

antenna height was varied between 1 m and 4 m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10:2013 on Radiated Emission test.

- (5) The emissions from 9 kHz to 1 GHz were measured based on CISPR QP detector except for the frequency bands 9 - 90 kHz, 110 - 490 kHz, for emissions from 9 kHz - 90 kHz, 110 kHz - 490 kHz and above 1 GHz were measured based on average detector, for emissions above 1 GHz, peak emissions also be measured and need comply with Peak limit.
- (6) The emissions from 9 kHz to 1 GHz, QP or average values were measured with EMI receiver with below RBW

Frequency band	RBW
9 kHz - 150 kHz	200 Hz
150 kHz - 30 MHz	9 kHz
30 MHz - 1 GHz	120 kHz

- (7) For emissions above 1 GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1 MHz, VBW is set at 3 MHz for Peak measure; According ANSI C63.10:2013 clause 4.1.4.2.2 procedure for average measure.
- (8) X axis, Y axis, Z axis are tested, and worse setup X axis is reported.

8.4. Test result

Pass. (See below detailed test result)

All the emissions except fundamental emission from 9 kHz to 25 GHz were comply with 15.209 limit.

Note1: According exploratory test, the emission levels are 20 dB below the limit detected from 9 kHz to 30 MHz and 18 GHz to 25 GHz, so the final test was performed with frequency range from 30 MHz to 18 GHz and recorded in below.

Note2: For emissions below 1 GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with EUT working in GFSK, Tx 2480 MHz mode.

Note3: For emissions above 1 GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.

Radiated Emission test (below 1 GHz)

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

D:\E3 6.111\2022 Report Data\Q22070803-2E\LRC1\FCC
BELOW 1G.EM6

Test Date : 2022-07-12

Tested By : Bairong

EUT : Remote Control

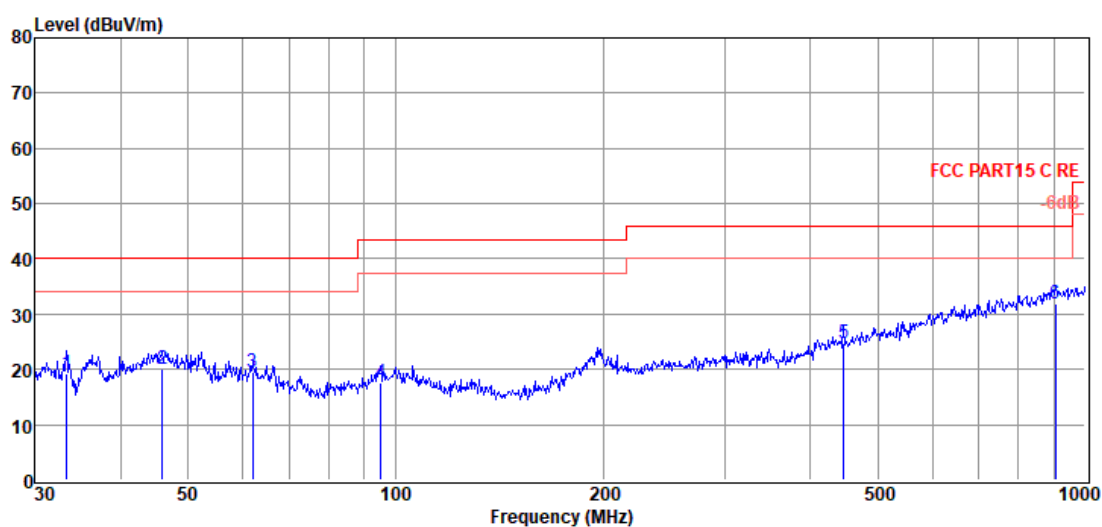
Model Number : LRC1

Power Supply : Battery

Test Mode : Tx Mode

Condition : Temp:21.7°C,Humi:56.5%,Press:100.3kPa Antenna/Distance : 2021 VLUB 9163 #3/3m/VERTICAL

Memo : BLE



Data: 1

Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	33.33	6.91	8.87	3.57	19.35	40.00	-20.65	QP	VERTICAL
2	45.86	1.88	14.67	3.65	20.20	40.00	-19.80	QP	VERTICAL
3	62.00	5.71	10.10	3.77	19.58	40.00	-20.42	QP	VERTICAL
4	95.09	2.61	11.11	3.96	17.68	43.50	-25.82	QP	VERTICAL
5	446.41	3.53	15.87	5.31	24.71	46.00	-21.29	QP	VERTICAL
6	906.48	3.14	22.23	6.49	31.86	46.00	-14.14	QP	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

D:\E3 6.111\2022 Report Data\Q22070803-2E\LRC1\FCC
BELOW 1G.EM6

Test Date : 2022-07-12

Tested By : Bairong

EUT : Remote Control

Model Number : LRC1

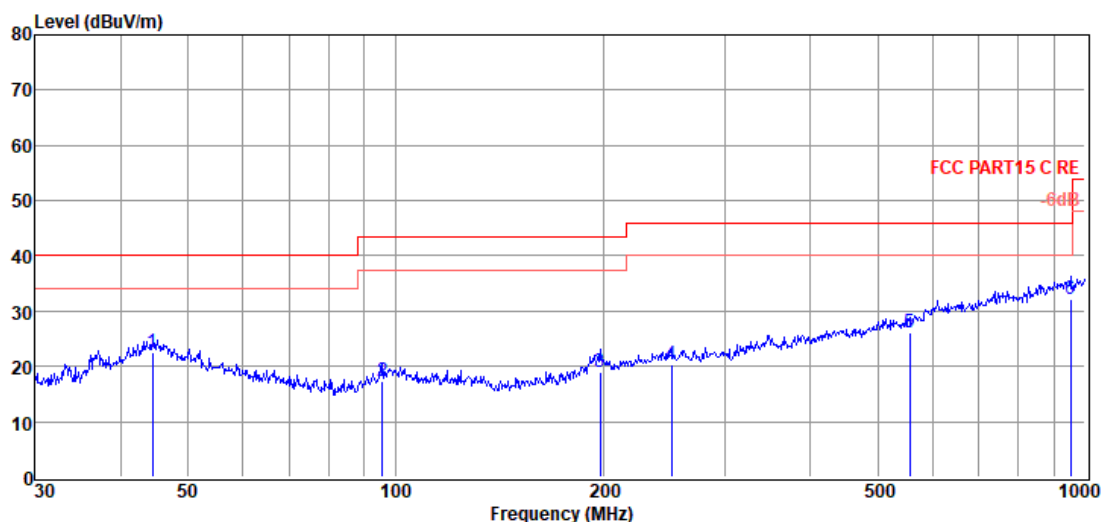
Power Supply : Battery

Test Mode : Tx Mode

Condition : Temp:21.7°C,Humi:56.5%,Press:100.3kPa

Antenna/Distance : 2021 VLUB 9163 #3/3m/HORIZONTAL

Memo : BLE



Data: 2

Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	44.43	3.99	15.04	3.64	22.67	40.00	-17.33	QP	HORIZONTAL
2	95.76	2.07	11.18	3.96	17.21	43.50	-26.29	QP	HORIZONTAL
3	197.89	2.66	11.89	4.44	18.99	43.50	-24.51	QP	HORIZONTAL
4	251.18	3.27	12.55	4.66	20.48	46.00	-25.52	QP	HORIZONTAL
5	556.77	2.89	17.50	5.60	25.99	46.00	-20.01	QP	HORIZONTAL
6	952.09	3.41	22.20	6.58	32.19	46.00	-13.81	QP	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

Radiated Emission test (above 1 GHz)

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

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ABOVE 1G .EM6

Test Date : 2022-07-12

Tested By : James Gan

EUT : Remote Control

Model Number : LRC1

Power Supply : Battery

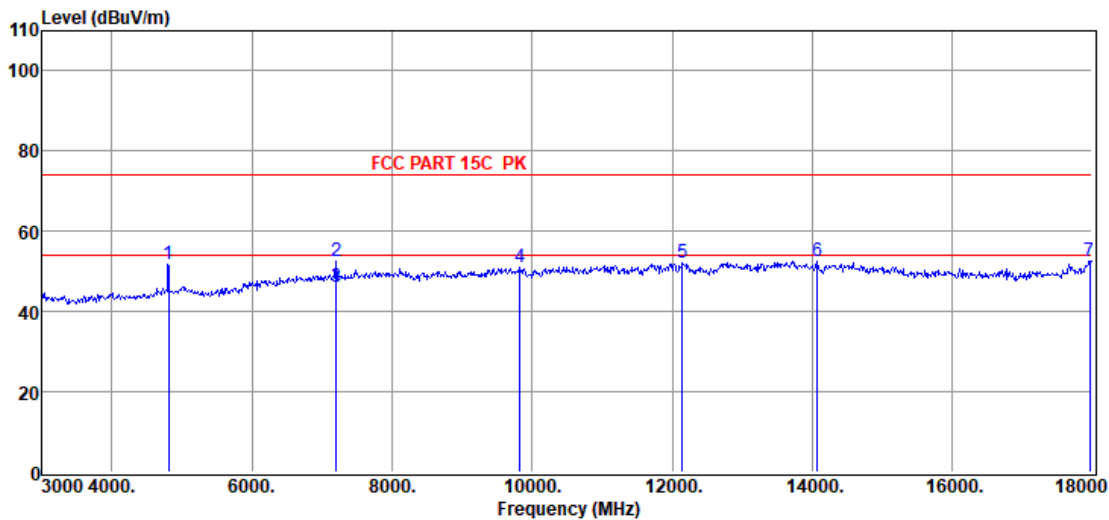
Test Mode : Tx Mode

Condition : Temp:22.2°C,Humi:55.5%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D
3#/3m/HORIZONTAL

