

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

Applicant: ASUSTeK COMPUTER INC.
1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan

Product Name: ASUS Phone (Mobile Phone)

Brand Name: ASUS

Model No.: ASUS_I003D

Model Difference: N/A

Report Number: ER/2020/30078

FCC ID: MSQI003D

IC: 3568A-I003D

FCC Rule Part: §15.247, Cat: DSS

IC RSS: RSS-247 issue 2 Feb 2017

Issue Date: Aug. 17, 2020

Date of Test: May 06, 2020 ~ Jun. 29, 2020

Date of EUT Received: May 06, 2020

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report.

Approved By:

Jazz Huang

Jazz Huang / Asst. Supervisor



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Revision History

Report Number	Revision	Description	Issue Date	Remark
ER/2020/30078	Rev.00	Original.	Aug. 12, 2020	Revised By: Karen Huang

Note:

1、Disclaimer

Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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1 GENERAL INFORMATION

1.1 Product description

Product Name:	ASUS Phone (Mobile Phone)	
Brand Name:	ASUS	
Model No.:	ASUS_I003D	
Model Difference:	N/A	
Hardware Version:	R2.0B	
Software Version:	Android Q	
AJ dongle:	Model No.: F370002, Supplier: MEILU	
Fan Dongle:	Model No.: I003, Supplier: ASUS	
USB Cable:	Model No.: LA9U2015-CS-R, Supplier: ASAP	
Power Supply:	3.85Vdc from Rechargeable Li-polymer Battery or 5V / 9V / 12V / 15V / 20V from AC/DC Adapter	
	Battery:	Model No.: C11P1903, Supplier: SCUD
	Adapter:	Model No.: A299-200150U-US, Supplier: AOHA1

Radio Technology:	Bluetooth BR+EDR
Channel number:	79 channels
Modulation type:	GFSK + $\pi/4$ DQPSK + 8DPSK
Transmit Power:	13.86 dBm
Frequency Range:	2.402GHz – 2.480GHz
Dwell Time:	$\leq 0.4s$

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1.2 Antenna Designation

Bluetooth					
Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Worst Antenna Gain
PIFA	N/A	Ant4	2402~2480	-1.0	V
		Ant5		-1.8	
		Ant6		-2.0	
Note: Pre-scanned was done on the above 3 antennas, the peak gain -1.0dBi results higher emission. Therefore, the completed set of measurement was done on the antenna to be presented on this test report. Only one antenna can be enabled at any given time of transmission.					

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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

RSS-247 issue 2 Feb. 2017

RSS-Gen. issue 5, Amendment 1, March 2019

ANSI C63.10:2013

1.4 Test Facility

SGS Taiwan Ltd. Central RF Lab (TAF code 3702)

No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803

FCC Designation number: TW0027

ISED CAB identifier: TW3702

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. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Conducted Test (RF)

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

2.3.3 Radiated Emissions

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

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2.4 Measurement Results Explanation Example

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

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

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

2.4.2 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 Conducted (Antenna Port) Emission Configuration

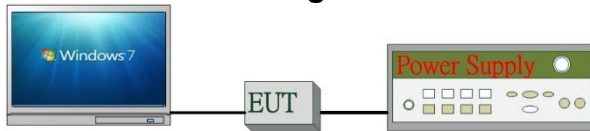


Fig 2-3 Conduction (AC Power Line) Radiated Emission

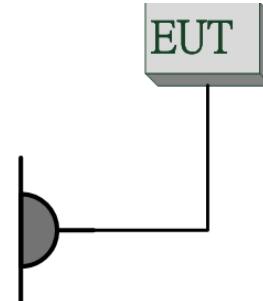


Fig 2-2 Radiated Emission



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	Lenovo	T440P	PB-02Y6RK	N/A	N/A
3	DC Power Supply	Agilent	E3640A	MY40005907	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§15.207(a)	RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.247(b)(1)	RSS-247 §5.4 b	Peak Output Power	Compliant
§15.247(a)(1)	RSS-247 §5.1 b RSS-Gen §6.7	20dB & 99% Bandwidth	Compliant
§15.205 §15.209 §15.247(d)	RSS-247 §5.5 RSS-Gen §8.9 RSS-Gen §8.10	Conducted & Radiated Band Edge and Spurious Emission	Compliant
§15.247(a)(1)	RSS-247 §5.1 b	Frequency Separation	Compliant
§15.247(a)(1)(iii)	RSS-247 §5.1 d	Number of hopping frequency Time of Occupancy	Compliant
§15.203	N/A	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, test program used to control the EUT for staying in continuous transmitting mode is programmed.

- i. Signals can be transmitted from 4 antennas with 4 different modes,
 - a. Transmission is available at a single antenna in any given time.
 - b. MIMO is not available for Bluetooth transmission.
 - c. Observations have been done for each mode and found that the **Gaming Mode** generates higher output power and emissions.
 - d. The **Gaming Mode** is determined as the worst case scenario and the test results being demonstrated in this test report are based on the **Gaming Mode**.
 - e. Please refer to **Antenna Location** section of this report for antenna details.

Mode	Antenna	The worst case scenario
Calling Mode	Ant4 or Ant6	
Camera Mode	Ant6 or Ant5	
Normal Mode	Portrait: Ant4 or Ant6 Landscape: Ant4 or Ant5	
Gaming Mode	Ant4 or Ant5	V

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2. Investigation has been done on all the possible configurations for searching the worst case.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	PACKET TYPE
RADIATED EMISSION TEST (BELOW 1 GHz)				
Bluetooth	0 to 78	39	GFSK	DH5
RADIATED EMISSION TEST (ABOVE 1 GHz)				
Bluetooth	0 to 78	0,39,78	GFSK	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 E2 position was reported.				

ANTENNA PORT CONDUCTED TEST				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	PACKET TYPE
Peak Output Power, 20dB Band Width				
Bluetooth	0 to 78	0,39,78	GFSK, $\pi/4$ -DQPSK, 8-DPSK	DH1/DH3/DH5
Band Edge				
Bluetooth	0 to 78	0,78	GFSK, 8-DPSK	DH5
Frequency Separation				
Bluetooth	0 to 78	0,1,2	GFSK	DH5
Number of hopping frequency				
Bluetooth	0 to 78	0 to 78	GFSK	DH5
Time of Occupancy (Dwell time)				
Bluetooth	0 to 78	0,39,78	GFSK, $\pi/4$ -DQPSK, 8-DPSK	DH1/DH3/DH5

Note: EUT serial number is L4AIGF000585XCH.

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
Peak Output Power	+/- 0.84 dB
20dB Bandwidth	+/- 51.33 Hz
100 KHz Bandwidth Of Frequency Band Edges	+/- 0.84 dB
Frequency Separation	+/- 51.33 Hz
Number of hopping frequency	+/- 51.33 Hz
Time of Occupancy	+/- 51.33 Hz
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC= +/- 0.2%

Radiated Spurious Emission Measurement Uncertainty	
Polarization: Vertical	9kHz~30MHz: +/-2.3dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB
Polarization: Horizontal	9kHz~30MHz: +/-2.3dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

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 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

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI 7	100759	07/04/2019	07/03/2020
LISN	SCHWARZBECK	NSLK 8127	8127-465	04/09/2020	04/08/2021
Coaxial Cables	N/A	Coaxial Cable	161207	12/07/2019	12/06/2020
Test Software	audix	e3	Ver. 6.11-20180413	N.C.R	N.C.R

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

6.3 EUT Setup

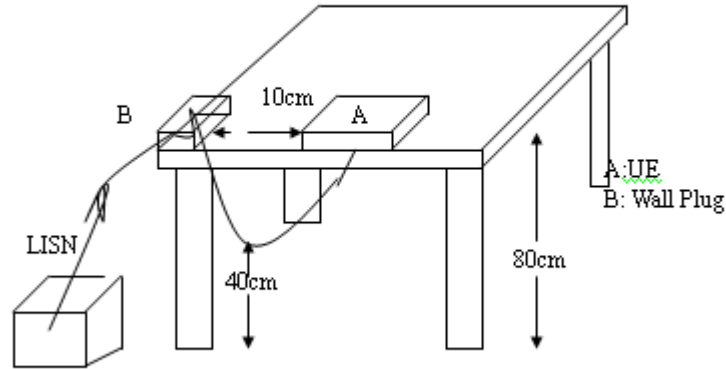
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI 63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

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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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台灣檢驗科技股份有限公司 t (886-2) 2299-3279

f (886-2) 2298-0488

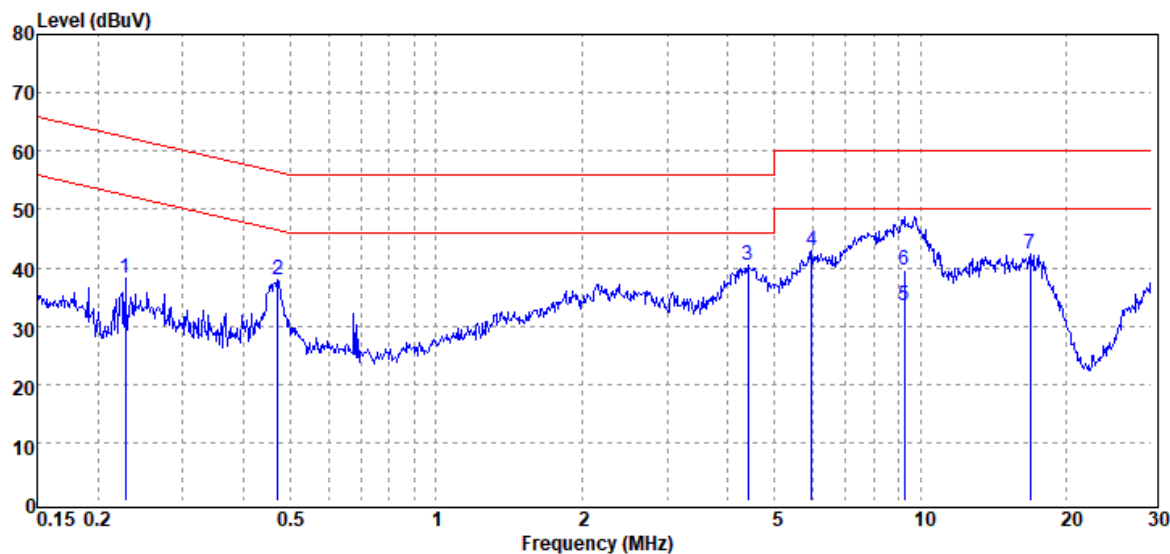
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Member of SGS Group

AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :ER-2020-30078
 Test Mode :BT
 Power :AC 120V/60Hz
 Probe :L
 Note :

Test Site :Conduction 6F
 Test Date :2020-06-19
 Temp./Humi. :25.6/62
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.23	Peak	36.03	2.14	38.17	62.52	-24.35
0.47	Peak	35.65	2.16	37.81	56.49	-18.68
4.41	Peak	37.97	2.49	40.46	56.00	-15.54
5.96	Peak	40.20	2.62	42.82	60.00	-17.18
9.25	Average	30.60	2.80	33.40	50.00	-16.60
9.25	QP	36.70	2.80	39.50	60.00	-20.50
16.84	Peak	39.34	3.02	42.36	60.00	-17.64

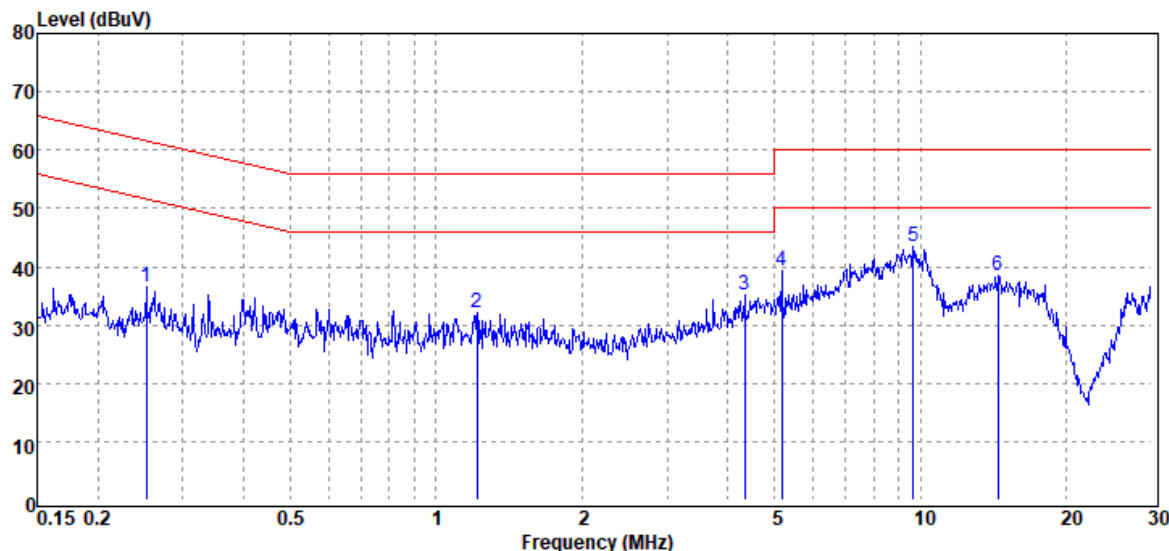
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Report Number :ER-2020-30078
 Test Mode :BT
 Power :AC 120V/60Hz
 Probe :N
 Note :

Test Site :Conduction 6F
 Test Date :2020-06-19
 Temp./Humi. :25.6/62
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.25	Peak	34.21	2.21	36.42	61.69	-25.27
1.22	Peak	29.94	2.26	32.20	56.00	-23.80
4.34	Peak	32.73	2.43	35.16	56.00	-20.84
5.17	Peak	36.88	2.48	39.36	60.00	-20.64
9.65	Peak	40.83	2.69	43.52	60.00	-16.48
14.44	Peak	35.65	2.90	38.55	60.00	-21.45

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7 PEAK OUTPUT POWER MEASUREMENT

7.1 Standard Applicable

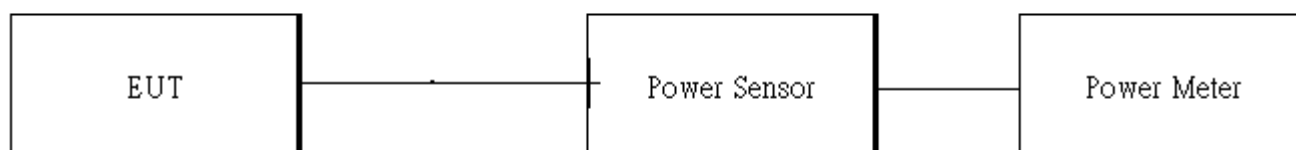
For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 hopping channels, The Limit: 1Watt. For all other frequency hopping systems in the 2400 – 2483.5MHz band: The Limit: 0.125 Watts. The power limit for 1Mbps is 1watt, and 2Mbps, 3Mbps and AFH mode are 0.125 watts.

The e.i.r.p. shall not exceed 4 W.

7.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1804001	02/20/2020	02/19/2021
Power Sensor	Anritsu	MA2411B	1726104	02/20/2020	02/19/2021
Power Sensor	Anritsu	MA2411B	1726107	02/20/2020	02/19/2021
DC Power Supply	Agilent	E3640A	MY40005907	10/22/2019	10/21/2020

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 Peak & Average Power Measurement Result

1M BR mode (Peak):

CH	Freq. (MHz)	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	13.30	21.380	125
Mid	2441	13.86	24.322	125
High	2480	11.89	15.453	125

1M BR mode (Average):

CH	Freq. (MHz)	Max. Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	13.28	21.264	125
Mid	2441	13.70	23.423	125
High	2480	11.79	15.088	125

2M EDR mode (Peak):

CH	Freq. (MHz)	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	11.89	15.453	125
Mid	2441	12.43	17.498	125
High	2480	10.47	11.143	125

2M EDR mode (Average):

CH	Freq. (MHz)	Max. Avg. Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	9.52	8.962	125
Mid	2441	10.17	10.408	125
High	2480	8.15	6.537	125

3M EDR mode (Peak):

CH	Freq. (MHz)	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	12.30	16.982	125
Mid	2441	12.86	19.320	125
High	2480	10.81	12.050	125

3M EDR mode (Average):

CH	Freq. (MHz)	Max. Avg. Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	9.60	9.128	125
Mid	2441	10.15	10.361	125
High	2480	8.14	6.522	125

NOTE: cable loss as 11dB that offsets in the spectrum

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

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7.6 EIRP Measurement Result

1M BR mode EIRP

Channel	Frequency (MHz)	Max. Output include tune up tolerance Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	Limit (mW)
Low	2402	13.28	-1.00	16.890	4000
Mid	2441	13.70	-1.00	18.605	4000
High	2480	11.79	-1.00	11.985	4000

2M EDR mode EIRP

Channel	Frequency (MHz)	Max. Avg. Output include tune up tolerance Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	Limit (mW)
Low	2402	9.52	-1.00	7.118	4000
Mid	2441	10.17	-1.00	8.268	4000
High	2480	8.15	-1.00	5.193	4000

3M EDR mode EIRP

Channel	Frequency (MHz)	Max. Avg. Output include tune up tolerance Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	Limit (mW)
Low	2402	9.60	-1.00	7.251	4000
Mid	2441	10.15	-1.00	8.230	4000
High	2480	8.14	-1.00	5.181	4000

* **Note:** EIRP = Average Power + Gain

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8 20dB & 99% BANDWIDTH MEASUREMENT

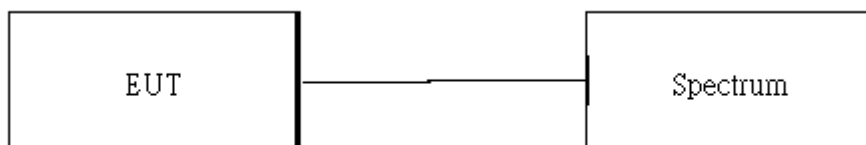
8.1 Standard Applicable

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

8.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	05/06/2020	05/05/2021
DC Power Supply	Agilent	E3640A	MY40005907	10/22/2019	10/21/2020
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021

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= 1 % to 5% of OBW ,
VBW = 3 X RBW,
Span= 2 to 5 times of the OBW,
Sweep=auto,
Detector = Peak, and Max hold for 20dB Bandwidth test.
5. Mark the peak frequency and -20dB (upper and lower) frequency
6. Set the spectrum analyzer as
RBW= 1 % to 5% of 99% Bandwidth ,
VBW $\geq$ 3 X RBW,
Span= large enough to capture all products of the modulation process,
Sweep=auto,
Detector = Peak, and Max hold for 99% Bandwidth test.
7. Mark the peak frequency and 99%dB (upper and lower) frequency
8. Repeat above procedures until all test default channel is completed

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8.5 20dB Bandwidth

GFSK

CH	20 dB BW (MHz)	2/3 BW (MHz)
Low	0.8783	0.59
Mid	0.8823	0.59
High	0.8797	0.59

$\pi/4$ -DQPSK

CH	20 dB BW (MHz)	2/3 BW (MHz)
Low	1.306	0.87
Mid	1.277	0.85
High	1.279	0.85

8-DPSK

CH	20 dB BW (MHz)	2/3 BW (MHz)
Low	1.263	0.84
Mid	1.268	0.85
High	1.265	0.84

8.6 99% Bandwidth

GFSK

CH	99% BW (MHz)
Low	0.80355
Mid	0.80425
High	0.80508

$\pi/4$ -DQPSK

CH	99% BW (MHz)
Low	1.1823
Mid	1.1826
High	1.1804

8-DPSK

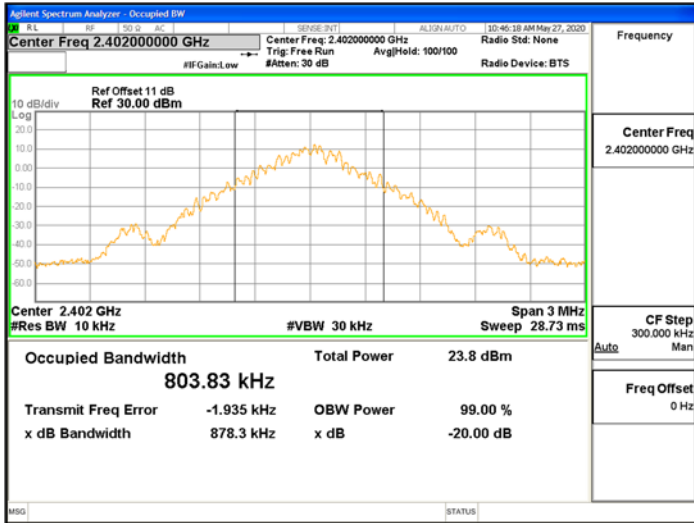
CH	99% BW (MHz)
Low	1.1891
Mid	1.1877
High	1.1884

