ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E REQUIREMENT

OF

Applicant:	Innolux Corporation No. 160, Kesyue Rd. Jhunan Science Park, Miaoli County 350, Taiwan R.O.C.
Product Name:	Intel Dual Band Wireless-AC 8265
Brand Name:	N/A
Model No.:	8265NGW
Model Difference:	N/A
FCC ID:	2AQPW000001
Report Number:	E2/2018/A0015
FCC Rule Part:	§15.407, Cat: NII
Issue Date:	Feb. 11, 2019
Date of Test:	Oct. 11, 2018 ~ Oct. 25, 2018
Date of EUT Received:	Oct. 11, 2018

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory
The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10: 2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.
The test results of this report relate only to the tested sample identified in this report.

Tested By: Aken Huang

Aken Huang / Engineer

Approved By: Jay. Lin

Jay Lin / Asst. Supervisor

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Revision History

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
E2/2018/A0015	Rev.00	Initial creation of document	All	Jan. 31, 2019	Elle Chang
E2/2018/A0015	Rev.01	Revised FCC designation number	Page 6	Feb. 11, 2019	Elle Chang

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1 GENERAL INFORMATION

1.1 Product Description

General:

Product Name of Host:	Flat Panel Detector	
Brand Name:	N/A	
Model No. of Host:	Yushan V14C, Yushan V14G, Yushan F14C, Yushan F14G	
Model Difference:	Yushan V14C, Yushan V14G : Difference in Scintillator Yushan F14C, Yushan F14G : For marketing purpose	
Hardware Version:	N/A	
Software Version:	N/A	
Model No. of BT/WLAN Module:	8265NGW	
Module FCC ID:	2AQPW000001	
Scope:	The test report covers the radiated emissions requirements of the standards referenced in the report to allow system level approval of the module in this specific host.	
Class II Permissive change:	Intel Wireless-AC 8265 INSTALLED IN Flat Panel Detector	
Power Supply:	11.1 / 11.4Vdc from Rechargeable Li-polymer Battery or 24Vdc from AC/DC Adapter	
	Battery:	Model no.: X221AW2-B0G; Supplier: N/A
	Adapter:	Model no.: MDS-060AAS24 B; Supplier: DELTA ELECTRONICS. INC.

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WLAN 5GHz:

Wi-Fi 802.11	Frequency Range	Channels	Modulation Technology
a	5150~5250	4	OFDM
	5250~5350	4	
	5470~5725	12	
	5725-5850	5	
n_HT ac_VHT 20M	5150~5250	4	OFDM
	5250~5350	4	
	5470~5725	11	
	5725-5850	5	
n_HT ac_VHT 40M	5150~5250	2	OFDM
	5250~5350	2	
	5470~5725	5	
	5725-5850	2	
ac_VHT 80M	5150~5250	1	OFDM
	5250~5350	1	
	5470~5725	2	
	5725~5850	1	
Modulation type		64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 802.11ac only	
Transition Rate:		802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 144.4Mbps 802.11 n_40MHz: 13.5 – 300.0Mbps 802.11 ac_20MHz: 6.5 –173.3Mbps 802.11 ac_40MHz: 13.5 –400.0Mbps 802.11 ac_80MHz: 29.3 – 866.7Mbps	

Vendor	Ant. Type	Main / Aux	Part No.	Freq.(MHz)	Peak Gain (dBi)
Taoglas	Dipole	Main	N/A	5150~5250	-0.70
				5250~5350	-0.70
				5470~5725	-0.70
				5725~5850	-0.70
	Dipole	Aux	N/A	5150~5250	-2.50
				5250~5350	-2.50
				5470~5725	-2.50
				5725~5850	-2.50

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1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules V02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10:2013

Note:

All test items have been performed and record as per the above standards.

1.3 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333 (TAF code 0513)

FCC Registration Numbers are: 735305 / TW0002

1.4 Special Accessories

There are no special accessories used while test was conducted.

1.5 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.1.1 Conducted Emissions

The EUT is a placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.1.2 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.1.3 Radiated Emissions

The EUT is a placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.

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2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission Configuration

Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A

3 SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.205 §15.209 §15.407(b)	Undesirable Radiated Emissions	Compliant
§15.203 §15.407(a)	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operated in U-NII Bands

Operated band in 5150 MHz ~5250 MHz:

802.11a / n HT20 Mode, 802.11ac VHT20 Mode	
Channel	Frequency
36	5180
40	5200
44	5220
48	5240

802.11 n HT40 Mode, 802.11ac VHT40 Mode	
channel	Frequency
38	5190
46	5230

802.11ac VHT80 Mode	
channel	Frequency
42	5210

Operated band in 5250 MHz ~5350 MHz:

802.11a / n HT20 Mode, 802.11ac VHT20 Mode	
channel	Frequency
52	5260
56	5280
60	5300
64	5320

802.11 n HT40 Mode, 802.11ac VHT40 Mode	
channel	Frequency
54	5270
62	5310

802.11ac VHT80 Mode	
Channel	Frequency
58	5290

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Operated band in 5470 MHz ~5725 MHz:

802.11a / n HT20 Mode, 802.11ac VHT20 Mode	
Channel	Frequency
100	5500
104	5520
108	5540
112	5560
116	5580
120	5600
124	5620
128	5640
132	5660
136	5680
140	5700

802.11 n HT40 Mode, 802.11ac VHT40 Mode	
channel	Frequency
102	5510
110	5550
118	5590
126	5630
134	5670

802.11ac VHT80 Mode	
channel	Frequency
106	5530
122	5610

Operated band in 5745 MHz ~5850 MHz:

802.11a / n HT20 Mode, 802.11ac VHT20 Mode	
Channel	Frequency
149	5745
153	5765
157	5785
161	5805
165	5825

802.11 n HT40 Mode, 802.11ac VHT40 Mode	
channel	Frequency
151	5755
159	5795

802.11ac VHT80 Mode	
channel	Frequency
155	5775

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4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case.

RADIATED EMISSION TEST:

MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
RADIATED EMISSION TEST (BELOW 1 GHz)						
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	2TX
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	2TX
802.11ac_VHT80	5290	58	58	OFDM	MCS0	MIMO
802.11a	5500~5720	100 to 140	100,116,140	OFDM	6	2TX
802.11ac_VHT80	5530~5690	106 to 138	106,122,138	OFDM	MCS0	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	2TX
802.11ac_VHT80	5775	155	155	OFDM	MCS0	MIMO
RADIATED EMISSION TEST (ABOVE 1 GHz)						
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	2TX
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	2TX
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS8	MIMO
802.11ac_VHT80	5290	58	58	OFDM	MCS0	MIMO
802.11a	5500~5720	100 to 144	100,116,140	OFDM	6	2TX
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5510~5710	102 to 142	102,110,134	OFDM	MCS8	MIMO
802.11ac_VHT80	5530~5610	106 to 122	106,122	OFDM	MCS0	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	2TX
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS8	MIMO
802.11ac_VHT80	5775	155	155	OFDM	MCS0	MIMO

Note: The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for 802.11a/n/ac WLAN Transmitter for channel Low, Mid and High, the worst case E1 position was reported

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
26dB & 6dB Emission Bandwidth	+/- 123.36 Hz
The Maximum Output Power Measurement	+/- 0.96 dB
Peak Power Spectral Density Measurement	+/- 1.67 dB
Frequency Stability	+/- 123.36 Hz
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC=+/- 0.2%

Radiated Spurious Emission:

Measurement uncertainty (Polarization : **Vertical**)	9kHz-30MHz: +/-2.87dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : **Horizontal**)	9kHz-30MHz: +/-2.87dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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6 UNDESIRABLE RADIATED EMISSION MEASUREMENT

11.1 Standard Applicable

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

1. For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

2. For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

APPLICABLE TO	LIMIT	
FCC KDB 789033 D02 General UNII Test Procedures New Rules	FIELD STRENGTH AT 3m	
	PK: 74 (dBμV/m)	AV 54 (dBμV/m)
APPLICABLE TO	**EIRP LIMIT**	**FIELD STRENGTH AT 3m**
15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.3 (dBμV/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)(i)	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(dBμV/m) *1 PK:105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK:122.2 (dBμV/m) *4
*1 beyond 75 MHz or more above of the bandedge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

EIRP = ((E*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**
Broadband Antenna	TESEQ	CBL 6112D	35243	2017/11/10	2018/11/09
Horn Antenna	Schwarzbeck	BBHA9120D	1187	2018/01/04	2019/01/03
Horn Antenna	SCHWAZBECK	BBHA9170	184	2017/12/12	2018/12/11
Loop Antenna	ETS.LINDGREN	6502	148045	2018/04/19	2019/04/18
EMI Test Receiver	R&S	ESU 40	100363	2018/04/11	2019/04/10
Pre-Amplifier	EMC Instruments	EMC330	980096	2017/12/26	2018/12/25
Pre-Amplifier	EMC Instruments	EMC0011830	980199	2017/12/26	2018/12/25
Pre-Amplifier	EMC Instruments	EMC184045B	980135	2017/10/27	2018/10/26
Attenuator	Marvelous	WATT-218FS-10	RF246	2017/12/26	2018/12/25
Band Rejection Filter	Micro-Tronics	G015	RF100	2017/12/26	2018/12/25
Band Rejection Filter	Micro-Tronics	G016	RF101	2017/12/26	2018/12/25
Band Rejection Filter	Micro-Tronics	G021	RF102	2017/12/26	2018/12/25
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	2017/12/26	2018/12/25
Coaxial Cable	Huber Suhner	EMC106-SM-SM-7200	150703	2017/12/26	2018/12/25
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	2017/12/26	2018/12/25
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	2017/12/26	2018/12/25

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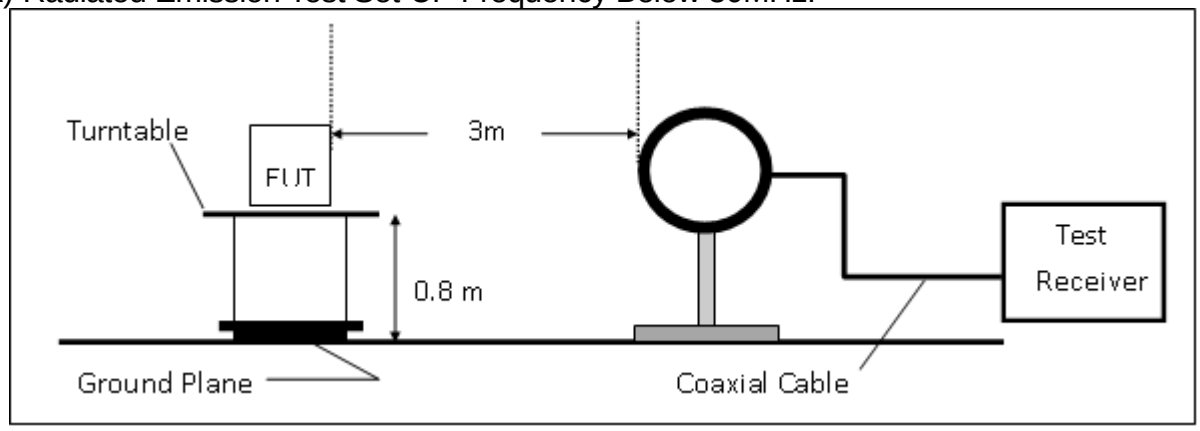
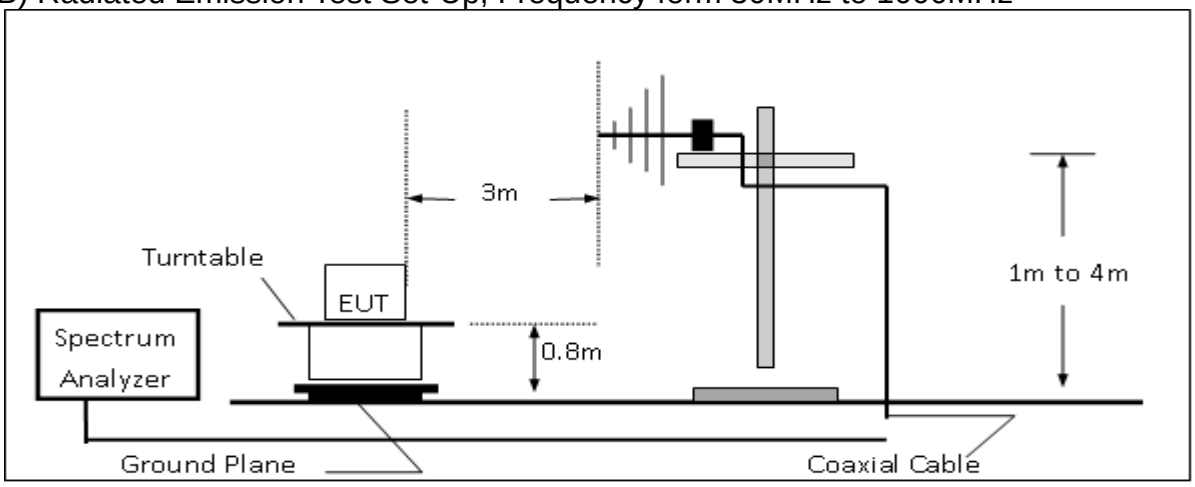
11.3 Test SET-UP

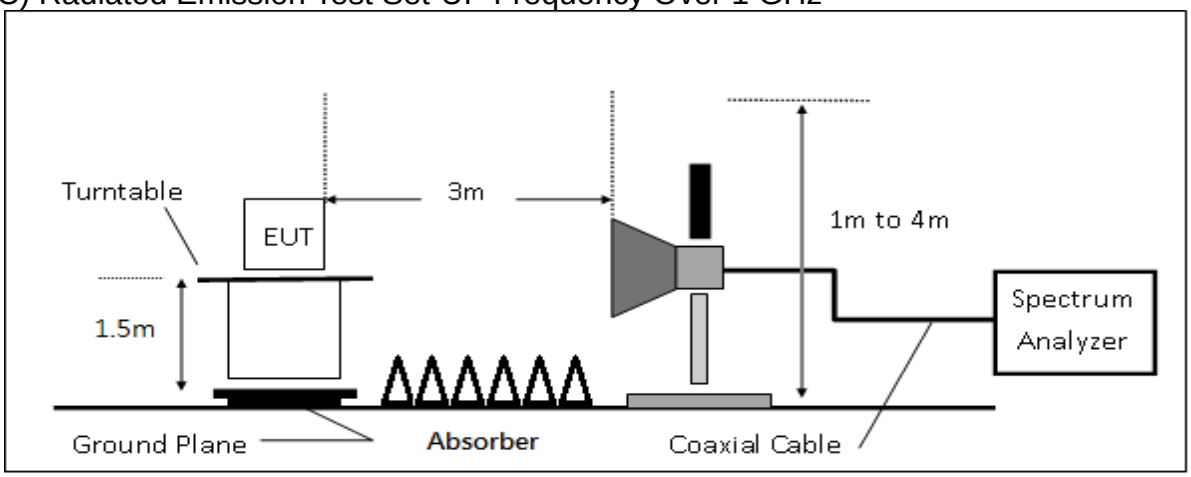
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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



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



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11.4 Measurement Procedure

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

11.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)
Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

11.6 Test Results of Radiated Spurious Emissions form 9 KHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

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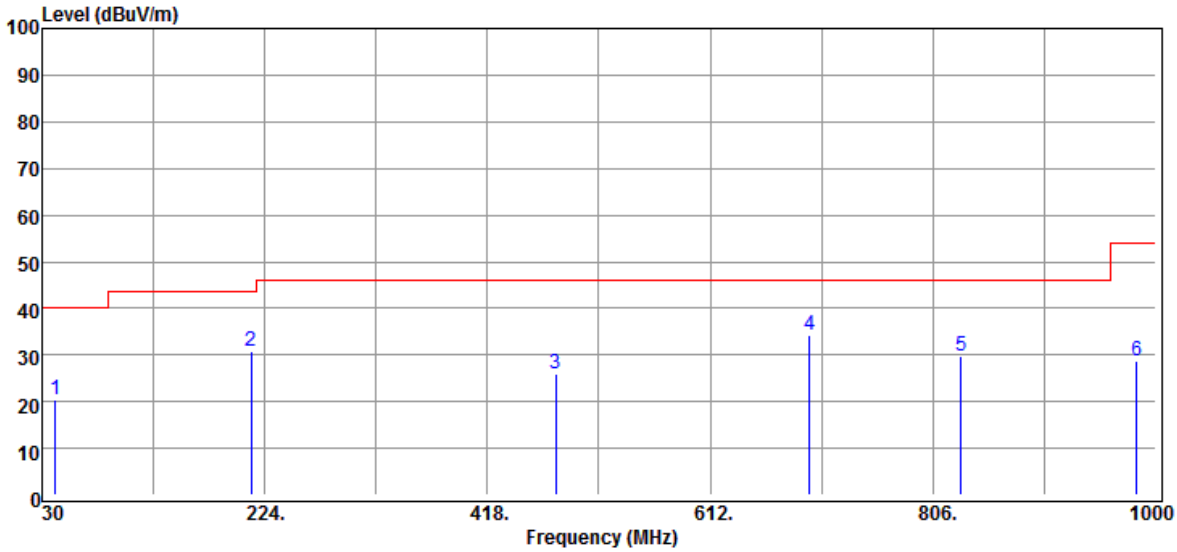
11.7 Measurement Result

Radiated Spurious Emission Measurement Result
Below 1GHz Worst-Case Data:

Operation Mode	:802.11a / Band 1	Test Date	:2018-10-25
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5200 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
41.64	Peak	30.43	-9.94	20.49	40.00	-19.51
212.36	Peak	43.58	-12.64	30.94	43.50	-12.56
477.17	Peak	30.74	-4.92	25.82	46.00	-20.18
698.33	Peak	35.76	-1.60	34.16	46.00	-11.84
830.25	Peak	29.29	0.31	29.60	46.00	-16.40
983.51	Peak	25.85	2.89	28.74	54.00	-25.26

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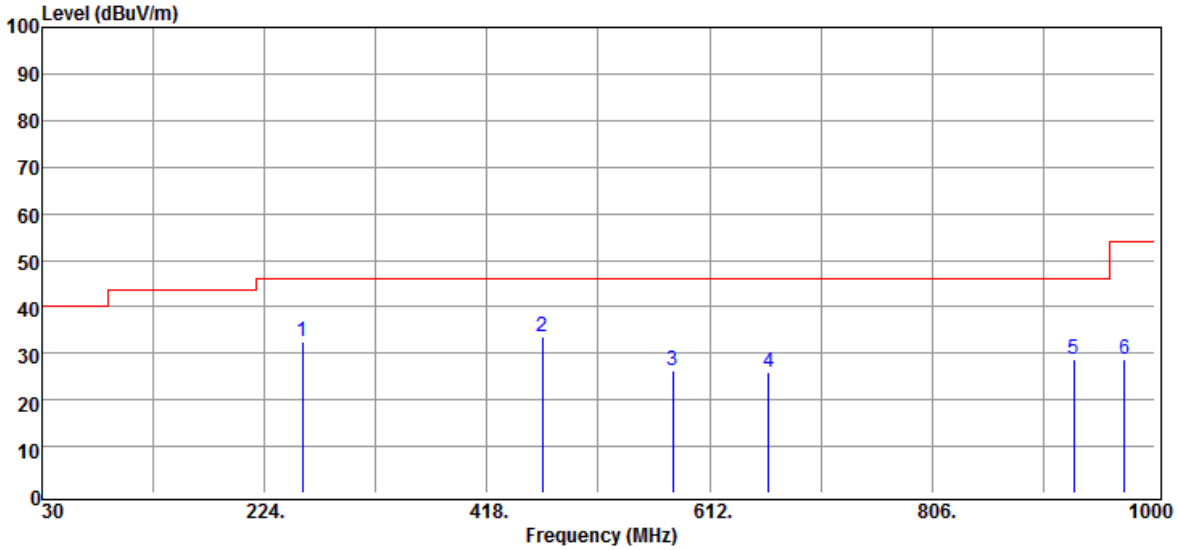
Operation Mode	:802.11a / Band 1	Test Date	:2018-10-25
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5200 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
256.98	Peak	42.79	-10.20	32.59	46.00	-13.41
466.50	Peak	38.44	-4.95	33.49	46.00	-12.51
579.99	Peak	29.62	-3.20	26.42	46.00	-19.58
663.41	Peak	28.01	-2.14	25.87	46.00	-20.13
929.19	Peak	26.97	1.69	28.66	46.00	-17.34
973.81	Peak	25.97	2.65	28.62	54.00	-25.38

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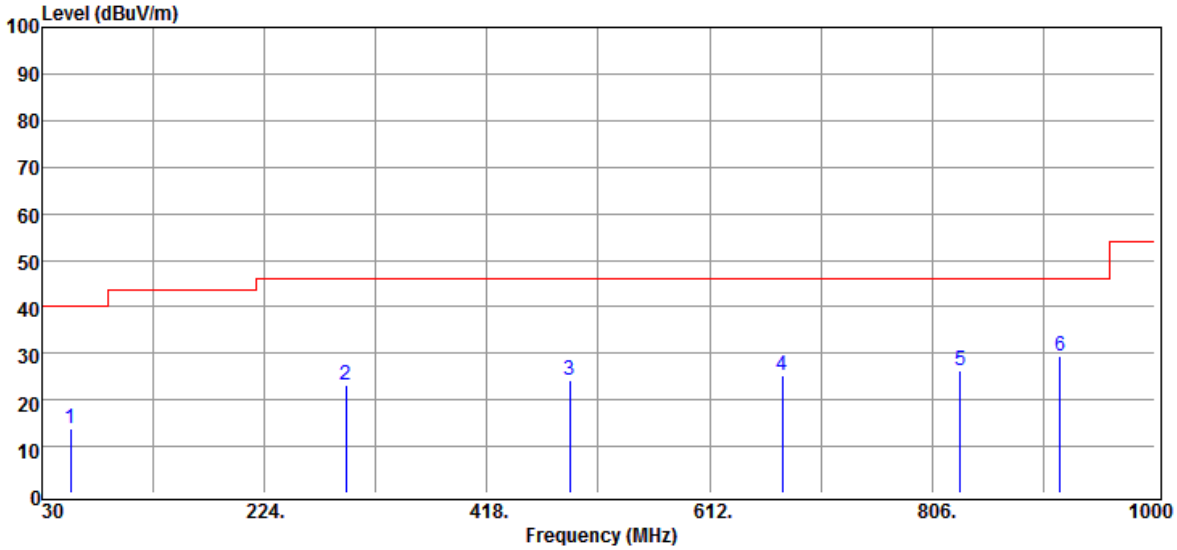
Operation Mode	:802.11a / Band 2	Test Date	:2018-10-25
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5280 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
55.22	Peak	31.91	-18.01	13.90	40.00	-26.10
294.81	Peak	33.24	-10.02	23.22	46.00	-22.78
489.78	Peak	28.74	-4.42	24.32	46.00	-21.68
675.05	Peak	27.09	-1.96	25.13	46.00	-20.87
830.25	Peak	26.06	0.31	26.37	46.00	-19.63
917.55	Peak	27.87	1.49	29.36	46.00	-16.64

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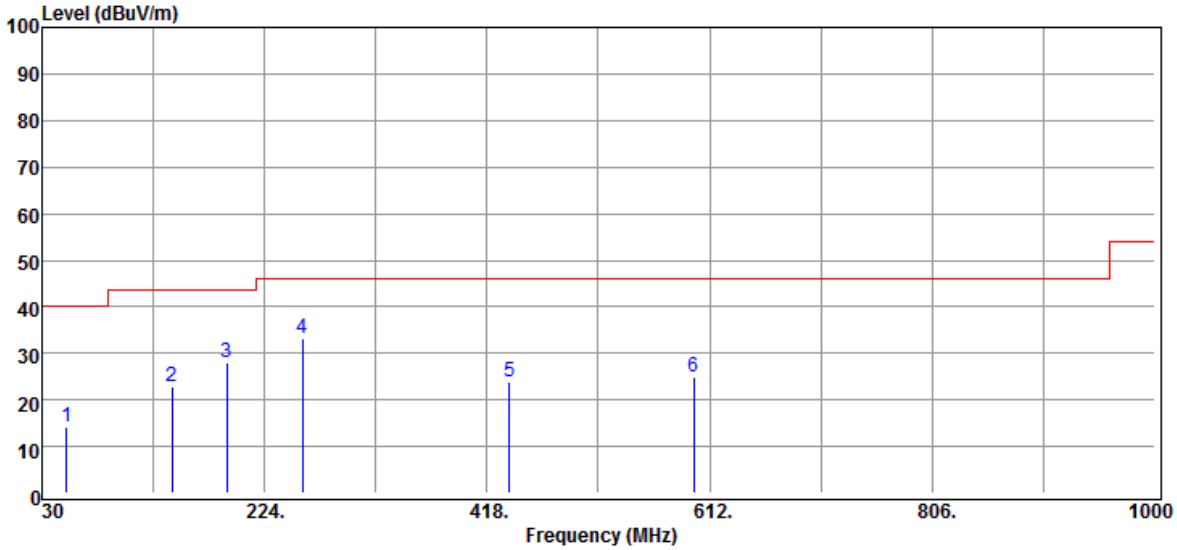
Operation Mode	:802.11a / Band 2	Test Date	:2018-10-25
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5280 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
51.34	Peak	30.58	-16.48	14.10	40.00	-25.90
143.49	Peak	35.12	-12.18	22.94	43.50	-20.56
191.02	Peak	41.94	-13.79	28.15	43.50	-15.35
256.98	Peak	43.43	-10.20	33.23	46.00	-12.77
437.40	Peak	29.73	-5.80	23.93	46.00	-22.07
598.42	Peak	28.14	-3.22	24.92	46.00	-21.08

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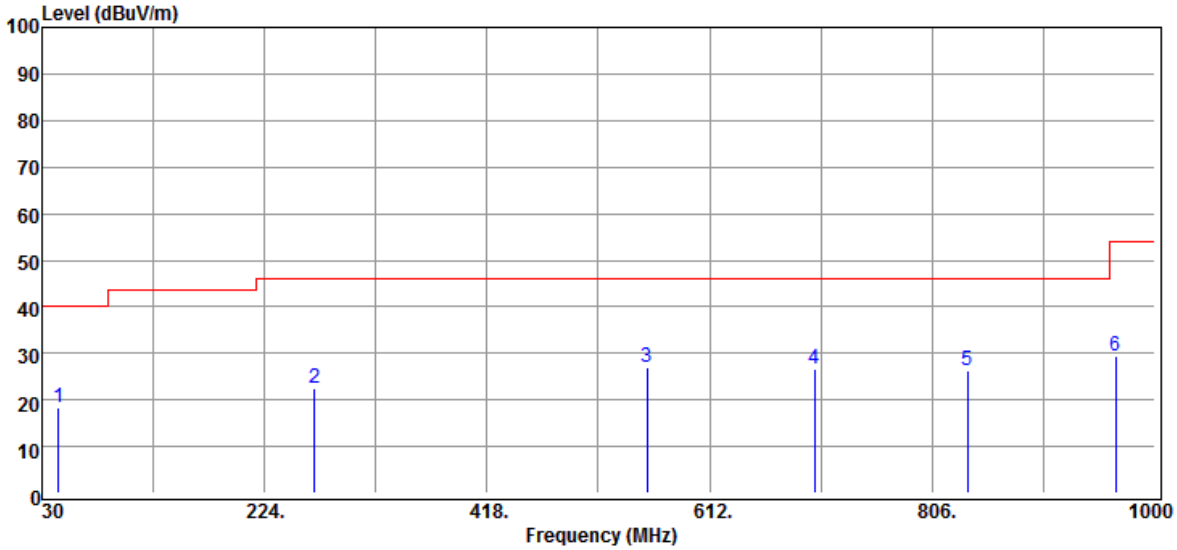
Operation Mode	:802.11a / Band 3	Test Date	:2018-10-25
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5600 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
44.55	Peak	30.39	-12.15	18.24	40.00	-21.76
267.65	Peak	32.63	-10.25	22.38	46.00	-23.62
557.68	Peak	30.26	-3.16	27.10	46.00	-18.90
703.18	Peak	28.31	-1.56	26.75	46.00	-19.25
837.04	Peak	25.92	0.46	26.38	46.00	-19.62
966.05	Peak	27.10	2.47	29.57	54.00	-24.43

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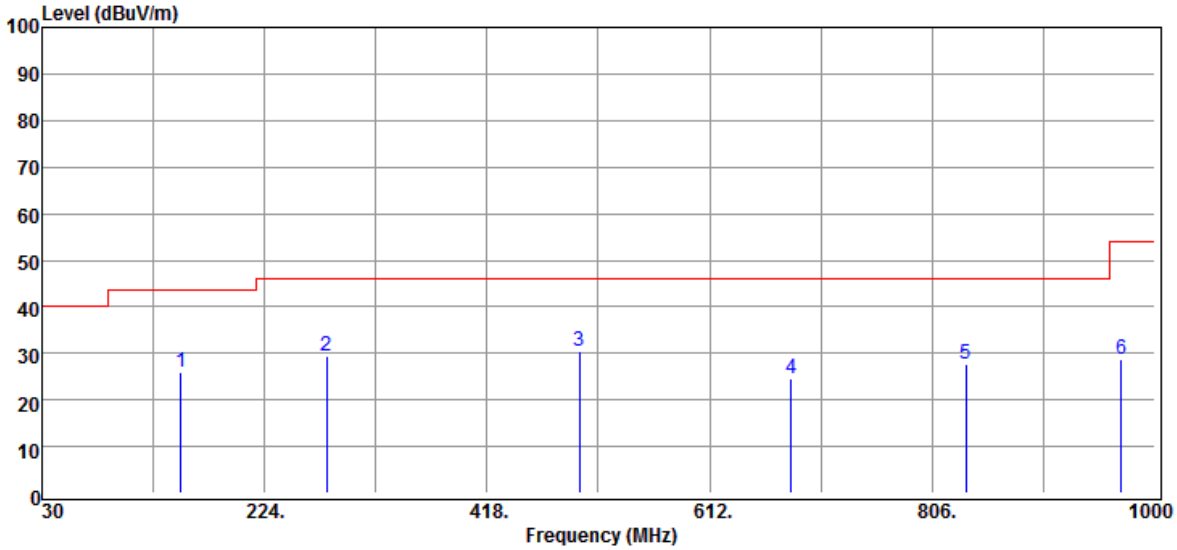
Operation Mode	:802.11a / Band 3	Test Date	:2018-10-25
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5600 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
151.25	Peak	38.72	-12.78	25.94	43.50	-17.56
278.32	Peak	39.62	-10.21	29.41	46.00	-16.59
498.51	Peak	34.83	-4.24	30.59	46.00	-15.41
682.81	Peak	26.48	-1.83	24.65	46.00	-21.35
835.10	Peak	27.42	0.40	27.82	46.00	-18.18
970.90	Peak	26.29	2.57	28.86	54.00	-25.14

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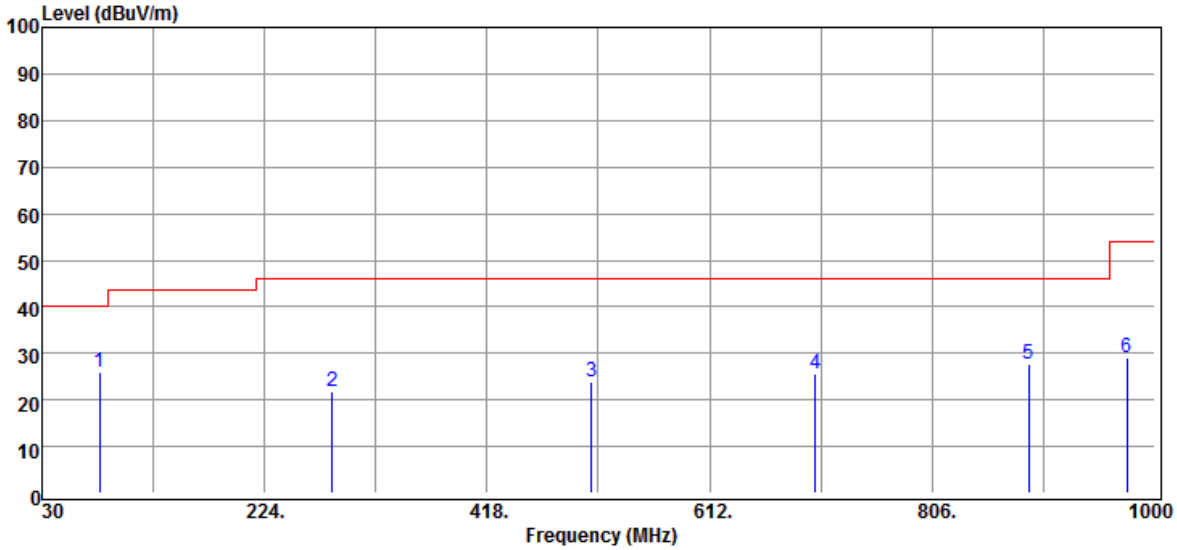
Operation Mode	:802.11a / Band 4	Test Date	:2018-10-25
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5785 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
80.44	Peak	42.72	-16.84	25.88	40.00	-14.12
283.17	Peak	32.04	-10.16	21.88	46.00	-24.12
509.18	Peak	27.93	-4.01	23.92	46.00	-22.08
704.15	Peak	27.12	-1.57	25.55	46.00	-20.45
890.39	Peak	26.70	1.09	27.79	46.00	-18.21
975.75	Peak	26.21	2.70	28.91	54.00	-25.09

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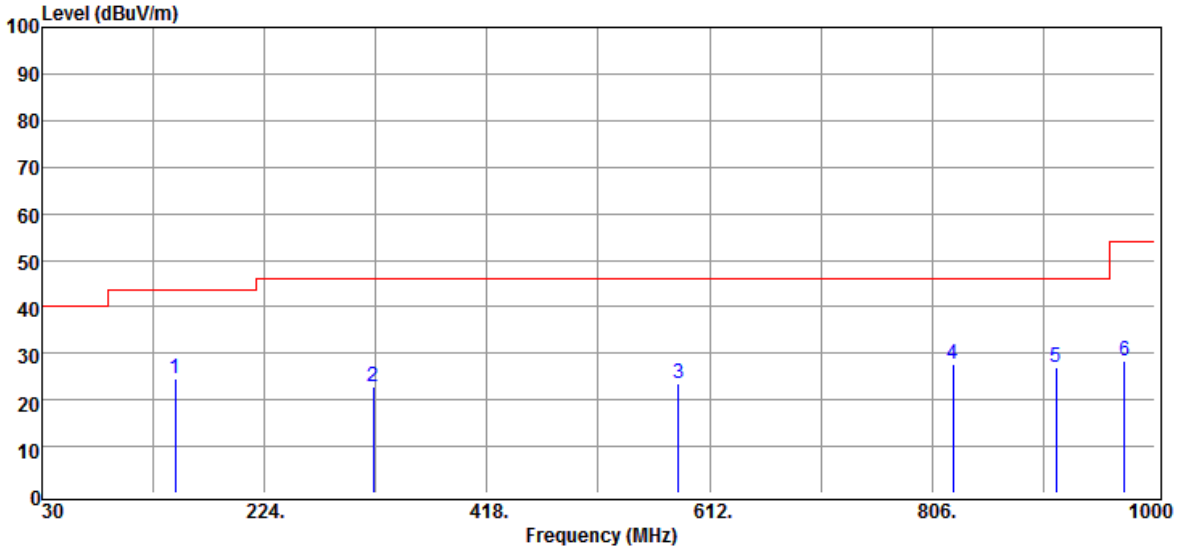
Operation Mode	:802.11a / Band 4	Test Date	:2018-10-25
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5785 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
146.40	Peak	36.86	-12.41	24.45	43.50	-19.05
319.06	Peak	31.97	-9.21	22.76	46.00	-23.24
584.84	Peak	26.64	-3.20	23.44	46.00	-22.56
824.43	Peak	27.37	0.19	27.56	46.00	-18.44
913.67	Peak	25.51	1.42	26.93	46.00	-19.07
973.81	Peak	25.60	2.65	28.25	54.00	-25.75

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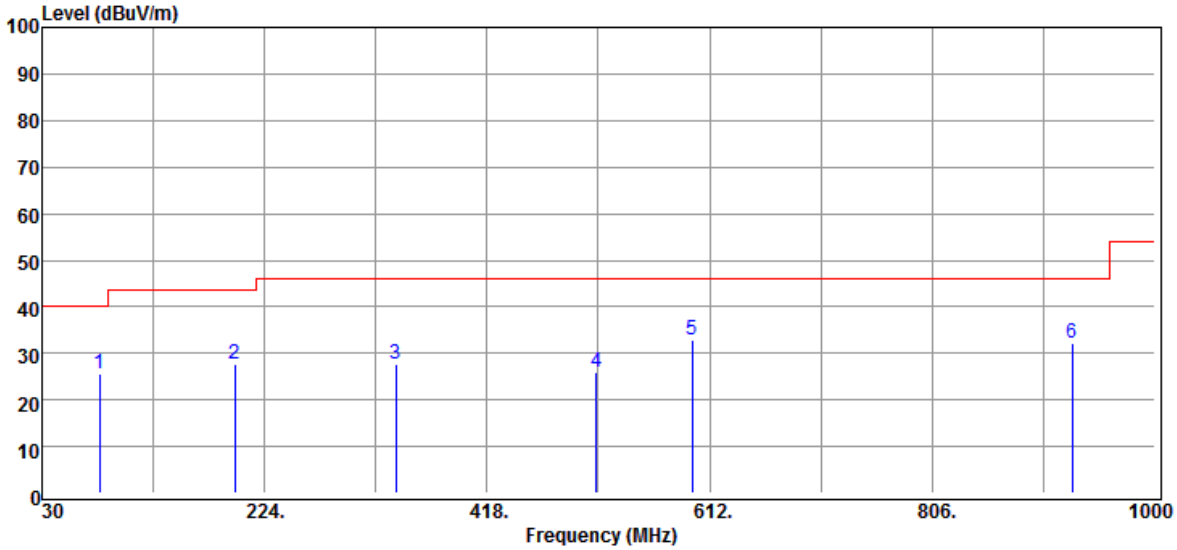
Operation Mode	:802.11ac80 / Band 1	Test Date	:2018-10-25
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5210 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
80.44	Peak	42.29	-16.84	25.45	40.00	-14.55
197.81	Peak	40.73	-13.16	27.57	43.50	-15.93
338.46	Peak	35.98	-8.34	27.64	46.00	-18.36
513.06	Peak	29.87	-3.92	25.95	46.00	-20.05
596.48	Peak	35.99	-3.21	32.78	46.00	-13.22
928.22	Peak	30.48	1.68	32.16	46.00	-13.84

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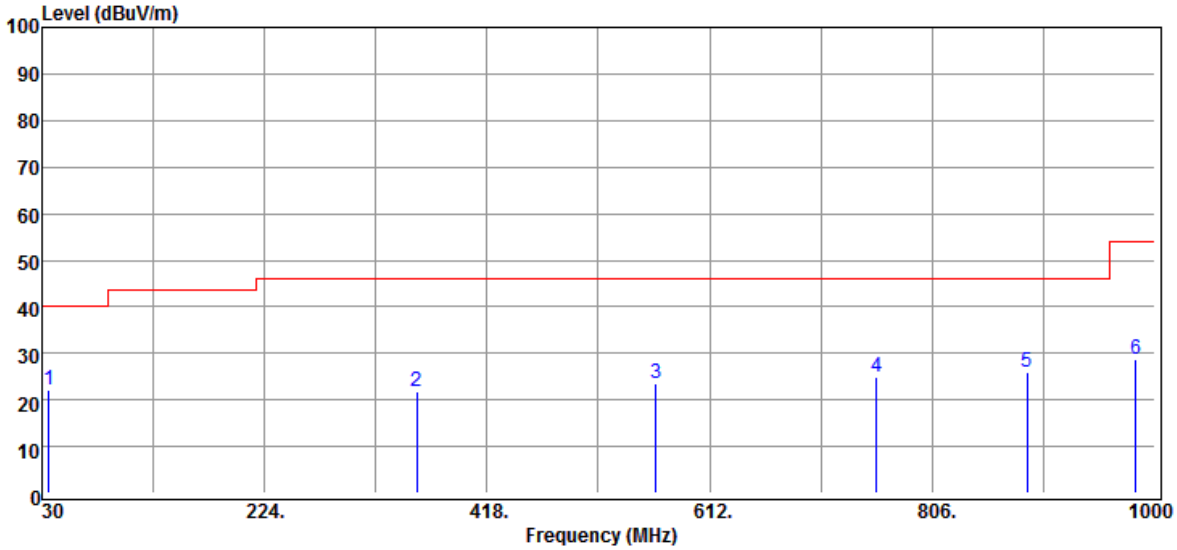
Operation Mode	:802.11ac80 / Band 1	Test Date	:2018-10-25
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5210 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
35.82	Peak	28.96	-6.70	22.26	40.00	-17.74
356.89	Peak	29.65	-7.73	21.92	46.00	-24.08
565.44	Peak	26.83	-3.17	23.66	46.00	-22.34
757.50	Peak	26.16	-1.21	24.95	46.00	-21.05
888.45	Peak	24.88	1.08	25.96	46.00	-20.04
983.51	Peak	25.83	2.89	28.72	54.00	-25.28

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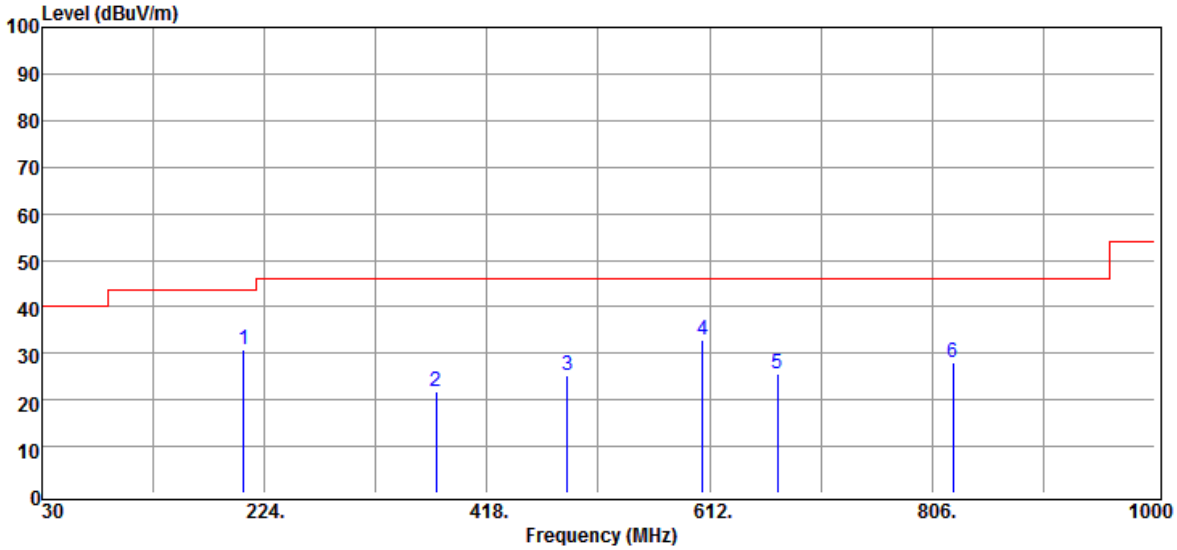
Operation Mode	:802.11ac80 / Band 2	Test Date	:2018-10-25
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5290 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
205.57	Peak	43.37	-12.73	30.64	43.50	-12.86
373.38	Peak	28.82	-7.10	21.72	46.00	-24.28
487.84	Peak	29.68	-4.52	25.16	46.00	-20.84
606.18	Peak	35.98	-3.11	32.87	46.00	-13.13
671.17	Peak	27.72	-2.02	25.70	46.00	-20.30
824.43	Peak	27.94	0.19	28.13	46.00	-17.87

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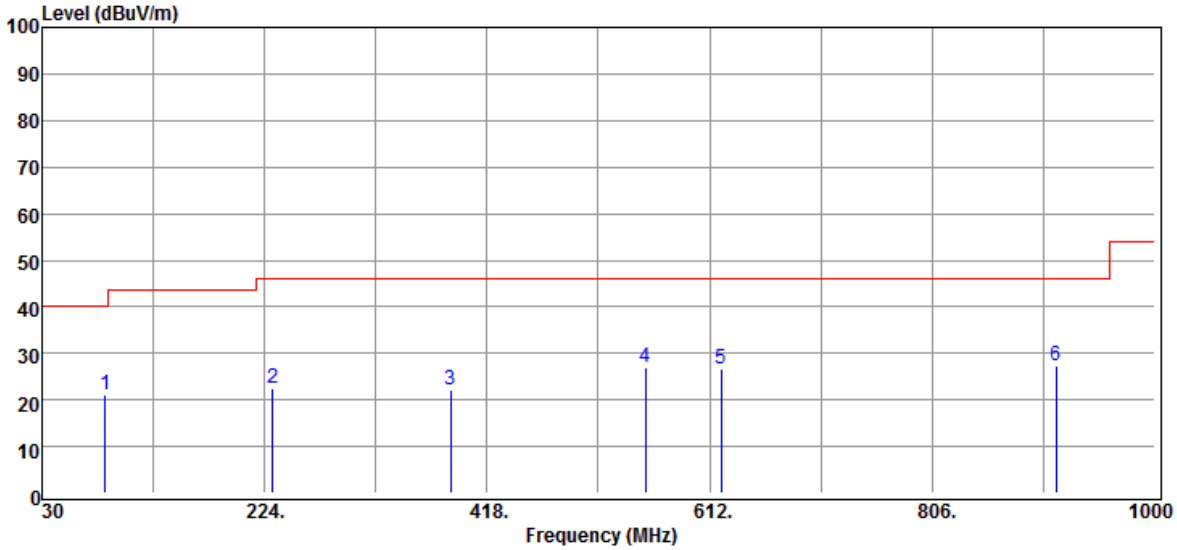
Operation Mode	:802.11ac80 / Band 2	Test Date	:2018-10-25
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5290 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
85.29	Peak	37.70	-16.60	21.10	40.00	-18.90
230.79	Peak	34.90	-12.41	22.49	46.00	-23.51
385.99	Peak	28.71	-6.61	22.10	46.00	-23.90
555.74	Peak	30.28	-3.15	27.13	46.00	-18.87
621.70	Peak	29.40	-2.84	26.56	46.00	-19.44
913.67	Peak	25.77	1.42	27.19	46.00	-18.81