Memo : BLE 2402

Data: 1



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	4804.00	54.94	32.47	40.36	2.47	2.16	51.68	74.00	-22.32	Peak	HORIZONTAL
2	7206.00	50.95	36.16	39.72	3.07	2.26	52.72	74.00	-21.28	Peak	HORIZONTAL
3	7206.00	44.36	36.16	39.72	3.07	2.26	46.13	54.00	-7.87	Average	HORIZONTAL
4	9825.00	47.03	38.51	40.48	3.65	2.43	51.14	74.00	-22.86	Peak	HORIZONTAL
5	12150.00	46.92	39.14	40.15	3.95	2.48	52.34	74.00	-21.66	Peak	HORIZONTAL
6	14070.00	45.05	39.90	39.69	4.50	2.88	52.64	74.00	-21.36	Peak	HORIZONTAL
7	17970.00	42.26	42.31	40.68	4.95	3.78	52.62	74.00	-21.38	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

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ABOVE 1G .EM6

Test Date : 2022-07-12

Tested By : James Gan

EUT : Remote Control

Model Number : LRC1

Power Supply : Battery

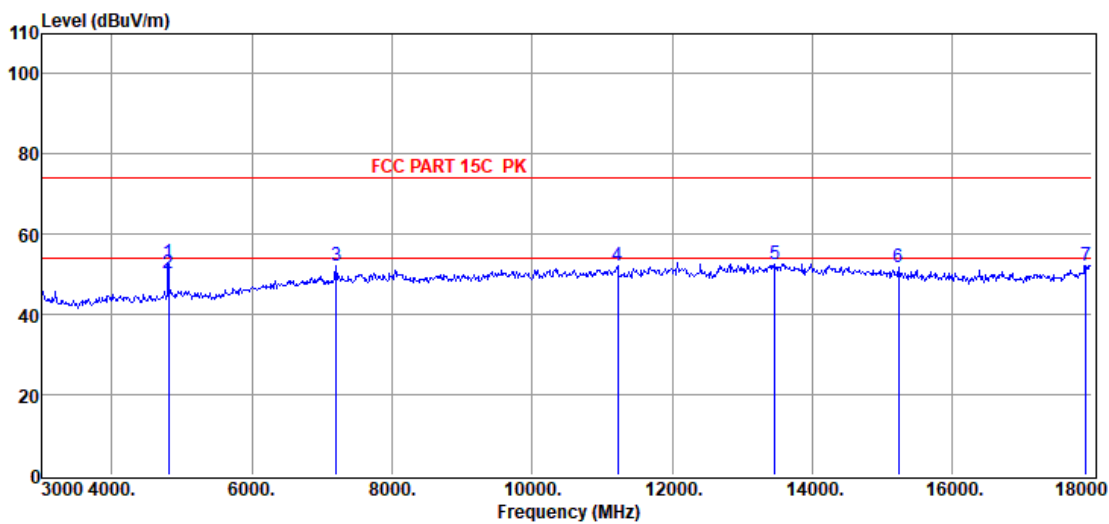
Test Mode : Tx Mode

Condition : Temp:22.2°C,Humi:55.5%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D 3#/3m/VERTICAL

Memo : BLE 2402

Data: 2



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	4804.00	56.26	32.47	40.36	2.47	2.16	53.00	74.00	-21.00	Peak	VERTICAL
2	4804.00	53.69	32.47	40.36	2.47	2.16	50.43	54.00	-3.57	Average	VERTICAL
3	7206.00	50.58	36.16	39.72	3.07	2.26	52.35	74.00	-21.65	Peak	VERTICAL
4	11220.00	46.86	39.17	40.18	3.87	2.38	52.10	74.00	-21.90	Peak	VERTICAL
5	13470.00	45.81	39.98	40.07	4.01	2.93	52.66	74.00	-21.34	Peak	VERTICAL
6	15240.00	45.13	39.16	39.67	4.51	2.74	51.87	74.00	-22.13	Peak	VERTICAL
7	17910.00	42.31	41.94	40.65	4.93	3.76	52.29	74.00	-21.71	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

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ABOVE 1G .EM6

Test Date : 2022-07-12

Tested By : James Gan

EUT : Remote Control

Model Number : LRC1

Power Supply : Battery

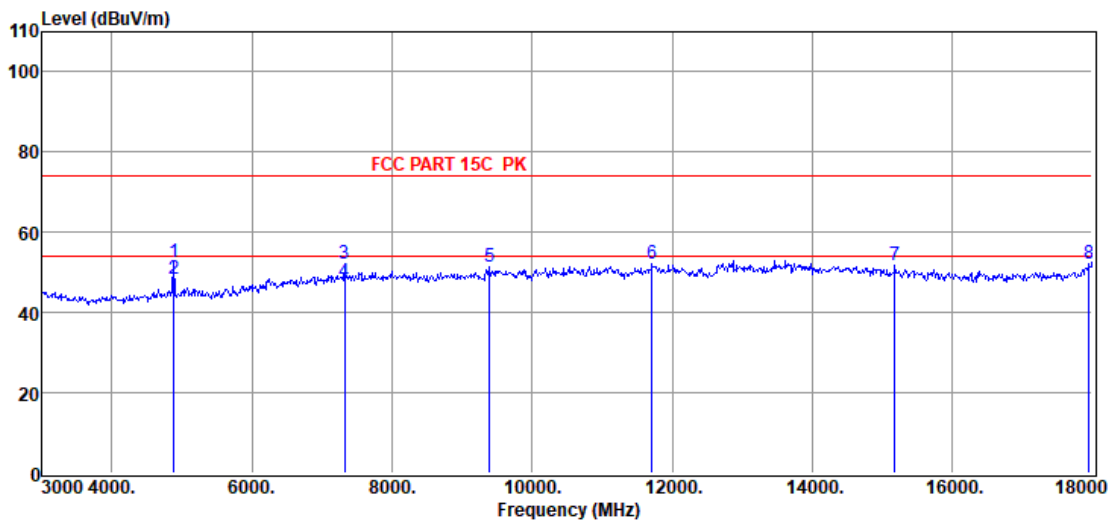
Test Mode : Tx Mode

Condition : Temp:22.2°C,Humi:55.5%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D
3#/3m/HORIZONTAL

Memo : BLE 2440

Data: 3



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4880.00	55.48	32.72	40.38	2.50	2.17	52.49	74.00	-21.51	Peak	HORIZONTAL
2	4880.00	51.46	32.72	40.38	2.50	2.17	48.47	54.00	-5.53	Average	HORIZONTAL
3	7320.00	50.28	36.26	39.73	3.10	2.27	52.18	74.00	-21.82	Peak	HORIZONTAL
4	7320.00	45.79	36.26	39.73	3.10	2.27	47.69	54.00	-6.31	Average	HORIZONTAL
5	9390.00	47.10	38.61	40.17	3.56	2.30	51.40	74.00	-22.60	Peak	HORIZONTAL
6	11715.00	46.85	39.09	40.13	4.00	2.39	52.20	74.00	-21.80	Peak	HORIZONTAL
7	15180.00	44.90	39.25	39.65	4.50	2.71	51.71	74.00	-22.29	Peak	HORIZONTAL
8	17955.00	41.81	42.22	40.67	4.95	3.78	52.09	74.00	-21.91	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

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ABOVE 1G .EM6

Test Date : 2022-07-12

Tested By : James Gan

EUT : Remote Control

Model Number : LRC1

Power Supply : Battery

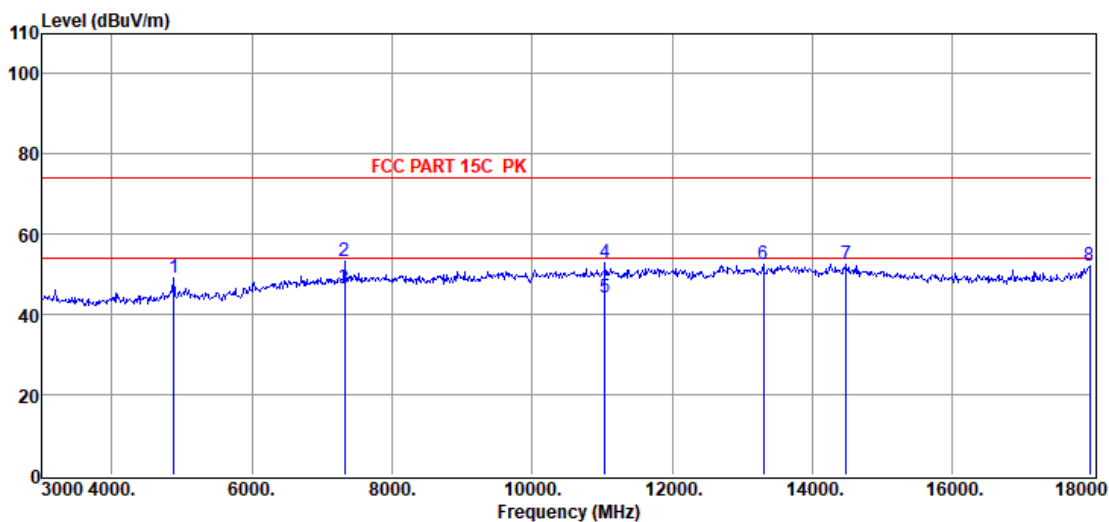
Test Mode : Tx Mode

Condition : Temp:22.2°C,Humi:55.5%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D 3#/3m/VERTICAL

