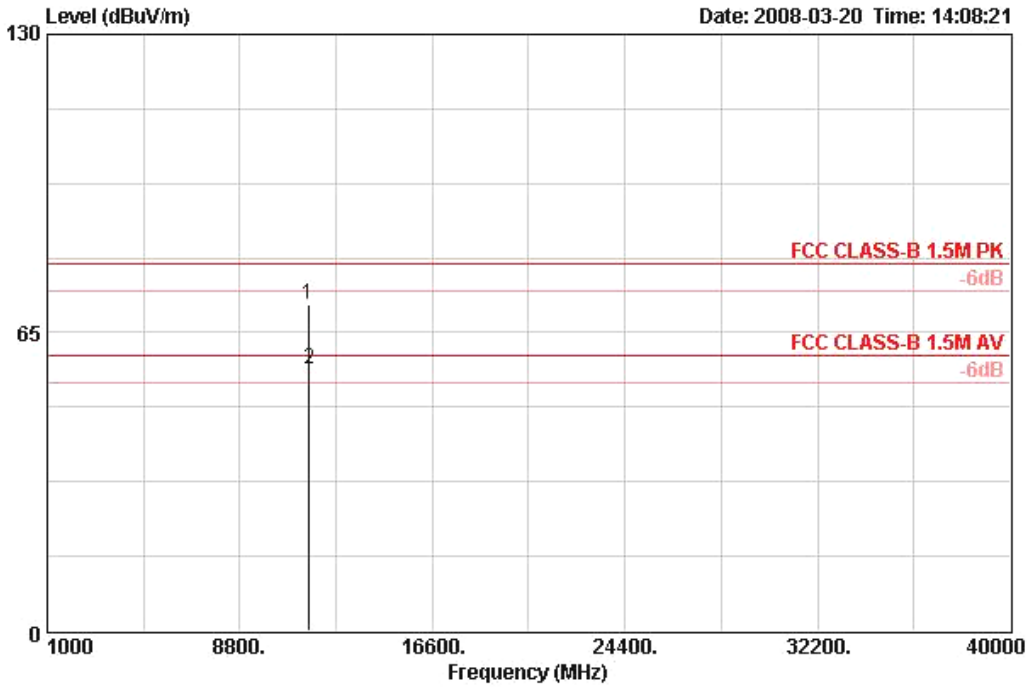
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	11586.500	71.28	-8.72	80.00	57.65	38.83	9.80	35.00	PEAK	124	226	VERTICAL
2 @	11594.900	56.90	-3.10	60.00	43.27	38.83	9.80	35.00	AVERAGE	124	226	VERTICAL

Note:

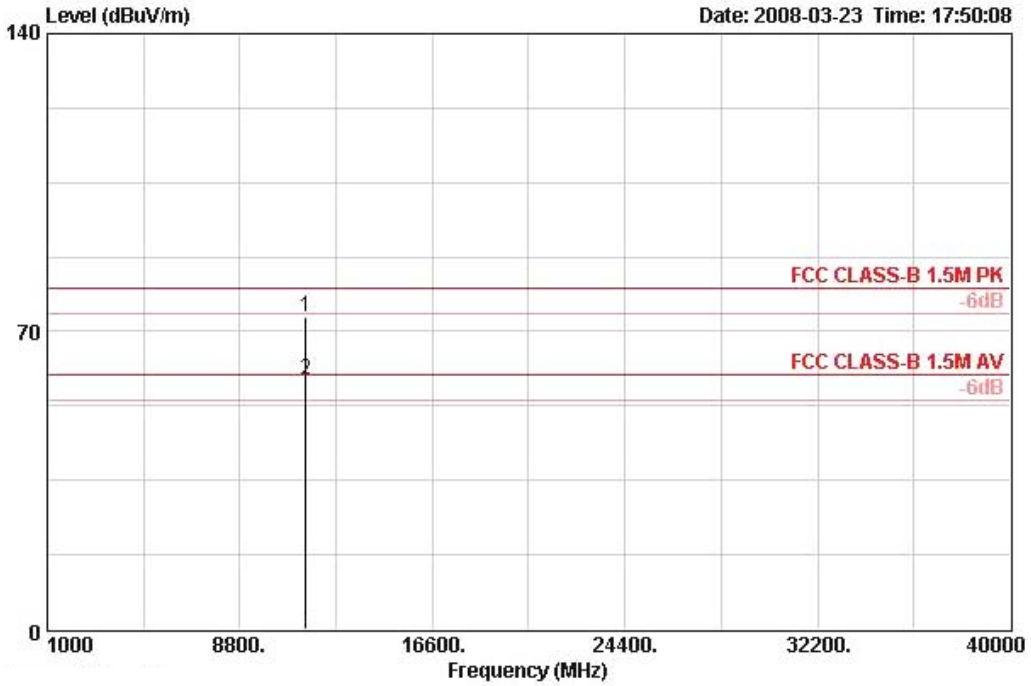
The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

