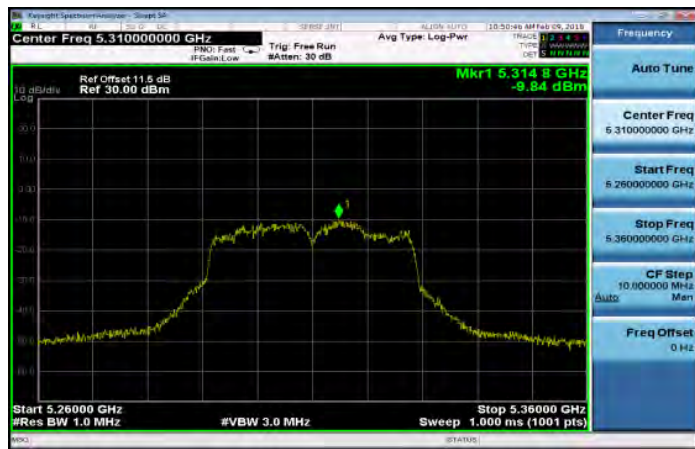


802.11n_40MHz_5310MHz



802.11n_40MHz_5670MHz



802.11n_40MHz_5510MHz



802.11n_40MHz_5710MHz



802.11n_40MHz_5550MHz



802.11n_40MHz_5755MHz



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802.11n_40MHz_5795MHz



802.11ac_80MHz_5210MHz



802.11ac_80MHz_5290MHz



802.11ac_80MHz_5530MHz



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802.11ac_80MHz_5610MHz



802.11ac_80MHz_5690MHz



802.11ac_80MHz_5775MHz



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11 UNDESIRABLE RADIATED EMISSION MEASUREMENT

11.1 Standard Applicable

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

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

APPLICABLE TO	LIMIT	
FCC KDB 789033 D02 General UNII Test Procedures New Rules	FIELD STRENGTH AT 3m	
	PK: 74 (dBμV/m)	AV 54 (dBμV/m)
APPLICABLE TO	EIRP LIMIT	FIELD STRENGTH AT 3m
15.407(b)(1) 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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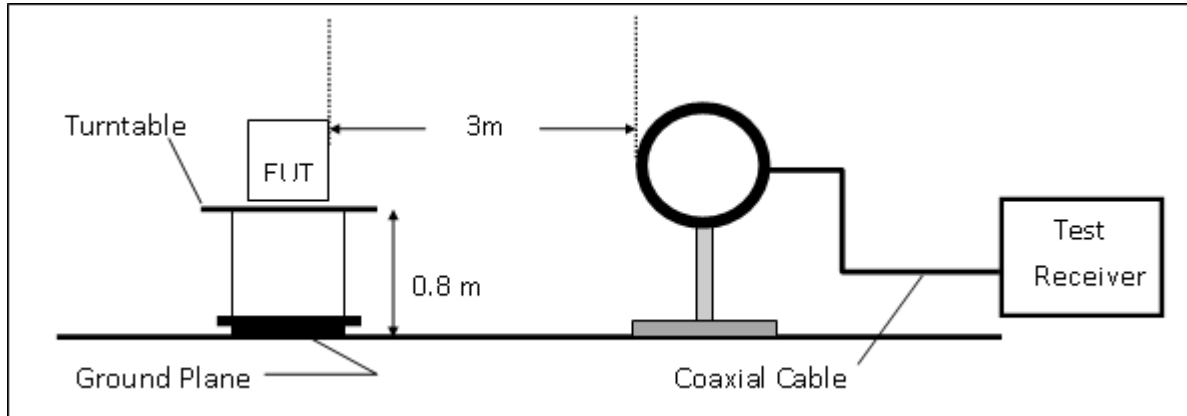
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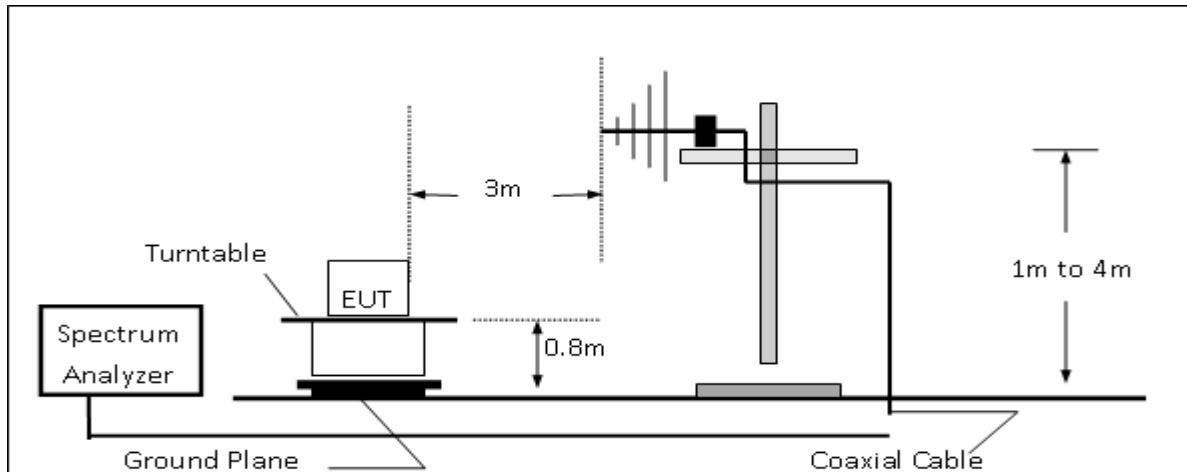
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11.3 Test SET-UP

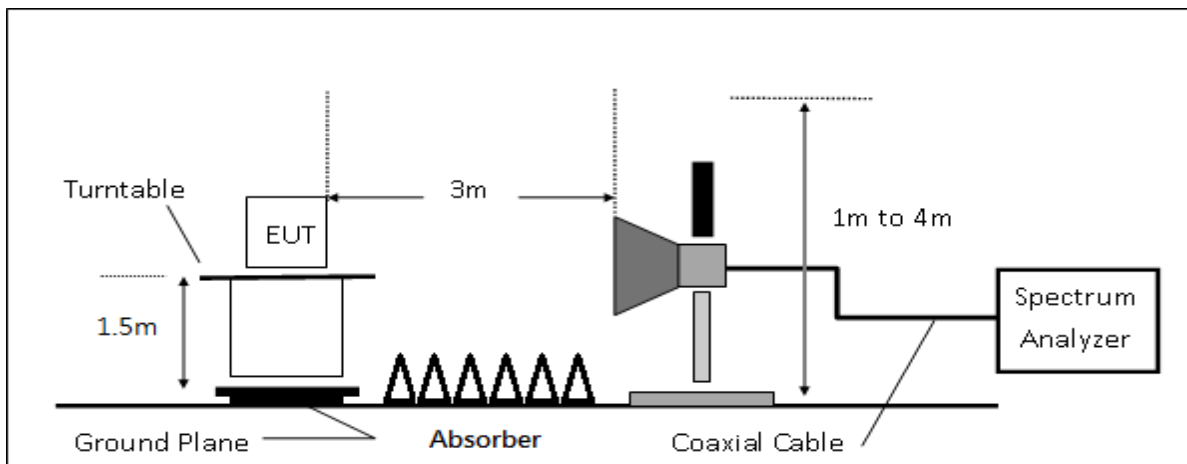
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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 ≥ 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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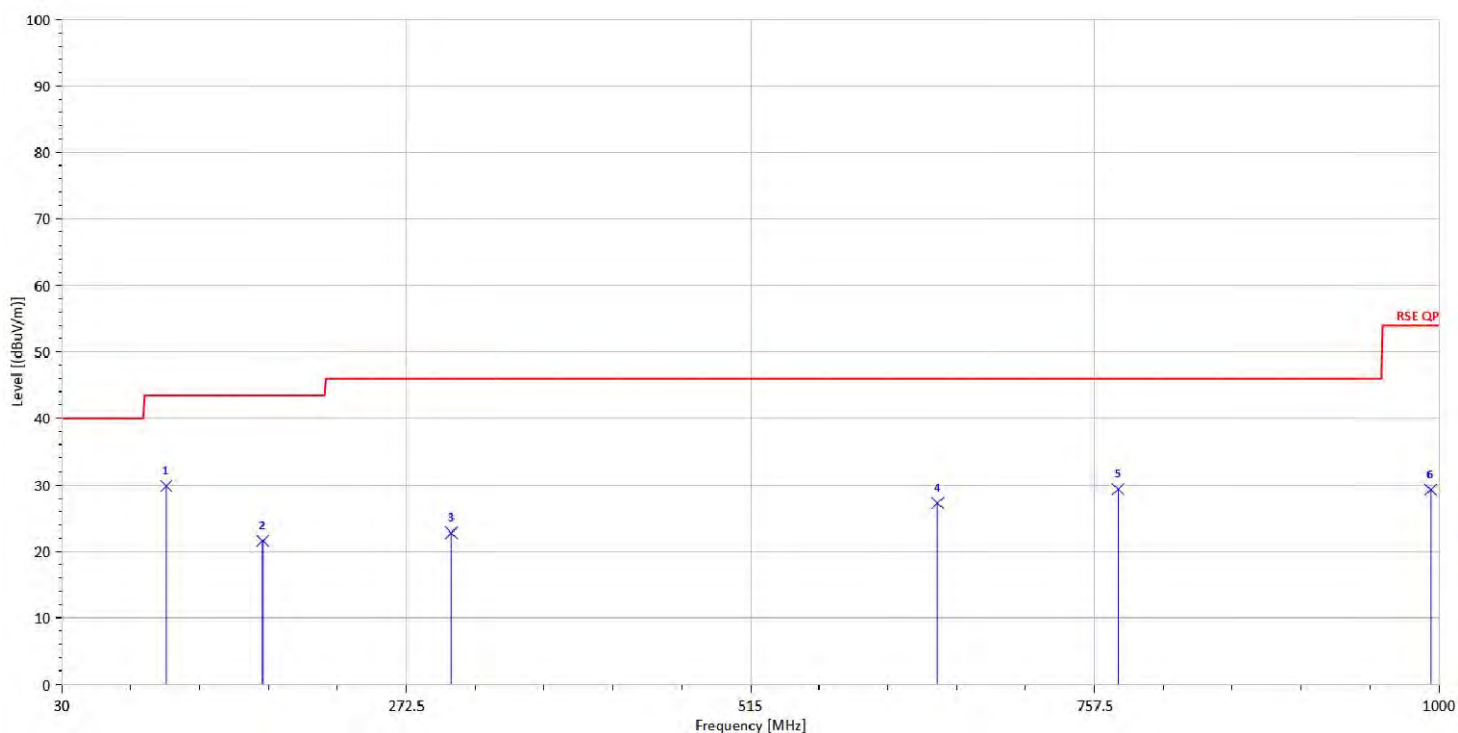
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Radiated Spurious Emission Measurement Result

Below 1GHz Worst-Case Data:

802.11a 5150~5250 MHz

Operation Mode :	802.11aB1	Test Date :	2018/2/6
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
103.72	S	Peak	47.13	-17.29	29.84	43.5	-13.66
171.62	S	Peak	39.91	-18.33	21.58	43.5	-21.92
304.51	S	Peak	35.73	-12.94	22.79	46	-23.21
646.92	S	Peak	32.22	-4.92	27.30	46	-18.70
773.99	S	Peak	34.07	-4.72	29.35	46	-16.65
994.18	S	Peak	30.05	-0.79	29.26	54	-24.74

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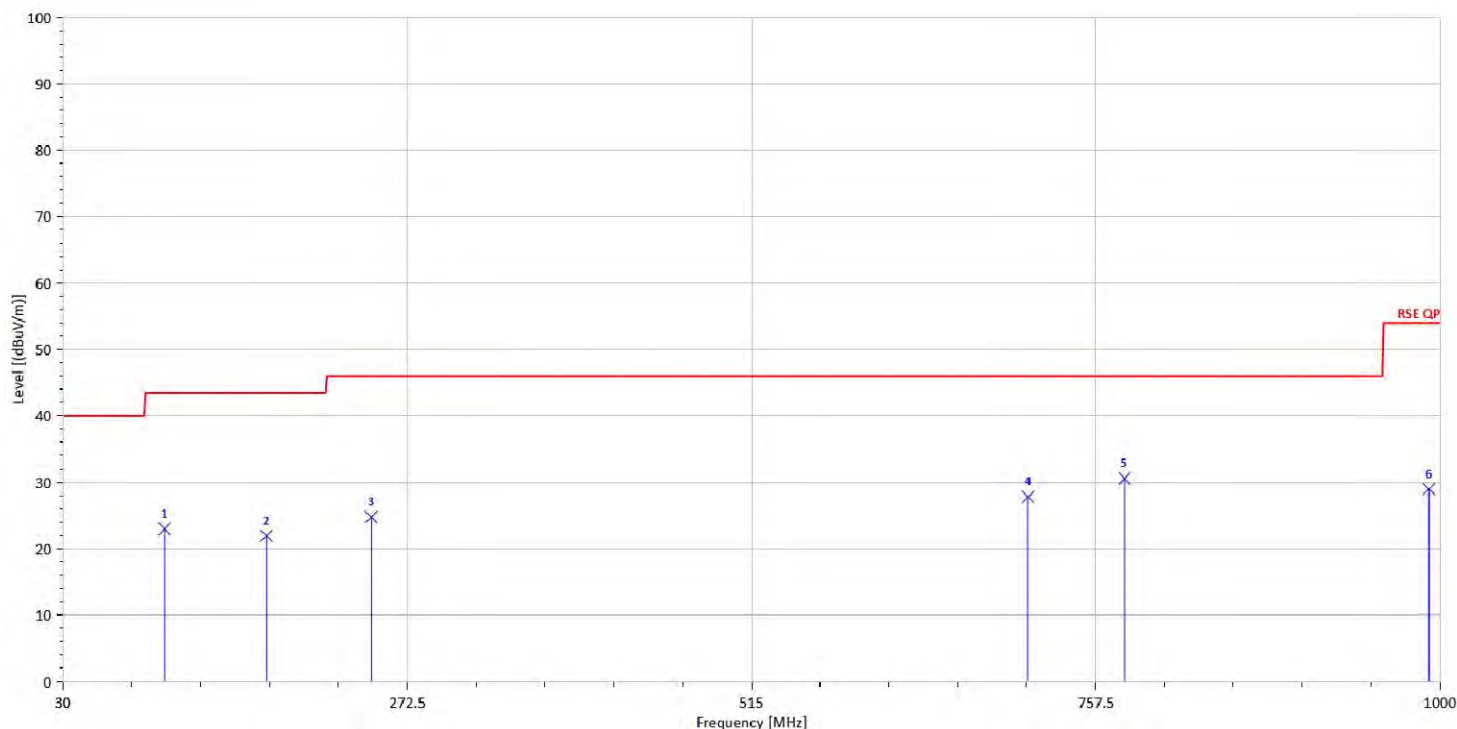
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Operation Mode :	802.11aB1	Test Date :	2018/2/6
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



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
101.78	S	Peak	40.50	-17.52	22.97	43.5	-20.53
173.56	S	Peak	40.32	-18.36	21.95	43.5	-21.55
247.28	S	Peak	39.52	-14.75	24.78	46	-21.22
709.97	S	Peak	33.07	-5.28	27.80	46	-18.20
777.87	S	Peak	35.13	-4.56	30.56	46	-15.44
992.24	S	Peak	29.71	-0.74	28.97	54	-25.03

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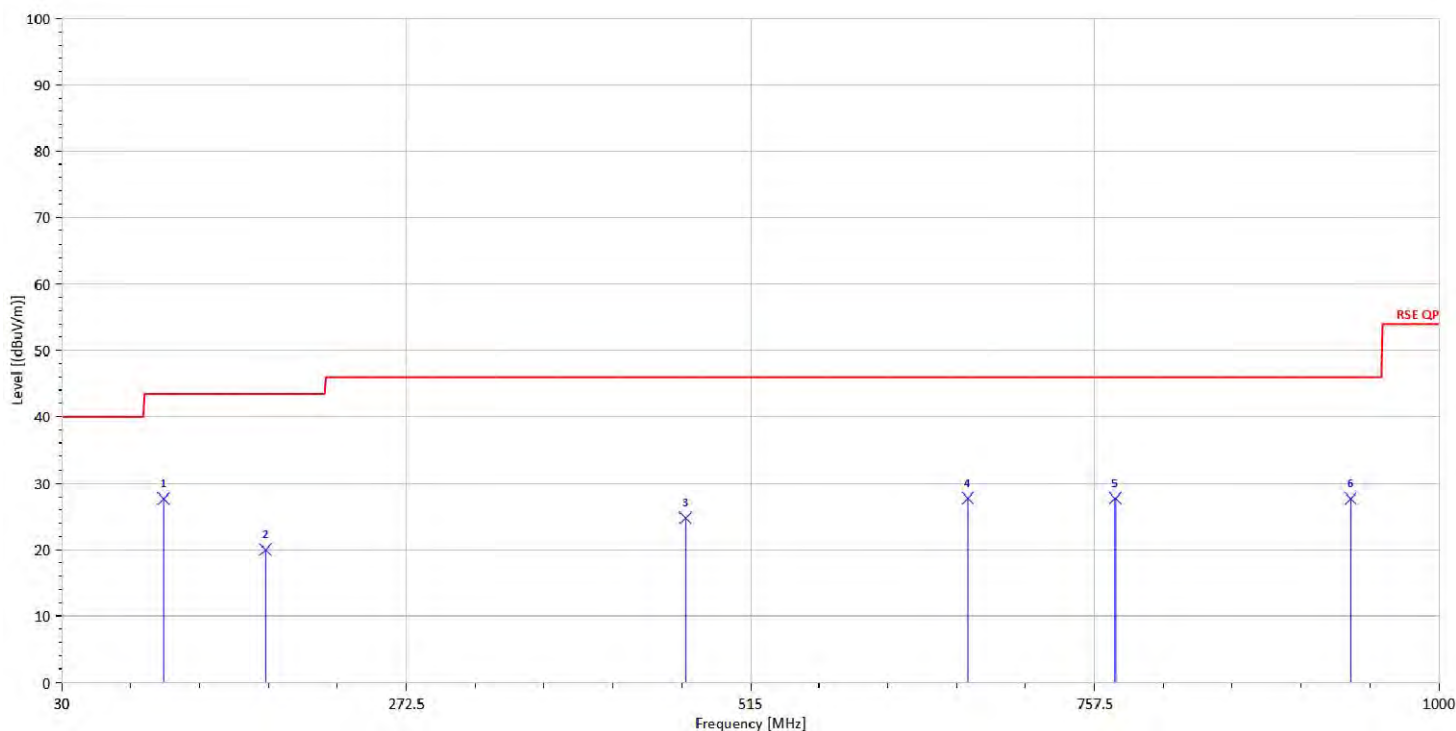
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802.11a 5250~5350 MHz

Operation Mode :	802.11aB2	Test Date :	2018/2/6
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



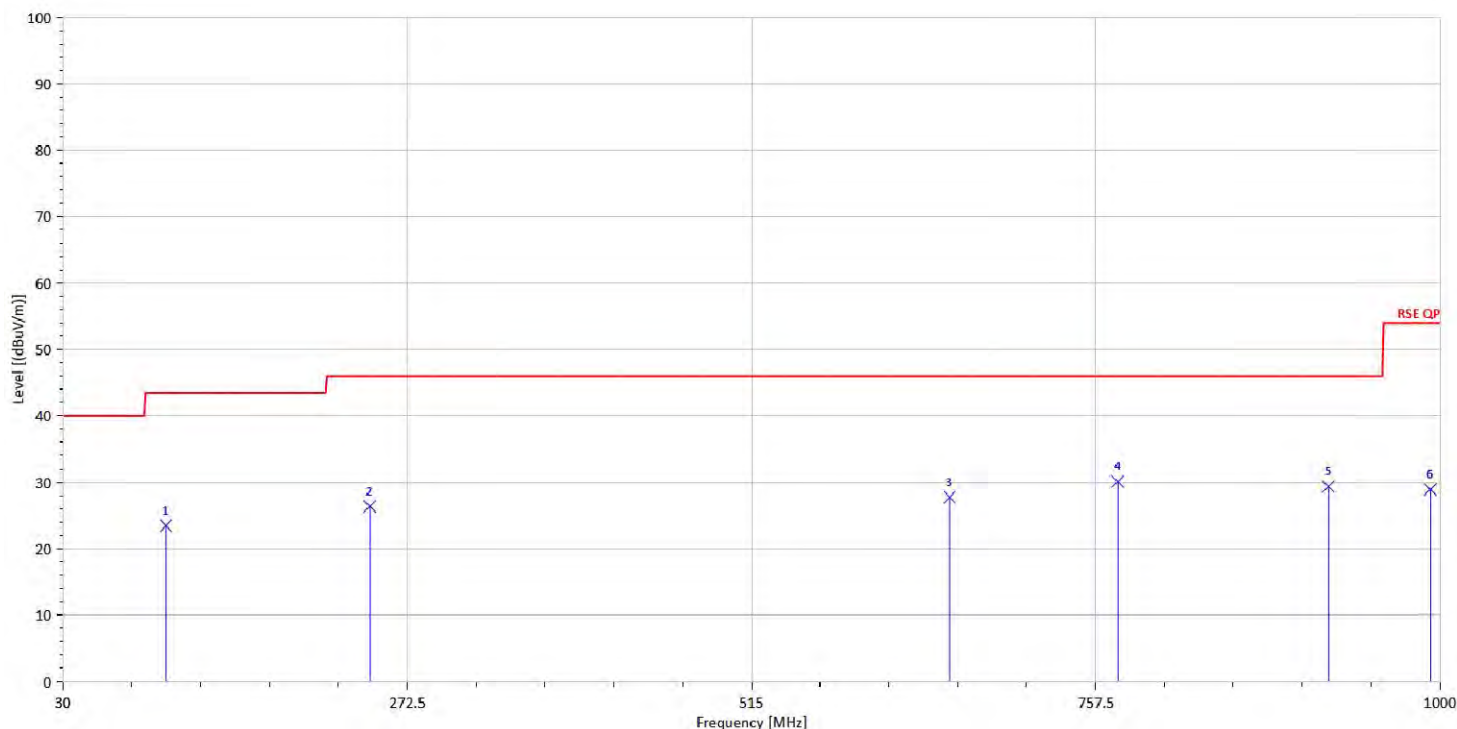
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
101.78	S	Peak	45.20	-17.52	27.68	43.5	-15.82
173.56	S	Peak	38.37	-18.36	20.00	43.5	-23.50
469.41	S	Peak	32.55	-7.76	24.78	46	-21.22
668.26	S	Peak	33.21	-5.46	27.75	46	-18.25
772.05	S	Peak	32.16	-4.41	27.75	46	-18.25
937.92	S	Peak	29.39	-1.71	27.68	46	-18.32

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Operation Mode : 802.11aB2 Test Date : 2018/2/6
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H 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	dBuV	dB	dBuV/m	dBuV/m	dB
102.75	S	Peak	40.86	-17.40	23.46	43.5	-20.04
246.31	S	Peak	41.24	-14.88	26.36	46	-19.64
654.68	S	Peak	32.93	-5.19	27.74	46	-18.26
773.02	S	Peak	34.70	-4.59	30.11	46	-15.89
921.43	S	Peak	31.15	-1.80	29.35	46	-16.65
993.21	S	Peak	29.75	-0.84	28.91	54	-25.09

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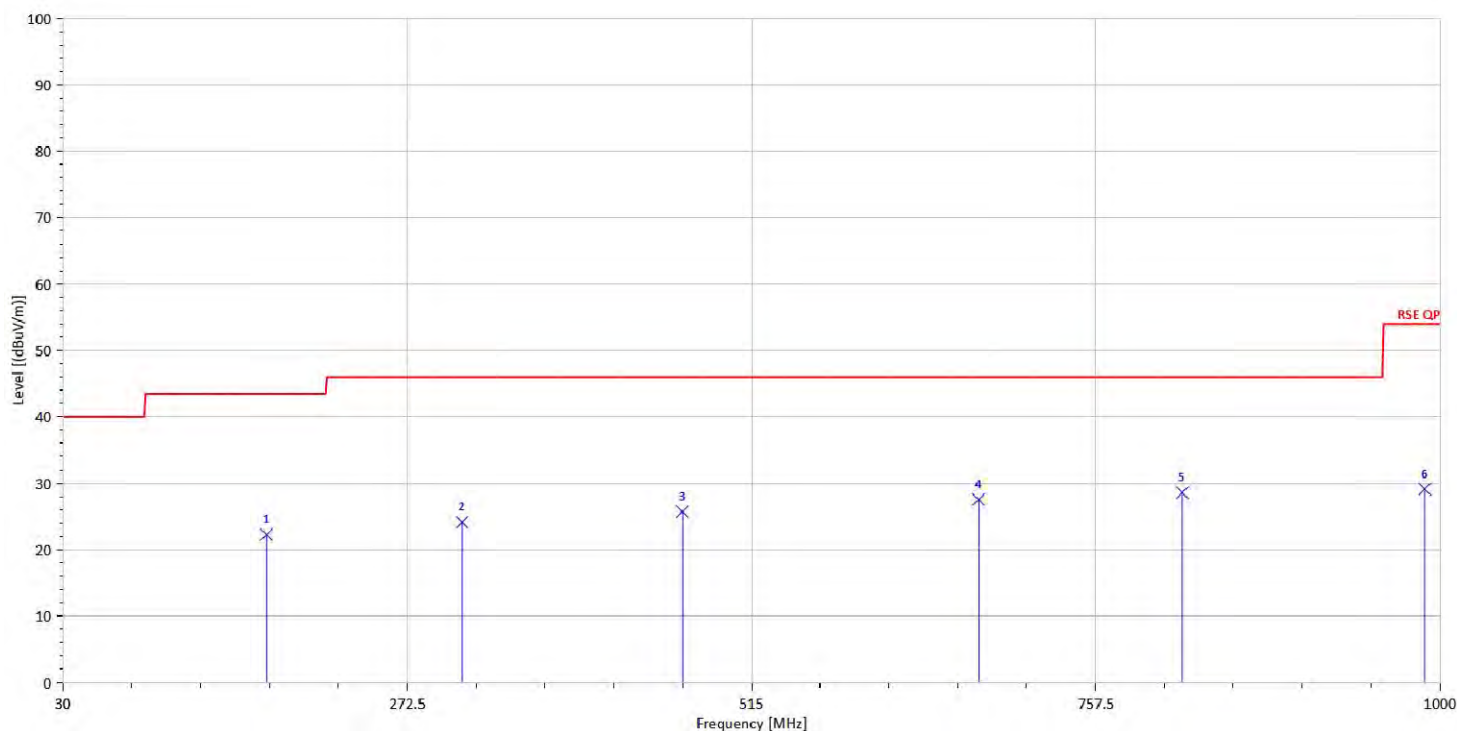
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802.11a, 5470~5725 MHz

Operation Mode :	802.11aB3	Test Date :	2018/2/6
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	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	dBuV	dB	dBuV/m	dBuV/m	dB
173.56	S	Peak	40.65	-18.36	22.28	43.5	-21.22
311.30	S	Peak	36.70	-12.57	24.13	46	-21.87
466.50	S	Peak	33.66	-7.93	25.73	46	-20.27
675.05	S	Peak	33.03	-5.48	27.55	46	-18.45
818.61	S	Peak	31.59	-3.02	28.58	46	-17.42
989.33	S	Peak	29.78	-0.66	29.12	54	-24.88

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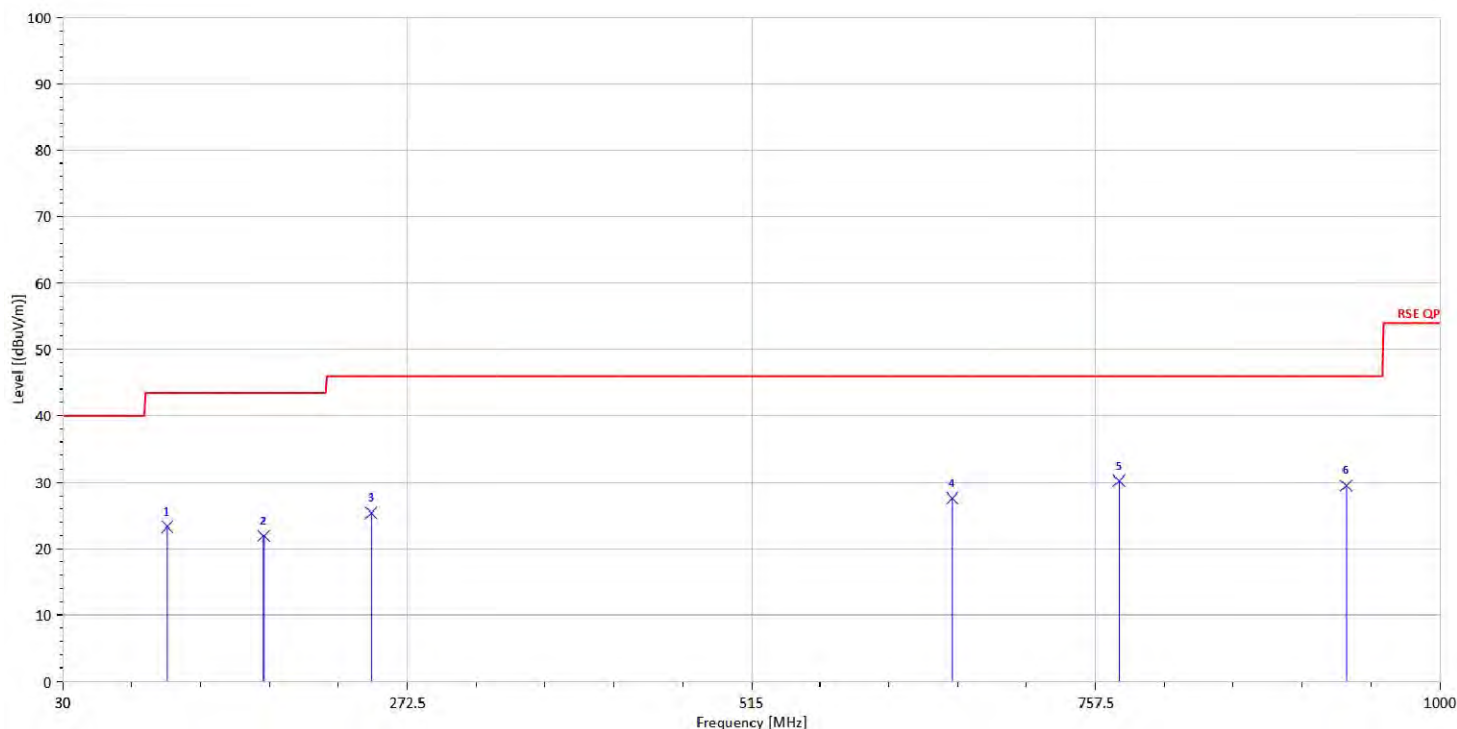
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Operation Mode : 802.11aB3 Test Date : 2018/2/7
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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
103.72	S	Peak	40.60	-17.29	23.32	43.5	-20.18
171.62	S	Peak	40.27	-18.33	21.94	43.5	-21.56
247.28	S	Peak	40.12	-14.75	25.38	46	-20.62
656.62	S	Peak	32.57	-4.96	27.61	46	-18.39
773.99	S	Peak	34.95	-4.72	30.23	46	-15.77
934.04	S	Peak	31.07	-1.58	29.49	46	-16.51

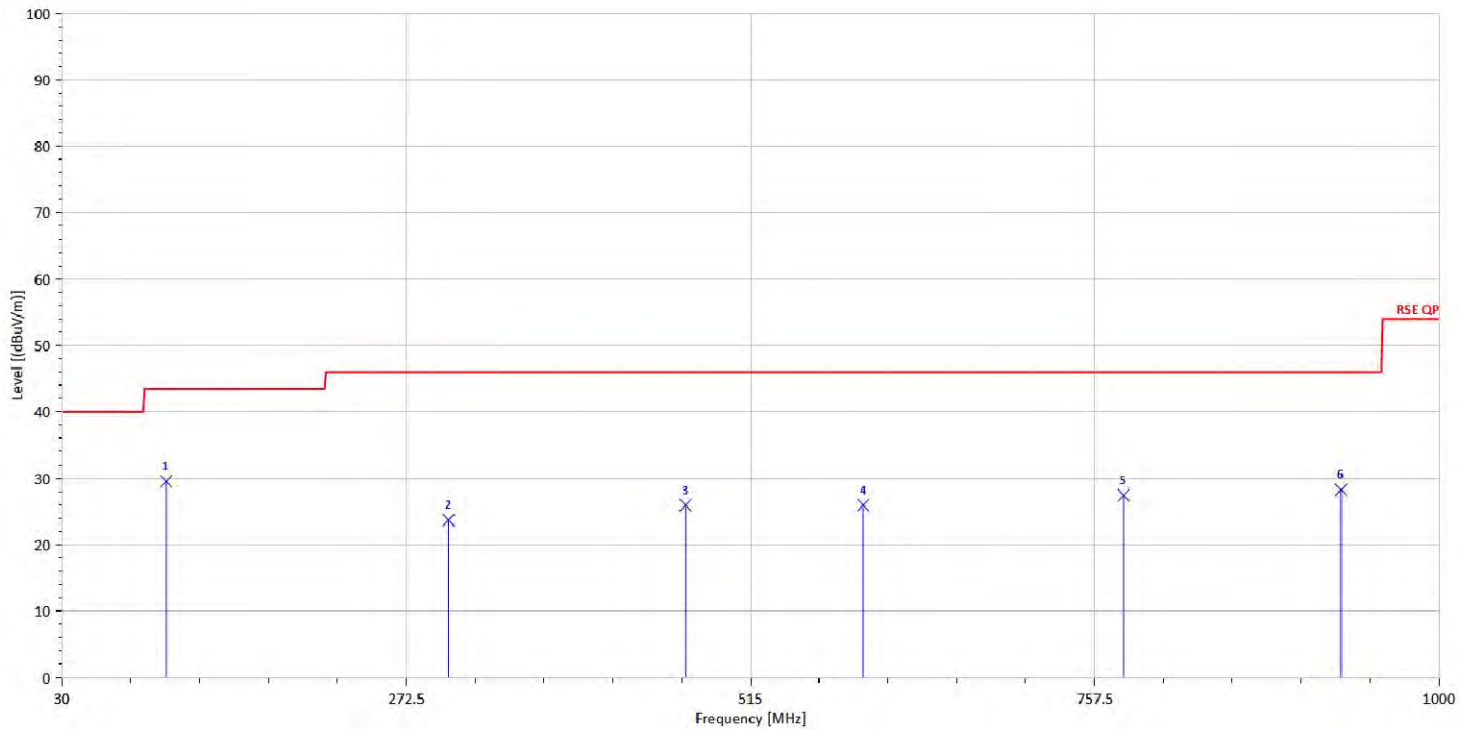
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802.11a, 5725~5850 MHz

Operation Mode :	802.11aB4	Test Date :	2018/2/6
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	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	dBuV	dB	dBuV/m	dBuV/m	dB
103.72	S	Peak	46.83	-17.29	29.54	43.5	-13.96
302.57	S	Peak	36.76	-13.06	23.70	46	-22.30
469.41	S	Peak	33.72	-7.76	25.96	46	-20.04
594.54	S	Peak	31.71	-5.76	25.95	46	-20.05
777.87	S	Peak	32.00	-4.56	27.44	46	-18.56
931.13	S	Peak	29.96	-1.70	28.26	46	-17.74

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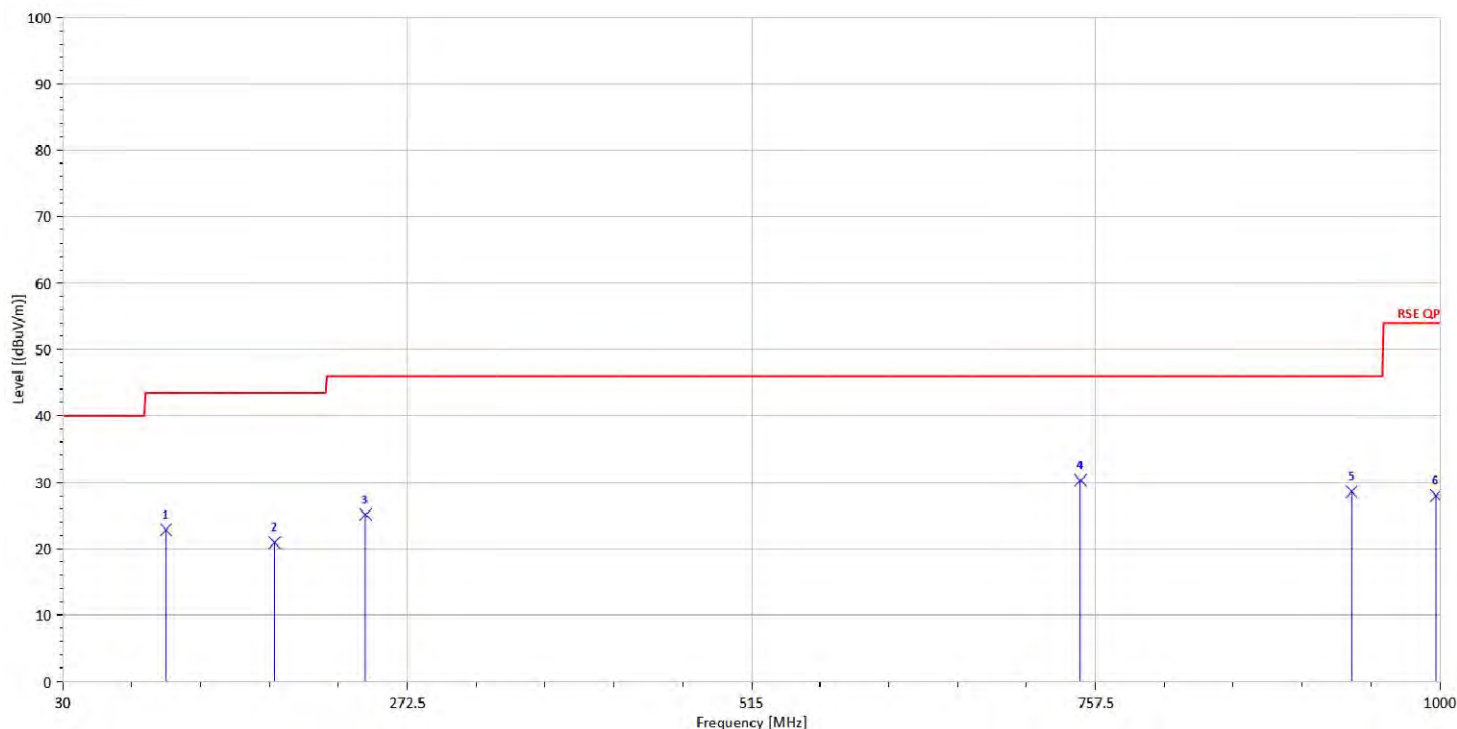
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Operation Mode : 802.11aB4 Test Date : 2018/2/7
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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
102.75	S	Peak	40.24	-17.40	22.84	43.5	-20.66
179.38	S	Peak	39.62	-18.71	20.91	43.5	-22.59
243.40	S	Peak	40.22	-15.07	25.15	46	-20.85
746.83	S	Peak	34.53	-4.23	30.30	46	-15.70
937.92	S	Peak	30.30	-1.71	28.58	46	-17.42
997.09	S	Peak	28.65	-0.66	27.99	54	-26.01

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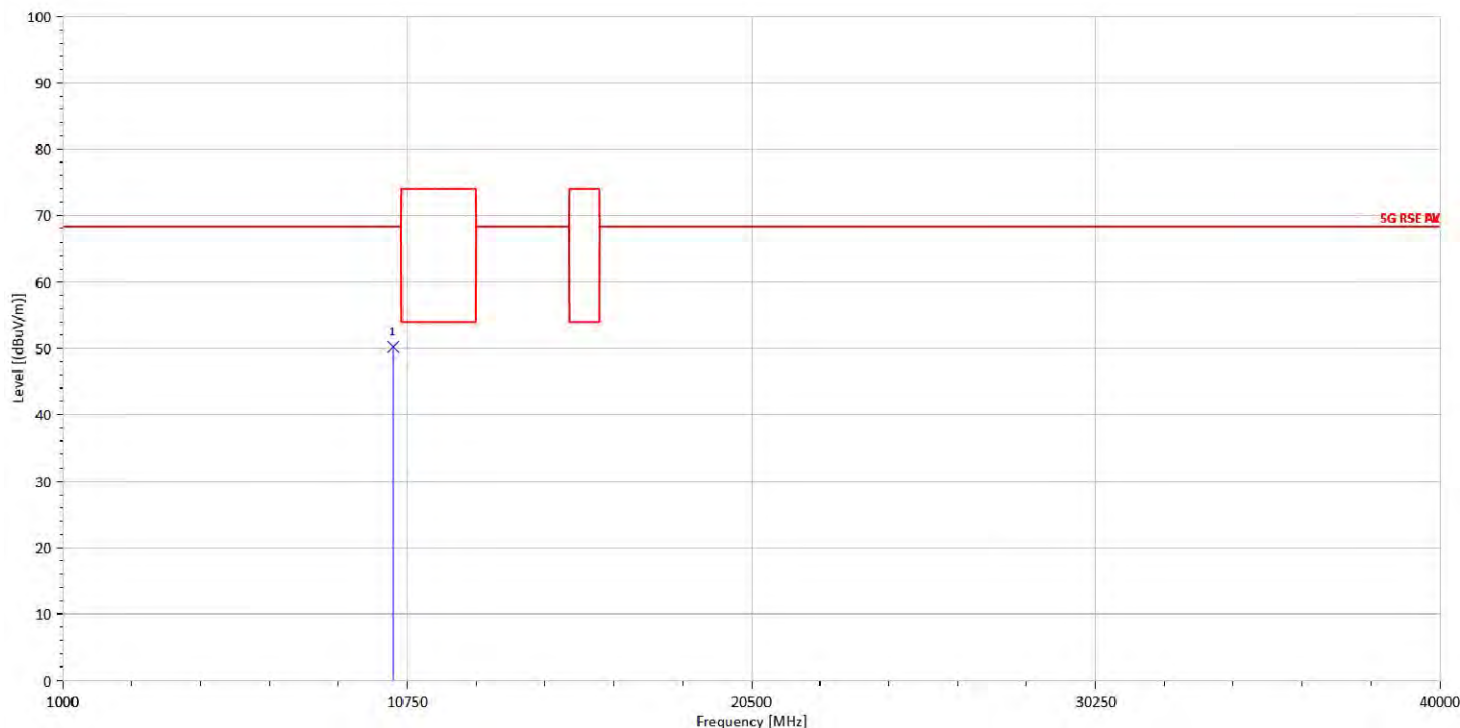
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Above 1GHz Worst-Case Data:

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

Operation Mode :	802.11aB1	Test Date :	2018/1/16
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



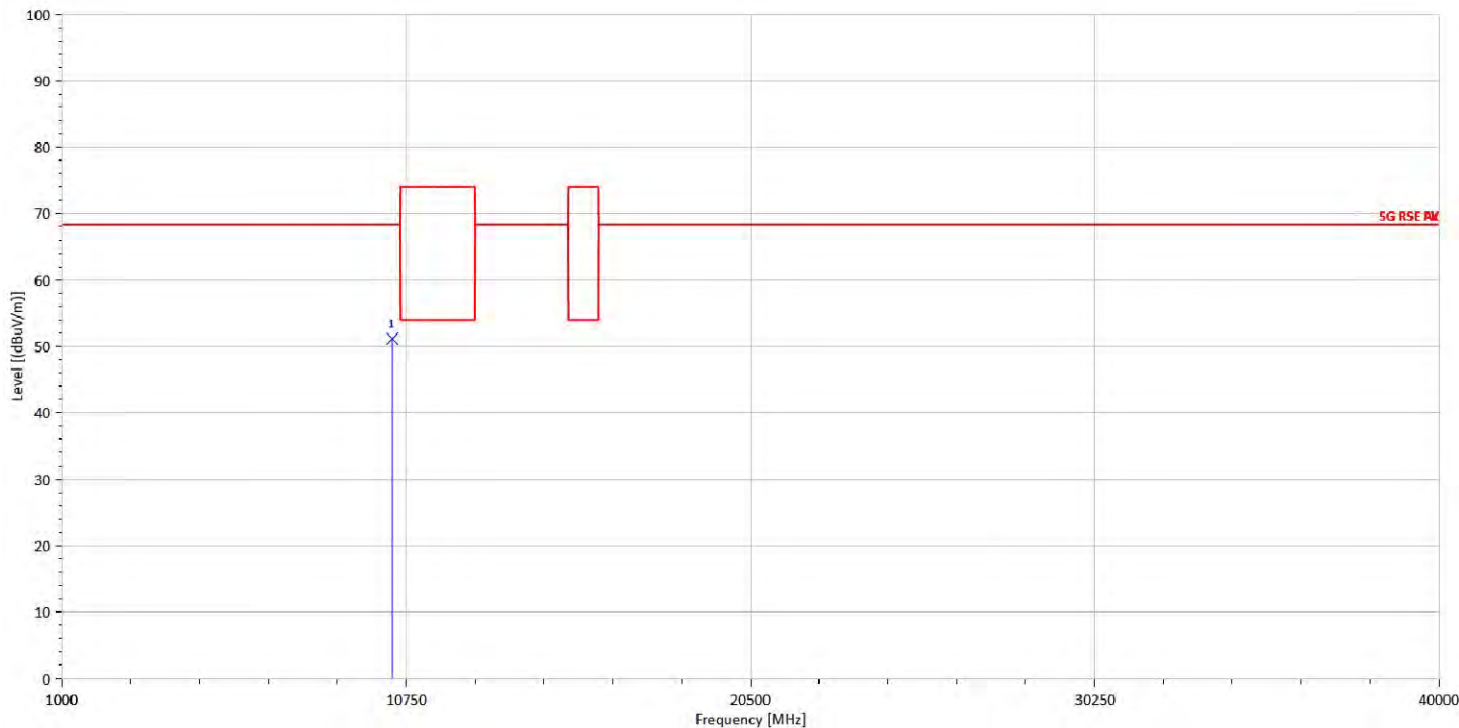
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
10360.00	H	Peak	30.06	20.18	50.23	68.3	-18.07

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Operation Mode : 802.11aB1 Test Date : 2018/1/16
Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Horizontal



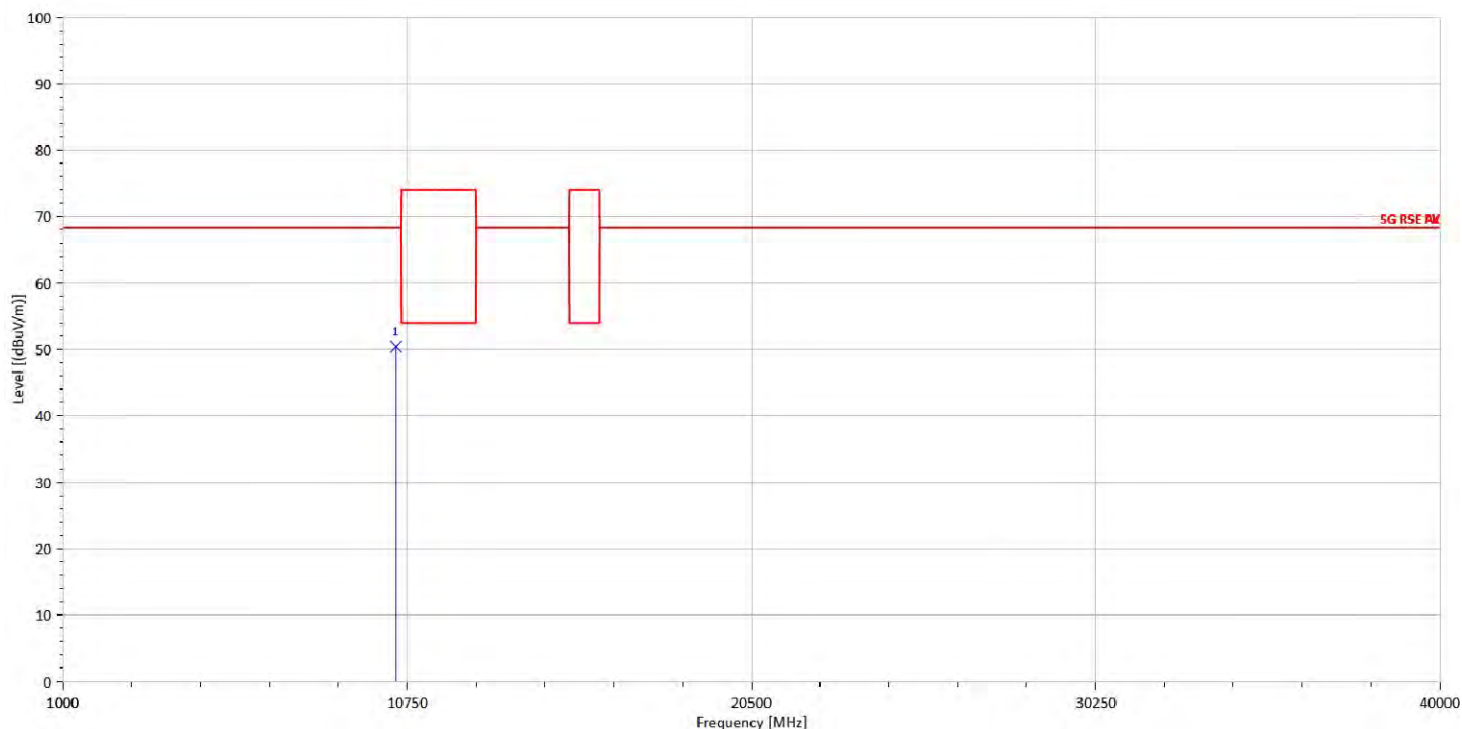
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	H	Peak	30.97	20.18	51.15	68.3	-17.15

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Operation Mode :	802.11aB1	Test Date :	2018/1/16
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



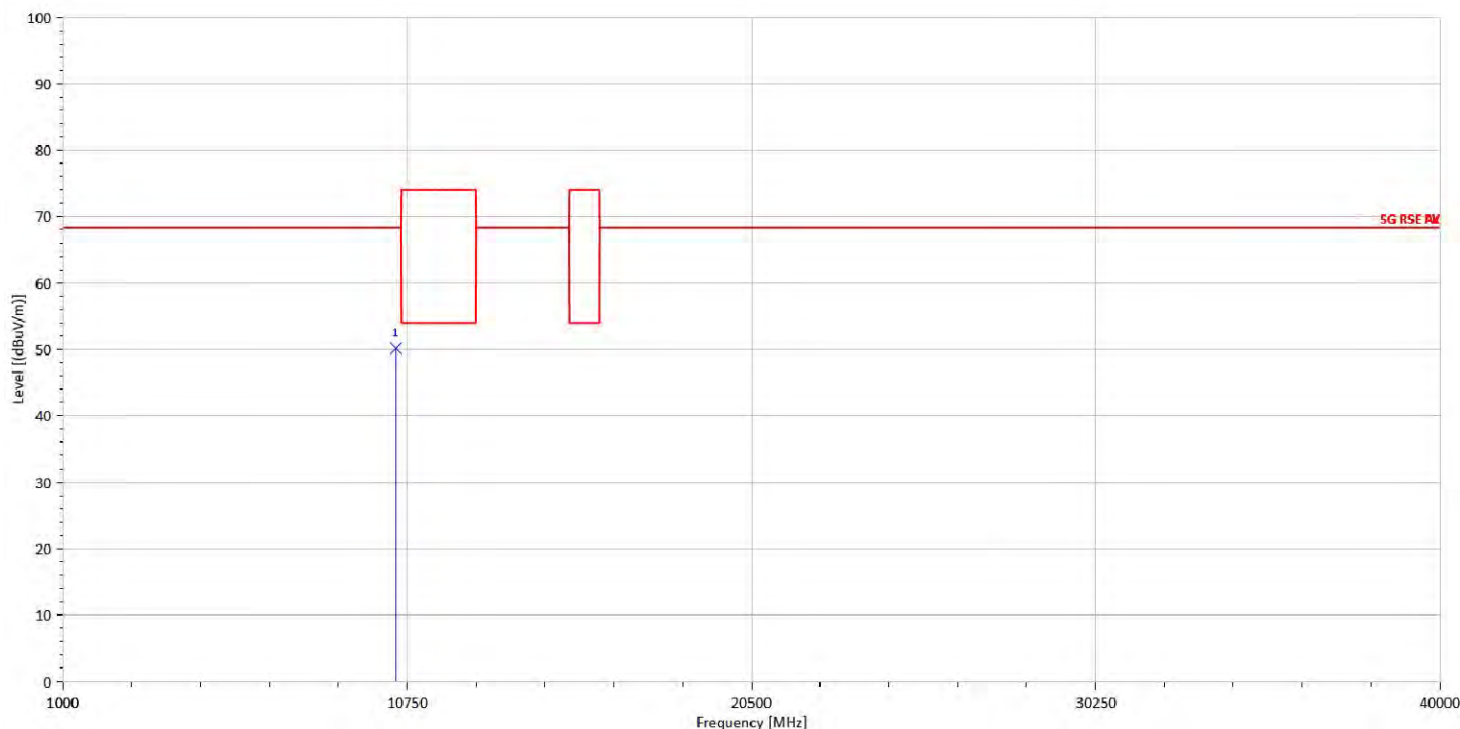
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
10440.00	H	Peak	30.13	20.29	50.42	68.3	-17.88

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Operation Mode :	802.11aB1	Test Date :	2018/1/16
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



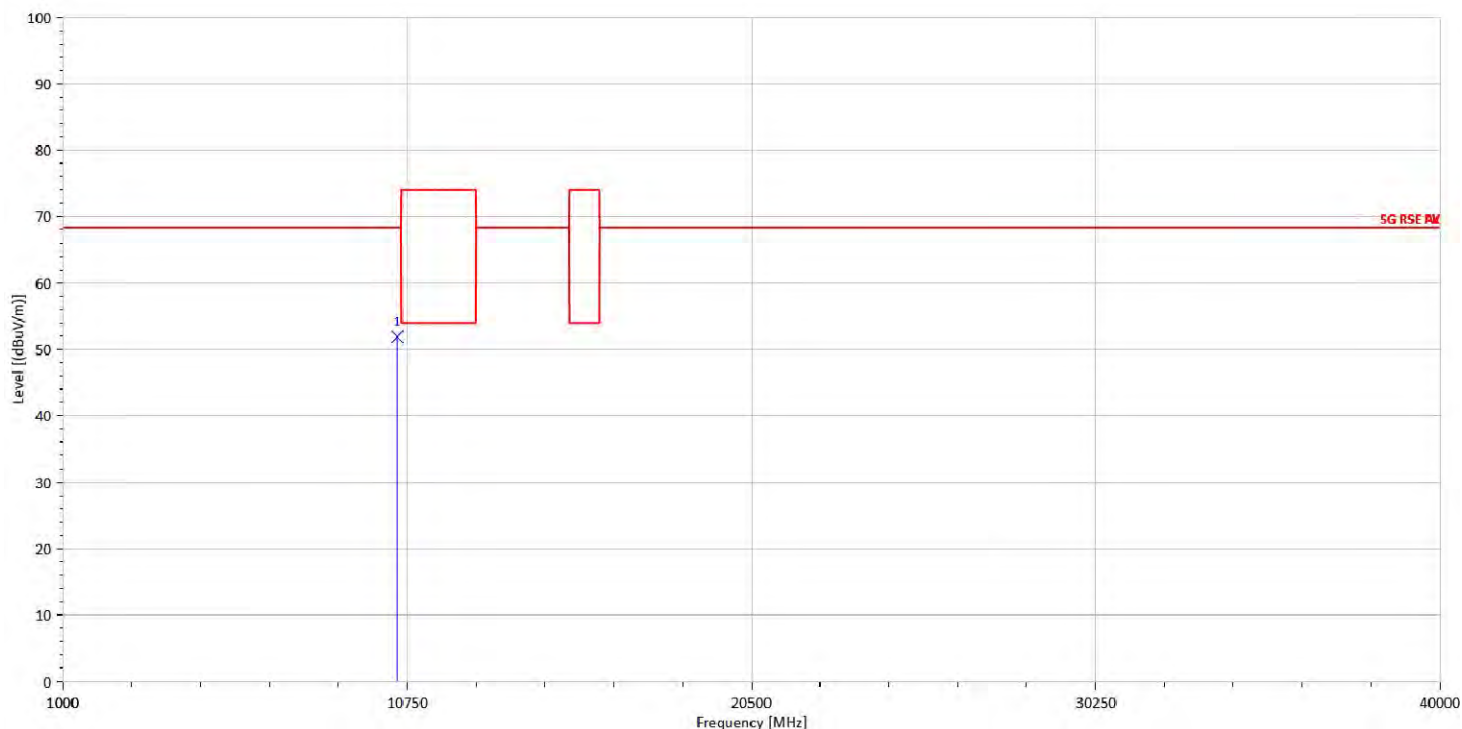
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
10440.00	H	Peak	29.88	20.29	50.17	68.3	-18.13

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Operation Mode : 802.11aB1 Test Date : 2018/1/16
 Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



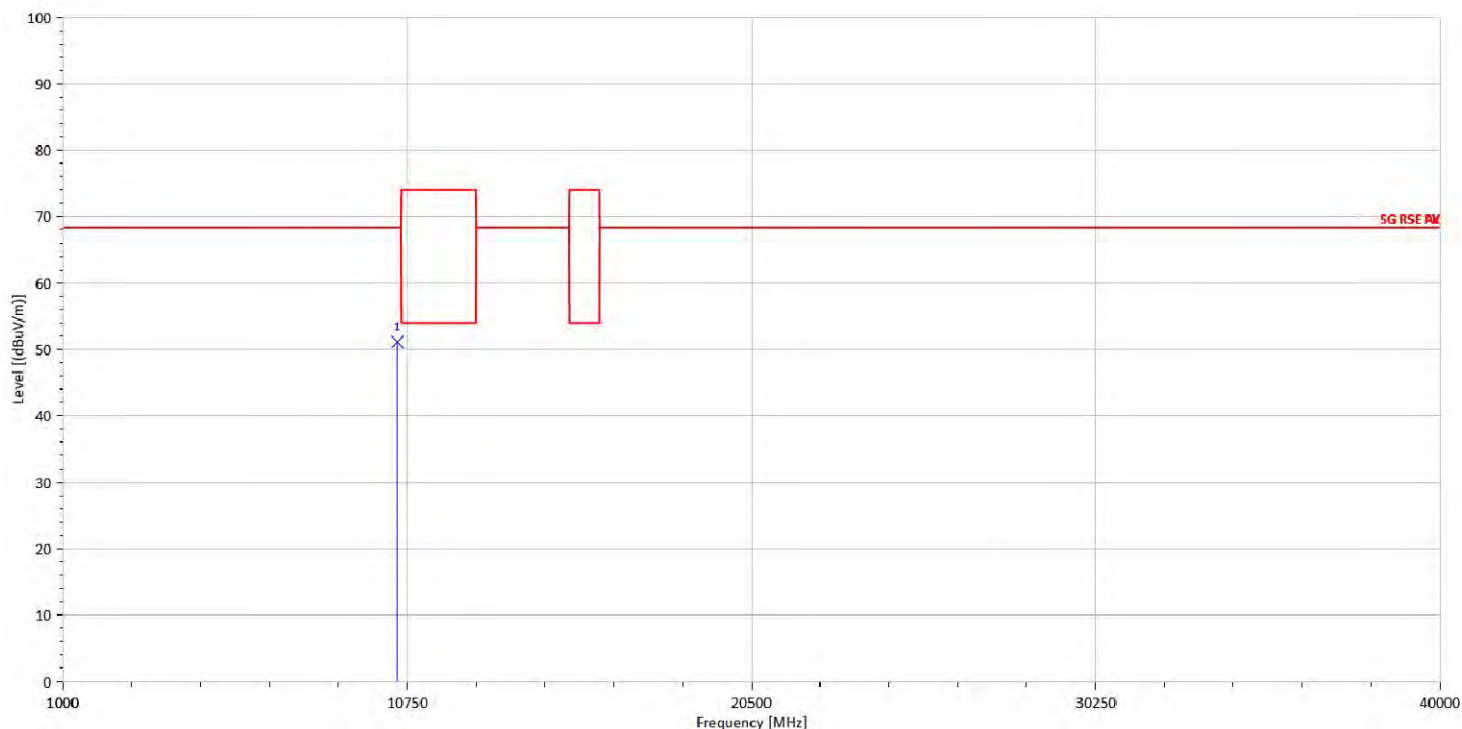
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10480.00	H	Peak	31.22	20.68	51.90	68.3	-16.40

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Operation Mode : 802.11aB1 Test Date : 2018/1/16
 Fundamental Frequency : 5240 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
10480.00	H	Peak	30.45	20.68	51.12	68.3	-17.18

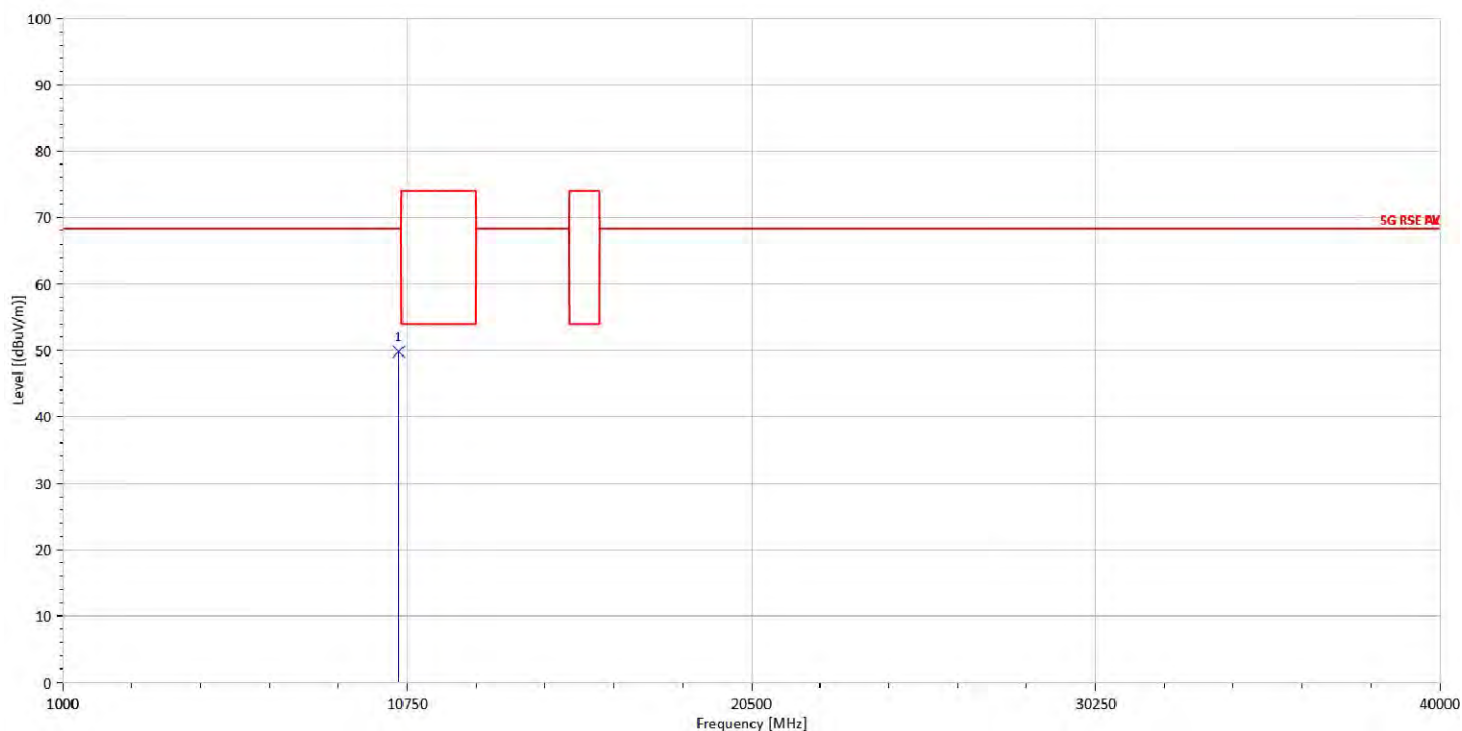
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Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Mode :	802.11aB2	Test Date :	2018/1/16
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



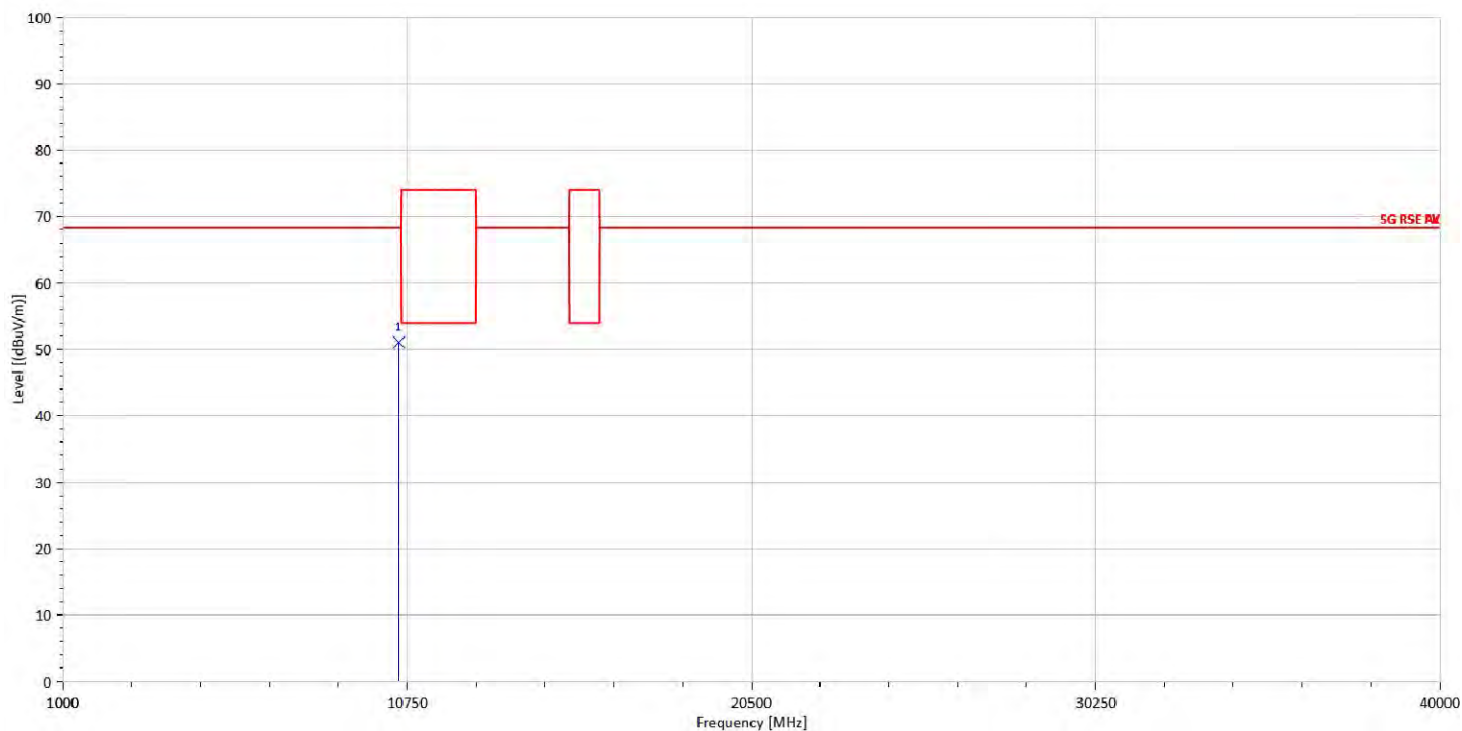
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
10520.00	H	Peak	29.72	20.10	49.82	68.3	-18.48

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Operation Mode :	802.11aB2	Test Date :	2018/1/16
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



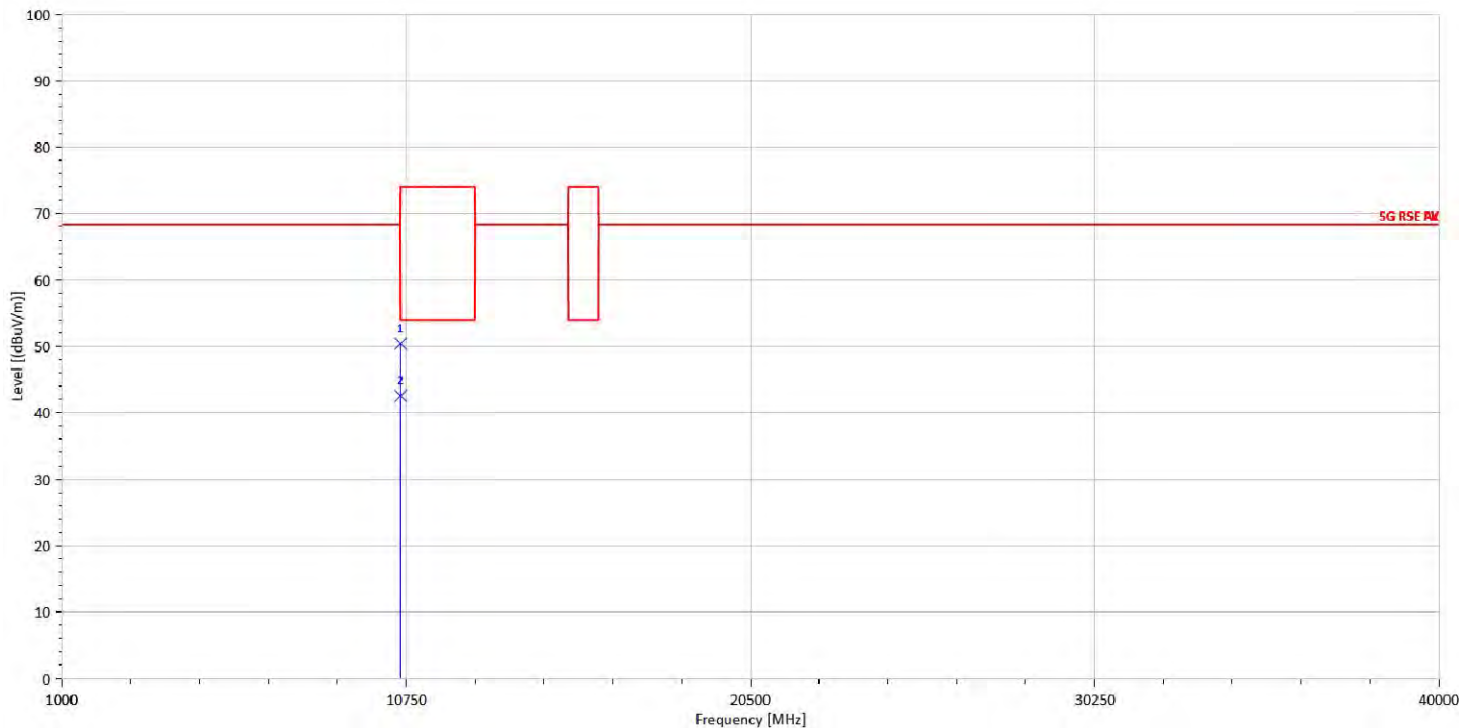
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
10520.00	H	Peak	30.98	20.10	51.08	68.3	-17.22

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Operation Mode :	802.11aB2	Test Date :	2018/1/16
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	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
10600.00	H	Peak	30.27	20.17	50.44	74	-23.56
10600.00	H	Average	22.36	20.17	42.53	54	-11.47