Memo : BLE 2440

Data: 4



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4880.00	52.02	32.72	40.38	2.50	2.17	49.03	74.00	-24.97	Peak	VERTICAL
2	7320.00	51.23	36.26	39.73	3.10	2.27	53.13	74.00	-20.87	Peak	VERTICAL
3	7320.00	44.42	36.26	39.73	3.10	2.27	46.32	54.00	-7.68	Average	VERTICAL
4	11040.00	47.50	39.28	40.20	3.81	2.38	52.77	74.00	-21.23	Peak	VERTICAL
5	11040.00	38.78	39.28	40.20	3.81	2.38	44.05	54.00	-9.95	Average	VERTICAL
6	13305.00	45.72	39.84	40.19	4.15	2.94	52.46	74.00	-21.54	Peak	VERTICAL
7	14490.00	45.36	39.90	39.65	4.35	2.76	52.72	74.00	-21.28	Peak	VERTICAL
8	17970.00	41.73	42.31	40.68	4.95	3.78	52.09	74.00	-21.91	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

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ABOVE 1G .EM6

Test Date : 2022-07-12

Tested By : James Gan

EUT : Remote Control

Model Number : LRC1

Power Supply : Battery

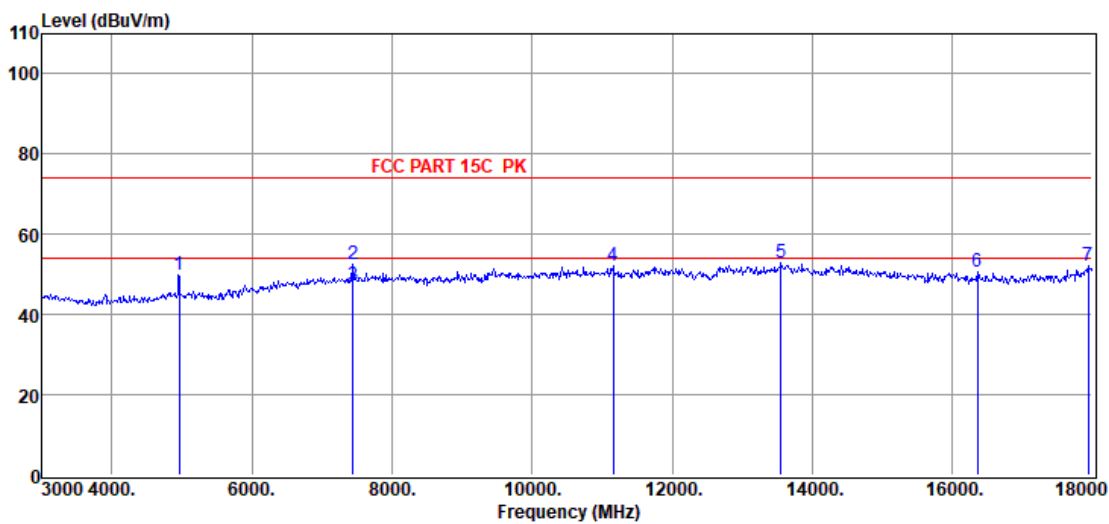
Test Mode : Tx Mode

Condition : Temp:22.2°C,Humi:55.5%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D
3#/3m/HORIZONTAL

Memo : BLE 2480

Data: 5



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4960.00	52.42	32.97	40.39	2.53	2.18	49.71	74.00	-24.29	Peak	HORIZONTAL
2	7440.00	50.67	36.35	39.74	3.13	2.27	52.68	74.00	-21.32	Peak	HORIZONTAL
3	7440.00	45.07	36.35	39.74	3.13	2.27	47.08	54.00	-6.92	Average	HORIZONTAL
4	11160.00	47.10	39.20	40.18	3.85	2.38	52.35	74.00	-21.65	Peak	HORIZONTAL
5	13560.00	45.92	39.99	40.01	4.05	2.93	52.88	74.00	-21.12	Peak	HORIZONTAL
6	16365.00	44.83	37.90	39.97	4.69	3.26	50.71	74.00	-23.29	Peak	HORIZONTAL
7	17940.00	41.92	42.13	40.66	4.94	3.77	52.10	74.00	-21.90	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

D:\E3 6.111\2022 Report Data\Q22070803-2E LRC\FCC
ABOVE 1G .EM6

Test Date : 2022-07-12

Tested By : James Gan

EUT : Remote Control

Model Number : LRC1

Power Supply : Battery

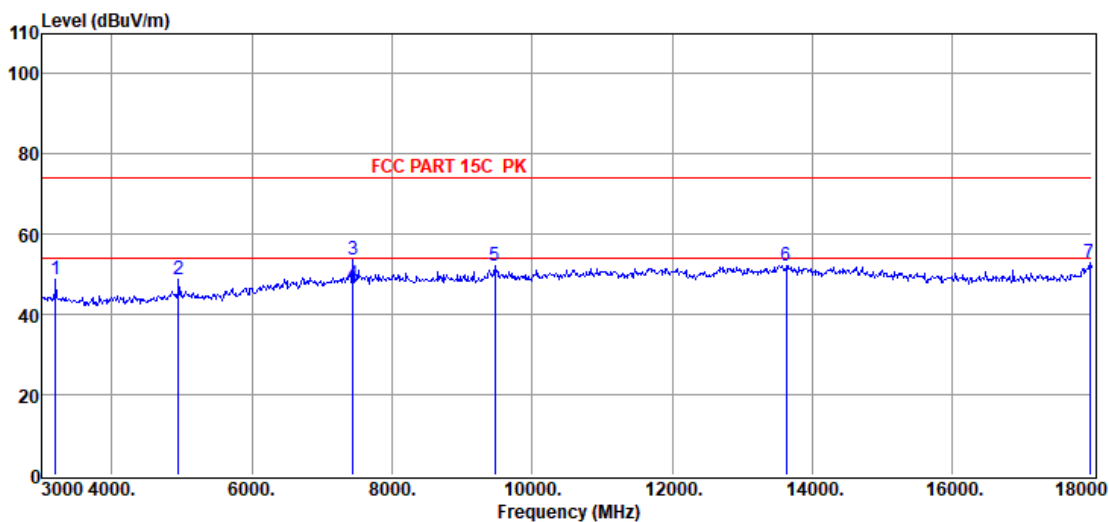
Test Mode : Tx Mode

Condition : Temp:22.2°C,Humi:55.5%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D 3#/3m/VERTICAL

Memo : BLE 2480

Data: 6



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	3195.00	54.48	29.46	39.96	1.80	2.95	48.73	74.00	-25.27	Peak	VERTICAL
2	4950.00	51.52	32.94	40.39	2.52	2.18	48.77	74.00	-25.23	Peak	VERTICAL
3	7440.00	51.85	36.35	39.74	3.13	2.27	53.86	74.00	-20.14	Peak	VERTICAL
4	7440.00	45.76	36.35	39.74	3.13	2.27	47.77	54.00	-6.23	Average	VERTICAL
5	9465.00	47.85	38.67	40.23	3.60	2.32	52.21	74.00	-21.79	Peak	VERTICAL
6	13635.00	45.28	39.97	39.96	4.14	2.92	52.35	74.00	-21.65	Peak	VERTICAL
7	17970.00	42.69	42.31	40.68	4.95	3.78	53.05	74.00	-20.95	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

D:\E3 6.111\2022 Report Data\Q22070803-2E LRC\FCC
ABOVE 1G .EM6

Test Date : 2022-07-12

Tested By : James Gan

EUT : Remote Control

Model Number : LRC1

Power Supply : Battery

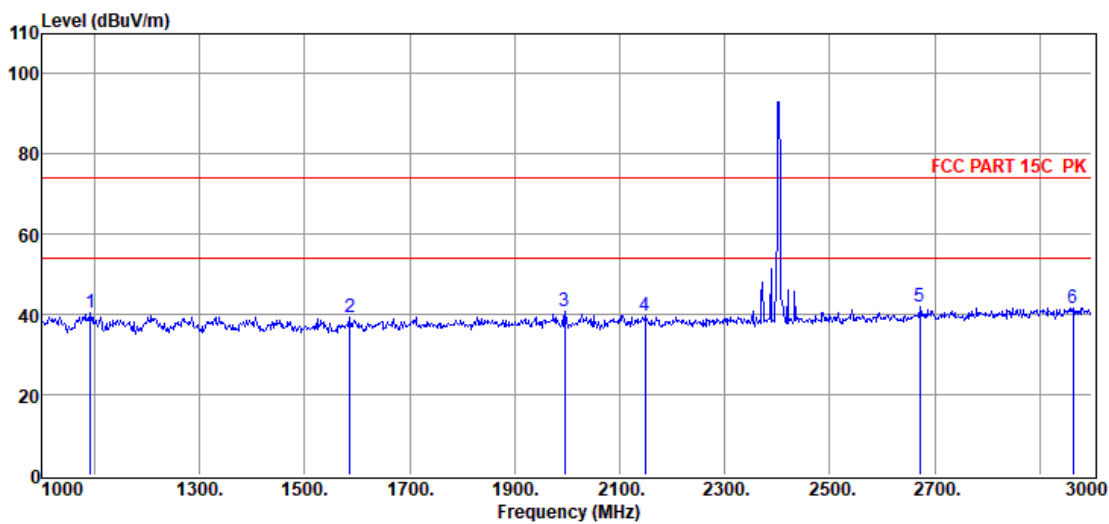
Test Mode : Tx Mode

Condition : Temp:22.2°C,Humi:55.5%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D
3#/3m/HORIZONTAL

