

802.11a 5470~5725 MHz

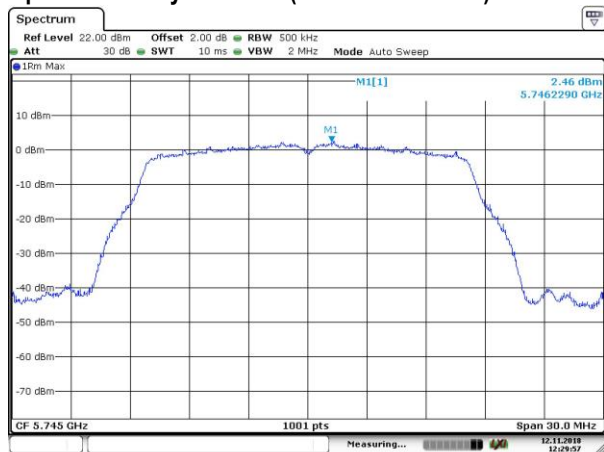
Power Spectral Density Data Plot (CH Low 5500 MHz)



Date: 12 NOV 2018 12:16:54

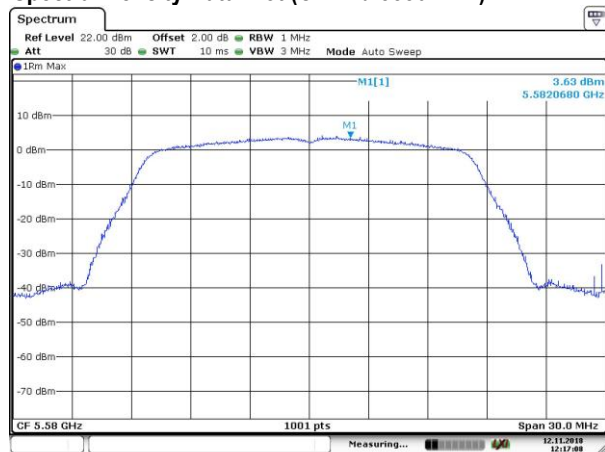
802.11a 5725~5850 MHz

Power Spectral Density Data Plot (CH Low 5745 MHz)



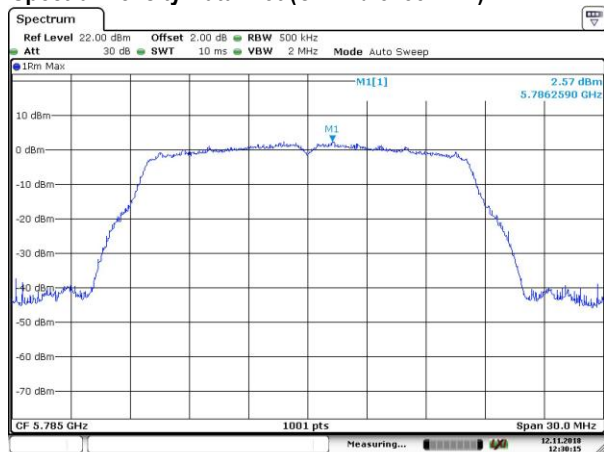
Date: 12 NOV 2018 12:29:58

Power Spectral Density Data Plot (CH Mid 5580 MHz)



Date: 12 NOV 2018 12:17:08

Power Spectral Density Data Plot (CH Mid 5785 MHz)



Date: 12 NOV 2018 12:30:16

Power Spectral Density Data Plot (CH High 5700 MHz)



Date: 12 NOV 2018 12:17:24

Power Spectral Density Data Plot (CH High 5825 MHz)



Date: 12 NOV 2018 12:30:49

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802.11n HT20, 5150~5250 MHz
Power Spectral Density Data Plot (CH Low 5180 MHz)



Date: 12 NOV 2018 12:18:57

802.11n HT20, 5250~5350 MHz
Power Spectral Density Data Plot (CH Low 5260MHz)



Date: 12 NOV 2018 12:21:16

Power Spectral Density Data Plot (CH Mid 5220 MHz)



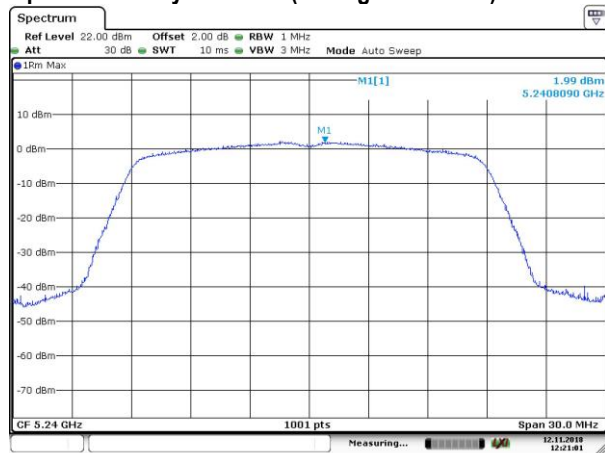
Date: 12 NOV 2018 12:20:47

Power Spectral Density Data Plot (CH Mid 5300 MHz)



Date: 12 NOV 2018 12:21:29

Power Spectral Density Data Plot (CH High 5240 MHz)



Date: 12 NOV 2018 12:21:01

Power Spectral Density Data Plot (CH High 5320 MHz)



Date: 12 NOV 2018 12:21:44

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802.11n HT20, 5470~5725 MHz

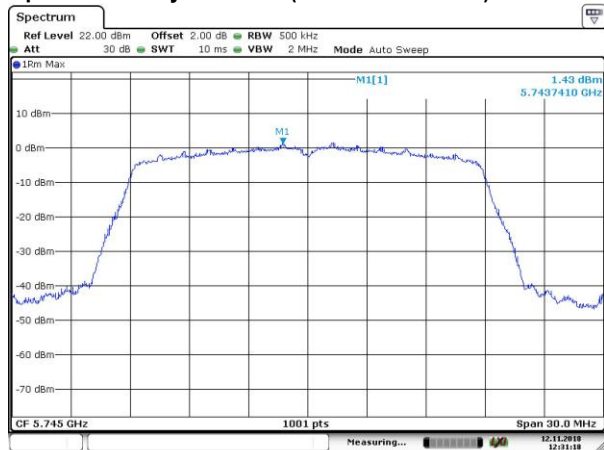
Power Spectral Density Data Plot (CH Low 5500 MHz)



Date: 12.NOV.2018 12:22:17

802.11n HT20, 5725~5850 MHz

Power Spectral Density Data Plot (CH Low 5745 MHz)



Date: 12.NOV.2018 12:31:19

Power Spectral Density Data Plot (CH Mid 5580MHz)



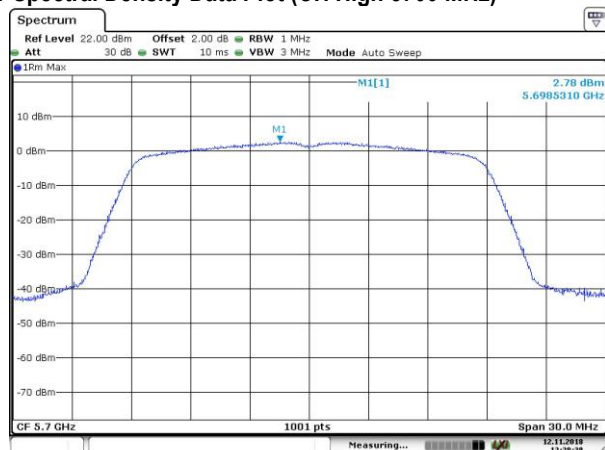
Date: 12.NOV.2018 12:22:32

Power Spectral Density Data Plot (CH Mid 5785 MHz)



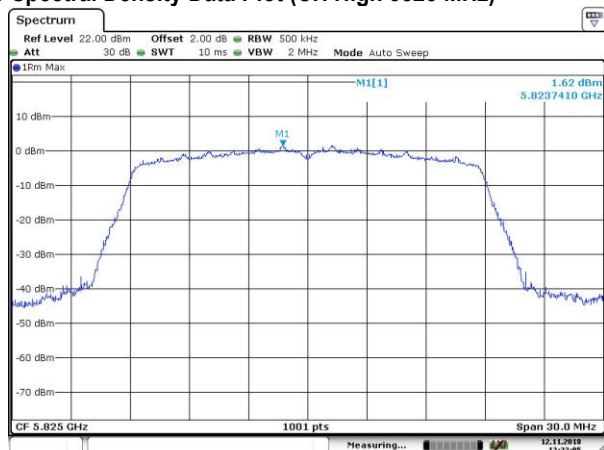
Date: 12.NOV.2018 12:31:46

Power Spectral Density Data Plot (CH High 5700 MHz)



Date: 12.NOV.2018 12:28:39

Power Spectral Density Data Plot (CH High 5825 MHz)



Date: 12.NOV.2018 12:32:05

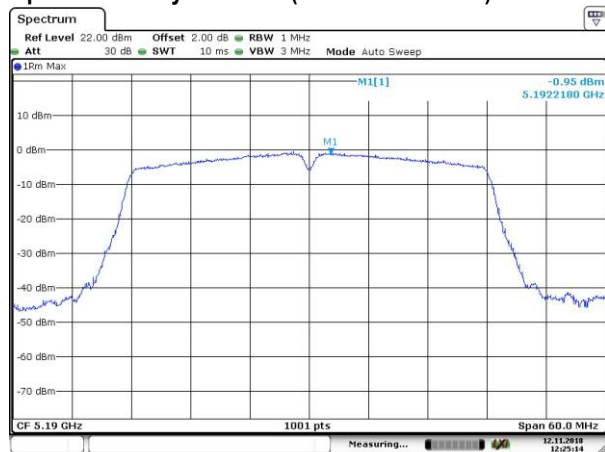
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802.11n HT40, 5150~5250 MHz

Power Spectral Density Data Plot (CH Low 5190 MHz)



Date: 12 NOV 2018 12:25:15

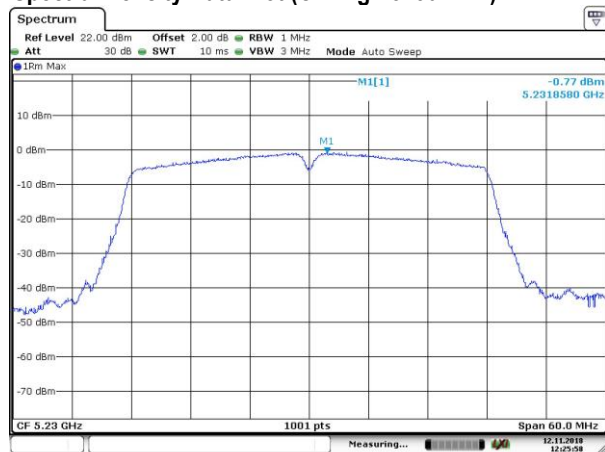
802.11n HT40, 5250~5350 MHz

Power Spectral Density Data Plot (CH Low 5270 MHz)



Date: 12 NOV 2018 12:26:19

Power Spectral Density Data Plot (CH High 5230 MHz)



Date: 12 NOV 2018 12:25:58

Power Spectral Density Data Plot (CH High 5310 MHz)



Date: 12 NOV 2018 12:26:39

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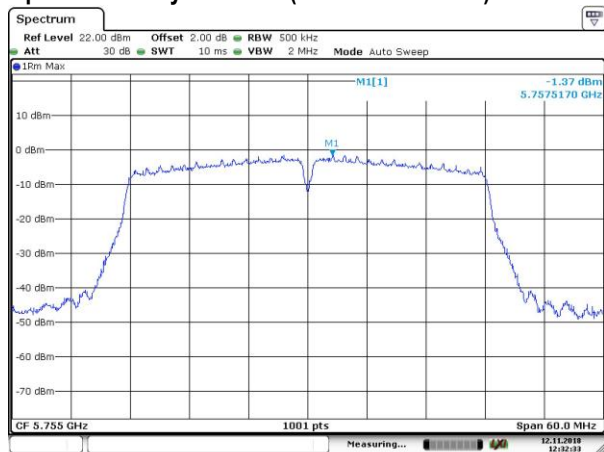
802.11n HT40, 5470~5725 MHz

Power Spectral Density Data Plot (CH Low 5510 MHz)

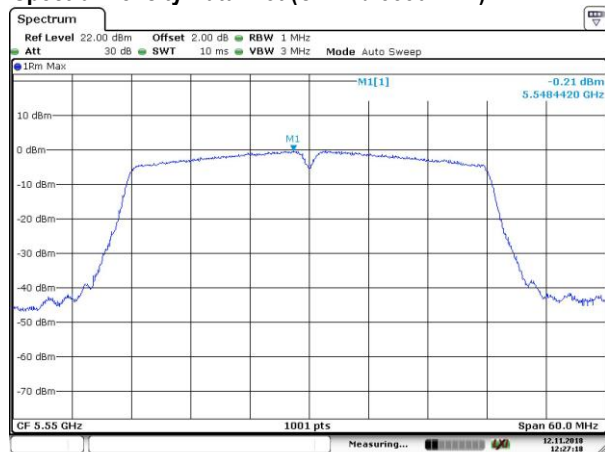


802.11n HT40, 5725~5850 MHz

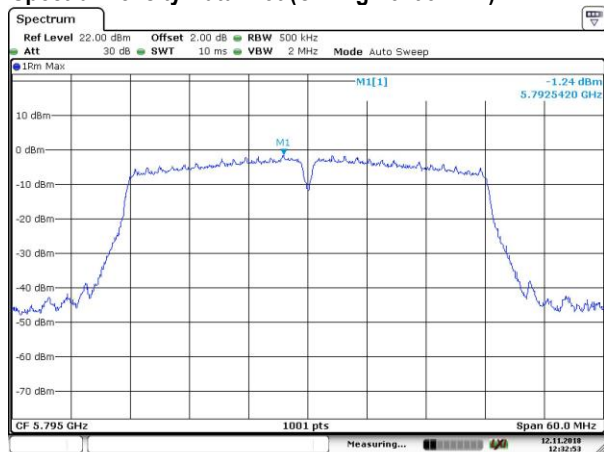
Power Spectral Density Data Plot (CH Low 5755 MHz)



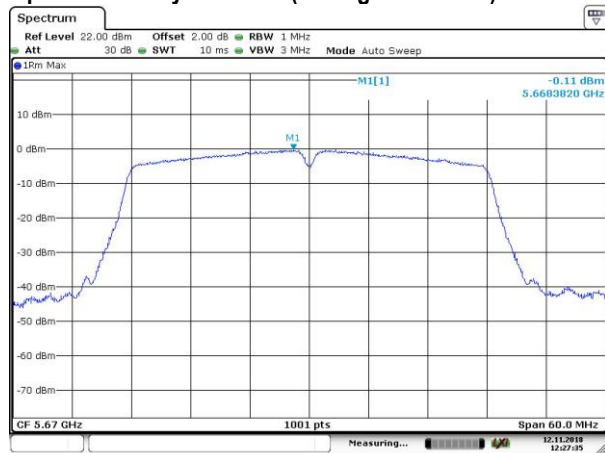
Power Spectral Density Data Plot (CH Mid 5550 MHz)



Power Spectral Density Data Plot (CH High 5795 MHz)



Power Spectral Density Data Plot (CH High 5670 MHz)



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11 UNDESIRABLE RADIATED EMISSION MEASUREMENT

11.1 Standard Applicable

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	LIMIT	
FCC KDB 789033 D02 General UNII Test Procedures New Rules	FIELD STRENGTH AT 3m	
	PK: 74 (dBμV/m)	AV 54 (dBμV/m)
APPLICABLE TO	EIRP LIMIT	FIELD STRENGTH AT 3m
15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.3 (dBμV/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)(i)	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.		

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

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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 (dBμV/m)

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11.2 Measurement Equipment Used

Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018/3/13	2021/3/12
Wideband Radio Communication Tester	Anristu	MT8821C	6.201E+09	2018/5/2	2019/5/1
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	W005-02	2018/3/13	2019/3/12
LNA Signal Analyzer (101Hz-26.5GHz)	Agilent Technologies Inc.	N9010A	SEM004-09	2018/4/13	2019/4/12
Spectrum Analyzer (20Hz-43GHz)	Rohde & Schwarz	FSU43	SEM004-08	2018/4/2	2019/4/1
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017/6/27	2020/6/26
Horn Antenna (800MHz-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/4/13	2021/4/12
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017/10/17	2020/10/16
Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2018/9/25	2019/9/24
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2018/9/27	2019/9/26
Pre-amplifier (26-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2018/4/2	2019/4/1
Band filter	N/A	N/A	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2018/7/12	2019/7/11
Tunable Notch Filter WRCD1700/2000-0.2/40-10EEK	WAINRIGHT Instruments GMBH	N/A	N/A	N/A	N/A
Tunable Notch Filter WRCD800/960-0.2/40-10EEK	WAINRIGHT Instruments GMBH	N/A	N/A	N/A	N/A
HighPass Filter WHK1.2/15G-10SS	WAINRIGHT Instruments GMBH	N/A	N/A	N/A	N/A
HighPass Filter WHKX10-2700-3000-18000-40SS	WAINRIGHT Instruments GMBH	N/A	N/A	N/A	N/A
HighPass Filter WHKX7.0/26.5G-6SS	WAINRIGHT Instruments GMBH	N/A	N/A	N/A	N/A
Band Reject Filter WRCG 824/849-814/859-40/8SS	WAINRIGHT Instruments GMBH	N/A	N/A	N/A	N/A
Band Reject Filter WRCG 1850/1910-1835/1925-40/8SS	WAINRIGHT Instruments GMBH	N/A	N/A	N/A	N/A
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018/3/31	2021/3/30
EMI Test Receiver (9kHz-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2018/4/2	2019/4/1
Trilog-Broadband Antenna(25MHz-2GHz)	Schwarzbeck	VULB9168	SEM003-18	2016/6/29	2019/6/28
Pre-amplifier (9kHz-1GHz)	Sonoma Instrument	310N	SEM005-04	2018/4/13	2019/4/12
Loop Antenna (9kHz-30MHz)	ETS-Lindgren	6502	SEM003-08	2017/8/22	2020/8/21
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2018/7/12	2019/7/11

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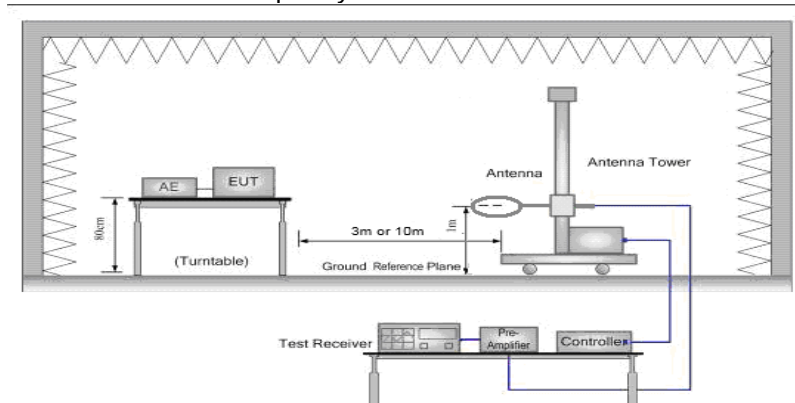
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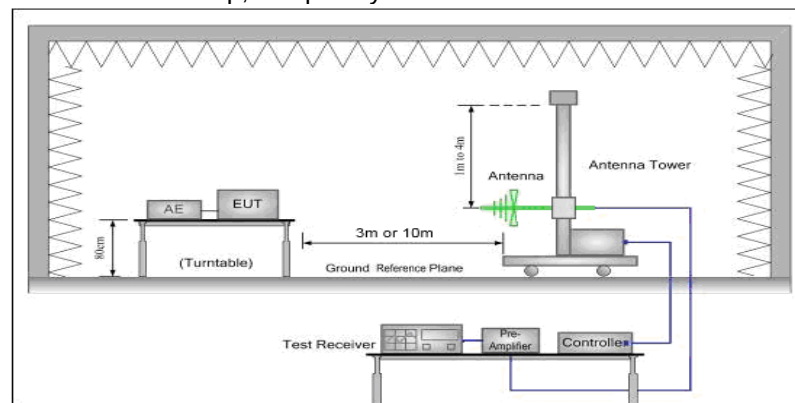
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11.3 Test SET-UP

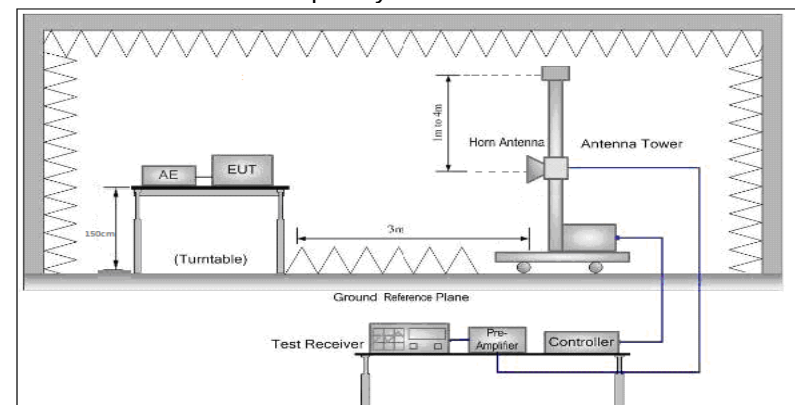
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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



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



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11.4 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
4. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
11. 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	

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) was not reported.

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11.7 Measurement Result

11.7.1 Radiated emission below 1GHz

The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

$$L_3 / L_{10} = D_{10} / D_3$$

Remark:

L₃: Level @ 3m distance. Unit: uV/m;

L₁₀: Level @ 10m distance. Unit: uV/m;

D₃: 3m distance. Unit: m

D₁₀: 10m distance. Unit: m

The level at 3m test distance is below:

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Over Limit (dB)	Ant. Polarization
47.49	14.7	5.43	18.11	25.16	40.00	-14.84	V
166.07	14.65	5.40	18.00	25.11	40.00	-14.89	V
290.02	14.81	5.50	18.34	25.27	43.50	-18.23	V
452.72	18.1	8.04	26.78	28.56	46.00	-17.44	V
638.37	23.61	15.15	50.51	34.07	46.00	-11.93	V
839.18	25.95	19.84	66.13	36.41	46.00	-9.59	V
40.7	13.57	4.77	15.90	24.03	40.00	-15.97	H
154.82	15.22	5.77	19.23	25.68	40.00	-14.32	H
283.98	14.12	5.08	16.94	24.58	43.50	-18.92	H
459.11	18.25	8.18	27.25	28.71	46.00	-17.29	H
654.23	23.15	14.37	47.90	33.61	46.00	-12.39	H
836.24	25.83	19.57	65.22	36.29	46.00	-9.71	H

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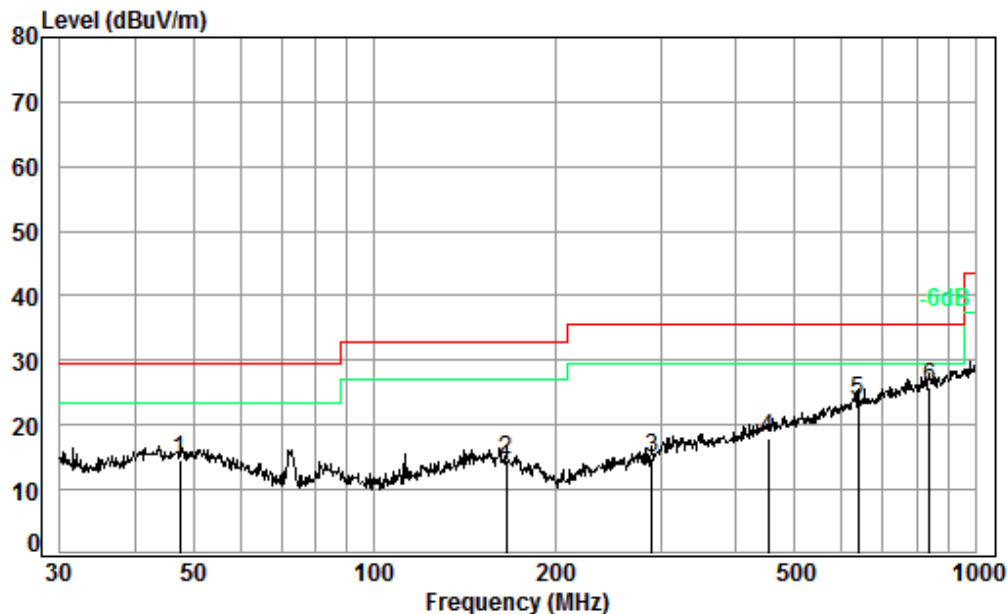
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30MHz~1GHz (QP)

Test mode:

Transmitting

Vertical



Condition: 10m VERTICAL

Job No. : 90027

Test Mode: e

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	47.49	6.89	12.84	32.45	27.42	14.70	29.50	-14.80
2	166.07	7.50	12.79	32.42	26.78	14.65	33.00	-18.35
3	290.02	7.98	12.41	32.36	26.78	14.81	35.60	-20.79
4	452.72	8.47	16.21	32.35	25.77	18.10	35.60	-17.50
5	638.37	8.96	19.39	32.35	27.61	23.61	35.60	-11.99
6 pp	839.18	9.37	21.52	31.93	26.99	25.95	35.60	-9.65

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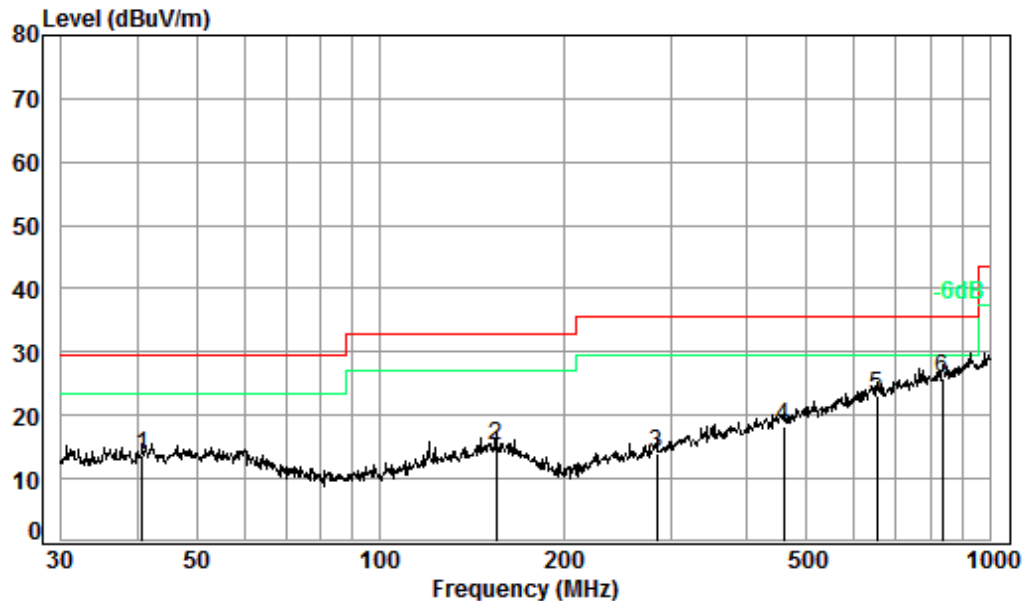
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Test mode:	Transmitting	Horizontal
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Condition: 10m HORIZONTAL

Job No. : 90027

Test Mode: e

	Freq	Cable	Ant	Preamp	Read	Limit	Over
	MHz	Loss	Factor	Factor	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	40.70	6.83	13.26	32.46	25.94	13.57	29.50 -15.93
2	154.82	7.46	13.40	32.43	26.79	15.22	33.00 -17.78
3	283.98	7.96	12.26	32.37	26.27	14.12	35.60 -21.48
4	459.11	8.49	16.28	32.35	25.83	18.25	35.60 -17.35
5	654.23	8.99	19.59	32.34	26.91	23.15	35.60 -12.45
6 pp	836.24	9.37	21.50	31.95	26.91	25.83	35.60 -9.77

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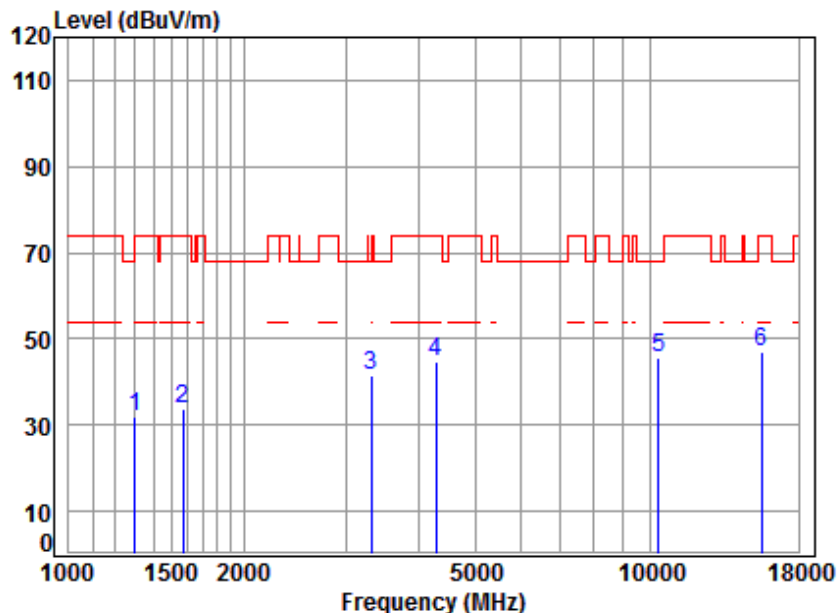
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11.7.2 Transmitter emission above 1GHz

11.7.2.1 11A20_36 ANT 1_Peak_Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 90027
Mode : 5180 TX RSE
Note : 5G WIFI 11A

	Freq	Cable	Ant	Preamp	Read		Limit	Over	
	MHz	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	4.80	25.03	41.26	43.59	32.16	74.00	-41.84	peak
2	1574.265	5.38	26.14	41.45	43.91	33.98	74.00	-40.02	peak
3	3318.471	6.29	31.42	42.18	45.77	41.30	68.20	-26.90	peak
4	4291.977	7.33	33.24	42.38	46.58	44.77	74.00	-29.23	peak
5	10360.000	11.19	37.76	37.45	34.02	45.52	68.20	-22.68	peak
6	15540.000	14.30	40.72	39.00	30.90	46.92	74.00	-27.08	peak

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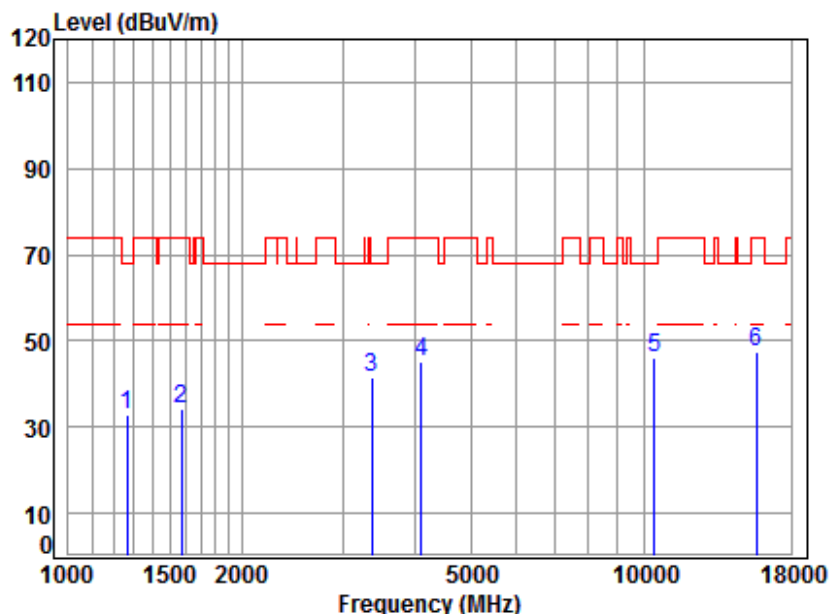
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11.7.2.2 11A20_44 ANT 1_Peak_Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No : 90027
 Mode : 5220 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1267.454	4.68	24.89	41.24	44.44	32.77	68.20	-35.43	peak
2	1574.265	5.38	26.14	41.45	44.21	34.28	74.00	-39.72	peak
3	3366.778	6.34	31.50	42.19	46.07	41.72	68.20	-26.48	peak
4	4109.872	7.11	32.91	42.35	47.52	45.19	74.00	-28.81	peak
5	10440.000	11.25	37.72	37.51	34.70	46.16	68.20	-22.04	peak
6	15660.000	14.48	40.80	39.11	31.25	47.42	74.00	-26.58	peak

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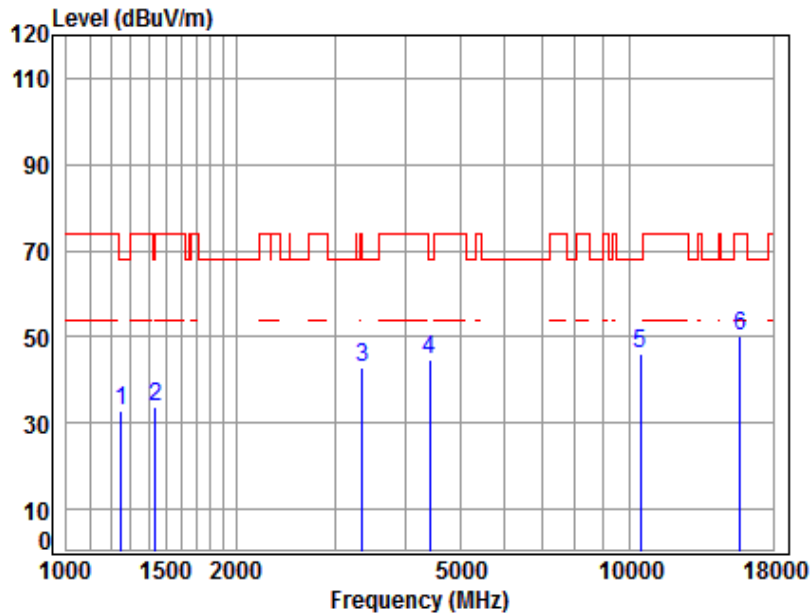
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11.7.2.3 11A20_48 ANT 1_Peak_Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No : 90027
 Mode : 5240 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.269	4.61	24.81	41.22	44.61	32.81	68.20	-35.39	peak
2	1439.343	5.28	25.58	41.36	44.19	33.69	74.00	-40.31	peak
3	3357.061	6.33	31.48	42.19	47.45	43.07	74.00	-30.93	peak
4	4417.841	7.47	33.46	42.40	46.13	44.66	68.20	-23.54	peak
5	10480.000	11.28	37.71	37.53	34.46	45.92	68.20	-22.28	peak
6	15720.000	14.57	40.83	39.17	33.93	50.16	74.00	-23.84	peak

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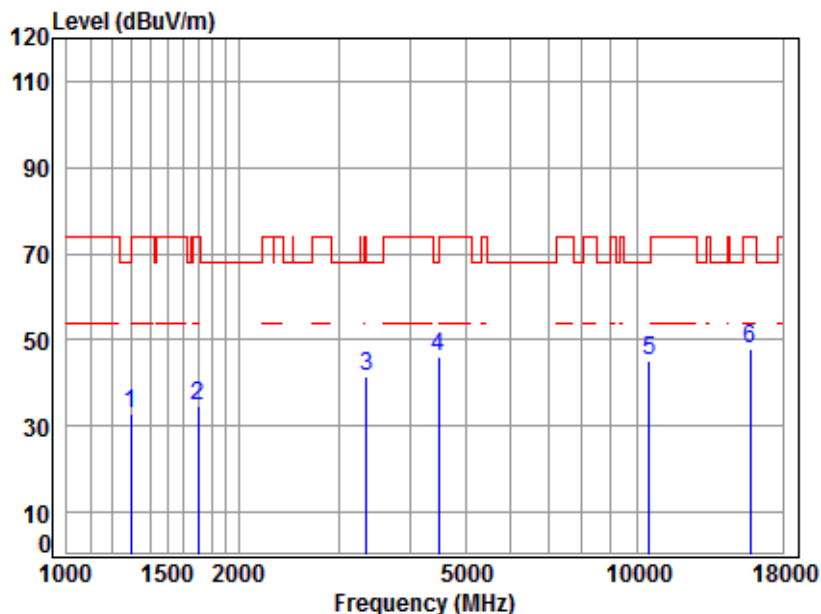
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11.7.2.4 11A20_52 ANT 1_Peak_Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No : 90027
 Mode : 5260 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1297.103	4.79	25.01	41.26	44.26	32.80	68.20	-35.40	peak
2	1702.042	5.23	26.68	41.53	44.37	34.75	74.00	-39.25	peak
3	3357.061	6.33	31.48	42.19	45.76	41.38	74.00	-32.62	peak
4	4495.125	7.55	33.59	42.42	47.31	46.03	68.20	-22.17	peak
5	10520.000	11.30	37.70	37.56	33.85	45.29	68.20	-22.91	peak
6	15780.000	14.66	40.87	39.22	31.60	47.91	74.00	-26.09	peak

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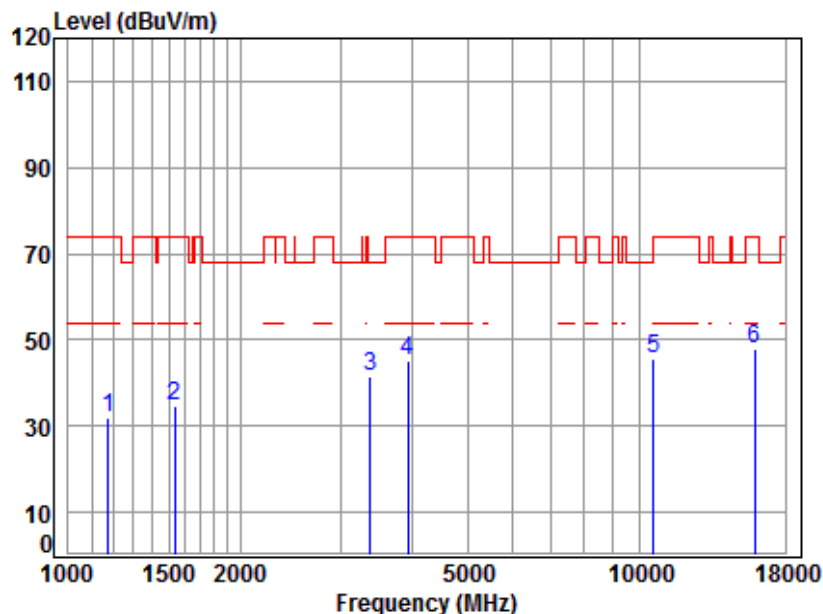
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11.7.2.5 11A20_60 ANT 1_Peak_Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No : 90027
 Mode : 5300 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1175.697	4.32	24.48	41.16	44.09	31.73	74.00	-42.27	peak
2	1538.281	5.43	25.98	41.43	44.53	34.51	74.00	-39.49	peak
3	3376.523	6.35	31.51	42.19	45.96	41.63	68.20	-26.57	peak
4	3935.493	6.92	32.58	42.31	47.89	45.08	74.00	-28.92	peak
5	10600.000	11.36	37.72	37.62	34.24	45.70	68.20	-22.50	peak
6	15900.000	14.84	40.94	39.33	31.49	47.94	74.00	-26.06	peak

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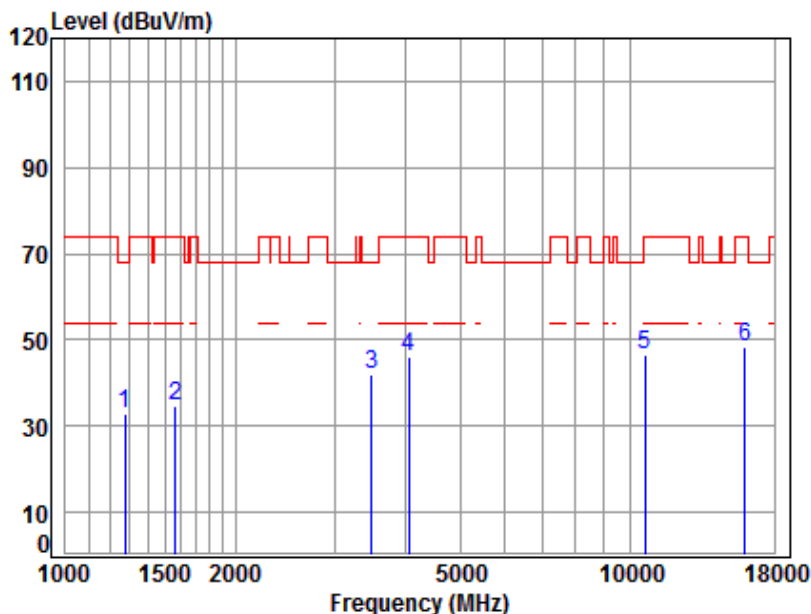
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11.7.2.6 11A20_64 ANT 1_Peak_Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No : 90027
 Mode : 5320 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1274.802	4.71	24.92	41.24	44.26	32.65	68.20	-35.55	peak
2	1569.721	5.39	26.12	41.45	44.48	34.54	74.00	-39.46	peak
3	3485.601	6.45	31.68	42.22	46.05	41.96	68.20	-26.24	peak
4	4062.629	7.06	32.82	42.34	48.33	45.87	74.00	-28.13	peak
5	10640.000	11.39	37.73	37.64	34.90	46.38	74.00	-27.62	peak
6	15960.000	14.93	40.98	39.38	31.89	48.42	74.00	-25.58	peak

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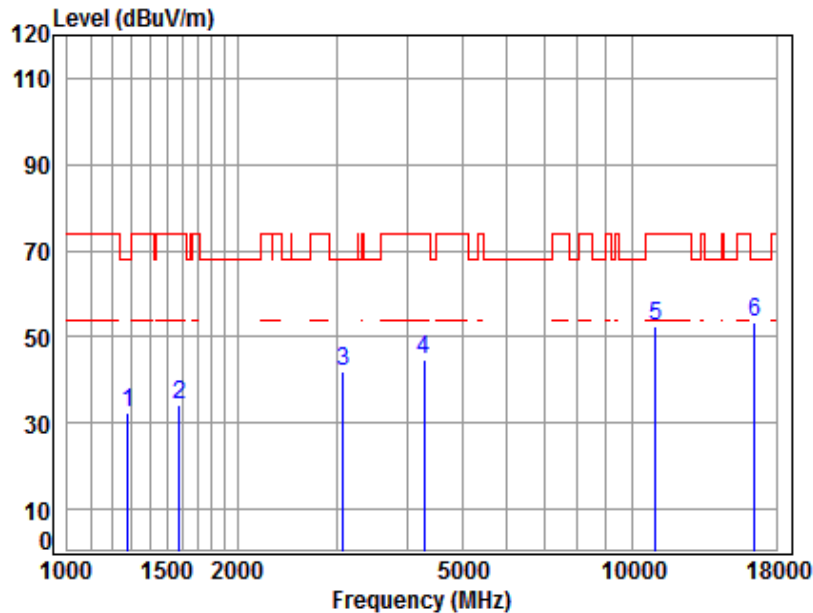
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11.7.2.7 11A20_100 ANT 1_Peak_Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 90027
Mode : 5500 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1278.492	4.72	24.93	41.25	44.20	32.60	68.20	-35.60	peak
2	1578.822	5.38	26.16	41.46	44.29	34.37	74.00	-39.63	peak
3	3078.229	6.06	31.03	42.12	47.11	42.08	68.20	-26.12	peak
4	4291.977	7.33	33.24	42.38	46.38	44.57	74.00	-29.43	peak
5	11000.000	11.63	37.80	37.88	41.04	52.59	74.00	-21.41	peak
6	16500.000	14.50	42.20	39.86	36.37	53.21	68.20	-14.99	peak