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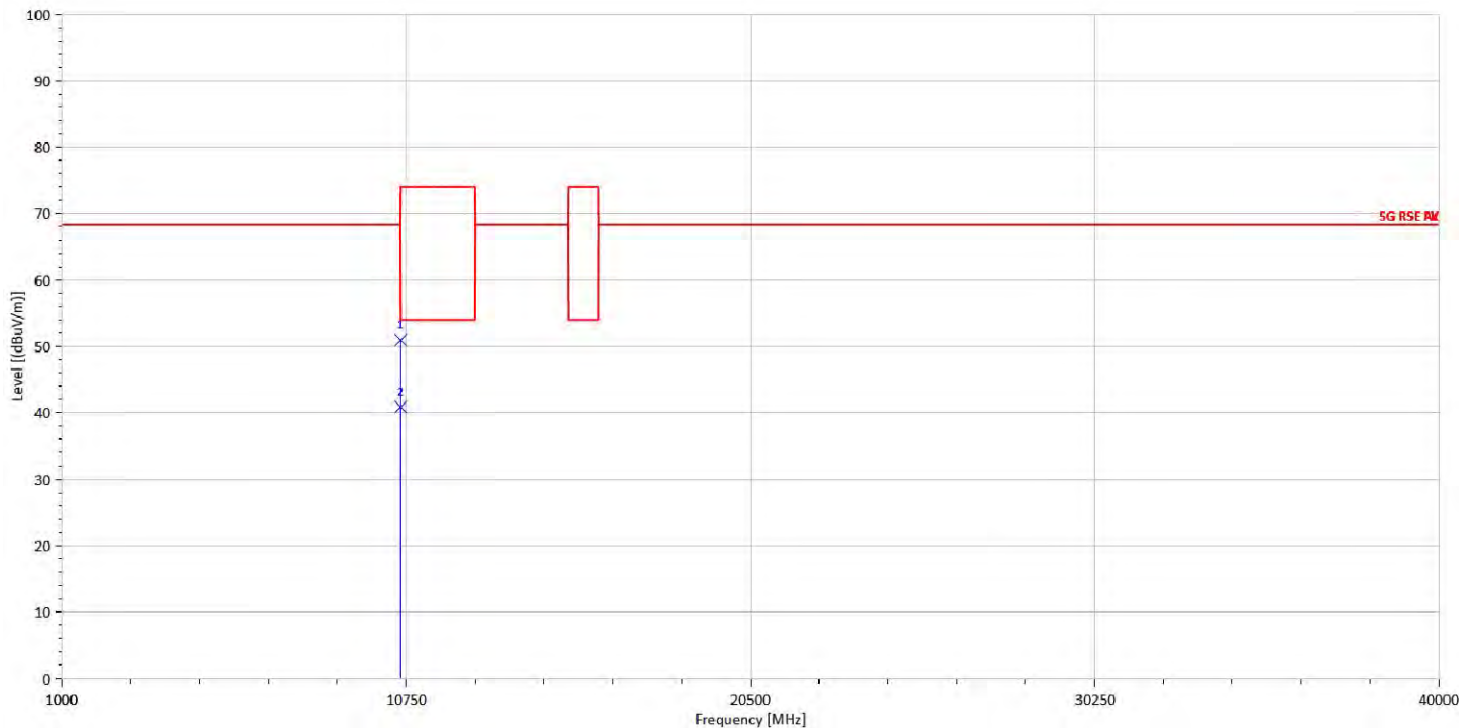
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Operation Mode :	802.11aB2	Test Date :	2018/1/16
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



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
10600.00	H	Peak	30.78	20.17	50.95	74	-23.05
10600.00	H	Average	20.71	20.17	40.88	54	-13.12

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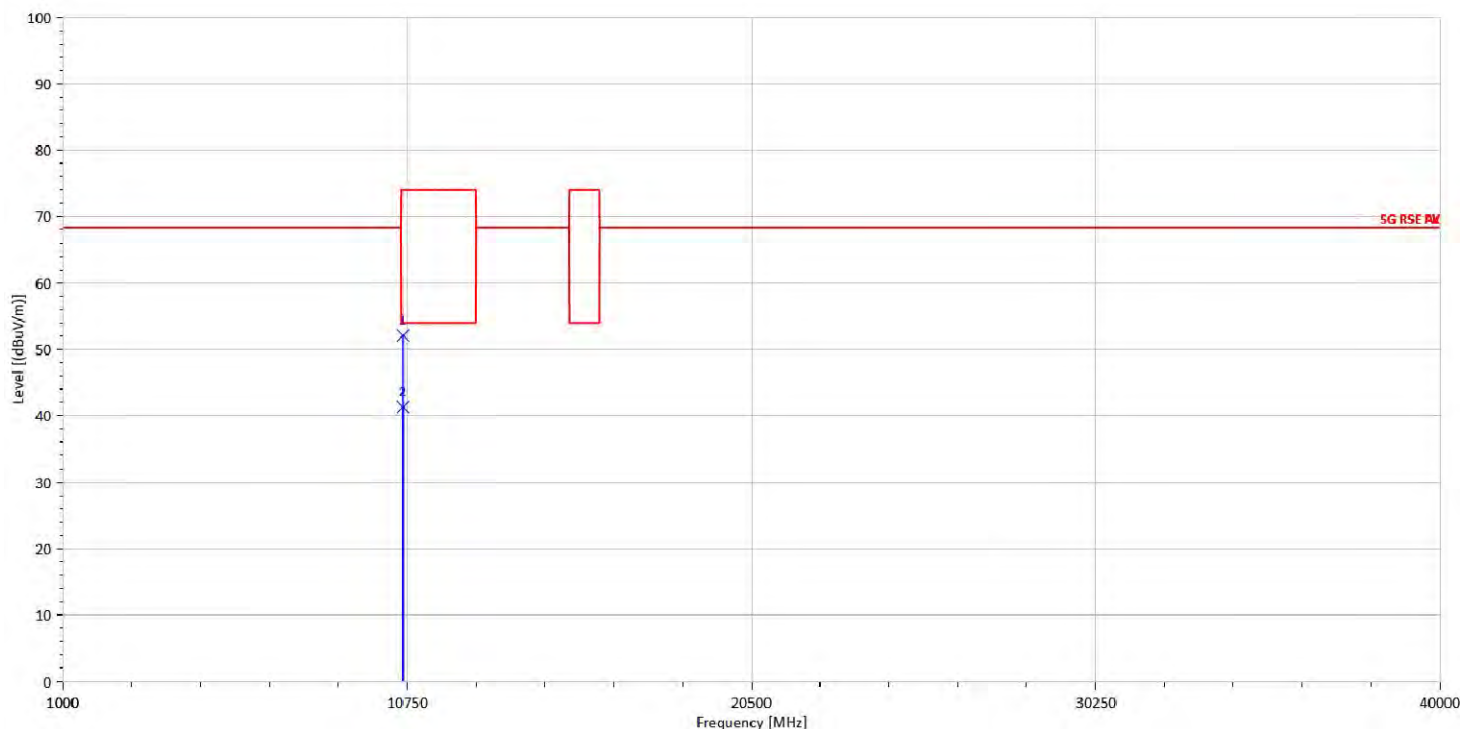
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Operation Mode :	802.11aB2	Test Date :	2018/1/16
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



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	
10640.00	H	Peak	31.75	20.34	52.10	74	-21.90
10640.00	H	Average	20.98	20.34	41.32	54	-12.68

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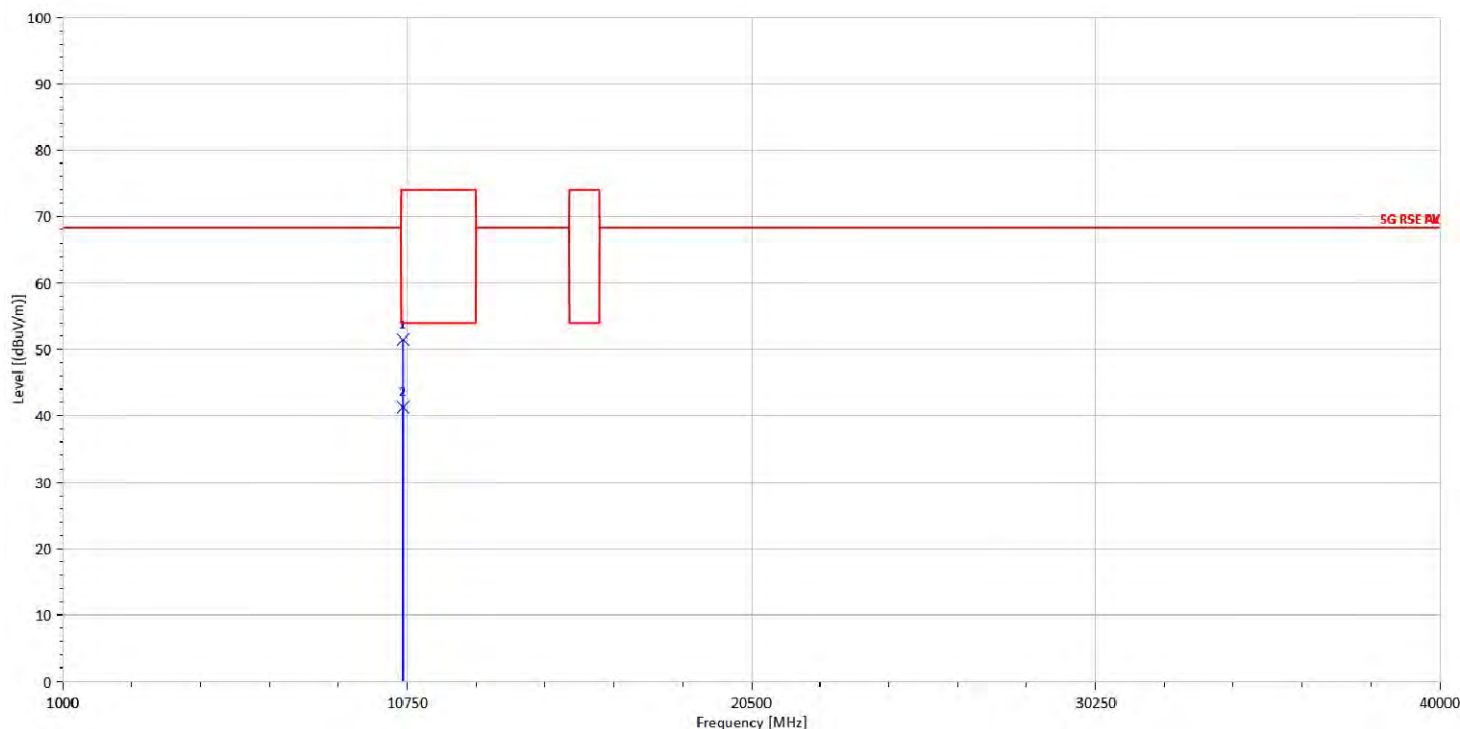
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Operation Mode :	802.11aB2	Test Date :	2018/1/16
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



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	
10640.00	H	Peak	31.13	20.34	51.47	74	-22.53
10640.00	H	Average	20.95	20.34	41.29	54	-12.71

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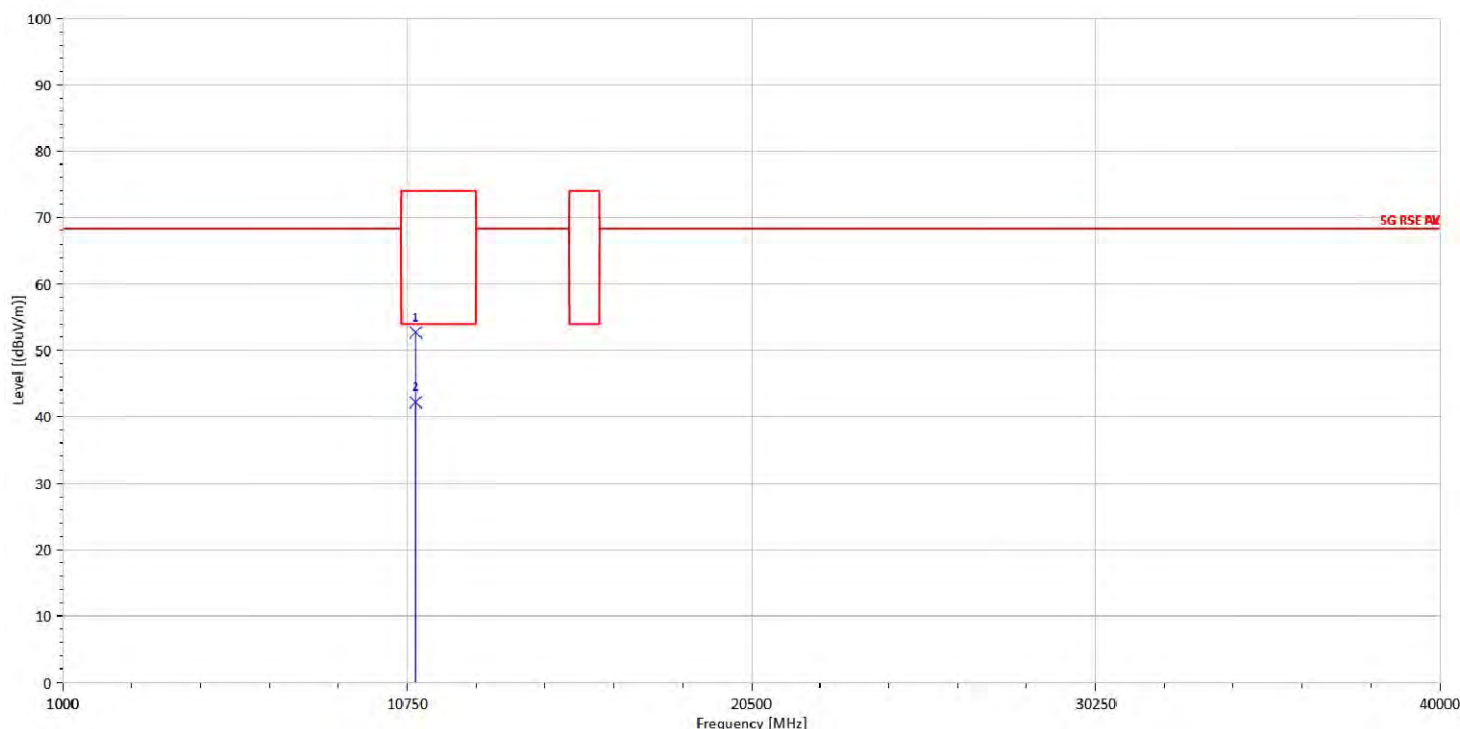
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Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Mode :	802.11aB3	Test Date :	2018/1/16
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11000.00	H	Peak	30.61	22.11	52.72	74	-21.28
11000.00	H	Average	20.09	22.11	42.20	54	-11.80

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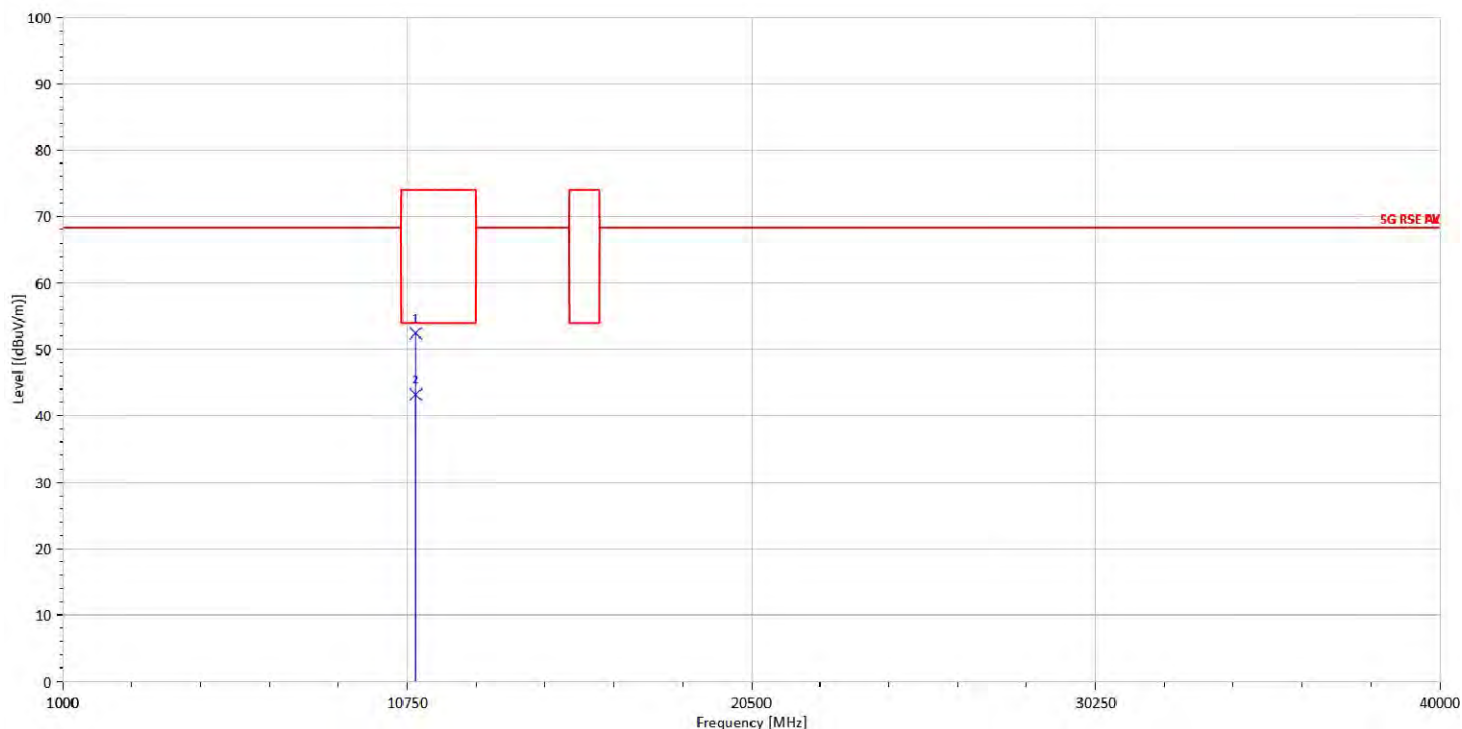
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Operation Mode :	802.11aB3	Test Date :	2018/1/16
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



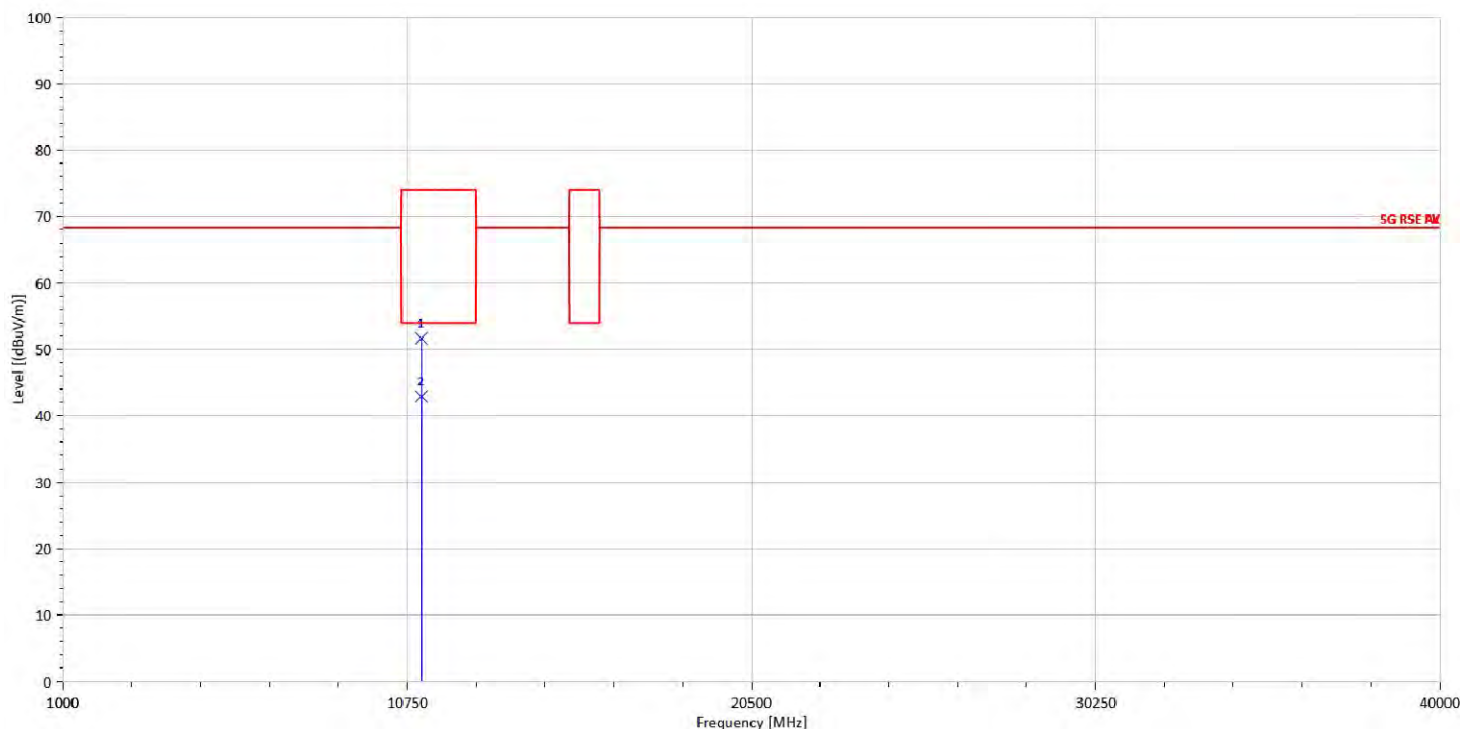
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11000.00	H	Peak	30.33	22.11	52.44	74	-21.56
11000.00	H	Average	21.12	22.11	43.23	54	-10.77

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Operation Mode :	802.11aB3	Test Date :	2018/1/16
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



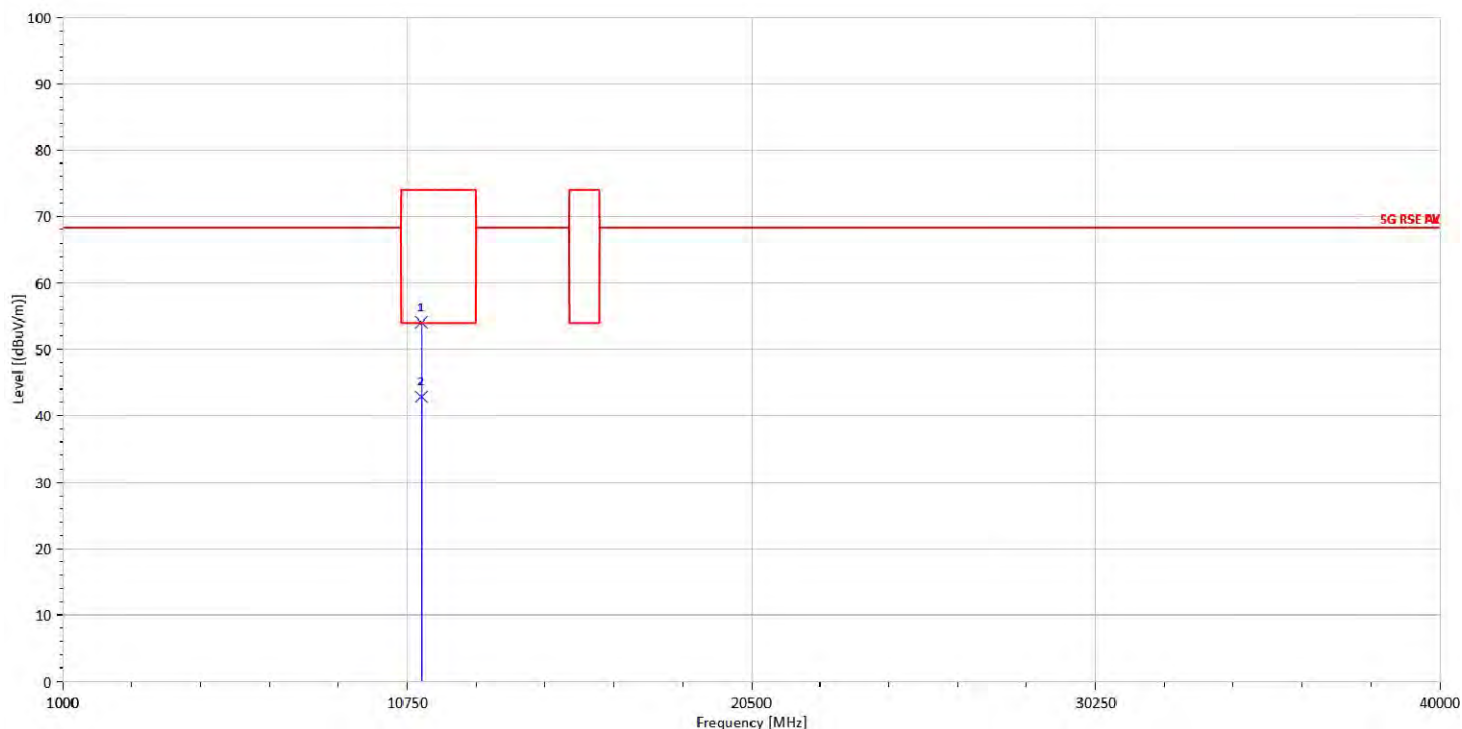
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11160.00	H	Peak	29.62	22.04	51.66	74	-22.34
11160.00	H	Average	20.88	22.04	42.92	54	-11.08

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Operation Mode :	802.11aB3	Test Date :	2018/1/16
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



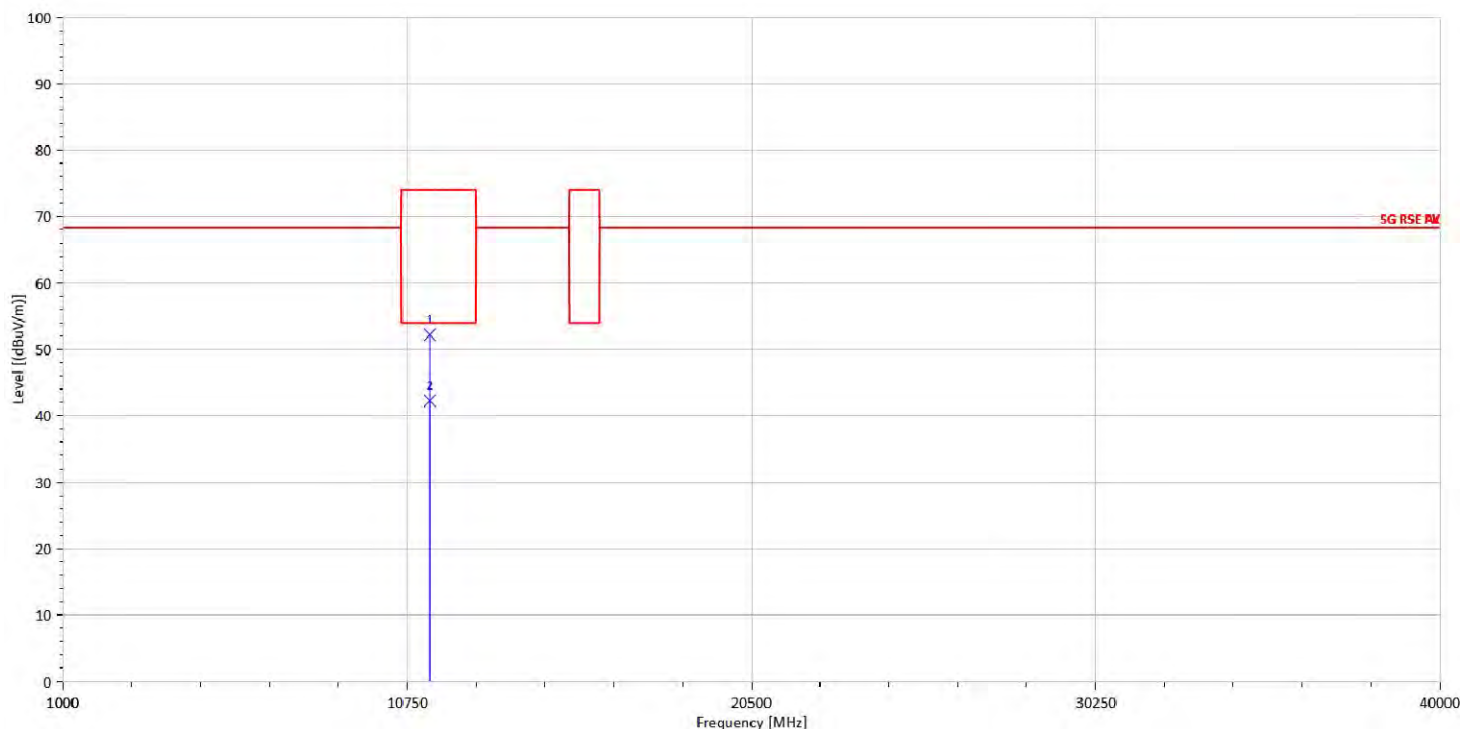
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11160.00	H	Peak	32.03	22.04	54.07	74	-19.93
11160.00	H	Average	20.85	22.04	42.89	54	-11.11

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Operation Mode :	802.11aB3	Test Date :	2018/1/16
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



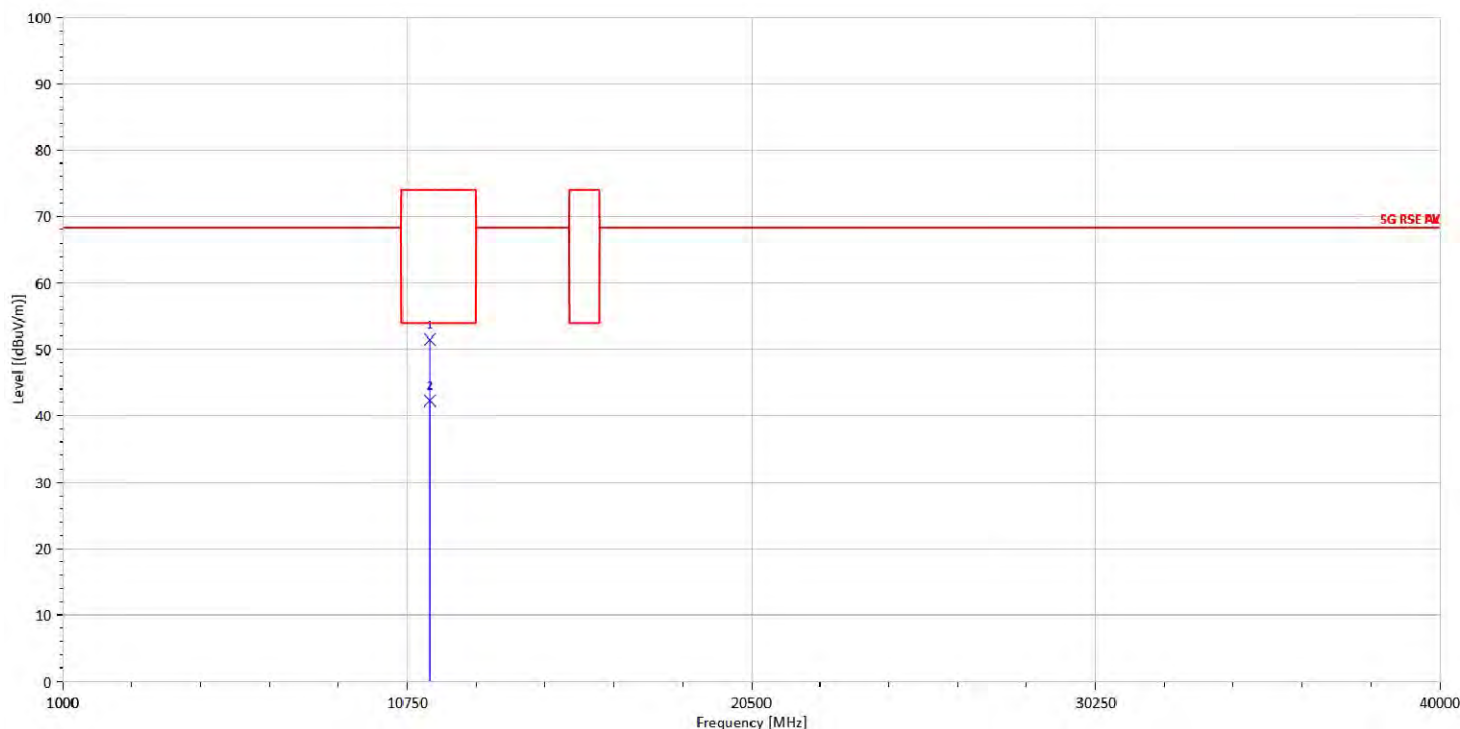
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11400.00	H	Peak	30.99	21.22	52.21	74	-21.79
11400.00	H	Average	21.06	21.22	42.28	54	-11.72

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Operation Mode :	802.11aB3	Test Date :	2018/1/16
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	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	
11400.00	H	Peak	30.27	21.22	51.49	74	-22.51
11400.00	H	Average	21.07	21.22	42.29	54	-11.71

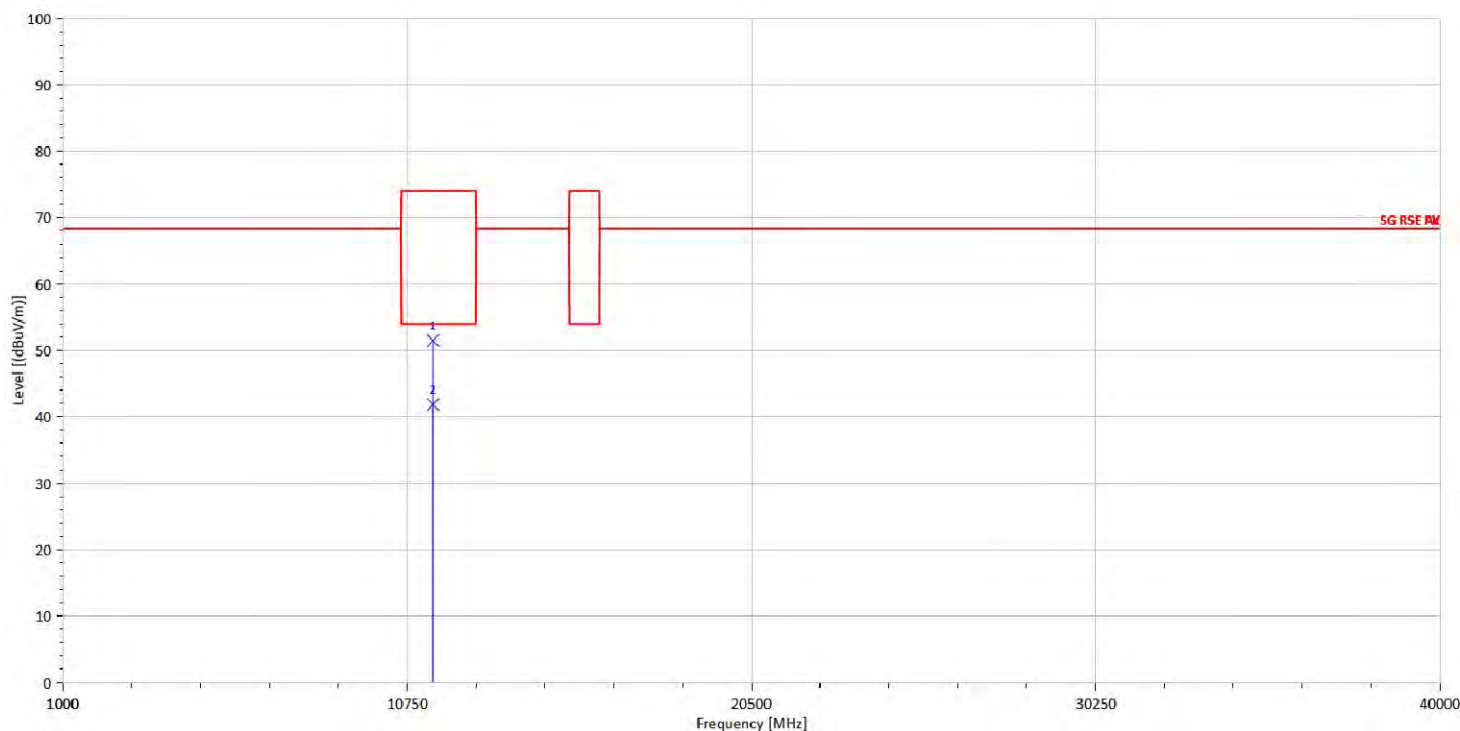
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Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode :	802.11aB4	Test Date :	2018/1/16
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



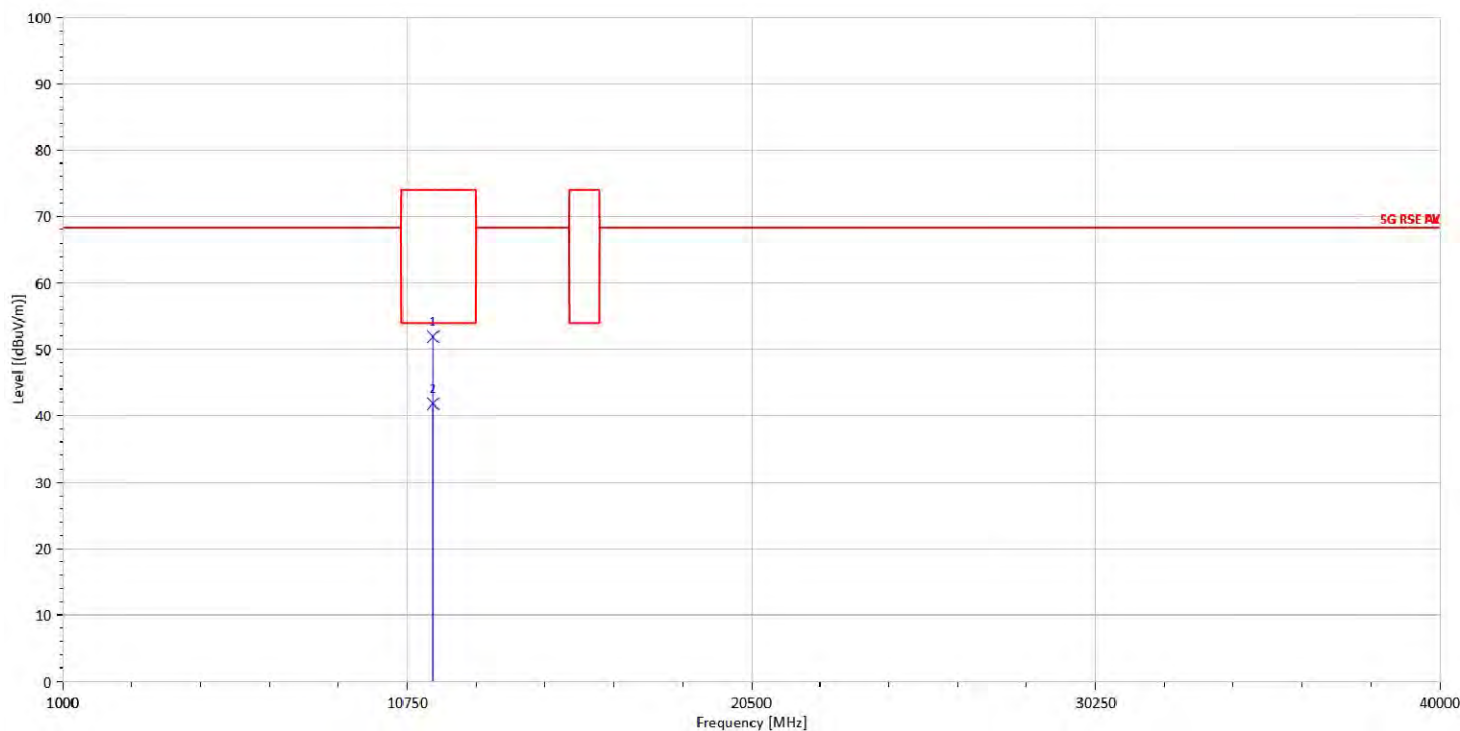
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11490.00	H	Peak	30.78	20.70	51.48	74	-22.52
11490.00	H	Peak	21.16	20.70	41.86	74	-32.14

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Operation Mode :	802.11aB4	Test Date :	2018/1/16
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



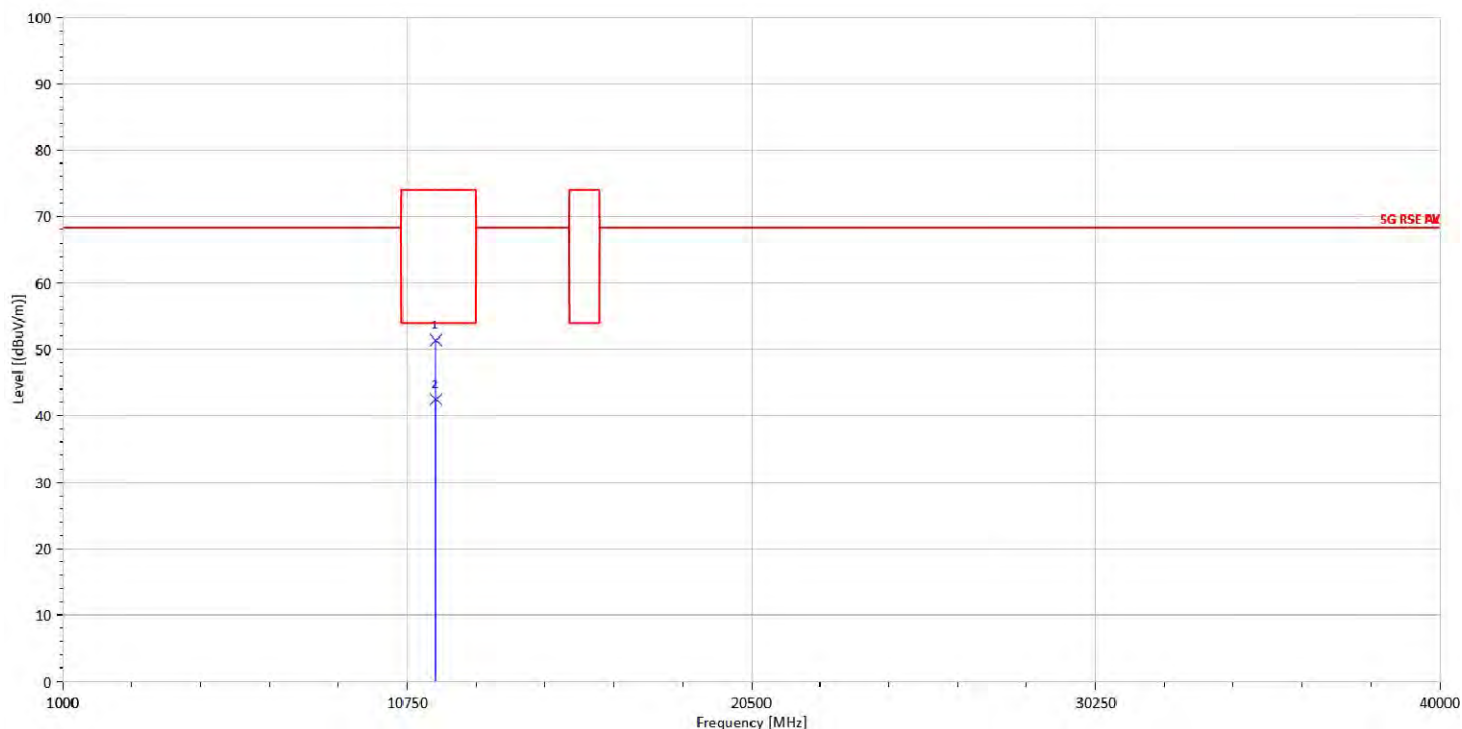
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11490.00	H	Peak	31.20	20.70	51.91	74	-22.09
11490.00	H	Peak	21.15	20.70	41.85	74	-32.15

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Operation Mode :	802.11aB4	Test Date :	2018/1/16
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



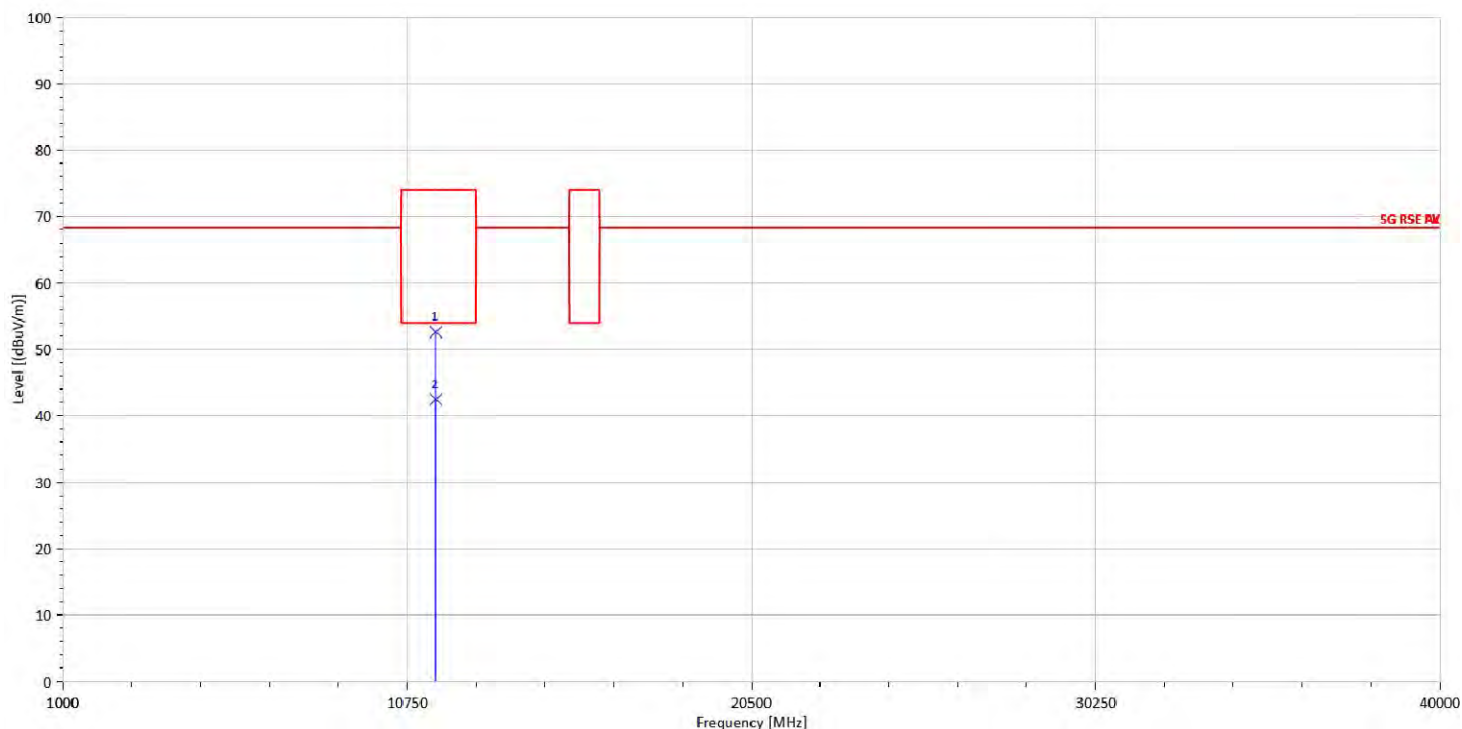
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11570.00	H	Peak	29.93	21.44	51.38	74	-22.62
11570.00	H	Average	21.05	21.44	42.49	54	-11.51

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Operation Mode :	802.11aB4	Test Date :	2018/1/16
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



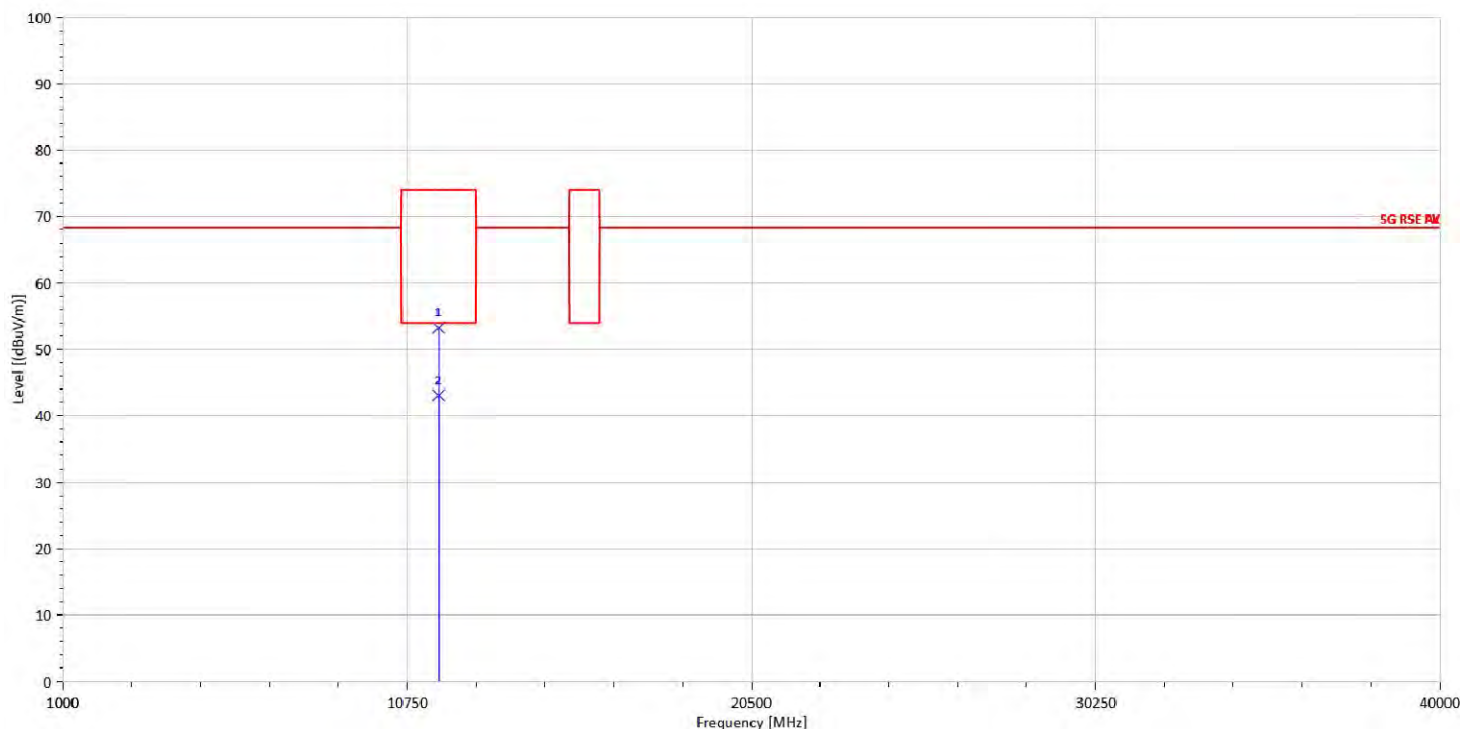
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11570.00	H	Peak	31.17	21.44	52.61	74	-21.39
11570.00	H	Average	21.05	21.44	42.49	54	-11.51

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Operation Mode :	802.11aB4	Test Date :	2018/1/16
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



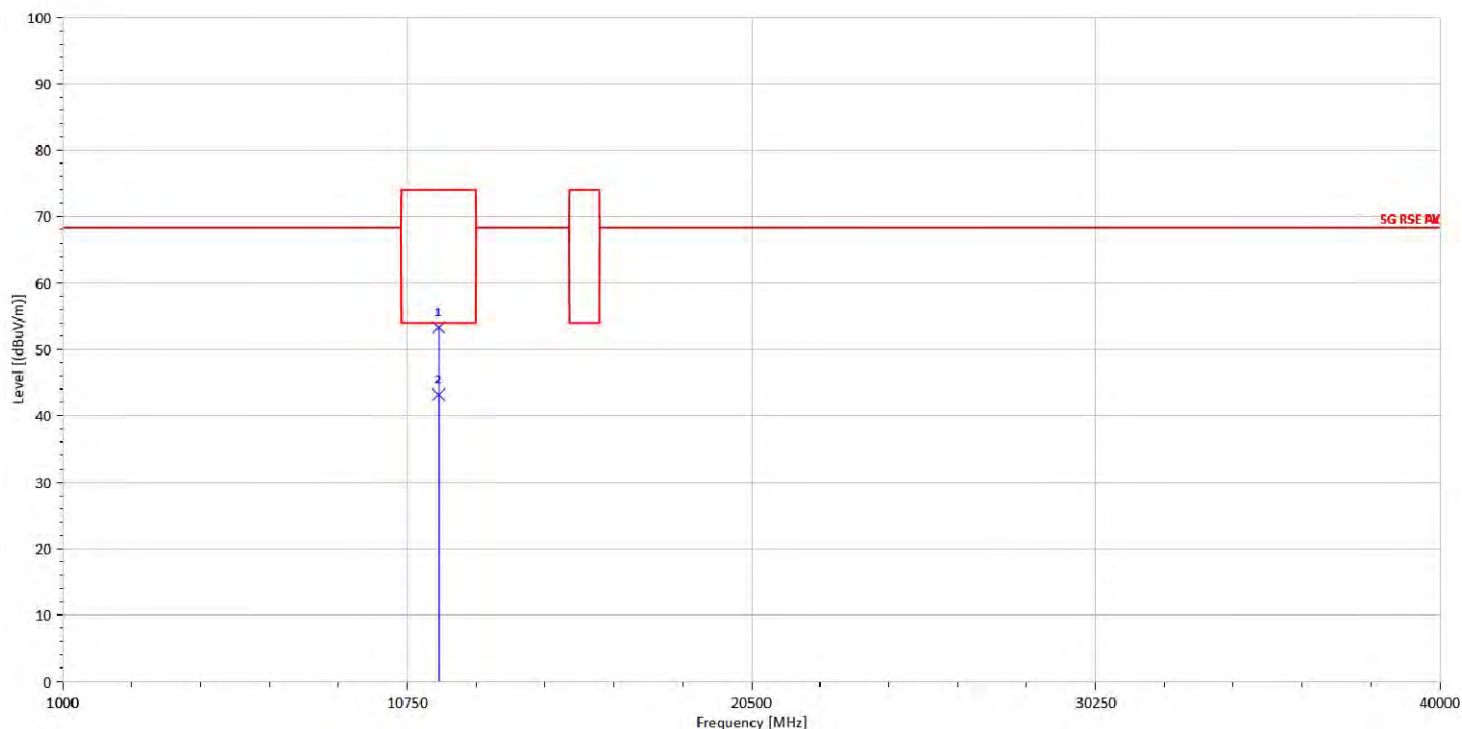
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11650.00	H	Peak	31.24	22.02	53.26	74	-20.74
11650.00	H	Peak	21.08	22.02	43.10	74	-30.90

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Operation Mode :	802.11aB4	Test Date :	2018/1/16
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	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	
11650.00	H	Peak	31.31	22.02	53.33	74	-20.67
11650.00	H	Average	21.18	22.02	43.20	54	-10.80

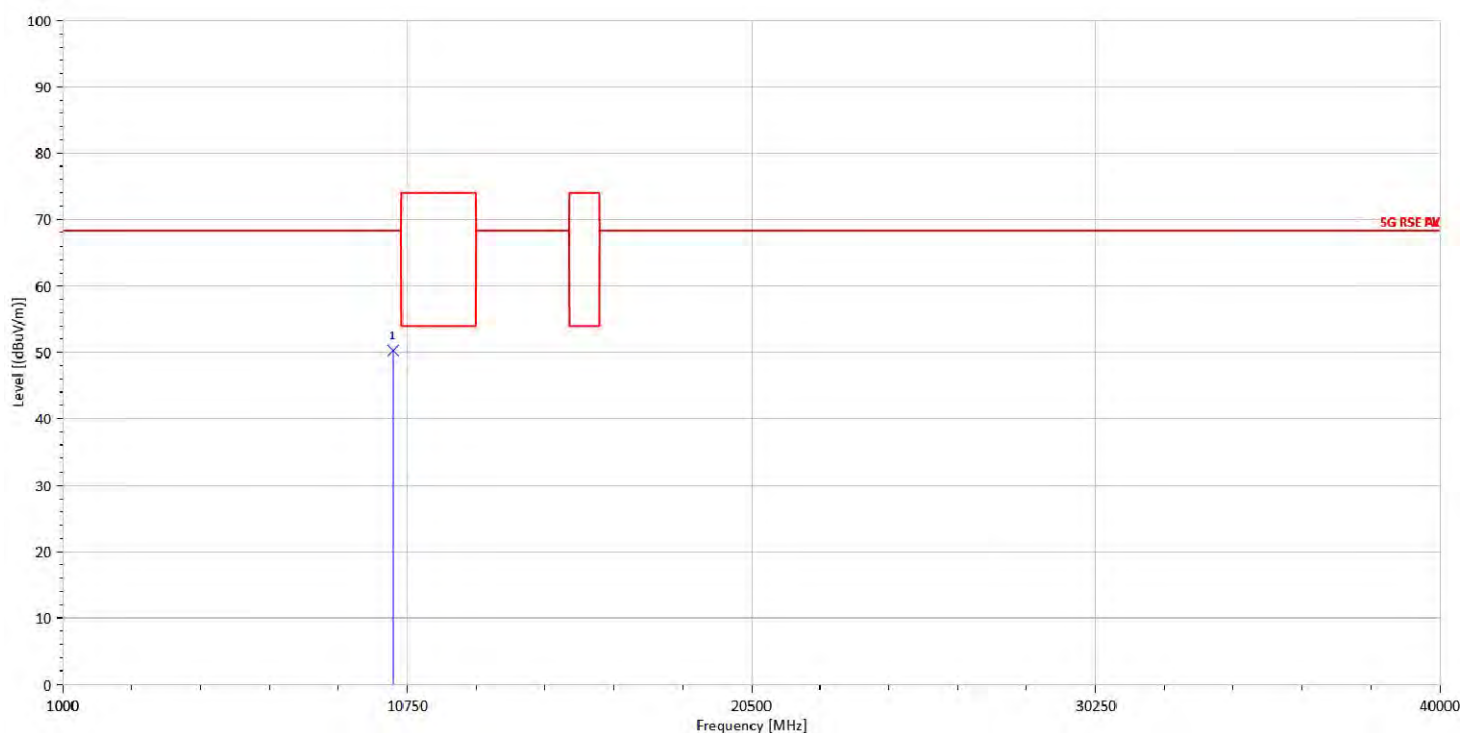
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Mode :	802.11n20B1	Test Date :	2018/1/16
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	dB
10360.00	H	Peak	30.10	20.18	50.28	68.3	-18.02

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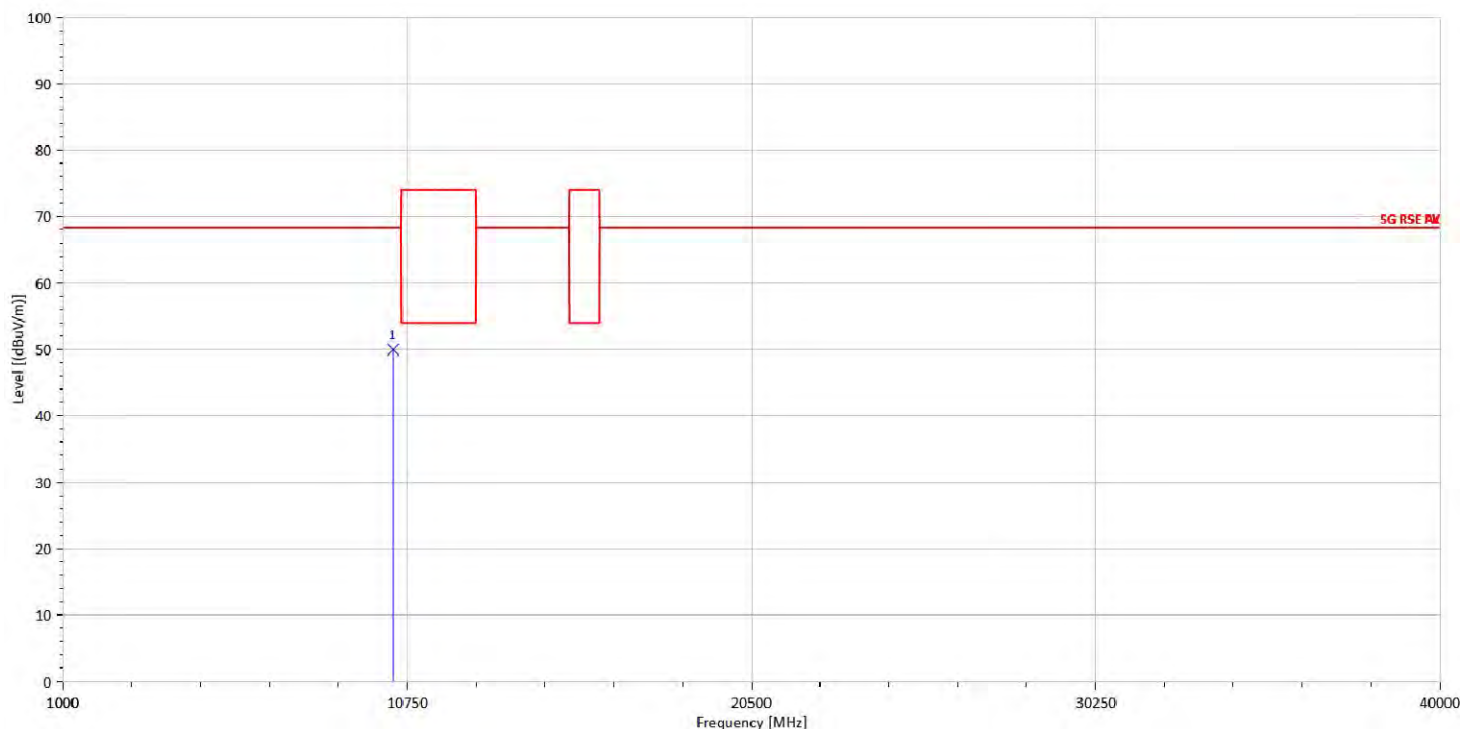
t (886-2) 2299-3279

f (886-2) 2298-0488

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Member of SGS Group

Operation Mode :	802.11n20B1	Test Date :	2018/1/16
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



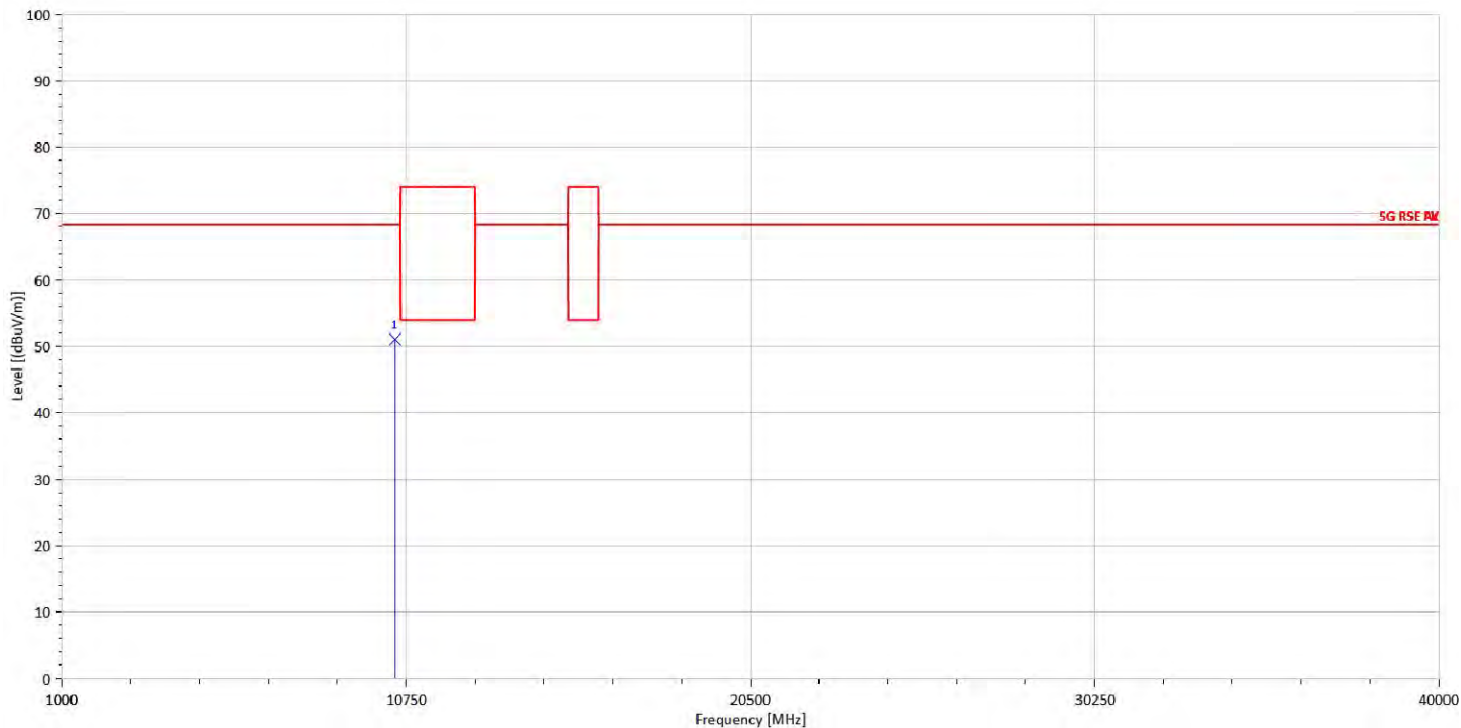
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10360.00	H	Peak	29.80	20.18	49.98	68.3	-18.32

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Operation Mode : 802.11n20B1 Test Date : 2018/1/16
Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Vertical



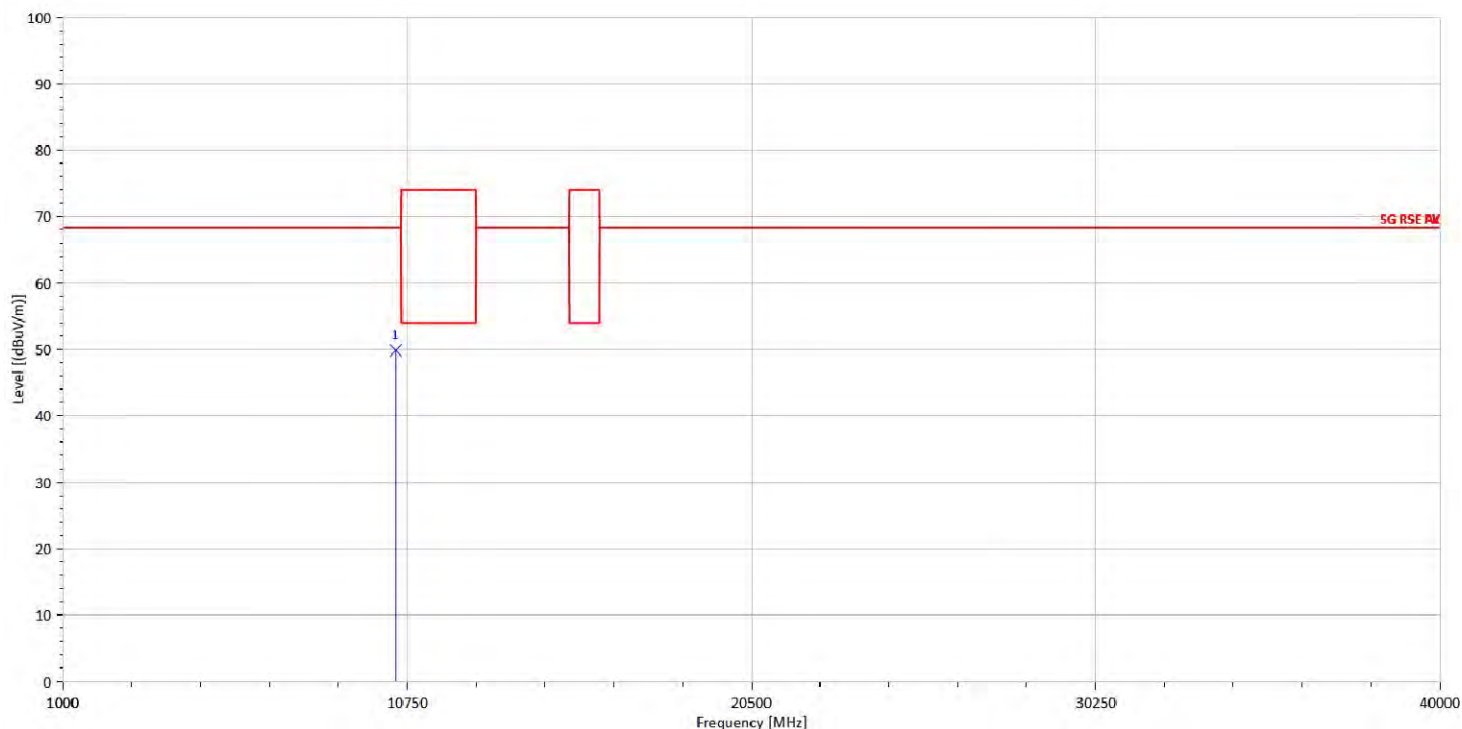
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10440.00	H	Peak	30.78	20.29	51.07	68.3	-17.23

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Operation Mode :	802.11n20B1	Test Date :	2018/1/16
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



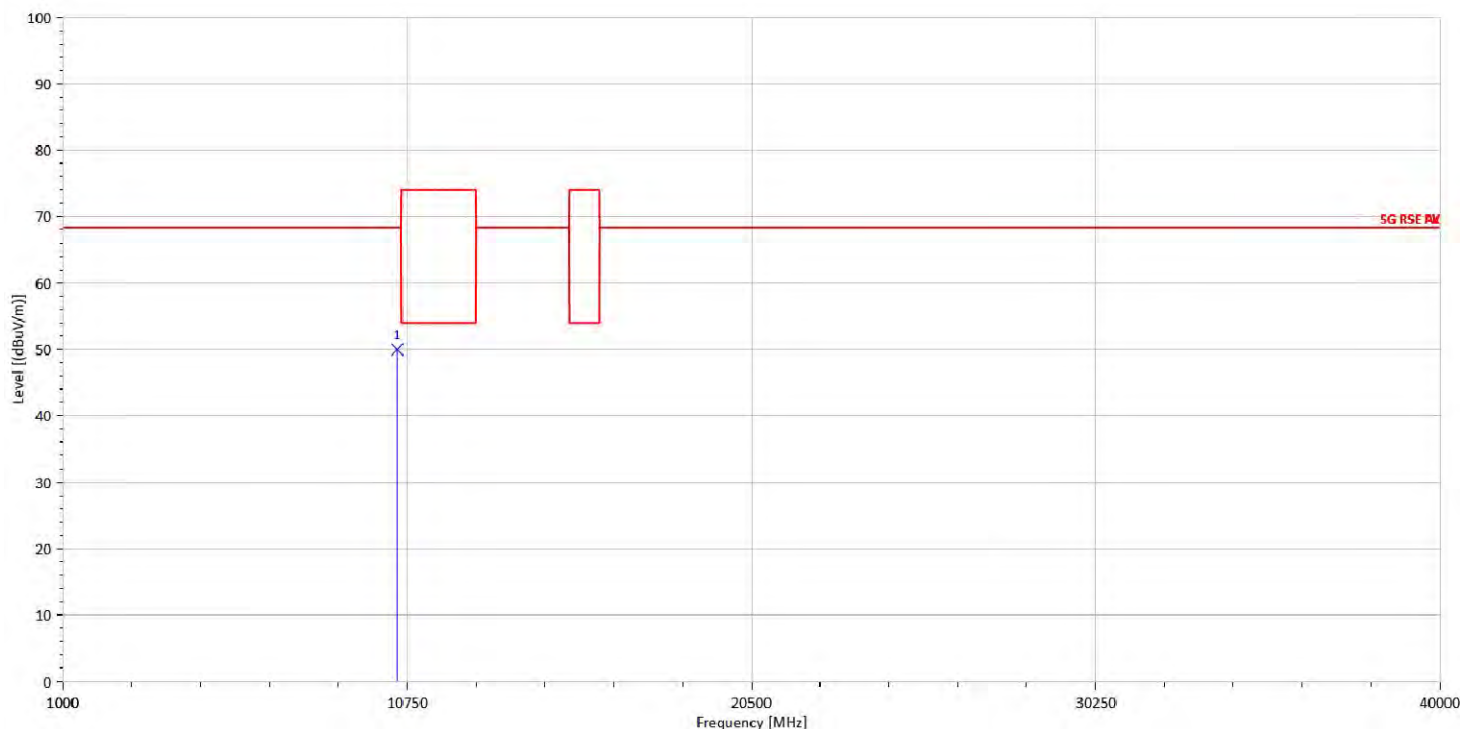
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
10440.00	H	Peak	29.57	20.29	49.86	68.3	-18.44

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Operation Mode :	802.11n20B1	Test Date :	2018/1/16
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



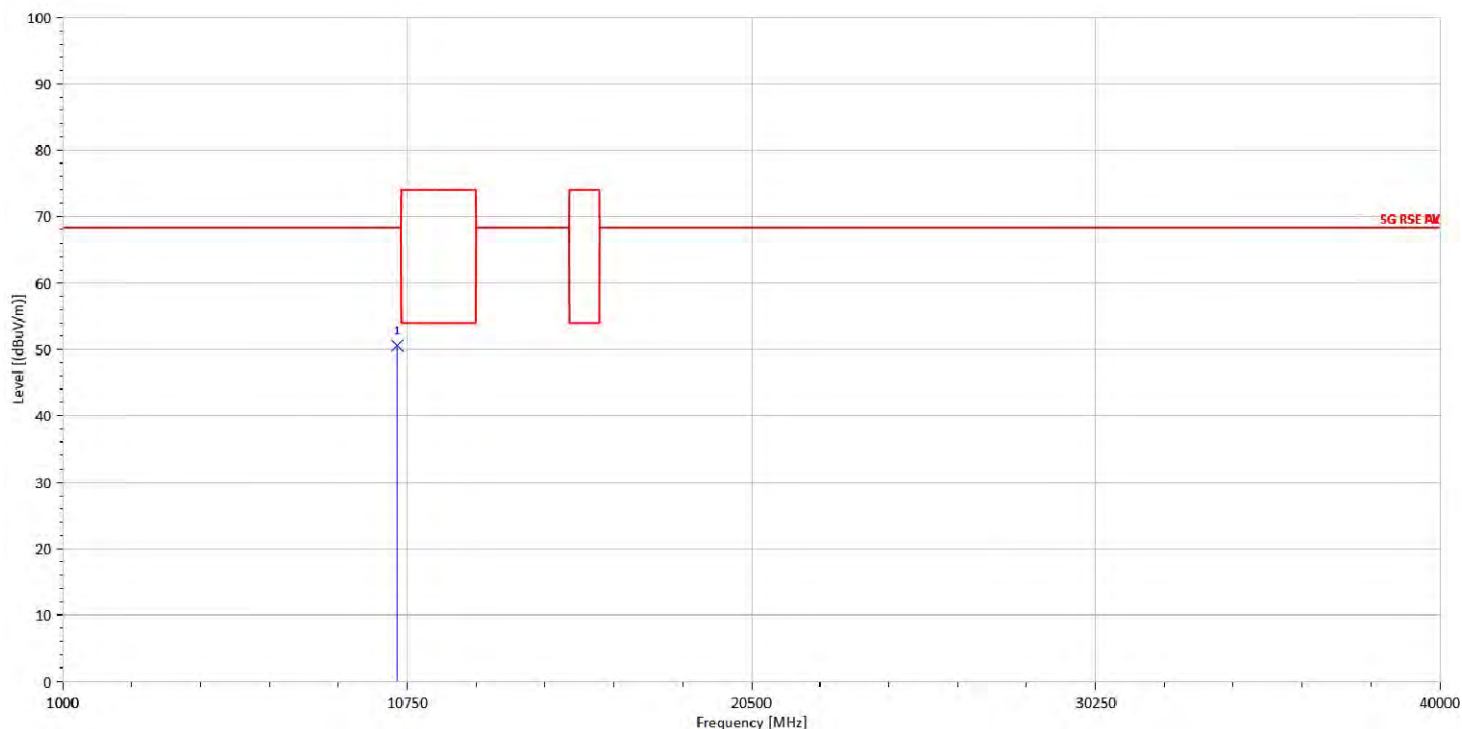
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
10480.00	H	Peak	29.30	20.68	49.98	68.3	-18.32

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Operation Mode :	802.11n20B1	Test Date :	2018/1/16
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	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	dBuV	dB	dBuV/m	dBuV/m	dB
10480.00	H	Peak	29.91	20.68	50.59	68.3	-17.71

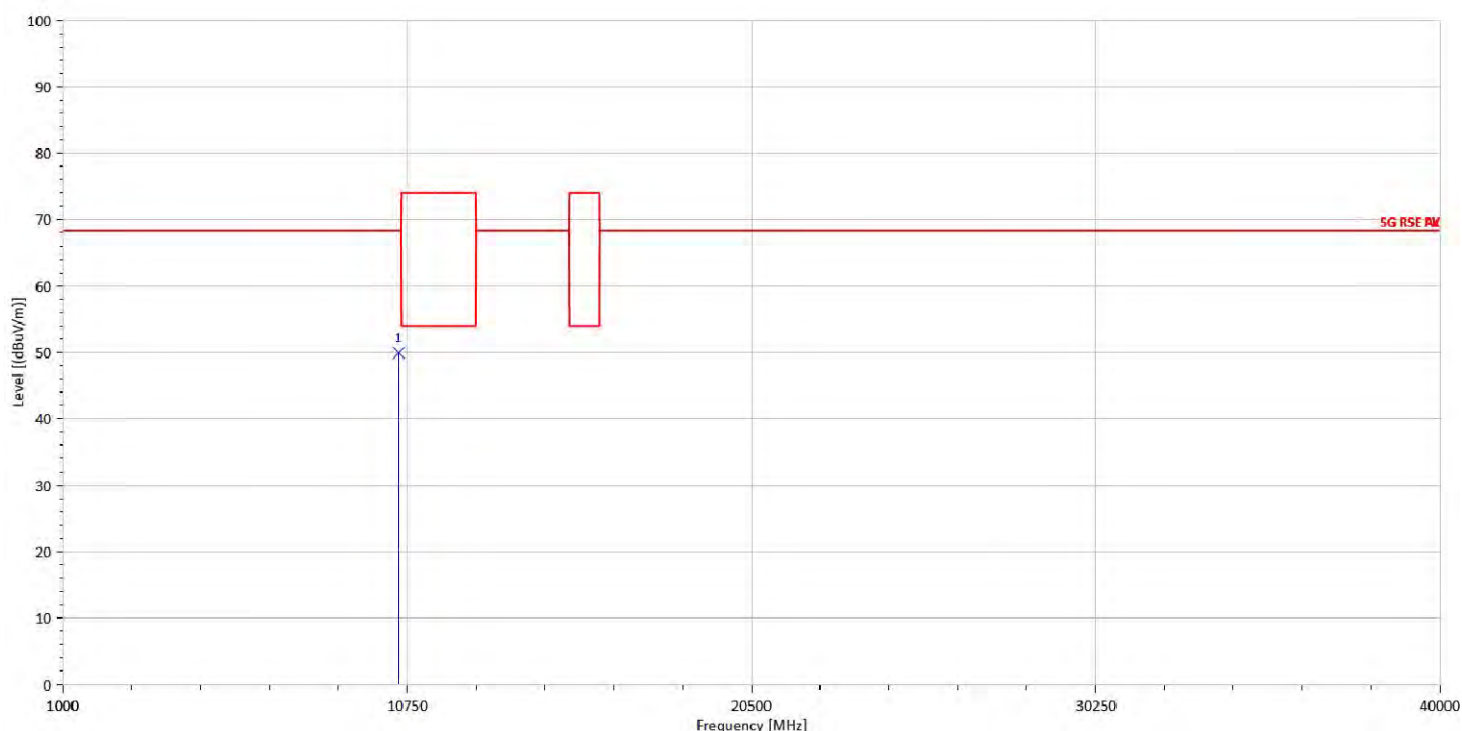
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Mode :	802.11n20B2	Test Date :	2018/1/16
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	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
10520.00	H	Peak	29.85	20.10	49.95	68.3	-18.35

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SGS Taiwan Ltd.

