

Appendix A: Test Results of 5.8GHz

APPENDIX A: TEST RESULTS OF 5.8GHZ	1
APPENDIX B.1: TEST RESULTS OF CONDUCTED POWER SPECTRAL DENSITY	2
5.8GHz, 10MHz BW	2
5.8GHz, 20MHz BW	4
5.8GHz, 40MHz BW	6
APPENDIX A.2: TEST RESULTS OF FREQUENCY STABILITY	8
APPENDIX A.3: TEST RESULTS OF 6dB BANDWIDTH	9
5.8GHz, 10MHz BW	9
5.8GHz, 20MHz BW	11
5.8GHz, 40MHz BW	13
APPENDIX A.4: TEST RESULTS OF 99% BANDWIDTH	15
5.8GHz, 10MHz BW	15
5.8GHz, 20MHz BW	17
5.8GHz, 40MHz BW	19
APPENDIX A.5: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS	21
30MHz - 1GHz (Worst case)	21
1GHz - 18GHz	23
APPENDIX A.6: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS	35
APPENDIX A.7: TEST RESULTS OF AC CONDUCTED EMISSIONS	53

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

Note: This testing was carried out on both antenna port 1 and port 2, but only the worst case was presented in this report.

5.8GHz, 10MHz BW

TestMode	Antenna	Channel	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
5.8GHz Band	Ant1	5735.48	12.08	≤30.00	PASS
		5782.48	11.73	≤30.00	PASS
		5830.48	11.98	≤30.00	PASS

5.8GHz Band Ant1 5735.48



5.8GHz Band Ant1 5782.48



5.8GHz Band Ant1 5830.48



5.8GHz, 20MHz BW

TestMode	Antenna	Channel	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
5.8GHz Band	Ant1	5740.48	9.84	≤30.00	PASS
		5782.48	9.63	≤30.00	PASS
		5825.48	10.04	≤30.00	PASS

5.8GHz Band Ant1 5740.48



5.8GHz Band Ant1 5782.48



5.8GHz Band Ant1 5825.48



5.8GHz, 40MHz BW

TestMode	Antenna	Channel	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
5.8GHz Band	Ant1	5750.48	6.58	≤30.00	PASS
		5782.48	8.83	≤30.00	PASS
		5815.48	6.18	≤30.00	PASS



Appendix A.2: Test Results of Frequency Stability

This testing was carried out on both antenna port 1 and port 2, but only the worst case was presented in this report.
All modes tested, only worst-case reported.

TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
5.8GHz Band	Ant1	5735.48	NV	HT	-3000.00	-0.5231	20	PASS
			NV	LT	-3000.00	-0.5231	20	PASS
			NV	NT	-3000.00	-0.5231	20	PASS
		5782.48	NV	HT	-4000.00	-0.6917	20	PASS
			NV	LT	-4000.00	-0.6917	20	PASS
			NV	NT	-4000.00	-0.6917	20	PASS
		5830.48	NV	HT	-4000.00	-0.6860	20	PASS
			NV	LT	-4000.00	-0.6860	20	PASS
			NV	NT	-4000.00	-0.6860	20	PASS

Appendix A.3: Test Results of 6dB Bandwidth

Note: This testing was carried out on both antenna port 1 and port 2, but only the worst case was presented in this report.

5.8GHz, 10MHz BW

TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
5.8GHz Band	Ant1	5735.48	8.980	5731.020	5740.000	0.5	PASS
		5782.48	9.020	5778.000	5787.020	0.5	PASS
		5830.48	9.020	5826.000	5835.020	0.5	PASS

5.8GHz Band Ant1 5735.48



5.8GHz Band Ant1 5782.48



5.8GHz Band Ant1 5830.48



5.8GHz, 20MHz BW

TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
5.8GHz Band	Ant1	5740.48	17.680	5731.700	5749.380	0.5	PASS
		5782.48	17.800	5773.620	5791.420	0.5	PASS
		5825.48	17.960	5816.500	5834.460	0.5	PASS

5.8GHz Band Ant1 5740.48



5.8GHz Band Ant1 5782.48

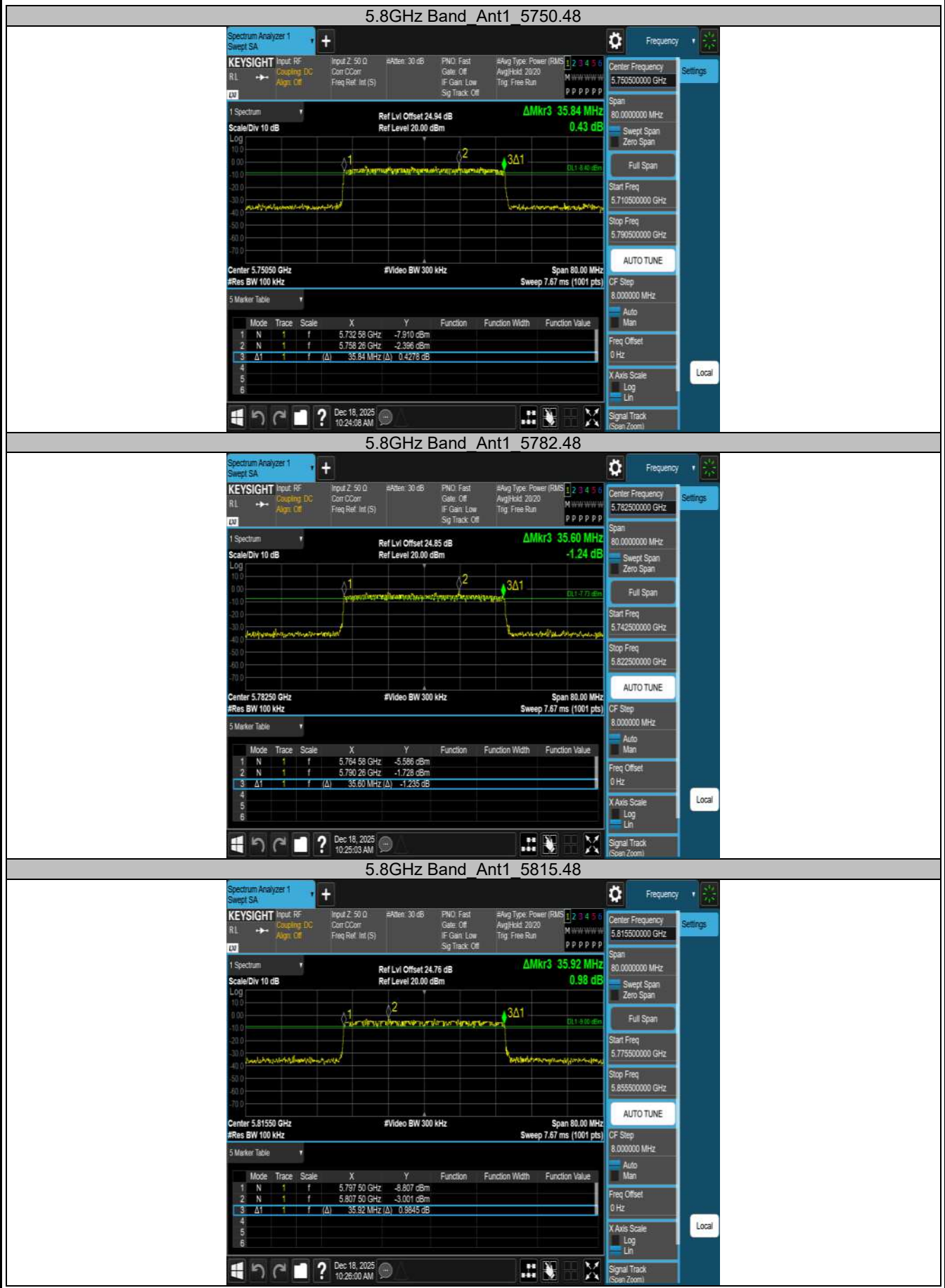


5.8GHz Band Ant1 5825.48



5.8GHz, 40MHz BW

TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
5.8GHz Band	Ant1	5750.48	35.840	5732.580	5768.420	0.5	PASS
		5782.48	35.600	5764.580	5800.180	0.5	PASS
		5815.48	35.920	5797.500	5833.420	0.5	PASS



Appendix A.4: Test Results of 99% Bandwidth

Note: This testing was carried out on both antenna port 1 and port 2, but only the worst case was presented in this report.

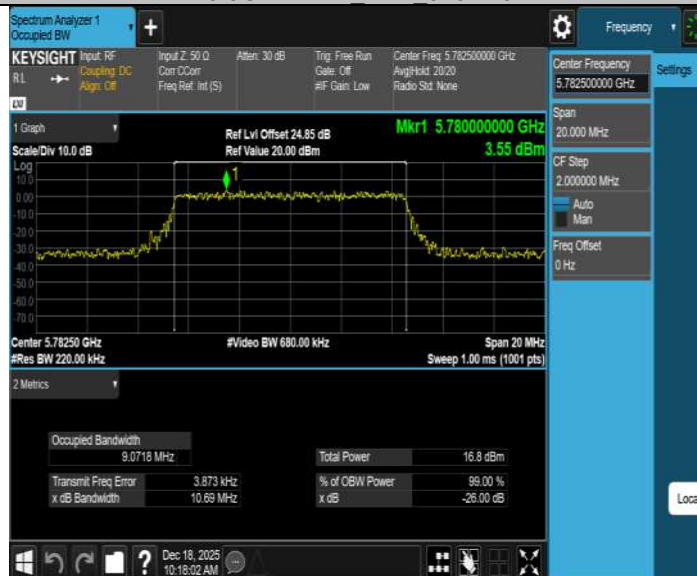
5.8GHz, 10MHz BW

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
5.8GHz Band	Ant1	5735.48	9.0513	5730.9786	5740.0299	---	---
		5782.48	9.0718	5777.9680	5787.0398	---	---
		5830.48	9.0230	5825.9886	5835.0116	---	---

5.8GHz Band Ant1 5735.48



5.8GHz Band Ant1 5782.48



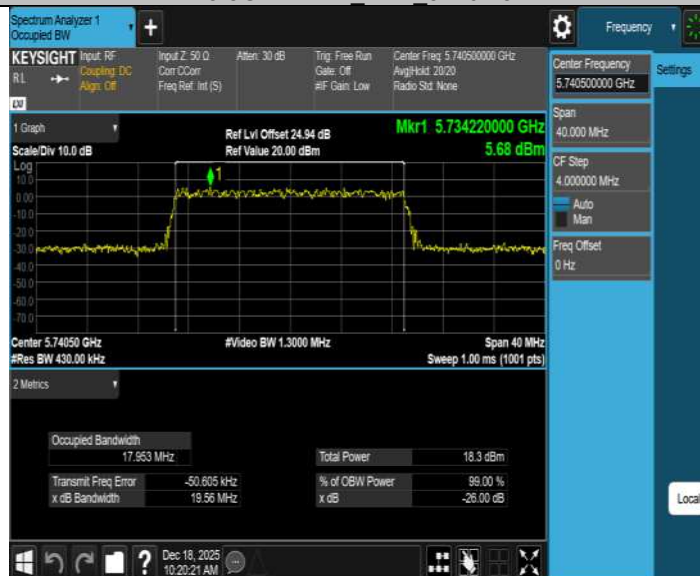
5.8GHz Band Ant1 5830.48



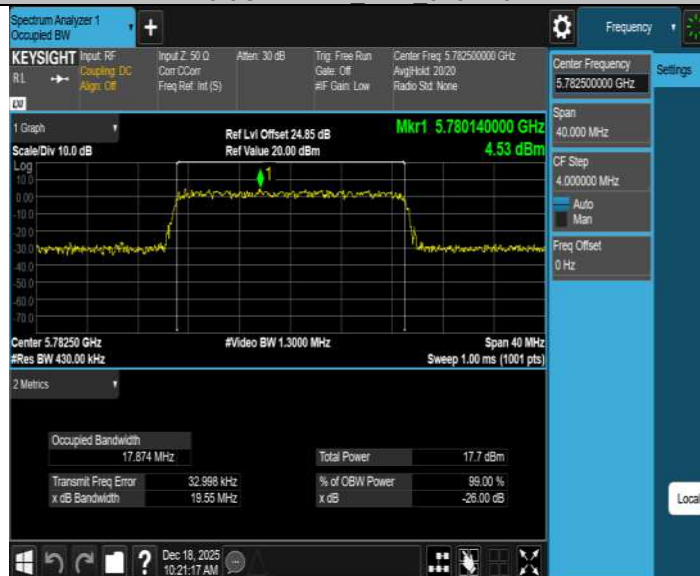
5.8GHz, 20MHz BW

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
5.8GHz Band	Ant1	5740.48	17.953	5731.4729	5749.4259	---	---
		5782.48	17.874	5773.5960	5791.4700	---	---
		5825.48	17.996	5816.5129	5834.5089	---	---

