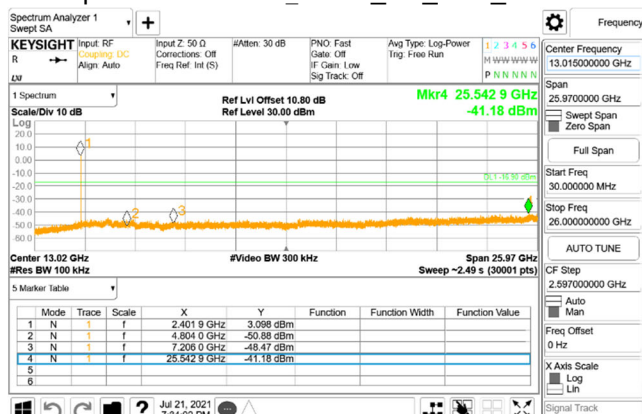
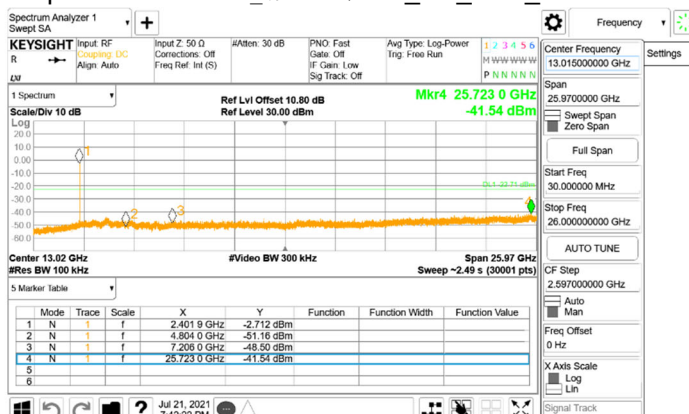


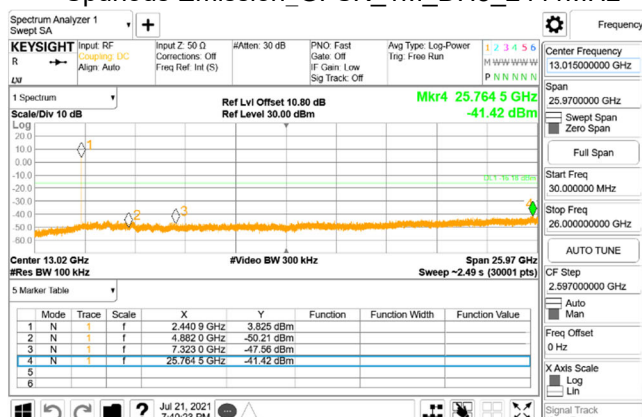
## Spurious Emission\_GFSK\_1M\_DH5\_2402MHz



## Spurious Emission\_π/4DQPSK\_2M\_DH5\_2402MHz



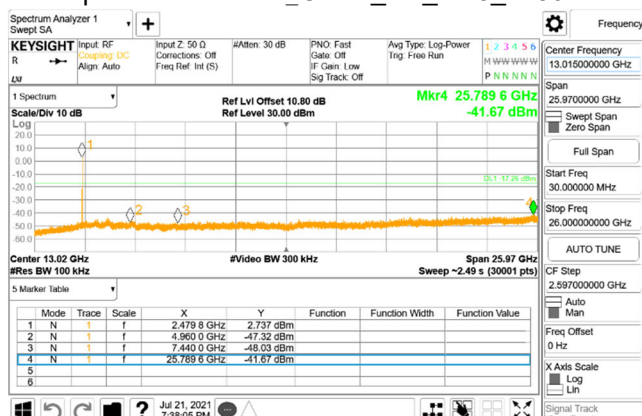
## Spurious Emission\_GFSK\_1M\_DH5\_2441MHz



## π/4DQPSK\_2M\_DH5\_2441MHz



## Spurious Emission\_GFSK\_1M\_DH5\_2480MHz



## Spurious Emission\_π/4DQPSK\_2M\_DH5\_2480MHz



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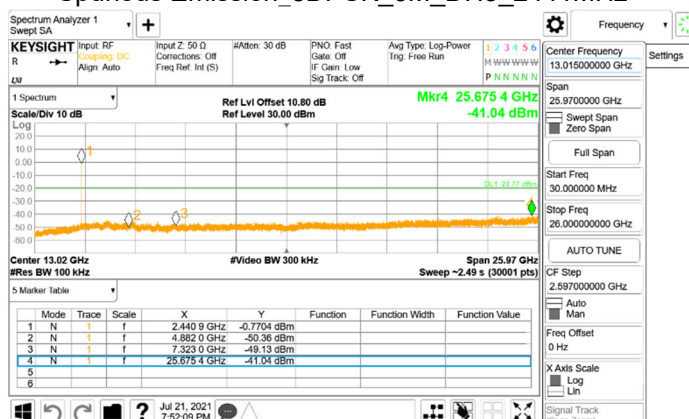
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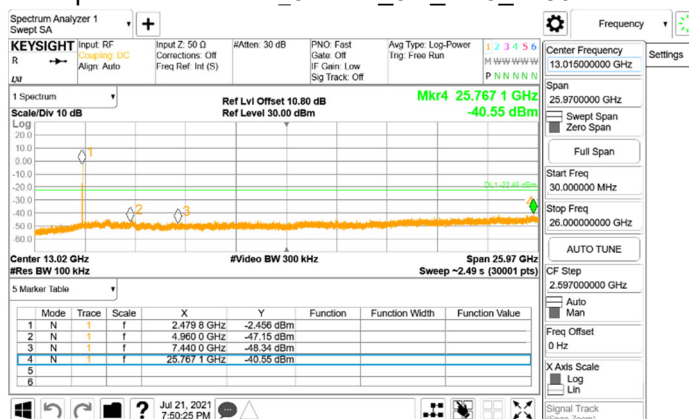
### Spurious Emission\_8DPSK\_3M\_DH5\_2402MHz



### 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 D					
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	BBHA9120D	1341	06/22/2020	06/21/2021
Horn Antenna	Schwarzbeck	BBHA9170	185	07/30/2020	07/29/2021
Loop Antenna	ETS.LINDGREN	6502	148045	10/19/2020	10/18/2021
3m Site NSA	SGS	966 chamber D	N/A	07/12/2020	07/11/2021
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	07/08/2020	07/07/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2020	10/26/2021
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/19/2020	11/18/2021
Pre-Amplifier	EMC Instruments	EMC12630SE	980271	11/19/2020	11/18/2021
Attenuator	Marvelous	WATT-218FS-10	RF25	11/19/2020	11/18/2021
High Pass Filter	R&S	F13 HPF 3GHz	RF175	11/19/2020	11/18/2021
Lowpass Filter	Woken	EWT-56-0019	RF173	11/19/2020	11/18/2021
Notch Filter	Woken	EWT-54-0038	RF178	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	EMC106-SM-SM-7200	150703	11/19/2020	11/18/2021
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	11/19/2020	11/18/2021

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Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWAZBECK	VULB 9168	9168-617	11/11/2020	11/10/2021
Horn Antenna	Schwarzbeck	BBHA9170	184	12/11/2020	12/10/2021
Horn Antenna	Schwarzbeck	BBHA9120D	1341	06/04/2021	06/03/2022
Loop Antenna	ETS.LIND-GREN	6502	143303	05/07/2021	05/06/2022
3m Site NSA	SGS	966 chamber D	N/A	07/12/2021	07/11/2022
Test Software	audix	e3	E3 20923 SGS Ver.9 ( C )	N.C.R	N.C.R
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/22/2021	03/21/2022
Band Rejection Filter	Micro-Tronics	BRM50701-01	RF201	11/19/2020	11/18/2021

*Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown above indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.*

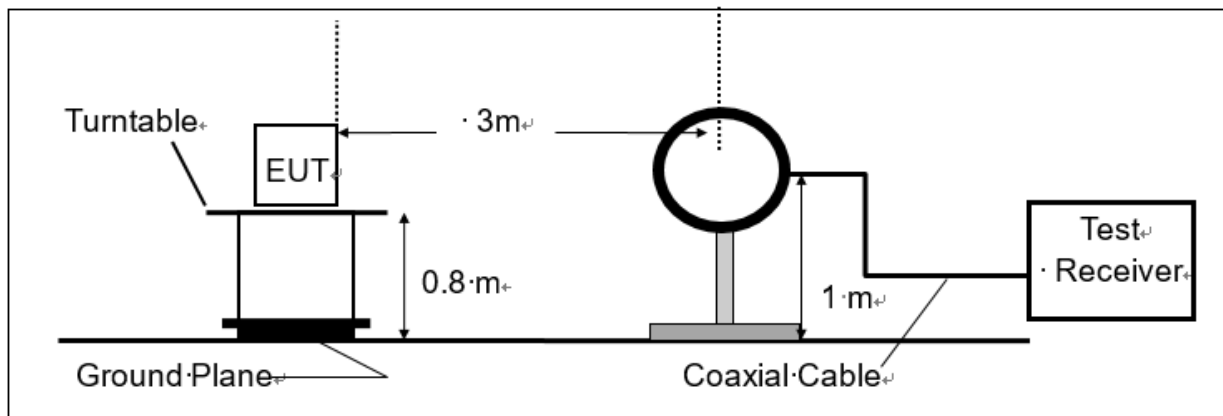
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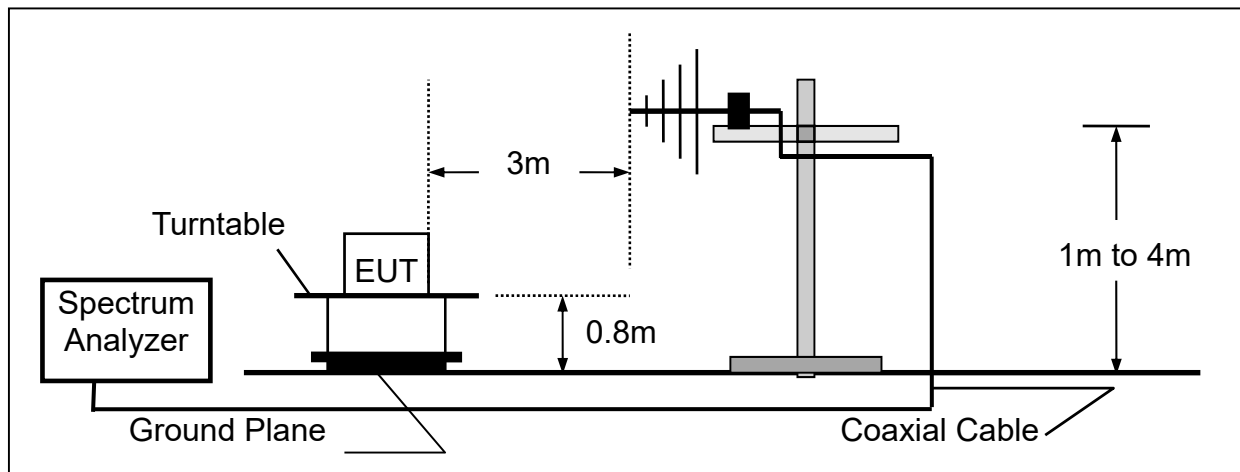
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## 10.3 Test SET-UP

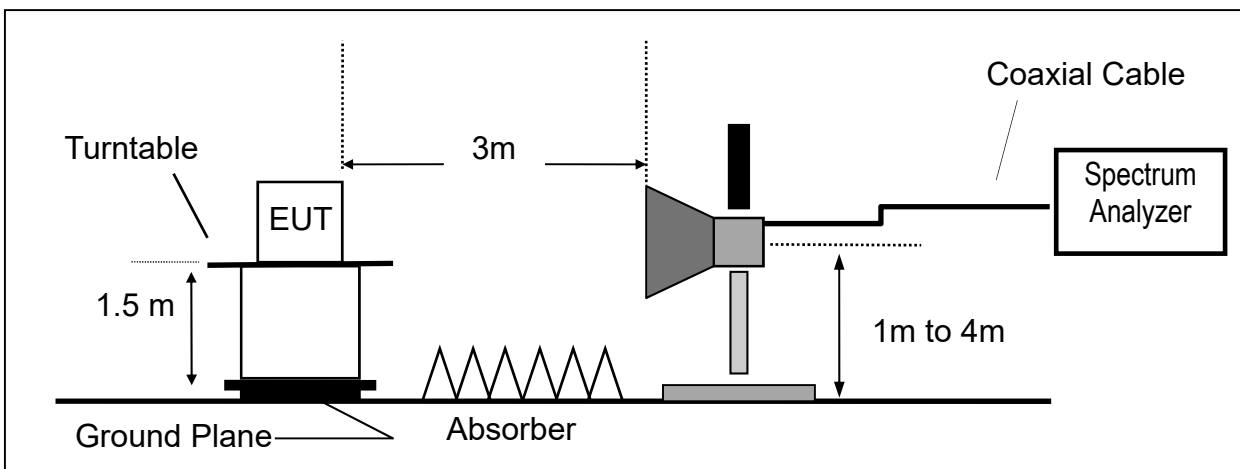
### (A) Radiated Emission Test Set-UP Frequency Below 30MHz.



### (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 Bandedge

### 10.7.2 DANT-Dipole Ant No.5

#### BR hopping

Report Number :E2/2021/30016

Test Site :SAC D

Operation Mode :BT BR HOPPING

Test Date :2021-08-23

Test Frequency :2402 MHz

Temp./Humi. :23.7/65

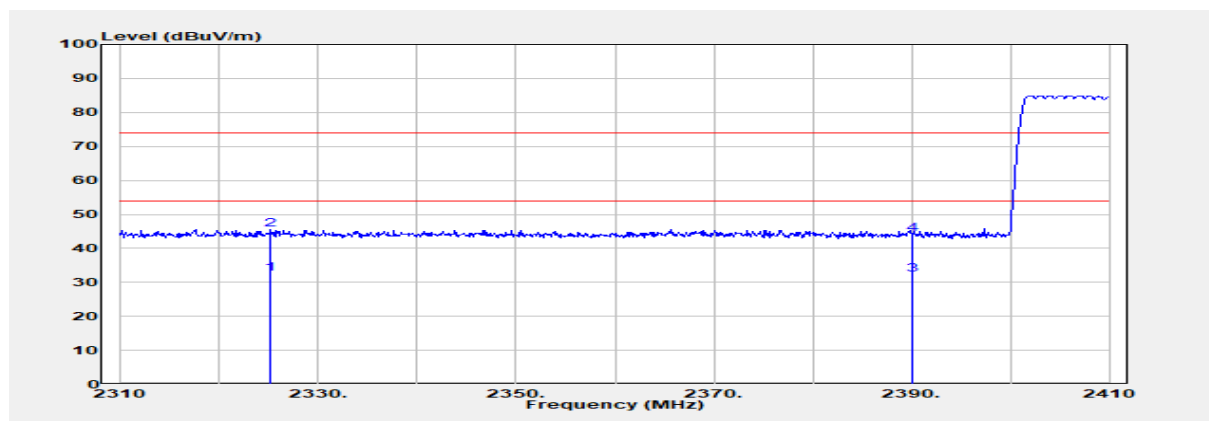
Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Jack Tseng

ANT :NO.5



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2325.200	Average	40.24	-7.66	32.58	54.00	-21.42
2325.200	Peak	53.20	-7.66	45.54	74.00	-28.46
2390.000	Average	40.22	-7.89	32.33	54.00	-21.67
2390.000	Peak	52.10	-7.89	44.22	74.00	-29.78

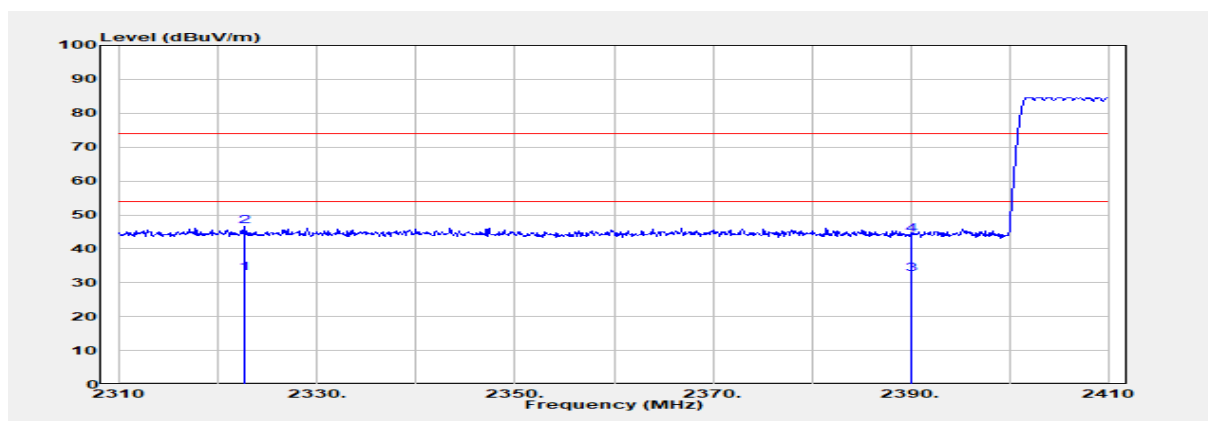
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Report Number :E2/2021/30016  
 Operation Mode :BT BR HOPPING  
 Test Frequency :2402 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E2 Plane  
 ANT :NO.5

Test Site :SAC D  
 Test Date :2021-08-23  
 Temp./Humi. :23.7/65  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2322.700	Average	40.33	-7.67	32.67	54.00	-21.33
2322.700	Peak	54.28	-7.67	46.62	74.00	-27.38
2390.000	Average	40.50	-7.89	32.61	54.00	-21.39
2390.000	Peak	51.95	-7.89	44.07	74.00	-29.93

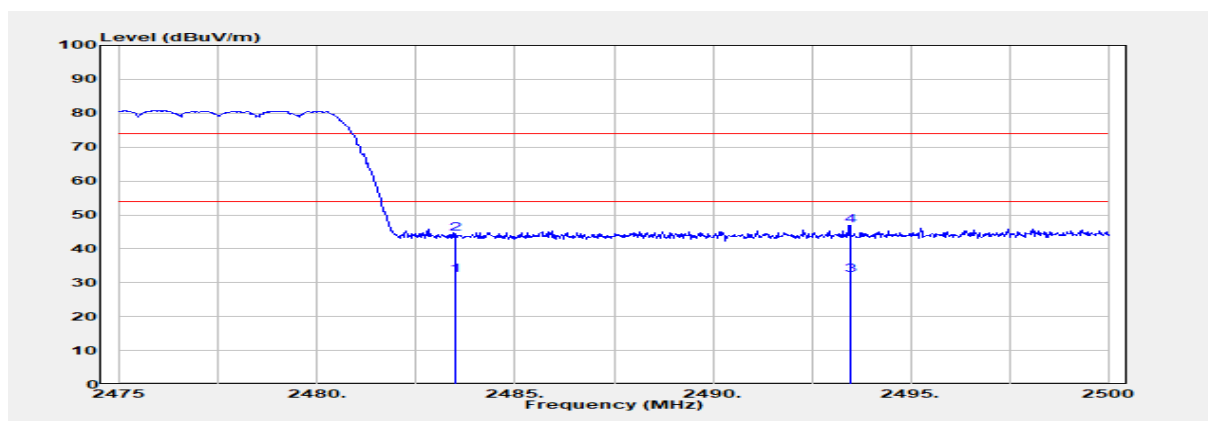
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Report Number :E2/2021/30016  
 Operation Mode :BT BR HOPPING  
 Test Frequency :2480 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E2 Plane  
 ANT :NO.5

Test Site :SAC D  
 Test Date :2021-08-23  
 Temp./Humi. :23.7/65  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	40.27	-8.15	32.12	54.00	-21.88
2483.500	Peak	52.56	-8.15	44.41	74.00	-29.59
2493.475	Average	40.28	-7.96	32.32	54.00	-21.68
2493.475	Peak	54.84	-7.96	46.89	74.00	-27.11

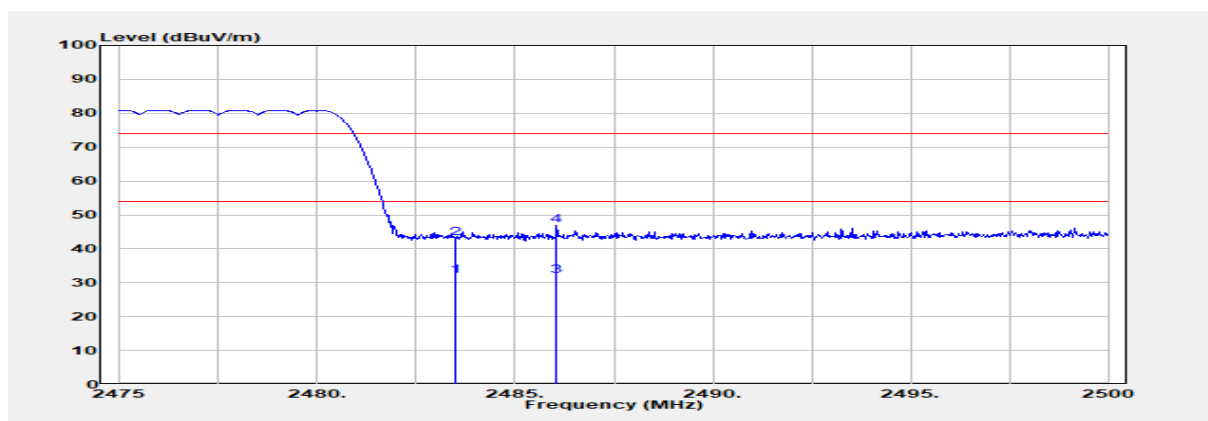
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Report Number :E2/2021/30016  
 Operation Mode :BT BR HOPPING  
 Test Frequency :2480 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E2 Plane  
 ANT :NO.5

Test Site :SAC D  
 Test Date :2021-08-23  
 Temp./Humi. :23.7/65  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	40.14	-8.15	31.99	54.00	-22.01
2483.500	Peak	51.25	-8.15	43.10	74.00	-30.90
2486.050	Average	40.15	-8.16	31.99	54.00	-22.01
2486.050	Peak	55.03	-8.16	46.87	74.00	-27.13

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## EDR hopping

Report Number :E2/2021/30016

Test Site :SAC D

Operation Mode :BT EDR HOPPING

Test Date :2021-08-23

Test Frequency :2402 MHz

Temp./Humi. :23.7/65

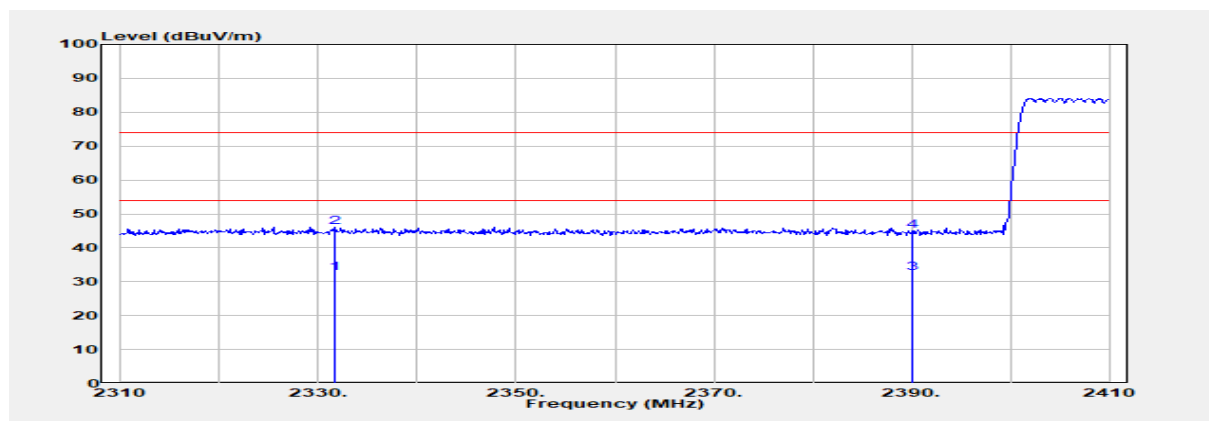
Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Jack Tseng

ANT :NO.5



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2331.600	Average	40.29	-7.63	32.66	54.00	-21.34
2331.600	Peak	53.81	-7.63	46.18	74.00	-27.82
2390.000	Average	40.28	-7.89	32.39	54.00	-21.61
2390.000	Peak	52.76	-7.89	44.87	74.00	-29.13

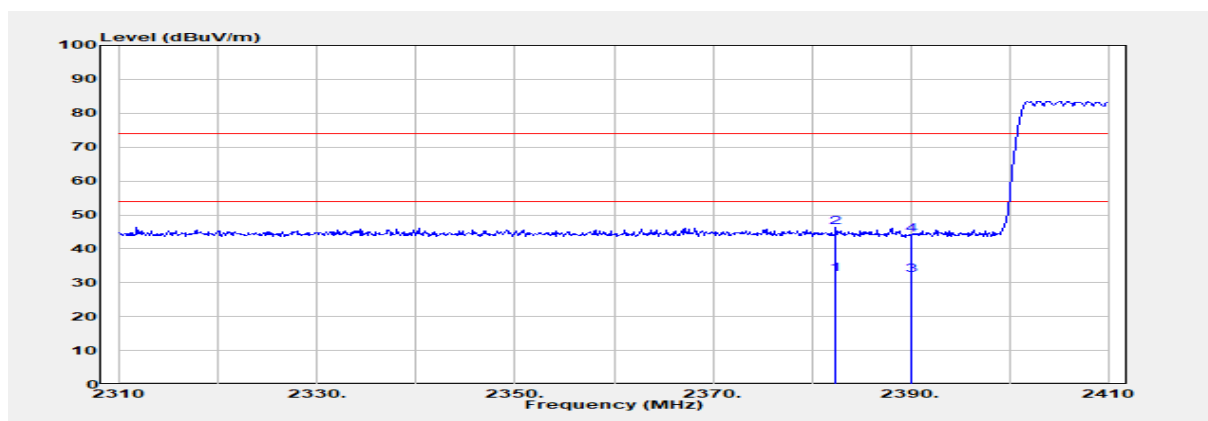
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Report Number :E2/2021/30016  
 Operation Mode :BT EDR HOPPING  
 Test Frequency :2402 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E2 Plane  
 ANT :NO.5

Test Site :SAC D  
 Test Date :2021-08-23  
 Temp./Humi. :23.7/65  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2382.400	Average	40.13	-7.66	32.47	54.00	-21.53
2382.400	Peak	54.03	-7.66	46.38	74.00	-27.62
2390.000	Average	40.21	-7.89	32.32	54.00	-21.68
2390.000	Peak	52.06	-7.89	44.17	74.00	-29.83

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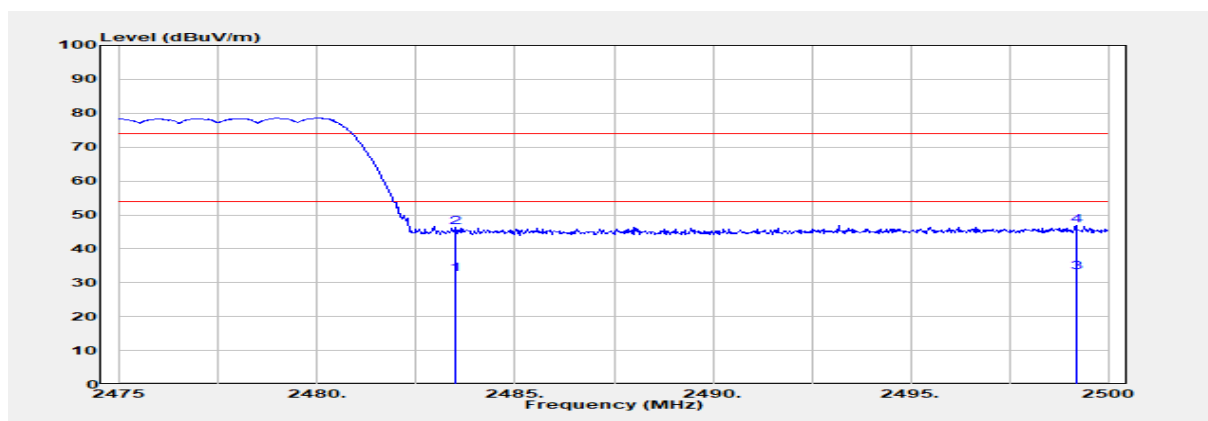
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Report Number :E2/2021/30016  
 Operation Mode :BT EDR HOPPING  
 Test Frequency :2480 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E2 Plane  
 ANT :NO.5

Test Site :SAC D  
 Test Date :2021-08-23  
 Temp./Humi. :23.7/65  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	40.54	-8.15	32.39	54.00	-21.61
2483.500	Peak	54.44	-8.15	46.28	74.00	-27.72
2499.200	Average	40.60	-7.61	32.99	54.00	-21.01
2499.200	Peak	54.51	-7.61	46.90	74.00	-27.10

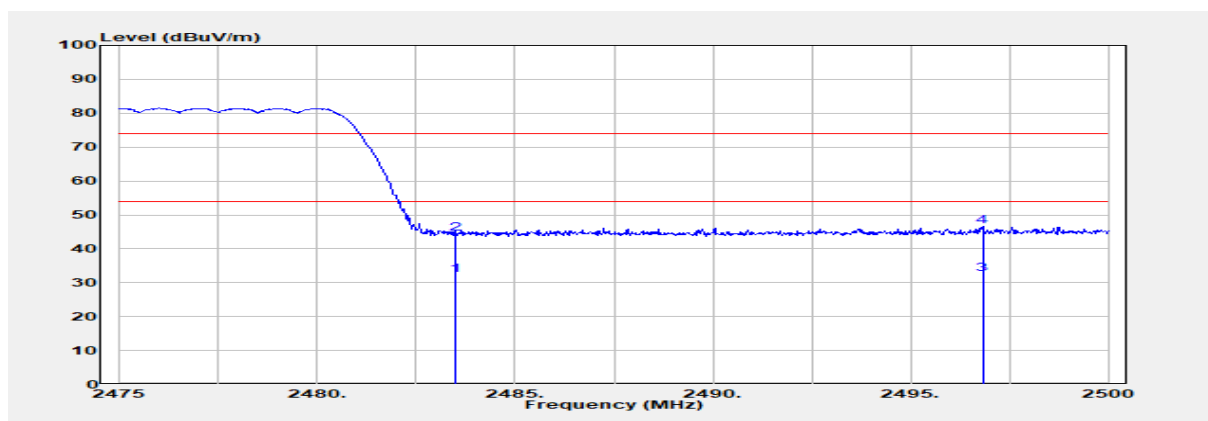
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Report Number :E2/2021/30016  
 Operation Mode :BT EDR HOPPING  
 Test Frequency :2480 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E2 Plane  
 ANT :NO.5

Test Site :SAC D  
 Test Date :2021-08-23  
 Temp./Humi. :23.7/65  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	40.37	-8.15	32.21	54.00	-21.79
2483.500	Peak	52.51	-8.15	44.35	74.00	-29.65
2496.825	Average	40.21	-7.76	32.45	54.00	-21.55
2496.825	Peak	54.29	-7.76	46.54	74.00	-27.46

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## BR non-hopping

Report Number :E2/2021/30016

Test Site :SAC D

Operation Mode :BT BR

Test Date :2021-08-23

Test Frequency :2402 MHz

Temp./Humi. :23.7/65

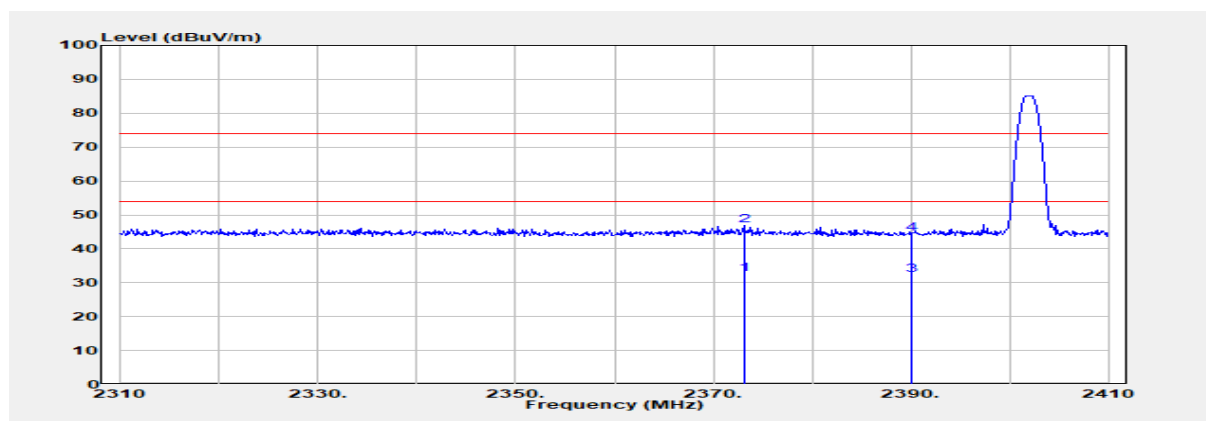
Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Jack Tseng

