

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C 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/A0014

FCC Rule Part: §15.247, Cat: DTS

Issue Date: Feb. 11, 2019

Date of Test: Oct. 11, 2018 ~ Oct. 25, 2018

Date of EUT Re- Oct. 11, 2018

ceived:

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/A0014	Rev.00	Initial creation of document	All	Jan. 31, 2019	Elle Chang
E2/2018/A0014	Rev.01	Revised FCC designation number, frequency range	Page 4,5,8,9	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	
Marketing Name of Host:	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	
Software version:	N/A	
Hardware 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.

WLAN 2.4GHz:

Wi-Fi	Frequency Range	Channels	Modulation Technology
11b/g	2412-2472	13	DSSS, OFDM
11n	HT20 2412-2472	13	OFDM
11n	HT40 2422-2462	9	OFDM
Antenna Designation:	Dipole Antenna; Supplier: Taoglas P/N: N/A; Gain: -4.5dBi		
Modulation type:	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM		
Transition Rate:	802.11 b: 1/2/5.5/11 Mbps 802.11 g: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 72.2Mbps 802.11 n_40MHz: 13.5 - 150.0Mbps		

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1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 DTS Meas. Guidance v05

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.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803 (TAF code 0513)

FCC Registration Number and Designation 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.

1.6 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*9m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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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

2.3.1 Conducted Emissions

The EUT is 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.

2.3.2 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.

2.3.3 Radiated Emissions

The EUT is 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 Configuration of Tested System

Fig. 2-2 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	Bluetooth Test Software	N/A	N/A	N/A	N/A	N/A

3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.205 §15.209 §15.247(d)	Radiated Band Edge and Spurious Emission	Compliant
§15.203 §15.247(b)	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

13 channels are provided for 802.11b, 802.11g and 802.11n HT20

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412 MHz	8	2447 MHz
2	2417 MHz	9	2452 MHz
3	2422 MHz	10	2457 MHz
4	2427 MHz	11	2462 MHz
5	2432 MHz	12	2467 MHz
6	2437 MHz	13	2472 MHz
7	2442 MHz		

7 channels are provided for 802.11n HT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
3	2422 MHz	8	2447 MHz
4	2427 MHz	9	2452 MHz
5	2432 MHz	10	2457 MHz
6	2437 MHz	11	2462 MHz
7	2442 MHz		

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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 and receiving mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case.

RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
802.11g	1 to 13	1,3,11,12,13	OFDM	6

RADIATED EMISSION TEST (ABOVE 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
802.11b	1 to 13	1,3,11,12,13	DSSS	1
802.11g	1 to 13	1,3,11,12,13	OFDM	6
802.11n (HT20)	1 to 13	1,3,11,12,13	OFDM	MCS 0
802.11n (HT40)	3 to 9	3,9,10,11	OFDM	MCS 0

Note:

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

ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
802.11b	1 to 13	1,3,11,12,13	DSSS	1
802.11g	1 to 13	1,3,11,12,13	OFDM	6
802.11n (HT20)	1 to 13	1,3,11,12,13	OFDM	MCS 0
802.11n (HT40)	3 to 9	3,9,10,11	OFDM	MCS 0

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
Peak Output Power	+/- 0.84 dB
6dB Bandwidth	+/- 51.33 Hz
100 KHz Bandwidth Of Frequency Band Edges	+/- 0.84 dB
Peak Power Density	+/- 1.3 dB
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: +/- 2.87 dB
	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: +/- 2.87 dB
	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 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

6.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 limit as below.

And according to §15.33(a) (1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

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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6.2 Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL 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
Highpass Filter	Micro Tronics	BRM50701-01	G008	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

NOTE: N.C.R refers to Not Calibrated Required.

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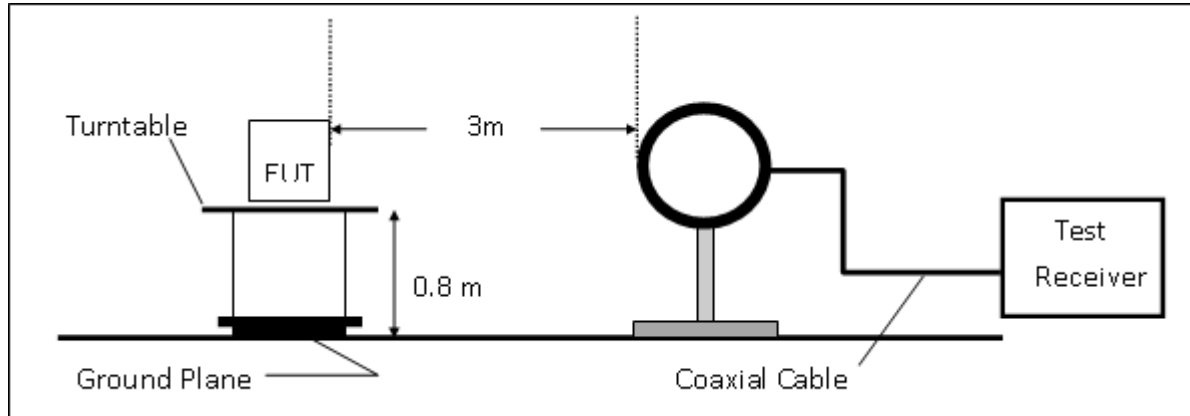
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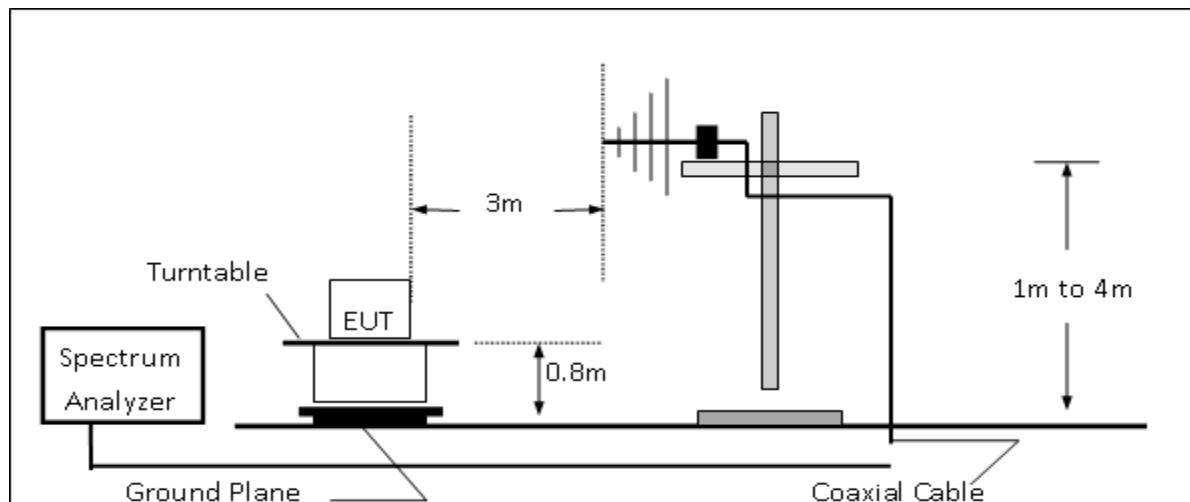
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6.3 Test SET-UP

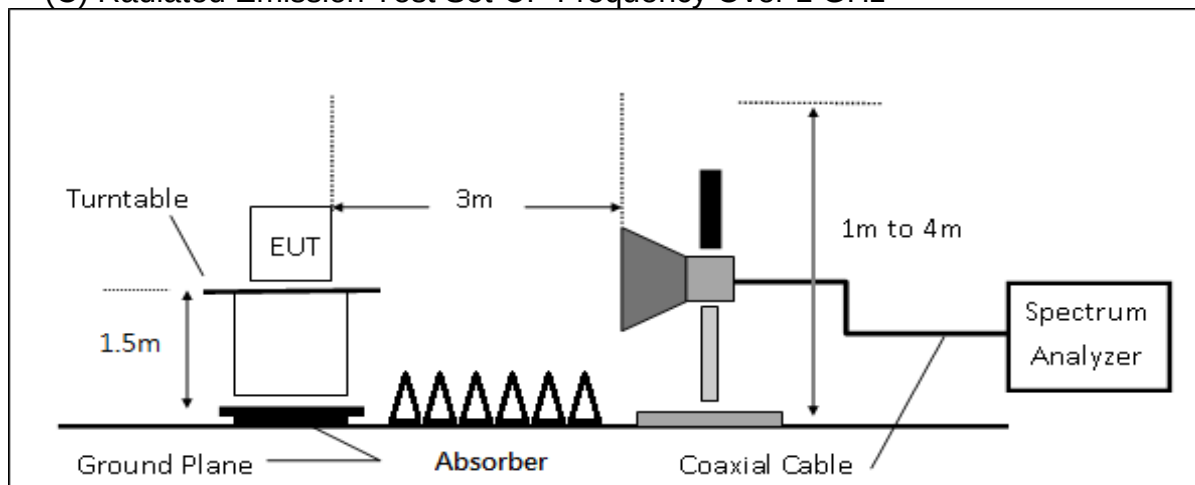
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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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6.4 Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. When 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.
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. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
12. Repeat above procedures until all default test channel measured were complete.

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6.5 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)

6.6 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.

6.7 Measurement Result

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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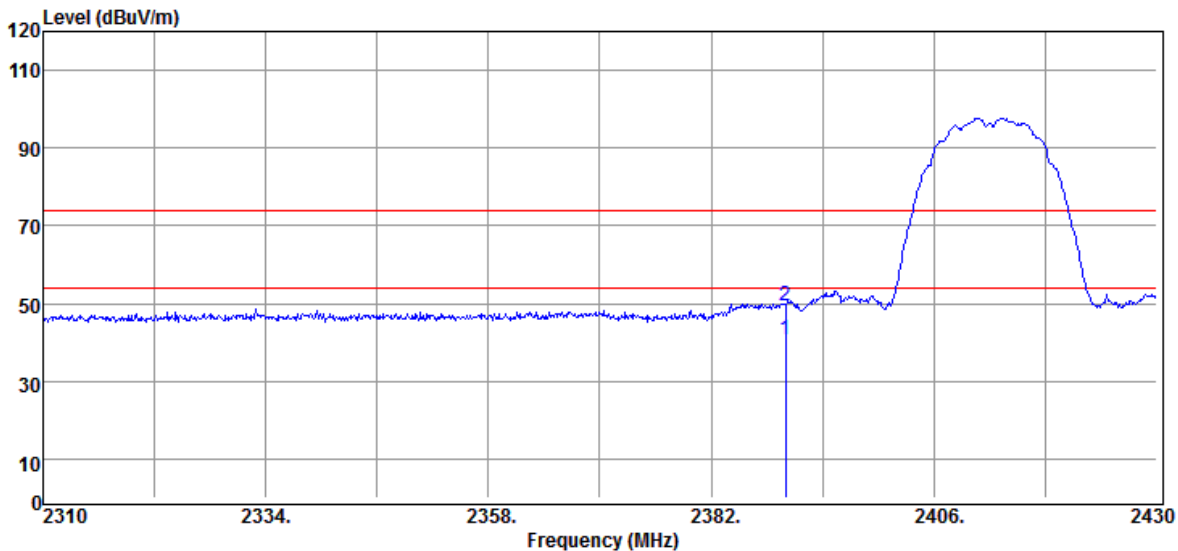
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Radiated Band Edge Measurement Result

Operation Mode	:802.11b	Test Date	:2018-10-17
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2412 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	Average	37.11	3.39	40.50	54.00	-13.50
2390.00	Peak	46.21	3.39	49.60	74.00	-24.40

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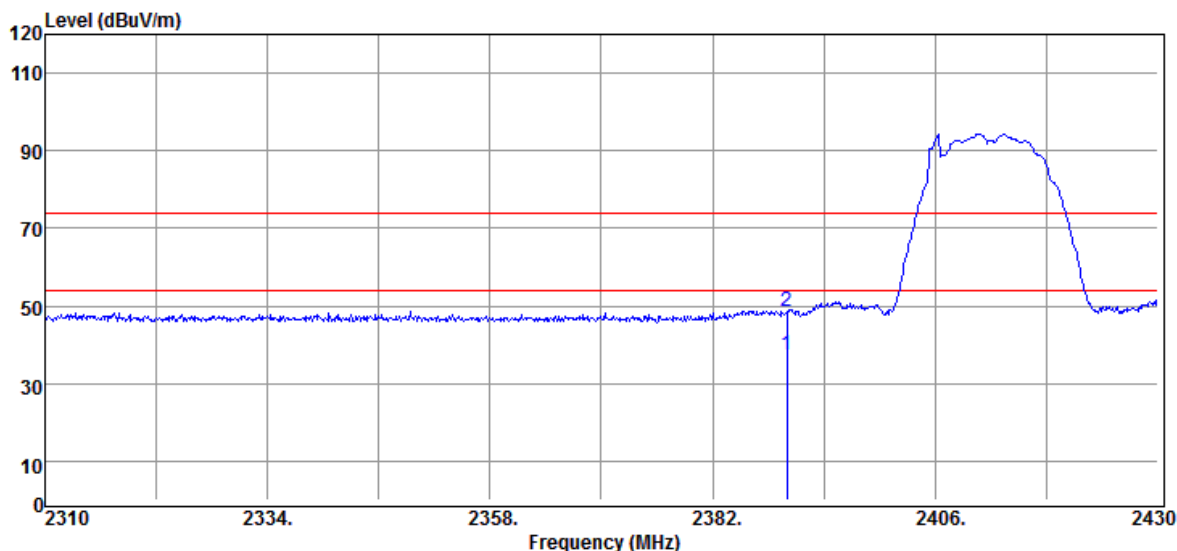
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Operation Mode	:802.11b	Test Date	:2018-10-17
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2412 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	Average	34.14	3.39	37.53	54.00	-16.47
2390.00	Peak	45.11	3.39	48.50	74.00	-25.50

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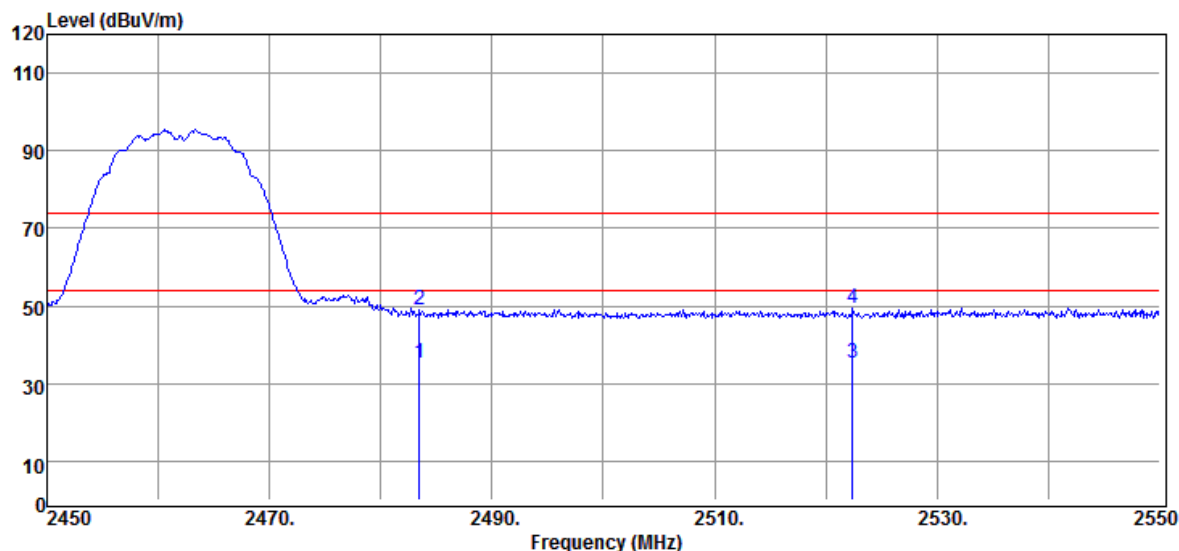
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Operation Mode	:802.11b	Test Date	:2018-10-17
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2462 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	31.45	3.96	35.41	54.00	-18.59
2483.50	Peak	44.96	3.96	48.92	74.00	-25.08
2522.40	Average	30.94	4.24	35.18	54.00	-18.82
2522.40	Peak	45.31	4.24	49.55	74.00	-24.45

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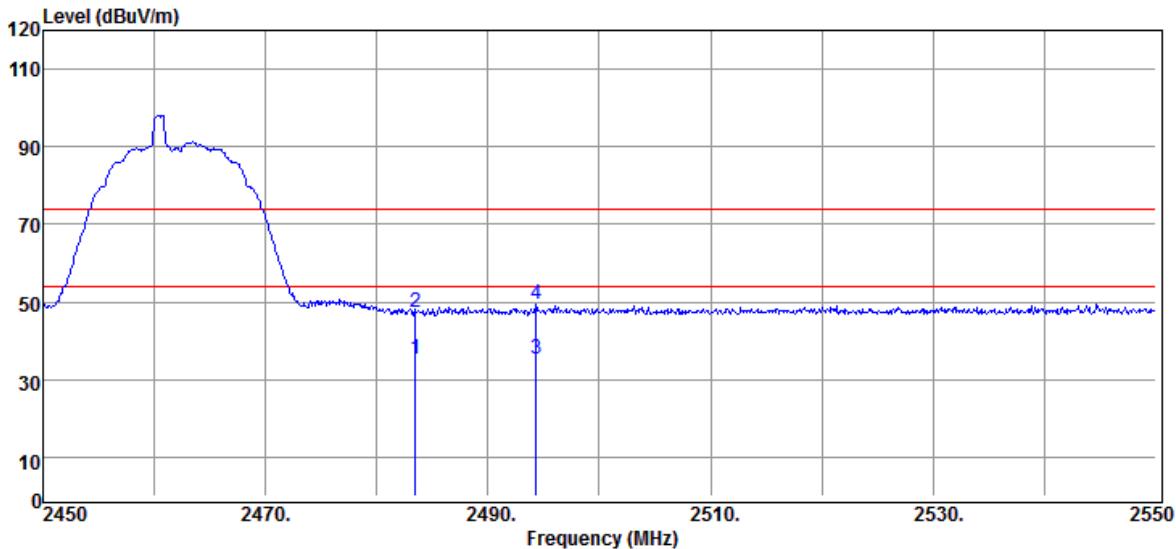
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Operation Mode	:802.11b	Test Date	:2018-10-17
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2462 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	31.36	3.96	35.32	54.00	-18.68
2483.50	Peak	43.27	3.96	47.23	74.00	-26.77
2494.30	Average	31.38	4.04	35.42	54.00	-18.58
2494.30	Peak	45.42	4.04	49.46	74.00	-24.54

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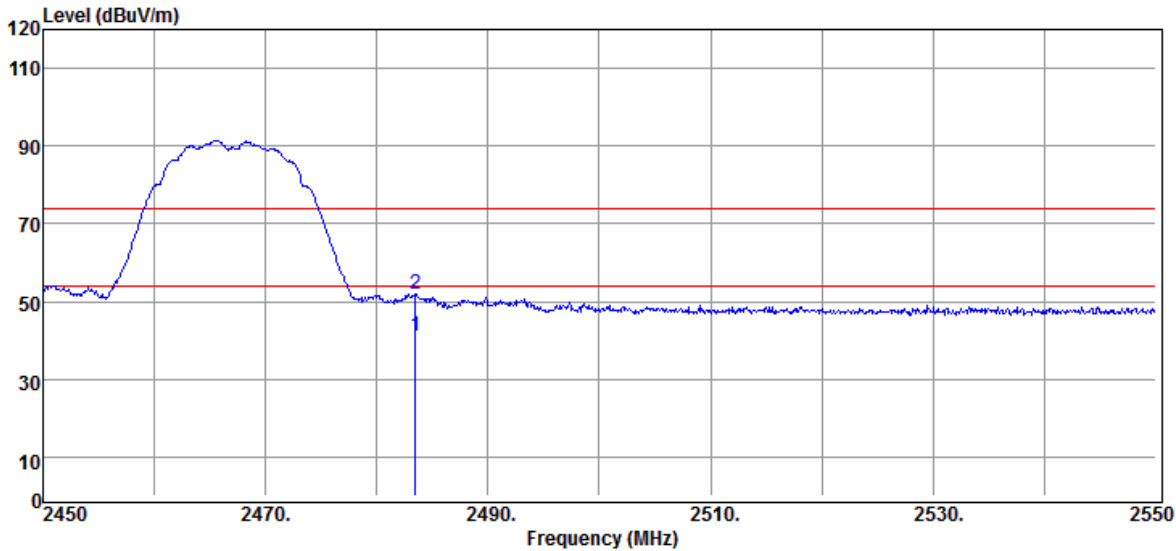
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Operation Mode	:802.11b	Test Date	:2018-10-17
Test Mode	:BE CH 12	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2467 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	37.26	3.96	41.22	54.00	-12.78
2483.50	Peak	47.99	3.96	51.95	74.00	-22.05

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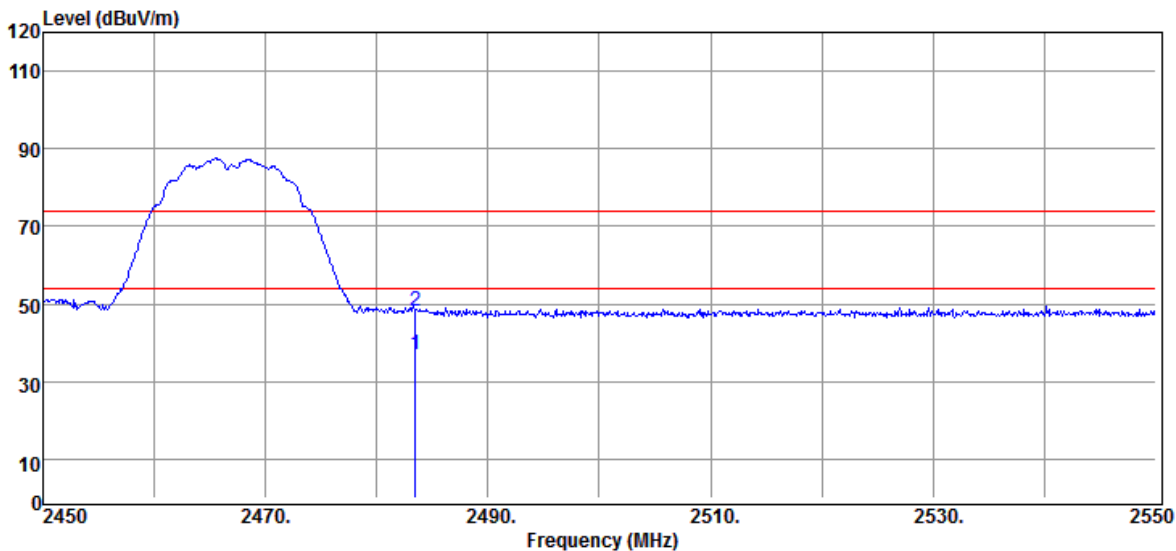
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Operation Mode :802.11b
Test Mode :BE CH 12
EUT Pol :H Plan
Test Channel :2467 MHz

Test Date :2018-10-17
Temp./Humi. :25/60
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.50	Average	32.79	3.96	36.75	54.00	-17.25
2483.50	Peak	44.06	3.96	48.02	74.00	-25.98

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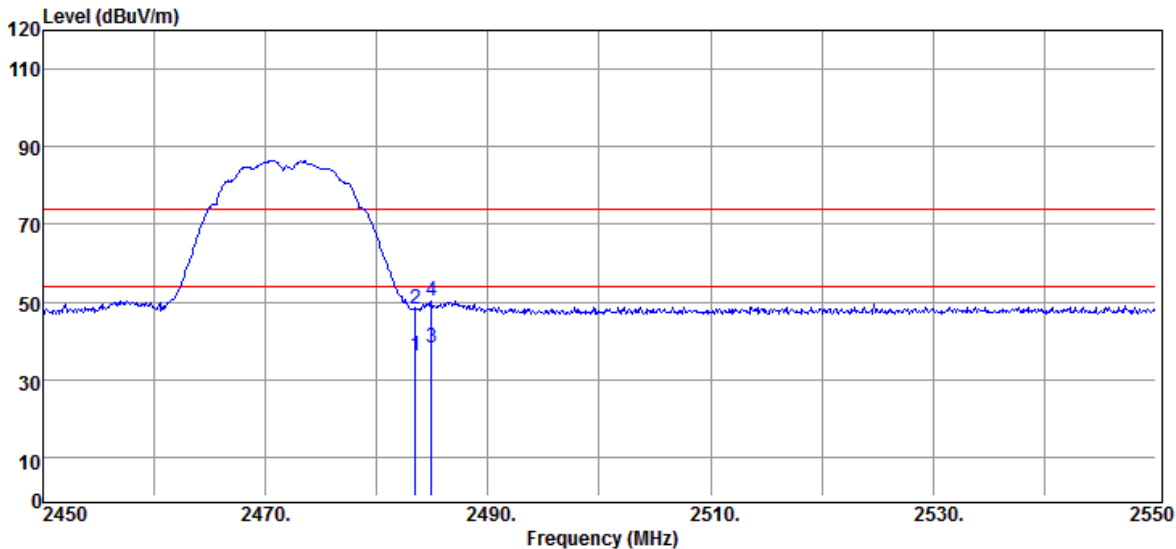
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Operation Mode :802.11b
Test Mode :BE CH 13
EUT Pol :H Plan
Test Channel :2472 MHz

Test Date :2018-10-17
Temp./Humi. :25/60
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level			FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	32.20	3.96	36.16	54.00	-17.84
2483.50	Peak	44.24	3.96	48.20	74.00	-25.80
2484.90	Average	34.15	3.96	38.11	54.00	-15.89
2484.90	Peak	46.46	3.96	50.42	74.00	-23.58

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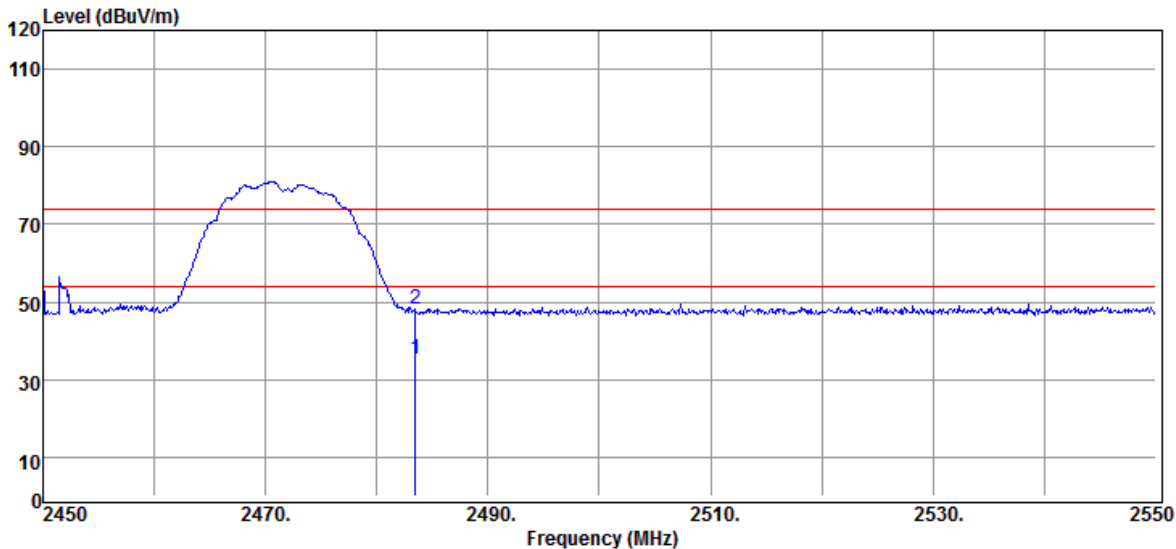
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Operation Mode :802.11b
Test Mode :BE CH 13
EUT Pol :H Plan
Test Channel :2472 MHz

Test Date :2018-10-17
Temp./Humi. :25/60
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	31.24	3.96	35.20	54.00	-18.80
2483.50	Peak	44.09	3.96	48.05	74.00	-25.95