5.8GHz Band Ant1 5740.48



5.8GHz Band Ant1 5782.48



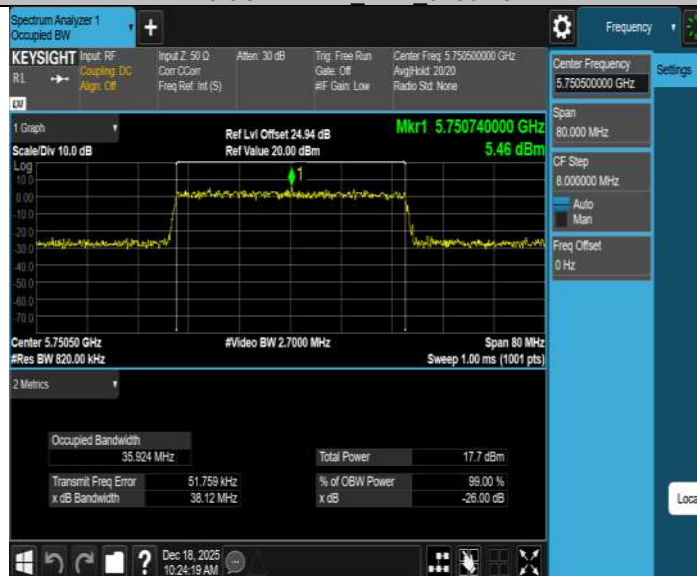
5.8GHz Band Ant1 5825.48



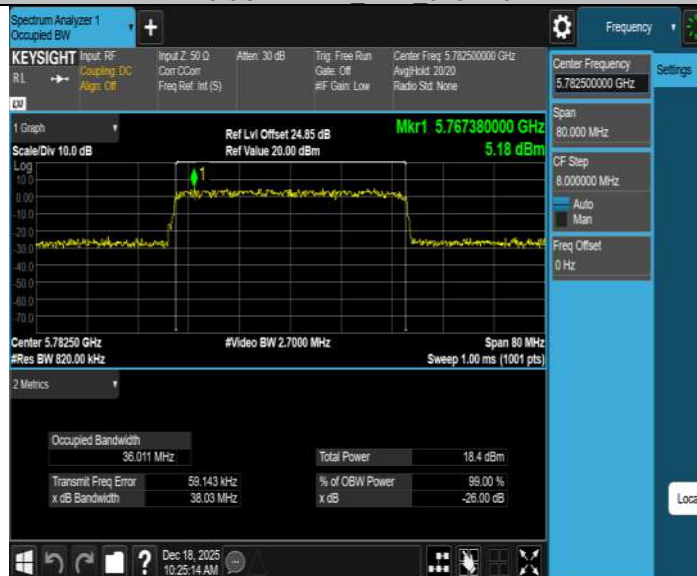
5.8GHz, 40MHz BW

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
5.8GHz Band	Ant1	5750.48	35.924	5732.5898	5768.5138	---	---
		5782.48	36.011	5764.5536	5800.5646	---	---
		5815.48	36.041	5797.5156	5833.5566	---	---

5.8GHz Band Ant1 5750.48



5.8GHz Band Ant1 5782.48



5.8GHz Band Ant1 5815.48



Appendix A.5: Test Results of Radiated Spurious Emissions

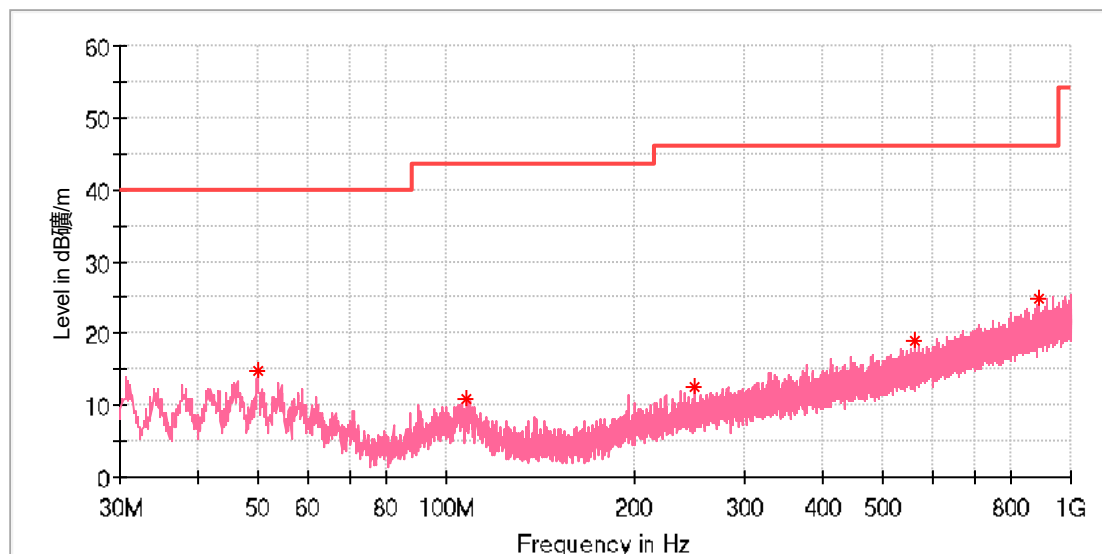
Note:

- 1) This testing was carried out on both antenna port 1 and port 2, but only the worst case was presented in this report.
- 2) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 3) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz – 40GHz were the floor-noise and far below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30MHz - 1GHz (Worst case)

EUT Information

EUT Name: Unmanned Aircraft
Model: FMAWZOD
Test Mode: 5.8G_10M_5782.48MHz
Order No/Sample No: 168585292/A004141367-002
Test Voltage:: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

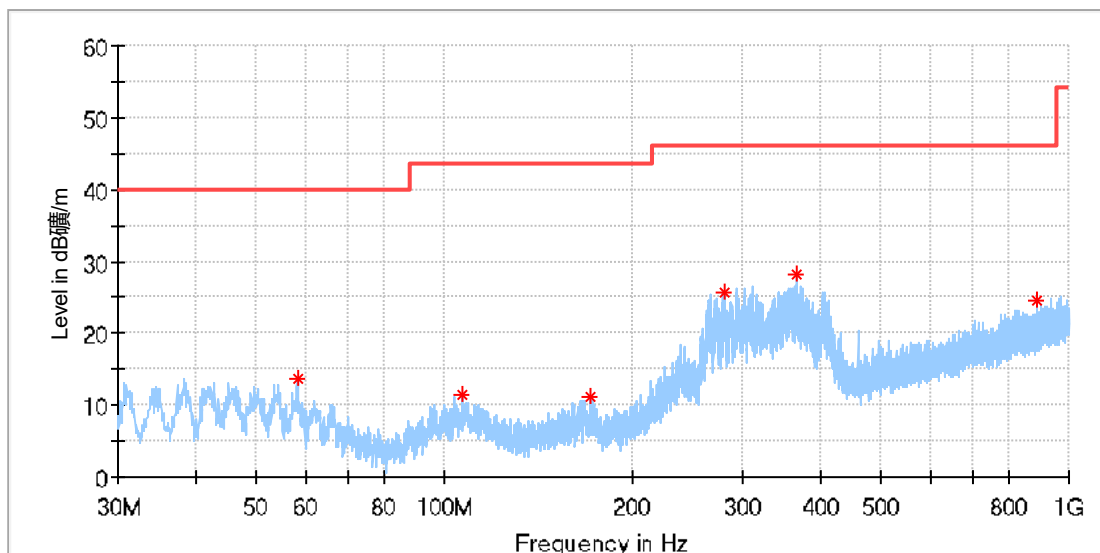
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.885000	14.79	40.00	25.21	100.0	V	93.0	-18.4
107.977222	10.96	43.50	32.54	100.0	V	359.0	-19.1
248.842778	12.55	46.00	33.45	100.0	V	63.0	-17.4
562.799444	18.85	46.00	27.15	100.0	V	22.0	-10.5
890.982778	24.73	46.00	21.27	100.0	V	248.0	-4.9

Final_Result

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

EUT Information

EUT Name: Unmanned Aircraft
Model: FMAWZOD
Test Mode: 5.8G_10M_5782.48MHz
Order No/Sample No: 168585292/A004141367-002
Test Voltage:: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.407
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)
58.130000	13.59	40.00	26.41	100.0	H	254.0	-18.9
106.737778	11.39	43.50	32.11	100.0	H	317.0	-19.0
171.350556	11.12	43.50	32.38	100.0	H	353.0	-21.3
280.313889	25.65	46.00	20.35	100.0	H	121.0	-16.7
366.590000	28.26	46.00	17.74	100.0	H	112.0	-14.5
890.982778	24.68	46.00	21.32	100.0	H	0.0	-4.9

Final_Result

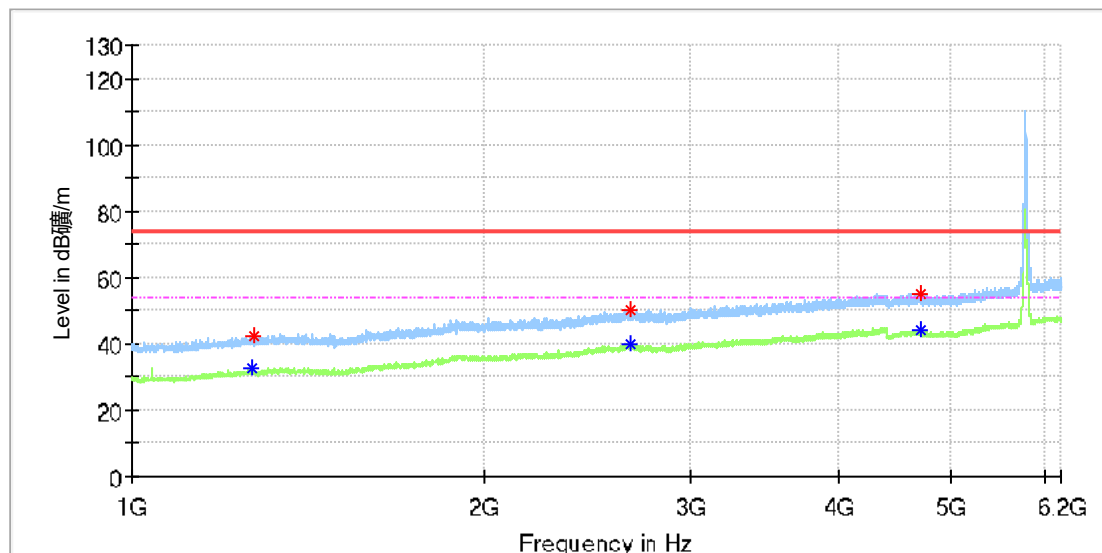
Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

1GHz - 18GHz

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

EUT Information

EUT Name:	Unmanned Aircraft
Model:	FMAWZOD
Test Mode:	5.8G_10M_5782.48MHz
Order No/Sample No:	168585292/A004141367-002
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

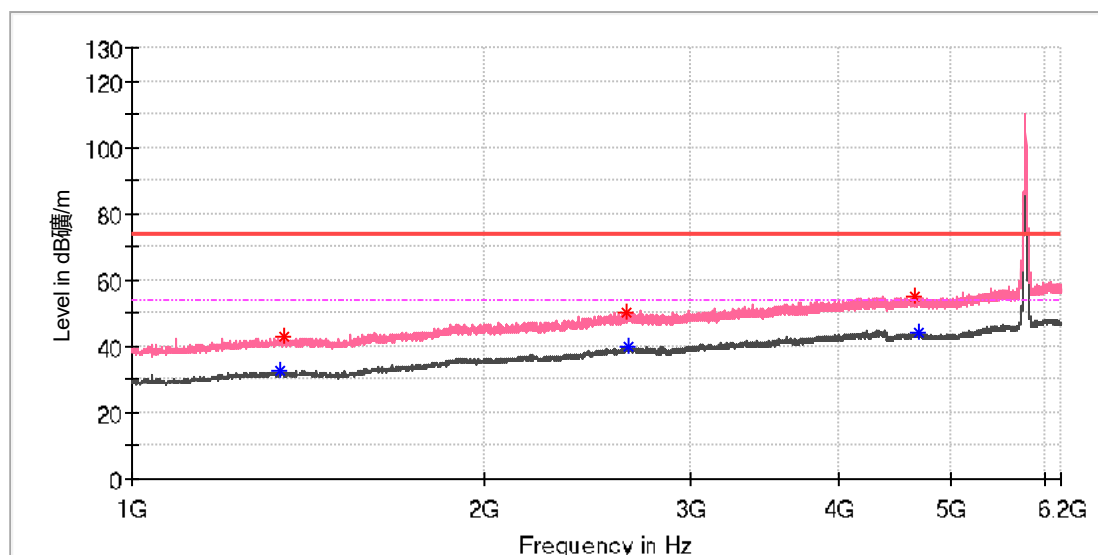
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1268.500000	---	32.41	54.00	21.59	150.0	H	15.0	2.7
1270.000000	42.17	---	74.00	31.83	150.0	H	187.0	2.7
2661.500000	---	39.79	54.00	14.21	150.0	H	9.0	10.2
2666.000000	50.08	---	74.00	23.92	150.0	H	102.0	10.2
4707.000000	---	43.84	54.00	10.16	150.0	H	199.0	13.5
4714.000000	55.06	---	74.00	18.94	150.0	H	206.0	13.4

