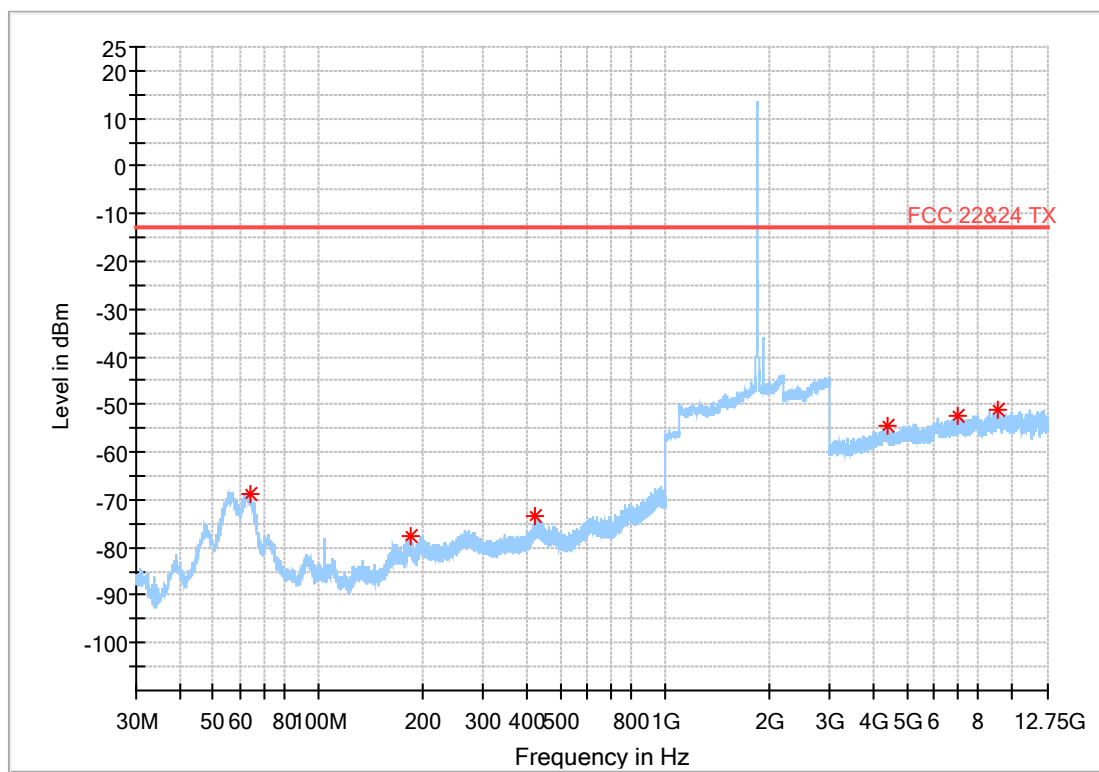


7.1.1.1.2 LCH -Horizontal

Full Spectrum



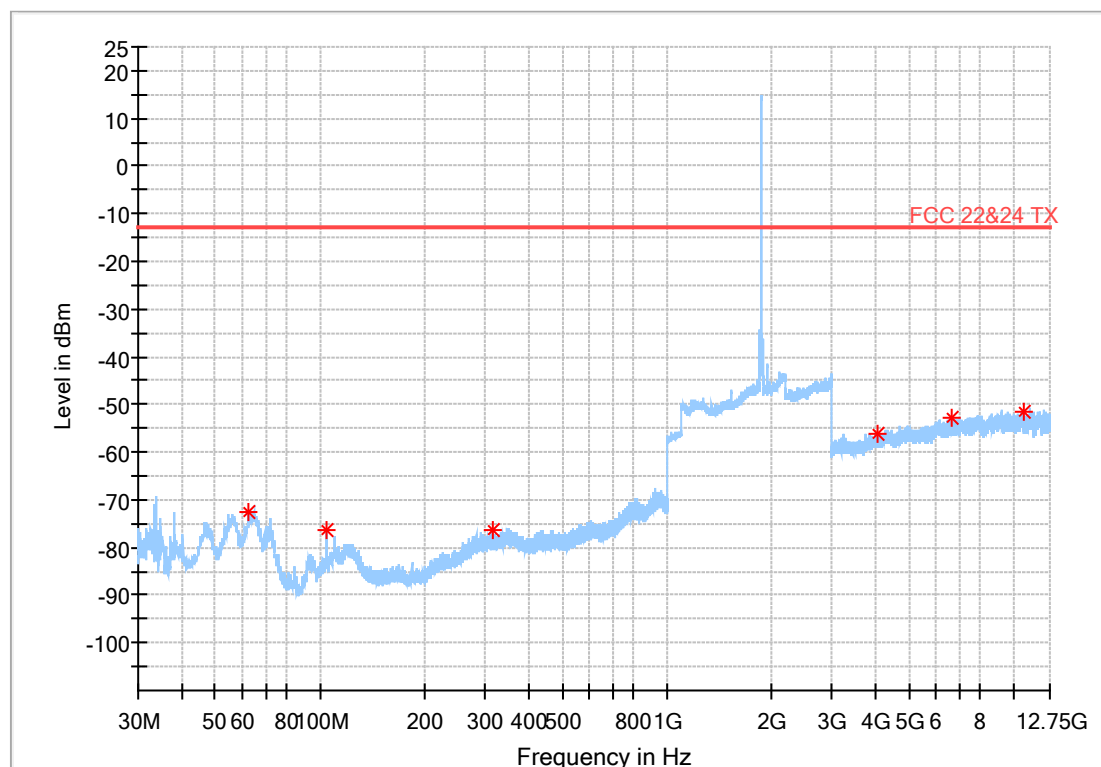
Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
64.150000	-68.76	-13.00	55.76	---	---	200.0	H	358.0	-96.9
186.800000	-77.48	-13.00	64.48	---	---	200.0	H	33.0	-106.6
421.000000	-73.34	-13.00	60.34	---	---	200.0	H	56.0	-101.4
4420.575000	-54.65	-13.00	41.65	---	---	200.0	H	211.0	-102.7
6965.975000	-52.55	-13.00	39.55	---	---	200.0	H	0.0	-99.3
9191.900000	-51.16	-13.00	38.16	---	---	200.0	H	0.0	-96.9



7.1.1.1.3 MCH-Vertical

Full Spectrum



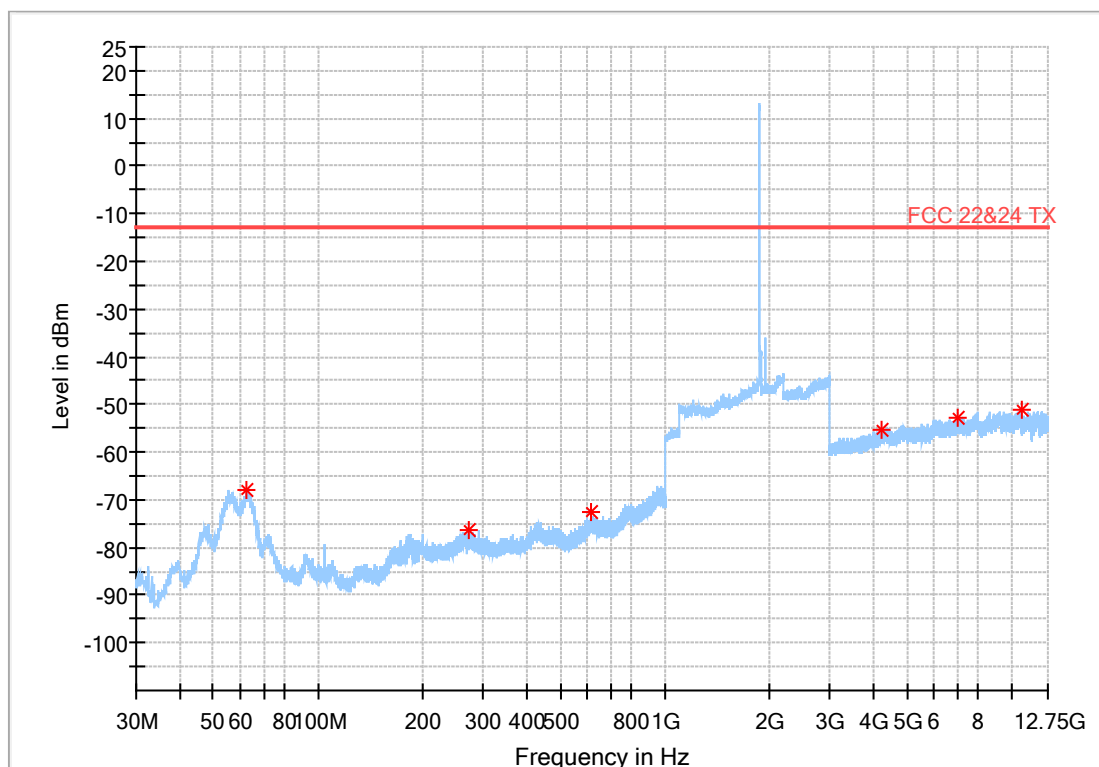
Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.650000	-72.71	-13.00	59.71	---	---	200.0	V	263.0	-100.3
104.200000	-76.49	-13.00	63.49	---	---	200.0	V	287.0	-106.8
317.750000	-76.25	-13.00	63.25	---	---	200.0	V	193.0	-102.0
4062.750000	-56.21	-13.00	43.21	---	---	200.0	V	0.0	-103.5
6655.275000	-52.83	-13.00	39.83	---	---	200.0	V	2.0	-99.2
10657.650000	-51.43	-13.00	38.43	---	---	200.0	V	0.0	-96.2



7.1.1.1.4 MCH -Horizontal

Full Spectrum



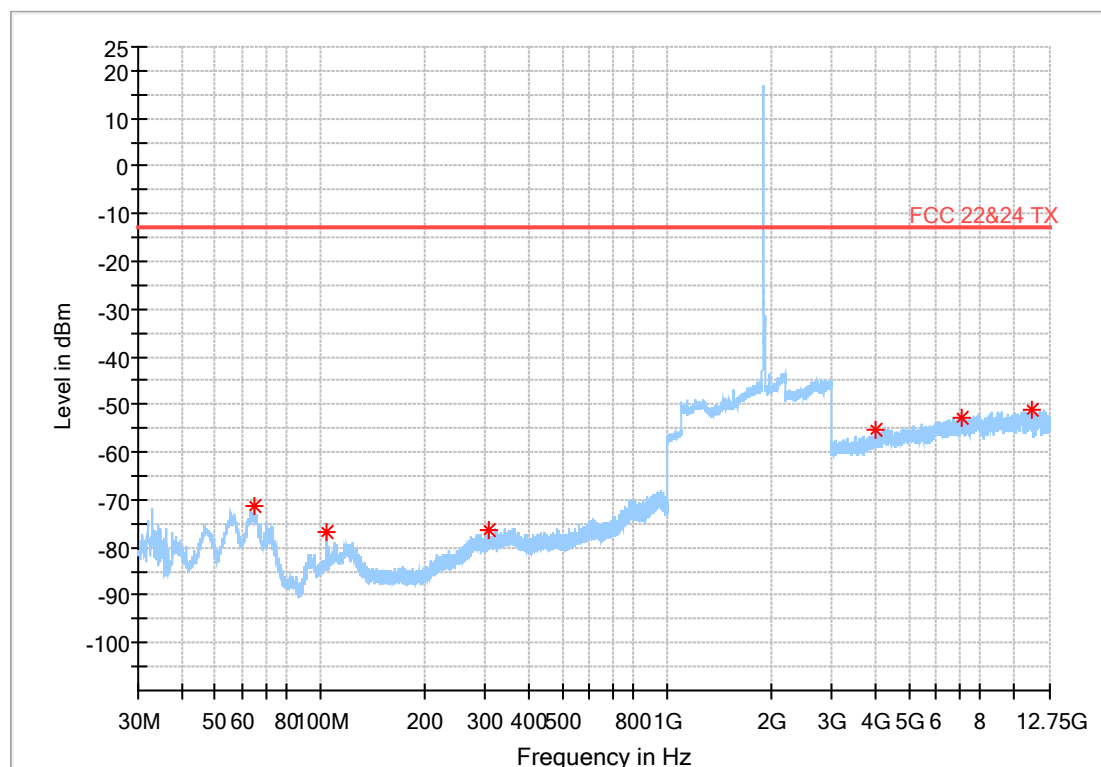
Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.200000	-67.92	-13.00	54.92	---	---	200.0	H	359.0	-95.0
272.750000	-76.23	-13.00	63.23	---	---	200.0	H	359.0	-102.4
611.333333	-72.42	-13.00	59.42	---	---	200.0	H	0.0	-98.2
4224.925000	-55.16	-13.00	42.16	---	---	200.0	H	0.0	-103.1
7043.000000	-52.85	-13.00	39.85	---	---	200.0	H	210.0	-99.0
10665.775000	-51.16	-13.00	38.16	---	---	200.0	H	0.0	-96.3



7.1.1.1.5 HCH-Vertical

Full Spectrum



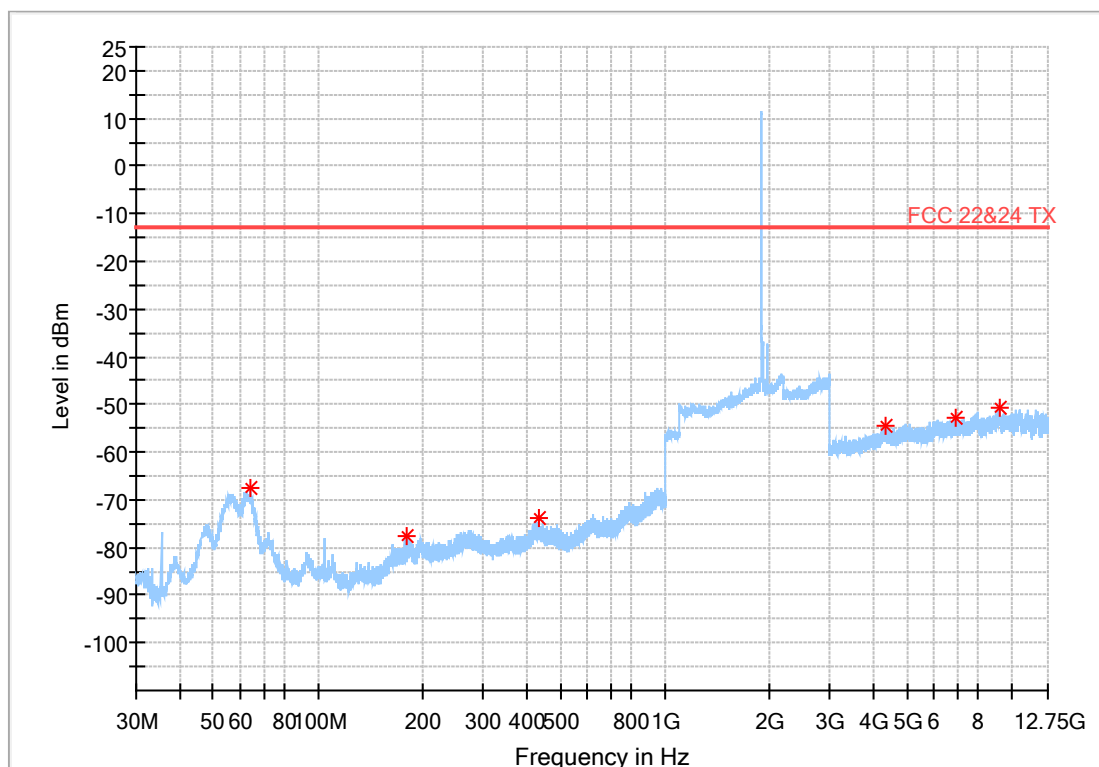
Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
64.950000	-71.18	-13.00	58.18	---	---	200.0	V	334.0	-99.8
104.200000	-76.58	-13.00	63.58	---	---	200.0	V	194.0	-106.8
306.300000	-76.15	-13.00	63.15	---	---	200.0	V	123.0	-102.2
4027.325000	-55.41	-13.00	42.41	---	---	200.0	V	0.0	-103.5
7076.800000	-52.98	-13.00	39.98	---	---	200.0	V	211.0	-98.9
11376.225000	-50.99	-13.00	37.99	---	---	200.0	V	0.0	-95.9



