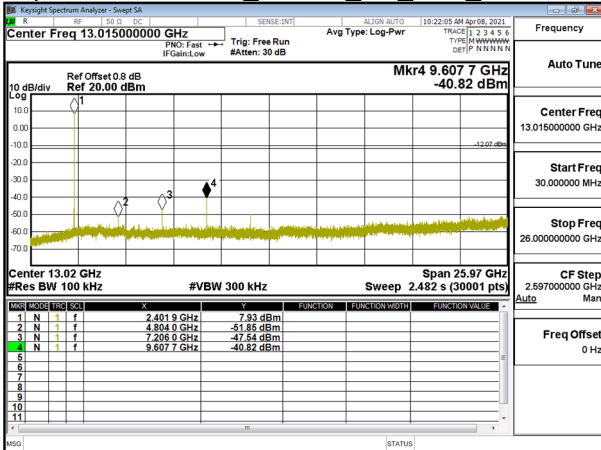
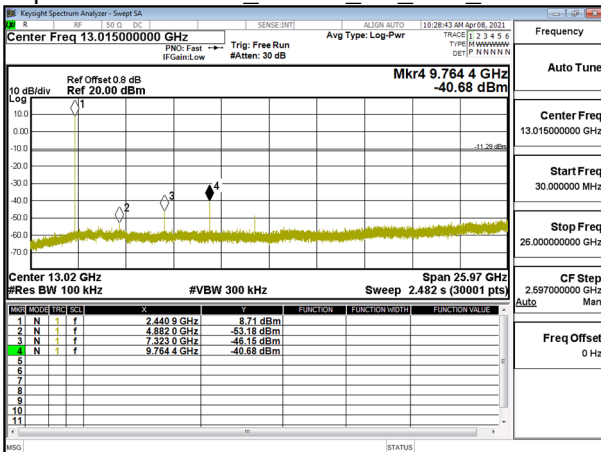


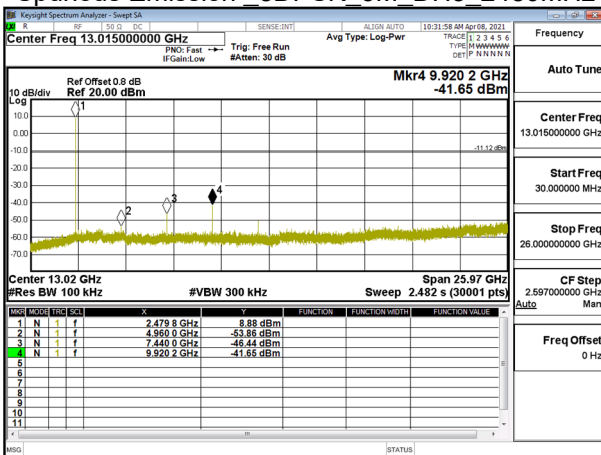
Spurious Emission_8DPSK_3M_DH5_2402MHz



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 C					
EQUIPMENT TYPE	MFR/BRAND	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	TESEQ	CBL 6112D	35240	09/08/2020	09/07/2021
Horn Antenna	Schwarzbeck	BBHA9170	184	12/11/2020	12/10/2021
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/11/2021	01/10/2022
Loop Antenna	ETS.LINDGR EN	6502	143303	04/28/2020	04/27/2021
Test Software	audix	e3	20923 sgs Ver.9	N.C.R	N.C.R
EMI Test Receiver	R&S	ESU 40	100363	04/29/2020	04/28/2021
Pre-Amplifier	EMC Instruments	EMC330	980096	11/19/2020	11/18/2021
Pre-Amplifier	EMC Instruments	EMC0011830	980199	11/19/2020	11/18/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2020	10/26/2021
Attenuator	Woken	WATT-218FS-10	RF03	11/19/2020	11/18/2021
Band Rejection Filter	Micro-Tronics	BRM50701-01	RF201	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	11/19/2020	11/18/2021

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

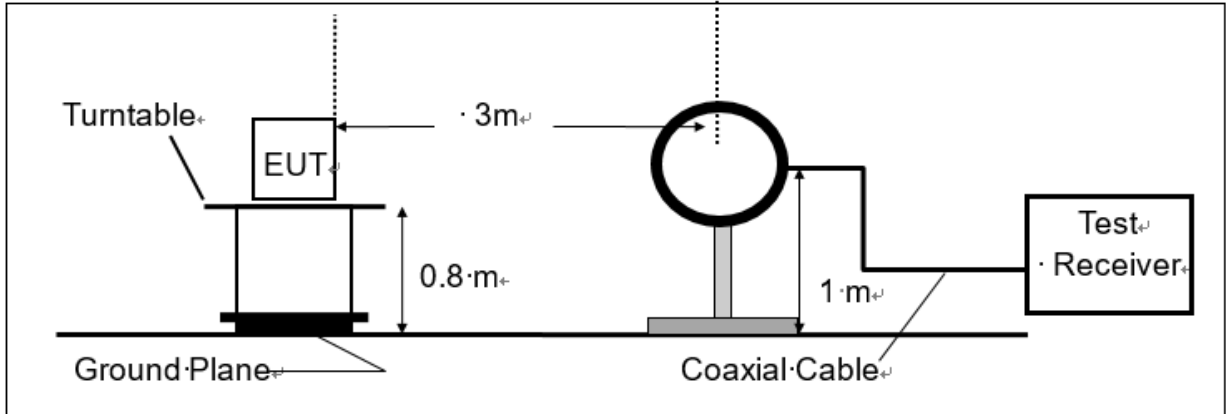
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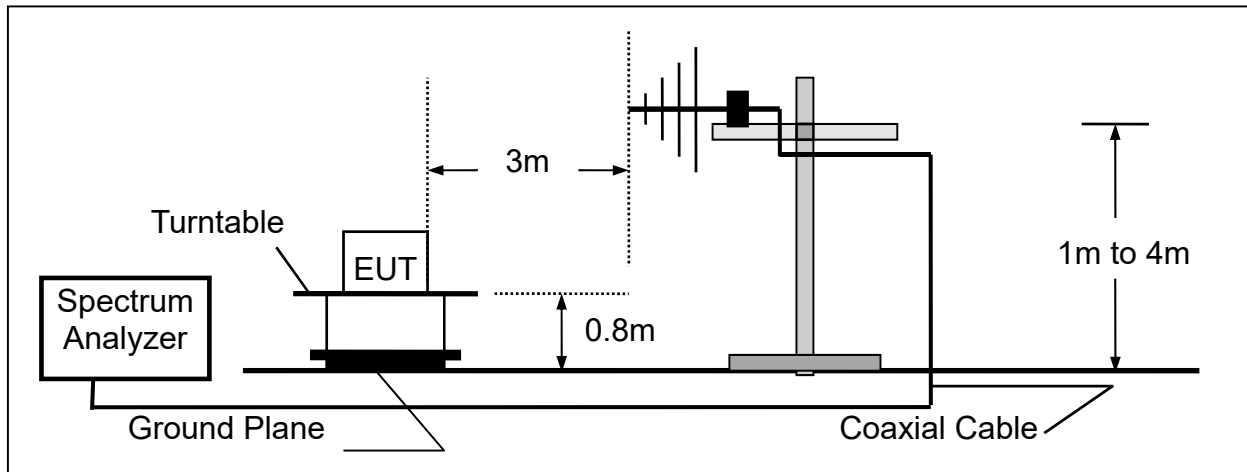
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10.3 Test SET-UP

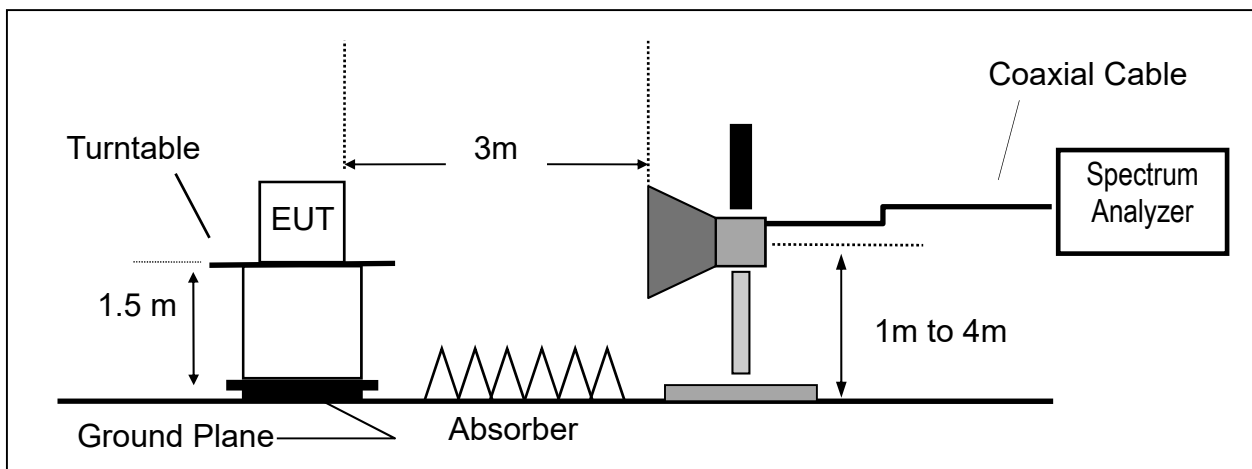
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency form 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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10.4 Measurement Procedure

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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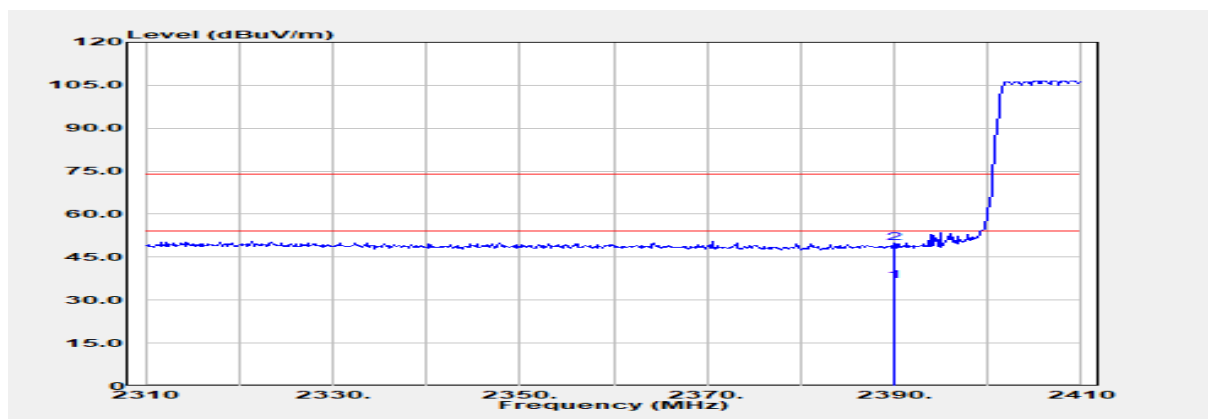
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10.7 Measurement Result:

10.7.1 Radiated Bandedge Result (Hopping Mode)

Report Number	:E2/2021/30045	Test Site	:966 Chamber C
Operation Mode	:BT BR Hopping	Test Date	:2021-04-09
Test Frequency	:2402 MHz	Temp./Humi.	:22.5/54
Test Mode	:BE CH LOW	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



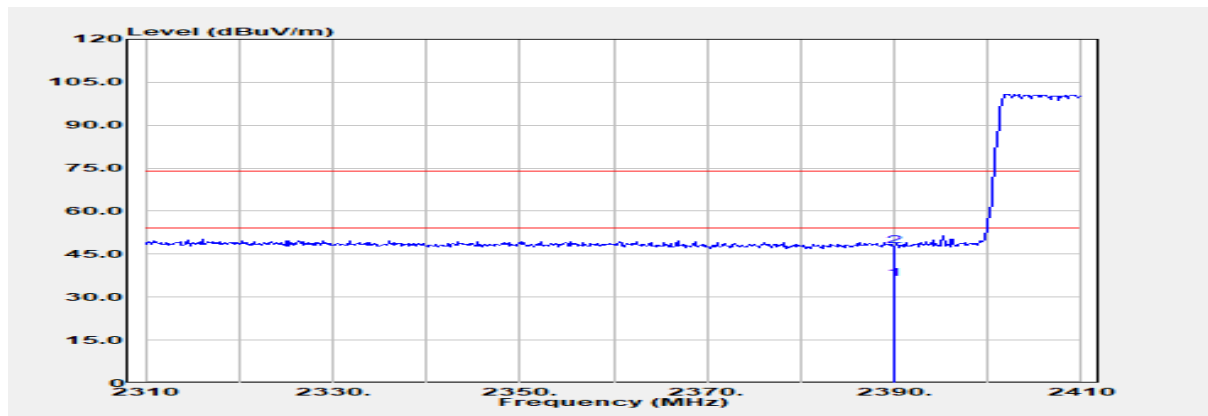
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.000	Average	31.51	5.18	36.69	54.00	-17.31
2390.000	Peak	44.73	5.18	49.91	74.00	-24.09

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Report Number	:E2/2021/30045	Test Site	:966 Chamber C
Operation Mode	:BT BR Hopping	Test Date	:2021-04-09
Test Frequency	:2402 MHz	Temp./Humi.	:22.5/54
Test Mode	:BE CH LOW	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



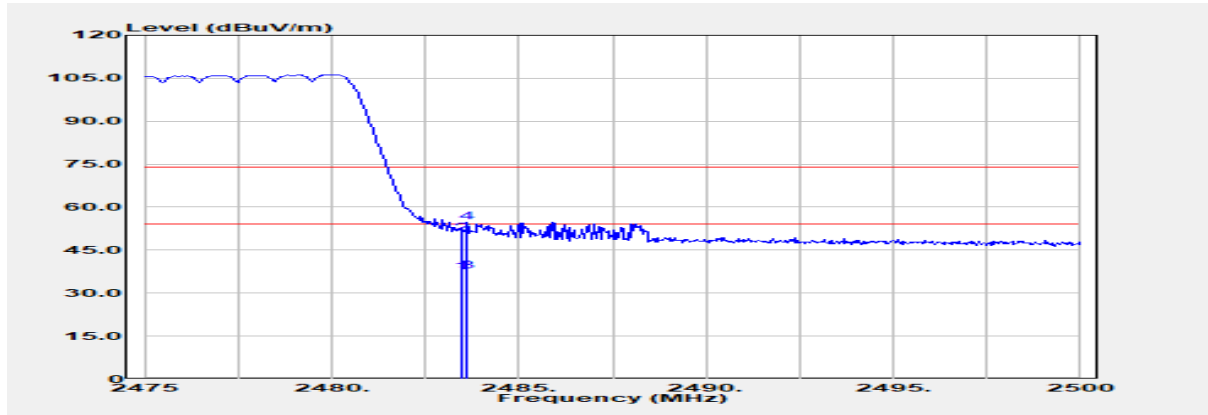
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.000	Average	31.28	5.18	36.46	54.00	-17.54
2390.000	Peak	42.55	5.18	47.73	74.00	-26.27

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Report Number	:E2/2021/30045	Test Site	:966 Chamber C
Operation Mode	:BT BR Hopping	Test Date	:2021-04-09
Test Frequency	:2480 MHz	Temp./Humi.	:22.5/54
Test Mode	:BE CH HIGH	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



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
2483.500	Average	33.32	4.04	37.36	54.00	-16.64
2483.500	Peak	46.80	4.04	50.83	74.00	-23.17
2483.614	Average	33.49	4.03	37.52	54.00	-16.48
2483.614	Peak	50.84	4.03	54.87	74.00	-19.13

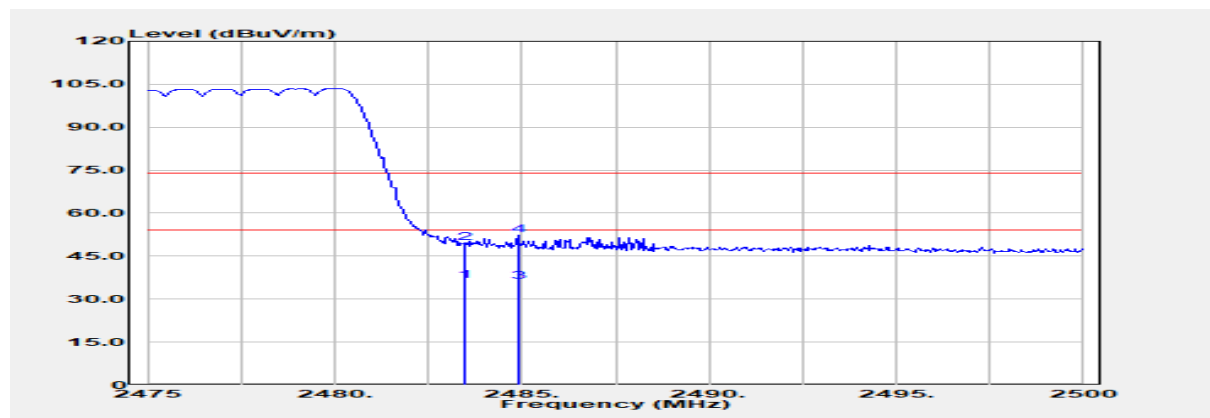
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Report Number :E2/2021/30045
 Operation Mode :BT BR Hopping
 Test Frequency :2480 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plane

Test Site :966 Chamber C
 Test Date :2021-04-09
 Temp./Humi. :22.5/54
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2483.500	Average	32.49	4.04	36.53	54.00	-17.47
2483.500	Peak	45.52	4.04	49.56	74.00	-24.44
2484.896	Average	32.07	4.02	36.09	54.00	-17.91
2484.896	Peak	48.24	4.02	52.26	74.00	-21.74

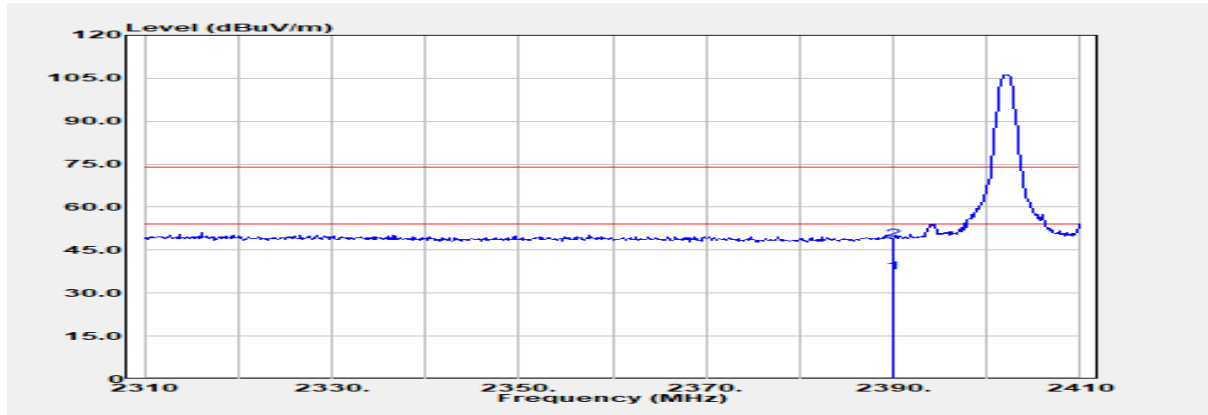
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Report Number :E2/2021/30045
Operation Mode :BT EDR
Test Frequency :2402 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plane

Test Site :966 Chamber C
Test Date :2021-04-09
Temp./Humi. :22.6/55
Antenna Pol. :Vertical
Engineer :Enzo Chang



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
2390.000	Average	32.02	5.18	37.20	54.00	-16.80
2390.000	Peak	43.66	5.18	48.84	74.00	-25.16