Final_Result

[illegible]

EUT Information

EUT Name:	Unmanned Aircraft
Model:	FMAWZOD
Test Mode:	5.8G_10M_5782.48MHz
Order No/Sample No:	168585292/A004141367-002
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

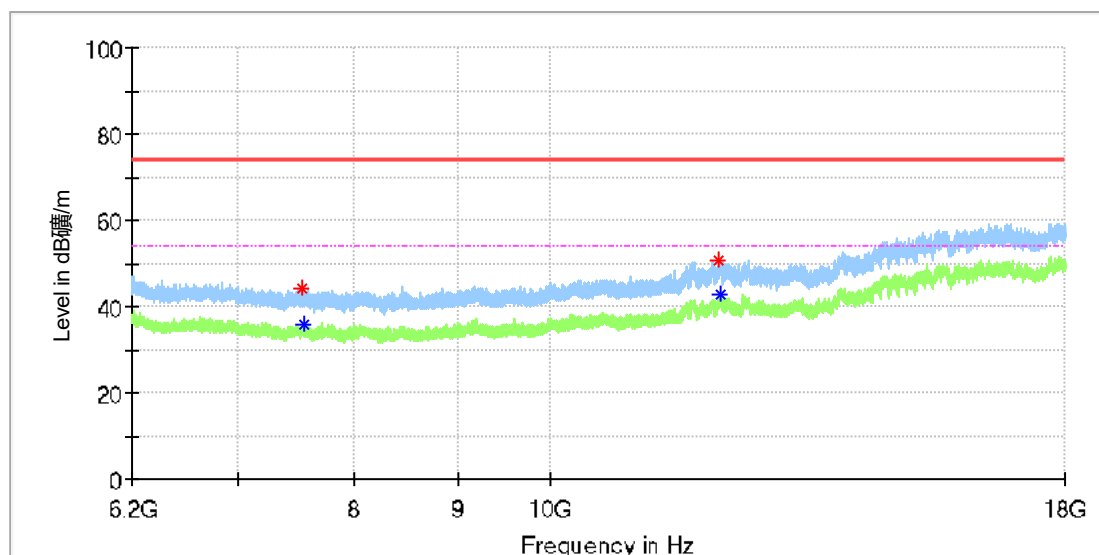
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
1337.000000	---	32.70	54.00	21.30	150.0	V	54.0	3.0
1350.000000	42.63	---	74.00	31.37	150.0	V	30.0	3.1
2637.000000	50.09	---	74.00	23.91	150.0	V	24.0	10.0
2647.000000	---	39.70	54.00	14.30	150.0	V	305.0	10.1
4655.500000	55.19	---	74.00	18.81	150.0	V	276.0	13.5
4685.000000	---	43.95	54.00	10.05	150.0	V	59.0	13.5

Final_Result

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

EUT Information

EUT Name:	Unmanned Aircraft
Model:	FMAWZOD
Test Mode:	5.8G_10M_5782.48MHz
Order No/Sample No:	168585292/A004141367-002
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

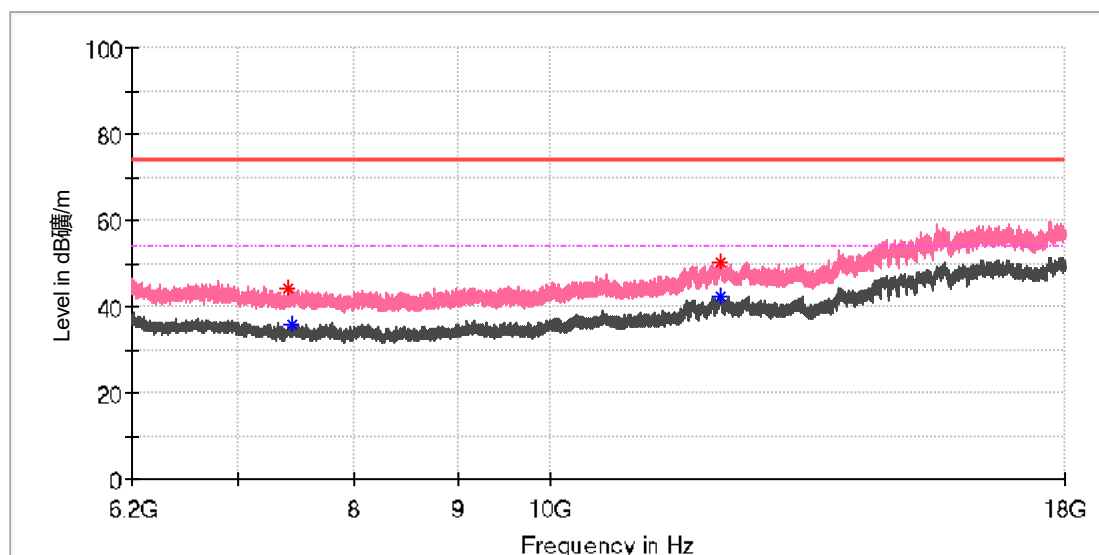
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7536.350000	44.26	---	74.00	29.74	150.0	H	17.0	8.7
7553.558333	---	35.74	54.00	18.26	150.0	H	17.0	8.7
12131.466667	50.92	---	74.00	23.08	150.0	H	0.0	16.2
12144.250000	---	42.91	54.00	11.09	150.0	H	69.0	16.6

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.00	100.00	100.00	100.00	100.00	100.00		100.00	100.00

EUT Information

EUT Name:	Unmanned Aircraft
Model:	FMAWZOD
Test Mode:	5.8G_10M_5782.48MHz
Order No/Sample No:	168585292/A004141367-002
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

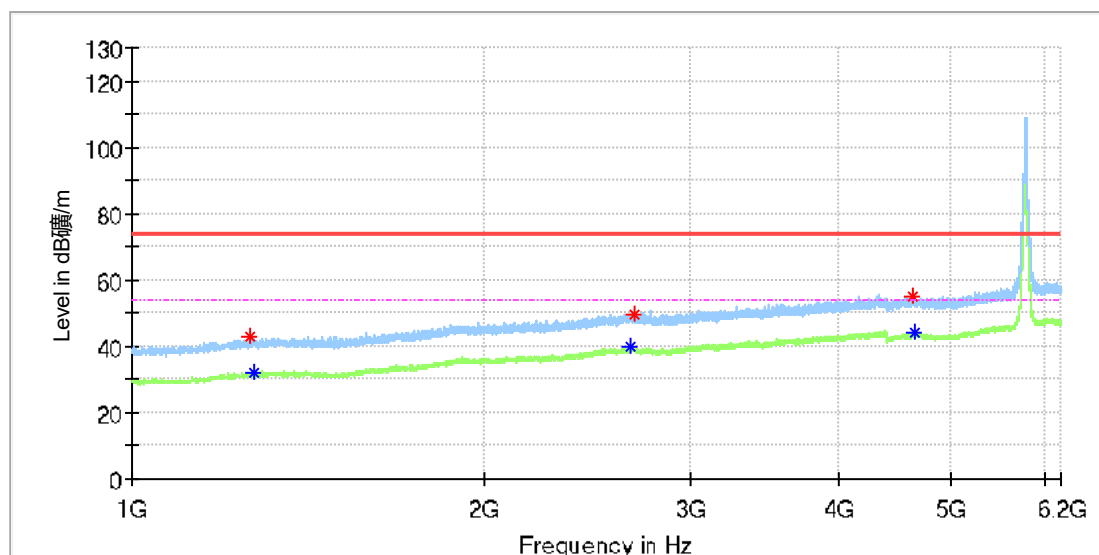
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7407.533333	44.38	---	74.00	29.62	150.0	V	265.0	8.3
7445.391667	---	35.85	54.00	18.15	150.0	V	0.0	8.5
12134.908333	50.16	---	74.00	23.84	150.0	V	212.0	16.3
12145.725000	---	42.48	54.00	11.52	150.0	V	233.0	16.6

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.000000	100.000000	100.000000	100.000000	100.000000	100.000000		100.000000	100.000000

EUT Information

EUT Name:	Unmanned Aircraft
Model:	FMAWZOD
Test Mode:	5.8G_20M_5782.48MHz
Order No/Sample No:	168585292/A004141367-002
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

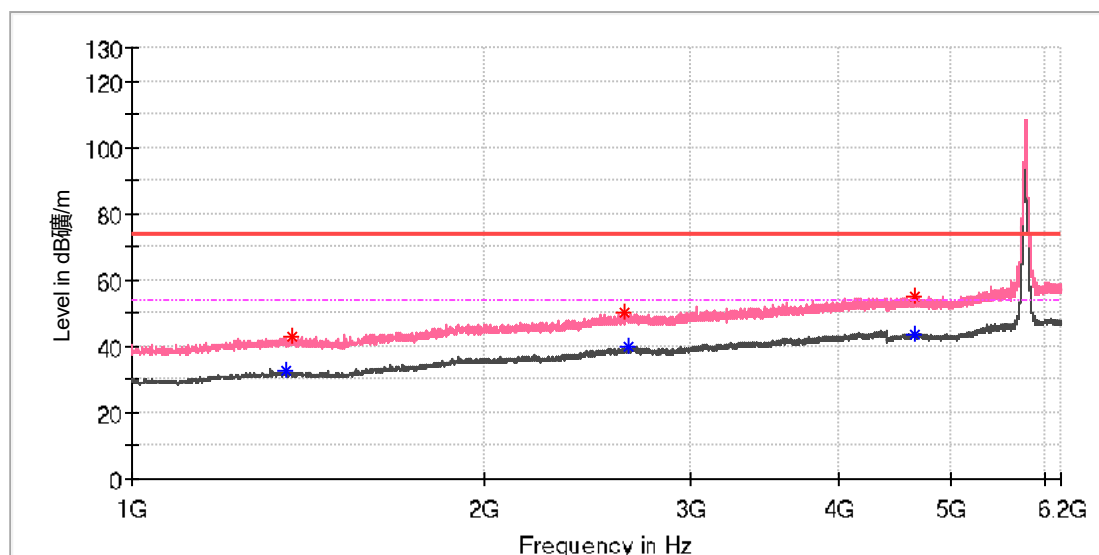
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
1263.000000	42.85	---	74.00	31.15	150.0	H	142.0	2.7
1271.500000	---	32.05	54.00	21.95	150.0	H	80.0	2.7
2660.000000	---	39.62	54.00	14.38	150.0	H	199.0	10.2
2681.500000	49.60	---	74.00	24.40	150.0	H	12.0	10.1
4638.000000	55.22	---	74.00	18.78	150.0	H	276.0	13.5
4649.500000	---	44.08	54.00	9.92	150.0	H	342.0	13.5

Final_Result

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

EUT Information

EUT Name:	Unmanned Aircraft
Model:	FMAWZOD
Test Mode:	5.8G_20M_5782.48MHz
Order No/Sample No:	168585292/A004141367-002
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

