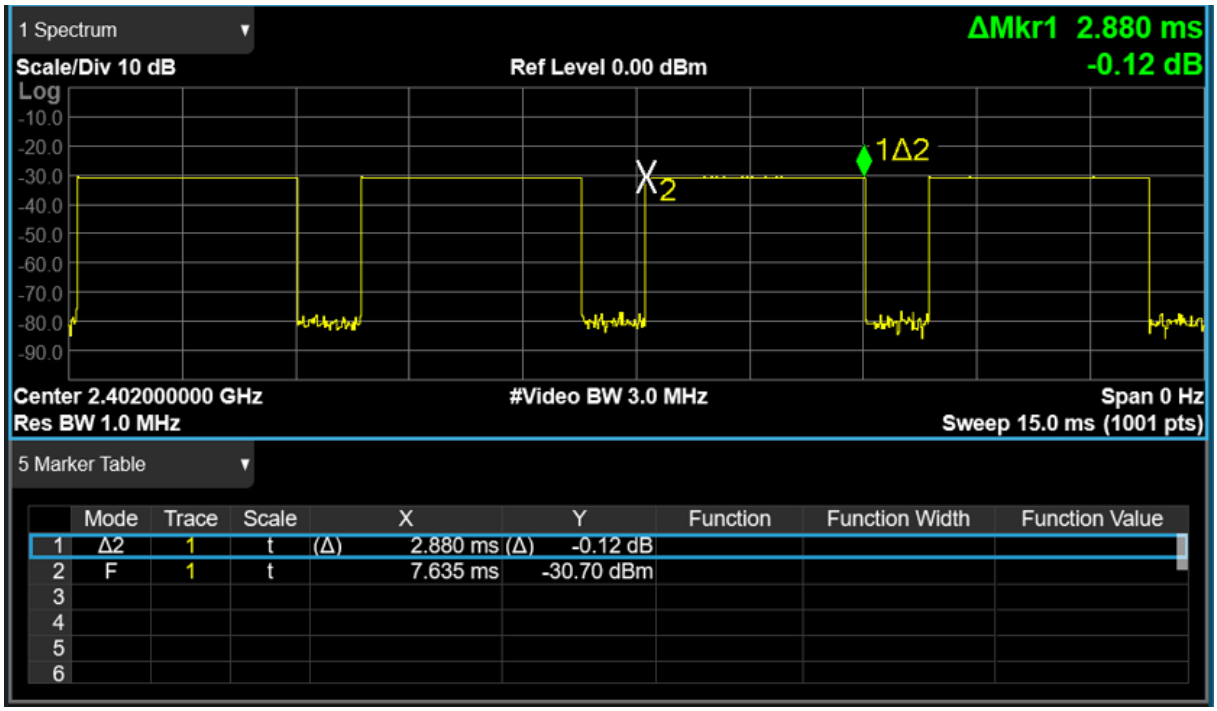
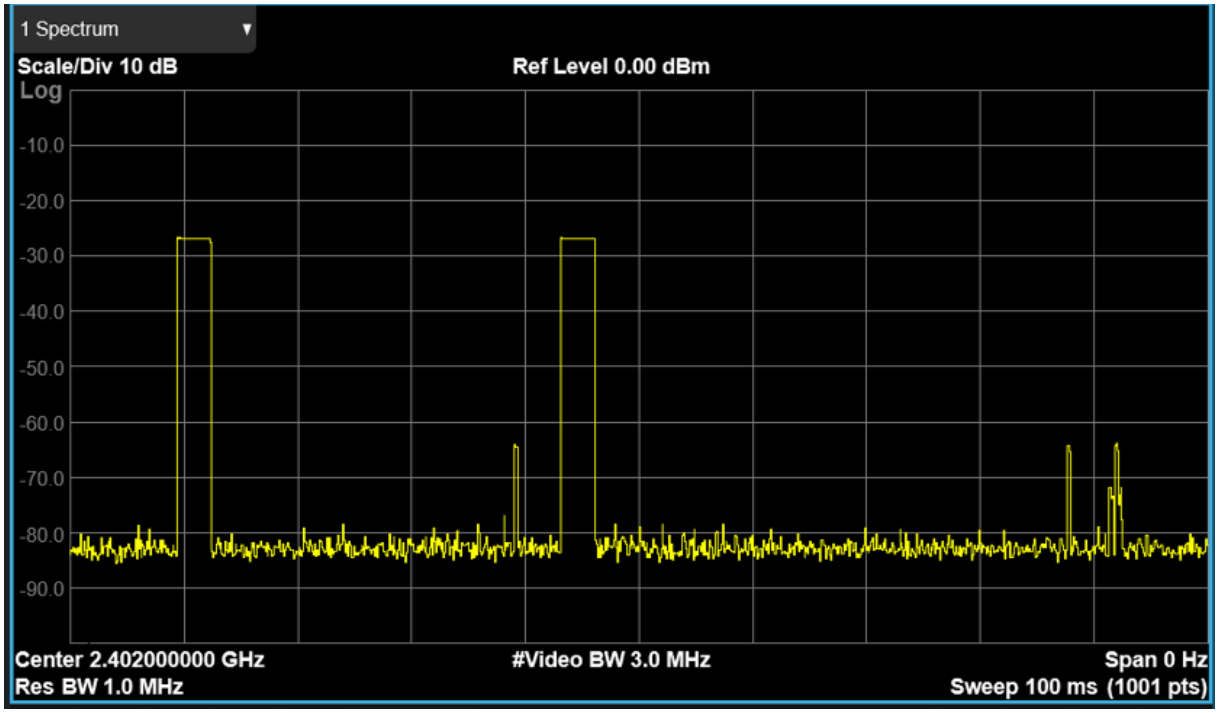
Duty cycle correction factor





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Left

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.004	0.932	>=0.932	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.302	>=0.868	Pass
8DPSK	SISO	HOPP	3DH5	0.982	1.302	>=0.868	Pass

Right

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	0.990	0.931	>=0.931	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.358	>=0.905	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.348	>=0.899	Pass

FCC BT DH5 Band edge and RSE TX Worse

Left

	Hopping number	On time(ms)	Duty cycle(%)	Correction factor									
				Bandedge	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
DH5	2	2.88	0.06	-24.79	-24.79	-24.79	-24.79	-24.79	-24.79	-24.79	-24.79	-24.79	-24.79

