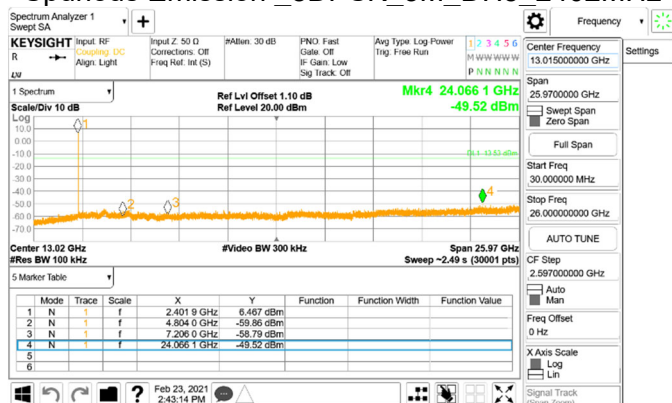
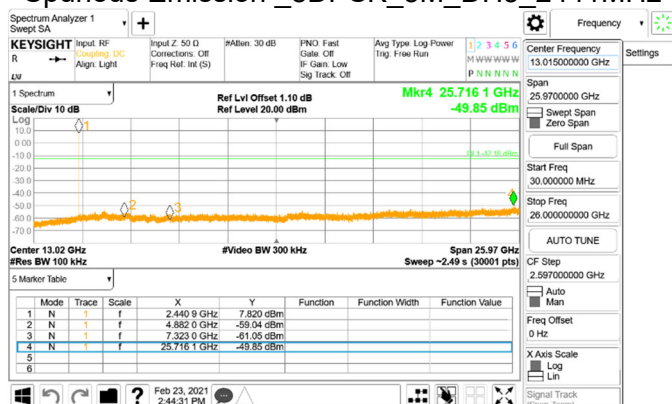


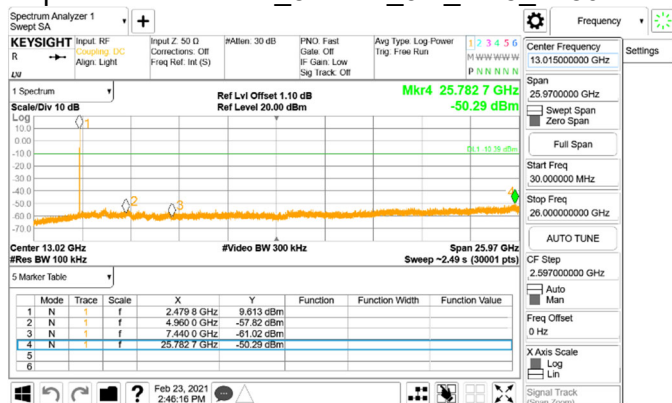
Spurious Emission _8DPSK_3M_DH5 2402MHz



Spurious Emission _8DPSK_3M_DH5 2441MHz



Spurious Emission _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

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR/BRAND	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	SCHWAZBEC K	BBHA9170	184	12/11/2020	12/10/2021
Site Cal	SGS	SAC I chamber	N/A	01/01/2021	12/31/2021
Horn Antenna	Schwarzbeck	BBHA9120 D	D803	12/17/2020	12/16/2021
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	01/13/2021	01/12/2022
Loop Antenna	ETS.LINDGR EN	6502	148045	10/19/2020	10/18/2021
Spectrum Analyzer	Agilent	E4446A	MY51100003	10/29/2020	10/28/2021
Test Software	audix	e3	Ver. 6.11-20180413	01/01/2021	12/31/2021
EMI Test Receiver	R&S	ESCI 7	100759	07/13/2020	07/12/2021
Pre-Amplifier	EMC Instruments	EMC184045 B	980135	12/16/2020	12/15/2021
Pre-Amplifier	HP	8449B	3008A01973	12/16/2020	12/15/2021
Pre-Amplifier	HP	8447D	2944A09469	12/16/2020	12/15/2021
Attenuator	Mini-Circuit	BW-S10W2+	4	12/16/2020	12/15/2021
Filter 2400-2483.5 MHz	EWT	EWT-14-0166	M1	12/16/2020	12/15/2021
High Pass Filter	WI	WHKX4.0/18G-10SS	22	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	EMC 104-SM-SM-2000	160123	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2630/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY22962/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	SN 520430/2	12/16/2020	12/15/2021

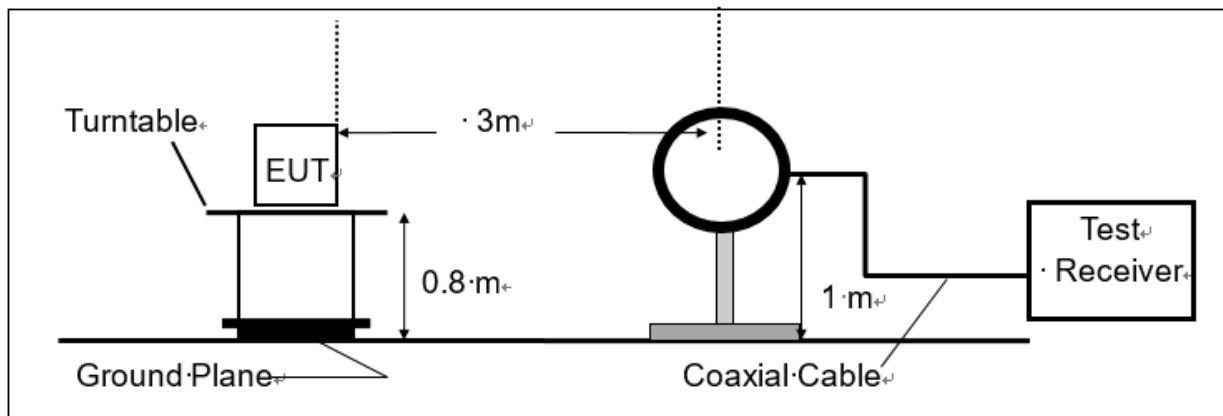
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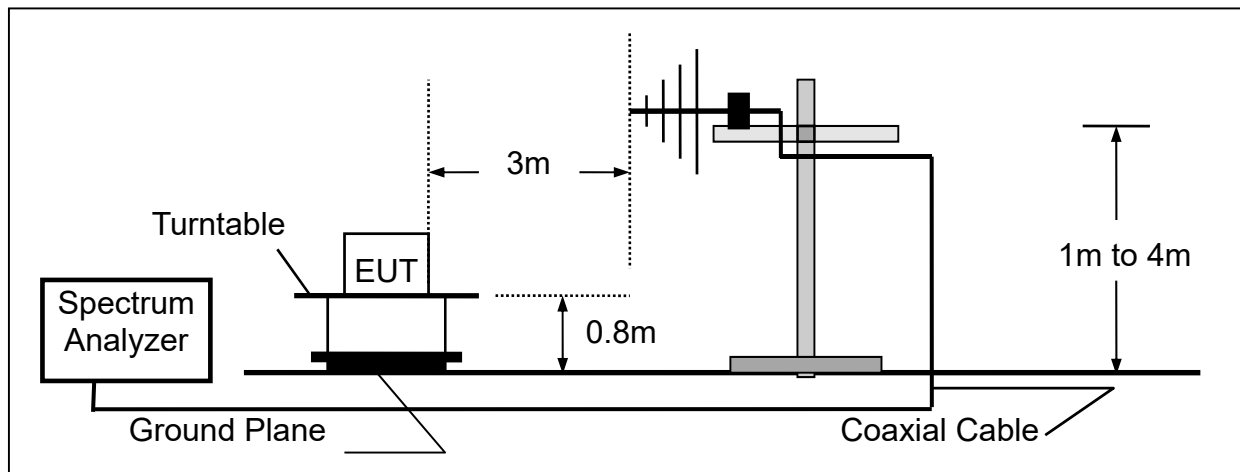
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10.3 Test SET-UP

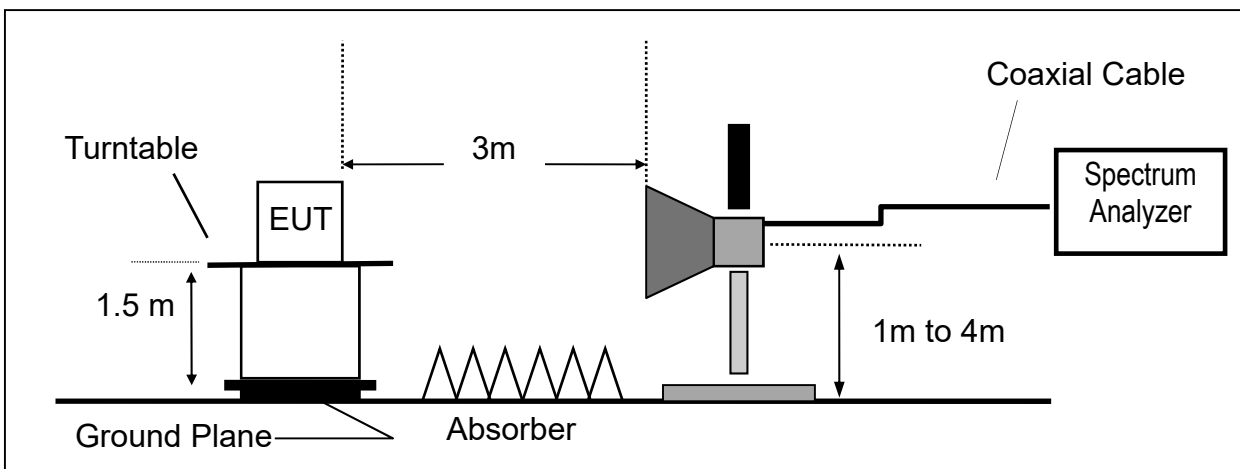
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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

Report Number :ER/2021/10053

Test Site :SAC I Chamber

Operation Mode :BR Hopping

Test Date :2021-02-23

Test Frequency :2402 MHz

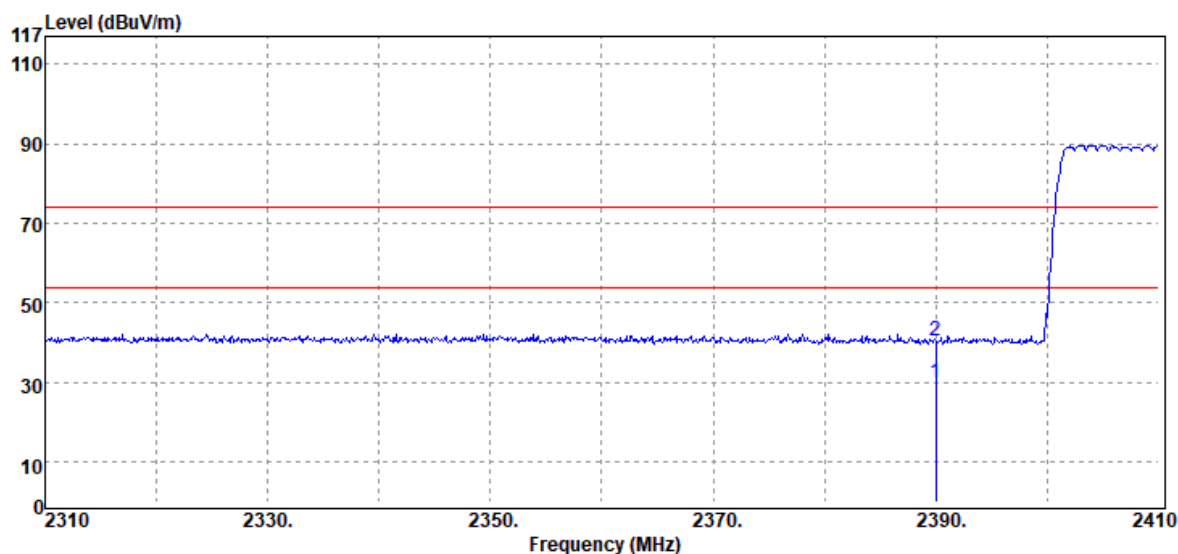
Temp./Humi. :22.6/54

Test Mode :Bandedge CH Low

Antenna Pol. :VERTICAL

EUT Pol :E2 Plane

Engineer :Neo Tsai



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	30.19	-0.12	30.07	54.00	-23.93
2390.00	Peak	40.73	-0.12	40.61	74.00	-33.39