ANT :NO.5



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2373.100	Average	39.99	-7.60	32.39	54.00	-21.61
2373.100	Peak	54.53	-7.60	46.93	74.00	-27.07
2390.000	Average	40.03	-7.89	32.14	54.00	-21.86
2390.000	Peak	52.30	-7.89	44.41	74.00	-29.59

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Report Number :E2/2021/30016

Test Site :SAC D

Operation Mode :BT BR

Test Date :2021-08-23

Test Frequency :2402 MHz

Temp./Humi. :23.7/65

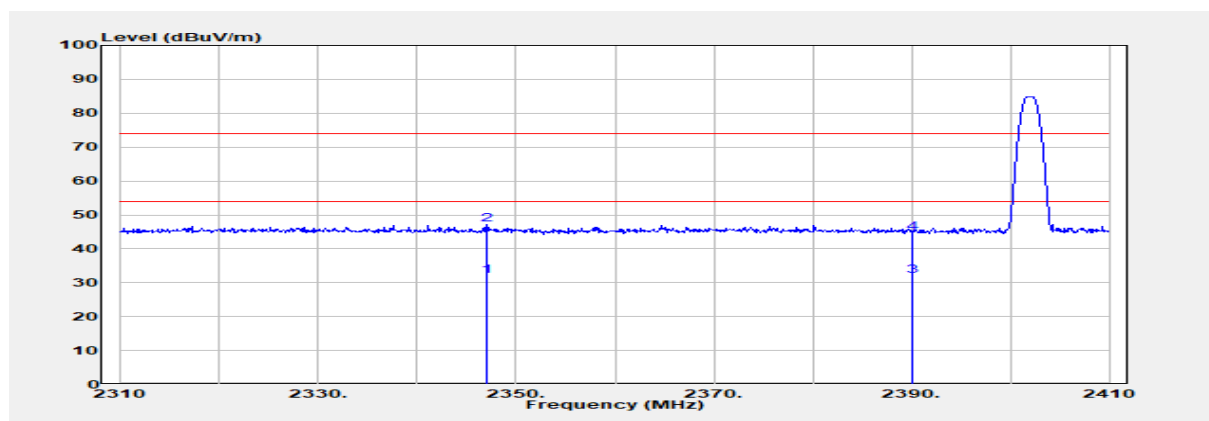
Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Jack Tseng

ANT :NO.5



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2347.000	Average	39.78	-7.70	32.08	54.00	-21.92
2347.000	Peak	54.85	-7.70	47.15	74.00	-26.85
2390.000	Average	39.78	-7.89	31.89	54.00	-22.11
2390.000	Peak	52.58	-7.89	44.69	74.00	-29.31

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Report Number :E2/2021/30016

Test Site :SAC D

Operation Mode :BT BR

Test Date :2021-08-23

Test Frequency :2480 MHz

Temp./Humi. :23.7/65

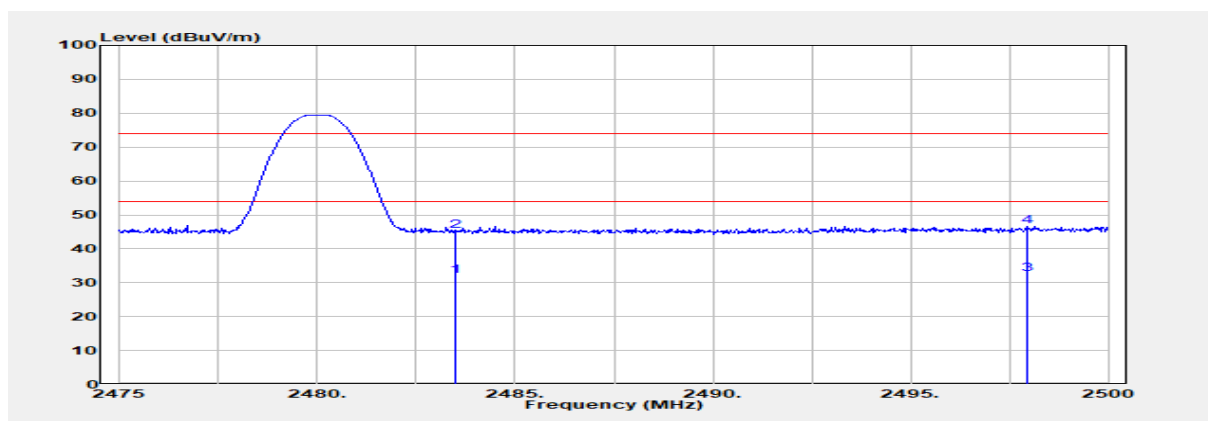
Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Jack Tseng

ANT :NO.5



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	40.15	-8.15	32.00	54.00	-22.00
2483.500	Peak	53.42	-8.15	45.27	74.00	-28.73
2497.950	Average	40.15	-7.69	32.47	54.00	-21.53
2497.950	Peak	54.36	-7.69	46.67	74.00	-27.33

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Report Number :E2/2021/30016

Test Site :SAC D

Operation Mode :BT BR

Test Date :2021-08-23

Test Frequency :2480 MHz

Temp./Humi. :23.7/65

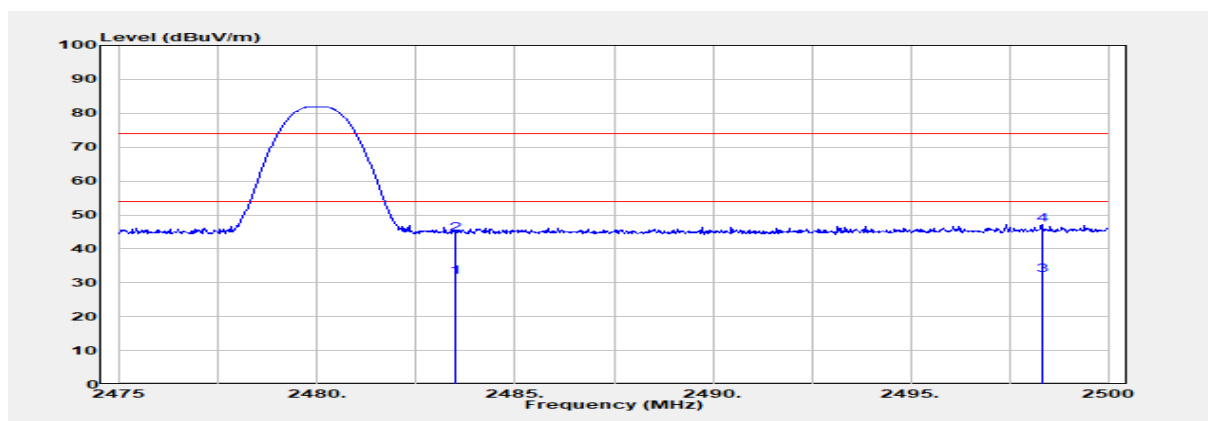
Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Jack Tseng

ANT :NO.5



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	39.86	-8.15	31.70	54.00	-22.30
2483.500	Peak	52.62	-8.15	44.46	74.00	-29.54
2498.325	Average	39.80	-7.66	32.13	54.00	-21.87
2498.325	Peak	54.78	-7.66	47.12	74.00	-26.88

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## EDR non-hopping

Report Number :E2/2021/30016

Test Site :SAC D

Operation Mode :BT EDR

Test Date :2021-08-23

Test Frequency :2402 MHz

Temp./Humi. :23.7/65

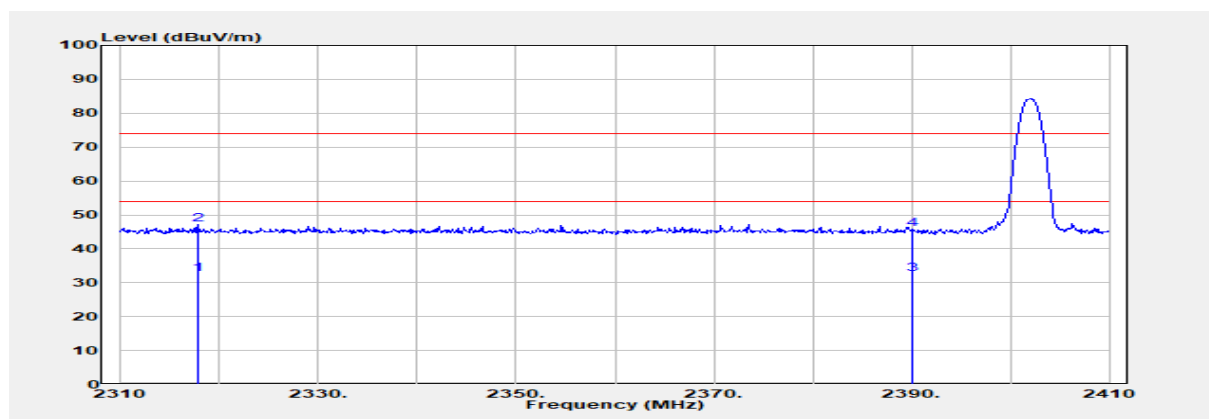
Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Jack Tseng

ANT :NO.5



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2317.800	Average	40.26	-7.70	32.56	54.00	-21.44
2317.800	Peak	54.85	-7.70	47.15	74.00	-26.85
2390.000	Average	40.44	-7.89	32.55	54.00	-21.45
2390.000	Peak	53.65	-7.89	45.76	74.00	-28.24

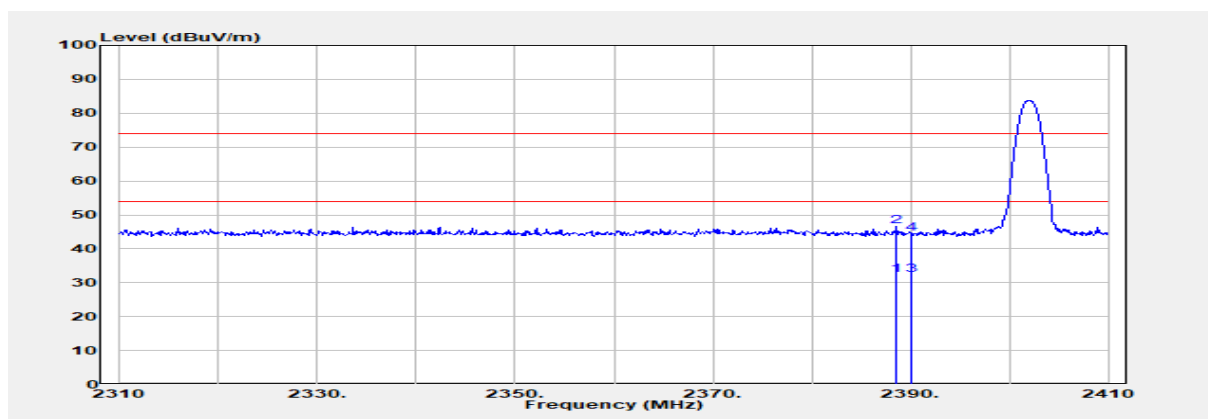
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Report Number :E2/2021/30016  
 Operation Mode :BT EDR  
 Test Frequency :2402 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E2 Plane  
 ANT :NO.5

Test Site :SAC D  
 Test Date :2021-08-23  
 Temp./Humi. :23.7/65  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2388.600	Average	40.08	-7.85	32.23	54.00	-21.77
2388.600	Peak	54.41	-7.85	46.56	74.00	-27.44
2390.000	Average	40.17	-7.89	32.29	54.00	-21.71
2390.000	Peak	52.34	-7.89	44.45	74.00	-29.55

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Report Number :E2/2021/30016

Test Site :SAC D

Operation Mode :BT EDR

Test Date :2021-08-23

Test Frequency :2480 MHz

Temp./Humi. :23.7/65

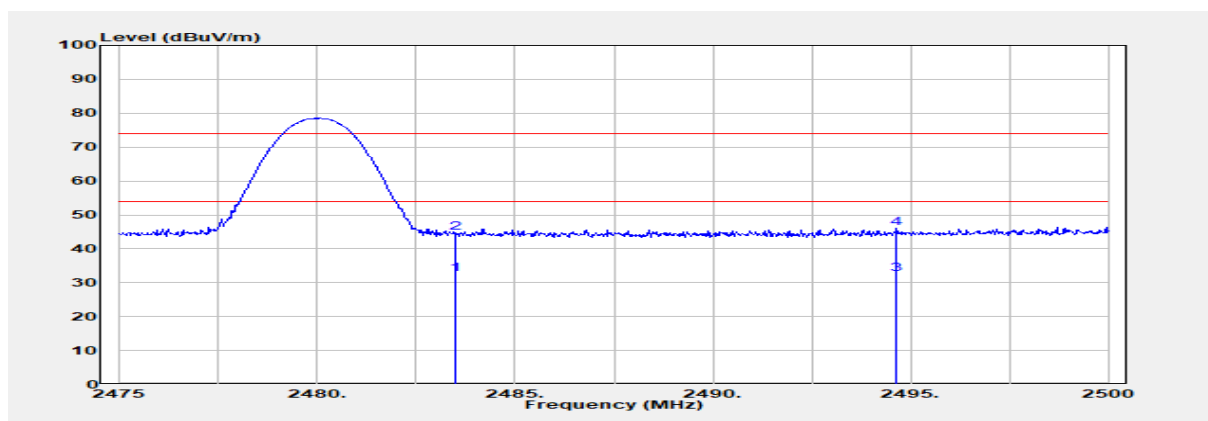
Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Jack Tseng

ANT :NO.5



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	40.76	-8.15	32.61	54.00	-21.39
2483.500	Peak	52.82	-8.15	44.67	74.00	-29.33
2494.650	Average	40.52	-7.89	32.63	54.00	-21.37
2494.650	Peak	54.09	-7.89	46.20	74.00	-27.80

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Report Number :E2/2021/30016

Test Site :SAC D

Operation Mode :BT EDR

Test Date :2021-08-23

Test Frequency :2480 MHz

Temp./Humi. :23.7/65

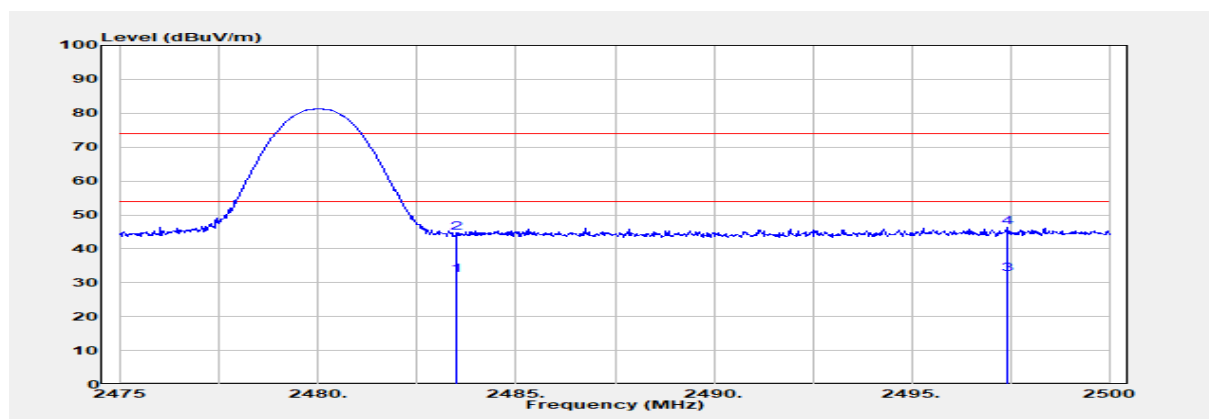
Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Jack Tseng

ANT :NO.5



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	40.49	-8.15	32.34	54.00	-21.66
2483.500	Peak	52.74	-8.15	44.59	74.00	-29.41
2497.425	Average	40.23	-7.72	32.51	54.00	-21.49
2497.425	Peak	53.93	-7.72	46.21	74.00	-27.79

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### 10.7.3 SANT-Dipole Ant No.4

#### BR hopping

Report Number :E2/2021/30016

Test Site :966 Chamber D

Operation Mode :BT BR HOPPING

Test Date :2021-07-19

Test Frequency :2402 MHz

Temp./Humi. :23.5/60

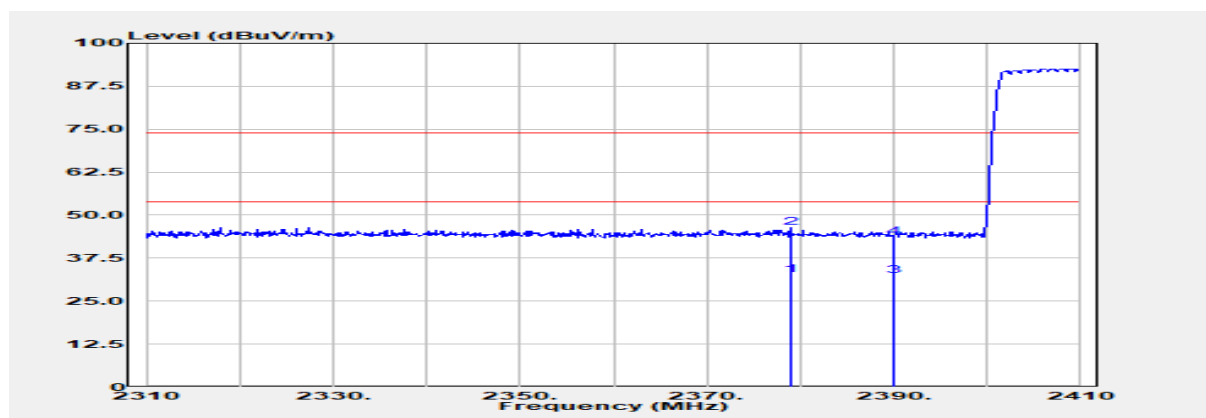
Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Jack Tseng

Ant :NO.4 Dipole



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2378.900	Average	40.22	-7.59	32.63	54.00	-21.37
2378.900	Peak	53.94	-7.59	46.35	74.00	-27.65
2390.000	Average	40.19	-7.89	32.30	54.00	-21.70
2390.000	Peak	51.45	-7.89	43.56	74.00	-30.44

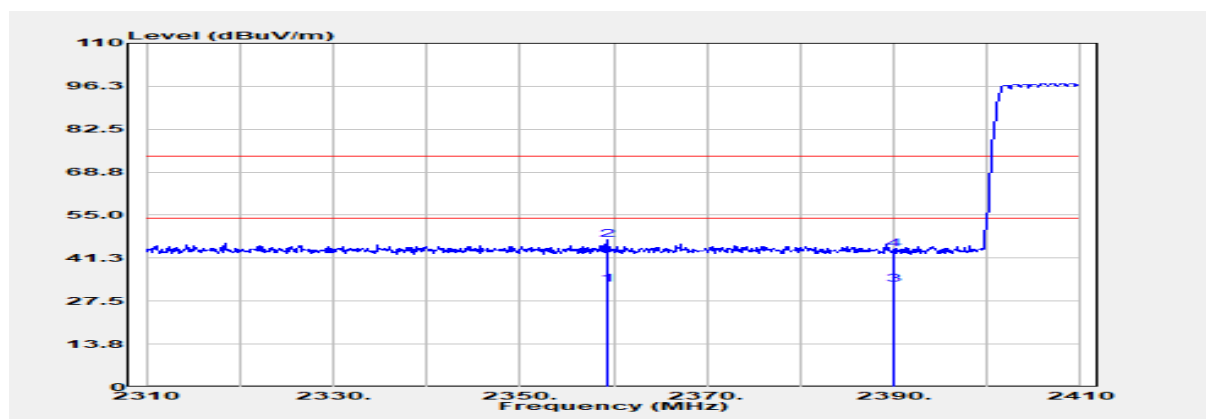
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Report Number :E2/2021/30016  
 Operation Mode :BT BR HOPPING  
 Test Frequency :2402 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E2 Plane  
 Ant :NO.4 Dipole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2359.300	Average	40.55	-7.85	32.70	54.00	-21.30
2359.300	Peak	55.00	-7.85	47.15	74.00	-26.85
2390.000	Average	40.58	-7.89	32.69	54.00	-21.31
2390.000	Peak	51.93	-7.89	44.04	74.00	-29.96

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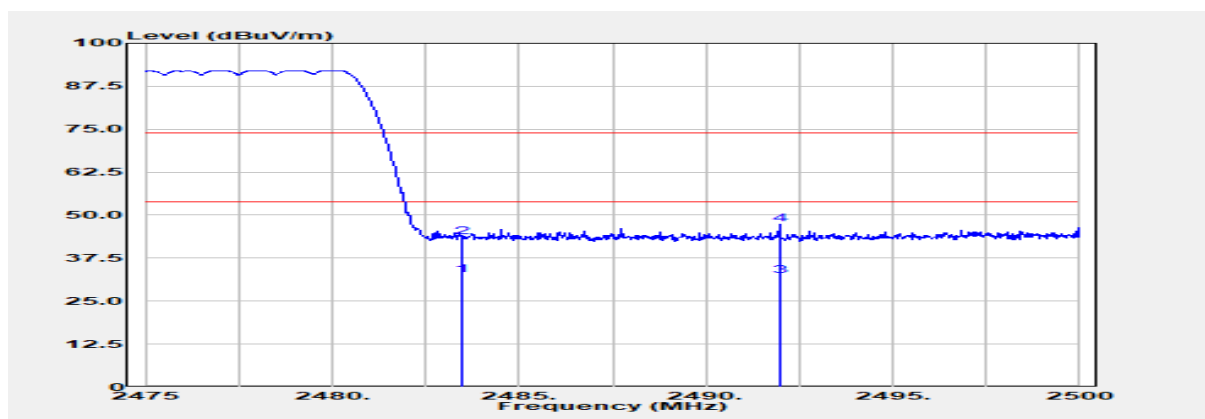
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Report Number :E2/2021/30016  
 Operation Mode :BT BR HOPPING  
 Test Frequency :2480 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E2 Plane  
 Ant :NO.4 Dipole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	40.84	-8.15	32.69	54.00	-21.31
2483.500	Peak	51.85	-8.15	43.70	74.00	-30.30
2491.975	Average	40.28	-8.05	32.23	54.00	-21.77
2491.975	Peak	55.50	-8.05	47.45	74.00	-26.55

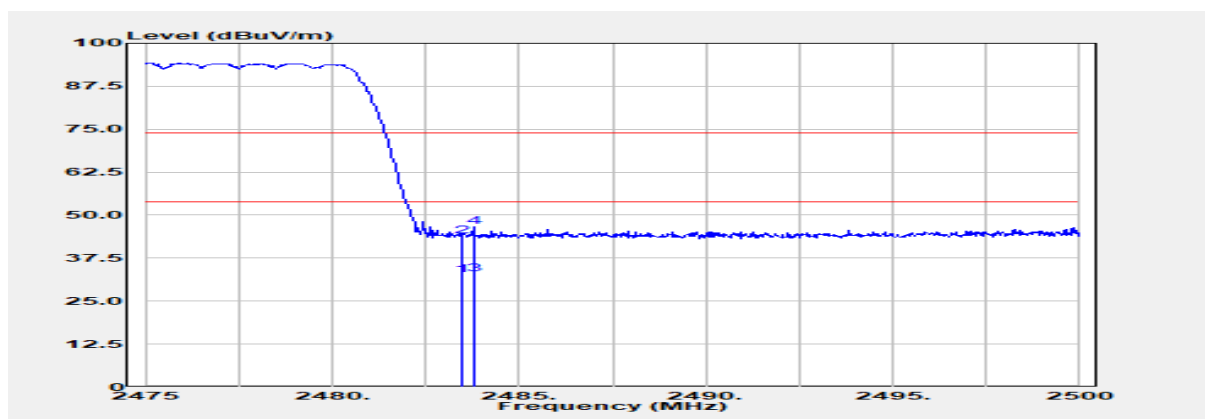
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Report Number :E2/2021/30016  
 Operation Mode :BT BR HOPPING  
 Test Frequency :2480 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E2 Plane  
 Ant :NO.4 Dipole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	40.83	-8.15	32.68	54.00	-21.32
2483.500	Peak	51.98	-8.15	43.83	74.00	-30.17
2483.800	Average	41.06	-8.15	32.90	54.00	-21.10
2483.800	Peak	54.82	-8.15	46.67	74.00	-27.33

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## EDR hopping

Report Number :E2/2021/30016

Test Site :966 Chamber D

Operation Mode :BT EDR HOPPING

Test Date :2021-07-19

Test Frequency :2402 MHz

Temp./Humi. :23.5/60

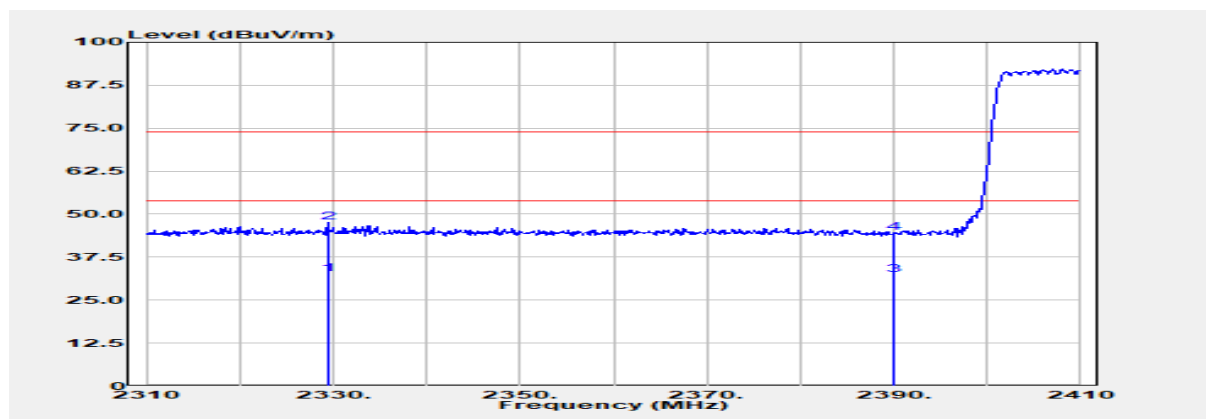
Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Jack Tseng

Ant :NO.4 Dipole



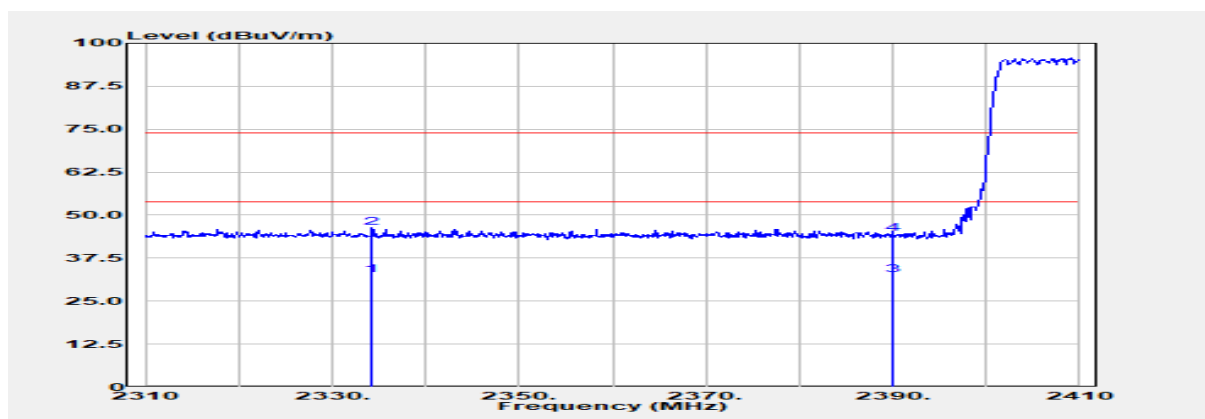
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2329.400	Average	40.24	-7.64	32.60	54.00	-21.40
2329.400	Peak	55.14	-7.64	47.50	74.00	-26.50
2390.000	Average	40.28	-7.89	32.39	54.00	-21.61
2390.000	Peak	52.53	-7.89	44.64	74.00	-29.36

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Report Number	:E2/2021/30016	Test Site	:966 Chamber D
Operation Mode	:BT EDR HOPPING	Test Date	:2021-07-19
Test Frequency	:2402 MHz	Temp./Humi.	:23.5/60
Test Mode	:BE CH LOW	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Tseng
Ant	:NO.4 Dipole		



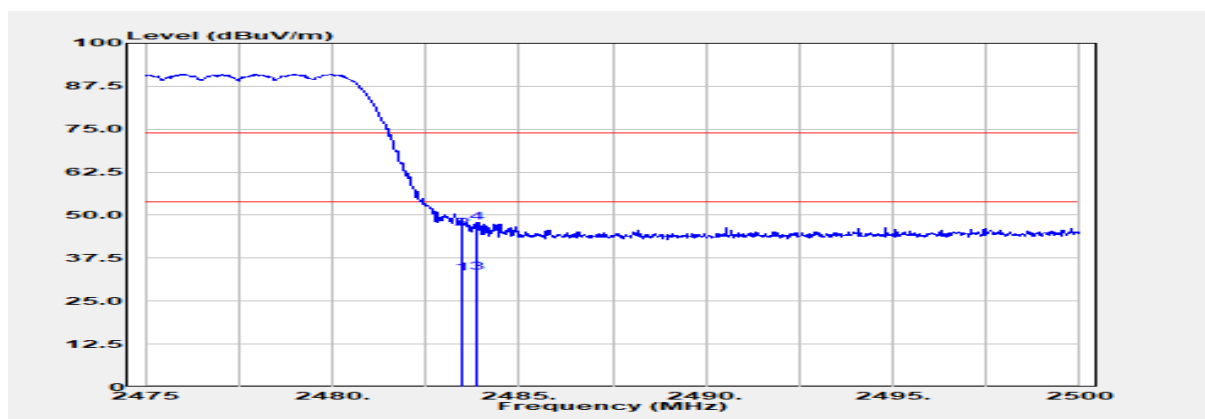
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2334.300	Average	40.24	-7.63	32.61	54.00	-21.39
2334.300	Peak	54.02	-7.63	46.39	74.00	-27.61
2390.000	Average	40.45	-7.89	32.56	54.00	-21.44
2390.000	Peak	52.52	-7.89	44.64	74.00	-29.36

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Report Number	:E2/2021/30016	Test Site	:966 Chamber D
Operation Mode	:BT EDR HOPPING	Test Date	:2021-07-19
Test Frequency	:2480 MHz	Temp./Humi.	:23.5/60
Test Mode	:BE CH HIGH	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Tseng
Ant	:NO.4 Dipole		



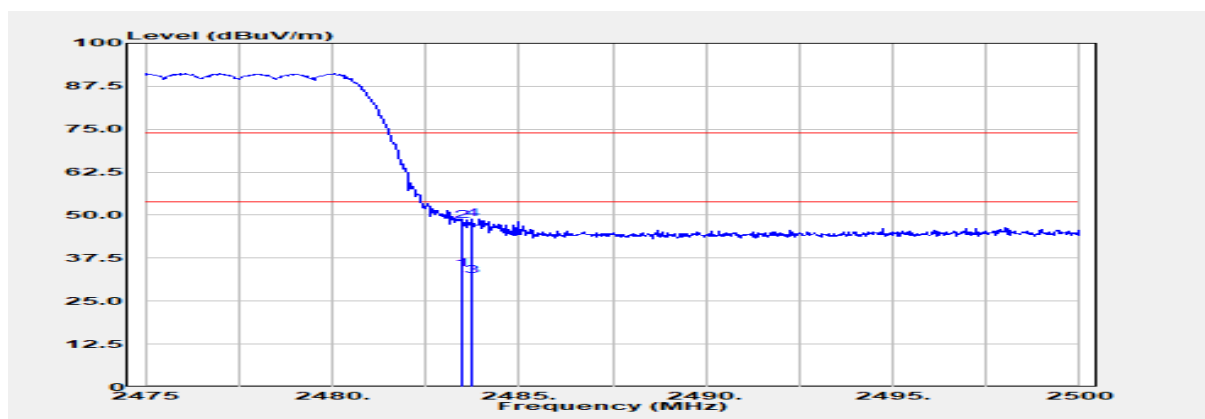
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	41.24	-8.15	33.09	54.00	-20.91
2483.500	Peak	54.35	-8.15	46.20	74.00	-27.80
2483.850	Average	41.38	-8.15	33.22	54.00	-20.78
2483.850	Peak	56.13	-8.15	47.98	74.00	-26.02

