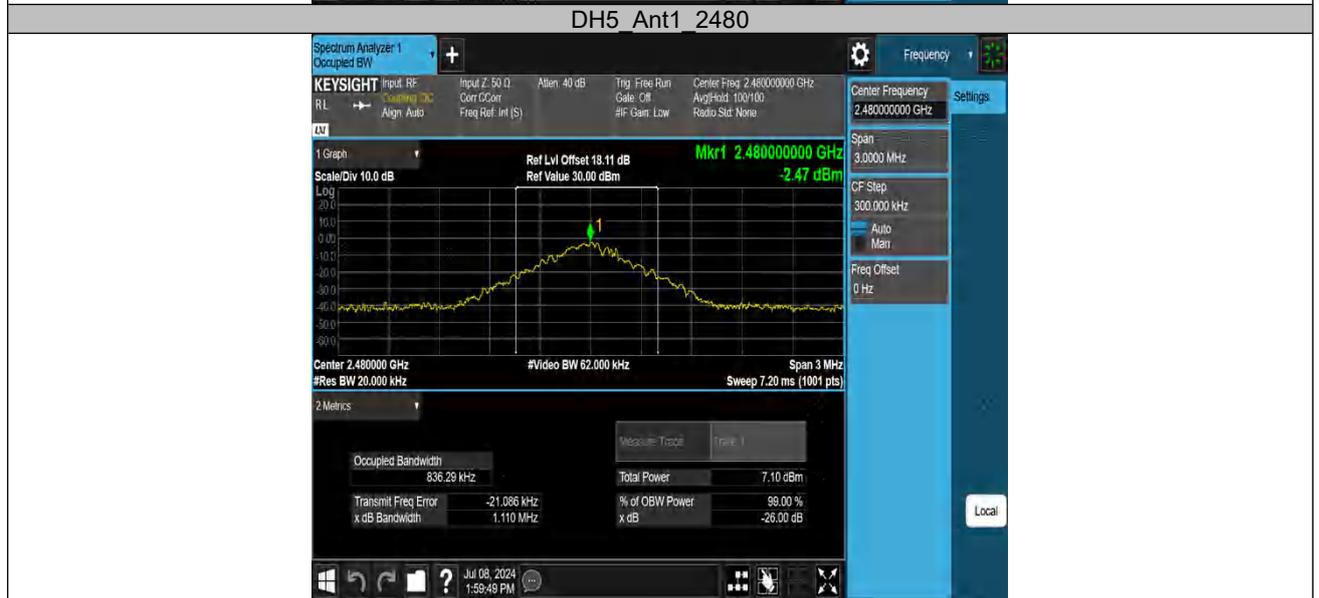
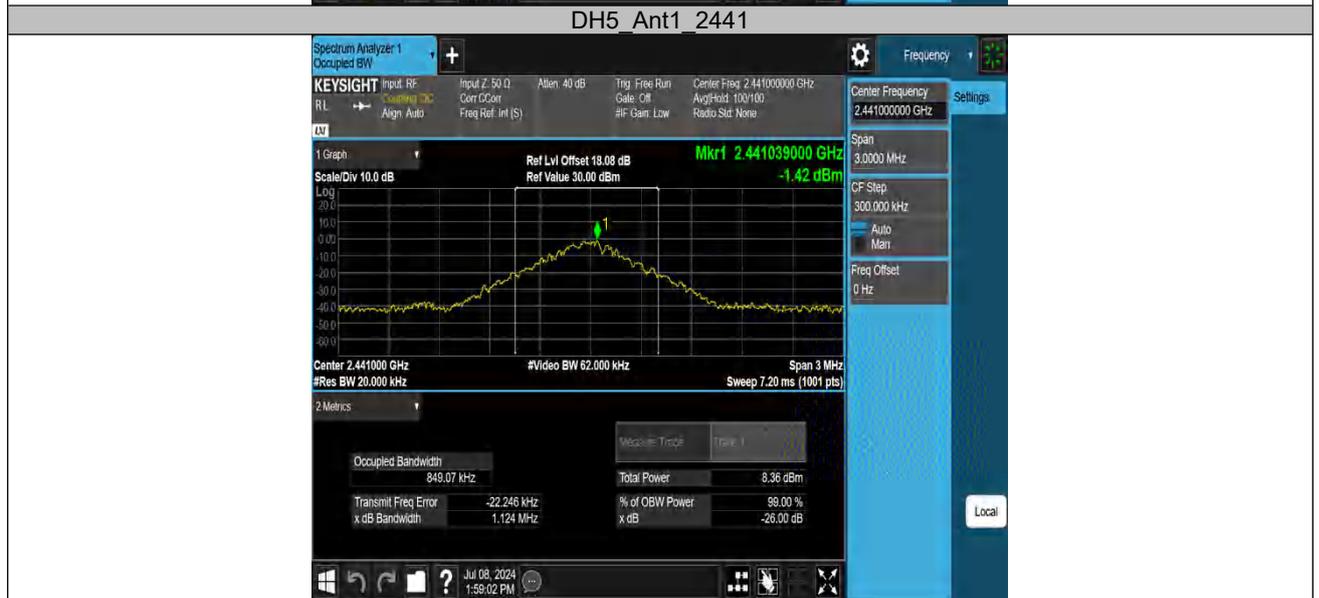
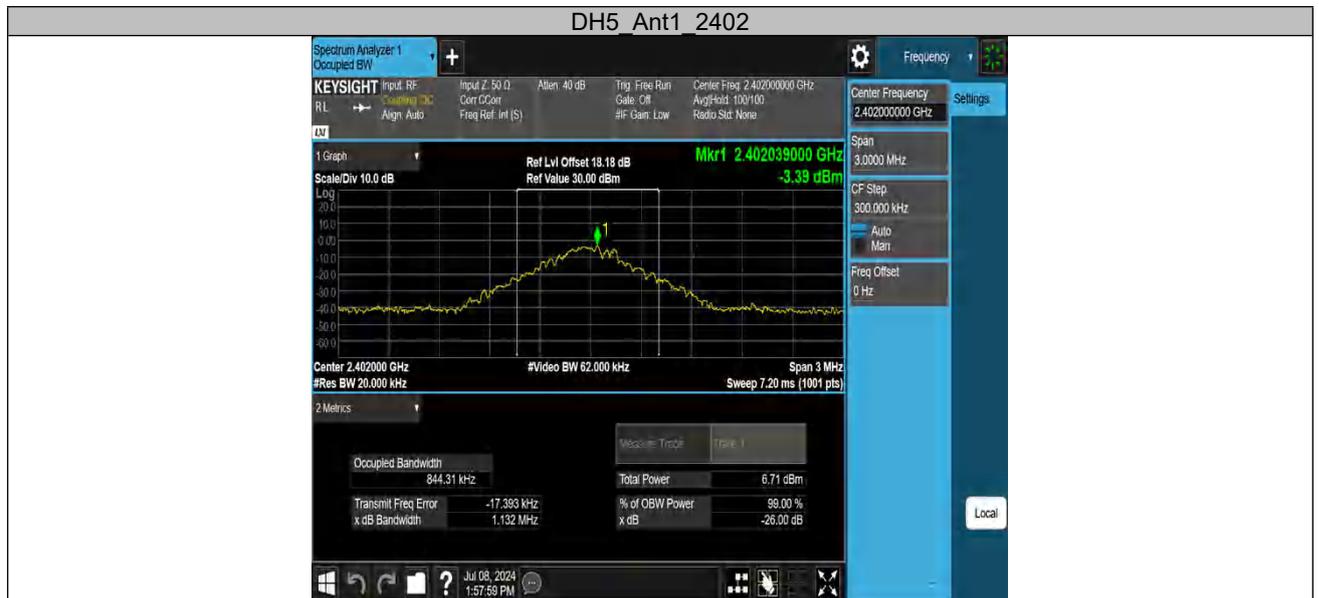


Appendix A: Test Results of Bluetooth BR & EDR

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Appendix A.1: Test Results of 99% Bandwidth