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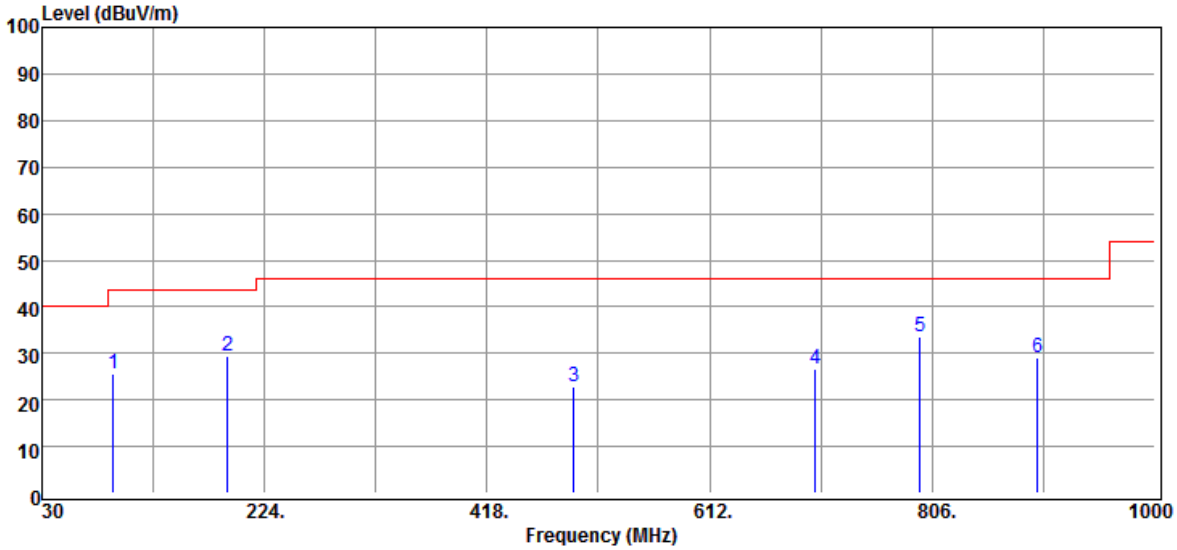
Operation Mode	:802.11ac80 / Band 3	Test Date	:2018-10-25
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5610 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
92.08	Peak	41.66	-16.03	25.63	43.50	-17.87
191.99	Peak	43.08	-13.70	29.38	43.50	-14.12
493.66	Peak	27.14	-4.34	22.80	46.00	-23.20
704.15	Peak	28.11	-1.57	26.54	46.00	-19.46
795.33	Peak	33.92	-0.43	33.49	46.00	-12.51
898.15	Peak	27.75	1.16	28.91	46.00	-17.09

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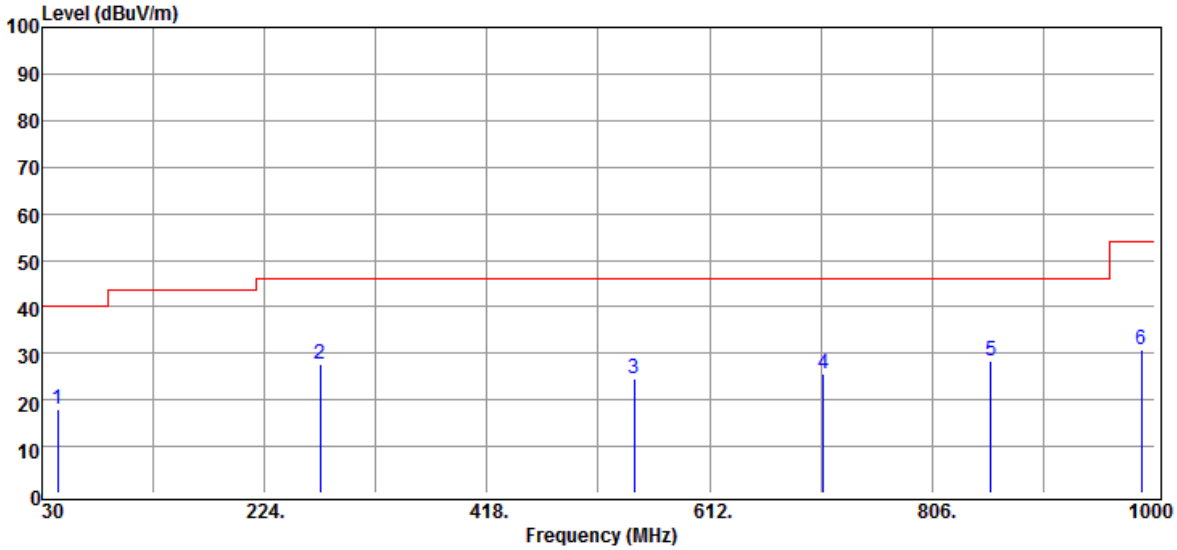
Operation Mode	:802.11ac80 / Band 3	Test Date	:2018-10-25
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5610 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
43.58	Peak	29.43	-11.43	18.00	40.00	-22.00
272.50	Peak	38.05	-10.30	27.75	46.00	-18.25
546.04	Peak	27.94	-3.22	24.72	46.00	-21.28
710.94	Peak	27.19	-1.53	25.66	46.00	-20.34
857.41	Peak	27.43	0.80	28.23	46.00	-17.77
988.36	Peak	27.89	3.01	30.90	54.00	-23.10

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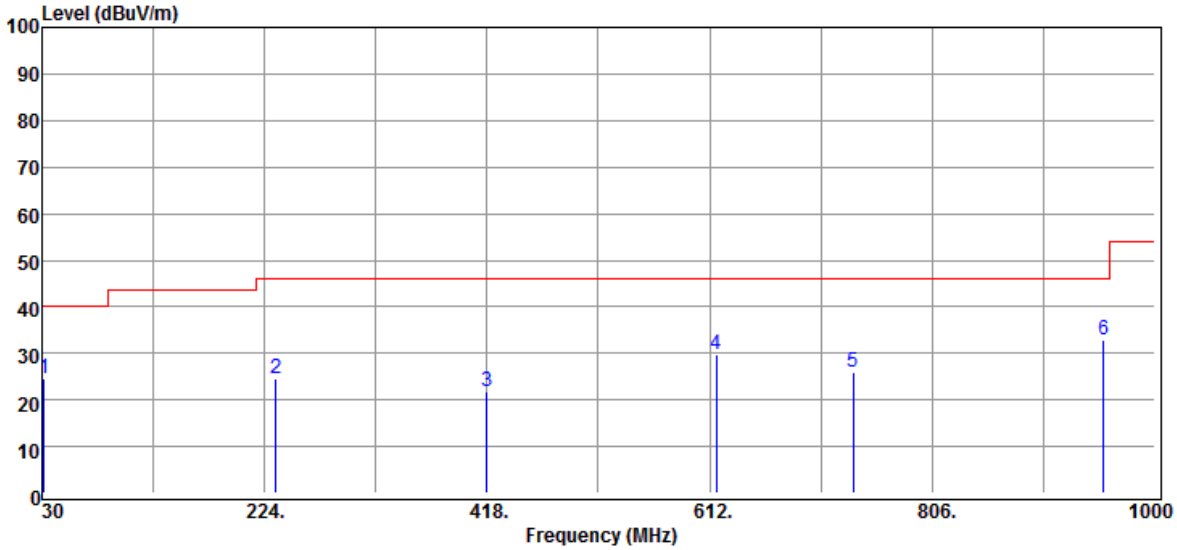
Operation Mode	:802.11ac80 / Band 4	Test Date	:2018-10-25
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5775 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
31.94	Peak	29.42	-4.71	24.71	40.00	-15.29
233.70	Peak	36.63	-12.15	24.48	46.00	-21.52
418.00	Peak	27.61	-5.84	21.77	46.00	-24.23
617.82	Peak	32.81	-2.90	29.91	46.00	-16.09
737.13	Peak	27.28	-1.42	25.86	46.00	-20.14
955.38	Peak	30.79	2.19	32.98	46.00	-13.02

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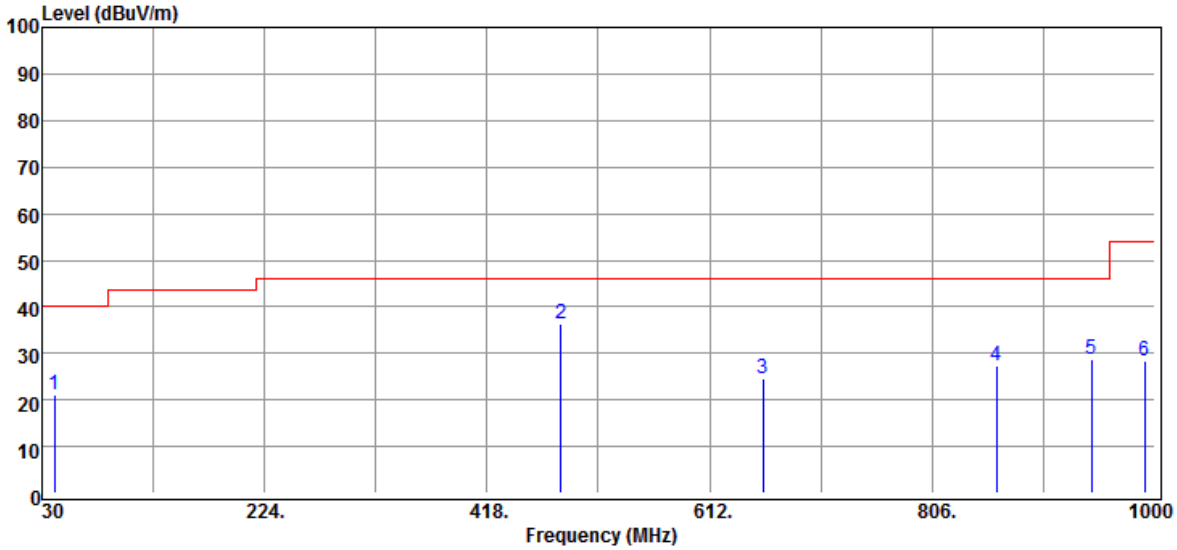
Operation Mode	:802.11ac80 / Band 4	Test Date	:2018-10-25
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5775 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
40.67	Peak	30.11	-9.17	20.94	40.00	-19.06
482.02	Peak	41.18	-4.82	36.36	46.00	-9.64
658.56	Peak	26.88	-2.21	24.67	46.00	-21.33
862.26	Peak	26.55	0.84	27.39	46.00	-18.61
944.71	Peak	26.83	1.96	28.79	46.00	-17.21
991.27	Peak	25.33	3.09	28.42	54.00	-25.58

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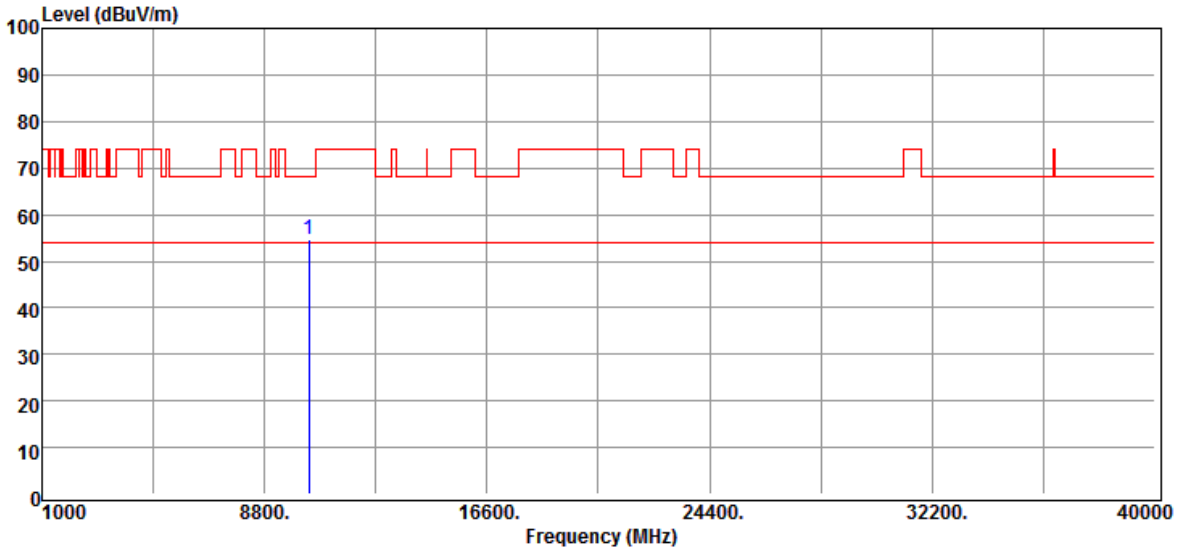
Above 1GHz Worst-Case Data:
Radiated Spurious Emission Measurement Result 802.11a, 5150~5250 MHz

Operation Mode	:802.11a / Band 1	Test Date	:2018-10-18
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5180 MHz	Engineer	:Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10360.00	Peak	28.16	26.61	54.77	68.20	-13.43

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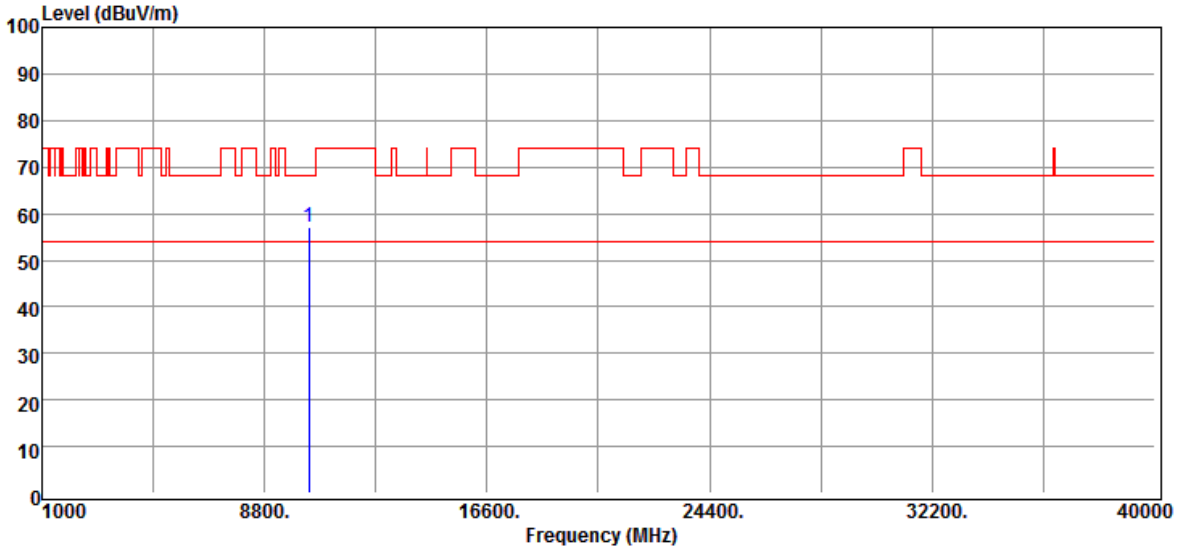
Operation Mode	:802.11a / Band 1	Test Date	:2018-10-18
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5180 MHz	Engineer	:Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10360.00	Peak	30.54	26.61	57.15	68.20	-11.05

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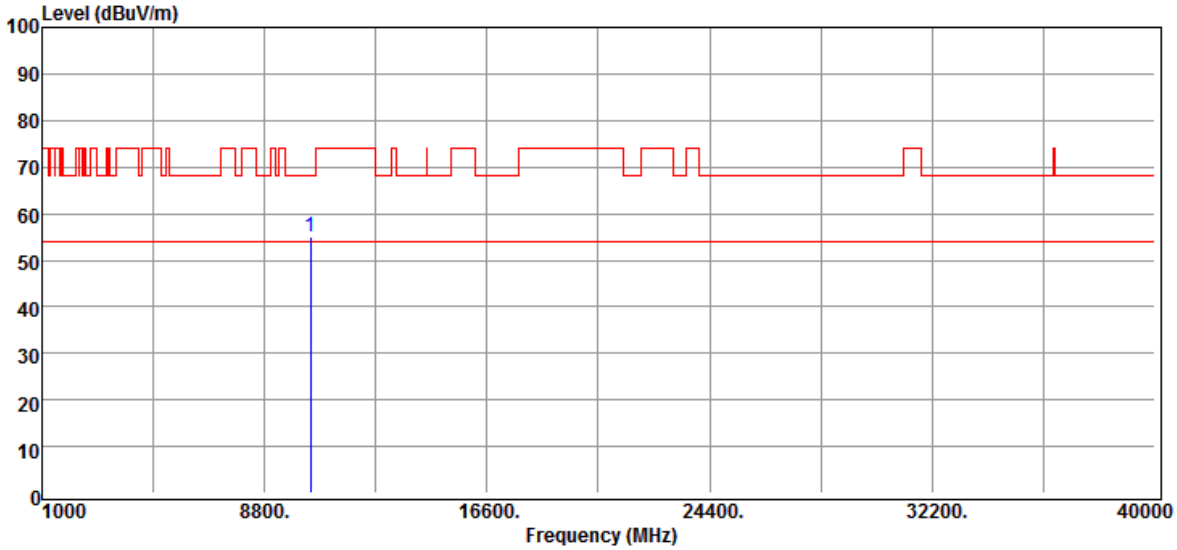
Operation Mode	:802.11a / Band 1	Test Date	:2018-10-18
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5200 MHz	Engineer	:Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10400.00	Peak	28.32	26.79	55.11	68.20	-13.09

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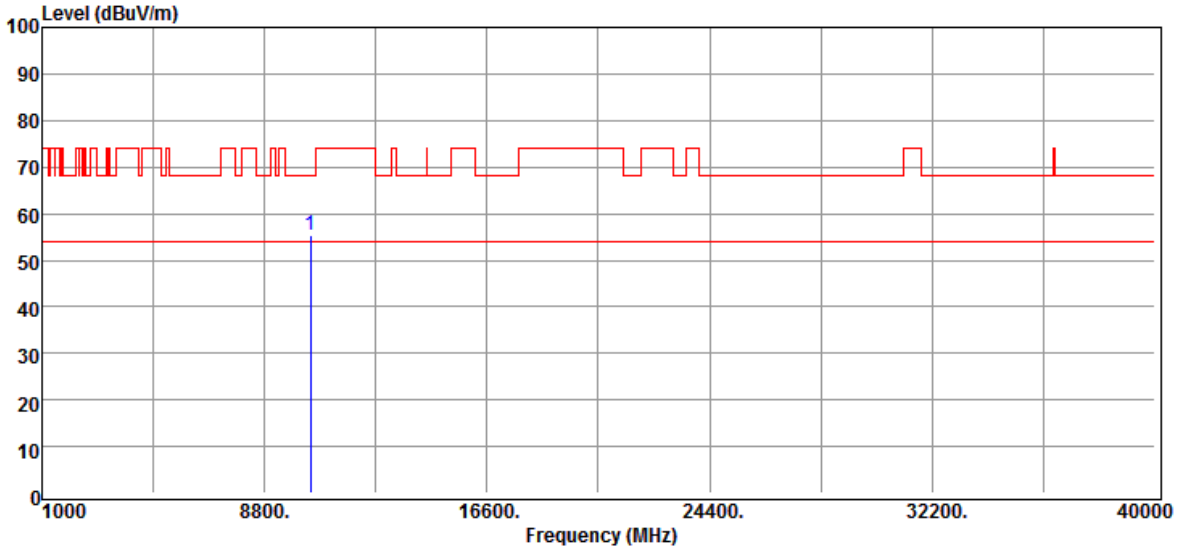
Operation Mode	:802.11a / Band 1	Test Date	:2018-10-18
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5200 MHz	Engineer	:Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10400.00	Peak	28.55	26.79	55.34	68.20	-12.86

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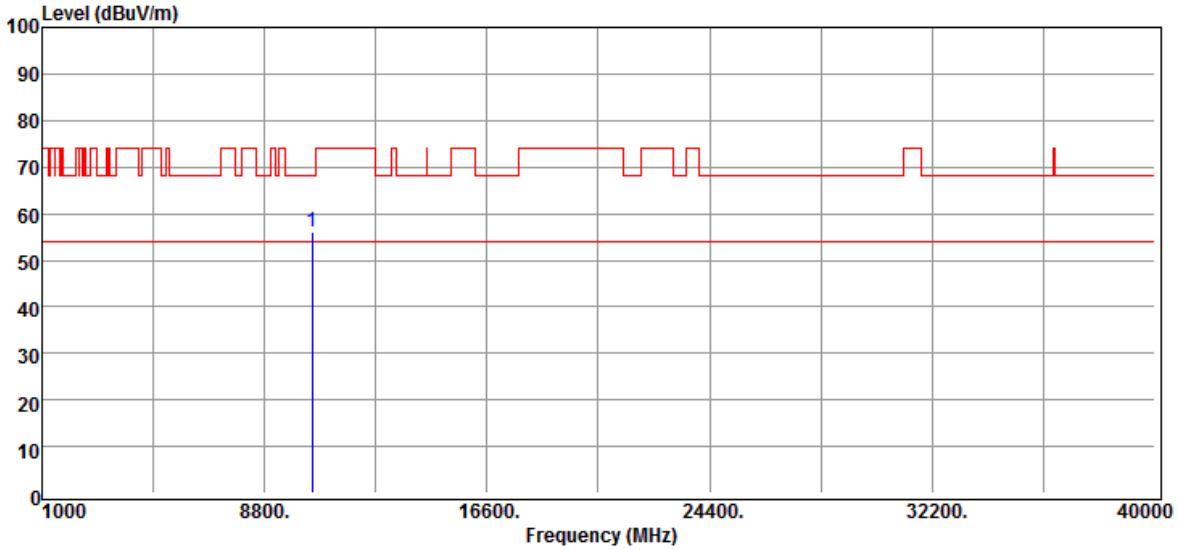
Operation Mode	:802.11a / Band 1	Test Date	:2018-10-18
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5240 MHz	Engineer	:Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10480.00	Peak	28.73	27.16	55.89	68.20	-12.31

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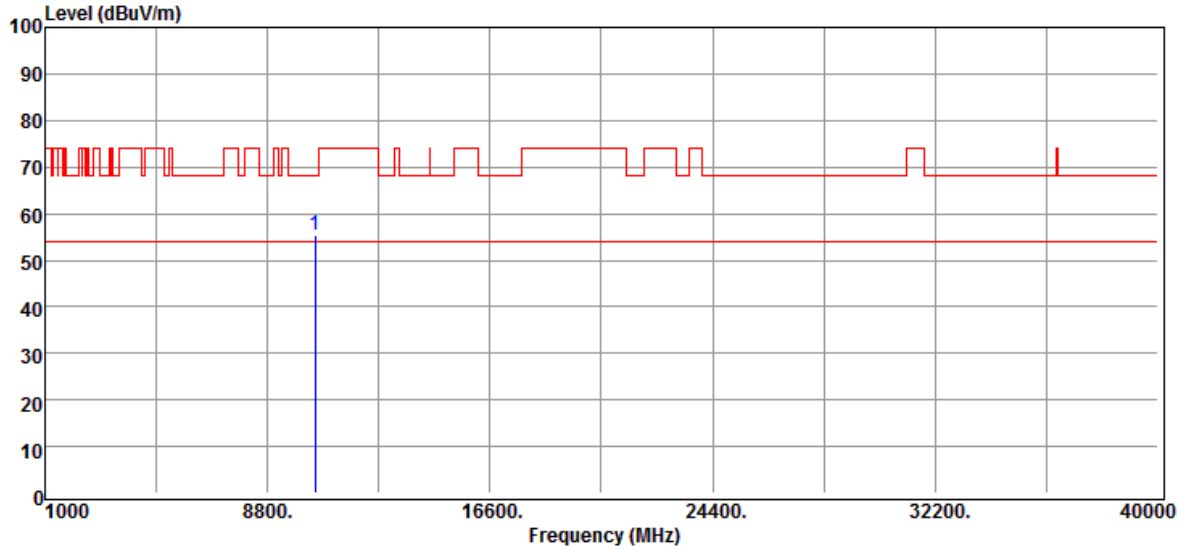
Operation Mode	:802.11a / Band 1	Test Date	:2018-10-18
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5240 MHz	Engineer	:Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10480.00	Peak	28.21	27.16	55.37	68.20	-12.83

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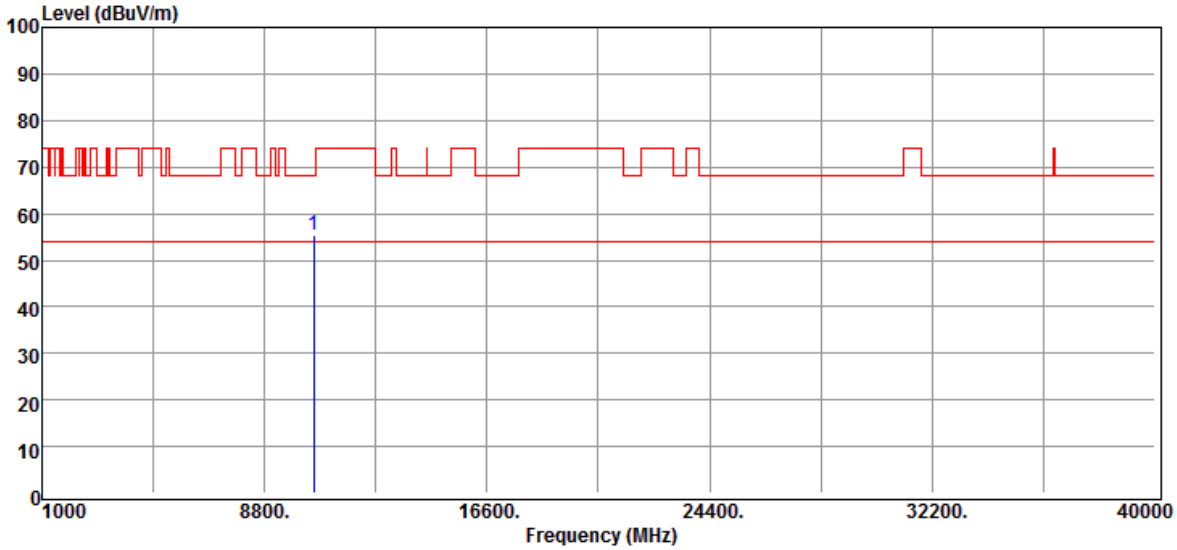
Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Mode	:802.11a / Band 2	Test Date	:2018-10-18
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5260 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10520.00	Peak	28.23	27.23	55.46	68.20	-12.74

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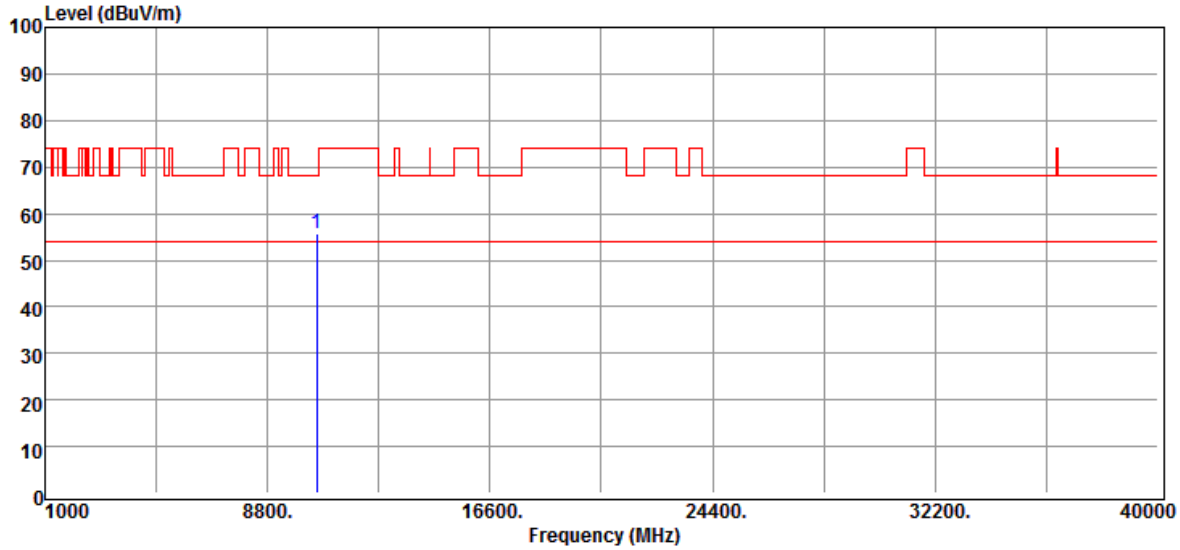
Operation Mode	:802.11a / Band 2	Test Date	:2018-10-18
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5260 MHz	Engineer	:Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10520.00	Peak	28.39	27.23	55.62	68.20	-12.58

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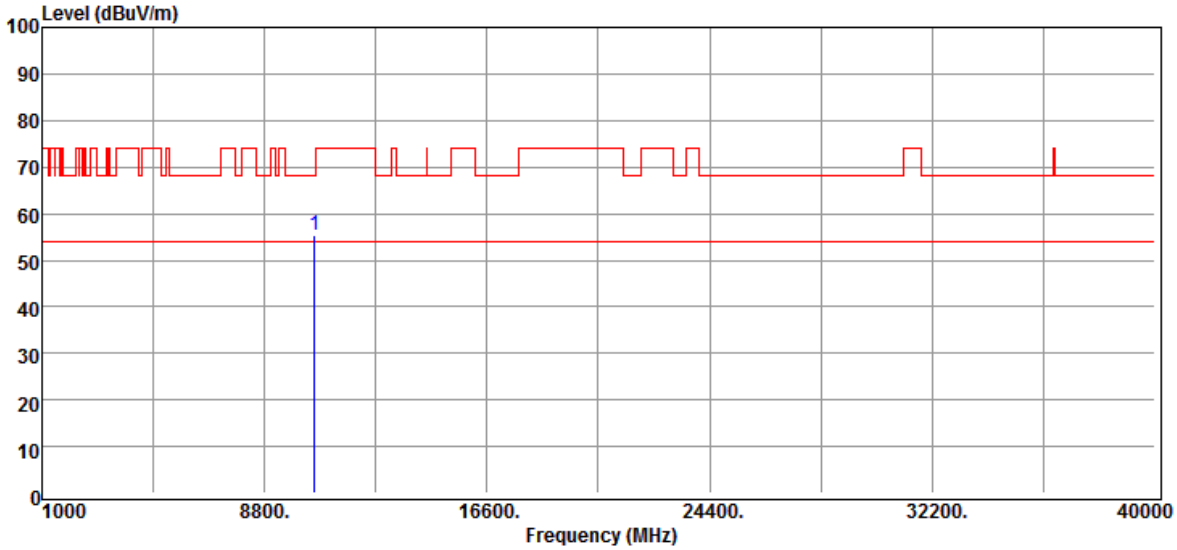
Operation Mode	:802.11a / Band 2	Test Date	:2018-10-18
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5280 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10560.00	Peak	28.13	27.21	55.34	68.20	-12.86

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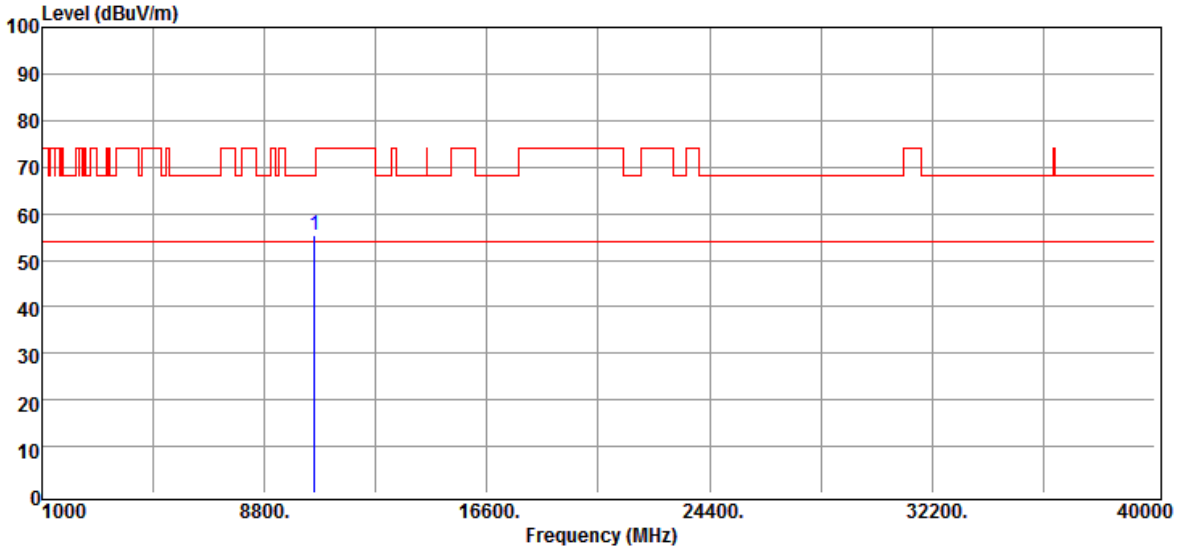
Operation Mode	:802.11a / Band 2	Test Date	:2018-10-18
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5280 MHz	Engineer	:Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10560.00	Peak	28.31	27.21	55.52	68.20	-12.68

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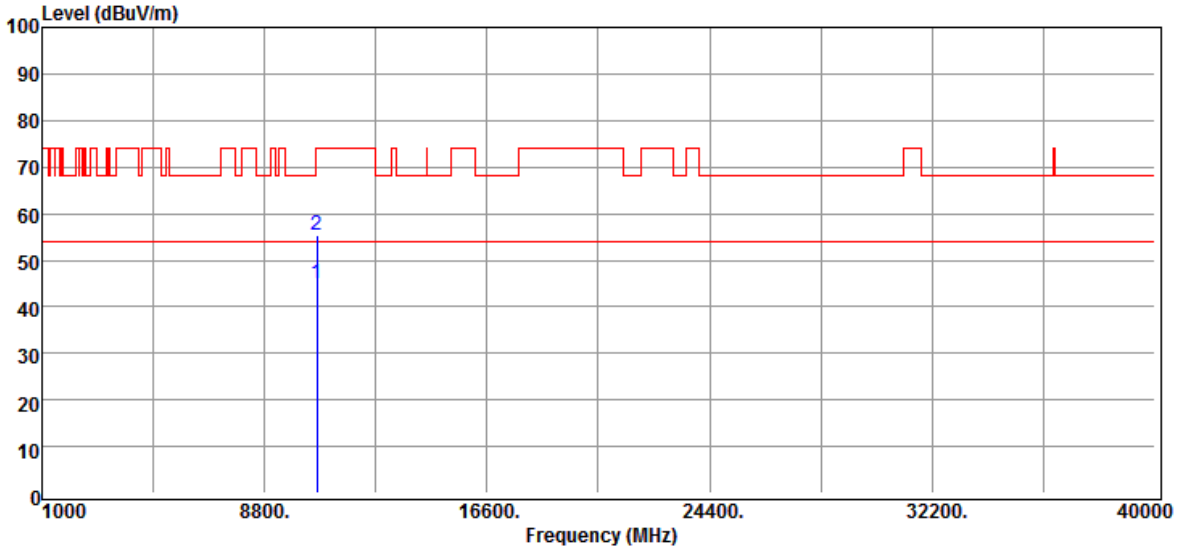
Operation Mode	:802.11a / Band 2	Test Date	:2018-10-18
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5320 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10640.00	Average	17.67	27.20	44.87	54.00	-9.13
10640.00	Peak	28.00	27.20	55.20	74.00	-18.80

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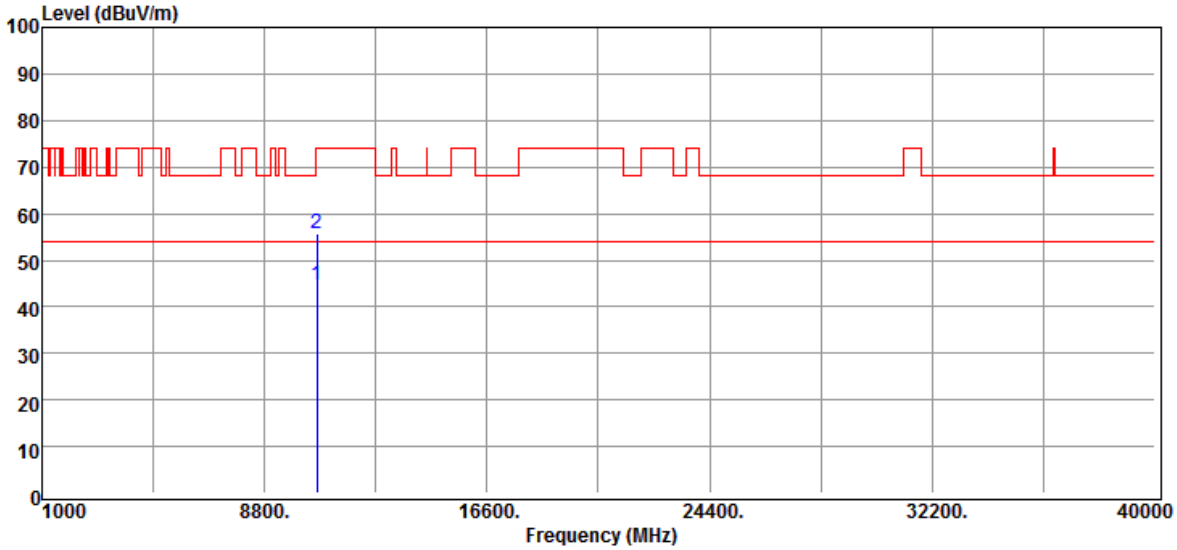
Operation Mode	:802.11a / Band 2	Test Date	:2018-10-19
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5320 MHz	Engineer	:Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10640.00	Average	17.42	27.20	44.62	54.00	-9.38
10640.00	Peak	28.50	27.20	55.70	74.00	-18.30

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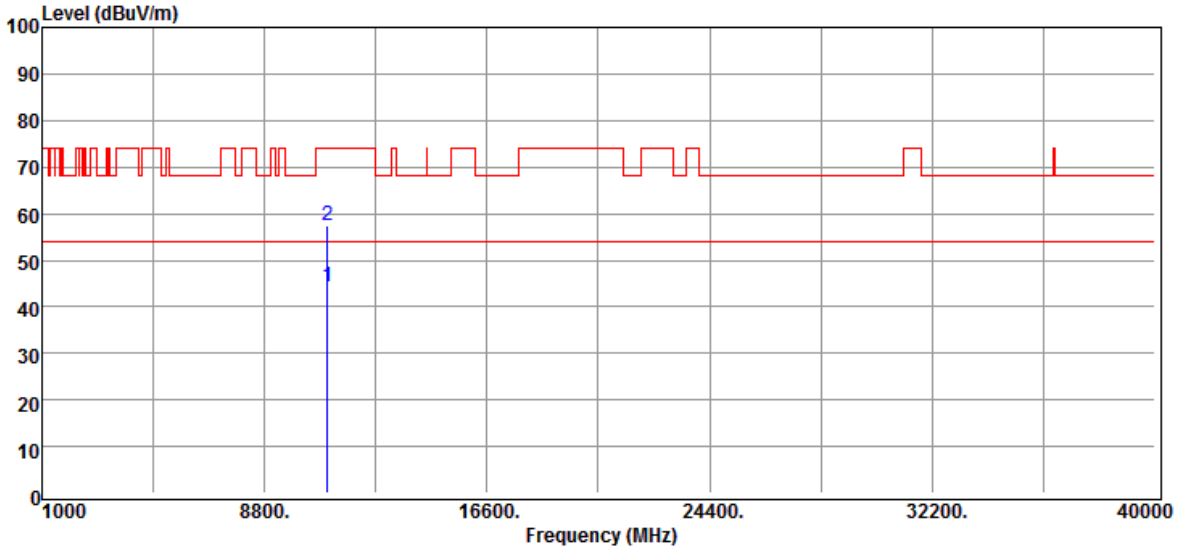
Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Mode	:802.11a / Band 3	Test Date	:2018-10-19
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5500 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11000.00	Average	17.31	27.09	44.40	54.00	-9.60
11000.00	Peak	30.33	27.09	57.42	74.00	-16.58

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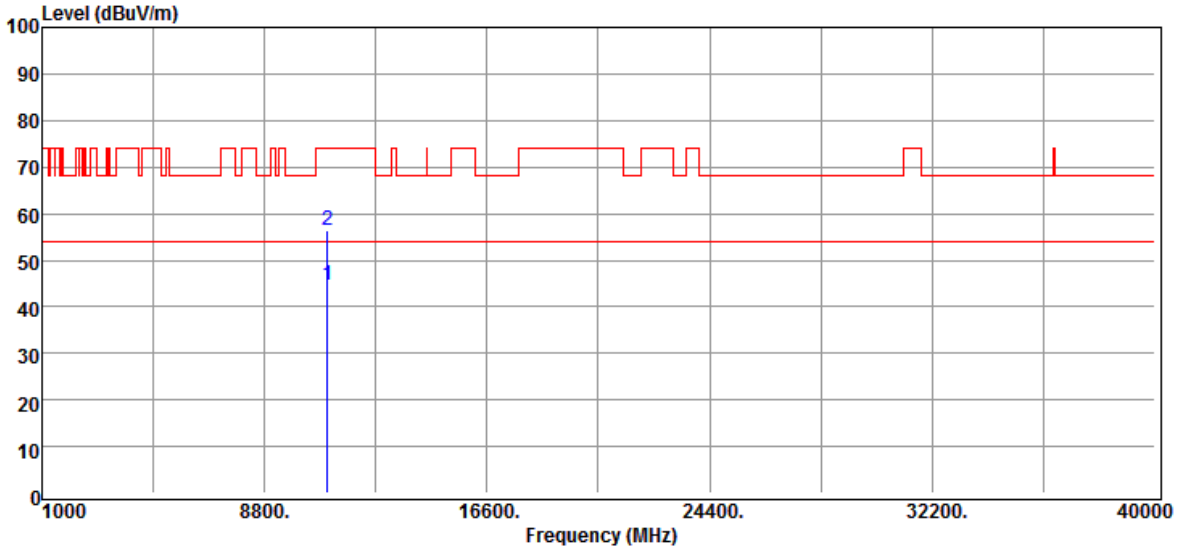
Operation Mode	:802.11a / Band 3	Test Date	:2018-10-19
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5500 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11000.00	Average	17.43	27.09	44.52	54.00	-9.48
11000.00	Peak	29.29	27.09	56.38	74.00	-17.62

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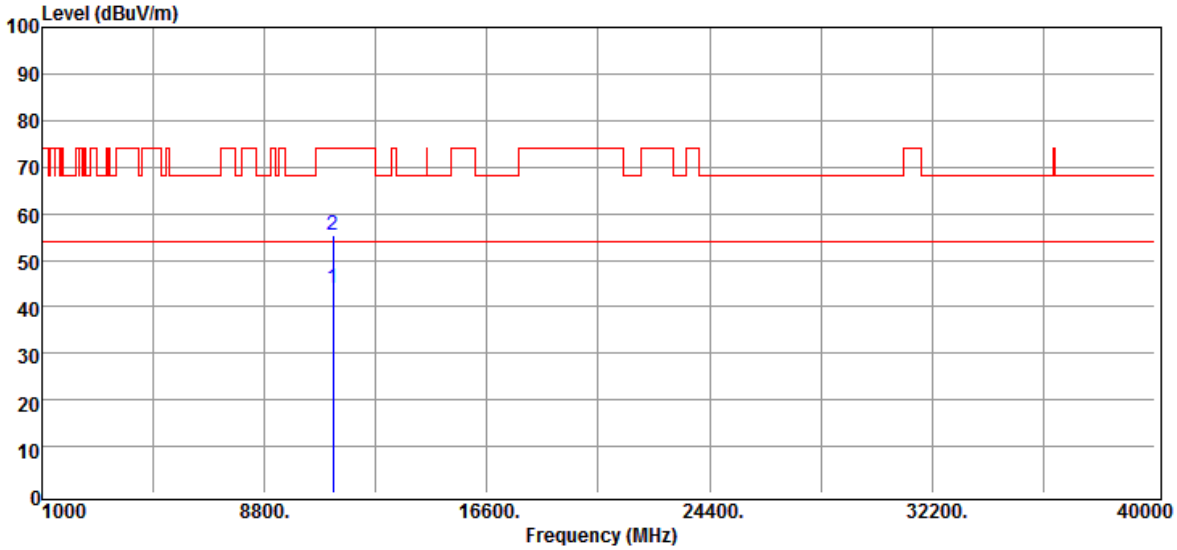
Operation Mode	:802.11a / Band 3	Test Date	:2018-10-19
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5600 MHz	Engineer	:Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11200.00	Average	17.38	26.57	43.95	54.00	-10.05
11200.00	Peak	28.78	26.57	55.35	74.00	-18.65