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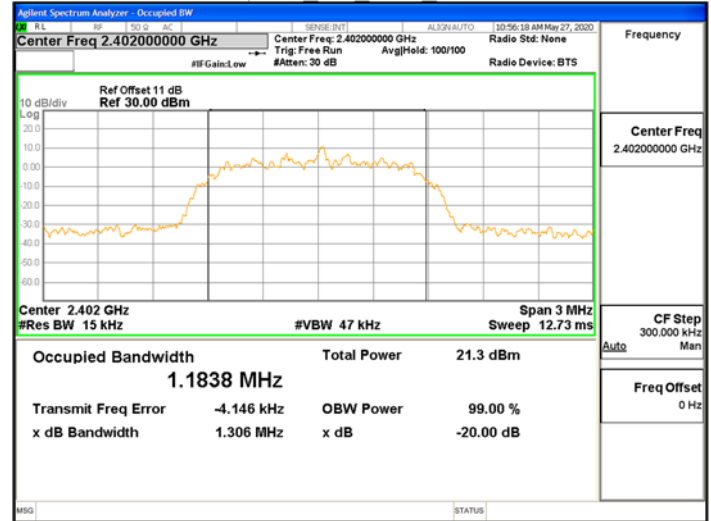
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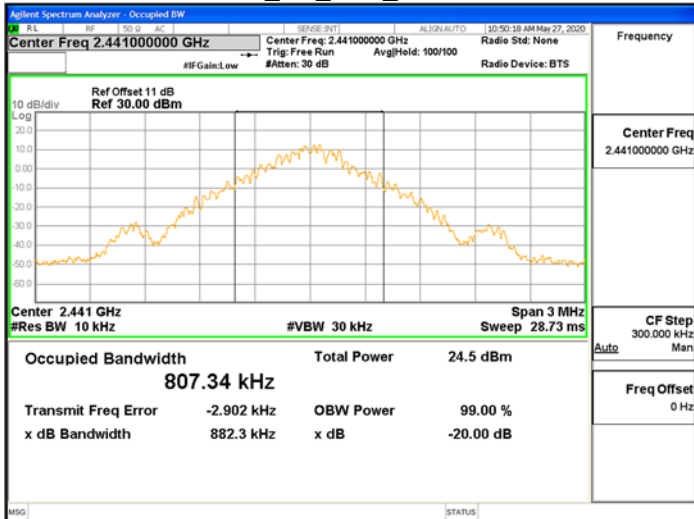
GFSK_1M_DH5_2402MHz



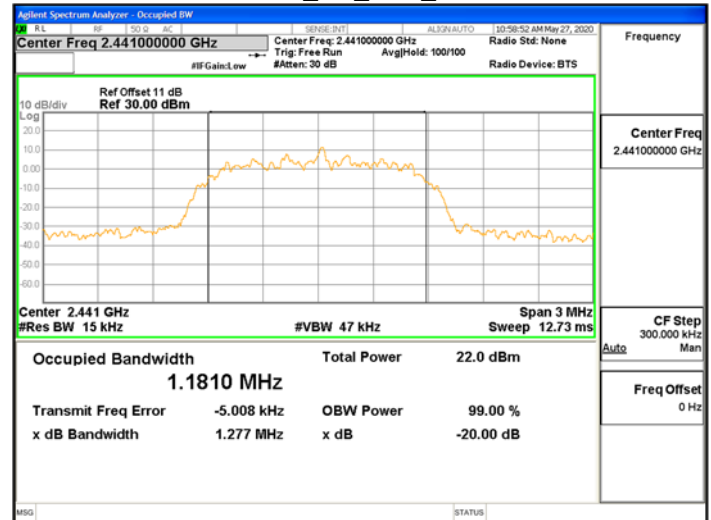
$\pi/4$ DQPSK 2M_DH5_2402MHz



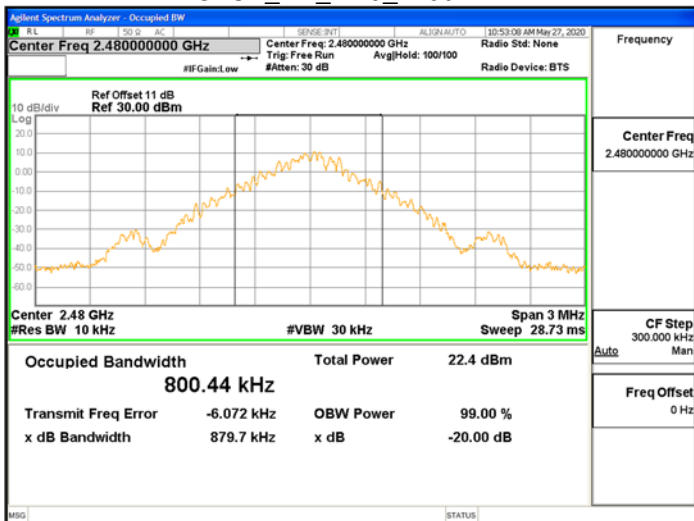
GFSK_1M_DH5_2441MHz



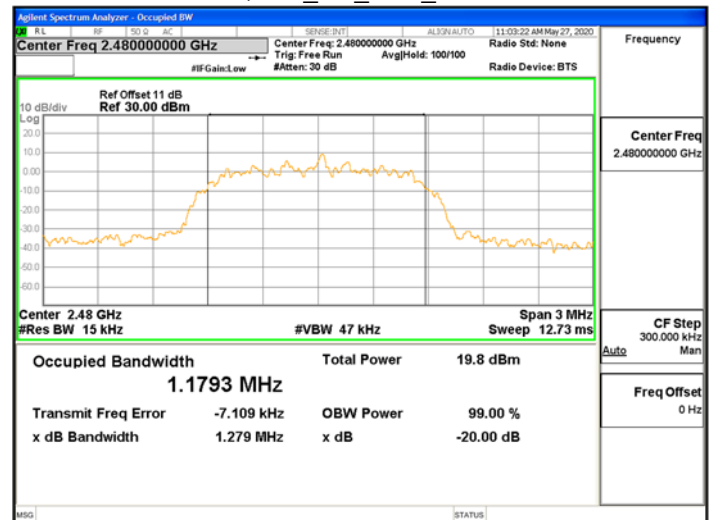
$\pi/4$ DQPSK 2M_DH5_2441MHz



GFSK_1M_DH5_2480MHz



$\pi/4$ DQPSK 2M_DH5_2480MHz

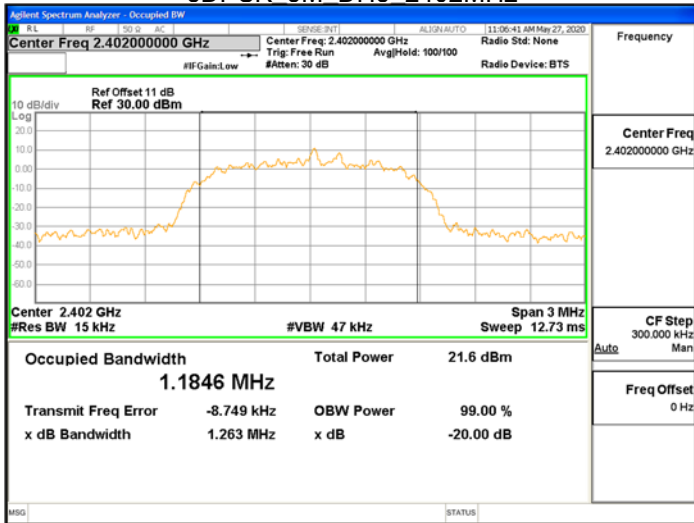


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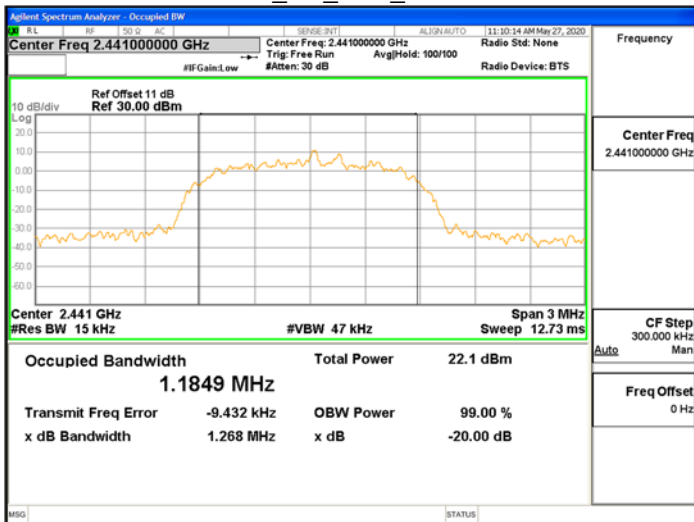
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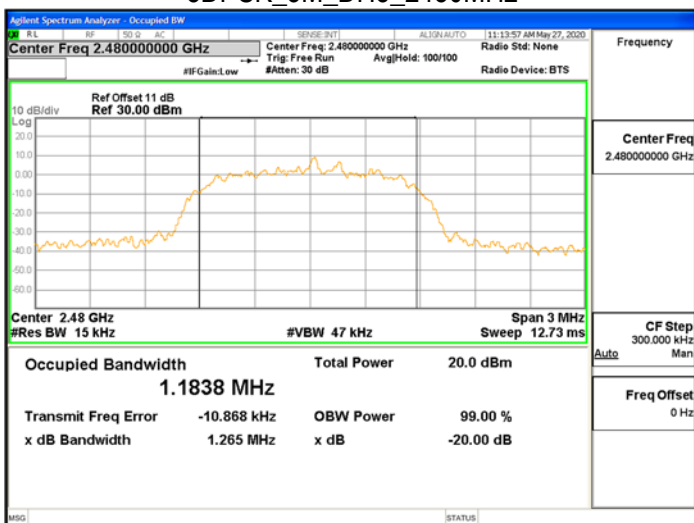
8DPSK 3M_DH5_2402MHz



8DPSK 3M_DH5_2441MHz



8DPSK 3M_DH5_2480MHz



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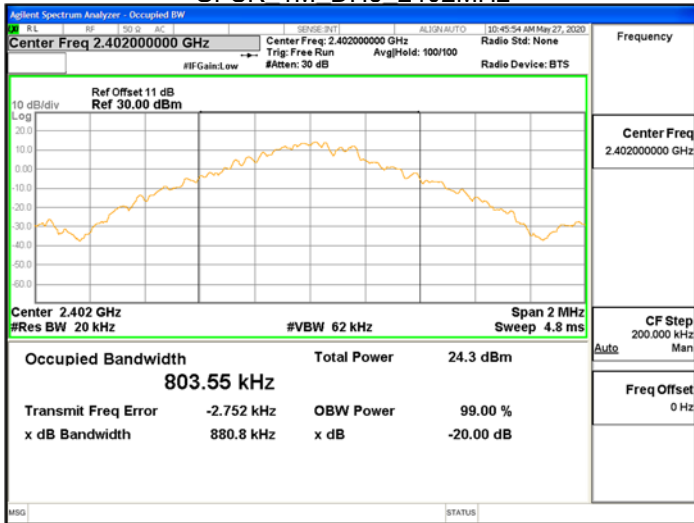
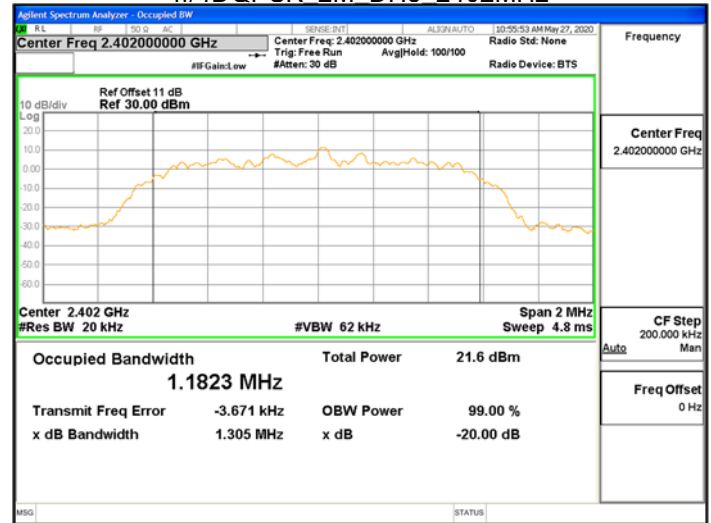
台灣檢驗科技股份有限公司 t (886-2) 2299-3279

f (886-2) 2298-0488

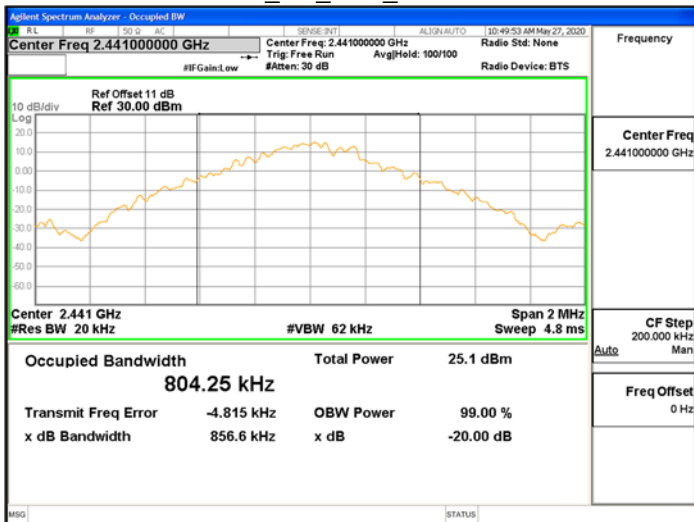
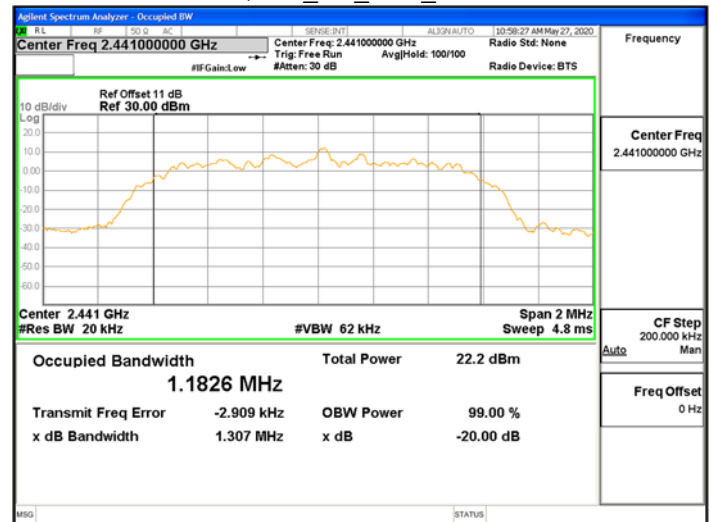
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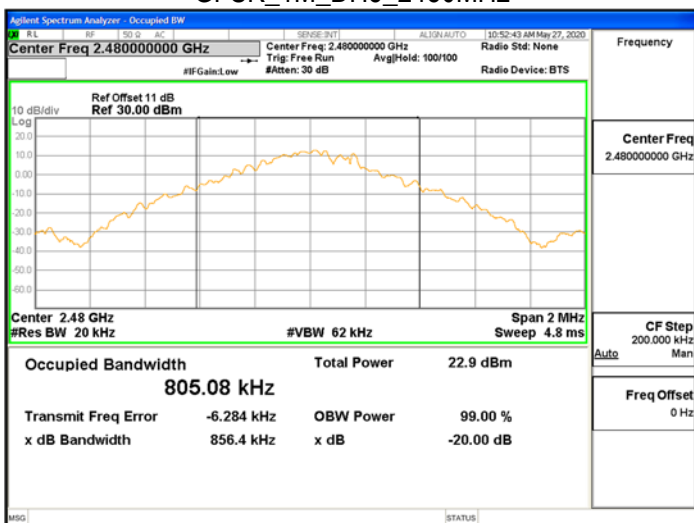
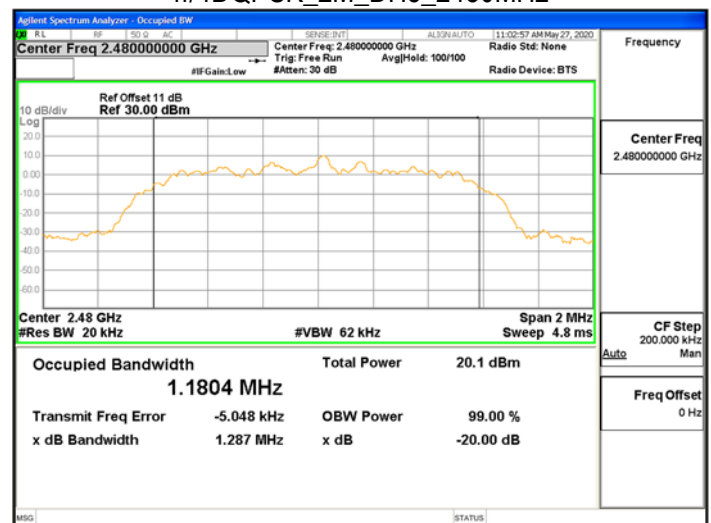
GFSK 1M DH5 2402MHz

 $\pi/4$ DQPSK 2M DH5 2402MHz

GFSK 1M DH5 2441MHz

 $\pi/4$ DQPSK 2M DH5 2441MHz

GFSK 1M DH5 2480MHz

 $\pi/4$ DQPSK 2M DH5 2480MHz

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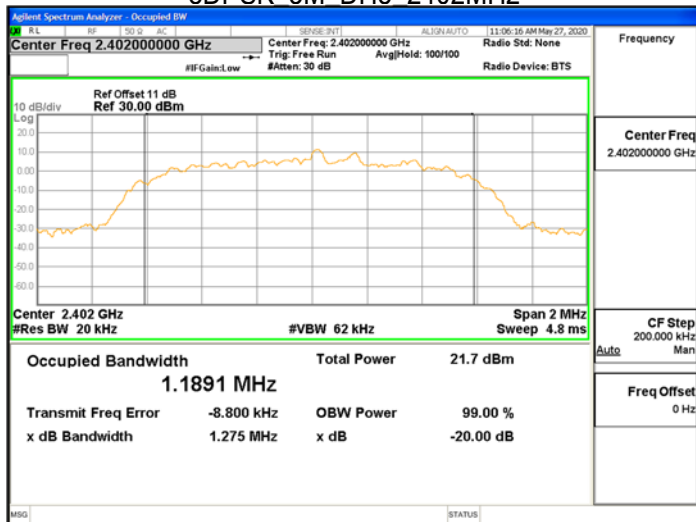
台灣檢驗科技股份有限公司 t (886-2) 2299-3279

f (886-2) 2298-0488

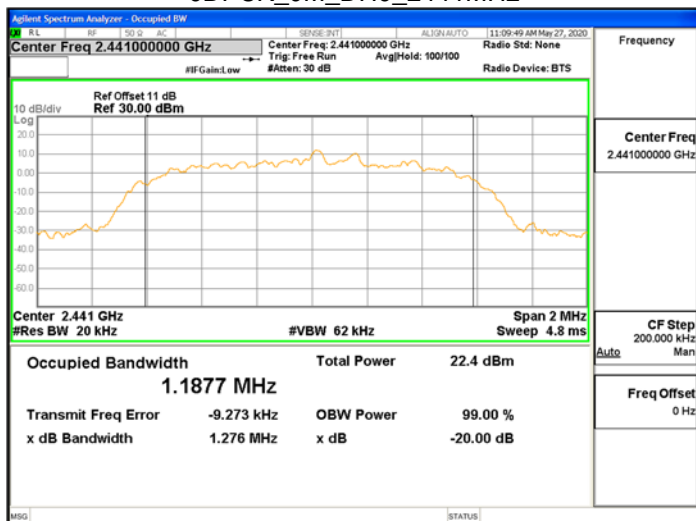
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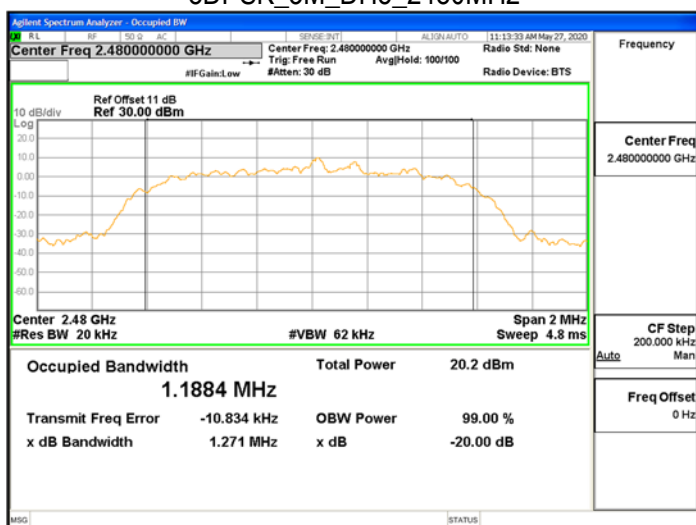
8DPSK 3M_DH5_2402MHz



8DPSK 3M_DH5_2441MHz



8DPSK 3M_DH5_2480MHz



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9 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

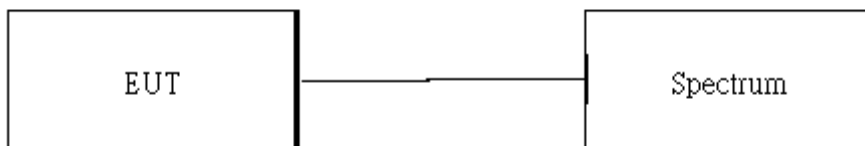
9.1 Standard Applicable

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) & RSS-Gen §8.10, must also comply with the radiated emission limits specified in §15.209(a) & RSS-Gen §8.9.

9.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	05/06/2020	05/05/2021
DC Power Supply	Agilent	E3640A	MY40005907	10/22/2019	10/21/2020
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021

9.3 Test SET-UP



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9.4 Measurement Procedure

9.4.1 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.

9.4.2 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.

