

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION REFERENCING TEST DATA ACROSS SEPARATE EQUIPMENT VERIFICATION

OF

Applicant: GadgeTek Inc.
7F.-5, NO.369, FUXING N. RD., SONGSHAN DIST., TAIPEI
CITY 10541, TAIWAN

Product Name: Click to Pray eRosary

Brand Name: GTI

Model No.: GWD902

Model Difference: N/A

Report Number: T19829W02-RP1

FCC ID: 2AT5G-GWD902

FCC Rule Part: Part 15C / §15.247, Cat: DTS

Issue Date: Sep. 17, 2019

Date of Test: Sep. 02, 2019 ~ Sep. 12, 2019

Date of EUT Received: Sep. 02, 2019

Issued by: Compliance Certification Services Inc. Wugu Lab.
No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891,
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service@ccsrf.com

The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this report. The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc. (Wugu Laboratory).

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Kailin Lee

Tested By:

Kailin Lee / Engineer

Kevin Tsai

Approved By:

Kevin Tsai / Deputy Manager



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Revision History

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
T190829W02-RP1	Rev.00	Initial creation of document	All	Sep. 17, 2019	Elle Chang

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1 GENERAL INFORMATION

1.1 Product description

General:

Product Name:	Click to Pray eRosary	
Brand Name:	GTI	
Model No.:	GWD902	
Model Difference:	N/A	
Hardware Version:	N/A	
Software Version:	N/A	
Wireless Charger:	Model No.: GWD901C, Supplier: GadgeTek Inc.	
Power Supply:	3.7Vdc from Rechargeable Battery or 5.0V from wireless charger	
	Battery:	Model No.: PL400811D, Supplier: Huizhou Everpower Technology Co., Ltd.

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1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC Part 15, Supbpart C

FCC KDB 484596 D01 Referencing Test Data v01

FCC KDB 558074 D01 v05r01 DTS Meas. Guidance

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

Compliance Certification Services Inc. Wugu Lab. No.11, Wugong 6th Rd.,

Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.) (TAF code 1309)

FCC Designation number: TW1309

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

2.3.1 Radiated Emissions for WPC

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.

2.3.2 Radiated Emissions for DTS

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. 2-1 Radiated Emission Configuration (BLE & WPC)



Table 2-1 Equipment Used in Tested System

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

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.247(d)	Radiated Spurious Emission	Compliant
§15.209	Radiated Emission Limits, general requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 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 base on the worst case of original FCC ID: 2AT5G-GWD901 for DTS and WPC.

RADIATED EMISSION TEST:

MODE	AVAILABLE FREQUENCY (MHz)	TESTED FREQUENCY (MHz)	MODULATION	DATA RATE (Mbps)	Worst Case Position H / E1 / E2
Bluetooth LE	2402 to 2480	2402,2442,2480	GFSK	1	E2
Bluetooth LE	2402 to 2480	2402,2442,2480	GFSK	2	E2
WPC	150.9~207.4 kHz	156kHz	ASK	-	E2

Note:

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

For WPC mode, the frequency 156kHz is the default channel to test, where it is the only manipulative channel as this application supports. The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode), the worst case was reported.

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5 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
3M Semi Anechoic Chamber / 30M~200M	+/- 4.12 dB
3M Semi Anechoic Chamber / 200M~1000M	+/- 4.68 dB
3M Semi Anechoic Chamber / 1G~8G	+/- 5.18 dB
3M Semi Anechoic Chamber / 8G~18G	+/- 5.47 dB
3M Semi Anechoic Chamber / 18G~26G	+/- 3.81 dB
3M Semi Anechoic Chamber / 26G~40G	+/- 3.87 dB

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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6 RADIATED SPURIOUS EMISSION MEASUREMENT

6.1 Measurement Equipment Used:

966A Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Low Pass Filter	EWT	EWT-56-0019	RF46	02/26/2019	02/25/2020
High Pass Filter	R&S	F13 HPF 3GHz	RF64	02/26/2019	02/25/2020
Band Reject Filters	MICRO TRONICS	BRM 50702	120	02/26/2019	02/25/2020
Bilog Antenna	Sunol Sciences	JB3	A030105	07/26/2019	07/25/2020
Cable	HUBER SUHNER	SUCOFLEX 104PEA	25157	02/26/2019	02/25/2020
Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	02/26/2019	02/25/2020
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	01/30/2019	01/29/2020
Loop Antenna	COM-POWER	AL-130	121051	03/22/2019	03/21/2020
Horn Antenna	SCHWARZBECK	BBHA 9120D	779	03/09/2019	03/08/2020
Pre-Amplifier	EMEC	EM330	060609	02/26/2019	02/25/2020
Pre-Amplifier	HP	8449B	3008A00965	02/26/2019	02/25/2020
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	05/29/2019	05/28/2020
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Software	e3 V6.11-20180413				

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

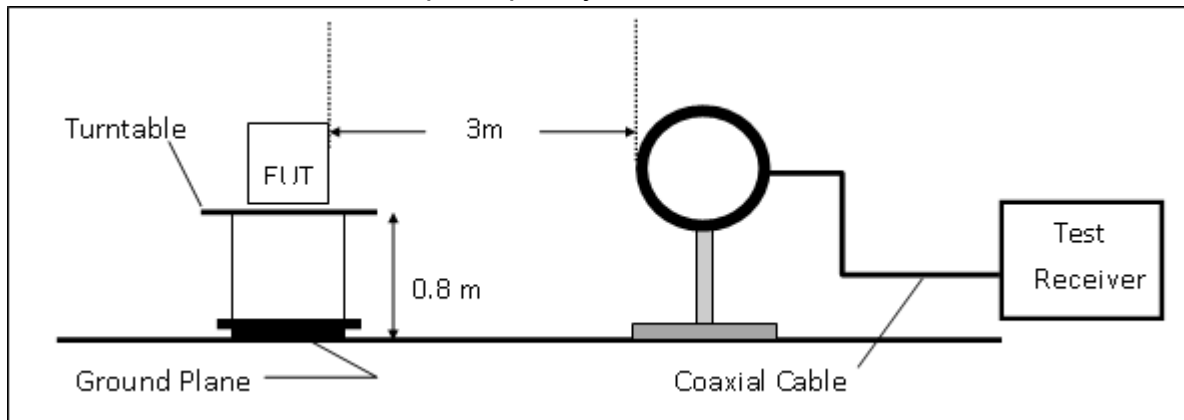
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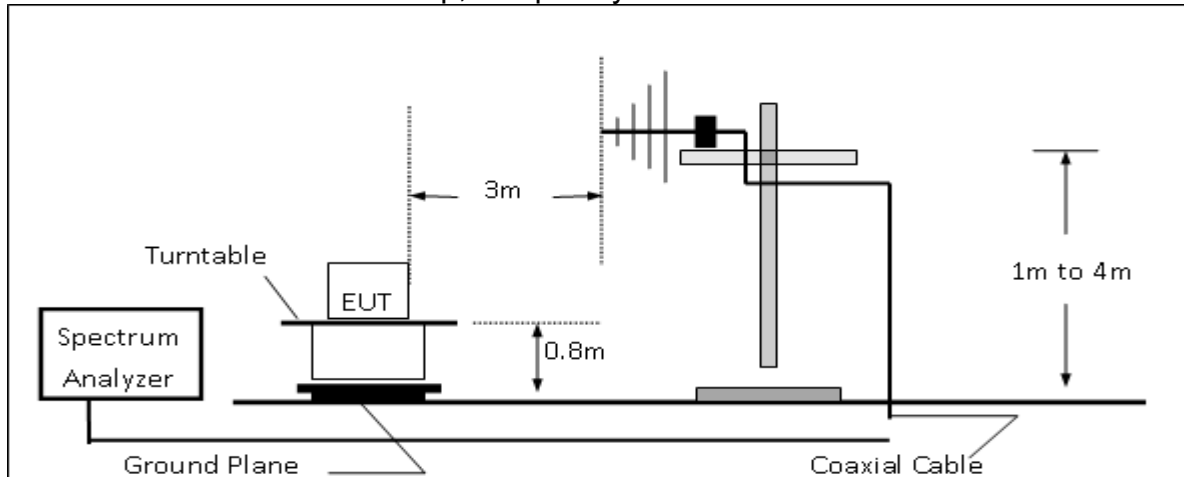
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6.2 Test SET-UP

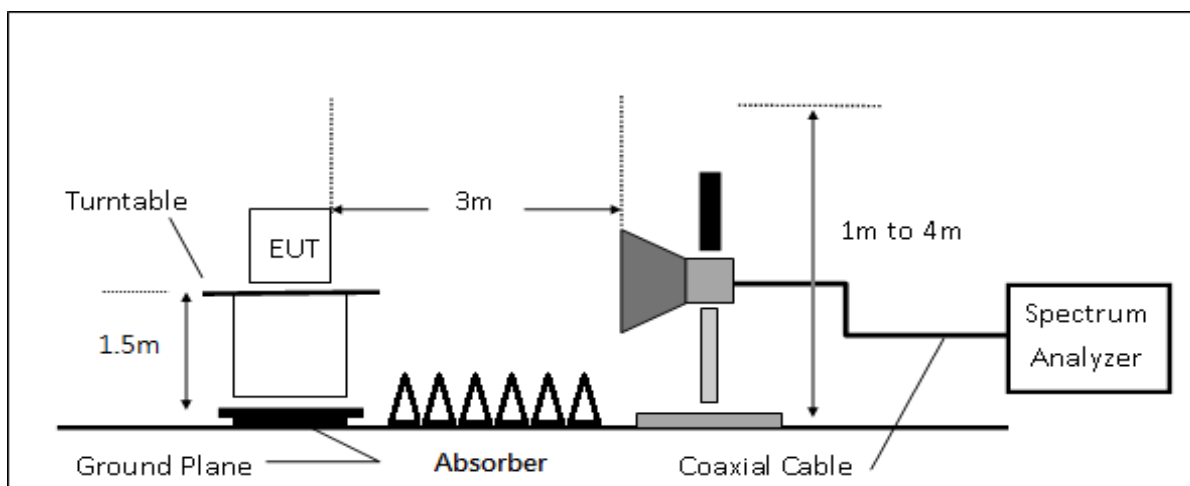
(A) Radiated Emission Test Set-Up Frequency Below 30MHz.



(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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6.3 Measurement Procedure

For DTS,

1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance & ANSI C63.10.
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plan.
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. 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.
6. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
7. 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.
8. 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.
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. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
11. Repeat above procedures until all default test channel measured were complete.

