

Appendix A: Test Results of Bluetooth Low Energy

APPENDIX A: TEST RESULTS OF BLUETOOTH LOW ENERGY	1
APPENDIX A.1: TEST RESULTS OF CONDUCTED POWER SPECTRAL DENSITY	2
APPENDIX A.2: TEST RESULTS OF 6dB BANDWIDTH	5
APPENDIX A.3: TEST RESULTS OF 99% BANDWIDTH	8
APPENDIX A.4: TEST RESULTS OF CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 kHz BANDWIDTH	11
<i>Band Edge</i>	<i>11</i>
<i>Conducted Spurious Emission</i>	<i>14</i>
APPENDIX A.5: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS	21
30 MHz - 1GHz	21
1GHz - 18GHz	23
30MHz - 1GHz for co-location	35
1GHz - 18GHz for co-location	37
APPENDIX A.6: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS	41
APPENDIX A.7: TEST RESULTS OF CONDUCTED EMISSION ON AC MAINS	49

Appendix A.1: Test Results of Conducted Power Spectral Density

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	1.37	≤8.00	PASS
		2440	1.46	≤8.00	PASS
		2480	1.06	≤8.00	PASS
BLE_2M	Ant1	2402	1.15	≤8.00	PASS
		2440	1.21	≤8.00	PASS
		2480	0.75	≤8.00	PASS

BLE 1M Ant1 2402



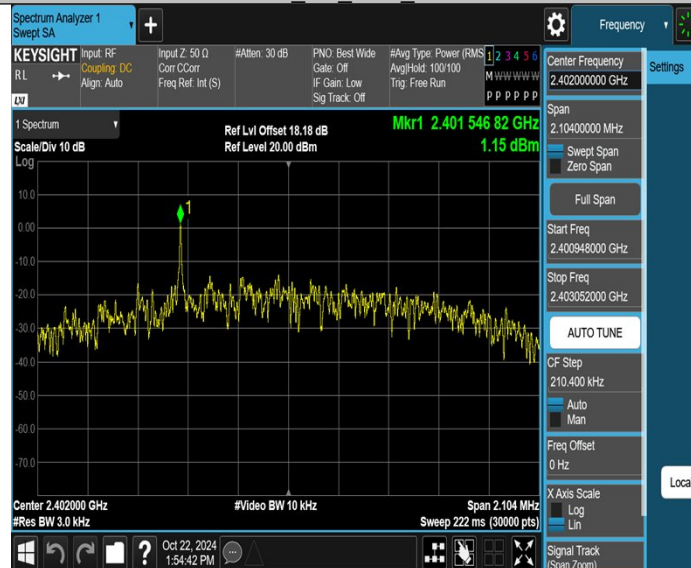
BLE 1M Ant1 2440



BLE 1M Ant1 2480



BLE 2M Ant1 2402



BLE 2M Ant1 2440

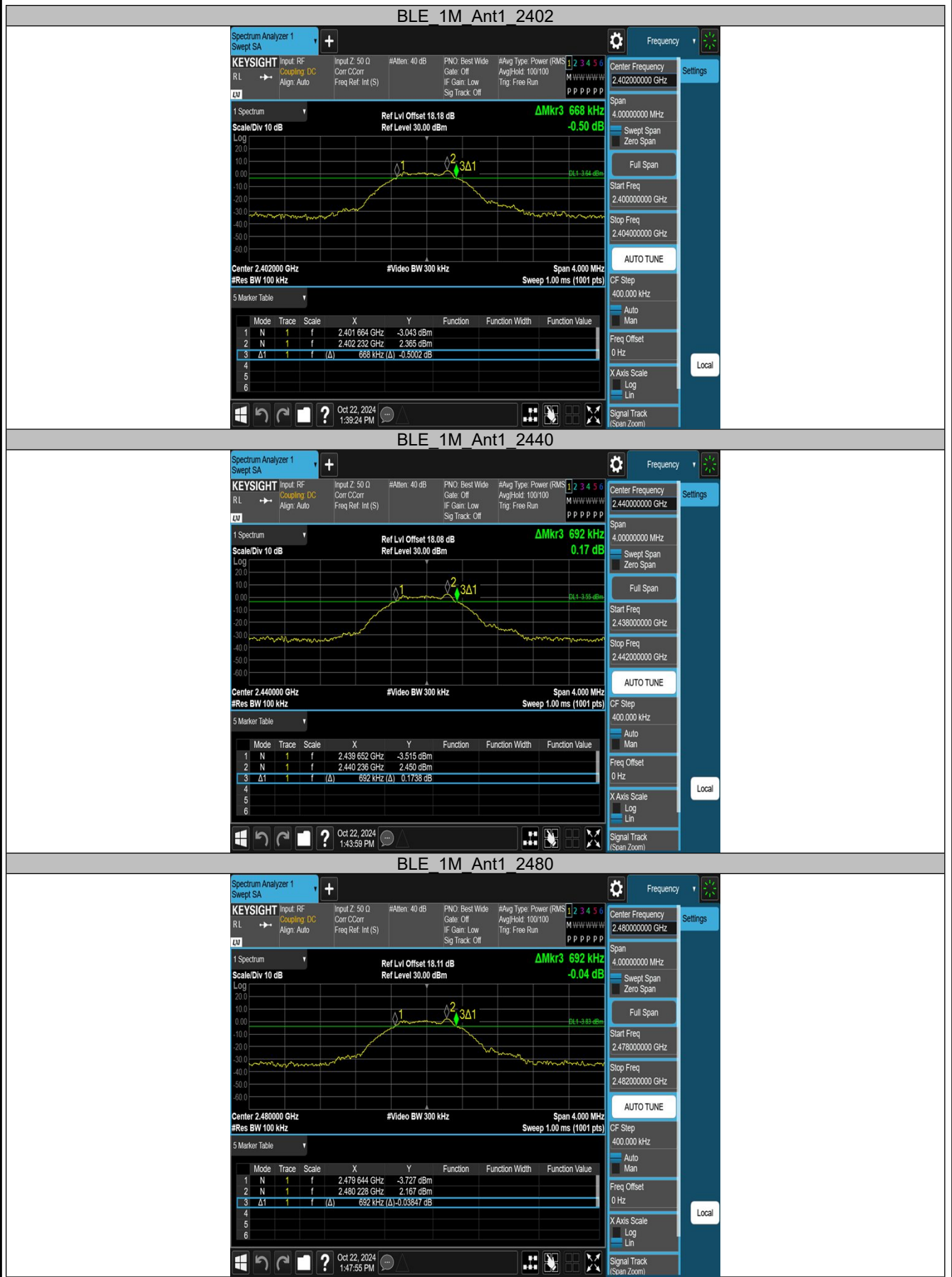


BLE 2M Ant1 2480



Appendix A.2: Test Results of 6dB Bandwidth

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.668	2401.664	2402.332	0.5	PASS
		2440	0.692	2439.652	2440.344	0.5	PASS
		2480	0.692	2479.644	2480.336	0.5	PASS
BLE_2M	Ant1	2402	1.052	2401.464	2402.516	0.5	PASS
		2440	1.032	2439.468	2440.500	0.5	PASS
		2480	1.060	2479.452	2480.512	0.5	PASS



BLE 2M Ant1 2402



BLE 2M Ant1 2440



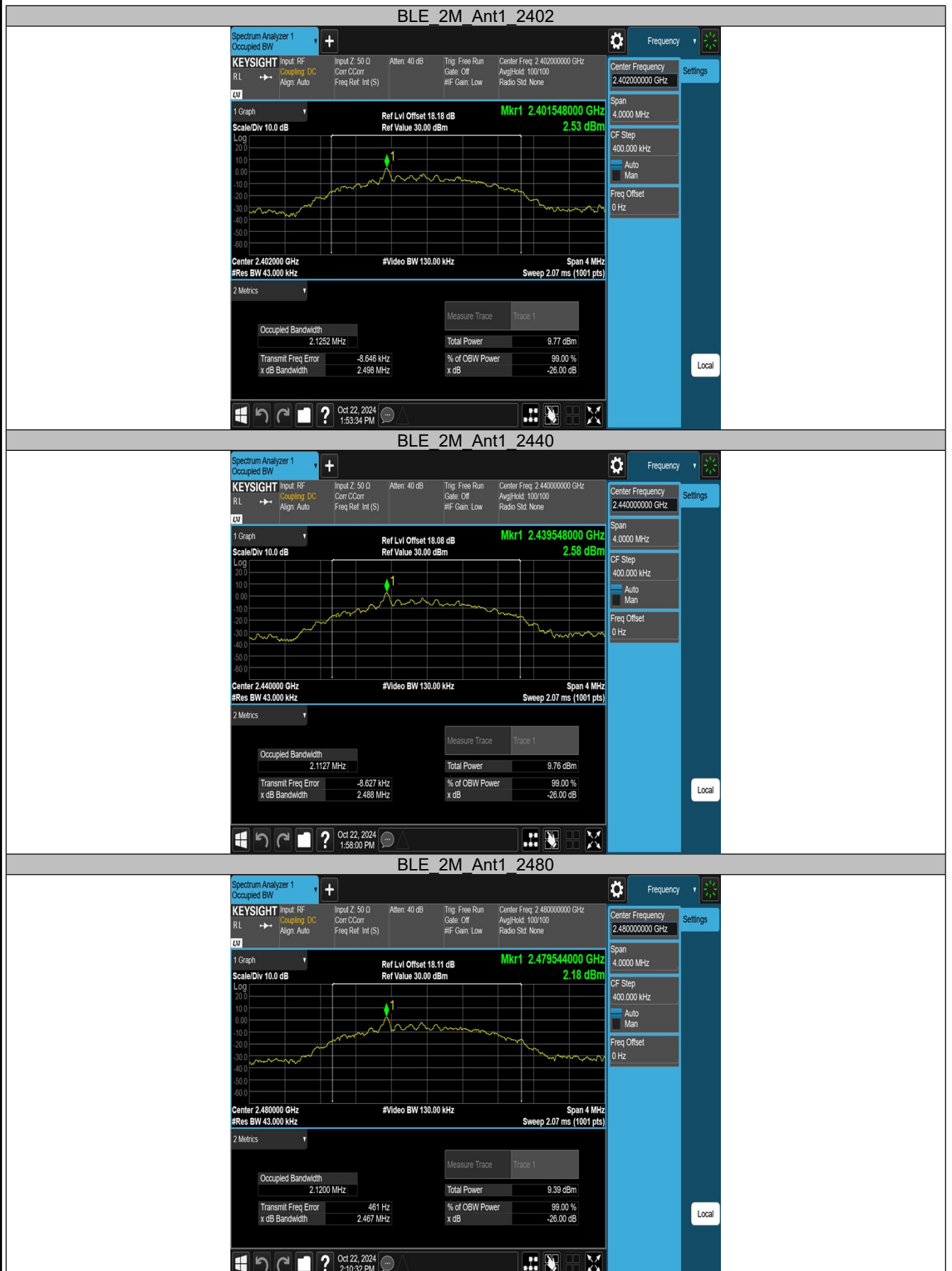
BLE 2M Ant1 2480



Appendix A.3: Test Results of 99% Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0703	2401.4649	2402.5352	---	PASS
		2440	1.0600	2439.4675	2440.5275	---	PASS
		2480	1.0837	2479.4524	2480.5361	---	PASS
BLE_2M	Ant1	2402	2.1252	2400.9288	2403.0540	---	PASS
		2440	2.1127	2438.9350	2441.0477	---	PASS
		2480	2.1200	2478.9405	2481.0605	---	PASS





Appendix A.4: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Band Edge

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.55	-38.91	≤-17.45	PASS
		High	2480	2.27	-41.89	≤-17.73	PASS
BLE_2M	Ant1	Low	2402	2.55	-32.26	≤-17.45	PASS
		High	2480	2.29	-43.12	≤-17.71	PASS