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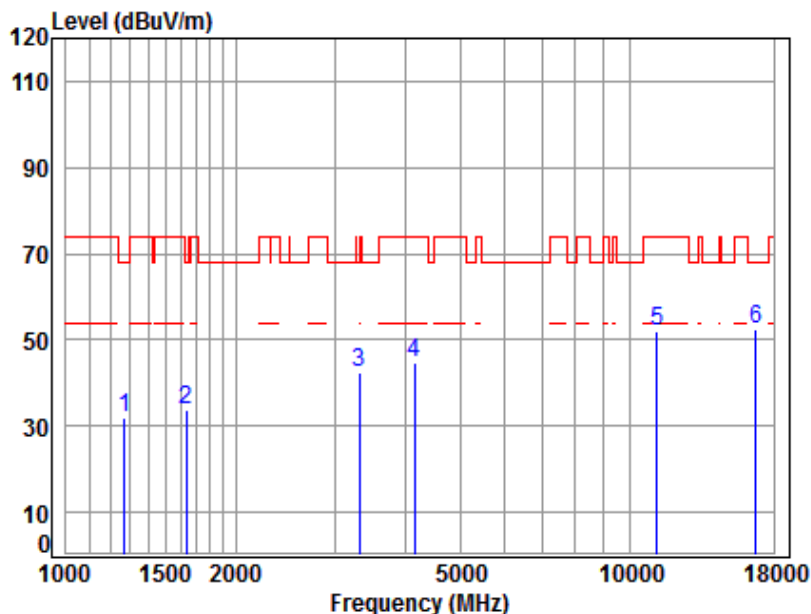
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11.7.2.8 11A20_116 ANT 1_Peak_Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No : 90027
 Mode : 5580 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1271.123	4.69	24.90	41.24	43.50	31.85	68.20	-36.35	peak
2	1634.543	5.31	26.40	41.49	43.74	33.96	68.20	-34.24	peak
3	3318.471	6.29	31.42	42.18	46.82	42.35	68.20	-25.85	peak
4	4157.664	7.17	33.00	42.36	47.12	44.93	74.00	-29.07	peak
5	11160.000	11.80	37.83	37.98	40.48	52.13	74.00	-21.87	peak
6	16740.000	15.57	42.39	40.07	34.57	52.46	68.20	-15.74	peak

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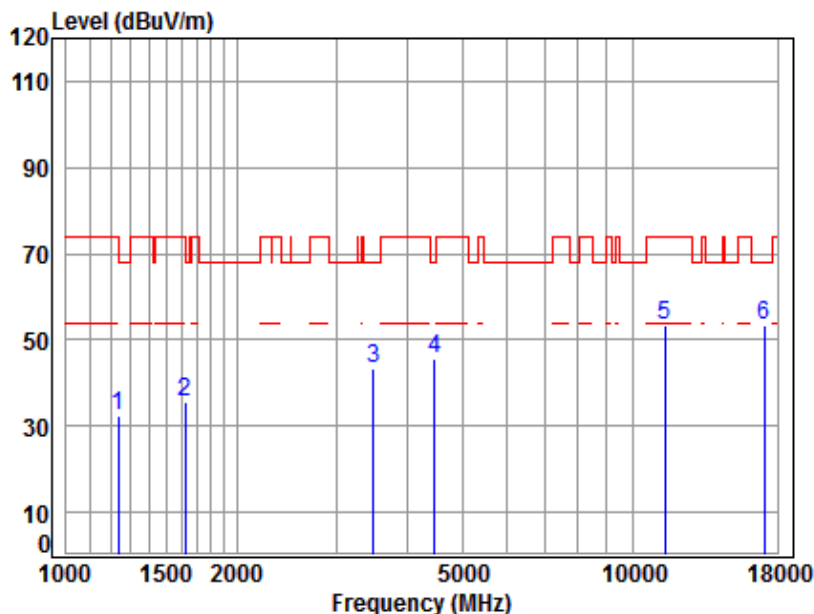
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11.7.2.9 11A20_140 ANT 1_Peak_Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 90027
Mode : 5700 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1234.909	4.55	24.74	41.21	44.29	32.37	74.00	-41.63	peak
2	1625.121	5.32	26.36	41.49	45.19	35.38	74.00	-38.62	peak
3	3485.601	6.45	31.68	42.22	47.34	43.25	68.20	-24.95	peak
4	4469.214	7.53	33.55	42.41	47.16	45.83	68.20	-22.37	peak
5	11400.000	12.04	37.88	38.13	41.50	53.29	74.00	-20.71	peak
6	17100.000	16.49	42.66	40.37	34.71	53.49	68.20	-14.71	peak

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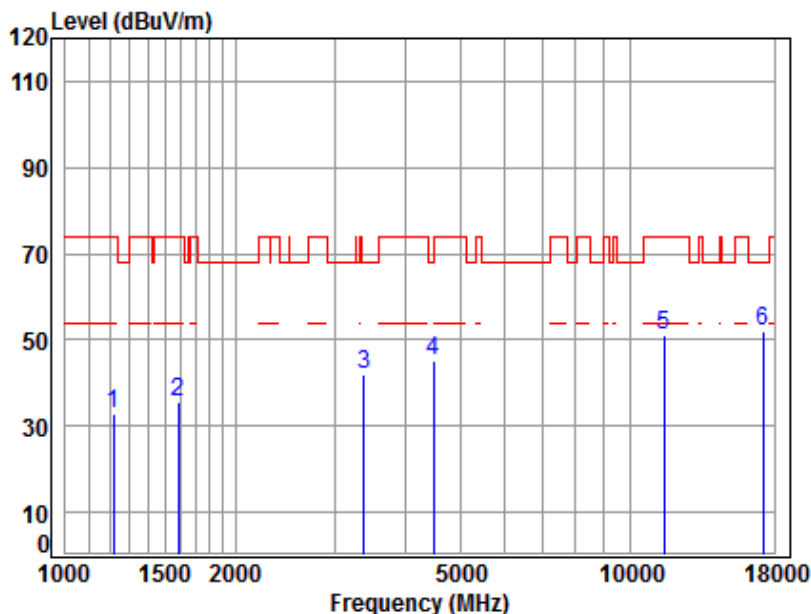
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11.7.2.10 11A20_149 ANT 1_Peak_Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No : 90027
 Mode : 5745 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1217.190	4.49	24.67	41.20	44.84	32.80	74.00	-41.20	peak
2	1583.392	5.37	26.18	41.46	45.43	35.52	74.00	-38.48	peak
3	3376.523	6.35	31.51	42.19	46.42	42.09	68.20	-26.11	peak
4	4495.125	7.55	33.59	42.42	46.38	45.10	68.20	-23.10	peak
5	11490.000	12.13	37.90	38.19	39.47	51.31	74.00	-22.69	peak
6	17235.000	16.18	42.74	40.48	33.67	52.11	68.20	-16.09	peak

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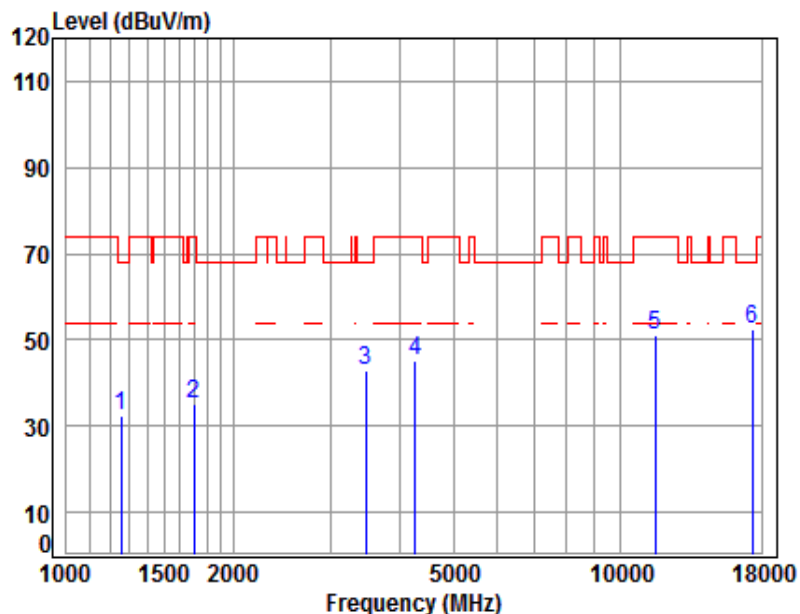
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11.7.2.11 11A20_157 ANT 1_Peak_Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No : 90027
 Mode : 5785 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1256.512	4.64	24.84	41.23	44.35	32.60	68.20	-35.60	peak
2	1702.042	5.23	26.68	41.53	44.66	35.04	74.00	-38.96	peak
3	3475.541	6.44	31.66	42.22	46.79	42.67	68.20	-25.53	peak
4	4267.237	7.30	33.19	42.38	47.13	45.24	74.00	-28.76	peak
5	11570.000	12.17	37.87	38.24	39.26	51.06	74.00	-22.94	peak
6	17355.000	15.92	42.81	40.58	34.45	52.60	68.20	-15.60	peak

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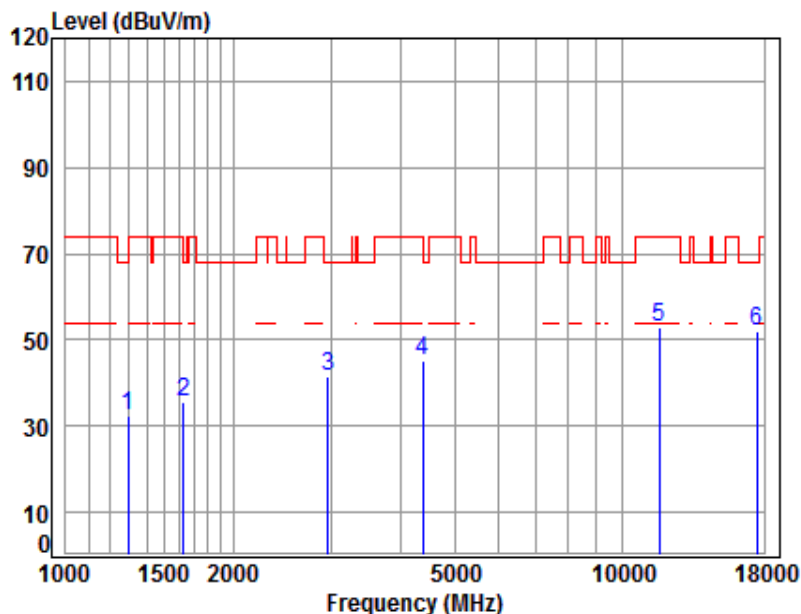
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11.7.2.12 11A20_165 ANT 1_Peak_Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No : 90027
 Mode : 5825 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1297.103	4.79	25.01	41.26	43.98	32.52	68.20	-35.68	peak
2	1629.825	5.31	26.38	41.49	45.54	35.74	68.20	-32.46	peak
3	2964.712	5.96	30.76	42.09	46.72	41.35	68.20	-26.85	peak
4	4379.699	7.43	33.39	42.40	46.96	45.38	74.00	-28.62	peak
5	11650.000	12.20	37.84	38.29	41.04	52.79	74.00	-21.21	peak
6	17475.000	15.65	42.89	40.68	34.37	52.23	68.20	-15.97	peak

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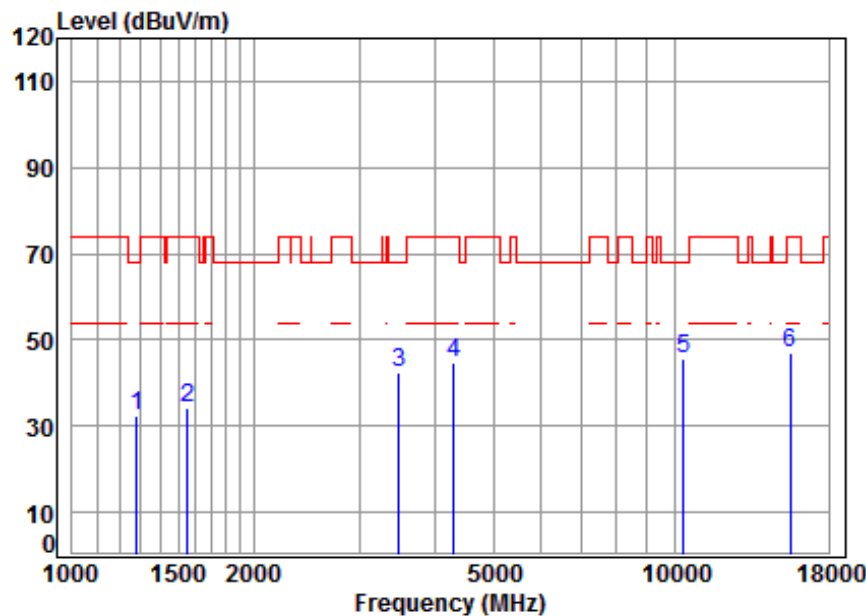
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11.7.2.13 11A20_36 ANT 1_Peak_Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 90027
 Mode : 5180 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1282.193	4.73	24.95	41.25	44.09	32.52	68.20	-35.68	peak
2	1551.677	5.41	26.04	41.44	44.32	34.33	74.00	-39.67	peak
3	3485.601	6.45	31.68	42.22	46.30	42.21	68.20	-25.99	peak
4	4304.400	7.34	33.26	42.38	46.70	44.92	74.00	-29.08	peak
5	10360.000	11.19	37.76	37.45	34.25	45.75	68.20	-22.45	peak
6	15540.000	14.30	40.72	39.00	31.18	47.20	74.00	-26.80	peak

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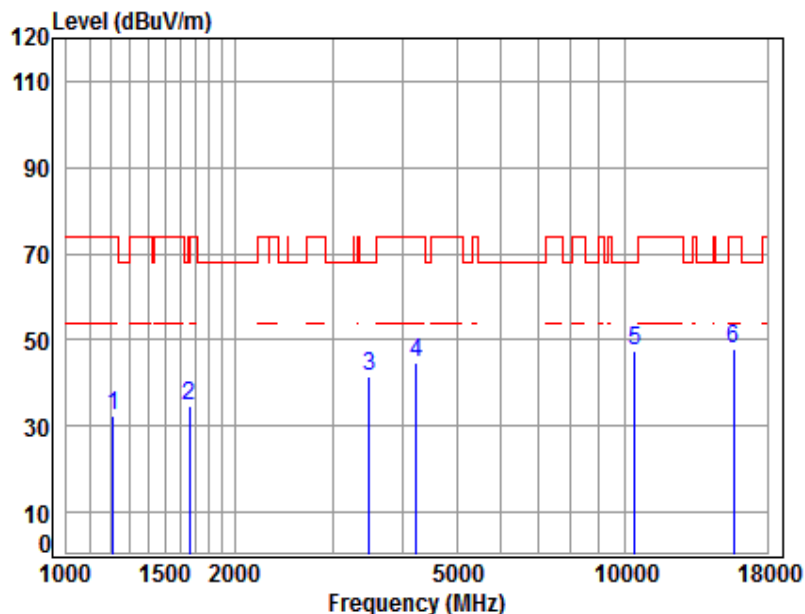
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11.7.2.14 11A20_44 ANT 1_Peak_Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 90027
Mode : 5220 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1213.677	4.47	24.65	41.19	44.53	32.46	74.00	-41.54	peak
2	1658.337	5.28	26.50	41.51	44.37	34.64	68.20	-33.56	peak
3	3485.601	6.45	31.68	42.22	45.74	41.65	68.20	-26.55	peak
4	4230.396	7.26	33.13	42.37	46.79	44.81	74.00	-29.19	peak
5	10440.000	11.25	37.72	37.51	36.16	47.62	68.20	-20.58	peak
6	15660.000	14.48	40.80	39.11	31.59	47.76	74.00	-26.24	peak

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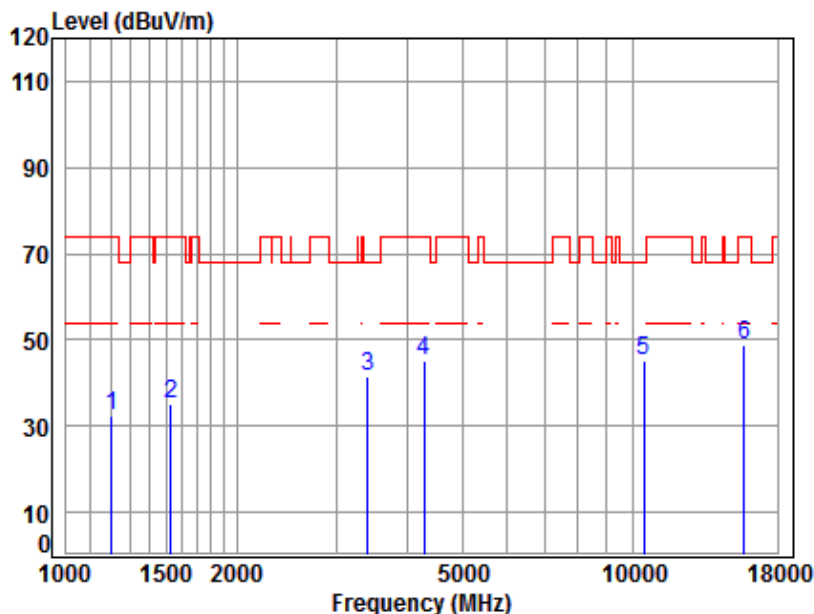
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11.7.2.15 11A20_48 ANT 1_Peak_Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 90027
 Mode : 5240 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1203.199	4.43	24.60	41.19	44.60	32.44	74.00	-41.56	peak
2	1529.414	5.44	25.94	41.43	45.08	35.03	74.00	-38.97	peak
3	3405.929	6.38	31.56	42.20	45.81	41.55	68.20	-26.65	peak
4	4279.589	7.31	33.22	42.38	46.97	45.12	74.00	-28.88	peak
5	10480.000	11.28	37.71	37.53	33.74	45.20	68.20	-23.00	peak
6	15720.000	14.57	40.83	39.17	32.45	48.68	74.00	-25.32	peak

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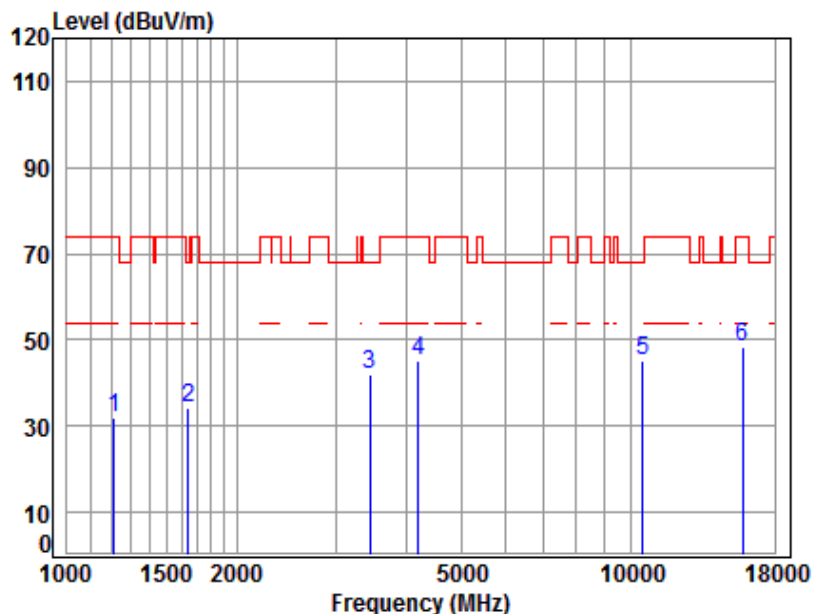
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11.7.2.16 11A20_52 ANT 1_Peak_Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 90027
 Mode : 5260 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1210.174	4.46	24.64	41.19	44.09	32.00	74.00	-42.00	peak
2	1639.274	5.30	26.42	41.49	44.18	34.41	68.20	-33.79	peak
3	3445.535	6.41	31.62	42.21	46.10	41.92	68.20	-26.28	peak
4	4206.011	7.23	33.08	42.36	47.13	45.08	74.00	-28.92	peak
5	10520.000	11.30	37.70	37.56	33.91	45.35	68.20	-22.85	peak
6	15780.000	14.66	40.87	39.22	32.18	48.49	74.00	-25.51	peak

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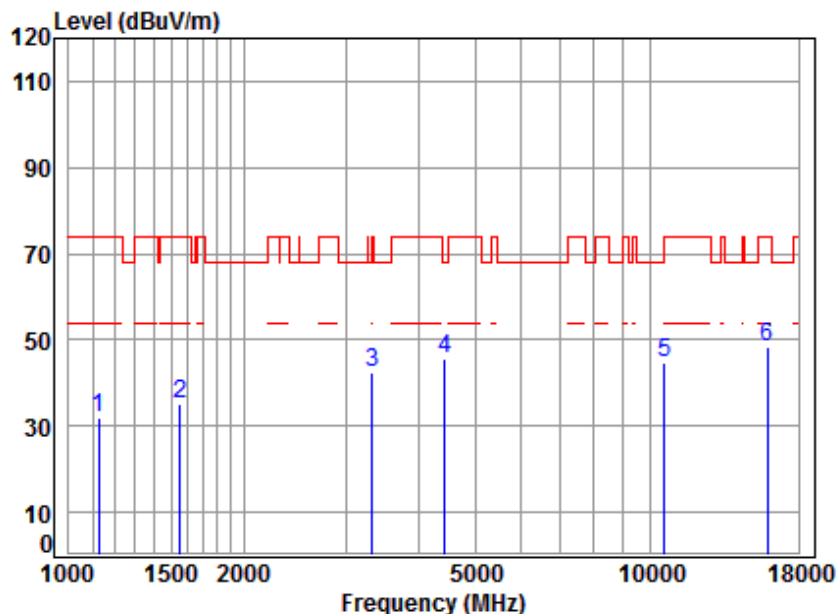
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11.7.2.17 11A20_60 ANT 1_Peak_Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 90027
 Mode : 5300 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1125.813	4.11	24.24	41.12	44.92	32.15	74.00	-41.85	peak
2	1551.677	5.41	26.04	41.44	45.34	35.35	74.00	-38.65	peak
3	3328.077	6.30	31.44	42.18	46.80	42.36	68.20	-25.84	peak
4	4430.628	7.48	33.48	42.41	47.02	45.57	68.20	-22.63	peak
5	10600.000	11.36	37.72	37.62	33.44	44.90	68.20	-23.30	peak
6	15900.000	14.84	40.94	39.33	31.73	48.18	74.00	-25.82	peak

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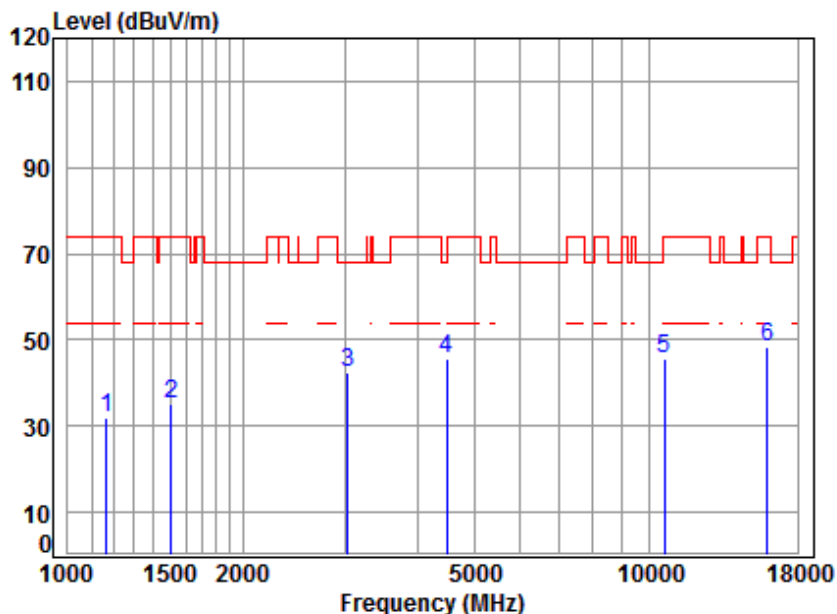
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11.7.2.18 11A20_64 ANT 1_Peak_Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 90027
Mode : 5320 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1165.546	4.28	24.43	41.15	44.56	32.12	74.00	-41.88	peak
2	1507.470	5.47	25.83	41.41	45.06	34.95	74.00	-39.05	peak
3	3034.063	6.02	30.96	42.11	47.40	42.27	68.20	-25.93	peak
4	4482.150	7.54	33.57	42.41	46.77	45.47	68.20	-22.73	peak
5	10640.000	11.39	37.73	37.64	34.25	45.73	74.00	-28.27	peak
6	15960.000	14.93	40.98	39.38	31.90	48.43	74.00	-25.57	peak

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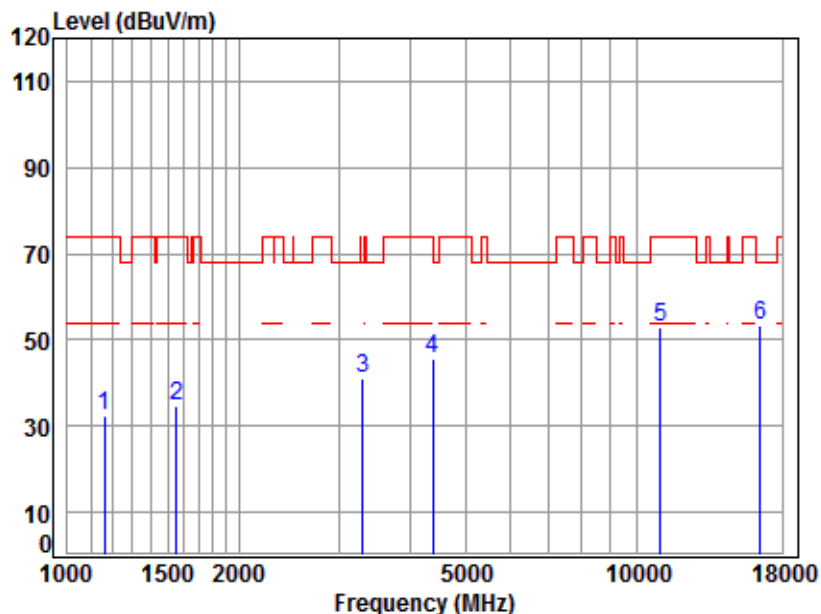
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11.7.2.19 11A20_100 ANT 1_Peak_Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 90027
 Mode : 5500 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1162.182	4.27	24.42	41.15	44.79	32.33	74.00	-41.67	peak
2	1551.677	5.41	26.04	41.44	44.88	34.89	74.00	-39.11	peak
3	3299.344	6.28	31.39	42.17	45.53	41.03	68.20	-27.17	peak
4	4392.376	7.44	33.42	42.40	47.19	45.65	74.00	-28.35	peak
5	11000.000	11.63	37.80	37.88	41.26	52.81	74.00	-21.19	peak
6	16500.000	14.50	42.20	39.86	36.41	53.25	68.20	-14.95	peak

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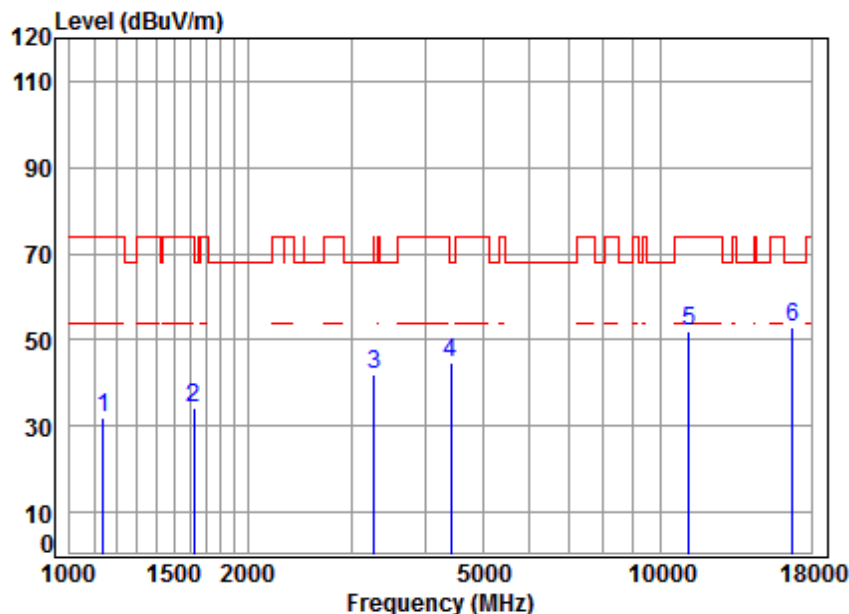
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11.7.2.20 11A20_116 ANT 1_Peak_Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 90027
 Mode : 5580 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1138.904	4.17	24.31	41.13	44.68	32.03	74.00	-41.97	peak
2	1625.121	5.32	26.36	41.49	44.24	34.43	74.00	-39.57	peak
3	3280.326	6.26	31.36	42.17	46.50	41.95	68.20	-26.25	peak
4	4417.841	7.47	33.46	42.40	46.26	44.79	68.20	-23.41	peak
5	11160.000	11.80	37.83	37.98	40.39	52.04	74.00	-21.96	peak
6	16740.000	15.57	42.39	40.07	35.16	53.05	68.20	-15.15	peak

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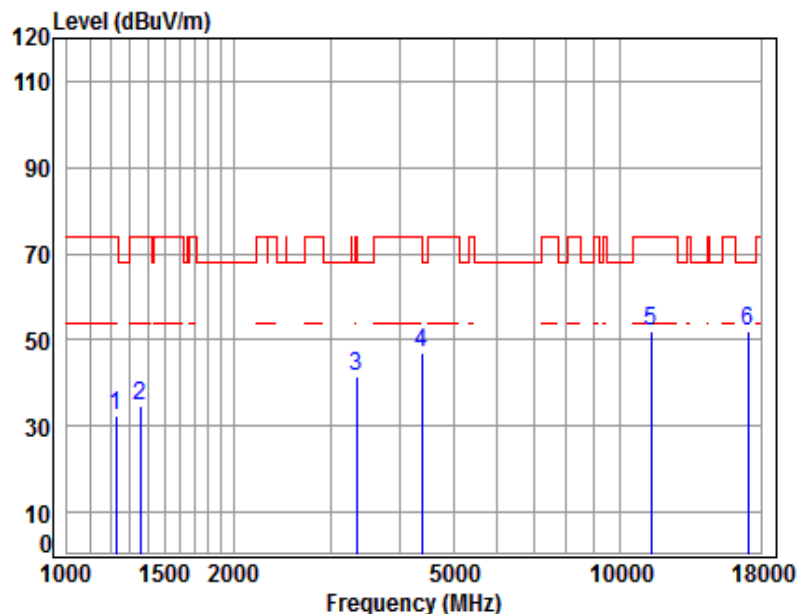
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11.7.2.21 11A20_140 ANT 1_Peak_Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 90027
 Mode : 5700 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1227.791	4.53	24.71	41.21	44.29	32.32	74.00	-41.68	peak
2	1358.498	5.01	25.26	41.31	45.59	34.55	74.00	-39.45	peak
3	3337.710	6.31	31.45	42.18	46.08	41.66	74.00	-32.34	peak
4	4392.376	7.44	33.42	42.40	48.67	47.13	74.00	-26.87	peak
5	11400.000	12.04	37.88	38.13	40.39	52.18	74.00	-21.82	peak
6	17100.000	16.49	42.66	40.37	33.41	52.19	68.20	-16.01	peak

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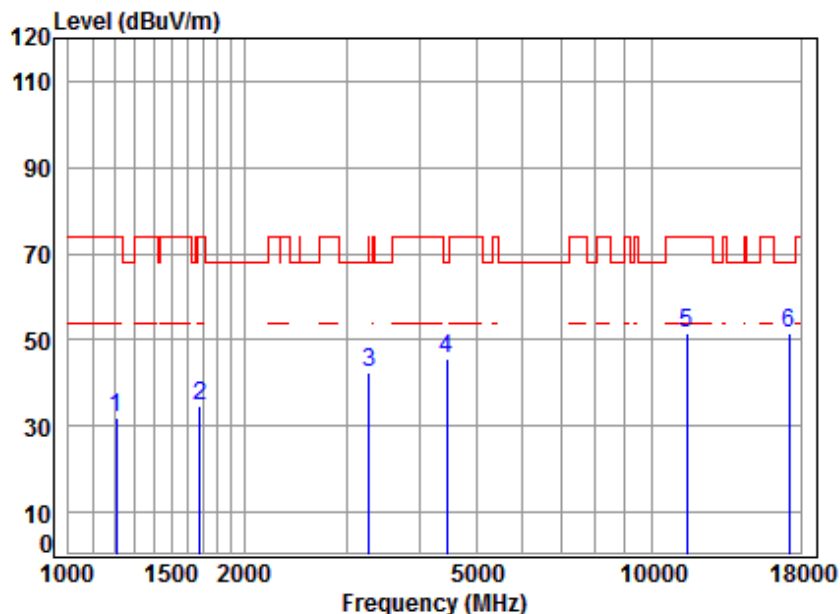
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11.7.2.22 11A20_149 ANT 1_Peak_Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 90027
Mode : 5745 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1206.682	4.44	24.62	41.19	43.94	31.81	74.00	-42.19	peak
2	1677.621	5.25	26.58	41.52	44.15	34.46	74.00	-39.54	peak
3	3270.858	6.25	31.35	42.17	46.79	42.22	68.20	-25.98	peak
4	4456.315	7.51	33.53	42.41	46.98	45.61	68.20	-22.59	peak
5	11490.000	12.13	37.90	38.19	39.92	51.76	74.00	-22.24	peak
6	17235.000	16.18	42.74	40.48	33.18	51.62	68.20	-16.58	peak

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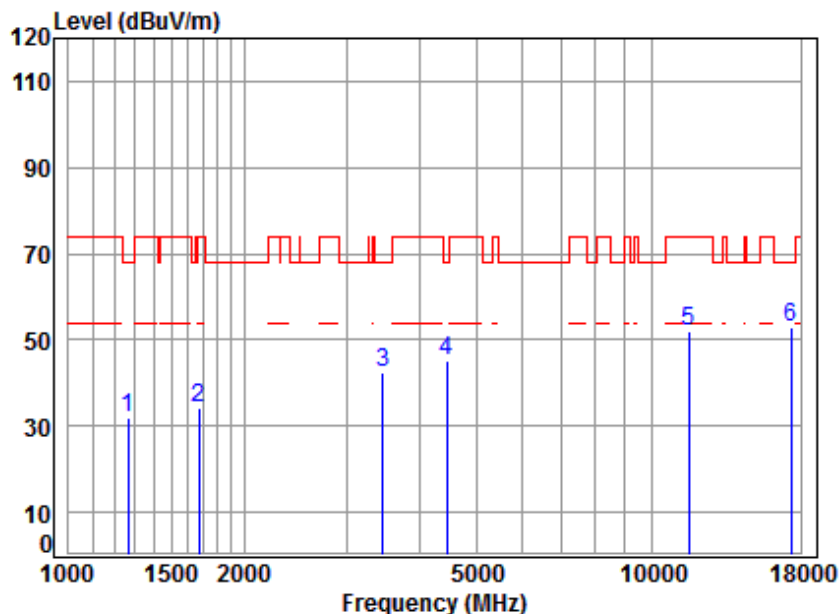
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11.7.2.23 11A20_157 ANT 1_Peak_Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 90027
 Mode : 5785 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1263.796	4.66	24.87	41.23	43.60	31.90	68.20	-36.30	peak
2	1672.779	5.26	26.56	41.52	43.71	34.01	74.00	-39.99	peak
3	3465.510	6.43	31.65	42.21	46.38	42.25	68.20	-25.95	peak
4	4456.315	7.51	33.53	42.41	46.35	44.98	68.20	-23.22	peak
5	11570.000	12.17	37.87	38.24	40.40	52.20	74.00	-21.80	peak
6	17355.000	15.92	42.81	40.58	34.59	52.74	68.20	-15.46	peak

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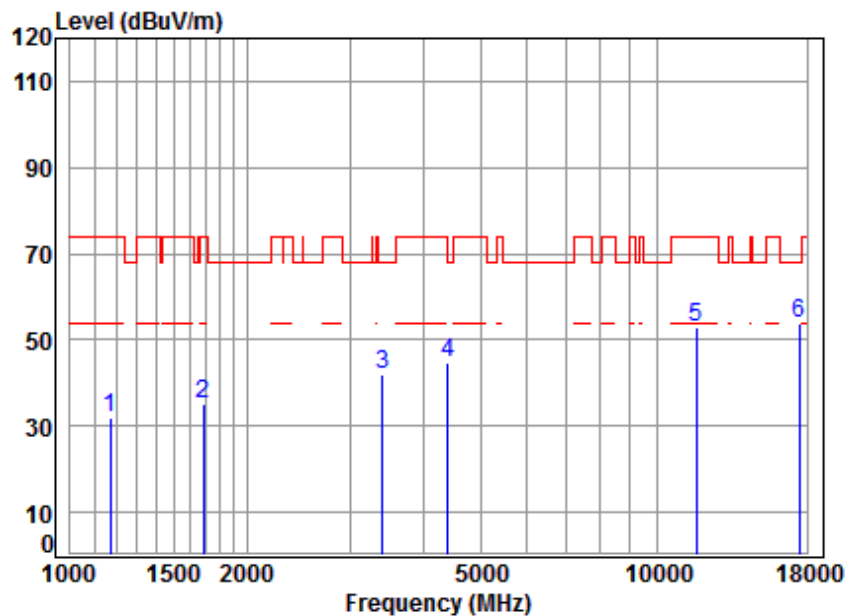
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11.7.2.24 11A20_165 ANT 1_Peak_Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 90027
 Mode : 5825 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1172.303	4.31	24.46	41.16	44.39	32.00	74.00	-42.00	peak
2	1687.347	5.24	26.62	41.52	44.57	34.91	74.00	-39.09	peak
3	3405.929	6.38	31.56	42.20	46.11	41.85	68.20	-26.35	peak
4	4405.090	7.46	33.44	42.40	46.44	44.94	68.20	-23.26	peak
5	11650.000	12.20	37.84	38.29	41.17	52.92	74.00	-21.08	peak
6	17475.000	15.65	42.89	40.68	36.13	53.99	68.20	-14.21	peak

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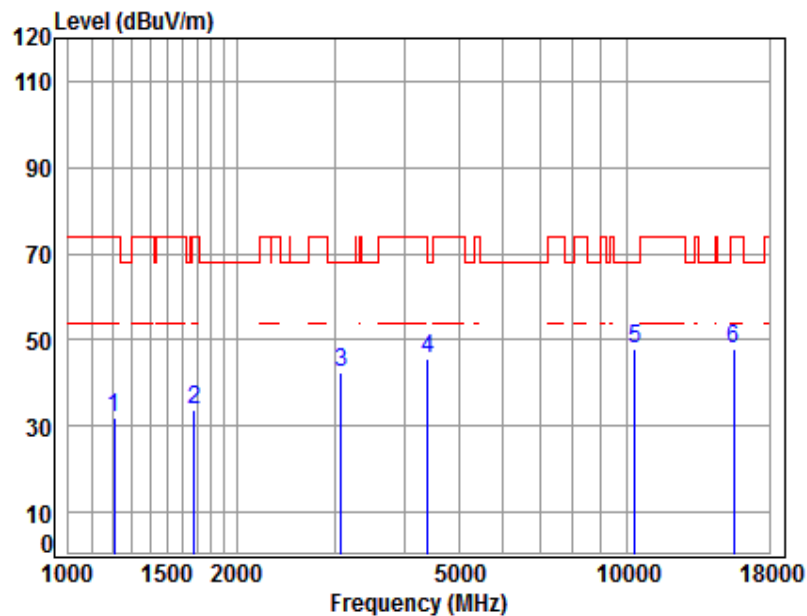
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11.7.2.25 11N20_36 ANT 1_Peak_Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No : 90027
 Mode : 5180 TX RSE
 Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1206.682	4.44	24.62	41.19	43.97	31.84	74.00	-42.16	peak
2	1677.621	5.25	26.58	41.52	43.45	33.76	74.00	-40.24	peak
3	3078.229	6.06	31.03	42.12	47.30	42.27	68.20	-25.93	peak
4	4405.090	7.46	33.44	42.40	47.27	45.77	68.20	-22.43	peak
5	10360.000	11.19	37.76	37.45	36.24	47.74	68.20	-20.46	peak
6	15540.000	14.30	40.72	39.00	31.94	47.96	74.00	-26.04	peak

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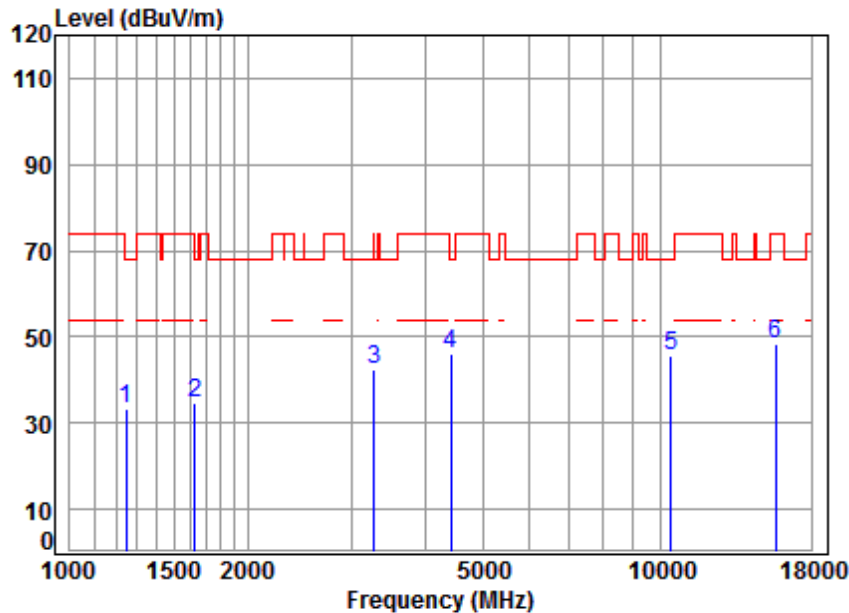
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11.7.2.26 11N20_44 ANT 1_Peak_Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 90027
Mode : 5220 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1245.663	4.60	24.79	41.22	45.00	33.17	68.20	-35.03	peak
2	1629.825	5.31	26.38	41.49	44.55	34.75	68.20	-33.45	peak
3	3280.326	6.26	31.36	42.17	46.98	42.43	68.20	-25.77	peak
4	4417.841	7.47	33.46	42.40	47.45	45.98	68.20	-22.22	peak
5	10440.000	11.25	37.72	37.51	34.10	45.56	68.20	-22.64	peak
6	15660.000	14.48	40.80	39.11	32.11	48.28	74.00	-25.72	peak

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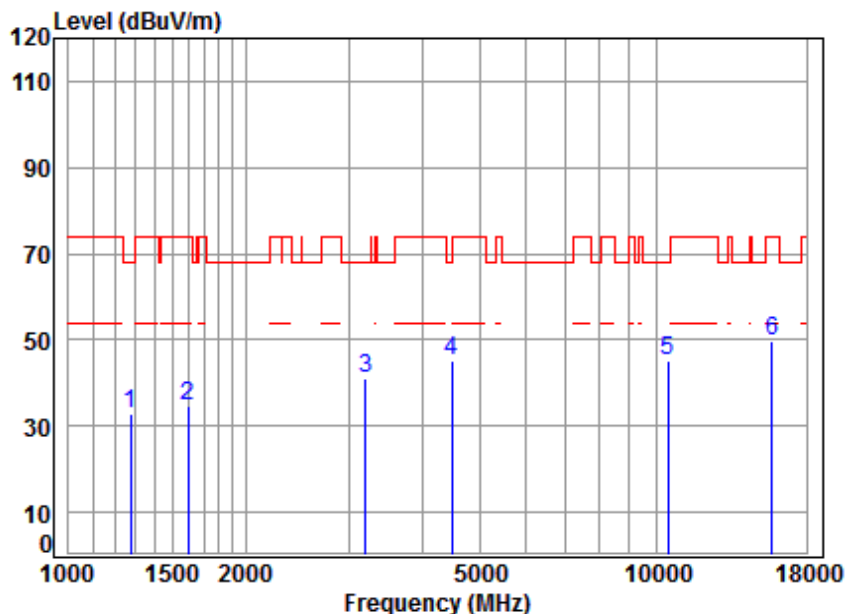
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11.7.2.27 11N20_48 ANT 1_Peak_Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No : 90027
 Mode : 5240 TX RSE
 Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1274.802	4.71	24.92	41.24	44.31	32.70	68.20	-35.50	peak
2	1597.181	5.35	26.24	41.47	44.50	34.62	74.00	-39.38	peak
3	3205.345	6.19	31.24	42.15	46.00	41.28	68.20	-26.92	peak
4	4482.150	7.54	33.57	42.41	46.36	45.06	68.20	-23.14	peak
5	10480.000	11.28	37.71	37.53	33.67	45.13	68.20	-23.07	peak
6	15720.000	14.57	40.83	39.17	33.58	49.81	74.00	-24.19	peak