For WPC,

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

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6.4 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)

6.5 Field Strength of Fundamental Emission for WPC

6.5.1 Limit

Below 30MHz

Frequency (MHz)	Limit (μV/m)	Measurement distance (meters)	Remark
0.009-0.490	2400/F(kHz)	300	Quasi-Peak Value
0.490-1.705	24000/F(kHz)	30	Quasi-Peak Value
1.705-30.0	30	30	Quasi-Peak Value

Above 30MHz

Frequency (MHz)	Limit (dBμV/m @3m)	Remark
30-88	40	Quasi-Peak Value
88-216	43.5	Quasi-Peak Value
216-960	46	Quasi-Peak Value
Above 960	54	Quasi-Peak Value
Above 1GHz	54	Average Value
	74	Peak Value

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Note:

1. The measurement was undertaken in closer distance at 3m, where extrapolation factor is off-set to convert the limit of the measurement. $\text{Ex. } 20 \cdot \log(30) + 40 \cdot \log(30/3) = 69.54 \text{ dB}\mu\text{V/m}$
2. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
3. $\text{Actual FS(dB}\mu\text{V/m)} = \text{Spectrum. Reading level(dB}\mu\text{V)} + \text{Factor(dB)}$
 $\text{Factor(dB)} = \text{Antenna Factor(dB}\mu\text{V/m)} + \text{Cable Loss(dB)} - \text{Pre_Amplifier Gain(dB)}$

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

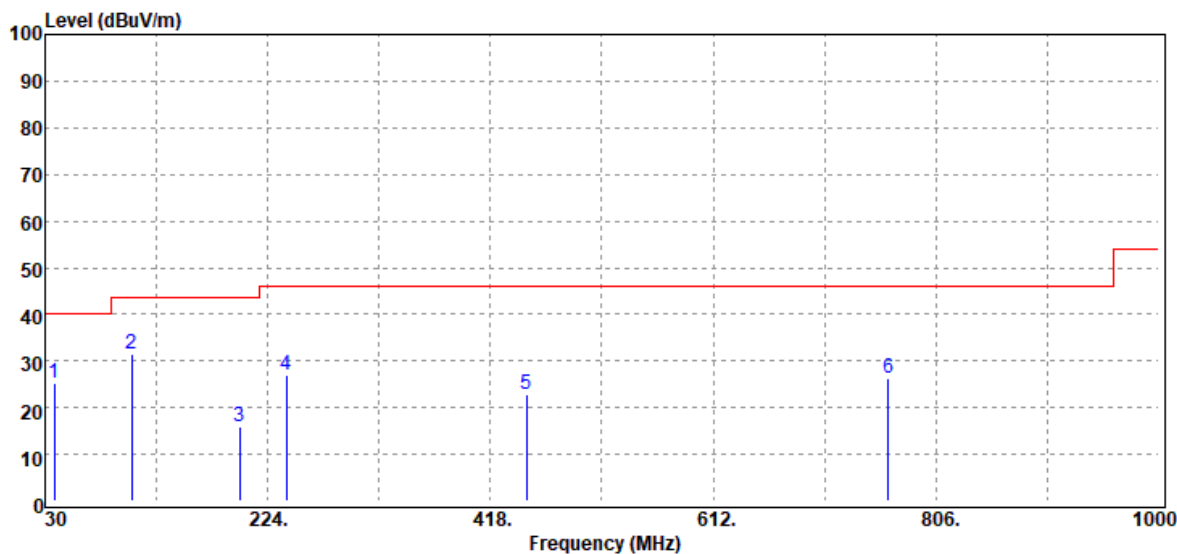
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6.6 Measurement Result

Test Mode: BLE (1M)

Project Number	:T190829W02	Test Date	:2019-08-30
Operation Band	:BLE 1M	Temp./Humi.	:25.5/51
Fundamental Frequency	:2402 MHz	Engineer	:Kailin
Operation Mode	:Tx CH Low	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plan		



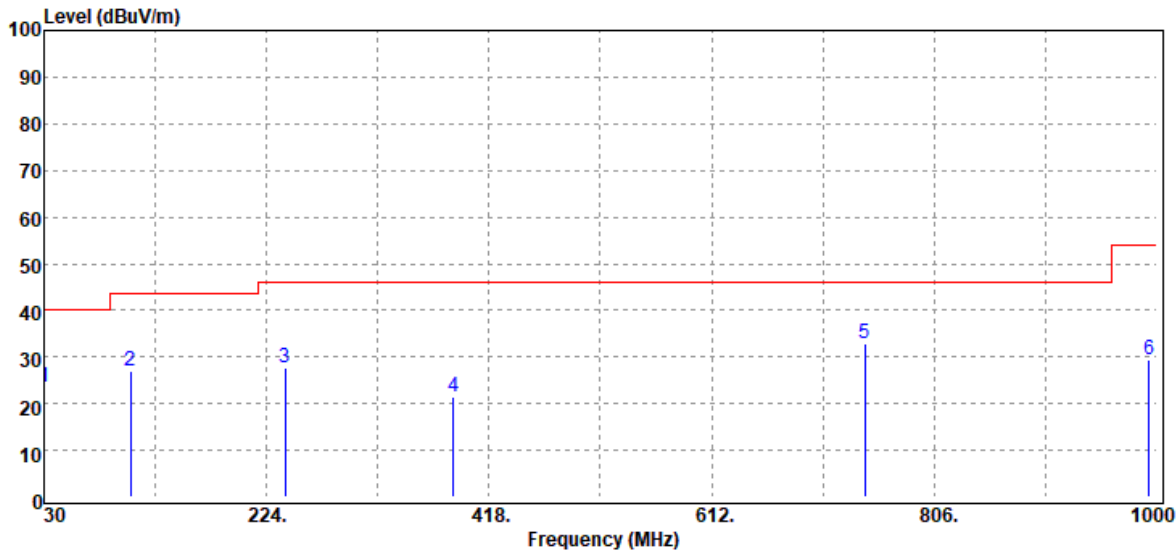
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
37.76	Peak	33.27	-7.85	25.42	40.00	-14.58
105.66	Peak	42.42	-11.02	31.40	43.50	-12.10
199.75	Peak	25.13	-9.29	15.84	43.50	-27.66
240.49	Peak	37.19	-10.25	26.94	46.00	-19.06
449.04	Peak	26.85	-3.88	22.97	46.00	-23.03
764.29	Peak	24.63	1.70	26.33	46.00	-19.67

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Project Number	:T190829W02	Test Date	:2019-08-30
Operation Band	:BLE 1M	Temp./Humi.	:25.5/51
Fundamental Frequency	:2402 MHz	Engineer	:Kailin
Operation Mode	:Tx CH Low	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plan		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
30.00	Peak	25.19	-1.51	23.68	40.00	-16.32
105.66	Peak	38.08	-11.02	27.06	43.50	-16.44
240.49	Peak	37.89	-10.25	27.64	46.00	-18.36
386.96	Peak	27.78	-6.17	21.61	46.00	-24.39
745.86	Peak	30.83	1.96	32.79	46.00	-13.21
993.21	Peak	24.40	5.17	29.57	54.00	-24.43

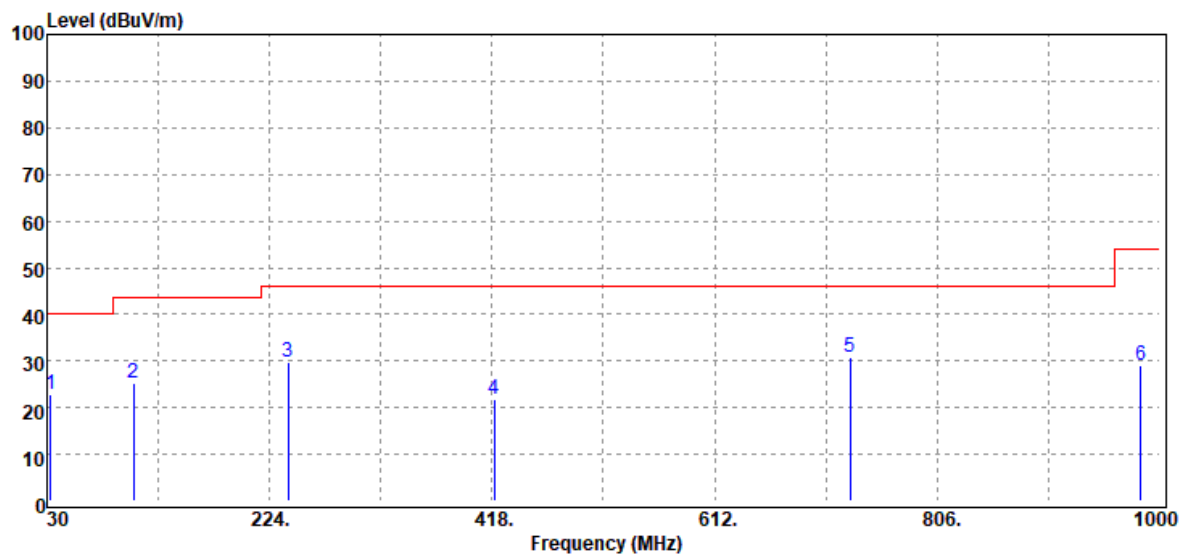
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Project Number :T190829W02
 Operation Band :BLE 1M
 Fundamental Frequency :2442 MHz
 Operation Mode :Tx CH Mid
 EUT Pol. :E2 Plan

Test Date :2019-08-30
 Temp./Humi. :25.5/51
 Engineer :Kailin
 Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
32.91	Peak	27.04	-4.28	22.76	40.00	-17.24
105.66	Peak	36.39	-11.02	25.37	43.50	-18.13
240.49	Peak	40.16	-10.25	29.91	46.00	-16.09
419.94	Peak	26.45	-4.62	21.83	46.00	-24.17
730.34	Peak	29.60	1.18	30.78	46.00	-15.22
983.51	Peak	23.62	5.45	29.07	54.00	-24.93

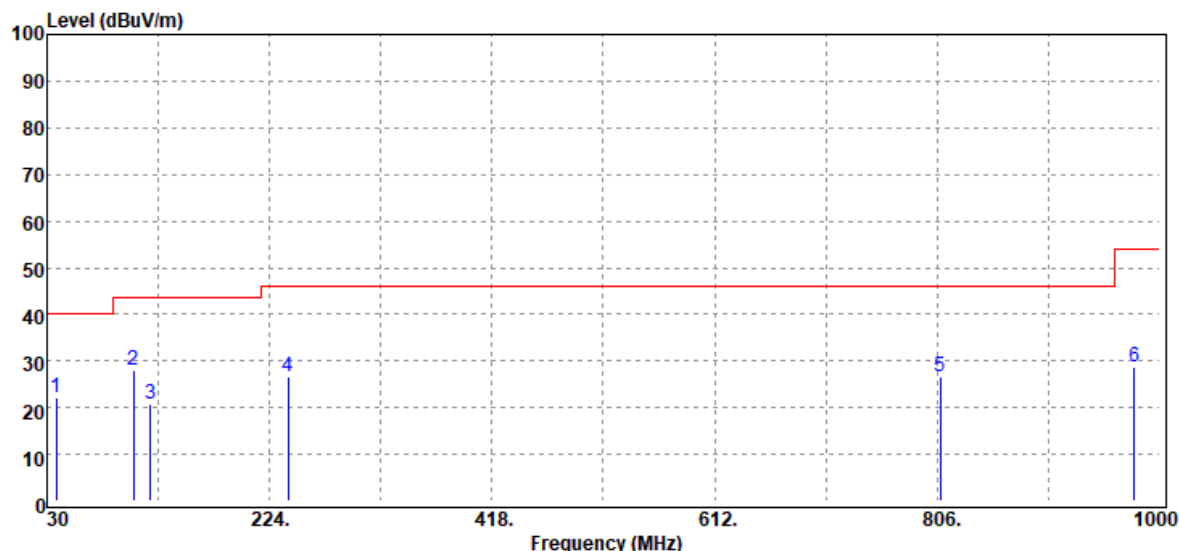
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Project Number :T190829W02
 Operation Band :BLE 1M
 Fundamental Frequency :2442 MHz
 Operation Mode :Tx CH Mid
 EUT Pol. :E2 Plan

