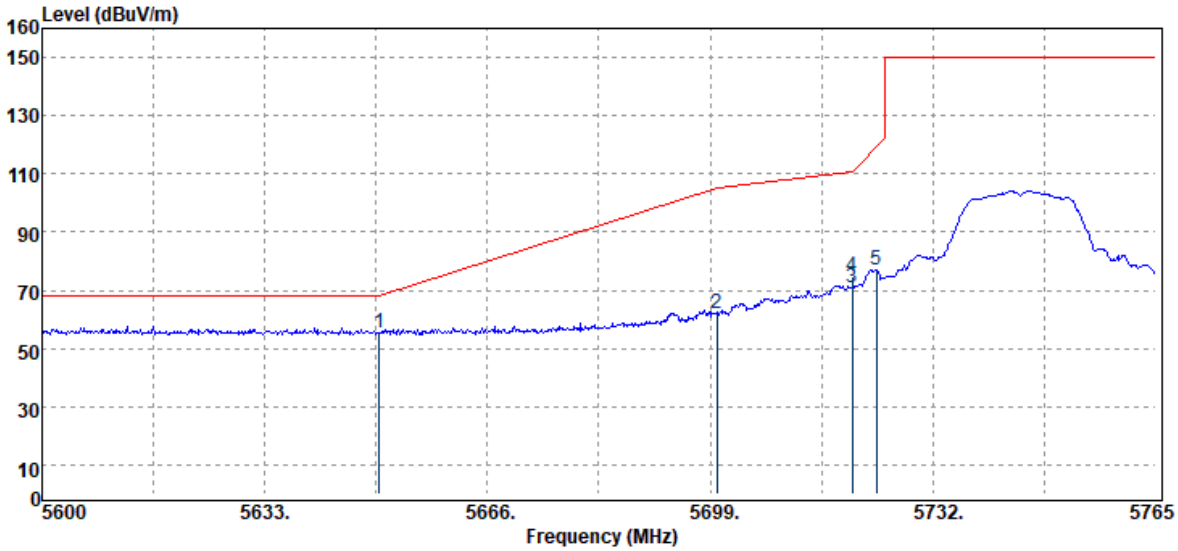
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-19
Test Frequency	:5745 MHz	Temp./Humi.	:23.2/64
Test Mode	:Bandedge CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	40.33	15.16	55.49	68.20	-12.71
5700.00	Peak	46.73	15.42	62.15	105.20	-43.05
5720.00	Peak	55.21	15.47	70.68	110.80	-40.12
5720.00	Peak	59.14	15.47	74.61	110.80	-36.19
5723.59	Peak	61.42	15.48	76.90	118.97	-42.07

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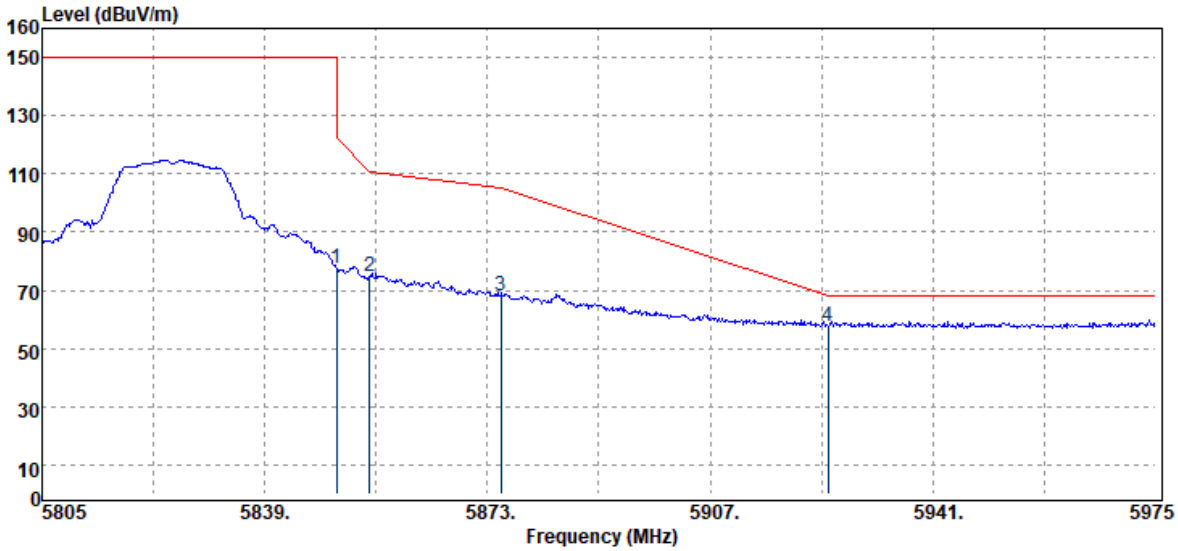
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-19
Test Frequency	:5825 MHz	Temp./Humi.	:23.2/64
Test Mode	:Bandedge CH High	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	61.87	15.75	77.62	122.20	-44.58
5855.00	Peak	58.74	15.75	74.49	110.80	-36.31
5875.00	Peak	52.16	15.75	67.91	105.20	-37.29
5925.00	Peak	41.54	16.06	57.60	68.20	-10.60

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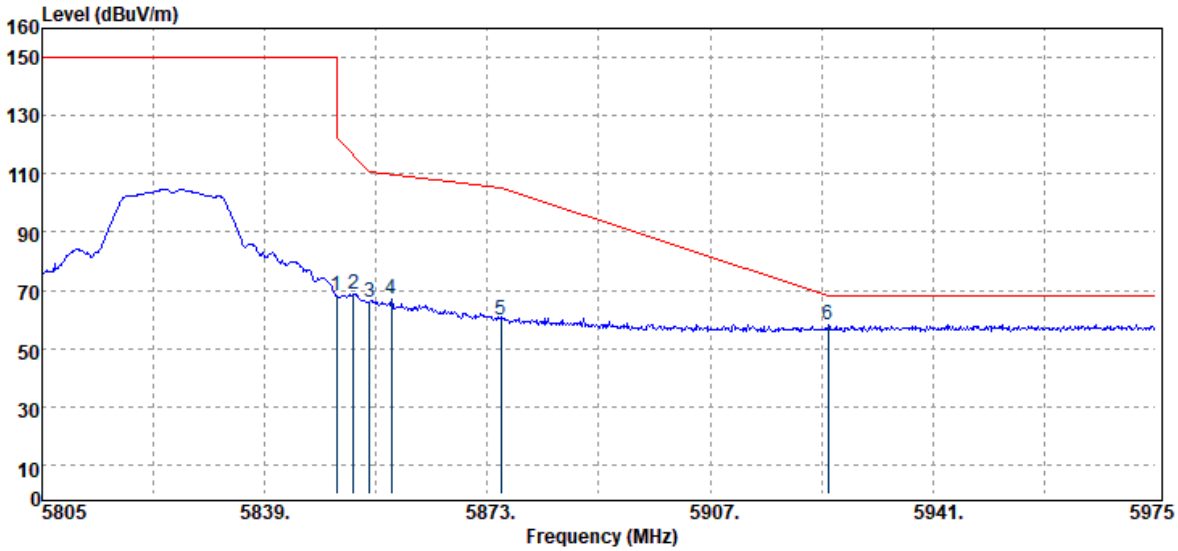
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11a	Test Date	:2020-10-19
Test Frequency	:5825 MHz	Temp./Humi.	:23.2/64
Test Mode	:Bandedge CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	52.31	15.75	68.06	122.20	-54.14
5852.60	Peak	52.96	15.76	68.72	116.27	-47.55
5855.00	Peak	50.35	15.75	66.10	110.80	-44.70
5858.38	Peak	50.98	15.75	66.73	109.85	-43.12
5875.00	Peak	44.07	15.75	59.82	105.20	-45.38
5925.00	Peak	42.12	16.06	58.18	68.20	-10.02

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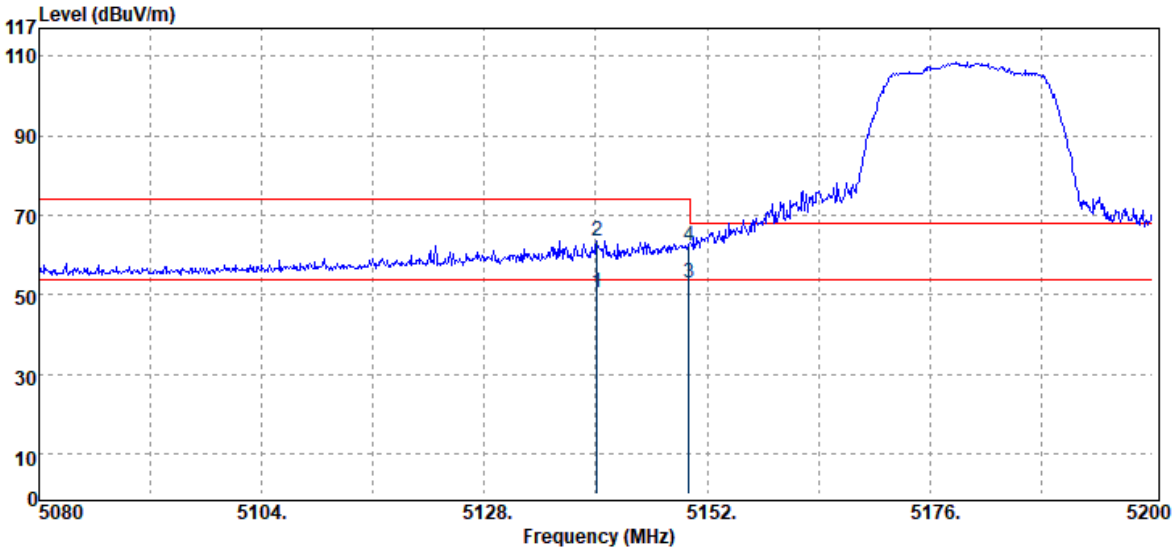
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n20	Test Date	:2020-10-17
Test Frequency	:5180 MHz	Temp./Humi.	:22.0/61
Test Mode	:Bandedge CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5140.12	Average	35.57	14.84	50.41	54.00	-3.59
5140.12	Peak	48.91	14.84	63.75	74.00	-10.25
5150.00	Average	38.05	14.83	52.88	54.00	-1.12
5150.00	Peak	47.55	14.83	62.38	74.00	-11.62

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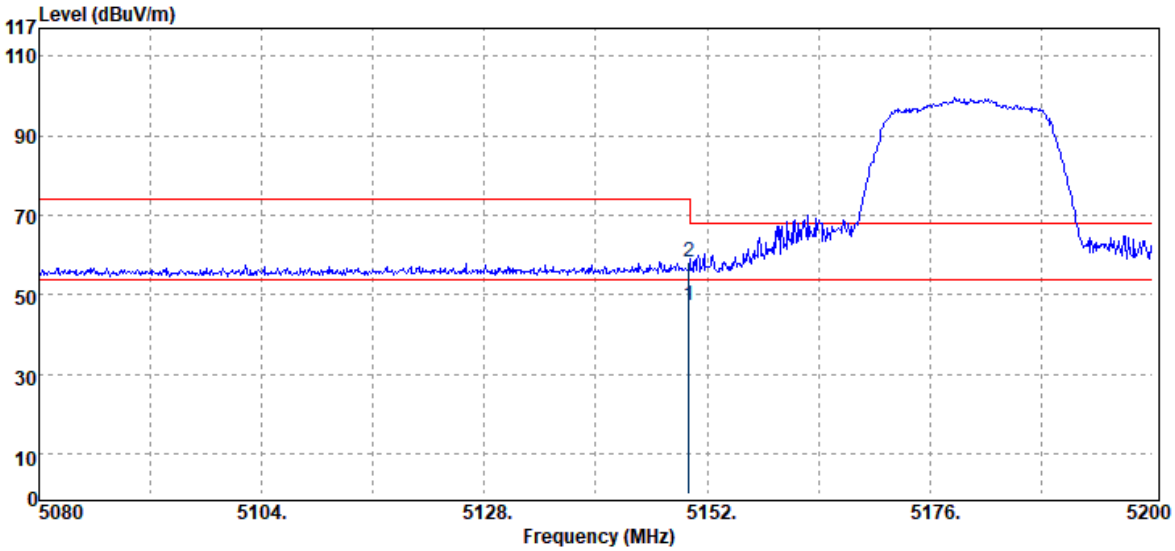
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n20	Test Date	:2020-10-17
Test Frequency	:5180 MHz	Temp./Humi.	:22.0/61
Test Mode	:Bandedge CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	32.48	14.83	47.31	54.00	-6.69
5150.00	Peak	43.47	14.83	58.30	74.00	-15.70