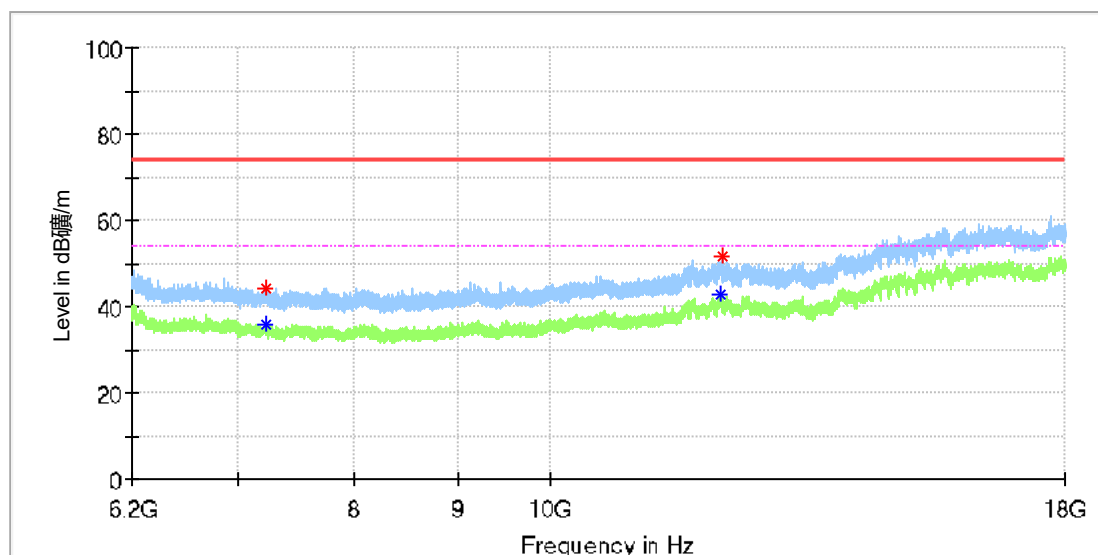
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
1351.500000	---	32.40	54.00	21.60	150.0	V	163.0	3.1
1367.500000	42.91	---	74.00	31.09	150.0	V	247.0	3.1
2633.500000	50.11	---	74.00	23.89	150.0	V	204.0	10.0
2649.000000	---	40.09	54.00	13.91	150.0	V	157.0	10.1
4647.500000	---	43.83	54.00	10.17	150.0	V	206.0	13.5
4653.500000	55.17	---	74.00	18.83	150.0	V	259.0	13.5

Final Result

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

EUT Information

EUT Name:	Unmanned Aircraft
Model:	FMAWZOD
Test Mode:	5.8G_20M_5782.48MHz
Order No/Sample No:	168585292/A004141367-002
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

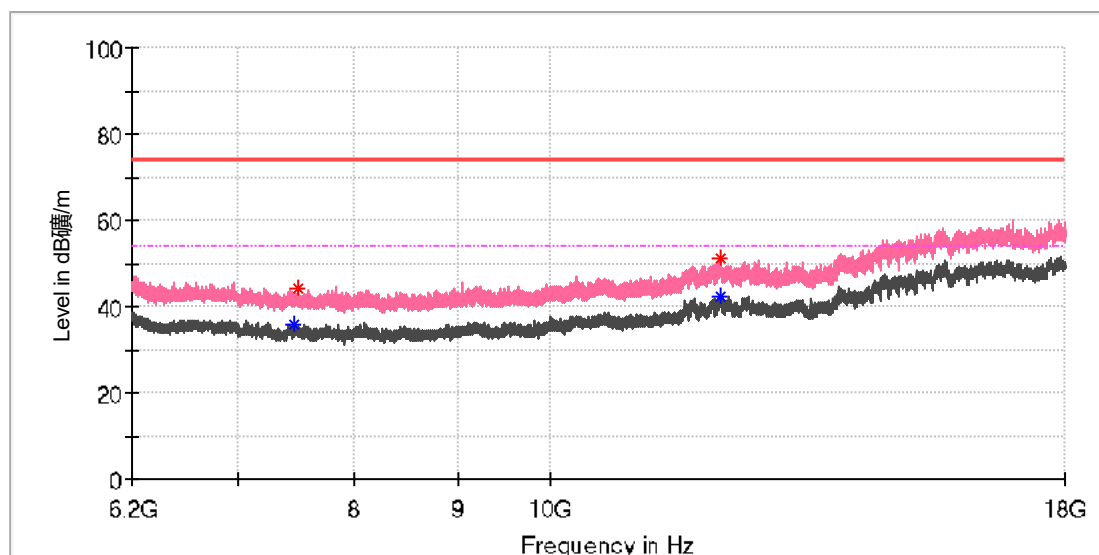
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7221.191667	---	35.81	54.00	18.19	150.0	H	169.0	8.7
7226.600000	44.35	---	74.00	29.65	150.0	H	147.0	8.7
12148.675000	---	42.72	54.00	11.28	150.0	H	30.0	16.7
12162.441667	51.72	---	74.00	22.28	150.0	H	122.0	16.1

Final Result

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

EUT Information

EUT Name:	Unmanned Aircraft
Model:	FMAWZOD
Test Mode:	5.8G_20M_5782.48MHz
Order No/Sample No:	168585292/A004141367-002
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

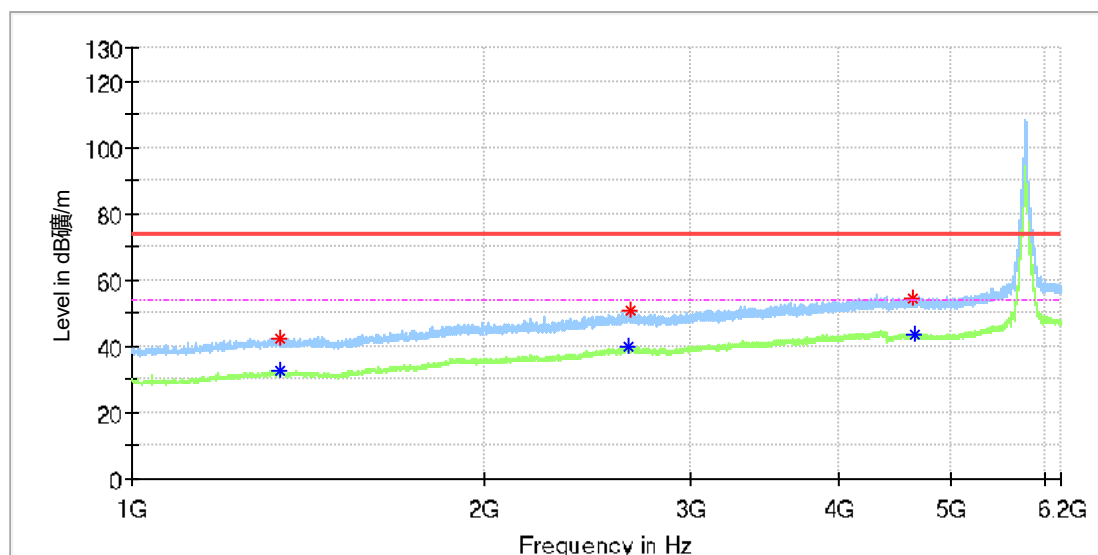
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7466.533333	---	35.76	54.00	18.24	150.0	V	301.0	8.6
7498.000000	44.07	---	74.00	29.93	150.0	V	0.0	8.7
12139.333333	---	42.44	54.00	11.56	150.0	V	177.0	16.5
12154.083333	51.03	---	74.00	22.97	150.0	V	230.0	16.5

Final Result

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

EUT Information

EUT Name:	Unmanned Aircraft
Model:	FMAWZOD
Test Mode:	5.8G_40M_5782.48MHz
Order No/Sample No:	168585292/A004141367-002
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

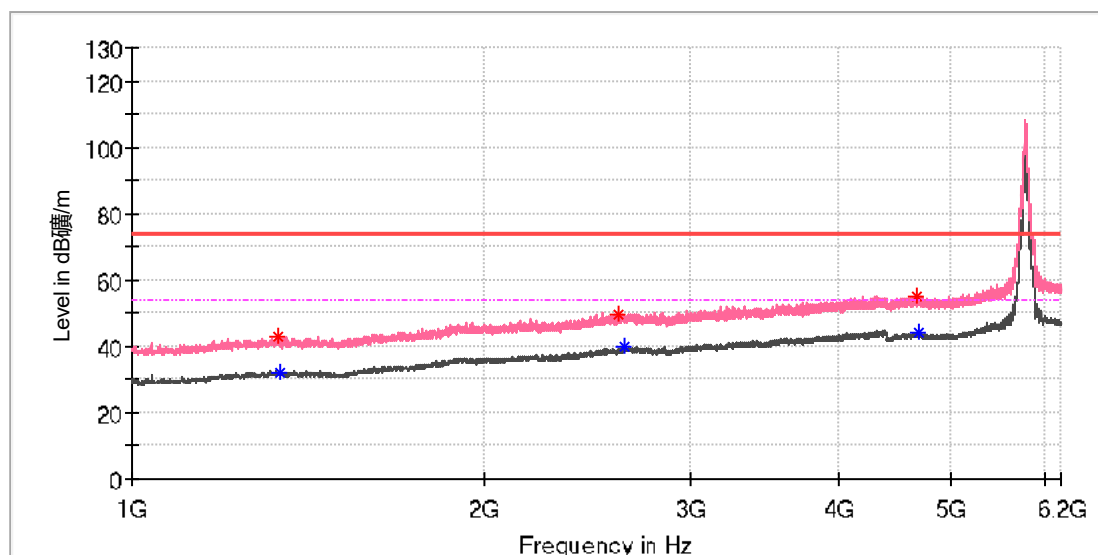
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
1338.000000	---	32.63	54.00	21.37	150.0	H	61.0	3.0
1338.500000	42.62	---	74.00	31.38	150.0	H	190.0	3.0
2655.000000	---	39.88	54.00	14.12	150.0	H	256.0	10.2
2663.000000	50.49	---	74.00	23.51	150.0	H	171.0	10.2
4640.500000	54.38	---	74.00	19.62	150.0	H	286.0	13.5
4654.500000	---	43.54	54.00	10.46	150.0	H	100.0	13.5

Final_Result

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

EUT Information

EUT Name:	Unmanned Aircraft
Model:	FMAWZOD
Test Mode:	5.8G_40M_5782.48MHz
Order No/Sample No:	168585292/A004141367-002
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

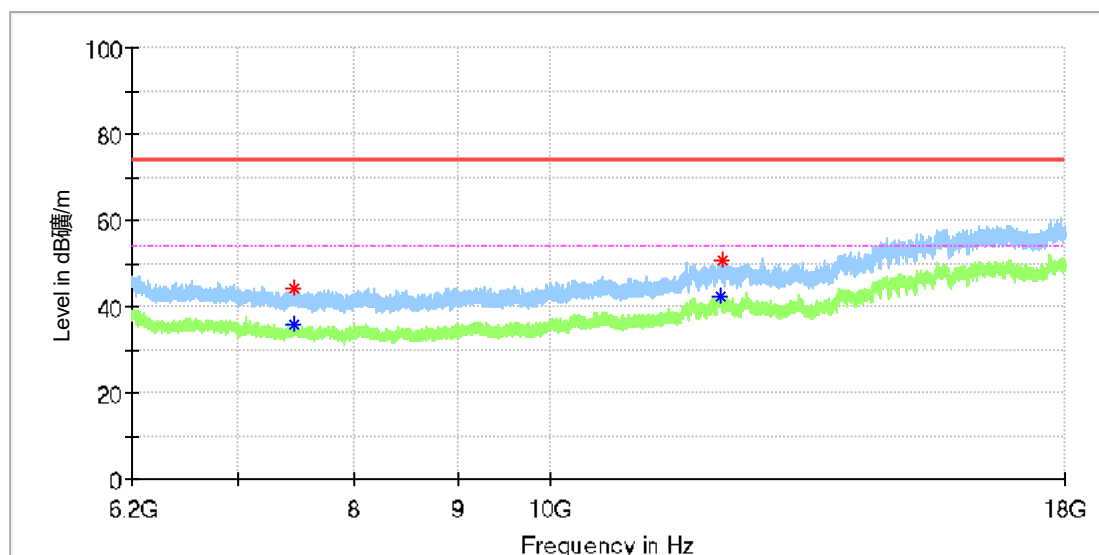
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1330.500000	42.84	---	74.00	31.16	150.0	V	328.0	3.0
1339.000000	---	32.22	54.00	21.78	150.0	V	20.0	3.0
2603.000000	49.63	---	74.00	24.37	150.0	V	188.0	9.6
2626.000000	---	40.19	54.00	13.81	150.0	V	130.0	9.9
4665.500000	54.86	---	74.00	19.14	150.0	V	330.0	13.5
4687.500000	---	44.03	54.00	9.97	150.0	V	175.0	13.5

Final Result

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

EUT Information

EUT Name:	Unmanned Aircraft
Model:	FMAWZOD
Test Mode:	5.8G_40M_5782.48MHz
Order No/Sample No:	168585292/A004141367-002
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