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Report Number :ER/2021/10053

Operation Mode :BR Hopping

Test Frequency :2402 MHz

Test Mode :Bandedge CH Low

EUT Pol :E2 Plane

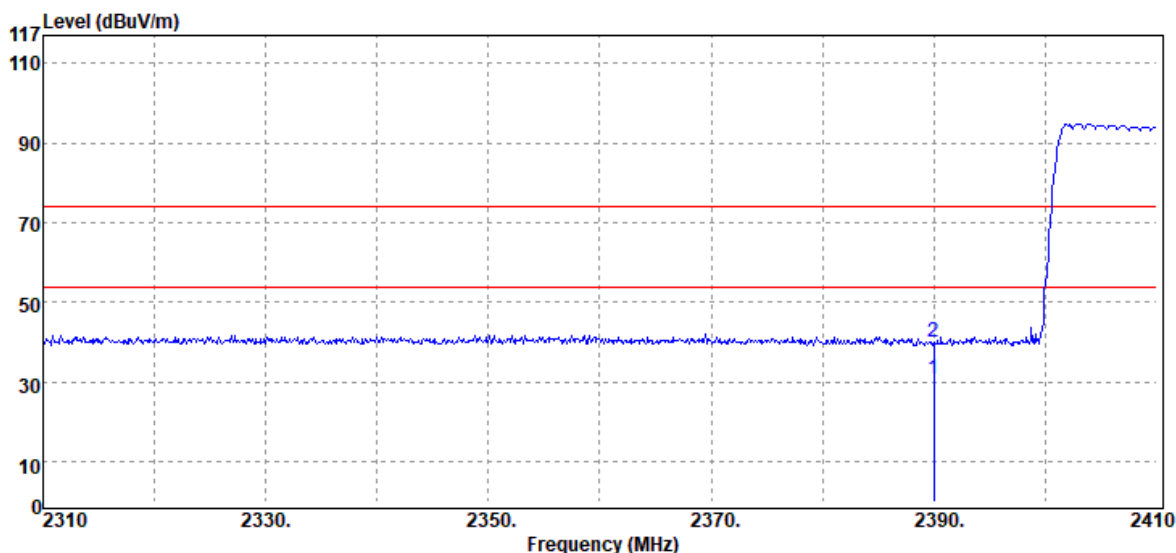
Test Site :SAC I Chamber

Test Date :2021-02-23

Temp./Humi. :22.6/54

Antenna Pol. :HORIZONTAL

Engineer :Neo Tsai



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	30.69	-0.12	30.57	54.00	-23.43
2390.00	Peak	40.36	-0.12	40.24	74.00	-33.76

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Report Number :ER/2021/10053

Operation Mode :BR Hopping

Test Frequency :2480 MHz

Test Mode :Bandedge CH High

EUT Pol :E2 Plane

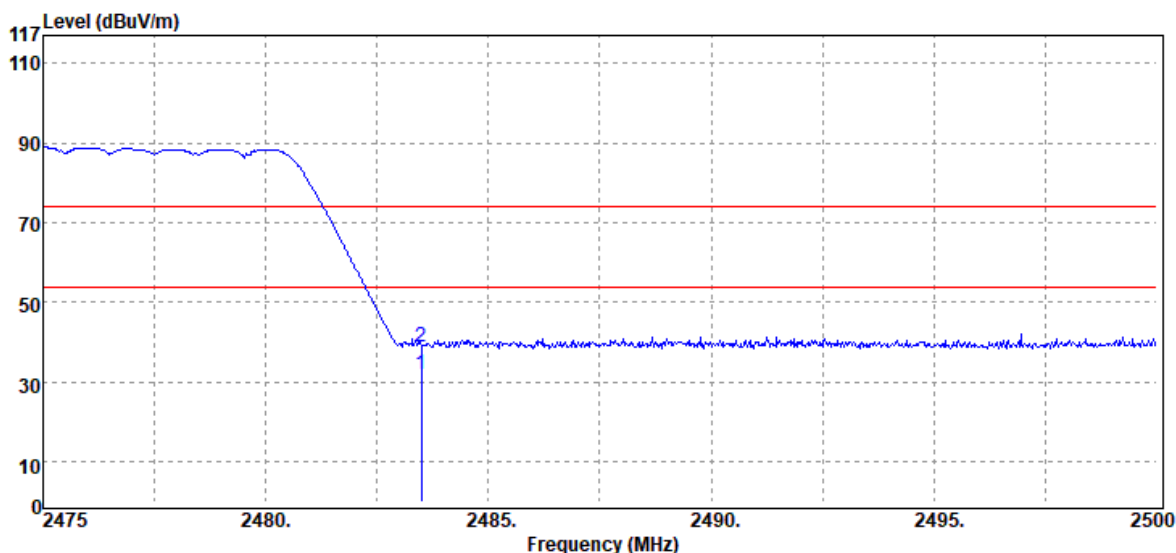
Test Site :SAC I Chamber

Test Date :2021-02-23

Temp./Humi. :22.6/54

Antenna Pol. :VERTICAL

Engineer :Neo Tsai



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	32.02	-0.16	31.86	54.00	-22.14
2483.50	Peak	39.06	-0.16	38.90	74.00	-35.10

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Report Number :ER/2021/10053

Operation Mode :BR Hopping

Test Frequency :2480 MHz

Test Mode :Bandedge CH High

EUT Pol :E2 Plane

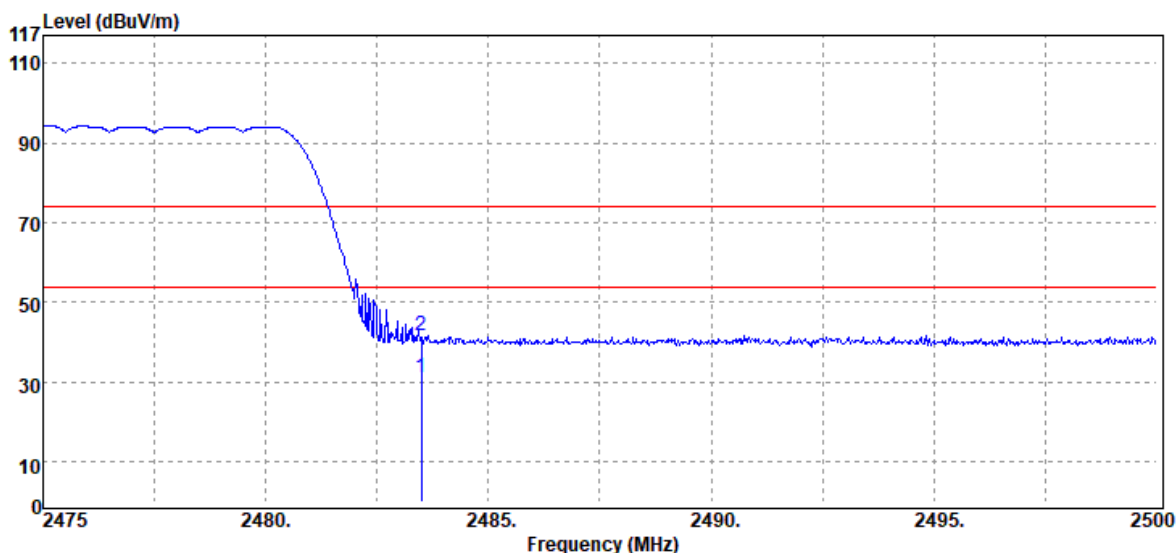
Test Site :SAC I Chamber

Test Date :2021-02-23

Temp./Humi. :22.6/54

Antenna Pol. :HORIZONTAL

Engineer :Neo Tsai



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	31.17	-0.16	31.01	54.00	-22.99
2483.50	Peak	42.02	-0.16	41.86	74.00	-32.14

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Report Number :ER/2021/10053

Operation Mode :EDR Hopping

Test Frequency :2402 MHz

Test Mode :Bandedge CH Low

EUT Pol :E2 Plane

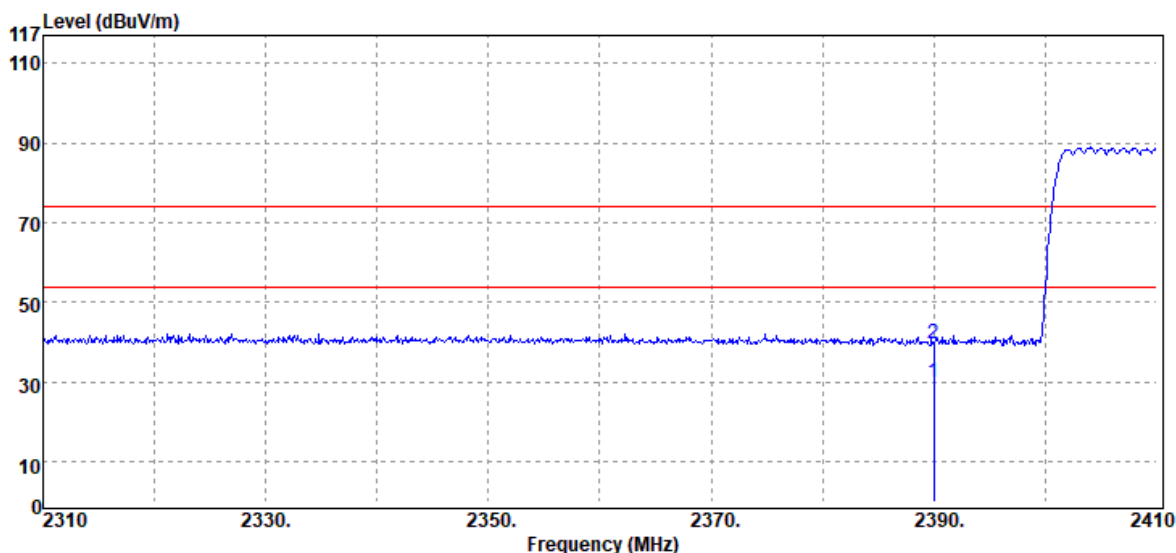
Test Site :SAC I Chamber

Test Date :2021-02-23

Temp./Humi. :22.6/54

Antenna Pol. :VERTICAL

Engineer :Neo Tsai



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	30.16	-0.12	30.04	54.00	-23.96
2390.00	Peak	39.78	-0.12	39.66	74.00	-34.34

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Report Number :ER/2021/10053

Operation Mode :EDR Hopping

Test Frequency :2402 MHz

Test Mode :Bandedge CH Low

EUT Pol :E2 Plane

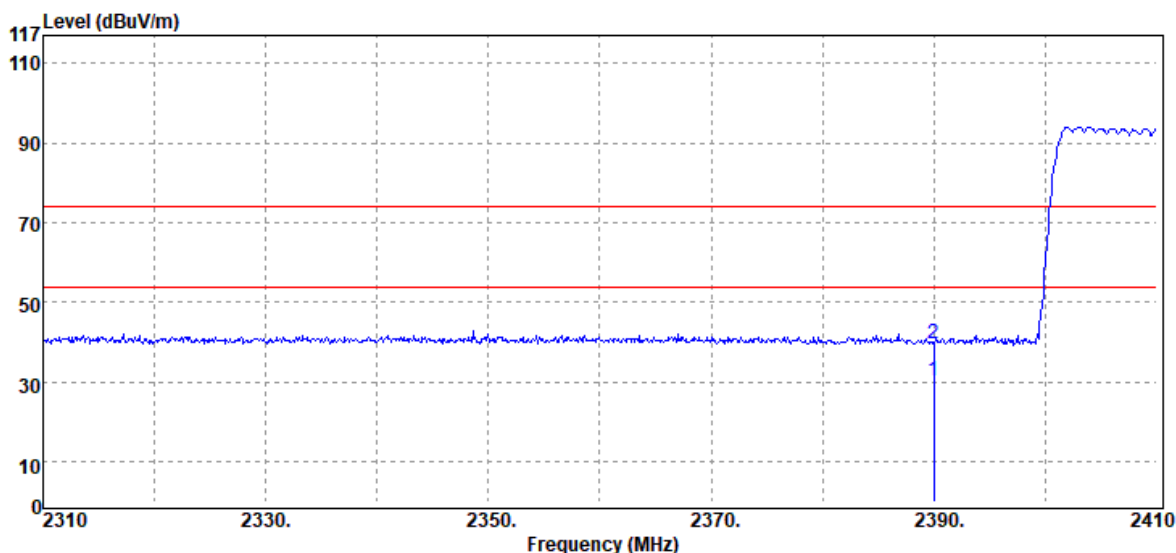
Test Site :SAC I Chamber

Test Date :2021-02-23

Temp./Humi. :22.6/54

Antenna Pol. :HORIZONTAL

Engineer :Neo Tsai



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	30.38	-0.12	30.26	54.00	-23.74
2390.00	Peak	39.87	-0.12	39.75	74.00	-34.25