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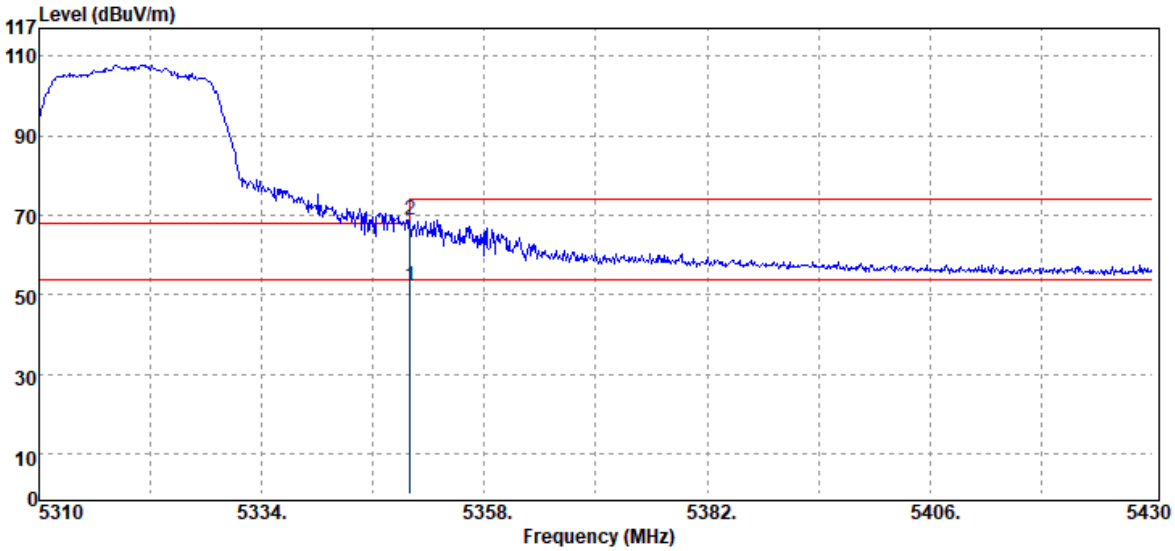
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n20	Test Date	:2020-10-17
Test Frequency	:5320 MHz	Temp./Humi.	:22.0/61
Test Mode	:Bandedge CH High	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	38.17	14.20	52.37	54.00	-1.63
5350.00	Peak	54.57	14.20	68.77	74.00	-5.23

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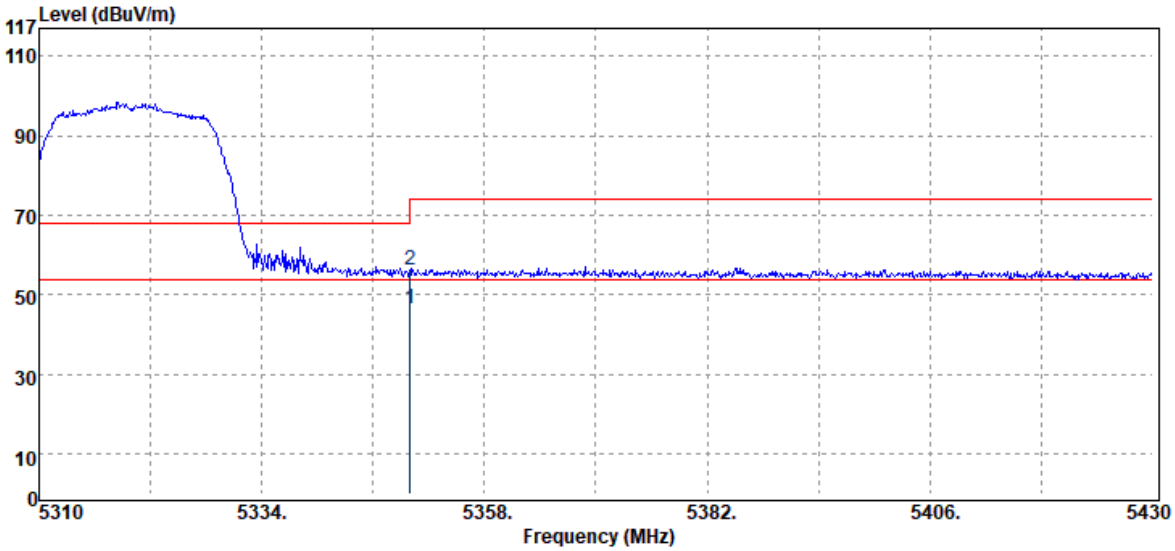
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n20	Test Date	:2020-10-17
Test Frequency	:5320 MHz	Temp./Humi.	:22.0/61
Test Mode	:Bandedge CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	32.53	14.20	46.73	54.00	-7.27
5350.00	Peak	41.98	14.20	56.18	74.00	-17.82

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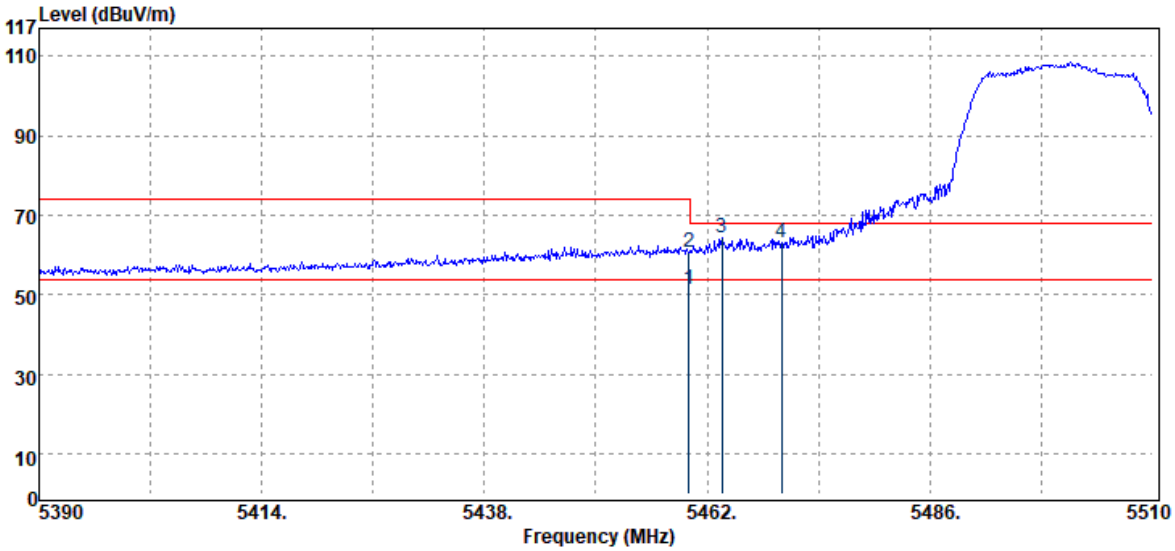
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n20	Test Date	:2020-10-17
Test Frequency	:5500 MHz	Temp./Humi.	:22.0/61
Test Mode	:Bandedge CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	36.77	14.57	51.34	54.00	-2.66
5460.00	Peak	46.24	14.57	60.81	74.00	-13.19
5463.56	Peak	49.58	14.59	64.17	68.20	-4.03
5470.00	Peak	48.38	14.61	62.99	68.20	-5.21

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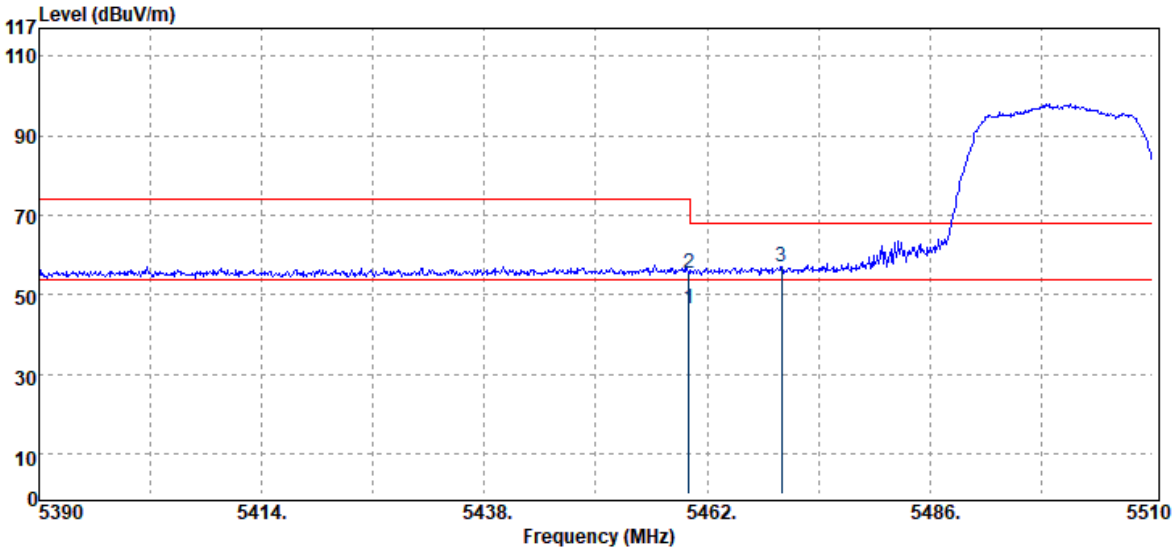
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n20	Test Date	:2020-10-17
Test Frequency	:5500 MHz	Temp./Humi.	:22.0/61
Test Mode	:Bandedge CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	32.16	14.57	46.73	54.00	-7.27
5460.00	Peak	41.03	14.57	55.60	74.00	-18.40
5470.00	Peak	42.36	14.61	56.97	68.20	-11.23

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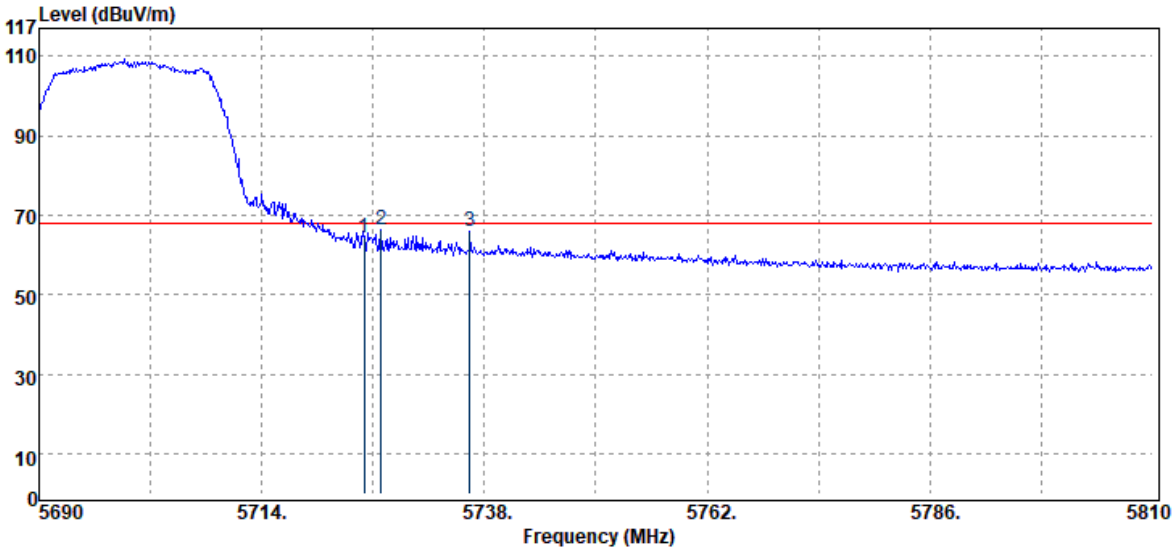
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n20	Test Date	:2020-10-17
Test Frequency	:5700 MHz	Temp./Humi.	:22.0/61
Test Mode	:Bandedge CH High	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	48.72	15.48	64.20	68.20	-4.00
5726.84	Peak	51.08	15.48	66.56	68.20	-1.64
5736.44	Peak	50.68	15.50	66.18	68.20	-2.02