台灣檢驗科技股份有限公司

No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

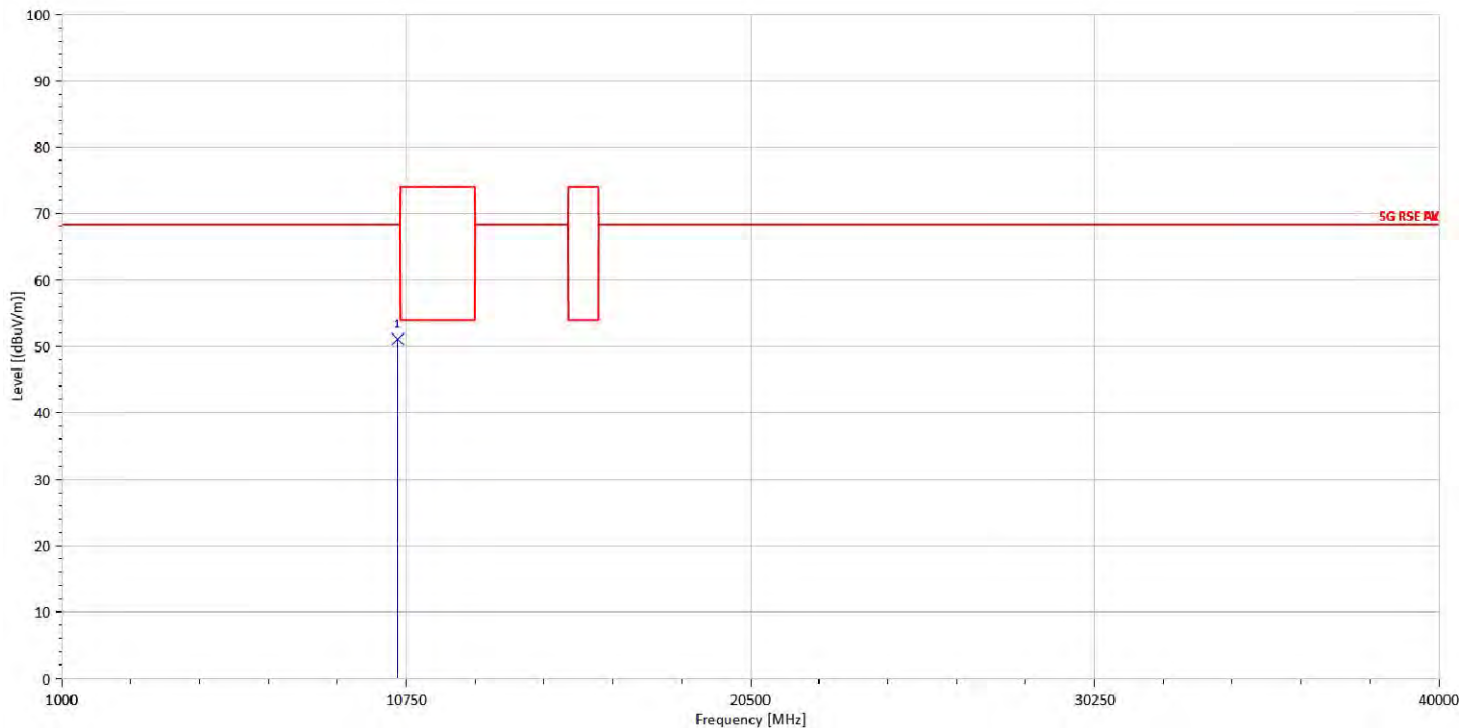
t (886-2) 2299-3279

f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Operation Mode : 802.11n20B2 Test Date : 2018/1/16
Fundamental Frequency : 5260 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Horizontal



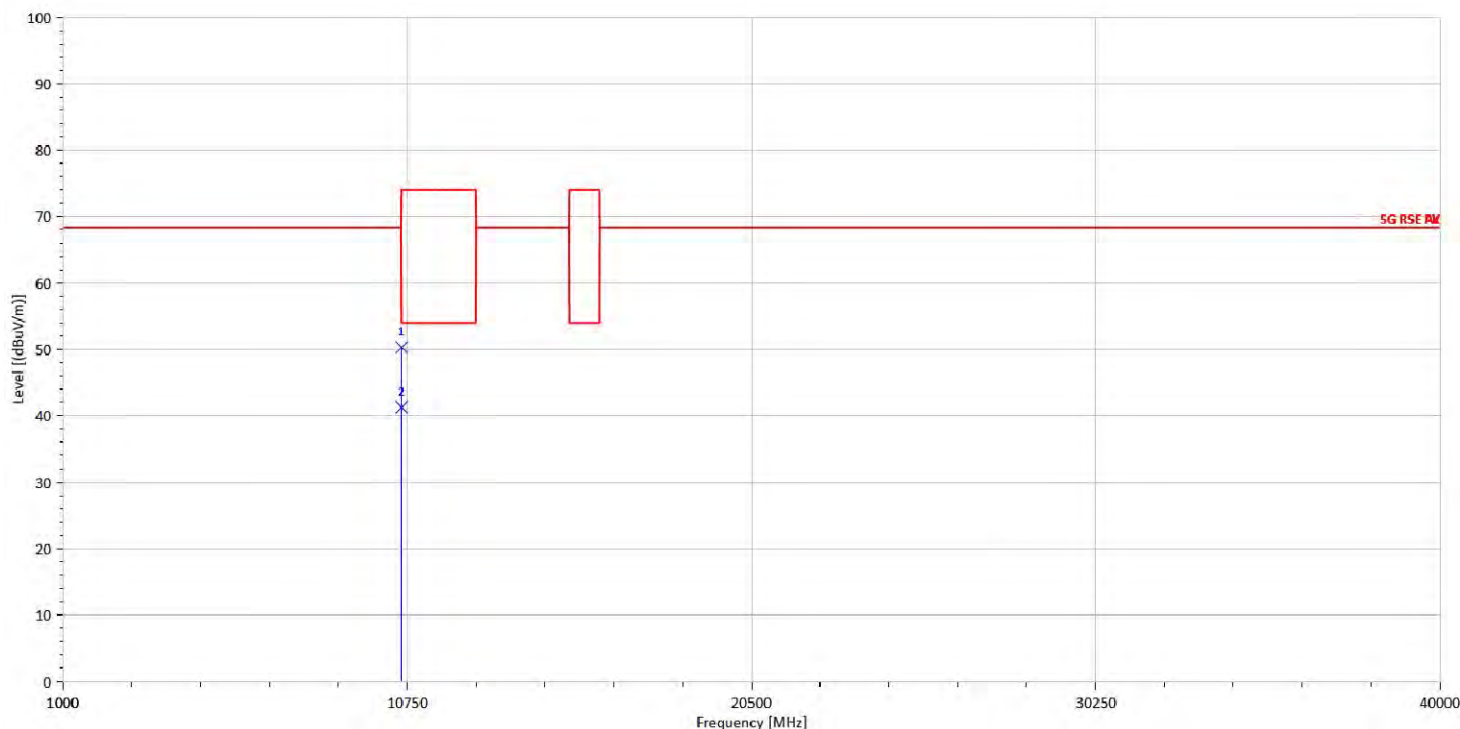
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10520.00	H	Peak	31.00	20.10	51.10	68.3	-17.20

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Operation Mode :	802.11n20B2	Test Date :	2018/1/16
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	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
10600.00	H	Peak	30.15	20.17	50.31	74	-23.69
10600.00	H	Average	21.11	20.17	41.28	54	-12.72

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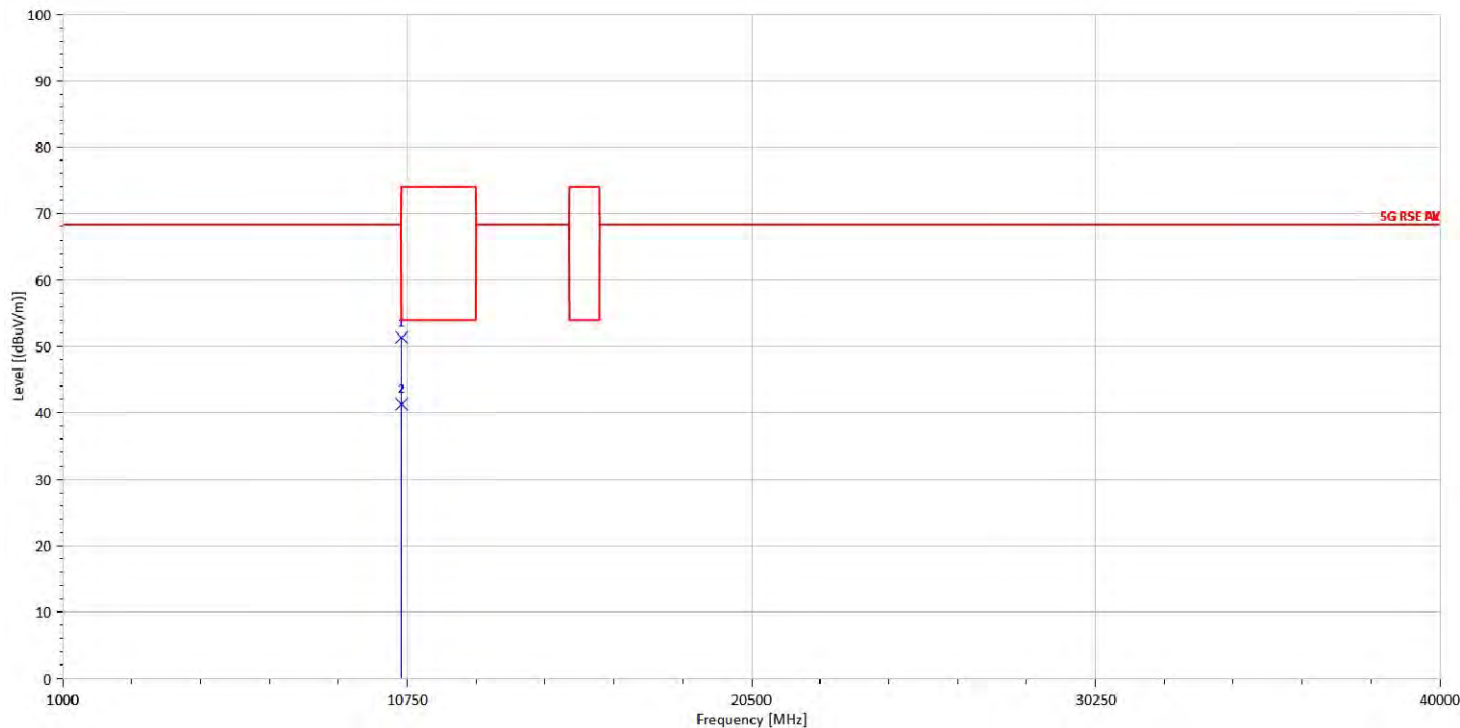
t (886-2) 2299-3279

f (886-2) 2298-0488

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Operation Mode :	802.11n20B2	Test Date :	2018/1/16
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



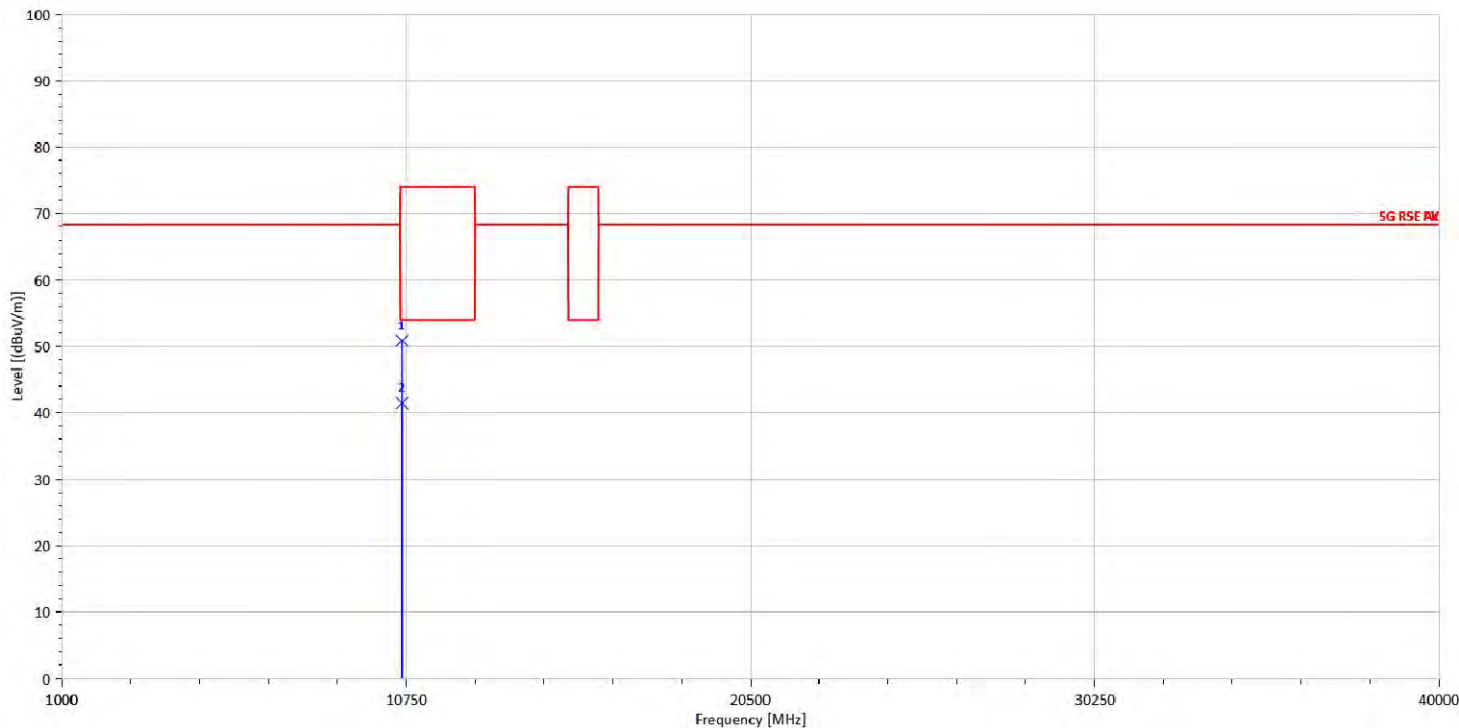
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10600.00	H	Peak	31.19	20.17	51.35	74	-22.65
10600.00	H	Average	21.13	20.17	41.30	54	-12.70

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Operation Mode :	802.11n20B2	Test Date :	2018/1/16
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



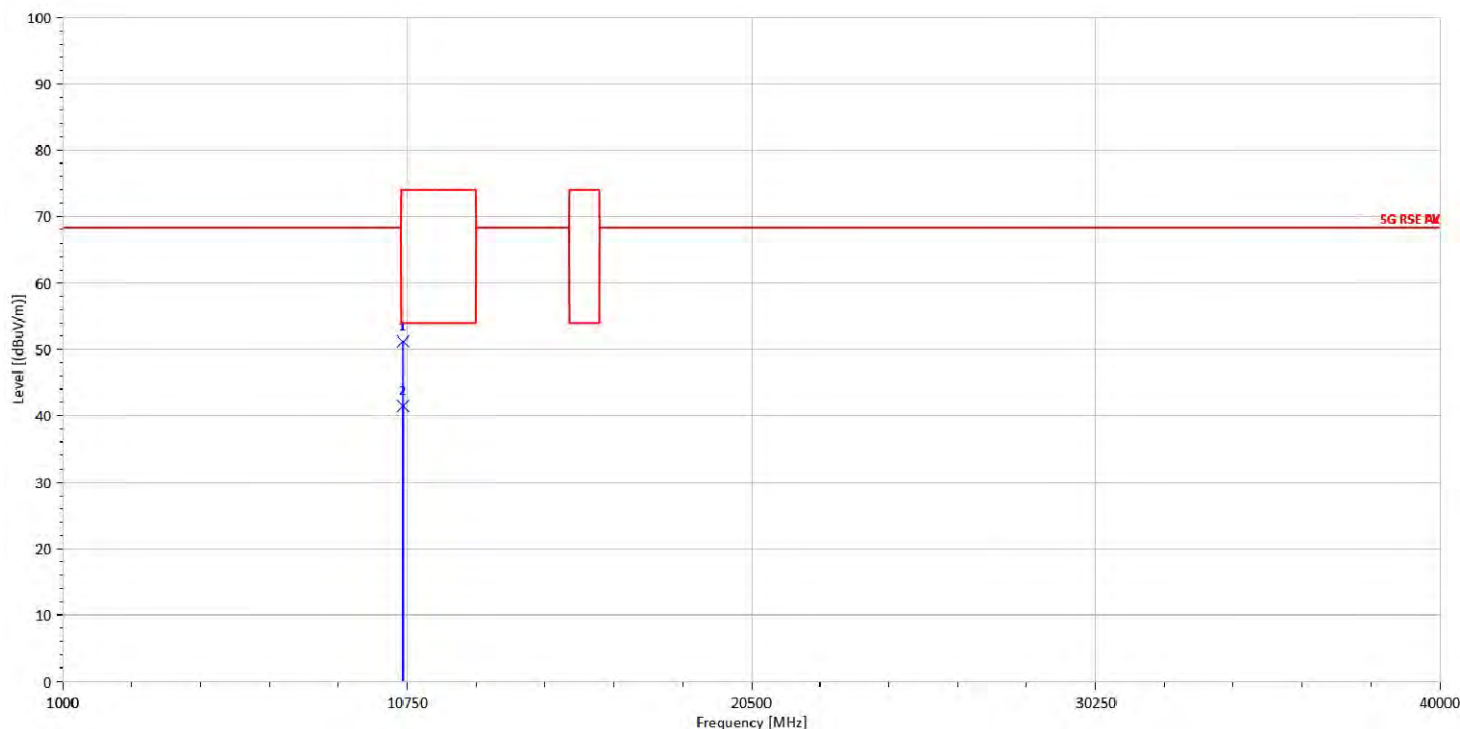
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
10640.00	H	Peak	30.54	20.34	50.88	74	-23.12
10640.00	H	Average	21.13	20.34	41.47	54	-12.53

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Operation Mode :	802.11n20B2	Test Date :	2018/1/16
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	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
10640.00	H	Peak	30.85	20.34	51.20	74	-22.80
10640.00	H	Average	21.15	20.34	41.49	54	-12.51

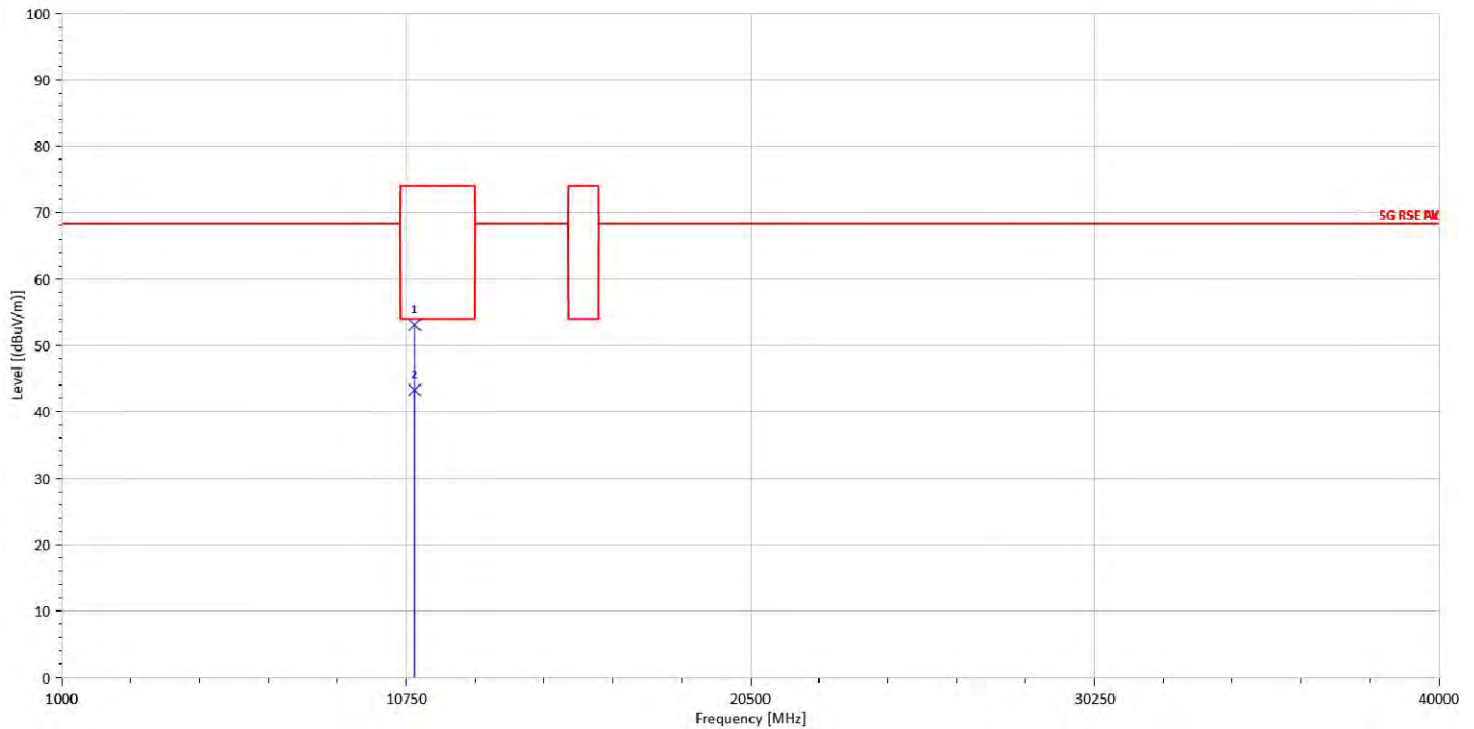
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Mode :	802.11n20B3	Test Date :	2018/1/16
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



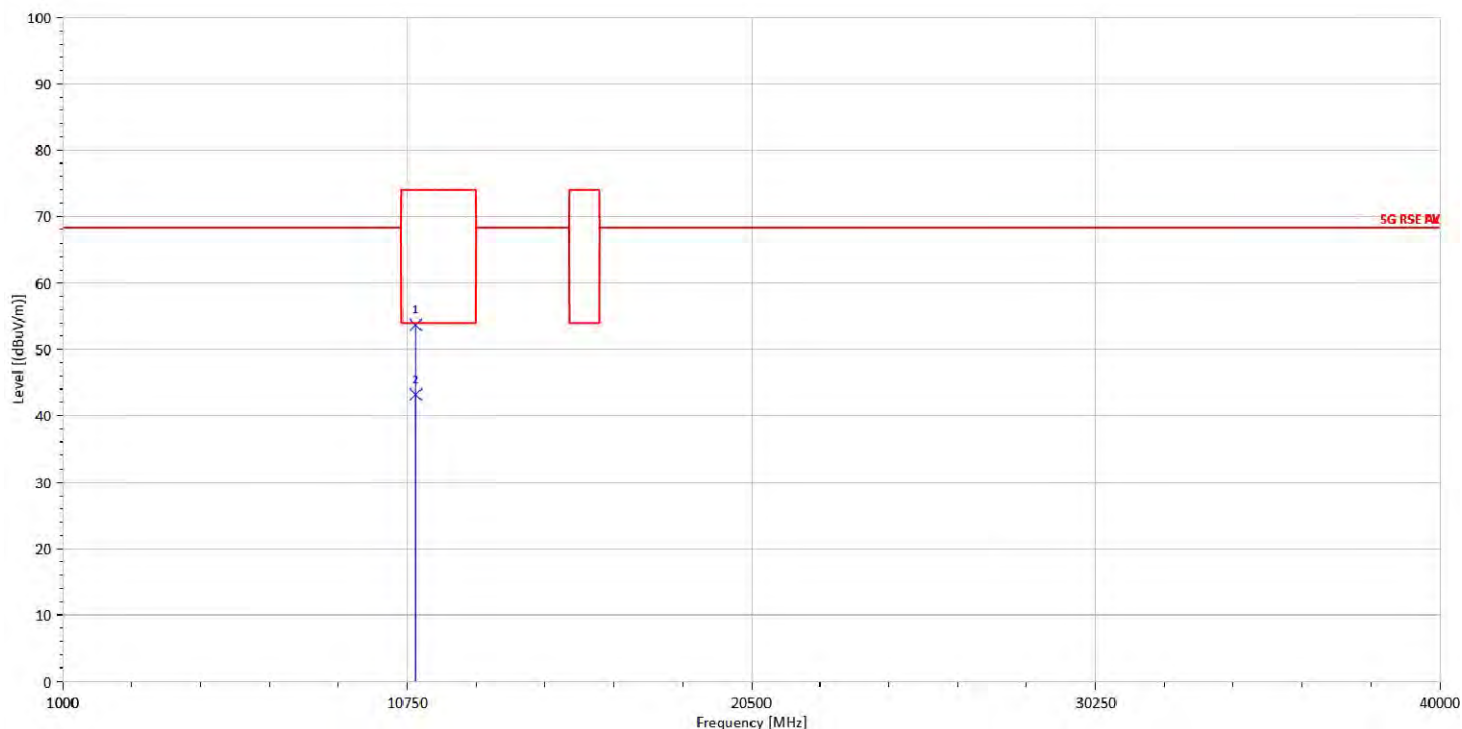
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11000.00	H	Peak	30.98	22.11	53.09	74	-20.91
11000.00	H	Average	21.18	22.11	43.29	54	-10.71

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Operation Mode :	802.11n20B3	Test Date :	2018/1/16
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



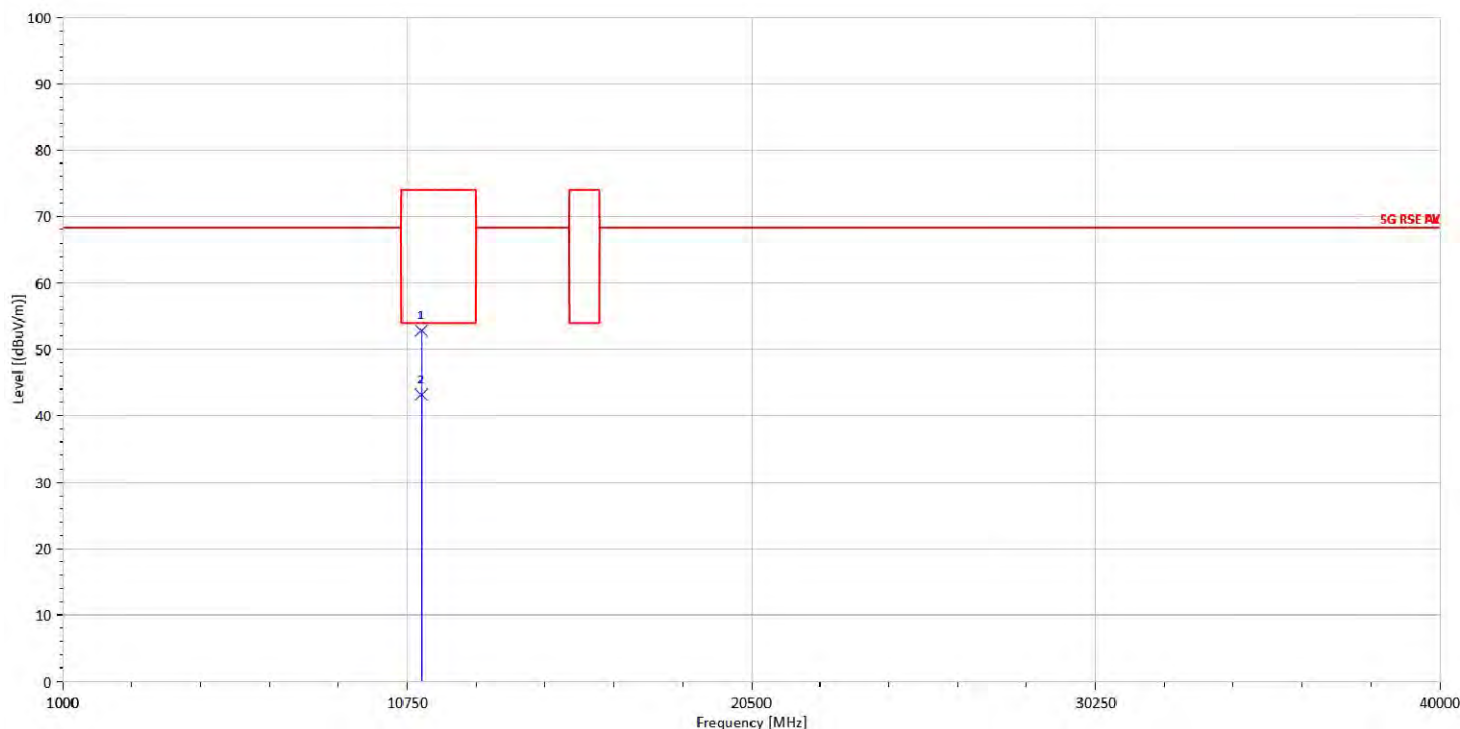
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11000.00	H	Peak	31.59	22.11	53.70	74	-20.30
11000.00	H	Average	21.12	22.11	43.23	54	-10.77

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Operation Mode :	802.11n20B3	Test Date :	2018/1/16
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



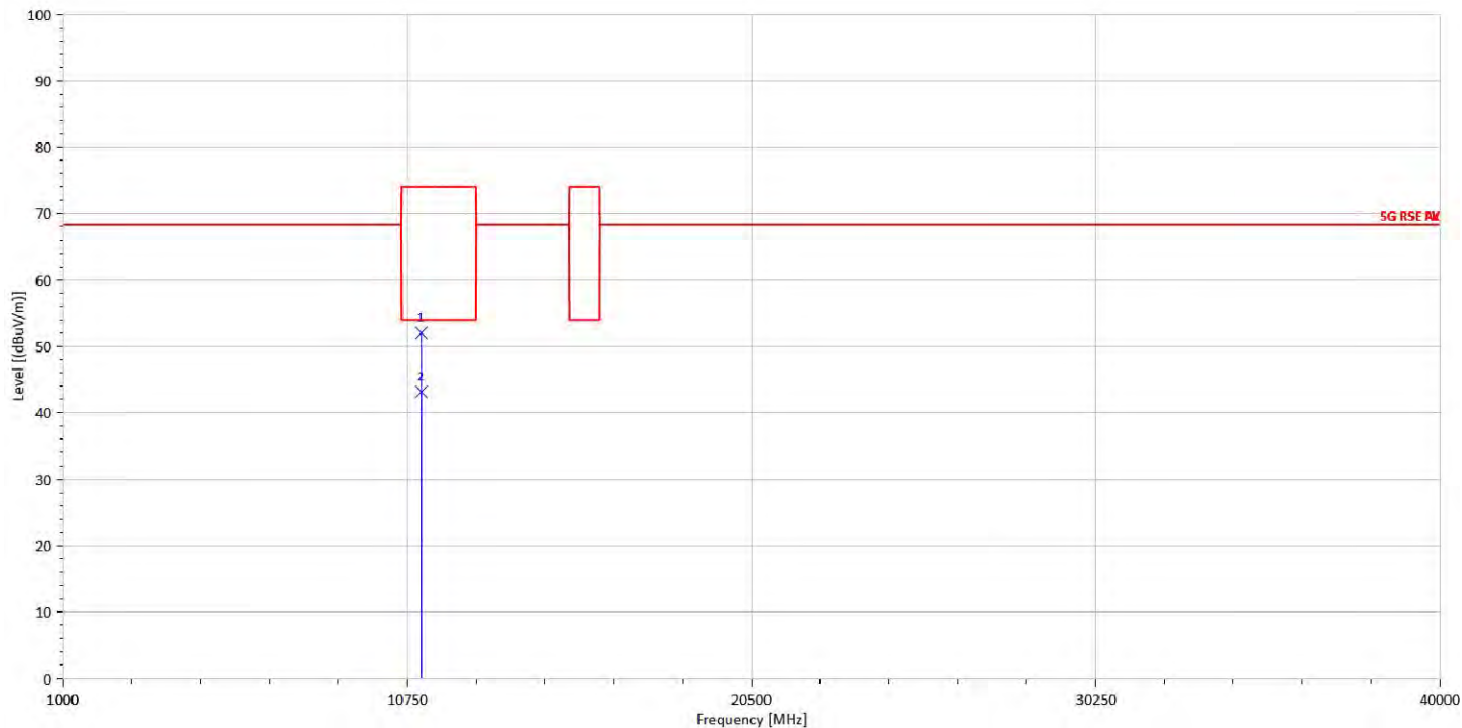
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11160.00	H	Peak	30.78	22.04	52.82	74	-21.18
11160.00	H	Average	21.17	22.04	43.21	54	-10.79

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Operation Mode :	802.11n20B3	Test Date :	2018/1/16
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



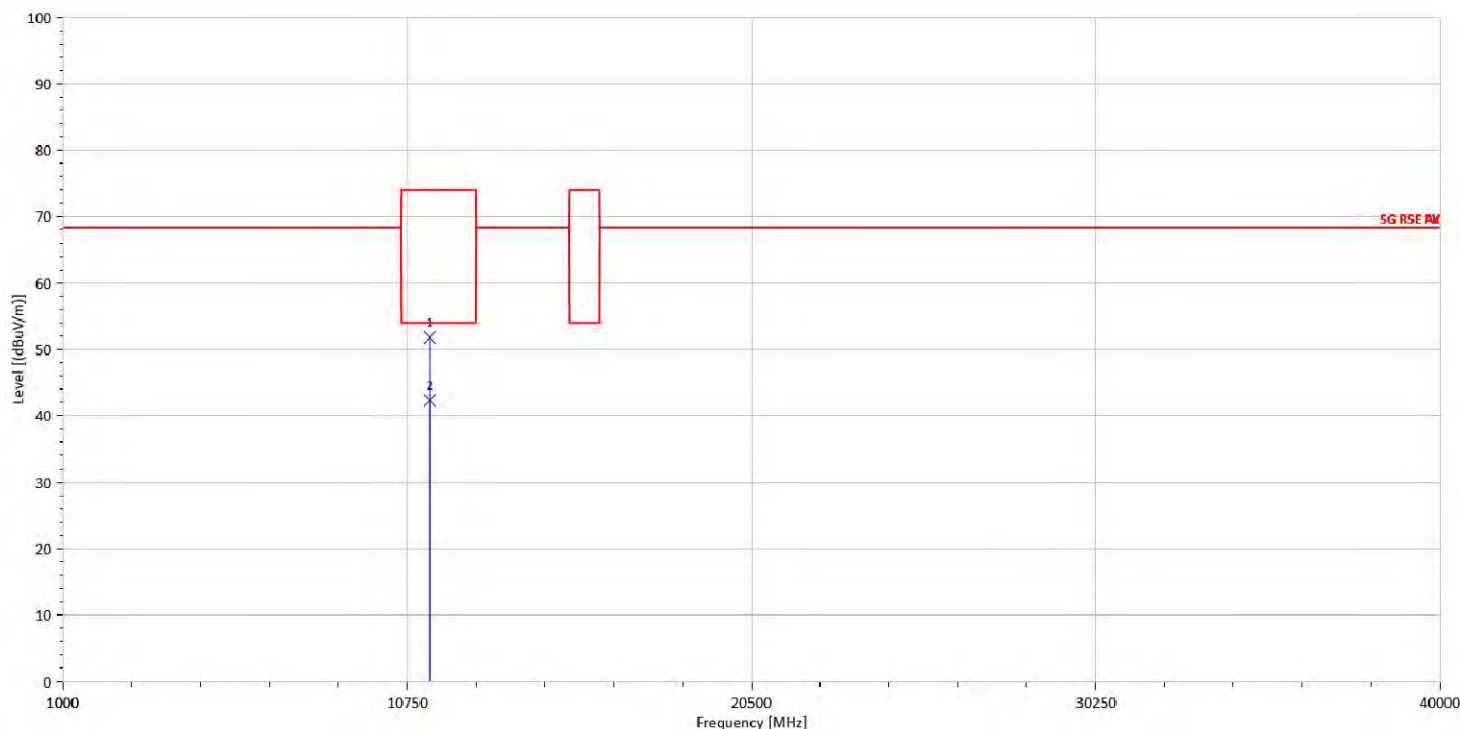
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11160.00	H	Peak	30.01	22.04	52.04	74	-21.96
11160.00	H	Average	21.11	22.04	43.15	54	-10.85

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Operation Mode :	802.11n20B3	Test Date :	2018/1/16
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



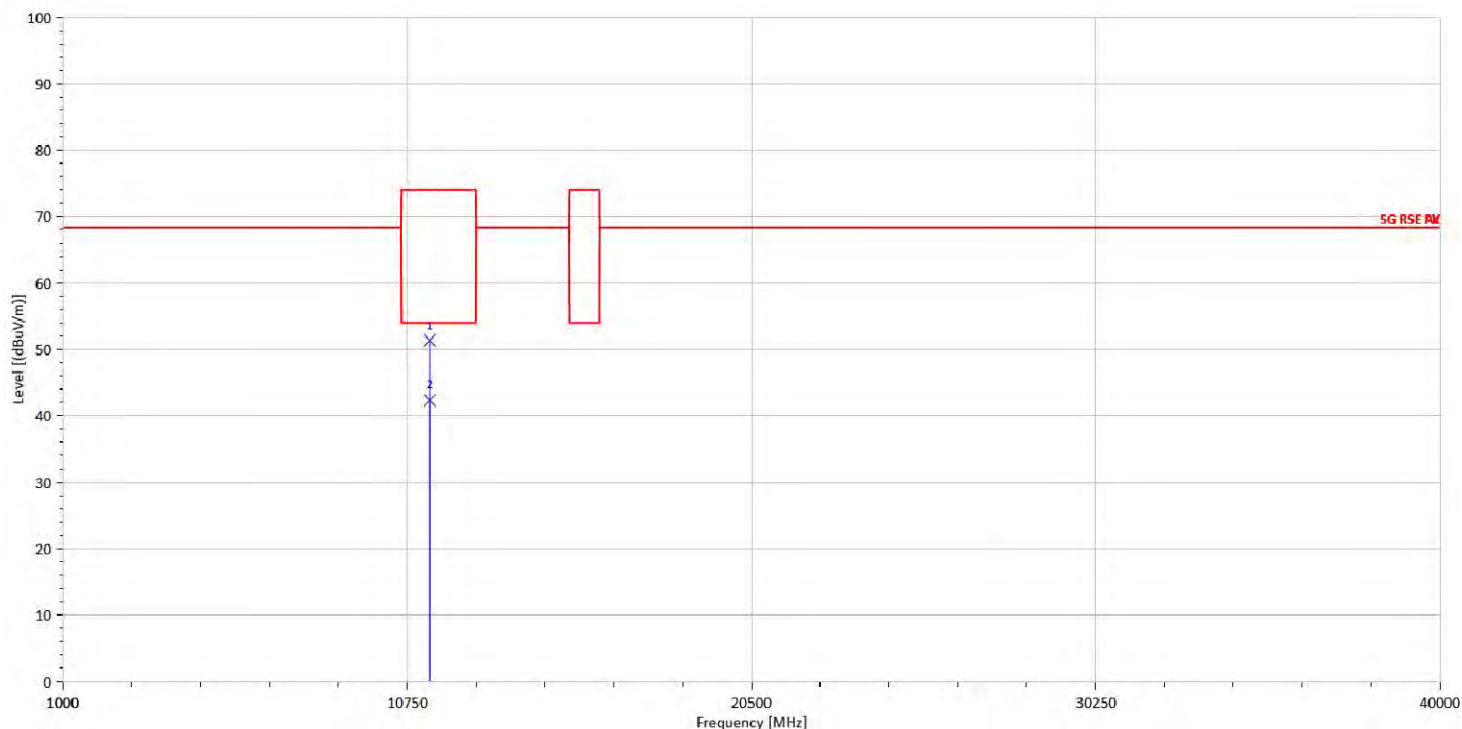
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	dB
11400.00	H	Peak	30.57	21.22	51.79	74	-22.21
11400.00	H	Average	21.12	21.22	42.34	54	-11.66

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Operation Mode :	802.11n20B3	Test Date :	2018/1/16
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



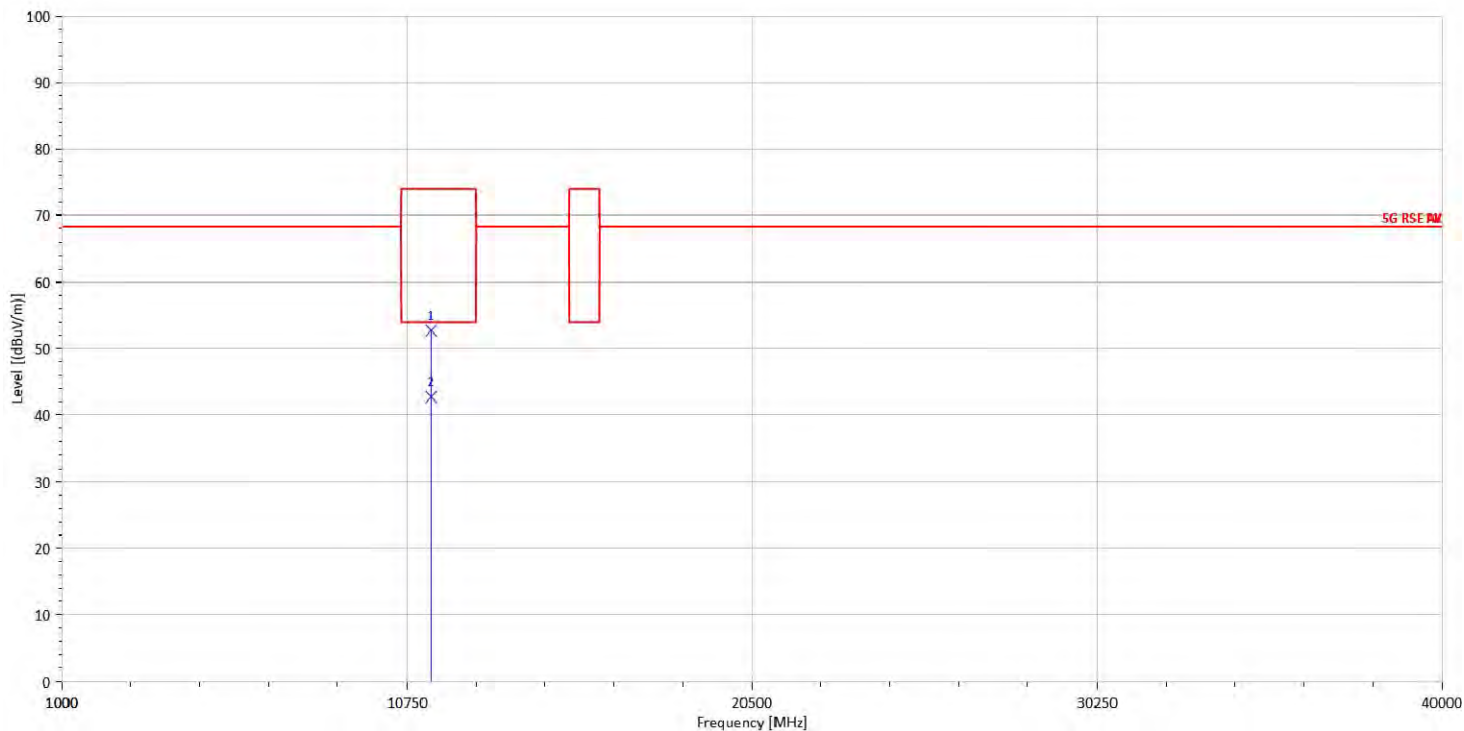
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11400.00	H	Peak	30.16	21.22	51.37	74	-22.63
11400.00	H	Average	21.13	21.22	42.35	54	-11.65

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Operation Mode : 802.11n20B3 Test Date : 2018/2/7
 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



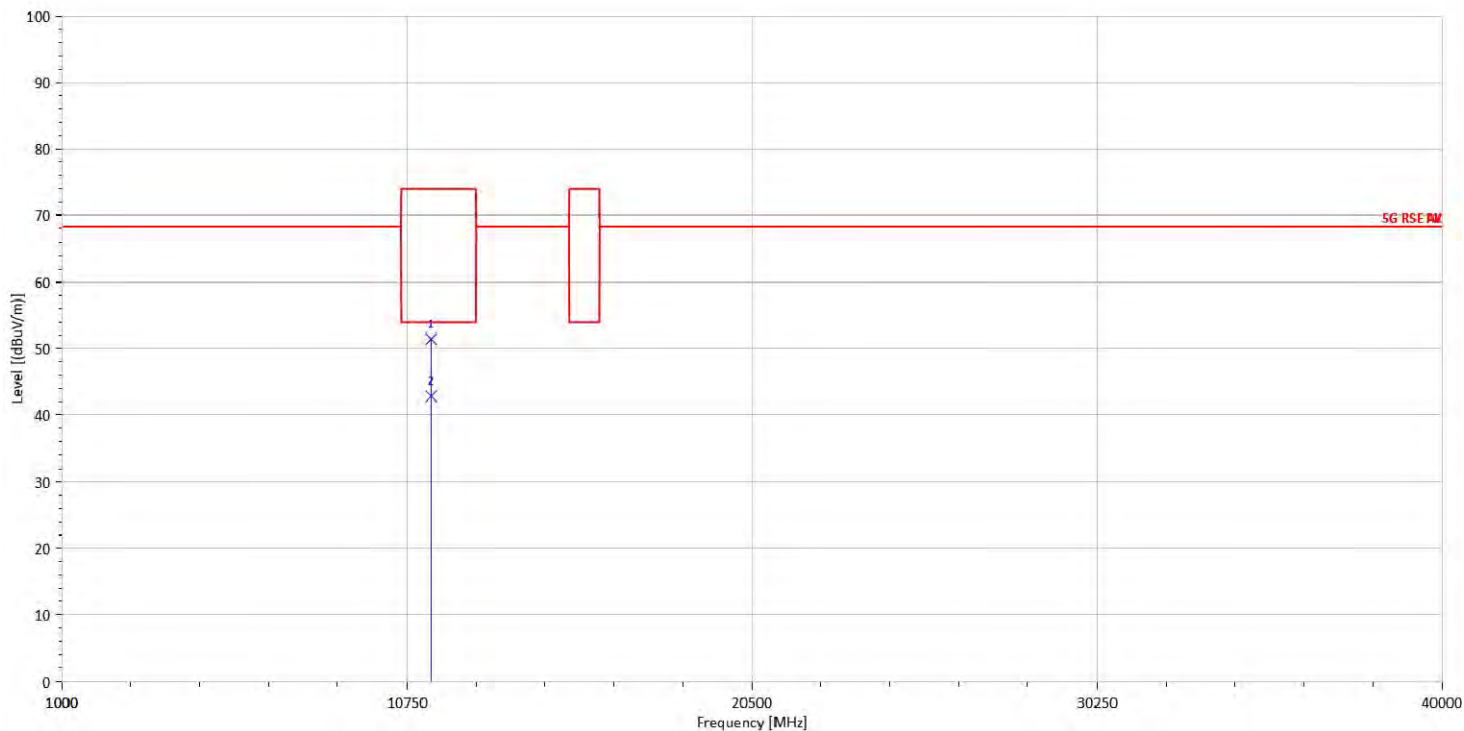
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11440.00	H	Peak	31.33	21.39	52.73	74	-21.27
11440.00	H	Average	21.36	21.39	42.75	54	-11.25

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Operation Mode : 802.11n20B3 Test Date : 2018/2/7
 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.	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
11440.00	H	Peak	30.02	21.39	51.42	74	-22.58
11440.00	H	Peak	21.45	21.39	42.84	74	-31.16

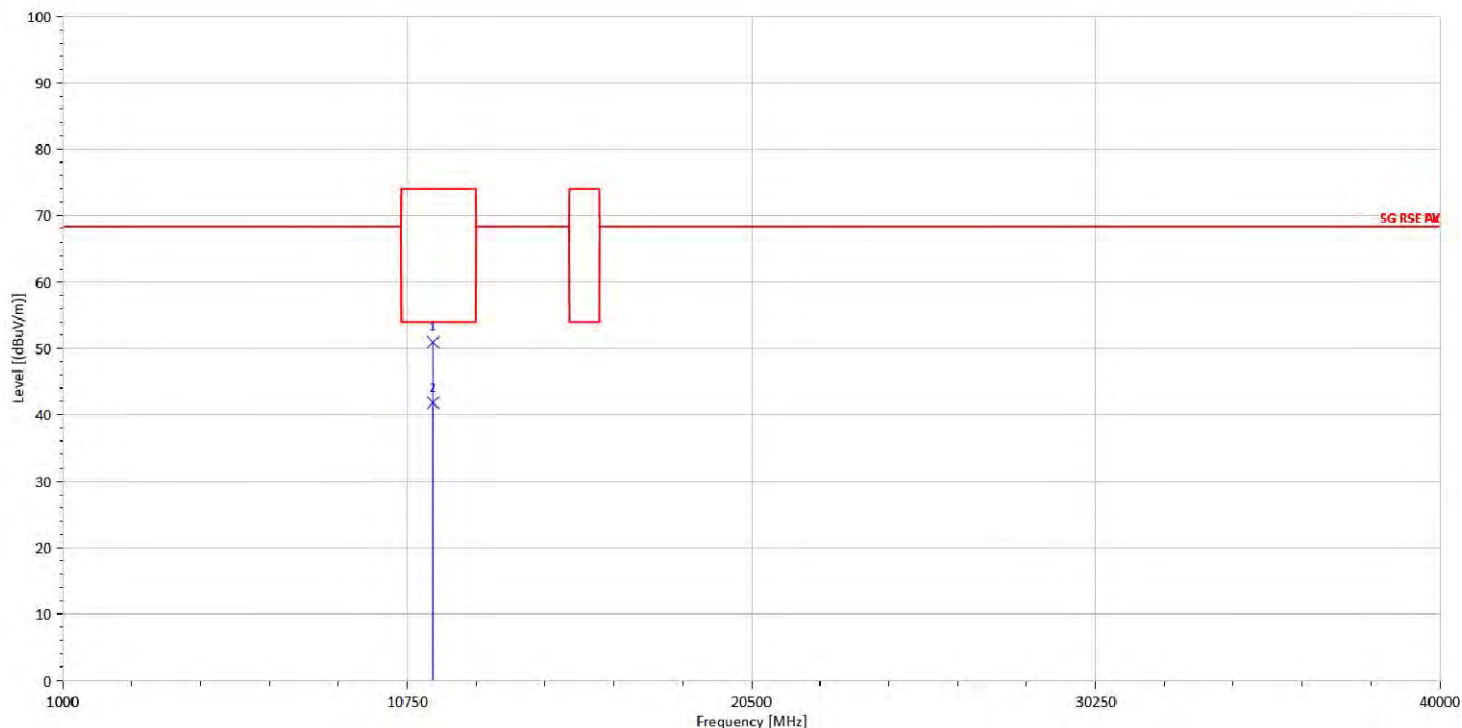
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

Operation Mode :	802.11n20B4	Test Date :	2018/1/16
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	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
11490.00	H	Peak	30.23	20.70	50.93	74	-23.07
11490.00	H	Average	21.15	20.70	41.85	54	-12.15

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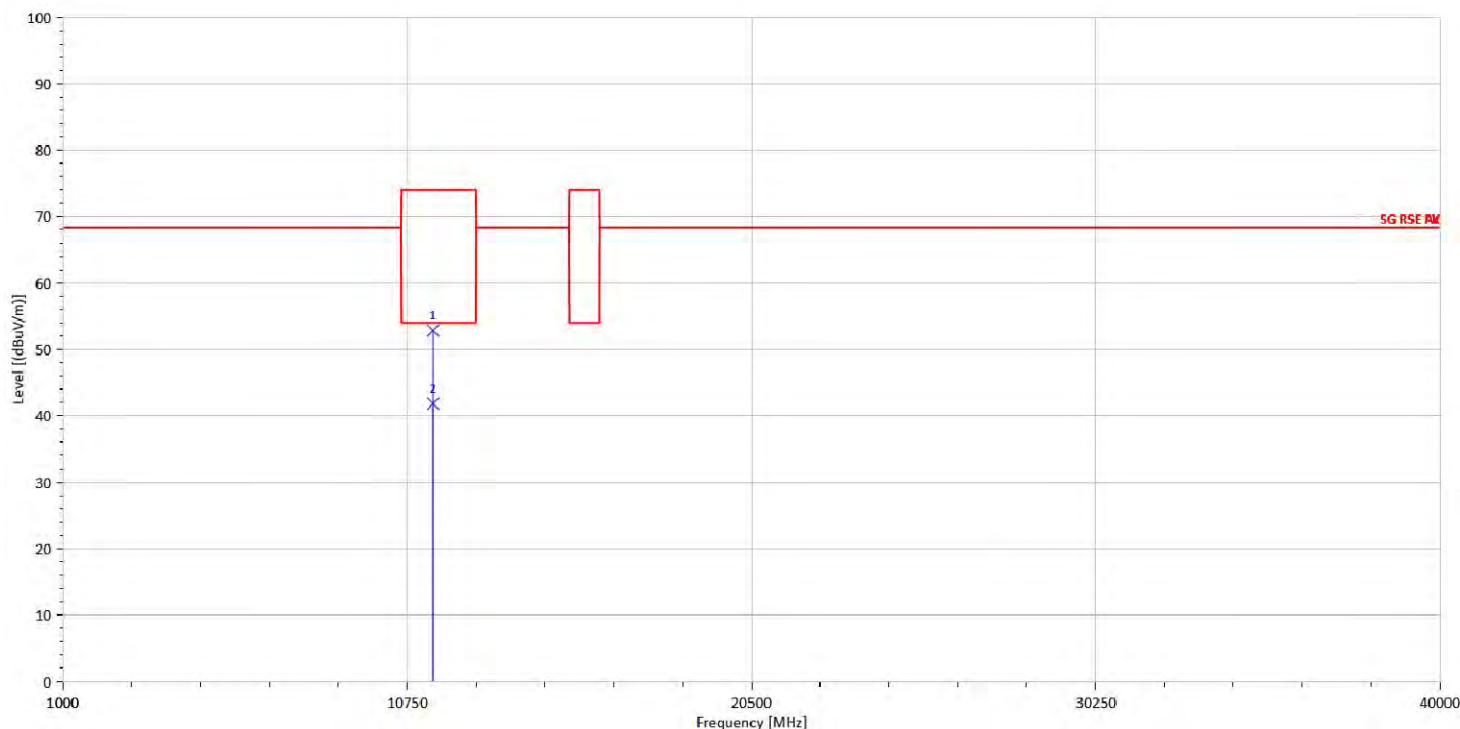
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Operation Mode :	802.11n20B4	Test Date :	2018/1/16
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



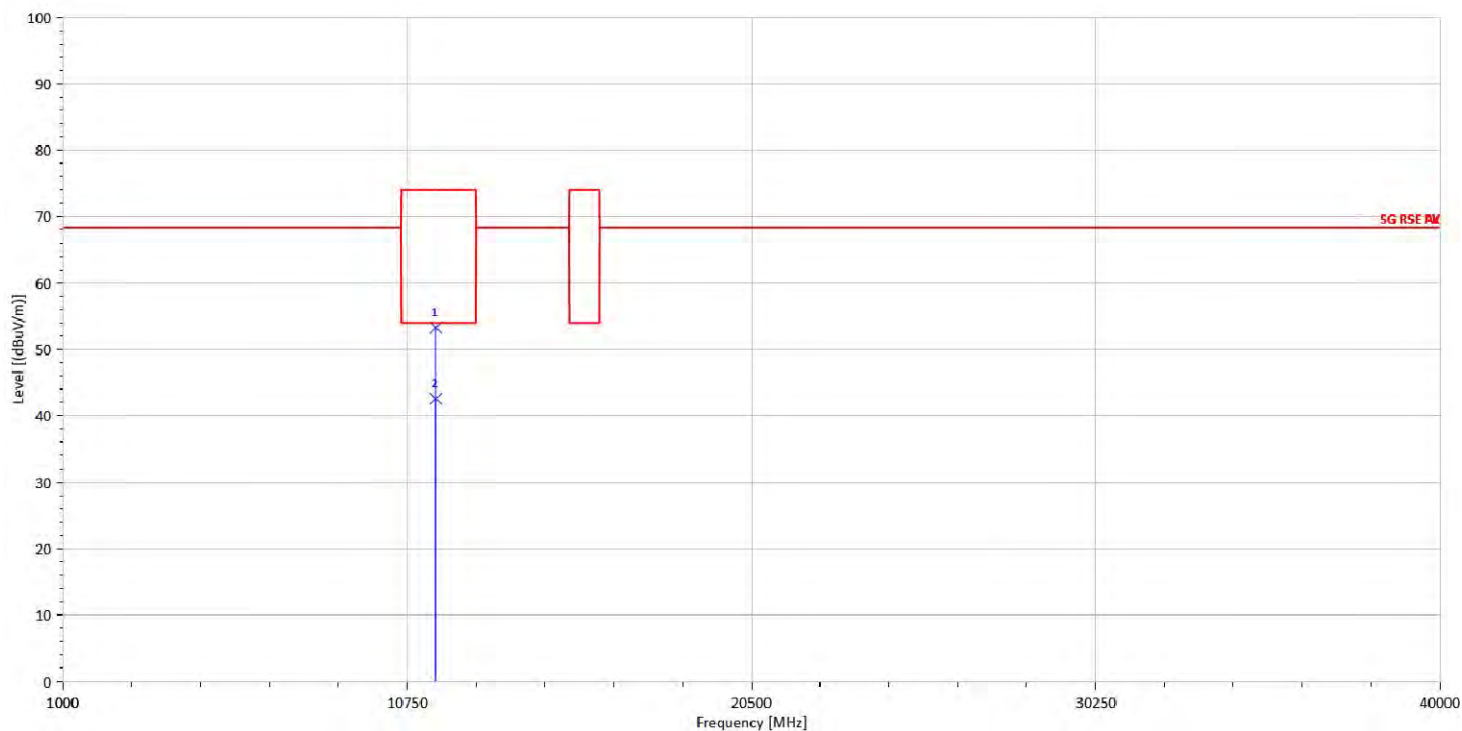
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11490.00	H	Peak	32.13	20.70	52.83	74	-21.17
11490.00	H	Average	21.14	20.70	41.84	54	-12.16

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Operation Mode :	802.11n20B4	Test Date :	2018/1/16
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



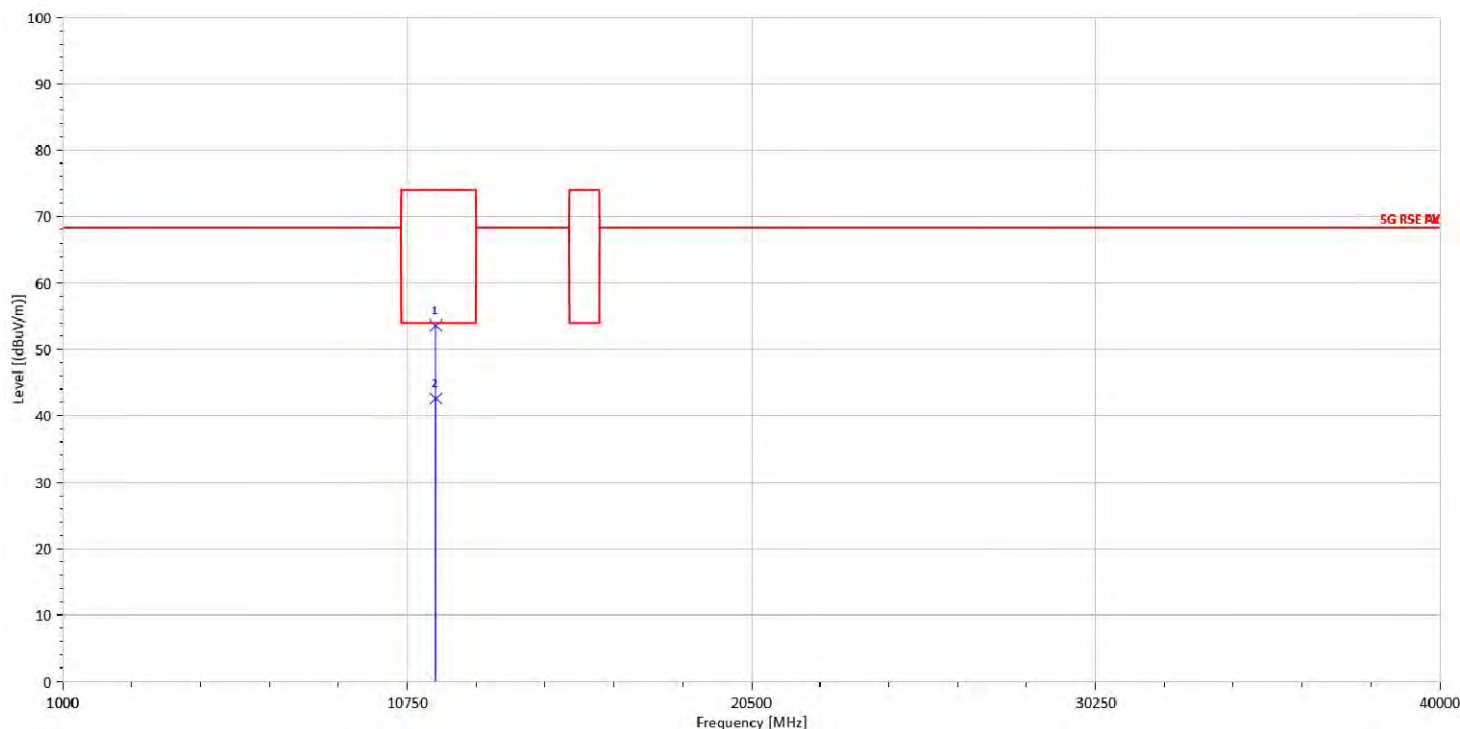
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11570.00	H	Peak	31.84	21.44	53.29	74	-20.71
11570.00	H	Average	21.12	21.44	42.56	54	-11.44

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Operation Mode :	802.11n20B4	Test Date :	2018/1/16
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



