

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Applicant: silex technology, Inc.
2-3-1 Hikaridai, Seika-cho, Souraku-gun, Kyoto 619-0237, Japan

Product Name: SX-SDMAC2

Brand Name: silex technology, Inc.

Marketing Name: Wireless Embedded Module

Model No.: SX-SDMAC2

Model Difference: N/A

Report Number: T190321W03-RP2

FCC ID: N6C-SDMAC2

FCC Rule Part: §15.247, Cat: DSS

Issue Date: Jun. 19, 2019

Date of Test: Mar. 21, 2019 ~ Jun. 11, 2019

Date of EUT Received: Mar. 21, 2019

Issued by: Compliance Certification Services Inc. Wugu Lab.
No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan.
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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 re-port. The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc. (Wugu Laboratory).

Tested By: 
Jerry Lu / Sr. Engineer

Approved By: 
Kevin Tsai / Deputy Manager



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Revision History

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
T190321W03-RP2	Rev.00	Initial creation of document	All	Jun. 19, 2019	Violetta Tang

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	SX-SDMAC2
Brand Name:	silex technology, Inc.
Marketing Name:	Wireless Embedded Module
Model No.:	SX-SDMAC2
Model Difference:	N/A
Hardware Version:	N/A
Software Version:	N/A
Power Supply:	3.3Vdc

Radio Technology:	Bluetooth BR+EDR
Channel number:	79 channels
Modulation type:	GFSK + $\pi/4$ DQPSK + 8DPSK
Transmit Power:	6.14dBm
Frequency Range:	2.402GHz – 2.480GHz
Dwell Time:	$\leq 0.4s$

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1.2 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Worst Antenna Gain
PCB	Unictron	H2B1PC1A1C (AA258)	2.4GHz	2.9	
PCB	Unictron	H2B1PD1A1C (AA222)	2.4GHz	2.8	
PCB	molex	146153	2.4GHz	3.25	V
Dipole	Sansei Denki	ANTDC-081A0/B0	2.4GHz	2	
Dipole	Sansei Denki	ANTDP-027A0	2.4GHz	0.8	
Dipole	Sansei Denki	ANTDP-039A0	2.4GHz	0.8	
Dipole	JOYMAX	IWF-145XMPXX	2.4GHz	4	V

Note: Pre-scanned was done on the above 7 antennas, the PCB (146153) & the Dipole (IWF-145XMPXX) results higher emission at 2.4GHz. Therefore, the completed set of measurement was done on both antennas to be presented on this test report.

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1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 15.247 Meas. Guidance v05r02

ANSI C63.10:2013

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

1.4 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

1.5 Special Accessories

There is no special accessory used while test was conducted.

1.6 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 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.

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission

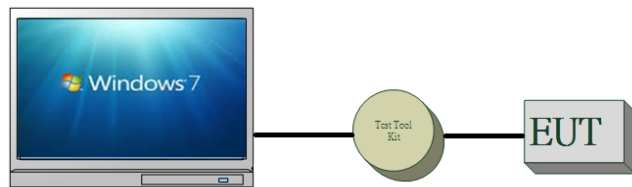


Fig. 2-2 Conducted (Antenna Port) Configuration

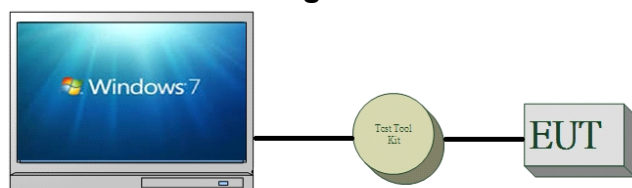


Fig 2-3 Conduction (AC Power Line) Emission

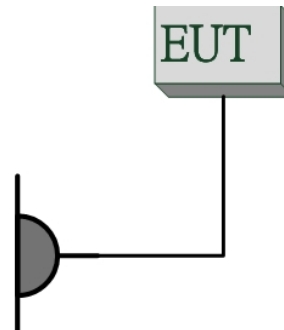


Table 2-1 Equipment Used in Tested System

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
2.	Notebook	N/A	N/A	N/A	N/A	N/A
3.	Test Tool Kit	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
§15.207(a)	AC Power Line Conducted Emission	Compliant
§15.247(b)(1)	Peak Output Power	Compliant
§15.247(a)(1)	20dB Bandwidth	Compliant
§15.205 §15.209 §15.247(d)	Conducted Band Edge and Spurious Emission	Compliant
§15.205 §15.209 §15.247(d)	Radiated Band Edge and Spurious Emission	Compliant
§15.247(a)(1)	Frequency Separation	Compliant
§15.247(a)(1)(iii)	Number of hopping frequency	Compliant
§15.247(a)(1)(iii)	Time of Occupancy	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

79 channels are provided for Bluetooth

ITEM	FREQUENCY	ITEM	FREQUENCY	ITEM	FREQUENCY	ITEM	FREQUENCY
1	2402 MHz	21	2422 MHz	41	2442 MHz	71	2462 MHz
2	2403 MHz	22	2423 MHz	42	2443 MHz	72	2463 MHz
3	2404 MHz	23	2424 MHz	43	2444 MHz	73	2464 MHz
4	2405 MHz	24	2425 MHz	44	2445 MHz	74	2465 MHz
5	2406 MHz	25	2426 MHz	45	2446 MHz	75	2466 MHz
6	2407 MHz	26	2427 MHz	46	2447 MHz	76	2467 MHz
7	2408 MHz	27	2428 MHz	47	2448 MHz	77	2468 MHz
8	2409 MHz	28	2429 MHz	48	2449 MHz	78	2469 MHz
9	2410 MHz	29	2430 MHz	49	2450 MHz	79	2470 MHz
10	2411 MHz	30	2431 MHz	50	2451 MHz	70	2471 MHz
11	2412 MHz	31	2432 MHz	51	2452 MHz	71	2472 MHz
12	2413 MHz	32	2433 MHz	52	2453 MHz	72	2473 MHz
13	2414 MHz	33	2434 MHz	53	2454 MHz	73	2474 MHz
14	2415 MHz	34	2435 MHz	54	2455 MHz	74	2475 MHz
15	2416 MHz	35	2436 MHz	55	2456 MHz	75	2476 MHz
16	2417 MHz	36	2437 MHz	56	2457 MHz	76	2477 MHz
17	2418 MHz	37	2438 MHz	57	2458 MHz	77	2478 MHz
18	2419 MHz	38	2439 MHz	58	2459 MHz	78	2479 MHz
19	2420 MHz	39	2440 MHz	59	2460 MHz	79	2480 MHz
20	2421 MHz	40	2441 MHz	60	2461 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.

AC POWER LINE CONDUCTED EMISSION TEST:

Test Condition	AC Power line conducted emission for line and neutral
Worst Case	Operation in normal mode

RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)				
MODE	AVAILABLE FREQUENCY (MHz)	TESTED FREQUENCY (MHz)	MODULATION	PACKET TYPE
Bluetooth	2402 to 2480	2441	8-DPSK	DH5
RADIATED EMISSION TEST (ABOVE 1 GHz)				
Bluetooth	2402 to 2480	2402, 2441, 2480	8-DPSK	DH5

Note:

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

ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST				
Peak Output Power, 20dB Band Width				
MODE	AVAILABLE FREQUENCY (MHz)	TESTED FREQUENCY (MHz)	MODULATION	PACKET TYPE
Bluetooth	2402 to 2480	2402, 2441, 2480	GFSK, $\pi/4$ -DQPSK, 8-DPSK	DH5
Band Edge				
Bluetooth	2402 to 2480	2402, 2441, 2480	GFSK, 8-DPSK	DH5
Frequency Separation				
Bluetooth	2402 to 2480	2402, 2441, 2480	GFSK	DH5
Number of hopping frequency				
Bluetooth	2402 to 2480	2402, 2441, 2480	GFSK	DH5
Time of Occupancy (Dwell time)				
Bluetooth	2402 to 2480	2402, 2441, 2480	GFSK, $\pi/4$ -DQPSK, 8-DPSK	DH1/DH3/DH5

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5 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	+/- 1.2575 dB
Peak Output Power	+/- 2.128 dB
20dB Bandwidth	+/- 147.256 Hz
100 kHz Bandwidth of Frequency Band Edges	+/- 2.128 dB
Frequency Separation	+/- 147.256 Hz
Number of hopping frequency	+/- 147.256 Hz
Time of Occupancy	+/- 147.256 Hz
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. ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report.
3. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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6 CONDUCTED EMISSION TEST

6.1 Standard Applicable

Frequency within 150 kHz to 30MHz shall not exceed the limit table as below.

Frequency range MHz	Limits dB(uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

6.2 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
CABLE	EMCI	CFD300-NL	CERF	06/29/2018	06/28/2019
EMI Test Receiver	R&S	ESCI	100064	07/24/2018	07/23/2019
LISN	SCHWARZBECK	NSLK 8127	8127-541	01/31/2019	01/30/2020
LISN	SCHAFFNER	NNB 41	03/10013	02/13/2019	02/12/2020
Software	EZ-EMC(CCS-3A1-CE)				

6.3 EUT Setup

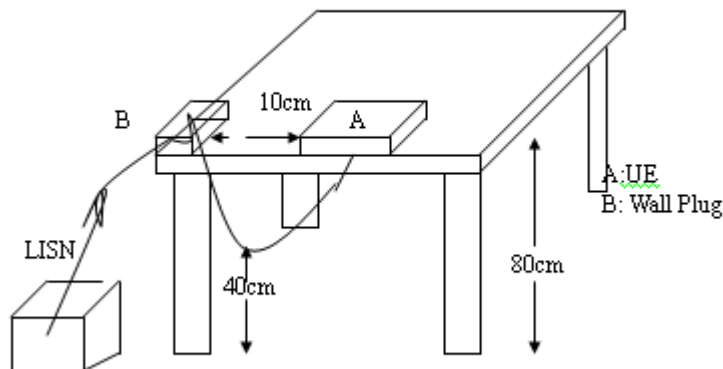
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI 63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

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6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plan.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

6.6 Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closet to the limit.

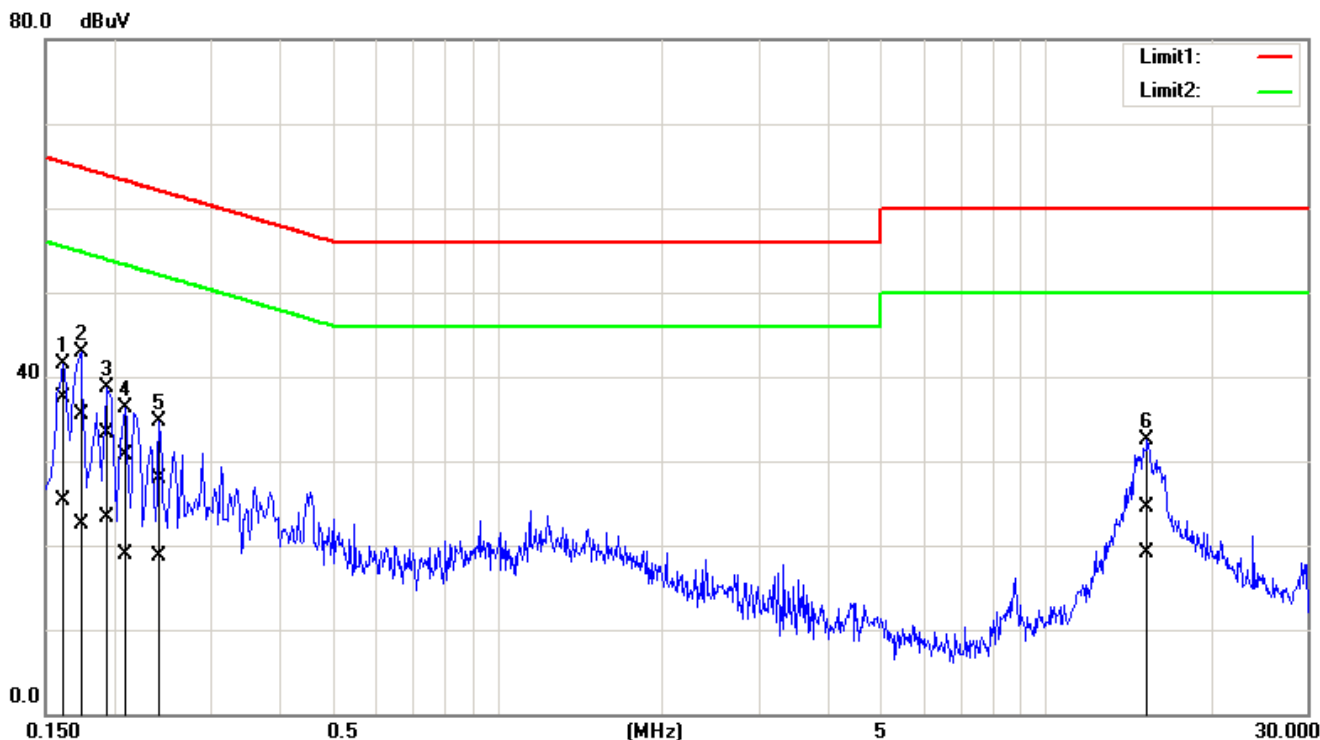
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Description:	Operation	Date:	2019/5/24
Line:	L1	Temp.(°C)/Hum.(%):	23.8(°C)/59%
Test Voltage:	AC 120V/60Hz	Test By:	Peter



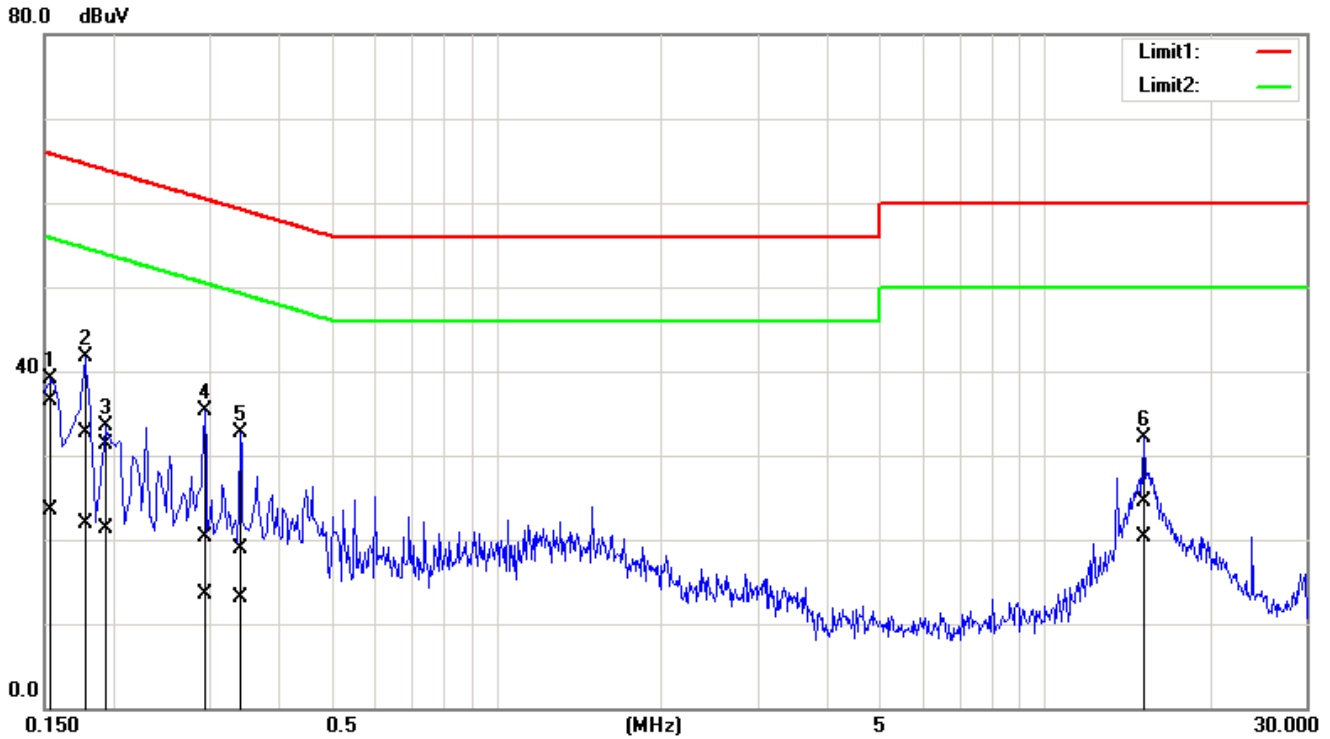
No.	Fre- quency	Qua- siPeak reading	Average reading	Cor- rection factor	Qua- siPeak result	Average result	Qua- siPeak limit	Average limit	Qua- siPeak margin	Aver- age margin	Re- mark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1*	0.1620	37.34	25.06	0.16	37.50	25.22	65.36	55.36	-27.86	-30.14	Pass
2	0.1740	35.42	22.30	0.16	35.58	22.46	64.76	54.77	-29.18	-32.31	Pass
3	0.1940	33.10	23.10	0.15	33.25	23.25	63.86	53.86	-30.61	-30.61	Pass
4	0.2100	30.62	18.80	0.15	30.77	18.95	63.20	53.21	-32.43	-34.26	Pass
5	0.2420	27.74	18.51	0.15	27.89	18.66	62.02	52.03	-34.13	-33.37	Pass
6	15.3460	24.01	18.55	0.59	24.60	19.14	60.00	50.00	-35.40	-30.86	Pass

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Description:	Operation	Date:	2019/5/24
Line:	N	Temp.(°C)/Hum.(%):	23.8(°C)/59%
Test Voltage:	AC 120V/60Hz	Test By:	Peter



No.	Fre- quency	Qua- siPeak reading	Average reading	Cor- rection factor	Qua- siPeak result	Average result	Qua- siPeak limit	Average limit	Qua- siPeak margin	Aver- age margin	Re- mark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1*	0.1539	36.32	23.38	0.10	36.42	23.48	65.78	55.79	-29.36	-32.31	Pass
2	0.1780	32.60	21.78	0.10	32.70	21.88	64.57	54.58	-31.87	-32.70	Pass
3	0.1940	31.28	21.13	0.10	31.38	21.23	63.86	53.86	-32.48	-32.63	Pass
4	0.2940	20.11	13.45	0.10	20.21	13.55	60.41	50.41	-40.20	-36.86	Pass
5	0.3420	18.71	13.02	0.11	18.82	13.13	59.15	49.15	-40.33	-36.02	Pass
6	15.1460	23.98	19.83	0.47	24.45	20.30	60.00	50.00	-35.55	-29.70	Pass

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7 PEAK OUTPUT POWER MEASUREMENT

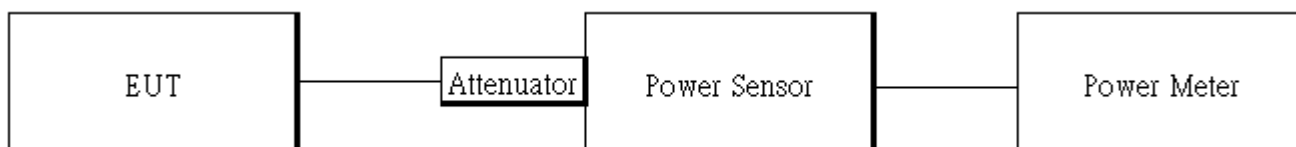
7.1 Standard Applicable

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 hopping channels, The Limit: 1Watt. For all other frequency hopping systems in the 2400 – 2483.5MHz band: The Limit: 0.125 Watts. The power limit for 1Mbps is 1watt, and 2Mbps, 3Mbps and AFH mode are 0.125 watts.

7.2 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1242004	10/23/2018	10/22/2019
Power Sensor	Anritsu	MA2411B	1207365	10/23/2018	10/22/2019
Power Sensor	Anritsu	MA2411B	1207368	10/24/2018	10/23/2019
Attenuator	Mini-Circuit	BW-S10W2+	3	02/26/2019	02/25/2020

7.3 Test Set-up:



7.4 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10 Measurement Guidelines.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter or spectrum. (Max Hold, Detector = Peak, RBW >=20dB bandwidth)
4. Record the max. reading.
5. Repeat above procedures until all default test channel is completed.

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7.5 Measurement Result

1M BR mode (Peak):

CH	Freq. (MHz)	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	2.38	1.730	1000
Mid	2441	3.33	2.153	1000
High	2480	4.38	2.742	1000

1M BR mode (Average):

CH	Freq. (MHz)	Max. Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	2.01	1.587	1000
Mid	2441	2.98	1.984	1000
High	2480	4.00	2.510	1000

2M EDR mode (Peak):

CH	Freq. (MHz)	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	4.24	2.655	125
Mid	2441	5.08	3.221	125
High	2480	5.99	3.972	125

2M EDR mode (Average):

CH	Freq. (MHz)	Max. Avg. Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	1.77	1.504	125
Mid	2441	2.76	1.890	125
High	2480	3.83	2.418	125

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3M EDR mode (Peak):

CH	Freq. (MHz)	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	4.49	2.812	125
Mid	2441	5.34	3.420	125
High	2480	6.14	4.111	125

NOTE: cable loss as 1dB that offsets in the spectrum

3M EDR mode (Average):

CH	Freq. (MHz)	Max. Avg. Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	1.80	1.515	125
Mid	2441	2.76	1.890	125
High	2480	3.83	2.418	125

*Note: Max. Output include tune up tolerance
Power measured by using average detector.

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8 20DB BANDWIDTH MEASUREMENT

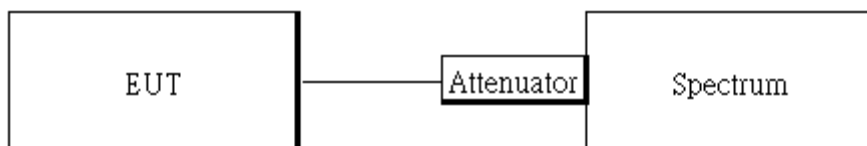
8.1 Standard Applicable

For frequency hopping systems operating in the 2400 MHz-2483.5 MHz no limit for 20dB bandwidth.

8.2 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/22/2019	04/21/2020
DC Block	Mini-Circuits	BLK-18-S+	31129(1)	02/26/2019	02/25/2020
Attenuator	Mini-Circuit	BW-S10W2+	3	02/26/2019	02/25/2020

8.3 Test Set-up



8.4 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10:2013.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set the spectrum analyzer as RBW=10 kHz (1 % of 20 dB Bandwidth.), VBW = 30 kHz, Span= 3MHz, Sweep=auto, Detector = Peak, and Max hold for 20dB Bandwidth test.
5. Mark the peak frequency and -20dB (upper and lower) frequency
6. Repeat above procedures until all test default channel is completed

NOTE:

For the plot of bandwidth measurement, the marker of the 20dB BW is arrow-mark

8.5 Measurement Result

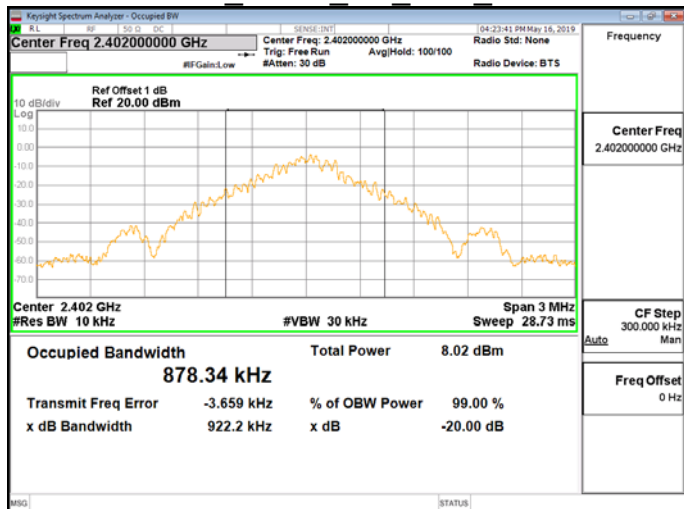
GFSK			$\pi/4$ -DQPSK			8-DPSK		
CH	20 dB BW (MHz)	2/3 BW (MHz)	CH	20 dB BW (MHz)	2/3 BW (MHz)	CH	20 dB BW (MHz)	2/3 BW (MHz)
Low	0.922	0.61	Low	1.259	0.84	Low	1.262	0.84
Mid	0.922	0.61	Mid	1.258	0.84	Mid	1.259	0.84
High	0.922	0.61	High	1.276	0.85	High	1.264	0.84

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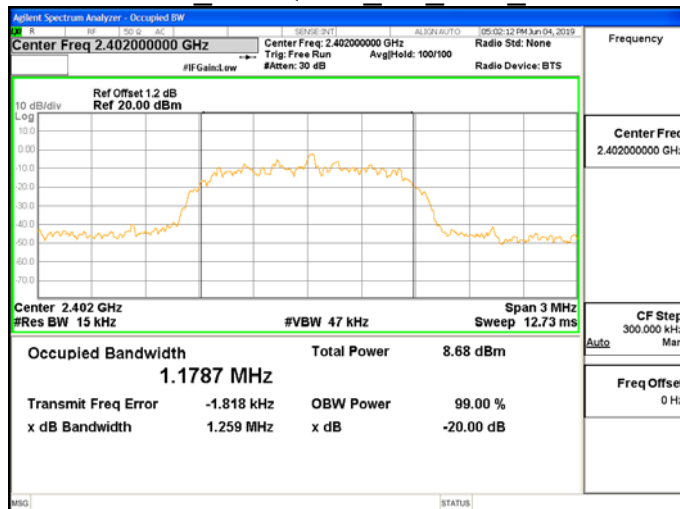
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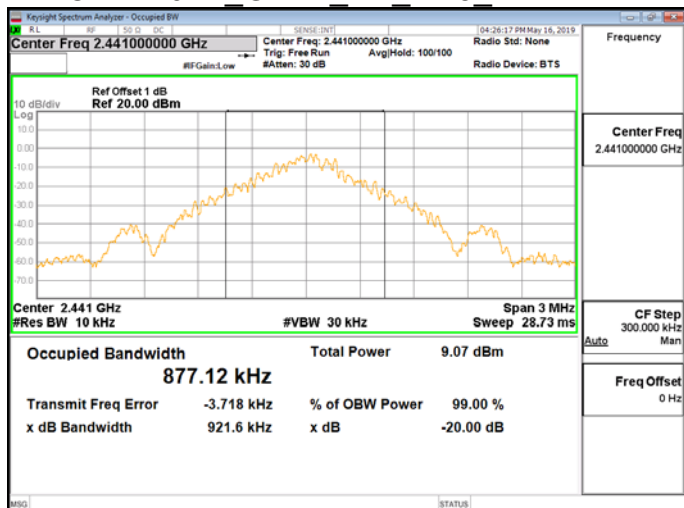
OBW 20dB GFSK 1M DH5 2402MHz