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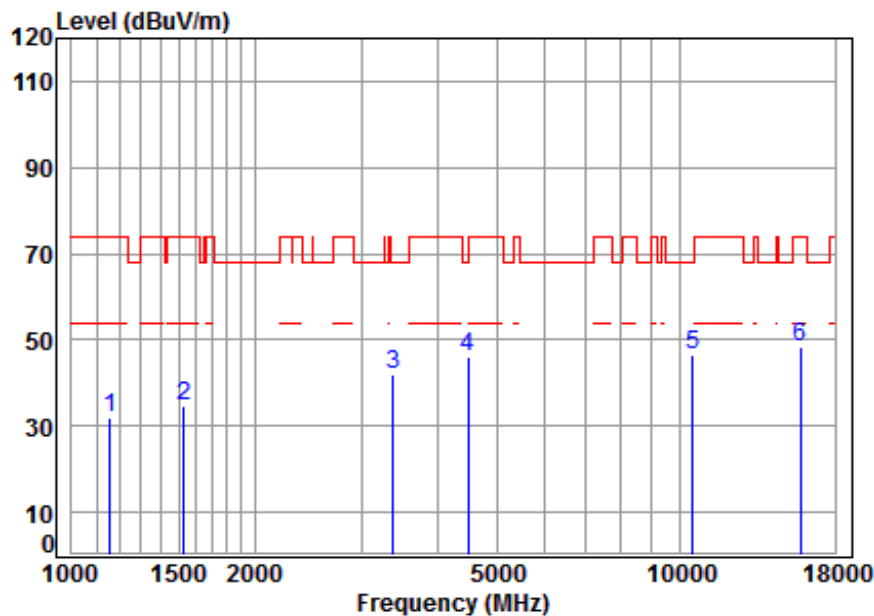
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11.7.2.28 11N20_52 ANT 1_Peak_Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No : 90027
 Mode : 5260 TX RSE
 Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1158.828	4.25	24.40	41.15	44.47	31.97	74.00	-42.03	peak
2	1529.414	5.44	25.94	41.43	44.55	34.50	74.00	-39.50	peak
3	3376.523	6.35	31.51	42.19	46.31	41.98	68.20	-26.22	peak
4	4482.150	7.54	33.57	42.41	47.21	45.91	68.20	-22.29	peak
5	10520.000	11.30	37.70	37.56	35.22	46.66	68.20	-21.54	peak
6	15780.000	14.66	40.87	39.22	32.18	48.49	74.00	-25.51	peak

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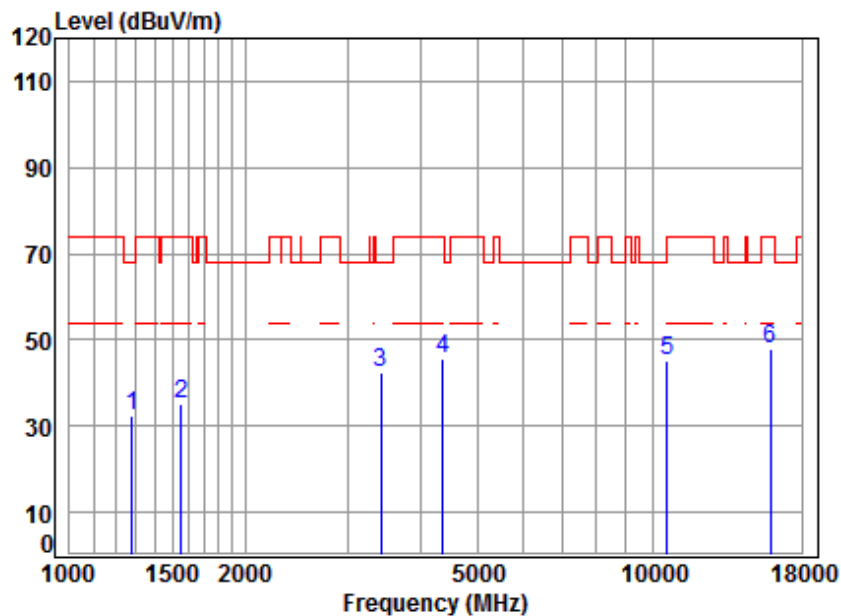
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11.7.2.29 11N20_60 ANT 1_Peak_Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 90027
Mode : 5300 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1282.193	4.73	24.95	41.25	44.06	32.49	68.20	-35.71	peak
2	1551.677	5.41	26.04	41.44	45.00	35.01	74.00	-38.99	peak
3	3415.787	6.38	31.57	42.20	46.52	42.27	68.20	-25.93	peak
4	4367.058	7.41	33.37	42.39	47.37	45.76	74.00	-28.24	peak
5	10600.000	11.36	37.72	37.62	33.89	45.35	68.20	-22.85	peak
6	15900.000	14.84	40.94	39.33	31.60	48.05	74.00	-25.95	peak

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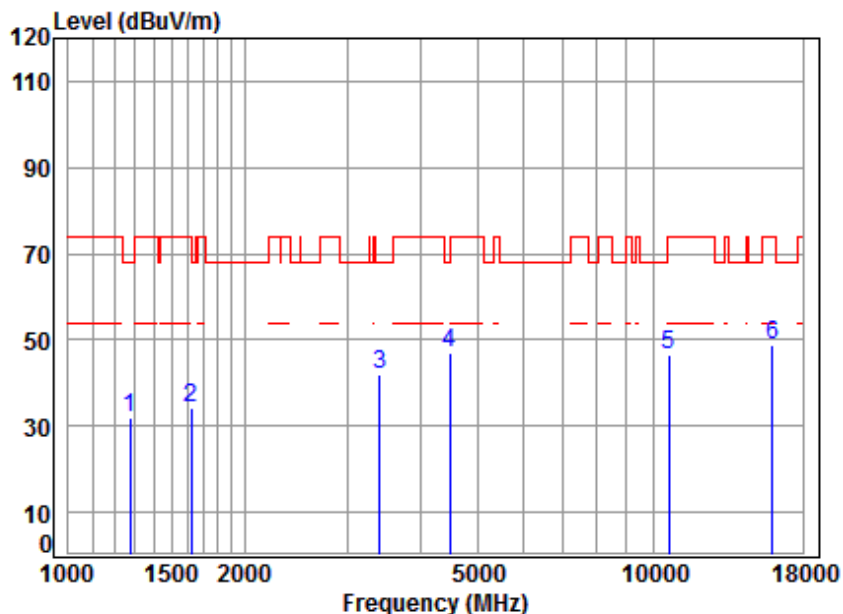
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11.7.2.30 11N20_64 ANT 1_Peak_Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No : 90027
 Mode : 5320 TX RSE
 Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1274.802	4.71	24.92	41.24	43.49	31.88	68.20	-36.32	peak
2	1620.431	5.32	26.34	41.48	44.19	34.37	74.00	-39.63	peak
3	3405.929	6.38	31.56	42.20	46.17	41.91	68.20	-26.29	peak
4	4482.150	7.54	33.57	42.41	48.42	47.12	68.20	-21.08	peak
5	10640.000	11.39	37.73	37.64	35.23	46.71	74.00	-27.29	peak
6	15960.000	14.93	40.98	39.38	32.22	48.75	74.00	-25.25	peak

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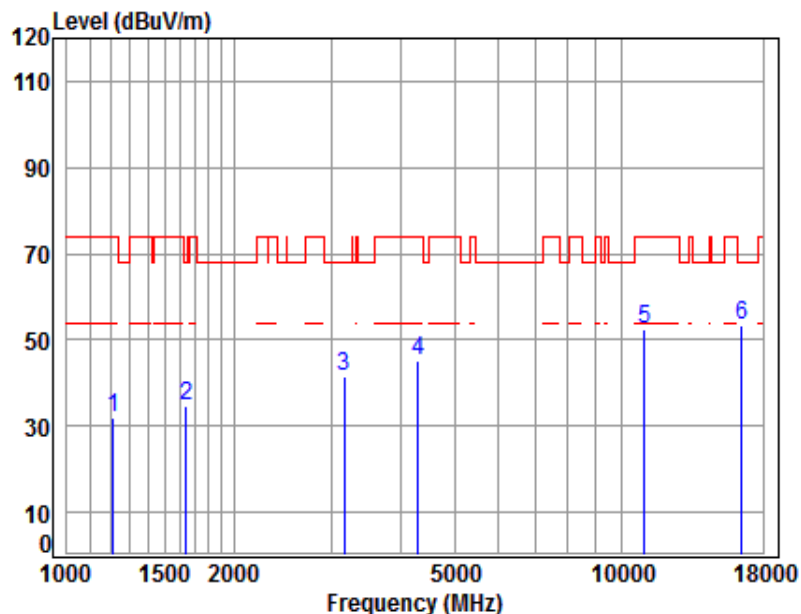
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11.7.2.31 11N20_100 ANT 1_Peak_Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 90027

Mode : 5500 TX RSE

Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1210.174	4.46	24.64	41.19	44.16	32.07	74.00	-41.93	peak
2	1644.019	5.30	26.44	41.50	44.61	34.85	68.20	-33.35	peak
3	3159.355	6.14	31.17	42.14	46.38	41.55	68.20	-26.65	peak
4	4304.400	7.34	33.26	42.38	46.90	45.12	74.00	-28.88	peak
5	11000.000	11.63	37.80	37.88	40.70	52.25	74.00	-21.75	peak
6	16500.000	14.50	42.20	39.86	36.35	53.19	68.20	-15.01	peak

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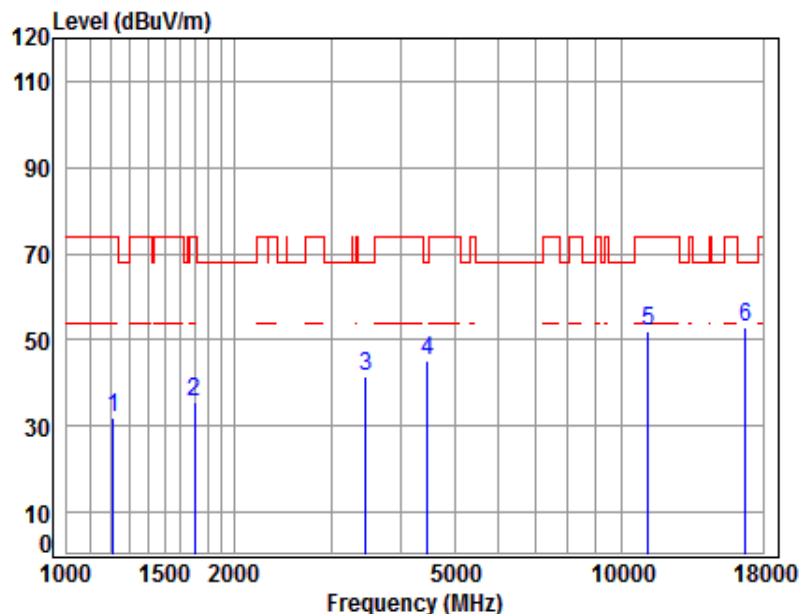
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11.7.2.32 11N20_116 ANT 1_Peak_Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 90027

Mode : 5580 TX RSE

Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1213.677	4.47	24.65	41.19	43.79	31.72	74.00	-42.28	peak
2	1697.129	5.23	26.66	41.53	45.27	35.63	74.00	-38.37	peak
3	3465.510	6.43	31.65	42.21	45.70	41.57	68.20	-26.63	peak
4	4469.214	7.53	33.55	42.41	46.68	45.35	68.20	-22.85	peak
5	11160.000	11.80	37.83	37.98	40.42	52.07	74.00	-21.93	peak
6	16740.000	15.57	42.39	40.07	35.18	53.07	68.20	-15.13	peak

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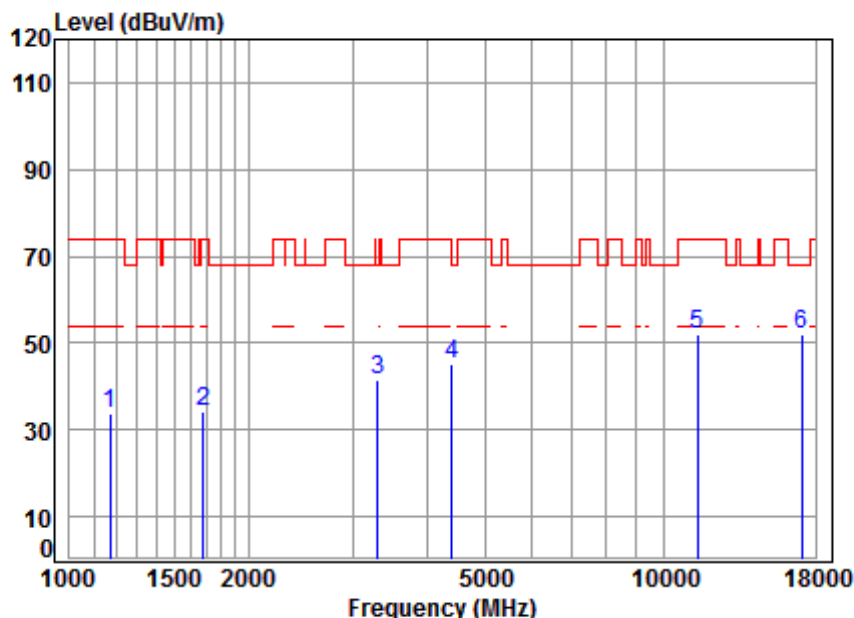
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11.7.2.33 11N20_140 ANT 1_Peak_Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No : 90027
 Mode : 5700 TX RSE
 Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1168.920	4.29	24.45	41.16	45.99	33.57	74.00	-40.43	peak
2	1677.621	5.25	26.58	41.52	43.90	34.21	74.00	-39.79	peak
3	3299.344	6.28	31.39	42.17	46.24	41.74	68.20	-26.46	peak
4	4405.090	7.46	33.44	42.40	46.71	45.21	68.20	-22.99	peak
5	11400.000	12.04	37.88	38.13	40.00	51.79	74.00	-22.21	peak
6	17100.000	16.49	42.66	40.37	33.08	51.86	68.20	-16.34	peak

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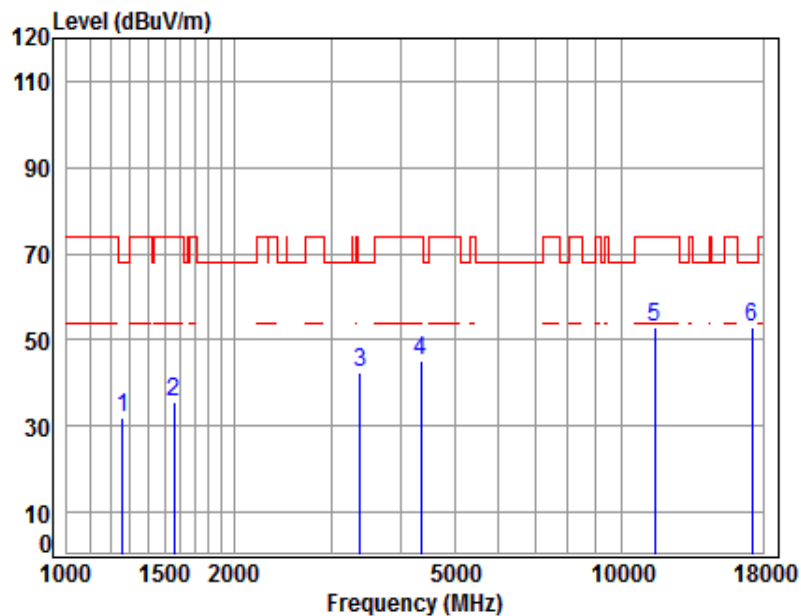
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11.7.2.34 11N20_149 ANT 1_Peak_Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No : 90027
 Mode : 5745 TX RSE
 Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	4.65	24.85	41.23	43.87	32.14	68.20	-36.06	peak
2	1560.673	5.40	26.08	41.45	45.53	35.56	74.00	-38.44	peak
3	3386.297	6.36	31.53	42.19	46.94	42.64	68.20	-25.56	peak
4	4354.454	7.40	33.35	42.39	46.89	45.25	74.00	-28.75	peak
5	11490.000	12.13	37.90	38.19	40.90	52.74	74.00	-21.26	peak
6	17235.000	16.18	42.74	40.48	34.69	53.13	68.20	-15.07	peak

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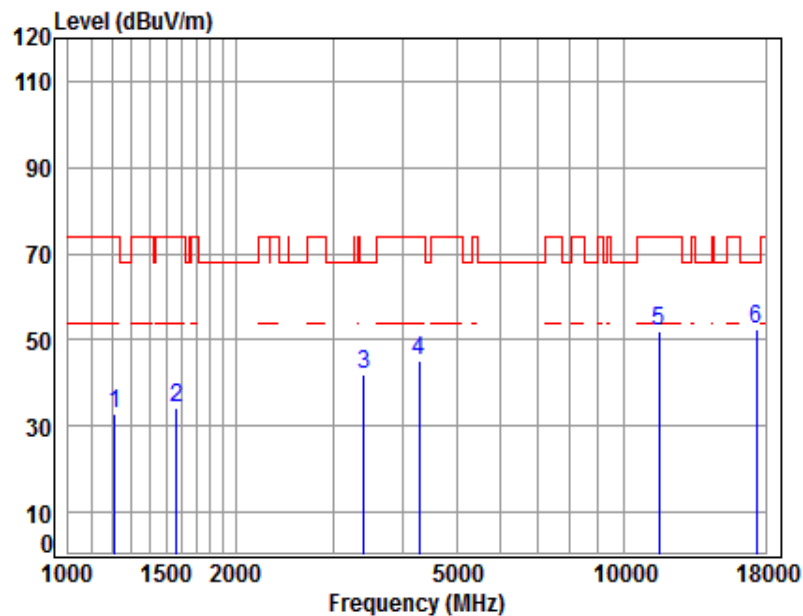
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11.7.2.35 11N20_157 ANT 1_Peak_Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 90027
Mode : 5785 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1210.174	4.46	24.64	41.19	45.06	32.97	74.00	-41.03	peak
2	1565.191	5.39	26.10	41.45	44.34	34.38	74.00	-39.62	peak
3	3405.929	6.38	31.56	42.20	46.33	42.07	68.20	-26.13	peak
4	4291.977	7.33	33.24	42.38	47.19	45.38	74.00	-28.62	peak
5	11570.000	12.17	37.87	38.24	40.03	51.83	74.00	-22.17	peak
6	17355.000	15.92	42.81	40.58	34.40	52.55	68.20	-15.65	peak

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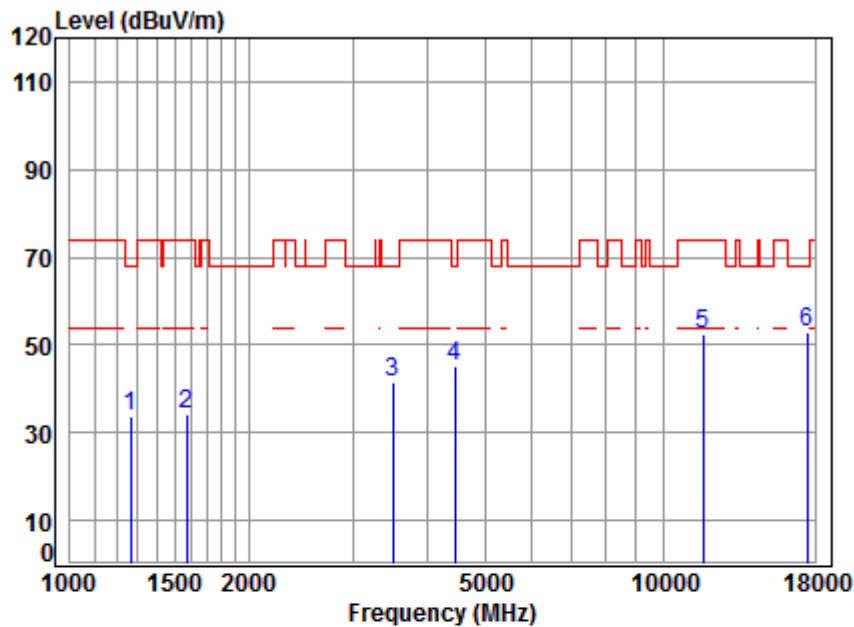
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11.7.2.36 11N20_165 ANT 1_Peak_Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 90027

Mode : 5825 TX RSE

Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1263.796	4.66	24.87	41.23	45.36	33.66	68.20	-34.54	peak
2	1574.265	5.38	26.14	41.45	44.23	34.30	74.00	-39.70	peak
3	3495.691	6.46	31.69	42.22	45.63	41.56	68.20	-26.64	peak
4	4456.315	7.51	33.53	42.41	46.51	45.14	68.20	-23.06	peak
5	11650.000	12.20	37.84	38.29	40.62	52.37	74.00	-21.63	peak
6	17475.000	15.65	42.89	40.68	34.99	52.85	68.20	-15.35	peak

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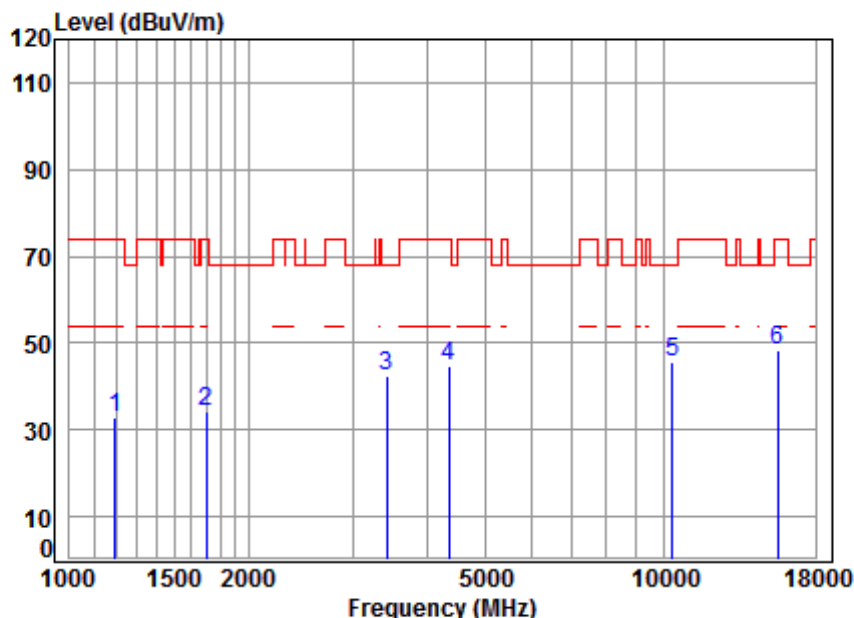
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11.7.2.37 11N20_36 ANT 1_Peak_Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 90027
 Mode : 5180 TX RSE
 Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1192.811	4.39	24.56	41.18	44.98	32.75	74.00	-41.25	peak
2	1702.042	5.23	26.68	41.53	44.00	34.38	74.00	-39.62	peak
3	3415.787	6.38	31.57	42.20	46.48	42.23	68.20	-25.97	peak
4	4354.454	7.40	33.35	42.39	46.35	44.71	74.00	-29.29	peak
5	10360.000	11.19	37.76	37.45	34.21	45.71	68.20	-22.49	peak
6	15540.000	14.30	40.72	39.00	32.39	48.41	74.00	-25.59	peak

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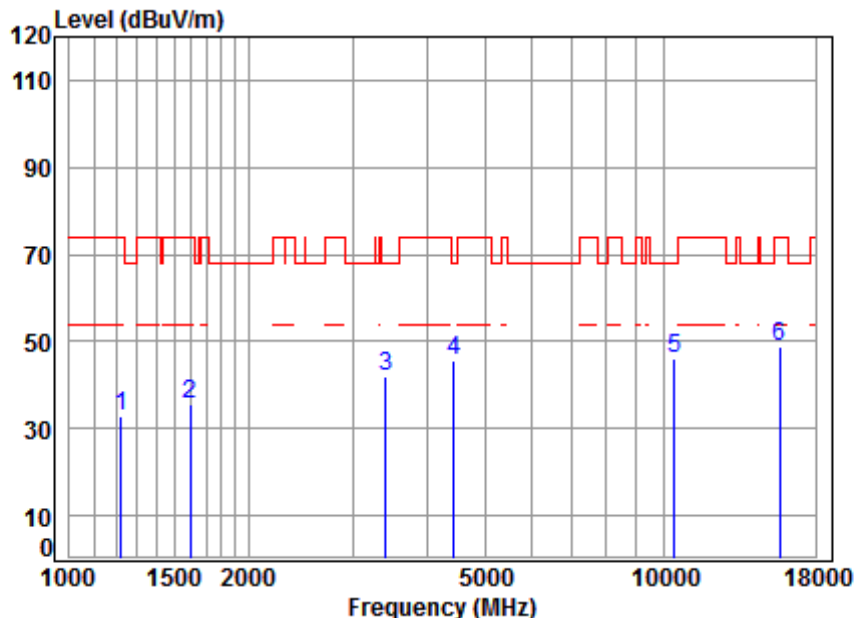
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11.7.2.38 11N20_44 ANT 1_Peak_Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 90027
 Mode : 5220 TX RSE
 Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1220.714	4.50	24.68	41.20	44.91	32.89	74.00	-41.11	peak
2	1597.181	5.35	26.24	41.47	45.31	35.43	74.00	-38.57	peak
3	3405.929	6.38	31.56	42.20	46.23	41.97	68.20	-26.23	peak
4	4443.453	7.50	33.50	42.41	46.97	45.56	68.20	-22.64	peak
5	10440.000	11.25	37.72	37.51	34.48	45.94	68.20	-22.26	peak
6	15660.000	14.48	40.80	39.11	32.82	48.99	74.00	-25.01	peak

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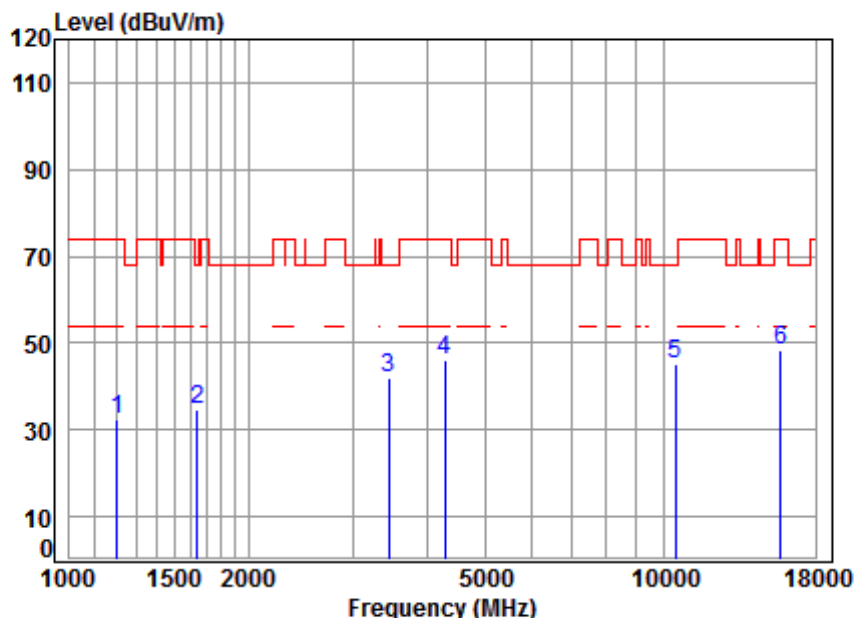
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11.7.2.39 11N20_48 ANT 1_Peak_Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 90027
 Mode : 5240 TX RSE
 Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1203.199	4.43	24.60	41.19	44.41	32.25	74.00	-41.75	peak
2	1644.019	5.30	26.44	41.50	44.32	34.56	68.20	-33.64	peak
3	3445.535	6.41	31.62	42.21	46.07	41.89	68.20	-26.31	peak
4	4291.977	7.33	33.24	42.38	47.67	45.86	74.00	-28.14	peak
5	10480.000	11.28	37.71	37.53	33.90	45.36	68.20	-22.84	peak
6	15720.000	14.57	40.83	39.17	32.27	48.50	74.00	-25.50	peak

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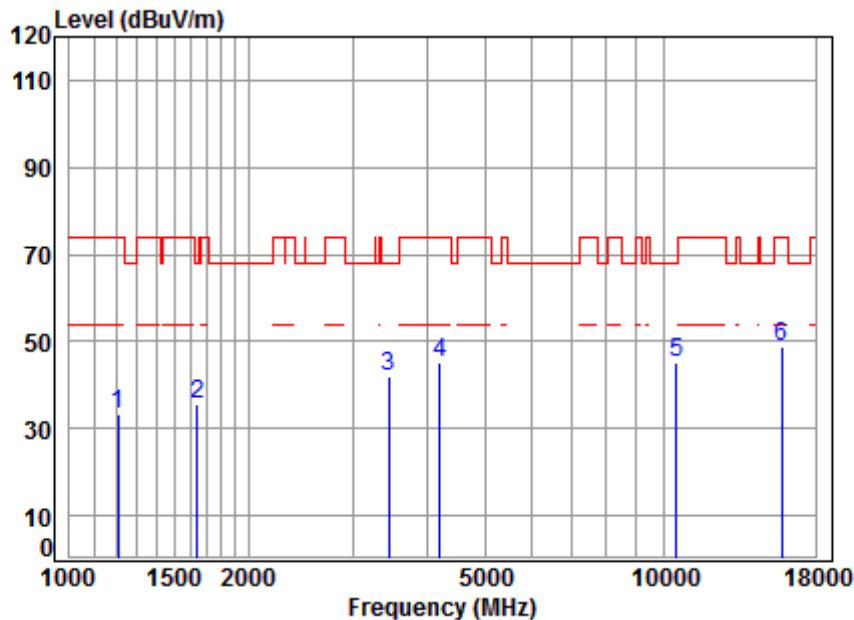
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11.7.2.40 11N20_52 ANT 1_Peak_Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 90027
 Mode : 5260 TX RSE
 Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1206.682	4.44	24.62	41.19	45.52	33.39	74.00	-40.61	peak
2	1644.019	5.30	26.44	41.50	45.36	35.60	68.20	-32.60	peak
3	3445.535	6.41	31.62	42.21	46.31	42.13	68.20	-26.07	peak
4	4206.011	7.23	33.08	42.36	47.36	45.31	74.00	-28.69	peak
5	10520.000	11.30	37.70	37.56	33.69	45.13	68.20	-23.07	peak
6	15780.000	14.66	40.87	39.22	32.69	49.00	74.00	-25.00	peak

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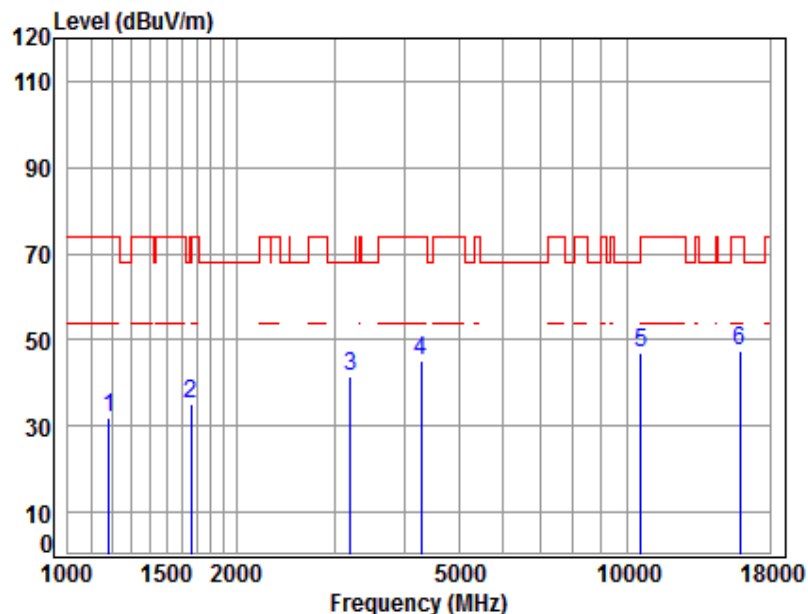
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11.7.2.41 11N20_60 ANT 1_Peak_Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 90027
Mode : 5300 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1182.513	4.35	24.51	41.17	44.22	31.91	74.00	-42.09	peak
2	1658.337	5.28	26.50	41.51	45.06	35.33	68.20	-32.87	peak
3	3205.345	6.19	31.24	42.15	46.08	41.36	68.20	-26.84	peak
4	4279.589	7.31	33.22	42.38	47.02	45.17	74.00	-28.83	peak
5	10600.000	11.36	37.72	37.62	35.54	47.00	68.20	-21.20	peak
6	15900.000	14.84	40.94	39.33	30.92	47.37	74.00	-26.63	peak

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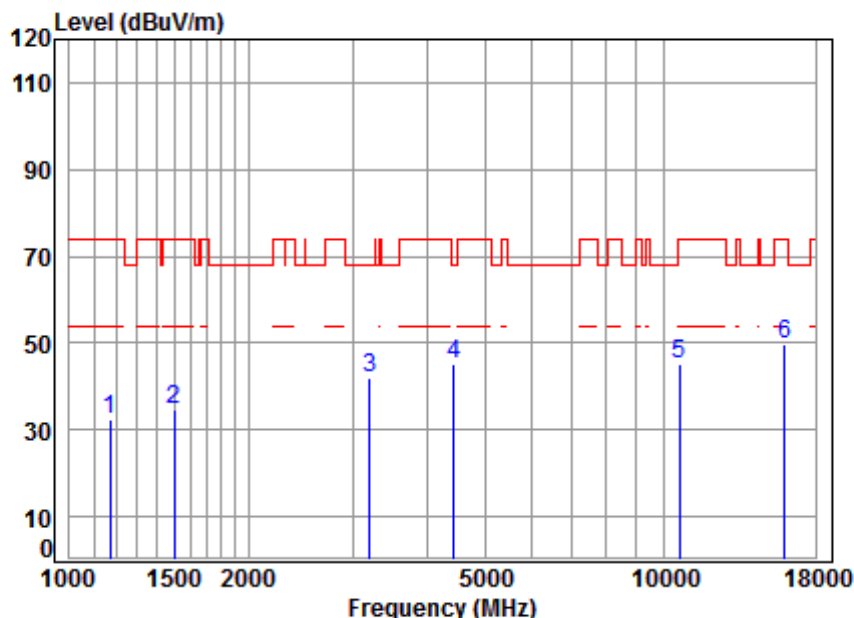
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11.7.2.42 11N20_64 ANT 1_Peak_Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 90027
 Mode : 5320 TX RSE
 Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1172.303	4.31	24.46	41.16	44.68	32.29	74.00	-41.71	peak
2	1498.781	5.48	25.80	41.41	44.59	34.46	74.00	-39.54	peak
3	3196.094	6.18	31.23	42.15	46.66	41.92	68.20	-26.28	peak
4	4430.628	7.48	33.48	42.41	46.42	44.97	68.20	-23.23	peak
5	10640.000	11.39	37.73	37.64	33.79	45.27	74.00	-28.73	peak
6	15960.000	14.93	40.98	39.38	33.31	49.84	74.00	-24.16	peak

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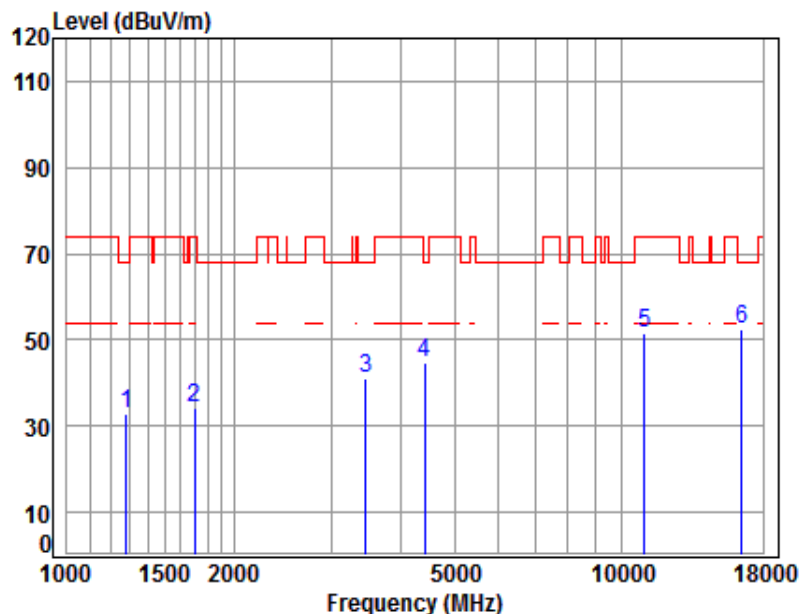
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11.7.2.43 11N20_100 ANT 1_Peak_Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 90027
 Mode : 5500 TX RSE
 Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1278.492	4.72	24.93	41.25	44.46	32.86	68.20	-35.34	peak
2	1697.129	5.23	26.66	41.53	44.07	34.43	74.00	-39.57	peak
3	3465.510	6.43	31.65	42.21	45.31	41.18	68.20	-27.02	peak
4	4417.841	7.47	33.46	42.40	46.14	44.67	68.20	-23.53	peak
5	11000.000	11.63	37.80	37.88	40.04	51.59	74.00	-22.41	peak
6	16500.000	14.50	42.20	39.86	35.79	52.63	68.20	-15.57	peak

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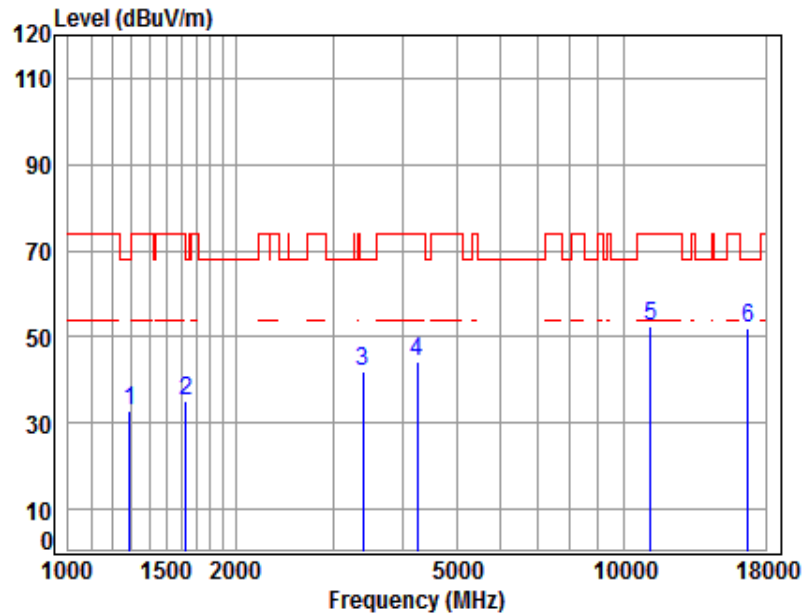
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11.7.2.44 11N20_116 ANT 1_Peak_Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 90027
Mode : 5580 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1289.627	4.76	24.98	41.25	44.14	32.63	68.20	-35.57	peak
2	1629.825	5.31	26.38	41.49	44.78	34.98	68.20	-33.22	peak
3	3396.098	6.37	31.54	42.20	46.10	41.81	68.20	-26.39	peak
4	4242.641	7.27	33.15	42.37	46.22	44.27	74.00	-29.73	peak
5	11160.000	11.80	37.83	37.98	40.85	52.50	74.00	-21.50	peak
6	16740.000	15.57	42.39	40.07	34.12	52.01	68.20	-16.19	peak

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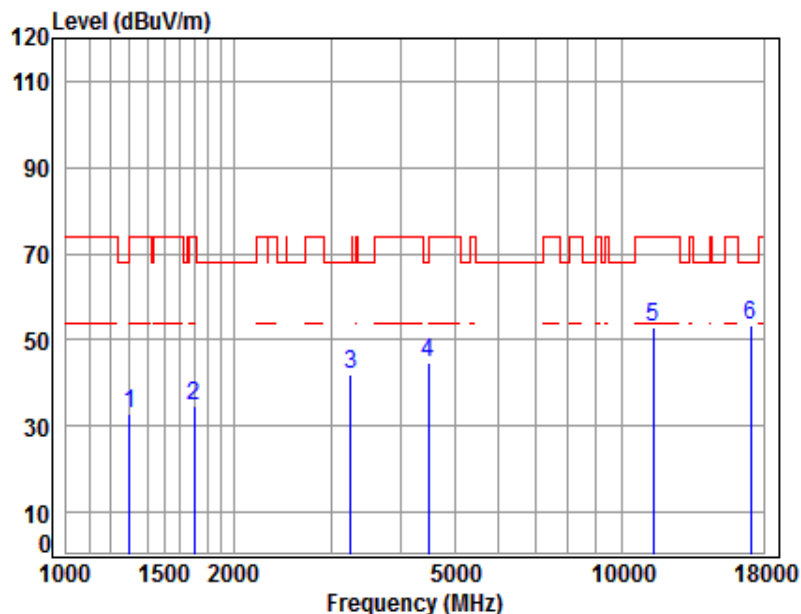
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11.7.2.45 11N20_140 ANT 1_Peak_Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 90027
 Mode : 5700 TX RSE
 Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	4.80	25.03	41.26	44.15	32.72	74.00	-41.28	peak
2	1702.042	5.23	26.68	41.53	44.16	34.54	74.00	-39.46	peak
3	3252.005	6.23	31.32	42.16	46.42	41.81	68.20	-26.39	peak
4	4482.150	7.54	33.57	42.41	45.89	44.59	68.20	-23.61	peak
5	11400.000	12.04	37.88	38.13	41.12	52.91	74.00	-21.09	peak
6	17100.000	16.49	42.66	40.37	34.62	53.40	68.20	-14.80	peak

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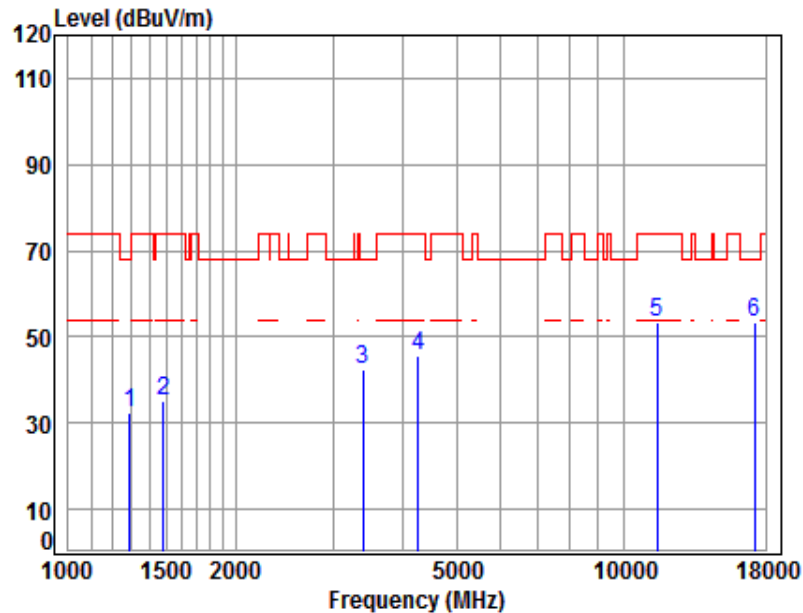
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11.7.2.46 11N20_149 ANT 1_Peak_Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 90027
 Mode : 5745 TX RSE
 Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1289.627	4.76	24.98	41.25	43.74	32.23	68.20	-35.97	peak
2	1481.553	5.42	25.73	41.39	45.49	35.25	74.00	-38.75	peak
3	3396.098	6.37	31.54	42.20	46.61	42.32	68.20	-25.88	peak
4	4267.237	7.30	33.19	42.38	47.61	45.72	74.00	-28.28	peak
5	11490.000	12.13	37.90	38.19	41.59	53.43	74.00	-20.57	peak
6	17235.000	16.18	42.74	40.48	34.84	53.28	68.20	-14.92	peak