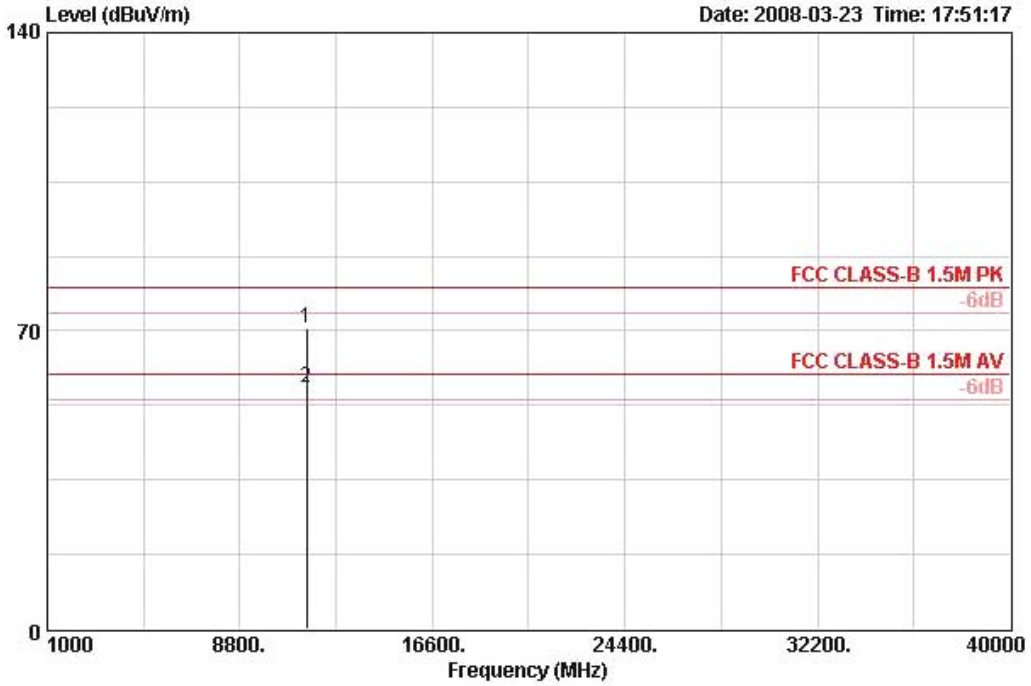
Temperature	23℃	Humidity	62%
Test Engineer	Jax Chen	Configurations	11a Draft n MCS8 20MHz CH 149 Ant. 6

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm	
1	11487.080	73.28	-6.72	80.00	58.64	38.50	34.75	10.90	PEAK	298	100	HORIZONTAL
2 !	11487.920	58.64	-1.36	60.00	43.99	38.50	34.75	10.90	AVERAGE	298	100	HORIZONTAL

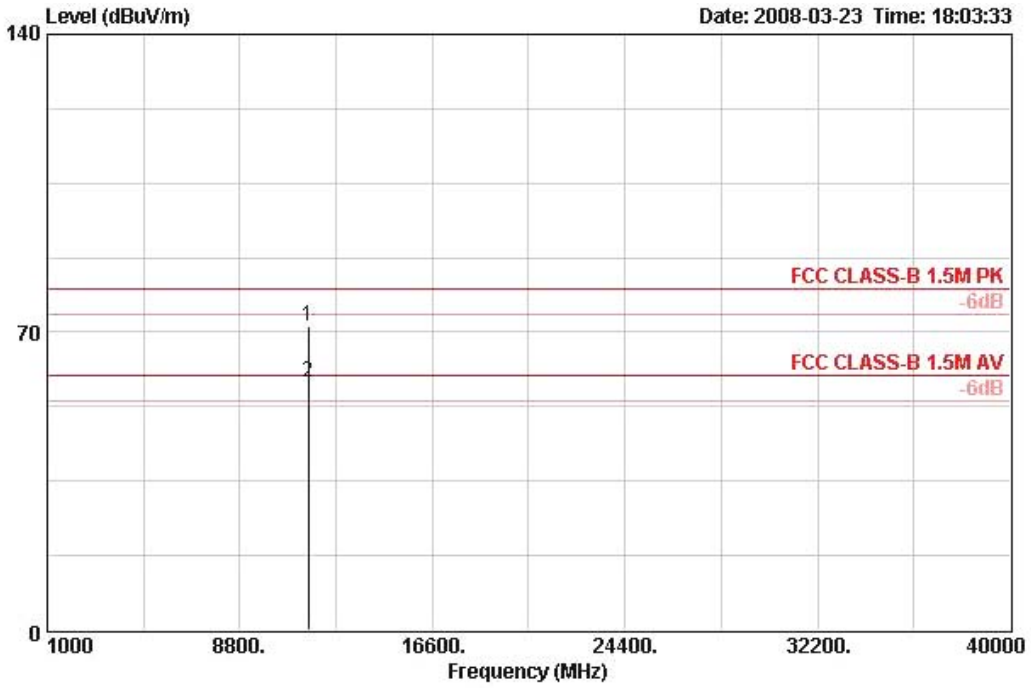
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm	
1	11489.880	70.68	-9.32	80.00	56.03	38.50	34.75	10.90	PEAK	323	105	VERTICAL
2 !	11491.080	56.46	-3.54	60.00	41.81	38.50	34.75	10.90	AVERAGE	302	105	VERTICAL

