

Appendix A: Test Results of 5.8G SDR

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

5.8G SDR, 1.4MHz BW

TestMode	Channel	Antenna	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
1.4M-MIMO	5728.5	Ant1	22.19	≤30.00	PASS
		Ant2	20.34	≤30.00	PASS
		Total	24.37	≤30.00	PASS
	5786.5	Ant1	22.04	≤30.00	PASS
		Ant2	20.56	≤30.00	PASS
		Total	24.37	≤30.00	PASS
	5846.5	Ant1	21.68	≤30.00	PASS
		Ant2	21.15	≤30.00	PASS
		Total	24.43	≤30.00	PASS

Note:

1. The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.



1.4M-MIMO_Ant2_5786.5



1.4M-MIMO_Ant1_5846.5



1.4M-MIMO_Ant2_5846.5



5.8G SDR, 1.4MHz BW CA mode

TestMode	Channel	Antenna	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
1.4MCA-MIMO	5730.12	Ant1	21.88	≤30.00	PASS
		Ant2	20.05	≤30.00	PASS
		Total	24.07	≤30.00	PASS
	5788.12	Ant1	21.93	≤30.00	PASS
		Ant2	20.52	≤30.00	PASS
		Total	24.29	≤30.00	PASS
	5848.12	Ant1	21.26	≤30.00	PASS
		Ant2	20.89	≤30.00	PASS
		Total	24.09	≤30.00	PASS

Note:

1. The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.

1.4MCA-MIMO Ant1 5730.12



1.4MCA-MIMO Ant2 5730.12



1.4MCA-MIMO Ant1 5788.12



1.4MCA-MIMO Ant2 5788.12



1.4MCA-MIMO Ant1 5848.12



1.4MCA-MIMO Ant2 5848.12



5.8G SDR, 3MHz BW

TestMode	Channel	Antenna	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
3M-MIMO	5727.5	Ant1	19.20	≤30.00	PASS
		Ant2	17.35	≤30.00	PASS
		Total	21.38	≤30.00	PASS
	5784.5	Ant1	19.29	≤30.00	PASS
		Ant2	18.01	≤30.00	PASS
		Total	21.71	≤30.00	PASS
	5844.5	Ant1	18.57	≤30.00	PASS
		Ant2	18.12	≤30.00	PASS
		Total	21.36	≤30.00	PASS

Note:

1. The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.

3M-MIMO_Ant1_5727.5



3M-MIMO_Ant2_5727.5



3M-MIMO_Ant1_5784.5



3M-MIMO_Ant2_5784.5



3M-MIMO_Ant1_5844.5



3M-MIMO_Ant2_5844.5



5.8G SDR, 3MHz BW CA mode

TestMode	Channel	Antenna	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
3MCA-MIMO	5730.2	Ant1	19.25	≤30.00	PASS
		Ant2	17.86	≤30.00	PASS
		Total	21.62	≤30.00	PASS
	5787.2	Ant1	19.28	≤30.00	PASS
		Ant2	17.78	≤30.00	PASS
		Total	21.60	≤30.00	PASS
	5847.2	Ant1	18.50	≤30.00	PASS
		Ant2	18.17	≤30.00	PASS
		Total	21.35	≤30.00	PASS

Note:

1. The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.

3MCA-MIMO_Ant1_5730.2



3MCA-MIMO_Ant2_5730.2



3MCA-MIMO_Ant1_5787.2



3MCA-MIMO_Ant2_5787.2



3MCA-MIMO_Ant1_5847.2



3MCA-MIMO_Ant2_5847.2



5.8G SDR, 10MHz BW

TestMode	Channel	Antenna	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
10M-MIMO	5730.2	Ant1	5.12	≤30.00	PASS
		Ant2	2.86	≤30.00	PASS
		Total	7.15	≤30.00	PASS
	5787.5	Ant1	2.55	≤30.00	PASS
		Ant2	1.23	≤30.00	PASS
		Total	4.95	≤30.00	PASS
	5844.5	Ant1	3.55	≤30.00	PASS
		Ant2	2.87	≤30.00	PASS
		Total	6.23	≤30.00	PASS

Note:

1. The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.

10M-MIMO Ant1 5730.5



10M-MIMO Ant2 5730.5



10M-MIMO Ant1 5787.5



10M-MIMO Ant2 5787.5



10M-MIMO Ant1 5844.5



10M-MIMO Ant2 5844.5



5.8G SDR, 20MHz BW

TestMode	Channel	Antenna	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
20M-MIMO	5735.5	Ant1	2.45	≤30.00	PASS
		Ant2	0.06	≤30.00	PASS
		Total	4.43	≤30.00	PASS
	5787.5	Ant1	1.36	≤30.00	PASS
		Ant2	-0.04	≤30.00	PASS
		Total	3.73	≤30.00	PASS
	5839.5	Ant1	0.90	≤30.00	PASS
		Ant2	0.15	≤30.00	PASS
		Total	3.55	≤30.00	PASS

Note:

1. The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.

20M-MIMO Ant1 5735.5



20M-MIMO Ant2 5735.5



20M-MIMO Ant1 5787.5



20M-MIMO Ant2 5787.5



20M-MIMO Ant1 5839.5



20M-MIMO Ant2 5839.5



5.8G SDR, 40MHz BW

TestMode	Channel	Antenna	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
40M-MIMO	5745.5	Ant1	-4.14	≤30.00	PASS
		Ant2	-2.68	≤30.00	PASS
		Total	-0.34	≤30.00	PASS
	5787.5	Ant1	-4.56	≤30.00	PASS
		Ant2	-4.84	≤30.00	PASS
		Total	-1.69	≤30.00	PASS
	5829.5	Ant1	-3.60	≤30.00	PASS
		Ant2	-3.86	≤30.00	PASS
		Total	-0.72	≤30.00	PASS

Note:

1. The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.

40M-MIMO Ant1 5745.5



40M-MIMO Ant2 5745.5



40M-MIMO Ant1 5787.5



40M-MIMO Ant2 5787.5



40M-MIMO Ant1 5829.5



40M-MIMO Ant2 5829.5



Appendix A.2: Test Results of Frequency Stability

TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
1.4M-MIMO	Ant1	5728.5	NV	NT	-7000.00	-1.221960	20	PASS
		5786.5	NV	NT	-7000.00	-1.209712	20	PASS
		5846.5	NV	NT	-7000.00	-1.197298	20	PASS
1.4MCA-MIMO	Ant1	5730.12	NV	NT	-7000.00	-1.221615	20	PASS
		5788.12	NV	NT	-7000.00	-1.209374	20	PASS
		5848.12	NV	NT	-7000.00	-1.196966	20	PASS
3M-MIMO	Ant1	5727.5	NV	NT	-7000.00	-1.222174	20	PASS
		5784.5	NV	NT	-7000.00	-1.210131	20	PASS
		5844.5	NV	NT	-7000.00	-1.197707	20	PASS
3MCA-MIMO	Ant1	5730.2	NV	NT	-7000.00	-1.221598	20	PASS
		5787.2	NV	NT	-7000.00	-1.209566	20	PASS
		5847.2	NV	NT	-6000.00	-1.026132	20	PASS
10M-MIMO	Ant1	5730.5	NV	NT	-7000.00	-1.221534	20	PASS
		5787.5	NV	NT	-7000.00	-1.209503	20	PASS
		5844.5	NV	NT	-7000.00	-1.197707	20	PASS
20M-MIMO	Ant1	5735.5	NV	NT	-7000.00	-1.220469	20	PASS
		5787.5	NV	NT	-7000.00	-1.209503	20	PASS
		5839.5	NV	NT	-7000.00	-1.198733	20	PASS
40M-MIMO	Ant1	5745.5	NV	NT	-7000.00	-1.218345	20	PASS
		5787.5	NV	NT	-6000.00	-1.036717	20	PASS
		5829.5	NV	NT	-6000.00	-1.029248	20	PASS

Appendix A.3: Test Results of 6dB Bandwidth

5.8G SDR, 1.4MHz BW

TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
1.4M-MIMO	Ant1	5728.5	1.078	5727.960	5729.038	0.5	PASS
		5786.5	1.100	5785.937	5787.038	0.5	PASS
		5846.5	1.100	5845.937	5847.038	0.5	PASS