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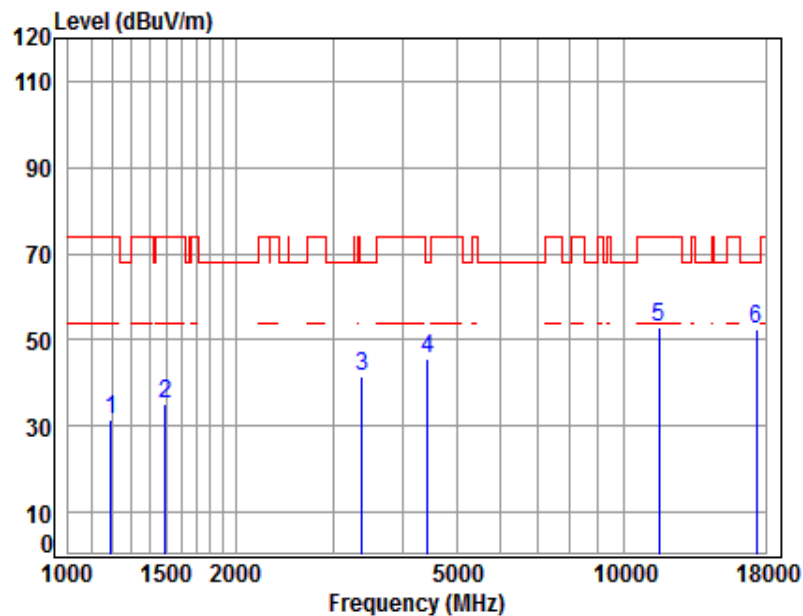
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11.7.2.47 11N20_157 ANT 1_Peak_Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 90027
 Mode : 5785 TX RSE
 Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1192.811	4.39	24.56	41.18	43.50	31.27	74.00	-42.73	peak
2	1494.455	5.46	25.78	41.40	45.36	35.20	74.00	-38.80	peak
3	3386.297	6.36	31.53	42.19	46.05	41.75	68.20	-26.45	peak
4	4430.628	7.48	33.48	42.41	47.07	45.62	68.20	-22.58	peak
5	11570.000	12.17	37.87	38.24	41.09	52.89	74.00	-21.11	peak
6	17355.000	15.92	42.81	40.58	34.43	52.58	68.20	-15.62	peak

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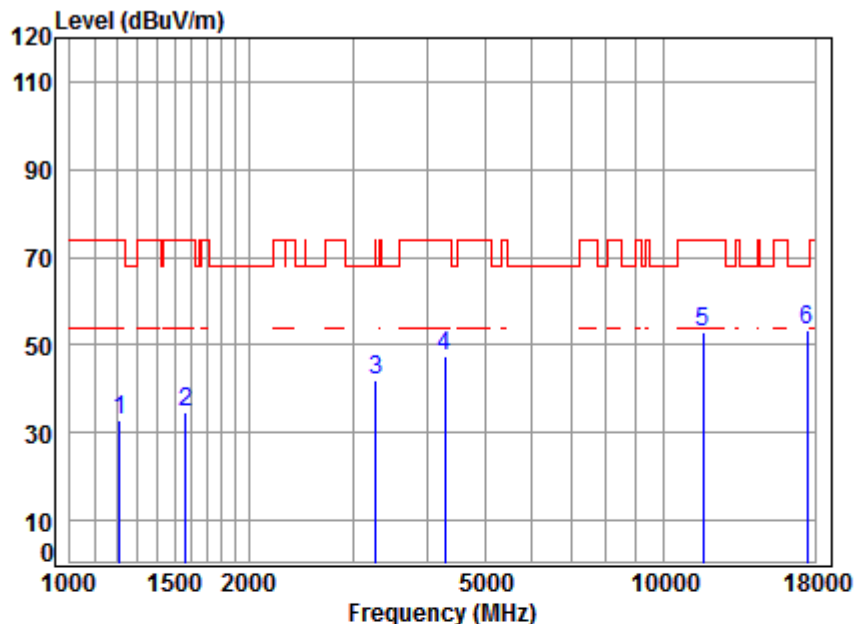
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11.7.2.48 11N20_165 ANT 1_Peak_Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 90027
Mode : 5825 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1213.677	4.47	24.65	41.19	44.88	32.81	74.00	-41.19	peak
2	1569.721	5.39	26.12	41.45	44.52	34.58	74.00	-39.42	peak
3	3280.326	6.26	31.36	42.17	46.33	41.78	68.20	-26.42	peak
4	4291.977	7.33	33.24	42.38	49.18	47.37	74.00	-26.63	peak
5	11650.000	12.20	37.84	38.29	40.99	52.74	74.00	-21.26	peak
6	17475.000	15.65	42.89	40.68	35.71	53.57	68.20	-14.63	peak

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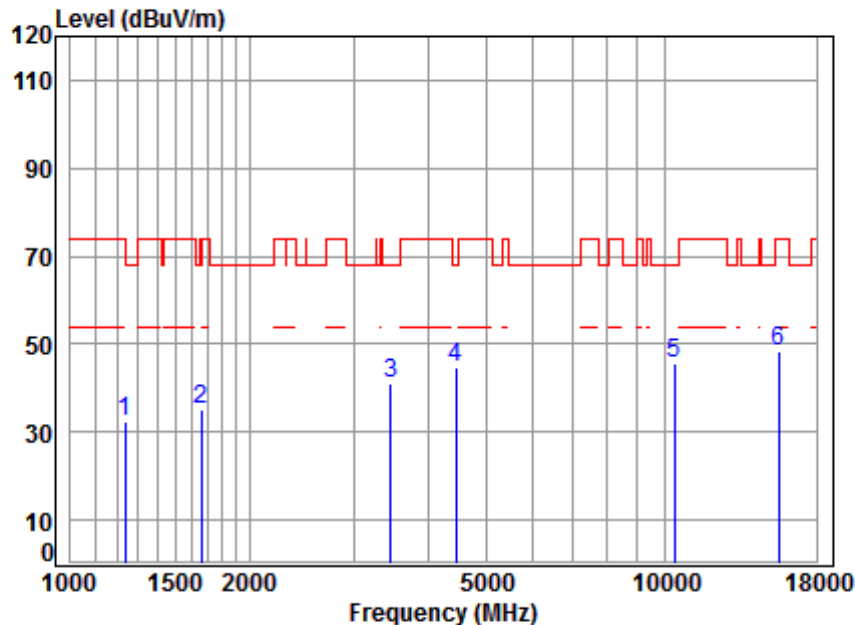
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11.7.2.49 11N40_38 ANT 1_Peak_Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No : 90027
 Mode : 5190 TX RSE
 Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1238.483	4.57	24.76	41.21	44.07	32.19	74.00	-41.81	peak
2	1663.137	5.27	26.52	41.51	44.71	34.99	74.00	-39.01	peak
3	3455.508	6.42	31.63	42.21	45.09	40.93	68.20	-27.27	peak
4	4456.315	7.51	33.53	42.41	46.21	44.84	68.20	-23.36	peak
5	10380.000	11.21	37.75	37.47	34.14	45.63	68.20	-22.57	peak
6	15570.000	14.35	40.74	39.03	32.09	48.15	74.00	-25.85	peak

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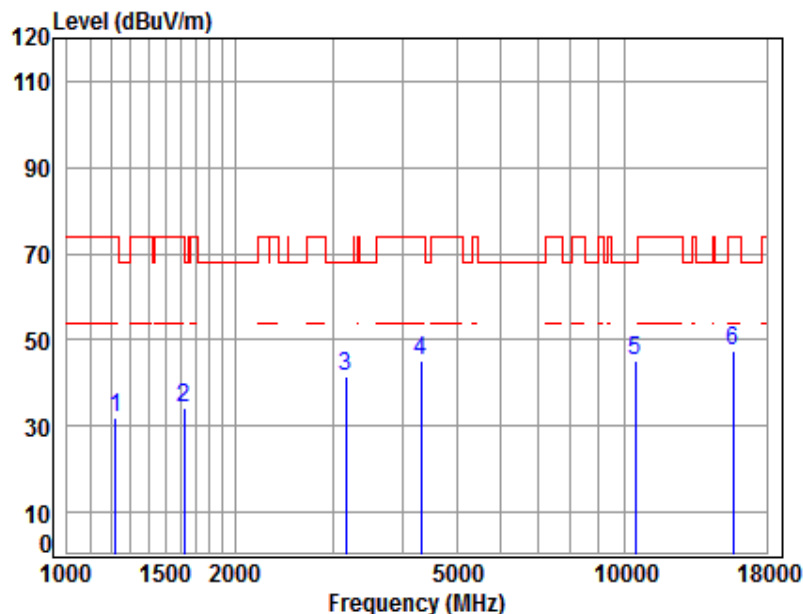
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11.7.2.50 11N40_46 ANT 1_Peak_Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No : 90027
 Mode : 5230 TX RSE
 Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1220.714	4.50	24.68	41.20	43.88	31.86	74.00	-42.14	peak
2	1625.121	5.32	26.36	41.49	43.83	34.02	74.00	-39.98	peak
3	3159.355	6.14	31.17	42.14	46.47	41.64	68.20	-26.56	peak
4	4316.859	7.36	33.28	42.38	47.03	45.29	74.00	-28.71	peak
5	10460.000	11.26	37.72	37.52	33.65	45.11	68.20	-23.09	peak
6	15690.000	14.53	40.82	39.14	31.14	47.35	74.00	-26.65	peak

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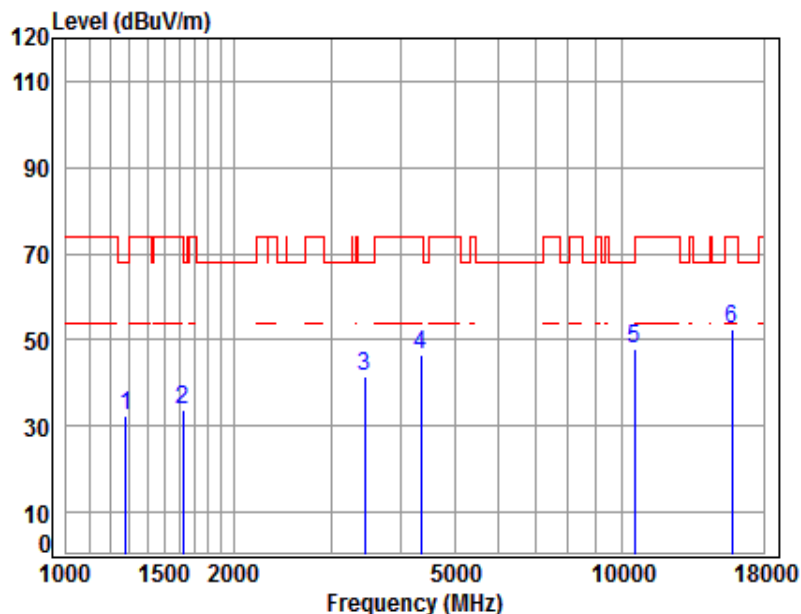
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11.7.2.51 11N40_54 ANT 1_Peak_Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 90027
Mode : 5270 TX RSE
Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1278.492	4.72	24.93	41.25	44.00	32.40	68.20	-35.80	peak
2	1625.121	5.32	26.36	41.49	43.60	33.79	74.00	-40.21	peak
3	3445.535	6.41	31.62	42.21	45.68	41.50	68.20	-26.70	peak
4	4354.454	7.40	33.35	42.39	48.01	46.37	74.00	-27.63	peak
5	10540.000	11.32	37.71	37.57	36.63	48.09	68.20	-20.11	peak
6	15810.000	14.71	40.89	39.25	36.03	52.38	74.00	-21.62	peak

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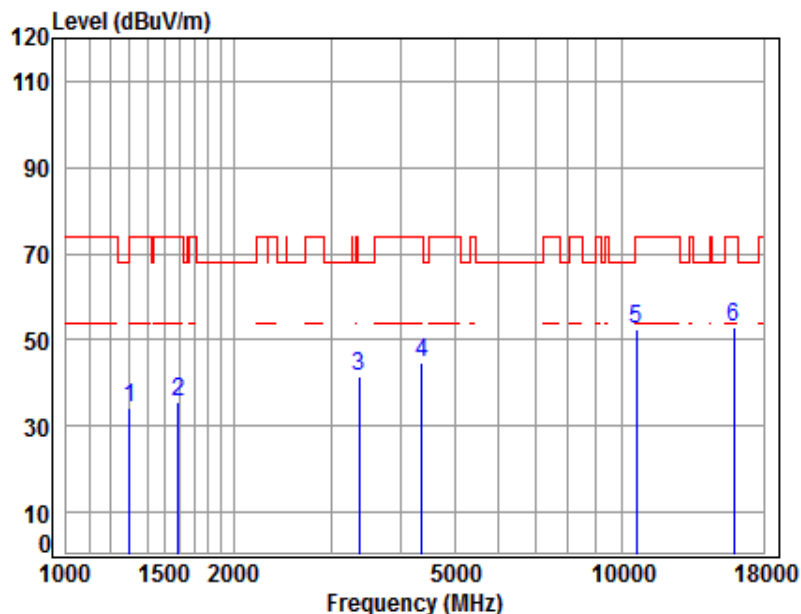
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11.7.2.52 11N40_62 ANT 1_Peak_Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No : 90027
 Mode : 5310 TX RSE
 Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	4.80	25.03	41.26	45.51	34.08	74.00	-39.92	peak
2	1592.571	5.36	26.22	41.47	45.61	35.72	74.00	-38.28	peak
3	3366.778	6.34	31.50	42.19	46.10	41.75	68.20	-26.45	peak
4	4367.058	7.41	33.37	42.39	46.52	44.91	74.00	-29.09	peak
5	10620.000	11.37	37.72	37.63	41.14	52.60	74.00	-21.40	peak
6	15930.000	14.89	40.96	39.36	36.57	53.06	74.00	-20.94	peak

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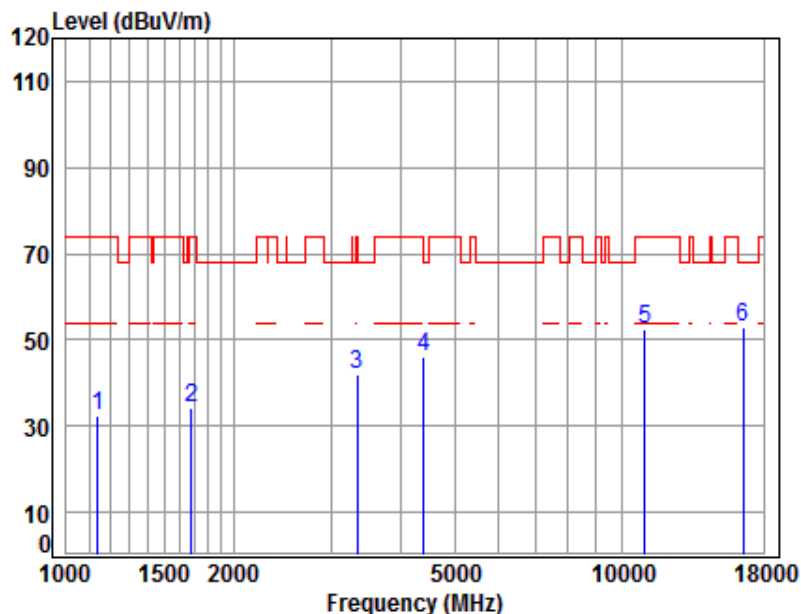
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11.7.2.53 11N40_102 ANT 1_Peak_Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No : 90027
 Mode : 5510 TX RSE
 Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1138.904	4.17	24.31	41.13	45.06	32.41	74.00	-41.59	peak
2	1677.621	5.25	26.58	41.52	44.10	34.41	74.00	-39.59	peak
3	3337.710	6.31	31.45	42.18	46.46	42.04	74.00	-31.96	peak
4	4405.090	7.46	33.44	42.40	47.59	46.09	68.20	-22.11	peak
5	11020.000	11.65	37.80	37.89	40.79	52.35	74.00	-21.65	peak
6	16530.000	14.63	42.22	39.89	35.92	52.88	68.20	-15.32	peak

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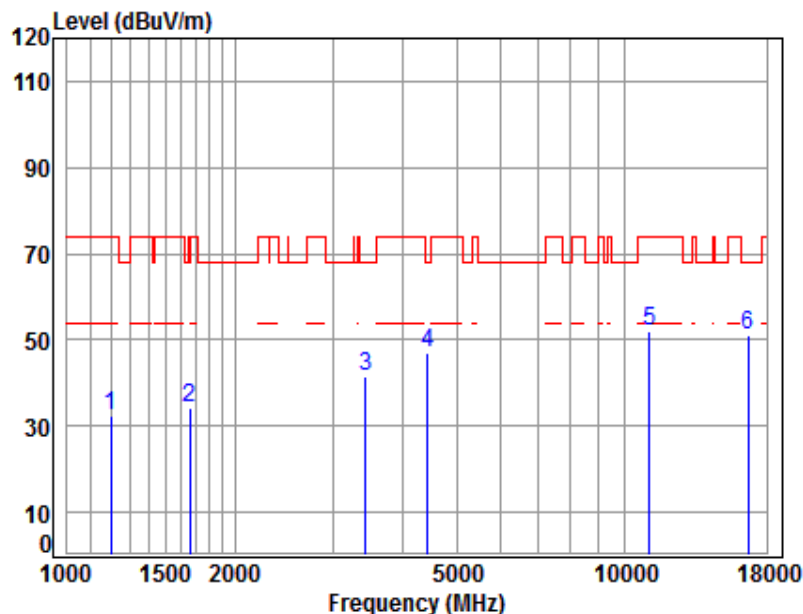
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11.7.2.54 11N40_110 ANT 1_Peak_Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No : 90027
 Mode : 5550 TX RSE
 Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1199.726	4.42	24.59	41.18	44.59	32.42	74.00	-41.58	peak
2	1663.137	5.27	26.52	41.51	43.74	34.02	74.00	-39.98	peak
3	3435.590	6.40	31.60	42.21	45.89	41.68	68.20	-26.52	peak
4	4443.453	7.50	33.50	42.41	48.27	46.86	68.20	-21.34	peak
5	11100.000	11.73	37.82	37.94	40.25	51.86	74.00	-22.14	peak
6	16650.000	15.17	42.32	39.99	33.54	51.04	68.20	-17.16	peak

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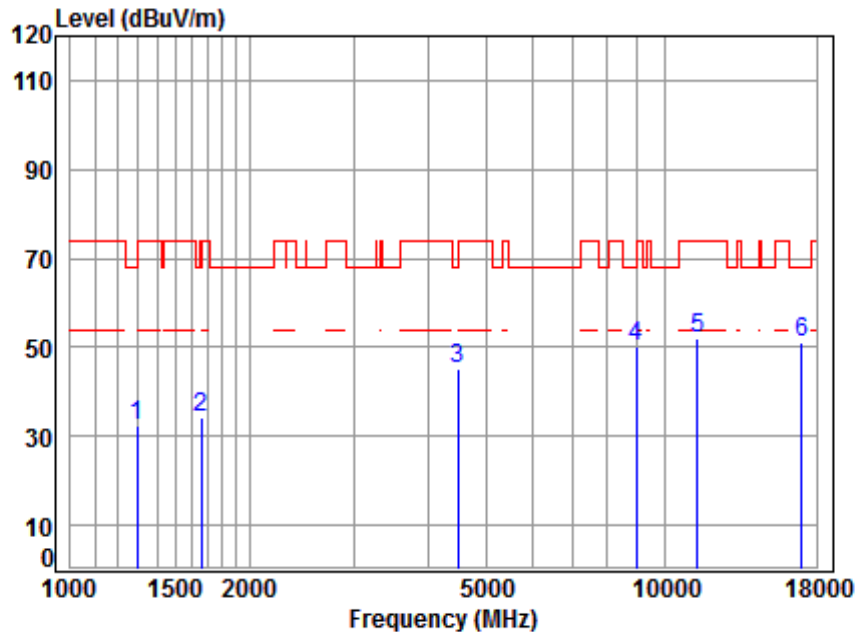
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11.7.2.55 11N40_134 ANT 1_Peak_Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No : 90027
 Mode : 5670 TX RSE
 Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1297.103	4.79	25.01	41.26	43.80	32.34	68.20	-35.86	peak
2	1663.137	5.27	26.52	41.51	44.01	34.29	74.00	-39.71	peak
3	4495.125	7.55	33.59	42.42	46.42	45.14	68.20	-23.06	peak
4	8969.161	10.39	37.19	38.66	41.19	50.11	68.20	-18.09	peak
5	11340.000	11.98	37.87	38.10	40.13	51.88	74.00	-22.12	peak
6	17010.000	16.69	42.61	40.29	32.04	51.05	68.20	-17.15	peak

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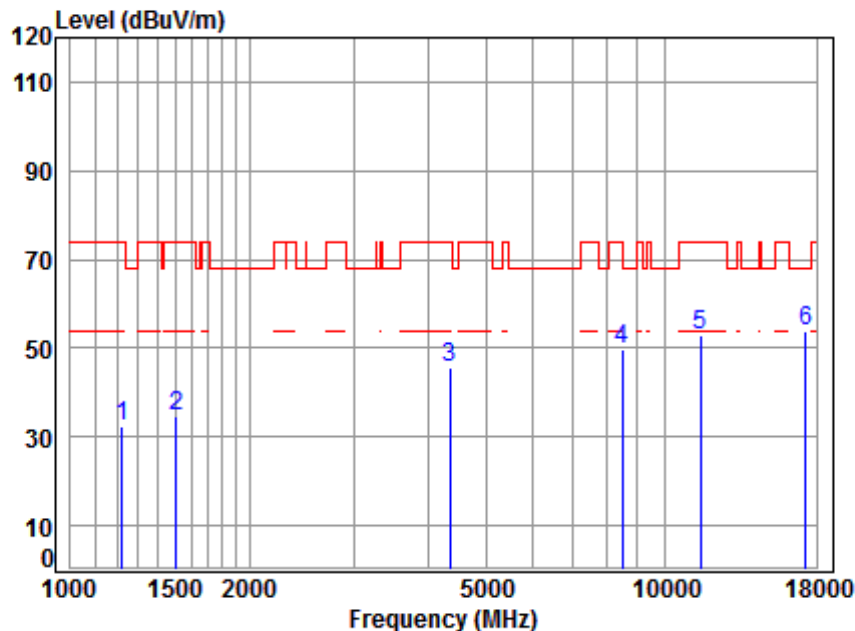
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11.7.2.56 11N40_151 ANT 1_Peak_Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 90027
Mode : 5755 TX RSE
Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1224.247	4.51	24.70	41.20	44.44	32.45	74.00	-41.55	peak
2	1507.470	5.47	25.83	41.41	44.70	34.59	74.00	-39.41	peak
3	4354.454	7.40	33.35	42.39	47.33	45.69	74.00	-28.31	peak
4	8489.882	10.26	36.99	39.40	41.90	49.75	74.00	-24.25	peak
5	11510.000	12.14	37.90	38.20	41.15	52.99	74.00	-21.01	peak
6	17265.000	16.12	42.76	40.51	35.42	53.79	68.20	-14.41	peak

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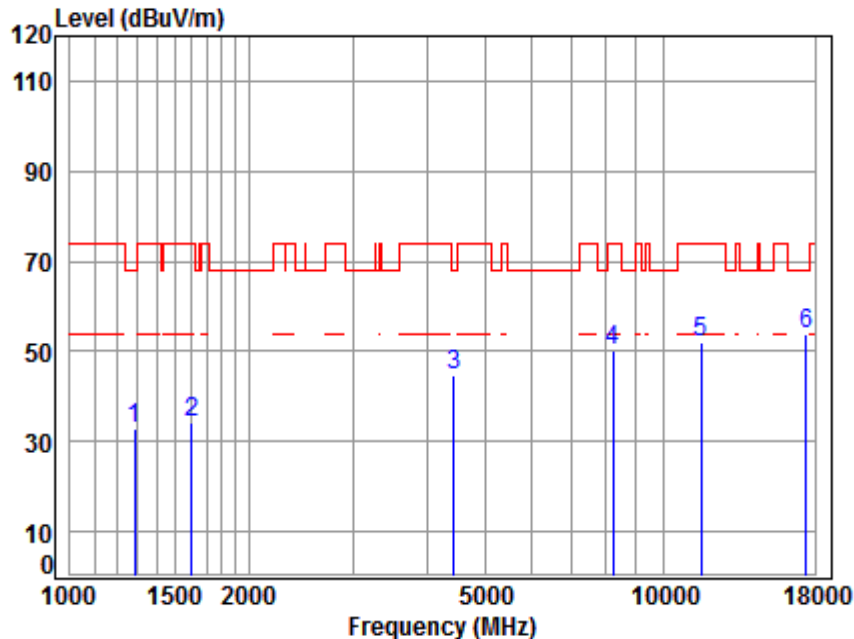
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11.7.2.57 11N40_159 ANT 1_Peak_Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 90027

Mode : 5795 TX RSE

Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1285.904	4.75	24.96	41.25	44.30	32.76	68.20	-35.44	peak
2	1601.804	5.35	26.26	41.47	44.02	34.16	74.00	-39.84	peak
3	4443.453	7.50	33.50	42.41	45.96	44.55	68.20	-23.65	peak
4	8224.200	10.10	36.84	39.83	43.04	50.15	74.00	-23.85	peak
5	11590.000	12.17	37.86	38.25	40.27	52.05	74.00	-21.95	peak
6	17385.000	15.85	42.83	40.60	35.88	53.96	68.20	-14.24	peak

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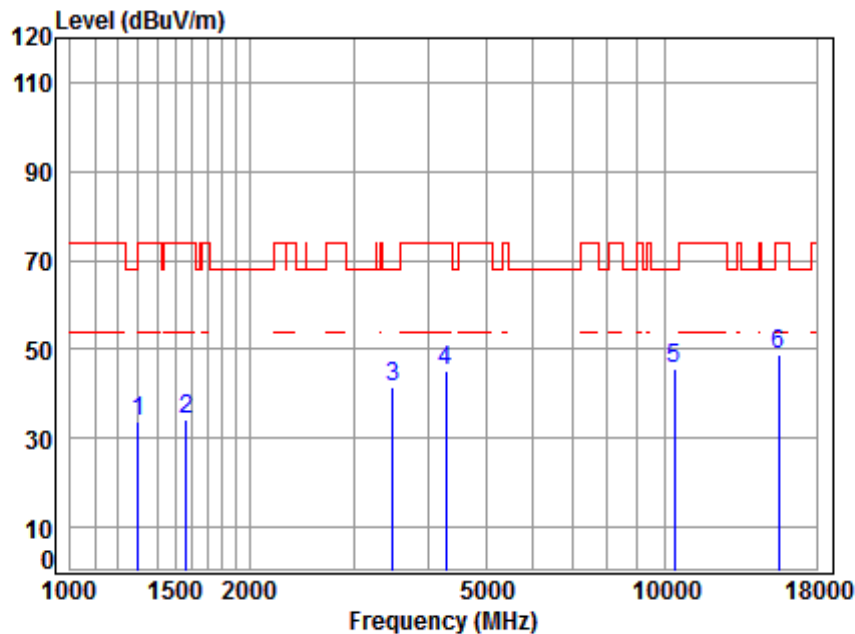
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11.7.2.58 11N40_38 ANT 1_Peak_Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 90027
 Mode : 5190 TX RSE
 Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	4.80	25.03	41.26	45.18	33.75	74.00	-40.25	peak
2	1569.721	5.39	26.12	41.45	43.97	34.03	74.00	-39.97	peak
3	3485.601	6.45	31.68	42.22	45.77	41.68	68.20	-26.52	peak
4	4279.589	7.31	33.22	42.38	46.84	44.99	74.00	-29.01	peak
5	10380.000	11.21	37.75	37.47	34.18	45.67	68.20	-22.53	peak
6	15570.000	14.35	40.74	39.03	32.75	48.81	74.00	-25.19	peak

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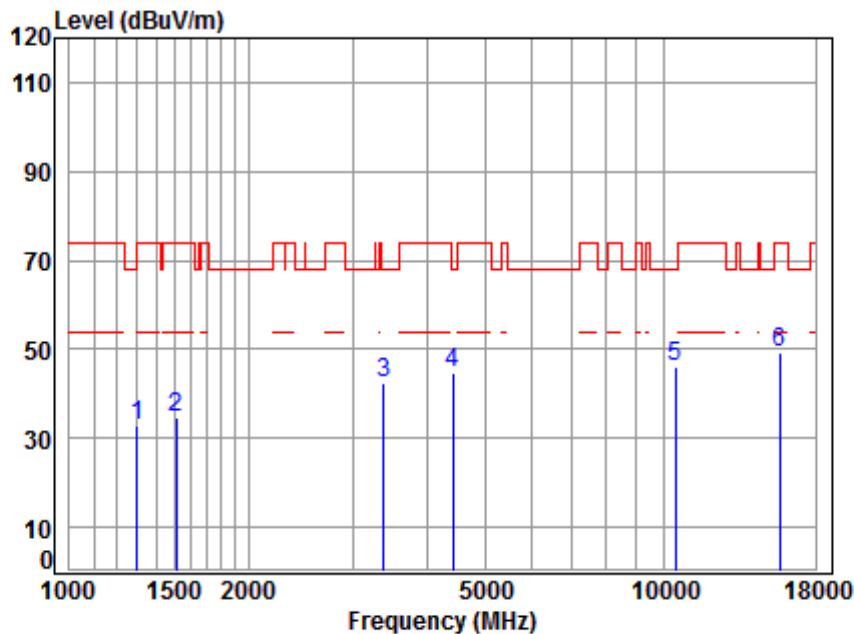
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11.7.2.59 11N40_46 ANT 1_Peak_Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 90027
 Mode : 5230 TX RSE
 Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	4.80	25.03	41.26	44.06	32.63	74.00	-41.37	peak
2	1511.833	5.46	25.85	41.41	44.86	34.76	74.00	-39.24	peak
3	3386.297	6.36	31.53	42.19	46.60	42.30	68.20	-25.90	peak
4	4417.841	7.47	33.46	42.40	46.26	44.79	68.20	-23.41	peak
5	10460.000	11.26	37.72	37.52	34.63	46.09	68.20	-22.11	peak
6	15690.000	14.53	40.82	39.14	33.00	49.21	74.00	-24.79	peak

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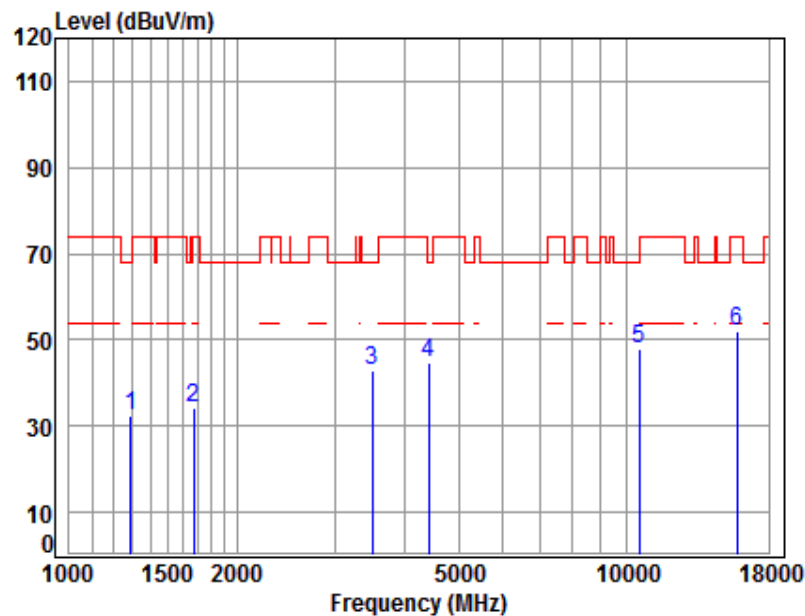
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11.7.2.60 11N40_54 ANT 1_Peak_Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 90027
Mode : 5270 TX RSE
Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1289.627	4.76	24.98	41.25	44.02	32.51	68.20	-35.69	peak
2	1672.779	5.26	26.56	41.52	43.98	34.28	74.00	-39.72	peak
3	3495.691	6.46	31.69	42.22	46.81	42.74	68.20	-25.46	peak
4	4417.841	7.47	33.46	42.40	46.35	44.88	68.20	-23.32	peak
5	10540.000	11.32	37.71	37.57	36.23	47.69	68.20	-20.51	peak
6	15810.000	14.71	40.89	39.25	35.75	52.10	74.00	-21.90	peak

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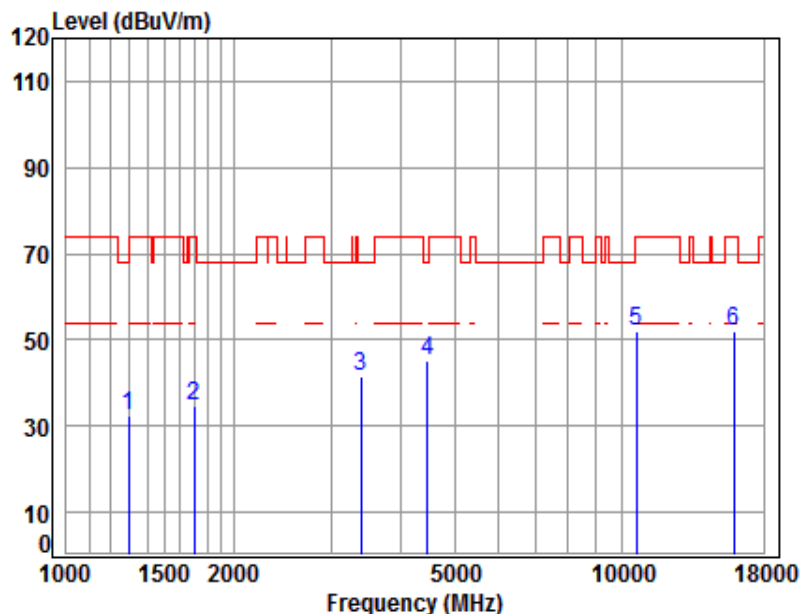
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11.7.2.61 11N40_62 ANT 1_Peak_Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 90027
 Mode : 5310 TX RSE
 Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1297.103	4.79	25.01	41.26	43.77	32.31	68.20	-35.89	peak
2	1702.042	5.23	26.68	41.53	44.51	34.89	74.00	-39.11	peak
3	3396.098	6.37	31.54	42.20	45.91	41.62	68.20	-26.58	peak
4	4469.214	7.53	33.55	42.41	46.65	45.32	68.20	-22.88	peak
5	10620.000	11.37	37.72	37.63	40.74	52.20	74.00	-21.80	peak
6	15930.000	14.89	40.96	39.36	35.72	52.21	74.00	-21.79	peak

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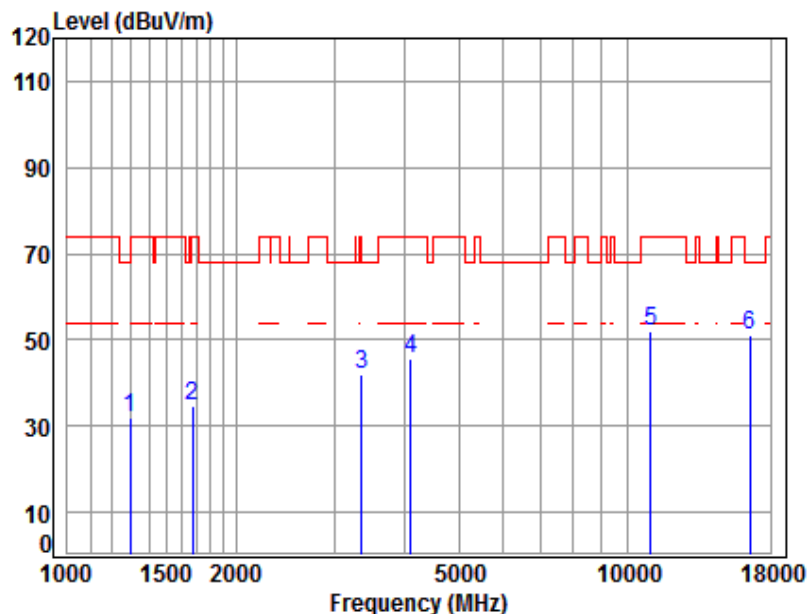
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11.7.2.62 11N40_102 ANT 1_Peak_Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 90027
 Mode : 5510 TX RSE
 Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1297.103	4.79	25.01	41.26	43.31	31.85	68.20	-36.35	peak
2	1672.779	5.26	26.56	41.52	44.41	34.71	74.00	-39.29	peak
3	3357.061	6.33	31.48	42.19	46.35	41.97	74.00	-32.03	peak
4	4109.872	7.11	32.91	42.35	47.86	45.53	74.00	-28.47	peak
5	11020.000	11.65	37.80	37.89	40.34	51.90	74.00	-22.10	peak
6	16530.000	14.63	42.22	39.89	34.36	51.32	68.20	-16.88	peak

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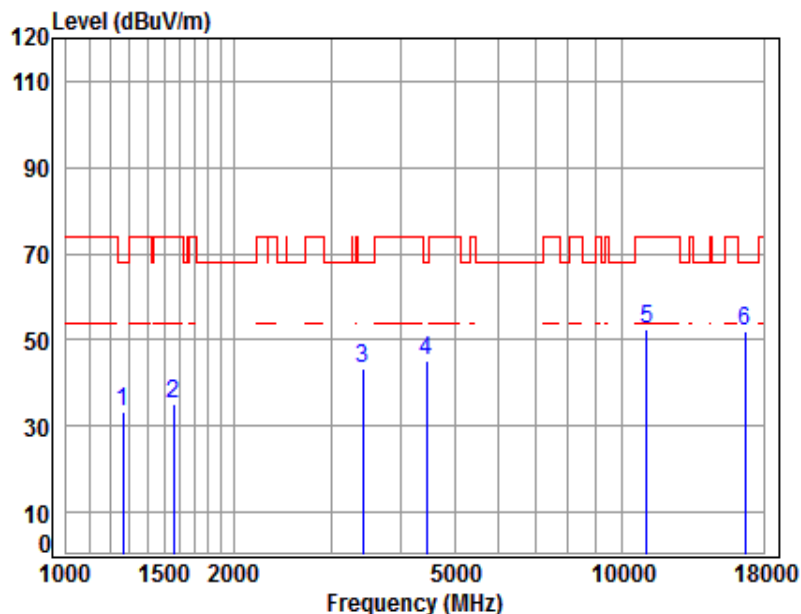
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11.7.2.63 11N40_110 ANT 1_Peak_Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 90027
 Mode : 5550 TX RSE
 Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1263.796	4.66	24.87	41.23	44.96	33.26	68.20	-34.94	peak
2	1560.673	5.40	26.08	41.45	44.90	34.93	74.00	-39.07	peak
3	3415.787	6.38	31.57	42.20	47.46	43.21	68.20	-24.99	peak
4	4456.315	7.51	33.53	42.41	46.34	44.97	68.20	-23.23	peak
5	11100.000	11.73	37.82	37.94	40.68	52.29	74.00	-21.71	peak
6	16650.000	15.17	42.32	39.99	34.56	52.06	68.20	-16.14	peak

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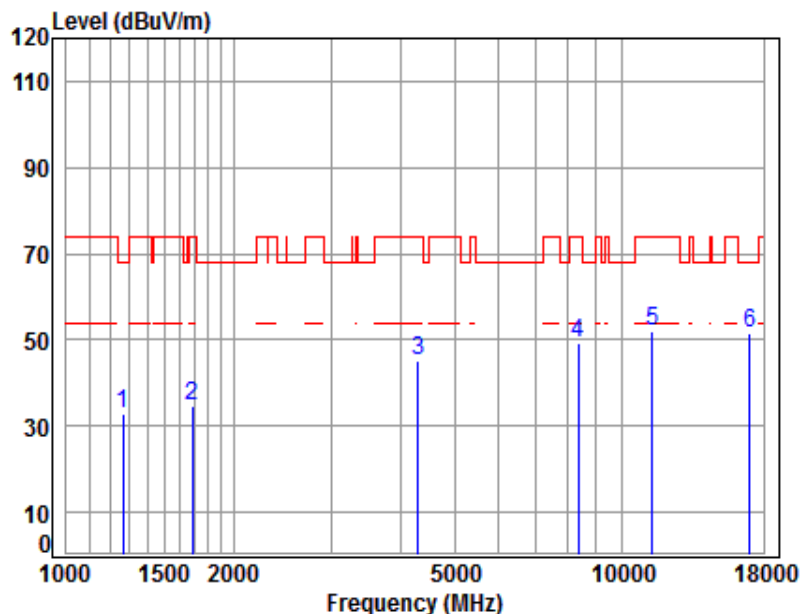
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11.7.2.64 11N40_134 ANT 1_Peak_Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 90027
Mode : 5670 TX RSE
Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1263.796	4.66	24.87	41.23	44.33	32.63	68.20	-35.57	peak
2	1687.347	5.24	26.62	41.52	44.52	34.86	74.00	-39.14	peak
3	4304.400	7.34	33.26	42.38	47.08	45.30	74.00	-28.70	peak
4	8343.918	10.17	36.91	39.63	41.84	49.29	74.00	-24.71	peak
5	11340.000	11.98	37.87	38.10	40.19	51.94	74.00	-22.06	peak
6	17010.000	16.69	42.61	40.29	32.48	51.49	68.20	-16.71	peak

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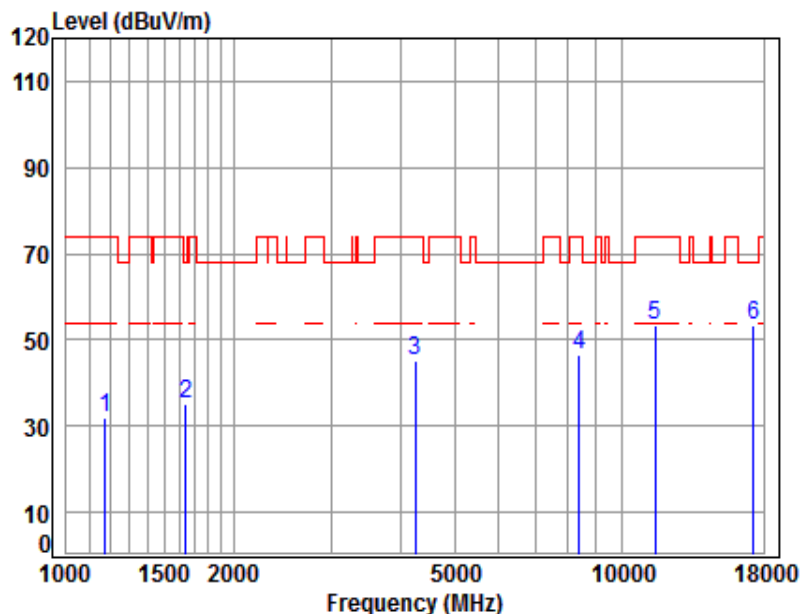
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11.7.2.65 11N40_151 ANT 1_Peak_Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 90027
Mode : 5755 TX RSE
Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1175.697	4.32	24.48	41.16	44.19	31.83	74.00	-42.17	peak
2	1644.019	5.30	26.44	41.50	44.72	34.96	68.20	-33.24	peak
3	4242.641	7.27	33.15	42.37	47.11	45.16	74.00	-28.84	peak
4	8392.292	10.20	36.94	39.56	38.79	46.37	74.00	-27.63	peak
5	11510.000	12.14	37.90	38.20	41.63	53.47	74.00	-20.53	peak
6	17265.000	16.12	42.76	40.51	35.07	53.44	68.20	-14.76	peak

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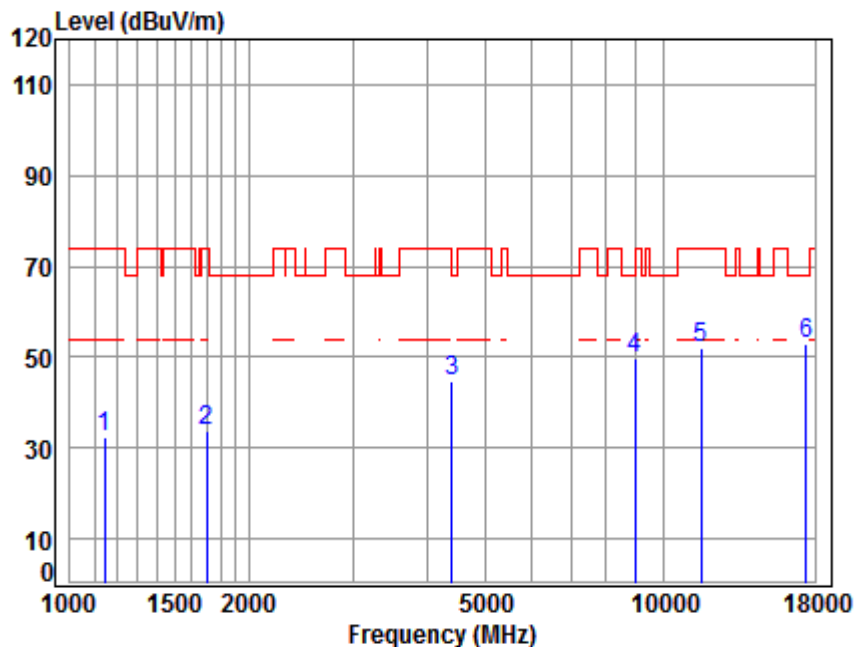
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11.7.2.66 11N40_159 ANT 1_Peak_Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 90027
Mode : 5795 TX RSE
Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1145.507	4.20	24.34	41.14	45.08	32.48	74.00	-41.52	peak
2	1702.042	5.23	26.68	41.53	43.54	33.92	74.00	-40.08	peak
3	4405.090	7.46	33.44	42.40	46.18	44.68	68.20	-23.52	peak
4	8969.161	10.39	37.19	38.66	41.03	49.95	68.20	-18.25	peak
5	11590.000	12.17	37.86	38.25	40.35	52.13	74.00	-21.87	peak
6	17385.000	15.85	42.83	40.60	34.92	53.00	68.20	-15.20	peak

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Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

2) Scan from 9kHz to 40GHz, The disturbance between 9KHz to 30MHz and 18GHz to 40GHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported .

3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

4) All modes have been tested, but only the worst case data displayed in this report.

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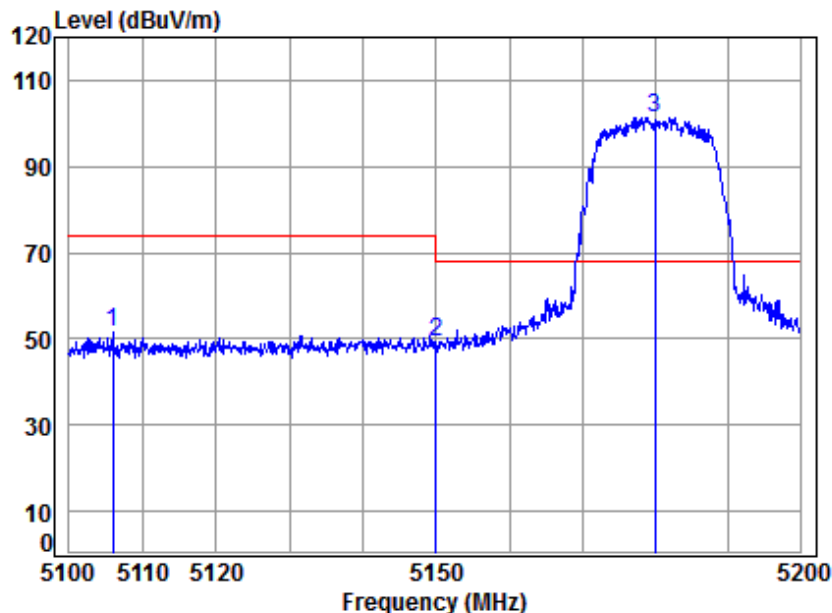
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11.7.3 Band edge falling to restricted band

11.7.3.1 11A20_36 ANT 1_Peak_Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 90027
Mode : 5180 Band edge
: 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5105.945	8.26	34.29	42.40	51.61	51.76	74.00	-22.24	peak
2	5149.980	8.33	34.32	42.36	49.08	49.37	74.00	-24.63	peak
3 *	5180.000	8.37	34.35	42.33	100.91	101.30	68.20	33.10	peak

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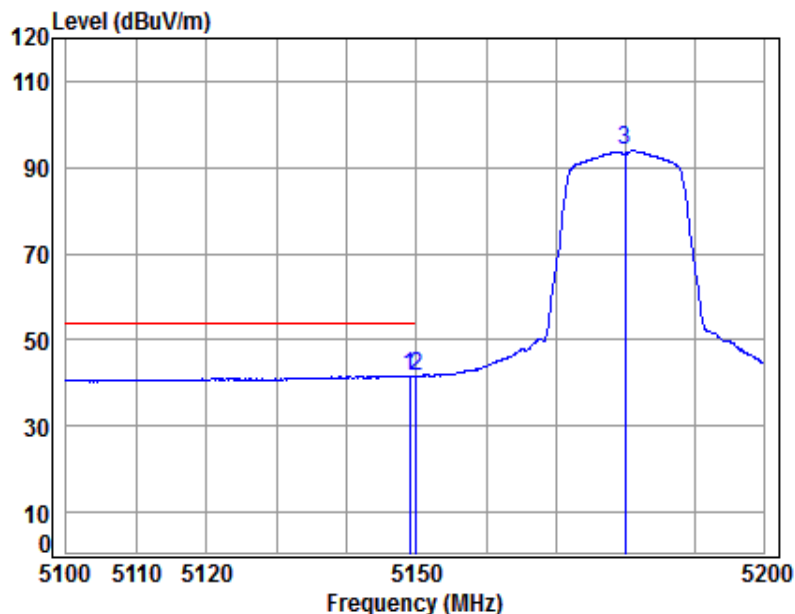
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11.7.3.2 11A20_36 ANT 1_Average_Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No : 90027
 Mode : 5180 Band edge
 : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.958	8.32	34.32	42.36	41.42	41.70	54.00	-12.30	Average
2	5149.980	8.33	34.32	42.36	41.44	41.73	54.00	-12.27	Average
3	5180.000	8.37	34.35	42.33	93.47	93.86	-----	-----	Average

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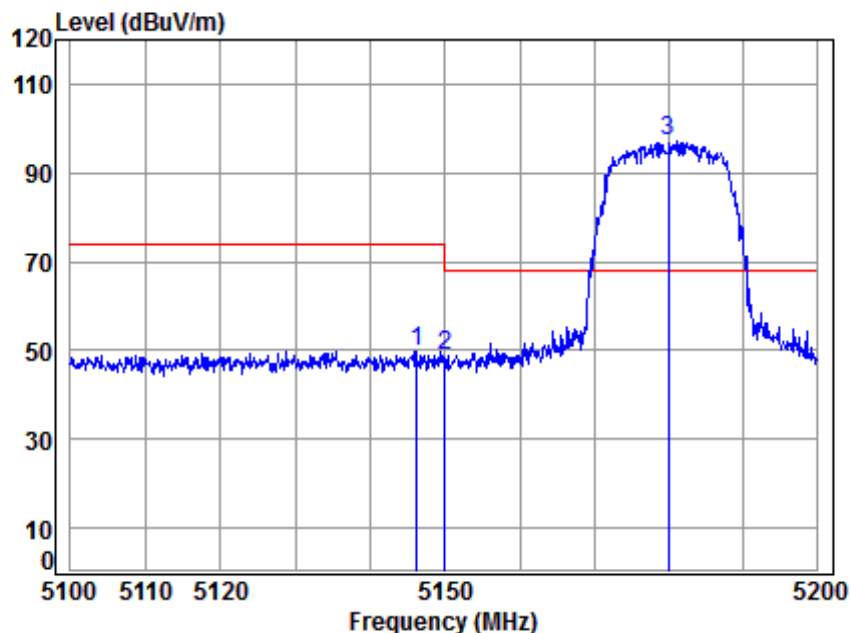
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11.7.3.3 11A20_36 ANT 1_Peak_Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 90027

Mode : 5180 Band edge

: 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5146.159	8.32	34.32	42.36	49.50	49.78	74.00	-24.22	peak
2	5149.980	8.33	34.32	42.36	48.56	48.85	74.00	-25.15	peak
3 *	5180.000	8.37	34.35	42.33	96.68	97.07	68.20	28.87	peak

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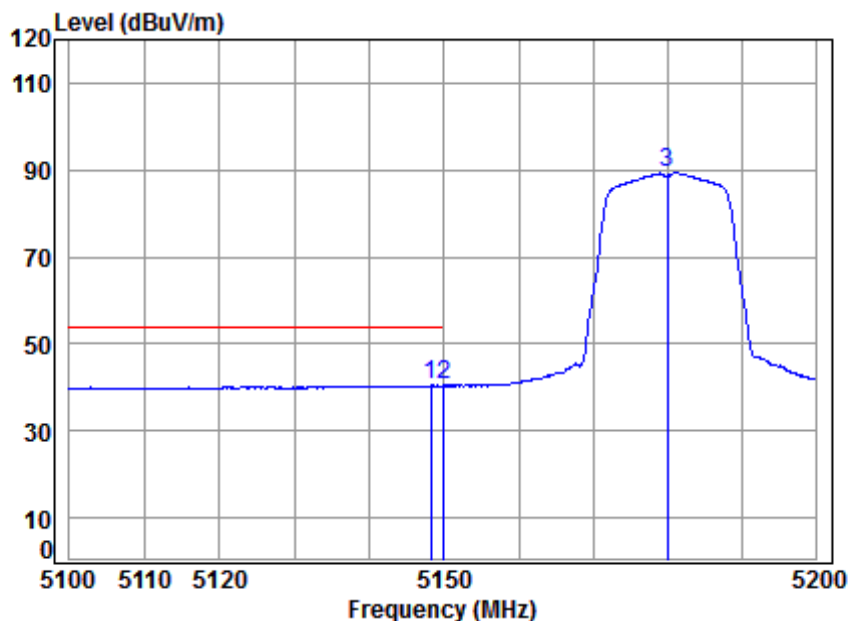
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11.7.3.4 11A20_36 ANT 1_Average_Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 90027

Mode : 5180 Band edge

: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.257	8.32	34.32	42.36	40.19	40.47	54.00	-13.53	Average
2	5149.980	8.33	34.32	42.36	40.15	40.44	54.00	-13.56	Average
3	5180.000	8.37	34.35	42.33	88.93	89.32	-----	-----	Average

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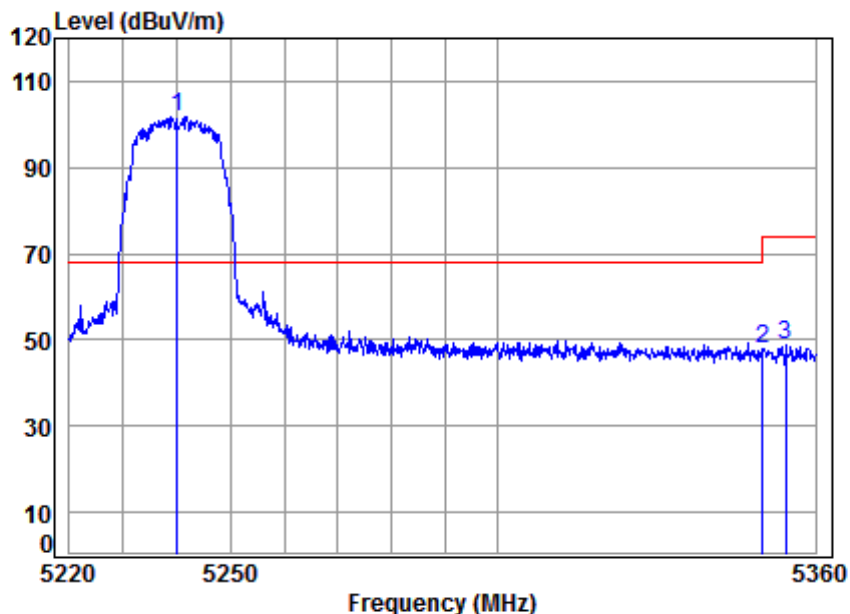
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11.7.3.5 11A20_48 ANT 1_Peak_Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 90027

Mode : 5240 Band edge

: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	5240.000	8.46	34.40	42.27	101.07	101.66	68.20	33.46	peak
2	5350.020	8.63	34.48	42.17	47.11	48.05	74.00	-25.95	peak
3	5354.329	8.64	34.49	42.16	48.05	49.02	74.00	-24.98	peak

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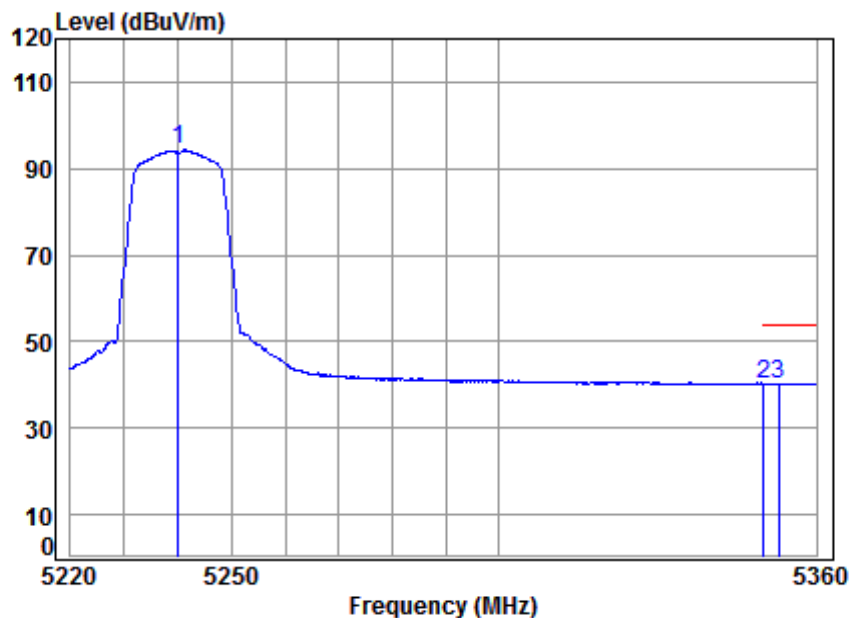
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11.7.3.6 11A20_48 ANT 1_Average_Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No : 90027
 Mode : 5240 Band edge
 : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.000	8.46	34.40	42.27	93.65	94.24	-----	-----	Average
2	5350.020	8.63	34.48	42.17	39.28	40.22	54.00	-13.78	Average
3	5352.912	8.63	34.49	42.17	39.39	40.34	54.00	-13.66	Average

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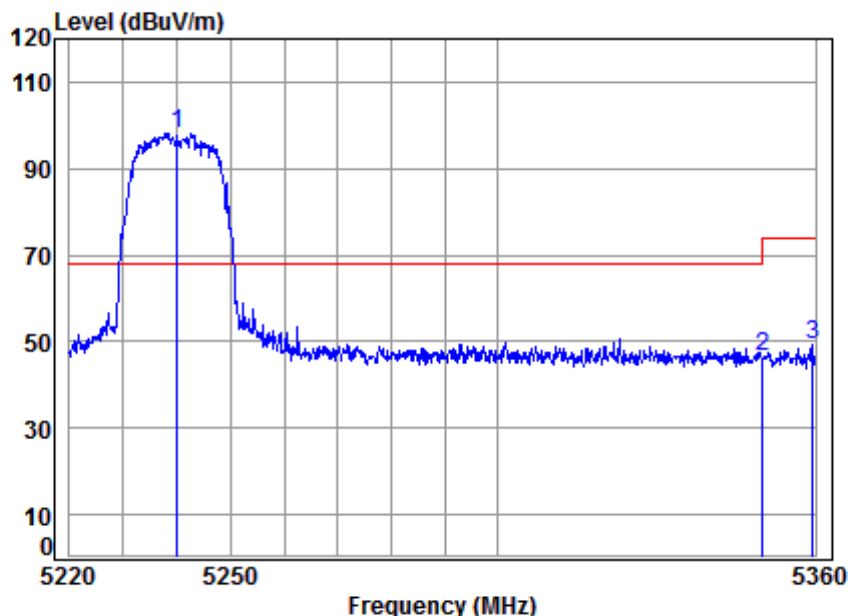
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11.7.3.7 11A20_48 ANT 1_Peak_Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 90027

Mode : 5240 Band edge

: 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	5240.000	8.46	34.40	42.27	97.69	98.28	68.20	30.08	peak
2	5350.020	8.63	34.48	42.17	45.39	46.33	74.00	-27.67	peak
3	5359.574	8.64	34.49	42.16	48.17	49.14	74.00	-24.86	peak

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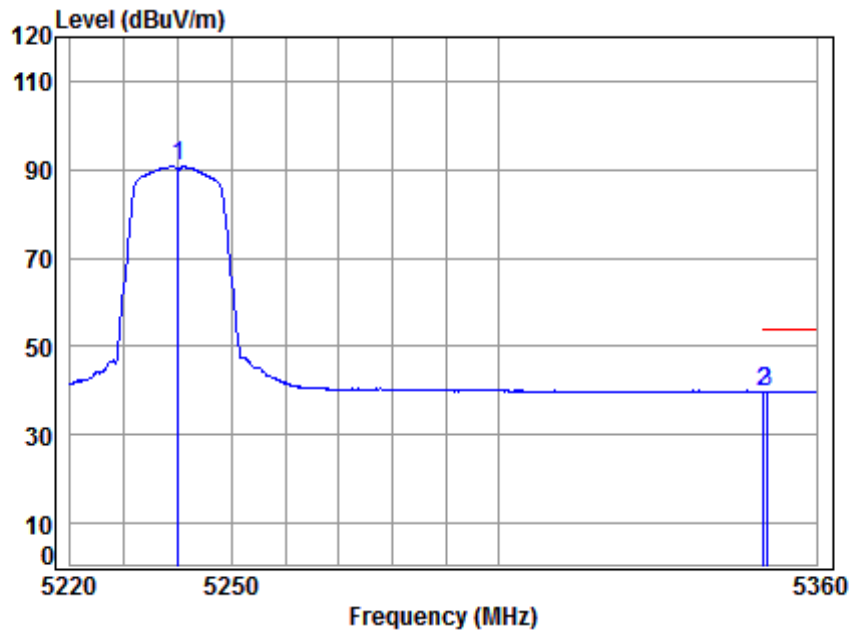
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11.7.3.8 11A20_48 ANT 1_Average_Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 90027

Mode : 5240 Band edge

: 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.000	8.46	34.40	42.27	90.19	90.78	-----	-----	Average
2	5350.020	8.63	34.48	42.17	38.93	39.87	54.00	-14.13	Average
3	5350.504	8.63	34.48	42.17	38.92	39.86	54.00	-14.14	Average

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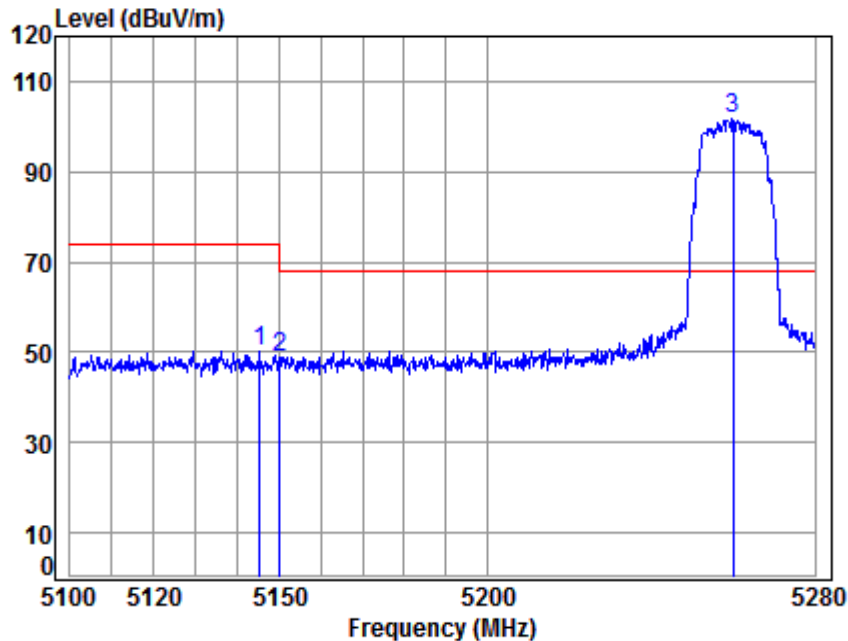
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11.7.3.9 11A20_52 ANT 1_Peak_Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 90027

Mode : 5260 Band edge

: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5145.309	8.32	34.32	42.36	49.88	50.16	74.00	-23.84	peak
2	5149.980	8.33	34.32	42.36	48.61	48.90	74.00	-25.10	peak
3 *	5260.000	8.49	34.41	42.25	101.30	101.95	68.20	33.75	peak

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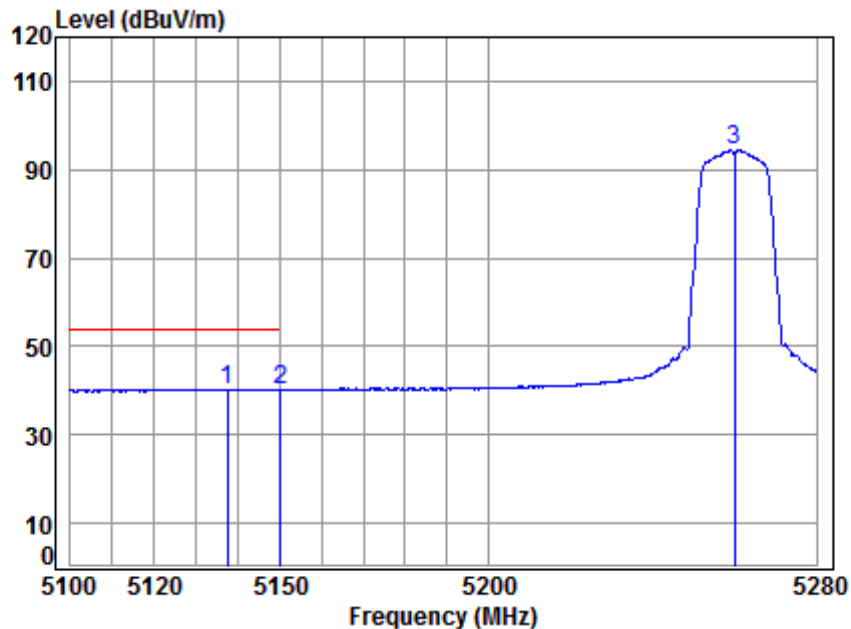
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11.7.3.10 11A20_52 ANT 1_Average_Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 90027

Mode : 5260 Band edge

: 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5137.284	8.31	34.31	42.37	40.12	40.37	54.00	-13.63	Average
2	5149.980	8.33	34.32	42.36	40.05	40.34	54.00	-13.66	Average
3	5260.000	8.49	34.41	42.25	93.68	94.33	-----	-----	Average

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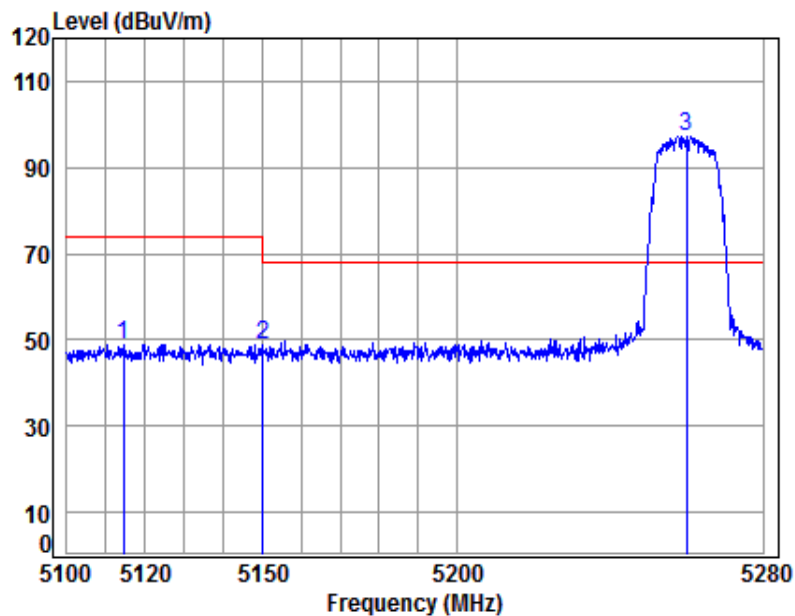
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11.7.3.11 11A20_52 ANT 1_Peak_Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 90027
Mode : 5260 Band edge
: 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5114.349	8.27	34.29	42.39	48.79	48.96	74.00	-25.04	peak
2	5149.980	8.33	34.32	42.36	48.41	48.70	74.00	-25.30	peak
3 *	5260.000	8.49	34.41	42.25	96.58	97.23	68.20	29.03	peak

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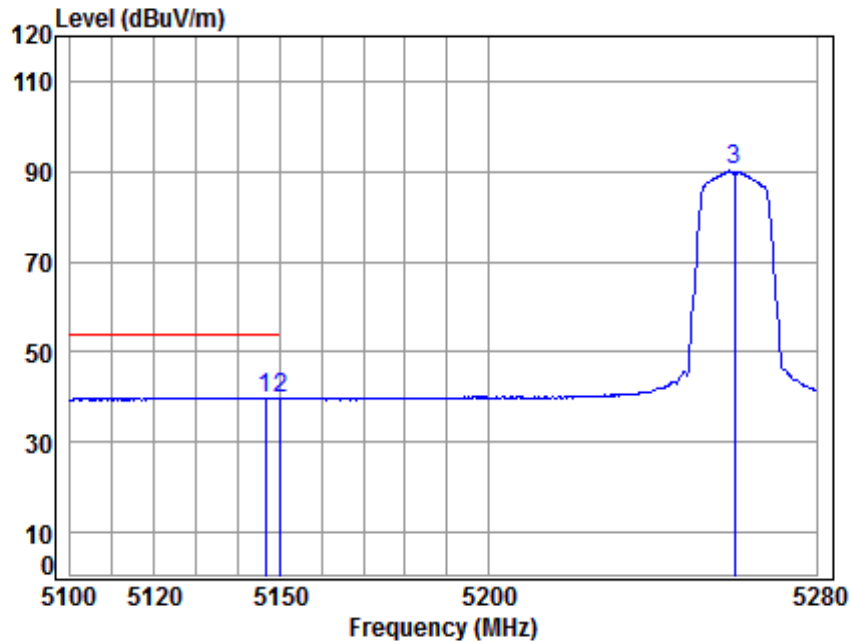
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11.7.3.12 11A20_52 ANT 1_Average_Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 90027

Mode : 5260 Band edge

: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5146.558	8.32	34.32	42.36	39.52	39.80	54.00	-14.20	Average
2	5149.980	8.33	34.32	42.36	39.42	39.71	54.00	-14.29	Average
3	5260.000	8.49	34.41	42.25	89.47	90.12	-----	-----	Average

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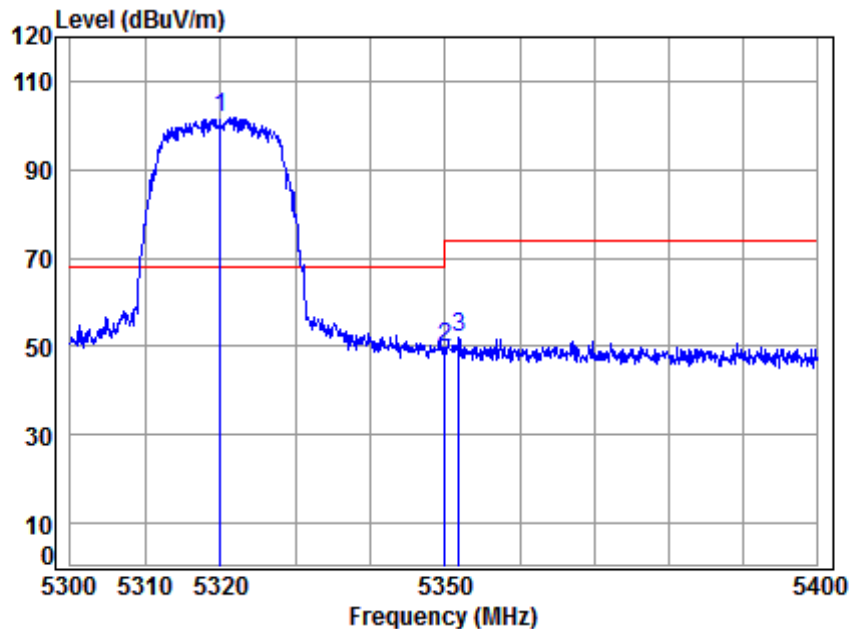
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11.7.3.13 11A20_64 ANT 1_Peak_Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 90027

Mode : 5320 Band edge

: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	5320.000	8.58	34.46	42.20	101.12	101.96	68.20	33.76	peak
2	5350.020	8.63	34.48	42.17	48.70	49.64	74.00	-24.36	peak
3	5351.867	8.63	34.49	42.17	50.96	51.91	74.00	-22.09	peak

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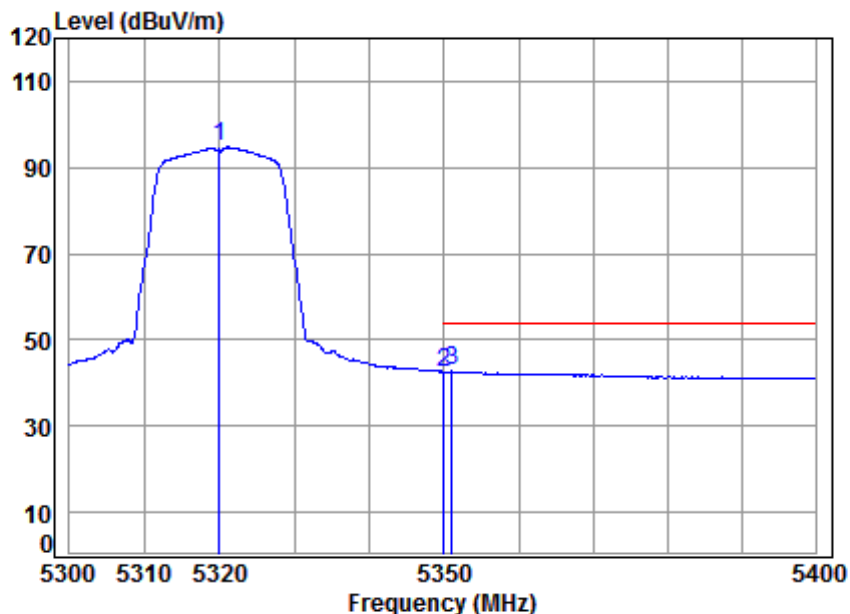
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11.7.3.14 11A20_64 ANT 1_Average_Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 90027

Mode : 5320 Band edge

: 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	8.58	34.46	42.20	93.88	94.72	-----	-----	Average
2	5350.020	8.63	34.48	42.17	41.72	42.66	54.00	-11.34	Average
3	5351.066	8.63	34.48	42.17	41.73	42.67	54.00	-11.33	Average

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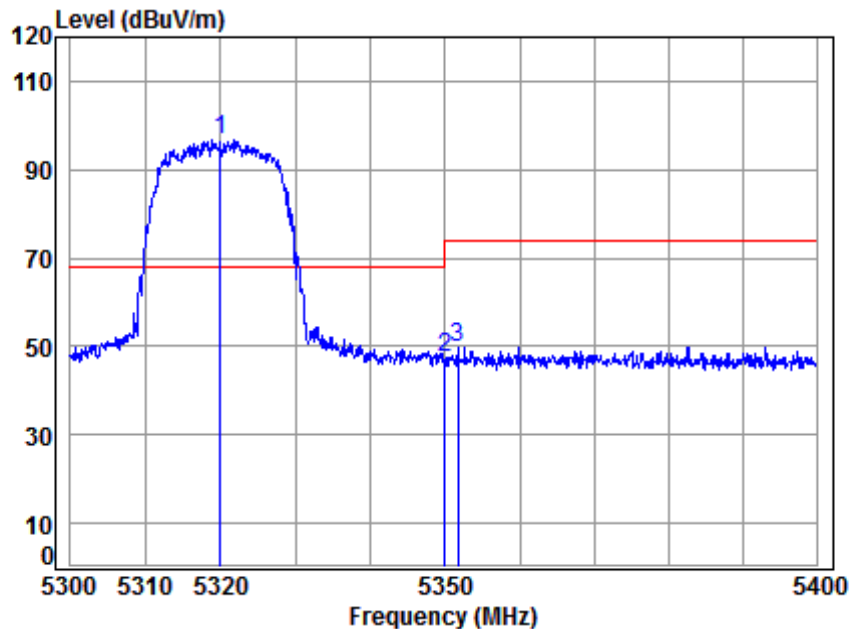
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11.7.3.15 11A20_64 ANT 1_Peak_Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 90027

Mode : 5320 Band edge

: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	5320.000	8.58	34.46	42.20	95.82	96.66	68.20	28.46	peak
2	5350.020	8.63	34.48	42.17	46.71	47.65	74.00	-26.35	peak
3	5351.667	8.63	34.49	42.17	48.94	49.89	74.00	-24.11	peak

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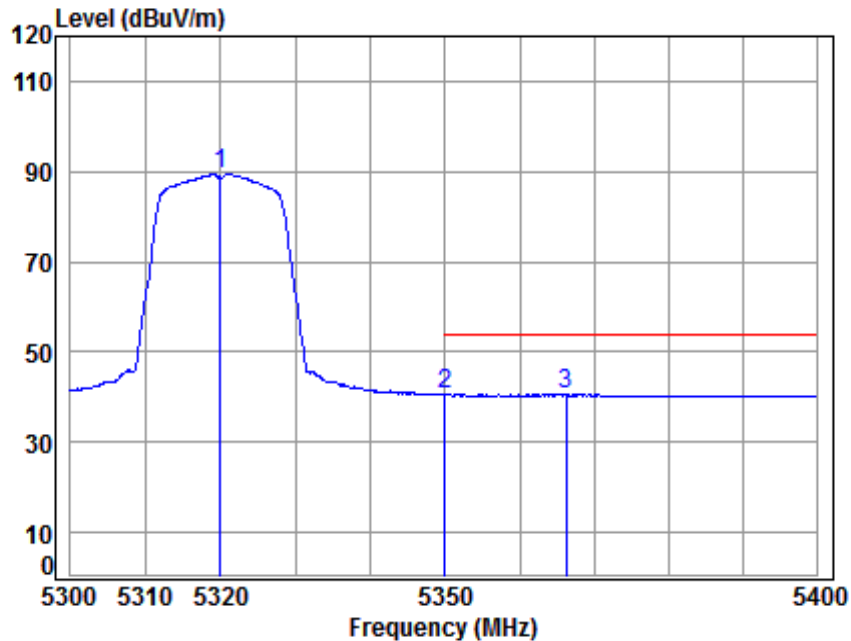
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11.7.3.16 11A20_64 ANT 1_Average_Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 90027

Mode : 5320 Band edge

: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	8.58	34.46	42.20	88.51	89.35	-----	-----	Average
2	5350.020	8.63	34.48	42.17	39.63	40.57	54.00	-13.43	Average
3	5366.292	8.65	34.50	42.15	39.69	40.69	54.00	-13.31	Average

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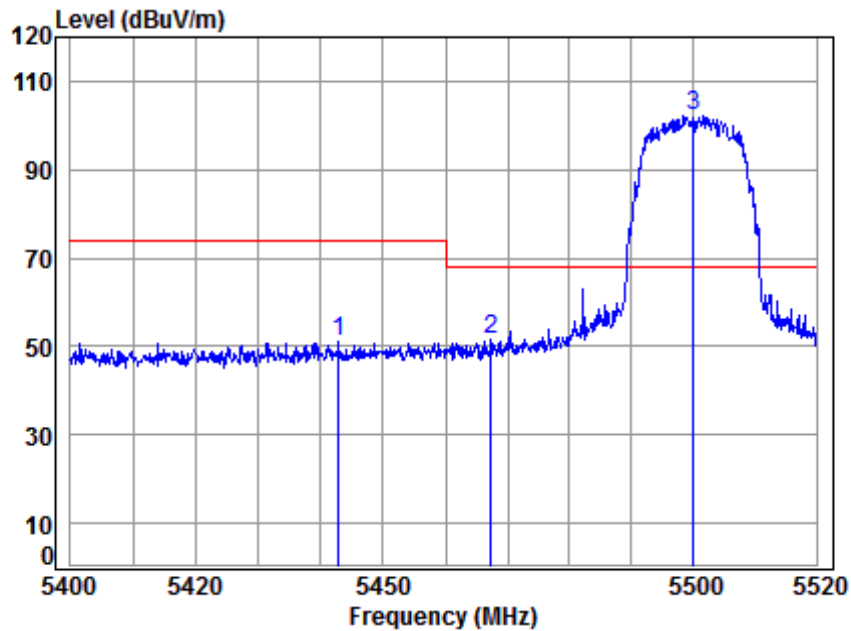
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11.7.3.17 11A20_100 ANT 1_Peak_Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 90027

Mode : 5500 Band edge

: 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5442.896	8.77	34.56	42.08	49.65	50.90	74.00	-23.10	peak
2	5467.355	8.80	34.58	42.06	50.15	51.47	68.20	-16.73	peak
3 *	5500.000	8.85	34.60	42.03	100.67	102.09	68.20	33.89	peak

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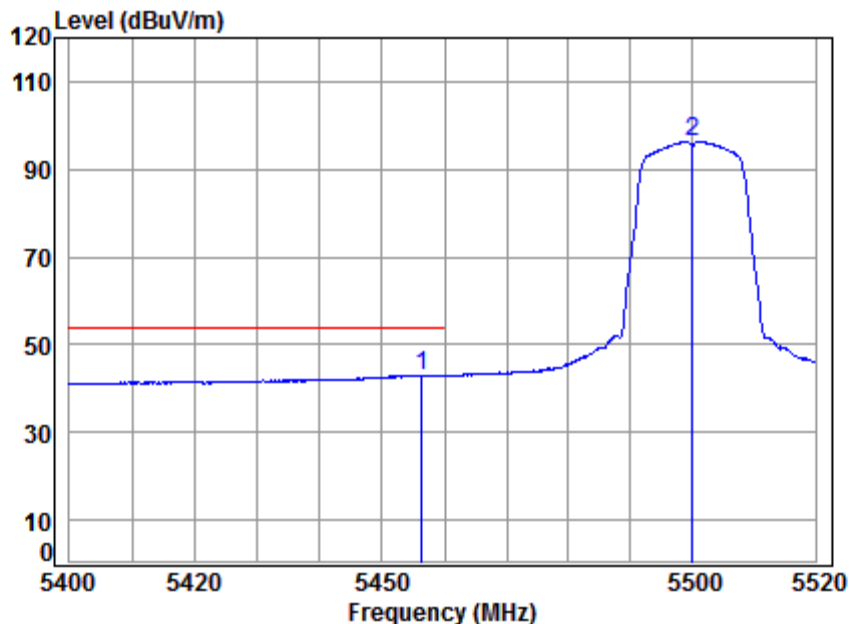
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11.7.3.18 11A20_100 ANT 1_Average_Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 90027

Mode : 5500 Band edge

: 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5456.431	8.79	34.57	42.07	41.78	43.07	54.00	-10.93	Average
2	5500.000	8.85	34.60	42.03	95.07	96.49	-----	-----	Average

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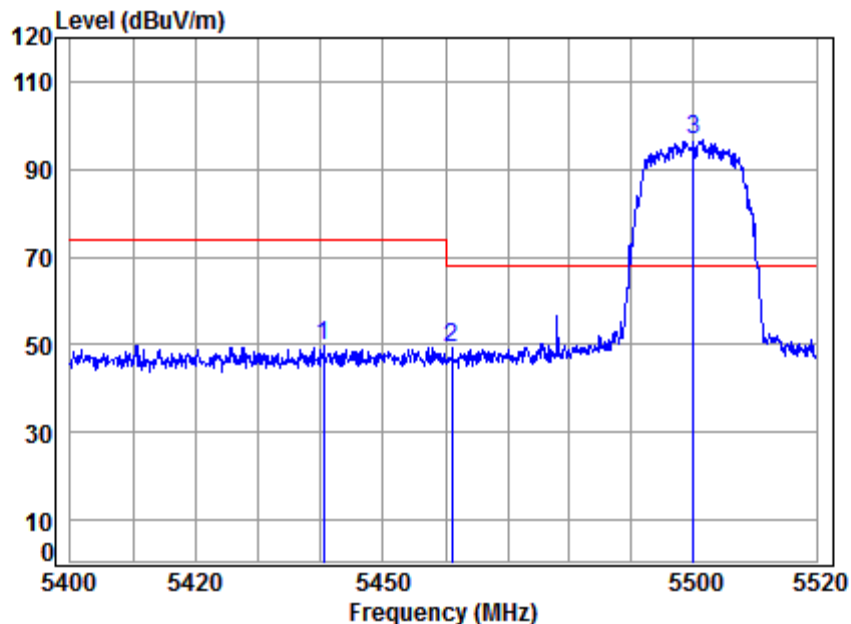
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11.7.3.19 11A20_100 ANT 1_Peak_Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 90027

Mode : 5500 Band edge

: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5440.504	8.76	34.55	42.09	48.70	49.92	74.00	-24.08	peak
2	5461.110	8.79	34.57	42.07	48.09	49.38	68.20	-18.82	peak
3 *	5500.000	8.85	34.60	42.03	95.17	96.59	68.20	28.39	peak

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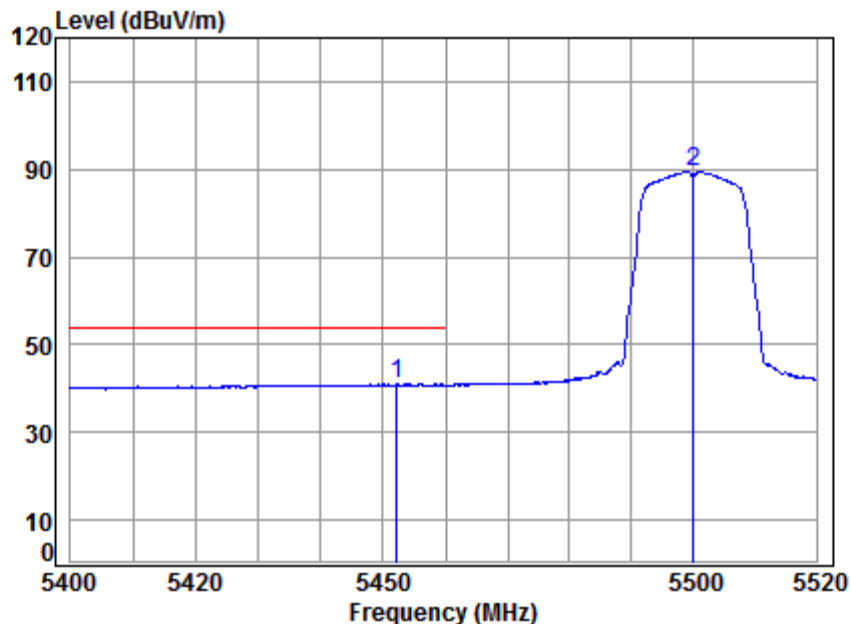
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11.7.3.20 11A20_100 ANT 1_Average_Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 90027

Mode : 5500 Band edge

: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5452.235	8.78	34.56	42.08	39.78	41.04	54.00	-12.96 Average
2	5500.000	8.85	34.60	42.03	88.04	89.46	-----	----- Average