Right

	Hopping number	On time(ms)	Duty cycle(%)	Correction factor									
				Bandedge	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
DH5	2	2.88	0.06	-24.71	-30.73	-34.24	-36.73	-38.68	-40.29	-41.62	-42.78	-43.81	-44.71

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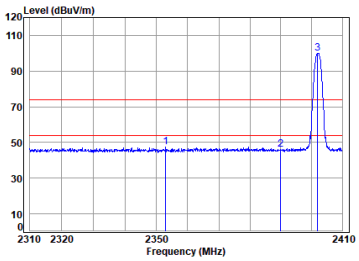
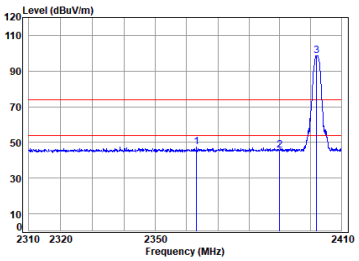
Left BT_DH5_TX_CH_00_Horizontal




```
Condition: 3m HORIZONTAL
Job No    : 00043AT\00044AT
Mode      : 2402 Band edge
          : BT
```

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2352.980	4.86	27.19	32.98	48.35	47.42	74.00	-26.58	Peak	0.00
2	2390.000	4.86	27.12	32.96	47.03	46.05	74.00	-27.95	Peak	0.00
3 pp	2402.000	4.86	27.12	32.95	100.79	99.82	74.00	25.82	Peak	0.00

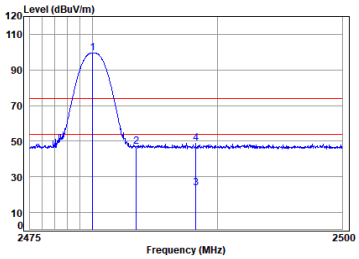
Left BT_DH5_TX_CH_00_Vertical




```
Condition: 3m VERTICAL
Job No    : 00043AT\00044AT
Mode      : 2402 Band edge
          : BT
```

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2363.173	4.86	27.17	32.98	48.53	47.58	74.00	-26.42	Peak	0.00
2	2390.000	4.86	27.12	32.96	46.55	45.57	74.00	-28.43	Peak	0.00
3 pp	2402.000	4.86	27.12	32.95	99.58	98.61	74.00	24.61	Peak	0.00

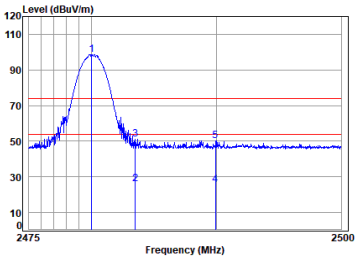
Left BT_DH5_TX_CH_78_Horizontal




```
Condition: 3m HORIZONTAL
Job No    : 00043AT\00044AT
Mode      : 2480 Band edge
          : BT
```

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	2480.000	4.84	27.68	32.91	99.78	99.39	74.00	25.39	Peak	0.00
2	2483.500	4.84	27.70	32.91	47.40	47.03	74.00	-26.97	Peak	0.00
3 av	2488.244	4.84	27.73	32.91	24.25	23.91	54.00	-30.09	Average	0.00
4	2488.244	4.84	27.73	32.91	49.04	48.70	74.00	-25.30	Peak	0.00

Left BT_DH5_TX_CH_78_Vertical




```
Condition: 3m VERTICAL
Job No    : 00043AT\00044AT
Mode      : 2480 Band edge
          : BT
```

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	2480.000	4.84	27.68	32.91	99.04	98.65	74.00	24.65	Peak	0.00
2 av	2483.500	4.84	27.70	32.91	26.60	26.23	54.00	-27.77	Average	0.00
3	2483.500	4.84	27.70	32.91	51.39	51.02	74.00	-22.98	Peak	0.00
4	2489.920	4.84	27.74	32.91	25.93	25.60	54.00	-28.40	Average	0.00
5	2489.920	4.84	27.74	32.91	50.72	50.39	74.00	-23.61	Peak	0.00

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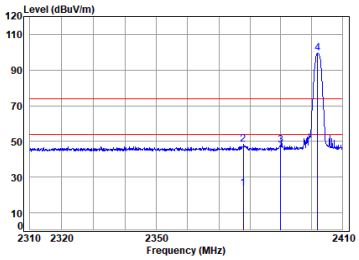
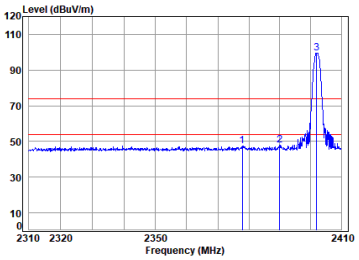
Right BT_DH5_TX_CH_00_Horizontal



Condition: 3m HORIZONTAL
Job No : 00043AT\00044AT
Mode : 2402 Band edge
: BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 av	2377.941	4.86	27.14	32.97	24.75	23.78	54.00	-30.22	Average	0.00
2	2377.941	4.86	27.14	32.97	49.46	48.49	74.00	-25.51	Peak	0.00
3	2390.000	4.86	27.12	32.96	48.74	47.76	74.00	-26.24	Peak	0.00
4 pp	2402.000	4.86	27.12	32.95	100.33	99.36	74.00	25.36	Peak	0.00

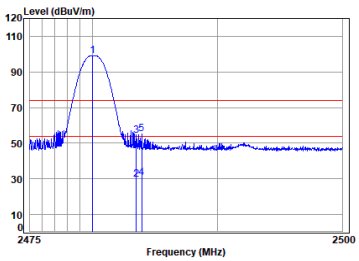
Right BT_DH5_TX_CH_00_Vertical



Condition: 3m VERTICAL
Job No : 00043AT\00044AT
Mode : 2402 Band edge
: BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2377.941	4.86	27.14	32.97	48.61	47.64	74.00	-26.36	Peak	0.00
2	2390.000	4.86	27.12	32.96	48.80	47.82	74.00	-26.18	Peak	0.00
3 pp	2402.000	4.86	27.12	32.95	100.39	99.42	74.00	25.42	Peak	0.00