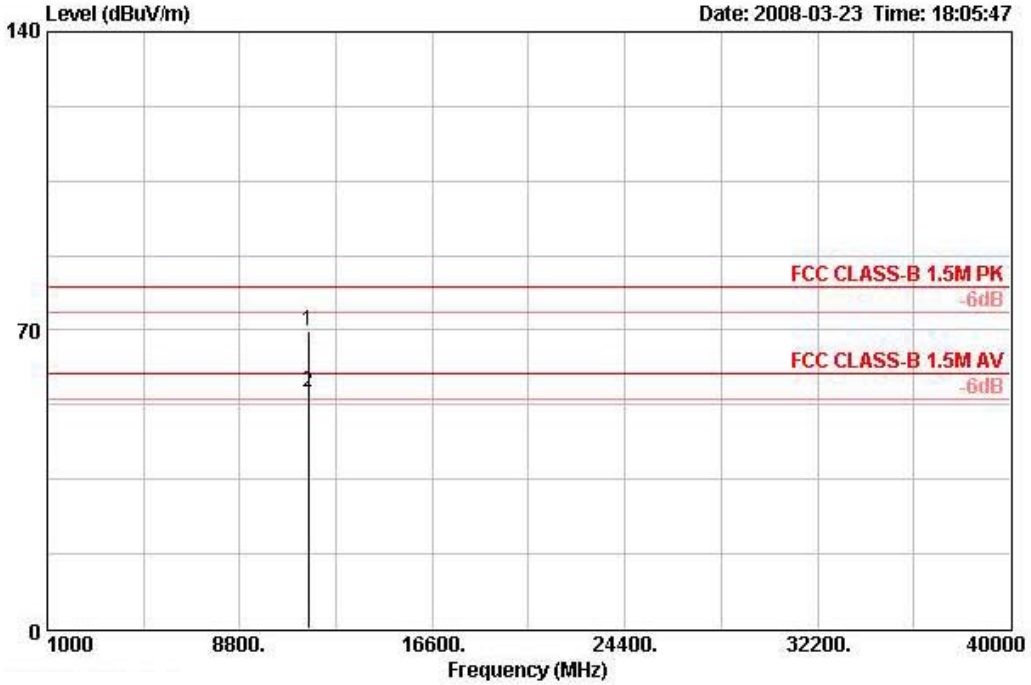
Temperature	23℃	Humidity	62%
Test Engineer	Jax Chen	Configurations	11a Draft n MCS8 20MHz CH 157 Ant. 6

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm	
1	11566.200	71.55	-8.45	80.00	56.97	38.51	34.80	10.86	PEAK	305	100	HORIZONTAL
2	11566.800	58.31	-21.69	80.00	43.73	38.51	34.80	10.86	AVERAGE	305	100	HORIZONTAL

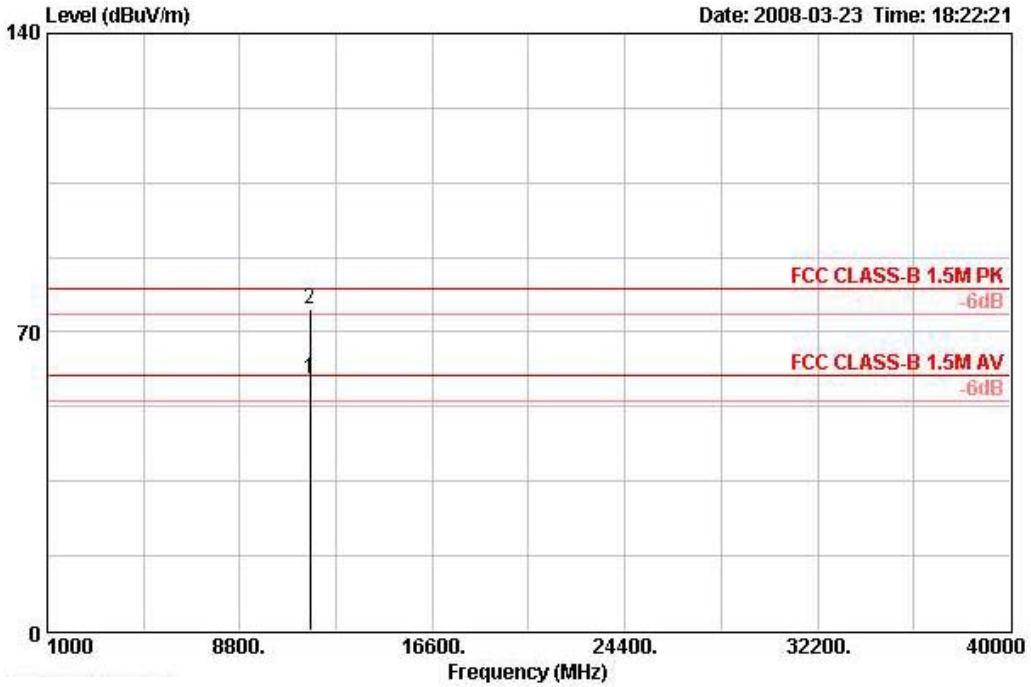
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm	
1	11566.200	69.95	-10.05	80.00	55.37	38.51	34.80	10.86	PEAK	321	100	VERTICAL
2 !	11566.700	55.37	-4.63	60.00	40.79	38.51	34.80	10.86	AVERAGE	321	100	VERTICAL