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Report Number :ER/2021/10053

Operation Mode :EDR Hopping

Test Frequency :2480 MHz

Test Mode :Bandedge CH High

EUT Pol :E2 Plane

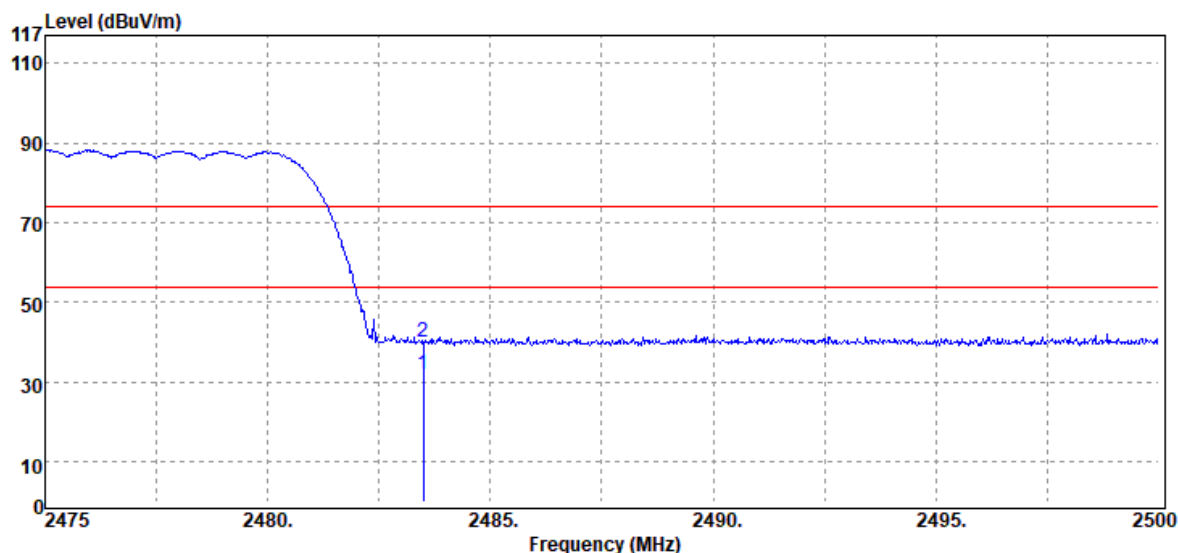
Test Site :SAC I Chamber

Test Date :2021-02-23

Temp./Humi. :22.6/54

Antenna Pol. :VERTICAL

Engineer :Neo Tsai



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	32.03	-0.16	31.87	54.00	-22.13
2483.50	Peak	40.05	-0.16	39.89	74.00	-34.11

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Report Number :ER/2021/10053

Operation Mode :EDR Hopping

Test Frequency :2480 MHz

Test Mode :Bandedge CH High

EUT Pol :E2 Plane

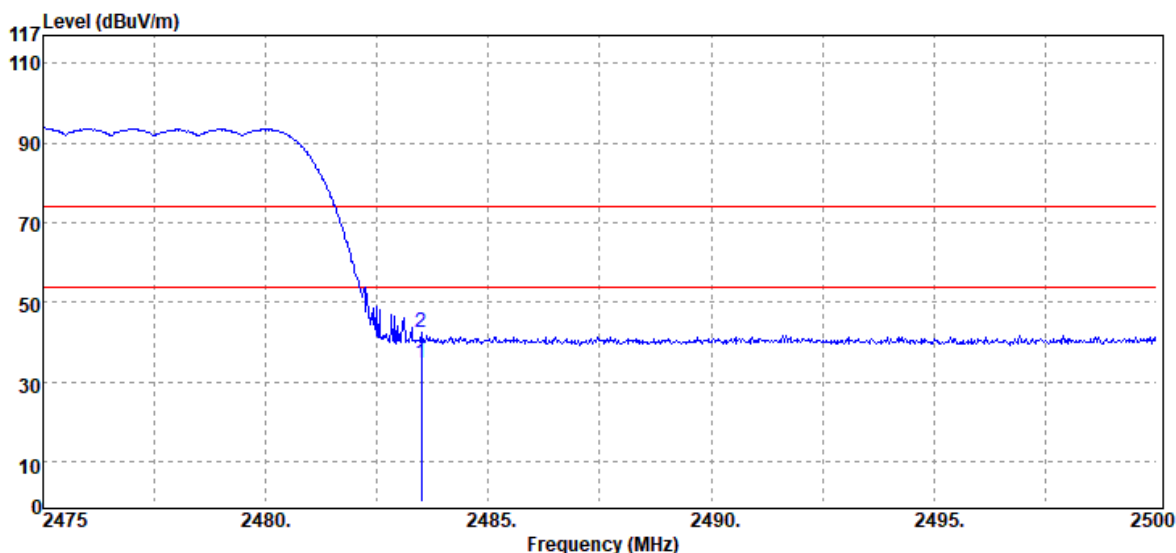
Test Site :SAC I Chamber

Test Date :2021-02-23

Temp./Humi. :22.6/54

Antenna Pol. :HORIZONTAL

Engineer :Neo Tsai



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	34.97	-0.16	34.81	54.00	-19.19
2483.50	Peak	42.71	-0.16	42.55	74.00	-31.45

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10.7.2 Radiated Bandedge Result (Non-Hopping Mode)

Report Number :ER/2021/10053

Test Site :SAC I Chamber

Operation Mode :BR(1M)

Test Date :2021-02-23

Test Frequency :2402 MHz

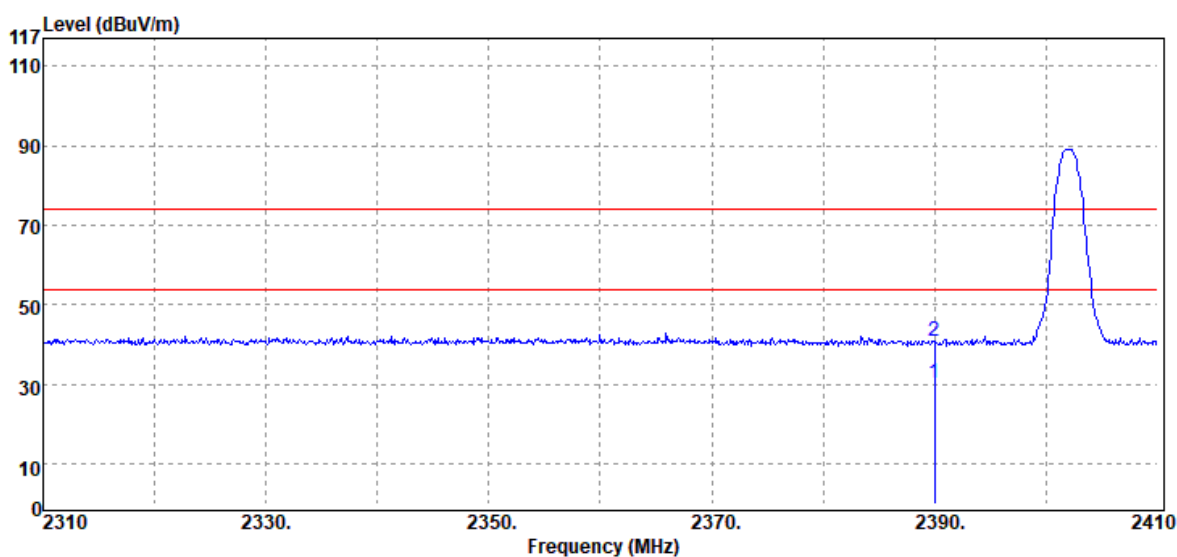
Temp./Humi. :22.6/54

Test Mode :Bandedge CH Low

Antenna Pol. :VERTICAL

EUT Pol :E2 Plane

Engineer :Neo Tsai



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	30.39	-0.12	30.27	54.00	-23.73
2390.00	Peak	41.12	-0.12	41.00	74.00	-33.00

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Report Number :ER/2021/10053

Operation Mode :BR(1M)

Test Frequency :2402 MHz

Test Mode :Bandedge CH Low

EUT Pol :E2 Plane

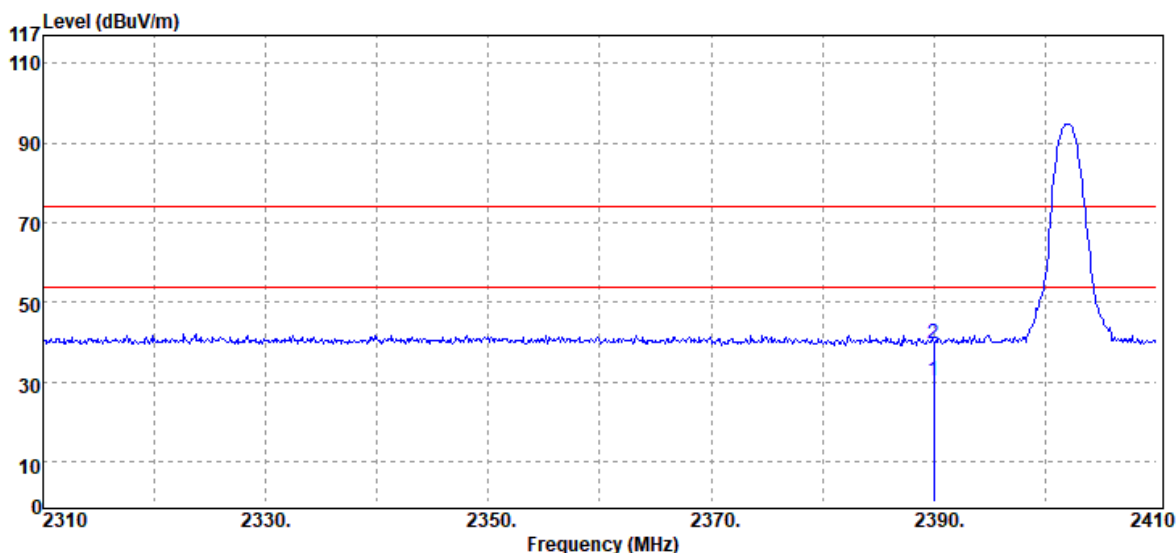
Test Site :SAC I Chamber

Test Date :2021-02-23

Temp./Humi. :22.6/54

Antenna Pol. :HORIZONTAL

Engineer :Neo Tsai



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	30.67	-0.12	30.55	54.00	-23.45
2390.00	Peak	39.93	-0.12	39.81	74.00	-34.19

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Report Number :ER/2021/10053

Operation Mode :BR(1M)