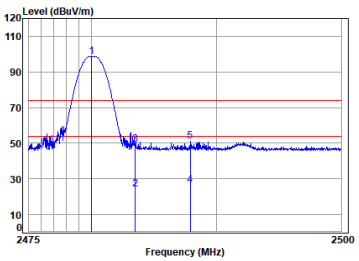
Right BT_DH5_TX_CH_78_Horizontal



Condition: 3m HORIZONTAL
Job No : 00043AT\00044AT
Mode : 2480 Band edge
: BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	2480.000	4.84	27.68	32.91	99.58	99.19	74.00	25.19	Peak	0.00
2	2483.500	4.84	27.70	32.91	29.92	29.55	54.00	-24.45	Average	0.00
3	2483.500	4.84	27.70	32.91	54.63	54.26	74.00	-19.74	Peak	0.00
4 av	2483.921	4.84	27.70	32.91	30.76	30.39	54.00	-23.61	Average	0.00
5	2483.921	4.84	27.70	32.91	55.47	55.10	74.00	-18.90	Peak	0.00

Right BT_DH5_TX_CH_78_Vertical



Condition: 3m VERTICAL
Job No : 00043AT\00044AT
Mode : 2480 Band edge
: BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	2480.000	4.84	27.68	32.91	99.16	98.77	74.00	24.77	Peak	0.00
2	2483.500	4.84	27.70	32.91	24.76	24.39	54.00	-29.61	Average	0.00
3	2483.500	4.84	27.70	32.91	49.47	49.10	74.00	-24.90	Peak	0.00
4 av	2487.894	4.84	27.73	32.91	26.64	26.30	54.00	-27.70	Average	0.00
5	2487.894	4.84	27.73	32.91	51.35	51.01	74.00	-22.99	Peak	0.00

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7.3 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2020) Section 6.4,6.5
Measurement Distance: 3m
Test Engineer: Rex Liu

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

Note

1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

2. At frequencies below 1GHz, measurements may be performed at a distance different to specified in the regulations.

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Below 30MHz, Aux Factor = 40 dB/decade of distance, the aux factor is 40log(3/300) = -80dB (for 3m test distance).

EX. Above 30MHz, Aux Factor = 20 dB/decade of distance, the aux factor is 20log(10/3) = 10.46dB (for 10m test distance).

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C Humidity: 52.6 % RH Atmospheric Pressure: 1000 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX(Left buds)_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Pre-scan	01	Charge + TX(Left buds)_non-Hop mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK

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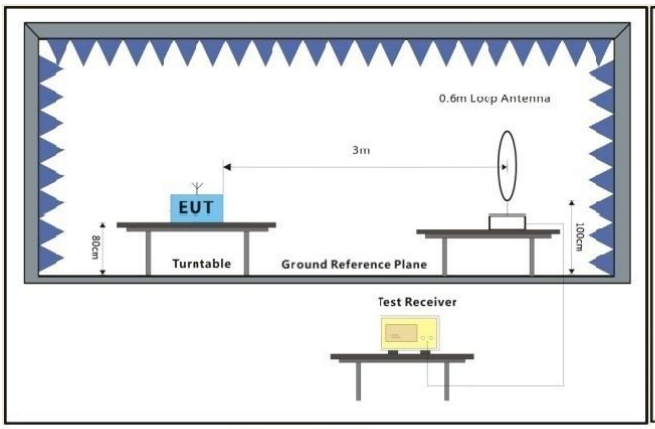
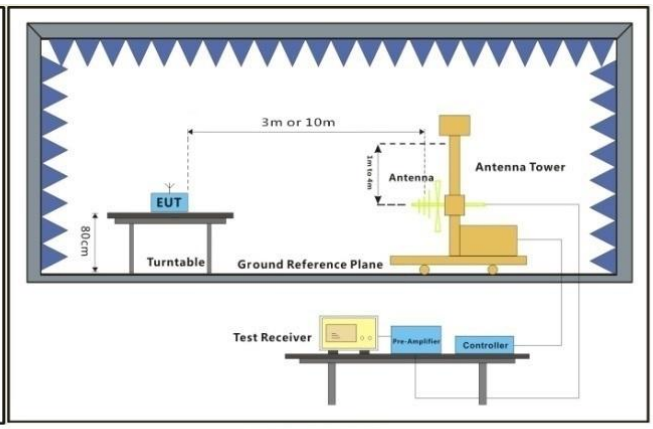
		modulation. All modes have been tested and only the data of worst case is recorded in the report.
Final test	03	TX(Right buds)_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Pre-scan	04	Charge + TX(Right buds)_non-Hop mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



Below 30MHz



30MHz-1GHz

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7.3.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8m above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3m or 10m away from the interference-receiving antenna, which was mounted on the variable-height antenna tower.

c. The antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1m) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

1 Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

2. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the worst-case test curve is displayed.

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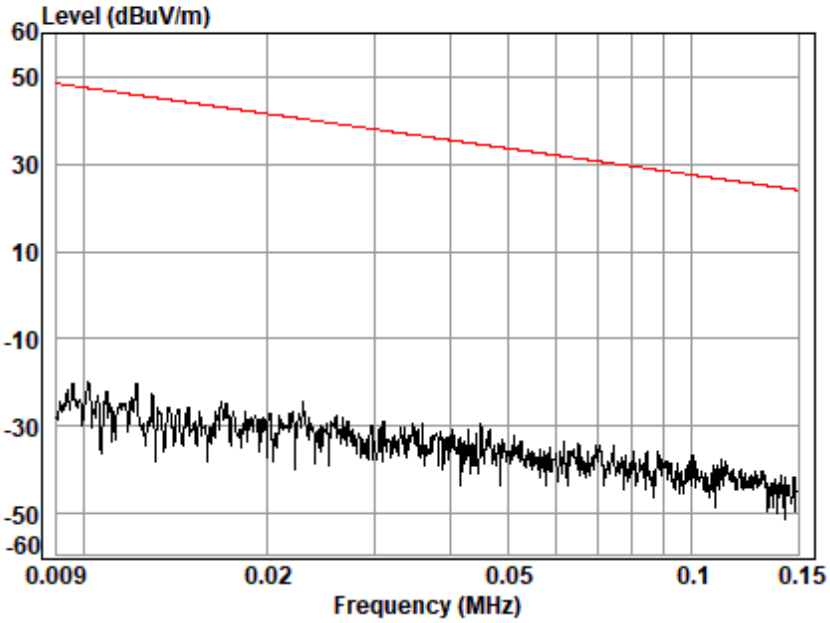
Test Mode: 00