7.1.1.1.6 HCH -Horizontal

Full Spectrum



Critical_Freqs

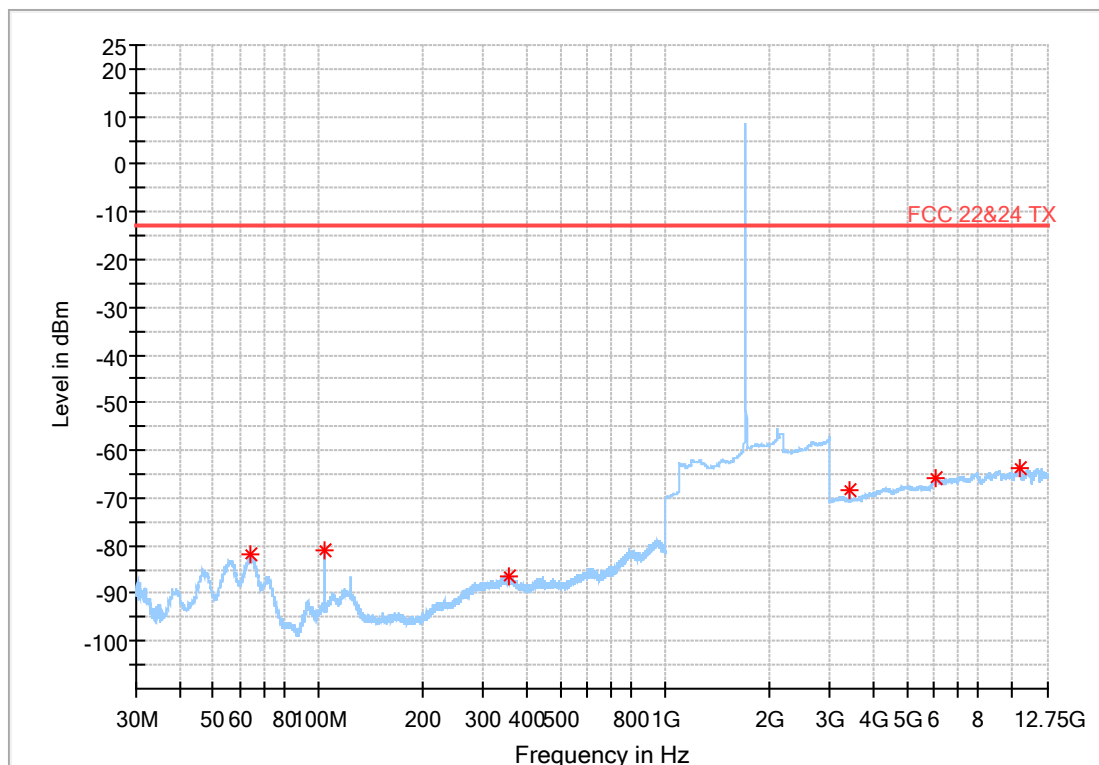
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
63.700000	-67.39	-13.00	54.39	---	---	200.0	H	359.0	-96.4
180.300000	-77.41	-13.00	64.41	---	---	200.0	H	0.0	-107.1
432.250000	-73.97	-13.00	60.97	---	---	200.0	H	81.0	-101.7
4365.000000	-54.57	-13.00	41.57	---	---	200.0	H	0.0	-102.8
6922.425000	-52.80	-13.00	39.80	---	---	200.0	H	0.0	-99.3
9288.750000	-50.53	-13.00	37.53	---	---	200.0	H	0.0	-96.8



7.1.1.2 Test Band = WCDMA BAND IV

7.1.1.2.1 LCH-Vertical

Full Spectrum



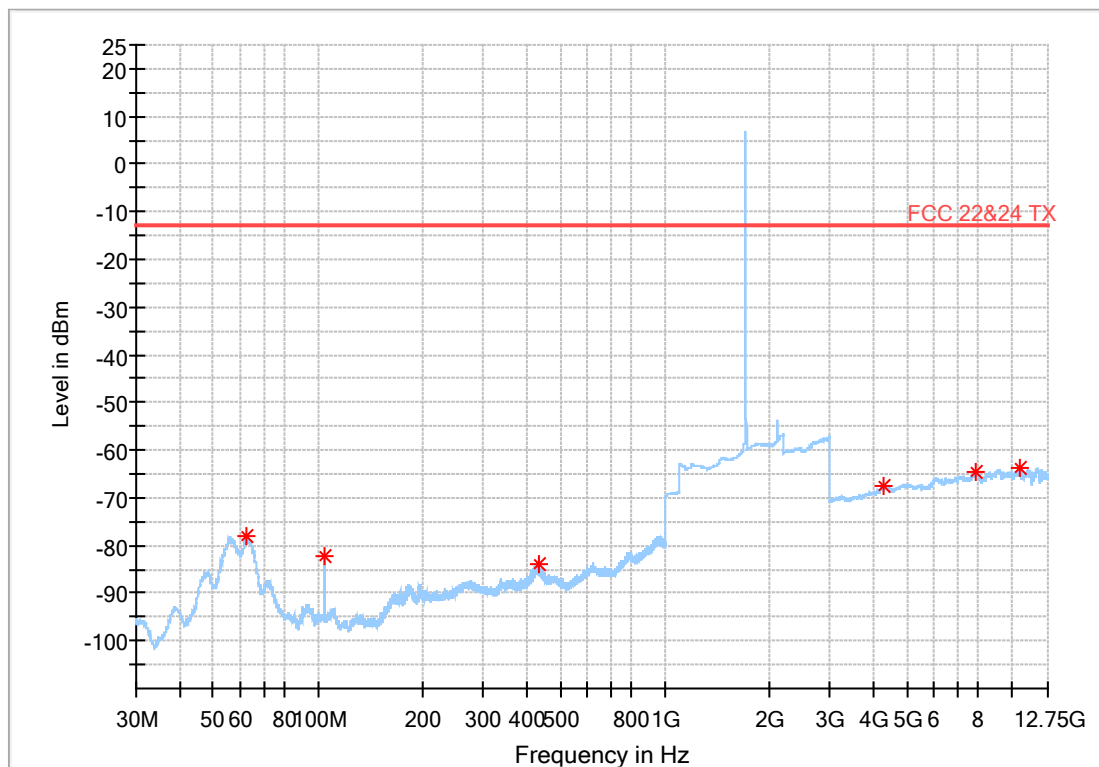
Critical_Freqs

Frequency (MHz)	Average (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
64.400000	-82.02	-13.00	69.02	---	---	200.0	V	125.0	-99.9
104.250000	-80.78	-13.00	67.78	---	---	200.0	V	335.0	-106.8
357.250000	-86.32	-13.00	73.32	---	---	200.0	V	287.0	-101.3
3422.500000	-68.31	-13.00	55.31	---	---	200.0	V	0.0	-105.5
6051.750000	-65.86	-13.00	52.86	---	---	200.0	V	1.0	-99.8
10619.300000	-63.74	-13.00	50.74	---	---	200.0	V	1.0	-96.3



7.1.1.2.2 LCH -Horizontal

Full Spectrum



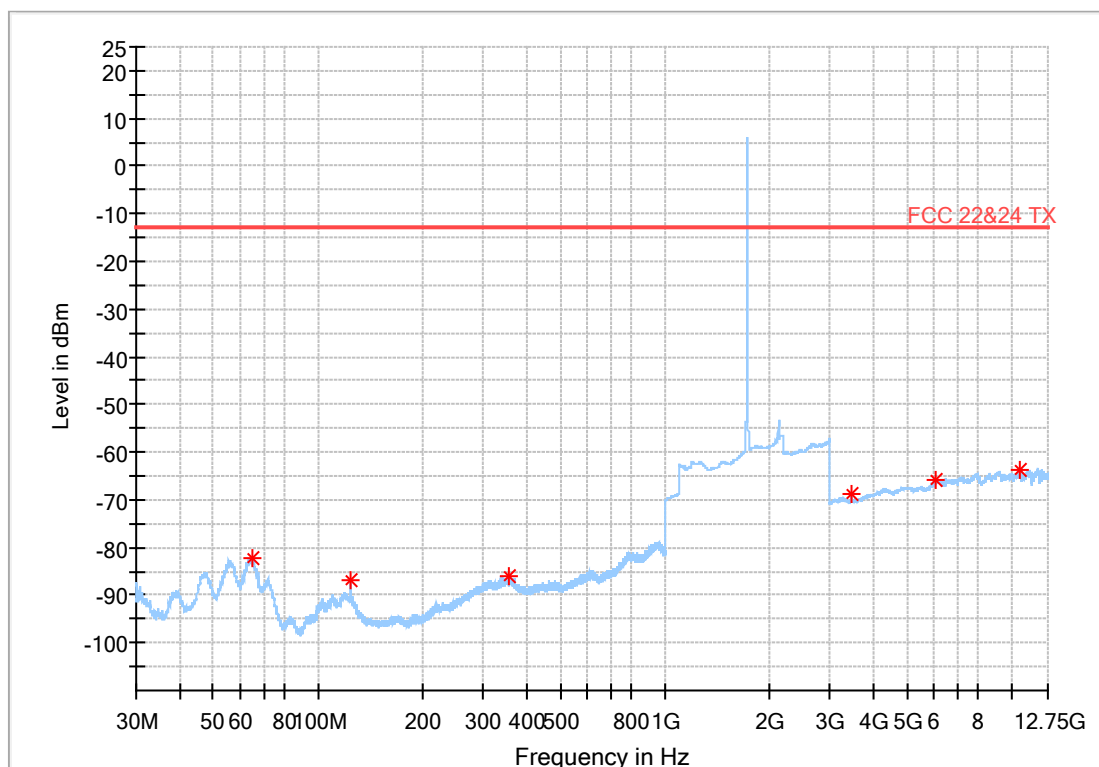
Critical_Freqs

Frequency (MHz)	Average (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.200000	-77.83	-13.00	64.83	---	---	200.0	H	6.0	-95.0
104.300000	-82.13	-13.00	69.13	---	---	200.0	H	53.0	-109.6
432.000000	-83.88	-13.00	70.88	---	---	200.0	H	76.0	-101.7
4305.200000	-67.47	-13.00	54.47	---	---	200.0	H	0.0	-102.6
7942.925000	-64.55	-13.00	51.55	---	---	200.0	H	211.0	-98.0
10635.550000	-63.73	-13.00	50.73	---	---	200.0	H	1.0	-96.4



7.1.1.2.3 MCH-Vertical

Full Spectrum



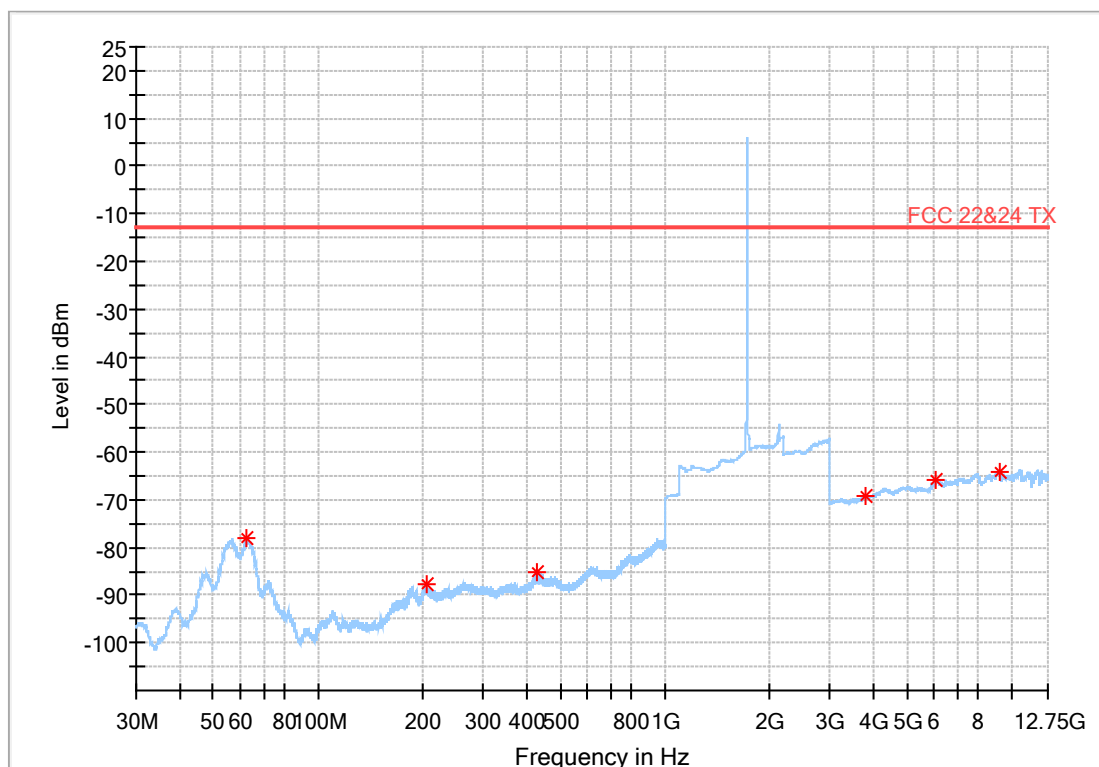
Critical_Freqs

Frequency (MHz)	Average (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
64.950000	-82.16	-13.00	69.16	---	---	200.0	V	148.0	-99.8
125.000000	-87.04	-13.00	74.04	---	---	200.0	V	0.0	-103.8
354.150000	-86.12	-13.00	73.12	---	---	200.0	V	359.0	-101.4
3463.125000	-68.70	-13.00	55.70	---	---	200.0	V	211.0	-105.4
6043.950000	-65.87	-13.00	52.87	---	---	200.0	V	1.0	-99.8
10635.550000	-63.57	-13.00	50.57	---	---	200.0	V	1.0	-96.3



7.1.1.2.4 MCH -Horizontal

Full Spectrum



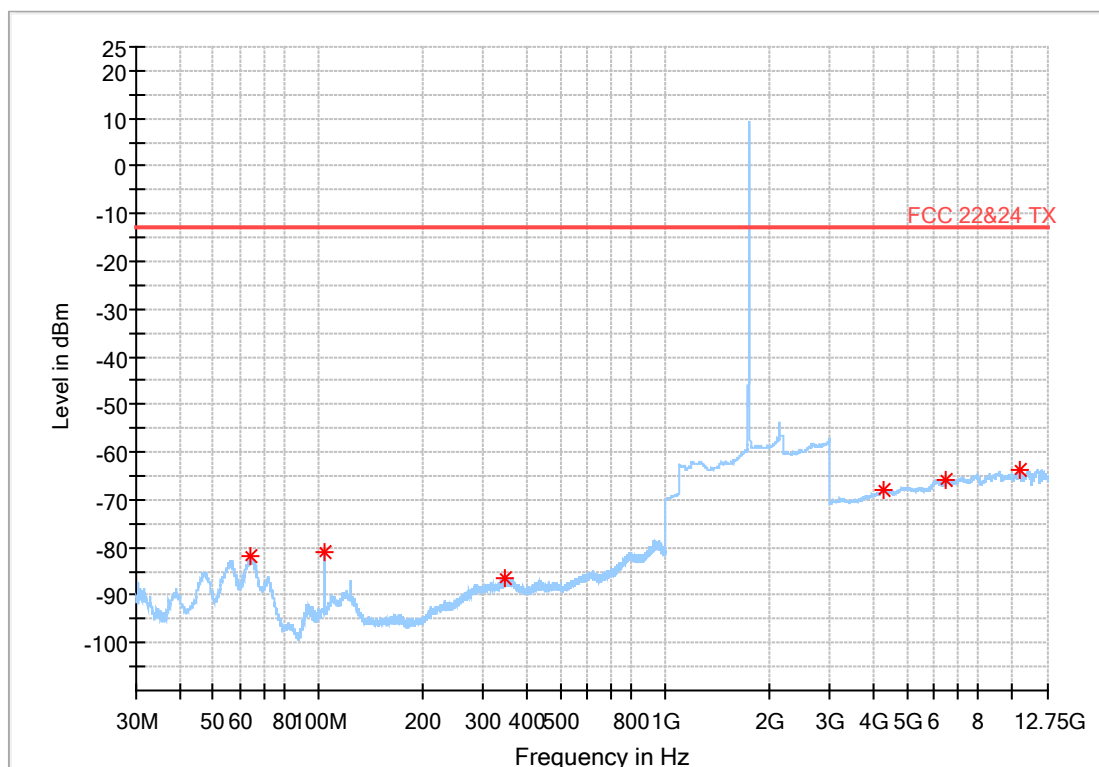
Critical_Freqs

Frequency (MHz)	Average (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.550000	-77.97	-13.00	64.97	---	---	200.0	H	0.0	-95.2
205.950000	-87.54	-13.00	74.54	---	---	200.0	H	57.0	-106.2
429.150000	-84.99	-13.00	71.99	---	---	200.0	H	288.0	-101.7
3820.950000	-69.13	-13.00	56.13	---	---	200.0	H	212.0	-104.2
6051.750000	-65.93	-13.00	52.93	---	---	200.0	H	0.0	-99.9
9231.225000	-64.03	-13.00	51.03	---	---	200.0	H	0.0	-96.9