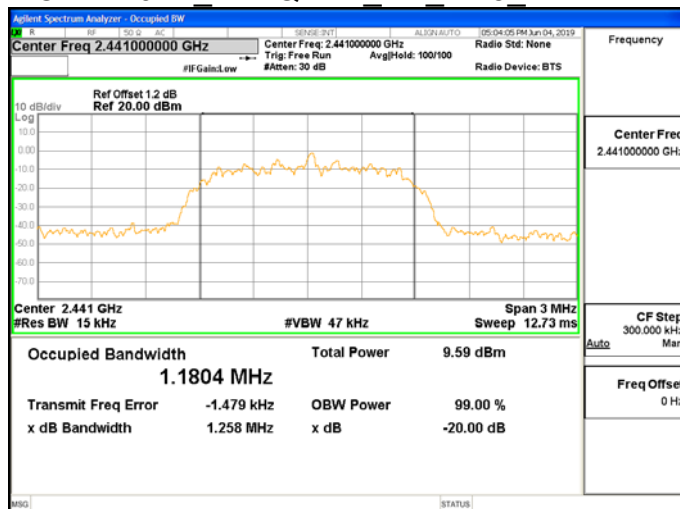
OBW 20dB π 4DQPSK 2M DH5 2402MHz



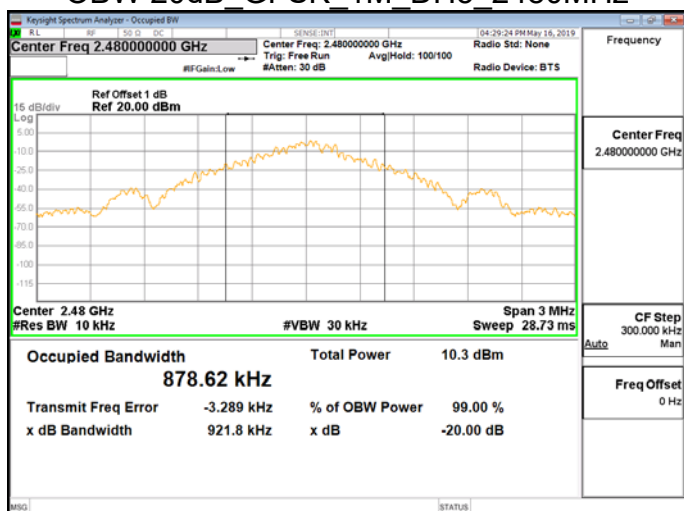
OBW 20dB GFSK 1M DH5 2441MHz



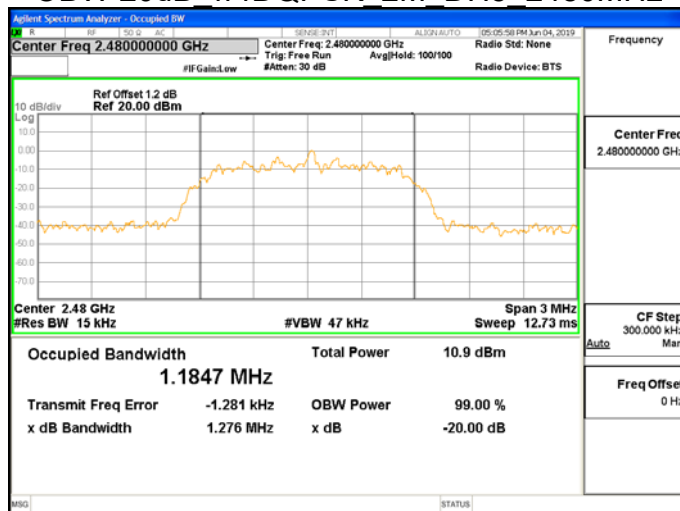
OBW 20dB π 4DQPSK 2M DH5 2441MHz



OBW 20dB GFSK 1M DH5 2480MHz



OBW 20dB π 4DQPSK 2M DH5 2480MHz

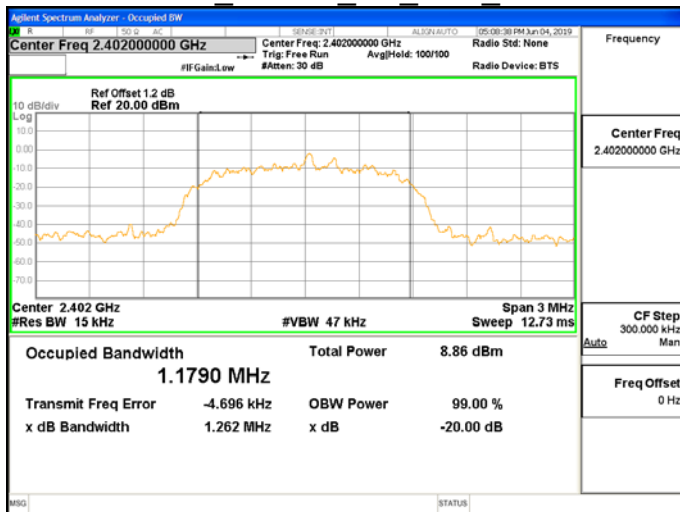


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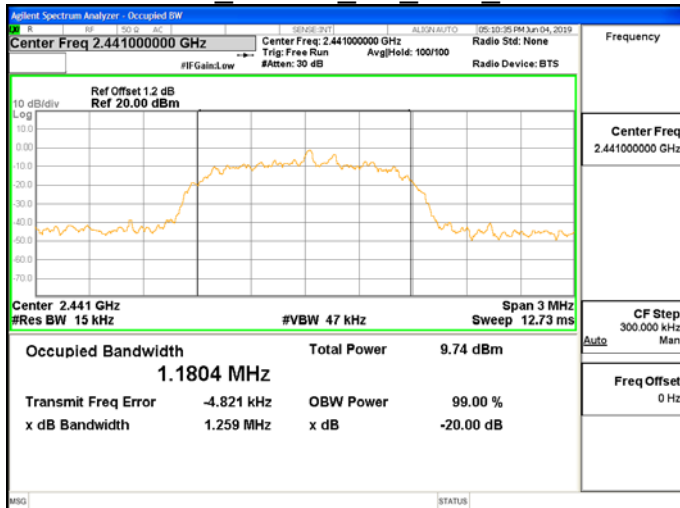
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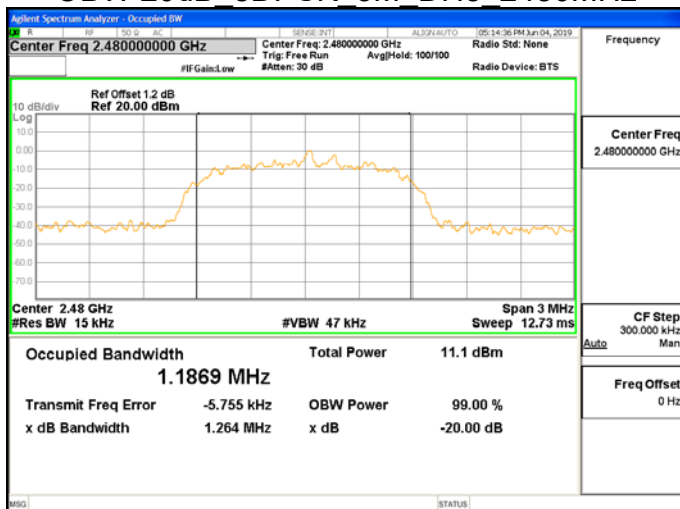
OBW 20dB 8DPSK 3M DH5 2402MHz



OBW 20dB 8DPSK 3M DH5 2441MHz



OBW 20dB 8DPSK 3M DH5 2480MHz



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9 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

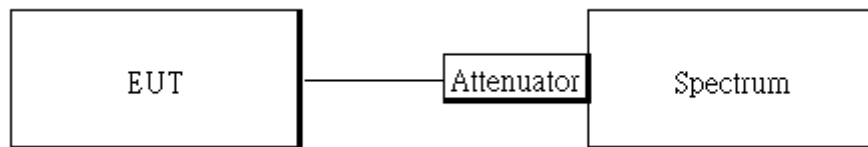
9.1 Standard Applicable

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, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

9.2 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/22/2019	04/21/2020
DC Block	Mini-Circuits	BLK-18-S+	31129(1)	02/26/2019	02/25/2020
Attenuator	Mini-Circuit	BW-S10W2+	3	02/26/2019	02/25/2020

9.3 Test SET-UP



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9.4 Measurement Procedure

Conducted Band Edge:

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10:2013.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set center frequency of spectrum analyzer = operating frequency.
5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Sweep = auto
6. Mark Peak, 2.3999GHz and 2.4836GHz and record the max. level.
7. Repeat above procedures until all frequency measured were complete.

Conducted Spurious Emission:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows ANSI C63.10:2013.
3. Set RBW = 100 kHz & VBW = 300 kHz, Detector =Peak, Sweep = Auto
4. Allow trace to fully stabilize.
5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
6. Repeat above procedures until all default test channel measured were complete.

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	

9.5 Measurement Result

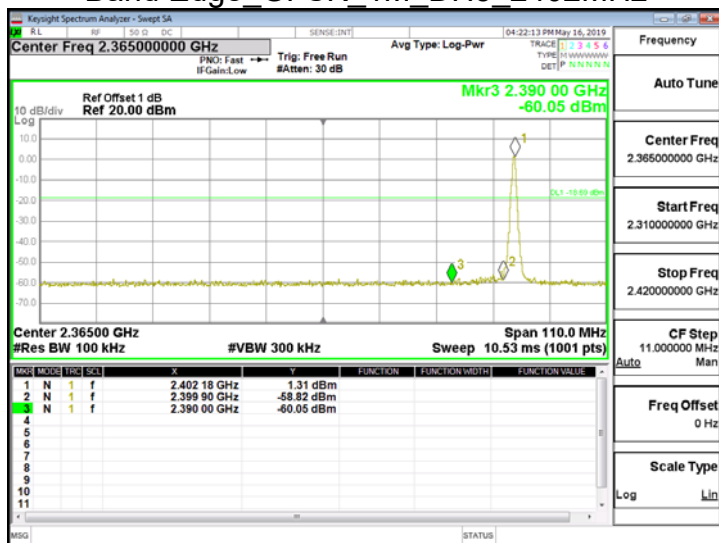
See next page for test plots.

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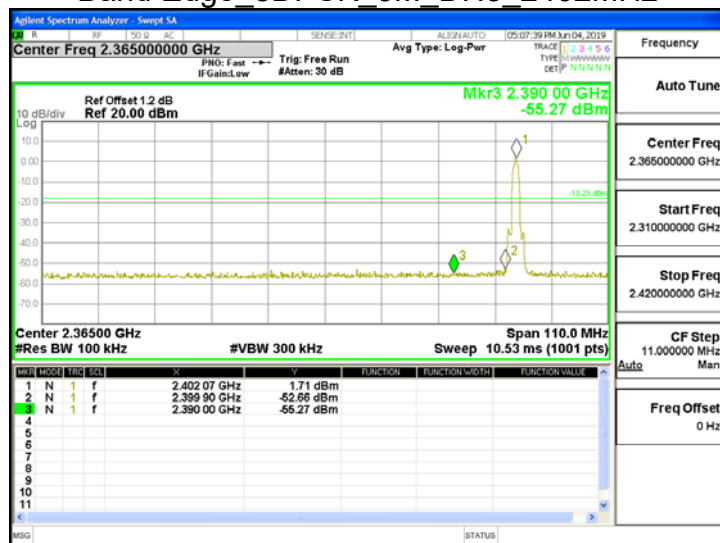
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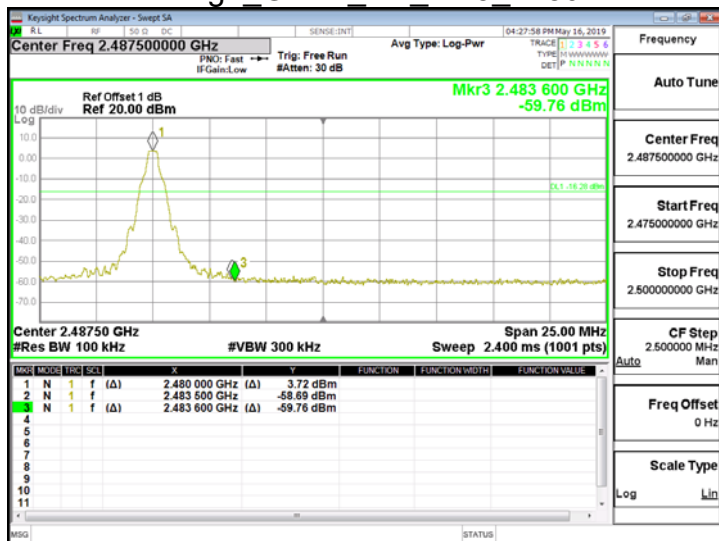
Band Edge_GFSK 1M DH5 2402MHz



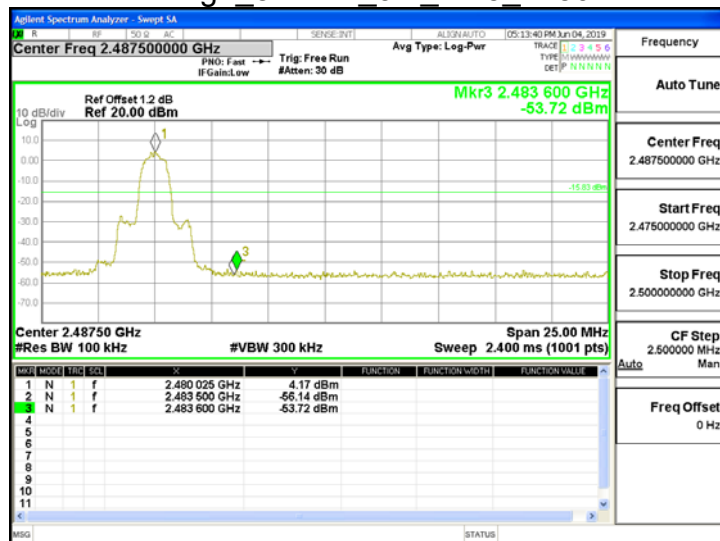
Band Edge_8DPSK 3M DH5 2402MHz



Band Edge_GFSK 1M DH5 2480MHz



Band Edge_8DPSK 3M DH5 2480MHz

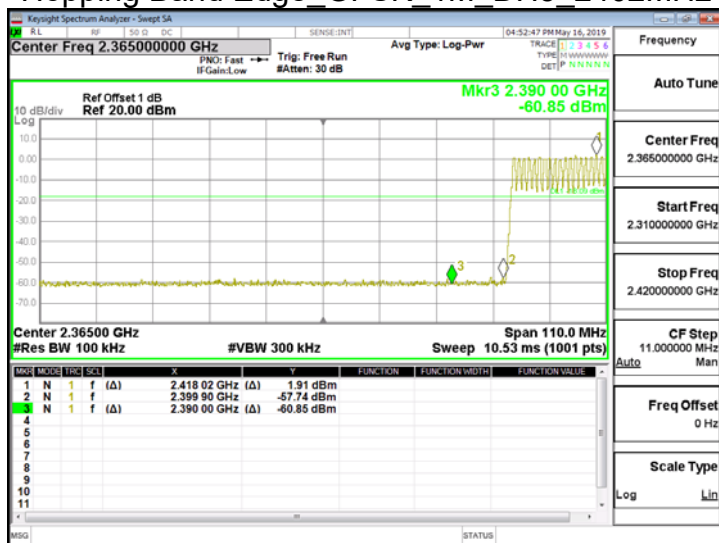


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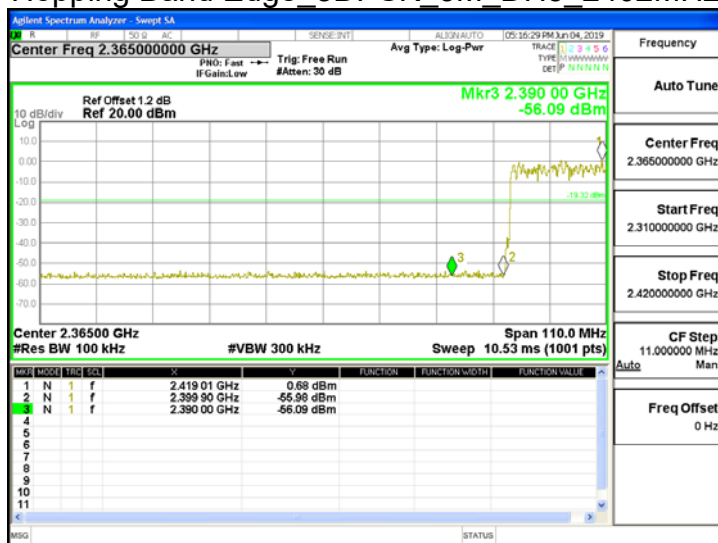
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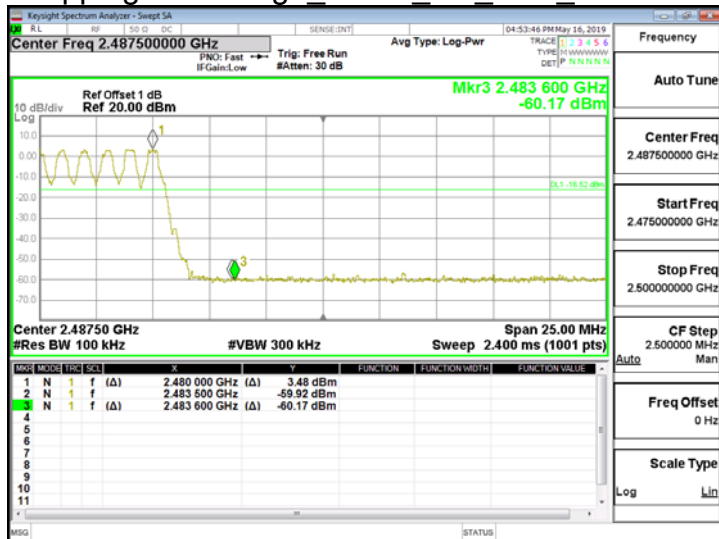
Hopping Band Edge GFSK 1M DH5 2402MHz



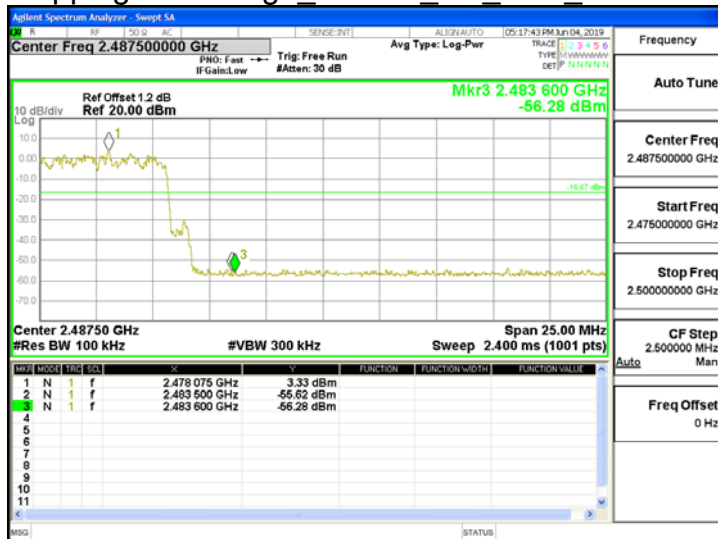
Hopping Band Edge 8DPSK 3M DH5 2402MHz



Hopping Band Edge GFSK 1M DH5 2480MHz



Hopping Band Edge 8DPSK 3M DH5 2480MHz

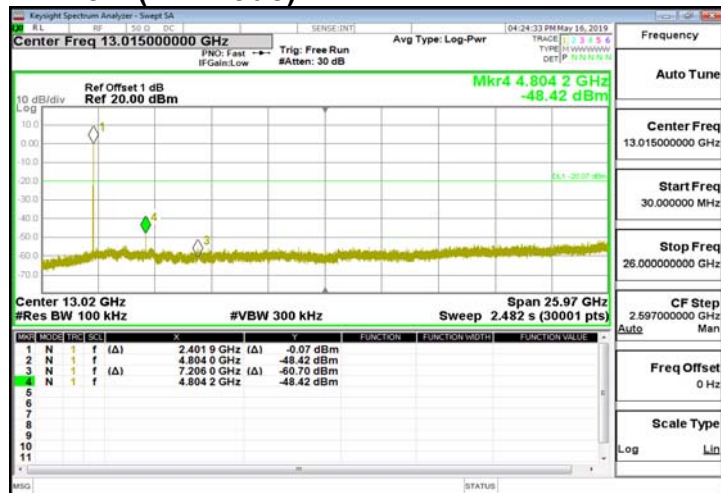


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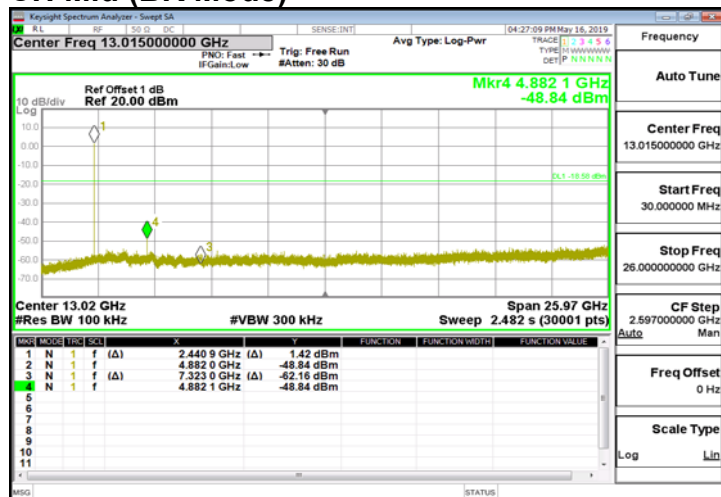
Conducted Spurious Emission Measurement Result CH Low (BR Mode)



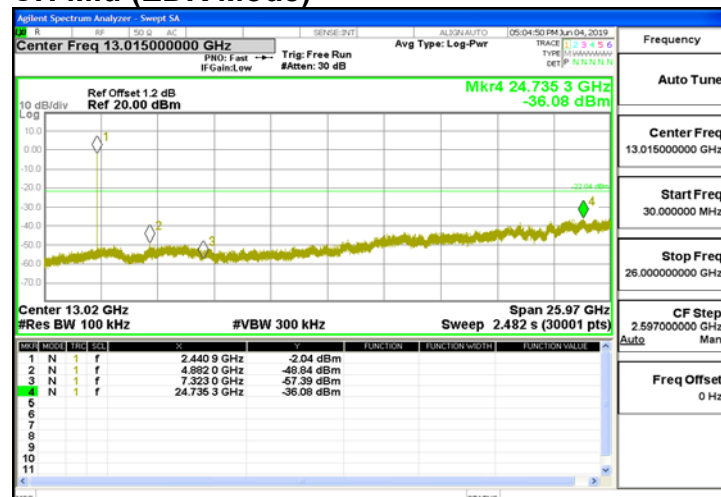
CH Low (EDR Mode)



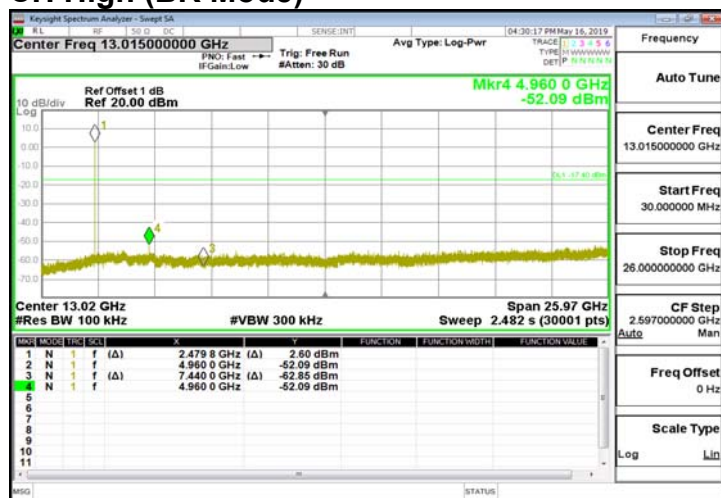
CH Mid (BR Mode)



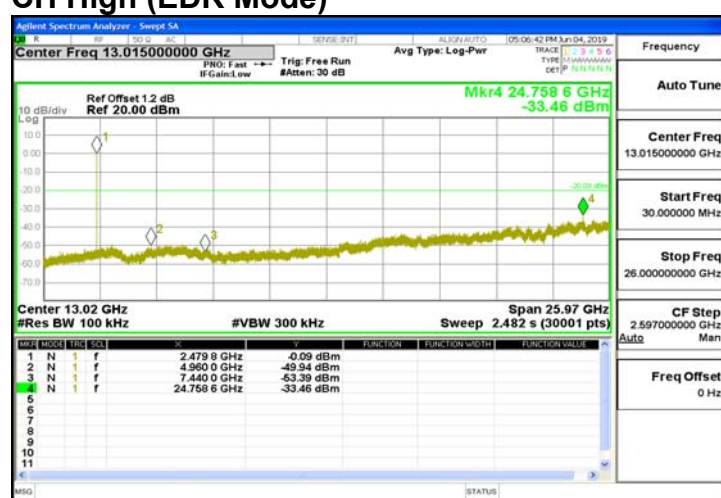
CH Mid (EDR Mode)



CH High (BR Mode)



CH High (EDR Mode)

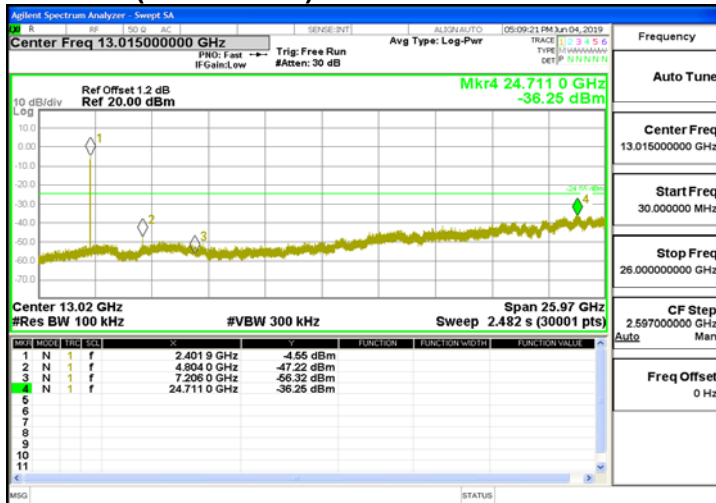


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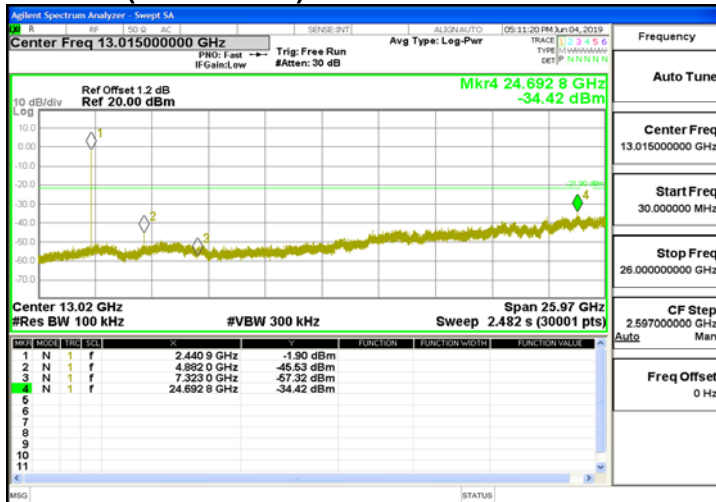
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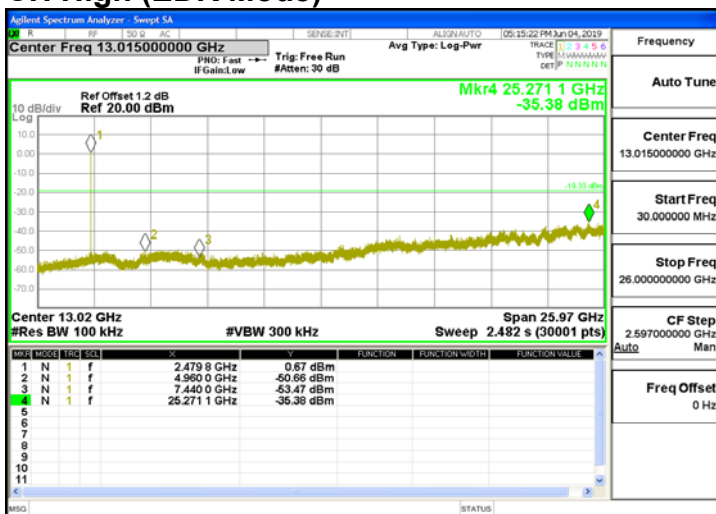
CH Low (EDR Mode)



CH Mid (EDR Mode)



CH High (EDR Mode)



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10 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

10.1 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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10.2 Measurement Equipment Used

966A Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	ETS LINDGREN	3116	00026370	12/26/2018	12/25/2019
Band Reject Filters	MICRO TRONICS	BRM 50702	120	02/26/2019	02/25/2020
Bilog Antenna	Sunol Sciences	JB3	A030105	07/13/2018	07/12/2019
Cable	HUBER SU-HNER	SUCOFLEX 104PEA	25157	06/29/2018	06/28/2019
Cable	HUBER SU-HNER	SUCOFLEX 104PEA	20995	06/29/2018	06/28/2019
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	01/30/2019	01/29/2020
double Ridged Guide Horn Antenna	ETC	MCTD 1209	DRH13M02003	08/20/2018	08/19/2019
Loop Ant	COM-POWER	AL-130	121051	03/22/2019	03/21/2020
Pre-Amplifier	EMEC	EM330	060609	06/29/2018	06/28/2019
Pre-Amplifier	HP	8449B	3008A00965	06/29/2018	06/28/2019
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
Software	e3 V6.11-20180413				