Test Frequency :2480 MHz

Test Mode :Bandedge CH High

EUT Pol :E2 Plane

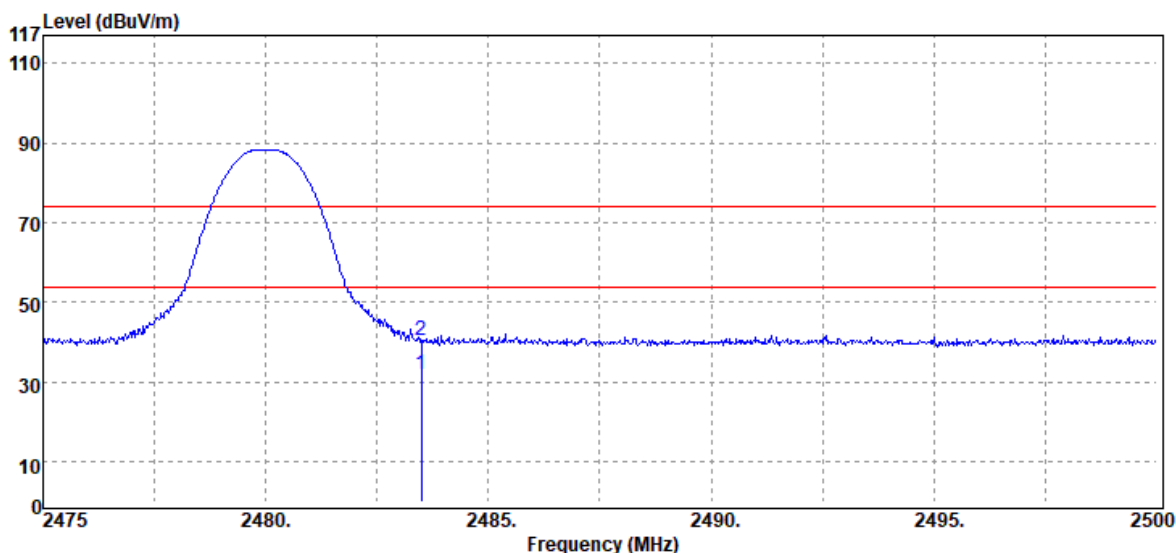
Test Site :SAC I Chamber

Test Date :2021-02-23

Temp./Humi. :22.6/54

Antenna Pol. :VERTICAL

Engineer :Neo Tsai



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	32.23	-0.16	32.07	54.00	-21.93
2483.50	Peak	40.58	-0.16	40.42	74.00	-33.58

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Report Number :ER/2021/10053

Operation Mode :BR(1M)

Test Frequency :2480 MHz

Test Mode :Bandedge CH High

EUT Pol :E2 Plane

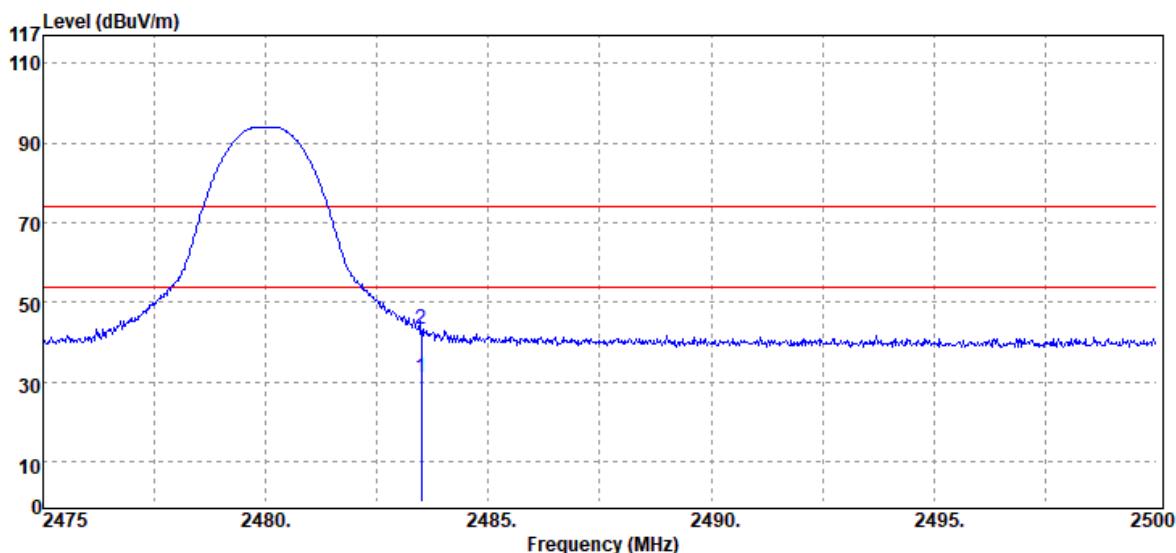
Test Site :SAC I Chamber

Test Date :2021-02-23

Temp./Humi. :22.6/54

Antenna Pol. :HORIZONTAL

Engineer :Neo Tsai



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	31.46	-0.16	31.30	54.00	-22.70
2483.50	Peak	43.61	-0.16	43.45	74.00	-30.55

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Report Number :ER/2021/10053

Operation Mode :EDR(3M)

Test Frequency :2402 MHz

Test Mode :Bandedge CH Low

EUT Pol :E2 Plane

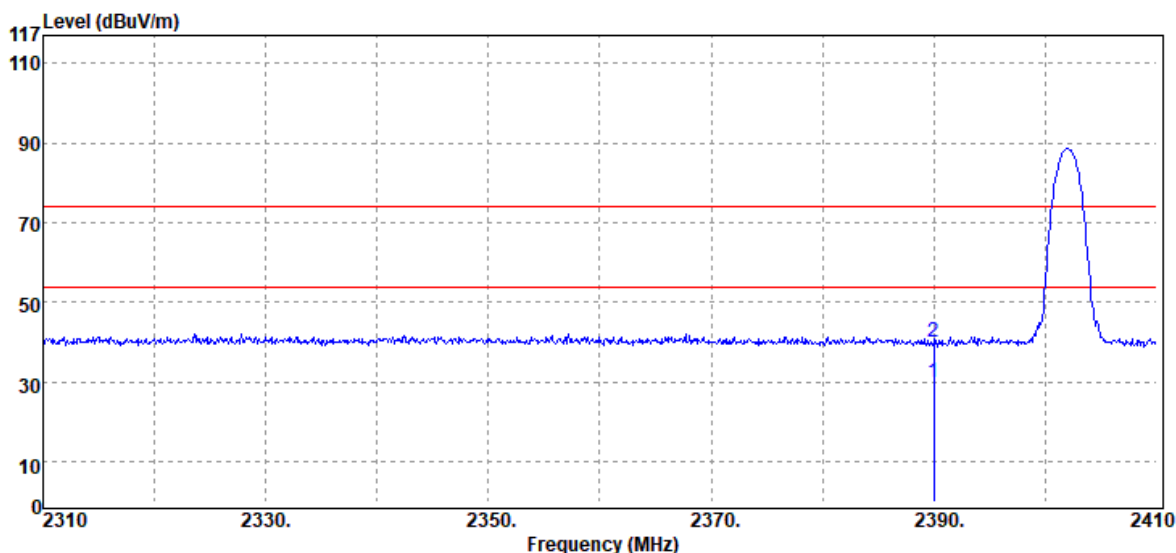
Test Site :SAC I Chamber

Test Date :2021-02-23

Temp./Humi. :22.6/54

Antenna Pol. :VERTICAL

Engineer :Neo Tsai



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	30.07	-0.12	29.95	54.00	-24.05
2390.00	Peak	40.35	-0.12	40.23	74.00	-33.77

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Report Number :ER/2021/10053

Operation Mode :EDR(3M)

Test Frequency :2402 MHz

Test Mode :Bandedge CH Low

EUT Pol :E2 Plane

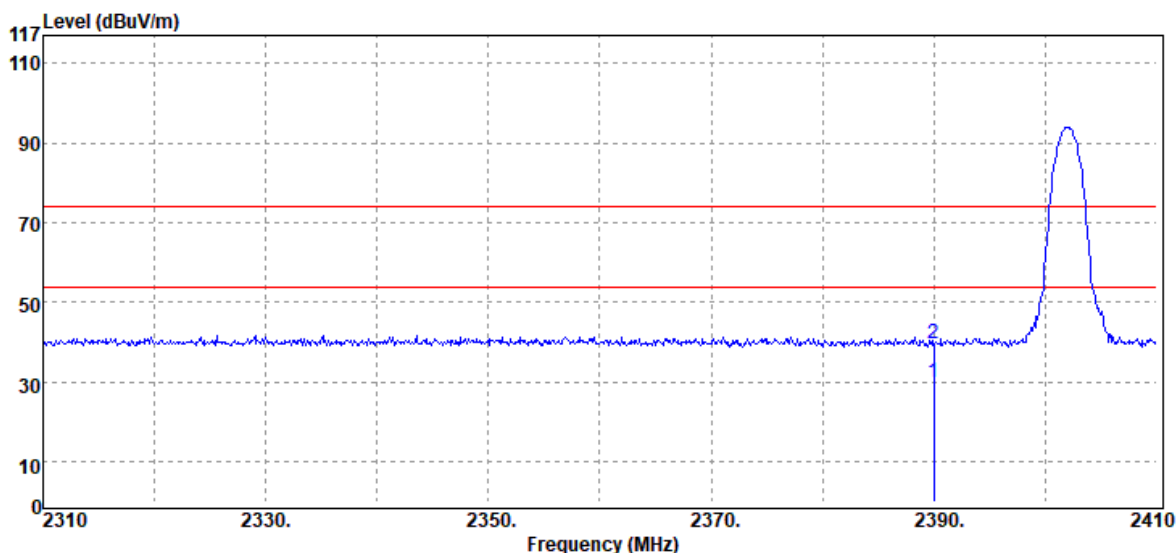
Test Site :SAC I Chamber

Test Date :2021-02-23

Temp./Humi. :22.6/54

Antenna Pol. :HORIZONTAL

Engineer :Neo Tsai



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	30.15	-0.12	30.03	54.00	-23.97
2390.00	Peak	39.87	-0.12	39.75	74.00	-34.25

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Report Number :ER/2021/10053

Operation Mode :EDR(3M)

Test Frequency :2480 MHz

Test Mode :Bandedge CH High

EUT Pol :E2 Plane

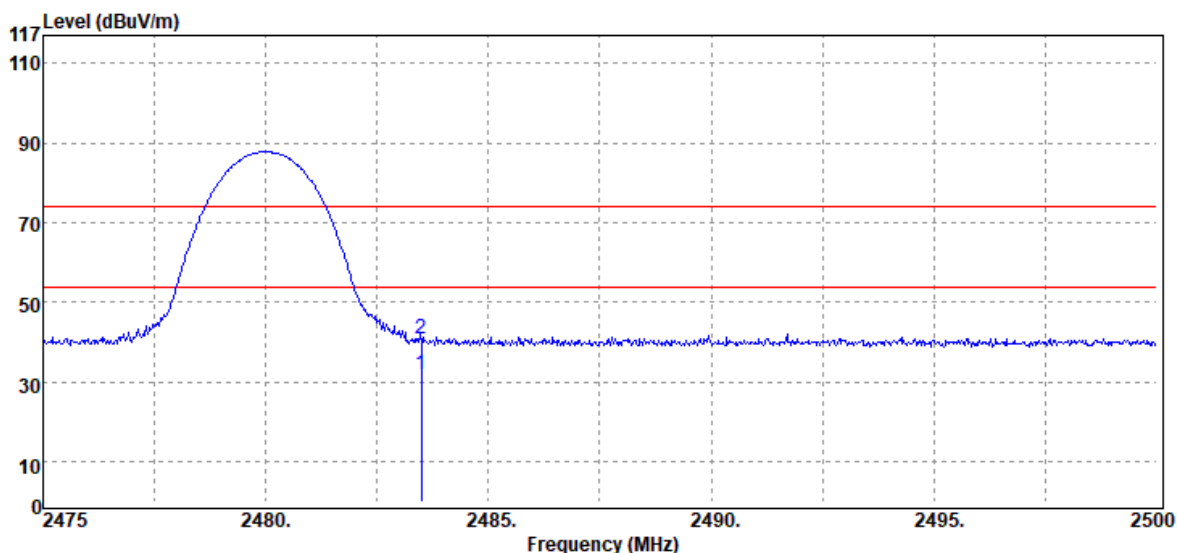
Test Site :SAC I Chamber

Test Date :2021-02-23

Temp./Humi. :22.6/54

Antenna Pol. :VERTICAL

Engineer :Neo Tsai



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	32.24	-0.16	32.08	54.00	-21.92
2483.50	Peak	40.90	-0.16	40.74	74.00	-33.26

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Report Number :ER/2021/10053

Operation Mode :EDR(3M)