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Report Number	:E2/2021/30016	Test Site	:966 Chamber D
Operation Mode	:BT EDR HOPPING	Test Date	:2021-07-19
Test Frequency	:2480 MHz	Temp./Humi.	:23.5/60
Test Mode	:BE CH HIGH	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Tseng
Ant	:NO.4 Dipole		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	42.44	-8.15	34.29	54.00	-19.71
2483.500	Peak	56.56	-8.15	48.41	74.00	-25.59
2483.725	Average	40.38	-8.15	32.22	54.00	-21.78
2483.725	Peak	56.95	-8.15	48.80	74.00	-25.20

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## BR non-hopping

Report Number :E2/2021/30016

Test Site :966 Chamber D

Operation Mode :BT BR

Test Date :2021-07-19

Test Frequency :2402 MHz

Temp./Humi. :23.5/60

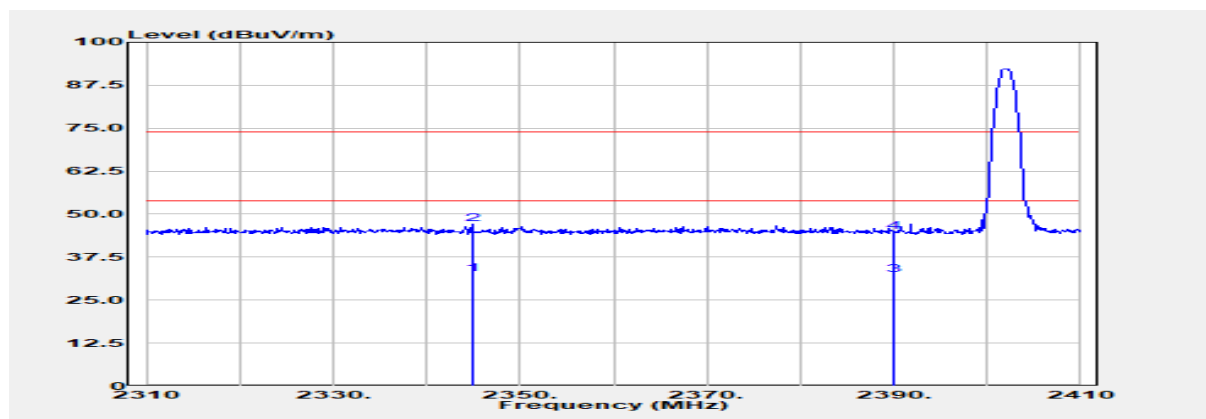
Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Jack Tseng

Ant :NO.4 Dipole



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2344.900	Average	40.25	-7.67	32.58	54.00	-21.42
2344.900	Peak	54.74	-7.67	47.06	74.00	-26.94
2390.000	Average	40.24	-7.89	32.36	54.00	-21.64
2390.000	Peak	52.85	-7.89	44.96	74.00	-29.04

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Report Number :E2/2021/30016

Test Site :966 Chamber D

Operation Mode :BT BR

Test Date :2021-07-19

Test Frequency :2402 MHz

Temp./Humi. :23.5/60

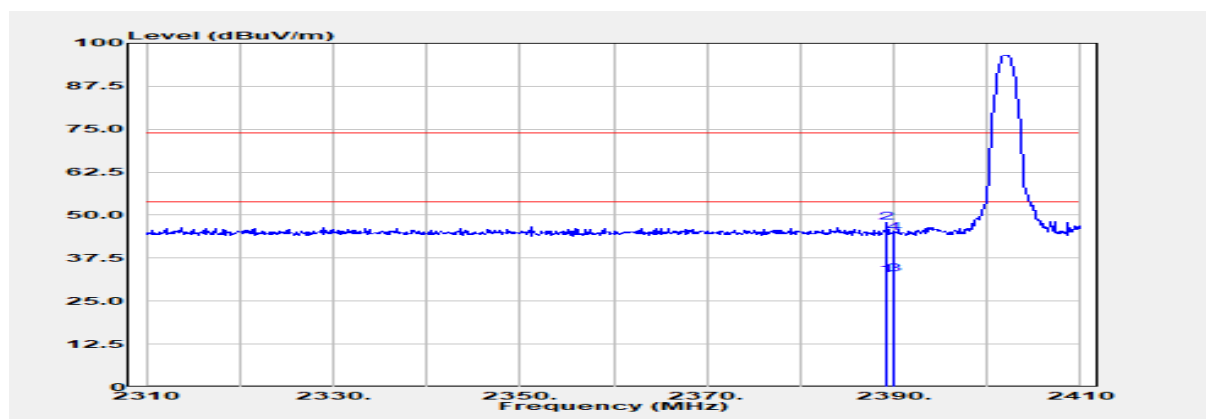
Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Jack Tseng

Ant :NO.4 Dipole



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2389.300	Average	40.53	-7.87	32.67	54.00	-21.33
2389.300	Peak	55.70	-7.87	47.84	74.00	-26.16
2390.000	Average	40.71	-7.89	32.82	54.00	-21.18
2390.000	Peak	52.62	-7.89	44.74	74.00	-29.26

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Report Number :E2/2021/30016

Test Site :966 Chamber D

Operation Mode :BT BR

Test Date :2021-07-19

Test Frequency :2480 MHz

Temp./Humi. :23.5/60

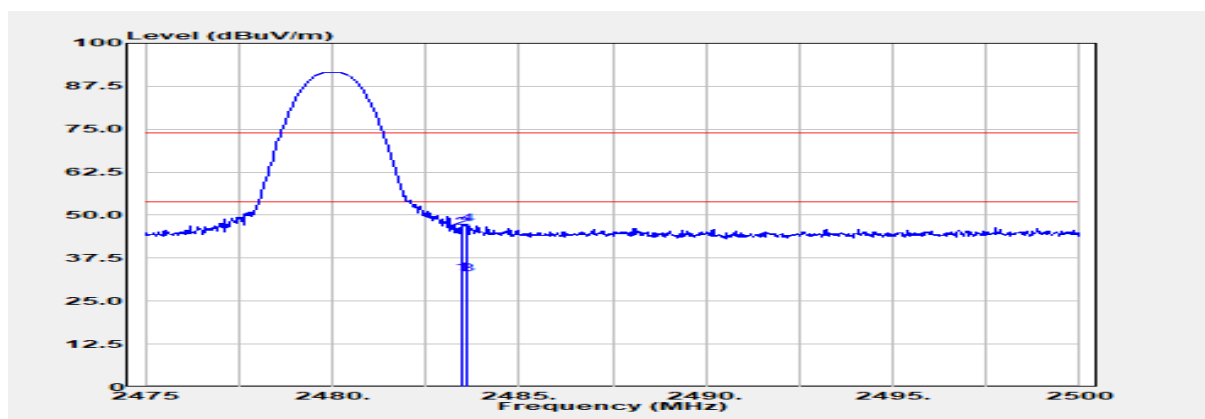
Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Jack Tseng

Ant :NO.4 Dipole



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	41.17	-8.15	33.02	54.00	-20.98
2483.500	Peak	54.64	-8.15	46.49	74.00	-27.51
2483.625	Average	40.91	-8.15	32.75	54.00	-21.25
2483.625	Peak	55.54	-8.15	47.38	74.00	-26.62

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Report Number :E2/2021/30016

Test Site :966 Chamber D

Operation Mode :BT BR

Test Date :2021-07-19

Test Frequency :2480 MHz

Temp./Humi. :23.5/60

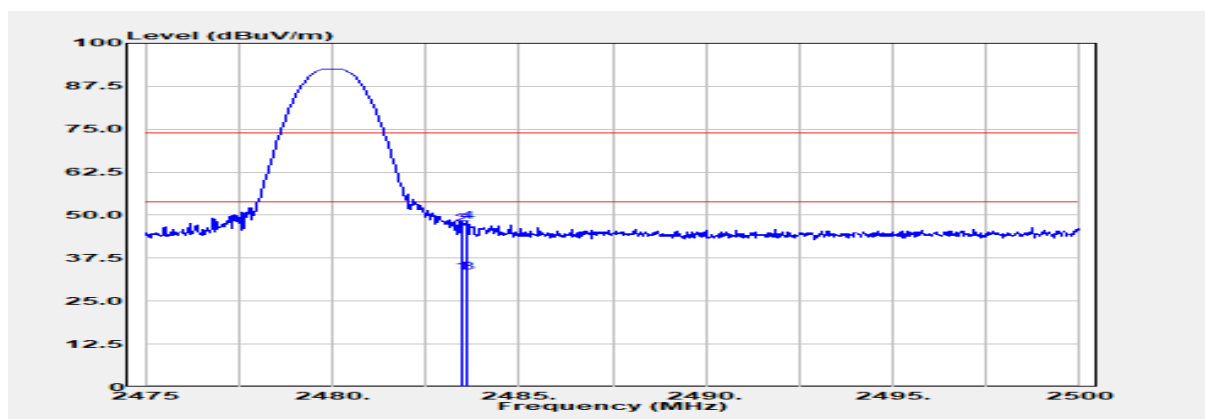
Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Jack Tseng

Ant :NO.4 Dipole



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	41.52	-8.15	33.37	54.00	-20.63
2483.500	Peak	55.46	-8.15	47.31	74.00	-26.69
2483.600	Average	41.57	-8.15	33.42	54.00	-20.58
2483.600	Peak	56.31	-8.15	48.16	74.00	-25.84

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## EDR non-hopping

Report Number :E2/2021/30016

Test Site :966 Chamber D

Operation Mode :BT EDR

Test Date :2021-07-19

Test Frequency :2402 MHz

Temp./Humi. :23.5/60

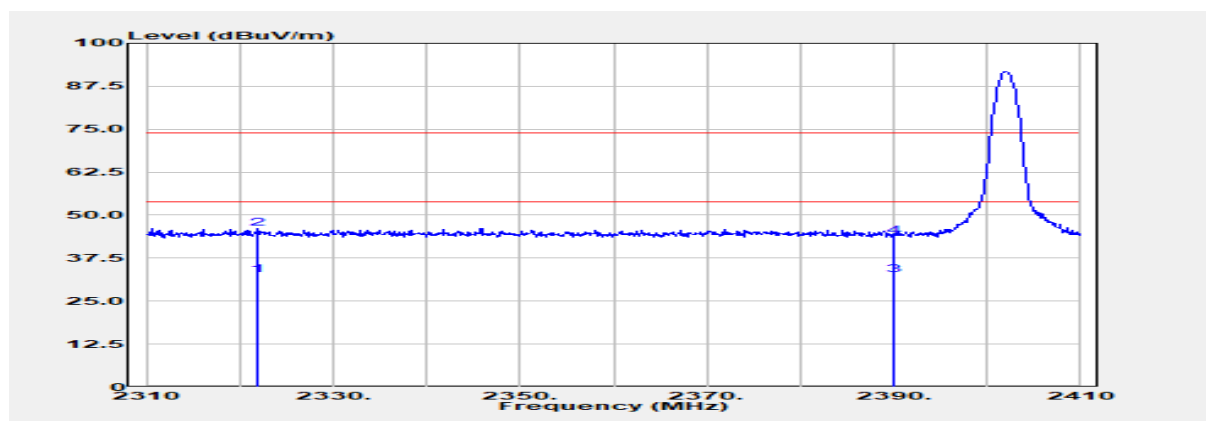
Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Jack Tseng

Ant :NO.4 Dipole



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2322.000	Average	40.22	-7.67	32.55	54.00	-21.45
2322.000	Peak	53.89	-7.67	46.22	74.00	-27.78
2390.000	Average	40.40	-7.89	32.51	54.00	-21.49
2390.000	Peak	51.81	-7.89	43.92	74.00	-30.08

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Report Number :E2/2021/30016

Test Site :966 Chamber D

Operation Mode :BT EDR

Test Date :2021-07-19

Test Frequency :2402 MHz

Temp./Humi. :23.5/60

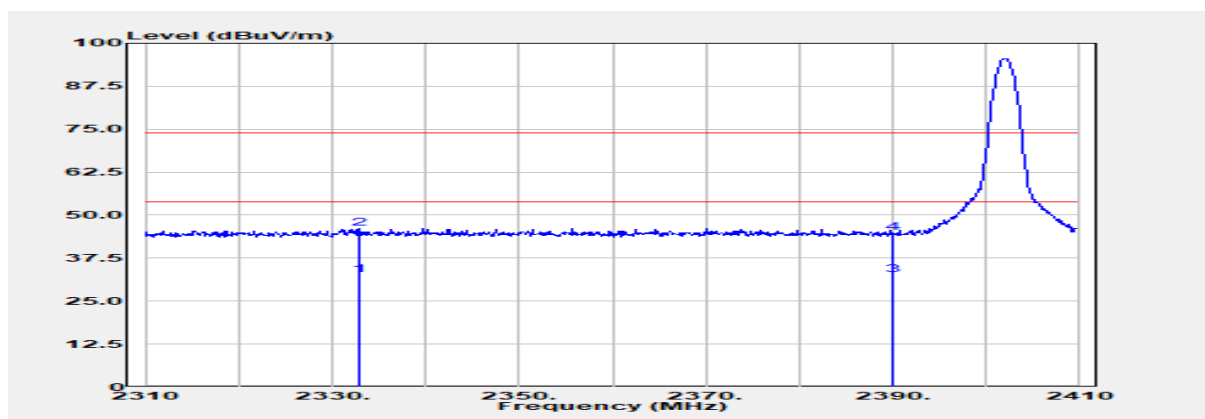
Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Jack Tseng

Ant :NO.4 Dipole



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2333.000	Average	40.28	-7.63	32.65	54.00	-21.35
2333.000	Peak	53.74	-7.63	46.11	74.00	-27.89
2390.000	Average	40.44	-7.89	32.55	54.00	-21.45
2390.000	Peak	52.75	-7.89	44.86	74.00	-29.14

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Report Number :E2/2021/30016

Test Site :966 Chamber D

Operation Mode :BT EDR

Test Date :2021-07-19

Test Frequency :2480 MHz

Temp./Humi. :23.5/60

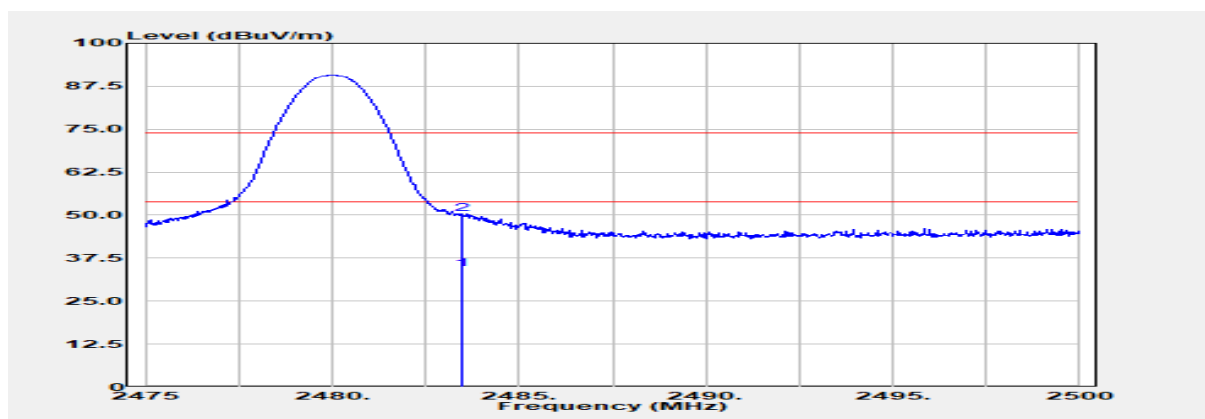
Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Jack Tseng

Ant :NO.4 Dipole



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	42.40	-8.15	34.25	54.00	-19.75
2483.500	Peak	58.62	-8.15	50.47	74.00	-23.53

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Report Number :E2/2021/30016

Test Site :966 Chamber D

Operation Mode :BT EDR

Test Date :2021-07-19

Test Frequency :2480 MHz

Temp./Humi. :23.5/60

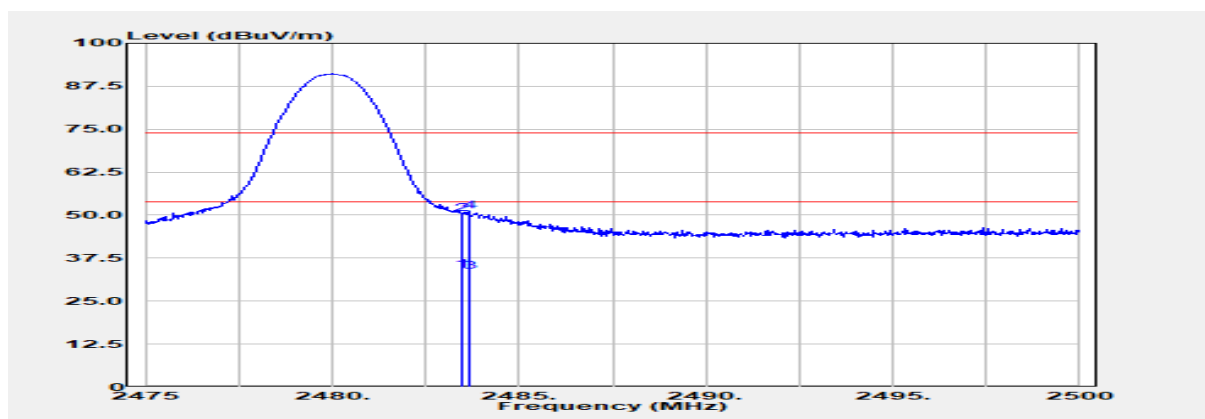
Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Jack Tseng

Ant :NO.4 Dipole



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	42.12	-8.15	33.97	54.00	-20.03
2483.500	Peak	58.42	-8.15	50.27	74.00	-23.73
2483.650	Average	41.75	-8.15	33.59	54.00	-20.41
2483.650	Peak	59.22	-8.15	51.06	74.00	-22.94

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# 10.7.4 SANT-Monopole Ant No.7

## BR hopping

Report Number :E2/2021/30016

Test Site :966 Chamber D

Operation Mode :BT BR HOPPING

Test Date :2021-07-19

Test Frequency :2402 MHz

Temp./Humi. :23.5/60

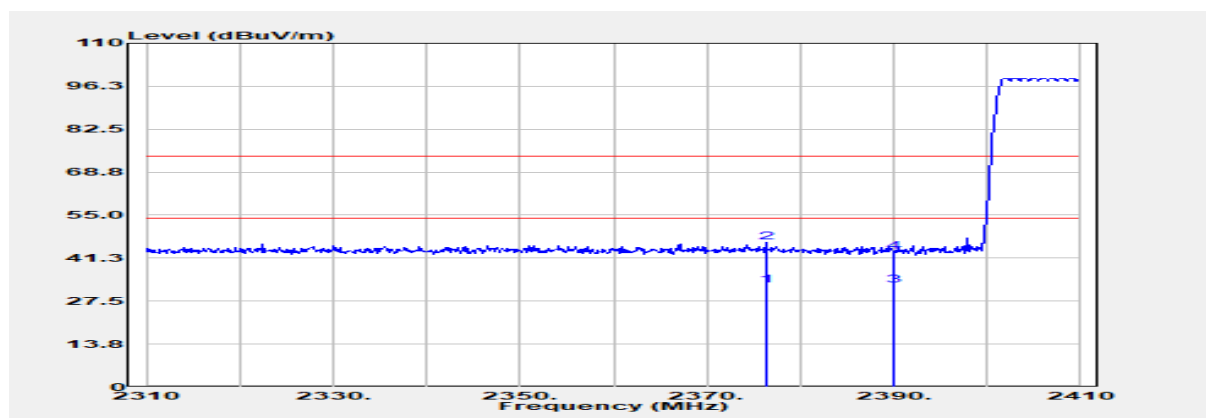
Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Jack Tseng

Ant :NO.7 Monopole



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2376.300	Average	40.20	-7.59	32.60	54.00	-21.40
2376.300	Peak	53.86	-7.59	46.27	74.00	-27.73
2390.000	Average	40.39	-7.89	32.50	54.00	-21.50
2390.000	Peak	51.05	-7.89	43.16	74.00	-30.84

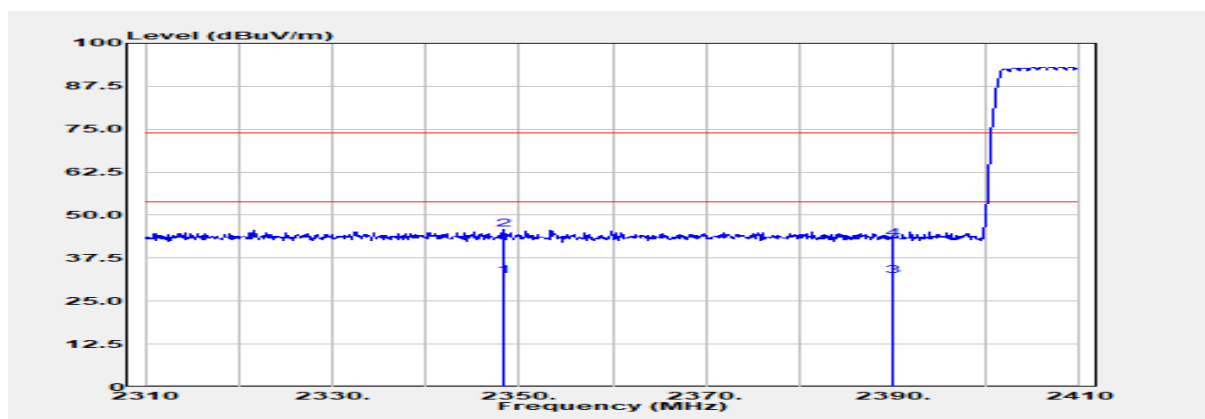
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Report Number :E2/2021/30016  
 Operation Mode :BT BR HOPPING  
 Test Frequency :2402 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E1 Plane  
 Ant :NO.7 Monopole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2348.300	Average	40.15	-7.72	32.43	54.00	-21.57
2348.300	Peak	53.47	-7.72	45.75	74.00	-28.25
2390.000	Average	40.17	-7.89	32.28	54.00	-21.72
2390.000	Peak	50.98	-7.89	43.09	74.00	-30.91

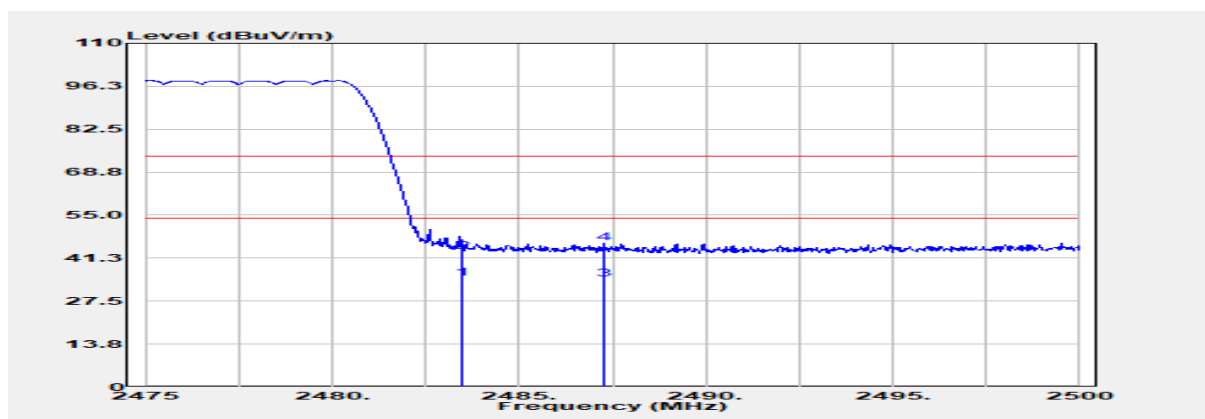
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Report Number :E2/2021/30016  
 Operation Mode :BT BR HOPPING  
 Test Frequency :2480 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E1 Plane  
 Ant :NO.7 Monopole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	42.83	-8.15	34.68	54.00	-19.32
2483.500	Peak	51.43	-8.15	43.28	74.00	-30.72
2487.250	Average	42.56	-8.16	34.40	54.00	-19.60
2487.250	Peak	54.17	-8.16	46.01	74.00	-27.99

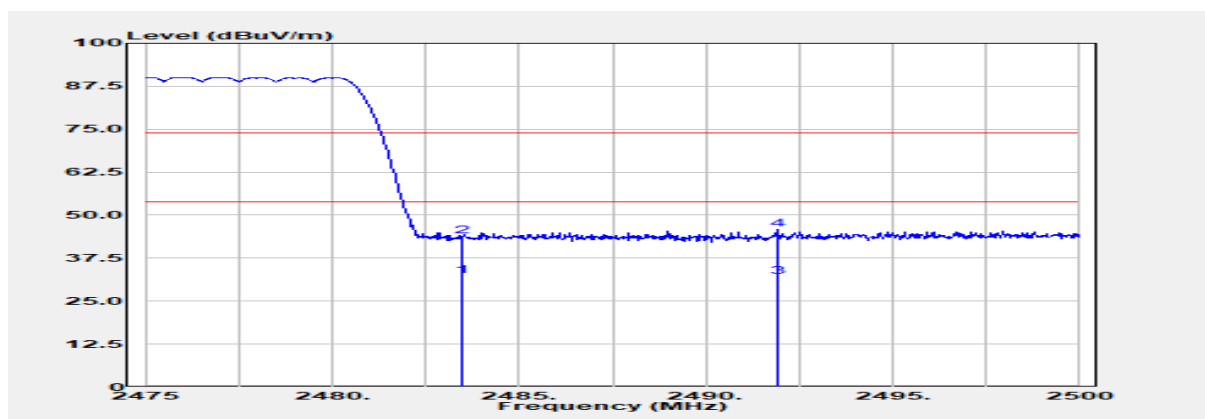
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Report Number :E2/2021/30016  
 Operation Mode :BT BR HOPPING  
 Test Frequency :2480 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E1 Plane  
 Ant :NO.7 Monopole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	40.51	-8.15	32.36	54.00	-21.64
2483.500	Peak	52.09	-8.15	43.94	74.00	-30.06
2491.900	Average	40.19	-8.05	32.14	54.00	-21.86
2491.900	Peak	53.84	-8.05	45.78	74.00	-28.22

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## EDR hopping

Report Number :E2/2021/30016

Test Site :966 Chamber D

Operation Mode :BT EDR HOPPING

Test Date :2021-07-19

Test Frequency :2402 MHz

Temp./Humi. :23.5/60

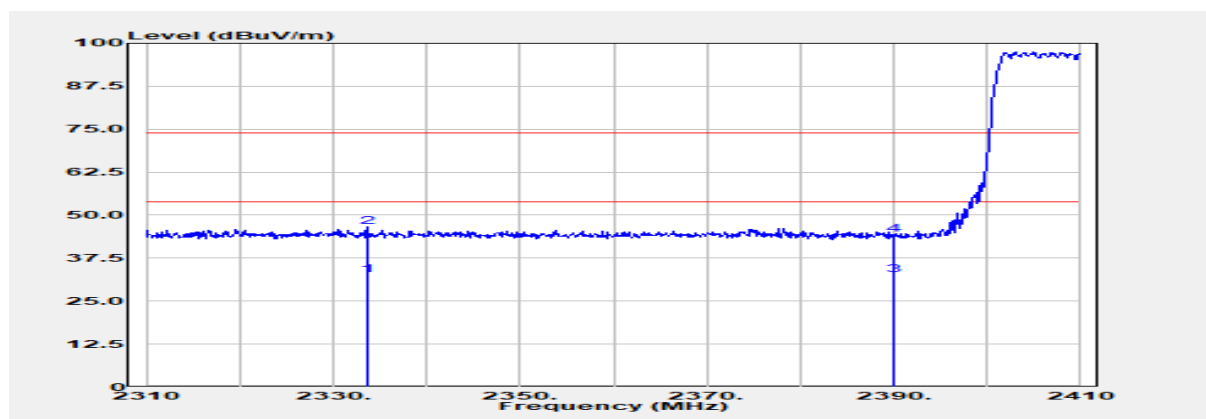
Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Jack Tseng

Ant :NO.7 Monopole



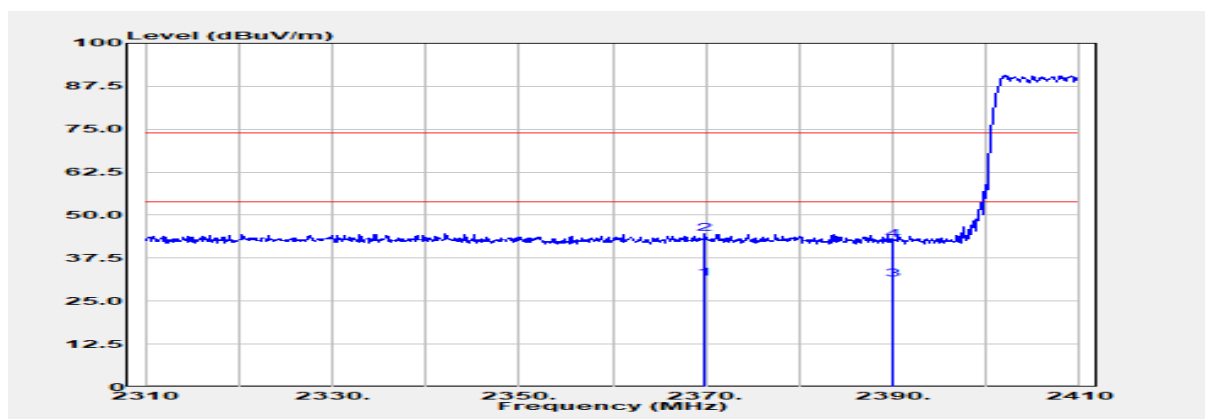
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2333.600	Average	40.33	-7.63	32.71	54.00	-21.29
2333.600	Peak	54.22	-7.63	46.59	74.00	-27.41
2390.000	Average	40.59	-7.89	32.70	54.00	-21.30
2390.000	Peak	52.14	-7.89	44.25	74.00	-29.75

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Report Number	:E2/2021/30016	Test Site	:966 Chamber D
Operation Mode	:BT EDR HOPPING	Test Date	:2021-07-19
Test Frequency	:2402 MHz	Temp./Humi.	:23.5/60
Test Mode	:BE CH LOW	Antenna Pol.	:Horizontal
EUT Pol	:E1 Plane	Engineer	:Jack Tseng
Ant	:NO.7 Monopole		



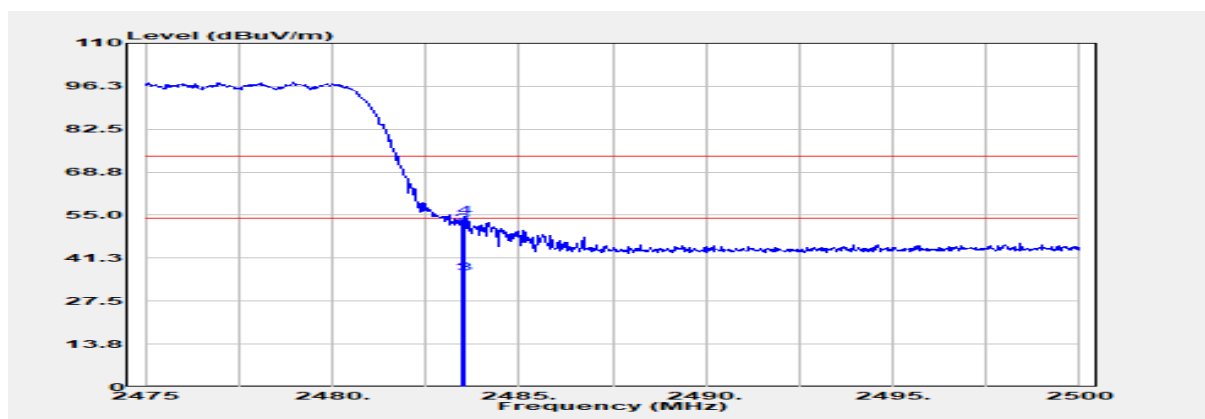
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2369.900	Average	39.23	-7.61	31.62	54.00	-22.38
2369.900	Peak	52.27	-7.61	44.65	74.00	-29.35
2390.000	Average	39.10	-7.89	31.21	54.00	-22.79
2390.000	Peak	50.69	-7.89	42.80	74.00	-31.20

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Report Number	:E2/2021/30016	Test Site	:966 Chamber D
Operation Mode	:BT EDR HOPPING	Test Date	:2021-07-19
Test Frequency	:2480 MHz	Temp./Humi.	:23.5/60
Test Mode	:BE CH HIGH	Antenna Pol.	:Vertical
EUT Pol	:E1 Plane	Engineer	:Jack Tseng
Ant	:NO.7 Monopole		