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Site      : chamber
Condition: 3m
Job No.   : 00043AT
Test Mode: 00
          : coaxial
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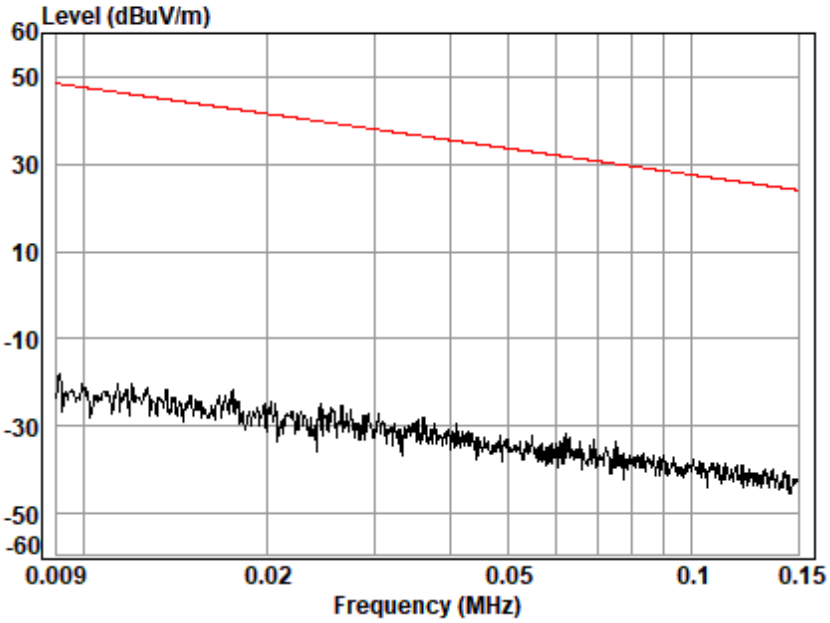


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Site      : chamber
Condition: 3m
Job No.   : 00043AT
Test Mode: 00
          : coplanar
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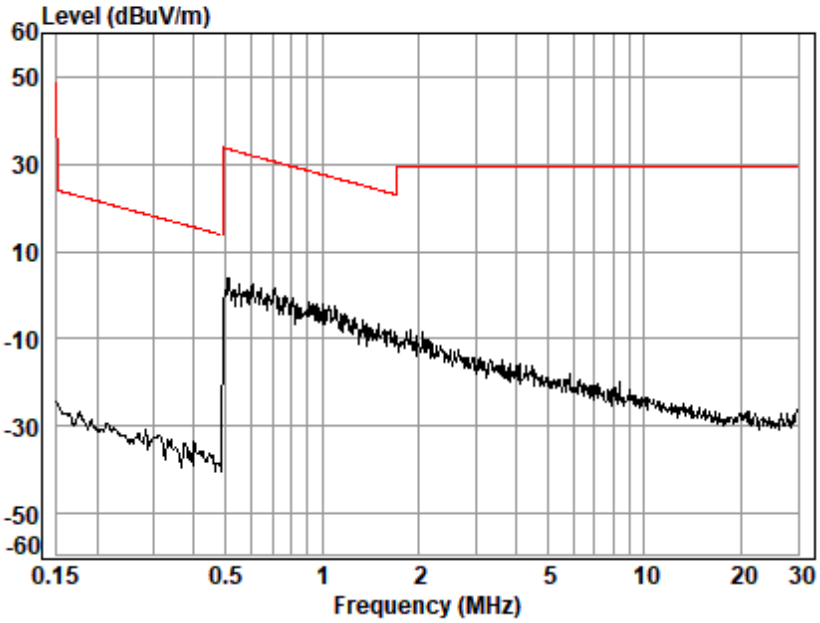


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Site      : chamber
Condition: 3m
Job No.   : 00043AT
Test Mode: 00
          : coaxial
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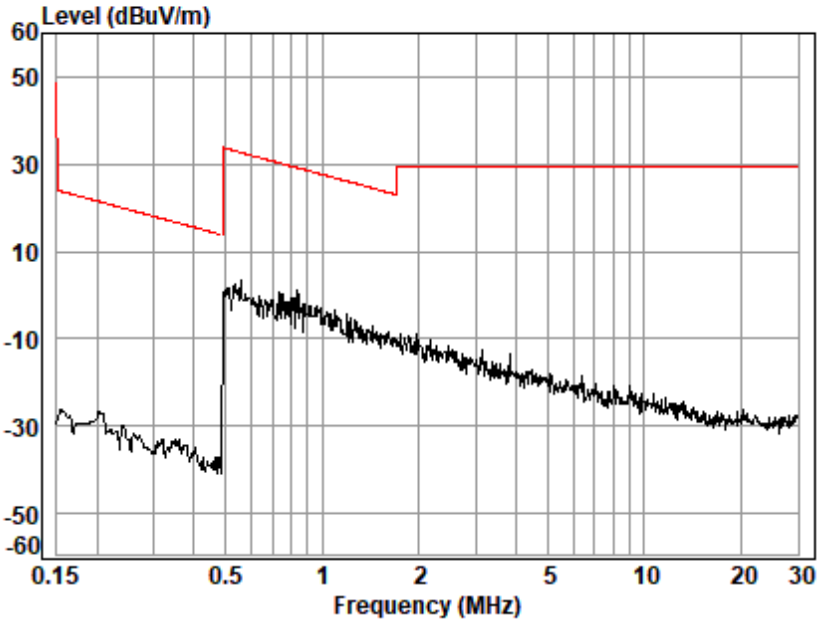