Test Frequency :2480 MHz

Test Mode :Bandedge CH High

EUT Pol :E2 Plane

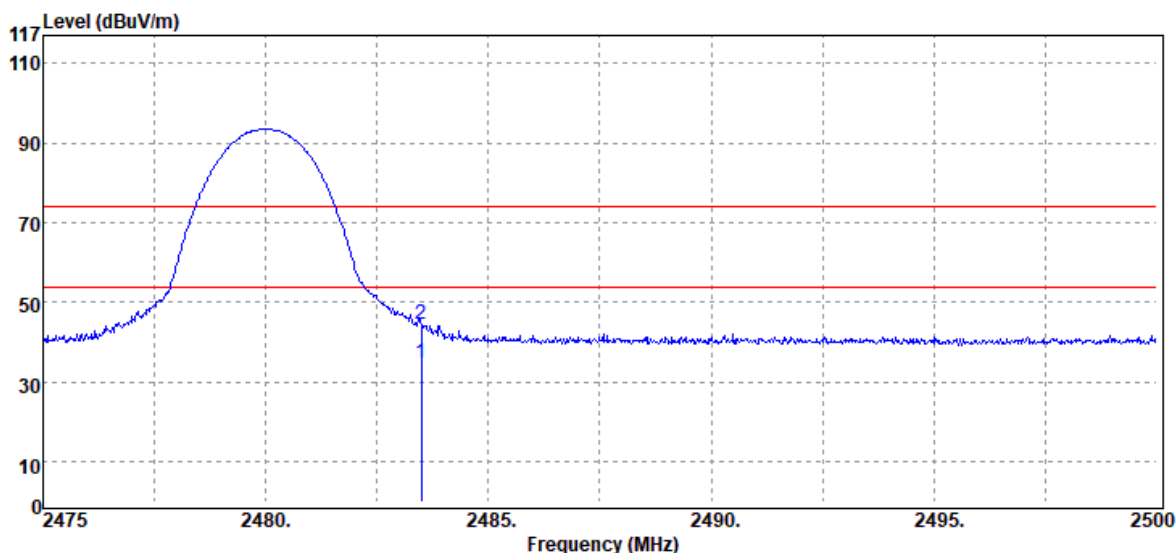
Test Site :SAC I Chamber

Test Date :2021-02-23

Temp./Humi. :22.6/54

Antenna Pol. :HORIZONTAL

Engineer :Neo Tsai



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	35.04	-0.16	34.88	54.00	-19.12
2483.50	Peak	44.53	-0.16	44.37	74.00	-29.63

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10.7.3 Radiated Spurious Emission form 30MHz to 1000MHz:

Report Number :ER/2021/10053

Test Site :SAC I Chamber

Operation Mode :BR(1M)

Test Date :2021-02-23

Test Frequency :2441 MHz

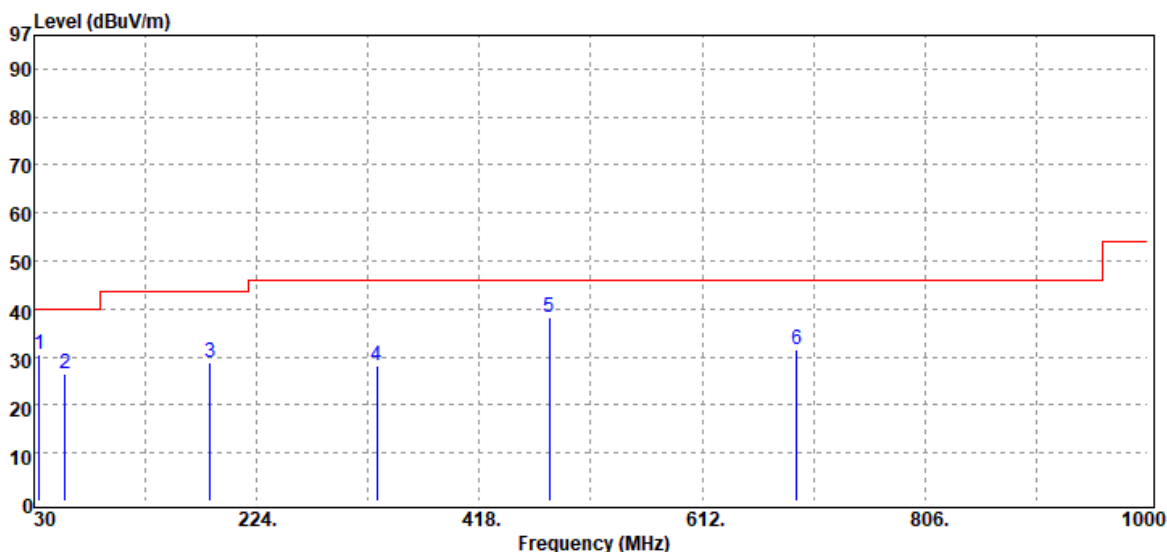
Temp./Humi. :22.6/54

Test Mode :Tx CH Mid

Antenna Pol. :VERTICAL

EUT Pol :E2 Plane

Engineer :Neo Tsai



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
34.85	Peak	37.57	-7.02	30.55	40.00	-9.45
57.16	Peak	44.27	-17.79	26.48	40.00	-13.52
183.26	Peak	43.15	-14.15	29.00	43.50	-14.50
328.76	Peak	36.55	-8.42	28.13	46.00	-17.87
479.11	Peak	43.90	-5.77	38.13	46.00	-7.87
694.45	Peak	34.09	-2.68	31.41	46.00	-14.59

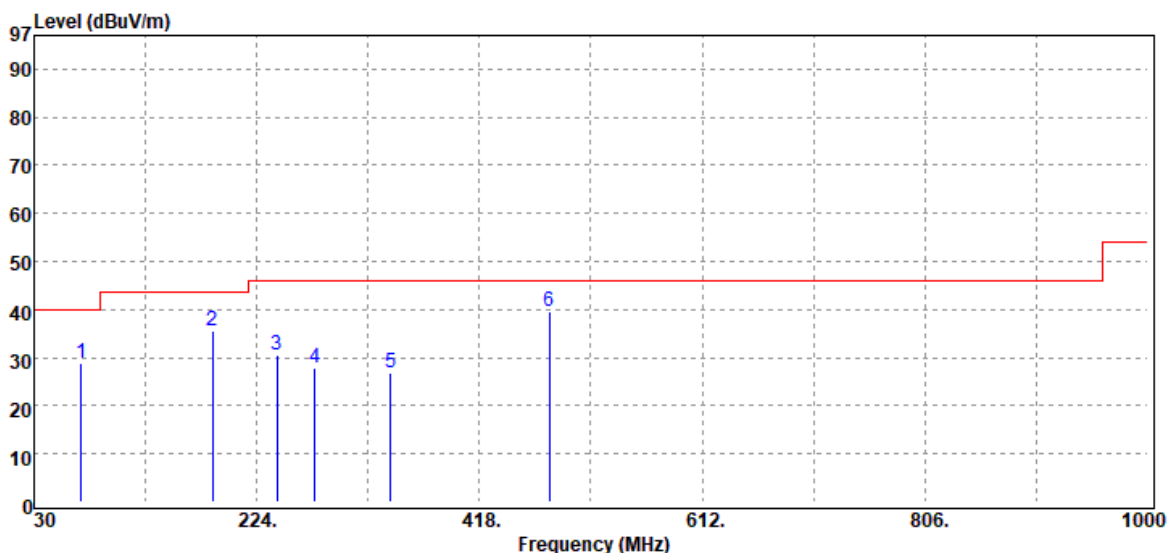
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Report Number :ER/2021/10053
 Operation Mode :BR(1M)
 Test Frequency :2441 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC I Chamber
 Test Date :2021-02-23
 Temp./Humi. :22.6/54
 Antenna Pol. :HORIZONTAL
 Engineer :Neo Tsai



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
70.74	Peak	46.58	-17.63	28.95	40.00	-11.05
185.20	Peak	49.69	-14.11	35.58	43.50	-7.92
241.46	Peak	41.42	-10.83	30.59	46.00	-15.41
274.44	Peak	37.27	-9.58	27.69	46.00	-18.31
340.40	Peak	34.62	-7.90	26.72	46.00	-19.28
479.11	Peak	45.21	-5.77	39.44	46.00	-6.56

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10.7.4 Radiated Spurious Emission above 1 GHz:

Report Number :ER/2021/10053

Test Site :SAC I Chamber

Operation Mode :BR(1M)

Test Date :2021-02-23

Test Frequency :2402 MHz

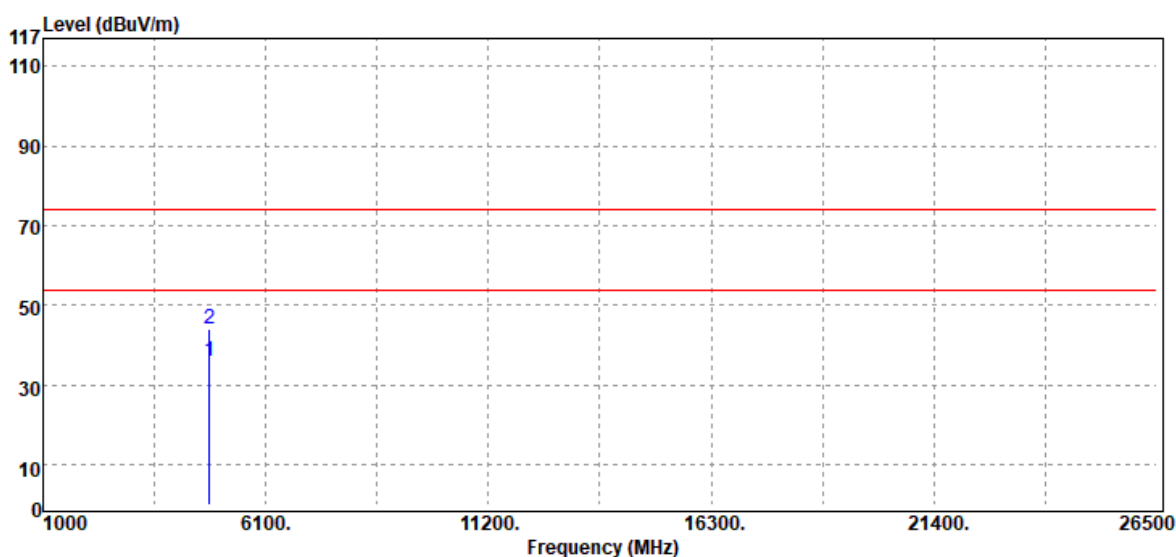
Temp./Humi. :22.6/54

Test Mode :Tx CH Low

Antenna Pol. :VERTICAL

EUT Pol :E2 Plane

Engineer :Neo Tsai



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	28.46	7.75	36.21	54.00	-17.79
4804.00	Peak	36.33	7.75	44.08	74.00	-29.92

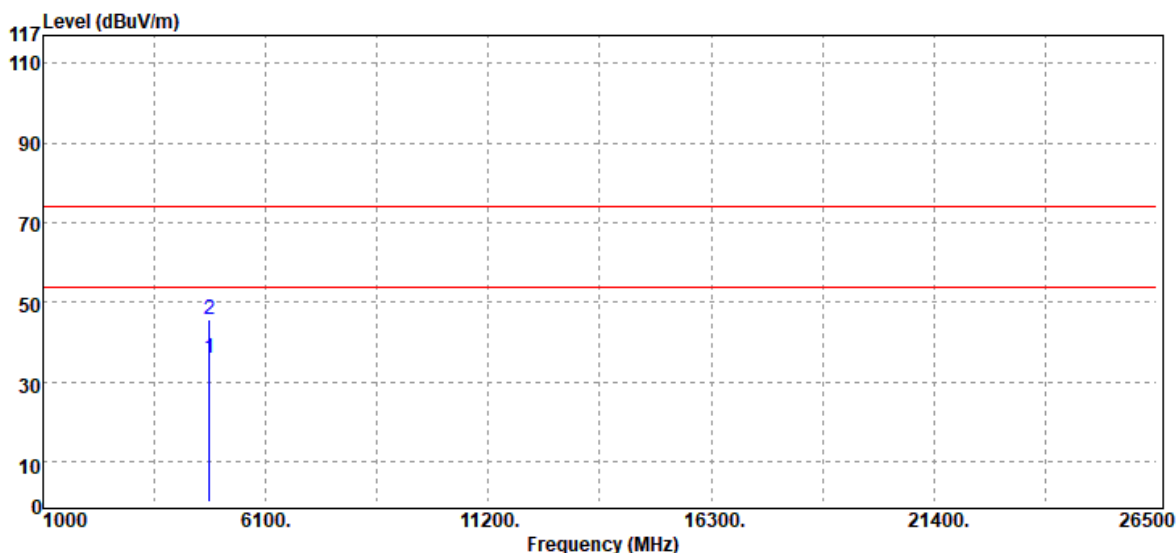
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Report Number :ER/2021/10053
 Operation Mode :BR(1M)
 Test Frequency :2402 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC I Chamber
 Test Date :2021-02-23
 Temp./Humi. :22.6/54
 Antenna Pol. :HORIZONTAL
 Engineer :Neo Tsai