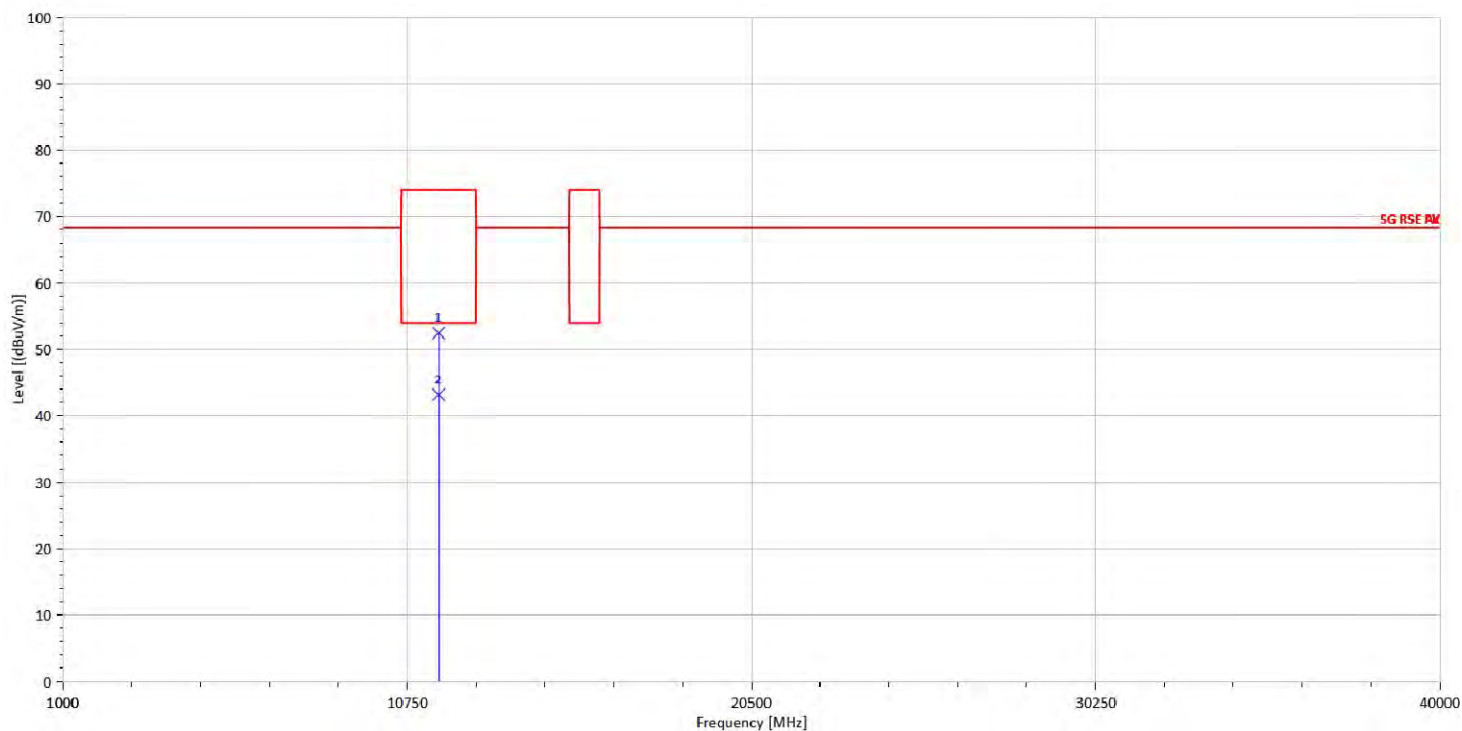
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBuV		dBuV/m	dBuV/m	
11570.00	H	Peak	32.12	21.44	53.57	74	-20.43
11570.00	H	Average	21.16	21.44	42.60	54	-11.40

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Operation Mode :	802.11n20B4	Test Date :	2018/1/16
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



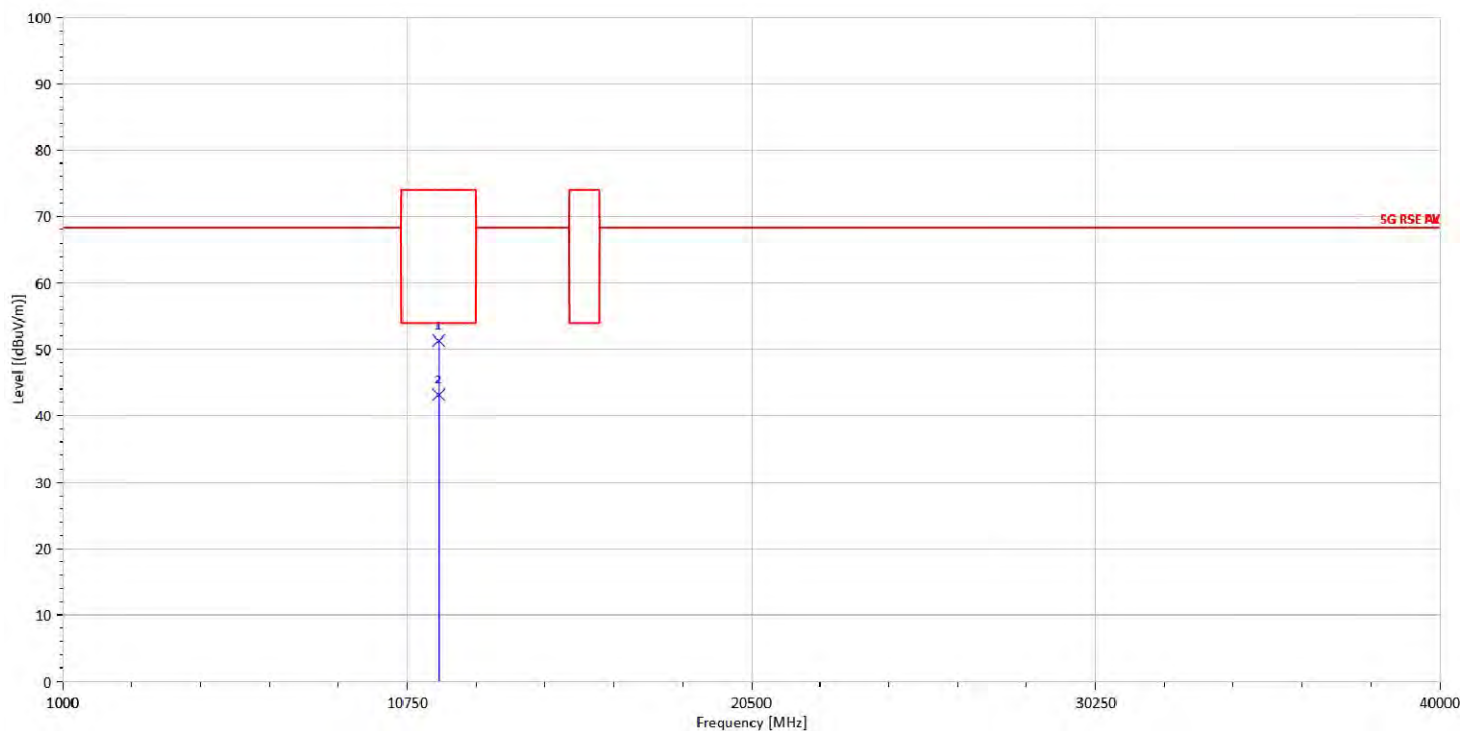
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11650.00	H	Peak	30.45	22.02	52.47	74	-21.53
11650.00	H	Average	21.18	22.02	43.20	54	-10.80

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Operation Mode :	802.11n20B4	Test Date :	2018/1/16
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	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
11650.00	H	Peak	29.31	22.02	51.33	74	-22.67
11650.00	H	Average	21.17	22.02	43.19	54	-10.81

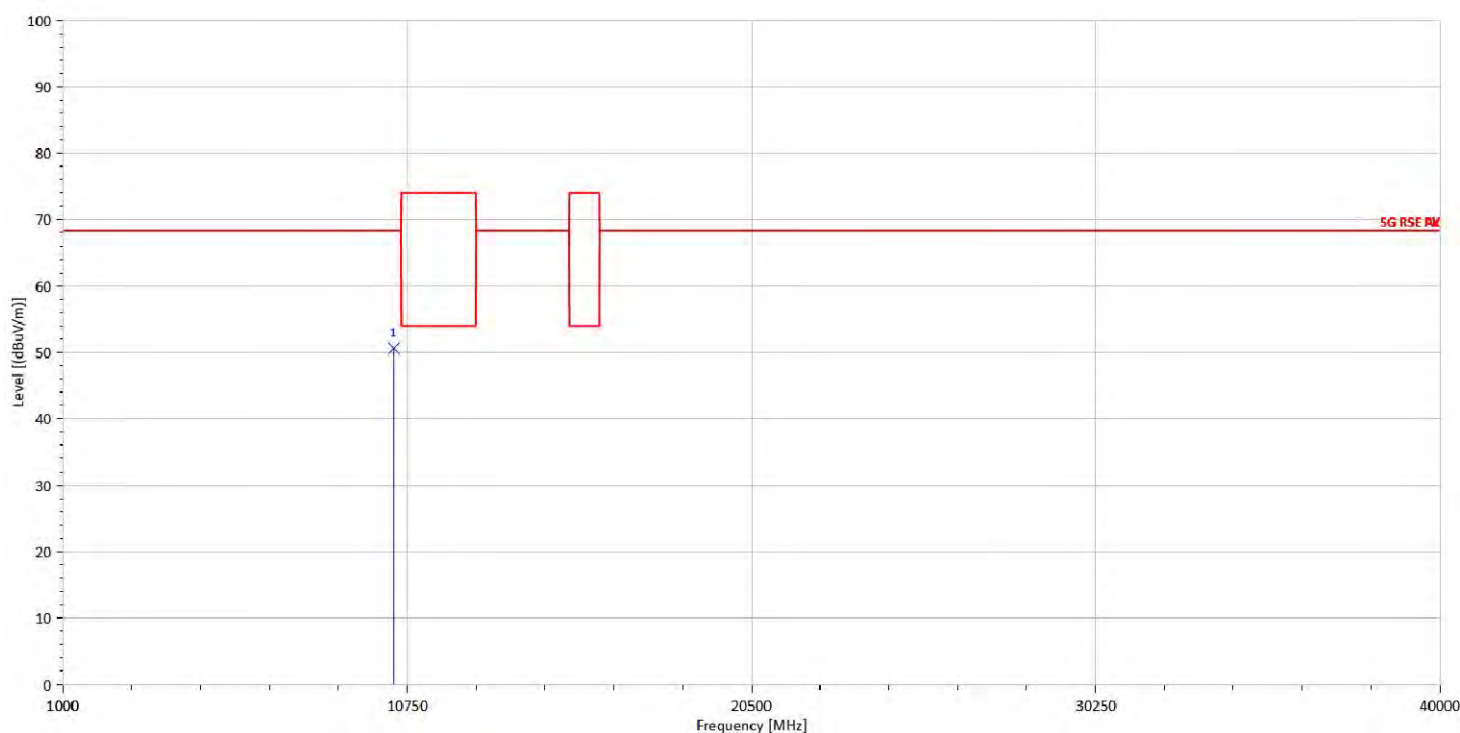
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Mode :	802.11n40B1	Test Date :	2018/1/16
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	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	dB μ V	dB	dB μ V/m	dB μ V/m	dB
10380.00	H	Peak	29.67	20.95	50.63	68.3	-17.67

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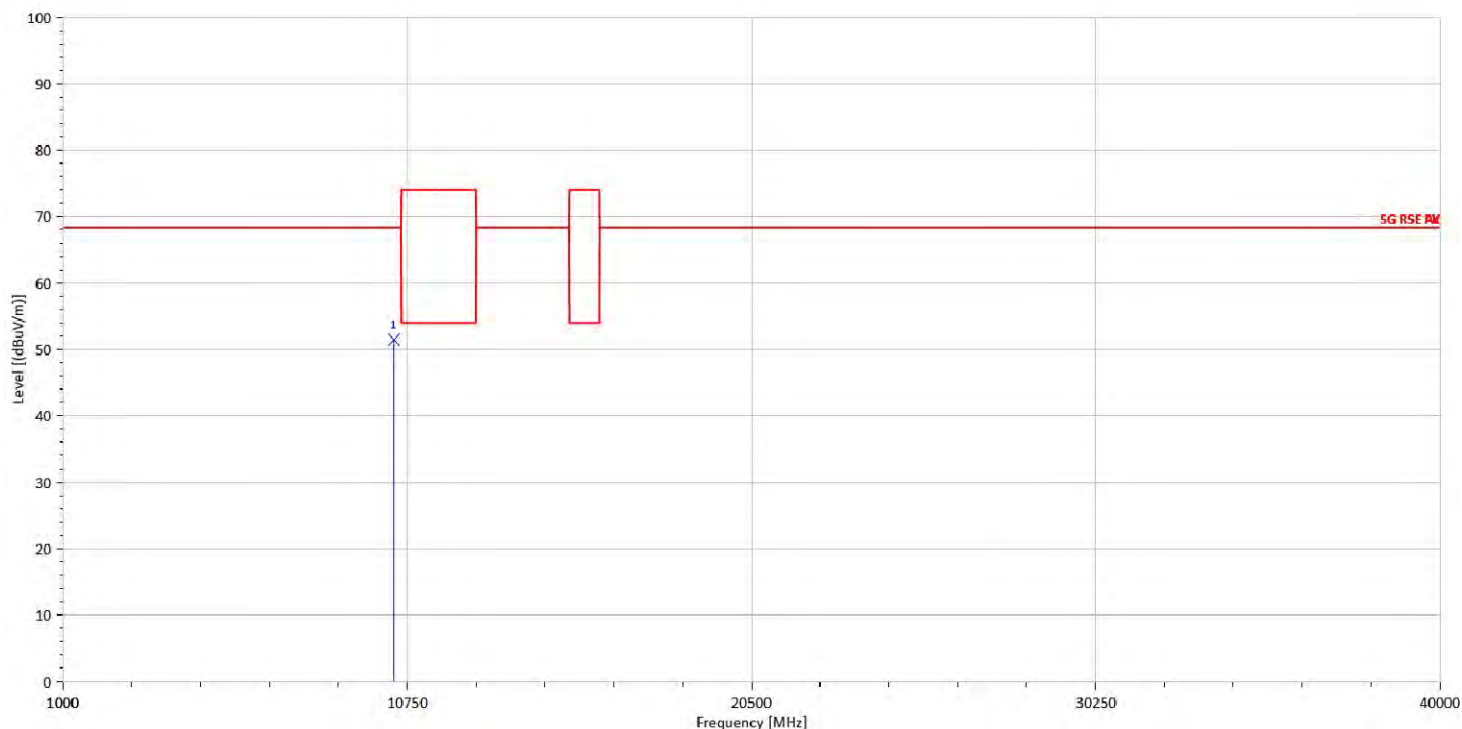
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Operation Mode :	802.11n40B1	Test Date :	2018/1/16
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



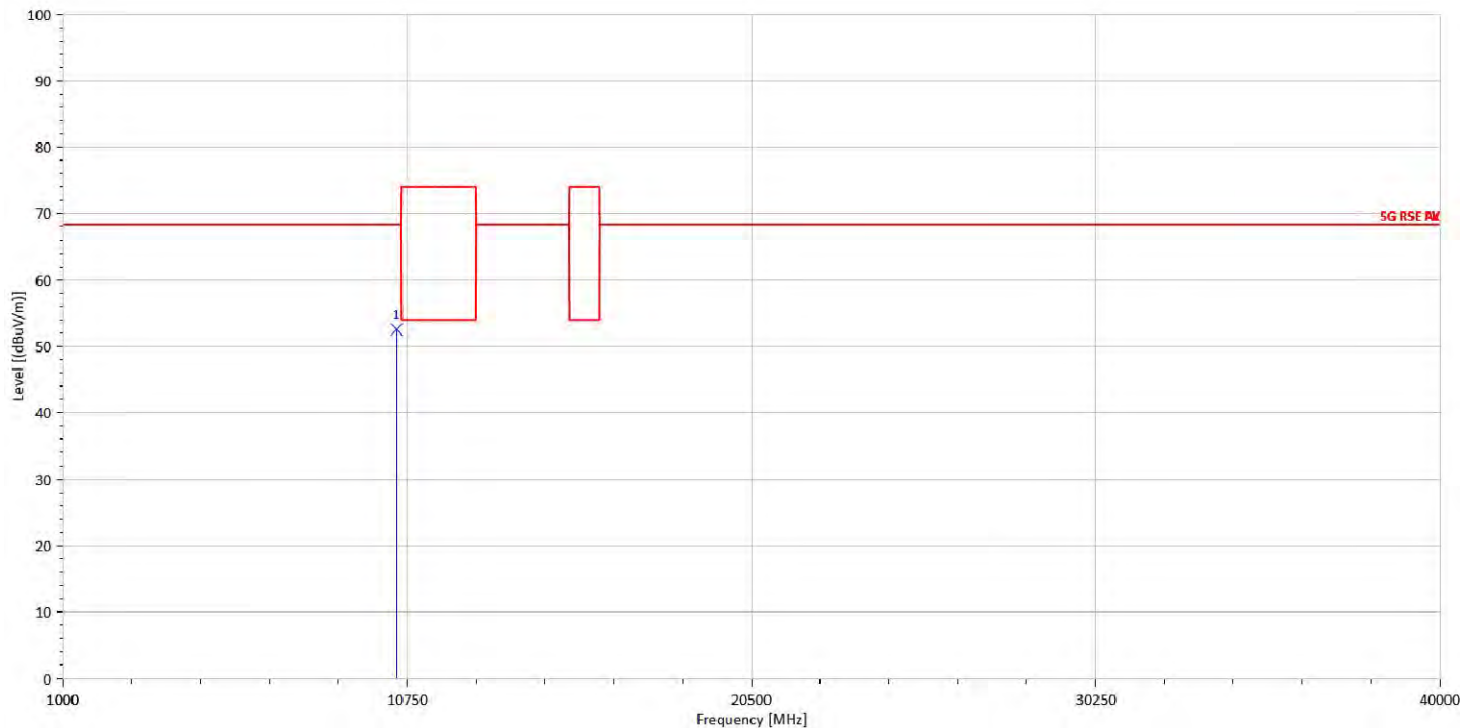
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
10380.00	H	Peak	30.51	20.95	51.46	68.3	-16.84

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Operation Mode :	802.11n40B1	Test Date :	2018/1/16
Fundamental Frequency :	5230 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



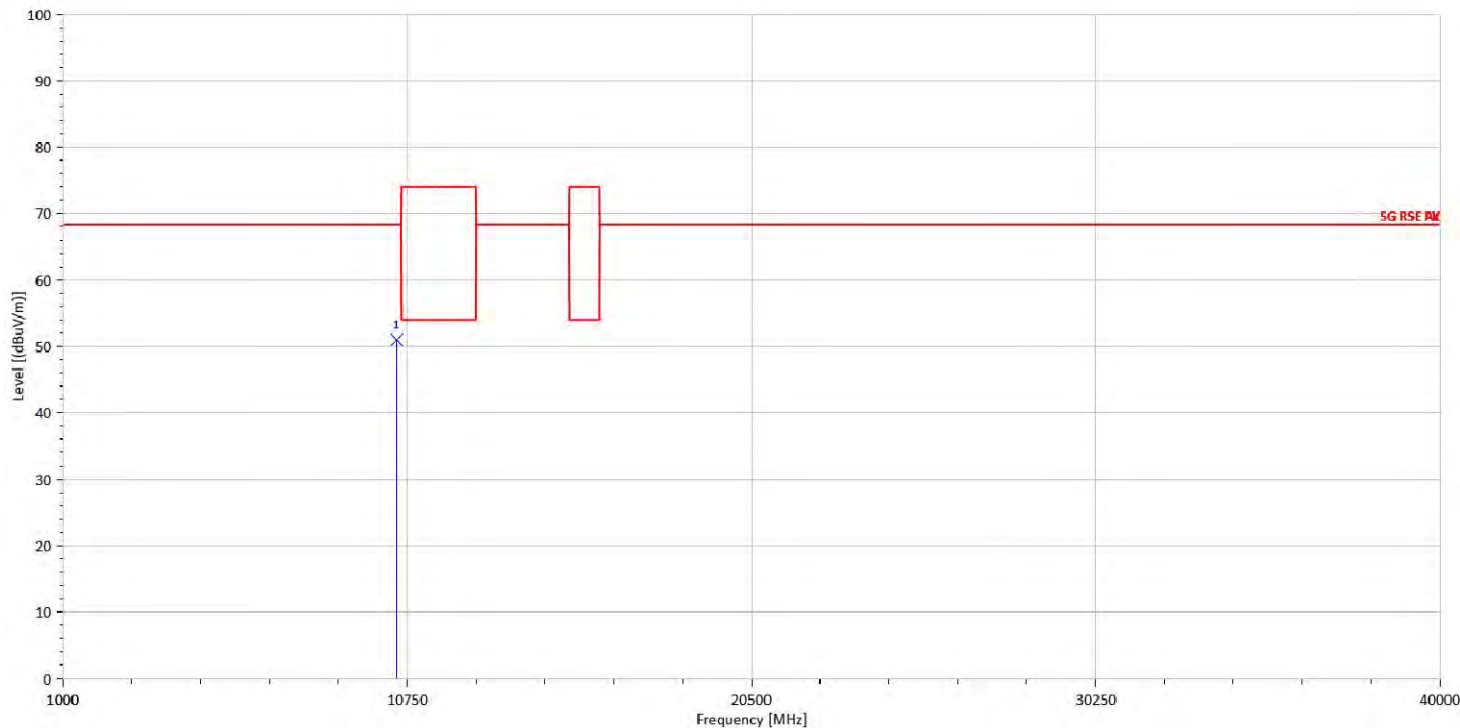
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10460.00	H	Peak	31.60	20.95	52.55	68.3	-15.75

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Operation Mode :	802.11n40B1	Test Date :	2018/1/16
Fundamental Frequency :	5230 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	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
10460.00	H	Peak	30.05	20.95	51.00	68.3	-17.30

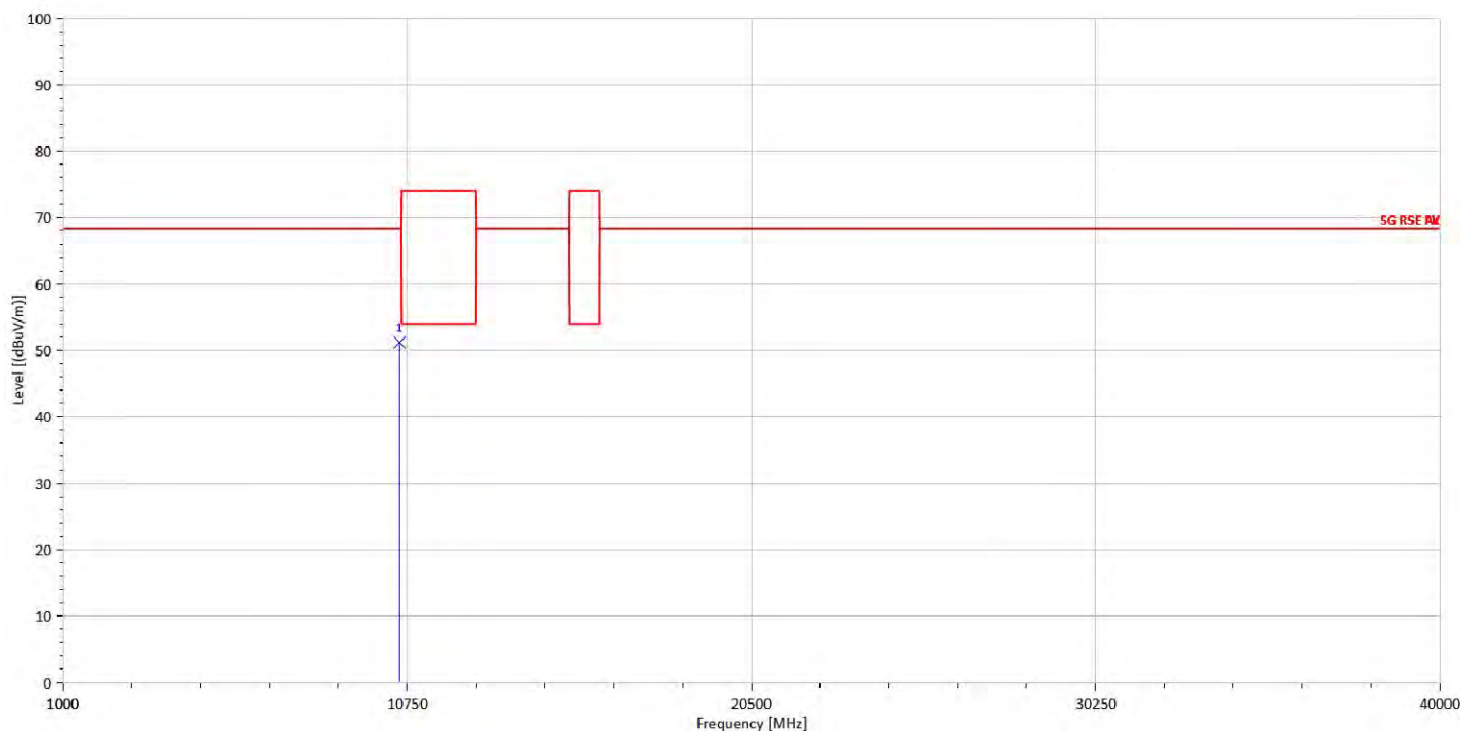
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

Operation Mode :	802.11n40B2	Test Date :	2018/1/16
Fundamental Frequency :	5270 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



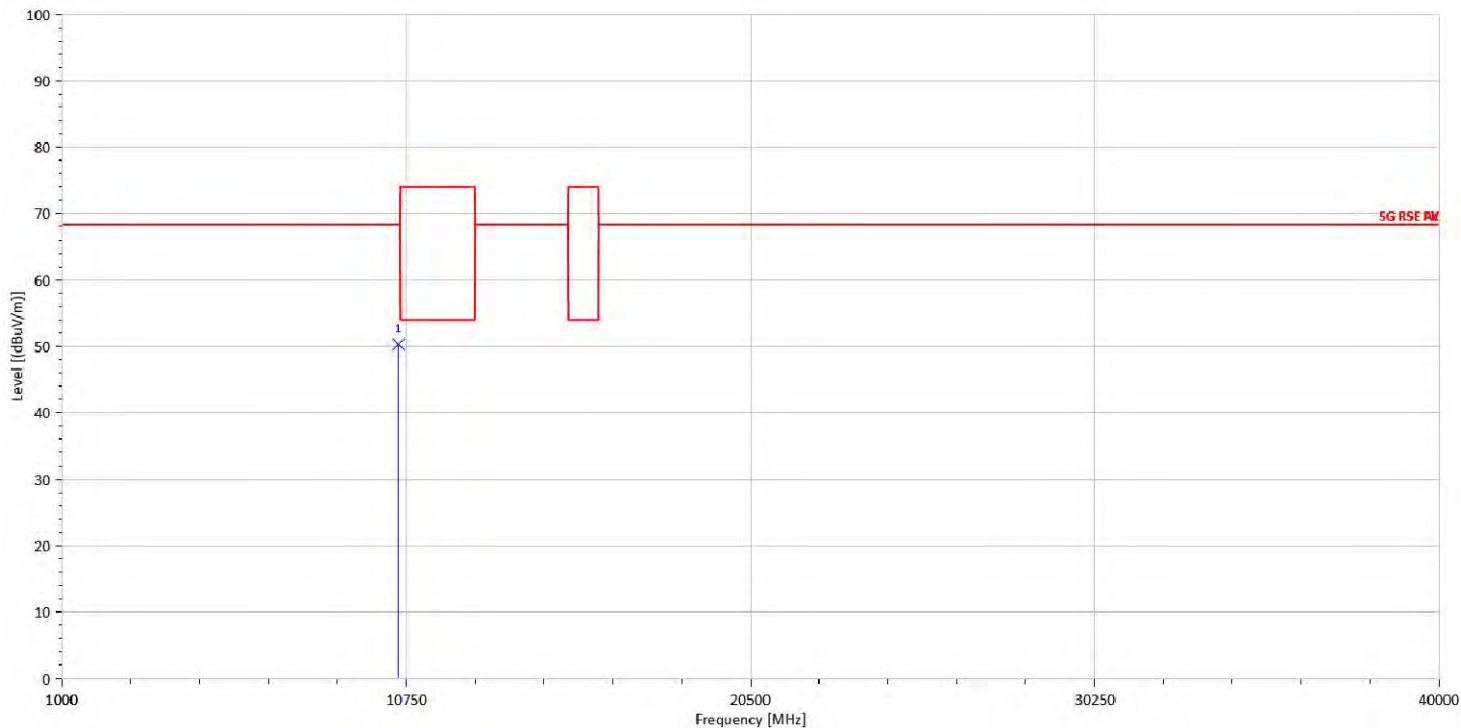
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
10540.00	H	Peak	31.14	20.06	51.20	68.3	-17.10

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Operation Mode :	802.11n40B2	Test Date :	2018/1/16
Fundamental Frequency :	5270 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



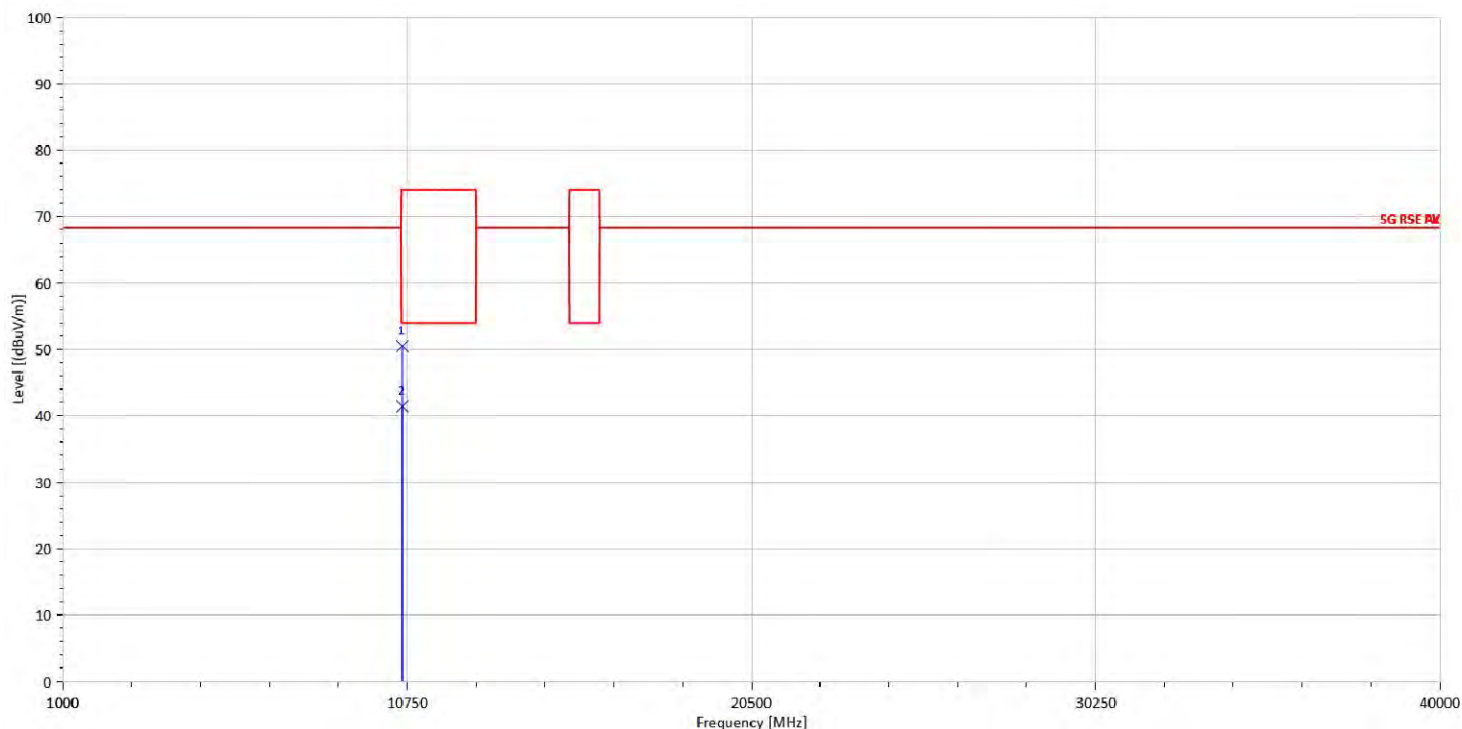
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10540.00	H	Peak	30.25	20.06	50.32	68.3	-17.98

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Operation Mode :	802.11n40B2	Test Date :	2018/1/16
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



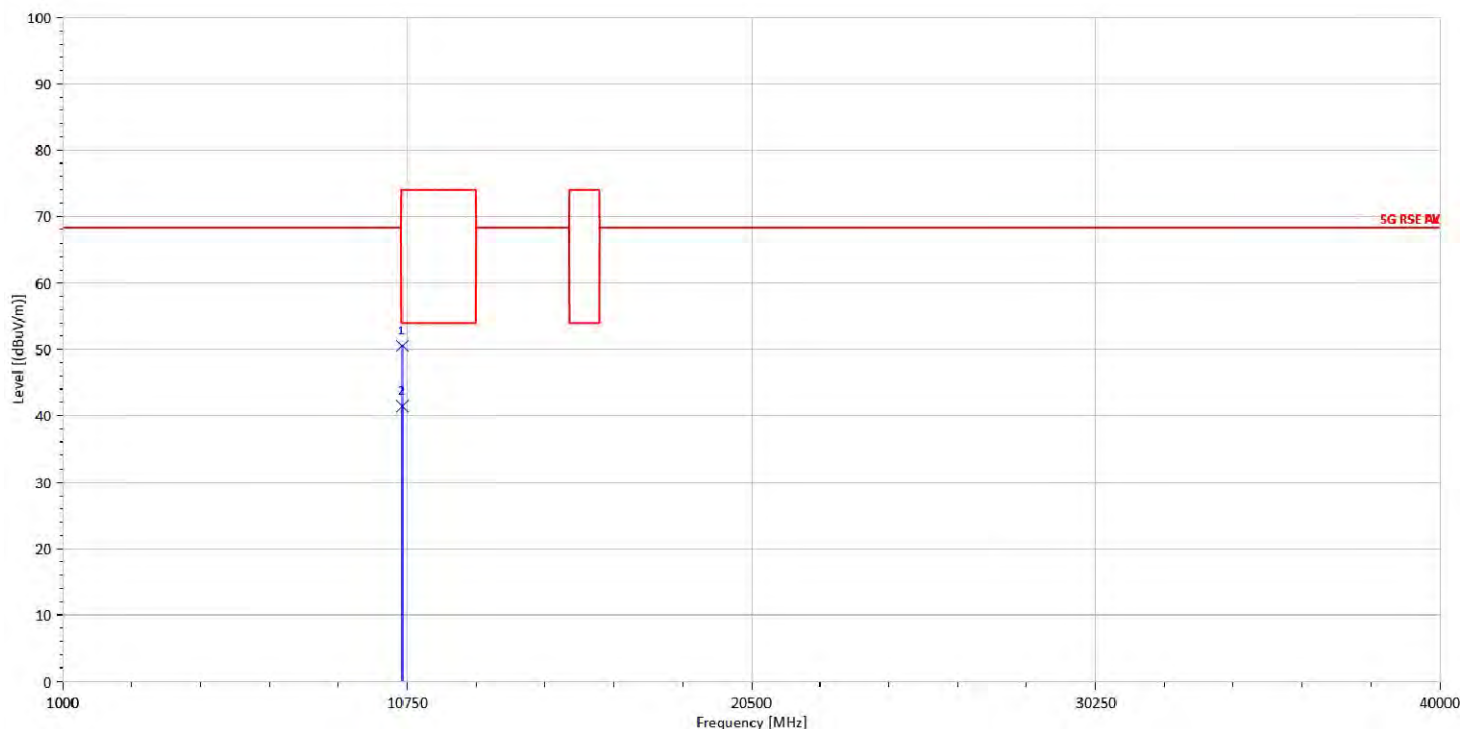
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10620.00	H	Peak	30.22	20.29	50.51	74	-23.49
10620.00	H	Average	21.15	20.29	41.44	54	-12.56

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Operation Mode :	802.11n40B2	Test Date :	2018/1/16
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	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
10620.00	H	Peak	30.26	20.29	50.55	74	-23.45
10620.00	H	Average	21.17	20.29	41.46	54	-12.54

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SGS Taiwan Ltd.

台灣檢驗科技股份有限公司

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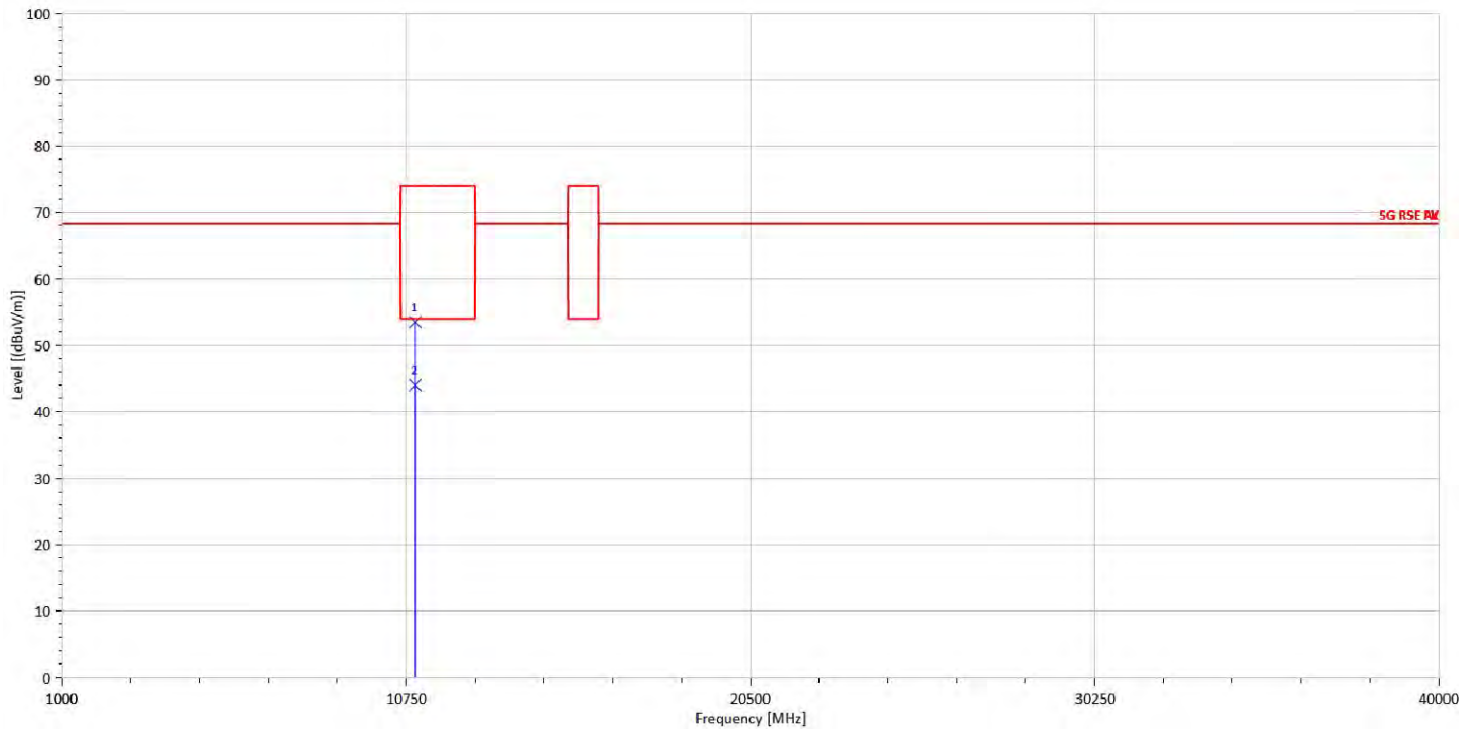
f (886-2) 2298-0488

www.tw.sgs.com

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

Operation Mode :	802.11n40B3	Test Date :	2018/1/16
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



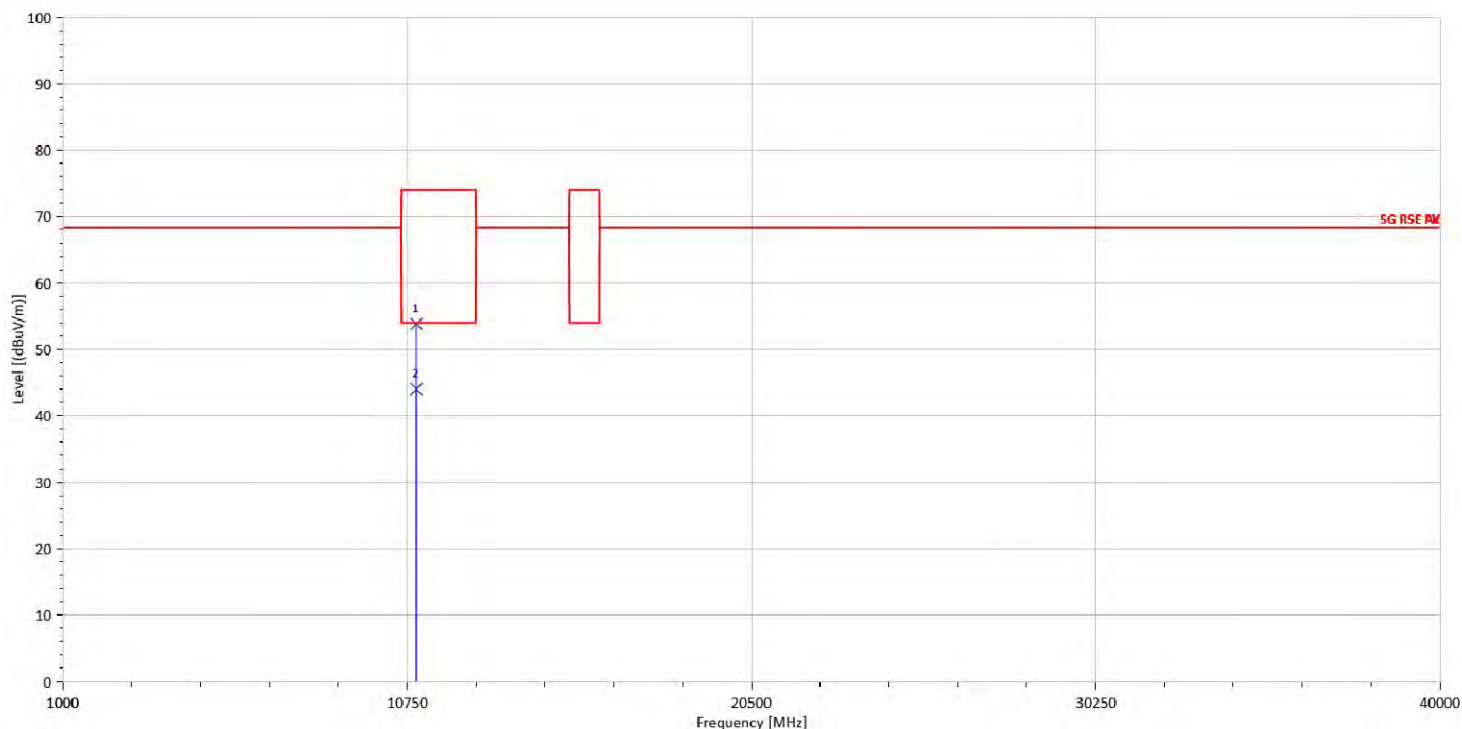
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11020.00	H	Peak	30.60	22.90	53.50	74	-20.50
11020.00	H	Average	21.12	22.90	44.02	54	-9.98

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Operation Mode :	802.11n40B3	Test Date :	2018/1/16
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



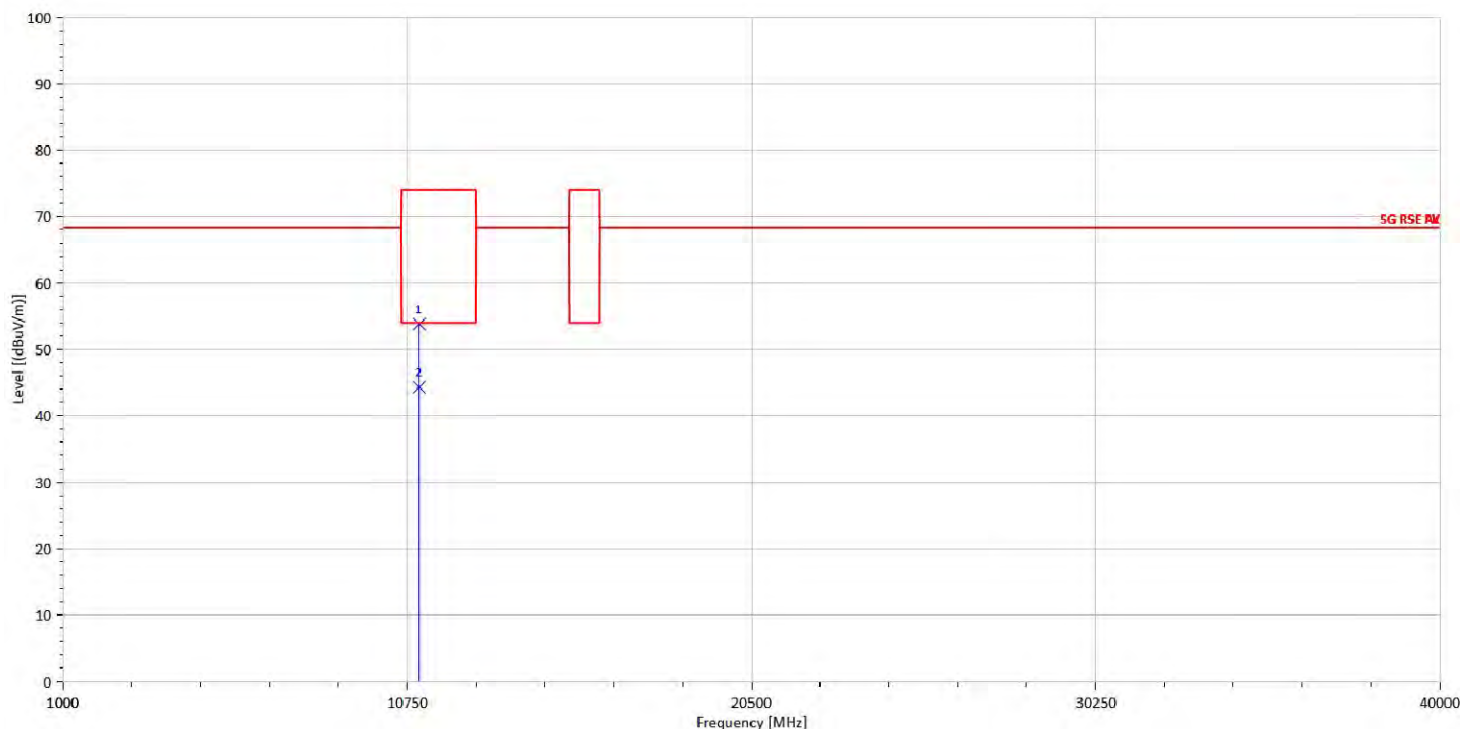
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11020.00	H	Peak	30.94	22.90	53.84	74	-20.16
11020.00	H	Average	21.13	22.90	44.03	54	-9.97

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Operation Mode :	802.11n40B3	Test Date :	2018/1/16
Fundamental Frequency :	5550 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



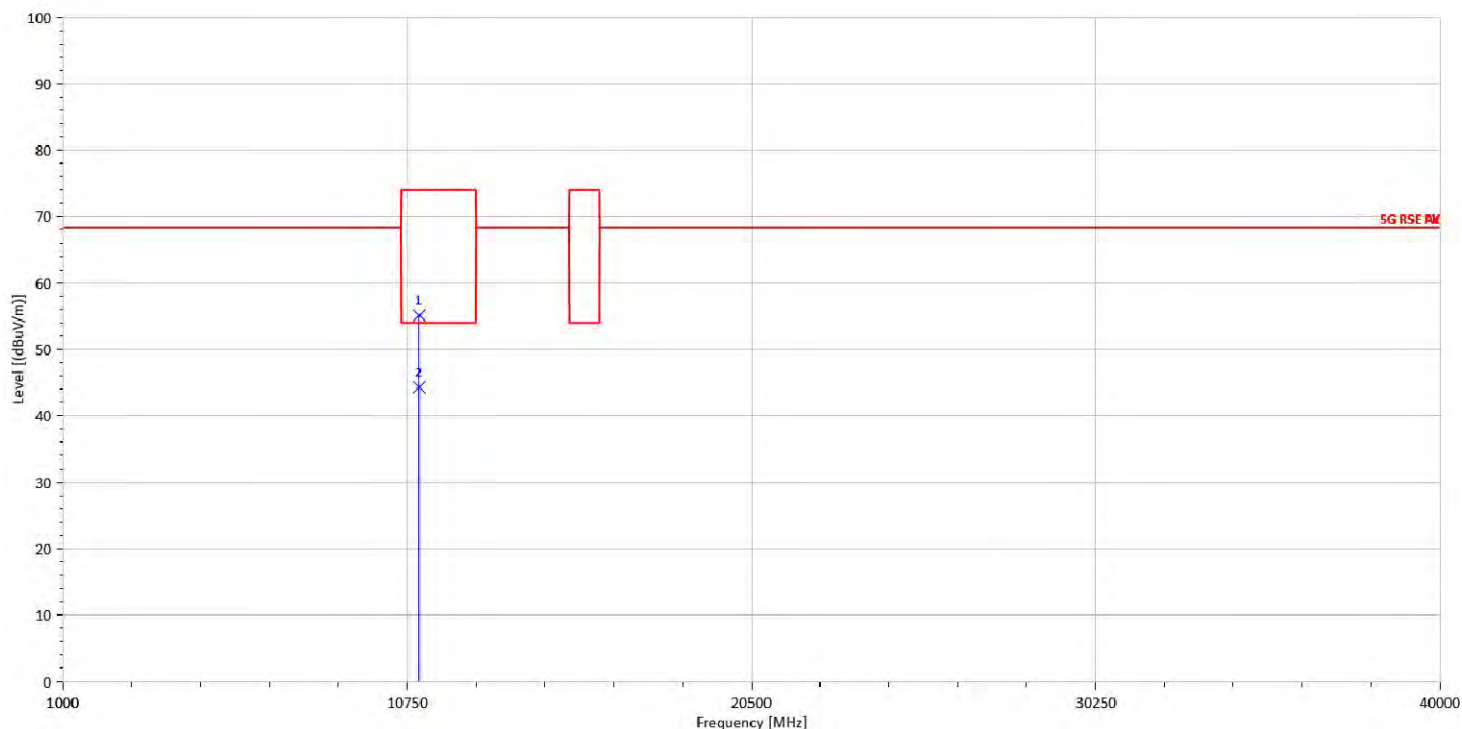
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11100.00	H	Peak	30.65	23.16	53.82	74	-20.18
11100.00	H	Average	21.16	23.16	44.32	54	-9.68

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Operation Mode :	802.11n40B3	Test Date :	2018/1/16
Fundamental Frequency :	5550 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



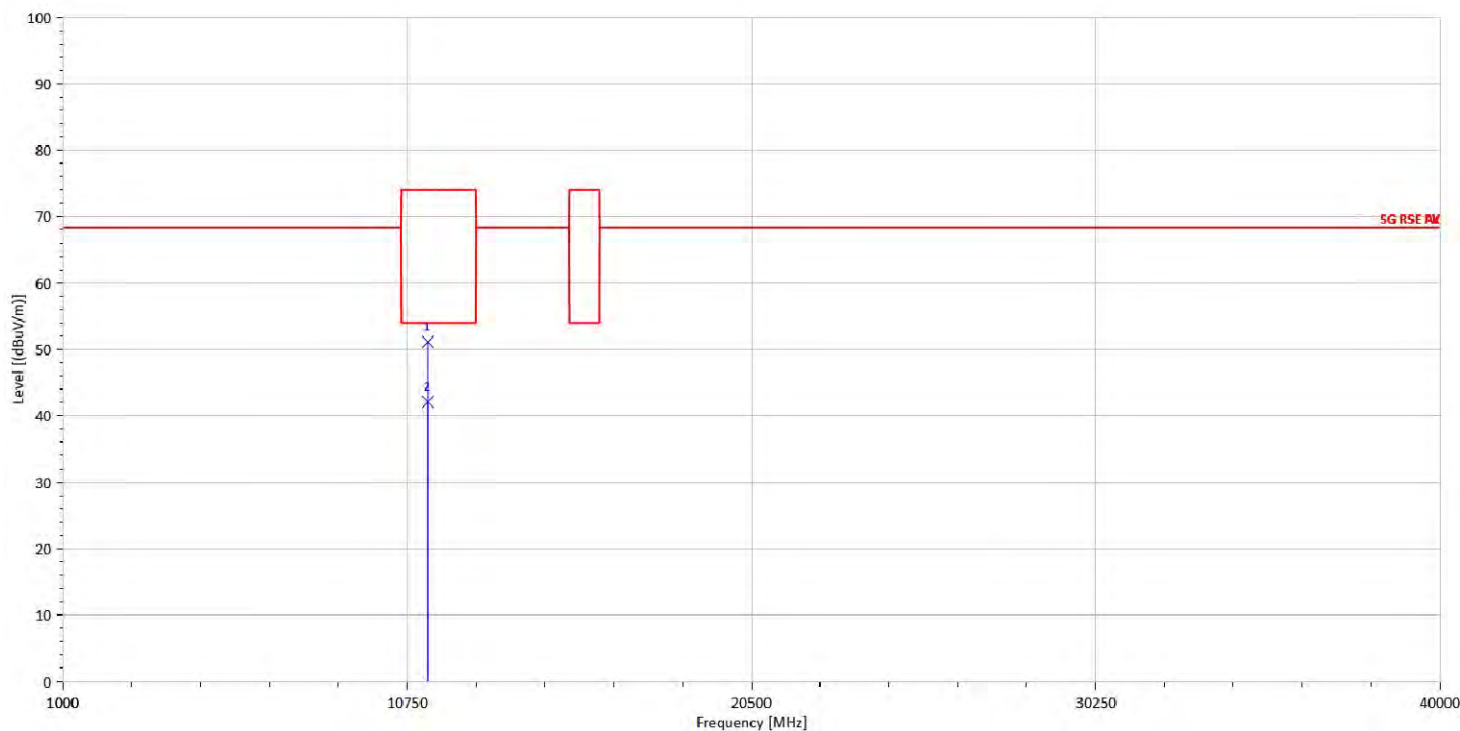
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11100.00	H	Peak	31.96	23.16	55.12	74	-18.88
11100.00	H	Average	21.15	23.16	44.31	54	-9.69

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Operation Mode :	802.11n40B3	Test Date :	2018/1/16
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



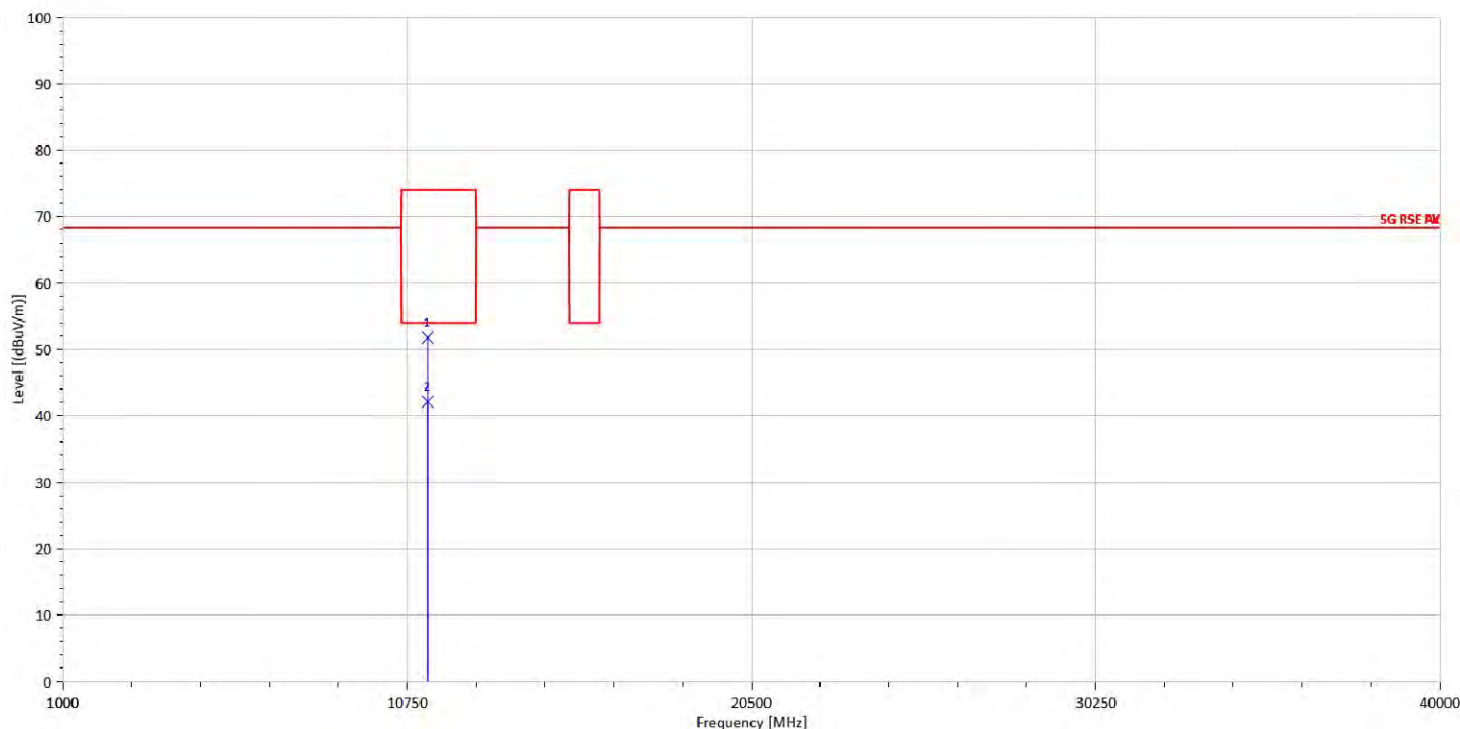
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11340.00	H	Peak	30.15	20.97	51.12	74	-22.88
11340.00	H	Average	21.13	20.97	42.10	54	-11.90

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Operation Mode :	802.11n40B3	Test Date :	2018/1/16
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



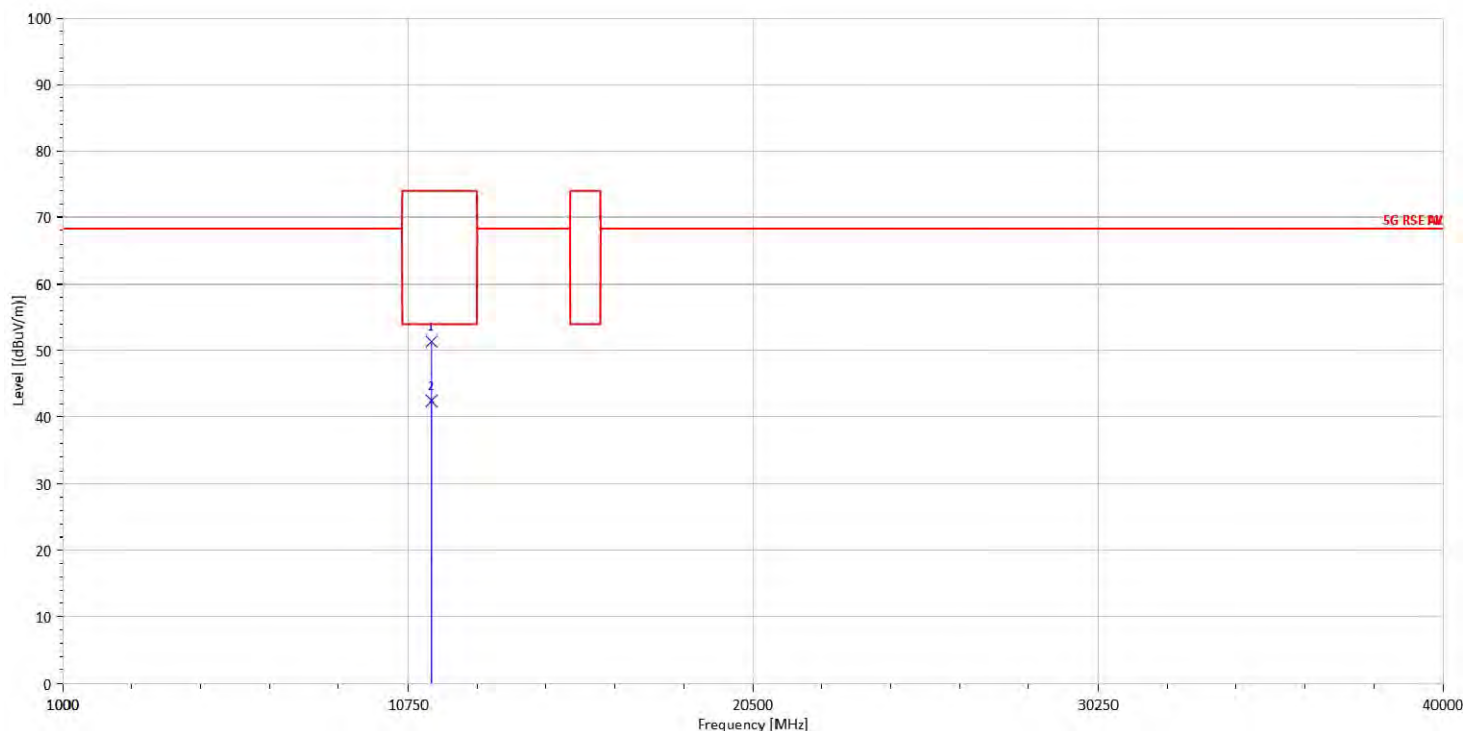
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11340.00	H	Peak	30.80	20.97	51.76	74	-22.24
11340.00	H	Average	21.16	20.97	42.13	54	-11.87

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Operation Mode : 802.11n40B3 Test Date : 2018/2/7
 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



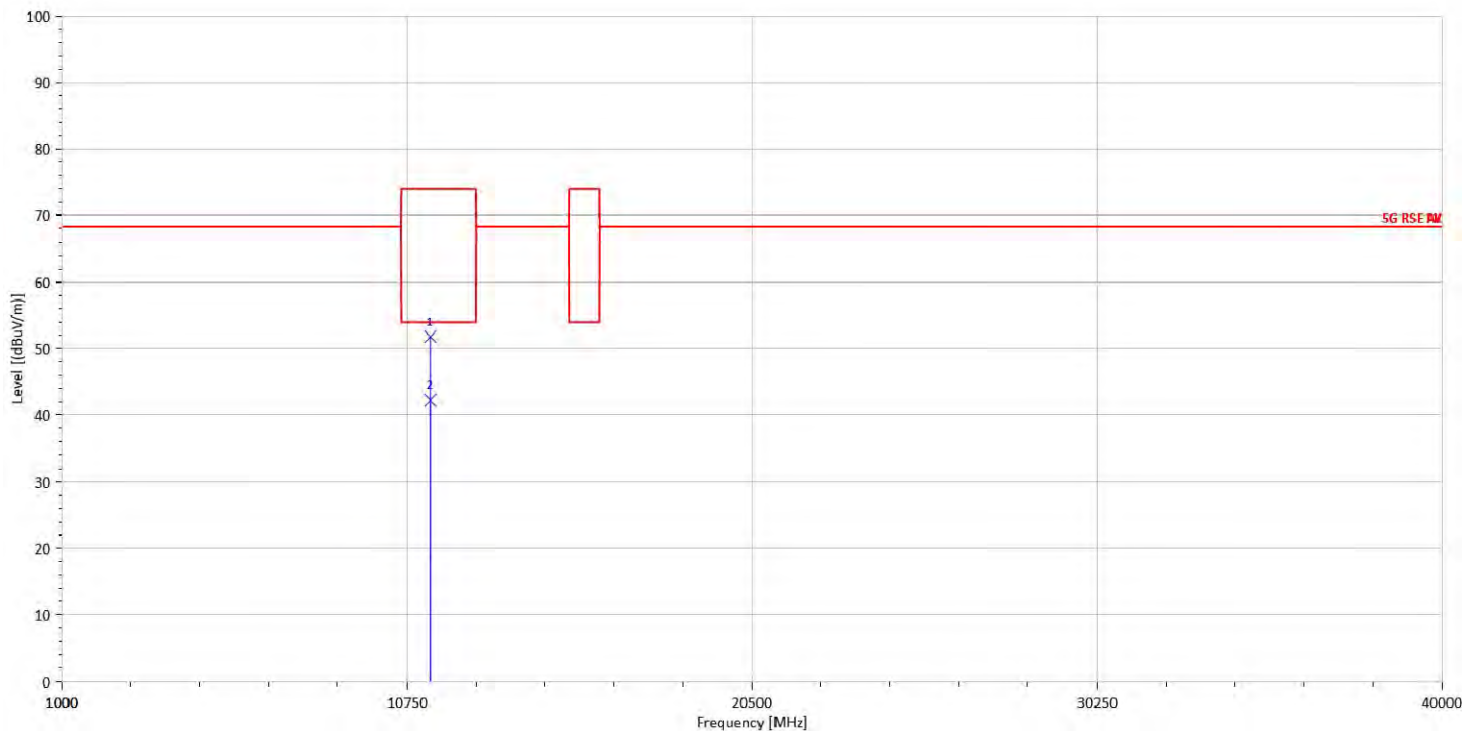
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11420.00	H	Peak	30.28	21.09	51.37	74	-22.63
11420.00	H	Average	21.38	21.09	42.47	54	-11.53

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Operation Mode : 802.11n40B3 Test Date : 2018/2/7
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.	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
11420.00	H	Peak	30.69	21.09	51.78	74	-22.22
11420.00	H	Average	21.16	21.09	42.25	54	-11.75

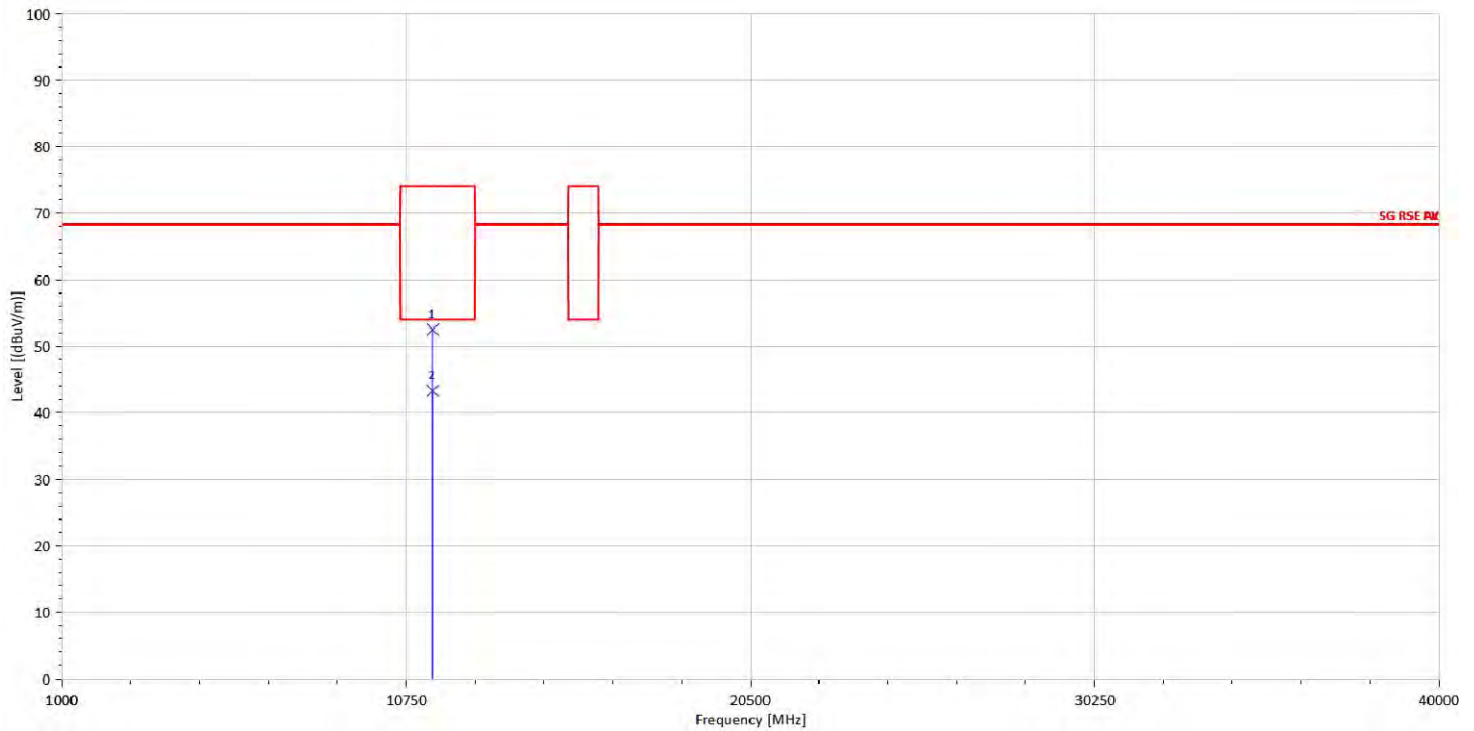
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

Operation Mode :	802.11n40B4	Test Date :	2018/1/16
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



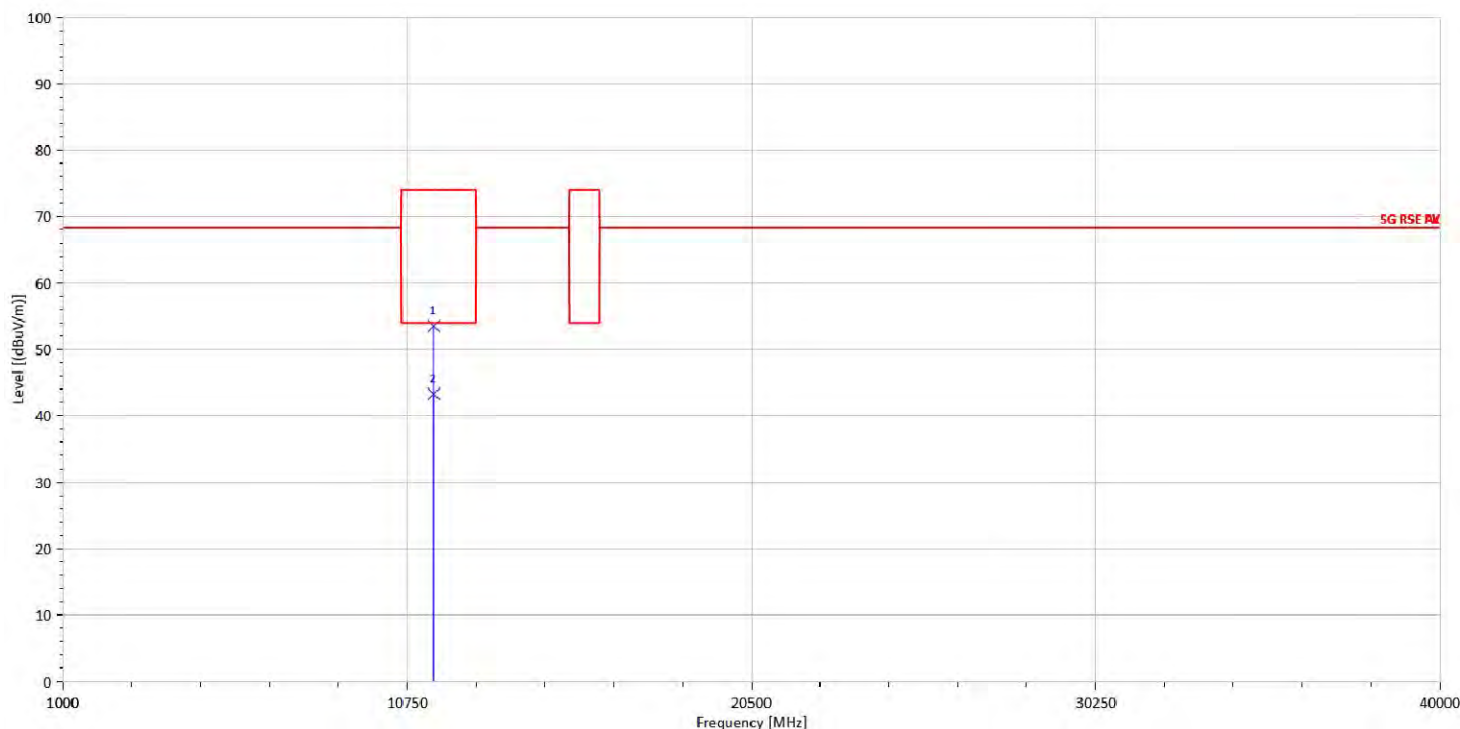
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
11510.00	H	Peak	30.34	22.17	52.50	74	-21.50
11510.00	H	Peak	21.11	22.17	43.28	74	-30.72