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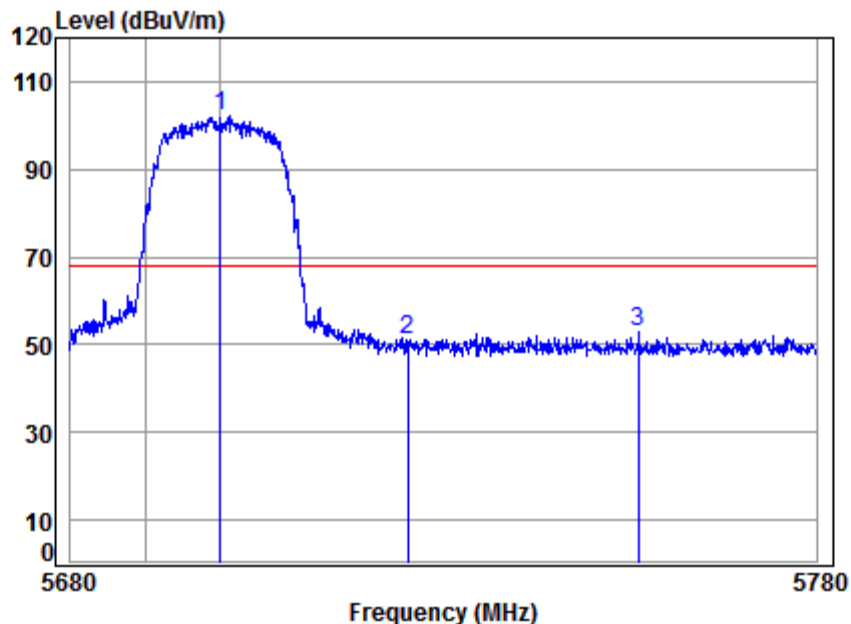
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11.7.3.21 11A20_140 ANT 1_Peak_Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 90027

Mode : 5700 Band edge

: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	5700.000	9.56	34.81	41.86	99.48	101.99	68.20	33.79	peak
2	5725.000	9.64	34.83	41.84	48.31	50.94	68.20	-17.26	peak
3	5756.042	9.75	34.86	41.81	50.08	52.88	68.20	-15.32	peak

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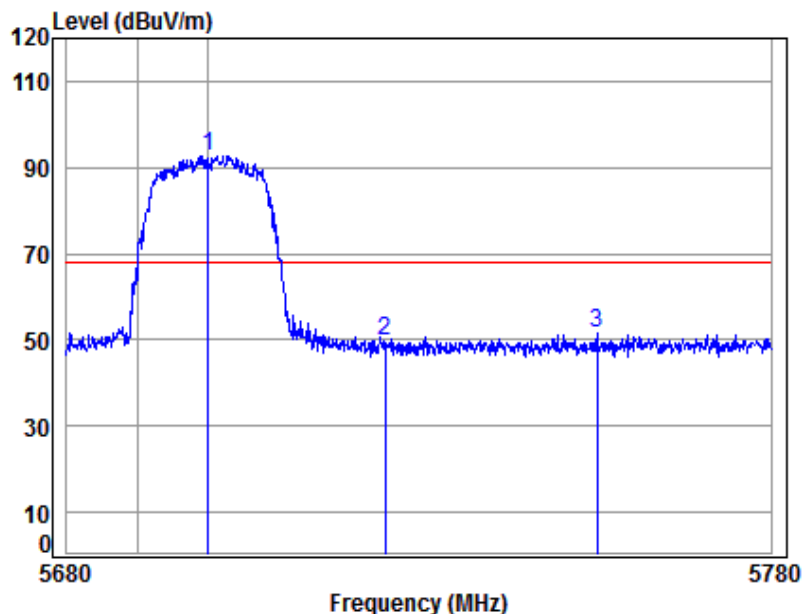
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11.7.3.22 11A20_140 ANT 1_Peak_Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 90027
Mode : 5700 Band edge
: 5G WIFI 11A

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5700.000	9.56	34.81	41.86	90.24	92.75	68.20	24.55	peak
2 5725.000	9.64	34.83	41.84	46.94	49.57	68.20	-18.63	peak
3 5755.138	9.75	34.86	41.81	48.60	51.40	68.20	-16.80	peak

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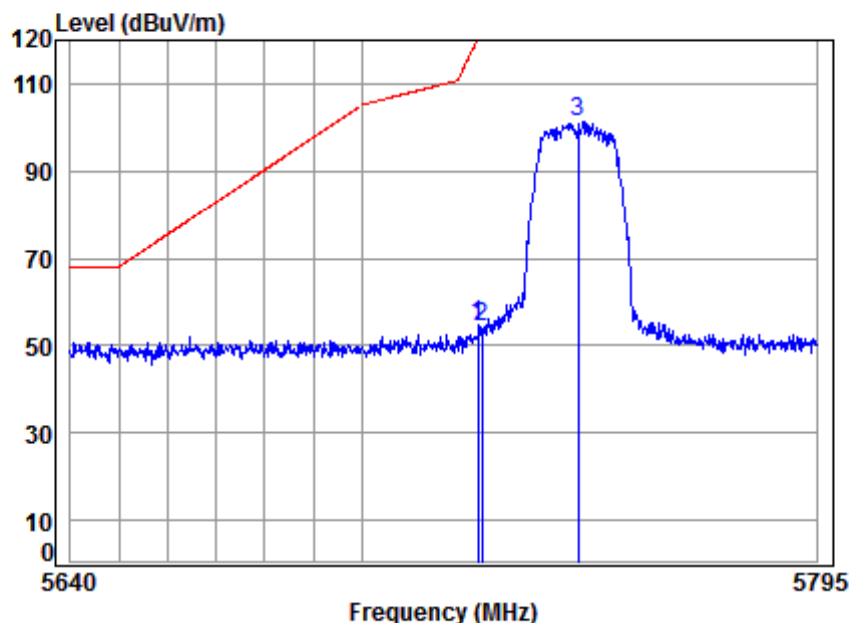
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11.7.3.23 11A20_149 ANT 1_Peak_Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 90027

Mode : 5745 Band edge

: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5724.264	9.64	34.83	41.84	51.90	54.53	120.52	-65.99	peak
2	5725.000	9.64	34.83	41.84	51.83	54.46	122.20	-67.74	peak
3	5745.000	9.71	34.85	41.82	98.45	101.19	125.20	-24.01	peak

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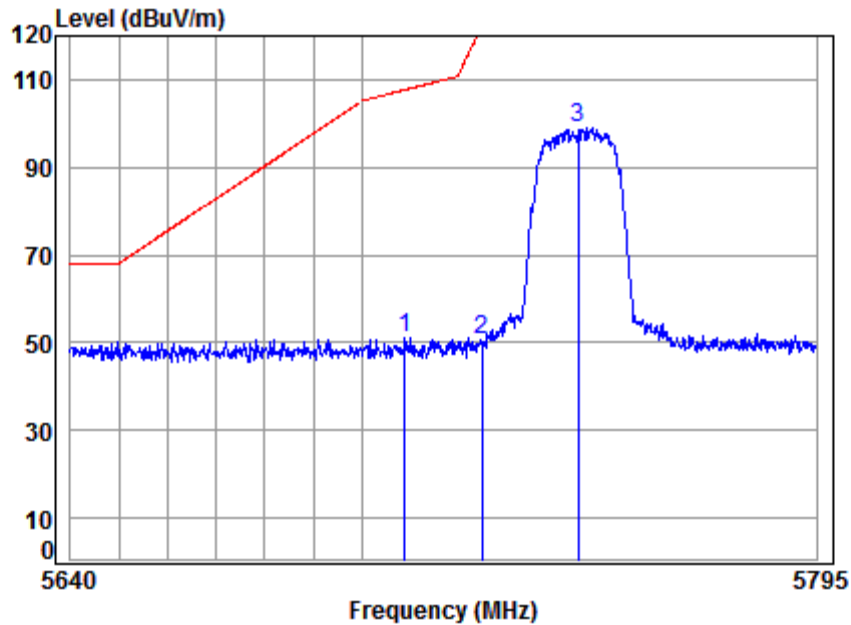
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11.7.3.24 11A20_149 ANT 1_Peak_Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 90027

Mode : 5745 Band edge

: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5708.920	9.59	34.81	41.85	48.70	51.25	107.70	-56.45 peak
2	5725.000	9.64	34.83	41.84	47.88	50.51	122.20	-71.69 peak
3	5745.000	9.71	34.85	41.82	96.13	98.87	125.20	-26.33 peak

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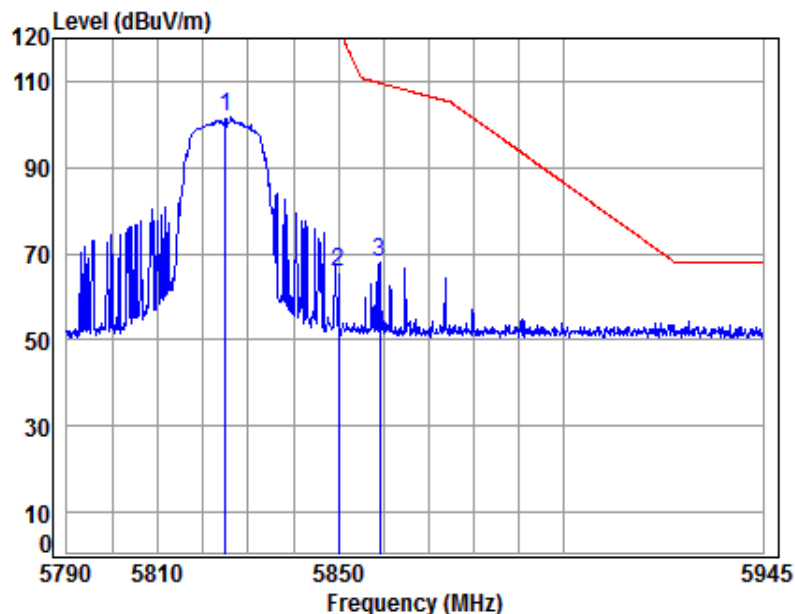
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11.7.3.25 11A20_165 ANT 1_Peak_Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No : 90027
 Mode : 5825 Band edge
 : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	9.99	34.93	41.75	98.54	101.71	125.20	-23.49	Peak
2	5850.000	10.07	34.95	41.73	62.55	65.84	125.20	-59.36	Peak
3	5859.089	10.10	34.96	41.72	64.79	68.13	109.66	-41.53	Peak

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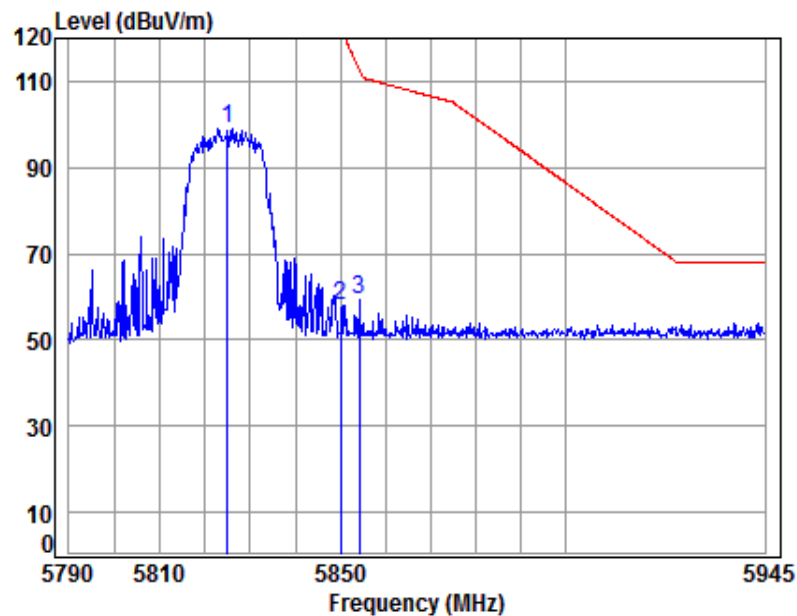
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11.7.3.26 11A20_165 ANT 1_Peak_Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 90027
 Mode : 5825 Band edge
 : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	9.98	34.93	41.75	95.76	98.92	125.20	-26.28	Peak
2	5850.000	10.07	34.96	41.73	54.79	58.09	119.82	-61.73	Peak
3	5854.292	10.08	34.96	41.73	55.96	59.27	112.41	-53.14	Peak

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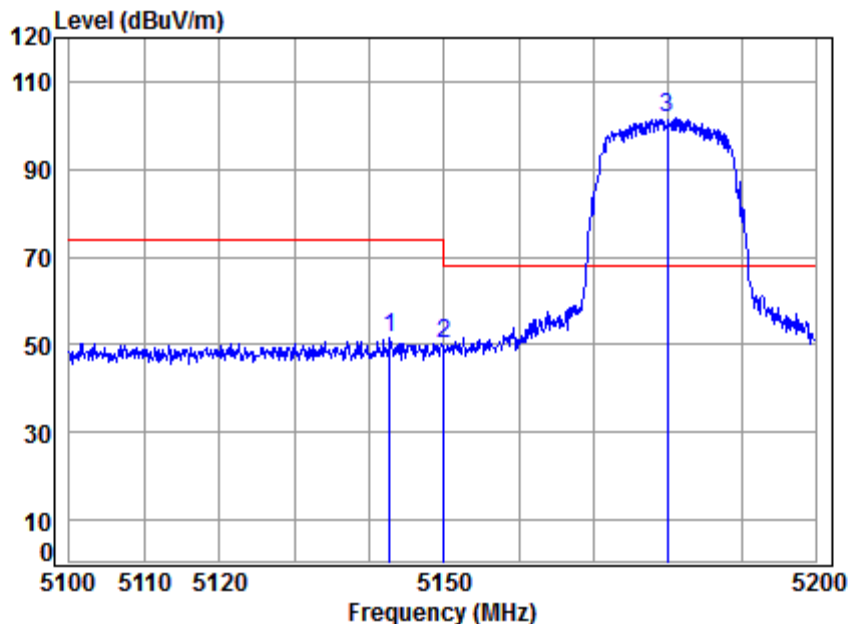
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11.7.3.27 11N20_36 ANT 1_Peak_Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 90027

Mode : 5180 Band edge

: 5G WIFI 11N 20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5142.762	8.31	34.32	42.36	51.44	51.71	74.00	-22.29	peak
2	5149.980	8.33	34.32	42.36	49.79	50.08	74.00	-23.92	peak
3 *	5180.000	8.37	34.35	42.33	101.23	101.62	68.20	33.42	peak

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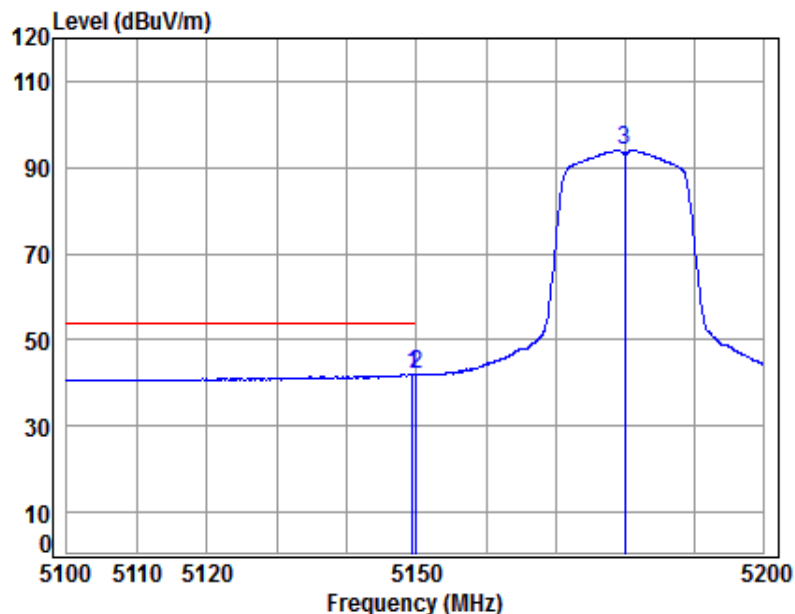
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11.7.3.28 11N20_36 ANT 1_Average_Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No : 90027
 Mode : 5180 Band edge
 : 5G WIFI 11N 20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.458	8.32	34.32	42.36	41.76	42.04	54.00	-11.96	Average
2	5149.980	8.33	34.32	42.36	41.79	42.08	54.00	-11.92	Average
3	5180.000	8.37	34.35	42.33	93.69	94.08	-----	-----	Average

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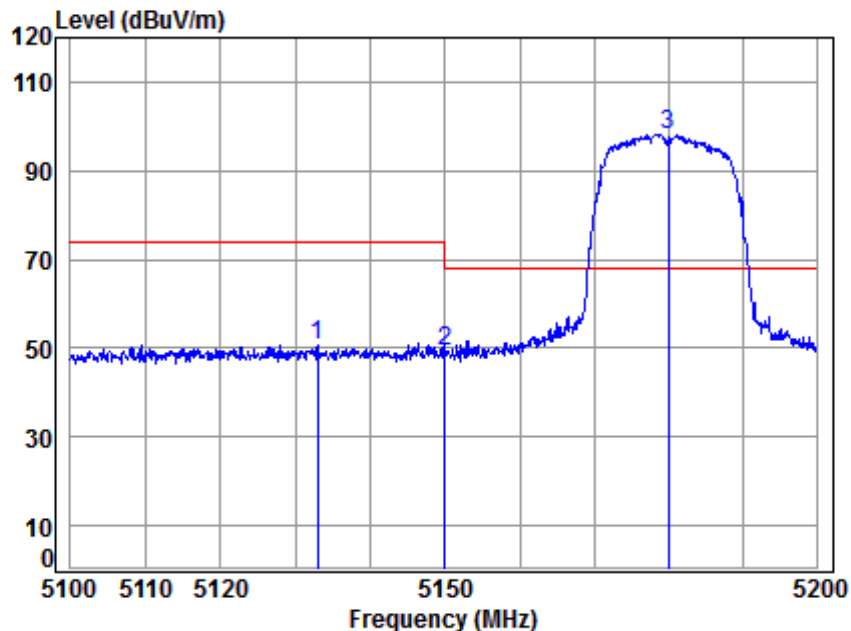
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11.7.3.29 11N20_36 ANT 1_Peak_Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 90027

Mode : 5180 Band edge

: 5G WIFI 11N 20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5132.885	8.30	34.31	42.37	50.59	50.83	74.00	-23.17	Peak
2	5150.000	8.33	34.32	42.36	48.87	49.16	74.00	-24.84	Peak
3 *	5180.000	8.37	34.35	42.33	97.92	98.31	68.20	30.11	Peak

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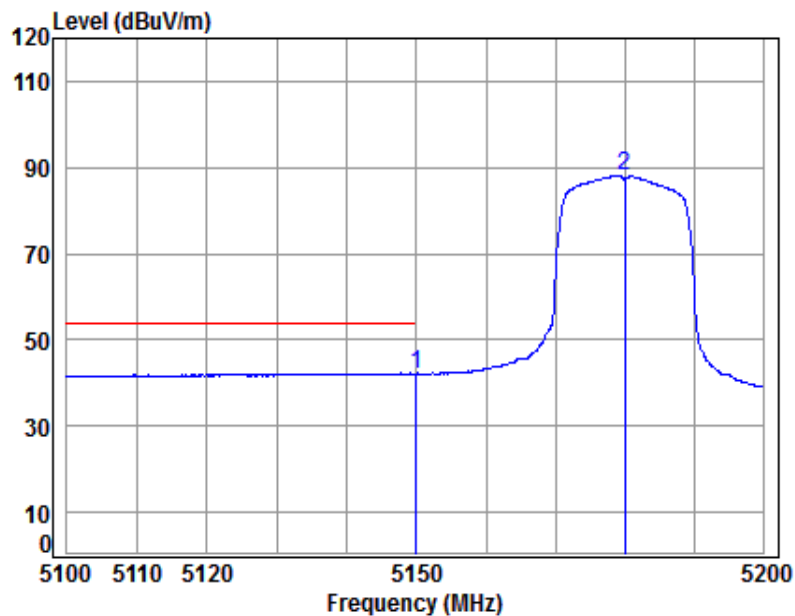
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11.7.3.30 11N20_36 ANT 1_Average_Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 90027
 Mode : 5180 Band edge
 : 5G WIFI 11N 20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5150.000	8.33	34.32	42.36	41.86	42.15	54.00	-11.85	Average
2	5180.000	8.37	34.35	42.33	87.90	88.29	-----	-----	Average

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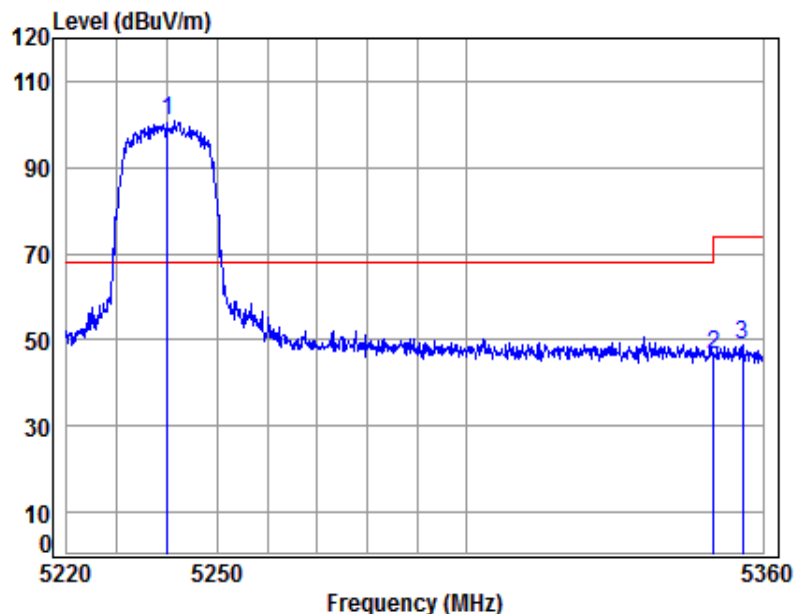
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11.7.3.31 11N20_48 ANT 1_Peak_Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No : 90027
 Mode : 5240 Band edge
 : 5G WIFI 11N20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5240.000	8.46	34.40	42.27	100.17	100.76	68.20	32.56	peak
2 5350.020	8.63	34.48	42.17	45.82	46.76	74.00	-27.24	peak
3 5355.888	8.64	34.49	42.16	47.81	48.78	74.00	-25.22	peak

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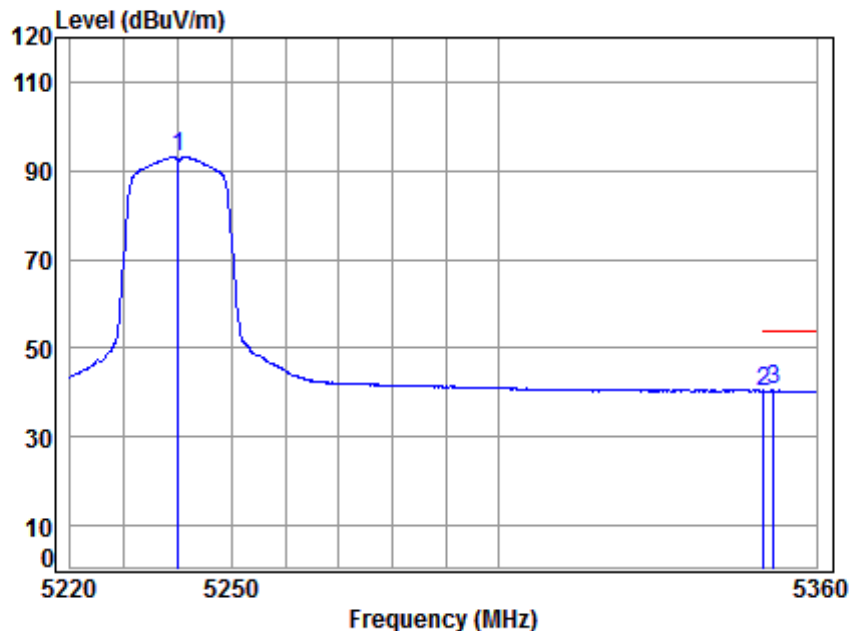
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11.7.3.32 11N20_48 ANT 1_Average_Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 90027

Mode : 5240 Band edge

: 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.000	8.46	34.40	42.27	92.62	93.21	-----	-----	Average
2	5350.020	8.63	34.48	42.17	39.43	40.37	54.00	-13.63	Average
3	5351.920	8.63	34.49	42.17	39.47	40.42	54.00	-13.58	Average

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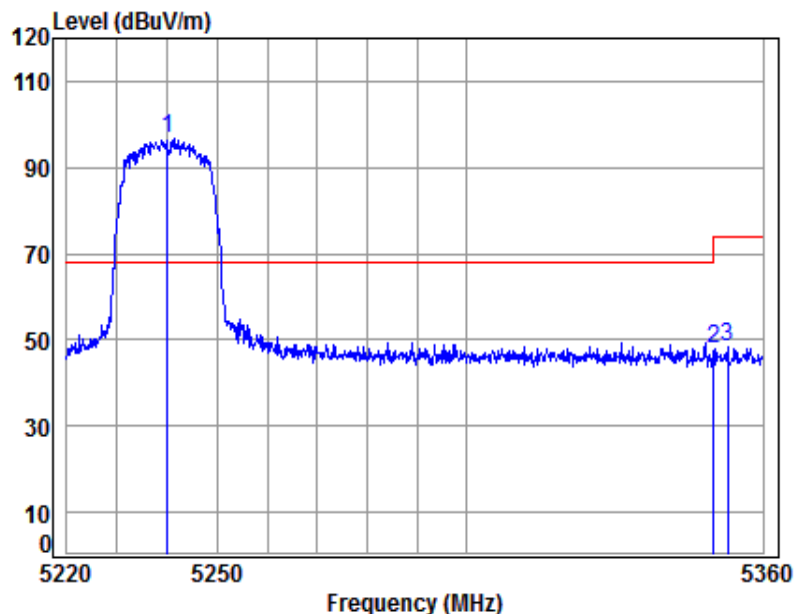
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11.7.3.33 11N20_48 ANT 1_Peak_Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 90027
 Mode : 5240 Band edge
 : 5G WIFI 11N20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5240.000	8.46	34.40	42.27	95.91	96.50	68.20	28.30	peak
2 5350.020	8.63	34.48	42.17	46.78	47.72	74.00	-26.28	peak
3 5352.770	8.63	34.49	42.17	47.21	48.16	74.00	-25.84	peak

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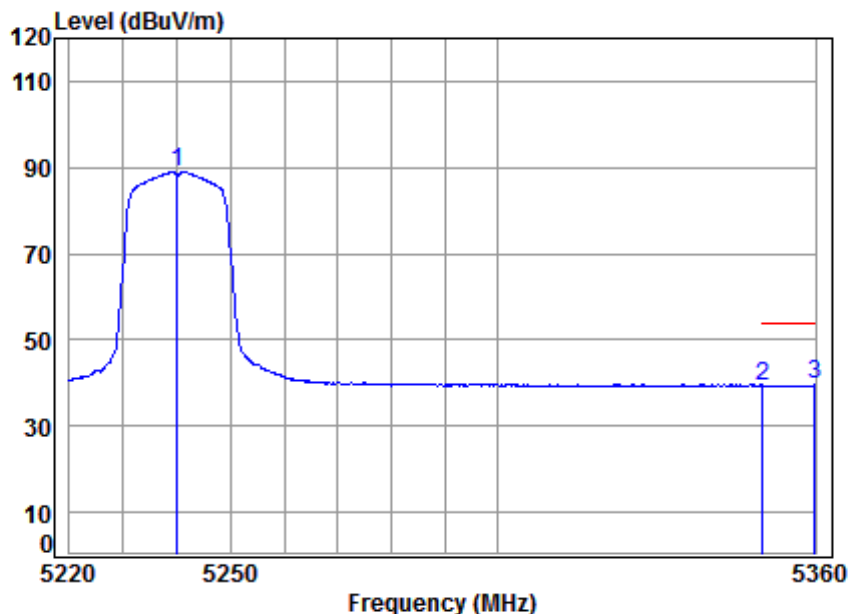
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11.7.3.34 11N20_48 ANT 1_Average_Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 90027

Mode : 5240 Band edge

: 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.000	8.46	34.40	42.27	88.39	88.98	-----	-----	Average
2	5350.020	8.63	34.48	42.17	38.46	39.40	54.00	-14.60	Average
3	5359.858	8.64	34.49	42.16	38.63	39.60	54.00	-14.40	Average

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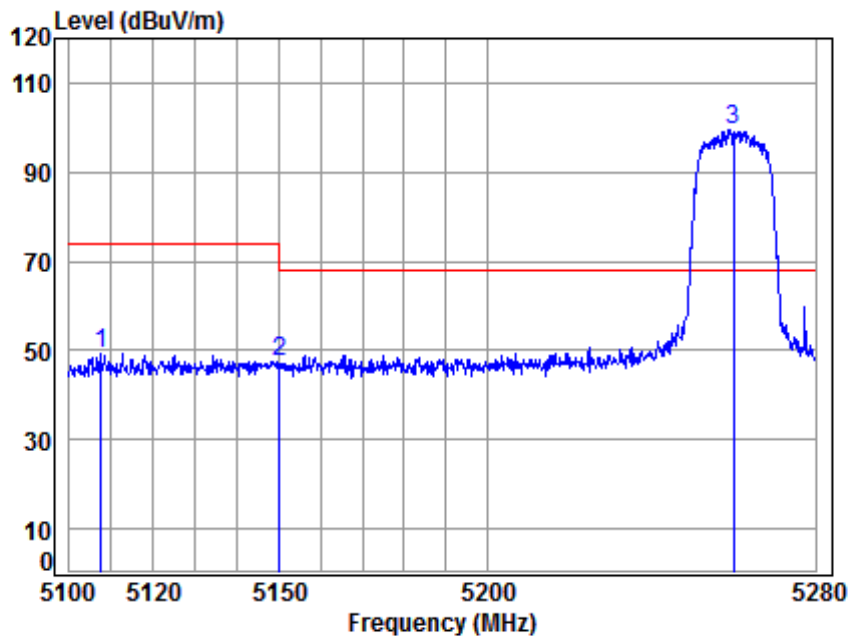
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11.7.3.35 11N20_52 ANT 1_Peak_Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 90027

Mode : 5260 Band edge

: 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5107.612	8.26	34.29	42.40	48.96	49.11	74.00	-24.89	peak
2	5149.980	8.33	34.32	42.36	46.95	47.24	74.00	-26.76	peak
3 *	5260.000	8.49	34.41	42.25	98.87	99.52	68.20	31.32	peak

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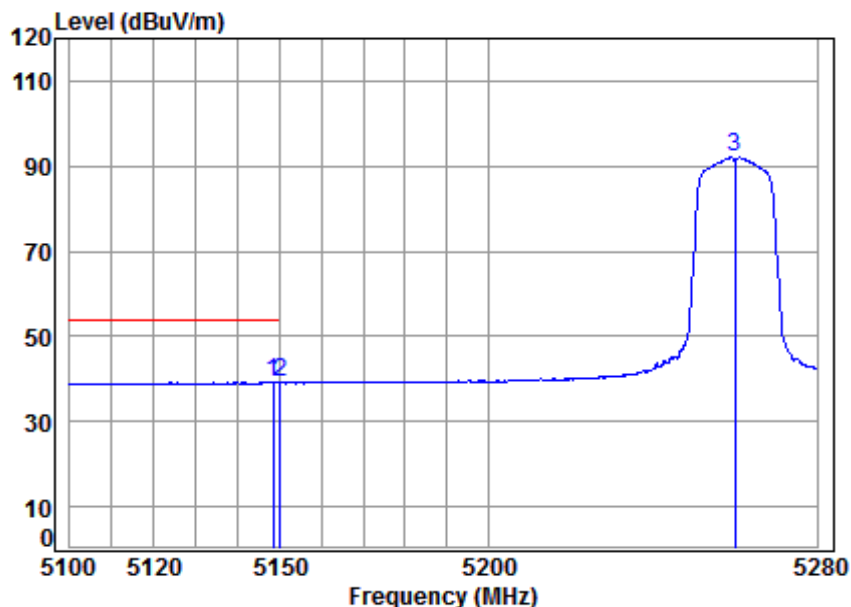
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11.7.3.36 11N20_52 ANT 1_Average_Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 90027

Mode : 5260 Band edge

: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5148.343	8.32	34.32	42.36	38.99	39.27	54.00	-14.73 Average
2	5149.980	8.33	34.32	42.36	39.00	39.29	54.00	-14.71 Average
3	5260.000	8.49	34.41	42.25	91.40	92.05	-----	----- Average

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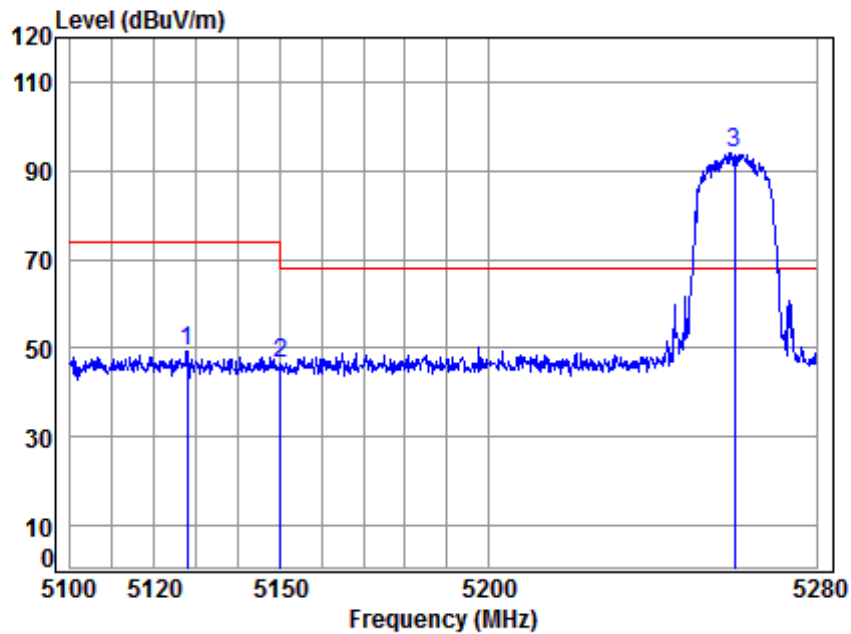
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11.7.3.37 11N20_52 ANT 1_Peak_Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 90027

Mode : 5260 Band edge

: 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5127.849	8.29	34.31	42.38	49.07	49.29	74.00	-24.71	peak
2	5149.980	8.33	34.32	42.36	46.21	46.50	74.00	-27.50	peak
3 *	5260.000	8.49	34.41	42.25	93.35	94.00	68.20	25.80	peak

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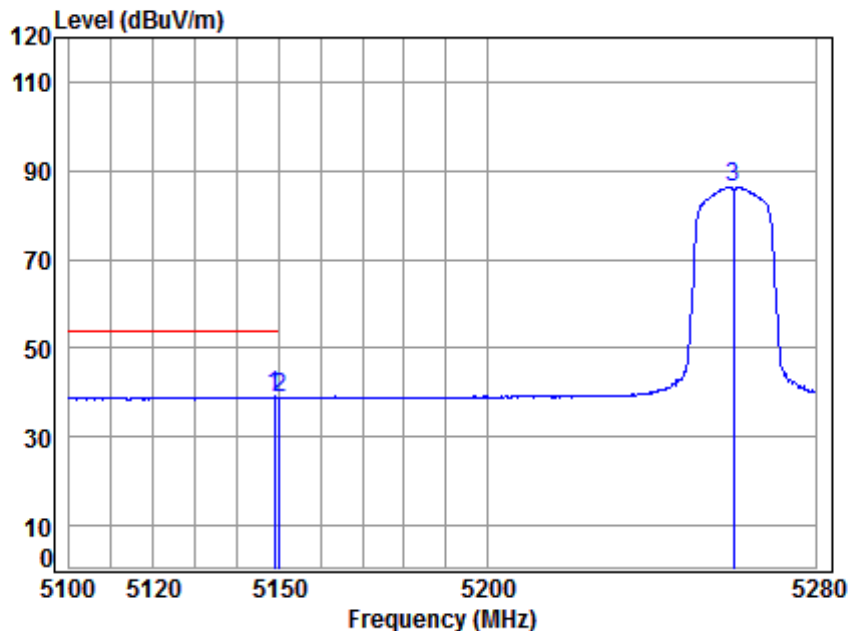
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11.7.3.38 11N20_52 ANT 1_Average_Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 90027

Mode : 5260 Band edge

: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.879	8.32	34.32	42.36	38.77	39.05	54.00	-14.95	Average
2	5149.980	8.33	34.32	42.36	38.64	38.93	54.00	-15.07	Average
3	5260.000	8.49	34.41	42.25	85.76	86.41	-----	-----	Average

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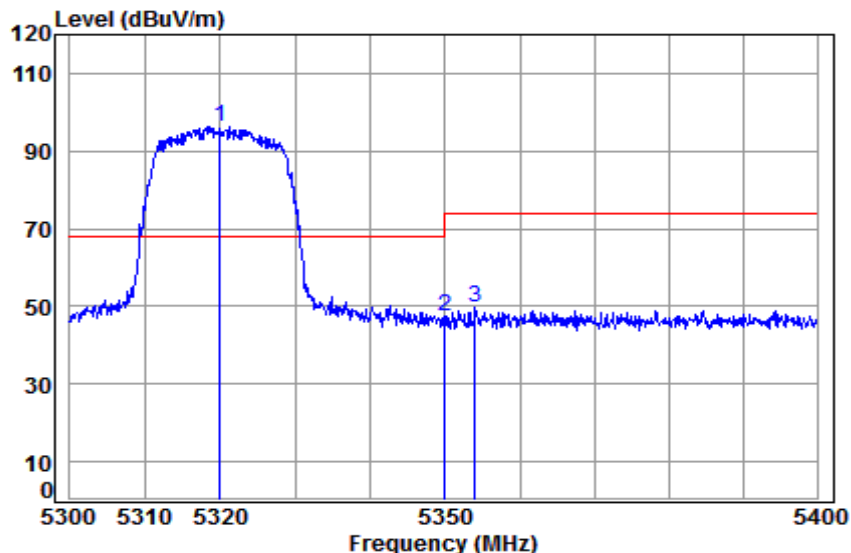
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11.7.3.39 11N20_64 ANT 1_Peak_Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 90027
Mode : 5320 Band edge
: 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	5320.000	8.58	34.46	42.20	95.46	96.30	68.20	28.10	peak
2	5350.020	8.63	34.48	42.17	46.51	47.45	74.00	-26.55	peak
3	5353.968	8.64	34.49	42.17	48.93	49.89	74.00	-24.11	peak

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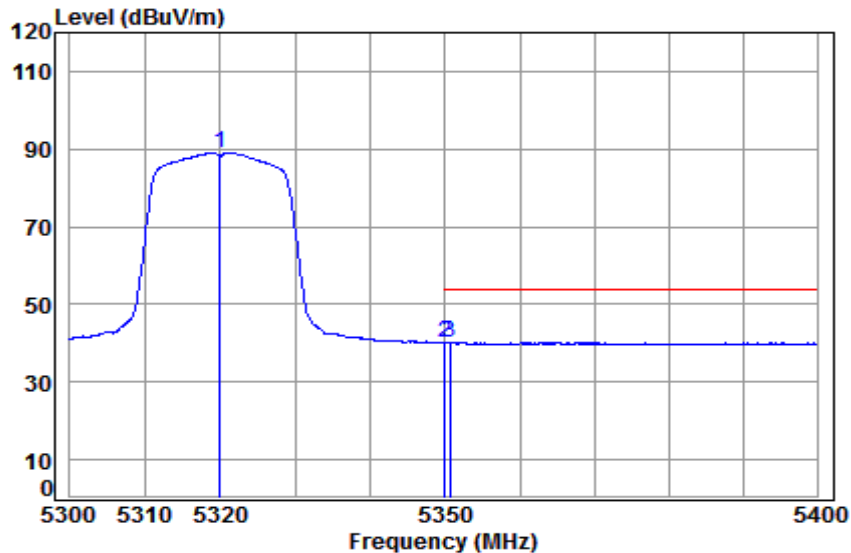
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11.7.3.40 11N20_64 ANT 1_Average_Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No : 90027
 Mode : 5320 Band edge
 : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	8.58	34.46	42.20	88.32	89.16	-----	-----	Average
2	5350.020	8.63	34.48	42.17	39.16	40.10	54.00	-13.90	Average
3	5350.667	8.63	34.48	42.17	39.28	40.22	54.00	-13.78	Average

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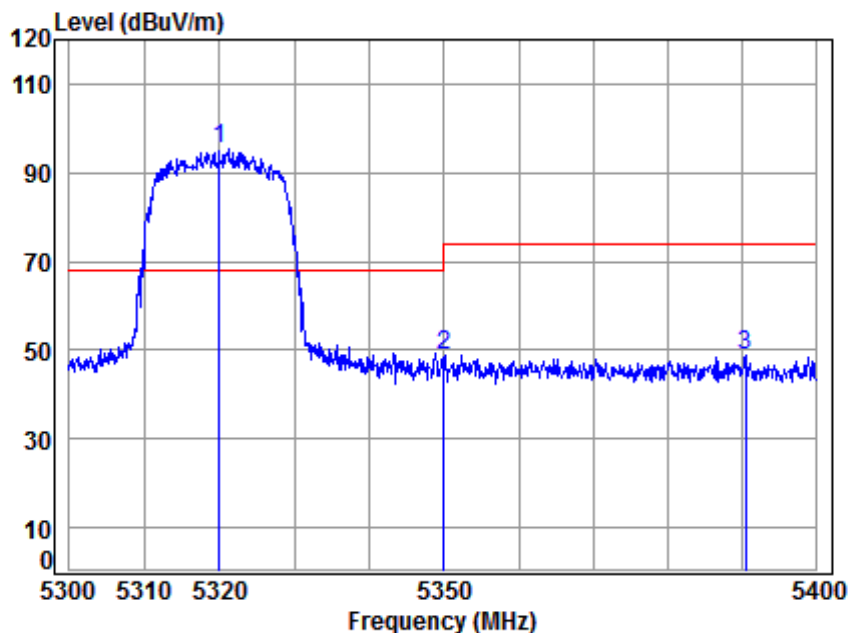
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11.7.3.41 11N20_64 ANT 1_Peak_Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 90027

Mode : 5320 Band edge

: 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	5320.000	8.58	34.46	42.20	94.40	95.24	68.20	27.04	peak
2	5350.020	8.63	34.48	42.17	47.71	48.65	74.00	-25.35	peak
3	5390.520	8.69	34.52	42.13	47.95	49.03	74.00	-24.97	peak

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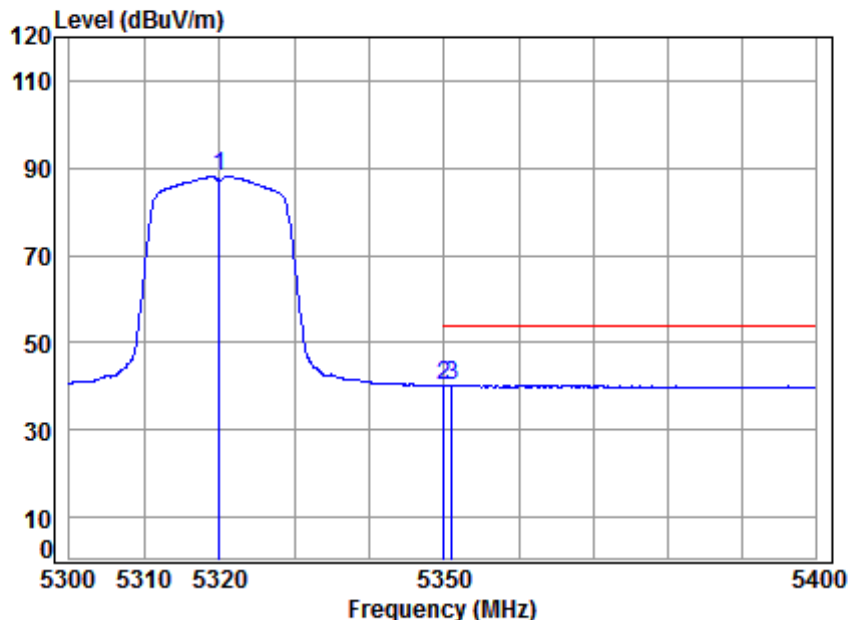
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11.7.3.42 11N20_64 ANT 1_Average_Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 90027

Mode : 5320 Band edge

: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	8.58	34.46	42.20	87.28	88.12	-----	-----	Average
2	5350.020	8.63	34.48	42.17	39.26	40.20	54.00	-13.80	Average
3	5351.066	8.63	34.48	42.17	39.28	40.22	54.00	-13.78	Average