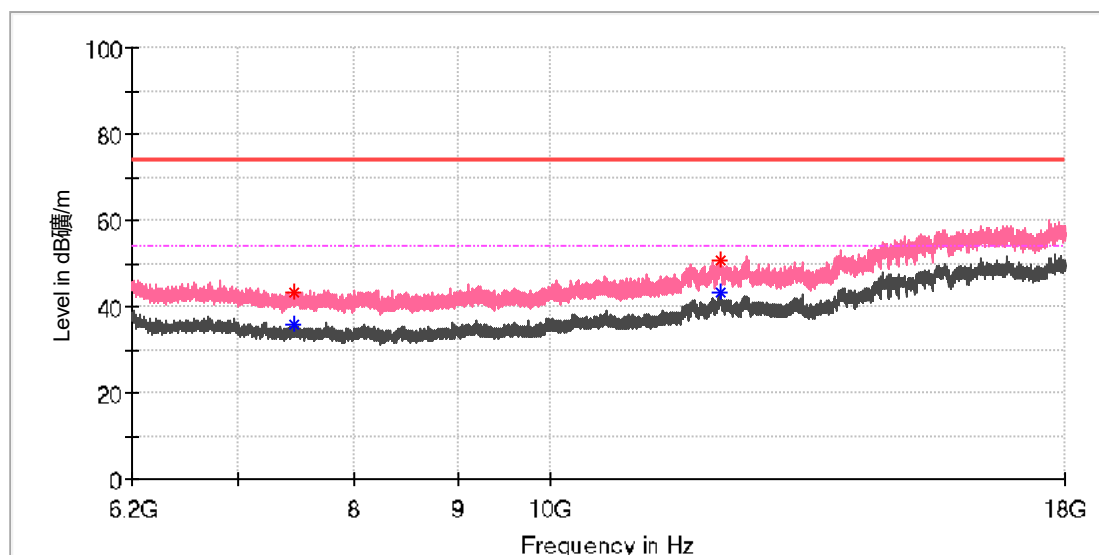
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7458.666667	---	35.82	54.00	18.18	150.0	H	0.0	8.5
7467.025000	44.31	---	74.00	29.69	150.0	H	276.0	8.6
12149.166667	---	42.55	54.00	11.45	150.0	H	59.0	16.7
12170.800000	50.85	---	74.00	23.15	150.0	H	14.0	15.7

Final Result

[illegible]

EUT Information

EUT Name:	Unmanned Aircraft
Model:	FMAWZOD
Test Mode:	5.8G_40M_5782.48MHz
Order No/Sample No:	168585292/A004141367-002
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.407
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)
7454.241667	43.42	---	74.00	30.58	150.0	V	233.0	8.5
7469.483333	---	35.95	54.00	18.05	150.0	V	180.0	8.6
12136.875000	---	43.05	54.00	10.95	150.0	V	0.0	16.4
12144.741667	50.55	---	74.00	23.45	150.0	V	0.0	16.6

Final Result

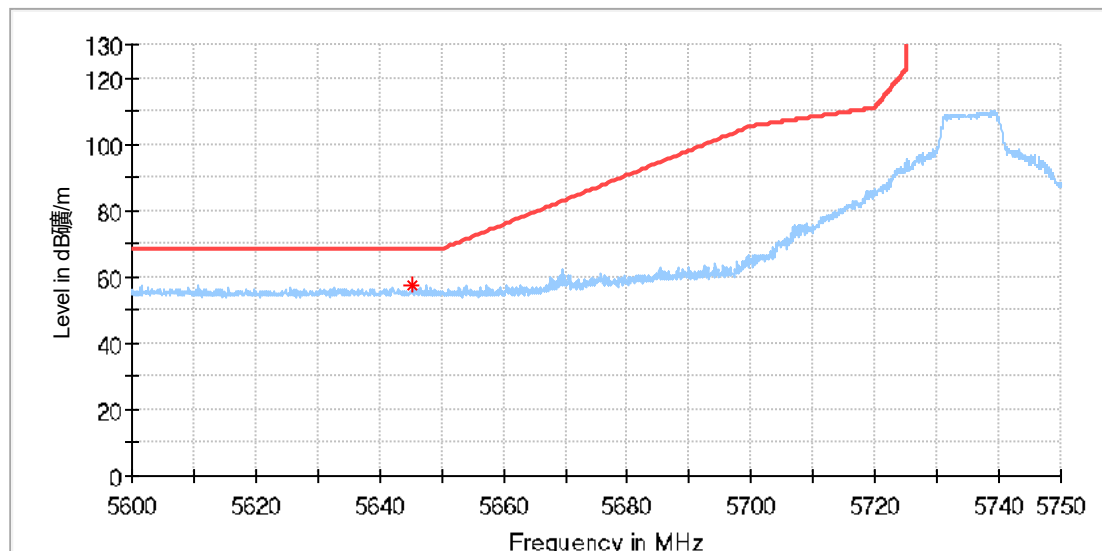
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

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

Note: This testing was carried out on both antenna port 1 and port 2, but only the worst case was presented in this report.

EUT Information

EUT Name:	Unmanned Aircraft
Model:	FMAWZOD
Test Mode:	5.8G_10M_5735.48MHz
Order No/Sample No:	168585292/A004141367-002
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

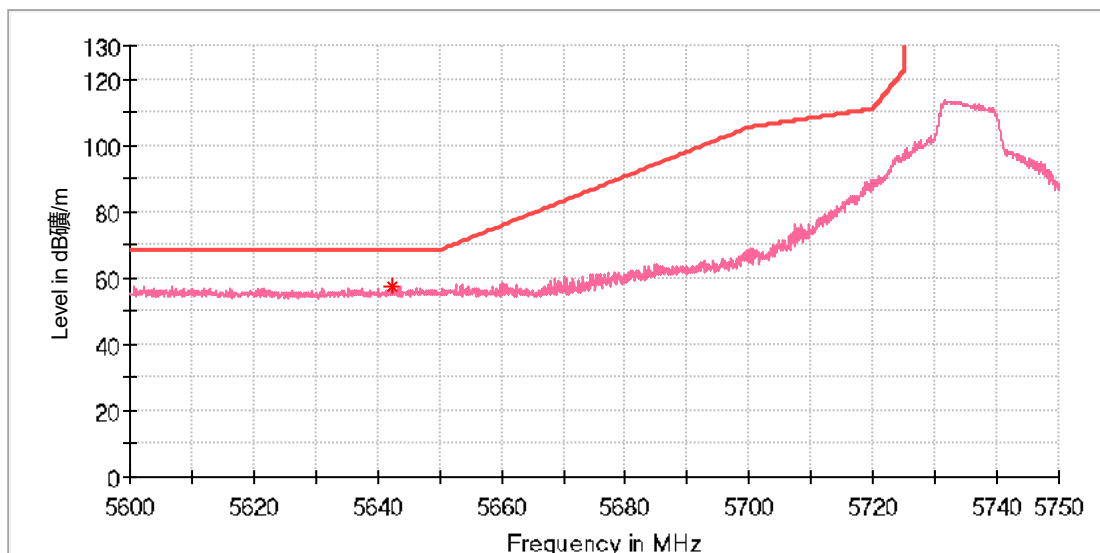
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5645.405556	57.37	68.20	10.83	150.0	H	176.0	15.3

Final_Result

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

EUT Information

EUT Name: Unmanned Aircraft
Model: FMAWZOD
Test Mode: 5.8G_10M_5735.48MHz
Order No/Sample No: 168585292/A004141367-002
Test Voltage:: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

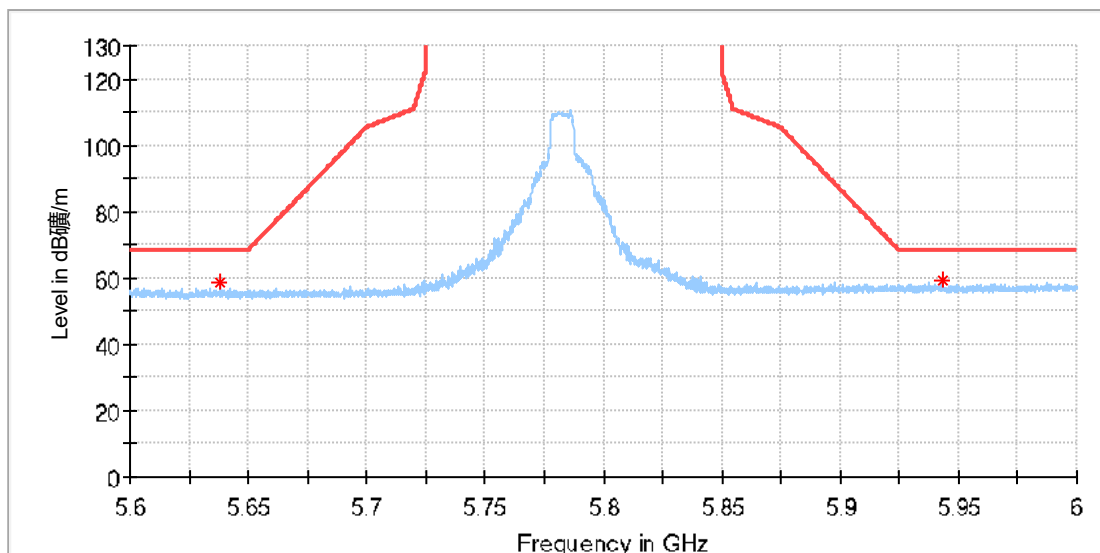
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5642.288889	57.54	68.20	10.66	150.0	V	36.0	15.3

Final_Result

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

EUT Information

EUT Name: Unmanned Aircraft
Model: FMAWZOD
Test Mode: 5.8G_10M_5782.48MHz
Order No/Sample No: 168585292/A004141367-002
Test Voltage:: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

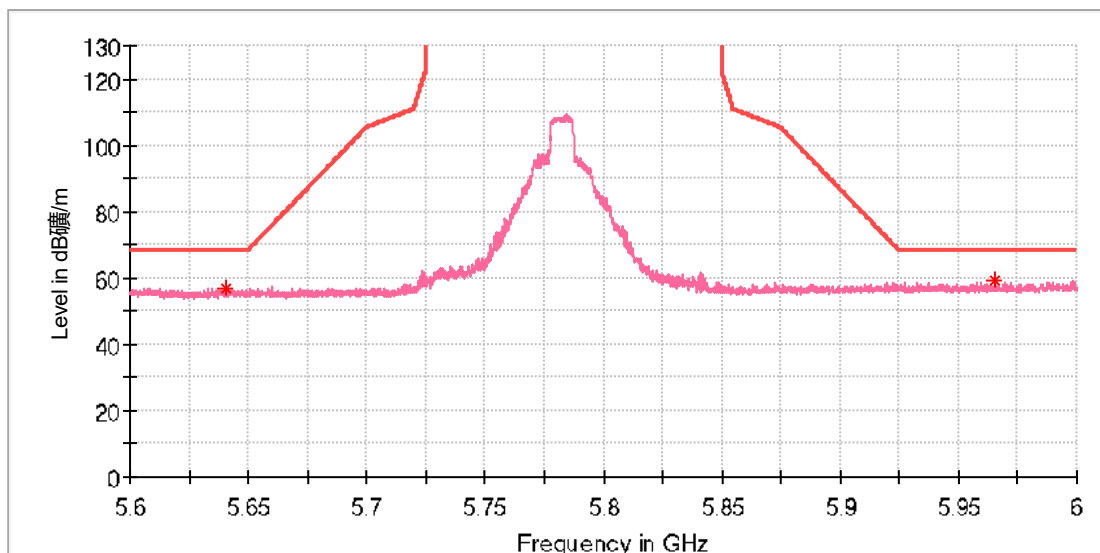
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5637.888889	58.44	68.20	9.76	150.0	H	0.0	15.3
5943.000000	58.98	68.20	9.22	150.0	H	0.0	16.2

Final_Result

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

EUT Information

EUT Name: Unmanned Aircraft
Model: FMAWZOD
Test Mode: 5.8G_10M_5782.48MHz
Order No/Sample No: 168585292/A004141367-002
Test Voltage:: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

