

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

$EIRP = (E \cdot d)^2 / 30$, 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

SGS SAC-III					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESU 40	100363	04/18/2017	04/17/2018
Loop Antenna	ETS-Lindgren	6502	00143303	12/23/2017	12/22/2018
Broadband Antenna	TESEQ	CBL 6112D	35240	11/03/2017	11/02/2018
Horn Antenna	ETS-Lindgren	3117	00143272	12/15/2017	12/16/2018
Horn Antenna	Schwarzbeck	BBHA9170	185	08/01/2017	07/31/2018
Pre Amplifier	EMC Instruments	EMC330	980096	12/24/2017	12/23/2018
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/24/2017	12/23/2018
Pre Amplifier	R&S	SCU-18	10204	12/24/2017	12/23/2018
Pre Amplifier	EMC Instruments	EMC184045B	980135	12/24/2017	12/23/2018
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/24/2017	12/23/2018
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/24/2017	12/23/2018
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/24/2017	12/23/2018
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/24/2017	12/23/2018
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/24/2017	12/23/2018
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/24/2017	12/23/2018
Attenuator	WOKEN	218FS-10	RF27	12/24/2017	12/23/2018
Site NSA	SGS	966 Chamber C	SAC-C	03/02/2017	03/01/2018
Site VSWR	SGS	966 Chamber C	SAC-C	03/02/2017	03/01/2018
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2017	05/03/2018
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

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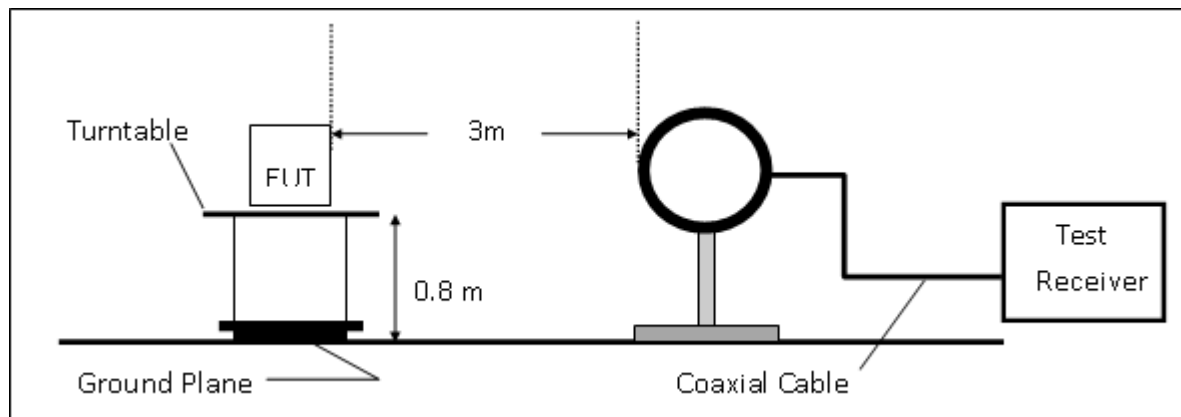
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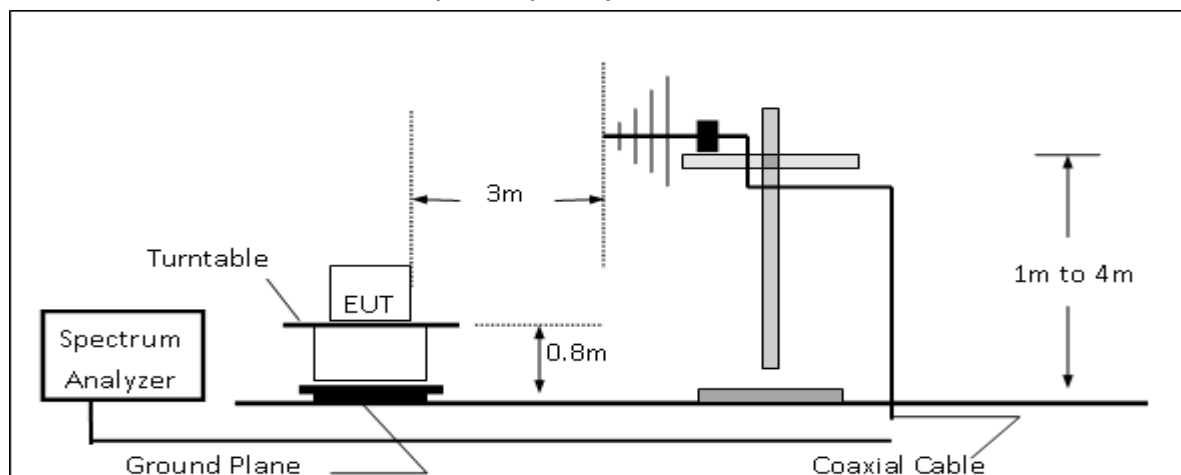
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11.3 Test SET-UP

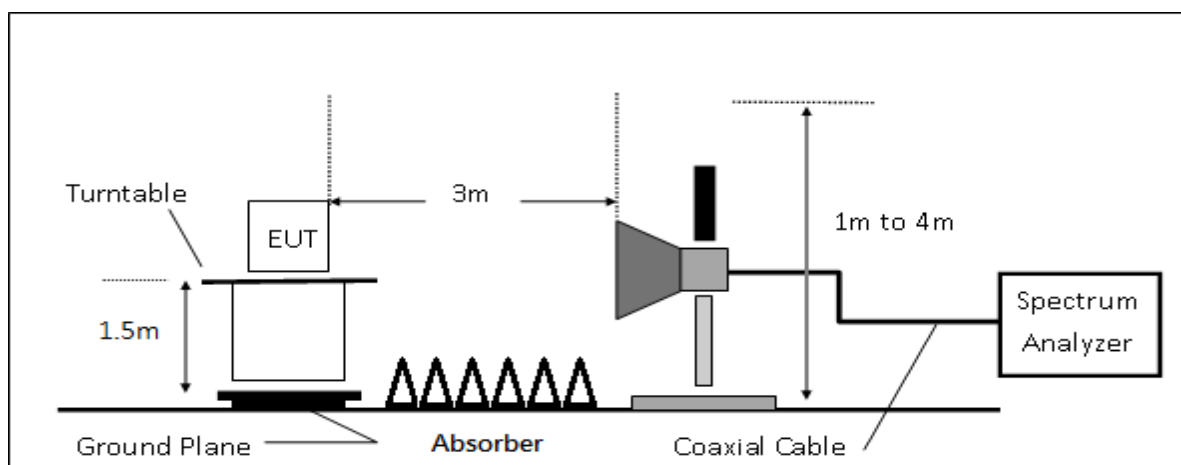
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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 $\geq 1/T$ (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)

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Note :

“F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

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.

11.7 Measurement Result

Refer to next page for tabular data sheets.

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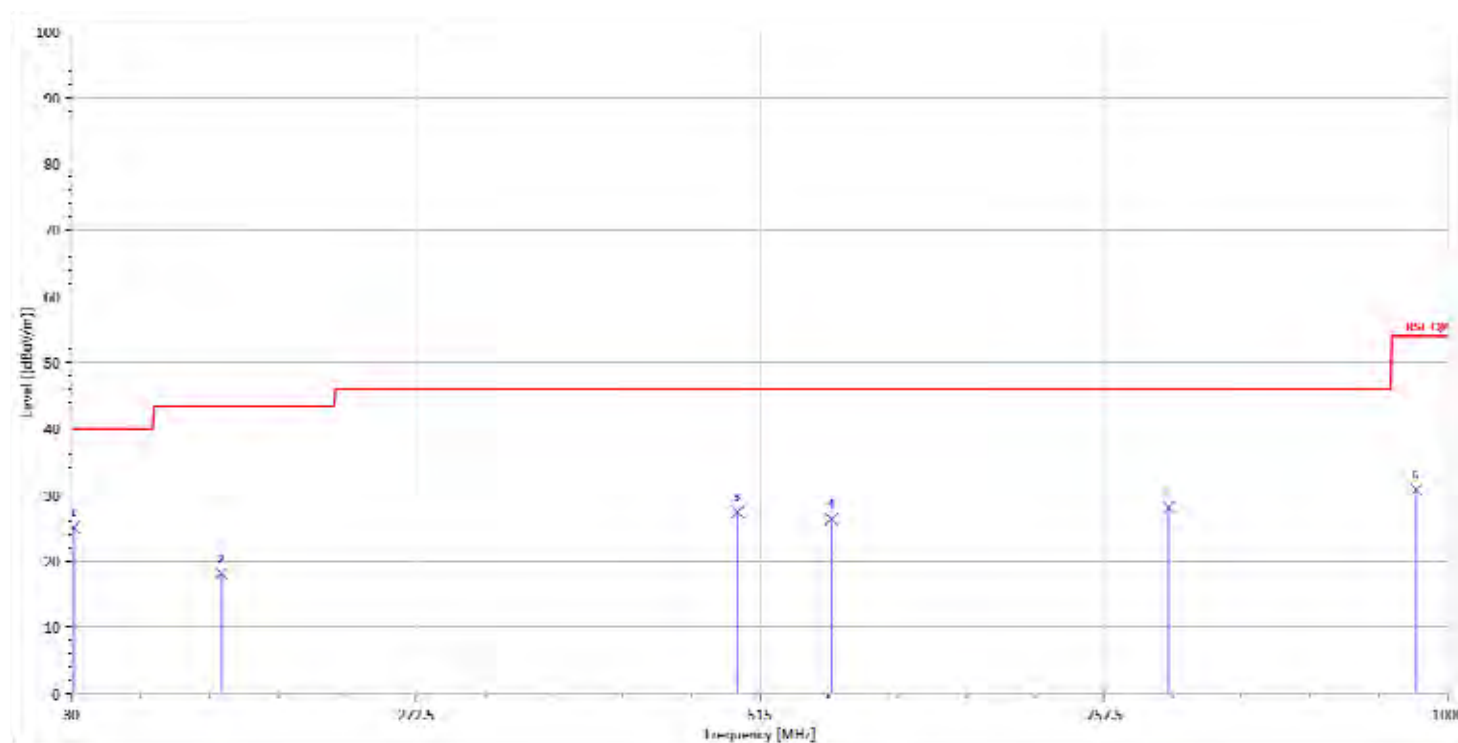
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Radiated Spurious Emission Measurement Result

Below 1GHz Worst-Case Data:

802.11a 5150~5250 MHz

Operation Mode :	802.11aB1	Test Date :	2017/12/22
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



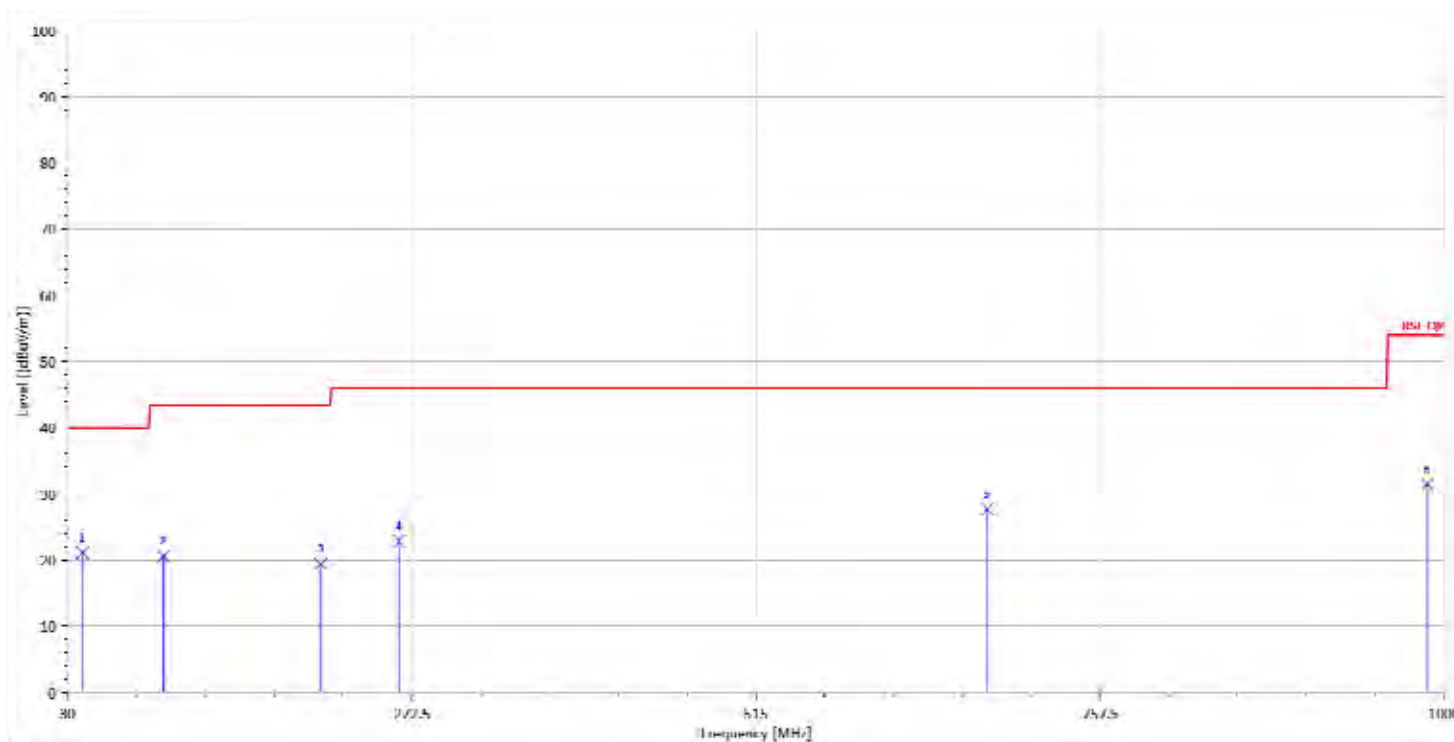
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
31.94	S	Peak	33.30	-8.22	25.08	40	-14.92
135.73	S	Peak	33.87	-15.73	18.14	43.5	-25.36
499.48	S	Peak	35.07	-7.66	27.40	46	-18.60
565.44	S	Peak	32.83	-6.49	26.34	46	-19.66
803.09	S	Peak	31.52	-3.42	28.11	46	-17.89
977.69	S	Peak	31.60	-0.85	30.75	54	-23.25

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Operation Mode : 802.11aB1 Test Date : 2017/12/22
Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
40.67	S	Peak	34.42	-13.29	21.13	40	-18.87
97.90	S	Peak	38.71	-18.10	20.60	43.5	-22.90
208.48	S	Peak	36.60	-17.18	19.42	43.5	-24.08
263.77	S	Peak	36.67	-13.80	22.87	46	-23.13
677.96	S	Peak	32.90	-5.20	27.70	46	-18.30
988.36	S	Peak	31.99	-0.57	31.42	54	-22.58

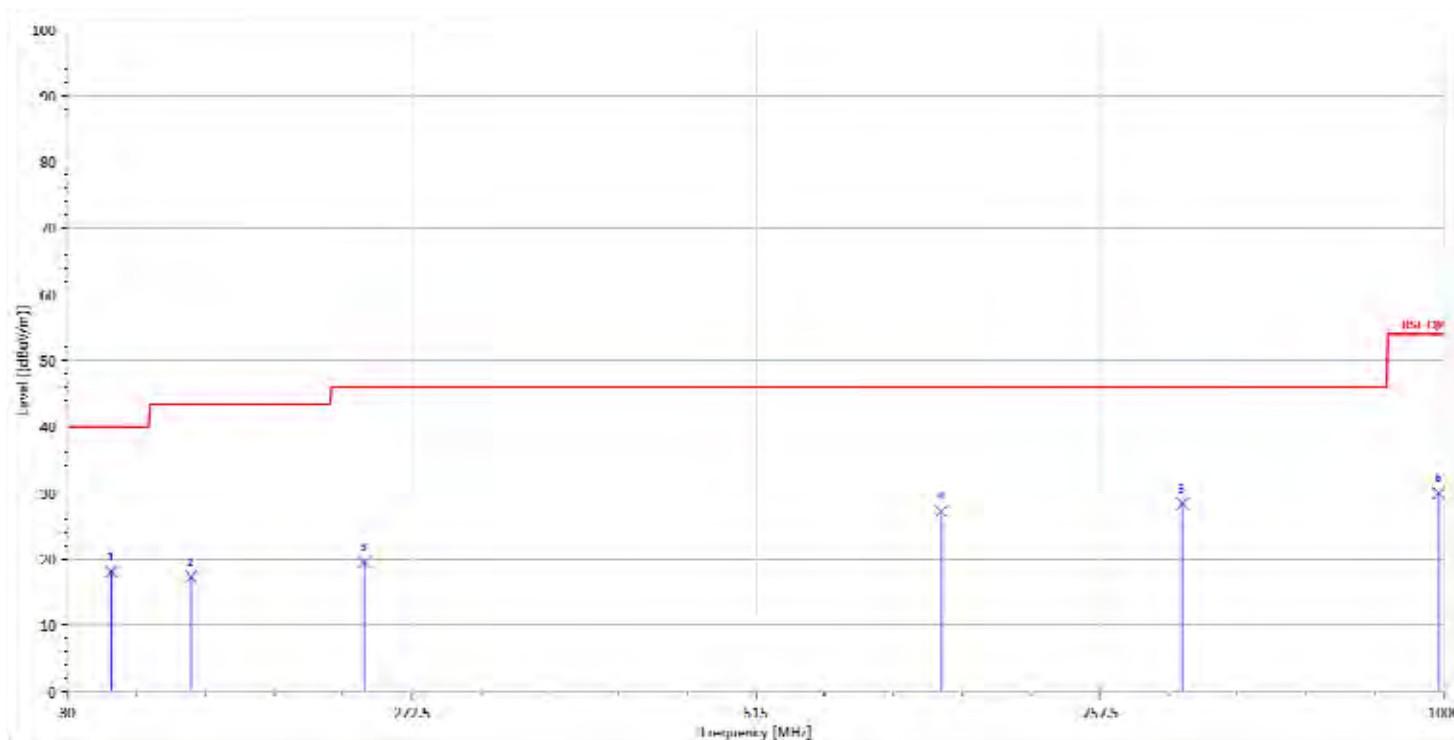
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802.11a 5250~5350 MHz

Operation Mode :	802.11aB2	Test Date :	2017/12/22
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
61.04	S	Peak	40.93	-22.83	18.10	40	-21.90
117.30	S	Peak	33.35	-16.00	17.35	43.5	-26.15
239.52	S	Peak	34.84	-15.28	19.55	46	-26.45
645.95	S	Peak	31.99	-4.79	27.21	46	-18.79
815.70	S	Peak	31.54	-3.16	28.38	46	-17.62
996.12	S	Peak	30.58	-0.61	29.97	54	-24.03

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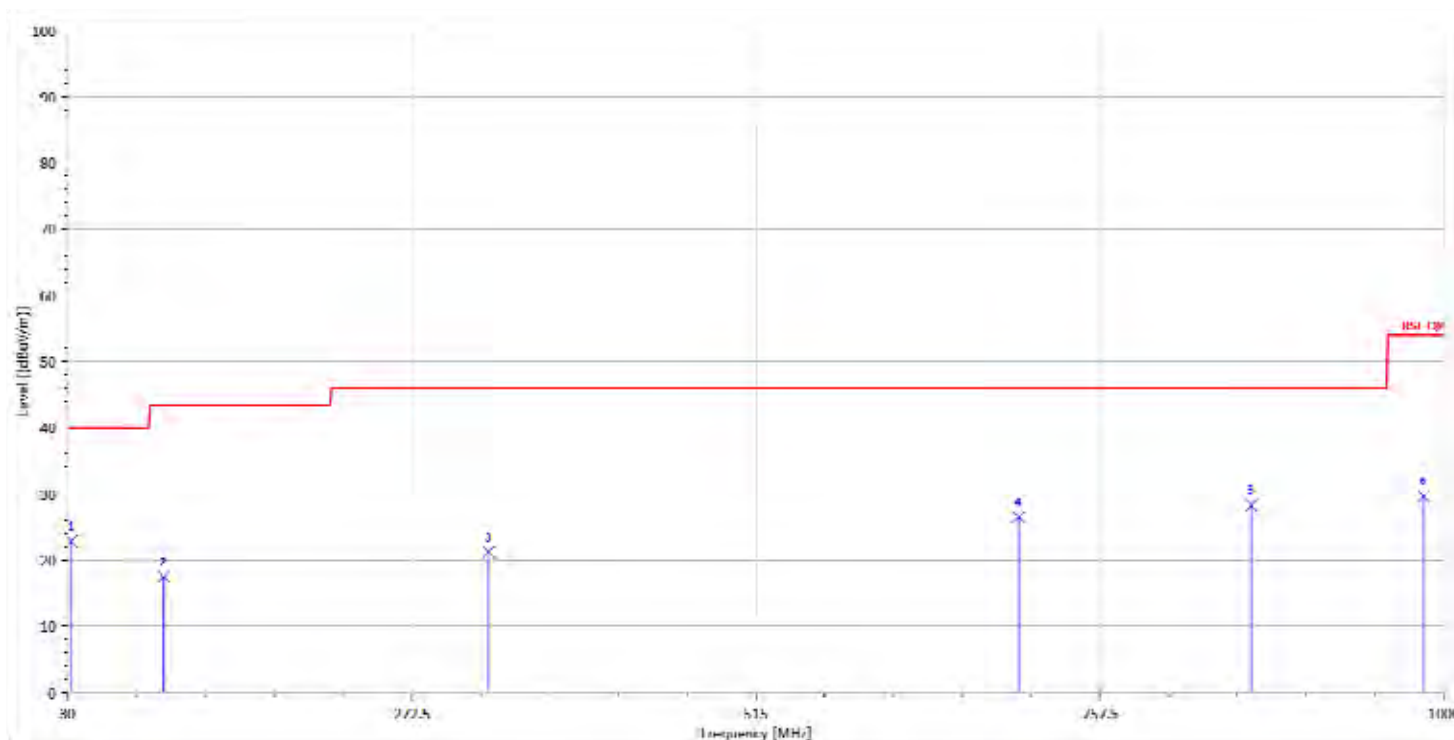
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Operation Mode : 802.11aB2 Test Date : 2017/12/22
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Enzo
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
32.91	S	Peak	31.58	-8.75	22.83	40	-17.17
97.90	S	Peak	35.58	-18.10	17.48	43.5	-26.02
326.82	S	Peak	33.19	-11.99	21.20	46	-24.80
700.27	S	Peak	31.71	-5.20	26.51	46	-19.49
864.20	S	Peak	30.97	-2.70	28.27	46	-17.73
985.45	S	Peak	30.37	-0.72	29.66	54	-24.34

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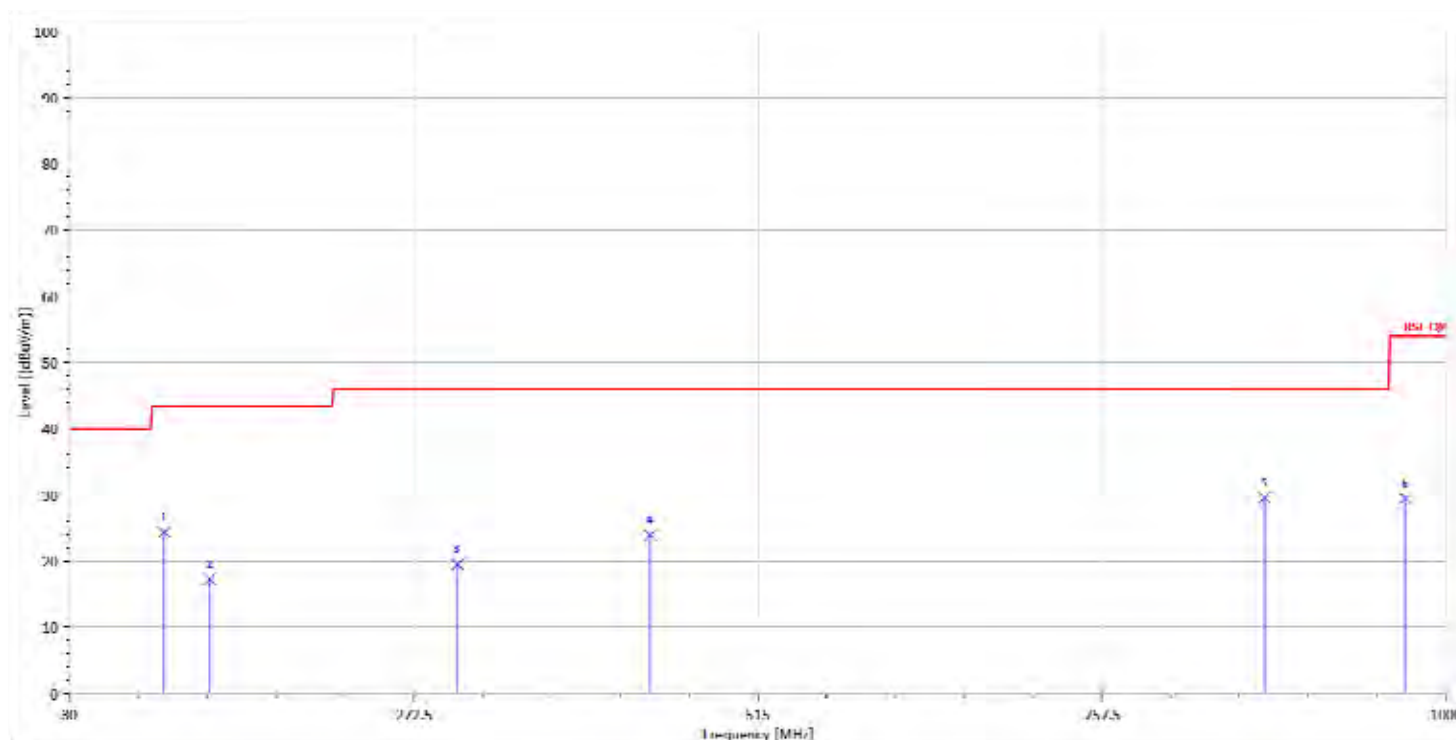
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802.11a, 5470~5725 MHz

Operation Mode :	802.11aB3	Test Date :	2017/12/22
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
96.93	S	Peak	42.61	-18.27	24.34	43.5	-19.16
128.94	S	Peak	32.89	-15.62	17.27	43.5	-26.23
303.54	S	Peak	32.53	-13.00	19.53	46	-26.47
439.34	S	Peak	33.15	-9.23	23.92	46	-22.08
871.96	S	Peak	32.41	-2.82	29.59	46	-16.41
970.90	S	Peak	31.05	-1.57	29.48	54	-24.52

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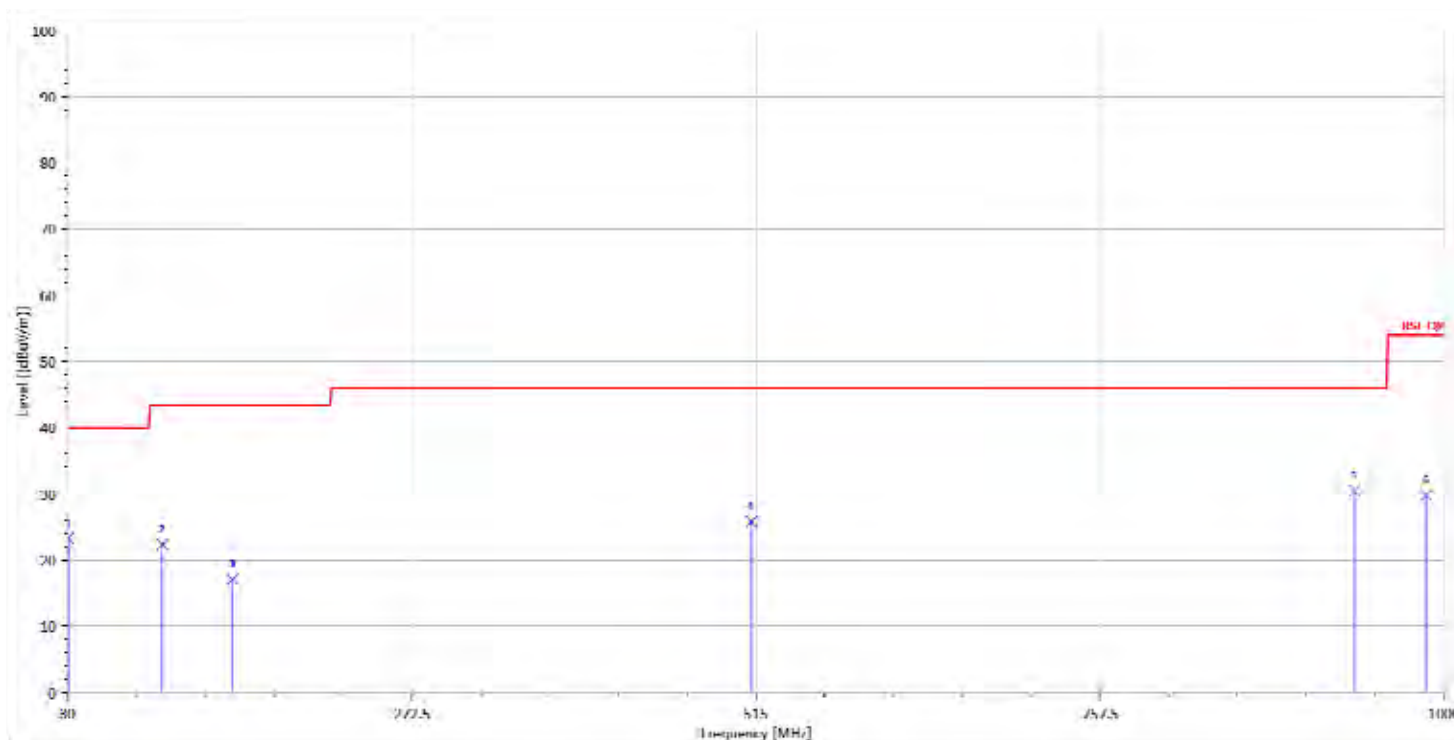
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f (886-2) 2298-0488

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Operation Mode : 802.11aB3 Test Date : 2017/12/22
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Enzo
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.97	S	Peak	31.03	-7.70	23.32	40	-16.68
96.93	S	Peak	40.64	-18.27	22.37	43.5	-21.13
146.40	S	Peak	33.57	-16.45	17.11	43.5	-26.39
512.09	S	Peak	33.33	-7.51	25.82	46	-20.18
936.95	S	Peak	32.17	-1.70	30.47	46	-15.53
987.39	S	Peak	30.41	-0.57	29.84	54	-24.16

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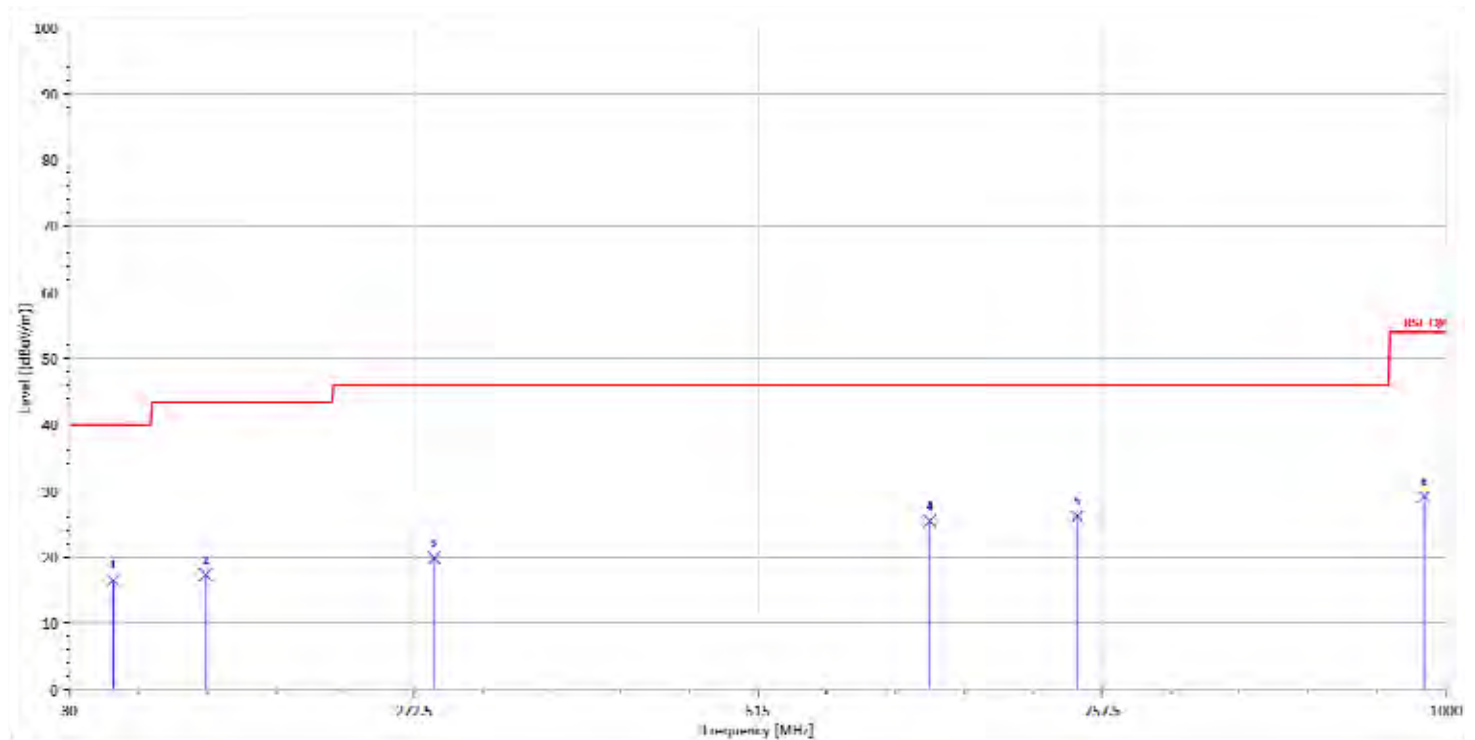
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Member of SGS Group

802.11a, 5725~5850 MHz

Operation Mode :	802.11aB4	Test Date :	2017/12/22
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
61.04	S	Peak	39.31	-22.83	16.48	40	-23.52
126.03	S	Peak	33.00	-15.65	17.35	43.5	-26.15
287.05	S	Peak	33.24	-13.38	19.86	46	-26.14
636.25	S	Peak	30.71	-5.25	25.46	46	-20.54
740.04	S	Peak	30.25	-4.09	26.16	46	-19.84
984.48	S	Peak	29.94	-0.80	29.14	54	-24.86

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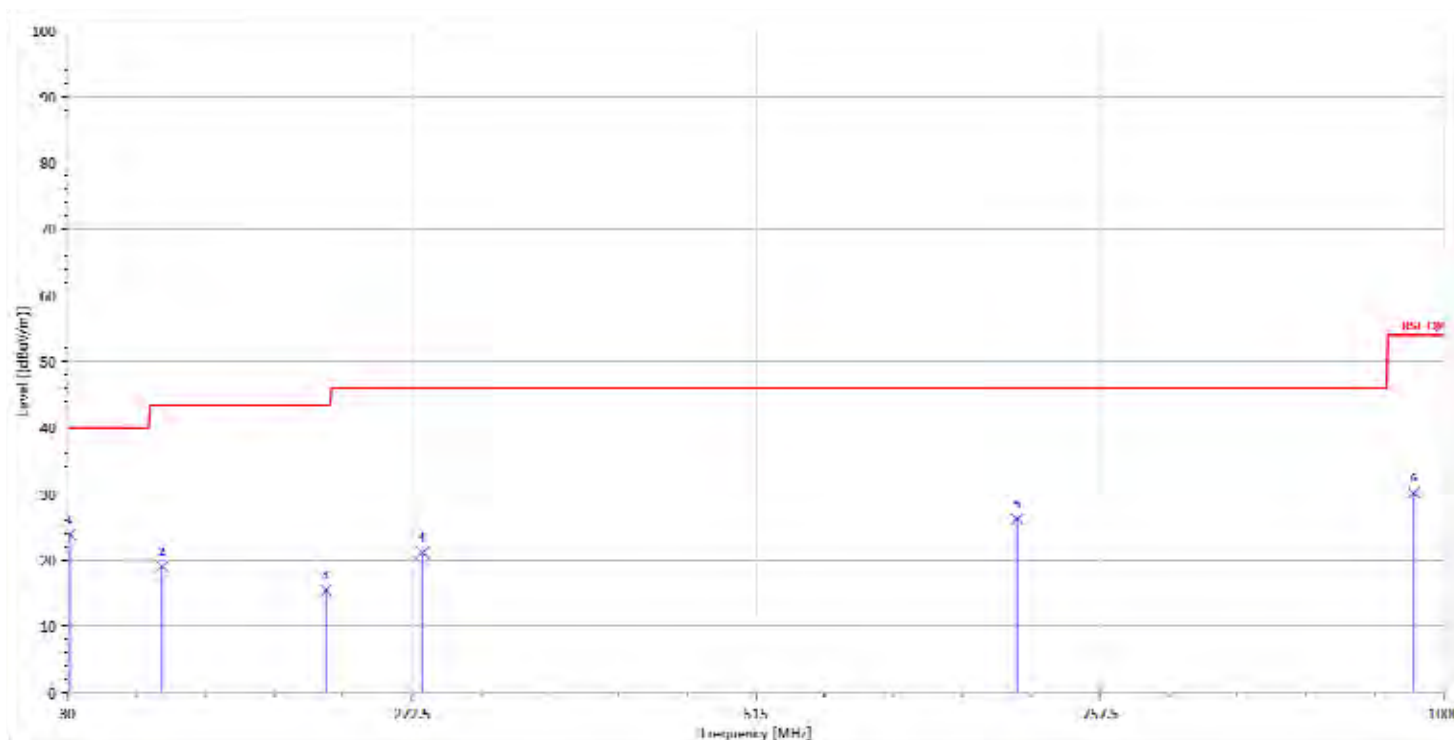
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Operation Mode : 802.11aB4 Test Date : 2017/12/22
Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
31.94	S	Peak	32.12	-8.22	23.90	40	-16.10
96.93	S	Peak	37.31	-18.27	19.04	43.5	-24.46
212.36	S	Peak	32.55	-17.11	15.45	43.5	-28.05
280.26	S	Peak	34.72	-13.61	21.12	46	-24.88
699.30	S	Peak	31.28	-5.09	26.19	46	-19.81
978.66	S	Peak	31.08	-0.92	30.17	54	-23.83

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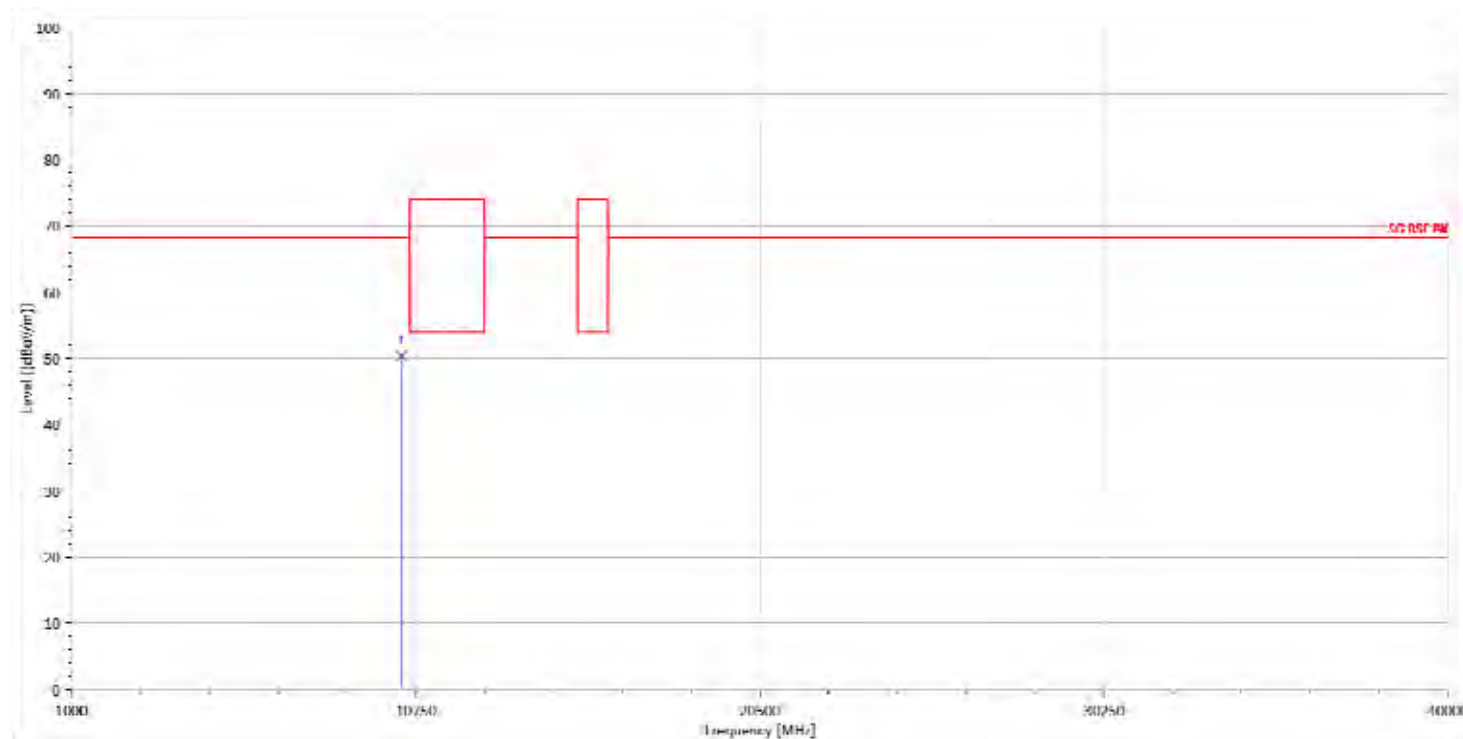
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Above 1GHz Worst-Case Data:

Radiated Spurious Emission Measurement Result 802.11a, 5150~5250 MHz

Operation Mode :	802.11aB1	Test Date :	2017/12/14
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



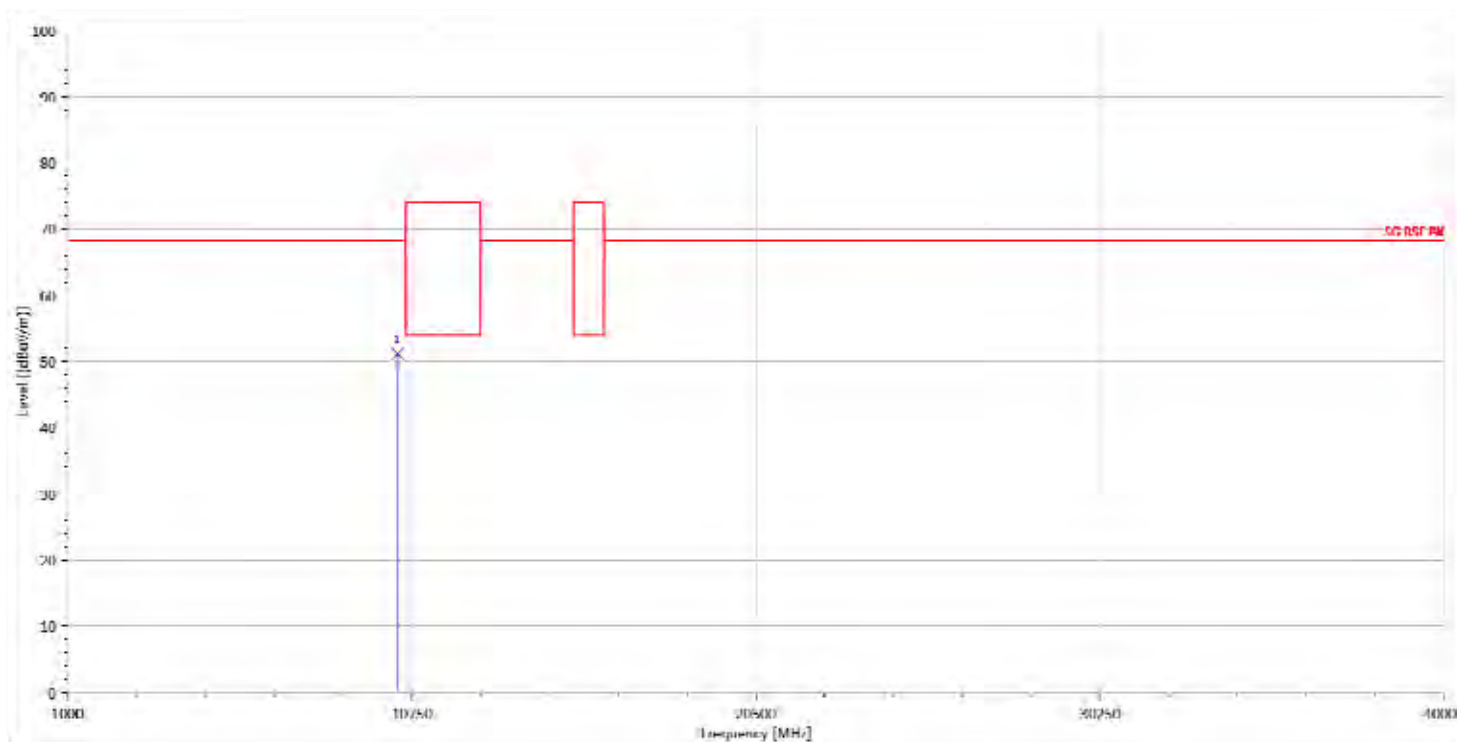
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1036.00	H	Peak	30.26	20.18	50.44	68.3	-17.86

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Operation Mode : 802.11aB1 Test Date : 2017/12/14
Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



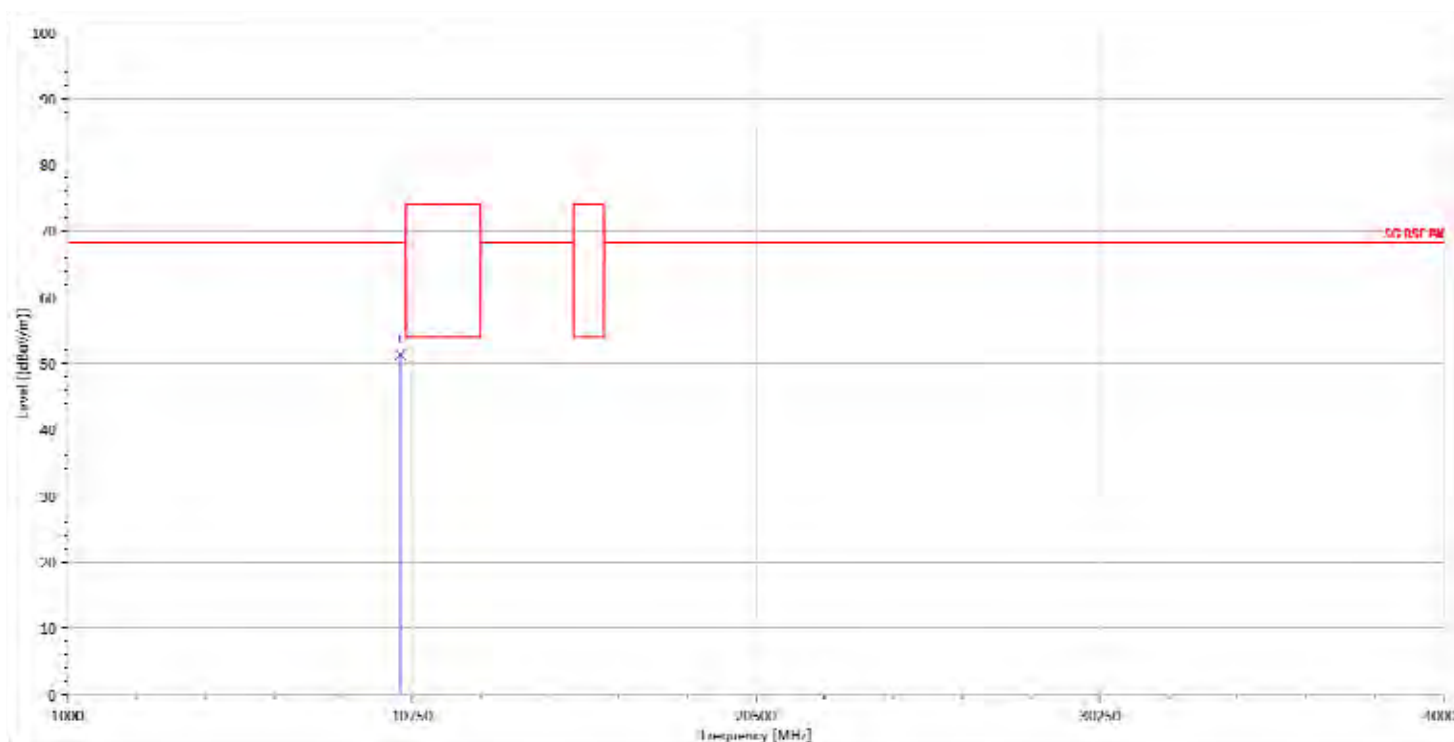
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	H	Peak	31.00	20.18	51.17	68.3	-17.13

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Operation Mode : 802.11aB1 Test Date : 2017/12/14
Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



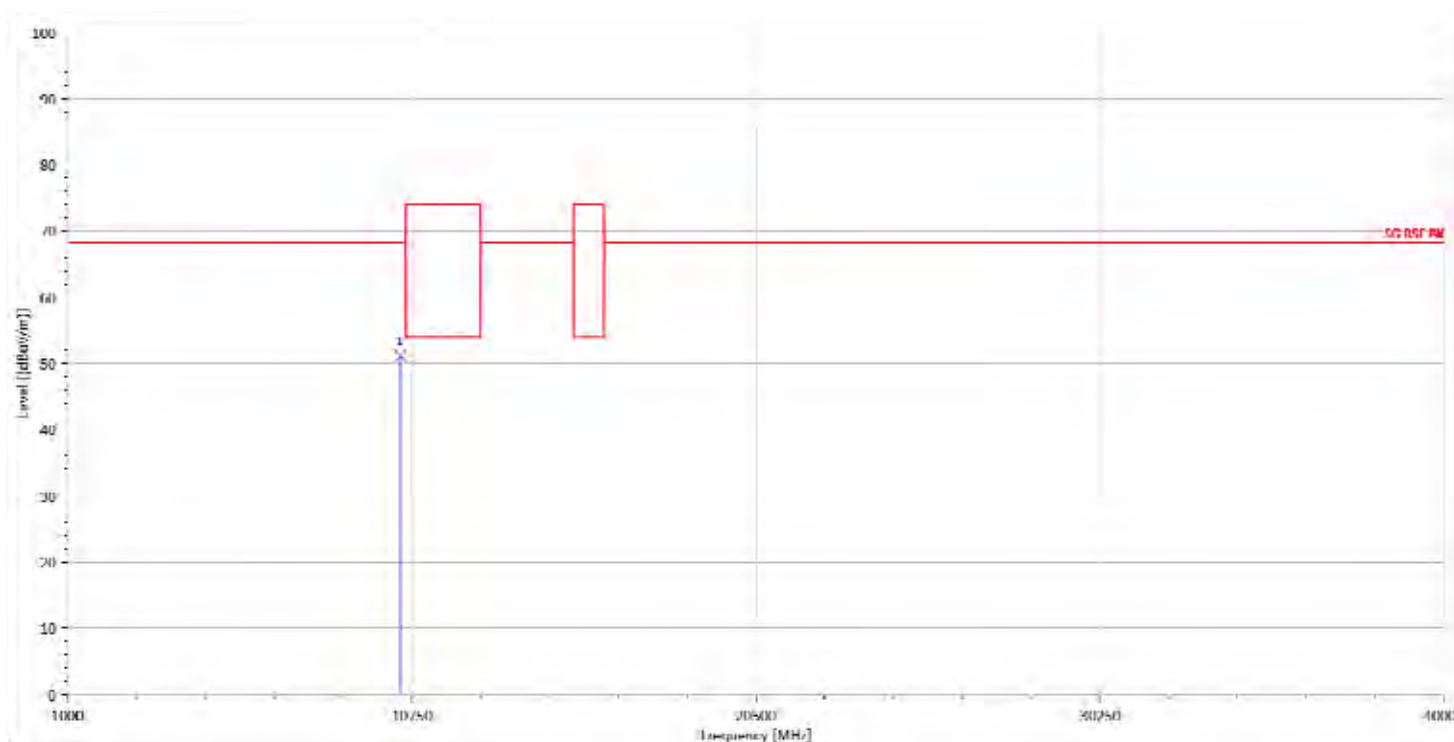
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	H	Peak	31.07	20.29	51.36	68.3	-16.94

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Operation Mode : 802.11aB1 Test Date : 2017/12/14
Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



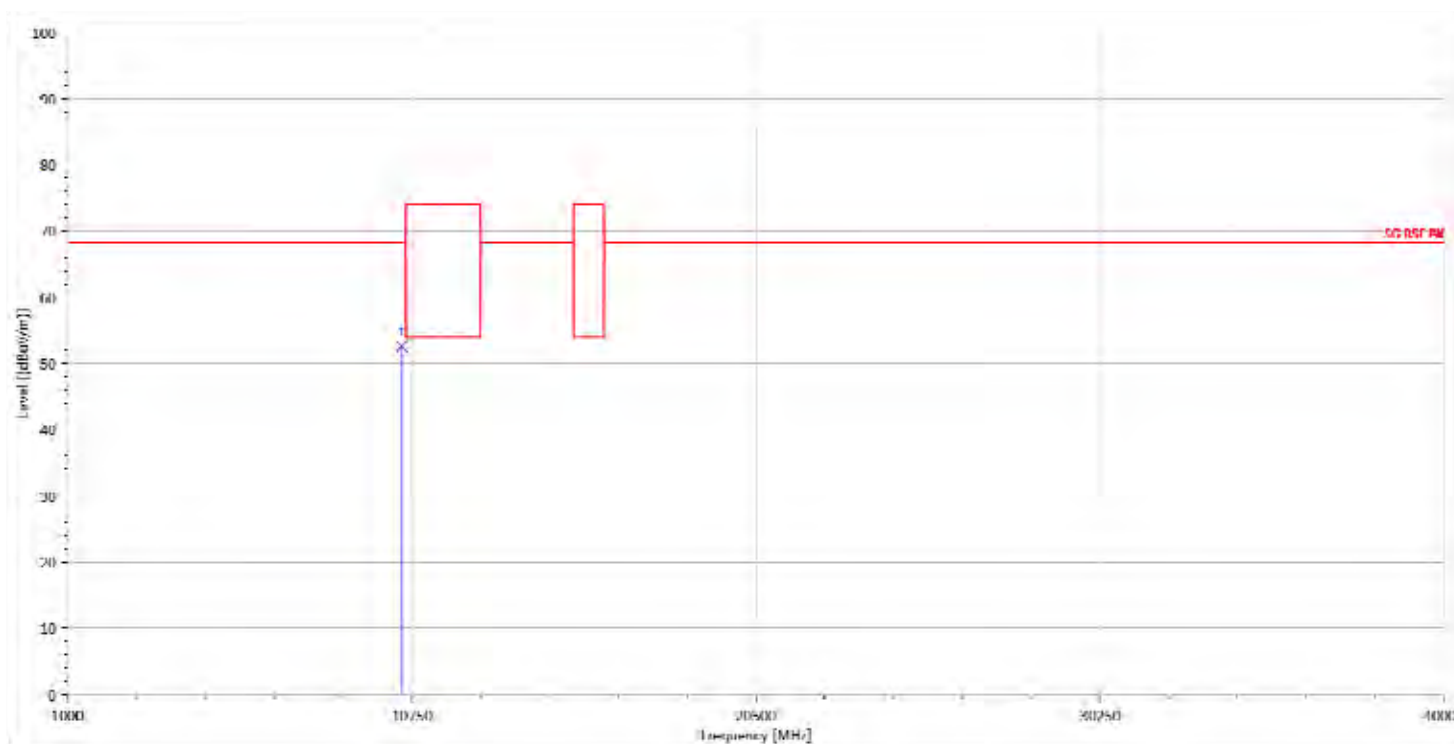
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	H	Peak	30.88	20.29	51.17	68.3	-17.13

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Operation Mode : 802.11aB1 Test Date : 2017/12/14
 Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Enzo
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



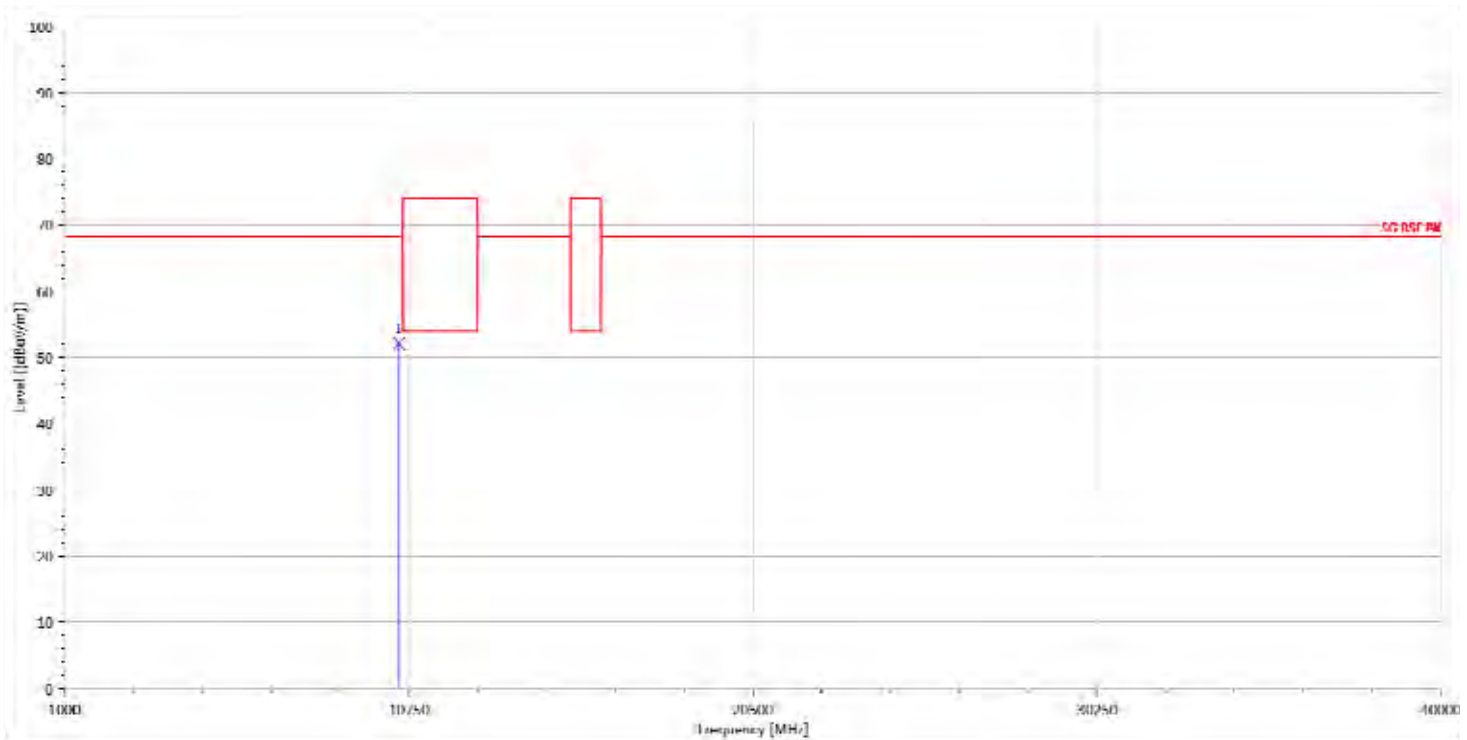
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	H	Peak	31.90	20.68	52.58	68.3	-15.72

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Operation Mode : 802.11aB1 Test Date : 2017/12/14
Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	H	Peak	31.46	20.68	52.14	68.3	-16.16

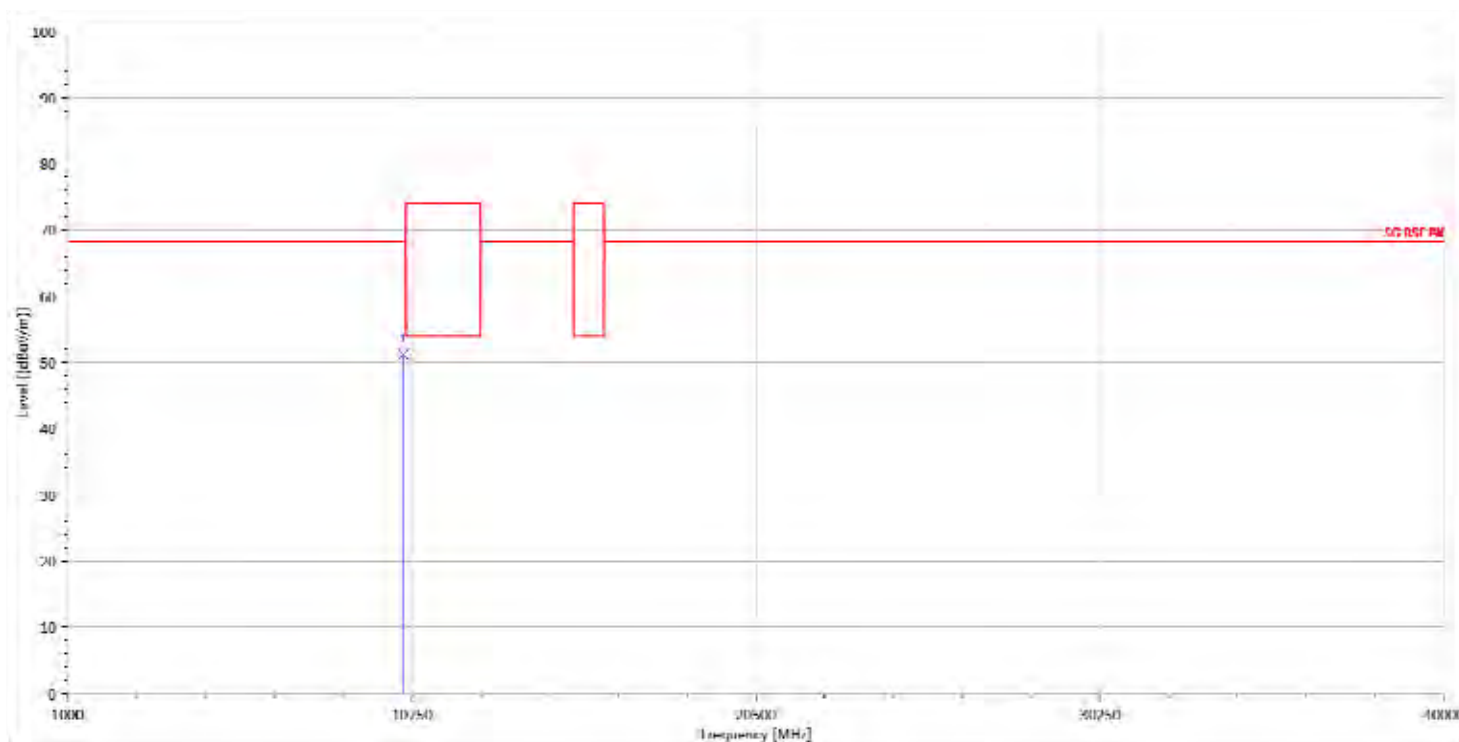
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Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Mode :	802.11aB2	Test Date :	2017/12/14
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



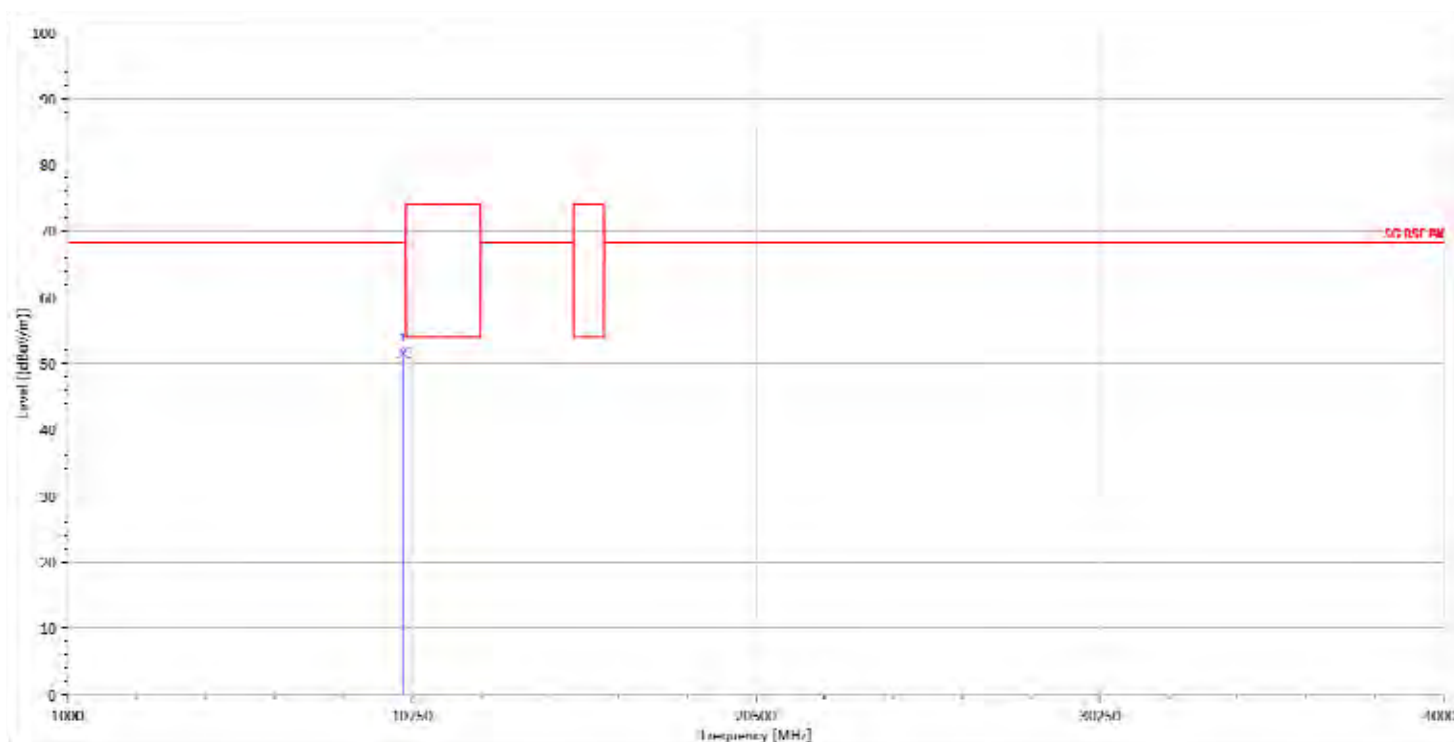
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10520.00	H	Peak	31.14	20.10	51.24	68.3	-17.06

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Operation Mode : 802.11aB2 Test Date : 2017/12/14
 Fundamental Frequency : 5260 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Enzo
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



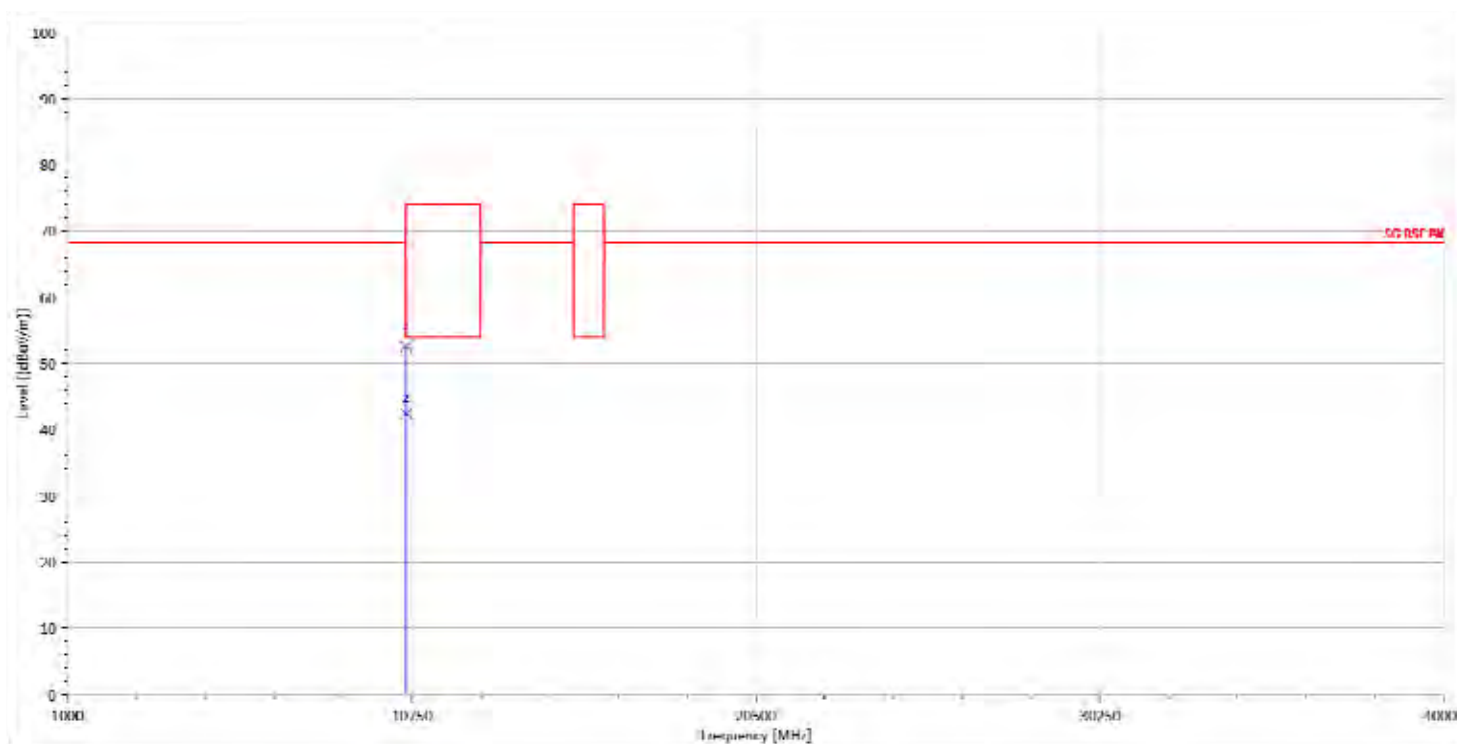
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
10520.00	H	Peak	31.51	20.10	51.61	68.3	-16.69

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Operation Mode :	802.11aB2	Test Date :	2017/12/14
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