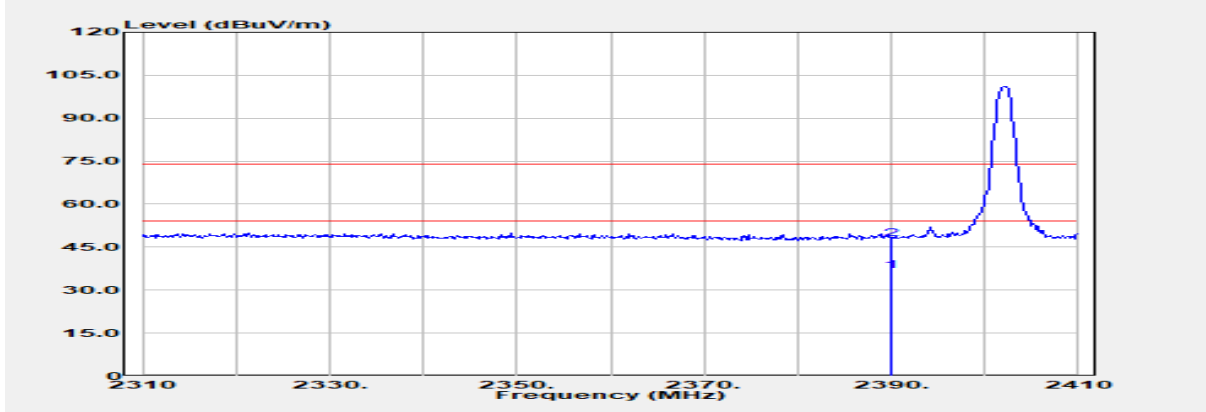
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Report Number :E2/2021/30045
Operation Mode :BT EDR
Test Frequency :2402 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plane

Test Site :966 Chamber C
Test Date :2021-04-09
Temp./Humi. :22.6/55
Antenna Pol. :Horizontal
Engineer :Enzo Chang



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
2390.000	Average	31.54	5.18	36.72	54.00	-17.28
2390.000	Peak	42.63	5.18	47.81	74.00	-26.19

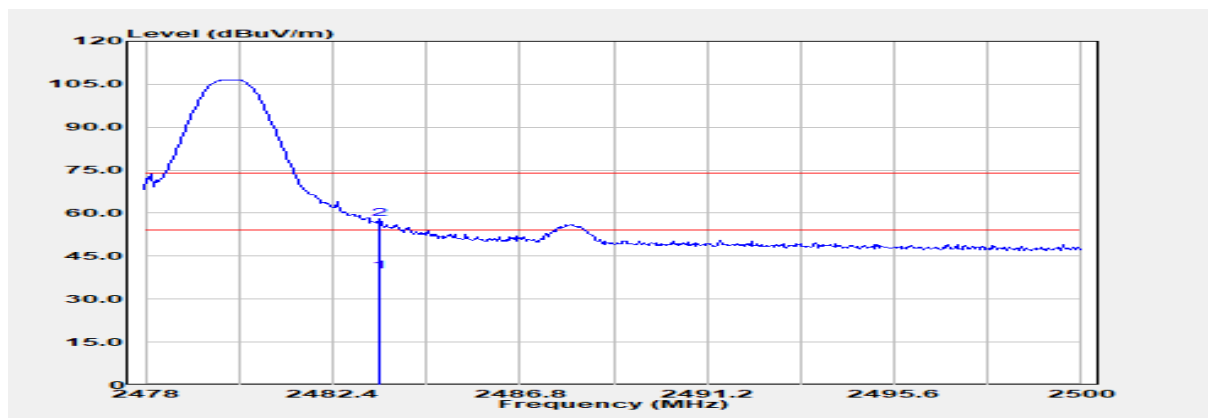
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Report Number :E2/2021/30045
 Operation Mode :BT EDR
 Test Frequency :2480 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plane

Test Site :966 Chamber C
 Test Date :2021-04-09
 Temp./Humi. :22.6/55
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2483.500	Average	35.75	4.04	39.79	54.00	-14.21
2483.500	Peak	54.13	4.04	58.16	74.00	-15.84

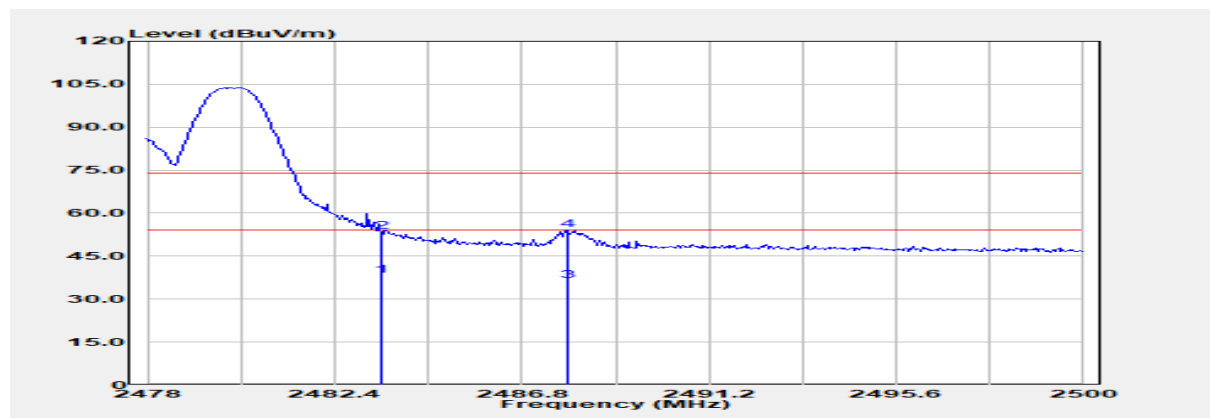
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Report Number :E2/2021/30045
 Operation Mode :BT EDR
 Test Frequency :2480 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plane

Test Site :966 Chamber C
 Test Date :2021-04-09
 Temp./Humi. :22.6/55
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



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
2483.500	Average	34.09	4.04	38.13	54.00	-15.87
2483.500	Peak	49.64	4.04	53.68	74.00	-20.32
2487.861	Average	32.43	4.00	36.43	54.00	-17.57
2487.861	Peak	50.24	4.00	54.23	74.00	-19.77

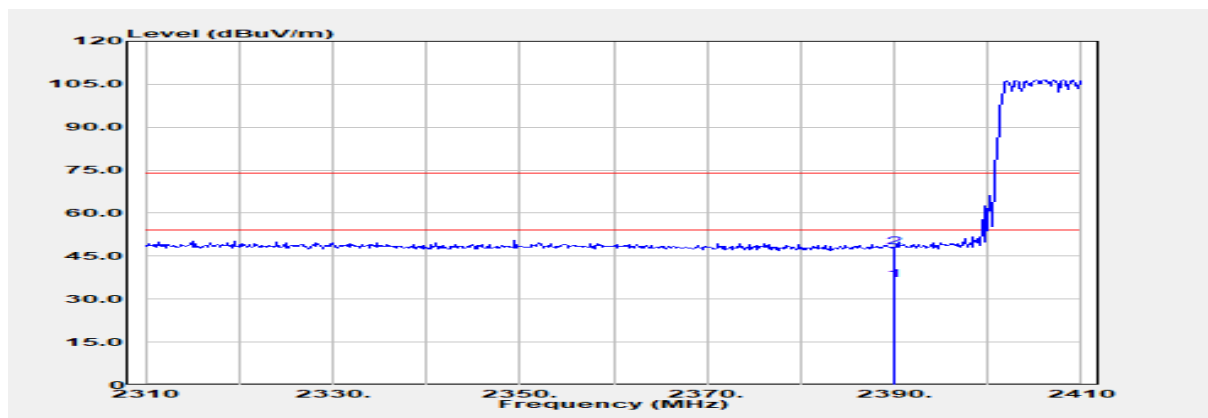
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Report Number :E2/2021/30045
 Operation Mode :BT EDR Hopping
 Test Frequency :2402 MHz
 Test Mode :BE CH LOW
 EUT Pol :E2 Plane

Test Site :966 Chamber C
 Test Date :2021-04-09
 Temp./Humi. :22.7/56
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



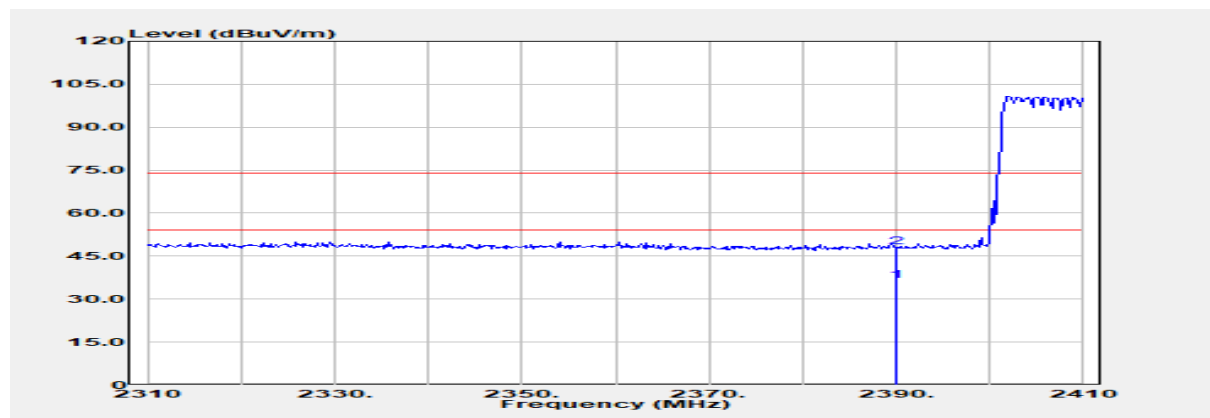
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.000	Average	31.52	5.18	36.70	54.00	-17.30
2390.000	Peak	42.84	5.18	48.02	74.00	-25.98

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Report Number	:E2/2021/30045	Test Site	:966 Chamber C
Operation Mode	:BT EDR Hopping	Test Date	:2021-04-09
Test Frequency	:2402 MHz	Temp./Humi.	:22.7/56
Test Mode	:BE CH LOW	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



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
2390.000	Average	31.23	5.18	36.41	54.00	-17.59
2390.000	Peak	43.06	5.18	48.24	74.00	-25.76