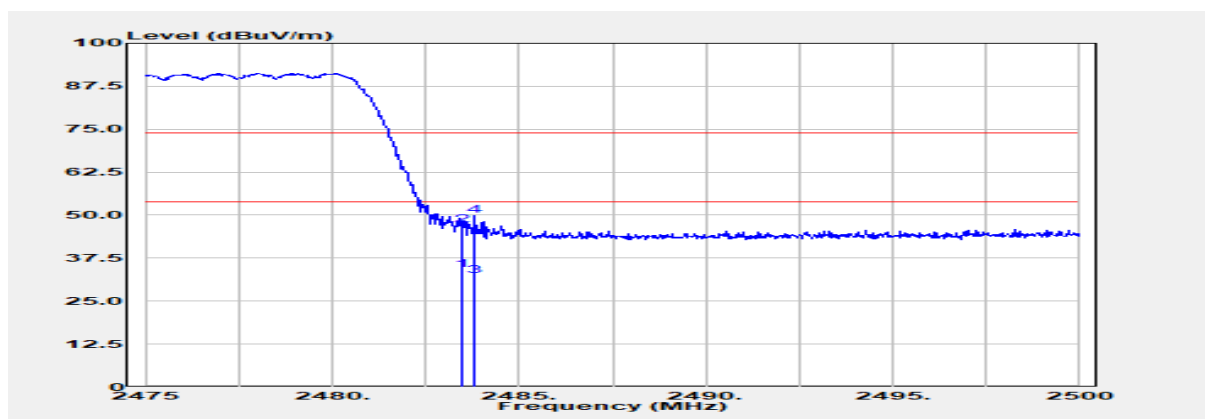
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	44.46	-8.15	36.30	54.00	-17.70
2483.500	Peak	60.18	-8.15	52.02	74.00	-21.98
2483.550	Average	44.60	-8.15	36.44	54.00	-17.56
2483.550	Peak	62.66	-8.15	54.51	74.00	-19.49

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Report Number	:E2/2021/30016	Test Site	:966 Chamber D
Operation Mode	:BT EDR HOPPING	Test Date	:2021-07-19
Test Frequency	:2480 MHz	Temp./Humi.	:23.5/60
Test Mode	:BE CH HIGH	Antenna Pol.	:Horizontal
EUT Pol	:E1 Plane	Engineer	:Jack Tseng
Ant	:NO.7 Monopole		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2483.500	Average	42.30	-8.15	34.15	54.00	-19.85
2483.500	Peak	55.30	-8.15	47.14	74.00	-26.86
2483.825	Average	40.58	-8.15	32.43	54.00	-21.57
2483.825	Peak	57.99	-8.15	49.84	74.00	-24.16

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## BR non-hopping

Report Number :E2/2021/30016

Test Site :966 Chamber D

Operation Mode :BT BR

Test Date :2021-07-19

Test Frequency :2402 MHz

Temp./Humi. :23.5/60

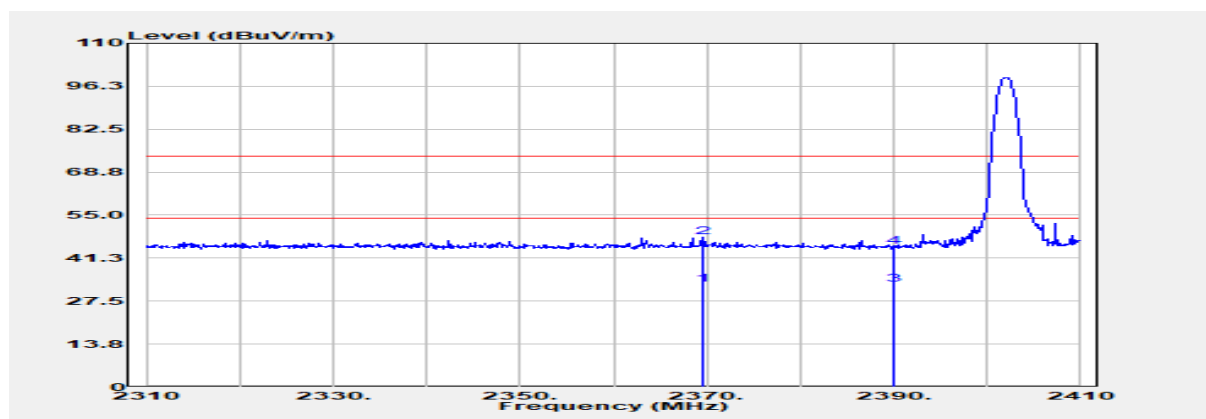
Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Jack Tseng

Ant :NO.7 Monopole



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2369.500	Average	40.30	-7.62	32.67	54.00	-21.33
2369.500	Peak	55.50	-7.62	47.88	74.00	-26.12
2390.000	Average	40.56	-7.89	32.68	54.00	-21.32
2390.000	Peak	52.80	-7.89	44.91	74.00	-29.09

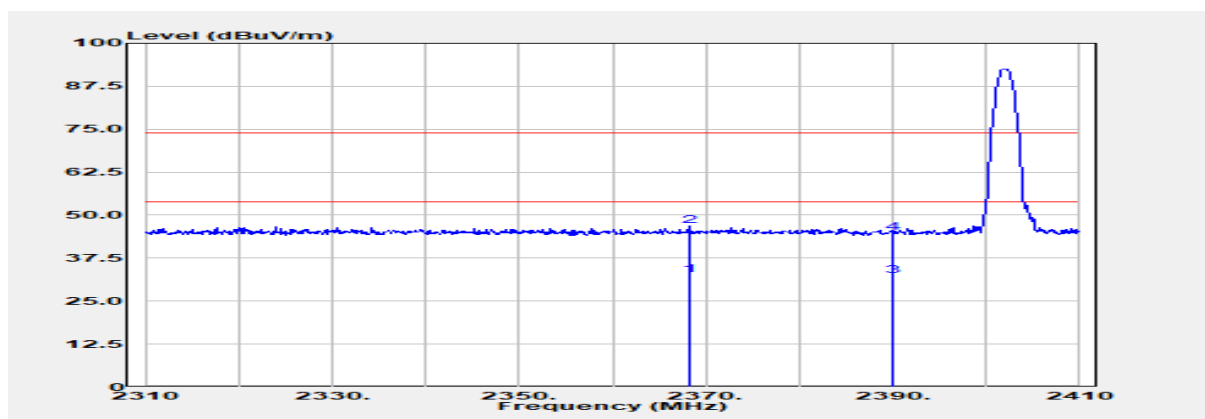
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Report Number :E2/2021/30016  
 Operation Mode :BT BR  
 Test Frequency :2402 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E1 Plane  
 Ant :NO.7 Monopole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2368.200	Average	40.24	-7.66	32.59	54.00	-21.42
2368.200	Peak	54.40	-7.66	46.75	74.00	-27.25
2390.000	Average	40.30	-7.89	32.41	54.00	-21.59
2390.000	Peak	52.75	-7.89	44.86	74.00	-29.14

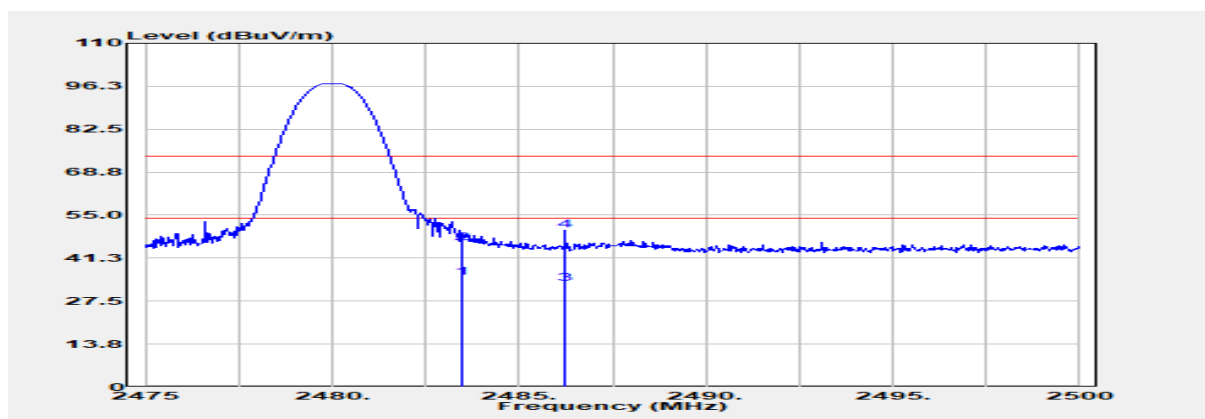
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Report Number :E2/2021/30016  
 Operation Mode :BT BR  
 Test Frequency :2480 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E1 Plane  
 Ant :NO.7 Monopole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	43.30	-8.15	35.15	54.00	-18.85
2483.500	Peak	54.10	-8.15	45.95	74.00	-28.05
2486.225	Average	41.21	-8.16	33.05	54.00	-20.95
2486.225	Peak	58.31	-8.16	50.15	74.00	-23.85

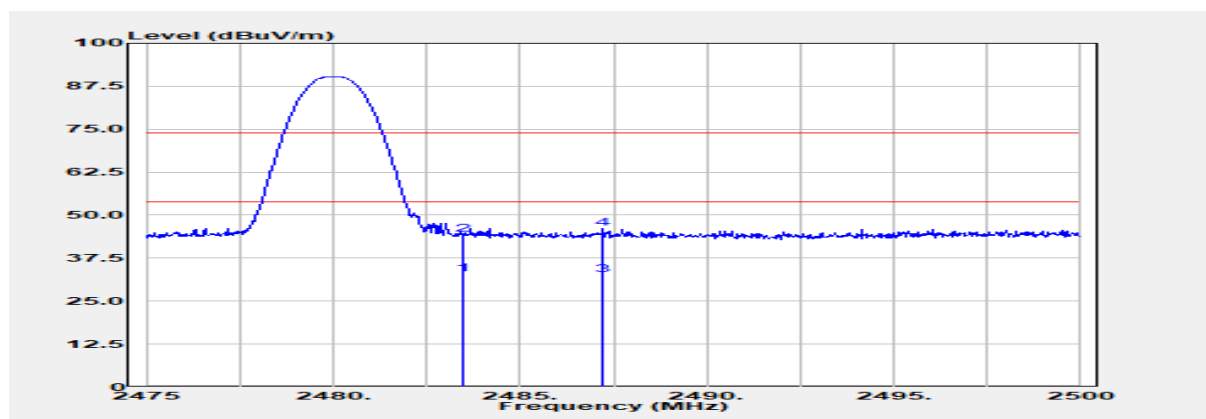
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Report Number :E2/2021/30016  
 Operation Mode :BT BR  
 Test Frequency :2480 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E1 Plane  
 Ant :NO.7 Monopole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	41.00	-8.15	32.85	54.00	-21.15
2483.500	Peak	52.56	-8.15	44.40	74.00	-29.60
2487.225	Average	40.72	-8.16	32.56	54.00	-21.44
2487.225	Peak	54.40	-8.16	46.24	74.00	-27.76

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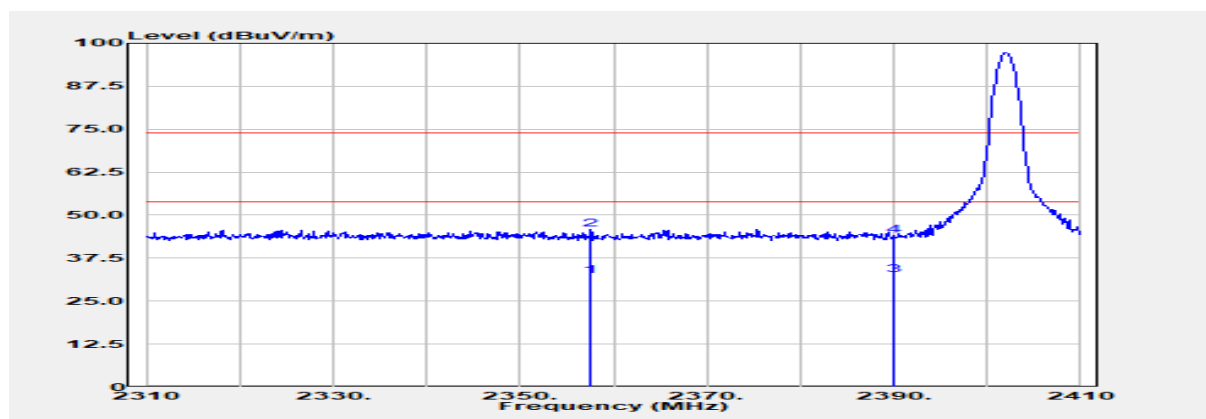
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## EDR non-hopping

Report Number :E2/2021/30016  
 Operation Mode :BT EDR  
 Test Frequency :2402 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E1 Plane  
 Ant :NO.7 Monopole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2357.600	Average	40.26	-7.83	32.43	54.00	-21.57
2357.600	Peak	53.71	-7.83	45.88	74.00	-28.12
2390.000	Average	40.51	-7.89	32.63	54.00	-21.37
2390.000	Peak	52.08	-7.89	44.19	74.00	-29.81

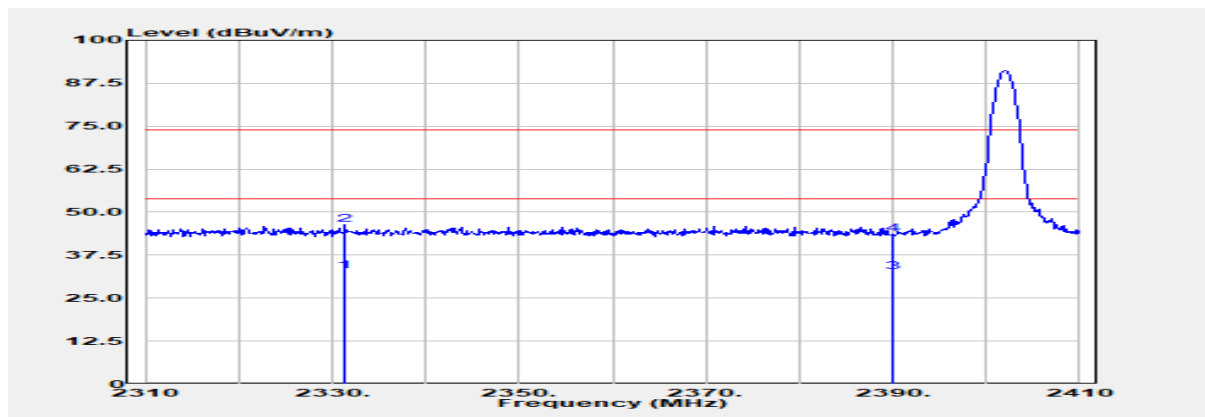
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Report Number :E2/2021/30016  
 Operation Mode :BT EDR  
 Test Frequency :2402 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E1 Plane  
 Ant :NO.7 Monopole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2331.300	Average	40.47	-7.63	32.83	54.00	-21.17
2331.300	Peak	53.93	-7.63	46.29	74.00	-27.71
2390.000	Average	40.40	-7.89	32.51	54.00	-21.49
2390.000	Peak	51.56	-7.89	43.67	74.00	-30.33

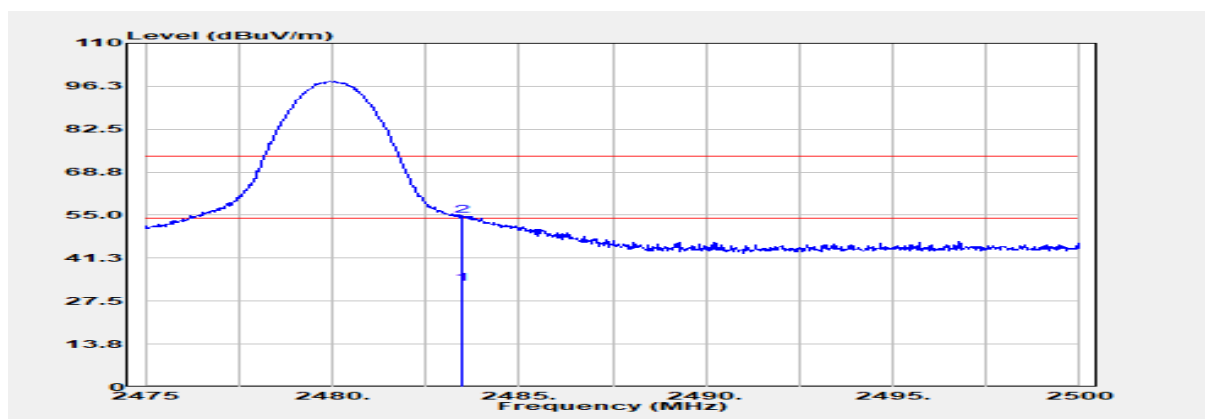
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Report Number :E2/2021/30016  
 Operation Mode :BT EDR  
 Test Frequency :2480 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E1 Plane  
 Ant :NO.7 Monopole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	41.26	-8.15	33.10	54.00	-20.90
2483.500	Peak	63.00	-8.15	54.85	74.00	-19.15

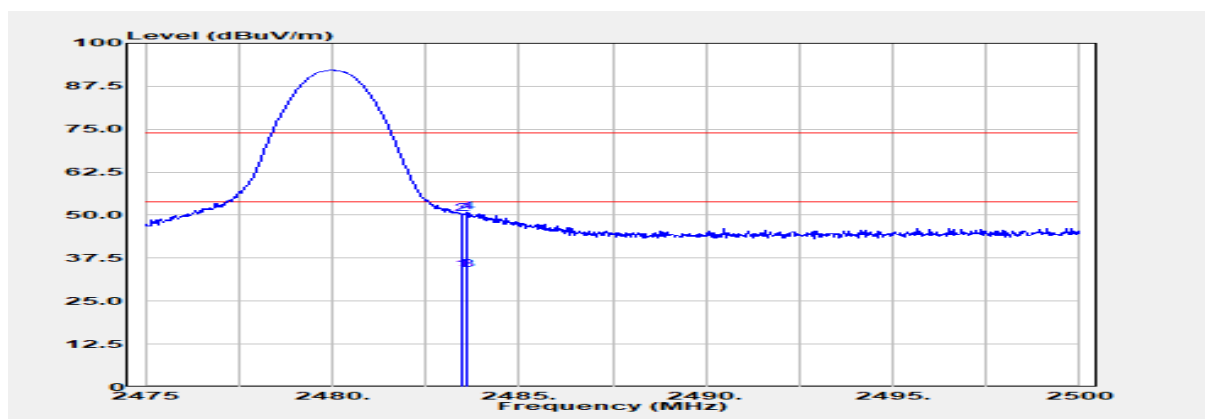
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Report Number :E2/2021/30016  
 Operation Mode :BT EDR  
 Test Frequency :2480 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E1 Plane  
 Ant :NO.7 Monopole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	42.13	-8.15	33.98	54.00	-20.02
2483.500	Peak	58.41	-8.15	50.26	74.00	-23.74
2483.575	Average	42.16	-8.15	34.00	54.00	-20.00
2483.575	Peak	58.94	-8.15	50.79	74.00	-23.21

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## 10.7.5 Radiated Spurious Emission form 30MHz to 1000MHz:

### 10.7.1 DANT-Dipole Ant No.5

Report Number :E2/2021/30016

Test Site : SAC D

Operation Mode :BT BR

Test Date :2021-09-09

Test Frequency :2441 MHz

Temp./Humi. :22.8/64

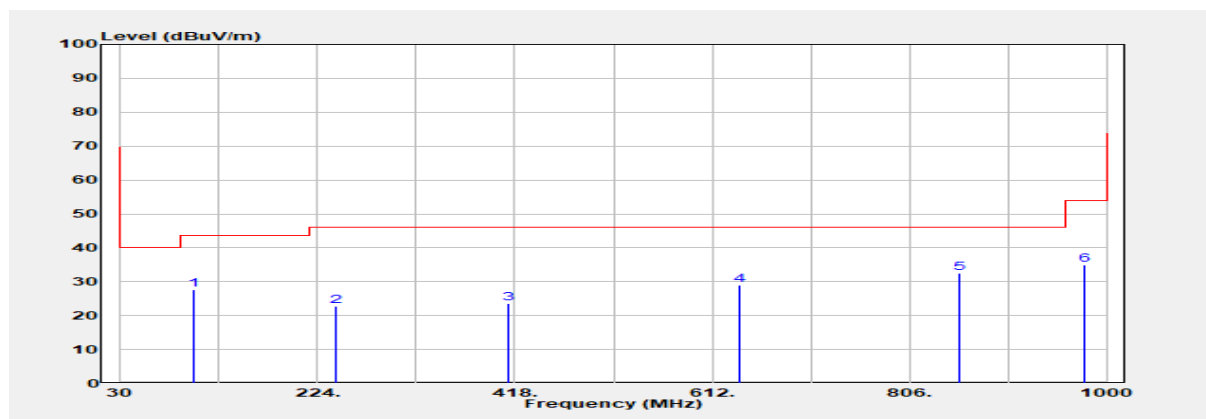
Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang

Ant : NO:5



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
101.780	Peak	49.48	-21.71	27.77	43.50	-15.73
241.460	Peak	40.94	-18.21	22.73	46.00	-23.27
411.210	Peak	36.92	-13.47	23.45	46.00	-22.55
639.160	Peak	37.00	-8.11	28.89	46.00	-17.11
855.470	Peak	38.15	-5.75	32.40	46.00	-13.60
977.690	Peak	39.45	-4.54	34.91	54.00	-19.09

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Report Number :E2/2021/30016

Test Site : SAC D

Operation Mode :BT BR

Test Date :2021-09-09

Test Frequency :2441 MHz

Temp./Humi. :22.8/64

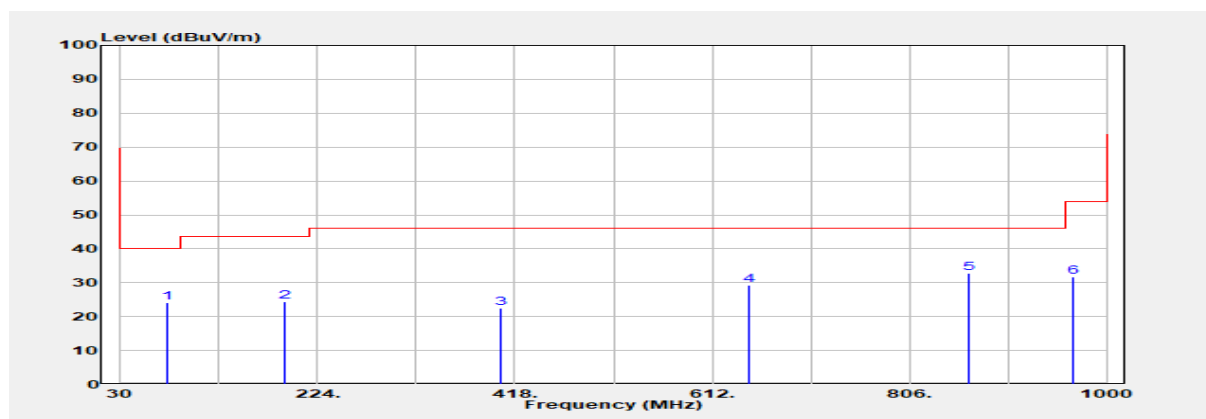
Test Mode :TX CH MID

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang

Ant : NO:5



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
75.590	Peak	44.66	-20.63	24.03	40.00	-15.97
191.020	Peak	43.89	-19.49	24.41	43.50	-19.09
403.450	Peak	36.31	-13.82	22.49	46.00	-23.51
647.890	Peak	37.92	-8.64	29.28	46.00	-16.72
865.170	Peak	39.12	-6.36	32.76	46.00	-13.24
967.020	Peak	36.19	-4.40	31.78	54.00	-22.22

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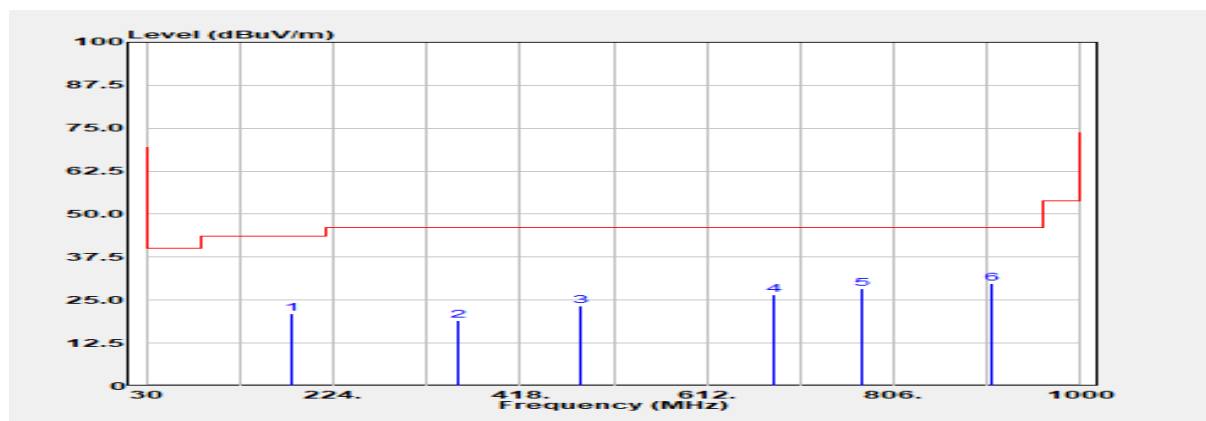
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### 10.7.2 SANT-Dipole Ant No.4

Report Number :E2/2021/30016  
Operation Mode :BT BR  
Test Frequency :2441 MHz  
Test Mode :TX CH MID  
EUT Pol :E2 Plane  
Ant :NO.4 Dipole

Test Site :966 Chamber D  
Test Date :2021-07-19  
Temp./Humi. :23.5/60  
Antenna Pol. :Vertical  
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
181.320	Peak	39.11	-18.09	21.02	43.50	-22.48
353.980	Peak	33.88	-14.81	19.07	46.00	-26.93
480.080	Peak	34.92	-11.60	23.32	46.00	-22.68
681.840	Peak	34.65	-8.07	26.58	46.00	-19.42
773.990	Peak	34.82	-6.59	28.23	46.00	-17.77
908.820	Peak	35.67	-5.92	29.75	46.00	-16.25

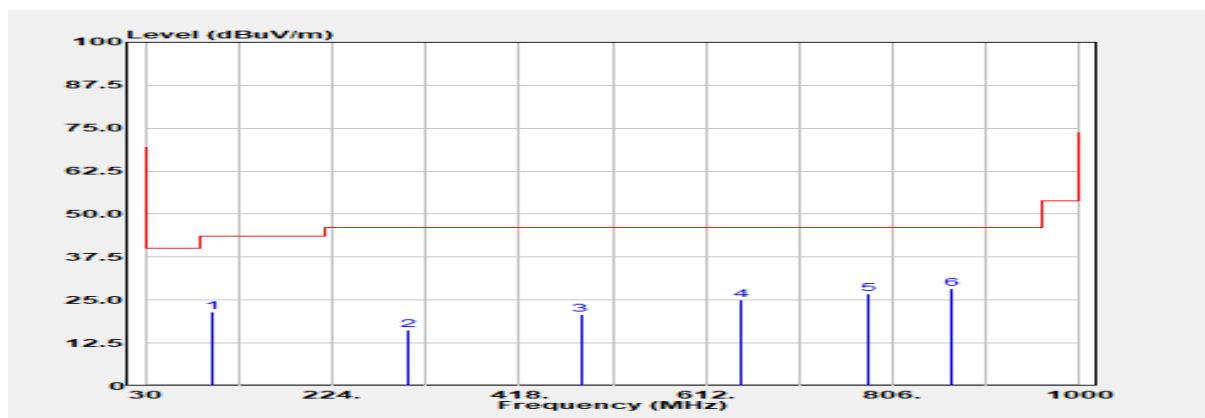
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Report Number :E2/2021/30016  
 Operation Mode :BT BR  
 Test Frequency :2441 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E2 Plane  
 Ant :NO.4 Dipole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
98.870	Peak	43.82	-22.39	21.44	43.50	-22.06
303.540	Peak	32.43	-16.03	16.40	46.00	-29.60
482.020	Peak	32.67	-11.83	20.84	46.00	-25.16
647.890	Peak	33.81	-8.64	25.18	46.00	-20.82
781.750	Peak	34.04	-7.15	26.89	46.00	-19.11
867.110	Peak	34.76	-6.48	28.28	46.00	-17.72

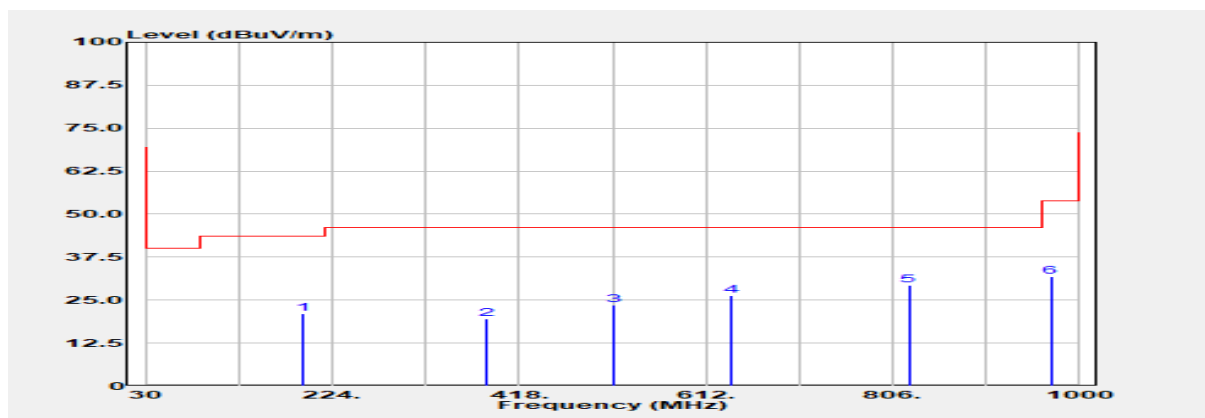
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Report Number :E2/2021/30016  
 Operation Mode :BT EDR  
 Test Frequency :2441 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E2 Plane  
 Ant :NO.4 Dipole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
192.960	Peak	40.57	-19.58	20.99	43.50	-22.51
384.050	Peak	33.83	-14.21	19.62	46.00	-26.38
516.940	Peak	34.58	-11.04	23.54	46.00	-22.46
637.220	Peak	34.76	-8.34	26.42	46.00	-19.58
822.490	Peak	36.08	-6.74	29.34	46.00	-16.66
969.930	Peak	35.65	-3.85	31.80	54.00	-22.20

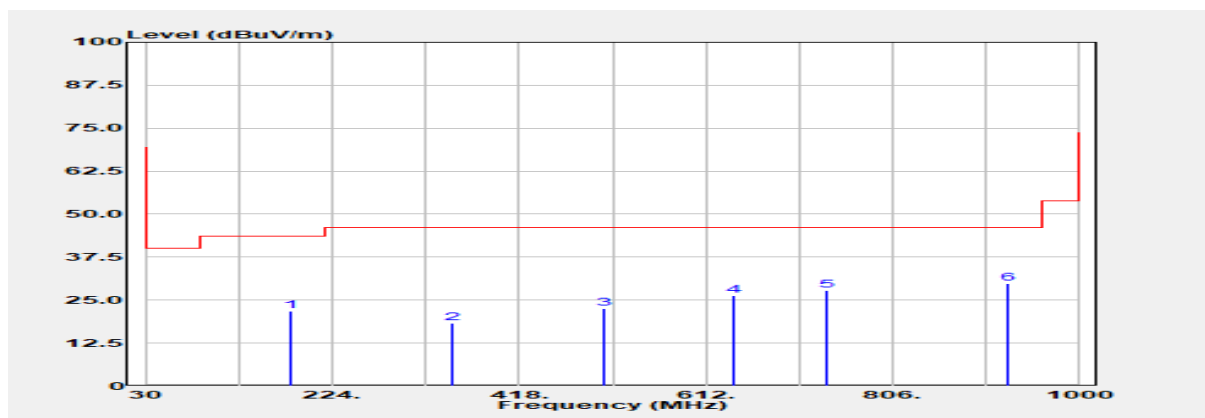
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Report Number :E2/2021/30016  
 Operation Mode :BT EDR  
 Test Frequency :2441 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E2 Plane  
 Ant :NO.4 Dipole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
180.350	Peak	39.56	-17.81	21.75	43.50	-21.75
349.130	Peak	33.62	-15.30	18.32	46.00	-27.68
506.270	Peak	34.10	-11.43	22.67	46.00	-23.33
640.130	Peak	34.26	-8.03	26.24	46.00	-19.76
738.100	Peak	35.24	-7.53	27.70	46.00	-18.30
925.310	Peak	34.81	-5.05	29.76	46.00	-16.24