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	28.36	7.75	36.11	54.00	-17.89
4804.00	Peak	37.88	7.75	45.63	74.00	-28.37

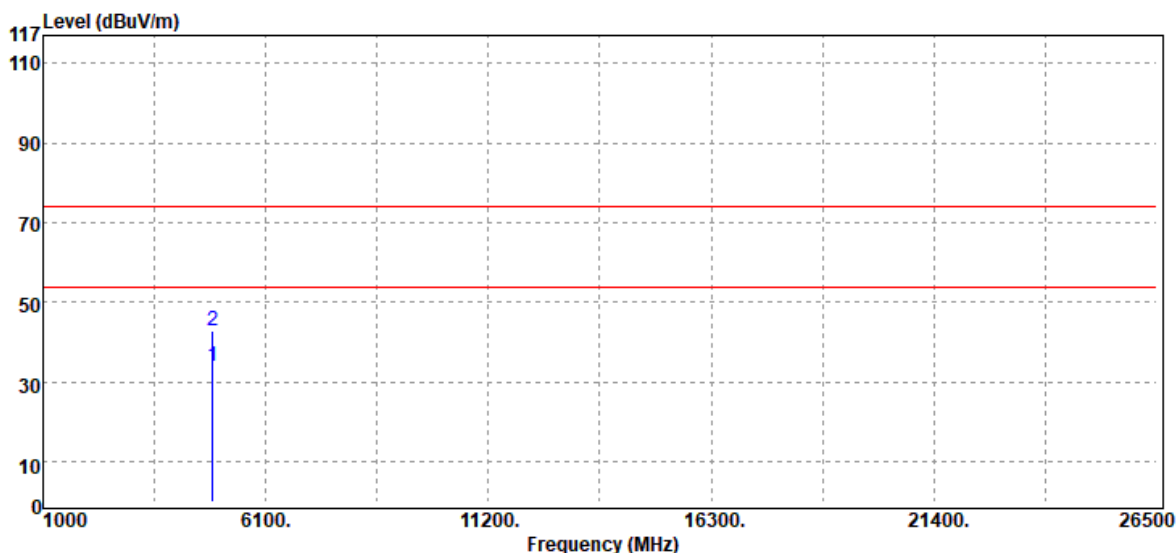
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Report Number :ER/2021/10053
 Operation Mode :BR(1M)
 Test Frequency :2441 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC I Chamber
 Test Date :2021-02-23
 Temp./Humi. :22.6/54
 Antenna Pol. :VERTICAL
 Engineer :Neo Tsai



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	27.41	6.76	34.17	54.00	-19.83
4882.00	Peak	36.33	6.76	43.09	74.00	-30.91

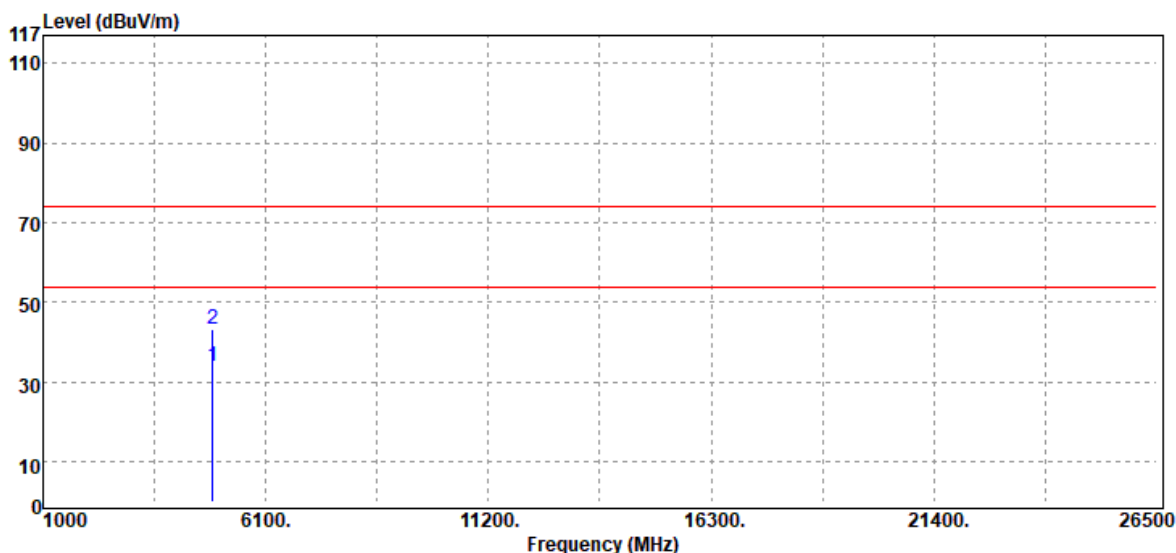
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Report Number :ER/2021/10053
 Operation Mode :BR(1M)
 Test Frequency :2441 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC I Chamber
 Test Date :2021-02-23
 Temp./Humi. :22.6/54
 Antenna Pol. :HORIZONTAL
 Engineer :Neo Tsai



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4882.00	Average	27.36	6.76	34.12	54.00	-19.88
4882.00	Peak	36.70	6.76	43.46	74.00	-30.54

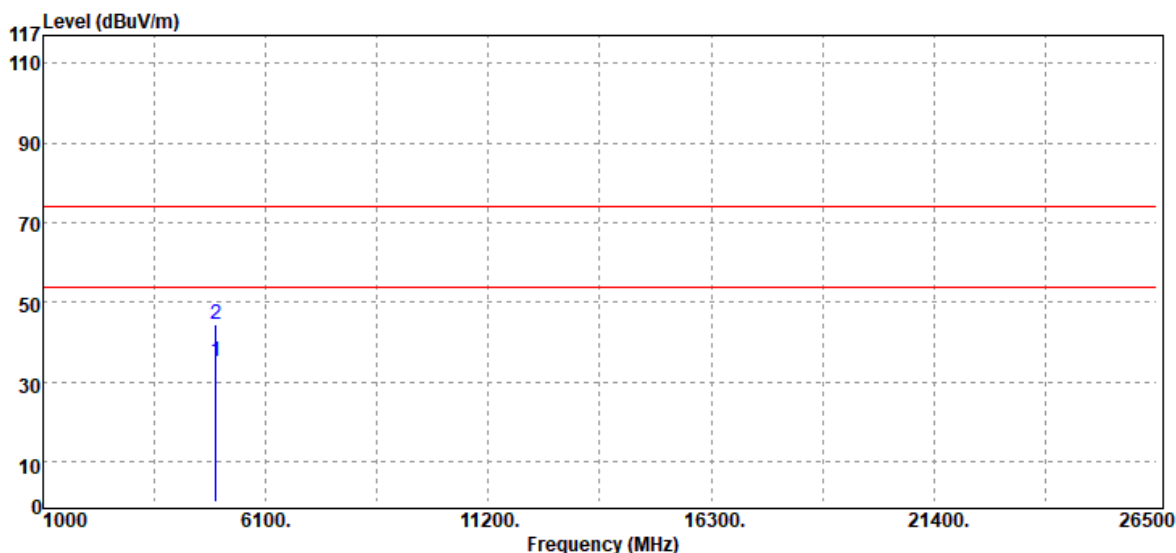
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Report Number :ER/2021/10053
 Operation Mode :BR(1M)
 Test Frequency :2480 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC I Chamber
 Test Date :2021-02-23
 Temp./Humi. :22.6/54
 Antenna Pol. :VERTICAL
 Engineer :Neo Tsai



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
4960.00	Average	27.20	7.96	35.16	54.00	-18.84
4960.00	Peak	36.51	7.96	44.47	74.00	-29.53

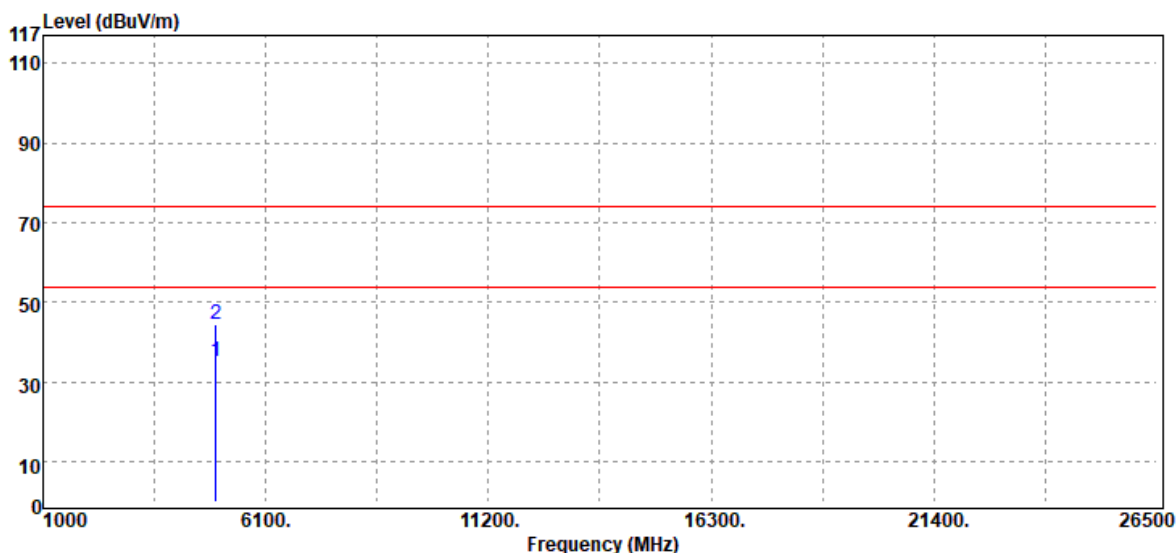
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Report Number :ER/2021/10053
 Operation Mode :BR(1M)
 Test Frequency :2480 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC I Chamber
 Test Date :2021-02-23
 Temp./Humi. :22.6/54
 Antenna Pol. :HORIZONTAL
 Engineer :Neo Tsai



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4960.00	Average	27.13	7.96	35.09	54.00	-18.91
4960.00	Peak	36.61	7.96	44.57	74.00	-29.43

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11 FREQUENCY SEPARATION

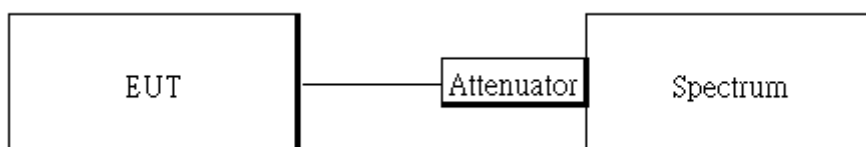
11.1 Standard Applicable

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: Conducted 2					
EQUIPMENT TYPE	MFR/BRAND	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071571	06/27/2020	06/26/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021