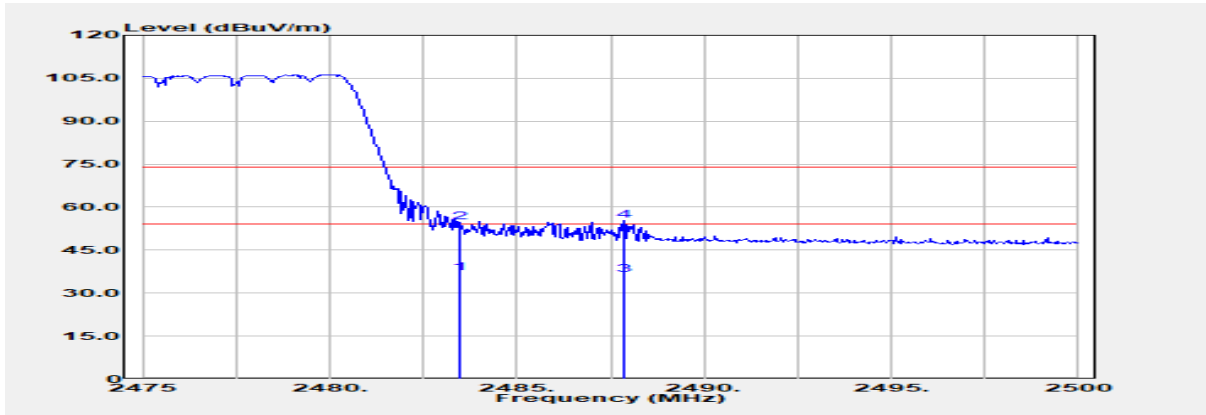
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Report Number :E2/2021/30045
 Operation Mode :BT EDR Hopping
 Test Frequency :2480 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plane

Test Site :966 Chamber C
 Test Date :2021-04-09
 Temp./Humi. :22.7/56
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



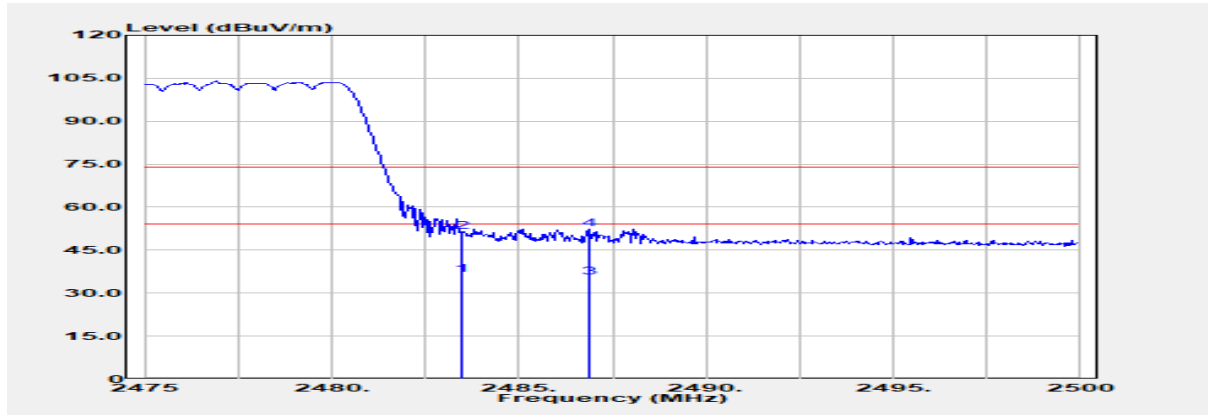
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	33.08	4.04	37.12	54.00	-16.88
2483.500	Peak	50.76	4.04	54.80	74.00	-19.20
2487.861	Average	32.32	4.00	36.32	54.00	-17.68
2487.861	Peak	51.29	4.00	55.29	74.00	-18.71

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Report Number	:E2/2021/30045	Test Site	:966 Chamber C
Operation Mode	:BT EDR Hopping	Test Date	:2021-04-09
Test Frequency	:2480 MHz	Temp./Humi.	:22.7/56
Test Mode	:BE CH HIGH	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



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
2483.500	Average	32.23	4.04	36.27	54.00	-17.73
2483.500	Peak	47.52	4.04	51.55	74.00	-22.45
2486.899	Average	31.48	4.00	35.48	54.00	-18.52
2486.899	Peak	48.47	4.00	52.48	74.00	-21.52

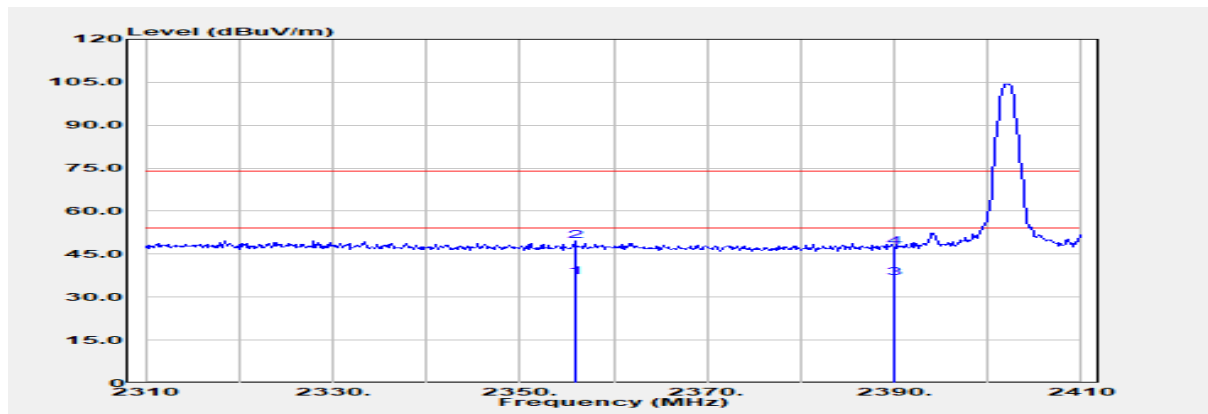
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10.7.2 Radiated Bandedge Result (Non-Hopping Mode)

Report Number	:E2/2021/30045	Test Site	:966 Chamber C
Operation Mode	:BT BR	Test Date	:2021-04-09
Test Frequency	:2402 MHz	Temp./Humi.	:22.2/60
Test Mode	:BE CH LOW	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Andy Wang



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
2355.833	Average	31.47	5.43	36.90	54.00	-17.10
2355.833	Peak	44.31	5.43	49.74	74.00	-24.26
2390.000	Average	31.57	5.18	36.75	54.00	-17.25
2390.000	Peak	42.47	5.18	47.65	74.00	-26.35

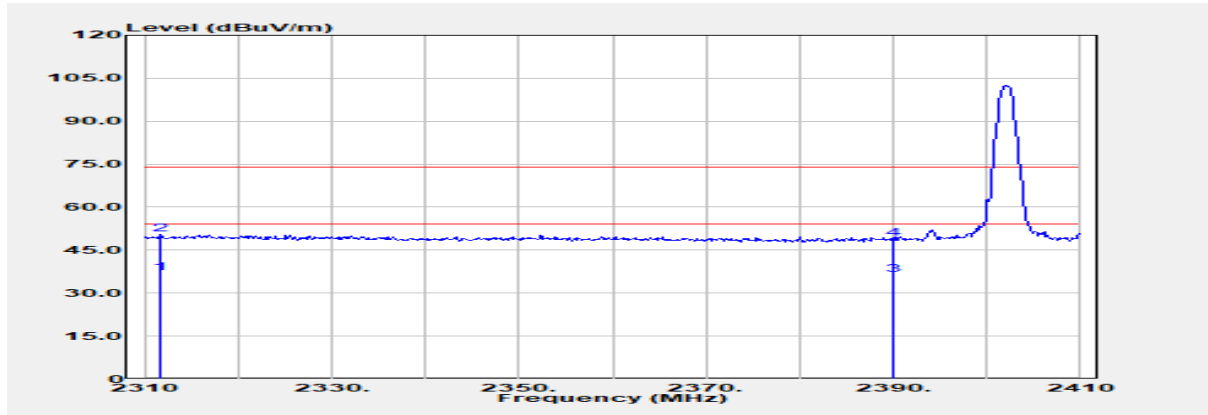
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Report Number :E2/2021/30045
Operation Mode :BT BR
Test Frequency :2402 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plane

Test Site :966 Chamber C
Test Date :2021-04-09
Temp./Humi. :22.2/60
Antenna Pol. :Horizontal
Engineer :Andy Wang



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
2311.763	Average	31.21	5.76	36.97	54.00	-17.03
2311.763	Peak	44.75	5.76	50.51	74.00	-23.49
2390.000	Average	31.33	5.18	36.51	54.00	-17.49
2390.000	Peak	43.86	5.18	49.04	74.00	-24.96

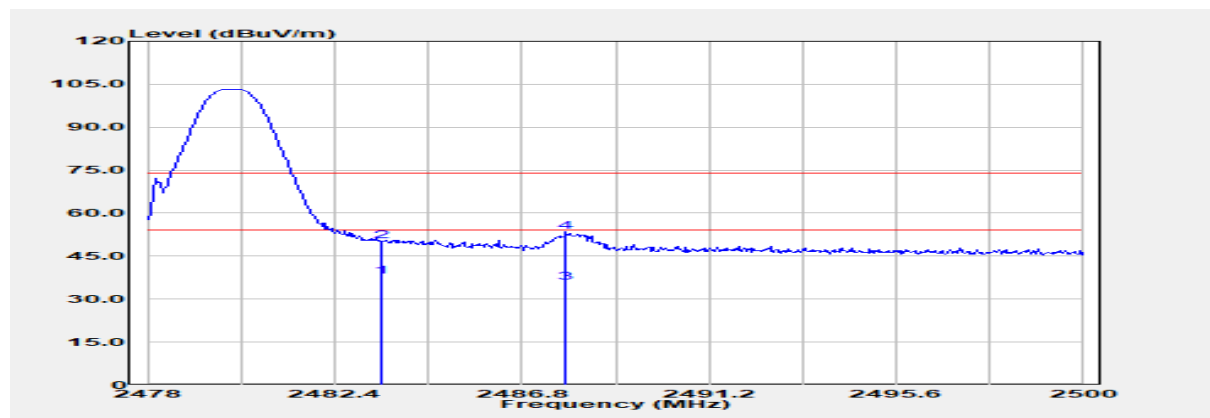
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Report Number :E2/2021/30045
 Operation Mode :BT BR
 Test Frequency :2480 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plane

Test Site :966 Chamber C
 Test Date :2021-04-09
 Temp./Humi. :22.2/60
 Antenna Pol. :Vertical
 Engineer :Andy Wang