BLE 1M Ant1 Low 2402

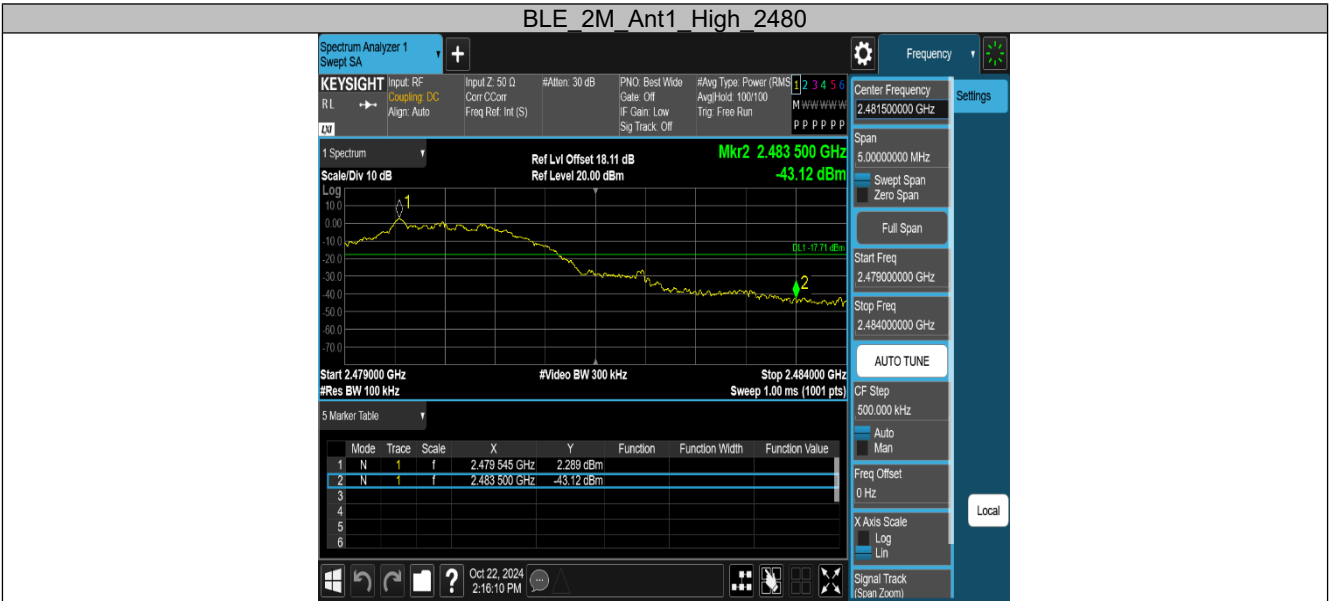


BLE 1M Ant1 High 2480



BLE 2M Ant1 Low 2402





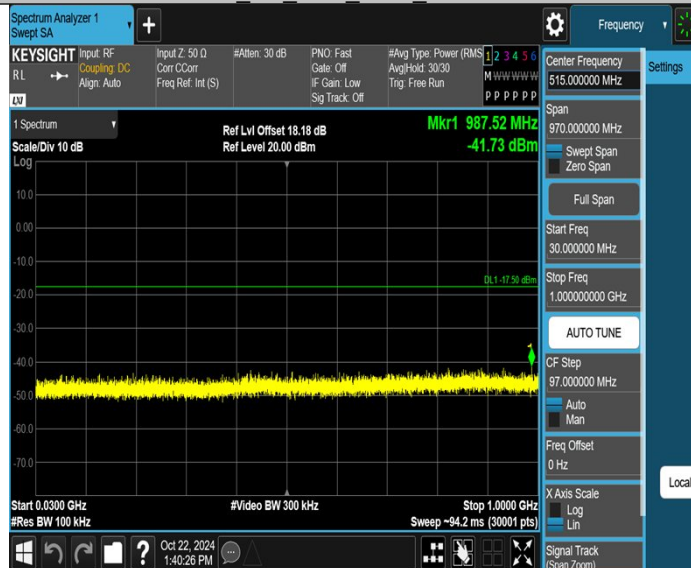
Conducted Spurious Emission

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	2.50	2.50	---	PASS
			30~1000	2.50	-41.73	≤-17.5	PASS
			1000~26500	2.50	-32.28	≤-17.5	PASS
		2440	Reference	2.59	2.59	---	PASS
			30~1000	2.59	-42.01	≤-17.41	PASS
			1000~26500	2.59	-33.25	≤-17.41	PASS
		2480	Reference	2.19	2.19	---	PASS
			30~1000	2.19	-41.85	≤-17.81	PASS
			1000~26500	2.19	-32.52	≤-17.81	PASS
BLE_2M	Ant1	2402	Reference	2.60	2.60	---	PASS
			30~1000	2.60	-42.28	≤-17.4	PASS
			1000~26500	2.60	-32.75	≤-17.4	PASS
		2440	Reference	2.65	2.65	---	PASS
			30~1000	2.65	-41.69	≤-17.35	PASS
			1000~26500	2.65	-32.31	≤-17.35	PASS
		2480	Reference	2.25	2.25	---	PASS
			30~1000	2.25	-41.72	≤-17.75	PASS
			1000~26500	2.25	-32.95	≤-17.75	PASS

BLE 1M Ant1 2402 0~Reference



BLE 1M Ant1 2402 30~1000



BLE 1M Ant1 2402 1000~26500



BLE 1M Ant1 2440 0~Reference



BLE 1M Ant1 2440 30~1000



BLE 1M Ant1 2440 1000~26500



BLE 1M Ant1 2480 0~Reference



BLE 1M Ant1 2480 30~1000



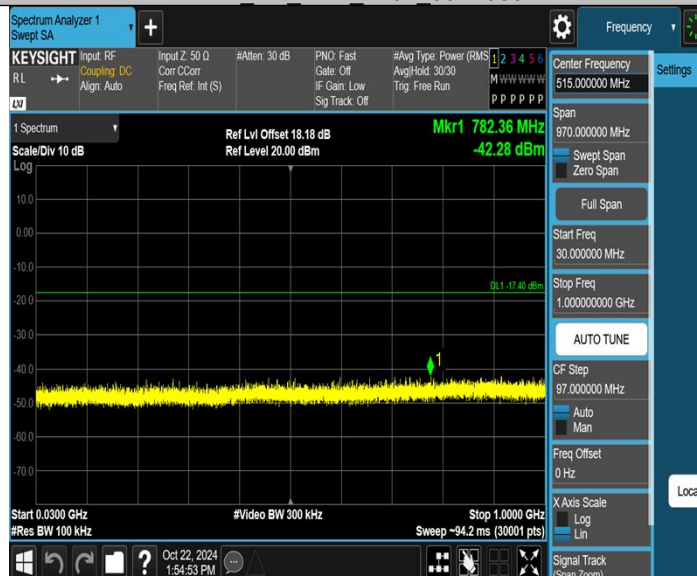
BLE 1M Ant1 2480 1000~26500



BLE 2M Ant1 2402 0~Reference



BLE 2M Ant1 2402 30~1000



BLE 2M Ant1 2402 1000~26500



BLE 2M Ant1 2440 0~Reference



BLE 2M Ant1 2440 30~1000



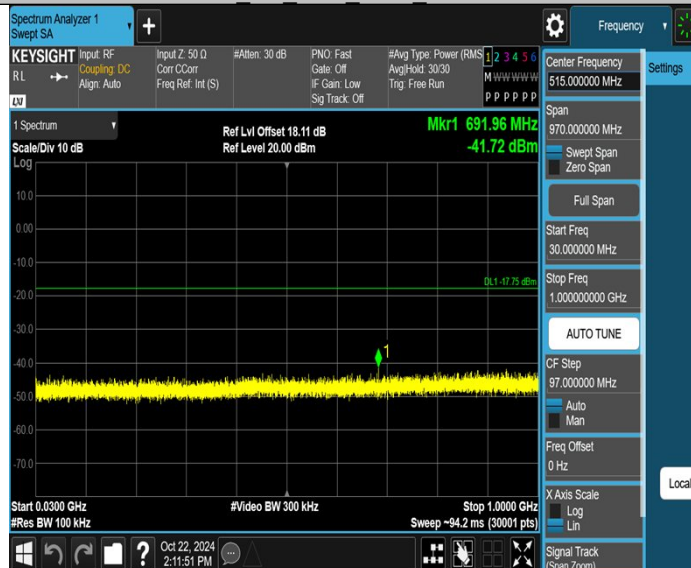
BLE 2M Ant1 2440 1000~26500



BLE 2M Ant1 2480 0~Reference



BLE 2M Ant1 2480 30~1000



BLE 2M Ant1 2480 1000~26500



Appendix A.5: Test Results of Radiated Spurious Emissions

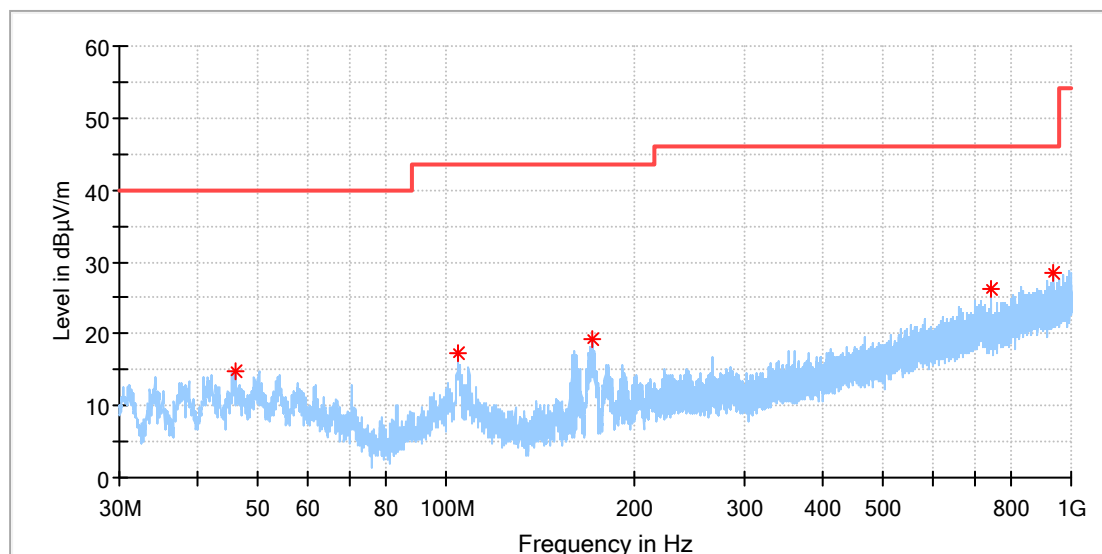
Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30 MHz - 1GHz

EUT Information

EUT Name:	D-RTK 3 Multifunctional Station
Model:	R600BS
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168492000/A003834149-006
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