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Site      : chamber
Condition: 3m
Job No.   : 00043AT
Test Mode: 00
          : coplanar
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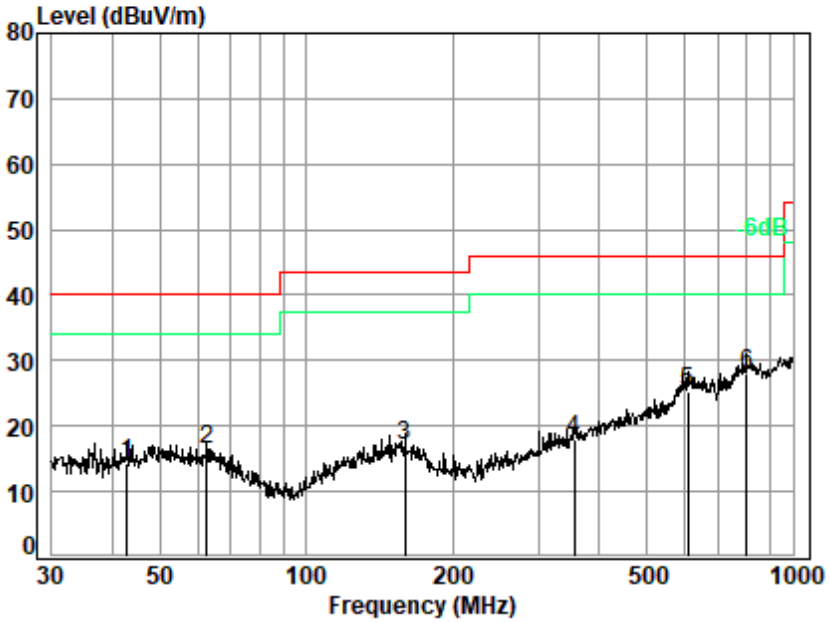

Site : chamber
Condition: 3m HORIZONTAL
Job No : 00043AT/00044AT
Mode : 00

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	42.75	0.43	17.49	26.11	22.61	14.42	40.00	-25.58	QP
2	62.43	0.83	17.00	26.10	24.55	16.28	40.00	-23.72	QP
3	159.78	1.22	17.42	25.60	23.93	16.97	43.50	-26.53	QP
4	355.43	1.45	18.60	25.66	23.44	17.83	46.00	-28.17	QP
5	607.79	3.40	24.21	26.56	24.28	25.33	46.00	-20.67	QP
6	801.79	3.45	26.86	26.50	24.30	28.11	46.00	-17.89	QP

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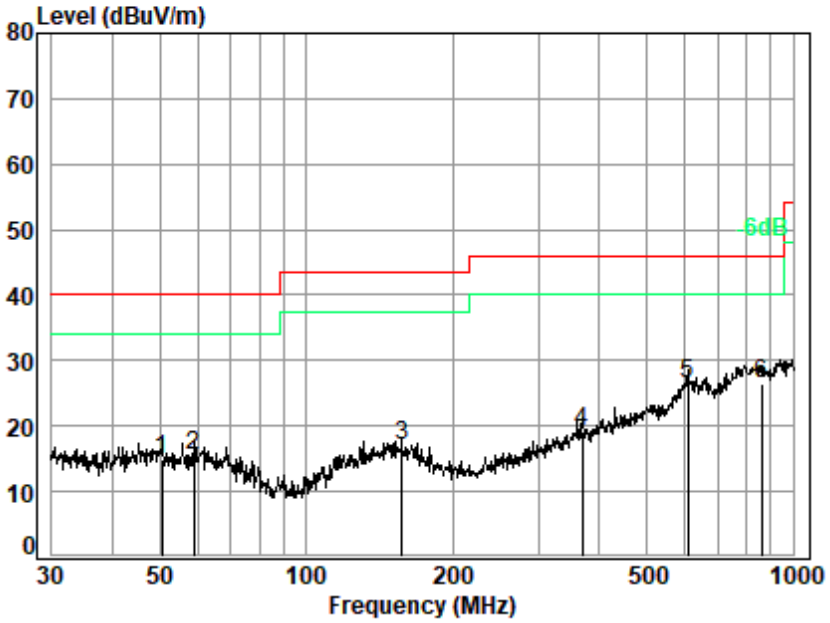

Site : chamber
Condition: 3m VERTICAL
Job No : 00043AT/00044AT
Mode : 00

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	50.59	0.76	17.79	26.10	22.45	14.90	40.00	-25.10	QP
2	58.82	0.68	17.39	26.10	23.56	15.53	40.00	-24.47	QP
3	157.01	1.24	17.45	25.61	23.91	16.99	43.50	-26.51	QP
4	368.11	1.49	18.98	25.76	24.47	19.18	46.00	-26.82	QP
5	607.79	3.40	24.21	26.56	25.40	26.45	46.00	-19.55	QP
6	860.04	2.75	26.82	26.44	23.22	26.35	46.00	-19.65	QP

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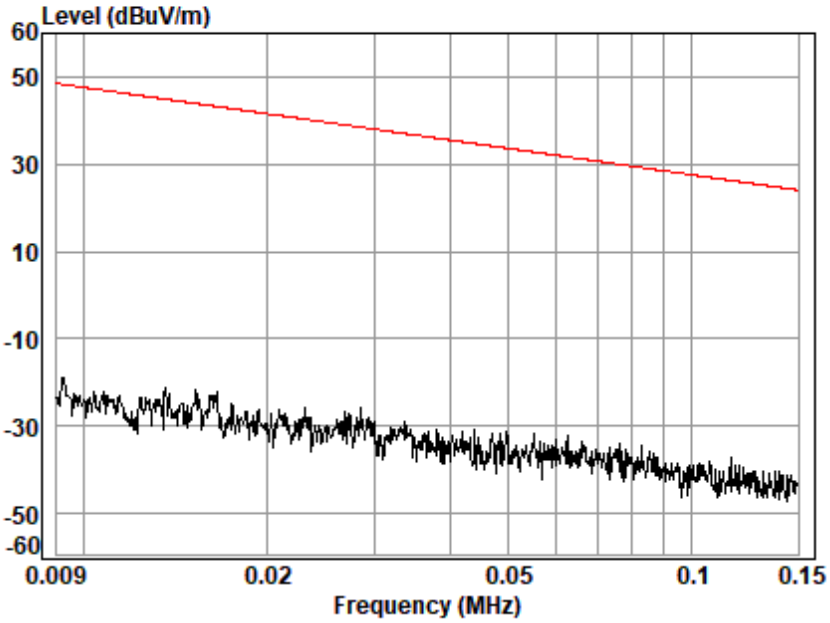