7.1.1.2.5 HCH-Vertical

Full Spectrum



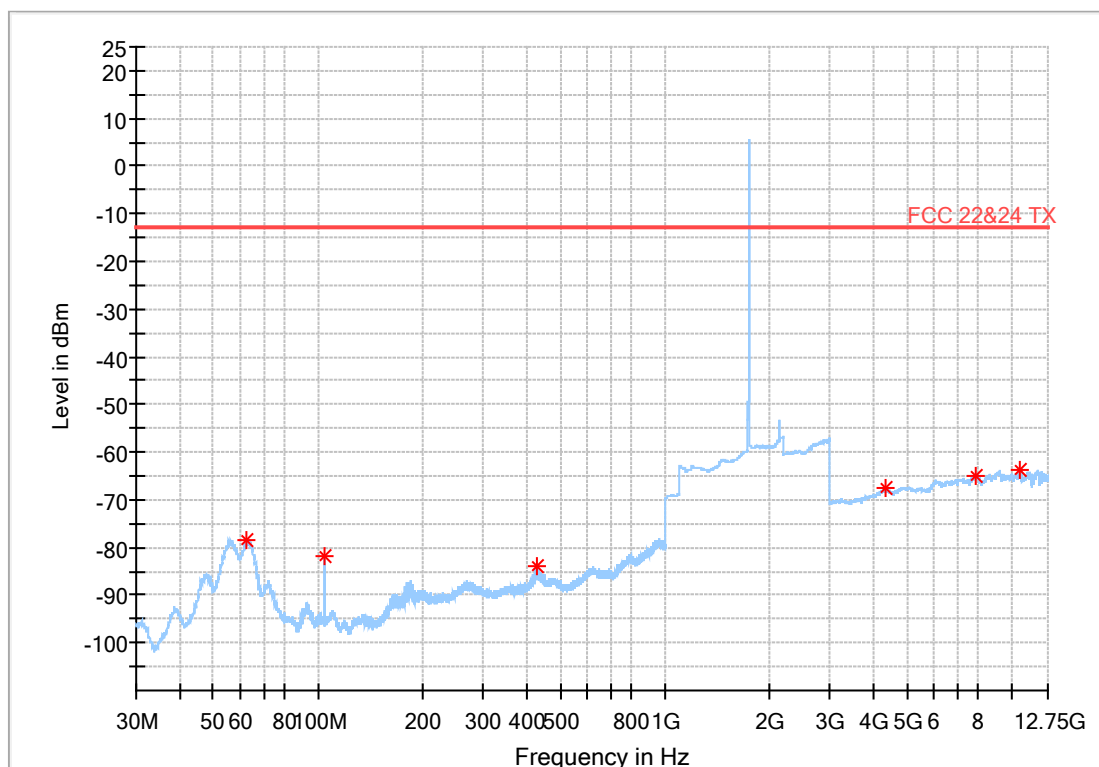
Critical_Freqs

Frequency (MHz)	Average (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
64.300000	-81.95	-13.00	68.95	---	---	200.0	V	262.0	-99.9
104.250000	-80.83	-13.00	67.83	---	---	200.0	V	215.0	-106.8
346.950000	-86.29	-13.00	73.29	---	---	200.0	V	334.0	-101.6
4305.200000	-67.81	-13.00	54.81	---	---	200.0	V	0.0	-102.7
6498.625000	-65.82	-13.00	52.82	---	---	200.0	V	0.0	-99.1
10641.400000	-63.62	-13.00	50.62	---	---	200.0	V	1.0	-96.2



7.1.1.2.6 HCH -Horizontal

Full Spectrum



Critical_Freqs

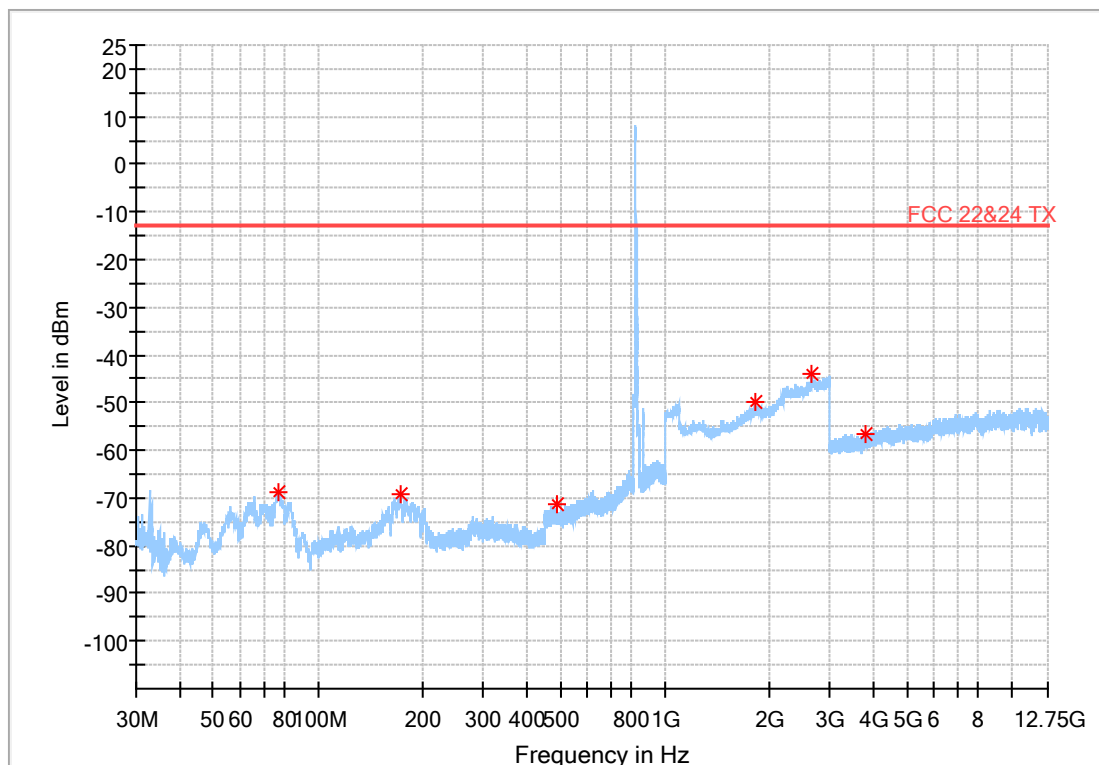
Frequency (MHz)	Average (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.150000	-78.61	-13.00	65.61	---	---	200.0	H	358.0	-95.0
104.300000	-81.92	-13.00	68.92	---	---	200.0	H	55.0	-109.6
430.700000	-84.02	-13.00	71.02	---	---	200.0	H	241.0	-101.7
4314.625000	-67.67	-13.00	54.67	---	---	200.0	H	0.0	-102.5
7850.950000	-64.91	-13.00	51.91	---	---	200.0	H	2.0	-97.9
10644.650000	-63.71	-13.00	50.71	---	---	200.0	H	0.0	-96.4



7.1.1.3 Test Band = WCDMA BAND V

7.1.1.3.1 LCH-Vertical

Full Spectrum



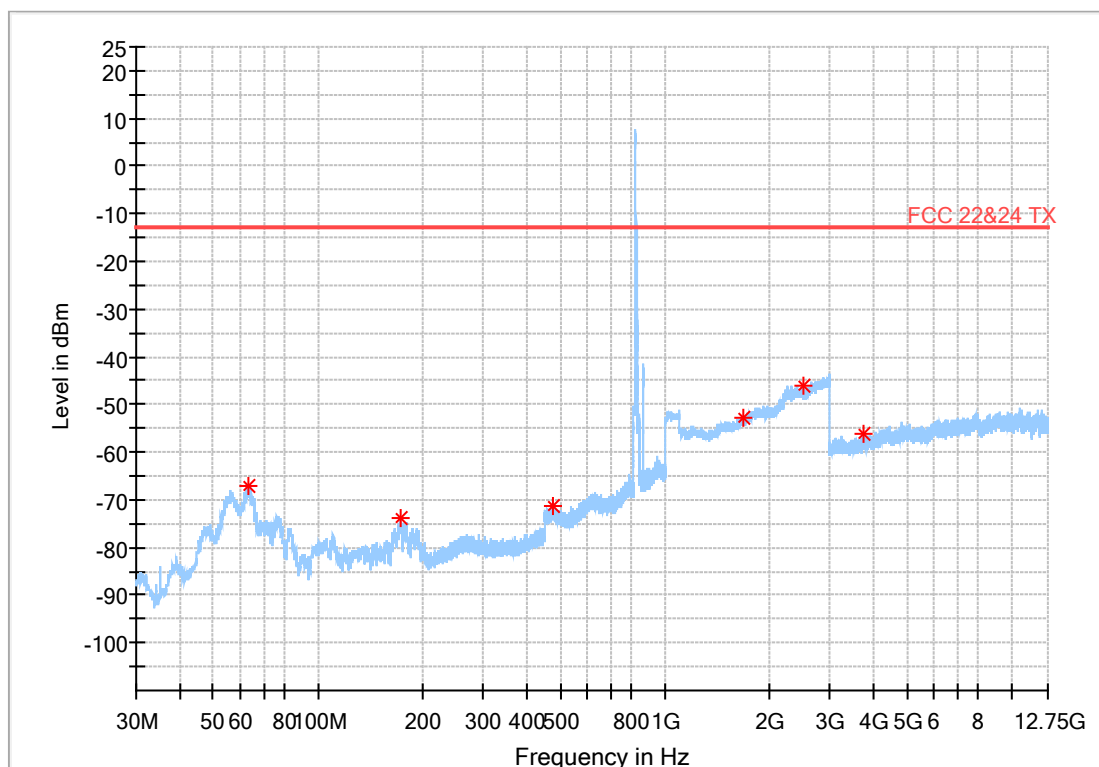
Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
76.650000	-68.60	-13.00	55.60	---	---	200.0	V	313.0	-107.8
173.000000	-69.07	-13.00	56.07	---	---	200.0	V	126.0	-108.9
492.716667	-71.44	-13.00	58.44	---	---	200.0	V	0.0	-102.0
1835.000000	-49.94	-13.00	36.94	---	---	200.0	V	285.0	-85.5
2642.000000	-44.11	-13.00	31.11	---	---	200.0	V	106.0	-79.5
3824.525000	-56.73	-13.00	43.73	---	---	200.0	V	2.0	-104.1



7.1.1.3.2 LCH -Horizontal

Full Spectrum



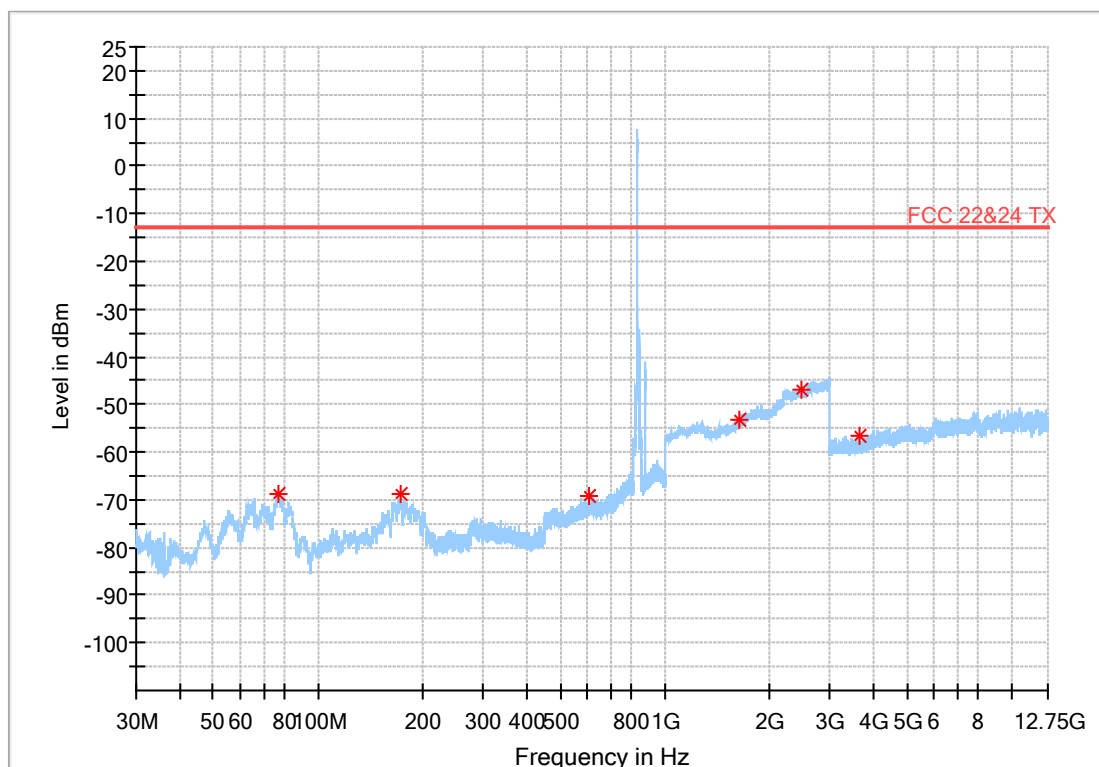
Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.950000	-66.97	-13.00	53.97	---	---	200.0	H	0.0	-95.6
173.700000	-73.89	-13.00	60.89	---	---	200.0	H	148.0	-107.1
477.591667	-71.45	-13.00	58.45	---	---	200.0	H	0.0	-100.6
1686.500000	-52.74	-13.00	39.74	---	---	200.0	H	142.0	-87.1
2504.500000	-45.96	-13.00	32.96	---	---	200.0	H	0.0	-81.3
3726.375000	-55.99	-13.00	42.99	---	---	200.0	H	2.0	-104.7