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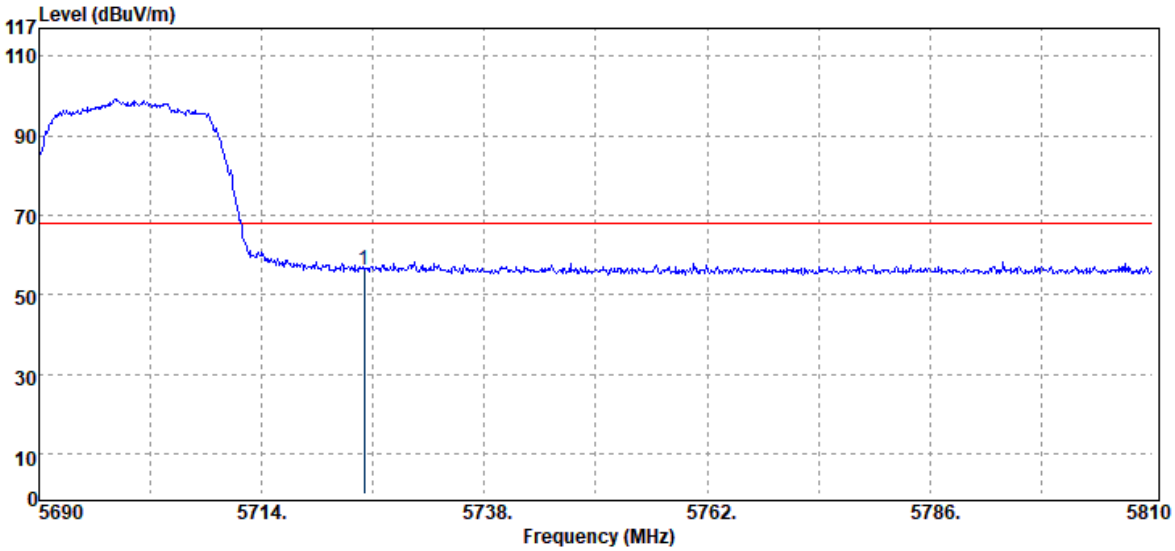
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n20	Test Date	:2020-10-17
Test Frequency	:5700 MHz	Temp./Humi.	:22.0/61
Test Mode	:Bandedge CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	40.98	15.48	56.46	68.20	-11.74

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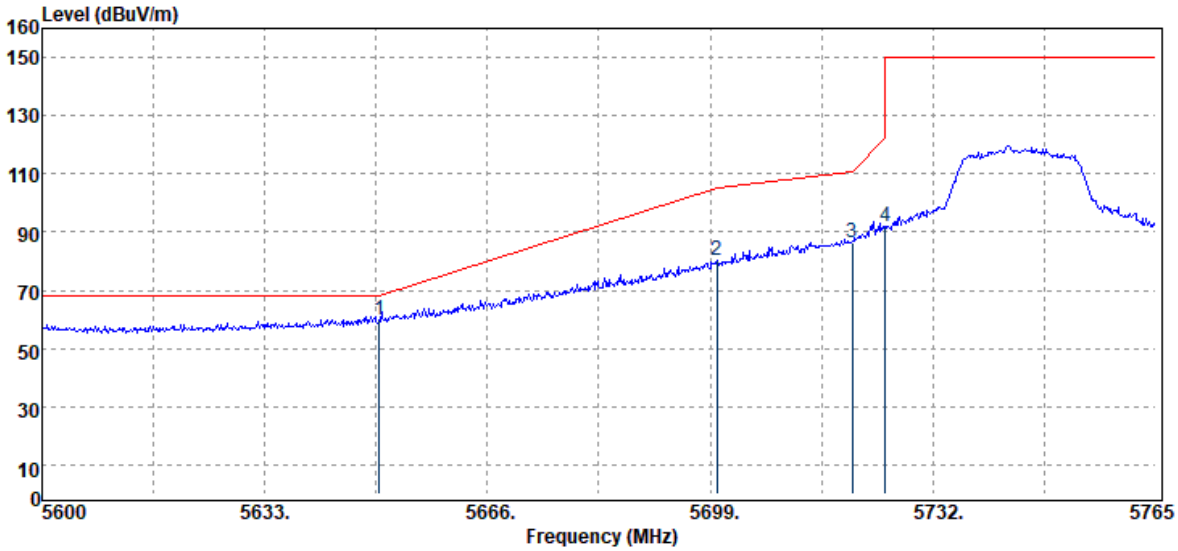
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n20	Test Date	:2020-10-17
Test Frequency	:5745 MHz	Temp./Humi.	:22.0/61
Test Mode	:Bandedge CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	44.80	15.16	59.96	68.20	-8.24
5700.00	Peak	64.84	15.42	80.26	105.20	-24.94
5720.00	Peak	70.70	15.47	86.17	110.80	-24.63
5725.00	Peak	76.42	15.48	91.90	122.20	-30.30

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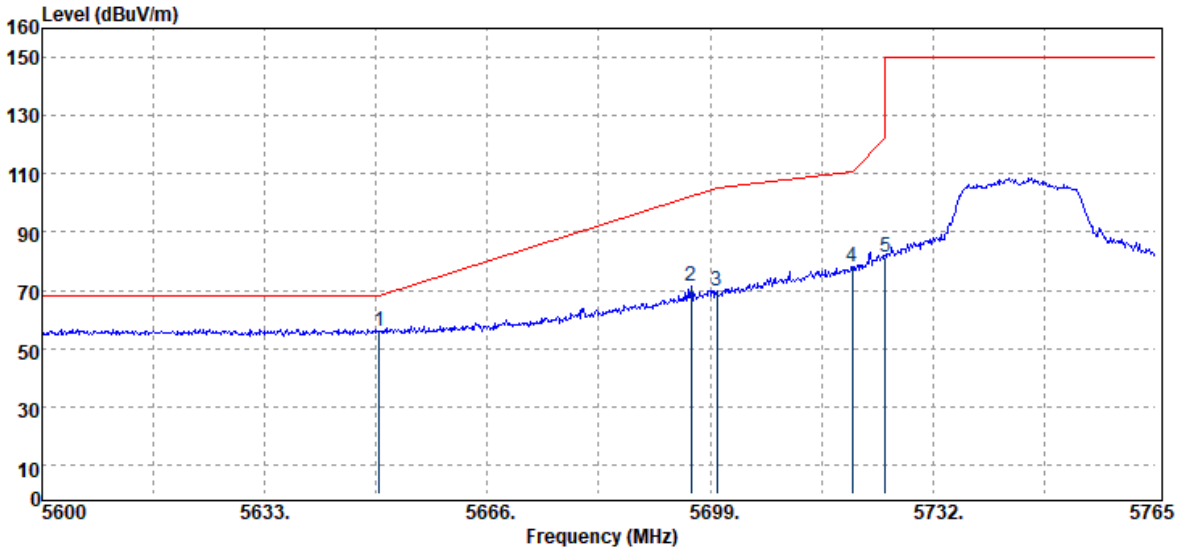
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n20	Test Date	:2020-10-17
Test Frequency	:5745 MHz	Temp./Humi.	:22.0/61
Test Mode	:Bandedge CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	40.89	15.16	56.05	68.20	-12.15
5696.20	Peak	55.83	15.40	71.23	102.38	-31.15
5700.00	Peak	54.17	15.42	69.59	105.20	-35.61
5720.00	Peak	62.58	15.47	78.05	110.80	-32.75
5725.00	Peak	65.86	15.48	81.34	122.20	-40.86

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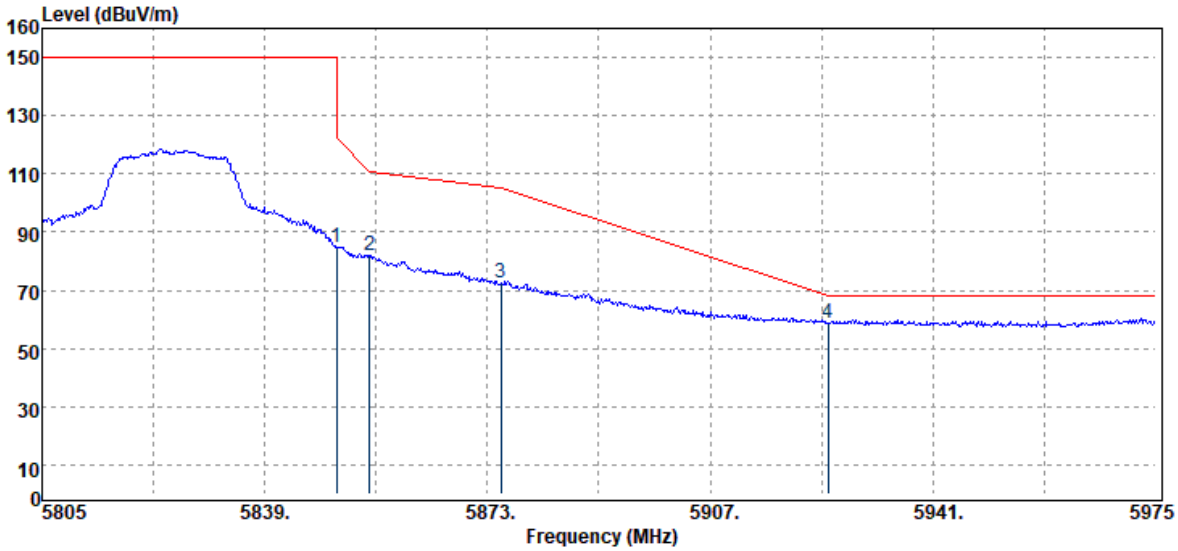
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n20	Test Date	:2020-10-17
Test Frequency	:5825 MHz	Temp./Humi.	:22.0/61
Test Mode	:Bandedge CH High	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	69.16	15.75	84.91	122.20	-37.29
5855.00	Peak	66.45	15.75	82.20	110.80	-28.60
5875.00	Peak	56.53	15.75	72.28	105.20	-32.92
5925.00	Peak	42.45	16.06	58.51	68.20	-9.69

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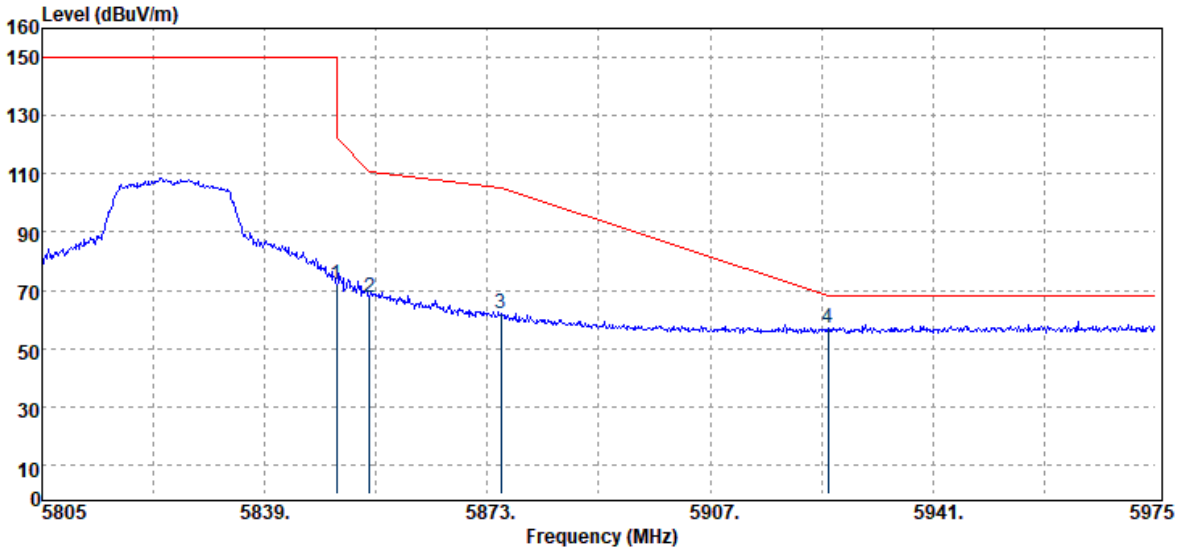
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n20	Test Date	:2020-10-17
Test Frequency	:5825 MHz	Temp./Humi.	:22.0/61
Test Mode	:Bandedge CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	56.45	15.75	72.20	122.20	-50.00
5855.00	Peak	51.74	15.75	67.49	110.80	-43.31
5875.00	Peak	46.12	15.75	61.87	105.20	-43.33
5925.00	Peak	40.70	16.06	56.76	68.20	-11.44