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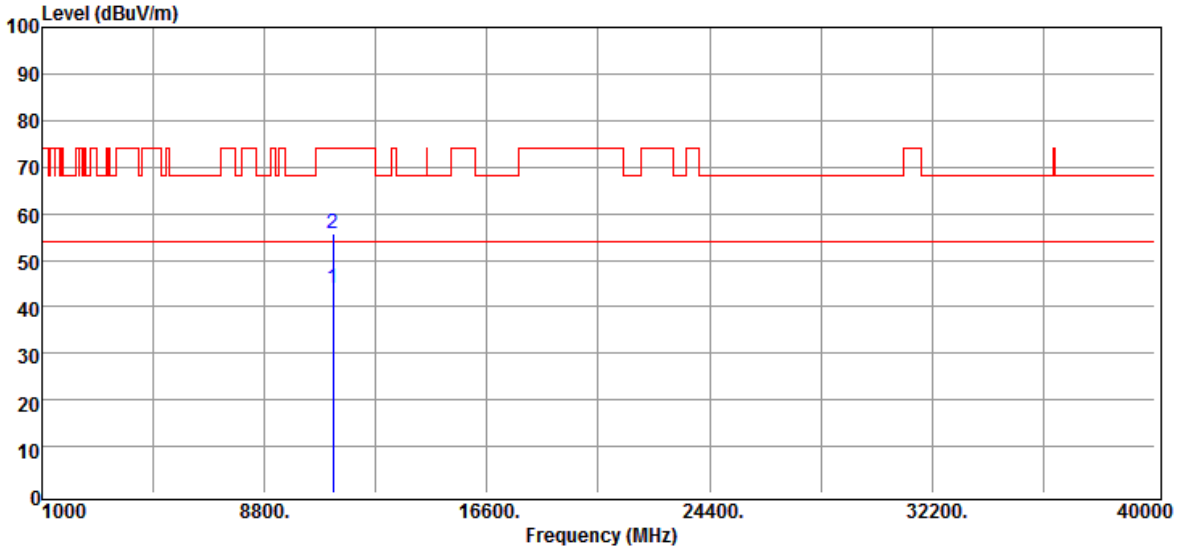
Operation Mode	:802.11a / Band 3	Test Date	:2018-10-19
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5600 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11200.00	Average	17.41	26.57	43.98	54.00	-10.02
11200.00	Peak	29.14	26.57	55.71	74.00	-18.29

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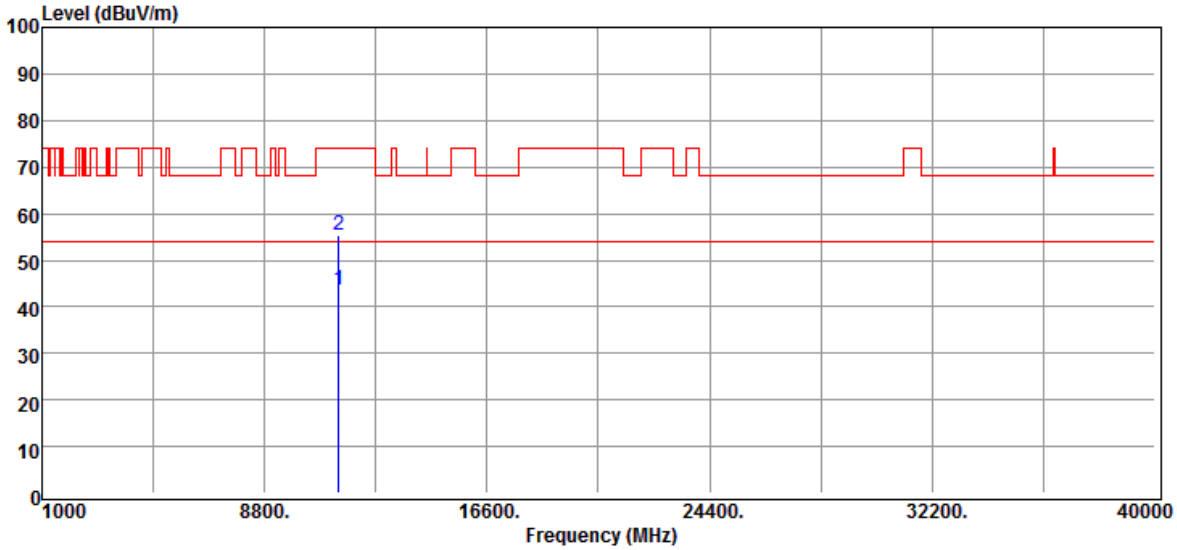
Operation Mode	:802.11a / Band 3	Test Date	:2018-10-19
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5700 MHz	Engineer	:Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11400.00	Average	17.68	26.07	43.75	54.00	-10.25
11400.00	Peak	29.16	26.07	55.23	74.00	-18.77

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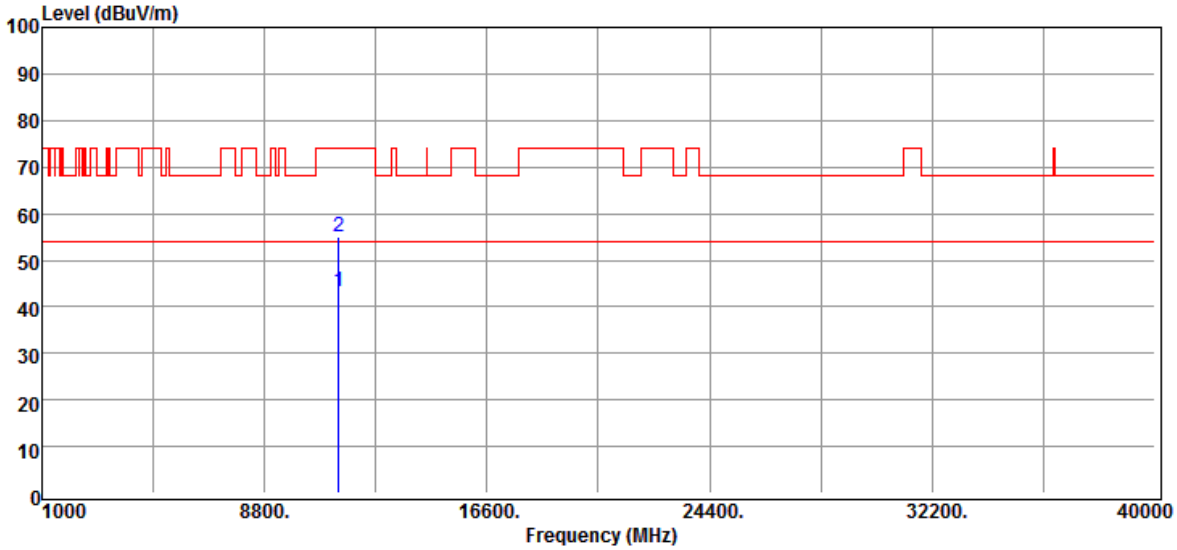
Operation Mode	:802.11a / Band 3	Test Date	:2018-10-19
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5700 MHz	Engineer	:Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11400.00	Average	17.22	26.07	43.29	54.00	-10.71
11400.00	Peak	28.88	26.07	54.95	74.00	-19.05

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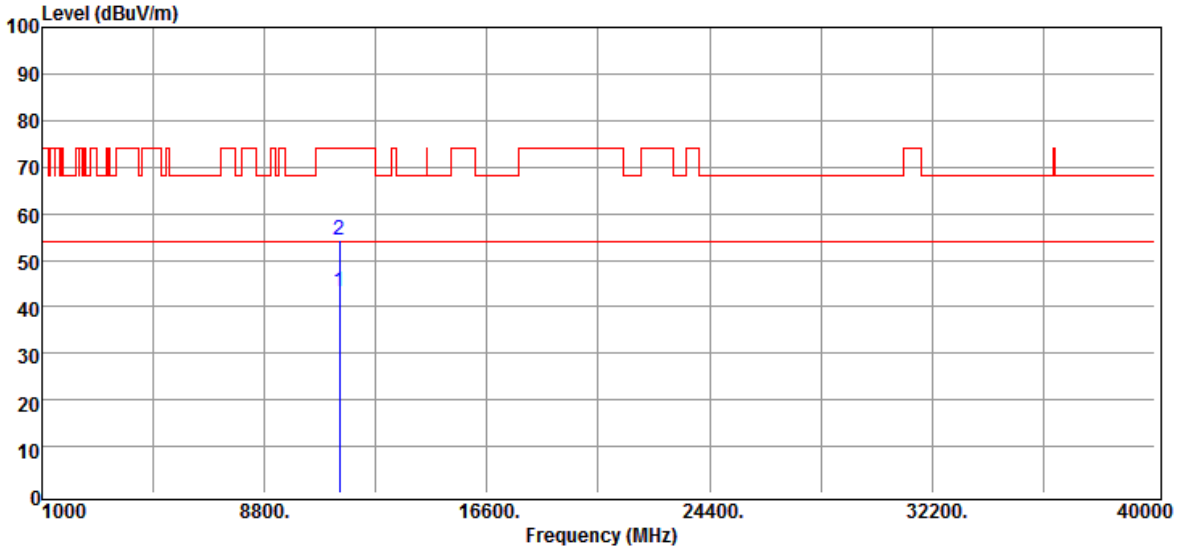
Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode	:802.11a / Band 3-4	Test Date	:2018-10-19
Test Mode	:TX CH 144	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5720 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11440.00	Average	17.29	25.96	43.25	54.00	-10.75
11440.00	Peak	28.45	25.96	54.41	74.00	-19.59

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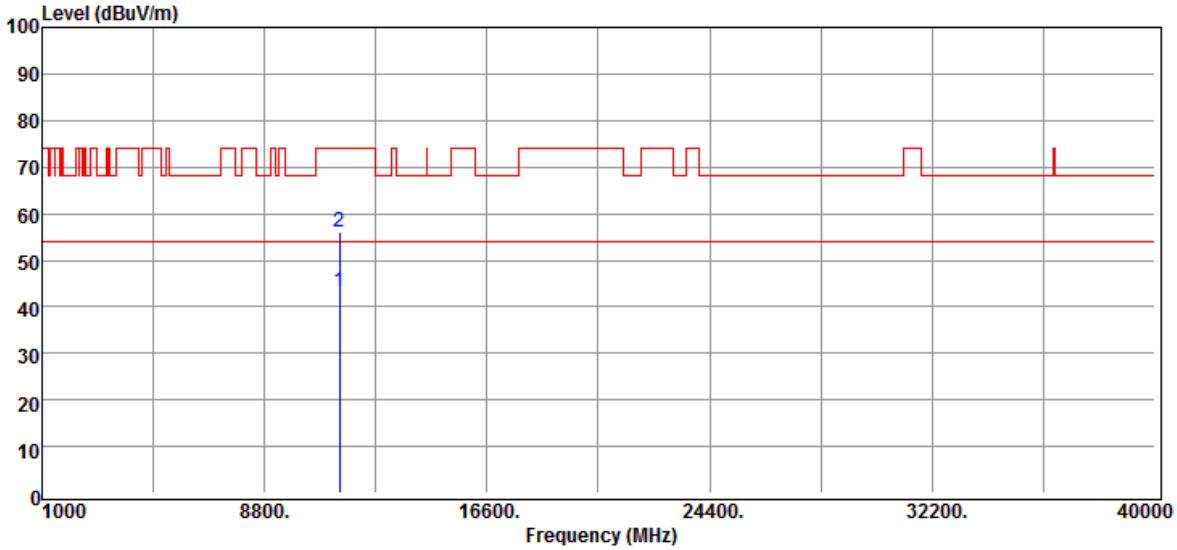
Operation Mode	:802.11a / Band 3-4	Test Date	:2018-10-19
Test Mode	:TX CH 144	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5720 MHz	Engineer	:Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11440.00	Average	17.29	25.96	43.25	54.00	-10.75
11440.00	Peak	30.00	25.96	55.96	74.00	-18.04

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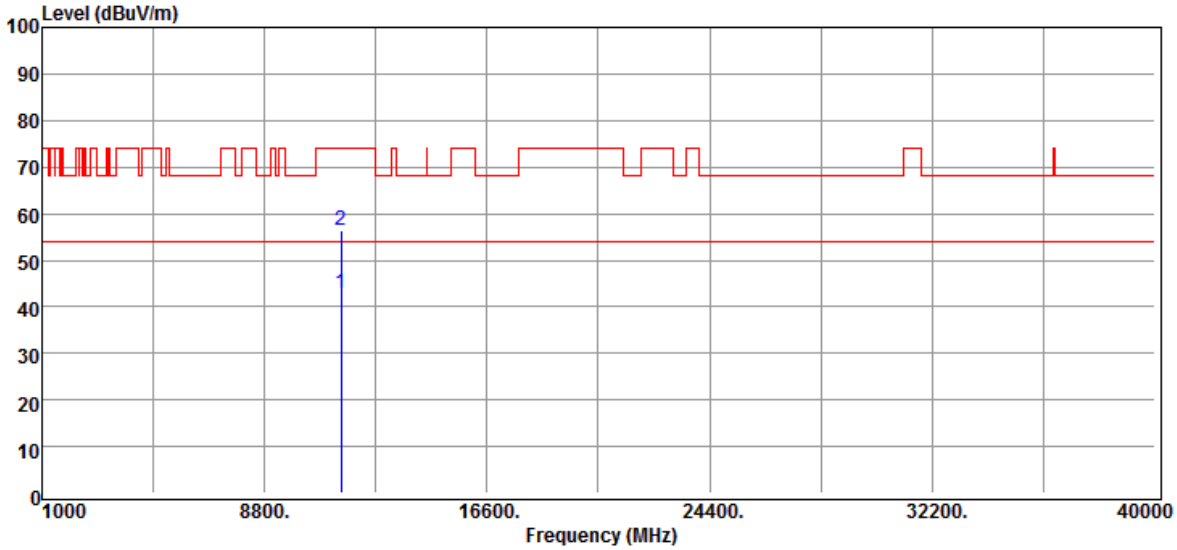
Operation Mode	:802.11a / Band 4	Test Date	:2018-10-19
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5745 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11490.00	Average	17.20	25.83	43.03	54.00	-10.97
11490.00	Peak	30.53	25.83	56.36	74.00	-17.64

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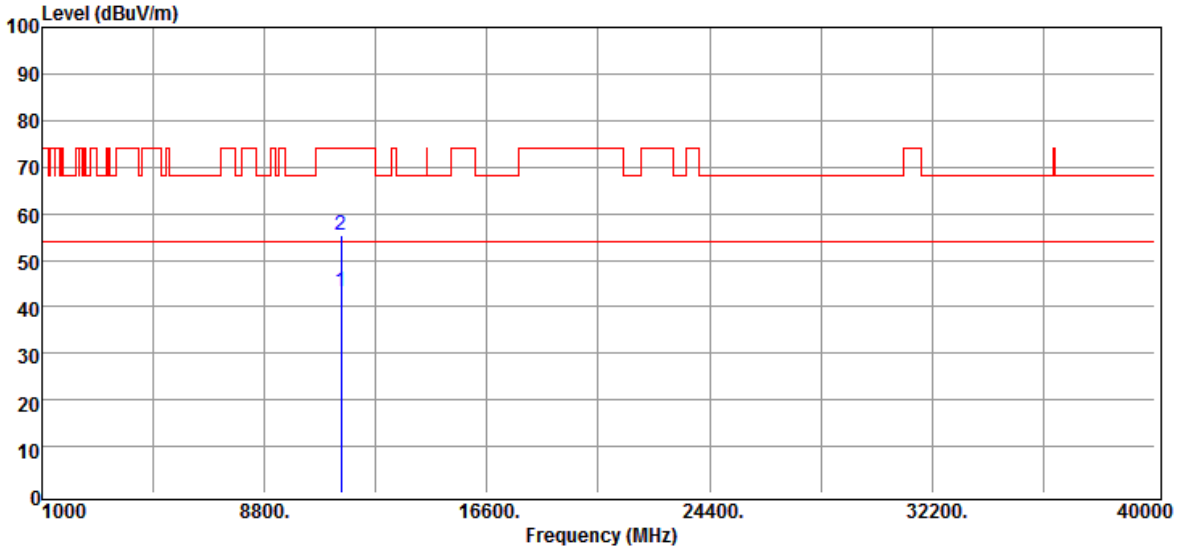
Operation Mode	:802.11a / Band 4	Test Date	:2018-10-19
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5745 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11490.00	Average	17.26	25.83	43.09	54.00	-10.91
11490.00	Peak	29.45	25.83	55.28	74.00	-18.72

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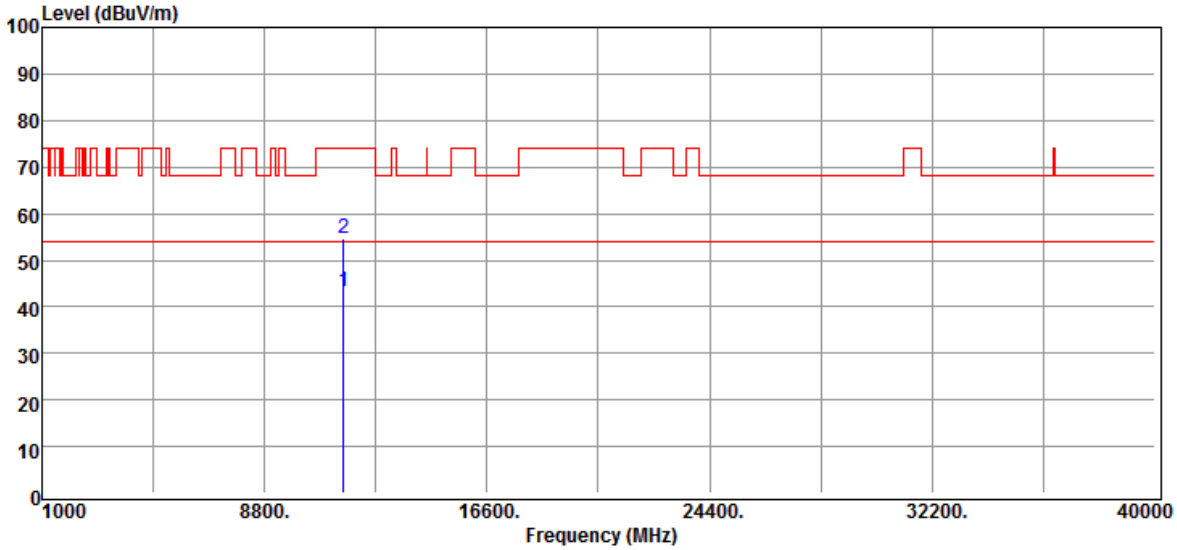
Operation Mode	:802.11a / Band 4	Test Date	:2018-10-19
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5785 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11570.00	Average	17.34	25.87	43.21	54.00	-10.79
11570.00	Peak	28.71	25.87	54.58	74.00	-19.42

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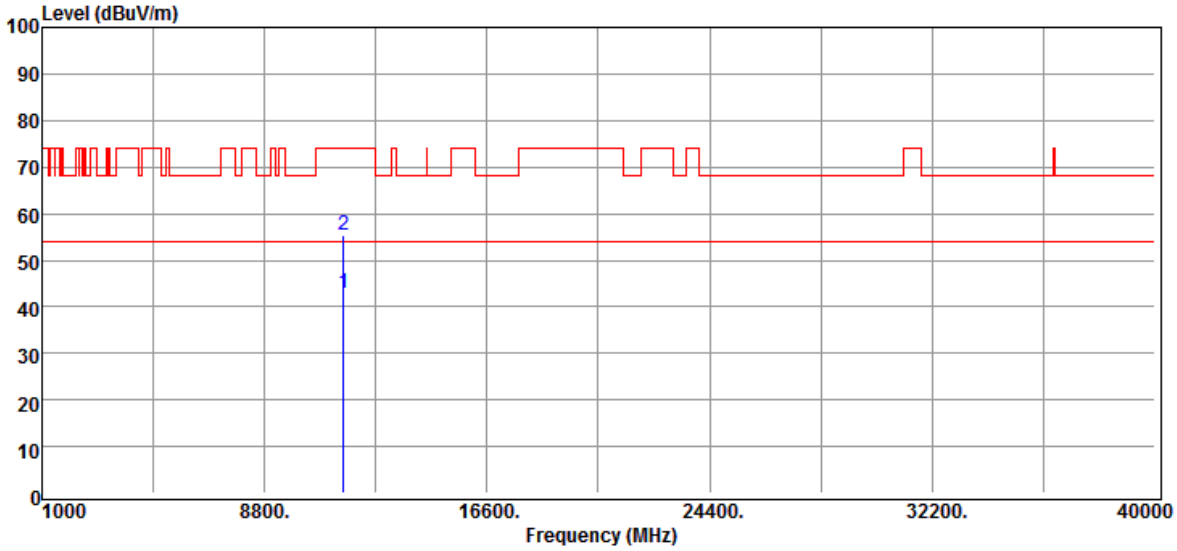
Operation Mode	:802.11a / Band 4	Test Date	:2018-10-19
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5785 MHz	Engineer	:Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11570.00	Average	17.18	25.87	43.05	54.00	-10.95
11570.00	Peak	29.38	25.87	55.25	74.00	-18.75

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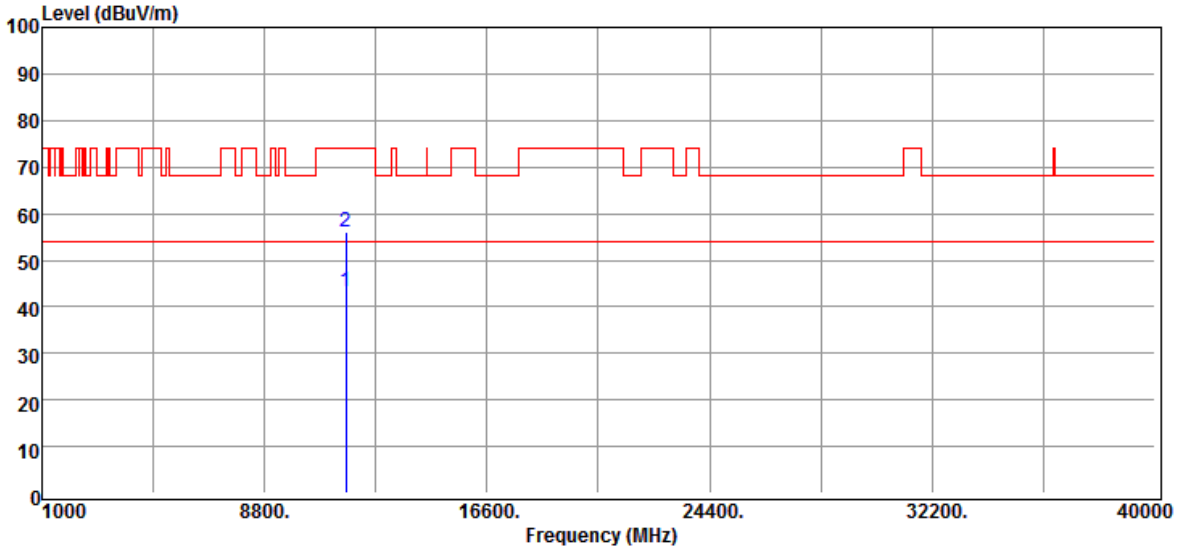
Operation Mode	:802.11a / Band 4	Test Date	:2018-10-19
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5825 MHz	Engineer	:Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11650.00	Average	17.15	25.94	43.09	54.00	-10.91
11650.00	Peak	29.95	25.94	55.89	74.00	-18.11

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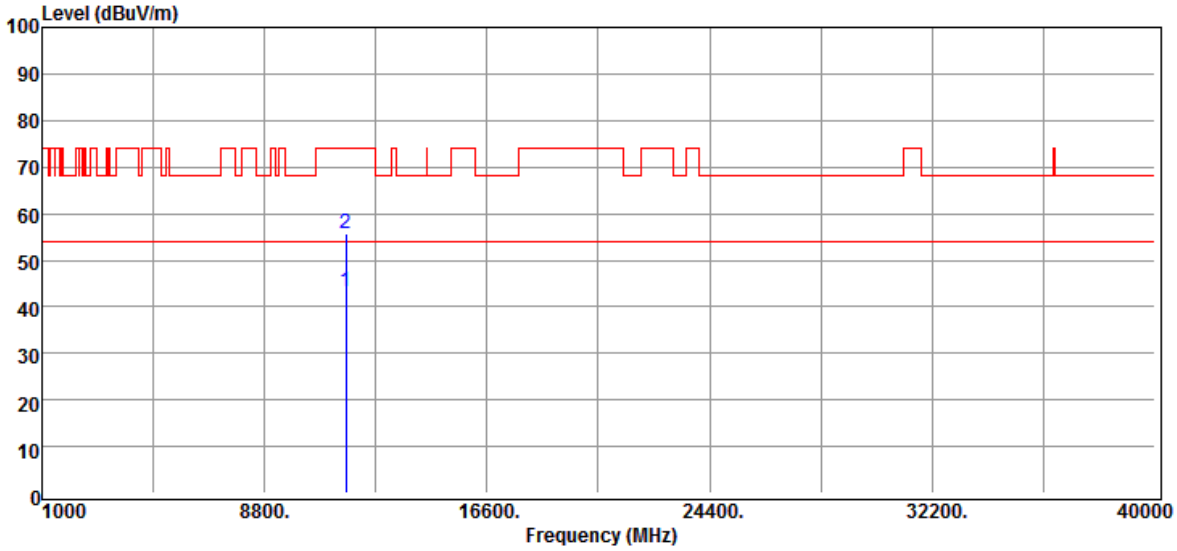
Operation Mode	:802.11a / Band 4	Test Date	:2018-10-19
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5825 MHz	Engineer	:Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11650.00	Average	17.22	25.94	43.16	54.00	-10.84
11650.00	Peak	29.84	25.94	55.78	74.00	-18.22

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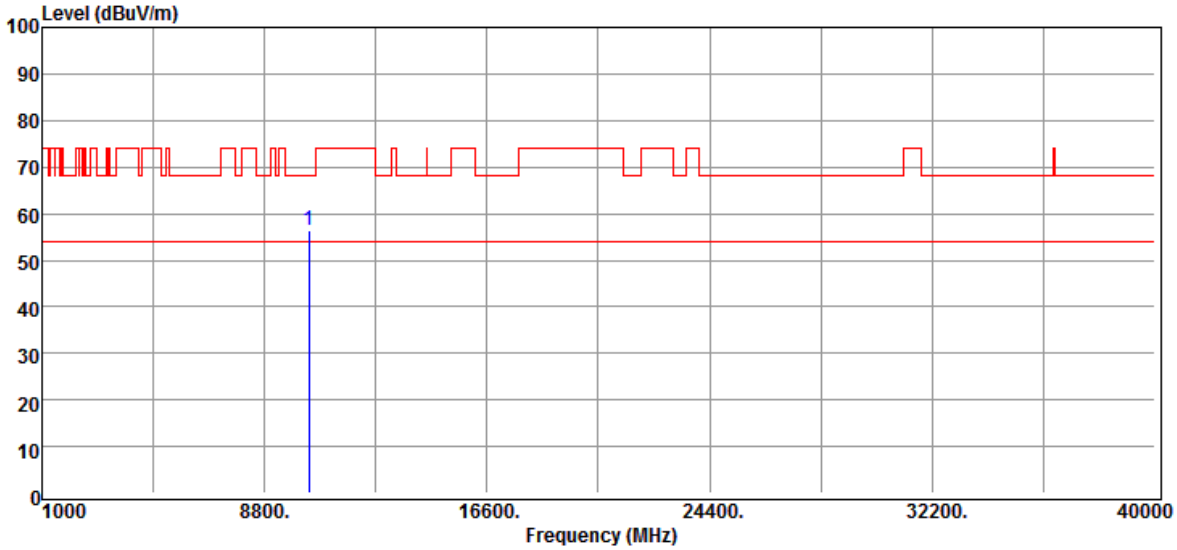
Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Mode	:802.11n20 / Band 1	Test Date	:2018-10-22
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5180 MHz	Engineer	:Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10360.00	Peak	29.90	26.61	56.51	68.20	-11.69

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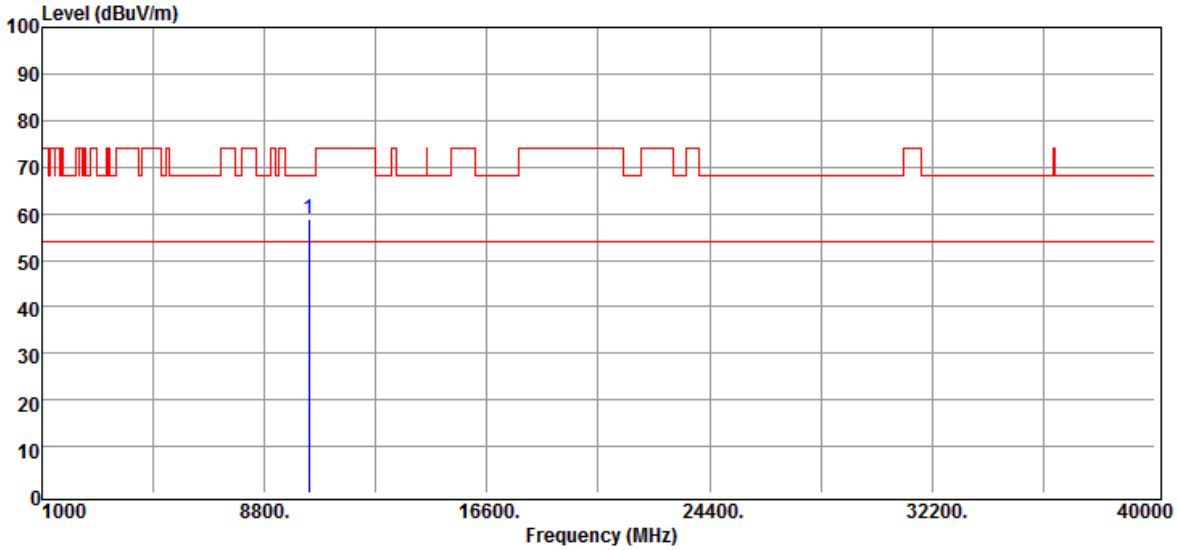
Operation Mode	:802.11n20 / Band 1	Test Date	:2018-10-22
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5180 MHz	Engineer	:Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10360.00	Peak	32.29	26.61	58.90	68.20	-9.30

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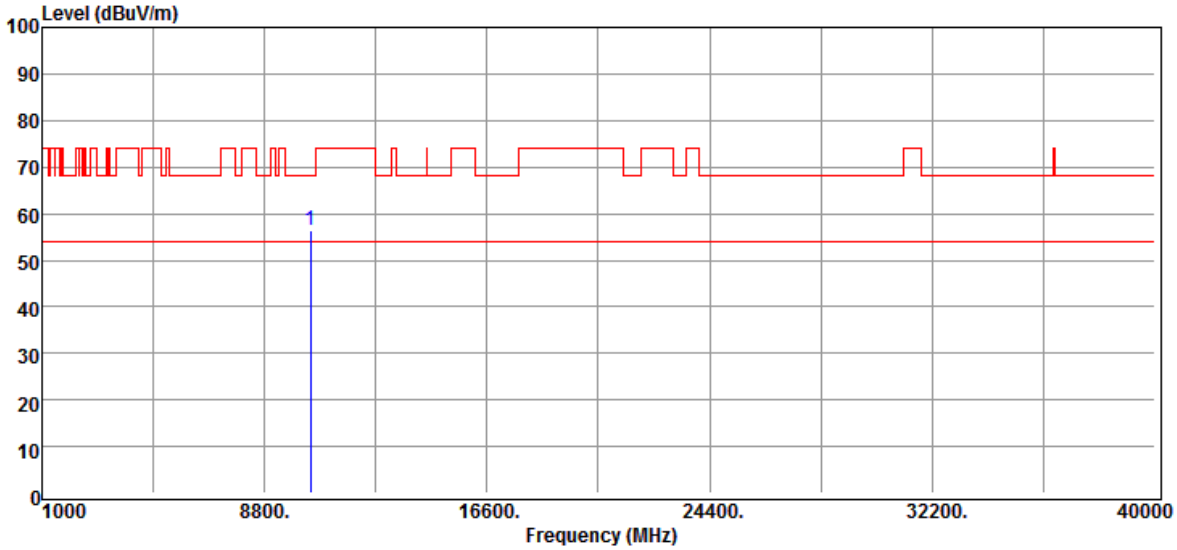
Operation Mode	:802.11n20 / Band 1	Test Date	:2018-10-22
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5200 MHz	Engineer	:Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10400.00	Peak	29.62	26.79	56.41	68.20	-11.79

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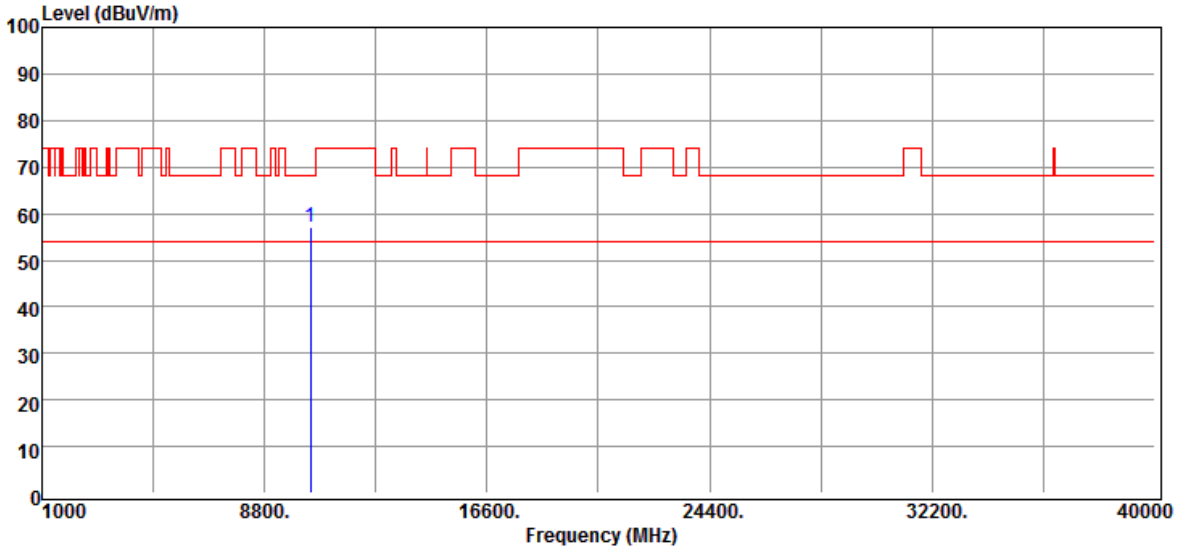
Operation Mode	:802.11n20 / Band 1	Test Date	:2018-10-22
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5200 MHz	Engineer	:Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10400.00	Peak	30.39	26.79	57.18	68.20	-11.02

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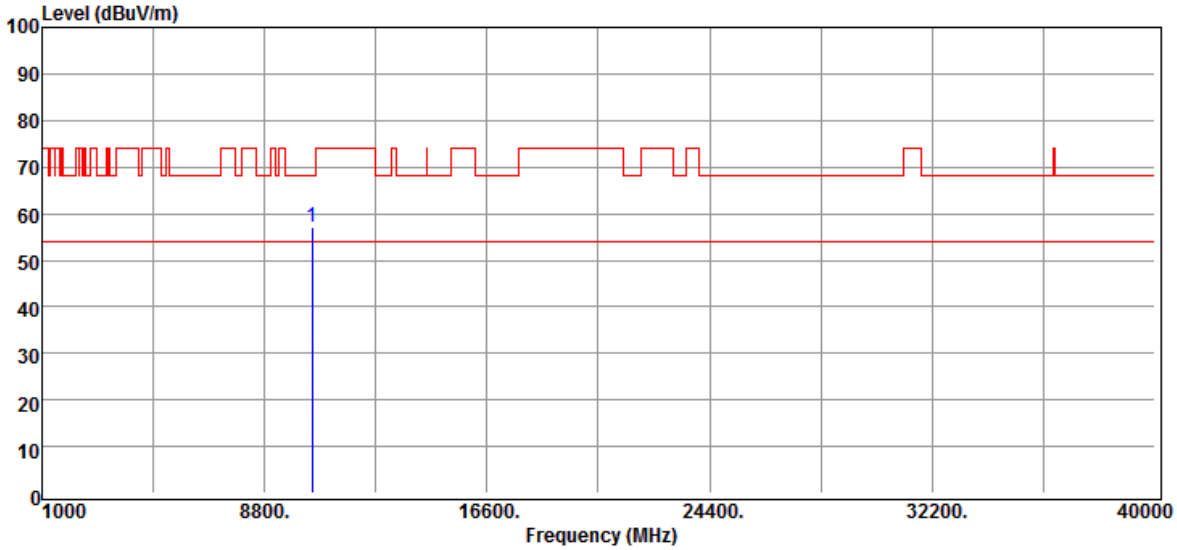
Operation Mode	:802.11n20 / Band 1	Test Date	:2018-10-22
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5240 MHz	Engineer	:Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10480.00	Peak	29.76	27.16	56.92	68.20	-11.28

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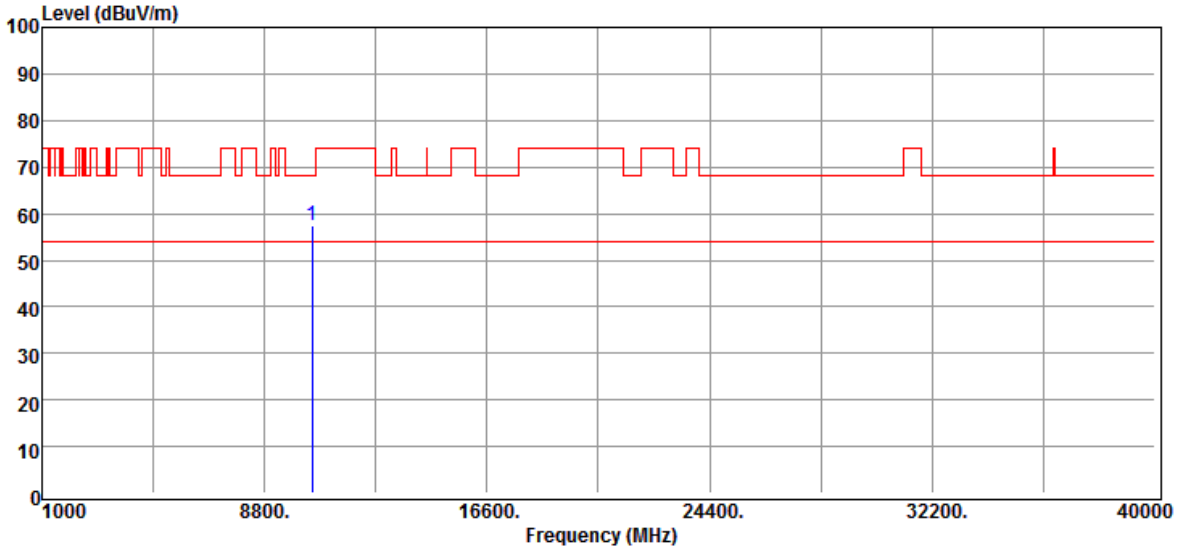
Operation Mode	:802.11n20 / Band 1	Test Date	:2018-10-22
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5240 MHz	Engineer	:Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10480.00	Peak	30.12	27.16	57.28	68.20	-10.92

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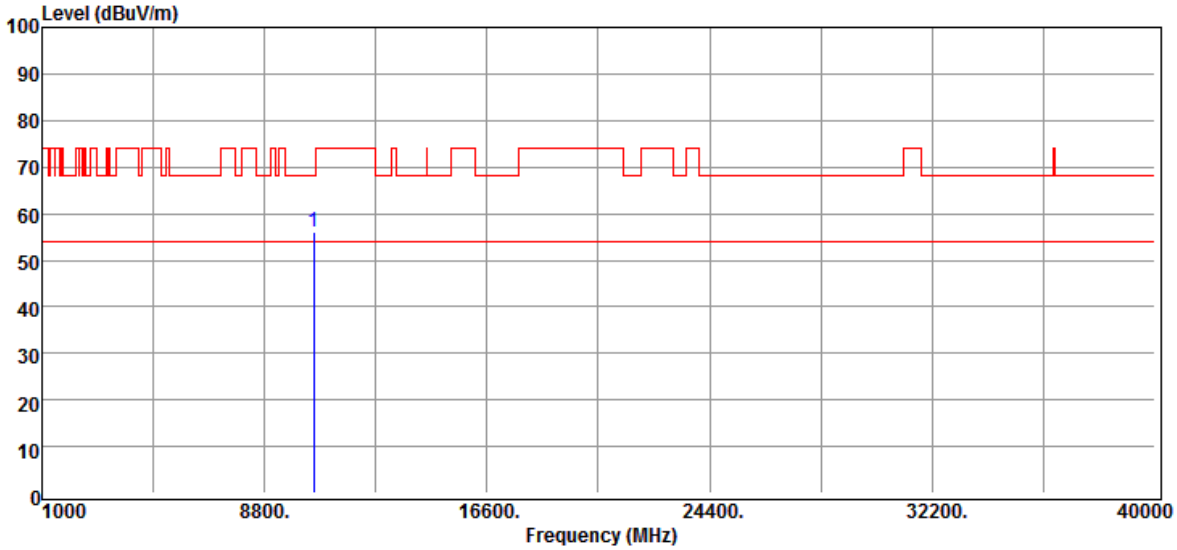
Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Mode	:802.11n20 / Band 2	Test Date	:2018-10-22
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5260 MHz	Engineer	:Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10520.00	Peak	28.79	27.23	56.02	68.20	-12.18

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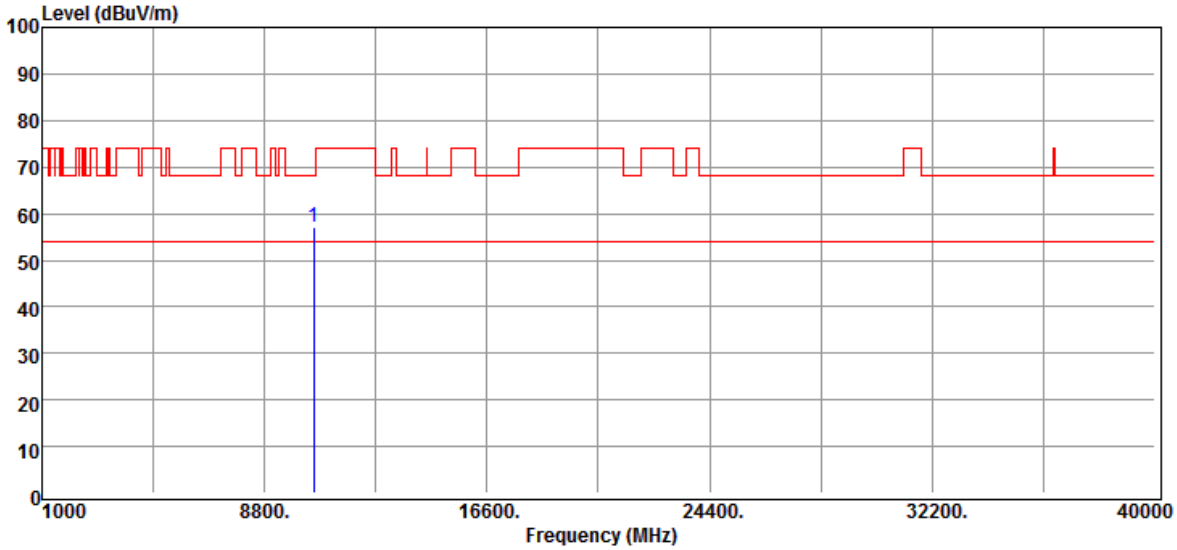
Operation Mode	:802.11n20 / Band 2	Test Date	:2018-10-22
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5260 MHz	Engineer	:Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10520.00	Peak	29.89	27.23	57.12	68.20	-11.08

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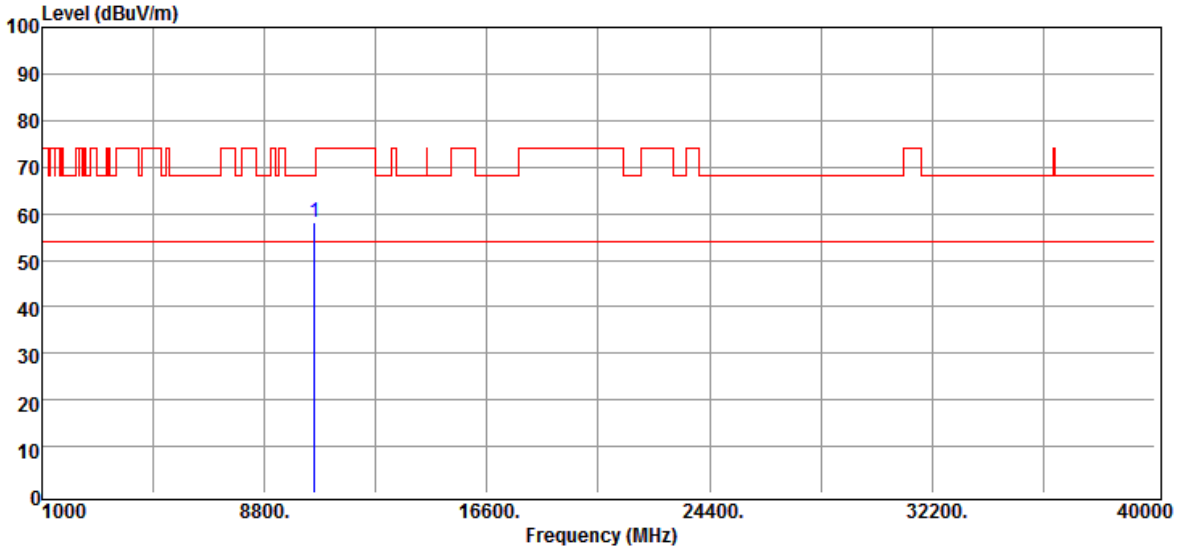
Operation Mode	:802.11n20 / Band 2	Test Date	:2018-10-22
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5280 MHz	Engineer	:Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10560.00	Peak	30.76	27.21	57.97	68.20	-10.23