7.1.1.3.3 MCH-Vertical

Full Spectrum



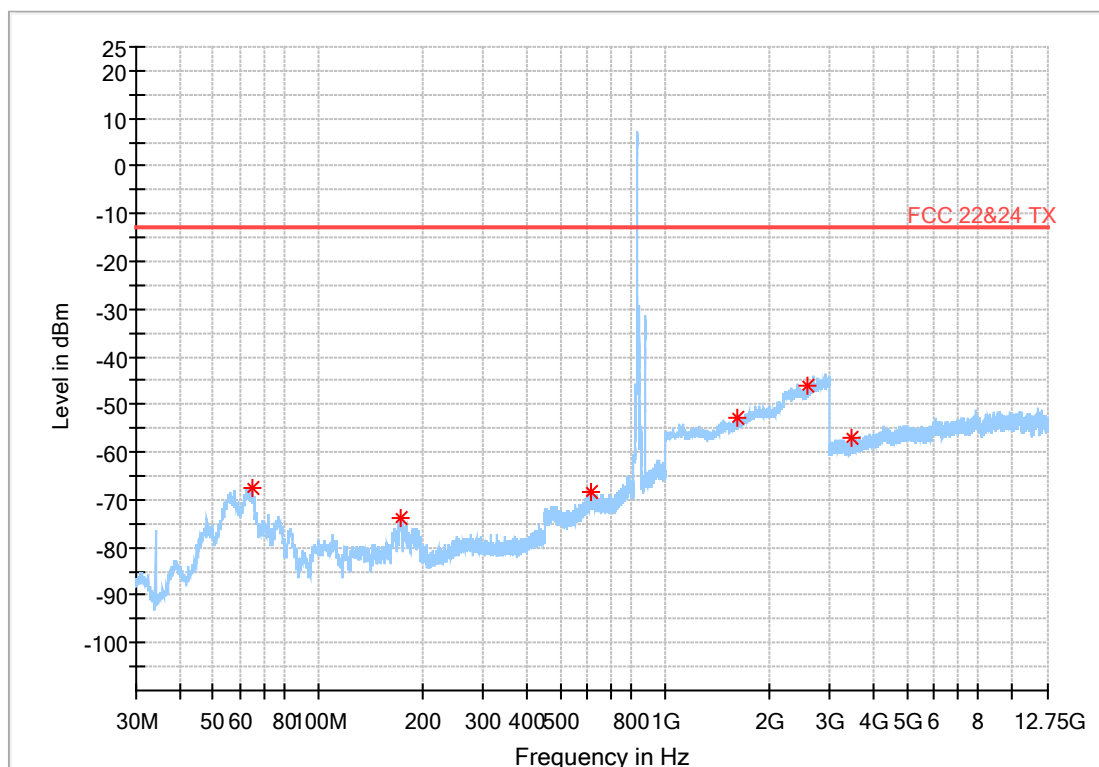
Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
76.900000	-68.73	-13.00	55.73	---	---	200.0	V	309.0	-108.0
173.200000	-68.94	-13.00	55.94	---	---	200.0	V	123.0	-108.9
608.125000	-69.35	-13.00	56.35	---	---	200.0	V	74.0	-99.2
1640.500000	-53.06	-13.00	40.06	---	---	200.0	V	353.0	-87.4
2476.000000	-46.71	-13.00	33.71	---	---	200.0	V	0.0	-80.7
3653.250000	-56.45	-13.00	43.45	---	---	200.0	V	0.0	-104.7



7.1.1.3.4 MCH -Horizontal

Full Spectrum



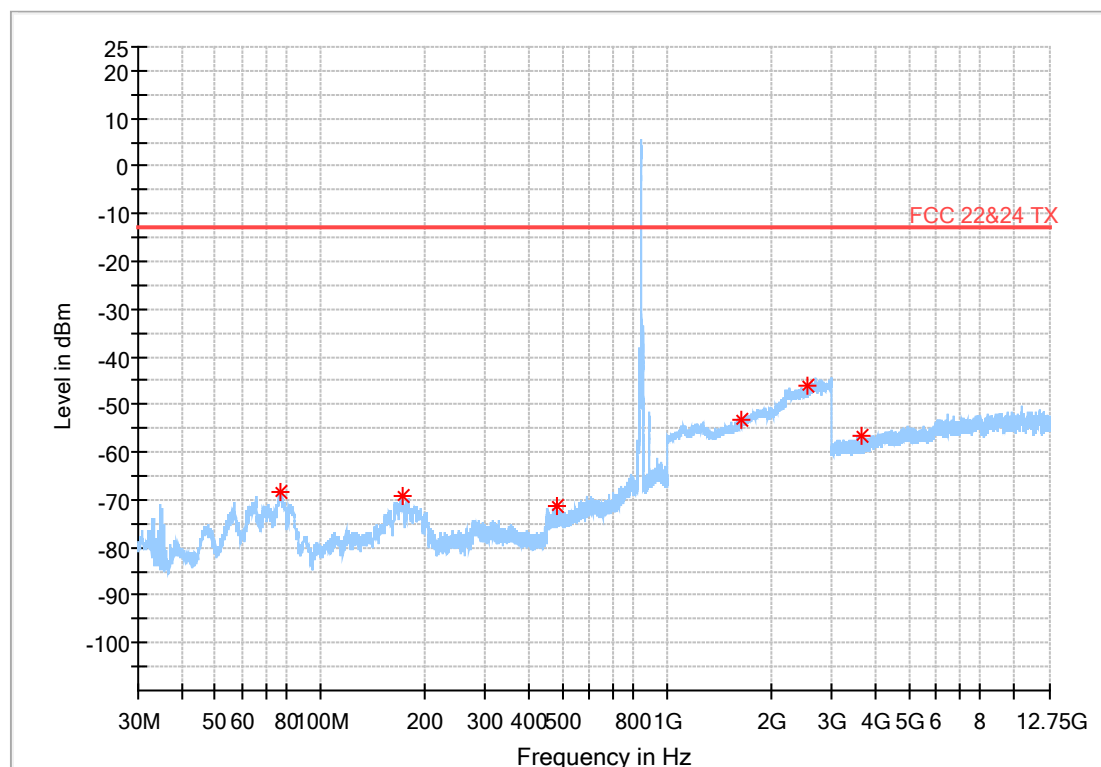
Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
64.700000	-67.33	-13.00	54.33	---	---	200.0	H	0.0	-97.5
173.100000	-73.67	-13.00	60.67	---	---	200.0	H	149.0	-107.2
611.975000	-68.55	-13.00	55.55	---	---	200.0	H	287.0	-98.2
1621.500000	-53.01	-13.00	40.01	---	---	200.0	H	142.0	-87.7
2582.000000	-45.88	-13.00	32.88	---	---	200.0	H	358.0	-80.5
3453.050000	-57.12	-13.00	44.12	---	---	200.0	H	0.0	-105.6



7.1.1.3.5 HCH-Vertical

Full Spectrum



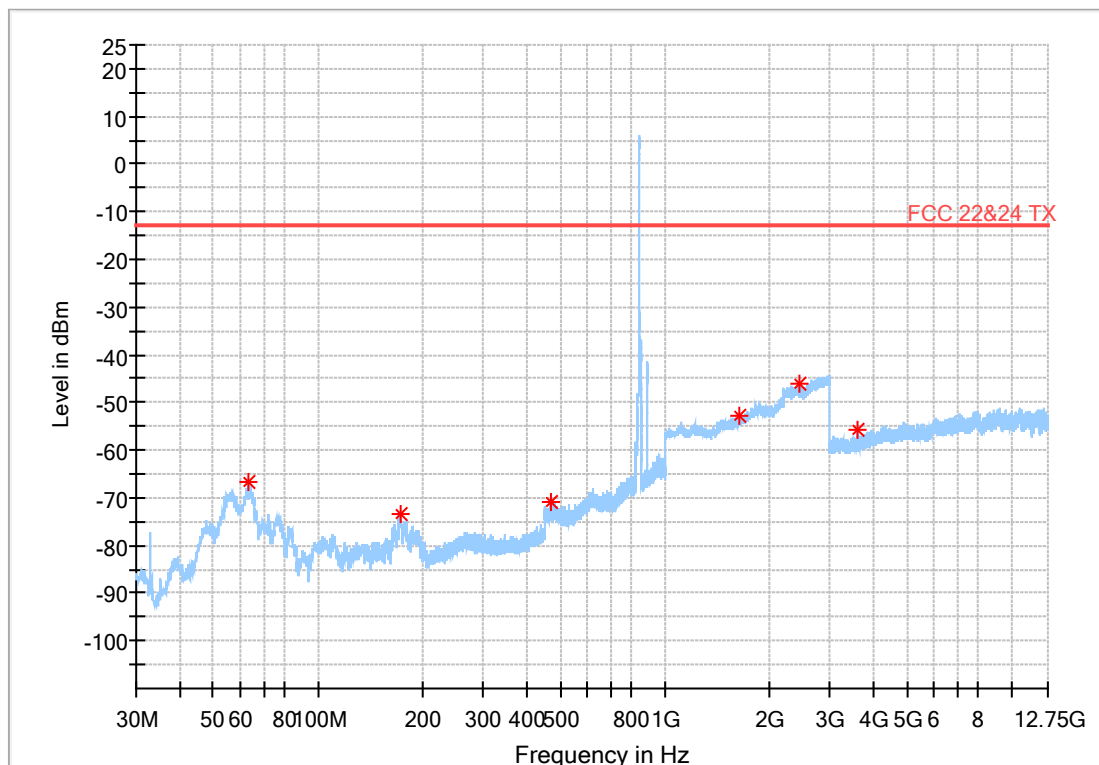
Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
77.400000	-68.20	-13.00	55.20	---	---	200.0	V	311.0	-108.4
173.300000	-69.11	-13.00	56.11	---	---	200.0	V	103.0	-108.9
480.800000	-71.29	-13.00	58.29	---	---	200.0	V	73.0	-101.5
1635.500000	-53.10	-13.00	40.10	---	---	200.0	V	355.0	-87.5
2551.500000	-46.08	-13.00	33.08	---	---	200.0	V	105.0	-80.7
3627.900000	-56.54	-13.00	43.54	---	---	200.0	V	0.0	-104.8



7.1.1.3.6 HCH -Horizontal

Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
63.450000	-66.48	-13.00	53.48	---	---	200.0	H	57.0	-96.1
173.250000	-73.43	-13.00	60.43	---	---	200.0	H	149.0	-107.1
467.783333	-70.83	-13.00	57.83	---	---	200.0	H	219.0	-101.1
1635.500000	-52.75	-13.00	39.75	---	---	200.0	H	284.0	-87.6
2466.000000	-46.22	-13.00	33.22	---	---	200.0	H	285.0	-80.8
3606.125000	-55.66	-13.00	42.66	---	---	200.0	H	211.0	-104.9



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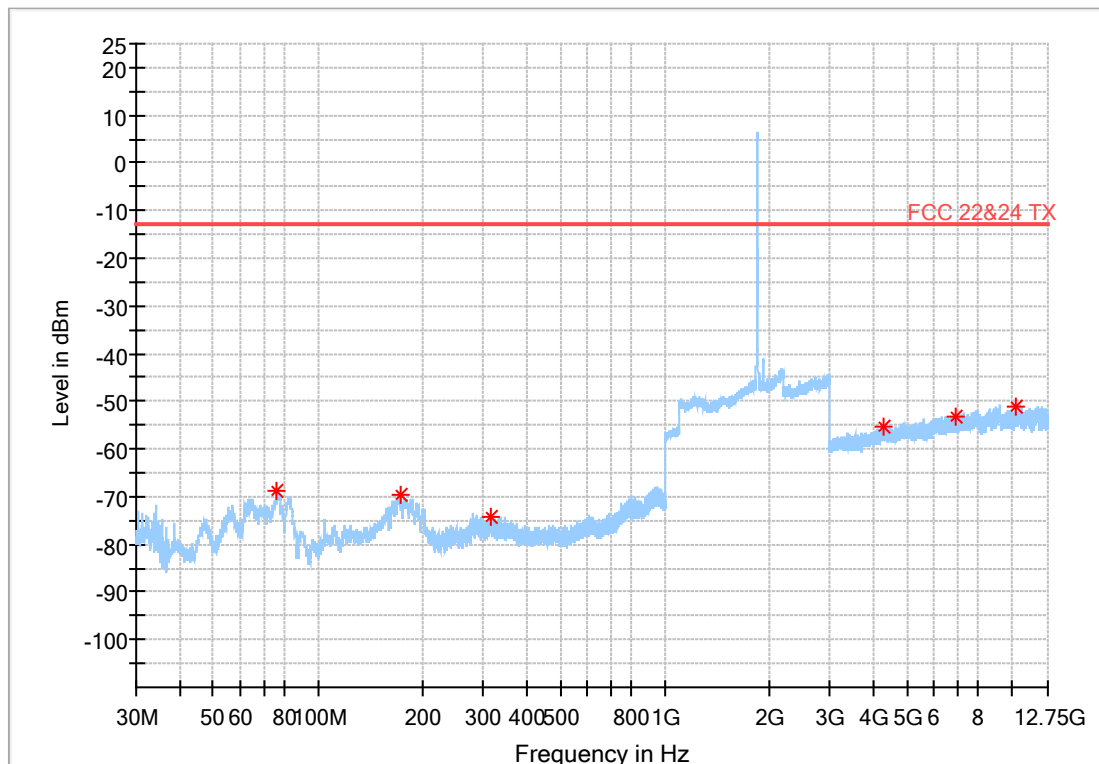
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7.1.2 Secondary Antenna

7.1.2.1 Test Band = WCDMA BAND II

7.1.2.1.1 LCH-Vertical

Full Spectrum



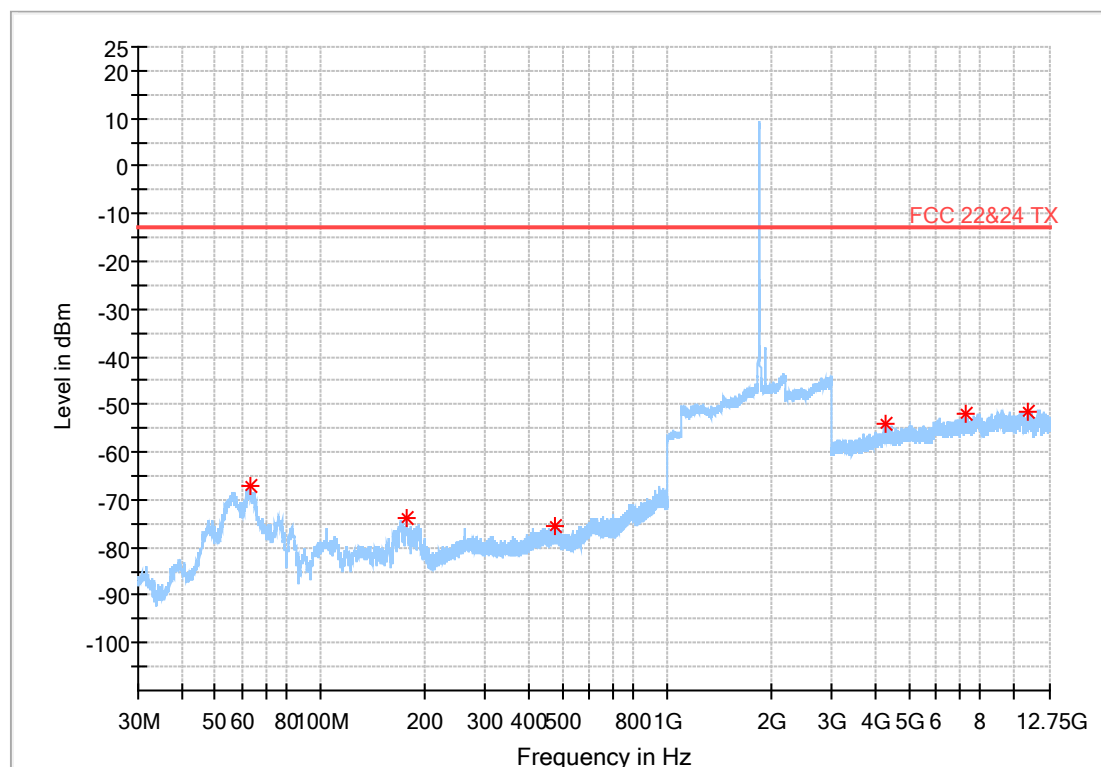
Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
76.600000	-68.87	-13.00	55.87	---	---	200.0	V	311.0	-107.7
173.350000	-69.80	-13.00	56.80	---	---	200.0	V	125.0	-108.9
317.900000	-74.23	-13.00	61.23	---	---	200.0	V	171.0	-102.0
4293.175000	-55.16	-13.00	42.16	---	---	200.0	V	0.0	-102.8
6945.500000	-53.06	-13.00	40.06	---	---	200.0	V	0.0	-99.2
10242.625000	-51.04	-13.00	38.04	---	---	200.0	V	0.0	-96.7