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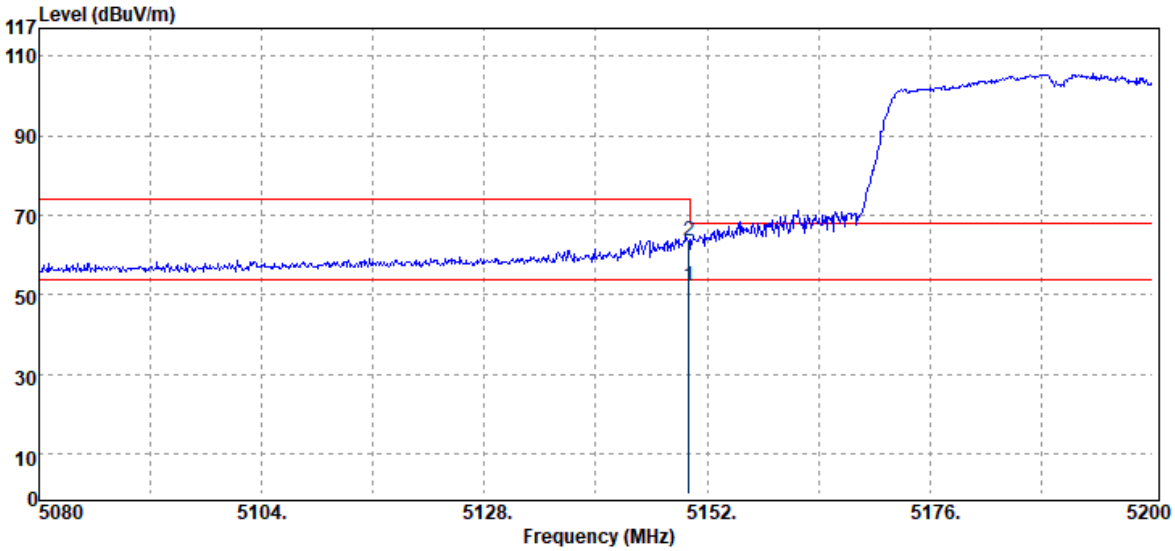
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n40	Test Date	:2020-10-17
Test Frequency	:5190 MHz	Temp./Humi.	:22.0/61
Test Mode	:Bandedge CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	37.21	14.83	52.04	54.00	-1.96
5150.00	Peak	48.85	14.83	63.68	74.00	-10.32

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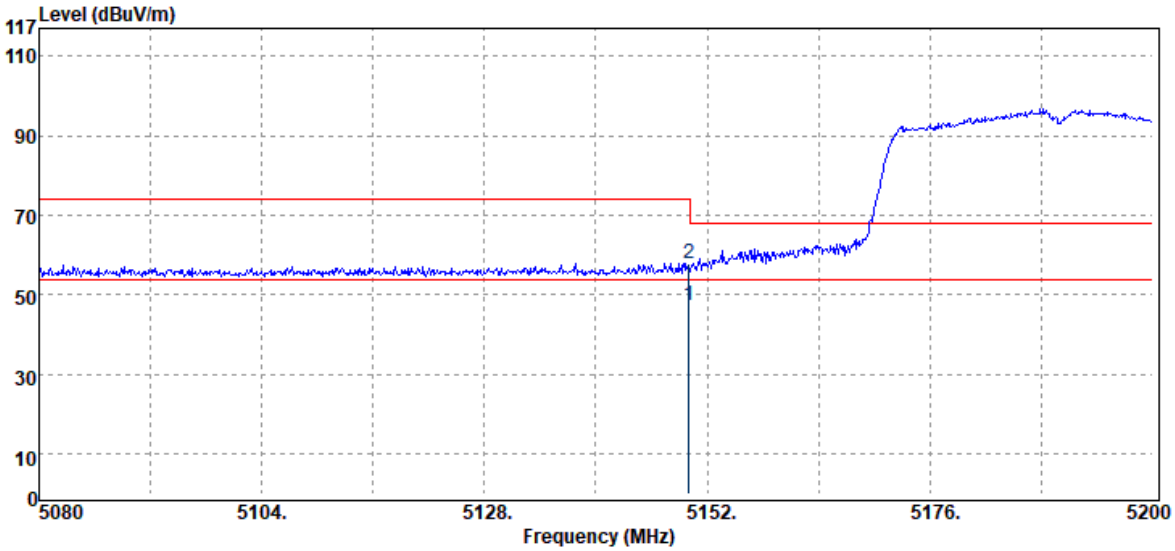
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n40	Test Date	:2020-10-17
Test Frequency	:5190 MHz	Temp./Humi.	:22.0/61
Test Mode	:Bandedge CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	32.49	14.83	47.32	54.00	-6.68
5150.00	Peak	43.24	14.83	58.07	74.00	-15.93

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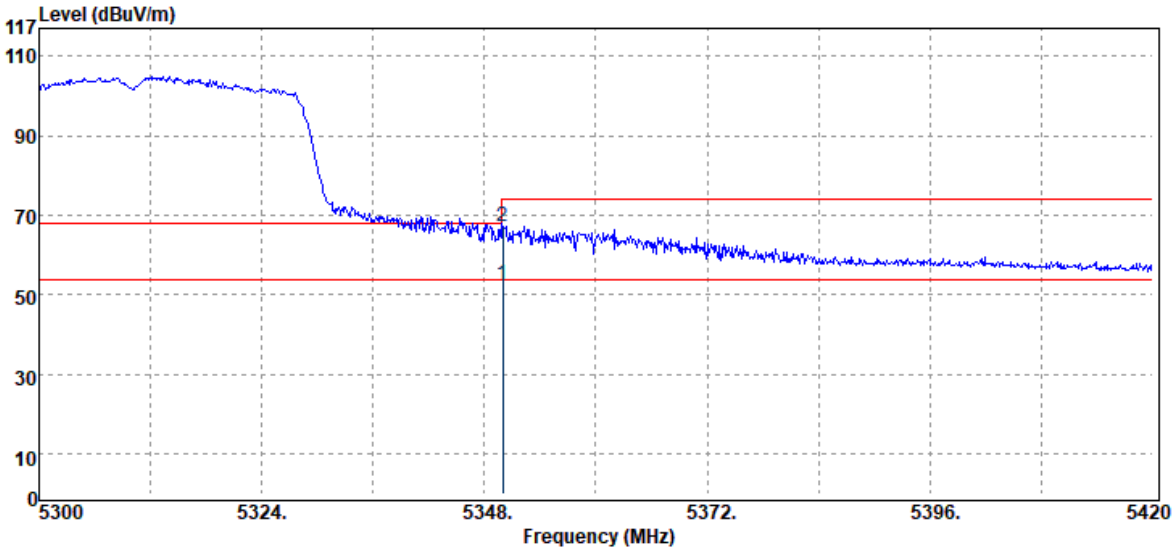
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n40	Test Date	:2020-10-17
Test Frequency	:5310 MHz	Temp./Humi.	:22.0/61
Test Mode	:Bandedge CH High	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	38.35	14.20	52.55	54.00	-1.45
5350.00	Peak	53.09	14.20	67.29	74.00	-6.71

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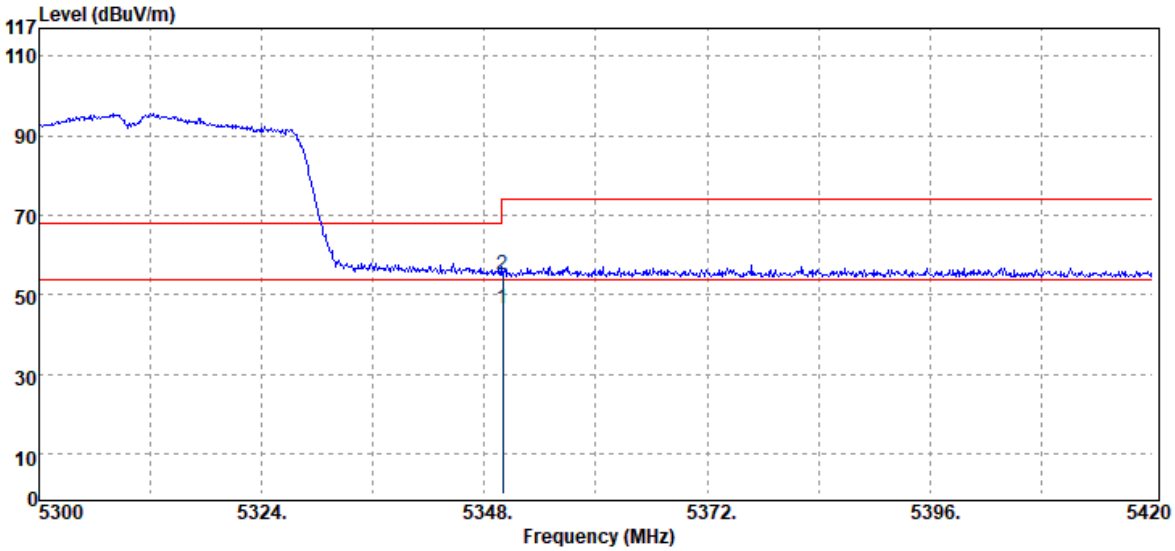
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n40	Test Date	:2020-10-17
Test Frequency	:5310 MHz	Temp./Humi.	:22.0/61
Test Mode	:Bandedge CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	32.48	14.20	46.68	54.00	-7.32
5350.00	Peak	40.81	14.20	55.01	74.00	-18.99

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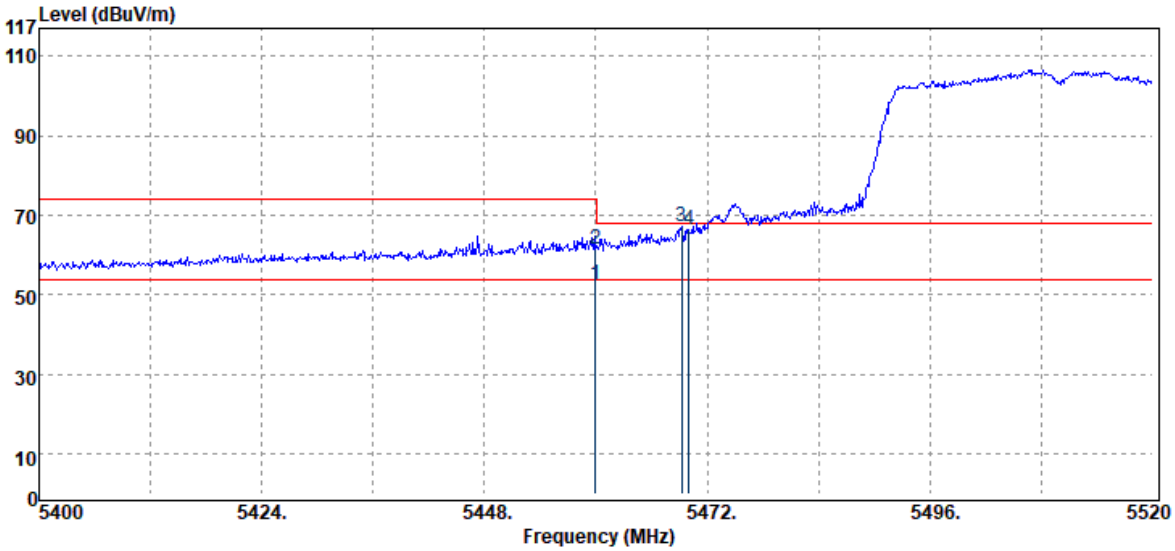
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n40	Test Date	:2020-10-17
Test Frequency	:5510 MHz	Temp./Humi.	:22.0/61
Test Mode	:Bandedge CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	37.95	14.57	52.52	54.00	-1.48
5460.00	Peak	47.07	14.57	61.64	74.00	-12.36
5469.24	Peak	52.48	14.61	67.09	68.20	-1.11
5470.00	Peak	51.70	14.61	66.31	68.20	-1.89