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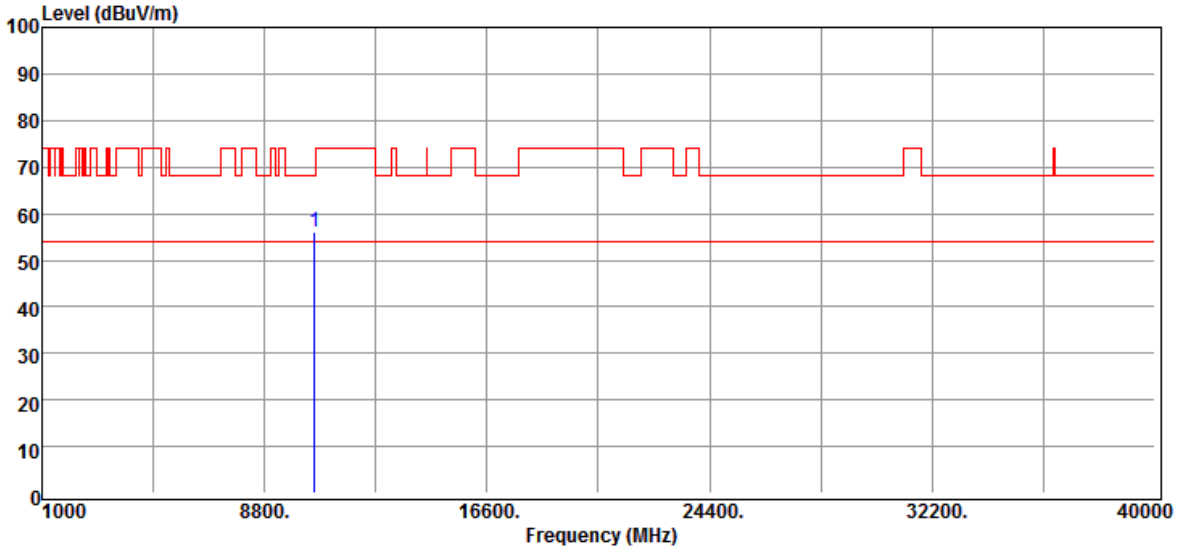
Operation Mode	:802.11n20 / Band 2	Test Date	:2018-10-22
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5280 MHz	Engineer	:Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10560.00	Peak	28.91	27.21	56.12	68.20	-12.08

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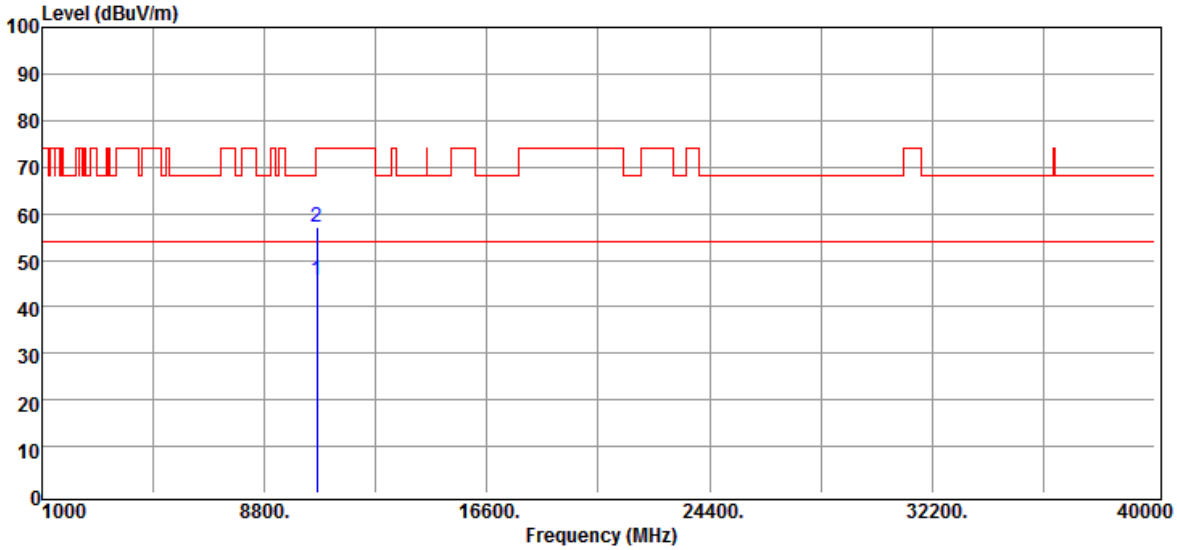
Operation Mode	:802.11n20 / Band 2	Test Date	:2018-10-22
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5320 MHz	Engineer	:Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10640.00	Average	18.36	27.20	45.56	54.00	-8.44
10640.00	Peak	30.00	27.20	57.20	74.00	-16.80

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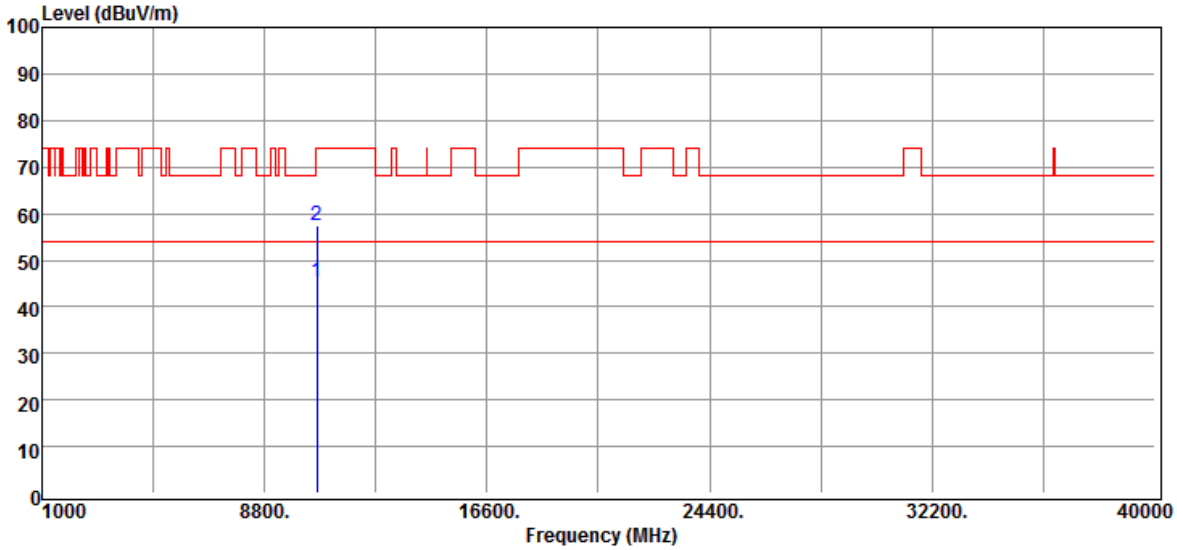
Operation Mode	:802.11n20 / Band 2	Test Date	:2018-10-22
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5320 MHz	Engineer	:Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10640.00	Average	18.28	27.20	45.48	54.00	-8.52
10640.00	Peak	30.29	27.20	57.49	74.00	-16.51

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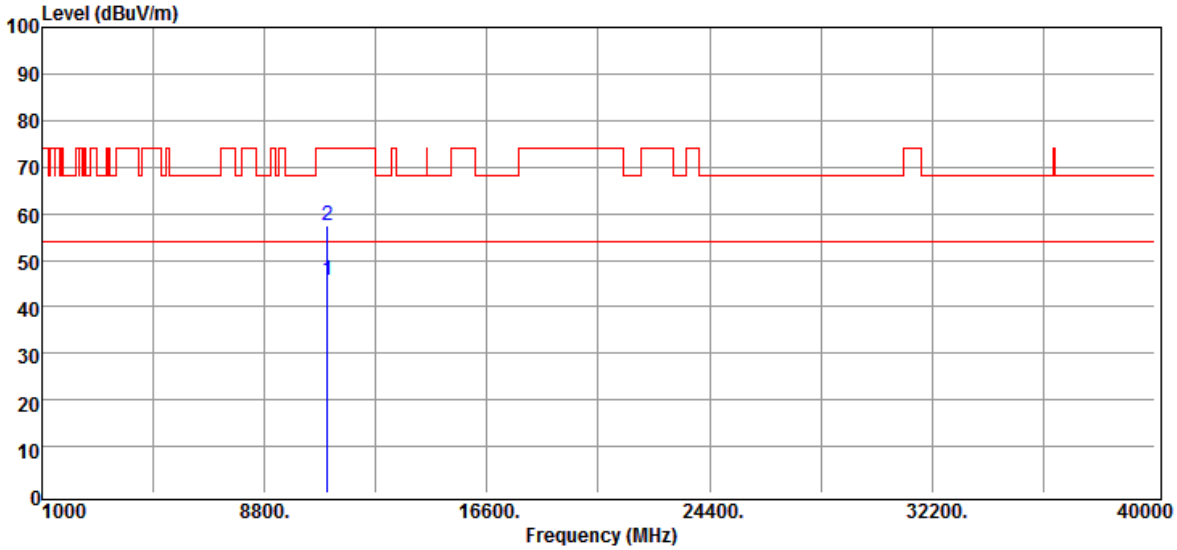
Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Mode	:802.11n20 / Band 3	Test Date	:2018-10-22
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5500 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11000.00	Average	18.59	27.09	45.68	54.00	-8.32
11000.00	Peak	30.21	27.09	57.30	74.00	-16.70

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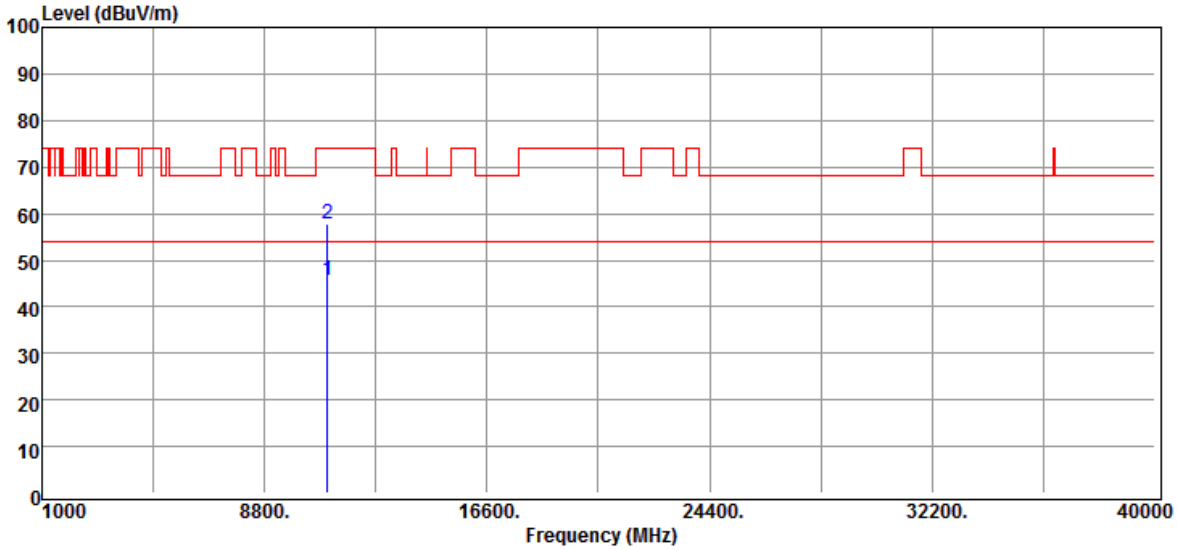
Operation Mode	:802.11n20 / Band 3	Test Date	:2018-10-22
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5500 MHz	Engineer	:Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11000.00	Average	18.50	27.09	45.59	54.00	-8.41
11000.00	Peak	30.75	27.09	57.84	74.00	-16.16

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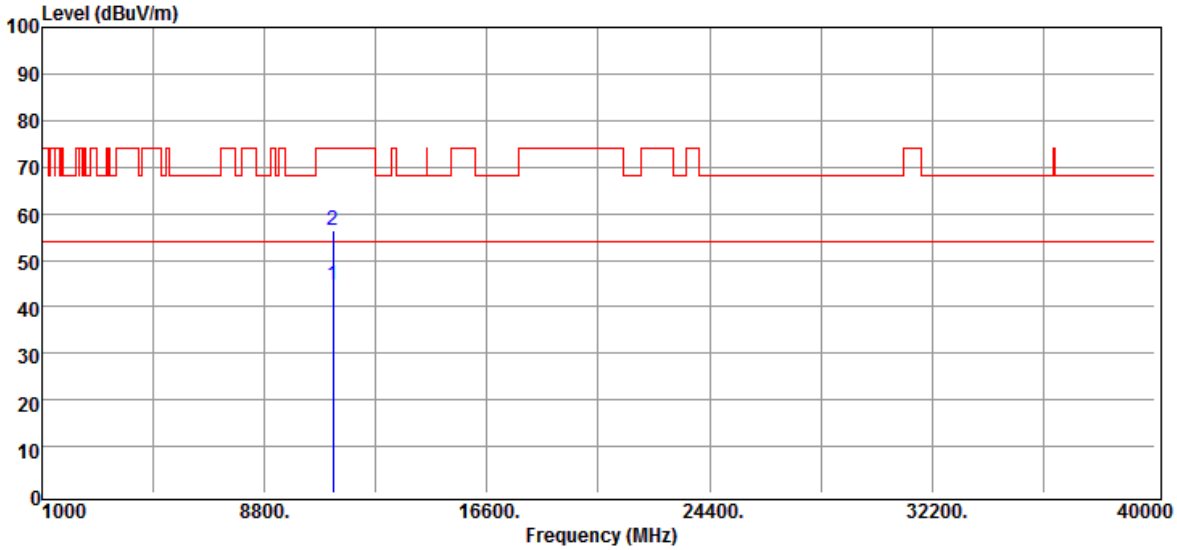
Operation Mode	:802.11n20 / Band 3	Test Date	:2018-10-22
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5600 MHz	Engineer	:Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11200.00	Average	18.23	26.57	44.80	54.00	-9.20
11200.00	Peak	29.90	26.57	56.47	74.00	-17.53

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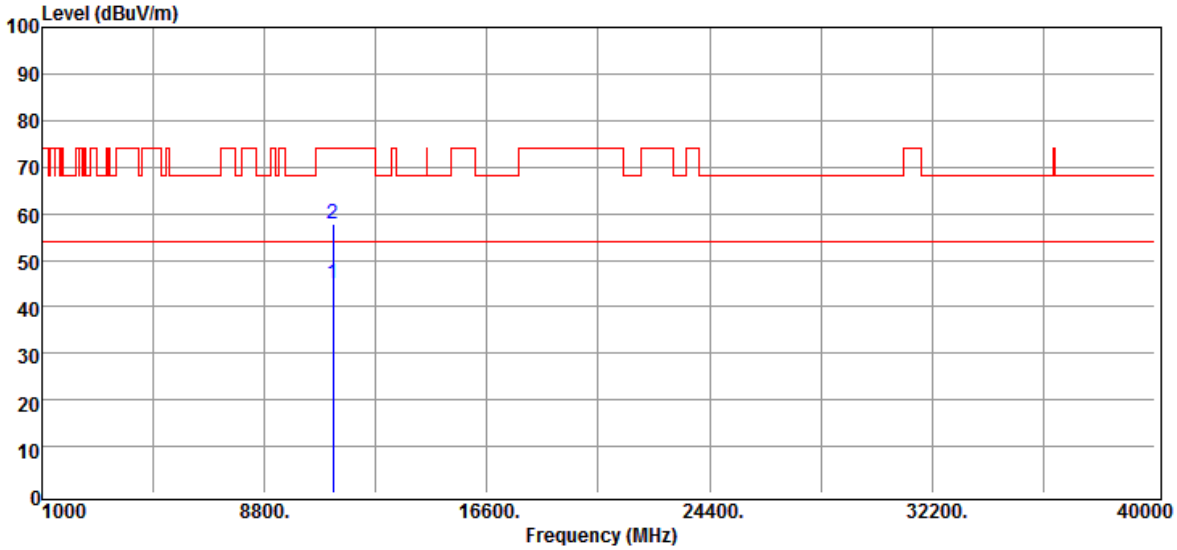
Operation Mode	:802.11n20 / Band 3	Test Date	:2018-10-22
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5600 MHz	Engineer	:Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11200.00	Average	18.24	26.57	44.81	54.00	-9.19
11200.00	Peak	31.26	26.57	57.83	74.00	-16.17

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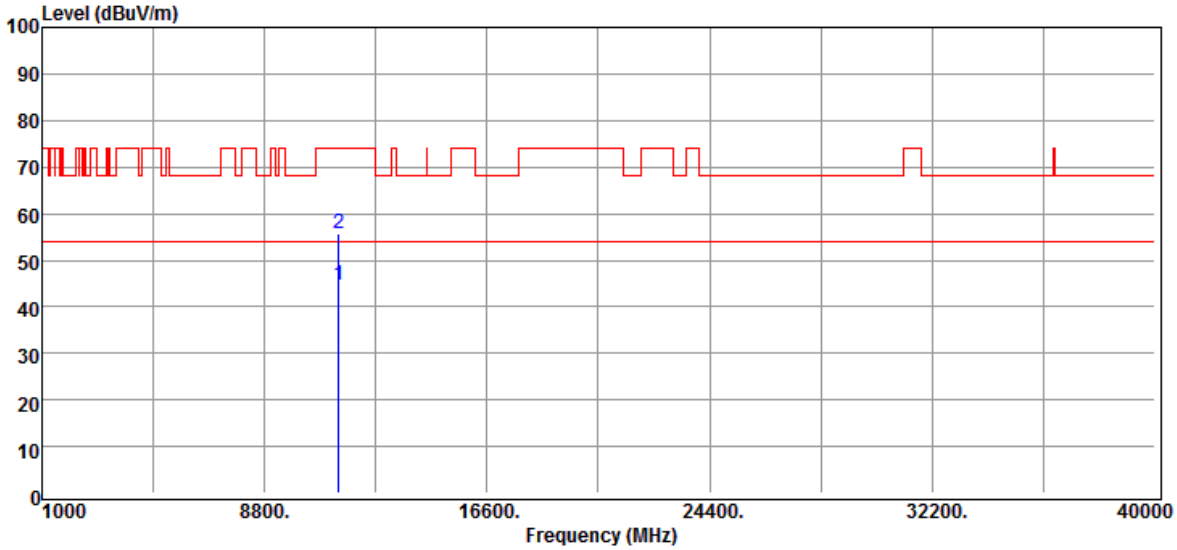
Operation Mode	:802.11n20 / Band 3	Test Date	:2018-10-22
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5700 MHz	Engineer	:Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11400.00	Average	18.57	26.07	44.64	54.00	-9.36
11400.00	Peak	29.51	26.07	55.58	74.00	-18.42

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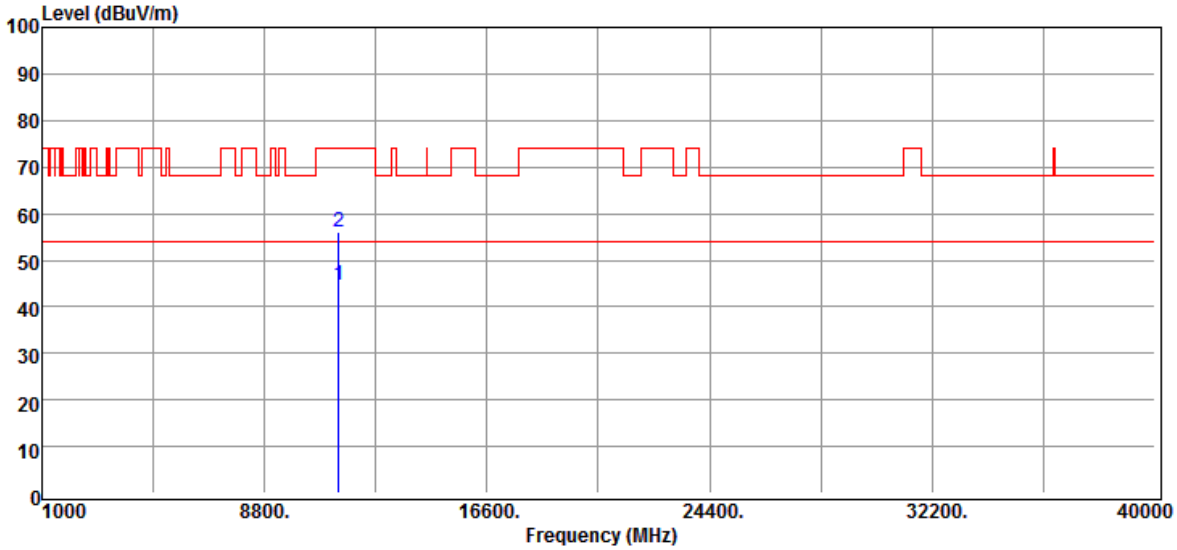
Operation Mode	:802.11n20 / Band 3	Test Date	:2018-10-22
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5700 MHz	Engineer	:Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11400.00	Average	18.44	26.07	44.51	54.00	-9.49
11400.00	Peak	29.88	26.07	55.95	74.00	-18.05

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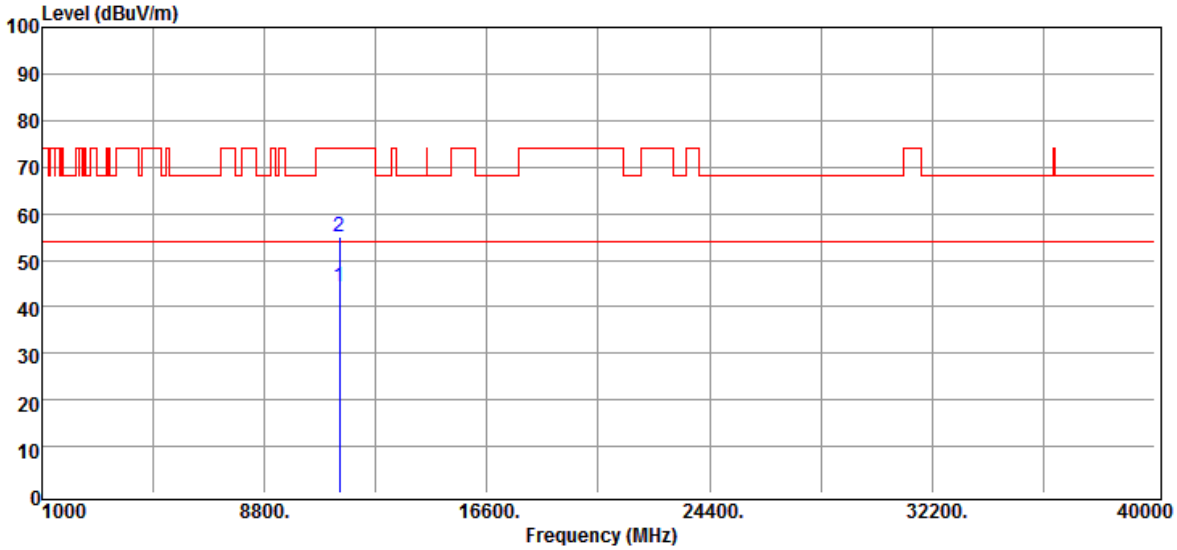
Radiated Spurious Emission Measurement Result 802.11n HT20,

Operation Mode	:802.11n20 / Band 3-4	Test Date	:2018-10-22
Test Mode	:TX CH 144	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5720 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11440.00	Average	18.33	25.96	44.29	54.00	-9.71
11440.00	Peak	29.07	25.96	55.03	74.00	-18.97

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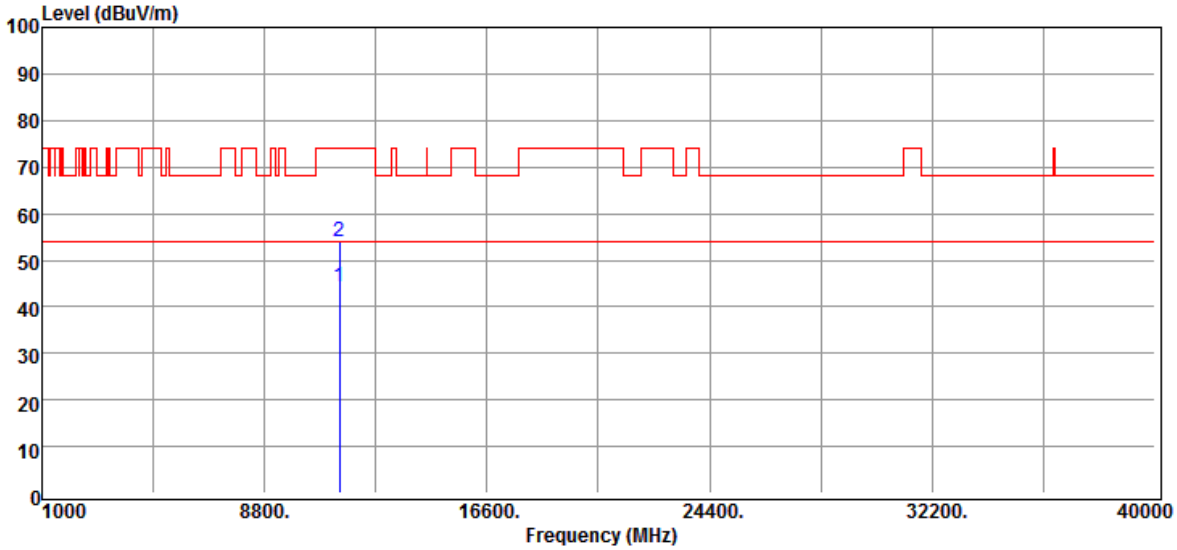
Operation Mode	:802.11n20 / Band 3-4	Test Date	:2018-10-22
Test Mode	:TX CH 144	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5720 MHz	Engineer	:Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11440.00	Average	18.47	25.96	44.43	54.00	-9.57
11440.00	Peak	28.10	25.96	54.06	74.00	-19.94

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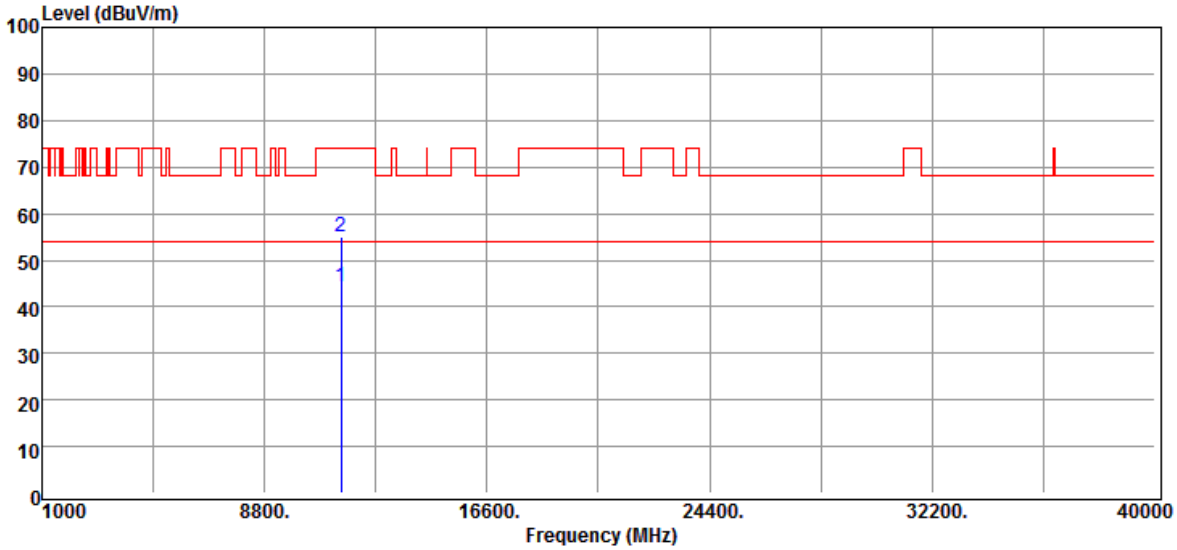
Operation Mode	:802.11n20 / Band 5	Test Date	:2018-10-22
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5745 MHz	Engineer	:Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11490.00	Average	18.39	25.83	44.22	54.00	-9.78
11490.00	Peak	29.23	25.83	55.06	74.00	-18.94

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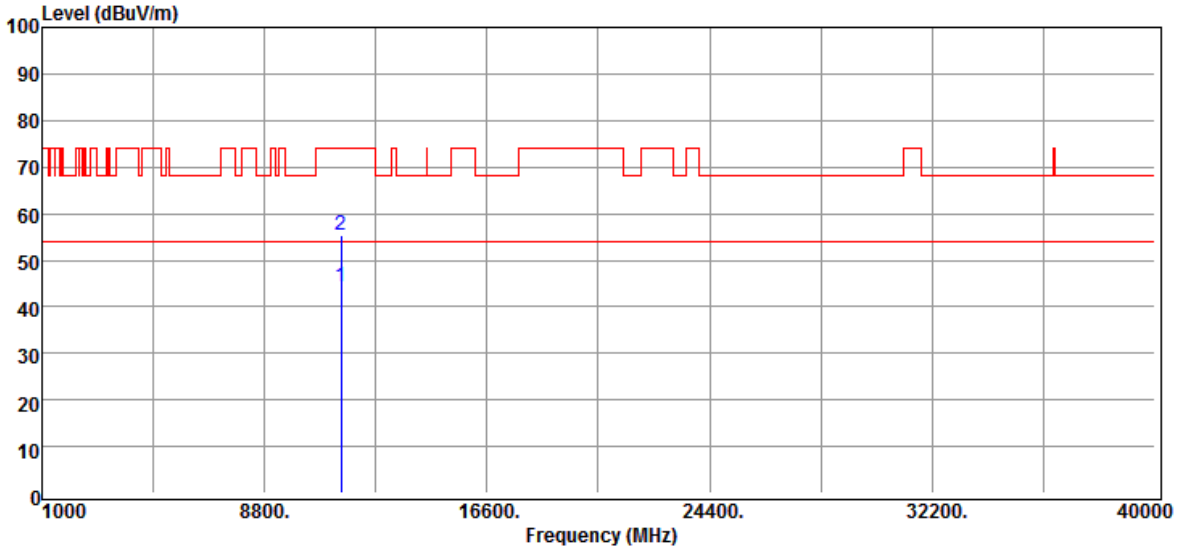
Operation Mode	:802.11n20 / Band 5	Test Date	:2018-10-22
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5745 MHz	Engineer	:Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11490.00	Average	18.46	25.83	44.29	54.00	-9.71
11490.00	Peak	29.58	25.83	55.41	74.00	-18.59

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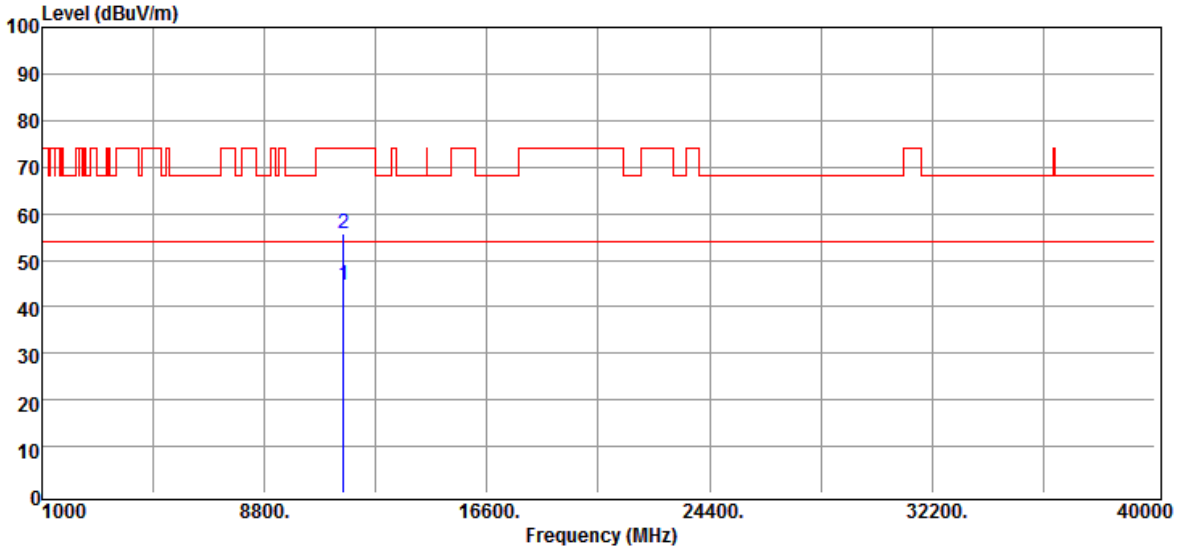
Operation Mode	:802.11n20 / Band 5	Test Date	:2018-10-22
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5785 MHz	Engineer	:Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11570.00	Average	18.64	25.87	44.51	54.00	-9.49
11570.00	Peak	29.87	25.87	55.74	74.00	-18.26

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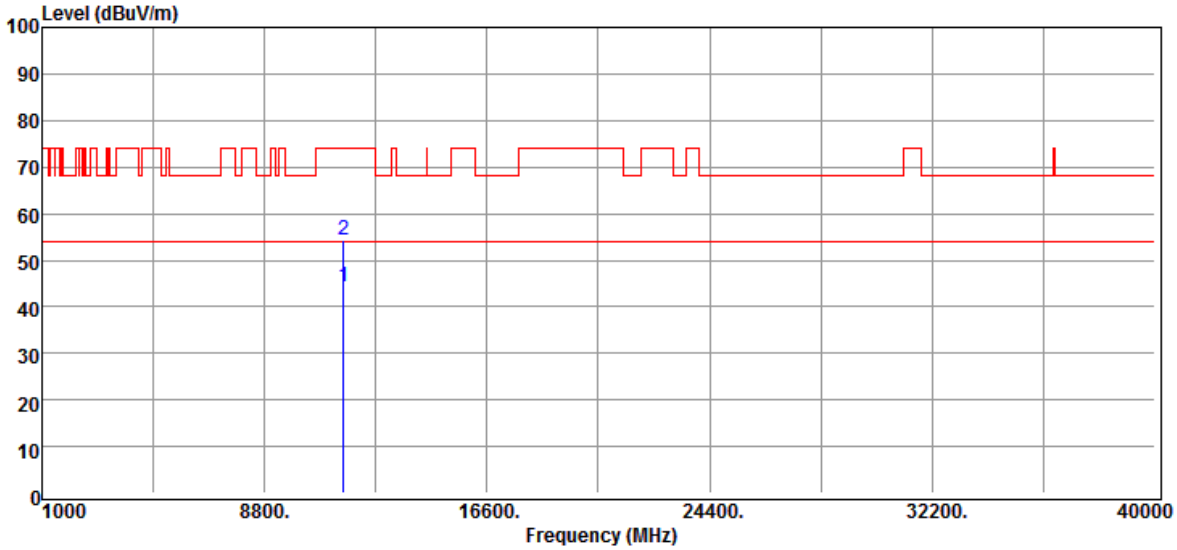
Operation Mode	:802.11n20 / Band 5	Test Date	:2018-10-22
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5785 MHz	Engineer	:Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11570.00	Average	18.59	25.87	44.46	54.00	-9.54
11570.00	Peak	28.58	25.87	54.45	74.00	-19.55

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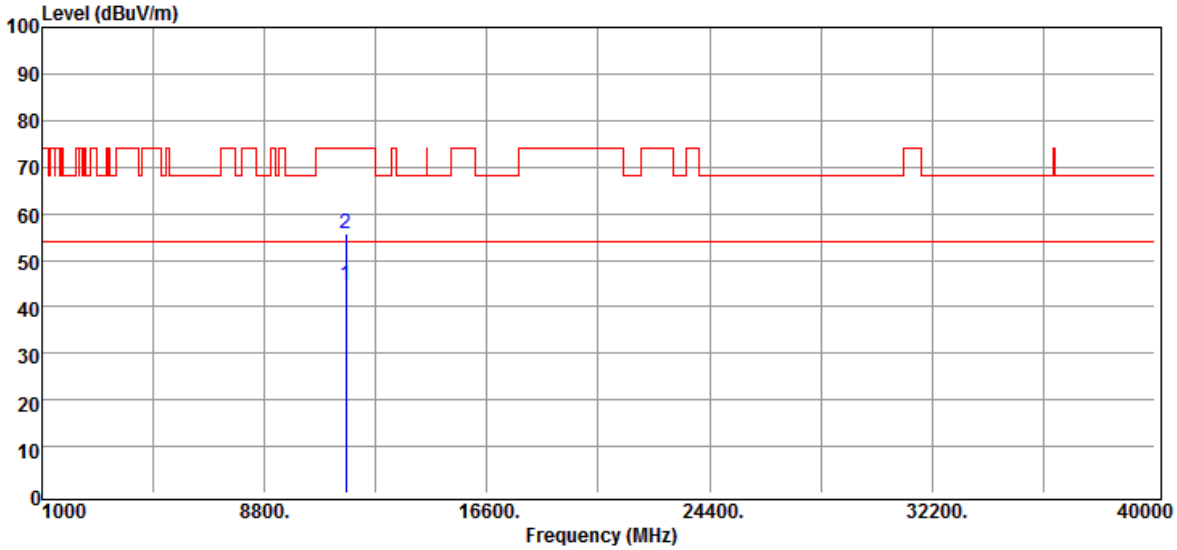
Operation Mode	:802.11n20 / Band 5	Test Date	:2018-10-22
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5825 MHz	Engineer	:Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11650.00	Average	18.68	25.94	44.62	54.00	-9.38
11650.00	Peak	29.75	25.94	55.69	74.00	-18.31

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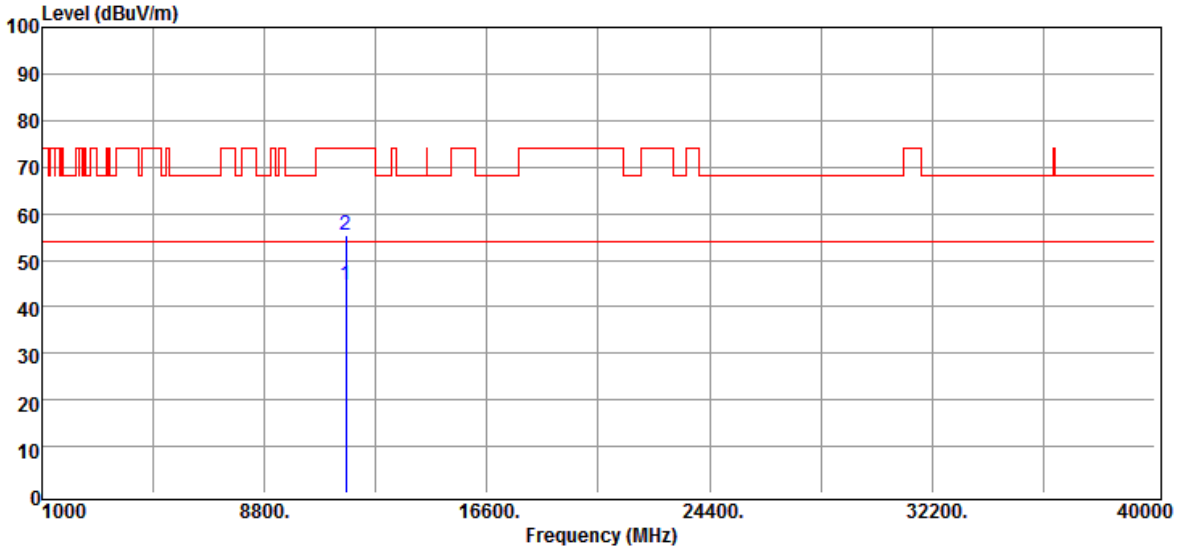
Operation Mode	:802.11n20 / Band 5	Test Date	:2018-10-22
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5825 MHz	Engineer	:Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11650.00	Average	18.77	25.94	44.71	54.00	-9.29
11650.00	Peak	29.59	25.94	55.53	74.00	-18.47

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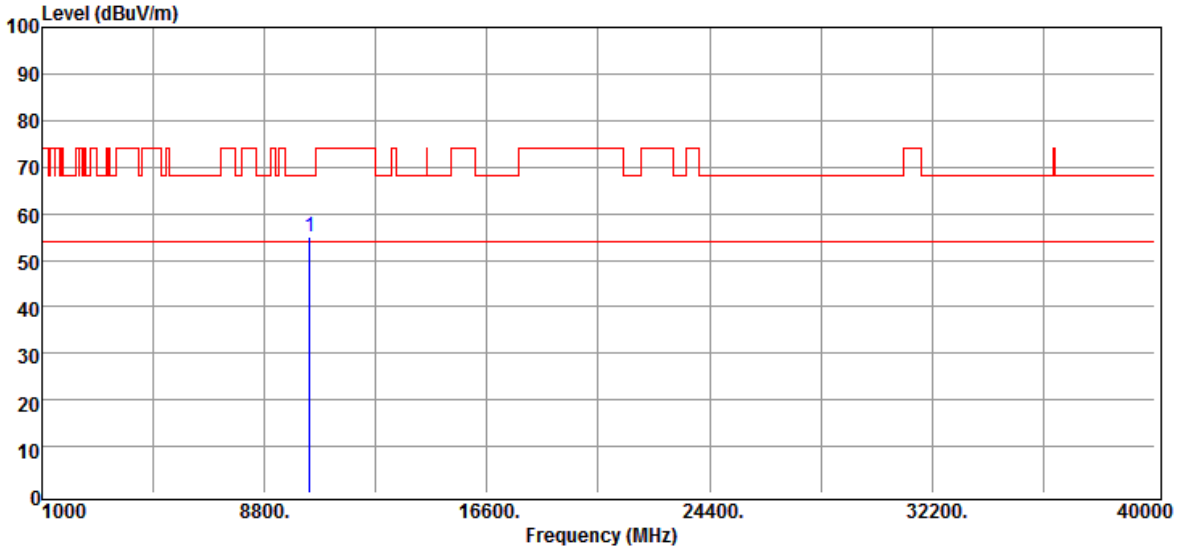
Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Mode	:802.11n40 / Band 1	Test Date	:2018-10-22
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5190 MHz	Engineer	:Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10380.00	Peak	28.23	26.69	54.92	68.20	-13.28

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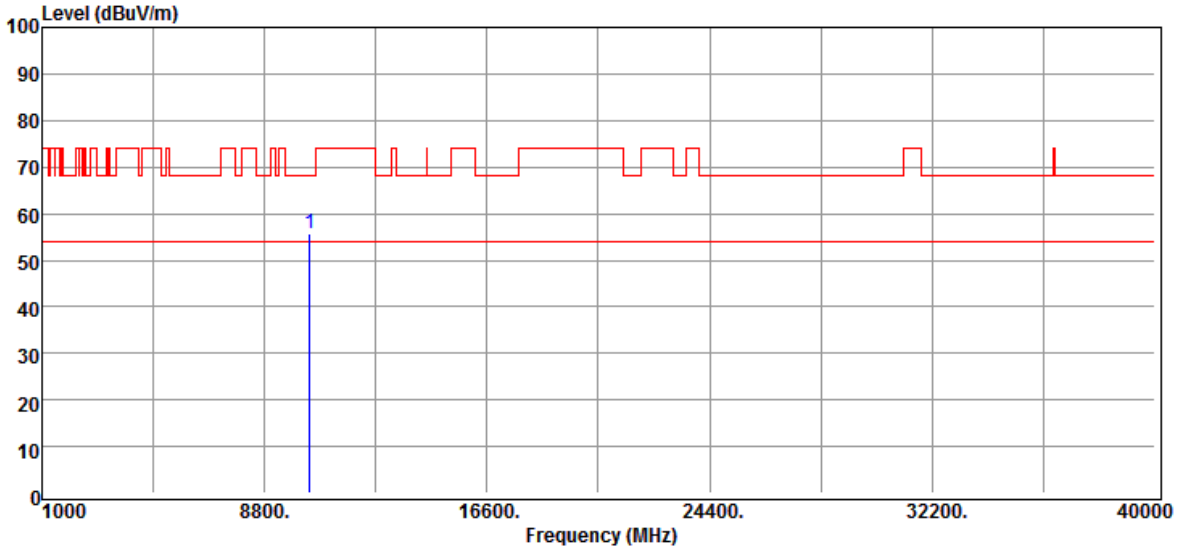
Operation Mode	:802.11n40 / Band 1	Test Date	:2018-10-22
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5190 MHz	Engineer	:Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10380.00	Peak	29.14	26.69	55.83	68.20	-12.37