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Operation Mode :	802.11n40B4	Test Date :	2018/1/16
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



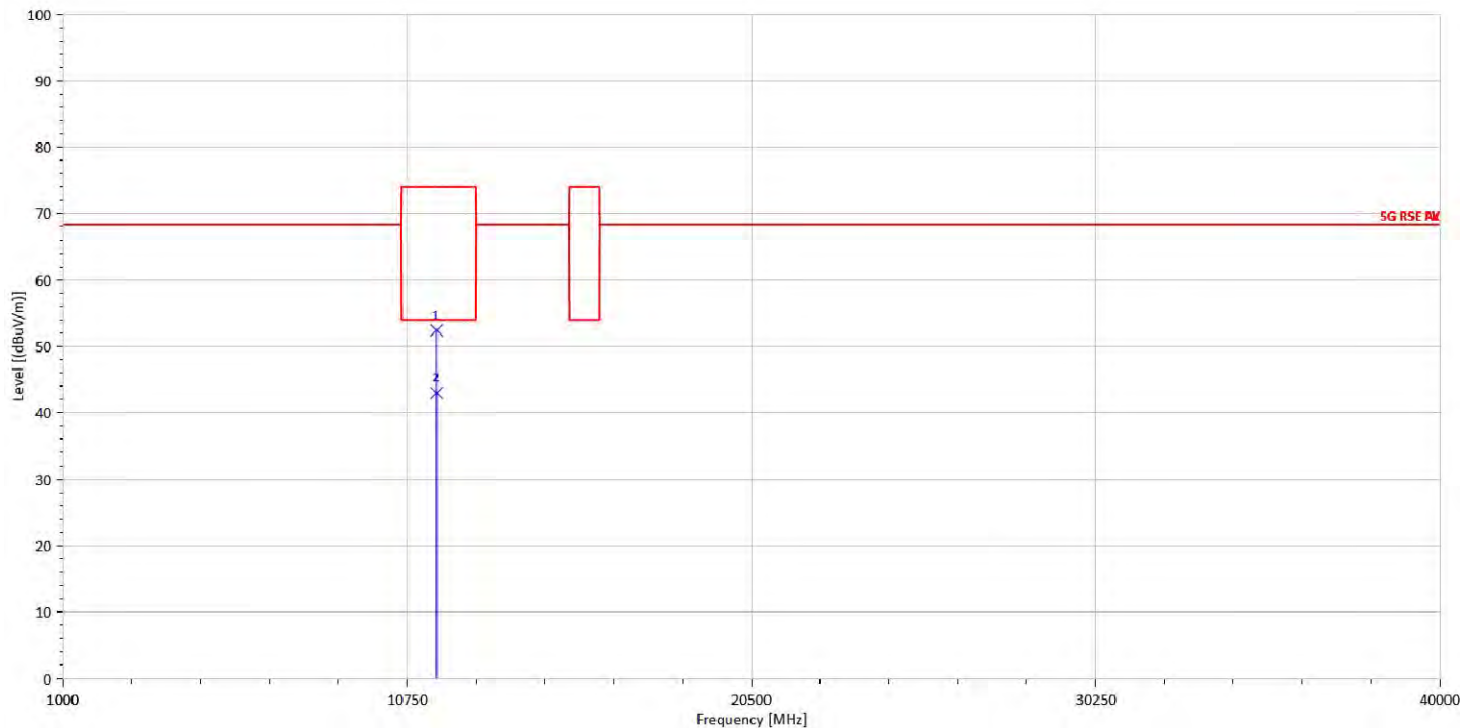
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11510.00	H	Peak	31.37	22.17	53.53	74	-20.47
11510.00	H	Average	21.13	22.17	43.30	54	-10.70

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Operation Mode :	802.11n40B4	Test Date :	2018/1/16
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



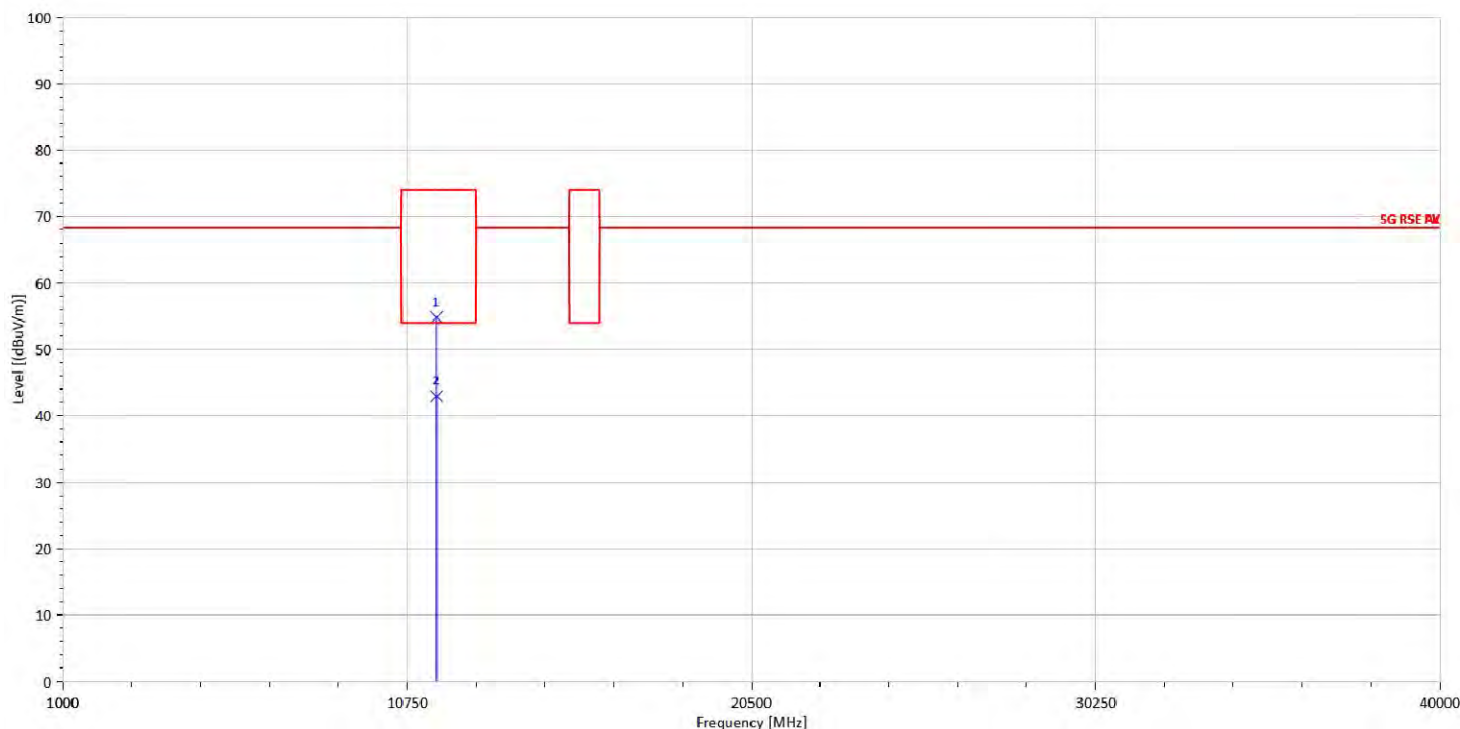
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11590.00	H	Peak	30.59	21.84	52.44	74	-21.56
11590.00	H	Average	21.16	21.84	43.00	54	-11.00

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Operation Mode :	802.11n40B4	Test Date :	2018/1/16
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	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	
11590.00	H	Peak	32.98	21.84	54.83	74	-19.17
11590.00	H	Average	21.12	21.84	42.96	54	-11.04

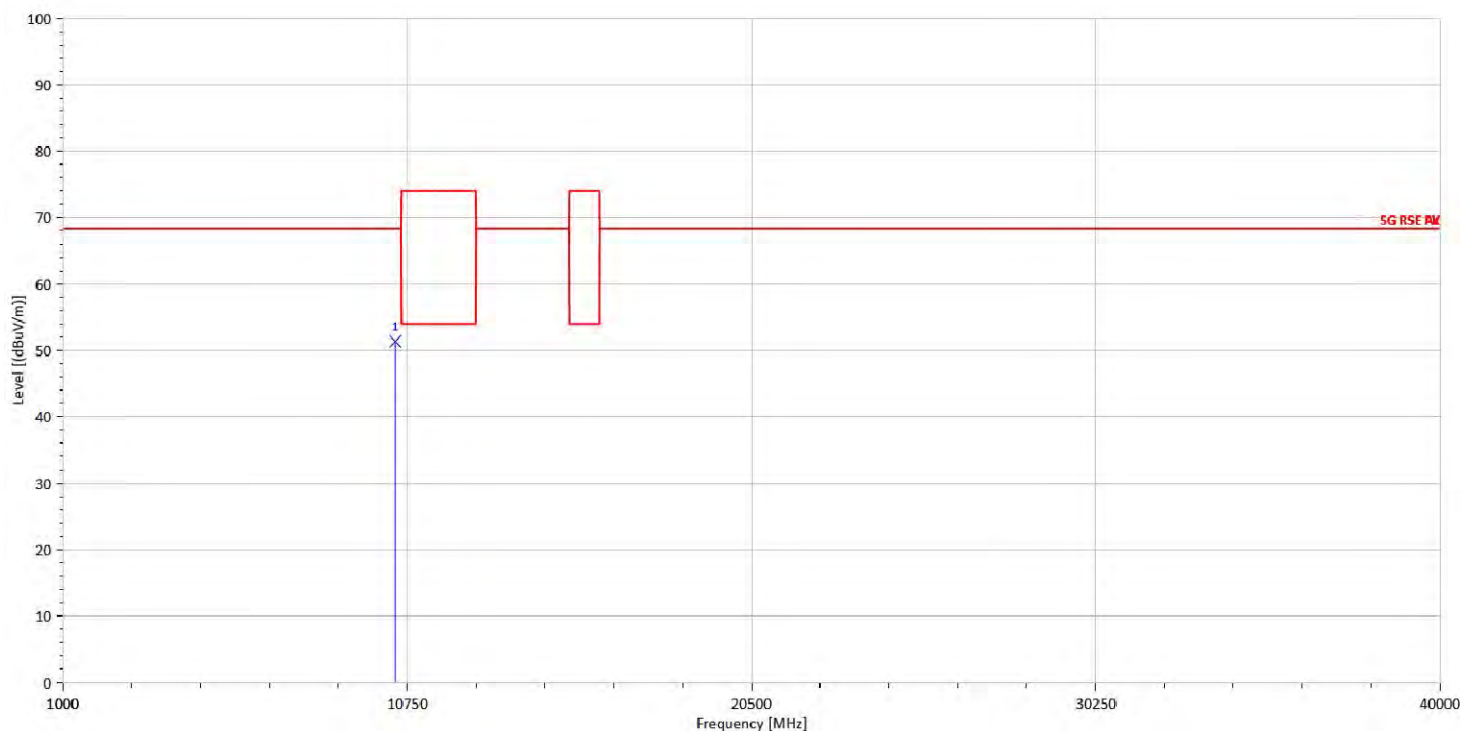
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Mode :	802.11ac80B1	Test Date :	2018/1/16
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



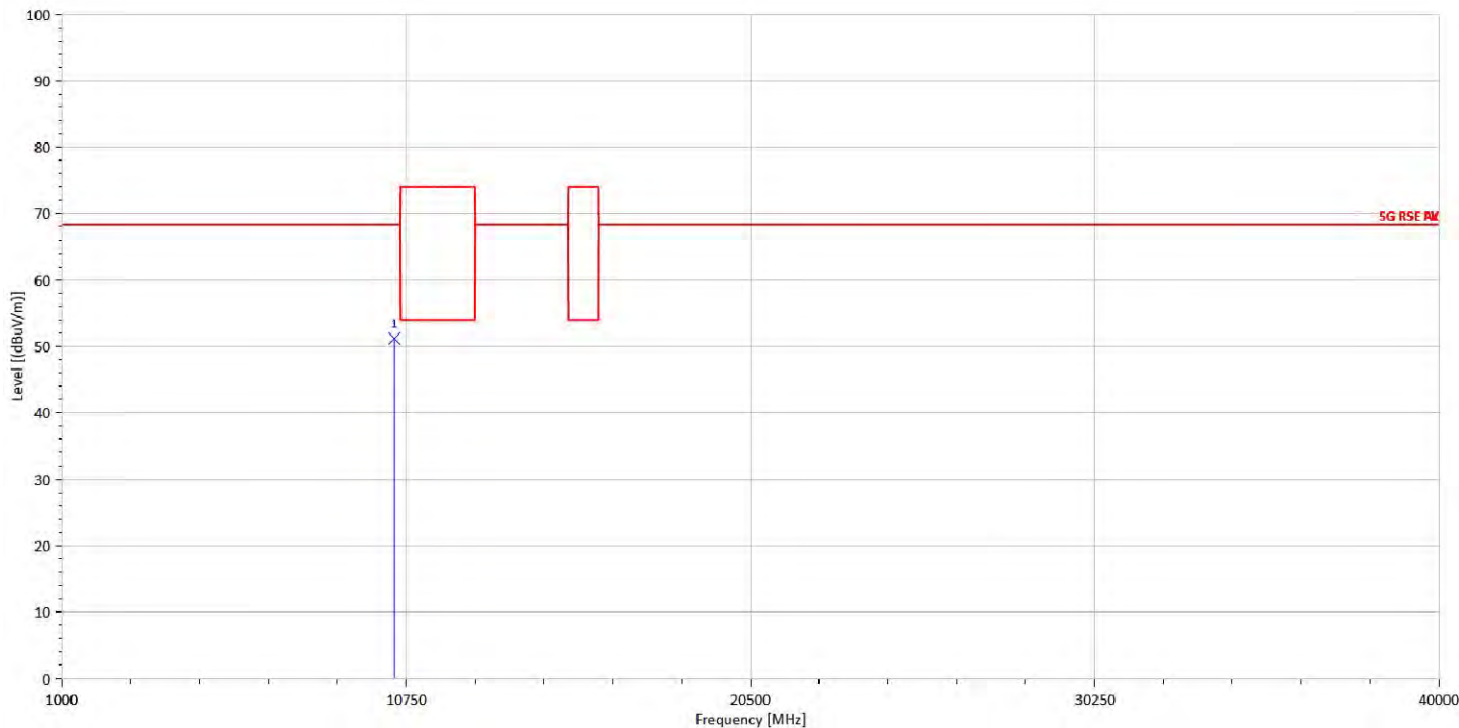
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10420.00	H	Peak	30.68	20.67	51.35	68.3	-16.95

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Operation Mode : 802.11ac80B1 Test Date : 2018/1/16
Fundamental Frequency : 5210 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : H 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
10420.00	H	Peak	30.52	20.67	51.19	68.3	-17.11

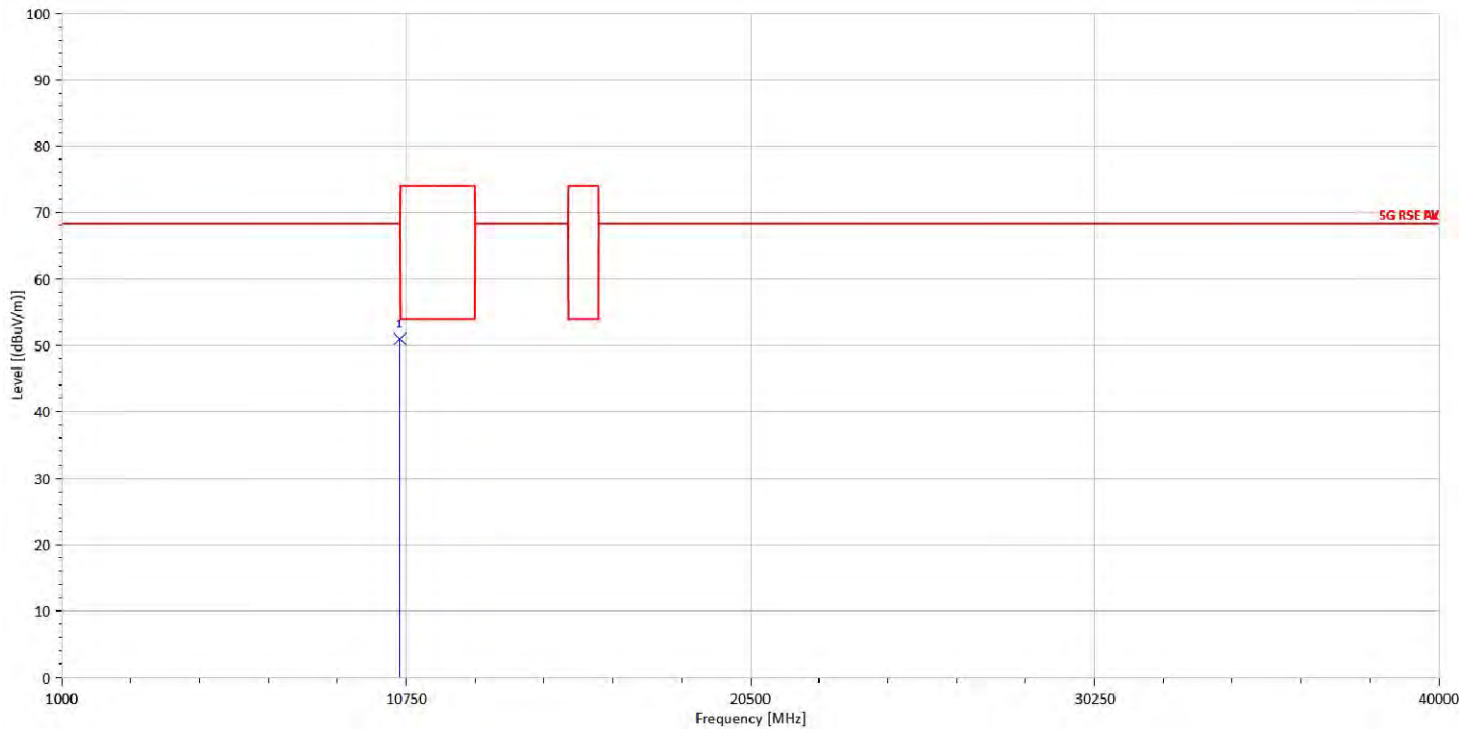
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

Operation Mode :	802.11ac80B2	Test Date :	2018/1/16
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



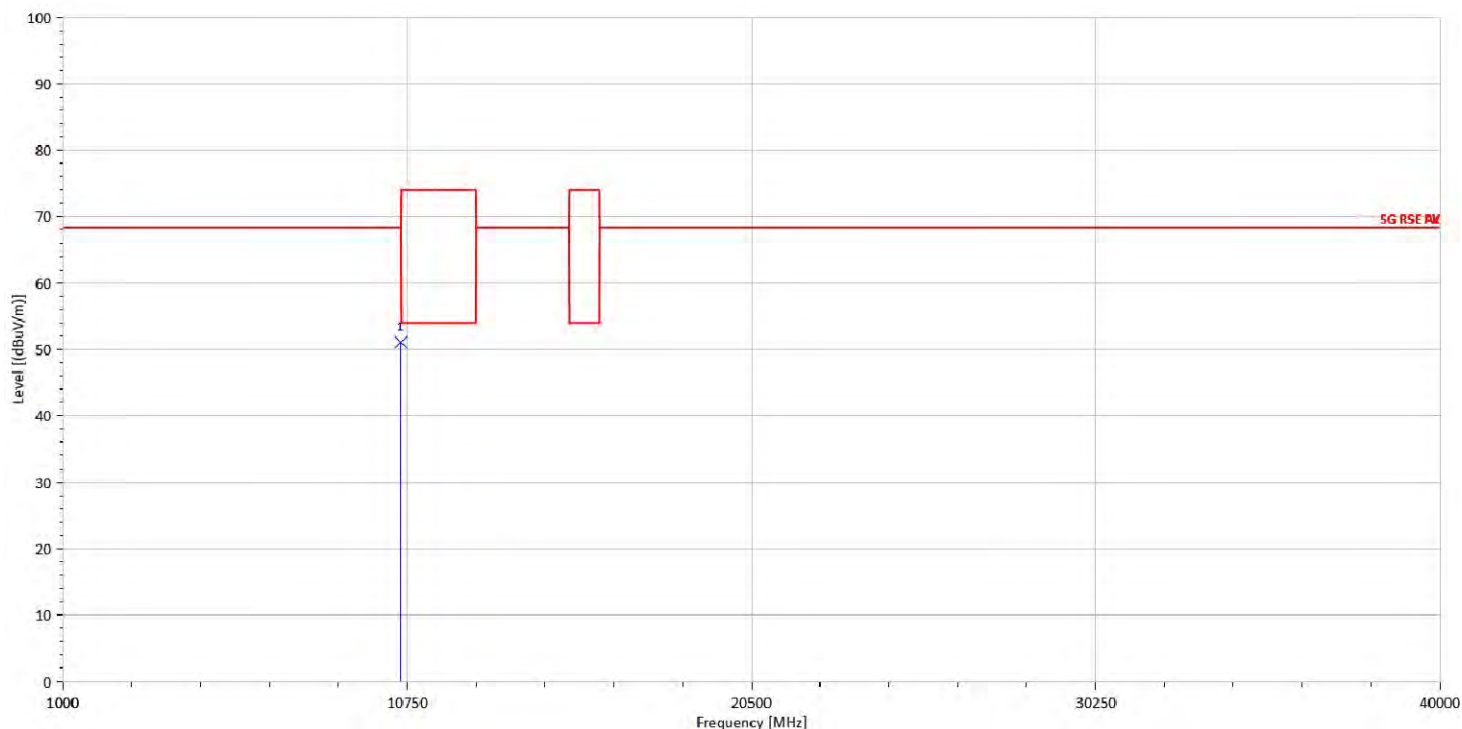
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10580.00	H	Peak	30.87	20.12	50.99	68.3	-17.31

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Operation Mode :	802.11ac80B2	Test Date :	2018/1/16
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	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
10580.00	H	Peak	30.96	20.12	51.08	68.3	-17.22

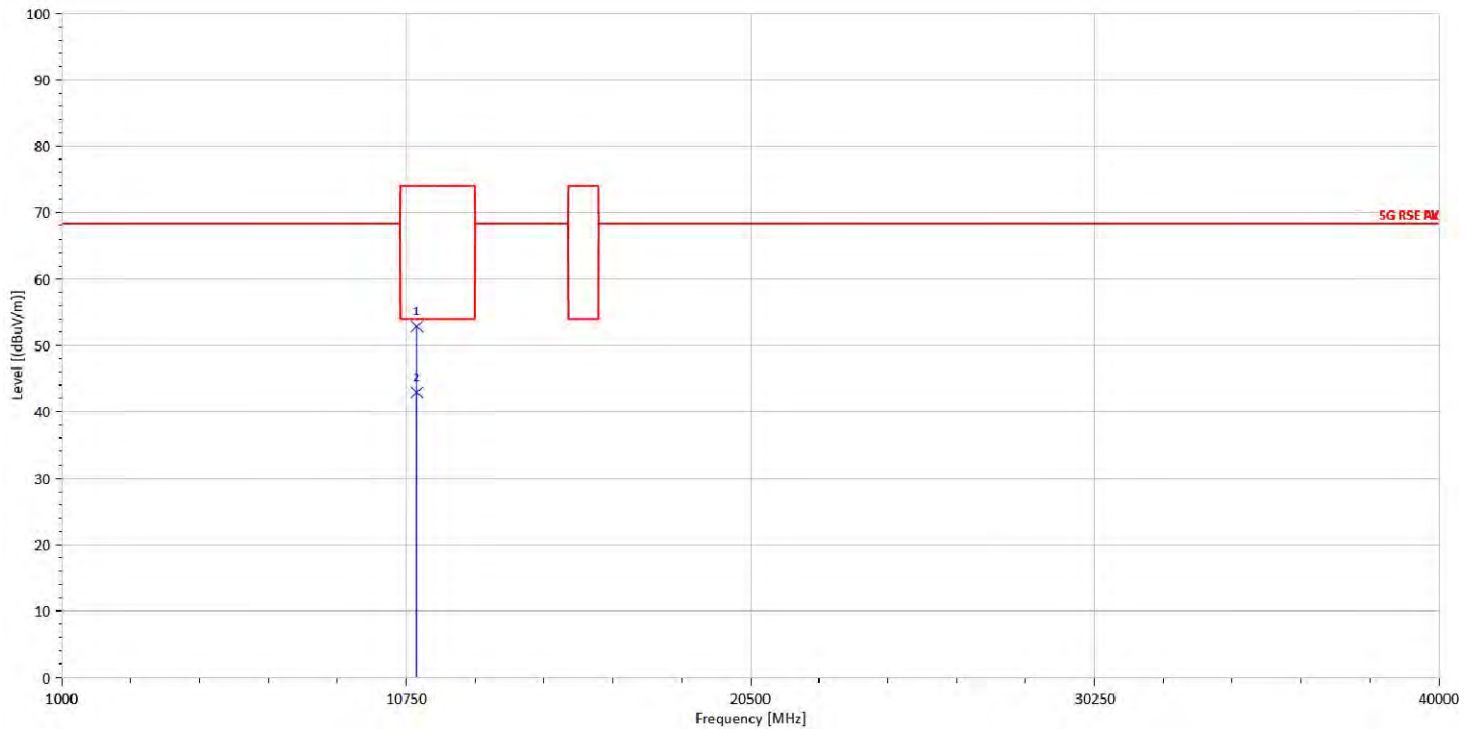
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

Operation Mode :	802.11ac80B3	Test Date :	2018/1/16
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11060.00	H	Peak	31.02	21.83	52.85	74	-21.15
11060.00	H	Average	21.11	21.83	42.94	54	-11.06

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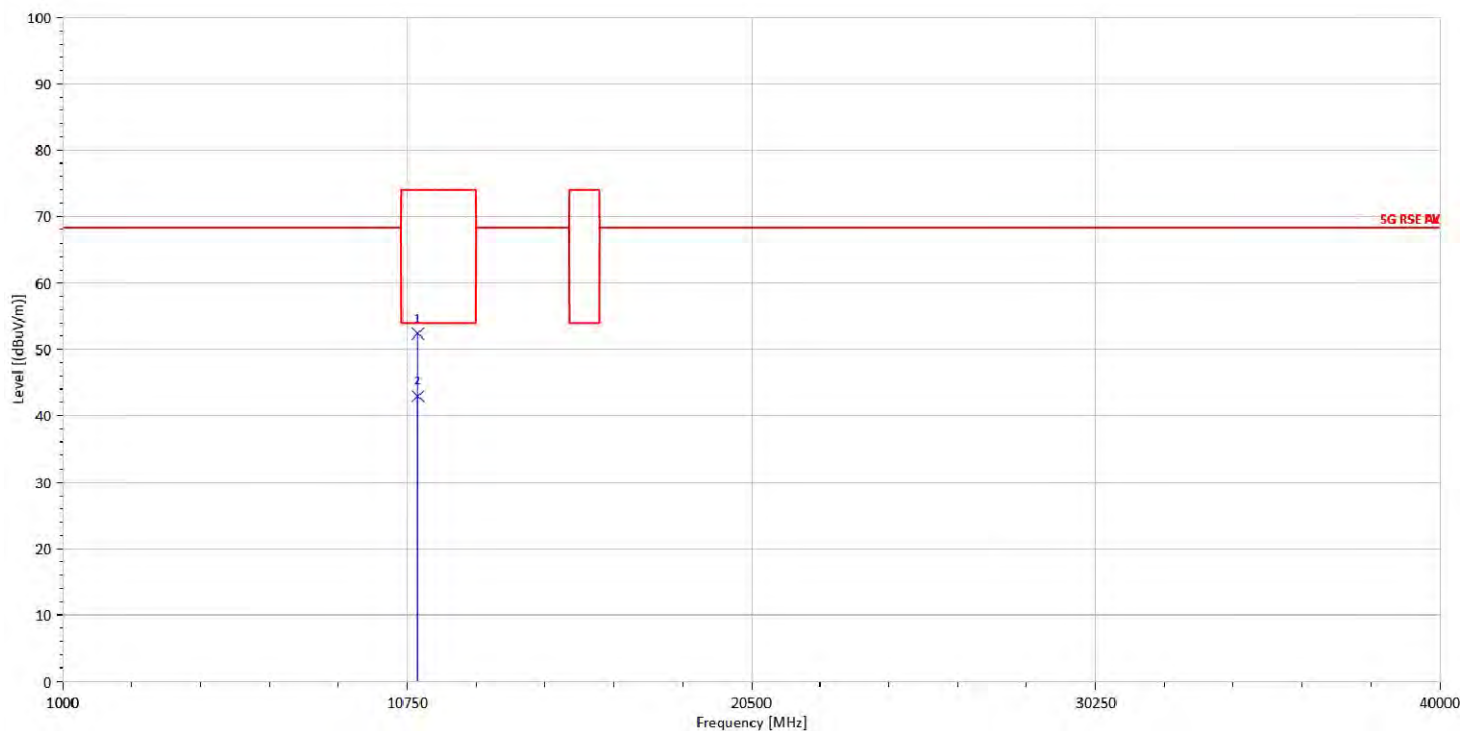
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Operation Mode :	802.11ac80B3	Test Date :	2018/1/16
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



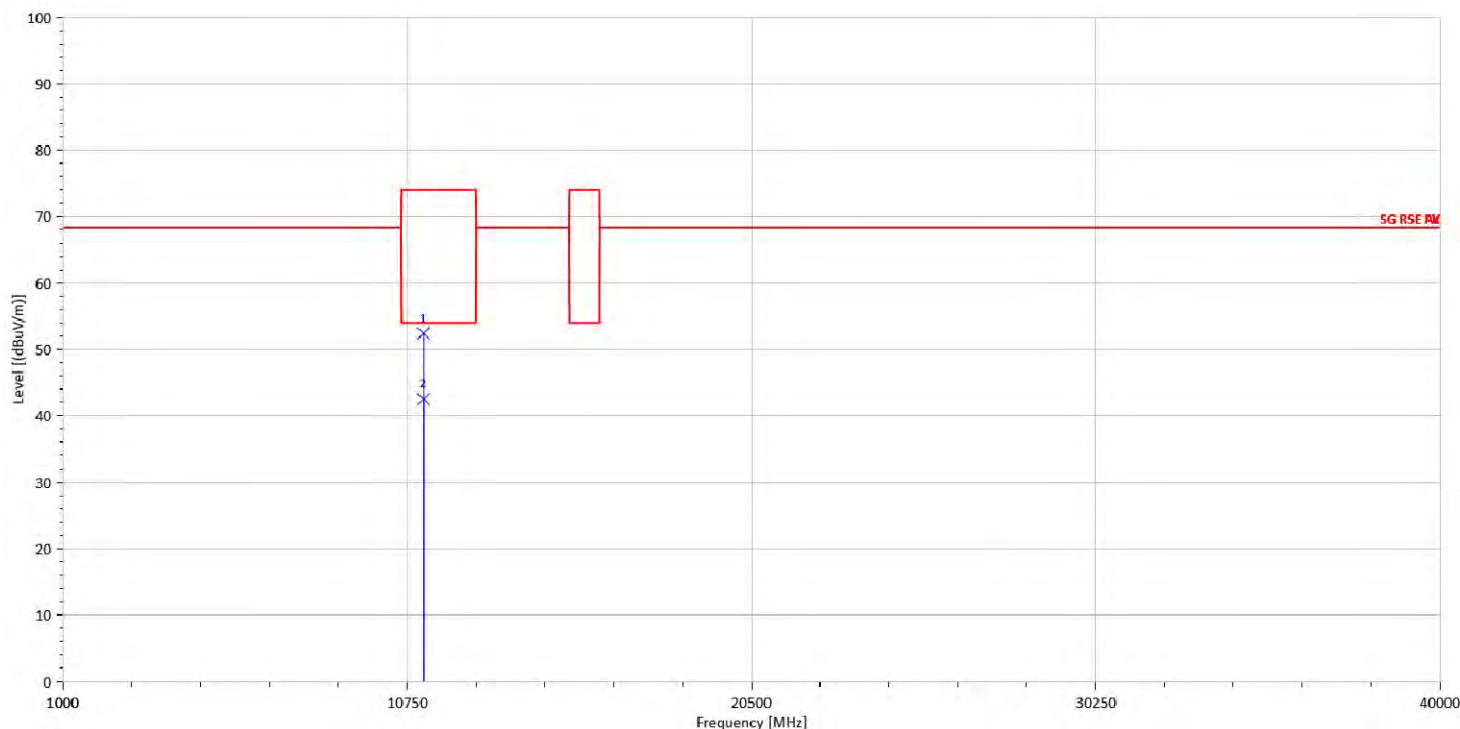
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11060.00	H	Peak	30.55	21.83	52.39	74	-21.61
11060.00	H	Average	21.14	21.83	42.97	54	-11.03

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Operation Mode :	802.11ac80B3	Test Date :	2018/1/16
Fundamental Frequency :	5610 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



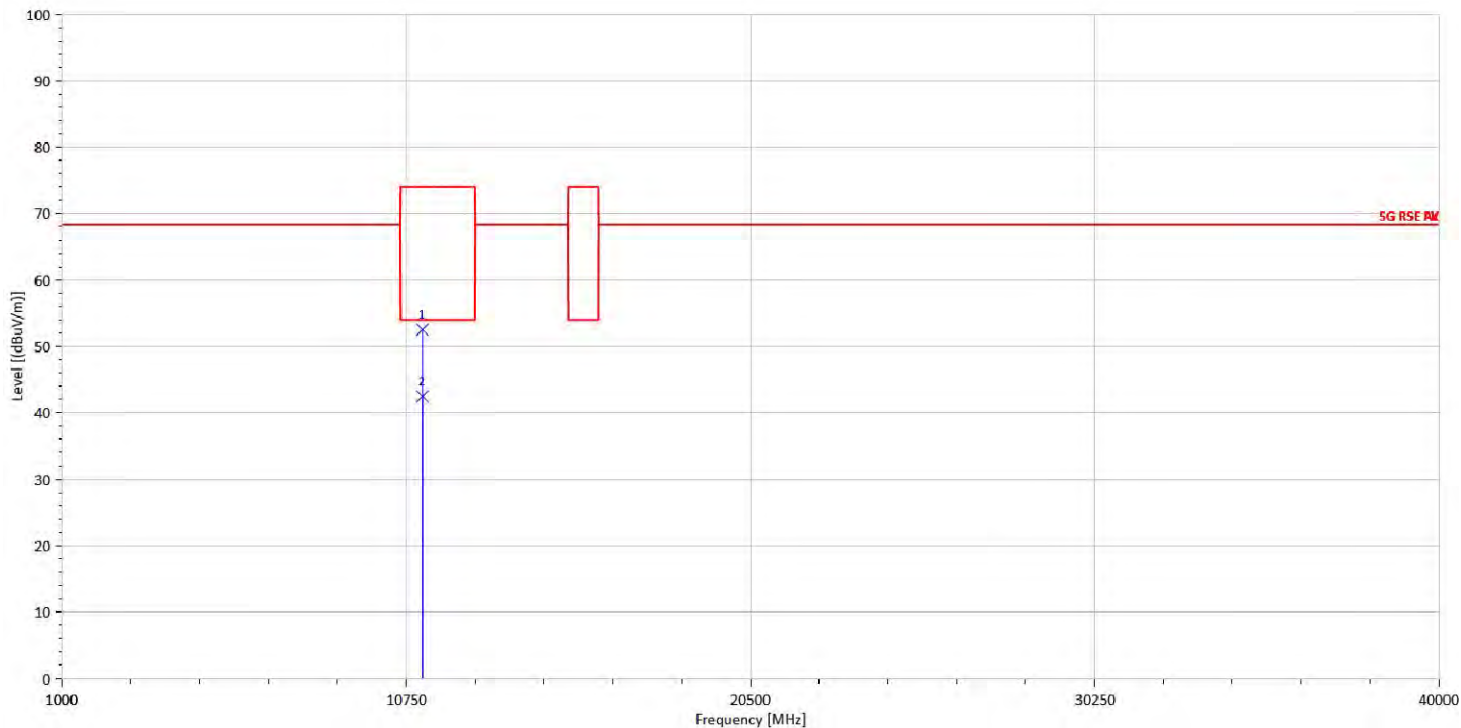
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11220.00	H	Peak	31.09	21.32	52.41	74	-21.59
11220.00	H	Average	21.18	21.32	42.50	54	-11.50

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Operation Mode :	802.11ac80B3	Test Date :	2018/1/16
Fundamental Frequency :	5610 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



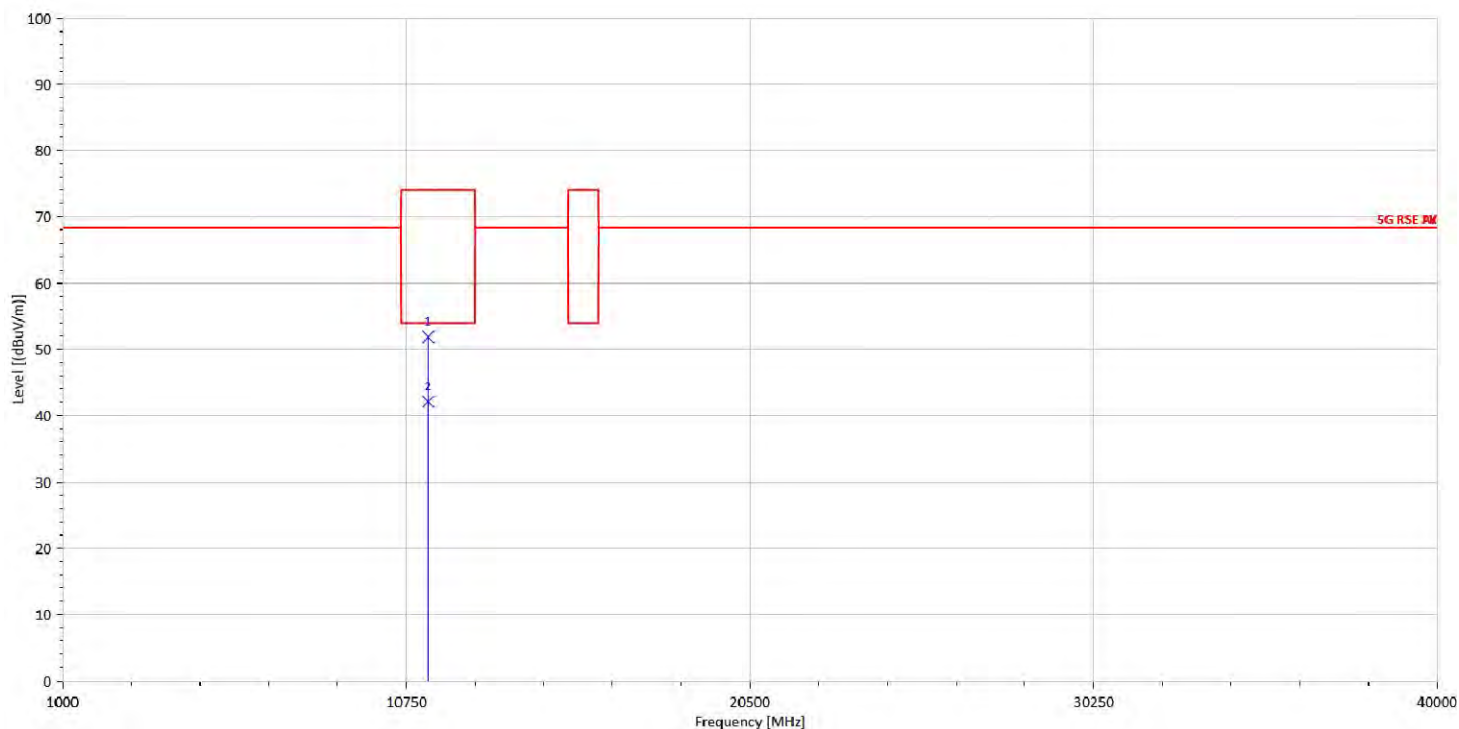
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11220.00	H	Peak	31.20	21.32	52.52	74	-21.48
11220.00	H	Average	21.15	21.32	42.47	54	-11.53

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Operation Mode :	802.11ac80B3	Test Date :	2018/1/16
Fundamental Frequency :	5690 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



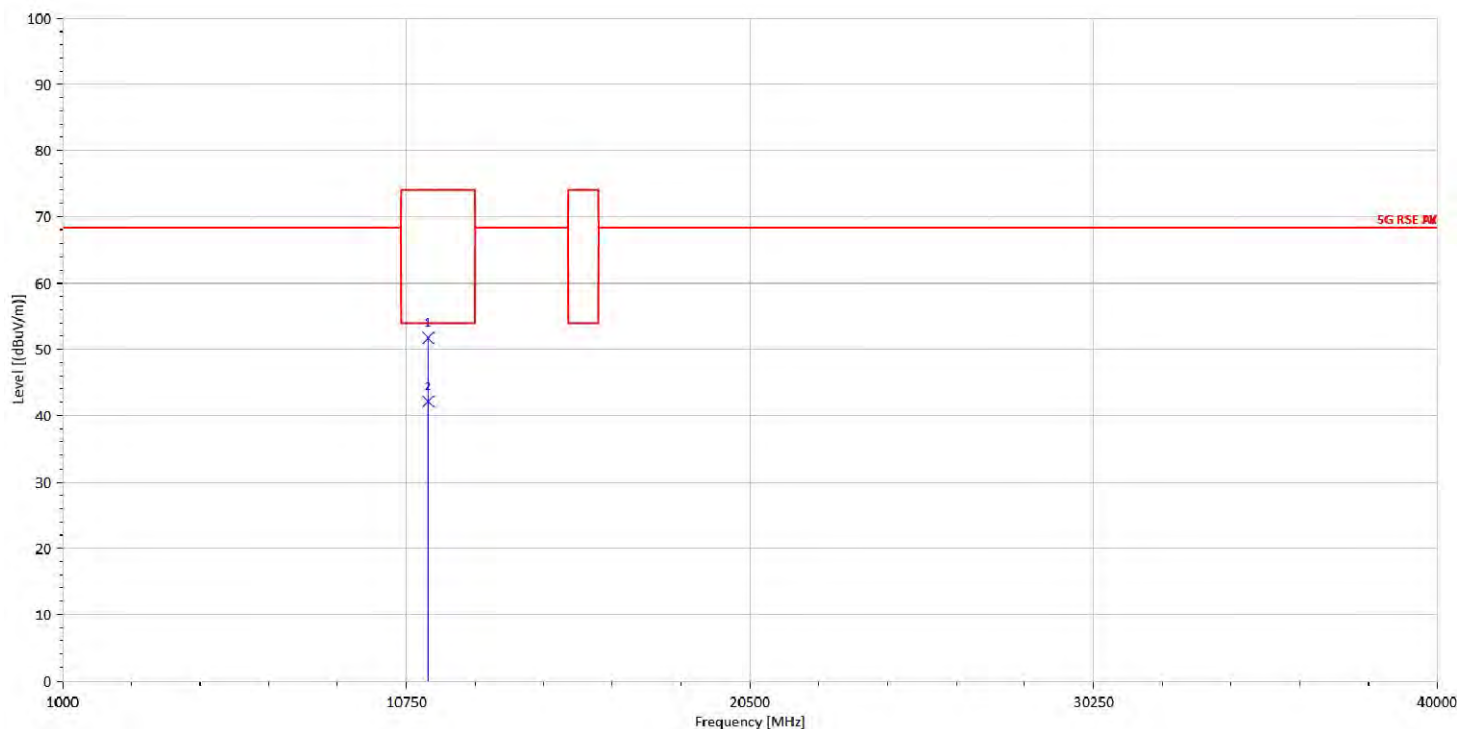
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11380.00	H	Peak	30.91	20.97	51.88	74	-22.12
11380.00	H	Average	21.14	20.97	42.11	54	-11.89

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Operation Mode :	802.11ac80B3	Test Date :	2018/1/16
Fundamental Frequency :	5690 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	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
11380.00	H	Peak	30.77	20.97	51.73	74	-22.27
11380.00	H	Average	21.18	20.97	42.15	54	-11.85

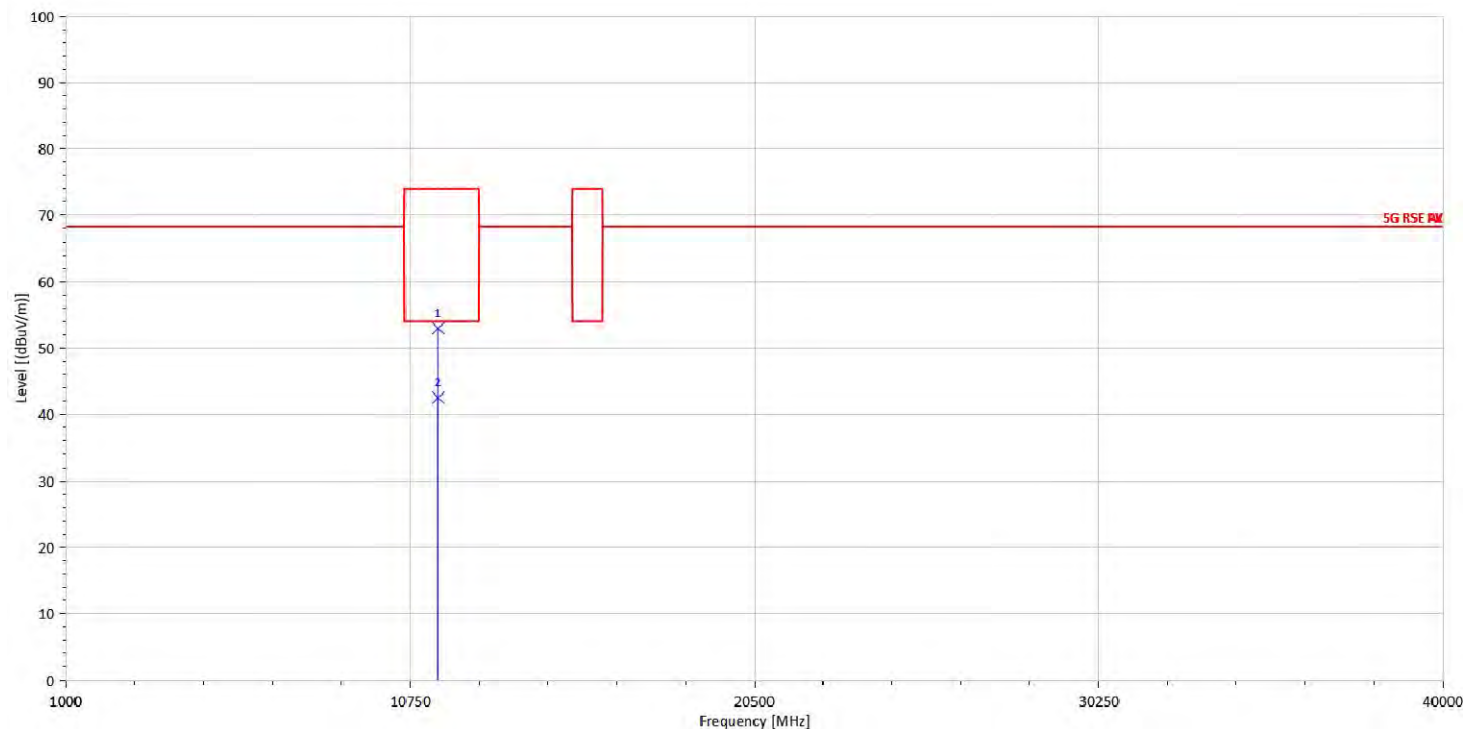
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz

Operation Mode :	802.11ac80B4	Test Date :	2018/1/16
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	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
11550.00	H	Peak	31.57	21.41	52.99	74	-21.01
11550.00	H	Average	21.13	21.41	42.54	54	-11.46

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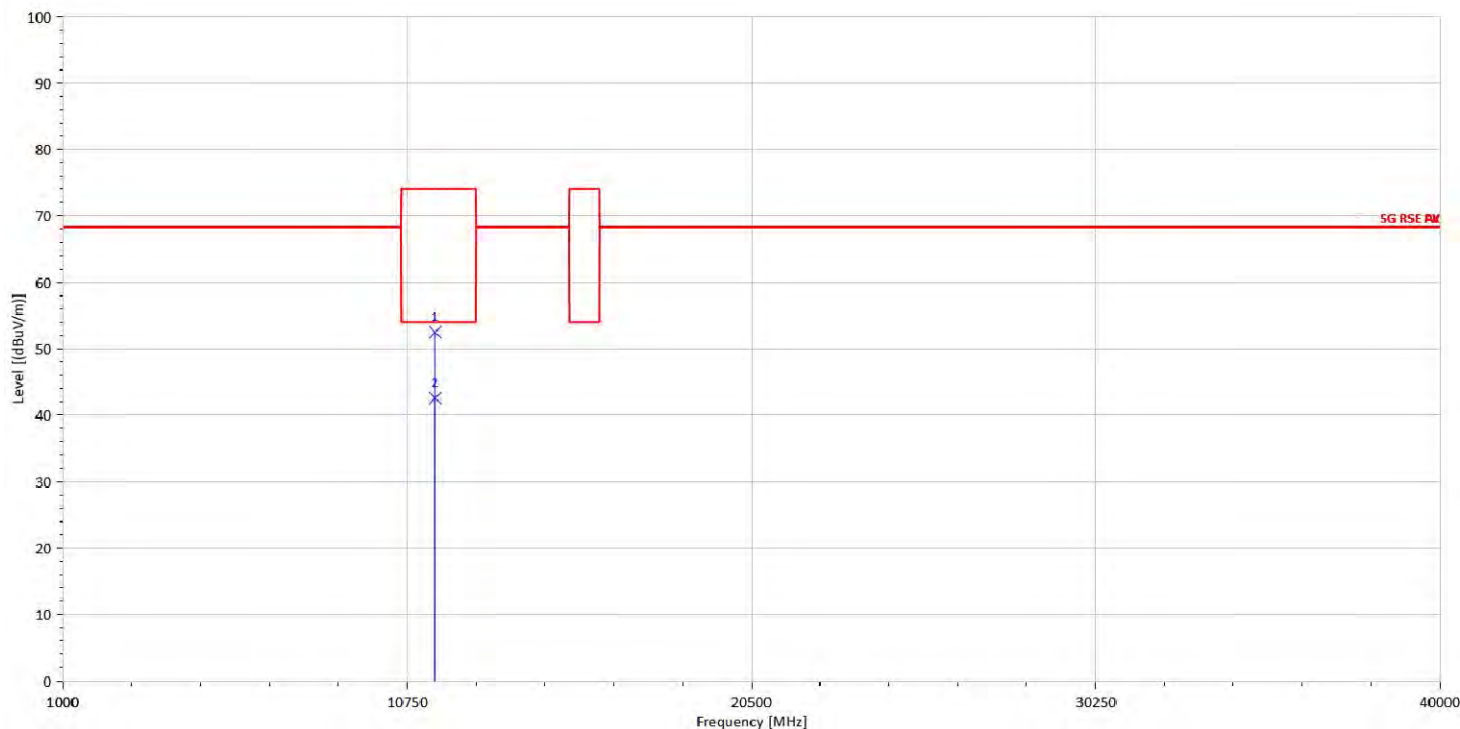
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Operation Mode :	802.11ac80B4	Test Date :	2018/1/16
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



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	31.07	21.41	52.49	74	-21.51
11550.00	H	Average	21.17	21.41	42.58	54	-11.42

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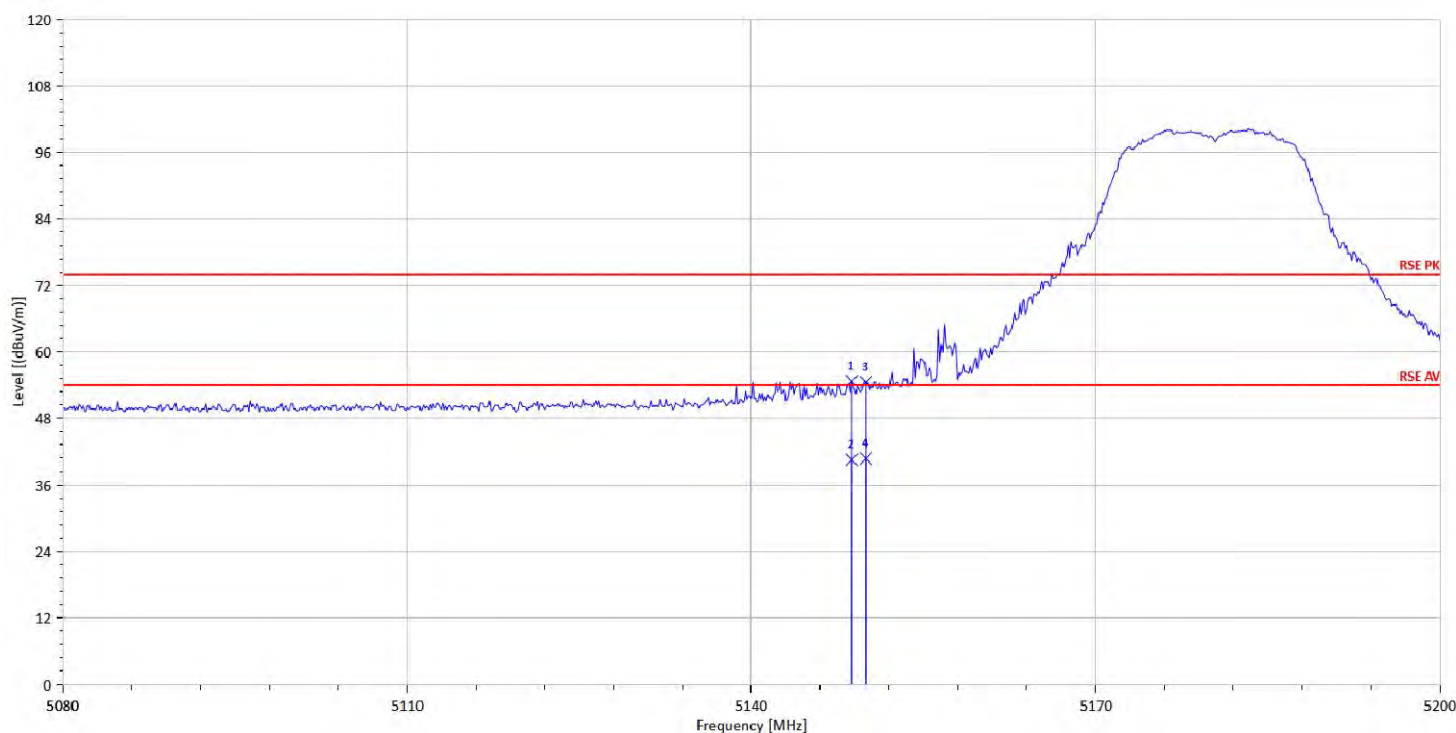
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Band edge falling to restricted band

802.11a mode

Operation Mode :	802.11aB1	Test Date :	2018/1/12
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	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
5148.76	S	Peak	46.55	8.18	54.73	74	-19.27
5148.76	S	Average	32.35	8.18	40.53	54	-13.47
5150.00	E	Peak	46.35	8.19	54.54	74	-19.46
5150.00	E	Average	32.57	8.19	40.76	54	-13.24

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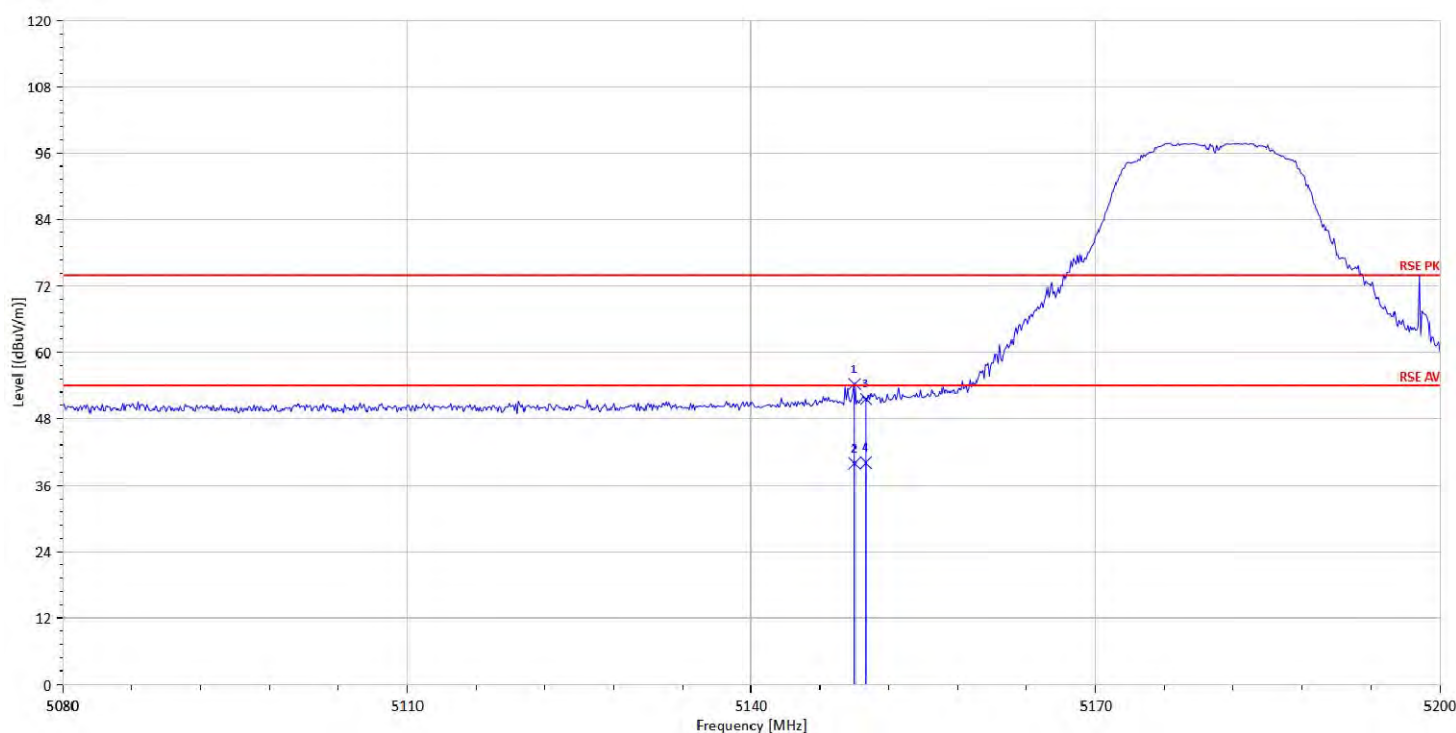
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Operation Mode :	802.11aB1	Test Date :	2018/1/12
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



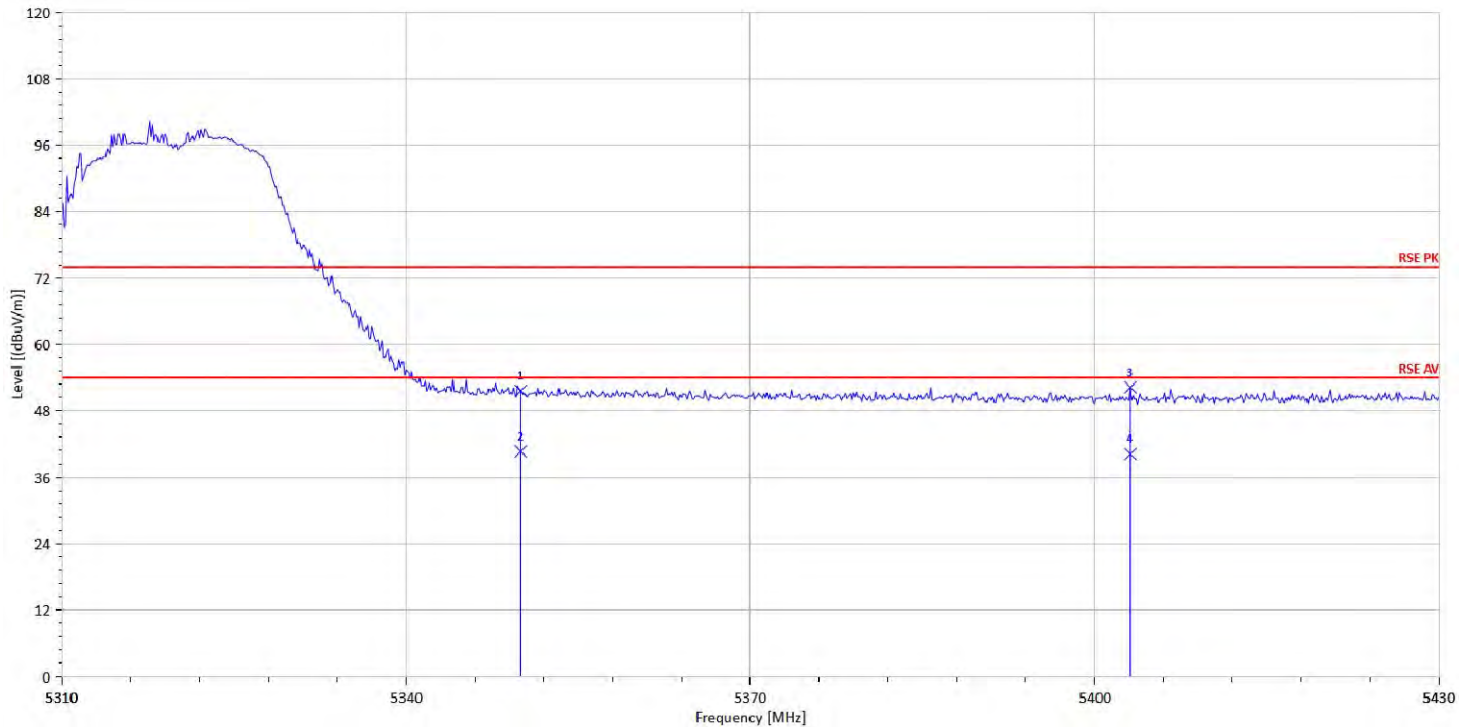
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5149.00	S	Peak	46.11	8.19	54.29	74	-19.71
5149.00	S	Average	31.77	8.19	39.96	54	-14.04
5150.00	E	Peak	43.41	8.19	51.61	74	-22.39
5150.00	E	Average	31.87	8.19	40.06	54	-13.94

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Operation Mode :	802.11aB2	Test Date :	2018/1/12
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



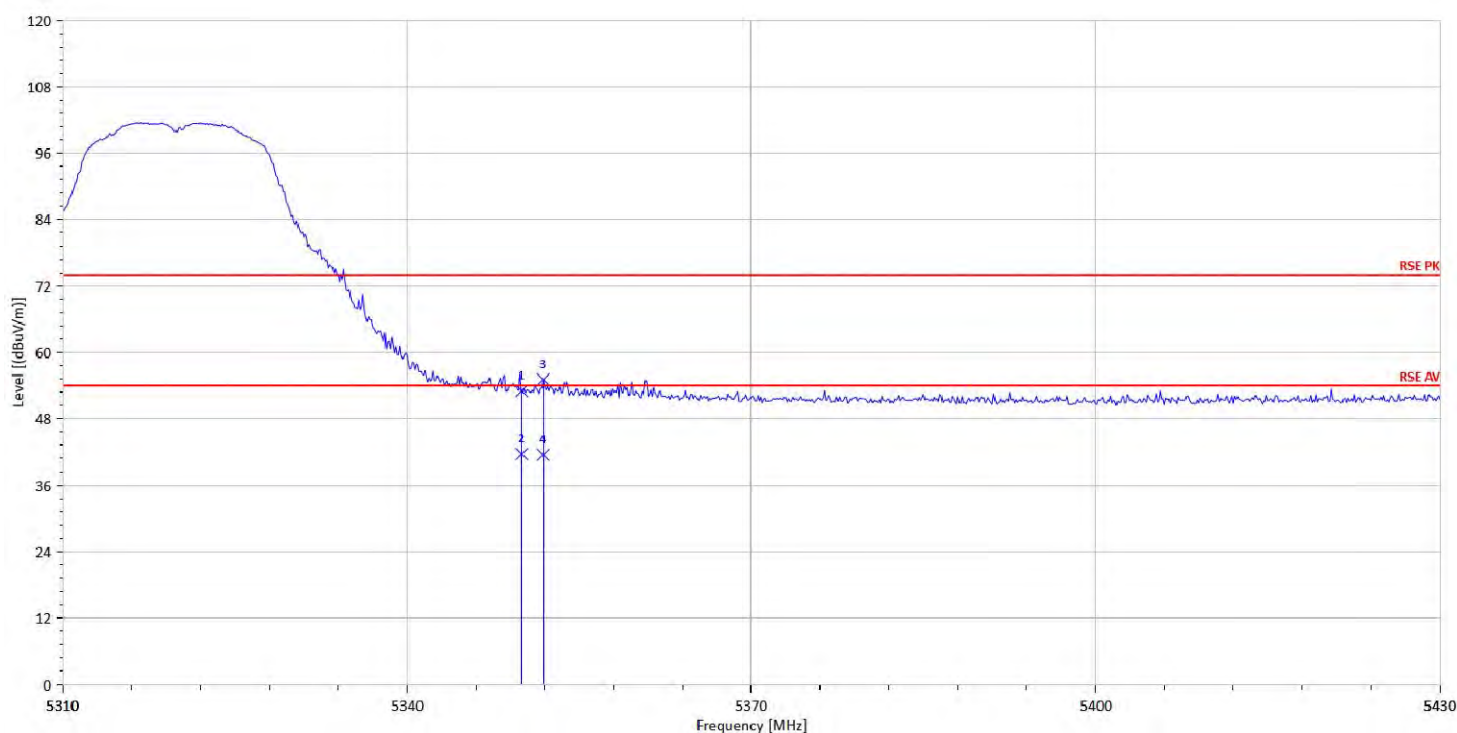
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Peak	42.66	8.96	51.62	74	-22.38
5350.00	E	Average	31.71	8.96	40.67	54	-13.33
5403.12	S	Peak	43.44	8.81	52.25	74	-21.75
5403.12	S	Average	31.37	8.81	40.18	54	-13.82

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Operation Mode :	802.11aB2	Test Date :	2018/1/12
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



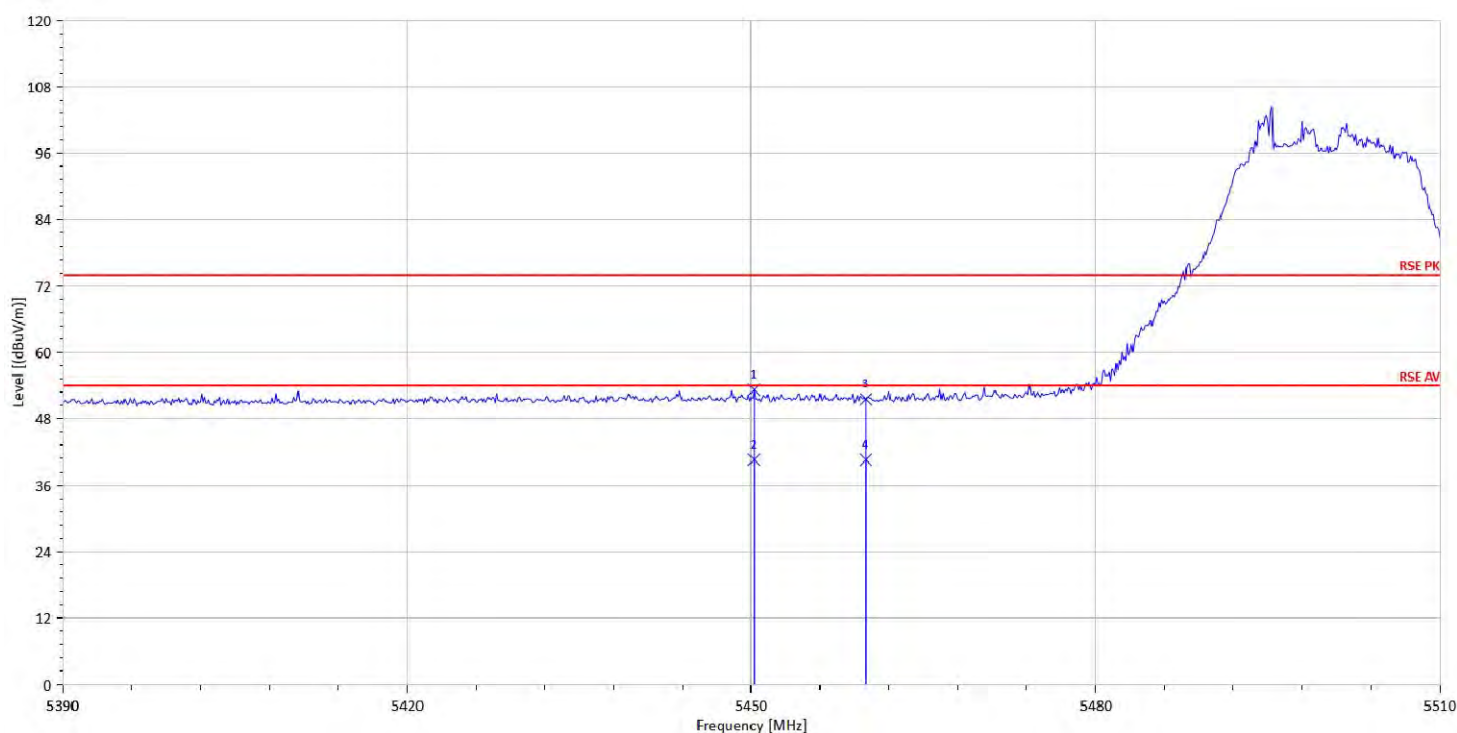
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Peak	44.11	8.96	53.07	74	-20.93
5350.00	E	Average	32.66	8.96	41.62	54	-12.38
5351.88	S	Peak	46.12	8.99	55.11	74	-18.89
5351.88	S	Average	32.49	8.99	41.48	54	-12.52

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Operation Mode :	802.11aB3	Test Date :	2018/1/12
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