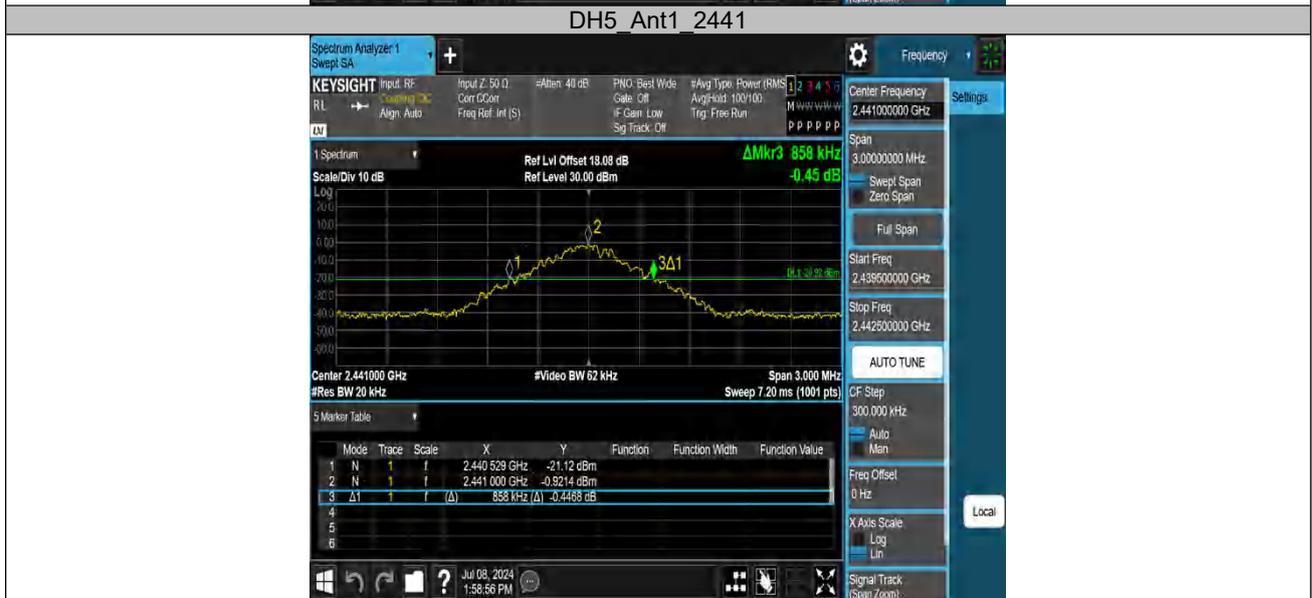
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.84431	2401.5605	2402.4048	---	PASS
		2441	0.84907	2440.5532	2441.4023	---	PASS
		2480	0.83629	2479.5608	2480.3971	---	PASS
3DH5	Ant1	2402	1.2165	2401.3660	2402.5825	---	PASS
		2441	1.1939	2440.3806	2441.5745	---	PASS
		2480	1.2113	2479.3678	2480.5791	---	PASS





Appendix A.2: Test Results of 20dB Bandwidth

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.888	2401.526	2402.414	---	PASS
		2441	0.858	2440.529	2441.387	---	PASS
		2480	0.855	2479.532	2480.387	---	PASS
3DH5	Ant1	2402	1.275	2401.331	2402.606	---	PASS
		2441	1.272	2440.334	2441.606	---	PASS
		2480	1.281	2479.331	2480.612	---	PASS





Appendix A.3: Test Results of Carrier Frequency Separation

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.016	≥0.888	PASS
3DH5	Ant1	Hop	1.044	≥0.854	PASS



Appendix A.4: Test Results of Number of Hopping Frequency

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS



Appendix A.5: Test Results of Time of Occupancy

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.380	320	0.122	≤0.4	PASS
DH3	Ant1	Hop	1.637	170	0.278	≤0.4	PASS
DH5	Ant1	Hop	2.884	104	0.3	≤0.4	PASS
3DH1	Ant1	Hop	0.386	319	0.123	≤0.4	PASS
3DH3	Ant1	Hop	1.638	159	0.26	≤0.4	PASS
3DH5	Ant1	Hop	2.888	114	0.329	≤0.4	PASS



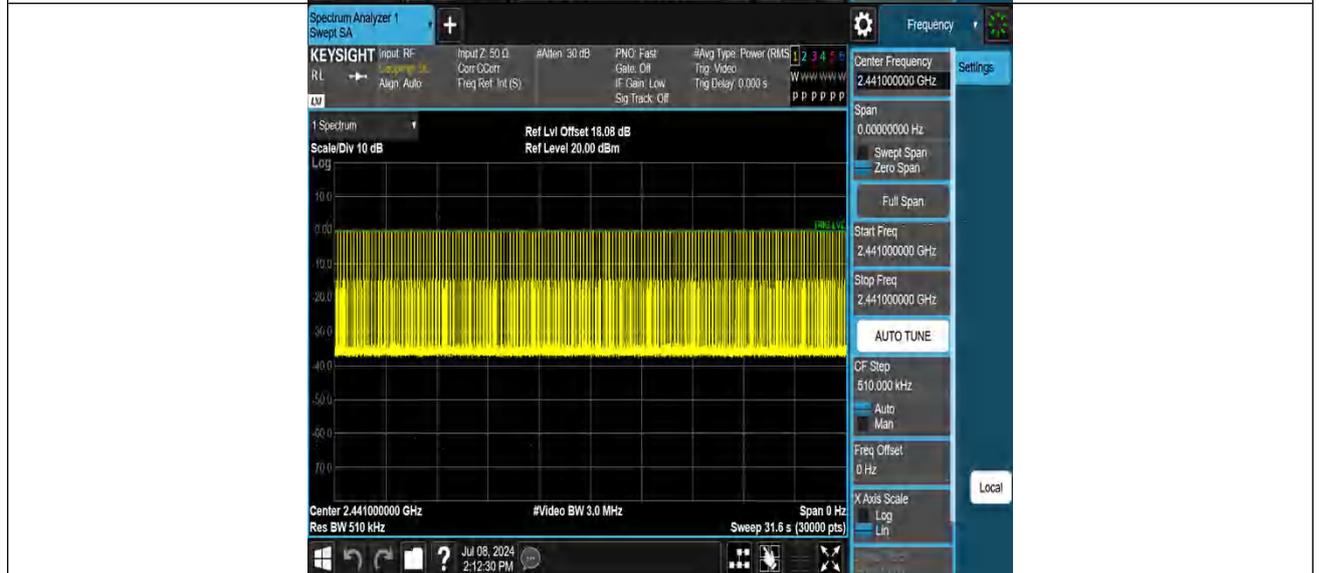
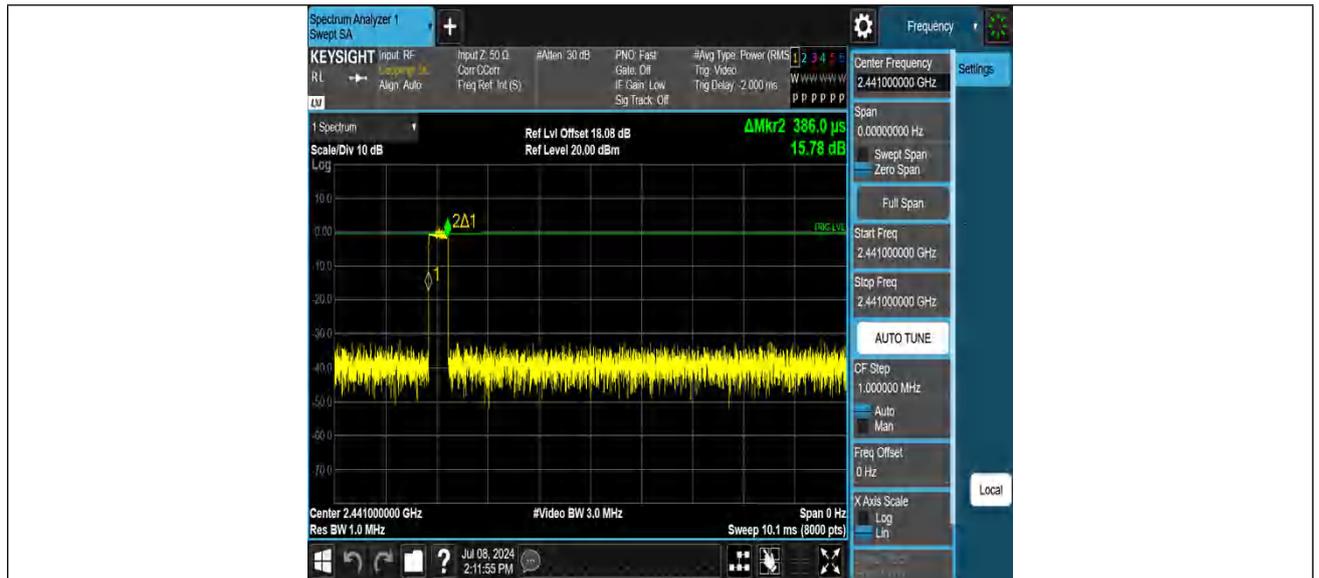