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

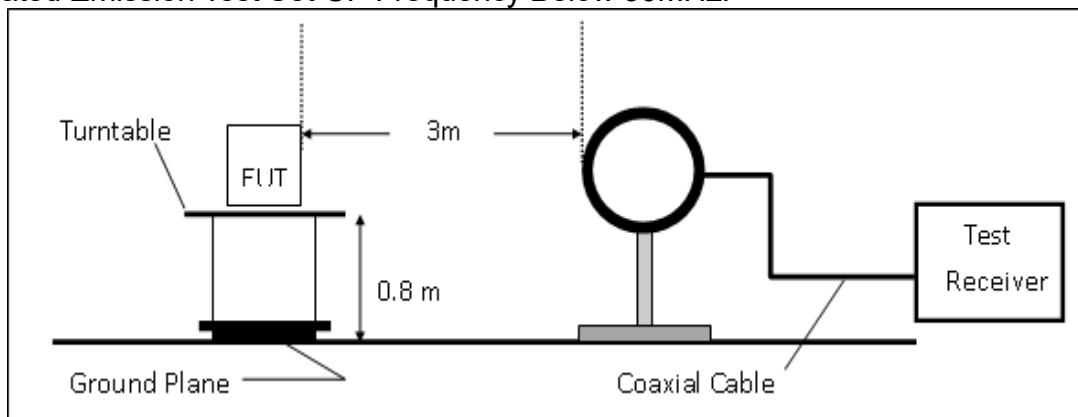
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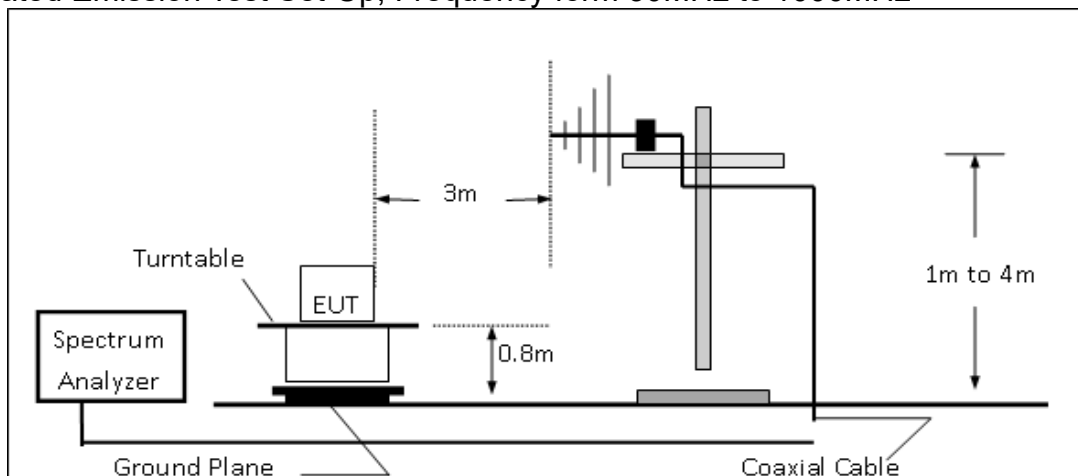
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10.3 Test SET-UP

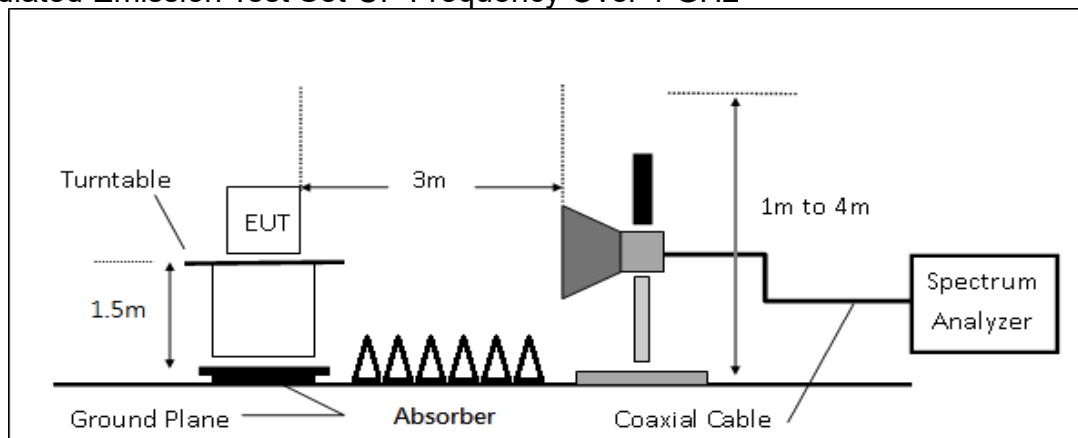
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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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10.4 Measurement Procedure

1. The testing follows the Measurement Procedure of ANSI C63.10:2013.
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.

10.5 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	

The limit of the emission level is expressed in dBuV/m, which converts $20 \cdot \log(\mu\text{V/m})$

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

10.6 Test Results of Radiated Spurious Emissions form 9 kHz to 30 MHz

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

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10.7 Measurement Result

Radiated Band Edge Measurement Result:

PCB Antenna

Project Number :T190321W03

Test Date :2019-06-07

Operation Band :BT BR

Temp./Humi. :21.5/57

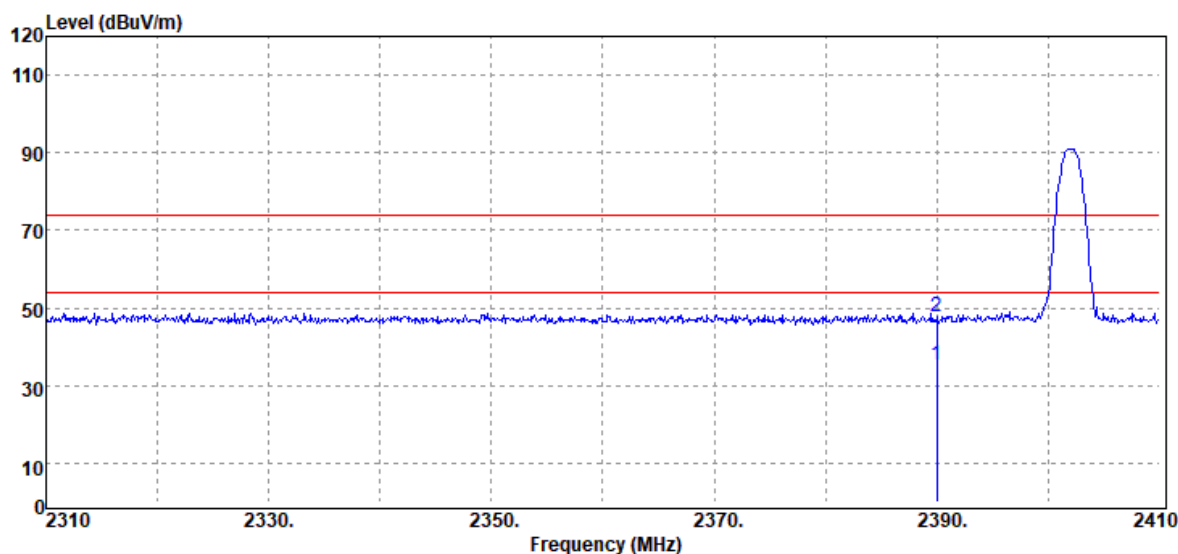
Frequency :2402 MHz

Antenna Pol. :VERTICAL

Operation Mode :BE CH Low

Engineer :Kane

EUT Pol. :H Plan



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	38.76	-3.38	35.38	54.00	-18.62
2390.00	Peak	50.99	-3.38	47.61	74.00	-26.39

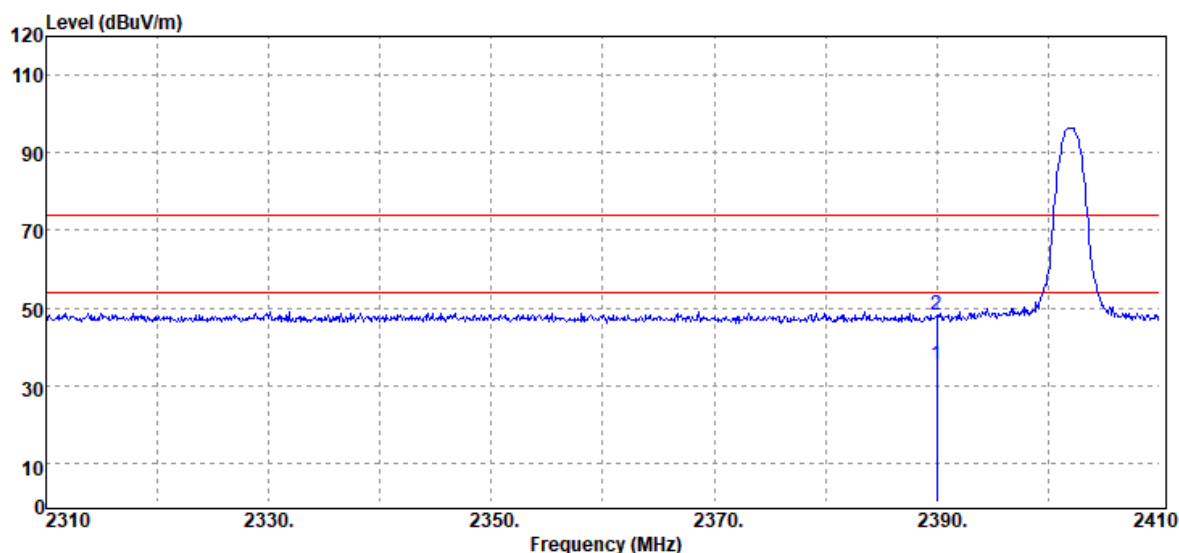
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Project Number :T190321W03
Operation Band :BT BR
Frequency :2402 MHz
Operation Mode :BE CH Low
EUT Pol. :H Plan

Test Date :2019-06-07
Temp./Humi. :21.5/57
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	38.67	-3.38	35.29	54.00	-18.71
2390.00	Peak	51.55	-3.38	48.17	74.00	-25.83

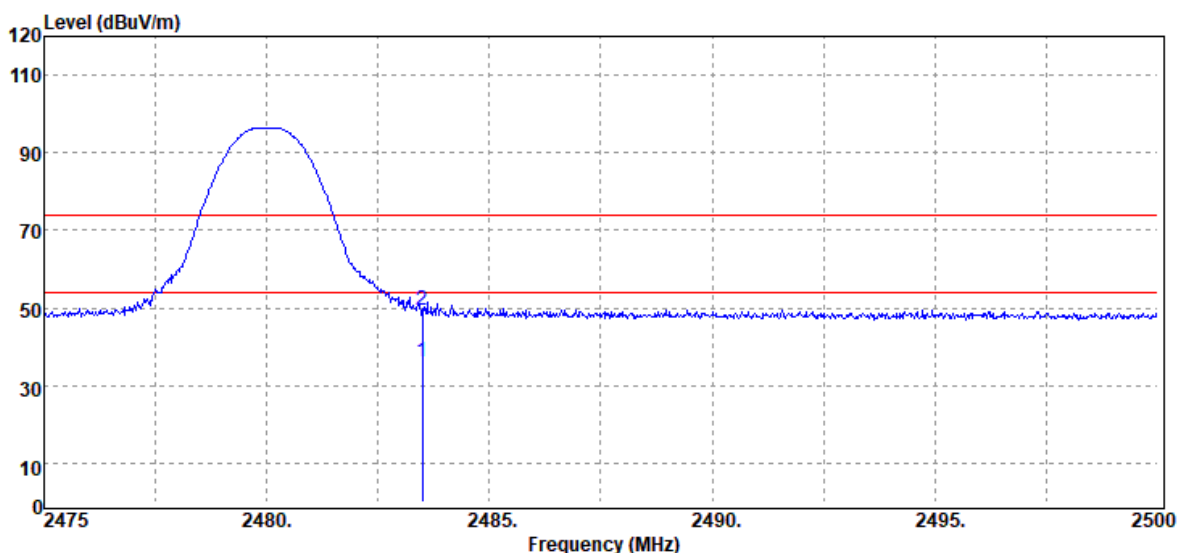
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Project Number :T190321W03
Operation Band :BT BR
Frequency :2480 MHz
Operation Mode :BE CH High
EUT Pol. :H Plan

Test Date :2019-06-07
Temp./Humi. :21.5/57
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	38.95	-2.83	36.12	54.00	-17.88
2483.50	Peak	52.17	-2.83	49.34	74.00	-24.66

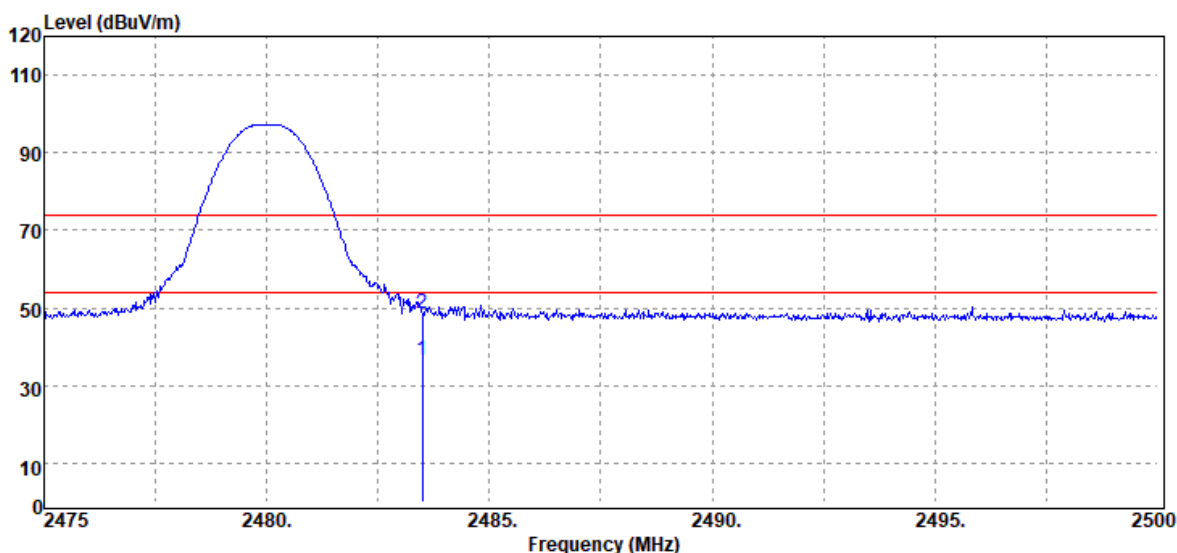
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Project Number :T190321W03
Operation Band :BT BR
Frequency :2480 MHz
Operation Mode :BE CH High
EUT Pol. :H Plan

Test Date :2019-06-07
Temp./Humi. :21.5/57
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	39.21	-2.83	36.38	54.00	-17.62
2483.50	Peak	51.37	-2.83	48.54	74.00	-25.46

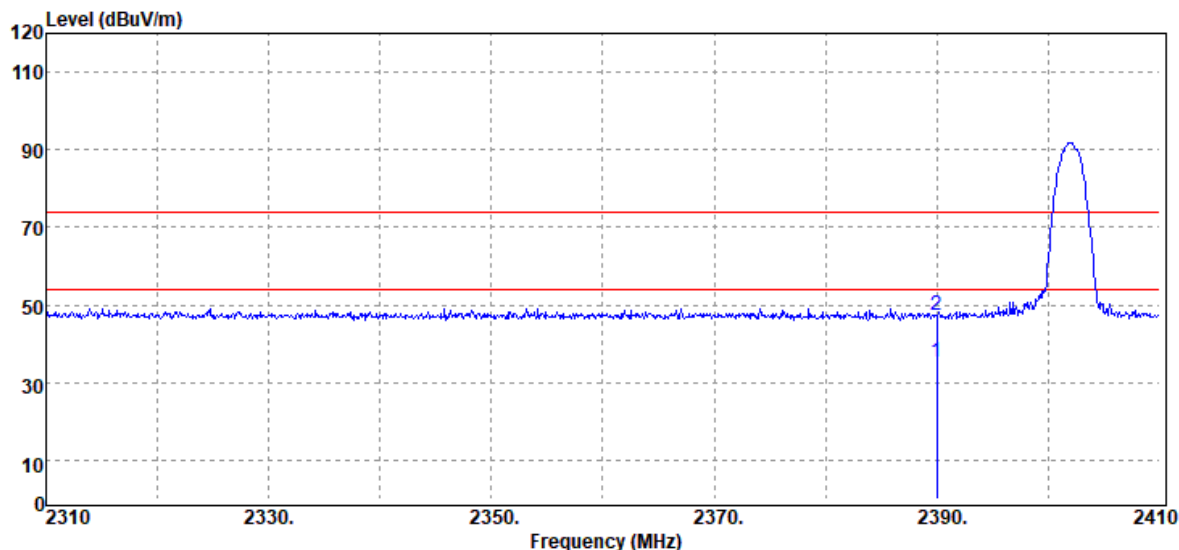
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Project Number :T190321W03
Operation Band :BT EDR
Frequency :2402 MHz
Operation Mode :BE CH Low
EUT Pol. :H Plan

Test Date :2019-06-07
Temp./Humi. :21.5/57
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	38.76	-3.38	35.38	54.00	-18.62
2390.00	Peak	50.82	-3.38	47.44	74.00	-26.56

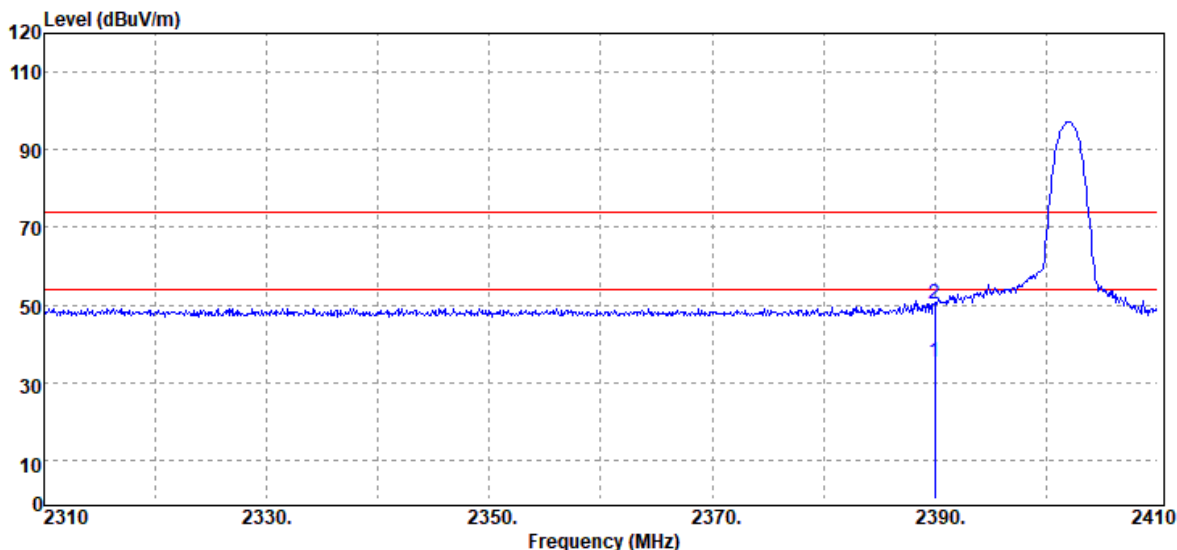
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Project Number :T190321W03
Operation Band :BT EDR
Frequency :2402 MHz
Operation Mode :BE CH Low
EUT Pol. :H Plan

Test Date :2019-06-07
Temp./Humi. :21.5/57
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	38.72	-3.38	35.34	54.00	-18.66
2390.00	Peak	53.65	-3.38	50.27	74.00	-23.73

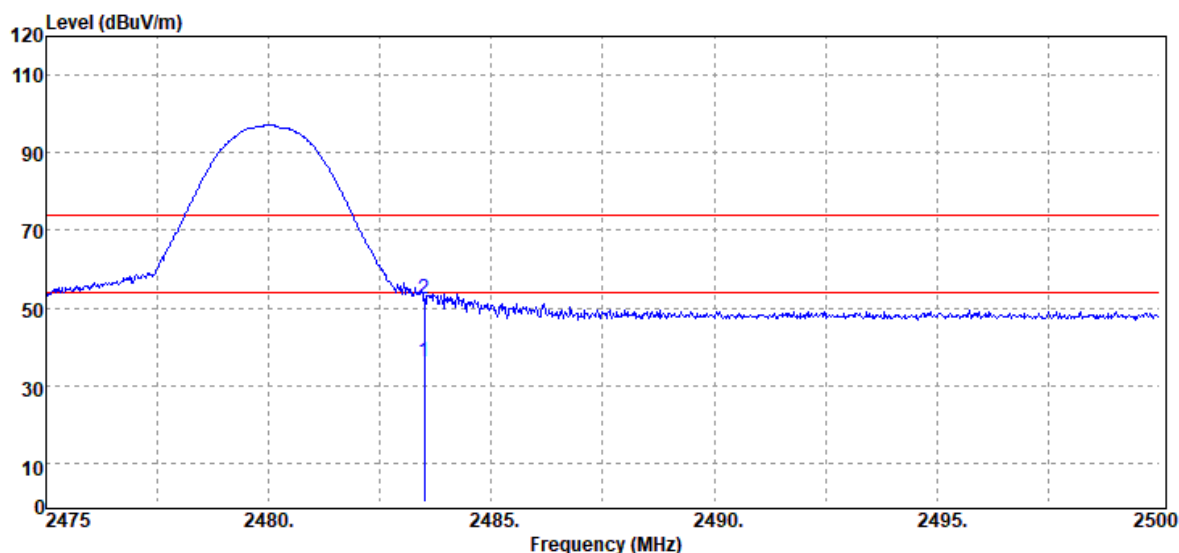
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Project Number :T190321W03
Operation Band :BT EDR
Frequency :2480 MHz
Operation Mode :BE CH High
EUT Pol. :H Plan

Test Date :2019-06-07
Temp./Humi. :21.5/57
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2483.50	Average	38.94	-2.83	36.11	54.00	-17.89
2483.50	Peak	55.30	-2.83	52.47	74.00	-21.53

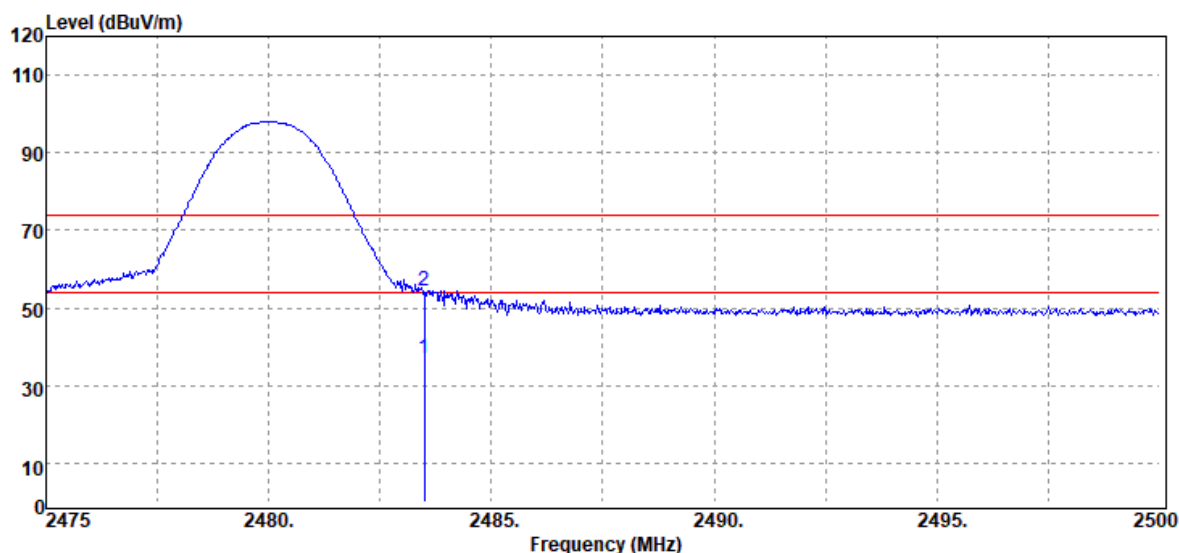
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Project Number :T190321W03
Operation Band :BT EDR
Frequency :2480 MHz
Operation Mode :BE CH High
EUT Pol. :H Plan

Test Date :2019-06-11
Temp./Humi. :21.5/57
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	39.71	-2.83	36.88	54.00	-17.12
2483.50	Peak	57.14	-2.83	54.31	74.00	-19.69

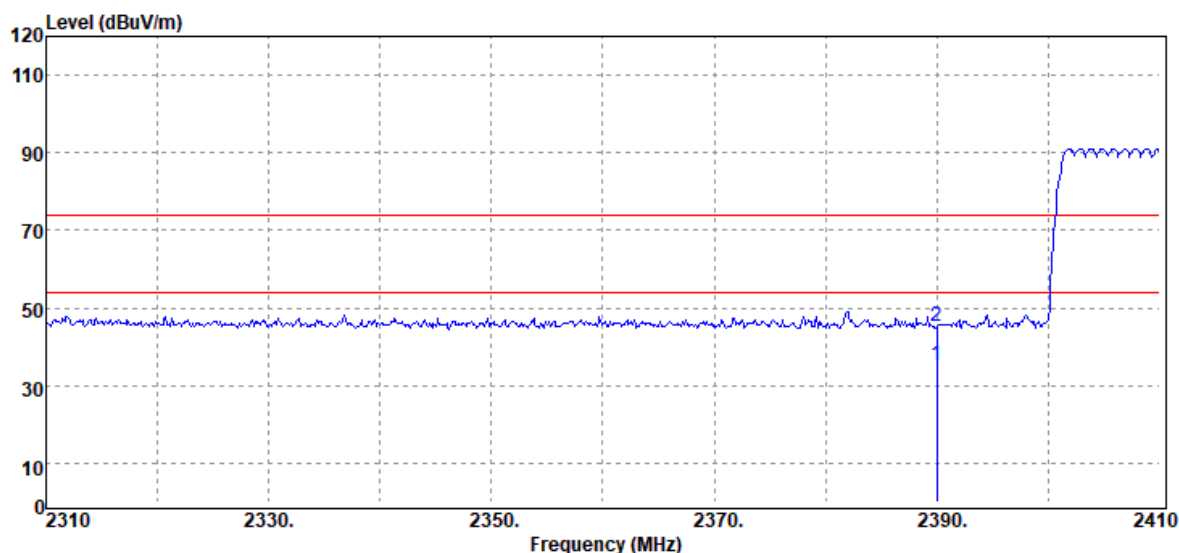
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Project Number :T190321W03
Operation Band :BT BR Hopping
Frequency :2402 MHz
Operation Mode :BE CH Low
EUT Pol. :H Plan

Test Date :2019-06-07
Temp./Humi. :21.5/57
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	38.52	-3.38	35.14	54.00	-18.86
2390.00	Peak	48.52	-3.38	45.14	74.00	-28.86

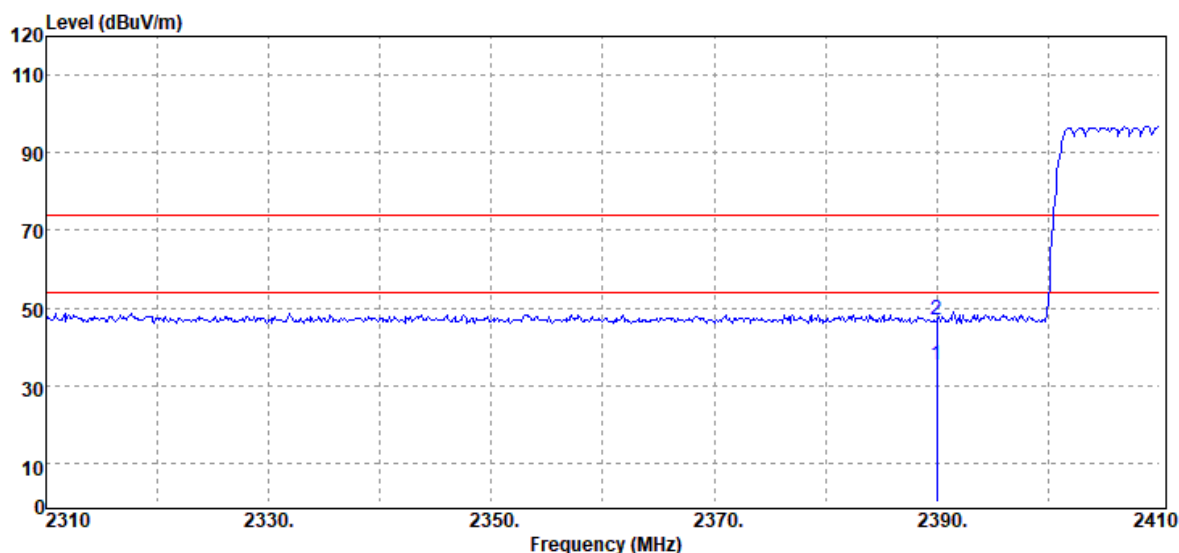
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Project Number :T190321W03
Operation Band :BT BR Hopping
Frequency :2402 MHz
Operation Mode :BE CH Low
EUT Pol. :H Plan