Memo : BLE 2402

Data: 7



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1092.00	51.19	25.48	38.04	1.15	0.52	40.30	74.00	-33.70	Peak	HORIZONTAL
2	1586.00	50.56	25.62	38.78	1.42	0.61	39.43	74.00	-34.57	Peak	HORIZONTAL
3	1996.00	51.26	26.69	39.39	1.60	0.68	40.84	74.00	-33.16	Peak	HORIZONTAL
4	2148.00	49.93	26.97	39.47	1.64	0.70	39.77	74.00	-34.23	Peak	HORIZONTAL
5	2672.00	50.98	28.25	39.74	1.78	0.75	42.02	74.00	-31.98	Peak	HORIZONTAL
6	2964.00	49.53	29.36	39.88	1.86	0.79	41.66	74.00	-32.34	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

D:\E3 6.111\2022 Report Data\Q22070803-2E LRC\FCC
ABOVE 1G .EM6

Test Date : 2022-07-12

Tested By : James Gan

EUT : Remote Control

Model Number : LRC1

Power Supply : Battery

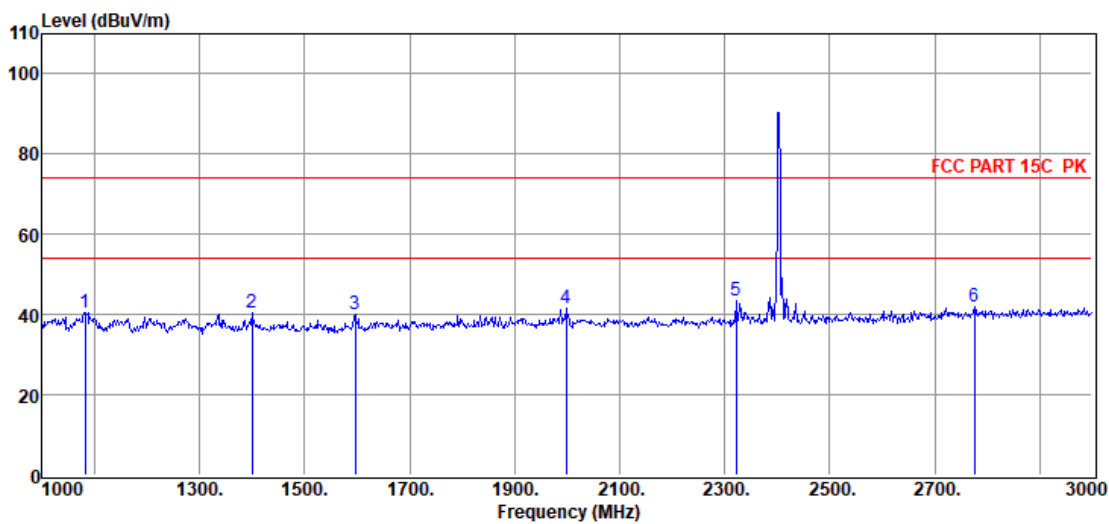
Test Mode : Tx Mode

Condition : Temp:22.2°C,Humi:55.5%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D 3#/3m/VERTICAL

Memo : BLE 2402

Data: 8



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1082.00	51.47	25.48	38.02	1.15	0.51	40.59	74.00	-33.41	Peak	VERTICAL
2	1400.00	51.63	25.42	38.50	1.32	0.57	40.44	74.00	-33.56	Peak	VERTICAL
3	1596.00	51.20	25.65	38.79	1.42	0.61	40.09	74.00	-33.91	Peak	VERTICAL
4	1998.00	52.13	26.69	39.40	1.60	0.68	41.70	74.00	-32.30	Peak	VERTICAL
5	2322.00	53.52	27.28	39.56	1.69	0.72	43.65	74.00	-30.35	Peak	VERTICAL
6	2776.00	50.37	28.65	39.79	1.81	0.77	41.81	74.00	-32.19	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

D:\E3 6.111\2022 Report Data\Q22070803-2E LRC\FCC
ABOVE 1G .EM6

Test Date : 2022-07-12

Tested By : James Gan

EUT : Remote Control

Model Number : LRC1

Power Supply : Battery

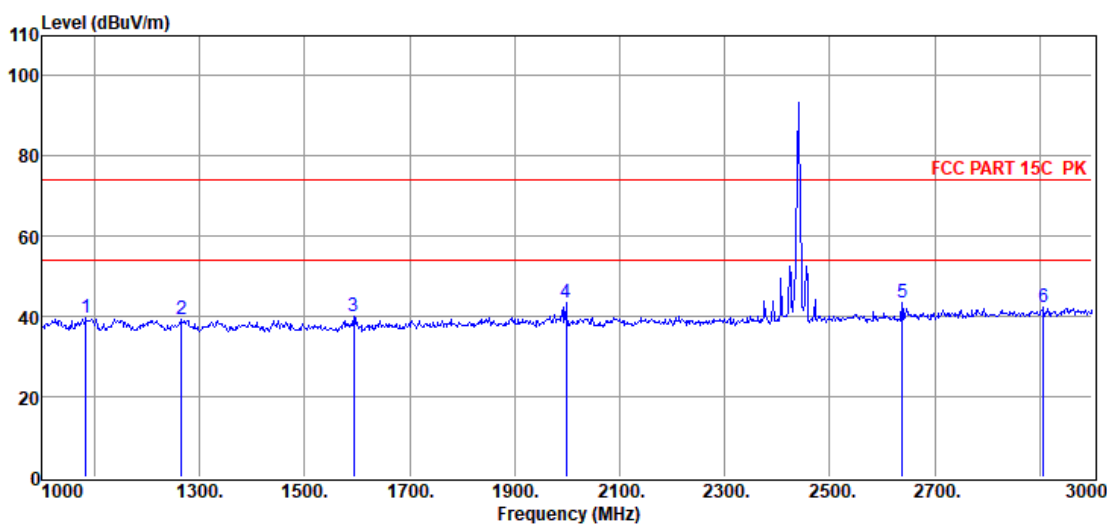
Test Mode : Tx Mode

Condition : Temp:22.2°C,Humi:55.5%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D
3#/3m/HORIZONTAL

Memo : BLE 2440

Data: 9



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1084.00	50.69	25.48	38.03	1.15	0.52	39.81	74.00	-34.19	Peak	HORIZONTAL
2	1266.00	50.24	25.45	38.30	1.25	0.55	39.19	74.00	-34.81	Peak	HORIZONTAL
3	1594.00	51.14	25.64	38.79	1.42	0.61	40.02	74.00	-33.98	Peak	HORIZONTAL
4	1998.00	53.71	26.69	39.40	1.60	0.68	43.28	74.00	-30.72	Peak	HORIZONTAL
5	2638.00	52.53	28.12	39.72	1.78	0.75	43.46	74.00	-30.54	Peak	HORIZONTAL
6	2908.00	50.25	29.15	39.85	1.85	0.78	42.18	74.00	-31.82	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

D:\E3 6.111\2022 Report Data\Q22070803-2E LRC\FCC
ABOVE 1G .EM6

Test Date : 2022-07-12

Tested By : James Gan

EUT : Remote Control

Model Number : LRC1

Power Supply : Battery

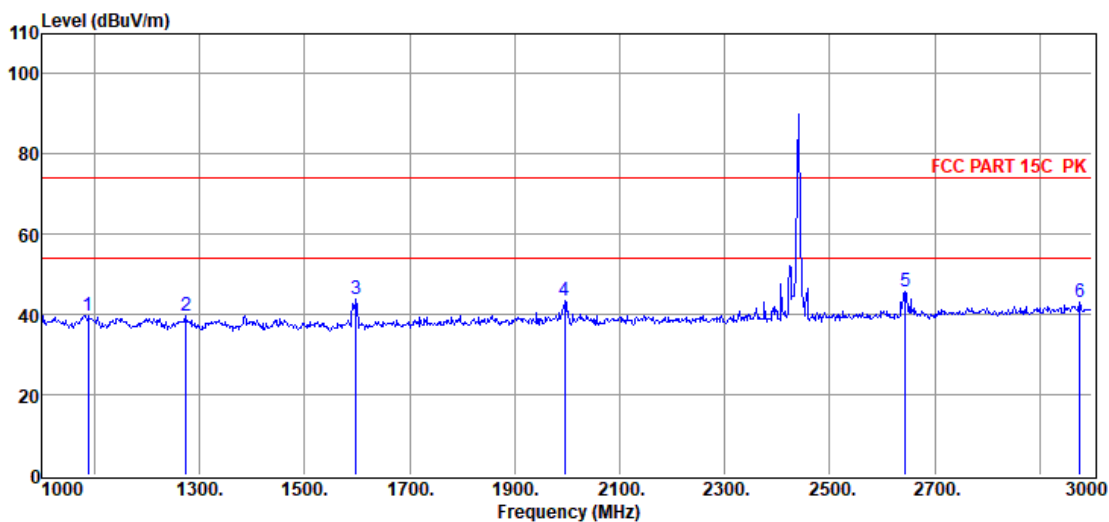
Test Mode : Tx Mode

Condition : Temp:22.2°C,Humi:55.5%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D 3#/3m/VERTICAL