Test Date :2019-08-30
 Temp./Humi. :25.5/51
 Engineer :Kailin
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
37.76	Peak	29.90	-7.85	22.05	40.00	-17.95
105.66	Peak	39.09	-11.02	28.07	43.50	-15.43
120.21	Peak	29.71	-8.88	20.83	43.50	-22.67
240.49	Peak	36.82	-10.25	26.57	46.00	-19.43
808.91	Peak	24.62	2.19	26.81	46.00	-19.19
977.69	Peak	23.07	5.53	28.60	54.00	-25.40

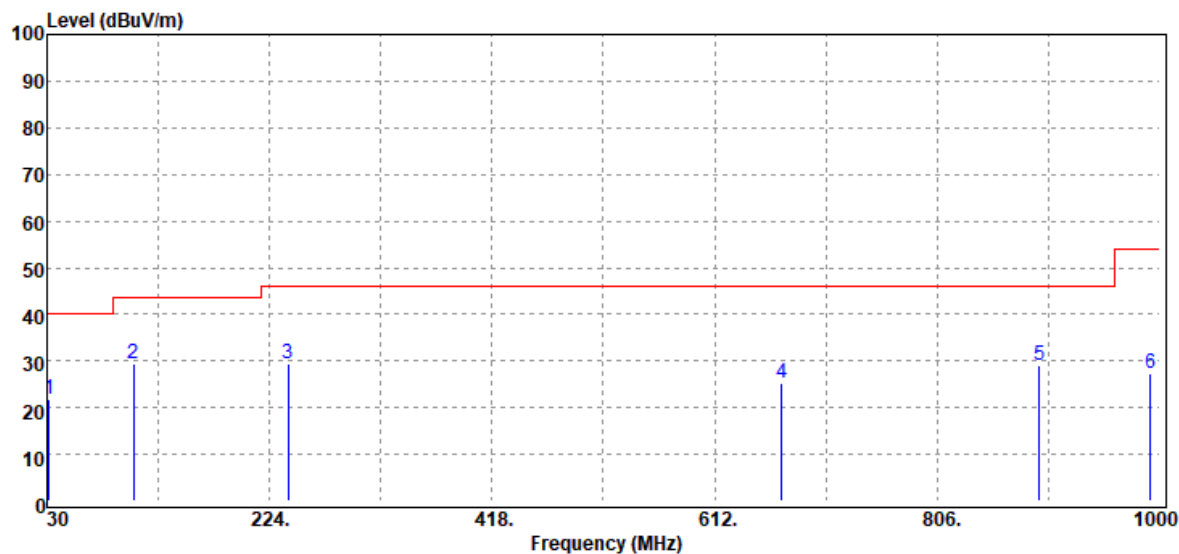
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Project Number :T190829W02
 Operation Band :BLE 1M
 Fundamental Frequency :2480 MHz
 Operation Mode :Tx CH High
 EUT Pol. :E2 Plan

Test Date :2019-08-30
 Temp./Humi. :25.5/51
 Engineer :Kailin
 Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
31.94	Peak	25.34	-3.40	21.94	40.00	-18.06
105.66	Peak	40.42	-11.02	29.40	43.50	-14.10
240.49	Peak	39.61	-10.25	29.36	46.00	-16.64
670.20	Peak	24.91	0.21	25.12	46.00	-20.88
895.24	Peak	24.97	4.05	29.02	46.00	-16.98
992.24	Peak	22.20	5.17	27.37	54.00	-26.63

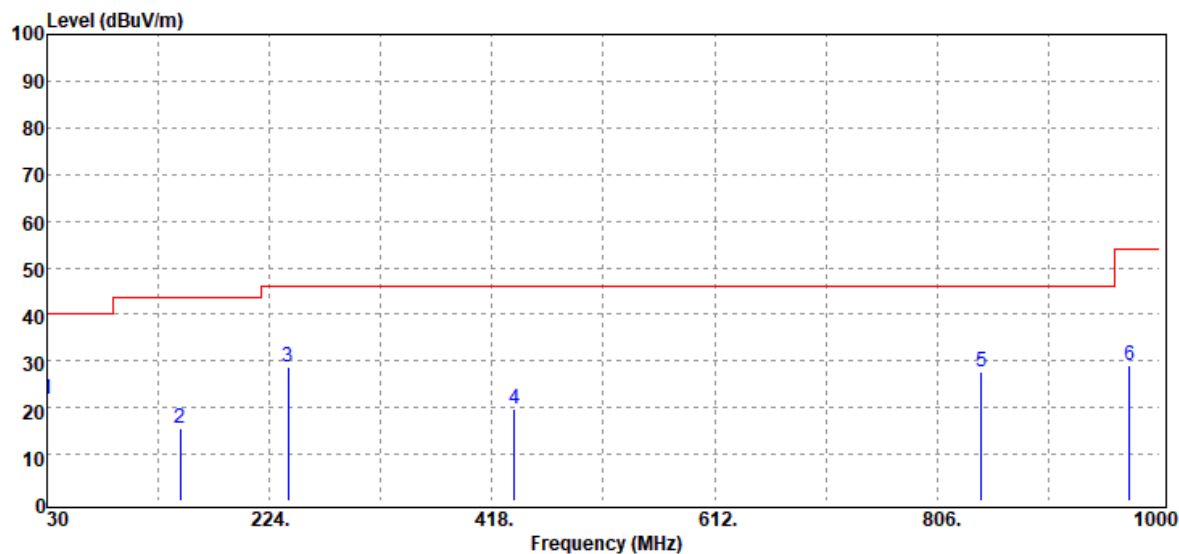
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Project Number :T190829W02
 Operation Band :BLE 1M
 Fundamental Frequency :2480 MHz
 Operation Mode :Tx CH High
 EUT Pol. :E2 Plan

Test Date :2019-08-30
 Temp./Humi. :25.5/51
 Engineer :Kailin
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
30.00	Peak	23.33	-1.51	21.82	40.00	-18.18
146.40	Peak	25.58	-10.03	15.55	43.50	-27.95
240.49	Peak	38.97	-10.25	28.72	46.00	-17.28
437.40	Peak	24.14	-4.26	19.88	46.00	-26.12
844.80	Peak	24.39	3.12	27.51	46.00	-18.49
973.81	Peak	23.46	5.63	29.09	54.00	-24.91

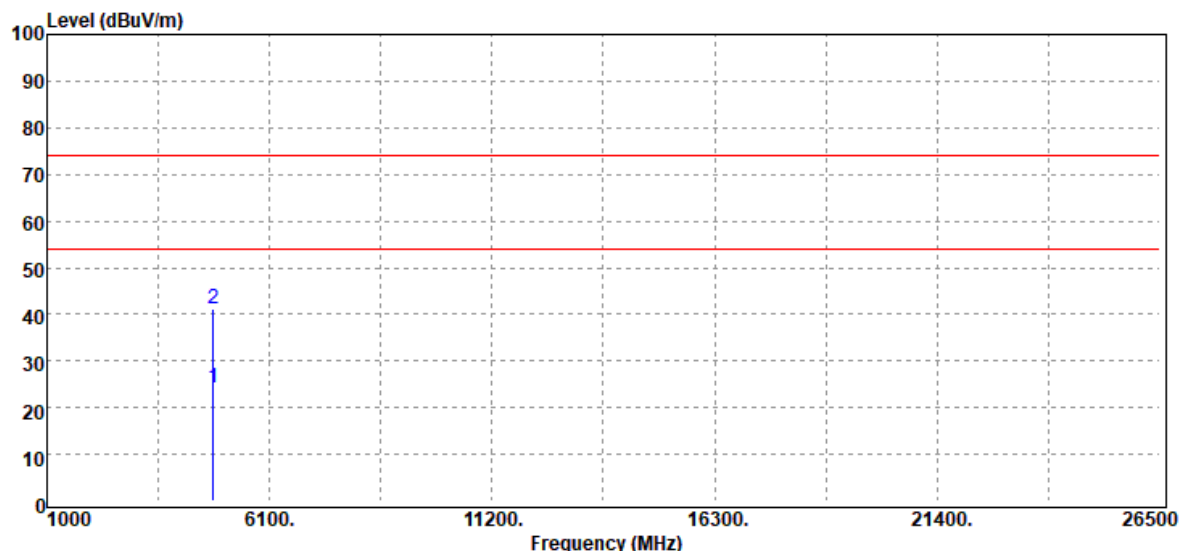
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Project Number :T190829W02
Operation Band :BLE 1M
Fundamental Frequency :2402 MHz
Operation Mode :Tx CH Low
EUT Pol. :E2 Plan

Test Date :2019-08-29
Temp./Humi. :25.5/51
Engineer :Kailin
Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4804.00	Average	21.21	2.84	24.05	54.00	-29.95
4804.00	Peak	38.26	2.84	41.10	74.00	-32.90

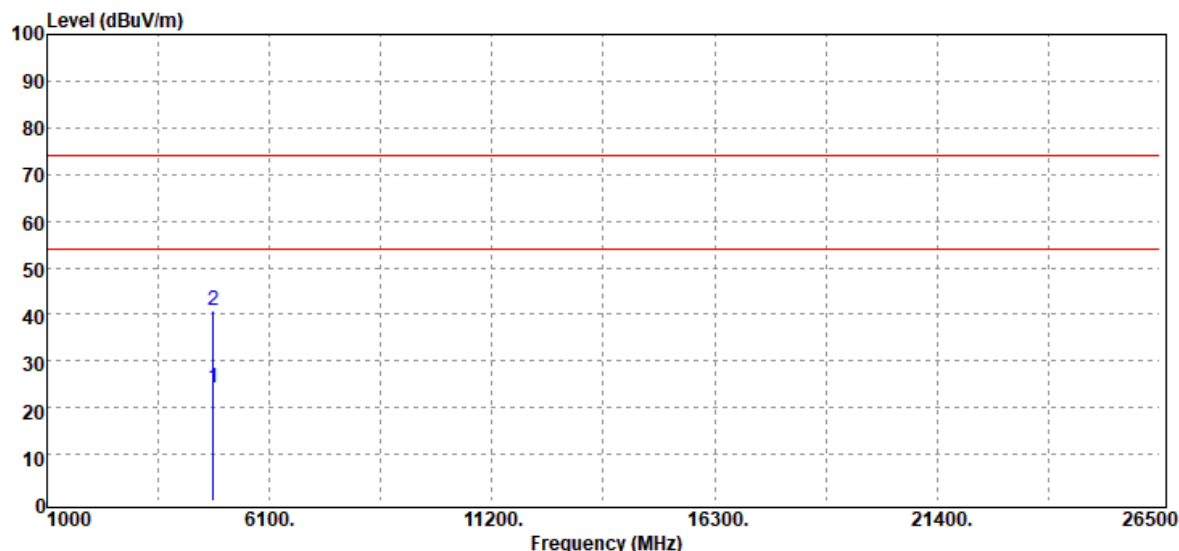
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Project Number :T190829W02
Operation Band :BLE 1M
Fundamental Frequency :2402 MHz
Operation Mode :Tx CH Low
EUT Pol. :E2 Plan

Test Date :2019-08-29
Temp./Humi. :25.5/51
Engineer :Kailin
Measurement Antenna Pol. :HORIZONTAL