Test Date :2019-06-07
Temp./Humi. :21.5/57
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	38.58	-3.38	35.20	54.00	-18.80
2390.00	Peak	50.18	-3.38	46.80	74.00	-27.20

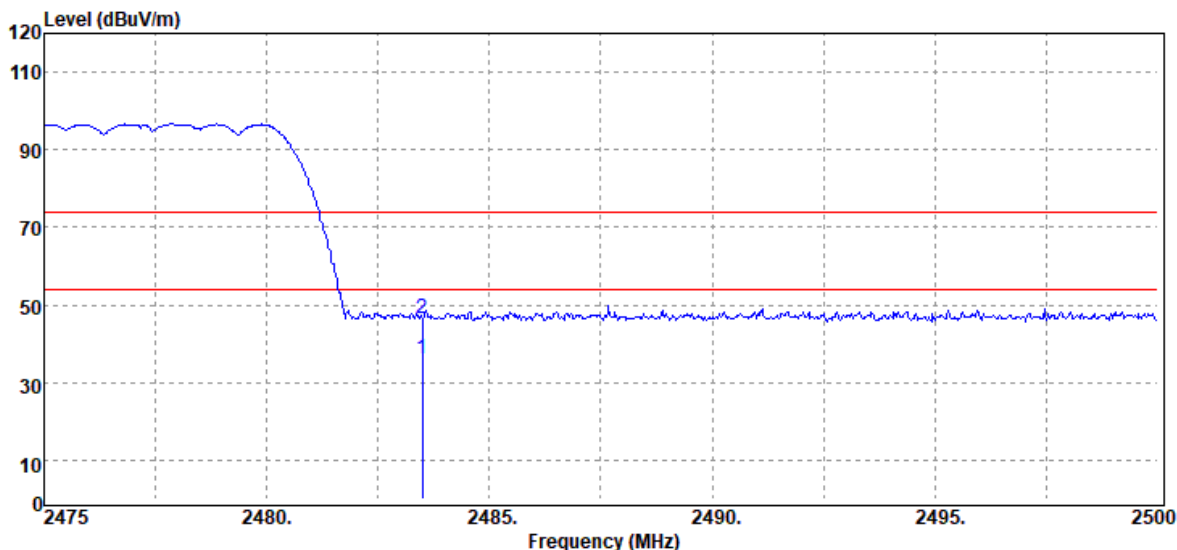
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Project Number :T190321W03
Operation Band :BT BR Hopping
Frequency :2480 MHz
Operation Mode :BE CH High
EUT Pol. :H Plan

Test Date :2019-06-07
Temp./Humi. :21.5/57
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	38.81	-2.83	35.98	54.00	-18.02
2483.50	Peak	49.41	-2.83	46.58	74.00	-27.42

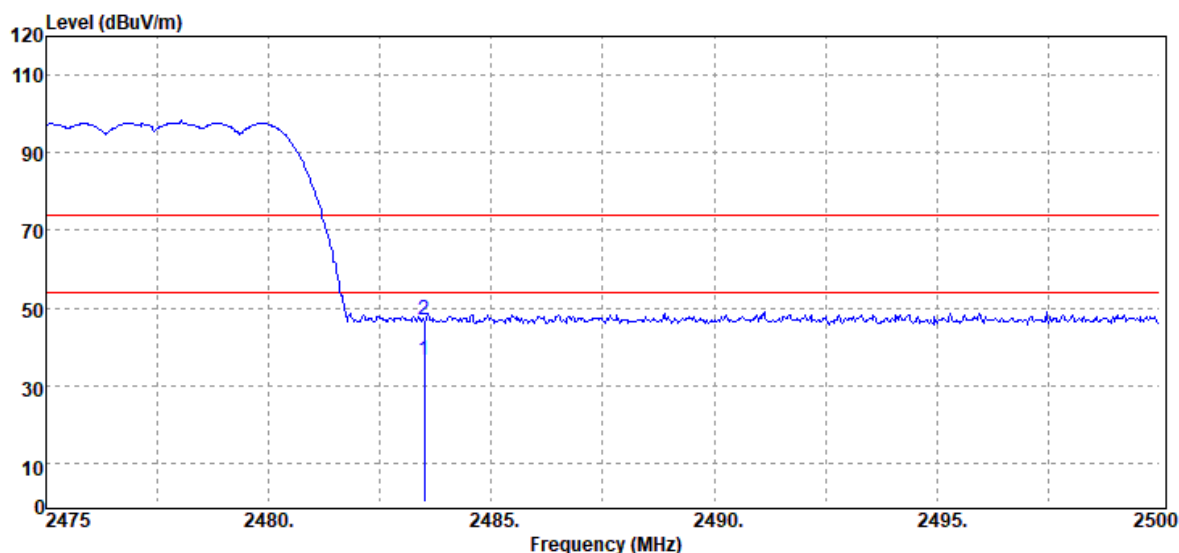
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Project Number :T190321W03
Operation Band :BT BR Hopping
Frequency :2480 MHz
Operation Mode :BE CH High
EUT Pol. :H Plan

Test Date :2019-06-11
Temp./Humi. :21.5/57
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	39.24	-2.83	36.41	54.00	-17.59
2483.50	Peak	49.56	-2.83	46.73	74.00	-27.27

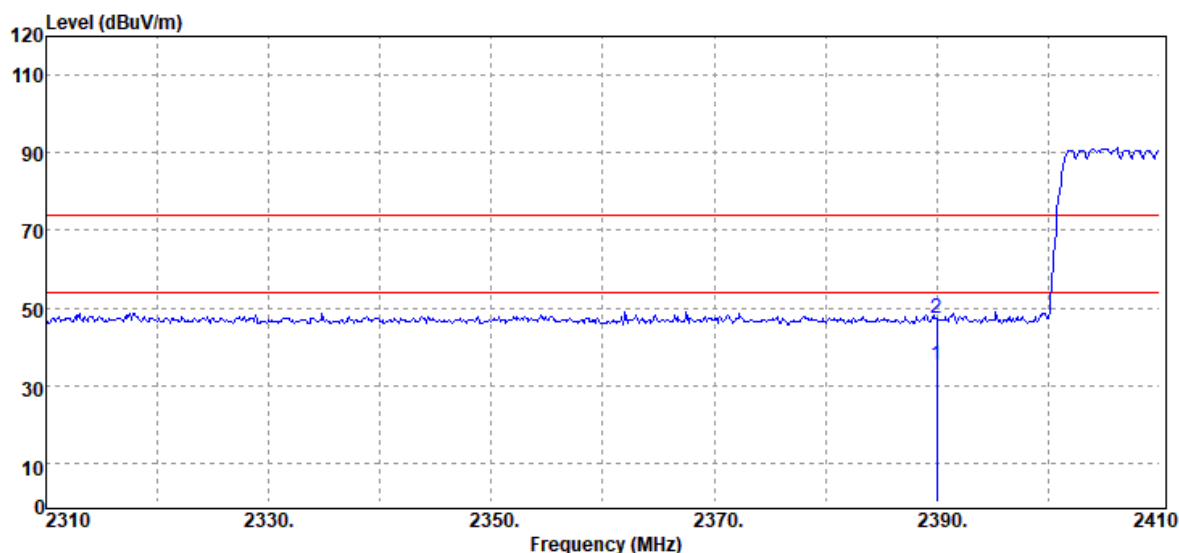
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Project Number :T190321W03
Operation Band :BT EDR Hopping
Frequency :2402 MHz
Operation Mode :BE CH Low
EUT Pol. :H Plan

Test Date :2019-06-07
Temp./Humi. :21.5/57
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	38.48	-3.38	35.10	54.00	-18.90
2390.00	Peak	50.81	-3.38	47.43	74.00	-26.57

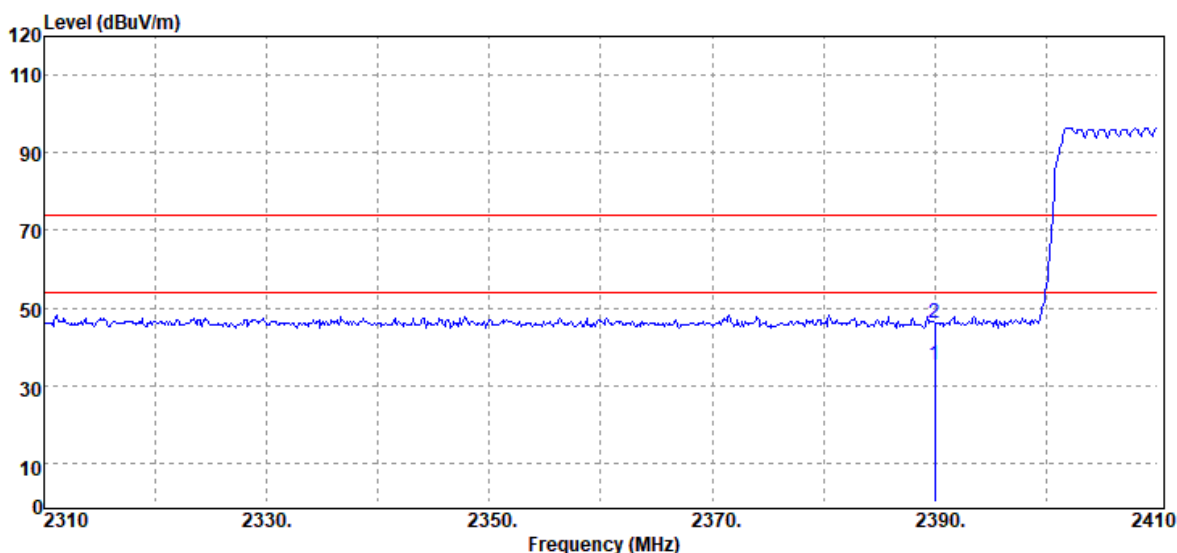
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Project Number :T190321W03
Operation Band :BT EDR Hopping
Frequency :2402 MHz
Operation Mode :BE CH Low
EUT Pol. :H Plan

Test Date :2019-06-07
Temp./Humi. :21.5/57
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	38.74	-3.38	35.36	54.00	-18.64
2390.00	Peak	49.27	-3.38	45.89	74.00	-28.11

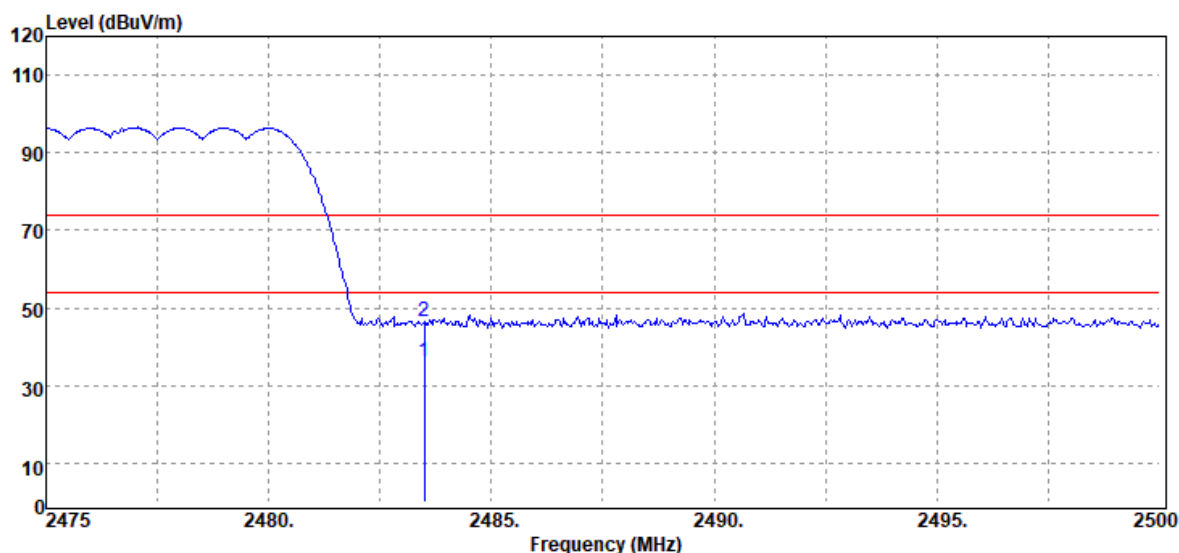
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Project Number :T190321W03
Operation Band :BT EDR Hopping
Frequency :2480 MHz
Operation Mode :BE CH High
EUT Pol. :H Plan

Test Date :2019-06-07
Temp./Humi. :21.5/57
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	38.77	-2.83	35.94	54.00	-18.06
2483.50	Peak	49.13	-2.83	46.30	74.00	-27.70

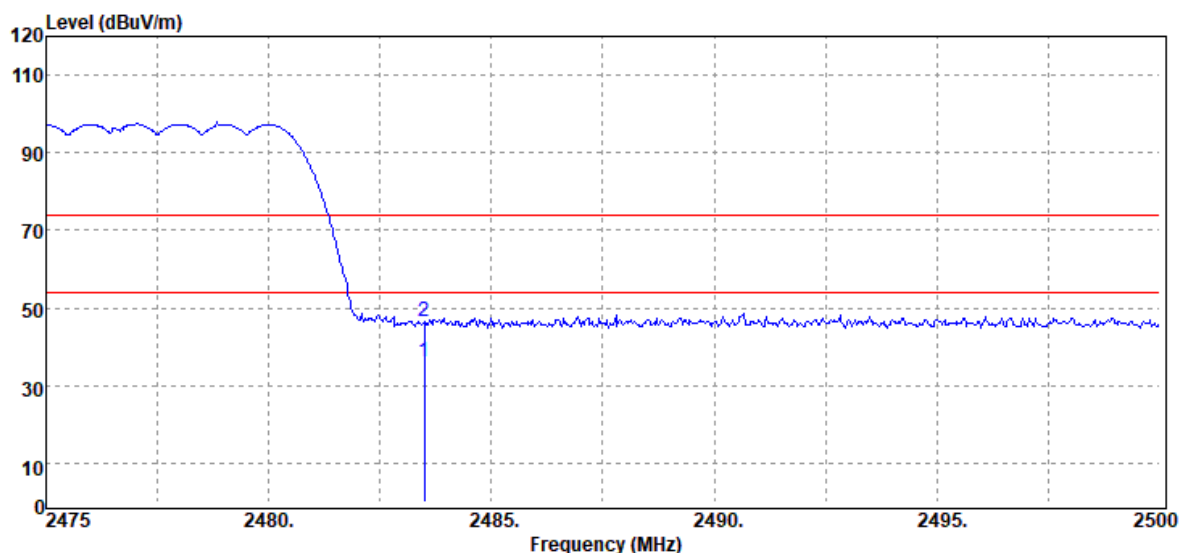
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Project Number :T190321W03
Operation Band :BT EDR Hopping
Frequency :2480 MHz
Operation Mode :BE CH High
EUT Pol. :H Plan

Test Date :2019-06-11
Temp./Humi. :21.5/57
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	38.82	-2.83	35.99	54.00	-18.01
2483.50	Peak	49.41	-2.83	46.58	74.00	-27.42

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Dipole Antenna

Project Number :T190321W03

Test Date :2019-06-07

Operation Band :BT BR

Temp./Humi. :23/52

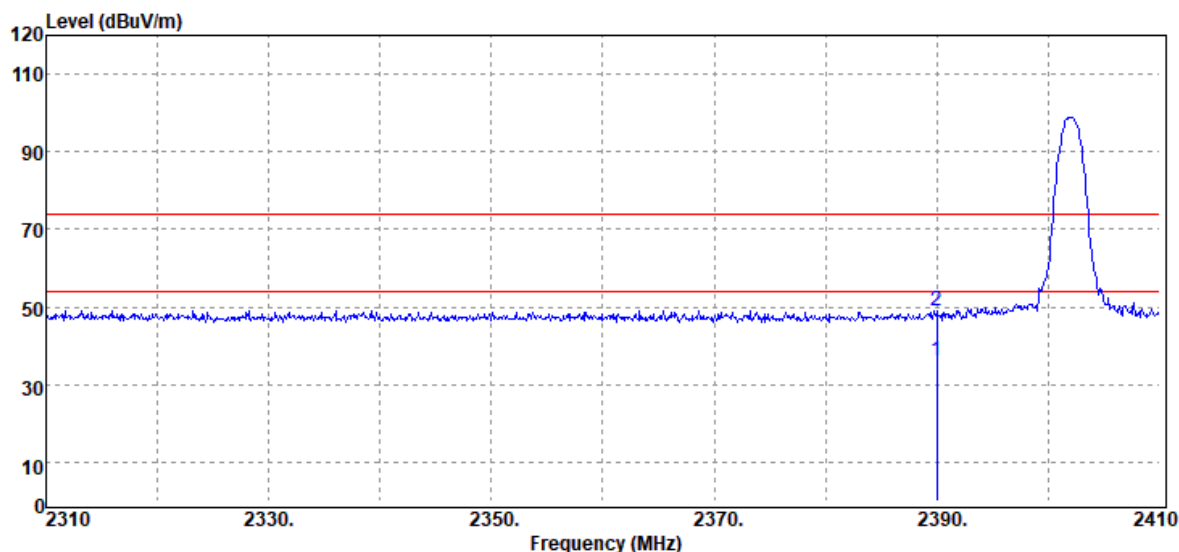
Frequency :2402 MHz

Antenna Pol. :VERTICAL

Operation Mode :BE CH Low

Engineer :Kane

EUT Pol. :H Plan



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2390.00	Average	39.36	-3.38	35.98	54.00	-18.02
2390.00	Peak	52.35	-3.38	48.97	74.00	-25.03

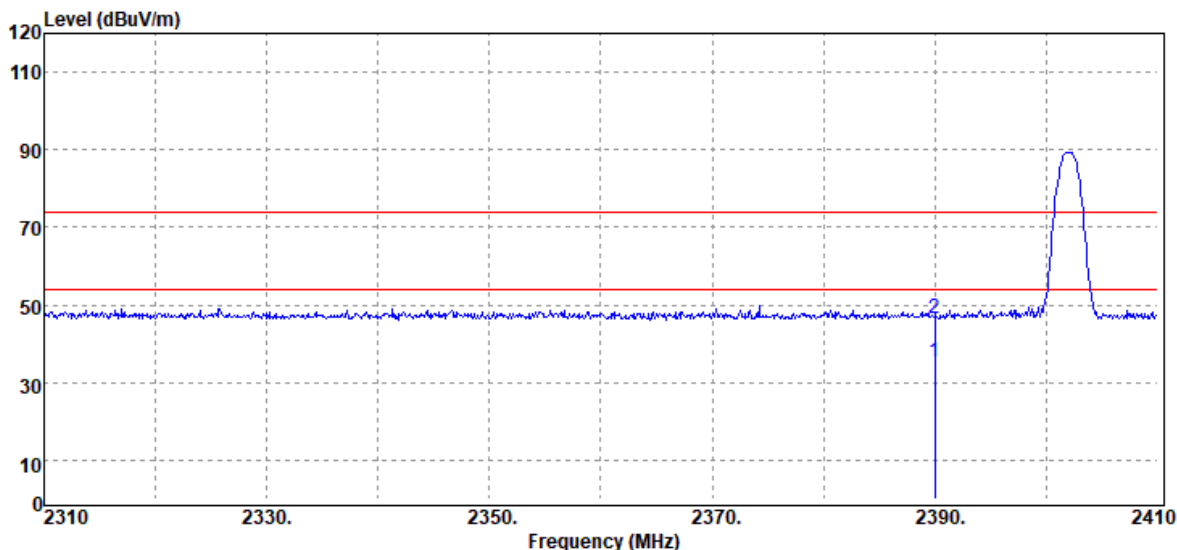
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Project Number :T190321W03
Operation Band :BT BR
Frequency :2402 MHz
Operation Mode :BE CH Low
EUT Pol. :H Plan

Test Date :2019-06-07
Temp./Humi. :23/52
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2390.00	Average	38.77	-3.38	35.39	54.00	-18.61
2390.00	Peak	49.80	-3.38	46.42	74.00	-27.58

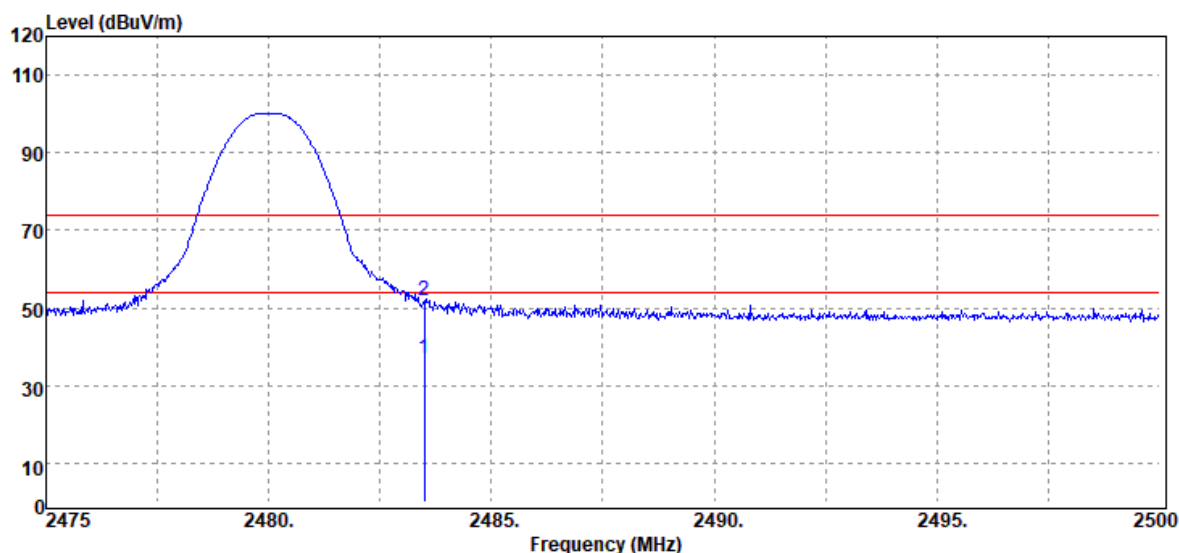
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Project Number :T190321W03
Operation Band :BT BR
Frequency :2480 MHz
Operation Mode :BE CH High
EUT Pol. :H Plan

Test Date :2019-06-07
Temp./Humi. :23/52
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2483.50	Average	39.81	-2.83	36.98	54.00	-17.02
2483.50	Peak	54.80	-2.83	51.97	74.00	-22.03

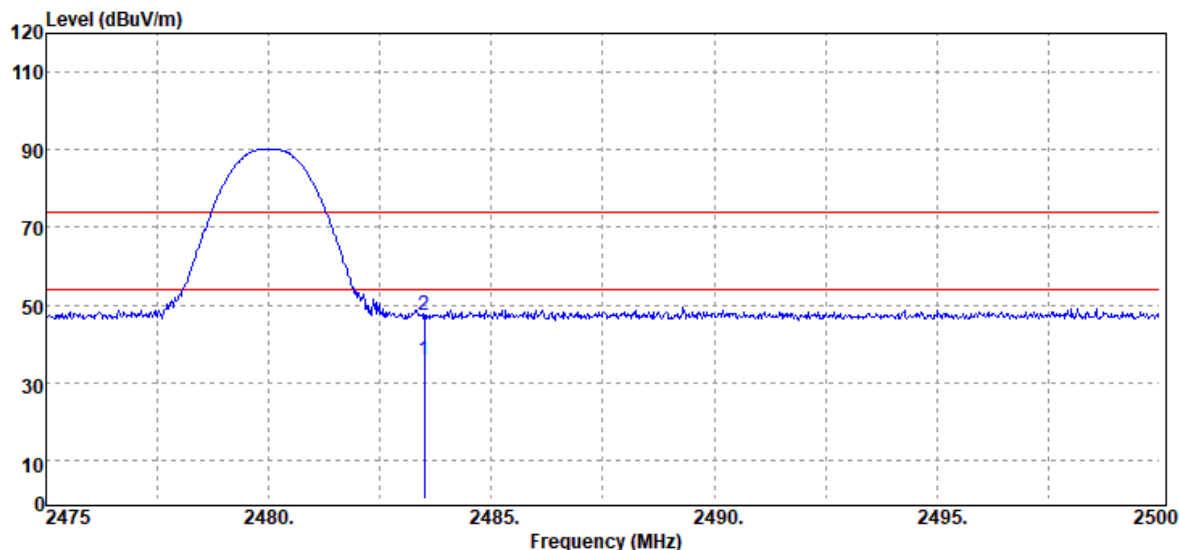
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Project Number :T190321W03
Operation Band :BT BR
Frequency :2480 MHz
Operation Mode :BE CH High
EUT Pol. :H Plan

Test Date :2019-06-07
Temp./Humi. :23/52
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	38.34	-2.83	35.51	54.00	-18.49
2483.50	Peak	50.16	-2.83	47.33	74.00	-26.67

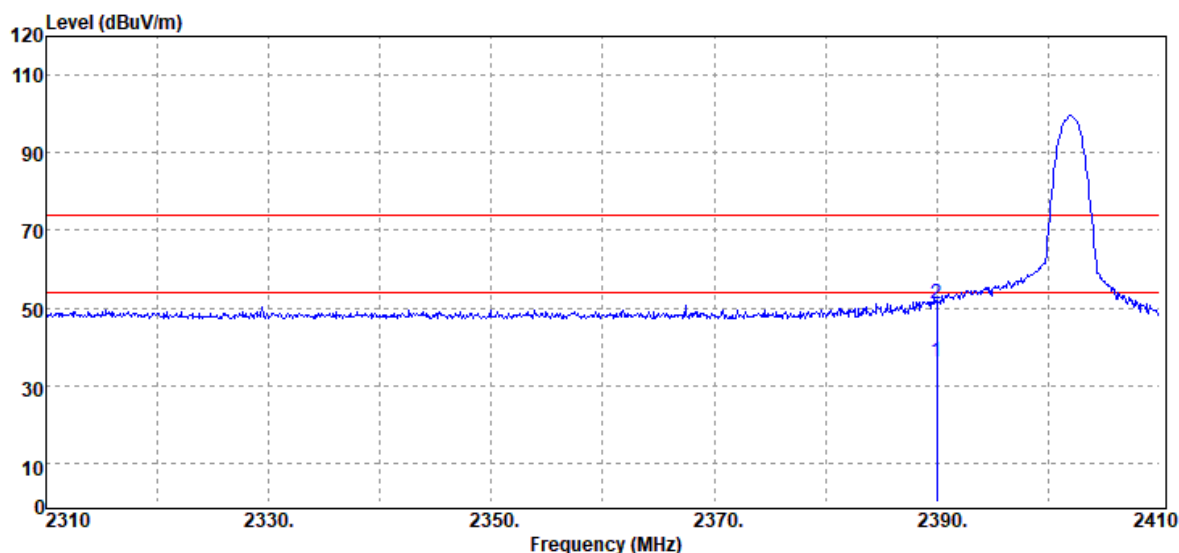
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Project Number :T190321W03
Operation Band :BT EDR
Frequency :2402 MHz
Operation Mode :BE CH Low
EUT Pol. :H Plan

Test Date :2019-06-07
Temp./Humi. :23/52
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	39.53	-3.38	36.15	54.00	-17.85
2390.00	Peak	54.47	-3.38	51.09	74.00	-22.91