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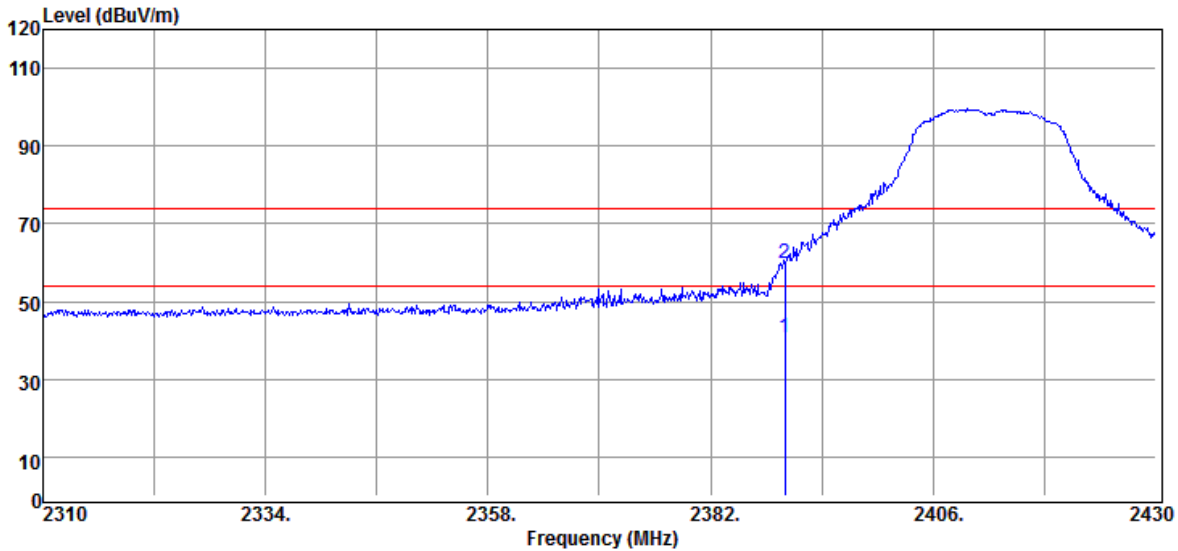
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Operation Mode	:802.11g	Test Date	:2018-10-17
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2412 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	Average	37.40	3.39	40.79	54.00	-13.21
2390.00	Peak	56.22	3.39	59.61	74.00	-14.39

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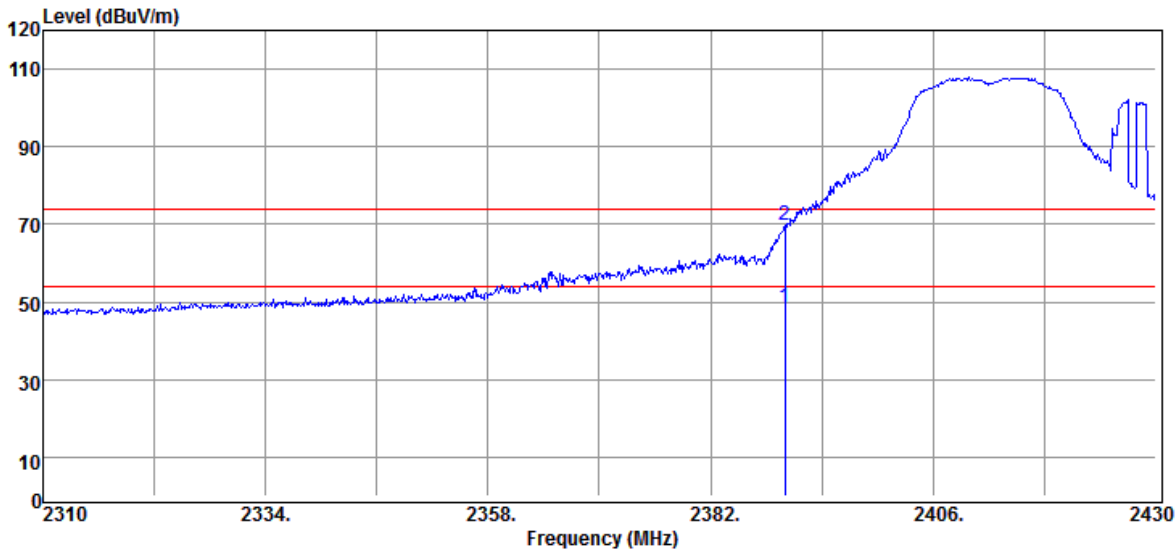
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Operation Mode	:802.11g	Test Date	:2018-10-17
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2412 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level			FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2390.00	Average	45.04	3.39	48.43	54.00	-5.57
2390.00	Peak	66.37	3.39	69.76	74.00	-4.24

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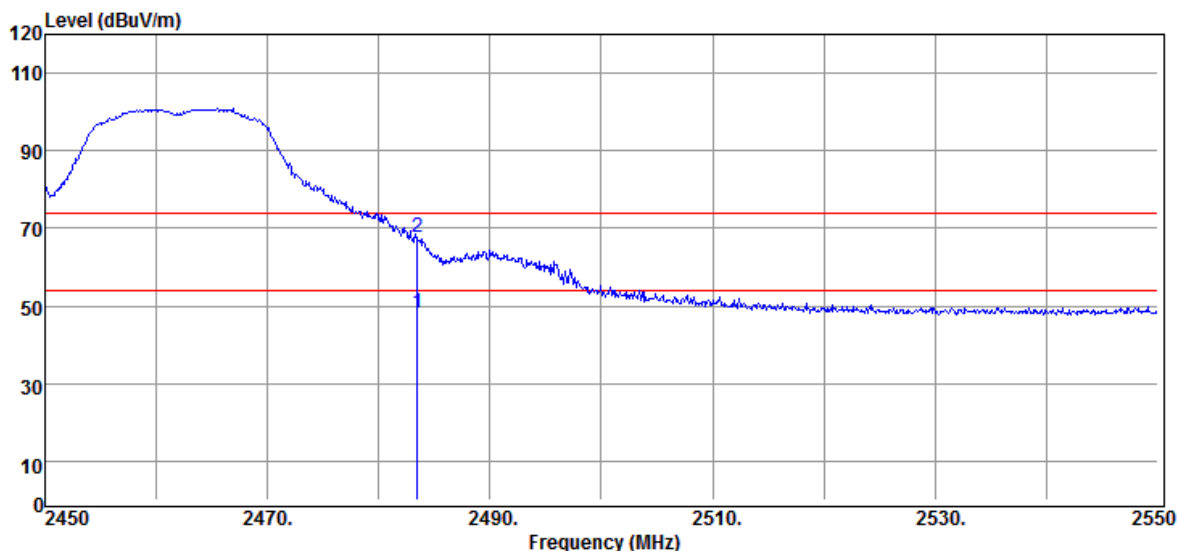
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Operation Mode	:802.11g	Test Date	:2018-10-17
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2462 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	44.07	3.96	48.03	54.00	-5.97
2483.50	Peak	63.89	3.96	67.85	74.00	-6.15

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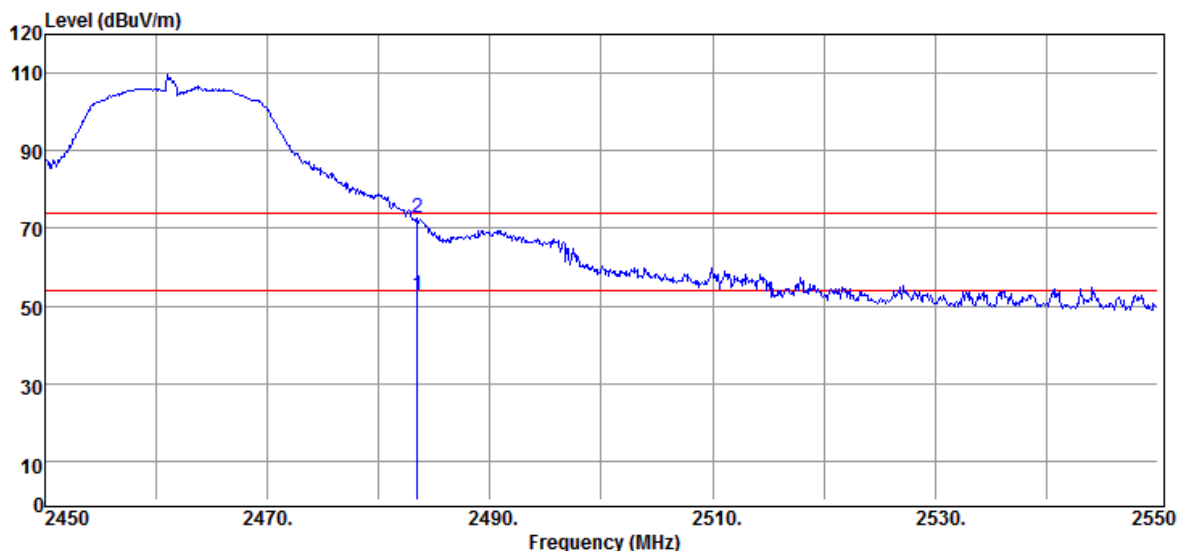
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Operation Mode	:802.11g	Test Date	:2018-10-17
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2462 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level			FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.50	Average	48.91	3.96	52.87	54.00	-1.13
2483.50	Peak	68.76	3.96	72.72	74.00	-1.28

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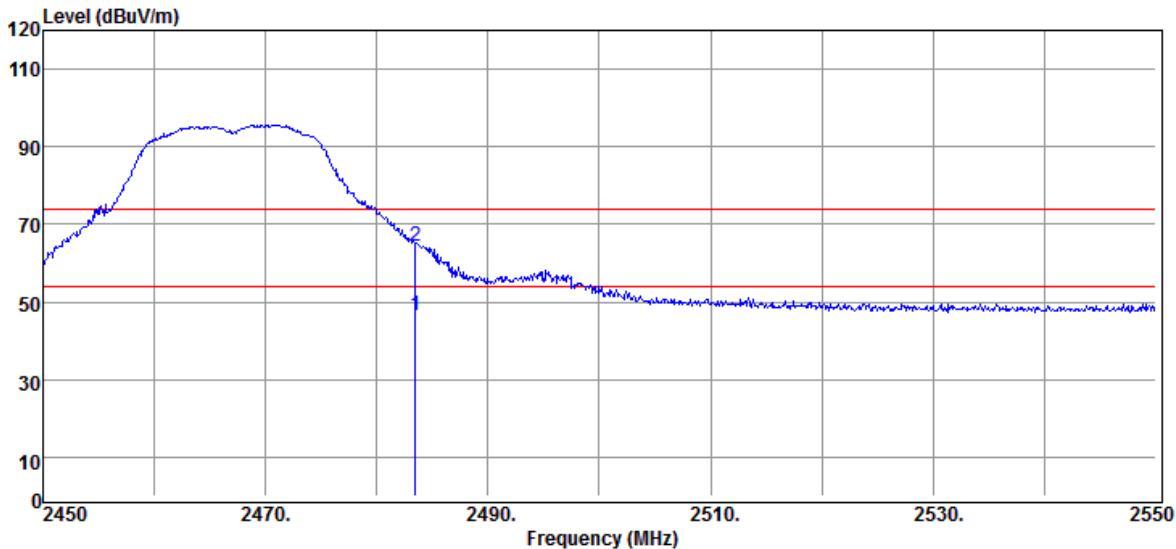
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Operation Mode :802.11g
Test Mode :BE CH 12
EUT Pol :H Plan
Test Channel :2467 MHz

Test Date :2018-10-17
Temp./Humi. :25/60
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	42.53	3.96	46.49	54.00	-7.51
2483.50	Peak	60.24	3.96	64.20	74.00	-9.80

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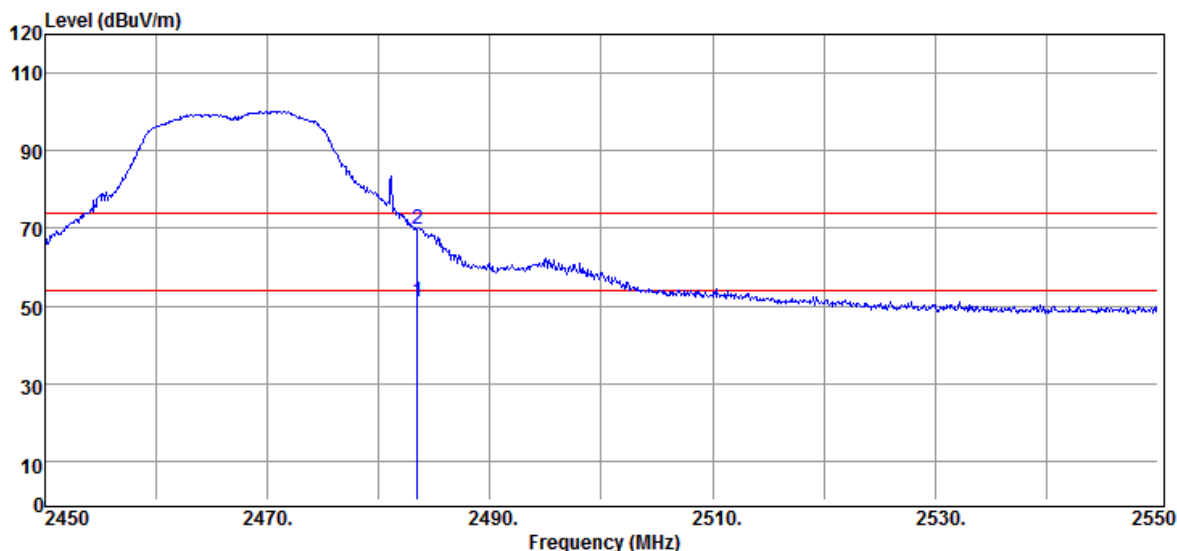
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Operation Mode	:802.11g	Test Date	:2018-10-17
Test Mode	:BE CH 12	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2467 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	46.93	3.96	50.89	54.00	-3.11
2483.50	Peak	65.82	3.96	69.78	74.00	-4.22

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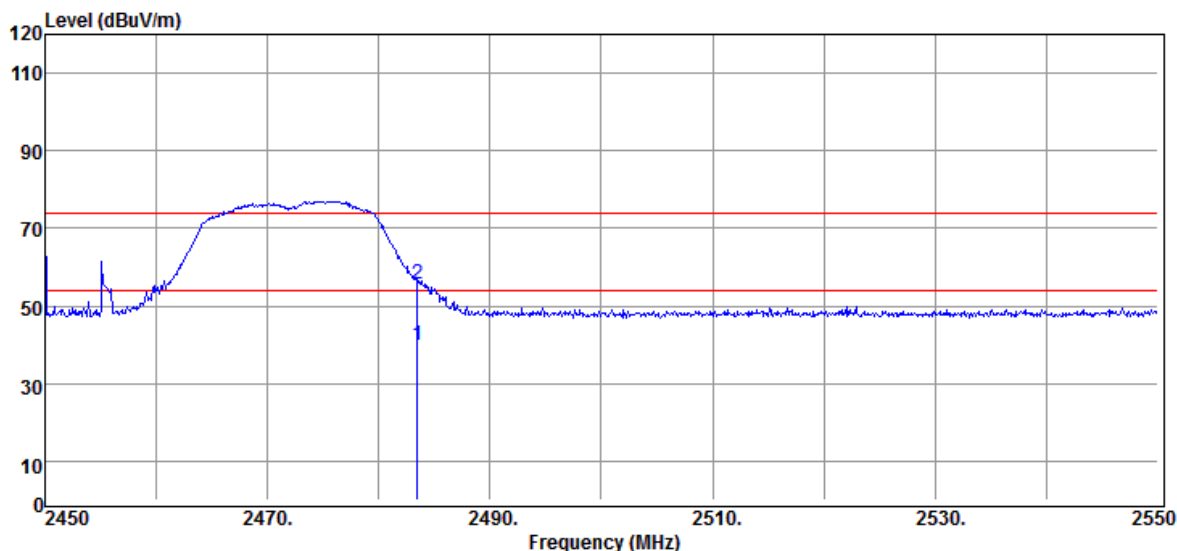
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Operation Mode	:802.11g	Test Date	:2018-10-17
Test Mode	:BE CH 13	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2472 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	36.10	3.96	40.06	54.00	-13.94
2483.50	Peak	51.84	3.96	55.80	74.00	-18.20

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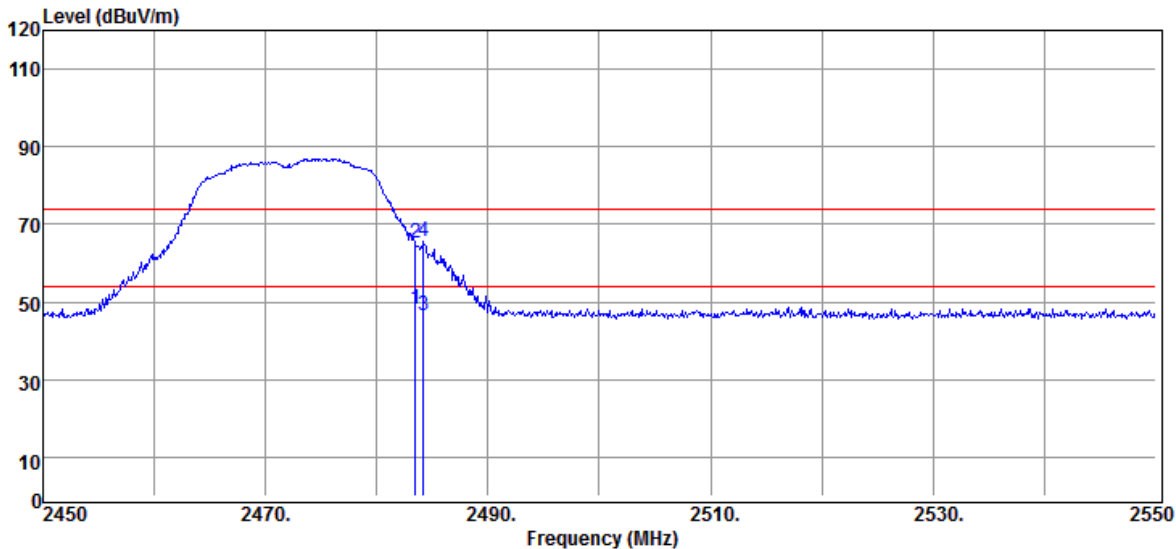
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Operation Mode :802.11g
Test Mode :BE CH 13
EUT Pol :H Plan
Test Channel :2472 MHz

Test Date :2018-10-17
Temp./Humi. :25/60
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.50	Average	44.35	3.96	48.31	54.00	-5.69
2483.50	Peak	61.08	3.96	65.04	74.00	-8.96
2484.20	Average	42.67	3.96	46.63	54.00	-7.37
2484.20	Peak	61.67	3.96	65.63	74.00	-8.37

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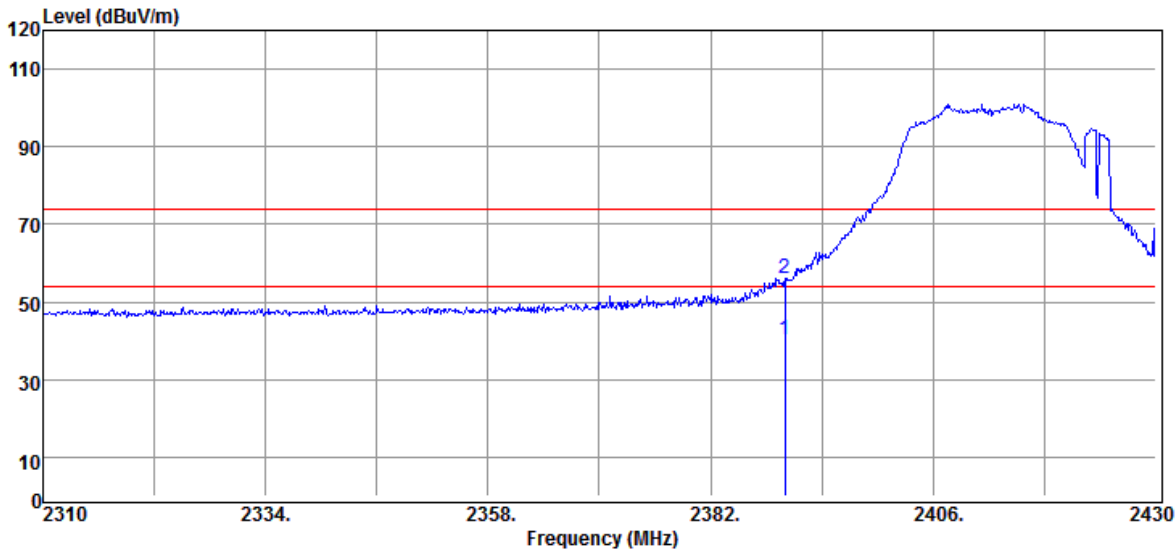
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Operation Mode	:802.11n20	Test Date	:2018-10-17
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2412 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	Average	36.90	3.39	40.29	54.00	-13.71
2390.00	Peak	52.86	3.39	56.25	74.00	-17.75

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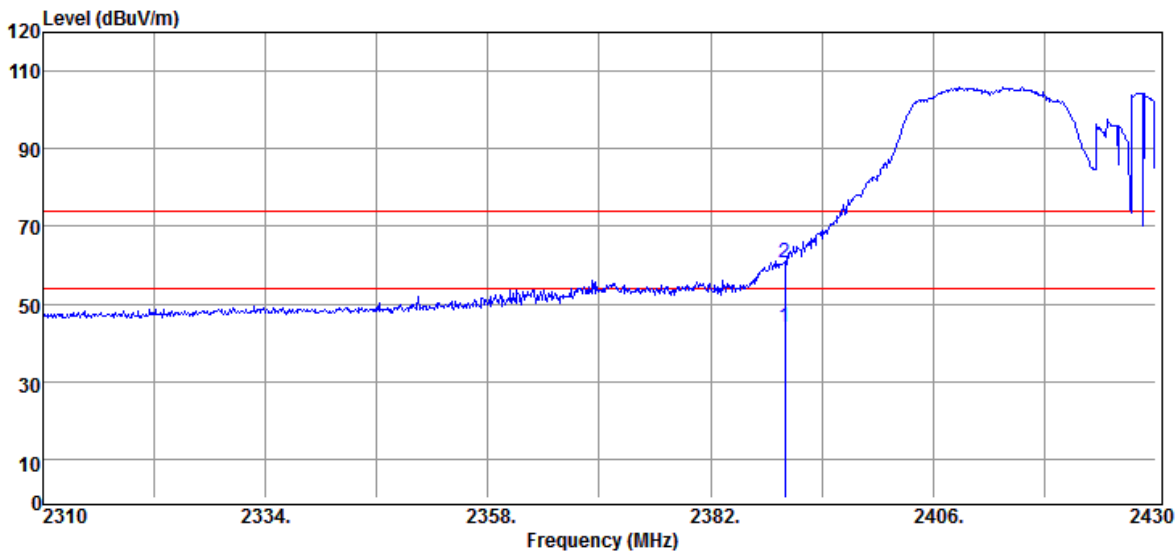
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Operation Mode	:802.11n20	Test Date	:2018-10-17
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2412 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level			FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	Average	40.65	3.39	44.04	54.00	-9.96
2390.00	Peak	57.31	3.39	60.70	74.00	-13.30

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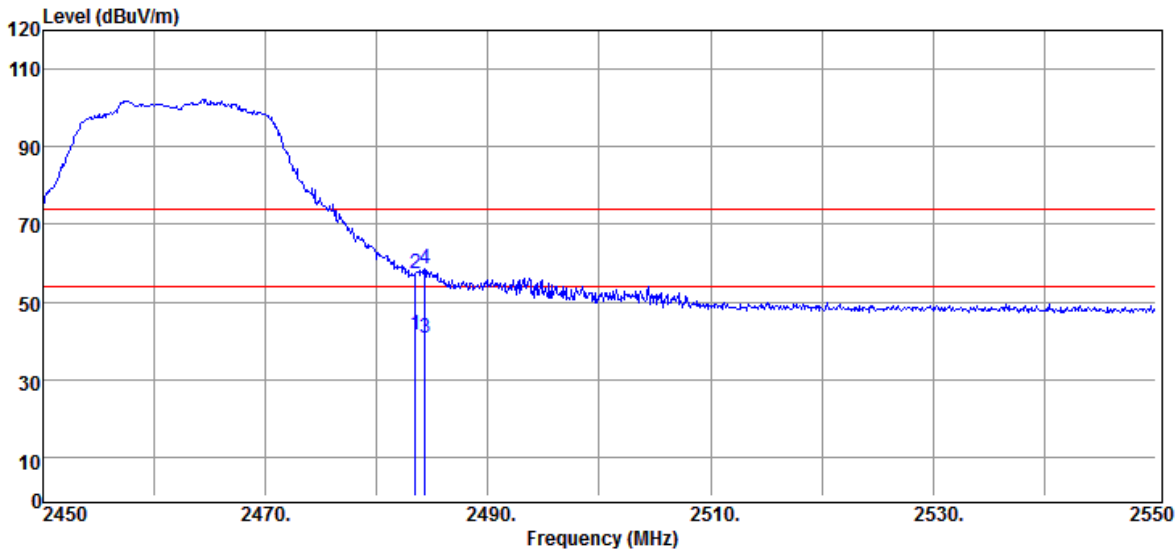
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Operation Mode	:802.11n20	Test Date	:2018-10-17
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2462 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	37.54	3.96	41.50	54.00	-12.50
2483.50	Peak	53.38	3.96	57.34	74.00	-16.66
2484.30	Average	36.68	3.96	40.64	54.00	-13.36
2484.30	Peak	54.52	3.96	58.48	74.00	-15.52

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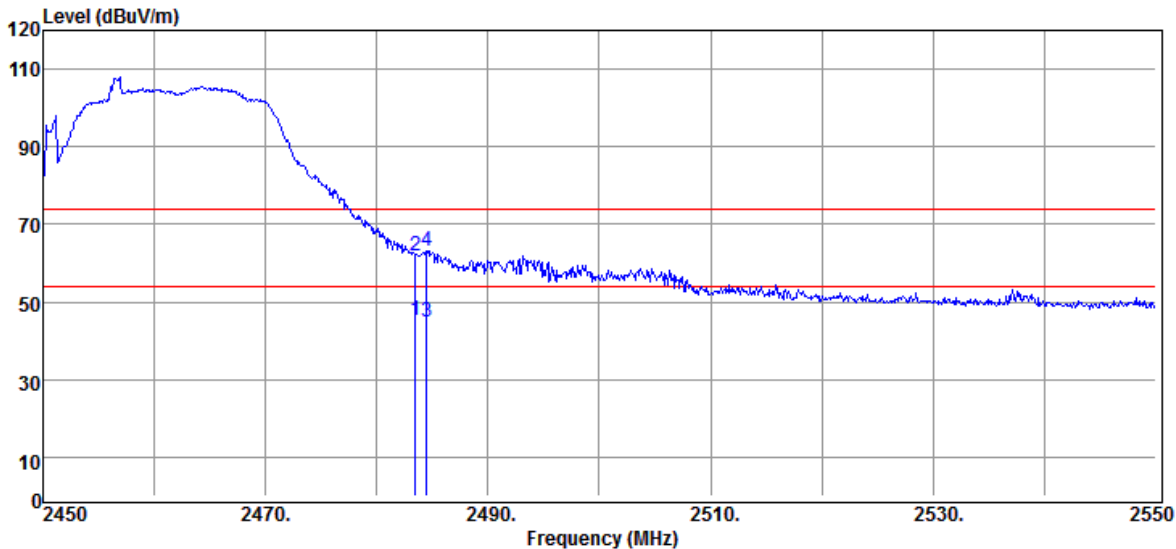
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Operation Mode	:802.11n20	Test Date	:2018-10-17
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2462 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	41.43	3.96	45.39	54.00	-8.61
2483.50	Peak	58.09	3.96	62.05	74.00	-11.95
2484.50	Average	40.87	3.96	44.83	54.00	-9.17
2484.50	Peak	59.29	3.96	63.25	74.00	-10.75

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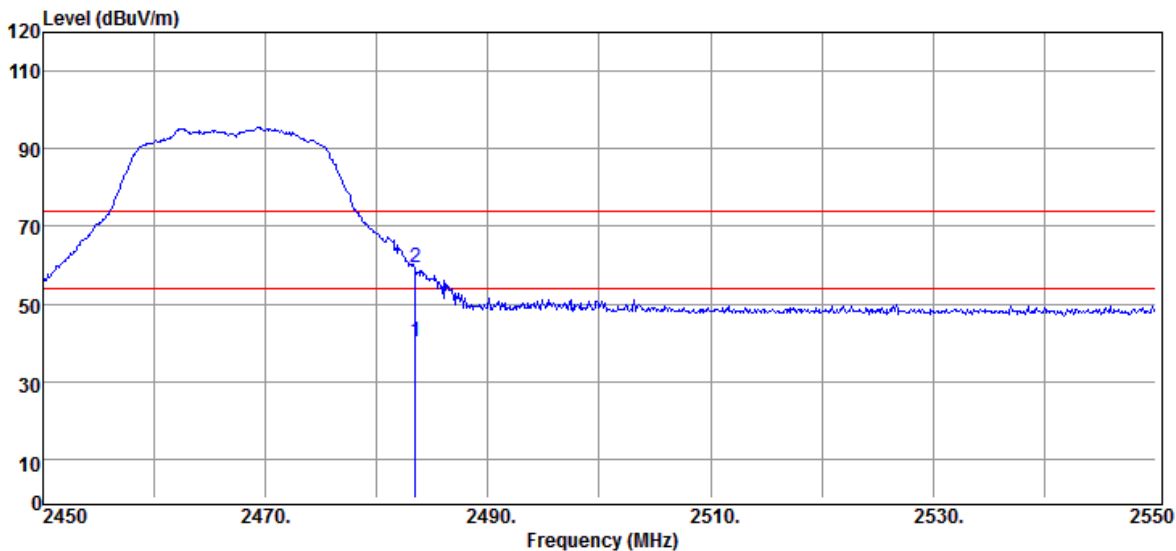
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Operation Mode :802.11n20
Test Mode :BE CH 12
EUT Pol :H Plan
Test Channel :2467 MHz