9.5 Measurement Result

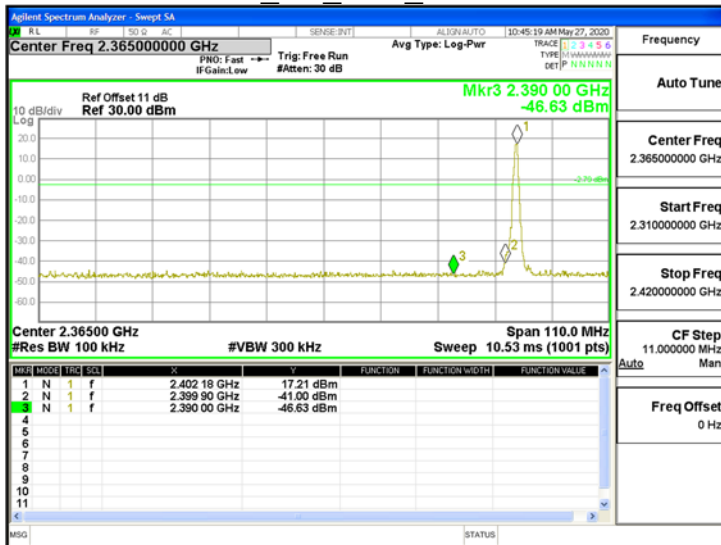
See next page for test plots.

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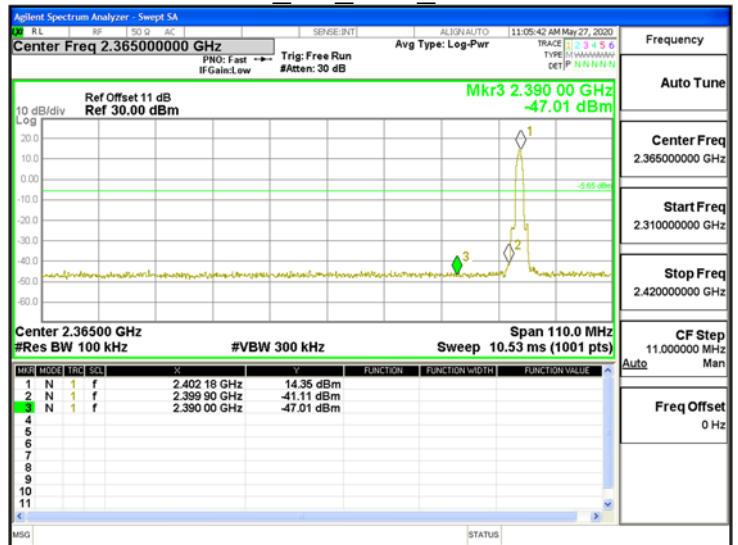
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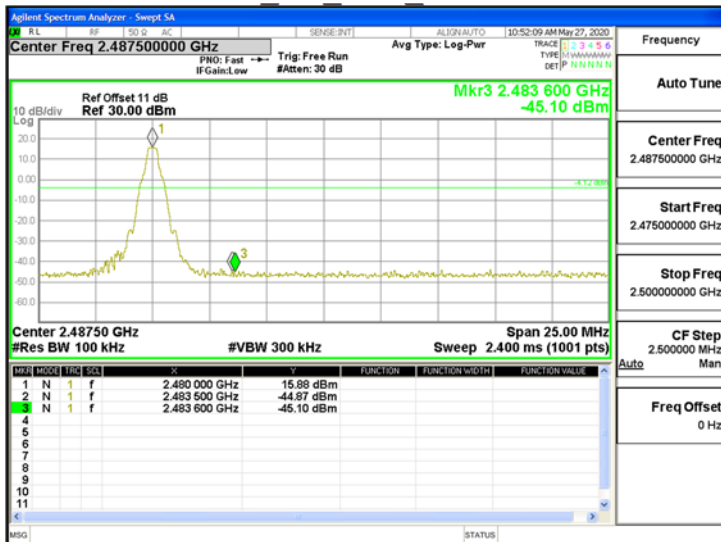
GFSK 1M DH5 2402MHz



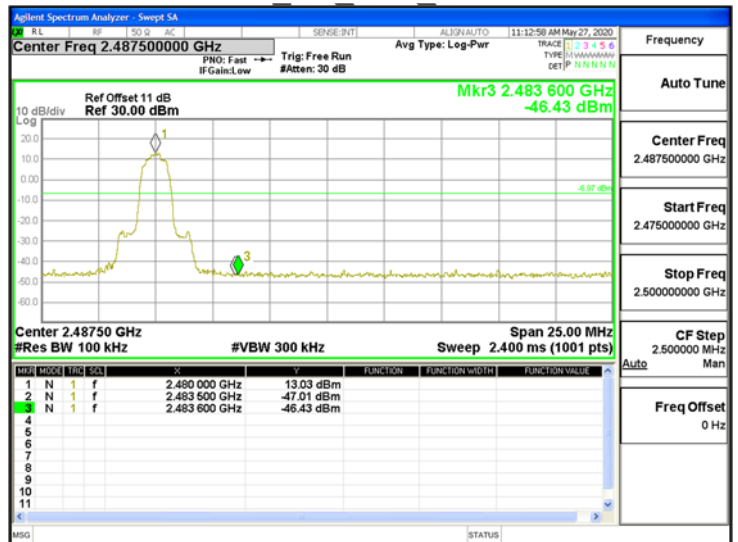
8DPSK 3M DH5 2402MHz



GFSK 1M DH5 2480MHz



8DPSK 3M DH5 2480MHz

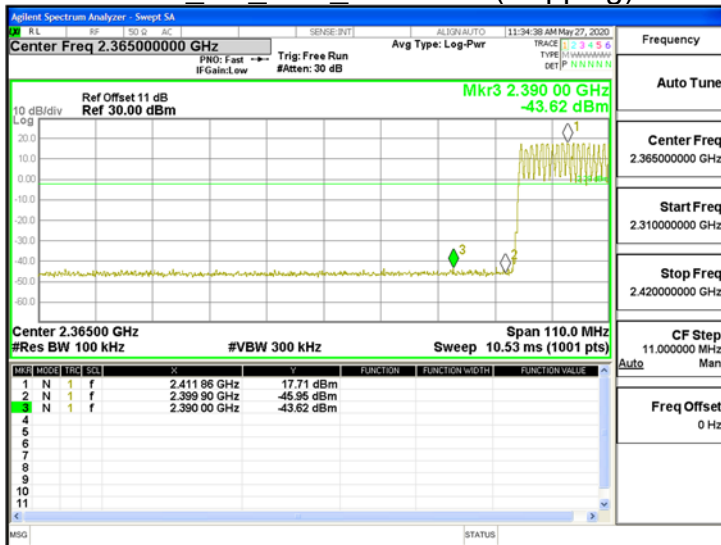


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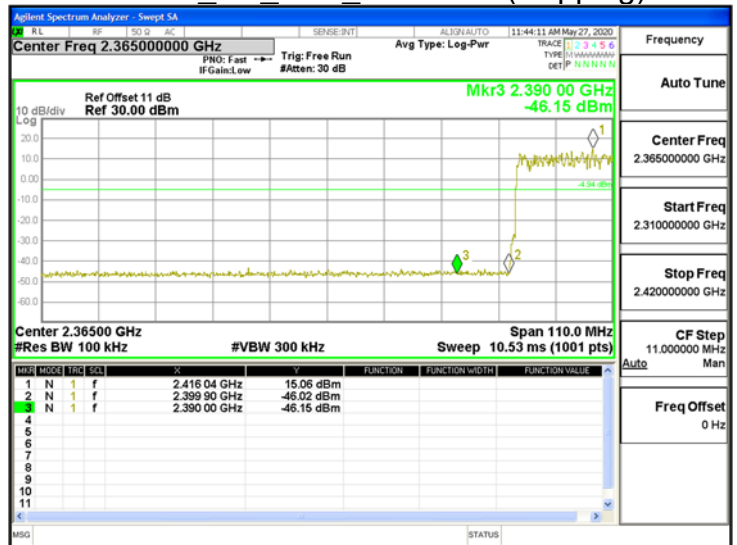
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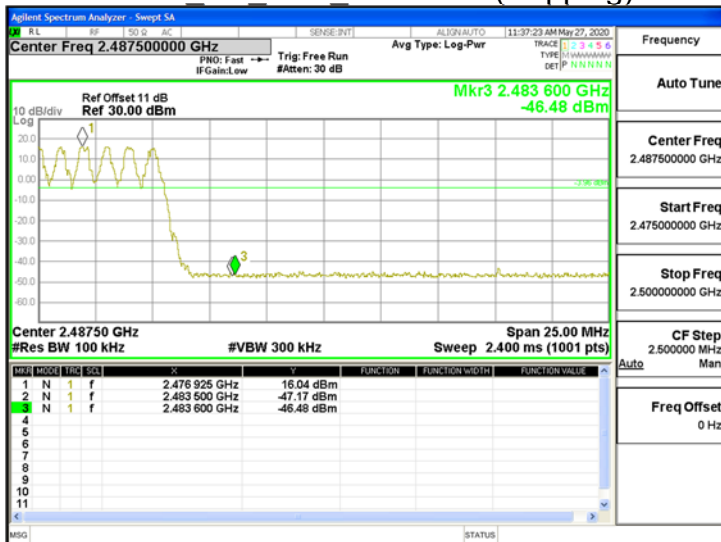
GFSK 1M DH5 2402MHz (Hopping)



8DPSK 3M DH5 2402MHz (Hopping)



GFSK 1M DH5 2480MHz (Hopping)



8DPSK 3M DH5 2480MHz (Hopping)

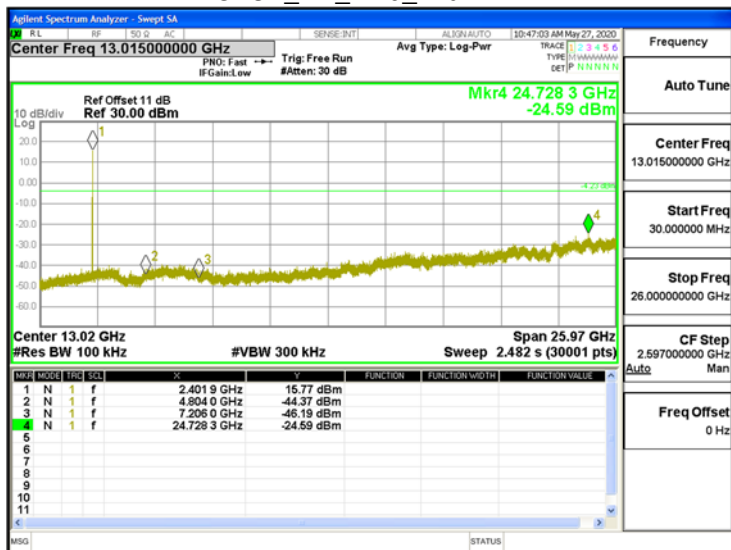
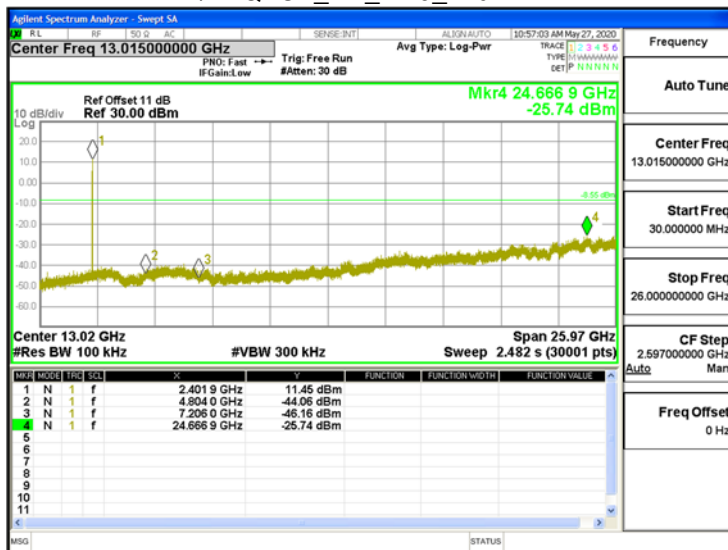


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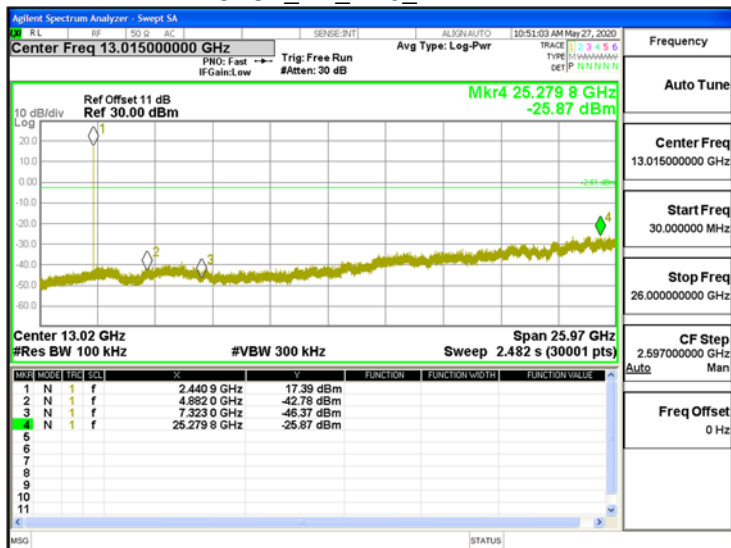
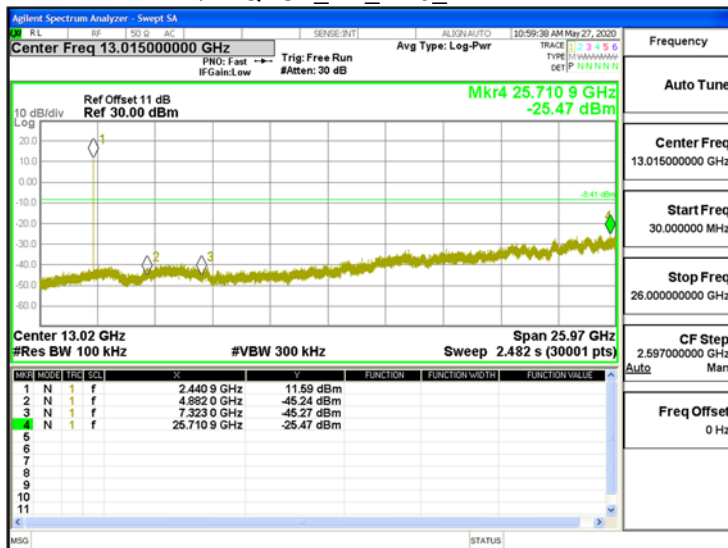
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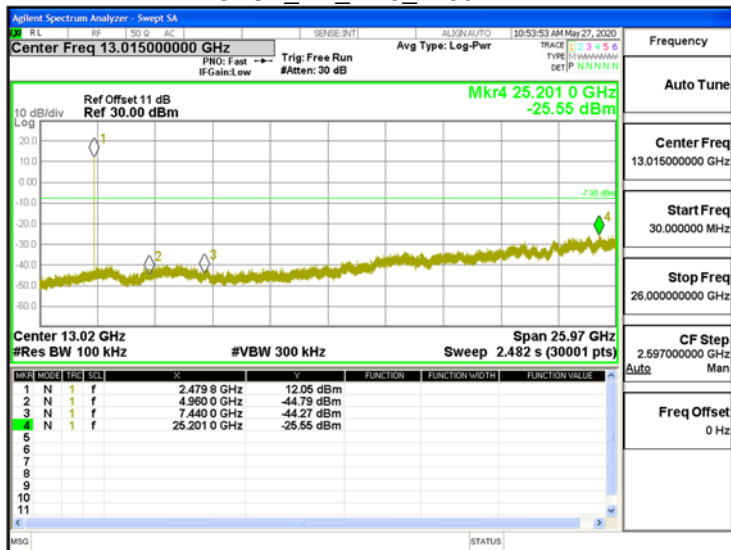
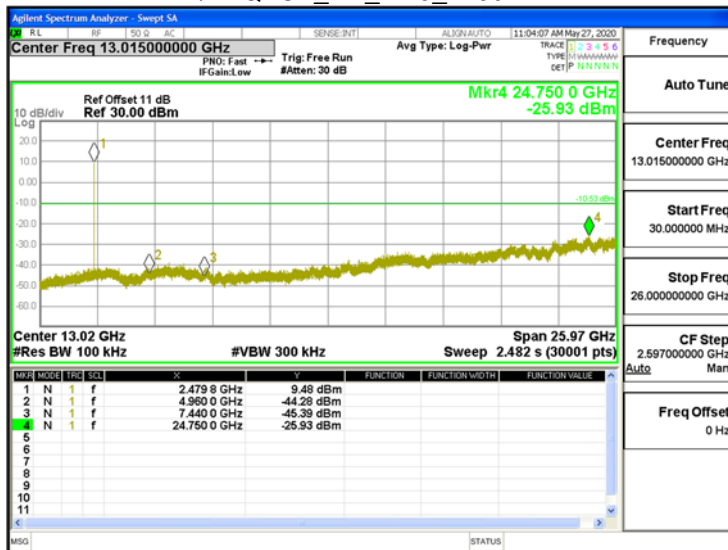
GFSK_1M_DH5_2402MHz

 $\pi/4$ DQPSK_2M_DH5_2402MHz

GFSK_1M_DH5_2441MHz

 $\pi/4$ DQPSK_2M_DH5_2441MHz

GFSK_1M_DH5_2480MHz

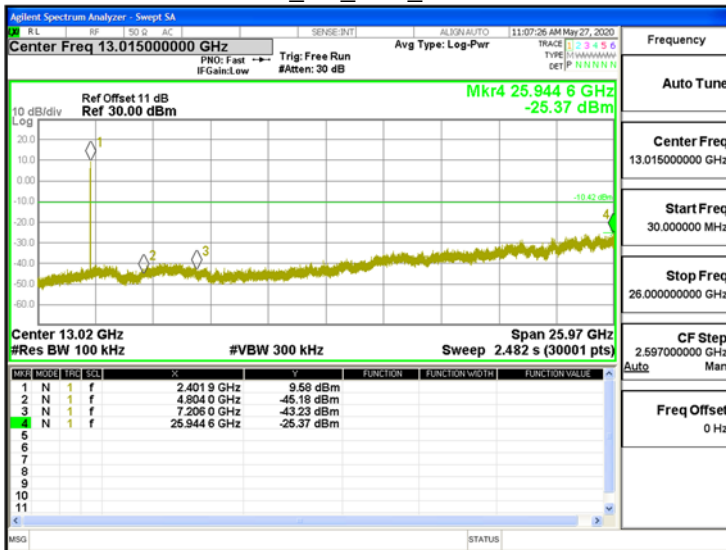
 $\pi/4$ DQPSK_2M_DH5_2480MHz

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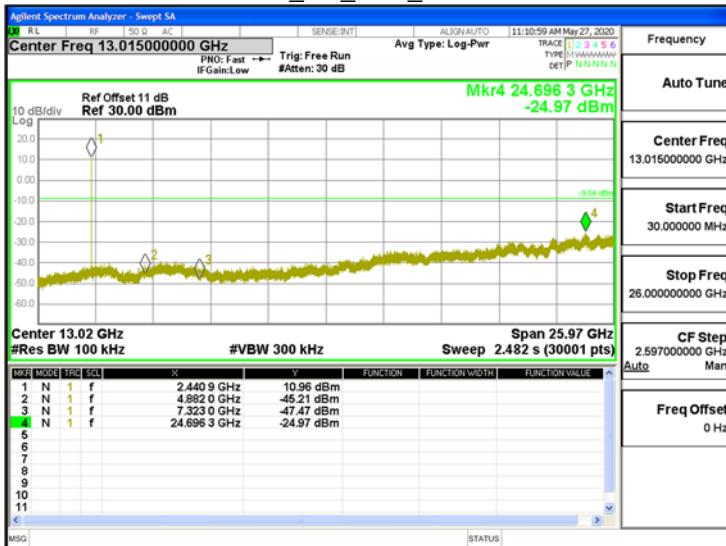
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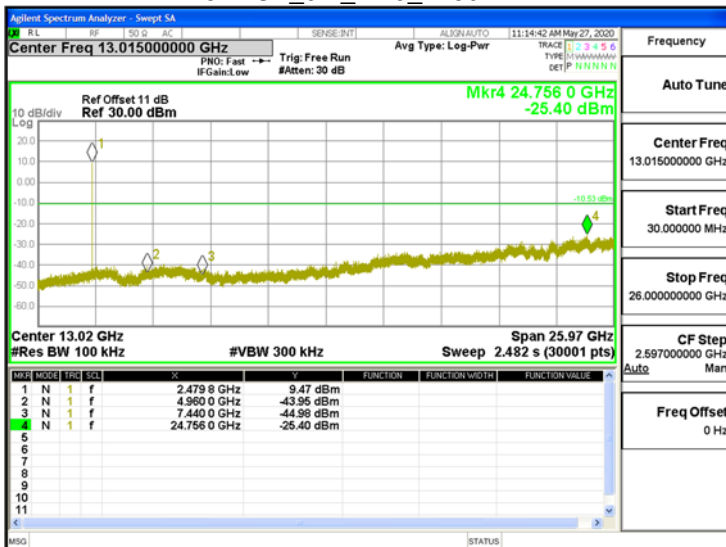
8DPSK_3M_DH5_2402MHz



8DPSK_3M_DH5_2441MHz



8DPSK_3M_DH5_2480MHz



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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 and RSS-Gen §8.9 Table 5 and 6 limit as below.