Memo : BLE 2440

Data: 10



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1088.00	50.75	25.48	38.03	1.15	0.52	39.87	74.00	-34.13	Peak	VERTICAL
2	1274.00	50.73	25.45	38.31	1.25	0.55	39.67	74.00	-34.33	Peak	VERTICAL
3	1598.00	55.07	25.65	38.80	1.42	0.61	43.95	74.00	-30.05	Peak	VERTICAL
4	1996.00	53.99	26.69	39.39	1.60	0.68	43.57	74.00	-30.43	Peak	VERTICAL
5	2644.00	54.60	28.15	39.72	1.78	0.75	45.56	74.00	-28.44	Peak	VERTICAL
6	2976.00	50.74	29.41	39.89	1.86	0.79	42.91	74.00	-31.09	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

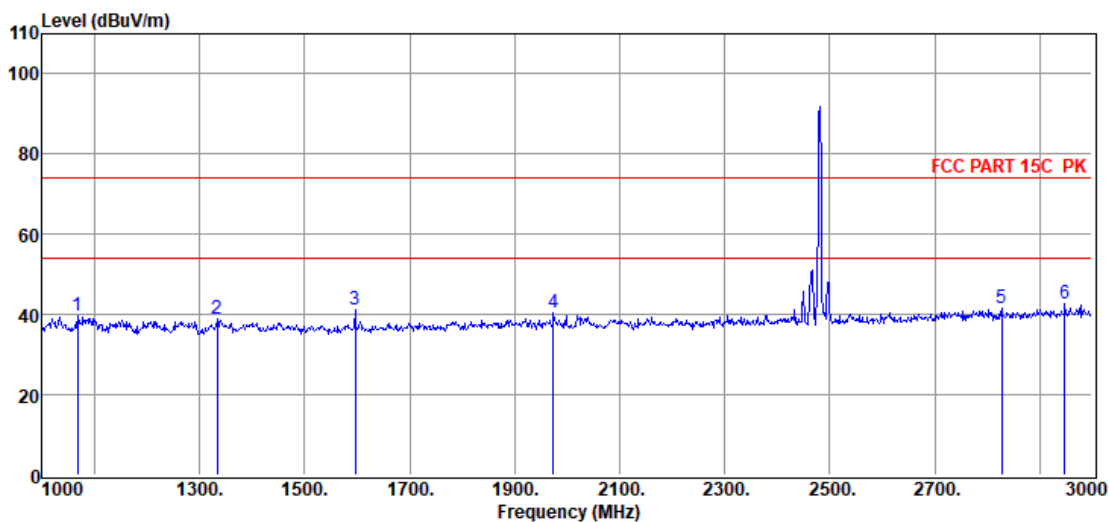
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#D:\E3 6.111\2022 Report Data\Q22070803-2E LRC\FCC
ABOVE 1G .EM6**Test Date** : 2022-07-12**Tested By** : James Gan**EUT** : Remote Control**Model Number** : LRC1**Power Supply** : Battery**Test Mode** : Tx Mode**Condition** : Temp:22.2°C,Humi:55.5%,Press:100.1kPa**Antenna/Distance** : 2021 BBHA 9120D
3#/3m/HORIZONTAL**Memo** : BLE 2480

Data: 11



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1068.00	50.61	25.49	38.00	1.14	0.51	39.75	74.00	-34.25	Peak	HORIZONTAL
2	1334.00	49.97	25.43	38.40	1.29	0.56	38.85	74.00	-35.15	Peak	HORIZONTAL
3	1596.00	52.39	25.65	38.79	1.42	0.61	41.28	74.00	-32.72	Peak	HORIZONTAL
4	1974.00	50.79	26.63	39.36	1.59	0.68	40.33	74.00	-33.67	Peak	HORIZONTAL
5	2828.00	50.06	28.85	39.81	1.83	0.77	41.70	74.00	-32.30	Peak	HORIZONTAL
6	2948.00	50.61	29.30	39.87	1.86	0.78	42.68	74.00	-31.32	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

D:\E3 6.111\2022 Report Data\Q22070803-2E LRC\FCC
ABOVE 1G .EM6

Test Date : 2022-07-12

Tested By : James Gan

EUT : Remote Control

Model Number : LRC1

Power Supply : Battery

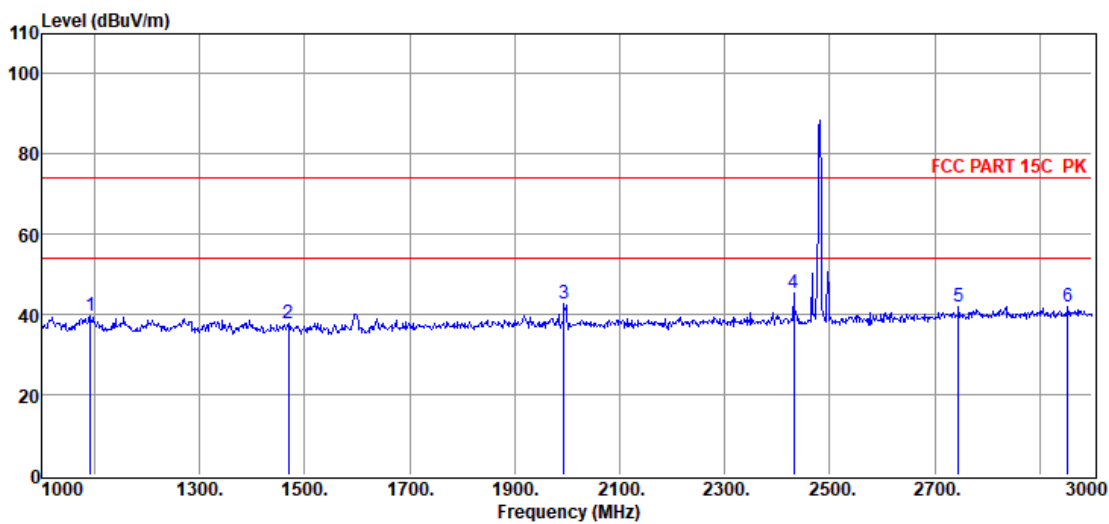
Test Mode : Tx Mode

Condition : Temp:22.2°C,Humi:55.5%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D 3#/3m/VERTICAL

Memo : BLE 2480

Data: 12



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1092.00	50.68	25.48	38.04	1.15	0.52	39.79	74.00	-34.21	Peak	VERTICAL
2	1470.00	49.19	25.41	38.61	1.36	0.58	37.93	74.00	-36.07	Peak	VERTICAL
3	1994.00	53.32	26.68	39.39	1.60	0.68	42.89	74.00	-31.11	Peak	VERTICAL
4	2432.00	54.89	27.48	39.62	1.72	0.73	45.20	74.00	-28.80	Peak	VERTICAL
5	2746.00	50.71	28.53	39.77	1.80	0.76	42.03	74.00	-31.97	Peak	VERTICAL
6	2954.00	49.84	29.33	39.88	1.86	0.78	41.93	74.00	-32.07	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

9. RF Conducted Spurious Emissions

9.1. Block diagram of test setup

Same as section 4.1

9.2. Limits

In any 100 kHz bandwidth outside the frequency bands in which the spread spectrum 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.

9.3. Test procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) Establish a reference level by using the following procedure:

Center frequency	Test frequency
RBW:	100 kHz
VBW:	300 kHz
Span	Wide enough to capture the peak level of the in-band emission
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

(3) Allow the trace to stabilize, use the peak marker function to determine the maximum peak power level to establish the reference level.