7.1.2.1.2 LCH -Horizontal

Full Spectrum



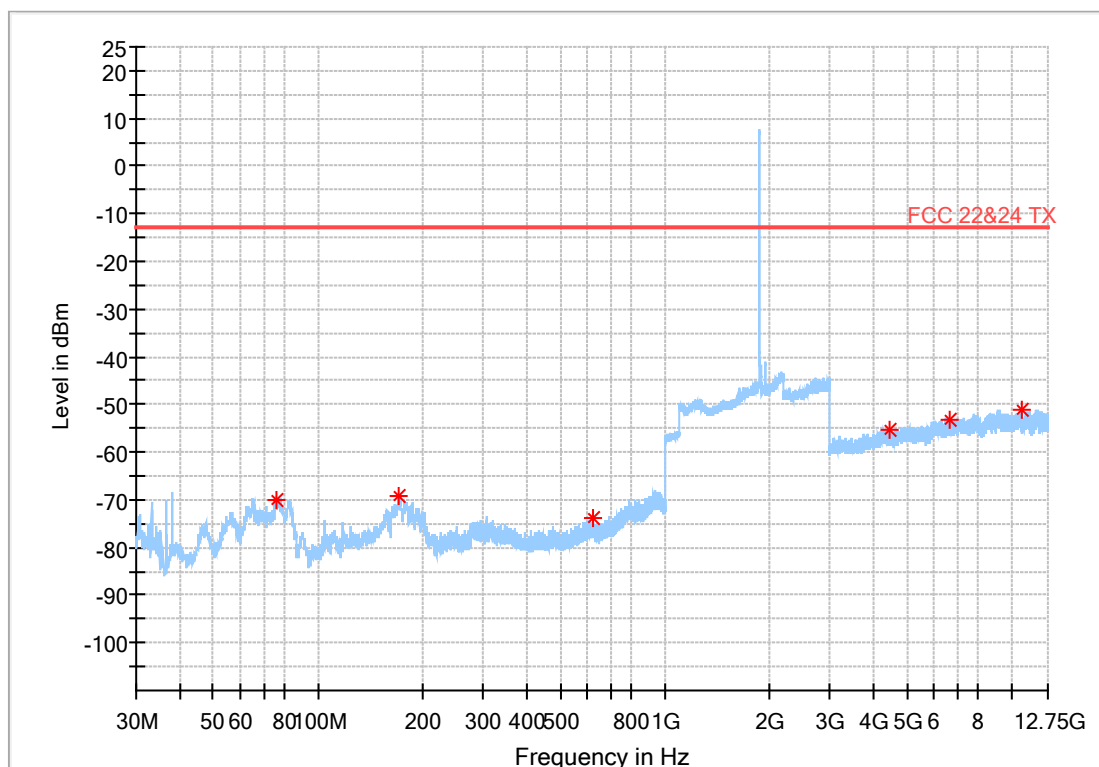
Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.950000	-67.08	-13.00	54.08	---	---	200.0	H	10.0	-95.6
177.550000	-73.99	-13.00	60.99	---	---	200.0	H	172.0	-107.2
477.729167	-75.52	-13.00	62.52	---	---	200.0	H	38.0	-100.6
4306.175000	-54.18	-13.00	41.18	---	---	200.0	H	2.0	-102.6
7245.800000	-52.12	-13.00	39.12	---	---	200.0	H	2.0	-99.5
11080.800000	-51.53	-13.00	38.53	---	---	200.0	H	2.0	-96.8



7.1.2.1.3 MCH-Vertical

Full Spectrum



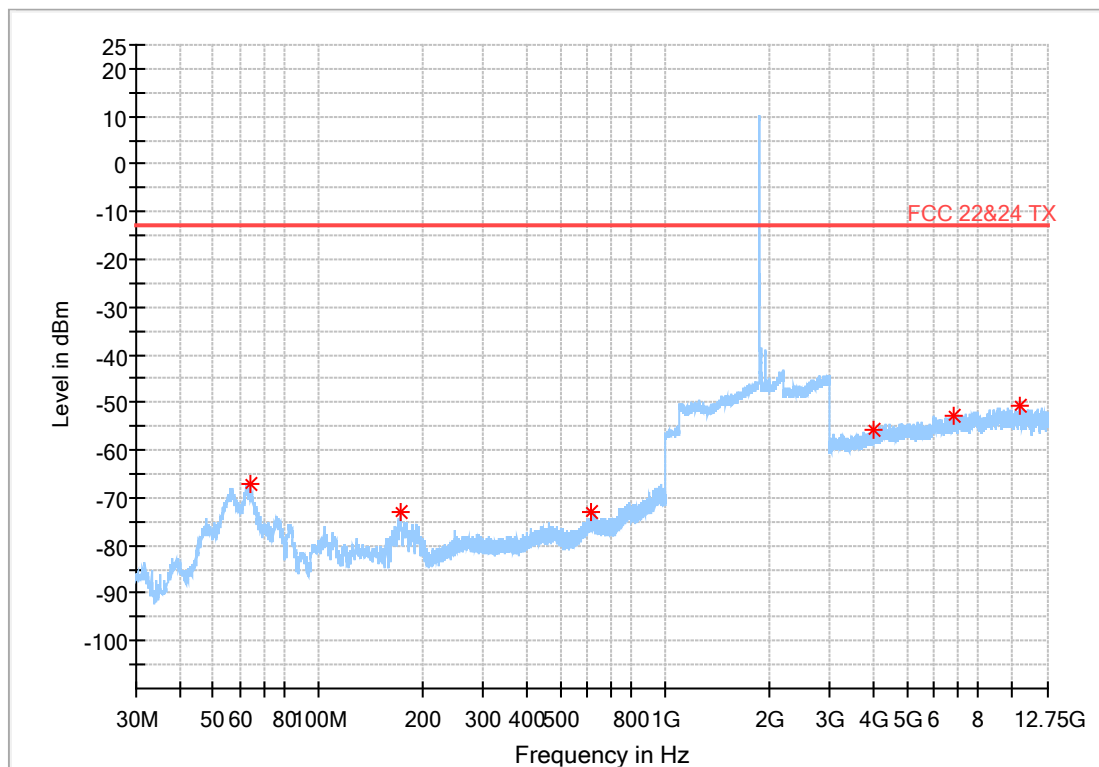
Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
76.350000	-69.86	-13.00	56.86	---	---	200.0	V	312.0	-107.5
172.450000	-69.09	-13.00	56.09	---	---	200.0	V	103.0	-108.9
620.316667	-73.94	-13.00	60.94	---	---	200.0	V	151.0	-99.0
4429.350000	-55.22	-13.00	42.22	---	---	200.0	V	0.0	-102.8
6617.250000	-53.11	-13.00	40.11	---	---	200.0	V	214.0	-99.2
10658.625000	-51.06	-13.00	38.06	---	---	200.0	V	0.0	-96.2



7.1.2.1.4 MCH -Horizontal

Full Spectrum



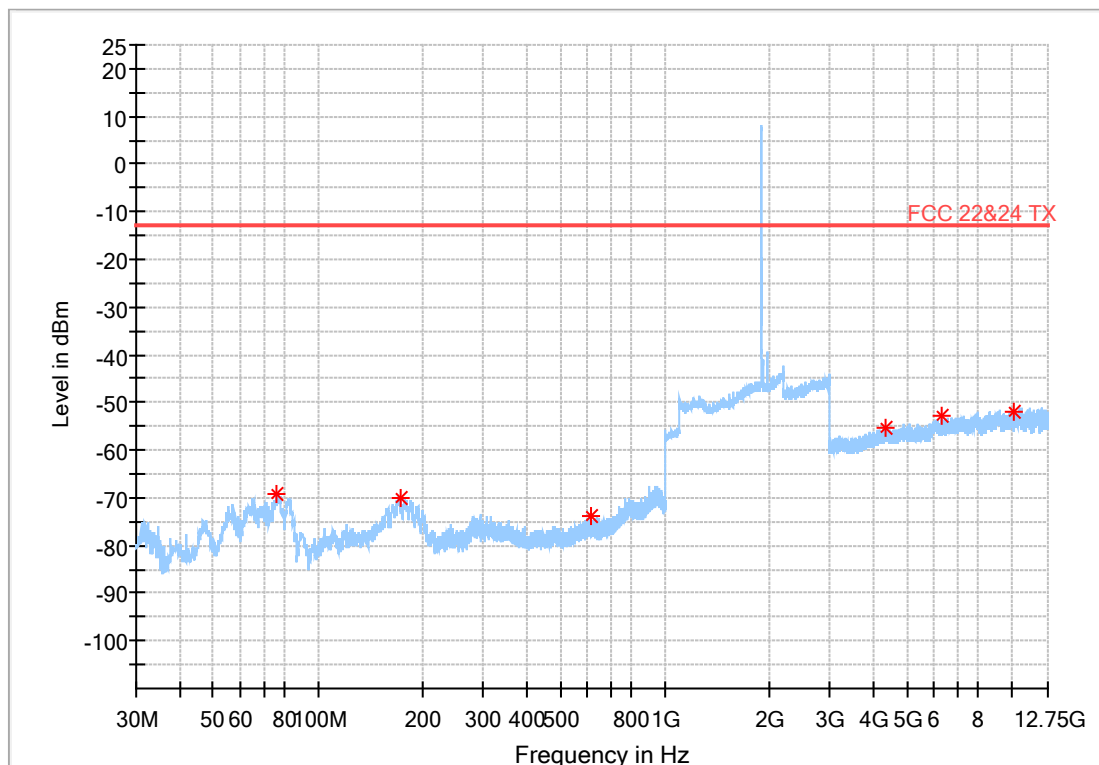
Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
63.700000	-66.91	-13.00	53.91	---	---	200.0	H	8.0	-96.4
173.200000	-73.07	-13.00	60.07	---	---	200.0	H	148.0	-107.1
612.754167	-72.95	-13.00	59.95	---	---	200.0	H	151.0	-98.1
4022.775000	-55.54	-13.00	42.54	---	---	200.0	H	0.0	-103.6
6847.350000	-52.73	-13.00	39.73	---	---	200.0	H	212.0	-99.4
10632.625000	-50.69	-13.00	37.69	---	---	200.0	H	2.0	-96.4



7.1.2.1.5 HCH-Vertical

Full Spectrum



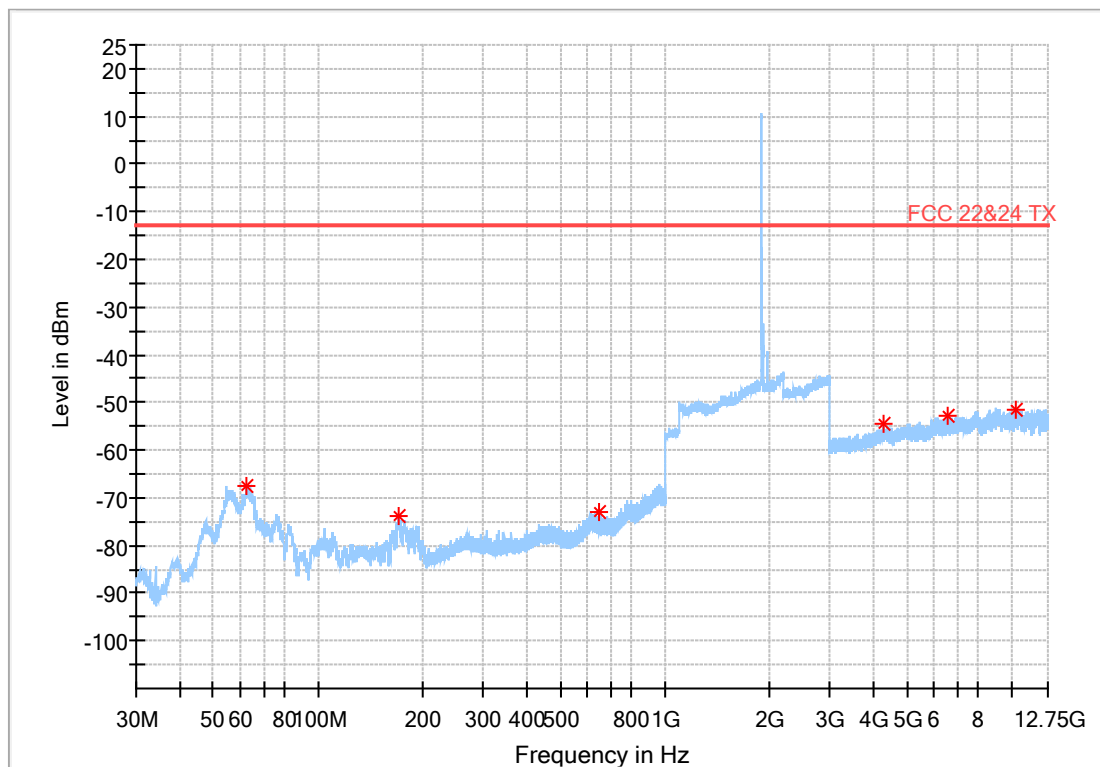
Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
76.450000	-69.27	-13.00	56.27	---	---	200.0	V	311.0	-107.6
173.400000	-70.06	-13.00	57.06	---	---	200.0	V	102.0	-109.0
611.012500	-73.97	-13.00	60.97	---	---	200.0	V	336.0	-99.1
4349.400000	-55.46	-13.00	42.46	---	---	200.0	V	1.0	-102.9
6314.675000	-52.73	-13.00	39.73	---	---	200.0	V	0.0	-99.7
10220.850000	-51.77	-13.00	38.77	---	---	200.0	V	1.0	-96.9



7.1.2.1.6 HCH -Horizontal

Full Spectrum



Critical_Freqs

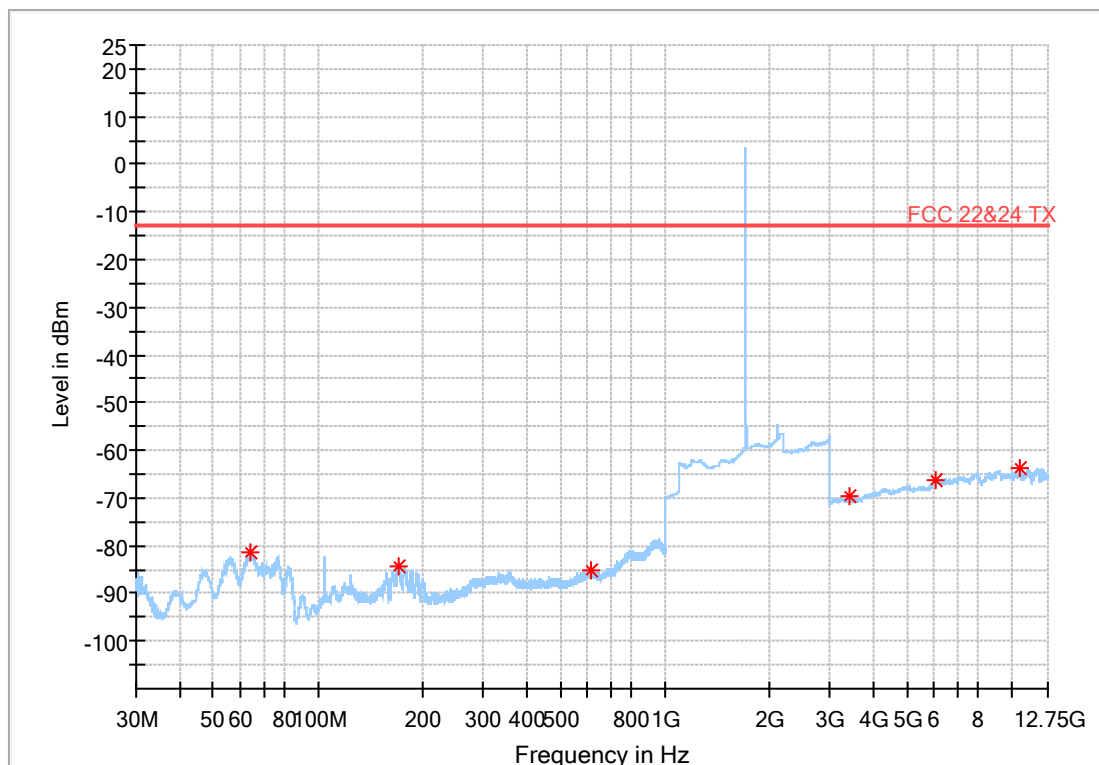
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.200000	-67.72	-13.00	54.72	---	---	200.0	H	287.0	-95.0
172.400000	-73.95	-13.00	60.95	---	---	200.0	H	148.0	-107.2
649.512500	-73.17	-13.00	60.17	---	---	200.0	H	1.0	-98.8
4287.325000	-54.66	-13.00	41.66	---	---	200.0	H	0.0	-102.7
6573.375000	-52.74	-13.00	39.74	---	---	200.0	H	0.0	-99.2
10284.550000	-51.59	-13.00	38.59	---	---	200.0	H	212.0	-96.6