DH5 Ant1 Hop



3DH1 Ant1 Hop



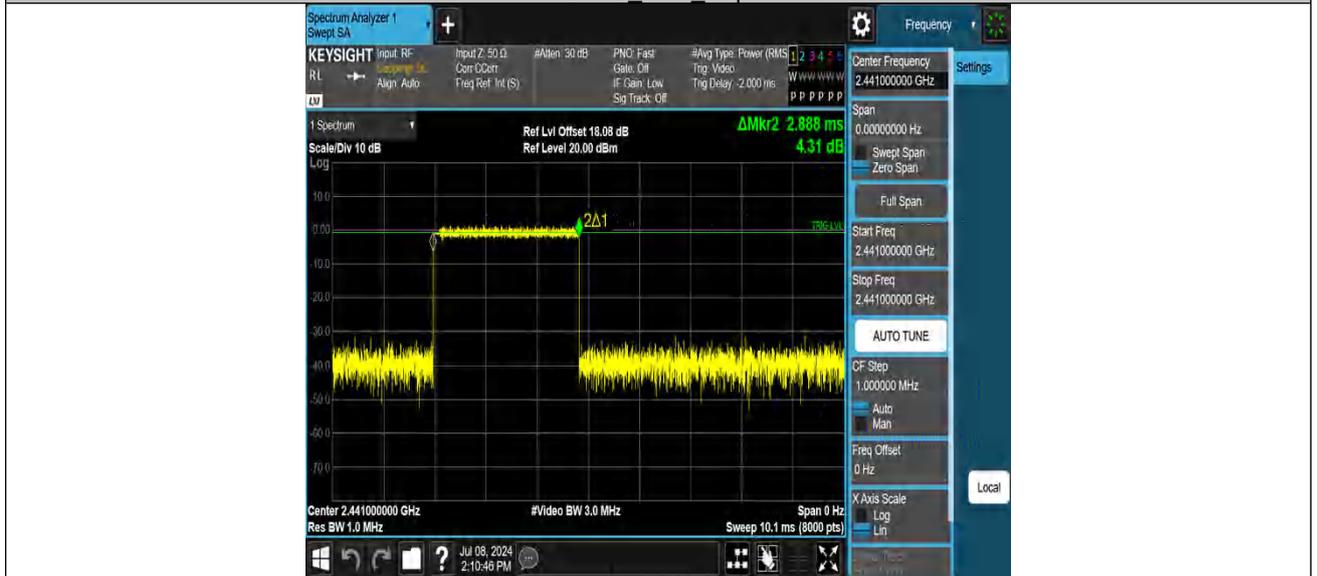


3DH3 Ant1 Hop





3DH5 Ant1 Hop



Appendix A.6: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Band Edge

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.10	-43.39	≤-19.90	PASS
DH5	Ant1	High	2480	0.40	-42.08	≤-19.60	PASS
3DH5	Ant1	Low	2402	-2.99	-42.71	≤-22.99	PASS
3DH5	Ant1	High	2480	-2.48	-42.19	≤-22.48	PASS
DH5	Ant1	Hopping	2402	-1.62	-43.84	≤-21.62	PASS
DH5	Ant1	Hopping	2480	-0.30	-43.44	≤-20.30	PASS
3DH5	Ant1	Hopping	2402	-3.36	-44.19	≤-23.36	PASS
3DH5	Ant1	Hopping	2480	-6.09	-44.58	≤-26.09	PASS

