

## 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 Ant1 5728.5



1.4M-MIMO Ant2 5728.5



1.4M-MIMO Ant1 5786.5





**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.







**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.





**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







**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

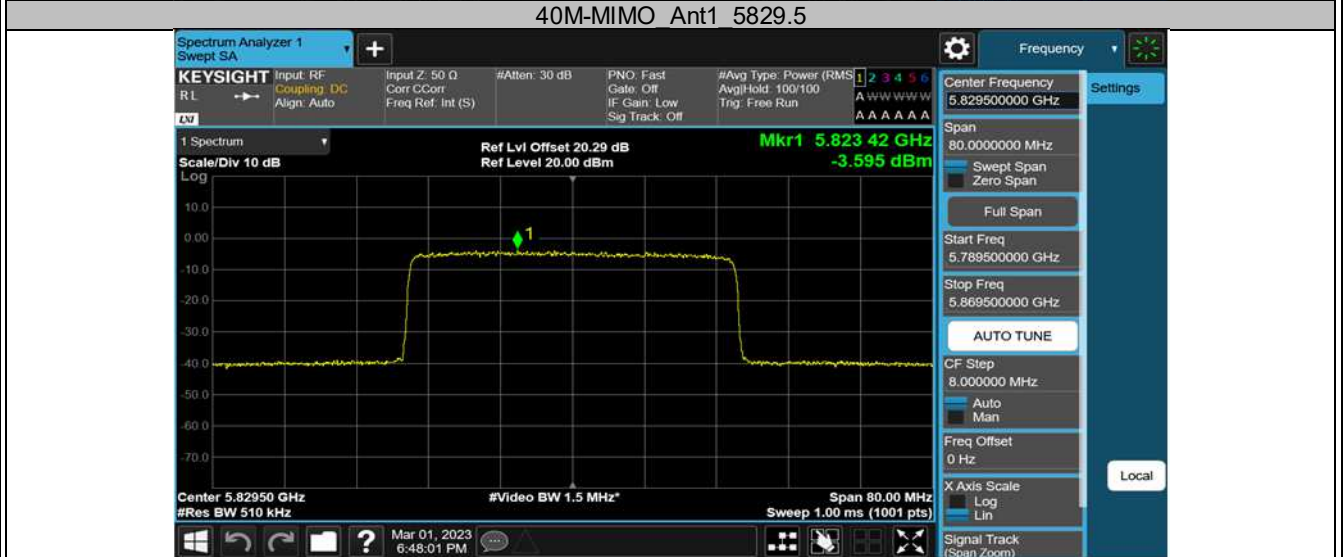
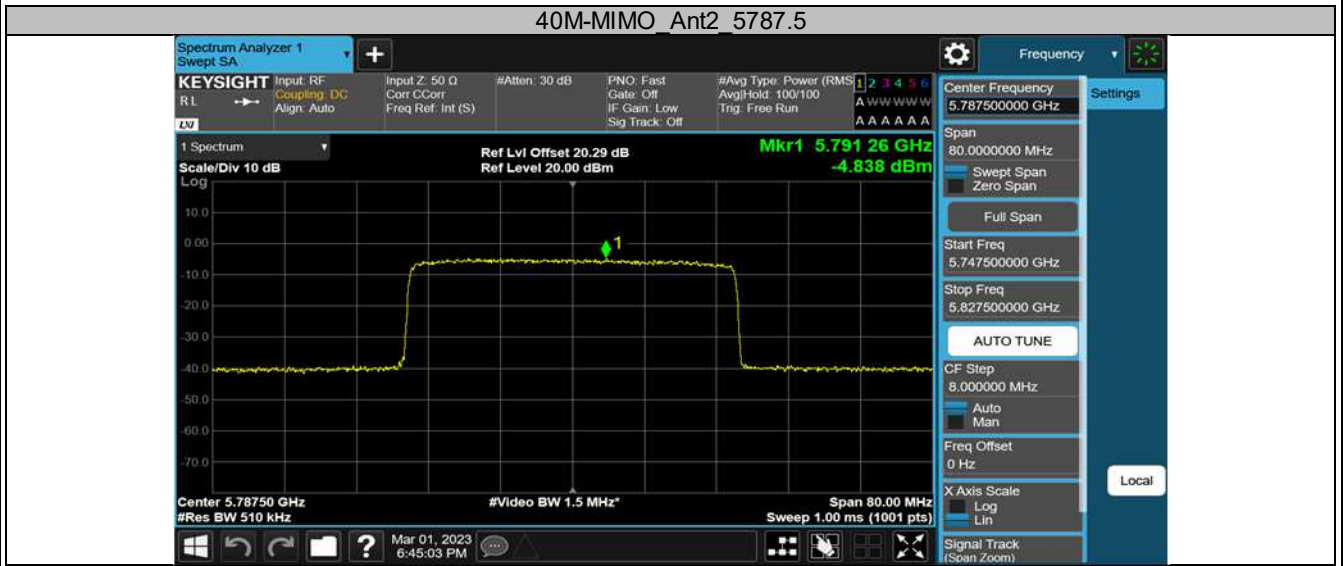