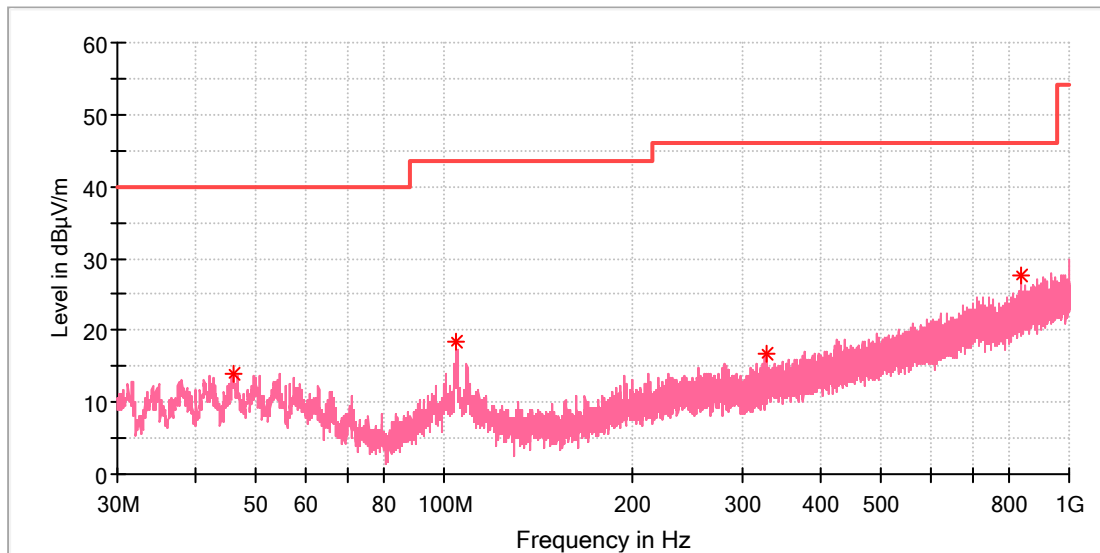
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
46.116923	14.80	40.00	25.20	100.0	H	22.0	-18.8
104.727308	17.20	43.50	26.30	100.0	H	110.0	-18.9
171.433462	19.38	43.50	24.12	100.0	H	307.0	-21.2
742.502308	26.35	46.00	19.65	100.0	H	49.0	-7.2
936.950000	28.50	46.00	17.50	100.0	H	316.0	-4.4

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

EUT Information

EUT Name: D-RTK 3 Multifunctional Station
Model: R600BS
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 168492000/A003834149-006
Test Voltage: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
46.116923	13.88	40.00	26.12	100.0	V	240.0	-18.8
104.764615	18.28	43.50	25.22	100.0	V	224.0	-18.9
328.648077	16.69	46.00	29.31	100.0	V	256.0	-15.3
834.615000	27.51	46.00	18.49	100.0	V	37.0	-5.6

Final Result

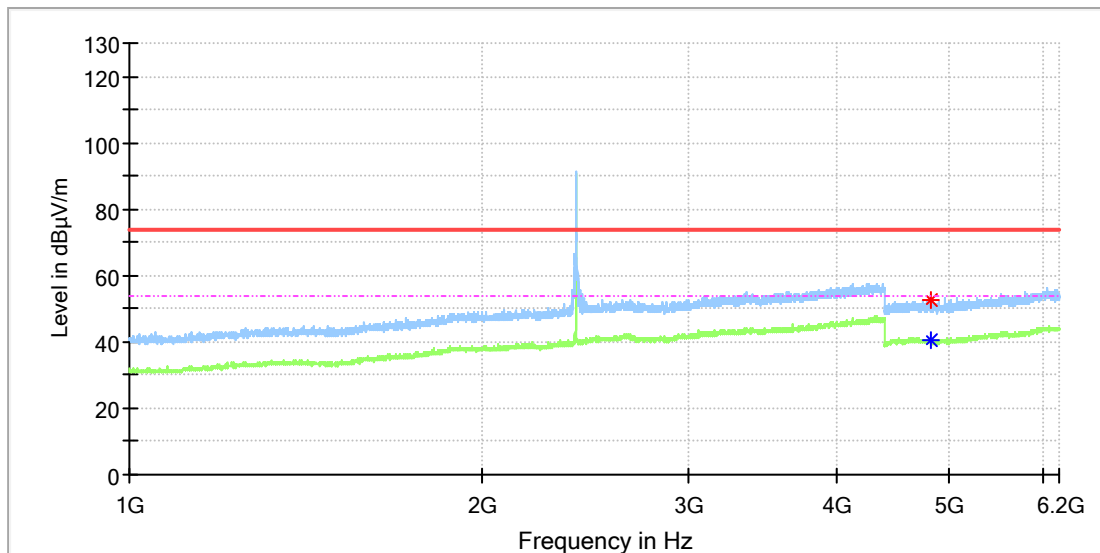
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

1GHz - 18GHz

Note: The highest waveform in the figure is Bluetooth Fundamental.

EUT Information

EUT Name:	D-RTK 3 Multifunctional Station
Model:	R600BS
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168492000/A003834149-006
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

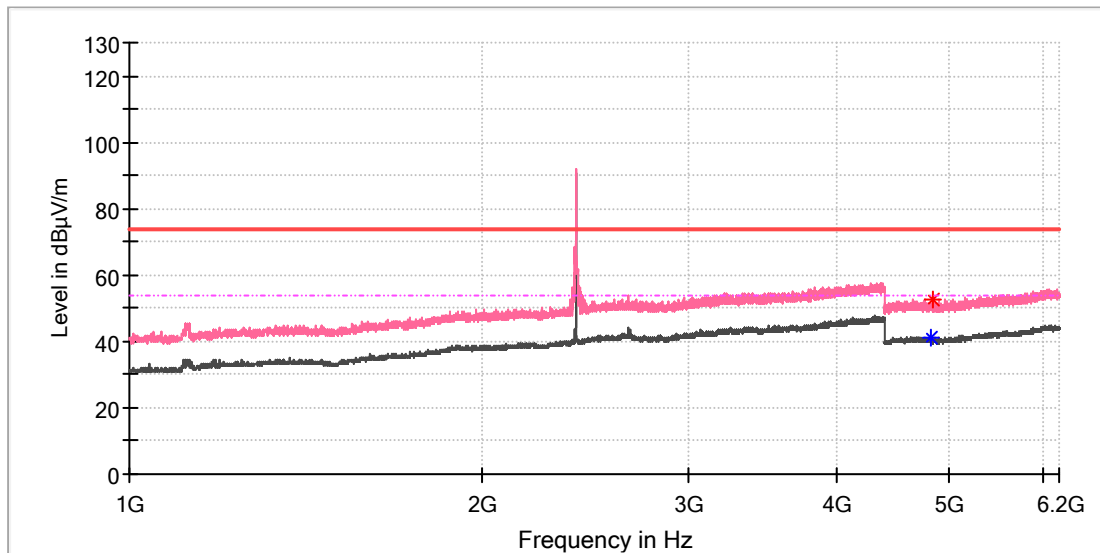
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4815.500000	52.68	---	74.00	21.32	150.0	H	324.0	13.3
4820.500000	---	40.74	54.00	13.26	150.0	H	174.0	13.3

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: D-RTK 3 Multifunctional Station
Model: R600BS
Test Mode: BLE 1M_Low channel
Order No/Sample No: 168492000/A003834149-006
Test Voltage: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

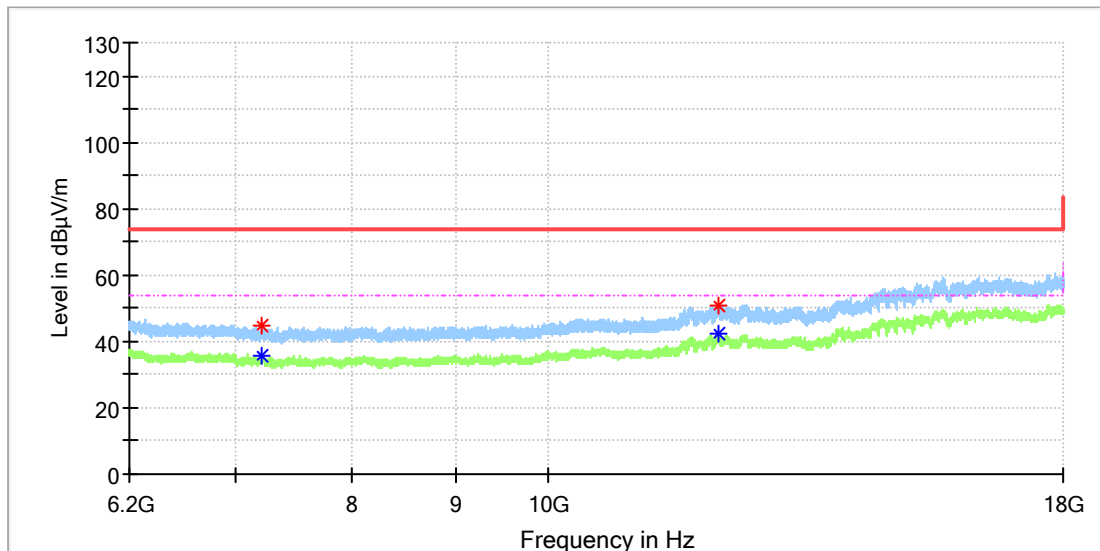
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4821.000000	---	41.24	54.00	12.76	150.0	V	199.0	13.3
4845.500000	52.38	---	74.00	21.62	150.0	V	110.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: D-RTK 3 Multifunctional Station
Model: R600BS
Test Mode: BLE 1M_Low channel
Order No/Sample No: 168492000/A003834149-006
Test Voltage: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

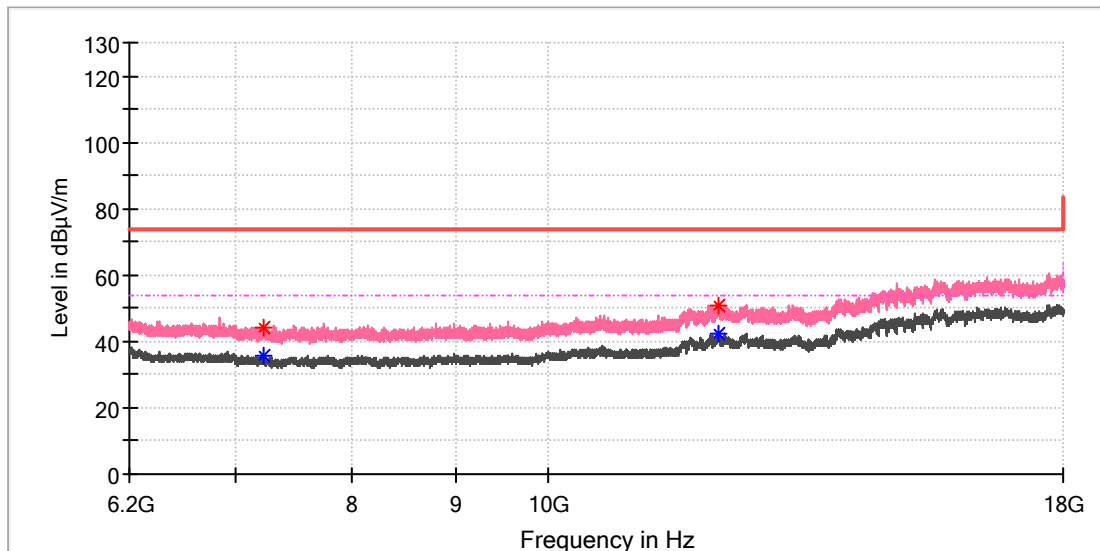
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7212.341667	---	35.70	54.00	18.30	150.0	H	0.0	8.7
7217.750000	44.52	---	74.00	29.48	150.0	H	69.0	8.7
12150.641667	---	42.62	54.00	11.38	150.0	H	284.0	16.7
12152.116667	50.68	---	74.00	23.32	150.0	H	349.0	16.6

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: D-RTK 3 Multifunctional Station
Model: R600BS
Test Mode: BLE 1M_Low channel
Order No/Sample No: 168492000/A003834149-006
Test Voltage: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