DH5 Ant1 Low 2402



DH5 Ant1 High 2480



3DH5 Ant1 Low 2402



3DH5 Ant1 High 2480



DH5 Ant1 Hopping 2402



DH5 Ant1 Hopping 2480

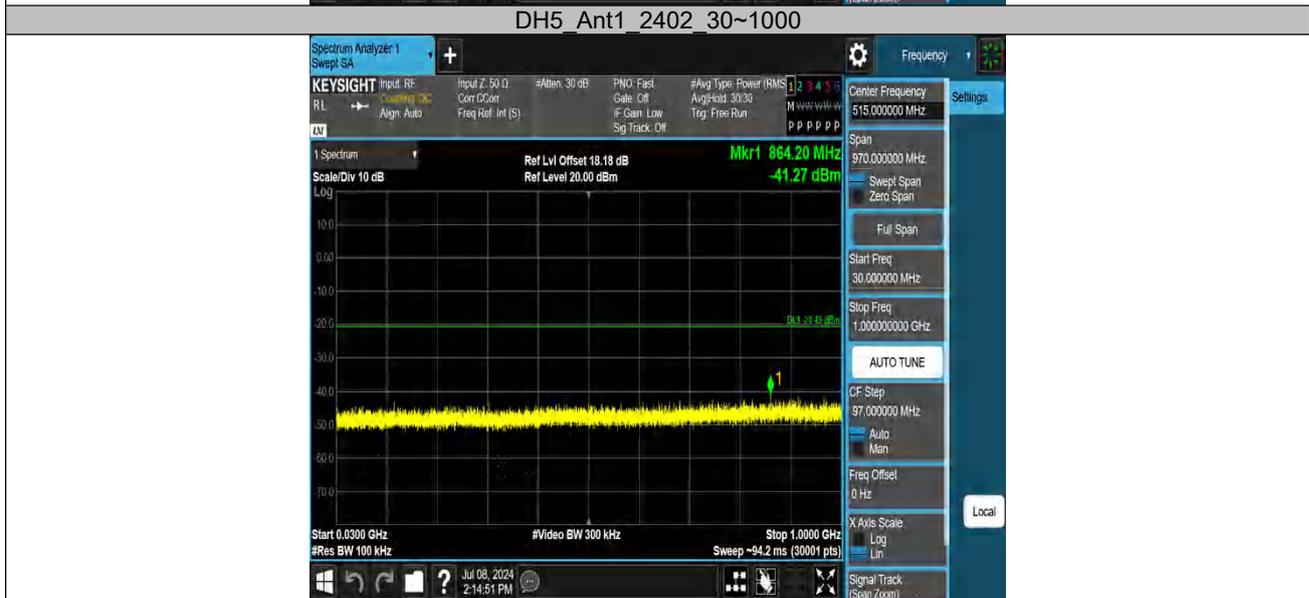


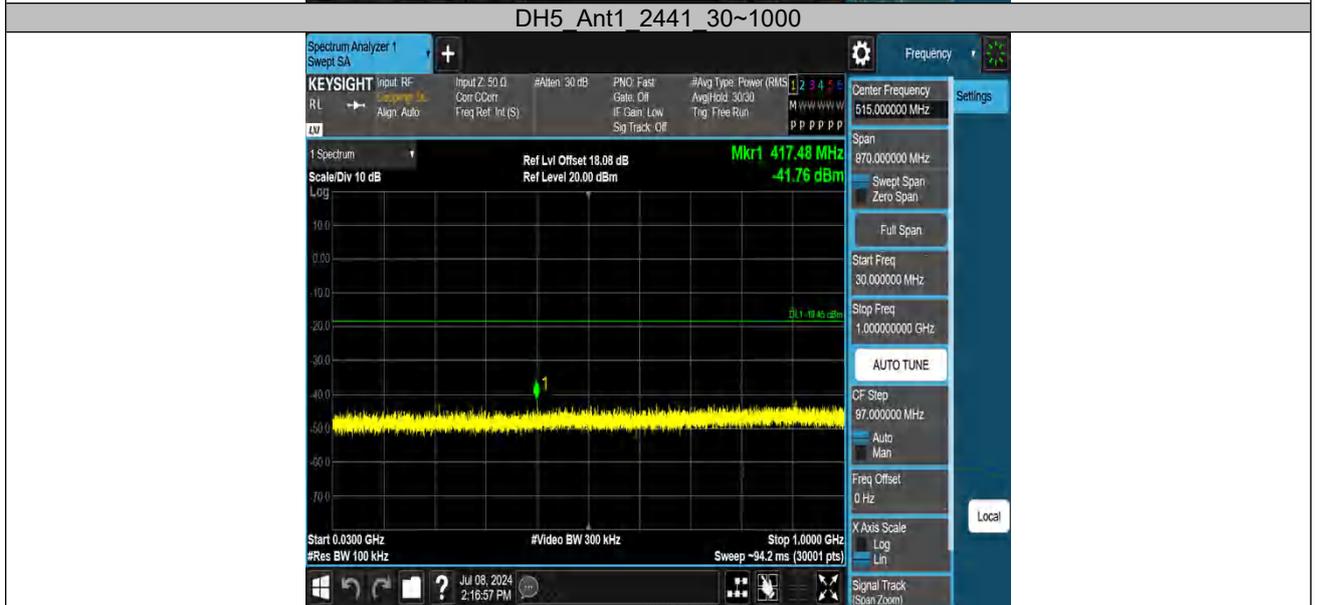
3DH5 Ant1 Hopping 2402

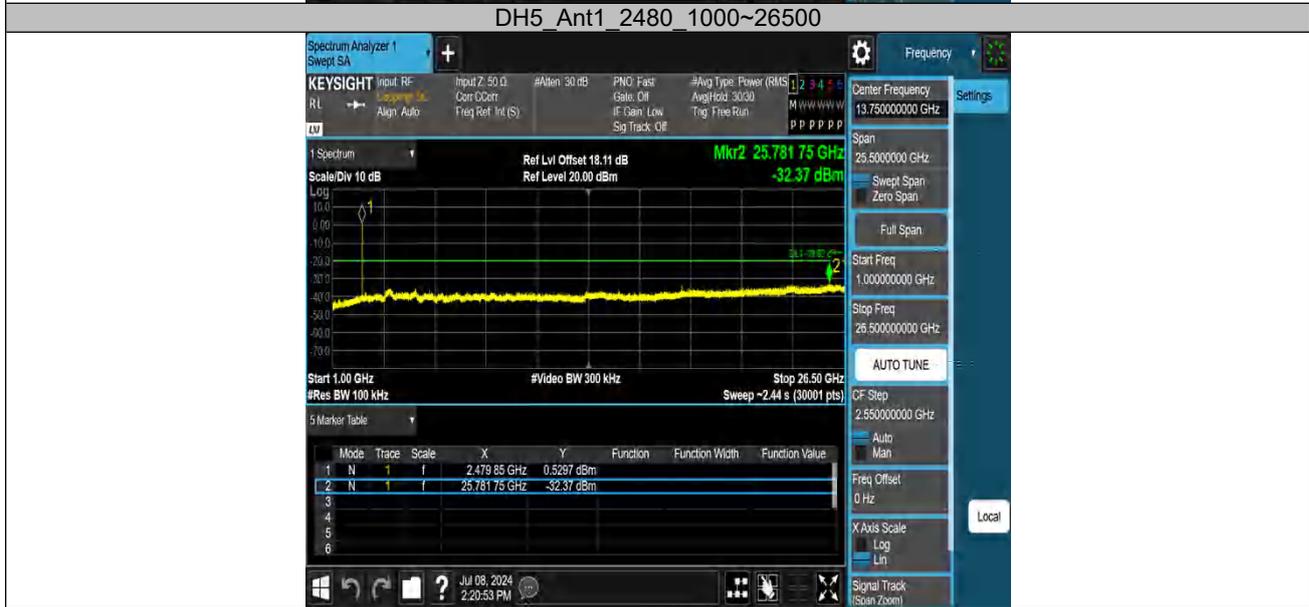


Conducted Spurious Emission

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.49	-0.49	---	PASS
			30~1000	-0.49	-41.27	≤-20.49	PASS
			1000~26500	-0.49	-31.94	≤-20.49	PASS
		2441	Reference	1.55	1.55	---	PASS
			30~1000	1.55	-41.76	≤-18.45	PASS
			1000~26500	1.55	-32.39	≤-18.45	PASS
		2480	Reference	0.17	0.17	---	PASS
			30~1000	0.17	-41.93	≤-19.83	PASS
			1000~26500	0.17	-32.37	≤-19.83	PASS
3DH5	Ant1	2402	Reference	-5.28	-5.28	---	PASS
			30~1000	-5.28	-41.62	≤-25.28	PASS
			1000~26500	-5.28	-32.75	≤-25.28	PASS
		2441	Reference	-2.97	-2.97	---	PASS
			30~1000	-2.97	-41.48	≤-22.97	PASS
			1000~26500	-2.97	-32.98	≤-22.97	PASS
		2480	Reference	-2.37	-2.37	---	PASS
			30~1000	-2.37	-42.28	≤-22.37	PASS
			1000~26500	-2.37	-32.71	≤-22.37	PASS

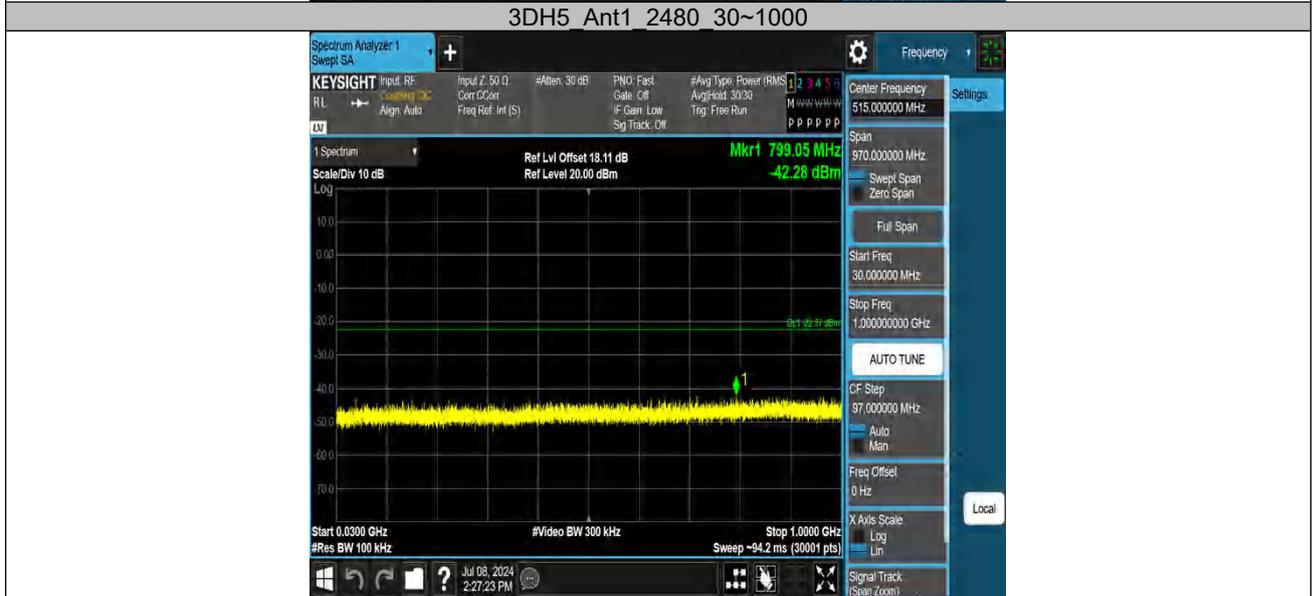












Appendix A.7: Test Results of Radiated Spurious Emissions

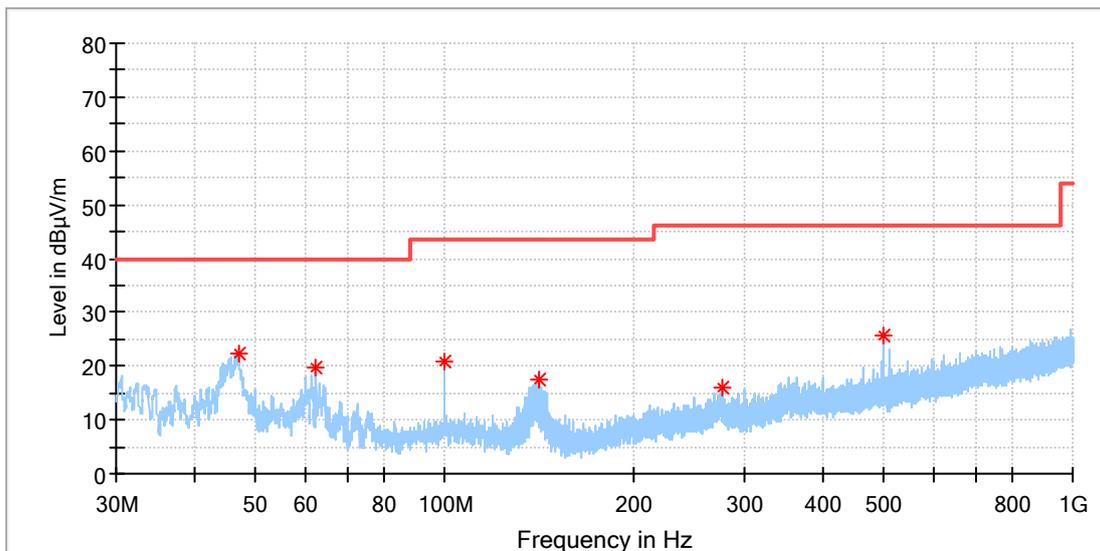
Note:

- 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:	Controller
Model:	RC520
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

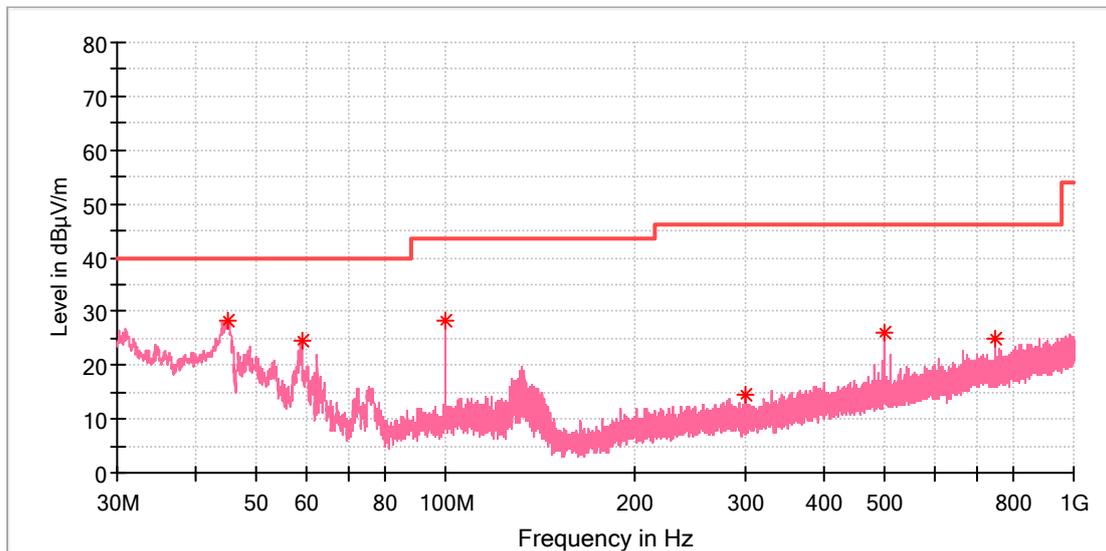
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
46.937692	22.30	40.00	17.70	100.0	H	58.0	-18.8
62.495000	19.68	40.00	20.32	100.0	H	126.0	-19.9
99.989231	20.91	43.50	22.59	100.0	H	284.0	-19.3
141.065000	17.51	43.50	25.99	100.0	H	209.0	-22.6
276.193462	15.99	46.00	30.01	100.0	H	344.0	-17.1
500.002308	25.49	46.00	20.51	100.0	H	262.0	-12.2

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
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)
45.035000	28.38	40.00	11.62	100.0	V	227.0	-19.2
59.062692	24.50	40.00	15.50	100.0	V	219.0	-19.2
99.989231	28.29	43.50	15.21	100.0	V	76.0	-19.3
300.033077	14.48	46.00	31.52	100.0	V	250.0	-16.6
500.002308	25.99	46.00	20.01	100.0	V	61.0	-12.2
750.001154	25.04	46.00	20.96	100.0	V	0.0	-7.6

Final Result

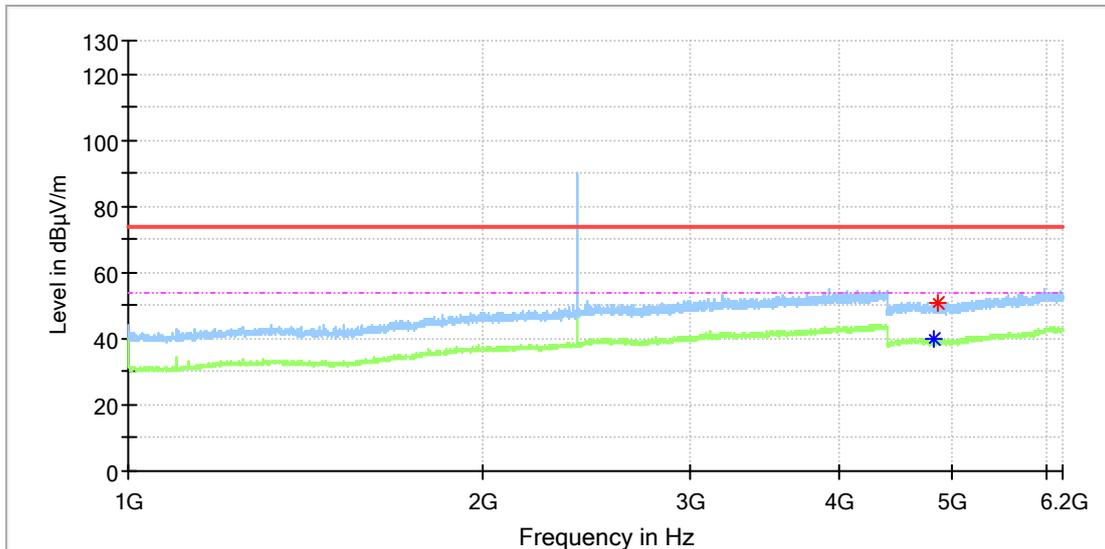
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

1GHz - 18GHz

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

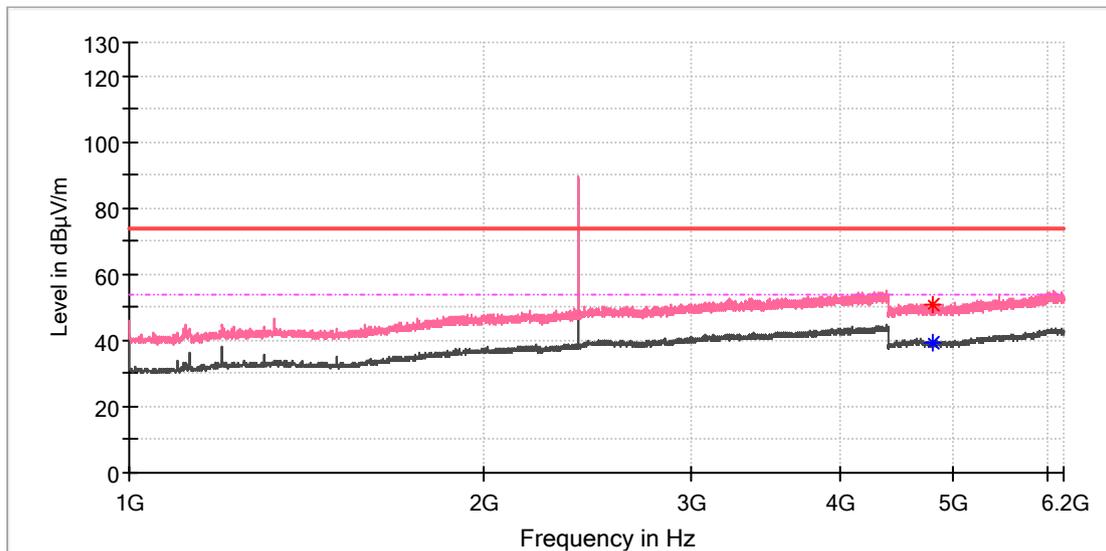
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4814.500000	---	39.69	54.00	14.31	150.0	H	144.0	11.8
4850.500000	50.84	---	74.00	23.16	150.0	H	80.0	11.8