(4) Set the spectrum analyzer as follows:

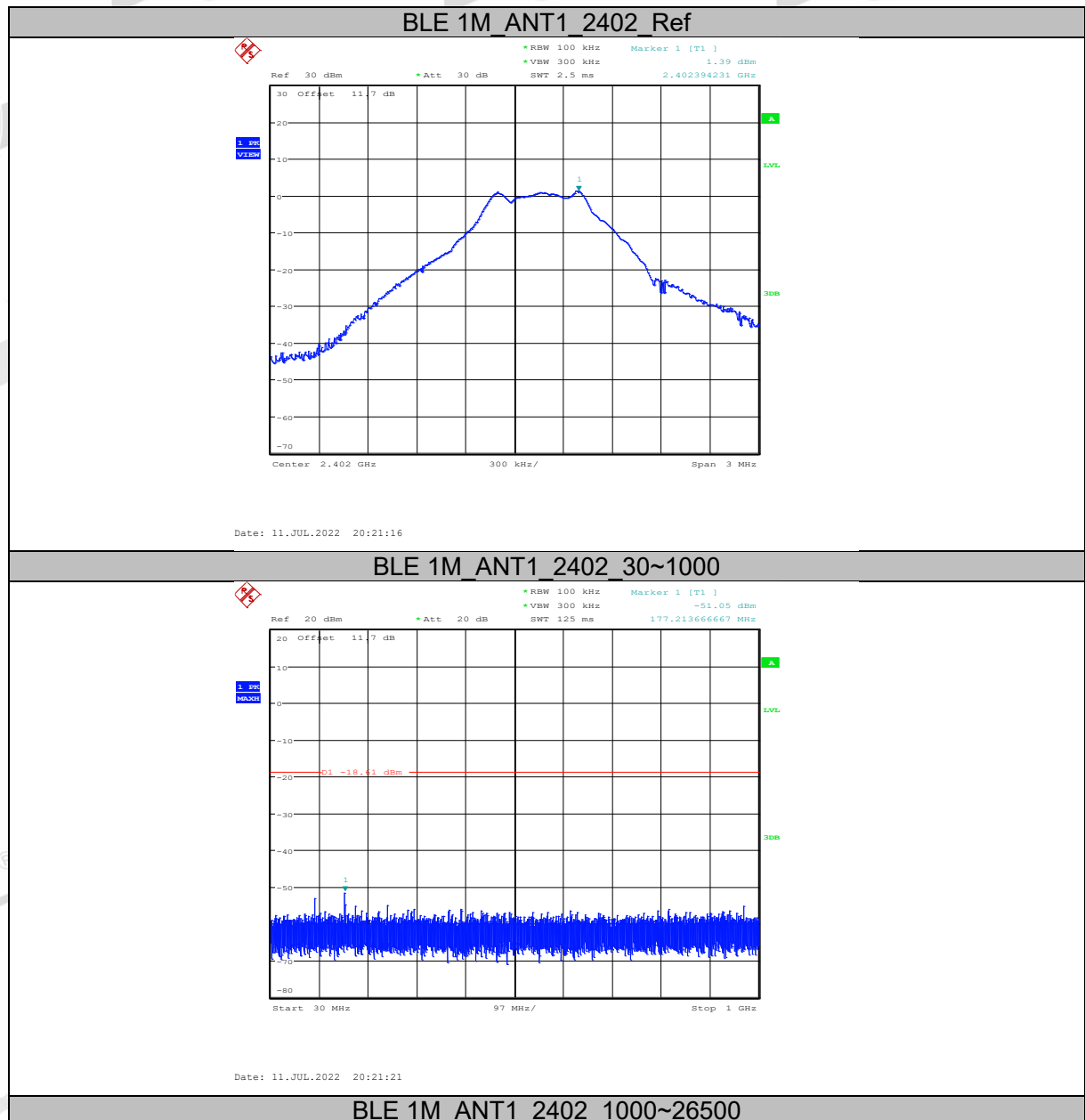
RBW:	100 kHz
VBW:	300 kHz
Span	Encompass frequency range to be measured
Number of measurement points	$\geq \text{span}/\text{RBW}$
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

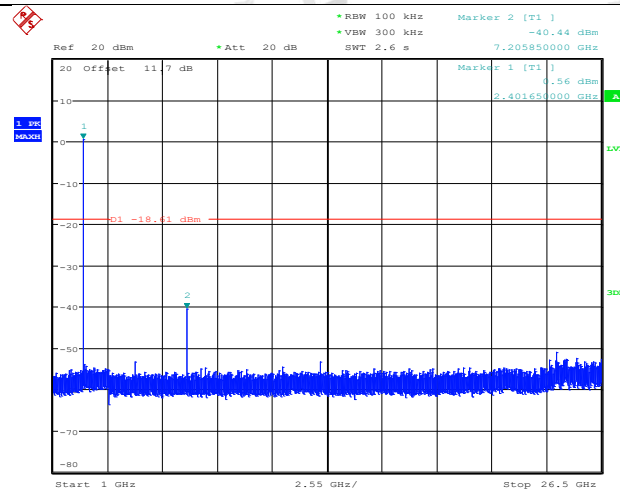
(5) Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude of all unwanted emissions outside of the authorized frequency band

9.4. Test result

Mode	Freq. (MHz)	Verdict
GFSK	2402	Pass
	2440	Pass
	2480	Pass

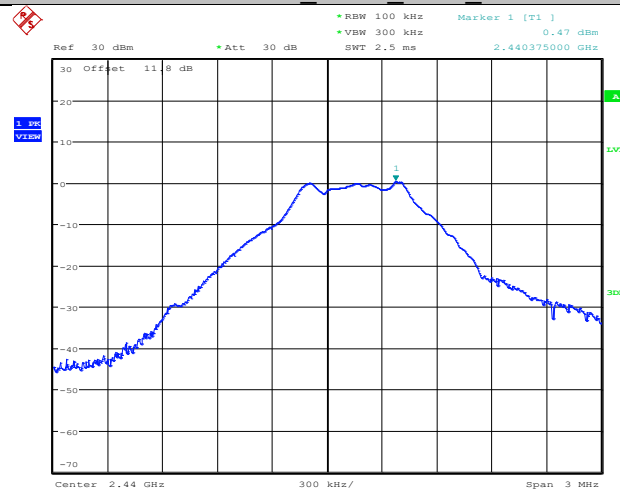
9.5. Original test data





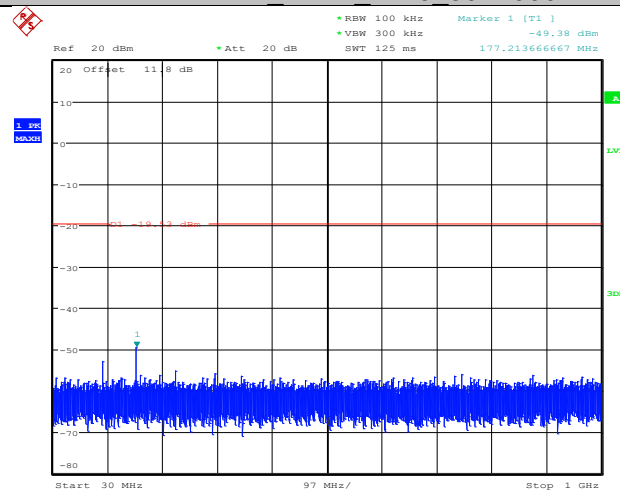
Date: 11.JUL.2022 20:21:44

BLE 1M	ANT1	2440	Ref



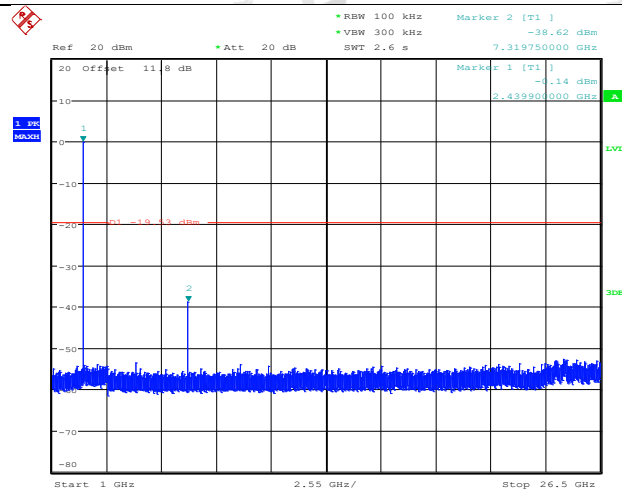
Date: 11.JUL.2022 20:28:55

BLE 1M ANT1	2440	30~1000
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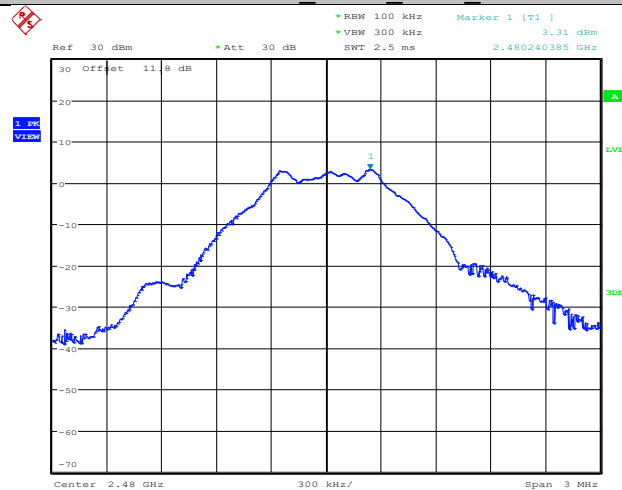
Date: 11.JUL.2022 20:29:00

BLE 1M ANT1	2440	1000~26500
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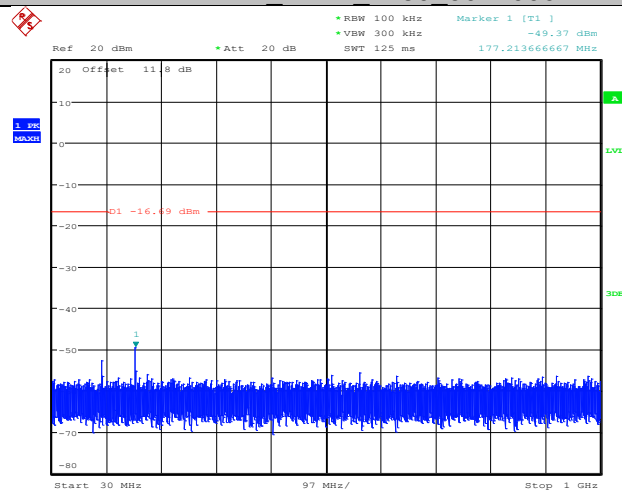
Date: 11.JUL.2022 20:29:47