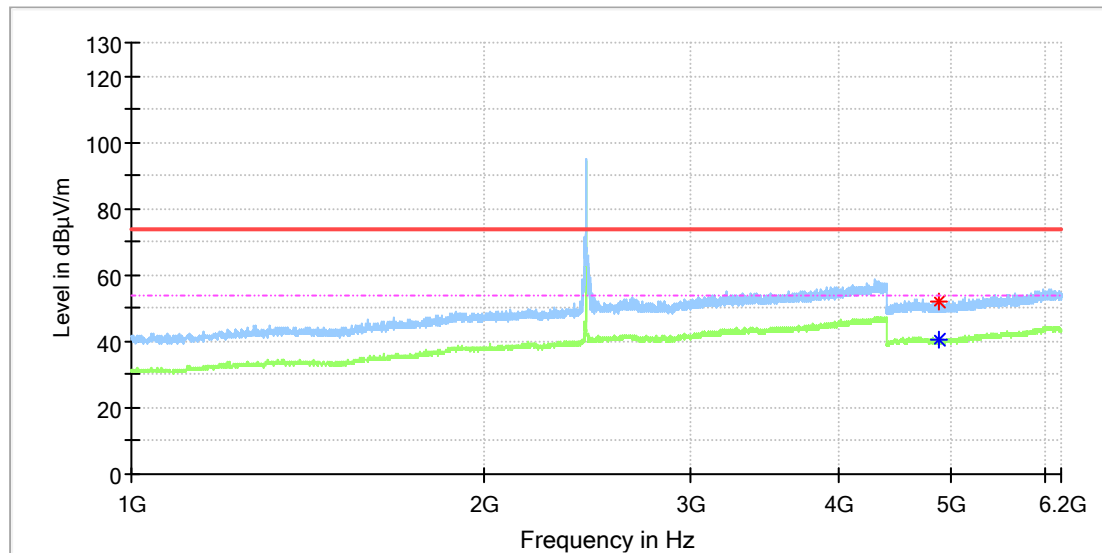
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7225.125000	43.85	---	74.00	30.15	150.0	V	191.0	8.7
7229.550000	---	35.81	54.00	18.19	150.0	V	162.0	8.6
12148.675000	---	42.17	54.00	11.83	150.0	V	227.0	16.7
12151.133333	51.05	---	74.00	22.95	150.0	V	11.0	16.7

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: D-RTK 3 Multifunctional Station
Model: R600BS
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 168492000/A003834149-006
Test Voltage: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

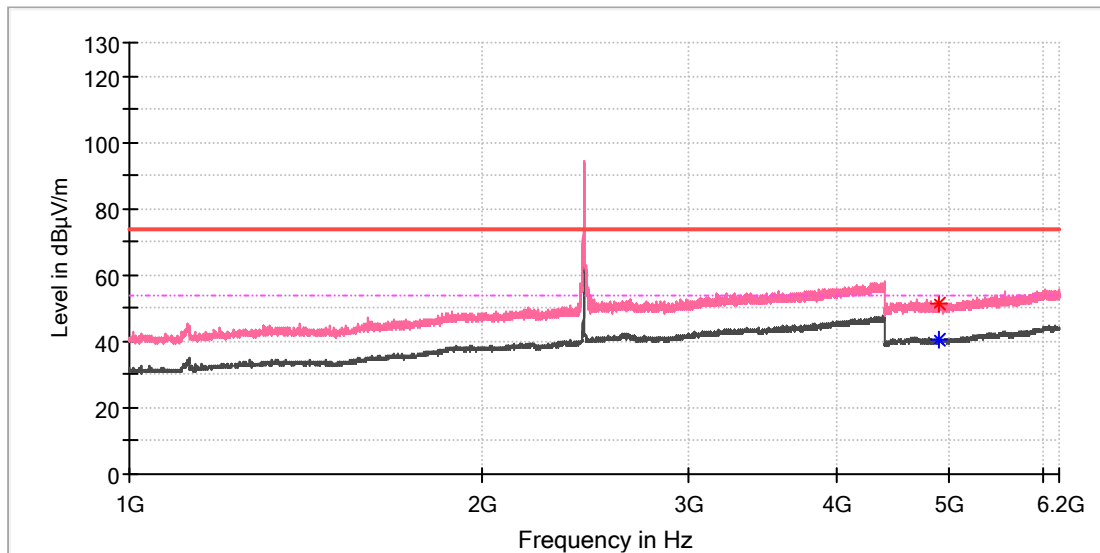
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4869.000000	52.19	---	74.00	21.81	150.0	H	109.0	13.3
4871.500000	---	40.56	54.00	13.44	150.0	H	55.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: D-RTK 3 Multifunctional Station
Model: R600BS
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 168492000/A003834149-006
Test Voltage: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

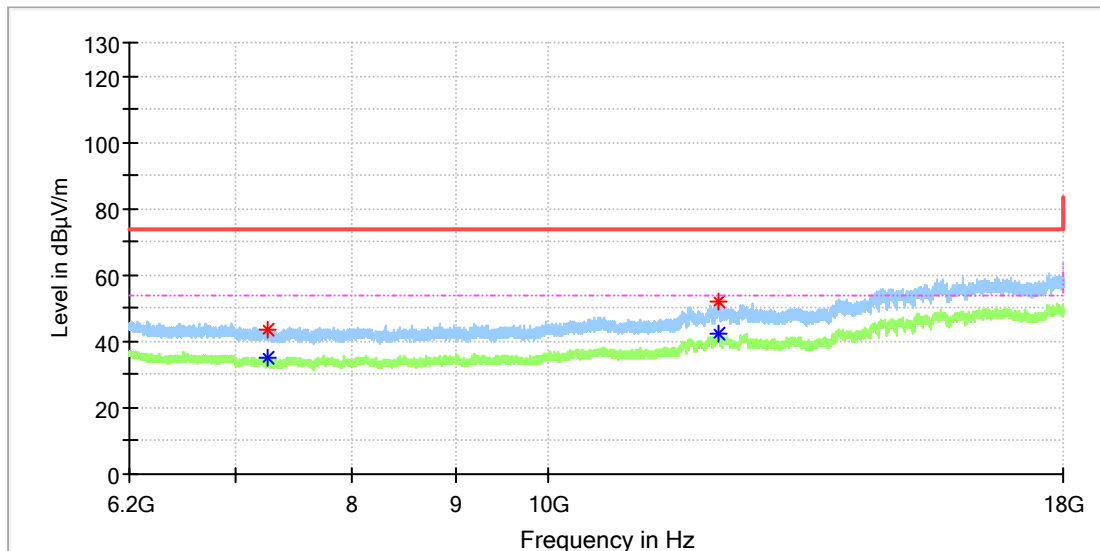
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4895.000000	51.56	---	74.00	22.44	150.0	V	231.0	13.3
4903.500000	---	40.63	54.00	13.37	150.0	V	9.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: D-RTK 3 Multifunctional Station
Model: R600BS
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 168492000/A003834149-006
Test Voltage: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

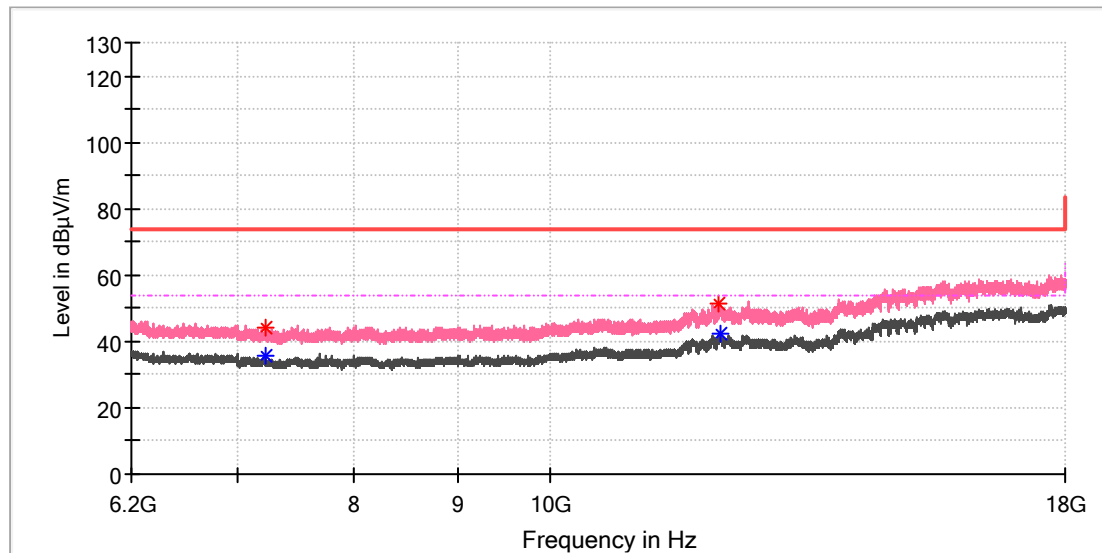
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7262.491667	43.33	---	74.00	30.67	150.0	H	4.0	8.5
7265.441667	---	34.99	54.00	19.01	150.0	H	122.0	8.5
12145.233333	---	42.37	54.00	11.63	150.0	H	40.0	16.6
12150.150000	51.83	---	74.00	22.17	150.0	H	140.0	16.7

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: D-RTK 3 Multifunctional Station
Model: R600BS
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 168492000/A003834149-006
Test Voltage: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

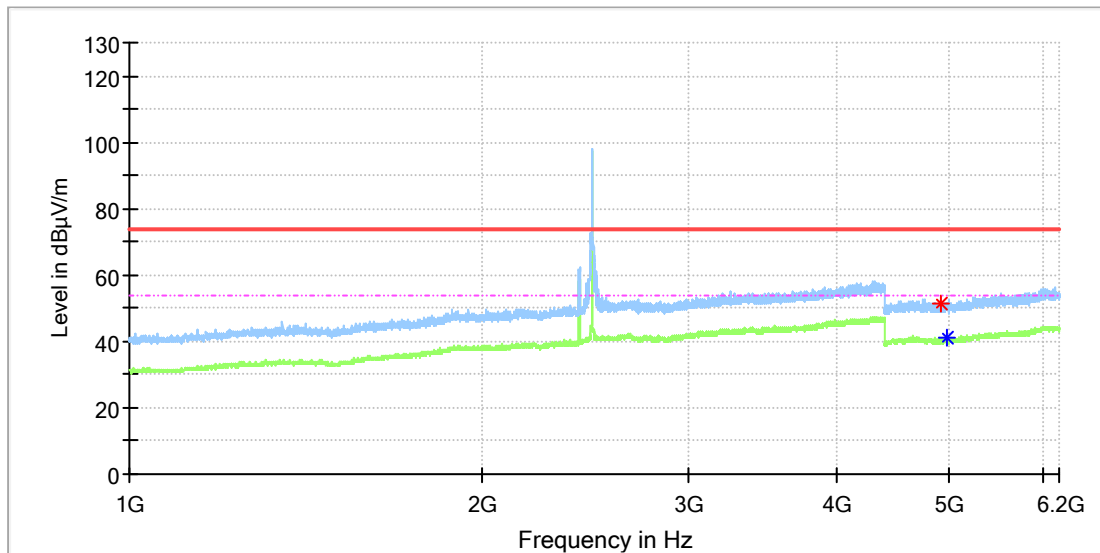
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7219.716667	43.89	---	74.00	30.11	150.0	V	141.0	8.7
7219.716667	---	35.40	54.00	18.60	150.0	V	141.0	8.7
12118.191667	51.13	---	74.00	22.87	150.0	V	105.0	15.9
12149.658333	---	42.42	54.00	11.58	150.0	V	346.0	16.7

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: D-RTK 3 Multifunctional Station
Model: R600BS
Test Mode: BLE 1M_High channel
Order No/Sample No: 168492000/A003834149-006
Test Voltage: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