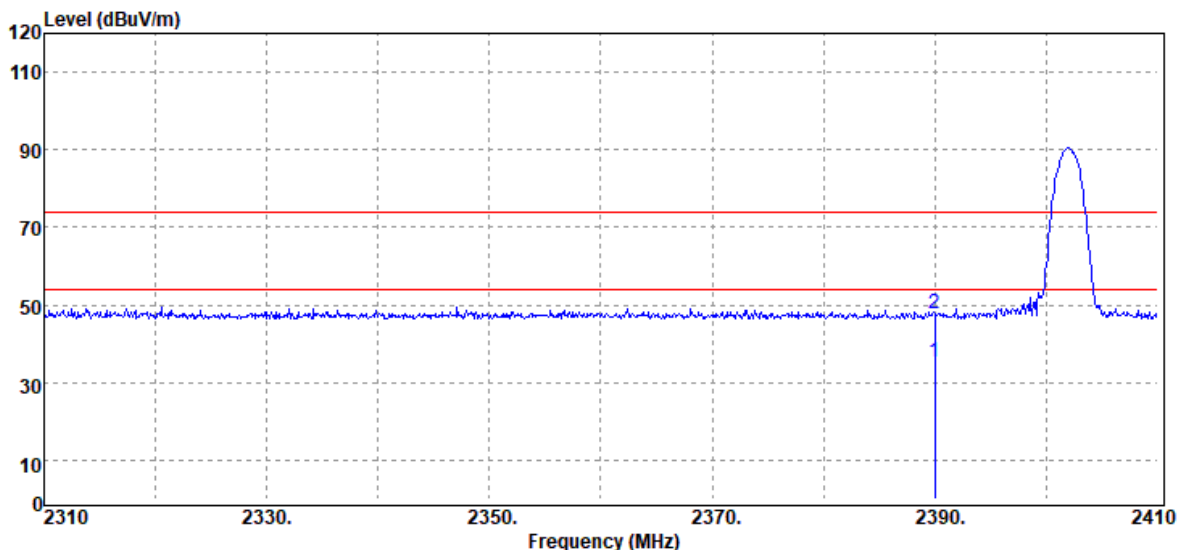
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Project Number :T190321W03
Operation Band :BT EDR
Frequency :2402 MHz
Operation Mode :BE CH Low
EUT Pol. :H Plan

Test Date :2019-06-07
Temp./Humi. :23/52
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	38.67	-3.38	35.29	54.00	-18.71
2390.00	Peak	51.08	-3.38	47.70	74.00	-26.30

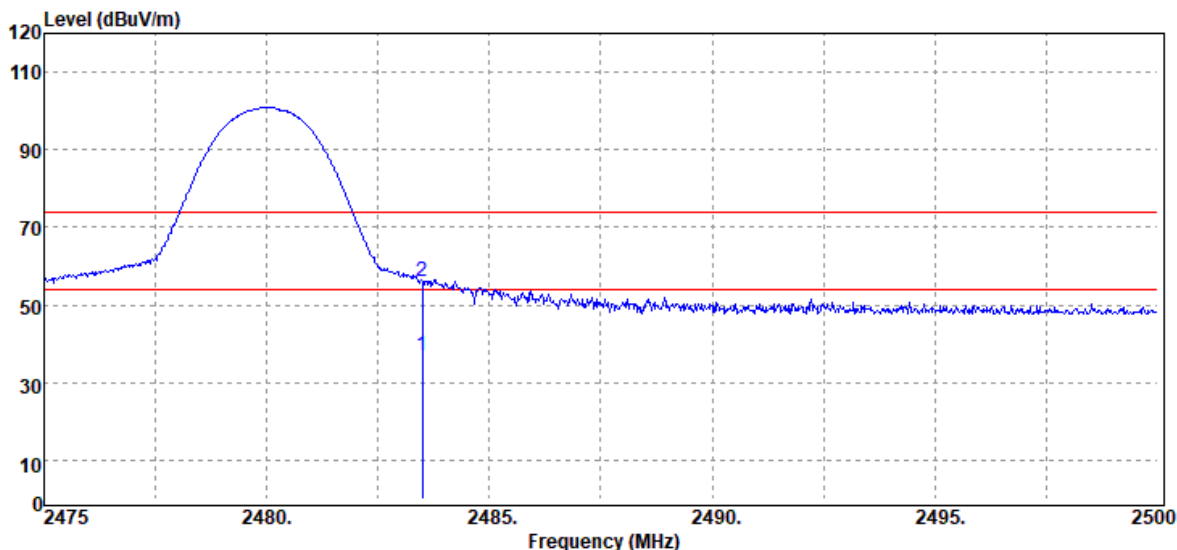
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Project Number :T190321W03
Operation Band :BT EDR
Frequency :2480 MHz
Operation Mode :BE CH High
EUT Pol. :H Plan

Test Date :2019-06-07
Temp./Humi. :23/52
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2483.50	Average	39.93	-2.83	37.10	54.00	-16.90
2483.50	Peak	59.09	-2.83	56.26	74.00	-17.74

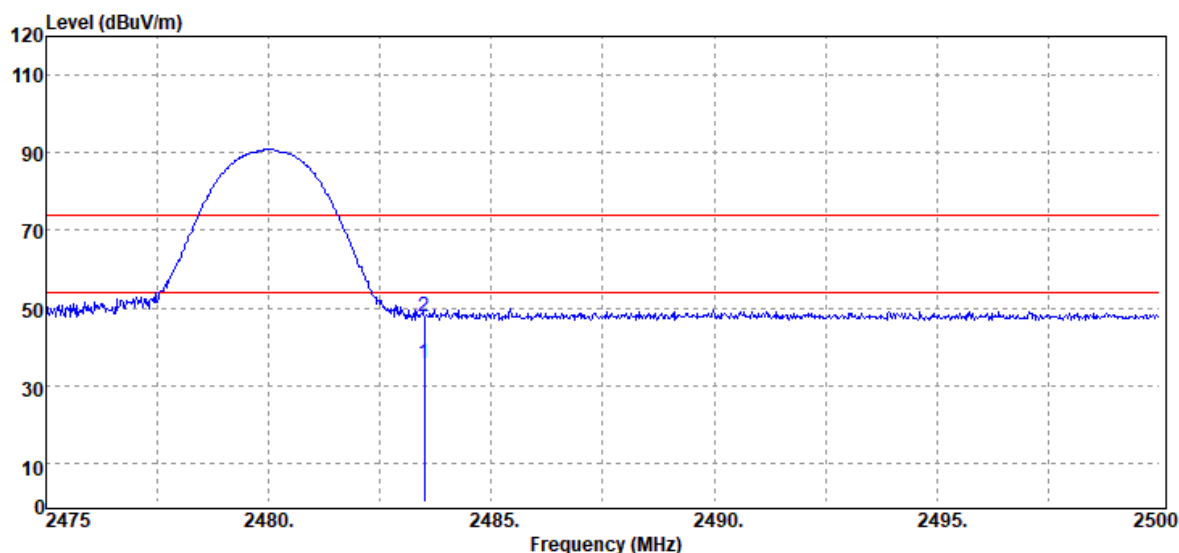
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Project Number :T190321W03
Operation Band :BT EDR
Frequency :2480 MHz
Operation Mode :BE CH High
EUT Pol. :H Plan

Test Date :2019-06-07
Temp./Humi. :23/52
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	38.63	-2.83	35.80	54.00	-18.20
2483.50	Peak	50.47	-2.83	47.64	74.00	-26.36

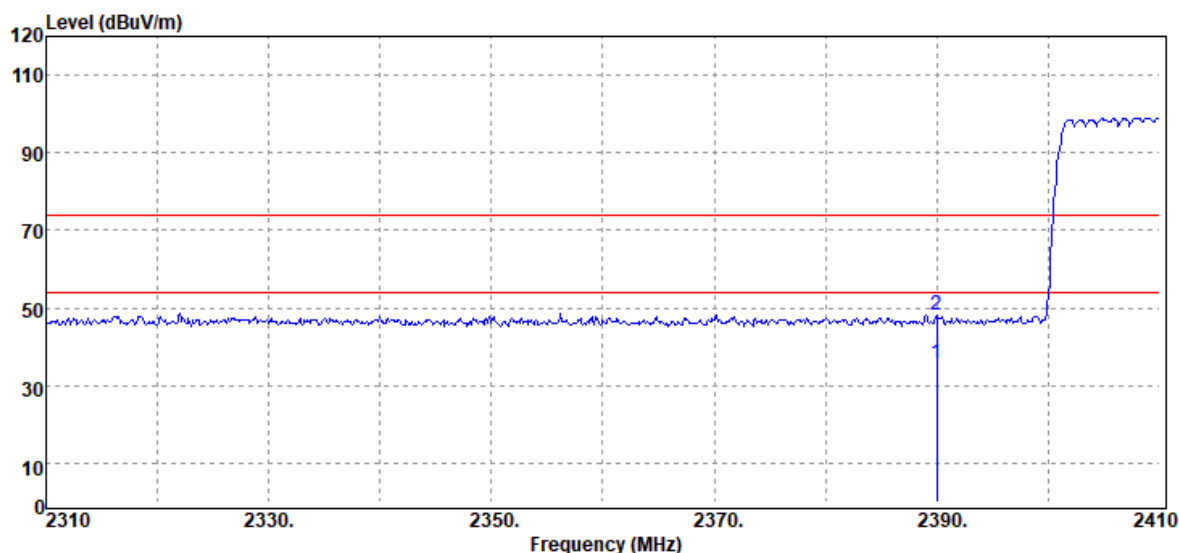
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Project Number :T190321W03
Operation Band :BT BR Hopping
Frequency :2402 MHz
Operation Mode :BE CH Low
EUT Pol. :H Plan

Test Date :2019-06-07
Temp./Humi. :23/52
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	39.12	-3.38	35.74	54.00	-18.26
2390.00	Peak	51.34	-3.38	47.96	74.00	-26.04

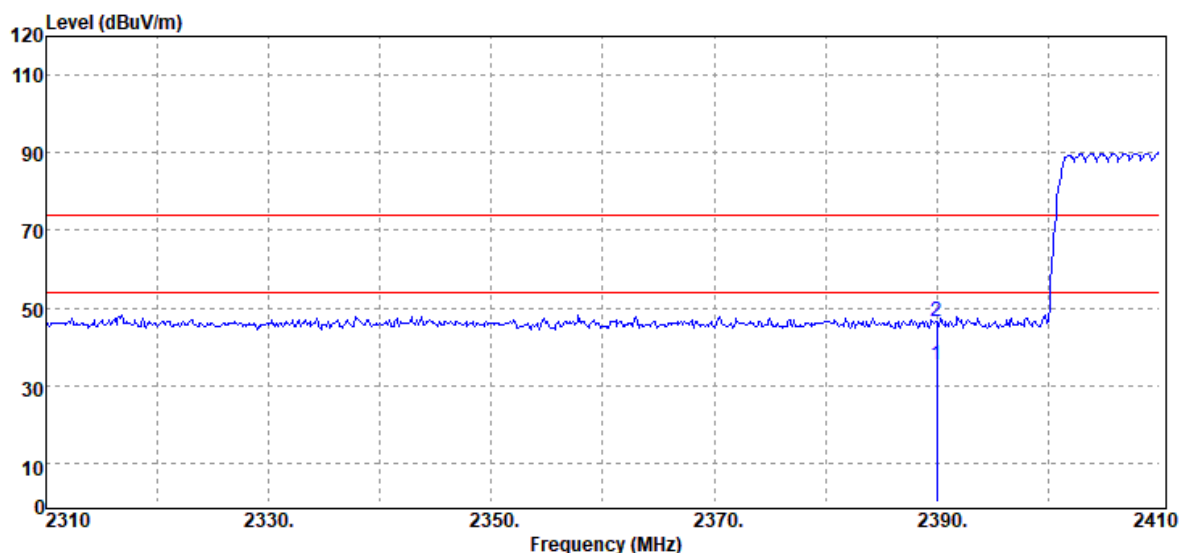
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Project Number :T190321W03
Operation Band :BT BR Hopping
Frequency :2402 MHz
Operation Mode :BE CH Low
EUT Pol. :H Plan

Test Date :2019-06-07
Temp./Humi. :23/52
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	38.71	-3.38	35.33	54.00	-18.67
2390.00	Peak	49.75	-3.38	46.37	74.00	-27.63

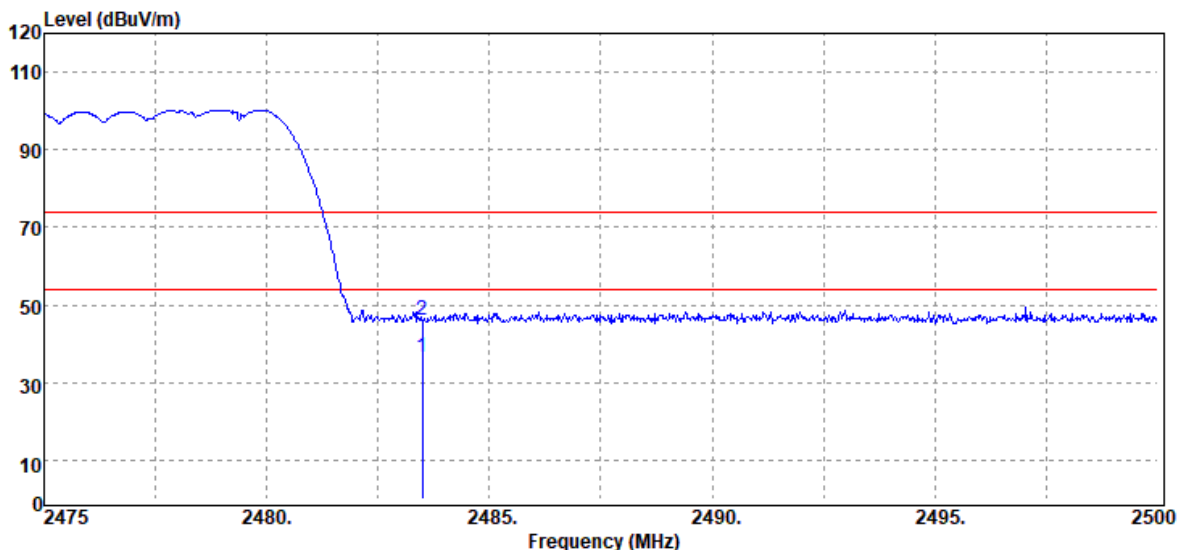
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Project Number :T190321W03
Operation Band :BT BR Hopping
Frequency :2480 MHz
Operation Mode :BE CH High
EUT Pol. :H Plan

Test Date :2019-06-07
Temp./Humi. :23/52
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	39.52	-2.83	36.69	54.00	-17.31
2483.50	Peak	48.86	-2.83	46.03	74.00	-27.97

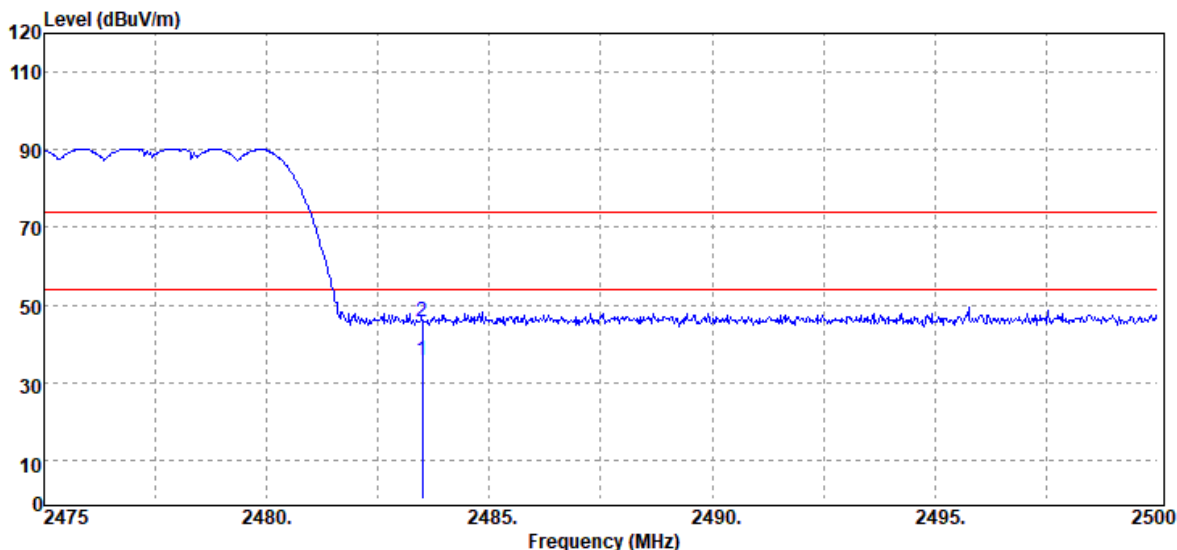
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Project Number :T190321W03
Operation Band :BT BR Hopping
Frequency :2480 MHz
Operation Mode :BE CH High
EUT Pol. :H Plan

Test Date :2019-06-07
Temp./Humi. :23/52
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	38.36	-2.83	35.53	54.00	-18.47
2483.50	Peak	48.59	-2.83	45.76	74.00	-28.24

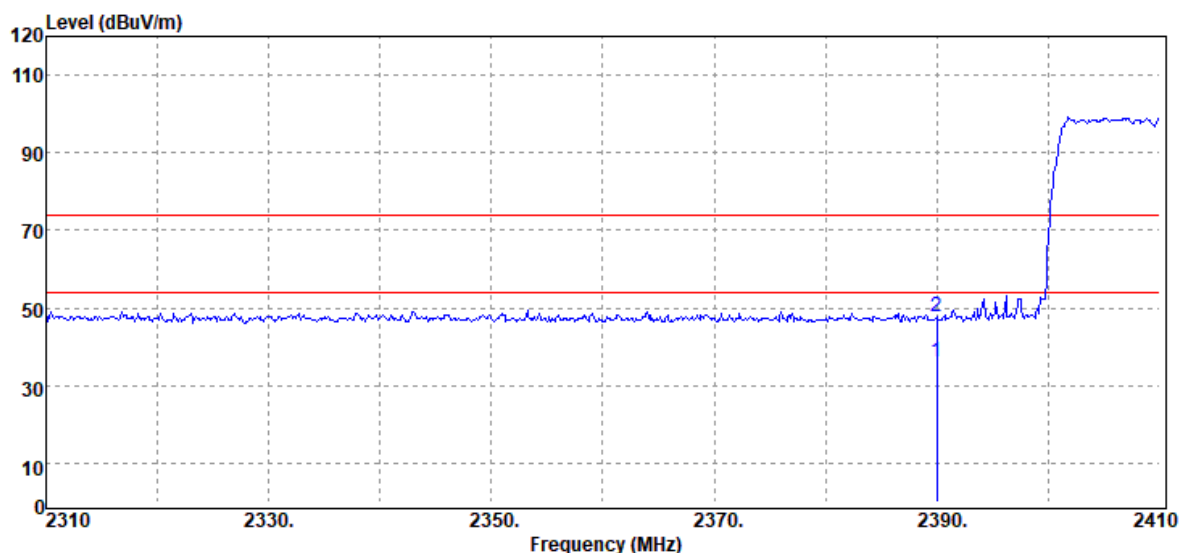
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Project Number :T190321W03
Operation Band :BT EDR Hopping
Frequency :2402 MHz
Operation Mode :BE CH Low
EUT Pol. :H Plan

Test Date :2019-06-07
Temp./Humi. :23/52
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	39.30	-3.38	35.92	54.00	-18.08
2390.00	Peak	51.14	-3.38	47.76	74.00	-26.24

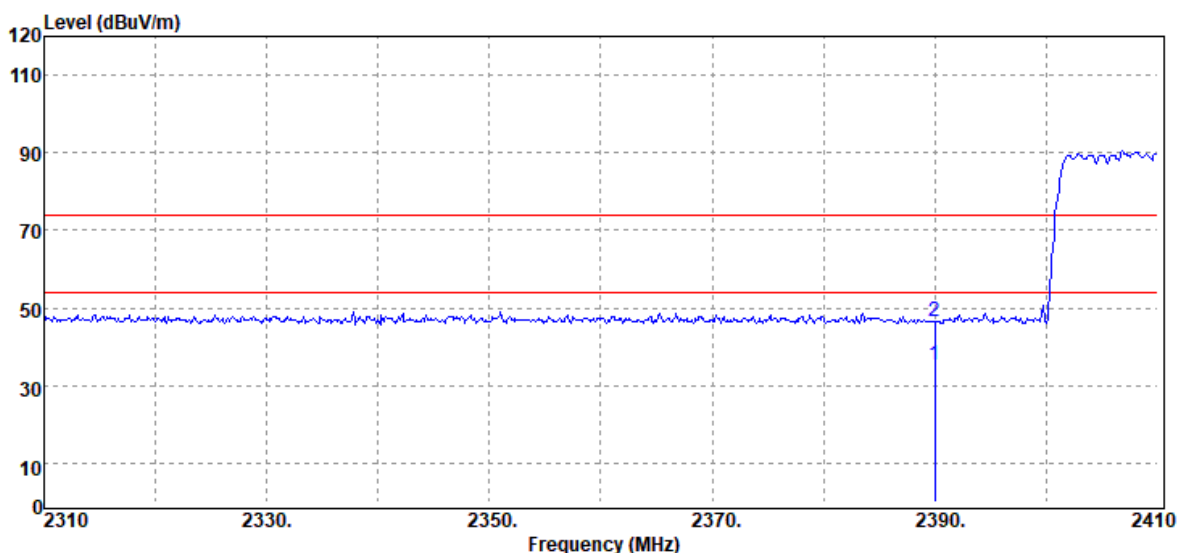
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Project Number :T190321W03
Operation Band :BT EDR Hopping
Frequency :2402 MHz
Operation Mode :BE CH Low
EUT Pol. :H Plan

Test Date :2019-06-07
Temp./Humi. :23/52
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	38.71	-3.38	35.33	54.00	-18.67
2390.00	Peak	49.83	-3.38	46.45	74.00	-27.55

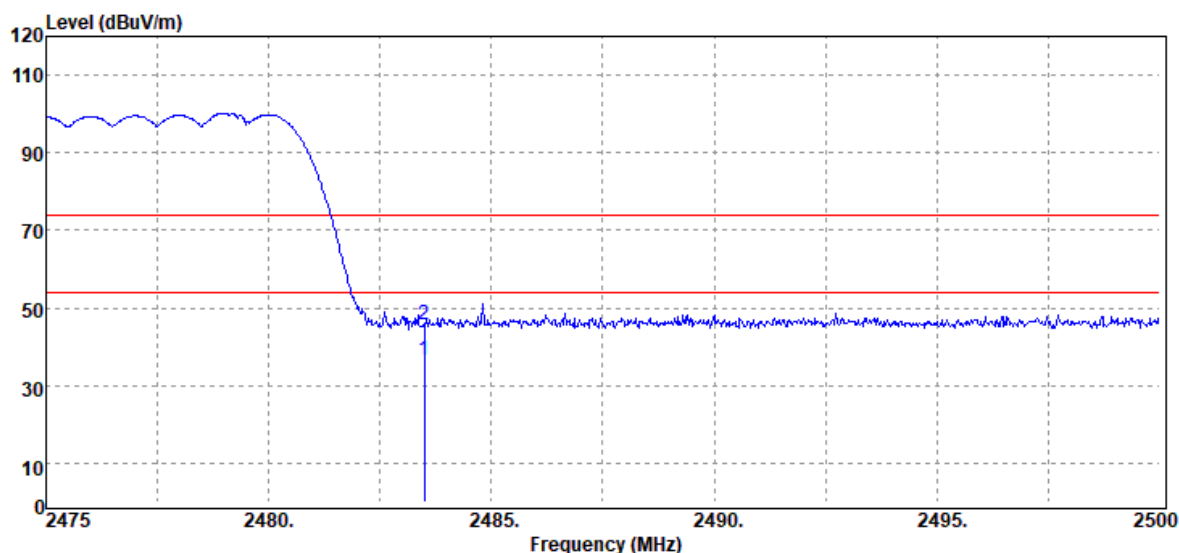
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Project Number :T190321W03
Operation Band :BT EDR Hopping
Frequency :2480 MHz
Operation Mode :BE CH High
EUT Pol. :H Plan

Test Date :2019-06-07
Temp./Humi. :23/52
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2483.50	Average	39.45	-2.83	36.62	54.00	-17.38
2483.50	Peak	48.49	-2.83	45.66	74.00	-28.34

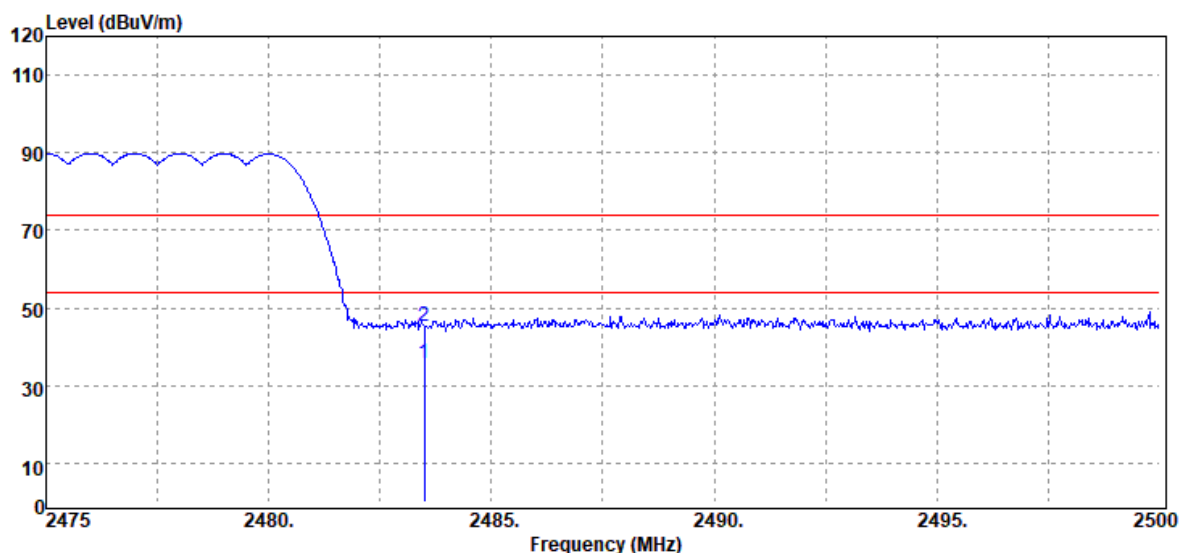
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Project Number :T190321W03
Operation Band :BT EDR Hopping
Frequency :2480 MHz
Operation Mode :BE CH High
EUT Pol. :H Plan

Test Date :2019-06-07
Temp./Humi. :23/52
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	38.57	-2.83	35.74	54.00	-18.26
2483.50	Peak	48.17	-2.83	45.34	74.00	-28.66

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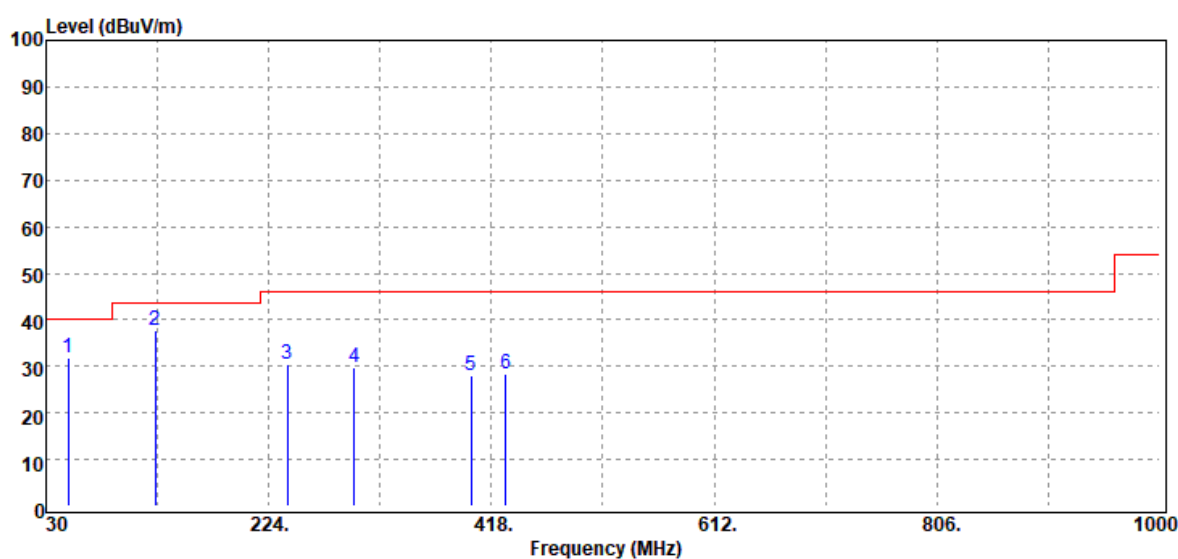
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Radiated Spurious Emission Measurement Result: Frequency from 30MHz to 1GHz