1.4M-MIMO Ant1 5728.5



1.4M-MIMO Ant1 5786.5



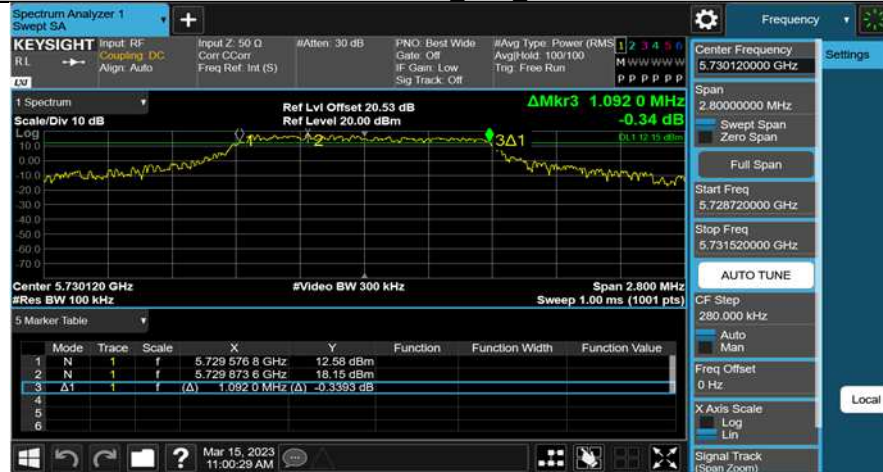
1.4M-MIMO Ant1 5846.5



5.8G SDR, 1.4MHz BW CA mode

TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
1.4MCA-MIMO	Ant1	5730.12	1.092	5729.577	5730.669	0.5	PASS
		5788.12	1.109	5787.563	5788.672	0.5	PASS
		5848.12	1.106	5847.552	5848.658	0.5	PASS

1.4MCA-MIMO Ant1 5730.12



1.4MCA-MIMO Ant1 5788.12



1.4MCA-MIMO Ant1 5848.12



5.8G SDR, 3MHz BW

TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
3M-MIMO	Ant1	5727.5	2.202	5726.396	5728.598	0.5	PASS
		5784.5	2.208	5783.396	5785.604	0.5	PASS
		5844.5	2.208	5843.396	5845.604	0.5	PASS

3M-MIMO Ant1 5727.5**3M-MIMO Ant1 5784.5****3M-MIMO Ant1 5844.5**

5.8G SDR, 3MHz BW CA mode

TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
3MCA-MIMO	Ant1	5730.2	2.190	5729.114	5731.304	0.5	PASS
		5787.2	2.214	5786.084	5788.298	0.5	PASS
		5847.2	2.202	5846.090	5848.292	0.5	PASS

3MCA-MIMO_Ant1_5730.2**3MCA-MIMO_Ant1_5787.2****3MCA-MIMO_Ant1_5847.2**

5.8G SDR, 10MHz BW

TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
10M-MIMO	Ant1	5730.5	9.000	5726.020	5735.020	0.5	PASS
		5787.5	9.020	5783.000	5792.020	0.5	PASS
		5844.5	9.000	5840.000	5849.000	0.5	PASS

10M-MIMO Ant1 5730.5



10M-MIMO Ant1 5787.5



10M-MIMO Ant1 5844.5



5.8G SDR, 20MHz BW

TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
20M-MIMO	Ant1	5735.5	17.920	5726.540	5744.460	0.5	PASS
		5787.5	17.960	5778.540	5796.500	0.5	PASS
		5839.5	17.880	5830.580	5848.460	0.5	PASS

20M-MIMO Ant1 5735.5**20M-MIMO Ant1 5787.5****20M-MIMO Ant1 5839.5**

5.8G SDR, 40MHz BW

TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
40M-MIMO	Ant1	5745.5	36.000	5727.500	5763.500	0.5	PASS
		5787.5	35.840	5769.580	5805.420	0.5	PASS
		5829.5	36.000	5811.500	5847.500	0.5	PASS