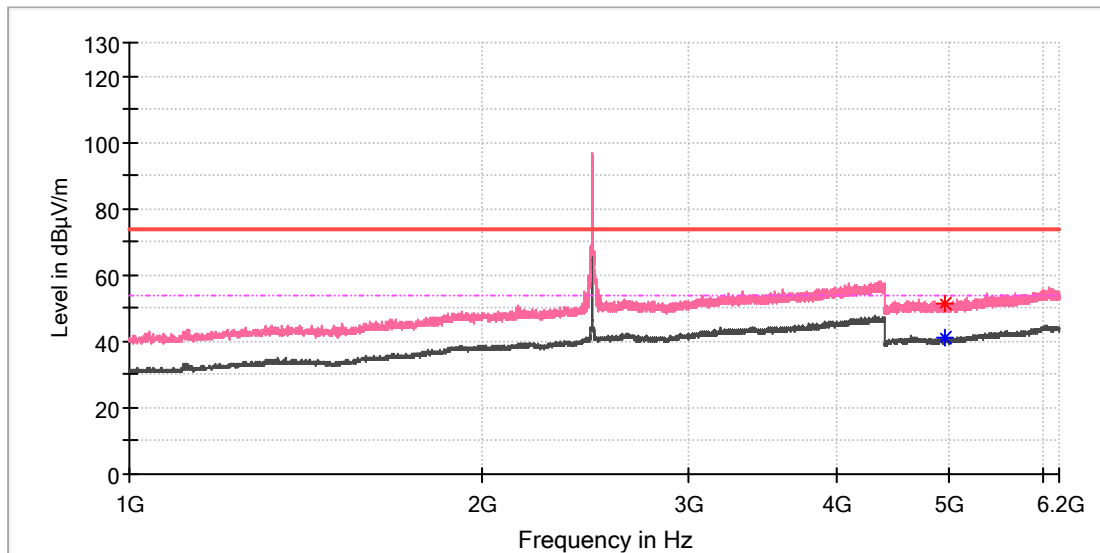
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4924.000000	51.70	---	74.00	22.30	150.0	H	166.0	13.3
4969.500000	---	40.88	54.00	13.12	150.0	H	337.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: D-RTK 3 Multifunctional Station
Model: R600BS
Test Mode: BLE 1M_High channel
Order No/Sample No: 168492000/A003834149-006
Test Voltage: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

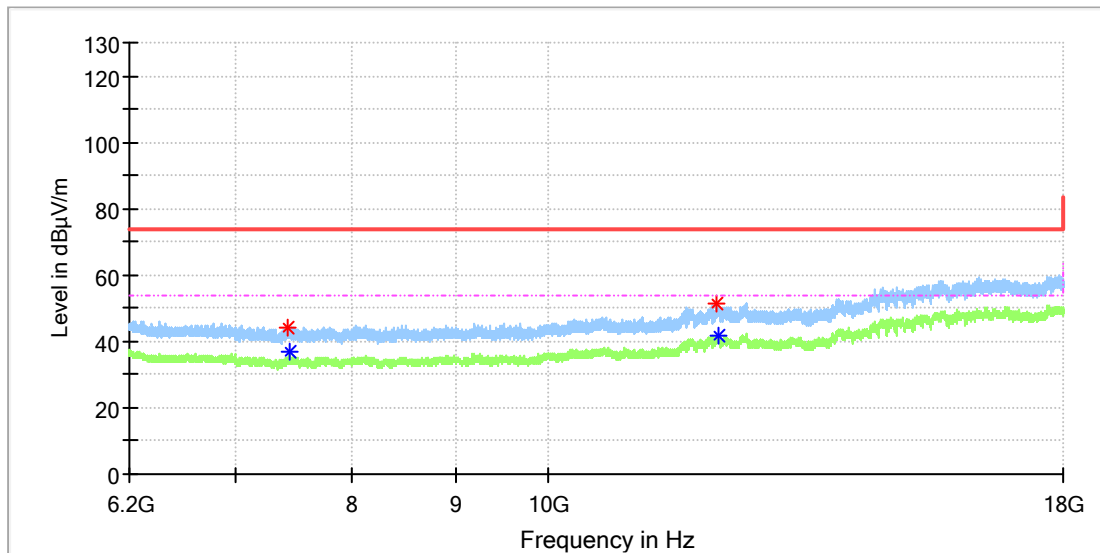
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4950.500000	51.37	---	74.00	22.63	150.0	V	180.0	13.3
4963.500000	---	40.87	54.00	13.13	150.0	V	131.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: D-RTK 3 Multifunctional Station
Model: R600BS
Test Mode: BLE 1M_High channel
Order No/Sample No: 168492000/A003834149-006
Test Voltage: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

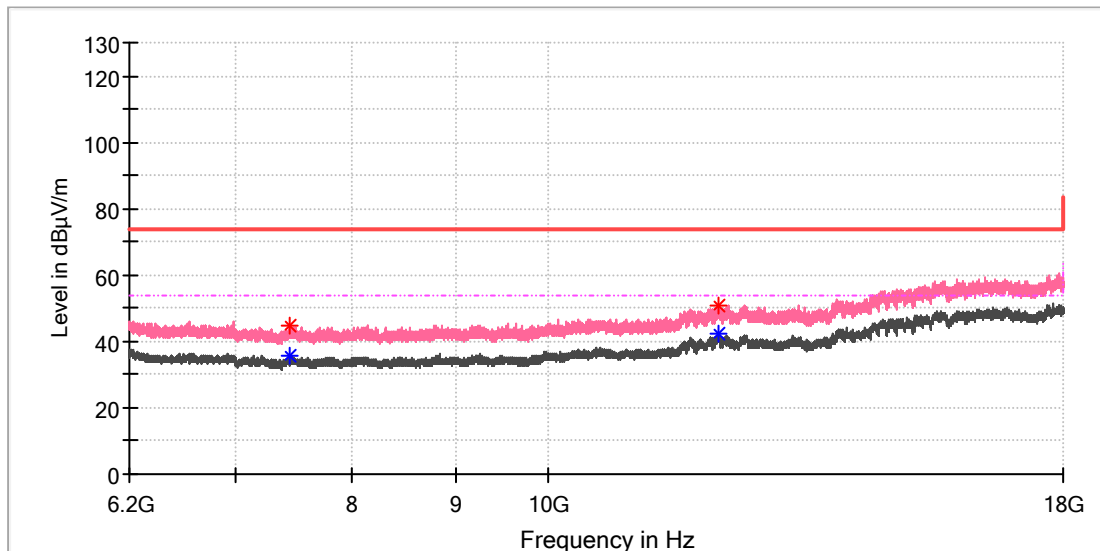
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7430.150000	44.22	---	74.00	29.78	150.0	H	348.0	8.4
7439.000000	---	36.98	54.00	17.02	150.0	H	97.0	8.4
12122.616667	51.24	---	74.00	22.76	150.0	H	259.0	16.0
12147.200000	---	41.68	54.00	12.32	150.0	H	59.0	16.7

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: D-RTK 3 Multifunctional Station
Model: R600BS
Test Mode: BLE 1M_High channel
Order No/Sample No: 168492000/A003834149-006
Test Voltage: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7445.391667	44.87	---	74.00	29.13	150.0	V	61.0	8.5
7450.308333	---	35.57	54.00	18.43	150.0	V	251.0	8.5
12145.233333	---	42.16	54.00	11.84	150.0	V	120.0	16.6
12151.133333	50.61	---	74.00	23.39	150.0	V	0.0	16.7

Final Result

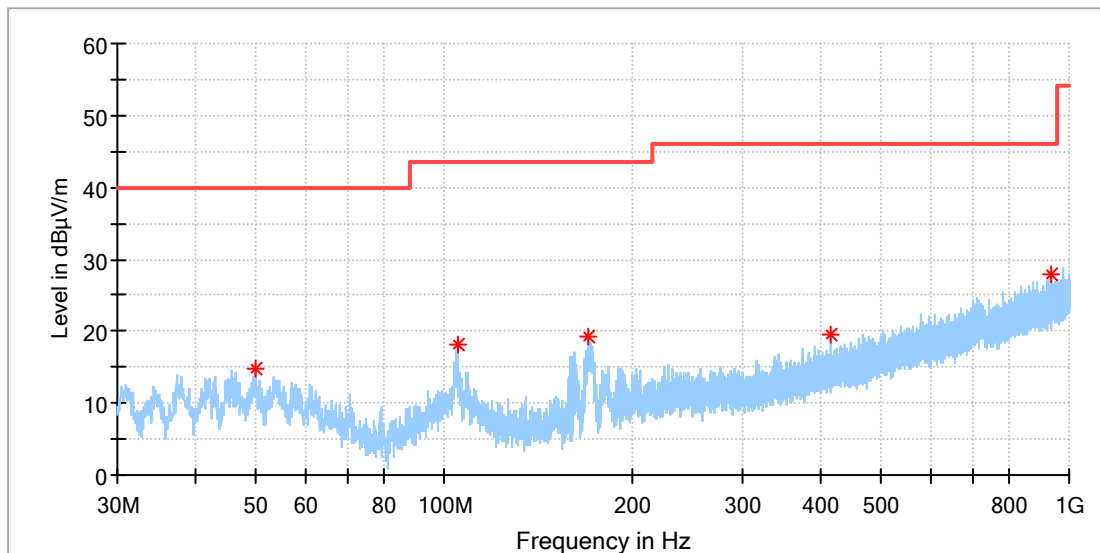
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Note: This testing was carried out on SISO mode and MIMO mode, but only the worst case (MIMO mode ANT0+3) was presented in this report.

30MHz - 1GHz for co-location

EUT Information

EUT Name:	D-RTK 3 Multifunctional Station
Model:	R600BS
Test Mode:	BLE 1M_Mid channel+SDR 5.8G_10M_5787.5MHz
Order No/Sample No:	168492000/A003834149-006
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

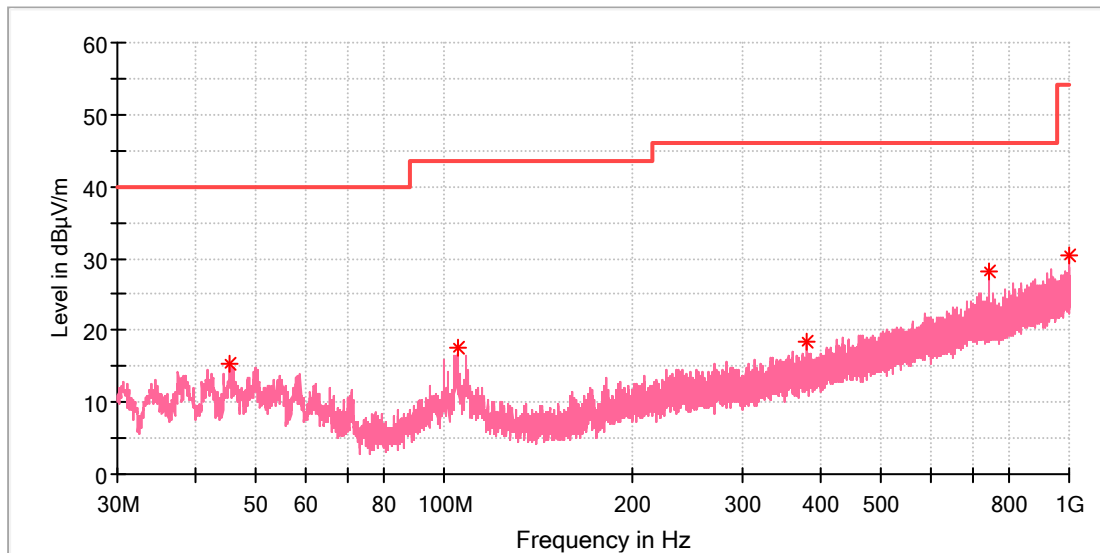
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.996923	14.79	40.00	25.21	100.0	H	297.0	-18.4
105.100385	18.21	43.50	25.29	100.0	H	5.0	-18.9
170.351539	19.14	43.50	24.36	100.0	H	59.0	-21.3
414.157308	19.53	46.00	26.47	100.0	H	322.0	-13.4
936.950000	27.91	46.00	18.09	100.0	H	203.0	-4.4

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

EUT Information

EUT Name:	D-RTK 3 Multifunctional Station
Model:	R600BS
Test Mode:	BLE 1M_Mid channel+SDR 5.8G_10M_5787.5MHz
Order No/Sample No:	168492000/A003834149-006
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.370769	15.42	40.00	24.58	100.0	V	201.0	-18.9
104.913846	17.54	43.50	25.96	100.0	V	144.0	-18.9
380.990769	18.48	46.00	27.52	100.0	V	201.0	-14.2
742.465000	28.18	46.00	17.82	100.0	V	98.0	-7.2
1000.000000	30.43	54.00	23.57	100.0	V	65.0	-3.4