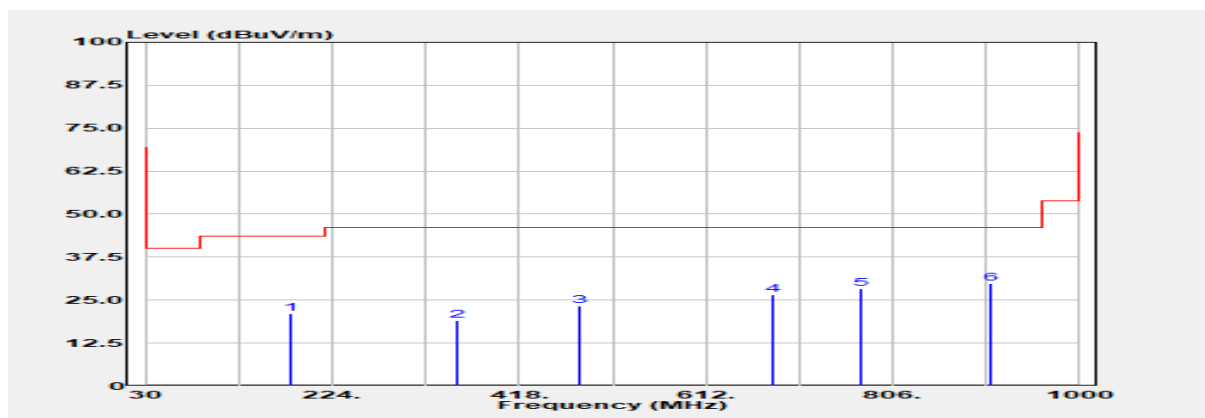
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Report Number :E2/2021/30016  
 Operation Mode :BT BR  
 Test Frequency :2441 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E2 Plane  
 Ant :NO.4 Dipole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
181.320	Peak	39.11	-18.09	21.02	43.50	-22.48
353.980	Peak	33.88	-14.81	19.07	46.00	-26.93
480.080	Peak	34.92	-11.60	23.32	46.00	-22.68
681.840	Peak	34.65	-8.07	26.58	46.00	-19.42
773.990	Peak	34.82	-6.59	28.23	46.00	-17.77
908.820	Peak	35.67	-5.92	29.75	46.00	-16.25

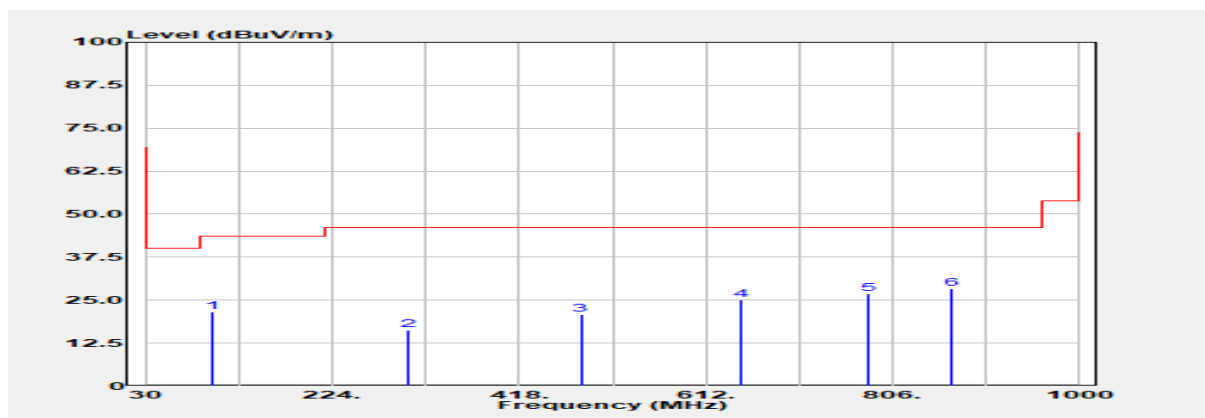
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Report Number :E2/2021/30016  
 Operation Mode :BT BR  
 Test Frequency :2441 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E2 Plane  
 Ant :NO.4 Dipole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
98.870	Peak	43.82	-22.39	21.44	43.50	-22.06
303.540	Peak	32.43	-16.03	16.40	46.00	-29.60
482.020	Peak	32.67	-11.83	20.84	46.00	-25.16
647.890	Peak	33.81	-8.64	25.18	46.00	-20.82
781.750	Peak	34.04	-7.15	26.89	46.00	-19.11
867.110	Peak	34.76	-6.48	28.28	46.00	-17.72

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

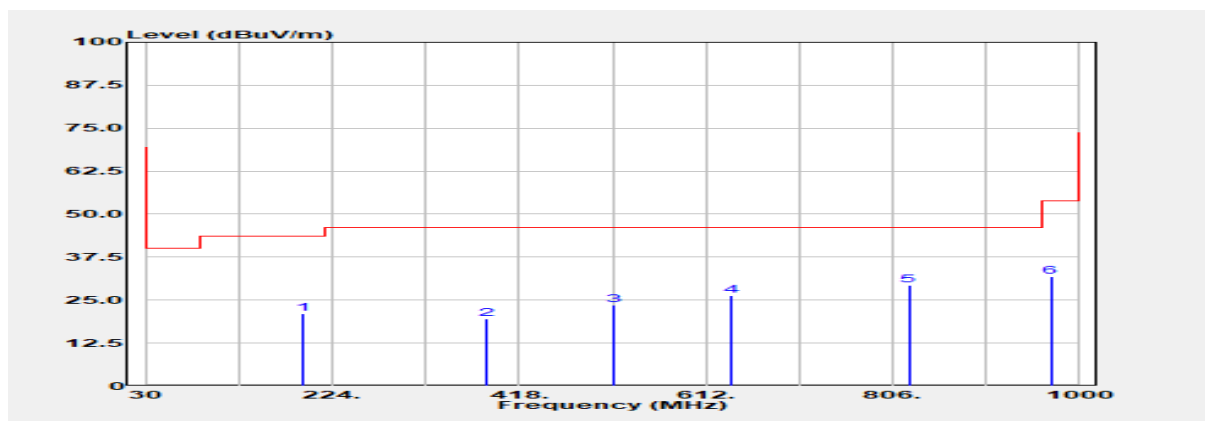
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Report Number :E2/2021/30016  
 Operation Mode :BT EDR  
 Test Frequency :2441 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E2 Plane  
 Ant :NO.4 Dipole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
192.960	Peak	40.57	-19.58	20.99	43.50	-22.51
384.050	Peak	33.83	-14.21	19.62	46.00	-26.38
516.940	Peak	34.58	-11.04	23.54	46.00	-22.46
637.220	Peak	34.76	-8.34	26.42	46.00	-19.58
822.490	Peak	36.08	-6.74	29.34	46.00	-16.66
969.930	Peak	35.65	-3.85	31.80	54.00	-22.20

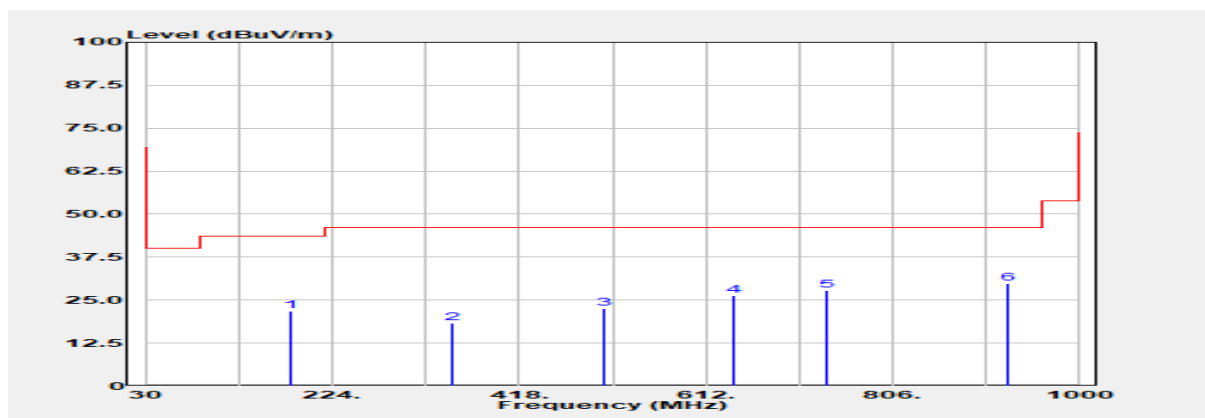
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Report Number :E2/2021/30016  
 Operation Mode :BT EDR  
 Test Frequency :2441 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E2 Plane  
 Ant :NO.4 Dipole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
180.350	Peak	39.56	-17.81	21.75	43.50	-21.75
349.130	Peak	33.62	-15.30	18.32	46.00	-27.68
506.270	Peak	34.10	-11.43	22.67	46.00	-23.33
640.130	Peak	34.26	-8.03	26.24	46.00	-19.76
738.100	Peak	35.24	-7.53	27.70	46.00	-18.30
925.310	Peak	34.81	-5.05	29.76	46.00	-16.24

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

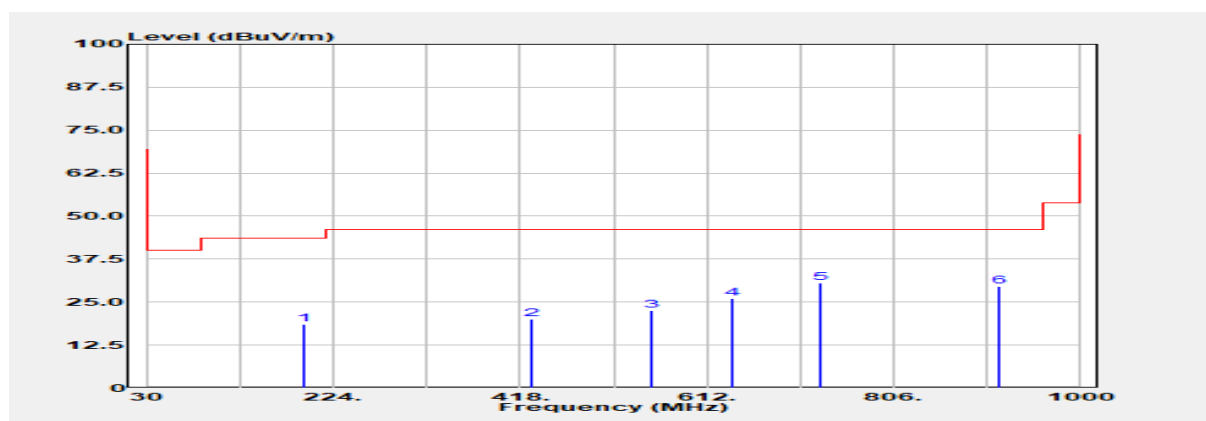
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### 10.7.3 SANT-Monopole Ant No.7

Report Number :E2/2021/30016  
 Operation Mode :BT BR  
 Test Frequency :2441 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E1 Plane  
 Ant :NO.7 Monopole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
193.930	Peak	38.19	-19.67	18.52	43.50	-24.98
430.610	Peak	33.15	-13.10	20.05	46.00	-25.95
554.770	Peak	32.99	-10.36	22.63	46.00	-23.37
637.220	Peak	34.52	-8.34	26.19	46.00	-19.81
729.370	Peak	37.82	-7.24	30.58	46.00	-15.42
915.610	Peak	34.99	-5.43	29.56	46.00	-16.44

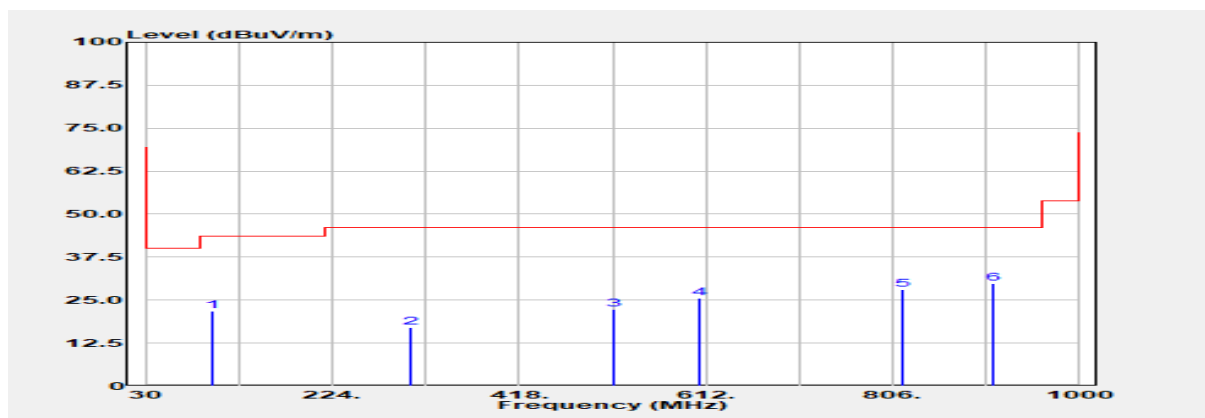
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Report Number :E2/2021/30016  
 Operation Mode :BT BR  
 Test Frequency :2441 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E1 Plane  
 Ant :NO.7 Monopole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
98.870	Peak	44.12	-22.39	21.73	43.50	-21.77
305.480	Peak	32.92	-15.97	16.95	46.00	-29.05
515.970	Peak	33.12	-10.88	22.25	46.00	-23.75
605.210	Peak	34.17	-8.71	25.46	46.00	-20.54
815.700	Peak	34.81	-6.79	28.01	46.00	-17.99
910.760	Peak	35.45	-5.71	29.73	46.00	-16.27

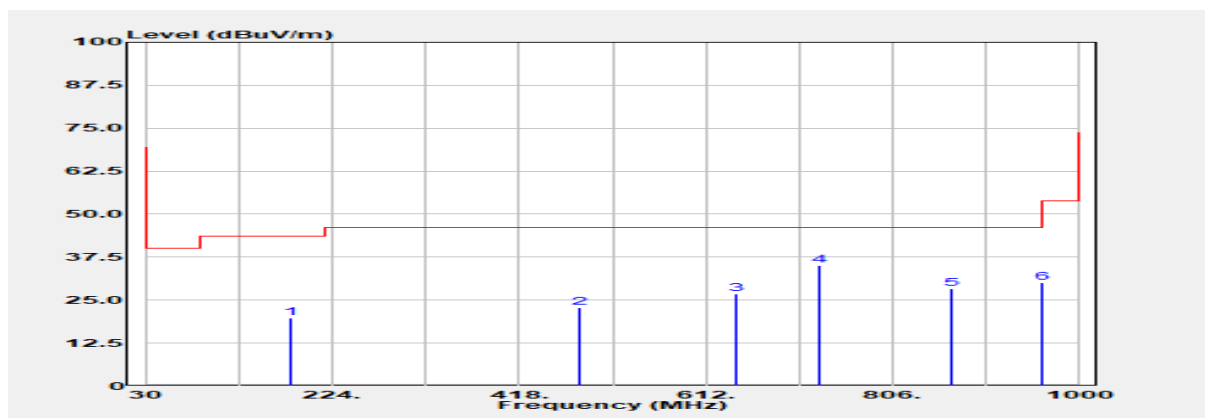
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Report Number :E2/2021/30016  
 Operation Mode :BT EDR  
 Test Frequency :2441 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E1 Plane  
 Ant :NO.7 Monopole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
181.320	Peak	37.90	-18.09	19.81	43.50	-23.69
480.080	Peak	34.47	-11.60	22.87	46.00	-23.13
644.010	Peak	35.45	-8.63	26.83	46.00	-19.17
729.370	Peak	42.41	-7.24	35.17	46.00	-10.83
866.140	Peak	34.85	-6.42	28.43	46.00	-17.57
960.230	Peak	35.08	-4.89	30.18	54.00	-23.82

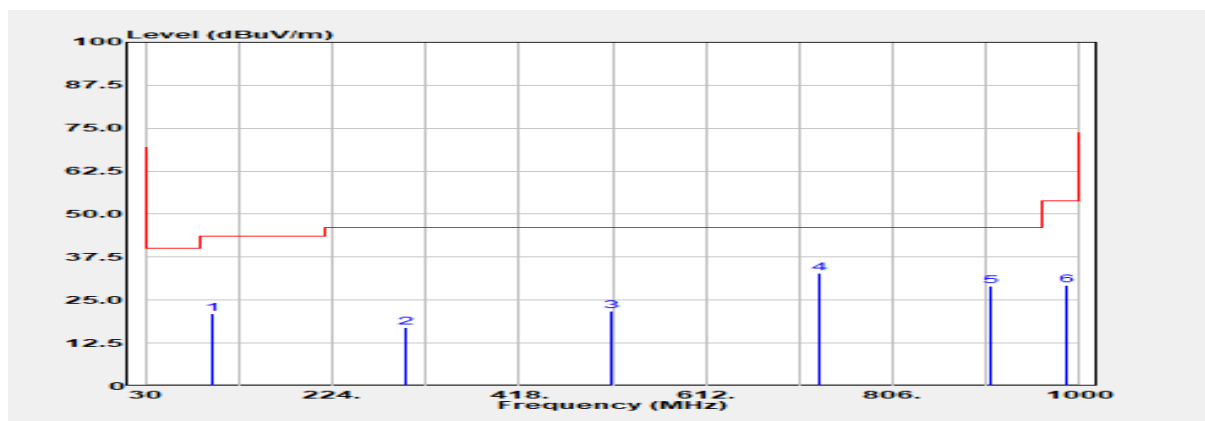
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Report Number :E2/2021/30016  
 Operation Mode :BT EDR  
 Test Frequency :2441 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E1 Plane  
 Ant :NO.7 Monopole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
98.870	Peak	43.34	-22.39	20.96	43.50	-22.54
300.630	Peak	33.25	-16.09	17.17	46.00	-28.83
513.060	Peak	32.60	-10.82	21.77	46.00	-24.23
729.370	Peak	40.06	-7.24	32.82	46.00	-13.18
908.820	Peak	35.02	-5.92	29.10	46.00	-16.90
986.420	Peak	34.10	-4.66	29.44	54.00	-24.56

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## 10.7.4 Radiated Spurious Emission above 1 GHz:

### 10.7.5 DANT-Dipole Ant No.5

Report Number :E2/2021/30016

Test Site :SAC D

Operation Mode :BT BR

Test Date :2021-09-09

Test Frequency :2402 MHz

Temp./Humi. :22.8/64

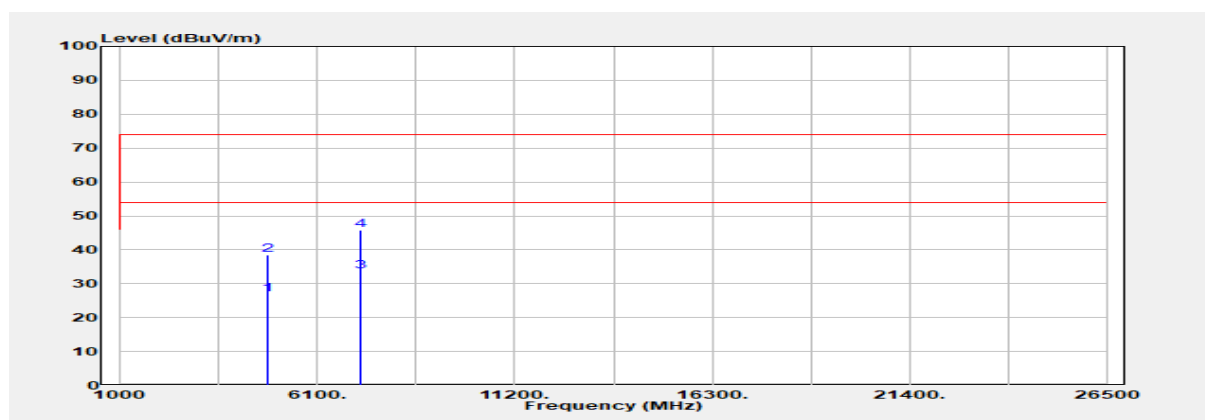
Test Mode :TX CH LOW

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang

Ant :NO:5



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4804.000	Average	29.91	-3.04	26.87	54.00	-27.13
4804.000	Peak	41.44	-3.04	38.40	74.00	-35.60
7206.000	Average	30.52	2.98	33.50	54.00	-20.50
7206.000	Peak	42.73	2.98	45.71	74.00	-28.29

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Report Number :E2/2021/30016

Test Site :SAC D

Operation Mode :BT BR

Test Date :2021-09-09

Test Frequency :2402 MHz

Temp./Humi. :22.8/64

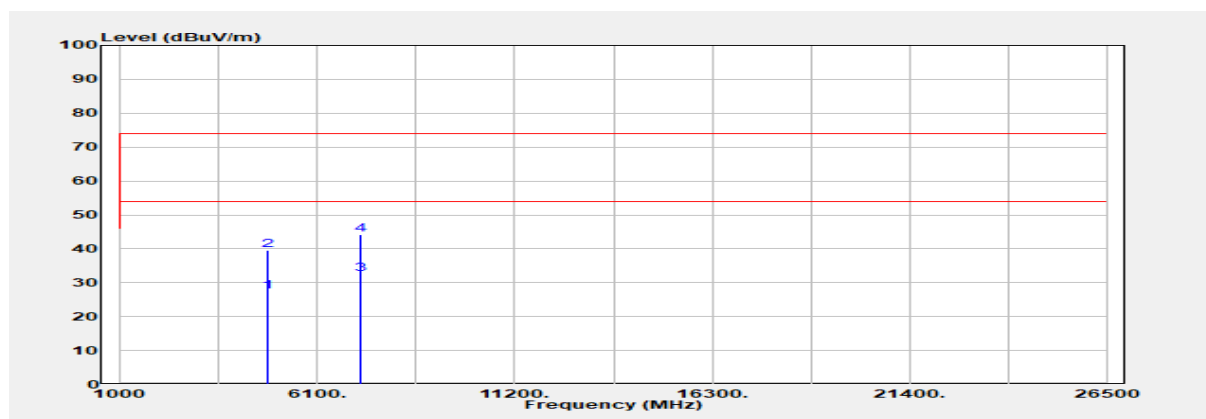
Test Mode :TX CH LOW

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang

Ant :NO:5



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Average	30.37	-3.04	27.33	54.00	-26.67
4804.000	Peak	42.68	-3.04	39.63	74.00	-34.37
7206.000	Average	29.67	2.98	32.65	54.00	-21.35
7206.000	Peak	41.09	2.98	44.07	74.00	-29.93

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Report Number :E2/2021/30016

Test Site :SAC D

Operation Mode :BT BR

Test Date :2021-09-09

Test Frequency :2441 MHz

Temp./Humi. :22.8/64

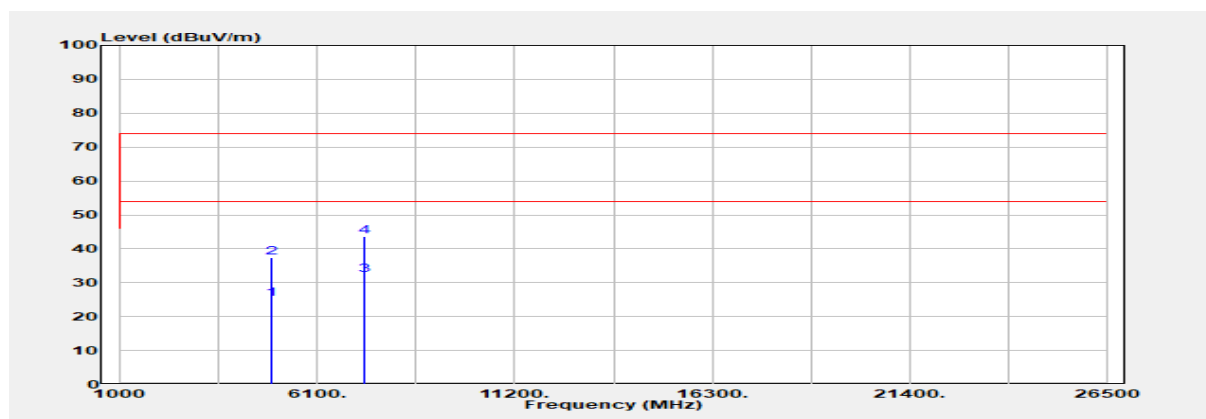
Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang

Ant :NO:5



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4882.000	Average	28.33	-3.06	25.28	54.00	-28.72
4882.000	Peak	40.56	-3.06	37.51	74.00	-36.49
7323.000	Average	28.77	3.37	32.14	54.00	-21.86
7323.000	Peak	40.20	3.37	43.57	74.00	-30.43

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Report Number :E2/2021/30016

Test Site :SAC D

Operation Mode :BT BR

Test Date :2021-09-09

Test Frequency :2441 MHz

Temp./Humi. :22.8/64

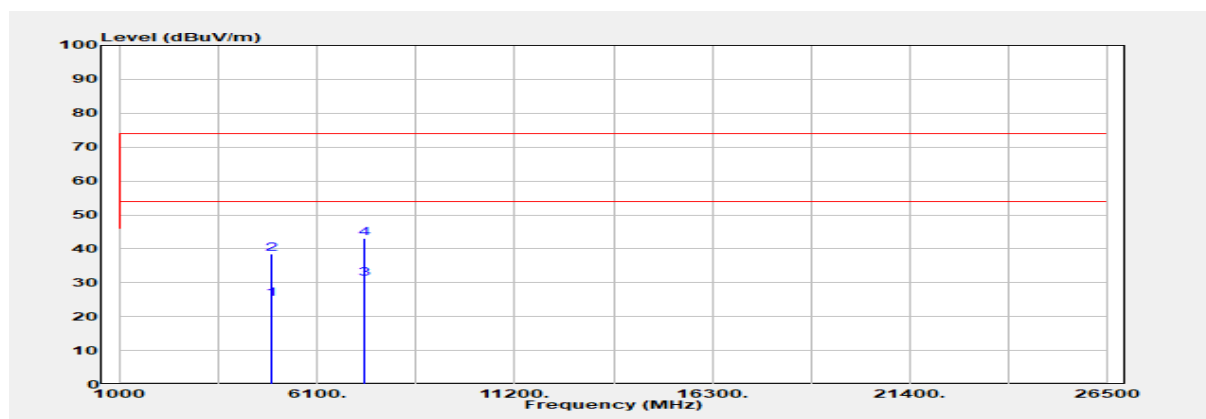
Test Mode :TX CH MID

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang

Ant :NO:5



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4882.000	Average	28.26	-3.06	25.20	54.00	-28.80
4882.000	Peak	41.42	-3.06	38.37	74.00	-35.63
7323.000	Average	27.68	3.37	31.05	54.00	-22.95
7323.000	Peak	39.77	3.37	43.13	74.00	-30.87

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Report Number :E2/2021/30016

Test Site :SAC D

Operation Mode :BT BR

Test Date :2021-09-09

Test Frequency :2480 MHz

Temp./Humi. :22.8/64

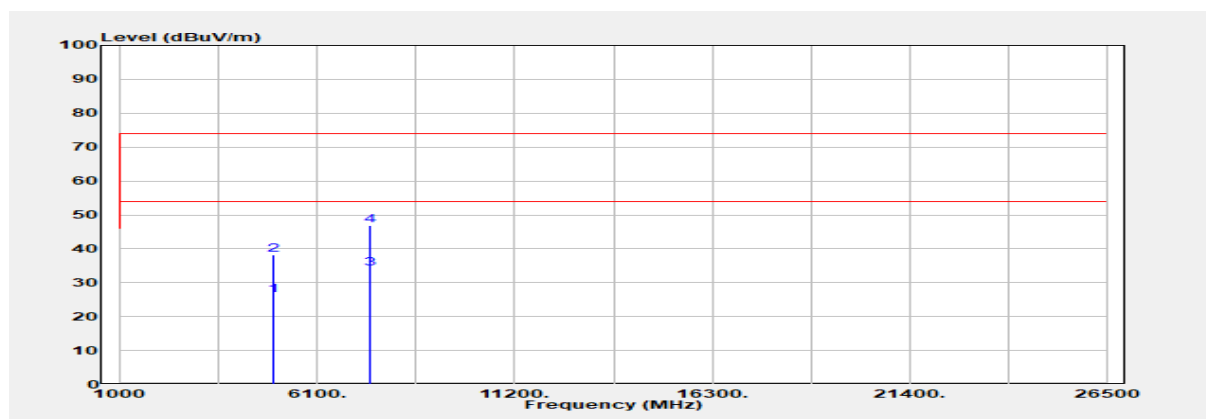
Test Mode :TX CH HIGH

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang

Ant :NO:5



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	29.19	-2.87	26.32	54.00	-27.68
4960.000	Peak	41.15	-2.87	38.28	74.00	-35.72
7440.000	Average	30.34	3.85	34.19	54.00	-19.81
7440.000	Peak	42.99	3.85	46.84	74.00	-27.16

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Report Number :E2/2021/30016

Test Site :SAC D

Operation Mode :BT BR

Test Date :2021-09-09

Test Frequency :2480 MHz

Temp./Humi. :22.8/64

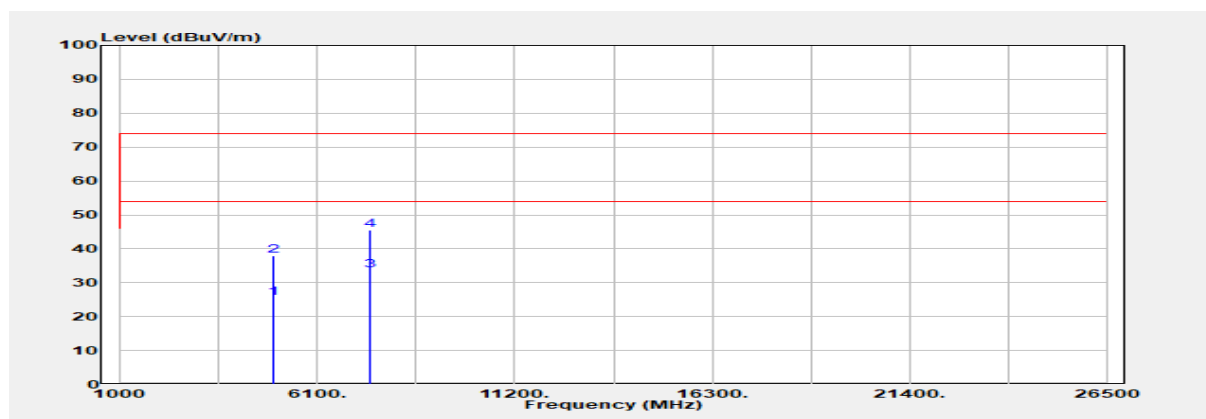
Test Mode :TX CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang

Ant :NO:5



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4960.000	Average	28.47	-2.87	25.60	54.00	-28.40
4960.000	Peak	40.84	-2.87	37.97	74.00	-36.03
7440.000	Average	29.82	3.85	33.67	54.00	-20.33
7440.000	Peak	41.59	3.85	45.44	74.00	-28.56

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Report Number :E2/2021/30016

Test Site :SAC D

Operation Mode :BT EDR

Test Date :2021-09-09

Test Frequency :2402 MHz

Temp./Humi. :22.8/64

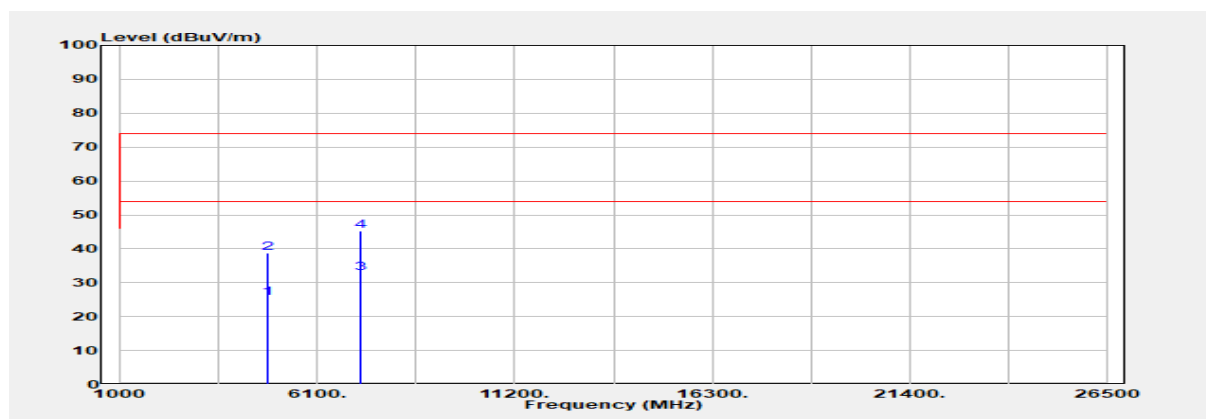
Test Mode :TX CH LOW

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang

Ant :NO:5



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Average	28.46	-3.04	25.42	54.00	-28.58
4804.000	Peak	41.67	-3.04	38.63	74.00	-35.37
7206.000	Average	29.73	2.98	32.71	54.00	-21.29
7206.000	Peak	42.36	2.98	45.35	74.00	-28.65