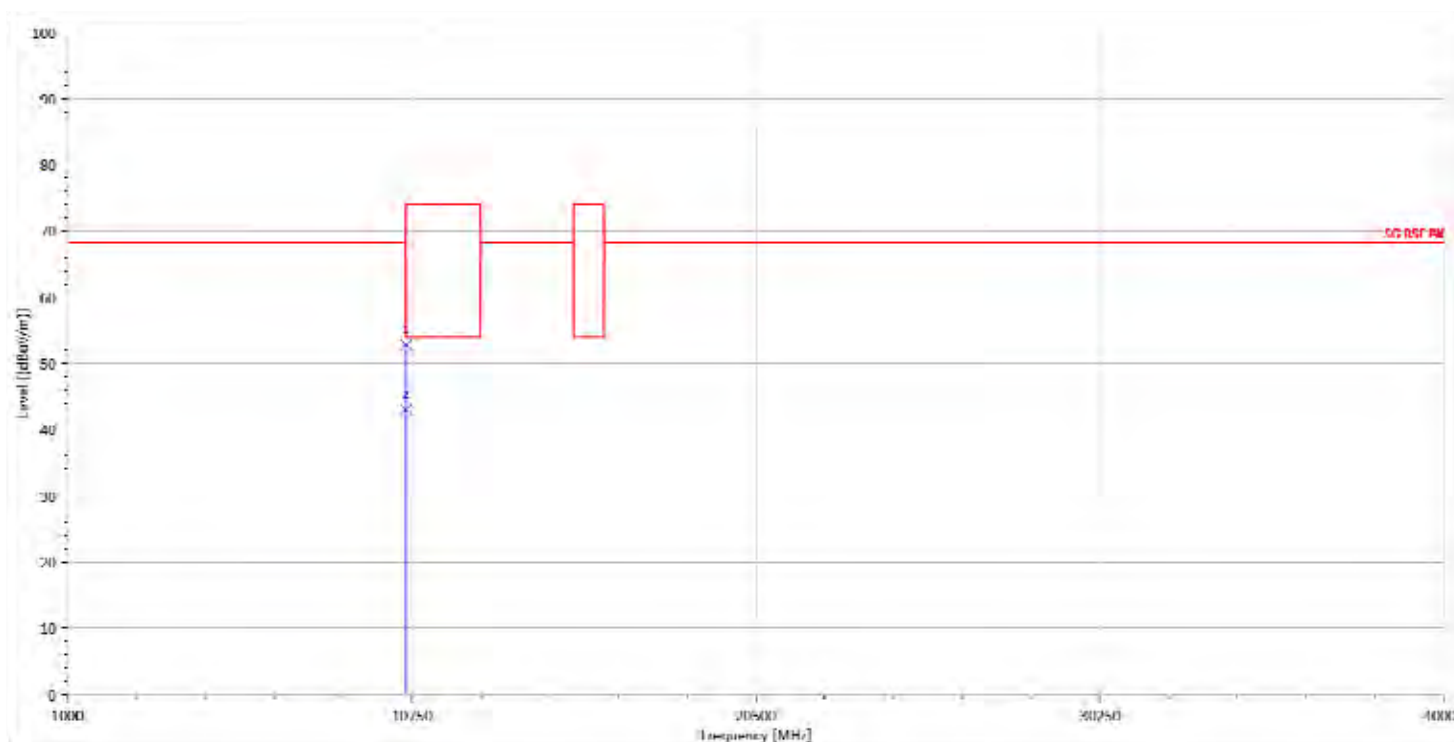
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	H	Peak	31.14	21.44	52.58	74	-21.42
10600.00	H	Average	20.99	21.44	42.43	54	-11.57

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Operation Mode : 802.11aB2 Test Date : 2017/12/14
Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



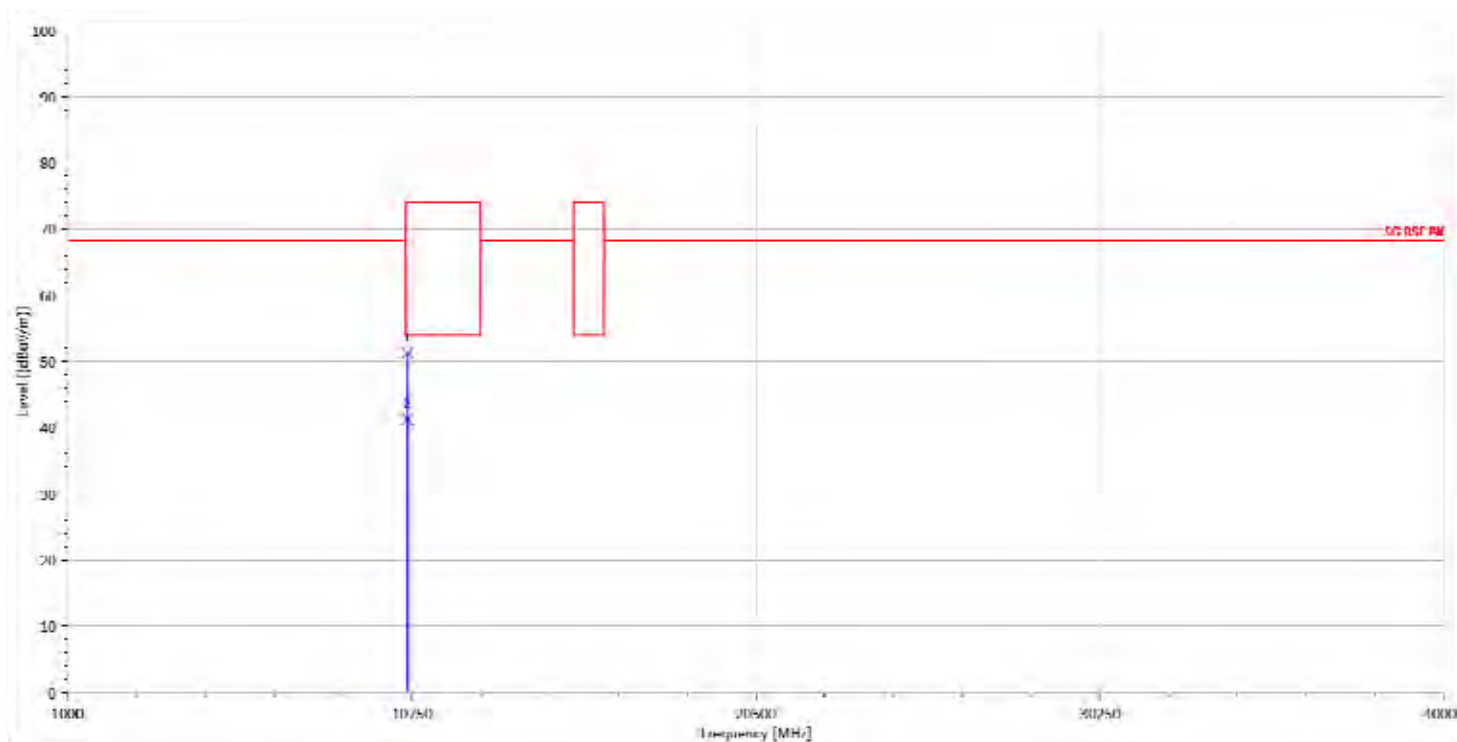
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	H	Peak	30.73	22.11	52.84	74	-21.16
10600.00	H	Average	20.98	22.11	43.09	54	-10.91

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Operation Mode : 802.11aB2 Test Date : 2017/12/14
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Enzo
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



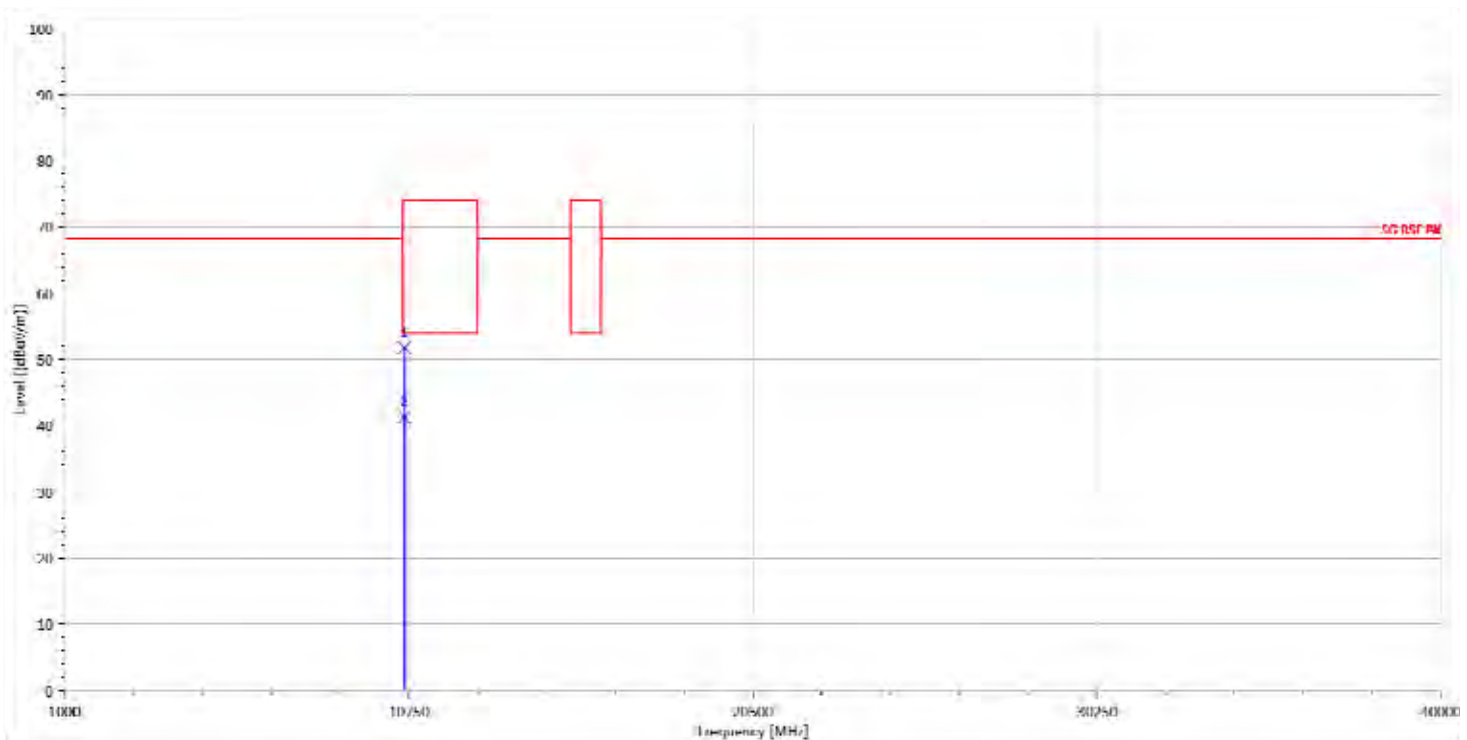
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	H	Peak	30.98	20.34	51.32	74	-22.68
10640.00	H	Average	20.95	20.34	41.29	54	-12.71

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Operation Mode : 802.11aB2 Test Date : 2017/12/14
Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	H	Peak	31.44	20.34	51.78	74	-22.22
10640.00	H	Average	20.96	20.34	41.30	54	-12.70

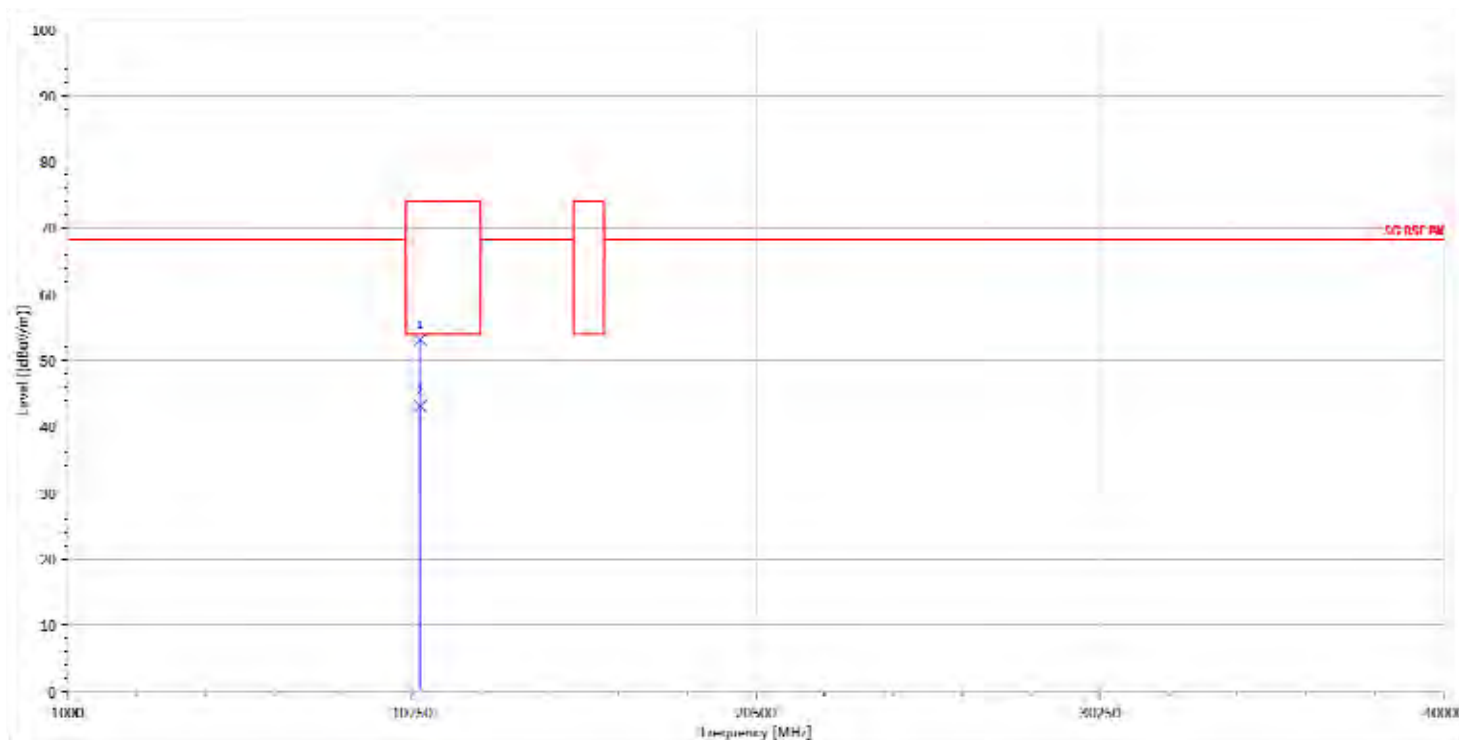
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Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Mode :	802.11aB3	Test Date :	2017/12/14
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	H	Peak	31.05	22.11	53.15	74	-20.85
11000.00	H	Average	21.05	22.11	43.16	54	-10.84

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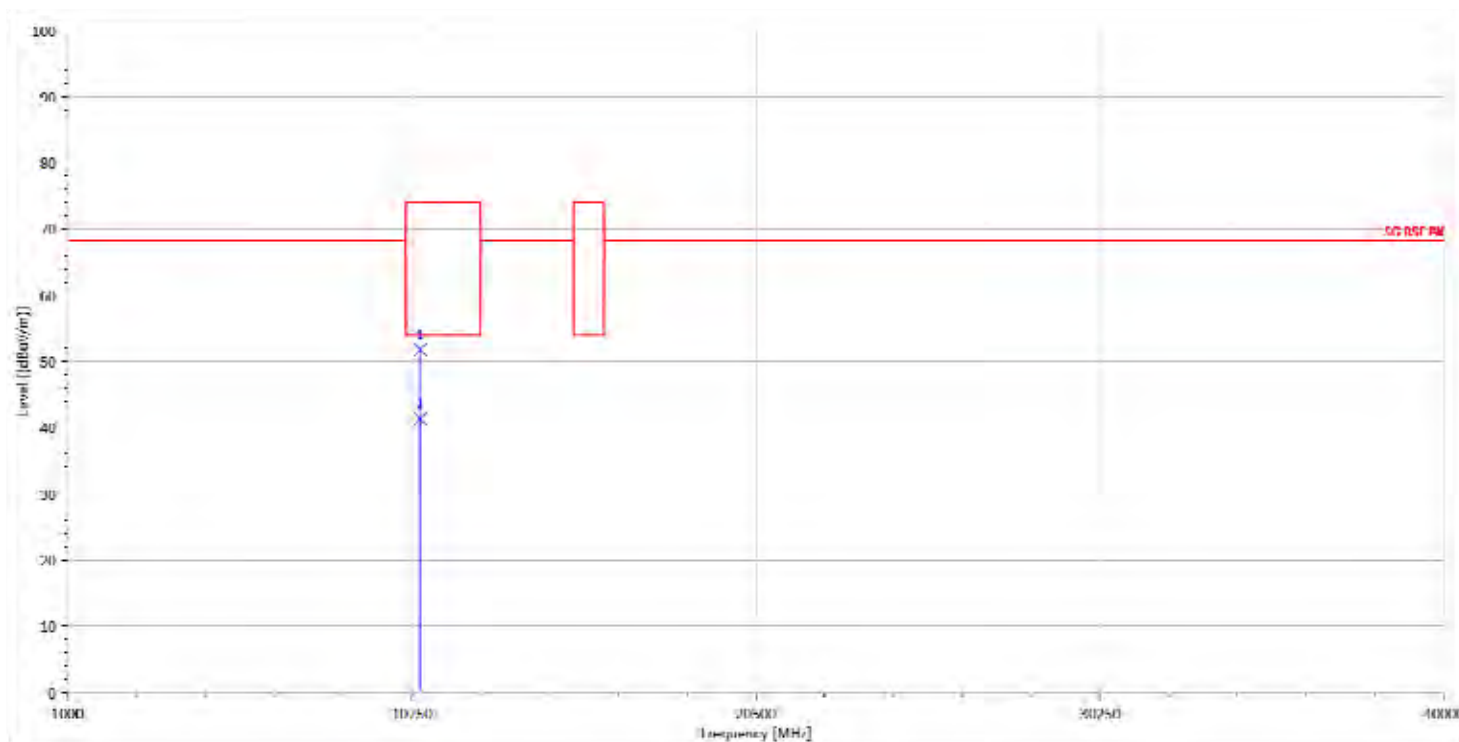
t (886-2) 2299-3279

f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Operation Mode : 802.11aB3 Test Date : 2017/12/14
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Enzo
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



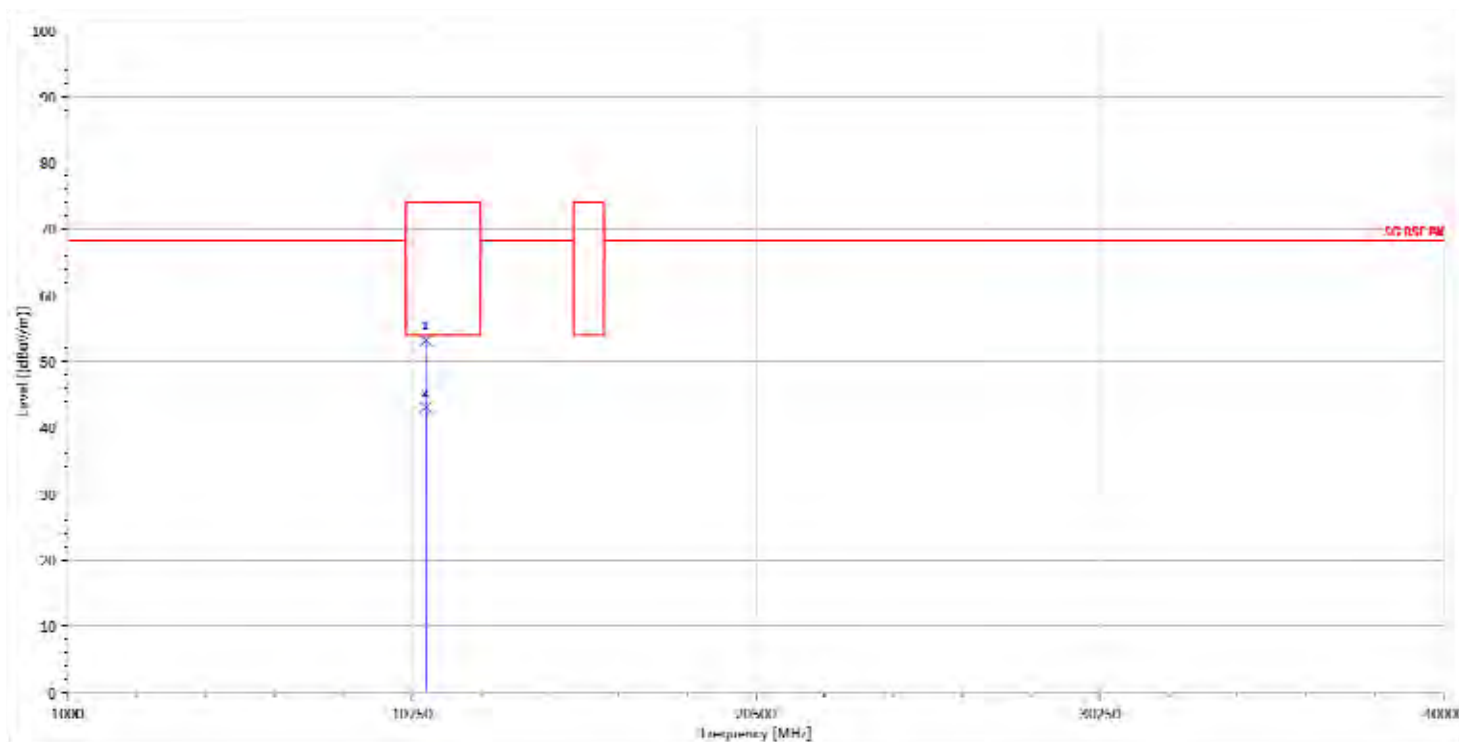
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	H	Peak	31.44	20.34	51.78	74	-22.22
11000.00	H	Average	20.97	20.34	41.31	54	-12.69

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Operation Mode : 802.11aB3 Test Date : 2017/12/14
Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



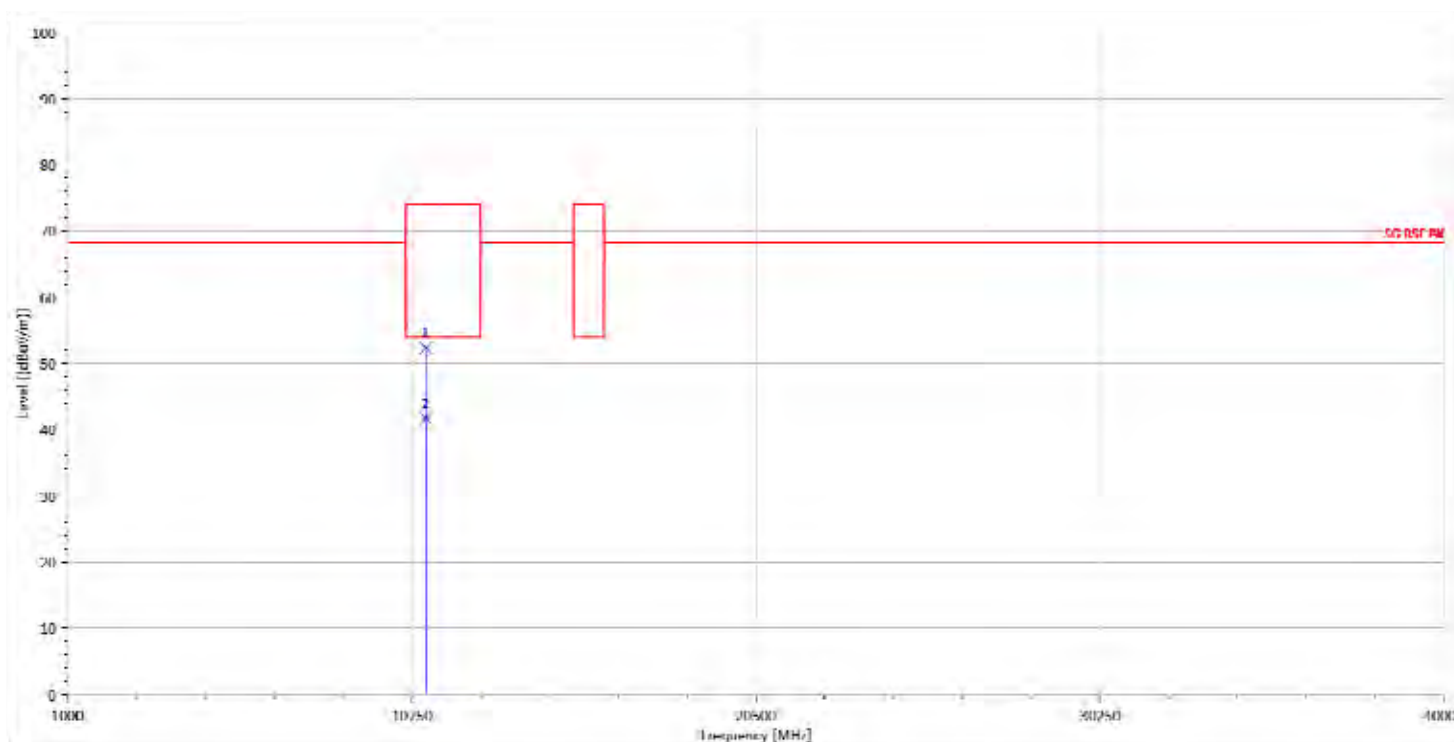
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	H	Peak	31.15	22.04	53.19	74	-20.81
11160.00	H	Average	21.06	22.04	43.10	54	-10.90

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Operation Mode : 802.11aB3 Test Date : 2017/12/14
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Enzo
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



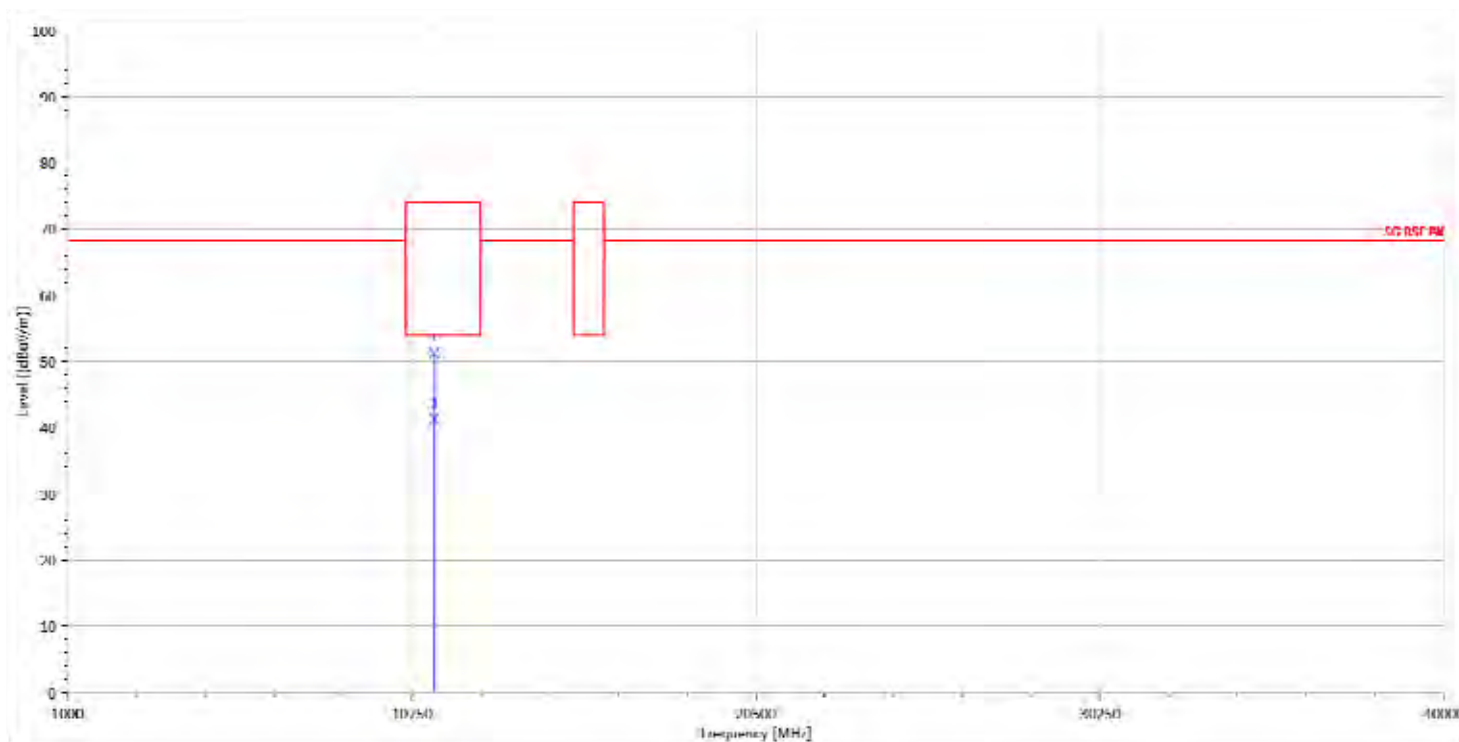
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	H	Peak	31.66	20.70	52.36	74	-21.64
11160.00	H	Average	21.02	20.70	41.72	54	-12.28

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Operation Mode : 802.11aB3 Test Date : 2017/12/14
Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



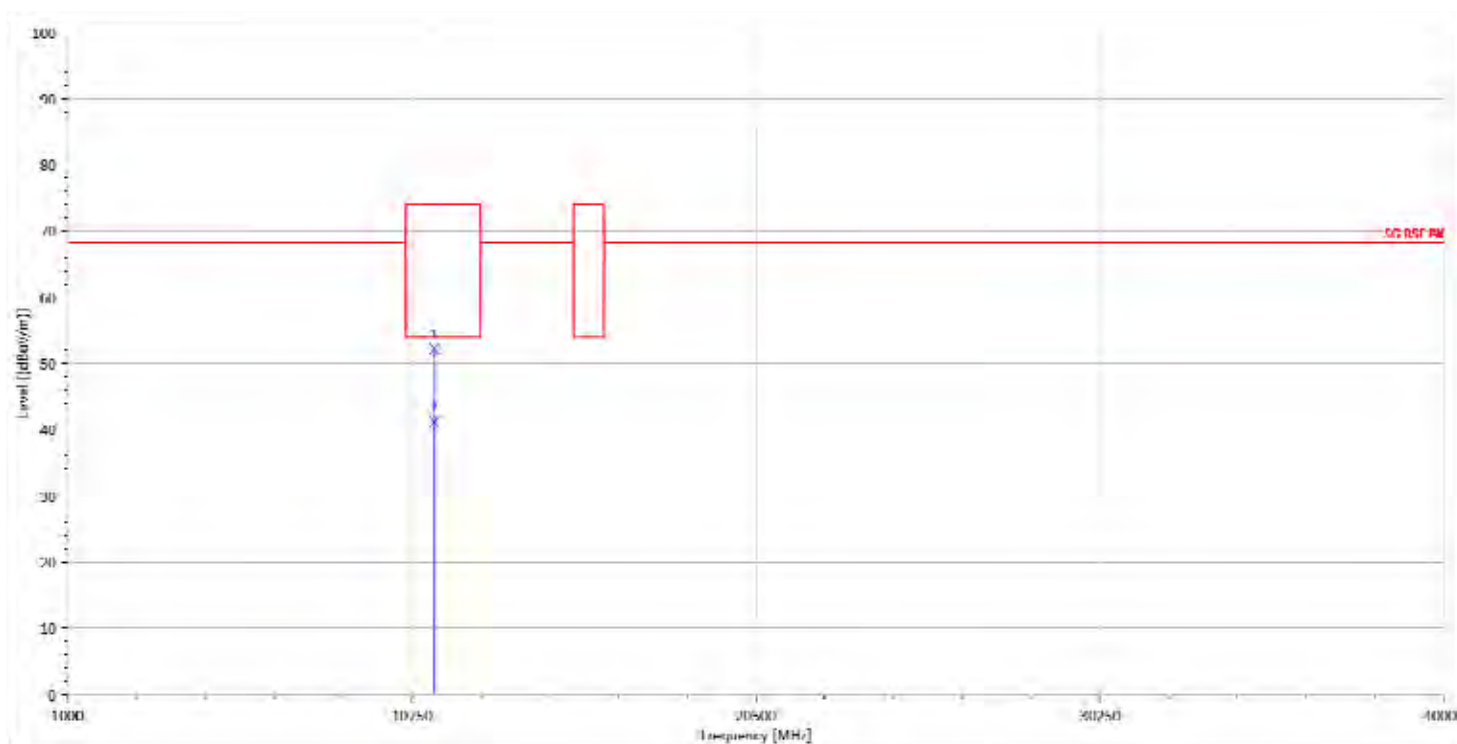
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	H	Peak	30.98	20.34	51.32	74	-22.68
11400.00	H	Average	21.01	20.34	41.35	54	-12.65

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Operation Mode : 802.11aB3 Test Date : 2017/12/14
Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	H	Peak	32.05	20.17	52.22	74	-21.78
11400.00	H	Average	21.01	20.17	41.18	54	-12.82

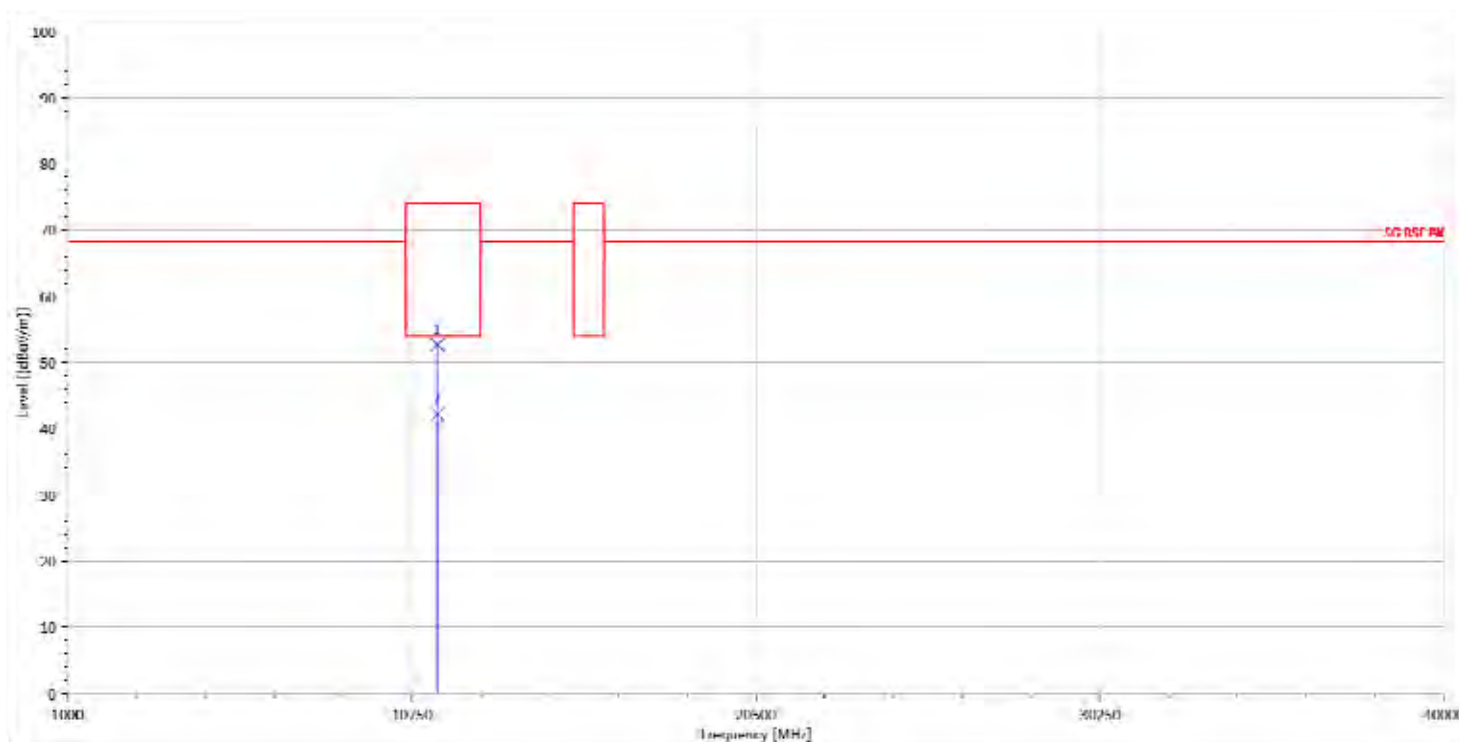
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Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode :	802.11aB4	Test Date :	2017/12/14
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



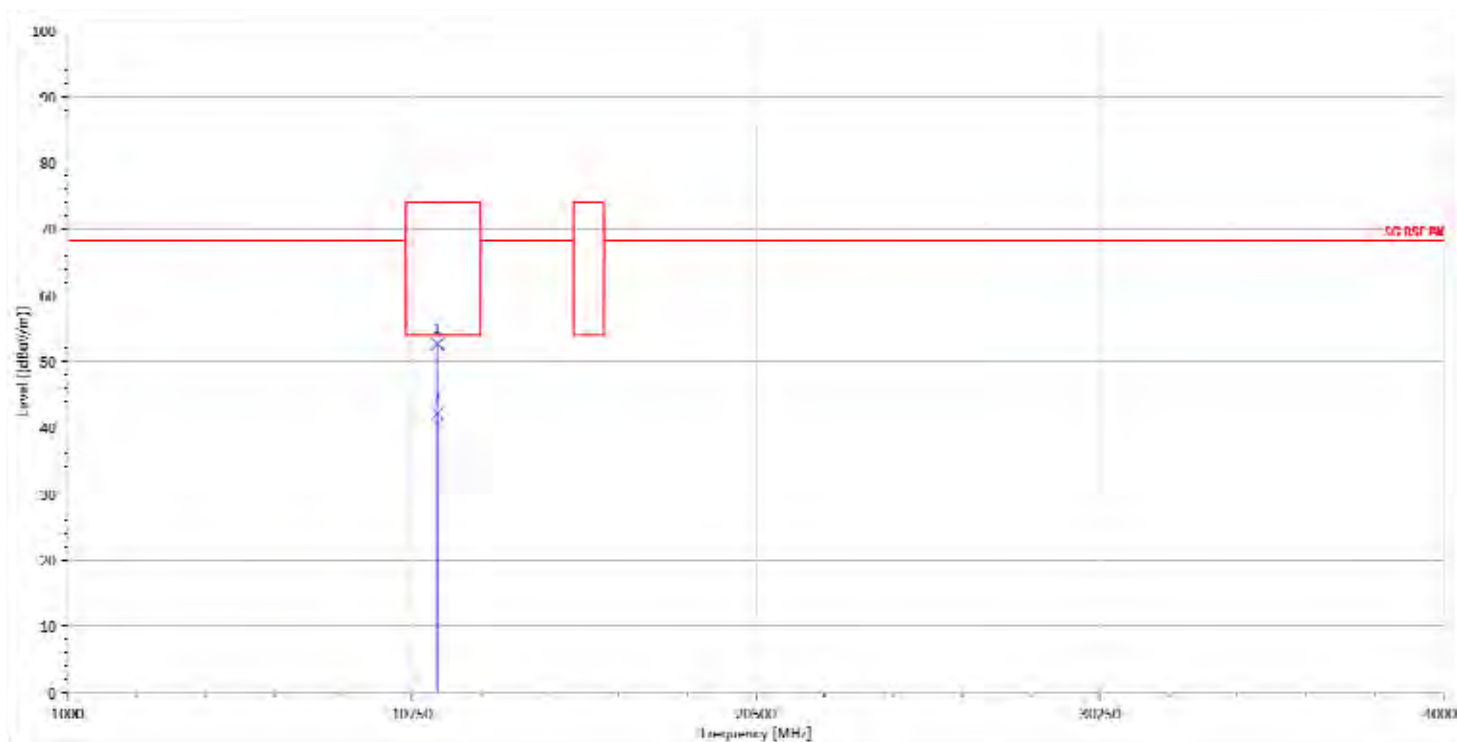
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	H	Peak	31.47	21.22	52.69	74	-21.31
11490.00	H	Average	20.96	21.22	42.18	54	-11.82

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Operation Mode : 802.11aB4 Test Date : 2017/12/14
Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



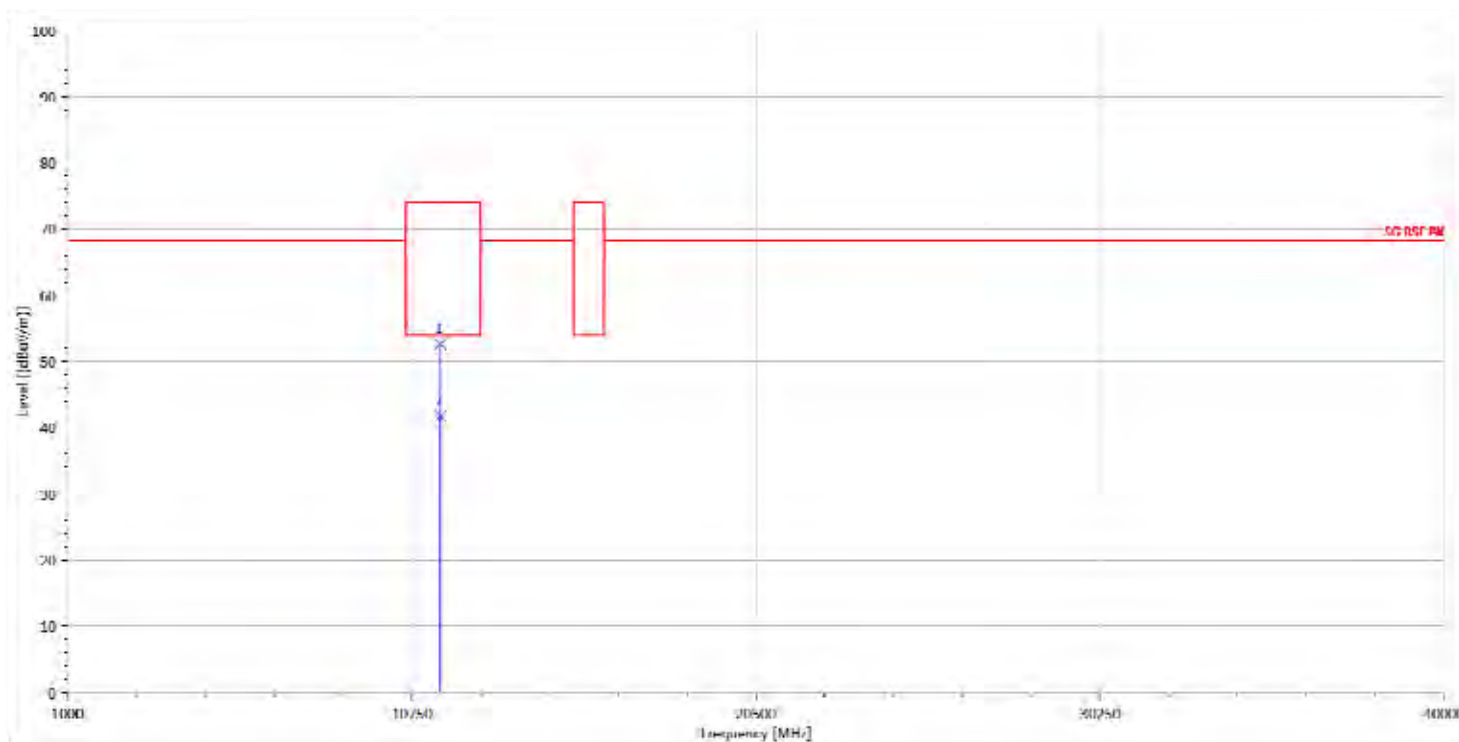
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	H	Peak	31.43	21.22	52.65	74	-21.35
11490.00	H	Average	20.92	21.22	42.14	54	-11.86

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Operation Mode : 802.11aB4 Test Date : 2017/12/14
Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



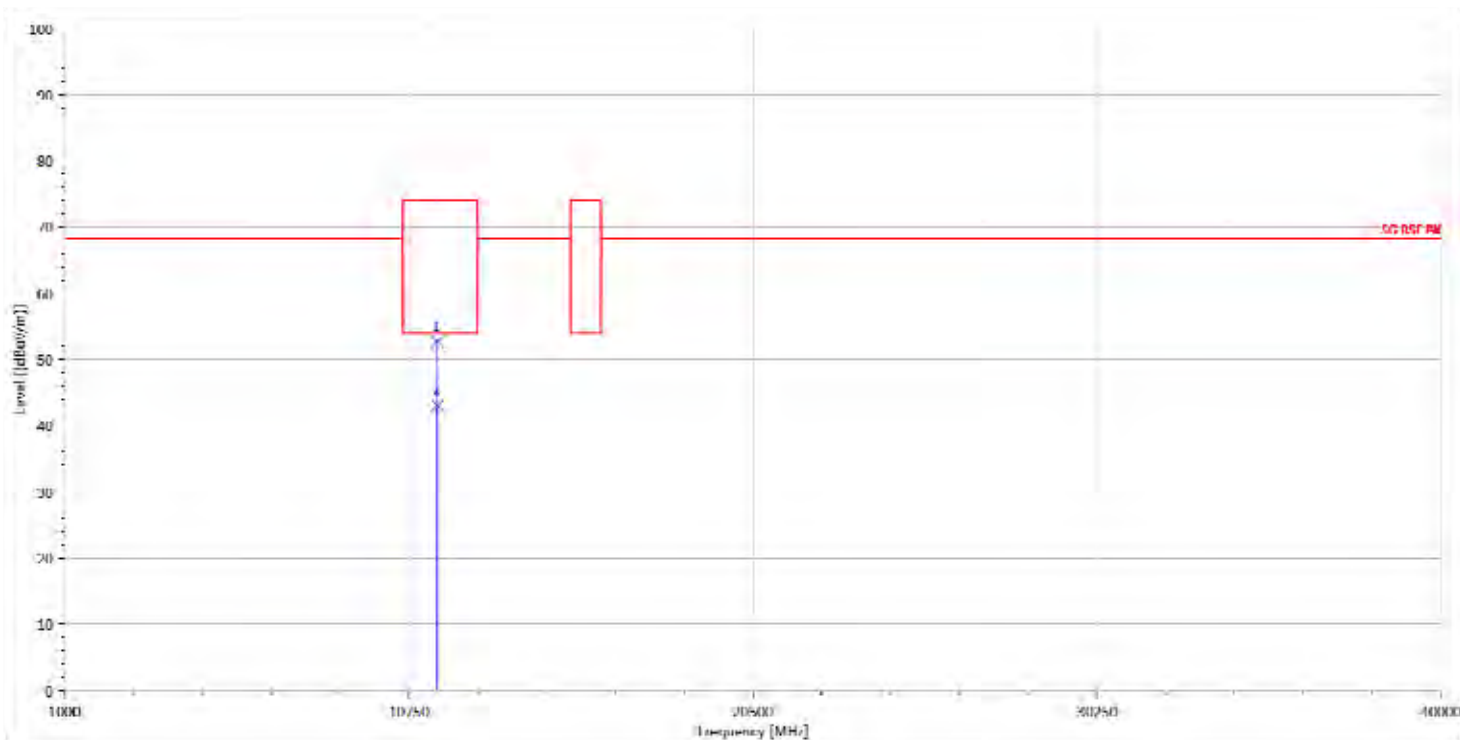
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	H	Peak	31.91	20.70	52.62	74	-21.38
11570.00	H	Average	21.03	20.70	41.73	54	-12.27

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Operation Mode : 802.11aB4 Test Date : 2017/12/14
Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



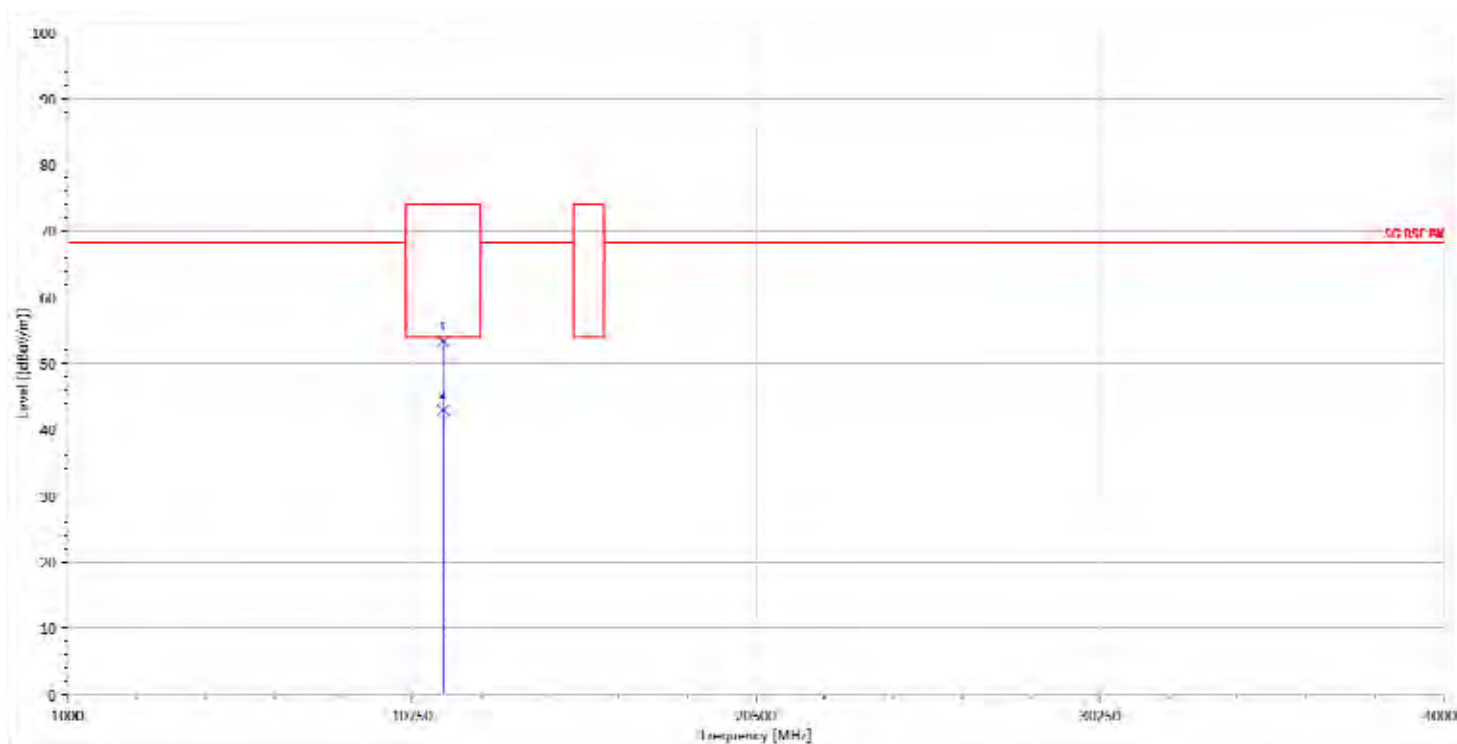
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	H	Peak	30.71	22.04	52.75	74	-21.25
11570.00	H	Average	21.04	22.04	43.08	54	-10.92

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Operation Mode : 802.11aB4 Test Date : 2017/12/14
Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



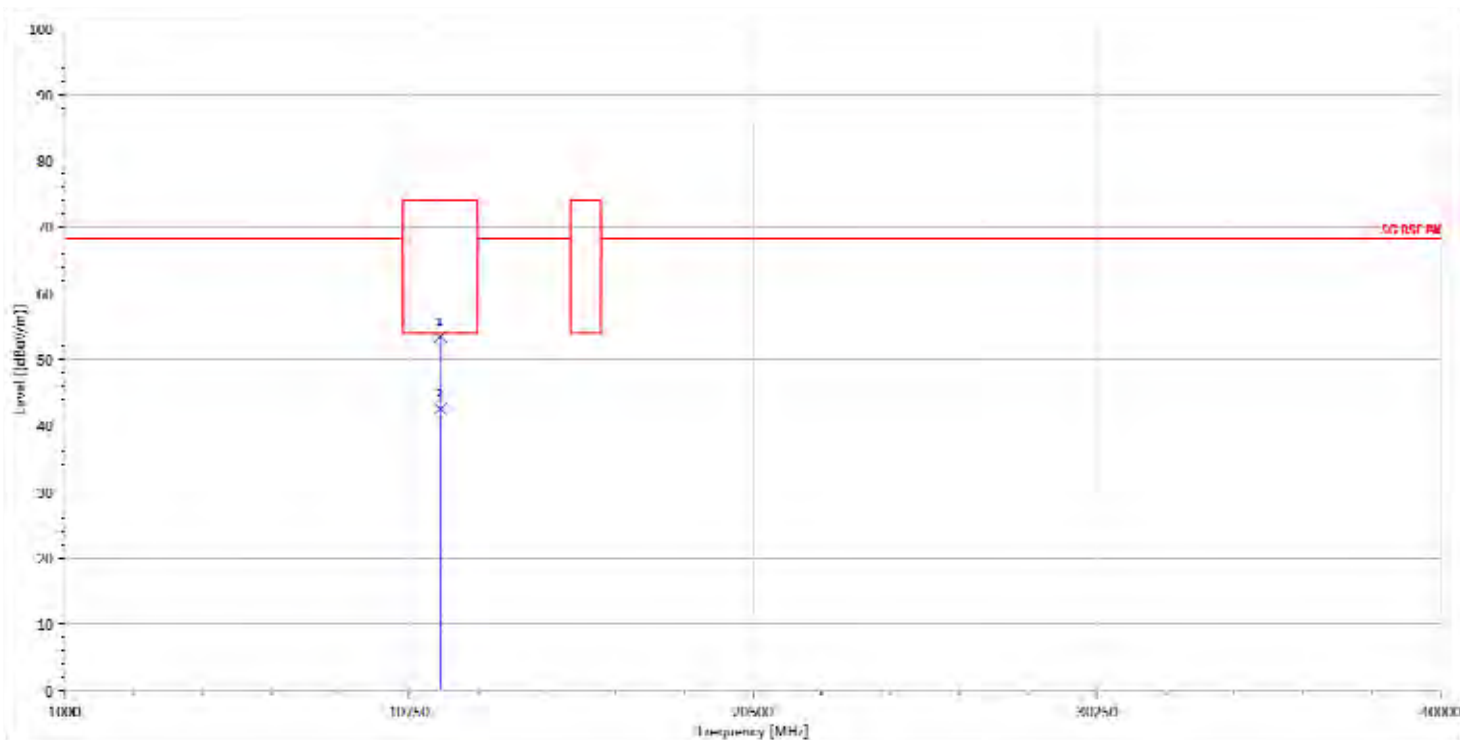
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	H	Peak	31.35	22.02	53.37	74	-20.63
11650.00	H	Average	20.97	22.02	42.99	54	-11.01

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Operation Mode : 802.11aB4 Test Date : 2017/12/14
Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	H	Peak	32.03	21.44	53.47	74	-20.53
11650.00	H	Average	21.08	21.44	42.52	54	-11.48

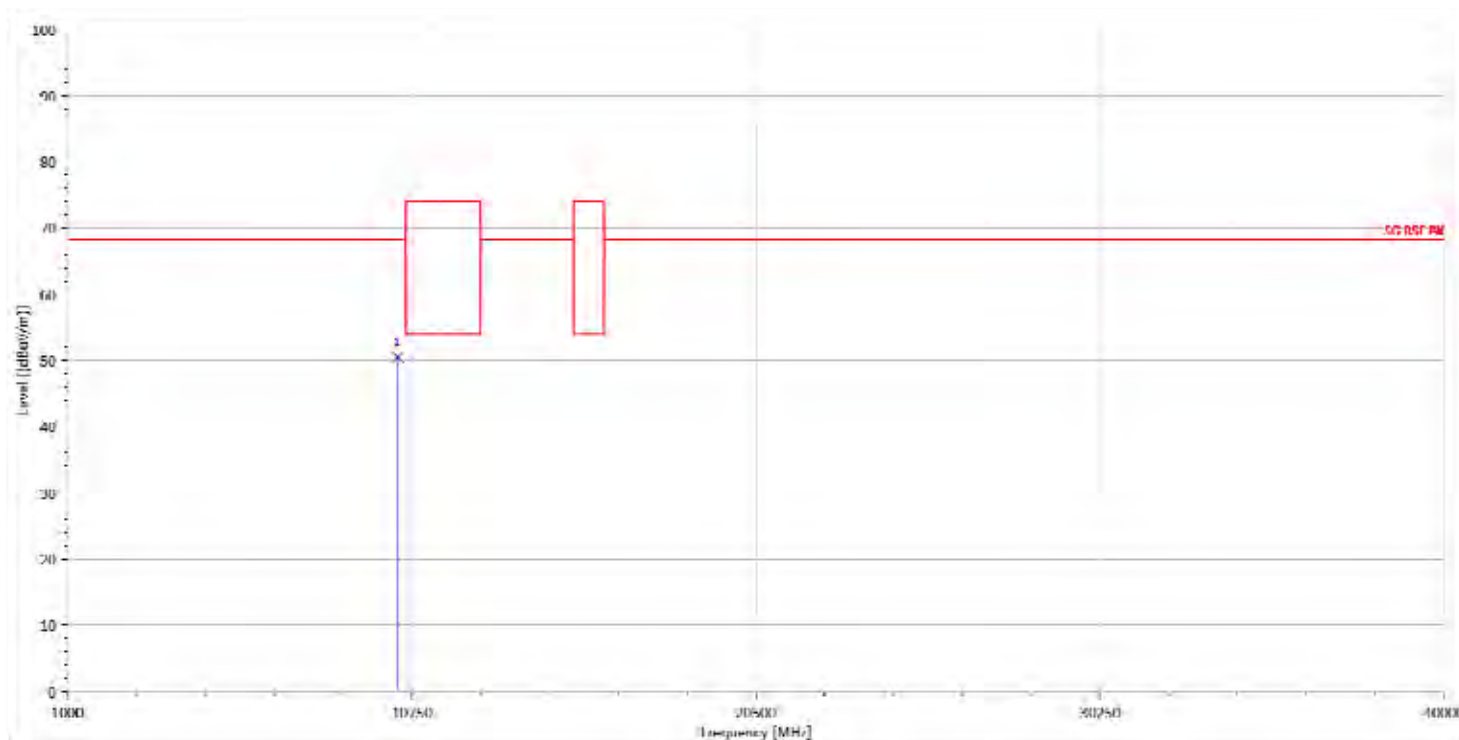
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Mode :	802.11n20B1	Test Date :	2017/12/14
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



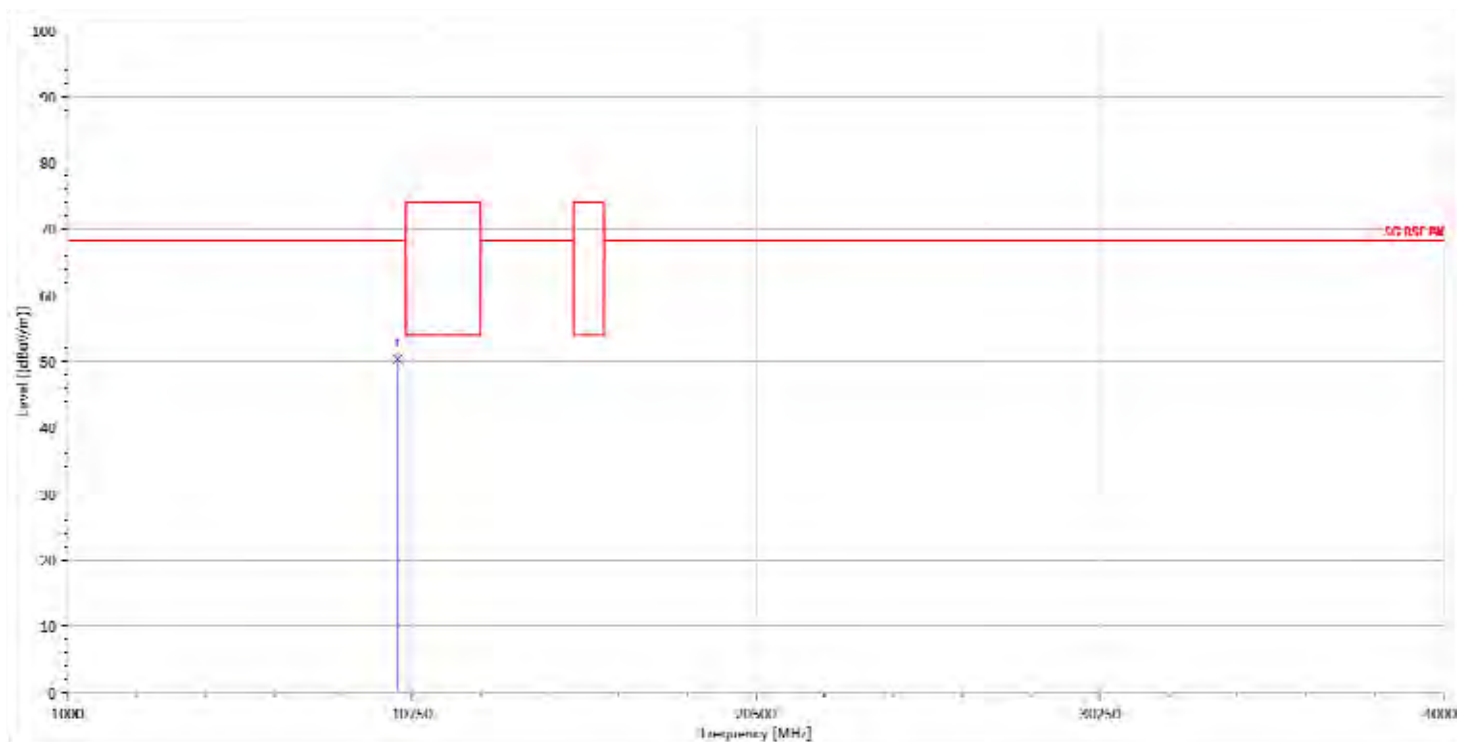
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10360.00	H	Peak	30.32	20.18	50.50	68.3	-17.80

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Operation Mode : 802.11n20B1 Test Date : 2017/12/14
Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



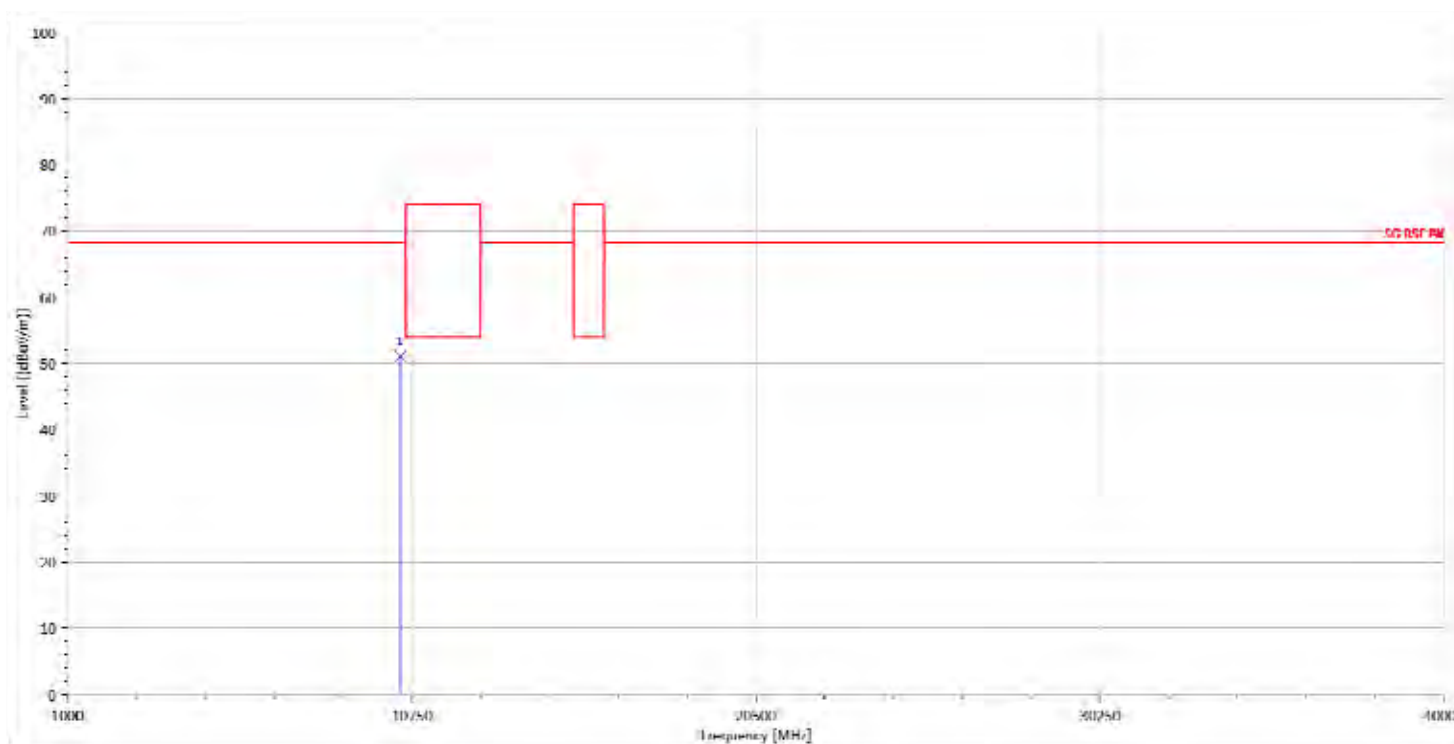
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	H	Peak	30.17	20.18	50.35	68.3	-17.95

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Operation Mode :	802.11n20B1	Test Date :	2017/12/14
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



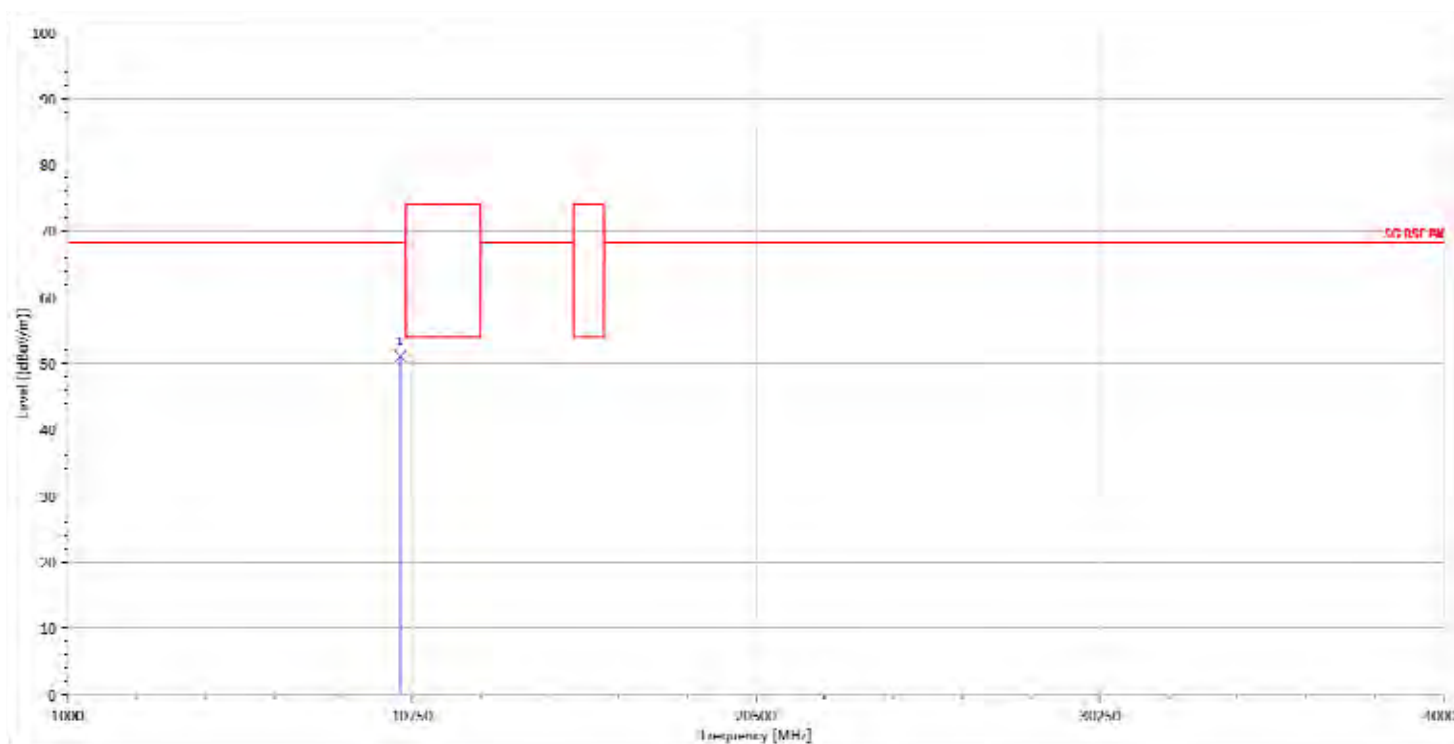
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	H	Peak	30.83	20.29	51.13	68.3	-17.17

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Operation Mode :	802.11n20B1	Test Date :	2017/12/14
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



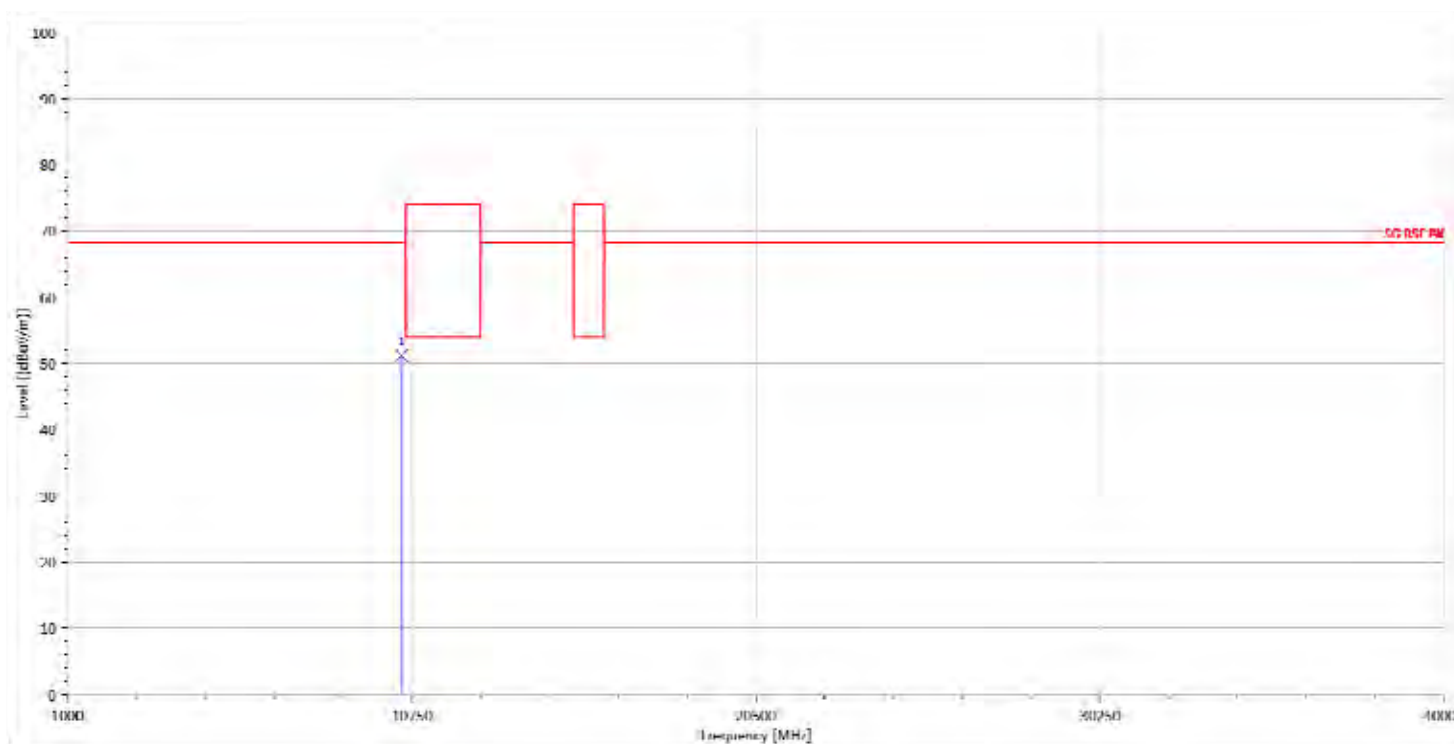
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	H	Peak	30.85	20.29	51.14	68.3	-17.16

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Operation Mode :	802.11n20B1	Test Date :	2017/12/14
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