Final Result

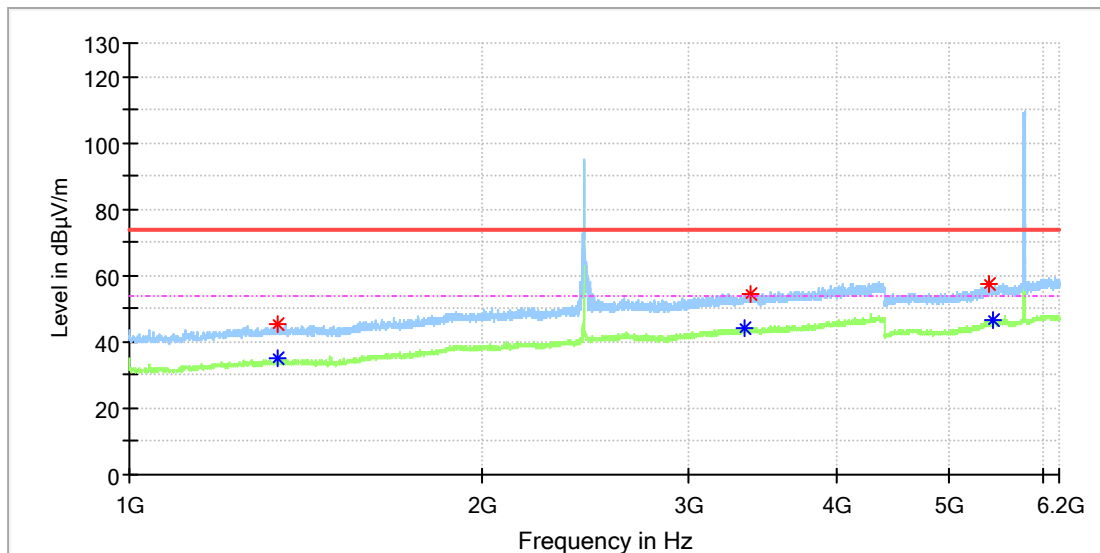
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

1GHz - 18GHz for co-location

Note: The highest waveform in the figure is Bluetooth / 5.8GHz SDR Fundamental.

EUT Information

EUT Name:	D-RTK 3 Multifunctional Station
Model:	R600BS
Test Mode:	BLE 1M_Mid channel+SDR 5.8G_10M_5787.5MHz
Order No/Sample No:	168492000/A003834149-006
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

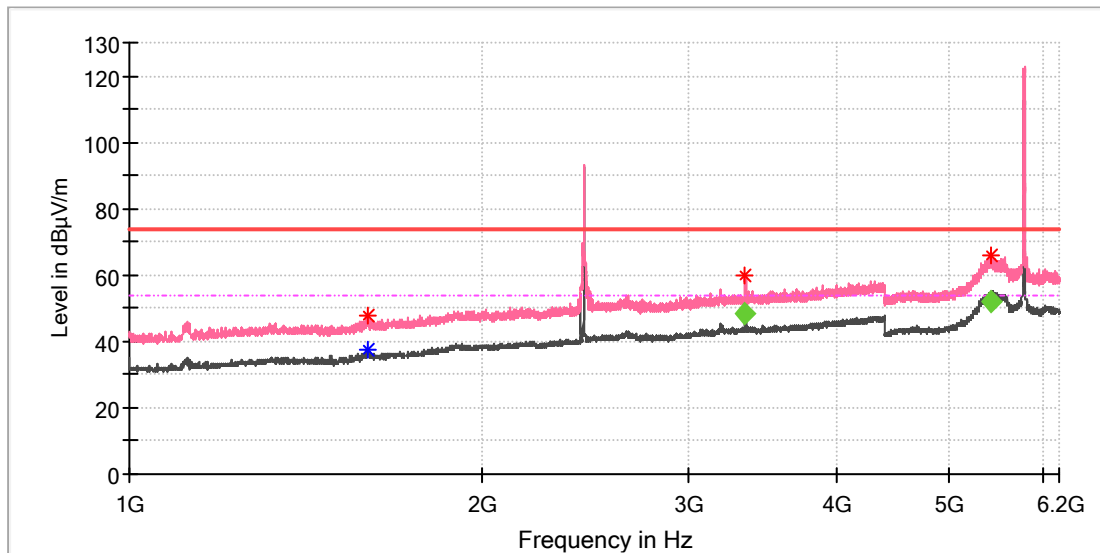
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1339.000000	45.37	---	74.00	28.63	150.0	H	13.0	3.0
1339.000000	---	34.98	54.00	19.02	150.0	H	13.0	3.0
3346.000000	---	44.32	54.00	9.68	150.0	H	97.0	10.9
3385.000000	54.48	---	74.00	19.52	150.0	H	229.0	11.1
5394.000000	57.43	---	74.00	16.57	150.0	H	319.0	14.9
5453.000000	---	46.85	54.00	7.15	150.0	H	229.0	15.0

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name:	D-RTK 3 Multifunctional Station
Model:	R600BS
Test Mode:	BLE 1M_Mid channel+SDR 5.8G_10M_5787.5MHz
Order No/Sample No:	168492000/A003834149-006
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

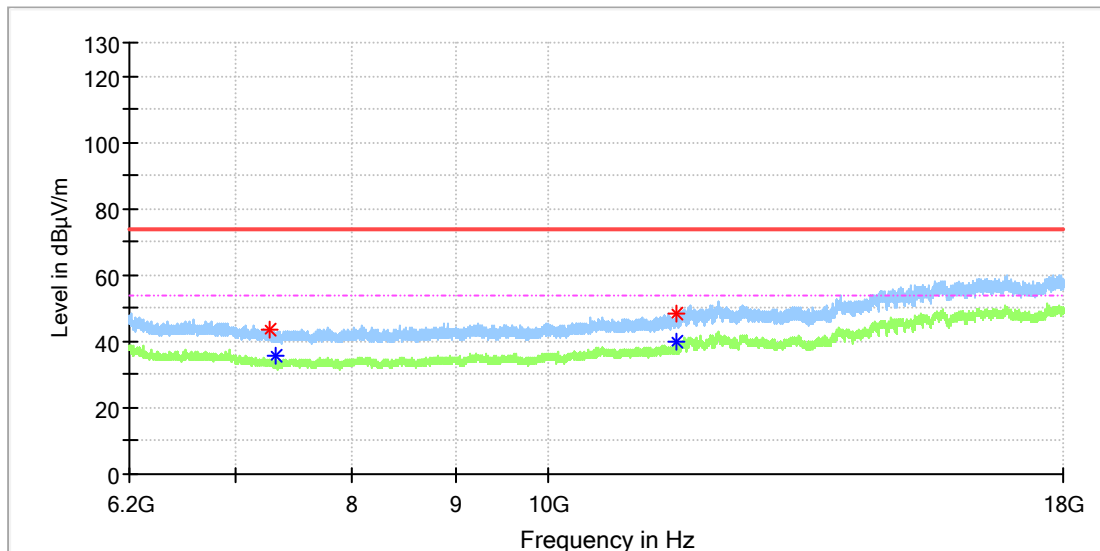
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1597.500000	---	37.42	54.00	16.58	150.0	V	255.0	3.8
1598.000000	47.53	---	74.00	26.47	150.0	V	255.0	3.8
3346.000000	60.15	---	74.00	13.85	150.0	V	262.0	10.9
5420.500000	65.96	---	74.00	8.04	150.0	V	224.0	15.0

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3348.707353	48.45	54.00	5.55	149.0	V	257.0	10.9
5419.500000	51.79	54.00	2.21	145.0	V	256.0	15.0

EUT Information

EUT Name: D-RTK 3 Multifunctional Station
Model: R600BS
Test Mode: BLE 1M_Mid channel+SDR 5.8G_10M_5787.5MHz
Order No/Sample No: 168492000/A003834149-006
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC Part 15C
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

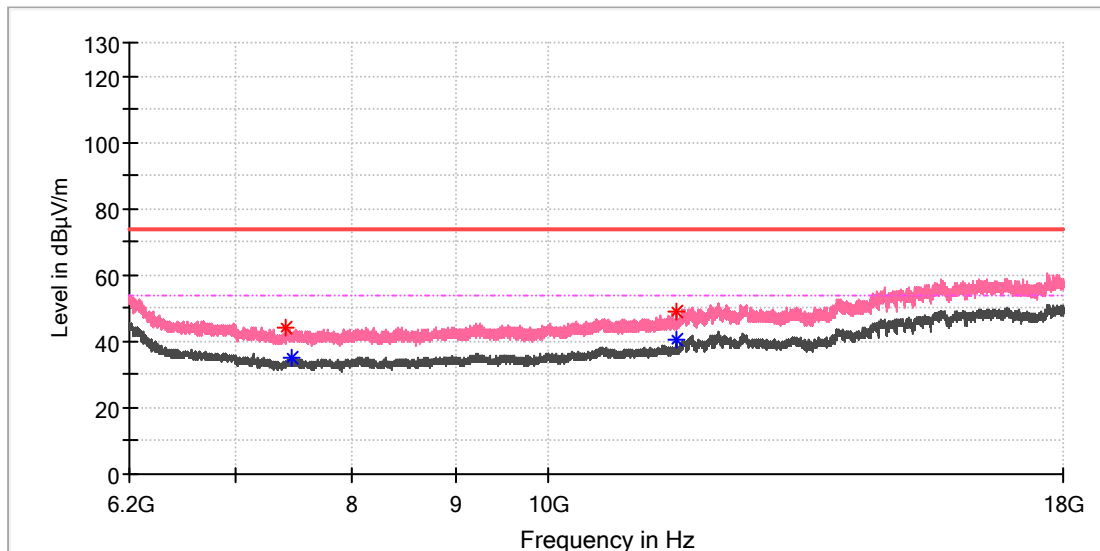
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7276.258333	43.51	---	74.00	30.49	150.0	H	125.0	8.4
7319.033333	---	35.87	54.00	18.13	150.0	H	89.0	8.2
11572.441667	---	40.17	54.00	13.83	150.0	H	169.0	13.4
11583.258333	48.38	---	74.00	25.62	150.0	H	50.0	13.4

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: D-RTK 3 Multifunctional Station
Model: R600BS
Test Mode: BLE 1M_Mid channel+SDR 5.8G_10M_5787.5MHz
Order No/Sample No: 168492000/A003834149-006
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC Part 15C
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7410.975000	43.88	---	74.00	30.12	150.0	V	155.0	8.3
7453.750000	---	34.80	54.00	19.20	150.0	V	120.0	8.5
11574.408333	49.19	---	74.00	24.81	150.0	V	316.0	13.4
11576.375000	---	40.43	54.00	13.57	150.0	V	85.0	13.4

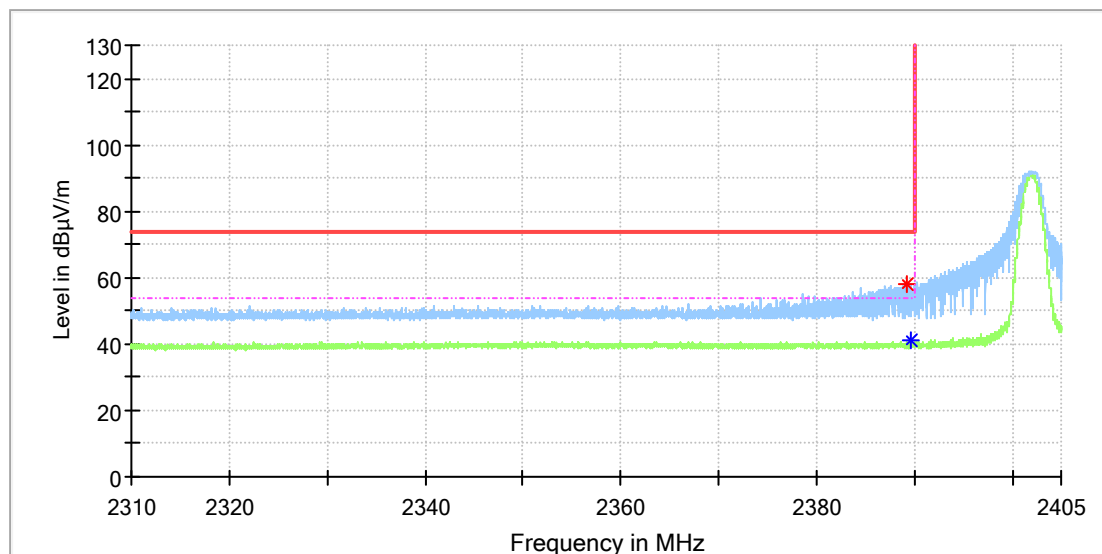
Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Appendix A.6: Test Results of Radiated Emissions in Restricted Bands