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

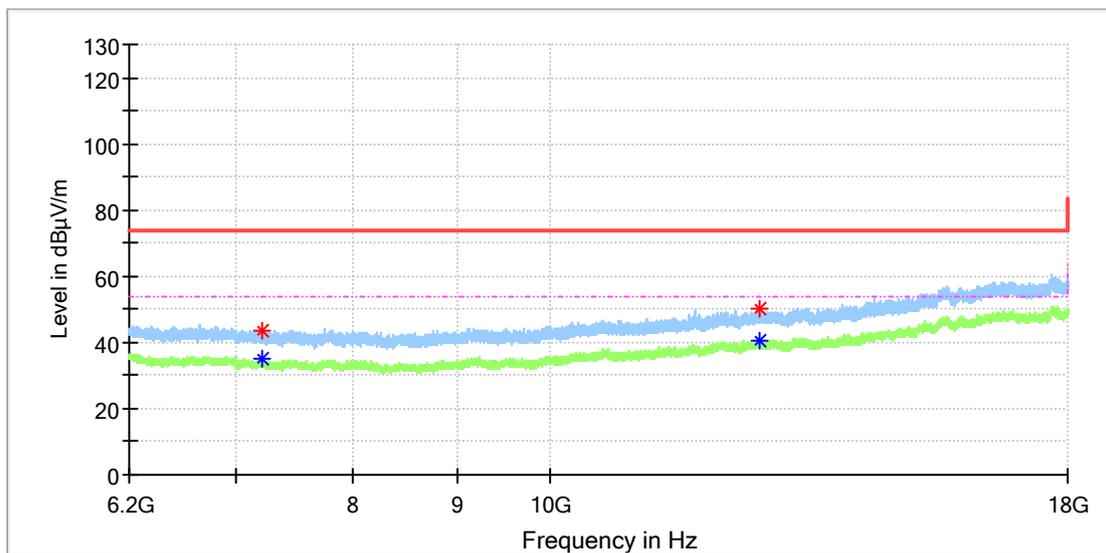
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4806.500000	50.65	---	74.00	23.35	150.0	V	125.0	11.8
4809.500000	---	39.46	54.00	14.54	150.0	V	231.0	11.8

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

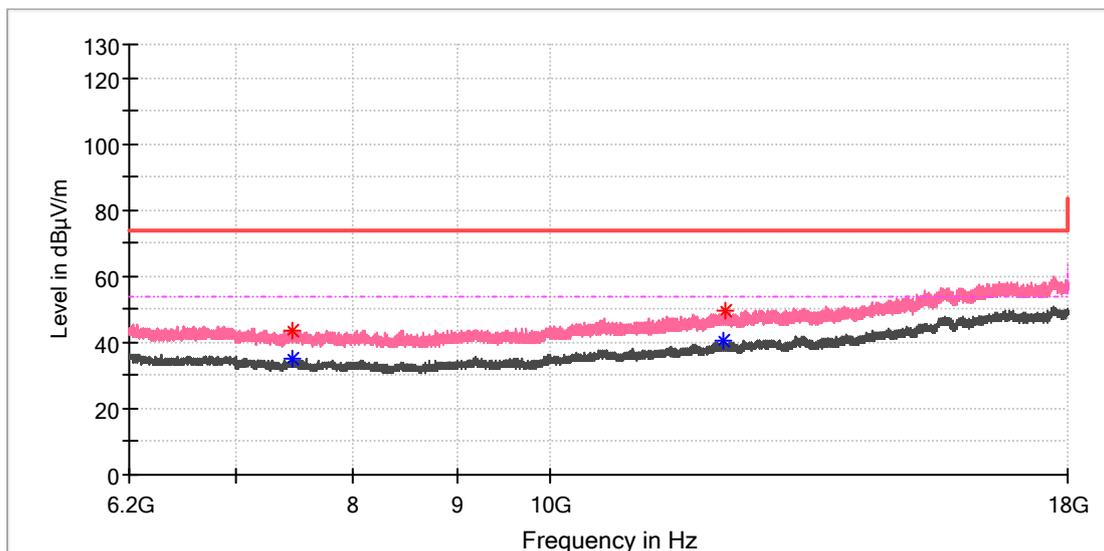
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7202.508333	---	34.98	54.00	19.02	150.0	H	190.0	8.8
7217.750000	43.41	---	74.00	30.59	150.0	H	224.0	8.7
12684.591667	49.89	---	74.00	24.11	150.0	H	340.0	15.1
12696.883333	---	40.49	54.00	13.51	150.0	H	0.0	15.1

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

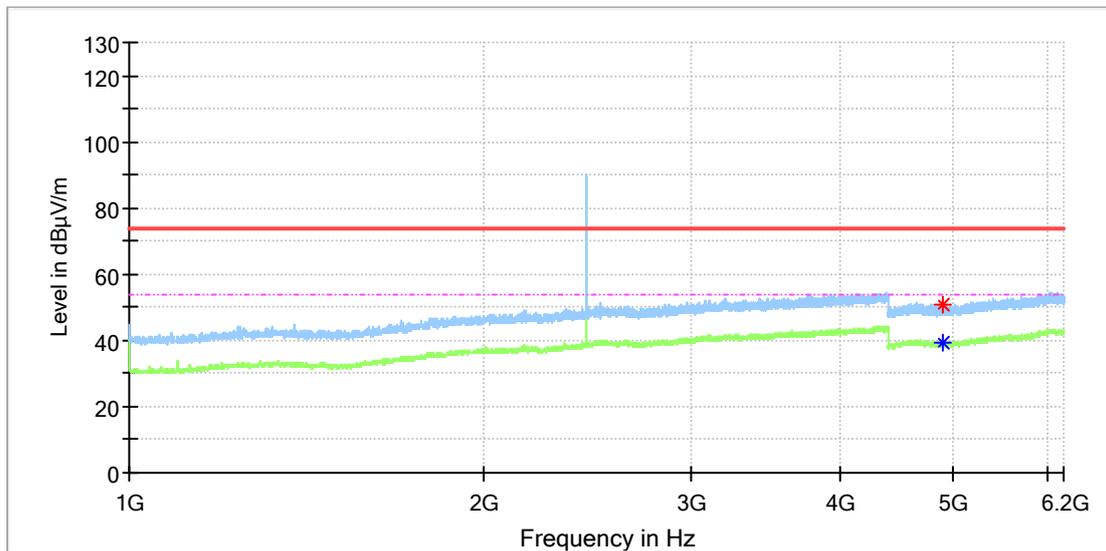
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7453.750000	---	34.96	54.00	19.04	150.0	V	301.0	8.5
7460.141667	43.54	---	74.00	30.46	150.0	V	107.0	8.5
12184.566667	---	40.50	54.00	13.50	150.0	V	252.0	14.6
12204.725000	49.46	---	74.00	24.54	150.0	V	337.0	14.7

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

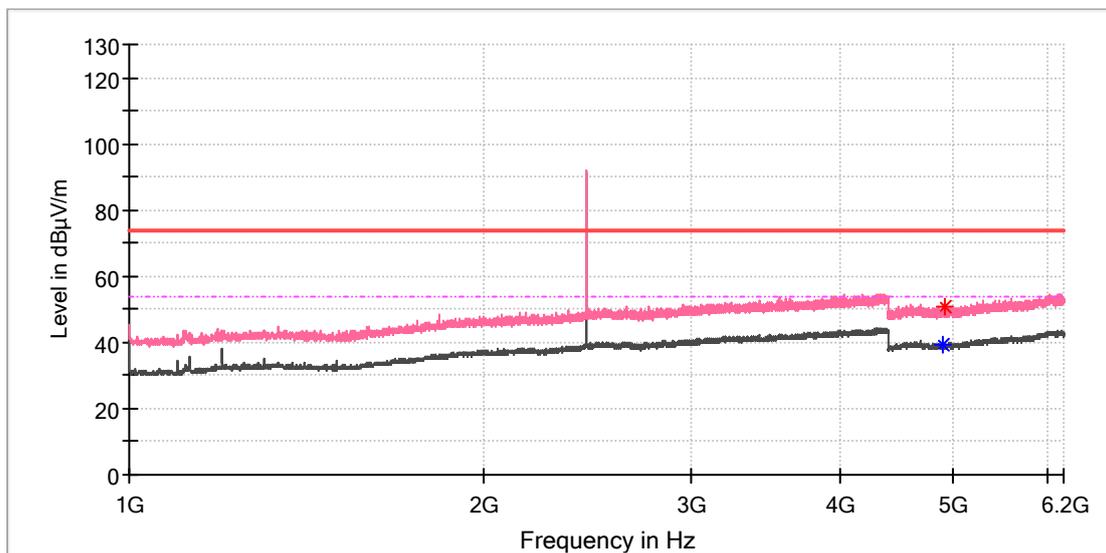
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4898.000000	50.72	---	74.00	23.28	150.0	H	139.0	11.8
4903.500000	---	39.50	54.00	14.50	150.0	H	0.0	11.8