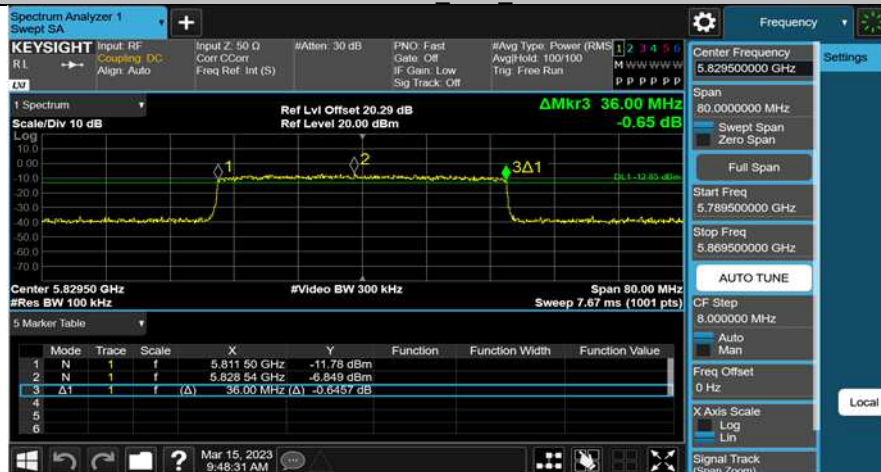
40M-MIMO Ant1 5745.5



40M-MIMO Ant1 5787.5



40M-MIMO Ant1 5829.5



Appendix A.4: Test Results of 99% Bandwidth

5.8G SDR, 1.4MHz BW

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
1.4M-MIMO	Ant1	5728.5	1.1637	5727.9039	5729.0676	---	PASS
		5786.5	1.1668	5785.9028	5787.0696	---	PASS
		5846.5	1.1592	5845.9034	5847.0626	---	PASS

1.4M-MIMO Ant1 5728.5



1.4M-MIMO Ant1 5786.5



1.4M-MIMO Ant1 5846.5



5.8G SDR, 1.4MHz BW CA mode

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
1.4MCA-MIMO	Ant1	5730.12	1.1487	5729.5321	5730.6808	---	PASS
		5788.12	1.1550	5787.5305	5788.6855	---	PASS
		5848.12	1.1632	5847.5250	5848.6882	---	PASS

1.4MCA-MIMO_Ant1_5730.12



1.4MCA-MIMO_Ant1_5788.12



1.4MCA-MIMO_Ant1_5848.12



5.8G SDR, 3MHz BW

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
3M-MIMO	Ant1	5727.5	2.2185	5726.3785	5728.5970	---	PASS
		5784.5	2.2670	5783.3722	5785.6392	---	PASS
		5844.5	2.2685	5843.3686	5845.6371	---	PASS

3M-MIMO_Ant1_5727.5



3M-MIMO_Ant1_5784.5



3M-MIMO_Ant1_5844.5



5.8G SDR, 3MHz BW CA mode

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
3MCA-MIMO	Ant1	5730.2	2.2574	5729.0617	5731.3191	---	PASS
		5787.2	2.2952	5786.0625	5788.3577	---	PASS
		5847.2	2.2893	5846.0656	5848.3549	---	PASS

3MCA-MIMO_Ant1_5730.2



3MCA-MIMO_Ant1_5787.2



3MCA-MIMO_Ant1_5847.2



5.8G SDR, 10MHz BW

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
10M-MIMO	Ant1	5730.5	9.0716	5725.9722	5735.0438	---	PASS
		5787.5	9.0323	5782.9868	5792.0191	---	PASS
		5844.5	9.0414	5839.9843	5849.0257	---	PASS

10M-MIMO Ant1 5730.5



10M-MIMO Ant1 5787.5



10M-MIMO Ant1 5844.5



5.8G SDR, 20MHz BW

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
20M-MIMO	Ant1	5735.5	17.983	5726.5201	5744.5031	---	PASS
		5787.5	17.845	5778.6005	5796.4455	---	PASS
		5839.5	17.825	5830.5787	5848.4037	---	PASS