EUT Information

EUT Name:	D-RTK 3 Multifunctional Station
Model:	R600BS
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168492000/A003834149-006
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

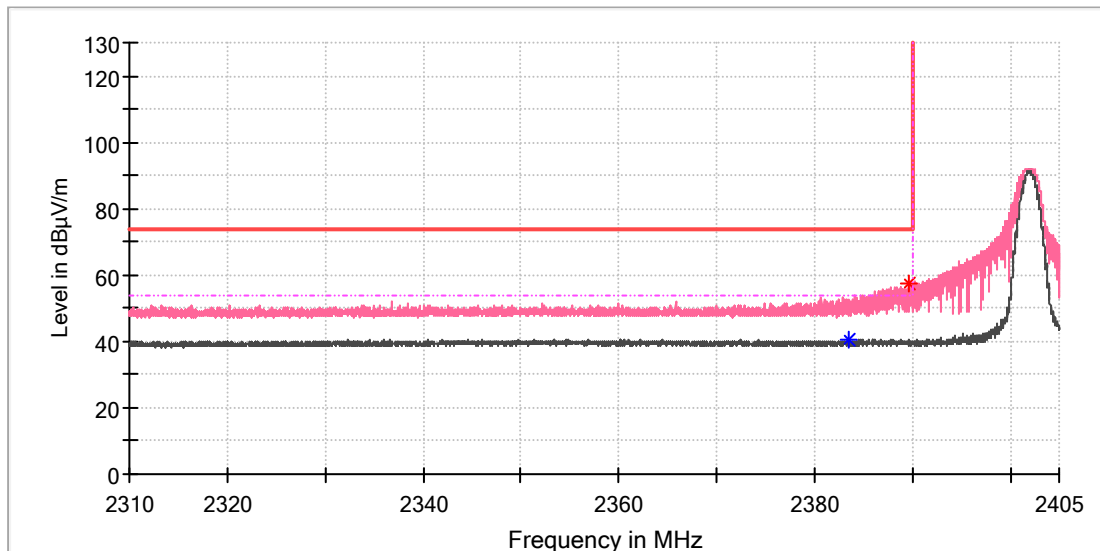
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.171324	58.18	---	74.00	15.82	150.0	H	68.0	8.5
2389.548529	---	40.82	54.00	13.18	150.0	H	31.0	8.5

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name:	D-RTK 3 Multifunctional Station
Model:	R600BS
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168492000/A003834149-006
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

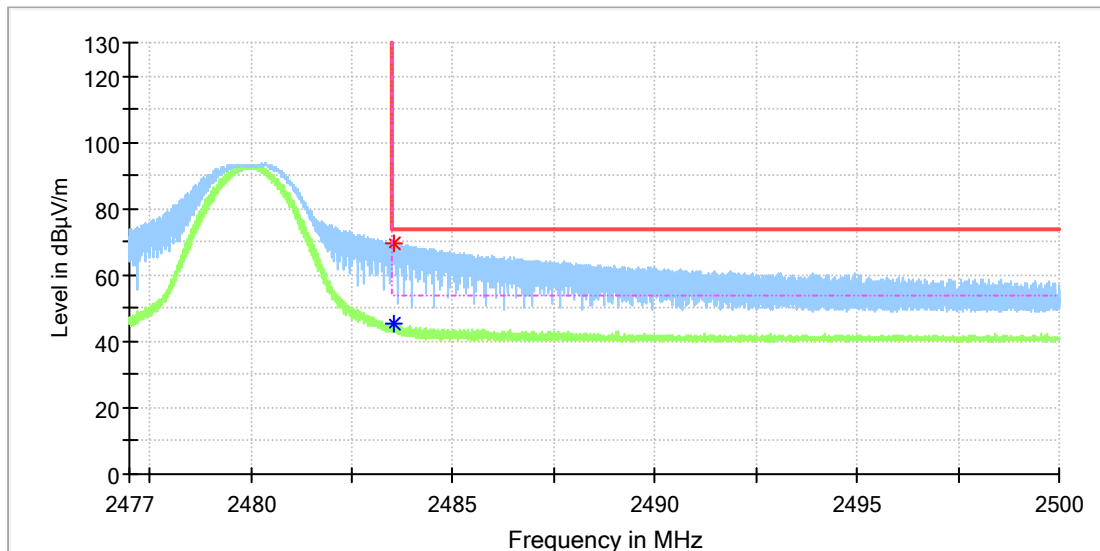
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2383.513235	---	40.63	54.00	13.37	150.0	V	83.0	8.5
2389.730147	57.19	---	74.00	16.81	150.0	V	332.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: D-RTK 3 Multifunctional Station
Model: R600BS
Test Mode: BLE 1M_High channel
Order No/Sample No: 168492000/A003834149-006
Test Voltage: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

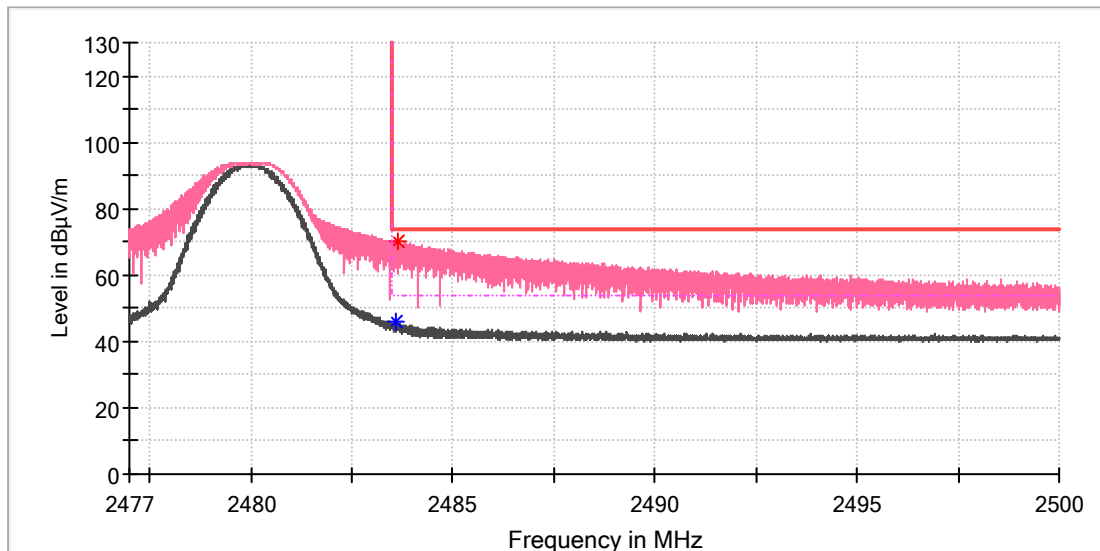
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.524559	---	45.09	54.00	8.91	150.0	H	284.0	9.0
2483.548235	69.46	---	74.00	4.54	150.0	H	147.0	9.0

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name:	D-RTK 3 Multifunctional Station
Model:	R600BS
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168492000/A003834149-006
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

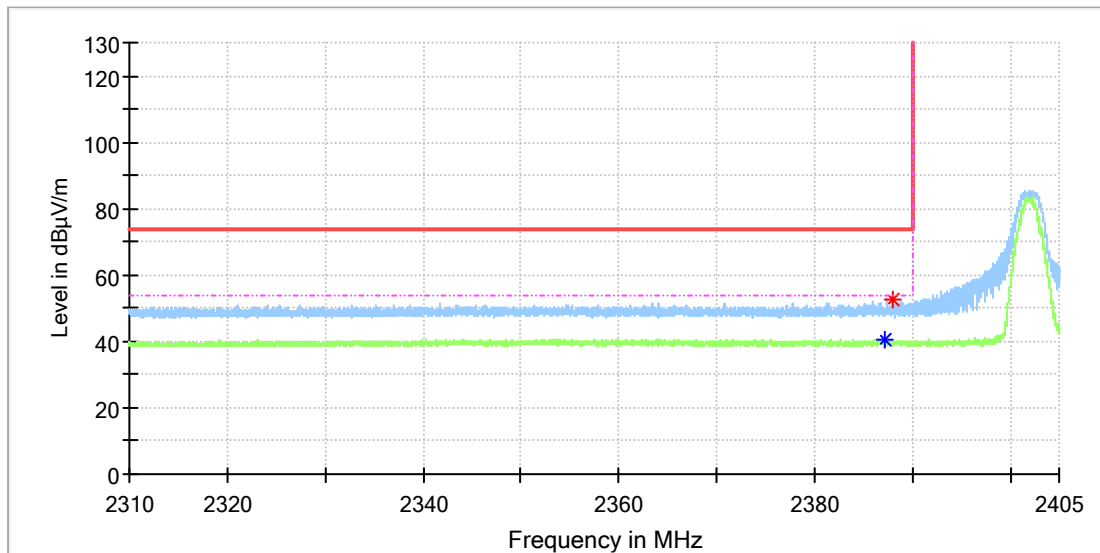
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.568530	---	45.88	54.00	8.12	150.0	V	61.0	9.0
2483.639559	70.02	---	74.00	3.98	150.0	V	55.0	9.0

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name:	D-RTK 3 Multifunctional Station
Model:	R600BS
Test Mode:	BLE 2M_Low channel
Order No/Sample No:	168492000/A003834149-006
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

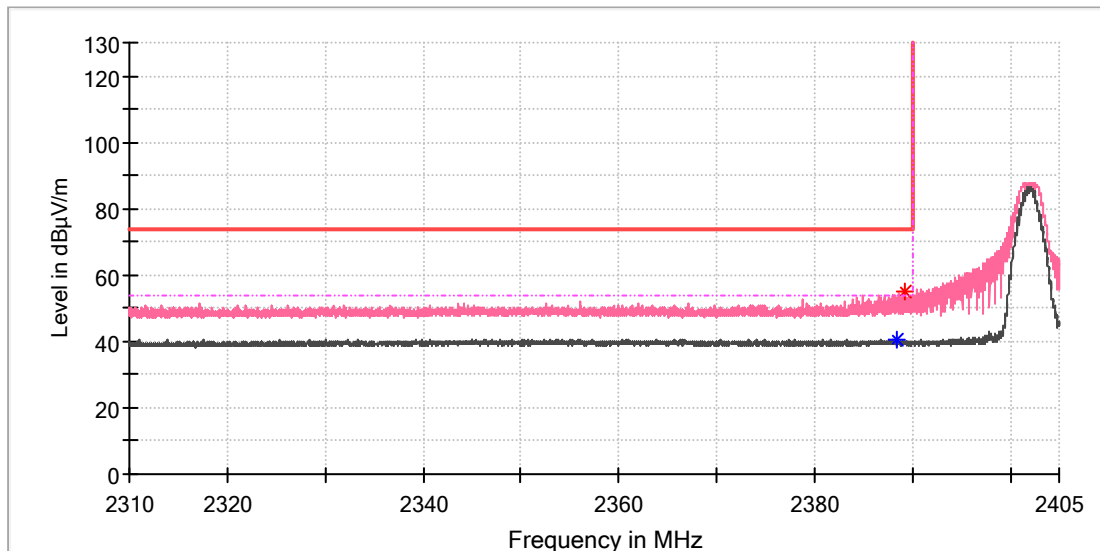
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2387.131618	---	40.26	54.00	13.74	150.0	H	216.0	8.5
2388.025735	52.65	---	74.00	21.35	150.0	H	337.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name:	D-RTK 3 Multifunctional Station
Model:	R600BS
Test Mode:	BLE 2M_Low channel
Order No/Sample No:	168492000/A003834149-006
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