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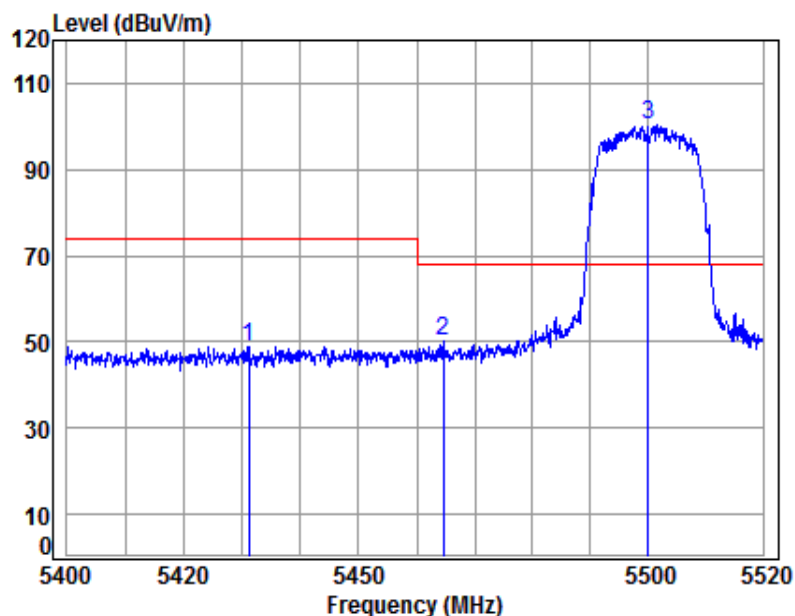
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11.7.3.43 11N20_100 ANT 1_Peak_Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No : 90027
 Mode : 5500 Band edge
 : 5G WIFI 11N20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5431.066	8.75	34.55	42.10	47.70	48.90	74.00	-25.10 peak
2	5464.592	8.80	34.57	42.07	48.82	50.12	68.20	-18.08 peak
3 *	5500.000	8.85	34.60	42.03	98.80	100.22	68.20	32.02 peak

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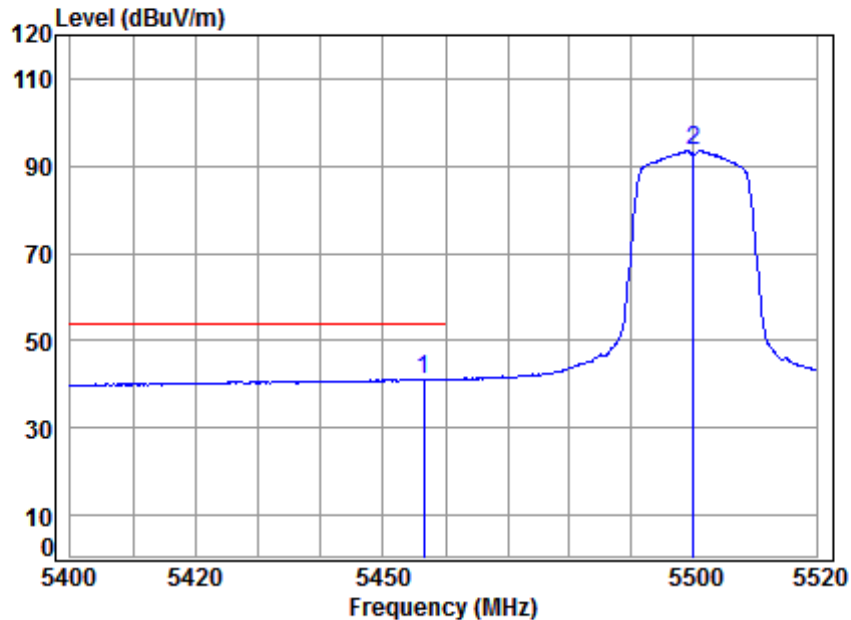
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11.7.3.44 11N20_100 ANT 1_Average_Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 90027

Mode : 5500 Band edge

: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5456.551	8.79	34.57	42.07	39.85	41.14	54.00	-12.86	Average
2	5500.000	8.85	34.60	42.03	92.00	93.42	-----	-----	Average

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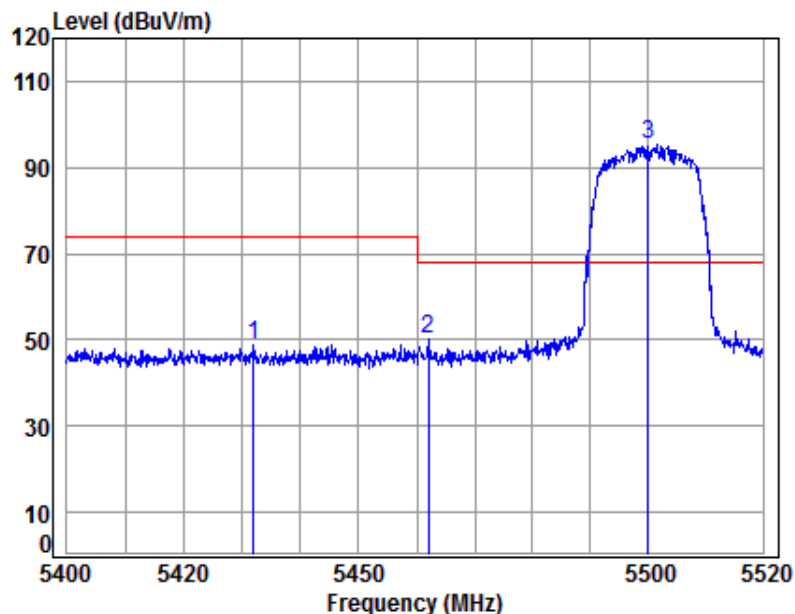
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11.7.3.45 11N20_100 ANT 1_Peak_Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 90027
Mode : 5500 Band edge
: 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5431.902	8.75	34.55	42.09	47.79	49.00	74.00	-25.00	peak
2	5461.951	8.79	34.57	42.07	48.80	50.09	68.20	-18.11	peak
3 *	5500.000	8.85	34.60	42.03	93.93	95.35	68.20	27.15	peak

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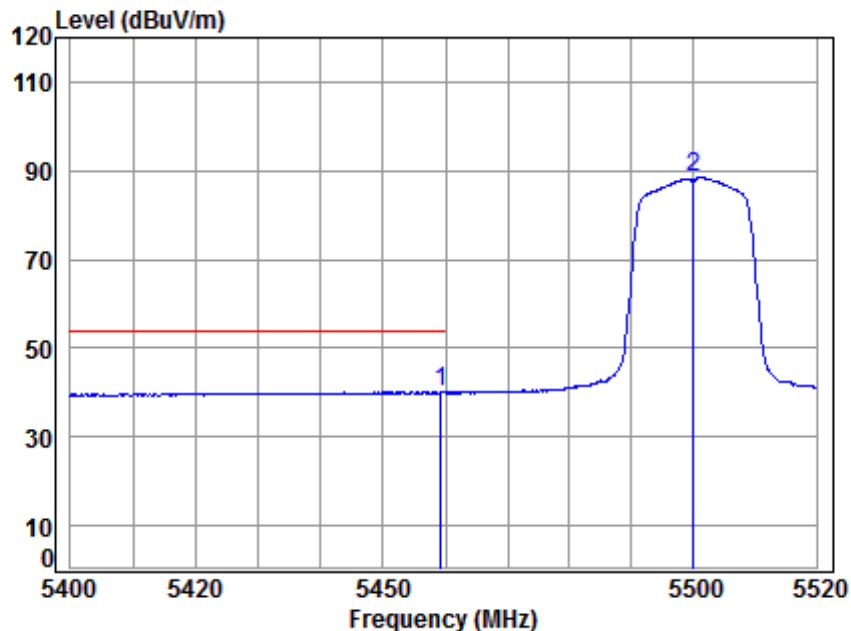
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11.7.3.46 11N20_100 ANT 1_Average_Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 90027
Mode : 5500 Band edge
: 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5459.311	8.79	34.57	42.07	38.84	40.13	54.00	-13.87	Average
2	5500.000	8.85	34.60	42.03	87.05	88.47	-----	-----	Average

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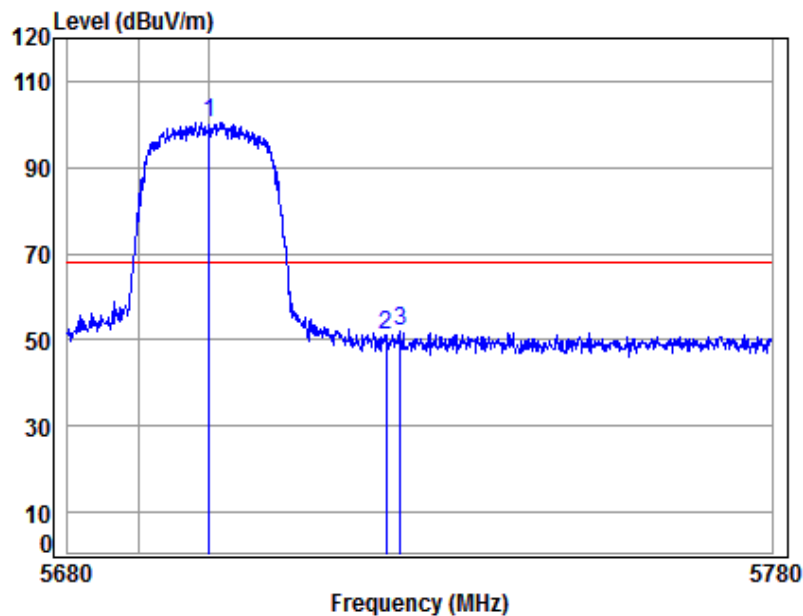
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11.7.3.47 11N20_140 ANT 1_Peak_Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 90027
Mode : 5700 Band edge
: 5G WIFI 11N20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5700.000	9.56	34.81	41.86	98.01	100.52	68.20	32.32	peak
2 5725.000	9.64	34.83	41.84	48.35	50.98	68.20	-17.22	peak
3 5726.982	9.65	34.83	41.84	49.17	51.81	68.20	-16.39	peak

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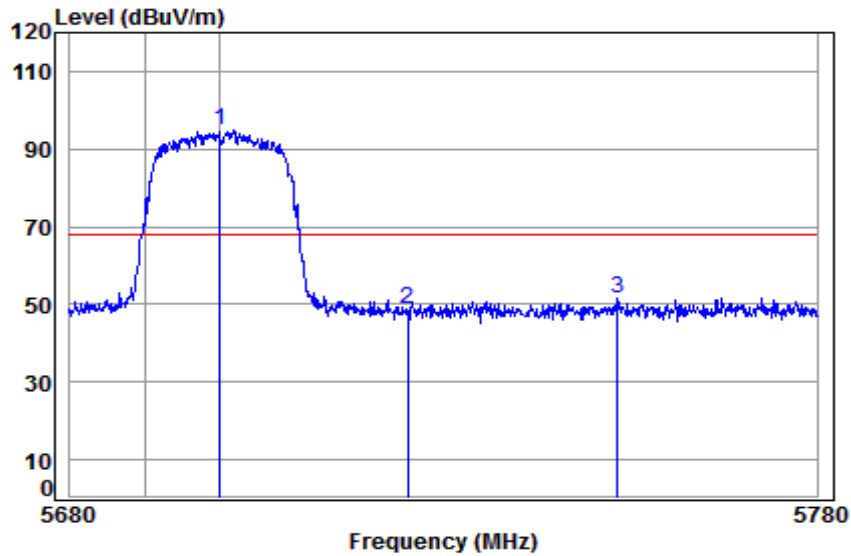
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11.7.3.48 11N20_140 ANT 1_Peak_Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 90027
Mode : 5700 Band edge
: 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	5700.000	9.56	34.81	41.86	92.22	94.73	68.20	26.53	peak
2	5725.000	9.64	34.83	41.84	46.36	48.99	68.20	-19.21	peak
3	5753.129	9.74	34.86	41.81	48.68	51.47	68.20	-16.73	peak

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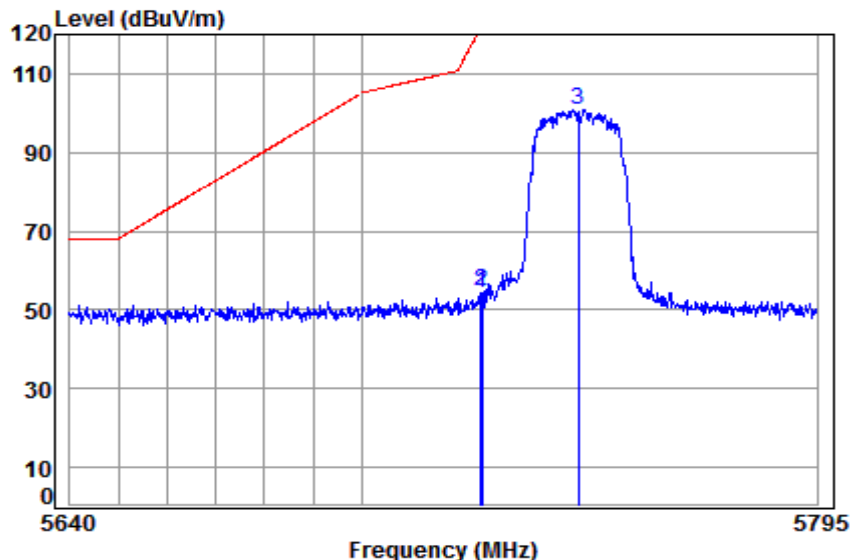
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11.7.3.49 11N20_149 ANT 1_Peak_Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 90027
Mode : 5745 Band edge
: 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5724.885	9.64	34.83	41.84	51.49	54.12	121.94	-67.82	peak
2	5725.000	9.64	34.83	41.84	52.13	54.76	122.20	-67.44	peak
3	5745.000	9.71	34.85	41.82	98.18	100.92	125.20	-24.28	peak

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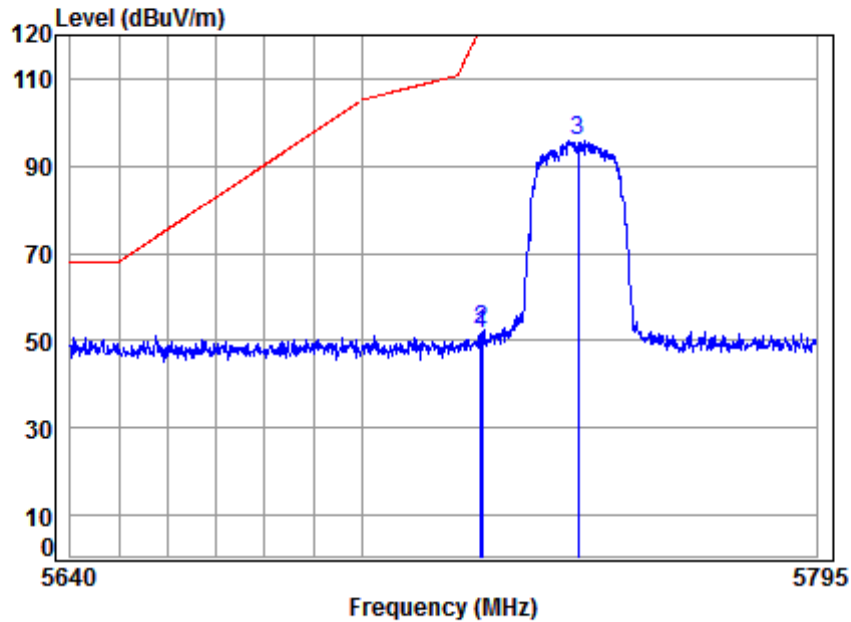
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11.7.3.50 11N20_149 ANT 1_Peak_Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 90027
Mode : 5745 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5724.730	9.64	34.83	41.84	48.71	51.34	121.58	-70.24	peak
2	5725.000	9.64	34.83	41.84	49.63	52.26	122.20	-69.94	peak
3	5745.000	9.71	34.85	41.82	93.13	95.87	125.20	-29.33	peak

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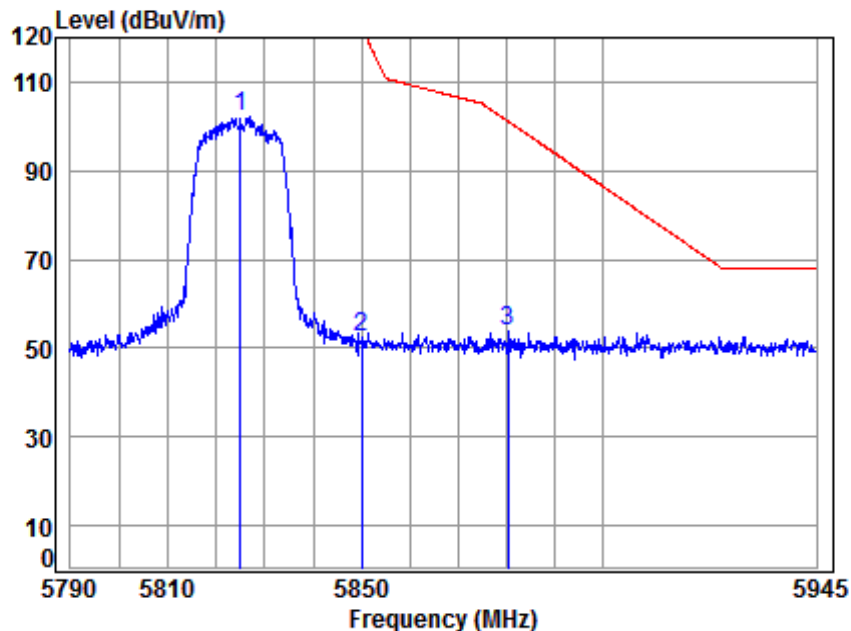
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11.7.3.51 11N20_165 ANT 1_Peak_Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 90027

Mode : 5825 Band edge

: 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	9.98	34.93	41.75	98.83	101.99	125.20	-23.21	peak
2	5850.000	10.07	34.95	41.73	48.95	52.24	122.20	-69.96	peak
3	5880.488	10.17	34.98	41.71	50.19	53.63	101.14	-47.51	peak

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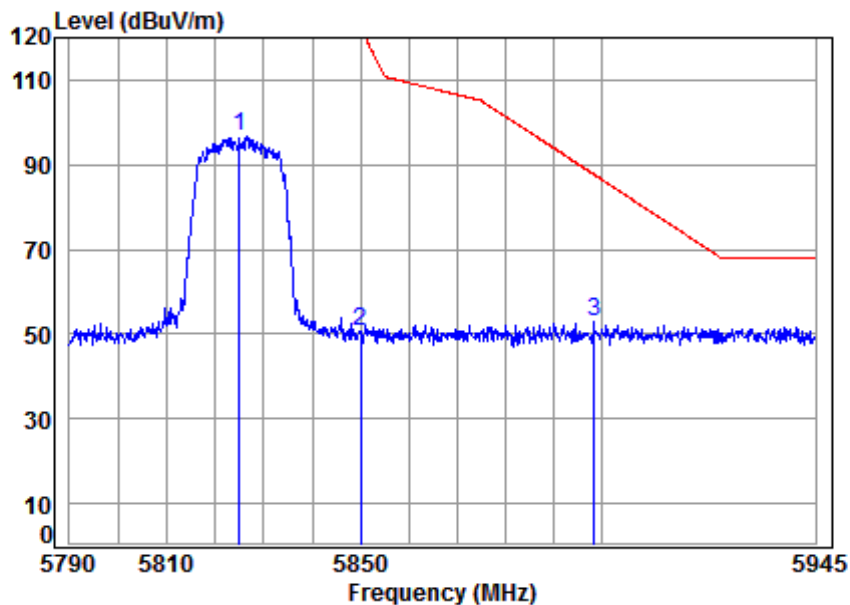
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11.7.3.52 11N20_165 ANT 1_Peak_Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 90027

Mode : 5825 Band edge

: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5825.000	9.98	34.93	41.75	93.67	96.83	125.20	-28.37 peak
2	5850.000	10.07	34.95	41.73	47.33	50.62	122.20	-71.58 peak
3	5898.537	10.23	35.00	41.69	49.21	52.75	87.78	-35.03 peak

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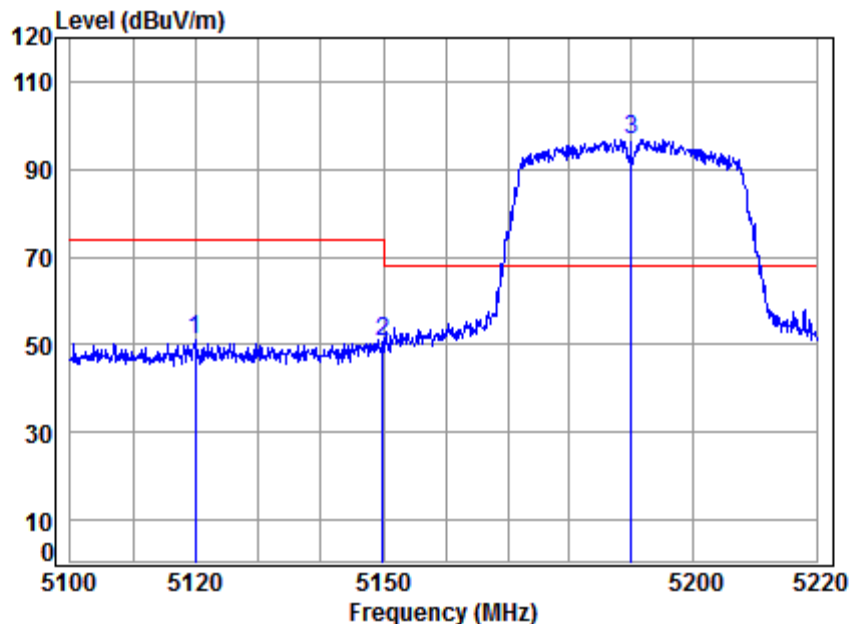
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11.7.3.53 11N40_38 ANT 1_ Peak _ Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 90027

Mode : 5190 Band edge

: 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5119.965	8.28	34.30	42.38	50.82	51.02	74.00	-22.98	peak
2	5149.980	8.33	34.32	42.36	50.38	50.67	74.00	-23.33	peak
3 *	5190.000	8.39	34.36	42.32	96.44	96.87	68.20	28.67	peak

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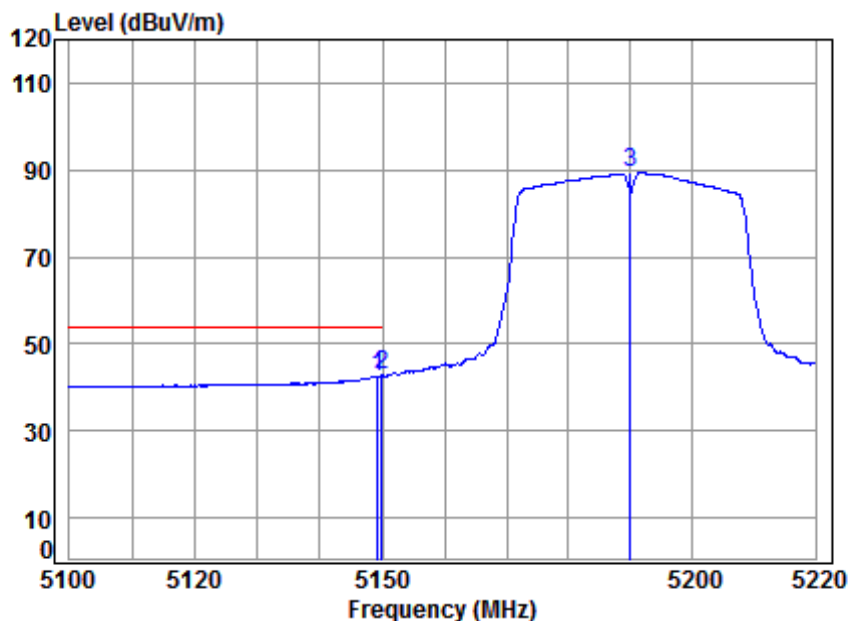
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11.7.3.54 11N40_38 ANT 1_Average_Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 90027

Mode : 5190 Band edge

: 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.222	8.32	34.32	42.36	42.26	42.54	54.00	-11.46	Average
2	5149.980	8.33	34.32	42.36	42.55	42.84	54.00	-11.16	Average
3	5190.000	8.39	34.36	42.32	88.87	89.30	-----	-----	Average

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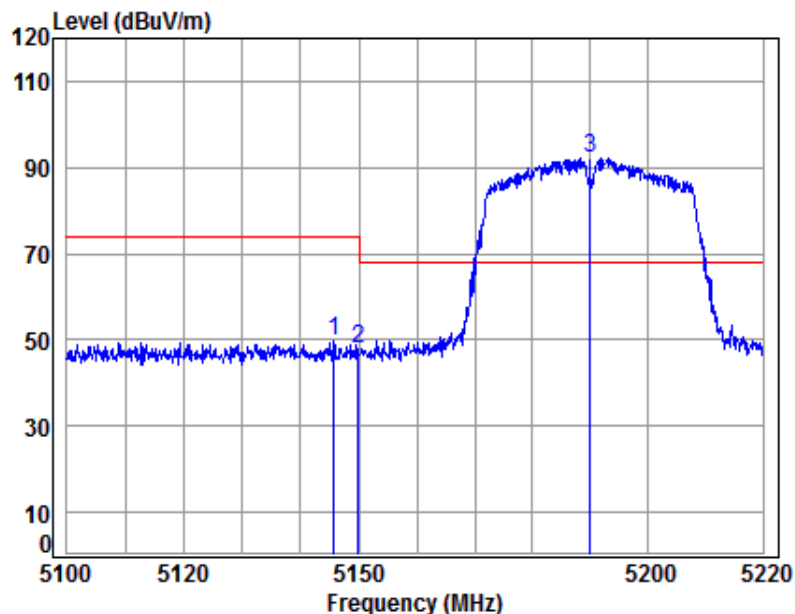
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11.7.3.55 11N40_38 ANT 1_Peak_Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 90027
Mode : 5190 Band edge
: 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5145.750	8.32	34.32	42.36	49.57	49.85	74.00	-24.15	peak
2	5149.980	8.33	34.32	42.36	47.59	47.88	74.00	-26.12	peak
3 *	5190.000	8.39	34.36	42.32	91.59	92.02	68.20	23.82	peak

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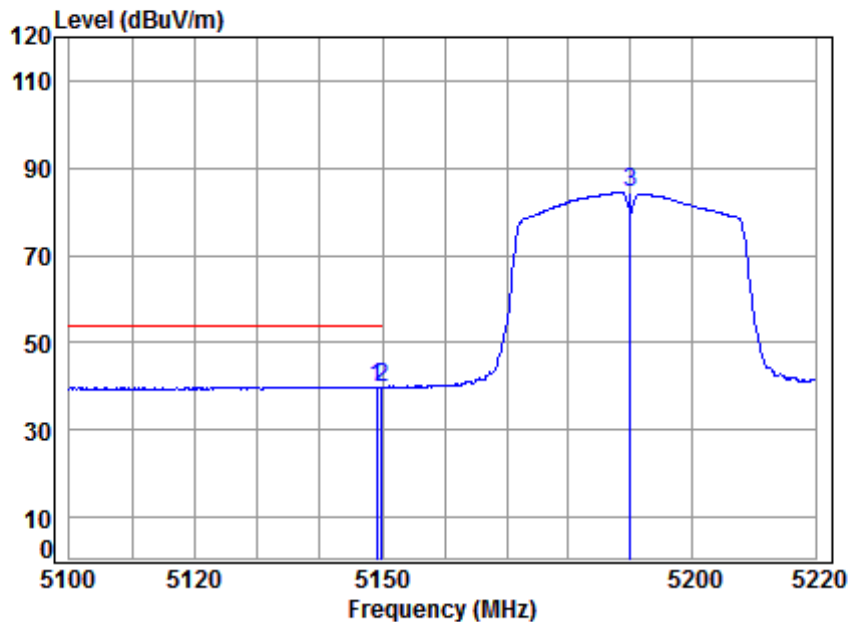
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11.7.3.56 11N40_38 ANT 1_Average_Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 90027

Mode : 5190 Band edge

: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.102	8.32	34.32	42.36	39.61	39.89	54.00	-14.11	Average
2	5149.980	8.33	34.32	42.36	39.46	39.75	54.00	-14.25	Average
3	5190.000	8.39	34.36	42.32	83.93	84.36	-----	-----	Average

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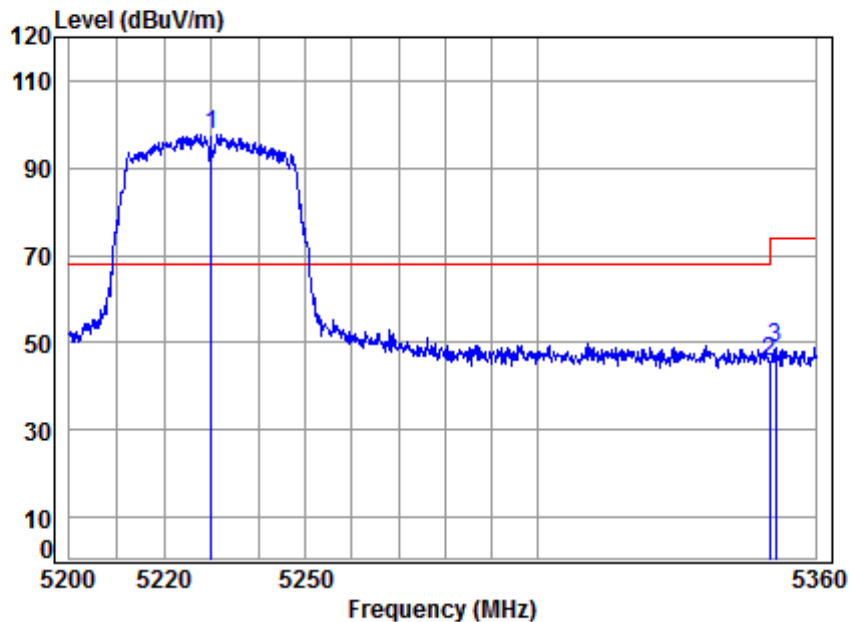
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11.7.3.57 11N40_46 ANT 1_ Peak_Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 90027

Mode : 5230 Band edge

: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	5230.000	8.45	34.39	42.28	97.06	97.62	68.20	29.42	peak
2	5350.020	8.63	34.48	42.17	44.77	45.71	74.00	-28.29	peak
3	5351.398	8.63	34.49	42.17	47.72	48.67	74.00	-25.33	peak

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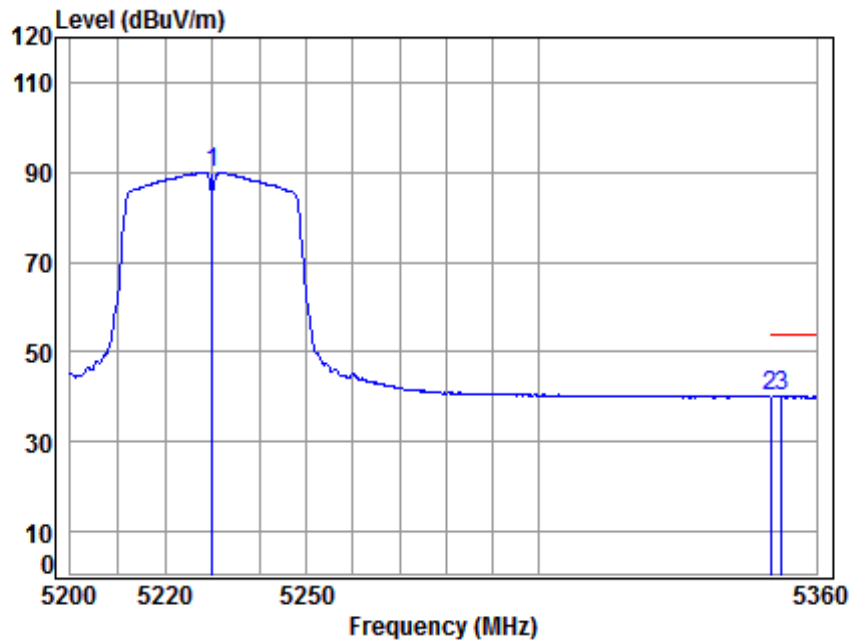
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11.7.3.58 11N40_46 ANT 1_Average_Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 90027
Mode : 5230 Band edge
: 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5230.000	8.45	34.39	42.28	89.53	90.09	-----	-----	Average
2	5350.020	8.63	34.48	42.17	39.13	40.07	54.00	-13.93	Average
3	5352.533	8.63	34.49	42.17	39.30	40.25	54.00	-13.75	Average

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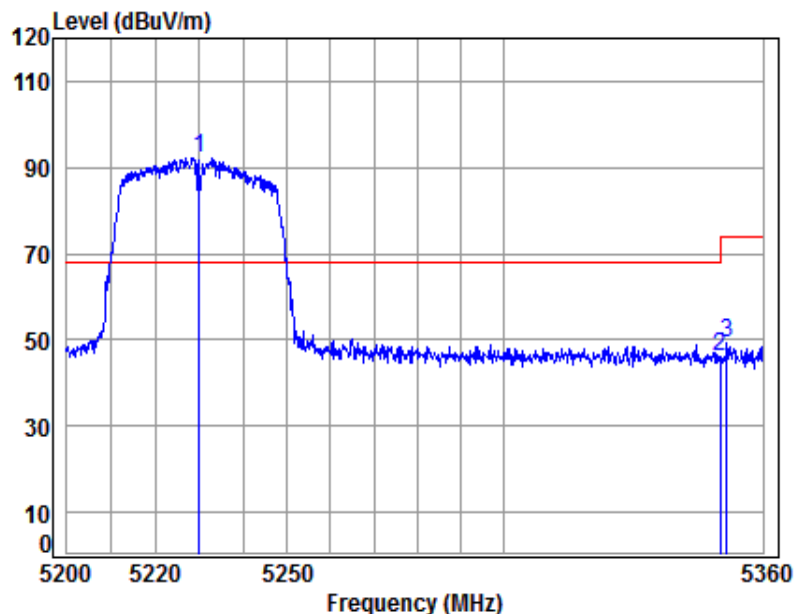
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11.7.3.59 11N40_46 ANT 1_Peak_Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 90027
Mode : 5230 Band edge
: 5G WIFI 11N40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5230.000	8.45	34.39	42.28	91.63	92.19	68.20	23.99	peak
2 5350.020	8.63	34.48	42.17	44.98	45.92	74.00	-28.08	peak
3 5351.560	8.63	34.49	42.17	48.18	49.13	74.00	-24.87	peak

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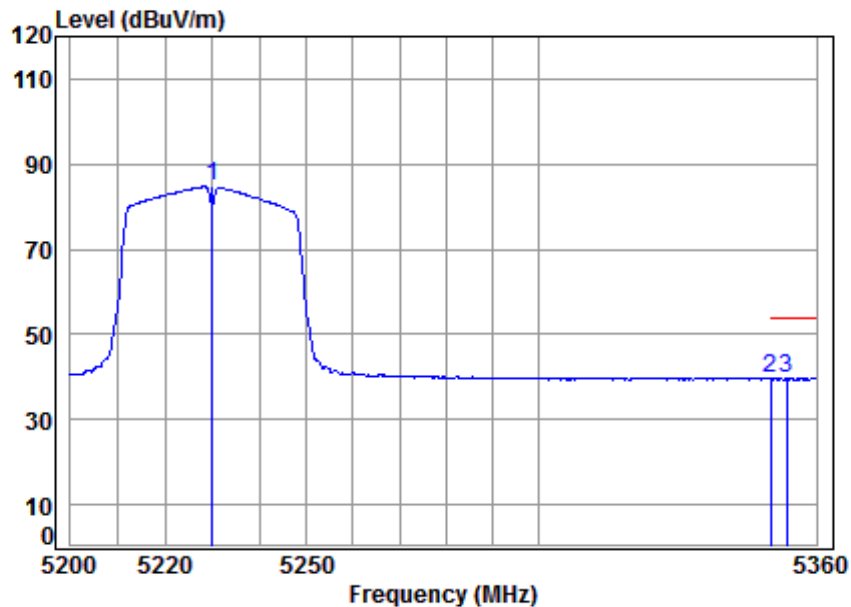
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11.7.3.60 11N40_46 ANT 1_Average_Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 90027

Mode : 5230 Band edge

: 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5230.000	8.45	34.39	42.28	84.13	84.69	-----	-----	Average
2	5350.020	8.63	34.48	42.17	38.70	39.64	54.00	-14.36	Average
3	5353.506	8.63	34.49	42.17	38.70	39.65	54.00	-14.35	Average

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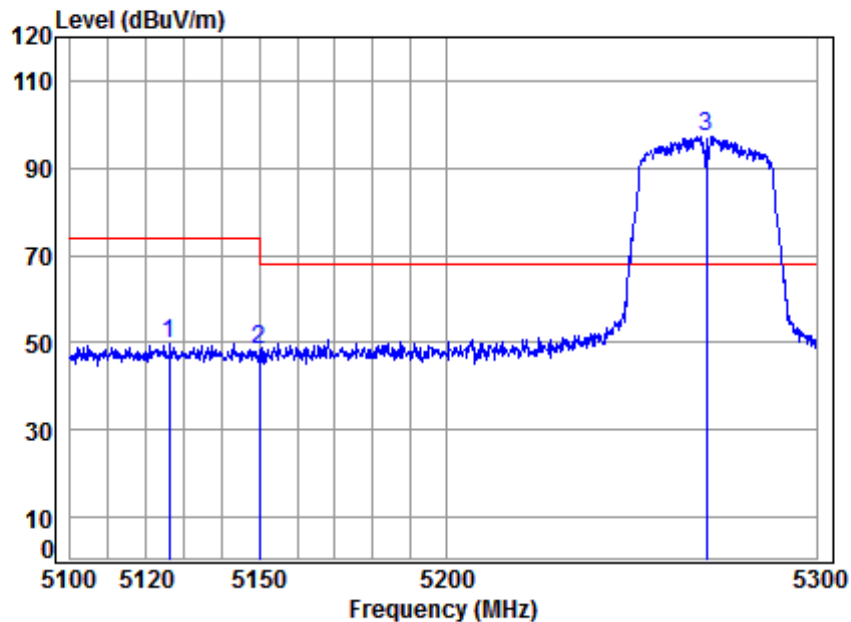
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11.7.3.61 11N40_54 ANT 1_ Peak_Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 90027

Mode : 5270 Band edge

: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5126.159	8.29	34.30	42.38	49.48	49.69	74.00	-24.31	peak
2	5149.980	8.33	34.32	42.36	47.96	48.25	74.00	-25.75	peak
3 *	5270.000	8.51	34.42	42.24	96.55	97.24	68.20	29.04	peak

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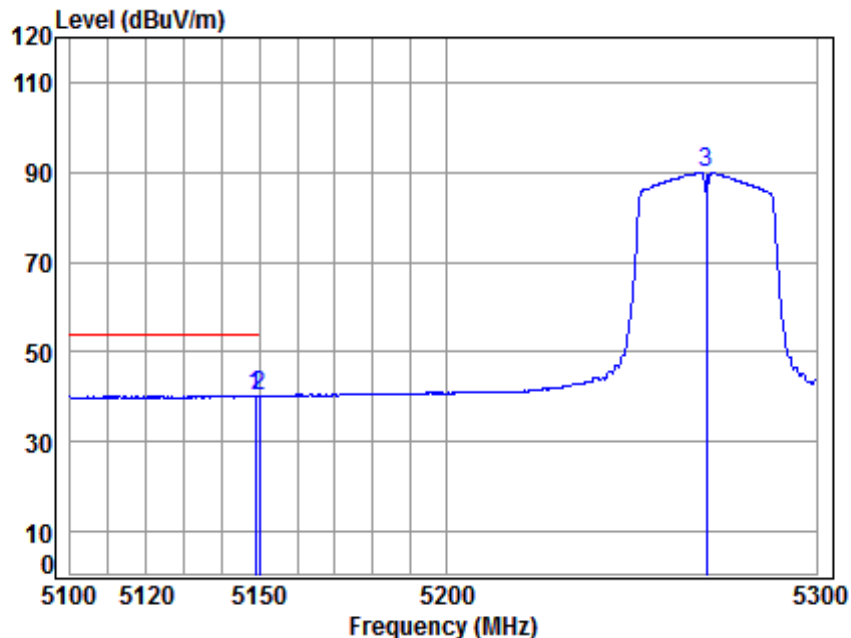
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11.7.3.62 11N40_54 ANT 1_Average_Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 90027

Mode : 5270 Band edge

: 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.885	8.32	34.32	42.36	40.09	40.37	54.00	-13.63	Average
2	5149.980	8.33	34.32	42.36	39.90	40.19	54.00	-13.81	Average
3	5270.000	8.51	34.42	42.24	89.18	89.87	-----	-----	Average

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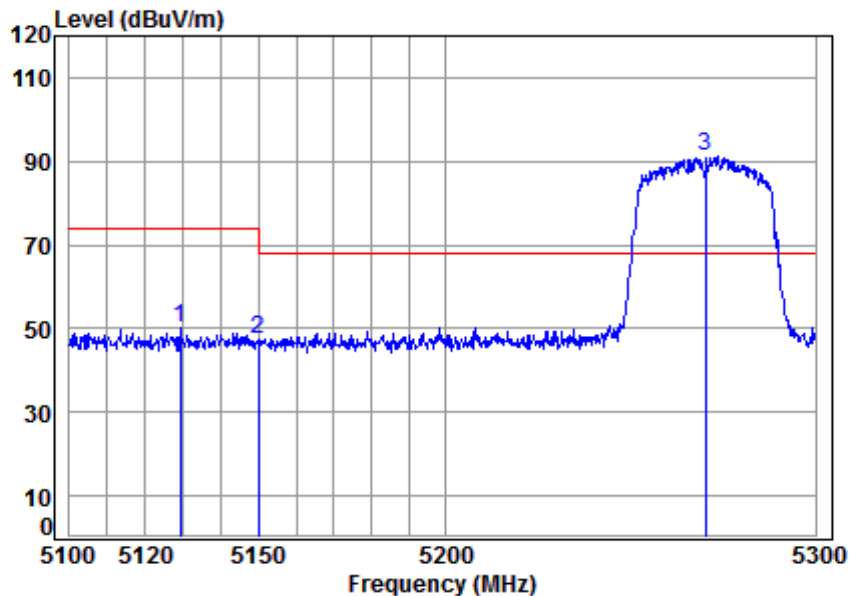
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11.7.3.63 11N40_54 ANT 1_Peak_Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 90027

Mode : 5270 Band edge

: 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5129.117	8.29	34.31	42.38	49.86	50.08	74.00	-23.92	peak
2	5149.980	8.33	34.32	42.36	46.99	47.28	74.00	-26.72	peak
3 *	5270.000	8.51	34.42	42.24	90.38	91.07	68.20	22.87	peak

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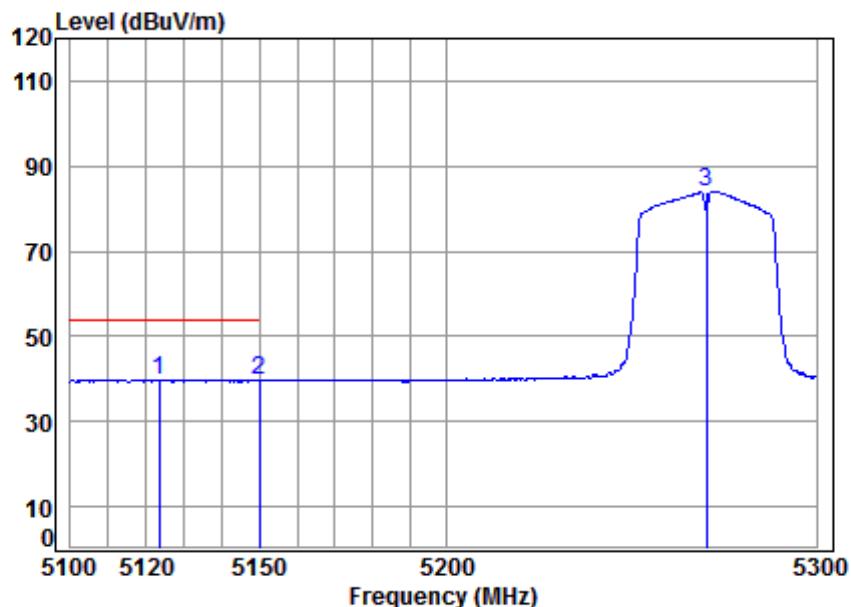
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11.7.3.64 11N40_54 ANT 1_Average_Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 90027