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
2483.500	Average	33.78	4.04	37.82	54.00	-16.18
2483.500	Peak	46.11	4.04	50.14	74.00	-23.86
2487.836	Average	31.93	4.00	35.93	54.00	-18.07
2487.836	Peak	49.50	4.00	53.50	74.00	-20.50

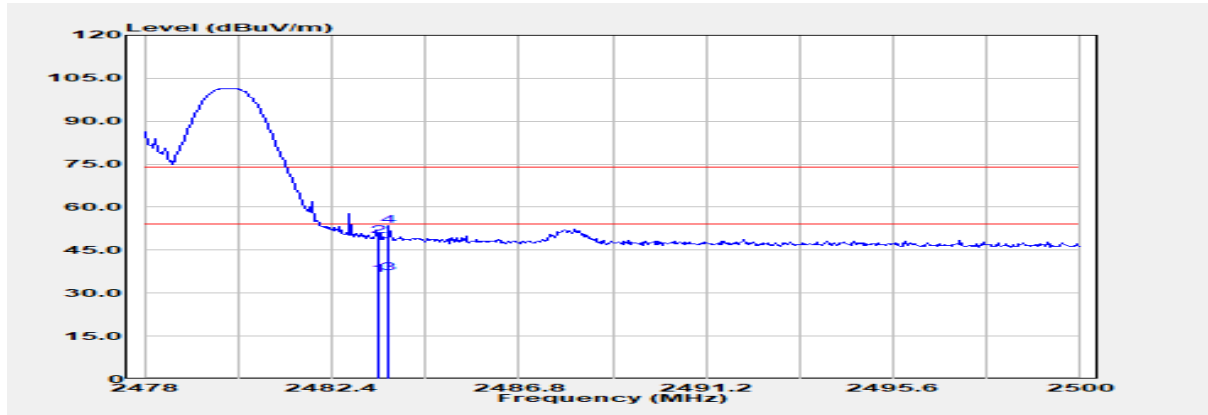
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Report Number :E2/2021/30045
Operation Mode :BT BR
Test Frequency :2480 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plane

Test Site :966 Chamber C
Test Date :2021-04-09
Temp./Humi. :22.2/60
Antenna Pol. :Horizontal
Engineer :Andy Wang



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
2483.500	Average	32.26	4.04	36.30	54.00	-17.70
2483.500	Peak	45.79	4.04	49.82	74.00	-24.18
2483.747	Average	33.08	4.03	37.11	54.00	-16.89
2483.747	Peak	49.56	4.03	53.59	74.00	-20.41

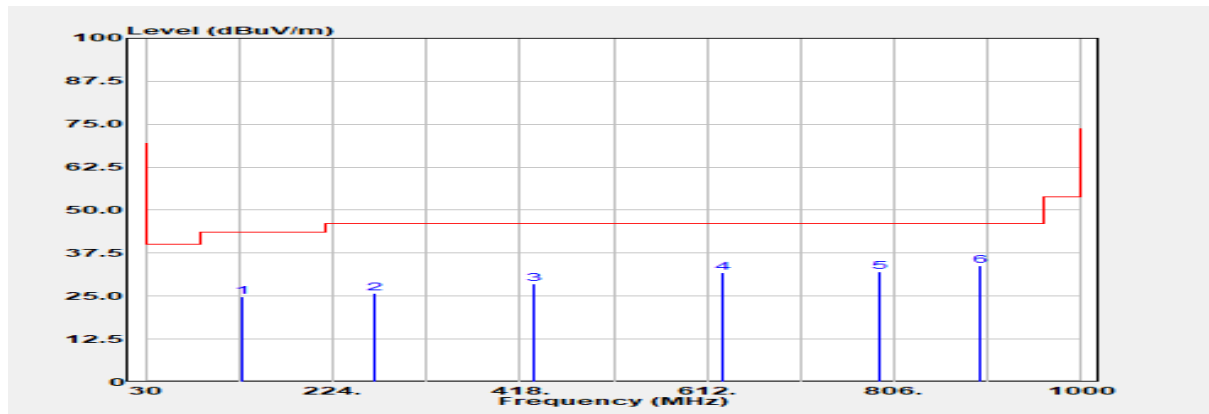
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10.7.3 Radiated Spurious Emission form 30MHz to 1000MHz:

Report Number	:E2/2021/30045	Test Site	:966 Chamber C
Operation Mode	:BT BR	Test Date	:2021-04-12
Test Frequency	:2441 MHz	Temp./Humi.	:23.1/62
Test Mode	:TX CH MID	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
131.042	Peak	41.76	-16.98	24.78	43.50	-18.72
266.282	Peak	41.29	-15.50	25.79	46.00	-20.21
432.612	Peak	40.12	-11.63	28.49	46.00	-17.51
626.923	Peak	40.27	-8.40	31.88	46.00	-14.12
791.699	Peak	39.16	-7.03	32.13	46.00	-13.87
895.849	Peak	39.24	-5.49	33.75	46.00	-12.25

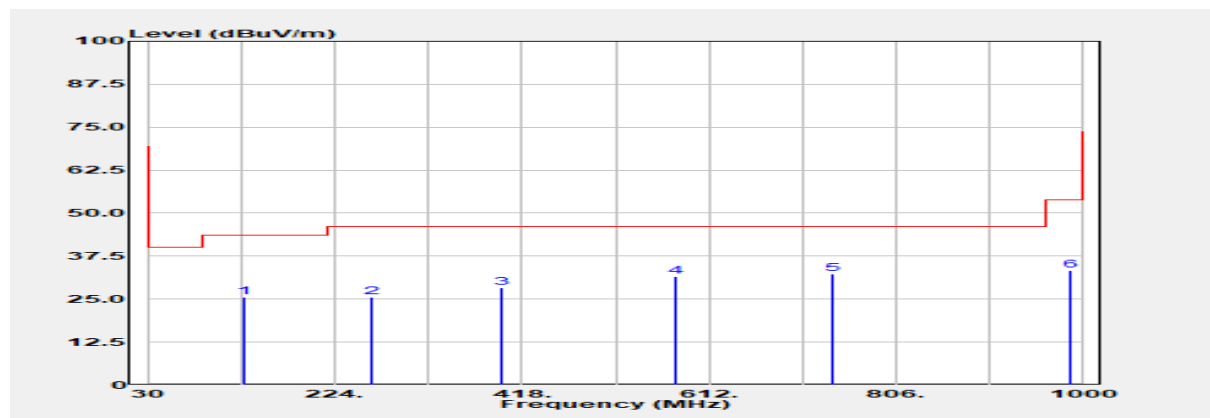
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Report Number :E2/2021/30045
 Operation Mode :BT BR
 Test Frequency :2441 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plane

Test Site :966 Chamber C
 Test Date :2021-04-12
 Temp./Humi. :23.1/62
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
131.042	Peak	42.46	-16.98	25.48	43.50	-18.02
261.619	Peak	40.69	-15.09	25.60	46.00	-20.40
396.859	Peak	40.89	-12.58	28.31	46.00	-17.69
577.180	Peak	40.39	-8.75	31.63	46.00	-14.37
738.846	Peak	39.54	-7.17	32.37	46.00	-13.63
986.010	Peak	38.35	-5.14	33.21	54.00	-20.79

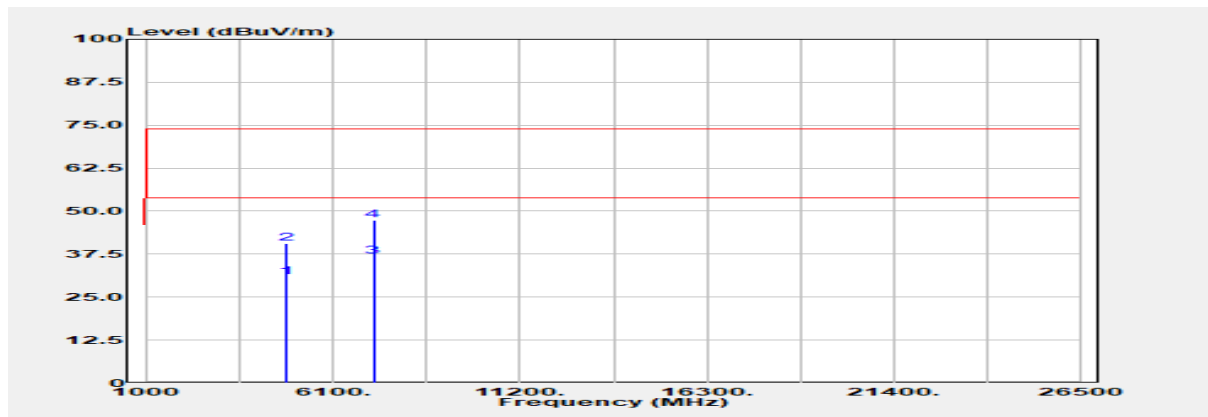
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10.7.4 Radiated Spurious Emission above 1 GHz:

Report Number	:E2/2021/30045	Test Site	:966 Chamber C
Operation Mode	:BT BR	Test Date	:2021-04-09
Test Frequency	:2402 MHz	Temp./Humi.	:22.1/59
Test Mode	:TX CH LOW	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Average	20.07	10.87	30.94	54.00	-23.06
4804.000	Peak	29.81	10.87	40.68	74.00	-33.32
7206.000	Average	19.46	17.27	36.73	54.00	-17.27
7206.000	Peak	30.00	17.27	47.27	74.00	-26.73