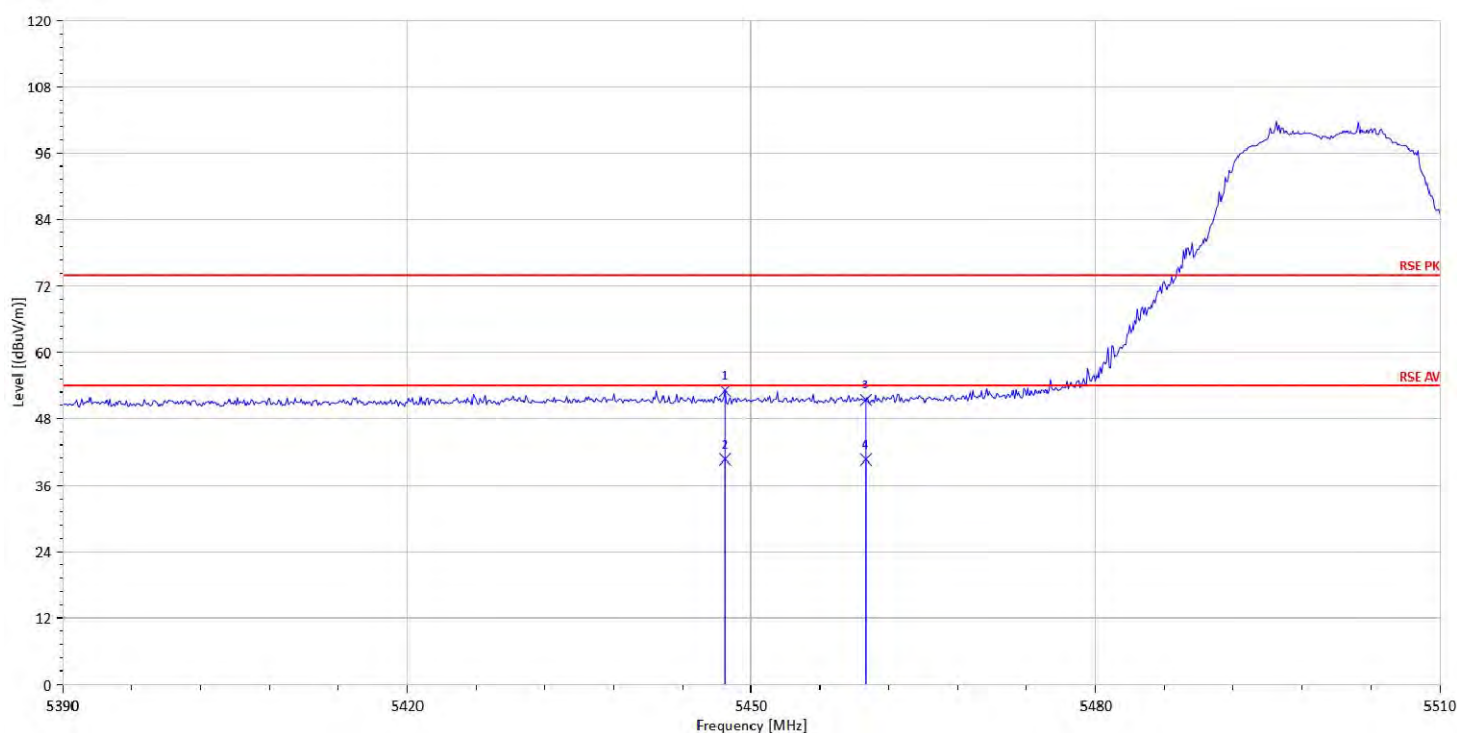
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5450.24	S	Peak	44.26	8.99	53.26	74	-20.74
5450.24	S	Average	31.64	8.99	40.63	54	-13.37
5460.00	E	Peak	42.67	8.88	51.55	74	-22.45
5460.00	E	Average	31.71	8.88	40.59	54	-13.41

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Operation Mode :	802.11aB3	Test Date :	2018/1/12
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



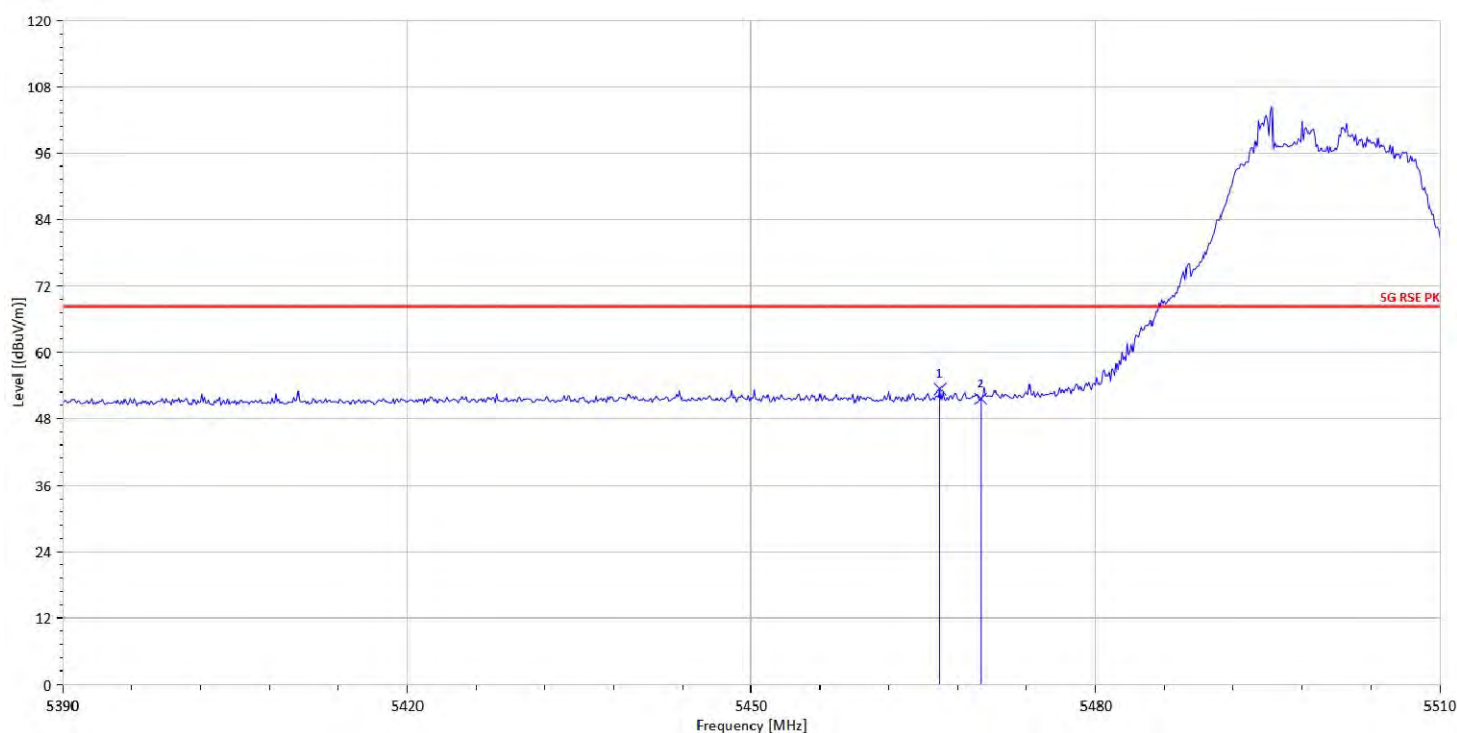
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5447.72	S	Peak	44.10	9.03	53.13	74	-20.87
5447.72	S	Average	31.67	9.03	40.70	54	-13.30
5460.00	E	Peak	42.55	8.88	51.43	74	-22.57
5460.00	E	Average	31.79	8.88	40.67	54	-13.33

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Operation Mode :	802.11aB3	Test Date :	2018/1/12
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW RSE	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



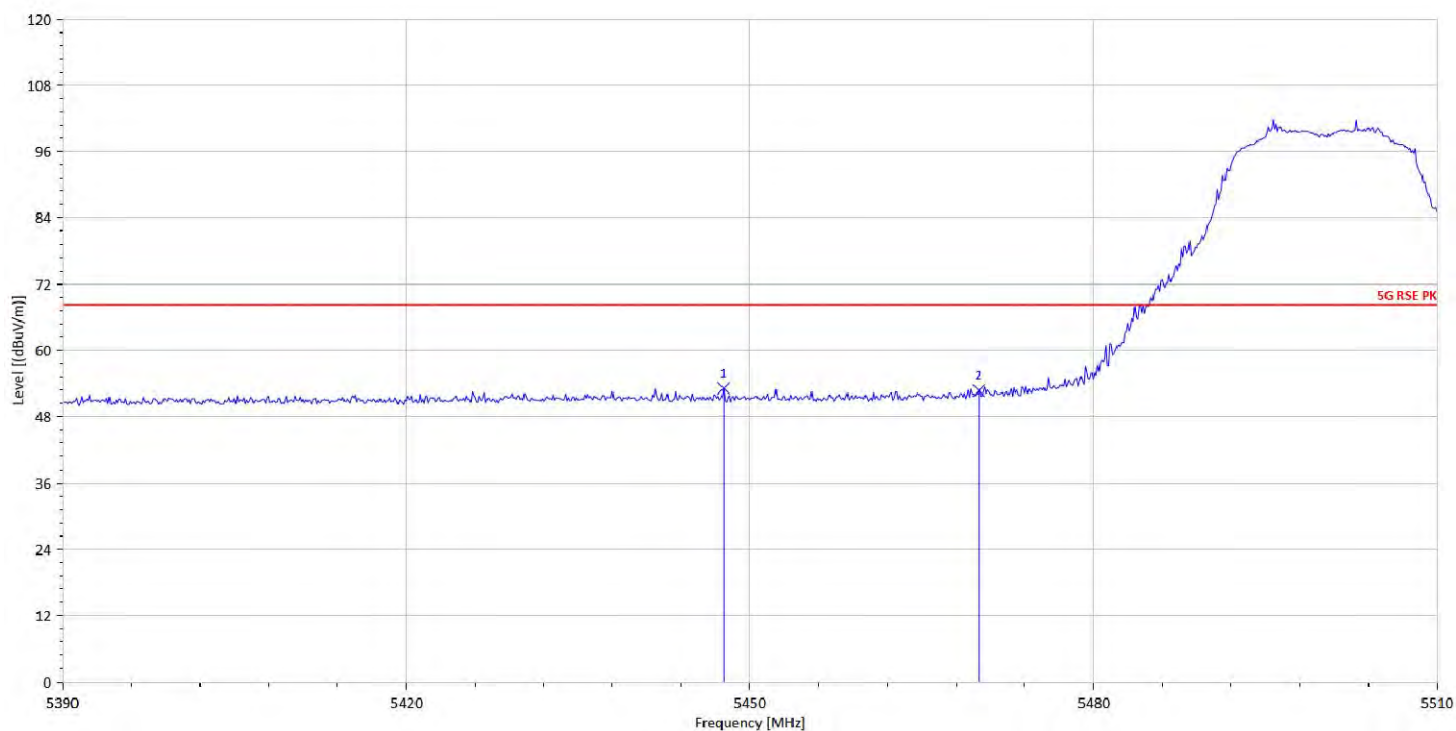
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5466.44	S	Peak	44.57	8.82	53.39	68.3	-14.91
5470.00	E	Peak	42.88	8.79	51.67	68.3	-16.63

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Operation Mode :	802.11aB3	Test Date :	2018/1/12
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW RSE	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



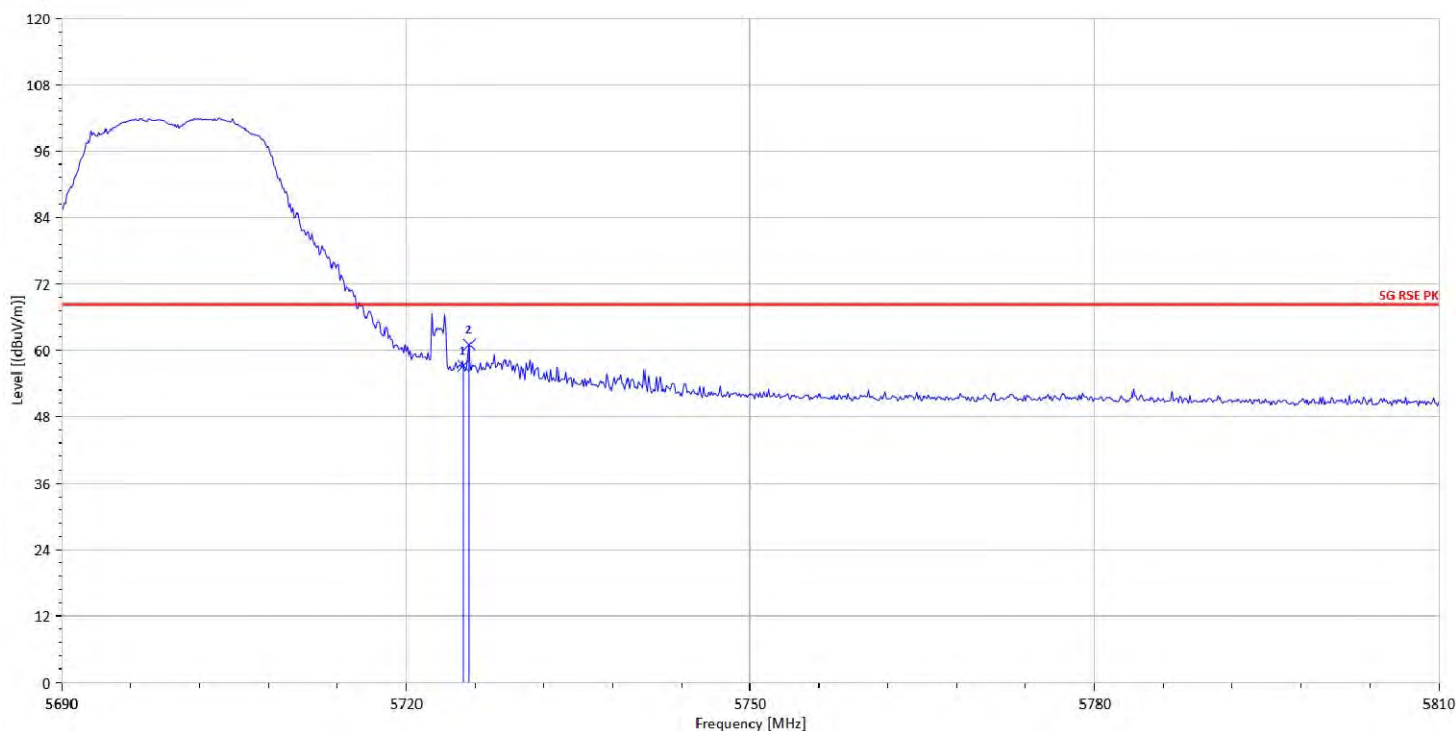
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5447.72	S	Peak	44.10	9.03	53.13	68.3	-15.17
5470.00	E	Peak	43.91	8.79	52.70	68.3	-15.60

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Operation Mode :	802.11aB3	Test Date :	2018/1/12
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



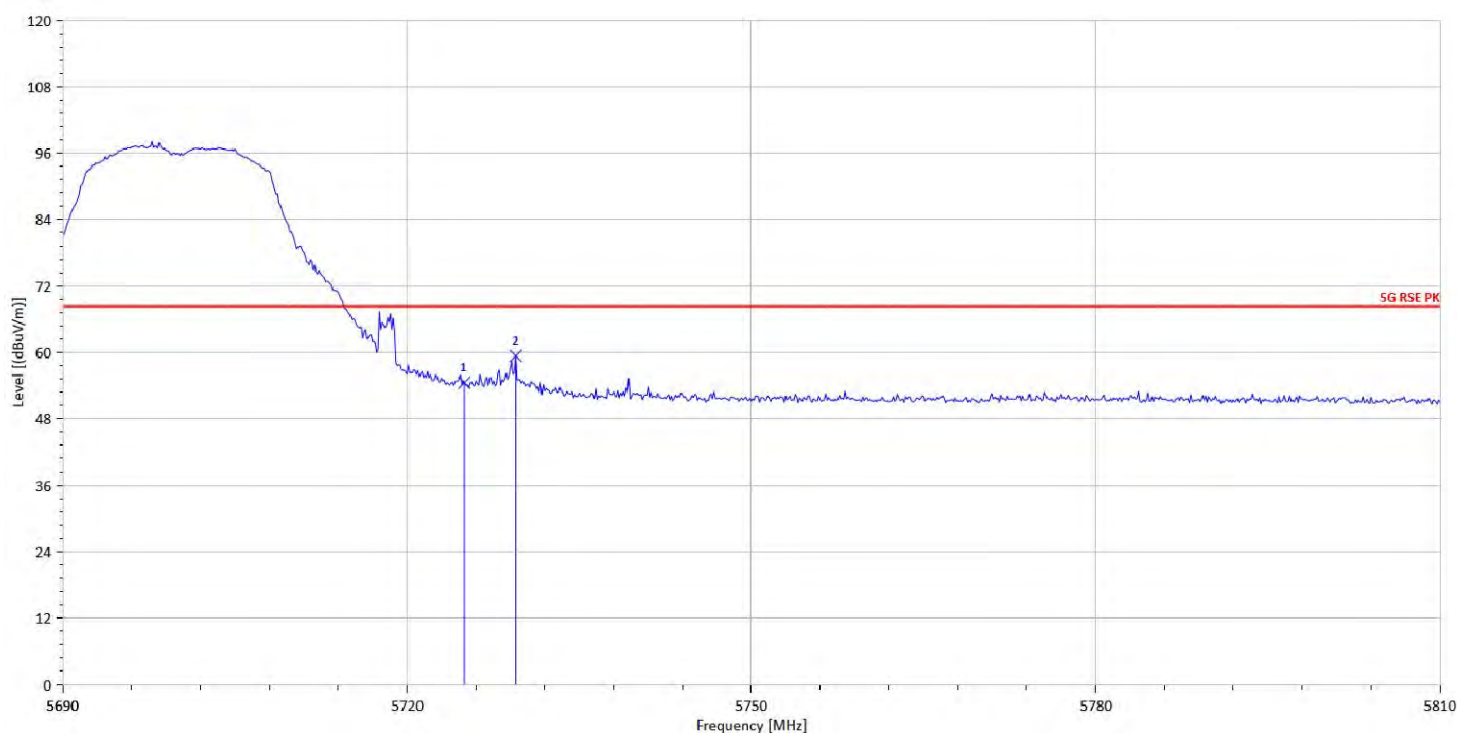
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	47.92	9.30	57.22	68.3	-11.08
5725.52	S	Peak	51.76	9.30	61.06	68.3	-7.24

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Operation Mode :	802.11aB3	Test Date :	2018/1/12
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



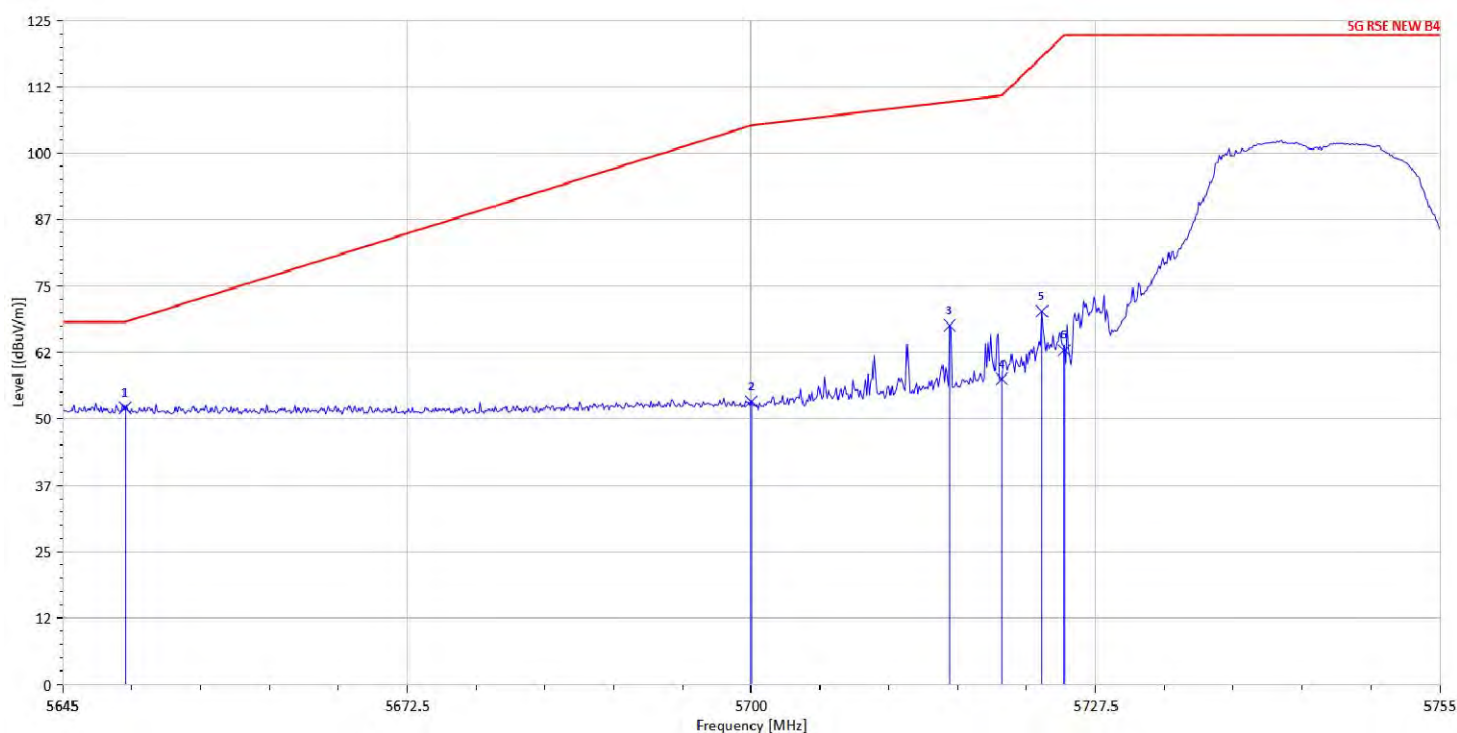
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	45.20	9.30	54.50	68.3	-13.80
5729.48	S	Peak	50.08	9.29	59.37	68.3	-8.93

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Operation Mode :	802.11aB4	Test Date :	2018/1/12
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	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
5650.00	S	Peak	42.77	9.33	52.10	68.23	-16.13
5700.00	S	Peak	43.85	9.44	53.28	105.23	-51.95
5715.84	S	Peak	58.32	9.26	67.59	109.6652	-42.08
5720.00	S	Peak	48.24	9.28	57.52	110.83	-53.31
5723.21	S	Peak	60.94	9.29	70.24	118.1487	-47.91
5725.00	E	Peak	53.60	9.30	62.90	122.23	-59.33

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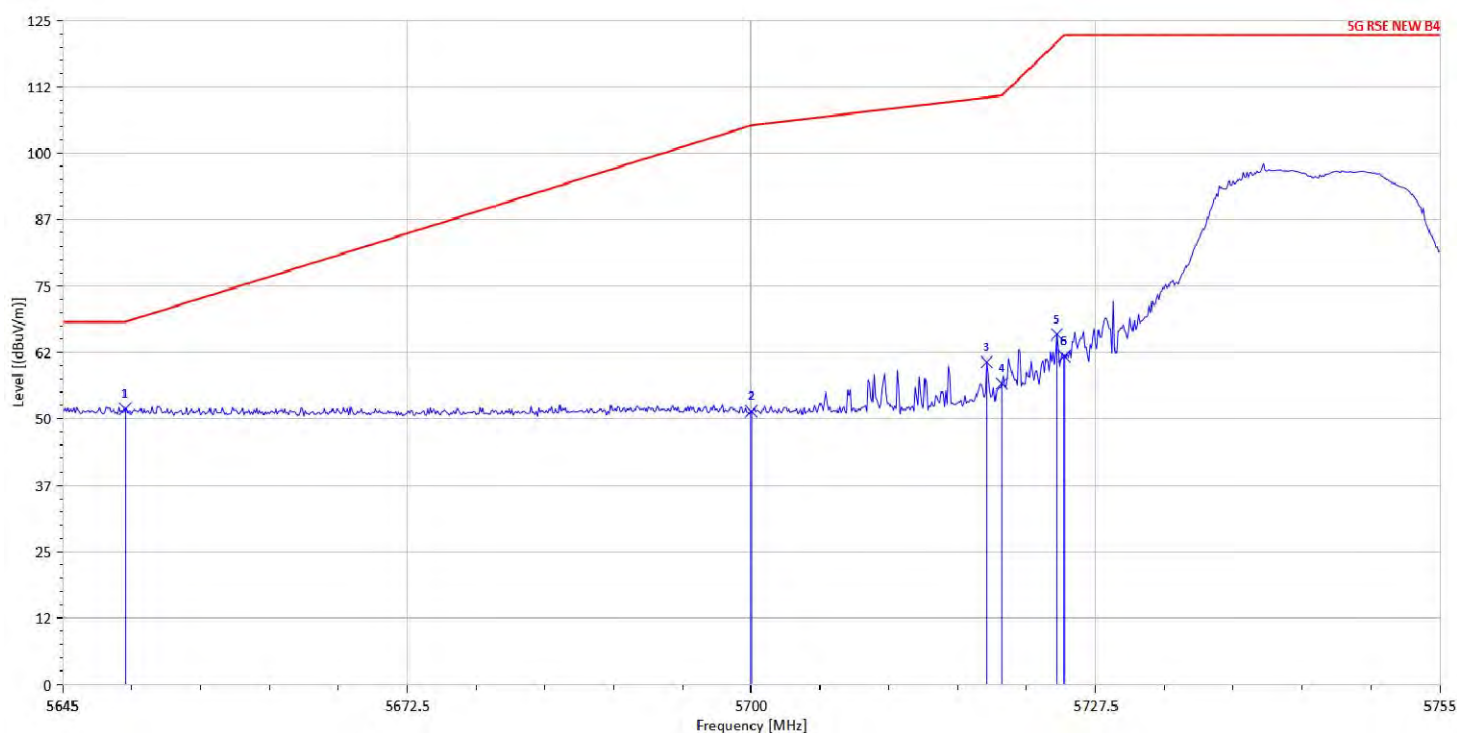
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Operation Mode :	802.11aB4	Test Date :	2018/1/12
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
5650.00	S	Peak	42.57	9.33	51.90	68.23	-16.33
5700.00	S	Peak	41.98	9.44	51.42	105.23	-53.81
5718.81	S	Peak	51.40	9.28	60.67	110.4968	-49.83
5720.00	S	Peak	47.37	9.28	56.65	110.83	-54.18
5724.42	S	Peak	56.61	9.30	65.91	120.9074	-55.00
5725.00	E	Peak	52.48	9.30	61.78	122.23	-60.45

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No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

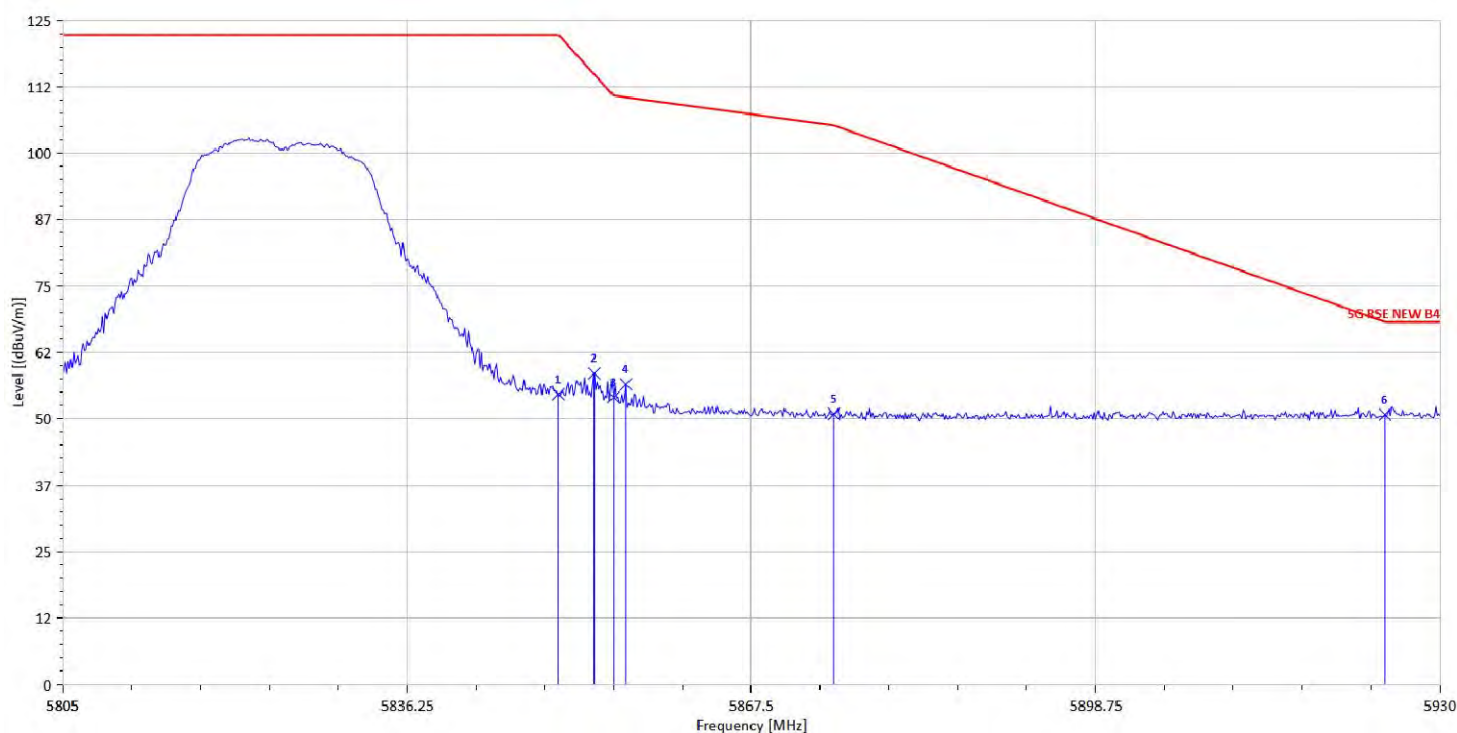
t (886-2) 2299-3279

f (886-2) 2298-0488

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Operation Mode :	802.11aB4	Test Date :	2018/1/12
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	H	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
5850.00	E	Peak	45.15	9.49	54.64	122.23	-67.59
5853.25	S	Peak	49.00	9.55	58.55	114.82	-56.27
5855.00	S	Peak	44.49	9.58	54.07	110.83	-56.76
5856.13	S	Peak	46.89	9.60	56.49	110.515	-54.03
5875.00	S	Peak	41.29	9.63	50.92	105.23	-54.31
5925.00	S	Peak	40.79	10.01	50.80	68.23	-17.43

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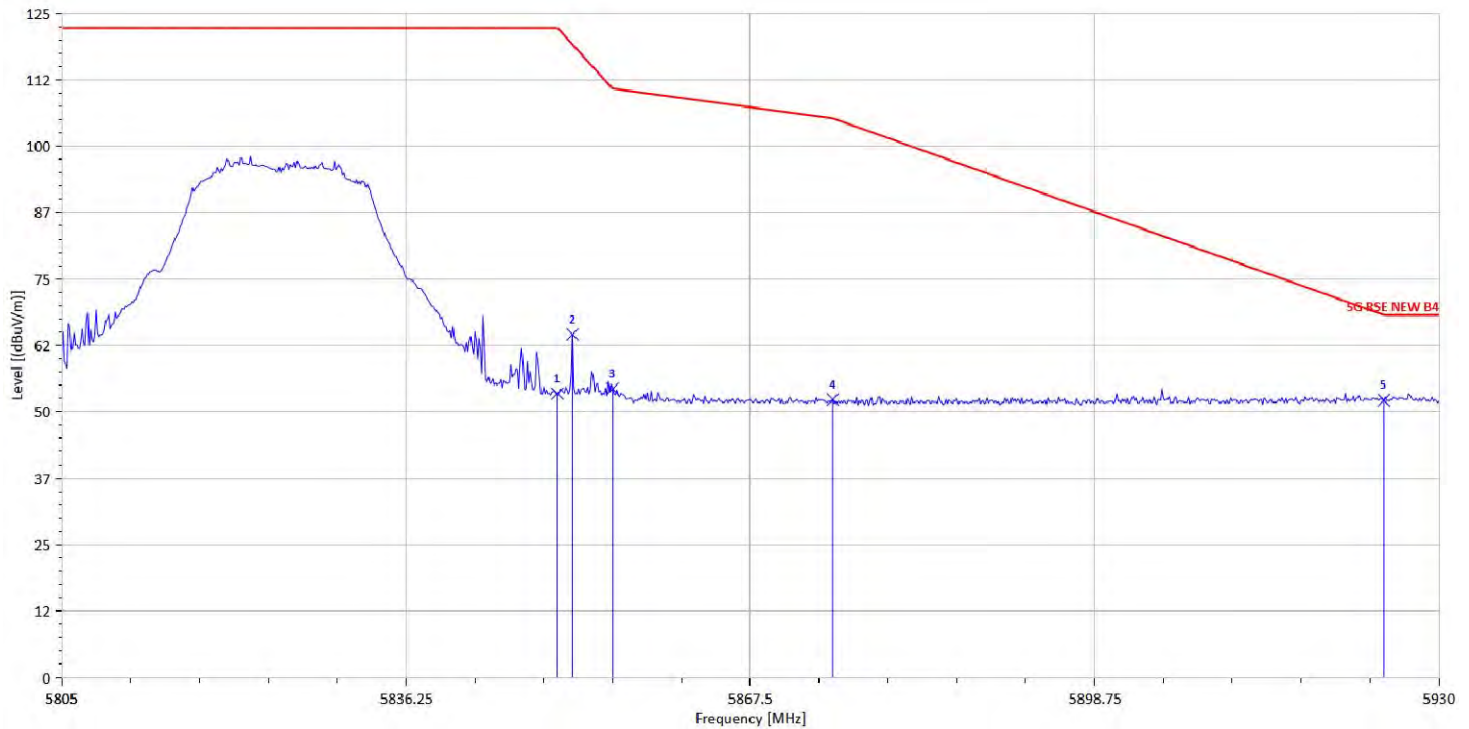
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f (886-2) 2298-0488

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Operation Mode :	802.11aB4	Test Date :	2018/1/12
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
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
5850.00	E	Peak	43.93	9.49	53.42	122.23	-68.81
5851.38	S	Peak	55.05	9.51	64.57	119.095	-54.53
5855.00	S	Peak	44.75	9.58	54.33	110.83	-56.50
5875.00	S	Peak	42.69	9.63	52.33	105.23	-52.90
5925.00	S	Peak	42.17	10.01	52.19	68.23	-16.04

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t (886-2) 2299-3279

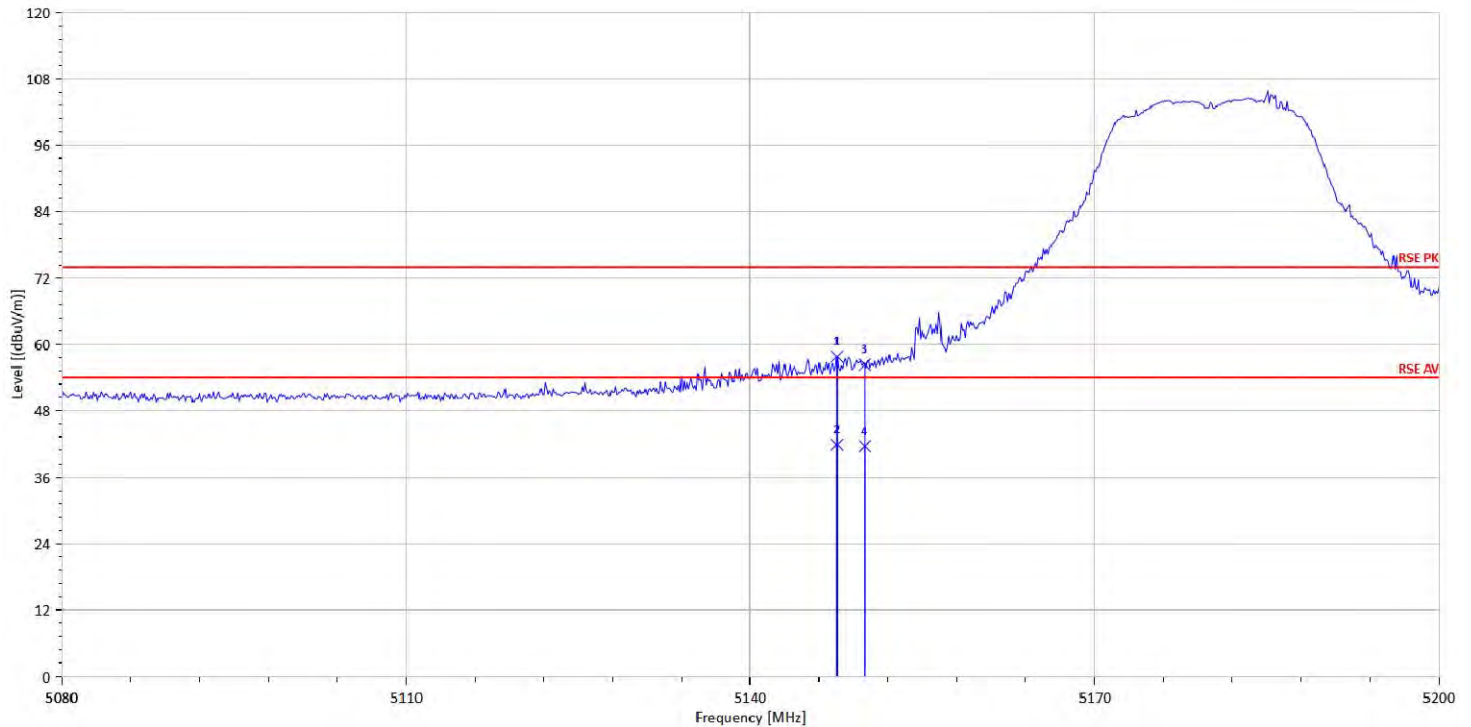
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802.11n20 HT mode

Operation Mode :	802.11n20B1	Test Date :	2018/1/12
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



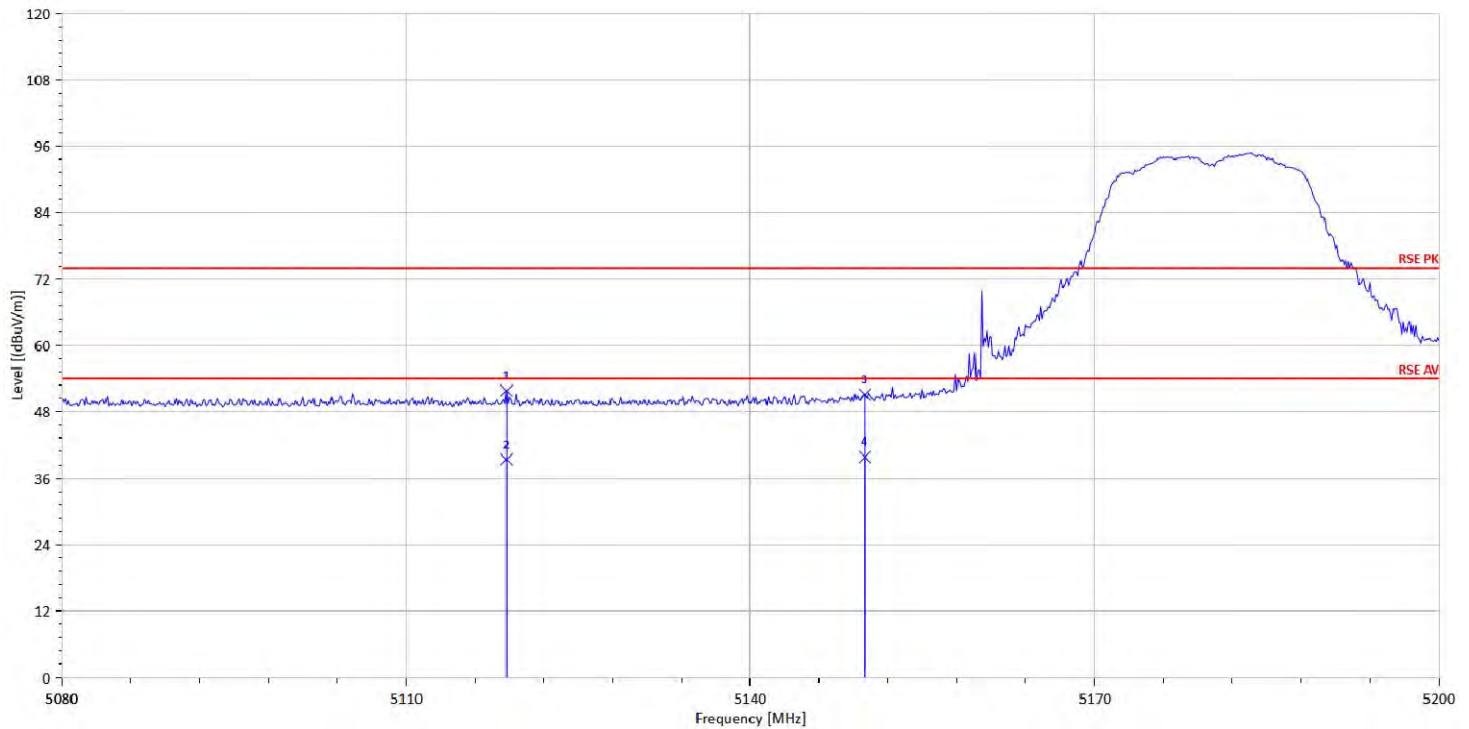
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5147.56	S	Peak	49.64	8.18	57.82	74	-16.18
5147.56	S	Average	33.71	8.18	41.89	54	-12.11
5150.00	E	Peak	48.16	8.19	56.36	74	-17.64
5150.00	E	Average	33.41	8.19	41.60	54	-12.40

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Operation Mode :	802.11n20B1	Test Date :	2018/1/12
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



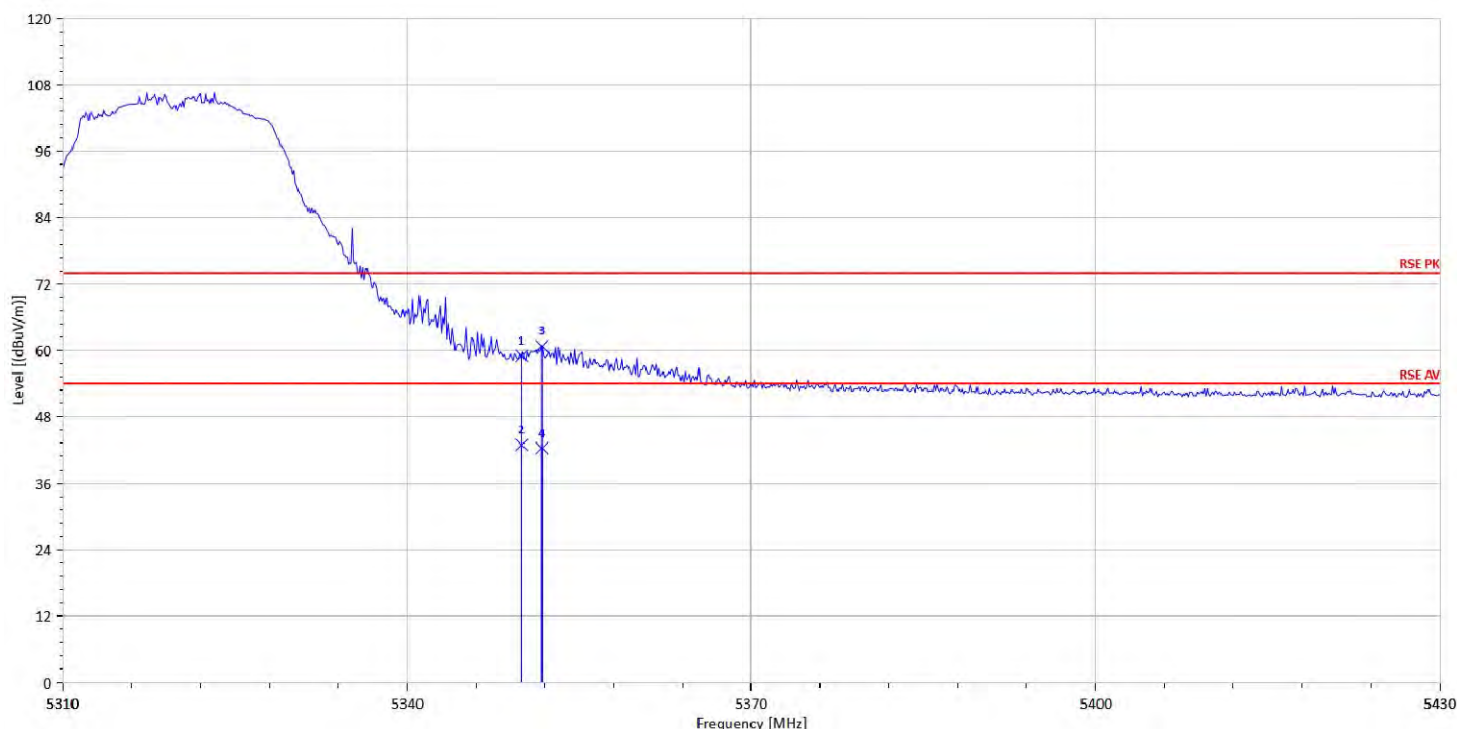
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5118.76	S	Peak	43.75	8.08	51.82	74	-22.18
5118.76	S	Average	31.31	8.08	39.39	54	-14.61
5150.00	E	Peak	42.89	8.19	51.08	74	-22.92
5150.00	E	Average	31.62	8.19	39.81	54	-14.19

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Operation Mode :	802.11n20B2	Test Date :	2018/1/12
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



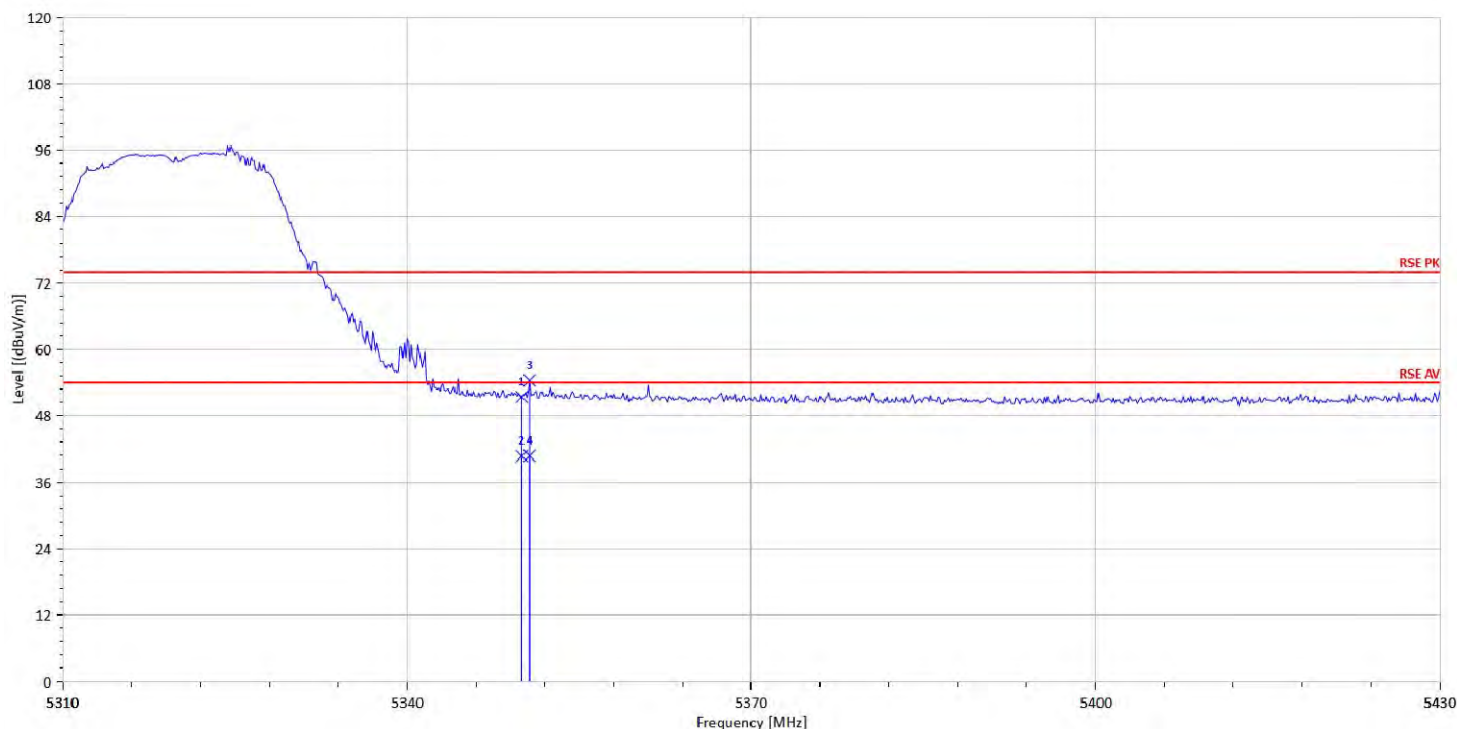
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Peak	50.06	8.96	59.02	74	-14.98
5350.00	E	Average	33.95	8.96	42.91	54	-11.09
5351.76	S	Peak	51.75	8.99	60.75	74	-13.25
5351.76	S	Average	33.35	8.99	42.34	54	-11.66

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Operation Mode :	802.11n20B2	Test Date :	2018/1/12
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



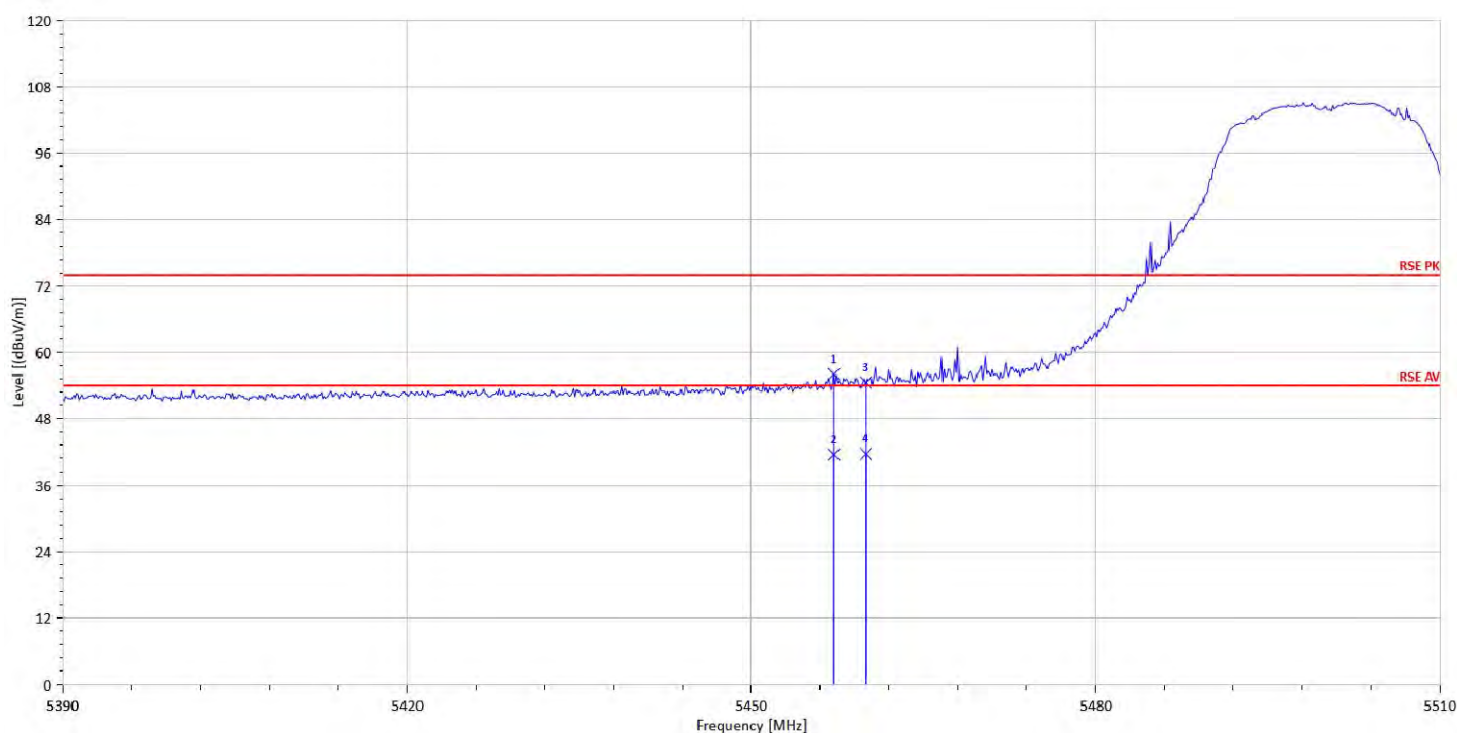
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Peak	42.43	8.96	51.40	74	-22.60
5350.00	E	Average	31.76	8.96	40.72	54	-13.28
5350.68	S	Peak	45.44	8.98	54.41	74	-19.59
5350.68	S	Average	31.81	8.98	40.79	54	-13.21

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Operation Mode :	802.11n20B3	Test Date :	2018/1/12
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



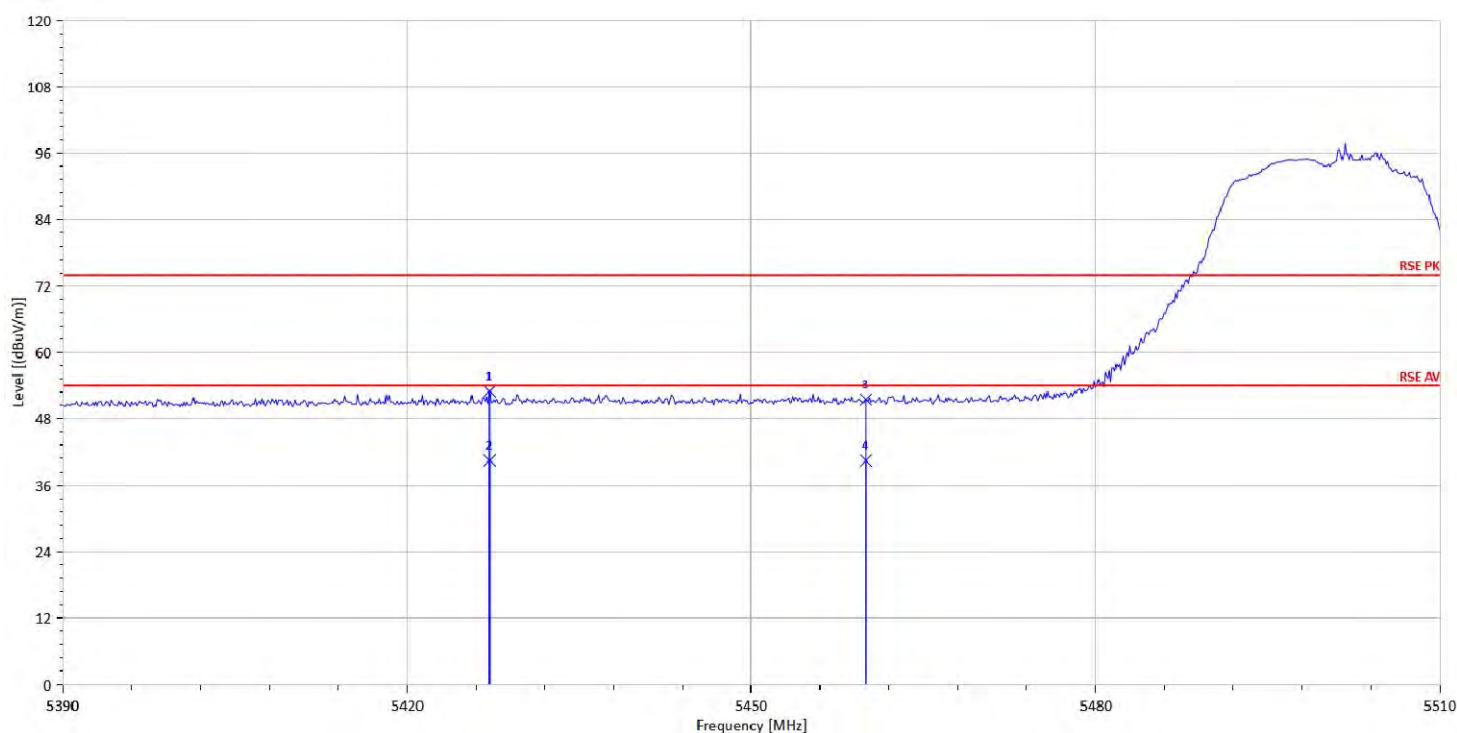
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5457.20	S	Peak	47.18	8.91	56.09	74	-17.91
5457.20	S	Average	32.61	8.91	41.52	54	-12.48
5460.00	E	Peak	45.67	8.88	54.55	74	-19.45
5460.00	E	Average	32.75	8.88	41.63	54	-12.37

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Operation Mode :	802.11n20B3	Test Date :	2018/1/12
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



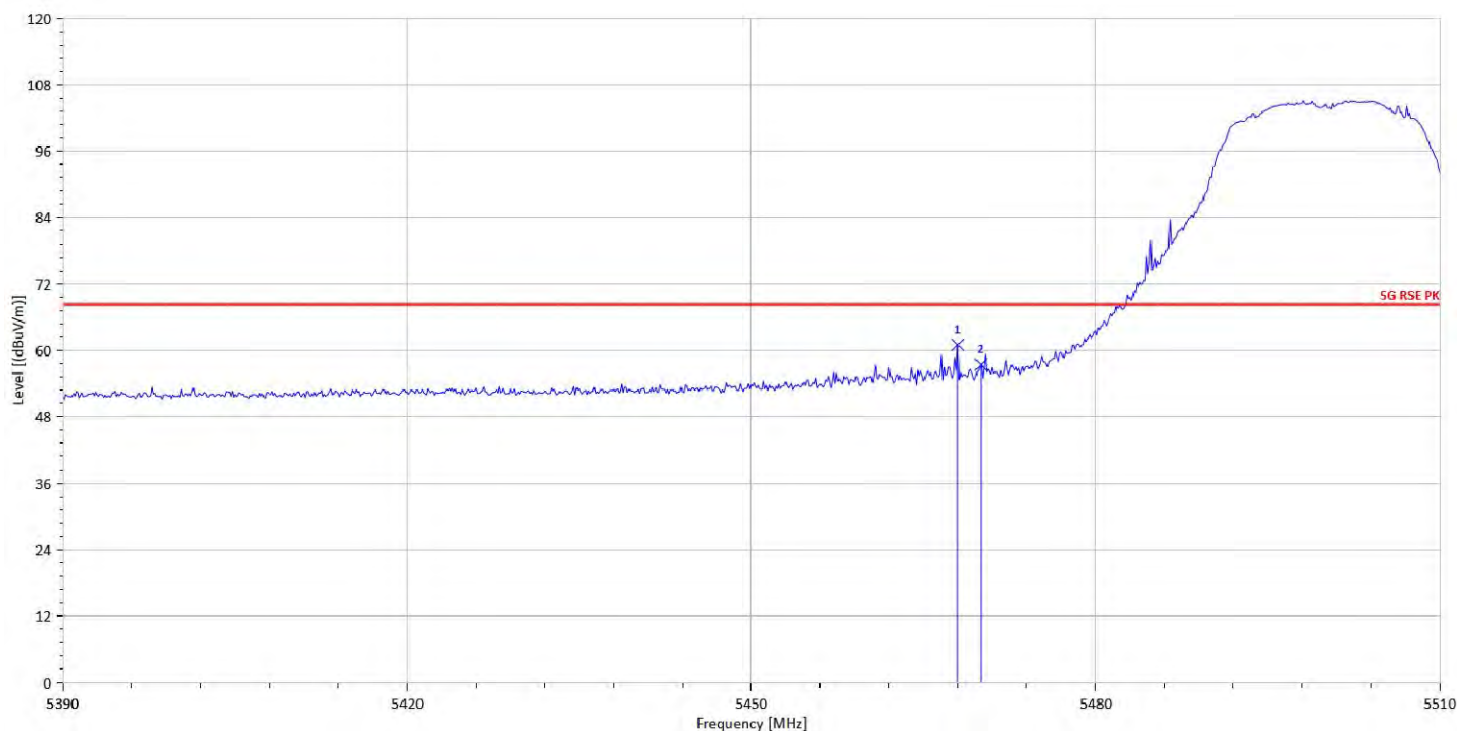
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5427.20	S	Peak	43.99	9.01	53.01	74	-20.99
5427.20	S	Average	31.47	9.01	40.48	54	-13.52
5460.00	E	Peak	42.61	8.88	51.49	74	-22.51
5460.00	E	Average	31.58	8.88	40.46	54	-13.54

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Operation Mode :	802.11n20B3	Test Date :	2018/1/12
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW RSE	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



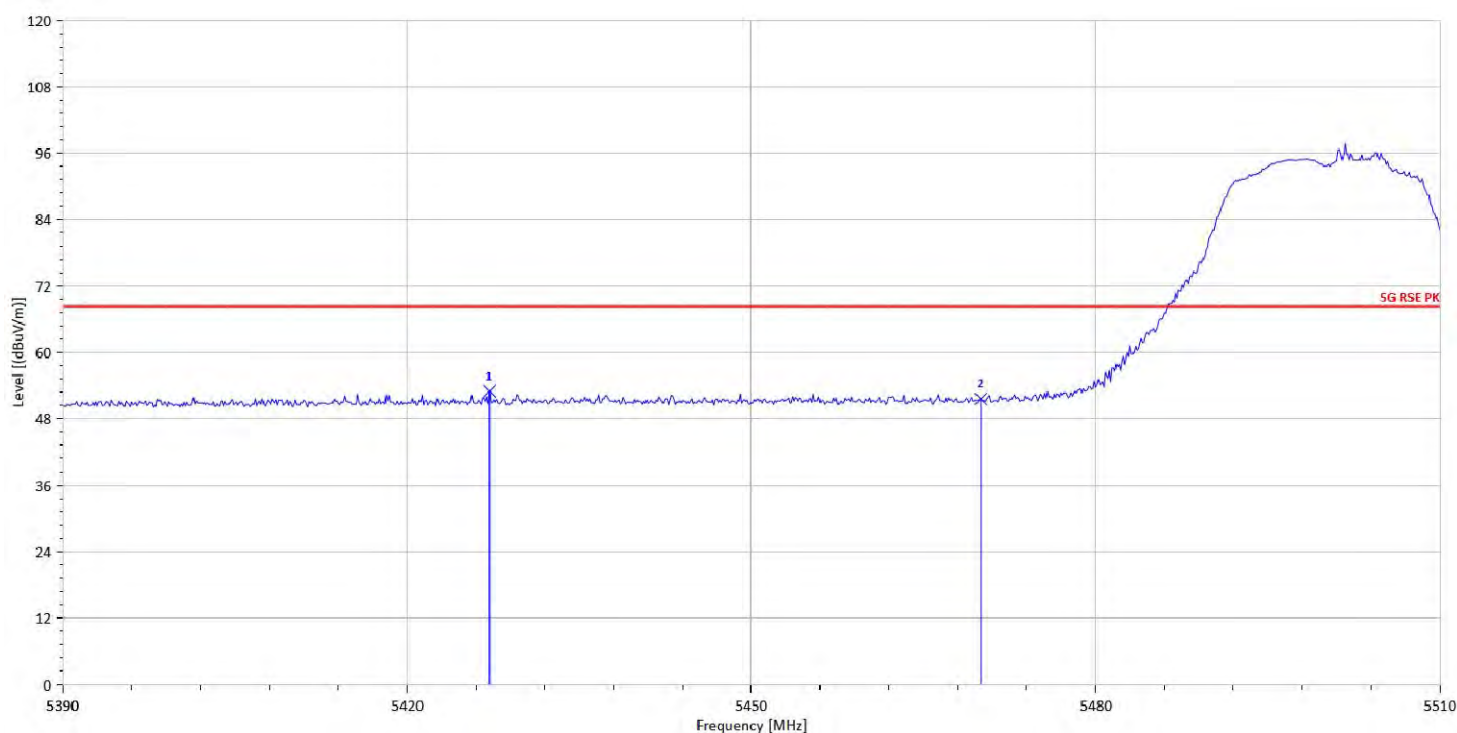
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5468.00	S	Peak	52.22	8.81	61.03	68.3	-7.27
5470.00	E	Peak	48.65	8.79	57.44	68.3	-10.86

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Operation Mode :	802.11n20B3	Test Date :	2018/1/12
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW RSE	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



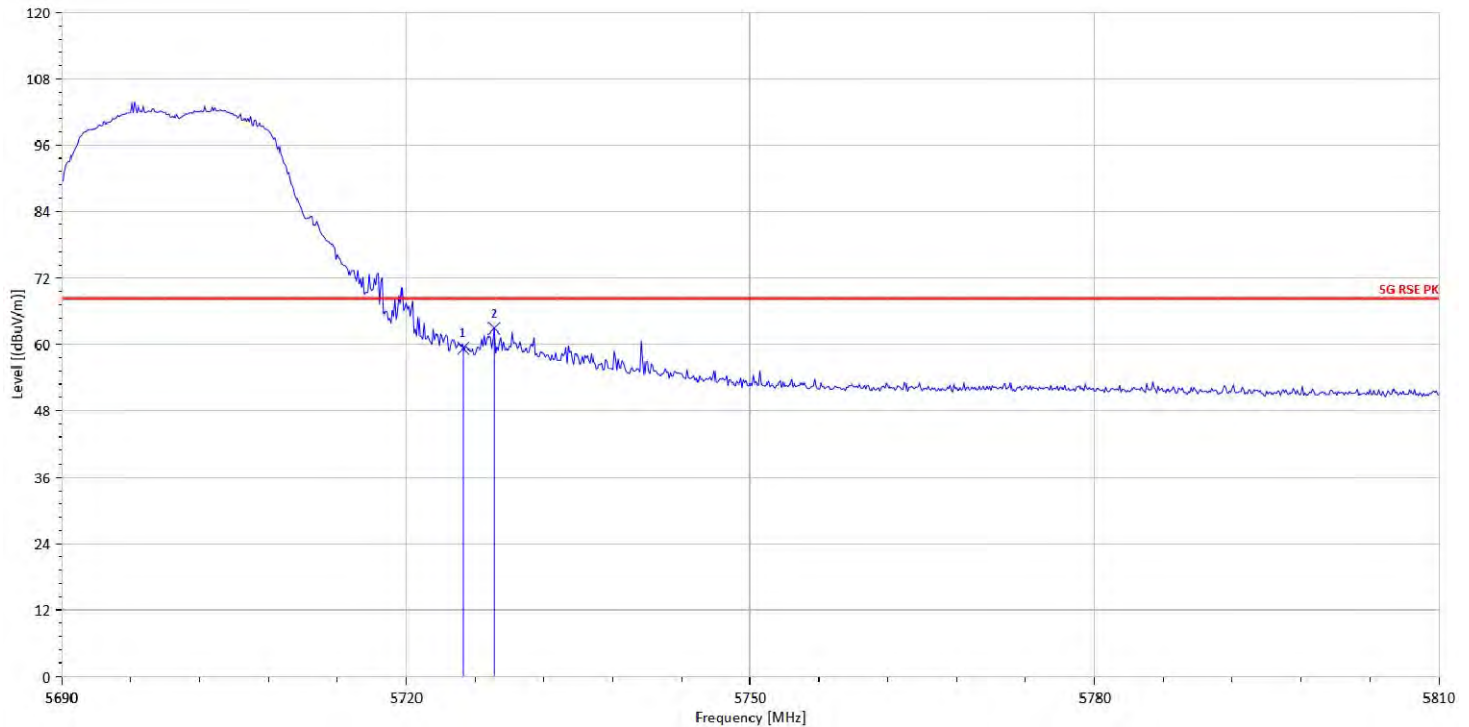
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5427.20	S	Peak	43.99	9.01	53.01	68.3	-15.29
5470.00	E	Peak	42.80	8.79	51.59	68.3	-16.71

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Operation Mode :	802.11n20B3	Test Date :	2018/1/12
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



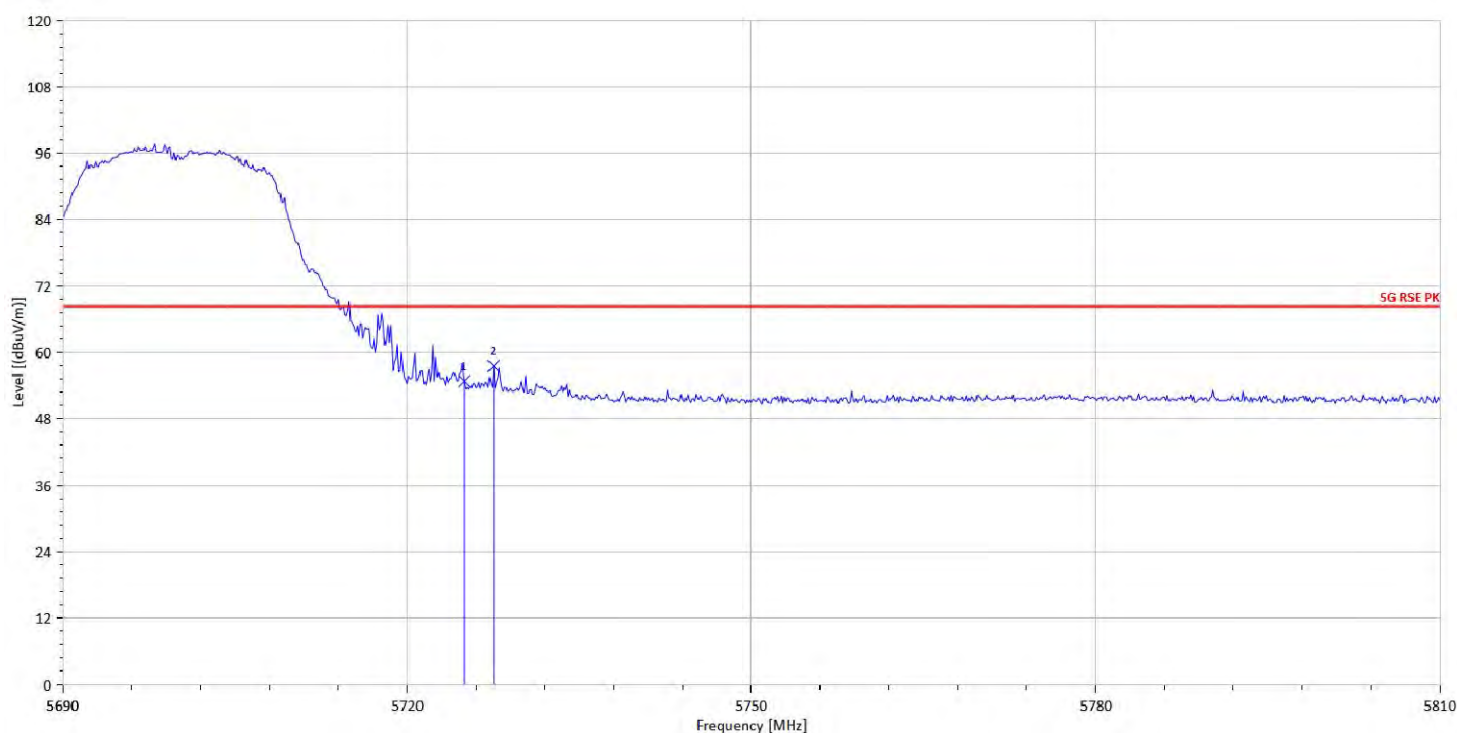
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5725.00	E	Peak	50.03	9.30	59.33	68.3	-8.97
5727.68	S	Peak	52.61	9.30	61.91	68.3	-6.39

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Operation Mode :	802.11n20B3	Test Date :	2018/1/12
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