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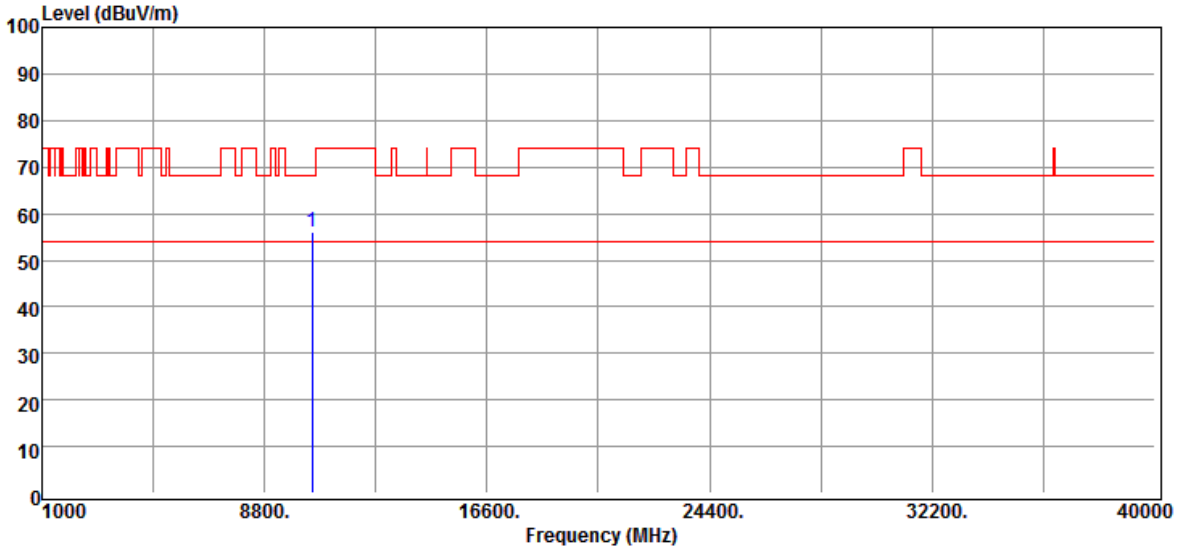
Operation Mode	:802.11n40 / Band 1	Test Date	:2018-10-22
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5230 MHz	Engineer	:Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10460.00	Peak	28.86	27.06	55.92	68.20	-12.28

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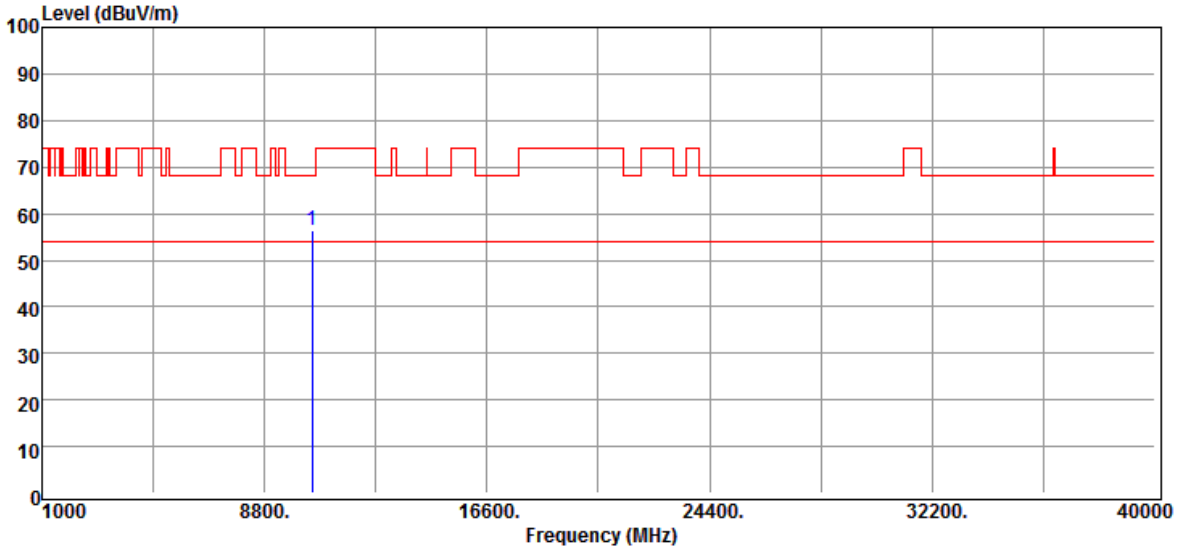
Operation Mode	:802.11n40 / Band 1	Test Date	:2018-10-22
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5230 MHz	Engineer	:Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10460.00	Peak	29.40	27.06	56.46	68.20	-11.74

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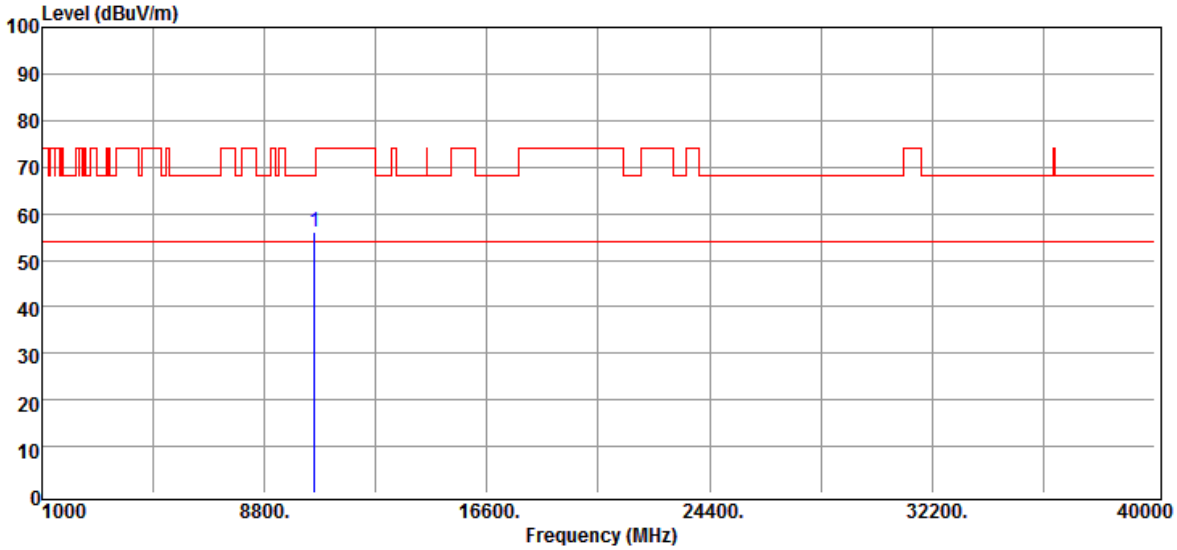
Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

Operation Mode	:802.11n40 / Band 2	Test Date	:2018-10-22
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5270 MHz	Engineer	:Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10540.00	Peak	28.89	27.23	56.12	68.20	-12.08

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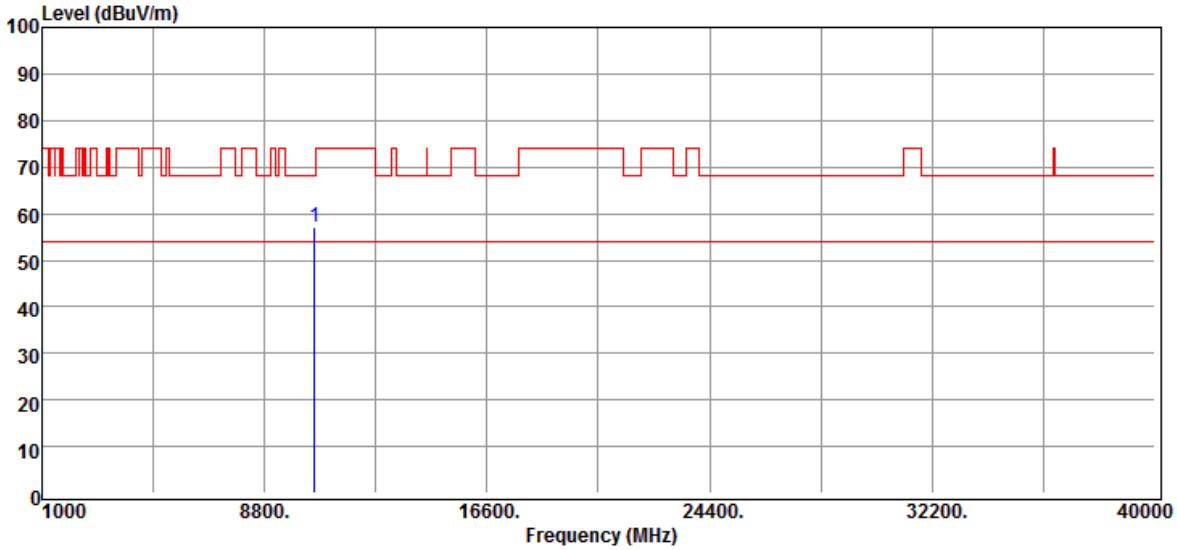
Operation Mode	:802.11n40 / Band 2	Test Date	:2018-10-22
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5270 MHz	Engineer	:Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10540.00	Peak	29.83	27.23	57.06	68.20	-11.14

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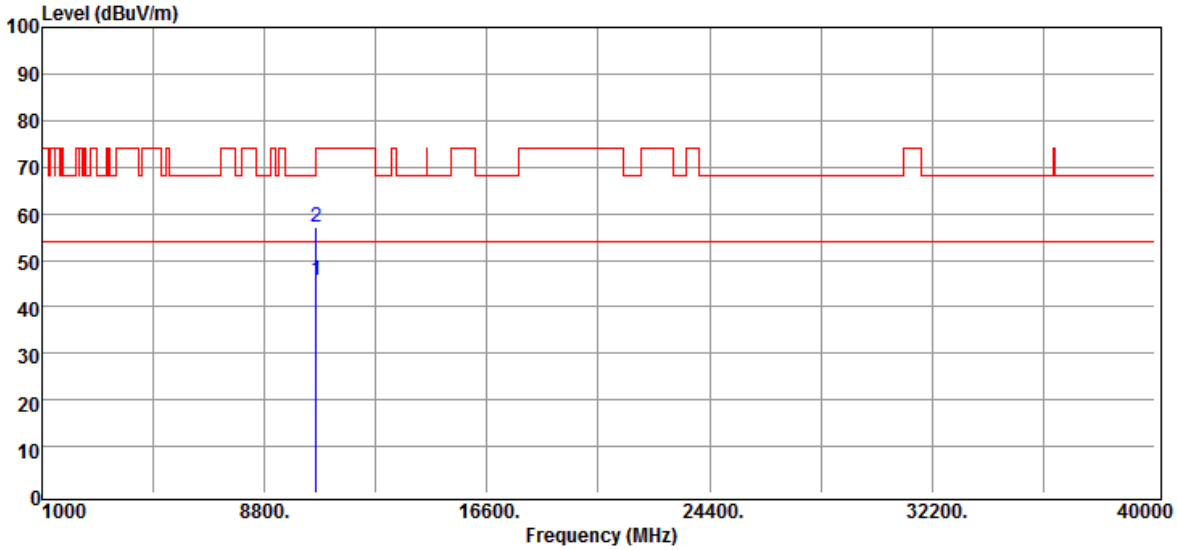
Operation Mode	:802.11n40 / Band 2	Test Date	:2018-10-22
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5310 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10620.00	Average	18.34	27.20	45.54	54.00	-8.46
10620.00	Peak	29.75	27.20	56.95	74.00	-17.05

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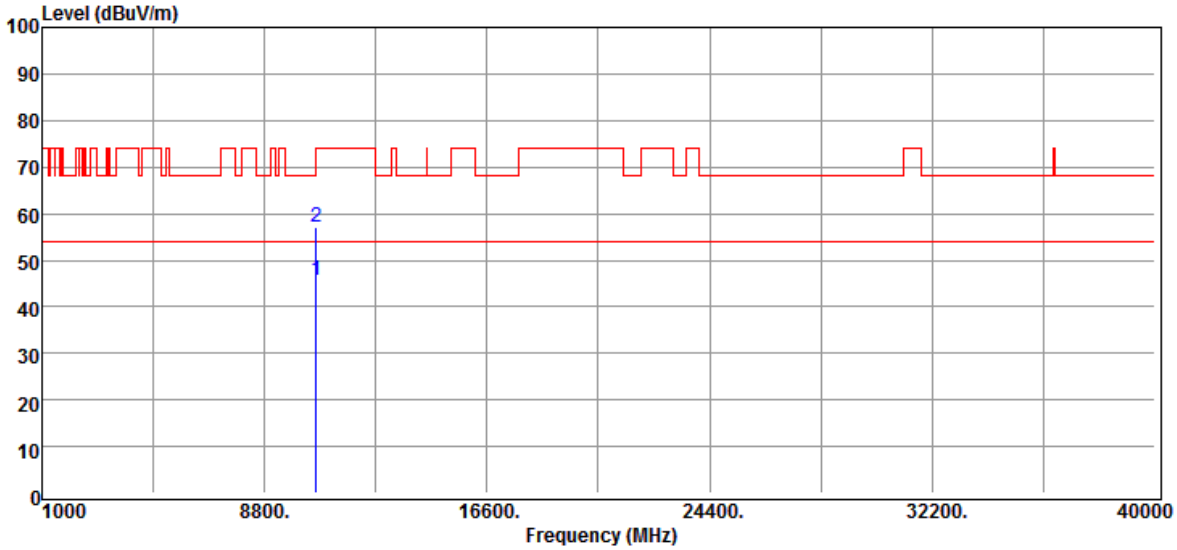
Operation Mode	:802.11n40 / Band 2	Test Date	:2018-10-22
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5310 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10620.00	Average	18.45	27.20	45.65	54.00	-8.35
10620.00	Peak	29.78	27.20	56.98	74.00	-17.02

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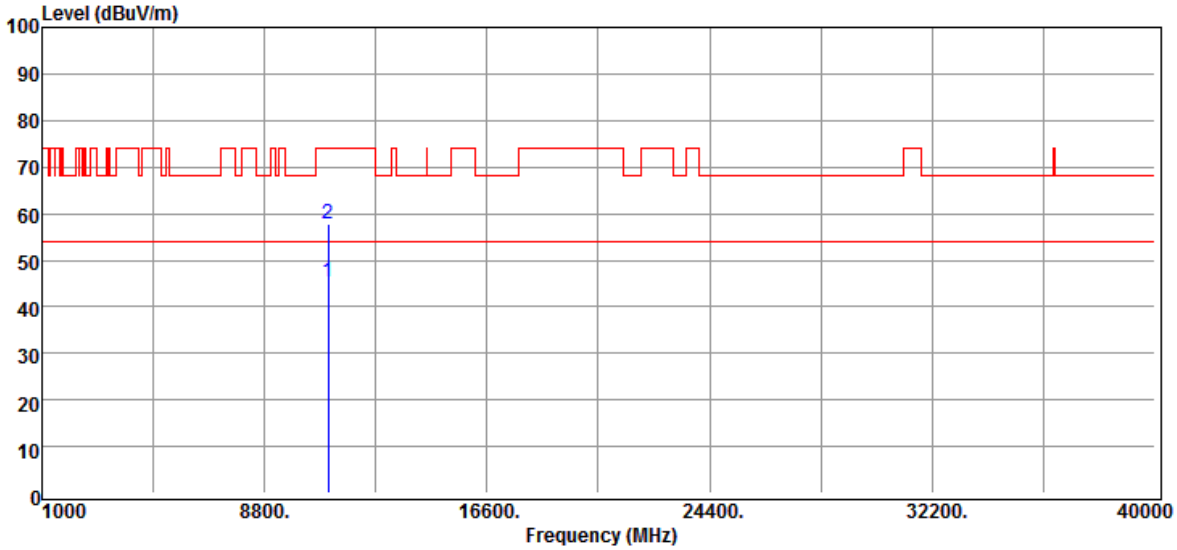
Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Mode	:802.11n40 / Band 3	Test Date	:2018-10-23
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5510 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11020.00	Average	18.24	27.04	45.28	54.00	-8.72
11020.00	Peak	30.69	27.04	57.73	74.00	-16.27

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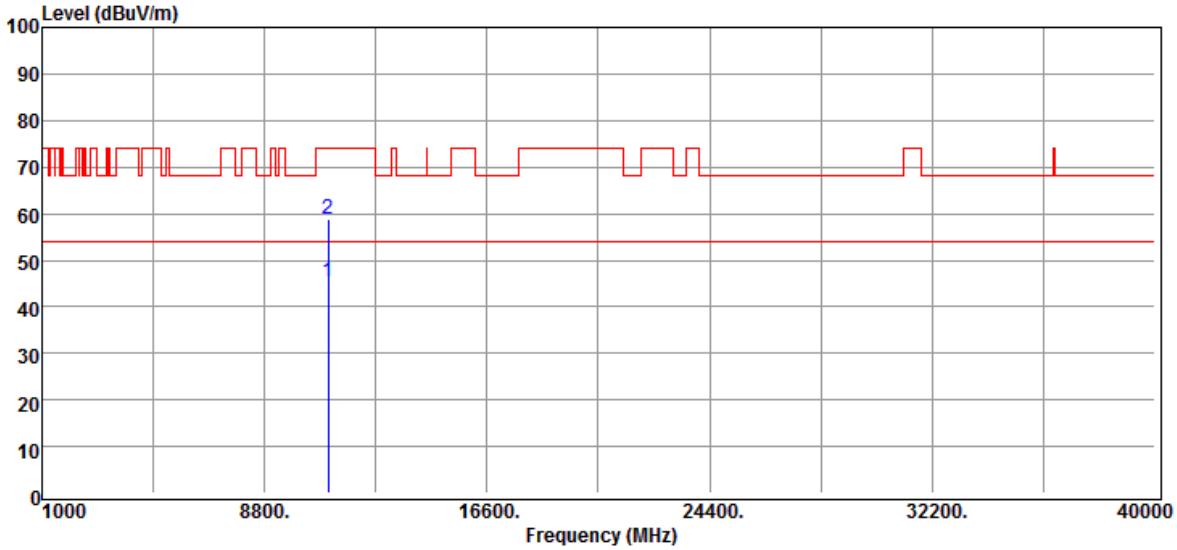
Operation Mode	:802.11n40 / Band 3	Test Date	:2018-10-23
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5510 MHz	Engineer	:Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11020.00	Average	18.33	27.04	45.37	54.00	-8.63
11020.00	Peak	31.65	27.04	58.69	74.00	-15.31

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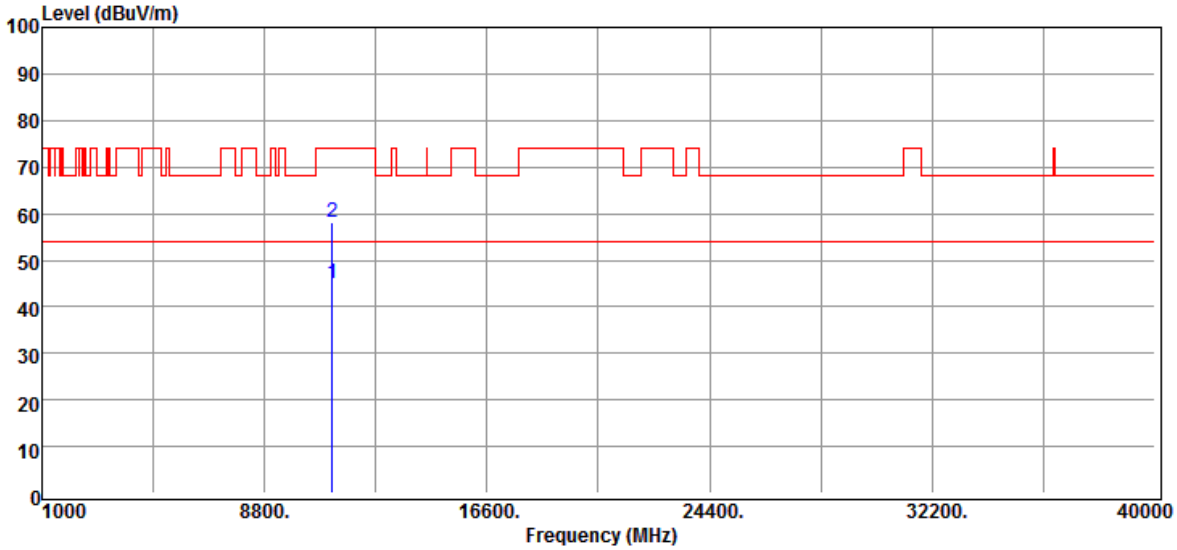
Operation Mode	:802.11n40 / Band 3	Test Date	:2018-10-23
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5590 MHz	Engineer	:Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11180.00	Average	18.41	26.62	45.03	54.00	-8.97
11180.00	Peak	31.47	26.62	58.09	74.00	-15.91

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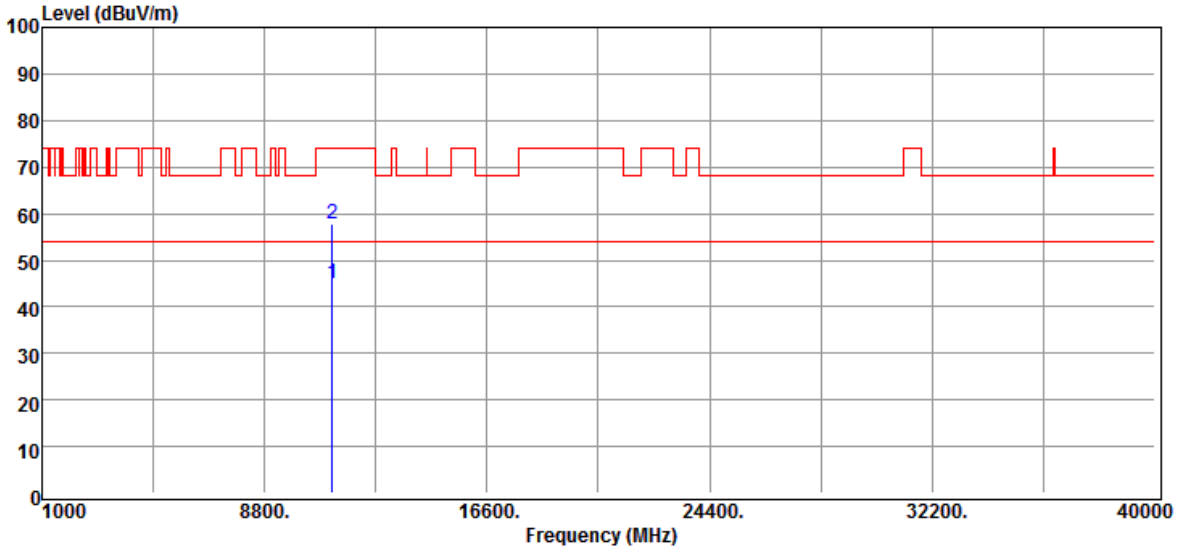
Operation Mode	:802.11n40 / Band 3	Test Date	:2018-10-23
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5590 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11180.00	Average	18.35	26.62	44.97	54.00	-9.03
11180.00	Peak	31.21	26.62	57.83	74.00	-16.17

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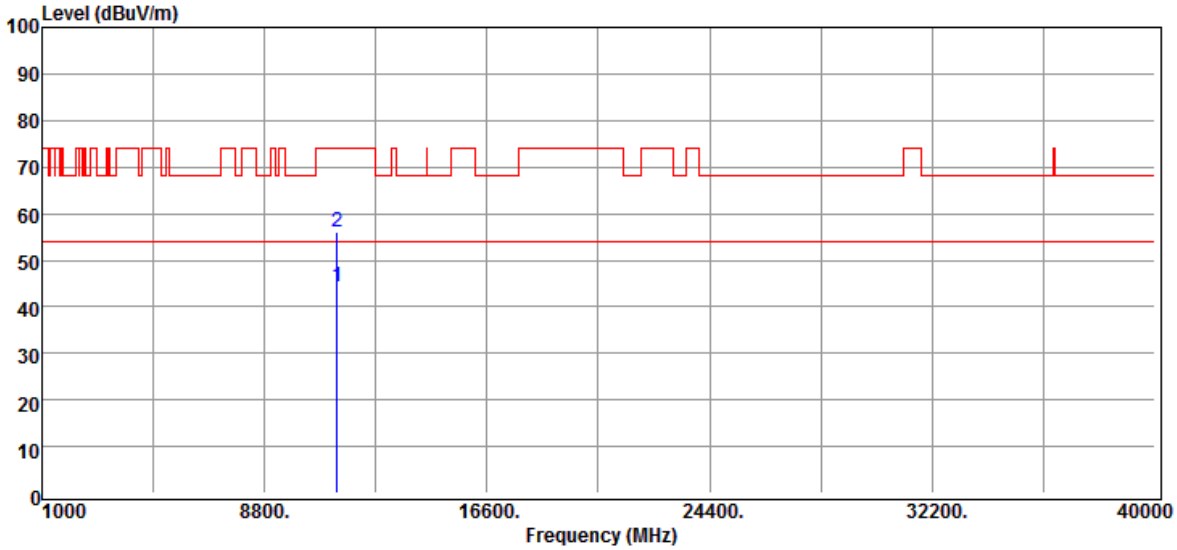
Operation Mode	:802.11n40 / Band 3	Test Date	:2018-10-23
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5670 MHz	Engineer	:Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11340.00	Average	18.15	26.21	44.36	54.00	-9.64
11340.00	Peak	29.81	26.21	56.02	74.00	-17.98

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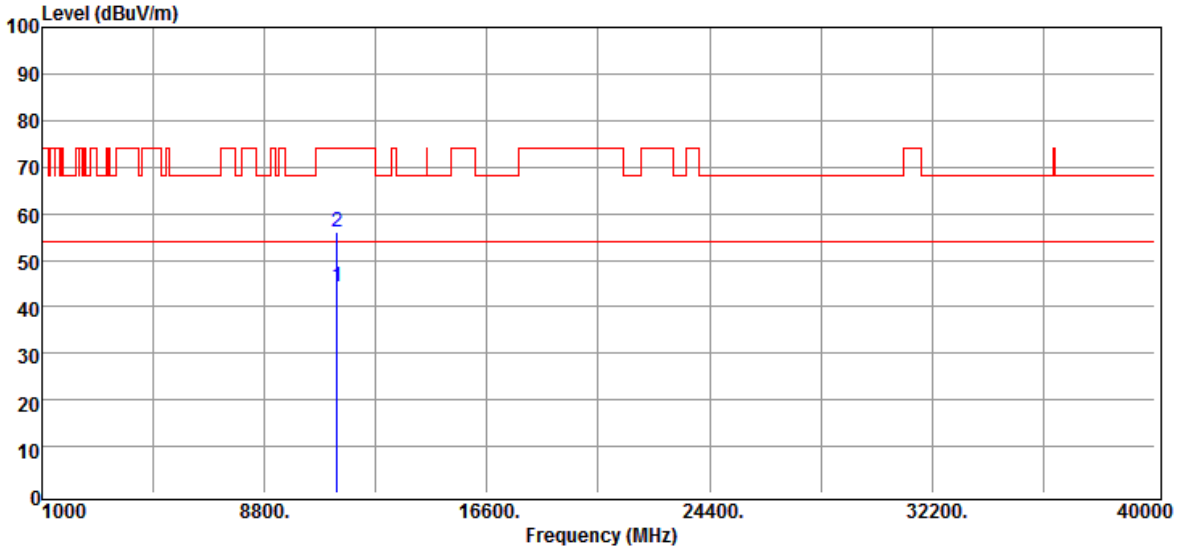
Operation Mode	:802.11n40 / Band 3	Test Date	:2018-10-23
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5670 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11340.00	Average	18.09	26.21	44.30	54.00	-9.70
11340.00	Peak	29.68	26.21	55.89	74.00	-18.11

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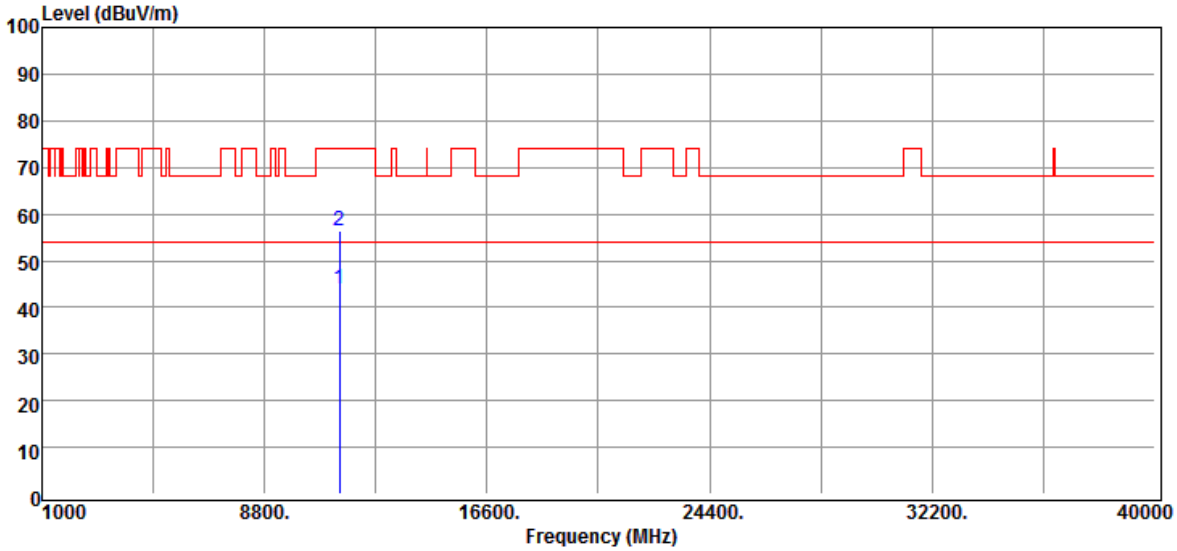
Radiated Spurious Emission Measurement Result 802.11n HT40,

Operation Mode	:802.11n40 / Band 3-4	Test Date	:2018-10-23
Test Mode	:TX CH 142	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5710 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11420.00	Average	18.02	26.01	44.03	54.00	-9.97
11420.00	Peak	30.27	26.01	56.28	74.00	-17.72

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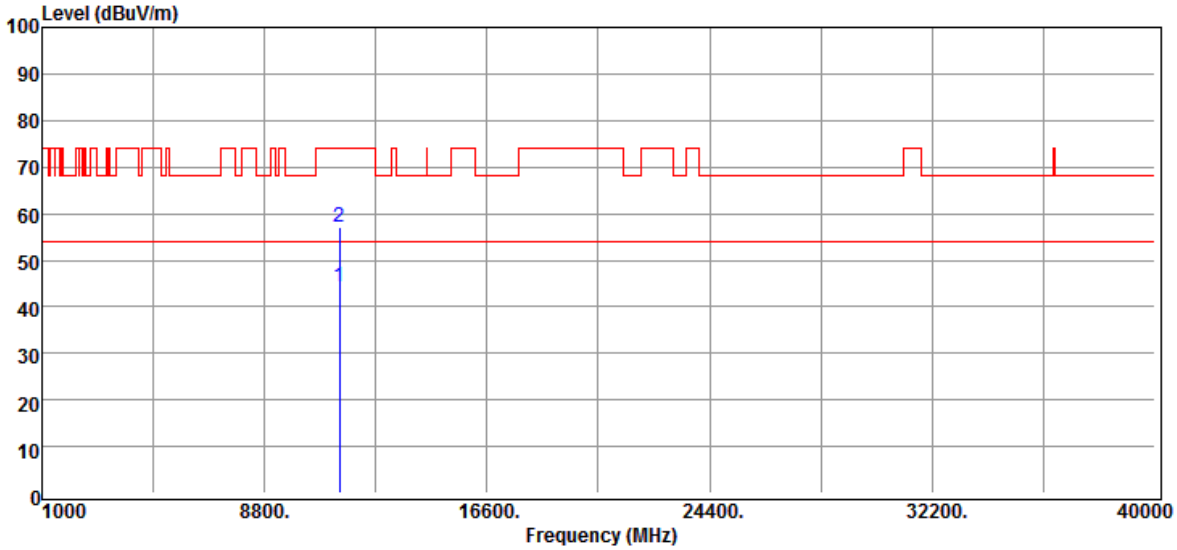
Operation Mode	:802.11n40 / Band 3-4	Test Date	:2018-10-23
Test Mode	:TX CH 142	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5710 MHz	Engineer	:Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11420.00	Average	18.11	26.01	44.12	54.00	-9.88
11420.00	Peak	30.93	26.01	56.94	74.00	-17.06

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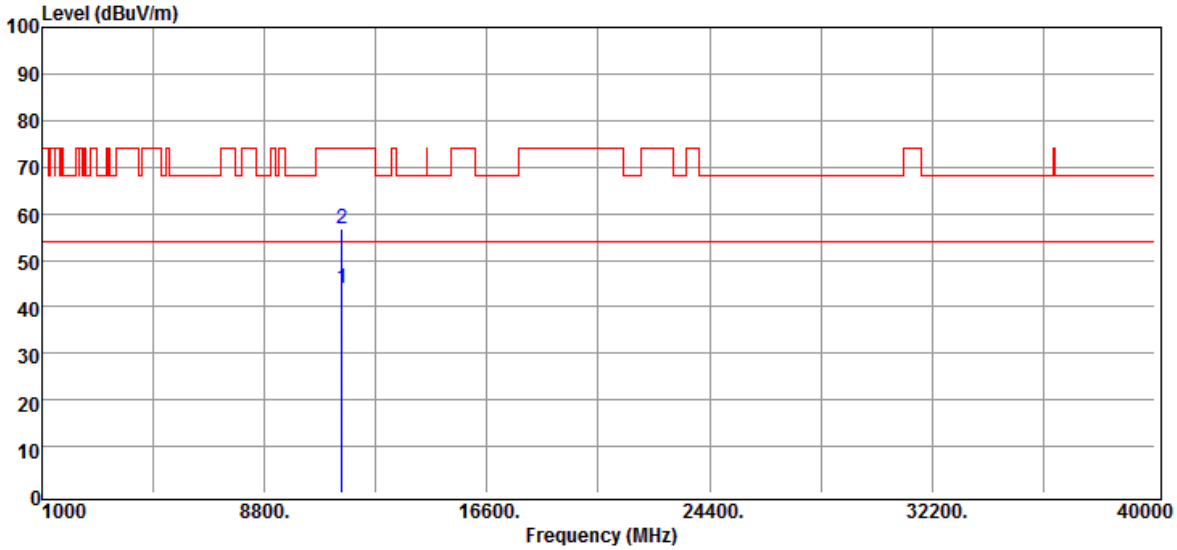
Operation Mode	:802.11n40 / Band 4	Test Date	:2018-10-23
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5755 MHz	Engineer	:Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11510.00	Average	18.19	25.82	44.01	54.00	-9.99
11510.00	Peak	30.99	25.82	56.81	74.00	-17.19

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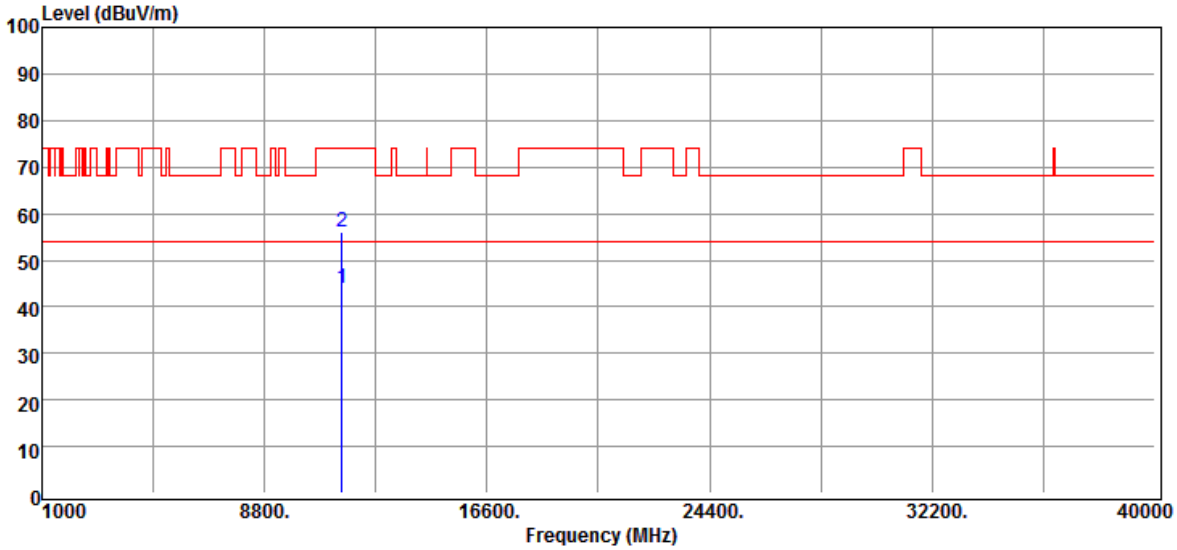
Operation Mode	:802.11n40 / Band 4	Test Date	:2018-10-23
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5755 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11510.00	Average	18.13	25.82	43.95	54.00	-10.05
11510.00	Peak	30.41	25.82	56.23	74.00	-17.77

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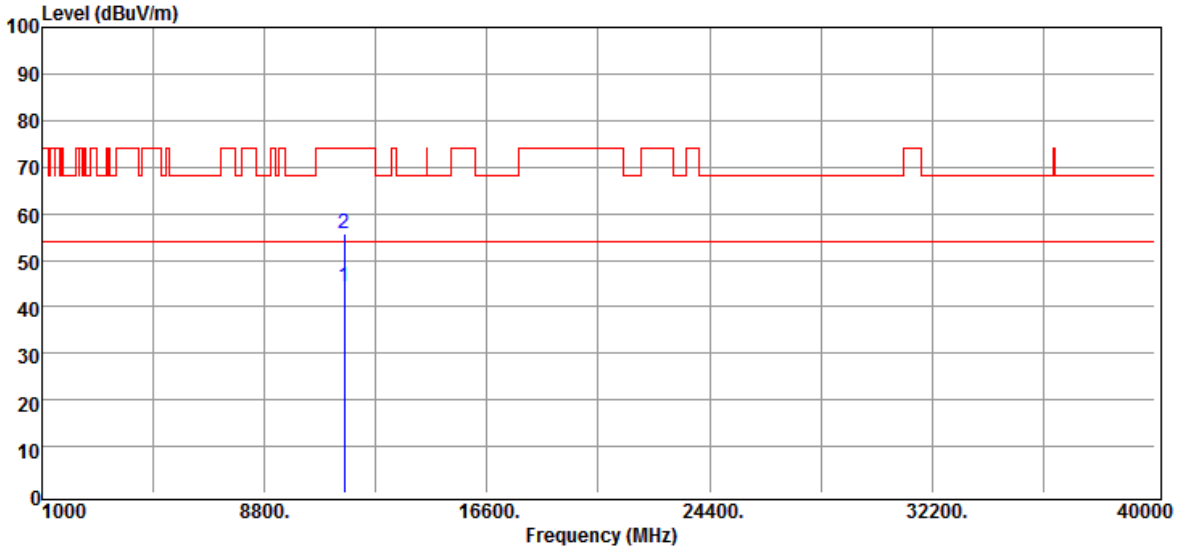
Operation Mode	:802.11n40 / Band 4	Test Date	:2018-10-23
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5795 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11590.00	Average	18.47	25.89	44.36	54.00	-9.64
11590.00	Peak	29.96	25.89	55.85	74.00	-18.15

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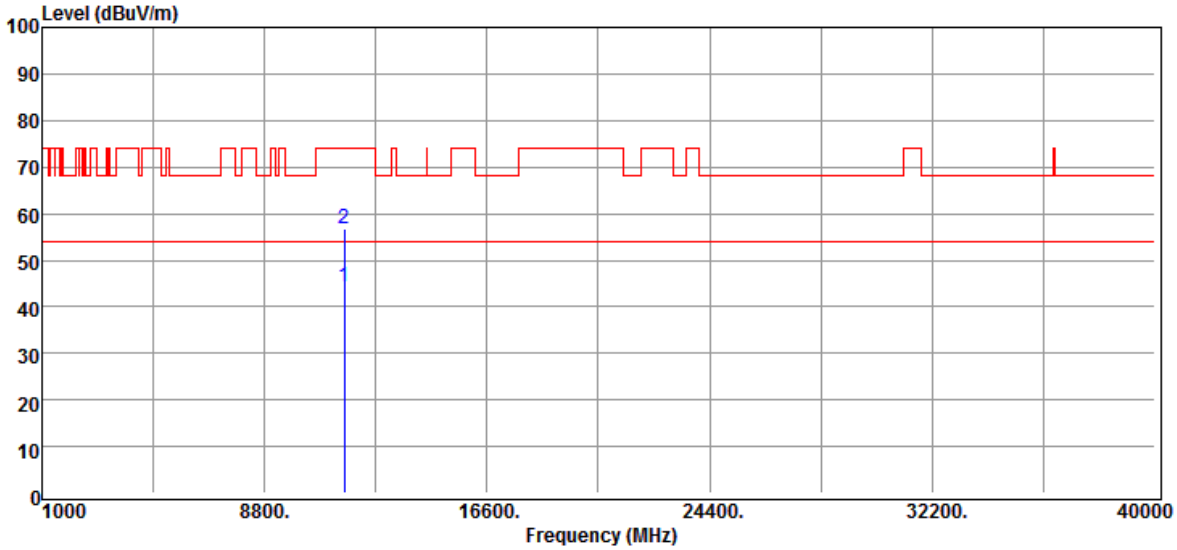
Operation Mode	:802.11n40 / Band 4	Test Date	:2018-10-23
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5795 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11590.00	Average	18.28	25.89	44.17	54.00	-9.83
11590.00	Peak	30.80	25.89	56.69	74.00	-17.31

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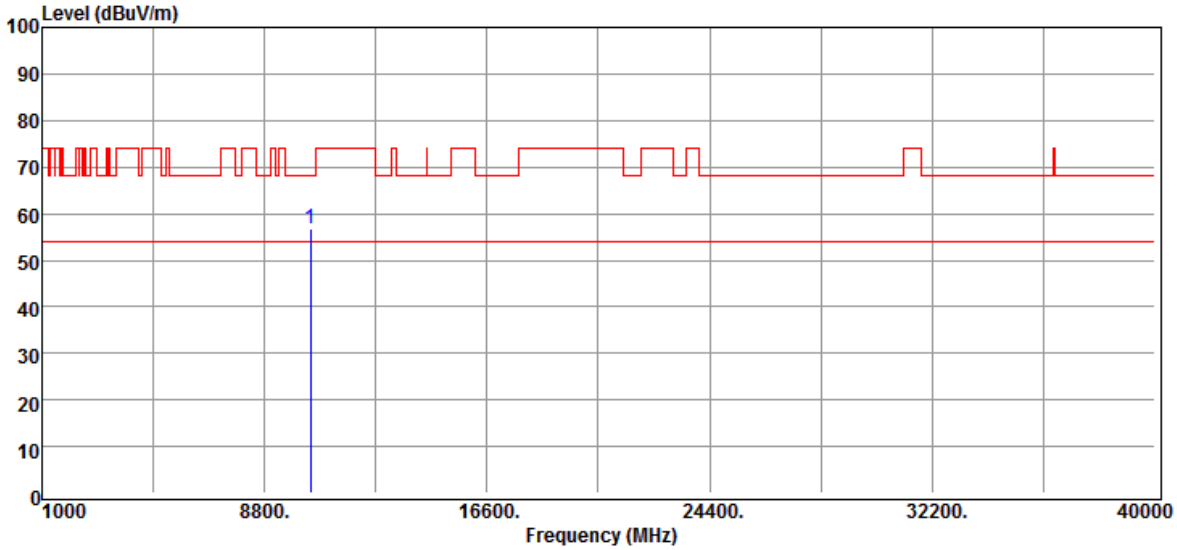
Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Mode	:802.11ac80 / Band 1	Test Date	:2018-10-23
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5210 MHz	Engineer	:Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10420.00	Peak	29.84	26.87	56.71	68.20	-11.49

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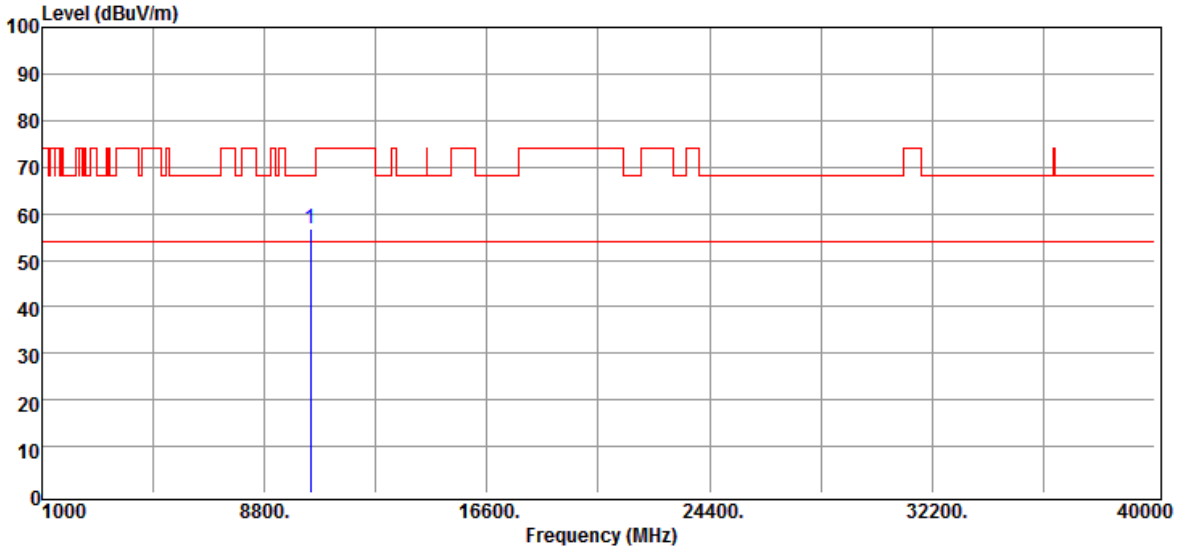
Operation Mode	:802.11ac80 / Band 1	Test Date	:2018-10-23
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5210 MHz	Engineer	:Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10420.00	Peak	30.01	26.87	56.88	68.20	-11.32