40M-MIMO Ant2 5745.5



40M-MIMO Ant1 5787.5





### 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





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



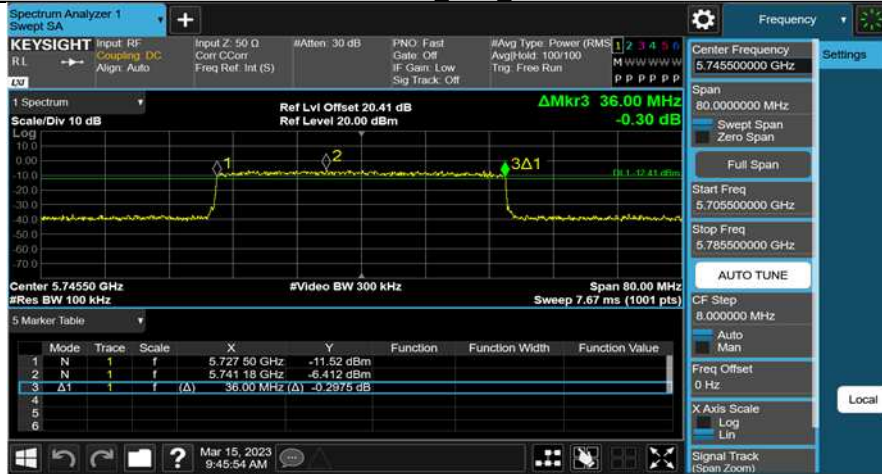
20M-MIMO Ant1 5839.5



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

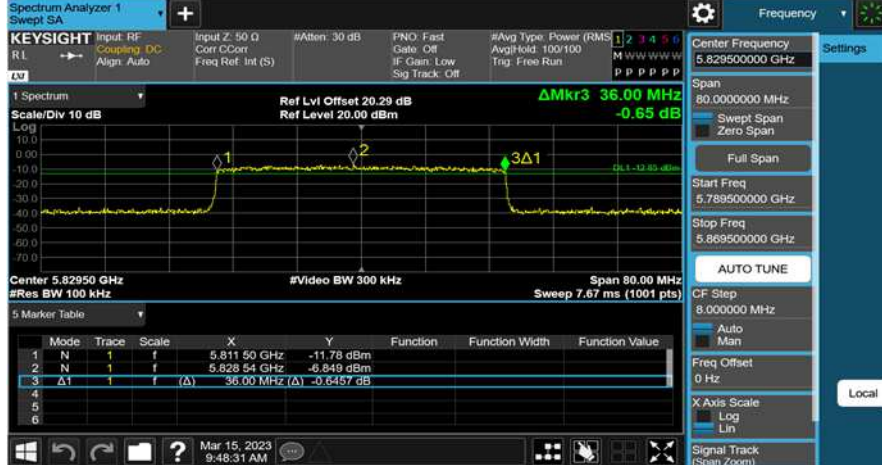
40M-MIMO Ant1 5745.5