And according to §15.33(a) (1) & RSS-Gen §6.13.2.a, 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 (μV/m)

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10.2 Measurement Equipment Used

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	Schwarzbeck	BBHA9120D	D803	12/20/2019	12/19/2020
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	01/13/2020	01/12/2021
Loop Antenna	ETS.LINDGREN	6502	148045	10/15/2019	10/14/2020
Spectrum Analyzer	Agilent	E4446A	MY51100003	10/23/2019	10/22/2020
EMI Test Receiver	R&S	ESCI 7	100759	07/04/2019	07/03/2020
Pre-Amplifier	EMC Instruments	EMC184045B	980135	01/02/2020	01/01/2021
Pre-Amplifier	EMC Instruments	EMC051825	980152	01/02/2020	01/01/2021
Pre-Amplifier	HP	8447D	2944A09469	01/02/2020	01/01/2021
Attenuator	Mini-Circuit	BW-S10W2+	4	01/02/2020	01/01/2021
Filter 2400-2483.5 MHz	EWT	EWT-14-0166	M1	01/02/2020	01/01/2021
High Pass Filter	WI	WHKX4.0/18G-10SS	22	01/02/2020	01/01/2021
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	01/02/2020	01/01/2021
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	01/02/2020	01/01/2021
Coaxial Cable	Huber Suhner	EMC 104-SM-SM-2000	160123	01/02/2020	01/01/2021

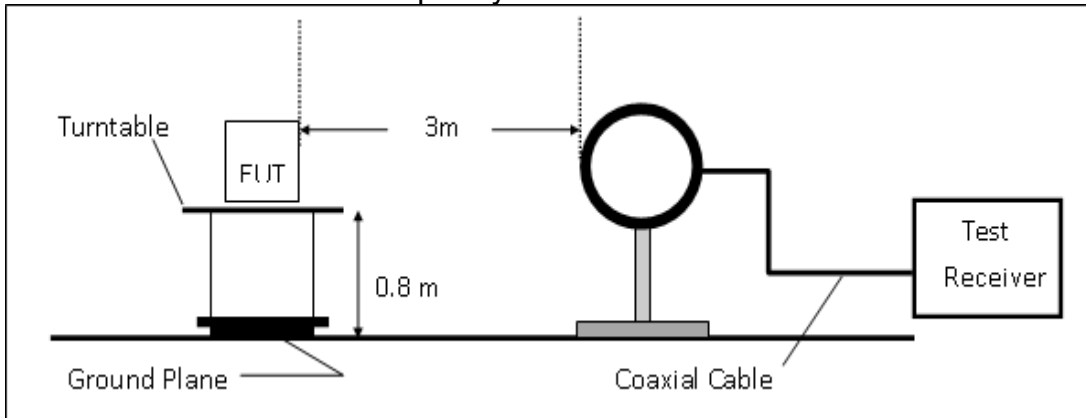
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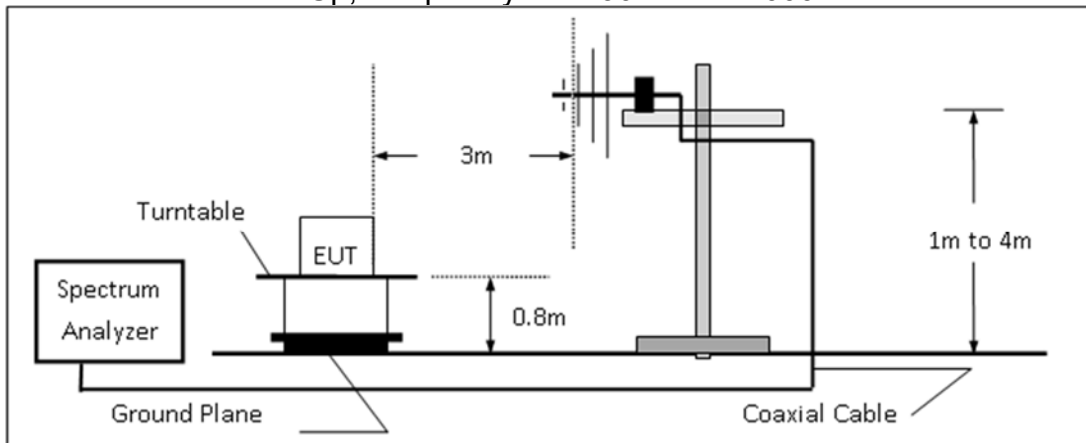
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10.3 Test SET-UP

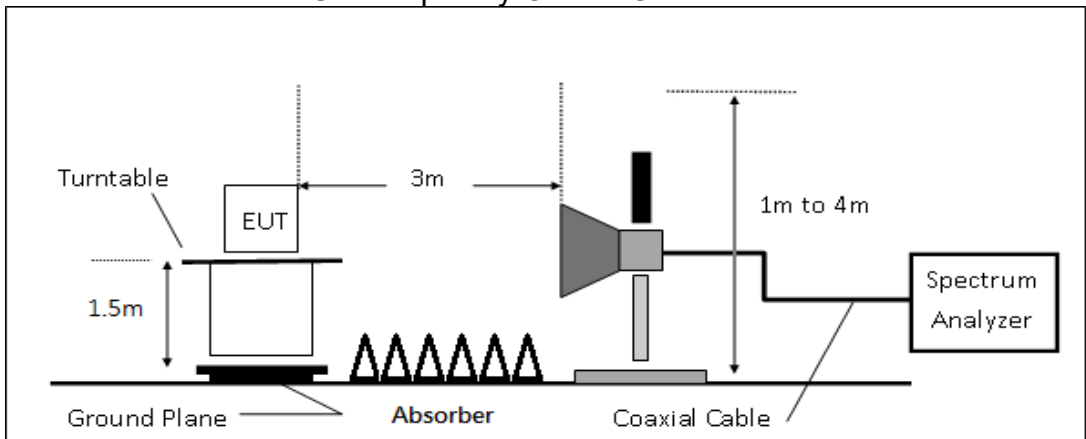
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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

10.4.1 Radiated Emission

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 $\geq 1/T$ (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.

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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 $20 \cdot \log(uV/m)$

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) & RSS-GEN §6.13.2 was not reported.

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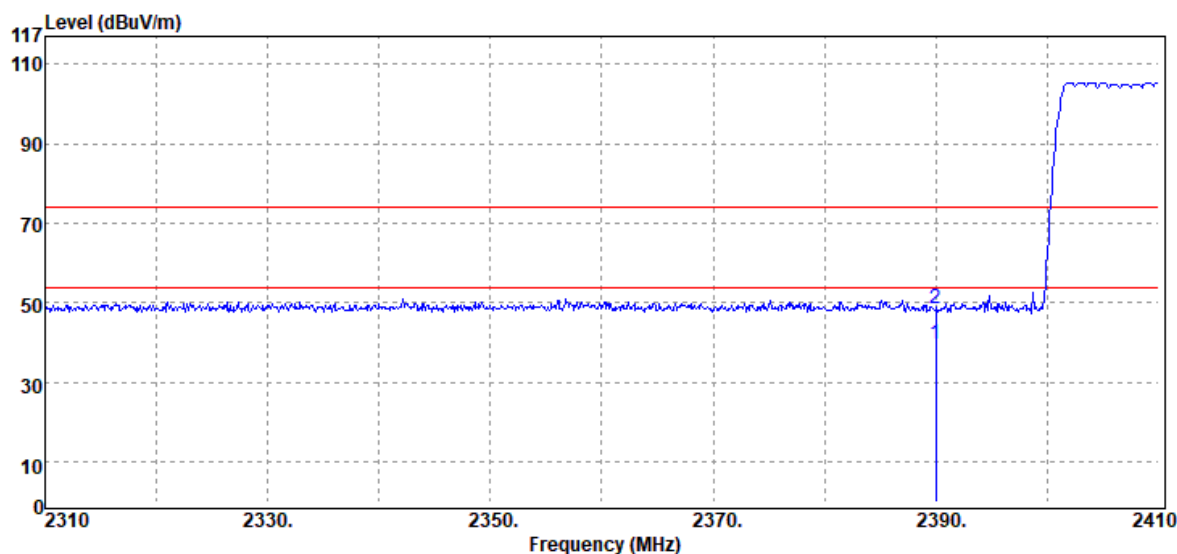
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10.7 Measurement Result:**10.7.1 Radiated Bandedge Result (Hopping Mode)**

Report Number :ER/2020/30078
 Operation Mode :BR Hopping
 Test Frequency :2402 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Date :2020-06-06
 Temp./Humi. :26.4/72
 Antenna Pol. :VERTICAL
 Engineer :Thomas



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	32.02	7.46	39.48	54.00	-14.52
2390.00	Peak	40.94	7.46	48.40	74.00	-25.60

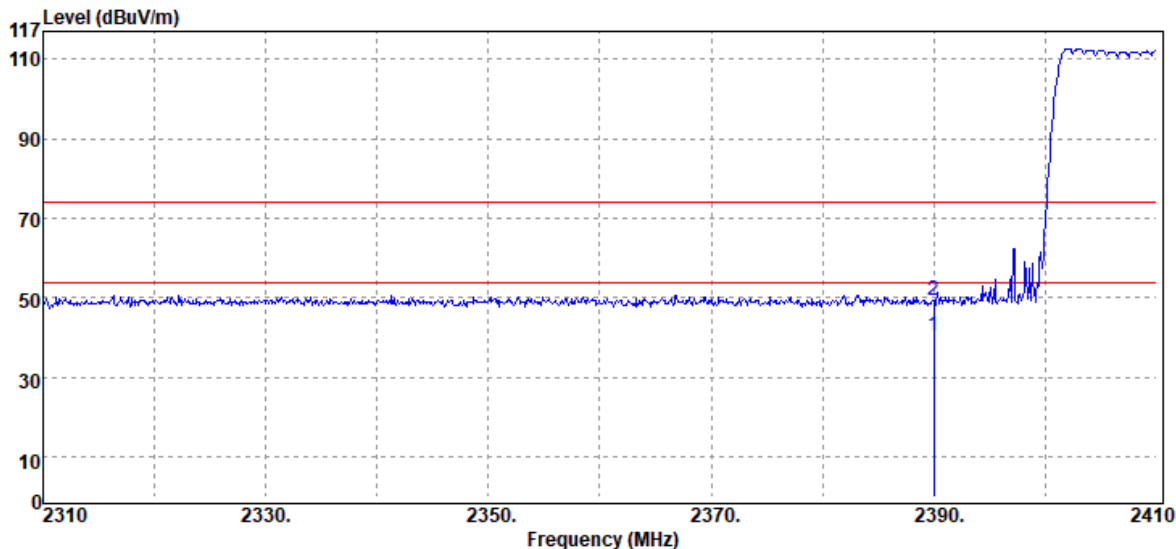
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Report Number :ER/2020/30078
Operation Mode :BR Hopping
Test Frequency :2402 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2020-06-06
Temp./Humi. :26.4/72
Antenna Pol. :HORIZONTAL
Engineer :Thomas



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	32.92	7.46	40.38	54.00	-13.62
2390.00	Peak	41.99	7.46	49.45	74.00	-24.55

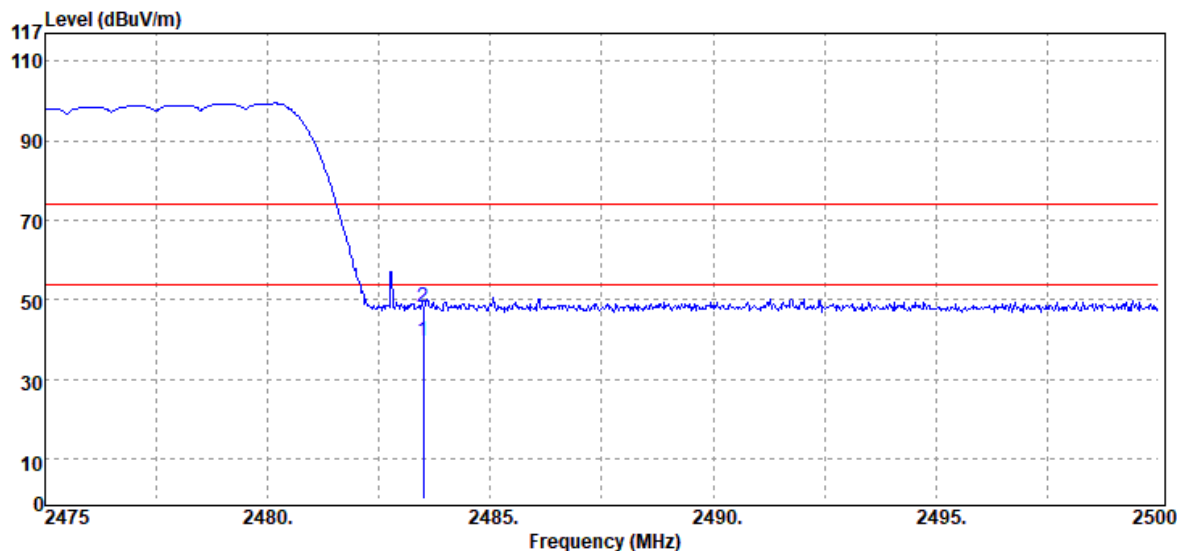
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Report Number :ER/2020/30078
Operation Mode :BR Hopping
Test Frequency :2480 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2020-06-06
Temp./Humi. :26.4/72
Antenna Pol. :VERTICAL
Engineer :Thomas



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
2483.50	Average	32.31	7.46	39.77	54.00	-14.23
2483.50	Peak	40.85	7.46	48.31	74.00	-25.69

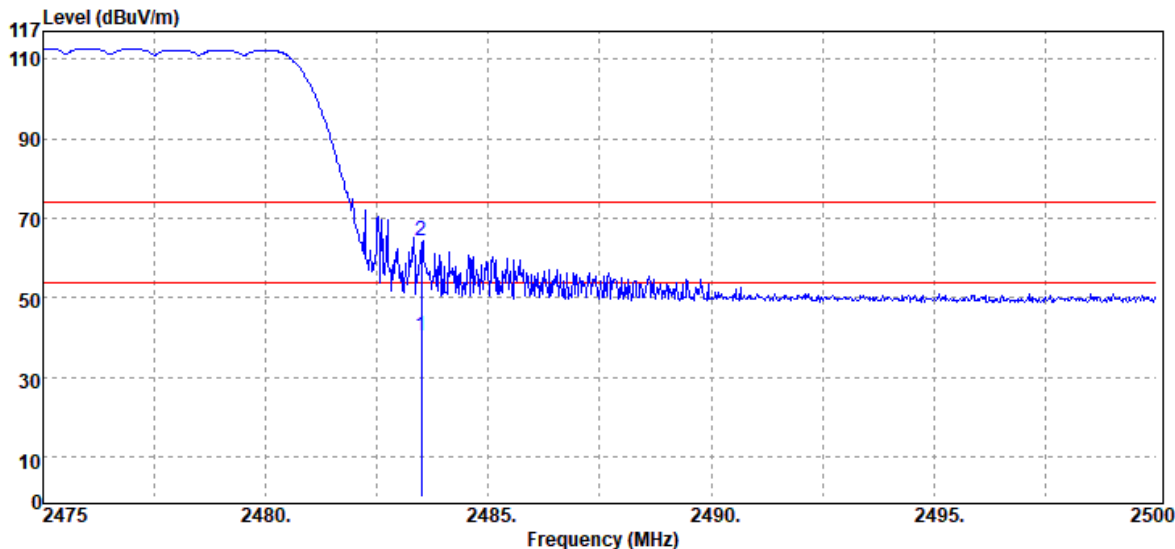
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Report Number :ER/2020/30078
Operation Mode :BR Hopping
Test Frequency :2480 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2020-06-06
Temp./Humi. :26.4/72
Antenna Pol. :HORIZONTAL
Engineer :Thomas



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	33.13	7.46	40.59	54.00	-13.41
2483.50	Peak	56.73	7.46	64.19	74.00	-9.81

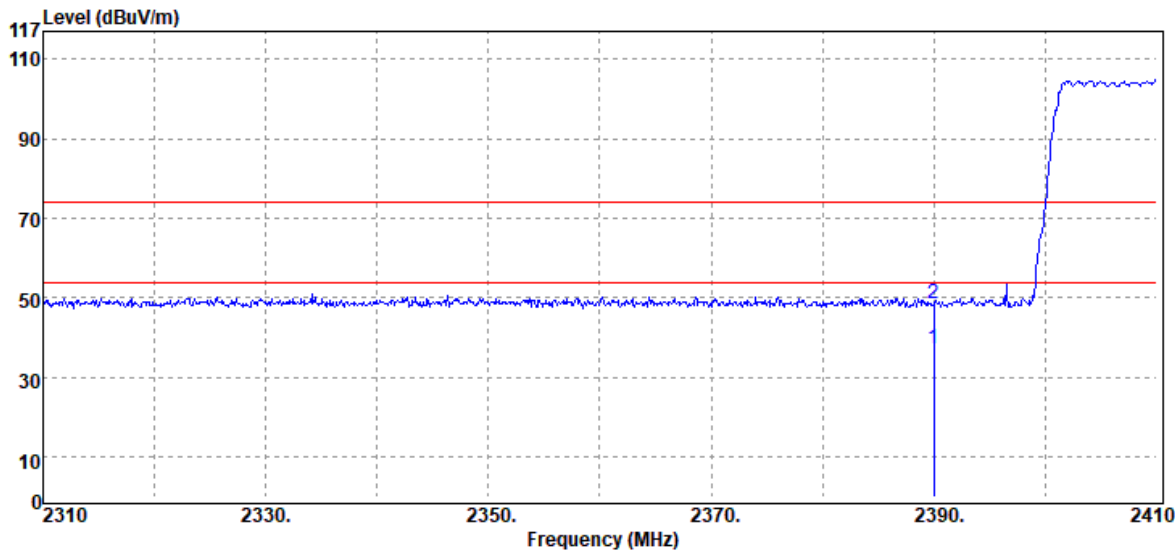
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Report Number :ER/2020/30078
Operation Mode :EDR Hopping
Test Frequency :2402 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2020-06-06
Temp./Humi. :26.4/72
Antenna Pol. :VERTICAL
Engineer :Thomas



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
2390.00	Average	29.77	7.46	37.23	54.00	-16.77
2390.00	Peak	40.97	7.46	48.43	74.00	-25.57

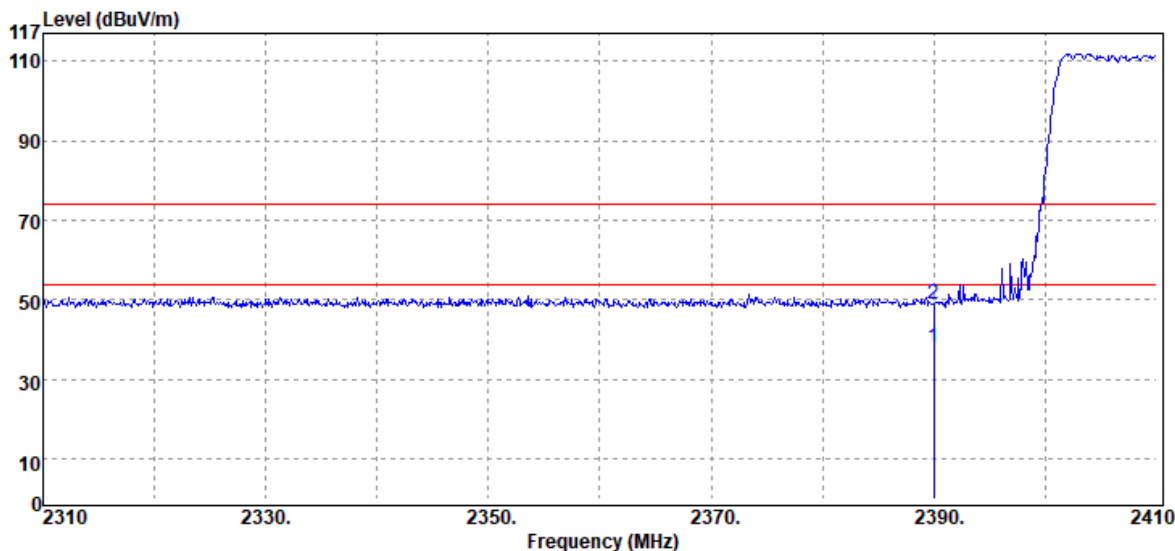
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Report Number :ER/2020/30078
Operation Mode :EDR Hopping
Test Frequency :2402 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2020-06-06
Temp./Humi. :26.4/72
Antenna Pol. :HORIZONTAL
Engineer :Thomas



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	30.74	7.46	38.20	54.00	-15.80
2390.00	Peak	41.61	7.46	49.07	74.00	-24.93

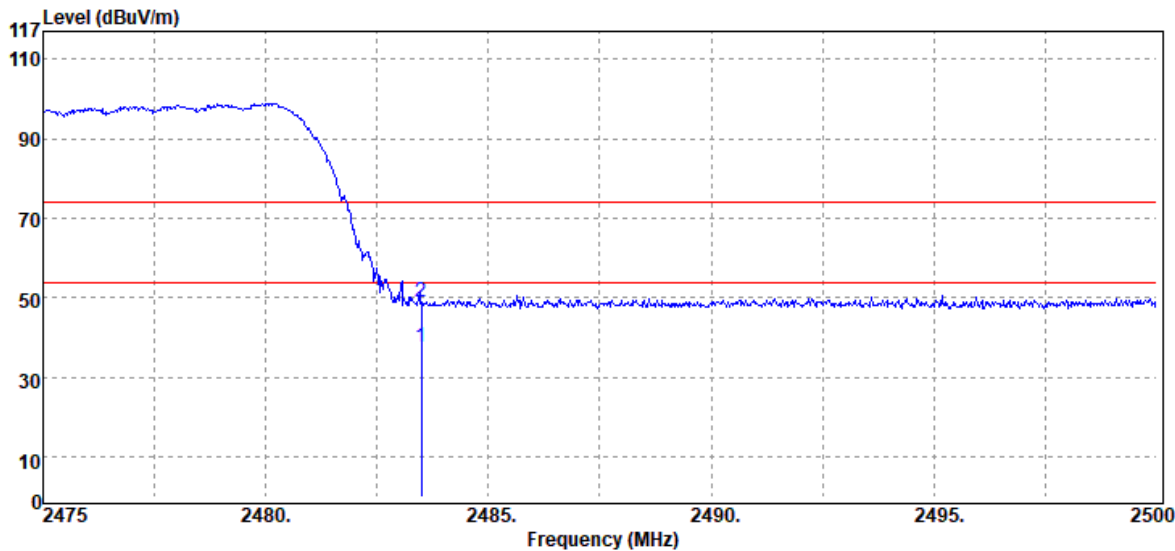
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Report Number :ER/2020/30078
Operation Mode :EDR Hopping
Test Frequency :2480 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2020-06-06
Temp./Humi. :26.4/72
Antenna Pol. :VERTICAL
Engineer :Thomas