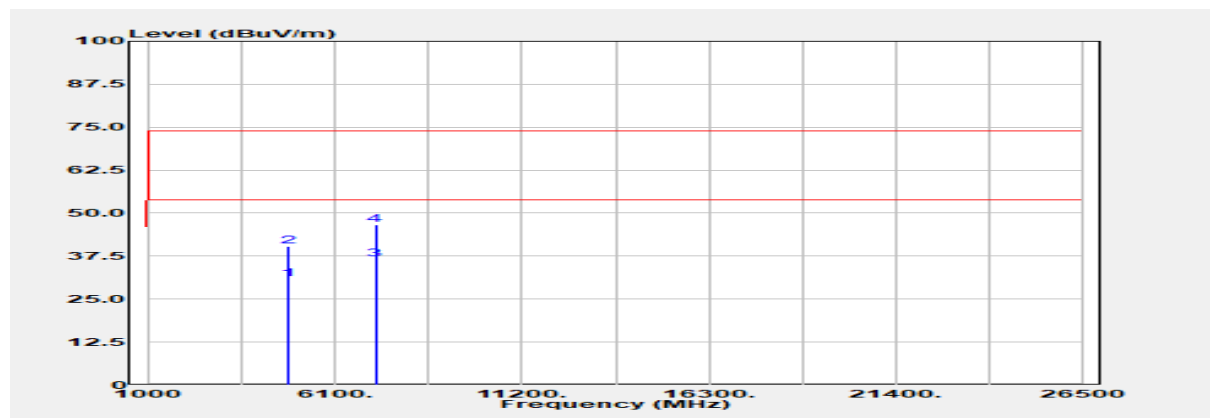
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Report Number :E2/2021/30045
 Operation Mode :BT BR
 Test Frequency :2402 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plane

Test Site :966 Chamber C
 Test Date :2021-04-09
 Temp./Humi. :22.1/59
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4804.000	Average	20.05	10.87	30.92	54.00	-23.08
4804.000	Peak	29.51	10.87	40.38	74.00	-33.62
7206.000	Average	19.44	17.27	36.71	54.00	-17.29
7206.000	Peak	29.30	17.27	46.57	74.00	-27.43

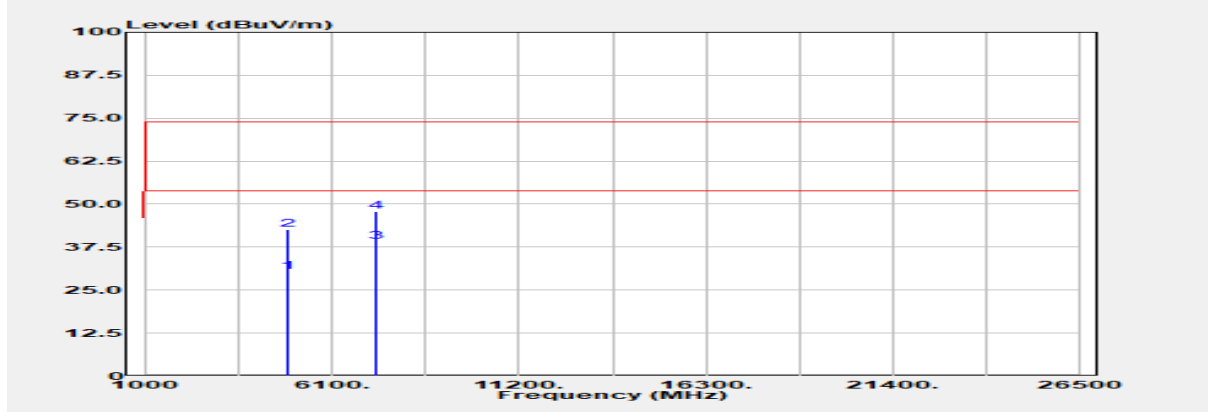
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Report Number :E2/2021/30045
Operation Mode :BT BR
Test Frequency :2441 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plane

Test Site :966 Chamber C
Test Date :2021-04-09
Temp./Humi. :22.1/59
Antenna Pol. :Vertical
Engineer :Enzo Chang



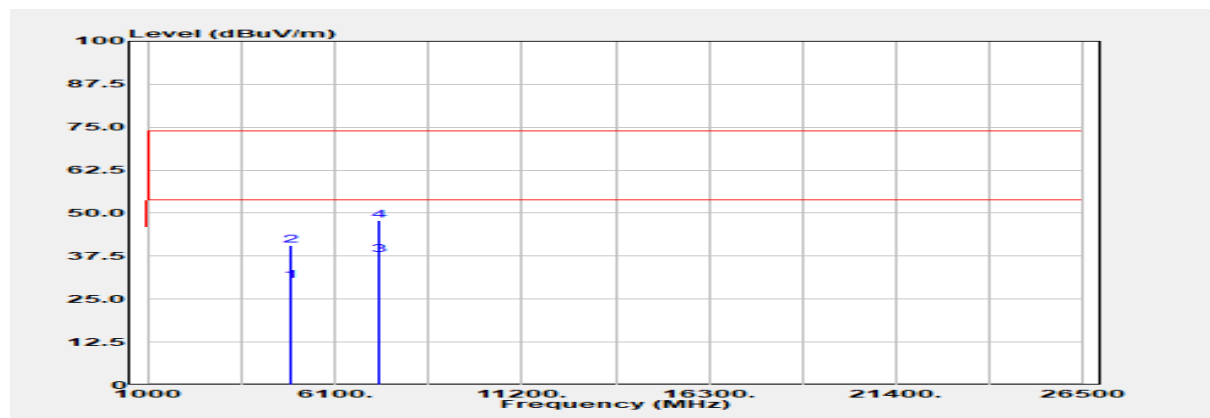
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4882.000	Average	20.13	10.12	30.25	54.00	-23.75
4882.000	Peak	32.39	10.12	42.50	74.00	-31.50
7323.000	Average	20.49	18.49	38.98	54.00	-15.02
7323.000	Peak	29.50	18.49	47.99	74.00	-26.01

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Report Number :E2/2021/30045
Operation Mode :BT BR
Test Frequency :2441 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plane

Test Site :966 Chamber C
Test Date :2021-04-09
Temp./Humi. :22.1/59
Antenna Pol. :Horizontal
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4882.000	Average	20.10	10.12	30.22	54.00	-23.78
4882.000	Peak	30.54	10.12	40.66	74.00	-33.34
7323.000	Average	19.46	18.49	37.95	54.00	-16.05
7323.000	Peak	29.38	18.49	47.87	74.00	-26.13

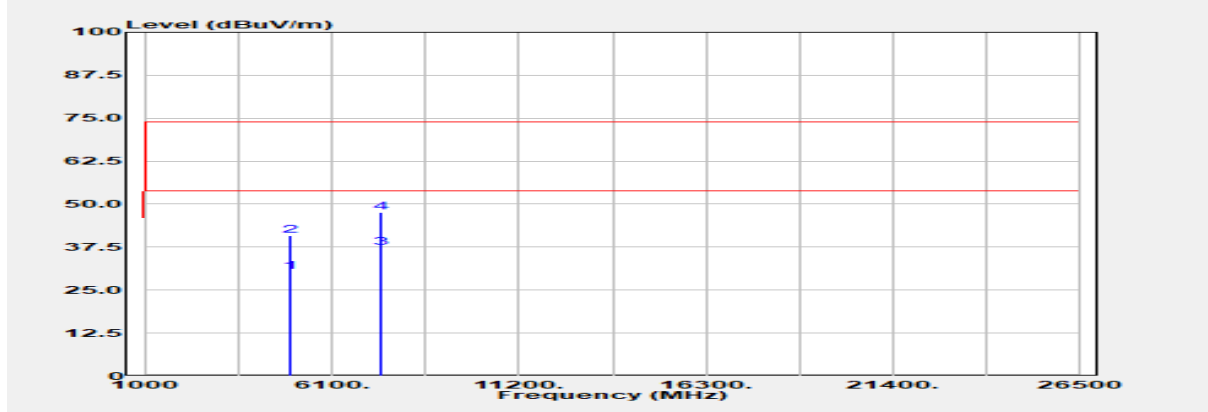
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Report Number :E2/2021/30045
Operation Mode :BT BR
Test Frequency :2480 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plane

Test Site :966 Chamber C
Test Date :2021-04-09
Temp./Humi. :22.1/59
Antenna Pol. :Vertical
Engineer :Enzo Chang

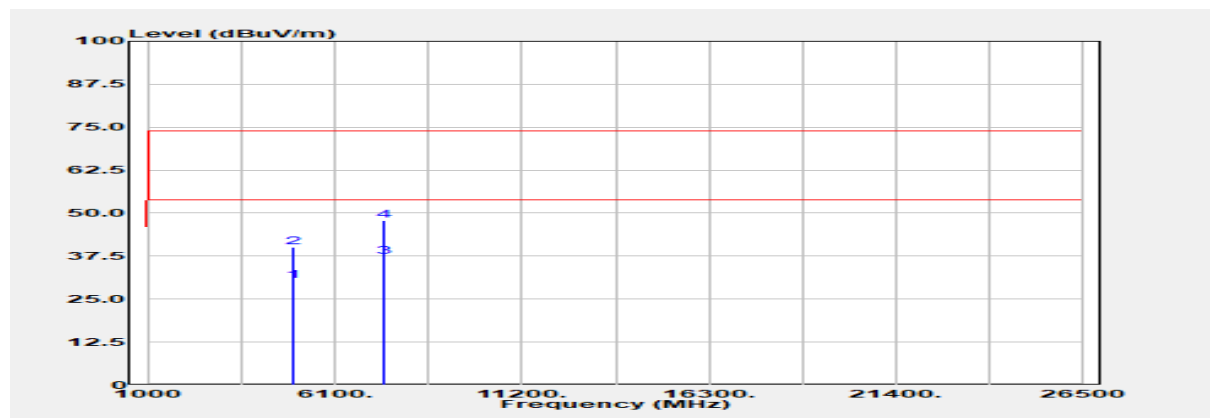


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4960.000	Average	20.09	10.20	30.29	54.00	-23.71
4960.000	Peak	30.76	10.20	40.96	74.00	-33.04
7440.000	Average	19.42	17.86	37.28	54.00	-16.72
7440.000	Peak	29.69	17.86	47.55	74.00	-26.45

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Report Number	:E2/2021/30045	Test Site	:966 Chamber C
Operation Mode	:BT BR	Test Date	:2021-04-09
Test Frequency	:2480 MHz	Temp./Humi.	:22.1/59
Test Mode	:TX CH HIGH	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4960.000	Average	20.04	10.20	30.24	54.00	-23.76
4960.000	Peak	29.98	10.20	40.19	74.00	-33.81
7440.000	Average	19.47	17.86	37.33	54.00	-16.67
7440.000	Peak	29.92	17.86	47.78	74.00	-26.22

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11 FREQUENCY SEPARATION

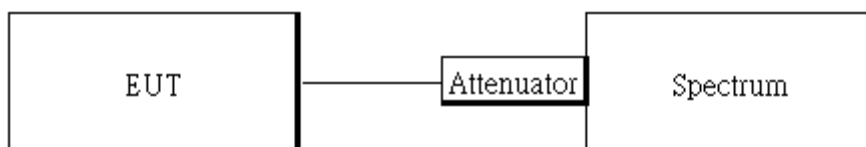
11.1 Standard Applicable

Frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25 kHz or the 2/3*20dB bandwidth of the hopping channel, whichever is greater.