Test Date :2018-10-17
Temp./Humi. :25/60
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	36.15	3.96	40.11	54.00	-13.89
2483.50	Peak	55.22	3.96	59.18	74.00	-14.82

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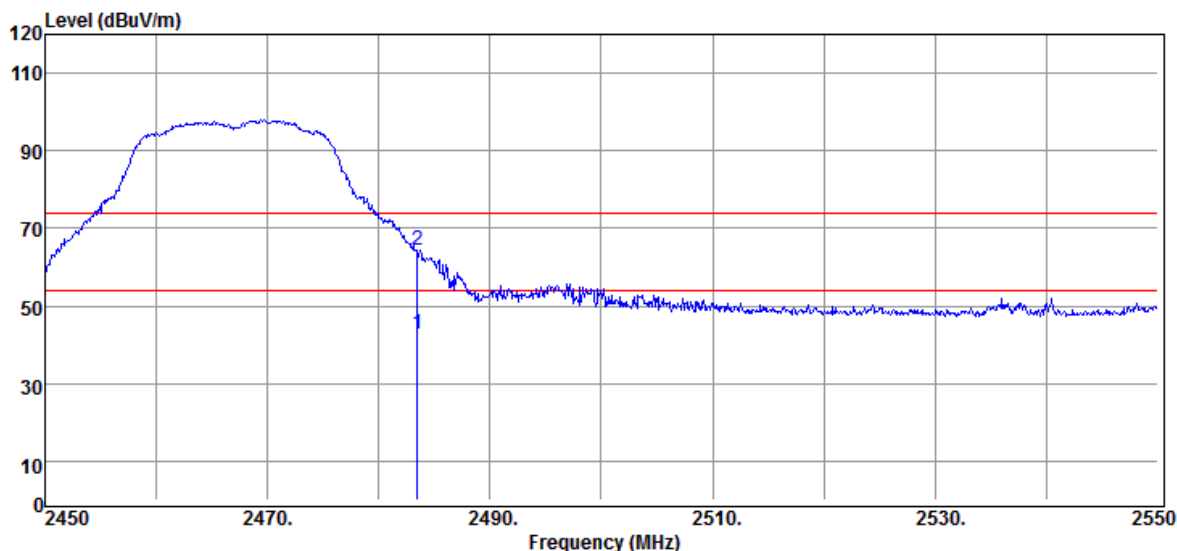
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Operation Mode :802.11n20
Test Mode :BE CH 12
EUT Pol :H Plan
Test Channel :2467 MHz

Test Date :2018-10-17
Temp./Humi. :25/60
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	38.86	3.96	42.82	54.00	-11.18
2483.50	Peak	60.47	3.96	64.43	74.00	-9.57

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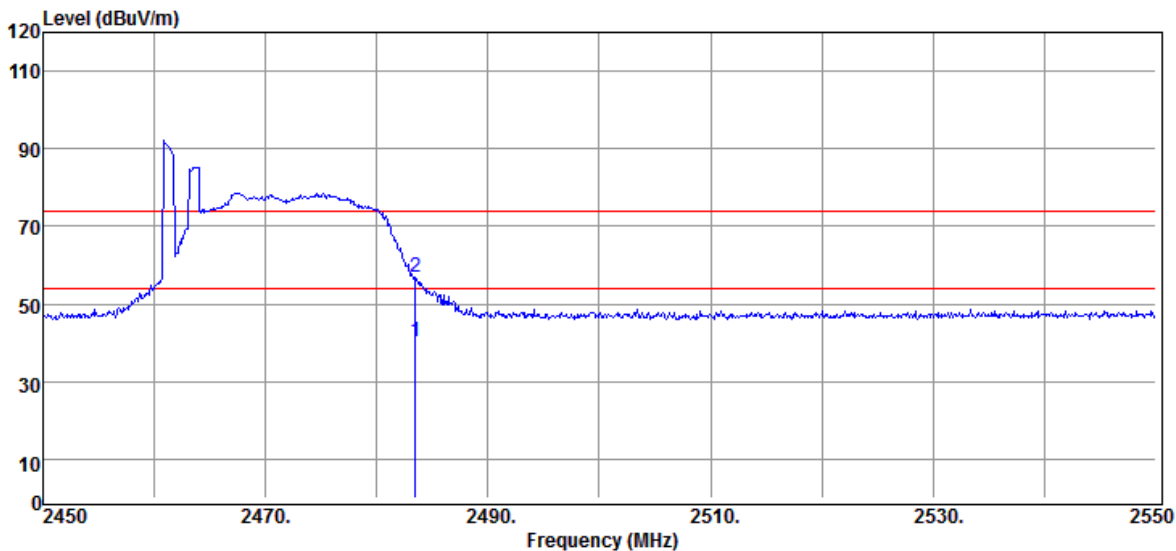
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Operation Mode :802.11n20
Test Mode :BE CH 13
EUT Pol :H Plan
Test Channel :2472 MHz

Test Date :2018-10-17
Temp./Humi. :25/60
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	36.28	3.96	40.24	54.00	-13.76
2483.50	Peak	53.00	3.96	56.96	74.00	-17.04

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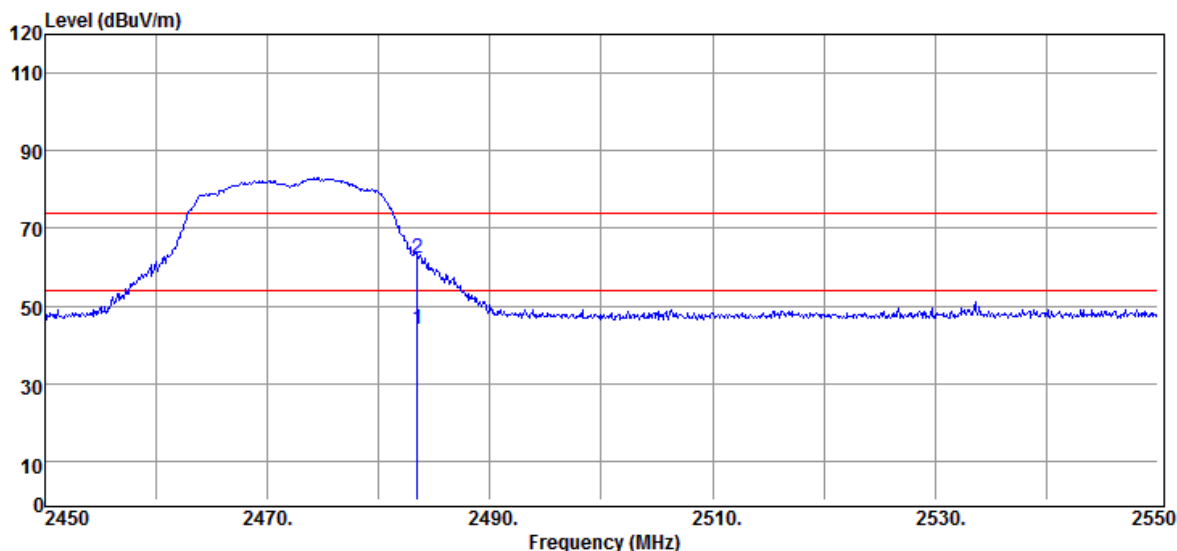
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Operation Mode :802.11n20
Test Mode :BE CH 13
EUT Pol :H Plan
Test Channel :2472 MHz

Test Date :2018-10-17
Temp./Humi. :25/60
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	40.09	3.96	44.05	54.00	-9.95
2483.50	Peak	58.52	3.96	62.48	74.00	-11.52

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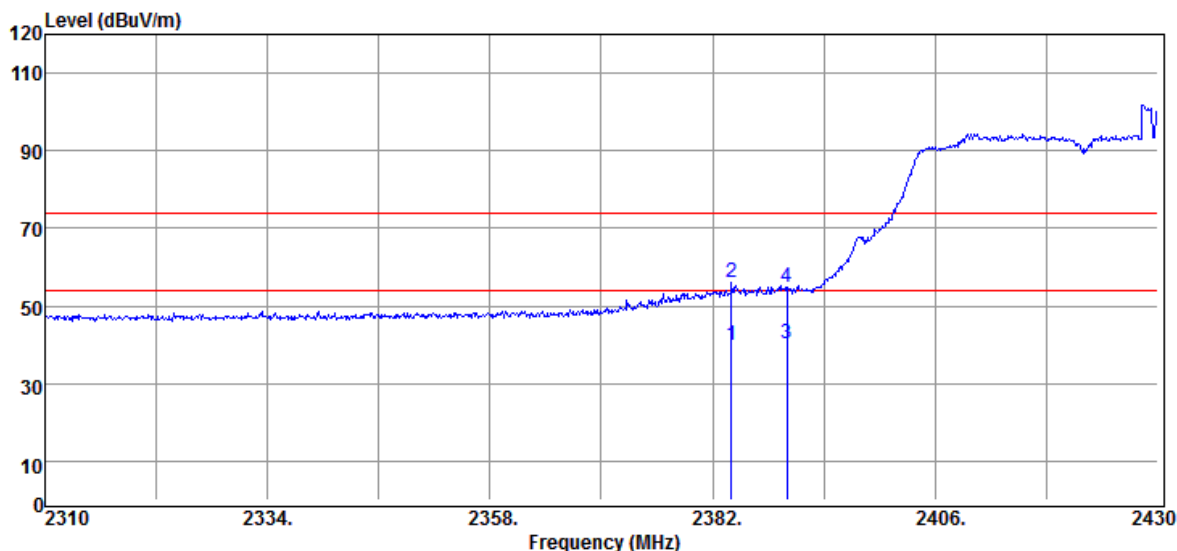
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Operation Mode	:802.11n40	Test Date	:2018-10-17
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2422 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level			FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2384.04	Average	36.34	3.37	39.71	54.00	-14.29
2384.04	Peak	52.66	3.37	56.03	74.00	-17.97
2390.00	Average	36.92	3.39	40.31	54.00	-13.69
2390.00	Peak	51.56	3.39	54.95	74.00	-19.05

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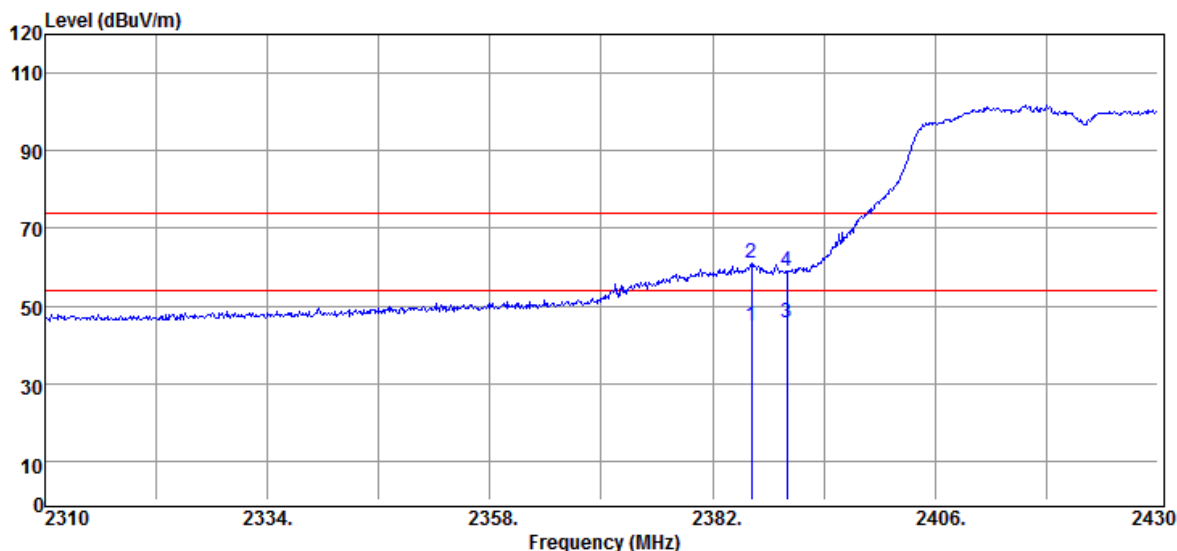
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Operation Mode	:802.11n40	Test Date	:2018-10-17
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2422 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2386.20	Average	41.64	3.39	45.03	54.00	-8.97
2386.20	Peak	57.56	3.39	60.95	74.00	-13.05
2390.00	Average	42.31	3.39	45.70	54.00	-8.30
2390.00	Peak	55.51	3.39	58.90	74.00	-15.10

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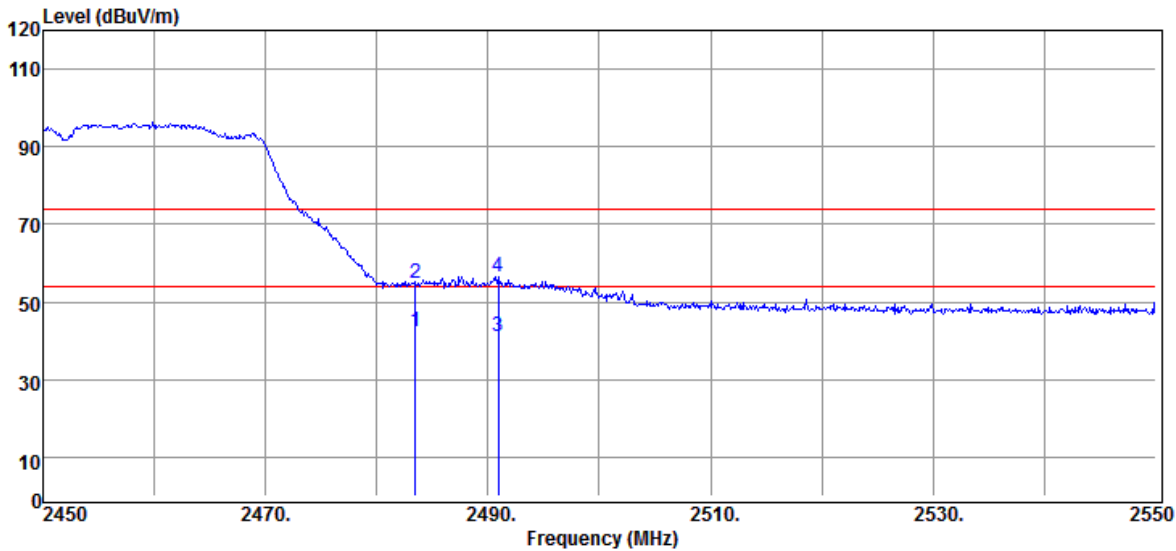
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Operation Mode	:802.11n40	Test Date	:2018-10-17
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2452 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	38.37	3.96	42.33	54.00	-11.67
2483.50	Peak	50.79	3.96	54.75	74.00	-19.25
2490.90	Average	37.01	4.01	41.02	54.00	-12.98
2490.90	Peak	52.57	4.01	56.58	74.00	-17.42

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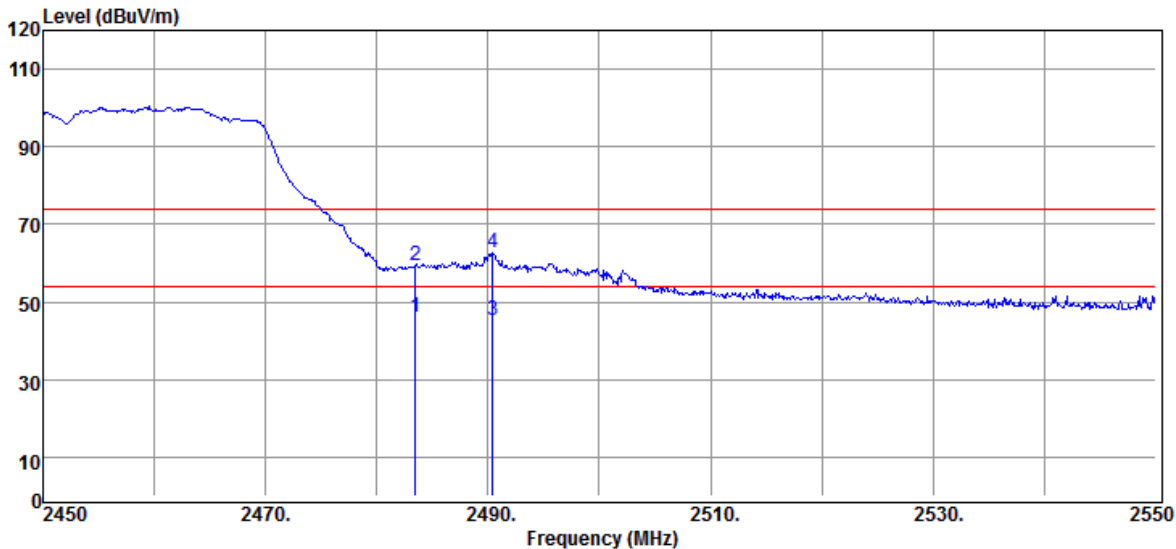
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Operation Mode	:802.11n40	Test Date	:2018-10-17
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2452 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.50	Average	42.21	3.96	46.17	54.00	-7.83
2483.50	Peak	55.51	3.96	59.47	74.00	-14.53
2490.40	Average	41.24	4.01	45.25	54.00	-8.75
2490.40	Peak	58.67	4.01	62.68	74.00	-11.32

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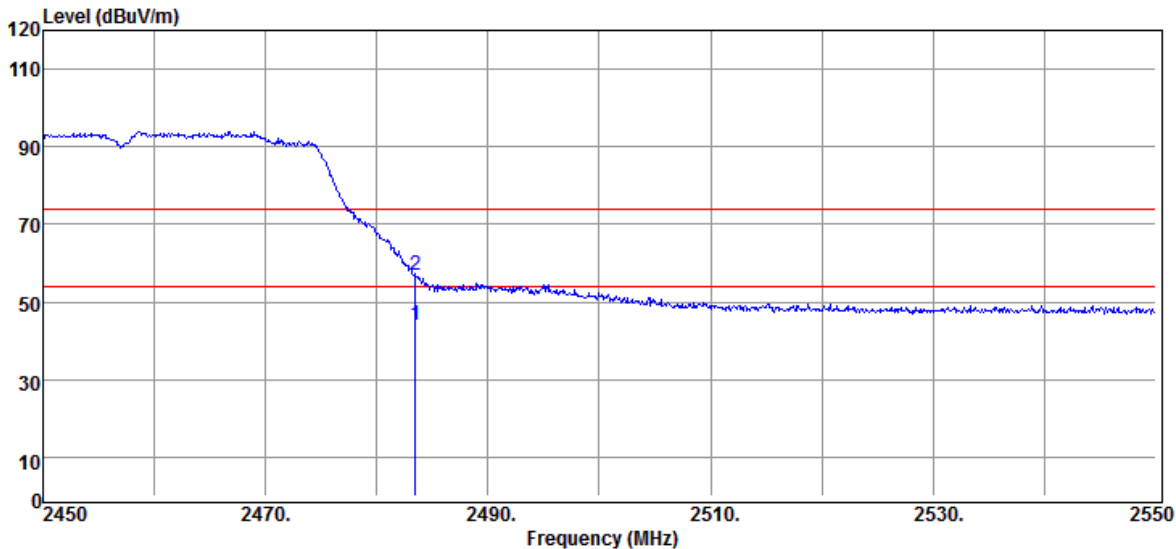
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Operation Mode :802.11n40
Test Mode :BE CH 10
EUT Pol :H Plan
Test Channel :2457 MHz

Test Date :2018-10-17
Temp./Humi. :25/60
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	40.15	3.96	44.11	54.00	-9.89
2483.50	Peak	52.89	3.96	56.85	74.00	-17.15

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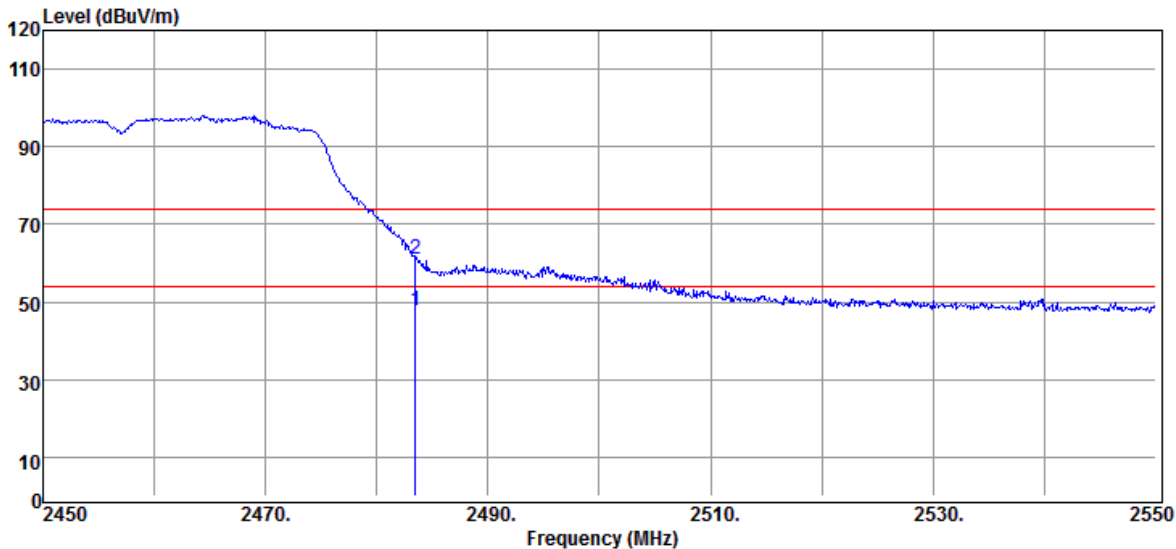
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Operation Mode :802.11n40
Test Mode :BE CH 10
EUT Pol :H Plan
Test Channel :2457 MHz

Test Date :2018-10-17
Temp./Humi. :25/60
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	43.77	3.96	47.73	54.00	-6.27
2483.50	Peak	57.13	3.96	61.09	74.00	-12.91

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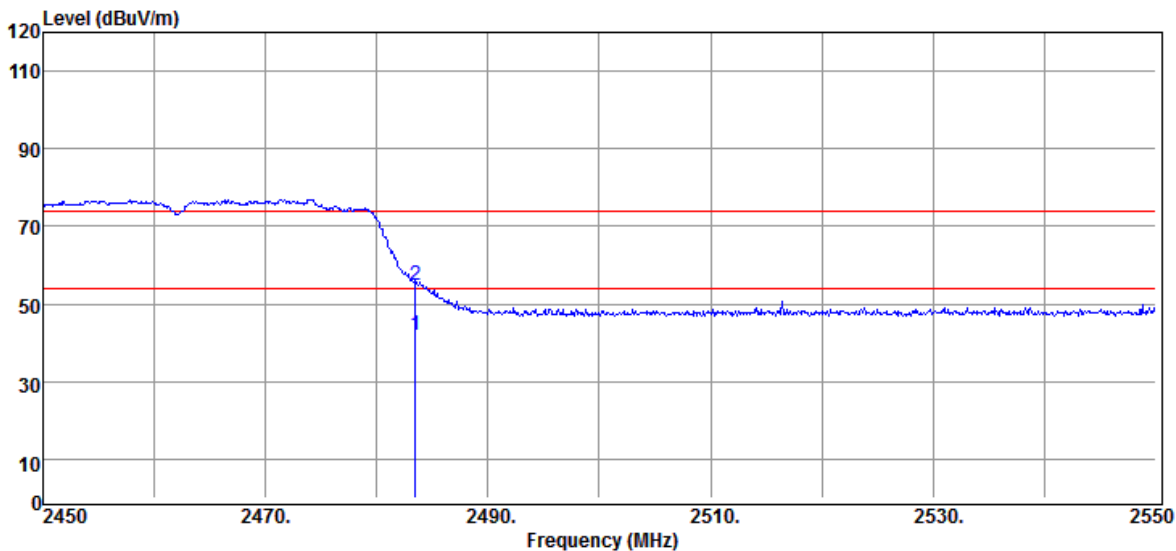
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Operation Mode :802.11n40
Test Mode :BE CH 11
EUT Pol :H Plan
Test Channel :2462 MHz

Test Date :2018-10-17
Temp./Humi. :25/60
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	37.95	3.96	41.91	54.00	-12.09
2483.50	Peak	50.98	3.96	54.94	74.00	-19.06

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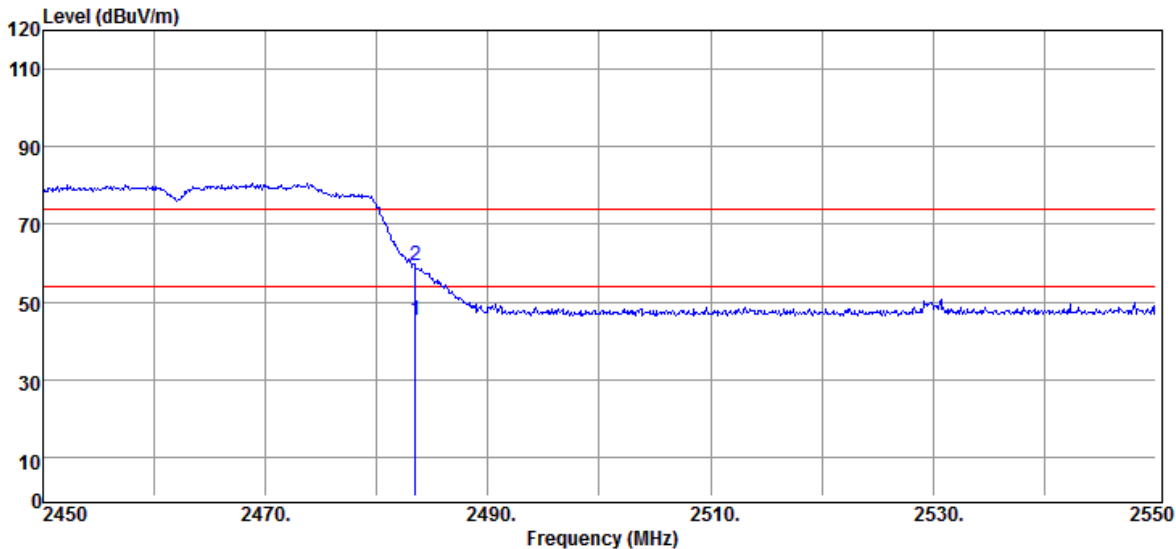
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Operation Mode :802.11n40
Test Mode :BE CH 11
EUT Pol :H Plan
Test Channel :2462 MHz

Test Date :2018-10-17
Temp./Humi. :25/60
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.50	Average	41.26	3.96	45.22	54.00	-8.78
2483.50	Peak	55.26	3.96	59.22	74.00	-14.78

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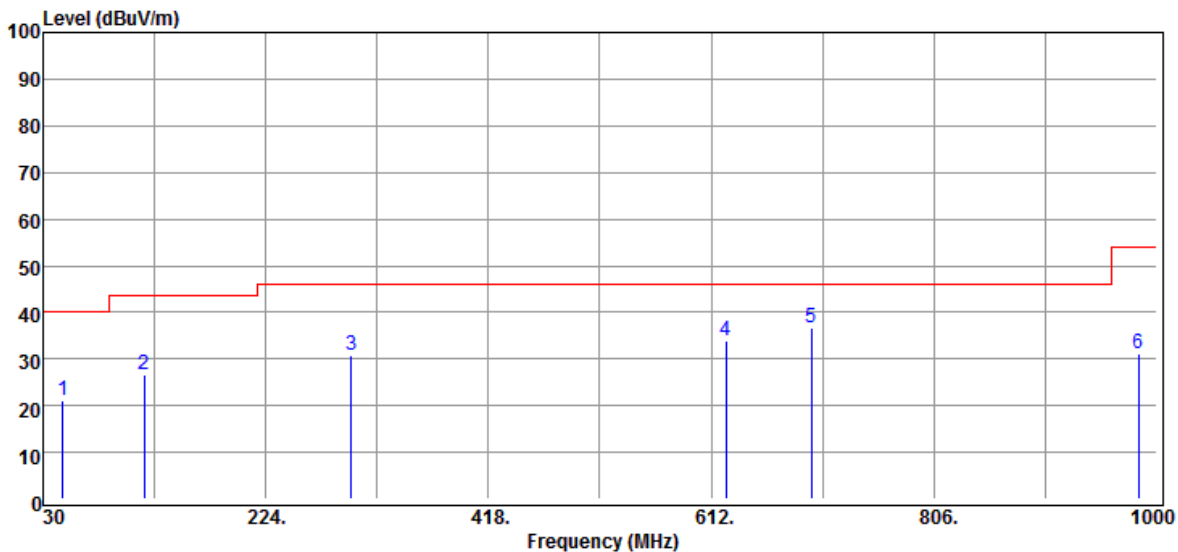
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Below 1GHz Worst-Case Data: Radiated Spurious Emission Measurement Result