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
2483.50	Average	30.02	7.46	37.48	54.00	-16.52
2483.50	Peak	41.70	7.46	49.16	74.00	-24.84

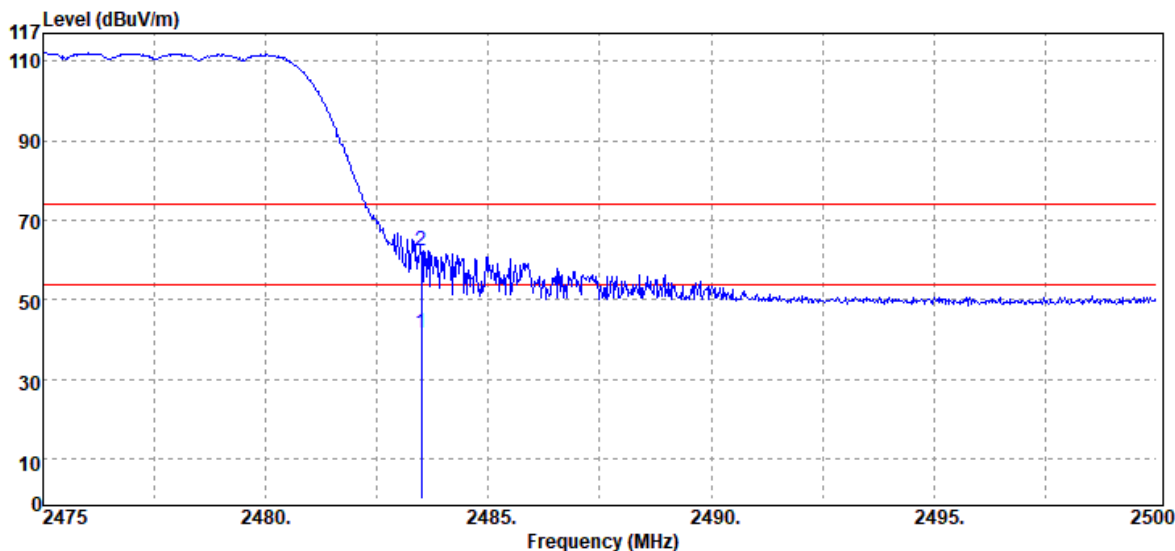
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Report Number :ER/2020/30078
 Operation Mode :EDR Hopping
 Test Frequency :2480 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Date :2020-06-06
 Temp./Humi. :26.4/72
 Antenna Pol. :HORIZONTAL
 Engineer :Thomas



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	34.08	7.46	41.54	54.00	-12.46
2483.50	Peak	55.01	7.46	62.47	74.00	-11.53

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SGS Taiwan Ltd. No. 134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/ 新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司 t (886-2) 2299-3279

f (886-2) 2298-0488

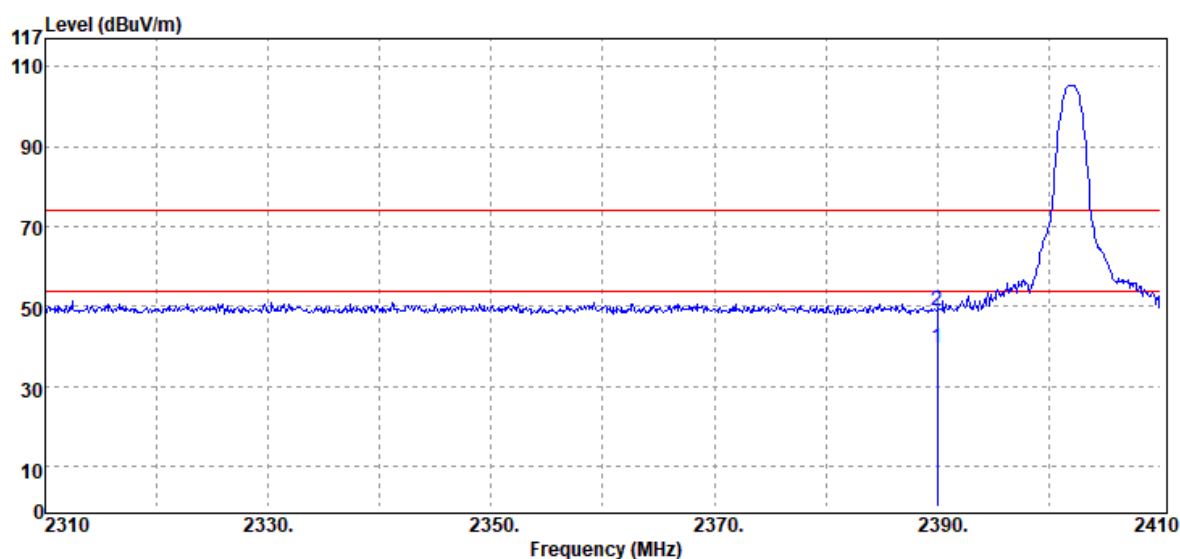
www.sgs.com.tw

Member of SGS Group

10.7.2 Radiated Bandedge Result (Non-Hopping Mode)

Report Number :ER/2020/30078
Operation Mode :BR(1M)
Test Frequency :2402 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2020-06-06
Temp./Humi. :26.4/72
Antenna Pol. :VERTICAL
Engineer :Thomas



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
2390.00	Average	32.05	7.46	39.51	54.00	-14.49
2390.00	Peak	41.45	7.46	48.91	74.00	-25.09

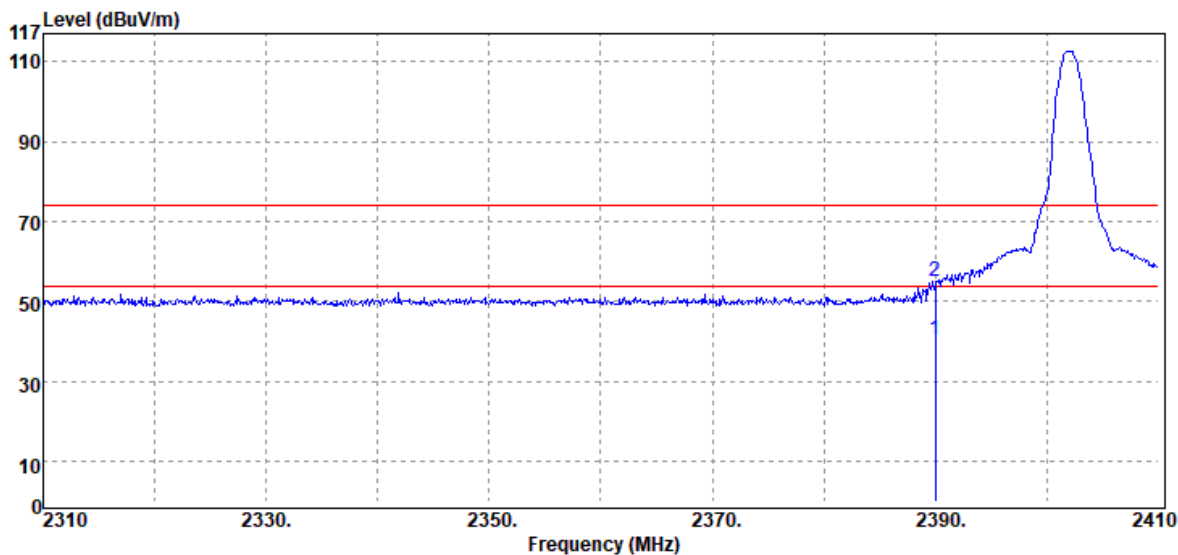
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Report Number :ER/2020/30078
Operation Mode :BR(1M)
Test Frequency :2402 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2020-06-06
Temp./Humi. :26.4/72
Antenna Pol. :HORIZONTAL
Engineer :Thomas



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	33.01	7.46	40.47	54.00	-13.53
2390.00	Peak	47.77	7.46	55.23	74.00	-18.77

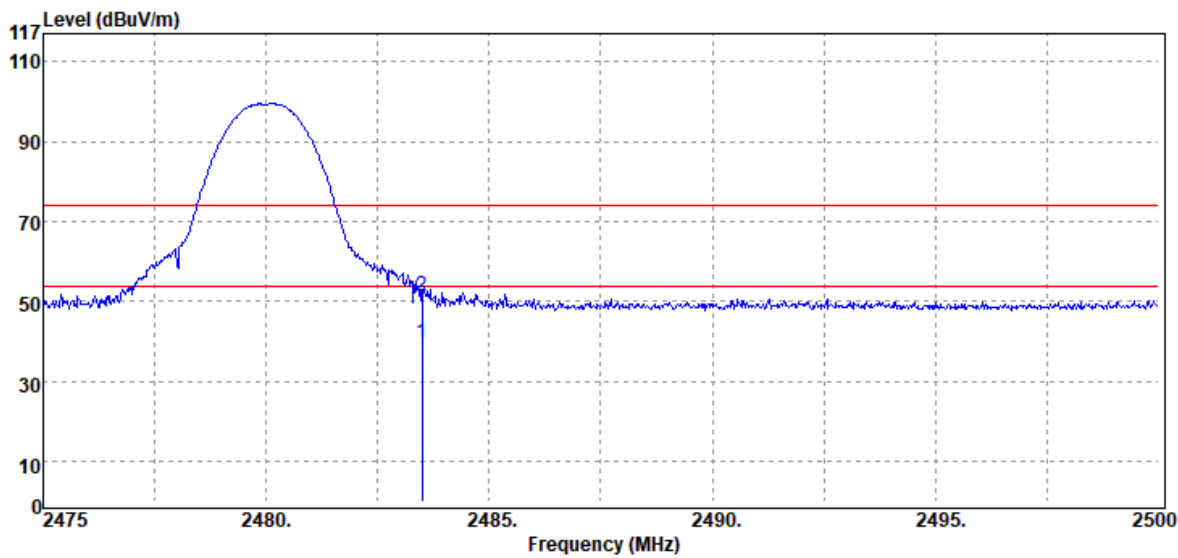
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Report Number :ER/2020/30078
Operation Mode :BR(1M)
Test Frequency :2480 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2020-06-06
Temp./Humi. :26.4/72
Antenna Pol. :VERTICAL
Engineer :Thomas



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	32.21	7.46	39.67	54.00	-14.33
2483.50	Peak	44.13	7.46	51.59	74.00	-22.41

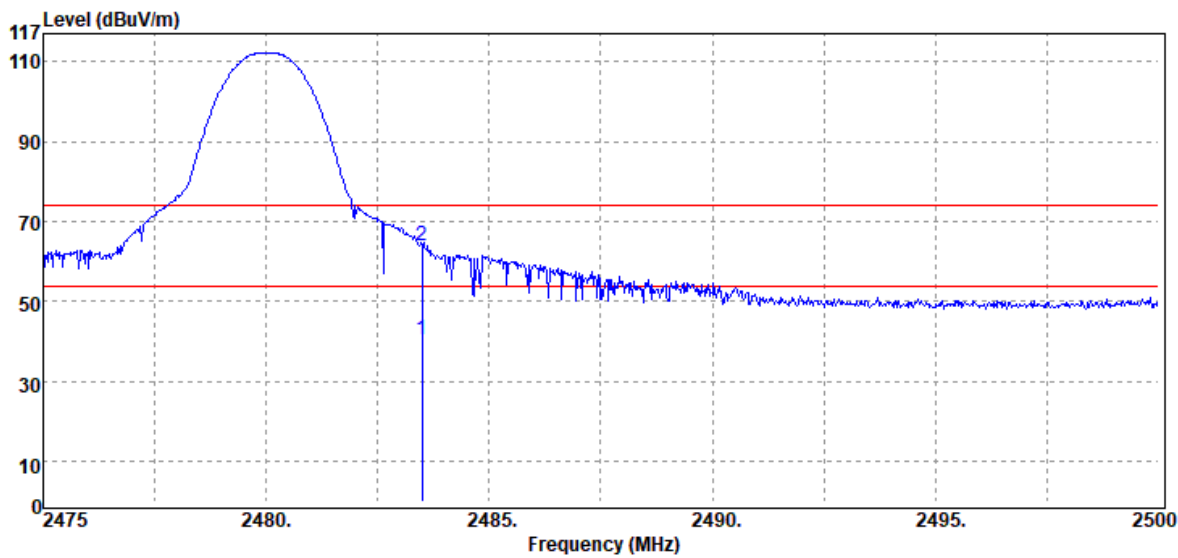
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Report Number :ER/2020/30078
Operation Mode :BR(1M)
Test Frequency :2480 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2020-06-06
Temp./Humi. :26.4/72
Antenna Pol. :HORIZONTAL
Engineer :Thomas



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	33.22	7.46	40.68	54.00	-13.32
2483.50	Peak	56.60	7.46	64.06	74.00	-9.94

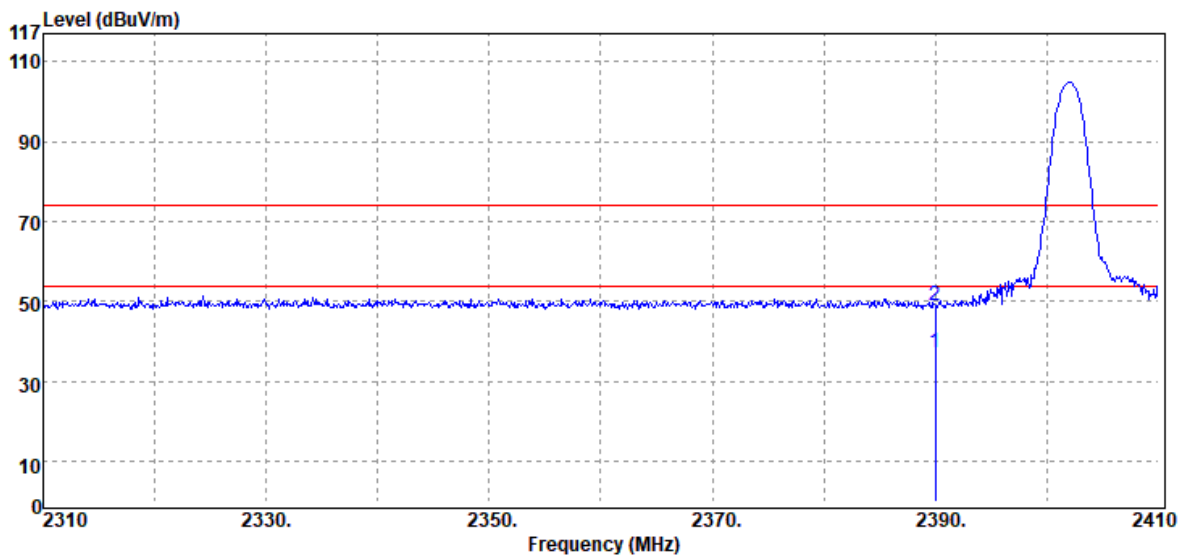
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Report Number :ER/2020/30078
Operation Mode :EDR(3M)
Test Frequency :2402 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2020-06-06
Temp./Humi. :26.4/72
Antenna Pol. :VERTICAL
Engineer :Thomas



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	29.76	7.46	37.22	54.00	-16.78
2390.00	Peak	41.51	7.46	48.97	74.00	-25.03

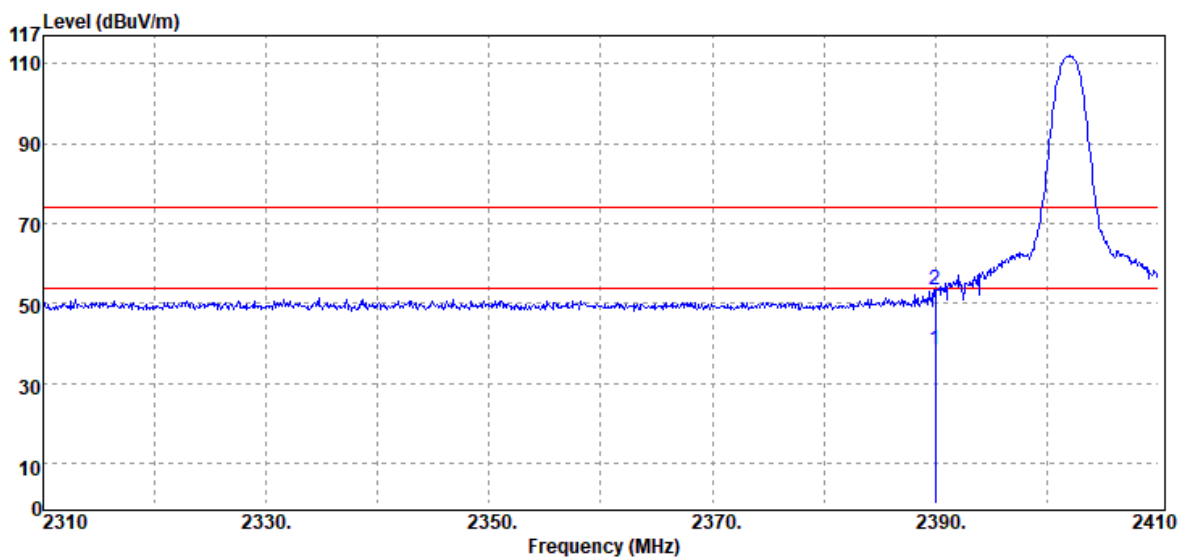
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Report Number :ER/2020/30078
Operation Mode :EDR(3M)
Test Frequency :2402 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2020-06-06
Temp./Humi. :26.4/72
Antenna Pol. :HORIZONTAL
Engineer :Thomas



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	30.81	7.46	38.27	54.00	-15.73
2390.00	Peak	45.92	7.46	53.38	74.00	-20.62

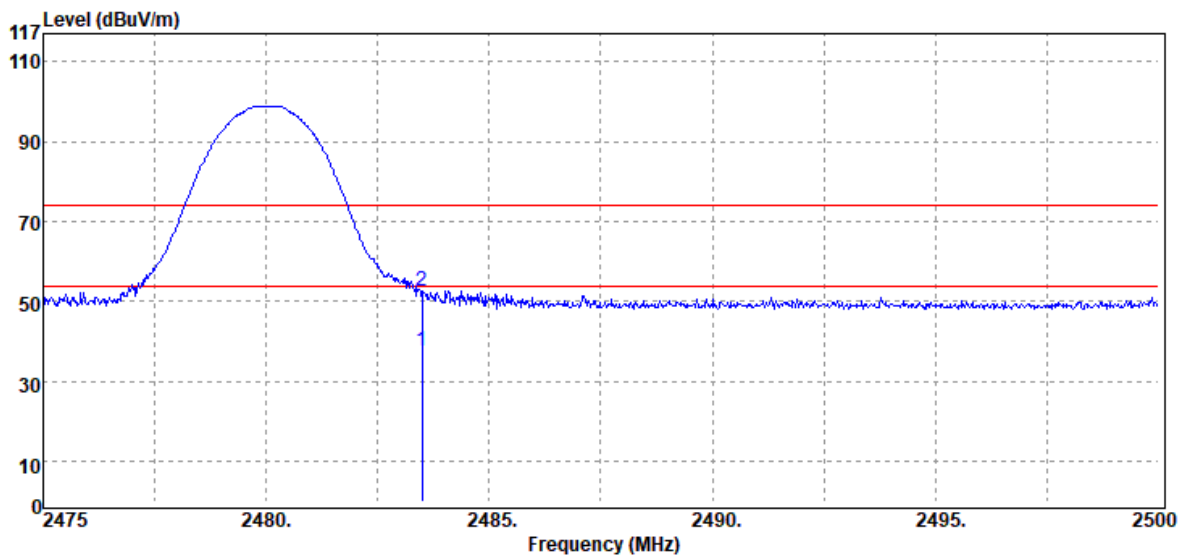
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Report Number :ER/2020/30078
Operation Mode :EDR(3M)
Test Frequency :2480 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2020-06-06
Temp./Humi. :26.4/72
Antenna Pol. :VERTICAL
Engineer :Thomas



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	30.13	7.46	37.59	54.00	-16.41
2483.50	Peak	45.36	7.46	52.82	74.00	-21.18

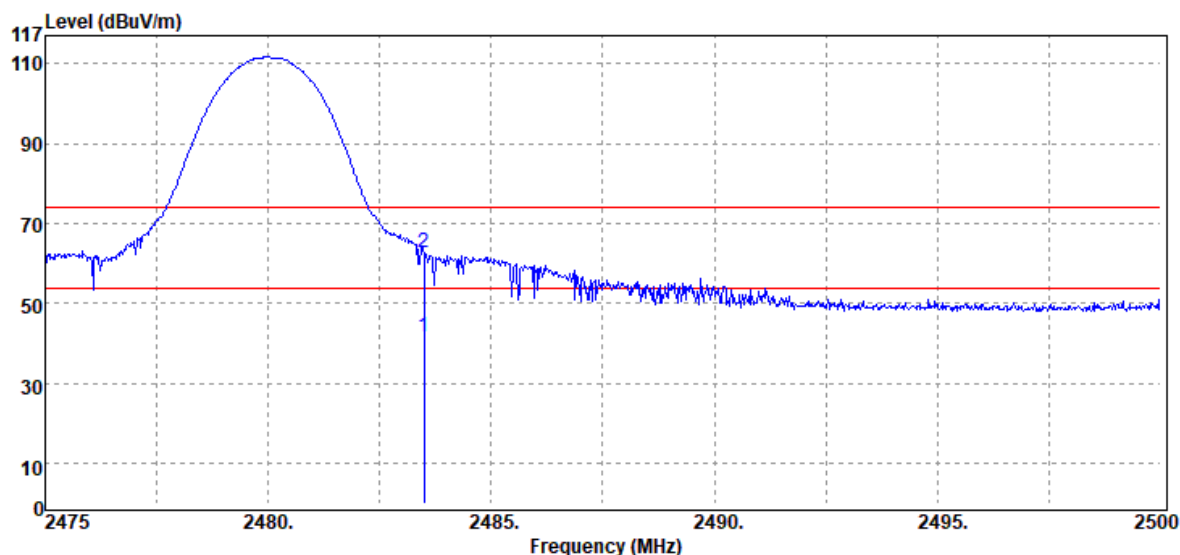
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Report Number :ER/2020/30078
Operation Mode :EDR(3M)
Test Frequency :2480 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2020-06-06
Temp./Humi. :26.4/72
Antenna Pol. :HORIZONTAL
Engineer :Thomas