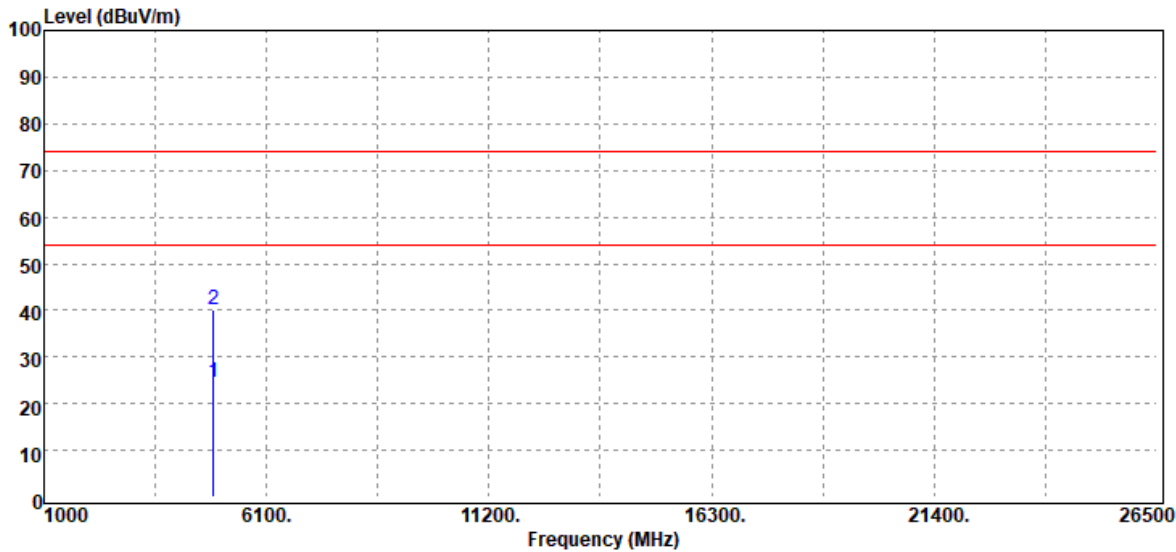
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4804.00	Average	21.33	2.84	24.17	54.00	-29.83
4804.00	Peak	38.16	2.84	41.00	74.00	-33.00

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Project Number	:T190829W02	Test Date	:2019-08-29
Operation Band	:BLE 1M	Temp./Humi.	:25.5/51
Fundamental Frequency	:2442 MHz	Engineer	:Kailin
Operation Mode	:Tx CH Mid	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plan		



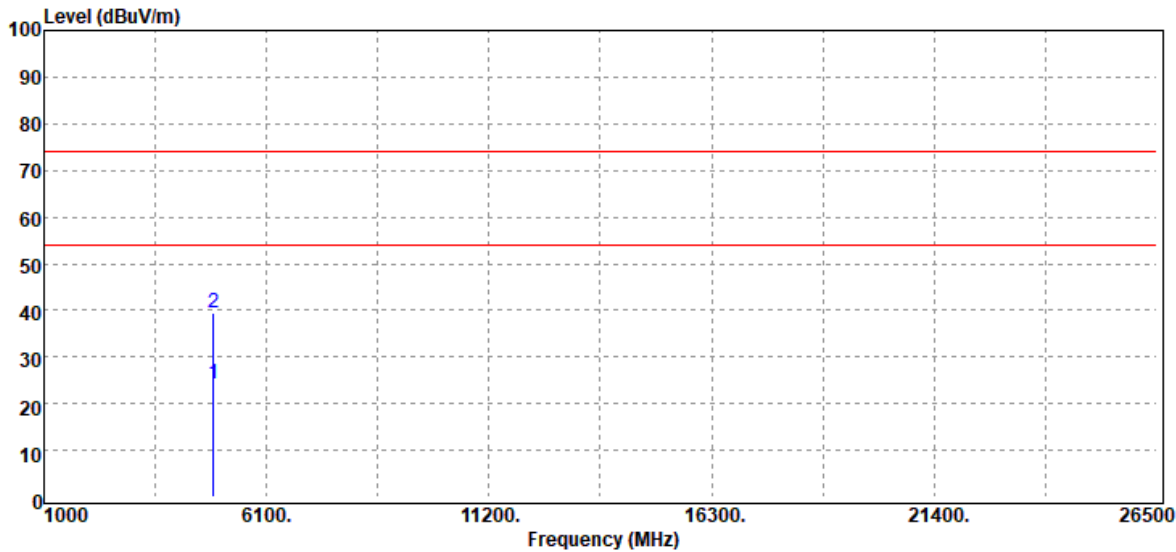
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4884.00	Average	21.35	3.05	24.40	54.00	-29.60
4884.00	Peak	37.24	3.05	40.29	74.00	-33.71

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Project Number	:T190829W02	Test Date	:2019-08-30
Operation Band	:BLE 1M	Temp./Humi.	:25.5/51
Fundamental Frequency	:2442 MHz	Engineer	:Kailin
Operation Mode	:Tx CH Mid	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plan		



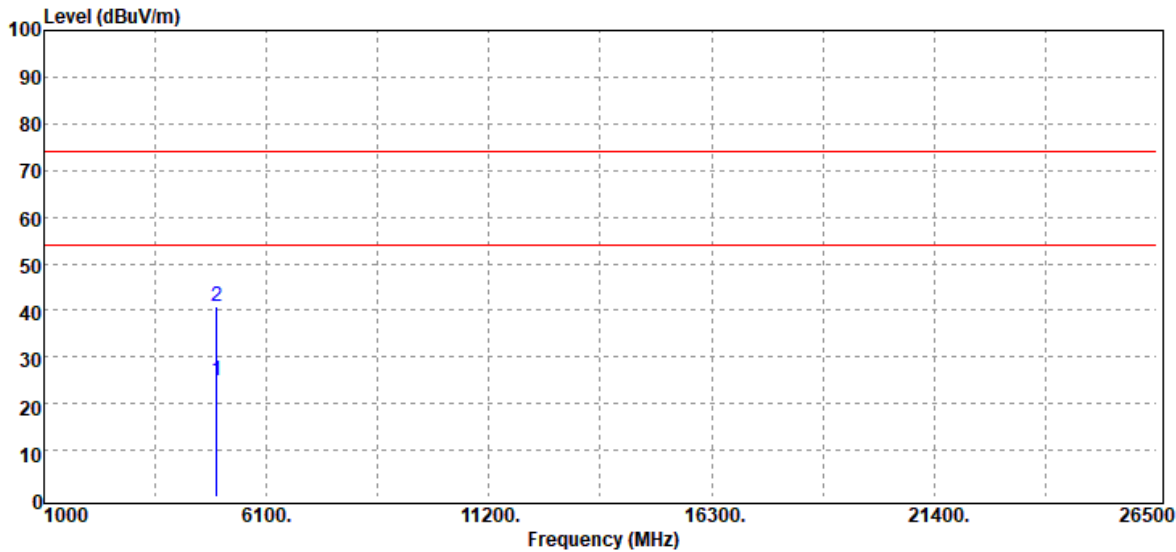
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4884.00	Average	21.27	3.05	24.32	54.00	-29.68
4884.00	Peak	36.34	3.05	39.39	74.00	-34.61

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Project Number	:T190829W02	Test Date	:2019-08-30
Operation Band	:BLE 1M	Temp./Humi.	:25.5/51
Fundamental Frequency	:2480 MHz	Engineer	:Kailin
Operation Mode	:Tx CH High	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plan		



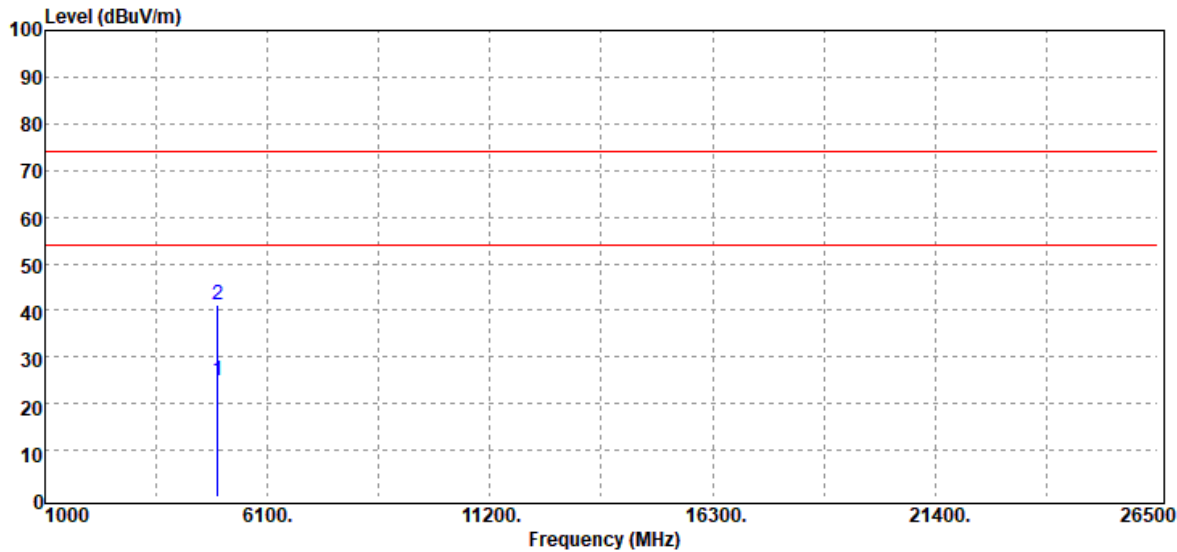
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4960.00	Average	21.06	3.85	24.91	54.00	-29.09
4960.00	Peak	36.92	3.85	40.77	74.00	-33.23

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Project Number	:T190829W02	Test Date	:2019-08-30
Operation Band	:BLE 1M	Temp./Humi.	:25.5/51
Fundamental Frequency	:2480 MHz	Engineer	:Kailin
Operation Mode	:Tx CH High	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plan		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4960.00	Average	21.11	3.85	24.96	54.00	-29.04
4960.00	Peak	37.18	3.85	41.03	74.00	-32.97

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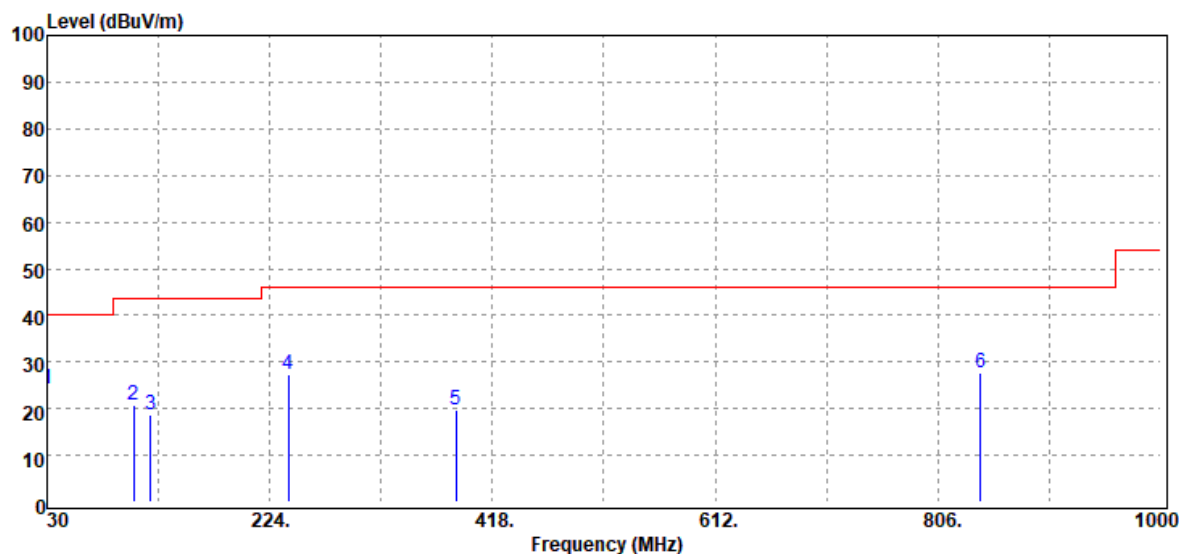
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Test Mode: BLE (2M)