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Site      : chamber
Condition: 3m
Job No.   : 00043AT
Test Mode: 03
          : coaxial
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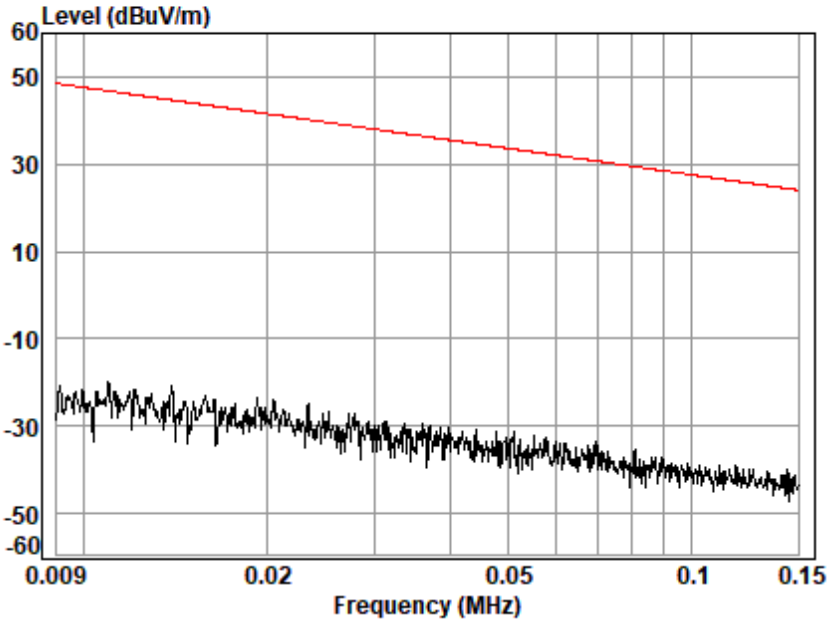


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Site      : chamber
Condition: 3m
Job No.   : 00043AT
Test Mode: 03
          : coplanar
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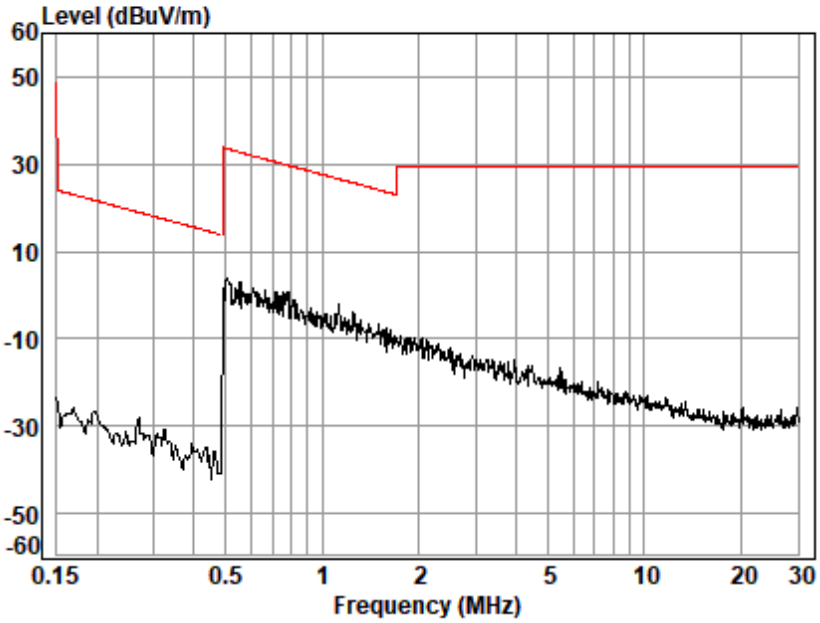


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Site      : chamber
Condition: 3m
Job No.   : 00043AT
Test Mode: 03
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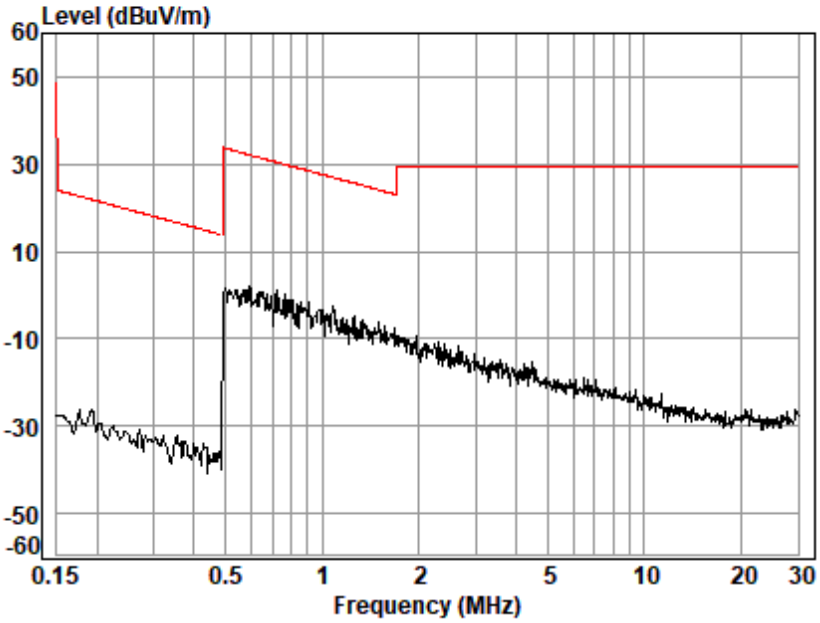