7.1.2.2 Test Band = WCDMA BAND IV

7.1.2.2.1 LCH-Vertical

Full Spectrum



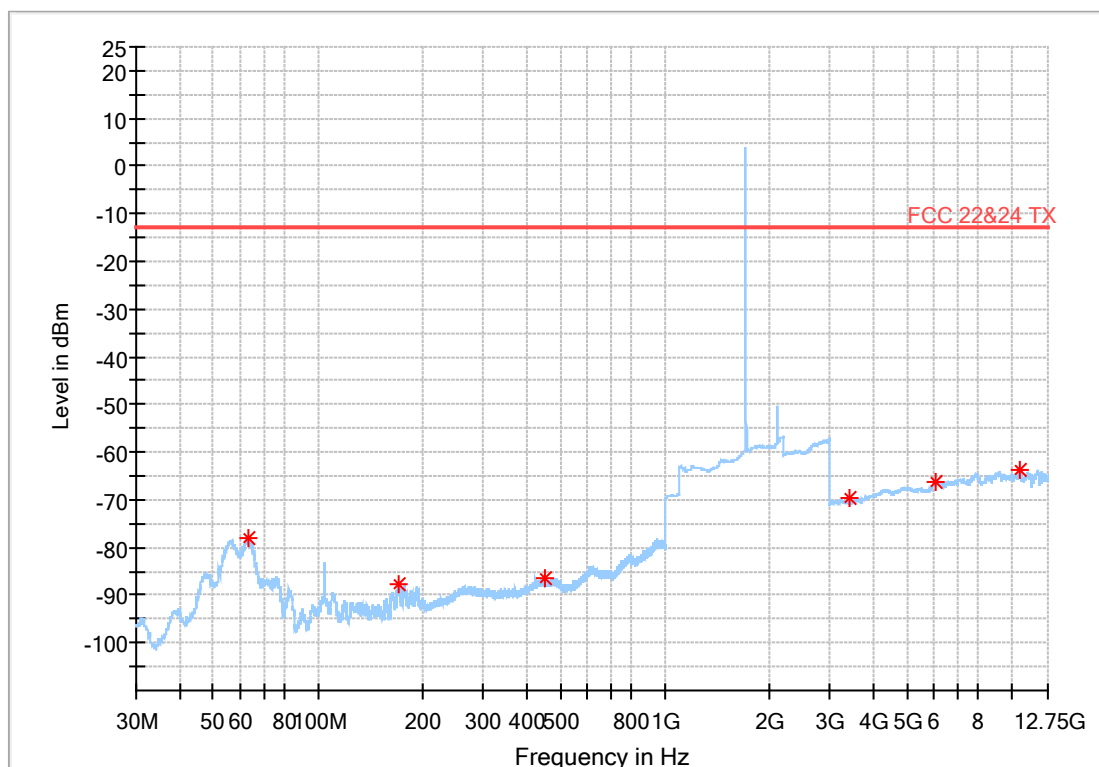
Critical_Freqs

Frequency (MHz)	Average (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
63.650000	-81.45	-13.00	68.45	---	---	200.0	V	170.0	-100.1
170.750000	-84.25	-13.00	71.25	---	---	200.0	V	124.0	-108.8
613.991667	-85.10	-13.00	72.10	---	---	200.0	V	114.0	-99.0
3422.825000	-69.66	-13.00	56.66	---	---	200.0	V	213.0	-105.5
6054.675000	-66.17	-13.00	53.17	---	---	200.0	V	0.0	-99.7
10616.050000	-63.69	-13.00	50.69	---	---	200.0	V	0.0	-96.3



7.1.2.2.2 LCH -Horizontal

Full Spectrum



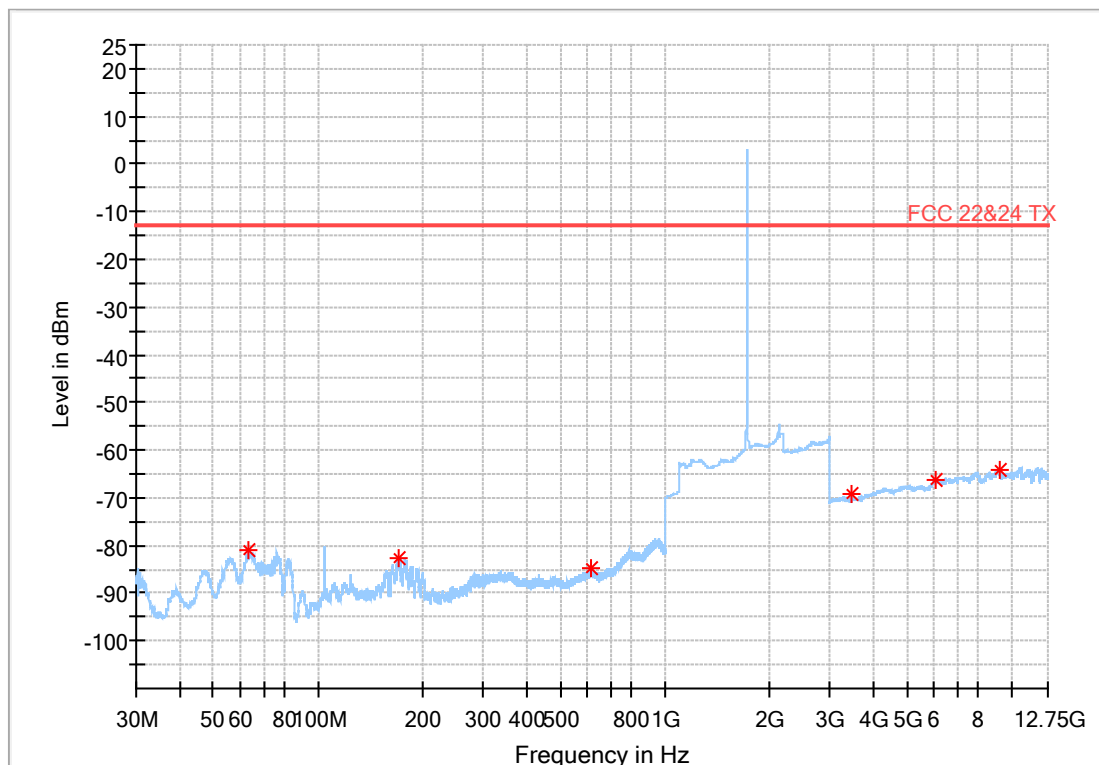
Critical_Freqs

Frequency (MHz)	Average (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
63.450000	-78.00	-13.00	65.00	---	---	200.0	H	8.0	-96.1
172.050000	-87.54	-13.00	74.54	---	---	200.0	H	148.0	-107.2
452.566667	-86.42	-13.00	73.42	---	---	200.0	H	2.0	-101.0
3422.825000	-69.75	-13.00	56.75	---	---	200.0	H	0.0	-105.7
6030.950000	-66.13	-13.00	53.13	---	---	200.0	H	212.0	-100.1
10632.950000	-63.67	-13.00	50.67	---	---	200.0	H	0.0	-96.4



7.1.2.2.3 MCH-Vertical

Full Spectrum



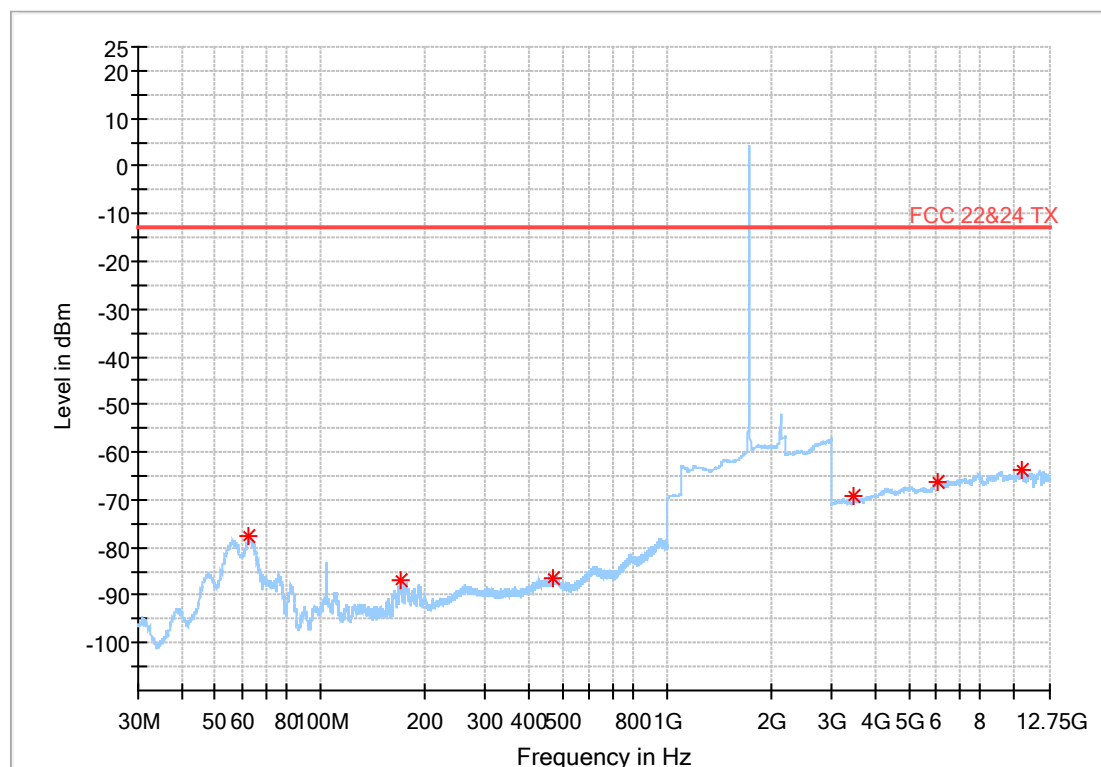
Critical_Freqs

Frequency (MHz)	Average (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
63.450000	-80.97	-13.00	67.97	---	---	200.0	V	150.0	-100.1
171.550000	-82.50	-13.00	69.50	---	---	200.0	V	127.0	-108.8
612.387500	-84.75	-13.00	71.75	---	---	200.0	V	114.0	-99.1
3463.125000	-69.17	-13.00	56.17	---	---	200.0	V	0.0	-105.4
6039.725000	-66.13	-13.00	53.13	---	---	200.0	V	2.0	-99.9
9253.000000	-64.06	-13.00	51.06	---	---	200.0	V	0.0	-97.0



7.1.2.2.4 MCH -Horizontal

Full Spectrum



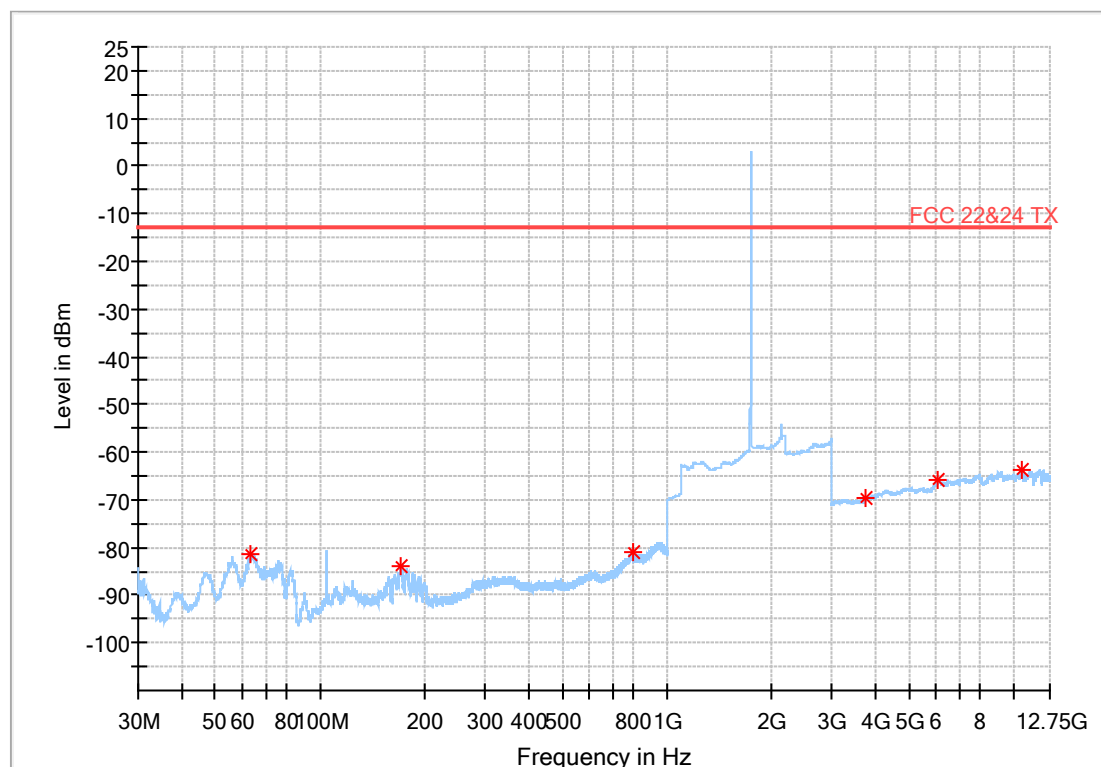
Critical_Freqs

Frequency (MHz)	Average (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.250000	-77.76	-13.00	64.76	---	---	200.0	H	10.0	-95.0
171.700000	-86.91	-13.00	73.91	---	---	200.0	H	149.0	-107.2
469.158333	-86.34	-13.00	73.34	---	---	200.0	H	226.0	-101.0
3462.800000	-69.00	-13.00	56.00	---	---	200.0	H	0.0	-105.5
6040.700000	-66.16	-13.00	53.16	---	---	200.0	H	2.0	-100.0
10644.975000	-63.86	-13.00	50.86	---	---	200.0	H	0.0	-96.4



7.1.2.2.5 HCH-Vertical

Full Spectrum



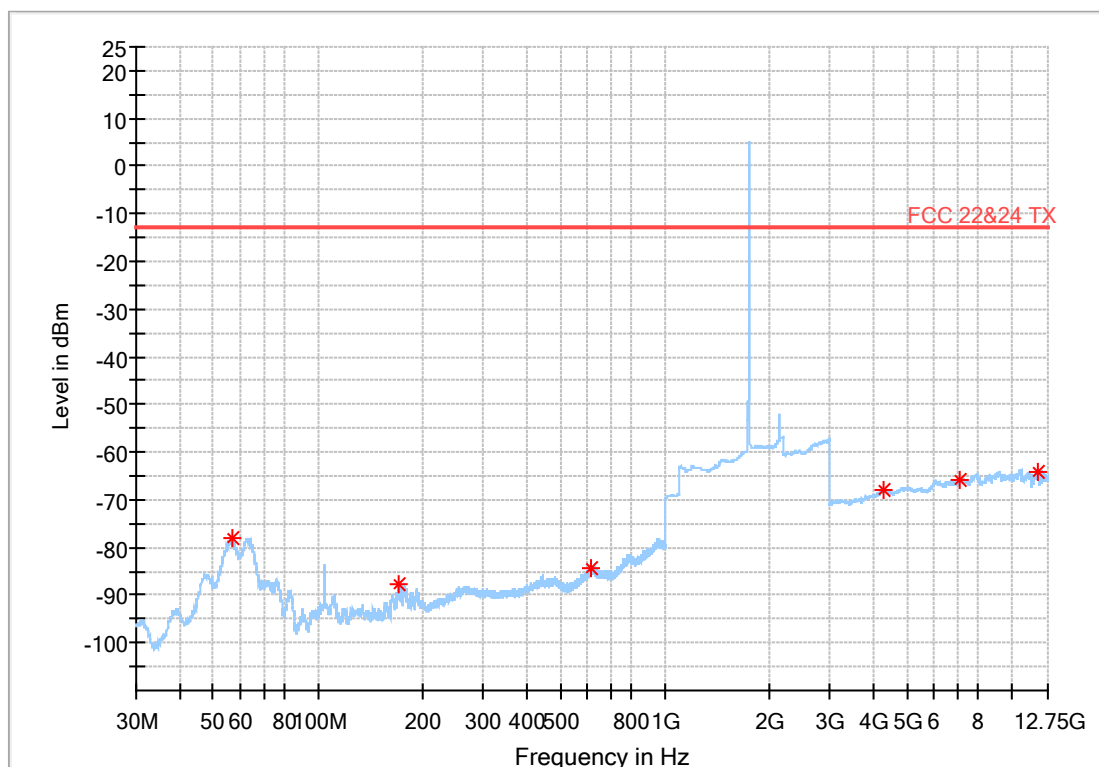
Critical_Freqs

Frequency (MHz)	Average (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
63.600000	-81.46	-13.00	68.46	---	---	200.0	V	218.0	-100.1
172.000000	-83.90	-13.00	70.90	---	---	200.0	V	146.0	-108.9
799.800000	-80.79	-13.00	67.79	---	---	200.0	V	226.0	-94.6
3741.000000	-69.62	-13.00	56.62	---	---	200.0	V	1.0	-104.5
6058.575000	-65.88	-13.00	52.88	---	---	200.0	V	0.0	-99.7
10631.650000	-63.67	-13.00	50.67	---	---	200.0	V	0.0	-96.3