Project Number :T190829W02
Operation Band :BLE 2M
Fundamental Frequency :2402 MHz
Operation Mode :Tx CH Low
EUT Pol. :E2 Plan

Test Date :2019-08-30
Temp./Humi. :25.5/51
Engineer :Kailin
Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
30.00	Peak	25.83	-1.51	24.32	40.00	-15.68
105.66	Peak	31.62	-11.02	20.60	43.50	-22.90
120.21	Peak	27.71	-8.88	18.83	43.50	-24.67
240.49	Peak	37.55	-10.25	27.30	46.00	-18.70
385.99	Peak	25.95	-6.20	19.75	46.00	-26.25
842.86	Peak	24.40	3.35	27.75	46.00	-18.25

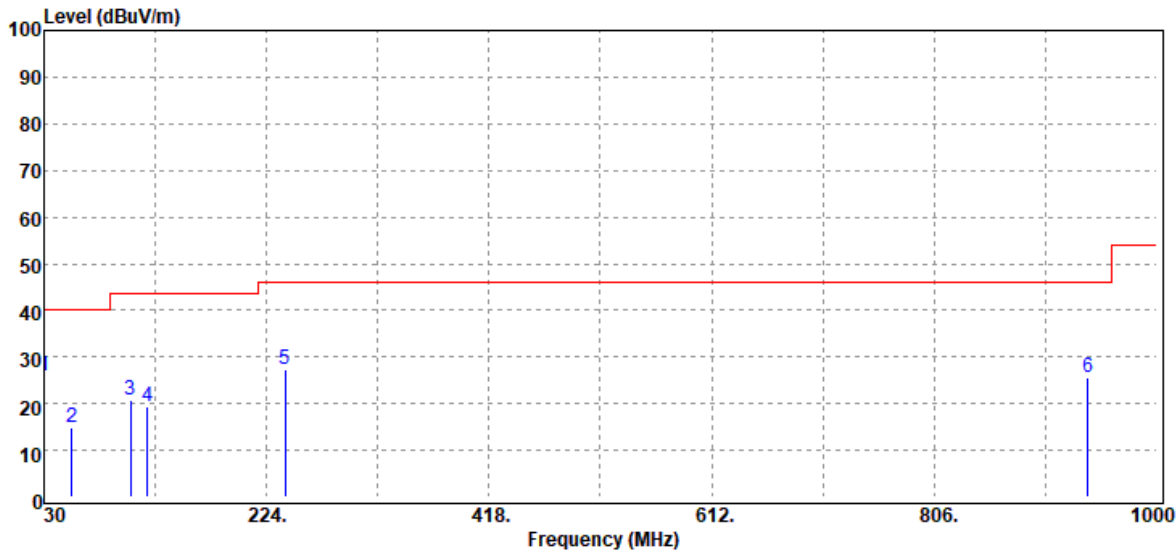
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Project Number :T190829W02
Operation Band :BLE 2M
Fundamental Frequency :2402 MHz
Operation Mode :Tx CH Low
EUT Pol. :E2 Plan

Test Date :2019-08-30
Temp./Humi. :25.5/51
Engineer :Kailin
Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
30.00	Peak	27.63	-1.51	26.12	40.00	-13.88
54.25	Peak	30.73	-15.95	14.78	40.00	-25.22
105.66	Peak	31.77	-11.02	20.75	43.50	-22.75
120.21	Peak	28.15	-8.88	19.27	43.50	-24.23
240.49	Peak	37.56	-10.25	27.31	46.00	-18.69
939.86	Peak	21.95	3.73	25.68	46.00	-20.32

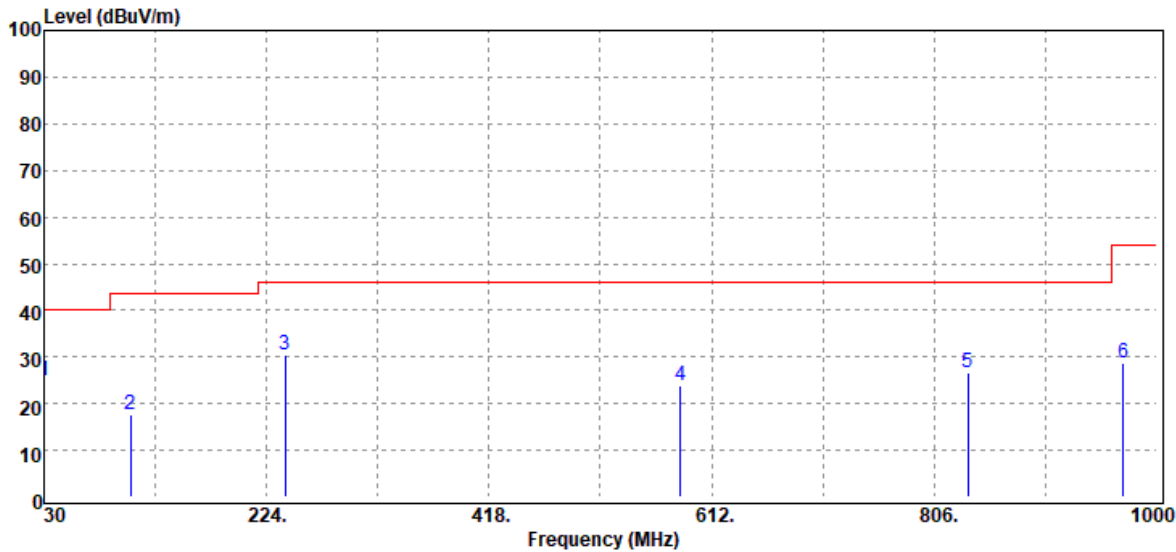
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Project Number :T190829W02
 Operation Band :BLE 2M
 Fundamental Frequency :2442 MHz
 Operation Mode :Tx CH Mid
 EUT Pol. :E2 Plan

Test Date :2019-08-30
 Temp./Humi. :25.5/51
 Engineer :Kailin
 Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
30.00	Peak	26.30	-1.51	24.79	40.00	-15.21
105.66	Peak	28.54	-11.02	17.52	43.50	-25.98
240.49	Peak	40.58	-10.25	30.33	46.00	-15.67
584.84	Peak	25.63	-1.86	23.77	46.00	-22.23
835.10	Peak	23.29	3.46	26.75	46.00	-19.25
970.90	Peak	23.48	5.37	28.85	54.00	-25.15

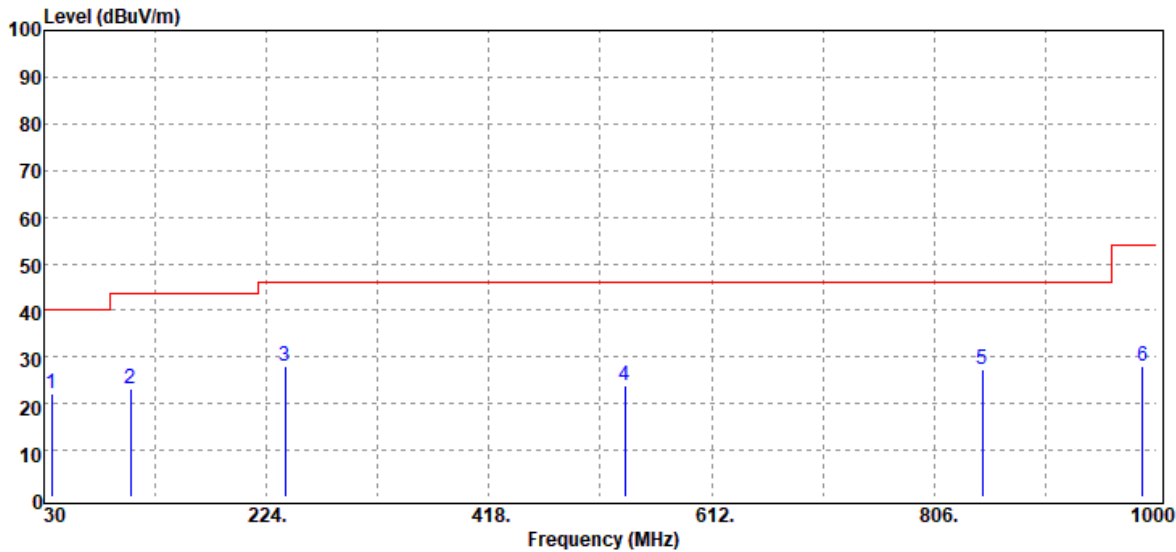
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Project Number :T190829W02
Operation Band :BLE 2M
Fundamental Frequency :2442 MHz
Operation Mode :Tx CH Mid
EUT Pol. :E2 Plan

Test Date :2019-08-30
Temp./Humi. :25.5/51
Engineer :Kailin
Measurement Antenna Pol. :HORIZONTAL



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	29.06	-7.08	21.98	40.00	-18.02
105.66	Peak	34.10	-11.02	23.08	43.50	-20.42
240.49	Peak	38.36	-10.25	28.11	46.00	-17.89
536.34	Peak	25.99	-2.18	23.81	46.00	-22.19
847.71	Peak	24.17	3.15	27.32	46.00	-18.68
987.39	Peak	22.47	5.46	27.93	54.00	-26.07

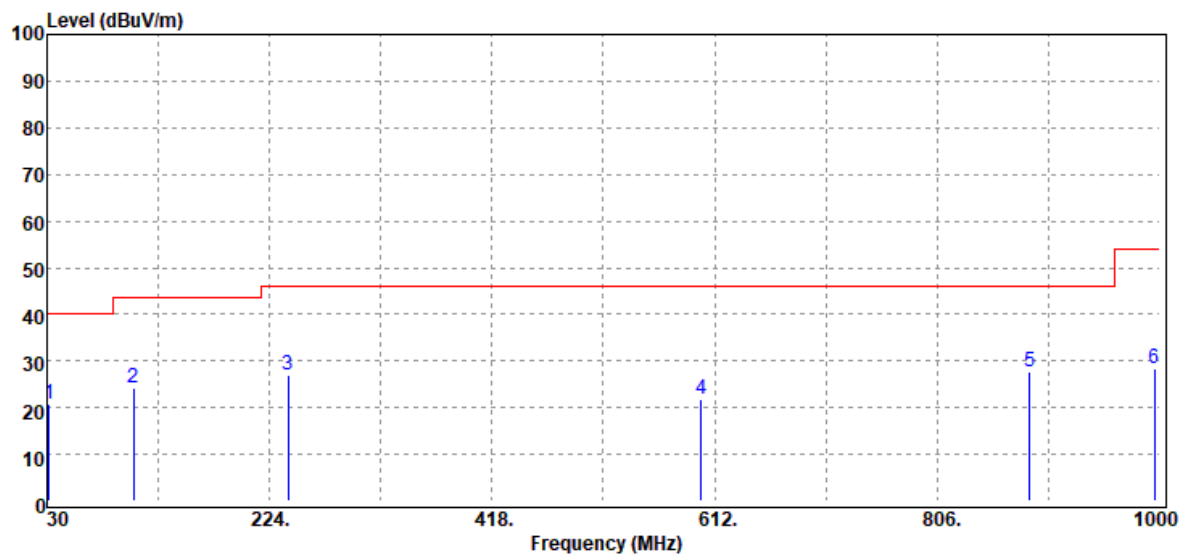
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Project Number :T190829W02
 Operation Band :BLE 2M
 Fundamental Frequency :2480 MHz
 Operation Mode :Tx CH High
 EUT Pol. :E2 Plan