Operation Mode	:802.11g	Test Date	:2018-10-24
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2412 MHz	Engineer	:Ashton



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
47.46	Peak	35.43	-14.22	21.21	40.00	-18.79
118.27	Peak	38.78	-12.30	26.48	43.50	-17.02
298.69	Peak	40.62	-9.93	30.69	46.00	-15.31
624.61	Peak	36.75	-2.78	33.97	46.00	-12.03
699.30	Peak	38.31	-1.58	36.73	46.00	-9.27
984.48	Peak	28.29	2.92	31.21	54.00	-22.79

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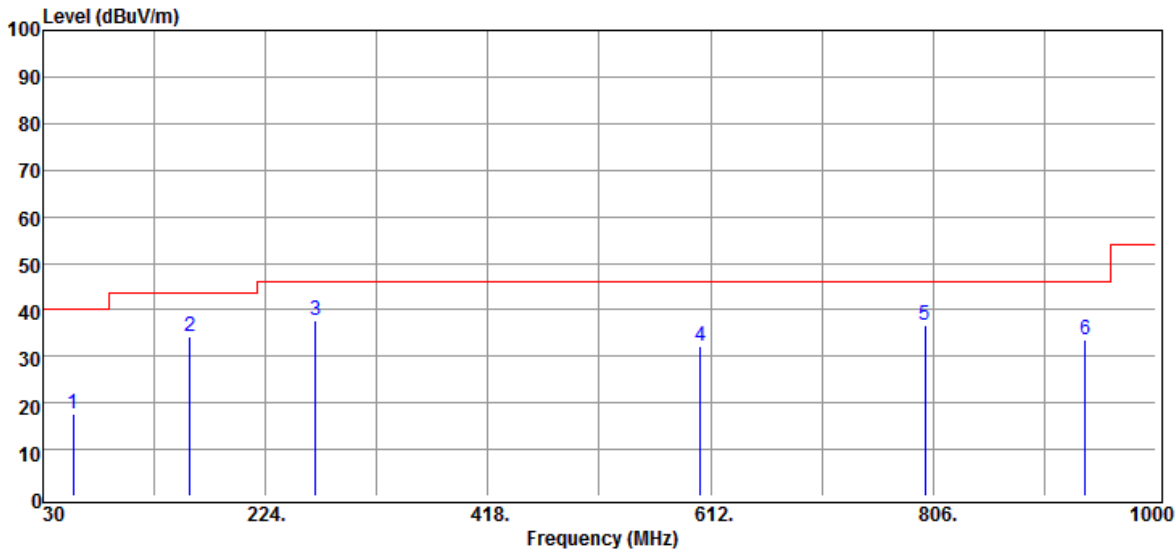
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Operation Mode	:802.11g	Test Date	:2018-10-24
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2412 MHz	Engineer	:Ashton



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
56.19	Peak	36.14	-18.37	17.77	40.00	-22.23
158.04	Peak	47.23	-13.13	34.10	43.50	-9.40
267.65	Peak	48.00	-10.25	37.75	46.00	-8.25
603.27	Peak	35.47	-3.17	32.30	46.00	-13.70
799.21	Peak	36.86	-0.35	36.51	46.00	-9.49
938.89	Peak	31.53	1.86	33.39	46.00	-12.61

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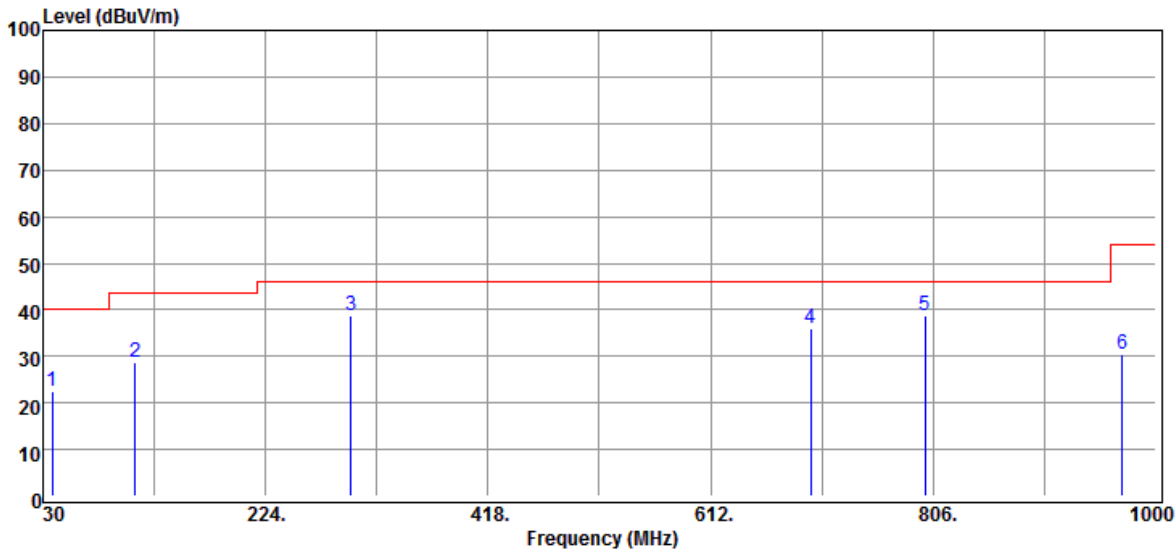
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Operation Mode	:802.11g	Test Date	:2018-10-24
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2442 MHz	Engineer	:Ashton



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
37.76	Peak	30.08	-7.62	22.46	40.00	-17.54
110.51	Peak	41.82	-13.11	28.71	43.50	-14.79
298.69	Peak	48.56	-9.93	38.63	46.00	-7.37
699.30	Peak	37.55	-1.58	35.97	46.00	-10.03
799.21	Peak	39.02	-0.35	38.67	46.00	-7.33
970.90	Peak	27.77	2.57	30.34	54.00	-23.66

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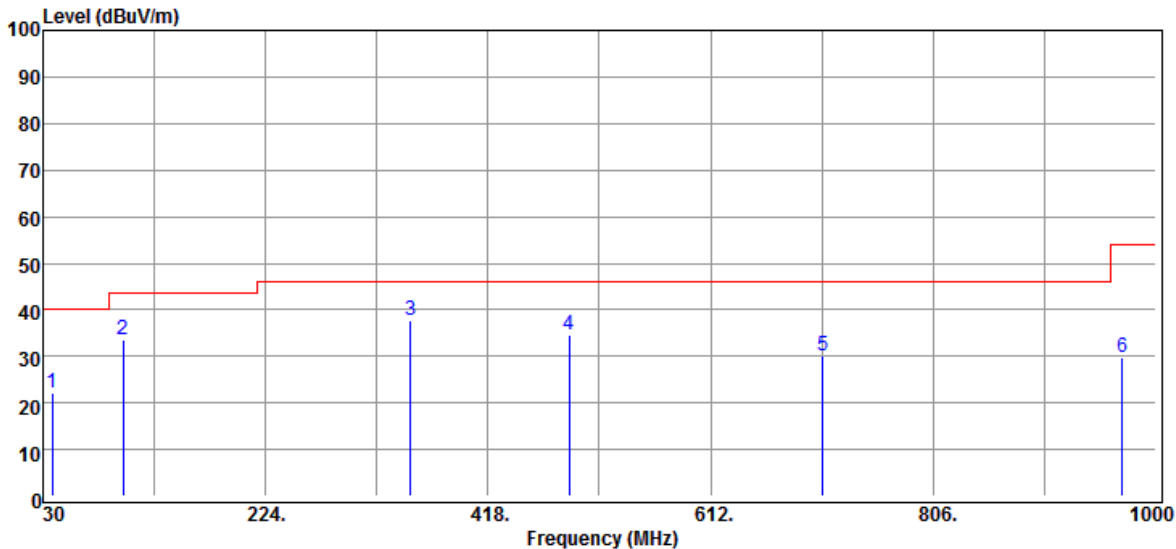
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Operation Mode	:802.11g	Test Date	:2018-10-24
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2442 MHz	Engineer	:Ashton



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
37.76	Peak	29.60	-7.62	21.98	40.00	-18.02
99.84	Peak	48.20	-14.81	33.39	43.50	-10.11
350.10	Peak	45.77	-8.03	37.74	46.00	-8.26
488.81	Peak	39.14	-4.46	34.68	46.00	-11.32
709.97	Peak	31.53	-1.54	29.99	46.00	-16.01
970.90	Peak	27.24	2.57	29.81	54.00	-24.19

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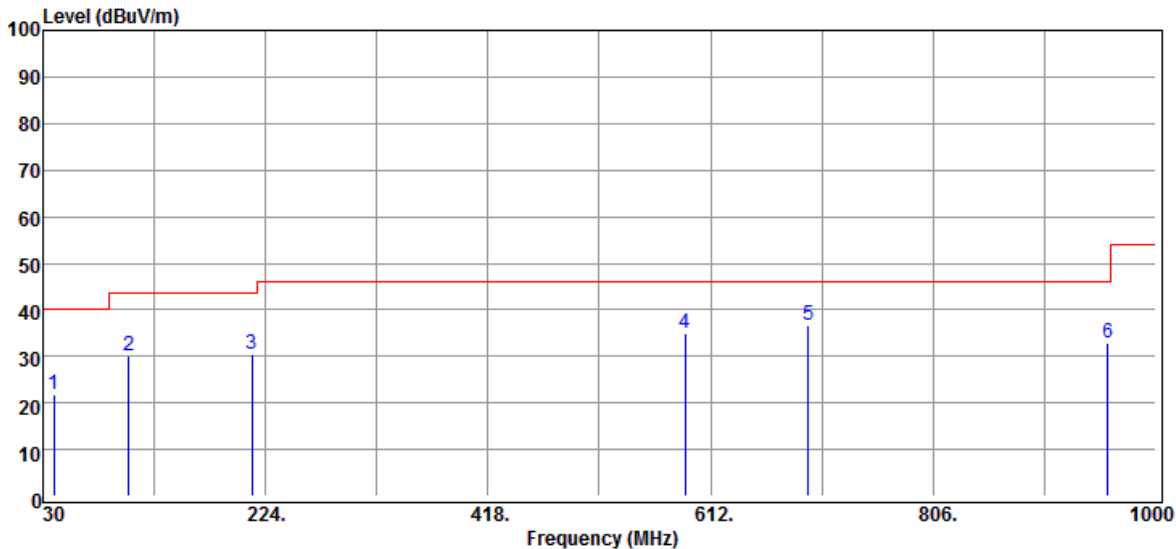
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Operation Mode	:802.11g	Test Date	:2018-10-24
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2462 MHz	Engineer	:Ashton



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
39.70	Peak	30.13	-8.50	21.63	40.00	-18.37
104.69	Peak	44.20	-14.01	30.19	43.50	-13.31
212.36	Peak	43.19	-12.64	30.55	43.50	-12.95
589.69	Peak	37.99	-3.21	34.78	46.00	-11.22
697.36	Peak	38.36	-1.63	36.73	46.00	-9.27
958.29	Peak	30.45	2.26	32.71	46.00	-13.29

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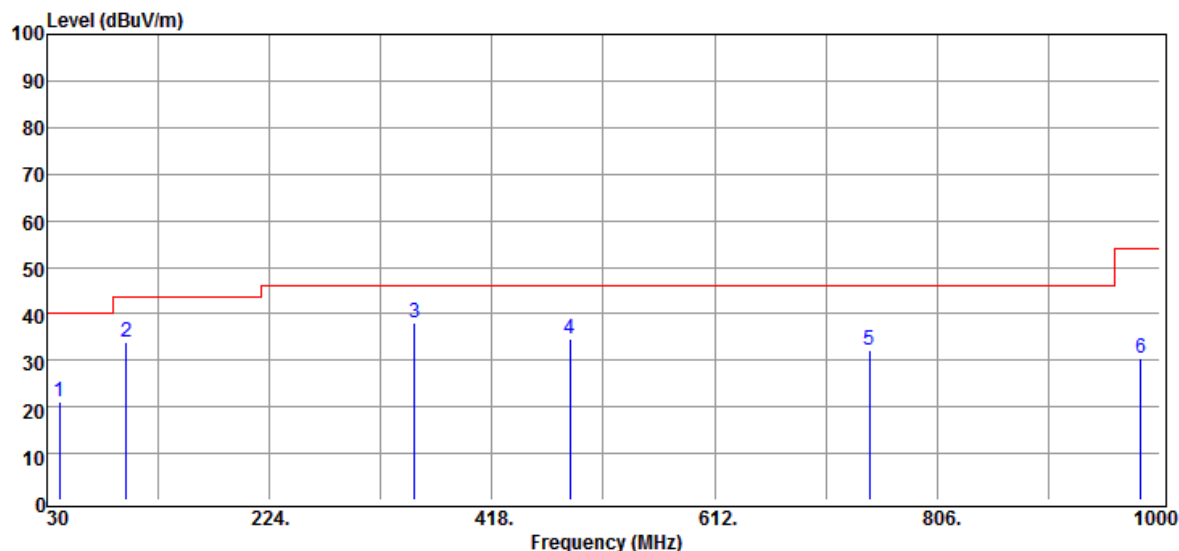
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Operation Mode	:802.11g	Test Date	:2018-10-24
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2462 MHz	Engineer	:Ashton



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
40.67	Peak	30.11	-9.17	20.94	40.00	-19.06
98.87	Peak	48.73	-14.96	33.77	43.50	-9.73
350.10	Peak	46.06	-8.03	38.03	46.00	-7.97
485.90	Peak	39.24	-4.62	34.62	46.00	-11.38
746.83	Peak	33.40	-1.38	32.02	46.00	-13.98
983.51	Peak	27.54	2.89	30.43	54.00	-23.57

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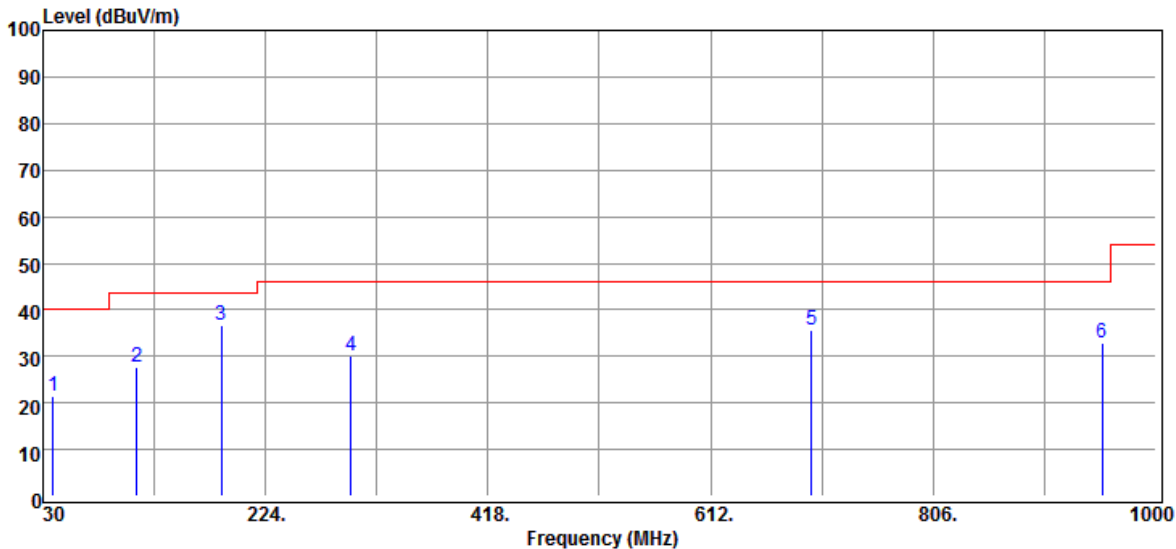
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Operation Mode	:802.11g	Test Date	:2018-10-24
Test Mode	:TX CH 12	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2467 MHz	Engineer	:Ashton



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
38.73	Peak	29.53	-8.07	21.46	40.00	-18.54
111.48	Peak	40.58	-13.01	27.57	43.50	-15.93
185.20	Peak	50.67	-14.04	36.63	43.50	-6.87
298.69	Peak	40.02	-9.93	30.09	46.00	-15.91
700.27	Peak	37.38	-1.58	35.80	46.00	-10.20
953.44	Peak	30.85	2.13	32.98	46.00	-13.02

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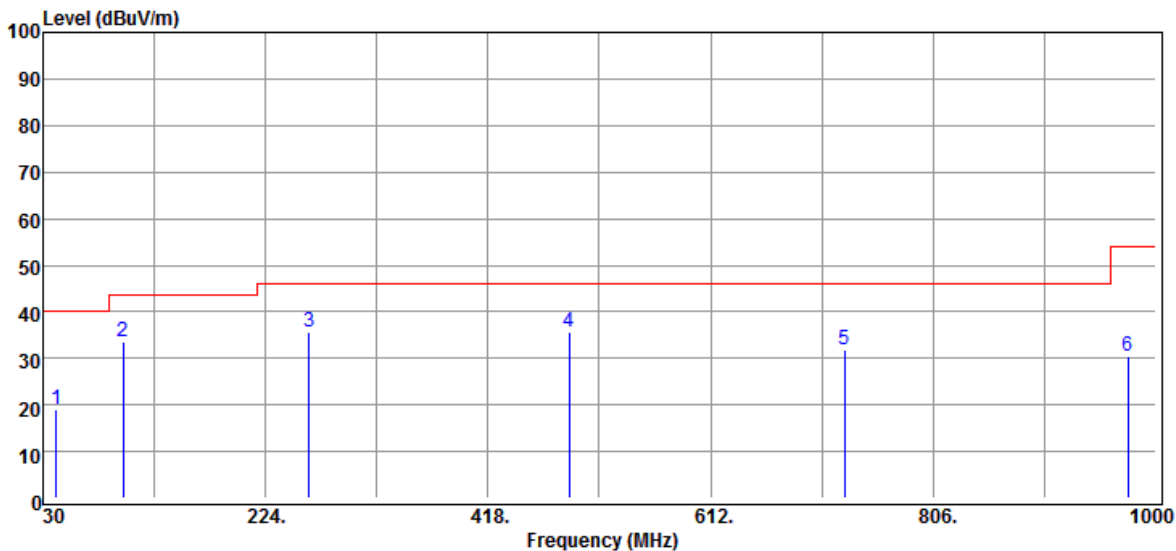
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Operation Mode :802.11g
Test Mode :TX CH 12
EUT Pol :H Plan
Test Channel :2467 MHz

Test Date :2018-10-24
Temp./Humi. :25/60
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
41.64	Peak	29.00	-9.94	19.06	40.00	-20.94
99.84	Peak	48.51	-14.81	33.70	43.50	-9.80
261.83	Peak	45.81	-10.00	35.81	46.00	-10.19
488.81	Peak	40.14	-4.46	35.68	46.00	-10.32
728.40	Peak	33.34	-1.46	31.88	46.00	-14.12
975.75	Peak	27.58	2.70	30.28	54.00	-23.72

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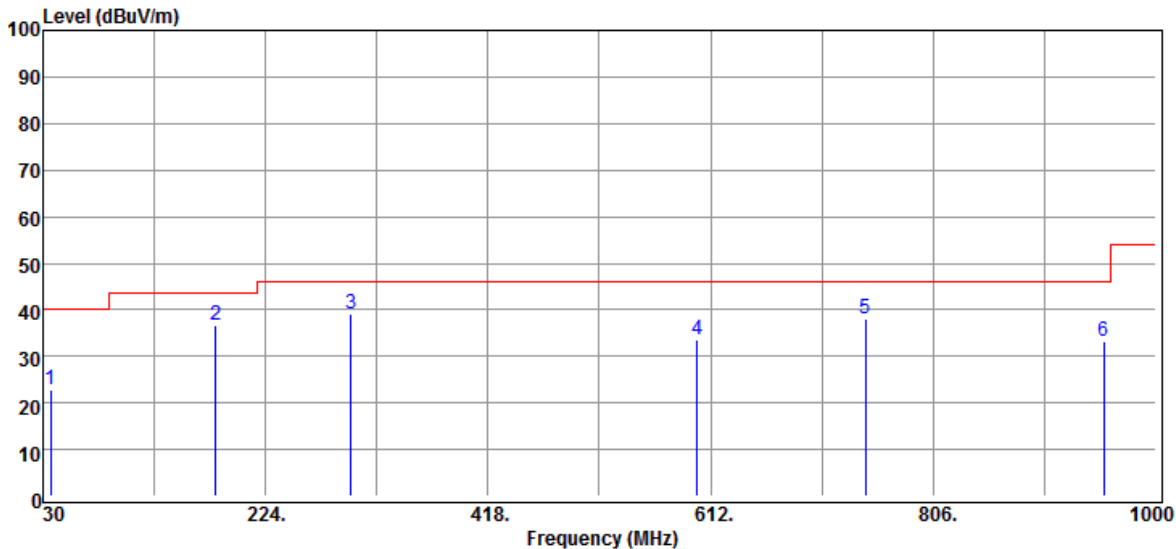
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Operation Mode :802.11g
Test Mode :TX CH 13
EUT Pol :H Plan
Test Channel :2472 MHz

Test Date :2018-10-24
Temp./Humi. :25/60
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
36.79	Peak	30.18	-7.18	23.00	40.00	-17.00
180.35	Peak	51.03	-14.20	36.83	43.50	-6.67
298.69	Peak	48.92	-9.93	38.99	46.00	-7.01
600.36	Peak	36.91	-3.22	33.69	46.00	-12.31
746.83	Peak	39.57	-1.38	38.19	46.00	-7.81
954.41	Peak	31.22	2.16	33.38	46.00	-12.62

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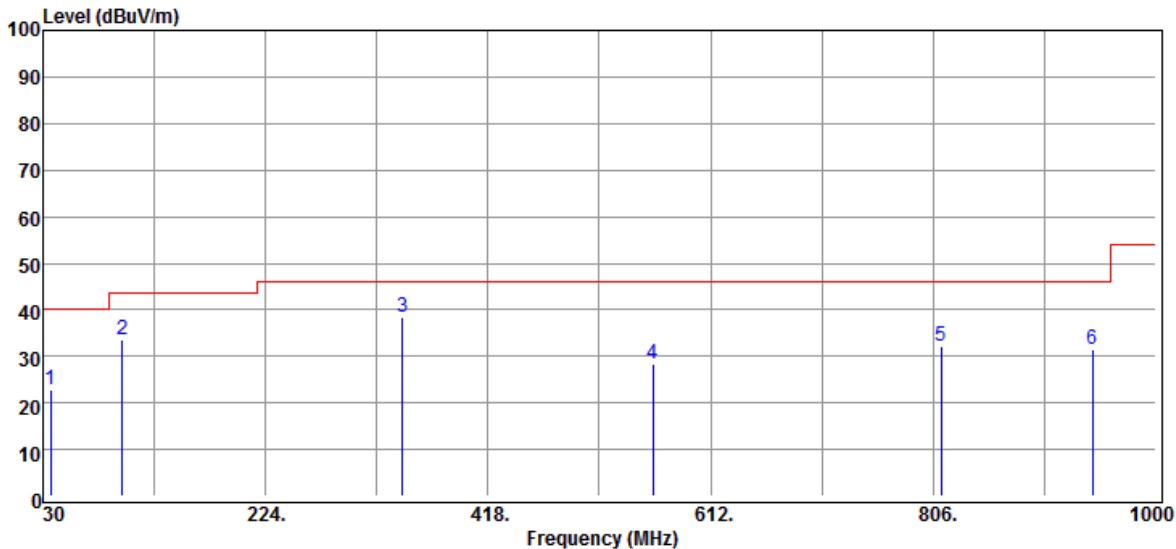
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Operation Mode :802.11g
Test Mode :TX CH 13
EUT Pol :H Plan
Test Channel :2472 MHz

Test Date :2018-10-24
Temp./Humi. :25/60
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
36.79	Peak	30.07	-7.18	22.89	40.00	-17.11
98.87	Peak	48.52	-14.96	33.56	43.50	-9.94
343.31	Peak	46.54	-8.16	38.38	46.00	-7.62
561.56	Peak	31.57	-3.16	28.41	46.00	-17.59
812.79	Peak	32.27	-0.05	32.22	46.00	-13.78
944.71	Peak	29.65	1.96	31.61	46.00	-14.39

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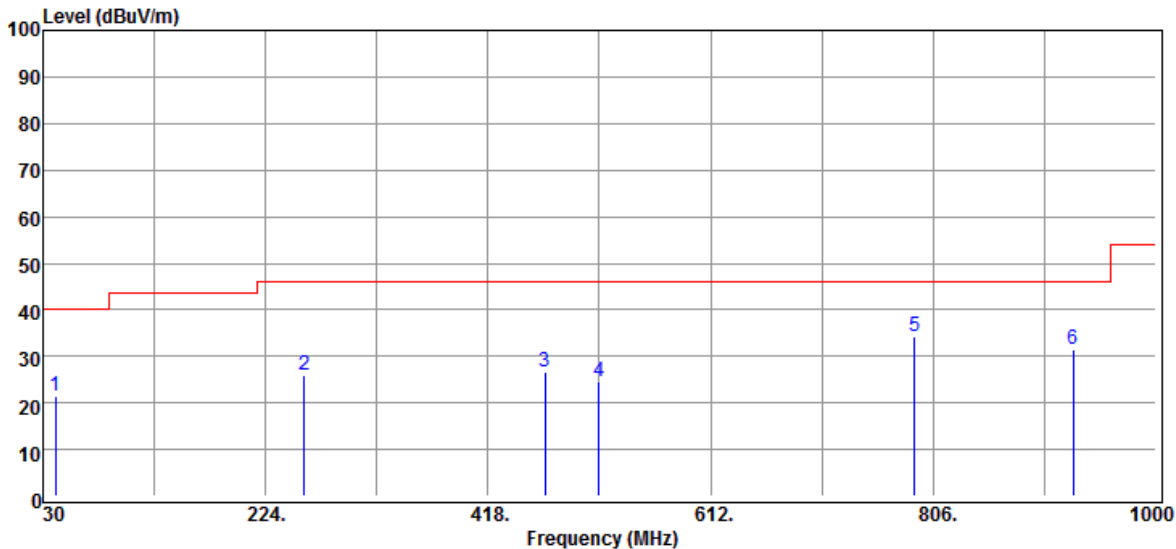
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Operation Mode	:802.11n40	Test Date	:2018-10-24
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2422 MHz	Engineer	:Ashton



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
40.67	Peak	30.53	-9.17	21.36	40.00	-18.64
257.95	Peak	36.13	-10.11	26.02	46.00	-19.98
467.47	Peak	31.43	-4.95	26.48	46.00	-19.52
515.00	Peak	28.60	-3.88	24.72	46.00	-21.28
789.51	Peak	34.95	-0.54	34.41	46.00	-11.59
928.22	Peak	29.94	1.68	31.62	46.00	-14.38

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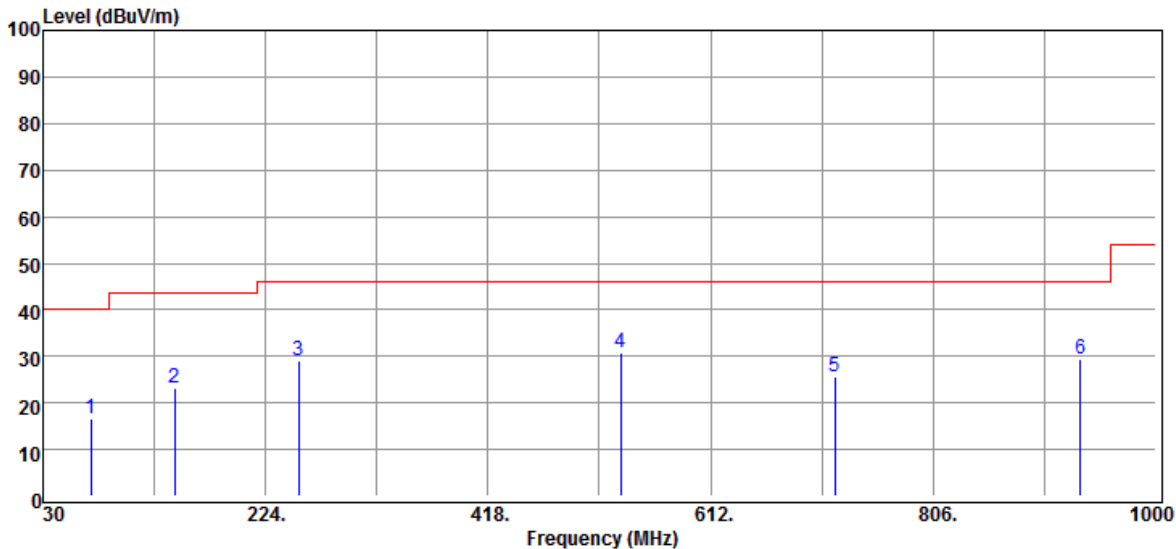
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Operation Mode	:802.11n40	Test Date	:2018-10-24
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2422 MHz	Engineer	:Ashton