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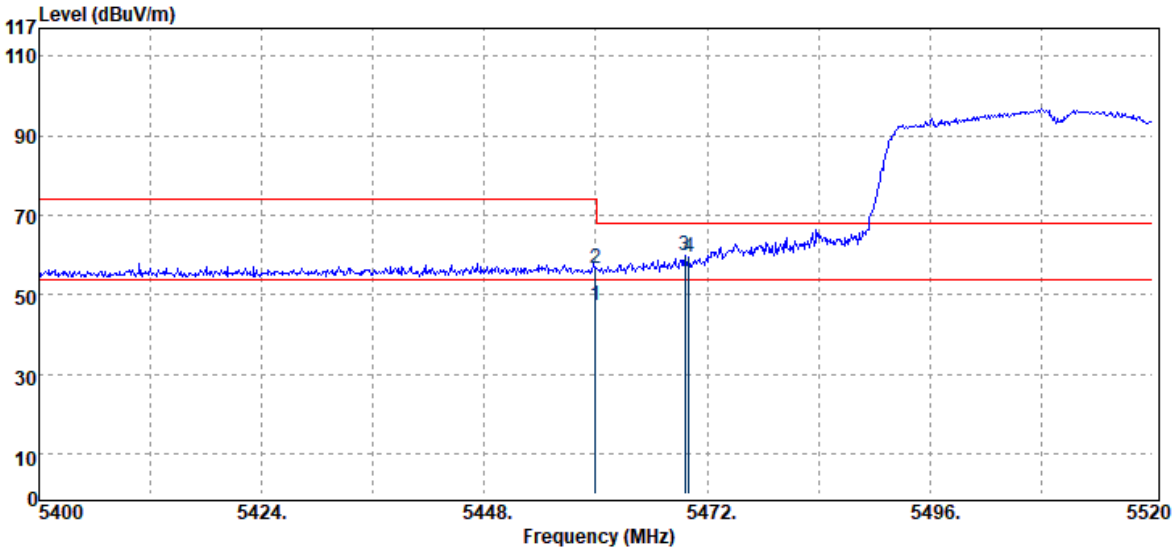
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n40	Test Date	:2020-10-17
Test Frequency	:5510 MHz	Temp./Humi.	:22.0/61
Test Mode	:Bandedge CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	32.61	14.57	47.18	54.00	-6.82
5460.00	Peak	42.17	14.57	56.74	74.00	-17.26
5469.60	Peak	45.29	14.62	59.91	68.20	-8.29
5470.00	Peak	44.75	14.61	59.36	68.20	-8.84

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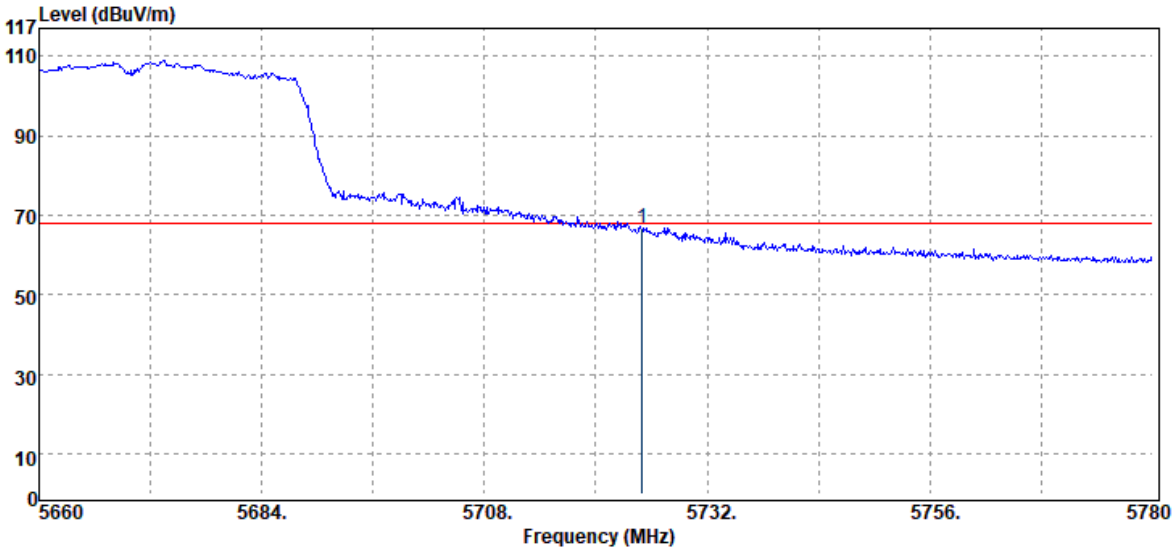
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n40	Test Date	:2020-10-17
Test Frequency	:5670 MHz	Temp./Humi.	:22.0/61
Test Mode	:Bandedge CH High	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	51.51	15.48	66.99	68.20	-1.21

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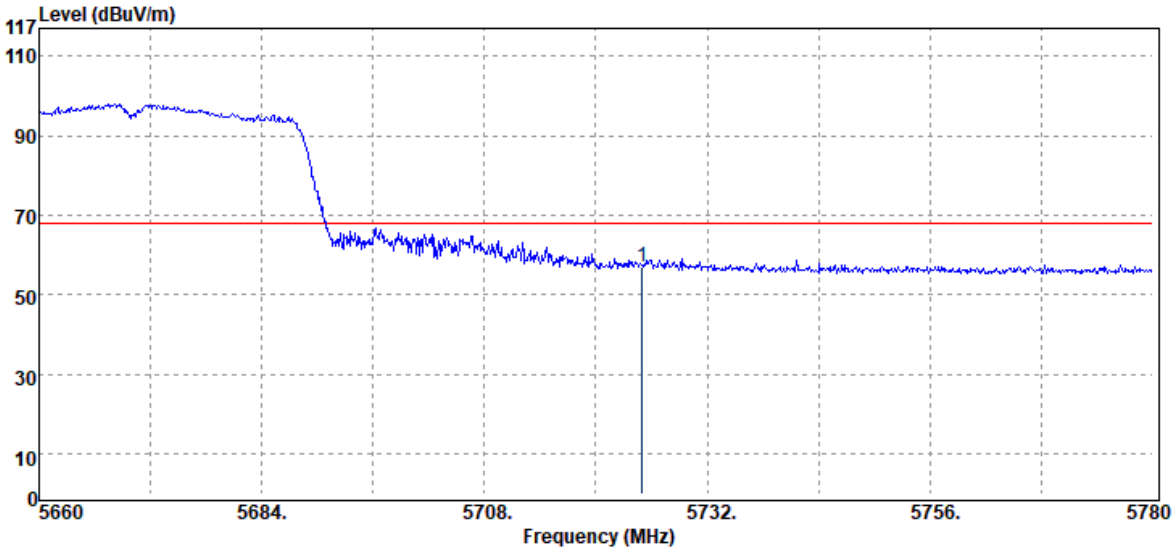
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n40	Test Date	:2020-10-17
Test Frequency	:5670 MHz	Temp./Humi.	:22.0/61
Test Mode	:Bandedge CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	41.78	15.48	57.26	68.20	-10.94

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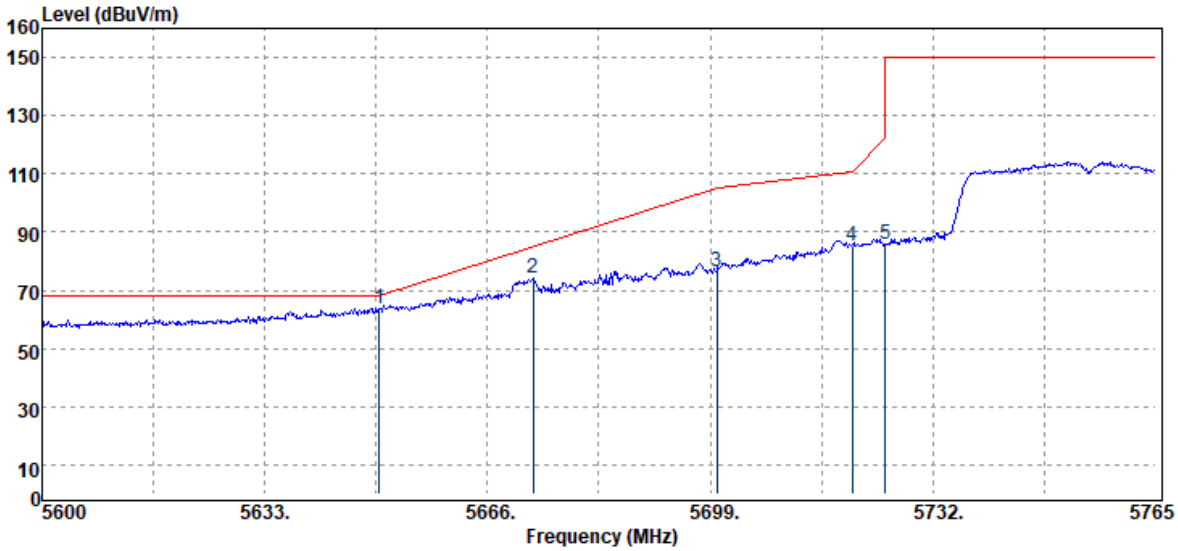
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n40	Test Date	:2020-10-17
Test Frequency	:5755 MHz	Temp./Humi.	:22.0/61
Test Mode	:Bandedge CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	48.25	15.16	63.41	68.20	-4.79
5672.77	Peak	58.91	15.28	74.19	85.05	-10.86
5700.00	Peak	61.04	15.42	76.46	105.20	-28.74
5720.00	Peak	69.74	15.47	85.21	110.80	-25.59
5725.00	Peak	70.59	15.48	86.07	122.20	-36.13

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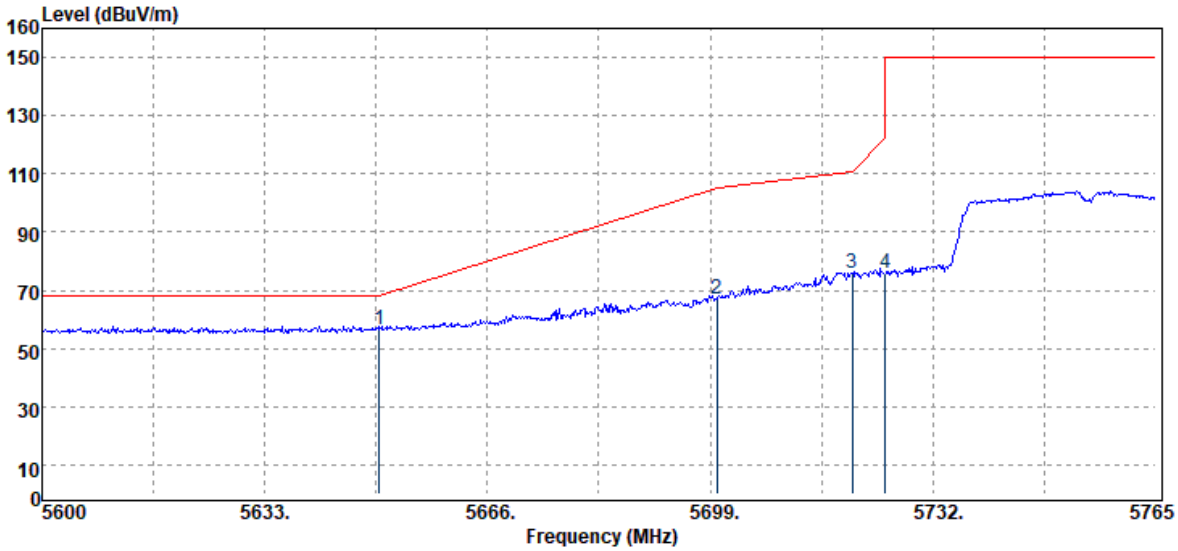
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n40	Test Date	:2020-10-17
Test Frequency	:5755 MHz	Temp./Humi.	:22.0/61
Test Mode	:Bandedge CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	41.27	15.16	56.43	68.20	-11.77
5700.00	Peak	51.80	15.42	67.22	105.20	-37.98
5720.00	Peak	60.22	15.47	75.69	110.80	-35.11
5725.00	Peak	60.59	15.48	76.07	122.20	-46.13