Test Date :2019-08-30
 Temp./Humi. :25.5/51
 Engineer :Kailin
 Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
31.94	Peak	24.30	-3.40	20.90	40.00	-19.10
105.66	Peak	35.41	-11.02	24.39	43.50	-19.11
240.49	Peak	37.34	-10.25	27.09	46.00	-18.91
600.36	Peak	23.51	-1.65	21.86	46.00	-24.14
886.51	Peak	24.02	3.81	27.83	46.00	-18.17
995.15	Peak	23.11	5.17	28.28	54.00	-25.72

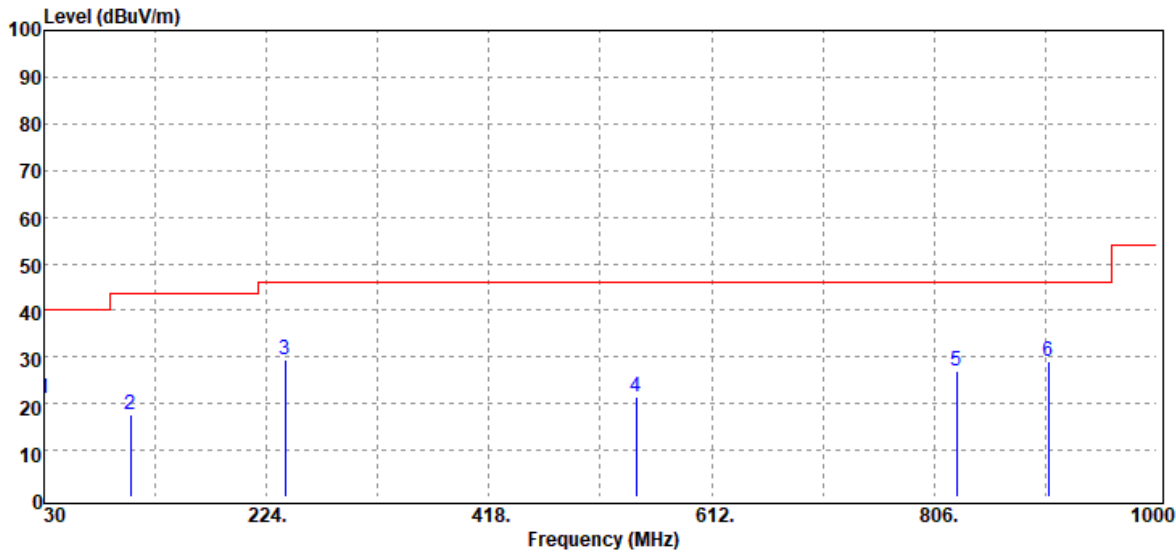
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Project Number :T190829W02
Operation Band :BLE 2M
Fundamental Frequency :2480 MHz
Operation Mode :Tx CH High
EUT Pol. :E2 Plan

Test Date :2019-08-30
Temp./Humi. :25.5/51
Engineer :Kailin
Measurement Antenna Pol. :HORIZONTAL



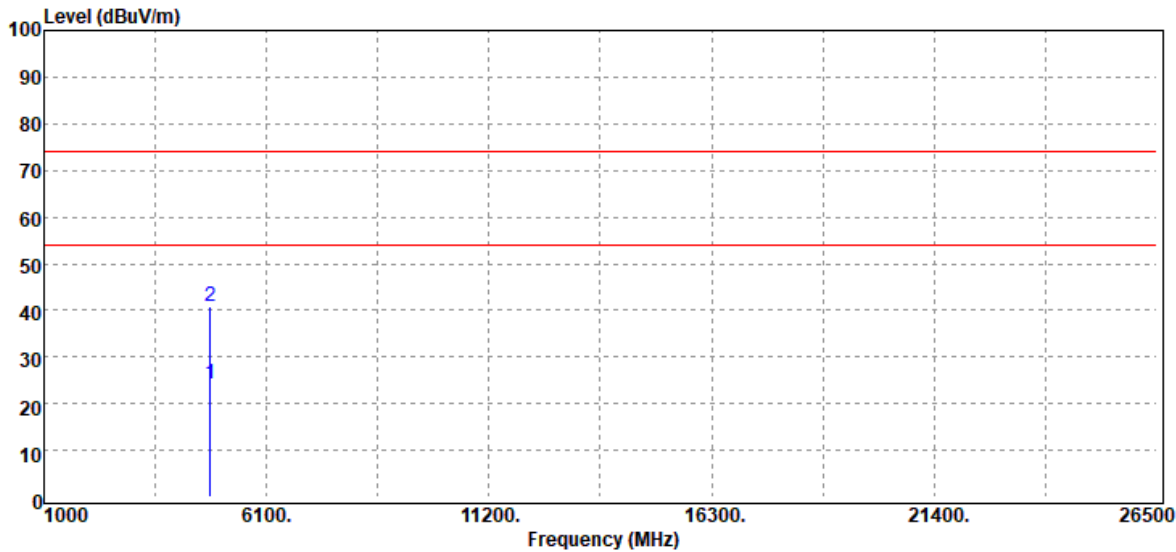
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
30.00	Peak	22.55	-1.51	21.04	40.00	-18.96
105.66	Peak	28.64	-11.02	17.62	43.50	-25.88
240.49	Peak	39.79	-10.25	29.54	46.00	-16.46
546.04	Peak	23.45	-2.16	21.29	46.00	-24.71
825.40	Peak	23.89	3.18	27.07	46.00	-18.93
905.91	Peak	24.94	4.12	29.06	46.00	-16.94

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Project Number	:T190829W02	Test Date	:2019-08-30
Operation Band	:BLE 2M	Temp./Humi.	:25.5/51
Fundamental Frequency	:2402 MHz	Engineer	:Kailin
Operation Mode	:Tx CH Low	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plan		



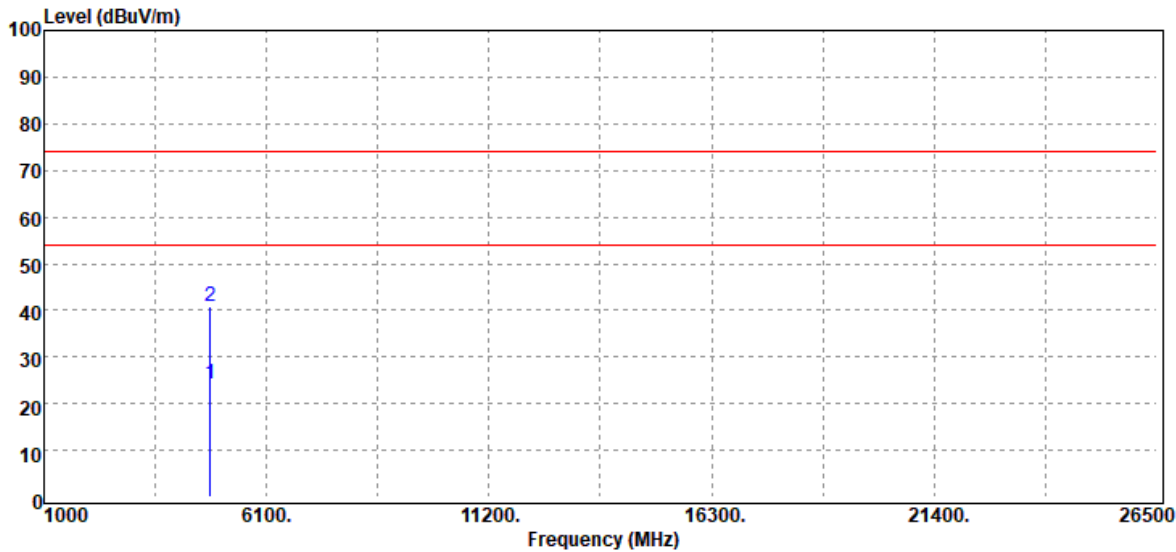
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4804.00	Average	21.24	2.84	24.08	54.00	-29.92
4804.00	Peak	37.88	2.84	40.72	74.00	-33.28

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Project Number	:T190829W02	Test Date	:2019-08-30
Operation Band	:BLE 2M	Temp./Humi.	:25.5/51
Fundamental Frequency	:2402 MHz	Engineer	:Kailin
Operation Mode	:Tx CH Low	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plan		



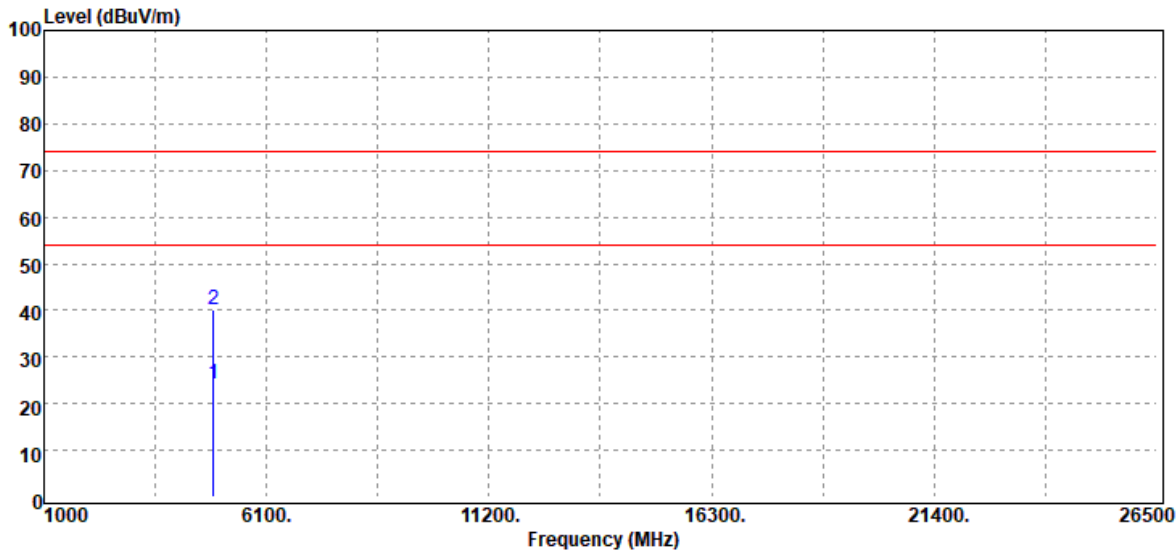
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4804.00	Average	21.25	2.84	24.09	54.00	-29.91
4804.00	Peak	37.99	2.84	40.83	74.00	-33.17

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Project Number	:T190829W02	Test Date	:2019-08-30
Operation Band	:BLE 2M	Temp./Humi.	:25.5/51
Fundamental Frequency	:2442 MHz	Engineer	:Kailin
Operation Mode	:Tx CH Mid	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plan		