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
71.71	Peak	34.33	-17.71	16.62	40.00	-23.38
144.46	Peak	35.43	-12.26	23.17	43.50	-20.33
253.10	Peak	39.45	-10.55	28.90	46.00	-17.10
533.43	Peak	34.15	-3.48	30.67	46.00	-15.33
720.64	Peak	27.27	-1.49	25.78	46.00	-20.22
934.04	Peak	27.53	1.78	29.31	46.00	-16.69

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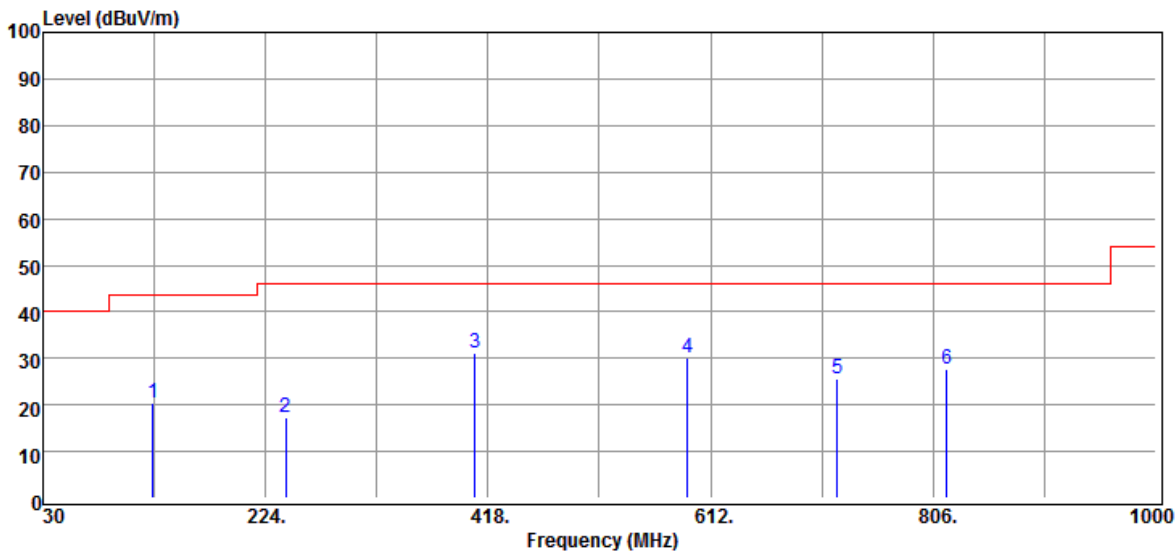
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Operation Mode	:802.11n40	Test Date	:2018-10-24
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2442 MHz	Engineer	:Ashton



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
126.03	Peak	32.24	-11.70	20.54	43.50	-22.96
241.46	Peak	28.76	-11.46	17.30	46.00	-28.70
406.36	Peak	36.93	-5.96	30.97	46.00	-15.03
591.63	Peak	33.35	-3.20	30.15	46.00	-15.85
722.58	Peak	27.11	-1.49	25.62	46.00	-20.38
817.64	Peak	27.76	0.05	27.81	46.00	-18.19

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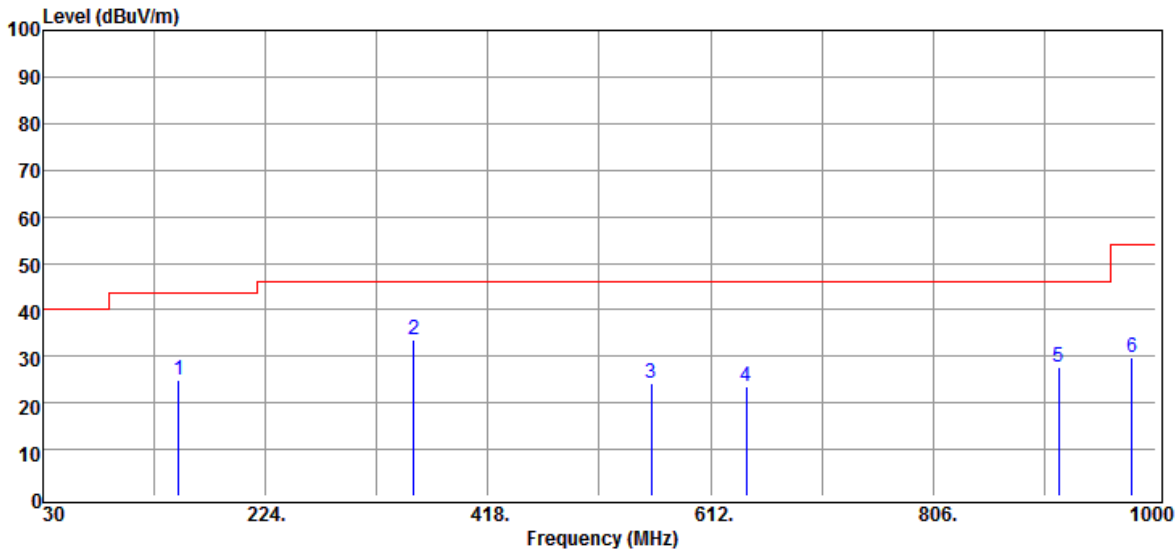
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Operation Mode :802.11n40
Test Mode :TX CH MID
EUT Pol :H Plan
Test Channel :2442 MHz

Test Date :2018-10-24
Temp./Humi. :25/60
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
148.34	Peak	37.39	-12.57	24.82	43.50	-18.68
353.01	Peak	41.42	-7.90	33.52	46.00	-12.48
560.59	Peak	27.41	-3.16	24.25	46.00	-21.75
643.04	Peak	25.97	-2.47	23.50	46.00	-22.50
915.61	Peak	26.19	1.46	27.65	46.00	-18.35
979.63	Peak	26.84	2.80	29.64	54.00	-24.36

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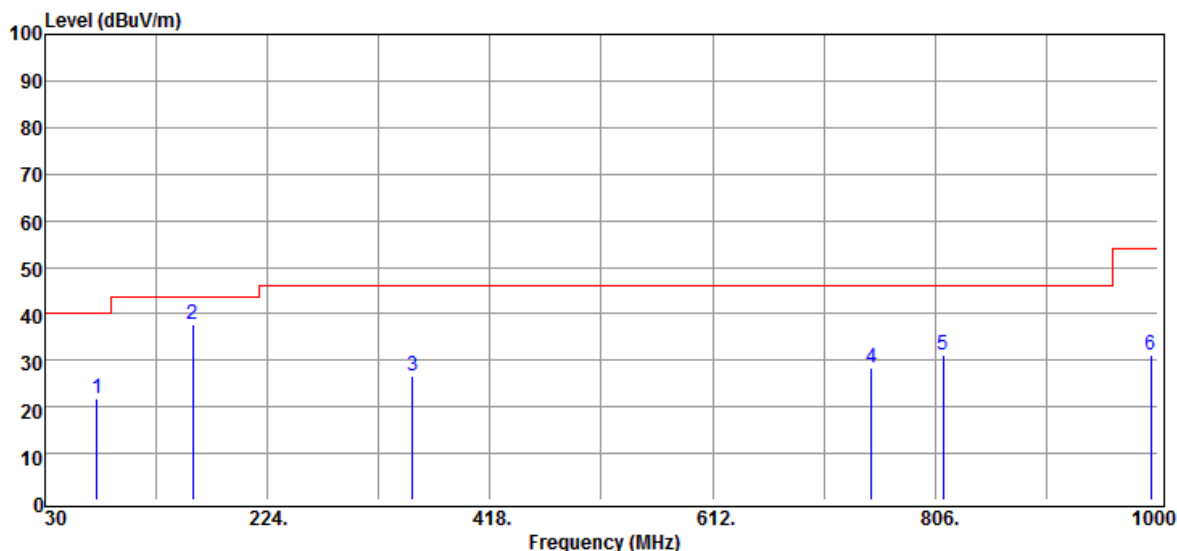
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Operation Mode	:802.11n40	Test Date	:2018-10-24
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2452 MHz	Engineer	:Ashton



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
75.59	Peak	39.14	-17.31	21.83	40.00	-18.17
159.01	Peak	50.80	-13.18	37.62	43.50	-5.88
350.10	Peak	34.72	-8.03	26.69	46.00	-19.31
750.71	Peak	29.56	-1.35	28.21	46.00	-17.79
812.79	Peak	31.08	-0.05	31.03	46.00	-14.97
994.18	Peak	27.91	3.16	31.07	54.00	-22.93

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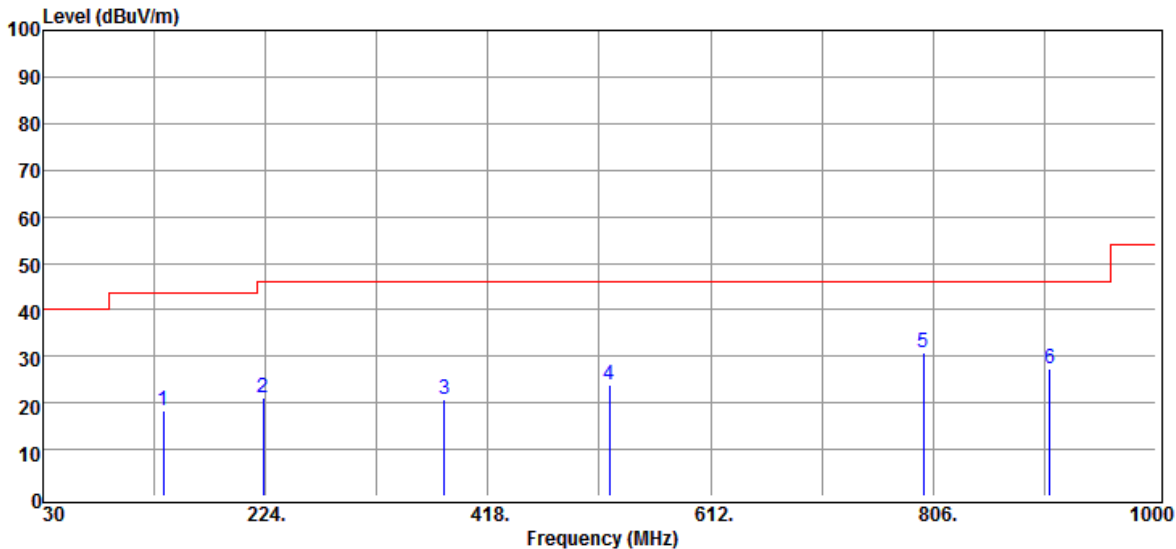
t (886-2) 2299-3279

f (886-2) 2298-0488

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Operation Mode	:802.11n40	Test Date	:2018-10-24
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2452 MHz	Engineer	:Ashton



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
134.76	Peak	30.11	-11.65	18.46	43.50	-25.04
222.06	Peak	33.84	-12.80	21.04	46.00	-24.96
380.17	Peak	27.55	-6.93	20.62	46.00	-25.38
523.73	Peak	27.51	-3.69	23.82	46.00	-22.18
797.27	Peak	31.07	-0.38	30.69	46.00	-15.31
907.85	Peak	26.01	1.32	27.33	46.00	-18.67

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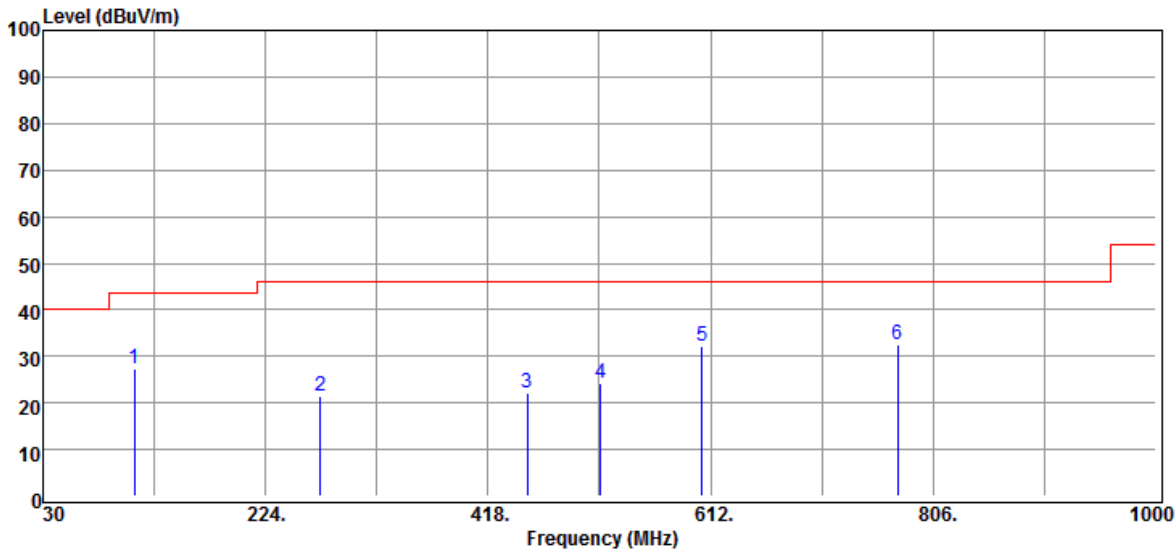
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Operation Mode :802.11n40
Test Mode :TX CH 10
EUT Pol :H Plan
Test Channel :2457 MHz

Test Date :2018-10-24
Temp./Humi. :25/60
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
109.54	Peak	40.51	-13.24	27.27	43.50	-16.23
271.53	Peak	31.88	-10.32	21.56	46.00	-24.44
451.95	Peak	27.48	-5.46	22.02	46.00	-23.98
515.97	Peak	28.22	-3.86	24.36	46.00	-21.64
604.24	Peak	35.19	-3.15	32.04	46.00	-13.96
774.96	Peak	33.50	-0.84	32.66	46.00	-13.34

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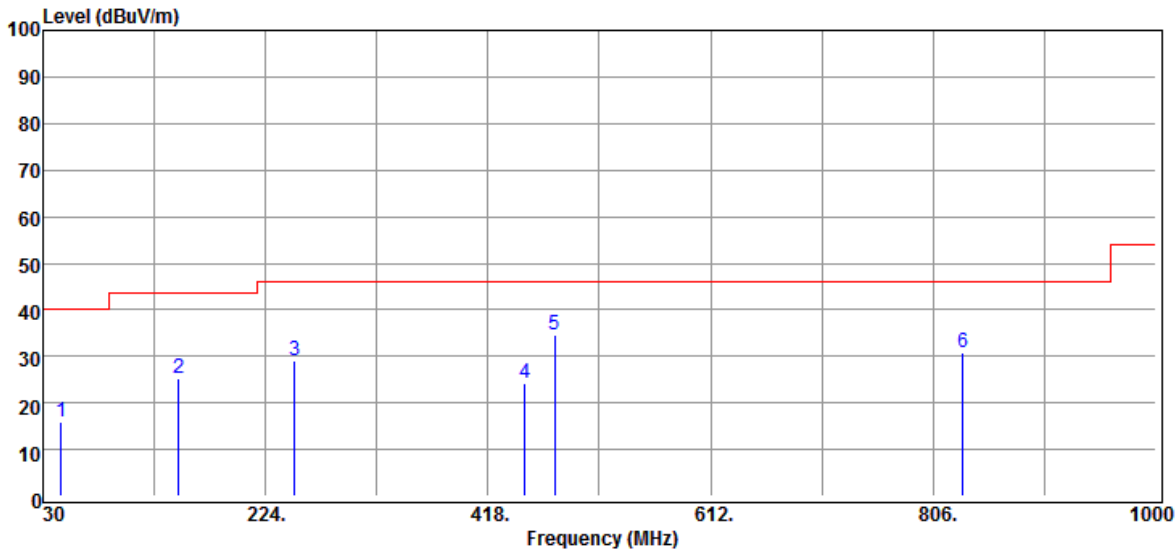
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Operation Mode :802.11n40
Test Mode :TX CH 10
EUT Pol :H Plan
Test Channel :2457 MHz

Test Date :2018-10-24
Temp./Humi. :25/60
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
45.52	Peak	28.78	-12.86	15.92	40.00	-24.08
148.34	Peak	37.96	-12.57	25.39	43.50	-18.11
249.22	Peak	39.86	-10.89	28.97	46.00	-17.03
450.01	Peak	29.83	-5.56	24.27	46.00	-21.73
476.20	Peak	39.64	-4.92	34.72	46.00	-11.28
832.19	Peak	30.61	0.35	30.96	46.00	-15.04

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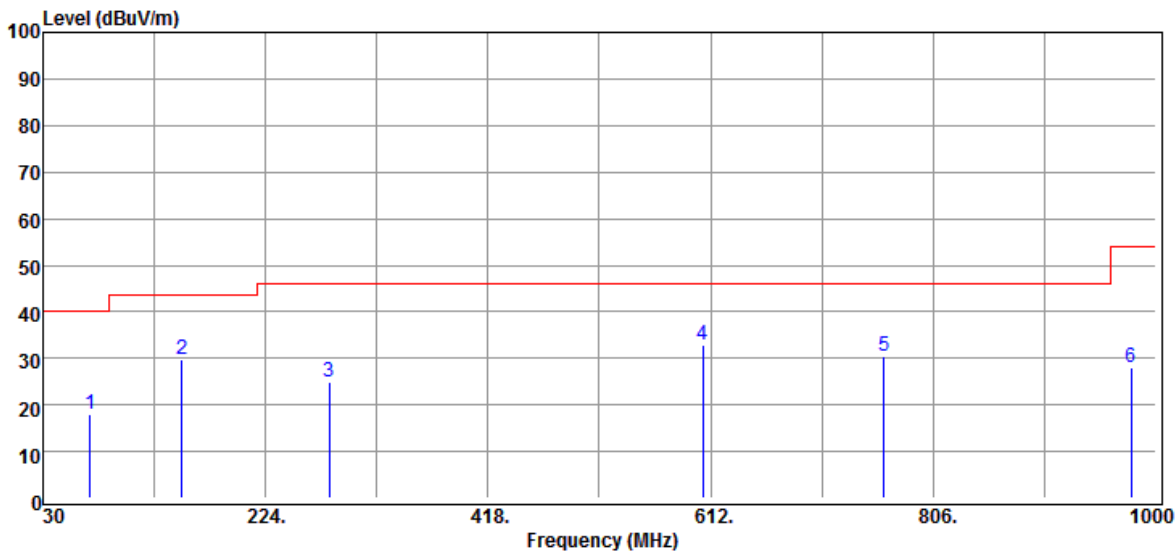
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Operation Mode :802.11n40
Test Mode :TX CH 11
EUT Pol :H Plan
Test Channel :2462 MHz

Test Date :2018-10-24
Temp./Humi. :25/60
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
70.74	Peak	35.66	-17.82	17.84	40.00	-22.16
151.25	Peak	42.55	-12.78	29.77	43.50	-13.73
279.29	Peak	35.27	-10.20	25.07	46.00	-20.93
605.21	Peak	36.17	-3.13	33.04	46.00	-12.96
763.32	Peak	31.65	-1.08	30.57	46.00	-15.43
978.66	Peak	25.25	2.78	28.03	54.00	-25.97

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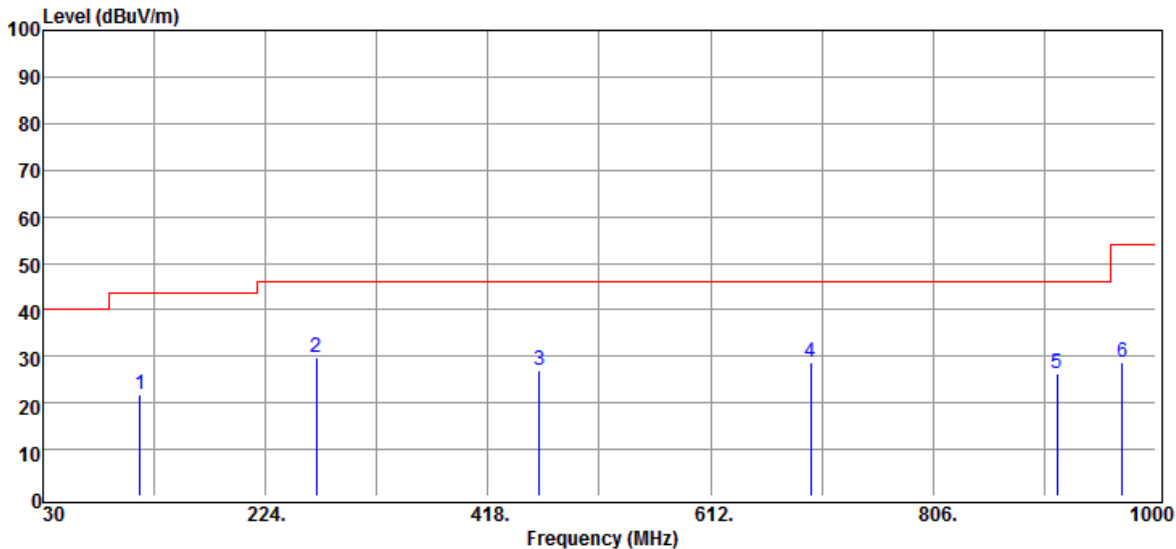
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Operation Mode :802.11n40
Test Mode :TX CH 11
EUT Pol :H Plan
Test Channel :2462 MHz

Test Date :2018-10-24
Temp./Humi. :25/60
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
114.39	Peak	34.65	-12.70	21.95	43.50	-21.55
268.62	Peak	40.13	-10.29	29.84	46.00	-16.16
462.62	Peak	31.94	-5.00	26.94	46.00	-19.06
699.30	Peak	30.18	-1.58	28.60	46.00	-17.40
913.67	Peak	24.89	1.42	26.31	46.00	-19.69
970.90	Peak	26.06	2.57	28.63	54.00	-25.37

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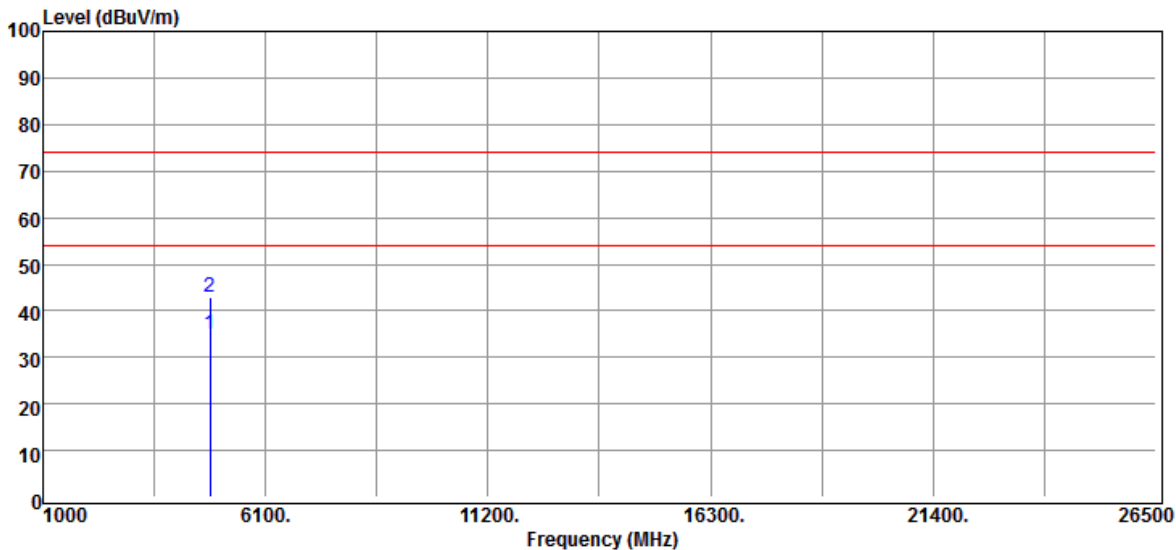
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Above 1GHz Data:

Radiated Spurious Emission Measurement Result

Operation Mode	:802.11b	Test Date	:2018-10-18
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2412 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	22.42	12.38	34.80	54.00	-19.20
4824.00	Peak	30.55	12.38	42.93	74.00	-31.07

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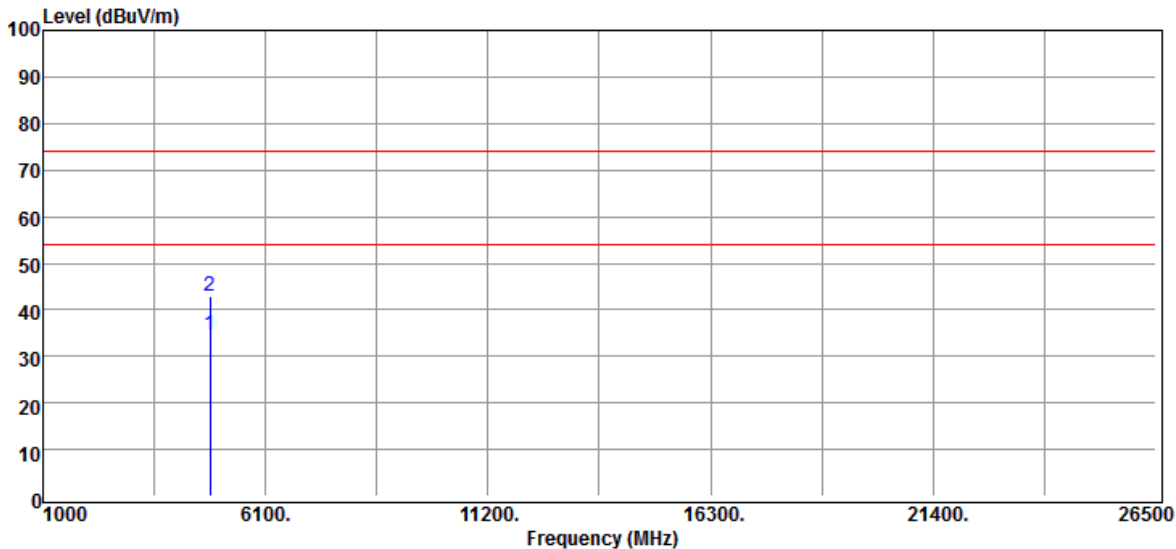
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Operation Mode	:802.11b	Test Date	:2018-10-18
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2412 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	22.21	12.38	34.59	54.00	-19.41
4824.00	Peak	30.44	12.38	42.82	74.00	-31.18

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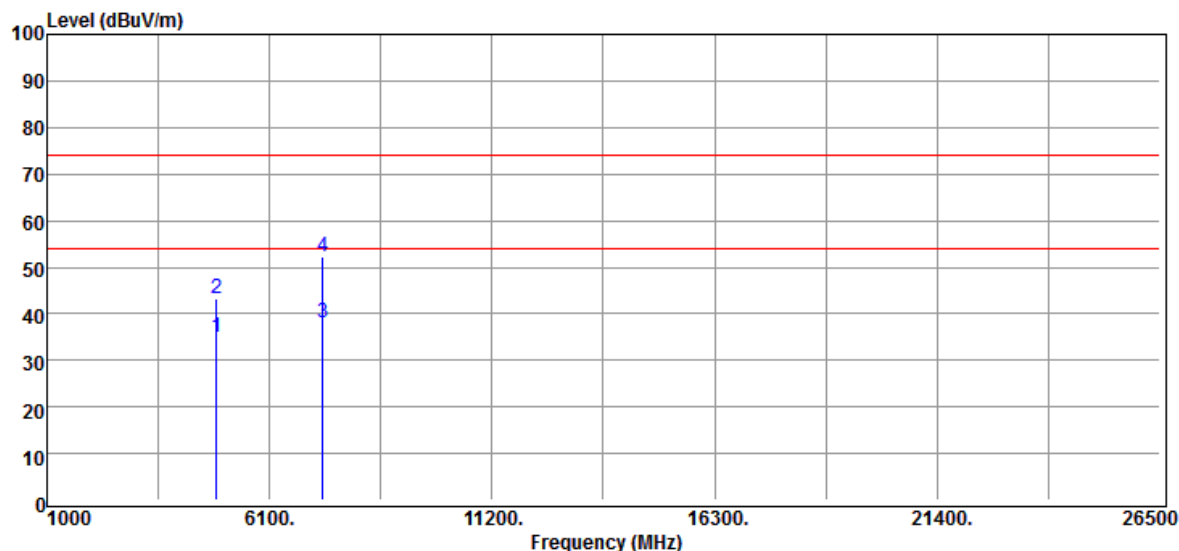
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Operation Mode	:802.11b	Test Date	:2018-10-18
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2442 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4884.00	Average	22.41	12.63	35.04	54.00	-18.96
4884.00	Peak	30.62	12.63	43.25	74.00	-30.75
7326.00	Average	17.82	20.08	37.90	54.00	-16.10
7326.00	Peak	32.03	20.08	52.11	74.00	-21.89