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	34.19	7.46	41.65	54.00	-12.35
2483.50	Peak	55.31	7.46	62.77	74.00	-11.23

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10.7.3 Radiated Spurious Emission form 30MHz to 1000MHz:

Report Number :ER/2020/30078

Test Date :2020-06-06

Operation Mode :BR(1M)

Temp./Humi. :26.4/72

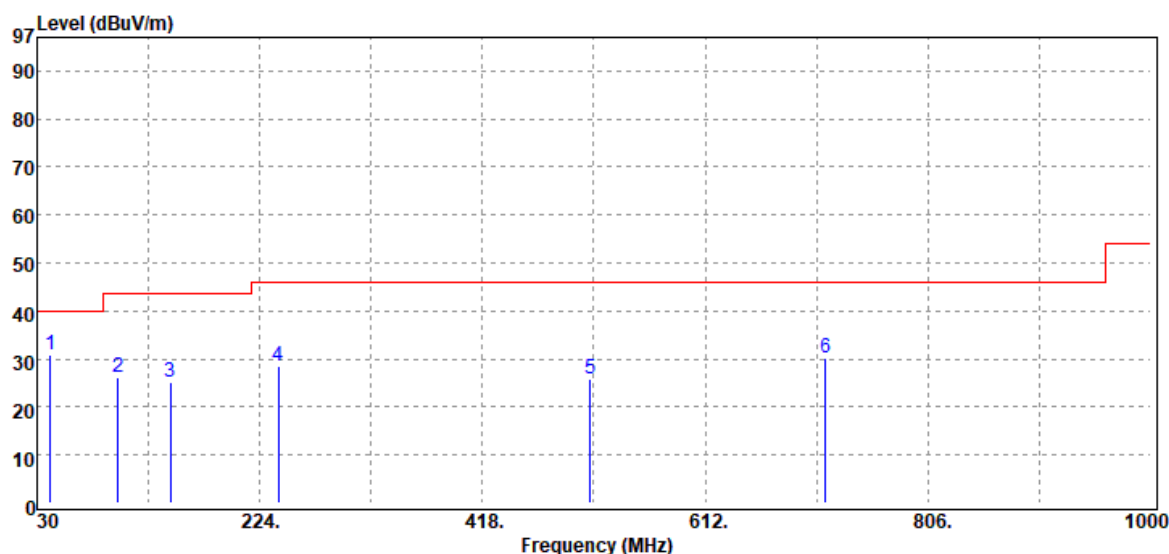
Test Frequency :2441 MHz

Antenna Pol. :VERTICAL

Test Mode :Tx CH Mid

Engineer :Thomas

EUT Pol :E2 Plane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
41.64	Peak	41.63	-10.86	30.77	40.00	-9.23
100.81	Peak	38.57	-12.47	26.10	43.50	-17.40
146.40	Peak	37.17	-11.92	25.25	43.50	-18.25
240.49	Peak	38.53	-10.12	28.41	46.00	-17.59
512.09	Peak	30.54	-4.64	25.90	46.00	-20.10
716.76	Peak	32.66	-2.52	30.14	46.00	-15.86

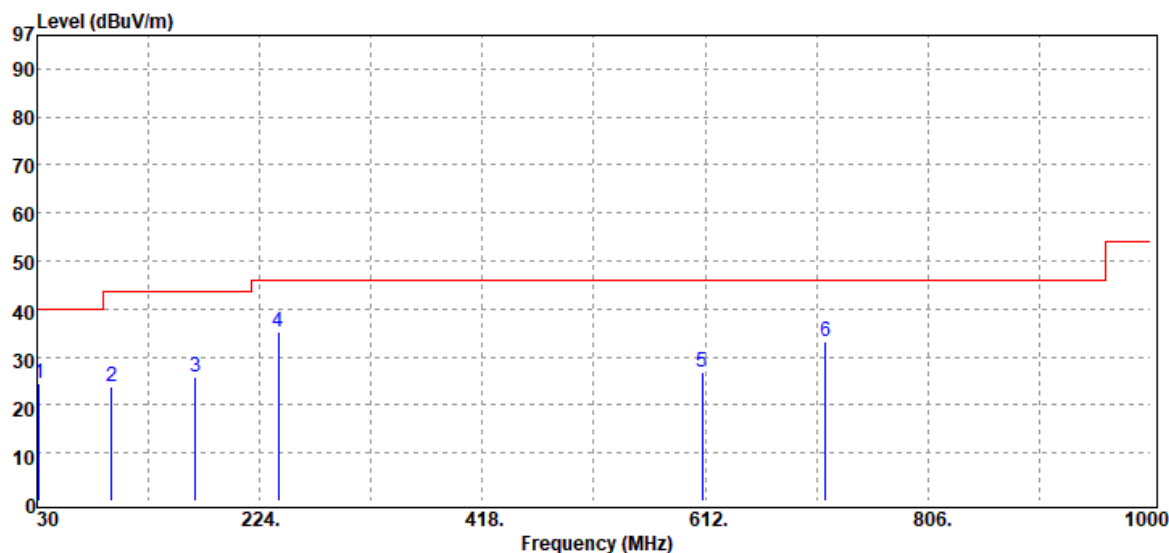
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Report Number :ER/2020/30078
Operation Mode :BR(1M)
Test Frequency :2441 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2020-06-06
Temp./Humi. :26.4/72
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
31.94	Peak	29.76	-5.32	24.44	40.00	-15.56
94.99	Peak	37.06	-13.37	23.69	43.50	-19.81
167.74	Peak	38.52	-12.79	25.73	43.50	-17.77
240.49	Peak	45.20	-10.12	35.08	46.00	-10.92
609.09	Peak	30.20	-3.29	26.91	46.00	-19.09
716.76	Peak	35.64	-2.52	33.12	46.00	-12.88

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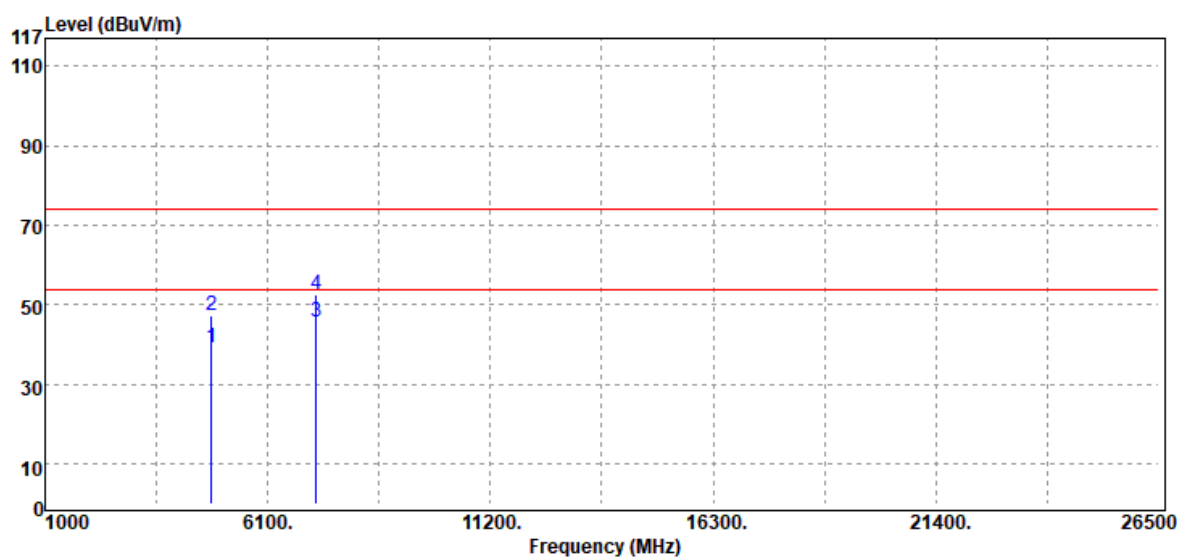
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10.7.4 Radiated Spurious Emission above 1 GHz:

Report Number :ER/2020/30078
 Operation Mode :BR(1M)
 Test Frequency :2402 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Date :2020-06-06
 Temp./Humi. :26.4/72
 Antenna Pol. :VERTICAL
 Engineer :Thomas



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	24.81	14.54	39.35	54.00	-14.65
4804.00	Peak	32.88	14.54	47.42	74.00	-26.58
7206.00	Average	24.86	20.97	45.83	54.00	-8.17
7206.00	Peak	31.61	20.97	52.58	74.00	-21.42

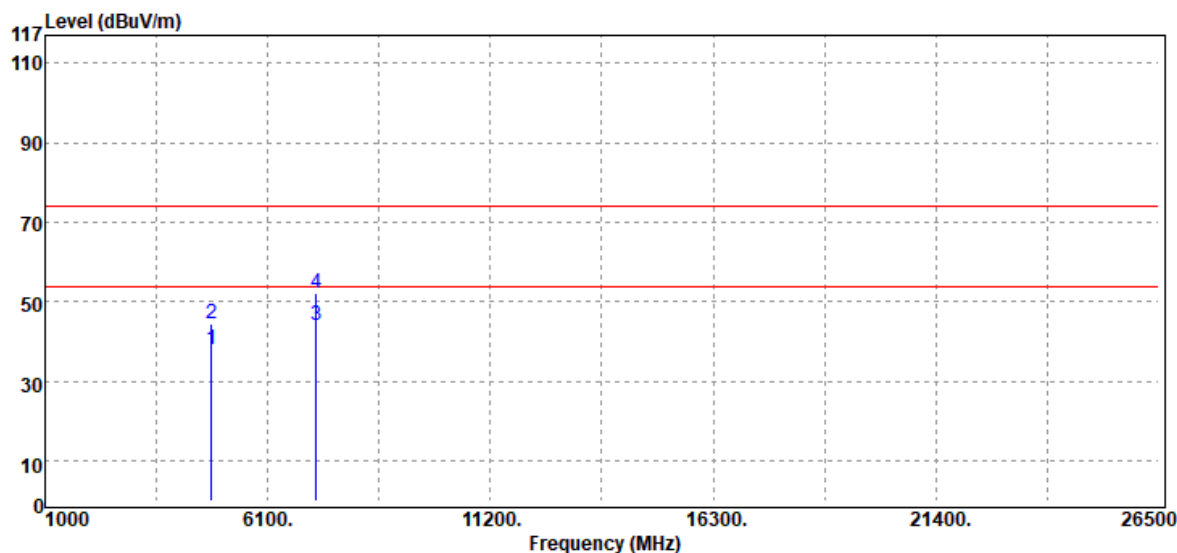
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Report Number :ER/2020/30078
Operation Mode :BR(1M)
Test Frequency :2402 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Date :2020-06-06
Temp./Humi. :26.4/72
Antenna Pol. :HORIZONTAL
Engineer :Thomas



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	23.61	14.54	38.15	54.00	-15.85
4804.00	Peak	30.18	14.54	44.72	74.00	-29.28
7206.00	Average	23.07	20.97	44.04	54.00	-9.96
7206.00	Peak	31.16	20.97	52.13	74.00	-21.87

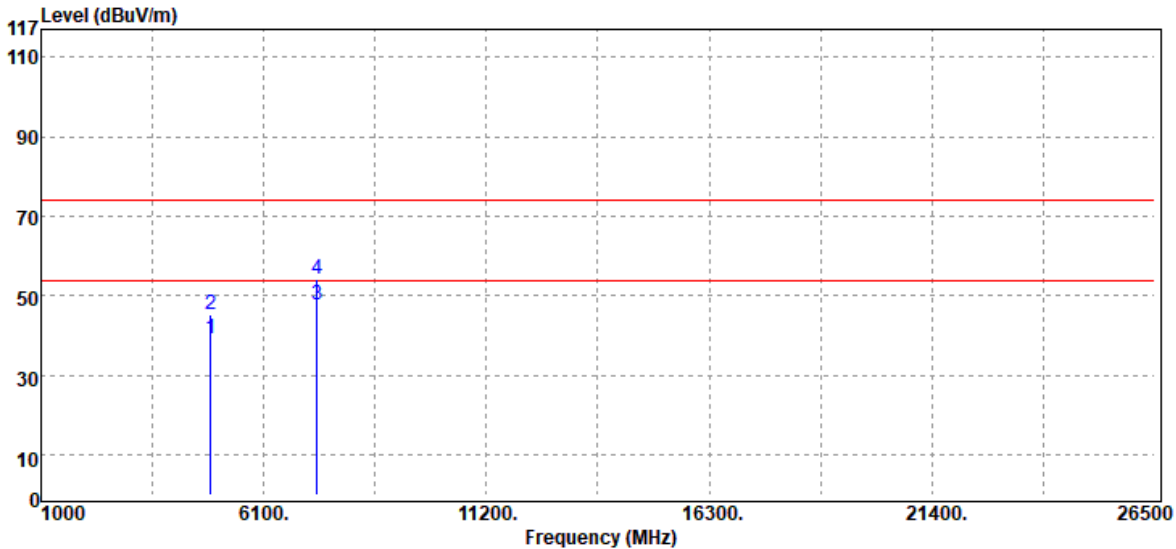
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Report Number :ER/2020/30078
Operation Mode :BR(1M)
Test Frequency :2441 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2020-06-06
Temp./Humi. :26.4/72
Antenna Pol. :VERTICAL
Engineer :Thomas



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
4882.00	Average	24.12	14.96	39.08	54.00	-14.92
4882.00	Peak	30.51	14.96	45.47	74.00	-28.53
7323.00	Average	25.61	22.14	47.75	54.00	-6.25
7323.00	Peak	32.21	22.14	54.35	74.00	-19.65

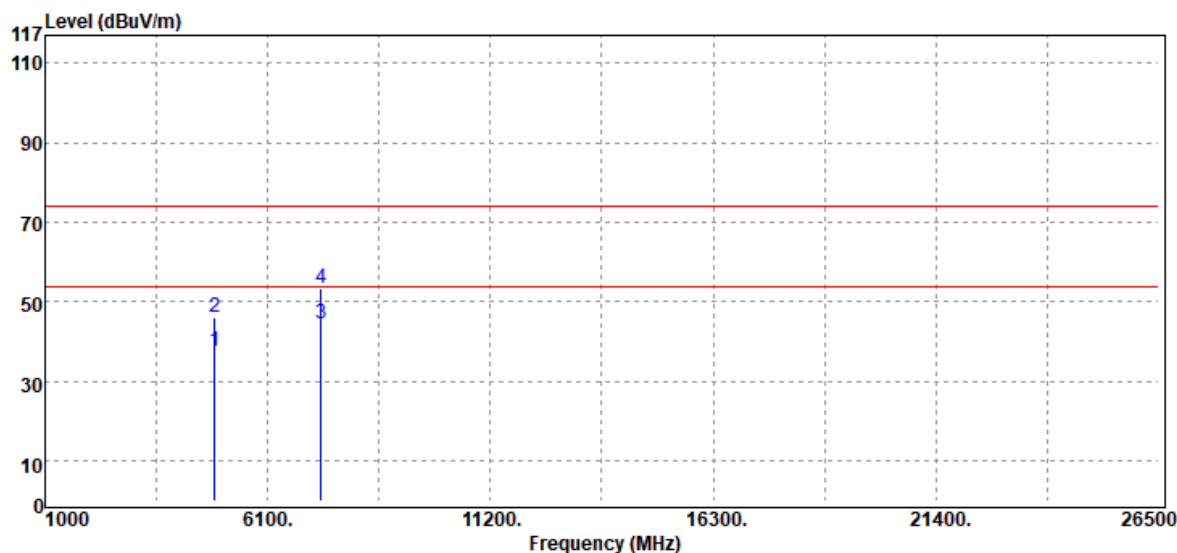
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Report Number :ER/2020/30078
Operation Mode :BR(1M)
Test Frequency :2441 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2020-06-06
Temp./Humi. :26.4/72
Antenna Pol. :HORIZONTAL
Engineer :Thomas



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	22.57	14.96	37.53	54.00	-16.47
4882.00	Peak	30.99	14.96	45.95	74.00	-28.05
7323.00	Average	22.56	22.14	44.70	54.00	-9.30
7323.00	Peak	31.39	22.14	53.53	74.00	-20.47

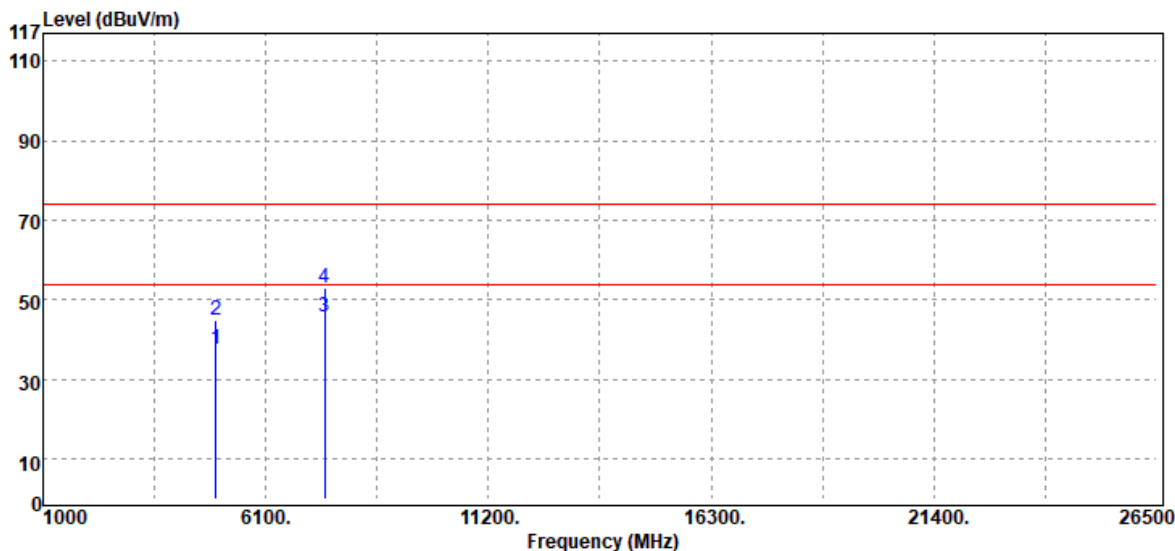
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Report Number :ER/2020/30078
Operation Mode :BR(1M)
Test Frequency :2480 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2020-06-06
Temp./Humi. :26.4/72
Antenna Pol. :VERTICAL
Engineer :Thomas



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	22.86	14.75	37.61	54.00	-16.39
4960.00	Peak	30.03	14.75	44.78	74.00	-29.22
7440.00	Average	24.11	21.50	45.61	54.00	-8.39
7440.00	Peak	31.73	21.50	53.23	74.00	-20.77

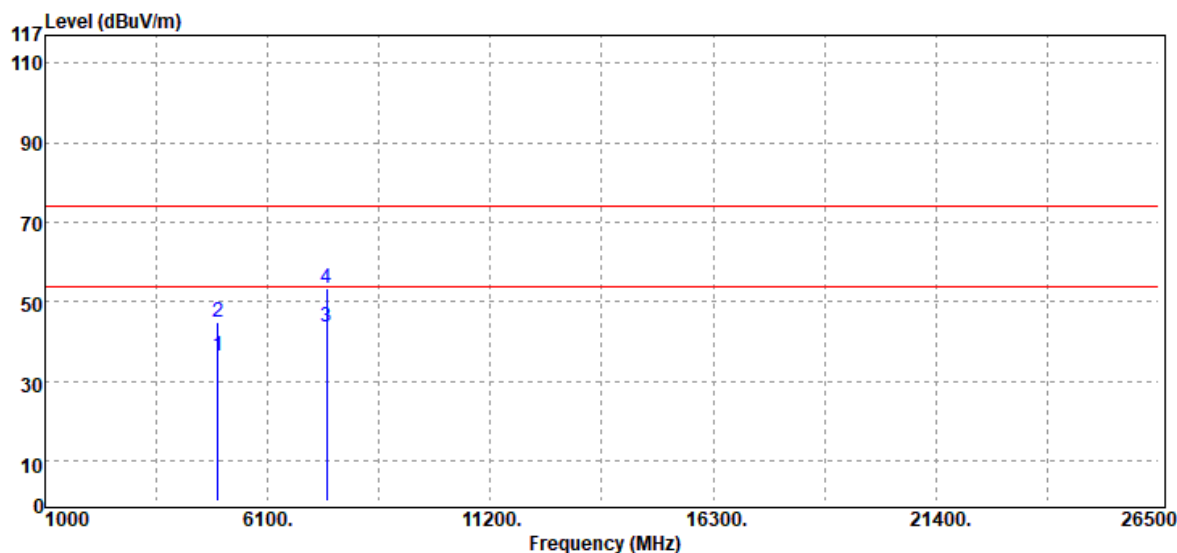
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Report Number :ER/2020/30078
Operation Mode :BR(1M)
Test Frequency :2480 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2020-06-06
Temp./Humi. :26.4/72
Antenna Pol. :HORIZONTAL
Engineer :Thomas