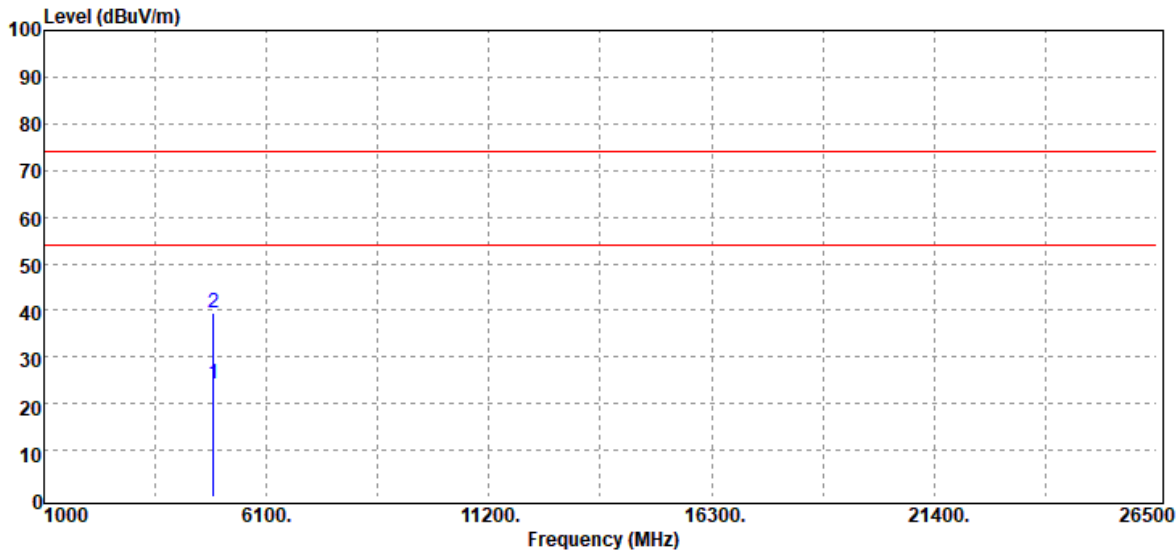
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4884.00	Average	21.08	3.05	24.13	54.00	-29.87
4884.00	Peak	36.97	3.05	40.02	74.00	-33.98

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Project Number	:T190829W02	Test Date	:2019-08-30
Operation Band	:BLE 2M	Temp./Humi.	:25.5/51
Fundamental Frequency	:2442 MHz	Engineer	:Kailin
Operation Mode	:Tx CH Mid	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plan		



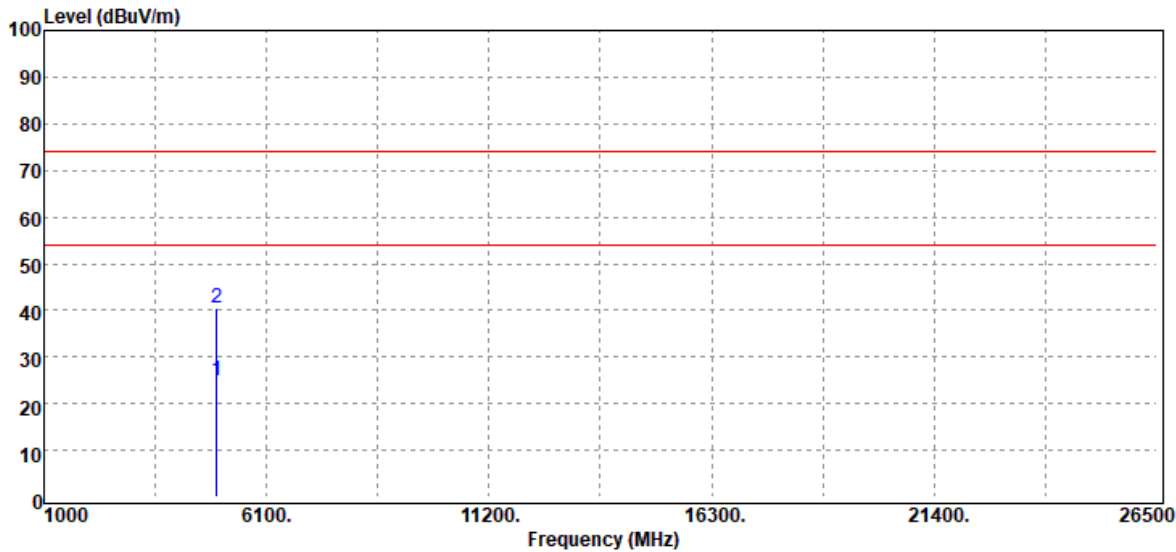
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4884.00	Average	21.24	3.05	24.29	54.00	-29.71
4884.00	Peak	36.48	3.05	39.53	74.00	-34.47

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Project Number	:T190829W02	Test Date	:2019-08-30
Operation Band	:BLE 2M	Temp./Humi.	:25.5/51
Fundamental Frequency	:2480 MHz	Engineer	:Kailin
Operation Mode	:Tx CH High	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plan		



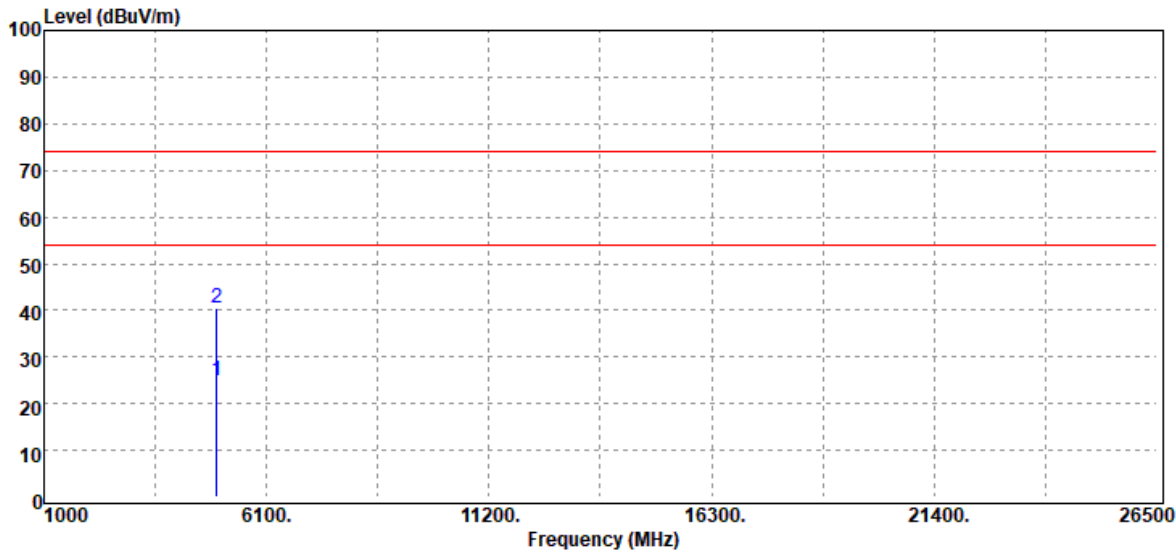
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4960.00	Average	21.15	3.85	25.00	54.00	-29.00
4960.00	Peak	36.73	3.85	40.58	74.00	-33.42

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Project Number	:T190829W02	Test Date	:2019-08-30
Operation Band	:BLE 2M	Temp./Humi.	:25.5/51
Fundamental Frequency	:2480 MHz	Engineer	:Kailin
Operation Mode	:Tx CH High	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plan		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4960.00	Average	21.02	3.85	24.87	54.00	-29.13
4960.00	Peak	36.56	3.85	40.41	74.00	-33.59

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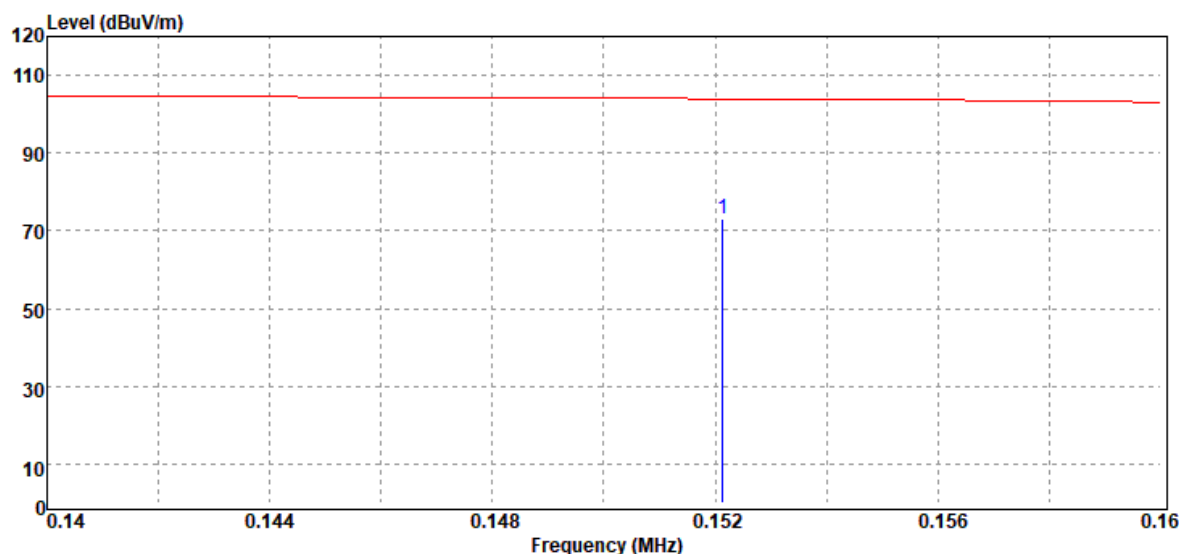
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Test Mode: WPC

Below 30 MHz

Project Number :T190829W02
Operation Band :WPC
Fundamental Frequency :156 KHz
Operation Mode :Main
EUT Pol. :E2 Plan

Test Date :2019-09-05
Temp./Humi. :25.1/52
Engineer :Kailin
Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
0.15	Peak	60.28	13.69	73.97	103.96	-29.99

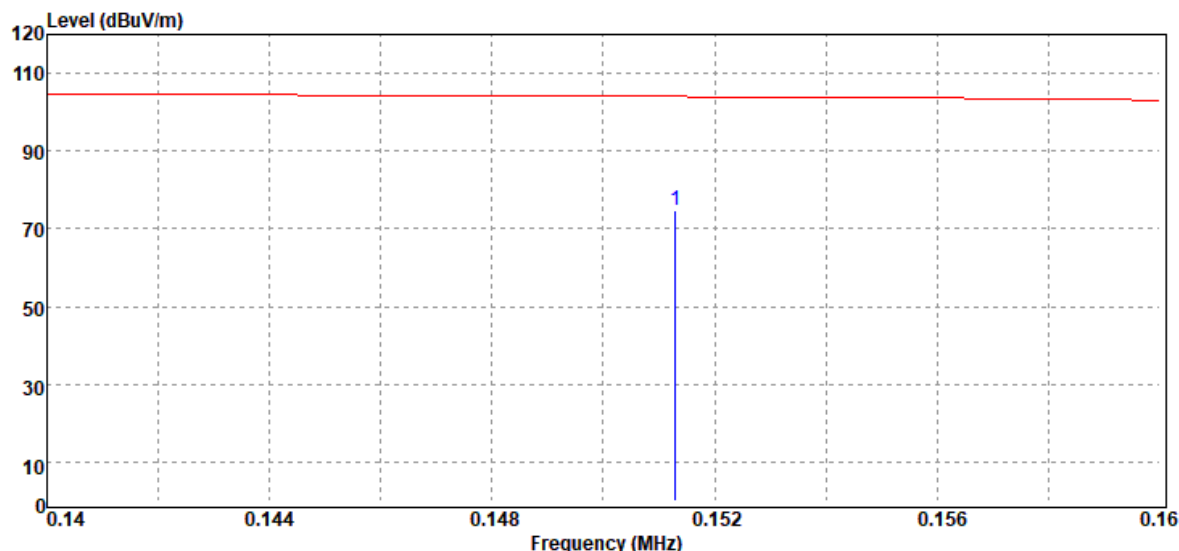
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Project Number :T190829W02
Operation Band :WPC
Fundamental Frequency :156 KHz
Operation Mode :Main
EUT Pol. :E2 Plan