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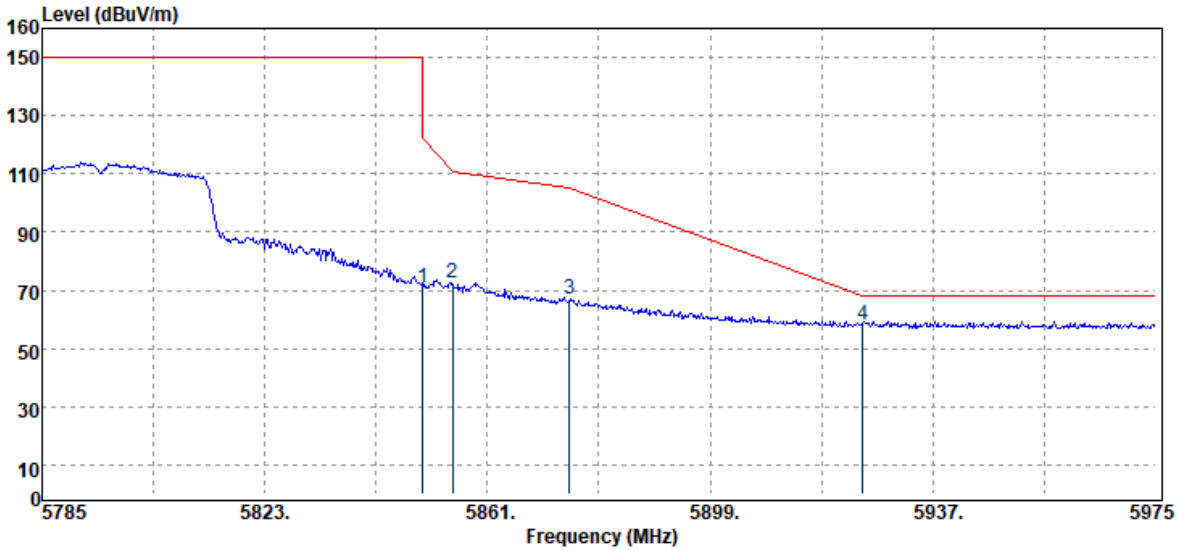
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n40	Test Date	:2020-10-17
Test Frequency	:5795 MHz	Temp./Humi.	:22.0/61
Test Mode	:Bandedge CH High	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	55.31	15.75	71.06	122.20	-51.14
5855.00	Peak	56.66	15.75	72.41	110.80	-38.39
5875.00	Peak	51.11	15.75	66.86	105.20	-38.34
5925.00	Peak	42.02	16.06	58.08	68.20	-10.12

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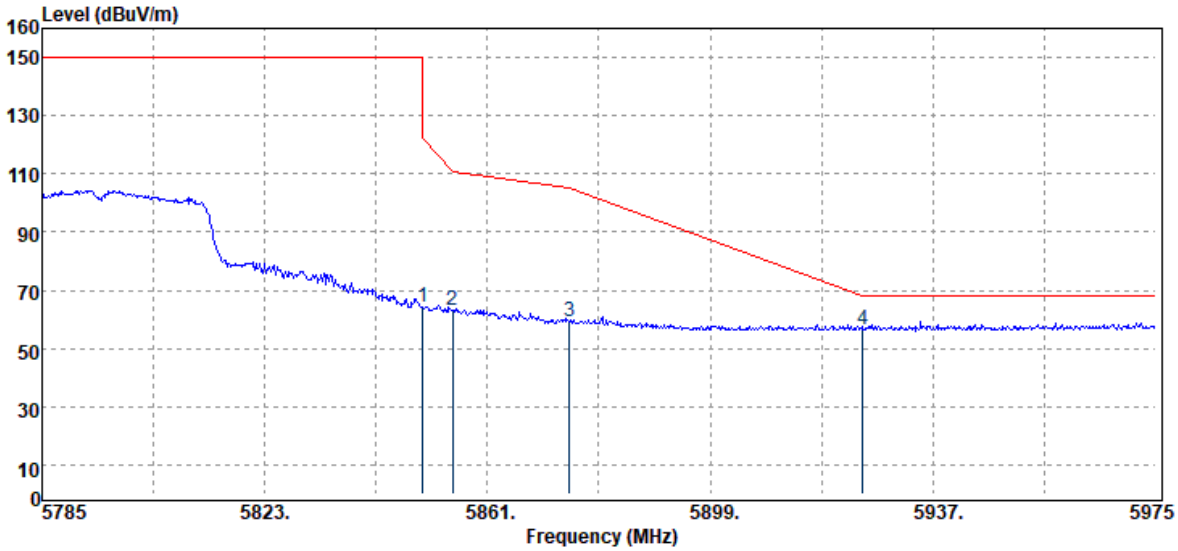
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11n40	Test Date	:2020-10-17
Test Frequency	:5795 MHz	Temp./Humi.	:22.0/61
Test Mode	:Bandedge CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	48.29	15.75	64.04	122.20	-58.16
5855.00	Peak	47.47	15.75	63.22	110.80	-47.58
5875.00	Peak	43.71	15.75	59.46	105.20	-45.74
5925.00	Peak	40.43	16.06	56.49	68.20	-11.71

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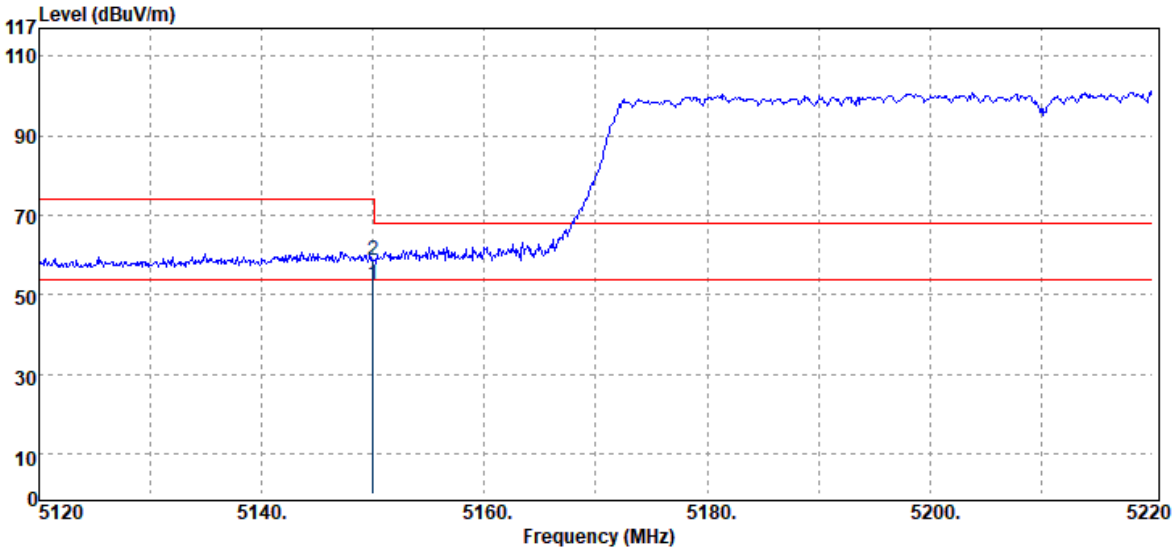
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11ac80	Test Date	:2020-10-17
Test Frequency	:5210 MHz	Temp./Humi.	:22.0/61
Test Mode	:Bandedge CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	37.65	14.83	52.48	54.00	-1.52
5150.00	Peak	43.91	14.83	58.74	74.00	-15.26

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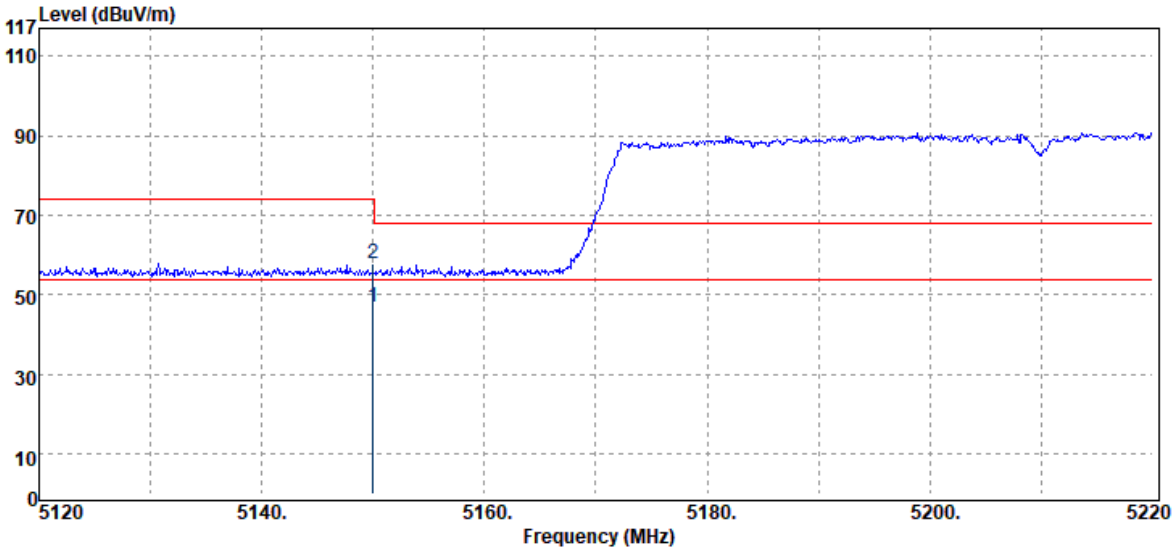
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11ac80	Test Date	:2020-10-17
Test Frequency	:5210 MHz	Temp./Humi.	:22.0/61
Test Mode	:Bandedge CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	32.13	14.83	46.96	54.00	-7.04
5150.00	Peak	42.92	14.83	57.75	74.00	-16.25