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Report Number :E2/2021/30016

Test Site :SAC D

Operation Mode :BT EDR

Test Date :2021-09-09

Test Frequency :2402 MHz

Temp./Humi. :22.8/64

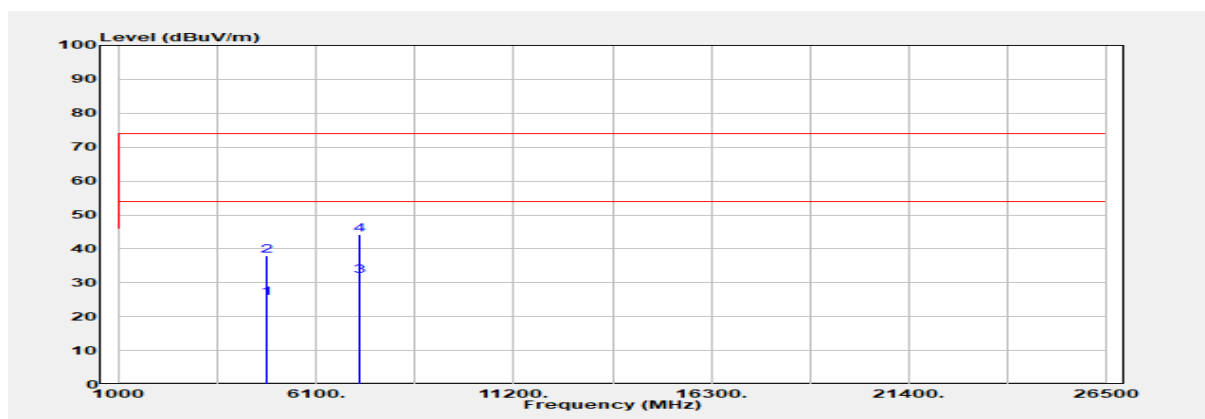
Test Mode :TX CH LOW

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang

Ant :NO:5



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Average	28.54	-3.04	25.50	54.00	-28.50
4804.000	Peak	40.94	-3.04	37.90	74.00	-36.10
7206.000	Average	29.12	2.98	32.10	54.00	-21.90
7206.000	Peak	41.31	2.98	44.29	74.00	-29.71

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Report Number :E2/2021/30016

Test Site :SAC D

Operation Mode :BT EDR

Test Date :2021-09-09

Test Frequency :2441 MHz

Temp./Humi. :22.8/64

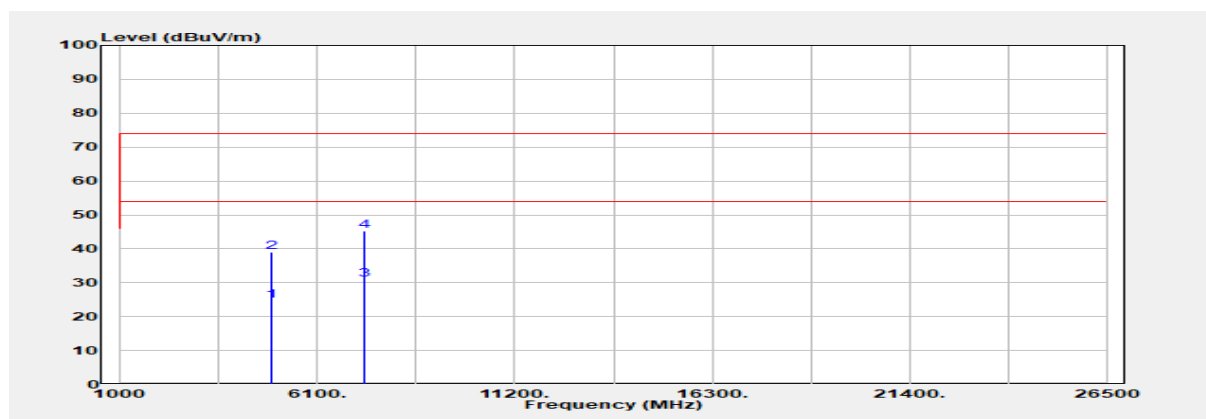
Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang

Ant :NO:5



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4882.000	Average	27.69	-3.06	24.63	54.00	-29.37
4882.000	Peak	41.96	-3.06	38.90	74.00	-35.10
7323.000	Average	27.45	3.37	30.82	54.00	-23.18
7323.000	Peak	41.83	3.37	45.20	74.00	-28.80

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Report Number :E2/2021/30016

Test Site :SAC D

Operation Mode :BT EDR

Test Date :2021-09-09

Test Frequency :2441 MHz

Temp./Humi. :22.8/64

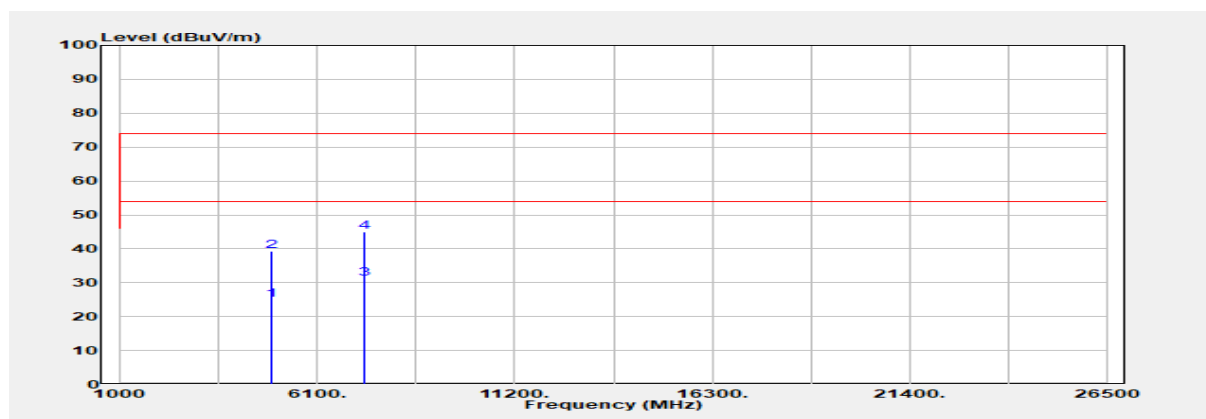
Test Mode :TX CH MID

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang

Ant :NO:5



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4882.000	Average	28.01	-3.06	24.95	54.00	-29.05
4882.000	Peak	42.26	-3.06	39.20	74.00	-34.80
7323.000	Average	27.81	3.37	31.18	54.00	-22.82
7323.000	Peak	41.63	3.37	45.00	74.00	-29.00

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Report Number :E2/2021/30016

Test Site :SAC D

Operation Mode :BT EDR

Test Date :2021-09-09

Test Frequency :2480 MHz

Temp./Humi. :22.8/64

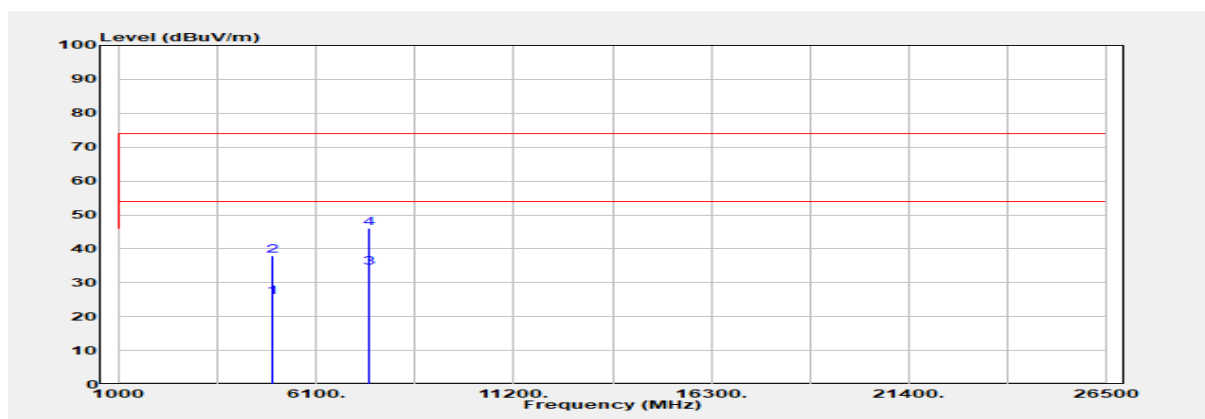
Test Mode :TX CH HIGH

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang

Ant :NO:5



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	28.63	-2.87	25.76	54.00	-28.24
4960.000	Peak	40.74	-2.87	37.87	74.00	-36.13
7440.000	Average	30.50	3.85	34.35	54.00	-19.65
7440.000	Peak	42.26	3.85	46.11	74.00	-27.89

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Report Number :E2/2021/30016

Test Site :SAC D

Operation Mode :BT EDR

Test Date :2021-09-09

Test Frequency :2480 MHz

Temp./Humi. :22.8/64

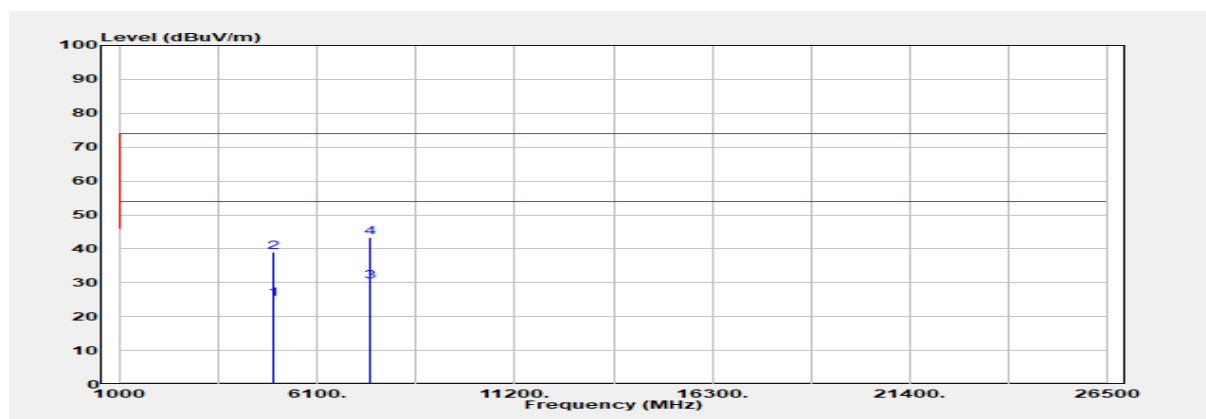
Test Mode :TX CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang

Ant :NO:5



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4960.000	Average	27.95	-2.87	25.08	54.00	-28.92
4960.000	Peak	41.88	-2.87	39.01	74.00	-34.99
7440.000	Average	26.56	3.85	30.41	54.00	-23.59
7440.000	Peak	39.41	3.85	43.26	74.00	-30.74

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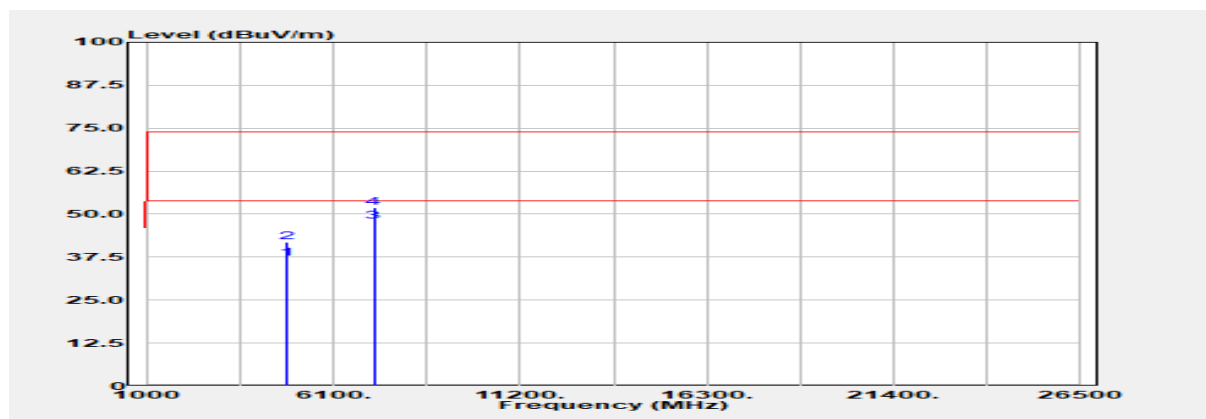
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### 10.7.6 SANT-Dipole Ant No.4

Report Number :E2/2021/30016  
Operation Mode :BT BR  
Test Frequency :2402 MHz  
Test Mode :TX CH LOW  
EUT Pol :E2 Plane  
Ant :NO.4 Dipole

Test Site :966 Chamber D  
Test Date :2021-07-19  
Temp./Humi. :23.5/60  
Antenna Pol. :Vertical  
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4804.000	Average	40.18	-3.03	37.15	54.00	-16.85
4804.000	Peak	44.92	-3.03	41.88	74.00	-32.12
7206.000	Average	44.82	2.98	47.80	54.00	-6.20
7206.000	Peak	48.94	2.98	51.92	74.00	-22.08

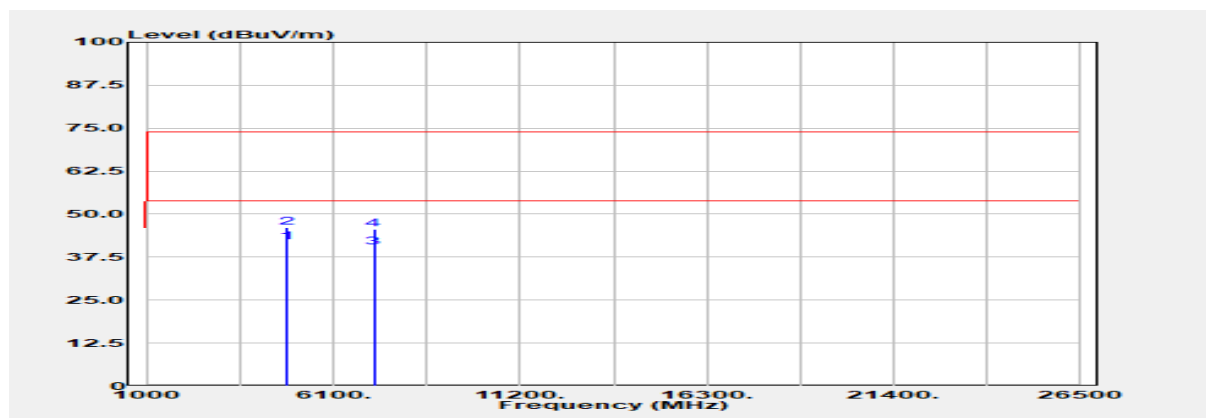
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Report Number :E2/2021/30016  
 Operation Mode :BT BR  
 Test Frequency :2402 MHz  
 Test Mode :TX CH LOW  
 EUT Pol :E2 Plane  
 Ant :NO.4 Dipole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Average	44.89	-3.03	41.85	54.00	-12.15
4804.000	Peak	49.21	-3.03	46.18	74.00	-27.82
7206.000	Average	37.46	2.98	40.44	54.00	-13.56
7206.000	Peak	42.70	2.98	45.69	74.00	-28.31

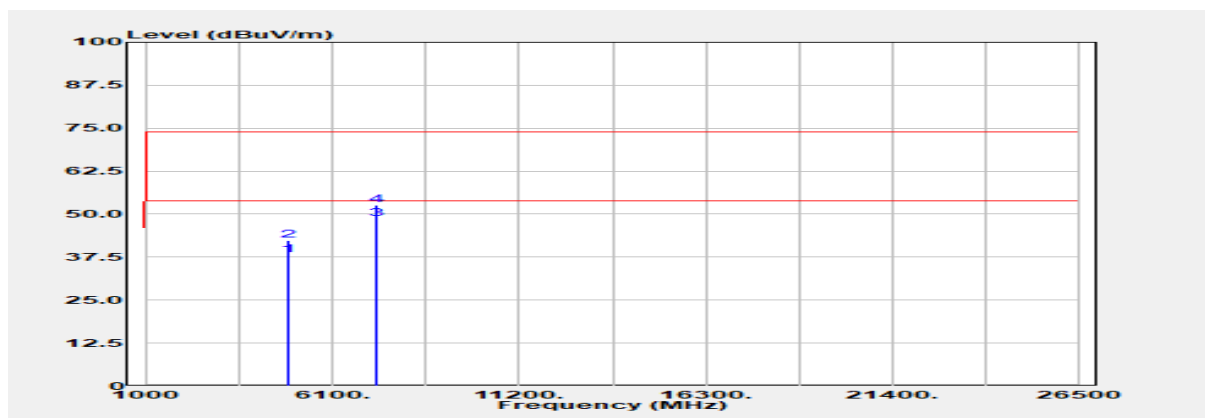
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Report Number :E2/2021/30016  
 Operation Mode :BT BR  
 Test Frequency :2441 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E2 Plane  
 Ant :NO.4 Dipole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4882.000	Average	41.09	-3.02	38.07	54.00	-15.93
4882.000	Peak	45.32	-3.02	42.30	74.00	-31.70
7323.000	Average	45.37	3.28	48.65	54.00	-5.35
7323.000	Peak	49.28	3.28	52.56	74.00	-21.44

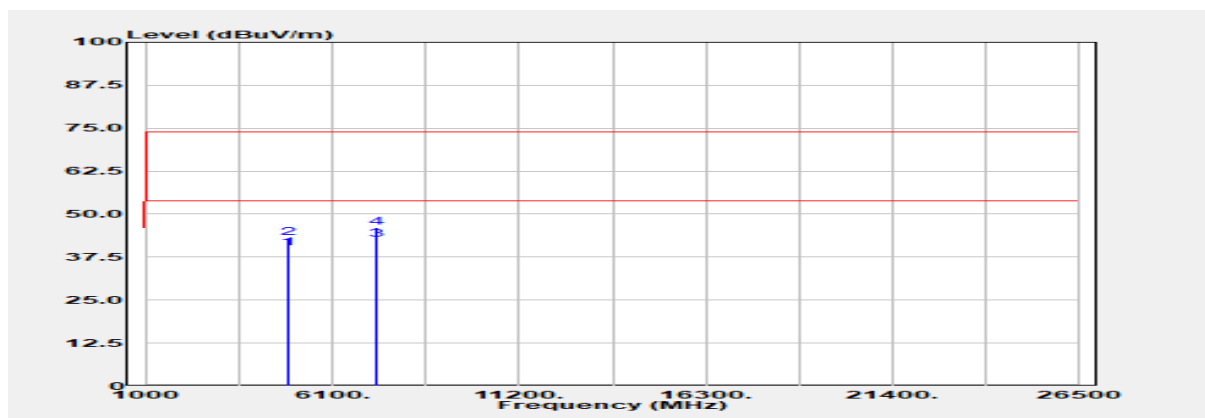
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Report Number :E2/2021/30016  
 Operation Mode :BT BR  
 Test Frequency :2441 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E2 Plane  
 Ant :NO.4 Dipole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4882.000	Average	43.21	-3.02	40.19	54.00	-13.81
4882.000	Peak	46.24	-3.02	43.22	74.00	-30.78
7323.000	Average	39.34	3.28	42.62	54.00	-11.38
7323.000	Peak	42.92	3.28	46.19	74.00	-27.81

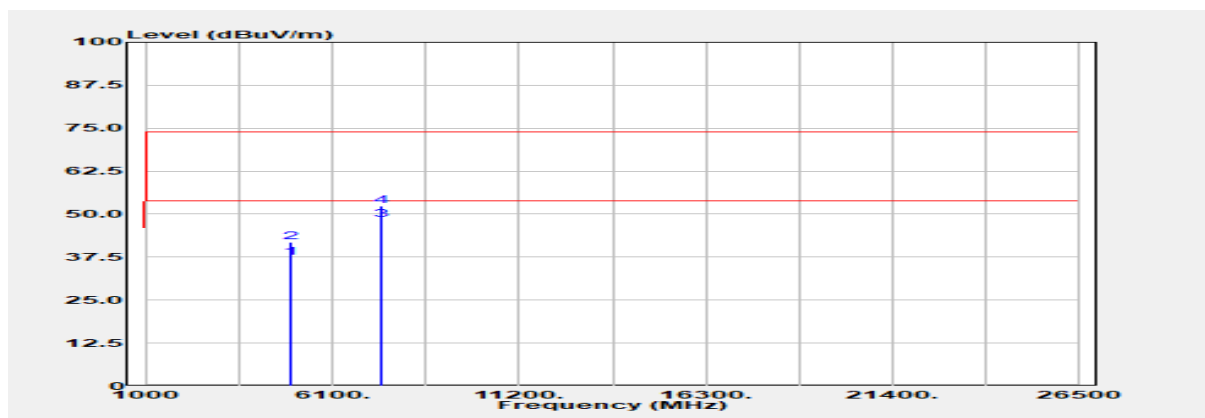
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Report Number :E2/2021/30016  
 Operation Mode :BT BR  
 Test Frequency :2480 MHz  
 Test Mode :TX CH HIGH  
 EUT Pol :E2 Plane  
 Ant :NO.4 Dipole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



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	40.26	-2.89	37.36	54.00	-16.64
4960.000	Peak	44.67	-2.89	41.77	74.00	-32.23
7440.000	Average	44.78	3.65	48.43	54.00	-5.57
7440.000	Peak	48.73	3.65	52.38	74.00	-21.62

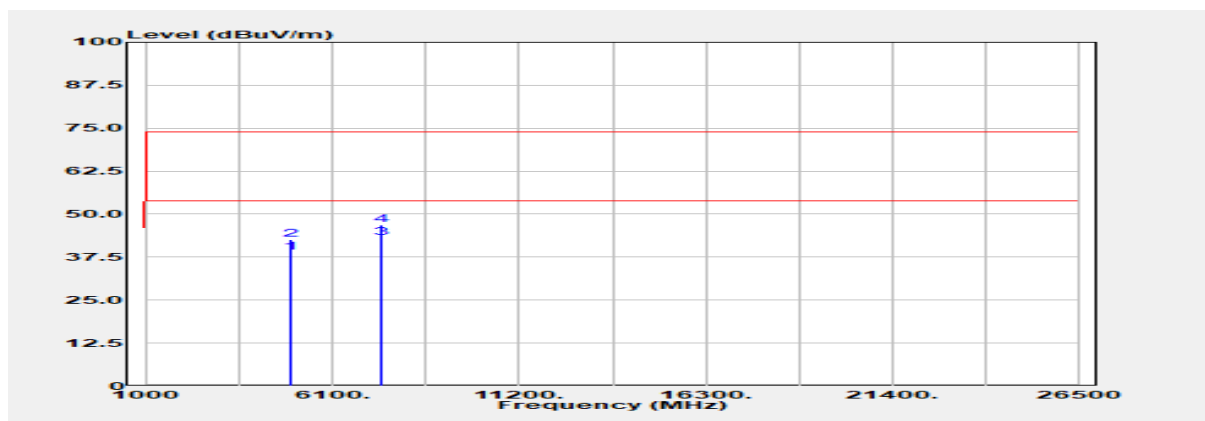
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Report Number :E2/2021/30016  
Operation Mode :BT BR  
Test Frequency :2480 MHz  
Test Mode :TX CH HIGH  
EUT Pol :E2 Plane  
Ant :NO.4 Dipole

Test Site :966 Chamber D  
Test Date :2021-07-19  
Temp./Humi. :23.5/60  
Antenna Pol. :Horizontal  
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4960.000	Average	41.70	-2.89	38.81	54.00	-15.19
4960.000	Peak	45.43	-2.89	42.54	74.00	-31.46
7440.000	Average	39.43	3.65	43.08	54.00	-10.92
7440.000	Peak	43.19	3.65	46.84	74.00	-27.16

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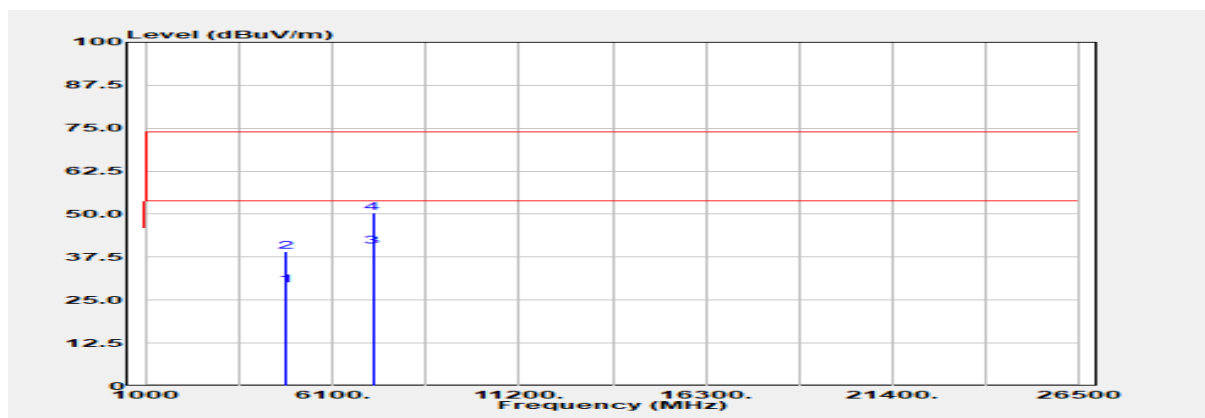
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Report Number :E2/2021/30016  
Operation Mode :BT EDR  
Test Frequency :2402 MHz  
Test Mode :TX CH LOW  
EUT Pol :E2 Plane  
Ant :NO.4 Dipole

Test Site :966 Chamber D  
Test Date :2021-07-19  
Temp./Humi. :23.5/60  
Antenna Pol. :Vertical  
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Average	32.29	-3.03	29.26	54.00	-24.74
4804.000	Peak	42.17	-3.03	39.13	74.00	-34.87
7206.000	Average	37.73	2.98	40.71	54.00	-13.29
7206.000	Peak	47.28	2.98	50.26	74.00	-23.74

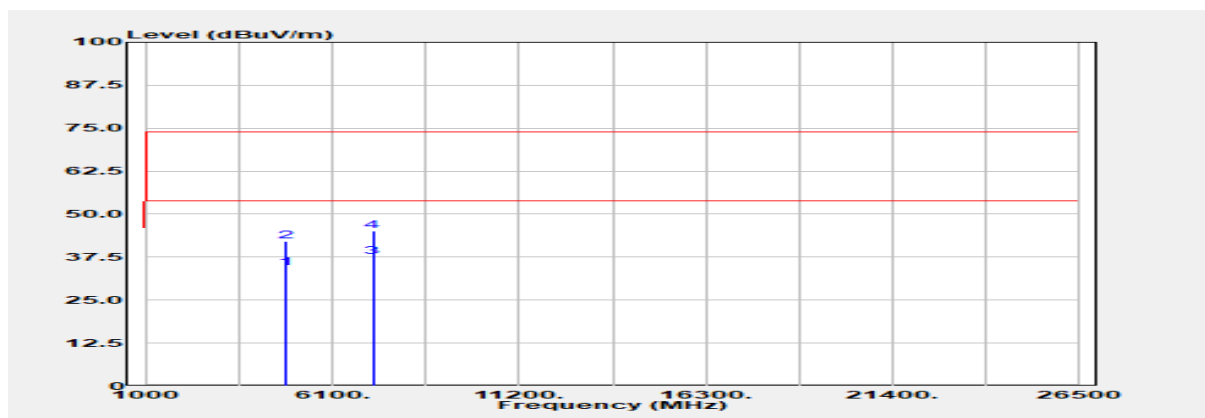
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Report Number :E2/2021/30016  
Operation Mode :BT EDR  
Test Frequency :2402 MHz  
Test Mode :TX CH LOW  
EUT Pol :E2 Plane  
Ant :NO.4 Dipole

Test Site :966 Chamber D  
Test Date :2021-07-19  
Temp./Humi. :23.5/60  
Antenna Pol. :Horizontal  
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Average	37.42	-3.03	34.39	54.00	-19.61
4804.000	Peak	45.17	-3.03	42.14	74.00	-31.86
7206.000	Average	34.73	2.98	37.71	54.00	-16.29
7206.000	Peak	42.11	2.98	45.09	74.00	-28.91

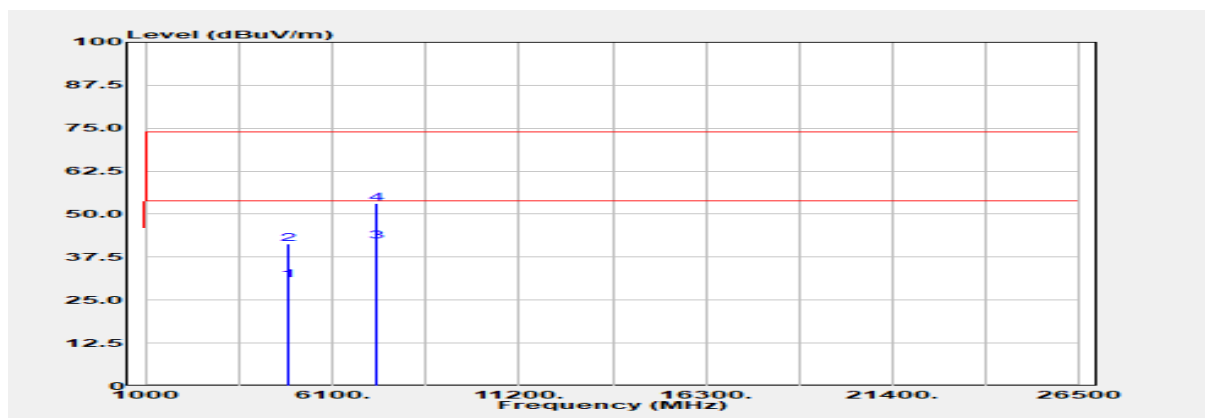
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Report Number :E2/2021/30016  
 Operation Mode :BT EDR  
 Test Frequency :2441 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E2 Plane  
 Ant :NO.4 Dipole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



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	33.81	-3.02	30.79	54.00	-23.21
4882.000	Peak	44.39	-3.02	41.37	74.00	-32.63
7323.000	Average	38.73	3.28	42.01	54.00	-11.99
7323.000	Peak	49.82	3.28	53.10	74.00	-20.90

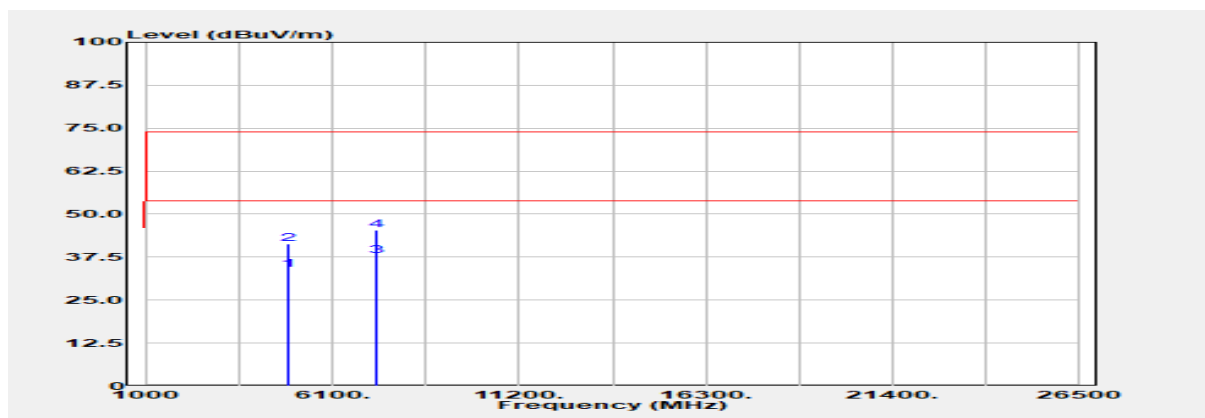
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Report Number :E2/2021/30016  
 Operation Mode :BT EDR  
 Test Frequency :2441 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E2 Plane  
 Ant :NO.4 Dipole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4882.000	Average	36.86	-3.02	33.84	54.00	-20.16
4882.000	Peak	44.48	-3.02	41.46	74.00	-32.54
7323.000	Average	34.56	3.28	37.84	54.00	-16.16
7323.000	Peak	42.14	3.28	45.41	74.00	-28.59