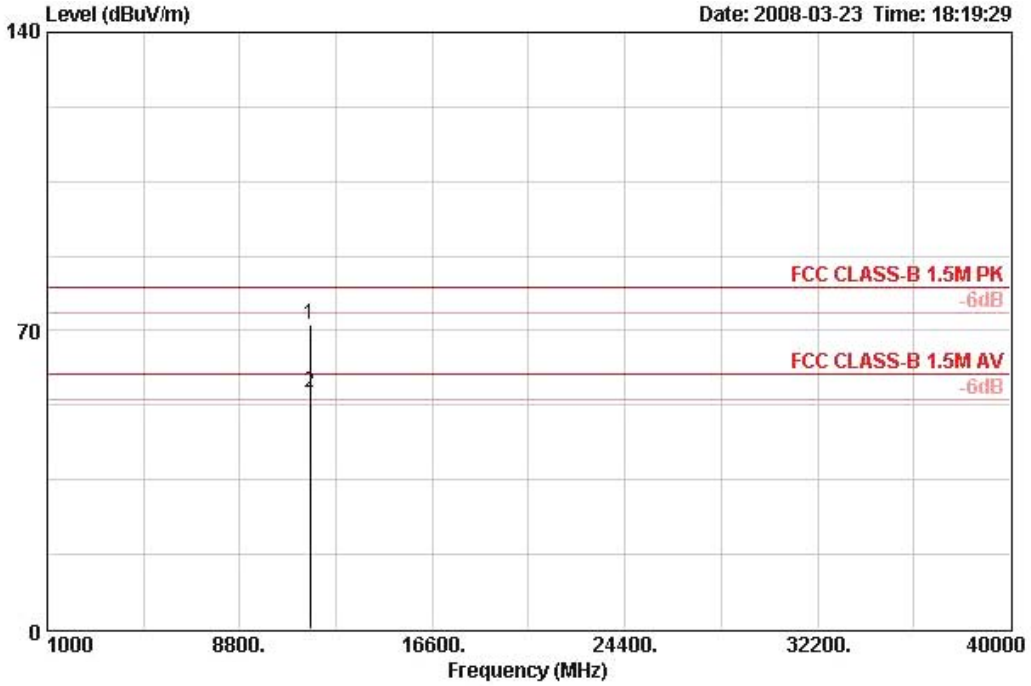
Temperature	23℃	Humidity	62%
Test Engineer	Jax Chen	Configurations	11a Draft n MCS8 20MHz CH 165 Ant. 6

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm	
1 !	11655.800	59.19	-0.81	60.00	44.83	38.53	34.90	10.72	AVERAGE	301	100	HORIZONTAL
2 !	11657.100	75.23	-4.77	80.00	60.87	38.53	34.90	10.72	PEAK	301	100	HORIZONTAL

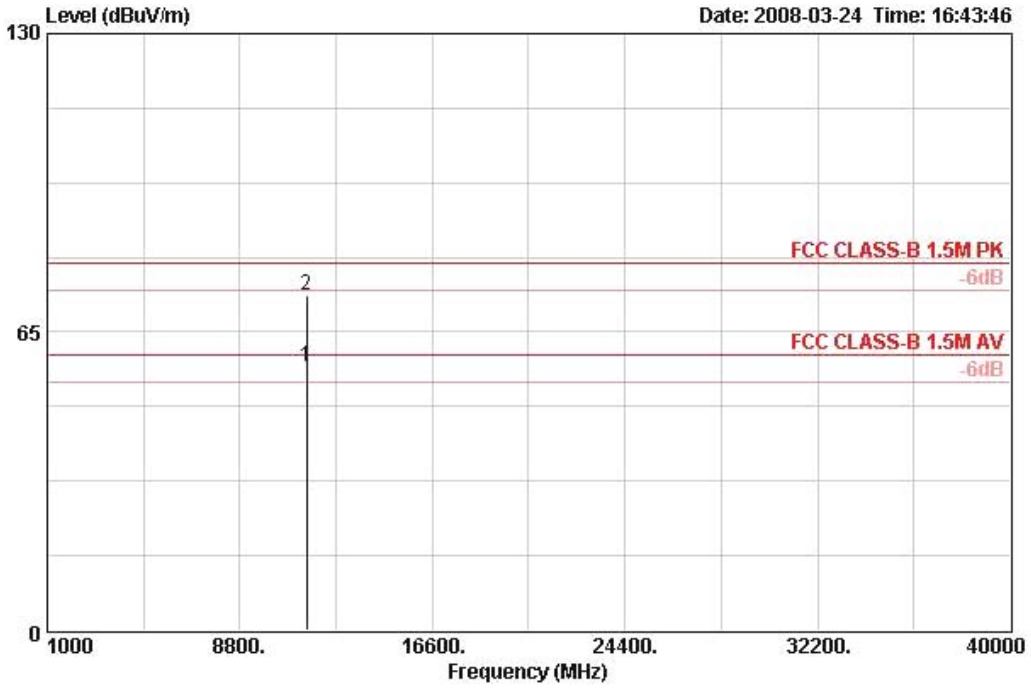
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm	
1	11649.800	71.32	-8.68	80.00	56.96	38.53	34.90	10.72	PEAK	43	100	VERTICAL
2 !	11650.300	55.52	-4.48	60.00	41.16	38.53	34.90	10.72	AVERAGE	43	100	VERTICAL