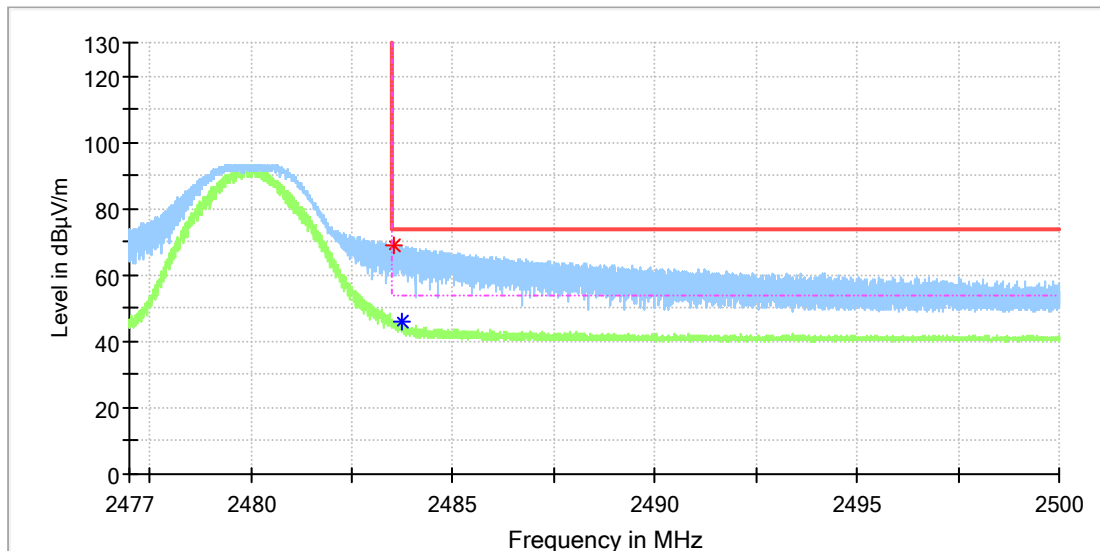
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.347059	---	40.29	54.00	13.71	150.0	V	175.0	8.5
2389.269118	54.80	---	74.00	19.20	150.0	V	202.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name:	D-RTK 3 Multifunctional Station
Model:	R600BS
Test Mode:	BLE 2M_High channel
Order No/Sample No:	168492000/A003834149-006
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

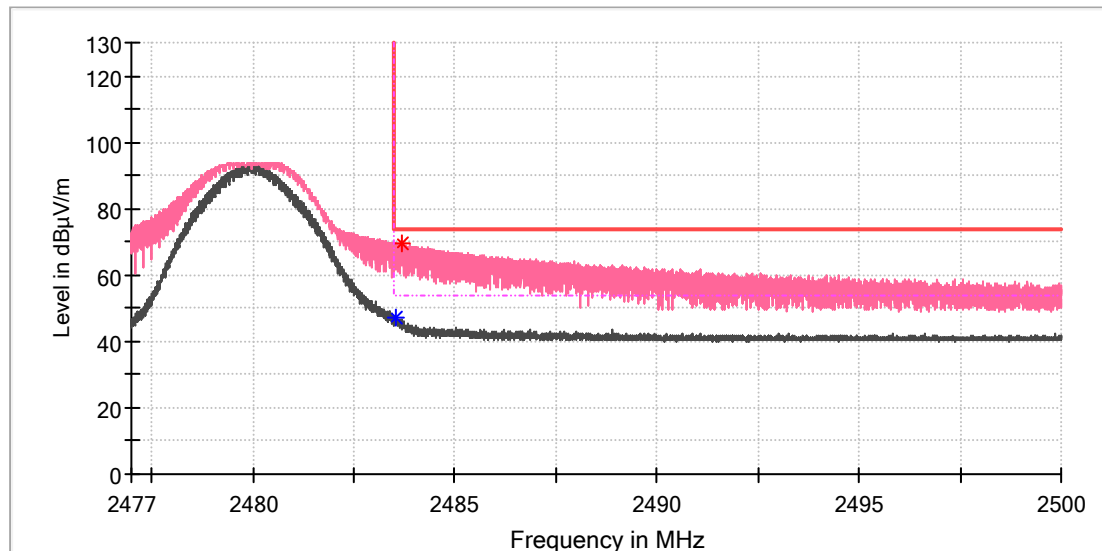
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.544853	68.74	---	74.00	5.26	150.0	H	288.0	9.0
2483.751177	---	46.10	54.00	7.90	150.0	H	295.0	9.0

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name:	D-RTK 3 Multifunctional Station
Model:	R600BS
Test Mode:	BLE 2M_High channel
Order No/Sample No:	168492000/A003834149-006
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.555000	---	47.29	54.00	6.71	150.0	V	308.0	9.0
2483.700441	69.62	---	74.00	4.38	150.0	V	308.0	9.0

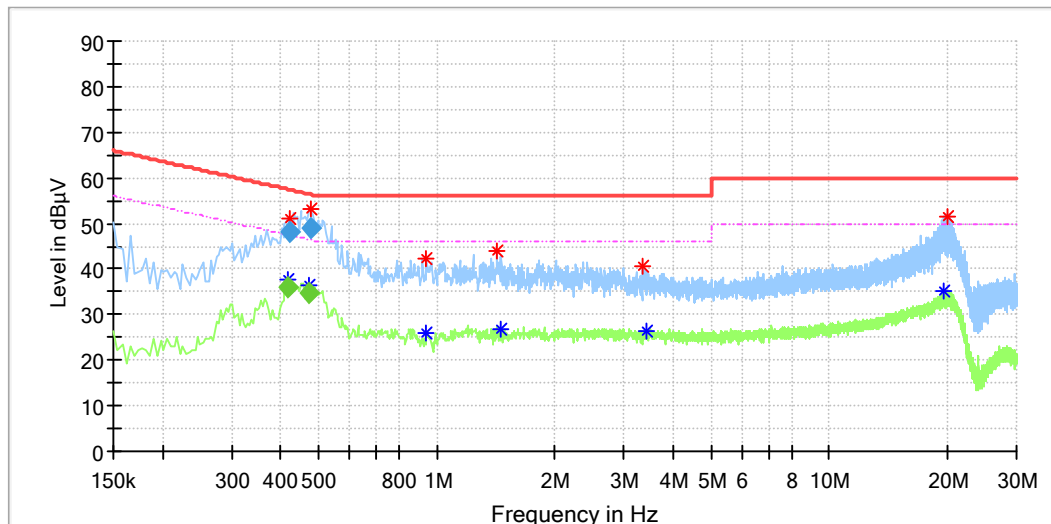
Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Appendix A.7: Test Results of Conducted Emission on AC Mains

EUT Information

EUT Name:	D-RTK 3 Multifunctional Station
Order Number:	168492000
Model:	R600BS
Test Mode:	BT Link
Test Voltage:	AC 120V/60Hz
Test Standard:	FCC Part 15C
Test By:/Review By:	Steve Lan/ Shower Dai
Tem./Hum./Pressure:	23.4°C/51.2%/101kPa
Remark:	SR2



Critical Freqs

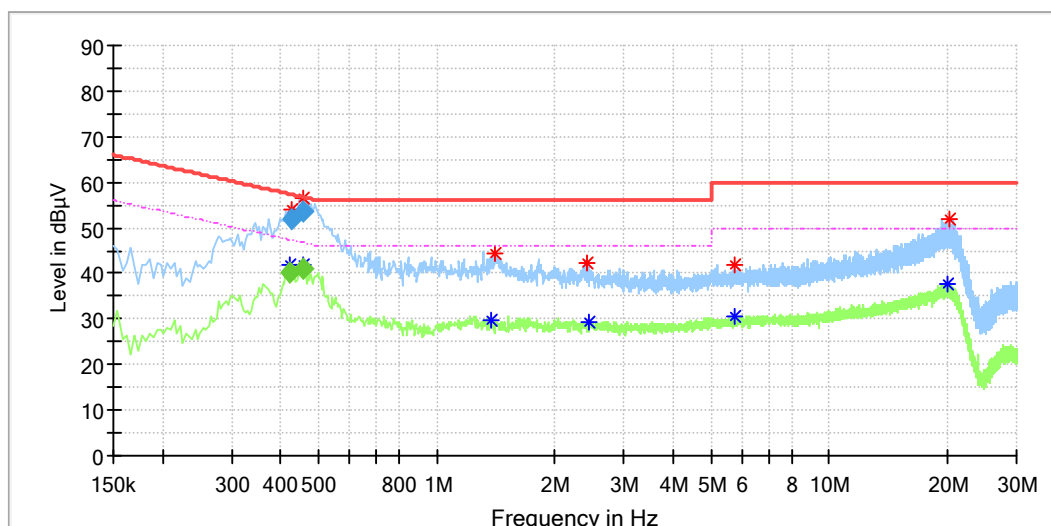
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.417500	---	37.49	47.57	10.08	L1	9.9
0.421500	51.28	---	57.49	6.21	L1	9.9
0.473500	---	36.60	46.44	9.84	L1	10.0
0.477500	53.31	---	56.44	3.13	L1	10.0
0.942000	---	25.93	46.00	20.07	L1	10.0
0.942000	42.25	---	56.00	13.75	L1	10.0
1.426000	43.99	---	56.00	12.01	L1	10.1
1.458000	---	26.64	46.00	19.36	L1	10.1
3.354000	40.40	---	56.00	15.60	L1	10.2
3.414000	---	26.47	46.00	19.53	L1	10.2
19.526000	---	35.14	50.00	14.86	L1	10.4
20.090000	51.64	---	60.00	8.36	L1	10.4

Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.417500	---	36.16	47.50	11.34	1000.0	9.000	L1	9.9
0.421500	48.23	---	57.42	9.19	1000.0	9.000	L1	9.9
0.473500	---	34.82	46.45	11.63	1000.0	9.000	L1	10.0
0.477500	48.95	---	56.38	7.44	1000.0	9.000	L1	10.0

EUT Information

EUT Name: D-RTK 3 Multifunctional Station
Order Number: 168492000
Model: R600BS
Test Mode: BT Link
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15C
Test By:/Review By: Steve Lan/ Shower Dai
Tem./Hum./Pressure: 23.4°C/51.2%/101kPa
Remark: SR2



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.421500	---	41.77	47.41	5.64	N	9.8
0.426500	53.97	---	57.41	3.44	N	9.8
0.457500	56.68	---	56.73	0.05	N	9.8
0.457500	---	41.77	46.73	4.96	N	9.8
1.374000	---	29.92	46.00	16.08	N	9.8
1.406000	44.42	---	56.00	11.58	N	9.8
2.426000	42.36	---	56.00	13.64	N	9.9
2.446000	---	29.45	46.00	16.55	N	9.9
5.730000	---	30.39	50.00	19.61	N	9.9
5.758000	41.85	---	60.00	18.15	N	9.9
19.926000	---	37.65	50.00	12.35	N	10.2
20.290000	51.76	---	60.00	8.24	N	10.2

Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.421500	---	40.30	47.42	7.12	1000.0	9.000	N	9.8
0.426500	51.94	---	57.32	5.38	1000.0	9.000	N	9.8
0.457500	---	40.95	46.74	5.79	1000.0	9.000	N	9.8
0.457500	53.72	---	56.74	3.01	1000.0	9.000	N	9.8