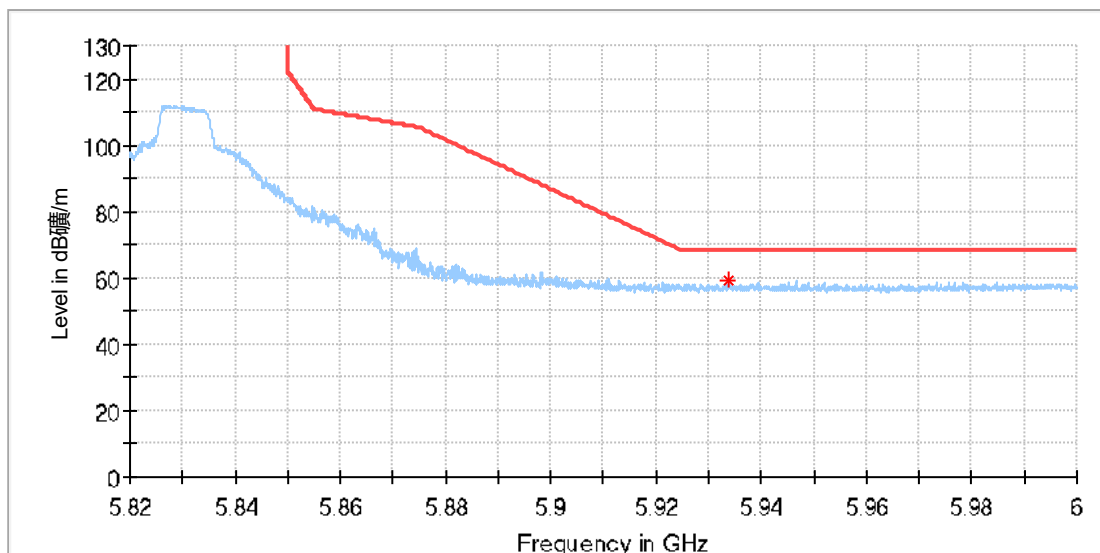
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5640.666667	56.94	68.20	11.26	150.0	V	81.0	15.3
5965.666667	59.07	68.20	9.13	150.0	V	116.0	16.3

Final_Result

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

EUT Information

EUT Name: Unmanned Aircraft
Model: FMAWZOD
Test Mode: 5.8G_10M_5830.48MHz
Order No/Sample No: 168585292/A004141367-002
Test Voltage:: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

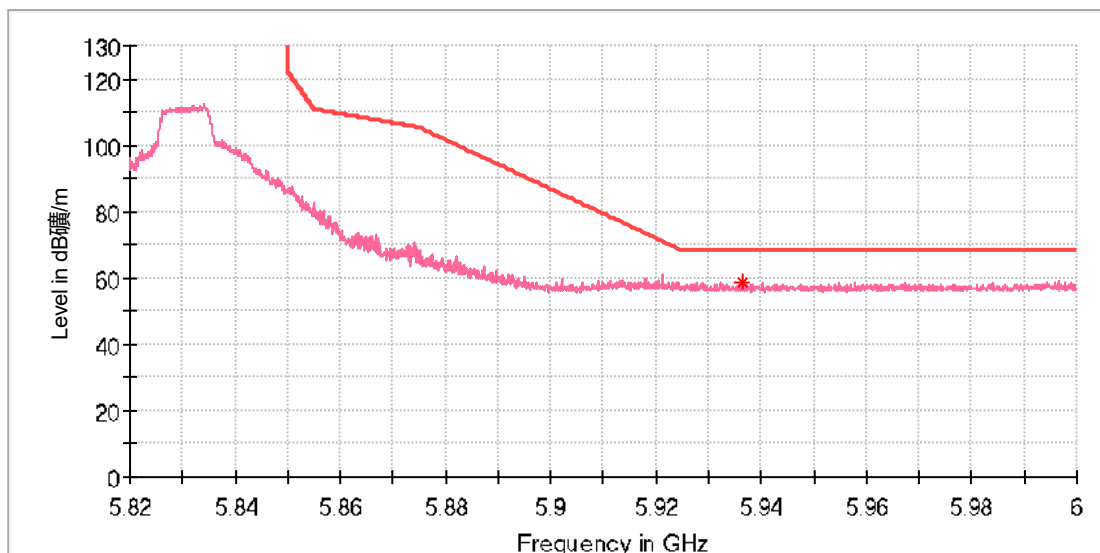
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5933.923611	59.31	68.20	8.89	150.0	H	238.0	16.2

Final_Result

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

EUT Information

EUT Name: Unmanned Aircraft
Model: FMAWZOD
Test Mode: 5.8G_10M_5830.48MHz
Order No/Sample No: 168585292/A004141367-002
Test Voltage:: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

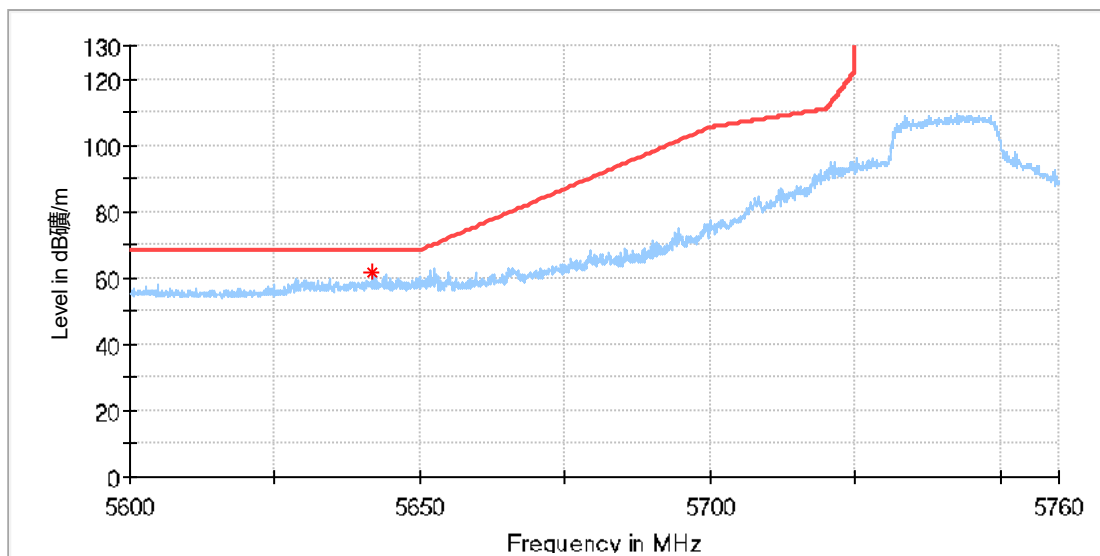
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5936.597222	58.60	68.20	9.60	150.0	V	356.0	16.2

Final_Result

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

EUT Information

EUT Name: Unmanned Aircraft
Model: FMAWZOD
Test Mode: 5.8G_20M_5740.48MHz
Order No/Sample No: 168585292/A004141367-002
Test Voltage:: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

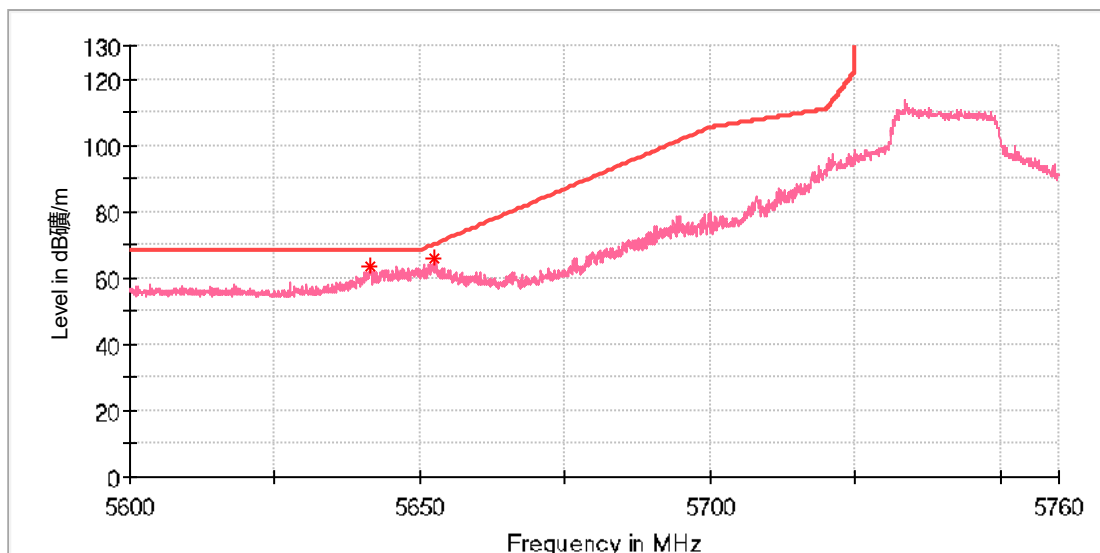
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5641.616667	61.41	68.20	6.79	150.0	H	214.0	15.3

Final_Result

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

EUT Information

EUT Name: Unmanned Aircraft
Model: FMAWZOD
Test Mode: 5.8G_20M_5740.48MHz
Order No/Sample No: 168585292/A004141367-002
Test Voltage:: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

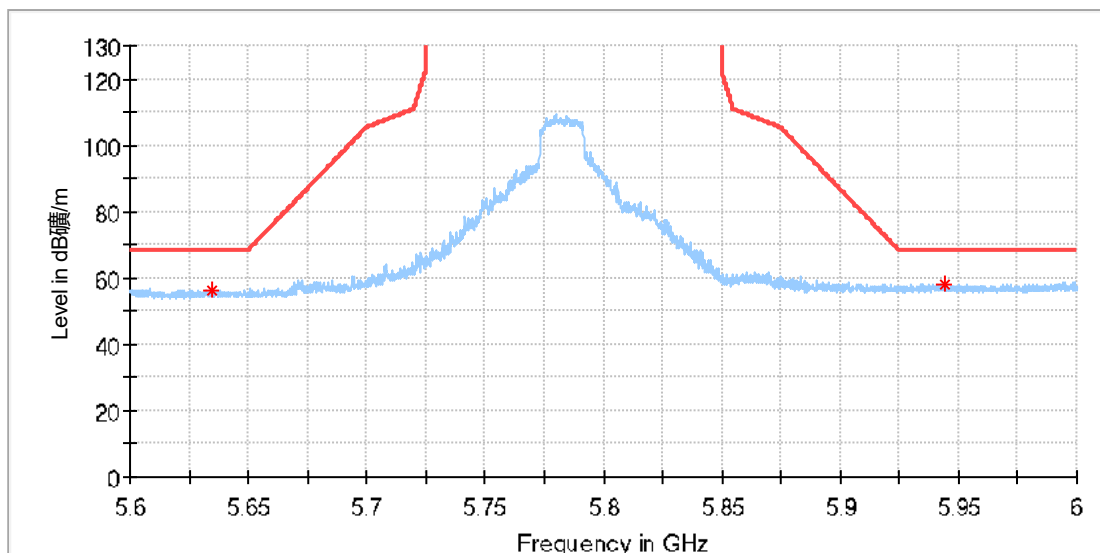
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5641.494445	63.59	68.20	4.61	150.0	V	10.0	15.3
5652.555556	65.72	70.10	4.37	150.0	V	5.0	15.3

Final_Result

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

EUT Information

EUT Name: Unmanned Aircraft
Model: FMAWZOD
Test Mode: 5.8G_20M_5782.48MHz
Order No/Sample No: 168585292/A004141367-002
Test Voltage:: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

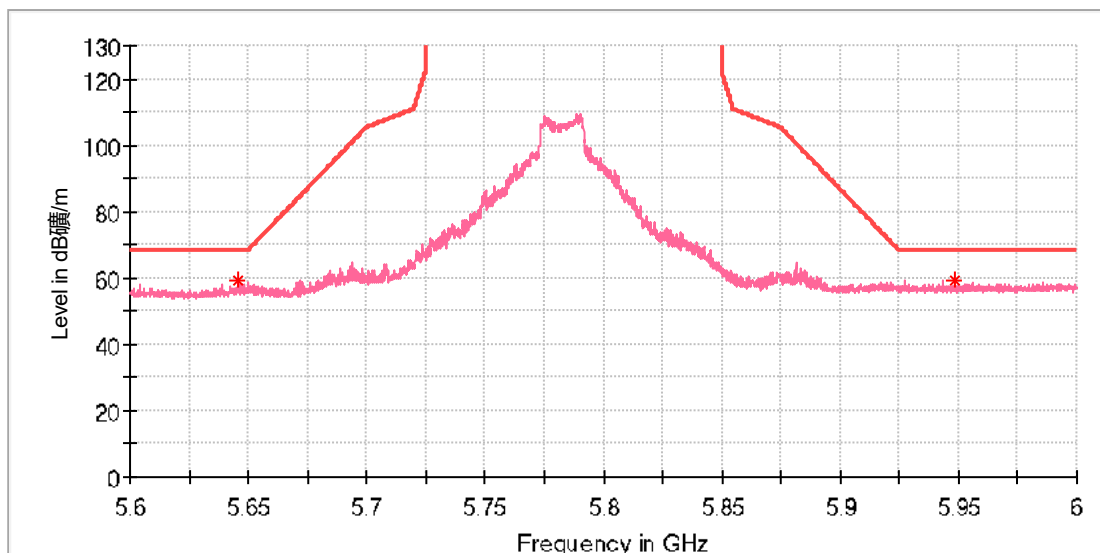
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5634.666667	56.38	68.20	11.82	150.0	H	11.0	15.3
5944.333333	58.30	68.20	9.90	150.0	H	213.0	16.2