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Site      : chamber
Condition: 3m
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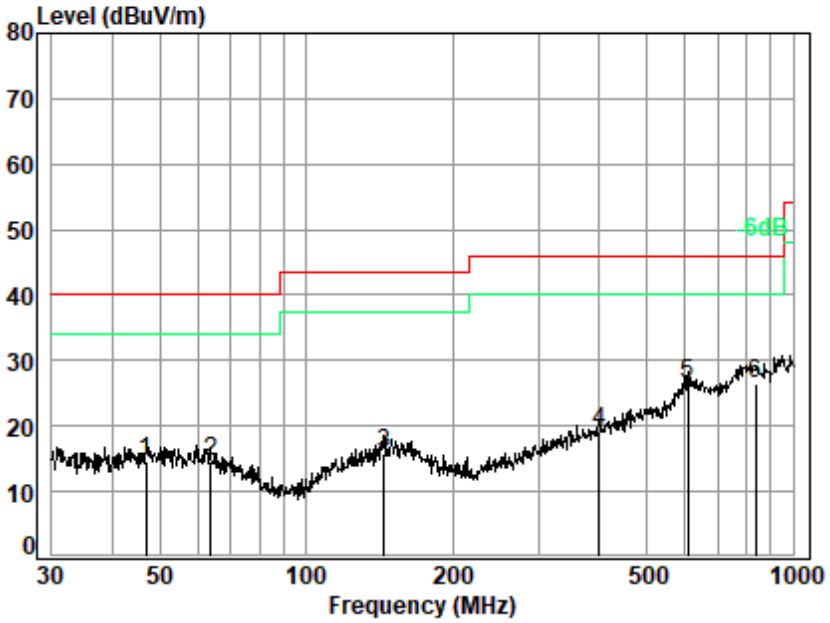
Test Mode: 03



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00043AT/00044AT
Mode : 03

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	46.83	0.67	17.72	26.10	22.41	14.70	40.00	-25.30	QP
2	63.54	0.85	16.85	26.10	23.08	14.68	40.00	-25.32	QP
3	144.33	1.34	17.17	25.67	22.84	15.68	43.50	-27.82	QP
4	399.03	1.56	19.70	25.98	23.79	19.07	46.00	-26.93	QP
5	607.79	3.40	24.21	26.56	25.28	26.33	46.00	-19.67	QP
6	839.18	3.08	26.75	26.46	22.98	26.35	46.00	-19.65	QP

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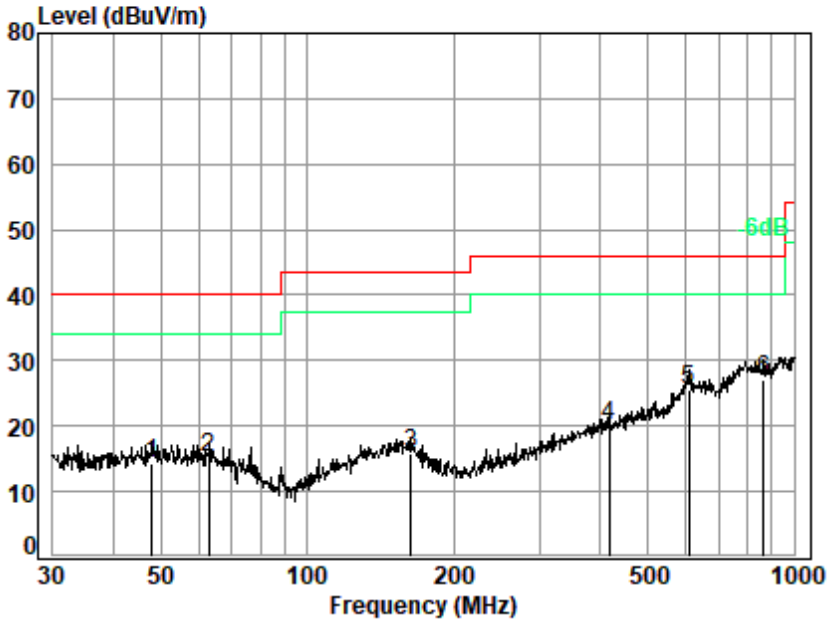
Test Mode: 03



Site : chamber
Condition: 3m VERTICAL
Job No : 00043AT/00044AT
Mode : 03

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	47.99	0.73	17.76	26.10	22.04	14.43	40.00	-25.57	QP
2	62.87	0.84	16.94	26.10	23.57	15.25	40.00	-24.75	QP
3	163.18	1.12	17.20	25.59	23.12	15.85	43.50	-27.65	QP
4	416.18	1.35	20.01	26.10	24.75	20.01	46.00	-25.99	QP
5	607.79	3.40	24.21	26.56	24.52	25.57	46.00	-20.43	QP
6	866.09	2.62	26.85	26.43	24.16	27.20	46.00	-18.80	QP

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7.4 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2020) Section 6.6 & 7.8.8
Measurement Distance: 3m
Test Engineer: Rex Liu

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

Note:

At Above 18GHz, measurements may be performed at a distance shorter than that specified in the regulations

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Above 18GHz, Aux Factor = 20 dB/decade of distance, the aux factor is 20log(1/3) = -9.54dB (for 1m test distance).

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 50.2 % RH Atmospheric Pressure: 1000 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX(Left buds)_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Pre-scan	01	Charge + TX(Left buds)_non-Hop mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Final test	03	TX(Right buds)_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Pre-scan	04	Charge + TX(Right buds)_non-Hop mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

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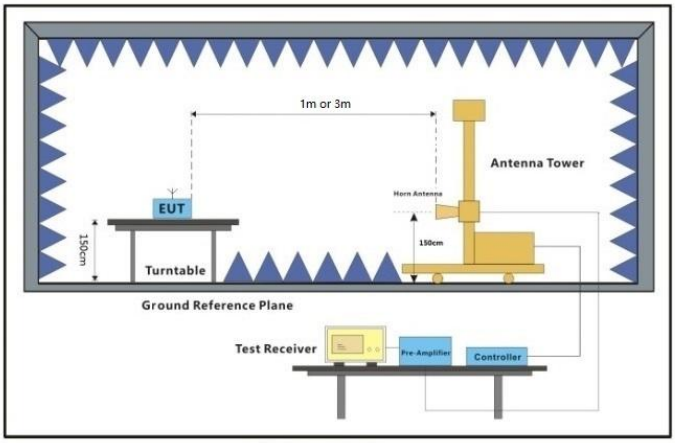
7.4.3 Test Setup Diagram



Above 1GHz

7.4.4 Measurement Procedure and Data

a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5m above the ground at a 3m fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3m away from the interference-receiving antenna from 1GHz to 18GHz, and 1m away from the interference-receiving antenna above 18GHz.

b. The interference-receiving antenna was mounted on the variable-height antenna tower, with its boresight facing the EUT throughout the test.

c. The antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1m to 4m and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. Test the EUT in the lowest channel, the middle channel, the Highest channel.

g. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

h. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Scan from 1GHz to 10th harmonic of the highest frequency or 40 GHz, whichever is lower.

2. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

3. For the frequency above 18GHz, testing had been executed under all test modes, only the worst-case test curve is displayed in the report.

4. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s).

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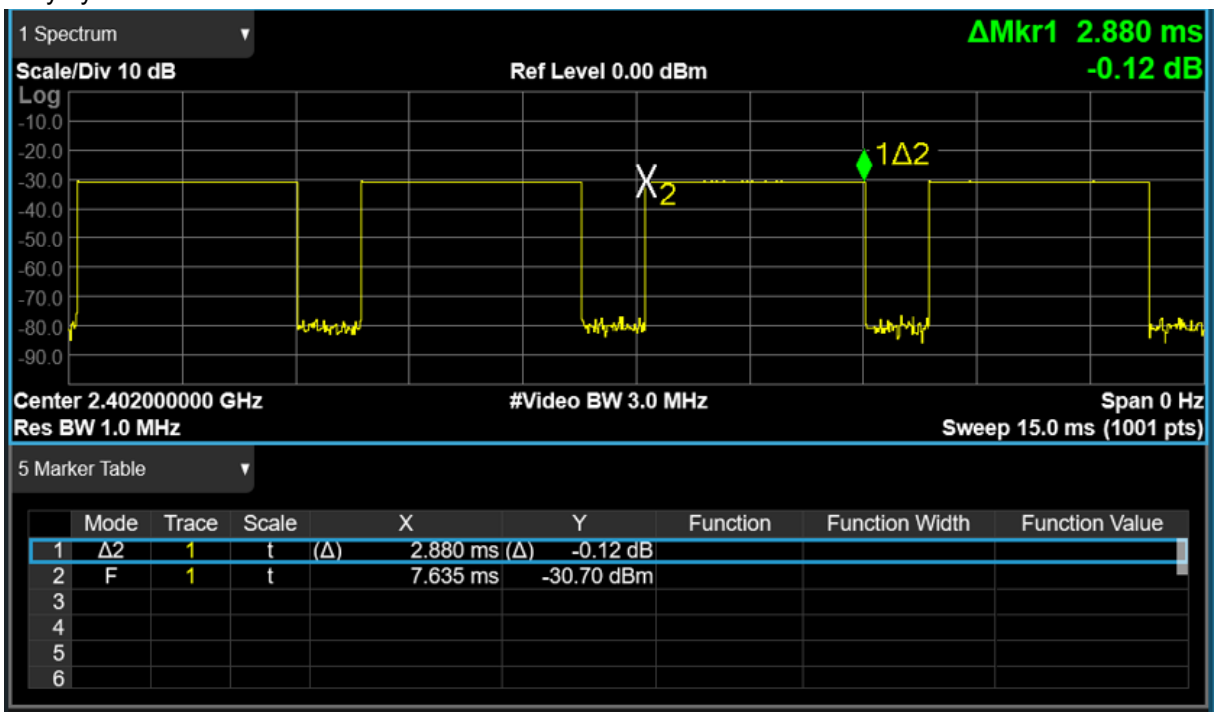
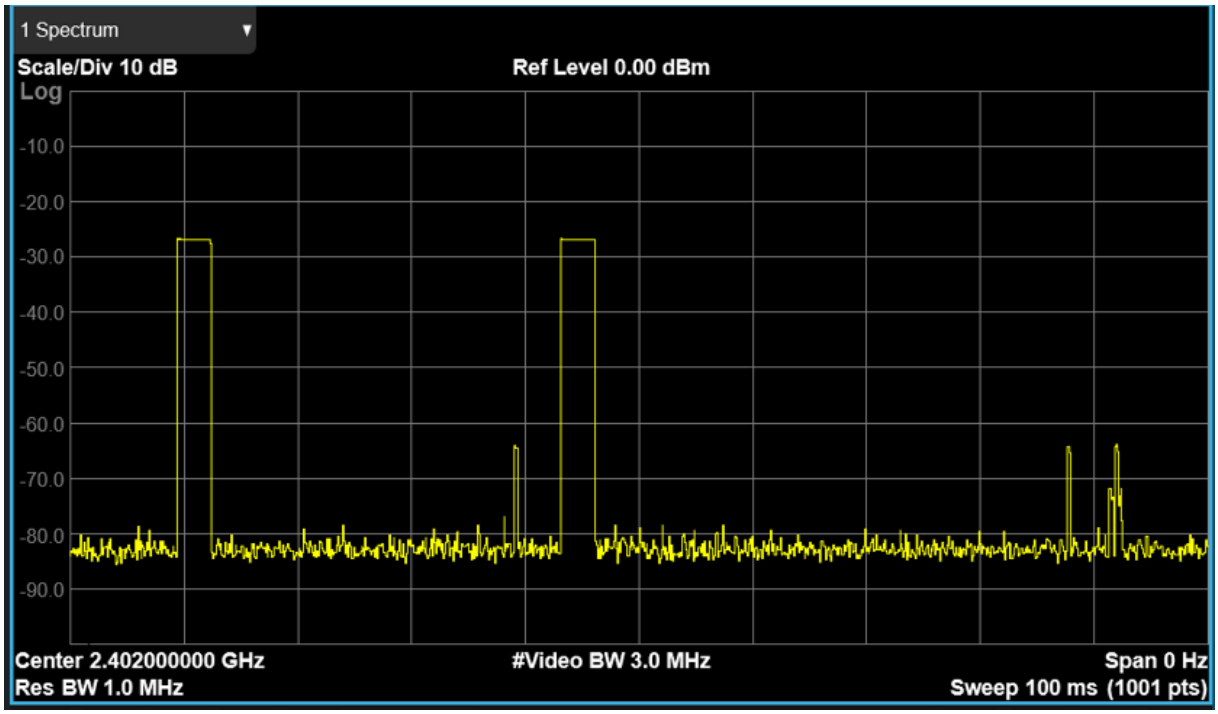
Duty cycle correction factor





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