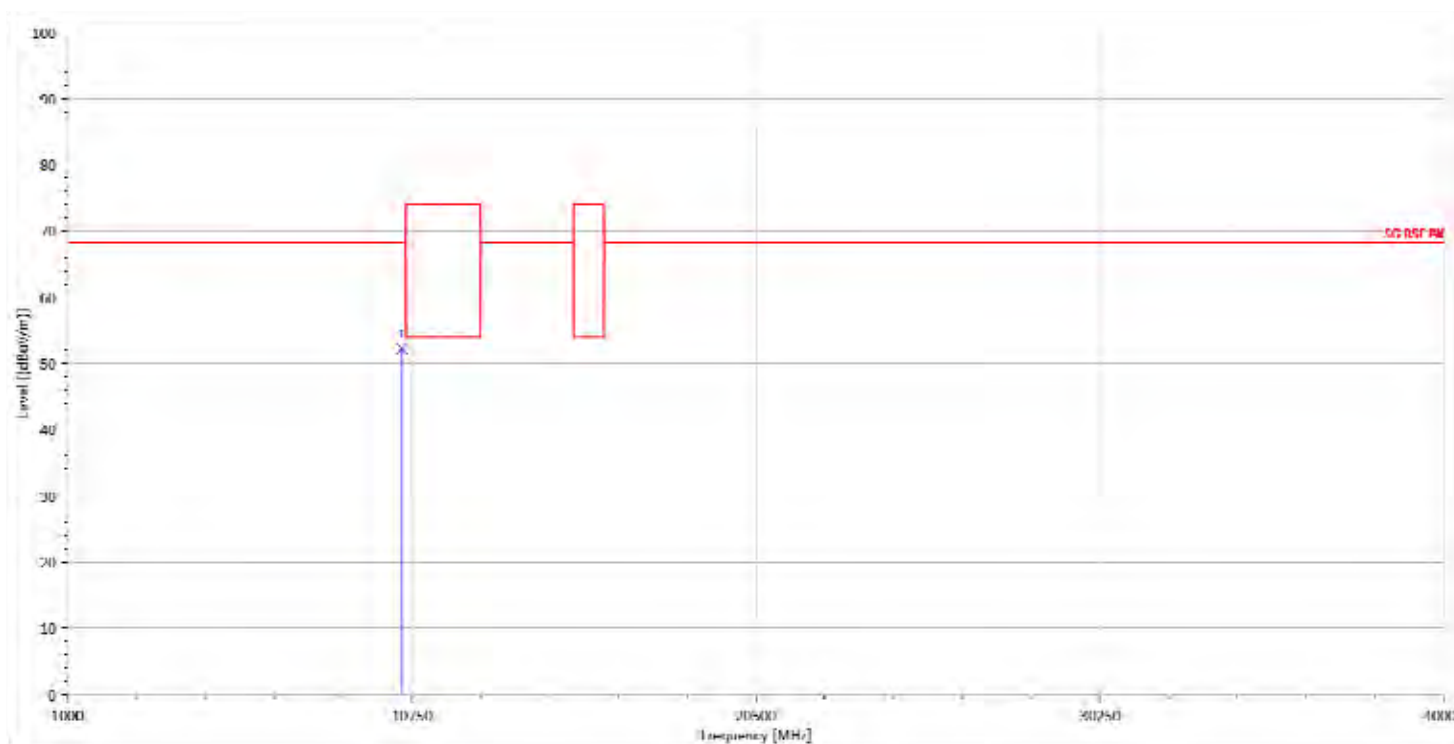
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	H	Peak	30.54	20.68	51.22	68.3	-17.08

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Operation Mode :	802.11n20B1	Test Date :	2017/12/14
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	H	Peak	31.57	20.68	52.25	68.3	-16.05

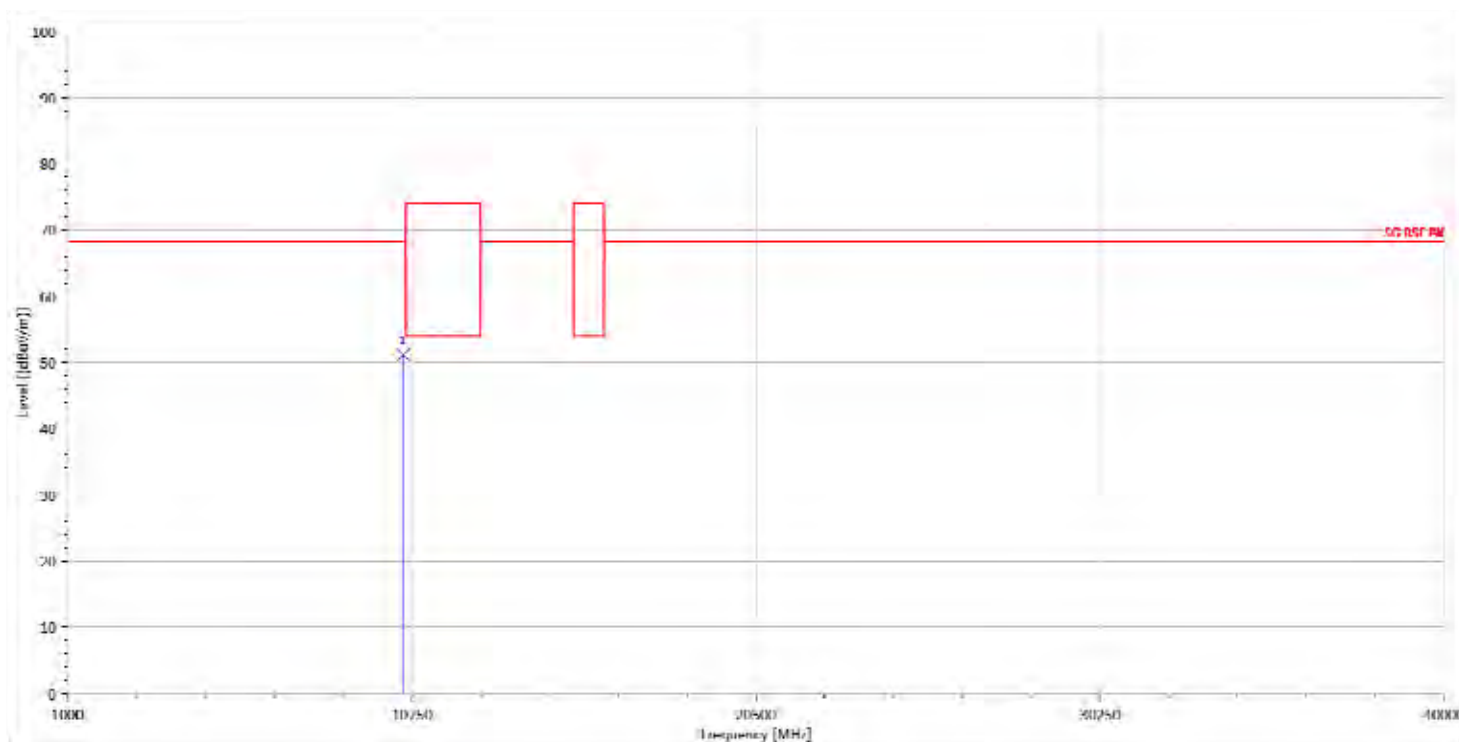
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Mode :	802.11n20B2	Test Date :	2017/12/14
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



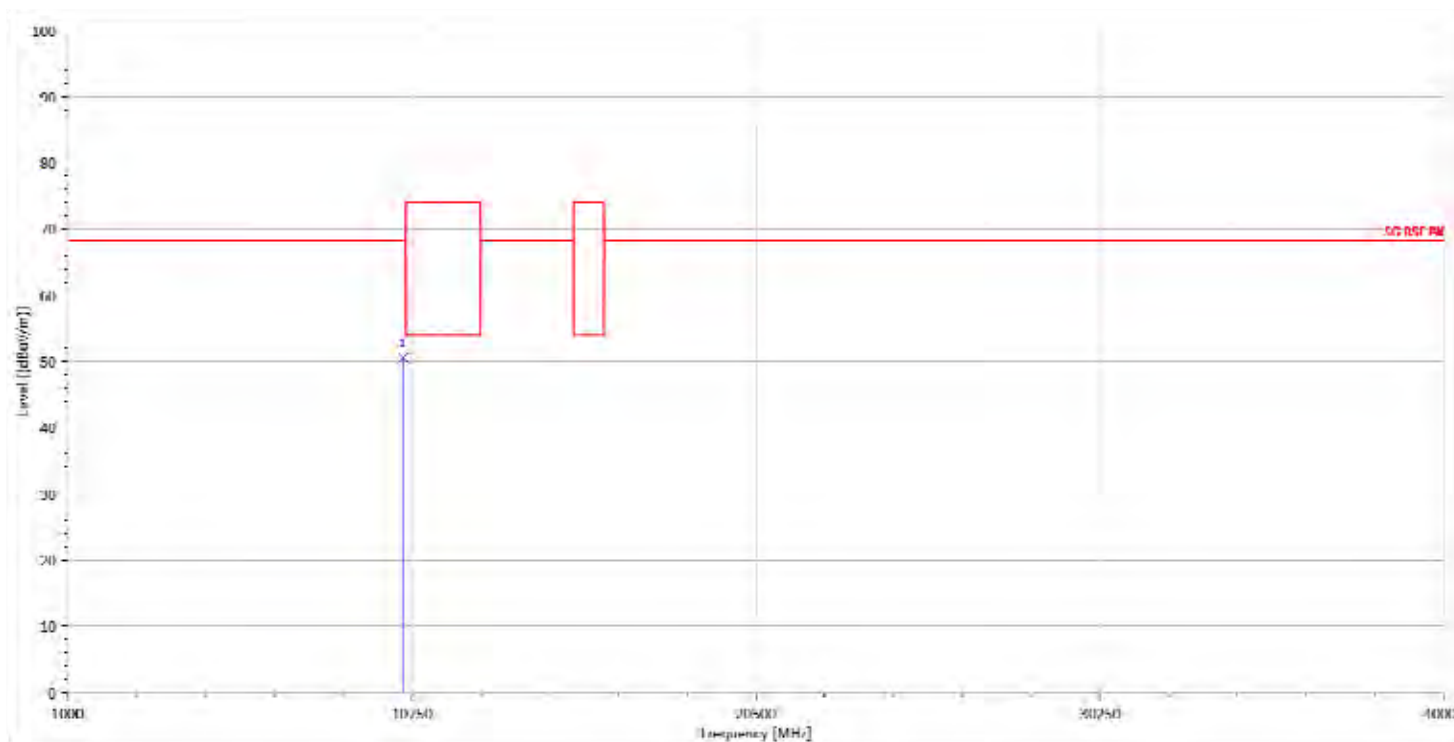
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.00	H	Peak	31.07	20.10	51.17	68.3	-17.13

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Operation Mode : 802.11n20B2 Test Date : 2017/12/14
Fundamental Frequency : 5260 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



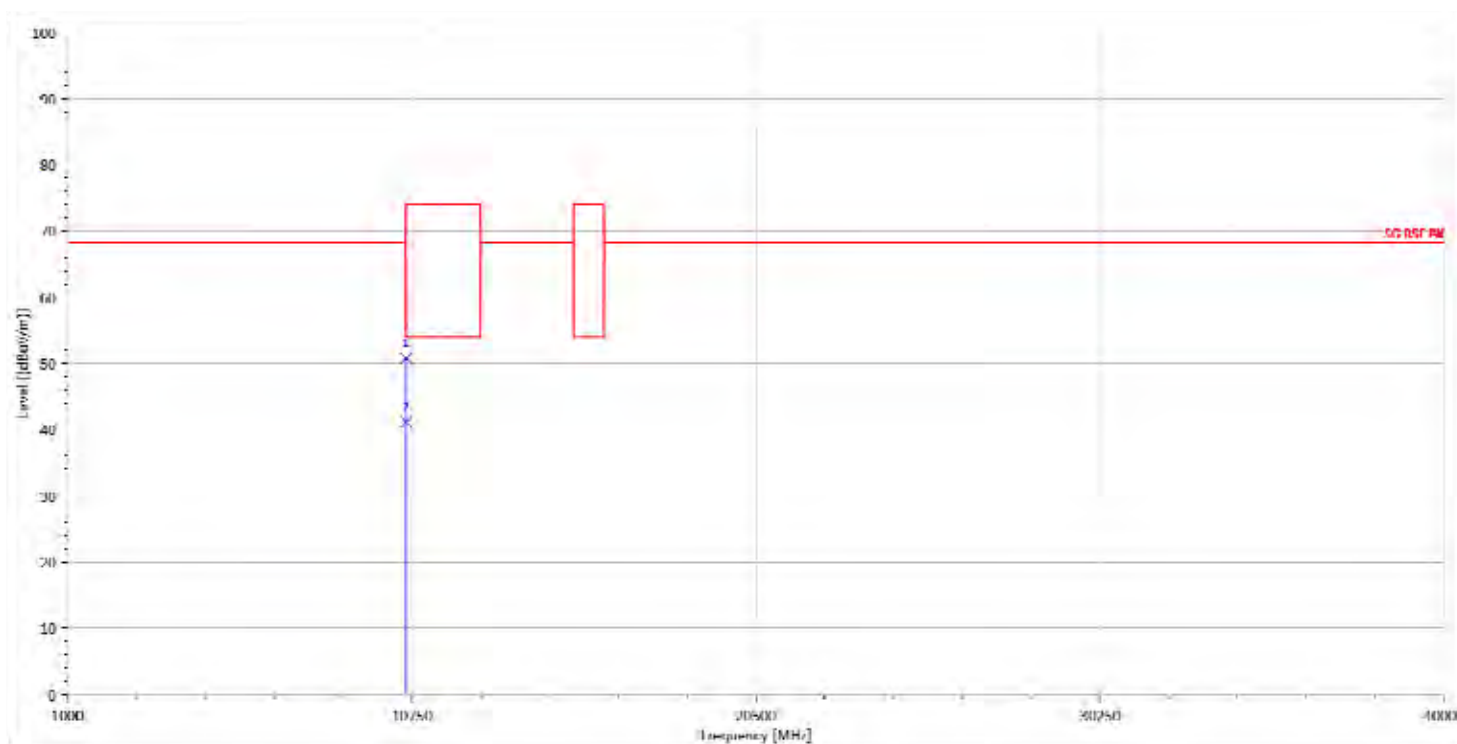
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
10520.00	H	Peak	30.48	20.10	50.58	68.3	-17.72

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Operation Mode :	802.11n20B2	Test Date :	2017/12/14
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



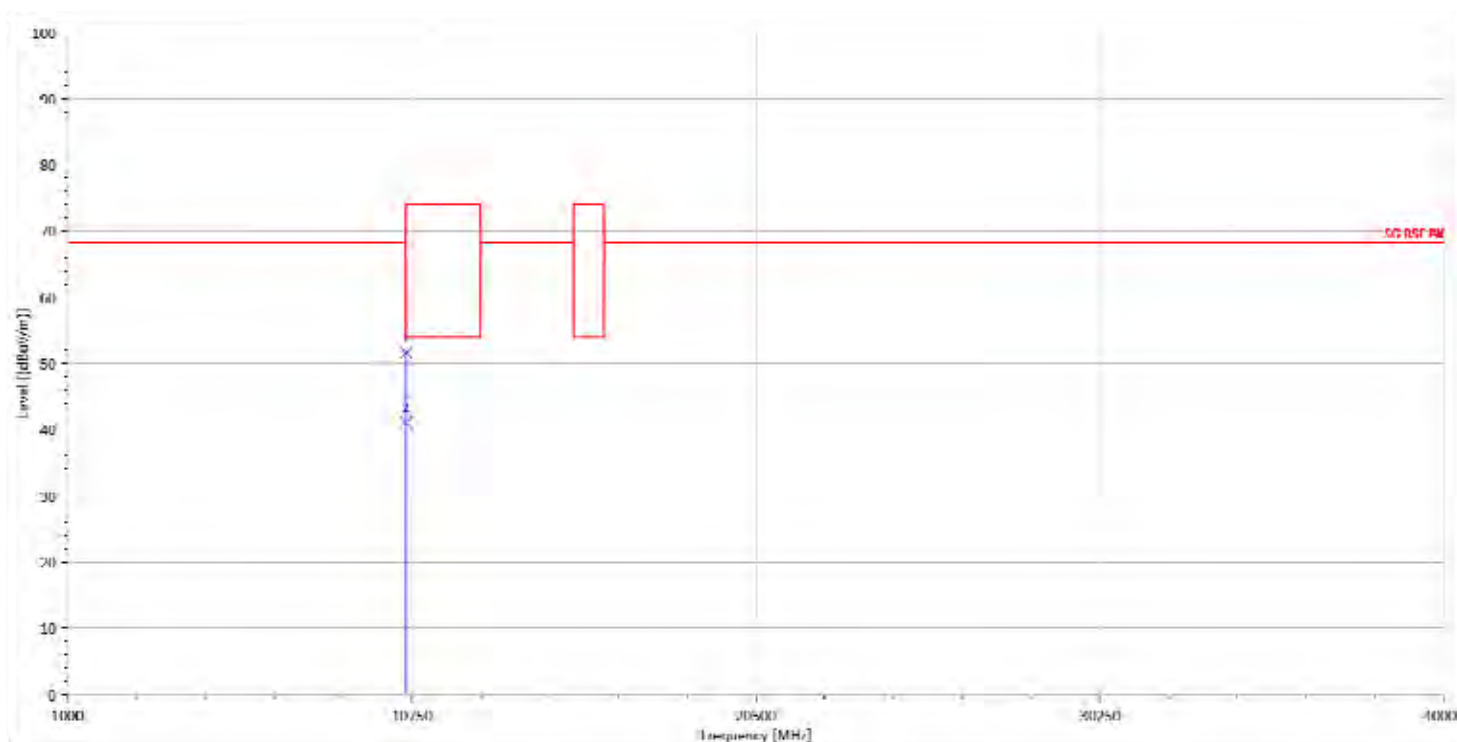
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	H	Peak	30.65	20.17	50.81	74	-23.19
10600.00	H	Average	20.98	20.17	41.15	54	-12.85

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Operation Mode :	802.11n20B2	Test Date :	2017/12/14
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



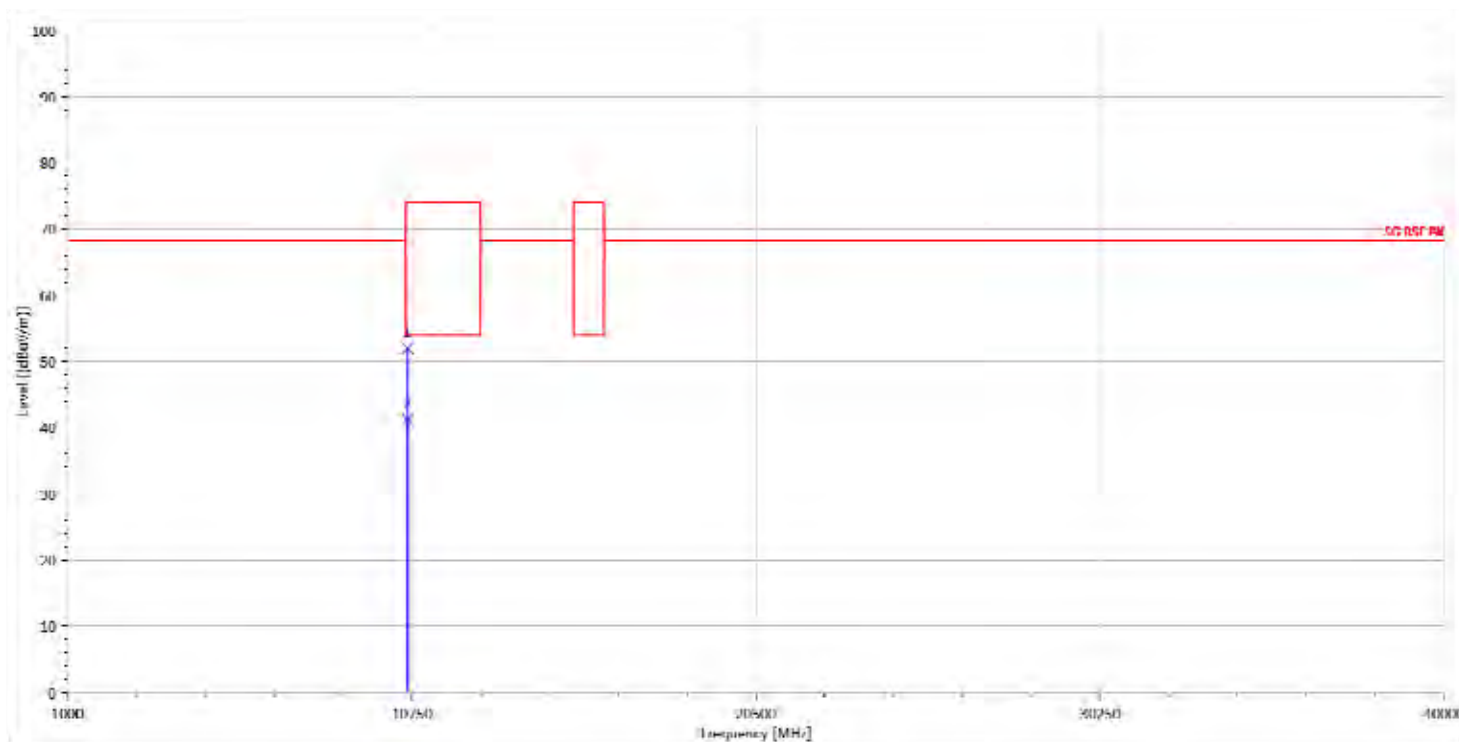
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	H	Peak	31.46	20.17	51.63	74	-22.37
10600.00	H	Average	20.94	20.17	41.11	54	-12.89

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Operation Mode :	802.11n20B2	Test Date :	2017/12/14
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



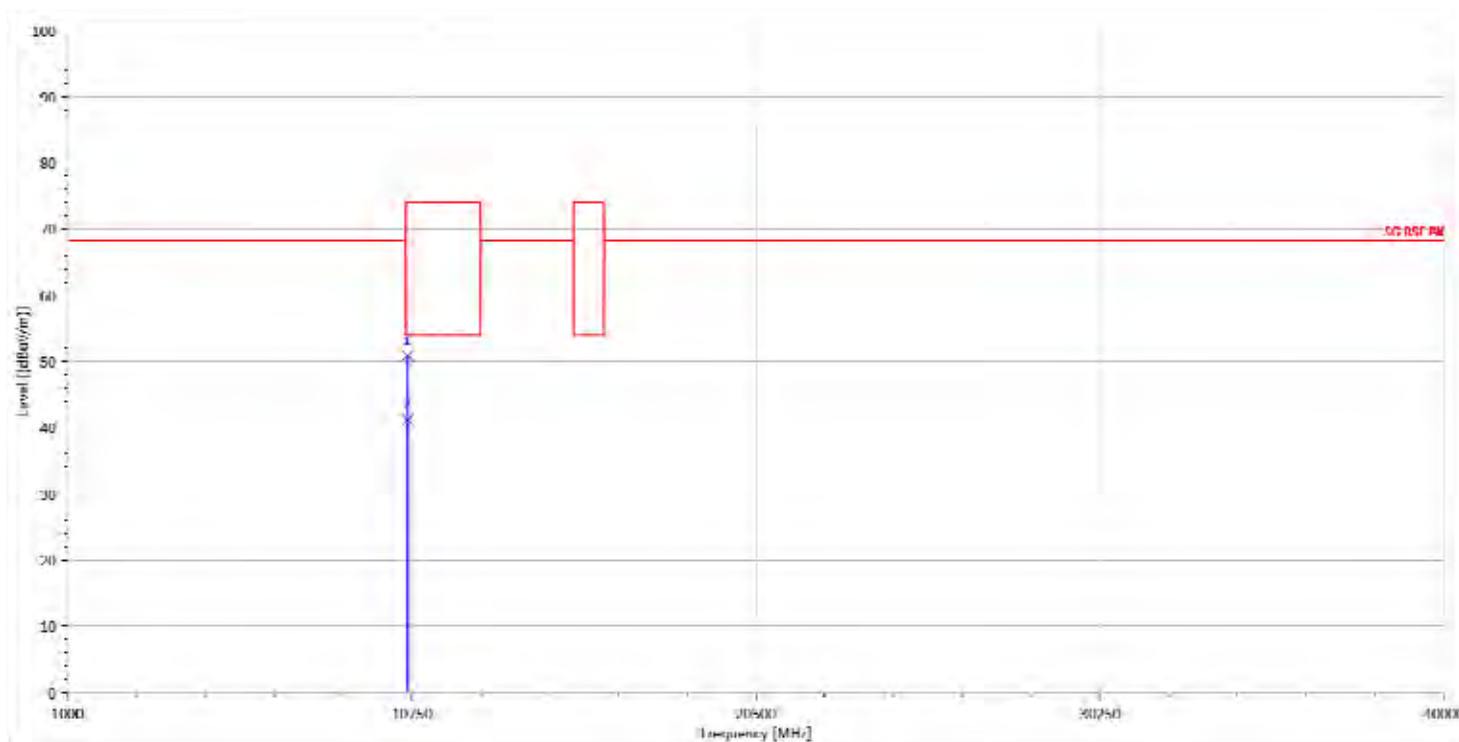
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	H	Peak	31.66	20.34	52.00	74	-22.00
10640.00	H	Average	20.88	20.34	41.22	54	-12.78

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Operation Mode :	802.11n20B2	Test Date :	2017/12/14
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	H	Peak	30.54	20.34	50.88	74	-23.12
10640.00	H	Average	20.85	20.34	41.19	54	-12.81

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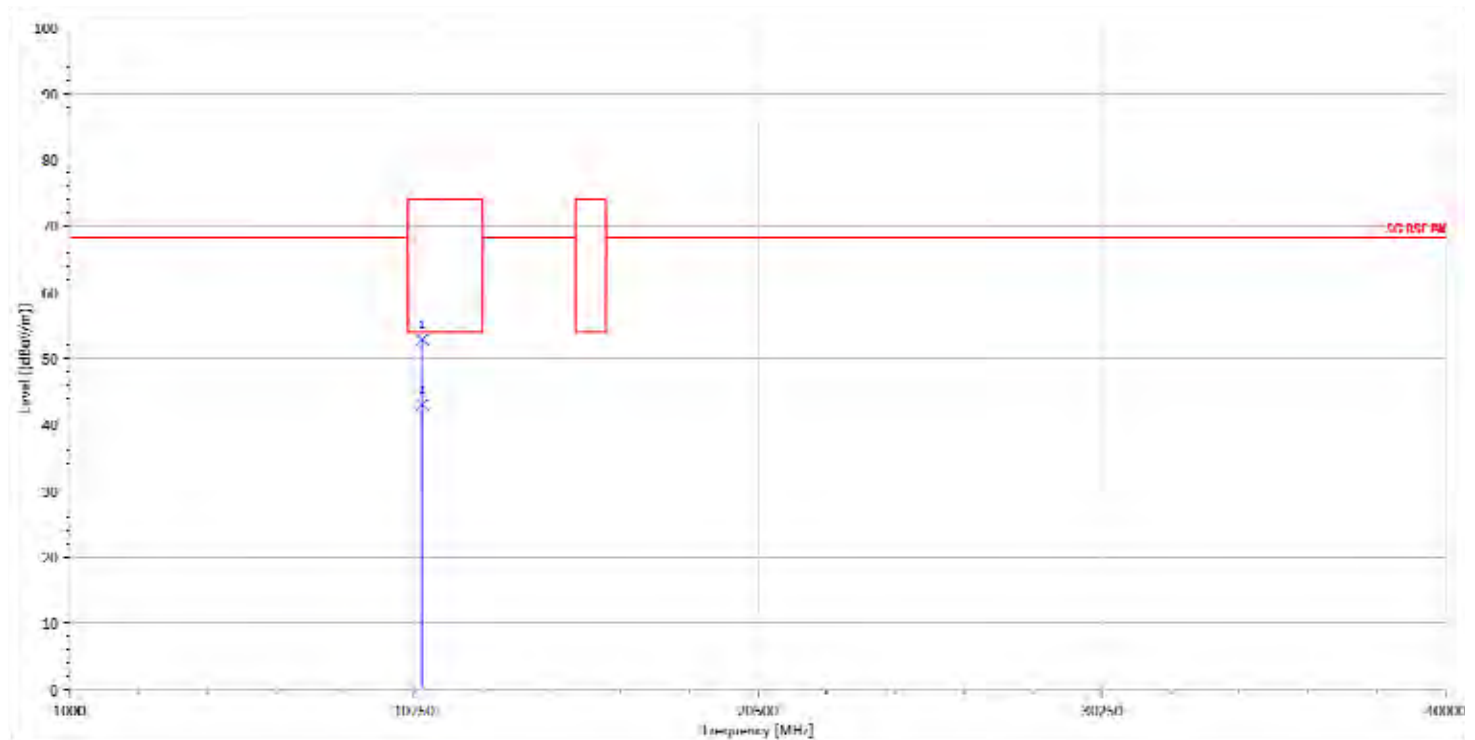
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Mode :	802.11n20B3	Test Date :	2017/12/14
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



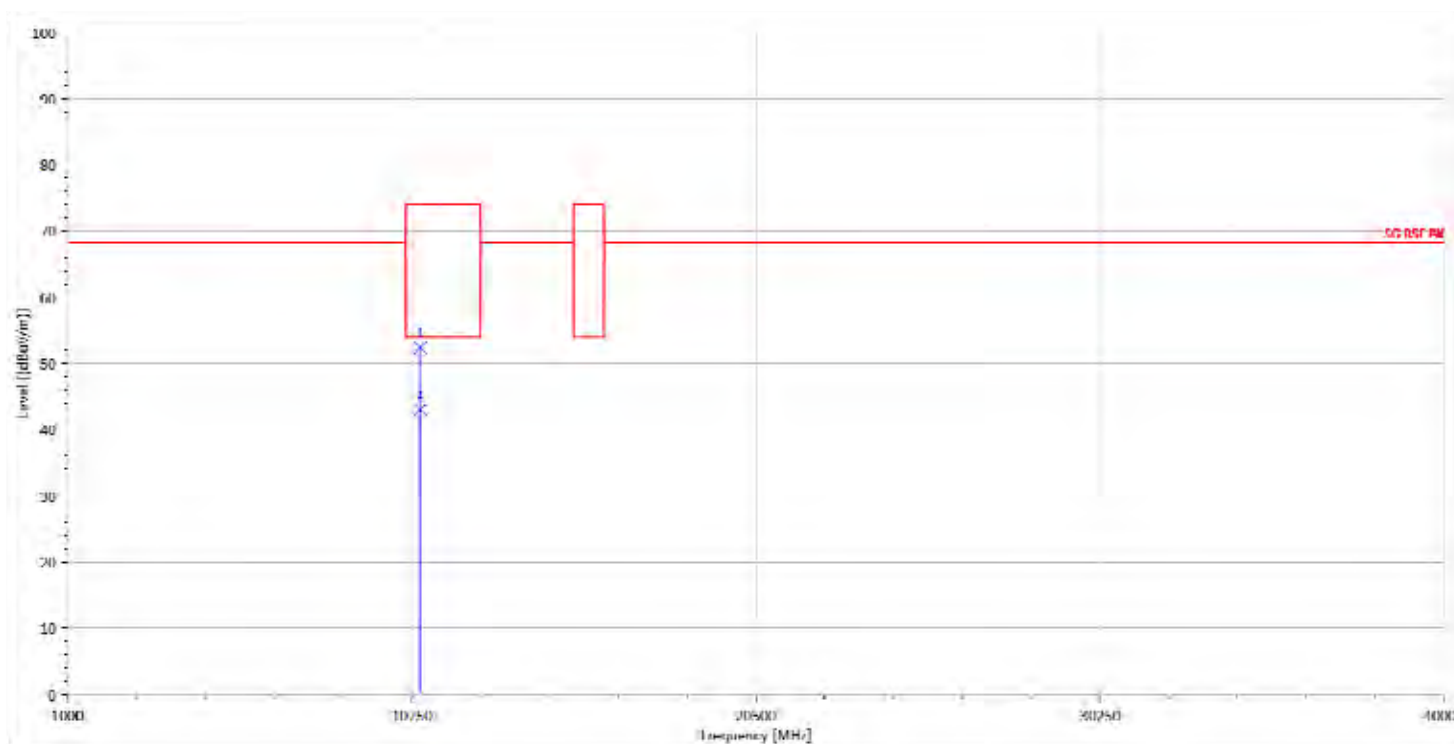
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	H	Peak	30.73	22.11	52.83	74	-21.17
11000.00	H	Average	20.93	22.11	43.04	54	-10.96

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Operation Mode :	802.11n20B3	Test Date :	2017/12/14
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



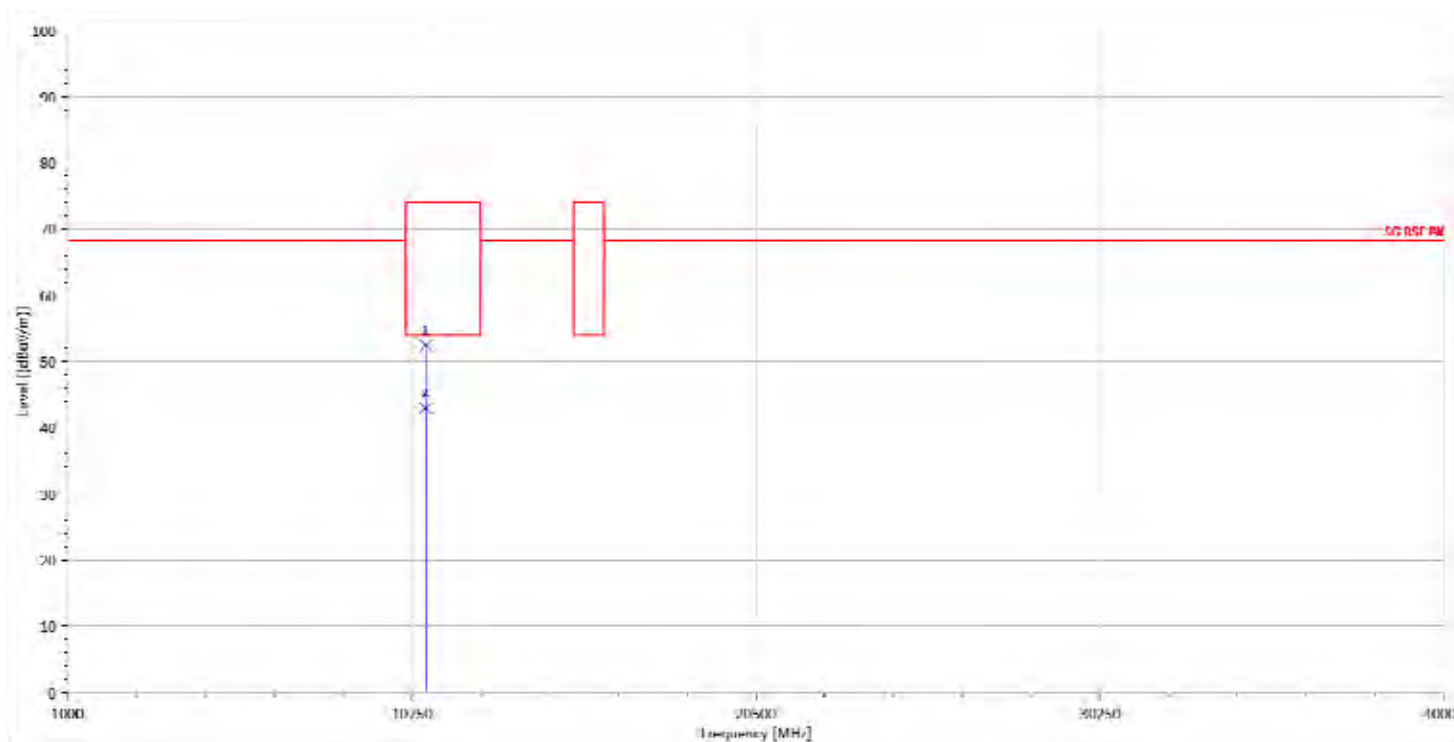
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	H	Peak	30.32	22.11	52.43	74	-21.57
11000.00	H	Average	20.96	22.11	43.07	54	-10.93

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Operation Mode :	802.11n20B3	Test Date :	2017/12/14
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



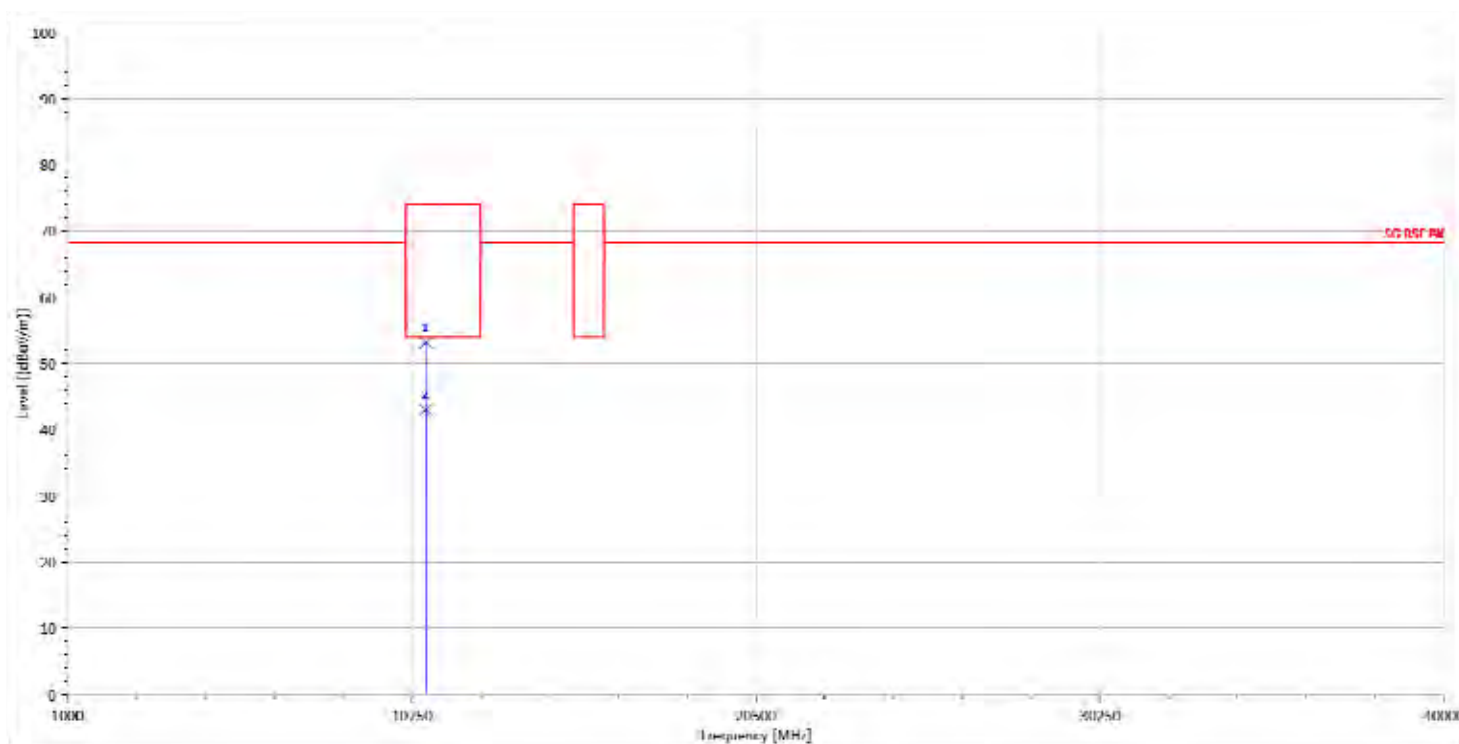
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	H	Peak	30.41	22.04	52.44	74	-21.56
11160.00	H	Average	20.99	22.04	43.03	54	-10.97

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Operation Mode :	802.11n20B3	Test Date :	2017/12/14
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



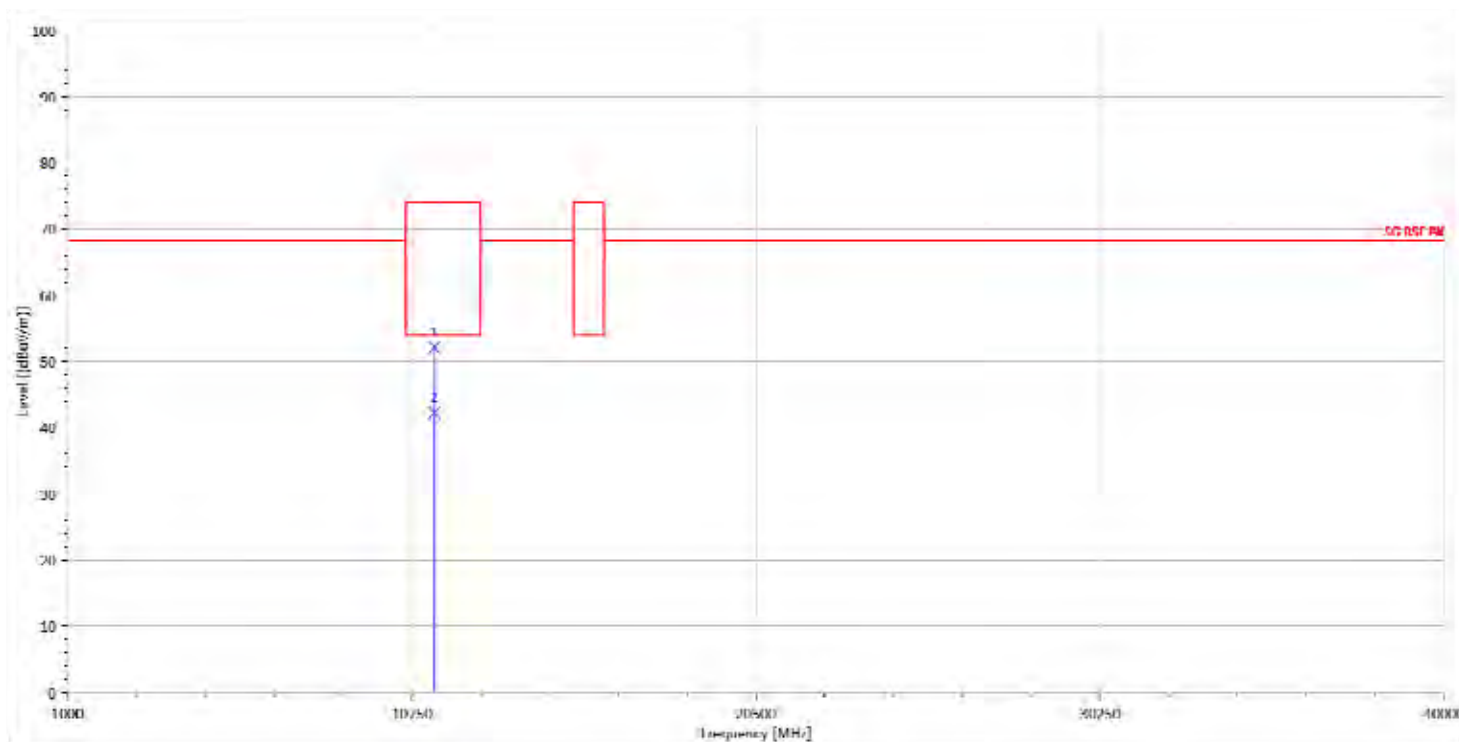
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	H	Peak	31.11	22.04	53.15	74	-20.85
11160.00	H	Average	21.03	22.04	43.07	54	-10.93

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Operation Mode :	802.11n20B3	Test Date :	2017/12/14
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



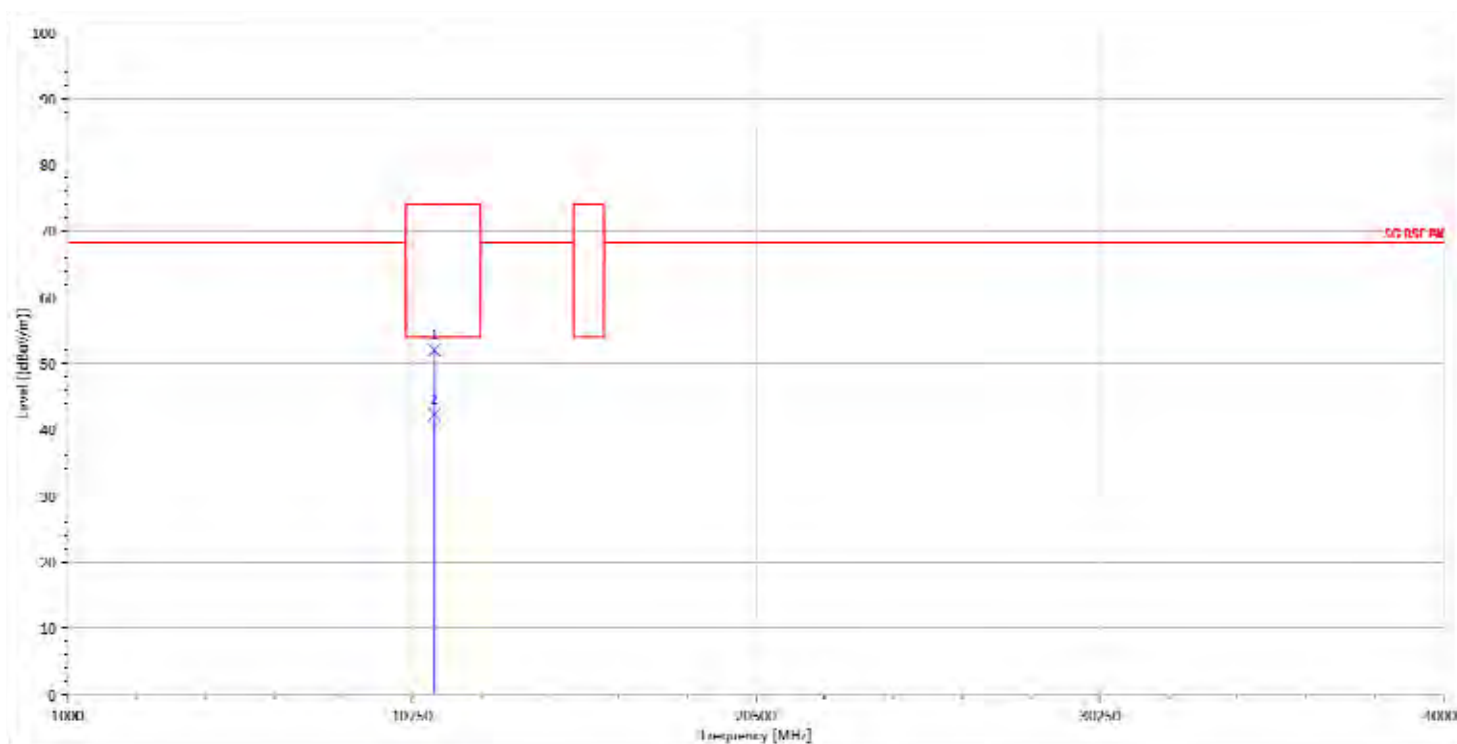
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	H	Peak	30.94	21.22	52.16	74	-21.84
11400.00	H	Average	21.05	21.22	42.27	54	-11.73

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Operation Mode :	802.11n20B3	Test Date :	2017/12/14
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



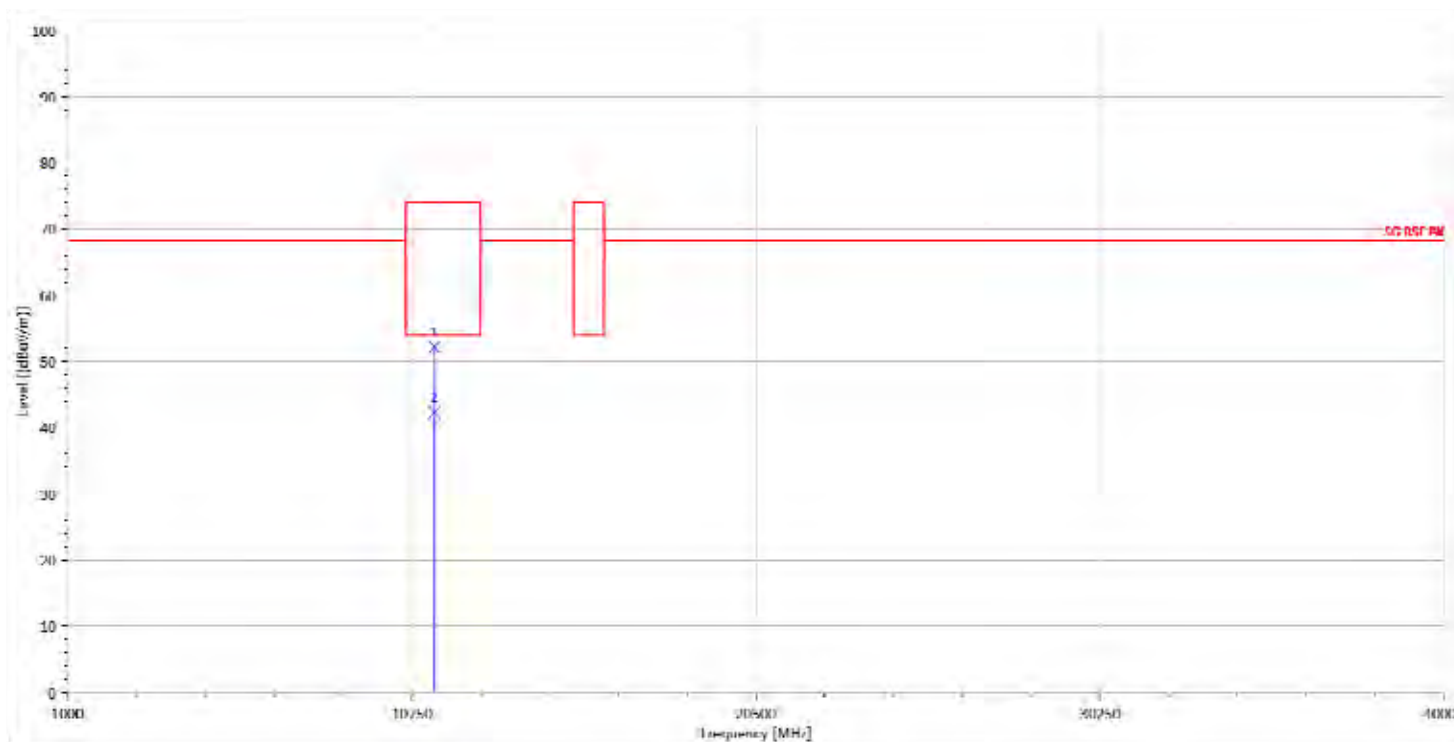
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	H	Peak	30.82	21.22	52.03	74	-21.97
11400.00	H	Average	21.08	21.22	42.30	54	-11.70

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Operation Mode : 802.11n20B3 Test Date : 2017/12/14
Fundamental Frequency : 5720 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Vertical



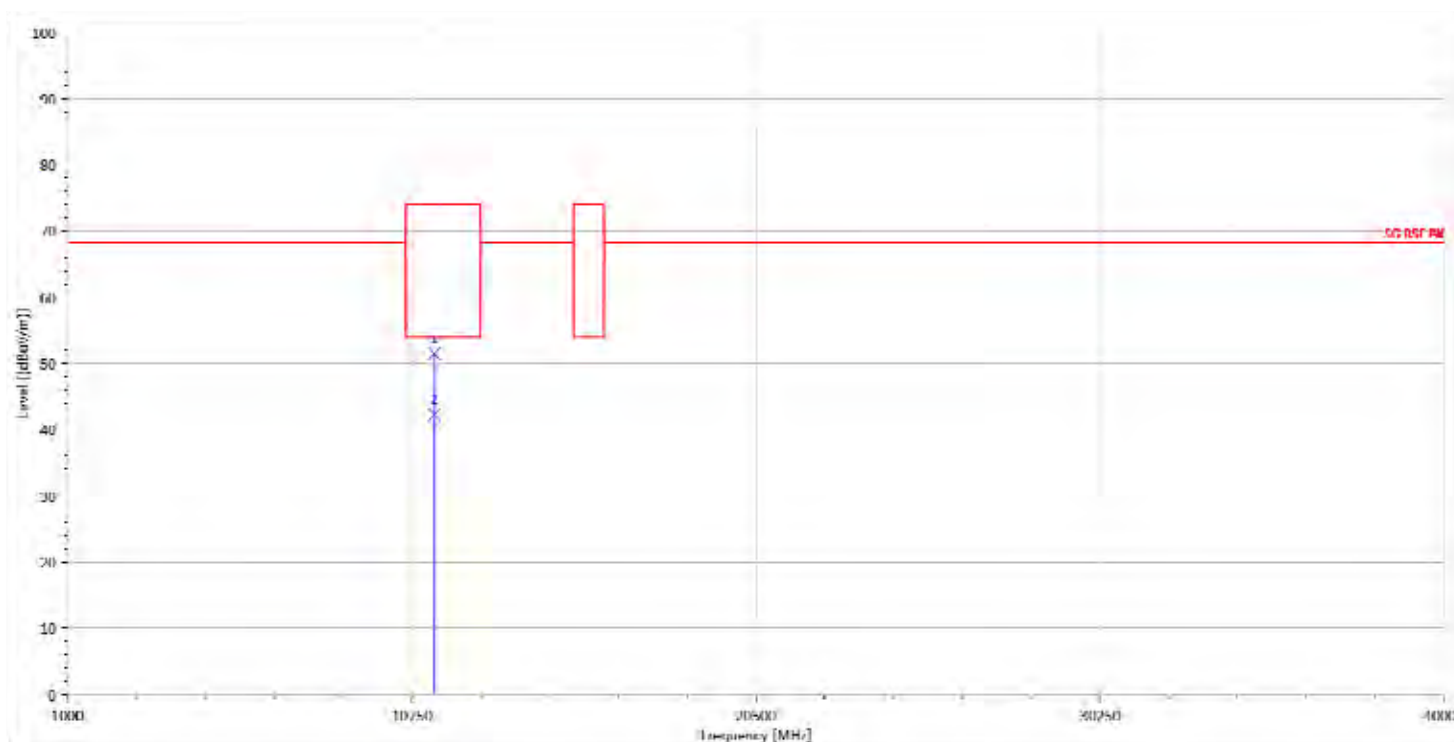
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11440.00	H	Peak	30.77	21.39	52.16	74	-21.84
11440.00	H	Average	21.09	21.39	42.48	54	-11.52

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Operation Mode :	802.11n20B3	Test Date :	2017/12/14
Fundamental Frequency :	5720 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11440.00	H	Peak	31.65	21.39	53.04	74	-20.96
11440.00	H	Average	21.07	21.39	42.46	54	-11.54

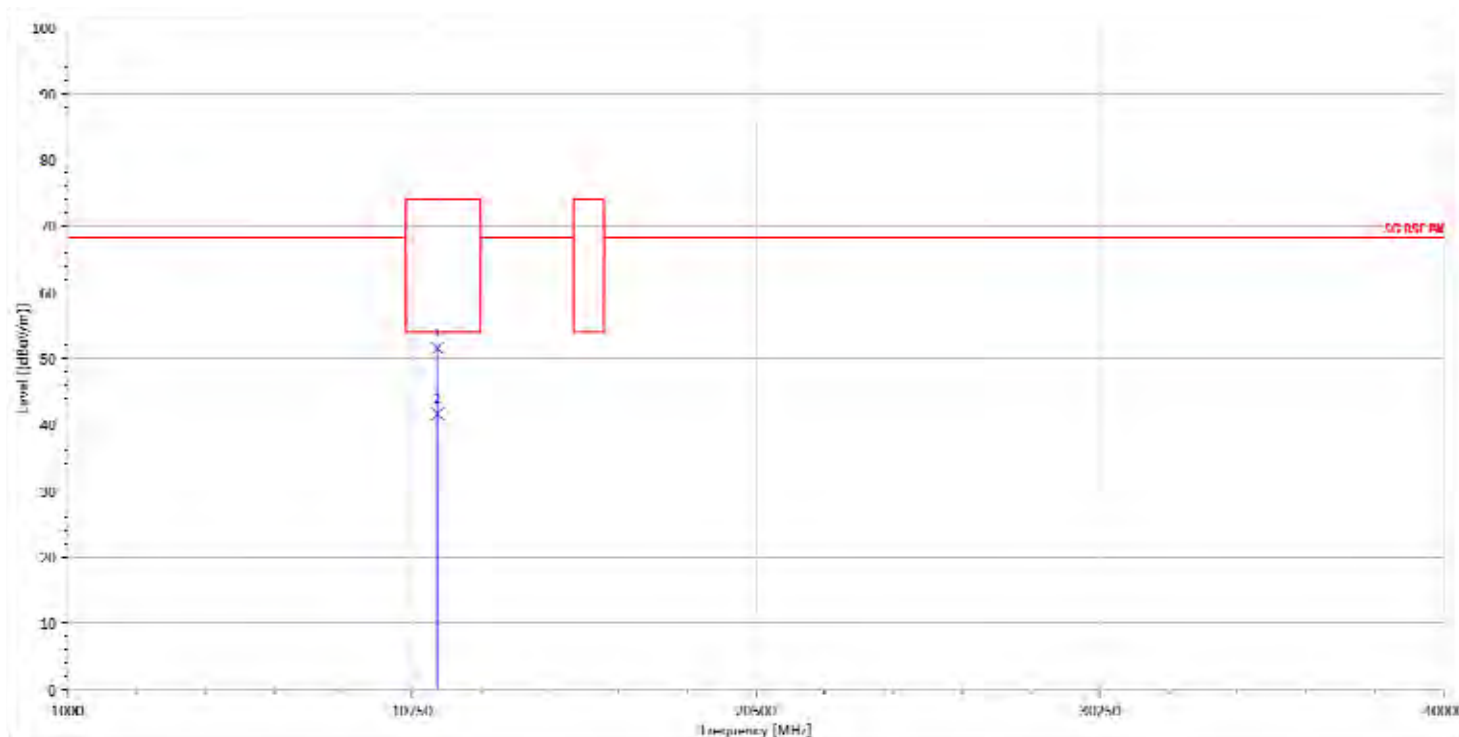
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

Operation Mode :	802.11n20B4	Test Date :	2017/12/14
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



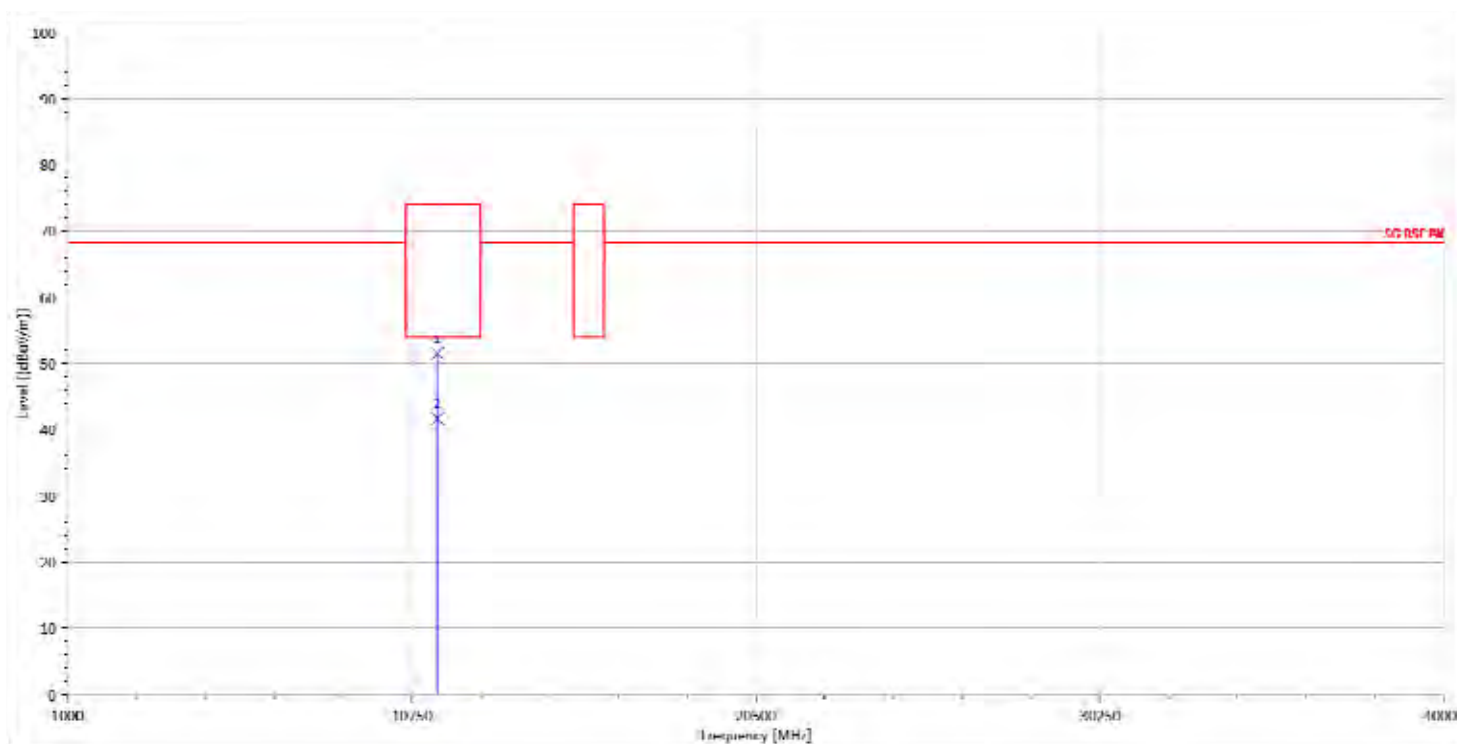
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	H	Peak	30.87	20.70	51.57	74	-22.43
11490.00	H	Average	20.95	20.70	41.65	54	-12.35

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Operation Mode :	802.11n20B4	Test Date :	2017/12/14
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



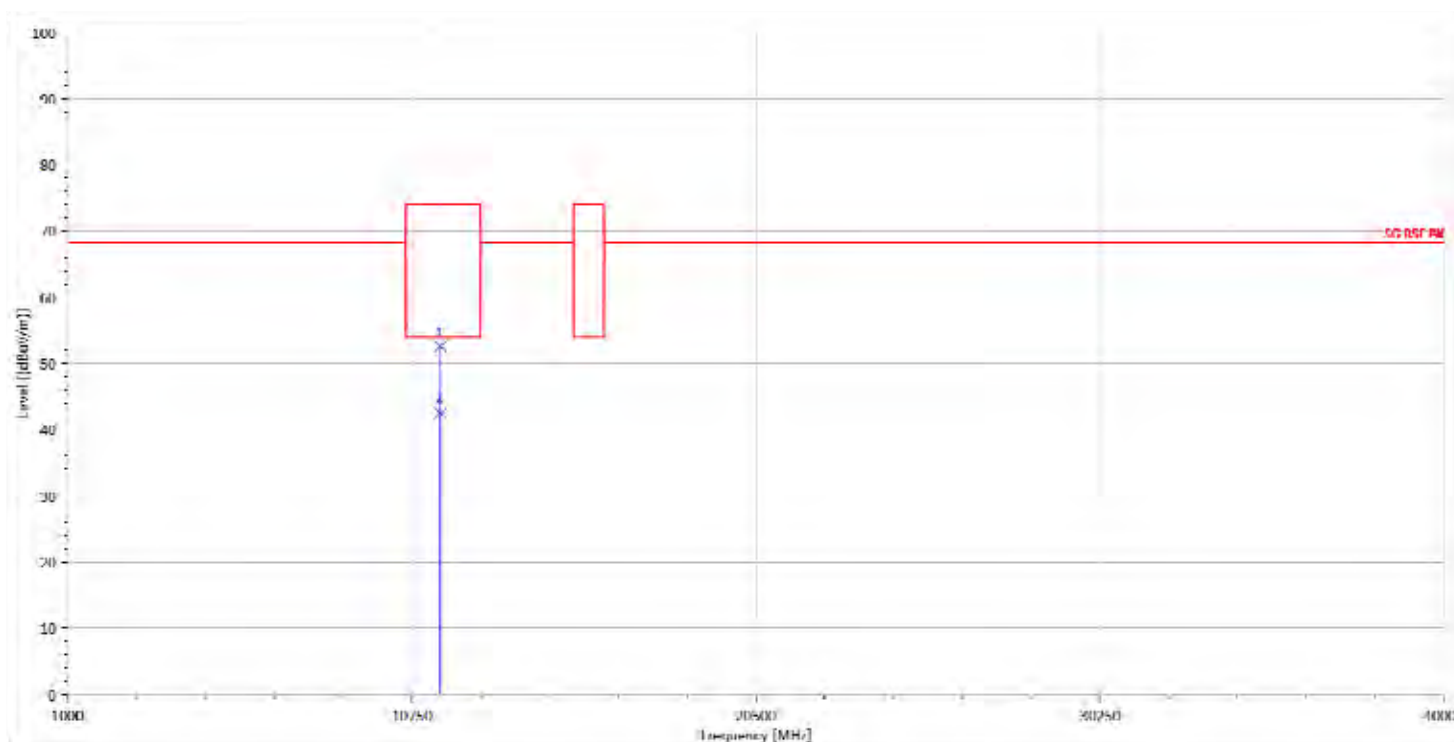
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	H	Peak	30.82	20.70	51.53	74	-22.47
11490.00	H	Average	20.99	20.70	41.69	54	-12.31

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Operation Mode :	802.11n20B4	Test Date :	2017/12/14
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



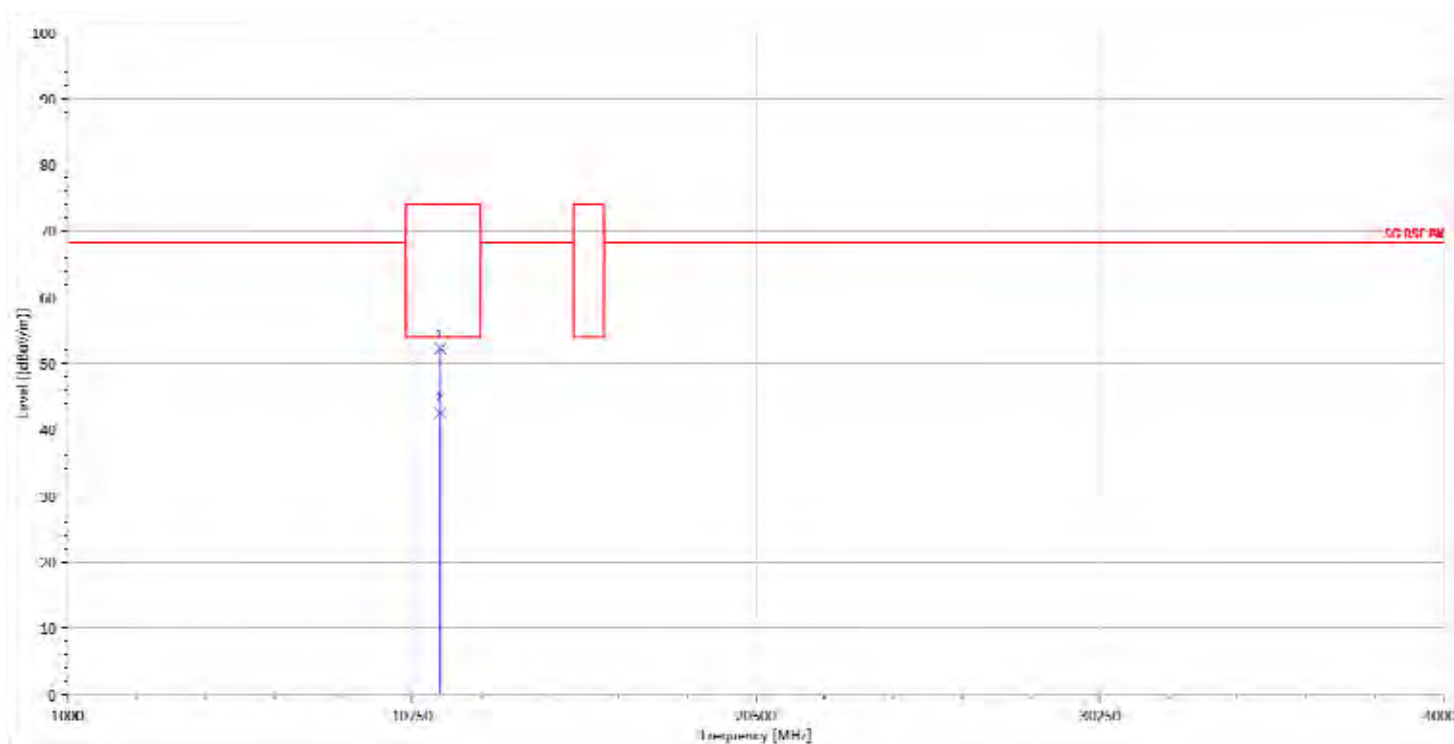
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	H	Peak	31.15	21.44	52.59	74	-21.41
11570.00	H	Average	21.03	21.44	42.47	54	-11.53

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Operation Mode :	802.11n20B4	Test Date :	2017/12/14
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



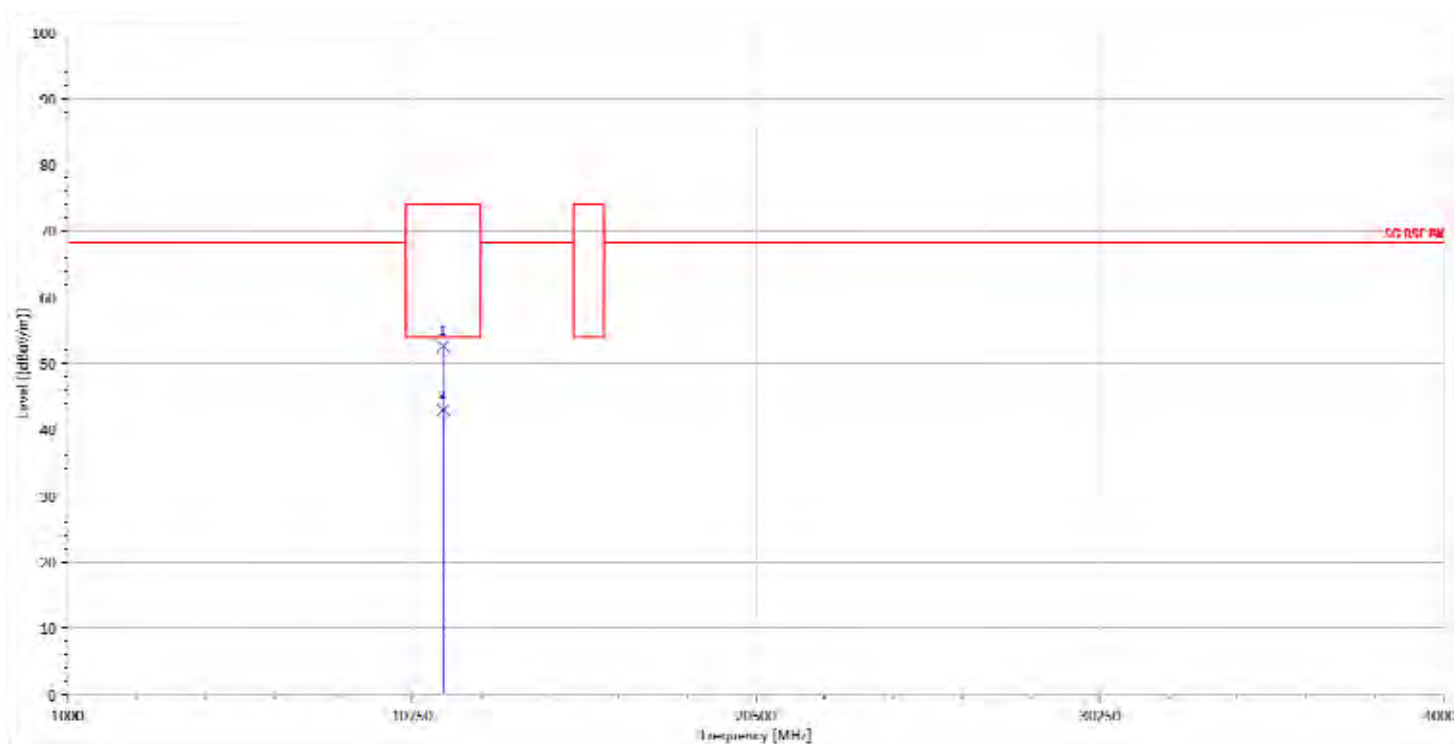
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	H	Peak	30.85	21.44	52.29	74	-21.71
11570.00	H	Average	21.06	21.44	42.50	54	-11.50