Final_Result

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

EUT Information

EUT Name: Unmanned Aircraft
Model: FMAWZOD
Test Mode: 5.8G_20M_5782.48MHz
Order No/Sample No: 168585292/A004141367-002
Test Voltage:: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

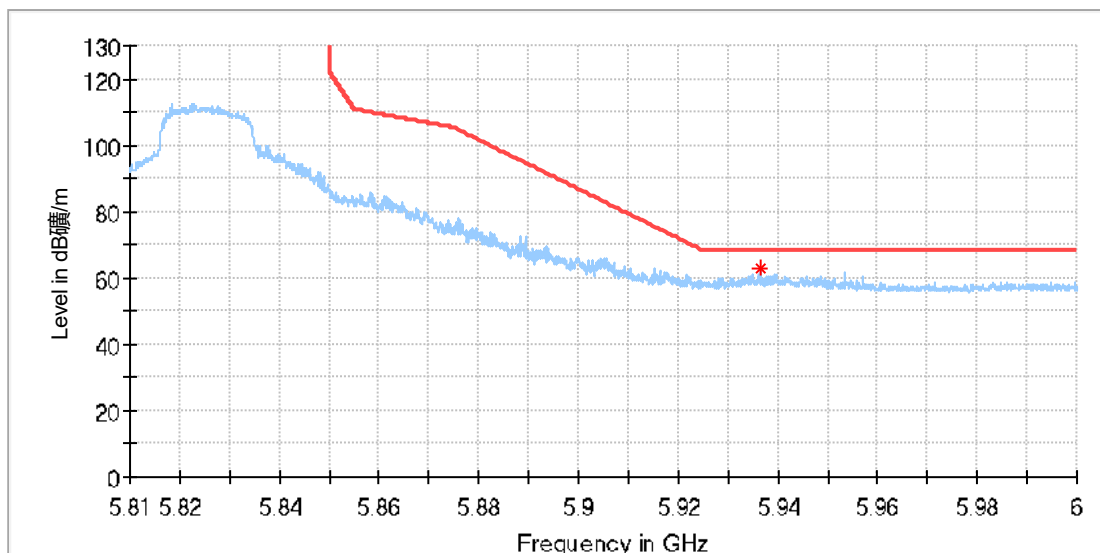
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5645.666667	59.49	68.20	8.71	150.0	V	6.0	15.3
5948.666667	59.21	68.20	8.99	150.0	V	337.0	16.3

Final_Result

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

EUT Information

EUT Name: Unmanned Aircraft
Model: FMAWZOD
Test Mode: 5.8G_20M_5825.48MHz
Order No/Sample No: 168585292/A004141367-002
Test Voltage:: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

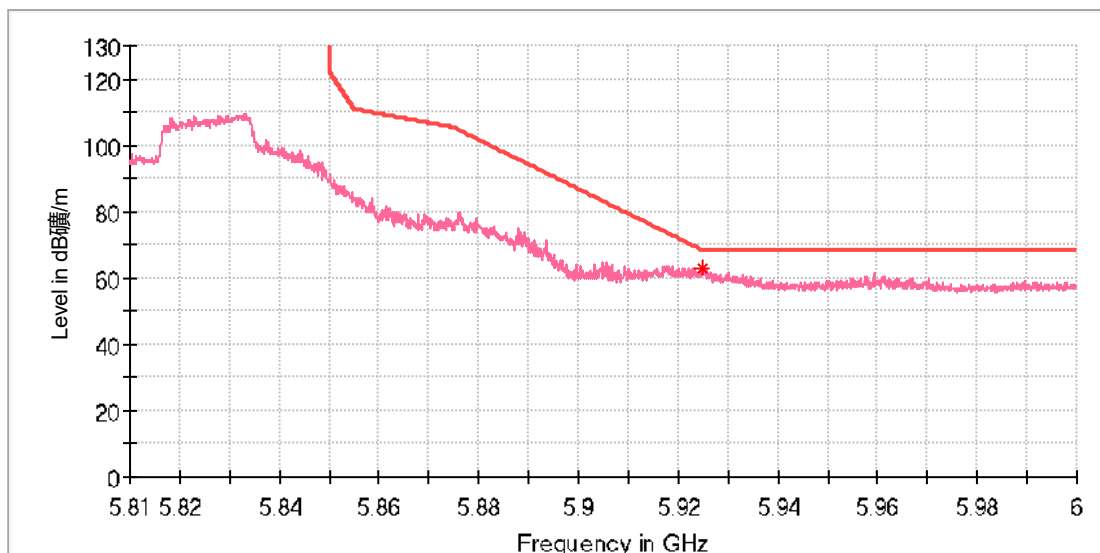
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5936.444445	63.03	68.20	5.17	150.0	H	19.0	16.2

Final_Result

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

EUT Information

EUT Name: Unmanned Aircraft
Model: FMAWZOD
Test Mode: 5.8G_20M_5825.48MHz
Order No/Sample No: 168585292/A004141367-002
Test Voltage:: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

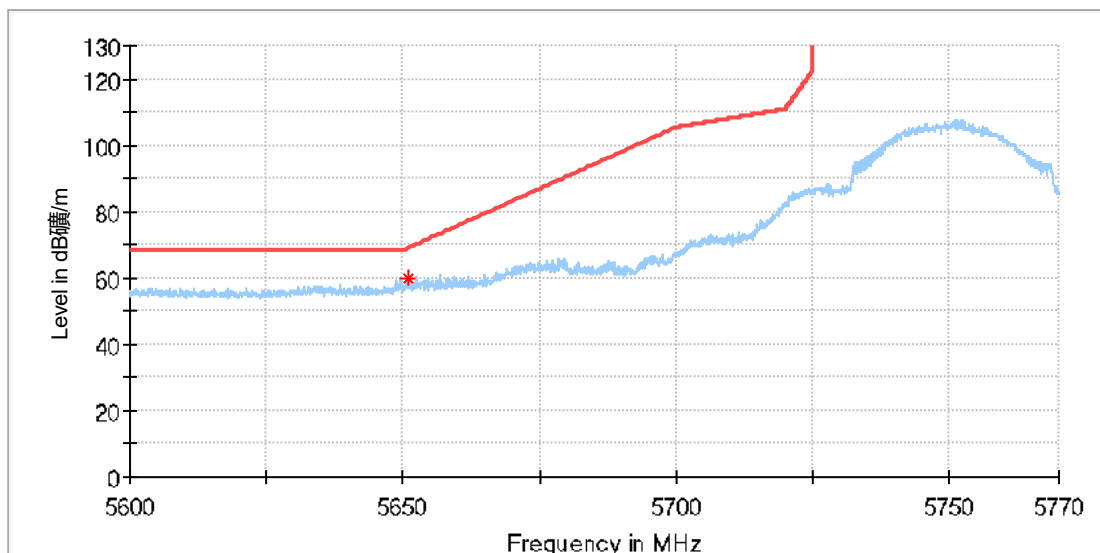
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5924.833333	63.00	68.32	5.32	150.0	V	4.0	16.1

Final_Result

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

EUT Information

EUT Name: Unmanned Aircraft
Model: FMAWZOD
Test Mode: 5.8G_40M_5750.48MHz
Order No/Sample No: 168585292/A004141367-002
Test Voltage:: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

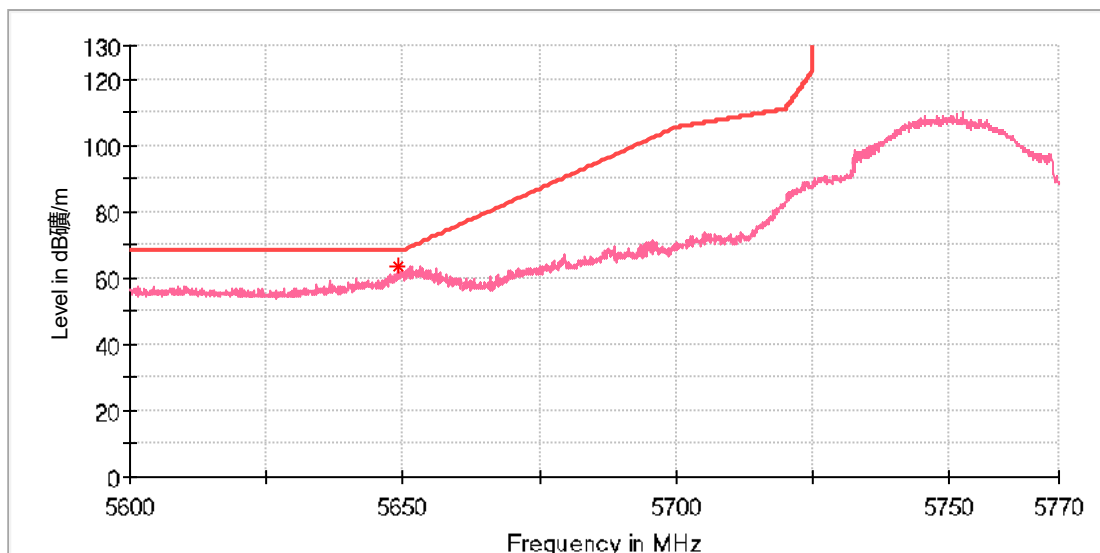
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5650.844445	60.09	68.83	8.74	150.0	H	206.0	15.3

Final_Result

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

EUT Information

EUT Name: Unmanned Aircraft
Model: FMAWZOD
Test Mode: 5.8G_40M_5750.48MHz
Order No/Sample No: 168585292/A004141367-002
Test Voltage:: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

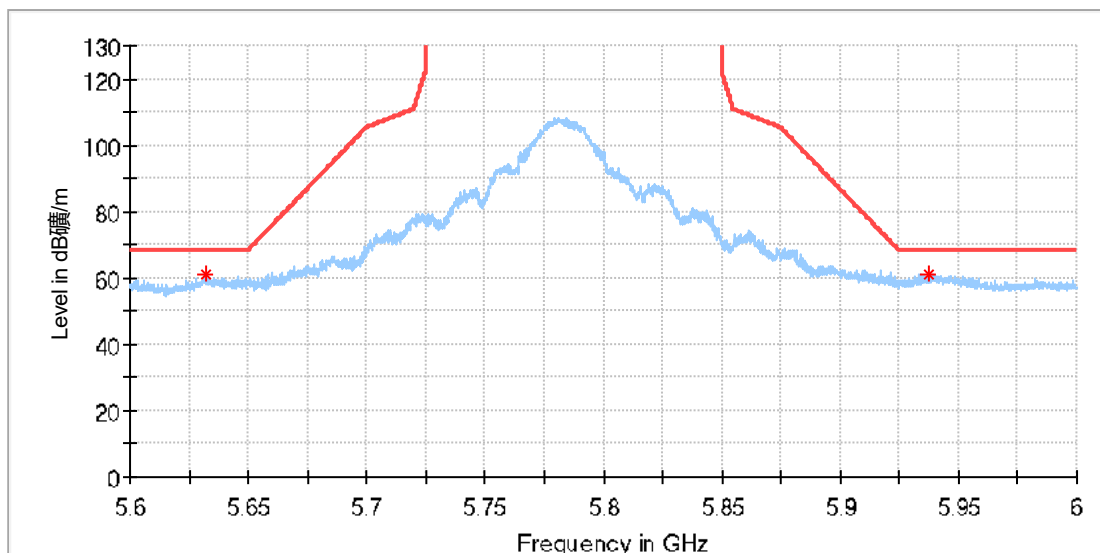
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5648.950000	63.38	68.20	4.82	150.0	V	11.0	15.3

Final_Result

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

EUT Information

EUT Name: Unmanned Aircraft
Model: FMAWZOD
Test Mode: 5.8G_40M_5782.48MHz
Order No/Sample No: 168585292/A004141367-002
Test Voltage:: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