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

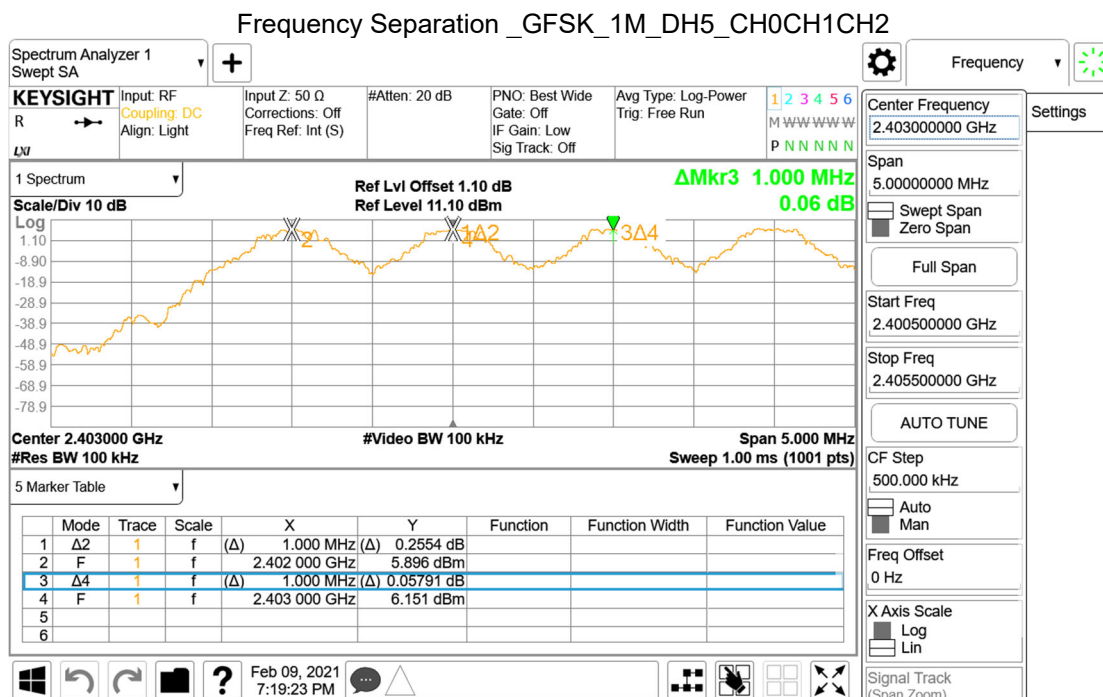
Channel separation (MHz)	Limit	Result
1	$\geq 25\text{ kHz}$ or $2/3\text{ times } 20\text{dB bandwidth}$	PASS

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11.6 Frequency Separation Test Plots



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12 NUMBER OF HOPPING FREQUENCY

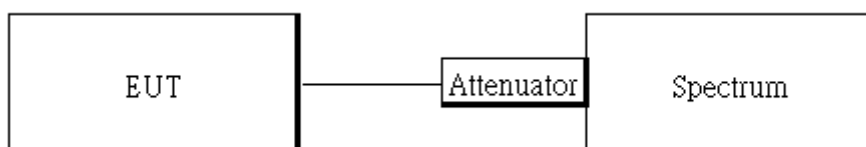
12.1 Standard Applicable

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: Conducted 2					
EQUIPMENT TYPE	MFR/BRAND	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071571	06/27/2020	06/26/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021

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	

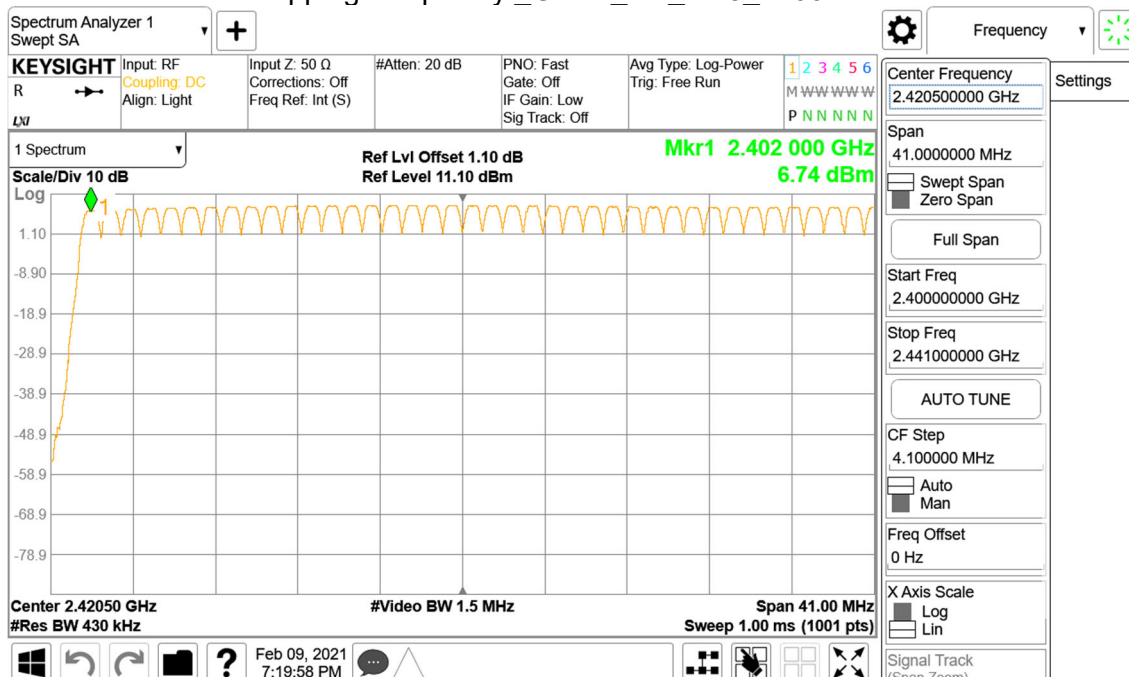
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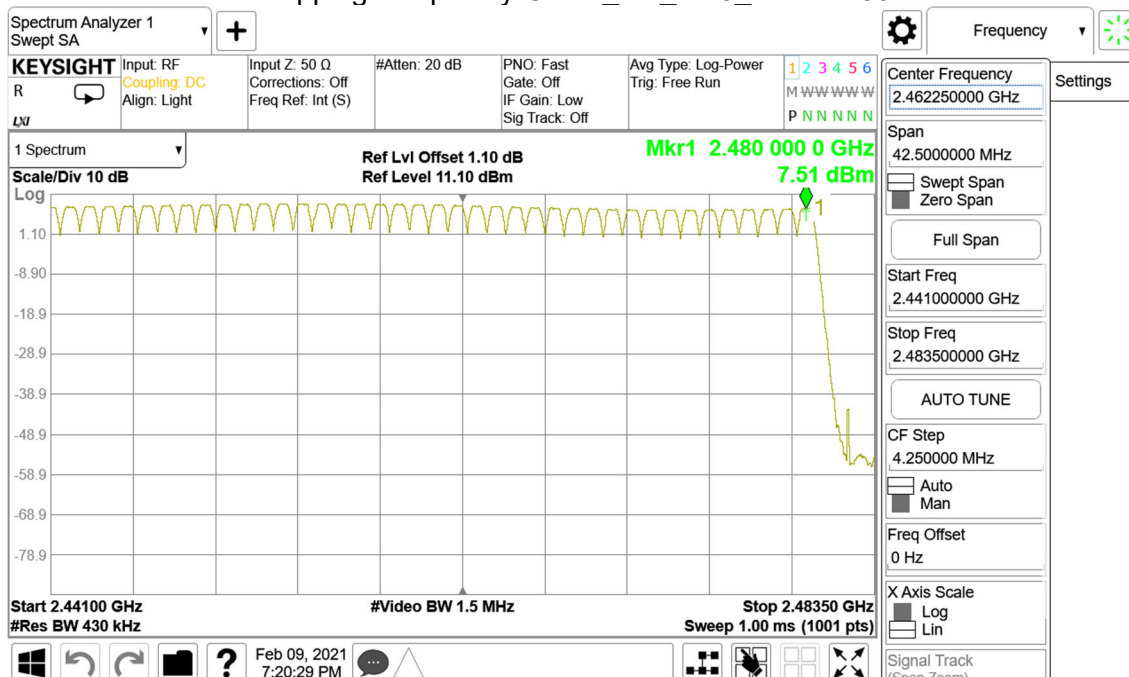
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12.6 Channel Number Test Plots

Hopping Frequency _GFSK_1M_DH5_2400-2441



Hopping Frequency GFSK_1M_DH5_2441-2480



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13 TIME OF OCCUPANCY (DWELL TIME)

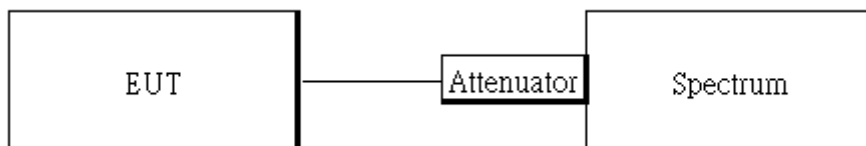
13.1 Standard Applicable

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

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR/BRAND	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071571	06/27/2020	06/26/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021

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	121.60	400ms	2.632	3.00
	DH3	260.80	400ms	0.613	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	260.80	400ms	0.613	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	123.20	400ms	2.597	3.00
	2DH3	262.40	400ms	0.610	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	123.20	400ms	2.597	3.00
	3DH3	260.80	400ms	0.613	1.00
	3DH5	307.20	400ms	0.347	1.00

NOTE: cable loss as 1.1dB that offsets in the spectrum

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GFSK (1Mbps):

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

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

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

8-DPSK (3Mbps):

CH Mid	3DH1 time slot	=	0.385	*	(1600/2/79)	*	31.6	=	123.20 (ms)
	3DH3 time slot	=	1.630	*	(1600/4/79)	*	31.6	=	260.80 (ms)
	3DH5 time slot	=	2.880	*	(1600/6/79)	*	31.6	=	307.20 (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	153.60	400ms

13.6 Measurement Result

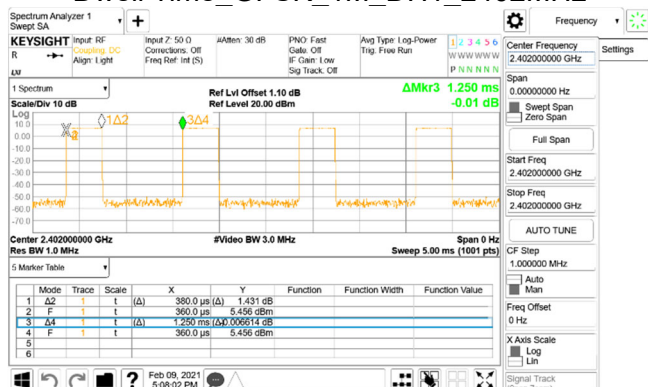
Note: Refer to next page for plots.

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Dwell Time_GFSK_1M_DH1_2402MHz



Dwell Time_GFSK_1M_DH3_2402MHz



Dwell Time_GFSK_1M_DH1_2441MHz



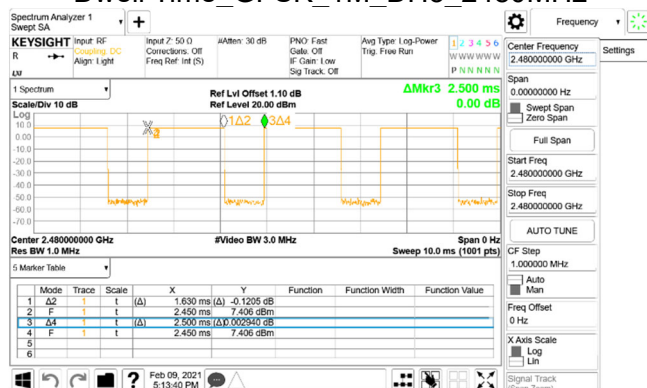
Dwell Time_GFSK_1M_DH3_2441MHz



Dwell Time_GFSK_1M_DH1_2480MHz



Dwell Time_GFSK_1M_DH3_2480MHz

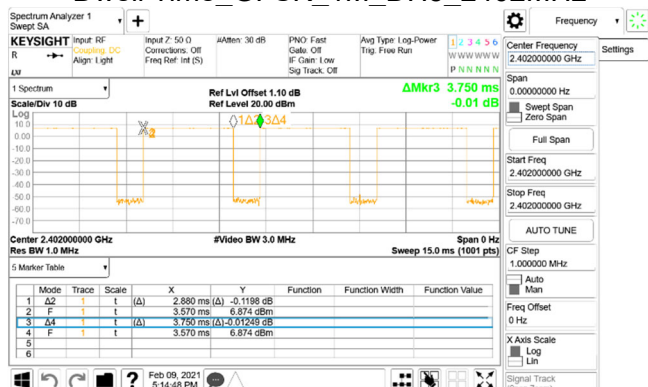


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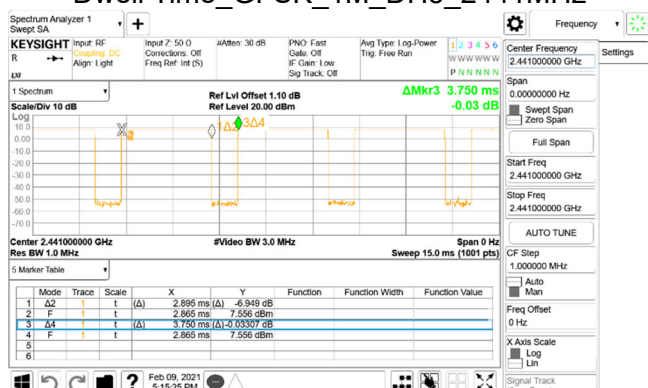
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Dwell Time_GFSK_1M_DH5_2402MHz