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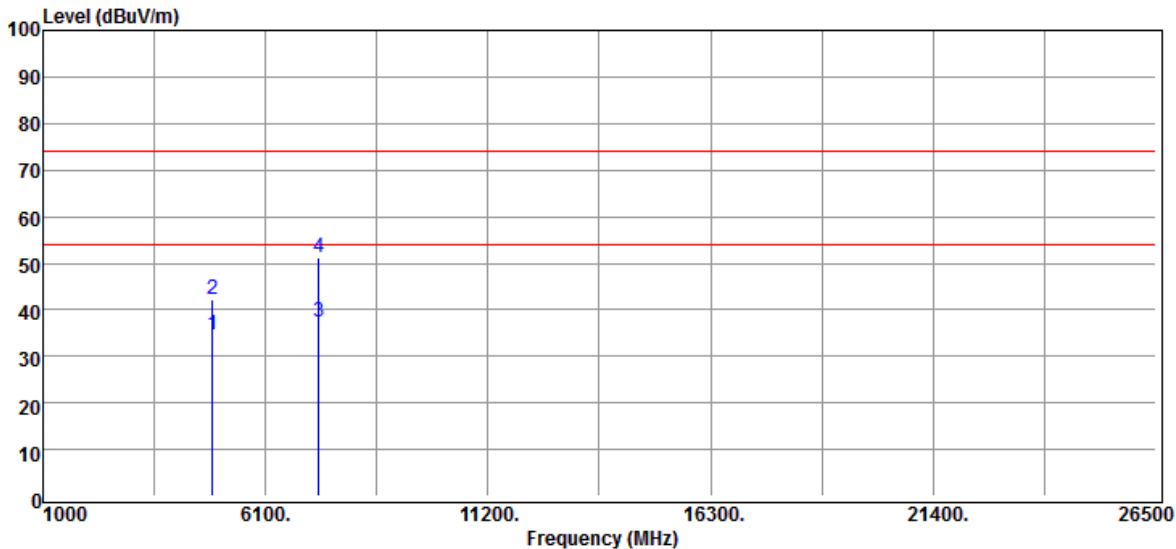
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Operation Mode	:802.11b	Test Date	:2018-10-18
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2442 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4884.00	Average	22.05	12.63	34.68	54.00	-19.32
4884.00	Peak	29.69	12.63	42.32	74.00	-31.68
7326.00	Average	17.23	20.08	37.31	54.00	-16.69
7326.00	Peak	30.99	20.08	51.07	74.00	-22.93

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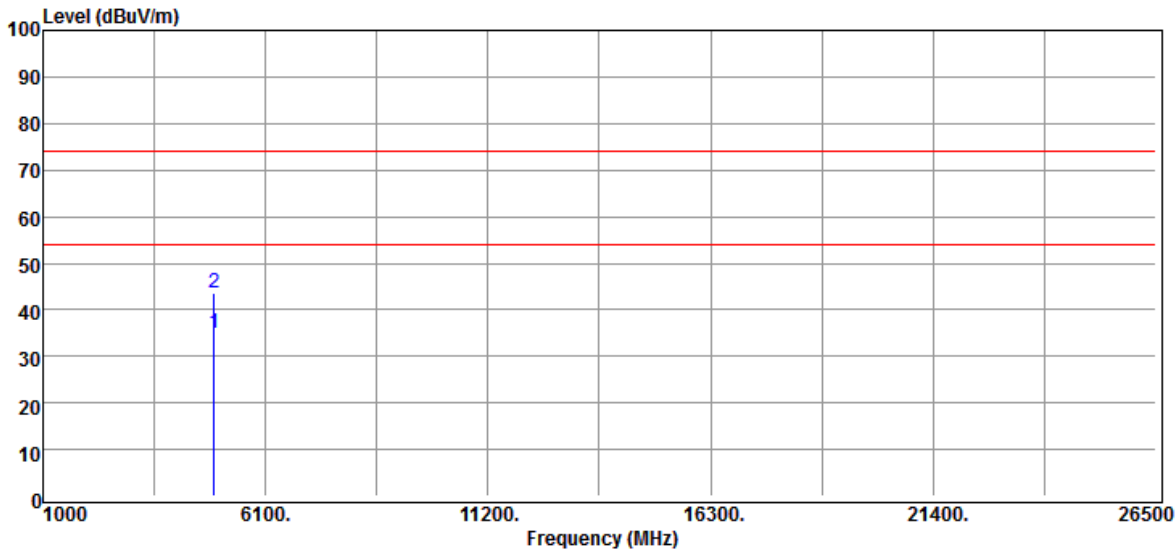
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Operation Mode	:802.11b	Test Date	:2018-10-18
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2462 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	22.25	12.78	35.03	54.00	-18.97
4924.00	Peak	30.66	12.78	43.44	74.00	-30.56

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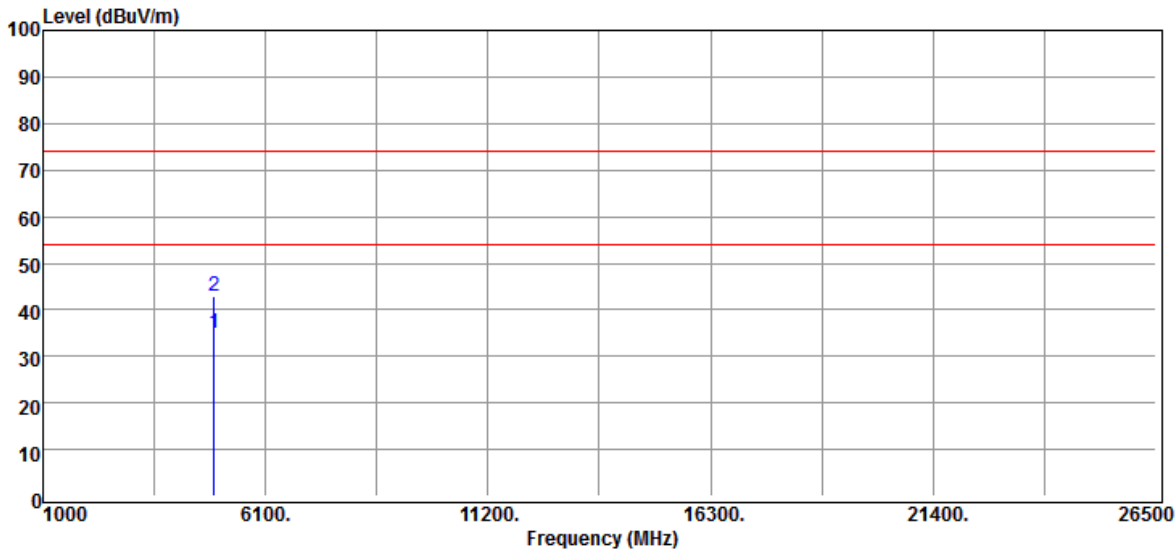
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Operation Mode	:802.11b	Test Date	:2018-10-18
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2462 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	22.09	12.78	34.87	54.00	-19.13
4924.00	Peak	30.11	12.78	42.89	74.00	-31.11

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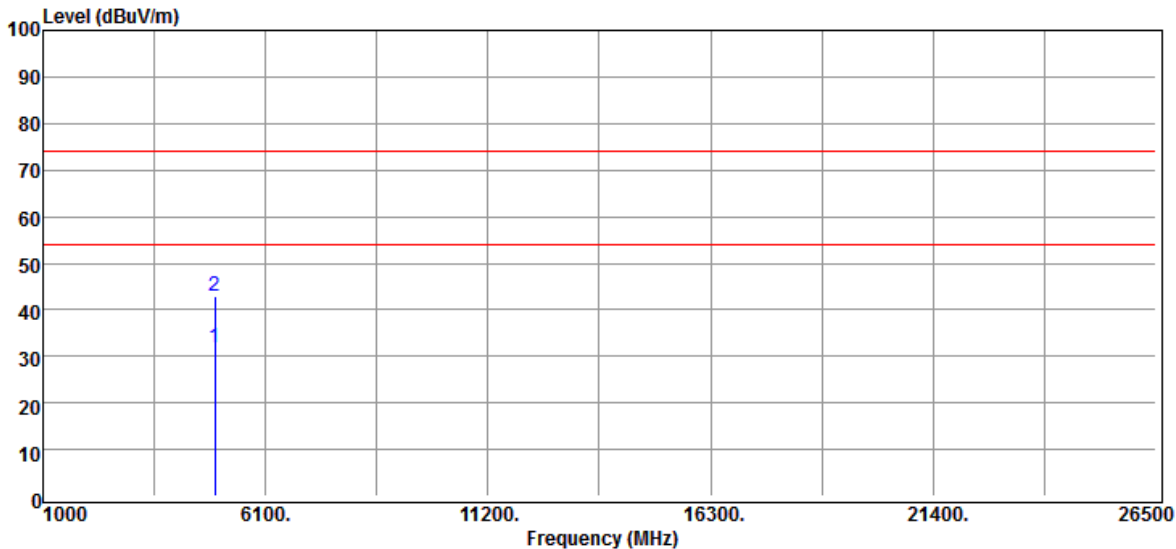
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Operation Mode	:802.11b	Test Date	:2018-10-18
Test Mode	:TX CH 12	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2467 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4934.00	Average	18.87	12.82	31.69	54.00	-22.31
4934.00	Peak	30.13	12.82	42.95	74.00	-31.05

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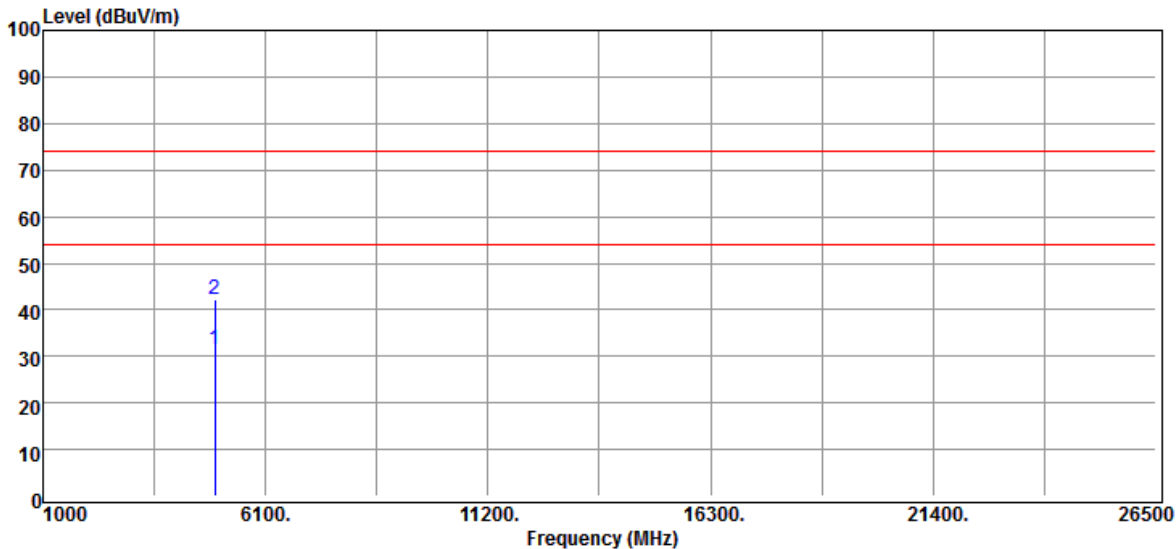
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Operation Mode	:802.11b	Test Date	:2018-10-18
Test Mode	:TX CH 12	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2467 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4934.00	Average	18.56	12.82	31.38	54.00	-22.62
4934.00	Peak	29.52	12.82	42.34	74.00	-31.66

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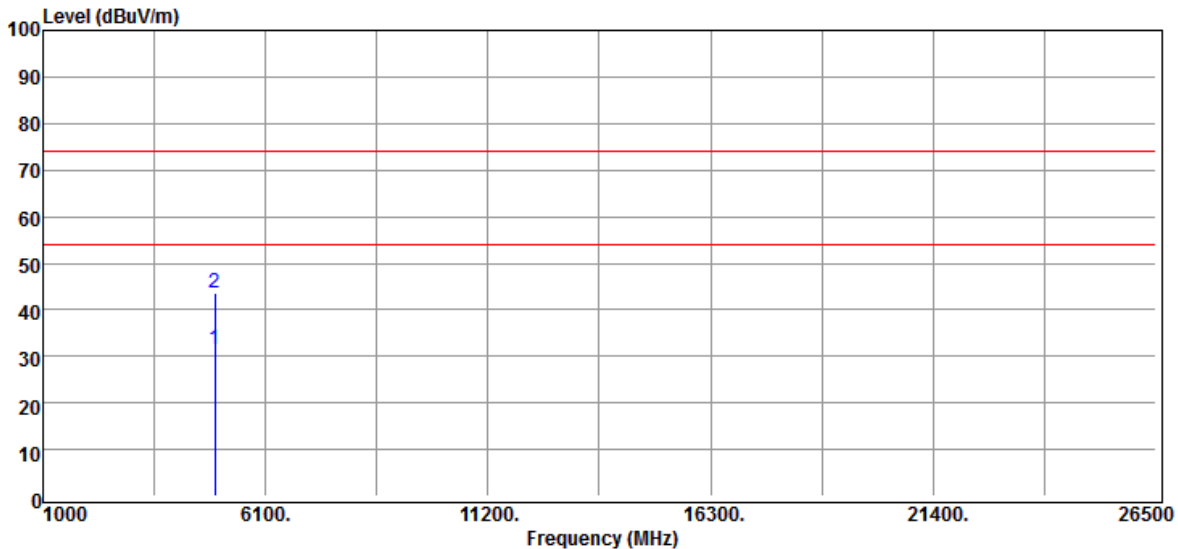
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Operation Mode	:802.11b	Test Date	:2018-10-18
Test Mode	:TX CH 13	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2472 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4944.00	Average	18.52	12.87	31.39	54.00	-22.61
4944.00	Peak	30.63	12.87	43.50	74.00	-30.50

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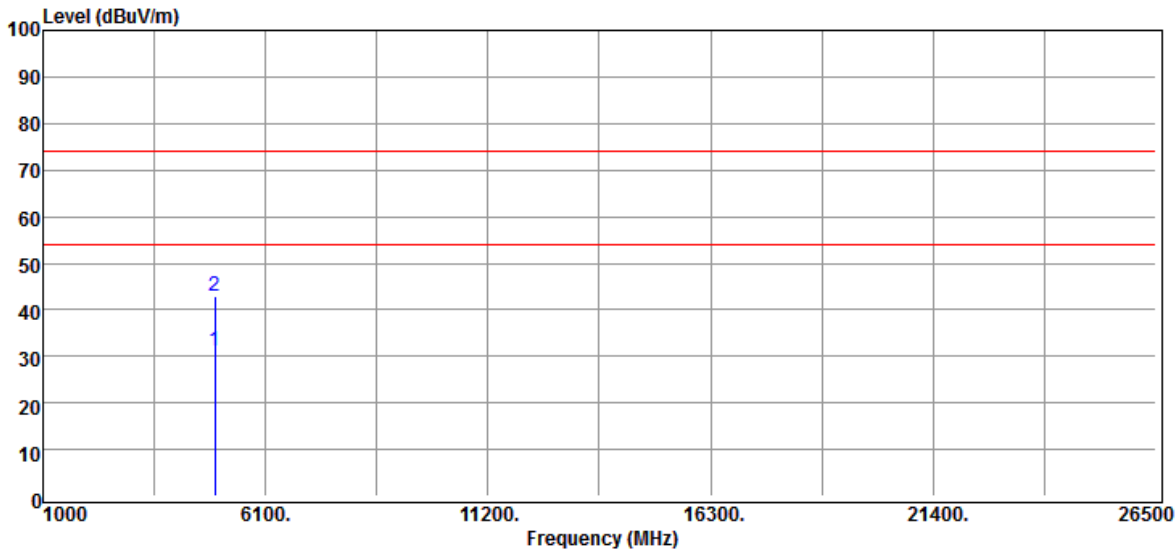
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Operation Mode :802.11b
Test Mode :TX CH 13
EUT Pol :H Plan
Test Channel :2472 MHz

Test Date :2018-10-18
Temp./Humi. :25/60
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4944.00	Average	18.17	12.87	31.04	54.00	-22.96
4944.00	Peak	30.01	12.87	42.88	74.00	-31.12

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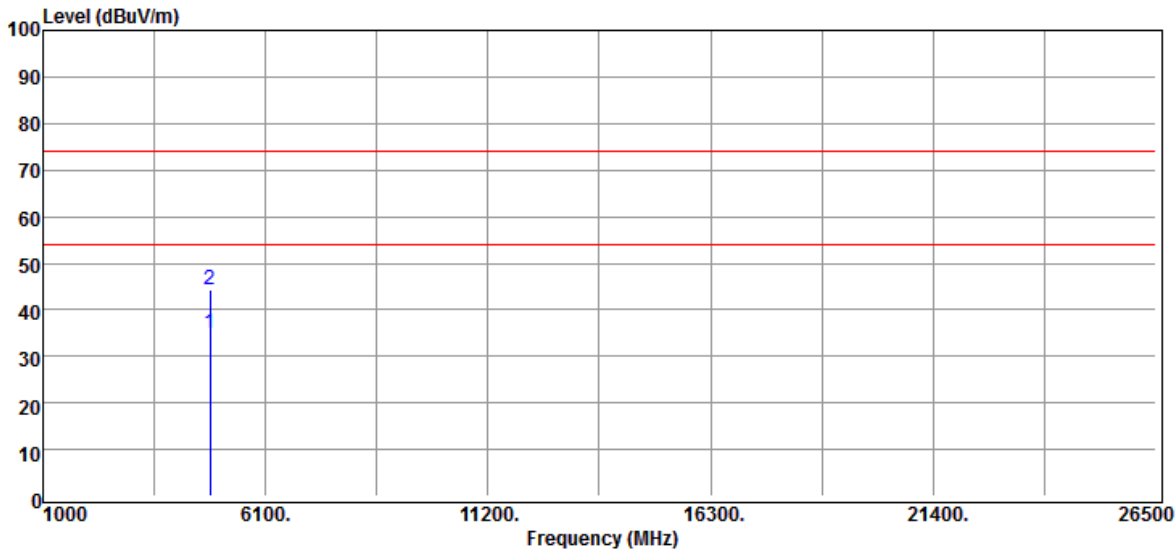
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Operation Mode	:802.11g	Test Date	:2018-10-18
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2412 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	22.67	12.38	35.05	54.00	-18.95
4824.00	Peak	31.91	12.38	44.29	74.00	-29.71

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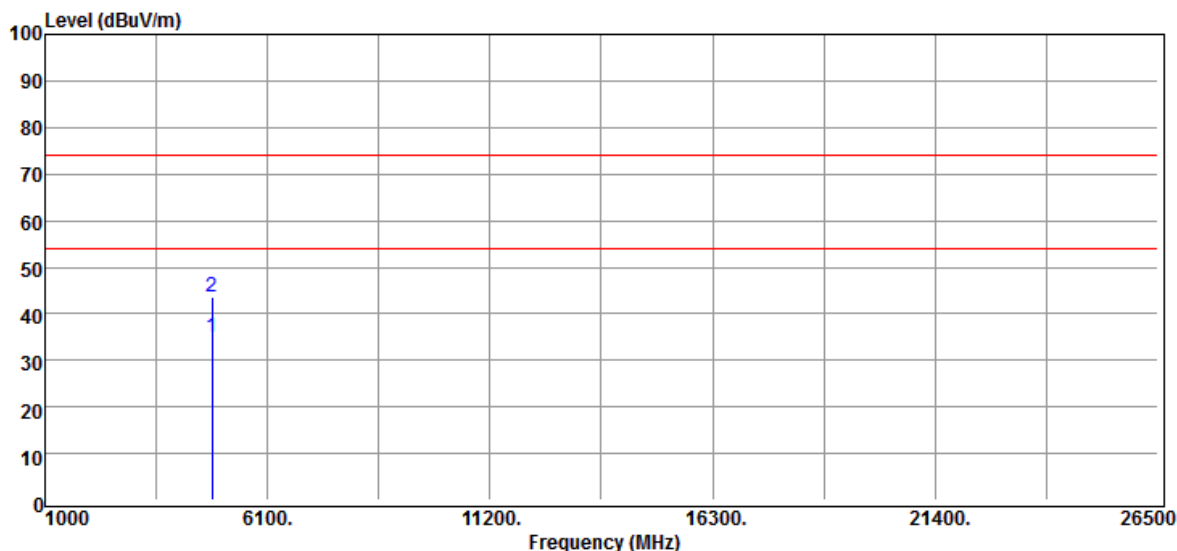
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Operation Mode	:802.11g	Test Date	:2018-10-18
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2412 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	22.64	12.38	35.02	54.00	-18.98
4824.00	Peak	31.27	12.38	43.65	74.00	-30.35

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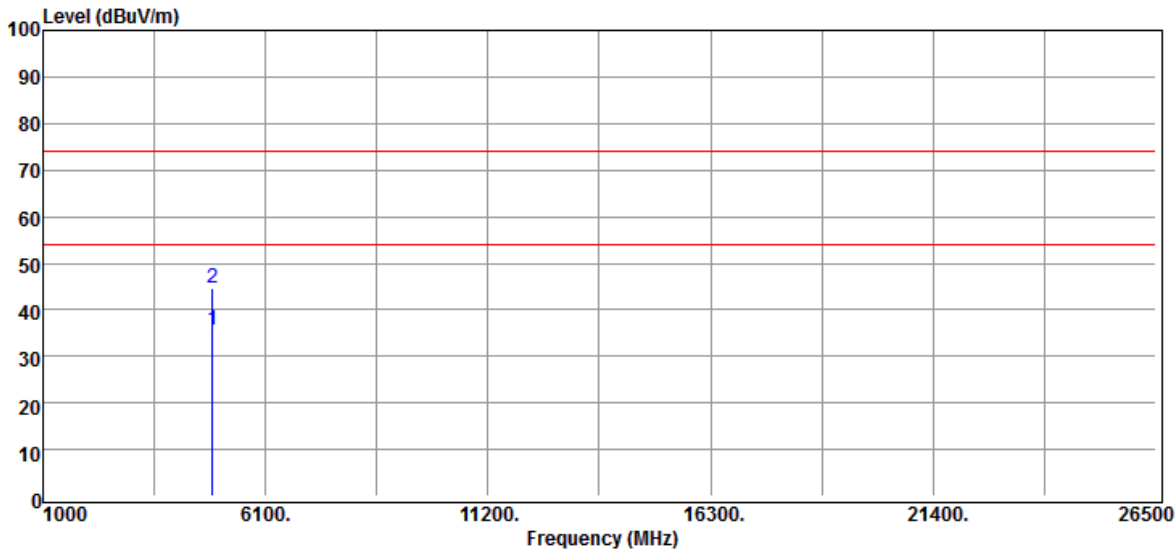
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Operation Mode	:802.11g	Test Date	:2018-10-18
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2442 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4884.00	Average	22.88	12.63	35.51	54.00	-18.49
4884.00	Peak	32.01	12.63	44.64	74.00	-29.36

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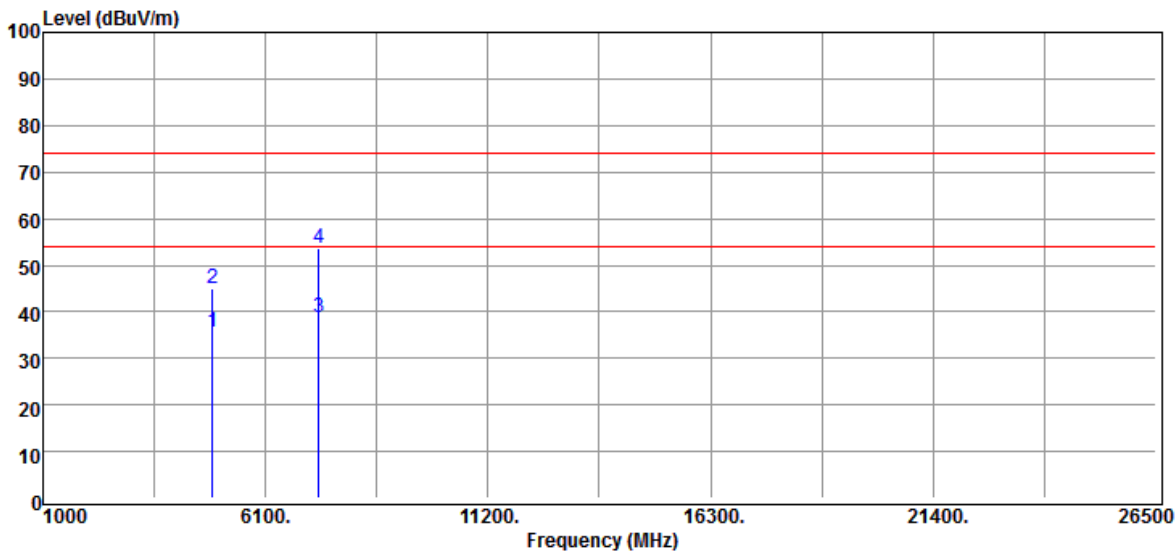
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Operation Mode	:802.11g	Test Date	:2018-10-18
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2442 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4884.00	Average	22.93	12.63	35.56	54.00	-18.44
4884.00	Peak	32.47	12.63	45.10	74.00	-28.90
7326.00	Average	18.66	20.08	38.74	54.00	-15.26
7326.00	Peak	33.67	20.08	53.75	74.00	-20.25

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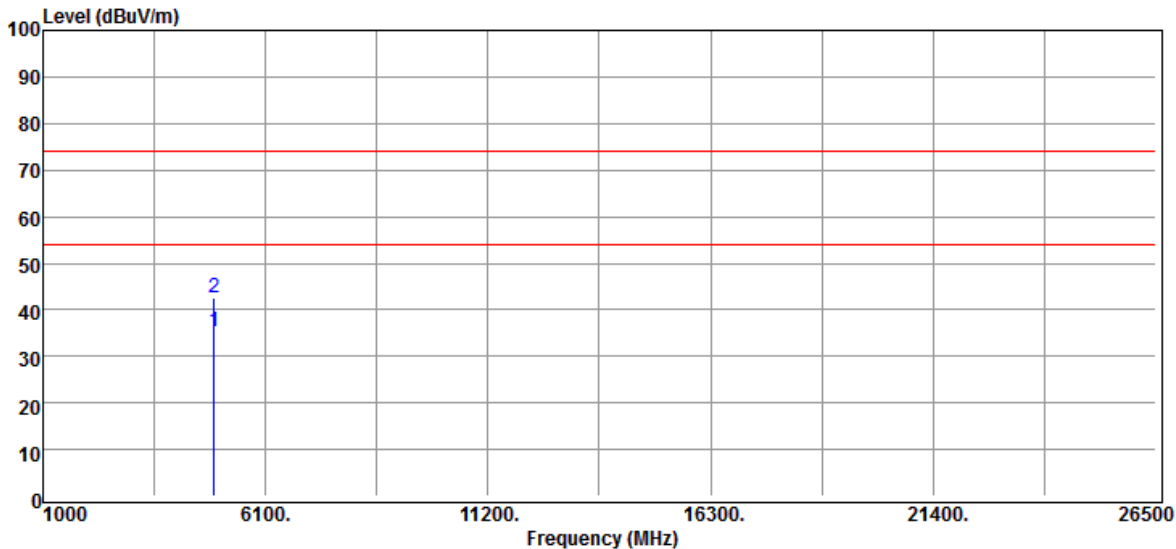
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Operation Mode	:802.11g	Test Date	:2018-10-18
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2462 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4924.00	Average	22.34	12.78	35.12	54.00	-18.88
4924.00	Peak	29.89	12.78	42.67	74.00	-31.33