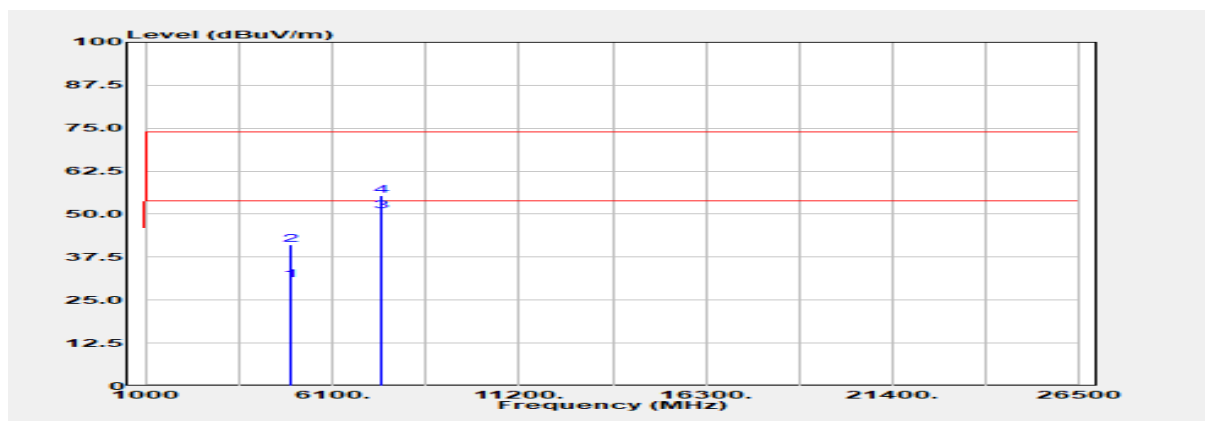
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Report Number :E2/2021/30016  
 Operation Mode :BT EDR  
 Test Frequency :2480 MHz  
 Test Mode :TX CH HIGH  
 EUT Pol :E2 Plane  
 Ant :NO.4 Dipole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



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	33.68	-2.89	30.79	54.00	-23.21
4960.000	Peak	44.00	-2.89	41.11	74.00	-32.89
7440.000	Average	47.35	3.65	50.99	54.00	-3.01
7440.000	Peak	51.71	3.65	55.35	74.00	-18.65

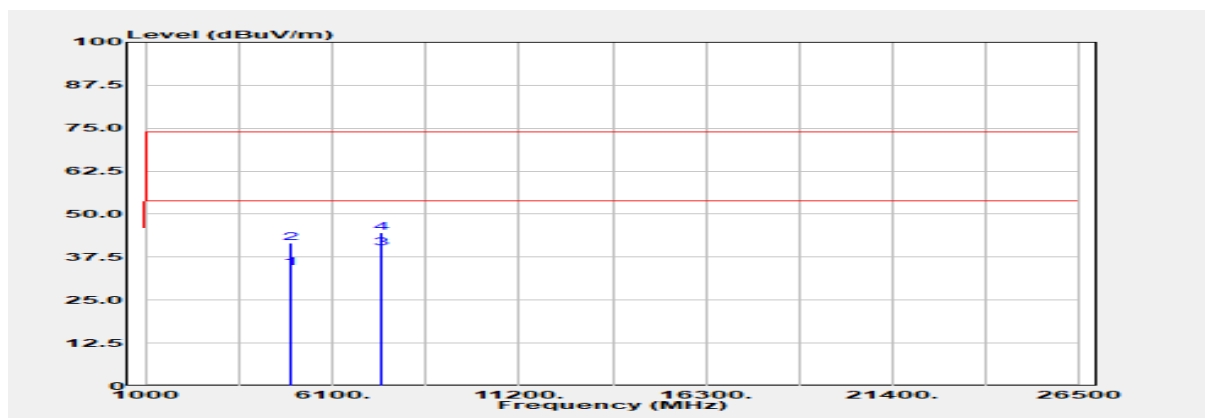
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Report Number :E2/2021/30016  
Operation Mode :BT EDR  
Test Frequency :2480 MHz  
Test Mode :TX CH HIGH  
EUT Pol :E2 Plane  
Ant :NO.4 Dipole

Test Site :966 Chamber D  
Test Date :2021-07-19  
Temp./Humi. :23.5/60  
Antenna Pol. :Horizontal  
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4960.000	Average	37.27	-2.89	34.37	54.00	-19.63
4960.000	Peak	44.46	-2.89	41.56	74.00	-32.44
7440.000	Average	36.57	3.65	40.22	54.00	-13.78
7440.000	Peak	40.92	3.65	44.56	74.00	-29.44

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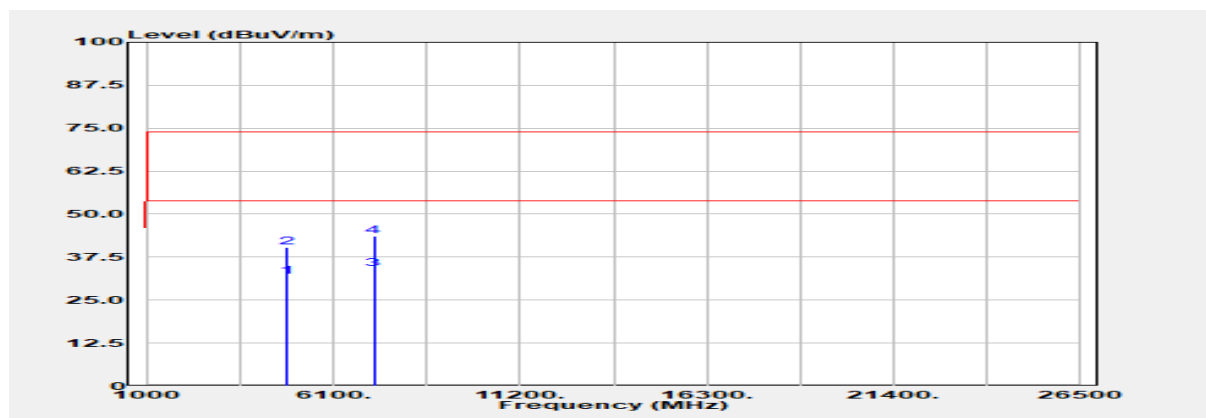
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### 10.7.7 SANT-Monopole Ant No.7

Report Number :E2/2021/30016  
 Operation Mode :BT BR  
 Test Frequency :2402 MHz  
 Test Mode :TX CH LOW  
 EUT Pol :E1 Plane  
 Ant :NO.7 Monopole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4804.000	Average	34.84	-3.03	31.81	54.00	-22.19
4804.000	Peak	43.43	-3.03	40.40	74.00	-33.60
7206.000	Average	31.09	2.98	34.07	54.00	-19.93
7206.000	Peak	40.53	2.98	43.51	74.00	-30.49

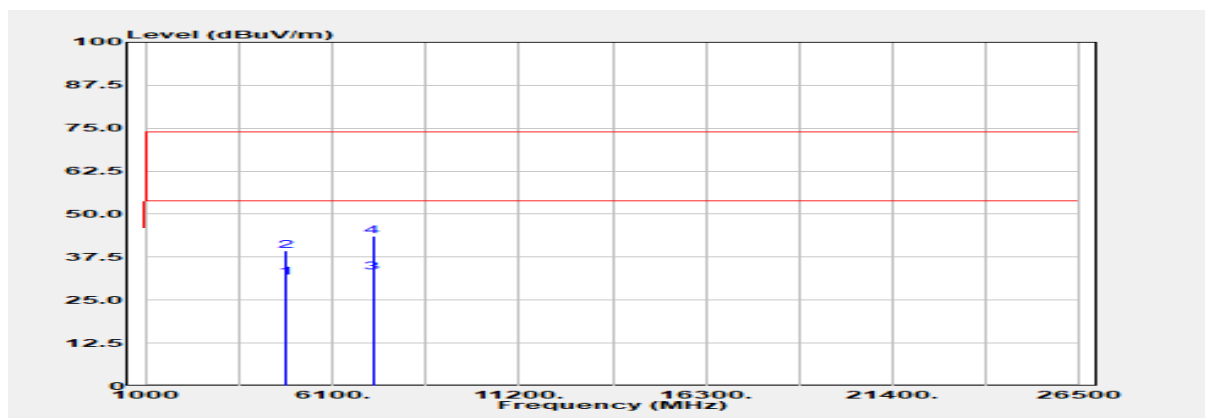
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Report Number :E2/2021/30016  
 Operation Mode :BT BR  
 Test Frequency :2402 MHz  
 Test Mode :TX CH LOW  
 EUT Pol :E1 Plane  
 Ant :NO.7 Monopole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4804.000	Average	34.51	-3.03	31.48	54.00	-22.52
4804.000	Peak	42.42	-3.03	39.39	74.00	-34.61
7206.000	Average	30.21	2.98	33.19	54.00	-20.81
7206.000	Peak	40.71	2.98	43.70	74.00	-30.30

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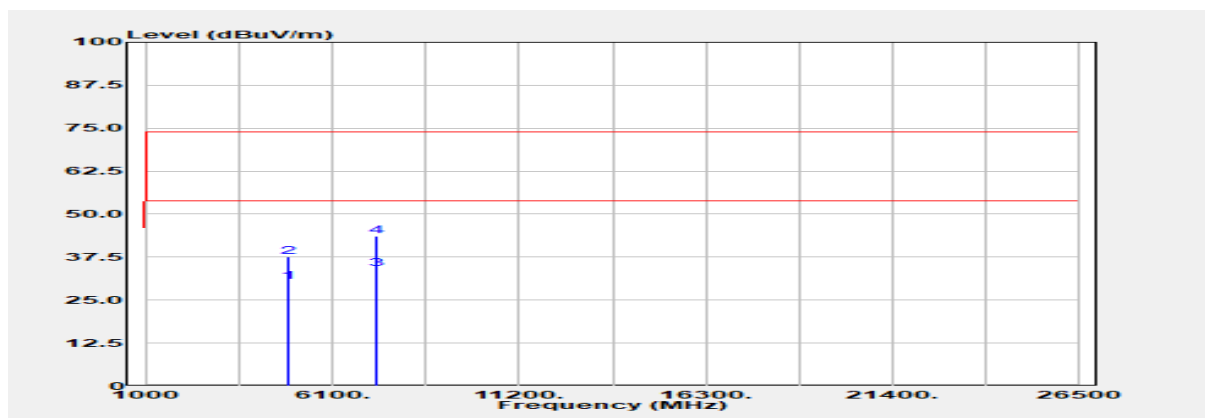
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Report Number :E2/2021/30016  
 Operation Mode :BT BR  
 Test Frequency :2441 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E1 Plane  
 Ant :NO.7 Monopole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4882.000	Average	33.27	-3.02	30.25	54.00	-23.75
4882.000	Peak	40.66	-3.02	37.64	74.00	-36.36
7323.000	Average	30.82	3.28	34.10	54.00	-19.90
7323.000	Peak	40.23	3.28	43.51	74.00	-30.49

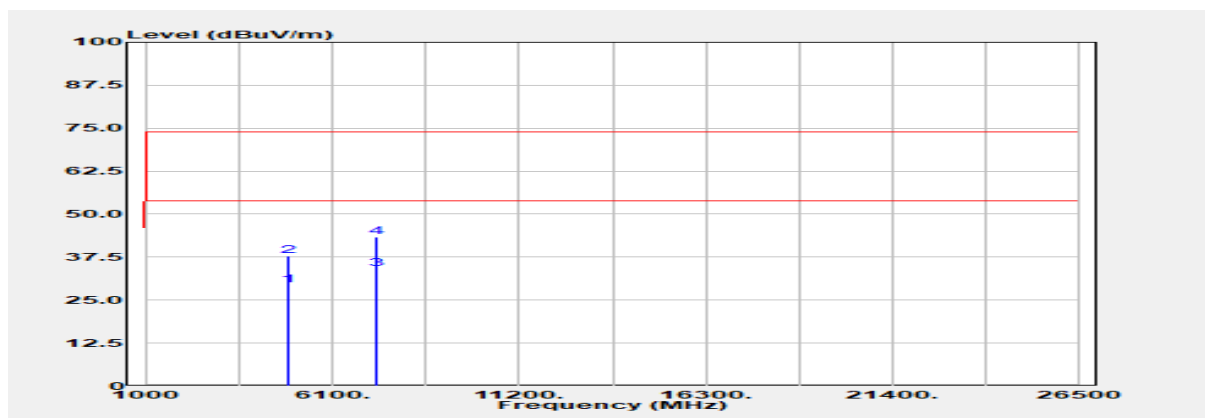
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Report Number :E2/2021/30016  
 Operation Mode :BT BR  
 Test Frequency :2441 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E1 Plane  
 Ant :NO.7 Monopole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4882.000	Average	32.45	-3.02	29.43	54.00	-24.57
4882.000	Peak	40.83	-3.02	37.81	74.00	-36.19
7323.000	Average	30.93	3.28	34.21	54.00	-19.79
7323.000	Peak	39.96	3.28	43.24	74.00	-30.76

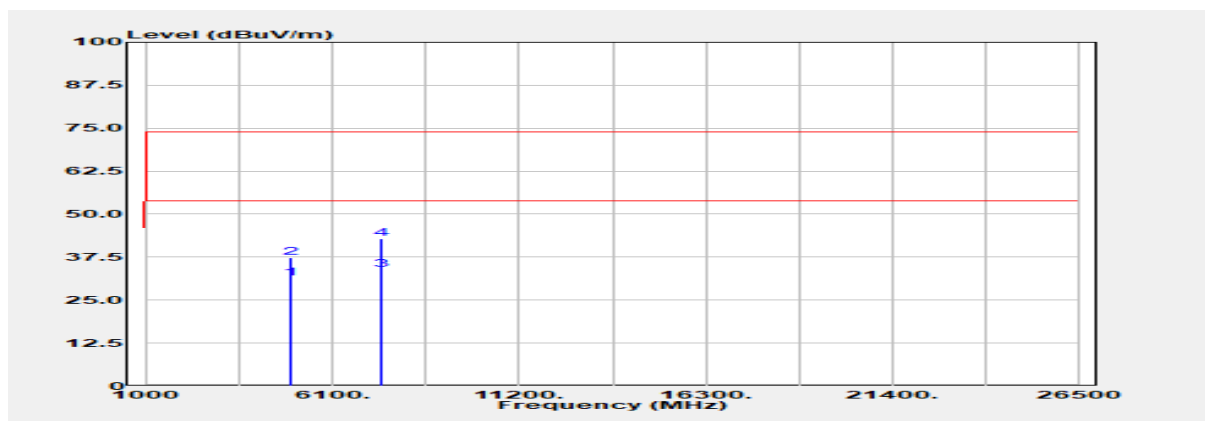
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Report Number :E2/2021/30016  
 Operation Mode :BT BR  
 Test Frequency :2480 MHz  
 Test Mode :TX CH HIGH  
 EUT Pol :E1 Plane  
 Ant :NO.7 Monopole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



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	34.10	-2.89	31.21	54.00	-22.79
4960.000	Peak	40.28	-2.89	37.39	74.00	-36.61
7440.000	Average	30.23	3.65	33.88	54.00	-20.12
7440.000	Peak	39.26	3.65	42.91	74.00	-31.09

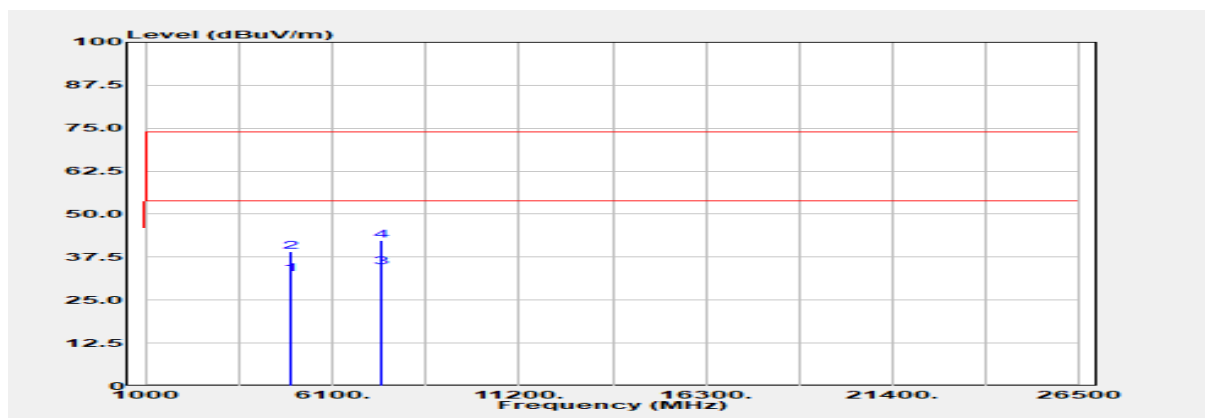
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Report Number :E2/2021/30016  
 Operation Mode :BT BR  
 Test Frequency :2480 MHz  
 Test Mode :TX CH HIGH  
 EUT Pol :E1 Plane  
 Ant :NO.7 Monopole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4960.000	Average	35.42	-2.89	32.53	54.00	-21.47
4960.000	Peak	41.97	-2.89	39.08	74.00	-34.92
7440.000	Average	30.97	3.65	34.61	54.00	-19.39
7440.000	Peak	38.60	3.65	42.25	74.00	-31.75

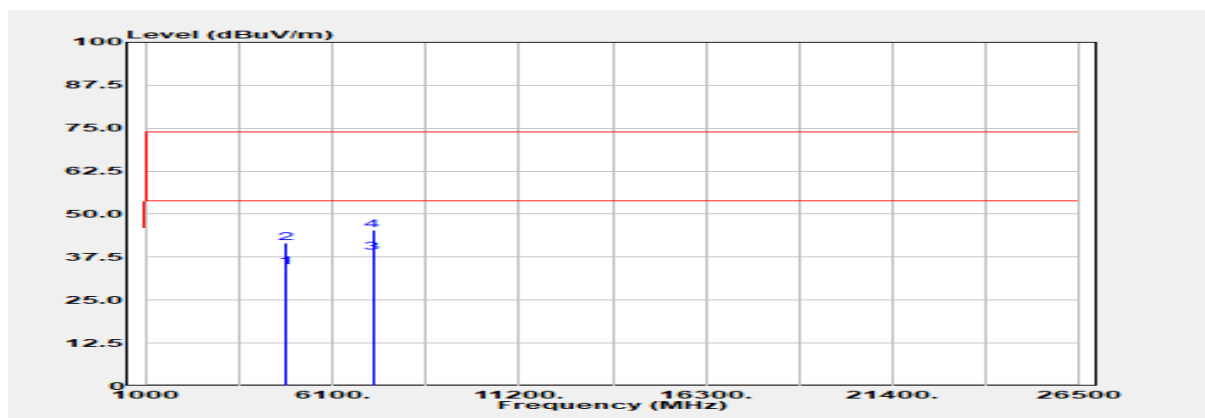
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Report Number :E2/2021/30016  
 Operation Mode :BT EDR  
 Test Frequency :2402 MHz  
 Test Mode :TX CH LOW  
 EUT Pol :E1 Plane  
 Ant :NO.7 Monopole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Average	37.66	-3.03	34.63	54.00	-19.37
4804.000	Peak	44.63	-3.03	41.60	74.00	-32.40
7206.000	Average	35.88	2.98	38.86	54.00	-15.14
7206.000	Peak	42.33	2.98	45.31	74.00	-28.69

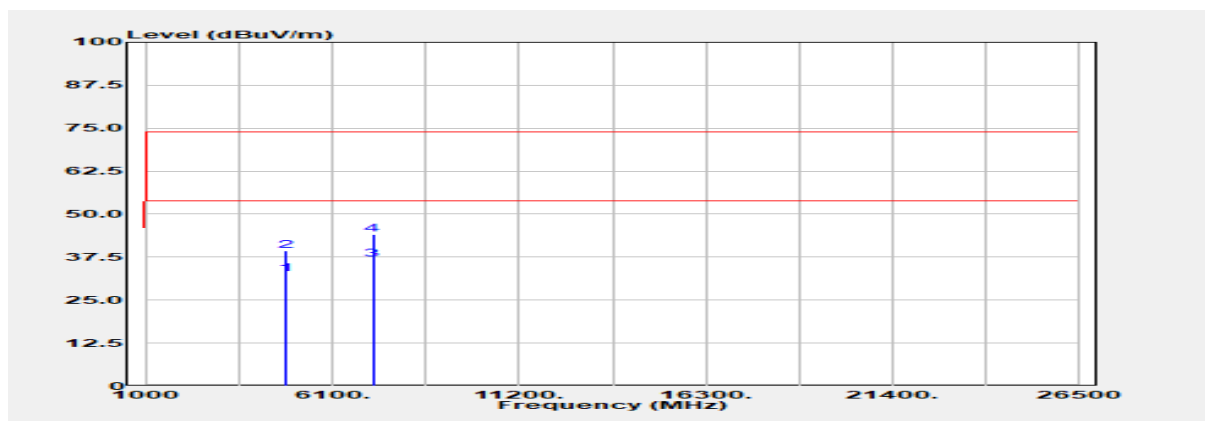
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Report Number :E2/2021/30016  
 Operation Mode :BT EDR  
 Test Frequency :2402 MHz  
 Test Mode :TX CH LOW  
 EUT Pol :E1 Plane  
 Ant :NO.7 Monopole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



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	35.71	-3.03	32.68	54.00	-21.32
4804.000	Peak	42.29	-3.03	39.26	74.00	-34.74
7206.000	Average	33.85	2.98	36.83	54.00	-17.17
7206.000	Peak	41.01	2.98	44.00	74.00	-30.00

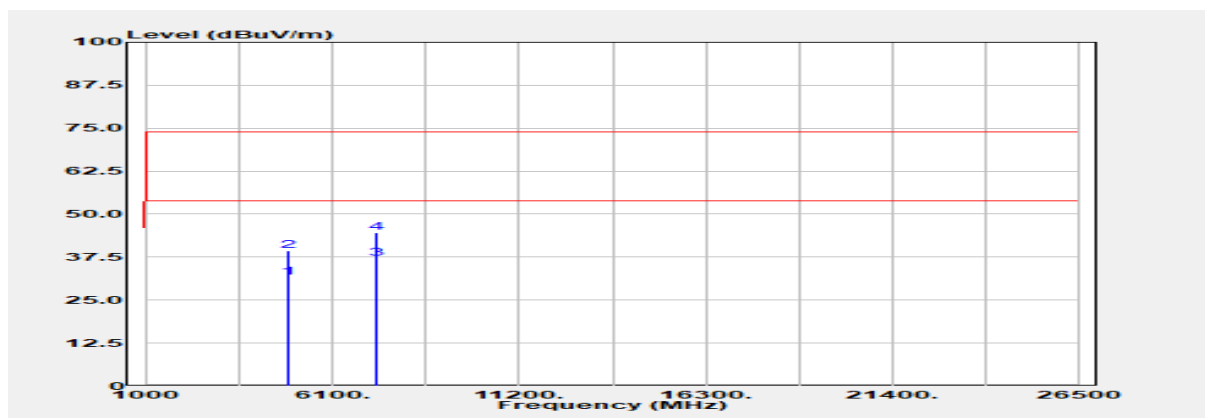
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Report Number :E2/2021/30016  
 Operation Mode :BT EDR  
 Test Frequency :2441 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E1 Plane  
 Ant :NO.7 Monopole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4882.000	Average	34.55	-3.02	31.53	54.00	-22.47
4882.000	Peak	42.42	-3.02	39.40	74.00	-34.60
7323.000	Average	33.77	3.28	37.05	54.00	-16.95
7323.000	Peak	41.38	3.28	44.66	74.00	-29.34

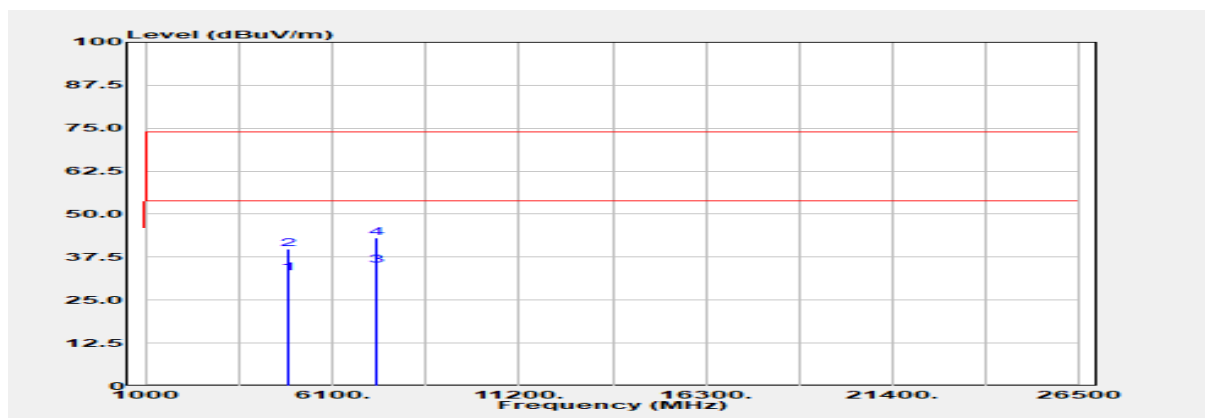
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Report Number :E2/2021/30016  
 Operation Mode :BT EDR  
 Test Frequency :2441 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E1 Plane  
 Ant :NO.7 Monopole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4882.000	Average	35.88	-3.02	32.86	54.00	-21.14
4882.000	Peak	42.95	-3.02	39.93	74.00	-34.07
7323.000	Average	31.69	3.28	34.97	54.00	-19.03
7323.000	Peak	39.80	3.28	43.08	74.00	-30.92

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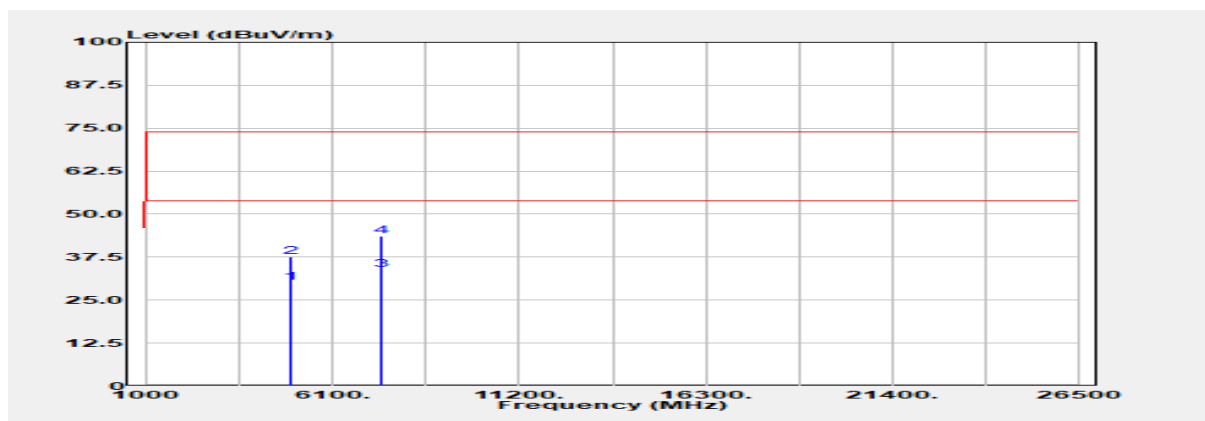
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Report Number :E2/2021/30016  
 Operation Mode :BT EDR  
 Test Frequency :2480 MHz  
 Test Mode :TX CH HIGH  
 EUT Pol :E1 Plane  
 Ant :NO.7 Monopole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4960.000	Average	32.85	-2.89	29.96	54.00	-24.04
4960.000	Peak	40.41	-2.89	37.52	74.00	-36.48
7440.000	Average	30.22	3.65	33.87	54.00	-20.13
7440.000	Peak	39.98	3.65	43.63	74.00	-30.37

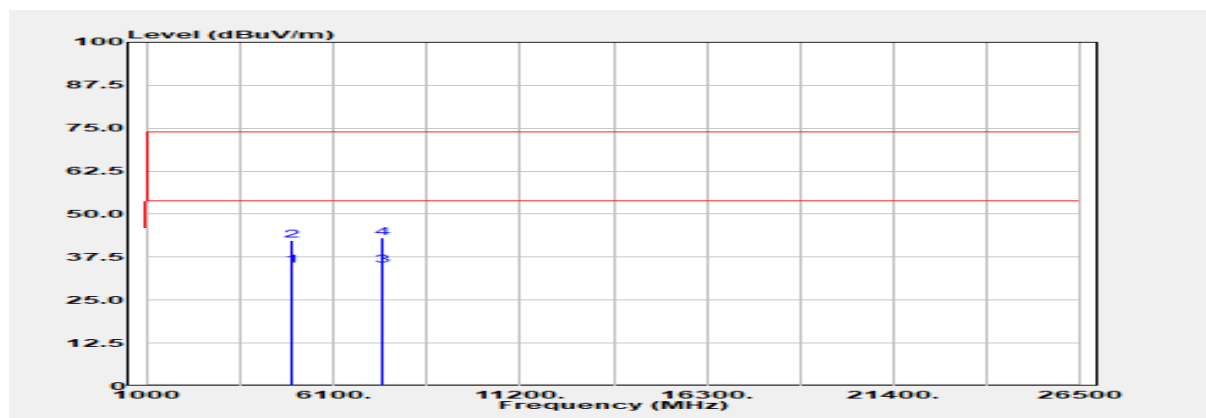
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Report Number :E2/2021/30016  
Operation Mode :BT EDR  
Test Frequency :2480 MHz  
Test Mode :TX CH HIGH  
EUT Pol :E1 Plane  
Ant :NO.7 Monopole

Test Site :966 Chamber D  
Test Date :2021-07-19  
Temp./Humi. :23.5/60  
Antenna Pol. :Horizontal  
Engineer :Jack Tseng



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	37.88	-2.89	34.99	54.00	-19.01
4960.000	Peak	45.15	-2.89	42.26	74.00	-31.74
7440.000	Average	31.52	3.65	35.17	54.00	-18.83
7440.000	Peak	39.47	3.65	43.12	74.00	-30.88

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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

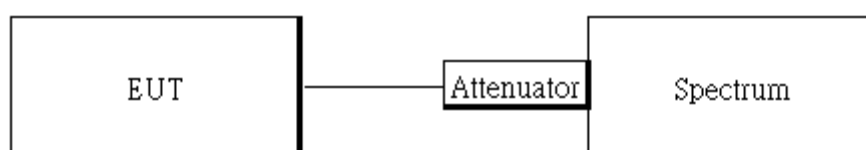
Conducted Emission Test Site: Conducted A					
EQUIPMENT TYPE	MFR/BRAND	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071573	06/26/2020	06/25/2021
DC Power Supply	Agilent	E3640A	MY53130054	09/07/2020	09/06/2021
Attenuator	Marvelous	MVE2213-10	RF09	11/19/2020	11/18/2021
DC Block	PASTERNAK	PE8210	RF151	11/19/2020	11/18/2021

Conducted Emission Test Site: Conducted G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	04/06/2021	04/05/2022
DC Power Supply	Gwinstek	SPS-3610	GEV856769	08/04/2021	08/03/2022
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R

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

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown above indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.

### 11.3 Test Set-up



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## 11.5 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.