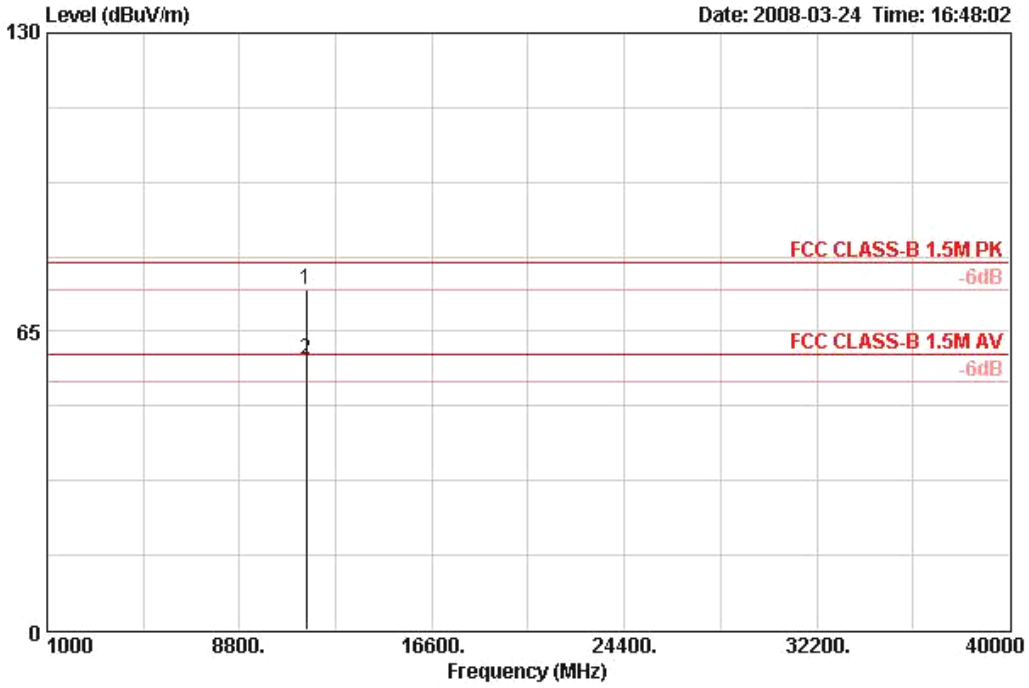
Temperature	23℃	Humidity	62%
Test Engineer	Jax Chen	Configurations	11a Draft n MCS8 40MHz CH 151 Ant. 6

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 !	11497.600	57.40	-2.60	60.00	43.81	38.80	9.78	35.00	AVERAGE	115	169	HORIZONTAL
2	11506.400	73.11	-6.89	80.00	59.52	38.80	9.78	35.00	PEAK	115	169	HORIZONTAL