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	21.89	14.75	36.64	54.00	-17.36
4960.00	Peak	30.25	14.75	45.00	74.00	-29.00
7440.00	Average	22.26	21.50	43.76	54.00	-10.24
7440.00	Peak	32.11	21.50	53.61	74.00	-20.39

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11 FREQUENCY SEPARATION

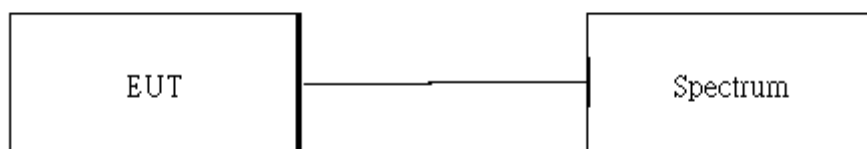
11.1 Standard Applicable

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

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	05/06/2020	05/05/2021
DC Power Supply	Agilent	E3640A	MY40005907	10/22/2019	10/21/2020
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021

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

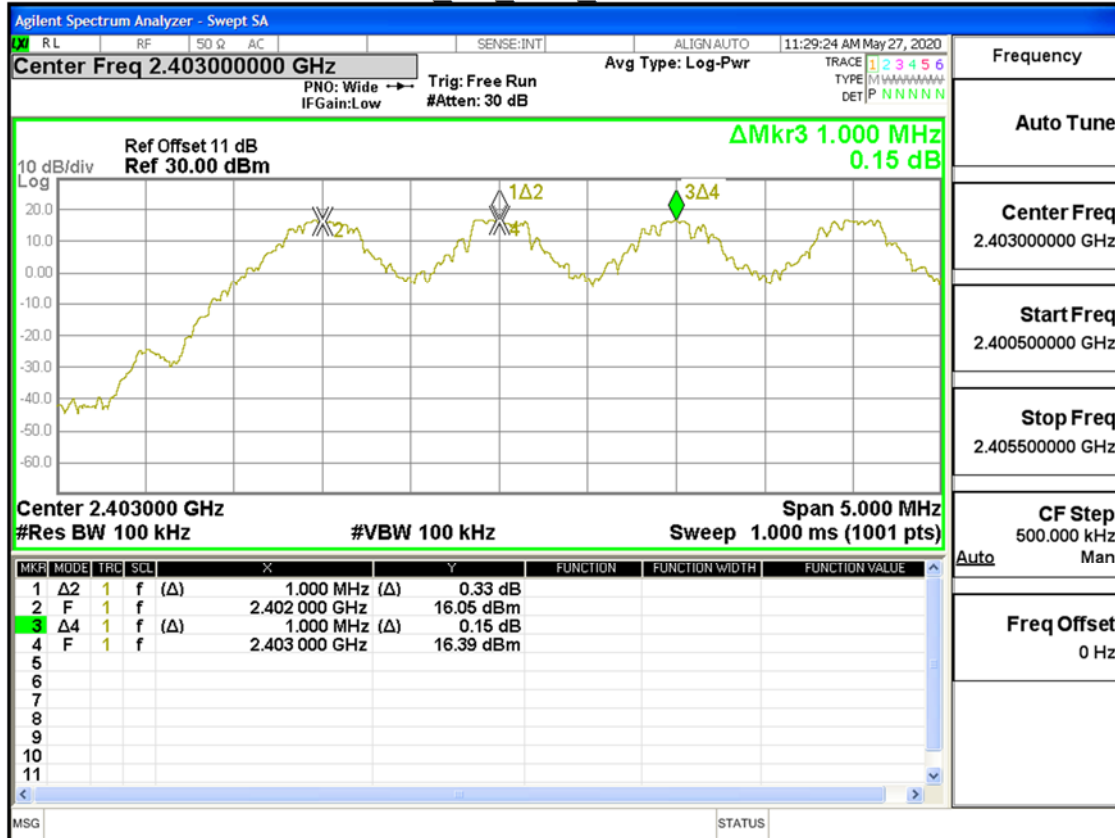
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11.6 Frequency Separation Test Plots

GFSK 1M DH5 CH0CH1CH2



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12 NUMBER OF HOPPING FREQUENCY

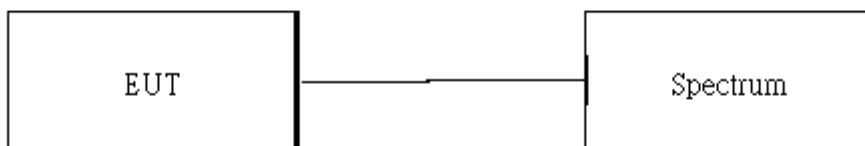
12.1 Standard Applicable

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

12.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	05/06/2020	05/05/2021
DC Power Supply	Agilent	E3640A	MY40005907	10/22/2019	10/21/2020
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021

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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台灣檢驗科技股份有限公司 t (886-2) 2299-3279

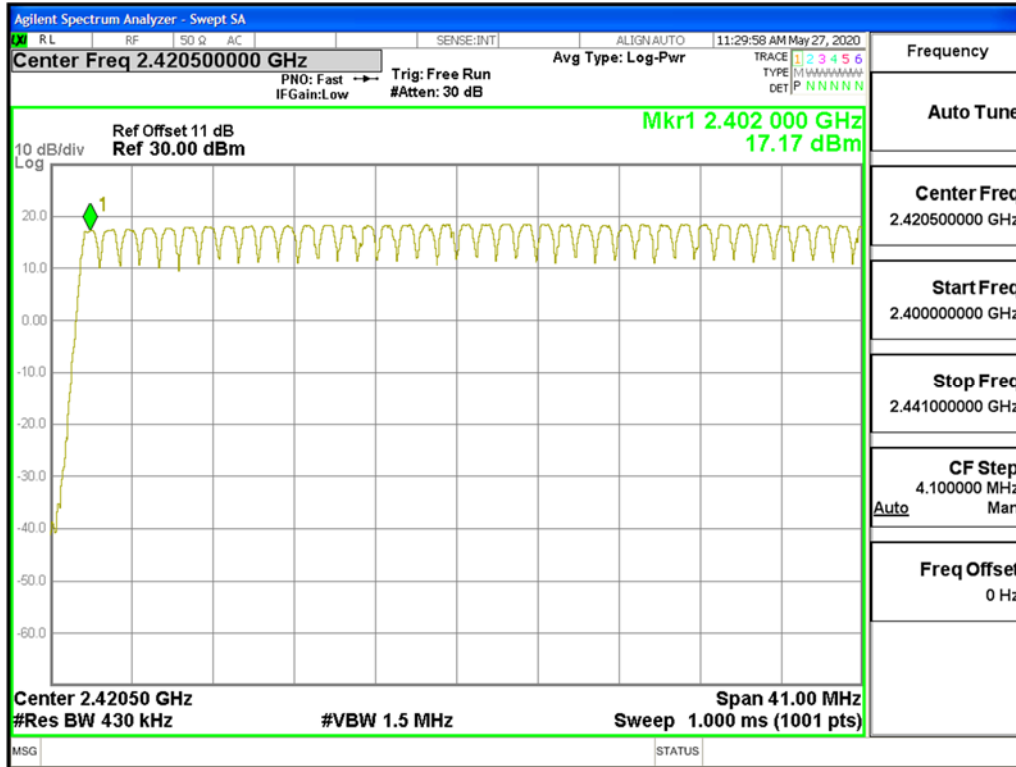
f (886-2) 2298-0488

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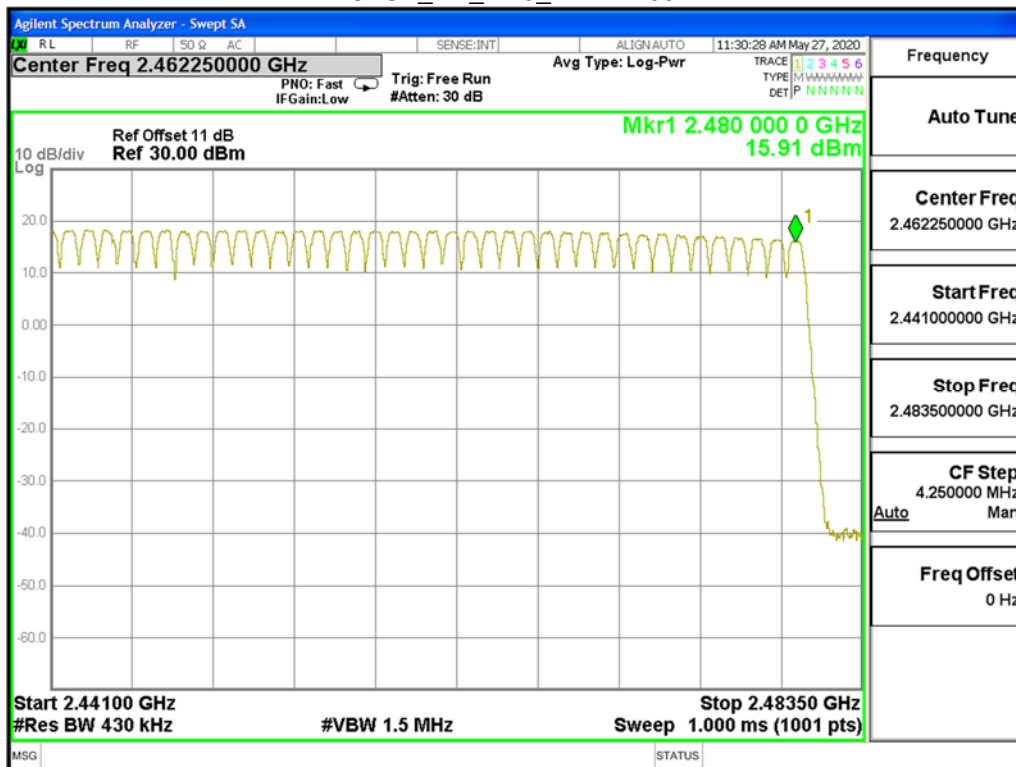
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12.6 Channel Number Test Plots

GFSK_1M_DH5_2400-2441



GFSK_1M_DH5_2441-2480



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13 TIME OF OCCUPANCY (DWEELL TIME)

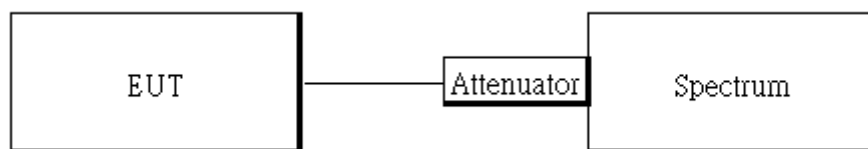
13.1 Standard Applicable

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

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	05/06/2020	05/05/2021
DC Power Supply	Agilent	E3640A	MY40005907	10/22/2019	10/21/2020
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021

13.3 Test Set-up



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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

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.

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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	123.20	400ms	2.597	3.00
	DH3	262.40	400ms	0.610	1.00
	DH5	307.20	400ms	0.347	1.00
Mid	DH1	121.60	400ms	2.632	3.00
	DH3	262.40	400ms	0.610	1.00
	DH5	308.80	400ms	0.345	1.00
High	DH1	121.60	400ms	2.632	3.00
	DH3	262.40	400ms	0.610	1.00
	DH5	307.20	400ms	0.003	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	2.564	3.00
	2DH3	260.80	400ms	0.613	1.00
	2DH5	307.20	400ms	0.347	1.00

8-DPSK (3Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)	1/T (kHz)	VBW setting (kHz)
Mid	3DH1	124.80	400ms	2.564	3.00
	3DH3	260.80	400ms	0.613	1.00
	3DH5	308.80	400ms	0.345	1.00

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GFSK (1Mbps):

CH Low	DH1 time slot	=	0.385	*	(1600/2/79)	*	31.6	=	123.20	(ms)
	DH3 time slot	=	1.640	*	(1600/4/79)	*	31.6	=	262.40	(ms)
	DH5 time slot	=	2.880	*	(1600/6/79)	*	31.6	=	307.20	(ms)
CH Mid	DH1 time slot	=	0.380	*	(1600/2/79)	*	31.6	=	121.60	(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	=	0.380	*	(1600/2/79)	*	31.6	=	121.60	(ms)
	DH3 time slot	=	1.640	*	(1600/4/79)	*	31.6	=	262.40	(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	=	1.630	*	(1600/4/79)	*	31.6	=	260.80	(ms)
	2DH5 time slot	=	2.880	*	(1600/6/79)	*	31.6	=	307.20	(ms)

8-DPSK (3Mbps):

CH Mid	3DH1 time slot	=	0.390	*	(1600/2/79)	*	31.6	=	124.80	(ms)
	3DH3 time slot	=	1.630	*	(1600/4/79)	*	31.6	=	260.80	(ms)
	3DH5 time slot	=	2.895	*	(1600/6/79)	*	31.6	=	308.80	(ms)

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

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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	153.60	400ms
8-DPSK (3Mbps) for AFH Mode			
Hopping Channel Number	PACKET TYPE	Measurement Result (ms)	Limit (ms)
20	3DH5	154.40	400ms

13.6 Measurement Result

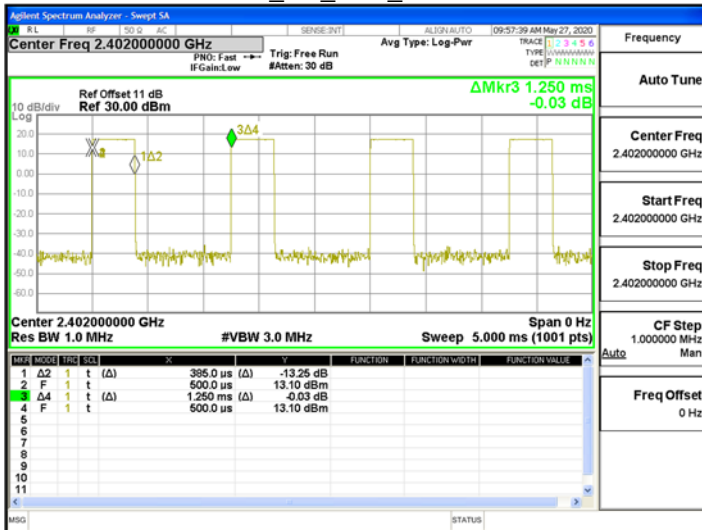
Note: Refer to next page for plots.

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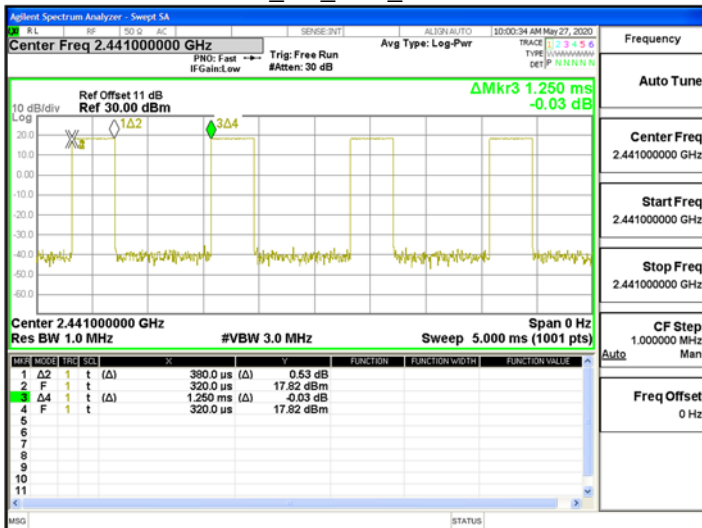
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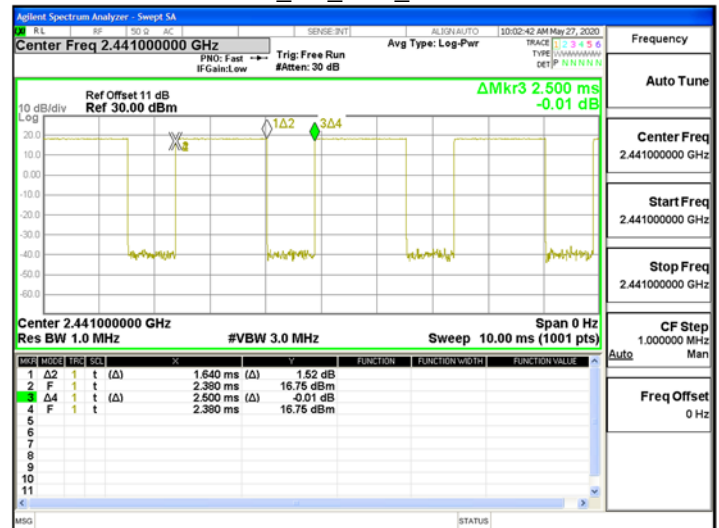
GFSK_1M_DH3_2402MHz



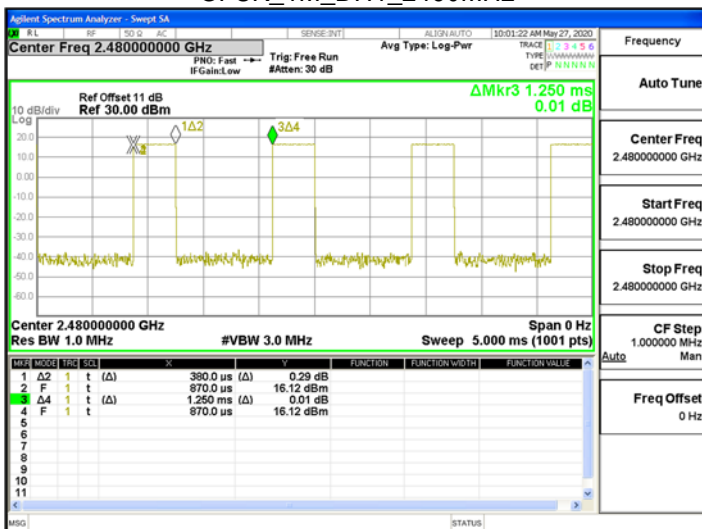
GFSK_1M_DH1_2441MHz



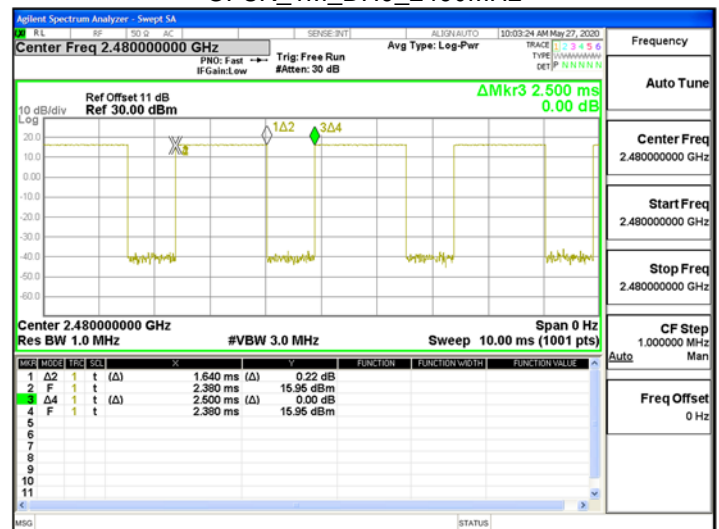
GFSK_1M_DH3_2441MHz



GFSK_1M_DH1_2480MHz



GFSK_1M_DH3_2480MHz

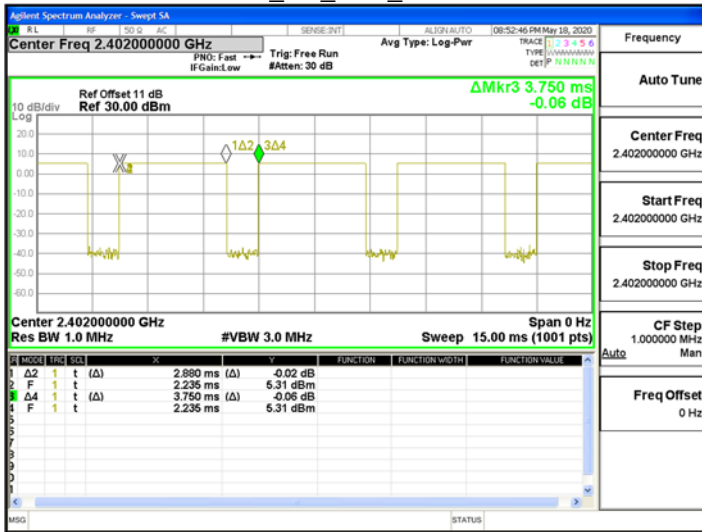
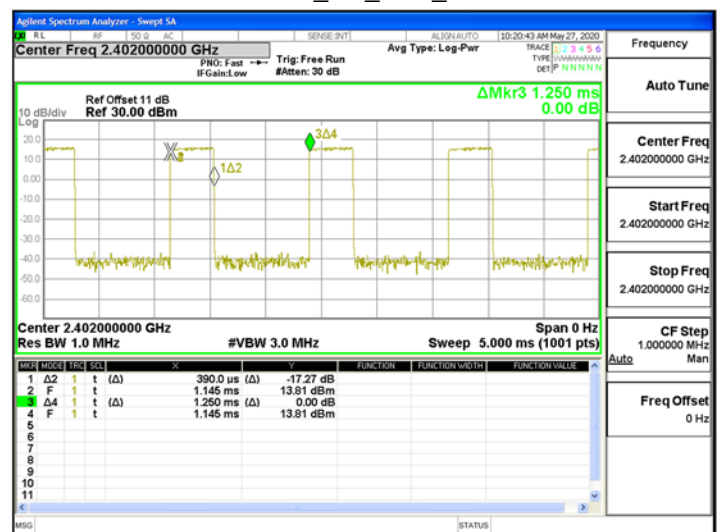