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

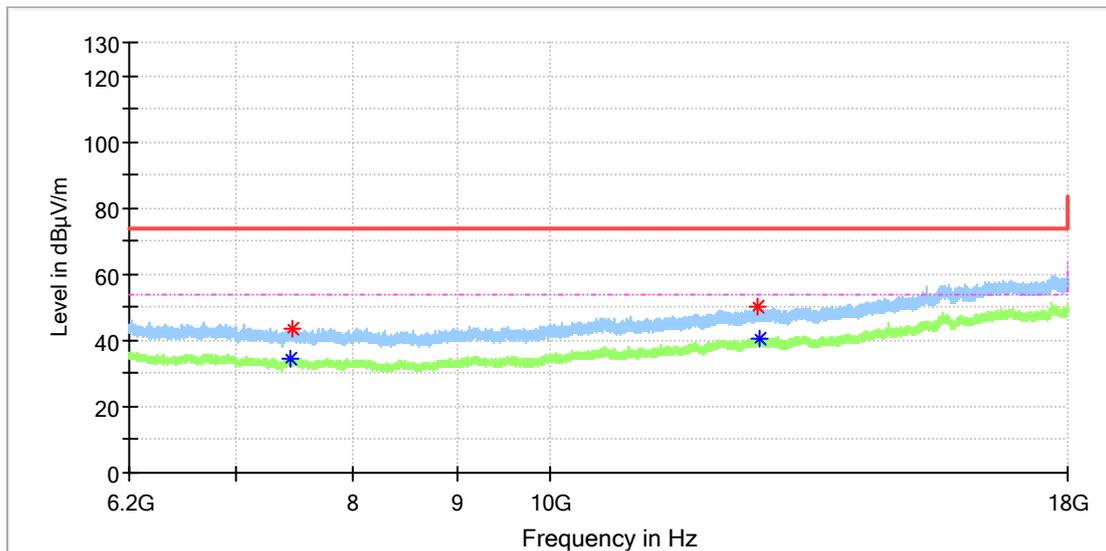
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4900.500000	---	39.41	54.00	14.59	150.0	V	194.0	11.8
4911.000000	51.00	---	74.00	23.00	150.0	V	227.0	11.8

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

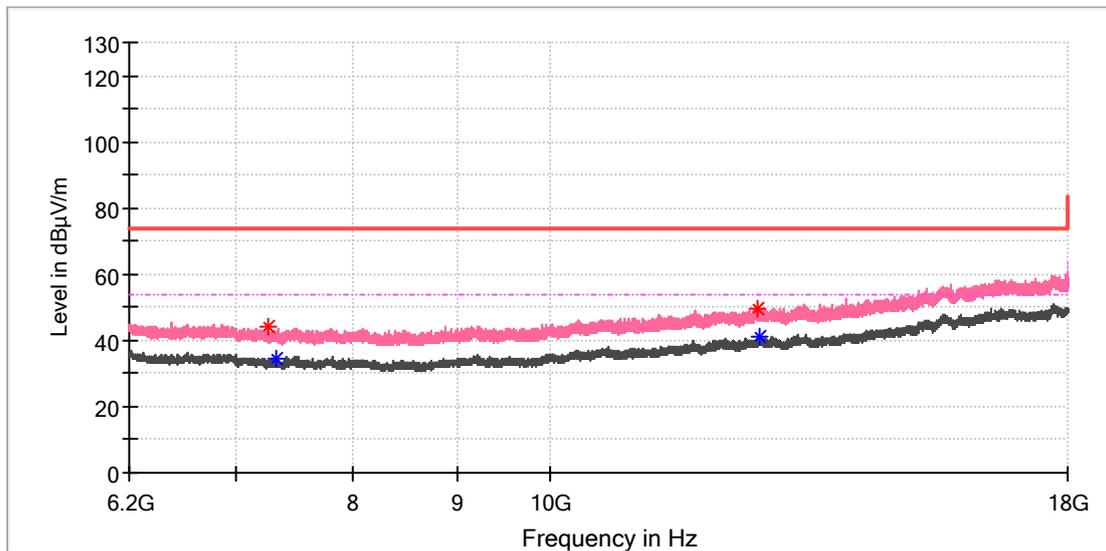
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7451.291667	---	34.49	54.00	19.51	150.0	H	148.0	8.5
7460.633333	43.56	---	74.00	30.44	150.0	H	171.0	8.5
12651.650000	49.98	---	74.00	24.02	150.0	H	136.0	15.0
12672.300000	---	40.73	54.00	13.27	150.0	H	327.0	15.1

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

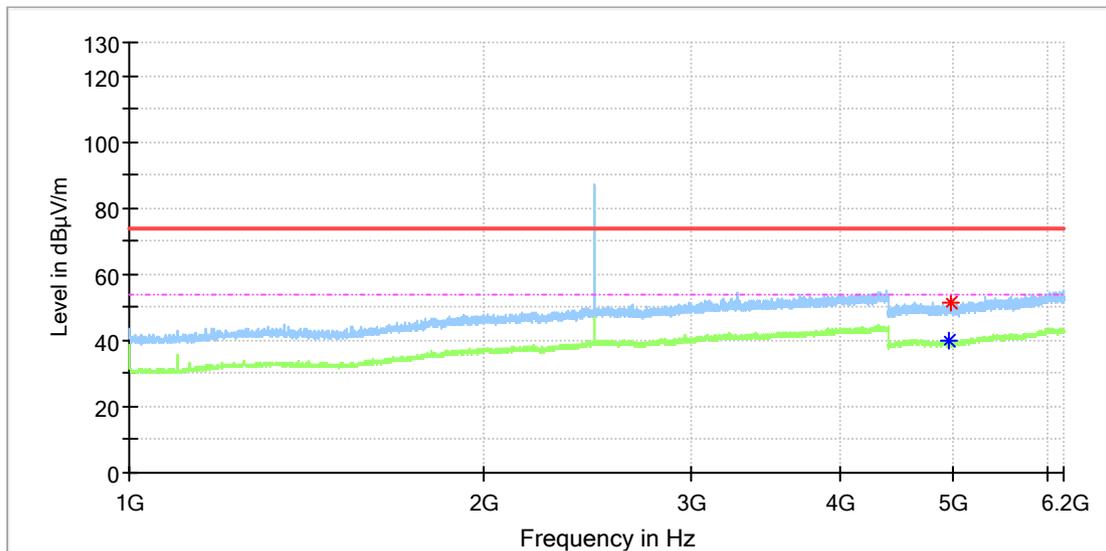
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7252.658333	44.02	---	74.00	29.98	150.0	V	340.0	8.5
7333.291667	---	34.42	54.00	19.58	150.0	V	76.0	8.1
12660.008333	49.78	---	74.00	24.22	150.0	V	159.0	15.0
12690.000000	---	40.96	54.00	13.04	150.0	V	26.0	15.1