7.1.2.2.6 HCH -Horizontal

Full Spectrum



Critical_Freqs

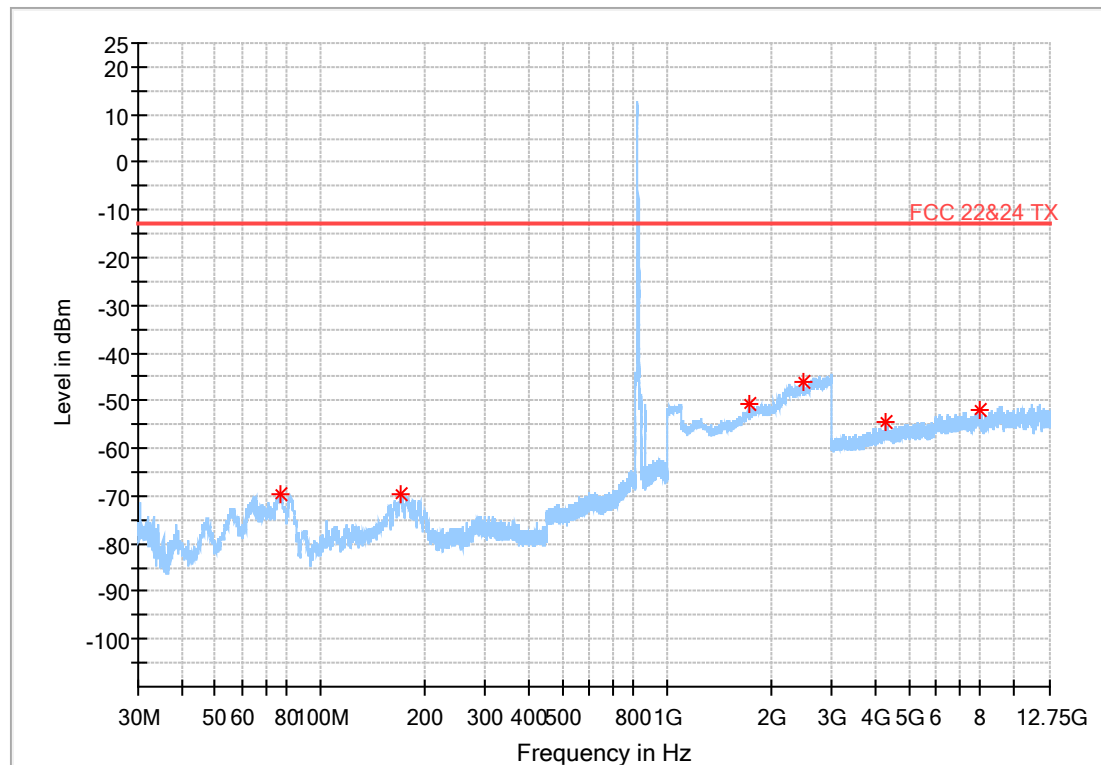
Frequency (MHz)	Average (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
56.450000	-78.04	-13.00	65.04	---	---	200.0	H	264.0	-96.7
172.100000	-87.68	-13.00	74.68	---	---	200.0	H	148.0	-107.2
614.312500	-84.25	-13.00	71.25	---	---	200.0	H	338.0	-98.0
4266.200000	-68.06	-13.00	55.06	---	---	200.0	H	2.0	-102.8
7139.525000	-65.73	-13.00	52.73	---	---	200.0	H	0.0	-99.3
11892.650000	-63.97	-13.00	50.97	---	---	200.0	H	2.0	-96.1



7.1.2.3 Test Band = WCDMA BAND V

7.1.2.3.1 LCH-Vertical

Full Spectrum



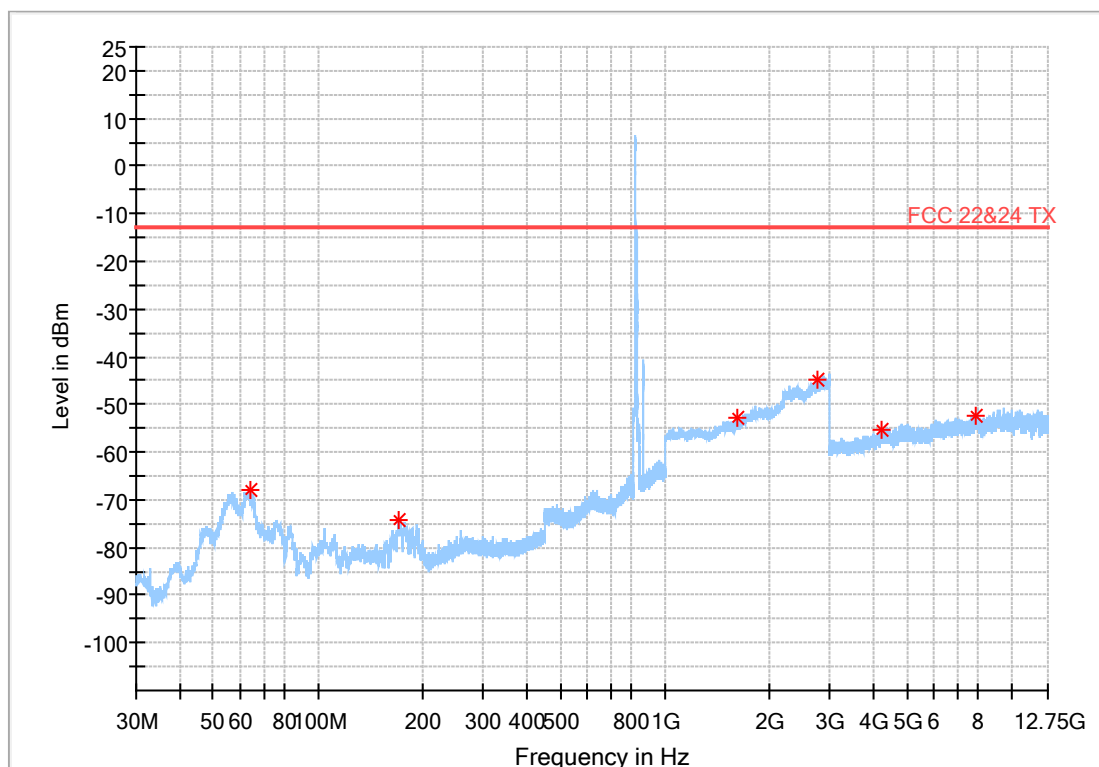
Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
77.050000	-69.56	-13.00	56.56	---	---	200.0	V	312.0	-108.1
172.250000	-69.59	-13.00	56.59	---	---	200.0	V	123.0	-108.9
1736.000000	-50.91	-13.00	37.91	---	---	200.0	V	142.0	-86.7
2485.500000	-45.91	-13.00	32.91	---	---	200.0	V	323.0	-80.8
4291.875000	-54.67	-13.00	41.67	---	---	200.0	V	0.0	-102.8
7970.550000	-52.02	-13.00	39.02	---	---	200.0	V	0.0	-98.2



7.1.2.3.2 LCH -Horizontal

Full Spectrum



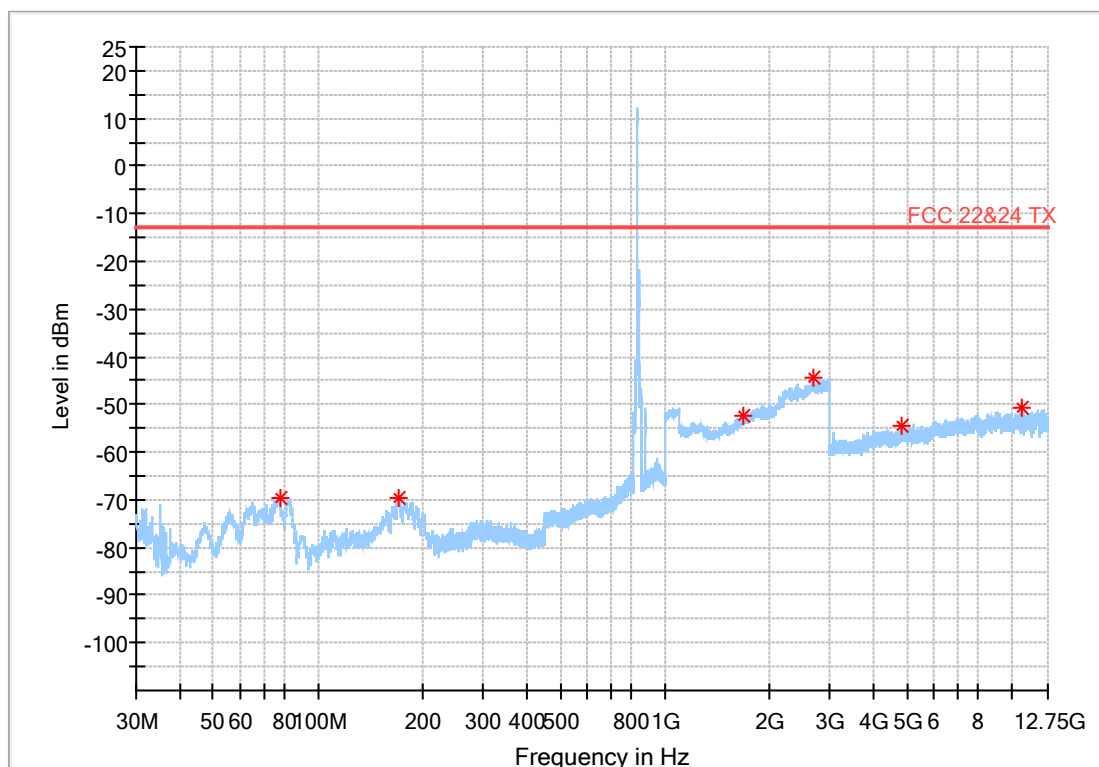
Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
63.700000	-68.04	-13.00	55.04	---	---	200.0	H	336.0	-96.4
172.000000	-74.10	-13.00	61.10	---	---	200.0	H	151.0	-107.2
1626.500000	-52.71	-13.00	39.71	---	---	200.0	H	141.0	-87.7
2754.500000	-44.61	-13.00	31.61	---	---	200.0	H	67.0	-79.1
4241.825000	-55.51	-13.00	42.51	---	---	200.0	H	0.0	-103.0
7888.650000	-52.18	-13.00	39.18	---	---	200.0	H	0.0	-97.9



7.1.2.3.3 MCH-Vertical

Full Spectrum



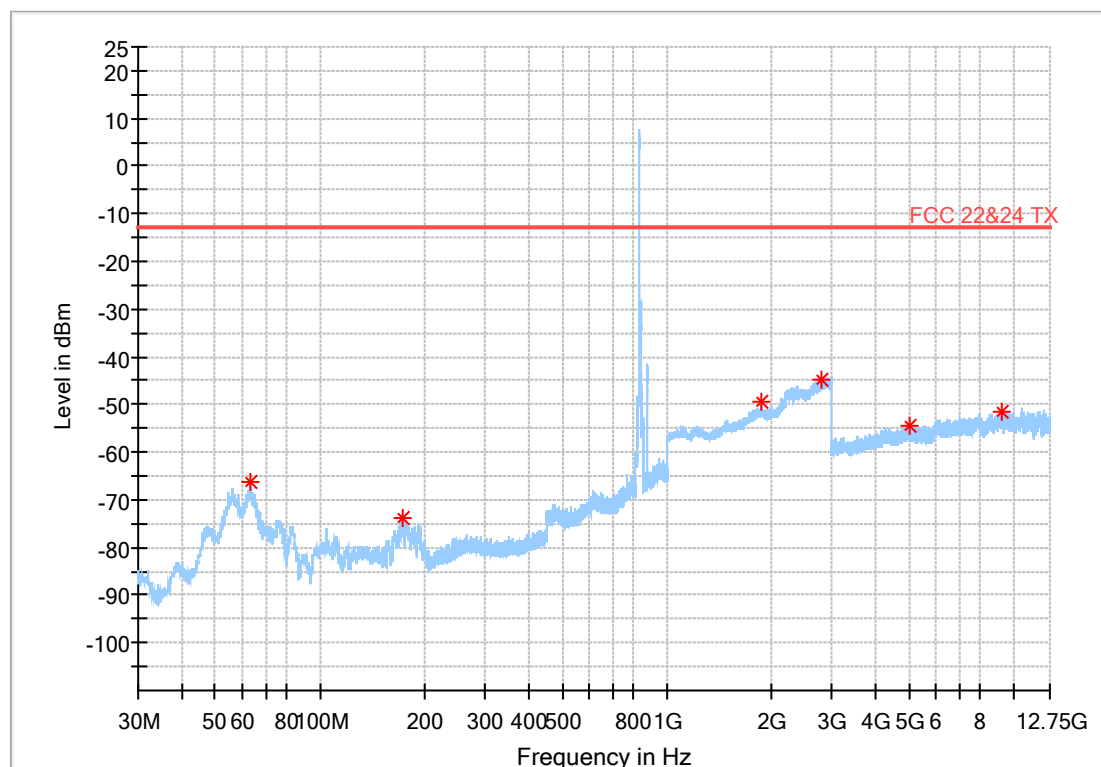
Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
77.800000	-69.79	-13.00	56.79	---	---	200.0	V	312.0	-108.7
172.250000	-69.57	-13.00	56.57	---	---	200.0	V	103.0	-108.9
1687.500000	-52.22	-13.00	39.22	---	---	200.0	V	214.0	-87.0
2703.000000	-44.53	-13.00	31.53	---	---	200.0	V	177.0	-78.9
4841.450000	-54.54	-13.00	41.54	---	---	200.0	V	213.0	-101.9
10658.950000	-50.87	-13.00	37.87	---	---	200.0	V	213.0	-96.2