## 11.6 Measurement Result

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

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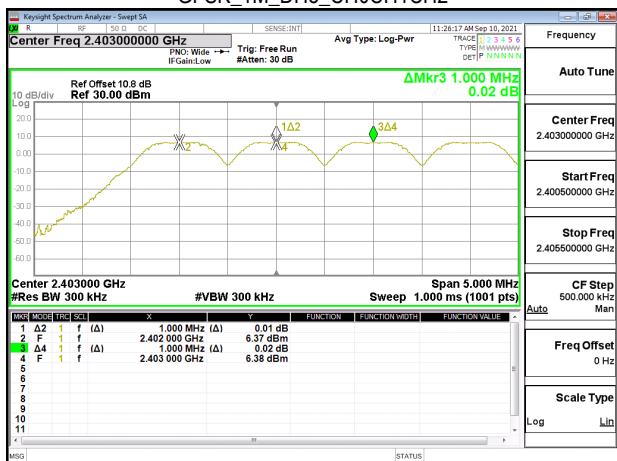
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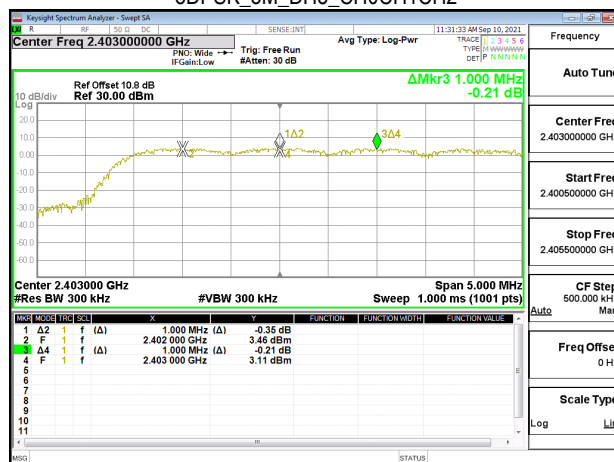
## 11.7 Frequency Separation Test Plots

### 11.7.1 DANT

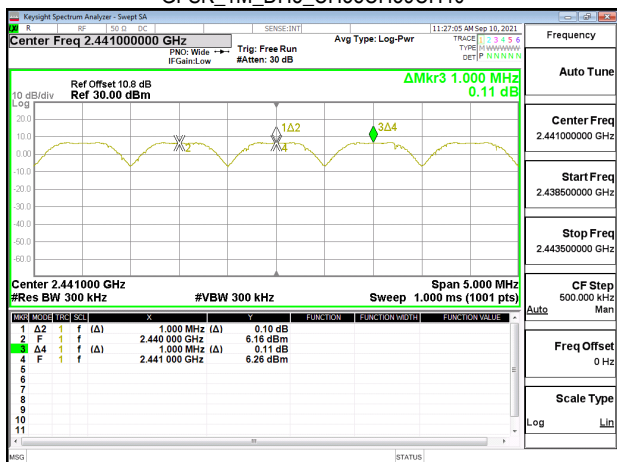
GFSK\_1M\_DH5\_CH0CH1CH2



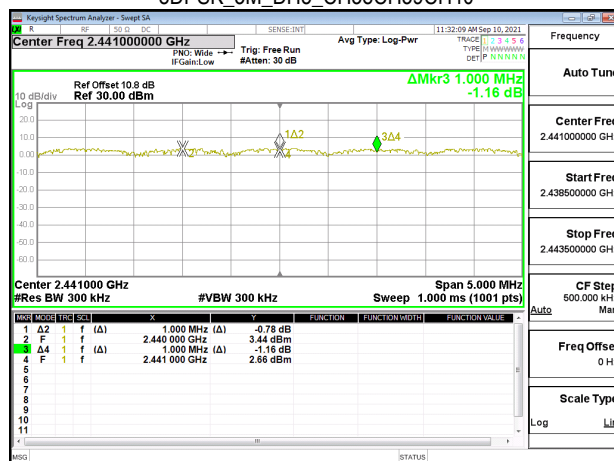
8DPSK\_3M\_DH5\_CH0CH1CH2



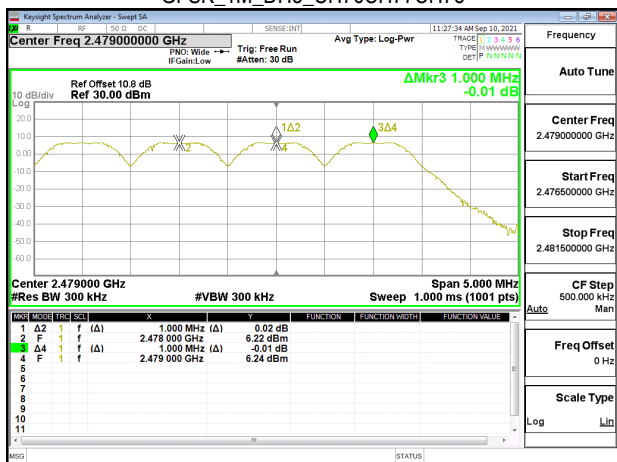
GFSK\_1M\_DH5\_CH38CH39CH40



8DPSK\_3M\_DH5\_CH38CH39CH40



GFSK\_1M\_DH5\_CH76CH77CH78



8DPSK\_3M\_DH5\_CH76CH77CH78

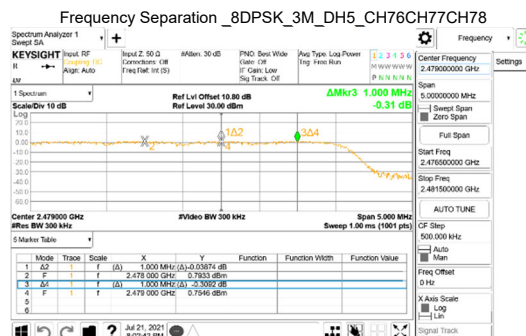
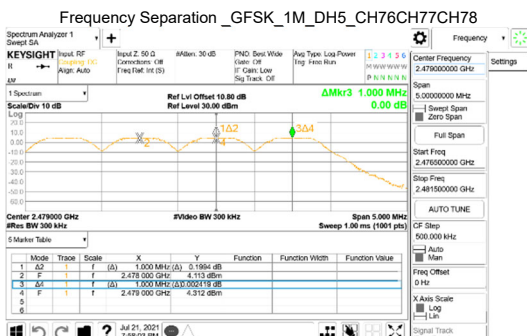
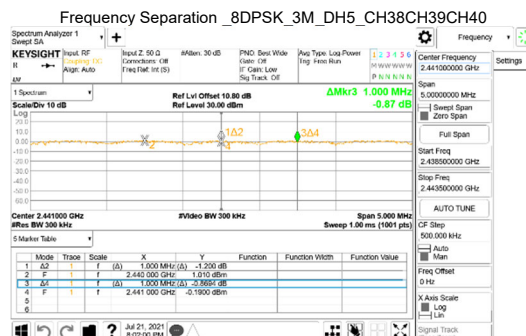
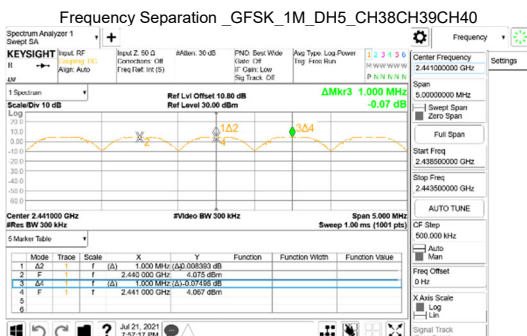
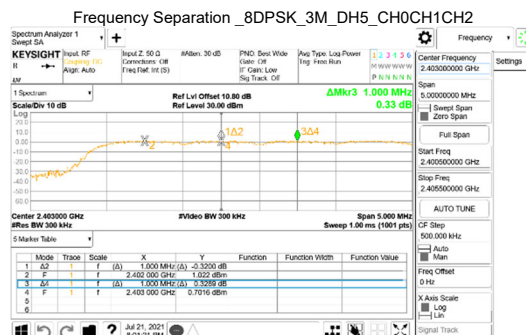
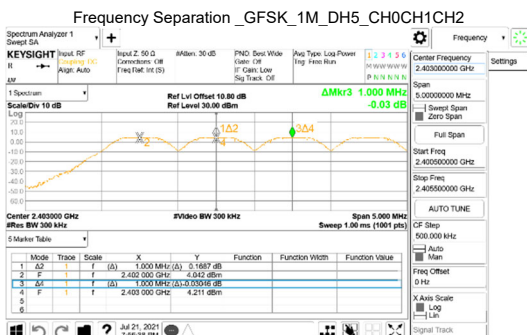


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## 11.7.2 SANT



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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

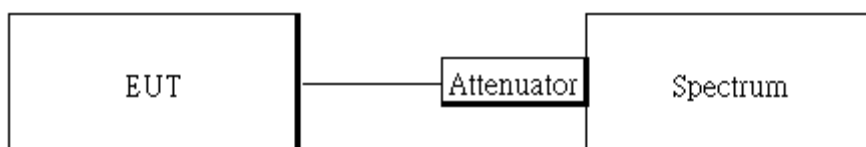
Conducted Emission Test Site: Conducted A					
EQUIPMENT TYPE	MFR/BRAND	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071573	06/26/2020	06/25/2021
DC Power Supply	Agilent	E3640A	MY53130054	09/07/2020	09/06/2021
Attenuator	Marvelous	MVE2213-10	RF09	11/19/2020	11/18/2021
DC Block	PASTERNAK	PE8210	RF151	11/19/2020	11/18/2021

Conducted Emission Test Site: Conducted G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	04/06/2021	04/05/2022
DC Power Supply	Gwinstek	SPS-3610	GEV856769	08/04/2021	08/03/2022
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R

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

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown above indicate those equipment of which has been subject to under-take the calibration in intermediate period of time of the measurement.

### 12.3 Test Set-up



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## 12.5 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
6. RBW=430kHz, VBW=1.5MHz., De-tector = Peak
7. Max hold, view and count how many channel in the band.

## 12.6 Measurement Result

### Tabular Data of Total Channel Number

	<i>Channel Number</i>	<i>Limit</i>
<b>2.4 GHz – 2.441 GHz</b>	<b>40</b>	<b>&gt;15</b>
<b>2.441 GHz – 2.4835 GHz</b>	<b>39</b>	
<b>2.4 GHz ~2.4835 GHz</b>	<b>(40+39) = 79</b>	

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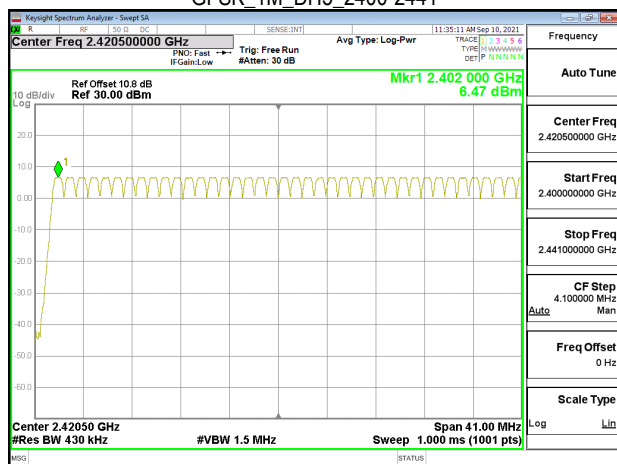
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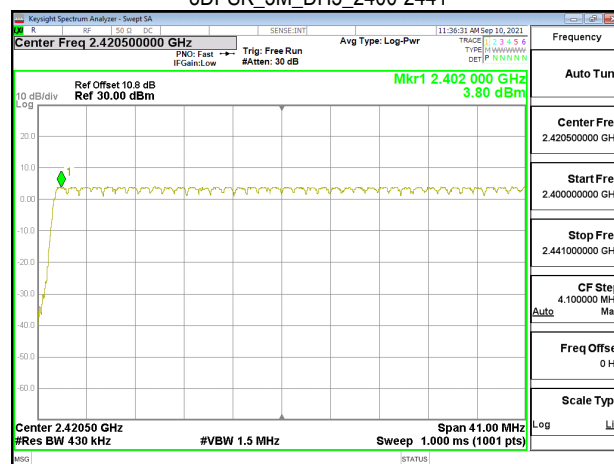
## 12.7 Channel Number Test Plots

### 12.7.1 DANT

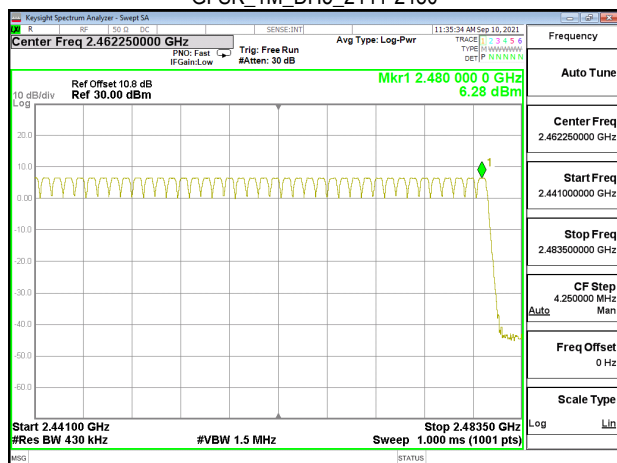
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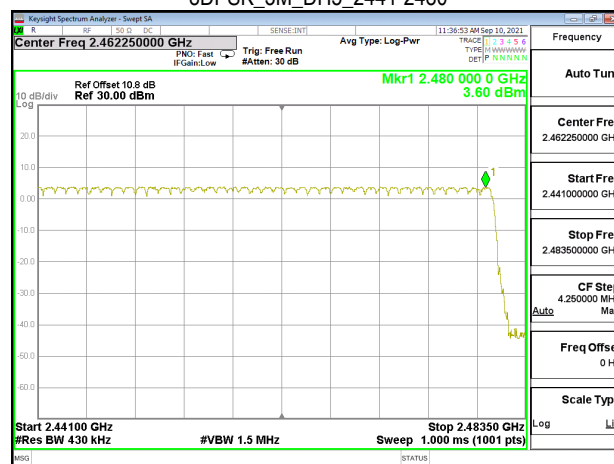
8DPSK\_3M\_DH5\_2400-2441



GFSK\_1M\_DH5\_2441-2480



8DPSK\_3M\_DH5\_2441-2480



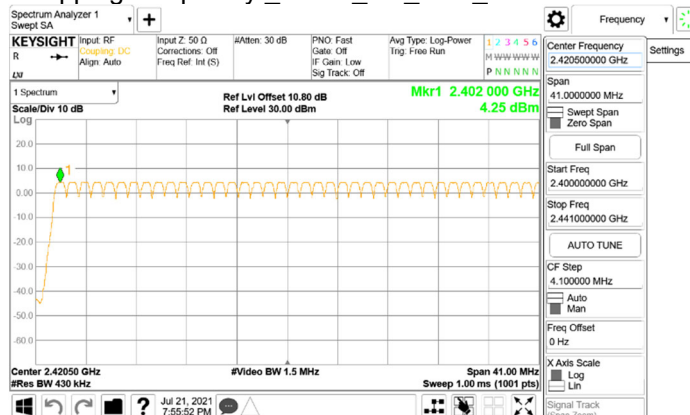
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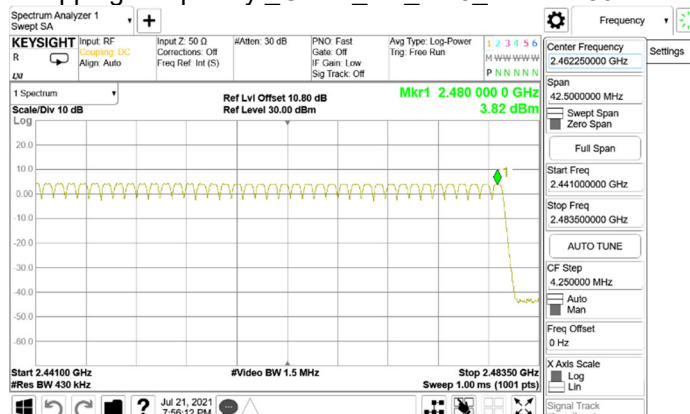
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## 12.7.2 SANT

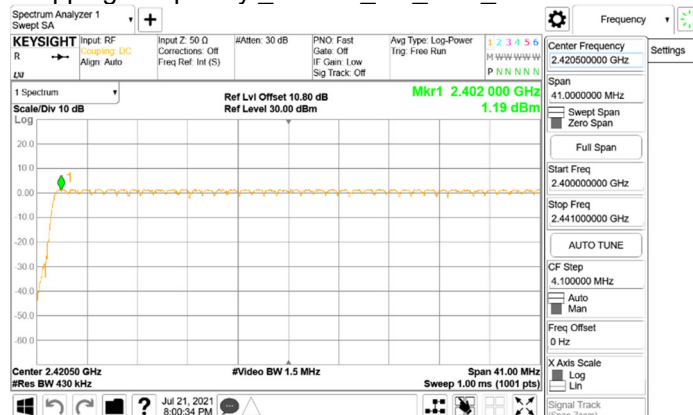
### Hopping Frequency \_GFSK\_1M\_DH5\_2400-2441



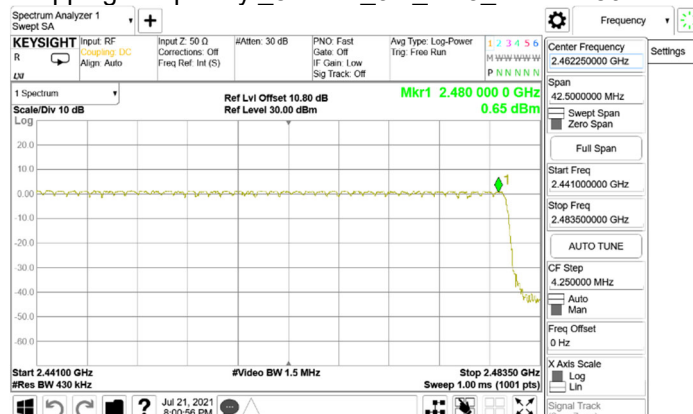
### Hopping Frequency \_GFSK\_1M\_DH5\_2441-2480



### Hopping Frequency \_8DPSK\_3M\_DH5\_2400-2441



### 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

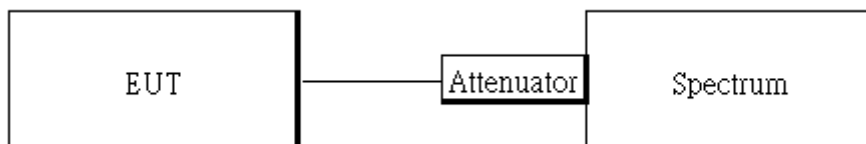
Conducted Emission Test Site: Conducted A					
EQUIPMENT TYPE	MFR/BRAND	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071573	06/26/2020	06/25/2021
DC Power Supply	Agilent	E3640A	MY53130054	09/07/2020	09/06/2021
Attenuator	Marvelous	MVE2213-10	RF09	11/19/2020	11/18/2021
DC Block	PASTERNAK	PE8210	RF151	11/19/2020	11/18/2021

Conducted Emission Test Site: Conducted G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	04/06/2021	04/05/2022
DC Power Supply	Gwinstek	SPS-3610	GEV856769	08/04/2021	08/03/2022
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R

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

*Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown above indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.*

### 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

#### 13.5.1 DANT

##### GFSK (1Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)	VBW setting (kHz)
Mid	DH1	123.20	400ms	3.00
	DH3	262.40	400ms	1.00
	DH5	308.80	400ms	1.00

##### $\pi/4$ DQPSK (2Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)	VBW setting (kHz)
Mid	2DH1	123.20	400ms	3.00
	2DH3	262.40	400ms	1.00
	2DH5	307.20	400ms	1.00

##### 8-DPSK (3Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)	VBW setting (kHz)
Mid	3DH1	123.20	400ms	3.00
	3DH3	262.40	400ms	1.00
	3DH5	307.20	400ms	1.00

NOTE: cable loss as 10.8dB that offsets in the spectrum

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**GFSK (1Mbps):**

CH Mid	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	=	2.895	*	(1600/6/79)	*	31.6	=	308.80	(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	=	1.640	*	(1600/4/79)	*	31.6	=	262.40	(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	154.40	400
$\pi/4$ DQPSK (2Mbps) for AFH Mode			
Hopping Channel Number	PACKET TYPE	Measurement Result (ms)	Limit (ms)
20	2DH5	153.60	400
8-DPSK (3Mbps) for AFH Mode			
Hopping Channel Number	PACKET TYPE	Measurement Result (ms)	Limit (ms)
20	3DH5	153.60	400

### 13.6 Measurement Result

Note: Refer to next page for plots.

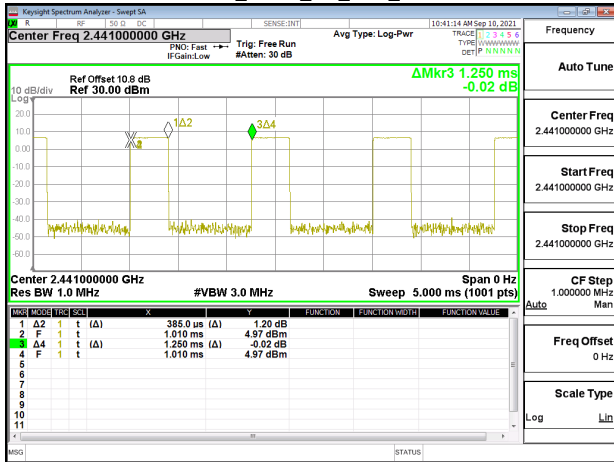
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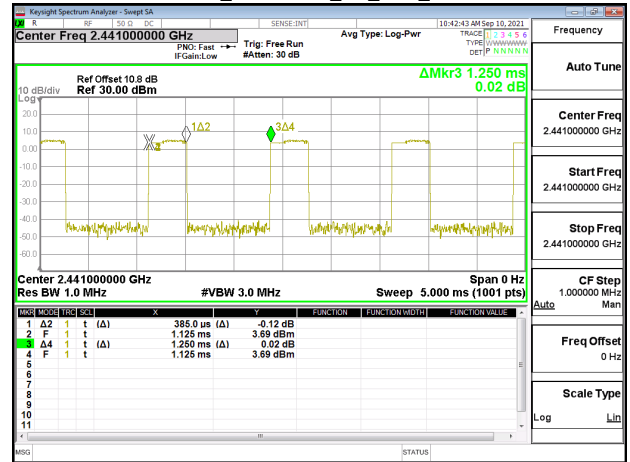
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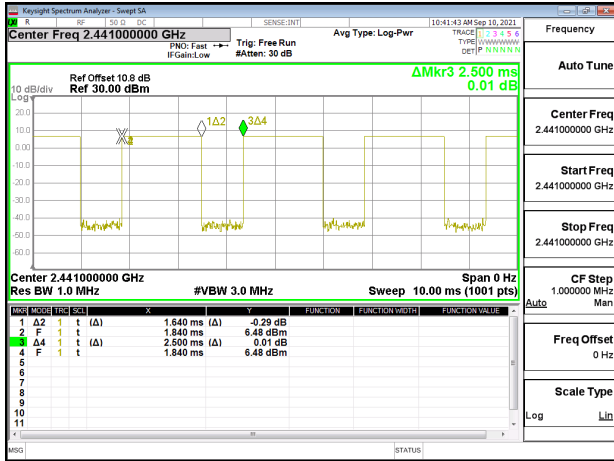
Dwell Time\_GFSK\_1M\_DH1\_2441MHz



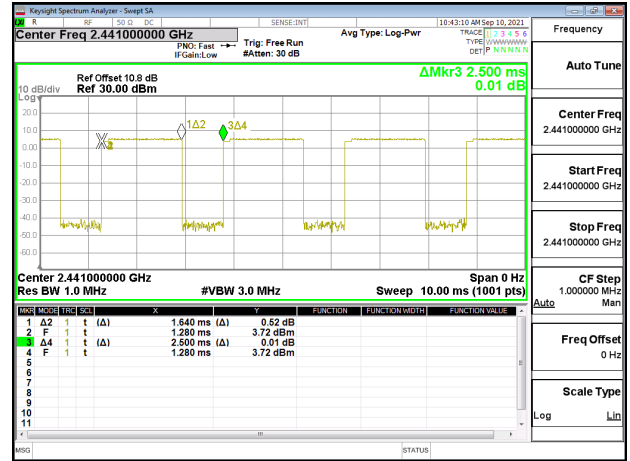
Dwell Time\_π/4DQPSK\_2M\_DH5\_2441MHz



Dwell Time\_GFSK\_1M\_DH3\_2441MHz



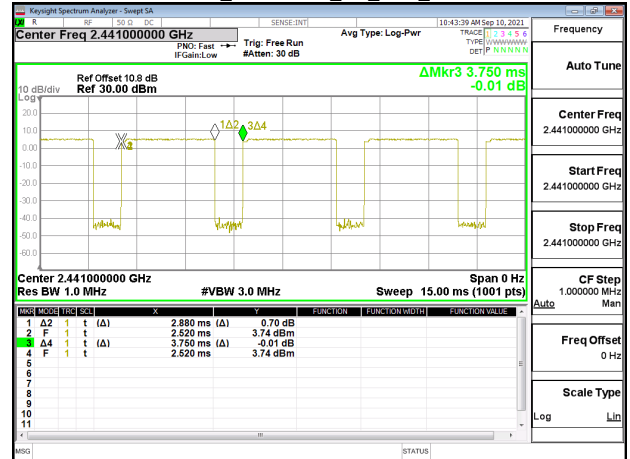
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Dwell Time\_GFSK\_1M\_DH5\_2441MHz



Dwell Time\_π/4DQPSK\_2M\_DH5\_2441MHz



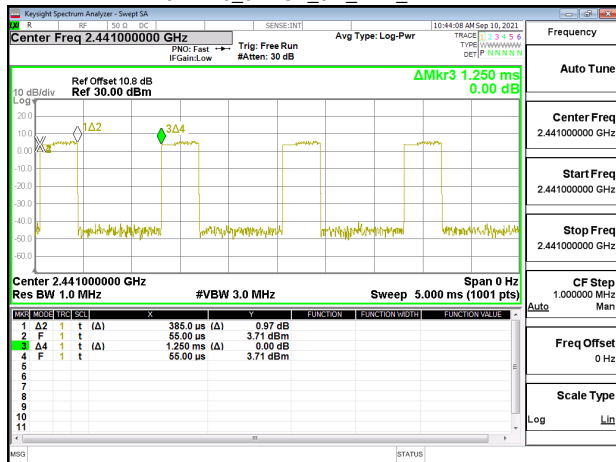
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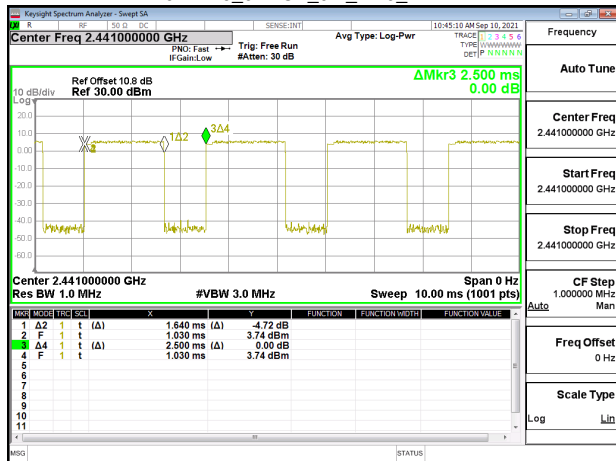
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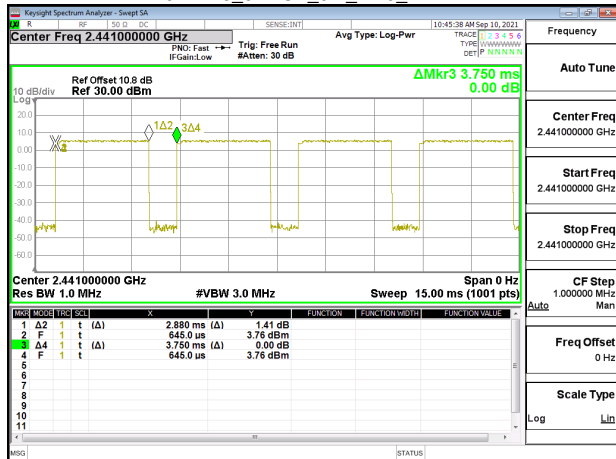
Dwell Time\_8DPSK\_3M\_DH1\_2441MHz



Dwell Time\_8DPSK\_3M\_DH3\_2441MHz



Dwell Time\_8DPSK\_3M\_DH5\_2441MHz



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### 13.6.1 SANT

#### GFSK (1Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)	VBW setting (kHz)
Mid	DH1	123.20	400ms	3.00
	DH3	262.40	400ms	1.00
	DH5	308.80	400ms	1.00

#### $\pi/4$ DQPSK (2Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)	VBW setting (kHz)
Mid	2DH1	123.20	400ms	3.00
	2DH3	262.40	400ms	1.00
	2DH5	308.80	400ms	1.00

#### 8-DPSK (3Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)	VBW setting (kHz)
Mid	3DH1	124.80	400ms	3.00
	3DH3	262.40	400ms	1.00
	3DH5	308.80	400ms	1.00

NOTE: cable loss as 10.8dB that offsets in the spectrum

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**GFSK (1Mbps):**

CH Mid	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	=	2.895	*	(1600/6/79)	*	31.6	=	308.80 (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	=	2.895	*	(1600/6/79)	*	31.6	=	308.80 (ms)

**8-DPSK (3Mbps):**

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

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

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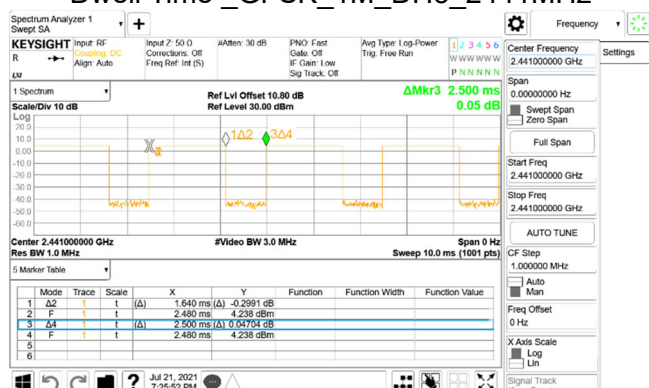
## Dwell Time \_GFSK\_1M\_DH1\_2441MHz



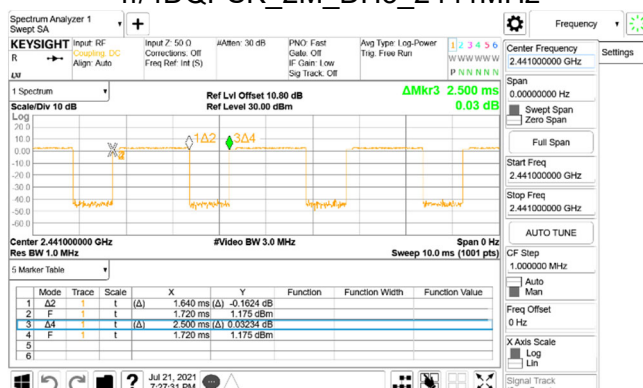
## Dwell Time \_π/4DQPSK\_2M\_DH1\_2441MHz



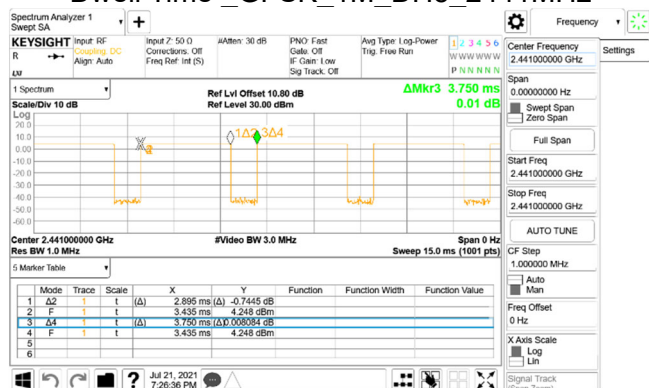
## Dwell Time \_GFSK\_1M\_DH3\_2441MHz



## π/4DQPSK\_2M\_DH3\_2441MHz



## Dwell Time \_GFSK\_1M\_DH5\_2441MHz



## Dwell Time \_π/4DQPSK\_2M\_DH5\_2441MHz

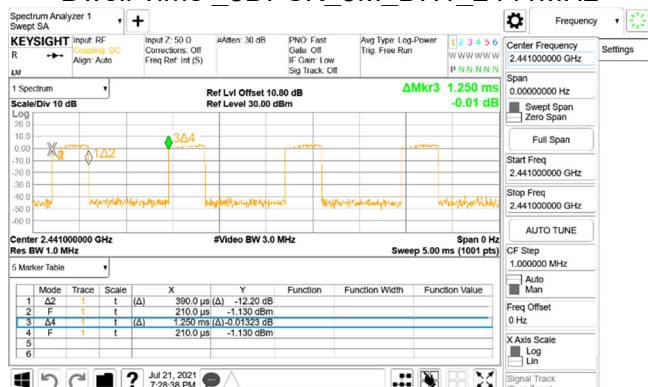


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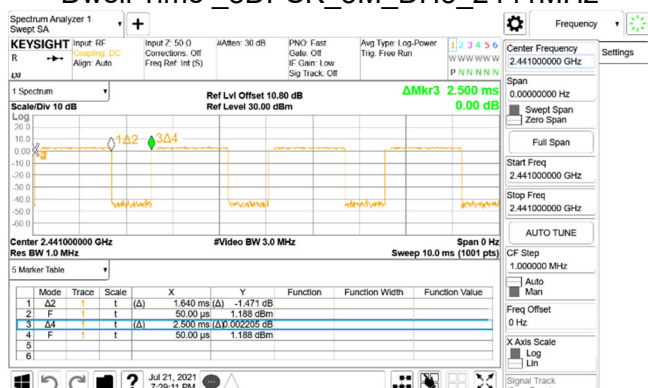
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## Dwell Time\_8DPSK\_3M\_DH1\_2441MHz



## 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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