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



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



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



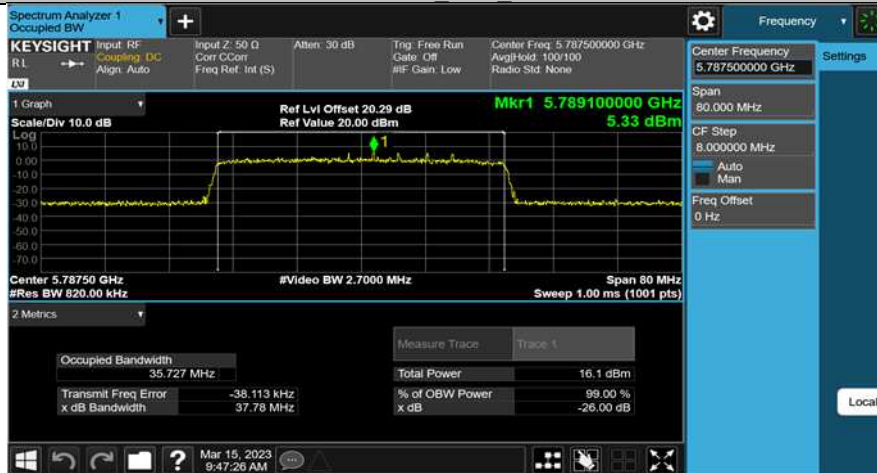
5.8G SDR, 40MHz BW

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



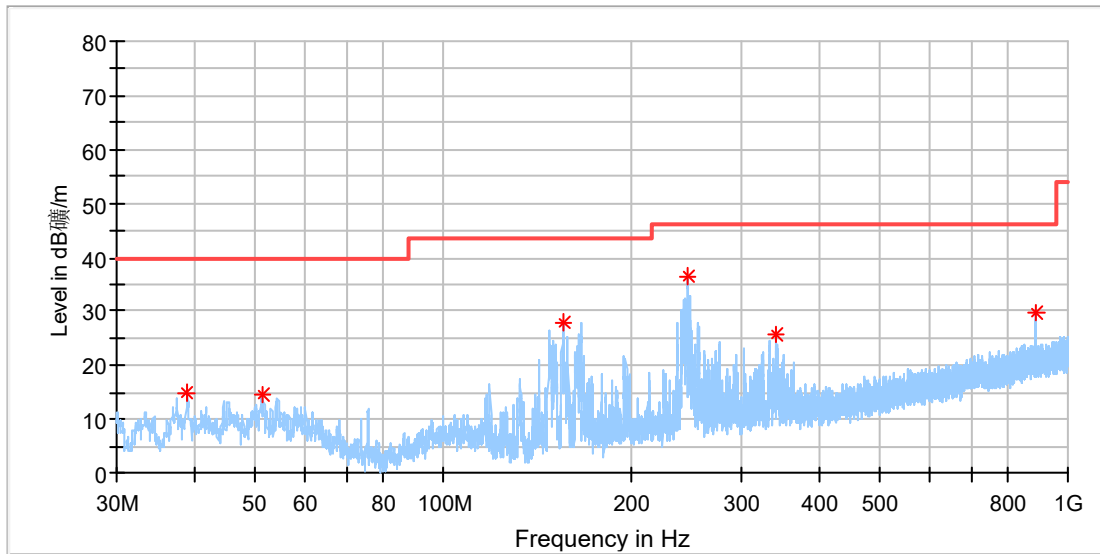
### Appendix A.5: Test Results of Radiated Spurious Emissions