7.1.2.3.4 MCH -Horizontal

Full Spectrum



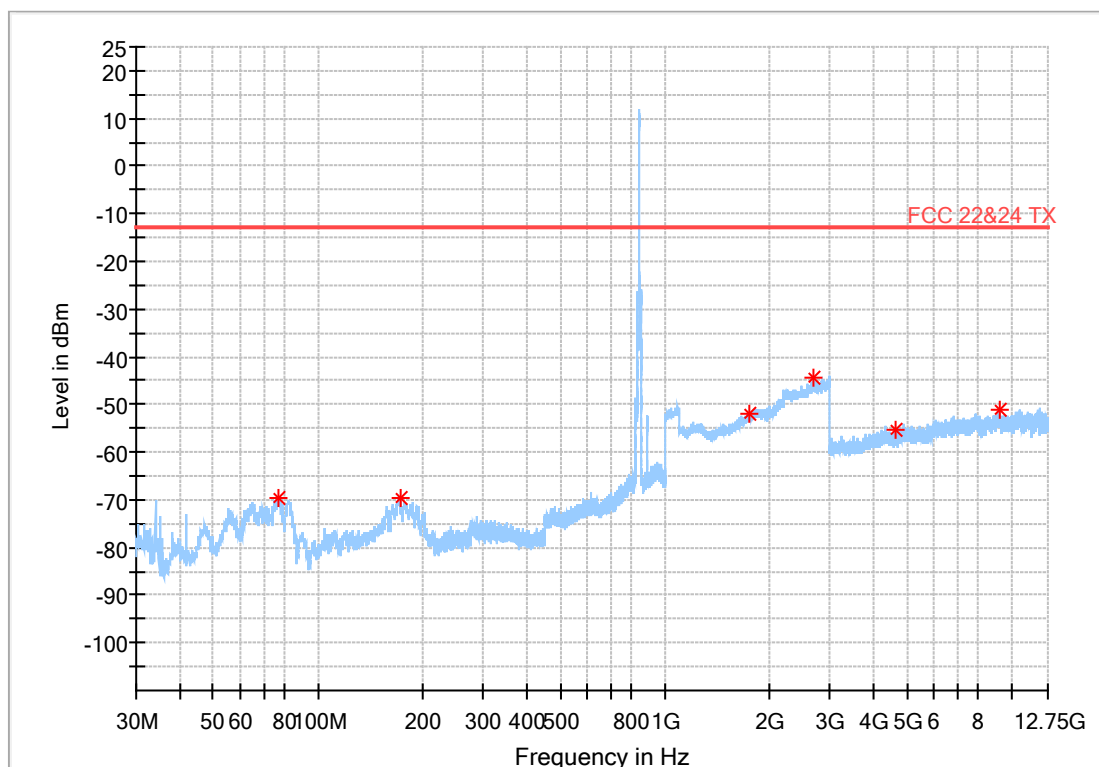
Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
63.100000	-66.46	-13.00	53.46	---	---	200.0	H	9.0	-95.8
172.650000	-73.94	-13.00	60.94	---	---	200.0	H	149.0	-107.2
1880.000000	-49.52	-13.00	36.52	---	---	200.0	H	354.0	-85.4
2798.000000	-44.96	-13.00	31.96	---	---	200.0	H	285.0	-78.6
5017.600000	-54.57	-13.00	41.57	---	---	200.0	H	212.0	-101.4
9204.250000	-51.72	-13.00	38.72	---	---	200.0	H	0.0	-96.9



7.1.2.3.5 HCH-Vertical

Full Spectrum



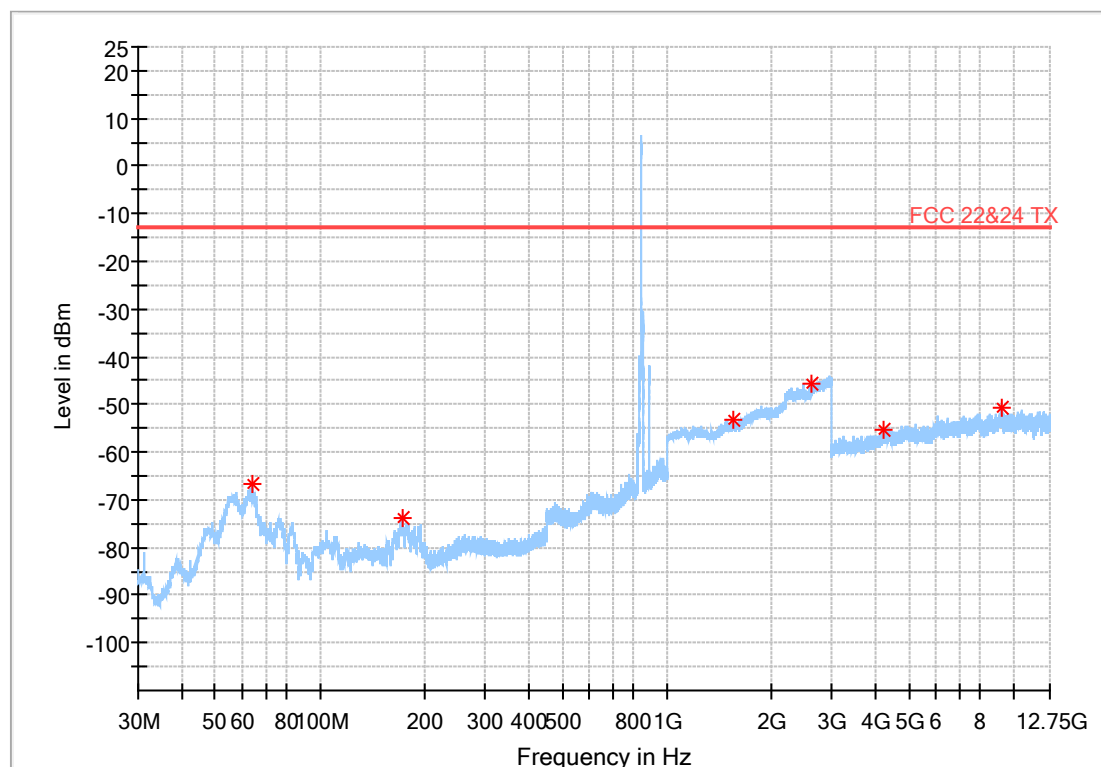
Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
76.750000	-69.57	-13.00	56.57	---	---	200.0	V	287.0	-107.8
172.550000	-69.81	-13.00	56.81	---	---	200.0	V	127.0	-108.9
1768.500000	-51.80	-13.00	38.80	---	---	200.0	V	214.0	-86.5
2694.000000	-44.59	-13.00	31.59	---	---	200.0	V	0.0	-78.8
4654.575000	-55.21	-13.00	42.21	---	---	200.0	V	2.0	-102.6
9326.450000	-50.93	-13.00	37.93	---	---	200.0	V	2.0	-97.1



7.1.2.3.6 HCH -Horizontal

Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
63.700000	-66.70	-13.00	53.70	---	---	200.0	H	33.0	-96.4
172.500000	-74.04	-13.00	61.04	---	---	200.0	H	149.0	-107.2
1568.500000	-53.04	-13.00	40.04	---	---	200.0	H	353.0	-88.2
2602.000000	-45.50	-13.00	32.50	---	---	200.0	H	0.0	-80.1
4227.525000	-55.17	-13.00	42.17	---	---	200.0	H	0.0	-103.1
9237.725000	-50.72	-13.00	37.72	---	---	200.0	H	0.0	-96.9

REMARK:

- 1) The disturbance above 12.75GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.
- 2) We have tested all modulation and all Bandwidth , but only the worst case data presented in this report.



8 Frequency Stability

8.1 Frequency Error VS. Voltage

BAND	Modulation	Channel	Voltage					
			Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	QPSK	9262	VL	TN	-2.61	-0.00141	±2.5	PASS
Band II	QPSK	9262	VN	TN	7.31	0.00394	±2.5	PASS
Band II	QPSK	9262	VH	TN	2.18	0.00118	±2.5	PASS
Band II	QPSK	9400	VL	TN	-0.26	-0.00014	±2.5	PASS
Band II	QPSK	9400	VN	TN	-8.68	-0.00462	±2.5	PASS
Band II	QPSK	9400	VH	TN	-3.86	-0.00205	±2.5	PASS
Band II	QPSK	9538	VL	TN	-3.68	-0.00193	±2.5	PASS
Band II	QPSK	9538	VN	TN	-7.81	-0.00410	±2.5	PASS
Band II	QPSK	9538	VH	TN	-6.93	-0.00363	±2.5	PASS
Band IV	QPSK	1312	VL	TN	7.60	0.00444	±2.5	PASS
Band IV	QPSK	1312	VN	TN	7.57	0.00442	±2.5	PASS
Band IV	QPSK	1312	VH	TN	-0.60	-0.00035	±2.5	PASS
Band IV	QPSK	1413	VL	TN	3.83	0.00221	±2.5	PASS
Band IV	QPSK	1413	VN	TN	1.93	0.00111	±2.5	PASS
Band IV	QPSK	1413	VH	TN	0.19	0.00011	±2.5	PASS
Band IV	QPSK	1513	VL	TN	-8.16	-0.00466	±2.5	PASS
Band IV	QPSK	1513	VN	TN	-7.65	-0.00437	±2.5	PASS
Band IV	QPSK	1513	VH	TN	4.70	0.00268	±2.5	PASS
Band V	QPSK	4132	VL	TN	4.50	0.00545	±2.5	PASS
Band V	QPSK	4132	VN	TN	6.04	0.00731	±2.5	PASS
Band V	QPSK	4132	VH	TN	5.82	0.00704	±2.5	PASS
Band V	QPSK	4182	VL	TN	-2.81	-0.00336	±2.5	PASS
Band V	QPSK	4182	VN	TN	8.31	0.00993	±2.5	PASS
Band V	QPSK	4182	VH	TN	-3.60	-0.00431	±2.5	PASS
Band V	QPSK	4233	VL	TN	9.92	0.01172	±2.5	PASS
Band V	QPSK	4233	VN	TN	2.15	0.00254	±2.5	PASS
Band V	QPSK	4233	VH	TN	-1.31	-0.00155	±2.5	PASS

8.2 Frequency Error VS. Temperature

BAND	Modulation	Channel	Voltage (Vdc)	Temperature				
				Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	QPSK	9262	VN	-30	-4.82	-0.00260	±2.5	PASS
Band II	QPSK	9262	VN	-20	-4.15	-0.00224	±2.5	PASS
Band II	QPSK	9262	VN	-10	0.12	0.00006	±2.5	PASS
Band II	QPSK	9262	VN	0	-3.69	-0.00199	±2.5	PASS
Band II	QPSK	9262	VN	10	0.28	0.00015	±2.5	PASS
Band II	QPSK	9262	VN	20	-3.60	-0.00194	±2.5	PASS
Band II	QPSK	9262	VN	30	-9.54	-0.00515	±2.5	PASS
Band II	QPSK	9262	VN	40	-7.18	-0.00388	±2.5	PASS
Band II	QPSK	9262	VN	50	0.54	0.00029	±2.5	PASS



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Band II	QPSK	9400	VN	-30	6.71	0.00357	±2.5	PASS
Band II	QPSK	9400	VN	-20	0.82	0.00043	±2.5	PASS
Band II	QPSK	9400	VN	-10	9.23	0.00491	±2.5	PASS
Band II	QPSK	9400	VN	0	-6.07	-0.00323	±2.5	PASS
Band II	QPSK	9400	VN	10	1.57	0.00084	±2.5	PASS
Band II	QPSK	9400	VN	20	2.54	0.00135	±2.5	PASS
Band II	QPSK	9400	VN	30	-2.78	-0.00148	±2.5	PASS
Band II	QPSK	9400	VN	40	1.48	0.00079	±2.5	PASS
Band II	QPSK	9400	VN	50	-7.30	-0.00388	±2.5	PASS
Band II	QPSK	9538	VN	-30	2.46	0.00129	±2.5	PASS
Band II	QPSK	9538	VN	-20	2.26	0.00119	±2.5	PASS
Band II	QPSK	9538	VN	-10	2.17	0.00114	±2.5	PASS
Band II	QPSK	9538	VN	0	-4.25	-0.00223	±2.5	PASS
Band II	QPSK	9538	VN	10	-3.23	-0.00169	±2.5	PASS
Band II	QPSK	9538	VN	20	1.64	0.00086	±2.5	PASS
Band II	QPSK	9538	VN	30	-1.00	-0.00053	±2.5	PASS
Band II	QPSK	9538	VN	40	-1.84	-0.00097	±2.5	PASS
Band II	QPSK	9538	VN	50	-4.43	-0.00232	±2.5	PASS
Band IV	QPSK	1312	VN	-30	0.41	0.00024	±2.5	PASS
Band IV	QPSK	1312	VN	-20	-8.17	-0.00477	±2.5	PASS
Band IV	QPSK	1312	VN	-10	-6.56	-0.00383	±2.5	PASS
Band IV	QPSK	1312	VN	0	-0.21	-0.00012	±2.5	PASS
Band IV	QPSK	1312	VN	10	-7.31	-0.00427	±2.5	PASS
Band IV	QPSK	1312	VN	20	6.17	0.00361	±2.5	PASS
Band IV	QPSK	1312	VN	30	-5.33	-0.00311	±2.5	PASS
Band IV	QPSK	1312	VN	40	-6.73	-0.00393	±2.5	PASS
Band IV	QPSK	1312	VN	50	2.40	0.00140	±2.5	PASS
Band IV	QPSK	1413	VN	-30	4.62	0.00267	±2.5	PASS
Band IV	QPSK	1413	VN	-20	6.32	0.00365	±2.5	PASS
Band IV	QPSK	1413	VN	-10	-5.88	-0.00339	±2.5	PASS
Band IV	QPSK	1413	VN	0	-9.64	-0.00556	±2.5	PASS
Band IV	QPSK	1413	VN	10	-4.94	-0.00285	±2.5	PASS
Band IV	QPSK	1413	VN	20	-0.99	-0.00057	±2.5	PASS
Band IV	QPSK	1413	VN	30	-8.38	-0.00484	±2.5	PASS
Band IV	QPSK	1413	VN	40	6.56	0.00378	±2.5	PASS
Band IV	QPSK	1413	VN	50	0.38	0.00022	±2.5	PASS
Band IV	QPSK	1513	VN	-30	4.60	0.00262	±2.5	PASS
Band IV	QPSK	1513	VN	-20	-7.62	-0.00435	±2.5	PASS
Band IV	QPSK	1513	VN	-10	1.89	0.00108	±2.5	PASS
Band IV	QPSK	1513	VN	0	0.60	0.00034	±2.5	PASS
Band IV	QPSK	1513	VN	10	-1.41	-0.00080	±2.5	PASS
Band IV	QPSK	1513	VN	20	5.78	0.00330	±2.5	PASS
Band IV	QPSK	1513	VN	30	4.44	0.00253	±2.5	PASS
Band IV	QPSK	1513	VN	40	-4.27	-0.00243	±2.5	PASS
Band IV	QPSK	1513	VN	50	-8.24	-0.00470	±2.5	PASS
Band V	QPSK	4132	VN	-30	-5.21	-0.00631	±2.5	PASS
Band V	QPSK	4132	VN	-20	5.25	0.00636	±2.5	PASS



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Band V	QPSK	4132	VN	-10	0.07	0.00008	±2.5	PASS
Band V	QPSK	4132	VN	0	8.59	0.01040	±2.5	PASS
Band V	QPSK	4132	VN	10	-2.14	-0.00259	±2.5	PASS
Band V	QPSK	4132	VN	20	7.63	0.00924	±2.5	PASS
Band V	QPSK	4132	VN	30	-7.07	-0.00855	±2.5	PASS
Band V	QPSK	4132	VN	40	-3.65	-0.00442	±2.5	PASS
Band V	QPSK	4132	VN	50	1.99	0.00241	±2.5	PASS
Band V	QPSK	4182	VN	-30	9.71	0.01161	±2.5	PASS
Band V	QPSK	4182	VN	-20	-0.63	-0.00075	±2.5	PASS
Band V	QPSK	4182	VN	-10	-6.38	-0.00763	±2.5	PASS
Band V	QPSK	4182	VN	0	4.59	0.00548	±2.5	PASS
Band V	QPSK	4182	VN	10	-1.59	-0.00190	±2.5	PASS
Band V	QPSK	4182	VN	20	-9.18	-0.01097	±2.5	PASS
Band V	QPSK	4182	VN	30	-0.98	-0.00117	±2.5	PASS
Band V	QPSK	4182	VN	40	4.48	0.00535	±2.5	PASS
Band V	QPSK	4182	VN	50	-6.56	-0.00784	±2.5	PASS
Band V	QPSK	4233	VN	-30	6.84	0.00808	±2.5	PASS
Band V	QPSK	4233	VN	-20	5.61	0.00663	±2.5	PASS
Band V	QPSK	4233	VN	-10	4.51	0.00532	±2.5	PASS
Band V	QPSK	4233	VN	0	-3.97	-0.00469	±2.5	PASS
Band V	QPSK	4233	VN	10	5.36	0.00633	±2.5	PASS
Band V	QPSK	4233	VN	20	-7.30	-0.00862	±2.5	PASS
Band V	QPSK	4233	VN	30	3.94	0.00465	±2.5	PASS
Band V	QPSK	4233	VN	40	-1.10	-0.00130	±2.5	PASS
Band V	QPSK	4233	VN	50	-2.14	-0.00253	±2.5	PASS

The End



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