11.2 Measurement Equipment Used

Conducted Emission Test Site: Conducted C					
EQUIPMENT TYPE	MFR/BRAND	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/23/2020	07/22/2021
DC Block	PASTERNAK	PE8210	RF152	11/19/2020	11/18/2021
Coaxial Cables	Woken	00100A1F2A196C	RF51	11/19/2020	11/18/2021

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	≥ 25 kHz or 2/3 times 20dB bandwidth	PASS

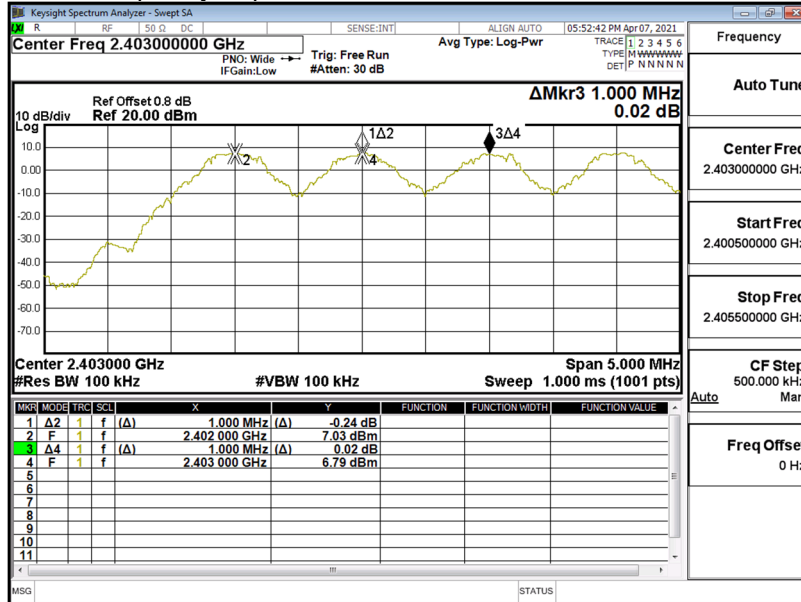
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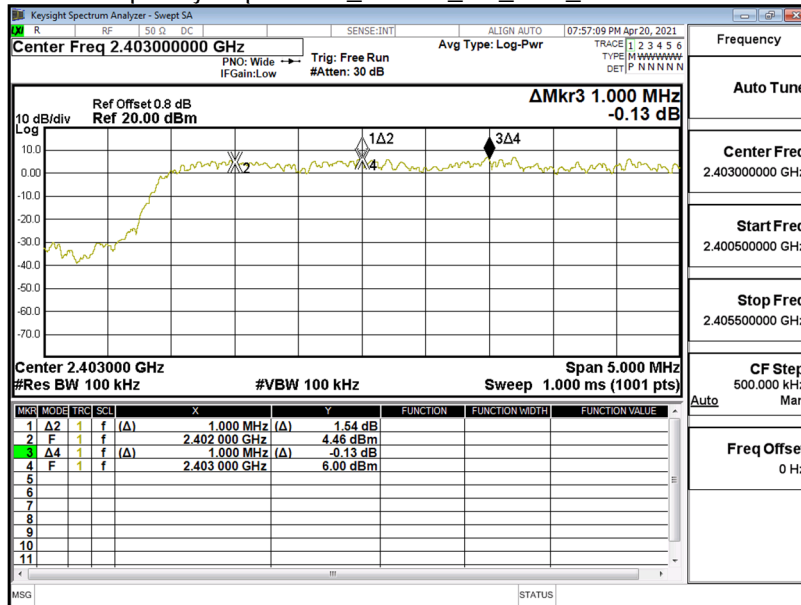
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11.6 Frequency Separation Test Plots

Frequency Separation_GFSK_1M_DH5_CH0CH1CH2



Frequency Separation_8DPSK_3M_DH5_CH0CH1CH2



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12 NUMBER OF HOPPING FREQUENCY

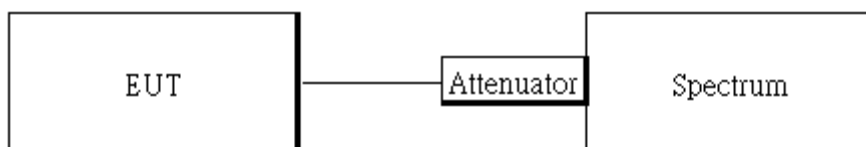
12.1 Standard Applicable

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: Conducted C					
EQUIPMENT TYPE	MFR/BRAND	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/23/2020	07/22/2021
DC Block	PASTERNAK	PE8210	RF152	11/19/2020	11/18/2021
Coaxial Cables	Woken	00100A1F2A196C	RF51	11/19/2020	11/18/2021

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	

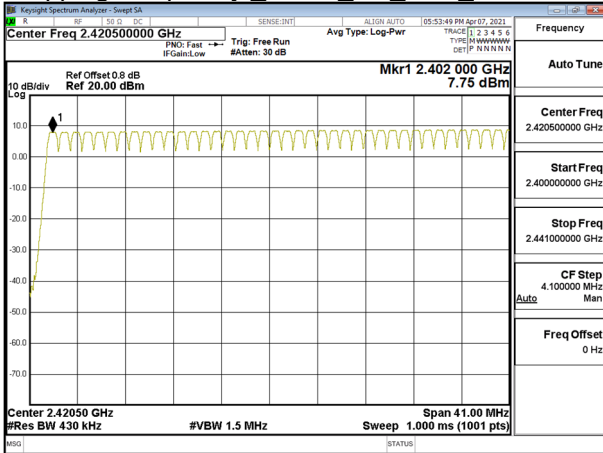
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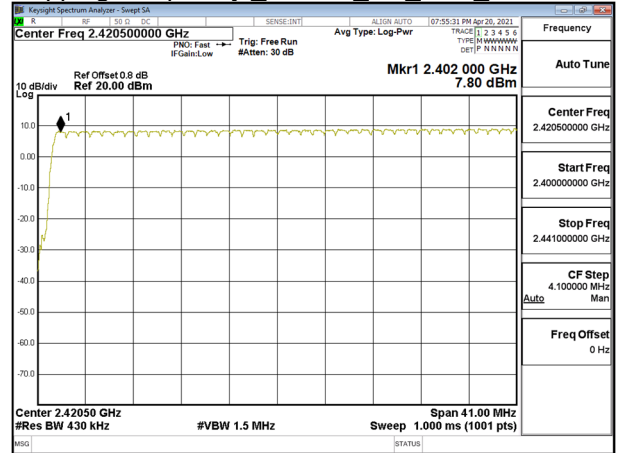
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12.6 Channel Number Test Plots

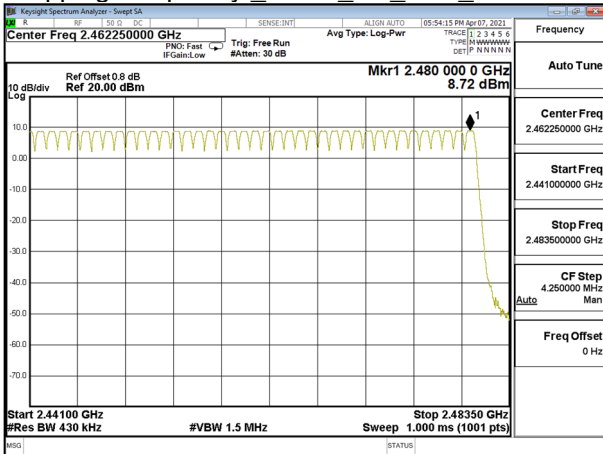
Hopping Frequency_GFSK_1M_DH5_2400-2441



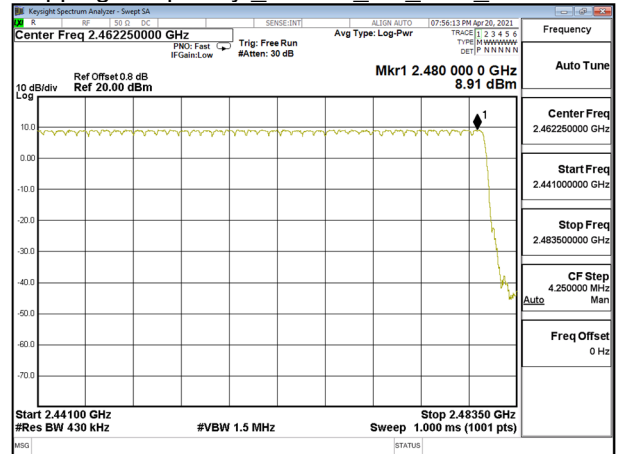
Hopping Frequency_8DPSK_3M_DH5_2400-2441



Hopping Frequency_GFSK_1M_DH5_2441-2480



Hopping Frequency_8DPSK_3M_DH5_2441-2480



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13 TIME OF OCCUPANCY (DWELL TIME)

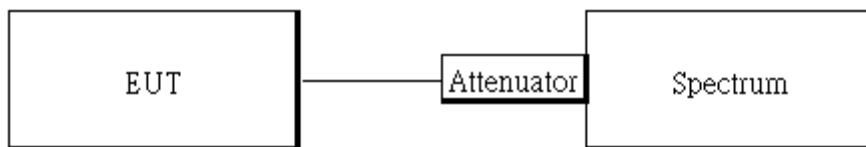
13.1 Standard Applicable

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 C					
EQUIPMENT TYPE	MFR/BRAND	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/23/2020	07/22/2021
DC Block	PASTERNAK	PE8210	RF152	11/19/2020	11/18/2021
Coaxial Cables	Woken	00100A1F2A196C	RF51	11/19/2020	11/18/2021

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)
Mid	DH1	124.80	400ms	2.564	3.00
	DH3	264.00	400ms	0.606	1.00
	DH5	307.20	400ms	0.347	1.00