20M-MIMO Ant1 5735.5



20M-MIMO Ant1 5787.5



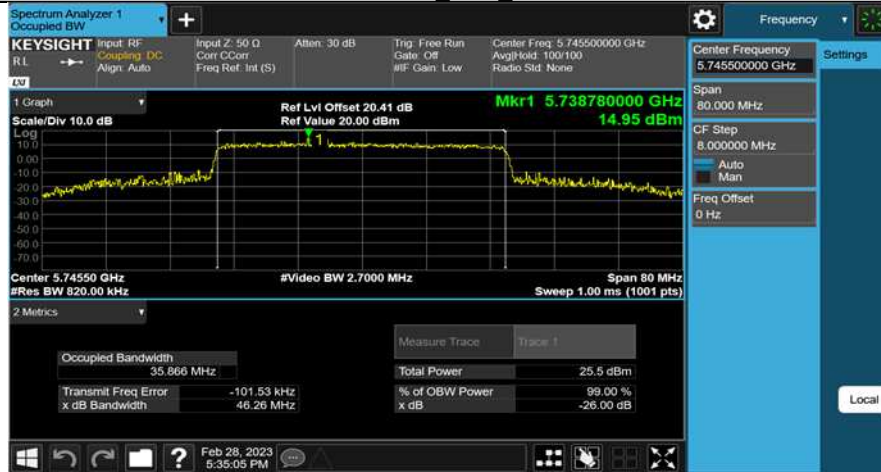
20M-MIMO Ant1 5839.5



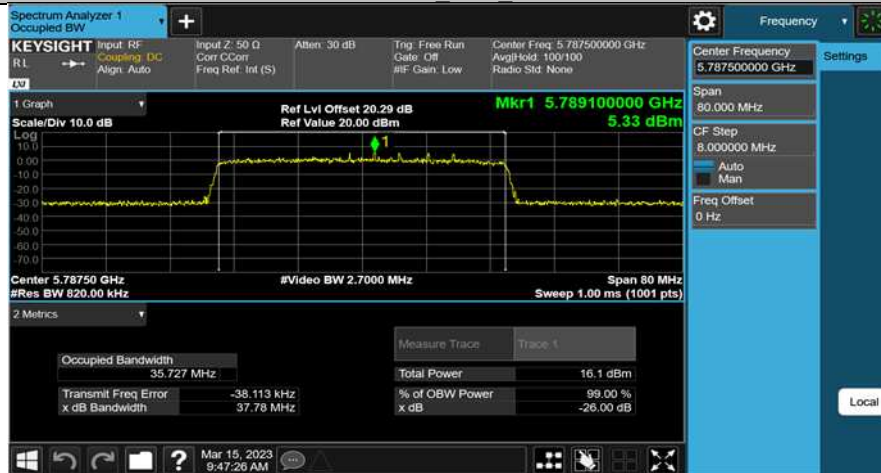
5.8G SDR, 40MHz BW

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
40M-MIMO	Ant1	5745.5	35.866	5727.4655	5763.3315	---	PASS
		5787.5	35.727	5769.5984	5805.3254	---	PASS
		5829.5	35.725	5811.6036	5847.3286	---	PASS