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

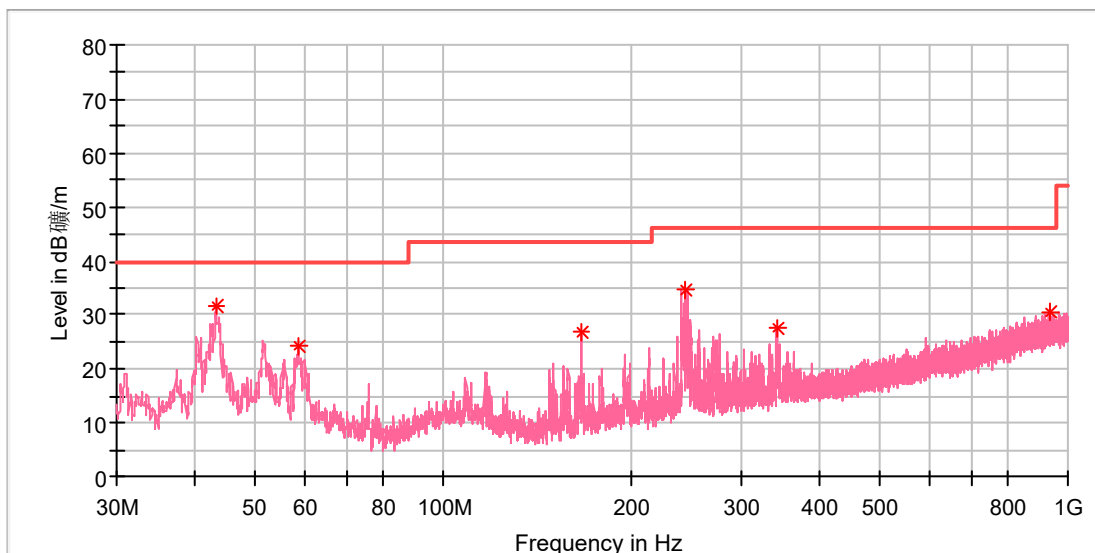
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
38.879231	15.01	40.00	24.99	100.0	H	345.0	-20.8
51.302692	14.69	40.00	25.31	100.0	H	47.0	-18.6
155.204615	28.07	43.50	15.43	100.0	H	280.0	-22.3
245.377308	36.28	46.00	9.72	100.0	H	138.0	-17.8
340.437308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

### 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

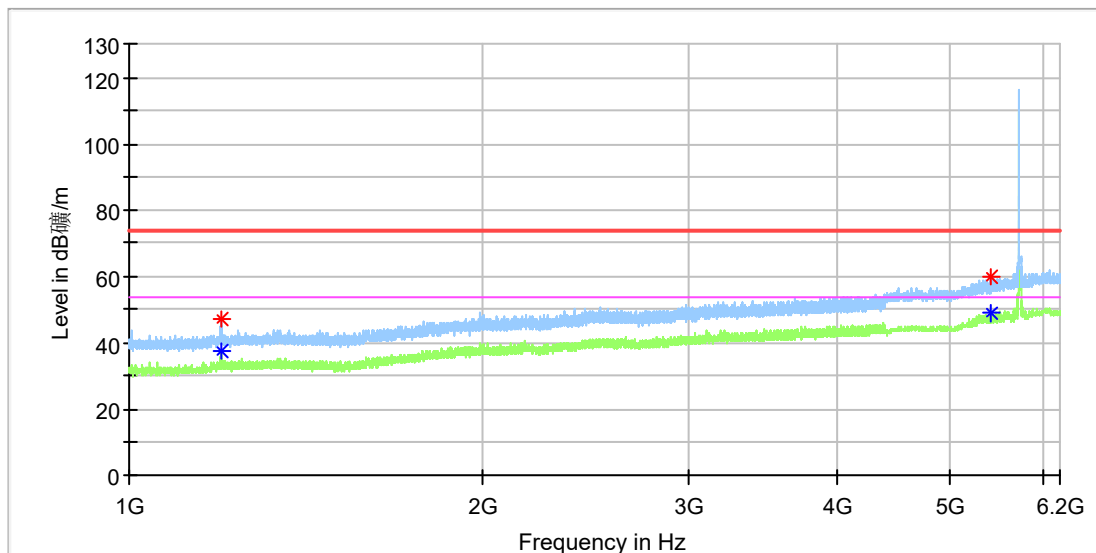
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

**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)
---	---	---	---	---		---	---