$\pi/4$ DQPSK (2Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)	1/T (kHz)	VBW setting (kHz)
Mid	2DH1	126.40	400ms	2.532	3.00
	2DH3	264.00	400ms	0.606	1.00
	2DH5	308.80	400ms	0.345	1.00

8-DPSK (3Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)	1/T (kHz)	VBW setting (kHz)
Mid	3DH1	128.00	400ms	2.500	3.00
	3DH3	264.00	400ms	0.606	1.00
	3DH5	308.80	400ms	0.345	1.00

NOTE: cable loss as 0.8dB that offsets in the spectrum

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GFSK (1Mbps):

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

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

CH Mid	2DH1 time slot	=	0.395 *	(1600/2/79)	*	31.6	=	126.40 (ms)
	2DH3 time slot	=	1.650 *	(1600/4/79)	*	31.6	=	264.00 (ms)
	2DH5 time slot	=	2.895 *	(1600/6/79)	*	31.6	=	308.80 (ms)

8-DPSK (3Mbps):

CH Mid	3DH1 time slot	=	0.400 *	(1600/2/79)	*	31.6	=	128.00 (ms)
	3DH3 time slot	=	1.650 *	(1600/4/79)	*	31.6	=	264.00 (ms)
	3DH5 time slot	=	2.895 *	(1600/6/79)	*	31.6	=	308.80 (ms)

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

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

13.6 Measurement Result

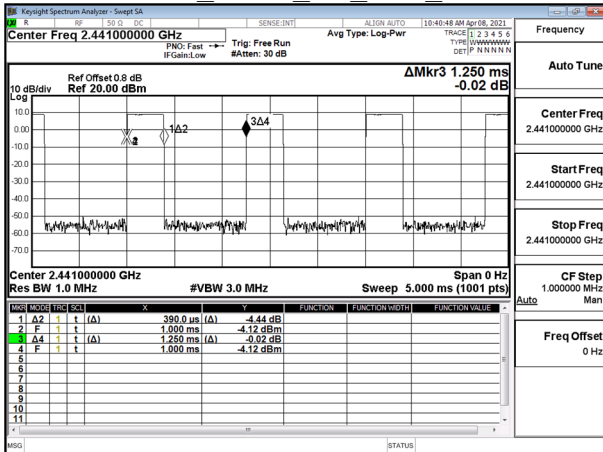
Note: Refer to next page for plots.

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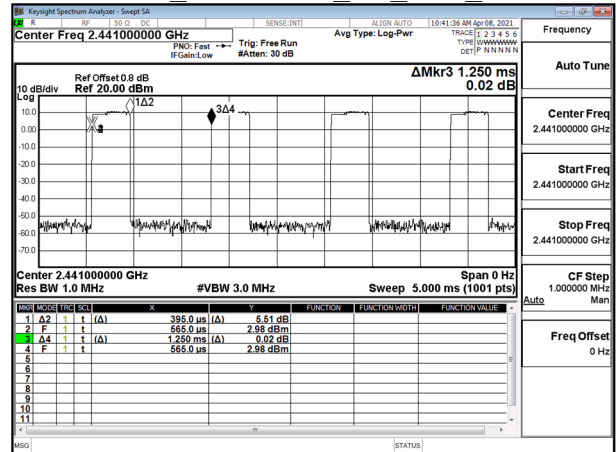
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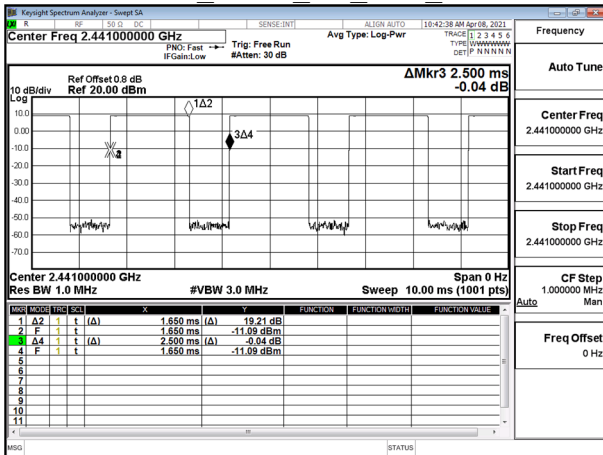
Dwell Time GFSK 1M DH1 2441MHz



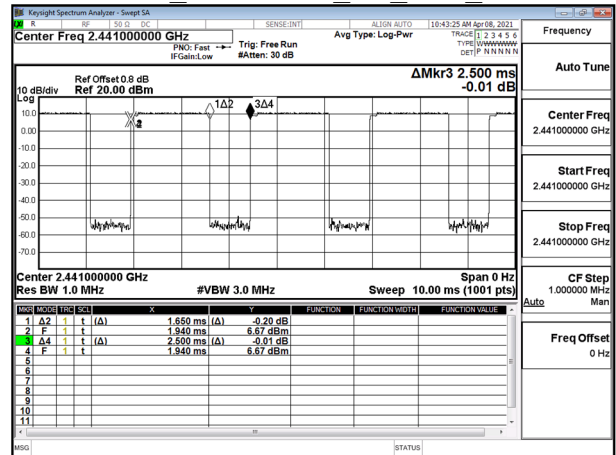
Dwell Time $\pi/4$ DQPSK 2M DH1 2441MHz



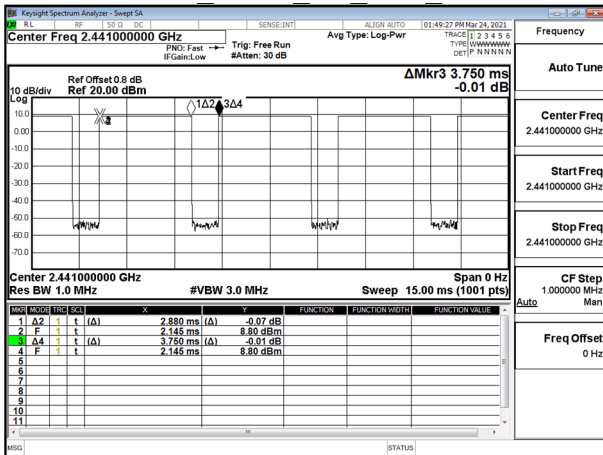
Dwell Time GFSK 1M DH3 2441MHz



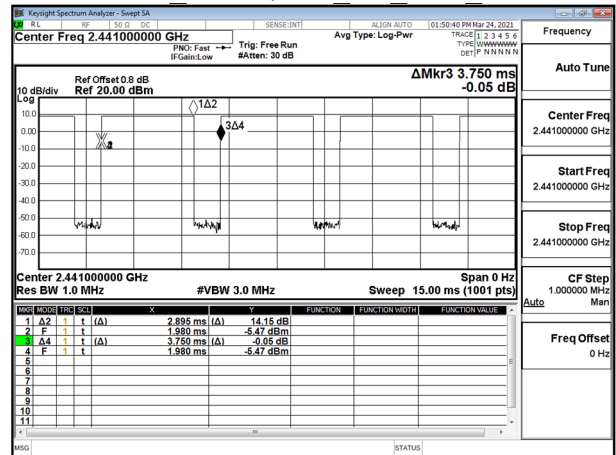
Dwell Time $\pi/4$ DQPSK 2M DH3 2441MHz



Dwell Time GFSK 1M DH5 2441MHz



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

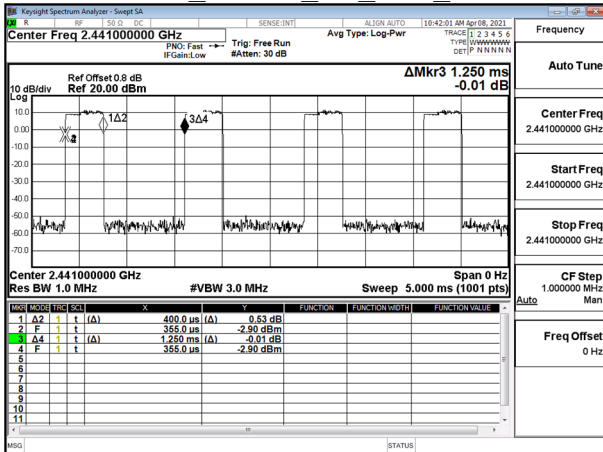


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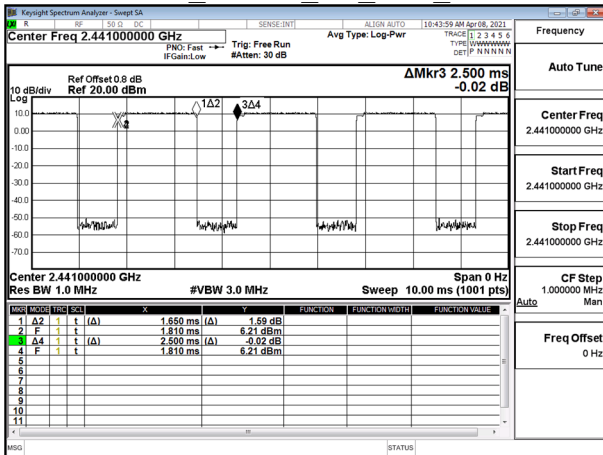
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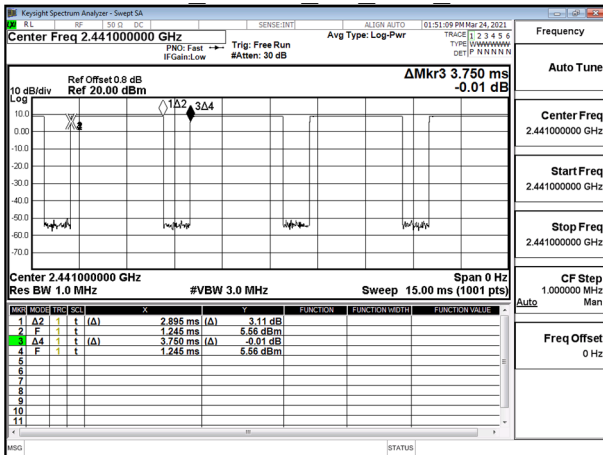
Dwell Time 8DPSK 3M DH1 2441MHz



Dwell Time 8DPSK 3M DH3 2441MHz



Dwell Time 8DPSK 3M DH5 2441MHz



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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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