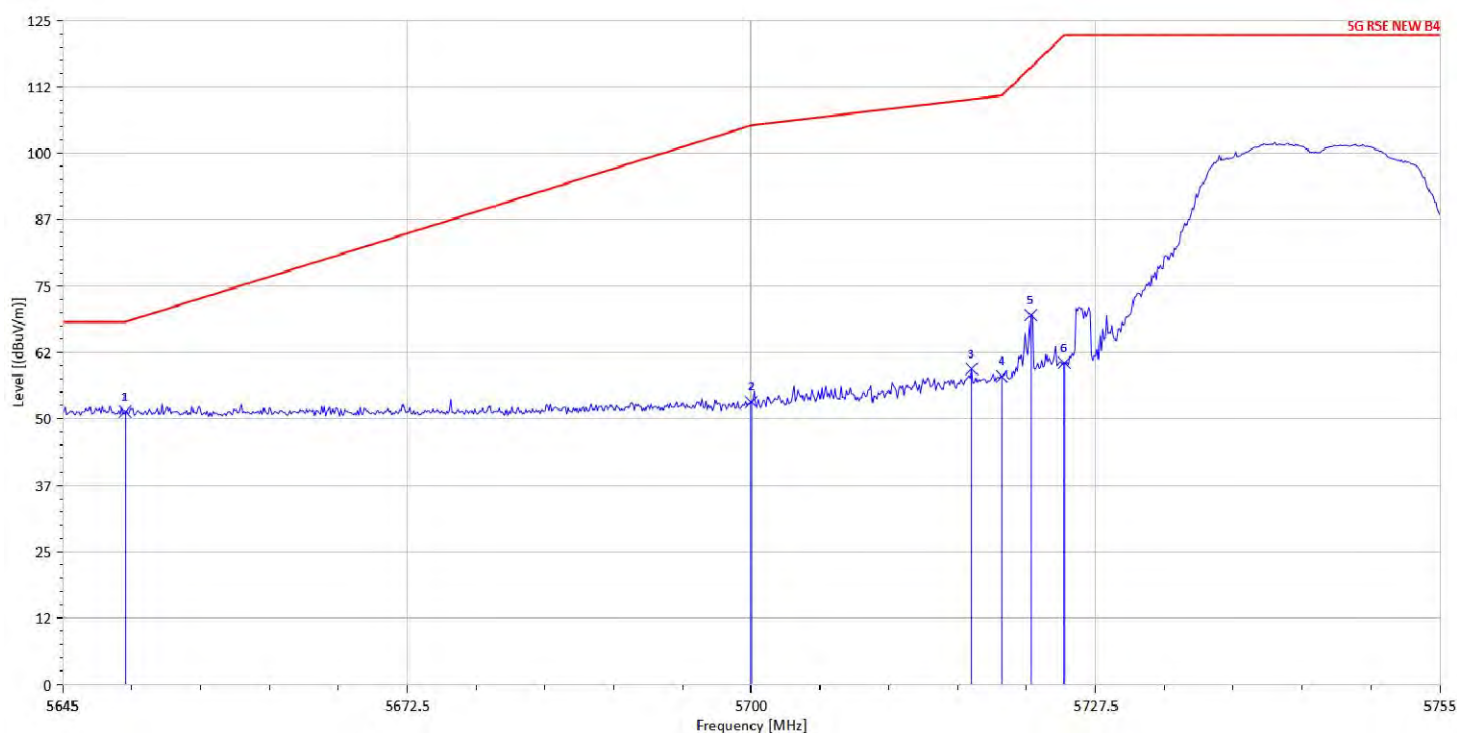
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	45.51	9.30	54.81	68.3	-13.49
5727.56	S	Peak	48.25	9.30	57.55	68.3	-10.75

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Operation Mode :	802.11n20B4	Test Date :	2018/1/12
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
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
5650.00	S	Peak	42.01	9.33	51.34	68.23	-16.89
5700.00	S	Peak	43.71	9.44	53.15	105.23	-52.08
5717.60	S	Peak	50.14	9.27	59.41	110.158	-50.75
5720.00	S	Peak	48.70	9.28	57.98	110.83	-52.85
5722.33	S	Peak	60.22	9.29	69.51	116.1426	-46.63
5725.00	E	Peak	51.24	9.30	60.54	122.23	-61.69

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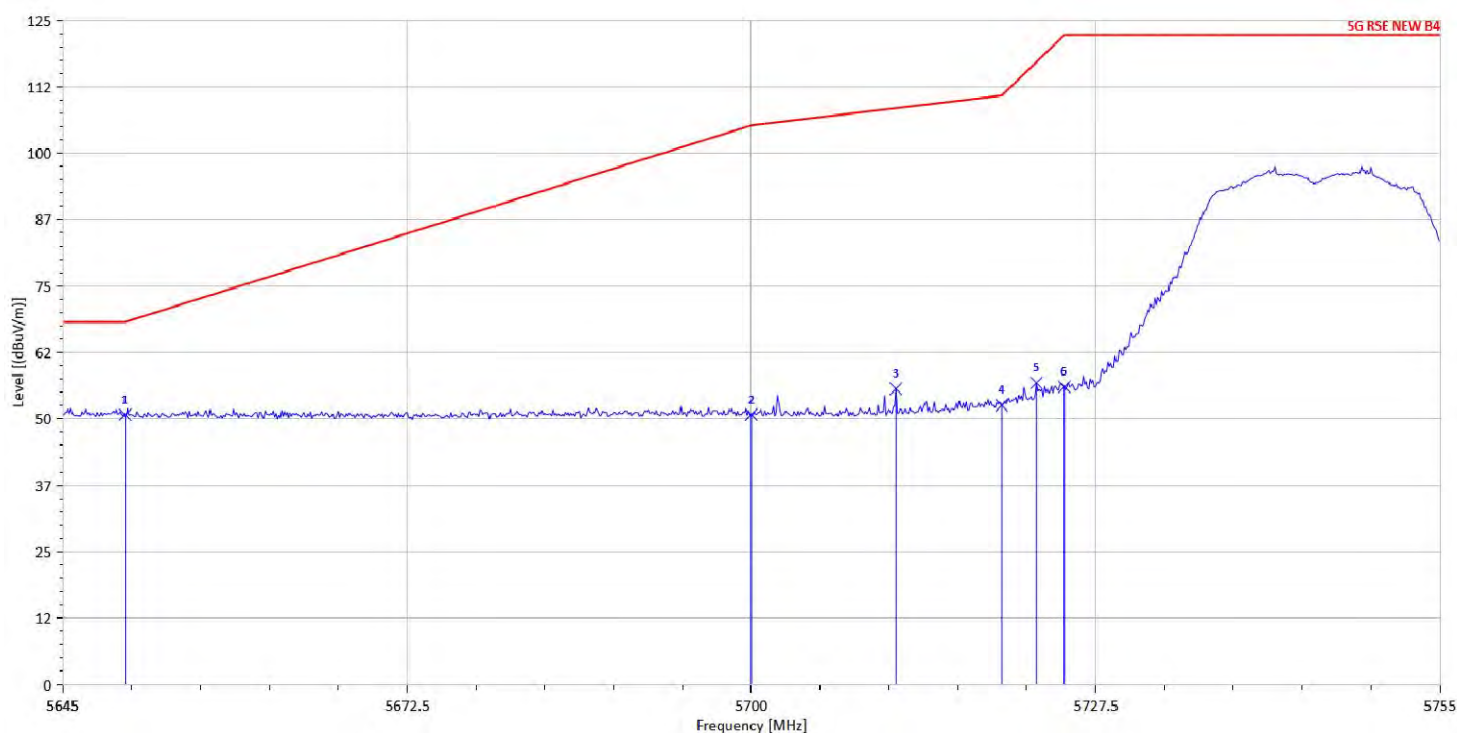
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Operation Mode : 802.11n20B4 Test Date : 2018/1/12
Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH LOW Test Engineer : Enzo
EUT Pol. : H Measurement Antenna Pol. : Horizontal



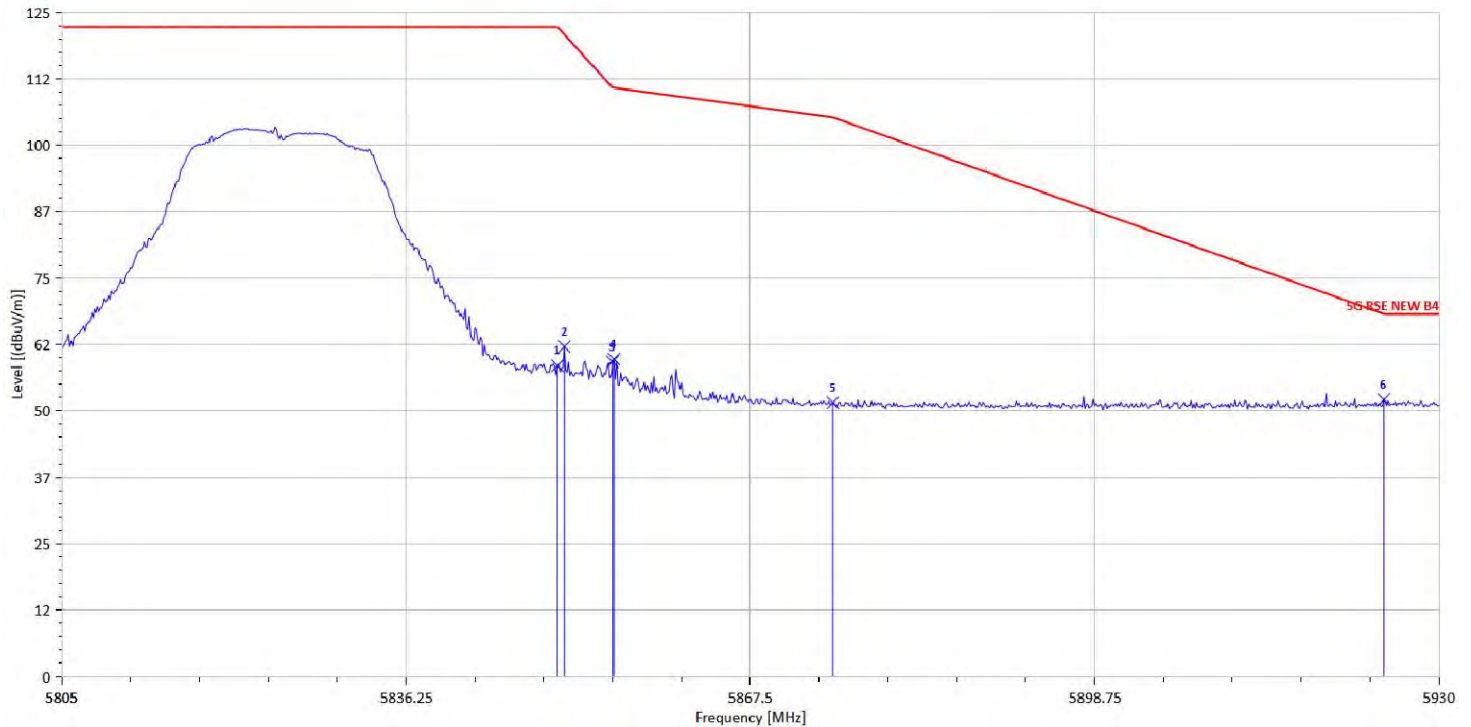
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	41.45	9.33	50.78	68.23	-17.45
5700.00	S	Peak	41.36	9.44	50.80	105.23	-54.43
5711.55	S	Peak	46.40	9.25	55.65	108.464	-52.81
5720.00	S	Peak	43.28	9.28	52.56	110.83	-58.27
5722.77	S	Peak	47.47	9.29	56.76	117.1456	-60.39
5725.00	E	Peak	46.69	9.30	55.99	122.23	-66.24

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Operation Mode :	802.11n20B4	Test Date :	2018/1/12
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	H	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
5850.00	E	Peak	49.01	9.49	58.50	122.23	-63.73
5850.63	S	Peak	52.59	9.50	62.09	120.805	-58.72
5855.00	S	Peak	49.66	9.58	59.24	110.83	-51.59
5855.13	S	Peak	50.16	9.58	59.74	110.795	-51.06
5875.00	S	Peak	41.89	9.63	51.53	105.23	-53.70
5925.00	S	Peak	42.10	10.01	52.11	68.23	-16.12

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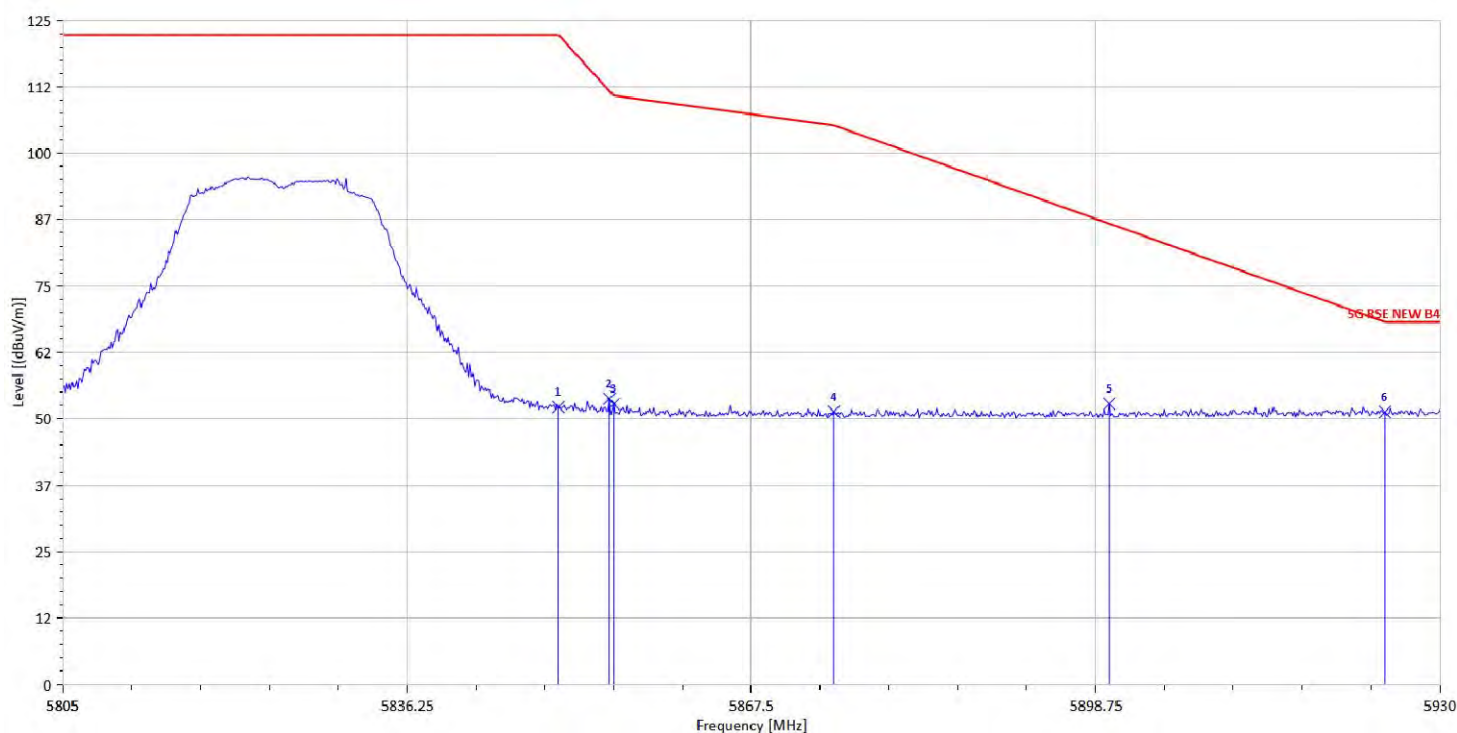
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Operation Mode :	802.11n20B4	Test Date :	2018/1/12
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



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
5850.00	E	Peak	42.76	9.49	52.24	122.23	-69.99
5854.63	S	Peak	44.23	9.57	53.81	111.685	-57.88
5855.00	S	Peak	43.21	9.58	52.79	110.83	-58.04
5875.00	S	Peak	41.72	9.63	51.35	105.23	-53.88
5900.00	S	Peak	43.12	9.72	52.84	86.73	-33.89
5925.00	S	Peak	41.27	10.01	51.28	68.23	-16.95

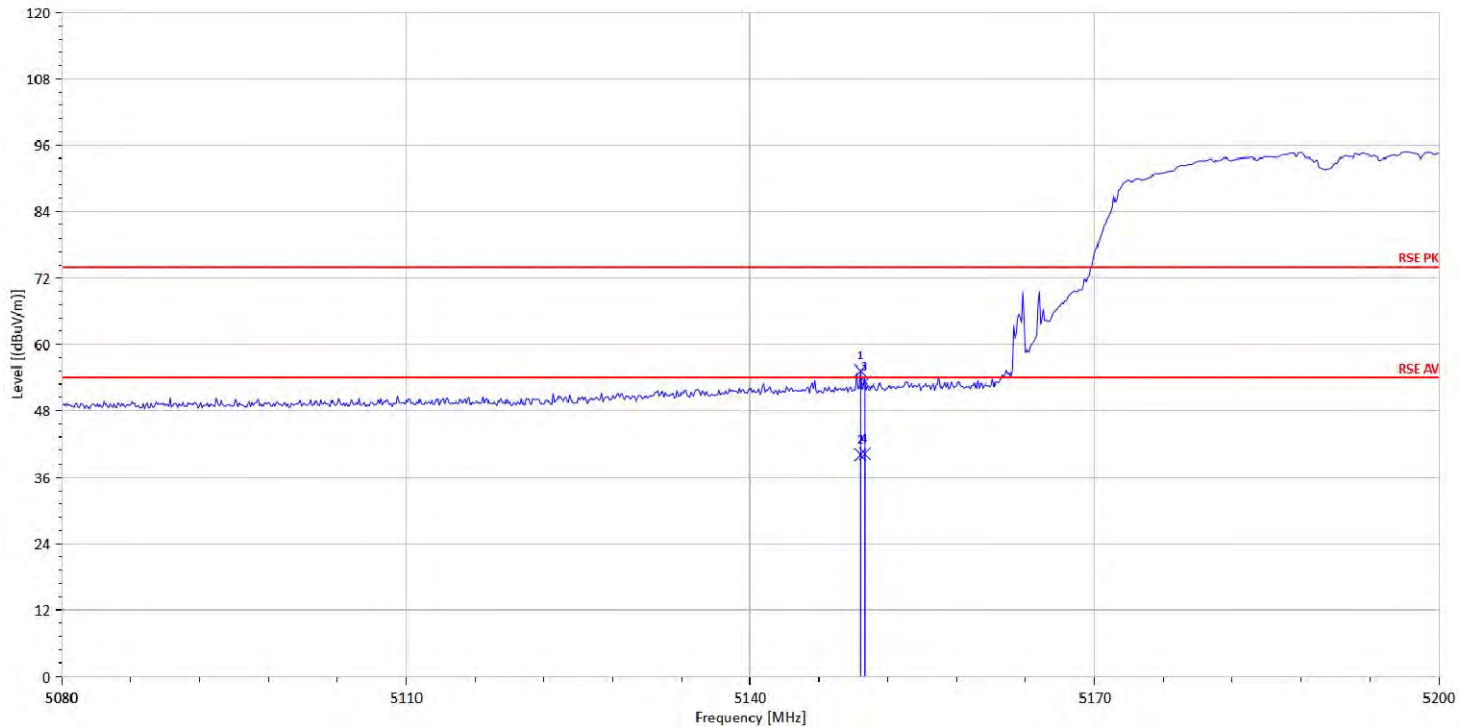
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802.11n40 HT mode

Operation Mode :	802.11n40B1	Test Date :	2018/1/10
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Ashton
EUT Pol. :	H	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
5149.60	S	Peak	47.04	8.19	55.23	74	-18.77
5149.60	S	Average	31.86	8.19	40.05	54	-13.95
5150.00	E	Peak	45.02	8.19	53.21	74	-20.79
5150.00	E	Average	32.05	8.19	40.24	54	-13.76

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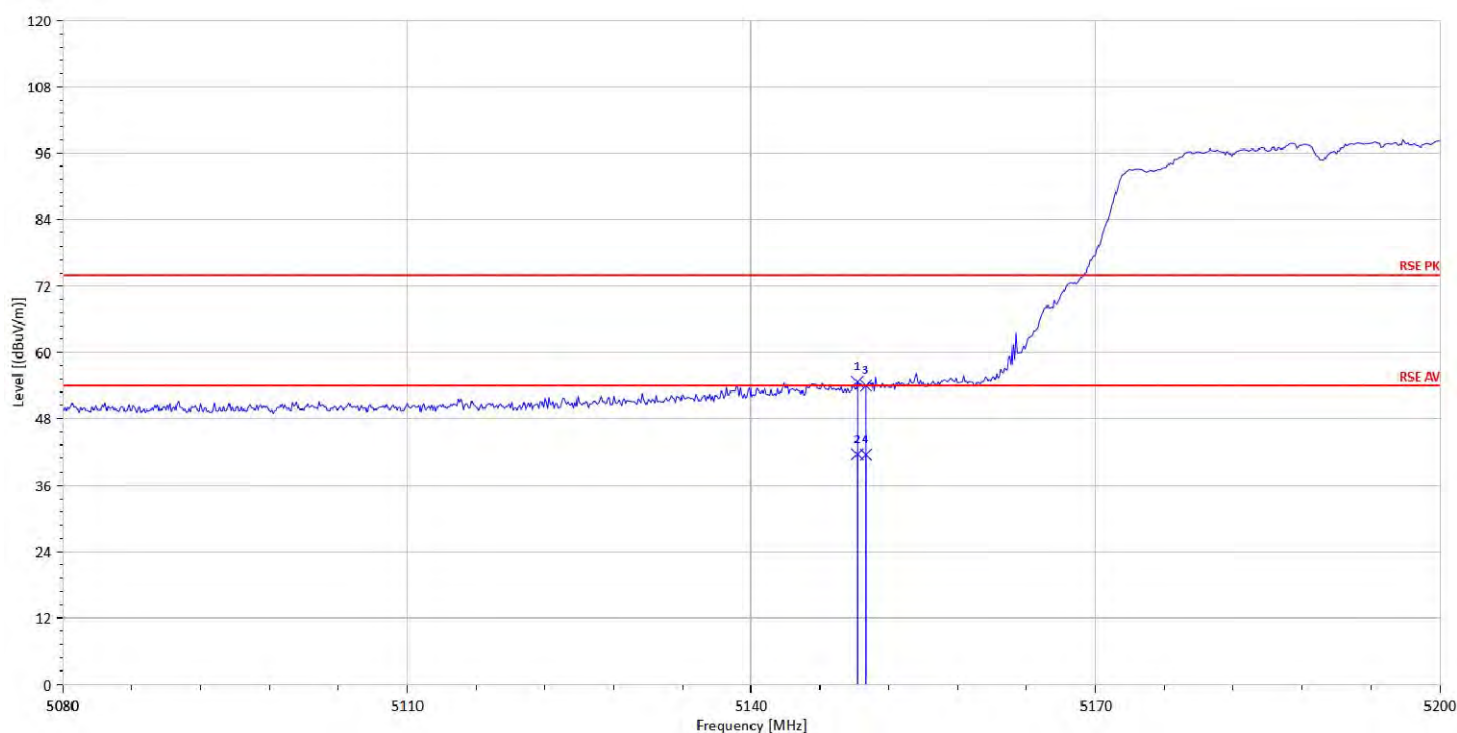
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Operation Mode :	802.11n40B1	Test Date :	2018/1/10
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



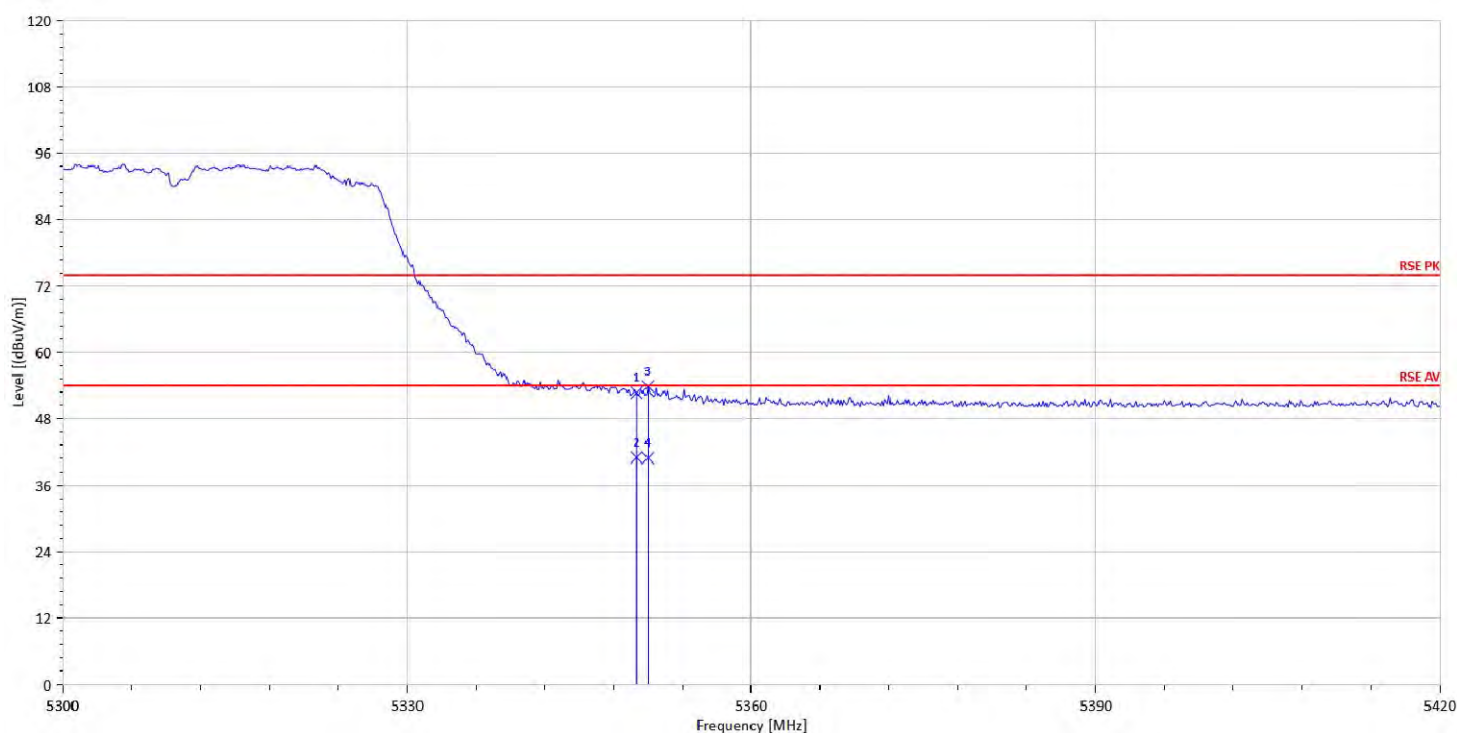
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5149.24	S	Peak	46.53	8.19	54.72	74	-19.28
5149.24	S	Average	33.40	8.19	41.59	74	-32.41
5150.00	E	Peak	45.81	8.19	54.00	74	-20.00
5150.00	E	Average	33.32	8.19	41.51	74	-32.49

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Operation Mode :	802.11n40B2	Test Date :	2018/1/10
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



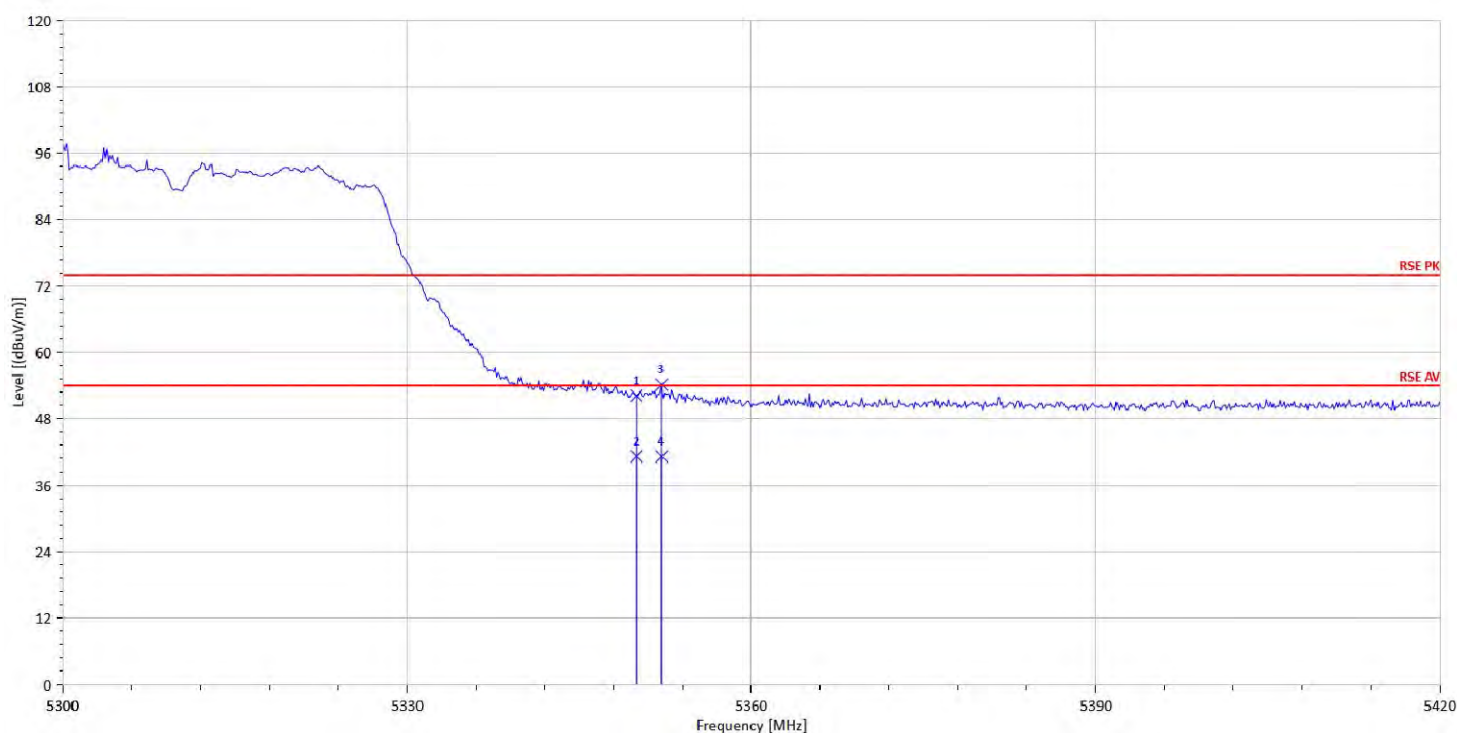
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Peak	43.73	8.96	52.69	74	-21.31
5350.00	E	Average	32.06	8.96	41.02	74	-32.98
5351.00	S	Peak	44.88	8.98	53.86	74	-20.14
5351.00	S	Average	31.94	8.98	40.92	74	-33.08

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Operation Mode :	802.11n40B2	Test Date :	2018/1/10
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Ashton
EUT Pol. :	H	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
5350.00	E	Peak	43.22	8.96	52.18	74	-21.82
5350.00	E	Average	32.26	8.96	41.22	74	-32.78
5352.20	S	Peak	45.17	9.00	54.17	74	-19.83
5352.20	S	Average	32.19	9.00	41.19	74	-32.81

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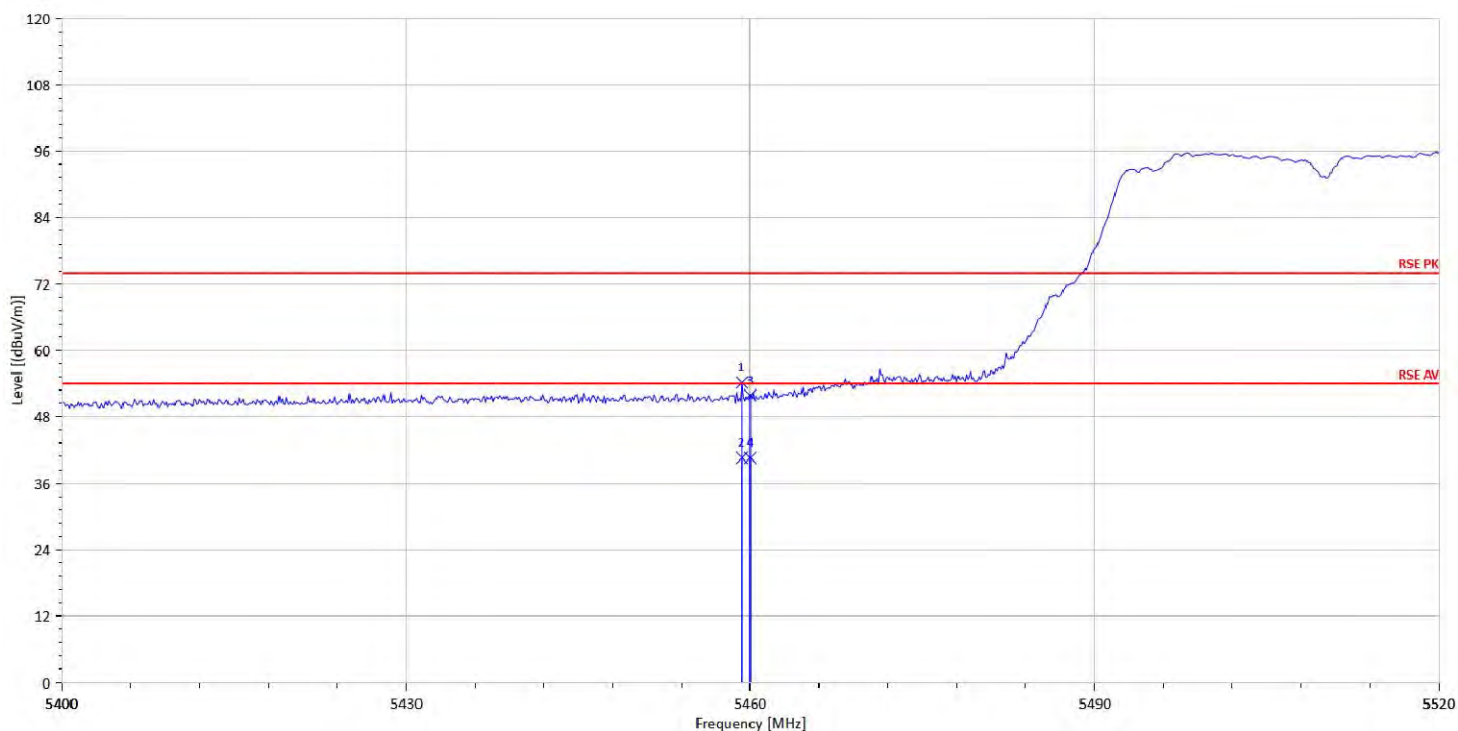
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Operation Mode :	802.11n40B3	Test Date :	2018/1/10
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



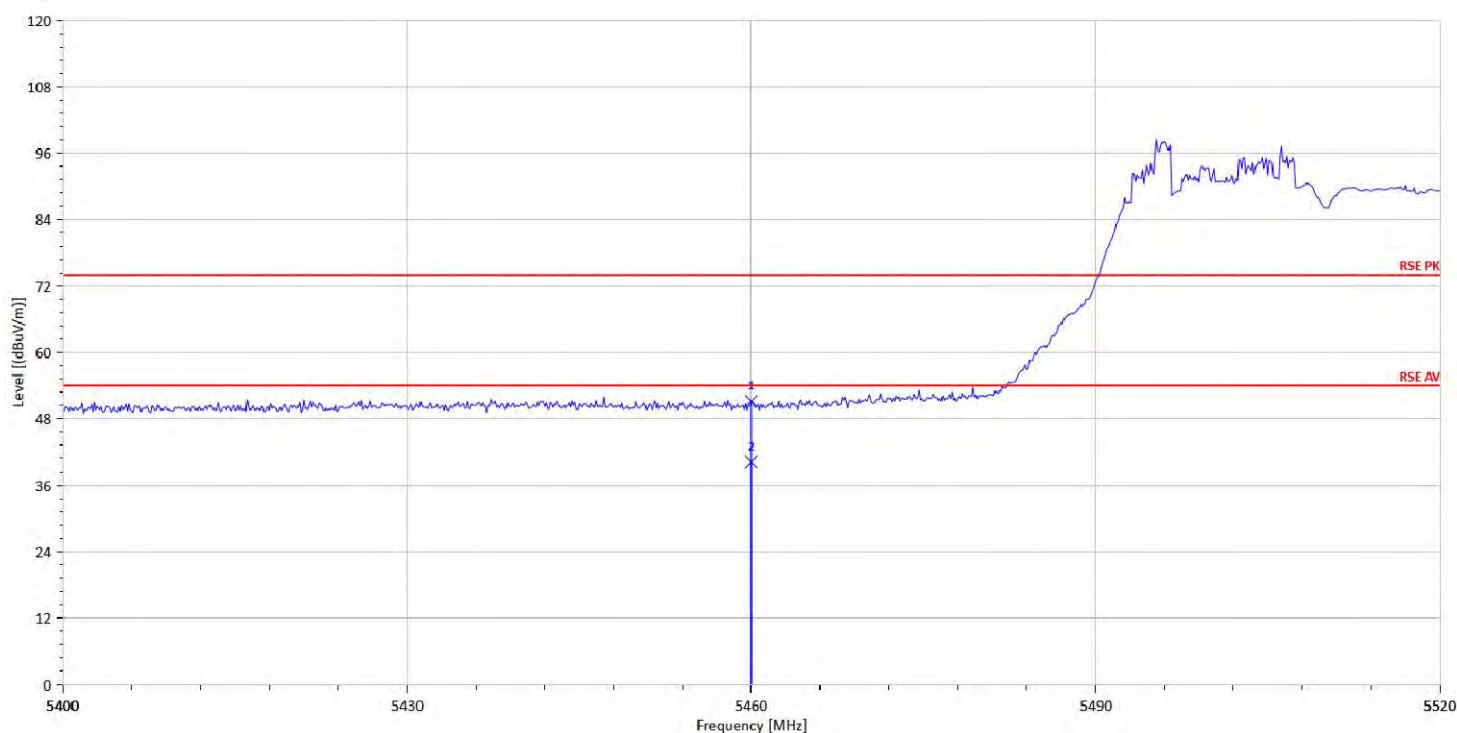
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5459.28	S	Peak	45.32	8.88	54.20	74	-19.80
5459.28	S	Average	31.72	8.88	40.60	74	-33.40
5460.00	E	Peak	43.02	8.88	51.90	74	-22.10
5460.00	E	Average	31.70	8.88	40.58	74	-33.42

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Operation Mode :	802.11n40B3	Test Date :	2018/1/10
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



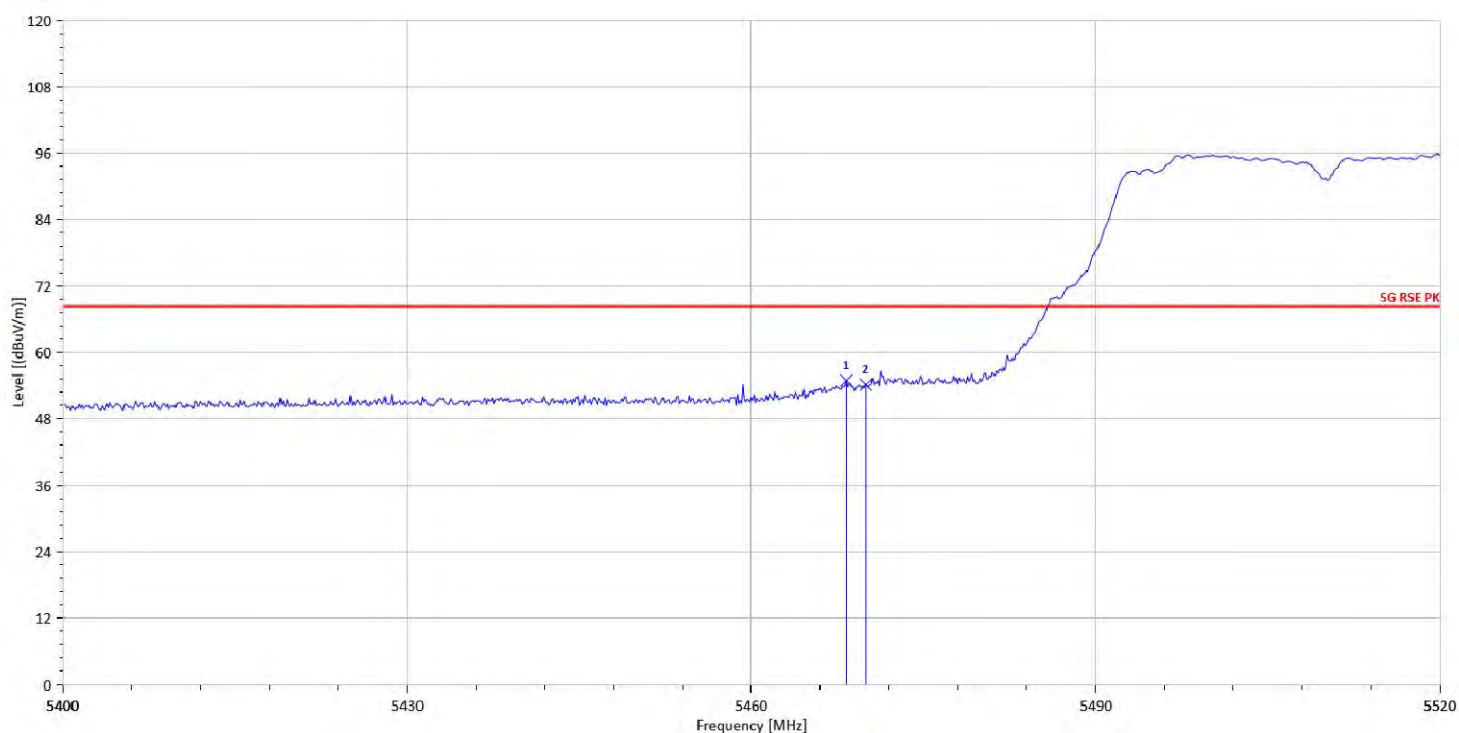
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Peak	42.32	8.88	51.20	74	-22.80
5460.00	E	Average	31.30	8.88	40.18	74	-33.82

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Operation Mode :	802.11n40B3	Test Date :	2018/1/10
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW RSE	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



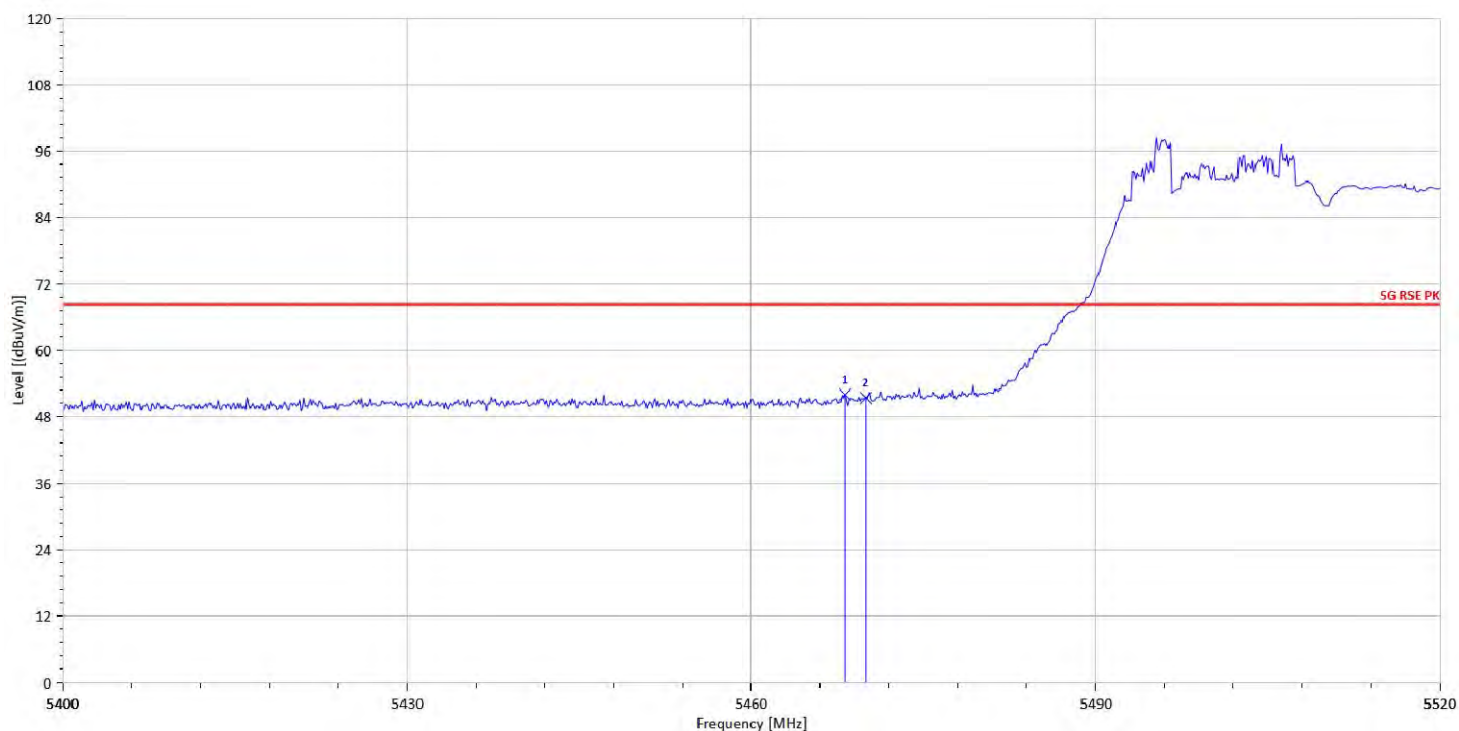
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5468.28	S	Peak	46.11	8.81	54.92	68.3	-13.38
5470.00	E	Peak	45.37	8.79	54.16	68.3	-14.14

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Operation Mode :	802.11n40B3	Test Date :	2018/1/10
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW RSE	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



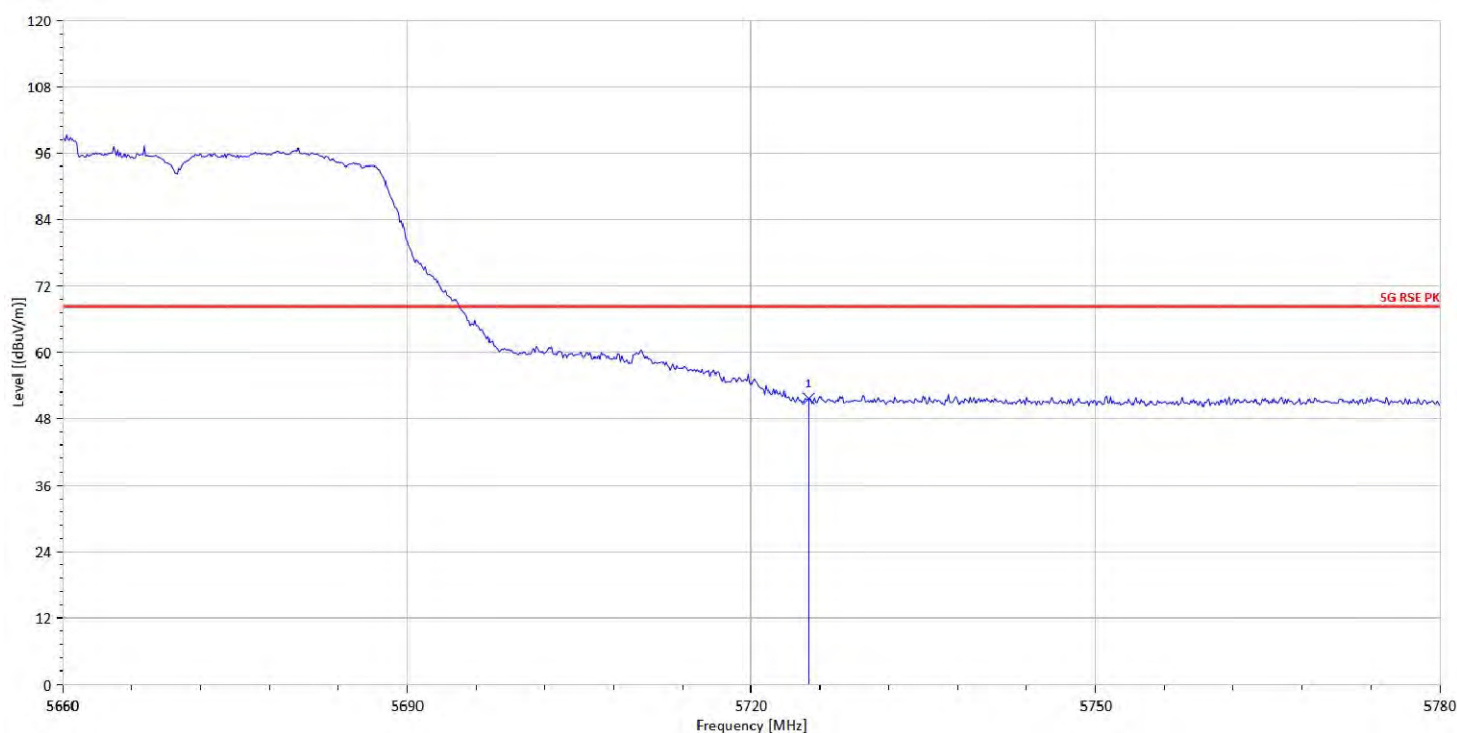
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5468.16	S	Peak	43.18	8.81	51.99	68.3	-16.31
5470.00	E	Peak	42.61	8.79	51.40	68.3	-16.90

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Operation Mode :	802.11n40B3	Test Date :	2018/1/10
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



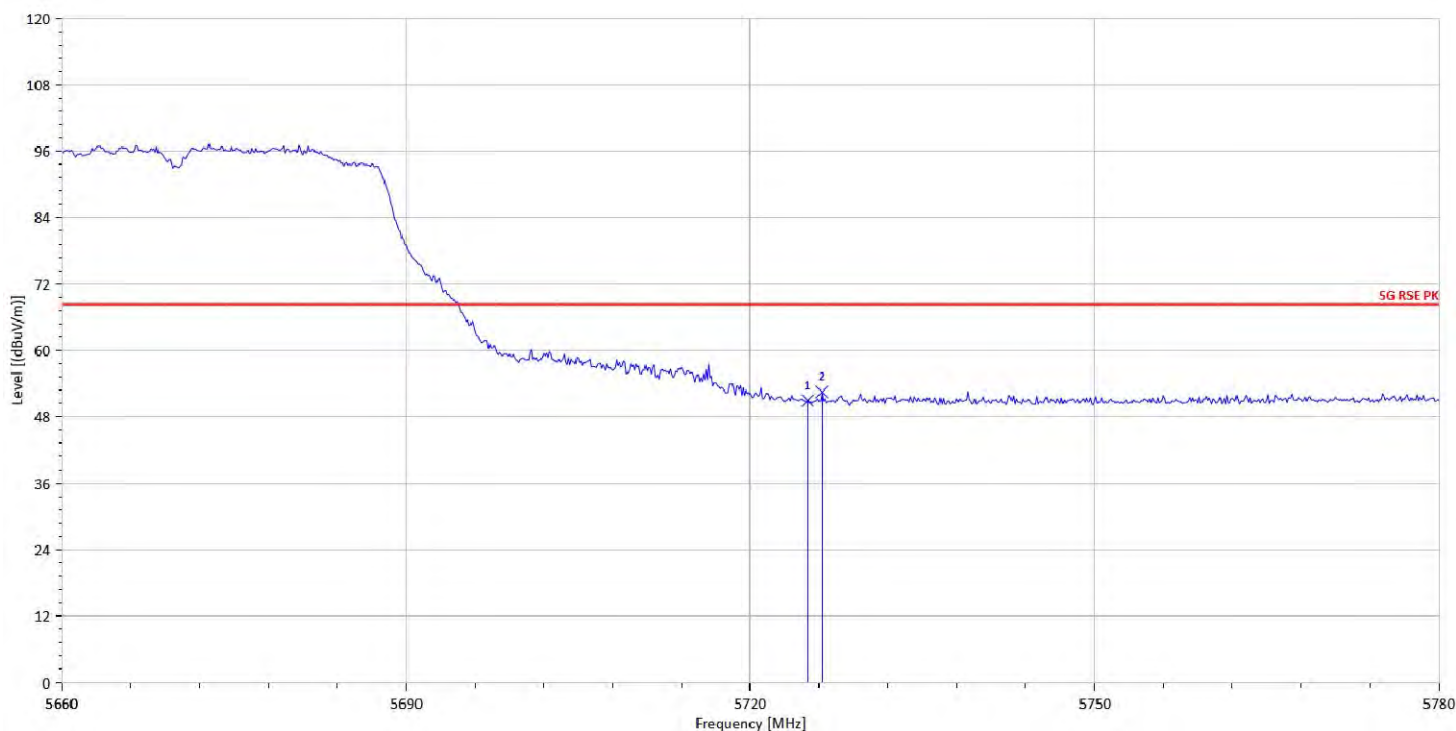
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	42.39	9.30	51.69	68.3	-16.61

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Operation Mode :	802.11n40B3	Test Date :	2018/1/10
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



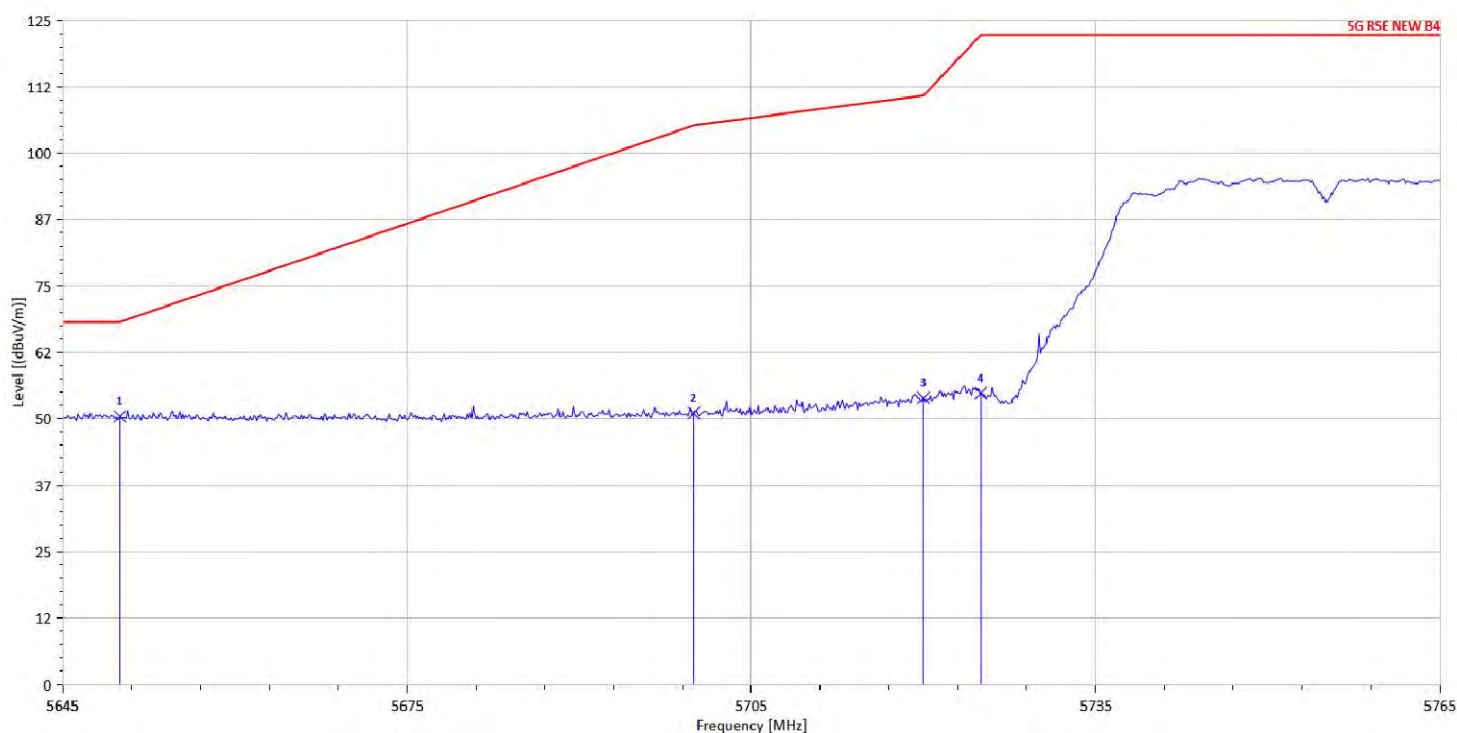
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	41.63	9.30	50.93	68.3	-17.37
5726.24	S	Peak	43.19	9.30	52.49	68.3	-15.81

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Operation Mode :	802.11n40B4	Test Date :	2018/1/10
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



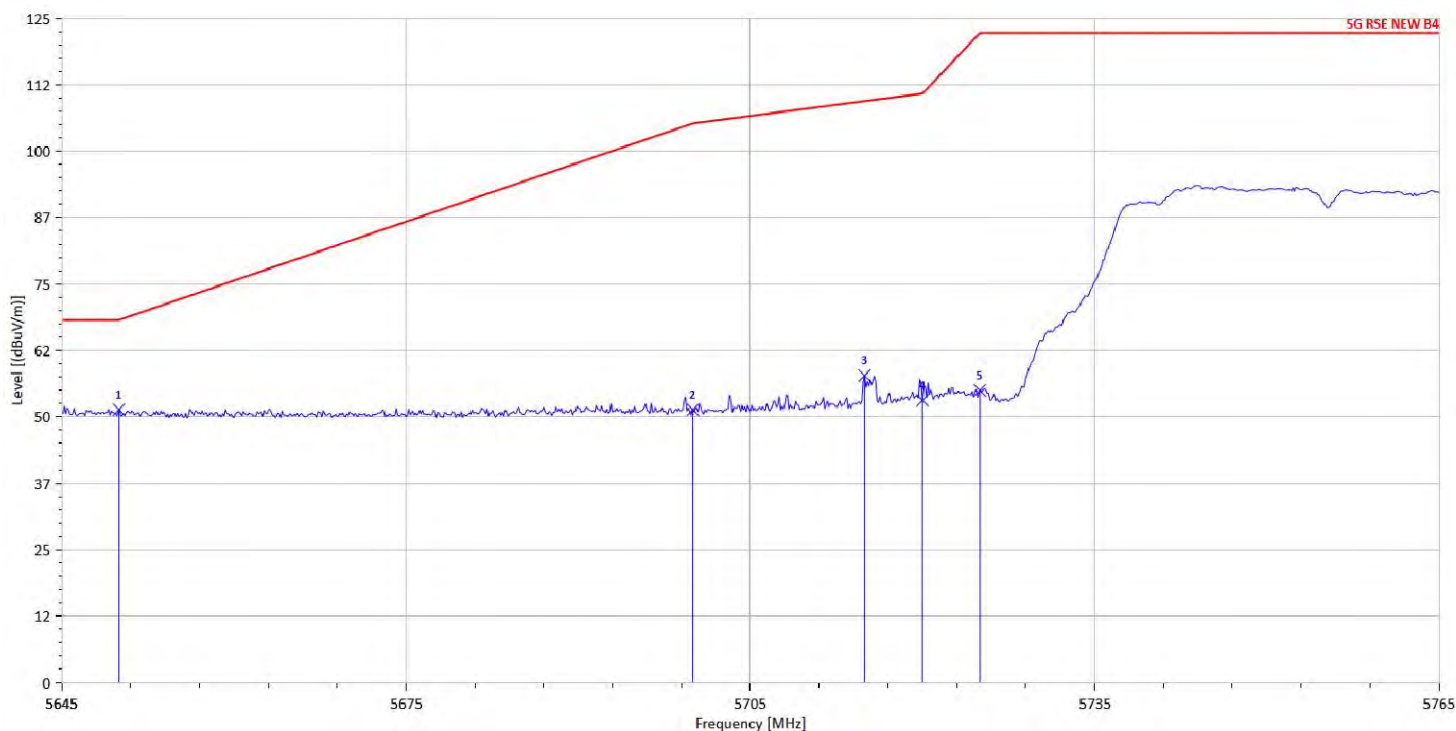
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5650.00	S	Peak	41.13	9.33	50.46	68.23	-17.77
5700.00	S	Peak	41.64	9.44	51.08	105.23	-54.15
5720.00	S	Peak	44.67	9.28	53.95	110.83	-56.88
5725.00	E	Peak	45.53	9.30	54.83	122.23	-67.40

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Operation Mode :	802.11n40B4	Test Date :	2018/1/10
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	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
5650.00	S	Peak	42.01	9.33	51.34	68.23	-16.89
5700.00	S	Peak	41.90	9.44	51.34	105.23	-53.89
5714.96	S	Peak	48.51	9.26	57.77	109.42	-51.65
5720.00	S	Peak	43.81	9.28	53.09	110.83	-57.74
5725.00	E	Peak	45.66	9.30	54.96	122.23	-67.27

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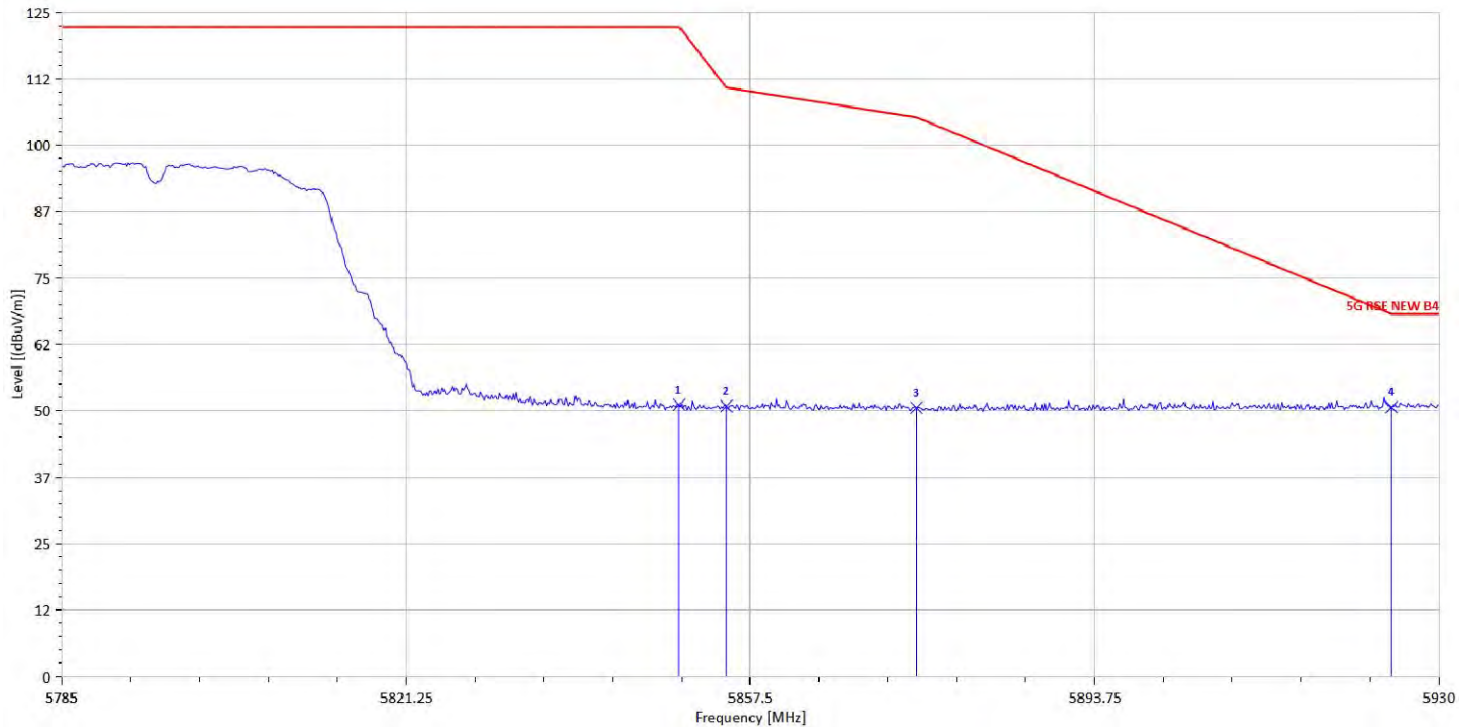
t (886-2) 2299-3279

f (886-2) 2298-0488

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Operation Mode :	802.11n40B4	Test Date :	2018/1/10
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



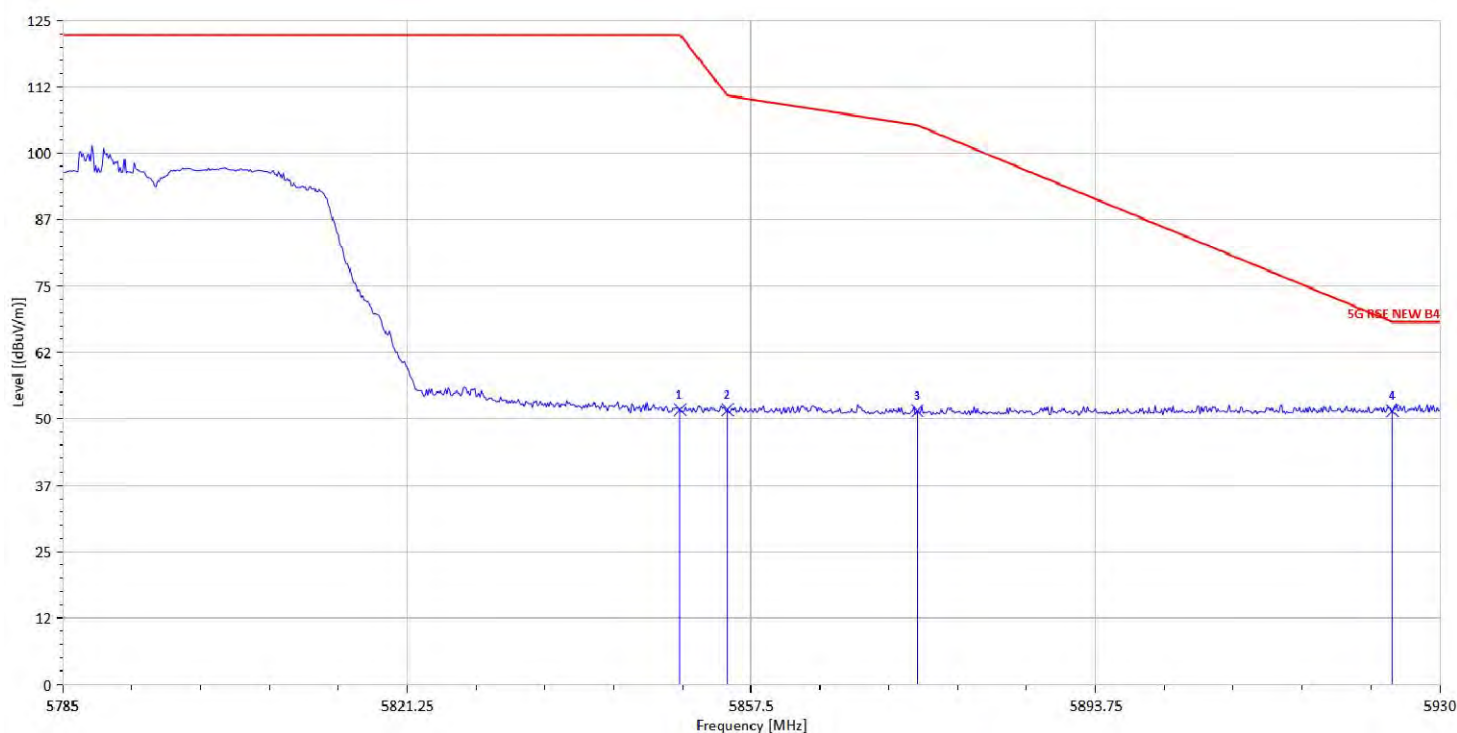
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	E	Peak	41.65	9.49	51.14	122.23	-71.09
5855.00	S	Peak	41.29	9.58	50.87	110.83	-59.96
5875.00	S	Peak	40.96	9.63	50.59	105.23	-54.64
5925.00	S	Peak	40.67	10.01	50.68	68.23	-17.55

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Operation Mode :	802.11n40B4	Test Date :	2018/1/10
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Ashton
EUT Pol. :	H	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
5850.00	E	Peak	42.24	9.49	51.73	122.23	-70.50
5855.00	S	Peak	42.13	9.58	51.71	110.83	-59.12
5875.00	S	Peak	41.89	9.63	51.52	105.23	-53.71
5925.00	S	Peak	41.49	10.01	51.50	68.23	-16.73

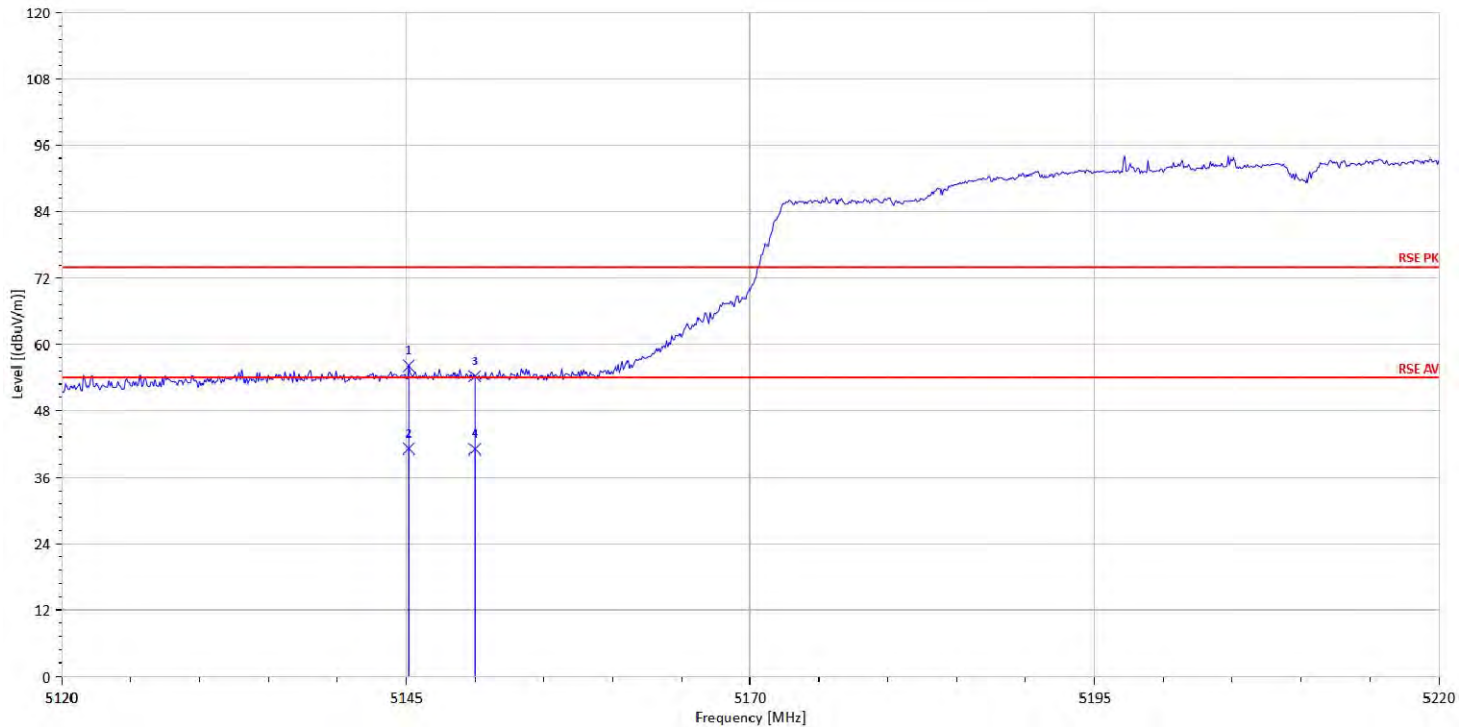
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802.11ac80 VHT mode