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Operation Mode :	802.11n20B4	Test Date :	2017/12/14
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



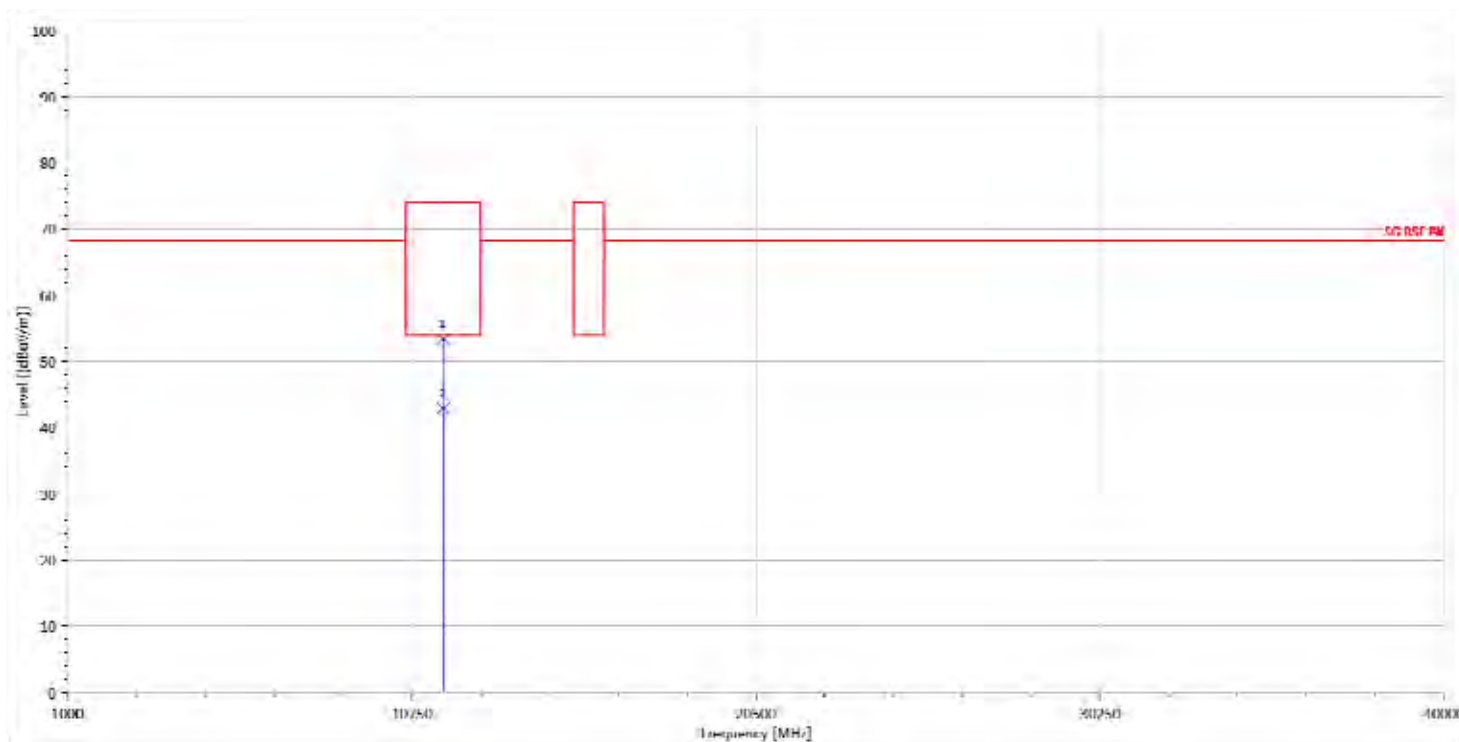
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	H	Peak	30.61	22.02	52.63	74	-21.37
11650.00	H	Average	20.98	22.02	43.00	54	-11.00

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Operation Mode :	802.11n20B4	Test Date :	2017/12/14
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	H	Peak	31.42	22.02	53.44	74	-20.56
11650.00	H	Average	20.92	22.02	42.94	54	-11.06

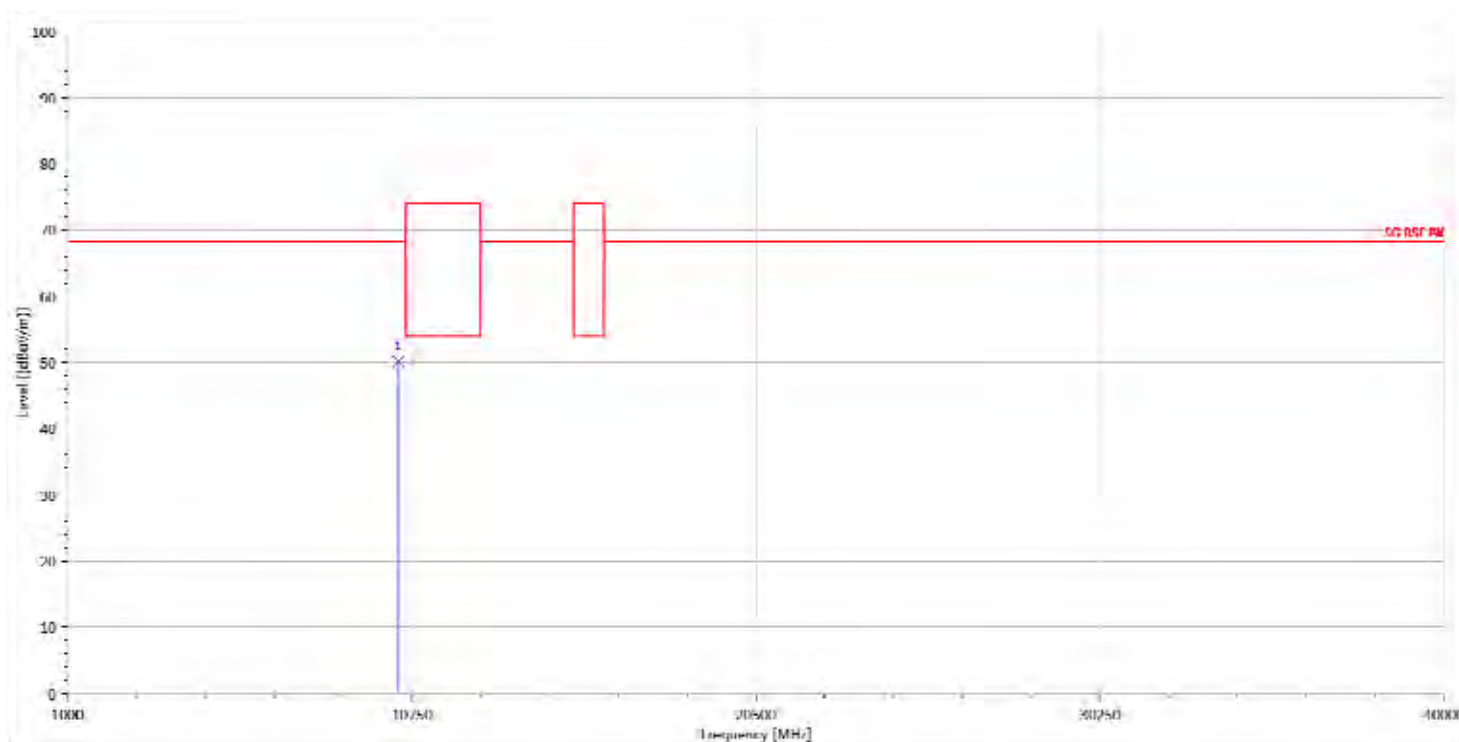
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Mode :	802.11n40B1	Test Date :	2017/12/15
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



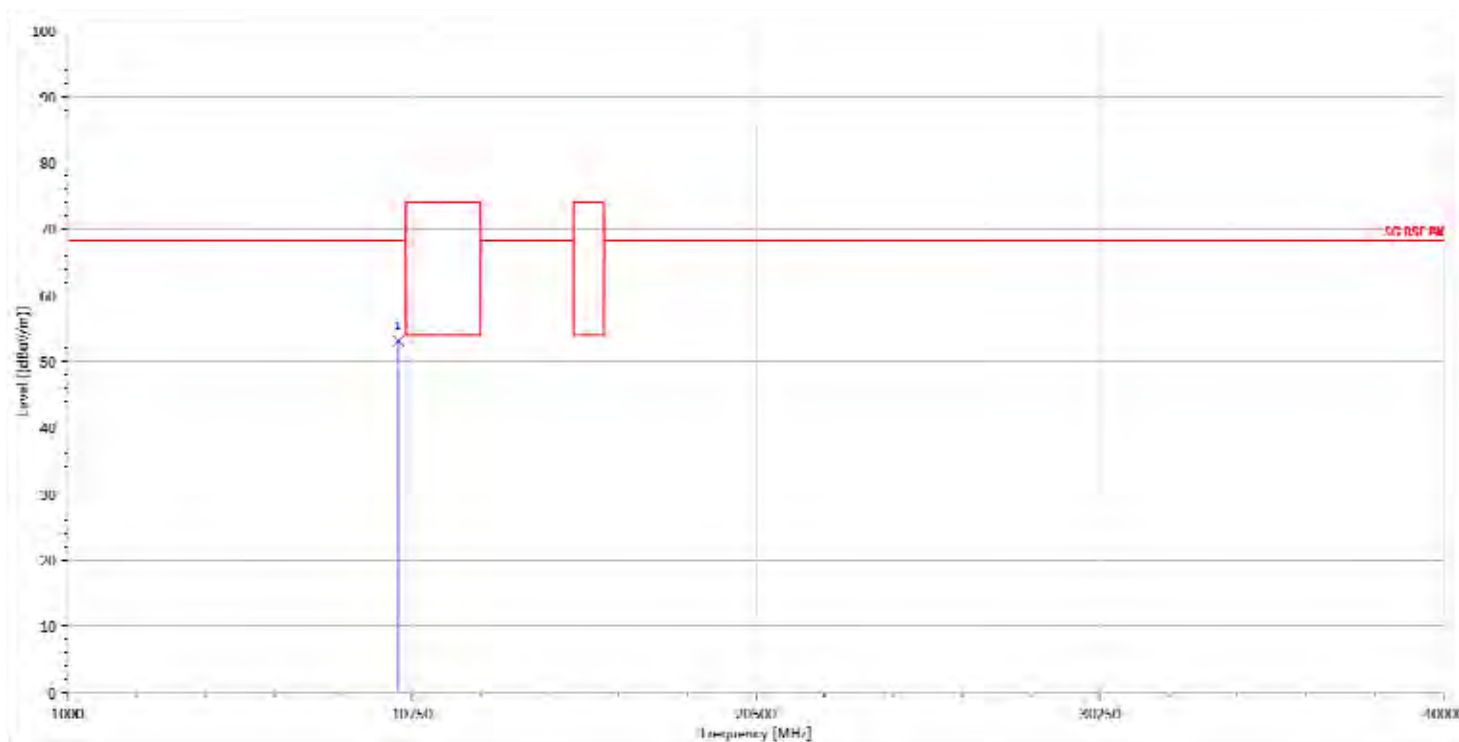
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10380.00	H	Peak	29.20	20.95	50.16	68.3	-18.14

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Operation Mode :	802.11n40B1	Test Date :	2017/12/15
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



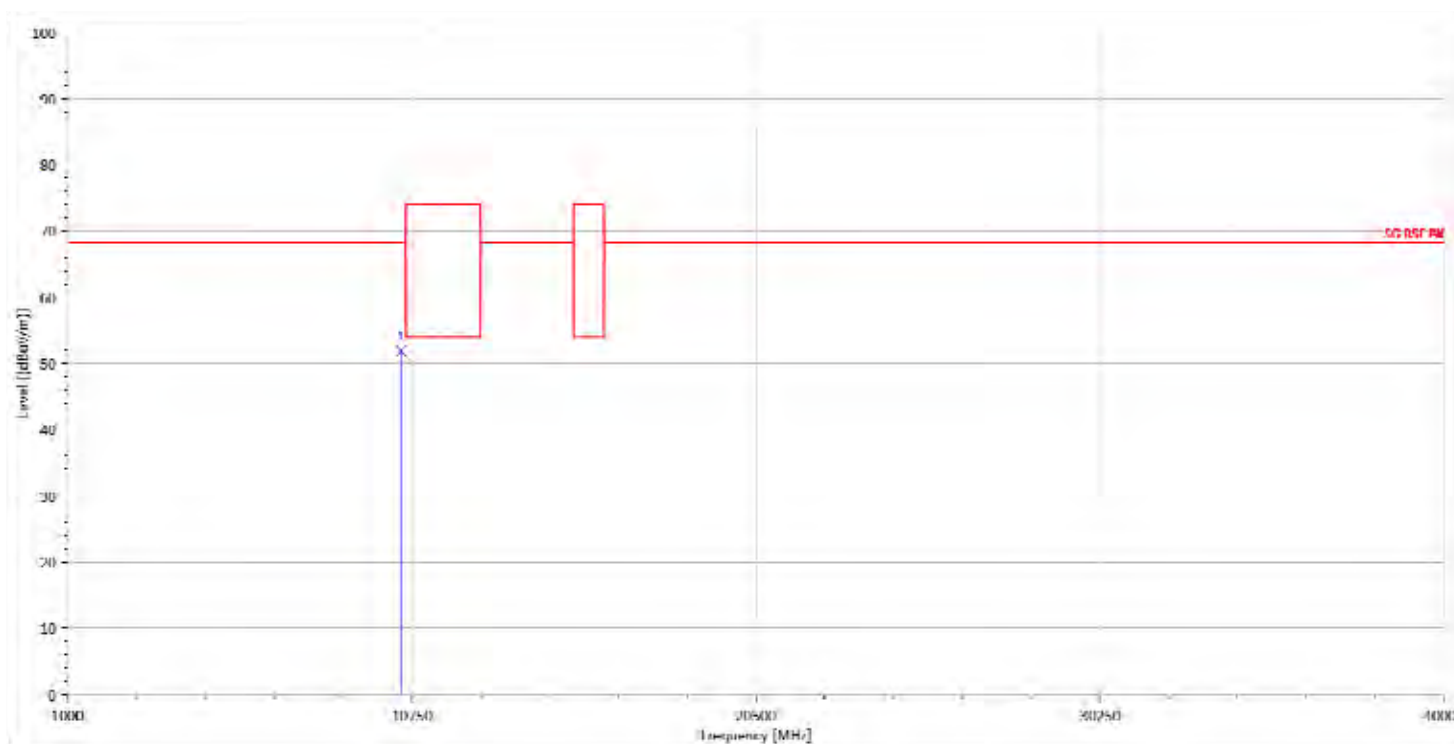
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
10380.00	H	Peak	32.18	20.95	53.13	68.3	-15.17

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Operation Mode : 802.11n40B1 Test Date : 2017/12/15
Fundamental Frequency : 5230 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



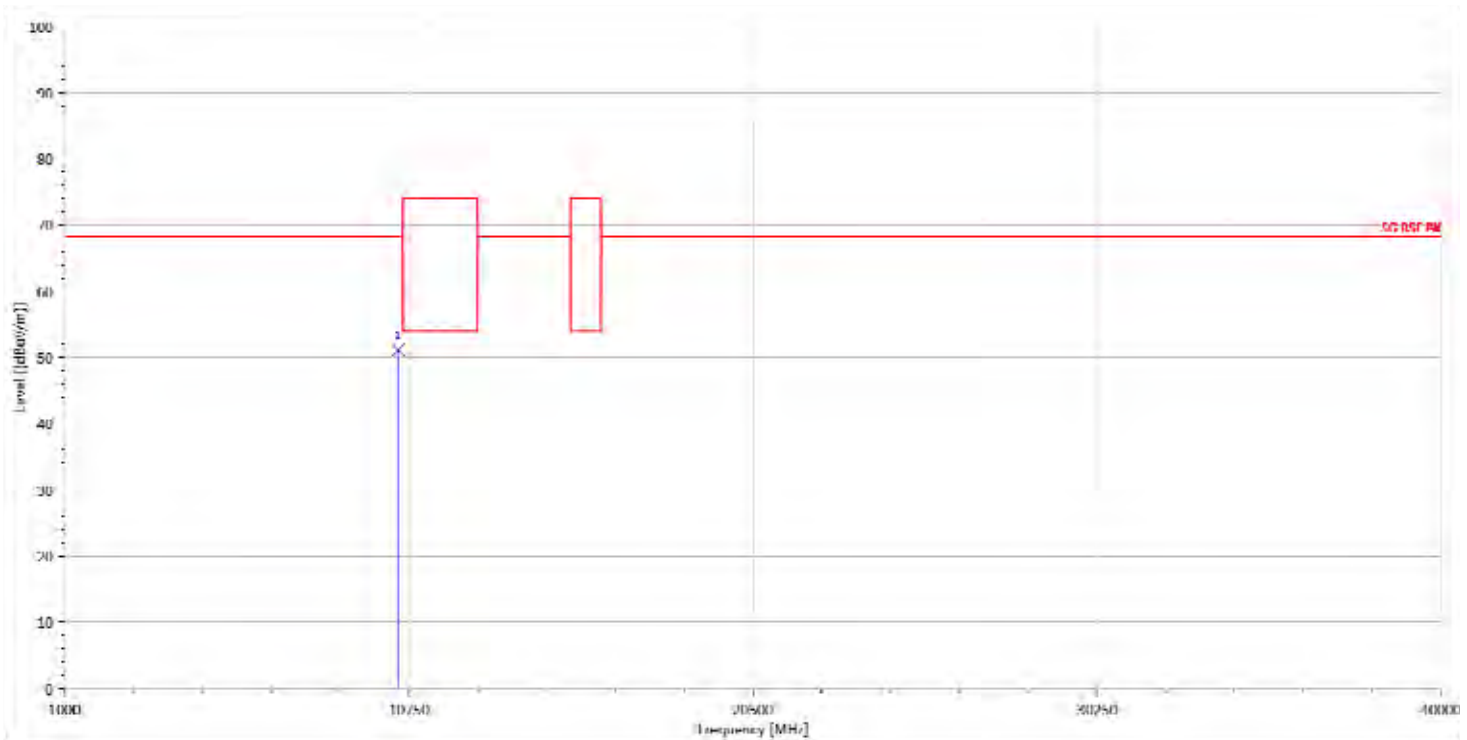
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10460.00	H	Peak	30.95	20.95	51.90	68.3	-16.40

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Operation Mode : 802.11n40B1 Test Date : 2017/12/15
Fundamental Frequency : 5230 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10460.00	H	Peak	30.17	20.95	51.13	68.3	-17.17

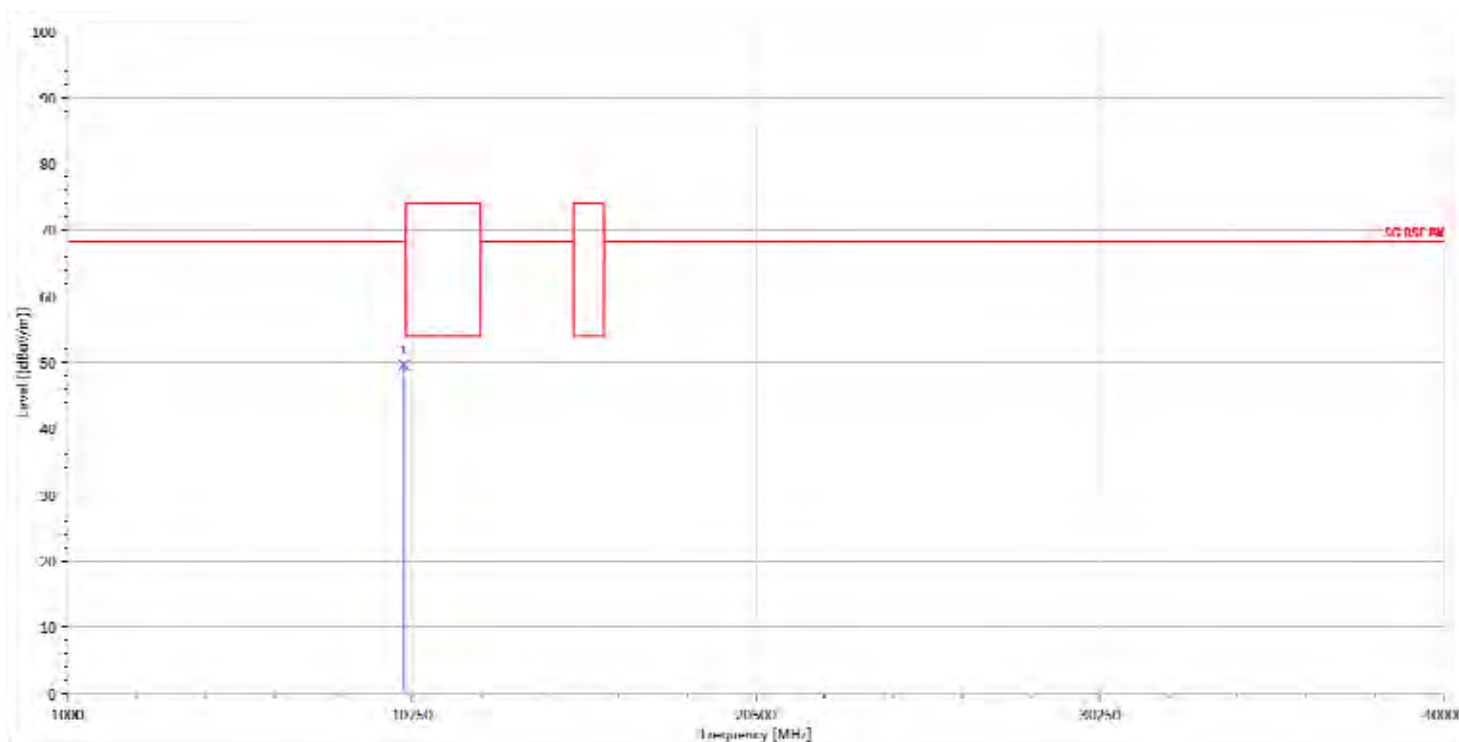
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

Operation Mode :	802.11n40B2	Test Date :	2017/12/15
Fundamental Frequency :	5270 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



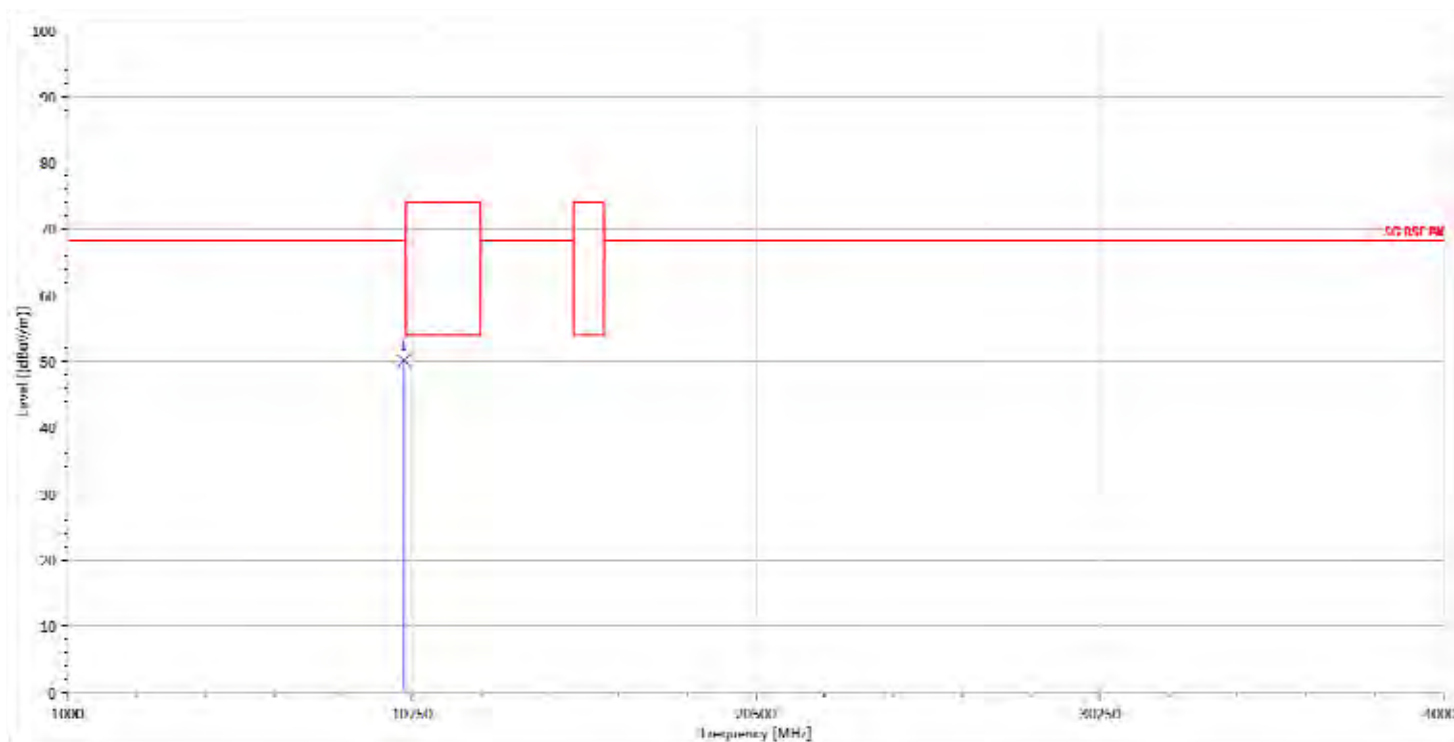
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10540.00	H	Peak	29.61	20.06	49.67	68.3	-18.63

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Operation Mode : 802.11n40B2 Test Date : 2017/12/15
Fundamental Frequency : 5270 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



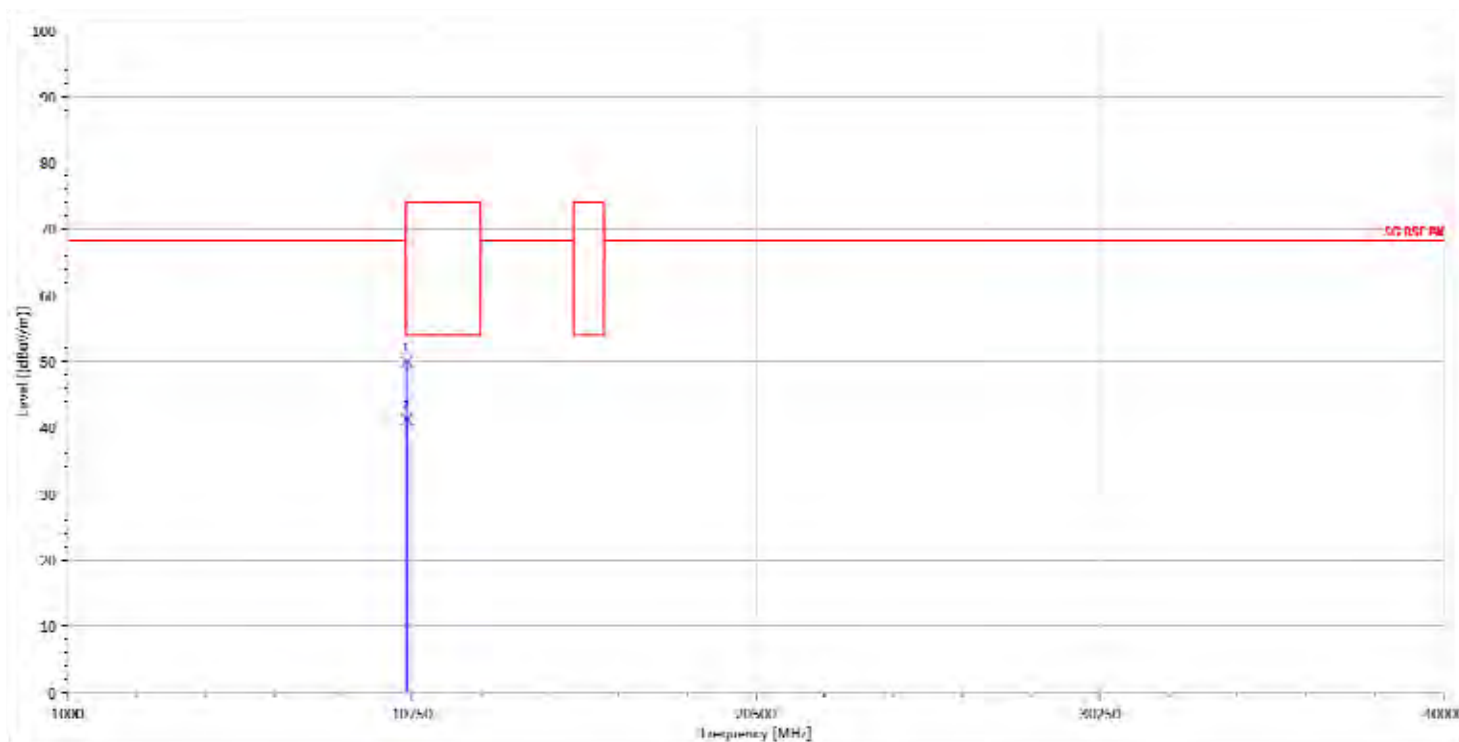
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10540.00	H	Peak	30.09	20.06	50.15	68.3	-18.15

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Operation Mode :	802.11n40B2	Test Date :	2017/12/15
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



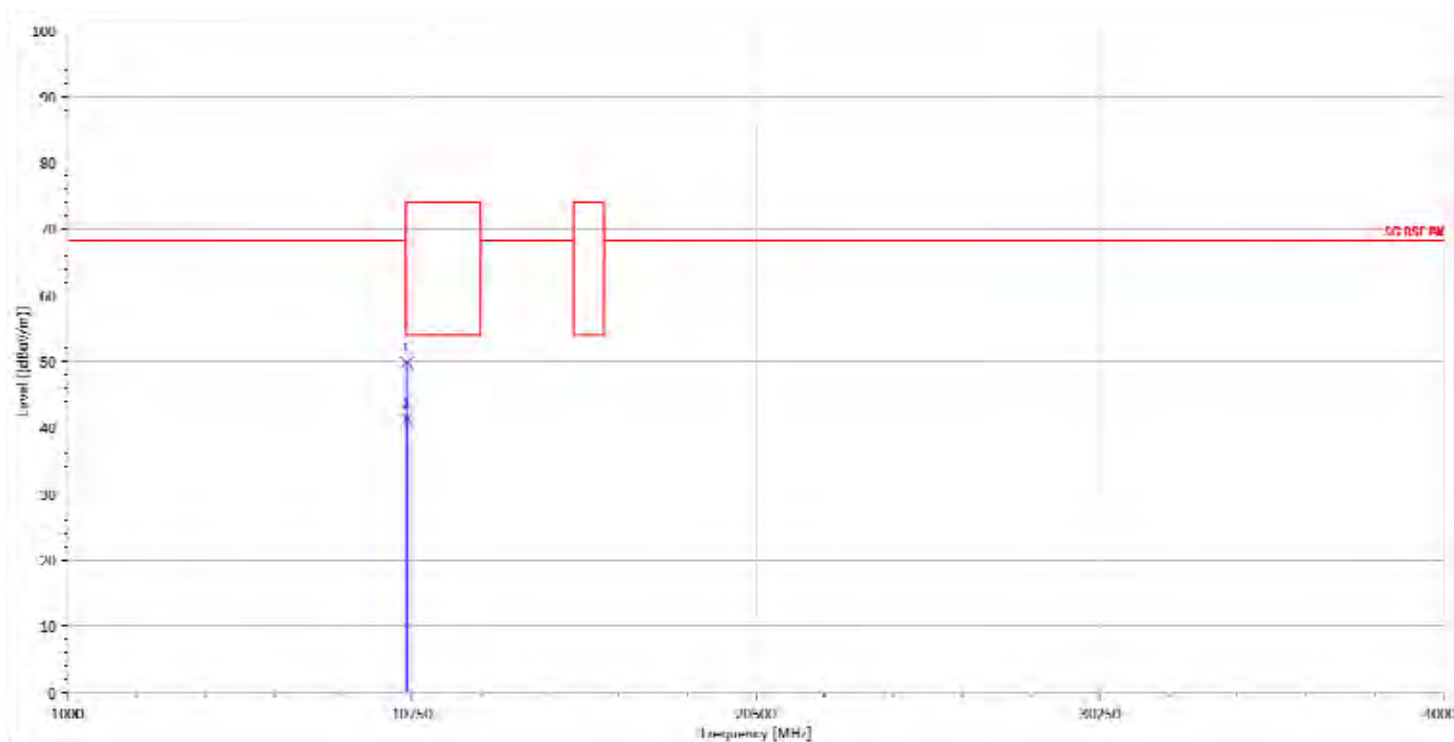
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10620.00	H	Peak	29.64	20.29	49.93	74	-24.07
10620.00	H	Average	20.98	20.29	41.27	54	-12.73

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Operation Mode :	802.11n40B2	Test Date :	2017/12/15
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10620.00	S	Peak	29.56	20.29	49.85	74	-24.15
10620.00	S	Average	20.99	20.29	41.28	54	-12.72

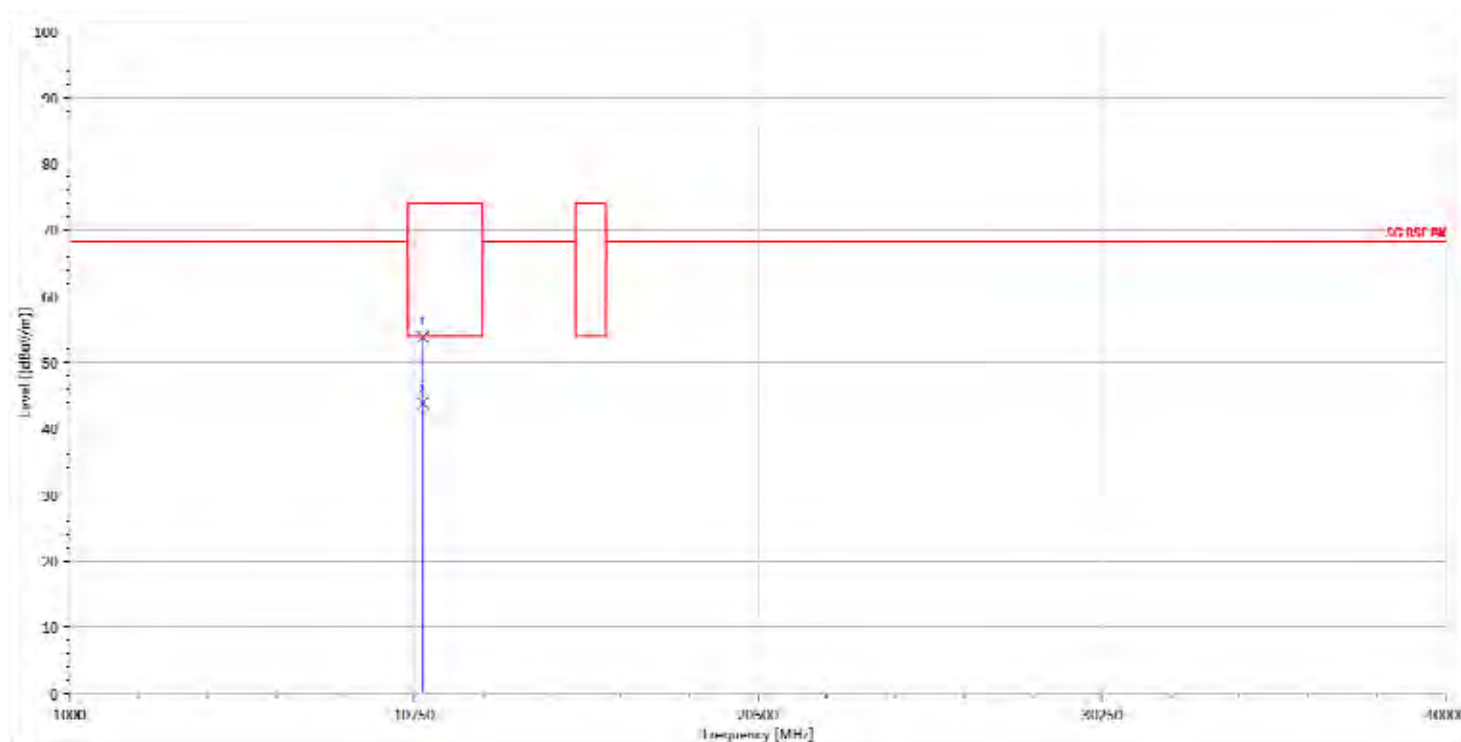
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Mode :	802.11n40B3	Test Date :	2017/12/15
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11020.00	H	Peak	30.96	22.90	53.86	74	-20.14
11020.00	H	Average	20.97	22.90	43.87	54	-10.13

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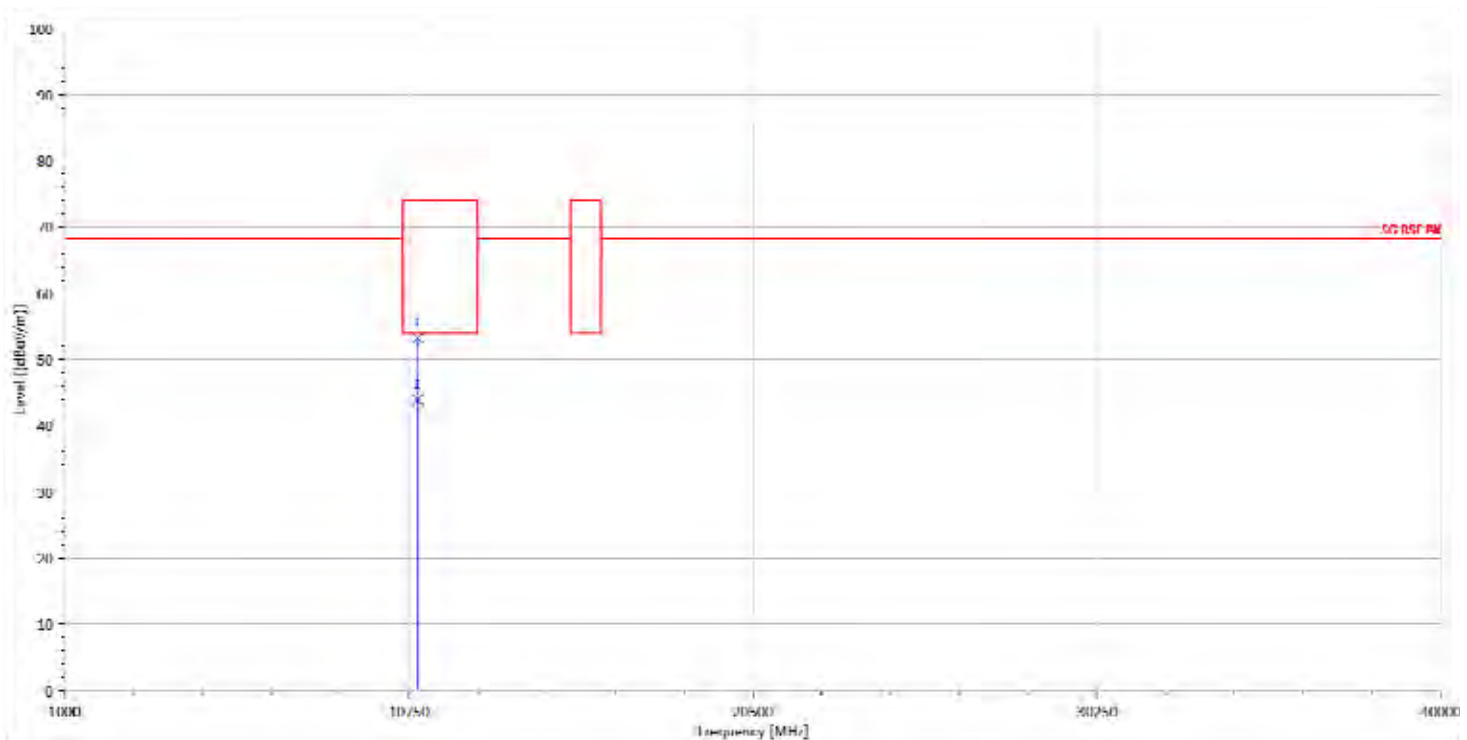
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Operation Mode : 802.11n40B3 Test Date : 2017/12/15
Fundamental Frequency : 5510 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



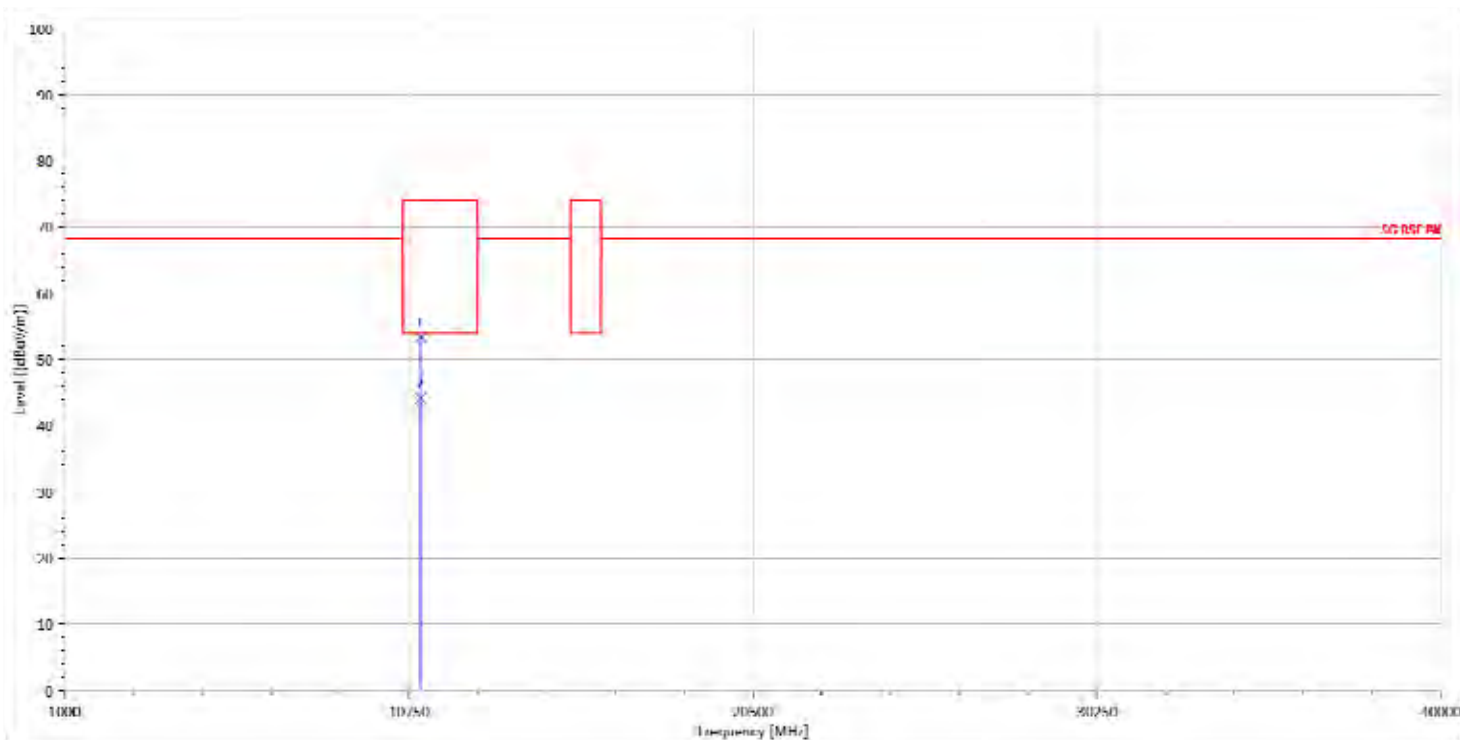
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11020.00	H	Peak	30.36	22.90	53.26	74	-20.74
11020.00	H	Average	20.99	22.90	43.89	54	-10.11

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Operation Mode : 802.11n40B3 Test Date : 2017/12/15
Fundamental Frequency : 5550 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



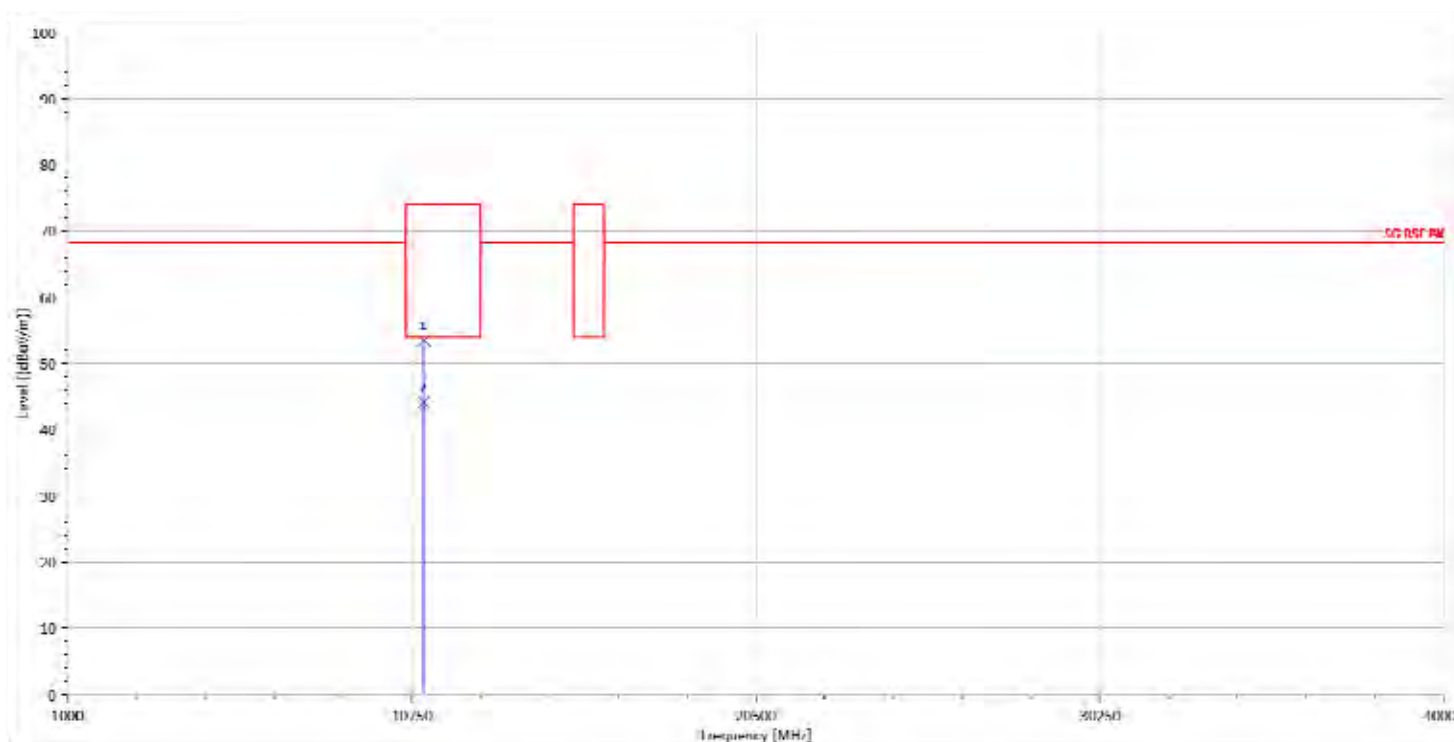
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11100.00	H	Peak	30.20	23.16	53.36	74	-20.64
11100.00	H	Average	20.96	23.16	44.12	54	-9.88

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Operation Mode :	802.11n40B3	Test Date :	2017/12/15
Fundamental Frequency :	5550 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



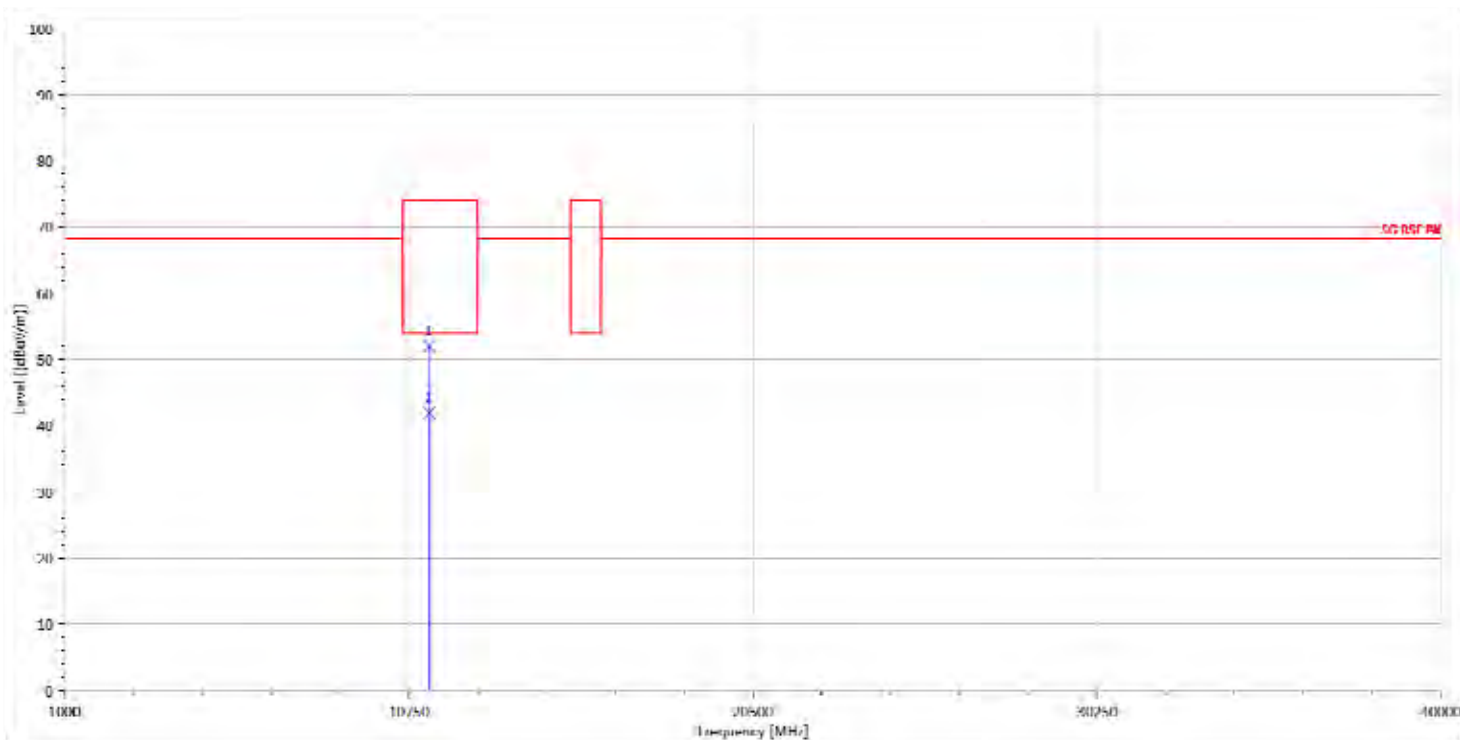
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11100.00	H	Peak	30.34	23.16	53.50	74	-20.50
11100.00	H	Average	20.95	23.16	44.11	54	-9.89

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Operation Mode : 802.11n40B3 Test Date : 2017/12/15
Fundamental Frequency : 5670 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



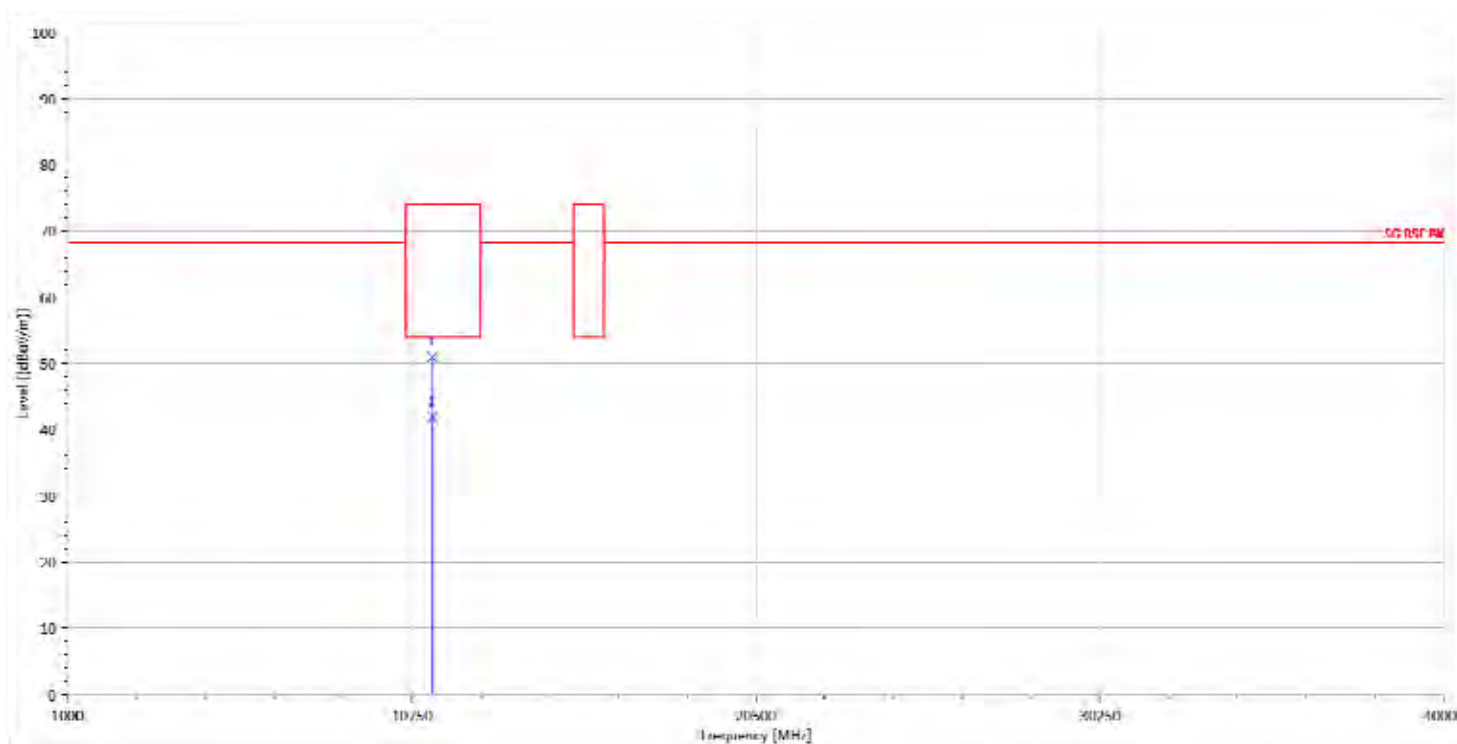
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11340.00	H	Peak	31.09	20.97	52.05	74	-21.95
11340.00	H	Average	20.96	20.97	41.93	54	-12.07

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Operation Mode :	802.11n40B3	Test Date :	2017/12/15
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



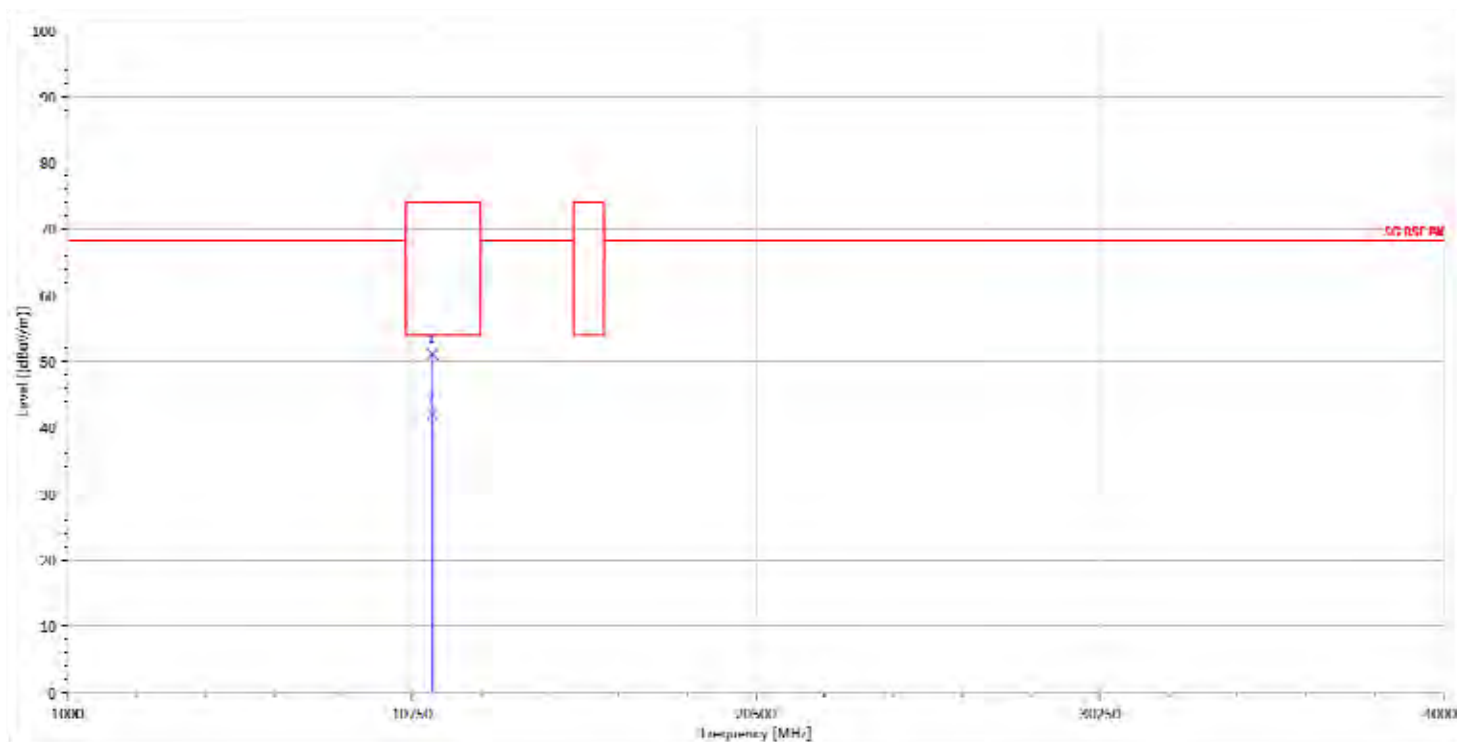
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11340.00	H	Peak	30.03	20.97	50.99	74	-23.01
11340.00	H	Average	20.92	20.97	41.89	54	-12.11

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Operation Mode :	802.11n40B3	Test Date :	2017/12/14
Fundamental Frequency :	5710 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



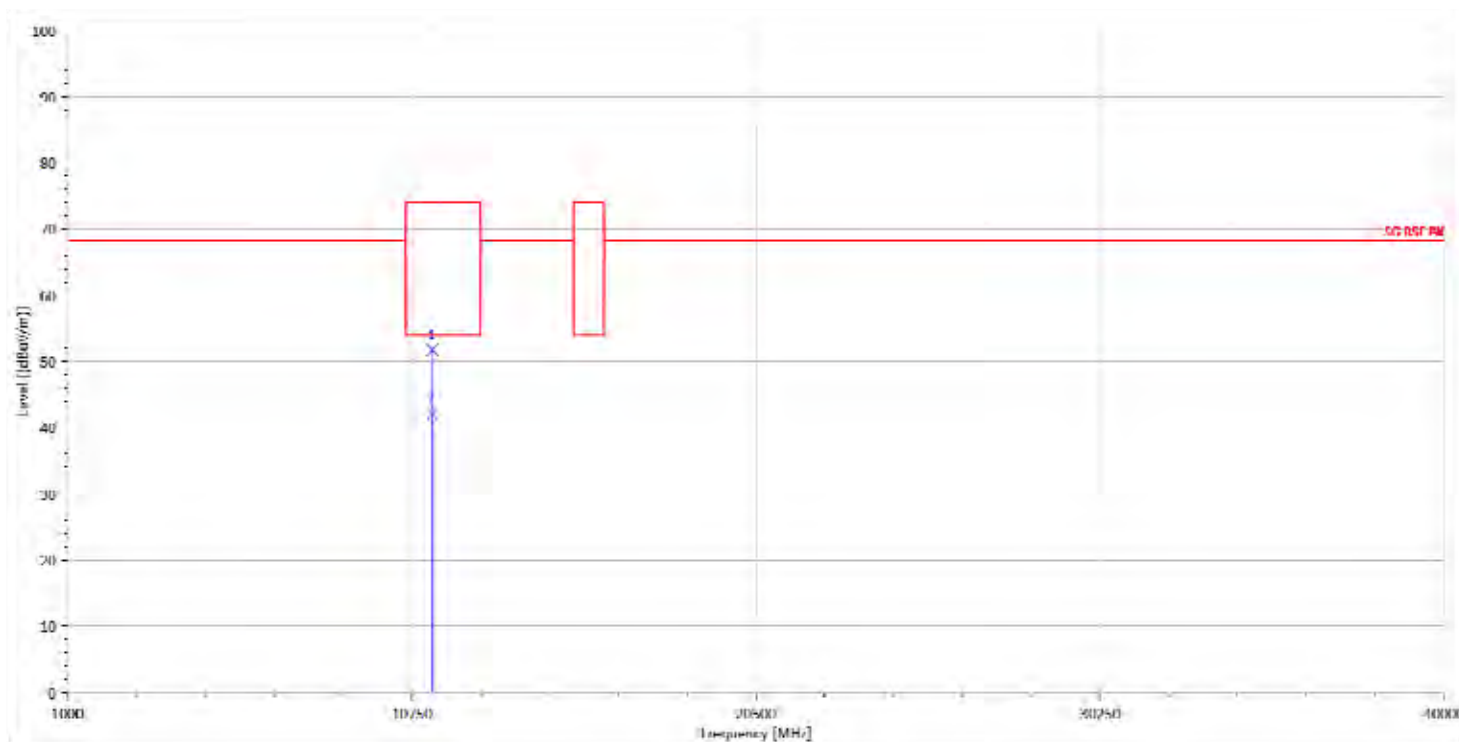
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11420.00	H	Peak	29.91	21.09	51.00	74	-23.00
11420.00	H	Average	21.06	21.09	42.15	54	-11.85

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Operation Mode :	802.11n40B3	Test Date :	2017/12/14
Fundamental Frequency :	5710 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11420.00	H	Peak	29.89	21.09	50.98	74	-23.02
11420.00	H	Average	21.03	21.09	42.12	54	-11.88

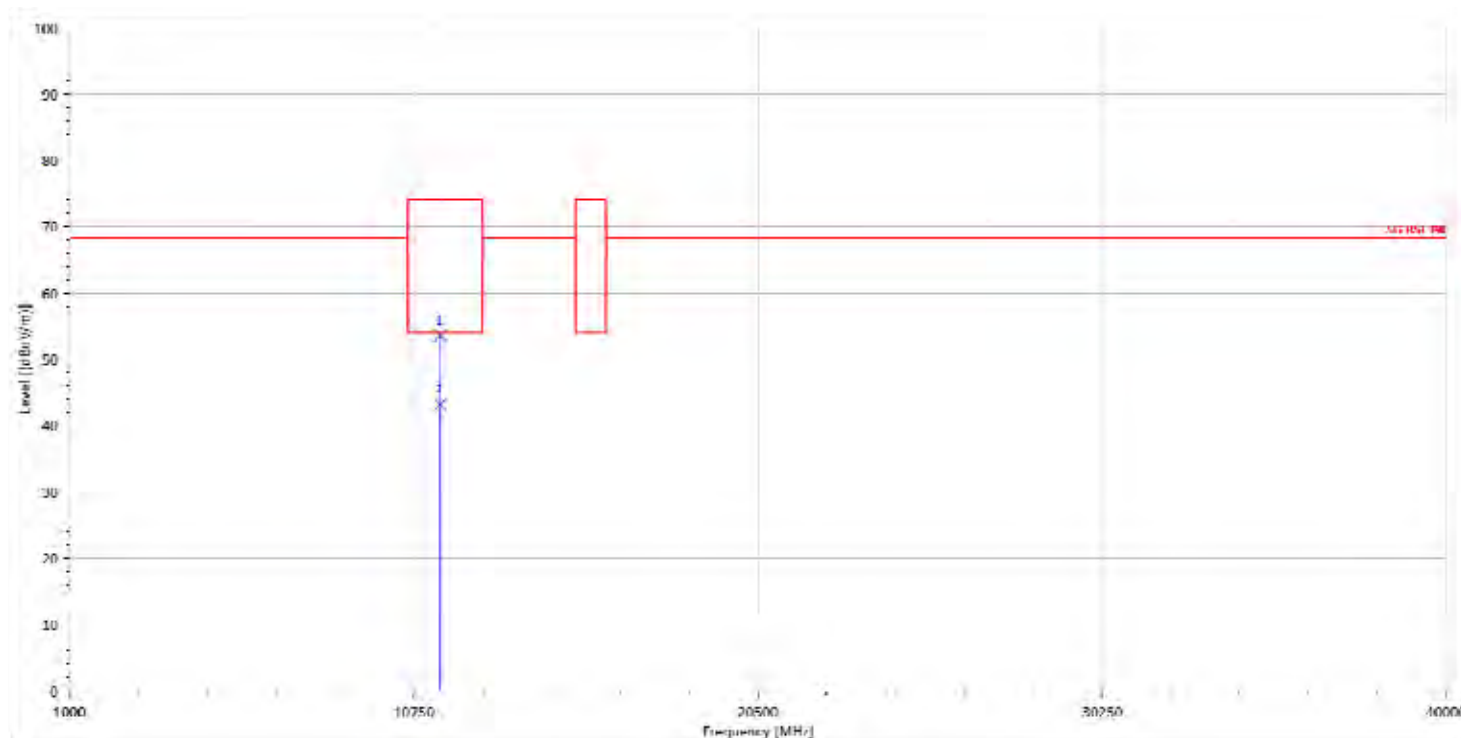
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

Operation Mode :	802.11n40B4	Test Date :	2017/12/15
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



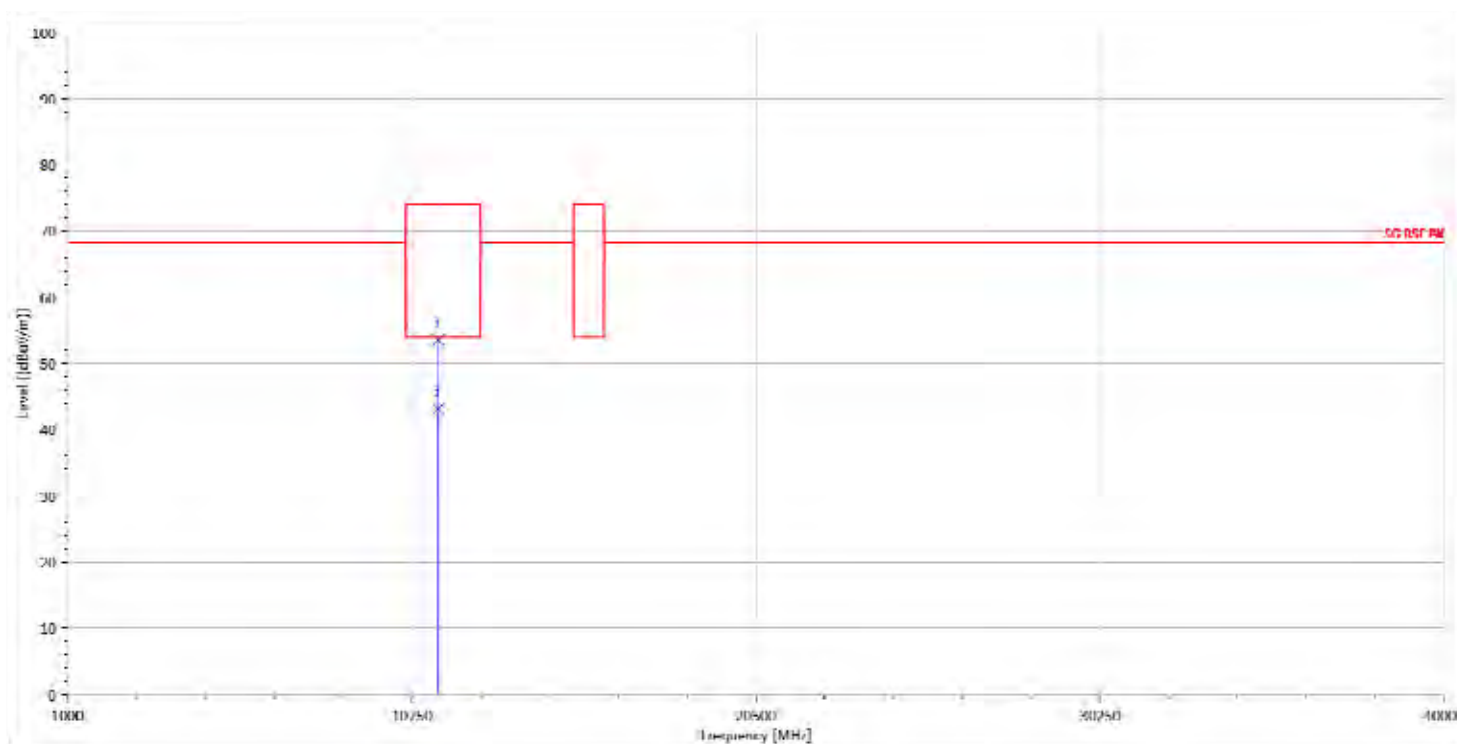
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11510.00	H	Peak	31.45	22.17	53.61	74	-20.39
11510.00	H	Average	20.99	22.17	43.16	54	-10.84

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Operation Mode :	802.11n40B4	Test Date :	2017/12/15
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