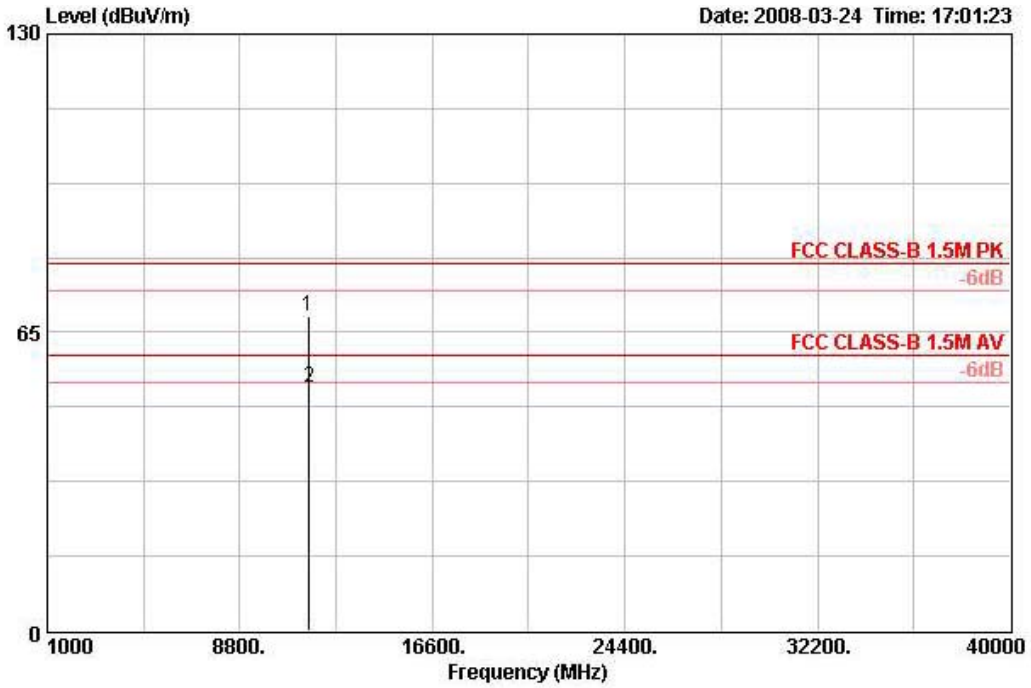
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 !	11506.500	74.21	-5.79	80.00	60.62	38.80	9.78	35.00	PEAK	127	91	VERTICAL
2 !	11507.900	58.90	-1.10	60.00	45.32	38.80	9.78	35.00	AVERAGE	127	91	VERTICAL

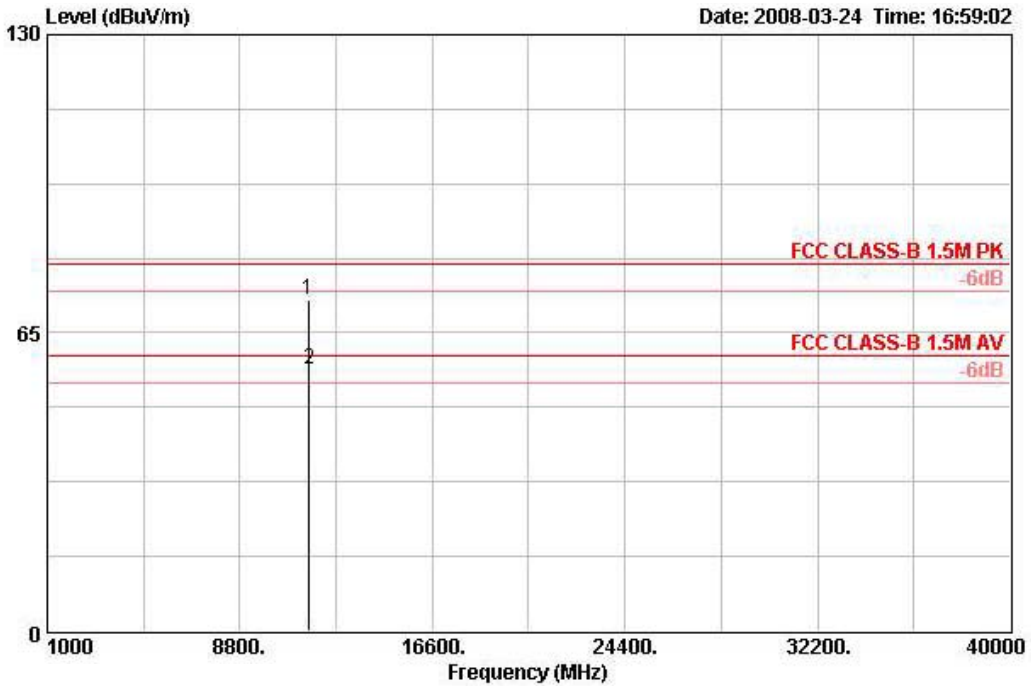
Temperature	23℃	Humidity	62%
Test Engineer	Jax Chen	Configurations	11a Draft n MCS8 40MHz CH 159 Ant. 6

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	11586.500	68.66	-11.34	80.00	55.03	38.83	9.80	35.00	PEAK	130	114	HORIZONTAL
2	11598.000	53.02	-6.98	60.00	39.38	38.83	9.81	35.01	AVERAGE	130	114	HORIZONTAL

Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	11586.500	72.29	-7.71	80.00	58.66	38.83	9.80	35.00	PEAK	125	90	VERTICAL
2 !	11595.300	56.98	-3.02	60.00	43.35	38.83	9.81	35.01	AVERAGE	125	90	VERTICAL

Note:

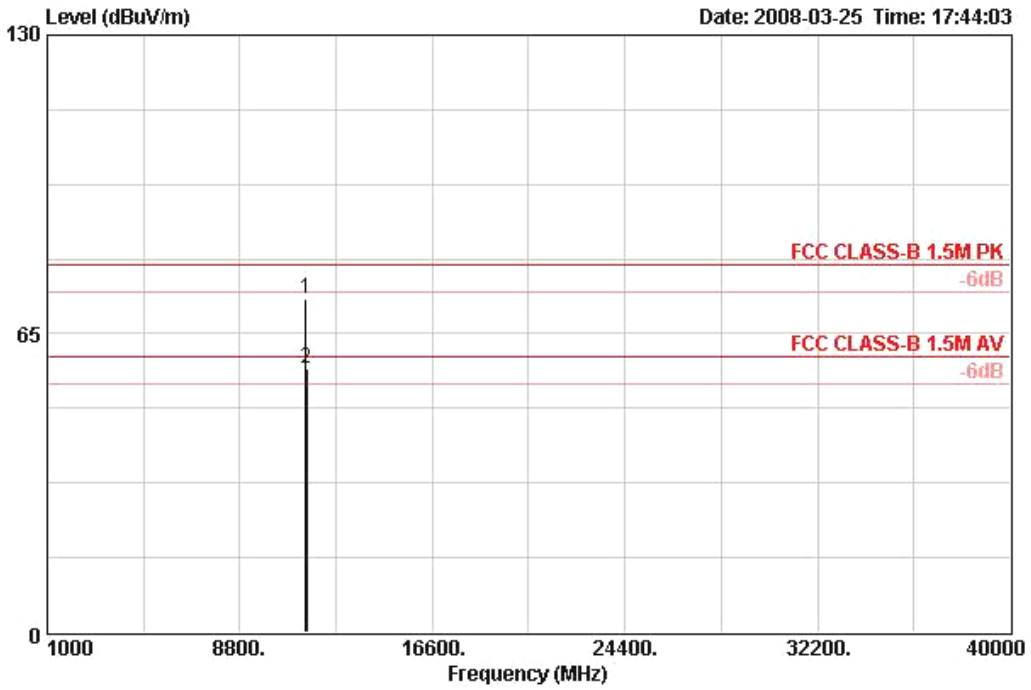
The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

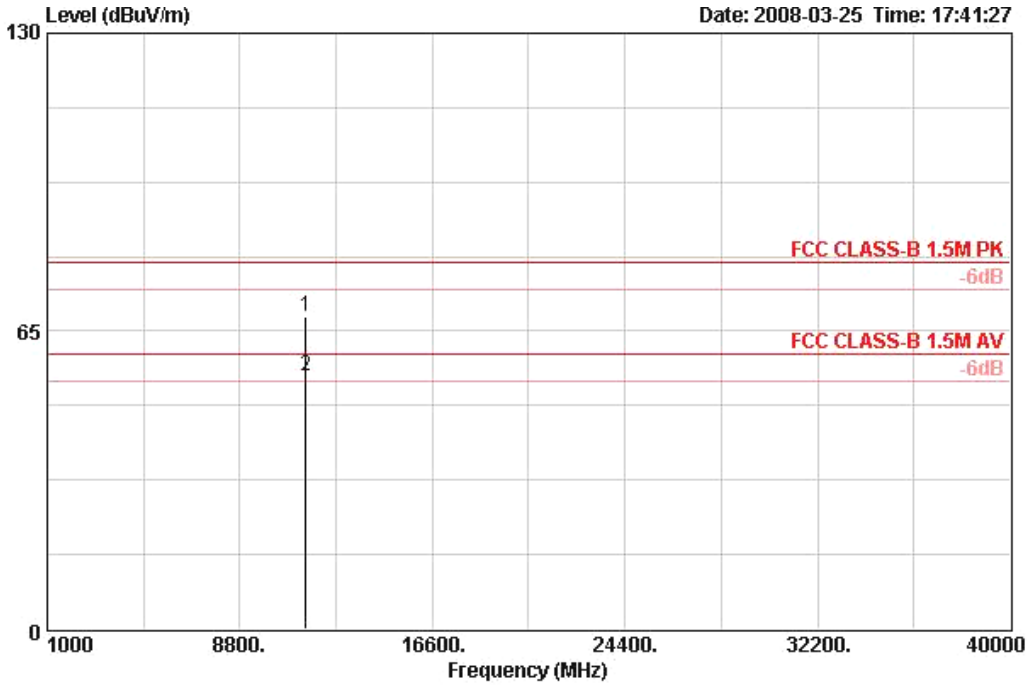
Temperature	23℃	Humidity	62%
Test Engineer	Jax Chen	Configurations	11a Draft n MCS8 20MHz CH 149 Ant. 7

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	11486.400	72.70	-7.30	80.00	59.12	38.78	9.78	34.98	PEAK	141	103	HORIZONTAL
2 @	11494.680	57.48	-2.52	60.00	43.91	38.78	9.78	35.00	AVERAGE	141	103	HORIZONTAL