BLE 1M ANT1 2480 Ref



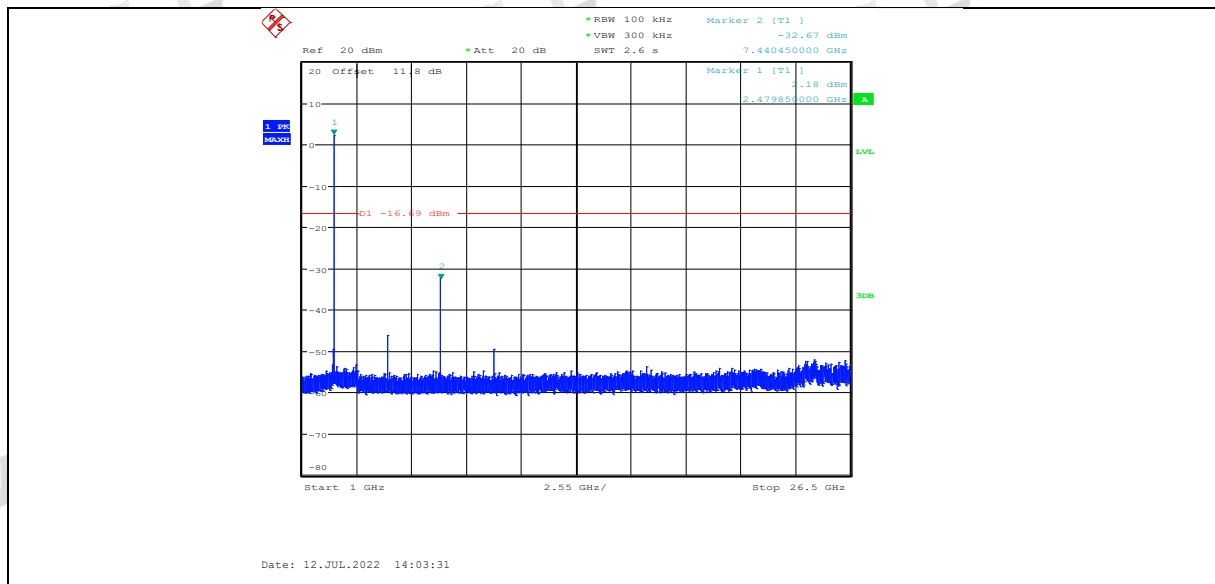
Date: 12.JUL.2022 14:02:22

BLE 1M ANT1 2480 30~1000



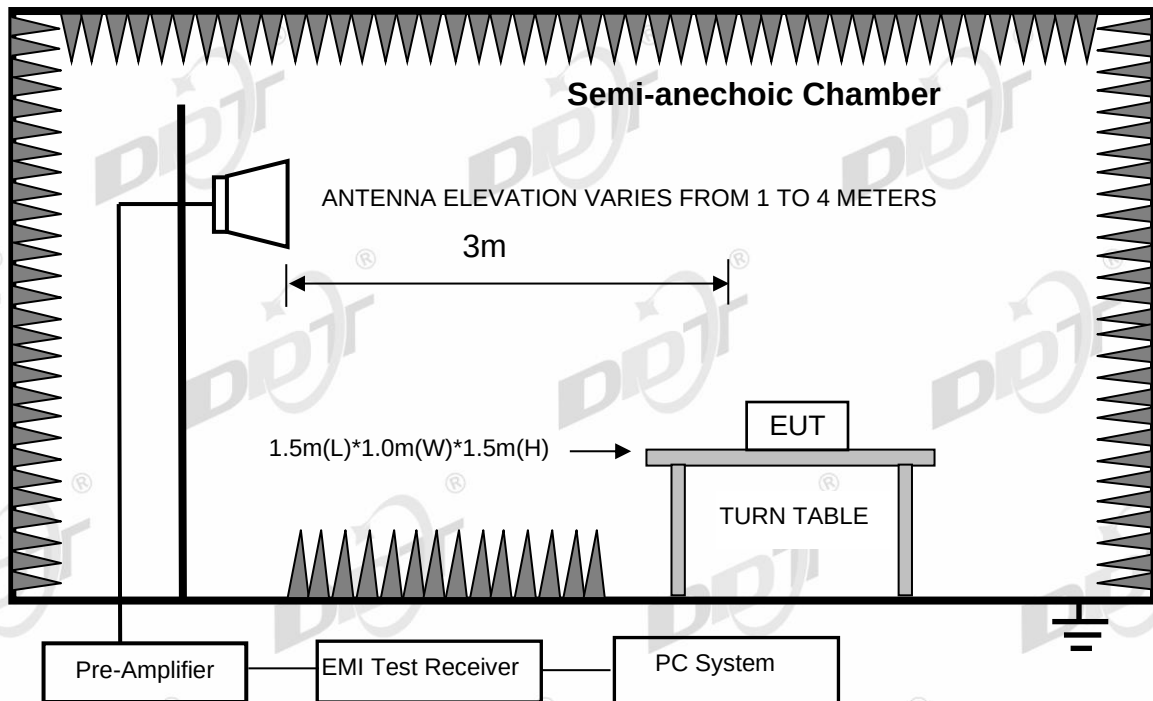
Date: 12.JUL.2022 14:02:26

BLE 1M ANT1 2480 1000~26500



10. Emissions in Restricted Frequency Bands

10.1. Block diagram of test setup



10.2. Limit

All restriction band should comply with 15.209, other emission should be at least 20 dB below the fundamental.

10.3. Test procedure

Same with clause 8.3 except change investigated frequency range from 2310 MHz to 2410 MHz and 2475 MHz to 2500 MHz.

Remark: All restriction band have been tested, and only the worst case is shown in report.

10.4. Test result

Pass. (See below detailed test result)

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

D:\E3 6.111\2022 Report Data\Q22070803-2E LRC\FCC
ABOVE 1G .EM6

Test Date : 2022-07-12

Tested By : James Gan

EUT : Remote Control

Model Number : LRC1

Power Supply : Battery

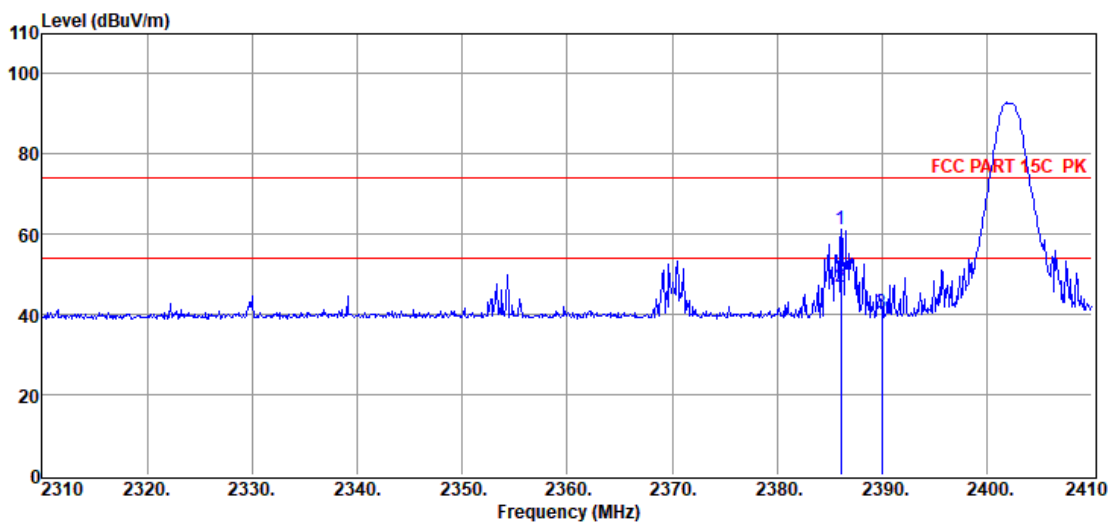
Test Mode : Tx Mode

Condition : Temp:22.2°C,Humi:55.5%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D
3#/3m/HORIZONTAL

Memo : BLE 2402

Data: 13



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2386.10	70.93	27.39	39.59	1.71	0.72	61.16	74.00	-12.84	Peak	HORIZONTAL
2	2386.10	56.76	27.39	39.59	1.71	0.72	46.99	54.00	-7.01	Average	HORIZONTAL
3	2390.00	50.07	27.40	39.60	1.71	0.72	40.30	74.00	-33.70	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