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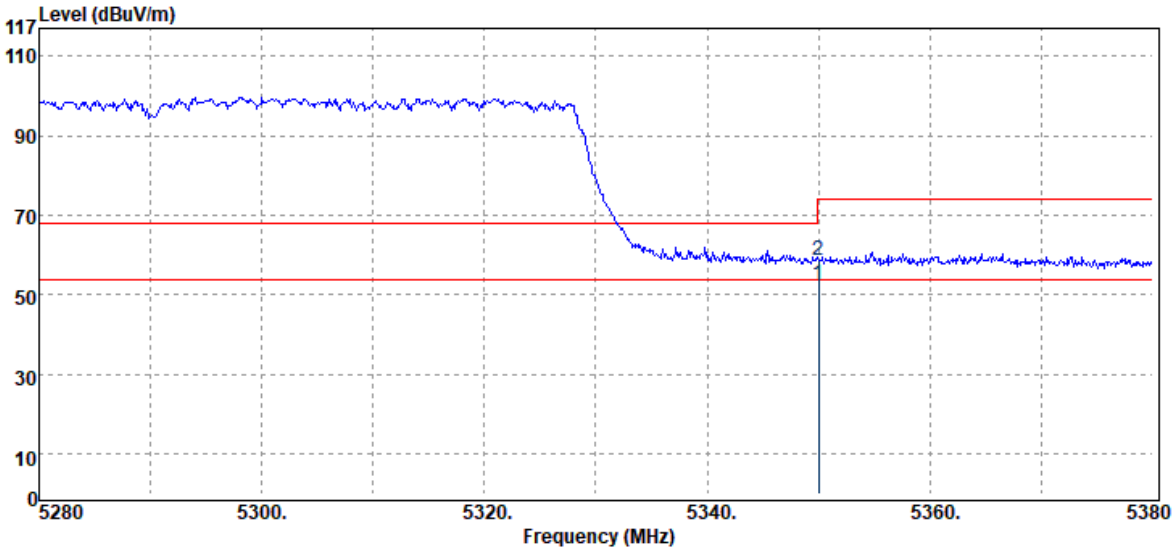
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11ac80	Test Date	:2020-10-17
Test Frequency	:5290 MHz	Temp./Humi.	:22.0/61
Test Mode	:Bandedge CH High	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	38.40	14.20	52.60	54.00	-1.40
5350.00	Peak	44.34	14.20	58.54	74.00	-15.46

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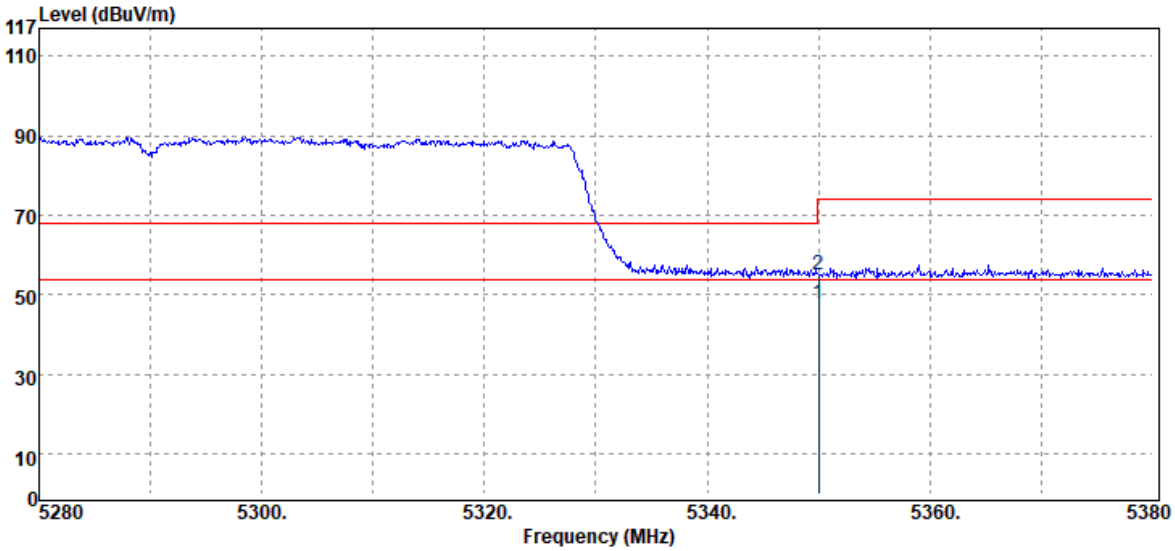
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11ac80	Test Date	:2020-10-17
Test Frequency	:5290 MHz	Temp./Humi.	:22.0/61
Test Mode	:Bandedge CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	33.42	14.20	47.62	54.00	-6.38
5350.00	Peak	40.75	14.20	54.95	74.00	-19.05

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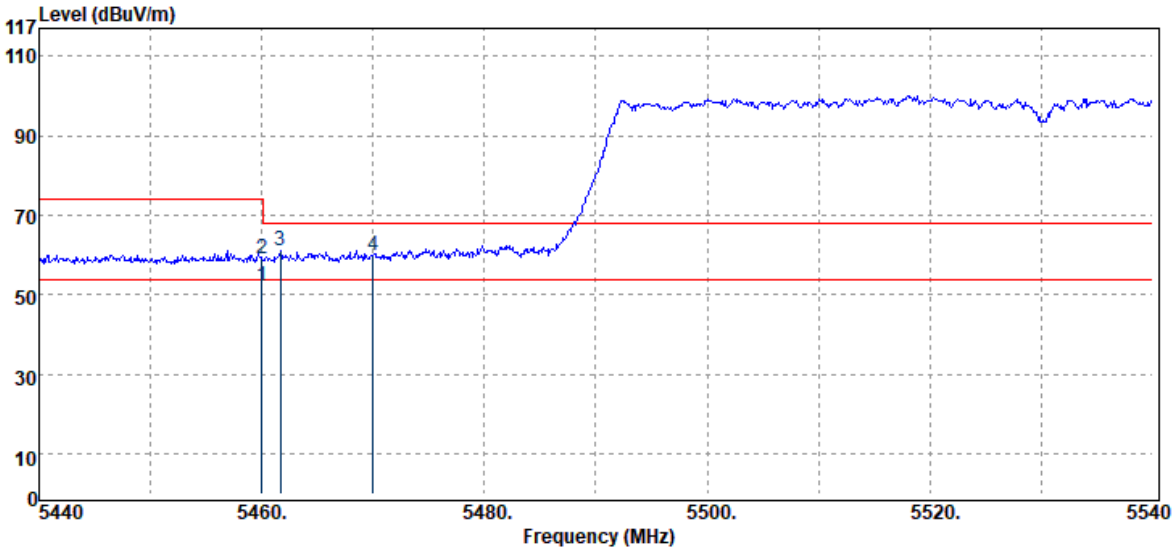
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11ac80	Test Date	:2020-10-17
Test Frequency	:5530 MHz	Temp./Humi.	:22.0/61
Test Mode	:Bandedge CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	37.81	14.57	52.38	54.00	-1.62
5460.00	Peak	44.64	14.57	59.21	74.00	-14.79
5461.70	Peak	46.53	14.58	61.11	68.20	-7.09
5470.00	Peak	45.17	14.61	59.78	68.20	-8.42

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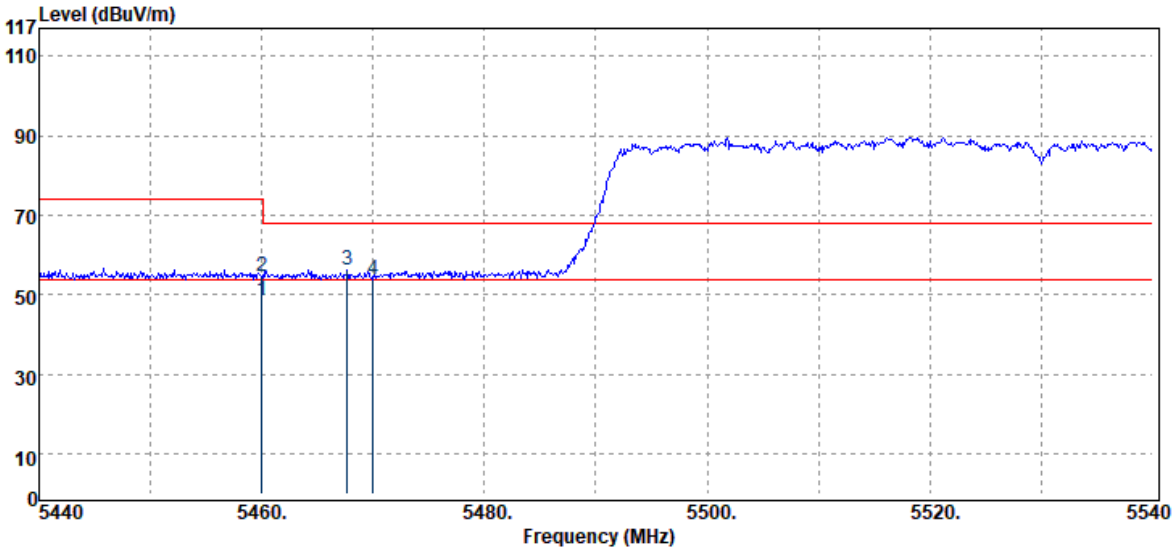
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11ac80	Test Date	:2020-10-17
Test Frequency	:5530 MHz	Temp./Humi.	:22.0/61
Test Mode	:Bandedge CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	33.91	14.57	48.48	54.00	-5.52
5460.00	Peak	40.04	14.57	54.61	74.00	-19.39
5467.70	Peak	41.53	14.60	56.13	68.20	-12.07
5470.00	Peak	39.25	14.61	53.86	68.20	-14.34

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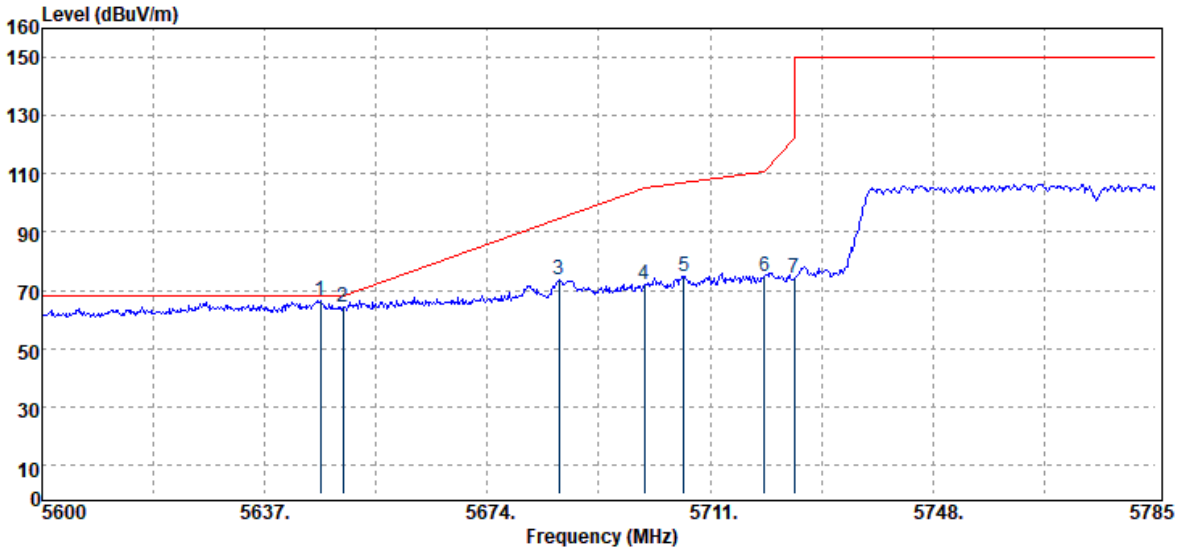
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11ac80	Test Date	:2020-10-17
Test Frequency	:5775 MHz	Temp./Humi.	:22.0/61
Test Mode	:Bandedge CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5646.25	Peak	51.10	15.18	66.28	68.20	-1.92
5650.00	Peak	49.09	15.16	64.25	68.20	-3.95
5685.84	Peak	58.26	15.35	73.61	94.72	-21.11
5700.00	Peak	56.73	15.42	72.15	105.20	-33.05
5706.56	Peak	59.44	15.43	74.87	107.04	-32.17
5720.00	Peak	59.26	15.47	74.73	110.80	-36.07
5725.00	Peak	58.78	15.48	74.26	122.20	-47.94