Test Date :2019-09-04
Temp./Humi. :25.1/52
Engineer :Kailin
Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
0.15	Peak	62.98	13.68	76.66	104.01	-27.35

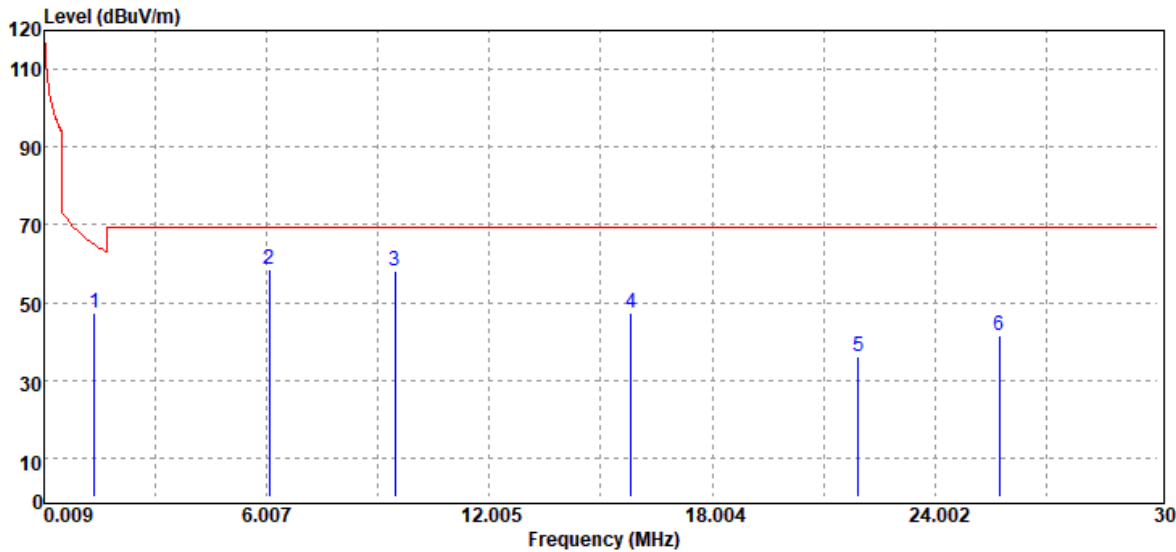
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Project Number :T190829W02
Operation Band :WPC
Fundamental Frequency :156 KHz
Operation Mode :Tx
EUT Pol. :E2 Plan

Test Date :2019-08-30
Temp./Humi. :25.1/52
Engineer :Kailin
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
1.36	Peak	32.47	14.80	47.27	64.94	-17.67
6.07	Peak	43.02	15.58	58.60	69.54	-10.94
9.46	Peak	42.22	16.10	58.32	69.54	-11.22
15.81	Peak	31.60	15.78	47.38	69.54	-22.16
21.93	Peak	21.12	15.15	36.27	69.54	-33.27
25.74	Peak	27.31	14.41	41.72	69.54	-27.82

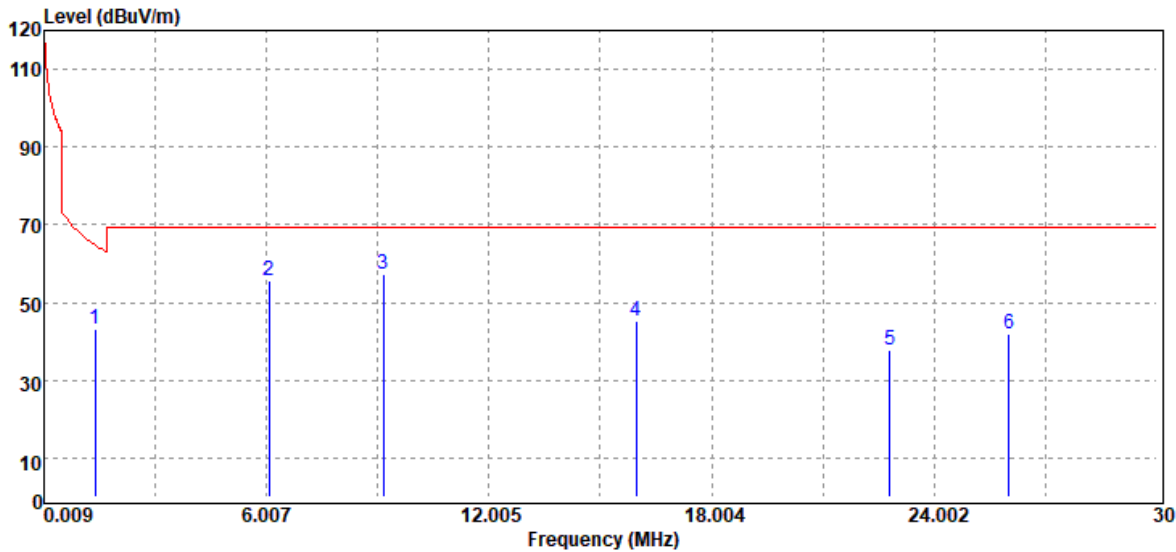
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Project Number :T190829W02
Operation Band :WPC
Fundamental Frequency :156 KHz
Operation Mode :Tx
EUT Pol. :E2 Plan

Test Date :2019-08-30
Temp./Humi. :25.1/52
Engineer :Kailin
Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
1.39	Peak	28.45	14.80	43.25	64.75	-21.50
6.07	Peak	40.12	15.58	55.70	69.54	-13.84
9.16	Peak	41.44	16.06	57.50	69.54	-12.04
15.96	Peak	29.60	15.77	45.37	69.54	-24.17
22.80	Peak	23.03	14.96	37.99	69.54	-31.55
26.01	Peak	27.58	14.35	41.93	69.54	-27.61

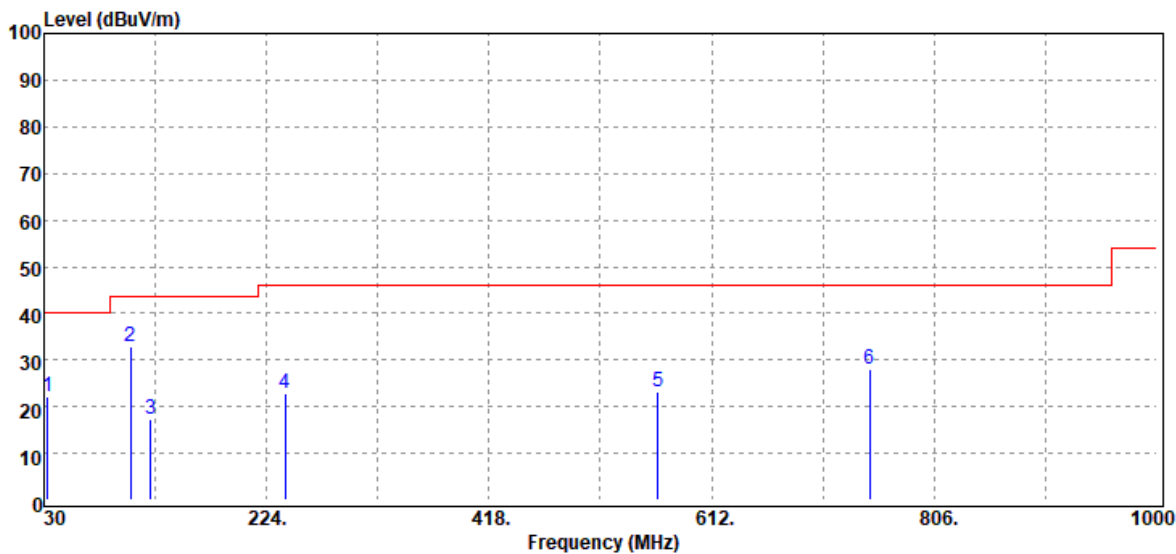
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Above 30MHz

Project Number	:T190829W02	Test Date	:2019-08-30
Operation Band	:WPC	Temp./Humi.	:25.1/52
Fundamental Frequency	:156 KHz	Engineer	:Kailin
Operation Mode	:Tx	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plan		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
32.91	Peak	26.56	-4.28	22.28	40.00	-17.72
105.66	Peak	44.05	-11.02	33.03	43.50	-10.47
123.12	Peak	26.23	-8.78	17.45	43.50	-26.05
240.49	Peak	33.25	-10.25	23.00	46.00	-23.00
565.44	Peak	25.20	-2.09	23.11	46.00	-22.89
749.74	Peak	25.98	2.12	28.10	46.00	-17.90

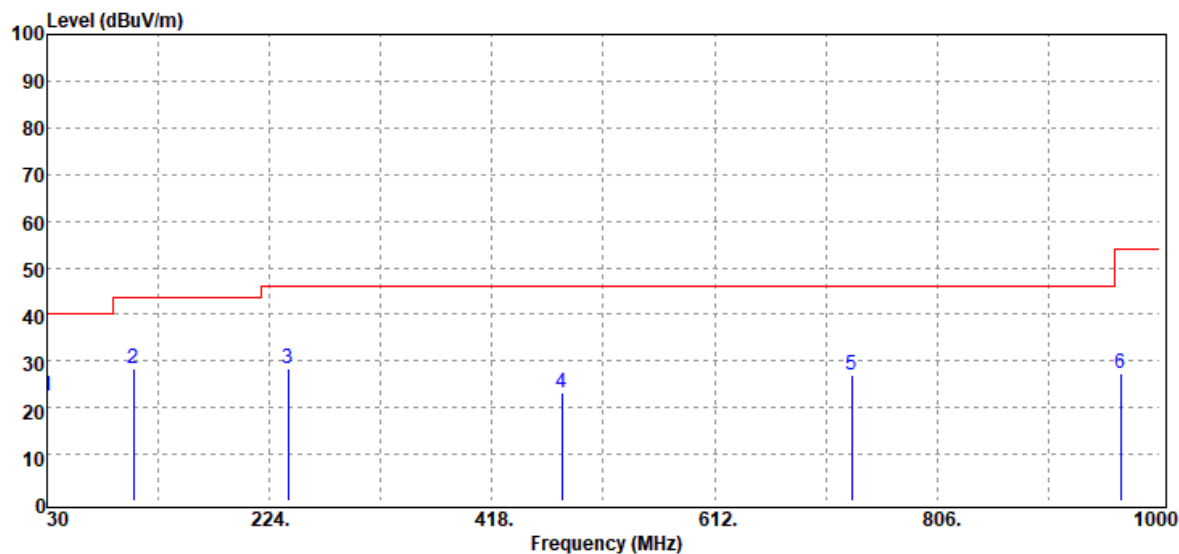
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Project Number :T190829W02
 Operation Band :WPC
 Fundamental Frequency :156 KHz
 Operation Mode :Tx
 EUT Pol. :E2 Plan

Test Date :2019-08-30
 Temp./Humi. :25.1/52
 Engineer :Kailin
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
30.00	Peak	24.04	-1.51	22.53	40.00	-17.47
105.66	Peak	39.39	-11.02	28.37	43.50	-15.13
240.49	Peak	38.60	-10.25	28.35	46.00	-17.65
479.11	Peak	26.13	-2.98	23.15	46.00	-22.85
731.31	Peak	25.73	1.16	26.89	46.00	-19.11
966.05	Peak	22.29	5.08	27.37	54.00	-26.63

~ End of Report ~

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