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

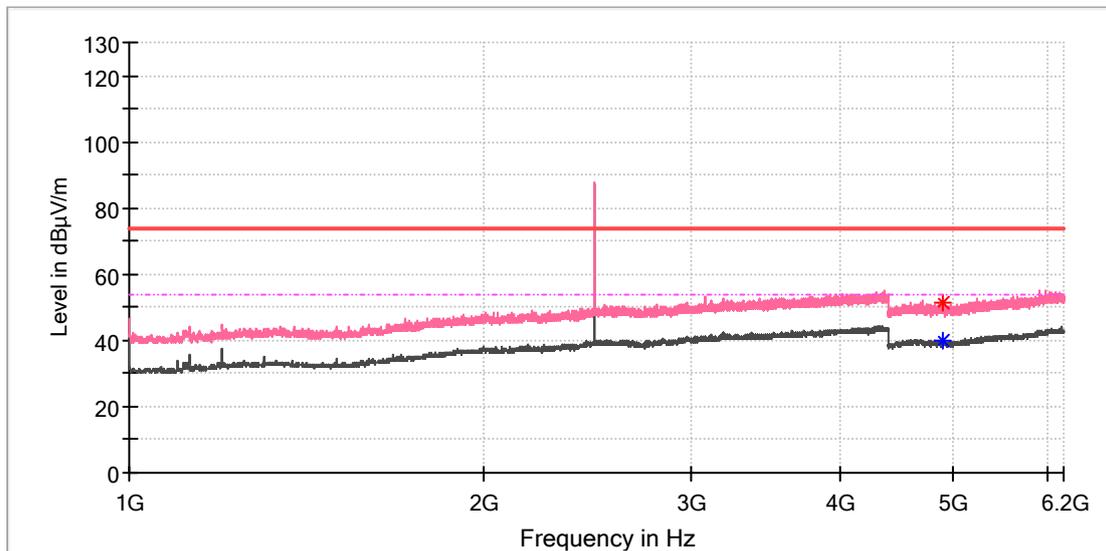
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4957.000000	---	39.81	54.00	14.19	150.0	H	333.0	11.8
4968.500000	51.40	---	74.00	22.60	150.0	H	314.0	11.8

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

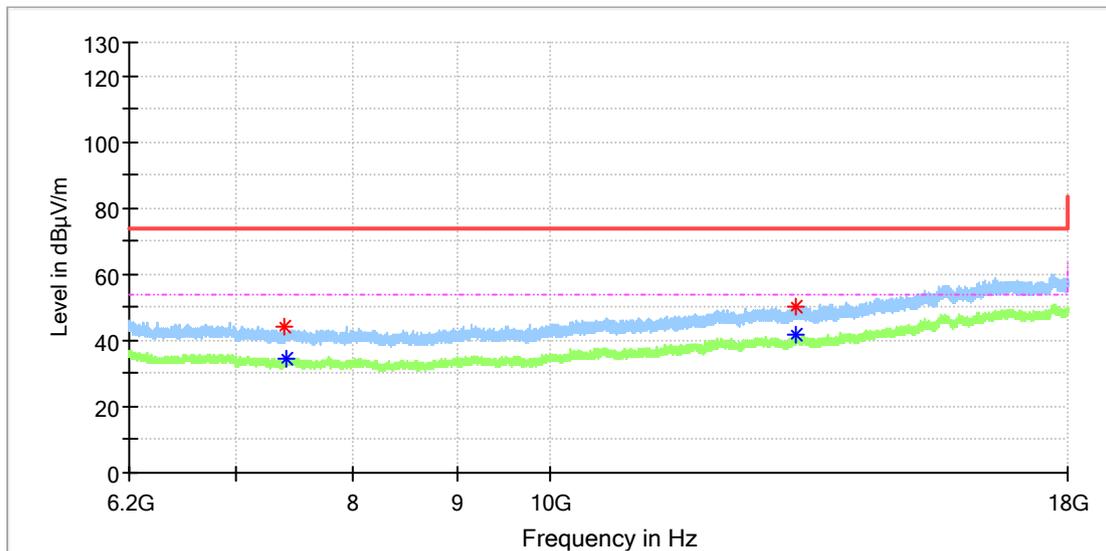
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4902.000000	51.61	---	74.00	22.39	150.0	V	257.0	11.8
4904.000000	---	39.88	54.00	14.12	150.0	V	216.0	11.8

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

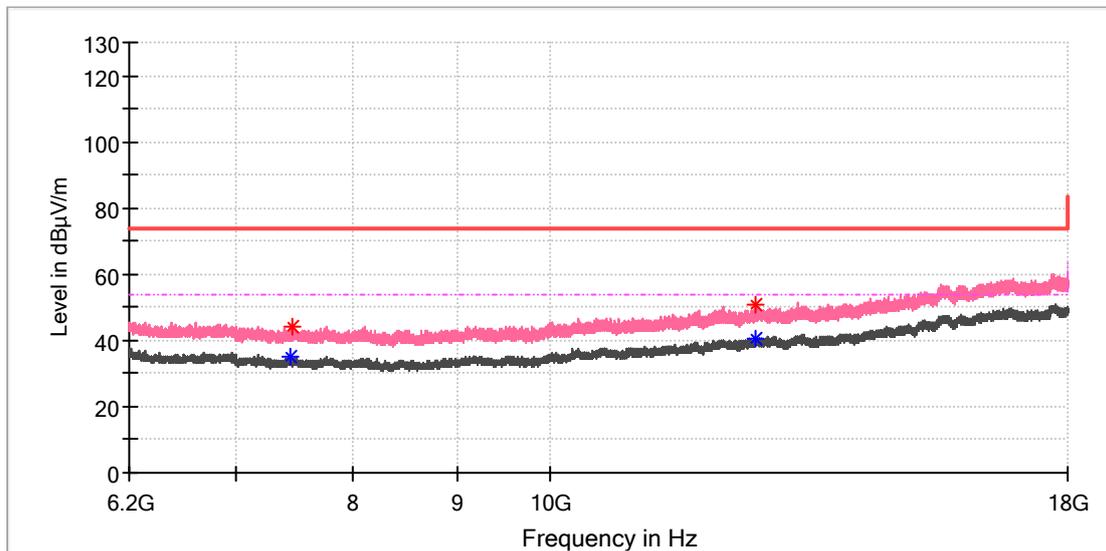
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7395.241667	44.03	---	74.00	29.97	150.0	H	314.0	8.3
7417.858333	---	34.52	54.00	19.48	150.0	H	278.0	8.3
13213.133333	50.32	---	74.00	23.68	150.0	H	0.0	15.5
13231.816667	---	41.81	54.00	12.19	150.0	H	278.0	15.5

Final Result

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

EUT Name:	Controller
Model:	RC520
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
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)
7452.766667	---	35.13	54.00	18.87	150.0	V	50.0	8.5
7468.991667	43.84	---	74.00	30.16	150.0	V	354.0	8.6
12616.741667	---	40.59	54.00	13.41	150.0	V	134.0	14.9
12625.100000	50.74	---	74.00	23.26	150.0	V	74.0	14.9

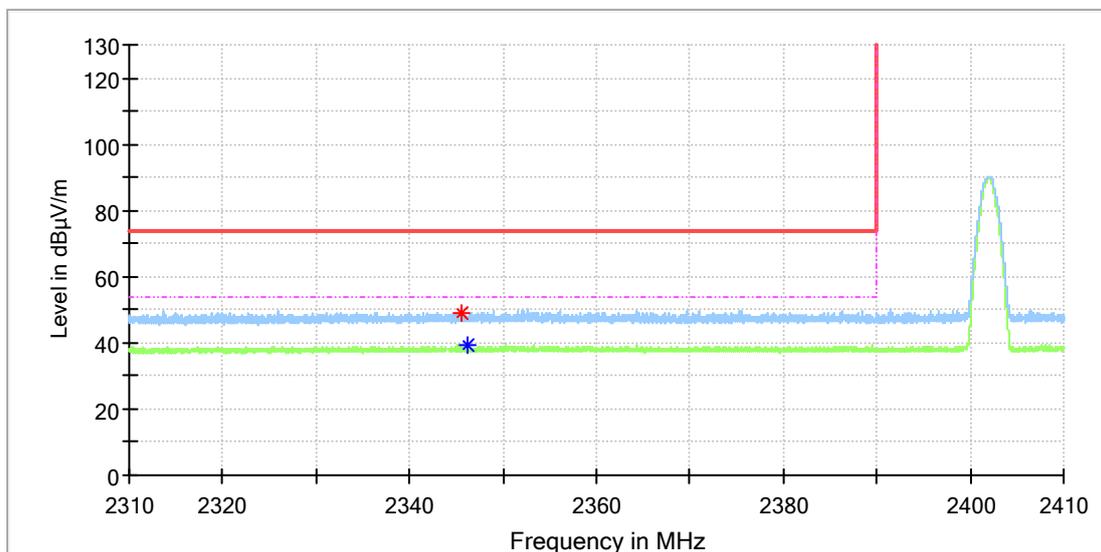
Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Appendix A.8: Test Results of Radiated Emissions in Restricted Bands

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
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)
2345.485294	49.02	---	74.00	24.98	150.0	H	134.0	6.9
2346.132353	---	39.19	54.00	14.81	150.0	H	0.0	6.9

Final Result

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