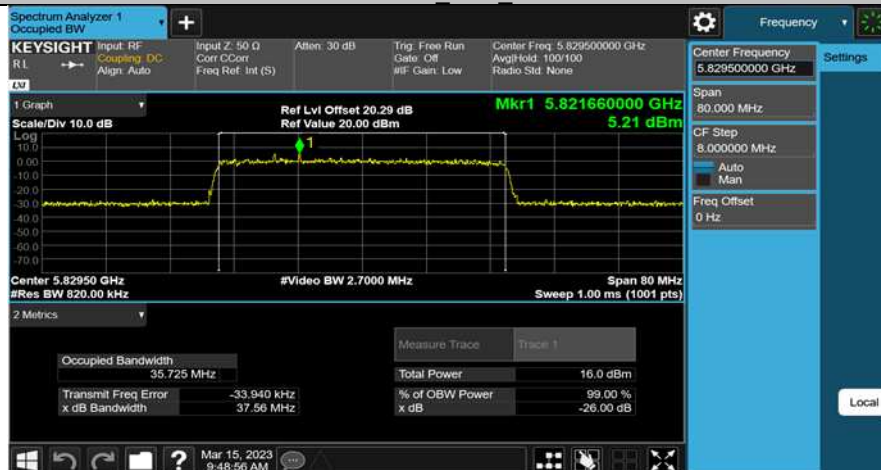
40M-MIMO Ant1 5745.5



40M-MIMO Ant1 5787.5



40M-MIMO Ant1 5829.5



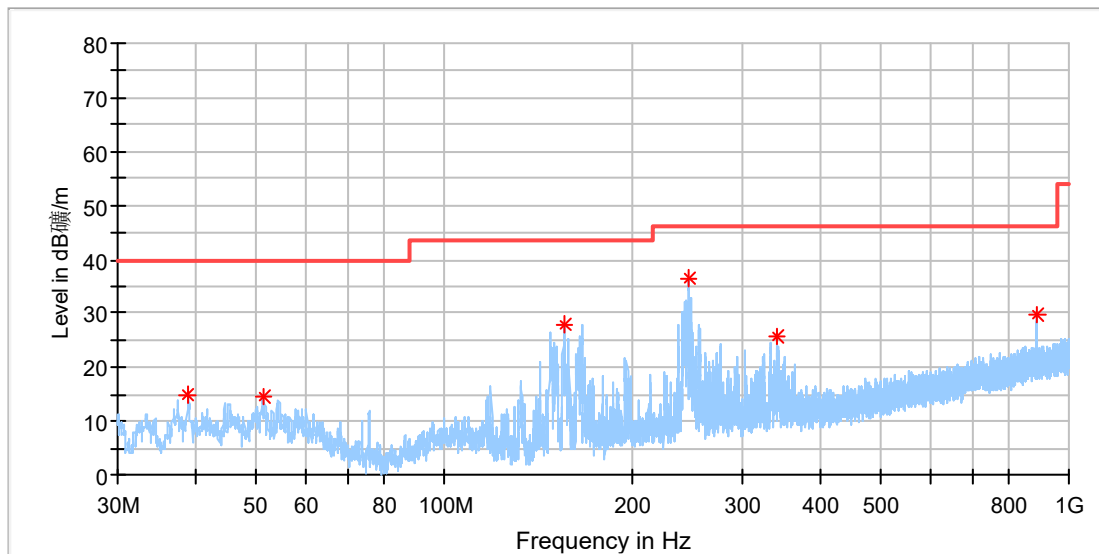
Appendix A.5: Test Results of Radiated Spurious Emissions

Note:1, Testing is carried out with frequency rang 9kHz to the tenth harmonics.
2, The margin is greater than 20 dB are not shown in this Appendix.

30MHz - 1GHz (Worst case)

EUT Information

EUT Name:	DJI Video Receiver
Model:	RX3
Test Mode:	SDR 5.8G_1.4M_5786.5MHz
Order No/Sample No:	168414963/A003418528-006
Test Voltage:	Full battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

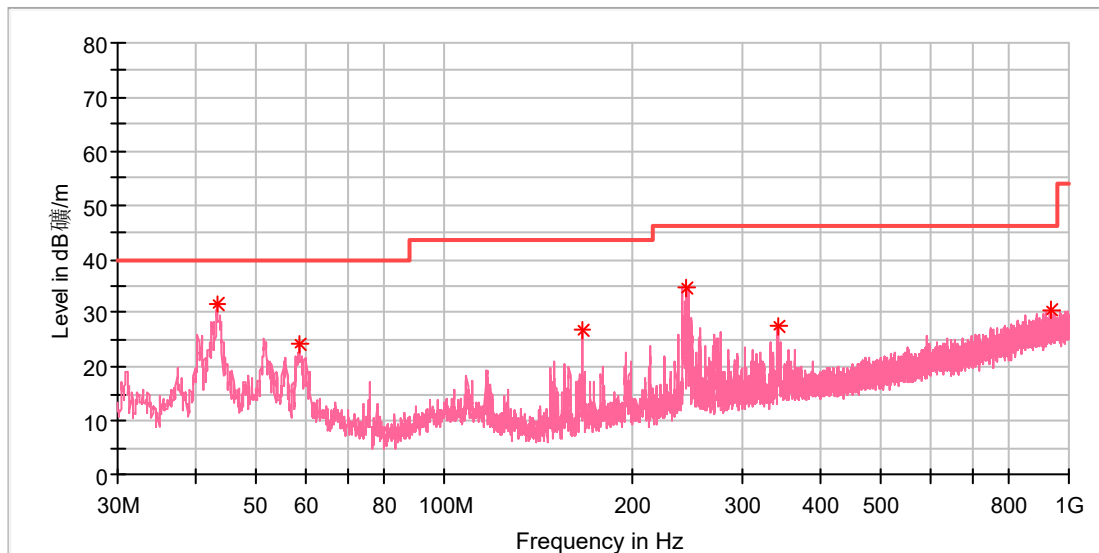
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
38.879231	15.01	40.00	24.99	100.0	H	345.0	-20.8
51.302692	14.69	40.00	25.31	100.0	H	47.0	-18.6
155.204615	28.07	43.50	15.43	100.0	H	280.0	-22.3
245.377308	36.28	46.00	9.72	100.0	H	138.0	-17.8
340.437308	25.75	46.00	20.25	100.0	H	0.0	-15.4
890.688462	29.83	46.00	16.17	100.0	H	0.0	-5.5