Operation Mode :	802.11ac80B1	Test Date :	2018/1/11
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



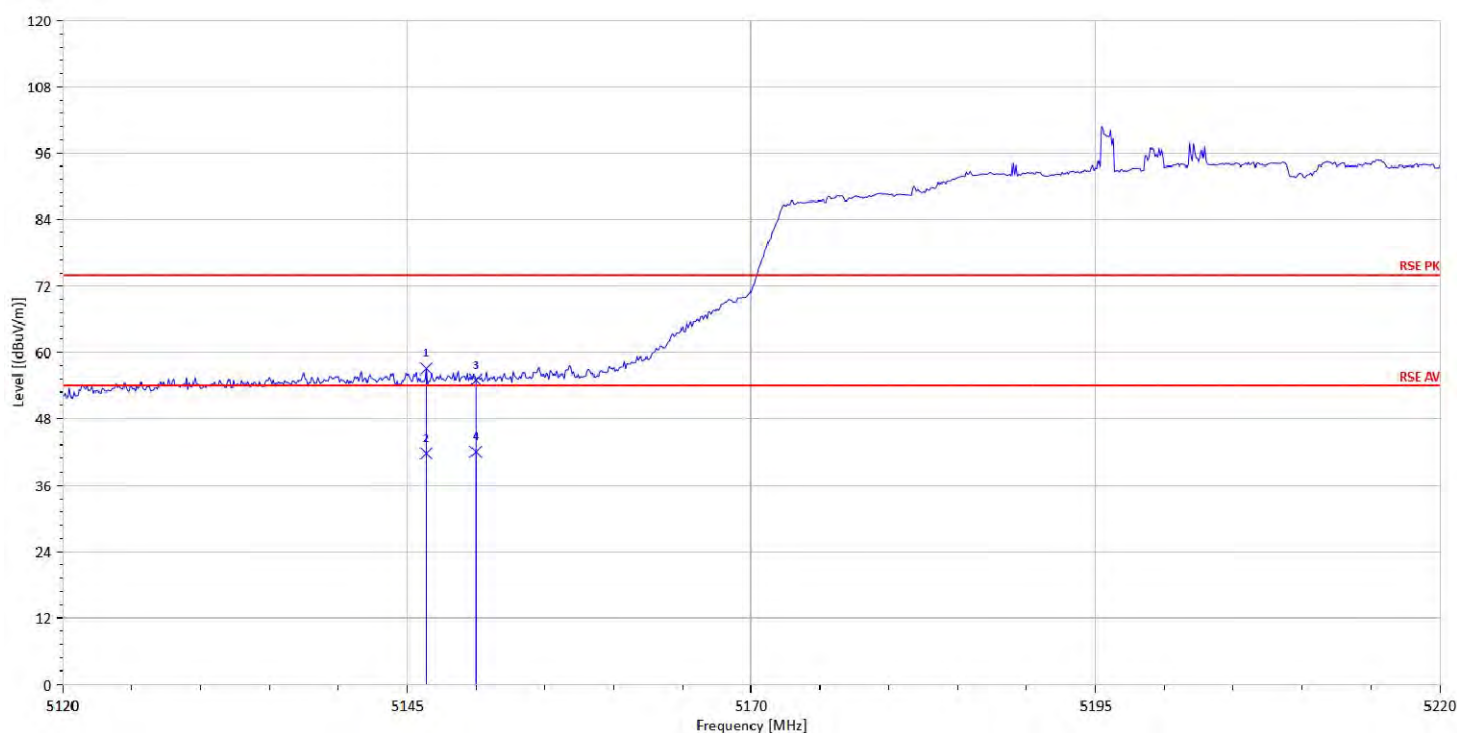
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5145.20	S	Peak	47.99	8.16	56.15	74	-17.85
5145.20	S	Average	33.02	8.16	41.18	74	-32.82
5150.00	E	Peak	46.05	8.19	54.24	74	-19.76
5150.00	E	Average	32.90	8.19	41.09	74	-32.91

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Operation Mode :	802.11ac80B1	Test Date :	2018/1/11
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



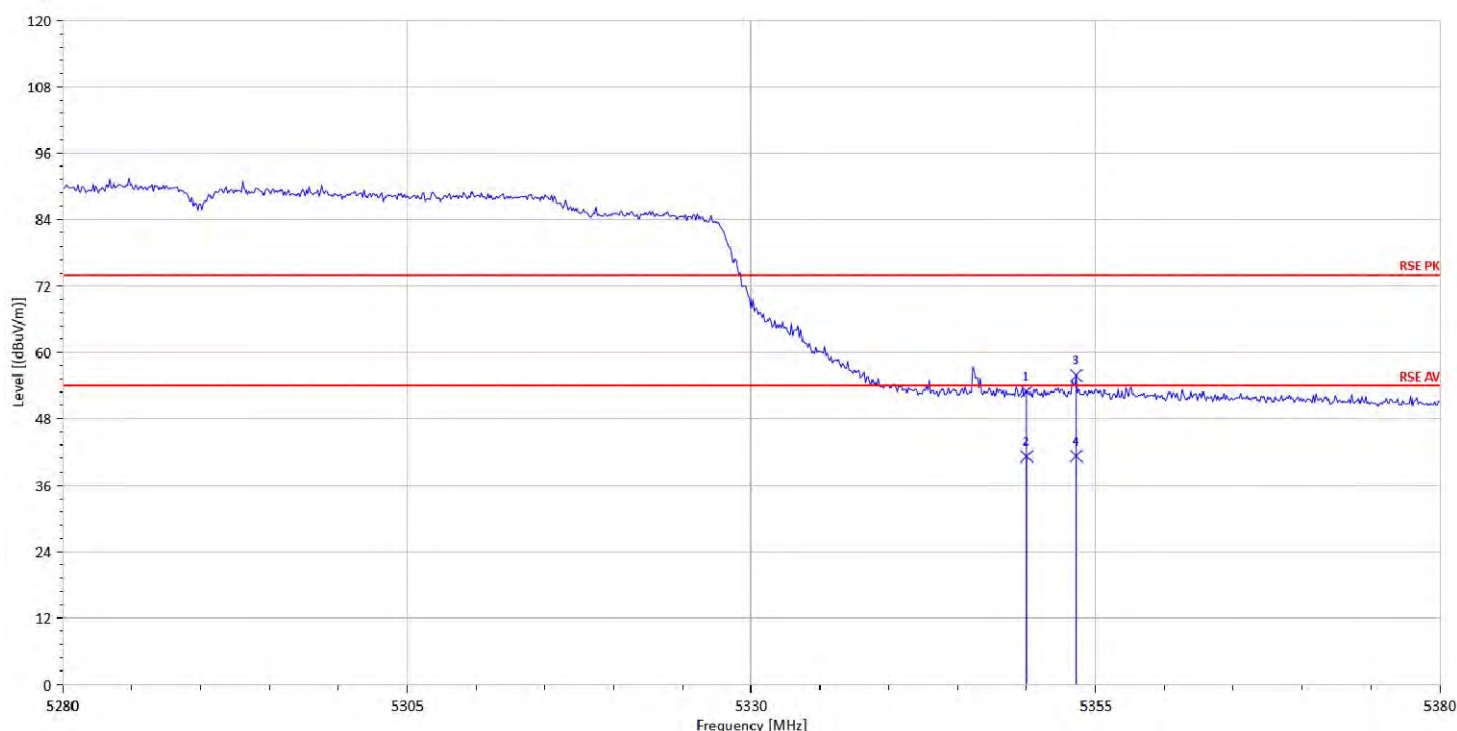
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5146.40	S	Peak	48.92	8.16	57.08	74	-16.92
5146.40	S	Average	33.58	8.16	41.74	74	-32.26
5150.00	E	Peak	46.82	8.19	55.01	74	-18.99
5150.00	E	Average	33.85	8.19	42.04	74	-31.96

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Operation Mode :	802.11ac80B2	Test Date :	2018/1/11
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



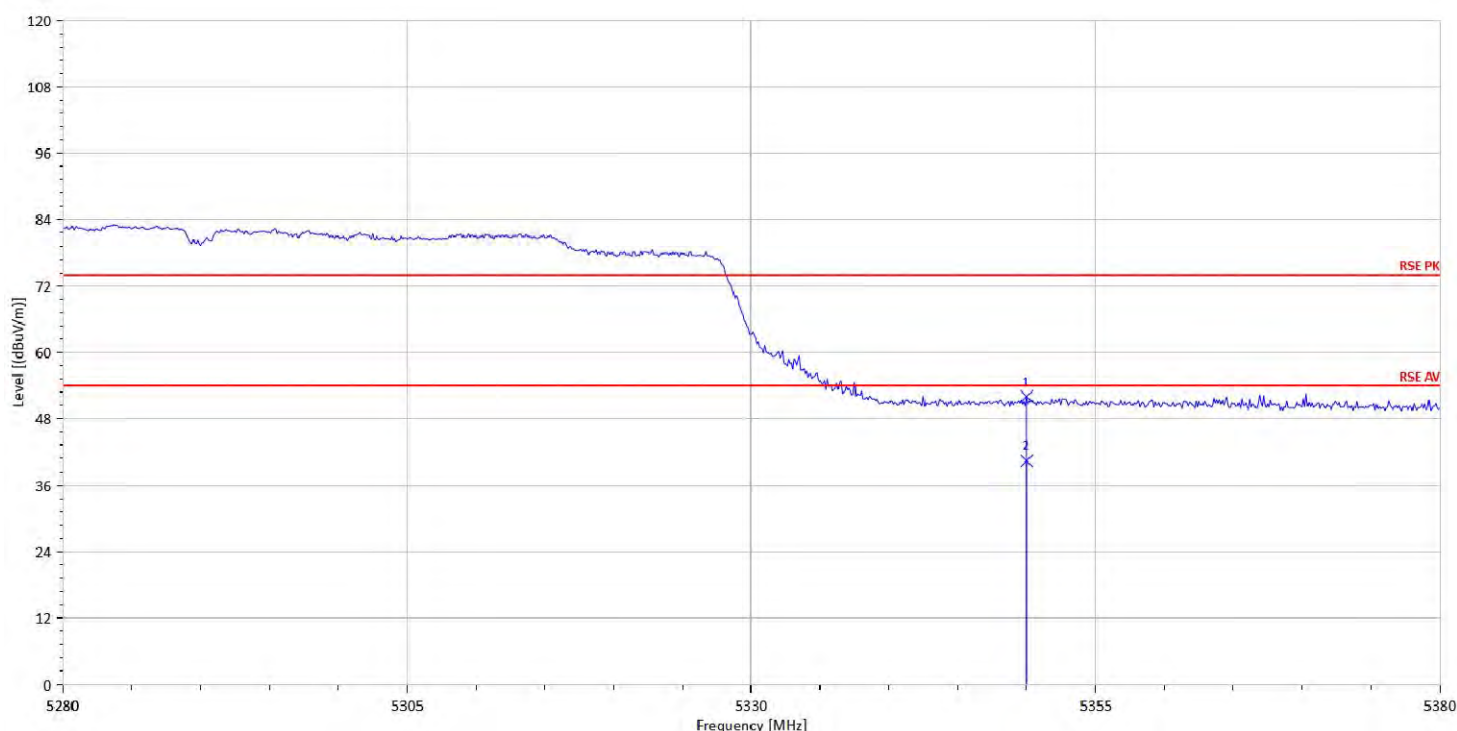
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Peak	44.02	8.96	52.98	74	-21.02
5350.00	E	Average	32.24	8.96	41.20	74	-32.80
5353.60	S	Peak	46.83	8.98	55.81	74	-18.19
5353.60	S	Average	32.27	8.98	41.25	74	-32.75

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Operation Mode :	802.11ac80B2	Test Date :	2018/1/11
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



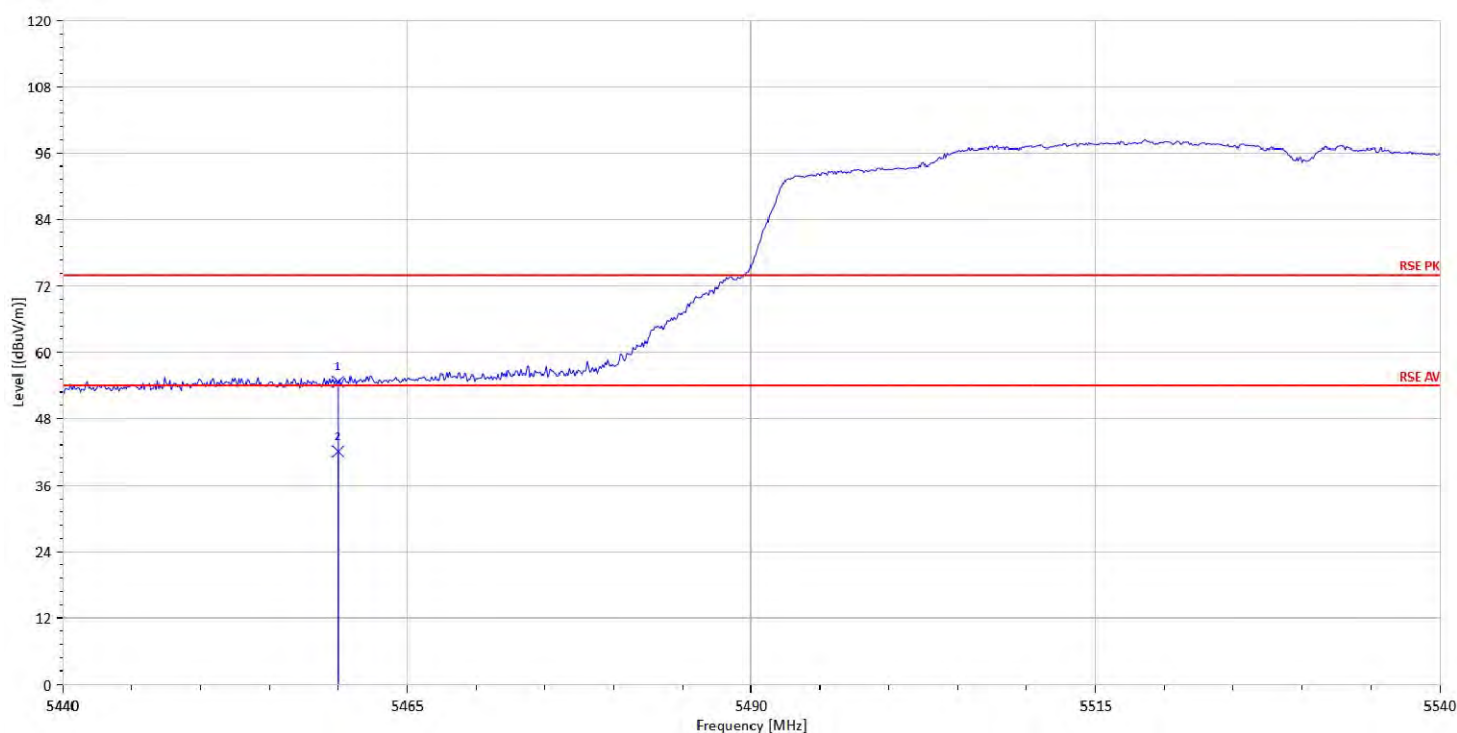
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Peak	43.10	8.96	52.06	74	-21.94
5350.00	E	Average	31.45	8.96	40.41	74	-33.59

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Operation Mode :	802.11ac80B3	Test Date :	2018/1/12
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



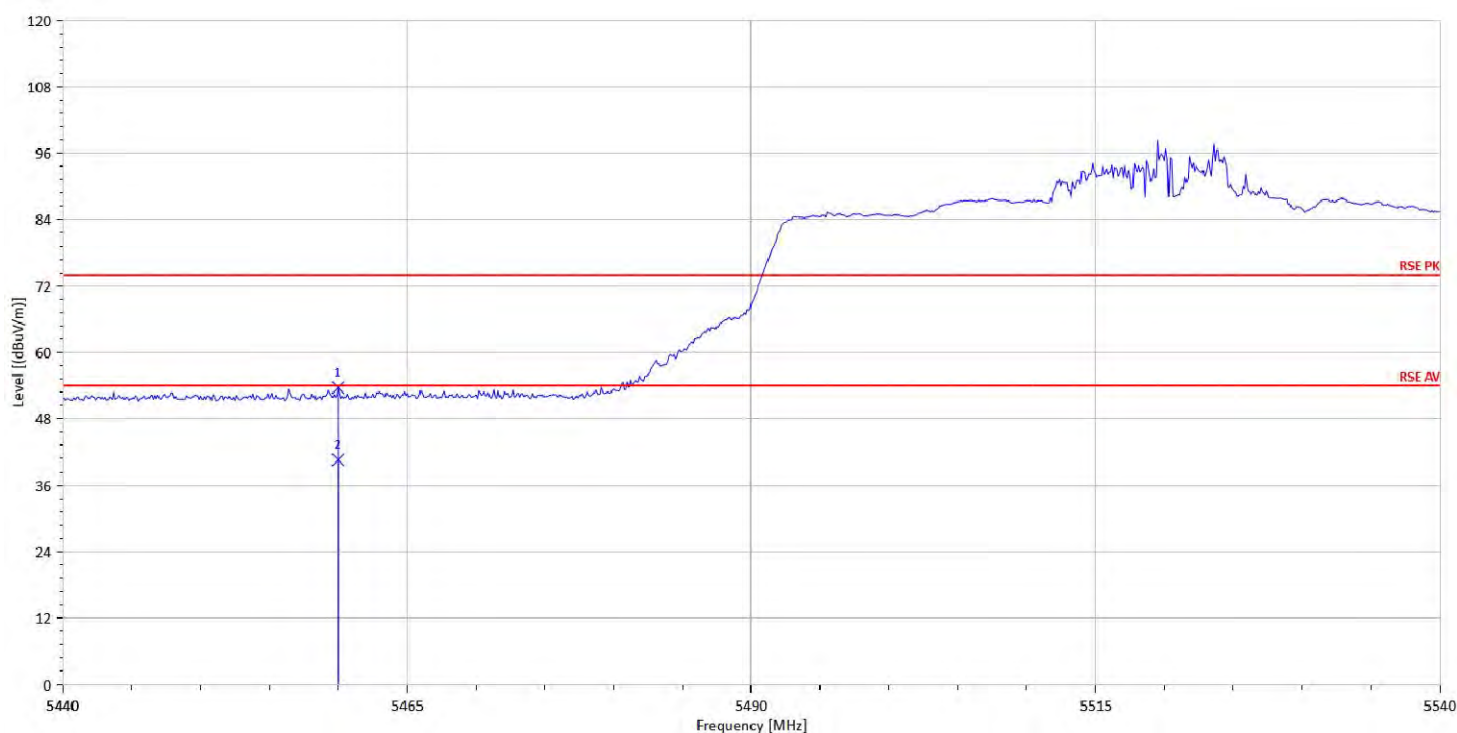
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Peak	45.82	8.88	54.70	74	-19.30
5460.00	E	Average	33.24	8.88	42.12	54	-11.88

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Operation Mode :	802.11ac80B3	Test Date :	2018/1/11
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



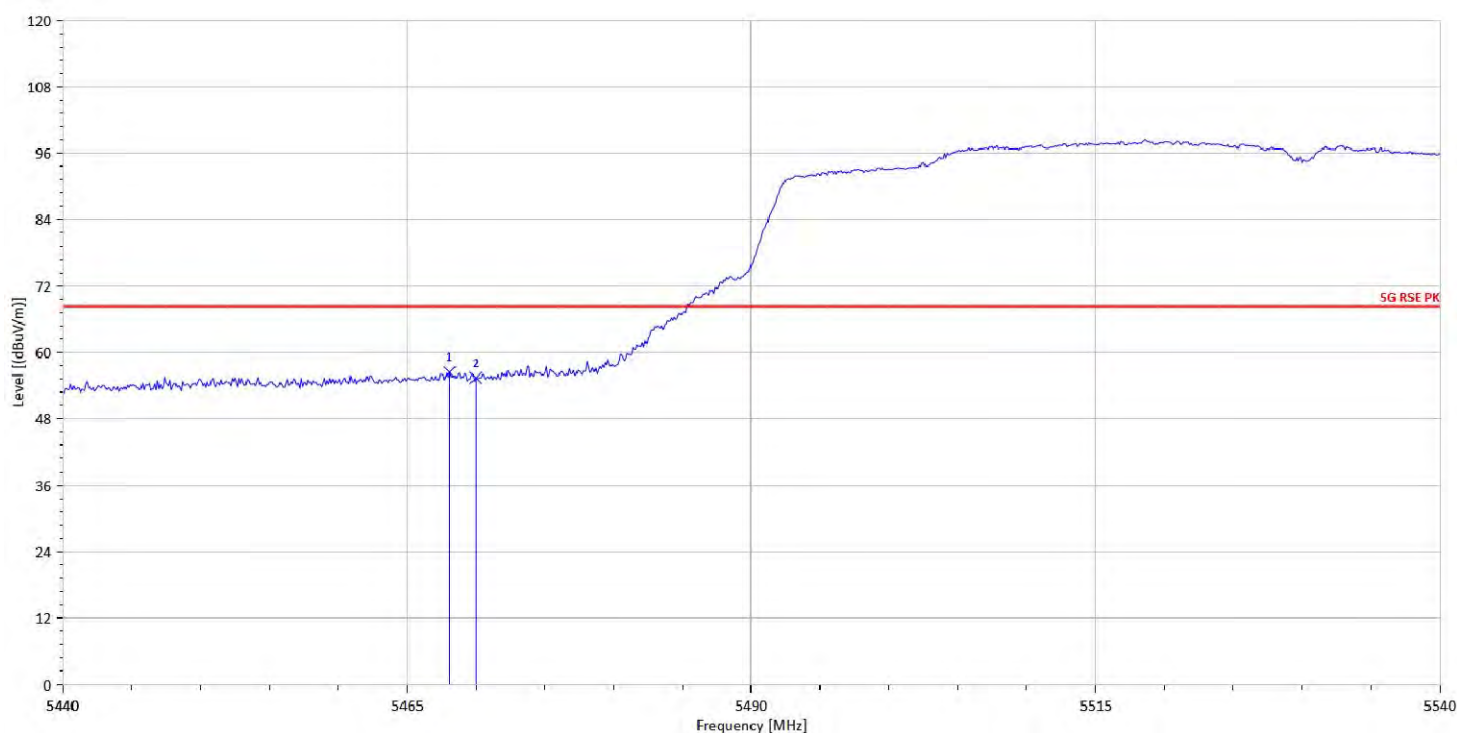
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Peak	44.77	8.88	53.65	74	-20.35
5460.00	E	Average	31.72	8.88	40.60	54	-13.40

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Operation Mode :	802.11ac80B3	Test Date :	2018/1/11
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW RSE	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



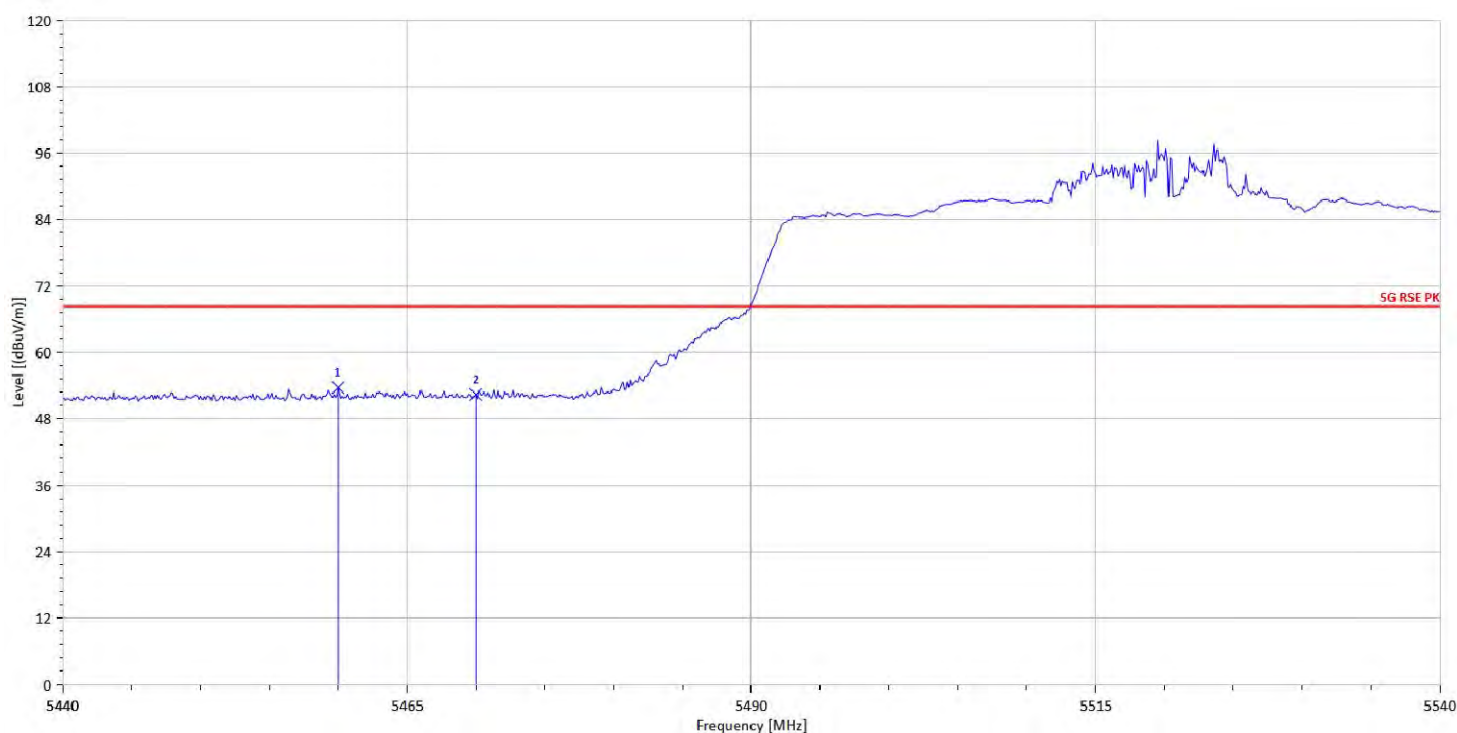
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5468.10	S	Peak	47.59	8.81	56.40	68.3	-11.90
5470.00	E	Peak	46.61	8.79	55.40	68.3	-12.90

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Operation Mode :	802.11ac80B3	Test Date :	2018/1/12
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW RSE	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



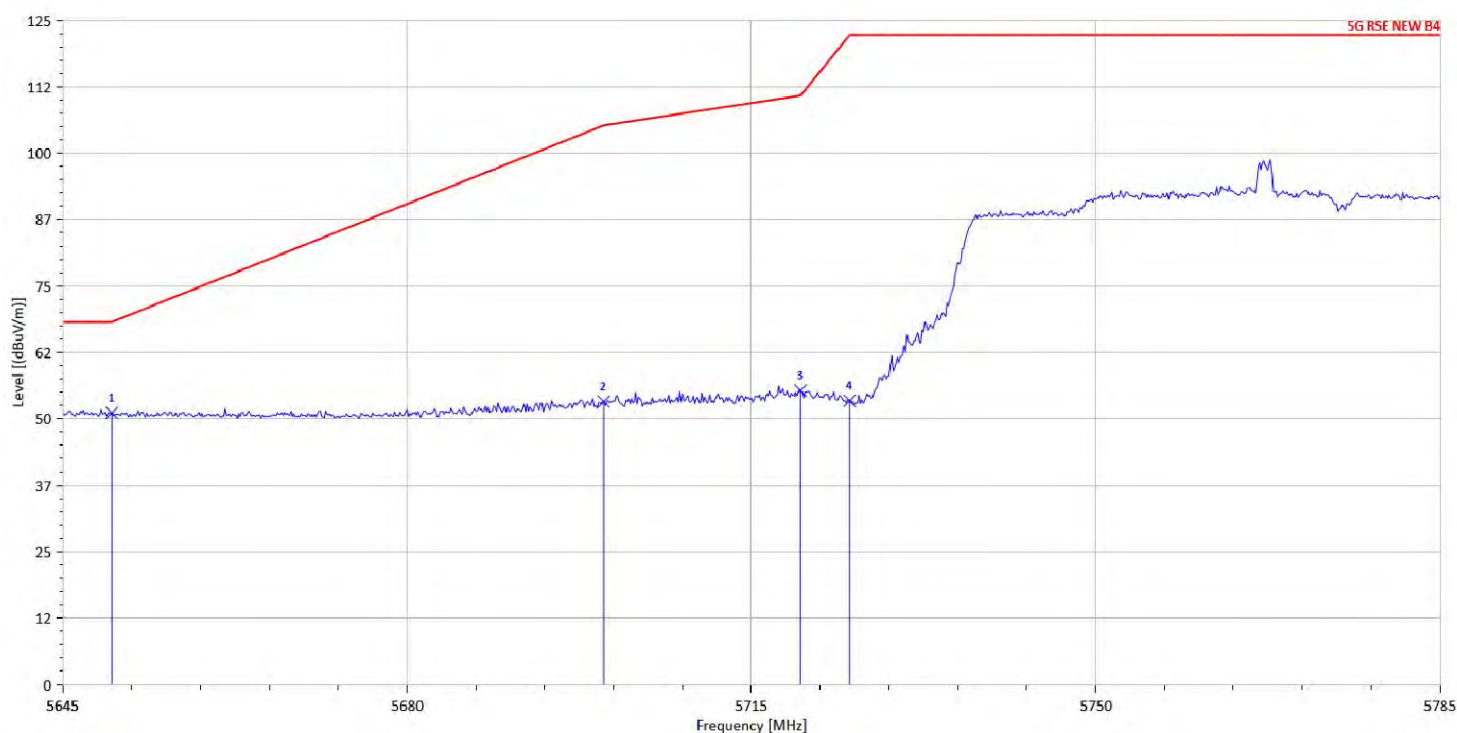
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	S	Peak	44.77	8.88	53.65	68.3	-14.65
5470.00	E	Peak	43.60	8.79	52.39	68.3	-15.91

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Operation Mode :	802.11ac80B4	Test Date :	2018/1/11
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



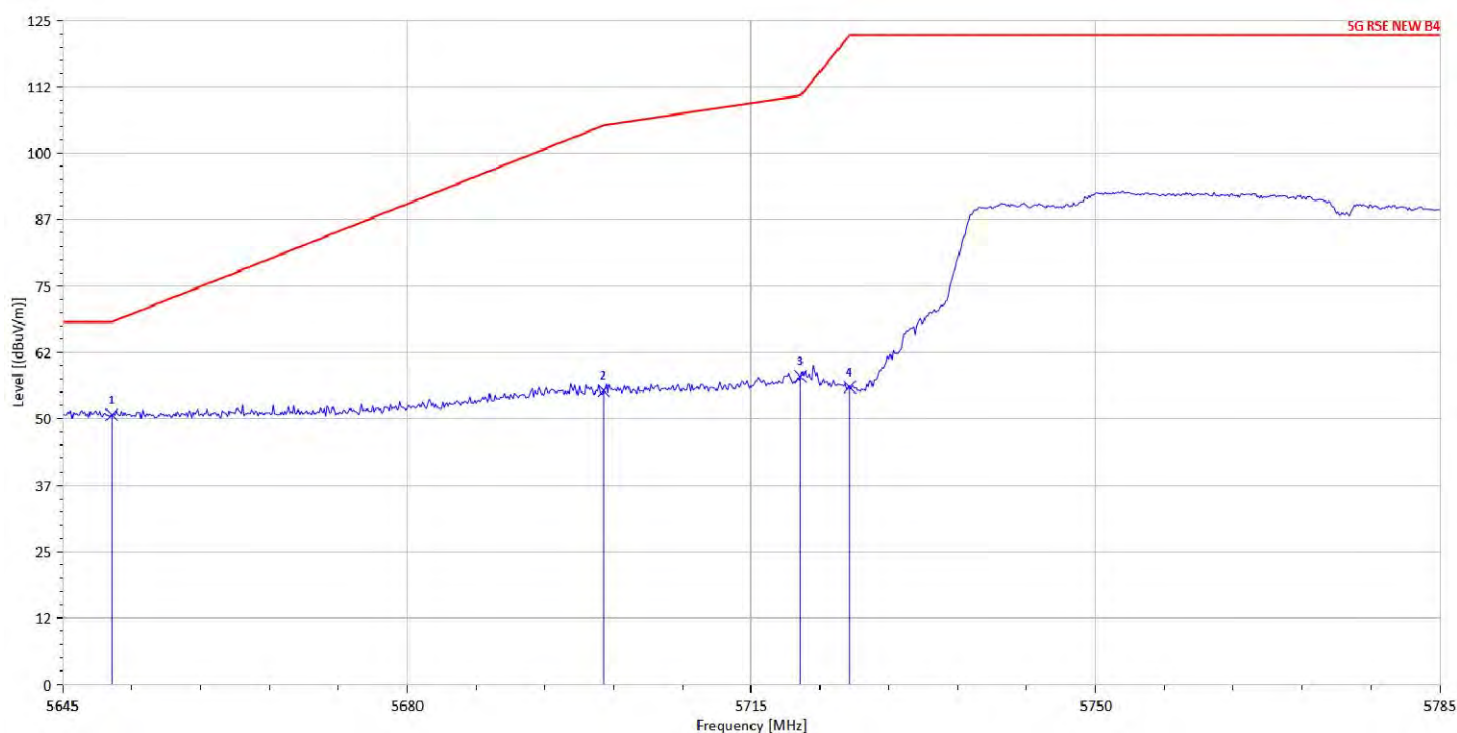
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5650.00	S	Peak	41.76	9.33	51.09	68.23	-17.14
5700.00	S	Peak	43.79	9.44	53.23	105.23	-52.00
5720.00	S	Peak	46.05	9.28	55.33	110.83	-55.50
5725.00	E	Peak	44.09	9.30	53.39	122.23	-68.84

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Operation Mode :	802.11ac80B4	Test Date :	2018/1/11
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



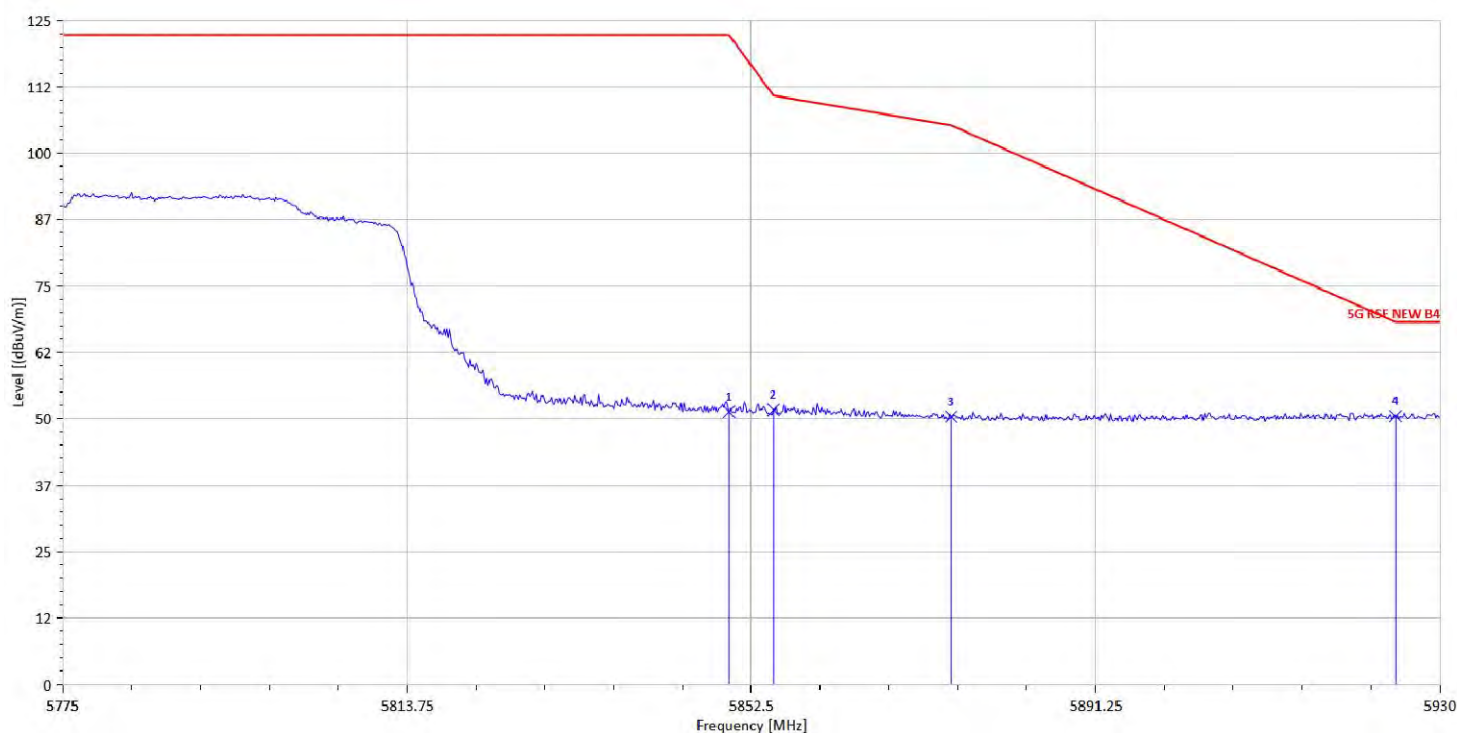
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5650.00	S	Peak	41.43	9.33	50.76	68.23	-17.47
5700.00	S	Peak	45.88	9.44	55.32	105.23	-49.91
5720.00	S	Peak	48.69	9.28	57.97	110.83	-52.86
5725.00	E	Peak	46.68	9.30	55.98	122.23	-66.25

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Operation Mode :	802.11ac80B4	Test Date :	2018/1/11
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



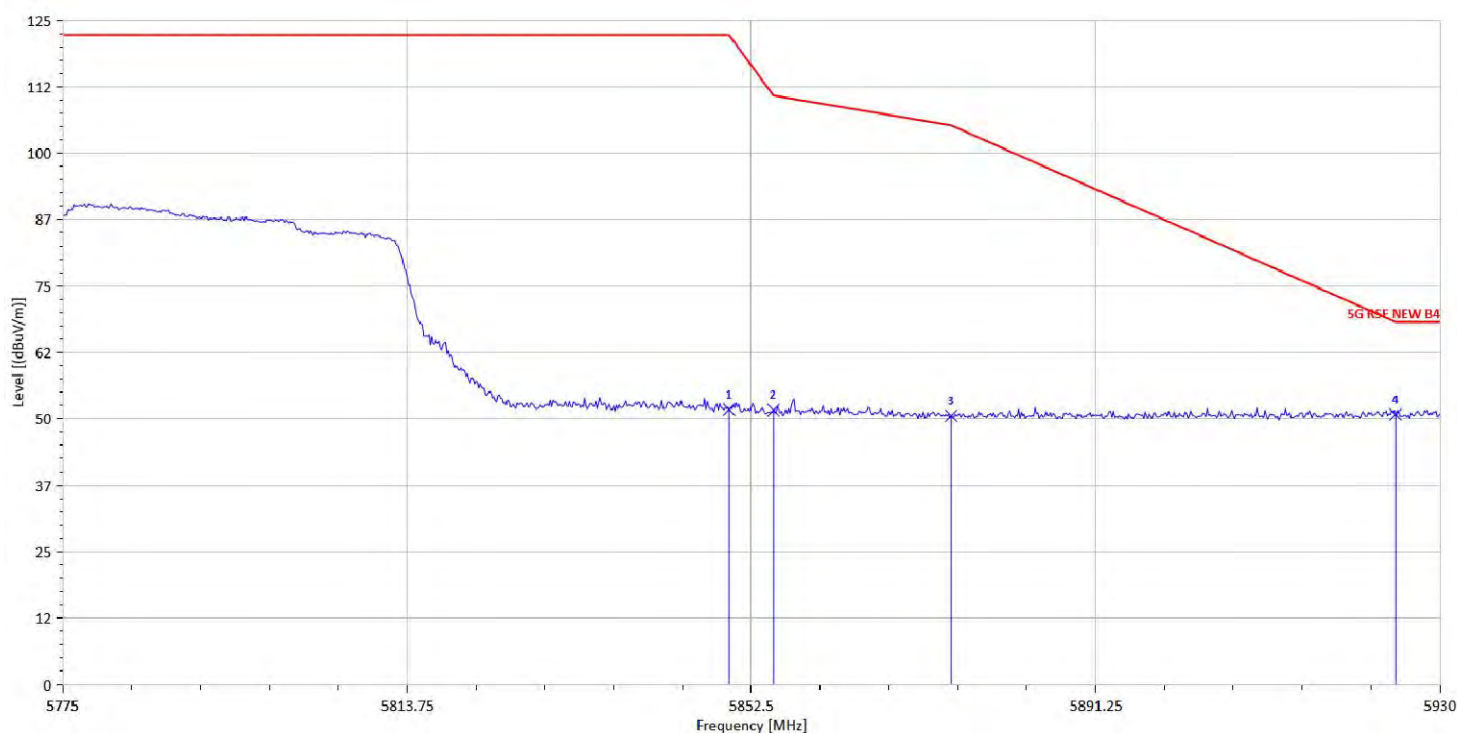
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	E	Peak	41.85	9.49	51.34	122.23	-70.89
5855.00	S	Peak	42.10	9.58	51.68	110.83	-59.15
5875.00	S	Peak	40.78	9.63	50.41	105.23	-54.82
5925.00	S	Peak	40.51	10.01	50.52	68.23	-17.71

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Operation Mode :	802.11ac80B4	Test Date :	2018/1/11
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Ashton
EUT Pol. :	H	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
5850.00	E	Peak	42.28	9.49	51.77	122.23	-70.46
5855.00	S	Peak	42.05	9.58	51.63	110.83	-59.20
5875.00	S	Peak	40.95	9.63	50.58	105.23	-54.65
5925.00	S	Peak	40.81	10.01	50.82	68.23	-17.41

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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

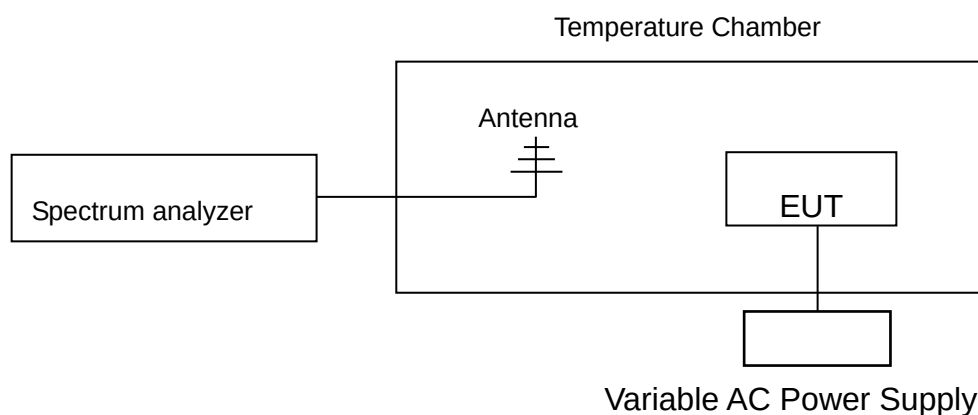
13.1 Standard Applicable

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	2018.02.09
Temperature	:12 °C	Test By	Anthony
Humidity	:72 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	8.74V	36	5180	5,179.98486	0.00000292
		44	5220	5,219.98486	0.00000290
		48	5240	5,239.98486	0.00000289
		52	5260	5,259.98486	0.00000288
		60	5300	5,299.98486	0.00000286
		64	5320	5,319.98486	0.00000285
		100	5500	5,499.98486	0.00000275
		116	5580	5,579.98486	0.00000271
		140	5700	5,699.98486	0.00000266
		149	5745	5,744.98486	0.00000263
		157	5785	5,784.98486	0.00000262
		165	5825	5,824.98486	0.00000260
	6.46V	36	5180	5,179.98486	0.00000292
		44	5220	5,219.98486	0.00000290
		48	5240	5,239.98486	0.00000289
		52	5260	5,259.98486	0.00000288
		60	5300	5,299.98486	0.00000286
		64	5320	5,319.98486	0.00000285
		100	5500	5,499.98486	0.00000275
		116	5580	5,579.98486	0.00000271
		140	5700	5,699.98486	0.00000266
		149	5745	5,744.98486	0.00000263
		157	5785	5,784.98486	0.00000262
		165	5825	5,824.98486	0.00000260

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25 °C	7.6V	36	5180	5,179.98486	0.00000292
		44	5220	5,219.98486	0.00000290
		48	5240	5,239.98486	0.00000289
		52	5260	5,259.98486	0.00000288
		60	5300	5,299.98486	0.00000286
		64	5320	5,319.98486	0.00000285
		100	5500	5,499.98486	0.00000275
		116	5580	5,579.98486	0.00000271
		140	5700	5,699.98486	0.00000266
		149	5745	5,744.98486	0.00000263
		157	5785	5,784.98486	0.00000262
		165	5825	5,824.98486	0.00000260

35 °C	8.74V	36	5180	5,179.98486	0.00000292
		44	5220	5,219.98486	0.00000290
		48	5240	5,239.98486	0.00000289
		52	5260	5,259.98486	0.00000288
		60	5300	5,299.98486	0.00000286
		64	5320	5,319.98486	0.00000285
		100	5500	5,499.98486	0.00000275
		116	5580	5,579.98486	0.00000271
		140	5700	5,699.98486	0.00000266
		149	5745	5,744.98486	0.00000263
		157	5785	5,784.98486	0.00000262
		165	5825	5,824.98486	0.00000260
	6.46V	36	5180	5,179.98486	0.00000292
		44	5220	5,219.98486	0.00000290
		48	5240	5,239.98486	0.00000289
		52	5260	5,259.98486	0.00000288
		60	5300	5,299.98486	0.00000286
		64	5320	5,319.98486	0.00000285
		100	5500	5,499.98486	0.00000275
		116	5580	5,579.98486	0.00000271
		140	5700	5,699.98486	0.00000266
		149	5745	5,744.98486	0.00000263
		157	5785	5,784.98486	0.00000262
		165	5825	5,824.98486	0.00000260

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Operation Mode	802.11 n_HT40	Test Date	2018.02.09
Temperature	:12 °C	Test By	Anthony
Humidity	:72 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	8.74V	38	5190	5,190.00000	0.00000000
		46	5230	5,230.00000	0.00000000
		54	5270	5,270.00000	0.00000000
		62	5310	5,310.00000	0.00000000
		102	5510	5,510.00000	0.00000000
		110	5550	5,550.00000	0.00000000
		134	5670	5,670.00000	0.00000000
		142	5710	5,710.00000	0.00000000
		151	5755	5,755.00000	0.00000000
		159	5795	5,795.00000	0.00000000
	6.46V	38	5190	5,190.00000	0.00000000
		46	5230	5,230.00000	0.00000000
		54	5270	5,270.00000	0.00000000
		62	5310	5,310.00000	0.00000000
		102	5510	5,510.00000	0.00000000
		110	5550	5,550.00000	0.00000000
		134	5670	5,670.00000	0.00000000
		142	5710	5,710.00000	0.00000000
		151	5755	5,755.00000	0.00000000
		159	5795	5,795.00000	0.00000000

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25 °C	7.6V	38	5190	5,190.00000	0.00000000
		46	5230	5,230.00000	0.00000000
		54	5270	5,270.00000	0.00000000
		62	5310	5,310.00000	0.00000000
		102	5510	5,510.00000	0.00000000
		110	5550	5,550.00000	0.00000000
		134	5670	5,670.00000	0.00000000
		142	5710	5,710.00000	0.00000000
		151	5755	5,755.00000	0.00000000
		159	5795	5,795.00000	0.00000000
35 °C	8.74V	38	5190	5,190.00000	0.00000000
		46	5230	5,230.00000	0.00000000
		54	5270	5,270.00000	0.00000000
		62	5310	5,310.00000	0.00000000
		102	5510	5,510.00000	0.00000000
		110	5550	5,550.00000	0.00000000
		134	5670	5,670.00000	0.00000000
		142	5710	5,710.00000	0.00000000
		151	5755	5,755.00000	0.00000000
		159	5795	5,795.00000	0.00000000
	6.46V	38	5190	5,190.00000	0.00000000
		46	5230	5,230.00000	0.00000000
		54	5270	5,270.00000	0.00000000
		62	5310	5,310.00000	0.00000000
		102	5510	5,510.00000	0.00000000
		110	5550	5,550.00000	0.00000000
		134	5670	5,670.00000	0.00000000
		142	5710	5,710.00428	-0.00000075
		151	5755	5,755.00000	0.00000000
		159	5795	5,795.00000	0.00000000

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Operation Mode	802.11 ac_VHT80	Test Date	2018.02.09
Temperature	:12 °C	Test By	Anthony
Humidity	:72 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	8.74V	42	5210	5,210.00000	0.00000000
		58	5290	5,290.00000	0.00000000
		106	5530	5,530.00000	0.00000000
		122	5610	5,610.00000	0.00000000
		138	5690	5,690.00000	0.00000000
		155	5775	5,775.00000	0.00000000
	6.46V	42	5210	5,210.00000	0.00000000
		58	5290	5,290.00000	0.00000000
		106	5530	5,530.00000	0.00000000
		122	5610	5,610.00000	0.00000000
		138	5690	5,690.00000	0.00000000
		155	5775	5,775.00000	0.00000000
25 °C	7.6V	42	5210	5,210.00000	0.00000000
		58	5290	5,290.00000	0.00000000
		106	5530	5,530.00000	0.00000000
		122	5610	5,610.00000	0.00000000
		138	5690	5,690.00000	0.00000000
		155	5775	5,775.00000	0.00000000
35 °C	8.74V	42	5210	5,210.00000	0.00000000
		58	5290	5,290.00000	0.00000000
		106	5530	5,530.00000	0.00000000
		122	5610	5,610.00000	0.00000000
		138	5690	5,690.00000	0.00000000
		155	5775	5,775.00000	0.00000000
	6.46V	42	5210	5,210.00000	0.00000000
		58	5290	5,290.00000	0.00000000
		106	5530	5,530.00000	0.00000000
		122	5610	5,610.00000	0.00000000
		138	5690	5,690.00000	0.00000000
		155	5775	5,775.00000	0.00000000

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2 Minutes:

Operation Mode	802.11 a	Test Date	2018.02.09
Temperature	:12 °C	Test By	Anthony
Humidity	:72 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	8.74V	36	5180	5,179.93564	0.00001242
		44	5220	5,219.95261	0.00000908
		48	5240	5,239.98620	0.00000263
		52	5260	5,259.99279	0.00000137
		60	5300	5,299.99573	0.00000081
		64	5320	5,319.99970	0.00000006
		100	5500	5,499.92046	0.00001446
		116	5580	5,579.91726	0.00001483
		140	5700	5,699.93881	0.00001074
		149	5745	5,744.99637	0.00000063
		157	5785	5,784.98238	0.00000305
		165	5825	5,824.91559	0.00001449
	6.46V	36	5180	5,179.91110	0.00001716
		44	5220	5,219.90713	0.00001779
		48	5240	5,239.91220	0.00001676
		52	5260	5,259.91839	0.00001552
		60	5300	5,299.93484	0.00001229
		64	5320	5,319.96795	0.00000602
		100	5500	5,499.90776	0.00001677
		116	5580	5,579.95087	0.00000880
		140	5700	5,699.94473	0.00000970
		149	5745	5,744.91610	0.00001460
		157	5785	5,784.93990	0.00001039
		165	5825	5,824.95221	0.00000820

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25 °C	7.6V	36	5180	5,179.93571	0.00001241
		44	5220	5,219.92515	0.00001434
		48	5240	5,239.93837	0.00001176
		52	5260	5,259.93920	0.00001156
		60	5300	5,299.96188	0.00000719
		64	5320	5,319.95482	0.00000849
		100	5500	5,499.94812	0.00000943
		116	5580	5,579.91974	0.00001438
		140	5700	5,699.93917	0.00001067
		149	5745	5,744.93771	0.00001084
		157	5785	5,784.97047	0.00000510
		165	5825	5,824.99906	0.00000016

35 °C	8.74V	36	5180	5,179.94752	0.00001013
		44	5220	5,219.90633	0.00001794
		48	5240	5,239.91887	0.00001548
		52	5260	5,259.98320	0.00000319
		60	5300	5,299.90628	0.00001768
		64	5320	5,319.94533	0.00001028
		100	5500	5,499.90035	0.00001812
		116	5580	5,579.92946	0.00001264
		140	5700	5,699.97101	0.00000509
		149	5745	5,744.96398	0.00000627
		157	5785	5,784.96256	0.00000647
		165	5825	5,824.95871	0.00000709
	6.46V	36	5180	5,179.93614	0.00001233
		44	5220	5,219.93791	0.00001189
		48	5240	5,239.91395	0.00001642
		52	5260	5,259.91284	0.00001657
		60	5300	5,299.99697	0.00000057
		64	5320	5,319.99429	0.00000107
		100	5500	5,499.95703	0.00000781
		116	5580	5,579.94421	0.00001000
		140	5700	5,699.94795	0.00000913
		149	5745	5,744.90986	0.00001569
		157	5785	5,784.95495	0.00000779
		165	5825	5,824.94183	0.00000999

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Operation Mode	802.11 n_HT40	Test Date	2018.02.09
Temperature	:12 °C	Test By	Anthony
Humidity	:72 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	8.74V	38	5190	5,189.93005	0.00001348
		46	5230	5,229.98443	0.00000298
		54	5270	5,269.91293	0.00001652
		62	5310	5,309.94488	0.00001038
		102	5510	5,509.91544	0.00001535
		110	5550	5,549.93804	0.00001116
		134	5670	5,669.98678	0.00000233
		142	5710	5,709.96382	0.00000634
		151	5755	5,754.94247	0.00001000
		159	5795	5,794.95387	0.00000796
	6.46V	38	5190	5,189.93086	0.00001332
		46	5230	5,229.95194	0.00000919
		54	5270	5,269.98723	0.00000242
		62	5310	5,309.98545	0.00000274
		102	5510	5,509.98104	0.00000344
		110	5550	5,549.99908	0.00000017
		134	5670	5,669.92587	0.00001307
		142	5710	5,709.91566	0.00001477
		151	5755	5,754.91098	0.00001547
		159	5795	5,794.95871	0.00000713

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25 °C	7.6V	38	5190	5,189.91531	0.00001632
		46	5230	5,229.98337	0.00000318
		54	5270	5,269.92995	0.00001329
		62	5310	5,309.90468	0.00001795
		102	5510	5,509.91470	0.00001548
		110	5550	5,549.91158	0.00001593
		134	5670	5,669.91076	0.00001574
		142	5710	5,709.99199	0.00000140
		151	5755	5,754.93965	0.00001049
		159	5795	5,794.94899	0.00000880
35 °C	8.74V	38	5190	5,189.91651	0.00001609
		46	5230	5,229.97036	0.00000567
		54	5270	5,269.95216	0.00000908
		62	5310	5,309.98108	0.00000356
		102	5510	5,509.98621	0.00000250
		110	5550	5,549.93030	0.00001256
		134	5670	5,669.92333	0.00001352
		142	5710	5,709.94780	0.00000914
		151	5755	5,754.90507	0.00001650
		159	5795	5,794.94241	0.00000994
	6.46V	38	5190	5,189.90895	0.00001754
		46	5230	5,229.95336	0.00000892
		54	5270	5,269.98513	0.00000282
		62	5310	5,309.91383	0.00001623
		102	5510	5,509.90803	0.00001669
		110	5550	5,549.92659	0.00001323
		134	5670	5,669.90370	0.00001698
		142	5710	5,709.90645	0.00001638
		151	5755	5,754.91669	0.00001448
		159	5795	5,794.94572	0.00000937

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Operation Mode	802.11 ac_VHT80	Test Date	2018.02.09
Temperature	:12 °C	Test By	Anthony
Humidity	:72 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	8.74V	42	5210	5,209.92086	0.00001519
		58	5290	5,289.94896	0.00000965
		106	5530	5,529.91971	0.00001452
		122	5610	5,609.93825	0.00001101
		138	5690	5,689.94077	0.00001041
		155	5775	5,774.96584	0.00000592
	6.46V	42	5210	5,209.90087	0.00001903
		58	5290	5,289.91470	0.00001612
		106	5530	5,529.92106	0.00001427
		122	5610	5,609.91667	0.00001485
		138	5690	5,689.97932	0.00000363
		155	5775	5,774.93596	0.00001109
25 °C	7.6V	42	5210	5,209.98463	0.00000295
		58	5290	5,289.91121	0.00001678
		106	5530	5,529.96284	0.00000672
		122	5610	5,609.92550	0.00001328
		138	5690	5,689.92869	0.00001253
		155	5775	5,774.97561	0.00000422
35 °C	8.74V	42	5210	5,209.96801	0.00000614
		58	5290	5,289.90183	0.00001856
		106	5530	5,529.99835	0.00000030
		122	5610	5,609.90400	0.00001711
		138	5690	5,689.93289	0.00001179
		155	5775	5,774.98791	0.00000209
	6.46V	42	5210	5,209.91586	0.00001615
		58	5290	5,289.98760	0.00000234
		106	5530	5,529.90455	0.00001726
		122	5610	5,609.95871	0.00000736
		138	5690	5,689.90887	0.00001602
		155	5775	5,774.97607	0.00000414

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Operation Mode	802.11 a	Test Date	2018.02.09
Temperature	:12 °C	Test By	Anthony
Humidity	:72 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	8.74V	36	5180	5,179.96327	0.00000709
		44	5220	5,219.93106	0.00001321
		48	5240	5,239.95338	0.00000890
		52	5260	5,259.93753	0.00001188
		60	5300	5,299.92870	0.00001345
		64	5320	5,319.98715	0.00000242
		100	5500	5,499.93198	0.00001237
		116	5580	5,579.97181	0.00000505
		140	5700	5,699.98106	0.00000332
		149	5745	5,744.91454	0.00001488
		157	5785	5,784.98260	0.00000301
		165	5825	5,824.92187	0.00001341
	6.46V	36	5180	5,179.98629	0.00000265
		44	5220	5,219.99884	0.00000022
		48	5240	5,239.91444	0.00001633
		52	5260	5,259.95830	0.00000793
		60	5300	5,299.93694	0.00001190
		64	5320	5,319.94108	0.00001108
		100	5500	5,499.93519	0.00001178
		116	5580	5,579.97021	0.00000534
		140	5700	5,699.94340	0.00000993
		149	5745	5,744.94548	0.00000949
		157	5785	5,784.97699	0.00000398
		165	5825	5,824.95096	0.00000842

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25 °C	7.6V	36	5180	5,179.97918	0.00000402
		44	5220	5,219.92071	0.00001519
		48	5240	5,239.91851	0.00001555
		52	5260	5,259.96278	0.00000708
		60	5300	5,299.98031	0.00000372
		64	5320	5,319.91364	0.00001623
		100	5500	5,499.96693	0.00000601
		116	5580	5,579.90970	0.00001618
		140	5700	5,699.95769	0.00000742
		149	5745	5,744.95250	0.00000827
		157	5785	5,784.99531	0.00000081
		165	5825	5,824.98742	0.00000216
35 °C	8.74V	36	5180	5,179.90143	0.00001903
		44	5220	5,219.93324	0.00001279
		48	5240	5,239.98441	0.00000298
		52	5260	5,259.93127	0.00001307
		60	5300	5,299.99104	0.00000169
		64	5320	5,319.94854	0.00000967
		100	5500	5,499.92650	0.00001336
		116	5580	5,579.97457	0.00000456
		140	5700	5,699.93864	0.00001076
		149	5745	5,744.96174	0.00000666
		157	5785	5,784.90855	0.00001581
		165	5825	5,824.98675	0.00000227
	6.46V	36	5180	5,179.95368	0.00000894
		44	5220	5,219.95741	0.00000816
		48	5240	5,239.98270	0.00000330
		52	5260	5,259.93355	0.00001263
		60	5300	5,299.98086	0.00000361
		64	5320	5,319.95077	0.00000925
		100	5500	5,499.97787	0.00000402
		116	5580	5,579.91459	0.00001531
		140	5700	5,699.92512	0.00001314
		149	5745	5,744.95939	0.00000707
		157	5785	5,784.99608	0.00000068
		165	5825	5,824.94651	0.00000918

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Operation Mode	802.11 n_HT40	Test Date	2018.02.09
Temperature	:12 °C	Test By	Anthony
Humidity	:72 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	8.74V	38	5190	5,189.99631	0.00000071
		46	5230	5,229.98780	0.00000233
		54	5270	5,269.91293	0.00001652
		62	5310	5,309.94778	0.00000983
		102	5510	5,509.92889	0.00001291
		110	5550	5,549.94856	0.00000927
		134	5670	5,669.95811	0.00000739
		142	5710	5,709.98583	0.00000248
		151	5755	5,754.92881	0.00001237
		159	5795	5,794.95997	0.00000691
	6.46V	38	5190	5,189.98462	0.00000296
		46	5230	5,229.97342	0.00000508
		54	5270	5,269.97937	0.00000391
		62	5310	5,309.94344	0.00001065
		102	5510	5,509.99247	0.00000137
		110	5550	5,549.93125	0.00001239
		134	5670	5,669.92172	0.00001381
		142	5710	5,709.93756	0.00001094
		151	5755	5,754.90666	0.00001622
		159	5795	5,794.96780	0.00000556

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25 °C	7.6V	38	5190	5,189.95276	0.00000910
		46	5230	5,229.97387	0.00000500
		54	5270	5,269.92126	0.00001494
		62	5310	5,309.91362	0.00001627
		102	5510	5,509.91875	0.00001475
		110	5550	5,549.92421	0.00001366
		134	5670	5,669.98149	0.00000326
		142	5710	5,709.92884	0.00001246
		151	5755	5,754.98622	0.00000239
		159	5795	5,794.95292	0.00000812
35 °C	8.74V	38	5190	5,189.97766	0.00000430
		46	5230	5,229.94107	0.00001127
		54	5270	5,269.99091	0.00000172
		62	5310	5,309.92465	0.00001419
		102	5510	5,509.95622	0.00000795
		110	5550	5,549.96534	0.00000625
		134	5670	5,669.98998	0.00000177
		142	5710	5,709.96144	0.00000675
		151	5755	5,754.92389	0.00001323
		159	5795	5,794.94126	0.00001014
	6.46V	38	5190	5,189.99901	0.00000019
		46	5230	5,229.98977	0.00000196
		54	5270	5,269.96219	0.00000717
		62	5310	5,309.91960	0.00001514
		102	5510	5,509.95082	0.00000893
		110	5550	5,549.92133	0.00001417
		134	5670	5,669.95582	0.00000779
		142	5710	5,709.98544	0.00000255
		151	5755	5,754.94467	0.00000961
		159	5795	5,794.91082	0.00001539

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Operation Mode	802.11 ac_VHT80	Test Date	2018.02.09
Temperature	:12 °C	Test By	Anthony
Humidity	:72 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	8.74V	42	5210	5,209.91378	0.00001655
		58	5290	5,289.99778	0.00000042
		106	5530	5,529.94903	0.00000922
		122	5610	5,609.99343	0.00000117
		138	5690	5,689.94793	0.00000915
		155	5775	5,774.94993	0.00000867
	6.46V	42	5210	5,209.93152	0.00001314
		58	5290	5,289.97000	0.00000567
		106	5530	5,529.90892	0.00001647
		122	5610	5,609.98230	0.00000316
		138	5690	5,689.98916	0.00000191
		155	5775	5,774.97856	0.00000371
25 °C	7.6V	42	5210	5,209.95595	0.00000845
		58	5290	5,289.93573	0.00001215
		106	5530	5,529.96956	0.00000550
		122	5610	5,609.96609	0.00000604
		138	5690	5,689.99384	0.00000108
		155	5775	5,774.97114	0.00000500
35 °C	8.74V	42	5210	5,209.95053	0.00000950
		58	5290	5,289.96283	0.00000703
		106	5530	5,529.90484	0.00001721
		122	5610	5,609.97475	0.00000450
		138	5690	5,689.91295	0.00001530
		155	5775	5,774.99579	0.00000073
	6.46V	42	5210	5,209.91552	0.00001621
		58	5290	5,289.91865	0.00001538
		106	5530	5,529.91917	0.00001462
		122	5610	5,609.97982	0.00000360
		138	5690	5,689.99642	0.00000063
		155	5775	5,774.99563	0.00000076

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Operation Mode	802.11 a	Test Date	2018.02.09
Temperature	:12 °C	Test By	Anthony
Humidity	:72 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	8.74V	36	5180	5,179.93976	0.00001163
		44	5220	5,219.98279	0.00000330
		48	5240	5,239.98280	0.00000328
		52	5260	5,259.92743	0.00001380
		60	5300	5,299.94528	0.00001032
		64	5320	5,319.94379	0.00001057
		100	5500	5,499.96348	0.00000664
		116	5580	5,579.97657	0.00000420
		140	5700	5,699.94392	0.00000984
		149	5745	5,744.95232	0.00000830
		157	5785	5,784.99894	0.00000018
		165	5825	5,824.94313	0.00000976
	6.46V	36	5180	5,179.93094	0.00001333
		44	5220	5,219.90089	0.00001899
		48	5240	5,239.99779	0.00000042
		52	5260	5,259.93902	0.00001159
		60	5300	5,299.95831	0.00000787
		64	5320	5,319.97374	0.00000494
		100	5500	5,499.99536	0.00000084
		116	5580	5,579.93480	0.00001168
		140	5700	5,699.90067	0.00001743
		149	5745	5,744.90083	0.00001726
		157	5785	5,784.91385	0.00001489
		165	5825	5,824.93739	0.00001075

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No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

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25 °C	7.6V	36	5180	5,179.97696	0.00000445
		44	5220	5,219.90034	0.00001909
		48	5240	5,239.96098	0.00000745
		52	5260	5,259.92444	0.00001437
		60	5300	5,299.97267	0.00000516
		64	5320	5,319.98066	0.00000364
		100	5500	5,499.92729	0.00001322
		116	5580	5,579.98133	0.00000335
		140	5700	5,699.91562	0.00001480
		149	5745	5,744.95986	0.00000699
		157	5785	5,784.90766	0.00001596
		165	5825	5,824.94524	0.00000940

35 °C	8.74V	36	5180	5,179.94785	0.00001007
		44	5220	5,219.97766	0.00000428
		48	5240	5,239.90603	0.00001793
		52	5260	5,259.95908	0.00000778
		60	5300	5,299.90162	0.00001856
		64	5320	5,319.90484	0.00001789
		100	5500	5,499.97013	0.00000543
		116	5580	5,579.93750	0.00001120
		140	5700	5,699.93036	0.00001222
		149	5745	5,744.92476	0.00001310
		157	5785	5,784.94718	0.00000913
		165	5825	5,824.94040	0.00001023
	6.46V	36	5180	5,179.92324	0.00001482
		44	5220	5,219.90729	0.00001776
		48	5240	5,239.98961	0.00000198
		52	5260	5,259.95407	0.00000873
		60	5300	5,299.92697	0.00001378
		64	5320	5,319.98843	0.00000217
		100	5500	5,499.96640	0.00000611
		116	5580	5,579.94642	0.00000960
		140	5700	5,699.93294	0.00001176
		149	5745	5,744.95893	0.00000715
		157	5785	5,784.99364	0.00000110
		165	5825	5,824.96732	0.00000561

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Operation Mode	802.11 n_HT40	Test Date	2018.02.09
Temperature	:12 °C	Test By	Anthony
Humidity	:72 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	8.74V	38	5190	5,189.98615	0.00000267
		46	5230	5,229.95393	0.00000881
		54	5270	5,269.94341	0.00001074
		62	5310	5,309.96508	0.00000658
		102	5510	5,509.94586	0.00000983
		110	5550	5,549.96346	0.00000658
		134	5670	5,669.97466	0.00000447
		142	5710	5,709.95463	0.00000795
		151	5755	5,754.91521	0.00001473
		159	5795	5,794.91250	0.00001510
	6.46V	38	5190	5,189.90695	0.00001793
		46	5230	5,229.96545	0.00000661
		54	5270	5,269.95160	0.00000918
		62	5310	5,309.91712	0.00001561
		102	5510	5,509.91531	0.00001537
		110	5550	5,549.94460	0.00000998
		134	5670	5,669.95729	0.00000753
		142	5710	5,709.92488	0.00001316
		151	5755	5,754.95203	0.00000834
		159	5795	5,794.98306	0.00000292

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25 °C	7.6V	38	5190	5,189.90539	0.00001823
		46	5230	5,229.93719	0.00001201
		54	5270	5,269.96798	0.00000608
		62	5310	5,309.96859	0.00000592
		102	5510	5,509.91197	0.00001598
		110	5550	5,549.94836	0.00000930
		134	5670	5,669.95707	0.00000757
		142	5710	5,709.98669	0.00000233
		151	5755	5,754.99873	0.00000022
		159	5795	5,794.92523	0.00001290
35 °C	8.74V	38	5190	5,189.92590	0.00001428
		46	5230	5,229.95835	0.00000796
		54	5270	5,269.97044	0.00000561
		62	5310	5,309.95915	0.00000769
		102	5510	5,509.93527	0.00001175
		110	5550	5,549.99068	0.00000168
		134	5670	5,669.92087	0.00001396
		142	5710	5,709.99194	0.00000141
		151	5755	5,754.97803	0.00000382
		159	5795	5,794.97181	0.00000486
	6.46V	38	5190	5,189.98319	0.00000324
		46	5230	5,229.98112	0.00000361
		54	5270	5,269.90239	0.00001852
		62	5310	5,309.98351	0.00000311
		102	5510	5,509.98358	0.00000298
		110	5550	5,549.98436	0.00000282
		134	5670	5,669.93983	0.00001061
		142	5710	5,709.98652	0.00000236
		151	5755	5,754.96681	0.00000577
		159	5795	5,794.93570	0.00001110

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Operation Mode	802.11 ac_VHT80	Test Date	2018.02.09
Temperature	:12 °C	Test By	Anthony
Humidity	:72 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	8.74V	42	5210	5,209.96680	0.00000637
		58	5290	5,289.95900	0.00000775
		106	5530	5,529.96870	0.00000566
		122	5610	5,609.96588	0.00000608
		138	5690	5,689.93861	0.00001079
		155	5775	5,774.92518	0.00001296
	6.46V	42	5210	5,209.93438	0.00001260
		58	5290	5,289.95299	0.00000889
		106	5530	5,529.90244	0.00001764
		122	5610	5,609.97593	0.00000429
		138	5690	5,689.91844	0.00001433
		155	5775	5,774.98667	0.00000231
25 °C	7.6V	42	5210	5,209.99628	0.00000071
		58	5290	5,289.95762	0.00000801
		106	5530	5,529.92259	0.00001400
		122	5610	5,609.98631	0.00000244
		138	5690	5,689.95817	0.00000735
		155	5775	5,774.93709	0.00001089
35 °C	8.74V	42	5210	5,209.99567	0.00000083
		58	5290	5,289.98340	0.00000314
		106	5530	5,529.95186	0.00000871
		122	5610	5,609.97486	0.00000448
		138	5690	5,689.95162	0.00000850
		155	5775	5,774.98299	0.00000295
	6.46V	42	5210	5,209.96333	0.00000704
		58	5290	5,289.93309	0.00001265
		106	5530	5,529.99493	0.00000092
		122	5610	5,609.91033	0.00001598
		138	5690	5,689.99435	0.00000099
		155	5775	5,774.96096	0.00000676

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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.

~ End of Report ~

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