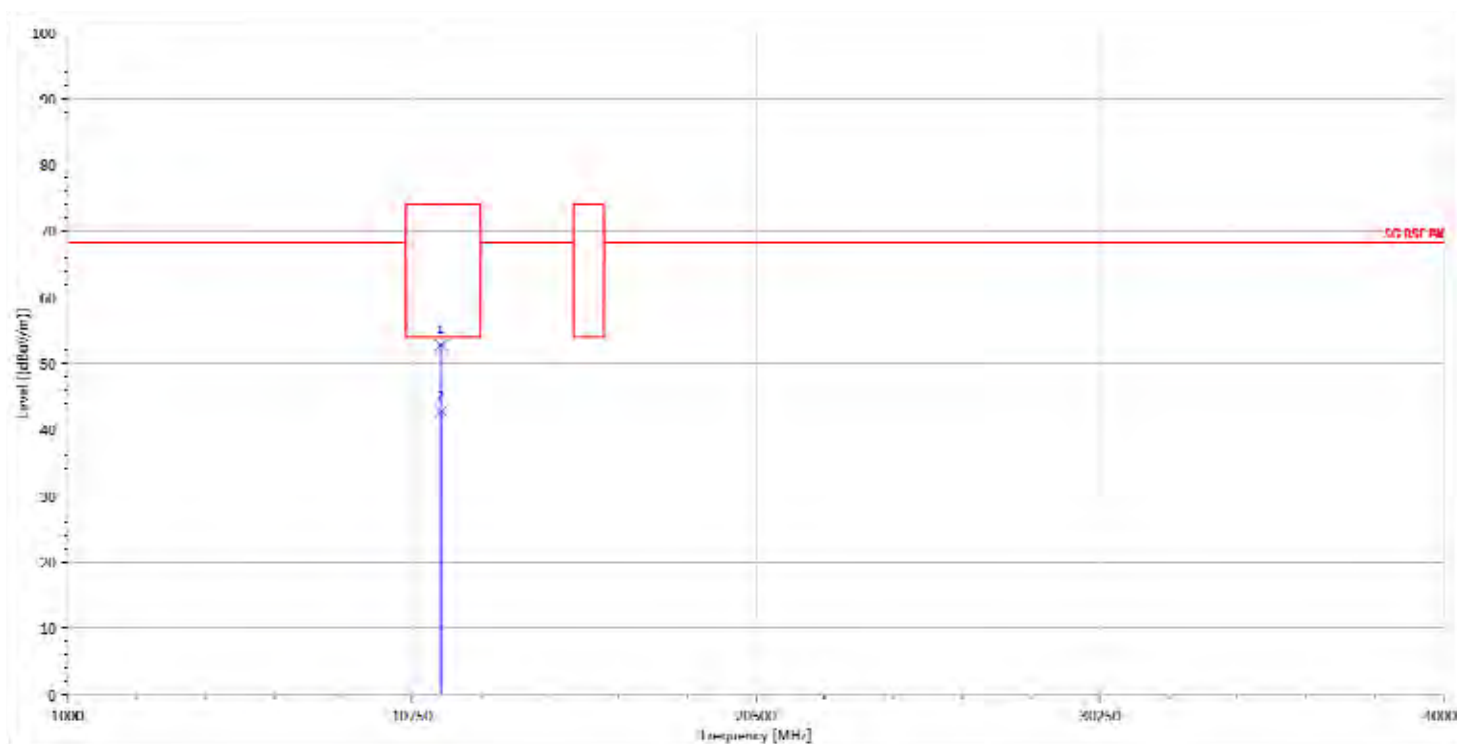
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11510.00	H	Peak	31.43	22.17	53.59	74	-20.41
11510.00	H	Average	21.00	22.17	43.17	54	-10.83

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Operation Mode :	802.11n40B4	Test Date :	2017/12/15
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



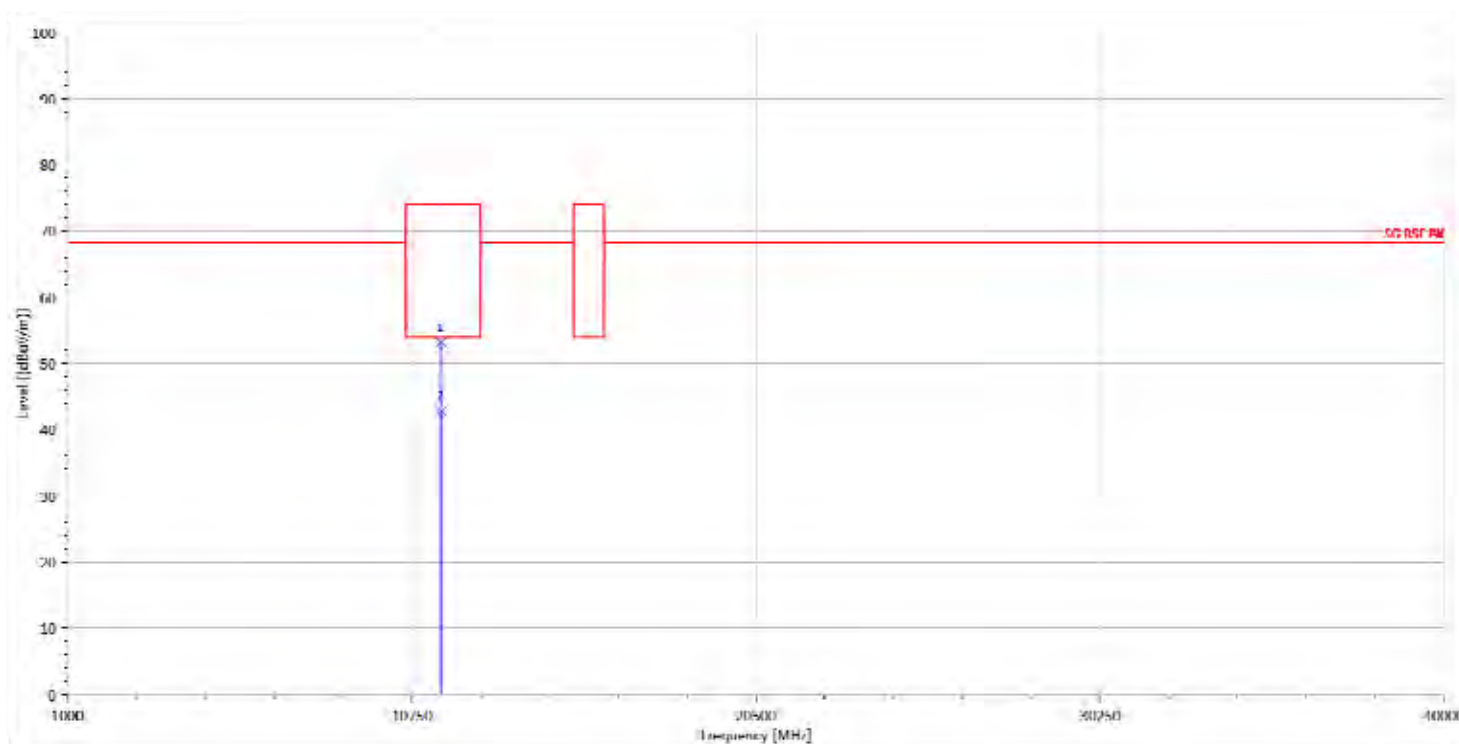
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11590.00	H	Peak	30.92	21.84	52.76	74	-21.24
11590.00	H	Average	20.96	21.84	42.80	54	-11.20

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Operation Mode :	802.11n40B4	Test Date :	2017/12/15
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11590.00	H	Peak	31.36	21.84	53.20	74	-20.80
11590.00	H	Average	20.98	21.84	42.82	54	-11.18

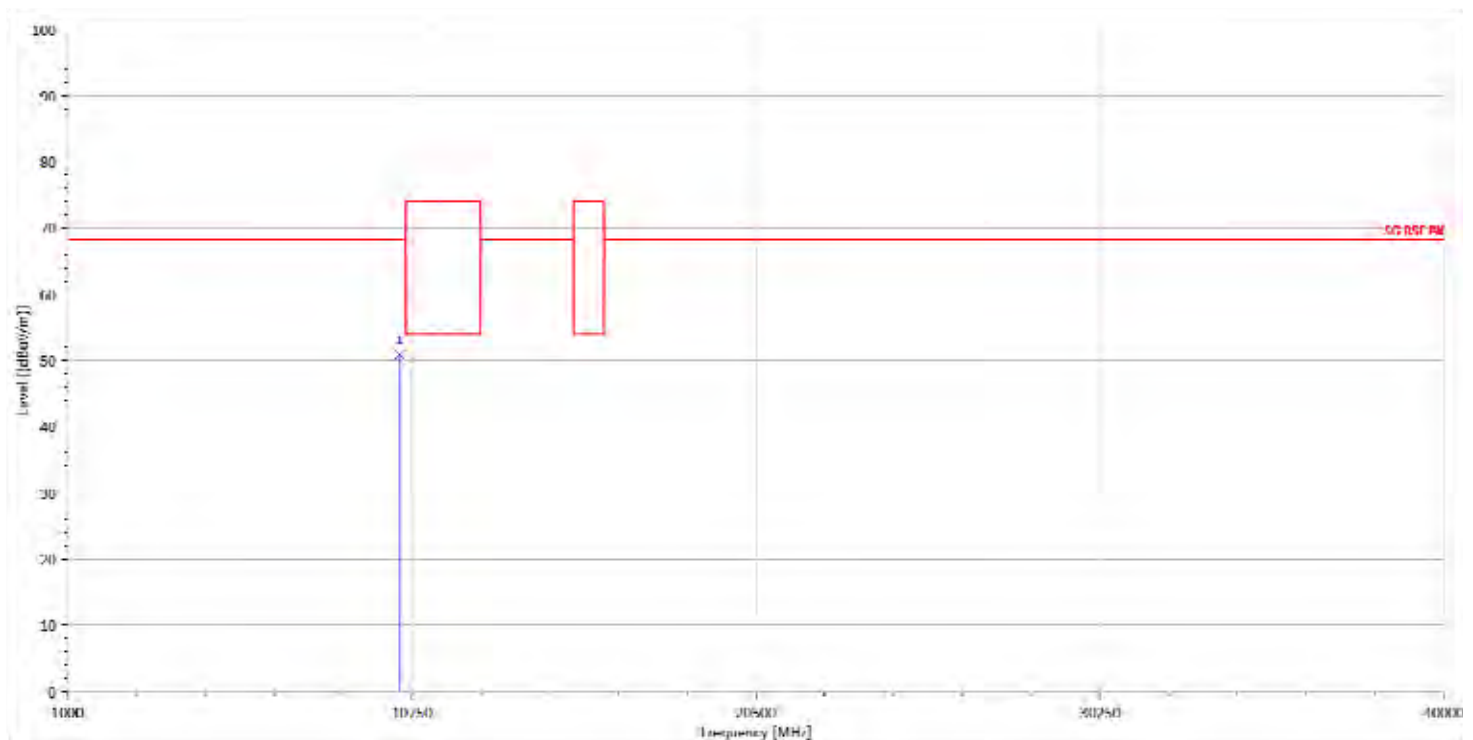
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Mode :	802.11ac80B1	Test Date :	2017/12/15
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



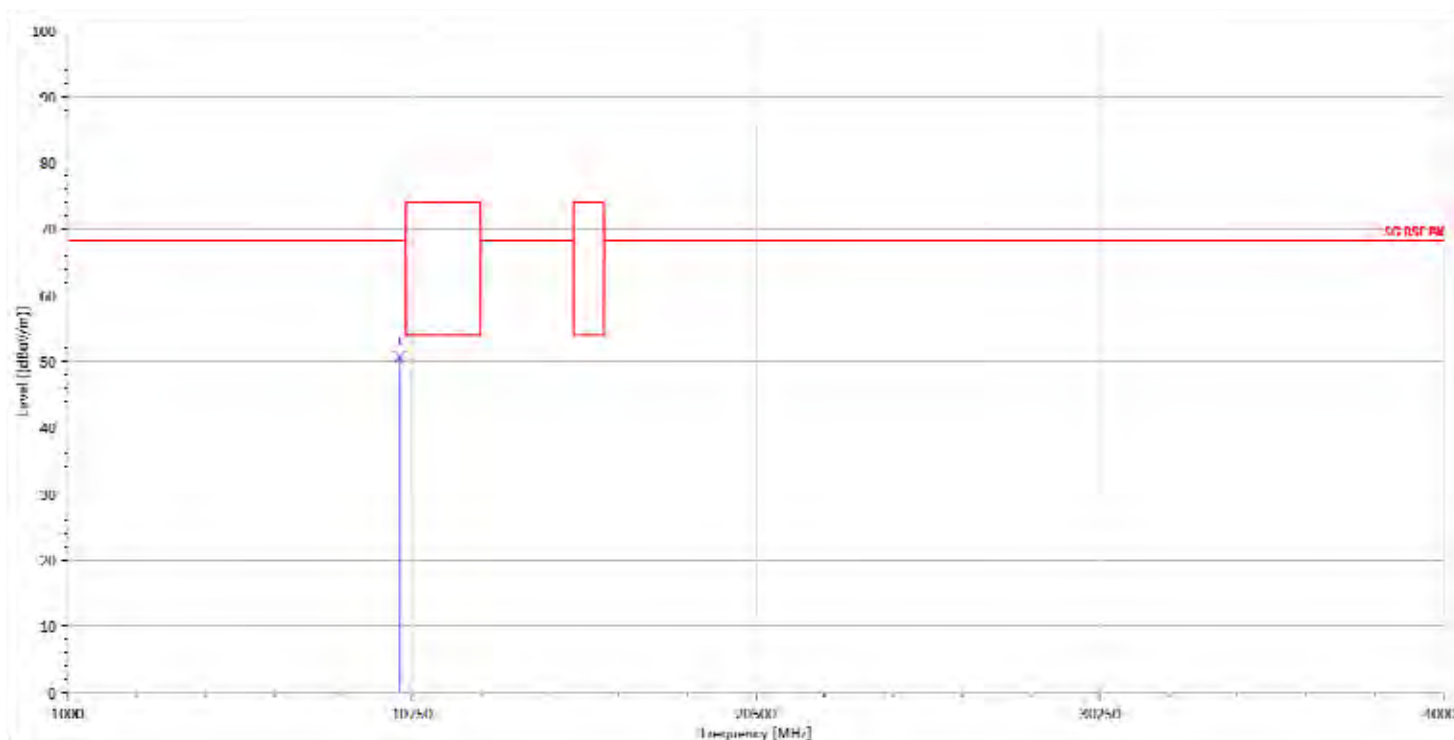
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10420.00	H	Peak	30.23	20.67	50.89	68.3	-17.41

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Operation Mode :	802.11ac80B1	Test Date :	2017/12/15
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10420.00	H	Peak	30.08	20.67	50.74	68.3	-17.56

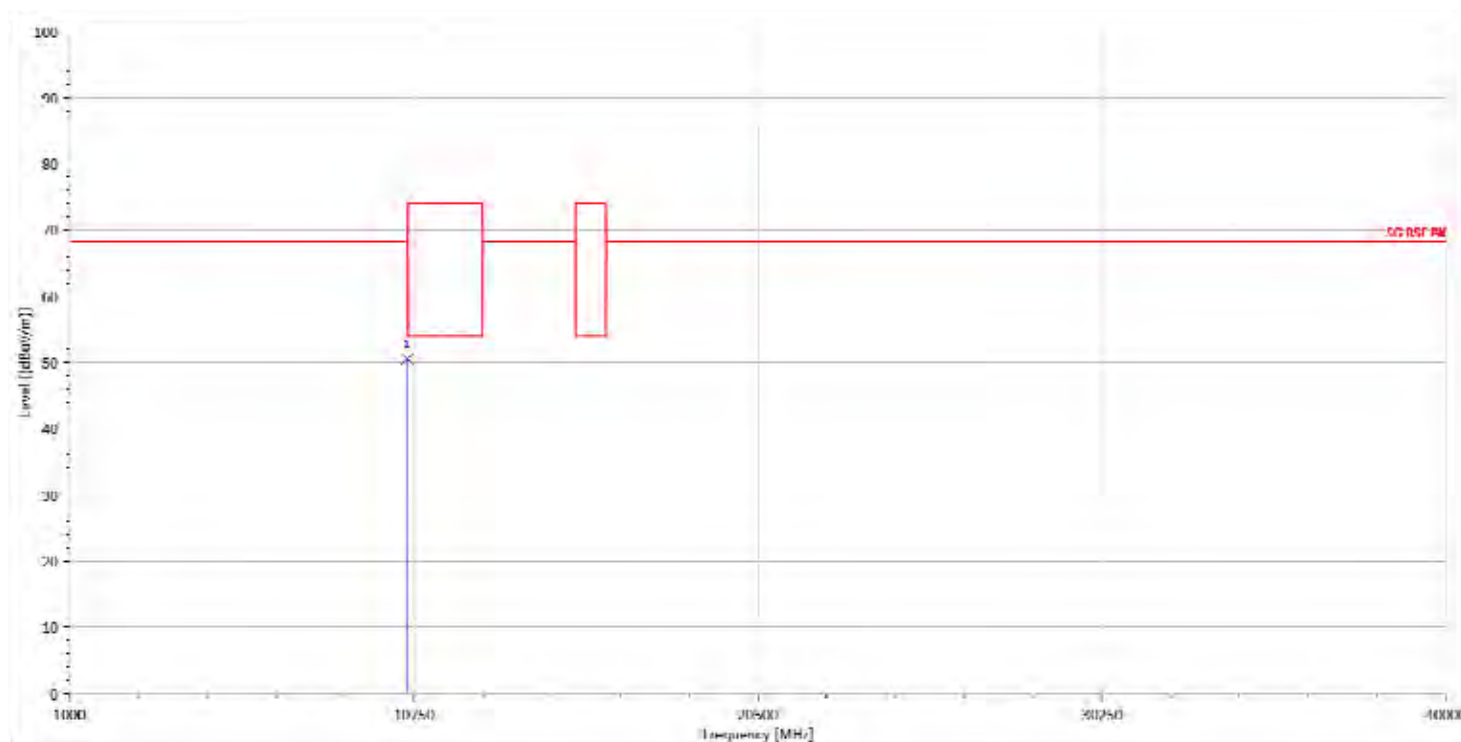
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

Operation Mode :	802.11ac80B2	Test Date :	2017/12/15
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



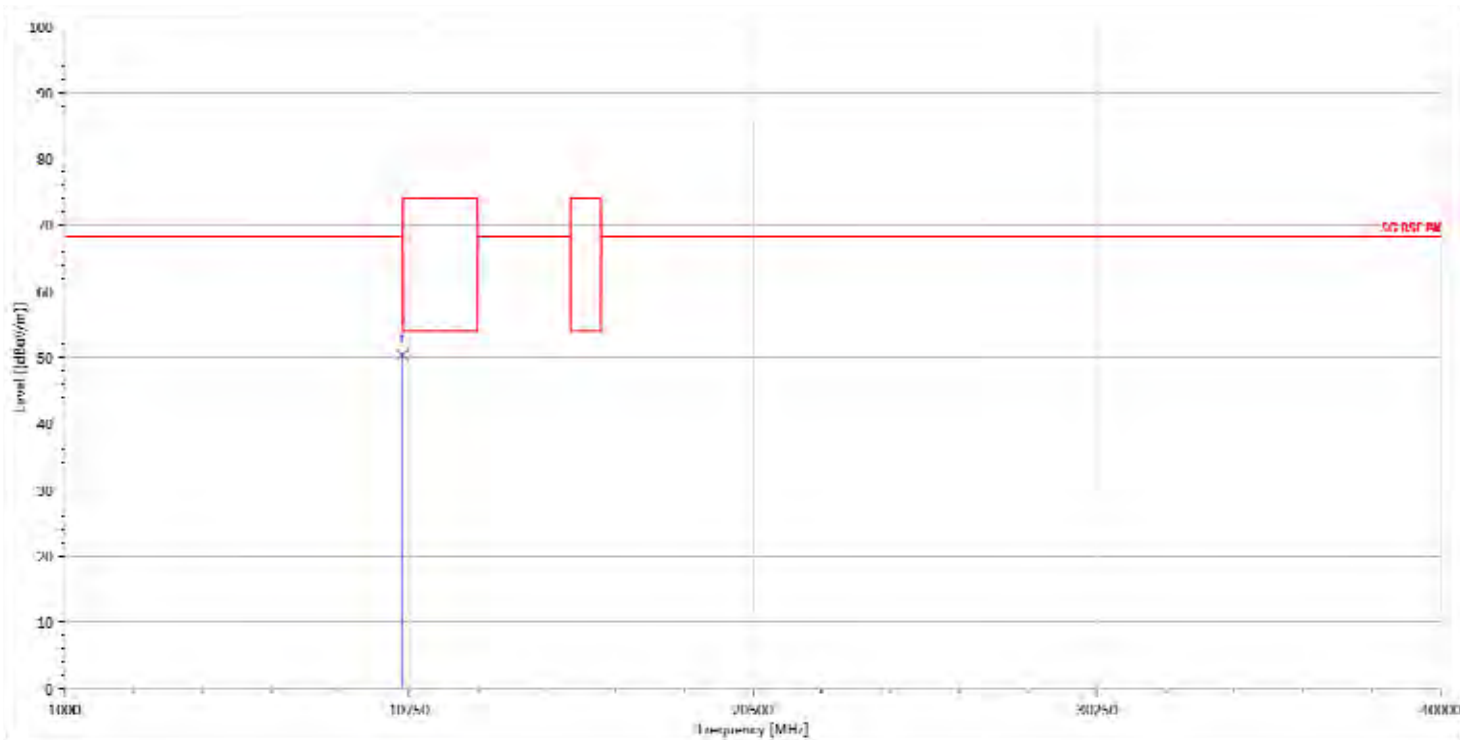
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10580.00	H	Peak	30.44	20.12	50.56	68.3	-17.74

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Operation Mode : 802.11ac80B2 Test Date : 2017/12/15
Fundamental Frequency : 5290 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10580.00	H	Peak	30.31	20.12	50.43	68.3	-17.87

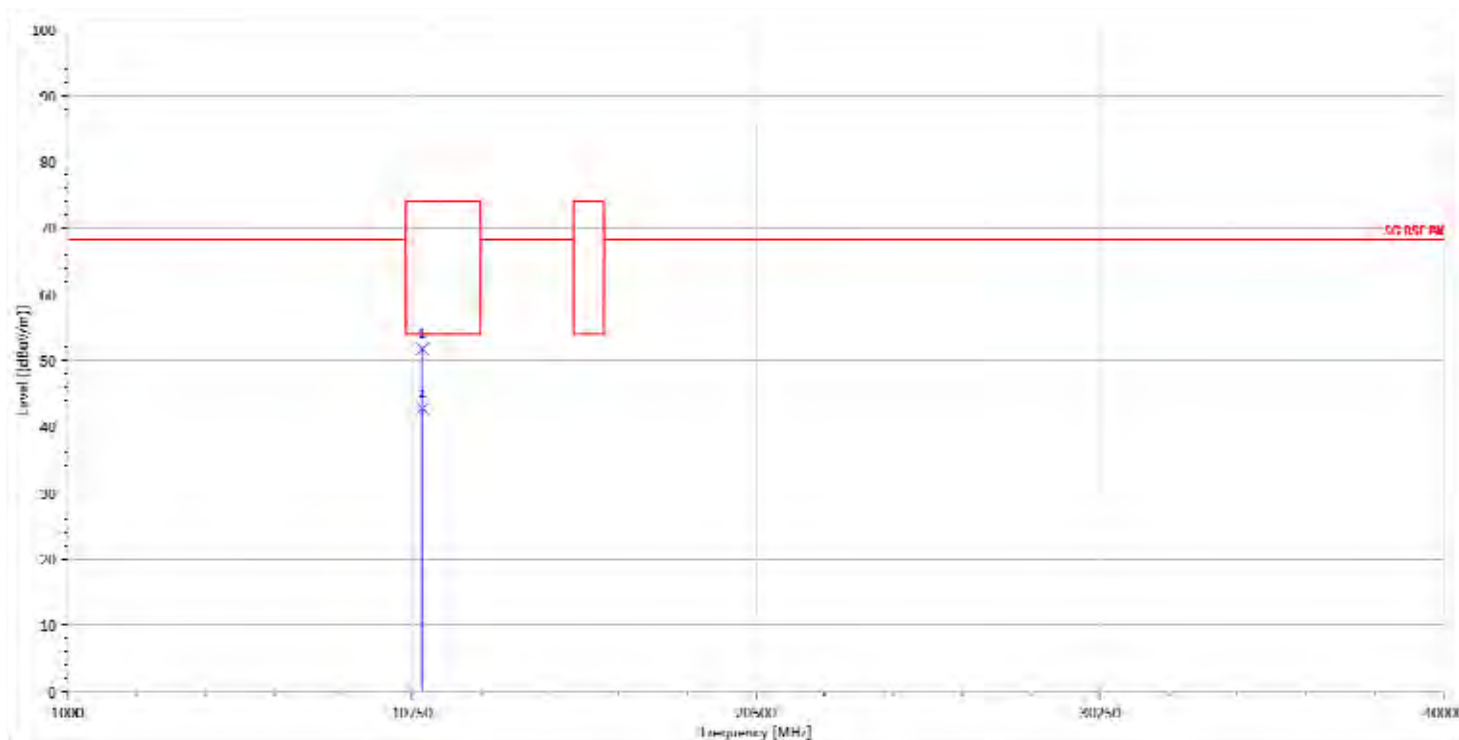
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

Operation Mode :	802.11ac80B3	Test Date :	2017/12/15
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



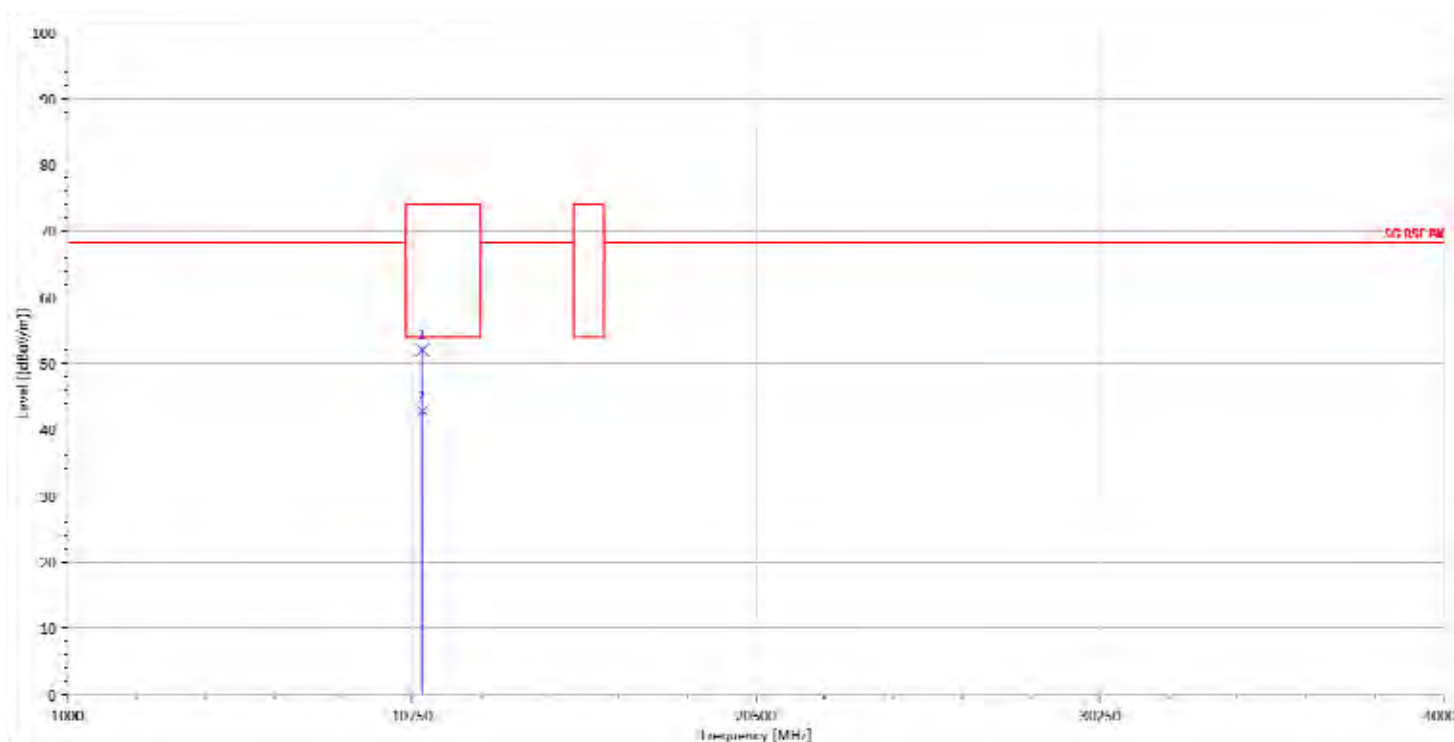
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11060.00	H	Peak	29.91	21.83	51.74	74	-22.26
11060.00	H	Average	20.95	21.83	42.78	54	-11.22

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Operation Mode :	802.11ac80B3	Test Date :	2017/12/15
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



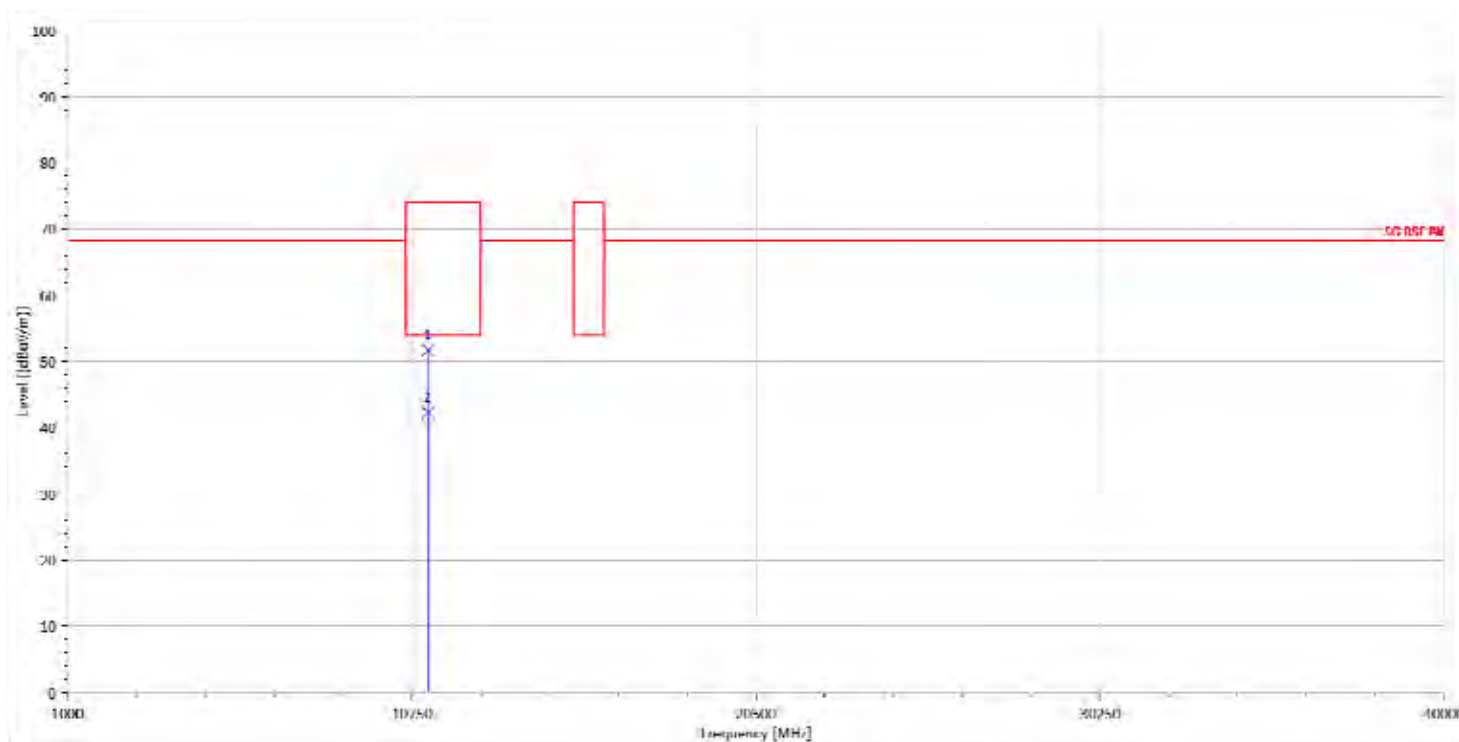
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11060.00	H	Peak	30.23	21.83	52.06	74	-21.94
11060.00	H	Average	21.01	21.83	42.84	54	-11.16

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Operation Mode :	802.11ac80B3	Test Date :	2017/12/15
Fundamental Frequency :	5610 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



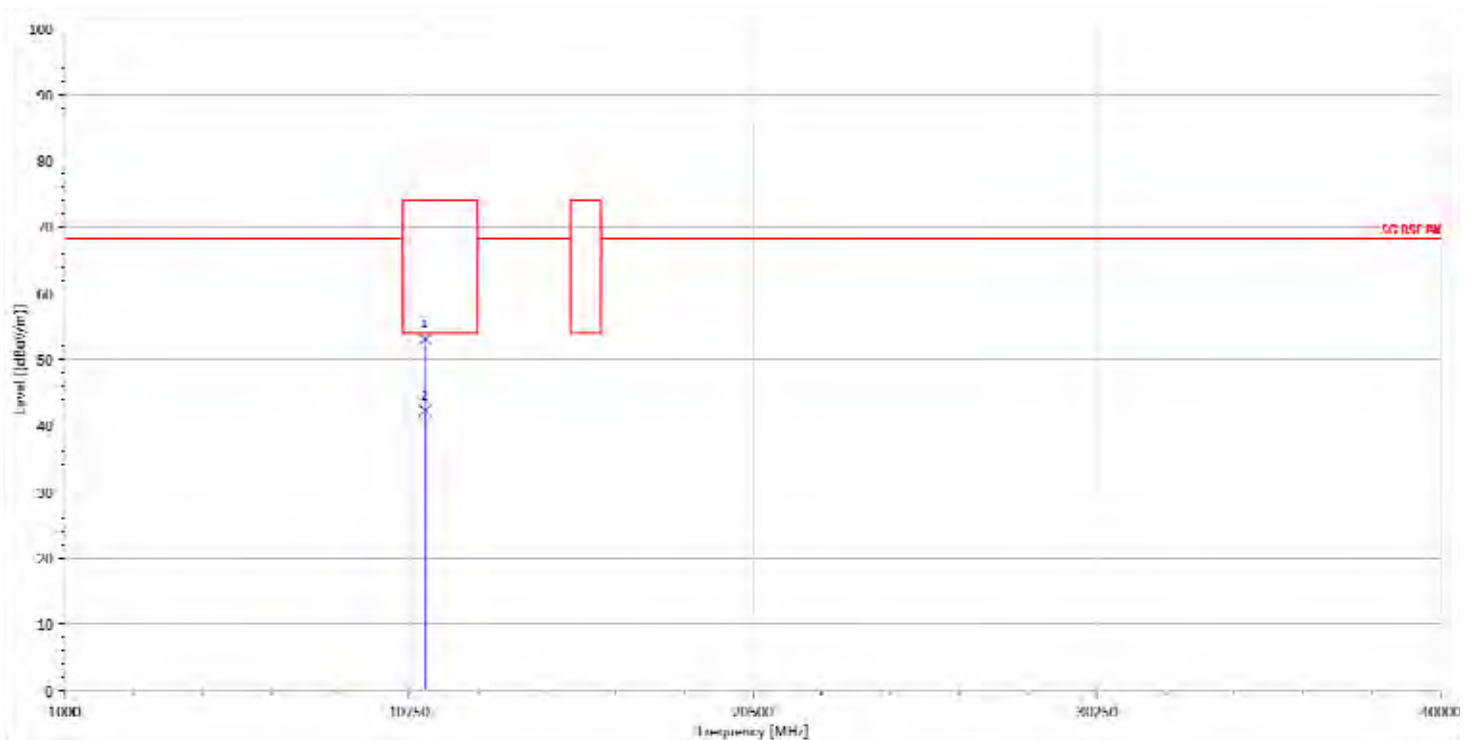
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11220.00	H	Peak	30.37	21.32	51.69	74	-22.31
11220.00	H	Average	20.98	21.32	42.30	54	-11.70

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Operation Mode :	802.11ac80B3	Test Date :	2017/12/15
Fundamental Frequency :	5610 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



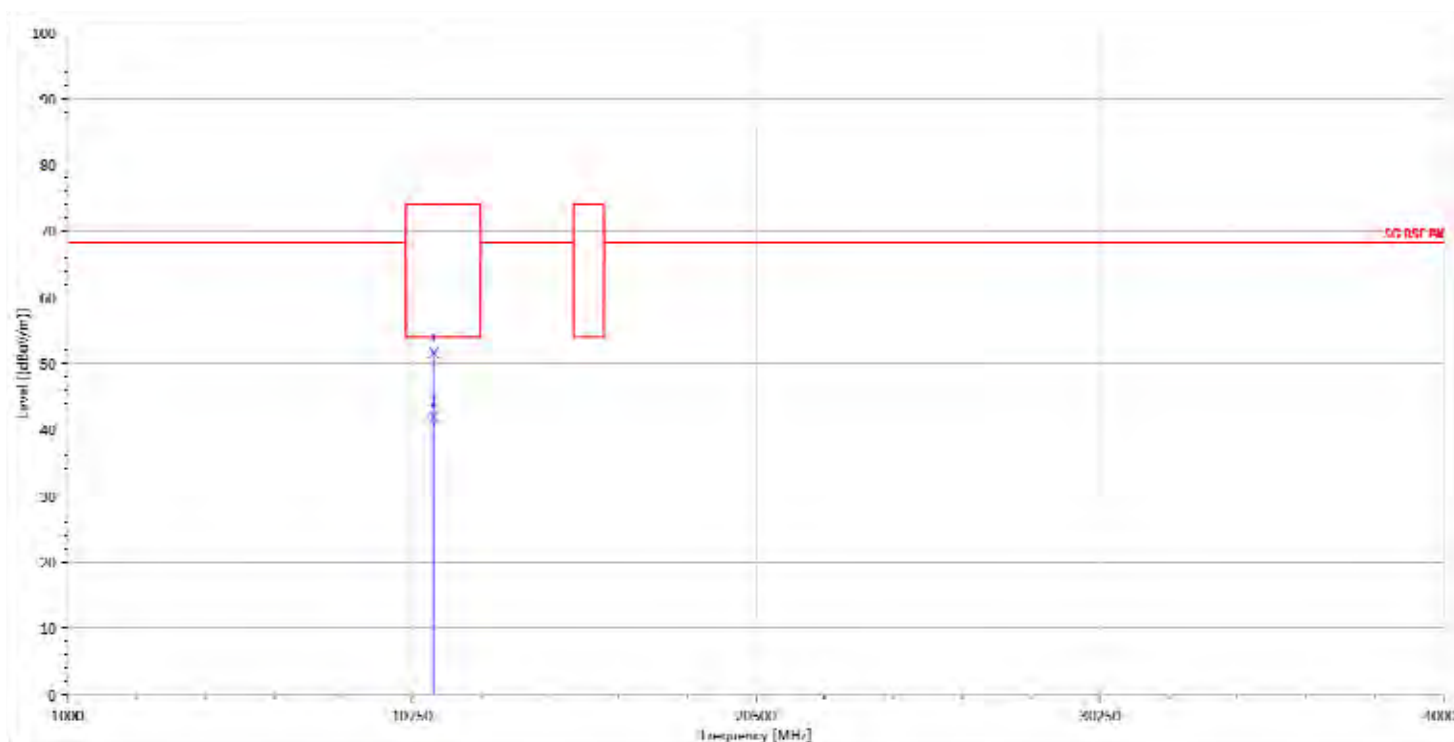
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11220.00	H	Peak	31.77	21.32	53.09	74	-20.91
11220.00	H	Average	20.96	21.32	42.28	54	-11.72

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Operation Mode :	802.11ac80B3	Test Date :	2017/12/15
Fundamental Frequency :	5690 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



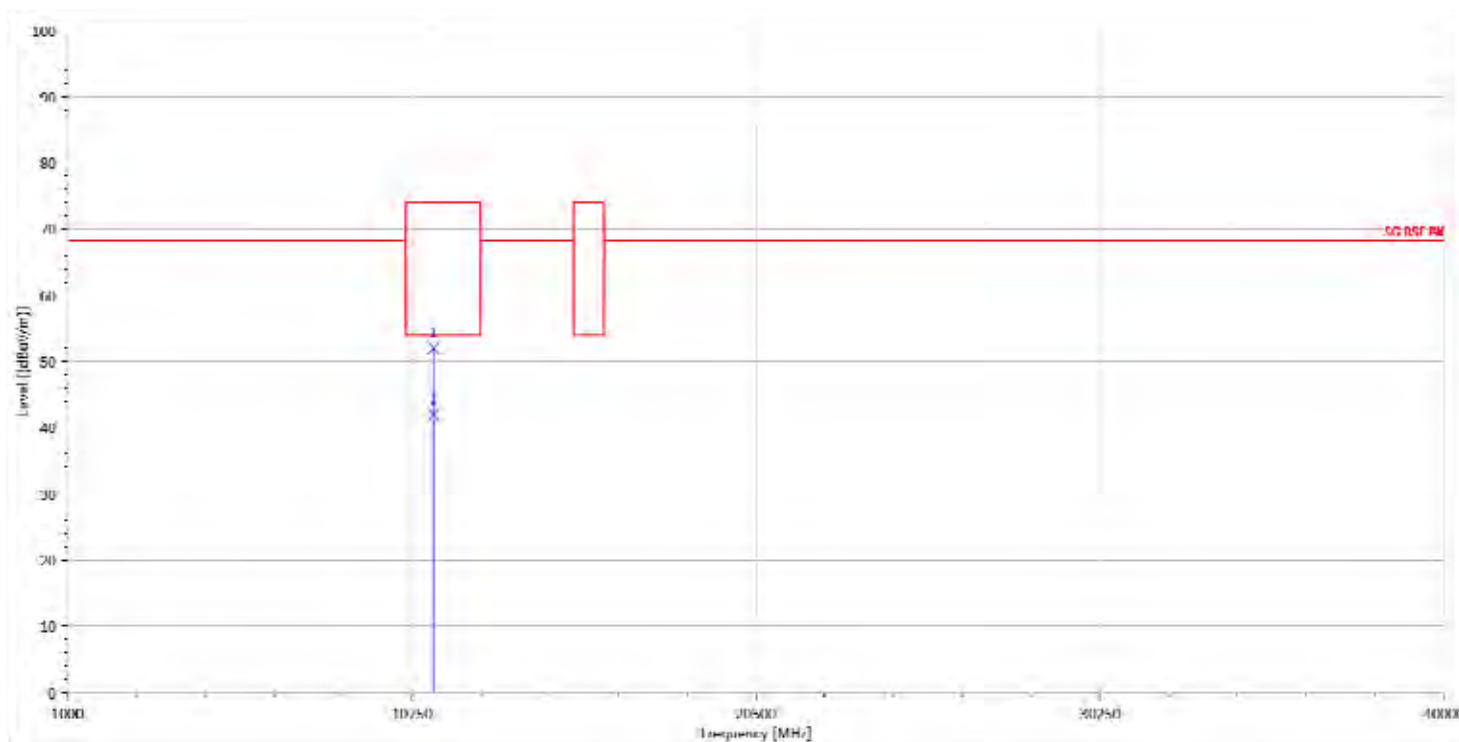
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11380.00	H	Peak	30.67	20.97	51.64	74	-22.36
11380.00	H	Average	20.96	20.97	41.93	54	-12.07

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Operation Mode :	802.11ac80B3	Test Date :	2017/12/15
Fundamental Frequency :	5690 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11380.00	H	Peak	31.04	20.97	52.01	74	-21.99
11380.00	H	Average	21.01	20.97	41.98	54	-12.02

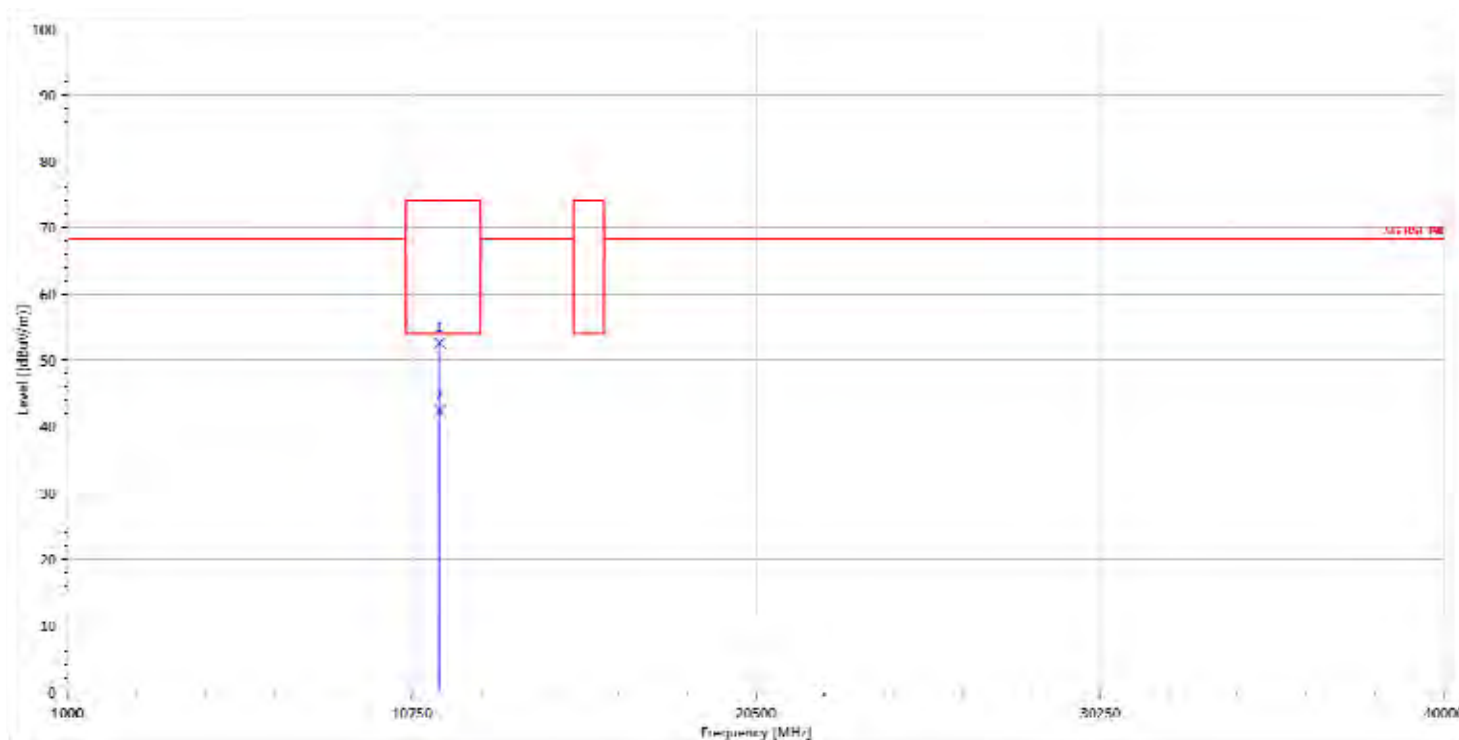
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz

Operation Mode :	802.11ac80B4	Test Date :	2017/12/15
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11550.00	H	Peak	31.22	21.41	52.63	74	-21.37
11550.00	H	Average	20.98	21.41	42.39	54	-11.61

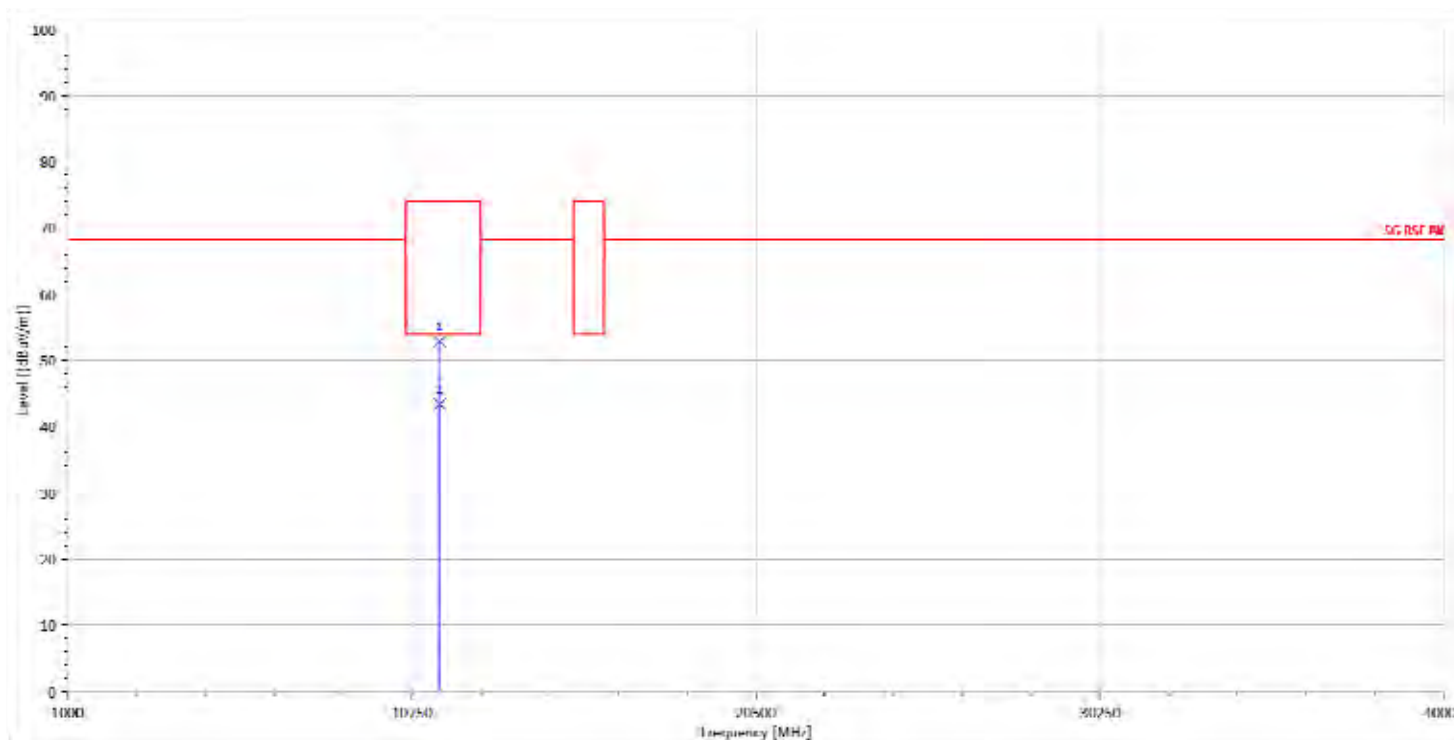
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Operation Mode : 802.11ac80B4
 Fundamental Frequency : 5775 MHz
 Operation Band : Tx CH Low
 EUT Pol. : E2

Test Date : 2017/12/15
 Temp. / Humi. : 22.7deg_C/57RH
 Test Engineer : Enzo
 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11550.00	H	Peak	31.44	21.41	52.85	74	-21.15
11550.00	H	Average	21.99	21.41	43.40	54	-10.60

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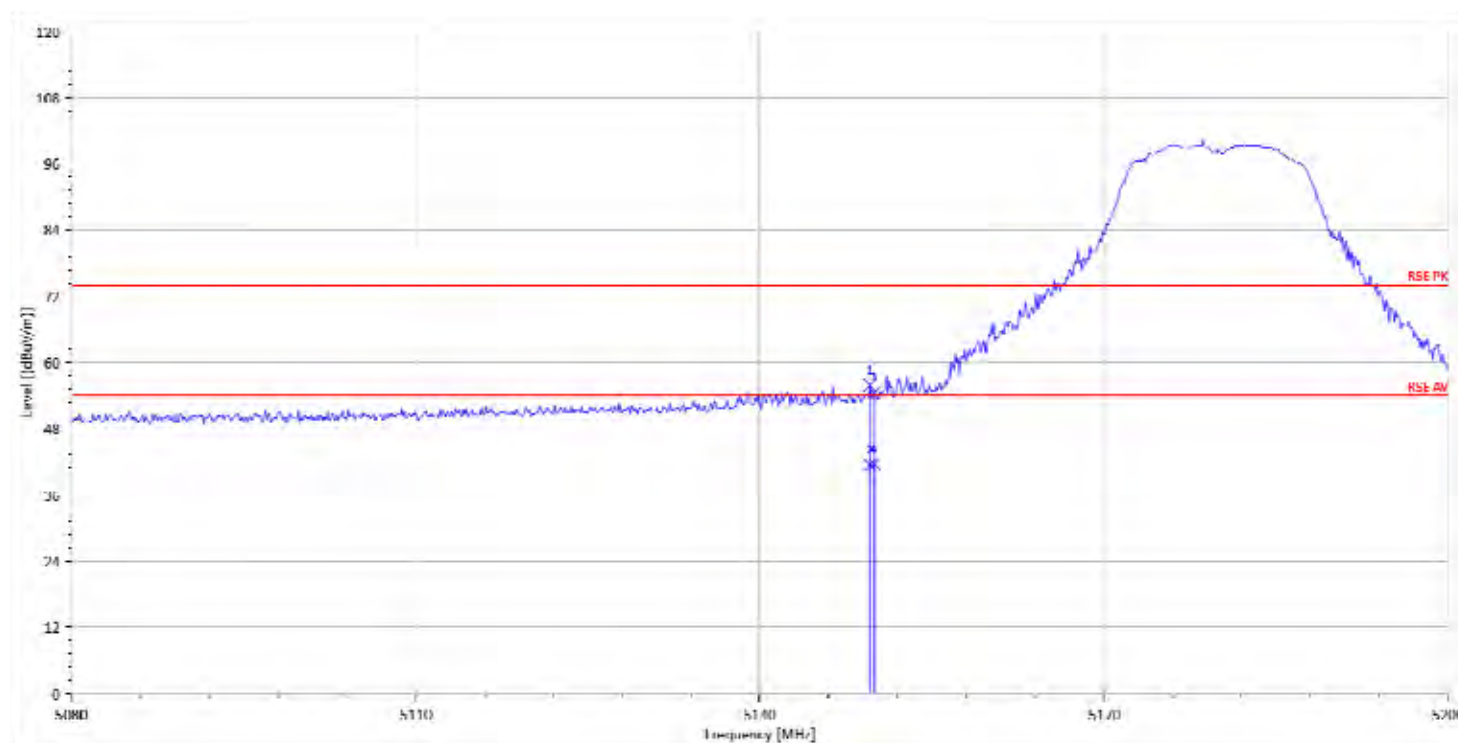
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Band edge falling to restricted band

802.11a mode

Operation Mode :	802.11aB1	Test Date :	2017/12/14
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



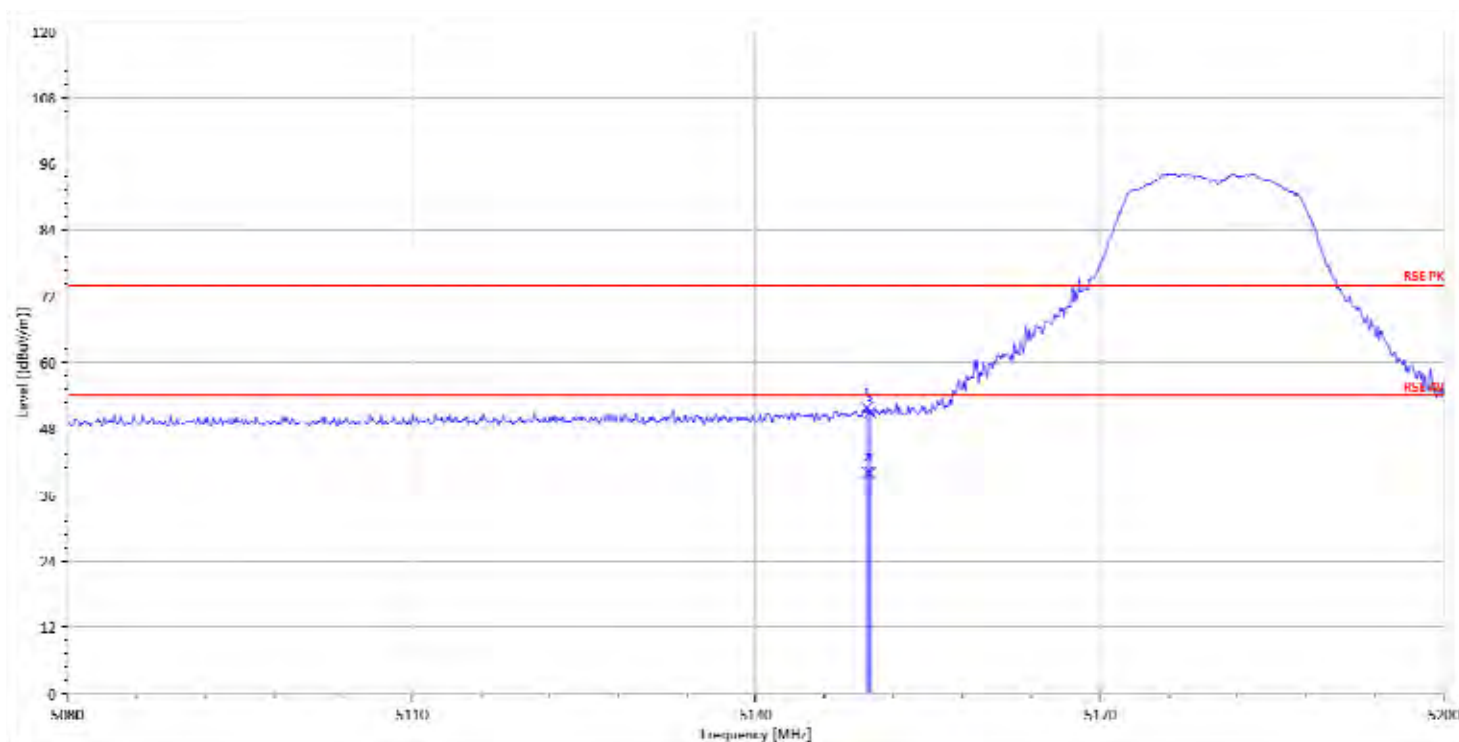
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5149.60	S	Peak	47.72	8.19	55.91	74	-18.09
5149.60	S	Average	33.25	8.19	41.44	54	-12.56
5150.00	E	Peak	46.31	8.19	54.51	74	-19.49
5150.00	E	Average	33.36	8.19	41.55	54	-12.45

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Operation Mode :	802.11aB1	Test Date :	2017/12/14
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



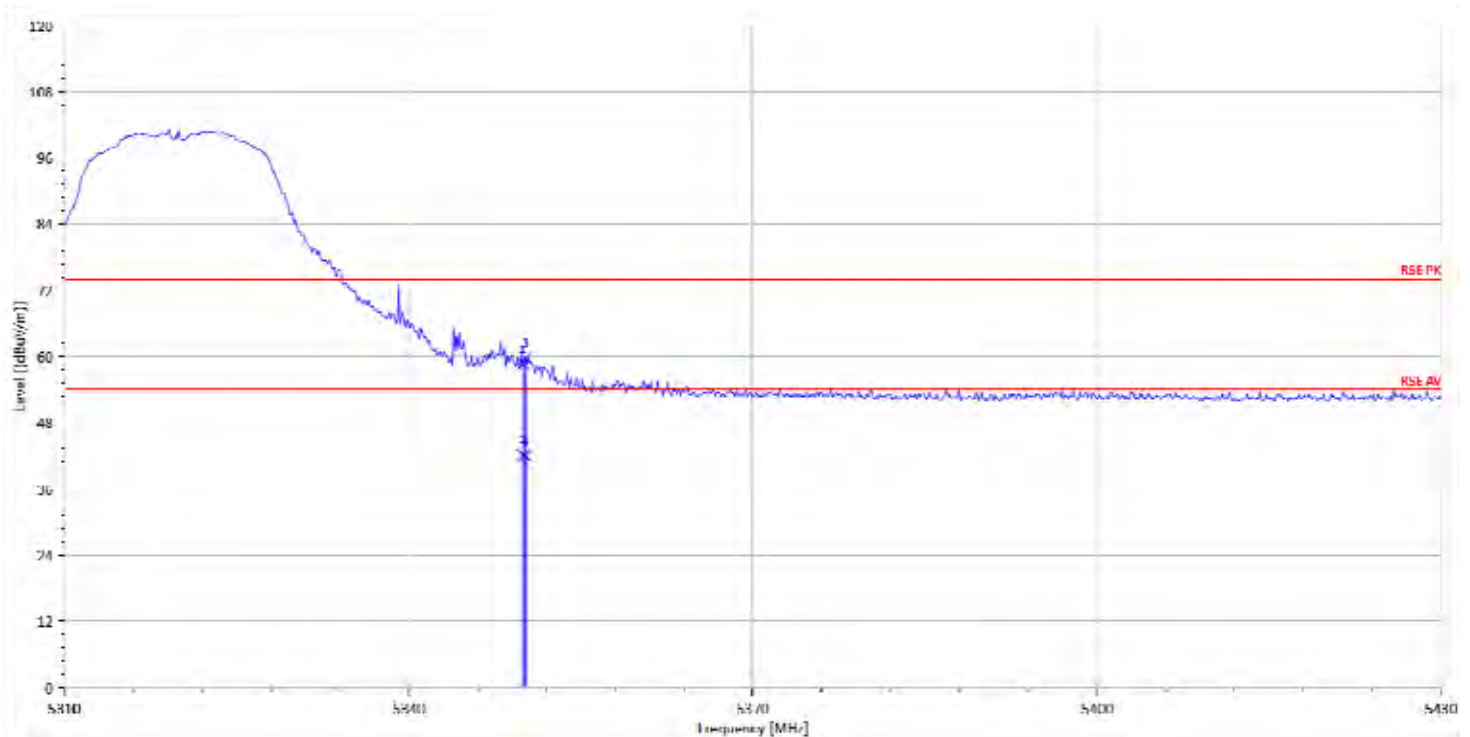
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5149.72	S	Peak	43.65	8.19	51.84	74	-22.16
5149.72	S	Average	31.82	8.19	40.01	54	-13.99
5150.00	E	Peak	42.78	8.19	50.97	74	-23.03
5150.00	E	Average	31.81	8.19	40.00	54	-14.00

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Operation Mode :	802.11aB2	Test Date :	2017/12/14
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



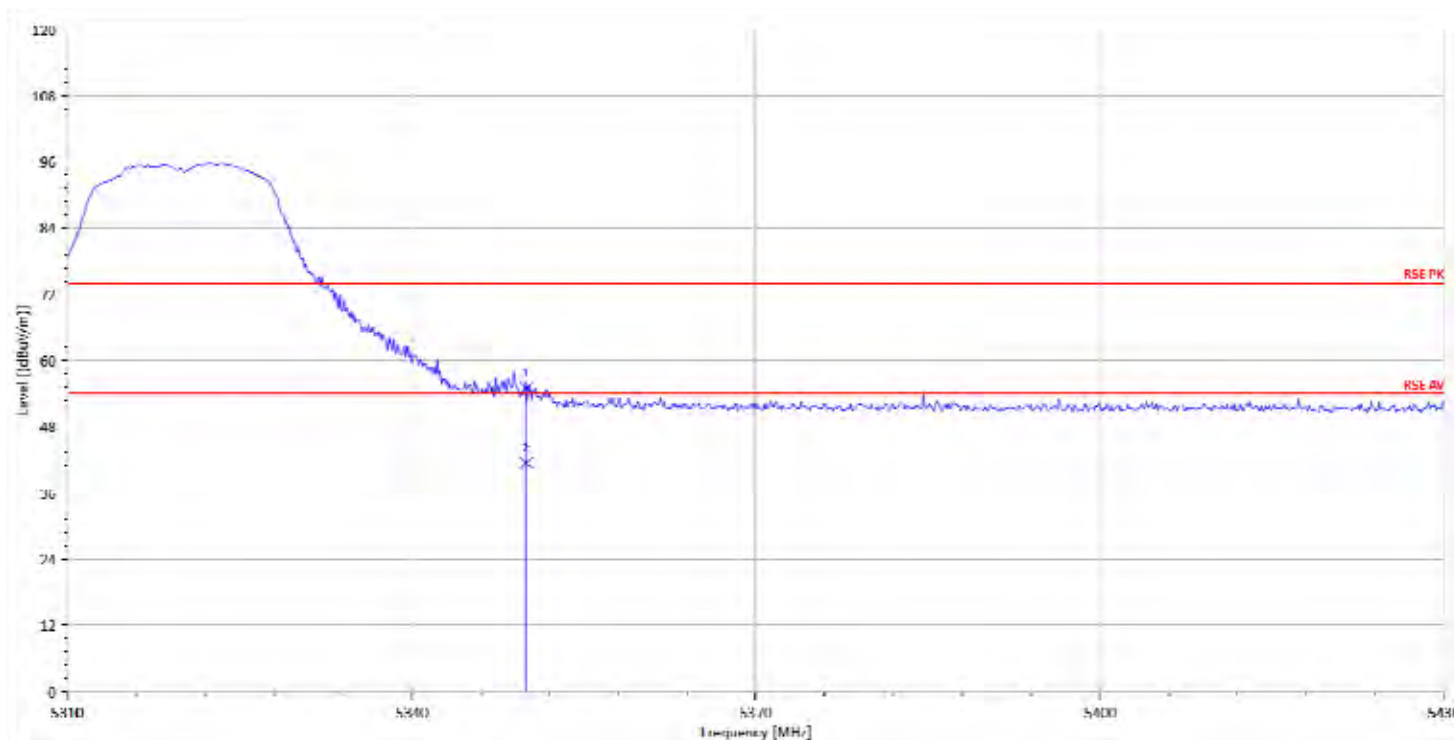
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	49.74	8.96	58.70	74	-15.30
5350.00	E	Average	33.18	8.96	42.14	54	-11.86
5350.20	S	Peak	50.74	8.97	59.71	74	-14.29
5350.20	S	Average	32.98	8.97	41.95	54	-12.05

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Operation Mode :	802.11aB2	Test Date :	2017/12/14
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



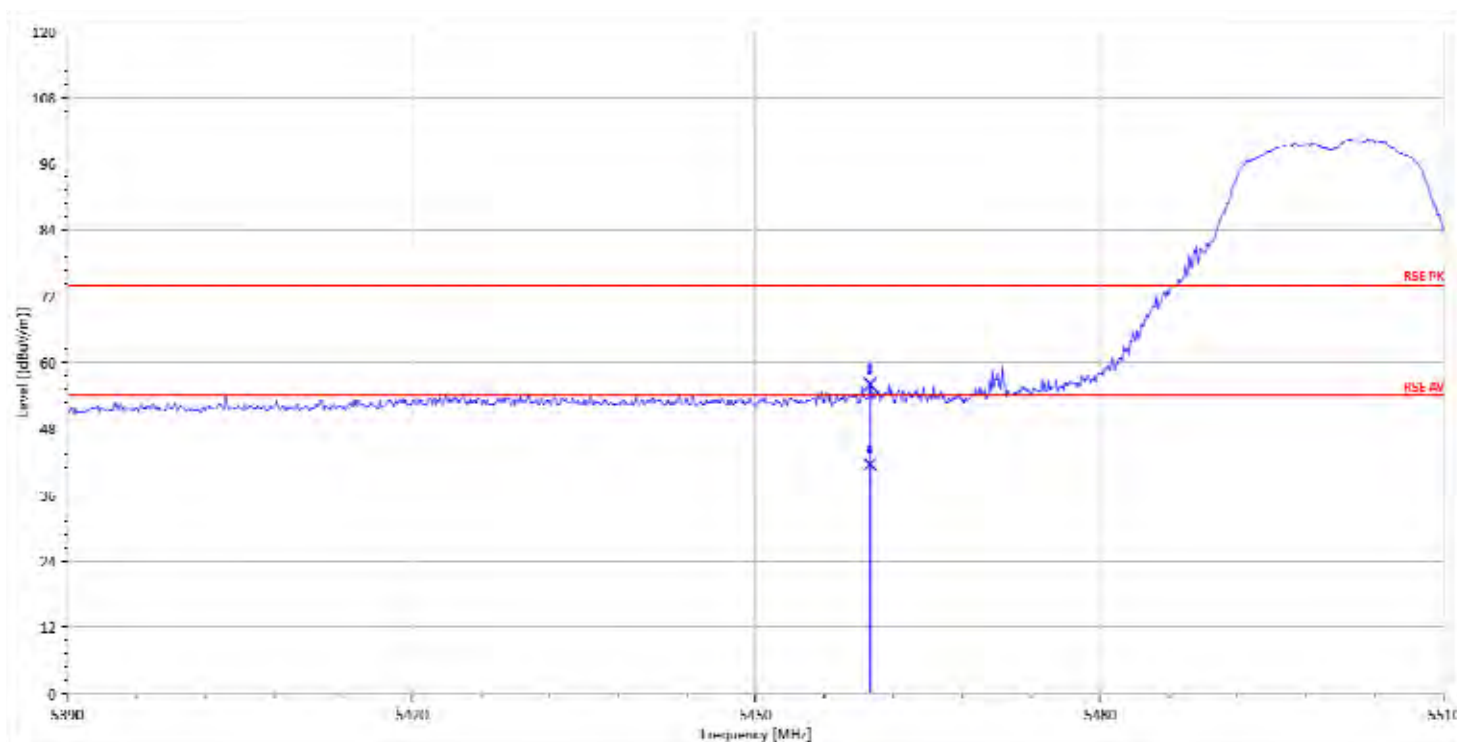
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	46.06	8.96	55.02	74	-18.98
5350.00	E	Average	32.43	8.96	41.39	54	-12.61

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Operation Mode :	802.11aB3	Test Date :	2017/12/14
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



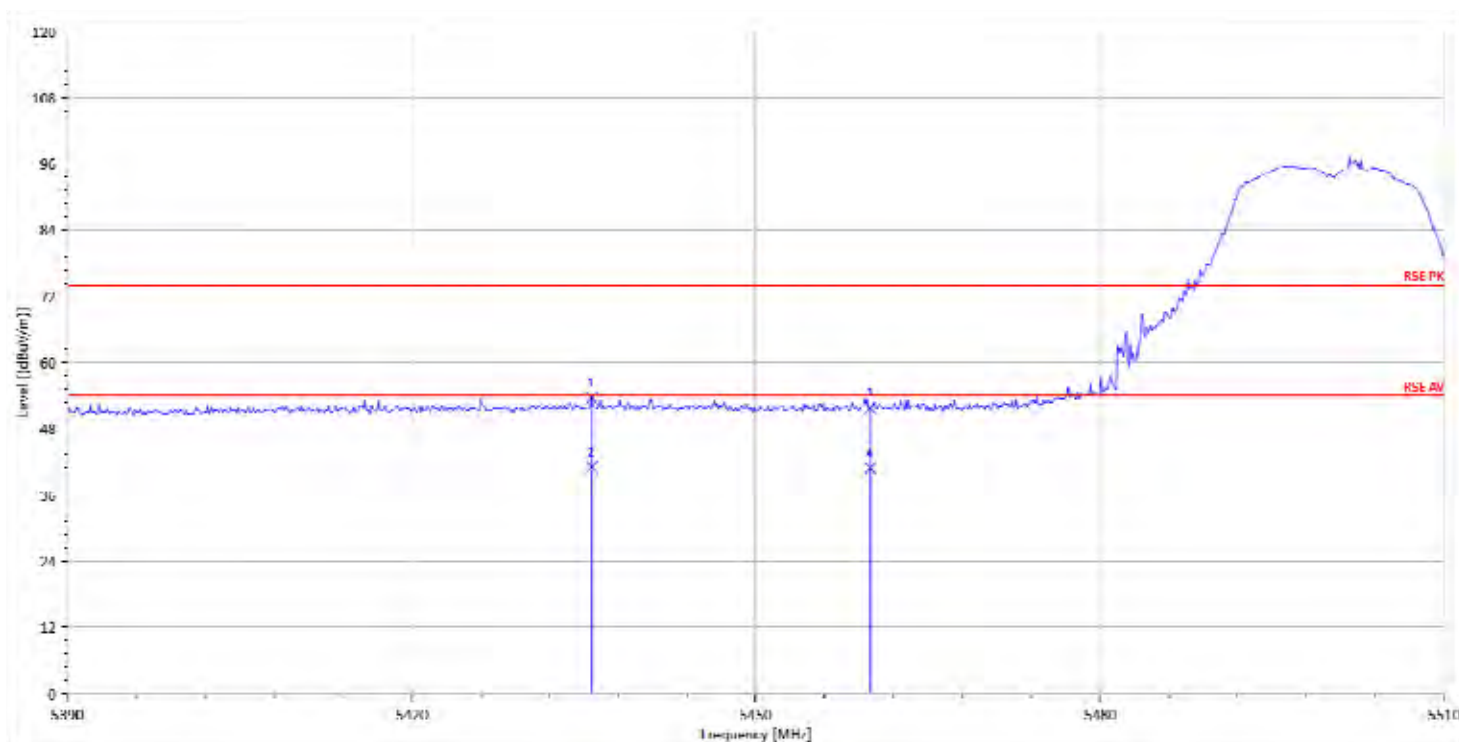
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5459.96	S	Peak	47.34	8.88	56.23	74	-17.77
5459.96	S	Average	32.57	8.88	41.45	54	-12.55
5460.00	E	Peak	46.99	8.88	55.88	74	-18.12
5460.00	E	Average	32.73	8.88	41.61	54	-12.39