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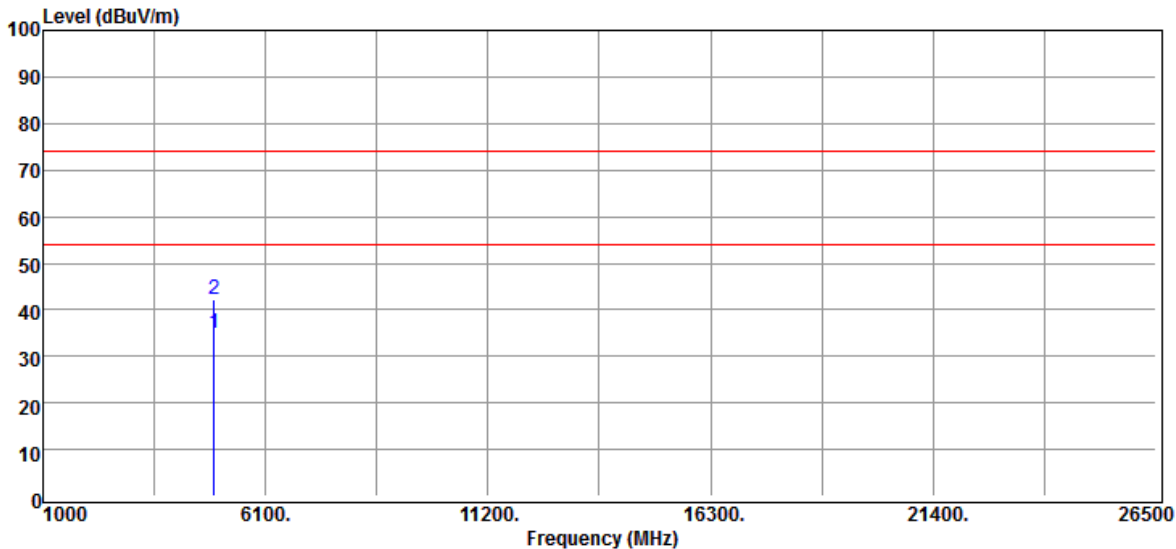
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Operation Mode	:802.11g	Test Date	:2018-10-18
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2462 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	22.19	12.78	34.97	54.00	-19.03
4924.00	Peak	29.53	12.78	42.31	74.00	-31.69

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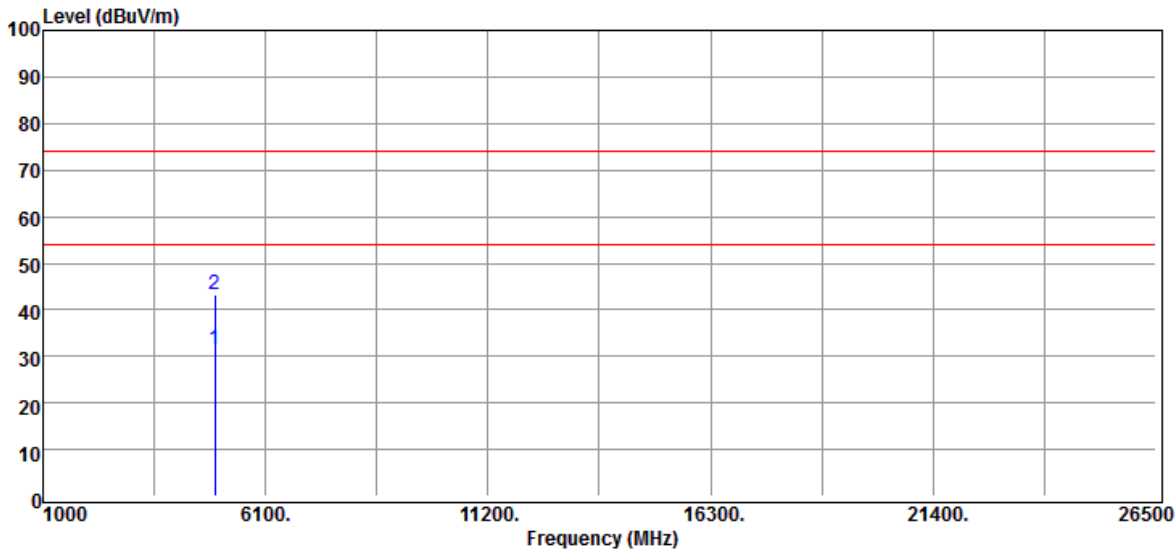
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Operation Mode	:802.11g	Test Date	:2018-10-18
Test Mode	:TX CH 12	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2467 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4934.00	Average	18.68	12.82	31.50	54.00	-22.50
4934.00	Peak	30.33	12.82	43.15	74.00	-30.85

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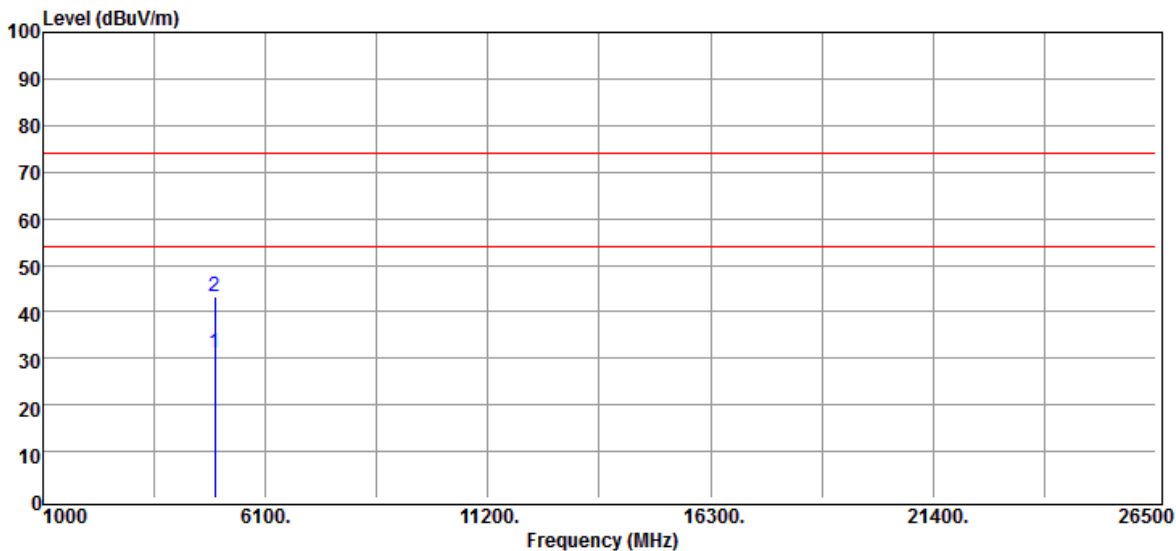
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Operation Mode	:802.11g	Test Date	:2018-10-18
Test Mode	:TX CH 12	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2467 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4934.00	Average	18.44	12.82	31.26	54.00	-22.74
4934.00	Peak	30.53	12.82	43.35	74.00	-30.65

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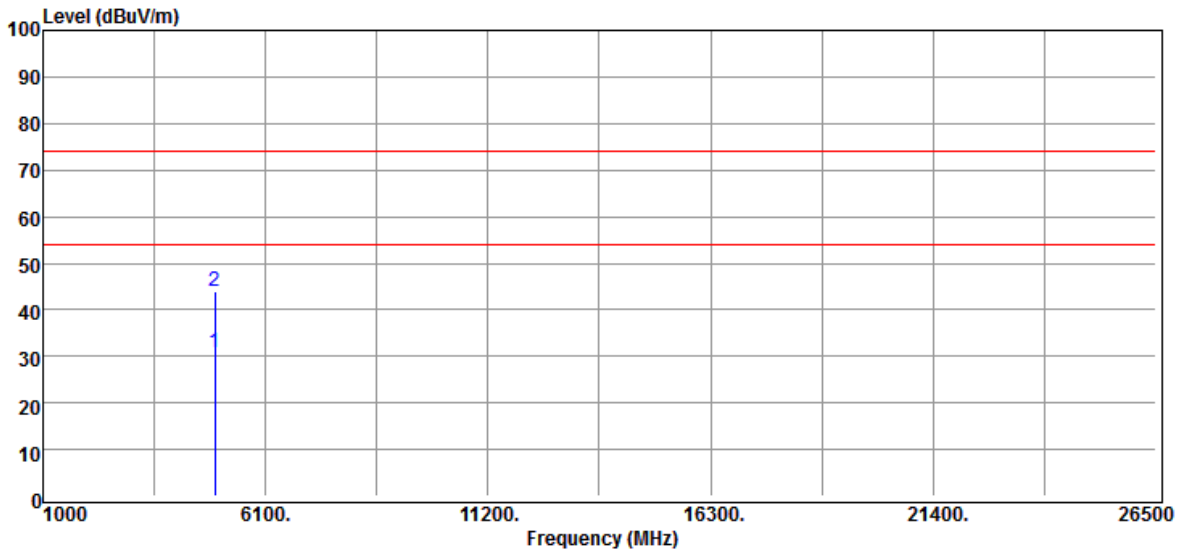
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Operation Mode	:802.11g	Test Date	:2018-10-18
Test Mode	:TX CH 13	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2472 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4944.00	Average	18.05	12.87	30.92	54.00	-23.08
4944.00	Peak	31.03	12.87	43.90	74.00	-30.10

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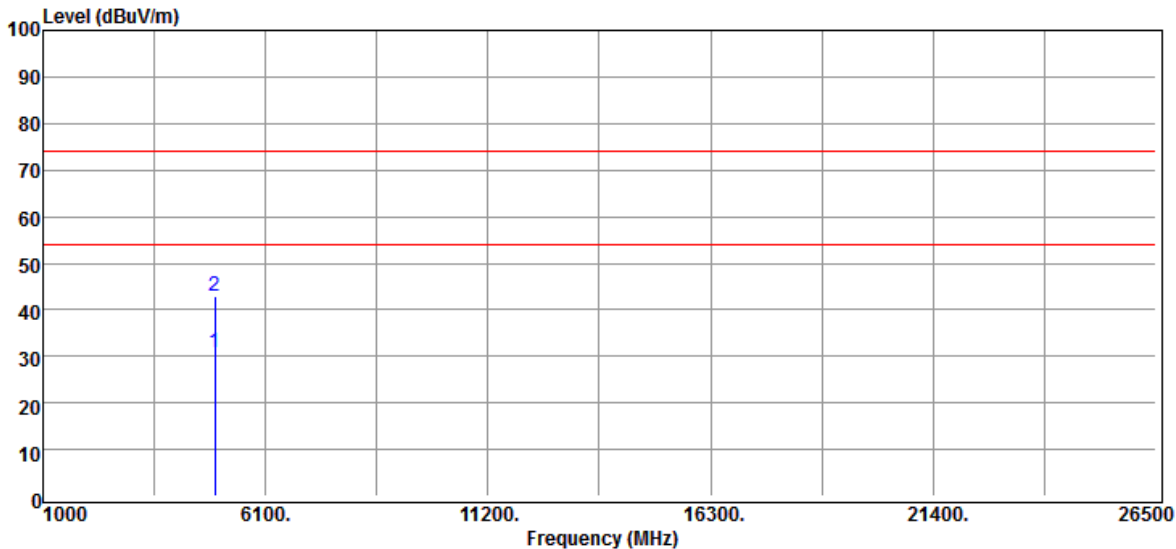
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Operation Mode :802.11g
Test Mode :TX CH 13
EUT Pol :H Plan
Test Channel :2472 MHz

Test Date :2018-10-18
Temp./Humi. :25/60
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4944.00	Average	18.02	12.87	30.89	54.00	-23.11
4944.00	Peak	29.95	12.87	42.82	74.00	-31.18

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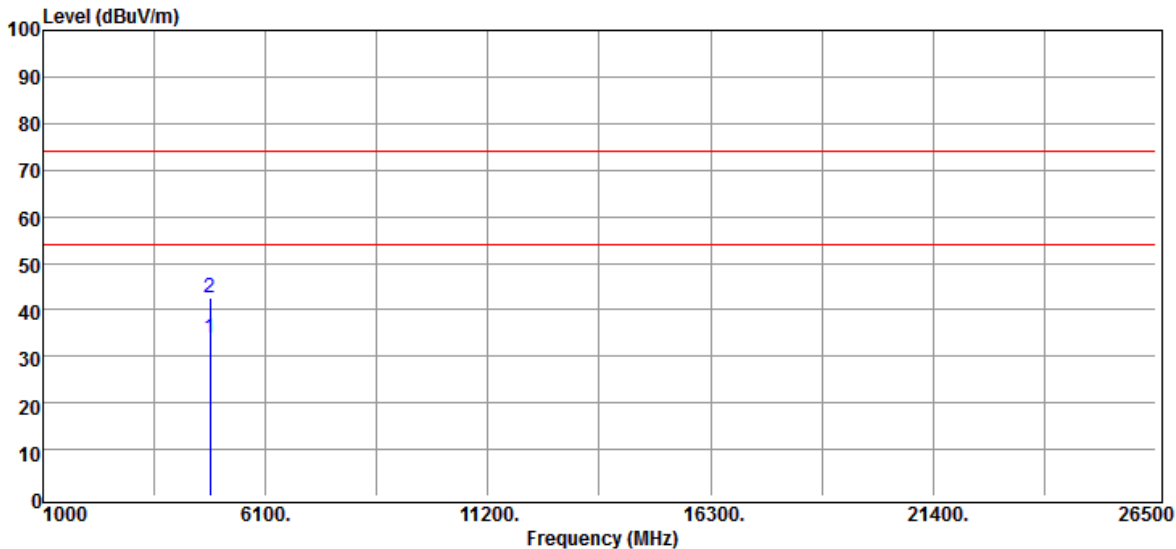
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Operation Mode	:802.11n20	Test Date	:2018-10-18
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2412 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	21.65	12.38	34.03	54.00	-19.97
4824.00	Peak	30.20	12.38	42.58	74.00	-31.42

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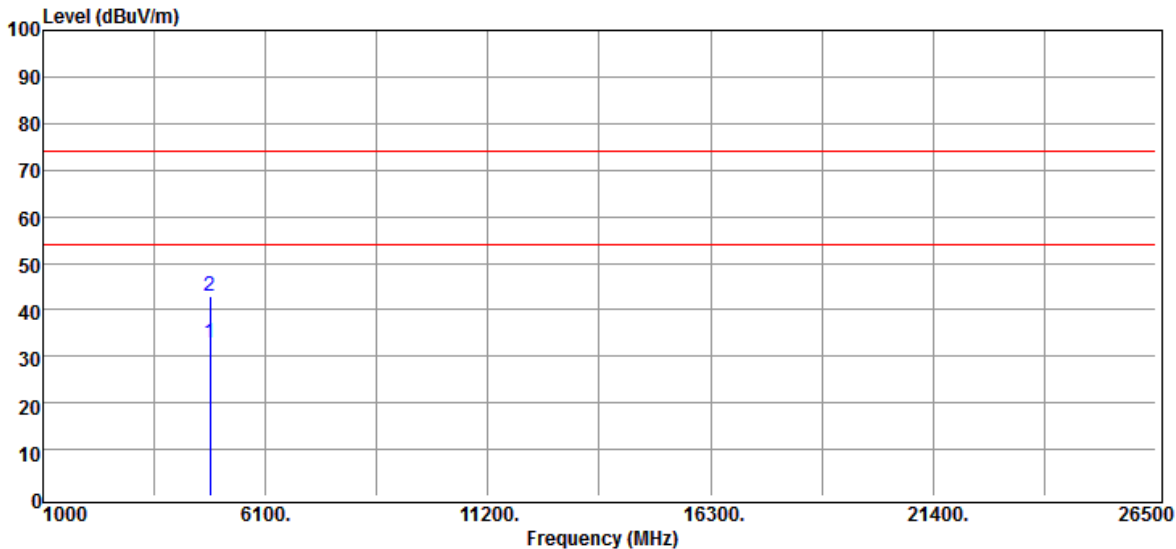
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Operation Mode	:802.11n20	Test Date	:2018-10-18
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2412 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	20.45	12.38	32.83	54.00	-21.17
4824.00	Peak	30.52	12.38	42.90	74.00	-31.10

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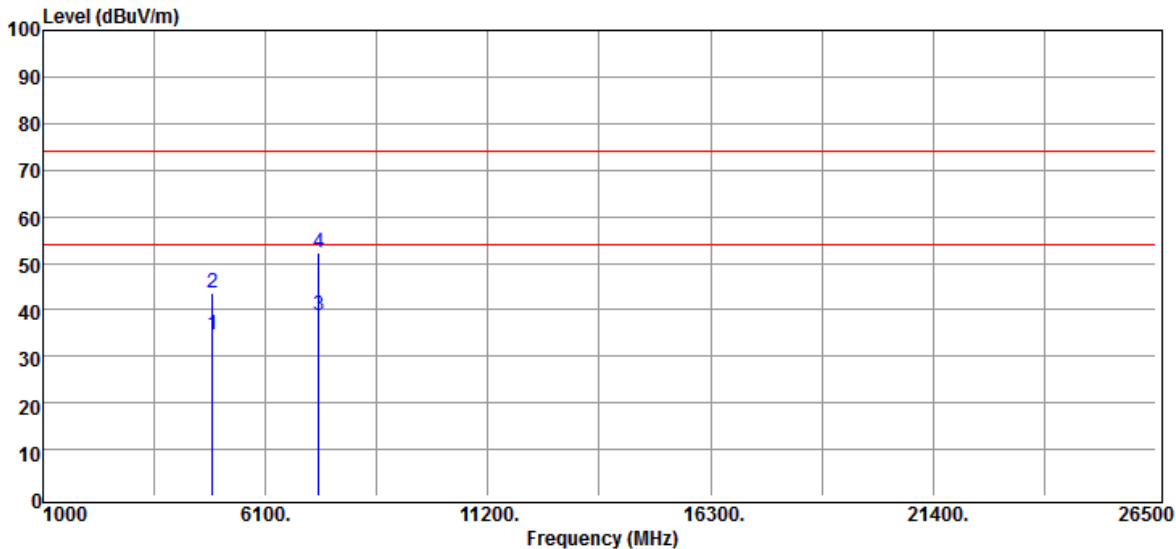
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Operation Mode	:802.11n20	Test Date	:2018-10-18
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2442 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4884.00	Average	22.08	12.63	34.71	54.00	-19.29
4884.00	Peak	30.85	12.63	43.48	74.00	-30.52
7326.00	Average	18.68	20.08	38.76	54.00	-15.24
7326.00	Peak	32.14	20.08	52.22	74.00	-21.78

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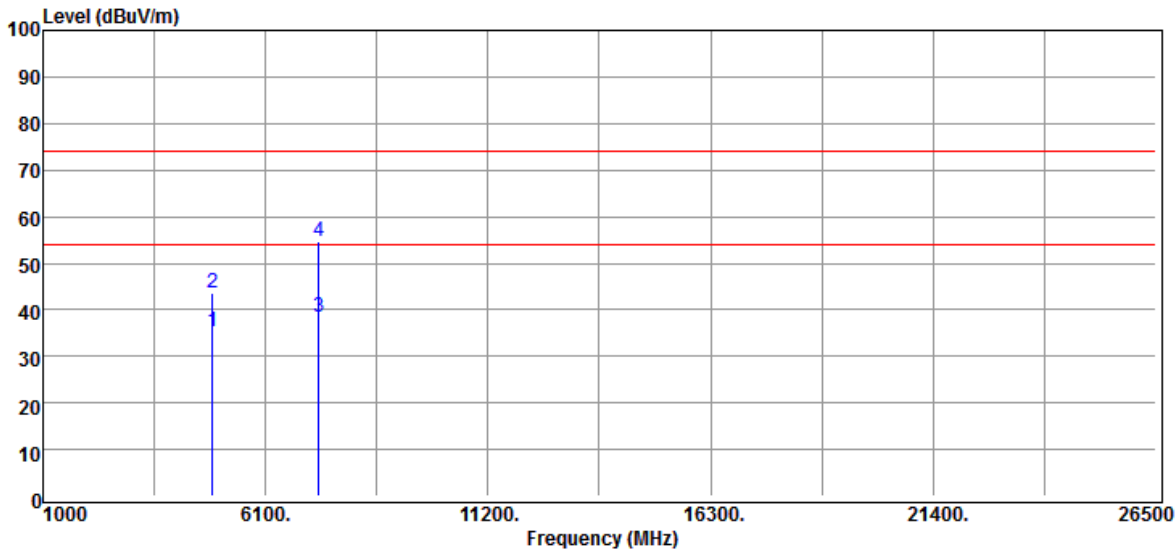
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Operation Mode	:802.11n20	Test Date	:2018-10-18
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2442 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4884.00	Average	22.68	12.63	35.31	54.00	-18.69
4884.00	Peak	31.03	12.63	43.66	74.00	-30.34
7326.00	Average	18.33	20.08	38.41	54.00	-15.59
7326.00	Peak	34.45	20.08	54.53	74.00	-19.47

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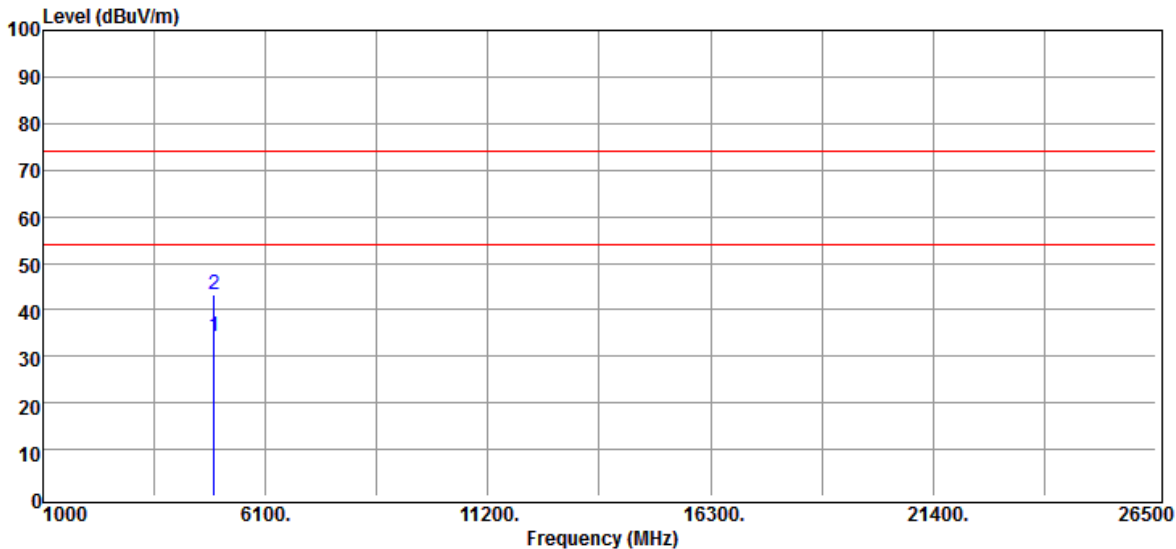
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Operation Mode	:802.11n20	Test Date	:2018-10-18
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2462 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	21.33	12.78	34.11	54.00	-19.89
4924.00	Peak	30.62	12.78	43.40	74.00	-30.60

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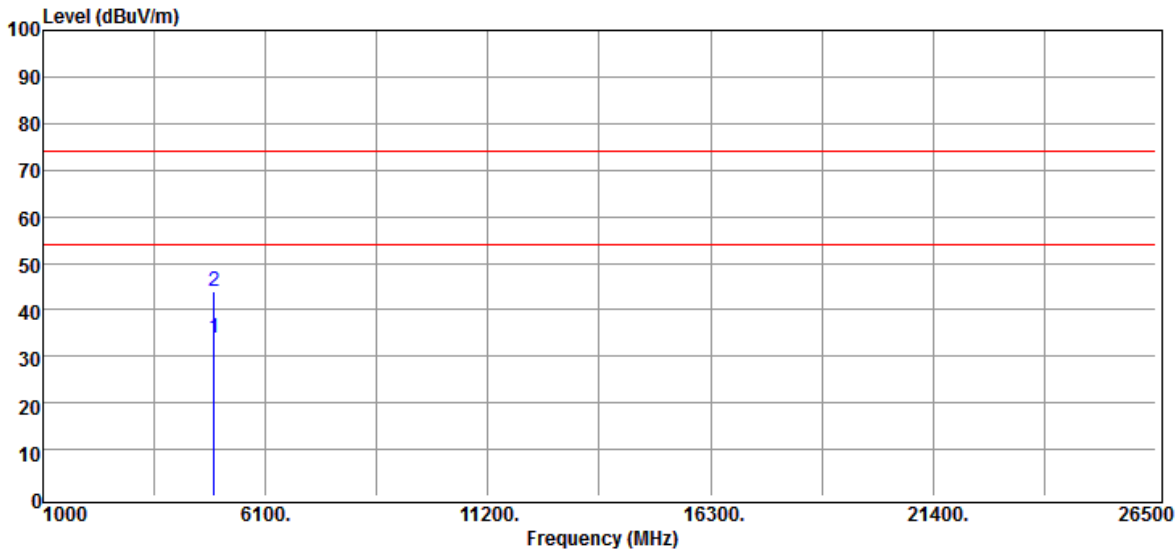
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Operation Mode	:802.11n20	Test Date	:2018-10-18
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2462 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	21.09	12.78	33.87	54.00	-20.13
4924.00	Peak	31.04	12.78	43.82	74.00	-30.18

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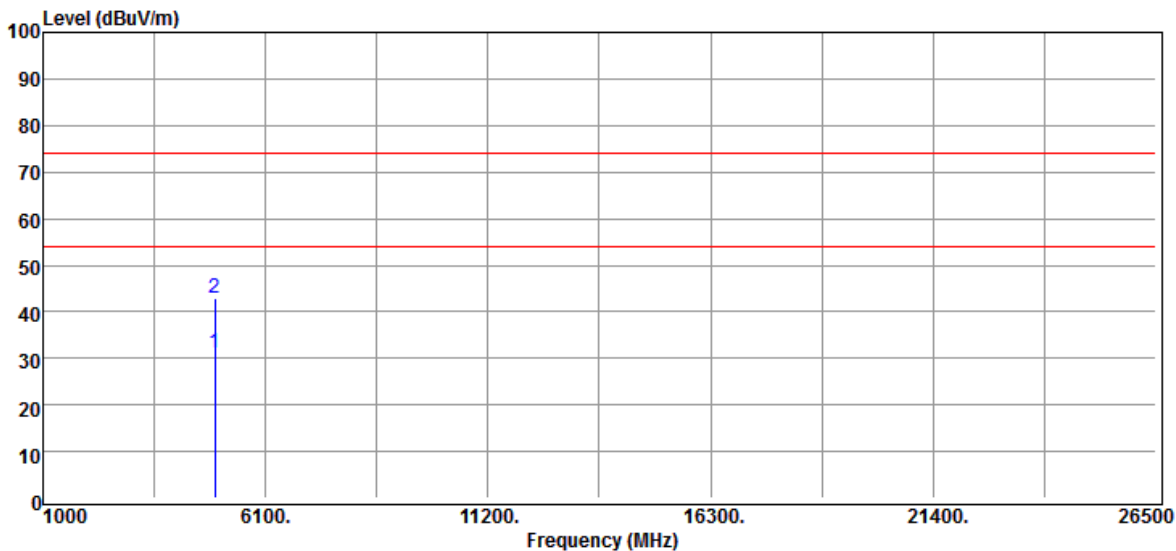
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Operation Mode :802.11n20
Test Mode :TX CH 12
EUT Pol :H Plan
Test Channel :2467 MHz

Test Date :2018-10-18
Temp./Humi. :25/60
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4934.00	Average	18.46	12.82	31.28	54.00	-22.72
4934.00	Peak	30.04	12.82	42.86	74.00	-31.14

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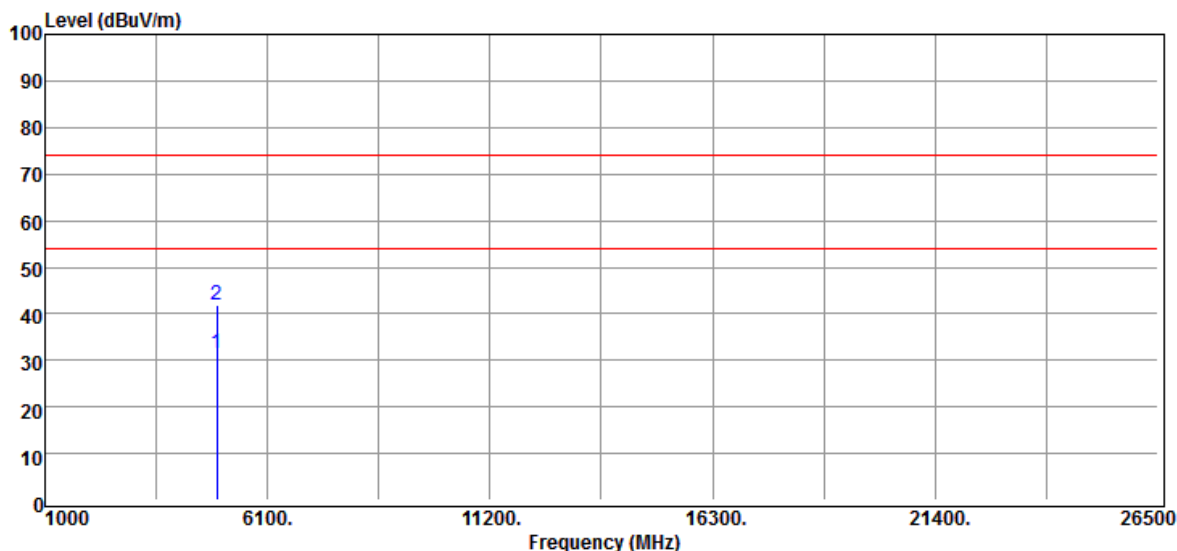
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Operation Mode	:802.11n20	Test Date	:2018-10-18
Test Mode	:TX CH 12	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2467 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4934.00	Average	18.74	12.82	31.56	54.00	-22.44
4934.00	Peak	28.92	12.82	41.74	74.00	-32.26