D:\E3 6.111\2022 Report Data\Q22070803-2E LRC\FCC
ABOVE 1G .EM6

Test Date : 2022-07-12

Tested By : James Gan

EUT : Remote Control

Model Number : LRC1

Power Supply : Battery

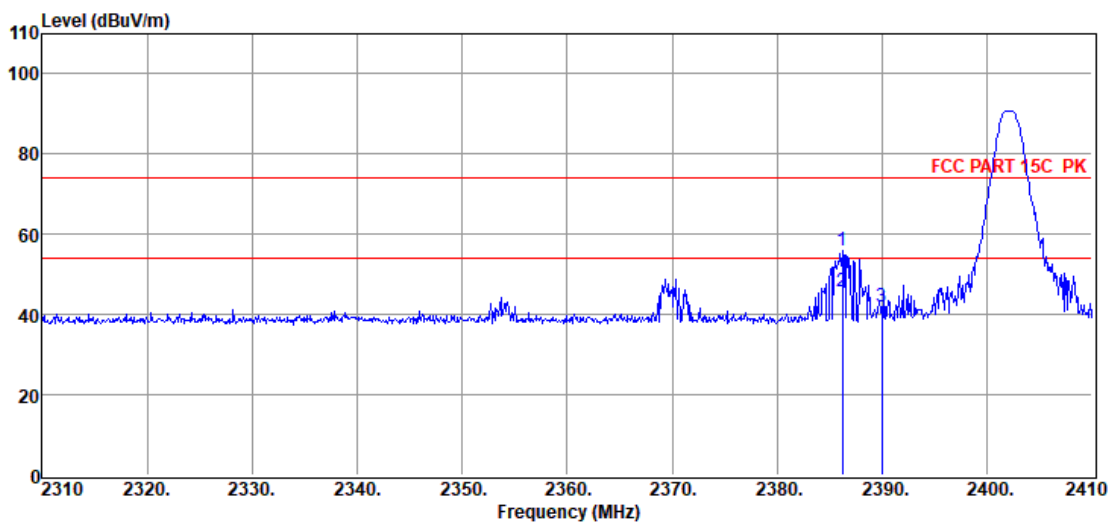
Test Mode : Tx Mode

Condition : Temp:22.2°C,Humi:55.5%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D 3#/3m/VERTICAL

Memo : BLE 2402

Data: 14



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2386.20	65.73	27.40	39.59	1.71	0.72	55.97	74.00	-18.03	Peak	VERTICAL
2	2386.20	55.51	27.40	39.59	1.71	0.72	45.75	54.00	-8.25	Average	VERTICAL
3	2390.00	51.89	27.40	39.60	1.71	0.72	42.12	74.00	-31.88	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

D:\E3 6.111\2022 Report Data\Q22070803-2E LRC\FCC ABOVE 1G .EM6

Test Date : 2022-07-12

Tested By : James Gan

EUT : Remote Control

Model Number : LRC1

Power Supply : Battery

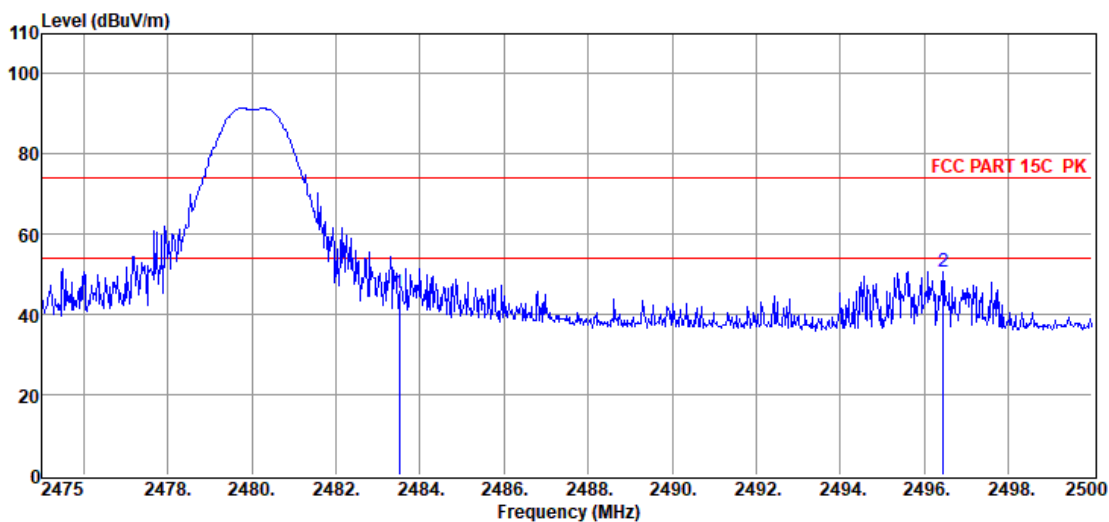
Test Mode : Tx Mode

Condition : Temp:22.2°C,Humi:55.5%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D
3#/3m/HORIZONTAL

Memo : BLE 2480

Data: 15



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	55.02	27.57	39.64	1.74	0.73	45.42	74.00	-28.58	Peak	HORIZONTAL
2	2496.45	60.41	27.59	39.65	1.74	0.73	50.82	74.00	-23.18	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

D:\E3 6.111\2022 Report Data\Q22070803-2E LRC\FCC ABOVE 1G .EM6

Test Date : 2022-07-12

Tested By : James Gan

EUT : Remote Control

Model Number : LRC1

Power Supply : Battery

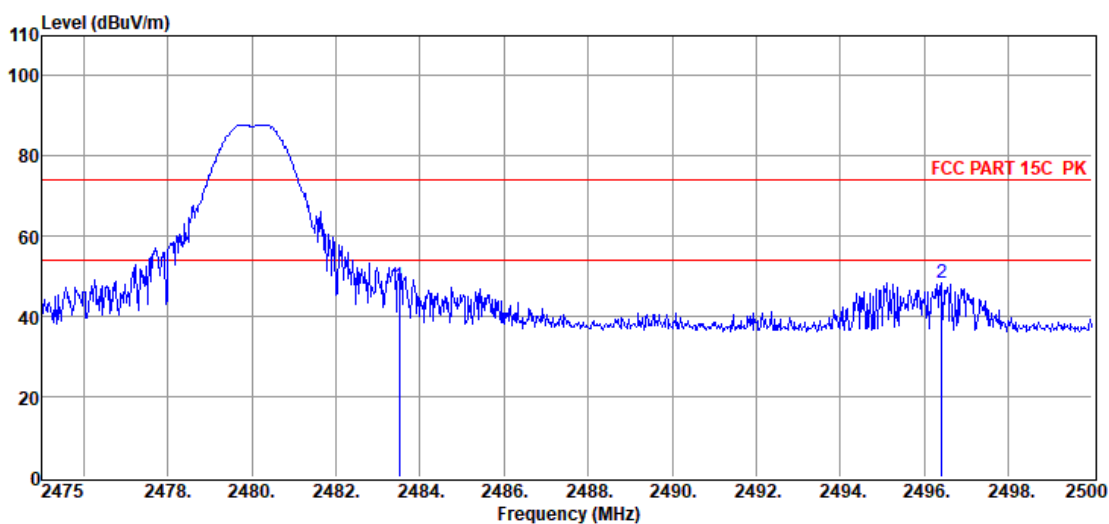
Test Mode : Tx Mode

Condition : Temp:22.2°C,Humi:55.5%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D 3#/3m/VERTICAL

Memo : BLE 2480

Data: 16



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	57.36	27.57	39.64	1.74	0.73	47.76	74.00	-26.24	Peak	VERTICAL
2	2496.43	57.87	27.59	39.65	1.74	0.73	48.28	74.00	-25.72	Peak	VERTICAL

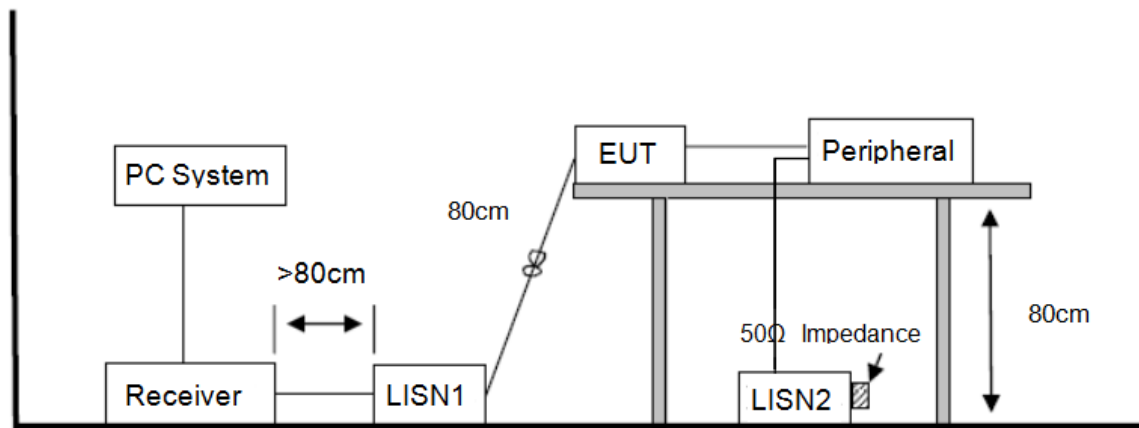
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

11. Power Line Conducted Emission

11.1. Block diagram of test setup



11.2. Power line conducted emission limits

Frequency	Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150 kHz ~ 500 kHz	66 ~ 56*	56 ~ 46*
500 kHz ~ 5 MHz	56	46
5 MHz ~ 30 MHz	60	50

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

11.3. Test procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80 cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.4 and test equipment as described in clause 10.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest

emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

11.4. Test result

N/A.

This device is powered by battery only.

12. Antenna Requirements

12.1. Limit

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

12.2. Result

The product is PCB antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain is 2.0 dBi.