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Operation Mode :	802.11aB3	Test Date :	2017/12/14
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



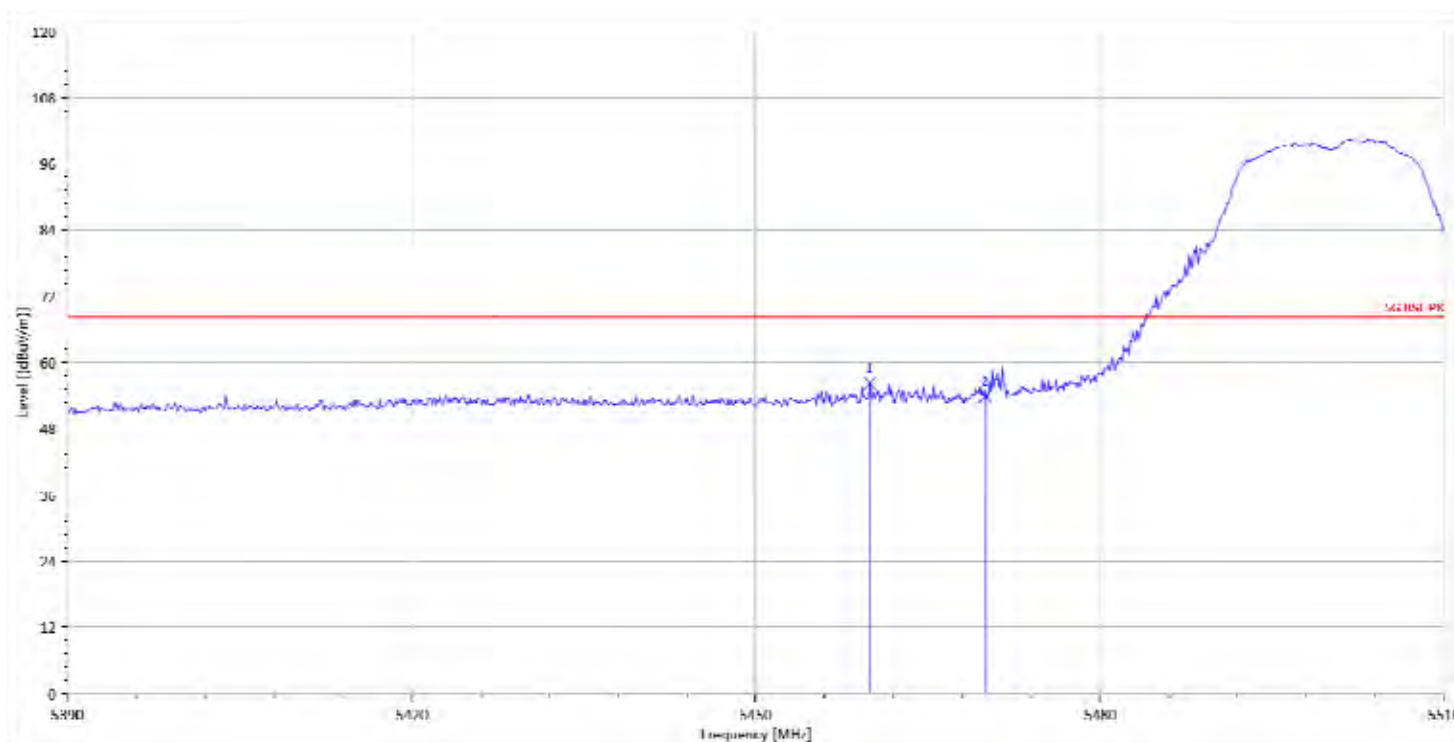
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5435.72	S	Peak	44.44	9.15	53.59	74	-20.41
5435.72	S	Average	31.90	9.15	41.05	54	-12.95
5460.00	E	Peak	42.87	8.88	51.76	74	-22.24
5460.00	E	Average	31.96	8.88	40.84	54	-13.16

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Operation Mode :	802.11aB3	Test Date :	2017/12/14
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW RSE	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



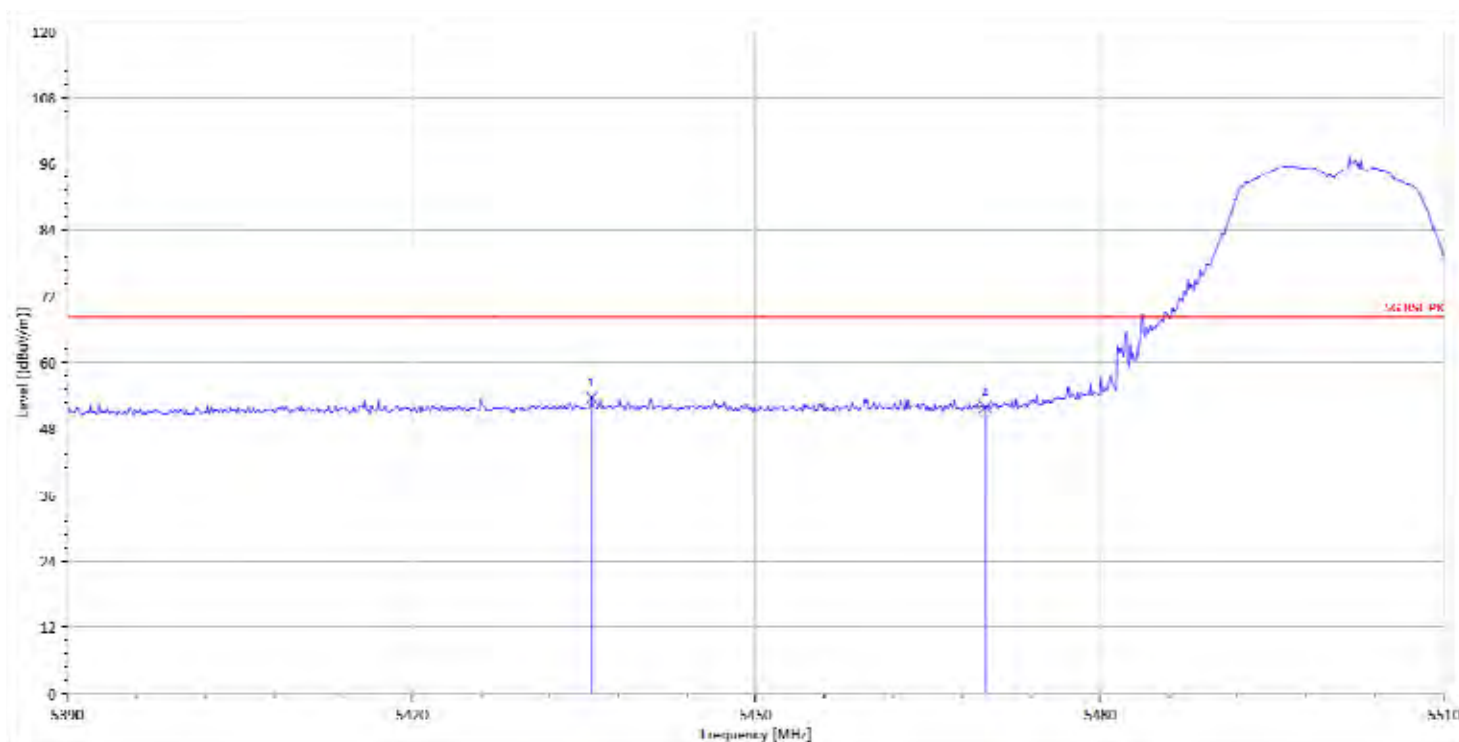
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5459.96	S	Peak	47.34	8.88	56.23	68.3	-12.07
5470.00	E	Peak	45.08	8.79	53.87	68.3	-14.43

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Operation Mode :	802.11aB3	Test Date :	2017/12/14
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW RSE	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



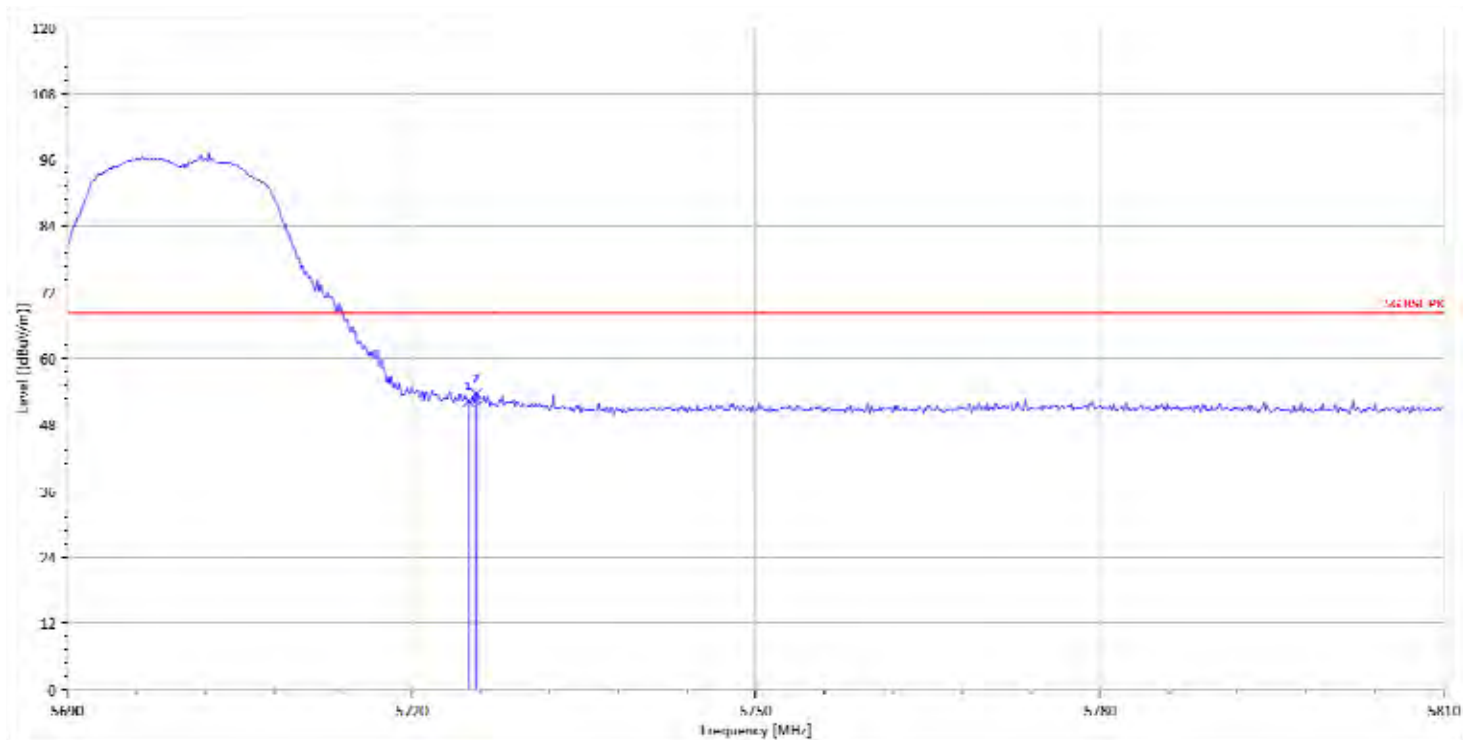
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5435.72	S	Peak	44.44	9.15	53.59	68.3	-14.71
5470.00	E	Peak	43.15	8.79	51.94	68.3	-16.36

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Operation Mode :	802.11aB3	Test Date :	2017/12/14
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



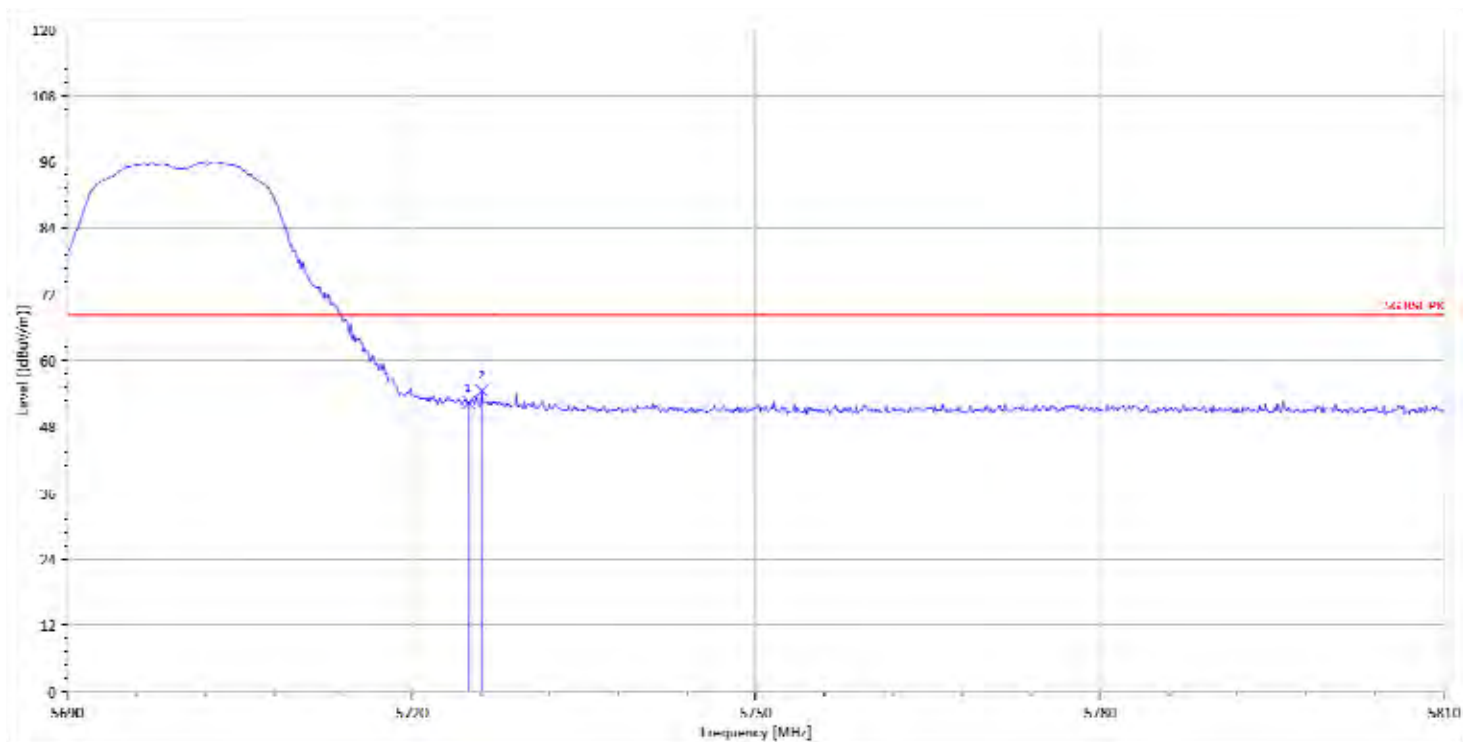
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	E	Peak	43.00	9.30	52.30	68.3	-16.00
5725.64	S	Peak	44.32	9.30	53.62	68.3	-14.68

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Operation Mode :	802.11aB3	Test Date :	2017/12/14
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



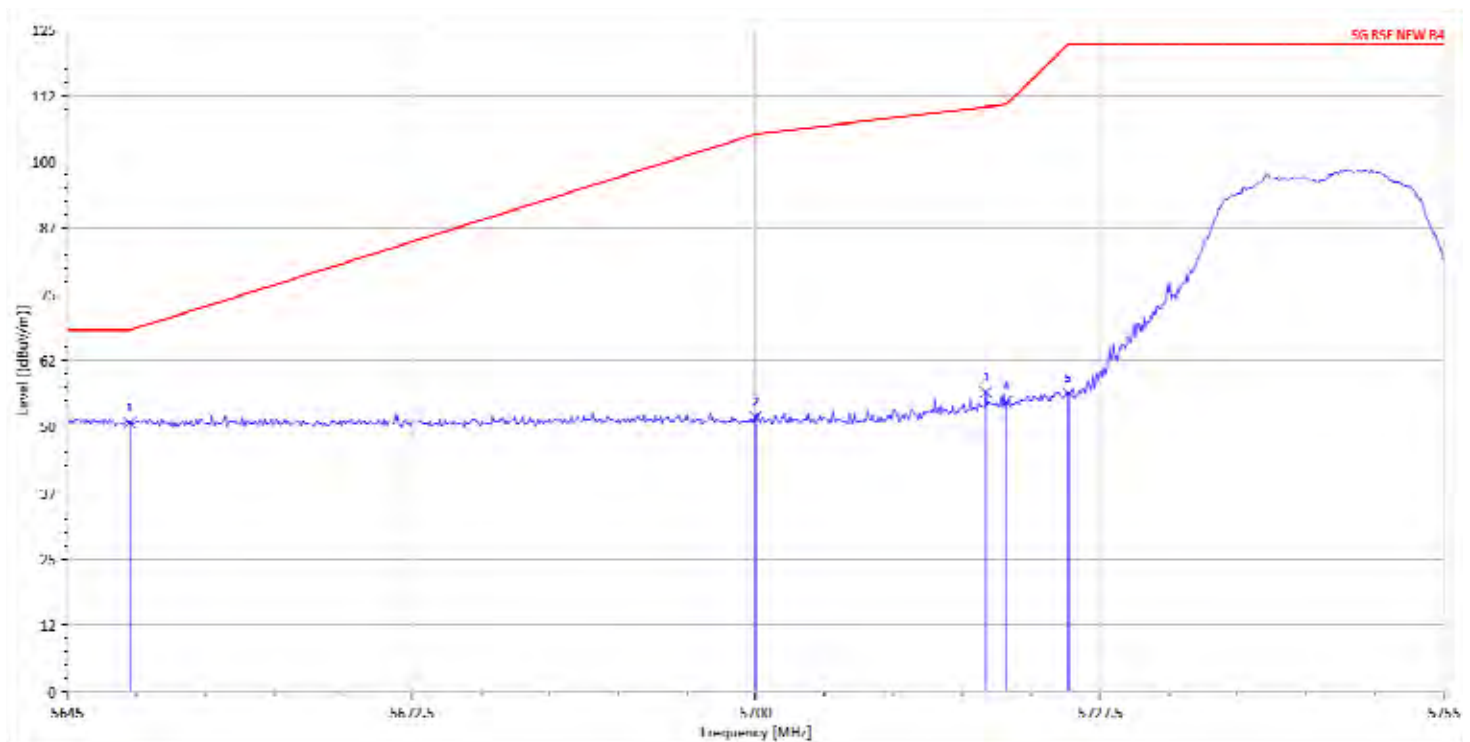
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	E	Peak	43.11	9.30	52.41	68.3	-15.89
5726.12	S	Peak	45.24	9.30	54.54	68.3	-13.76

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Operation Mode :	802.11aB4	Test Date :	2017/12/14
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



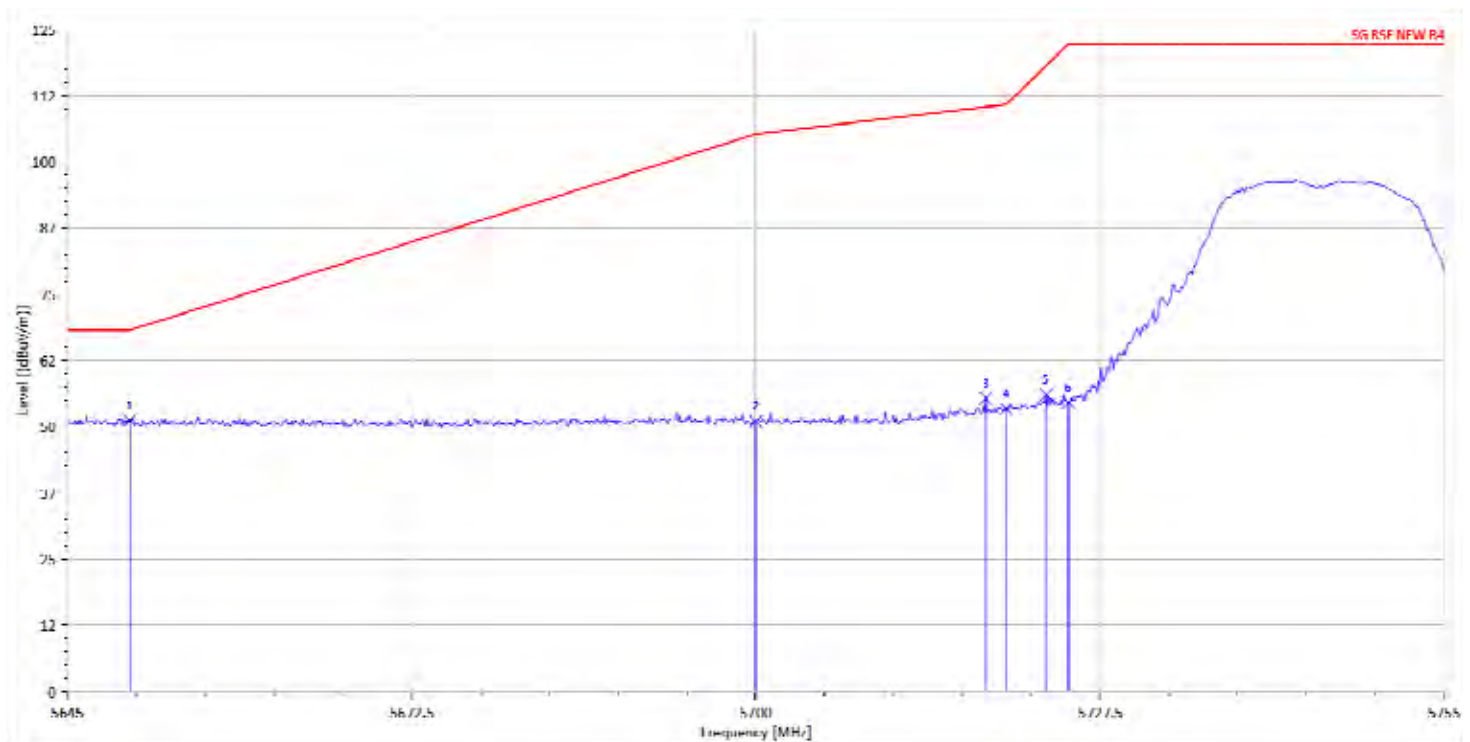
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	41.41	9.33	50.75	68.23	-17.48
5700.00	S	Peak	42.40	9.44	51.83	105.23	-53.40
5718.37	S	Peak	47.22	9.27	56.49	110.3736	-53.88
5720.00	S	Peak	45.43	9.28	54.71	110.83	-56.12
5725.00	E	Peak	47.03	9.30	56.33	122.23	-65.90

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Operation Mode : 802.11aB4 Test Date : 2017/12/14
Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH LOW Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



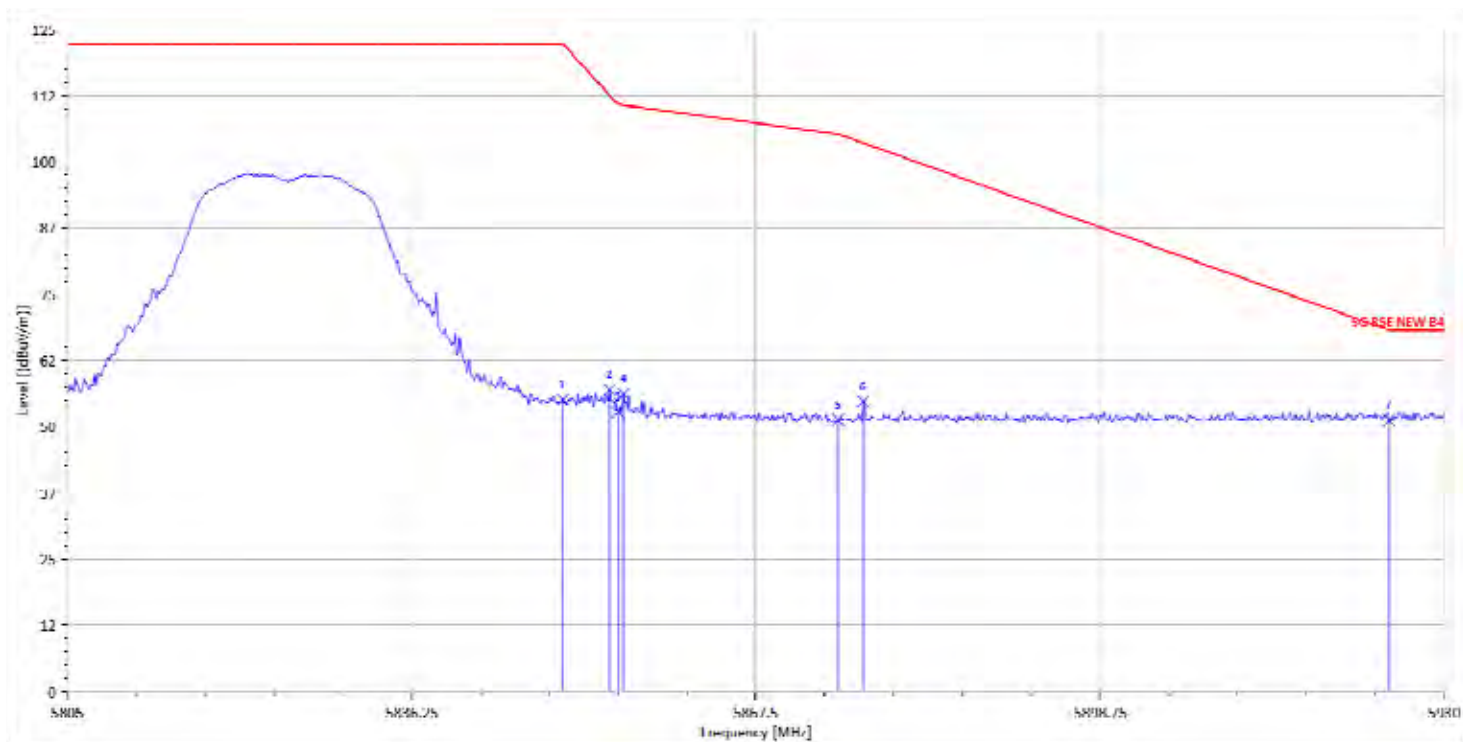
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	41.86	9.33	51.19	68.23	-17.04
5700.00	S	Peak	41.58	9.44	51.02	105.23	-54.21
5718.37	S	Peak	46.11	9.27	55.38	110.3736	-54.99
5720.00	S	Peak	44.11	9.28	53.39	110.83	-57.44
5723.21	S	Peak	46.76	9.29	56.05	118.1487	-62.10
5725.00	E	Peak	45.30	9.30	54.60	122.23	-67.63

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Operation Mode :	802.11aB4	Test Date :	2017/12/14
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



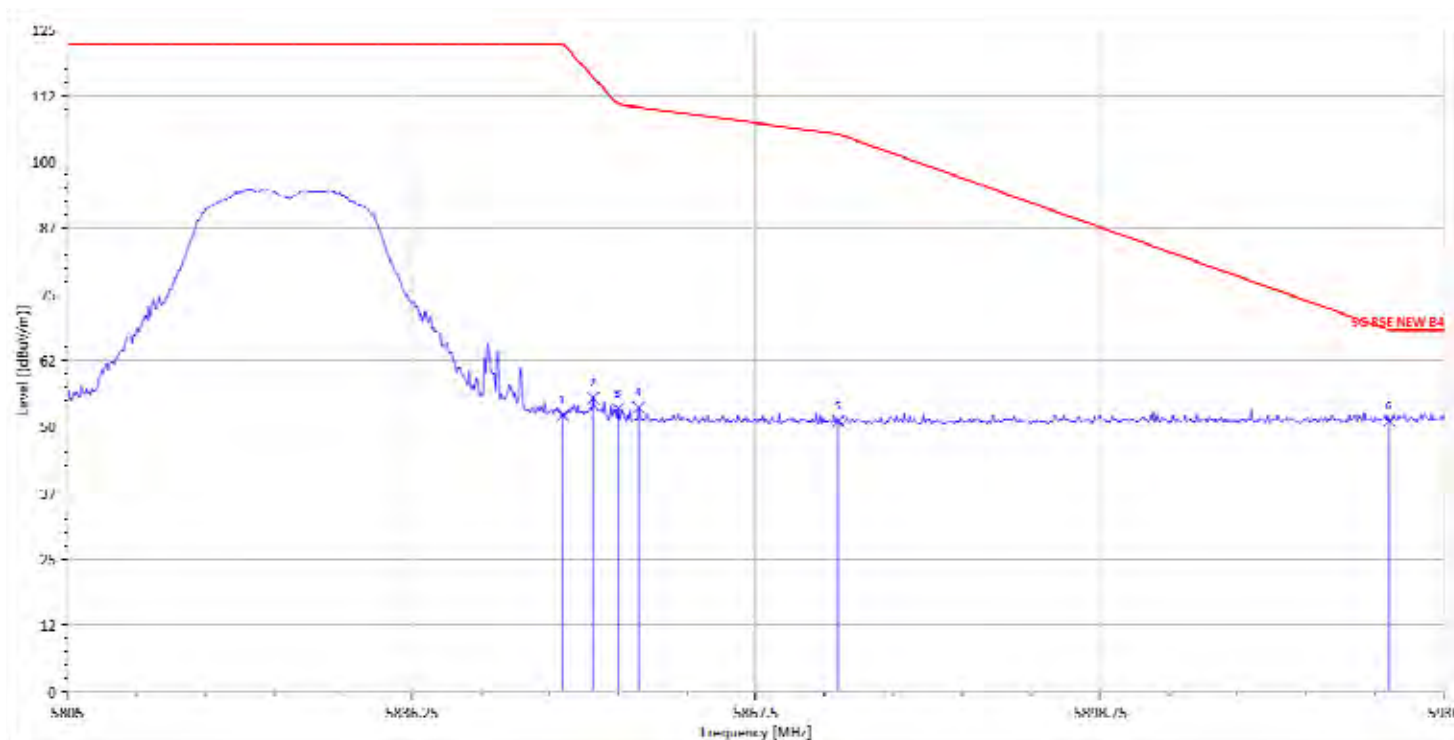
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	45.63	9.49	55.12	122.23	-67.11
5854.25	S	Peak	47.49	9.57	57.05	112.54	-55.49
5855.00	S	Peak	43.18	9.58	52.76	110.83	-58.07
5855.50	S	Peak	46.60	9.59	56.19	110.69	-54.50
5875.00	S	Peak	41.69	9.63	51.32	105.23	-53.91
5877.25	S	Peak	45.17	9.62	54.79	103.565	-48.78
5925.00	S	Peak	41.23	10.01	51.24	68.23	-16.99

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Operation Mode :	802.11aB4	Test Date :	2017/12/14
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	42.71	9.49	52.20	122.23	-70.03
5852.75	S	Peak	45.89	9.54	55.43	115.96	-60.53
5855.00	S	Peak	43.89	9.58	53.47	110.83	-57.36
5856.88	S	Peak	43.99	9.62	53.60	110.305	-56.70
5875.00	S	Peak	41.41	9.63	51.04	105.23	-54.19
5925.00	S	Peak	41.16	10.01	51.17	68.23	-17.06

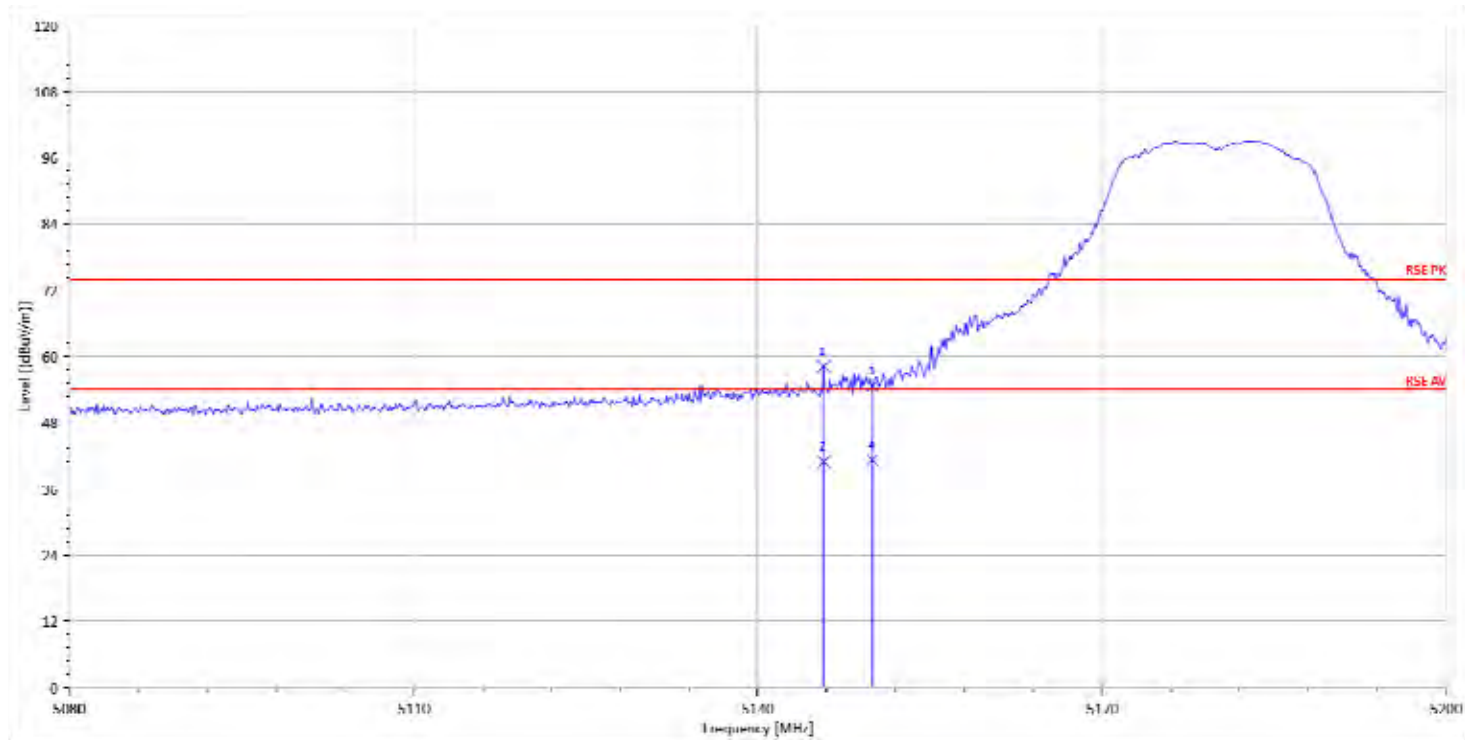
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802.11n20 HT mode

Operation Mode :	802.11n20B1	Test Date :	2017/12/14
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



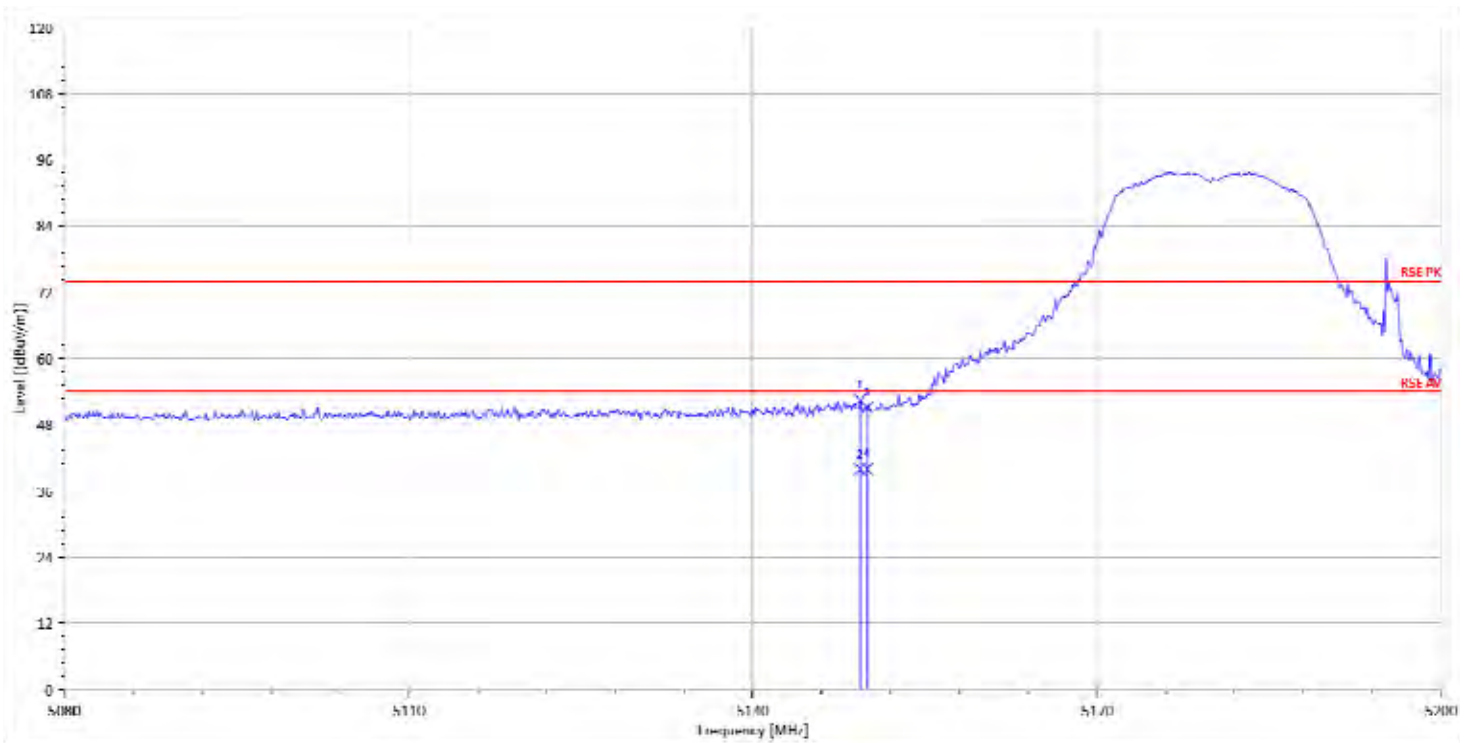
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5145.76	S	Peak	50.06	8.17	58.22	74	-15.78
5145.76	S	Average	32.74	8.17	40.91	54	-13.09
5150.00	E	Peak	46.48	8.19	54.67	74	-19.33
5150.00	E	Average	33.00	8.19	41.19	54	-12.81

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Operation Mode :	802.11n20B1	Test Date :	2017/12/14
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



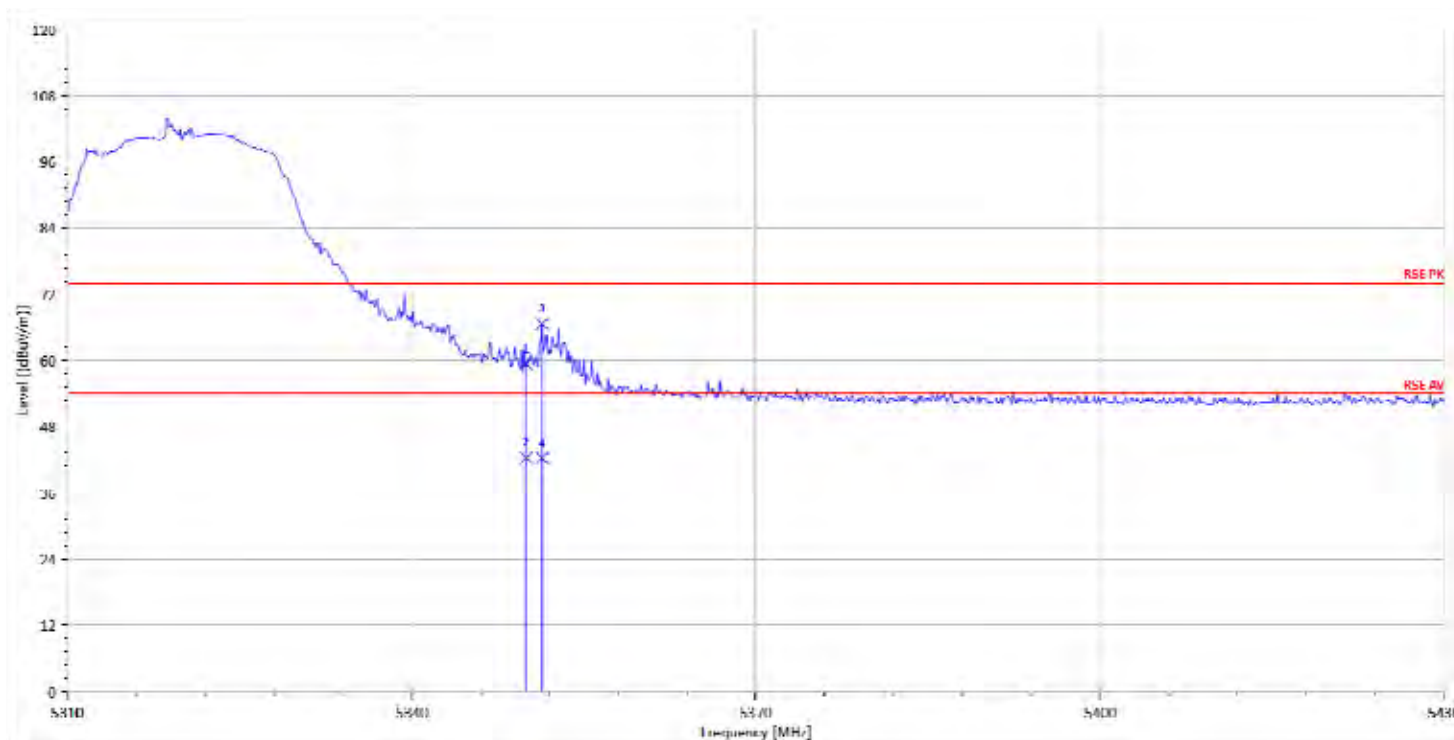
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5149.36	S	Peak	44.30	8.19	52.48	74	-21.52
5149.36	S	Average	31.77	8.19	39.96	54	-14.04
5150.00	E	Peak	42.86	8.19	51.05	74	-22.95
5150.00	E	Average	31.78	8.19	39.97	54	-14.03

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Operation Mode :	802.11n20B2	Test Date :	2017/12/14
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



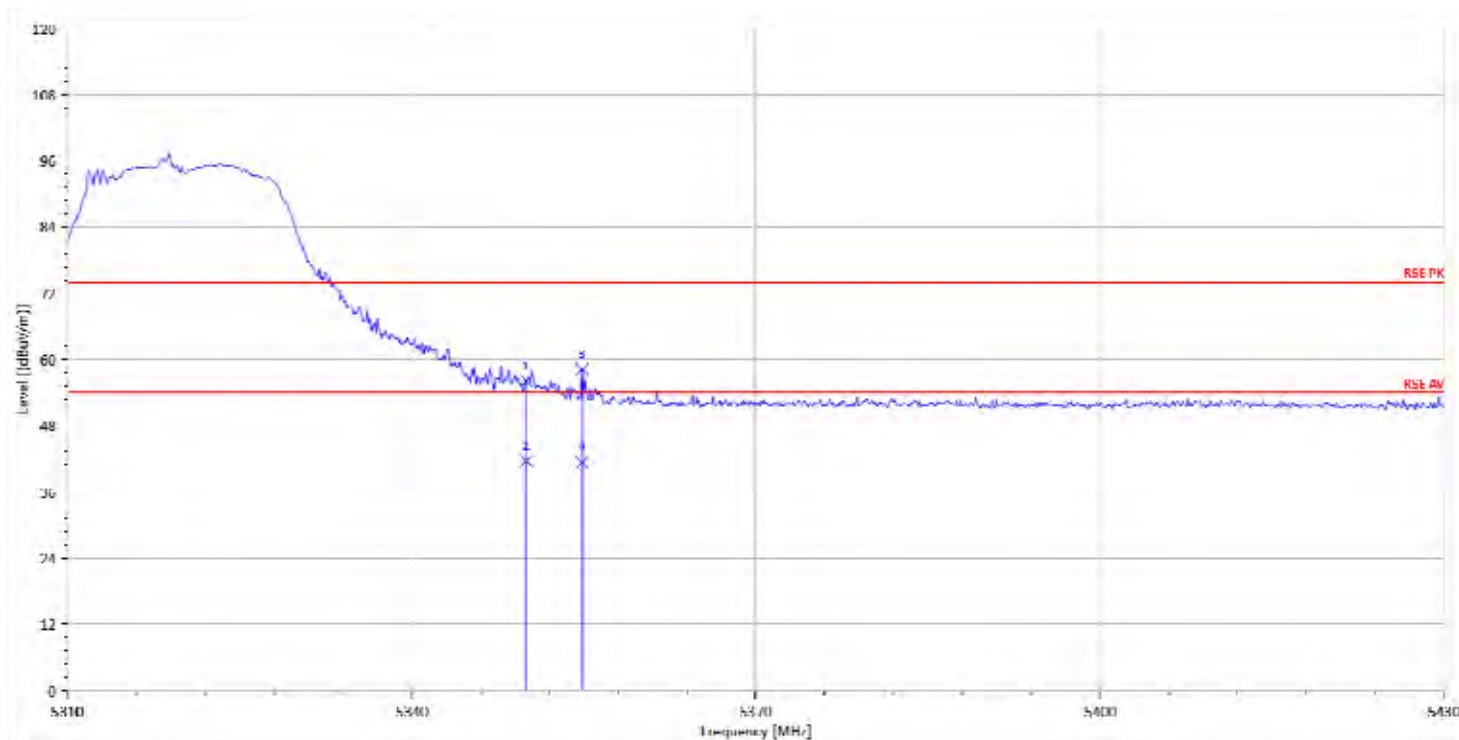
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	50.45	8.96	59.42	74	-14.58
5350.00	E	Average	33.40	8.96	42.36	54	-11.64
5351.40	S	Peak	57.63	8.99	66.62	74	-7.38
5351.40	S	Average	33.34	8.99	42.33	54	-11.67

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Operation Mode :	802.11n20B2	Test Date :	2017/12/14
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



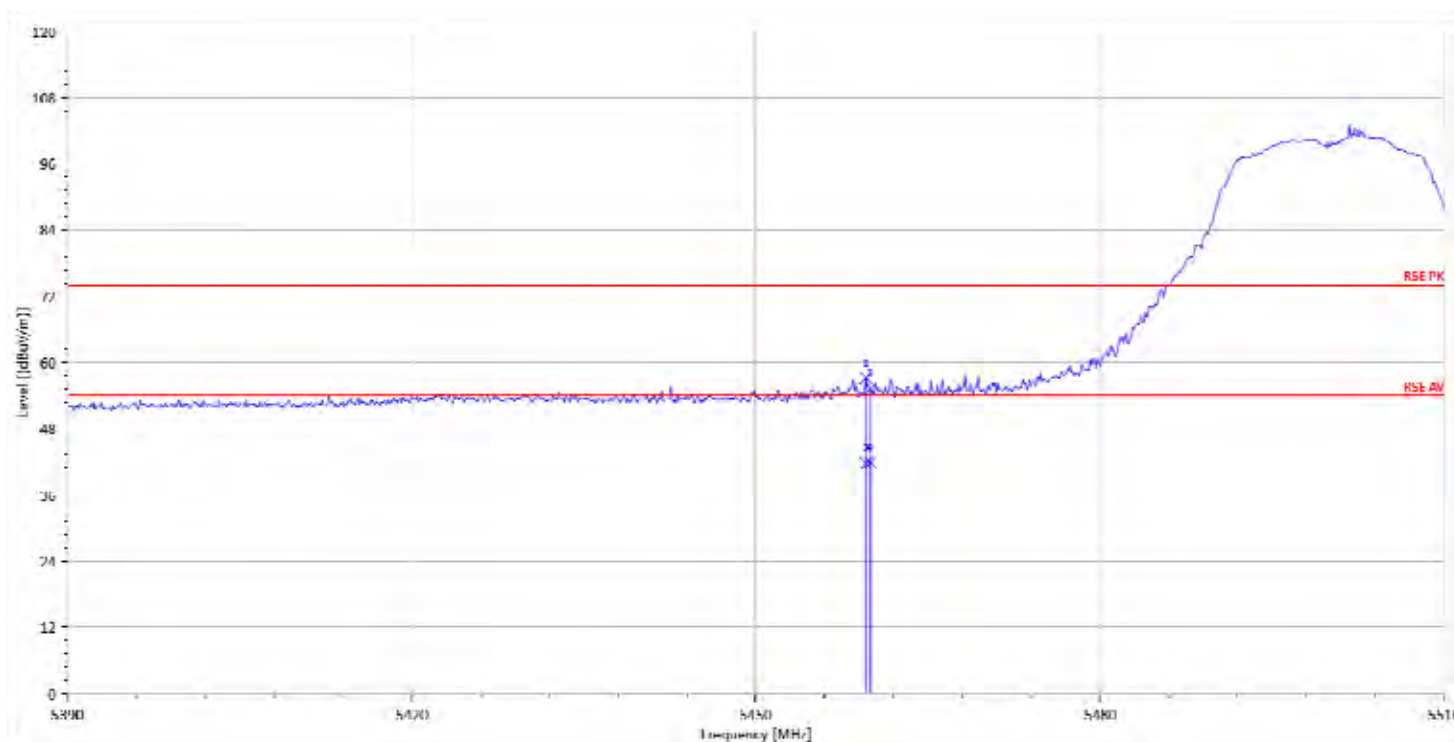
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	47.16	8.96	56.13	74	-17.87
5350.00	E	Average	32.65	8.96	41.61	54	-12.39
5354.88	S	Peak	49.29	8.97	58.26	74	-15.74
5354.88	S	Average	32.35	8.97	41.32	54	-12.68

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Operation Mode :	802.11n20B3	Test Date :	2017/12/14
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



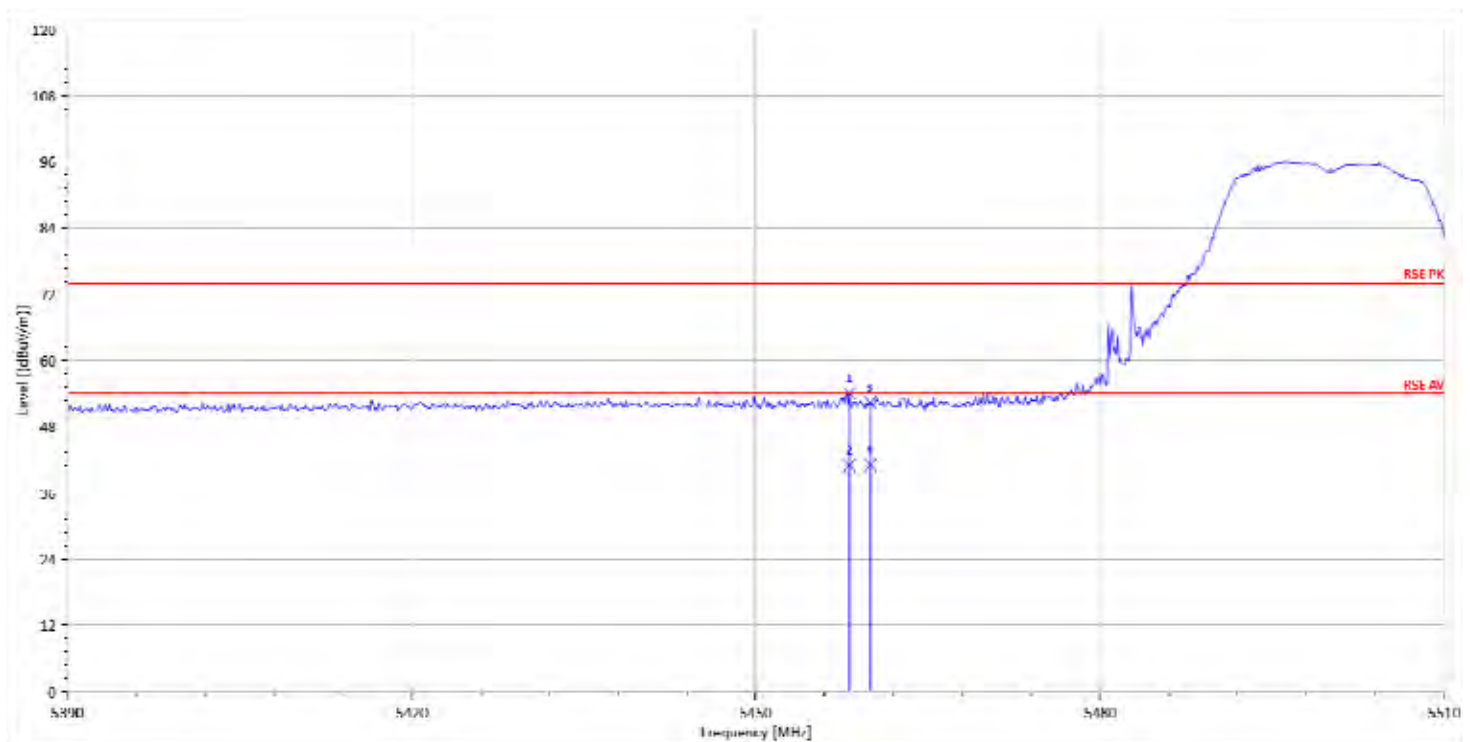
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5459.60	S	Peak	48.29	8.89	57.18	74	-16.82
5459.60	S	Average	32.82	8.89	41.71	54	-12.29
5460.00	E	Peak	46.37	8.88	55.25	74	-18.75
5460.00	E	Average	32.98	8.88	41.86	54	-12.14

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Operation Mode :	802.11n20B3	Test Date :	2017/12/14
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



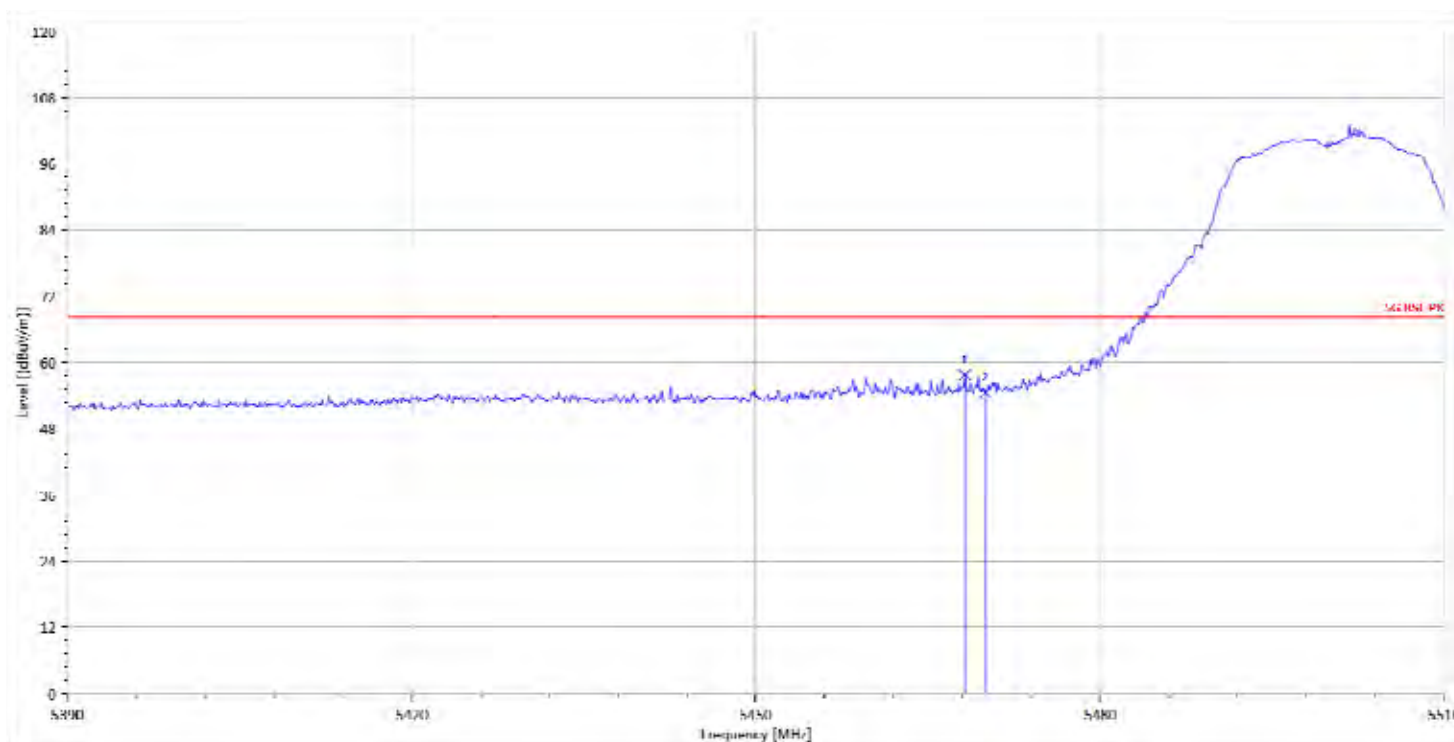
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5458.16	S	Peak	45.19	8.90	54.09	74	-19.91
5458.16	S	Average	32.07	8.90	40.97	54	-13.03
5460.00	E	Peak	43.49	8.88	52.37	74	-21.63
5460.00	E	Average	32.13	8.88	41.01	54	-12.99

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Operation Mode :	802.11n20B3	Test Date :	2017/12/14
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW RSE	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



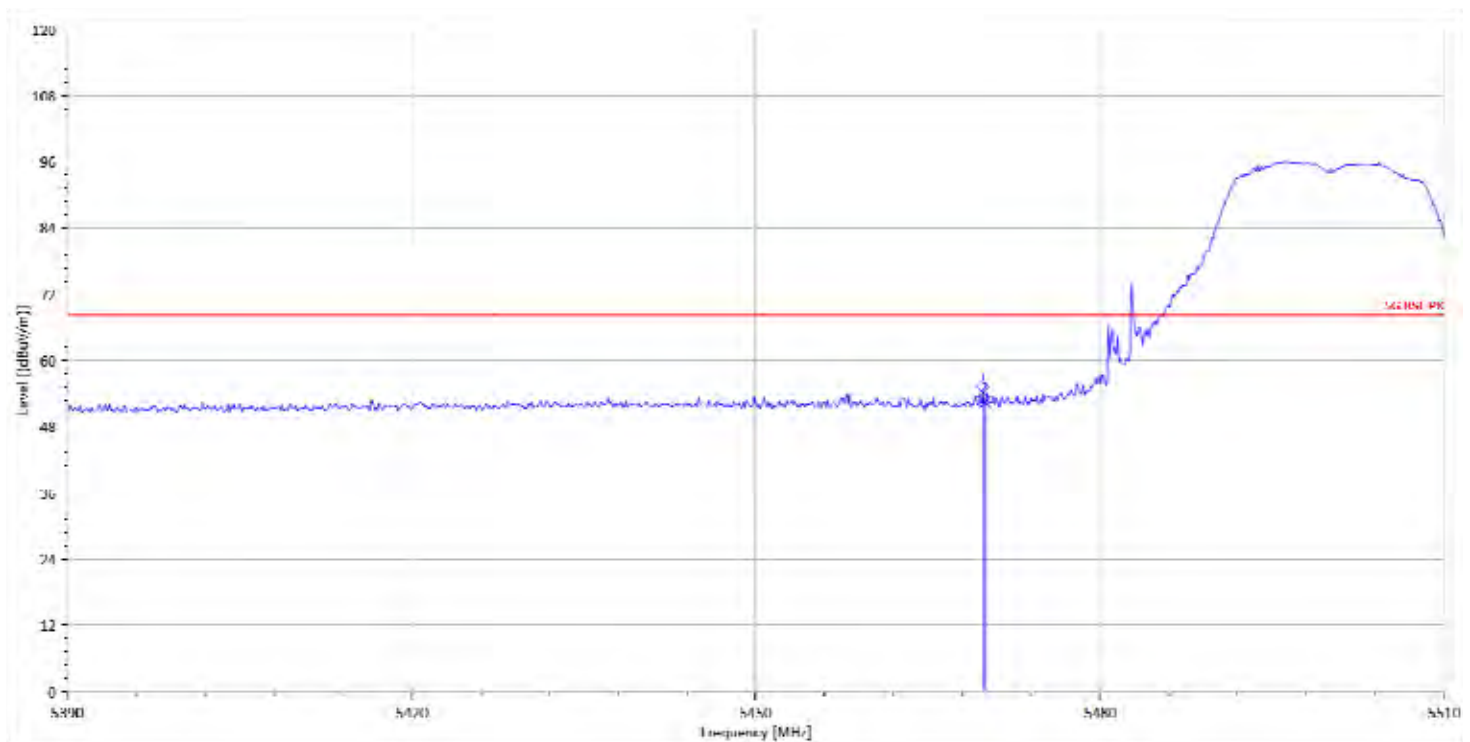
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5468.24	S	Peak	48.98	8.80	57.78	68.3	-10.52
5470.00	E	Peak	45.81	8.79	54.60	68.3	-13.70

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Operation Mode :	802.11n20B3	Test Date :	2017/12/14
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW RSE	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



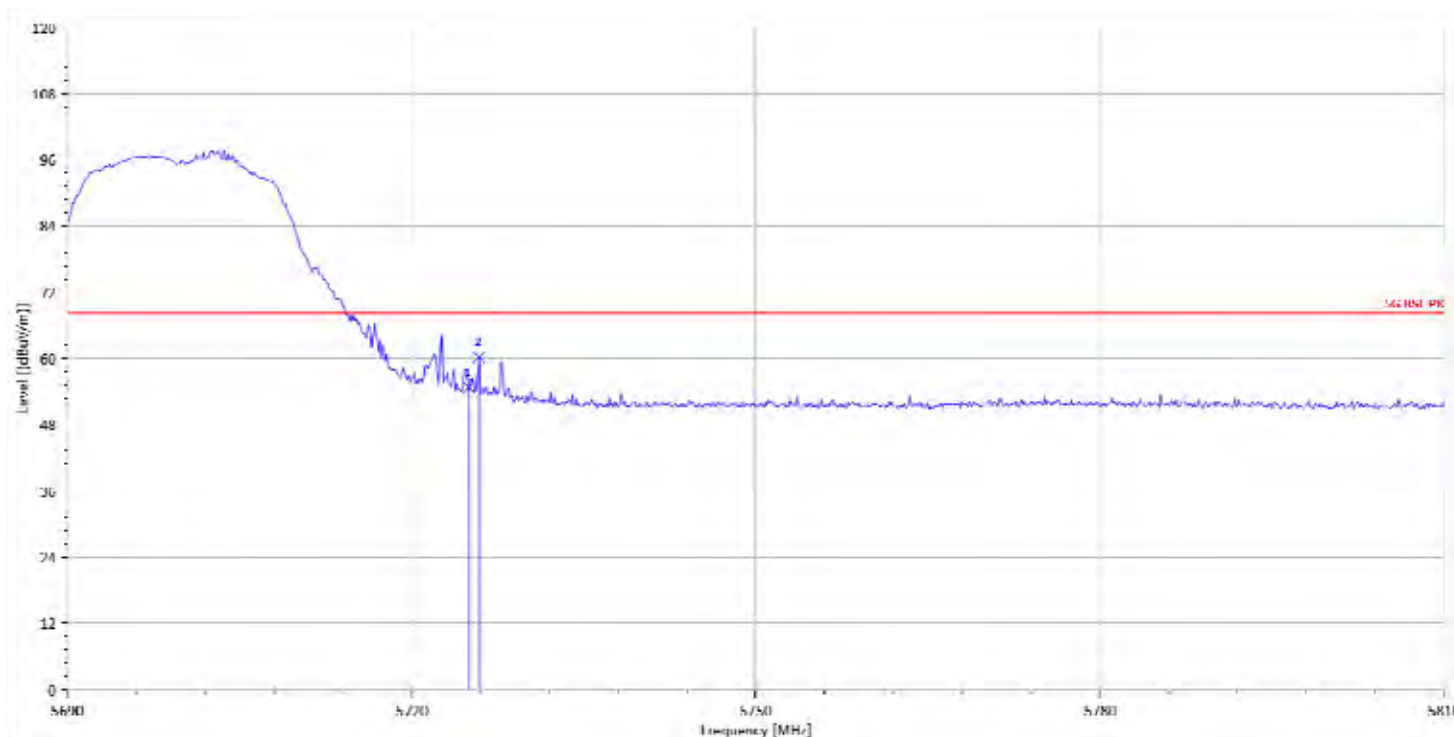
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5469.80	S	Peak	45.45	8.79	54.24	68.3	-14.06
5470.00	E	Peak	43.70	8.79	52.49	68.3	-15.81

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Operation Mode :	802.11n20B3	Test Date :	2017/12/14
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



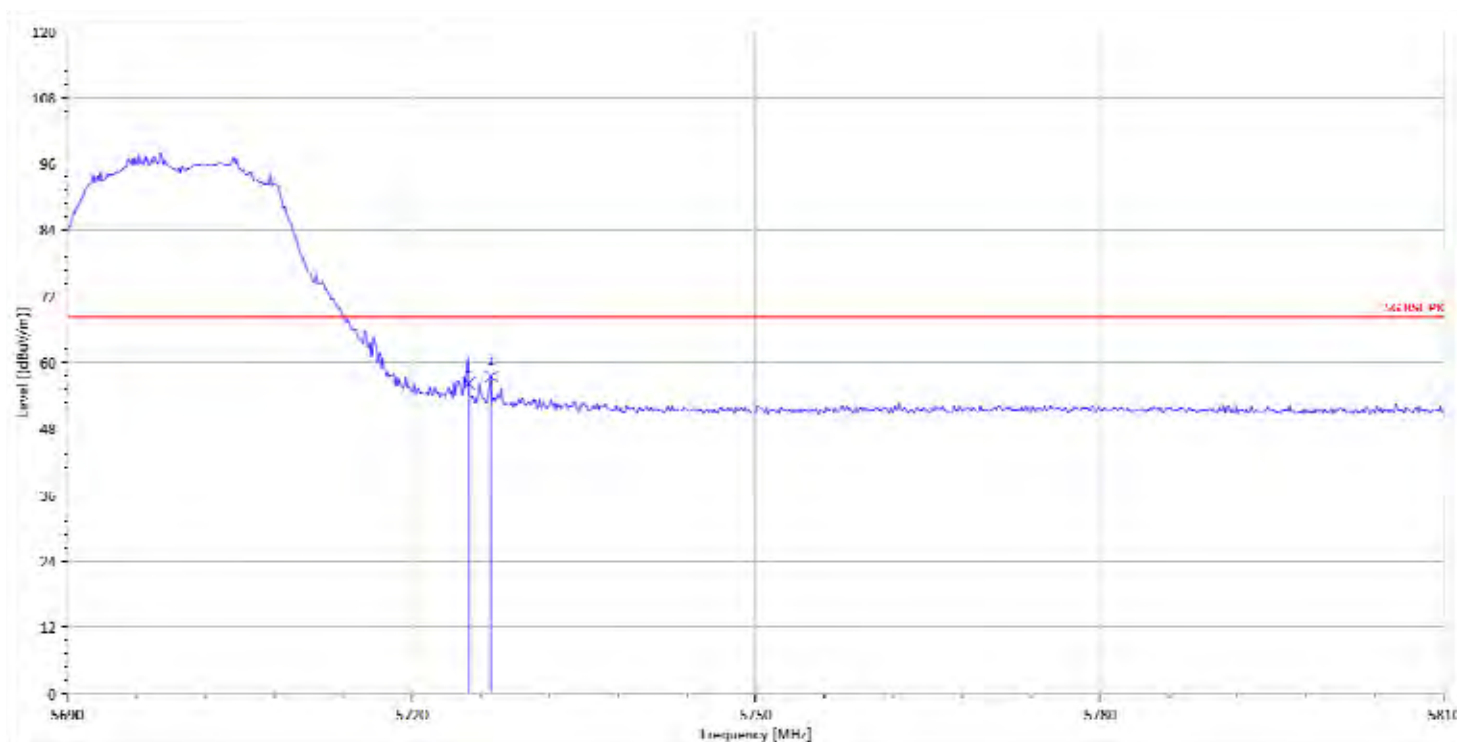
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	E	Peak	45.50	9.30	54.80	68.3	-13.50
5725.88	S	Peak	50.92	9.30	60.22	68.3	-8.08

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Operation Mode :	802.11n20B3	Test Date :	2017/12/14
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



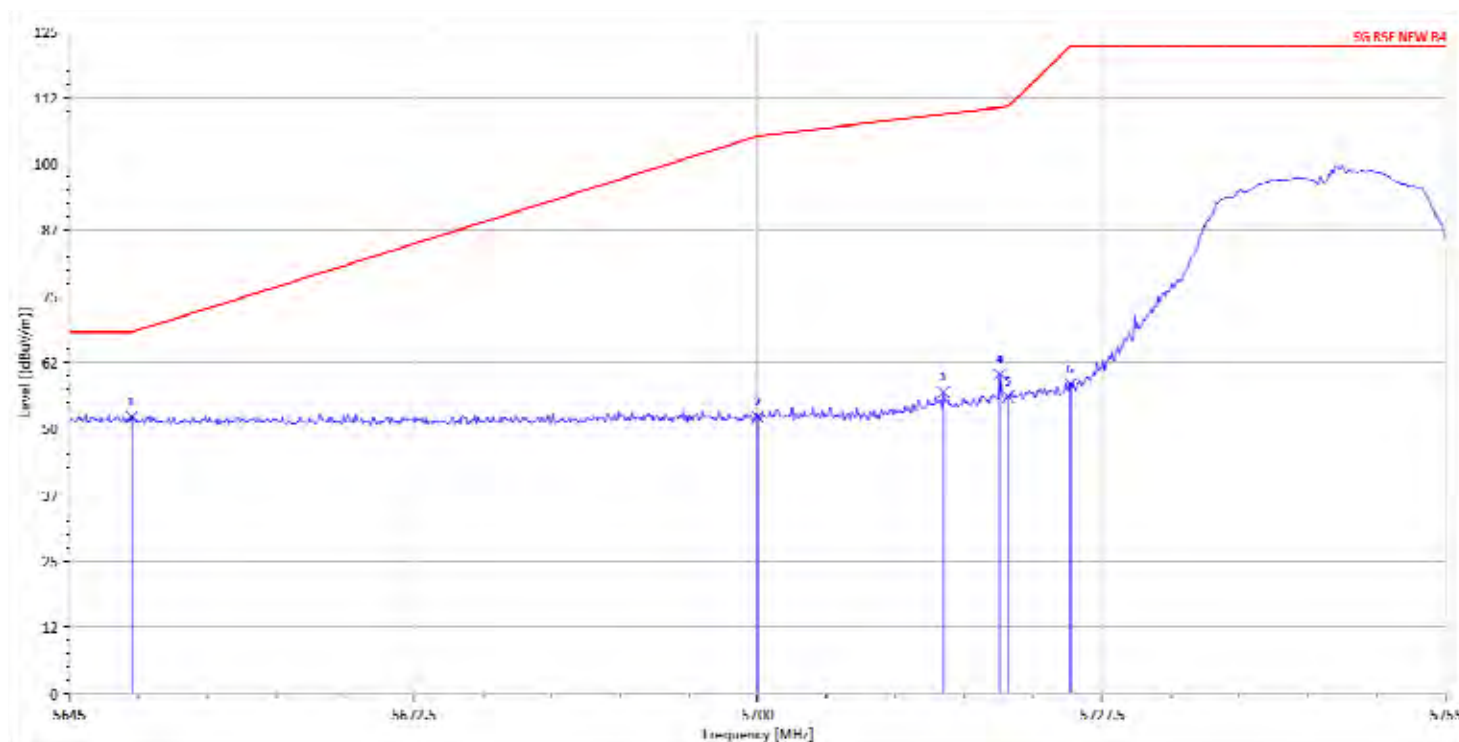
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	E	Peak	46.93	9.30	56.23	68.3	-12.07
5726.96	S	Peak	48.13	9.30	57.43	68.3	-10.87