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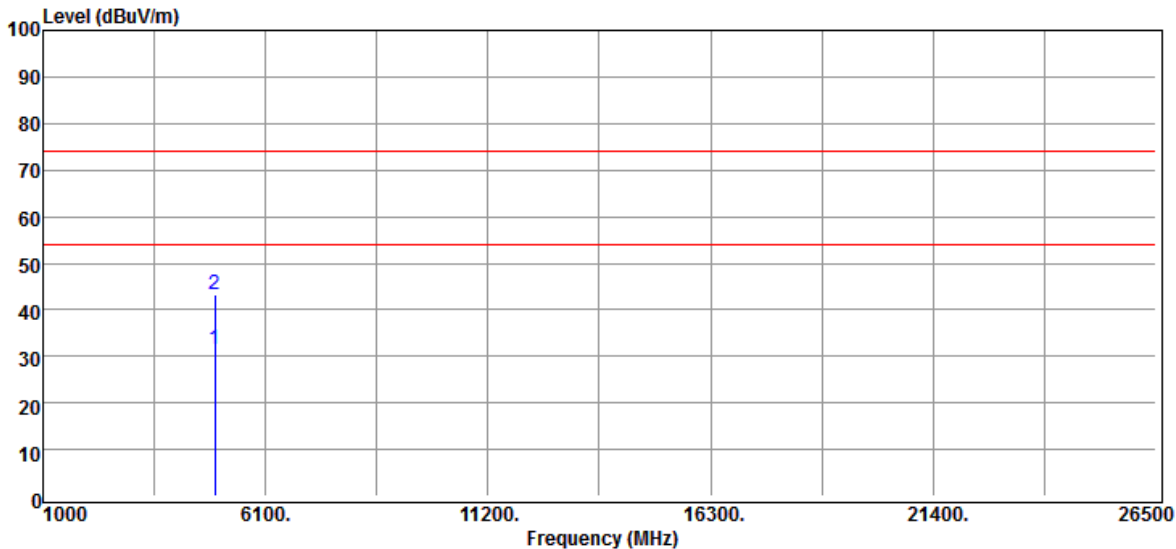
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Operation Mode :802.11n20
Test Mode :TX CH 13
EUT Pol :H Plan
Test Channel :2472 MHz

Test Date :2018-10-18
Temp./Humi. :25/60
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4944.00	Average	18.66	12.87	31.53	54.00	-22.47
4944.00	Peak	30.29	12.87	43.16	74.00	-30.84

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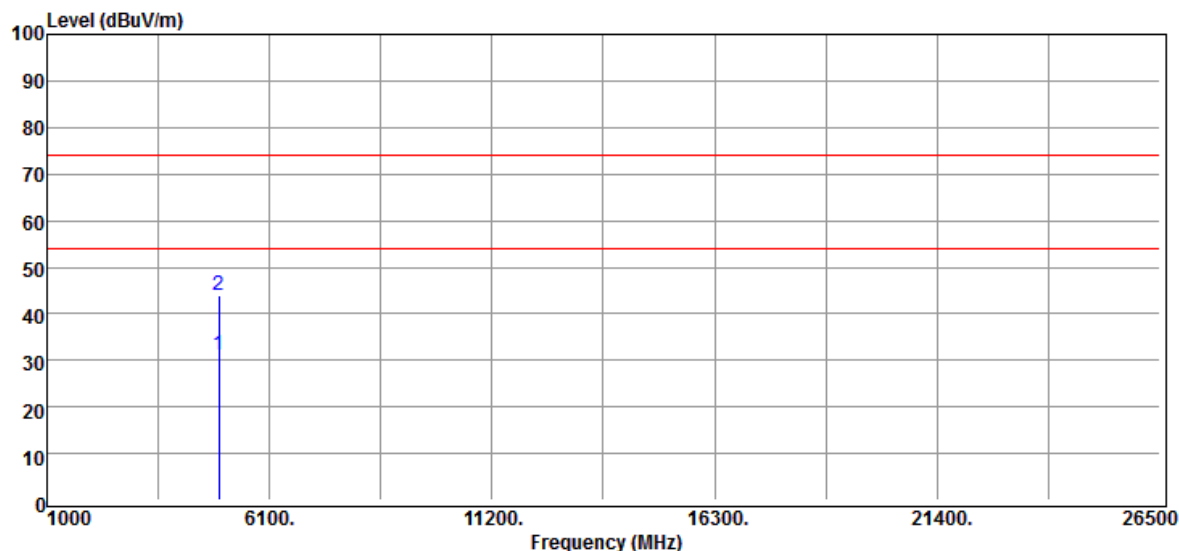
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Operation Mode :802.11n20
Test Mode :TX CH 13
EUT Pol :H Plan
Test Channel :2472 MHz

Test Date :2018-10-18
Temp./Humi. :25/60
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4944.00	Average	18.43	12.87	31.30	54.00	-22.70
4944.00	Peak	31.02	12.87	43.89	74.00	-30.11

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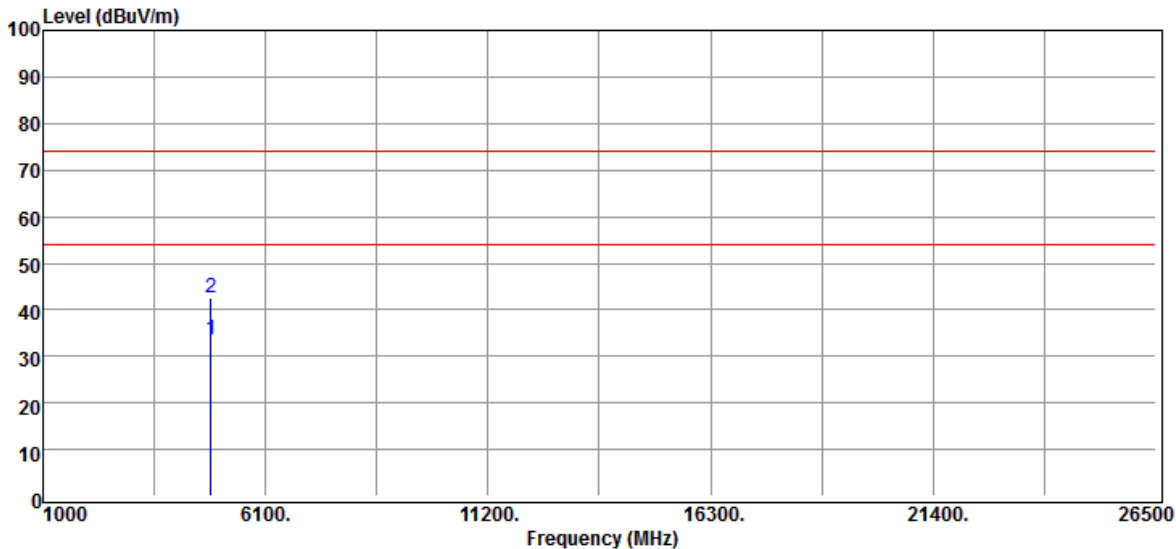
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Operation Mode	:802.11n40	Test Date	:2018-10-18
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2422 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4844.00	Average	21.16	12.46	33.62	54.00	-20.38
4844.00	Peak	30.07	12.46	42.53	74.00	-31.47

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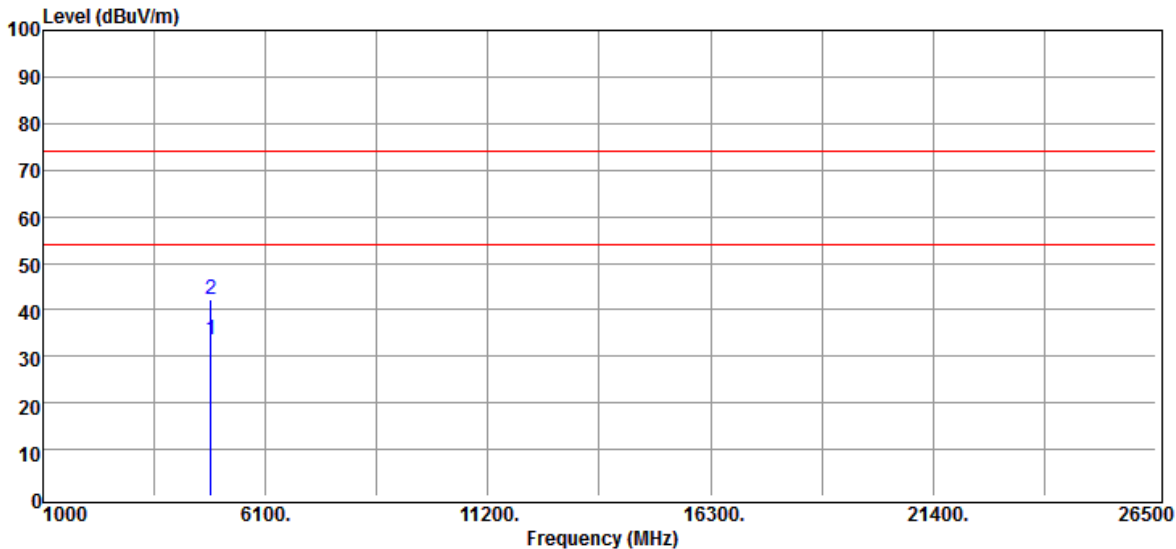
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Operation Mode	:802.11n40	Test Date	:2018-10-18
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2422 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4844.00	Average	21.25	12.46	33.71	54.00	-20.29
4844.00	Peak	29.83	12.46	42.29	74.00	-31.71

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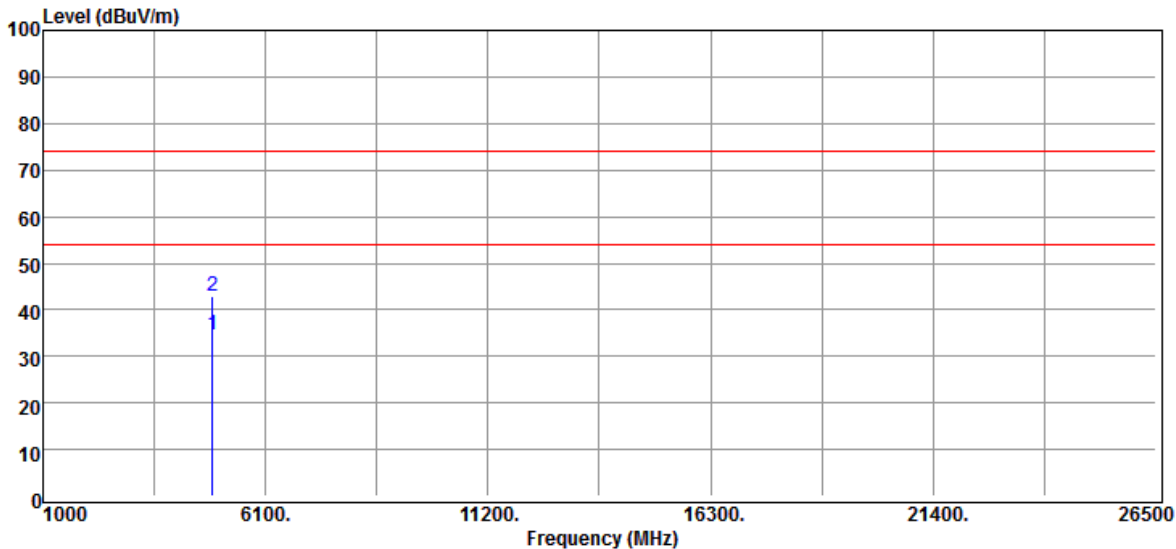
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Operation Mode	:802.11n40	Test Date	:2018-10-18
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2442 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4884.00	Average	21.95	12.63	34.58	54.00	-19.42
4884.00	Peak	30.20	12.63	42.83	74.00	-31.17

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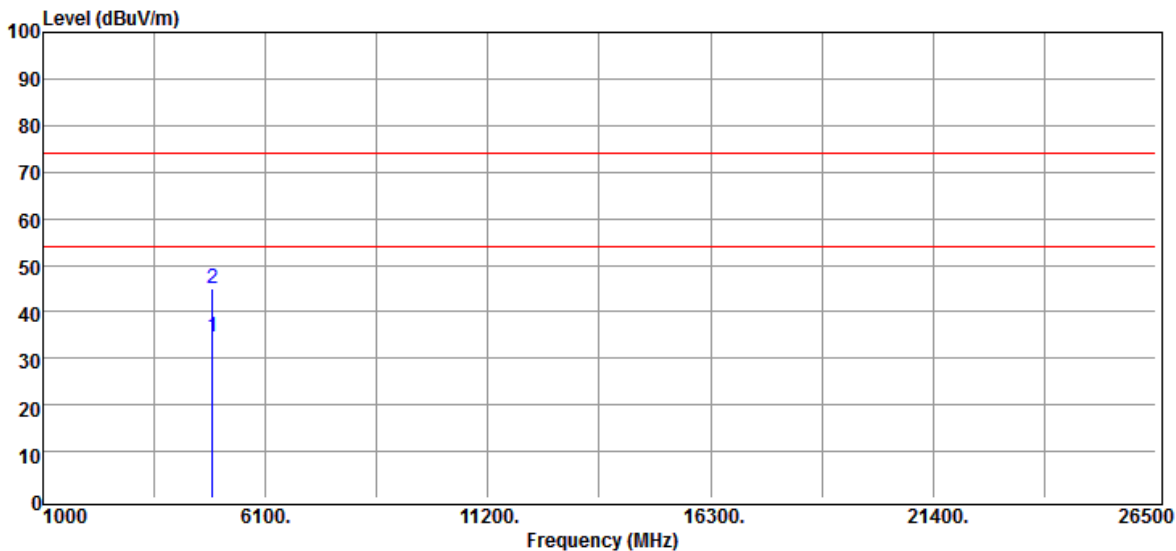
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Operation Mode	:802.11n40	Test Date	:2018-10-18
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2442 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4884.00	Average	22.05	12.63	34.68	54.00	-19.32
4884.00	Peak	32.41	12.63	45.04	74.00	-28.96

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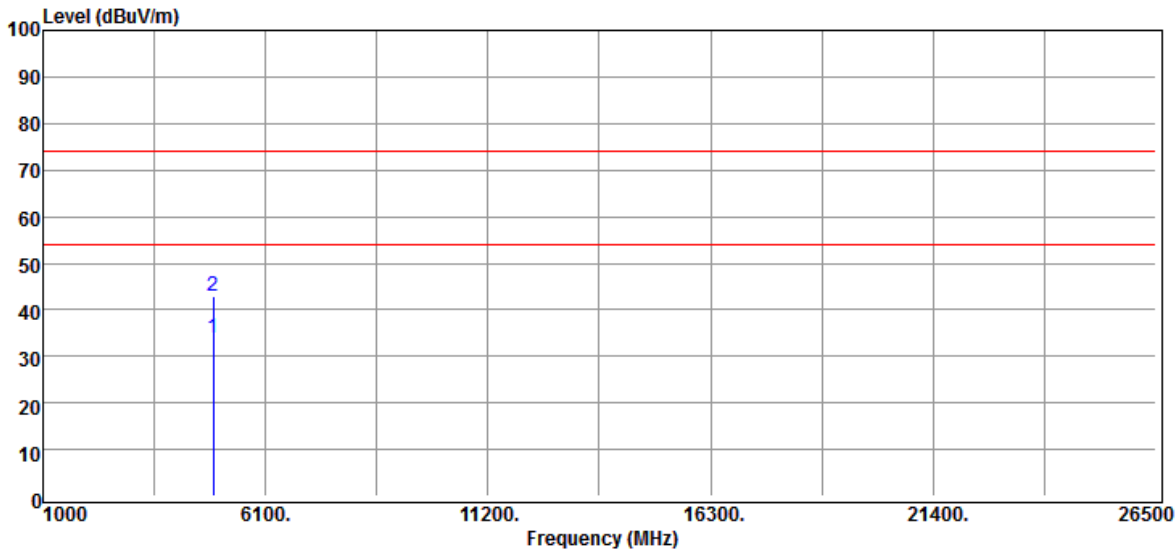
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Operation Mode	:802.11n40	Test Date	:2018-10-18
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2452 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4904.00	Average	21.20	12.72	33.92	54.00	-20.08
4904.00	Peak	30.23	12.72	42.95	74.00	-31.05

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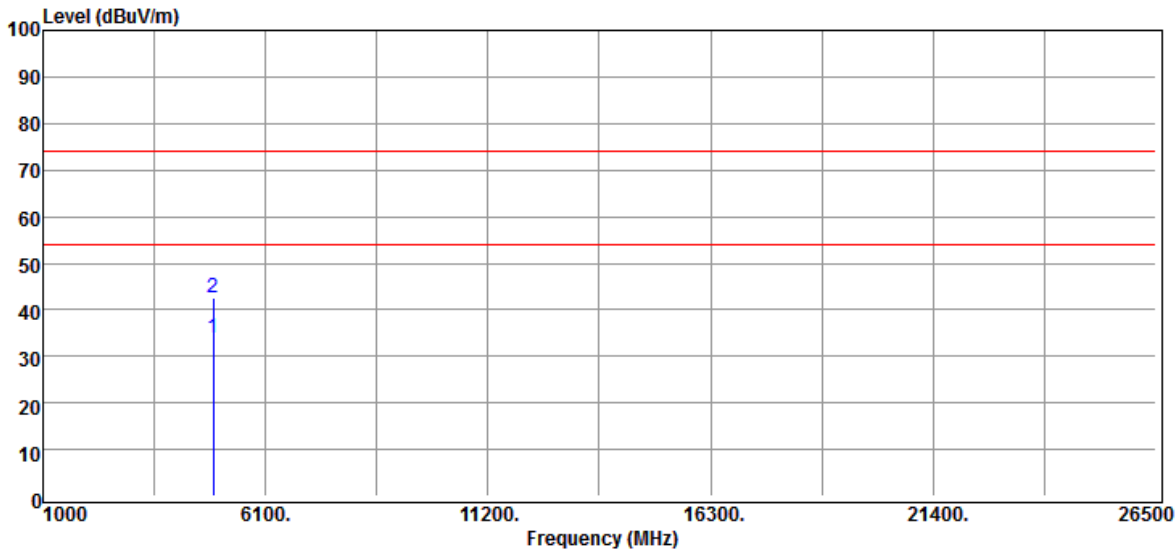
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Operation Mode	:802.11n40	Test Date	:2018-10-18
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2452 MHz	Engineer	:Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4904.00	Average	21.15	12.72	33.87	54.00	-20.13
4904.00	Peak	29.84	12.72	42.56	74.00	-31.44

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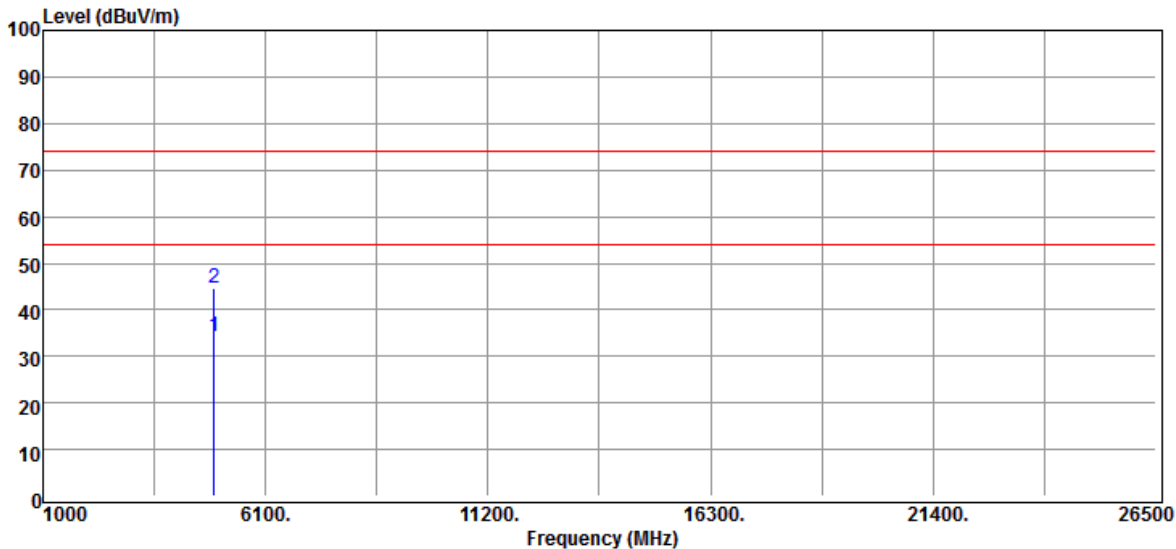
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Operation Mode :802.11n40
Test Mode :TX CH 10
EUT Pol :H Plan
Test Channel :2457 MHz

Test Date :2018-10-18
Temp./Humi. :25/60
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4914.00	Average	21.45	12.75	34.20	54.00	-19.80
4914.00	Peak	31.75	12.75	44.50	74.00	-29.50

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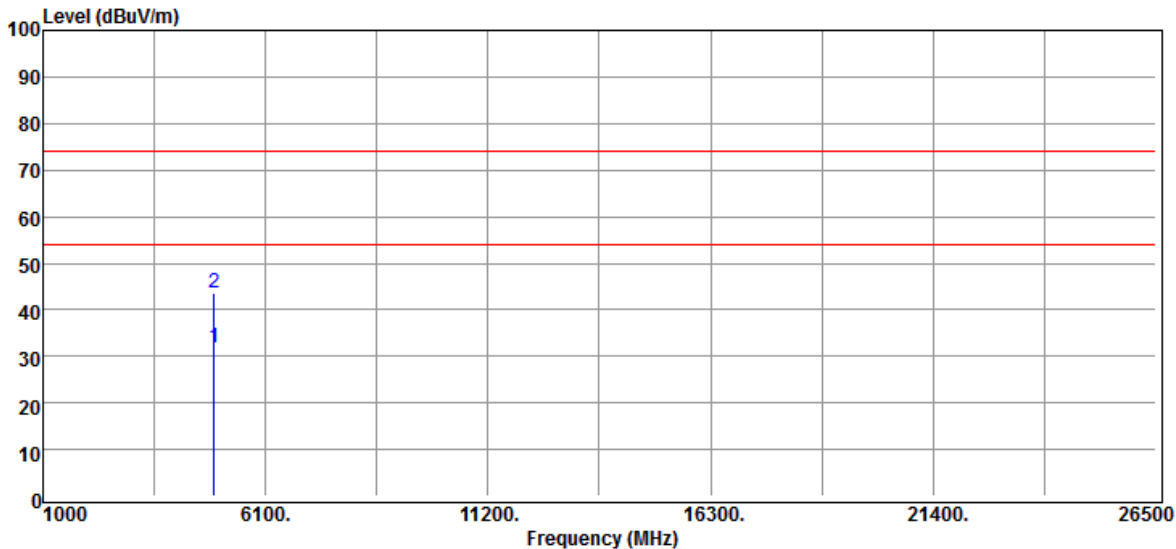
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Operation Mode :802.11n40
Test Mode :TX CH 10
EUT Pol :H Plan
Test Channel :2457 MHz

Test Date :2018-10-18
Temp./Humi. :25/60
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4914.00	Average	19.08	12.75	31.83	54.00	-22.17
4914.00	Peak	30.99	12.75	43.74	74.00	-30.26

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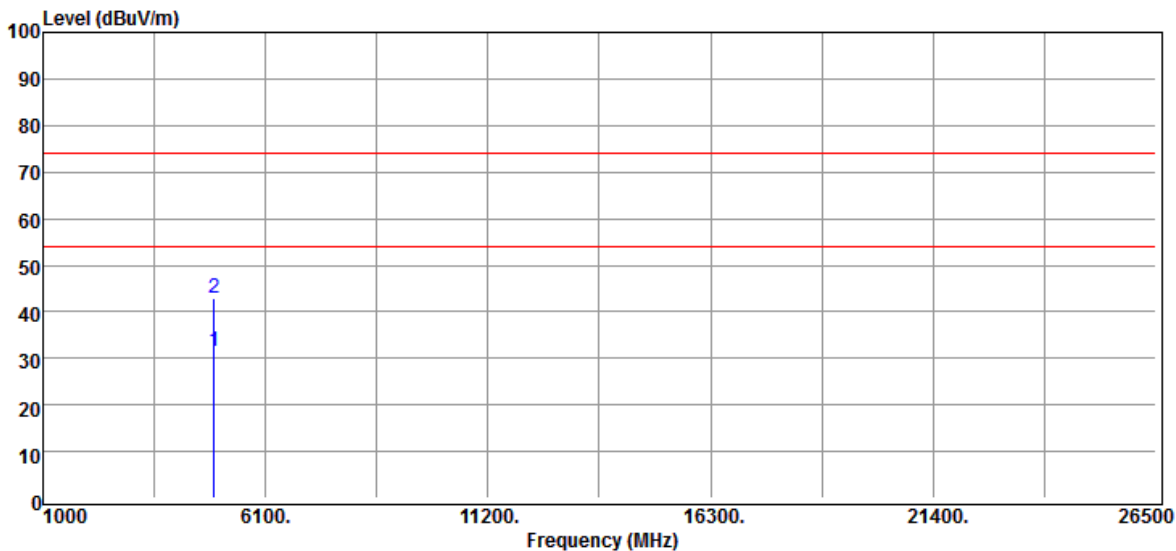
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Operation Mode :802.11n40
Test Mode :TX CH 11
EUT Pol :H Plan
Test Channel :2462 MHz

Test Date :2018-10-18
Temp./Humi. :25/60
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	18.80	12.78	31.58	54.00	-22.42
4924.00	Peak	30.12	12.78	42.90	74.00	-31.10

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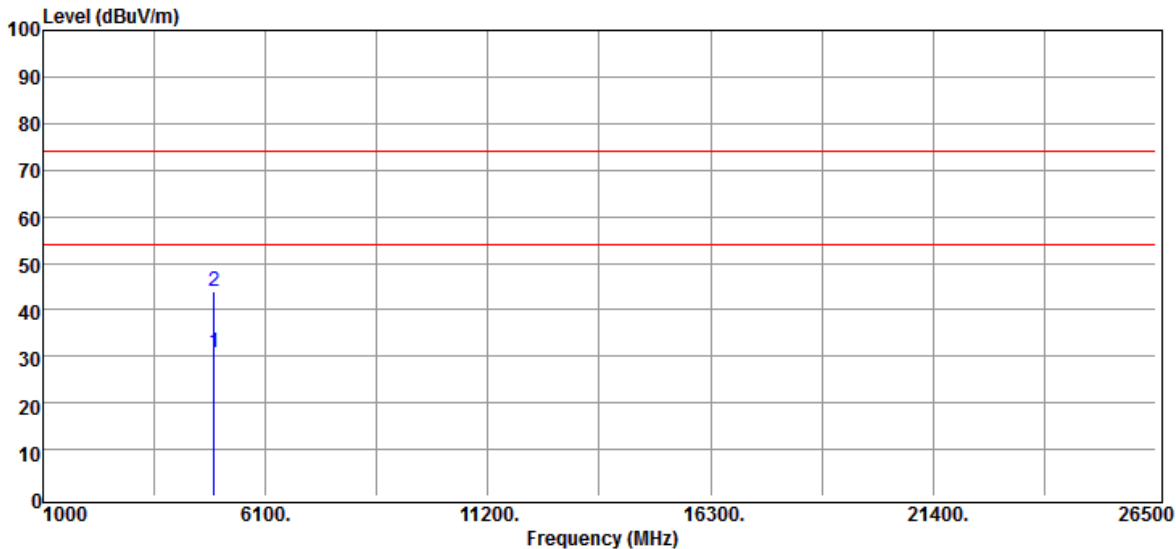
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Operation Mode :802.11n40
Test Mode :TX CH 11
EUT Pol :H Plan
Test Channel :2462 MHz

Test Date :2018-10-18
Temp./Humi. :25/60
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4924.00	Average	18.14	12.78	30.92	54.00	-23.08
4924.00	Peak	31.06	12.78	43.84	74.00	-30.16

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7 ANTENNA REQUIREMENT

7.1 Standard Applicable

For intentional device, 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.

If the transmitting antenna is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

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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