PCB Antenna

Project Number :T190321W03
Operation Band :BT EDR
Frequency :2441 MHz
Operation Mode :Tx CH Mid
EUT Pol. :H Plan

Test Date :2019-06-11
Temp./Humi. :23/52
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
49.40	Peak	46.68	-14.98	31.70	40.00	-8.30
125.06	Peak	46.39	-8.80	37.59	43.50	-5.91
240.49	Peak	40.64	-10.25	30.39	46.00	-15.61
298.69	Peak	37.86	-8.27	29.59	46.00	-16.41
400.54	Peak	33.73	-5.64	28.09	46.00	-17.91
430.61	Peak	32.99	-4.47	28.52	46.00	-17.48

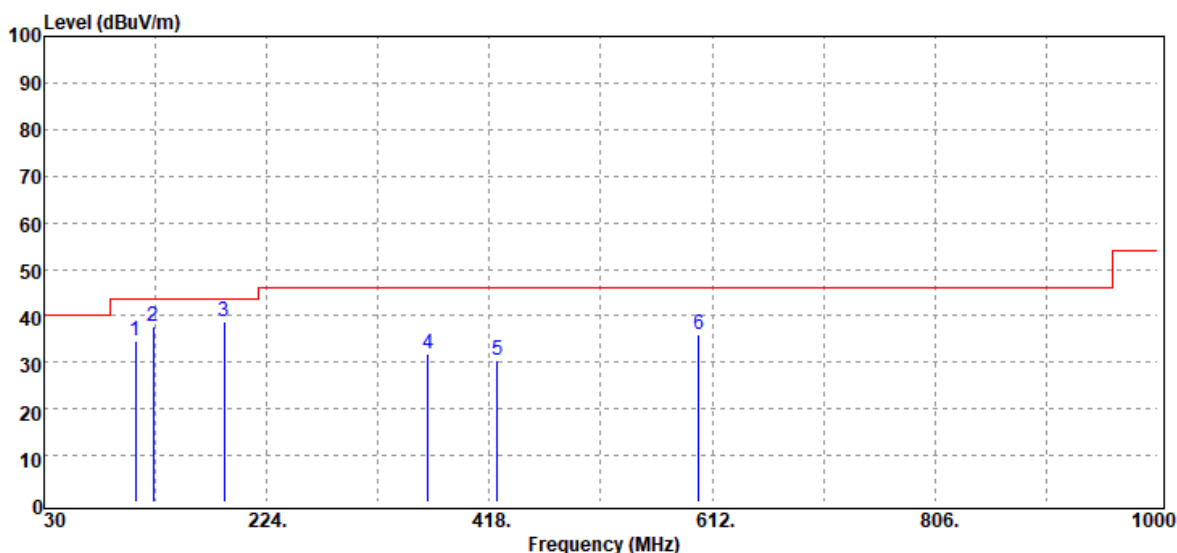
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Project Number :T190321W03
Operation Band :BT EDR
Frequency :2441 MHz
Operation Mode :Tx CH Mid
EUT Pol. :H Plan

Test Date :2019-06-11
Temp./Humi. :23/52
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
109.54	Peak	44.68	-10.16	34.52	43.50	-8.98
125.06	Peak	46.63	-8.80	37.83	43.50	-5.67
187.14	Peak	49.66	-10.98	38.68	43.50	-4.82
364.65	Peak	38.27	-6.58	31.69	46.00	-14.31
424.79	Peak	35.11	-4.51	30.60	46.00	-15.40
600.36	Peak	37.67	-1.65	36.02	46.00	-9.98

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Dipole Antenna

Project Number :T190321W03

Test Date :2019-06-07

Operation Band :BT EDR

Temp./Humi. :23/52

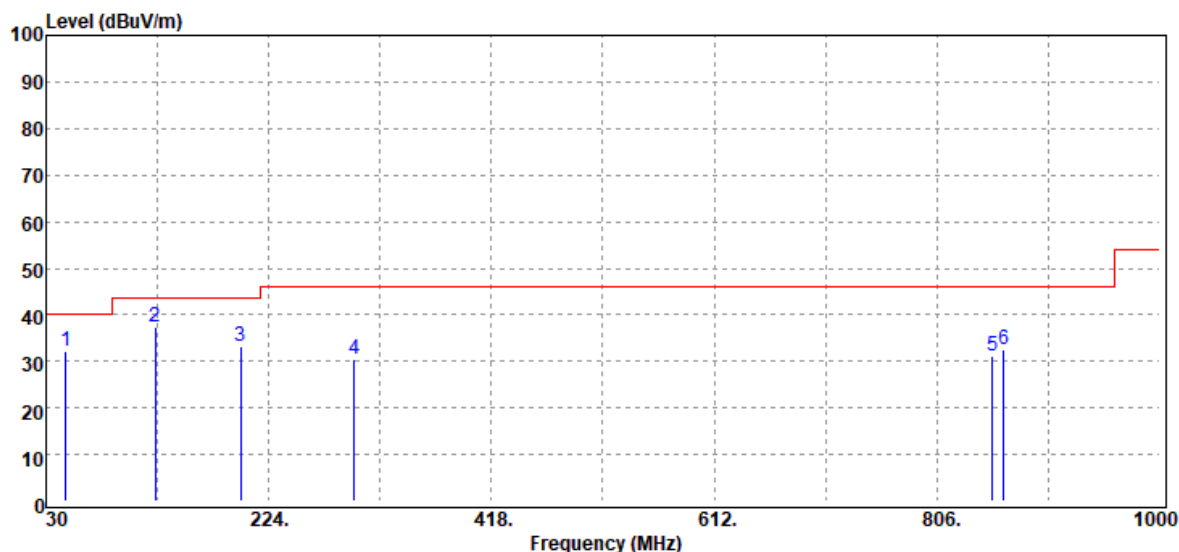
Frequency :2441 MHz

Antenna Pol. :VERTICAL

Operation Mode :Tx CH Mid

Engineer :Kane

EUT Pol. :H Plan



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
47.46	Peak	46.61	-14.26	32.35	40.00	-7.65
125.06	Peak	46.17	-8.80	37.37	43.50	-6.13
199.75	Peak	42.62	-9.29	33.33	43.50	-10.17
298.69	Peak	38.66	-8.27	30.39	46.00	-15.61
854.50	Peak	28.24	2.86	31.10	46.00	-14.90
864.20	Peak	29.54	2.96	32.50	46.00	-13.50

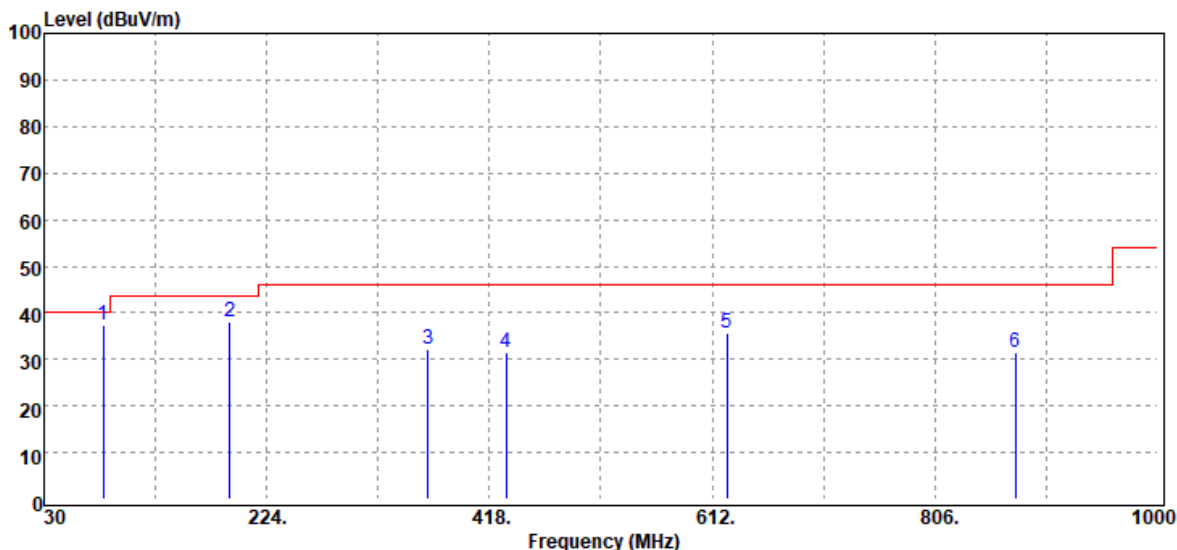
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Project Number :T190321W03
Operation Band :BT EDR
Frequency :2441 MHz
Operation Mode :Tx CH Mid
EUT Pol. :H Plan

Test Date :2019-06-07
Temp./Humi. :23/52
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
81.41	Peak	52.91	-15.43	37.48	40.00	-2.52
191.99	Peak	48.67	-10.55	38.12	43.50	-5.38
364.65	Peak	38.83	-6.58	32.25	46.00	-13.75
432.55	Peak	35.77	-4.32	31.45	46.00	-14.55
624.61	Peak	36.19	-0.55	35.64	46.00	-10.36
875.84	Peak	28.05	3.30	31.35	46.00	-14.65

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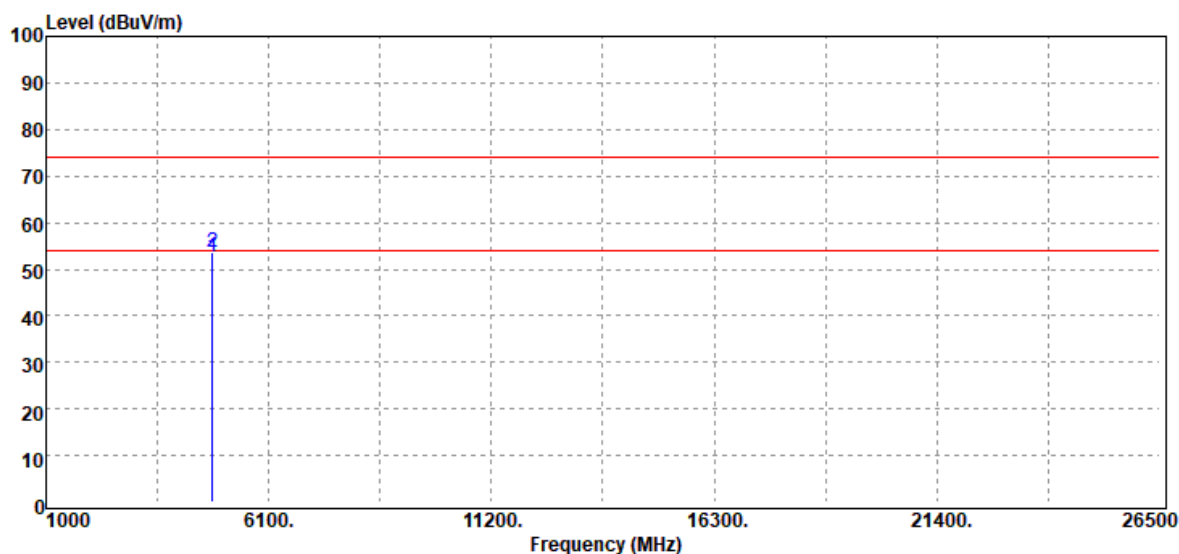
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Frequency above 1GHz

PCB Antenna

Project Number :T190321W03
Operation Band :BT EDR
Frequency :2402 MHz
Operation Mode :Tx CH Low
EUT Pol. :H Plan

Test Date :2019-06-07
Temp./Humi. :21.5/57
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.00	Average	49.65	3.05	52.70	54.00	-1.30
4804.00	Peak	50.68	3.05	53.73	74.00	-20.27

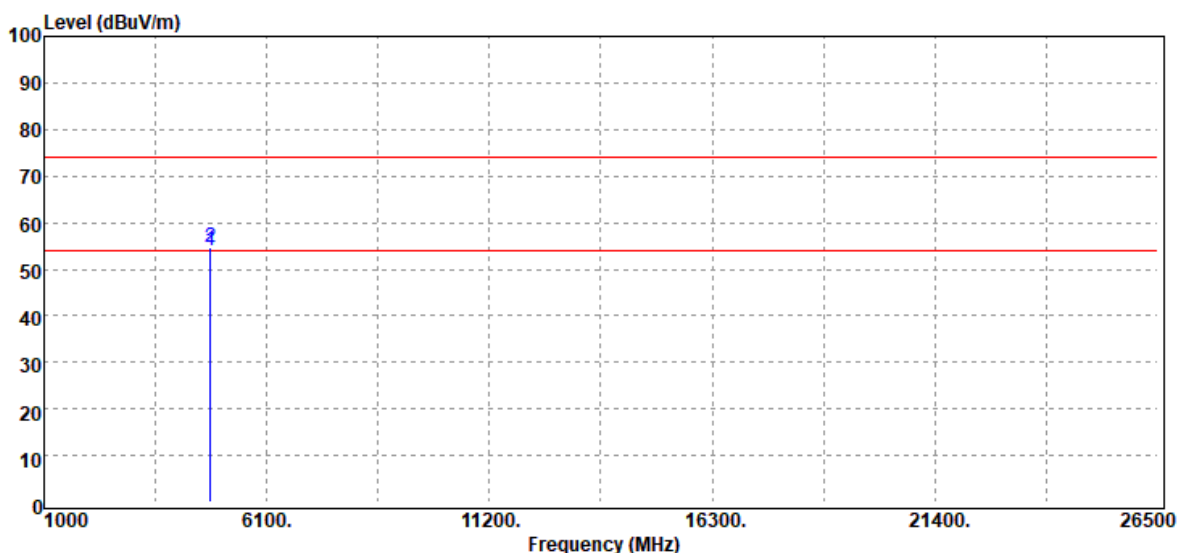
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Project Number :T190321W03
Operation Band :BT EDR
Frequency :2402 MHz
Operation Mode :Tx CH Low
EUT Pol. :H Plan

Test Date :2019-06-07
Temp./Humi. :21.5/57
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.00	Average	50.79	3.05	53.84	54.00	-0.16
4804.00	Peak	51.55	3.05	54.60	74.00	-19.40

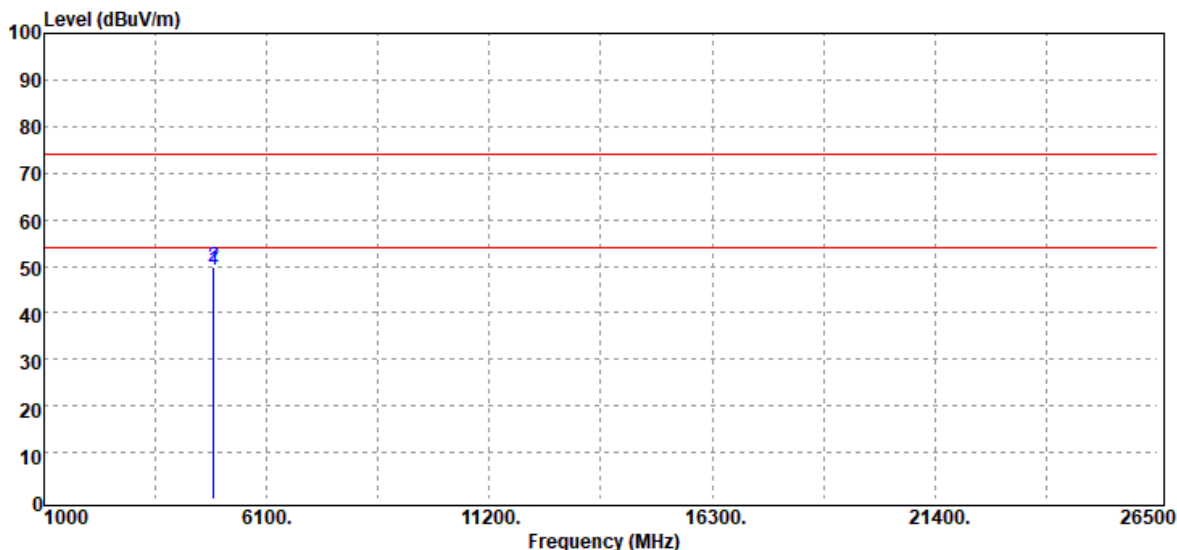
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Project Number :T190321W03
Operation Band :BT EDR
Frequency :2441 MHz
Operation Mode :Tx CH Mid
EUT Pol. :H Plan

Test Date :2019-06-07
Temp./Humi. :21.5/57
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4882.00	Average	45.88	3.38	49.26	54.00	-4.74
4882.00	Peak	46.61	3.38	49.99	74.00	-24.01

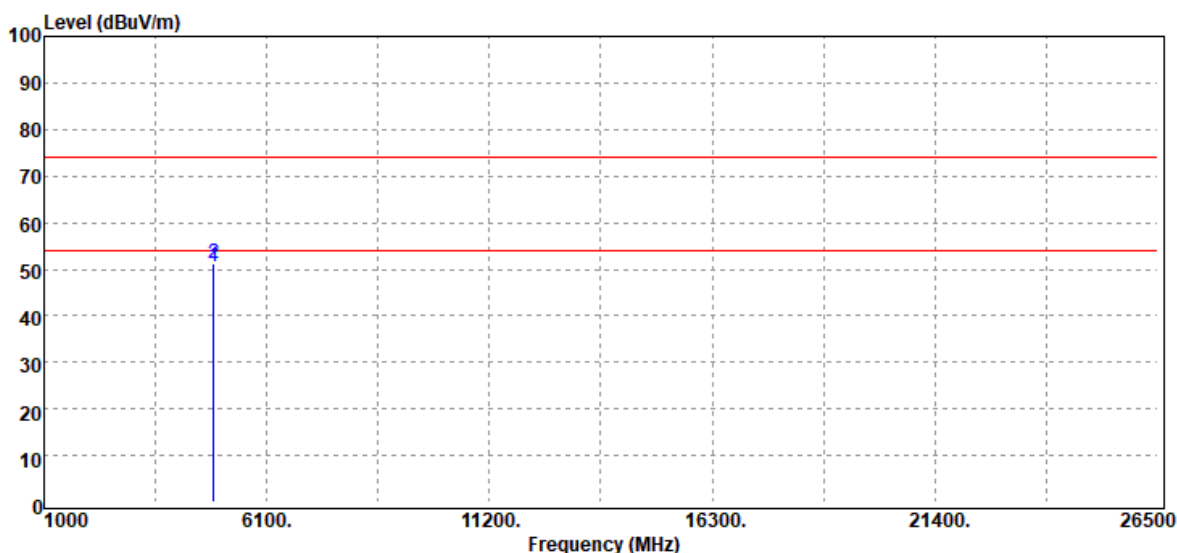
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Project Number :T190321W03
Operation Band :BT EDR
Frequency :2441 MHz
Operation Mode :Tx CH Mid
EUT Pol. :H Plan

Test Date :2019-06-07
Temp./Humi. :21.5/57
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4882.00	Average	47.22	3.38	50.60	54.00	-3.40
4882.00	Peak	47.97	3.38	51.35	74.00	-22.65

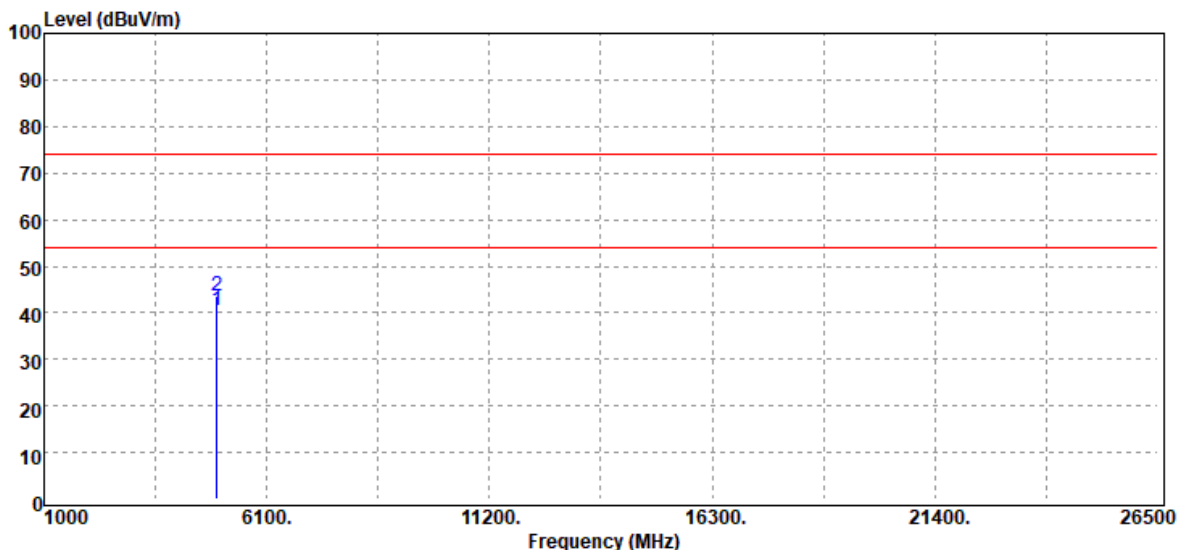
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Project Number : T190321W03
Operation Band : BT EDR
Frequency : 2480 MHz
Operation Mode : Tx CH High
EUT Pol. : H Plan

Test Date : 2019-06-07
Temp./Humi. : 21.5/57
Antenna Pol. : VERTICAL
Engineer : Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.00	Average	36.49	4.06	40.55	54.00	-13.45
4960.00	Peak	39.54	4.06	43.60	74.00	-30.40

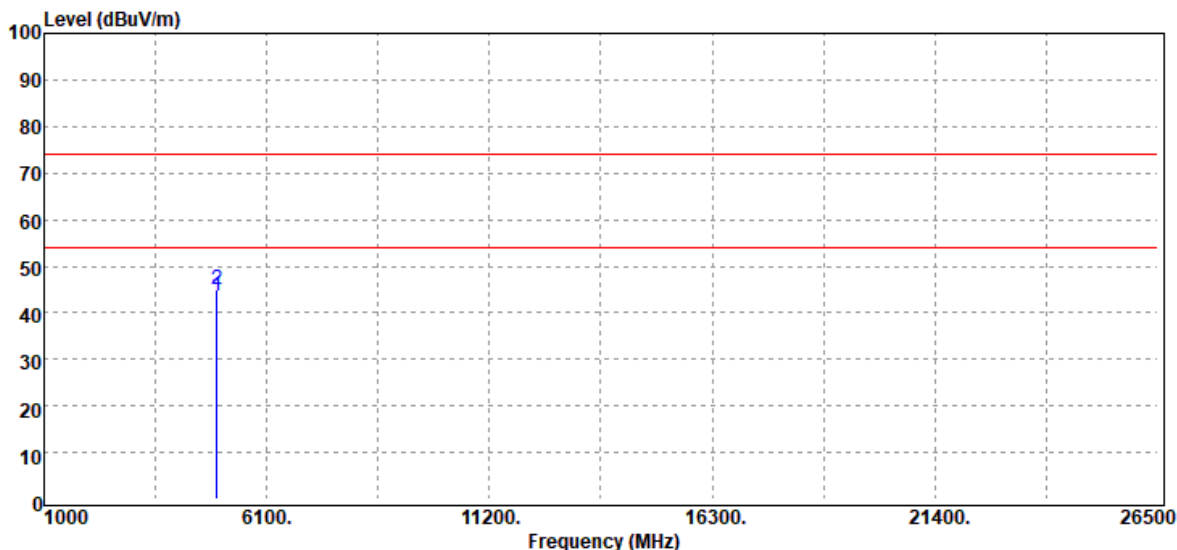
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Project Number :T190321W03
Operation Band :BT EDR
Frequency :2480 MHz
Operation Mode :Tx CH High
EUT Pol. :H Plan

Test Date :2019-06-07
Temp./Humi. :21.5/57
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.00	Average	39.65	4.06	43.71	54.00	-10.29
4960.00	Peak	40.80	4.06	44.86	74.00	-29.14

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Dipole Antenna

Project Number :T190321W03

Test Date :2019-06-07

Operation Band :BT EDR

Temp./Humi. :23/52

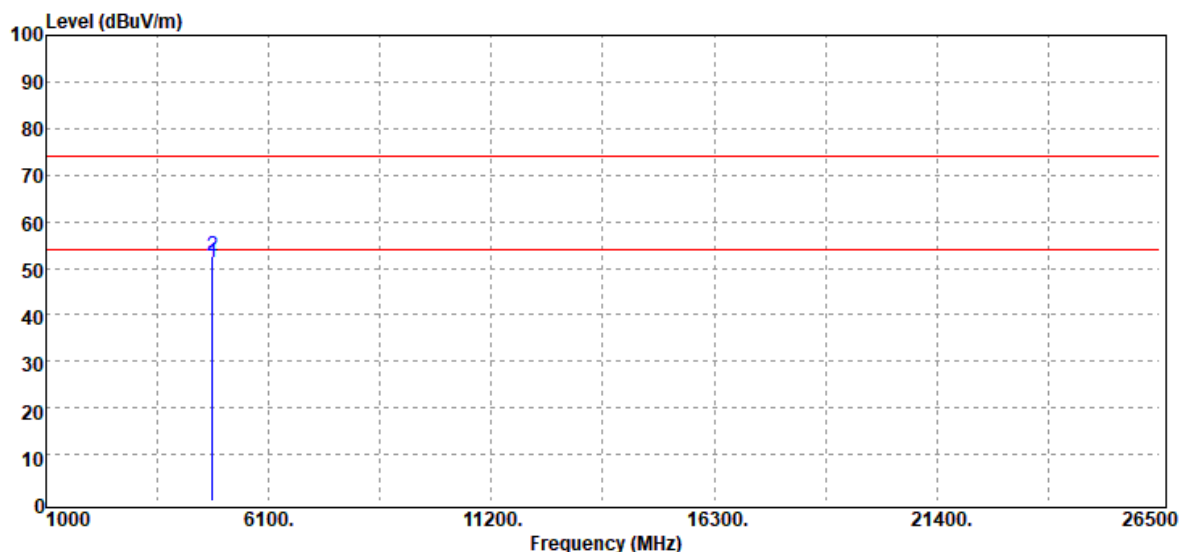
Frequency :2402 MHz

Antenna Pol. :VERTICAL

Operation Mode :Tx CH Low

Engineer :Kane

EUT Pol. :H Plan



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4804.00	Average	48.09	3.05	51.14	54.00	-2.86
4804.00	Peak	49.37	3.05	52.42	74.00	-21.58

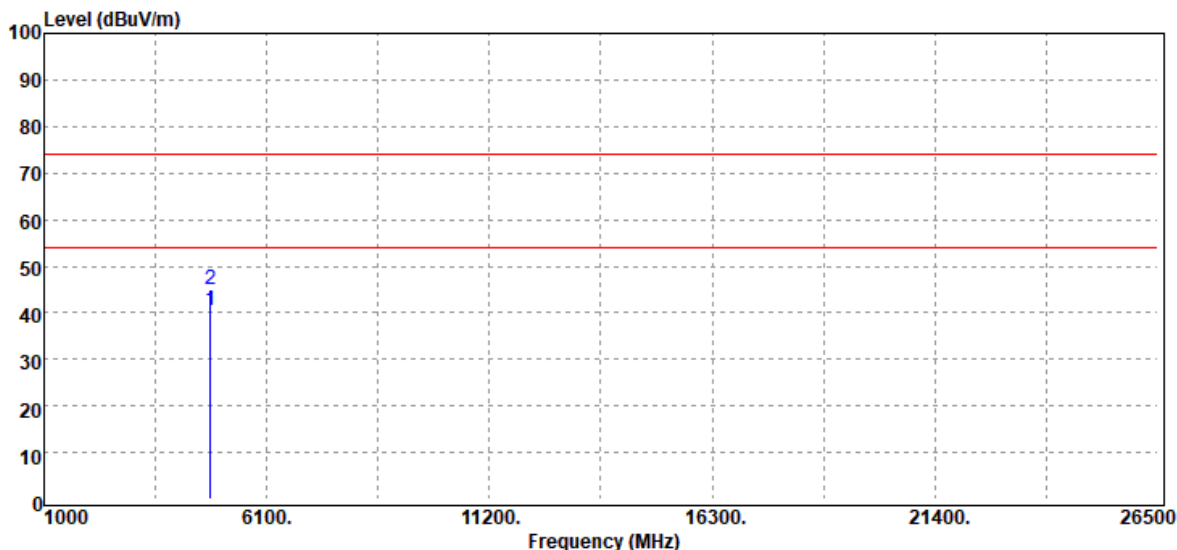
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Project Number :T190321W03
Operation Band :BT EDR
Frequency :2402 MHz
Operation Mode :Tx CH Low
EUT Pol. :H Plan