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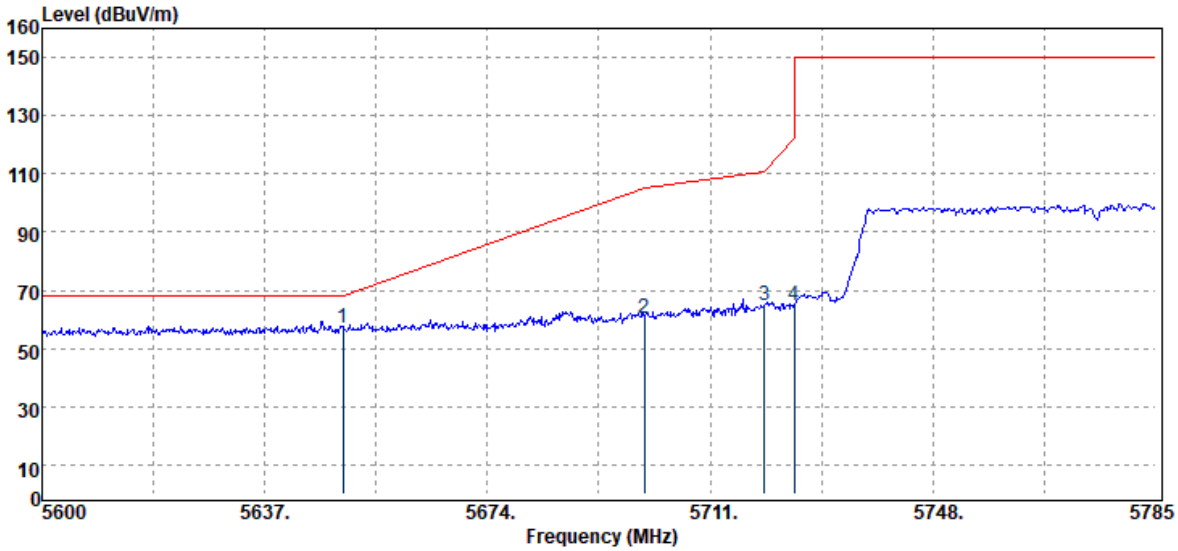
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11ac80	Test Date	:2020-10-17
Test Frequency	:5775 MHz	Temp./Humi.	:22.0/61
Test Mode	:Bandedge CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	41.90	15.16	57.06	68.20	-11.14
5700.00	Peak	45.17	15.42	60.59	105.20	-44.61
5720.00	Peak	49.27	15.47	64.74	110.80	-46.06
5725.00	Peak	49.18	15.48	64.66	122.20	-57.54

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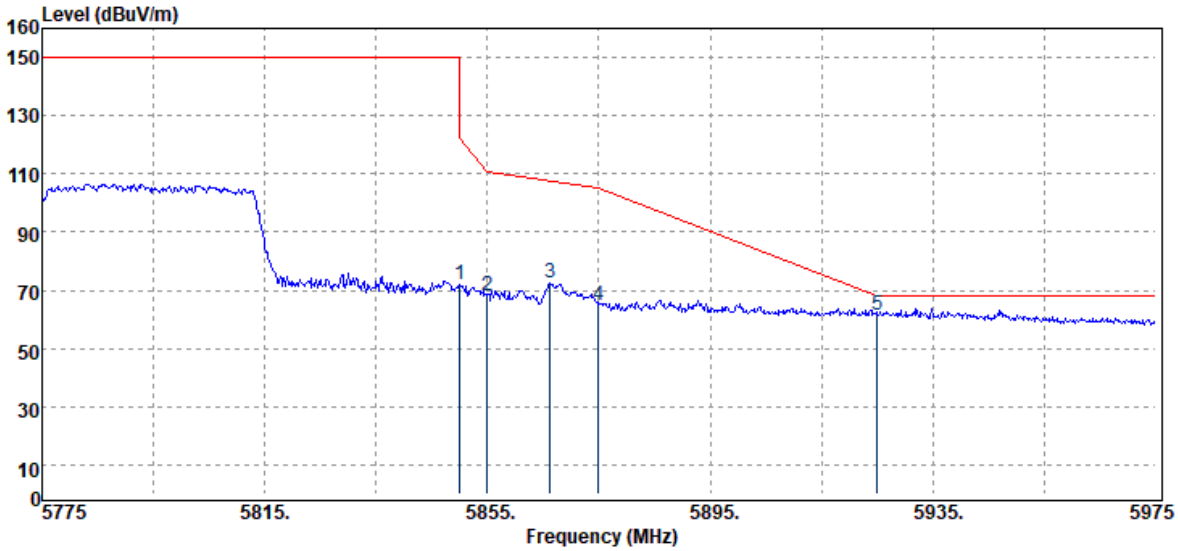
Report Number	:ER/2020/90109	Test Site	:SAC I Chamber
Operation Mode	:802.11ac80	Test Date	:2020-10-17
Test Frequency	:5775 MHz	Temp./Humi.	:22.0/61
Test Mode	:Bandedge CH High	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	56.15	15.75	71.90	122.20	-50.30
5855.00	Peak	52.39	15.75	68.14	110.80	-42.66
5866.20	Peak	56.63	15.75	72.38	107.66	-35.28
5875.00	Peak	49.23	15.75	64.98	105.20	-40.22
5925.00	Peak	45.45	16.06	61.51	68.20	-6.69

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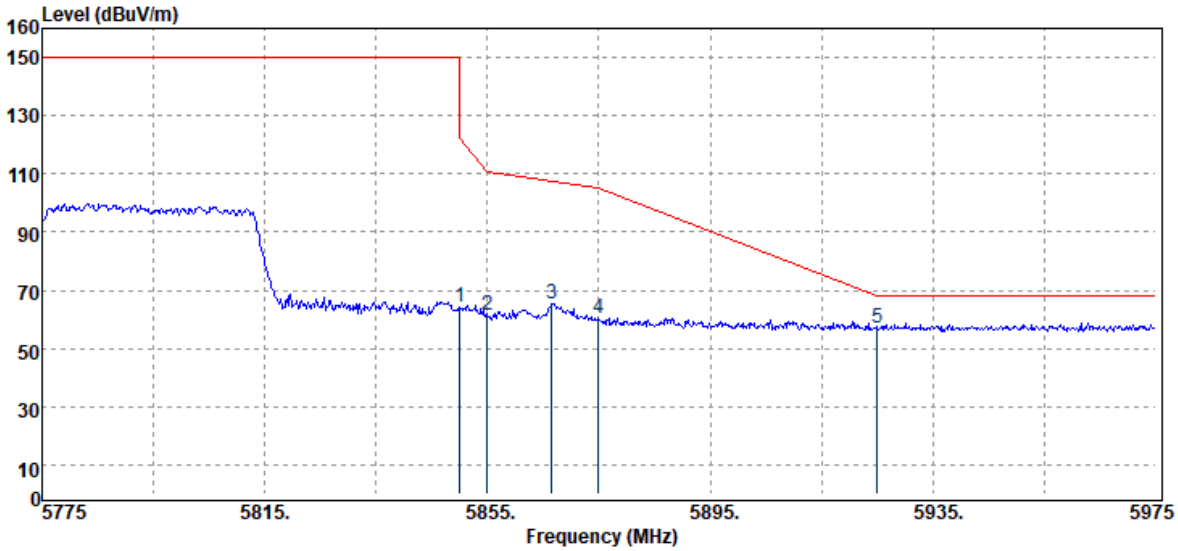
Operation Mode	:802.11ac80	Test Date	:2020-10-17
Test Frequency	:5775 MHz	Temp./Humi.	:22.0/61
Test Mode	:Bandedge CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:E1 Plane	Engineer	:Neo



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	48.21	15.75	63.96	122.20	-58.24
5855.00	Peak	45.60	15.75	61.35	110.80	-49.45
5866.60	Peak	49.44	15.75	65.19	107.55	-42.36
5875.00	Peak	44.43	15.75	60.18	105.20	-45.02
5925.00	Peak	41.05	16.06	57.11	68.20	-11.09

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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 FREQUENCY STABILITY

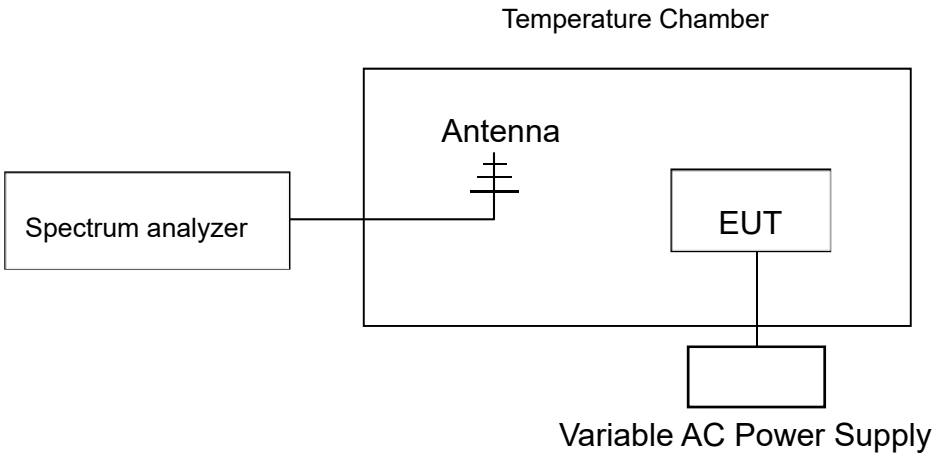
13.1 Standard Applicable

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

13.2 Measurement Procedure

1. The EUT was placed inside temperature chamber and powered and powered by nominal DC voltage.
2. Set EUT as normal operation.
3. Turn the EUT on and couple its output to spectrum.
4. Turn the EUT off and set the chamber to the highest temperature specified.
5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT and measure the operating frequency.
6. Repeat step with the temperature chamber set to the lowest temperature.

13.3 Test SET-UP



13.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	05/06/2020	05/05/2021
Temperature Chamber	TERCHY	MHG-120LF	911009	05/20/2020	05/19/2021
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020
DC Power Supply	Agilent	E3640A	MY52410006	12/10/2019	12/09/2020
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021

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13.5 Measurement Result

Start up

Operation Mode	802.11 a	Test Date	2020.10.26
Temperature	24.5	Test By	Tom
Humidity			62

Test Temp.(℃)	Test Voltage(V)	Channel	Frequency (MHz)	Measured Frequency (MHz)	ΔFrequency (ppm)
85	4.8	36	5180	5,179.91300	-16.80
	3	36	5180	5,179.98800	-2.32
25	3.3	36	5180	5,179.94000	-11.58
-40	4.8	36	5180	5,180.05400	10.42
	3	36	5180	5,180.06200	11.97

2 minutes

Operation Mode	802.11 a	Test Date	2020.10.26
Temperature	24.5	Test By	Tom
Humidity			62

Test Temp.(℃)	Test Voltage(V)	Channel	Frequency (MHz)	Measured Frequency (MHz)	ΔFrequency (ppm)
85	4.8	36	5180	5,179.99300	-1.35
	3	36	5180	5,179.99300	-1.35
25	3.3	36	5180	5,179.92100	-15.25
-40	4.8	36	5180	5,180.06000	11.58
	3	36	5180	5,180.05500	10.62

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5 minutes

Operation Mode	802.11 a	Test Date	2020.10.26
Temperature	24.5	Test By	Tom
Humidity			62

Test Temp.(℃)	Test Voltage(V)	Channel	Frequency (MHz)	Measured Frequency (MHz)	ΔFrequency (ppm)
85	4.8	36	5180	5,179.94300	-11.00
	3	36	5180	5,179.90100	-19.11
25	3.3	36	5180	5,179.99400	-1.16
-40	4.8	36	5180	5,180.05500	10.62
	3	36	5180	5,180.01500	2.90

10 minutes

Operation Mode	802.11 a	Test Date	2020.10.26
Temperature	24.5	Test By	Tom
Humidity			62

Test Temp.(℃)	Test Voltage(V)	Channel	Frequency (MHz)	Measured Frequency (MHz)	ΔFrequency (ppm)
85	4.8	36	5180	5,179.95600	-8.49
	3	36	5180	5,179.99100	-1.74
25	3.3	36	5180	5,179.92700	-14.09
-40	4.8	36	5180	5,180.00500	0.97
	3	36	5180	5,180.02500	4.83

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14 ANTENNA REQUIREMENT

14.1 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.

14.2 Antenna Connected Construction

The antenna is designed with unique RF connector and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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