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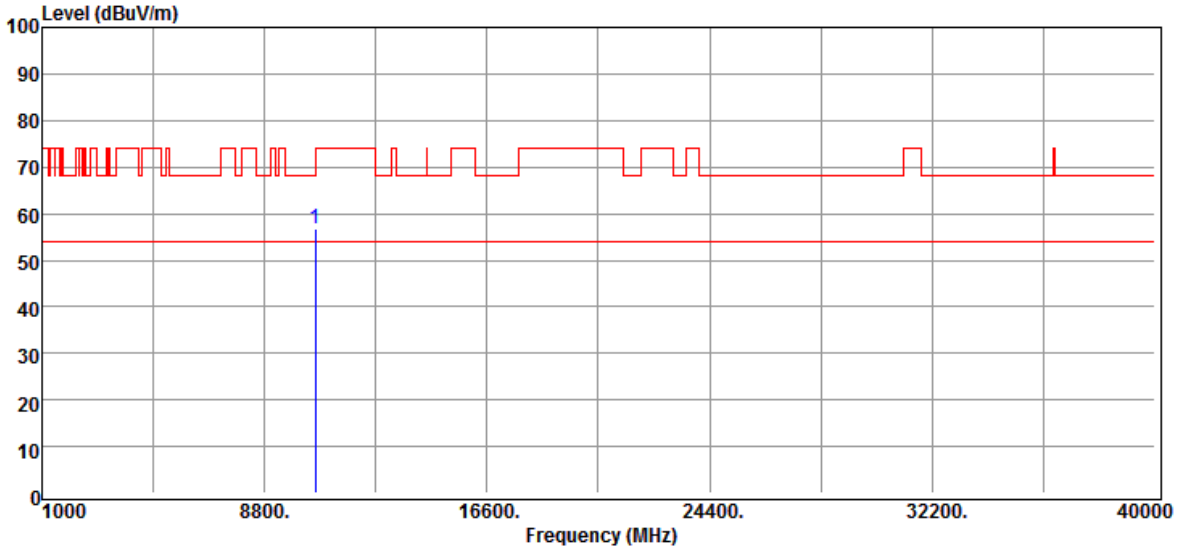
Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

Operation Mode	:802.11ac80 / Band 2	Test Date	:2018-10-23
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5290 MHz	Engineer	:Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10580.00	Peak	29.70	27.22	56.92	68.20	-11.28

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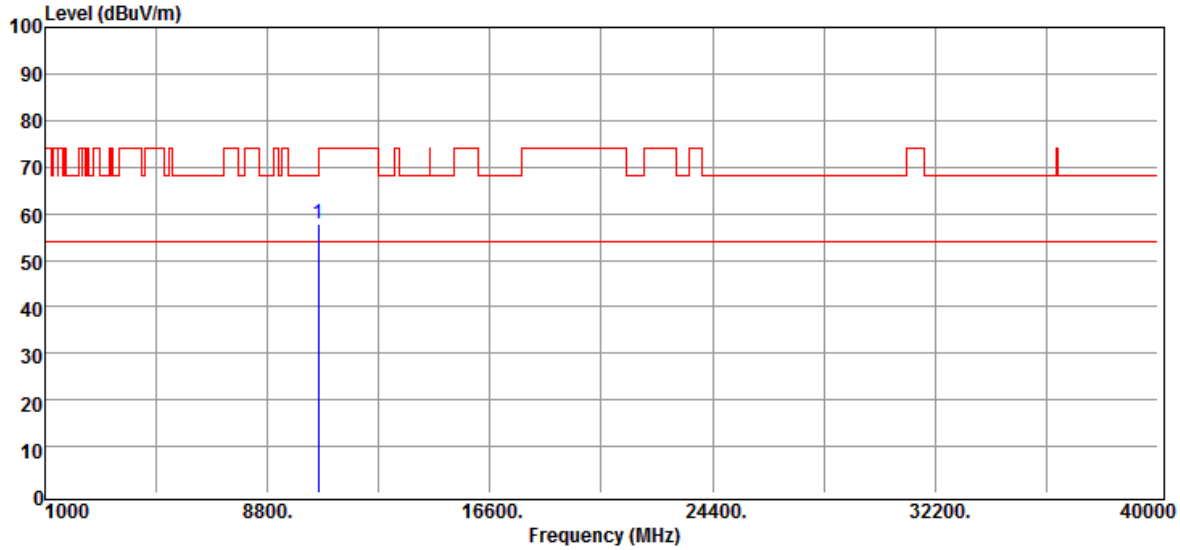
Operation Mode	:802.11ac80 / Band 2	Test Date	:2018-10-23
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5290 MHz	Engineer	:Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10580.00	Peak	30.57	27.22	57.79	68.20	-10.41

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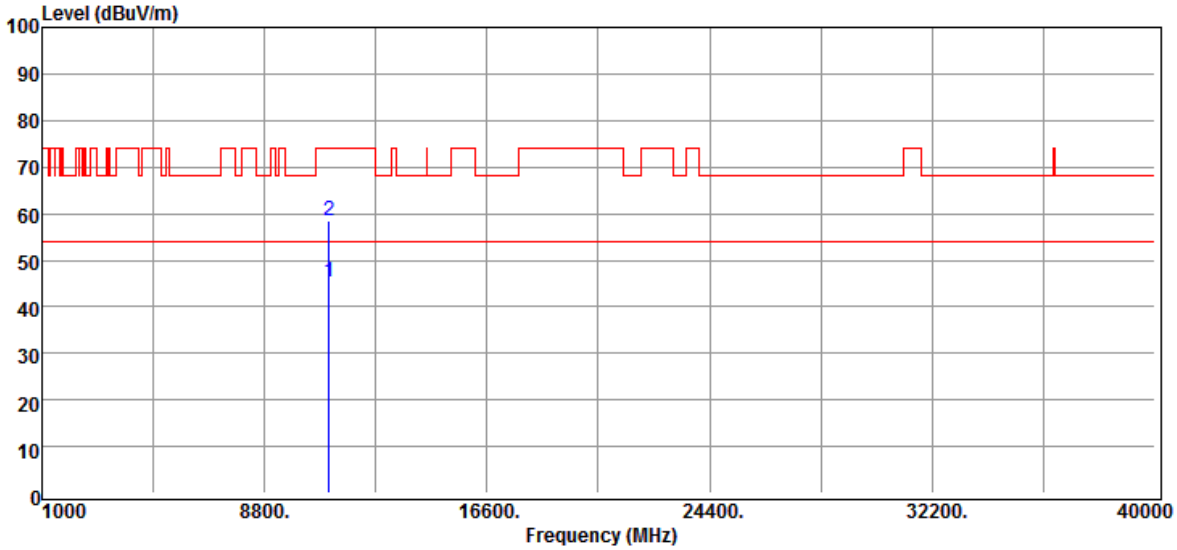
Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

Operation Mode	:802.11ac80 / Band 3	Test Date	:2018-10-23
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5530 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11060.00	Average	18.33	26.94	45.27	54.00	-8.73
11060.00	Peak	31.42	26.94	58.36	74.00	-15.64

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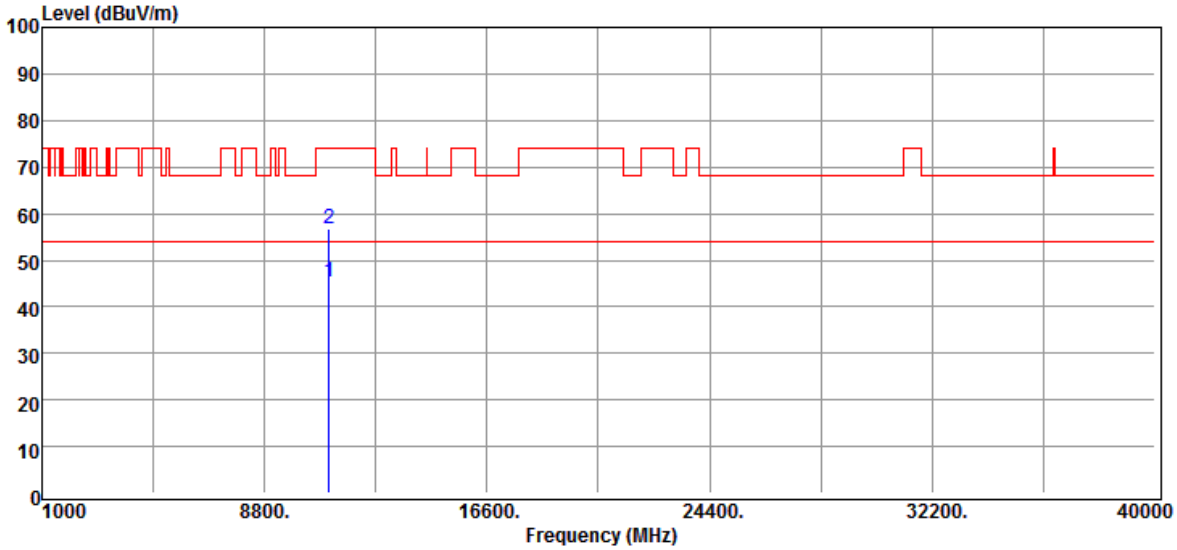
Operation Mode	:802.11ac80 / Band 3	Test Date	:2018-10-23
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5530 MHz	Engineer	:Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11060.00	Average	18.43	26.94	45.37	54.00	-8.63
11060.00	Peak	29.94	26.94	56.88	74.00	-17.12

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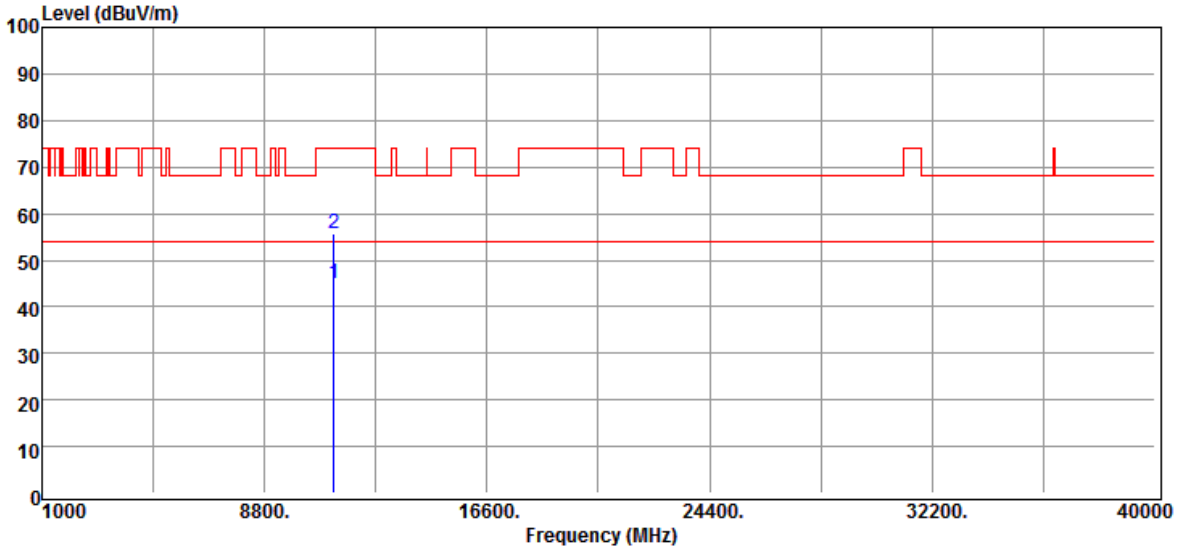
Operation Mode	:802.11ac80 / Band 3	Test Date	:2018-10-23
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5610 MHz	Engineer	:Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11220.00	Average	18.36	26.52	44.88	54.00	-9.12
11220.00	Peak	29.30	26.52	55.82	74.00	-18.18

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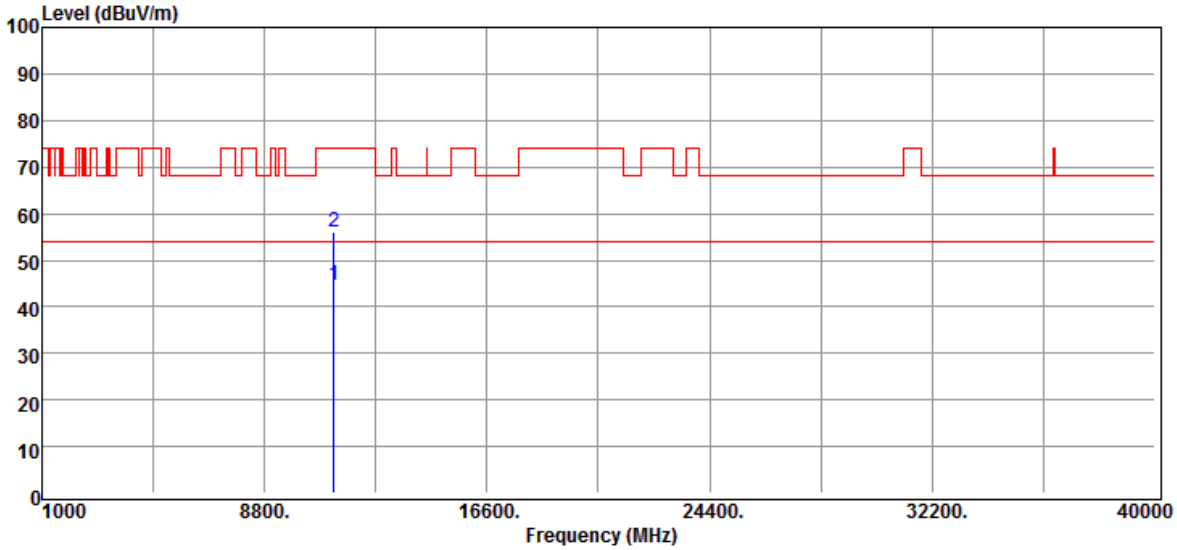
Operation Mode	:802.11ac80 / Band 3	Test Date	:2018-10-23
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5610 MHz	Engineer	:Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11220.00	Average	18.27	26.52	44.79	54.00	-9.21
11220.00	Peak	29.57	26.52	56.09	74.00	-17.91

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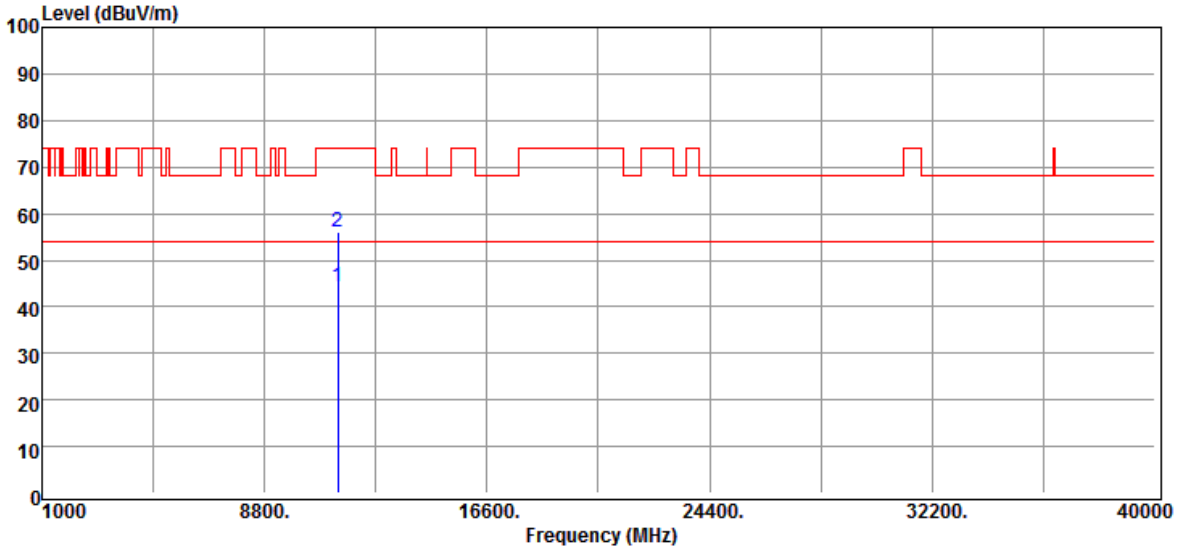
Operation Mode	:802.11ac80 / Band 3	Test Date	:2018-10-23
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5690 MHz	Engineer	:Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11380.00	Average	18.05	26.11	44.16	54.00	-9.84
11380.00	Peak	29.98	26.11	56.09	74.00	-17.91

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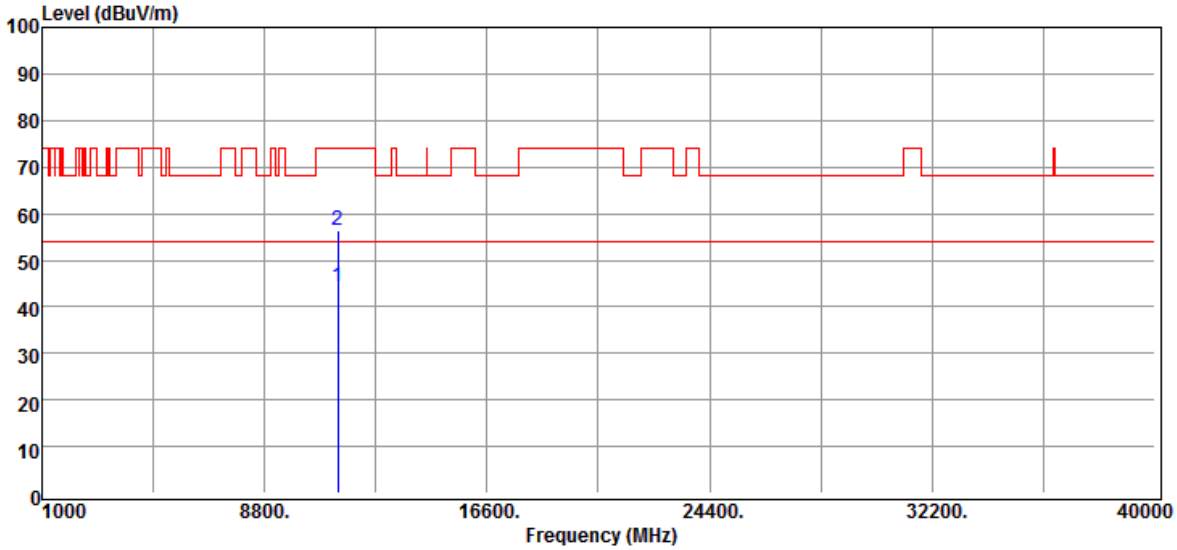
Operation Mode	:802.11ac80 / Band 3	Test Date	:2018-10-23
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5690 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11380.00	Average	18.08	26.11	44.19	54.00	-9.81
11380.00	Peak	30.27	26.11	56.38	74.00	-17.62

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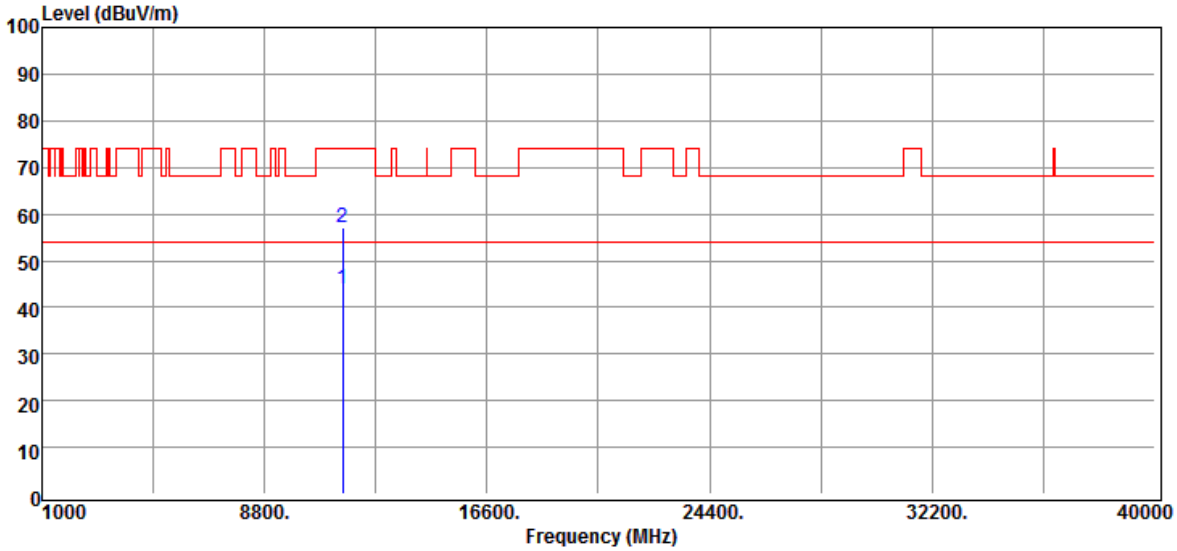
Radiated Spurious Emission Measurement Result 802.11ac VHT80,

Operation Mode	:802.11ac80 / Band 4	Test Date	:2018-10-23
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5775 MHz	Engineer	:Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11550.00	Average	18.16	25.85	44.01	54.00	-9.99
11550.00	Peak	31.08	25.85	56.93	74.00	-17.07

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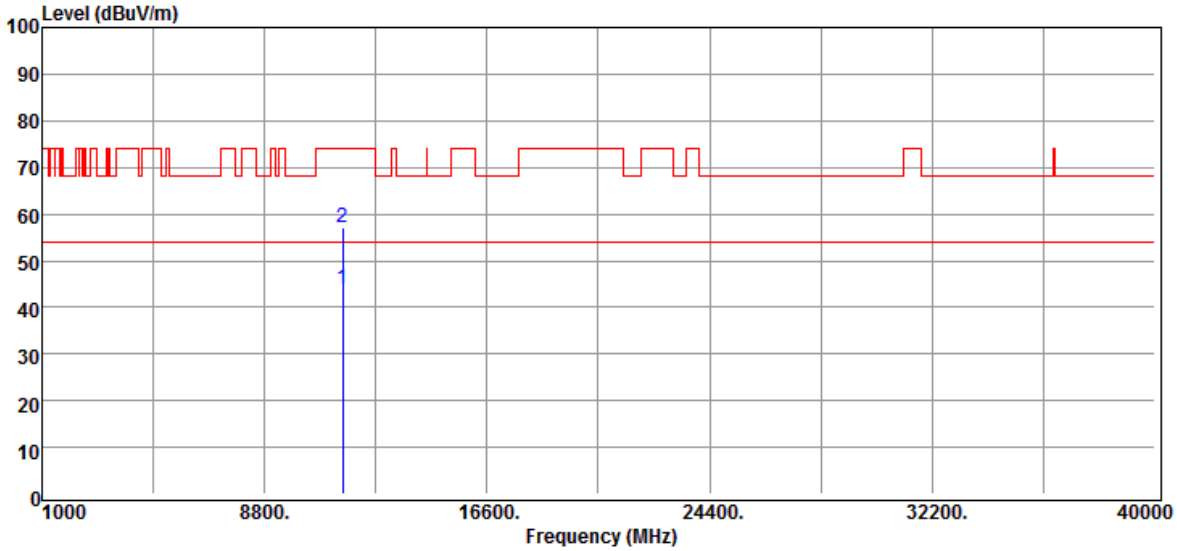
Operation Mode	:802.11ac80 / Band 4	Test Date	:2018-10-23
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5775 MHz	Engineer	:Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11550.00	Average	18.23	25.85	44.08	54.00	-9.92
11550.00	Peak	31.24	25.85	57.09	74.00	-16.91

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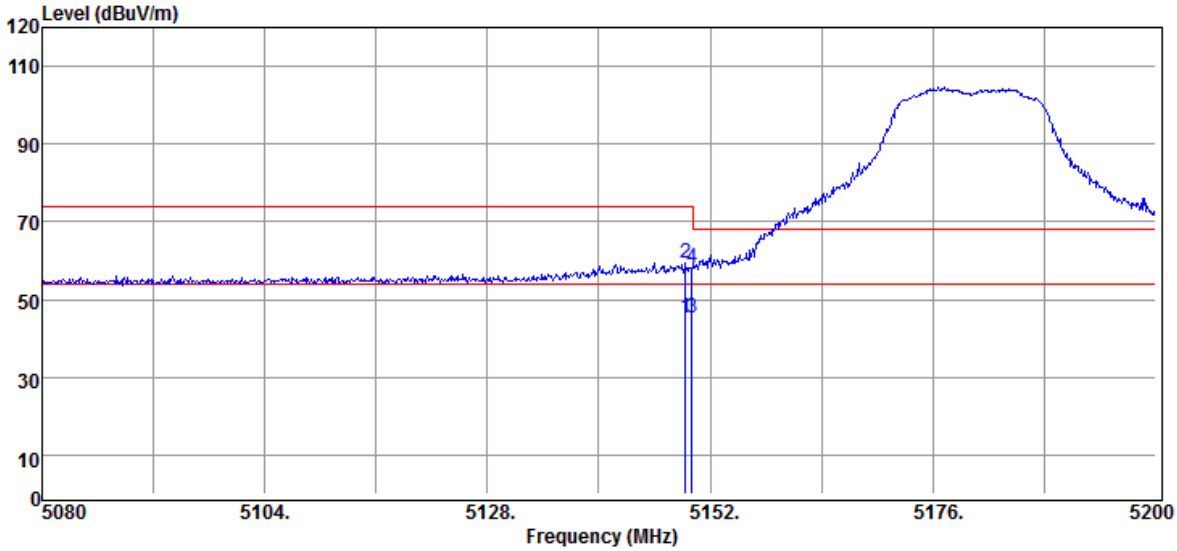
Band edge falling to restricted band
802.11a mode

Operation Mode	:802.11a / Band 1	Test Date	:2018-10-17
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5180 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5149.36	Average	31.69	13.64	45.33	54.00	-8.67
5149.36	Peak	45.93	13.64	59.57	74.00	-14.43
5150.00	Average	31.70	13.65	45.35	54.00	-8.65
5150.00	Peak	44.66	13.65	58.31	74.00	-15.69

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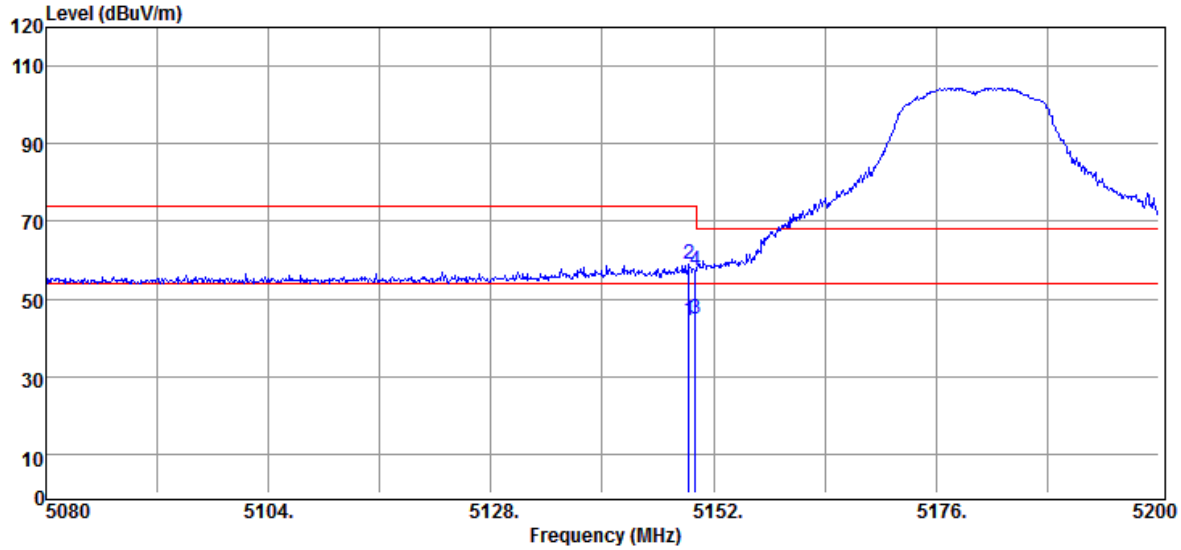
Operation Mode	:802.11a / Band 1	Test Date	:2018-10-17
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5180 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5149.36	Average	30.91	13.64	44.55	54.00	-9.45
5149.36	Peak	45.44	13.64	59.08	74.00	-14.92
5150.00	Average	31.07	13.65	44.72	54.00	-9.28
5150.00	Peak	43.49	13.65	57.14	74.00	-16.86

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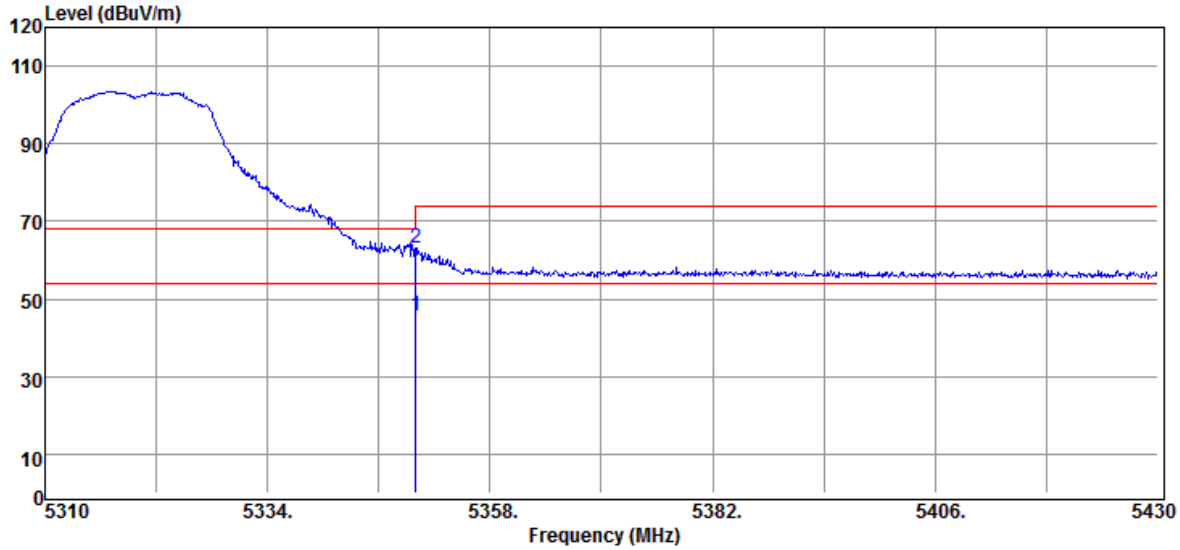
Operation Mode	:802.11a / Band 2	Test Date	:2018-10-17
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5320 MHz	Engineer	:Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5350.00	Average	31.34	14.16	45.50	54.00	-8.50
5350.00	Peak	48.95	14.16	63.11	74.00	-10.89

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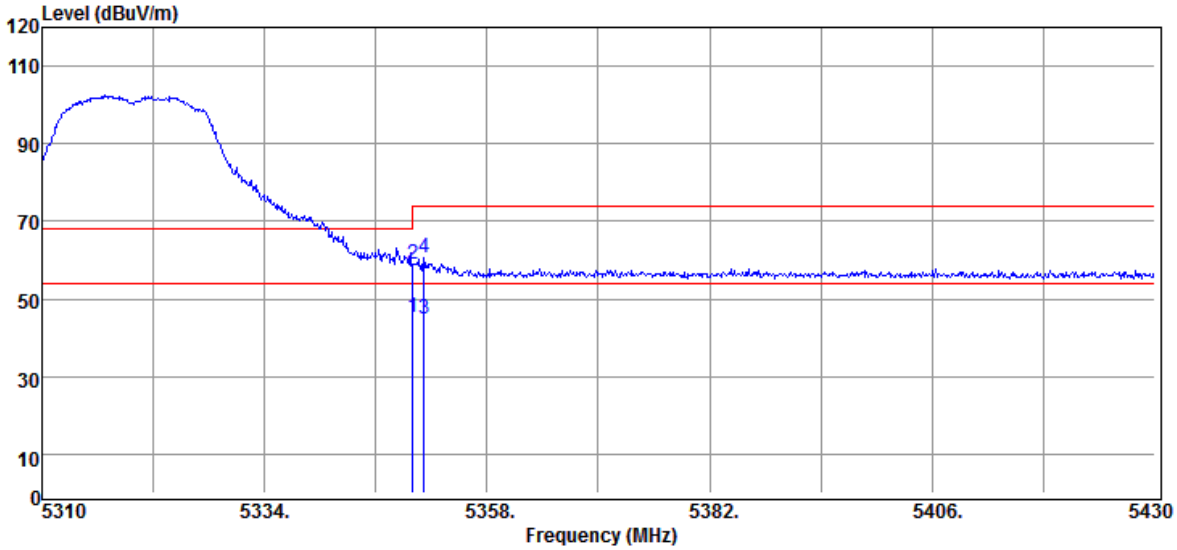
Operation Mode	:802.11a / Band 2	Test Date	:2018-10-17
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5320 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5350.00	Average	30.89	14.16	45.05	54.00	-8.95
5350.00	Peak	44.82	14.16	58.98	74.00	-15.02
5351.16	Average	30.49	14.17	44.66	54.00	-9.34
5351.16	Peak	46.30	14.17	60.47	74.00	-13.53

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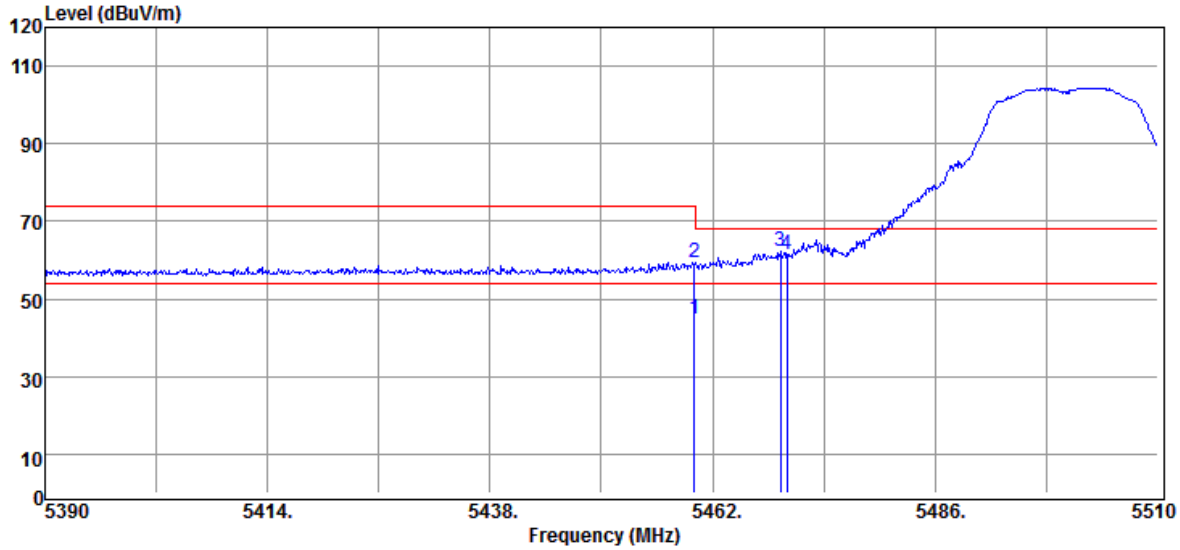
Operation Mode	:802.11a / Band 3	Test Date	:2018-10-18
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5500 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5460.00	Average	30.70	14.31	45.01	54.00	-8.99
5460.00	Peak	45.14	14.31	59.45	74.00	-14.55
5469.32	Peak	47.82	14.31	62.13	68.20	-6.07
5470.00	Peak	46.97	14.31	61.28	68.20	-6.92

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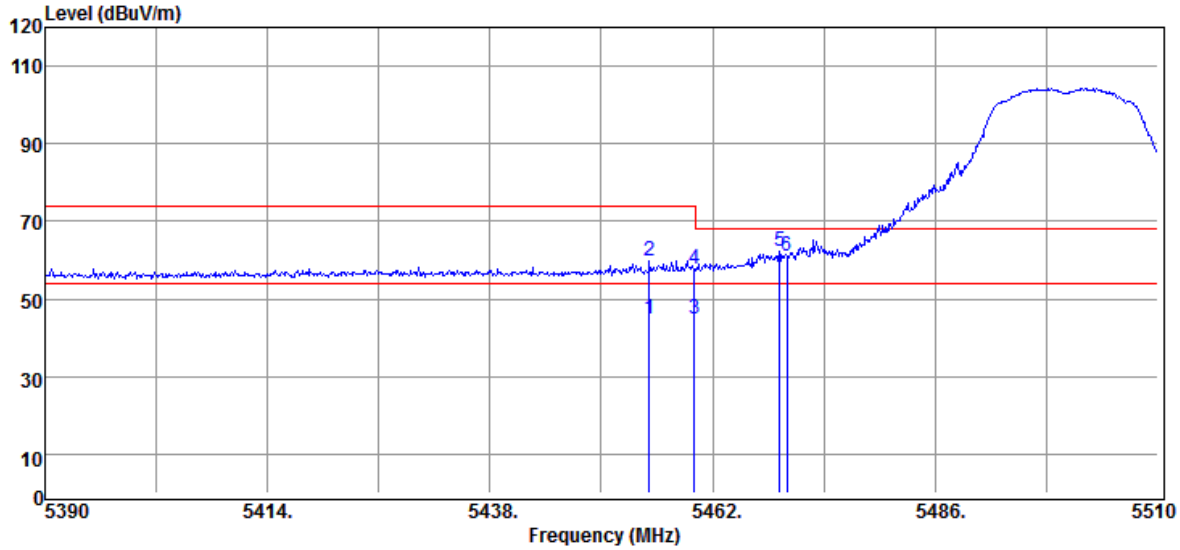
Operation Mode	:802.11a / Band 3	Test Date	:2018-10-18
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5500 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5455.16	Average	30.61	14.32	44.93	54.00	-9.07
5455.16	Peak	45.53	14.32	59.85	74.00	-14.15
5460.00	Average	30.65	14.31	44.96	54.00	-9.04
5460.00	Peak	43.51	14.31	57.82	74.00	-16.18
5469.20	Peak	47.84	14.31	62.15	68.20	-6.05
5470.00	Peak	46.67	14.31	60.98	68.20	-7.22

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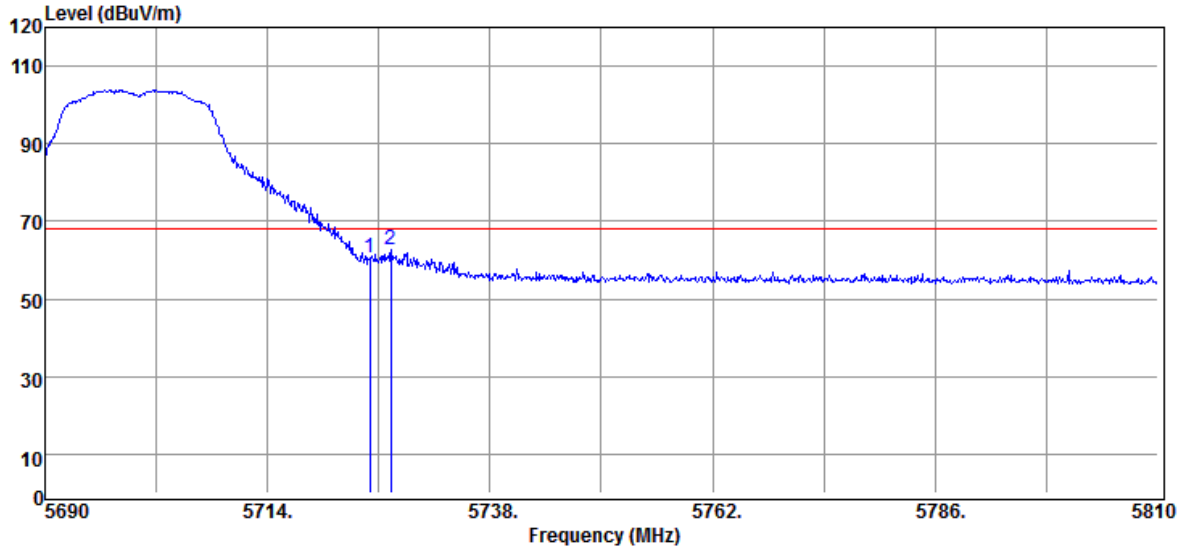
Operation Mode	:802.11a / Band 3	Test Date	:2018-10-18
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5700 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5725.00	Peak	45.96	14.50	60.46	68.20	-7.74
5727.32	Peak	48.07	14.50	62.57	68.20	-5.63

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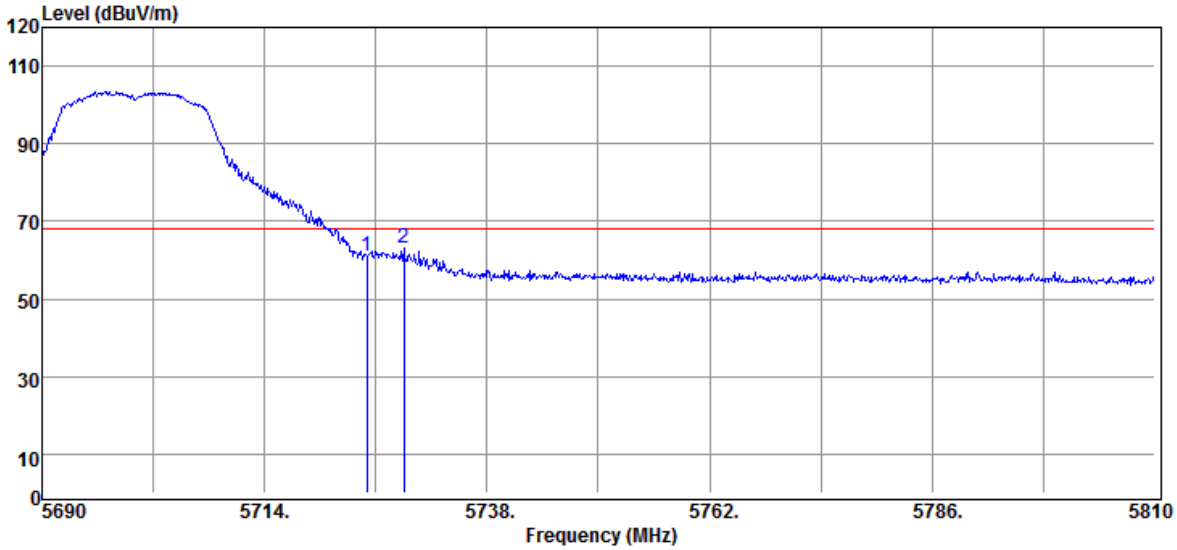
Operation Mode	:802.11a / Band 3	Test Date	:2018-10-18
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5700 MHz	Engineer	:Enzo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5725.00	Peak	46.62	14.50	61.12	68.20	-7.08
5729.00	Peak	48.81	14.50	63.31	68.20	-4.89

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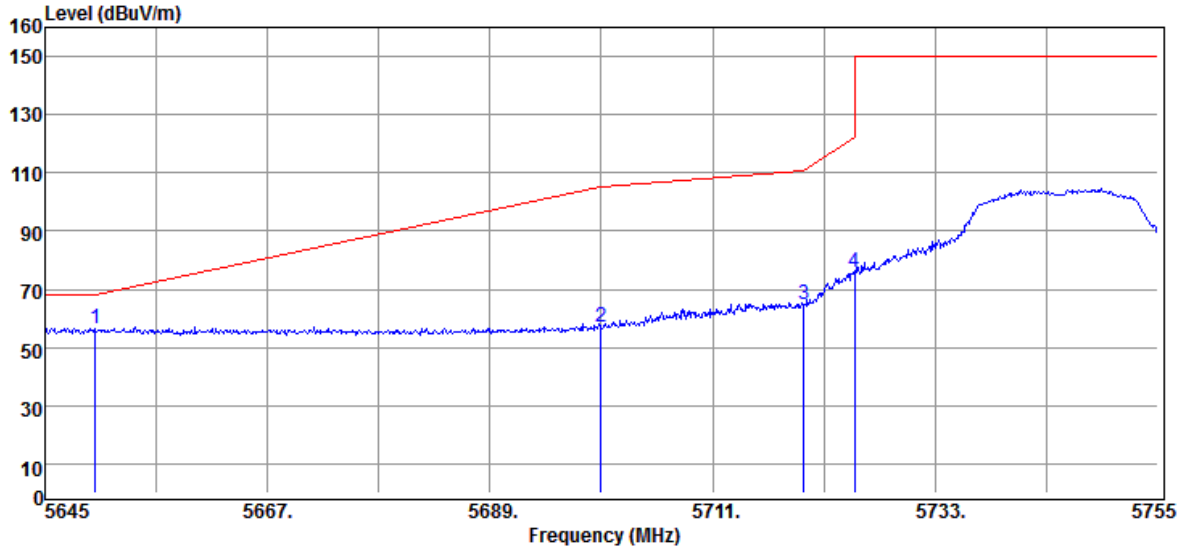
Operation Mode	:802.11a / Band 4	Test Date	:2018-10-18
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5745 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5650.00	Peak	42.06	14.42	56.48	68.20	-11.72
5700.00	Peak	42.63	14.47	57.10	105.20	-48.10
5720.00	Peak	50.22	14.49	64.71	110.80	-46.09
5725.00	Peak	61.35	14.50	75.85	122.20	-46.35