Test Date :2019-06-07
Temp./Humi. :23/52
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.00	Average	37.28	3.05	40.33	54.00	-13.67
4804.00	Peak	42.08	3.05	45.13	74.00	-28.87

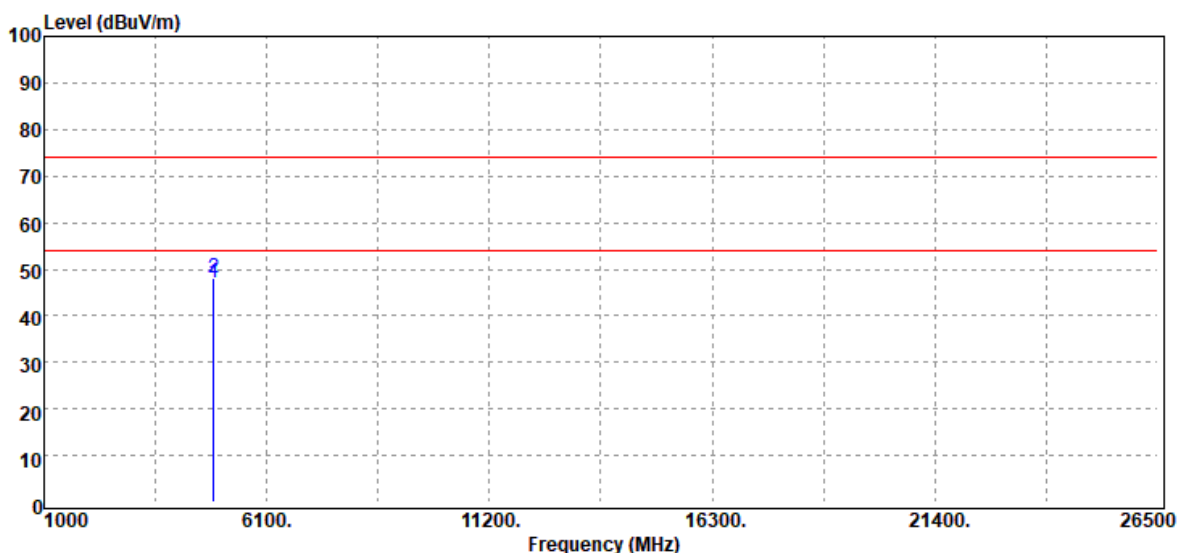
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Project Number :T190321W03
Operation Band :BT EDR
Frequency :2441 MHz
Operation Mode :Tx CH Mid
EUT Pol. :H Plan

Test Date :2019-06-07
Temp./Humi. :23/52
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4882.00	Average	43.84	3.38	47.22	54.00	-6.78
4882.00	Peak	44.76	3.38	48.14	74.00	-25.86

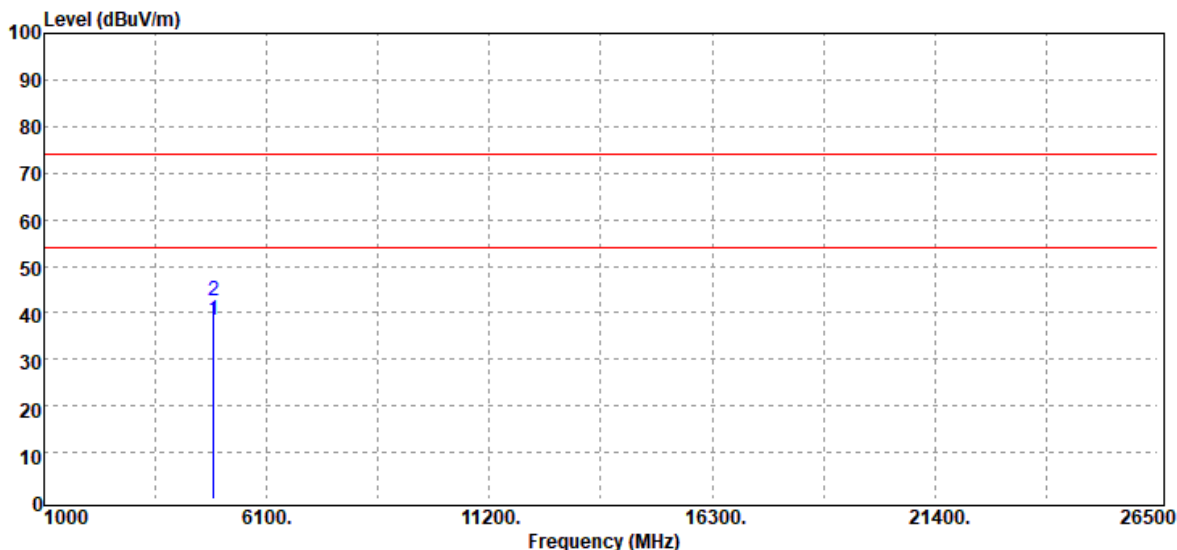
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Project Number :T190321W03
Operation Band :BT EDR
Frequency :2441 MHz
Operation Mode :Tx CH Mid
EUT Pol. :H Plan

Test Date :2019-06-07
Temp./Humi. :23/52
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4882.00	Average	35.13	3.38	38.51	54.00	-15.49
4882.00	Peak	39.10	3.38	42.48	74.00	-31.52

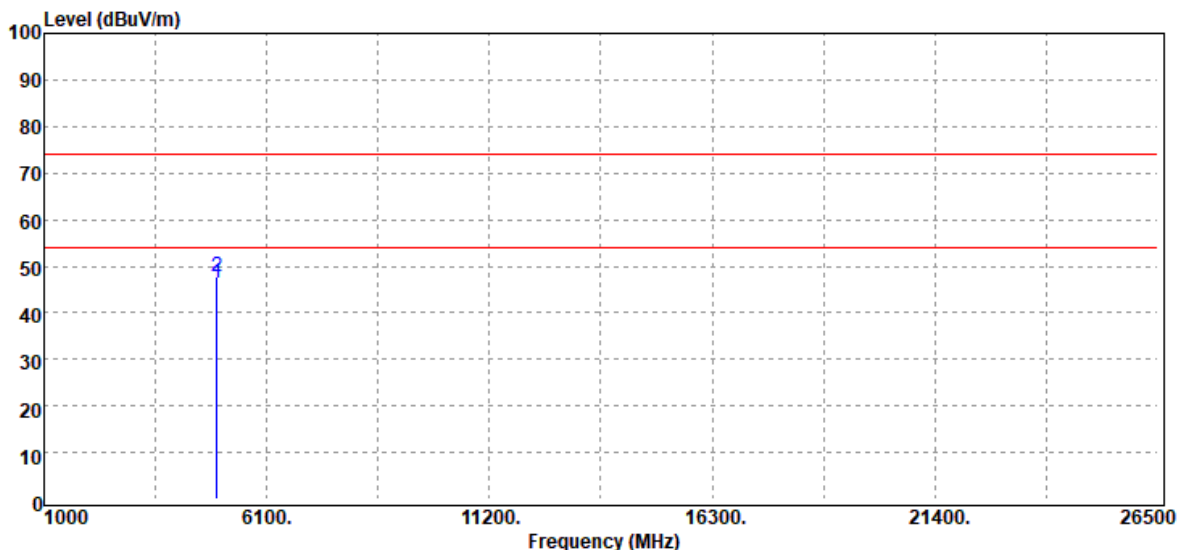
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Project Number :T190321W03
Operation Band :BT EDR
Frequency :2480 MHz
Operation Mode :Tx CH High
EUT Pol. :H Plan

Test Date :2019-06-07
Temp./Humi. :23/52
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.00	Average	42.42	4.06	46.48	54.00	-7.52
4960.00	Peak	43.84	4.06	47.90	74.00	-26.10

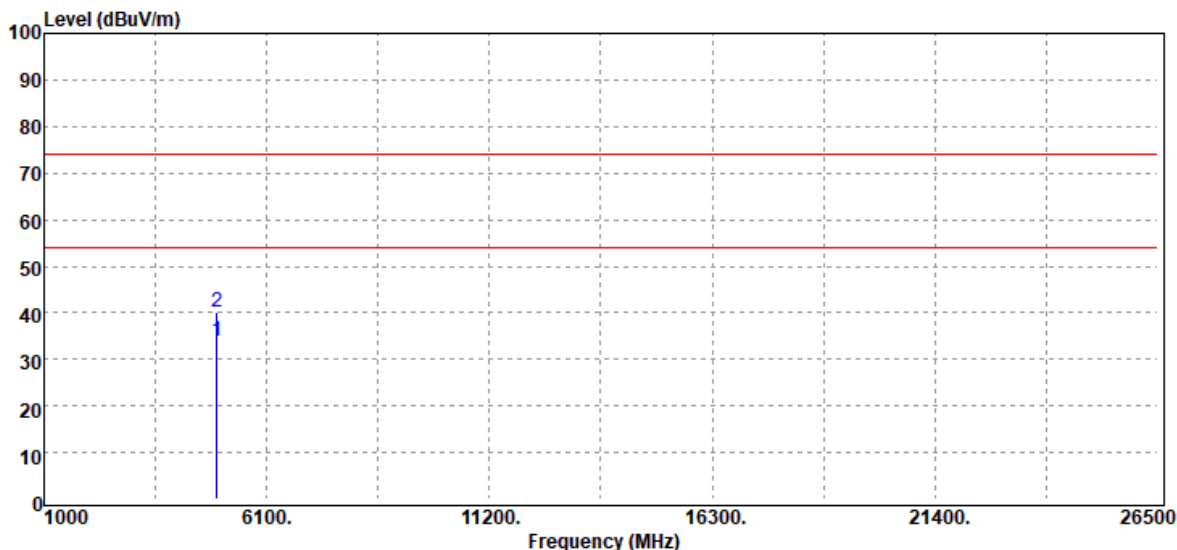
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Project Number :T190321W03
Operation Band :BT EDR
Frequency :2480 MHz
Operation Mode :Tx CH High
EUT Pol. :H Plan

Test Date :2019-06-07
Temp./Humi. :23/52
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.00	Average	29.92	4.06	33.98	54.00	-20.02
4960.00	Peak	36.23	4.06	40.29	74.00	-33.71

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11 FREQUENCY SEPARATION

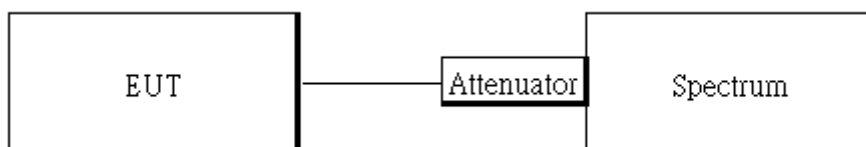
11.1 Standard Applicable

Frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25 kHz or the $2/3 \times 20\text{dB}$ bandwidth of the hopping channel, whichever is greater.

11.2 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/22/2019	04/21/2020
DC Block	Mini-Circuits	BLK-18-S+	31129(1)	02/26/2019	02/25/2020
Attenuator	Mini-Circuit	BW-S10W2+	3	02/26/2019	02/25/2020

11.3 Test Set-up



11.4 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10:2013.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set center frequency of spectrum analyzer = middle of hopping channel.
5. Set the spectrum analyzer as RBW, VBW=100 kHz, Adjust Span to 5MHz, Sweep = auto.
6. Max hold. Mark 3 Peaks of hopping channel and record the 3 peaks frequency.

11.5 Measurement Result

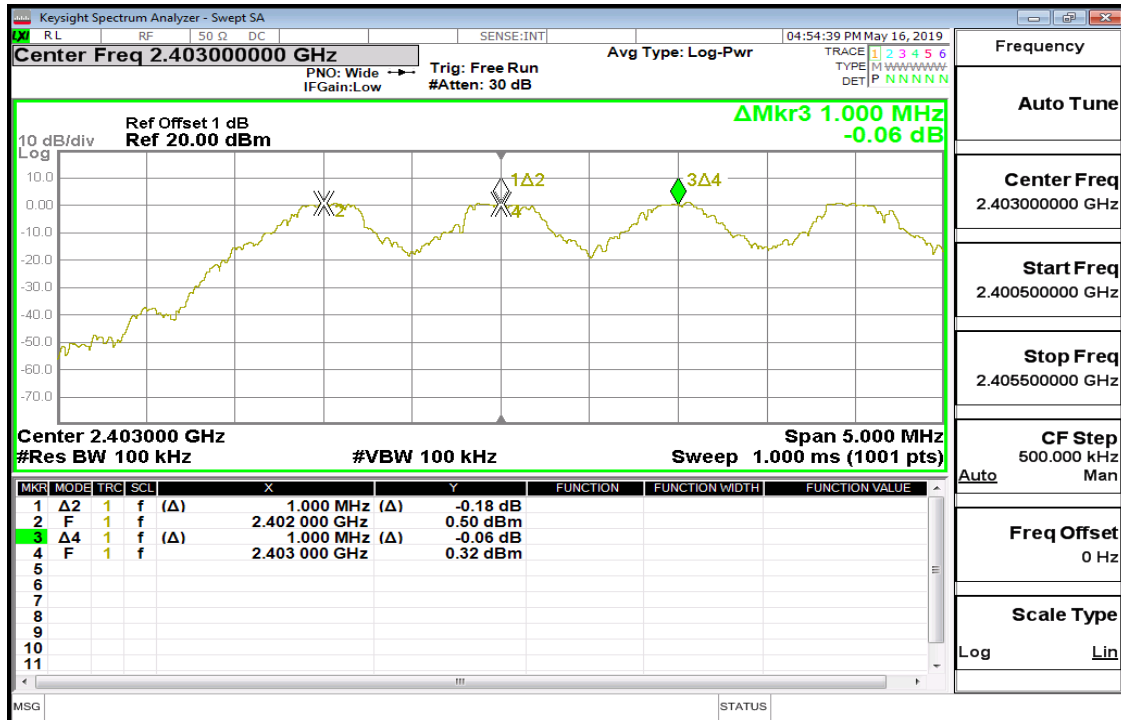
Channel separation (MHz)	Limit	Result
1	$\geq 25\text{ kHz}$ or $2/3\text{ times } 20\text{dB bandwidth}$	PASS

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Frequency Separation Test Data



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12 NUMBER OF HOPPING FREQUENCY

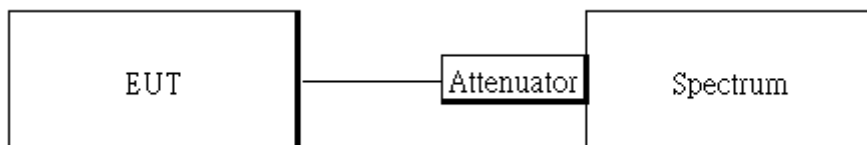
12.1 Standard Applicable

Frequency hopping systems operating in the 2400MHz-2483.5 MHz bands shall use at least 15 hopping frequencies.

12.2 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/22/2019	04/21/2020
DC Block	Mini-Circuits	BLK-18-S+	31129(1)	02/26/2019	02/25/2020
Attenuator	Mini-Circuit	BW-S10W2+	3	02/26/2019	02/25/2020

12.3 Test Set-up



12.4 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10:2013.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set spectrum analyzer Start=2400MHz, Stop = 2483.5MHz, Sweep = auto.
5. Set the spectrum analyzer as RBW=430kHz, VBW=1.5MHz., Detector = Peak
6. Max hold, view and count how many channel in the band.

12.5 Measurement Result

Tabular Data of Total Channel Number

	Channel Number	Limit
2.4 GHz – 2.441 GHz	40	>15
2.441 GHz – 2.4835 GHz	39	
2.4 GHz ~2.4835 GHz	(40+39) = 79	

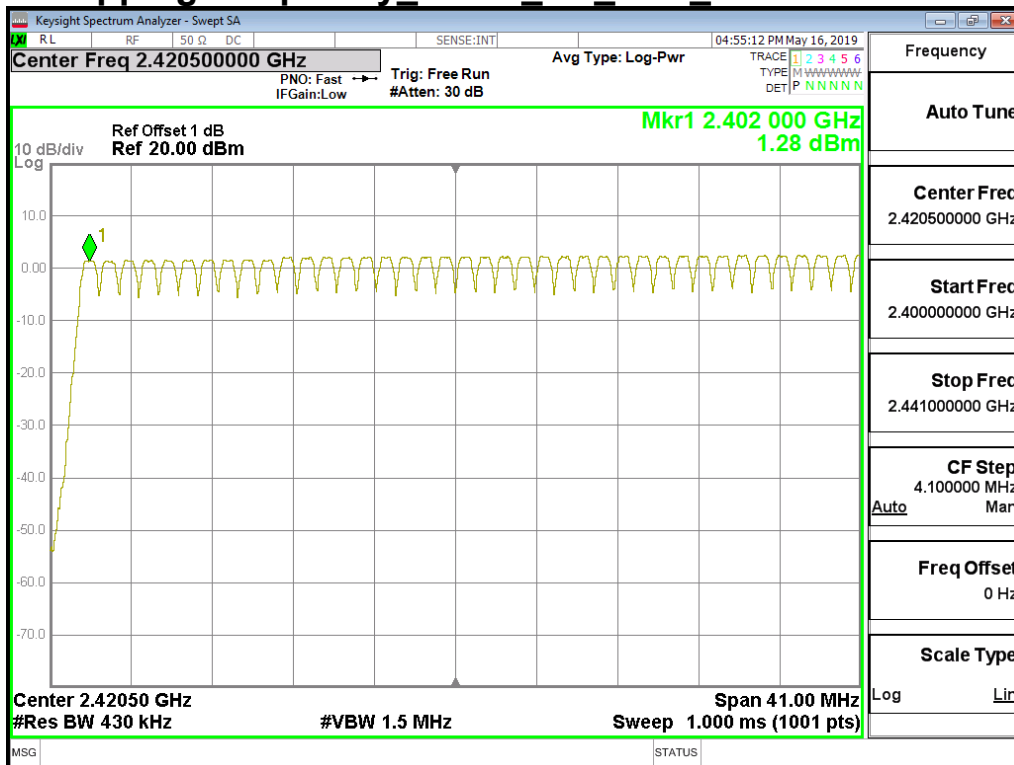
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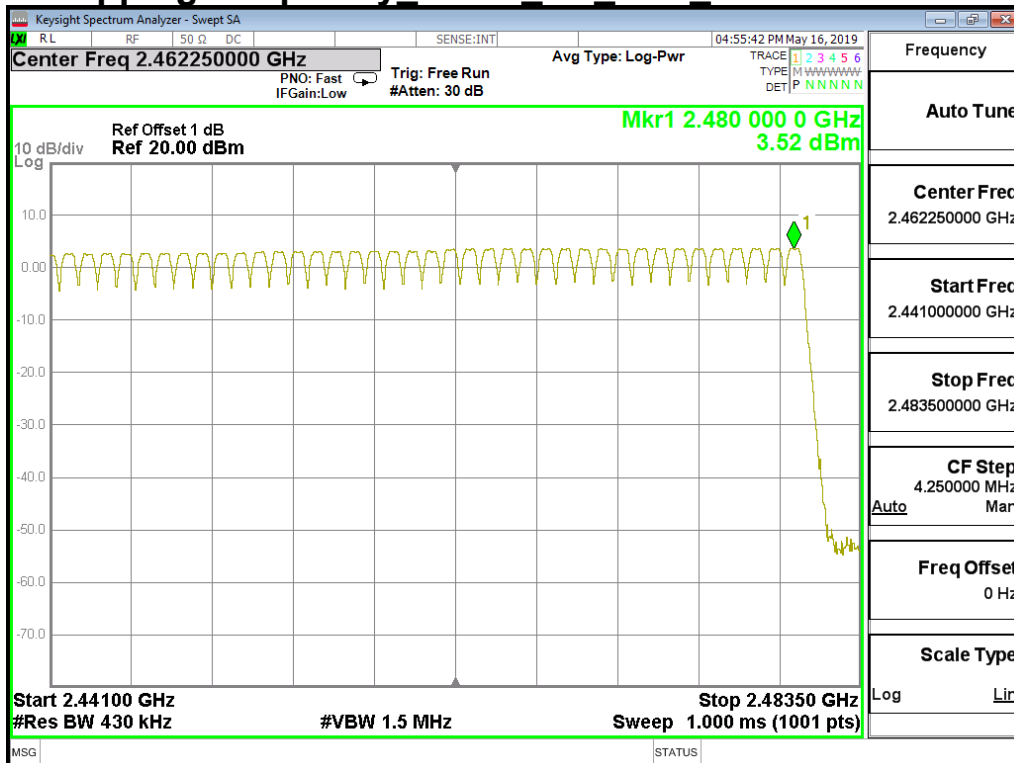
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Channel Number

Hopping Frequency_GFSK_1M_DH5_2400-2441 MHz



Hopping Frequency_GFSK_1M_DH5_2441-2480 MHz



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13 TIME OF OCCUPANCY (DWELL TIME)

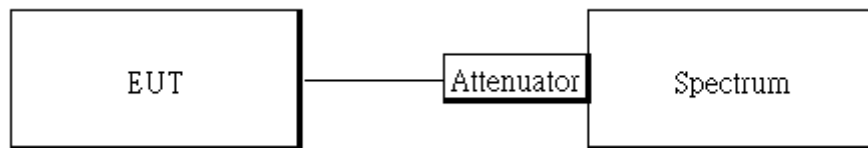
13.1 Standard Applicable

Frequency hopping systems operating in the 2400MHz-2483.5MHz. The average time of occupancy on any frequency shall not greater than 0.4 s within period of 0.4 seconds multiplied by the number of hopping channel employed.

13.2 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/22/2019	04/21/2020
DC Block	Mini-Circuits	BLK-18-S+	31129(1)	02/26/2019	02/25/2020
Attenuator	Mini-Circuit	BW-S10W2+	3	02/26/2019	02/25/2020

13.3 Test Set-up



13.4 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C6310:2015.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set center frequency of spectrum analyzer = operating frequency.
5. Set the spectrum analyzer as RBW, VBW=1MHz, 3MHz, Span = 0Hz , Detector = Peak, Adjust Sweep = 2~8ms.
6. Repeat above procedures until all frequency of the interest measured were complete.

Formula Deduced: time occupancy of one time slot X Hopping rate / total slot in one channel / total channel that hops X period of working channels.

Where, standard hopping rate is 1600 hops/s, slot in one channel for DH1, DH3, and DH5 is 2, 4, and 6, respectively.

DH1 consists of single time slot of the uplink, and one slot of the downlink Total Slot: 2

DH3 consists of three time slot of the uplink, and one slot of the downlink. Total Slot: 4

DH5 consists of five time slot of the uplink, and one slot of the downlink. Total Slot: 6

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In AFH mode, hopping rate is 800 hop/s with 6 slots in 20 hopping channels with channel hopping rate $(800 / 6 / 20)$ in Occupancy Time Limit $(0.4 * 20)$ (S), Hop Over Occupancy Time comes to $(800 / 6 / 20) * (0.4 * 20) = 53.33$

Note: the result of the complete test default channel at 1Mbps is recorded on the test report, 2Mbps, and 3Mbps only records the measurement result at middle channel that reveals no much deviation.

13.5 Tabular Result of the Measurement GFSK (1Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)	1/T (kHz)	VBW setting (kHz)
Low	DH1	124.80	400ms	2.56	3.00
	DH3	264.00	400ms	0.61	1.00
	DH5	307.20	400ms	0.35	1.00
Mid	DH1	124.80	400ms	2.56	3.00
	DH3	262.40	400ms	0.61	1.00
	DH5	308.80	400ms	0.35	1.00
High	DH1	124.80	400ms	2.56	3.00
	DH3	264.00	400ms	0.61	1.00
	DH5	307.20	400ms	0.00	1.00

$\pi/4$ DQPSK (2Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)	1/T (kHz)	VBW setting (kHz)
Mid	2DH1	124.80	400ms	2.56	3.00
	2DH3	262.40	400ms	0.61	1.00
	2DH5	308.80	400ms	0.35	1.00

8-DPSK (3Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)	1/T (kHz)	VBW setting (kHz)
Mid	3DH1	124.80	400ms	2.56	3.00
	3DH3	262.40	400ms	0.61	1.00
	3DH5	308.80	400ms	0.35	1.00

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A period time = 0.4 (s) * 79 = 31.6 (s)

GFSK (1Mbps):

CH Low	DH1 time slot =	0.390	*	(1600/2/79)	*	31.6	=	124.80	(ms)
	DH3 time slot =	1.650	*	(1600/4/79)	*	31.6	=	264.00	(ms)
	DH5 time slot =	2.880	*	(1600/6/79)	*	31.6	=	307.20	(ms)
CH Mid	DH1 time slot =	0.390	*	(1600/2/79)	*	31.6	=	124.80	(ms)
	DH3 time slot =	1.640	*	(1600/4/79)	*	31.6	=	262.40	(ms)
	DH5 time slot =	2.895	*	(1600/6/79)	*	31.6	=	308.80	(ms)
CH High	DH1 time slot =	0.390	*	(1600/2/79)	*	31.6	=	124.80	(ms)
	DH3 time slot =	1.650	*	(1600/4/79)	*	31.6	=	264.00	(ms)
	DH5 time slot =	2.880	*	(1600/6/79)	*	31.6	=	307.20	(ms)

$\pi/4$ -DQPSK (2Mbps):

CH Mid	2DH1 time slot =	0.390	*	(1600/2/79)	*	31.6	=	124.80	(ms)
	2DH3 time slot =	1.640	*	(1600/4/79)	*	31.6	=	262.40	(ms)
	2DH5 time slot =	2.895	*	(1600/6/79)	*	31.6	=	308.80	(ms)

8-DPSK (3Mbps):

CH Mid	3DH1 time slot =	0.390	*	(1600/2/79)	*	31.6	=	124.80	(ms)
	3DH3 time slot =	1.640	*	(1600/4/79)	*	31.6	=	262.40	(ms)
	3DH5 time slot =	2.895	*	(1600/6/79)	*	31.6	=	308.80	(ms)

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GFSK (1Mbps) for AFH Mode			
Hopping Channel Number	PACKET TYPE	Measurement Result (ms)	Limit (ms)
20	DH5	153.60	400ms
$\pi/4$ DQPSK (2Mbps) for AFH Mode			
Hopping Channel Number	PACKET TYPE	Measurement Result (ms)	Limit (ms)
20	2DH5	154.40	400ms
8-DPSK (3Mbps) for AFH Mode			
Hopping Channel Number	PACKET TYPE	Measurement Result (ms)	Limit (ms)
20	3DH5	154.40	400ms

GFSK (1Mbps):

$$\text{DH5 time slot} = 2.880 \text{ (ms)} * (800/6/20) * 8 = 153.60 \text{ (ms)}$$

$\pi/4$ -DQPSK (2Mbps):

$$\text{2DH5 time slot} = 2.895 \text{ (ms)} * (800/6/20) * 8 = 154.40 \text{ (ms)}$$

8-DPSK (3Mbps):

$$\text{3DH5 time slot} = 2.895 \text{ (ms)} * (800/6/20) * 8 = 154.40 \text{ (ms)}$$

13.6 Measurement Result

Note: Refer to next page for plots.