Dwell Time_GFSK_1M_DH5_2441MHz



Dwell Time_GFSK_1M_DH5_2480MHz



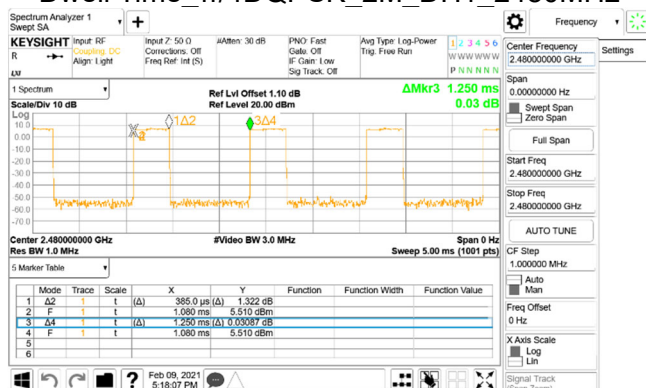
Dwell Time_π/4QPSK_2M_DH1_2402MHz



Dwell Time_π/4QPSK_2M_DH1_2441MHz



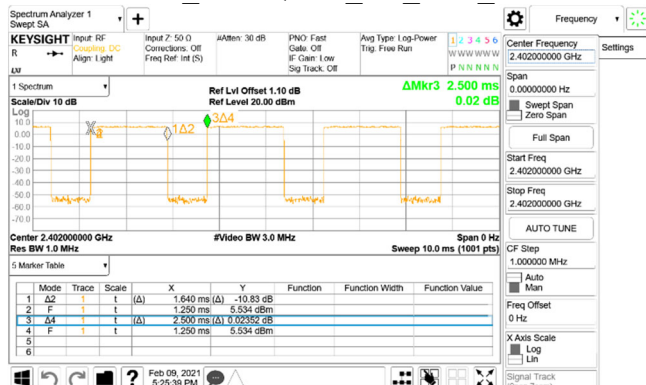
Dwell Time_π/4QPSK_2M_DH1_2480MHz

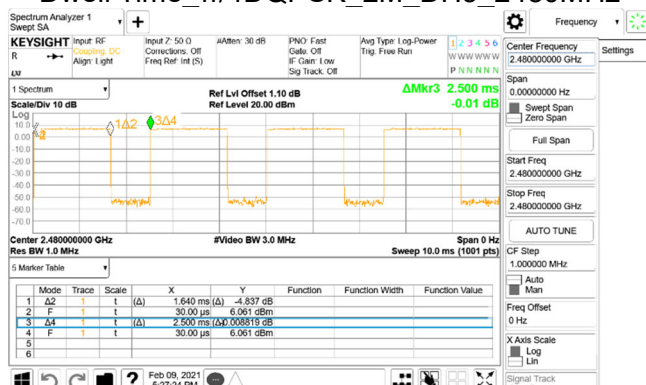
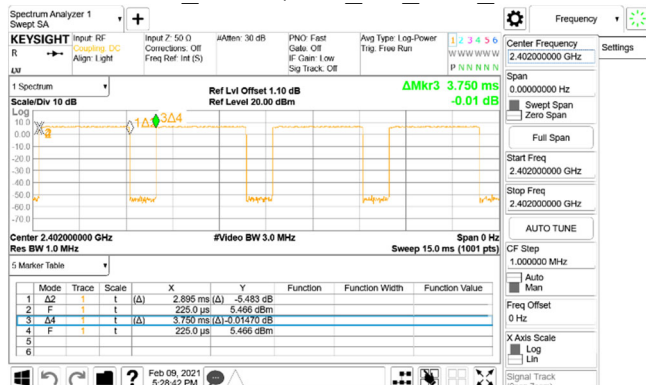
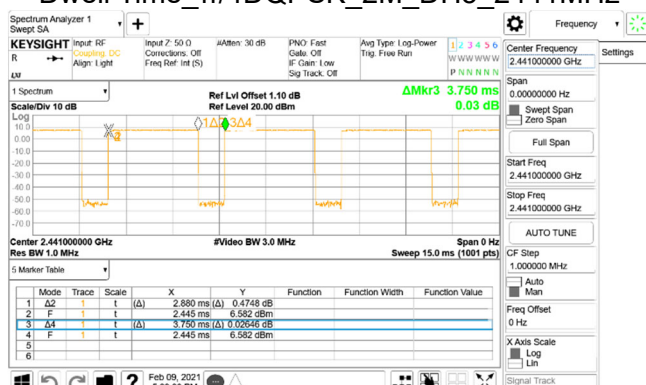
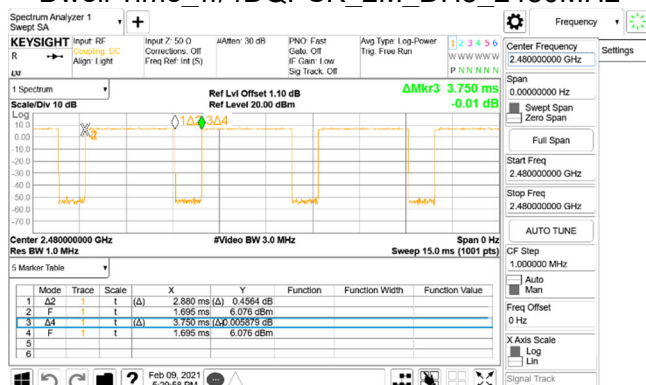


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Dwell Time $\pi/4$ DQPSK_2M_DH3_2402MHz

Dwell Time $\pi/4$ DQPSK_2M_DH3_2441MHz

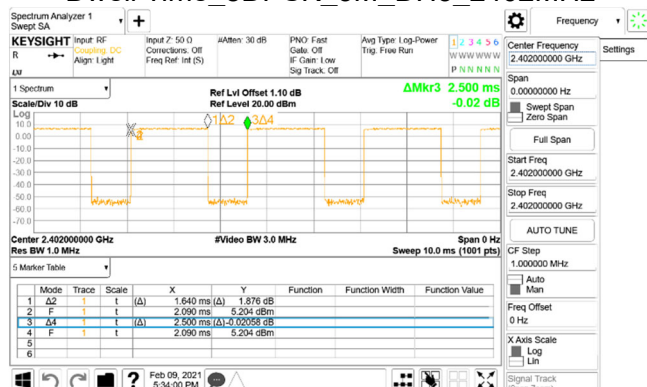
Dwell Time $\pi/4$ DQPSK_2M_DH3_2480MHz

Dwell Time $\pi/4$ DQPSK_2M_DH5_2402MHz

Dwell Time $\pi/4$ DQPSK_2M_DH5_2441MHz

Dwell Time $\pi/4$ DQPSK_2M_DH5_2480MHz


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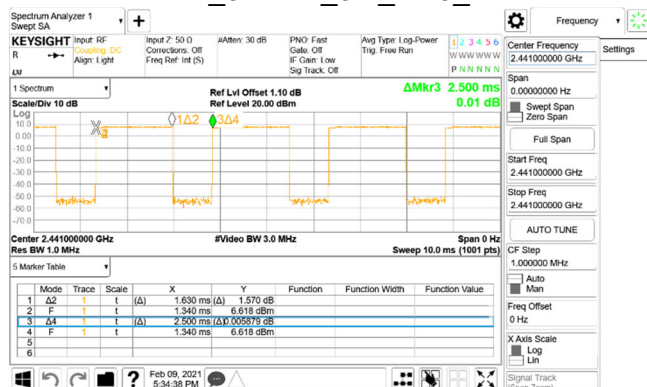
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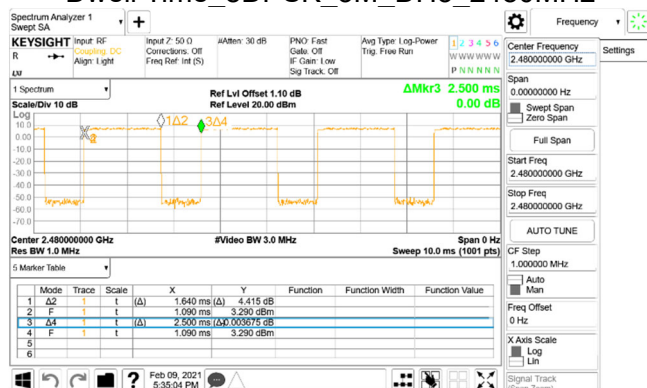
Dwell Time 8DPSK 3M DH3 2402MHz



Dwell Time 8DPSK 3M DH3 2441MHz



Dwell Time 8DPSK 3M DH3 2480MHz



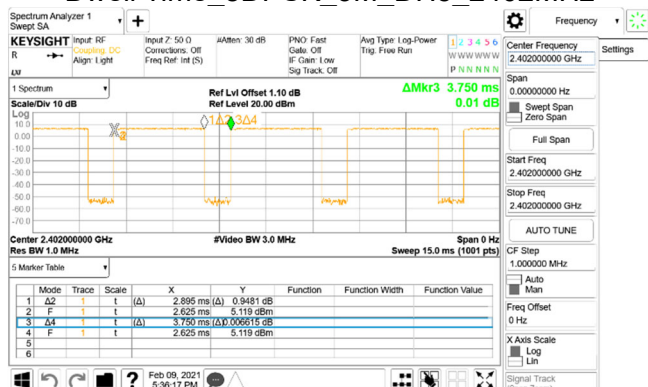
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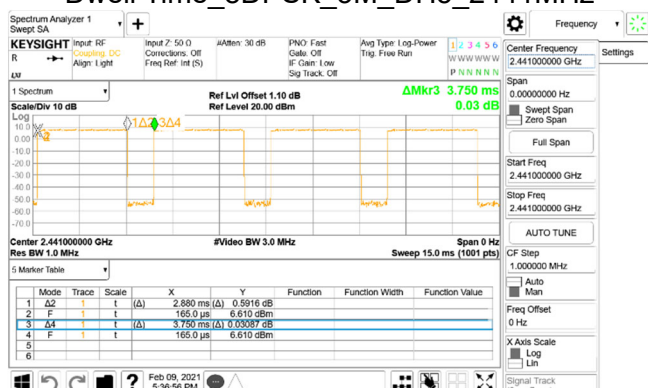
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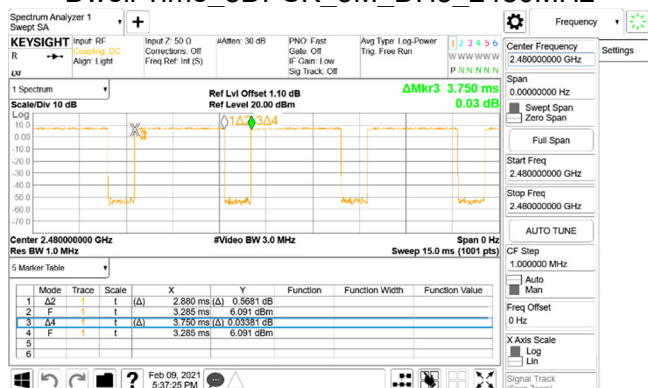
Dwell Time_8DPSK_3M_DH5_2402MHz



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

~ End of Report ~

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