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Operation Mode :	802.11n20B4	Test Date :	2017/12/14
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



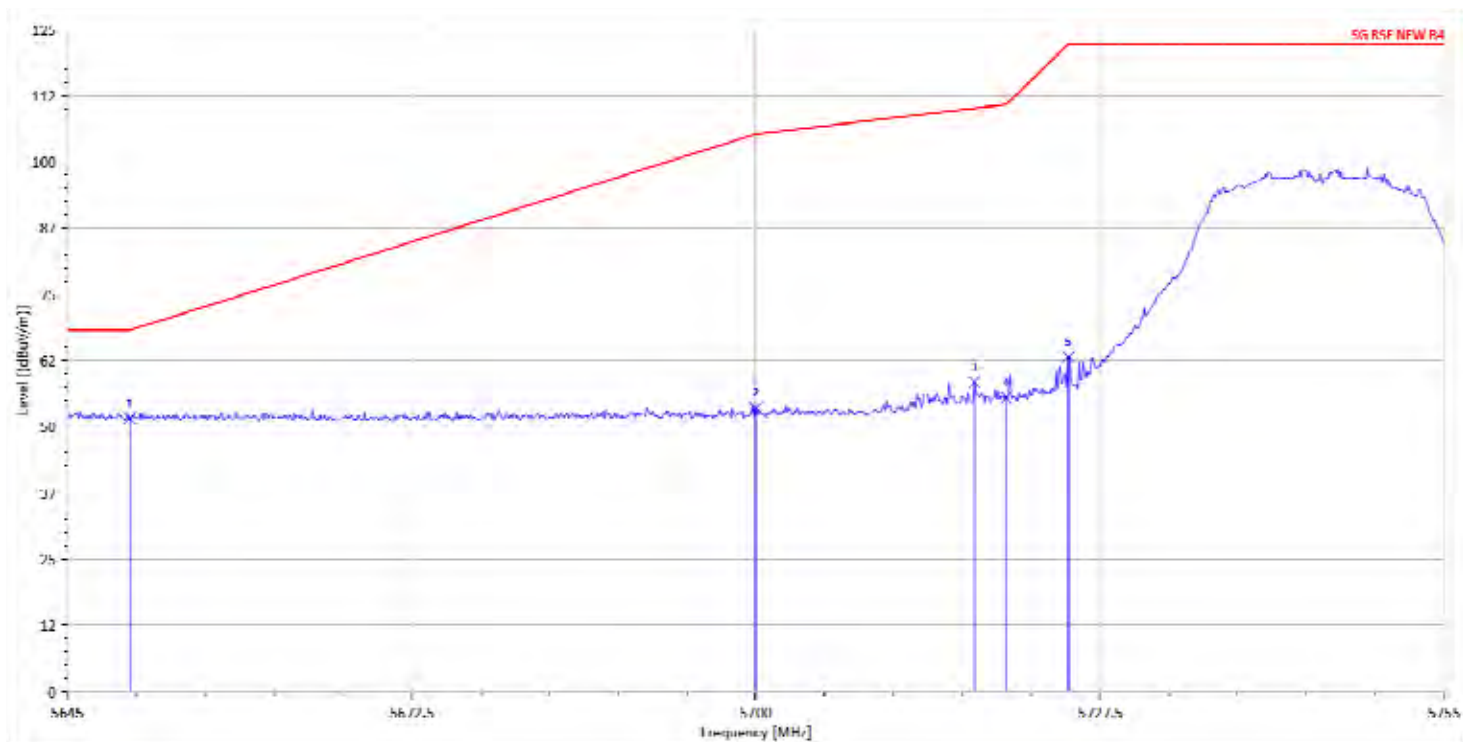
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	42.88	9.33	52.21	68.23	-16.02
5700.00	S	Peak	42.78	9.44	52.22	105.23	-53.01
5714.85	S	Peak	47.63	9.26	56.89	109.388	-52.50
5719.36	S	Peak	51.05	9.28	60.33	110.6508	-50.33
5720.00	S	Peak	46.78	9.28	56.06	110.83	-54.77
5725.00	E	Peak	49.15	9.30	58.45	122.23	-63.78

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Operation Mode : 802.11n20B4 Test Date : 2017/12/14
Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH LOW Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



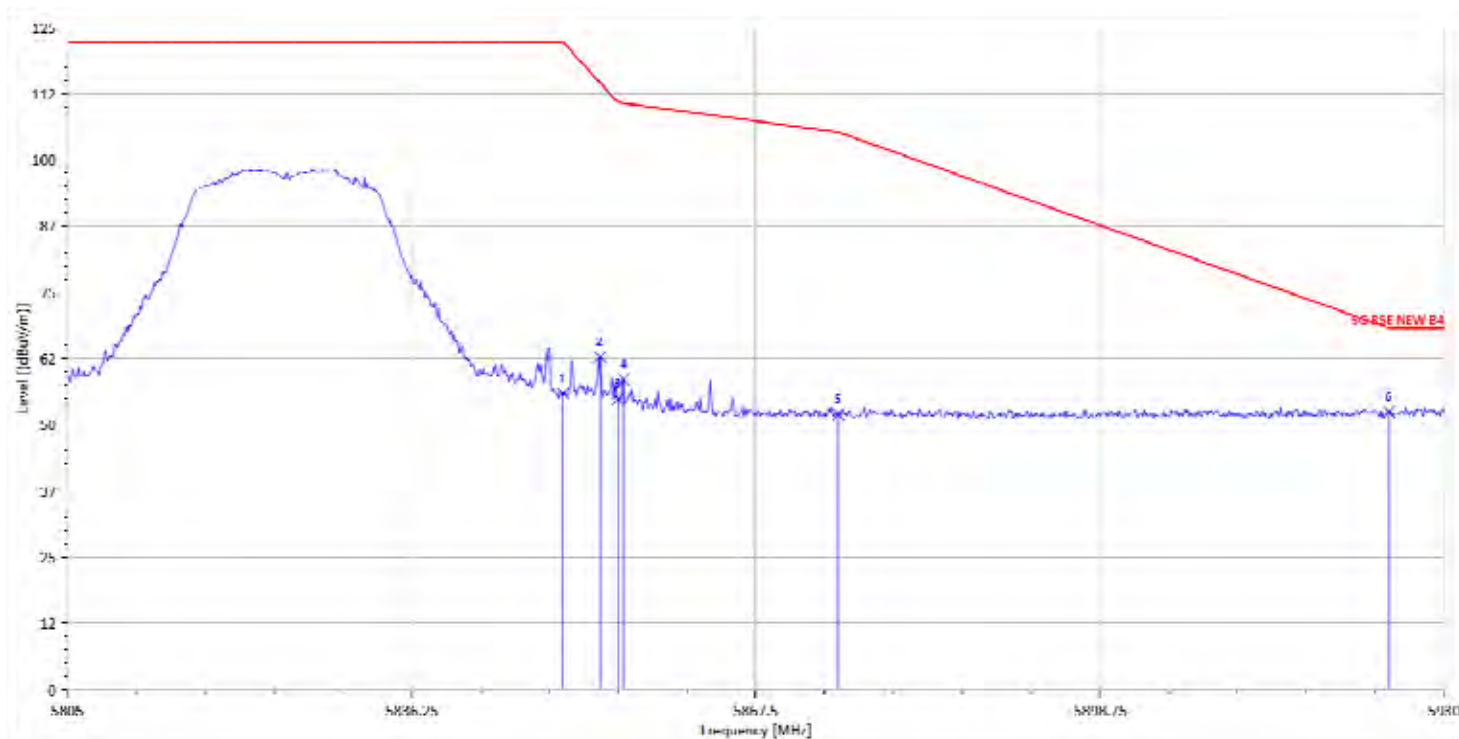
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	42.25	9.33	51.59	68.23	-16.64
5700.00	S	Peak	44.13	9.44	53.57	105.23	-51.66
5717.49	S	Peak	49.16	9.27	58.44	110.1273	-51.69
5720.00	S	Peak	46.25	9.28	55.53	110.83	-55.30
5725.00	E	Peak	53.94	9.30	63.24	122.23	-58.99

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Operation Mode :	802.11n20B4	Test Date :	2017/12/14
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	46.43	9.49	55.92	122.23	-66.31
5853.38	S	Peak	53.25	9.55	62.80	114.535	-51.74
5855.00	S	Peak	45.27	9.58	54.85	110.83	-55.98
5855.50	S	Peak	48.96	9.59	58.55	110.69	-52.14
5875.00	S	Peak	42.35	9.63	51.98	105.23	-53.25
5925.00	S	Peak	42.38	10.01	52.40	68.23	-15.83

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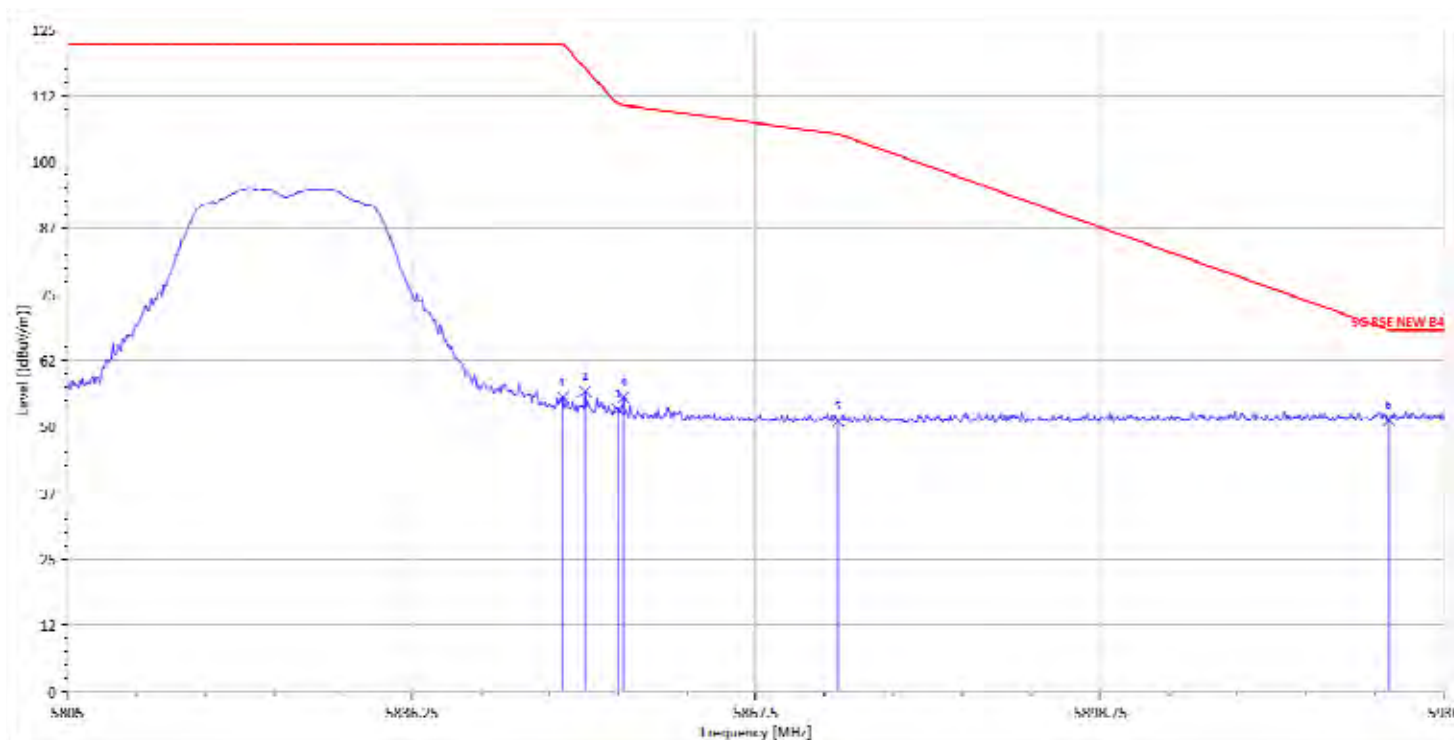
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Operation Mode :	802.11n20B4	Test Date :	2017/12/14
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	46.07	9.49	55.55	122.23	-66.68
5852.00	S	Peak	47.15	9.53	56.67	117.67	-61.00
5855.00	S	Peak	43.68	9.58	53.26	110.83	-57.57
5855.50	S	Peak	45.99	9.59	55.58	110.69	-55.11
5875.00	S	Peak	41.48	9.63	51.12	105.23	-54.11
5925.00	S	Peak	41.32	10.01	51.33	68.23	-16.90

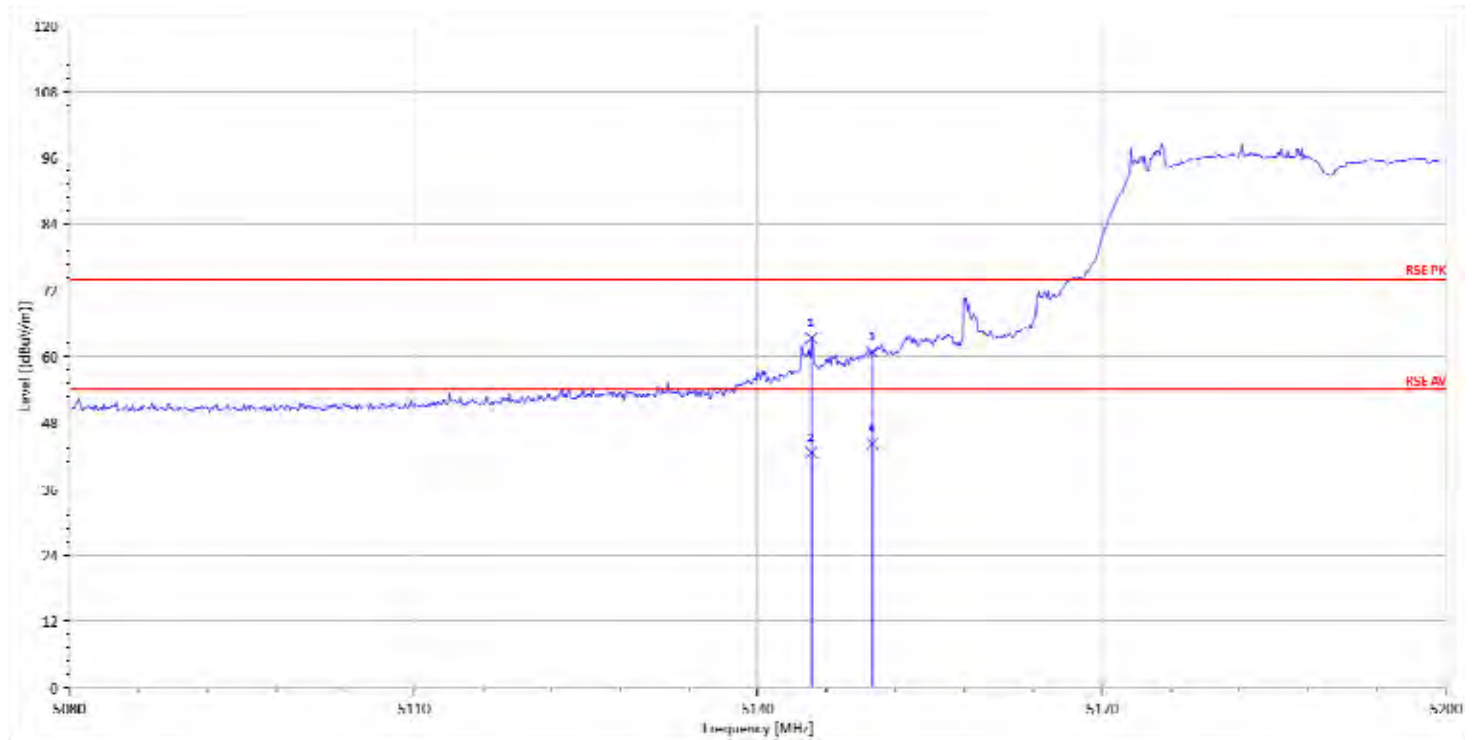
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802.11n40 HT mode

Operation Mode :	802.11n40B1	Test Date :	2017/12/14
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



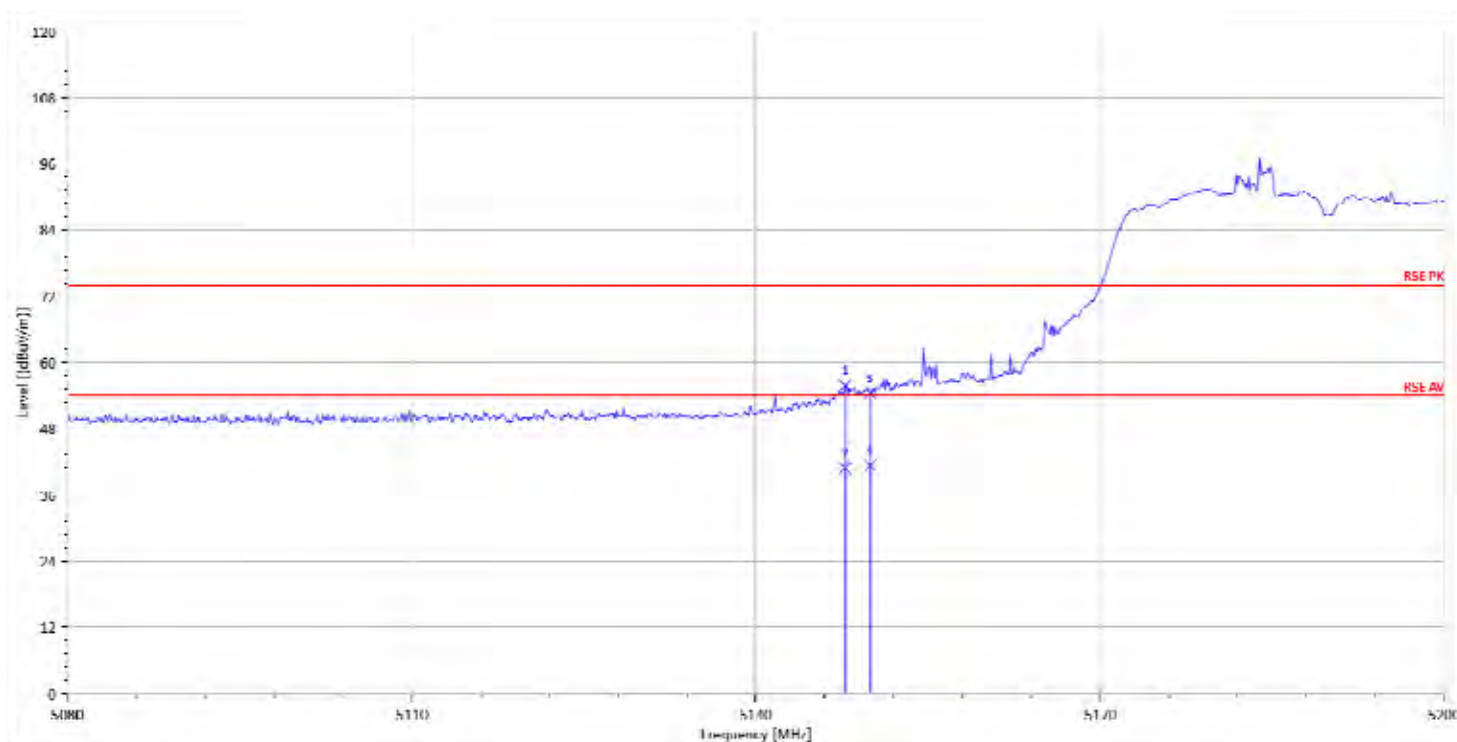
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5144.68	S	Peak	55.17	8.16	63.33	74	-10.67
5144.68	S	Average	34.42	8.16	42.58	54	-11.42
5150.00	E	Peak	52.63	8.19	60.82	74	-13.18
5150.00	E	Average	36.04	8.19	44.23	54	-9.77

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Operation Mode :	802.11n40B1	Test Date :	2017/12/14
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



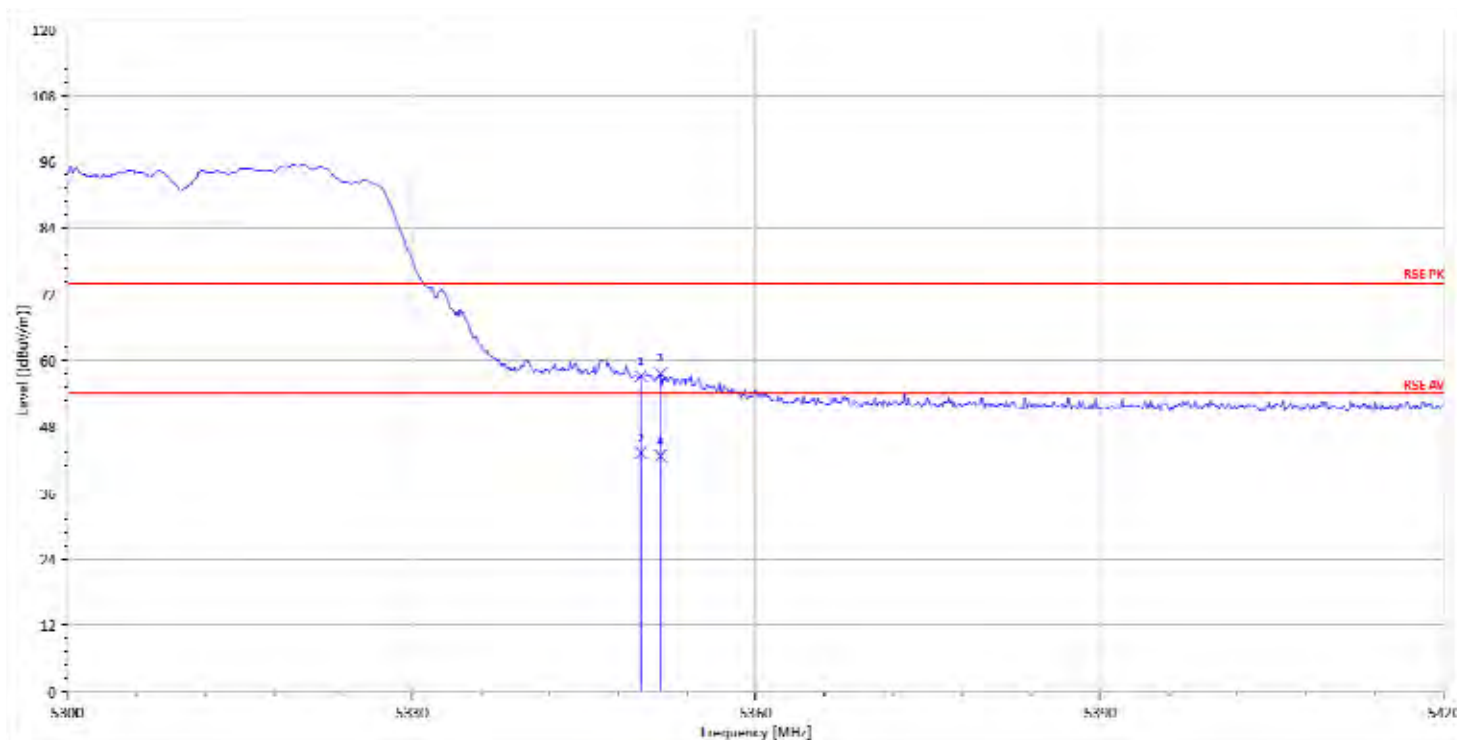
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5147.80	S	Peak	47.62	8.18	55.80	74	-18.20
5147.80	S	Average	32.67	8.18	40.85	54	-13.15
5150.00	E	Peak	46.28	8.19	54.47	74	-19.53
5150.00	E	Average	33.12	8.19	41.31	54	-12.69

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Operation Mode :	802.11n40B2	Test Date :	2017/12/14
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



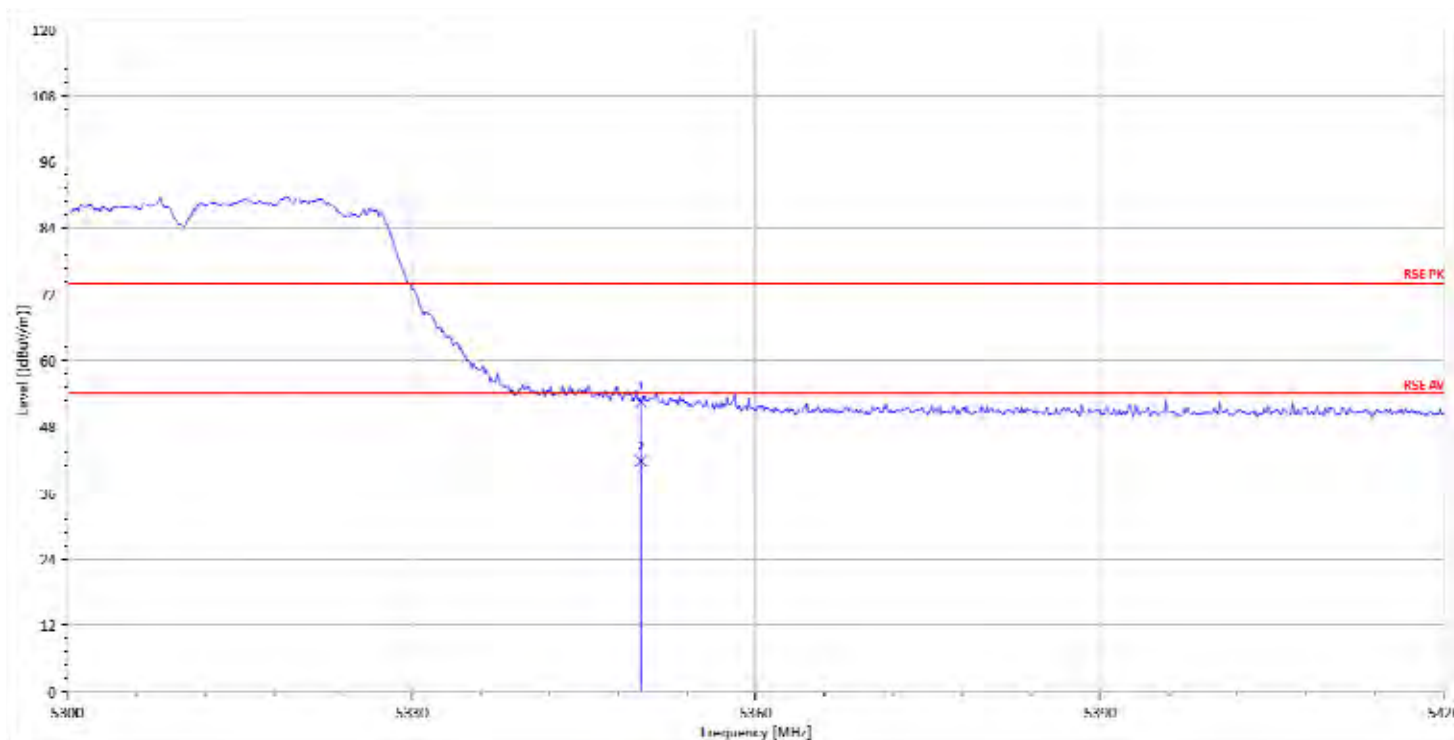
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	48.19	8.96	57.15	74	-16.85
5350.00	E	Average	34.31	8.96	43.27	54	-10.73
5351.72	S	Peak	48.66	8.99	57.65	74	-16.35
5351.72	S	Average	33.71	8.99	42.70	54	-11.30

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Operation Mode :	802.11n40B2	Test Date :	2017/12/14
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



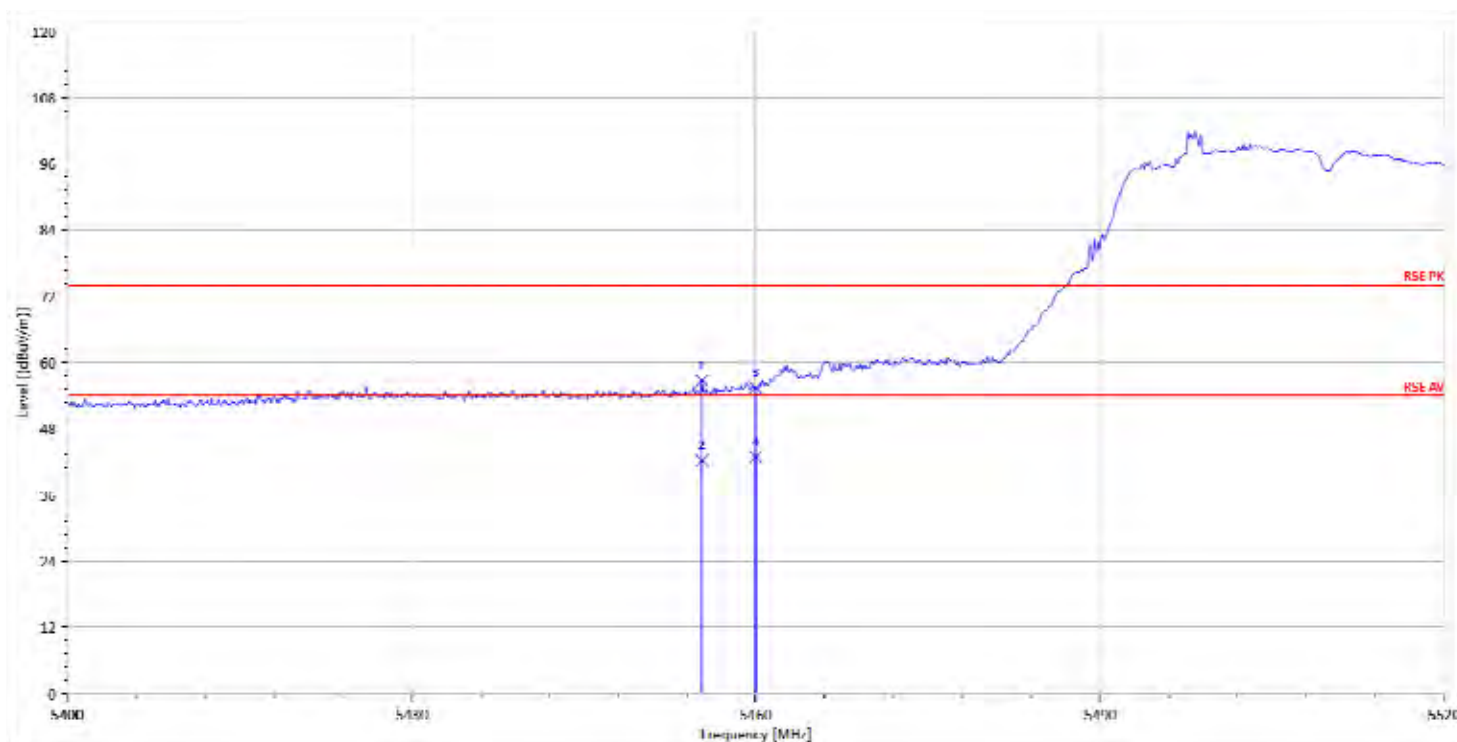
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	43.62	8.96	52.58	74	-21.42
5350.00	E	Average	32.83	8.96	41.79	54	-12.21

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Operation Mode :	802.11n40B3	Test Date :	2017/12/14
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



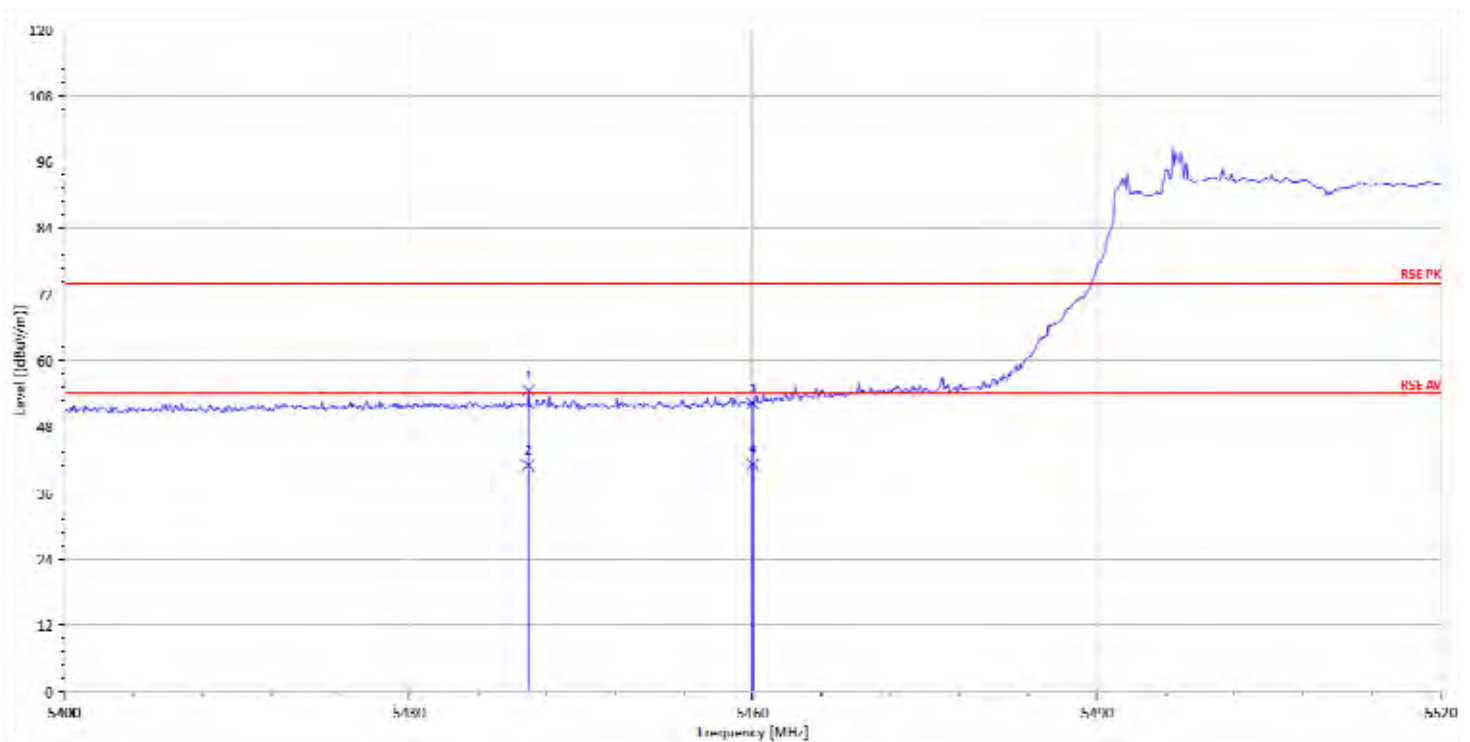
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5455.32	S	Peak	47.80	8.93	56.73	74	-17.27
5455.32	S	Average	33.30	8.93	42.23	54	-11.77
5460.00	E	Peak	46.54	8.88	55.42	74	-18.58
5460.00	E	Average	34.00	8.88	42.88	54	-11.12

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Operation Mode :	802.11n40B3	Test Date :	2017/12/14
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



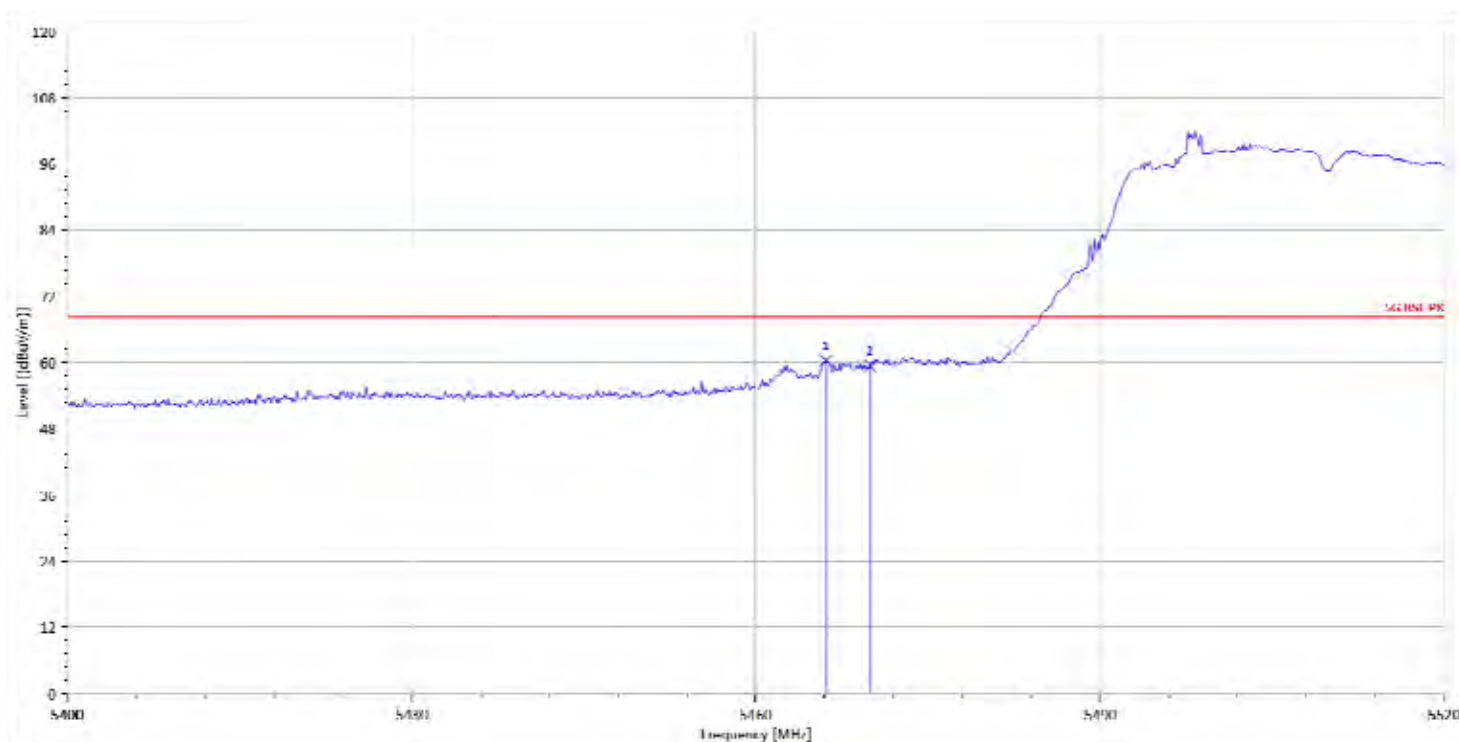
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5440.44	S	Peak	45.44	9.13	54.56	74	-19.44
5440.44	S	Average	31.85	9.13	40.98	54	-13.02
5460.00	E	Peak	43.34	8.88	52.23	74	-21.77
5460.00	E	Average	32.23	8.88	41.11	54	-12.89

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Operation Mode :	802.11n40B3	Test Date :	2017/12/14
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW RSE	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



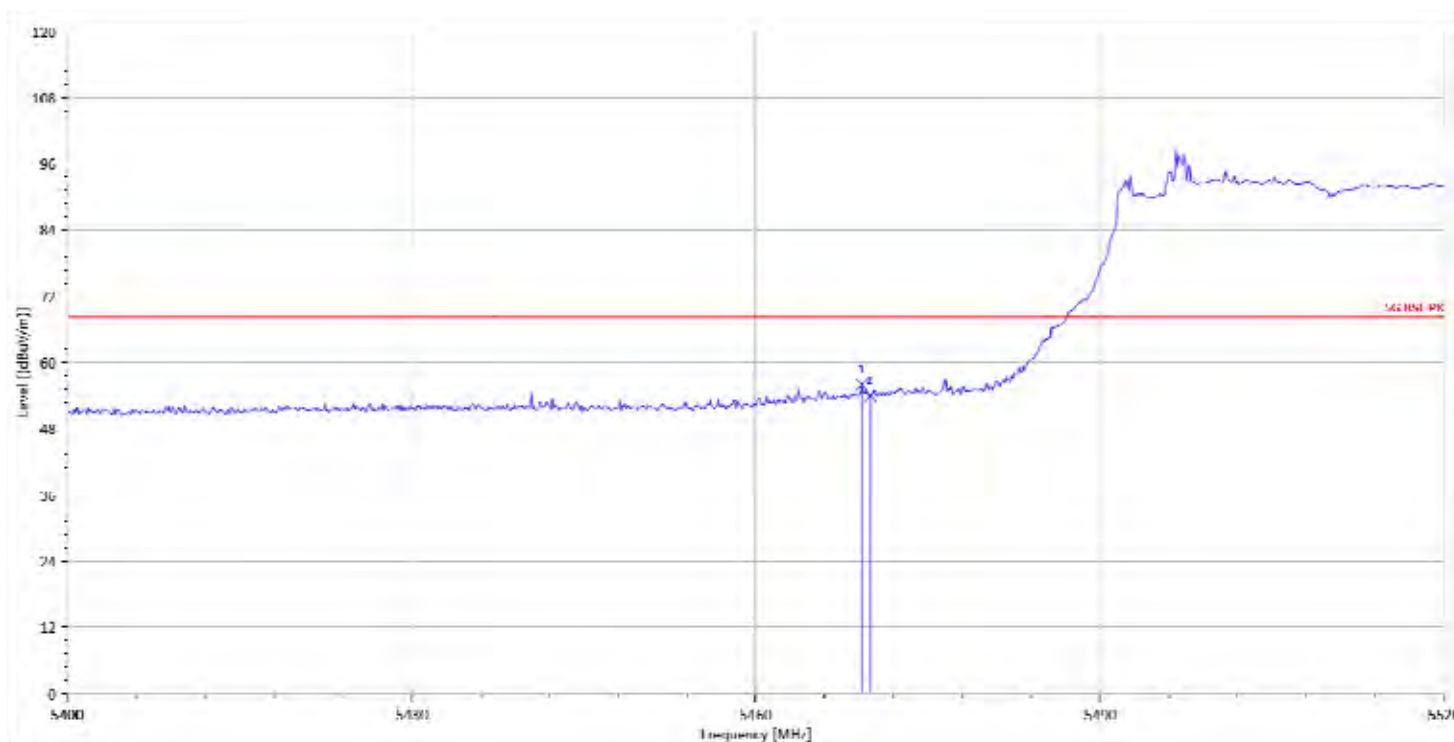
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5466.12	S	Peak	51.52	8.83	60.34	68.3	-7.96
5470.00	E	Peak	50.62	8.79	59.41	68.3	-8.89

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Operation Mode :	802.11n40B3	Test Date :	2017/12/14
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW RSE	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



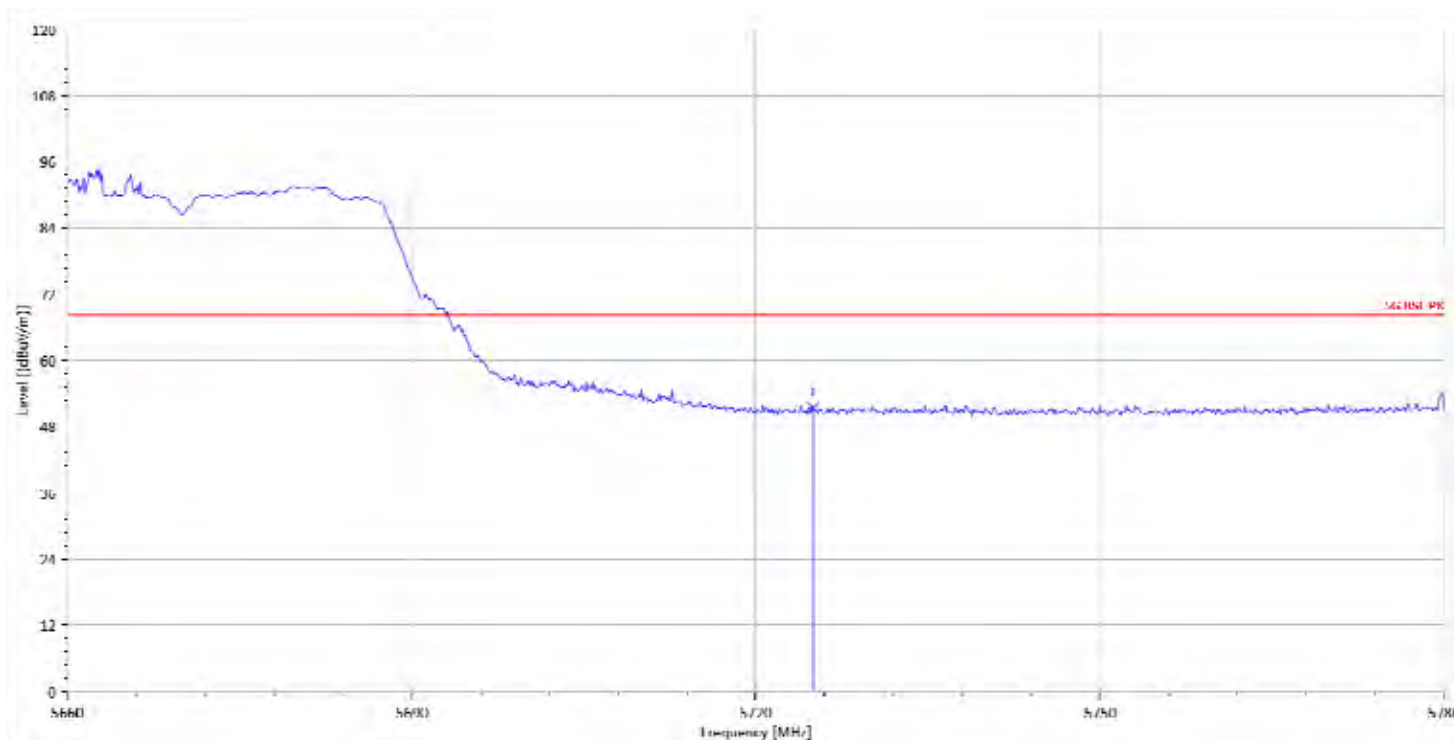
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5469.24	S	Peak	47.22	8.80	56.01	68.3	-12.29
5470.00	E	Peak	45.16	8.79	53.95	68.3	-14.35

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Operation Mode :	802.11n40B3	Test Date :	2017/12/14
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



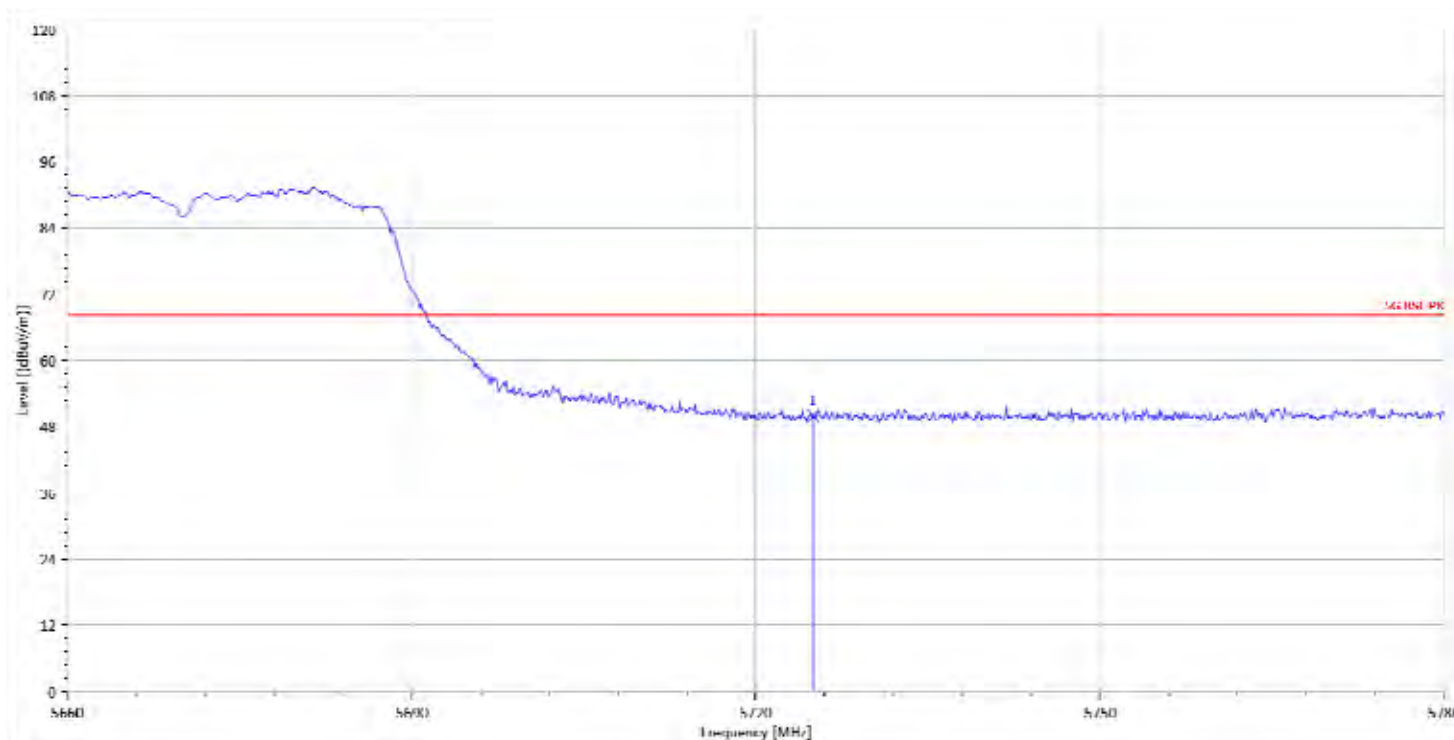
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	E	Peak	42.07	9.30	51.37	68.3	-16.93

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Operation Mode :	802.11n40B3	Test Date :	2017/12/14
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



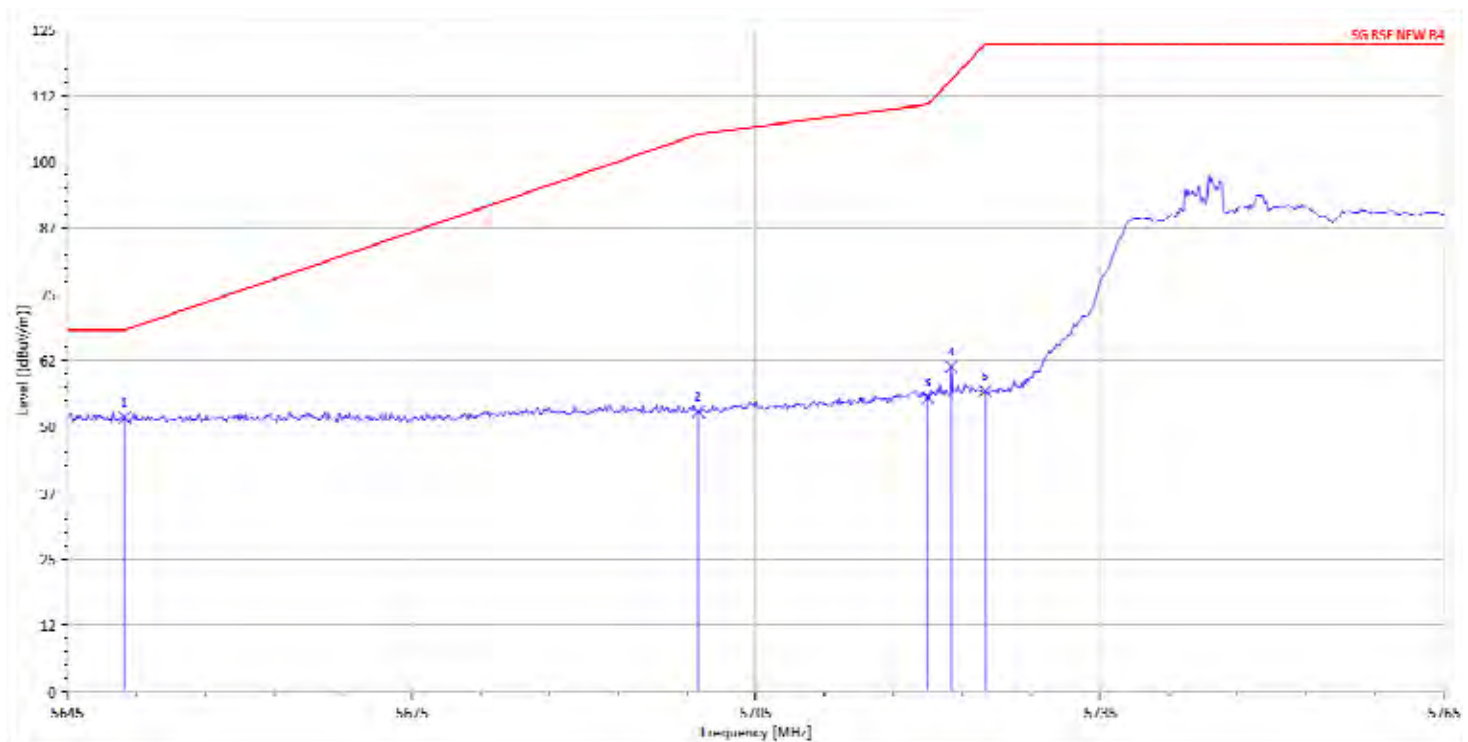
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	E	Peak	40.65	9.30	49.95	68.3	-18.35

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Operation Mode : 802.11n40B4 Test Date : 2017/12/14
Fundamental Frequency : 5755 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH LOW Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



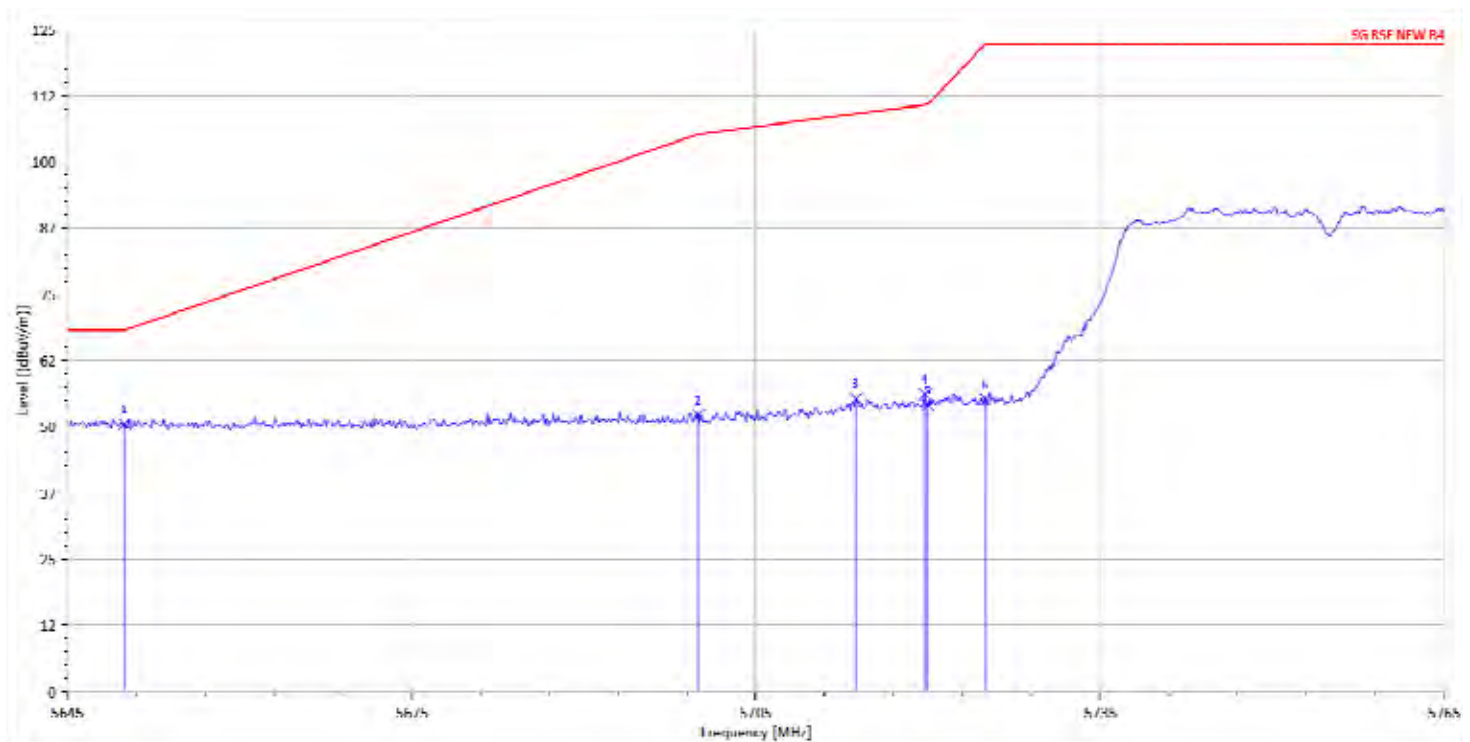
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	42.38	9.33	51.71	68.23	-16.52
5700.00	S	Peak	43.38	9.44	52.82	105.23	-52.41
5720.00	S	Peak	46.17	9.28	55.45	110.83	-55.38
5722.04	S	Peak	52.03	9.29	61.32	115.4813	-54.16
5725.00	E	Peak	47.45	9.30	56.75	122.23	-65.48

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Operation Mode :	802.11n40B4	Test Date :	2017/12/14
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	41.23	9.33	50.56	68.23	-17.67
5700.00	S	Peak	42.70	9.44	52.13	105.23	-53.10
5713.76	S	Peak	45.99	9.26	55.24	109.0827	-53.84
5719.76	S	Peak	46.87	9.28	56.15	110.7627	-54.61
5720.00	S	Peak	44.78	9.28	54.06	110.83	-56.77
5725.00	E	Peak	45.87	9.30	55.17	122.23	-67.06

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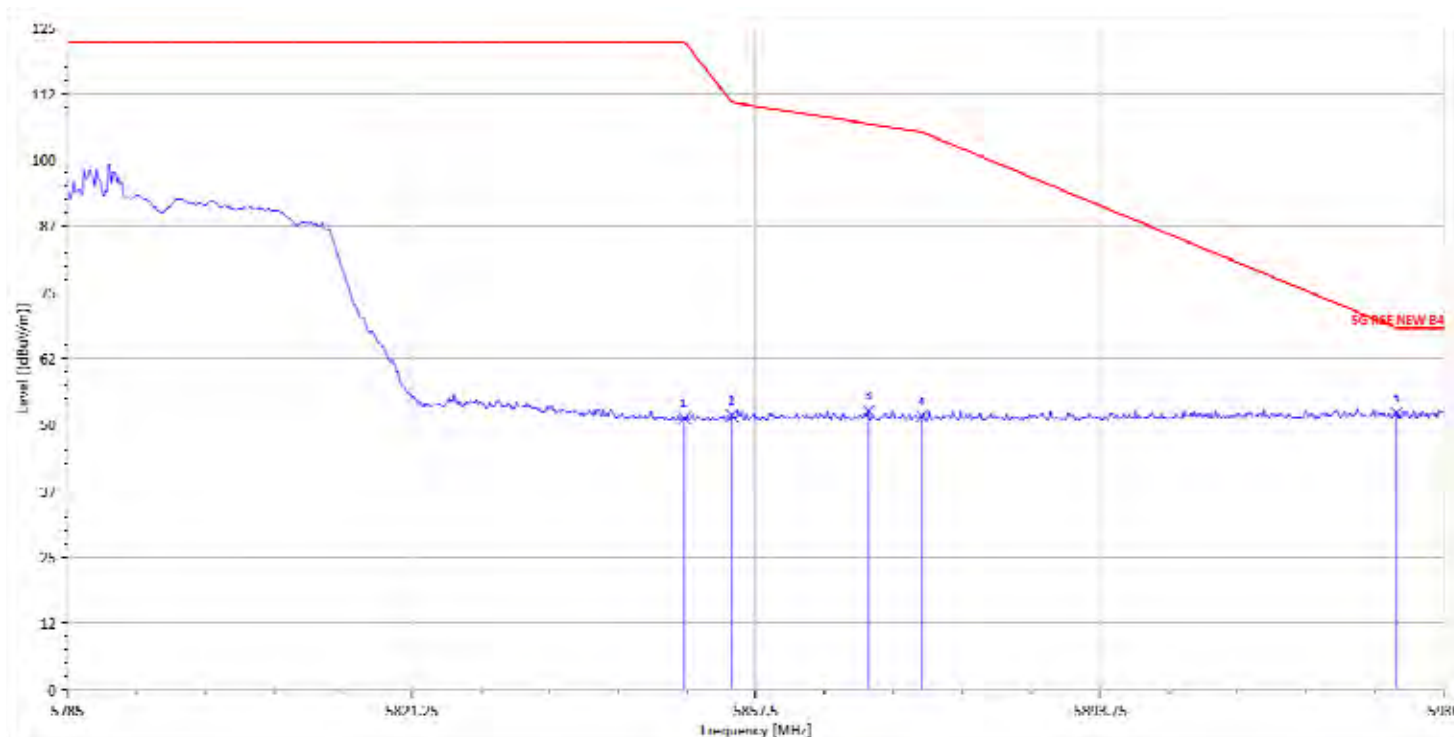
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Operation Mode :	802.11n40B4	Test Date :	2017/12/14
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



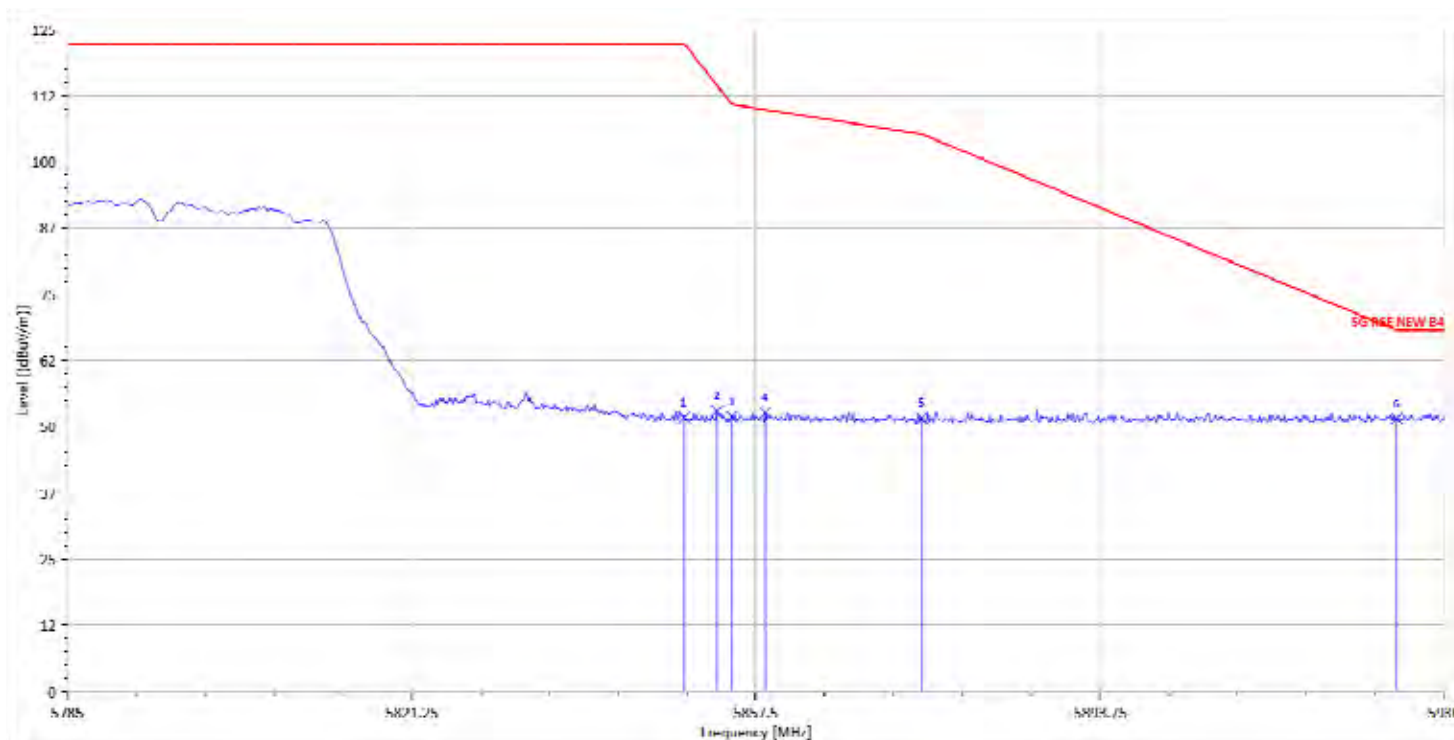
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	41.74	9.49	51.23	122.23	-71.00
5855.00	S	Peak	42.13	9.58	51.71	110.83	-59.12
5869.39	S	Peak	42.91	9.67	52.58	106.8008	-54.22
5875.00	S	Peak	41.94	9.63	51.57	105.23	-53.66
5925.00	S	Peak	42.20	10.01	52.22	68.23	-16.01

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Operation Mode :	802.11n40B4	Test Date :	2017/12/14
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	42.28	9.49	51.77	122.23	-70.46
5853.44	S	Peak	43.38	9.55	52.94	114.3869	-61.45
5855.00	S	Peak	42.31	9.58	51.89	110.83	-58.94
5858.52	S	Peak	42.99	9.65	52.63	109.8458	-57.21
5875.00	S	Peak	41.97	9.63	51.60	105.23	-53.63
5925.00	S	Peak	41.54	10.01	51.55	68.23	-16.68

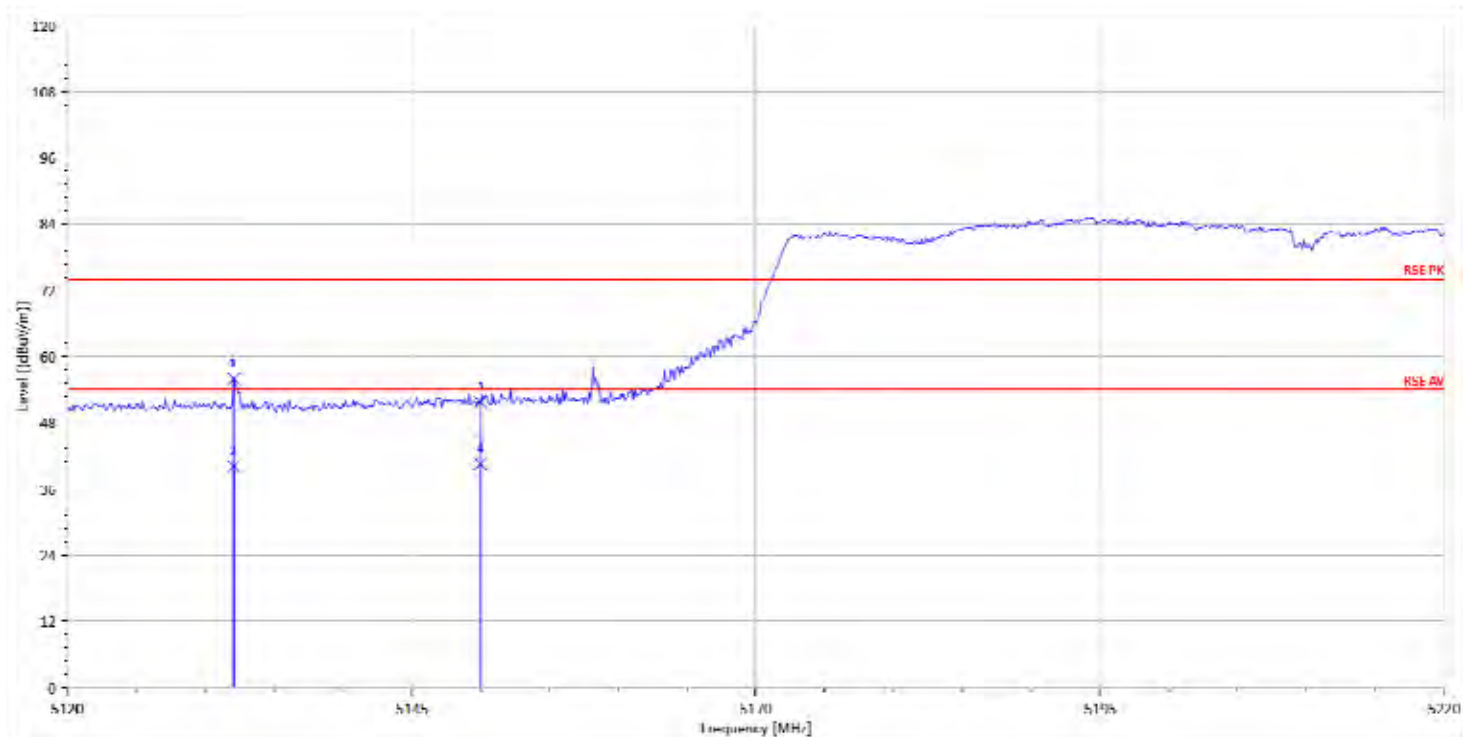
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802.11ac80 VHT mode

Operation Mode :	802.11ac80B1	Test Date :	2017/12/14
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



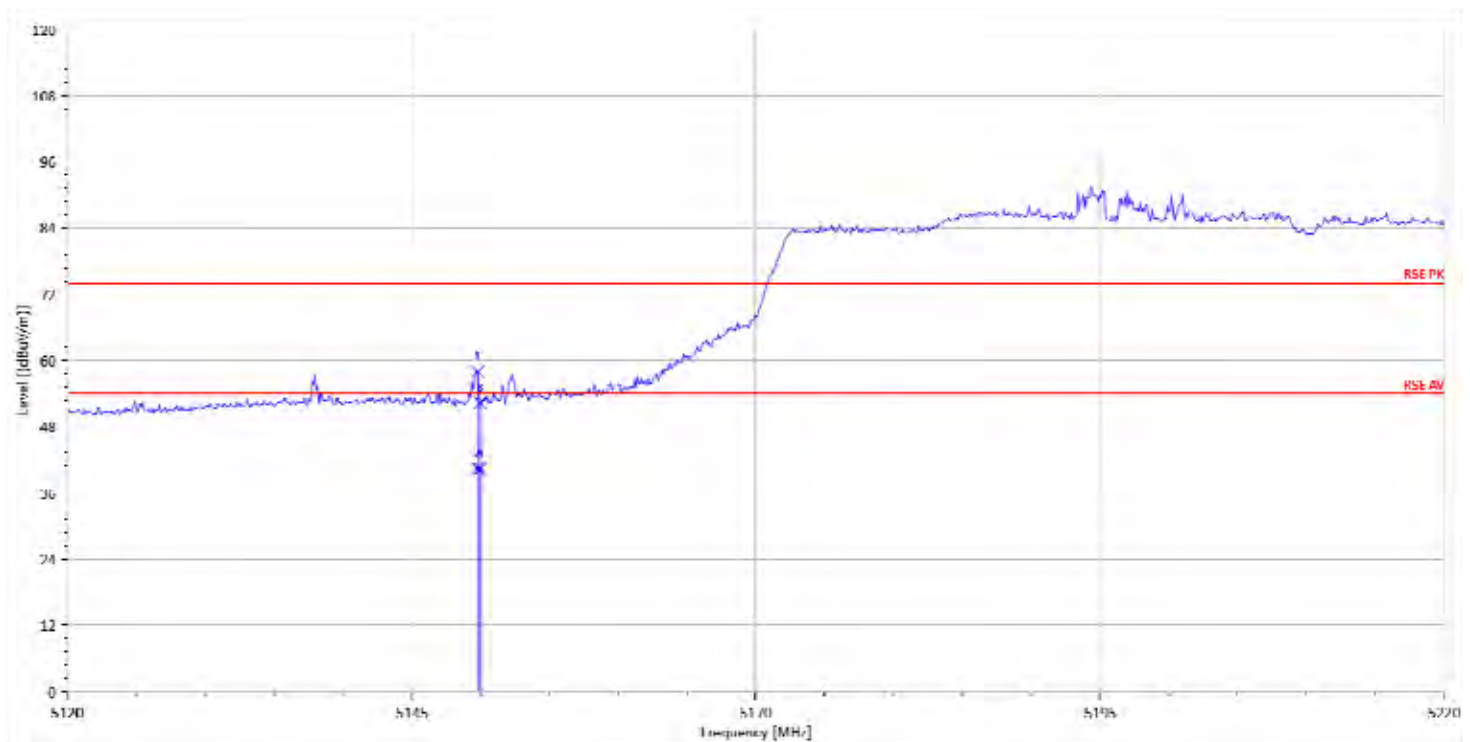
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5132.10	S	Peak	47.89	8.08	55.97	74	-18.03
5132.10	S	Average	32.00	8.08	40.08	54	-13.92
5150.00	E	Peak	43.61	8.19	51.80	74	-22.20
5150.00	E	Average	32.33	8.19	40.52	54	-13.48