Mode : 5270 Band edge

: 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5123.399	8.28	34.30	42.38	39.63	39.83	54.00	-14.17	Average
2	5149.980	8.33	34.32	42.36	39.33	39.62	54.00	-14.38	Average
3	5270.000	8.51	34.42	42.24	83.31	84.00	-----	-----	Average

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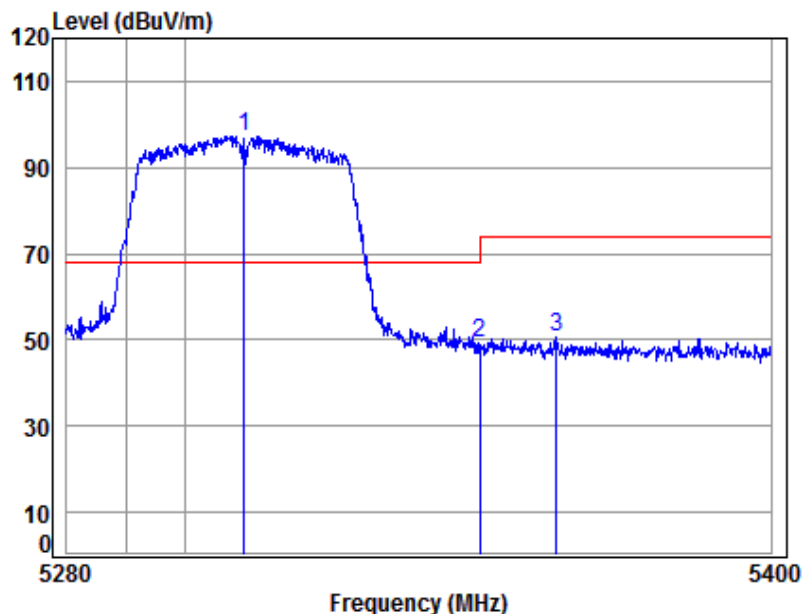
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11.7.3.65 11N40_62 ANT 1_ Peak_Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 90027
Mode : 5310 Band edge
: 5G WIFI 11N40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5310.000	8.57	34.45	42.21	96.35	97.16	68.20	28.96	peak
2 5350.020	8.63	34.48	42.17	48.30	49.24	74.00	-24.76	peak
3 5363.114	8.65	34.49	42.16	49.46	50.44	74.00	-23.56	peak

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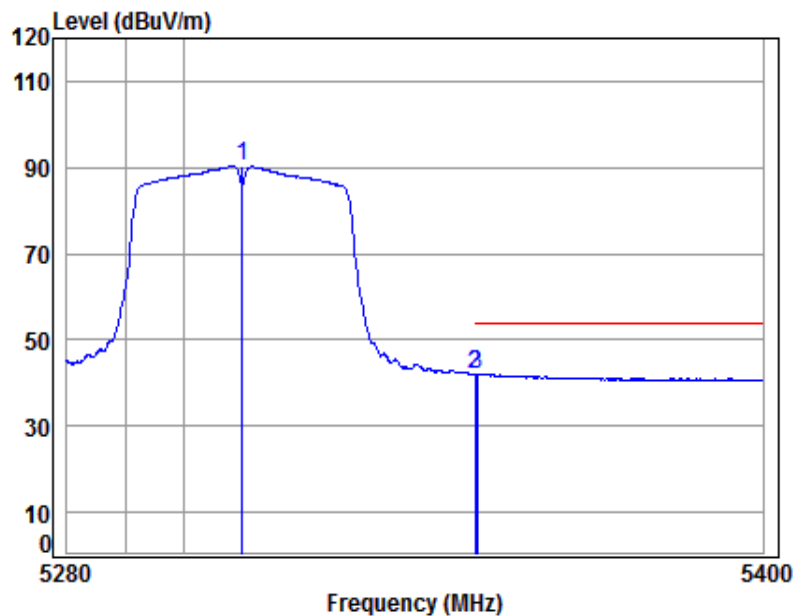
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11.7.3.66 11N40_62 ANT 1_Average_Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No : 90027
 Mode : 5310 Band edge
 : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5310.000	8.57	34.45	42.21	89.48	90.29	-----	-----	Average
2	5350.020	8.63	34.48	42.17	41.16	42.10	54.00	-11.90	Average
3	5350.474	8.63	34.48	42.17	41.18	42.12	54.00	-11.88	Average

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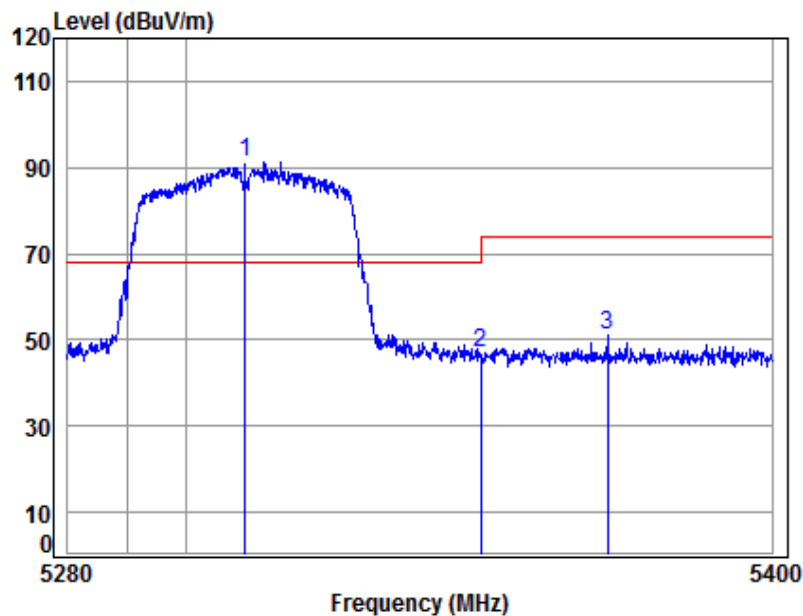
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11.7.3.67 11N40_62 ANT 1_Peak_Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 90027
 Mode : 5310 Band edge
 : 5G WIFI 11N40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5310.000	8.57	34.45	42.21	90.45	91.26	68.20	23.06	peak
2 5350.020	8.63	34.48	42.17	45.84	46.78	74.00	-27.22	peak
3 5371.798	8.66	34.50	42.15	50.07	51.08	74.00	-22.92	peak

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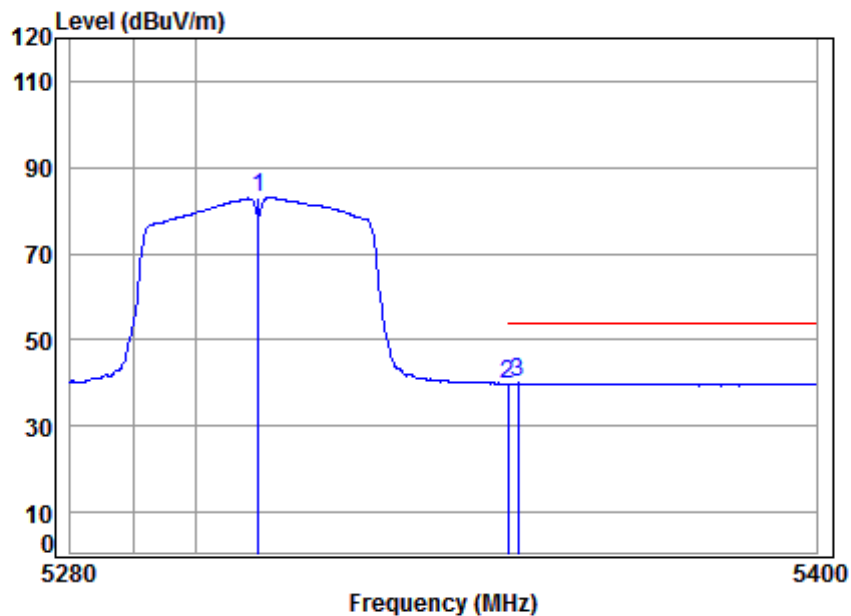
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11.7.3.68 11N40_62 ANT 1_Average_Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 90027

Mode : 5310 Band edge

: 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5310.000	8.57	34.45	42.21	82.19	83.00	-----	-----	Average
2	5350.020	8.63	34.48	42.17	38.97	39.91	54.00	-14.09	Average
3	5351.676	8.63	34.49	42.17	38.97	39.92	54.00	-14.08	Average

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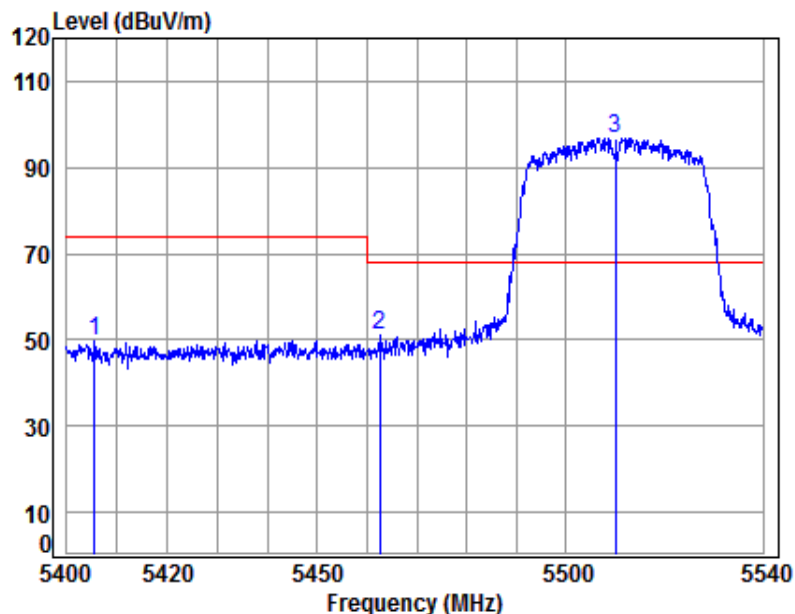
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11.7.3.69 11N40_102 ANT 1_ Peak_ Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No : 90027
 Mode : 5510 Band edge
 : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5405.531	8.71	34.53	42.12	48.64	49.76	74.00	-24.24	peak
2	5462.417	8.80	34.57	42.07	49.82	51.12	68.20	-17.08	peak
3 *	5510.000	8.89	34.61	42.02	95.47	96.95	68.20	28.75	peak

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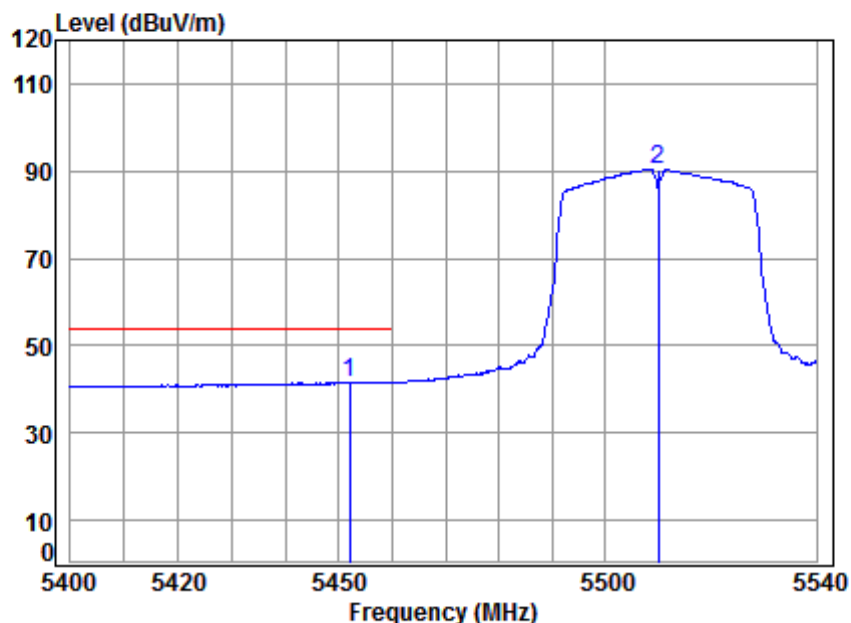
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11.7.3.70 11N40_102 ANT 1_Average_Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 90027

Mode : 5510 Band edge

: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5451.941	8.78	34.56	42.08	40.41	41.67	54.00	-12.33	Average
2	5510.000	8.89	34.61	42.02	88.95	90.43	-----	-----	Average

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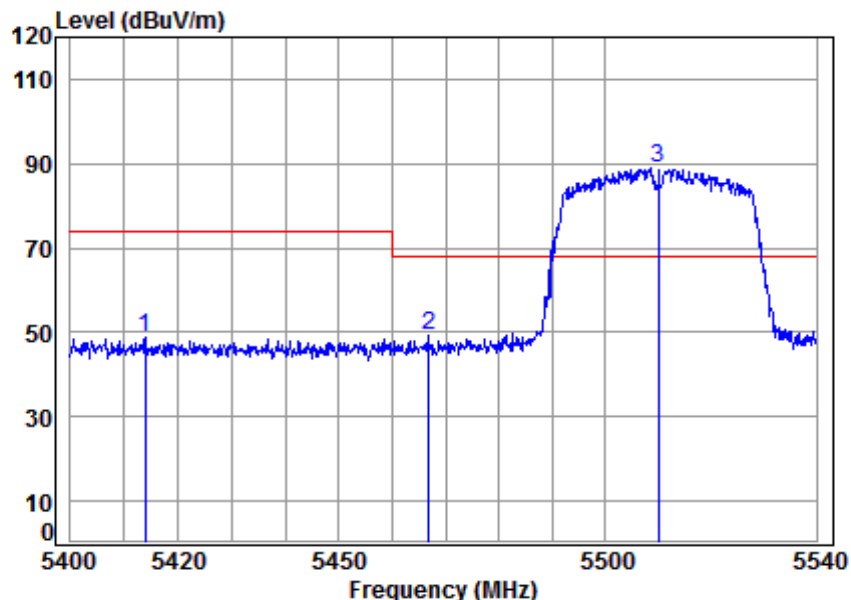
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11.7.3.71 11N40_102 ANT 1_Peak_Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 90027

Mode : 5510 Band edge

: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5413.839	8.72	34.53	42.11	47.77	48.91	74.00	-25.09	peak
2	5466.753	8.80	34.57	42.06	47.85	49.16	68.20	-19.04	peak
3 *	5510.000	8.89	34.61	42.02	87.31	88.79	68.20	20.59	peak

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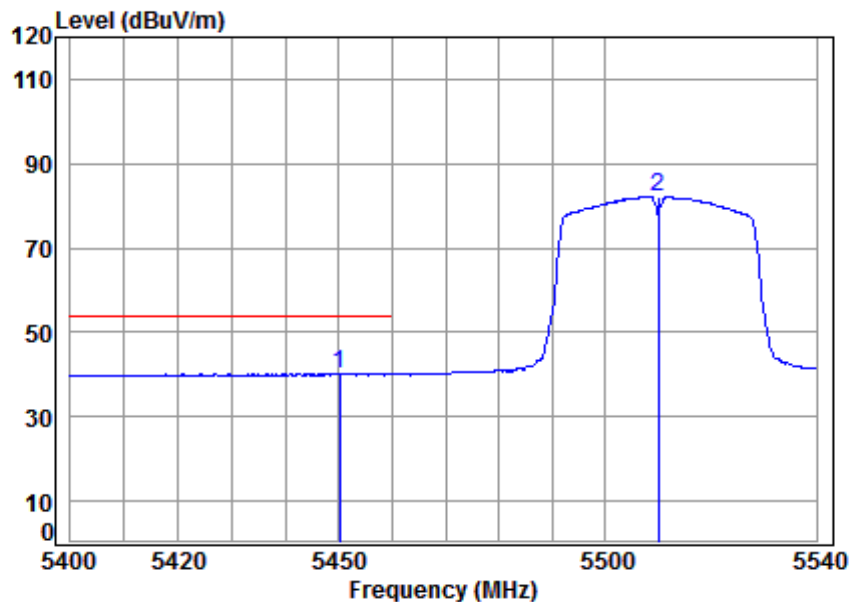
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11.7.3.72 11N40_102 ANT 1_Average_Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 90027
Mode : 5510 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5450.127	8.78	34.56	42.08	38.88	40.14	54.00	-13.86	Average
2	5510.000	8.89	34.61	42.02	80.74	82.22	-----	-----	Average

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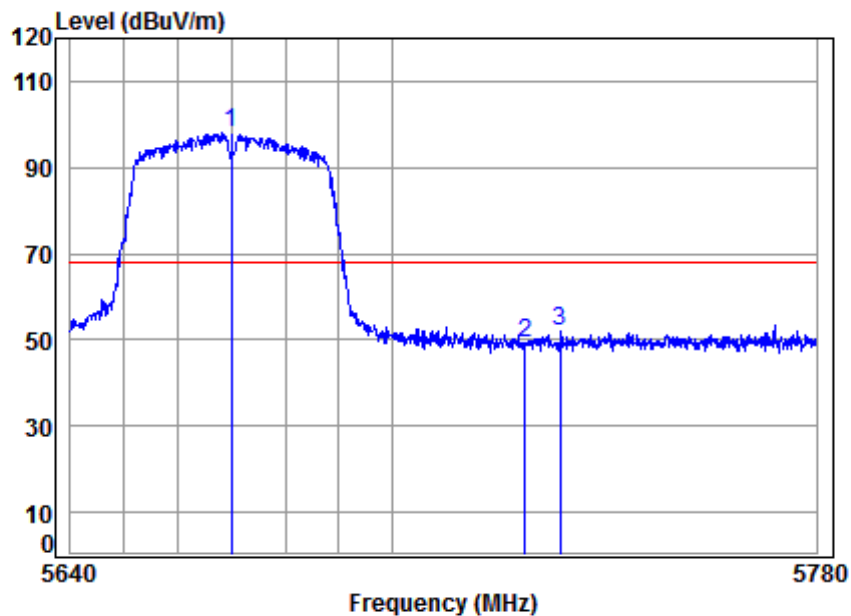
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11.7.3.73 11N40_134 ANT 1_ Peak_ Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 90027

Mode : 5670 Band edge

: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	5670.000	9.45	34.77	41.88	95.82	98.16	68.20	29.96	peak
2	5725.000	9.64	34.83	41.84	46.69	49.32	68.20	-18.88	peak
3	5731.593	9.67	34.84	41.83	49.13	51.81	68.20	-16.39	peak

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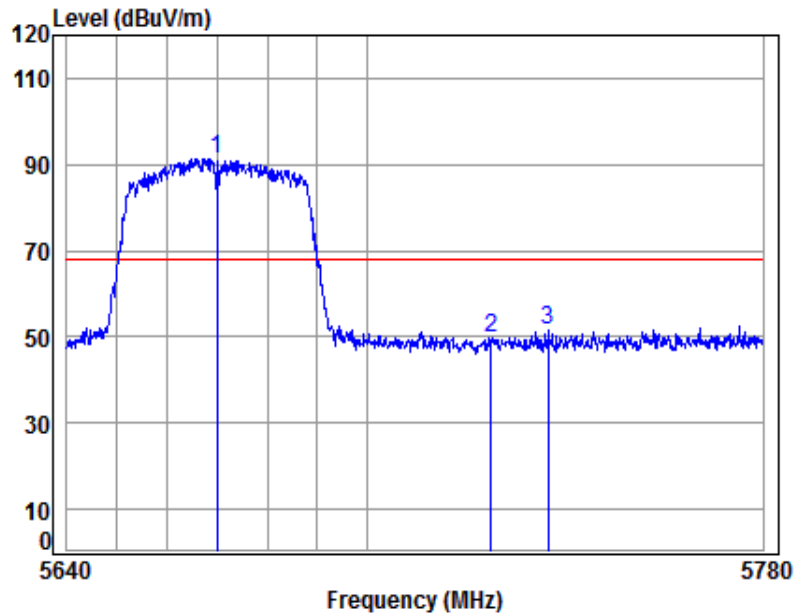
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11.7.3.74 11N40_134 ANT 1_Peak_Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 90027
Mode : 5670 Band edge
: 5G WIFI 11N40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5670.000	9.45	34.77	41.88	88.94	91.28	68.20	23.08	peak
2 5725.000	9.64	34.83	41.84	46.94	49.57	68.20	-18.63	peak
3 5736.514	9.68	34.84	41.83	49.03	51.72	68.20	-16.48	peak

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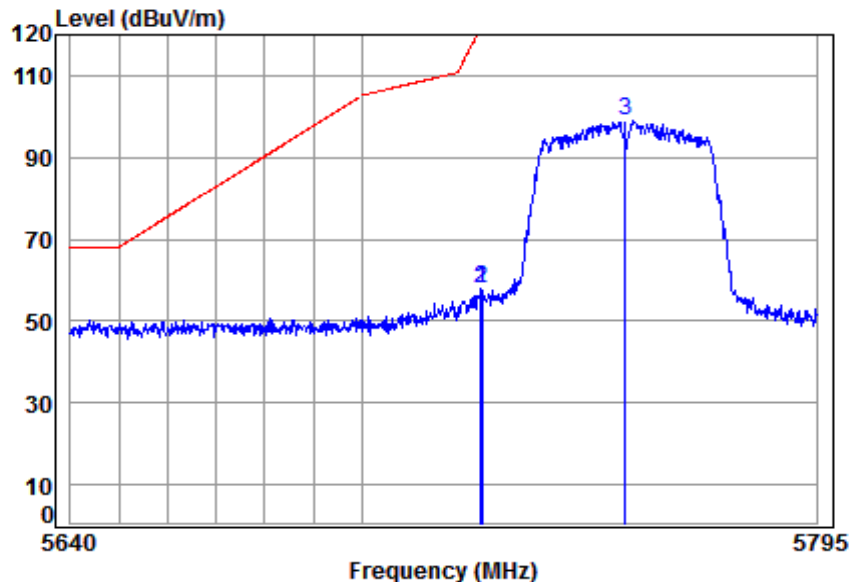
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11.7.3.75 11N40_151 ANT 1_ Peak_ Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 90027

Mode : 5755 Band edge

: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5724.885	9.64	34.83	41.84	55.11	57.74	121.94	-64.20 peak
2	5725.000	9.64	34.83	41.84	55.11	57.74	122.20	-64.46 peak
3	5755.000	9.75	34.86	41.81	96.03	98.83	125.20	-26.37 peak

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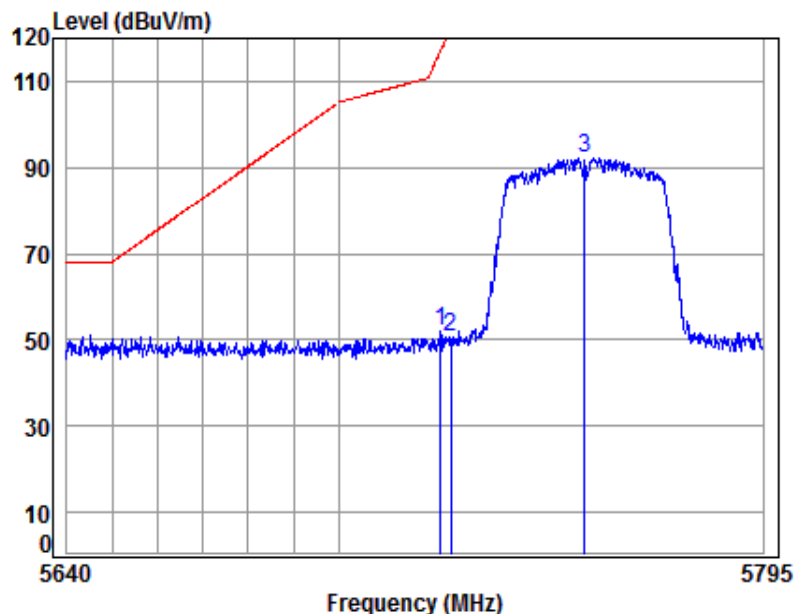
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11.7.3.76 11N40_151 ANT 1_Peak_Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 90027
 Mode : 5755 Band edge
 : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5722.712	9.63	34.83	41.84	49.18	51.80	116.98	-65.18	peak
2	5725.000	9.64	34.83	41.84	48.07	50.70	122.20	-71.50	peak
3	5755.000	9.75	34.86	41.81	89.51	92.31	125.20	-32.89	peak

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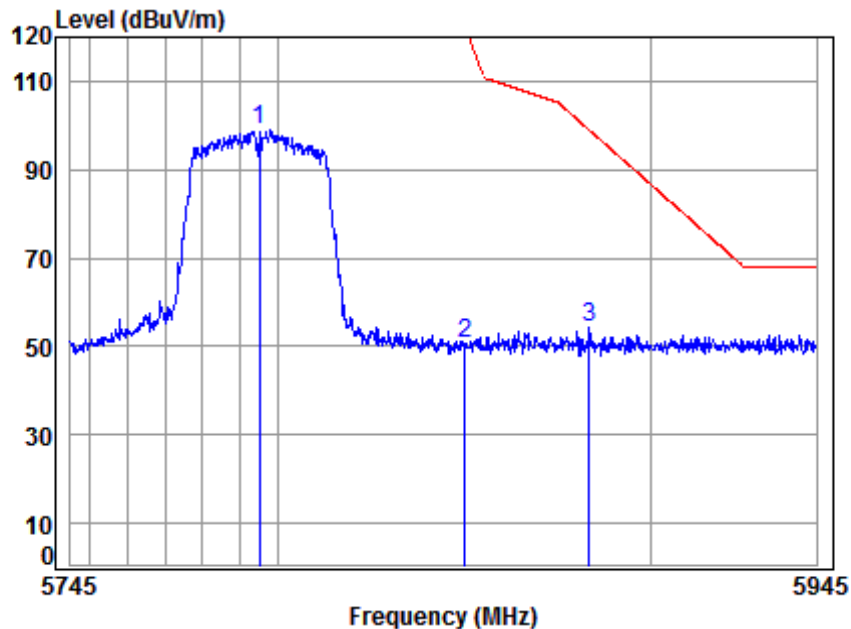
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11.7.3.77 11N40_159 ANT 1_ Peak_ Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 90027

Mode : 5795 Band edge

: 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	9.88	34.90	41.78	96.21	99.21	125.20	-25.99	peak
2	5850.000	10.07	34.95	41.73	47.57	50.86	122.20	-71.34	peak
3	5883.474	10.18	34.99	41.70	50.71	54.18	98.93	-44.75	peak

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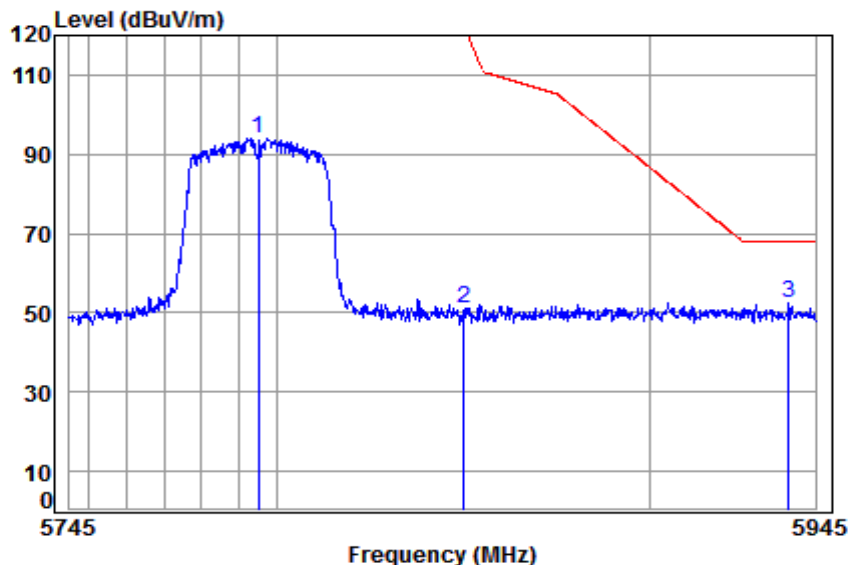
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11.7.3.78 11N40_159 ANT 1_Peak_Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 90027
 Mode : 5795 Band edge
 : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	9.88	34.90	41.78	90.87	93.87	125.20	-31.33	peak
2	5850.000	10.07	34.95	41.73	47.94	51.23	122.20	-70.97	peak
3	5937.681	10.36	35.04	41.66	48.89	52.63	68.20	-15.57	peak

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

All modes have been tested, but only the worst case data displayed in this report.

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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

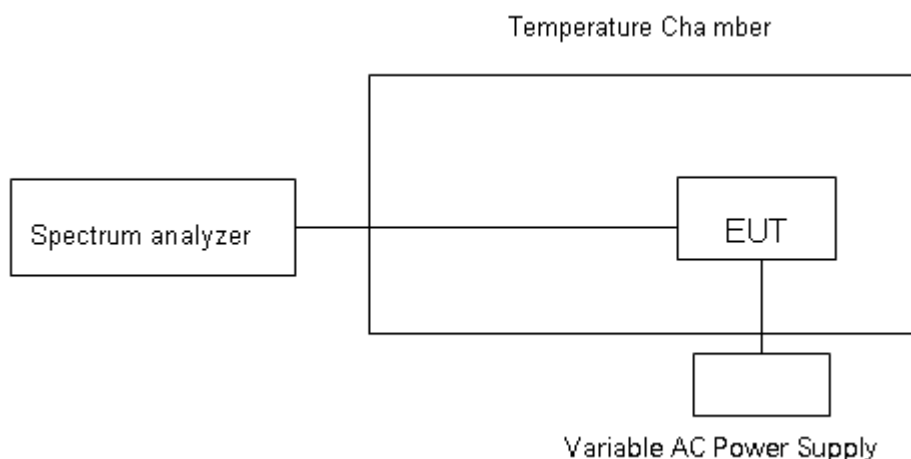
13.1 Standard Applicable

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



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13.4 Measurement Equipment Used:

Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018/9/2	2019/9/2
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2018/3/13	2019/3/12
Coaxial Cable	SGS	N/A	SEM031-01	2018/7/12	2019/7/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018/9/2	2019/9/2
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2018/11/27	2019/11/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018/9/2	2019/9/2

13.5 Measurement Result

13.5.1 Frequency Error vs. Voltage:

Test Conditions	Measured Frequency (MHz)	
	5180	5825
V nom(V)	5180.004921	5825.007955
V max(V)	5180.012335	5825.008627
V min(V)	5180.009081	5825.006371
Max. Deviation Frequency	0.012335	0.008627
Max. Frequency Error (ppm)	2.381351	1.480957

13.5.2 Frequency Error vs. Temperature:

Test Conditions(°C)	Measured Frequency (MHz)	
	5180	5825
-5	5180.006314	5825.009856
5	5180.007751	5825.002400
15	5180.007733	5825.010544
25	5180.013151	5825.015275
35	5180.012867	5825.022038
45	5180.011759	5825.002795
50	5180.003918	5824.998131
Max. Deviation Frequency	0.013151	0.022038
Max. Frequency Error (ppm)	2.538894	3.783428

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14 DYNAMIC FREQUENCY SELECTION

14.1 DFS Overview

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
<i>Non-Occupancy Period</i>	Yes	Not required	Yes
<i>DFS Detection Threshold</i>	Yes	Not required	Yes
<i>Channel Availability Check Time</i>	Yes	Not required	Not required
<i>U-NII Detection Bandwidth</i>	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
<i>DFS Detection Threshold</i>	Yes	Not required
<i>Channel Closing Transmission Time</i>	Yes	Yes
<i>Channel Move Time</i>	Yes	Yes
<i>U-NII Detection Bandwidth</i>	Yes	Not required
Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
<i>U-NII Detection Bandwidth and Statistical Performance Check</i>	All BW modes must be tested	Not required
<i>Channel Move Time and Channel Closing Transmission Time</i>	Test using widest BW mode available	Test using the widest BW mode available for the link
<i>All other tests</i>	Any single BW mode	Not required
Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		

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14.2 DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP $\geq$ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. Note 3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.	

14.3 Response Requirements

Table 4: DFS Response Requirement Values

Parameter	Value
<i>Non-occupancy period</i>	Minimum 30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
<i>U-NII Detection Bandwidth</i>	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.
Note 1: <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. Note 2: The <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate a <i>Channel</i> move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions. Note 3: During the <i>U-NII Detection Bandwidth</i> detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.	

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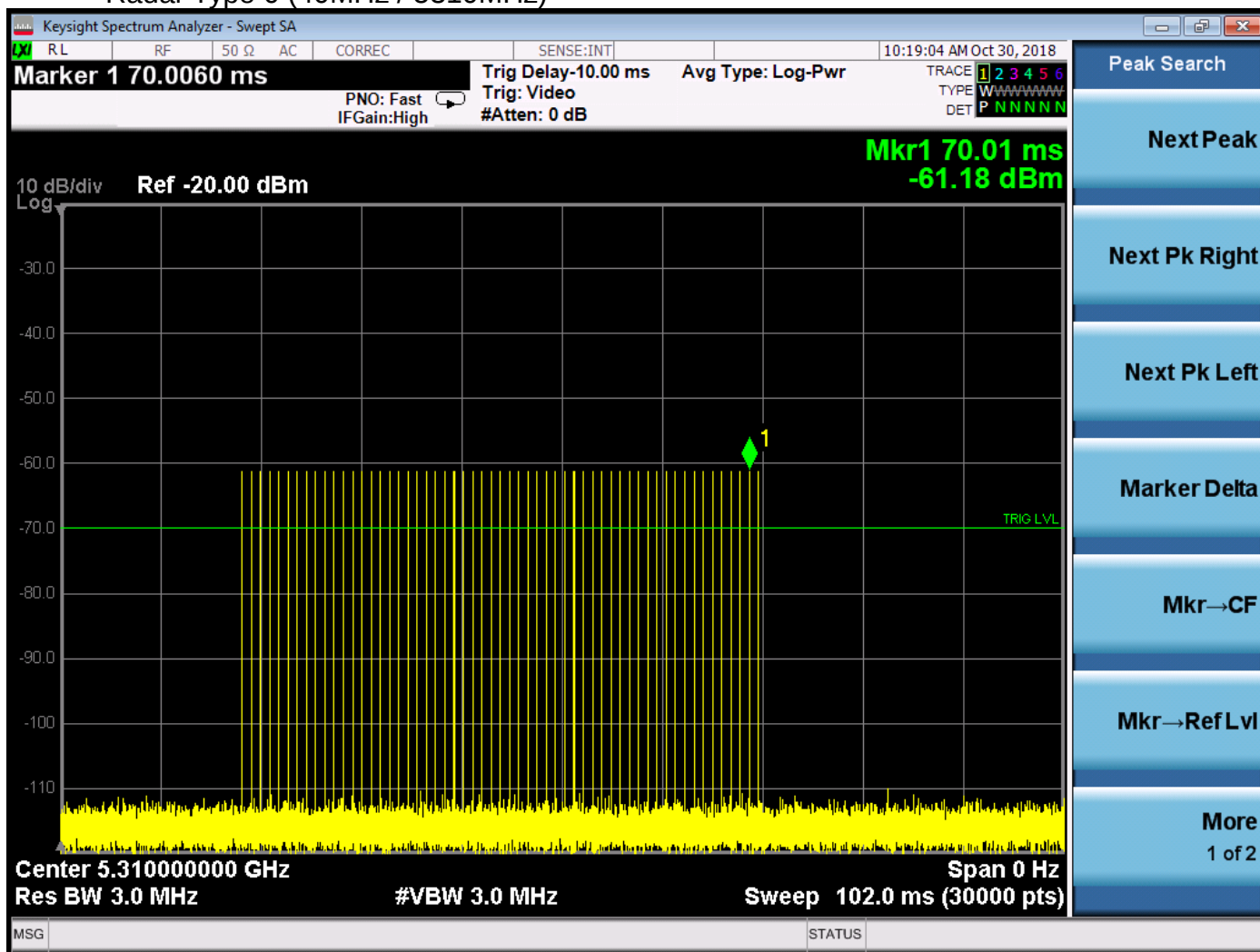
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14.4 Test plots

14.4.1 Radar Waveform Calibration Result

Radar Type 0 (40MHz / 5310MHz)



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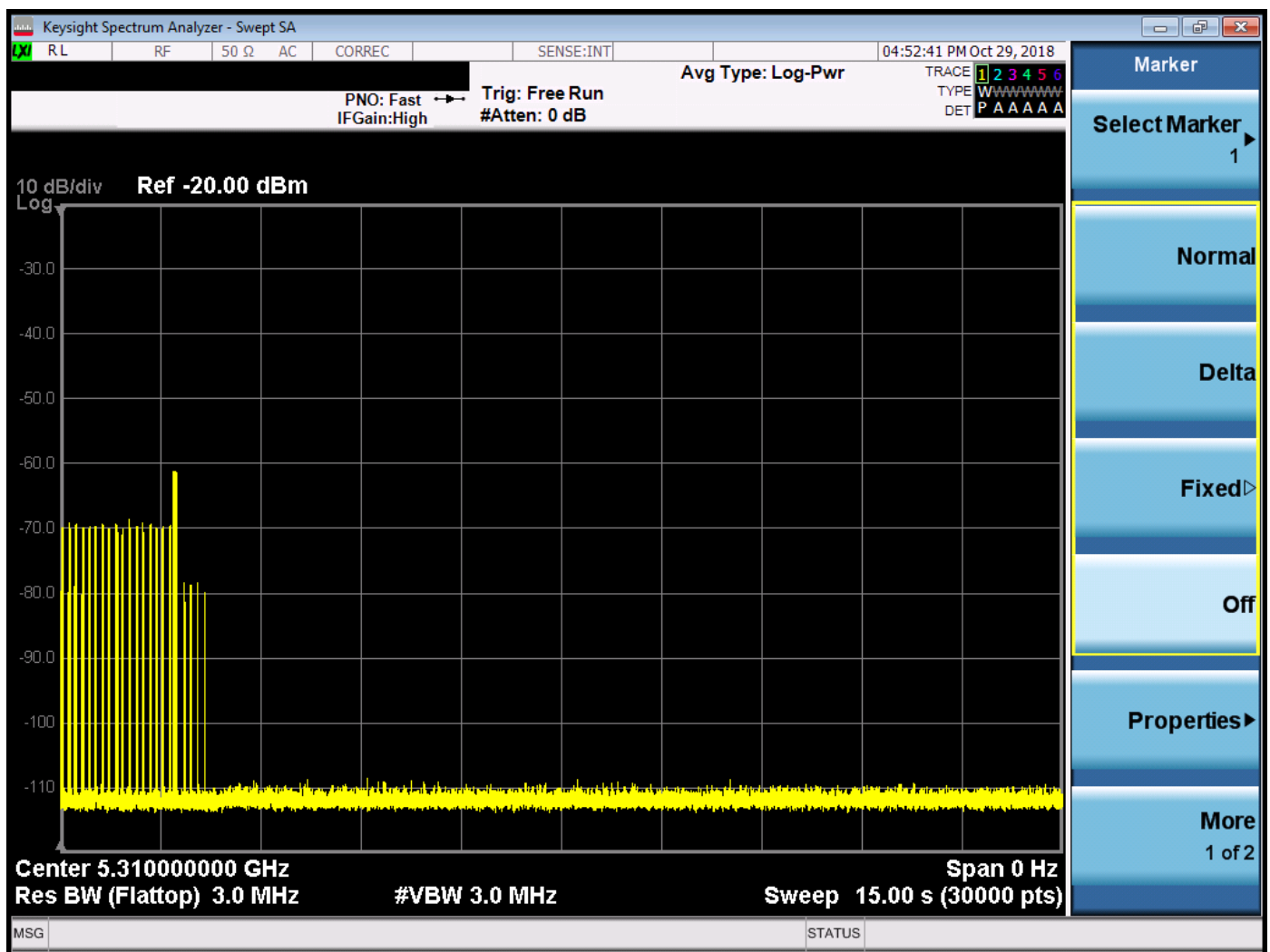
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14.4.2 Test Data:

BW/Channel	Test Item	Test Result	Limit	Results
40MHz / 5310MHz	Channel Move Time	0.422s	<10s	Pass
	Channel Closing Transmission Time	3ms	<60ms	Pass

14.4.3 Test plots

14.4.3.1 Test Bandwidth/Channel= 40MHz / 5310MHz



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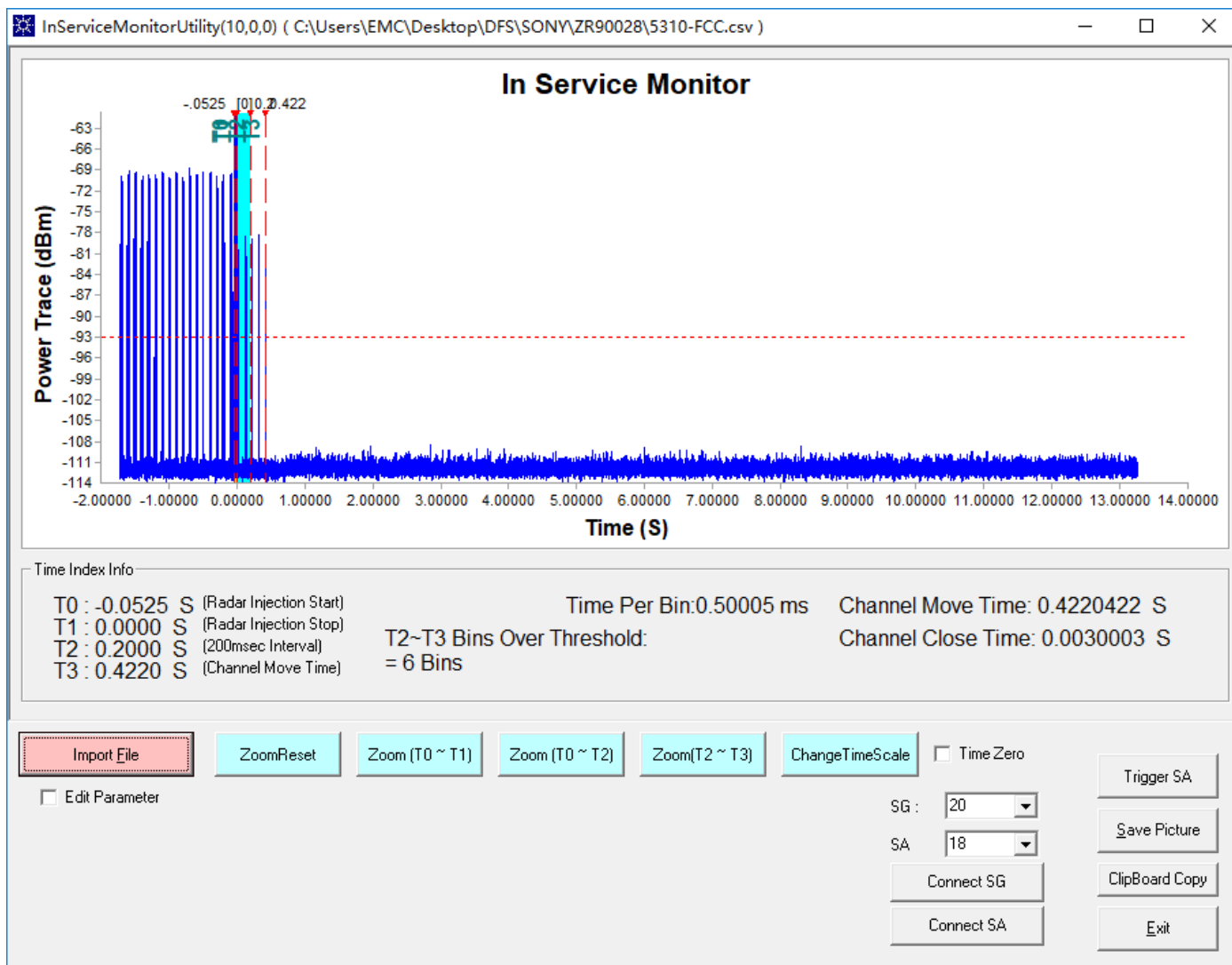
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15 ANTENNA REQUIREMENT

15.1 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.

15.2 Antenna Connected Construction

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

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16 PHOTOGRAPHS - EUT TEST SETUP DETAILS

Refer to Appendix A - Photographs of EUT Test Setup Details for ZR/2018/A0011.

~ End of Report ~

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