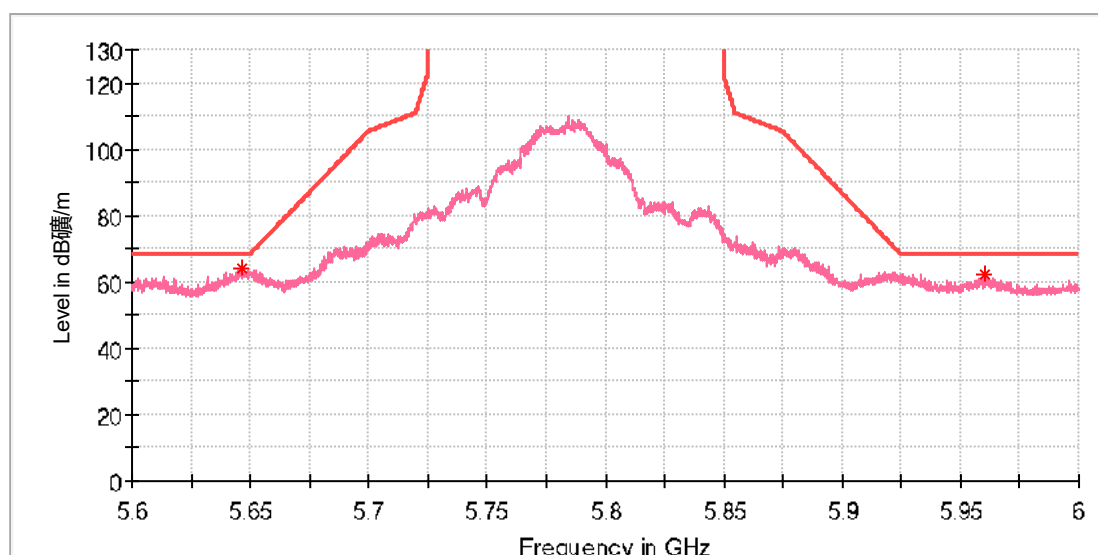
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5632.111111	61.10	68.20	7.10	150.0	H	23.0	15.3
5937.000000	61.36	68.20	6.84	150.0	H	46.0	16.2

Final_Result

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

EUT Information

EUT Name:	Unmanned Aircraft
Model:	FMAWZOD
Test Mode:	5.8G_40M_5782.48MHz
Order No/Sample No:	168585292/A004141367-002
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

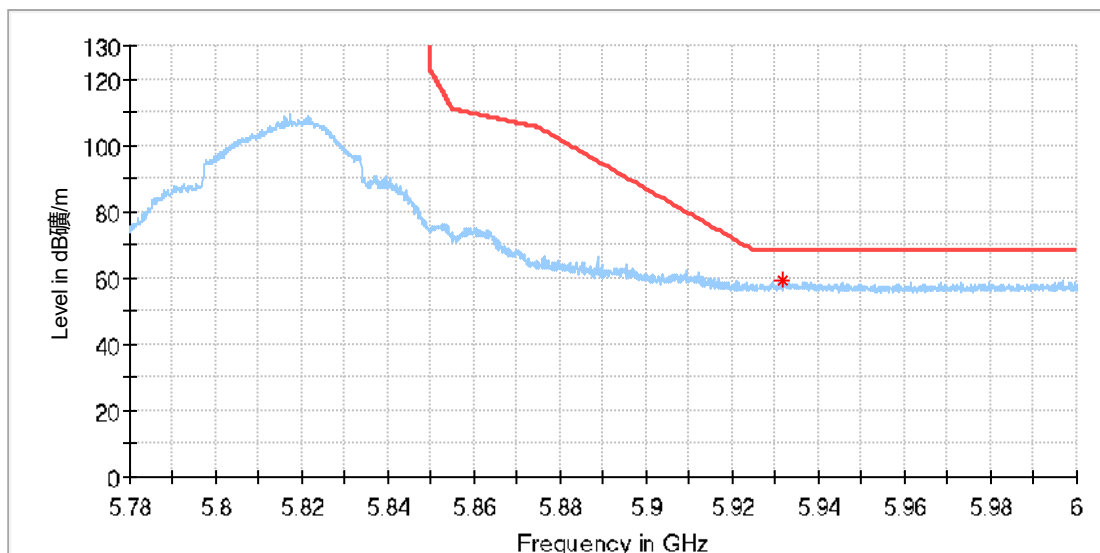
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5960.666667	62.54	68.20	5.66	150.0	V	5.0	16.3
5646.111111	64.38	68.20	3.82	150.0	V	34.0	15.3

Final_Result

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

EUT Information

EUT Name: Unmanned Aircraft
Model: FMAWZOD
Test Mode: 5.8G_40M_5815.48MHz
Order No/Sample No: 168585292/A004141367-002
Test Voltage:: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

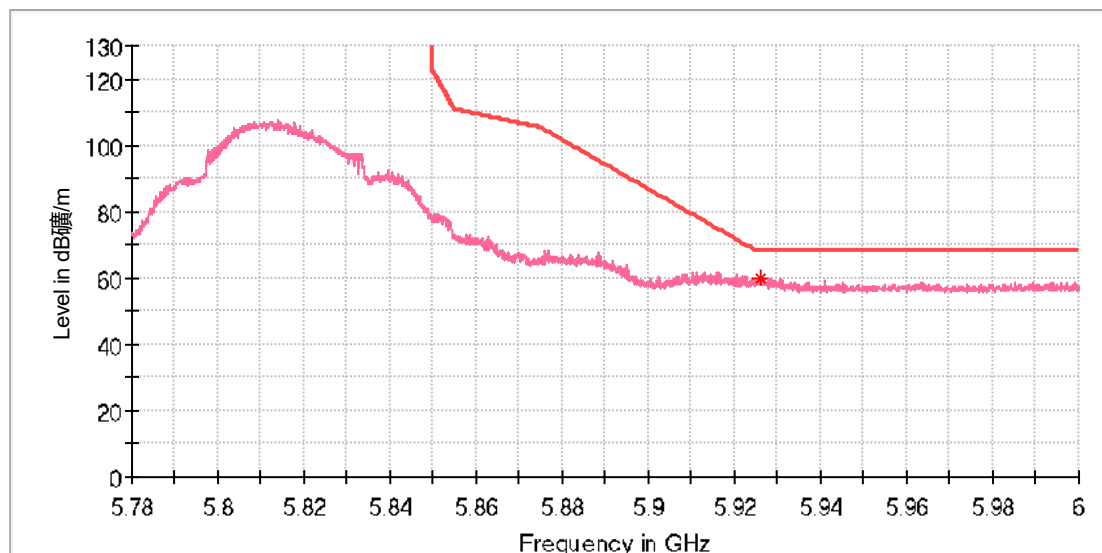
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5931.784722	59.23	68.20	8.97	150.0	H	27.0	16.2

Final_Result

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

EUT Information

EUT Name: Unmanned Aircraft
Model: FMAWZOD
Test Mode: 5.8G_40M_5815.48MHz
Order No/Sample No: 168585292/A004141367-002
Test Voltage:: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.407
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)
5926.208333	59.88	68.20	8.32	150.0	V	4.0	16.2

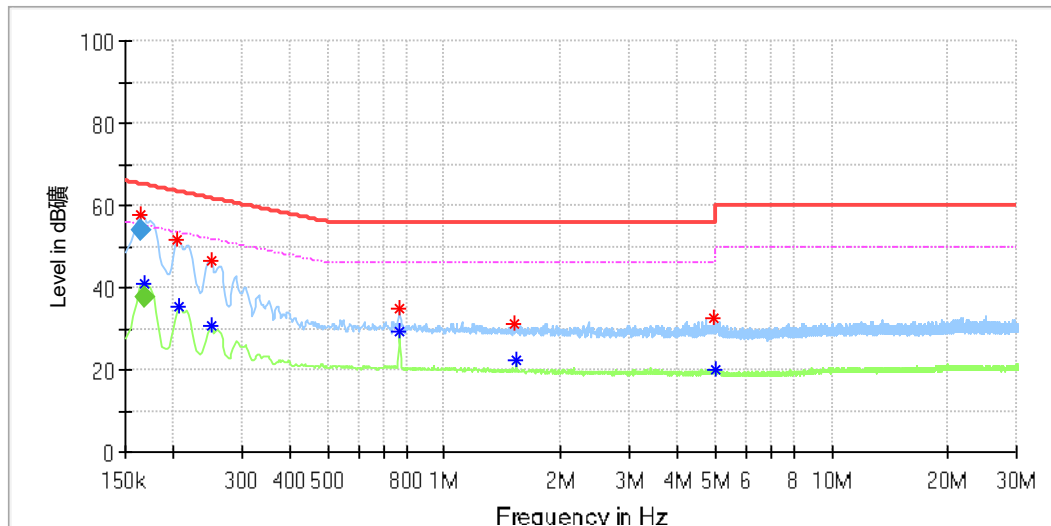
Final_Result

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

Appendix A.7: Test Results of AC conducted Emissions

EUT Information

EUT Name: Unmanned Aircraft
Order Number: 168571276(P02083872)
Model: FMAWZOD
Test Mode: Wireless Connecting
Test Voltage: AC 120V/ 60Hz
Test Standard: FCC Part 15
Test By:/Review By: Simon Feng / Murphy Chen
Tem./Hum./Pressure: 24.0°C/49.3%/101kPa
Remark: SR 2



Critical Freqs

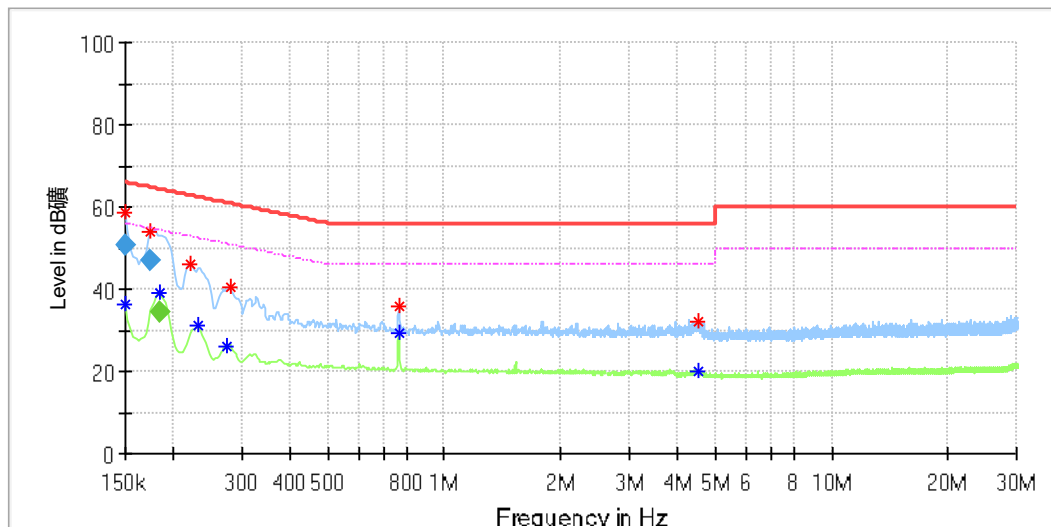
Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.165	57.5	---	65.21	7.67	L1	9.6
0.167	---	41.0	55.09	14.04	L1	9.6
0.205	51.6	---	63.42	11.81	L1	9.7
0.207	---	35.5	53.32	17.81	L1	9.7
0.250	---	30.7	51.77	21.07	L1	9.7
0.250	46.4	---	61.77	15.38	L1	9.7
0.764	---	29.3	46.00	16.67	L1	9.7
0.764	34.7	---	56.00	21.30	L1	9.7
1.523	31.0	---	56.00	24.98	L1	9.6
1.533	---	22.5	46.00	23.54	L1	9.6
4.971	32.4	---	56.00	23.64	L1	9.8
5.013	---	19.8	50.00	30.18	L1	9.8

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.165	54.1	---	65.21	11.14	1000.0	9.0	L1	9.6
0.167	---	37.7	55.09	17.38	1000.0	9.0	L1	9.6

EUT Information

EUT Name: Unmanned Aircraft
Order Number: 168571276(P02083872)
Model: FMAWZOD
Test Mode: Wireless Connecting
Test Voltage: AC 120V/ 60Hz
Test Standard: FCC Part 15
Test By./Review By: Simon Feng / Murphy Chen
Tem./Hum./Pressure: 24.0°C/49.3%/101kPa
Remark: SR 2



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.150	58.5	---	66.00	7.50	N	9.7
0.150	---	36.5	56.00	19.54	N	9.7
0.175	54.2	---	64.73	10.57	N	9.8
0.185	---	39.0	54.27	15.28	N	9.9
0.222	46.0	---	62.74	16.72	N	9.9
0.232	---	31.0	52.38	21.34	N	9.9
0.274	---	26.1	50.98	24.85	N	9.9
0.279	40.4	---	60.84	20.39	N	9.9
0.762	---	29.2	46.00	16.82	N	9.8
0.764	35.9	---	56.00	20.08	N	9.8
4.538	32.1	---	56.00	23.90	N	9.7
4.540	---	19.8	46.00	26.22	N	9.7

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.150	50.8	---	66.00	15.21	1000.0	9.0	N	9.7
0.175	46.8	---	64.73	17.97	1000.0	9.0	N	9.8
0.185	---	34.6	54.27	19.66	1000.0	9.0	N	9.9