Final_Result

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

EUT Name: DJI Video Receiver
Model: RX3
Test Mode: SDR 5.8G_1.4M_5786.5MHz
Order No/Sample No: 168414963/A003418528-006
Test Voltage: Full battery
Remark: Temp 22 Humi:55%
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)
43.289000	31.78	40.00	8.22	100.0	V	240.0	-19.2
58.809000	24.24	40.00	15.76	100.0	V	78.0	-18.8
166.236500	26.91	43.50	16.59	100.0	V	0.0	-21.4
243.594000	34.78	46.00	11.22	100.0	V	240.0	-17.6
342.146000	27.39	46.00	18.61	100.0	V	234.0	-14.9
932.342500	30.49	46.00	15.51	100.0	V	119.0	-4.6

Final_Result

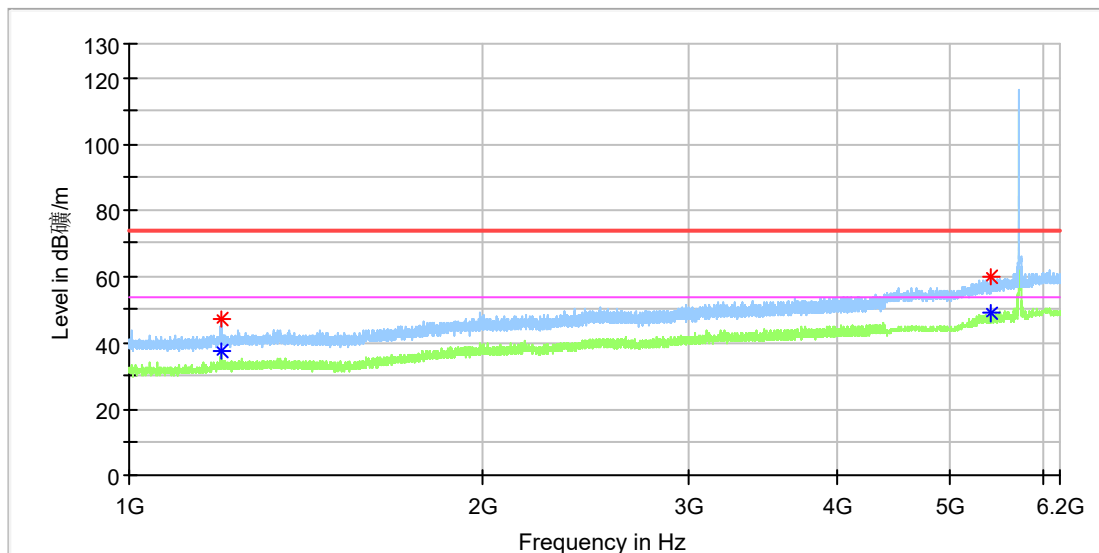
Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

1GHz - 18GHz

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

EUT Information

EUT Name:	DJI Video Receiver
Model:	RX3
Test Mode:	SDR 5.8G_1.4M_5728.5MHz
Order No/Sample No:	168414963/A003418528-006
Test Voltage:	Full battery
Remark:	Temp 22 Humi:55%
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)
1197.880000	---	37.36	54.00	16.64	150.0	H	258.0	1.1
1197.880000	47.21	---	74.00	26.79	150.0	H	258.0	1.1
5433.500000	59.66	---	74.00	14.34	150.0	H	239.0	13.5
5433.500000	---	48.81	54.00	5.19	150.0	H	239.0	13.5

Final_Result

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