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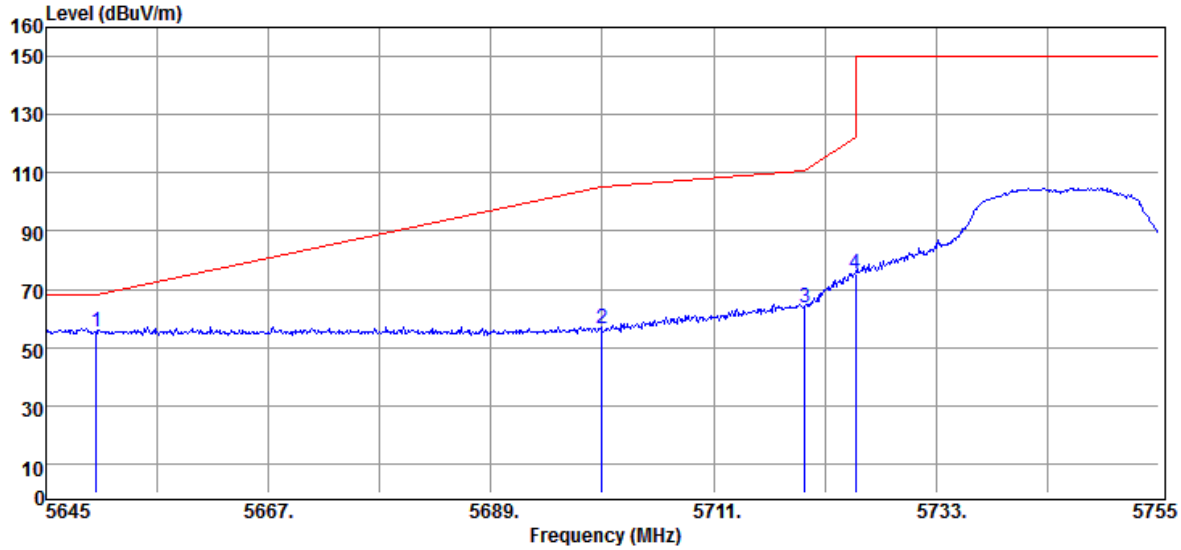
Operation Mode	:802.11a / Band 4	Test Date	:2018-10-18
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5745 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5650.00	Peak	41.16	14.42	55.58	68.20	-12.62
5700.00	Peak	42.11	14.47	56.58	105.20	-48.62
5720.00	Peak	49.26	14.49	63.75	110.80	-47.05
5725.00	Peak	60.85	14.50	75.35	122.20	-46.85

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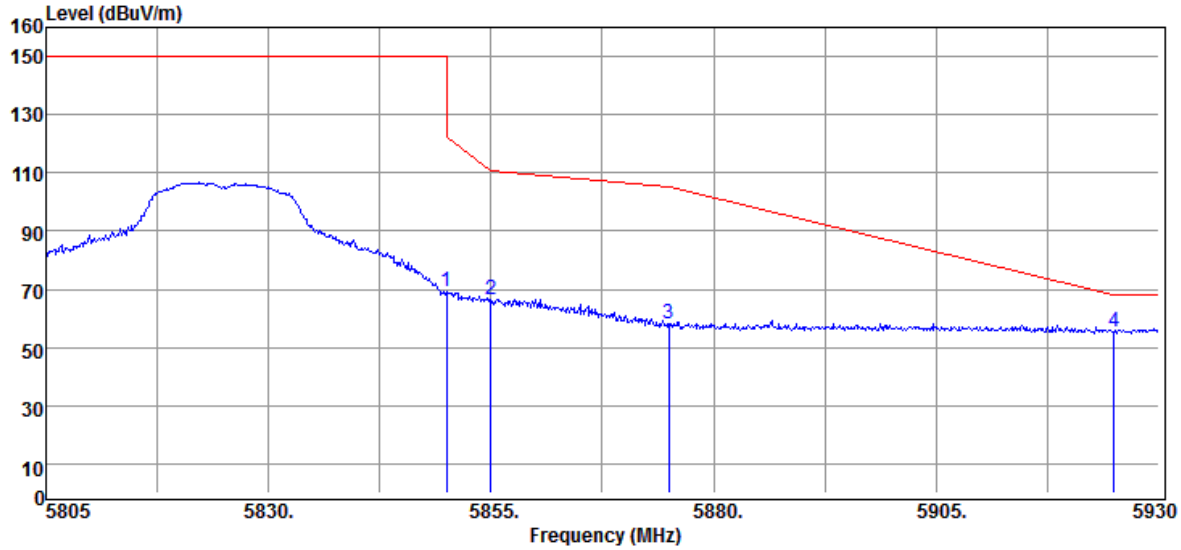
Operation Mode	:802.11a / Band 4	Test Date	:2018-10-18
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5825 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5850.00	Peak	54.70	14.72	69.42	122.20	-52.78
5855.00	Peak	51.79	14.73	66.52	110.80	-44.28
5875.00	Peak	43.50	14.78	58.28	105.20	-46.92
5925.00	Peak	40.22	14.91	55.13	68.20	-13.07

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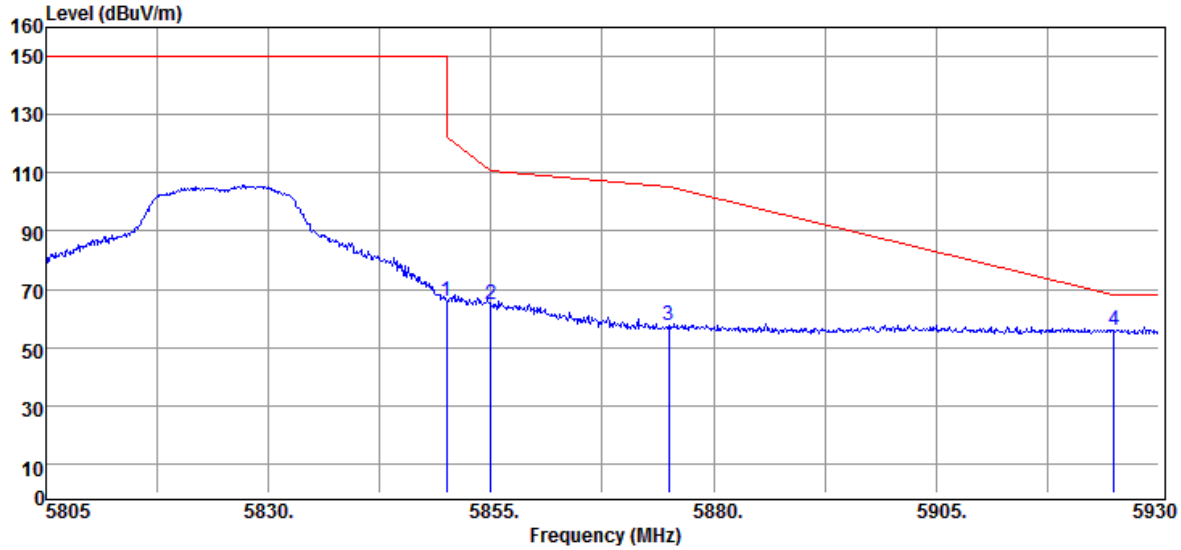
Operation Mode	:802.11a / Band 4	Test Date	:2018-10-18
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5825 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5850.00	Peak	51.42	14.72	66.14	122.20	-56.06
5855.00	Peak	50.11	14.73	64.84	110.80	-45.96
5875.00	Peak	42.74	14.78	57.52	105.20	-47.68
5925.00	Peak	40.76	14.91	55.67	68.20	-12.53

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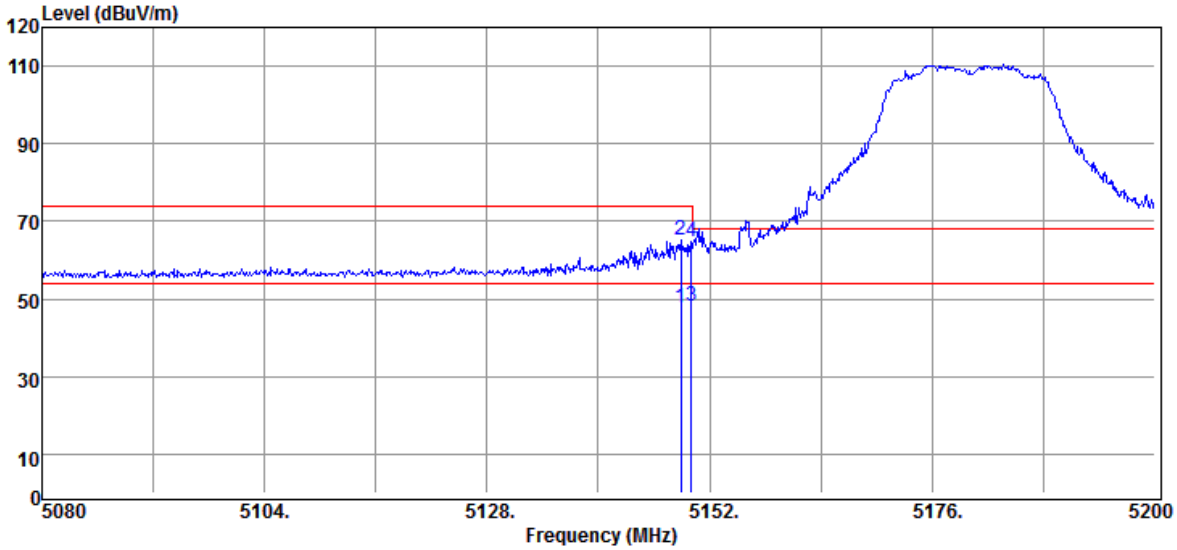
802.11n20 HT mode

Operation Mode	:802.11n20 / Band 1	Test Date	:2018-10-18
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5180 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5148.88	Average	34.13	13.63	47.76	54.00	-6.24
5148.88	Peak	51.42	13.63	65.05	74.00	-8.95
5150.00	Average	34.32	13.65	47.97	54.00	-6.03
5150.00	Peak	51.13	13.65	64.78	74.00	-9.22

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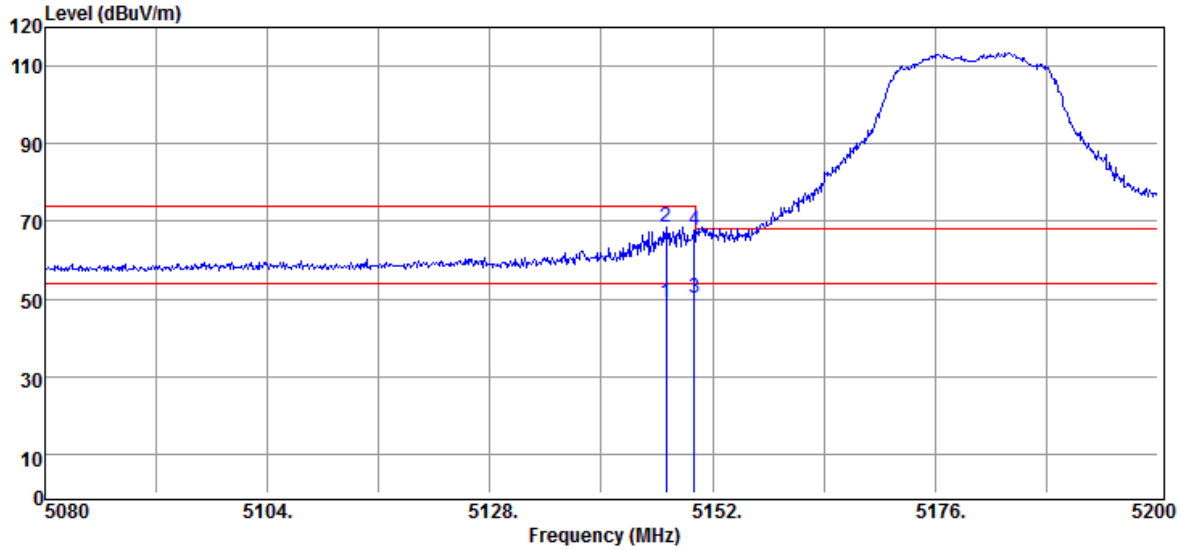
Operation Mode	:802.11n20 / Band 1	Test Date	:2018-10-18
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5180 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5146.96	Average	35.48	13.63	49.11	54.00	-4.89
5146.96	Peak	54.88	13.63	68.51	74.00	-5.49
5150.00	Average	36.67	13.65	50.32	54.00	-3.68
5150.00	Peak	53.99	13.65	67.64	74.00	-6.36

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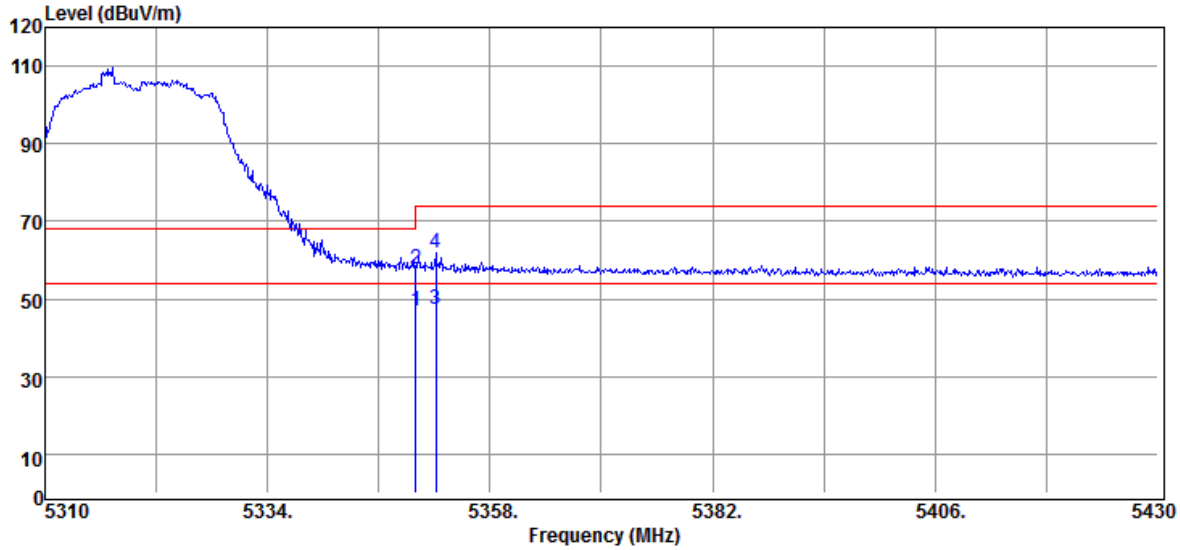
Operation Mode	:802.11n20 / Band 2	Test Date	:2018-10-18
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5320 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5350.00	Average	32.82	14.16	46.98	54.00	-7.02
5350.00	Peak	43.74	14.16	57.90	74.00	-16.10
5352.12	Average	32.98	14.17	47.15	54.00	-6.85
5352.12	Peak	47.81	14.17	61.98	74.00	-12.02

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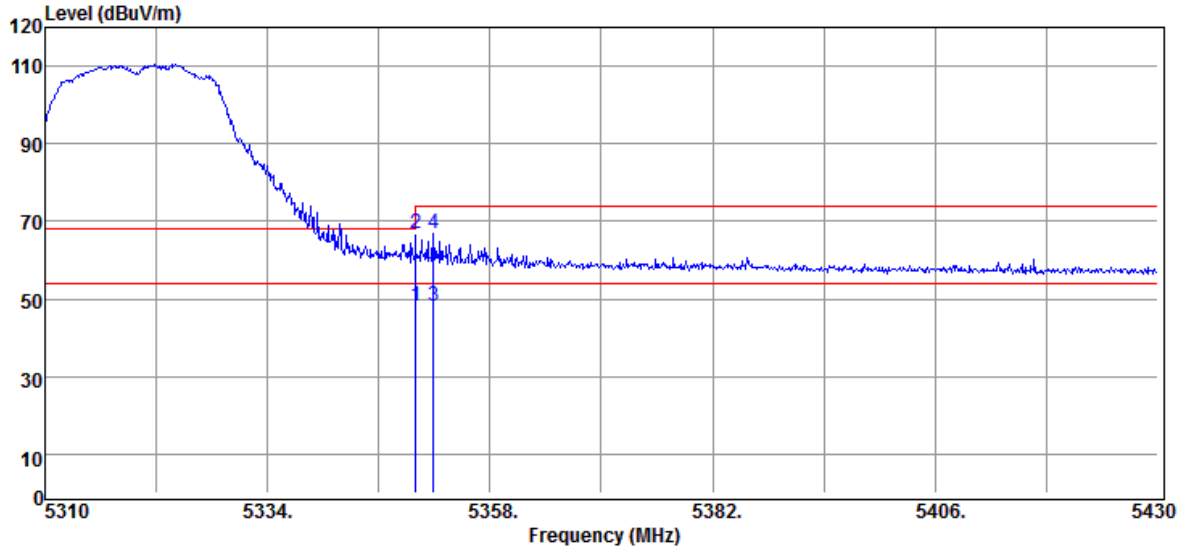
Operation Mode	:802.11n20 / Band 2	Test Date	:2018-10-18
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5320 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5350.00	Average	34.16	14.16	48.32	54.00	-5.68
5350.00	Peak	52.74	14.16	66.90	74.00	-7.10
5351.88	Average	34.09	14.17	48.26	54.00	-5.74
5351.88	Peak	52.73	14.17	66.90	74.00	-7.10

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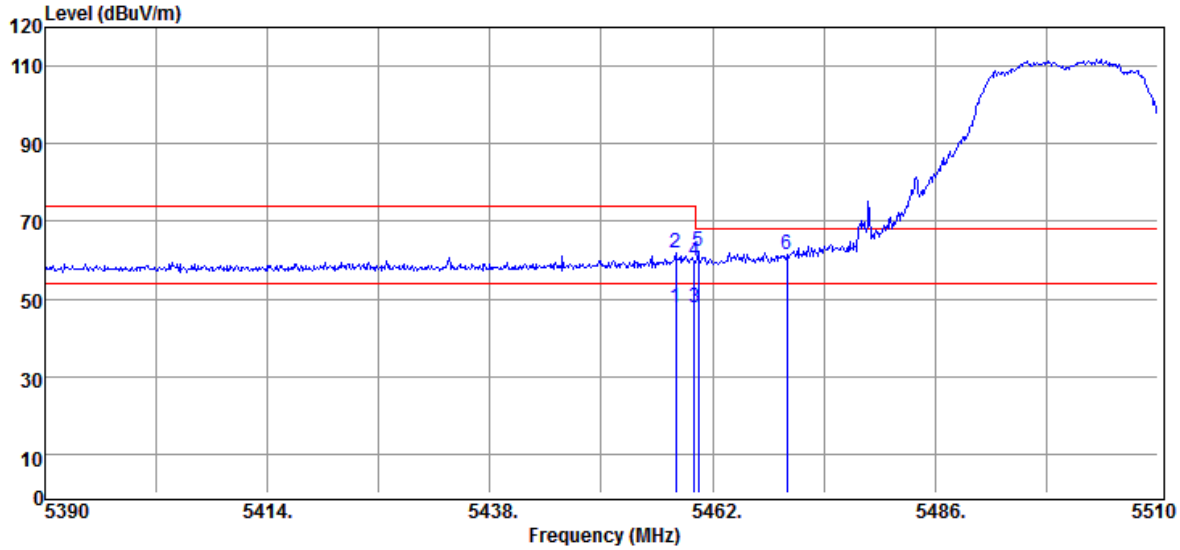
Operation Mode	:802.11n20 / Band 3	Test Date	:2018-10-18
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5500 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5458.04	Average	33.48	14.31	47.79	54.00	-6.21
5458.04	Peak	47.67	14.31	61.98	74.00	-12.02
5460.00	Average	33.53	14.31	47.84	54.00	-6.16
5460.00	Peak	45.42	14.31	59.73	74.00	-14.27
5460.44	Peak	48.08	14.31	62.39	68.20	-5.81
5470.00	Peak	47.29	14.31	61.60	68.20	-6.60

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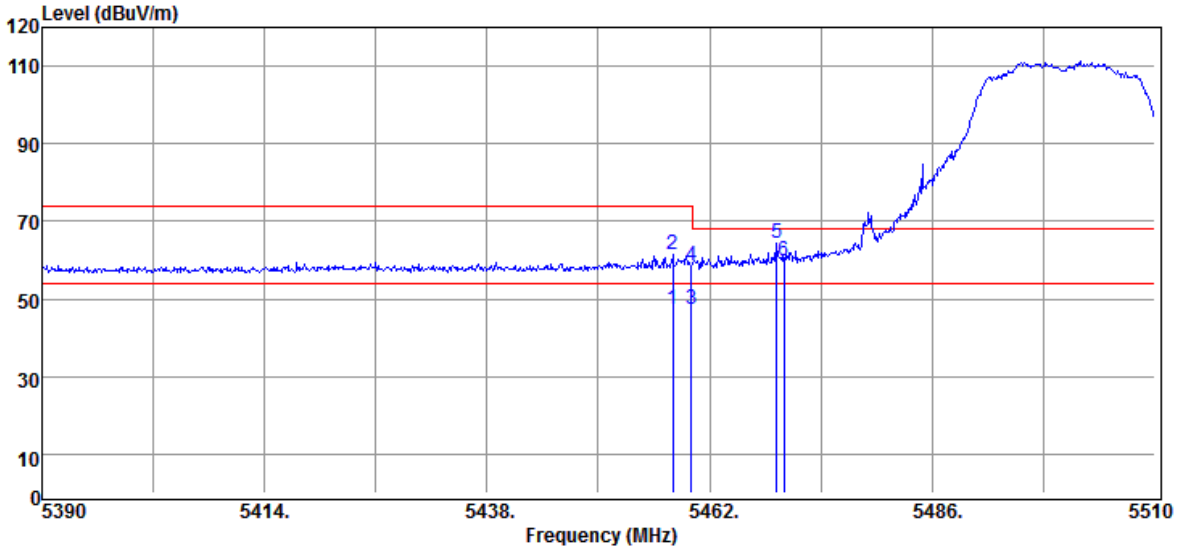
Operation Mode	:802.11n20 / Band 3	Test Date	:2018-10-18
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5500 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5458.04	Average	33.00	14.31	47.31	54.00	-6.69
5458.04	Peak	47.12	14.31	61.43	74.00	-12.57
5460.00	Average	33.17	14.31	47.48	54.00	-6.52
5460.00	Peak	44.40	14.31	58.71	74.00	-15.29
5469.20	Peak	49.99	14.31	64.30	68.20	-3.90
5470.00	Peak	45.58	14.31	59.89	68.20	-8.31

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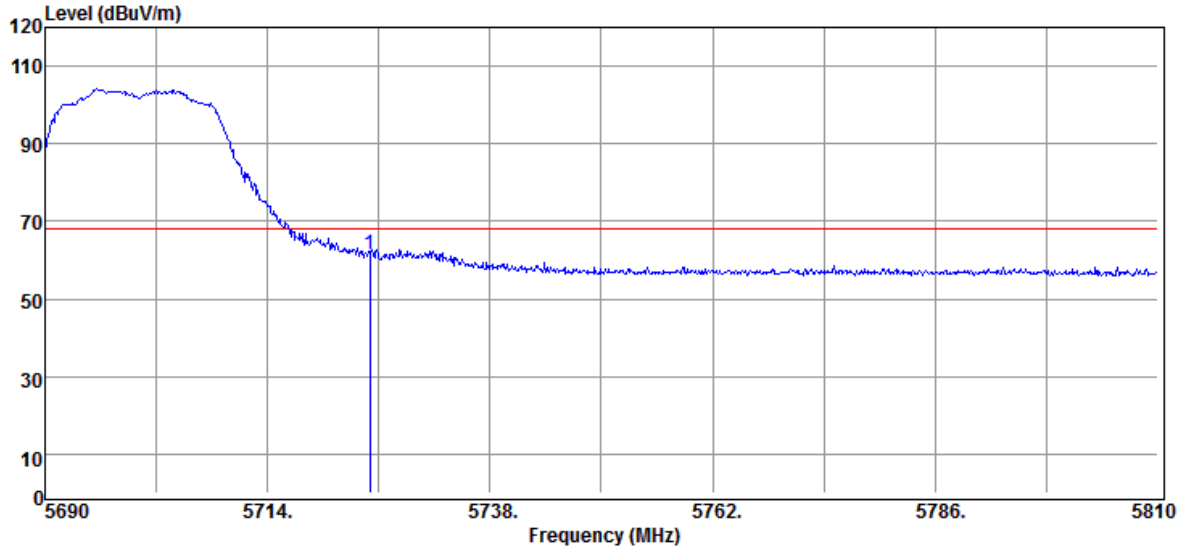
Operation Mode	:802.11n20 / Band 3	Test Date	:2018-10-18
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5700 MHz	Engineer	:Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5725.00	Peak	47.16	14.50	61.66	68.20	-6.54

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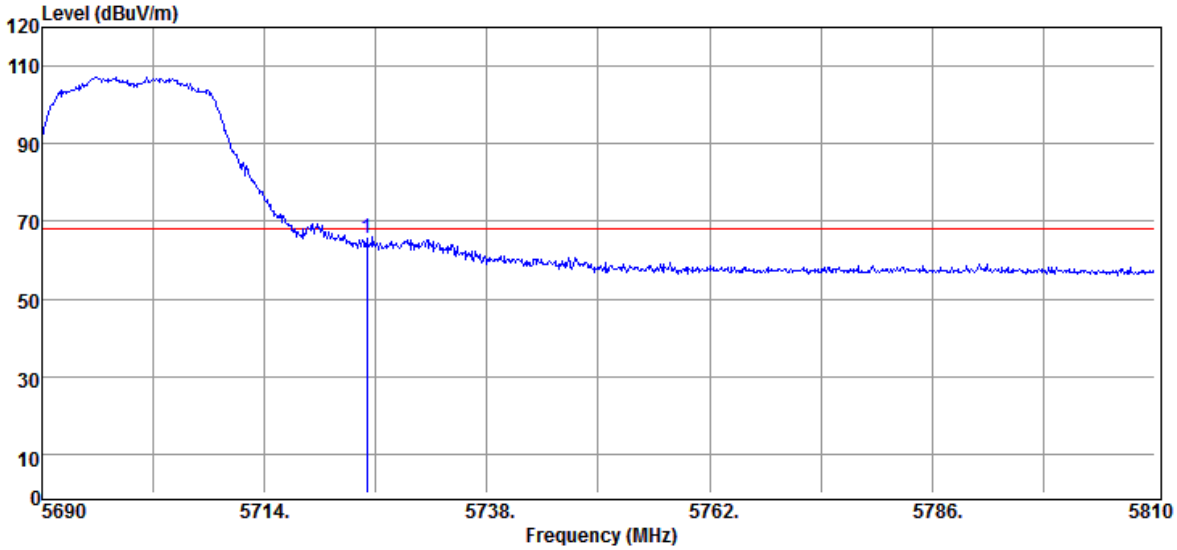
Operation Mode	:802.11n20 / Band 3	Test Date	:2018-10-18
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5700 MHz	Engineer	:Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5725.00	Peak	50.93	14.50	65.43	68.20	-2.77

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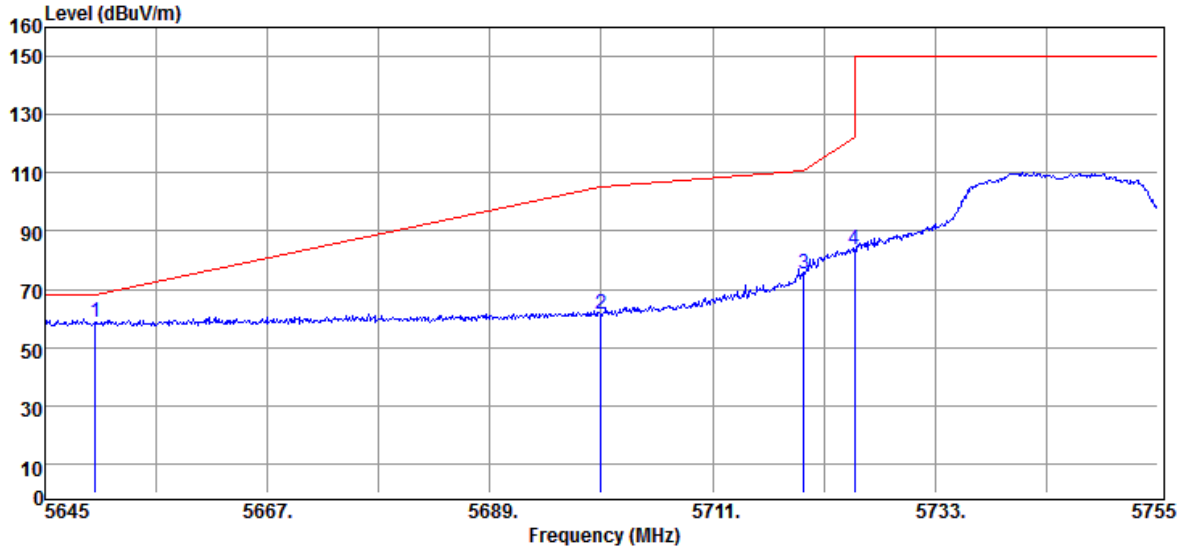
Operation Mode	:802.11n20 / Band 4	Test Date	:2018-10-18
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5745 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5650.00	Peak	44.08	14.42	58.50	68.20	-9.70
5700.00	Peak	47.20	14.47	61.67	105.20	-43.53
5720.00	Peak	60.74	14.49	75.23	110.80	-35.57
5725.00	Peak	69.25	14.50	83.75	122.20	-38.45

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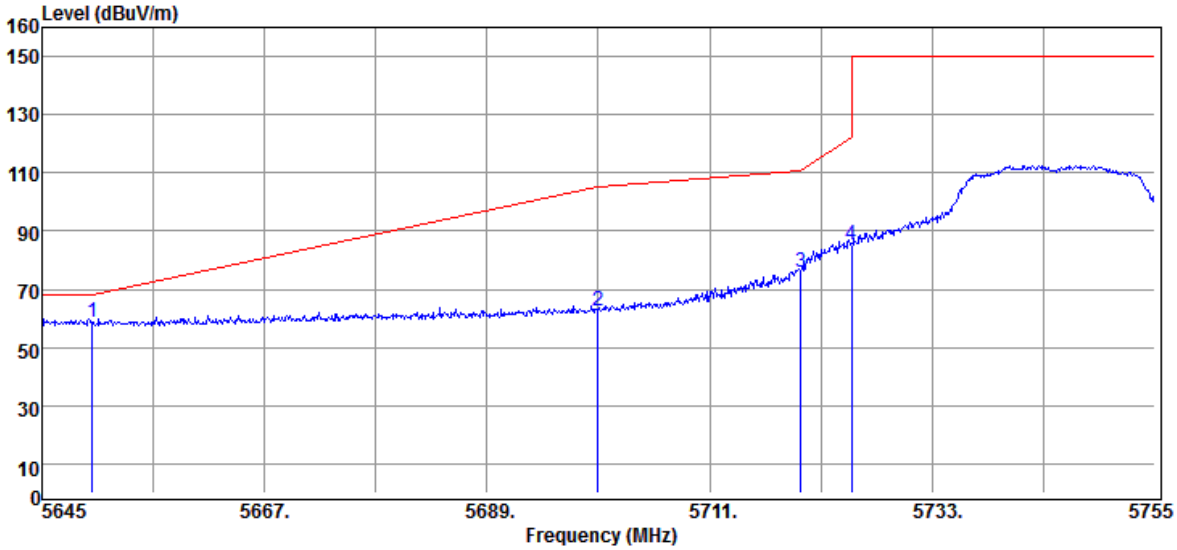
Operation Mode	:802.11n20 / Band 4	Test Date	:2018-10-18
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5745 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5650.00	Peak	44.12	14.42	58.54	68.20	-9.66
5700.00	Peak	48.36	14.47	62.83	105.20	-42.37
5720.00	Peak	61.63	14.49	76.12	110.80	-34.68
5725.00	Peak	70.95	14.50	85.45	122.20	-36.75

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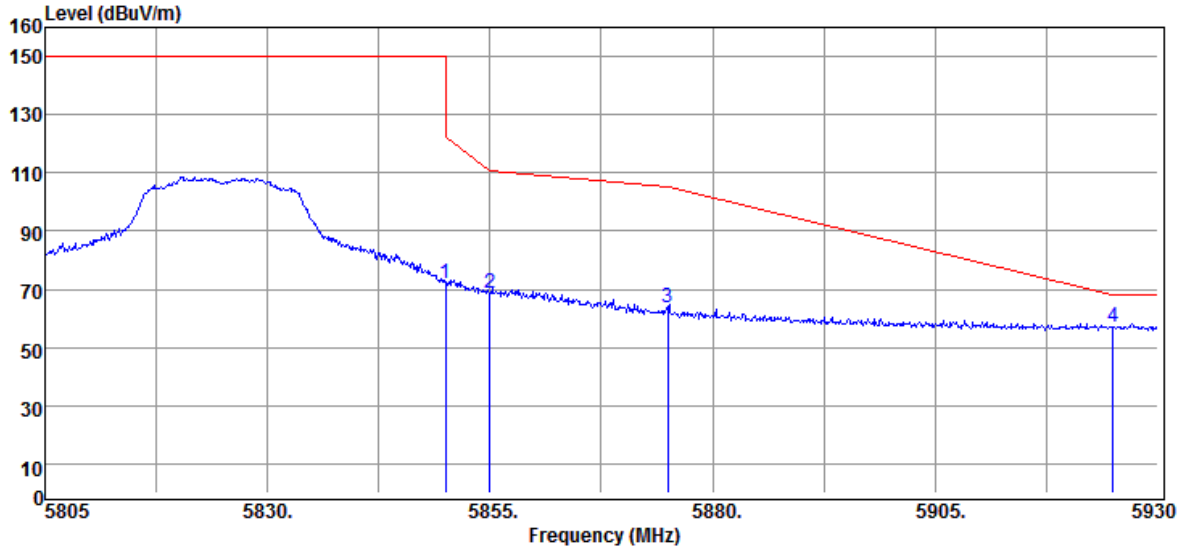
Operation Mode	:802.11n20 / Band 4	Test Date	:2018-10-18
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5825 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5850.00	Peak	57.24	14.72	71.96	122.20	-50.24
5855.00	Peak	53.89	14.73	68.62	110.80	-42.18
5875.00	Peak	49.04	14.78	63.82	105.20	-41.38
5925.00	Peak	41.88	14.91	56.79	68.20	-11.41

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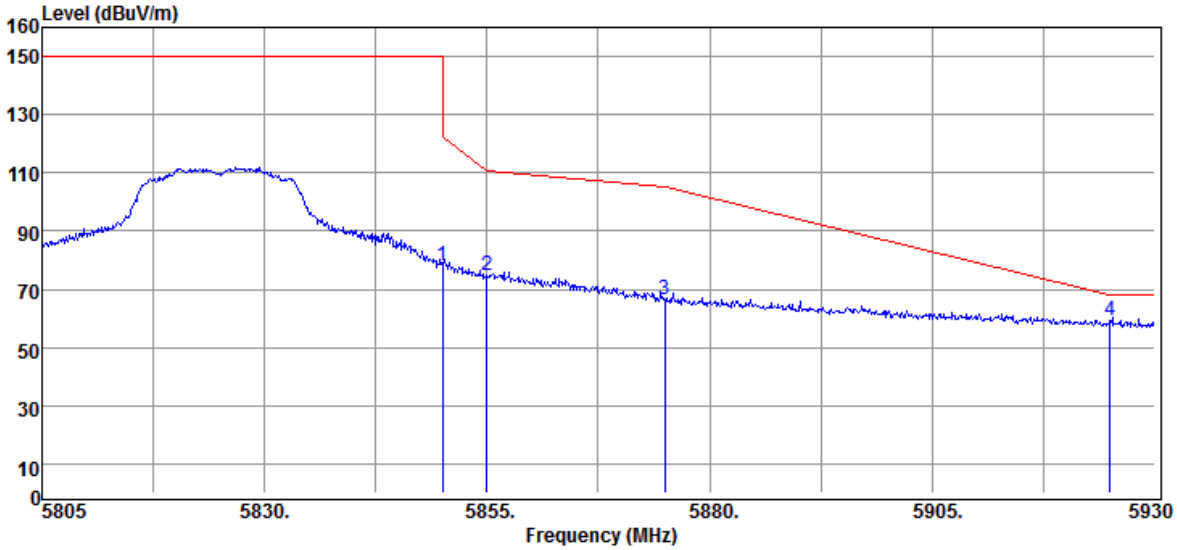
Operation Mode	:802.11n20 / Band 4	Test Date	:2018-10-18
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5825 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5850.00	Peak	63.56	14.72	78.28	122.20	-43.92
5855.00	Peak	60.08	14.73	74.81	110.80	-35.99
5875.00	Peak	51.78	14.78	66.56	105.20	-38.64
5925.00	Peak	44.06	14.91	58.97	68.20	-9.23

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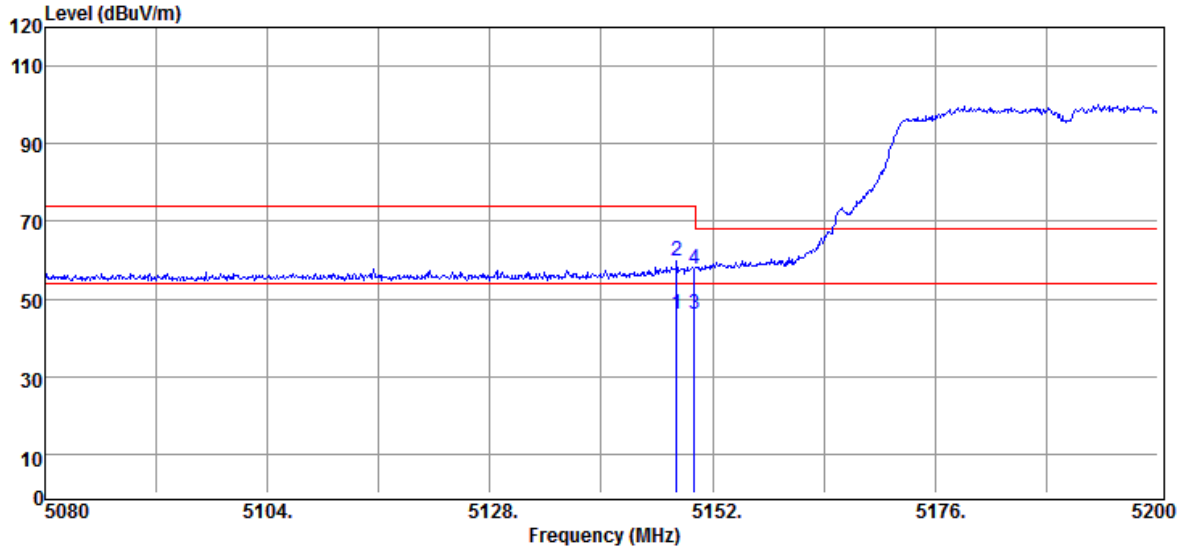
802.11n40 HT mode

Operation Mode	:802.11n40 / Band 1	Test Date	:2018-10-18
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5190 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5148.16	Average	32.53	13.63	46.16	54.00	-7.84
5148.16	Peak	46.04	13.63	59.67	74.00	-14.33
5150.00	Average	32.44	13.65	46.09	54.00	-7.91
5150.00	Peak	44.15	13.65	57.80	74.00	-16.20

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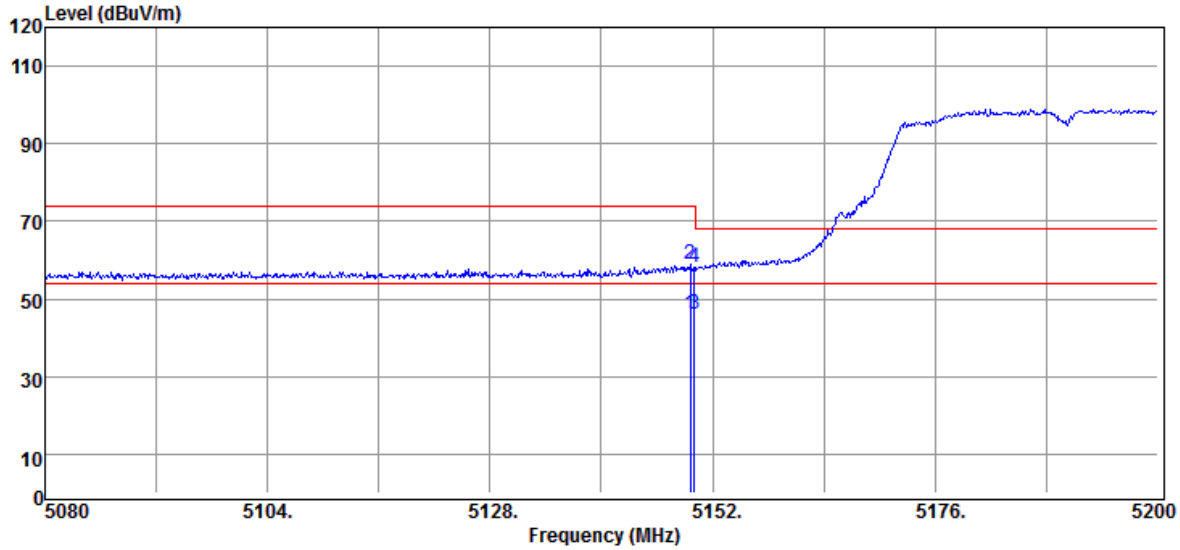
Operation Mode	:802.11n40 / Band 1	Test Date	:2018-10-18
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5190 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5149.60	Average	32.55	13.64	46.19	54.00	-7.81
5149.60	Peak	45.45	13.64	59.09	74.00	-14.91
5150.00	Average	32.51	13.65	46.16	54.00	-7.84
5150.00	Peak	44.54	13.65	58.19	74.00	-15.81

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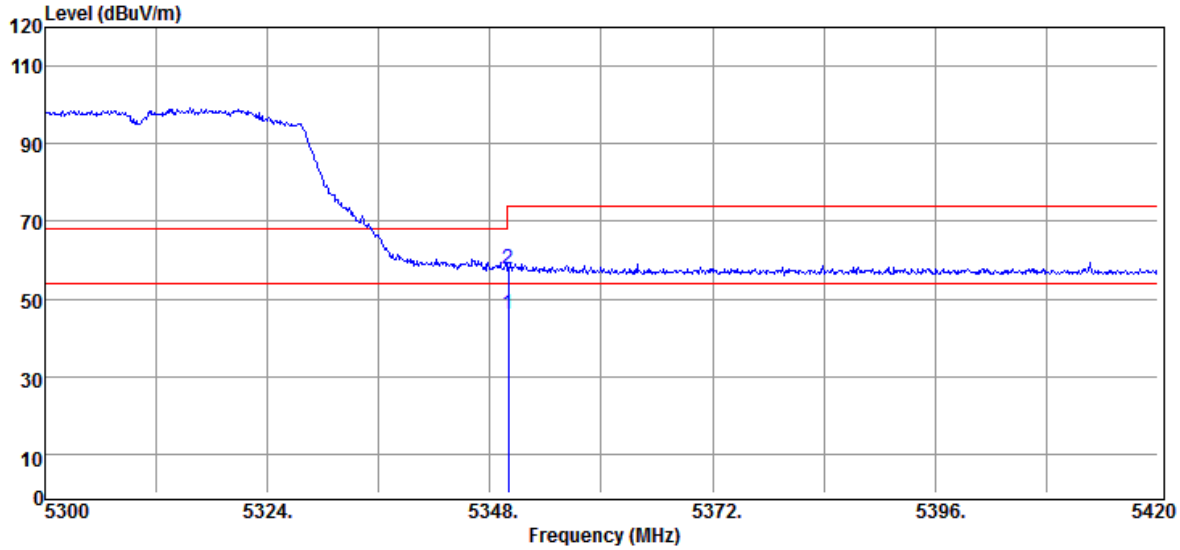
Operation Mode	:802.11n40 / Band 2	Test Date	:2018-10-18
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5310 MHz	Engineer	:Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5350.00	Average	32.09	14.16	46.25	54.00	-7.75
5350.00	Peak	43.45	14.16	57.61	74.00	-16.39

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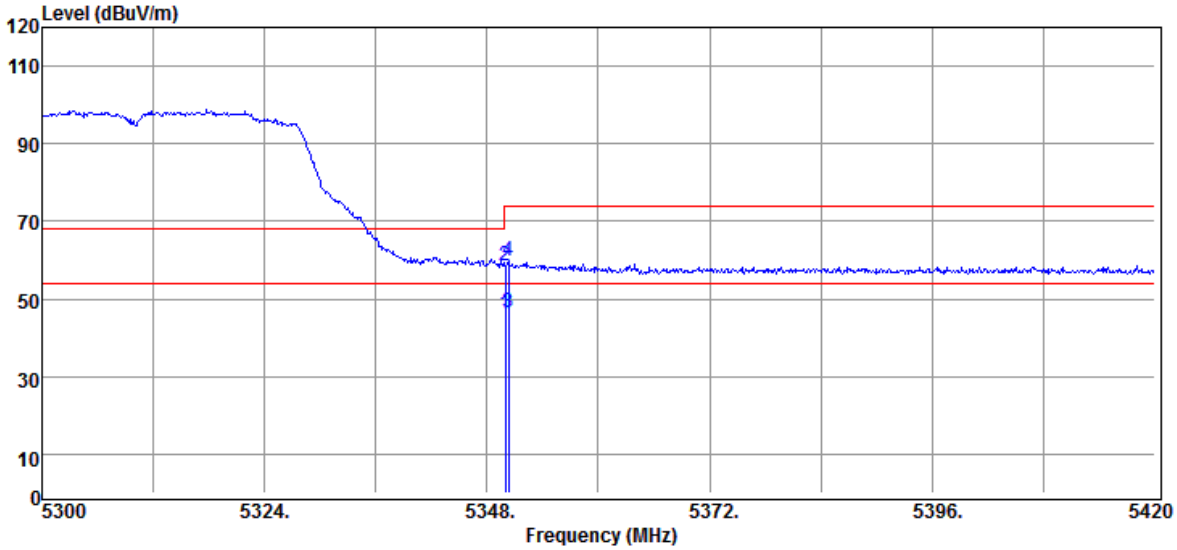
Operation Mode	:802.11n40 / Band 2	Test Date	:2018-10-18
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5310 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5350.00	Average	32.08	14.16	46.24	54.00	-7.76
5350.00	Peak	44.38	14.16	58.54	74.00	-15.46
5350.28	Average	32.14	14.17	46.31	54.00	-7.69
5350.28	Peak	45.65	14.17	59.82	74.00	-14.18