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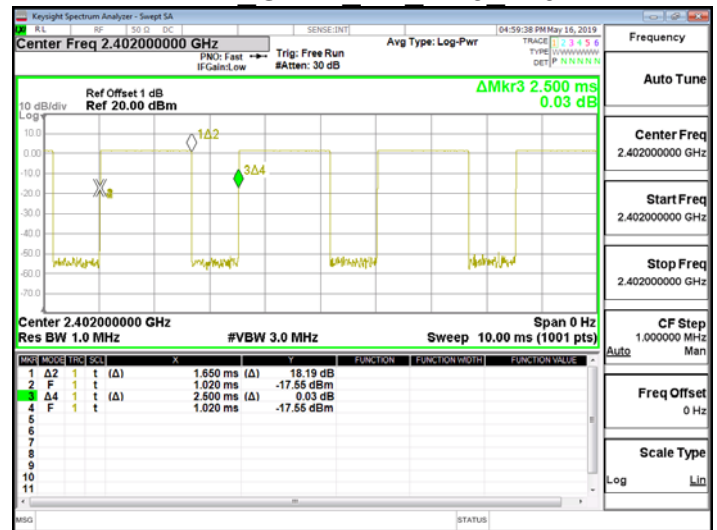
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Dwell Time GFSK 1M DH1 2402MHz



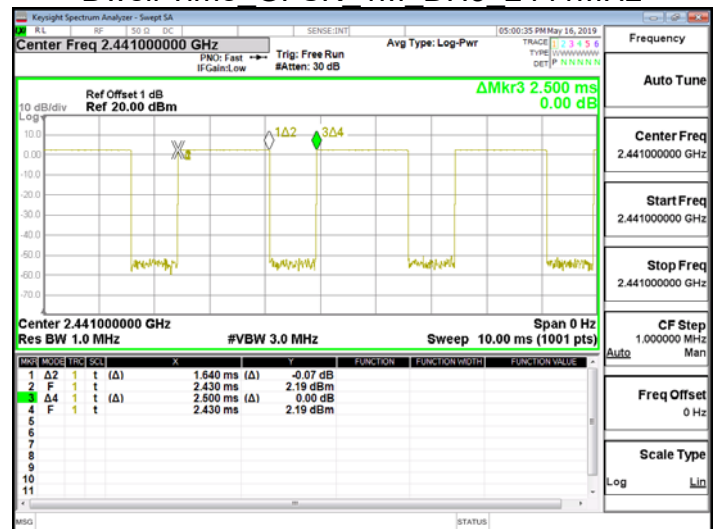
Dwell Time GFSK 1M DH3 2402MHz



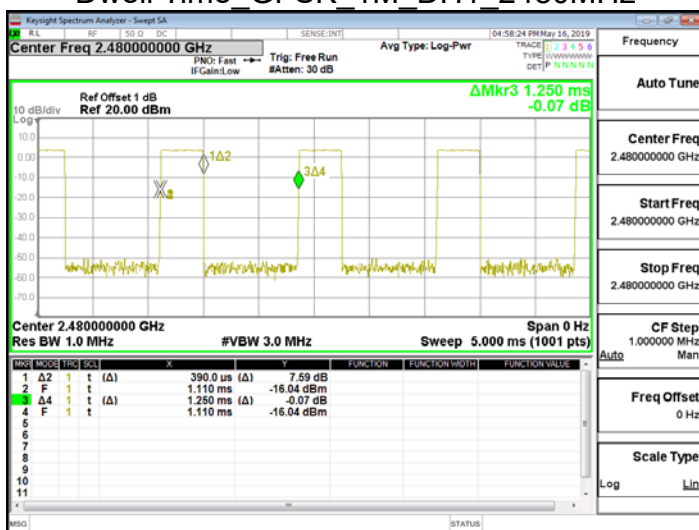
Dwell Time GFSK 1M DH1 2441MHz



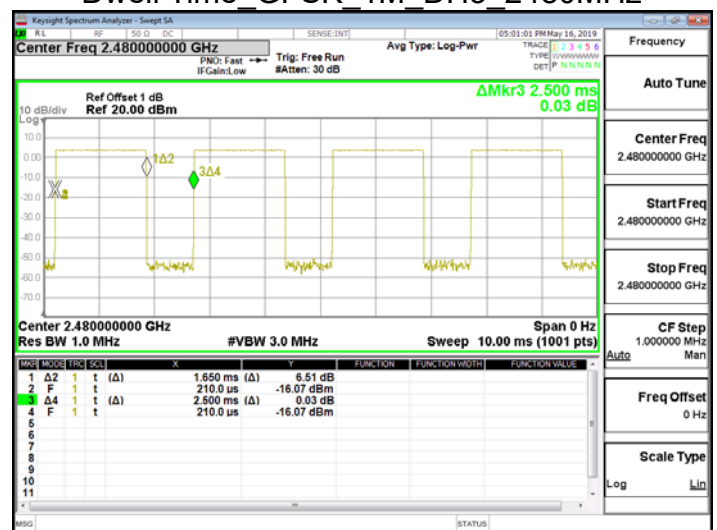
Dwell Time GFSK 1M DH3 2441MHz



Dwell Time GFSK 1M DH1 2480MHz



Dwell Time GFSK 1M DH3 2480MHz

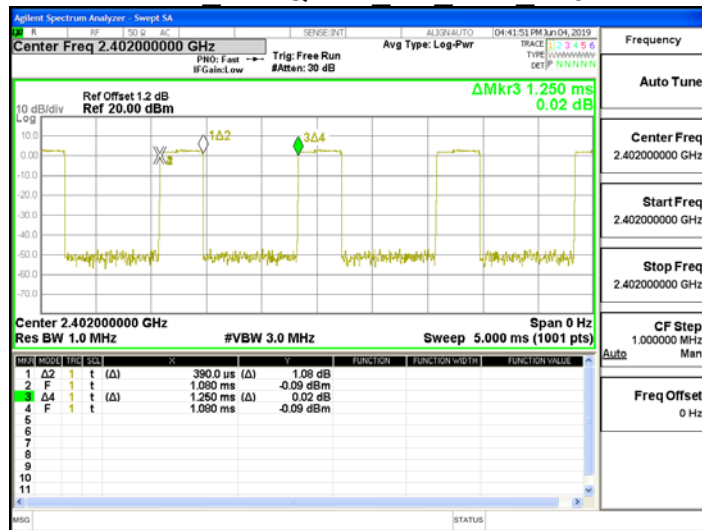


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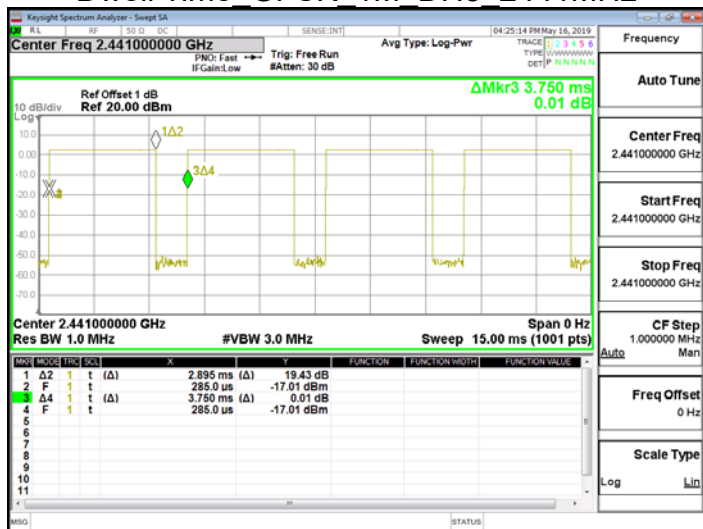
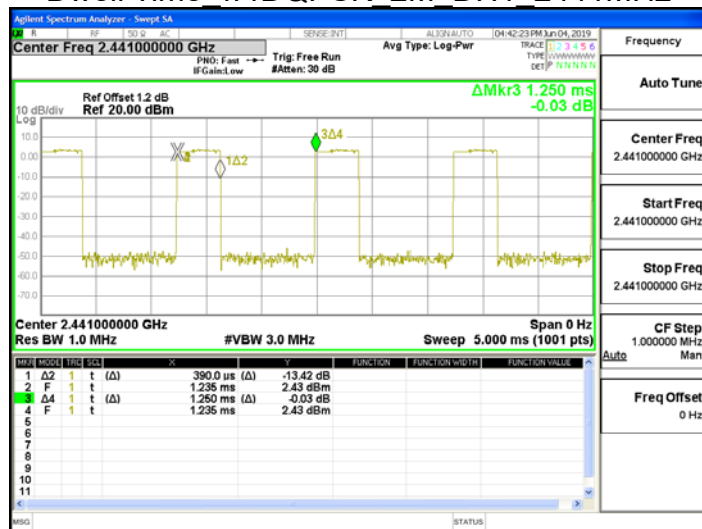
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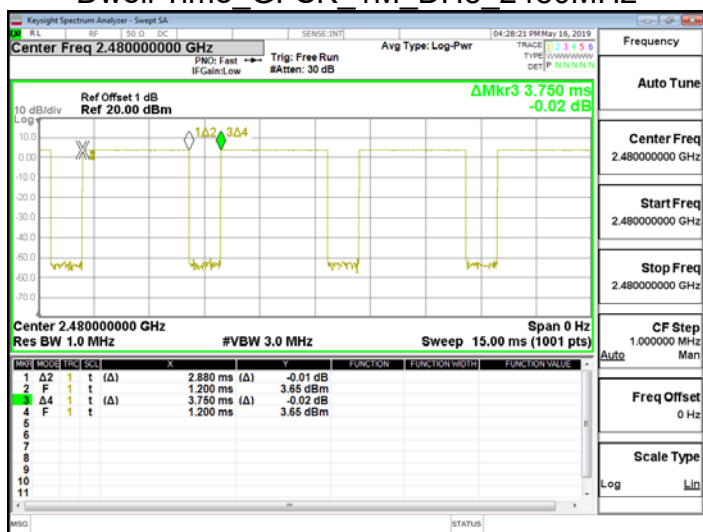
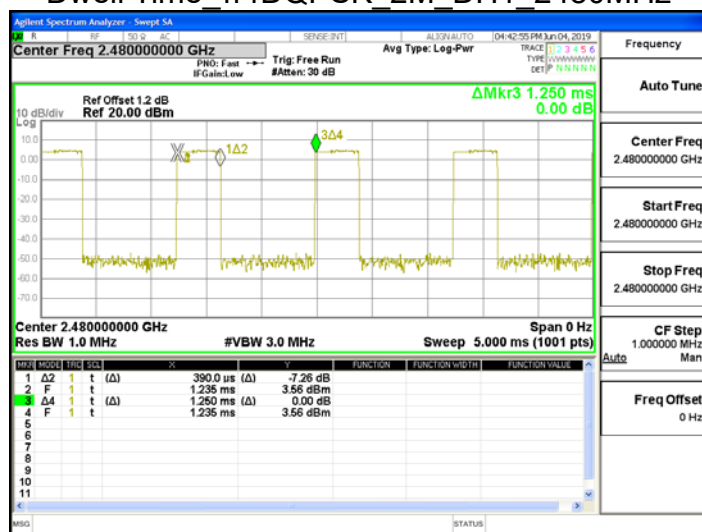
Dwell Time GFSK 1M DH5 2402MHz


Dwell Time π 4DQPSK 2M DH1 2402MHz


Dwell Time GFSK 1M DH5 2441MHz


Dwell Time π 4DQPSK 2M DH1 2441MHz


Dwell Time GFSK 1M DH5 2480MHz

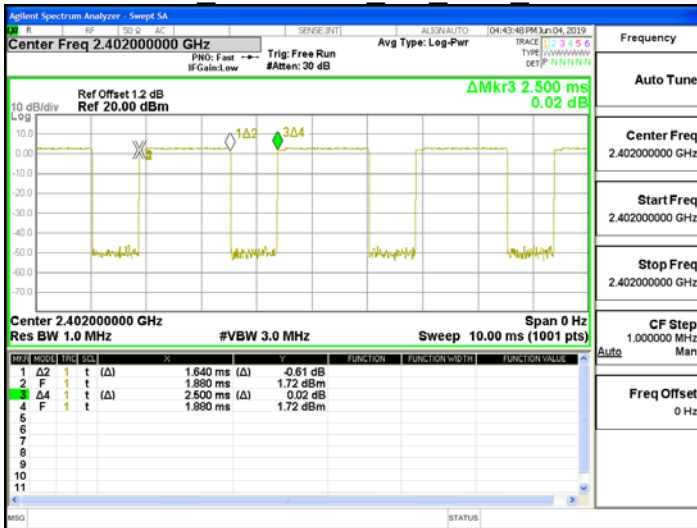

Dwell Time π 4DQPSK 2M DH1 2480MHz


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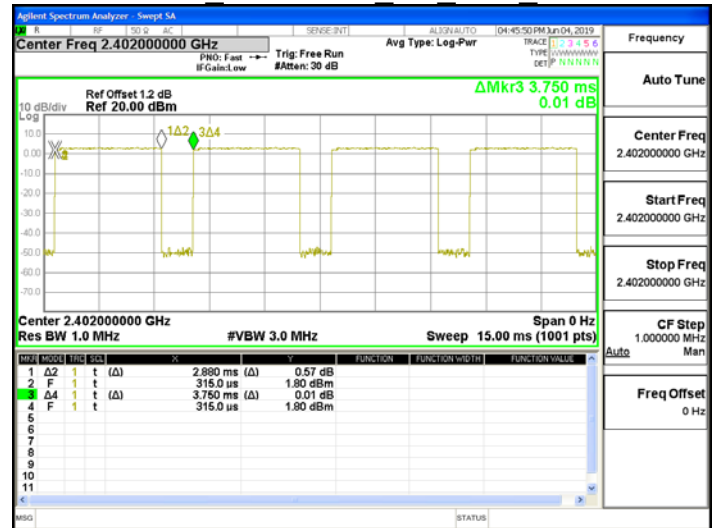
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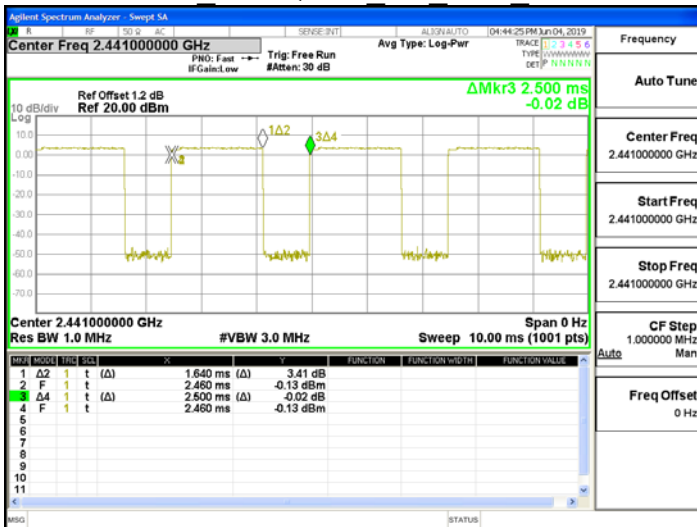
Dwell Time π 4DQPSK 2M DH3 2402MHz



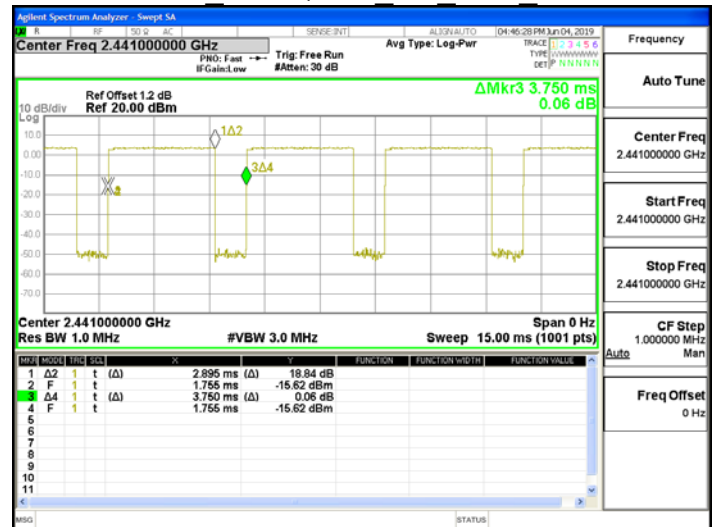
Dwell Time π 4DQPSK 2M DH5 2402MHz



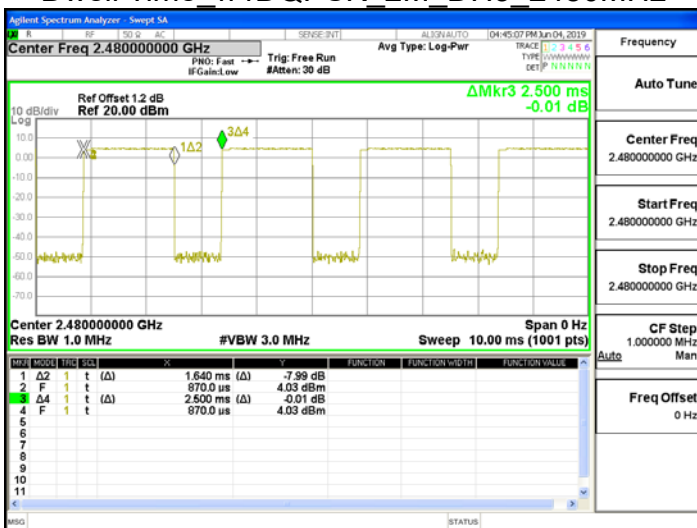
Dwell Time π 4DQPSK 2M DH3 2441MHz



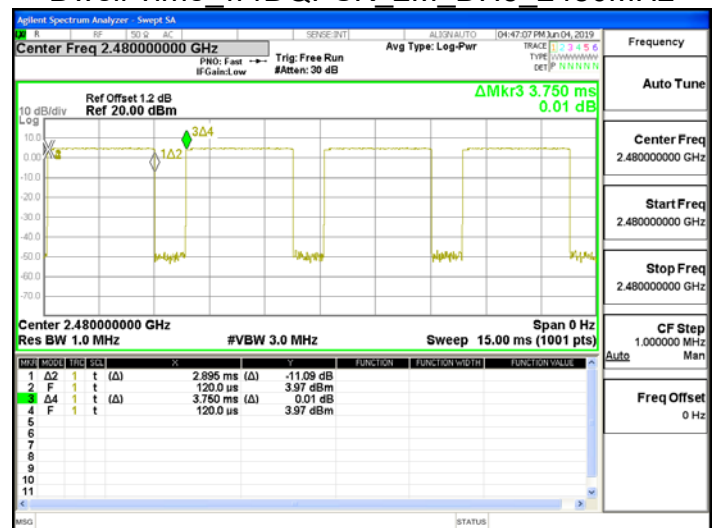
Dwell Time π 4DQPSK 2M DH5 2441MHz



Dwell Time π 4DQPSK 2M DH3 2480MHz



Dwell Time π 4DQPSK 2M DH5 2480MHz



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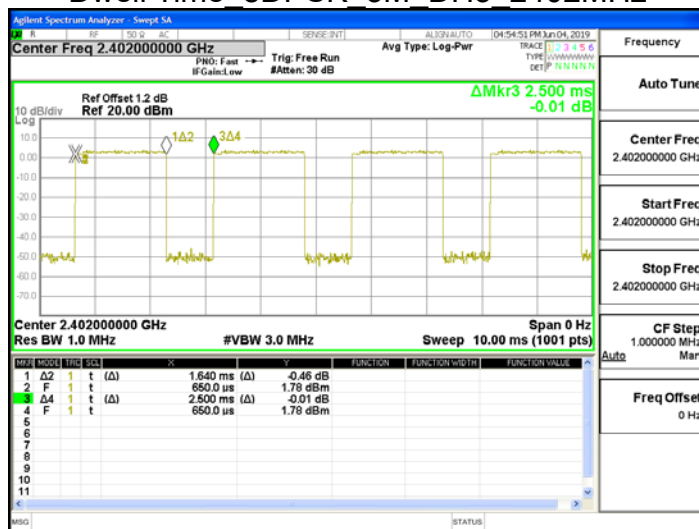
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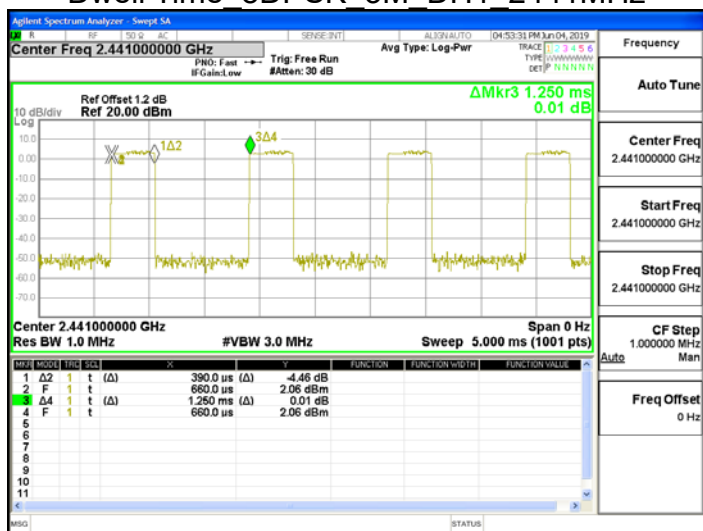
Dwell Time 8DPSK 3M DH1 2402MHz



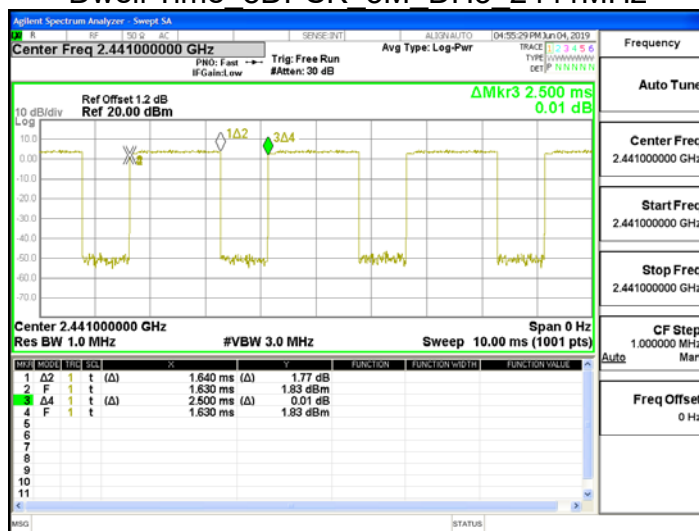
Dwell Time 8DPSK 3M DH3 2402MHz



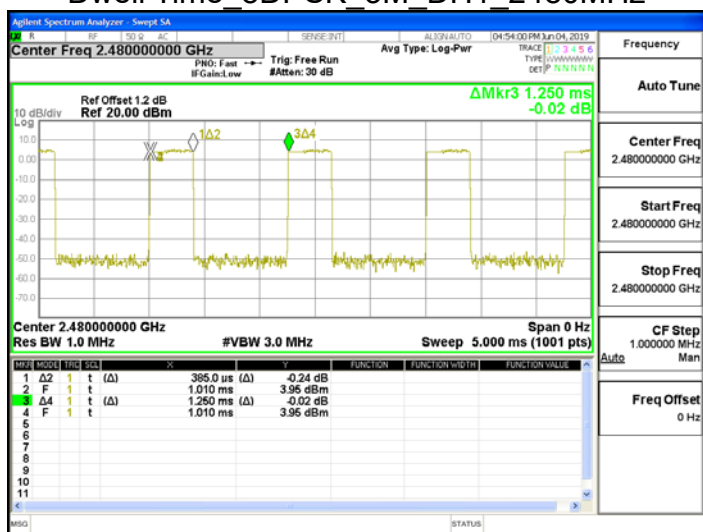
Dwell Time 8DPSK 3M DH1 2441MHz



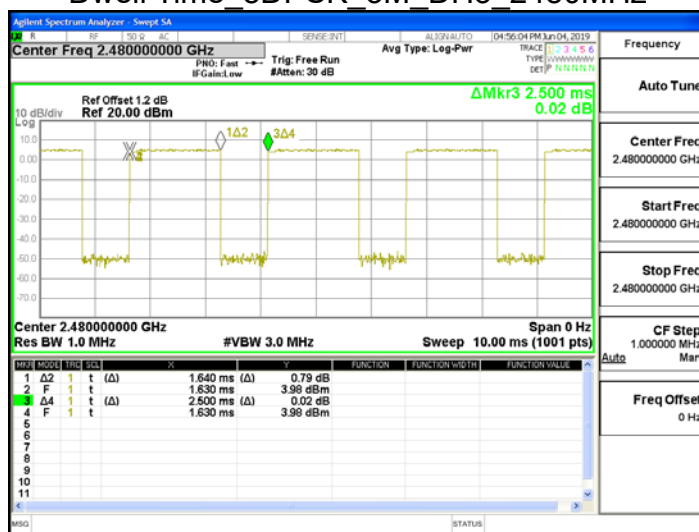
Dwell Time 8DPSK 3M DH3 2441MHz



Dwell Time 8DPSK 3M DH1 2480MHz



Dwell Time 8DPSK 3M DH3 2480MHz

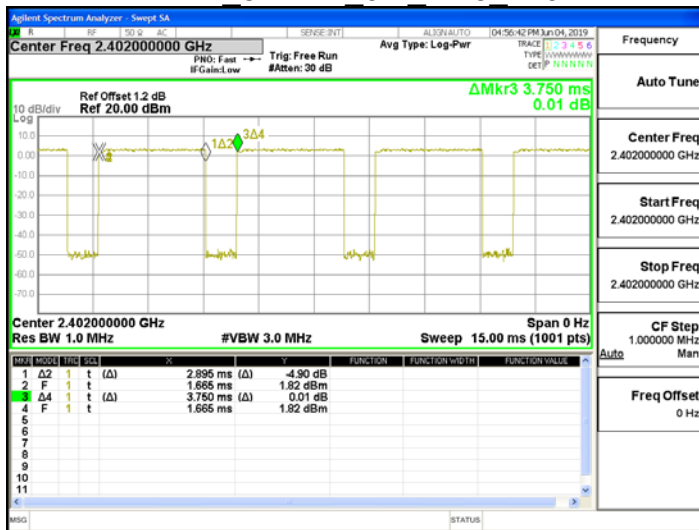


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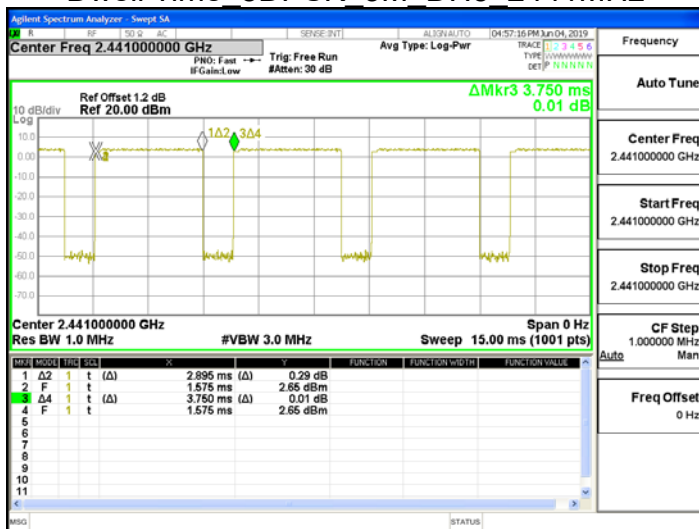
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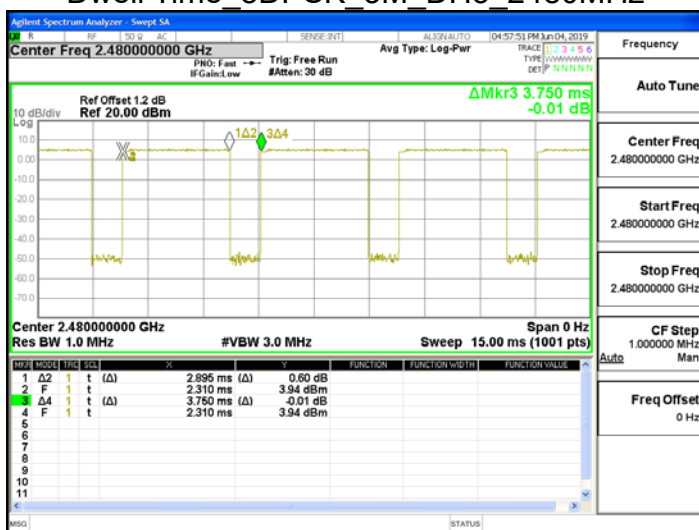
Dwell Time 8DPSK 3M DH5 2402MHz



Dwell Time 8DPSK 3M DH5 2441MHz



Dwell Time 8DPSK 3M DH5 2480MHz



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14 ANTENNA REQUIREMENT

14.1 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.

14.2 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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