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Operation Mode :	802.11ac80B1	Test Date :	2017/12/14
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



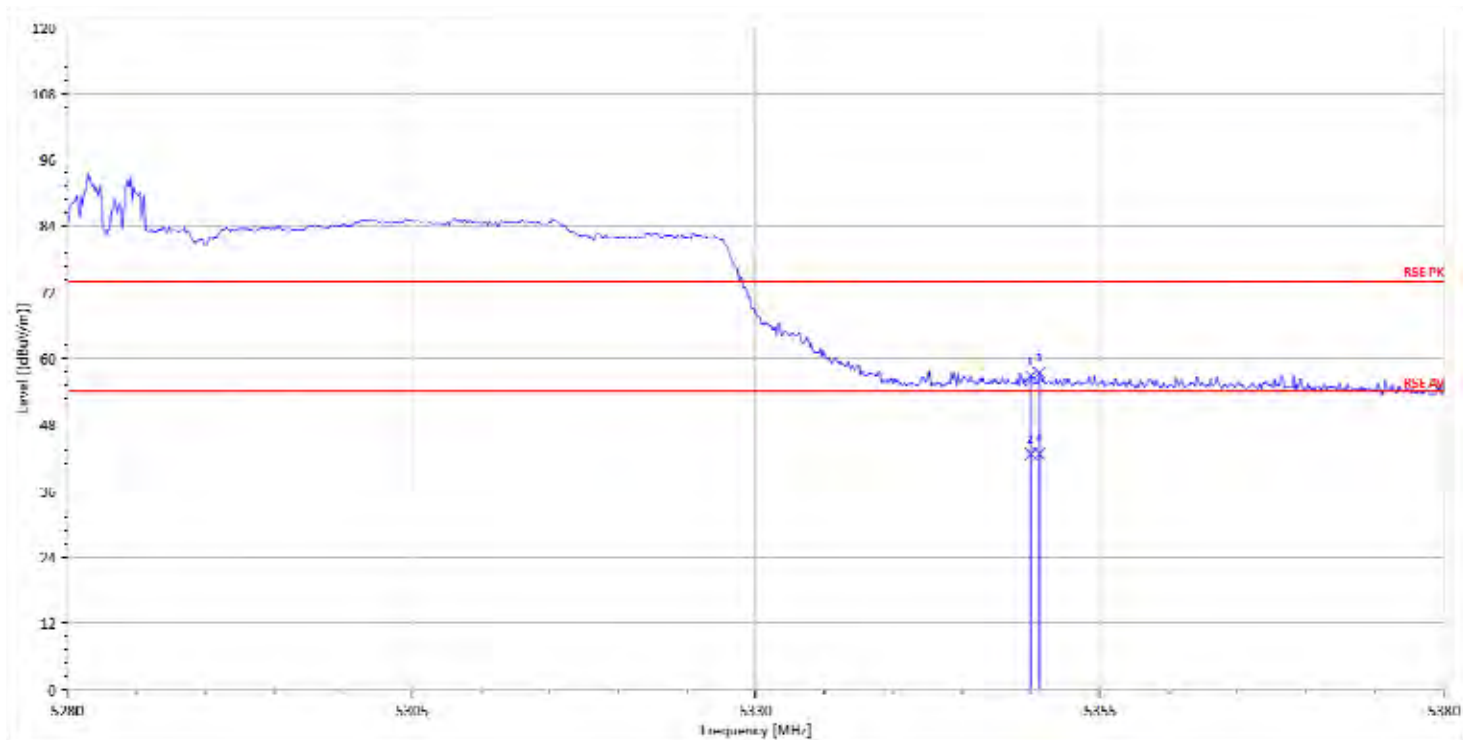
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5149.80	S	Peak	49.82	8.19	58.01	74	-15.99
5149.80	S	Average	32.15	8.19	40.34	54	-13.66
5150.00	E	Peak	44.13	8.19	52.32	74	-21.68
5150.00	E	Average	32.19	8.19	40.38	54	-13.62

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Operation Mode :	802.11ac80B2	Test Date :	2017/12/14
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



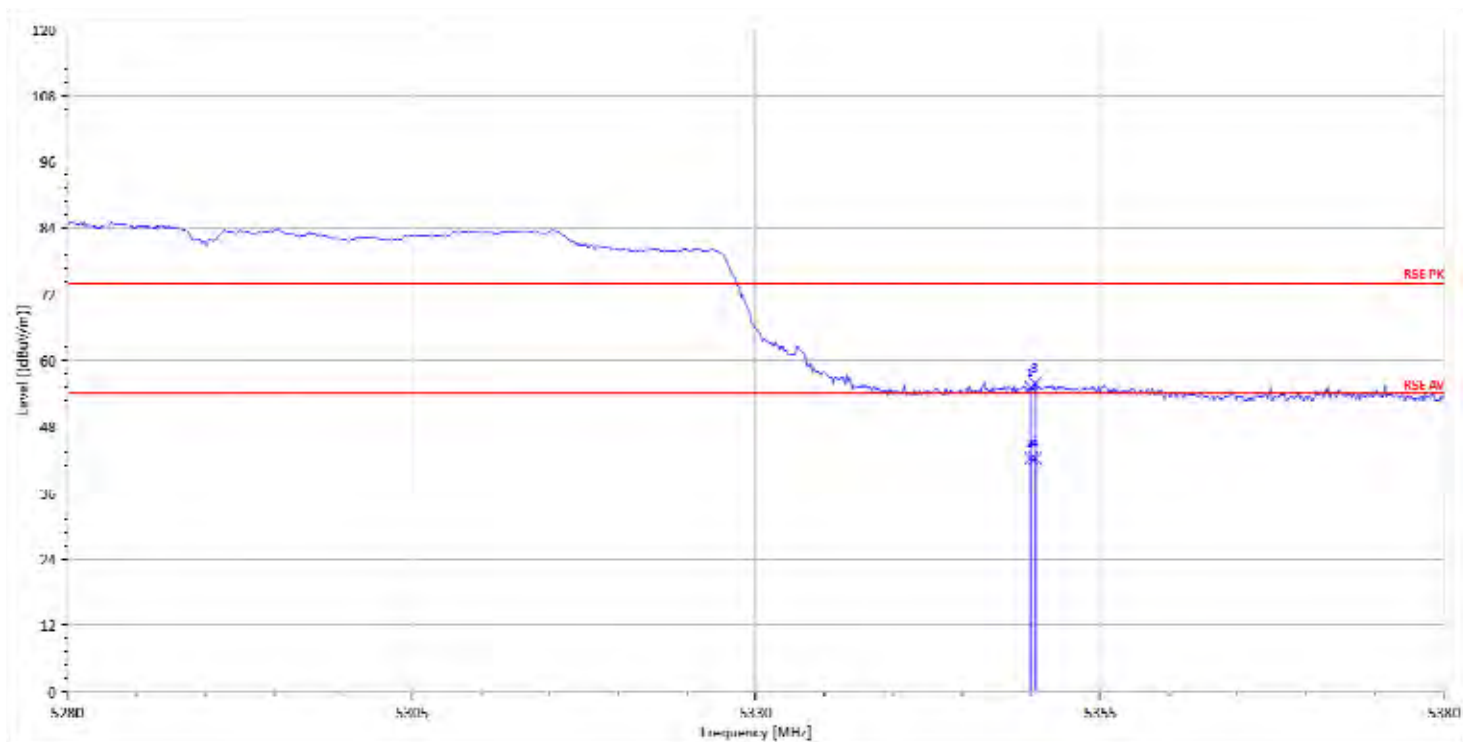
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	47.89	8.96	56.85	74	-17.15
5350.00	E	Average	33.73	8.96	42.69	54	-11.31
5350.60	S	Peak	48.44	8.97	57.41	74	-16.59
5350.60	S	Average	33.77	8.97	42.74	54	-11.26

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Operation Mode :	802.11ac80B2	Test Date :	2017/12/14
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



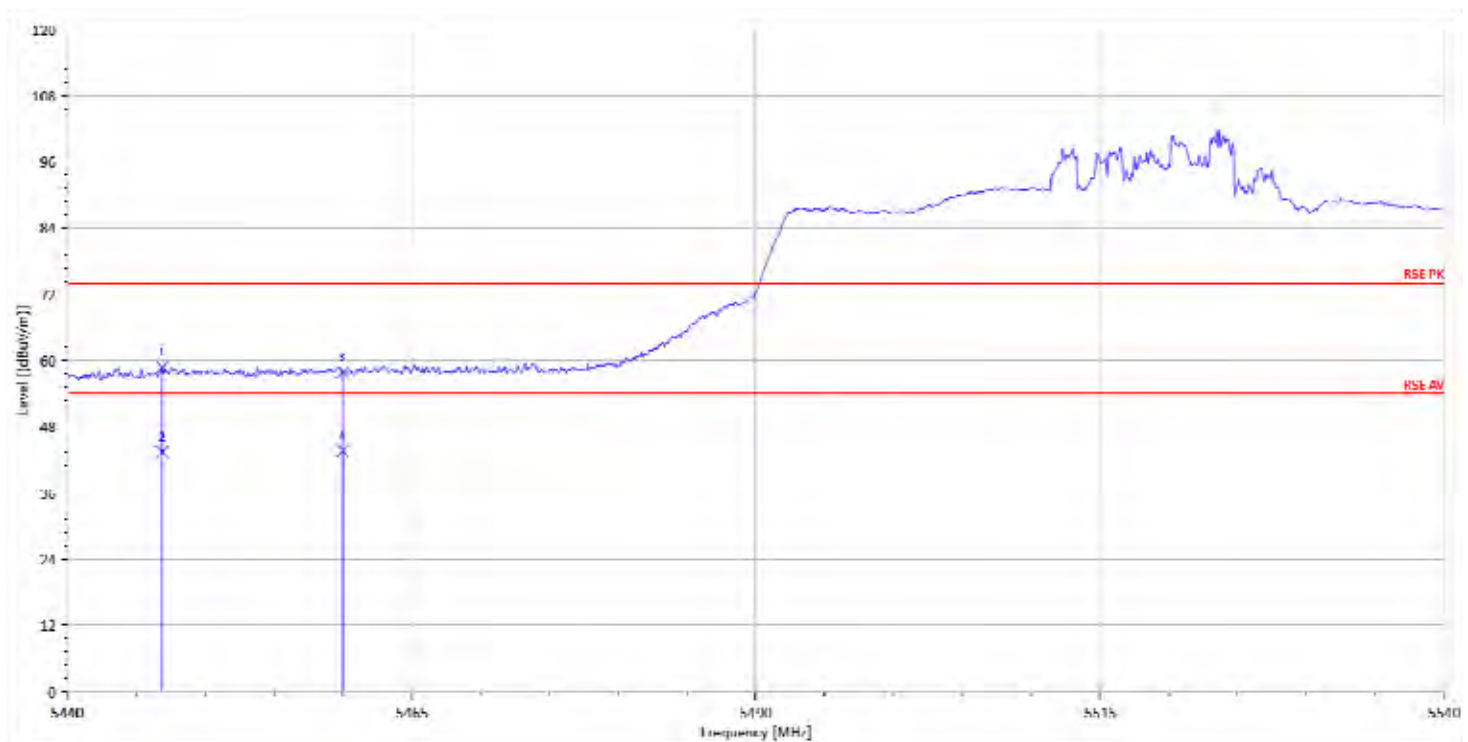
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	46.17	8.96	55.14	74	-18.86
5350.00	E	Average	33.33	8.96	42.29	54	-11.71
5350.30	S	Peak	46.87	8.97	55.84	74	-18.16
5350.30	S	Average	33.28	8.97	42.25	54	-11.75

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Operation Mode :	802.11ac80B3	Test Date :	2017/12/14
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



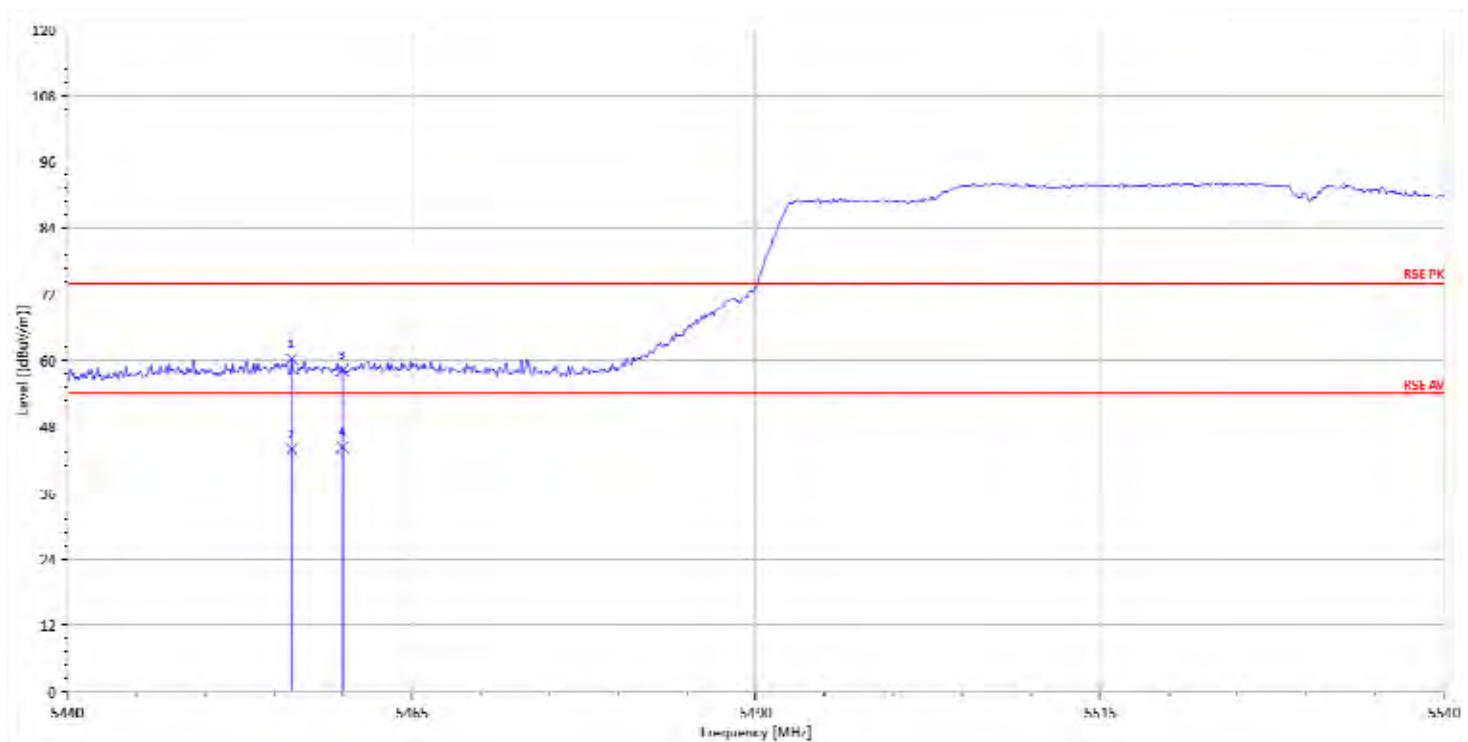
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5446.90	S	Peak	49.77	9.04	58.81	74	-15.19
5446.90	S	Average	34.37	9.04	43.41	54	-10.59
5460.00	E	Peak	49.05	8.88	57.93	74	-16.07
5460.00	E	Average	34.76	8.88	43.64	54	-10.36

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Operation Mode :	802.11ac80B3	Test Date :	2017/12/14
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



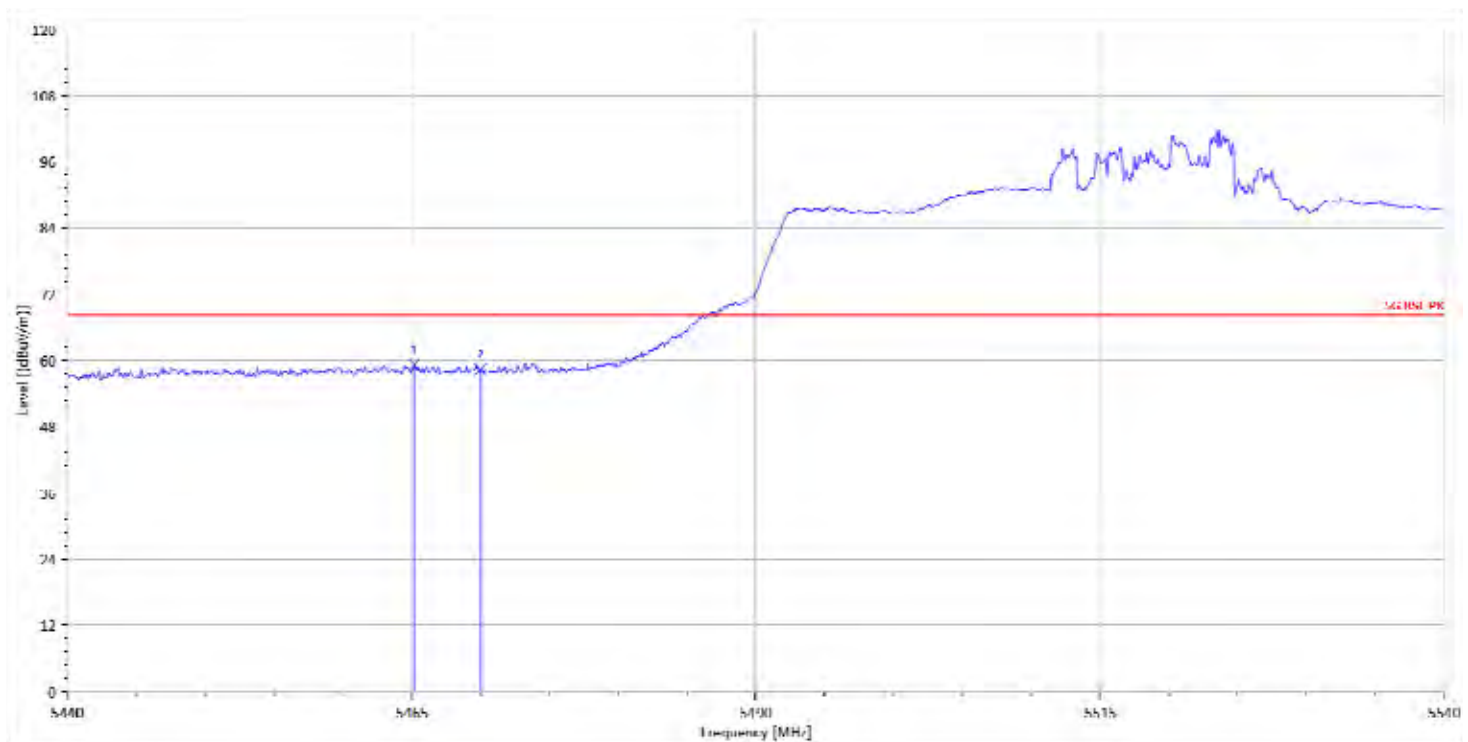
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5456.30	S	Peak	51.37	8.92	60.29	74	-13.71
5456.30	S	Average	35.02	8.92	43.94	54	-10.06
5460.00	E	Peak	49.36	8.88	58.24	74	-15.76
5460.00	E	Average	35.41	8.88	44.29	54	-9.71

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Operation Mode :	802.11ac80B3	Test Date :	2017/12/14
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW RSE	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5465.20	S	Peak	50.38	8.83	59.21	68.3	-9.09
5470.00	E	Peak	49.58	8.79	58.37	68.3	-9.93

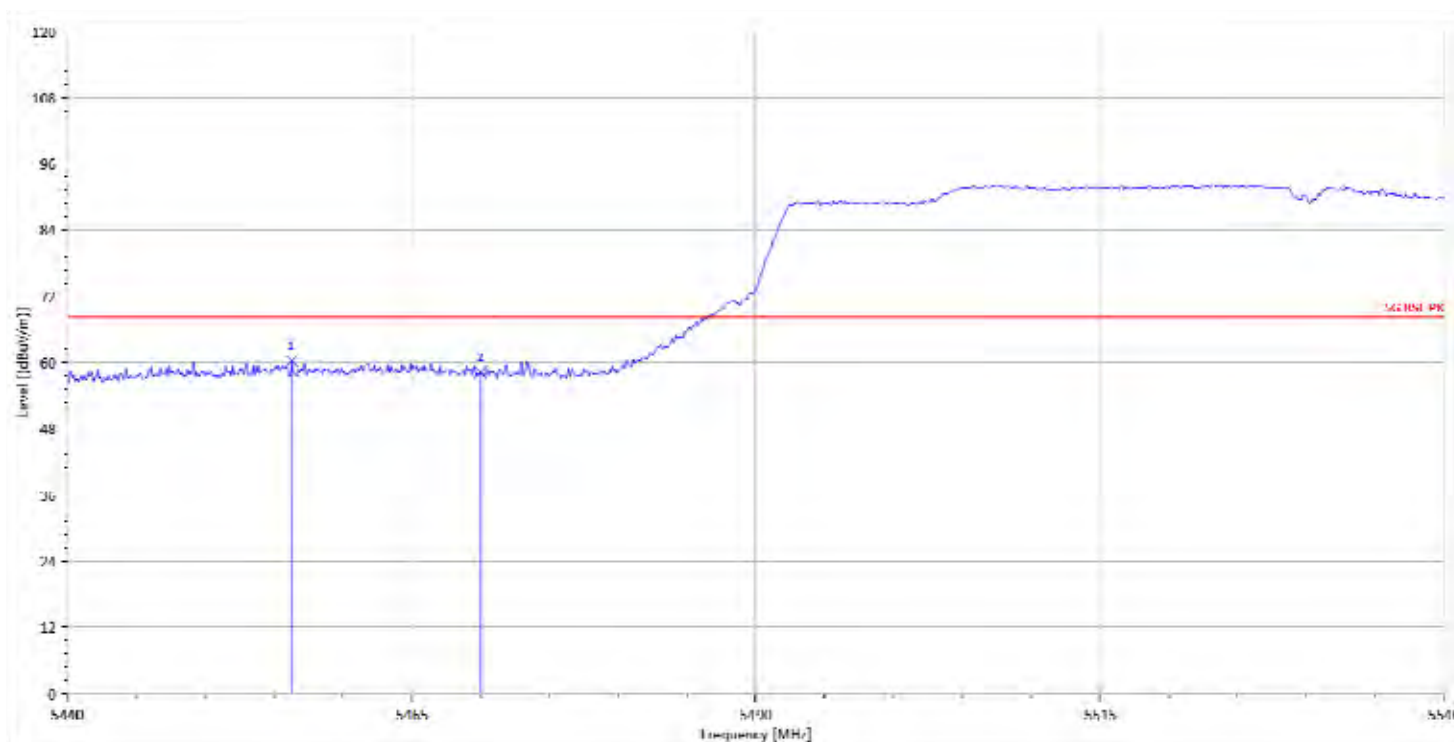
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Operation Mode : 802.11ac80B3
 Fundamental Frequency : 5530 MHz
 Operation Band : BE CH LOW RSE
 EUT Pol. : E2

Test Date : 2017/12/14
 Temp. / Humi. : 22.7deg_C/57RH
 Test Engineer : Enzo
 Measurement Antenna Pol. : Horizontal



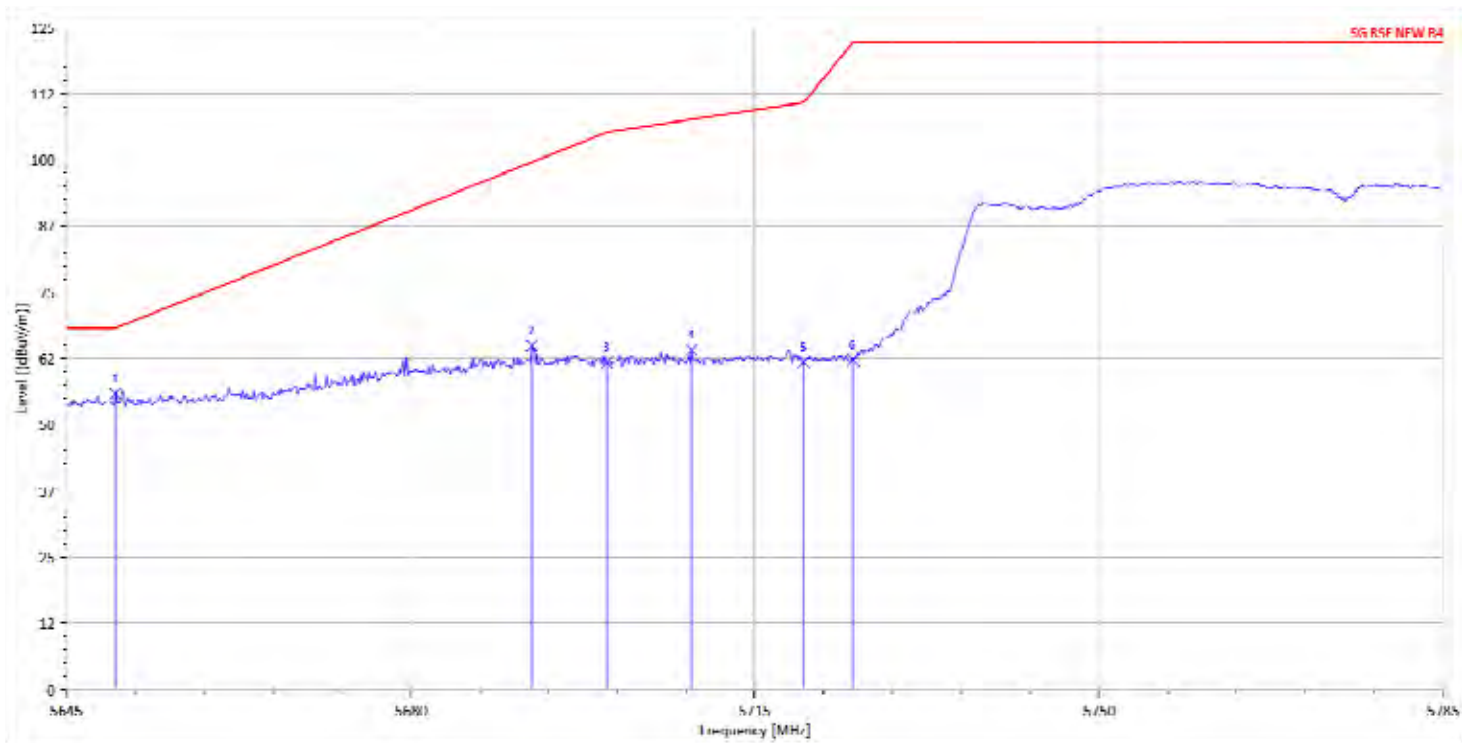
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5456.30	S	Peak	51.37	8.92	60.29	68.3	-8.01
5470.00	E	Peak	49.44	8.79	58.23	68.3	-10.07

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Operation Mode :	802.11ac80B4	Test Date :	2017/12/14
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	46.51	9.33	55.84	68.23	-12.39
5692.32	S	Peak	55.32	9.61	64.93	99.54668	-34.62
5700.00	S	Peak	52.33	9.44	61.77	105.23	-43.46
5708.56	S	Peak	54.87	9.25	64.12	107.6268	-43.51
5720.00	S	Peak	52.57	9.28	61.85	110.83	-48.98
5725.00	E	Peak	52.99	9.30	62.29	122.23	-59.94

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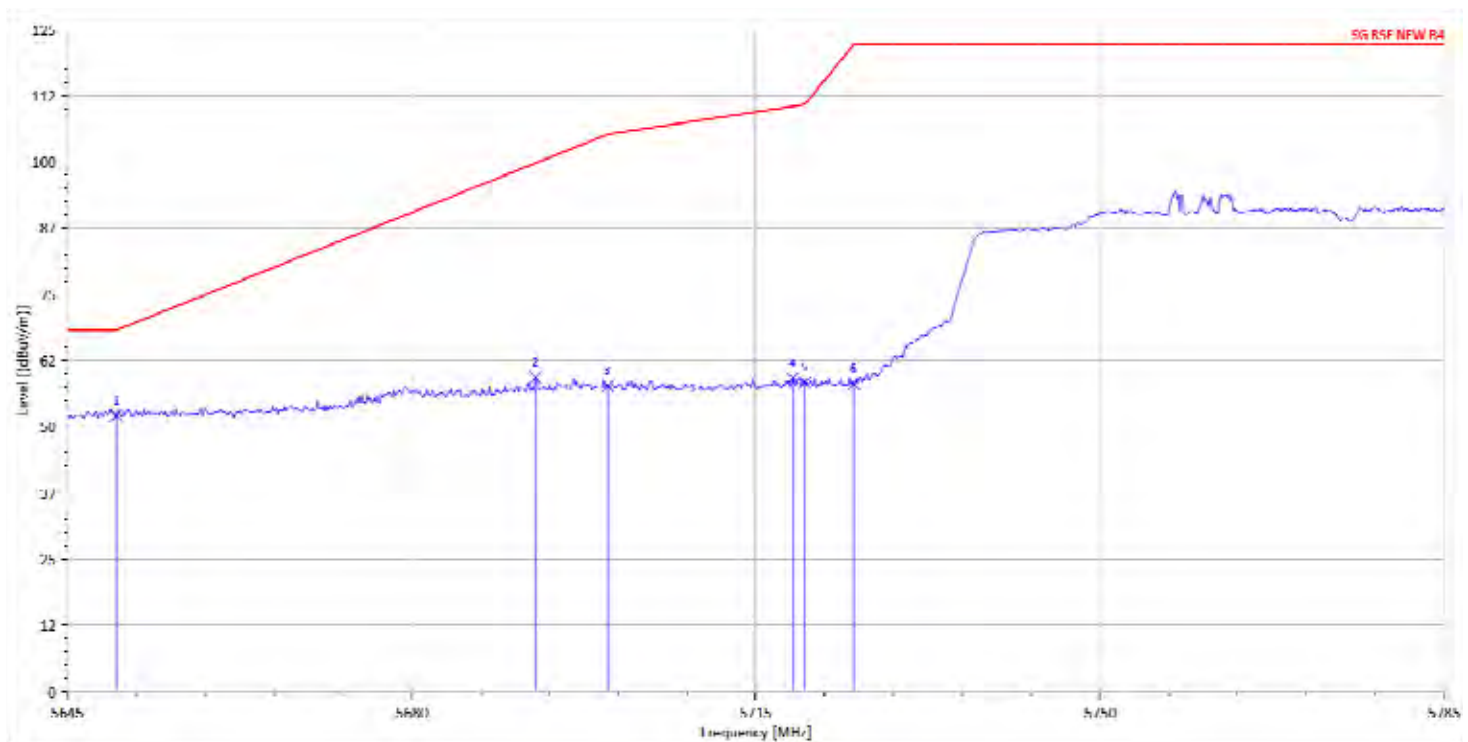
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Operation Mode :	802.11ac80B4	Test Date :	2017/12/14
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	42.82	9.33	52.15	68.23	-16.08
5692.60	S	Peak	49.70	9.60	59.31	99.75407	-40.45
5700.00	S	Peak	48.28	9.44	57.71	105.23	-47.52
5718.78	S	Peak	49.90	9.28	59.17	110.4883	-51.32
5720.00	S	Peak	49.05	9.28	58.33	110.83	-52.50
5725.00	E	Peak	48.83	9.30	58.13	122.23	-64.10

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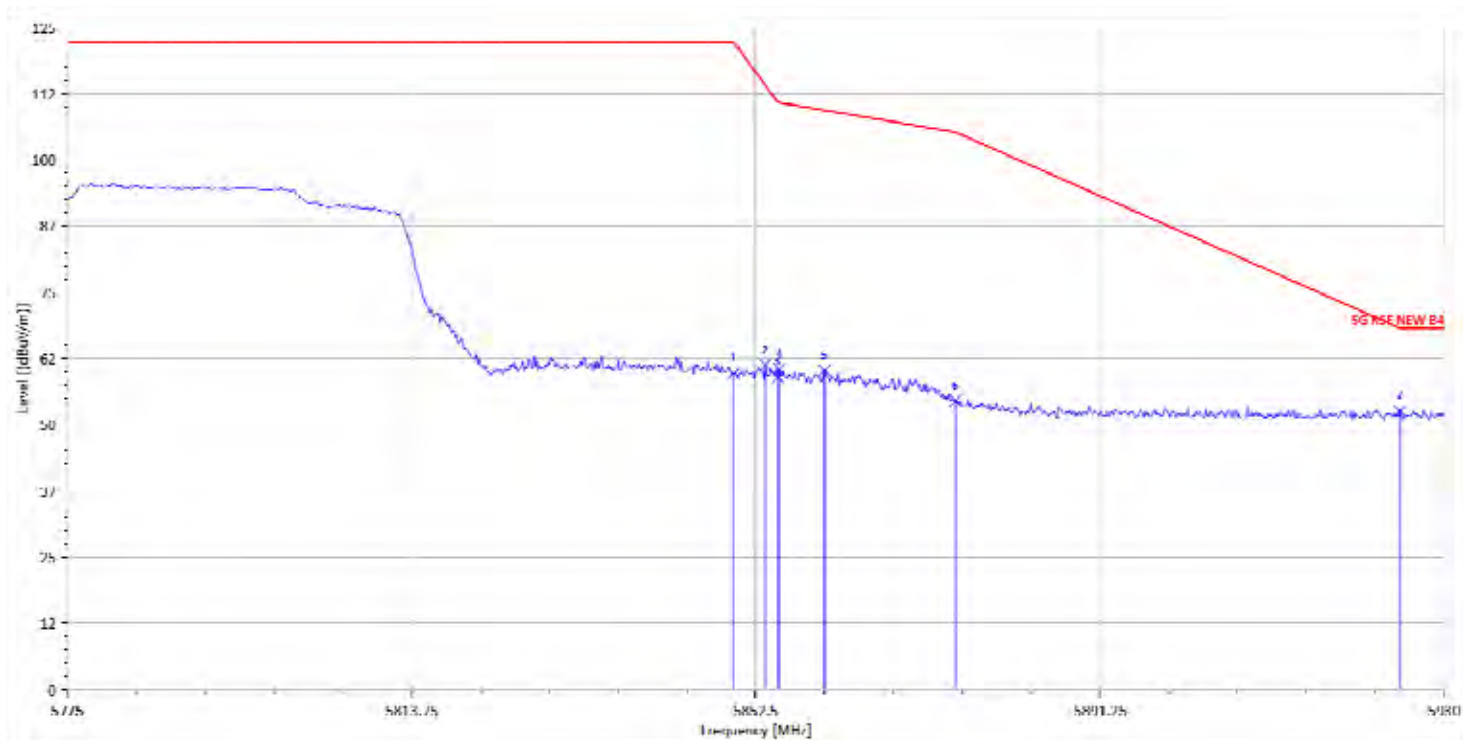
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Operation Mode :	802.11ac80B4	Test Date :	2017/12/14
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	50.15	9.49	59.64	122.23	-62.59
5853.59	S	Peak	51.72	9.55	61.28	114.0563	-52.78
5855.00	S	Peak	49.50	9.58	59.08	110.83	-51.75
5855.14	S	Peak	50.88	9.58	60.46	110.7923	-50.33
5860.25	S	Peak	50.57	9.68	60.25	109.36	-49.11
5875.00	S	Peak	44.89	9.63	54.53	105.23	-50.70
5925.00	S	Peak	42.56	10.01	52.57	68.23	-15.66

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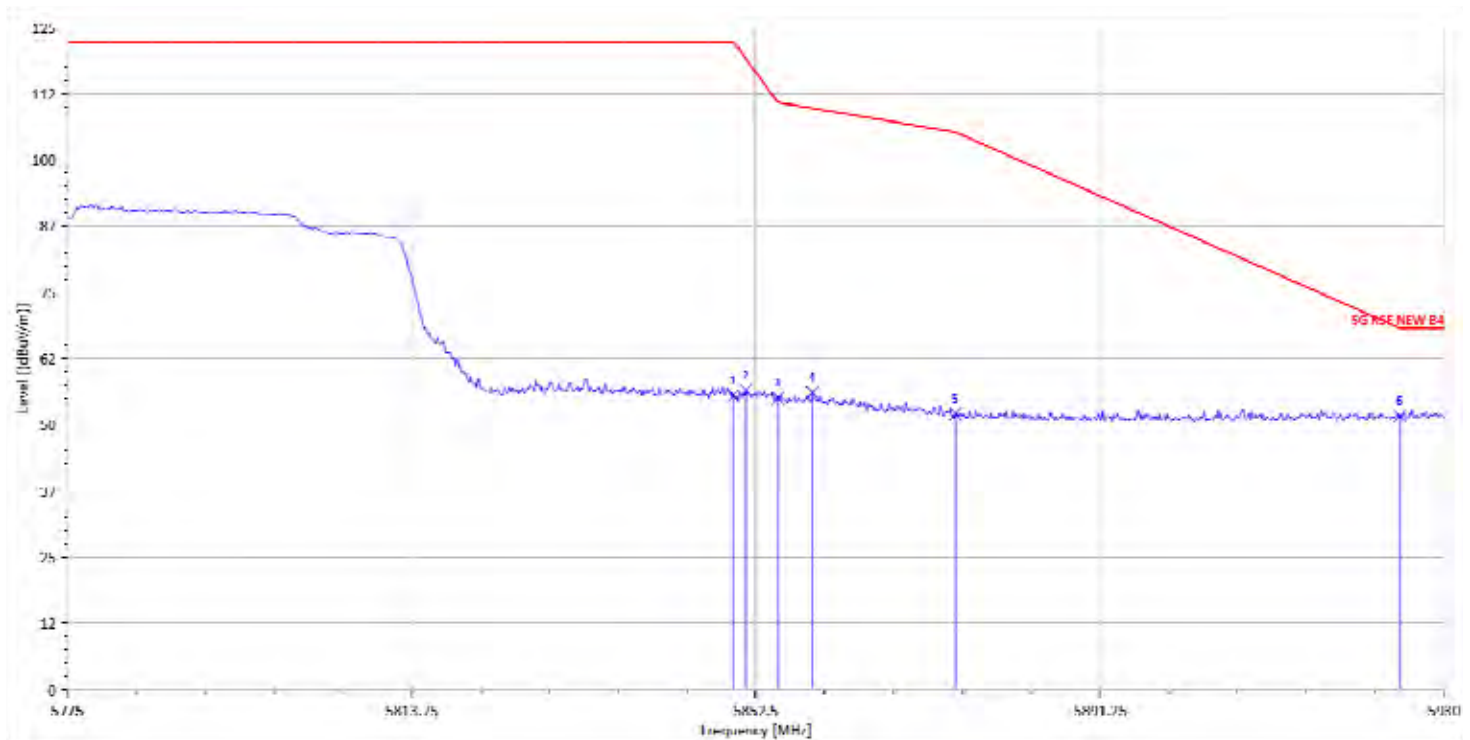
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Operation Mode : 802.11ac80B4 Test Date : 2017/12/14
Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH HIGH Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	46.00	9.49	55.49	122.23	-66.74
5851.42	S	Peak	46.98	9.51	56.50	119.0037	-62.51
5855.00	S	Peak	45.46	9.58	55.04	110.83	-55.79
5858.86	S	Peak	46.47	9.65	56.12	109.7506	-53.63
5875.00	S	Peak	42.43	9.63	52.07	105.23	-53.16
5925.00	S	Peak	41.58	10.01	51.59	68.23	-16.64

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12 TRANSMISSION IN THE ABSENCE OF DATA

12.1 Standard Applicable

According to §15.407(c)

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

12.2 Result

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

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13 FREQUENCY STABILITY

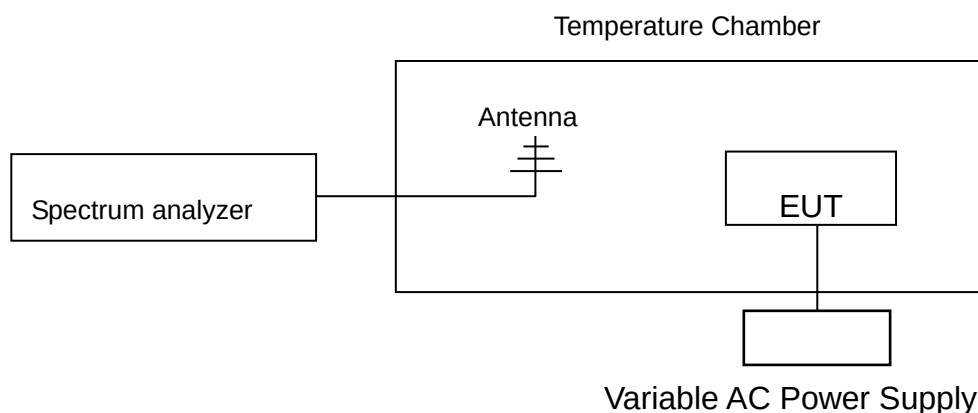
13.1 Standard Applicable

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

13.2 Measurement Procedure

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

13.3 Test SET-UP



13.4 Measurement Equipment Used:

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/24/2017	12/23/2018
DC Block	PASTERNAK	PE8210	RF29	12/24/2017	12/23/2018
Attenuator	WOKEN	218FS-10	RF23	12/24/2017	12/23/2018
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018

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13.5 Measurement Result

Startup:

Operation Mode	802.11 a	Test Date	2017.12.11
Temperature	:23 °C	Test By	Henry
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	8.74V	36	5180	5,180.09087	-0.00001754
		44	5220	5,220.09614	-0.00001842
		48	5240	5,240.01140	-0.00000218
		52	5260	5,260.02236	-0.00000425
		60	5300	5,300.08324	-0.00001571
		64	5320	5,320.05862	-0.00001102
		100	5500	5,500.07775	-0.00001414
		116	5580	5,580.09181	-0.00001645
		140	5700	5,700.04724	-0.00000829
		149	5745	5,745.06987	-0.00001216
		157	5785	5,785.08036	-0.00001389
		165	5825	5,825.08133	-0.00001396
	6.46V	36	5180	5,180.07293	-0.00001408
		44	5220	5,220.02371	-0.00000454
		48	5240	5,240.08931	-0.00001704
		52	5260	5,260.02940	-0.00000559
		60	5300	5,300.06397	-0.00001207
		64	5320	5,320.04523	-0.00000850
		100	5500	5,500.06382	-0.00001160
		116	5580	5,580.09254	-0.00001658
		140	5700	5,700.06370	-0.00001118
		149	5745	5,745.06432	-0.00001120
		157	5785	5,785.09546	-0.00001650
		165	5825	5,825.06616	-0.00001136

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25 °C	7.6V	36	5180	5,180.03003	-0.00000580
		44	5220	5,220.00000	0.00000000
		48	5240	5,239.98511	0.00000284
		52	5260	5,260.01489	-0.00000283
		60	5300	5,300.01514	-0.00000286
		64	5320	5,320.01514	-0.00000285
		100	5500	5,500.00000	0.00000000
		116	5580	5,580.00000	0.00000000
		140	5700	5,699.96997	0.00000527
		149	5745	5,745.00000	0.00000000
		157	5785	5,785.00000	0.00000000
		165	5825	5,825.00000	0.00000000

35 °C	8.74V	36	5180	5,179.90261	0.00001880
		44	5220	5,219.97475	0.00000484
		48	5240	5,239.95360	0.00000885
		52	5260	5,259.99651	0.00000066
		60	5300	5,299.91311	0.00001639
		64	5320	5,319.94547	0.00001025
		100	5500	5,499.93735	0.00001139
		116	5580	5,579.93880	0.00001097
		140	5700	5,699.97469	0.00000444
		149	5745	5,744.95321	0.00000814
		157	5785	5,784.97848	0.00000372
		165	5825	5,824.90600	0.00001614
	6.46V	36	5180	5,179.96805	0.00000617
		44	5220	5,219.97501	0.00000479
		48	5240	5,239.93842	0.00001175
		52	5260	5,259.95200	0.00000913
		60	5300	5,299.98062	0.00000366
		64	5320	5,319.97970	0.00000382
		100	5500	5,499.99791	0.00000038
		116	5580	5,579.97419	0.00000463
		140	5700	5,699.95939	0.00000712
		149	5745	5,744.90081	0.00001727
		157	5785	5,784.97625	0.00000411
		165	5825	5,824.91164	0.00001517

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Operation Mode	802.11 n_HT40	Test Date	2018.02.01
Temperature	:23 °C	Test By	Henry
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	8.74V	38	5190	5,190.05409	-0.00001042
		46	5230	5,230.03839	-0.00000734
		54	5270	5,270.05072	-0.00000962
		62	5310	5,310.08290	-0.00001561
		102	5510	5,510.06164	-0.00001119
		110	5550	5,550.07008	-0.00001263
		134	5670	5,670.00444	-0.00000078
		142	5710	5,710.00152	-0.00000027
		151	5755	5,755.05078	-0.00000882
		159	5795	5,795.08089	-0.00001396
	6.46V	38	5190	5,190.09166	-0.00001766
		46	5230	5,230.02761	-0.00000528
		54	5270	5,270.03225	-0.00000612
		62	5310	5,310.02051	-0.00000386
		102	5510	5,510.03589	-0.00000651
		110	5550	5,550.01372	-0.00000247
		134	5670	5,670.03281	-0.00000579
		142	5710	5,710.00259	-0.00000045
		151	5755	5,755.06389	-0.00001110
		159	5795	5,795.07208	-0.00001244

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25 °C	7.6V	38	5190	5,190.00000	0.00000000
		46	5230	5,230.02490	-0.00000476
		54	5270	5,270.02515	-0.00000477
		62	5310	5,309.97510	0.00000469
		102	5510	5,510.00000	0.00000000
		110	5550	5,550.02490	-0.00000449
		134	5670	5,670.04981	-0.00000878
		142	5710	5,710.00562	-0.00000098
		151	5755	5,755.05005	-0.00000870
		159	5795	5,795.00000	0.00000000
35 °C	8.74V	38	5190	5,189.93235	0.00001303
		46	5230	5,229.97187	0.00000538
		54	5270	5,269.96498	0.00000665
		62	5310	5,309.98805	0.00000225
		102	5510	5,509.97035	0.00000538
		110	5550	5,549.90661	0.00001683
		134	5670	5,669.91397	0.00001517
		142	5710	5,710.00129	-0.00000023
		151	5755	5,754.94593	0.00000940
		159	5795	5,794.93877	0.00001057
	6.46V	38	5190	5,189.92735	0.00001400
		46	5230	5,229.93195	0.00001301
		54	5270	5,269.99837	0.00000031
		62	5310	5,309.91823	0.00001540
		102	5510	5,509.93616	0.00001159
		110	5550	5,549.99135	0.00000156
		134	5670	5,669.99361	0.00000113
		142	5710	5,710.00428	-0.00000075
		151	5755	5,754.92361	0.00001327
		159	5795	5,794.91391	0.00001486

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Operation Mode	802.11 ac_VHT80	Test Date	2018.02.01
Temperature	23 °C	Test By	Henry
Humidity	68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	8.74V	42	5210	5,210.03003	-0.00000576
		58	5290	5,290.08714	-0.00001647
		106	5530	5,530.08674	-0.00001569
		122	5610	5,610.03109	-0.00000554
		138	5690	5,690.03214	-0.00000565
		155	5775	5,775.07642	-0.00001323
	6.46V	42	5210	5,210.04352	-0.00000835
		58	5290	5,290.05840	-0.00001104
		106	5530	5,530.03472	-0.00000628
		122	5610	5,610.07725	-0.00001377
		138	5690	5,690.04251	-0.00000747
		155	5775	5,775.08885	-0.00001539
25 °C	7.6V	42	5210	5,210.35010	-0.00006720
		58	5290	5,290.05005	-0.00000946
		106	5530	5,529.44995	0.00009947
		122	5610	5,610.40015	-0.00007133
		138	5690	5,690.02698	-0.00000474
		155	5775	5,774.94995	0.00000867
35 °C	8.74V	42	5210	5,209.90854	0.00001755
		58	5290	5,289.91722	0.00001565
		106	5530	5,529.98248	0.00000317
		122	5610	5,609.92808	0.00001282
		138	5690	5,690.04521	-0.00000795
		155	5775	5,774.96856	0.00000544
	6.46V	42	5210	5,209.91688	0.00001595
		58	5290	5,289.92535	0.00001411
		106	5530	5,529.94635	0.00000970
		122	5610	5,609.94378	0.00001002
		138	5690	5,690.06985	-0.00001228
		155	5775	5,774.95642	0.00000755

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2 Minutes:

Operation Mode	802.11 a	Test Date	2017.12.11
Temperature	:23 °C	Test By	Henry
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	8.74V	36	5180	5,180.05101	-0.00000985
		44	5220	5,220.09314	-0.00001784
		48	5240	5,240.09882	-0.00001886
		52	5260	5,260.05227	-0.00000994
		60	5300	5,300.00414	-0.00000078
		64	5320	5,320.05854	-0.00001100
		100	5500	5,500.08936	-0.00001625
		116	5580	5,580.00966	-0.00000173
		140	5700	5,700.03587	-0.00000629
		149	5745	5,745.00592	-0.00000103
		157	5785	5,785.03491	-0.00000603
		165	5825	5,825.01939	-0.00000333
	6.46V	36	5180	5,180.08690	-0.00001678
		44	5220	5,220.09426	-0.00001806
		48	5240	5,240.00772	-0.00000147
		52	5260	5,260.06868	-0.00001306
		60	5300	5,300.02556	-0.00000482
		64	5320	5,320.08421	-0.00001583
		100	5500	5,500.01188	-0.00000216
		116	5580	5,580.03666	-0.00000657
		140	5700	5,700.01345	-0.00000236
		149	5745	5,745.00500	-0.00000087
		157	5785	5,785.02217	-0.00000383
		165	5825	5,825.06188	-0.00001062

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25 °C	7.6V	36	5180	5,180.08928	-0.00001724
		44	5220	5,220.02495	-0.00000478
		48	5240	5,240.09320	-0.00001779
		52	5260	5,260.02070	-0.00000394
		60	5300	5,300.03975	-0.00000750
		64	5320	5,320.01269	-0.00000239
		100	5500	5,500.07364	-0.00001339
		116	5580	5,580.07379	-0.00001322
		140	5700	5,700.05450	-0.00000956
		149	5745	5,745.04401	-0.00000766
		157	5785	5,785.07257	-0.00001254
		165	5825	5,825.00533	-0.00000092

35 °C	8.74V	36	5180	5,179.98606	0.00000269
		44	5220	5,219.92896	0.00001361
		48	5240	5,239.98748	0.00000239
		52	5260	5,259.96379	0.00000688
		60	5300	5,299.93955	0.00001141
		64	5320	5,319.92883	0.00001338
		100	5500	5,499.98104	0.00000345
		116	5580	5,579.96205	0.00000680
		140	5700	5,699.99827	0.00000030
		149	5745	5,744.94857	0.00000895
		157	5785	5,784.99447	0.00000096
		165	5825	5,824.96712	0.00000564
	6.46V	36	5180	5,179.97895	0.00000406
		44	5220	5,219.94983	0.00000961
		48	5240	5,239.99405	0.00000114
		52	5260	5,259.96719	0.00000624
		60	5300	5,299.90331	0.00001824
		64	5320	5,319.91931	0.00001517
		100	5500	5,499.93098	0.00001255
		116	5580	5,579.96195	0.00000682
		140	5700	5,699.97030	0.00000521
		149	5745	5,744.94006	0.00001043
		157	5785	5,784.95409	0.00000794
		165	5825	5,824.92082	0.00001359

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Operation Mode	802.11 n_HT40	Test Date	2018.02.01
Temperature	:23 °C	Test By	Henry
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	8.74V	38	5190	5,190.01492	-0.00000287
		46	5230	5,230.09696	-0.00001854
		54	5270	5,270.02706	-0.00000513
		62	5310	5,310.07543	-0.00001421
		102	5510	5,510.05847	-0.00001061
		110	5550	5,550.05292	-0.00000954
		134	5670	5,670.06063	-0.00001069
		142	5710	5,710.00852	-0.00000149
		151	5755	5,755.07325	-0.00001273
		159	5795	5,795.03518	-0.00000607
	6.46V	38	5190	5,190.01956	-0.00000377
		46	5230	5,230.01904	-0.00000364
		54	5270	5,270.05939	-0.00001127
		62	5310	5,310.07868	-0.00001482
		102	5510	5,510.09575	-0.00001738
		110	5550	5,550.06462	-0.00001164
		134	5670	5,670.02626	-0.00000463
		142	5710	5,710.00571	-0.00000100
		151	5755	5,755.02262	-0.00000393
		159	5795	5,795.03995	-0.00000689

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25 °C	7.6V	38	5190	5,190.03676	-0.00000708
		46	5230	5,230.09159	-0.00001751
		54	5270	5,270.00784	-0.00000149
		62	5310	5,310.03546	-0.00000668
		102	5510	5,510.07970	-0.00001446
		110	5550	5,550.07414	-0.00001336
		134	5670	5,670.01261	-0.00000222
		142	5710	5,710.00569	-0.00000100
		151	5755	5,755.07909	-0.00001374
		159	5795	5,795.06442	-0.00001112
35 °C	8.74V	38	5190	5,189.92131	0.00001516
		46	5230	5,229.95147	0.00000928
		54	5270	5,269.91818	0.00001553
		62	5310	5,309.99557	0.00000083
		102	5510	5,509.91150	0.00001606
		110	5550	5,549.93592	0.00001155
		134	5670	5,669.97568	0.00000429
		142	5710	5,710.00451	-0.00000079
		151	5755	5,754.94465	0.00000962
		159	5795	5,794.91893	0.00001399
	6.46V	38	5190	5,189.98853	0.00000221
		46	5230	5,229.98652	0.00000258
		54	5270	5,269.96265	0.00000709
		62	5310	5,309.98319	0.00000317
		102	5510	5,509.97728	0.00000412
		110	5550	5,549.97926	0.00000374
		134	5670	5,669.92242	0.00001368
		142	5710	5,710.00175	-0.00000031
		151	5755	5,754.92926	0.00001229
		159	5795	5,794.99560	0.00000076

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Operation Mode	802.11 ac_VHT80	Test Date	2018.02.01
Temperature	:23 °C	Test By	Henry
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	8.74V	42	5210	5,210.01944	-0.00000373
		58	5290	5,290.09580	-0.00001811
		106	5530	5,530.00500	-0.00000090
		122	5610	5,610.08931	-0.00001592
		138	5690	5,690.06521	-0.00001146
		155	5775	5,775.02449	-0.00000424
	6.46V	42	5210	5,210.02313	-0.00000444
		58	5290	5,290.01304	-0.00000247
		106	5530	5,530.03894	-0.00000704
		122	5610	5,610.00904	-0.00000161
		138	5690	5,690.04511	-0.00000793
		155	5775	5,775.04026	-0.00000697
25 °C	7.6V	42	5210	5,210.03505	-0.00000673
		58	5290	5,290.08769	-0.00001658
		106	5530	5,530.07270	-0.00001315
		122	5610	5,610.04167	-0.00000743
		138	5690	5,690.06521	-0.00001146
		155	5775	5,775.09518	-0.00001648
35 °C	8.74V	42	5210	5,209.94091	0.00001134
		58	5290	5,289.98103	0.00000359
		106	5530	5,529.99613	0.00000070
		122	5610	5,609.99569	0.00000077
		138	5690	5,690.05247	-0.00000922
		155	5775	5,774.97176	0.00000489
	6.46V	42	5210	5,209.96596	0.00000653
		58	5290	5,289.90082	0.00001875
		106	5530	5,529.98564	0.00000260
		122	5610	5,609.95580	0.00000788
		138	5690	5,690.06547	-0.00001151
		155	5775	5,774.94217	0.00001001

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Operation Mode	802.11 a	Test Date	2017.12.11
Temperature	:23 °C	Test By	Henry
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	8.74V	36	5180	5,180.00565	-0.00000109
		44	5220	5,220.03934	-0.00000754
		48	5240	5,240.06043	-0.00001153
		52	5260	5,260.01283	-0.00000244
		60	5300	5,300.08676	-0.00001637
		64	5320	5,320.09997	-0.00001879
		100	5500	5,500.08634	-0.00001570
		116	5580	5,580.05633	-0.00001009
		140	5700	5,700.03090	-0.00000542
		149	5745	5,745.03166	-0.00000551
		157	5785	5,785.01080	-0.00000187
		165	5825	5,825.08249	-0.00001416
	6.46V	36	5180	5,180.07687	-0.00001484
		44	5220	5,220.04508	-0.00000864
		48	5240	5,240.04252	-0.00000811
		52	5260	5,260.07457	-0.00001418
		60	5300	5,300.07812	-0.00001474
		64	5320	5,320.08142	-0.00001530
		100	5500	5,500.00170	-0.00000031
		116	5580	5,580.06449	-0.00001156
		140	5700	5,700.02355	-0.00000413
		149	5745	5,745.08732	-0.00001520
		157	5785	5,785.06280	-0.00001086
		165	5825	5,825.01343	-0.00000231

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25 °C	7.6V	36	5180	5,180.02074	-0.00000400
		44	5220	5,220.05091	-0.00000975
		48	5240	5,240.03291	-0.00000628
		52	5260	5,260.07891	-0.00001500
		60	5300	5,300.04252	-0.00000802
		64	5320	5,320.05565	-0.00001046
		100	5500	5,500.05967	-0.00001085
		116	5580	5,580.07103	-0.00001273
		140	5700	5,700.00854	-0.00000150
		149	5745	5,745.07792	-0.00001356
		157	5785	5,785.00290	-0.00000050
		165	5825	5,825.09196	-0.00001579

35 °C	8.74V	36	5180	5,179.97726	0.00000439
		44	5220	5,219.93869	0.00001175
		48	5240	5,239.99783	0.00000041
		52	5260	5,259.91215	0.00001670
		60	5300	5,299.97875	0.00000401
		64	5320	5,319.99687	0.00000059
		100	5500	5,499.98593	0.00000256
		116	5580	5,579.99712	0.00000052
		140	5700	5,699.99584	0.00000073
		149	5745	5,744.96289	0.00000646
		157	5785	5,784.99467	0.00000092
		165	5825	5,824.95386	0.00000792
	6.46V	36	5180	5,179.95344	0.00000899
		44	5220	5,219.91935	0.00001545
		48	5240	5,239.99154	0.00000161
		52	5260	5,259.93049	0.00001321
		60	5300	5,299.91144	0.00001671
		64	5320	5,319.92464	0.00001417
		100	5500	5,499.90252	0.00001772
		116	5580	5,579.95573	0.00000793
		140	5700	5,699.99645	0.00000062
		149	5745	5,744.90017	0.00001738
		157	5785	5,784.95042	0.00000857
		165	5825	5,824.95423	0.00000786

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Operation Mode	802.11 n_HT40	Test Date	2018.02.01
Temperature	:23 °C	Test By	Henry
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	8.74V	38	5190	5,190.00764	-0.00000147
		46	5230	5,230.08980	-0.00001717
		54	5270	5,270.04840	-0.00000918
		62	5310	5,310.09900	-0.00001864
		102	5510	5,510.01406	-0.00000255
		110	5550	5,550.08476	-0.00001527
		134	5670	5,670.09264	-0.00001634
		142	5710	5,710.00398	-0.00000070
		151	5755	5,755.05158	-0.00000896
		159	5795	5,795.05812	-0.00001003
	6.46V	38	5190	5,190.04347	-0.00000838
		46	5230	5,230.03697	-0.00000707
		54	5270	5,270.05034	-0.00000955
		62	5310	5,310.00456	-0.00000086
		102	5510	5,510.07417	-0.00001346
		110	5550	5,550.09718	-0.00001751
		134	5670	5,670.01257	-0.00000222
		142	5710	5,710.00456	-0.00000080
		151	5755	5,755.08784	-0.00001526
		159	5795	5,795.08983	-0.00001550

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25 °C	7.6V	38	5190	5,190.03127	-0.00000603
		46	5230	5,230.07361	-0.00001407
		54	5270	5,270.03990	-0.00000757
		62	5310	5,310.09189	-0.00001731
		102	5510	5,510.09153	-0.00001661
		110	5550	5,550.04766	-0.00000859
		134	5670	5,670.07977	-0.00001407
		142	5710	5,710.00875	-0.00000153
		151	5755	5,755.08585	-0.00001492
		159	5795	5,795.07885	-0.00001361
35 °C	8.74V	38	5190	5,189.97495	0.00000483
		46	5230	5,229.90487	0.00001819
		54	5270	5,269.92554	0.00001413
		62	5310	5,309.91503	0.00001600
		102	5510	5,509.97543	0.00000446
		110	5550	5,549.94363	0.00001016
		134	5670	5,669.98246	0.00000309
		142	5710	5,710.00547	-0.00000096
		151	5755	5,754.98583	0.00000246
		159	5795	5,794.94565	0.00000938
	6.46V	38	5190	5,189.99536	0.00000089
		46	5230	5,229.95452	0.00000870
		54	5270	5,269.94346	0.00001073
		62	5310	5,309.93400	0.00001243
		102	5510	5,509.91496	0.00001543
		110	5550	5,549.96177	0.00000689
		134	5670	5,669.90246	0.00001720
		142	5710	5,710.00952	-0.00000167
		151	5755	5,754.91359	0.00001501
		159	5795	5,794.94573	0.00000936

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Operation Mode	802.11 ac_VHT80	Test Date	2018.02.01
Temperature	:23 °C	Test By	Henry
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	8.74V	42	5210	5,210.03891	-0.00000747
		58	5290	5,290.05002	-0.00000946
		106	5530	5,530.07289	-0.00001318
		122	5610	5,610.02831	-0.00000505
		138	5690	5,690.04521	-0.00000795
		155	5775	5,775.04185	-0.00000725
	6.46V	42	5210	5,210.03684	-0.00000707
		58	5290	5,290.05260	-0.00000994
		106	5530	5,530.04862	-0.00000879
		122	5610	5,610.09537	-0.00001700
		138	5690	5,690.05274	-0.00000927
		155	5775	5,775.02180	-0.00000377
25 °C	7.6V	42	5210	5,210.01217	-0.00000234
		58	5290	5,290.08459	-0.00001599
		106	5530	5,530.03370	-0.00000609
		122	5610	5,610.09062	-0.00001615
		138	5690	5,690.03658	-0.00000643
		155	5775	5,775.06217	-0.00001077
35 °C	8.74V	42	5210	5,209.99181	0.00000157
		58	5290	5,289.97914	0.00000394
		106	5530	5,529.92373	0.00001379
		122	5610	5,609.94965	0.00000898
		138	5690	5,690.06258	-0.00001100
		155	5775	5,774.95065	0.00000855
	6.46V	42	5210	5,209.93953	0.00001161
		58	5290	5,289.90279	0.00001838
		106	5530	5,529.96292	0.00000671
		122	5610	5,609.95284	0.00000841
		138	5690	5,690.02589	-0.00000455
		155	5775	5,774.96766	0.00000560

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10 Minutes:

Operation Mode	802.11 a	Test Date	2017.12.11
Temperature	:23 °C	Test By	Henry
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	8.74V	36	5180	5,180.00494	-0.00000095
		44	5220	5,220.08143	-0.00001560
		48	5240	5,240.00401	-0.00000077
		52	5260	5,260.09454	-0.00001797
		60	5300	5,300.06898	-0.00001302
		64	5320	5,320.07424	-0.00001395
		100	5500	5,500.02017	-0.00000367
		116	5580	5,580.01720	-0.00000308
		140	5700	5,700.01583	-0.00000278
		149	5745	5,745.06186	-0.00001077
		157	5785	5,785.00996	-0.00000172
		165	5825	5,825.05337	-0.00000916
	6.46V	36	5180	5,180.02657	-0.00000513
		44	5220	5,220.01078	-0.00000207
		48	5240	5,240.09284	-0.00001772
		52	5260	5,260.04990	-0.00000949
		60	5300	5,300.07353	-0.00001387
		64	5320	5,320.01521	-0.00000286
		100	5500	5,500.05349	-0.00000973
		116	5580	5,580.08964	-0.00001606
		140	5700	5,700.03720	-0.00000653
		149	5745	5,745.02987	-0.00000520
		157	5785	5,785.04764	-0.00000824
		165	5825	5,825.07452	-0.00001279

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25 °C	7.6V	36	5180	5,180.00553	-0.00000107
		44	5220	5,220.02288	-0.00000438
		48	5240	5,240.00124	-0.00000024
		52	5260	5,260.04949	-0.00000941
		60	5300	5,300.04766	-0.00000899
		64	5320	5,320.06593	-0.00001239
		100	5500	5,500.09481	-0.00001724
		116	5580	5,580.08632	-0.00001547
		140	5700	5,700.07989	-0.00001402
		149	5745	5,745.01126	-0.00000196
		157	5785	5,785.09918	-0.00001714
		165	5825	5,825.04234	-0.00000727

35 °C	8.74V	36	5180	5,179.95313	0.00000905
		44	5220	5,219.90529	0.00001814
		48	5240	5,239.92672	0.00001398
		52	5260	5,259.91374	0.00001640
		60	5300	5,299.92445	0.00001425
		64	5320	5,319.99714	0.00000054
		100	5500	5,499.96531	0.00000631
		116	5580	5,579.97463	0.00000455
		140	5700	5,699.91141	0.00001554
		149	5745	5,744.91002	0.00001566
		157	5785	5,784.92635	0.00001273
		165	5825	5,824.97219	0.00000477
	6.46V	36	5180	5,179.90141	0.00001903
		44	5220	5,219.96848	0.00000604
		48	5240	5,239.90146	0.00001881
		52	5260	5,259.94151	0.00001112
		60	5300	5,299.99602	0.00000075
		64	5320	5,319.90541	0.00001778
		100	5500	5,499.99624	0.00000068
		116	5580	5,579.98096	0.00000341
		140	5700	5,699.91375	0.00001513
		149	5745	5,744.90596	0.00001637
		157	5785	5,784.91131	0.00001533
		165	5825	5,824.92914	0.00001216

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Operation Mode	802.11 n_HT40	Test Date	2018.02.01
Temperature	:23 °C	Test By	Henry
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	8.74V	38	5190	5,190.06716	-0.00001294
		46	5230	5,230.03255	-0.00000622
		54	5270	5,270.02992	-0.00000568
		62	5310	5,310.07286	-0.00001372
		102	5510	5,510.03096	-0.00000562
		110	5550	5,550.09387	-0.00001691
		134	5670	5,670.09160	-0.00001616
		142	5710	5,710.00542	-0.00000095
		151	5755	5,755.00667	-0.00000116
		159	5795	5,795.05914	-0.00001021
	6.46V	38	5190	5,190.09914	-0.00001910
		46	5230	5,230.09610	-0.00001837
		54	5270	5,270.06269	-0.00001190
		62	5310	5,310.03131	-0.00000590
		102	5510	5,510.08479	-0.00001539
		110	5550	5,550.01958	-0.00000353
		134	5670	5,670.02681	-0.00000473
		142	5710	5,710.00541	-0.00000095
		151	5755	5,755.01423	-0.00000247
		159	5795	5,795.06356	-0.00001097

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25 °C	7.6V	38	5190	5,190.08370	-0.00001613
		46	5230	5,230.07292	-0.00001394
		54	5270	5,270.09214	-0.00001748
		62	5310	5,310.04841	-0.00000912
		102	5510	5,510.01191	-0.00000216
		110	5550	5,550.08524	-0.00001536
		134	5670	5,670.09249	-0.00001631
		142	5710	5,710.00452	-0.00000079
		151	5755	5,755.00399	-0.00000069
		159	5795	5,795.02590	-0.00000447
35 °C	8.74V	38	5190	5,189.99964	0.00000007
		46	5230	5,229.95266	0.00000905
		54	5270	5,269.95783	0.00000800
		62	5310	5,309.92218	0.00001466
		102	5510	5,509.97565	0.00000442
		110	5550	5,549.91189	0.00001588
		134	5670	5,669.98617	0.00000244
		142	5710	5,710.00654	-0.00000115
		151	5755	5,754.98756	0.00000216
		159	5795	5,794.91940	0.00001391
	6.46V	38	5190	5,189.99622	0.00000073
		46	5230	5,229.99447	0.00000106
		54	5270	5,269.93163	0.00001297
		62	5310	5,309.93114	0.00001297
		102	5510	5,509.98724	0.00000232
		110	5550	5,549.94928	0.00000914
		134	5670	5,669.90000	0.00001764
		142	5710	5,710.00651	-0.00000114
		151	5755	5,754.95261	0.00000823
		159	5795	5,794.95861	0.00000714

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Operation Mode	802.11 ac_VHT80	Test Date	2018.02.01
Temperature	:23 °C	Test By	Henry
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	8.74V	42	5210	5,210.07567	-0.00001452
		58	5290	5,290.07899	-0.00001493
		106	5530	5,530.00478	-0.00000086
		122	5610	5,610.09795	-0.00001746
		138	5690	5,690.08794	-0.00001546
		155	5775	5,775.00234	-0.00000041
	6.46V	42	5210	5,210.09373	-0.00001799
		58	5290	5,290.07307	-0.00001381
		106	5530	5,530.04096	-0.00000741
		122	5610	5,610.06783	-0.00001209
		138	5690	5,690.01654	-0.00000291
		155	5775	5,775.02690	-0.00000466
25 °C	7.6V	42	5210	5,210.02380	-0.00000457
		58	5290	5,290.01965	-0.00000371
		106	5530	5,530.06240	-0.00001128
		122	5610	5,610.09460	-0.00001686
		138	5690	5,690.06982	-0.00001227
		155	5775	5,775.05889	-0.00001020
35 °C	8.74V	42	5210	5,209.98442	0.00000299
		58	5290	5,289.96297	0.00000700
		106	5530	5,529.92249	0.00001402
		122	5610	5,609.94864	0.00000916
		138	5690	5,690.04158	-0.00000731
		155	5775	5,774.97896	0.00000364
	6.46V	42	5210	5,209.95465	0.00000870
		58	5290	5,289.90352	0.00001824
		106	5530	5,529.90234	0.00001766
		122	5610	5,609.99381	0.00000110
		138	5690	5,690.02318	-0.00000407
		155	5775	5,774.95067	0.00000854

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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14 ANTENNA REQUIREMENT

14.1 Standard Applicable

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

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

14.2 Antenna Connected Construction

PCB antenna designs are used.

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

The antenna gain is less than 6dBi. Therefore, it is not necessary to reduce maximum output power limit.

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