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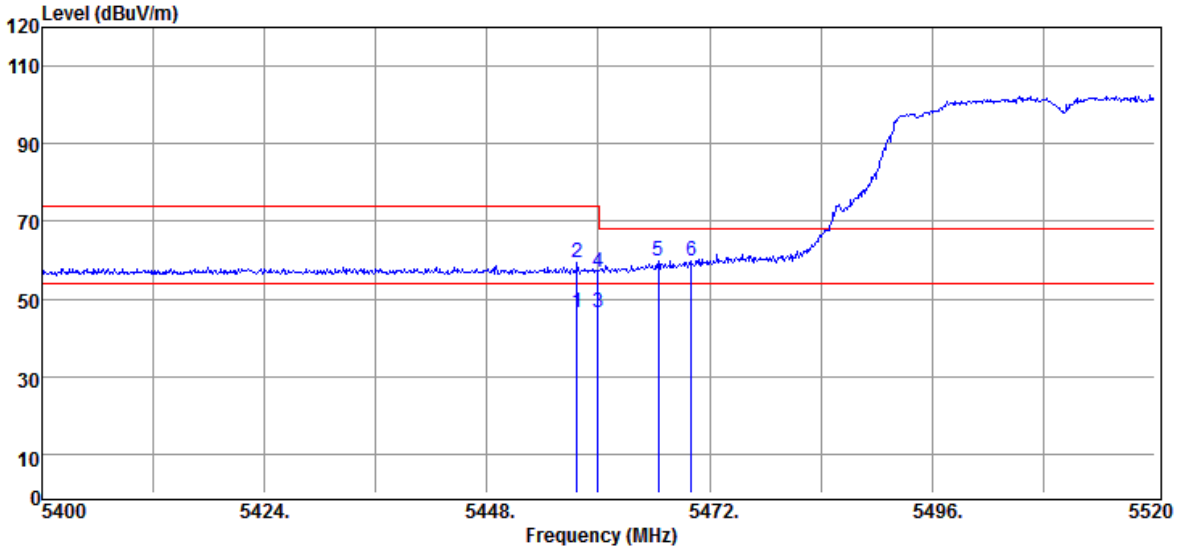
Operation Mode	:802.11n40 / Band 3	Test Date	:2018-10-18
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5510 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5457.72	Average	32.12	14.31	46.43	54.00	-7.57
5457.72	Peak	44.89	14.31	59.20	74.00	-14.80
5460.00	Average	32.15	14.31	46.46	54.00	-7.54
5460.00	Peak	42.57	14.31	56.88	74.00	-17.12
5466.48	Peak	45.66	14.32	59.98	68.20	-8.22
5470.00	Peak	45.40	14.31	59.71	68.20	-8.49

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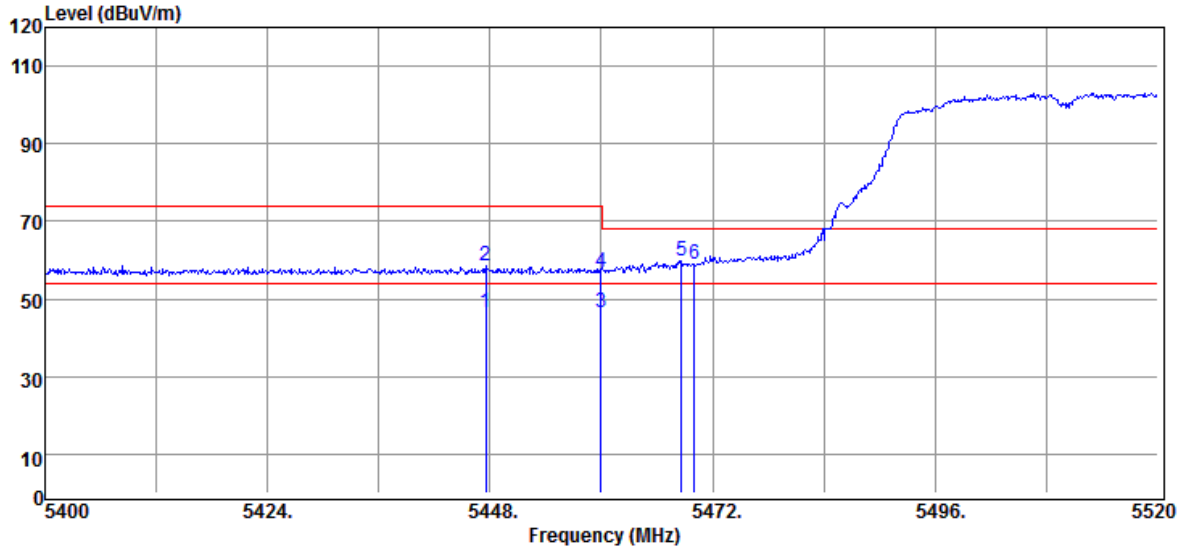
Operation Mode	:802.11n40 / Band 3	Test Date	:2018-10-18
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5510 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5447.52	Average	32.13	14.31	46.44	54.00	-7.56
5447.52	Peak	44.07	14.31	58.38	74.00	-15.62
5460.00	Average	32.12	14.31	46.43	54.00	-7.57
5460.00	Peak	42.47	14.31	56.78	74.00	-17.22
5468.64	Peak	45.48	14.32	59.80	68.20	-8.40
5470.00	Peak	44.56	14.31	58.87	68.20	-9.33

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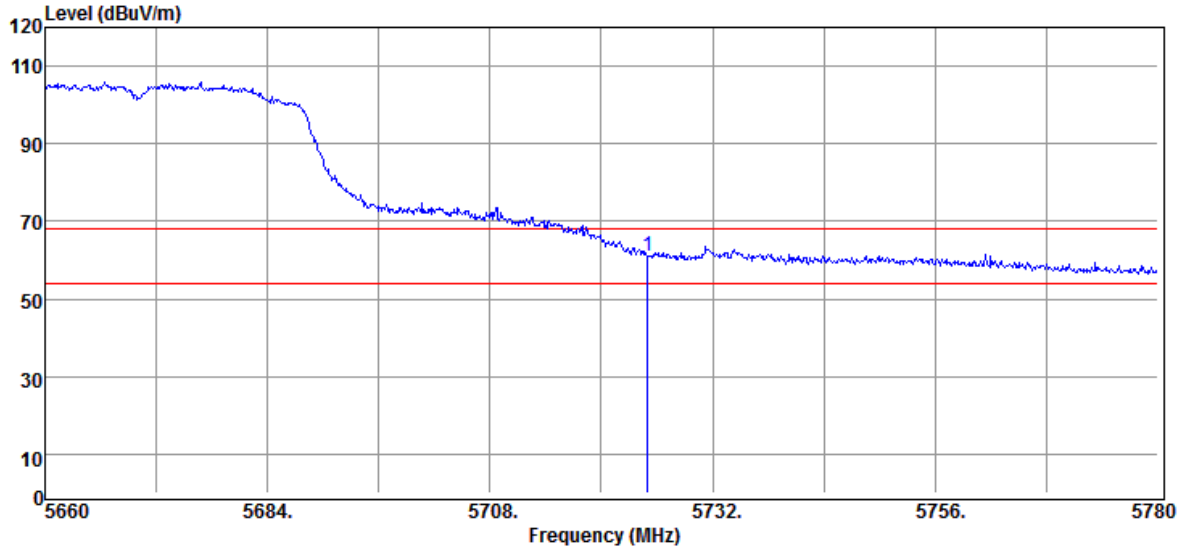
Operation Mode	:802.11n40 / Band 3	Test Date	:2018-10-18
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5670 MHz	Engineer	:Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5725.00	Peak	46.63	14.50	61.13	68.20	-7.07

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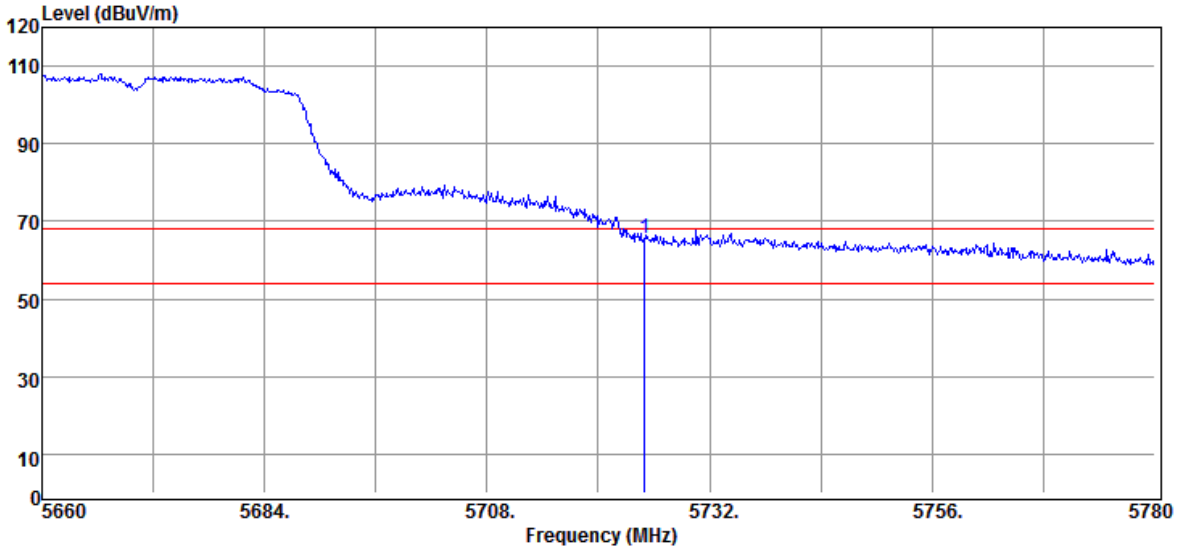
Operation Mode	:802.11n40 / Band 3	Test Date	:2018-10-18
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5670 MHz	Engineer	:Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5725.00	Peak	50.92	14.50	65.42	68.20	-2.78

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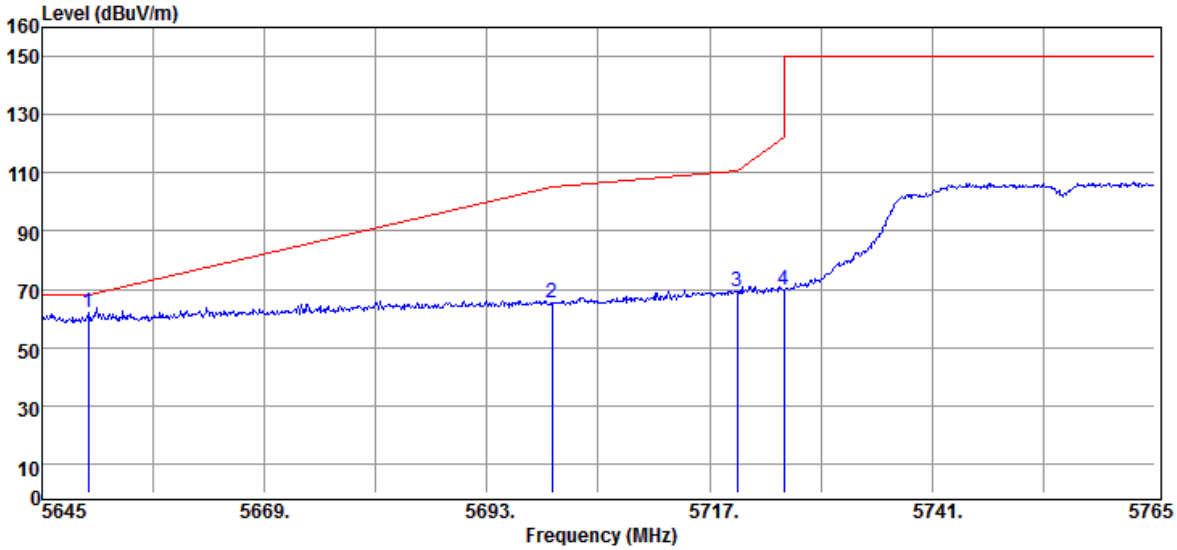
Operation Mode	:802.11n40 / Band 4	Test Date	:2018-10-18
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5755 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5650.00	Peak	47.57	14.42	61.99	68.20	-6.21
5700.00	Peak	50.93	14.47	65.40	105.20	-39.80
5720.00	Peak	54.77	14.49	69.26	110.80	-41.54
5725.00	Peak	55.04	14.50	69.54	122.20	-52.66

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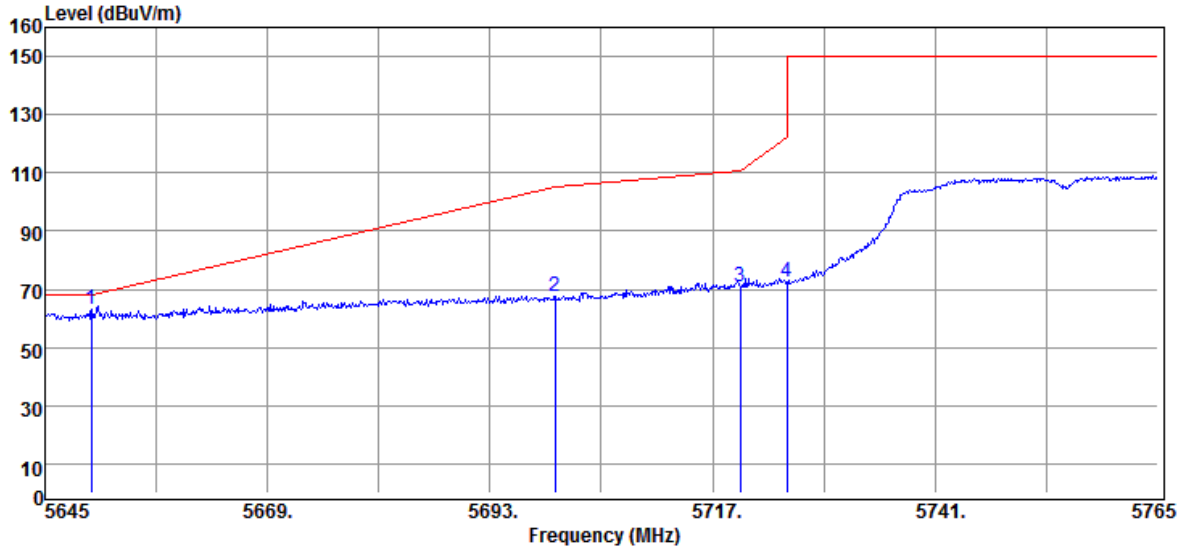
Operation Mode	:802.11n40 / Band 4	Test Date	:2018-10-18
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5755 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5650.00	Peak	48.77	14.42	63.19	68.20	-5.01
5700.00	Peak	53.23	14.47	67.70	105.20	-37.50
5720.00	Peak	56.28	14.49	70.77	110.80	-40.03
5725.00	Peak	57.77	14.50	72.27	122.20	-49.93

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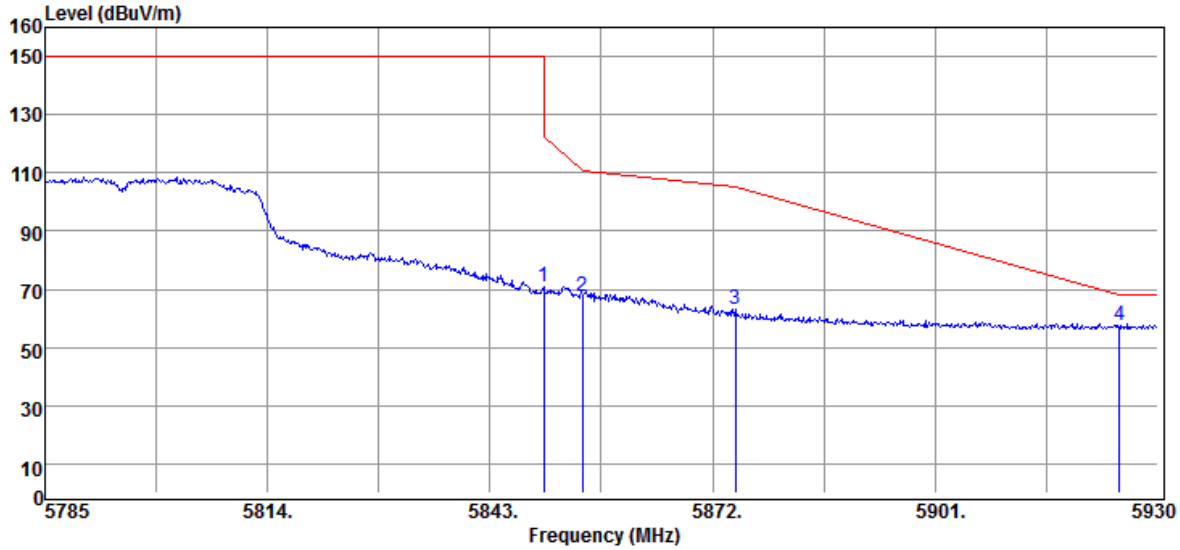
Operation Mode	:802.11n40 / Band 4	Test Date	:2018-10-18
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5795 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5850.00	Peak	55.89	14.72	70.61	122.20	-51.59
5855.00	Peak	53.04	14.73	67.77	110.80	-43.03
5875.00	Peak	48.15	14.78	62.93	105.20	-42.27
5925.00	Peak	42.43	14.91	57.34	68.20	-10.86

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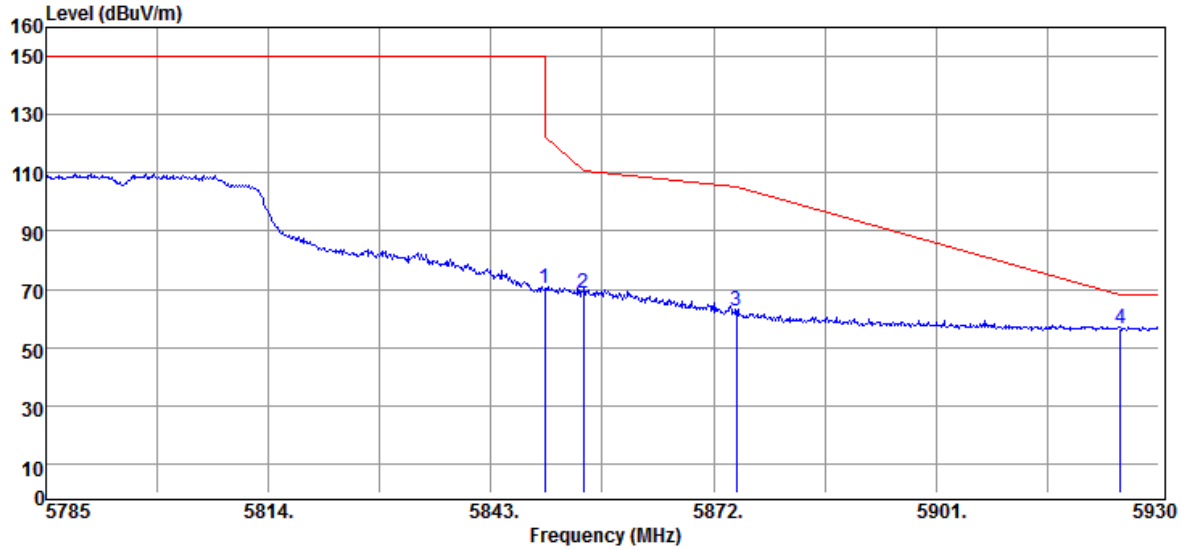
Operation Mode	:802.11n40 / Band 4	Test Date	:2018-10-18
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5795 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5850.00	Peak	55.73	14.72	70.45	122.20	-51.75
5855.00	Peak	54.14	14.73	68.87	110.80	-41.93
5875.00	Peak	47.72	14.78	62.50	105.20	-42.70
5925.00	Peak	41.64	14.91	56.55	68.20	-11.65

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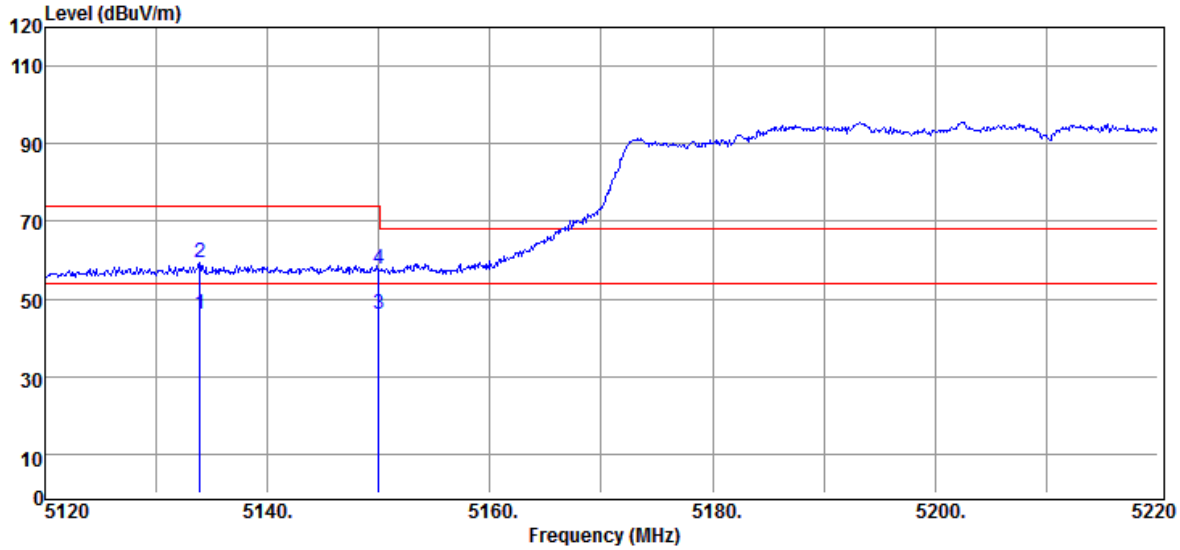
802.11ac80 VHT mode

Operation Mode	:802.11AC80 / Band 1	Test Date	:2018-10-18
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5210 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5133.90	Average	32.68	13.59	46.27	54.00	-7.73
5133.90	Peak	45.62	13.59	59.21	74.00	-14.79
5150.00	Average	32.50	13.65	46.15	54.00	-7.85
5150.00	Peak	44.07	13.65	57.72	74.00	-16.28

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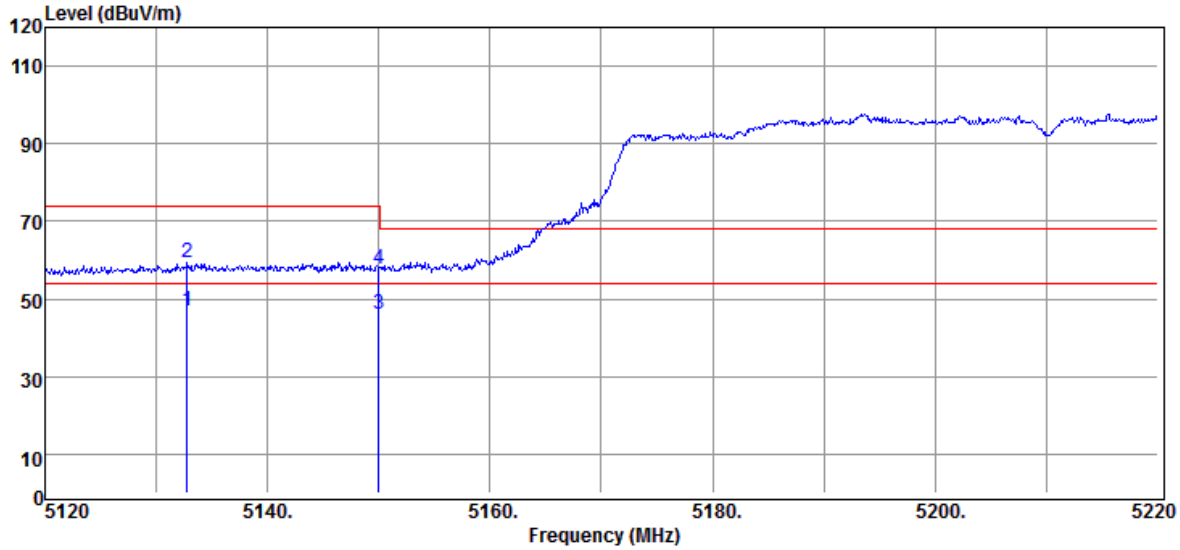
Operation Mode	:802.11AC80 / Band 1	Test Date	:2018-10-18
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5210 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5132.80	Average	33.29	13.58	46.87	54.00	-7.13
5132.80	Peak	45.96	13.58	59.54	74.00	-14.46
5150.00	Average	32.53	13.65	46.18	54.00	-7.82
5150.00	Peak	44.11	13.65	57.76	74.00	-16.24

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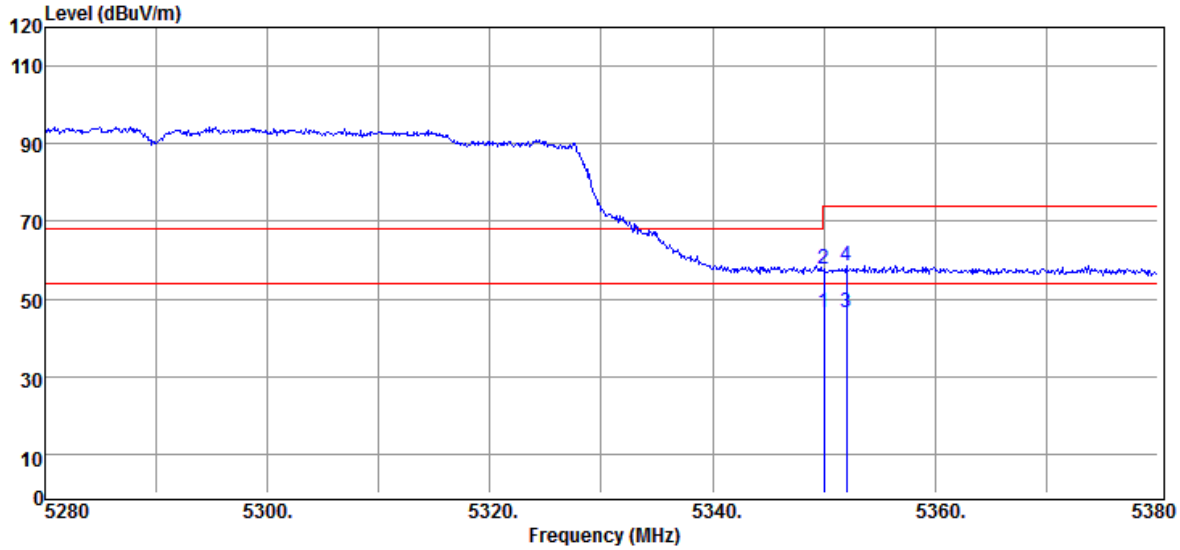
Operation Mode	:802.11AC80 / Band 2	Test Date	:2018-10-18
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5290 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5350.00	Average	32.44	14.16	46.60	54.00	-7.40
5350.00	Peak	43.74	14.16	57.90	74.00	-16.10
5352.00	Average	32.38	14.17	46.55	54.00	-7.45
5352.00	Peak	44.50	14.17	58.67	74.00	-15.33

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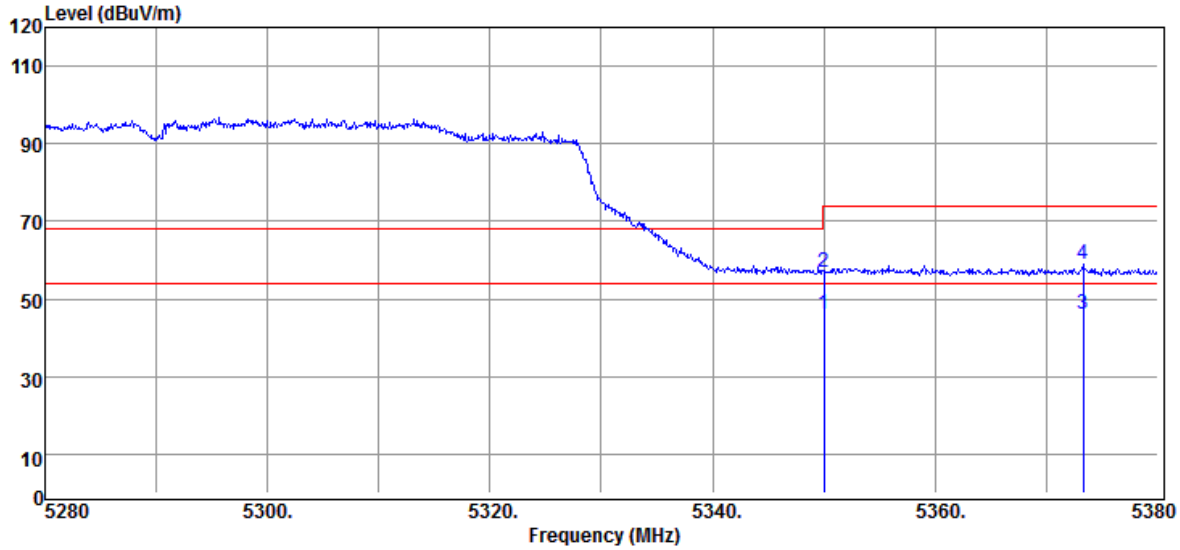
Operation Mode	:802.11AC80 / Band 2	Test Date	:2018-10-18
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5290 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5350.00	Average	32.12	14.16	46.28	54.00	-7.72
5350.00	Peak	42.90	14.16	57.06	74.00	-16.94
5373.30	Average	31.99	14.22	46.21	54.00	-7.79
5373.30	Peak	44.60	14.22	58.82	74.00	-15.18

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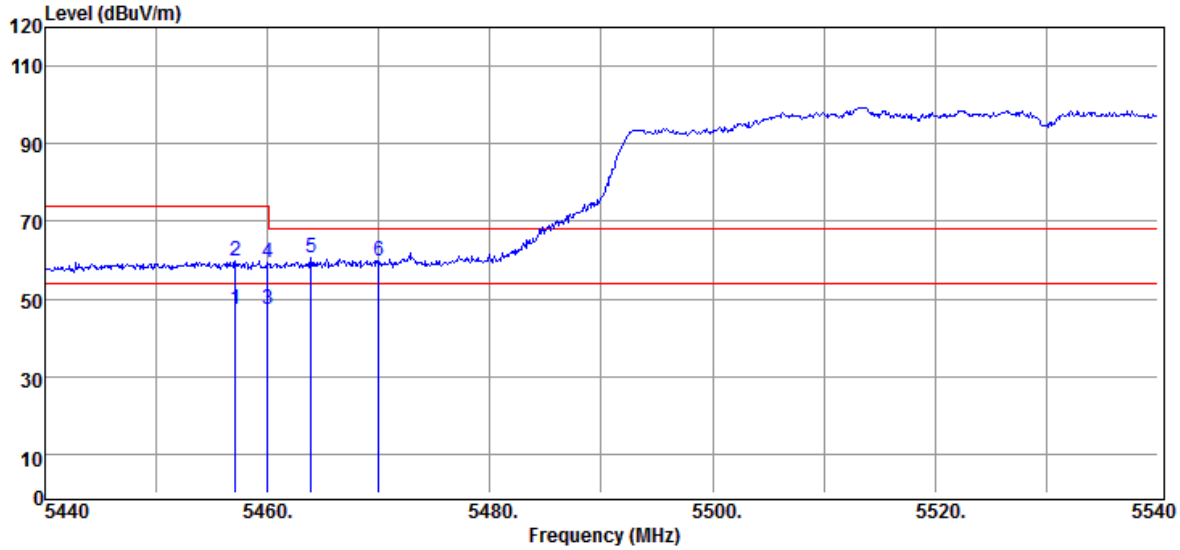
Operation Mode	:802.11AC80 / Band 3	Test Date	:2018-10-18
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5530 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5457.10	Average	33.06	14.31	47.37	54.00	-6.63
5457.10	Peak	45.51	14.31	59.82	74.00	-14.18
5460.00	Average	32.98	14.31	47.29	54.00	-6.71
5460.00	Peak	44.99	14.31	59.30	74.00	-14.70
5463.90	Peak	46.44	14.32	60.76	68.20	-7.44
5470.00	Peak	45.30	14.31	59.61	68.20	-8.59

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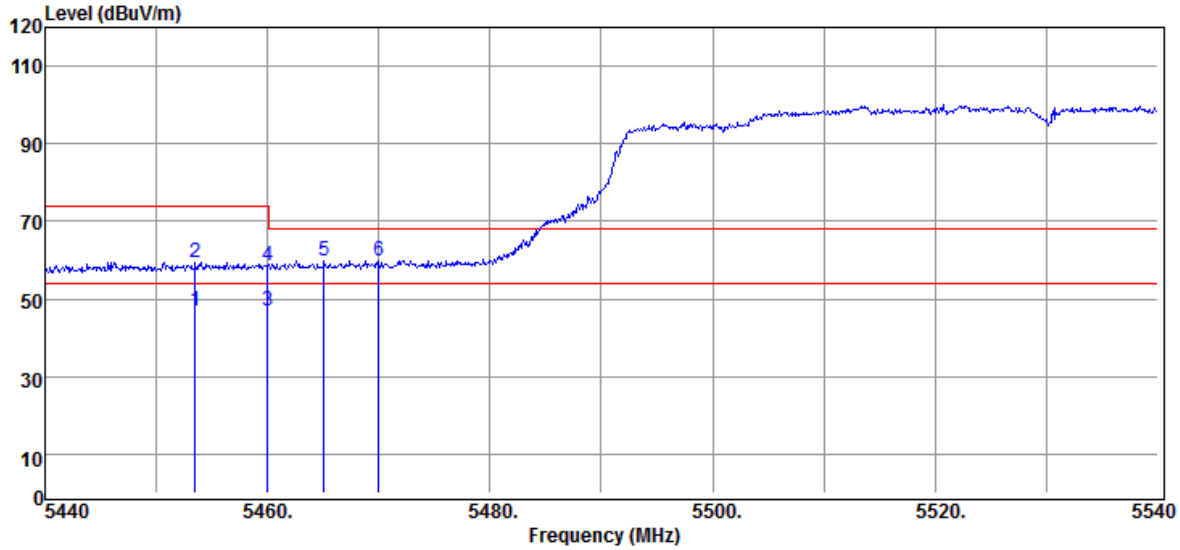
Operation Mode	:802.11AC80 / Band 3	Test Date	:2018-10-18
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5530 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5453.50	Average	32.54	14.31	46.85	54.00	-7.15
5453.50	Peak	45.04	14.31	59.35	74.00	-14.65
5460.00	Average	32.59	14.31	46.90	54.00	-7.10
5460.00	Peak	44.04	14.31	58.35	74.00	-15.65
5465.10	Peak	45.61	14.32	59.93	68.20	-8.27
5470.00	Peak	45.44	14.31	59.75	68.20	-8.45

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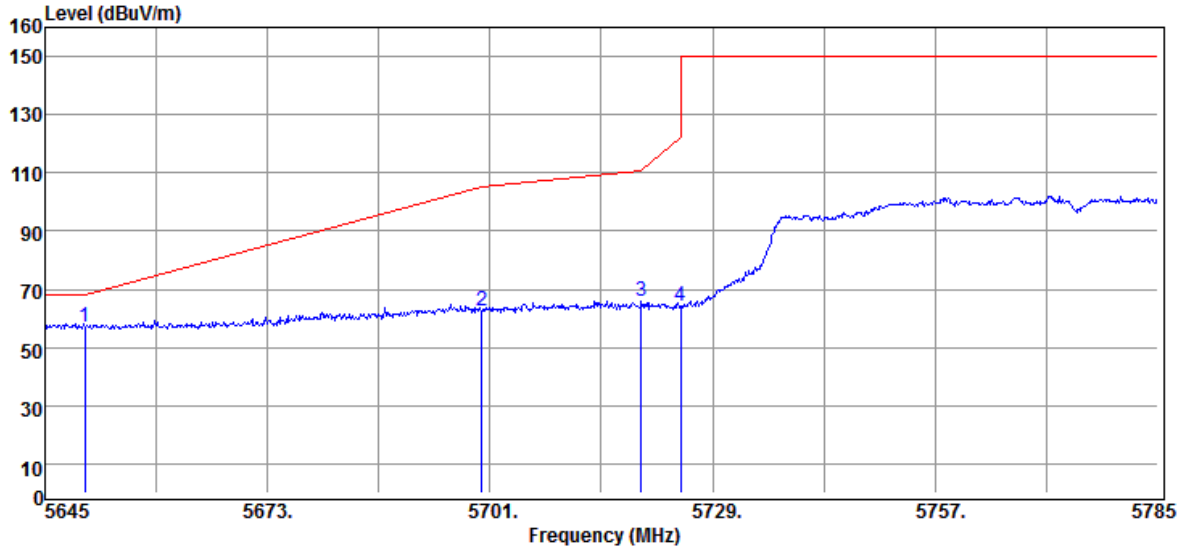
Operation Mode	:802.11AC80 / Band 4	Test Date	:2018-10-18
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5775 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5650.00	Peak	42.82	14.42	57.24	68.20	-10.96
5700.00	Peak	48.35	14.47	62.82	105.20	-42.38
5720.00	Peak	51.32	14.49	65.81	110.80	-44.99
5725.00	Peak	49.55	14.50	64.05	122.20	-58.15

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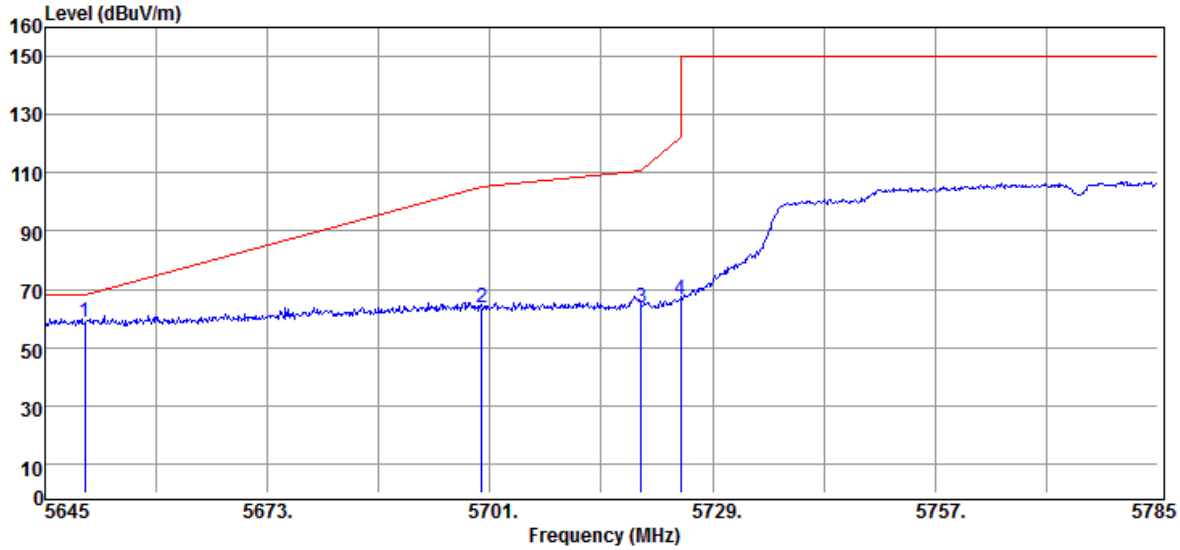
Operation Mode	:802.11AC80 / Band 4	Test Date	:2018-10-18
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5775 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5650.00	Peak	44.27	14.42	58.69	68.20	-9.51
5700.00	Peak	49.28	14.47	63.75	105.20	-41.45
5720.00	Peak	49.44	14.49	63.93	110.80	-46.87
5725.00	Peak	51.66	14.50	66.16	122.20	-56.04

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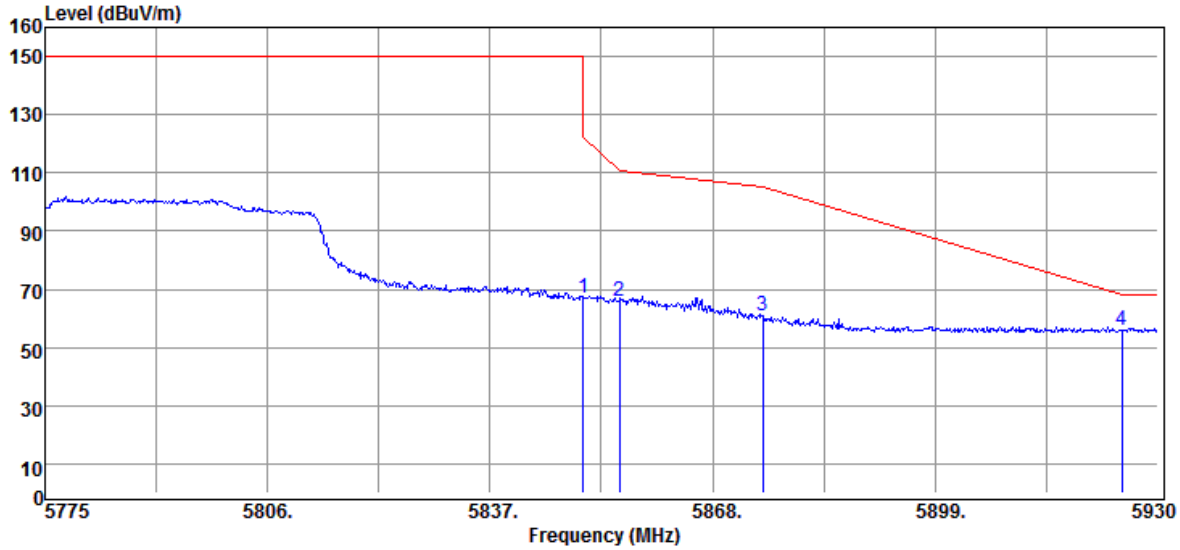
Operation Mode	:802.11AC80 / Band 4	Test Date	:2018-10-18
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5775 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5850.00	Peak	52.13	14.72	66.85	122.20	-55.35
5855.00	Peak	51.32	14.73	66.05	110.80	-44.75
5875.00	Peak	46.08	14.78	60.86	105.20	-44.34
5925.00	Peak	41.13	14.91	56.04	68.20	-12.16

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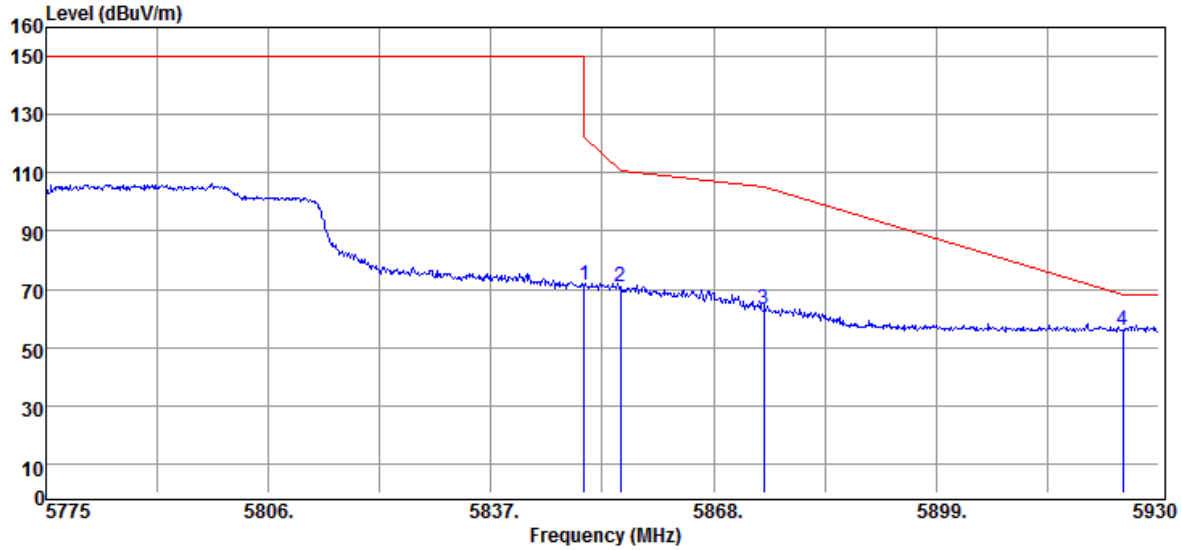
Operation Mode	:802.11AC80 / Band 4	Test Date	:2018-10-18
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5775 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5850.00	Peak	56.97	14.72	71.69	122.20	-50.51
5855.00	Peak	55.88	14.73	70.61	110.80	-40.19
5875.00	Peak	48.59	14.78	63.37	105.20	-41.83
5925.00	Peak	40.86	14.91	55.77	68.20	-12.43

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7 ANTENNA REQUIREMENT

7.1 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.

7.2 Antenna Connected Construction

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

~ End of Report ~

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