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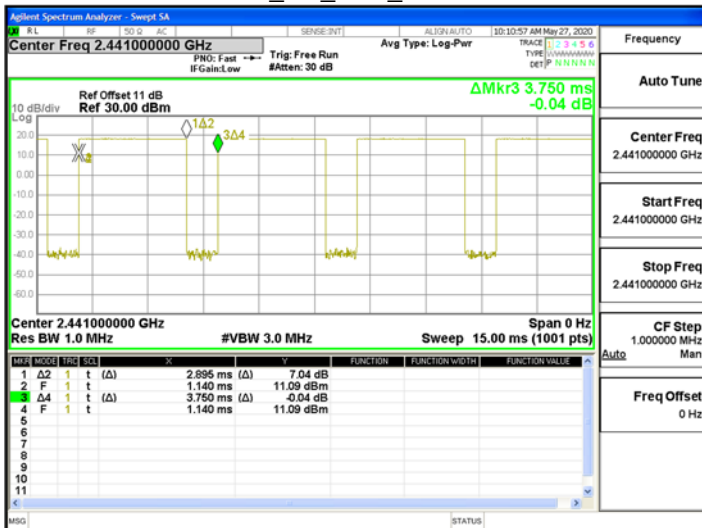
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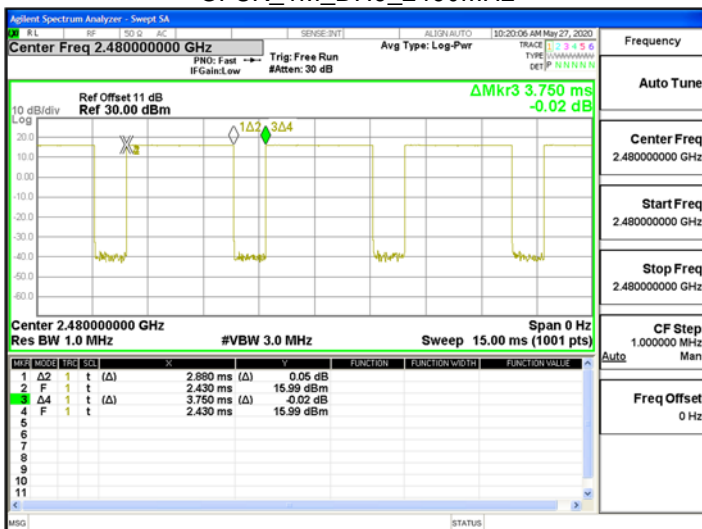
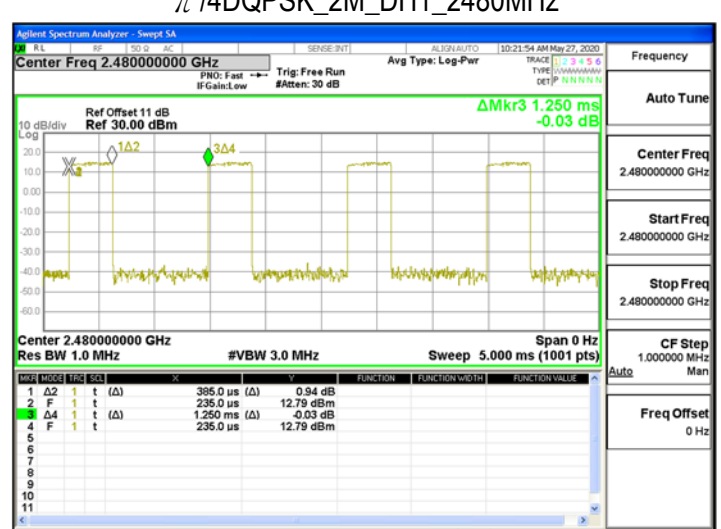
GFSK_1M_DH5_2402MHz


 π /4DQPSK_2M_DH1_2402MHz


GFSK_1M_DH5_2441MHz


 π /4DQPSK_2M_DH1_2441MHz

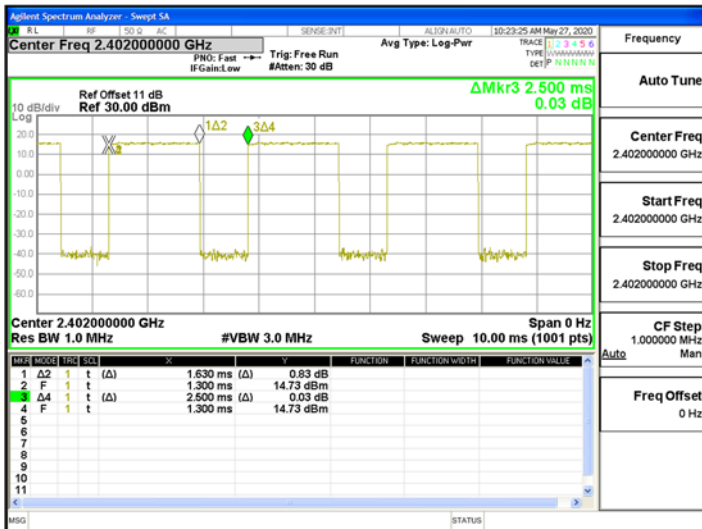
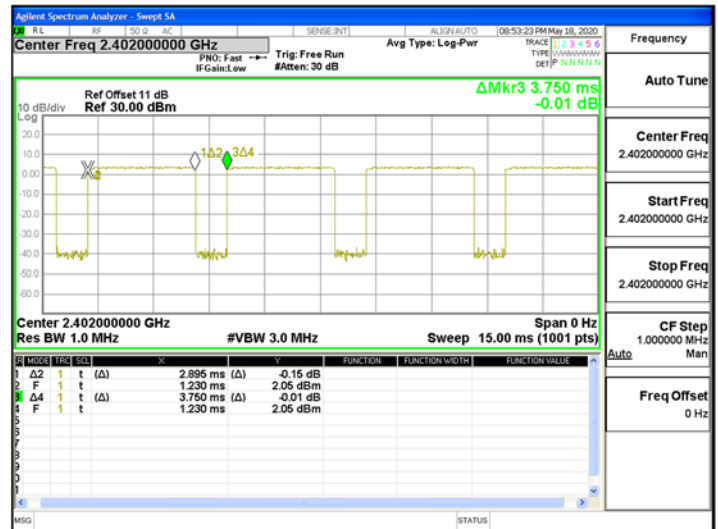
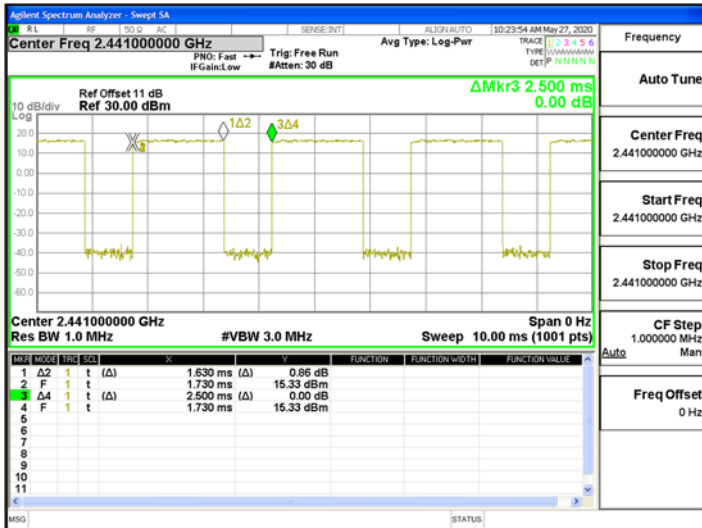
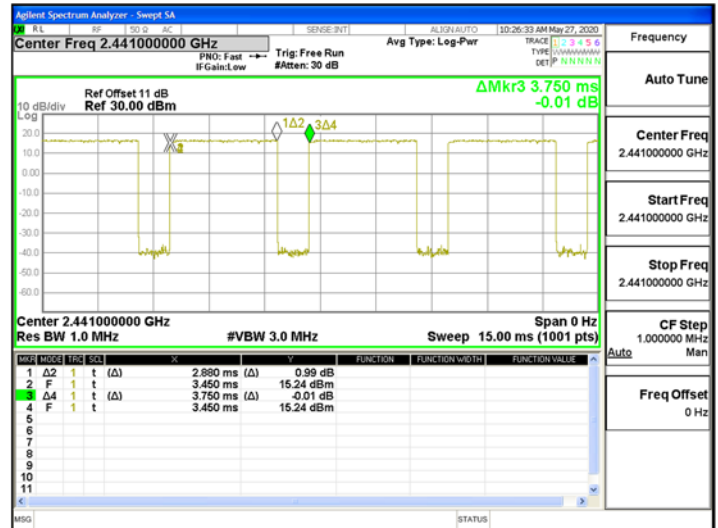
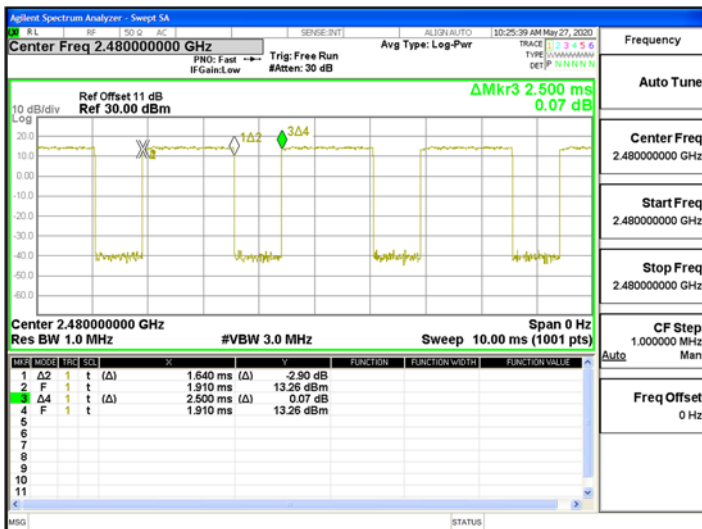
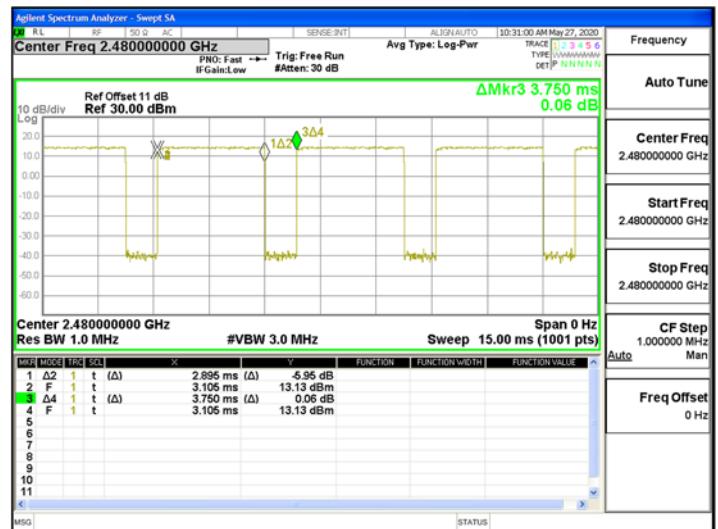

GFSK_1M_DH5_2480MHz


 π /4DQPSK_2M_DH1_2480MHz


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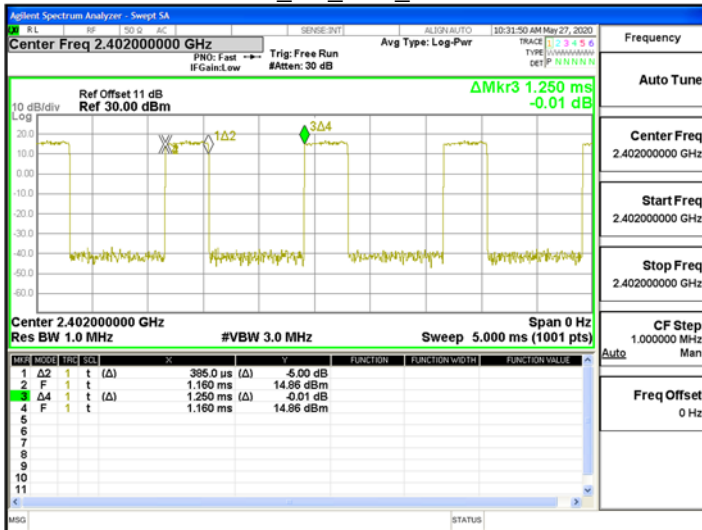
π /4DQPSK_2M_DH3_2402MHz π /4DQPSK_2M_DH5_2402MHz π /4DQPSK_2M_DH3_2441MHz π /4DQPSK_2M_DH5_2441MHz π /4DQPSK_2M_DH3_2480MHz π /4DQPSK_2M_DH5_2480MHz

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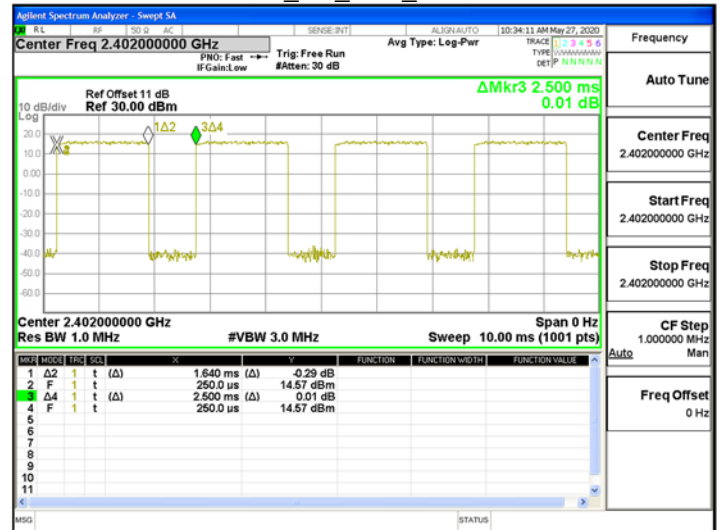
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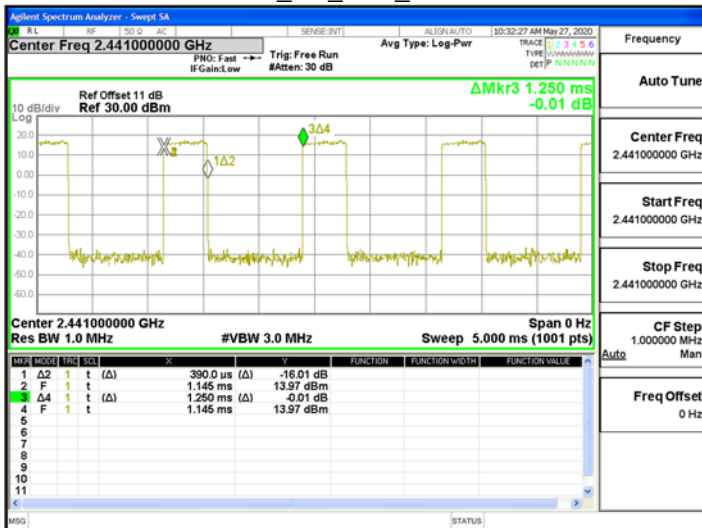
8DPSK_3M_DH1_2402MHz



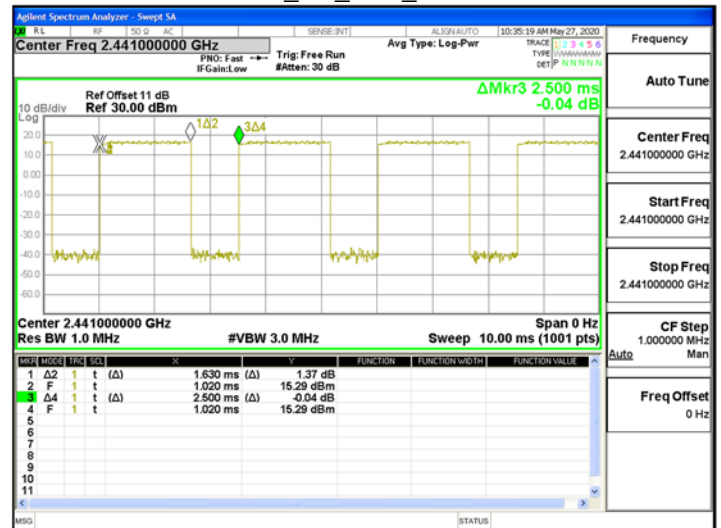
8DPSK_3M_DH3_2402MHz



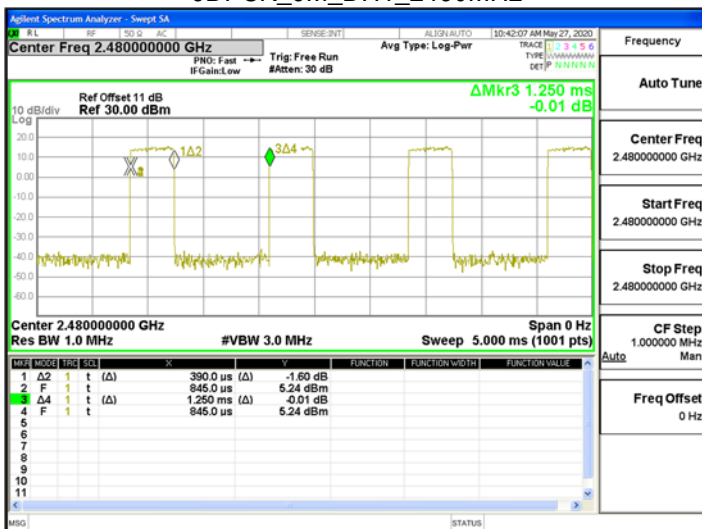
8DPSK_3M_DH1_2441MHz



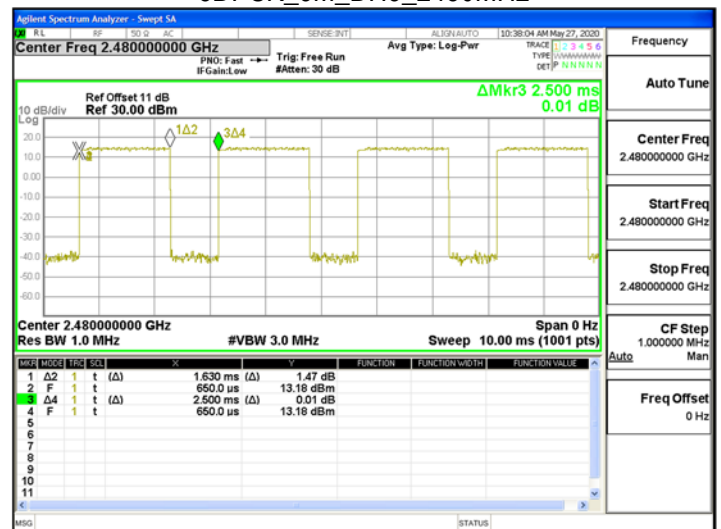
8DPSK_3M_DH3_2441MHz



8DPSK_3M_DH1_2480MHz



8DPSK_3M_DH3_2480MHz



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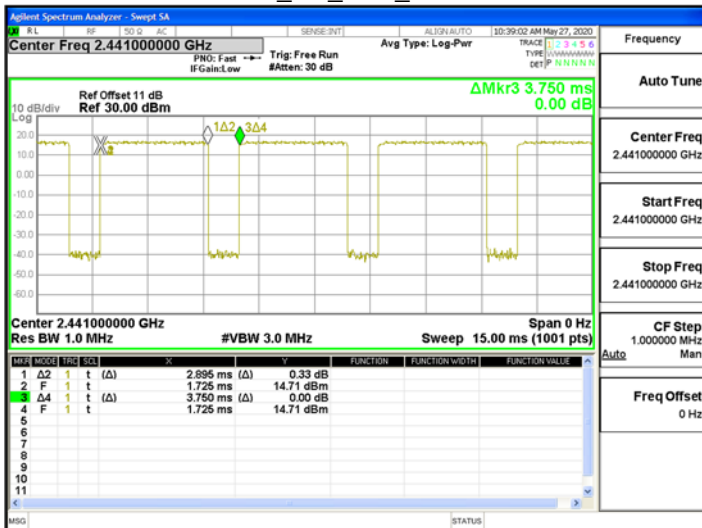
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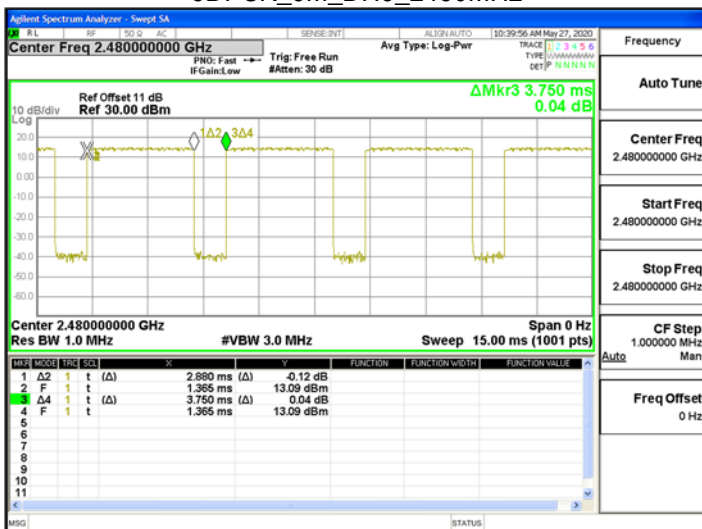
8DPSK_3M_DH5_2402MHz



8DPSK_3M_DH5_2441MHz



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 as permanently attached and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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