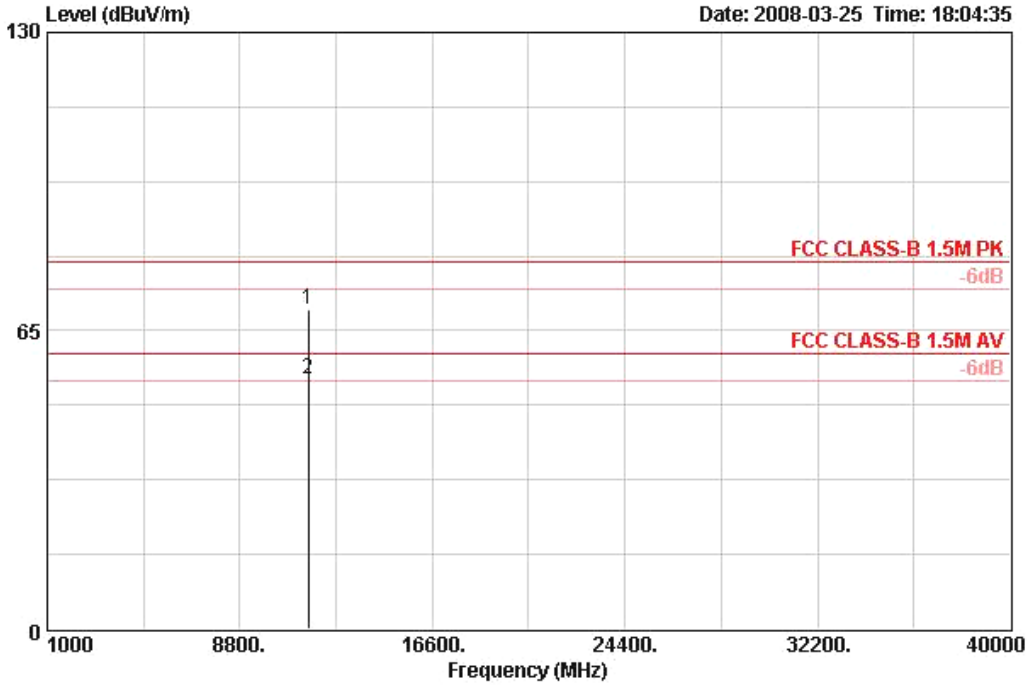
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	11486.520	68.17	-11.83	80.00	54.60	38.78	9.78	34.98	PEAK	107	193	VERTICAL
2 @	11487.960	55.10	-4.90	60.00	41.53	38.78	9.78	34.98	AVERAGE	107	193	VERTICAL

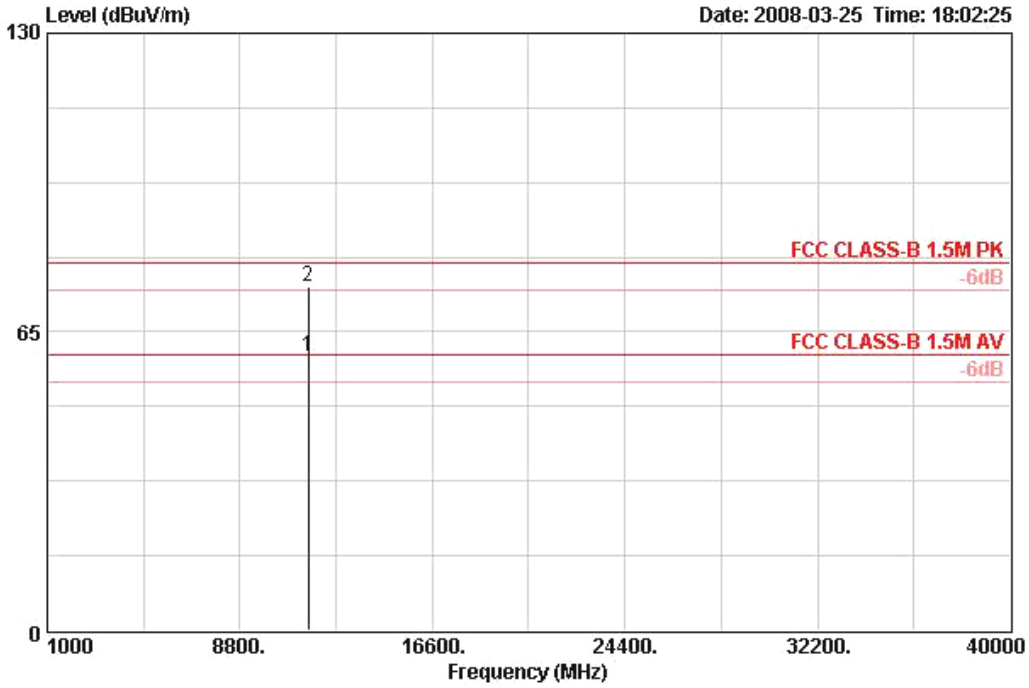
Temperature	23℃	Humidity	62%
Test Engineer	Jax Chen	Configurations	11a Draft n MCS8 20MHz CH 157 Ant. 7

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	11566.360	69.56	-10.44	80.00	55.94	38.83	9.79	35.00	PEAK	124	278	HORIZONTAL
2 @	11567.320	54.57	-5.43	60.00	40.95	38.83	9.79	35.00	AVERAGE	124	278	HORIZONTAL

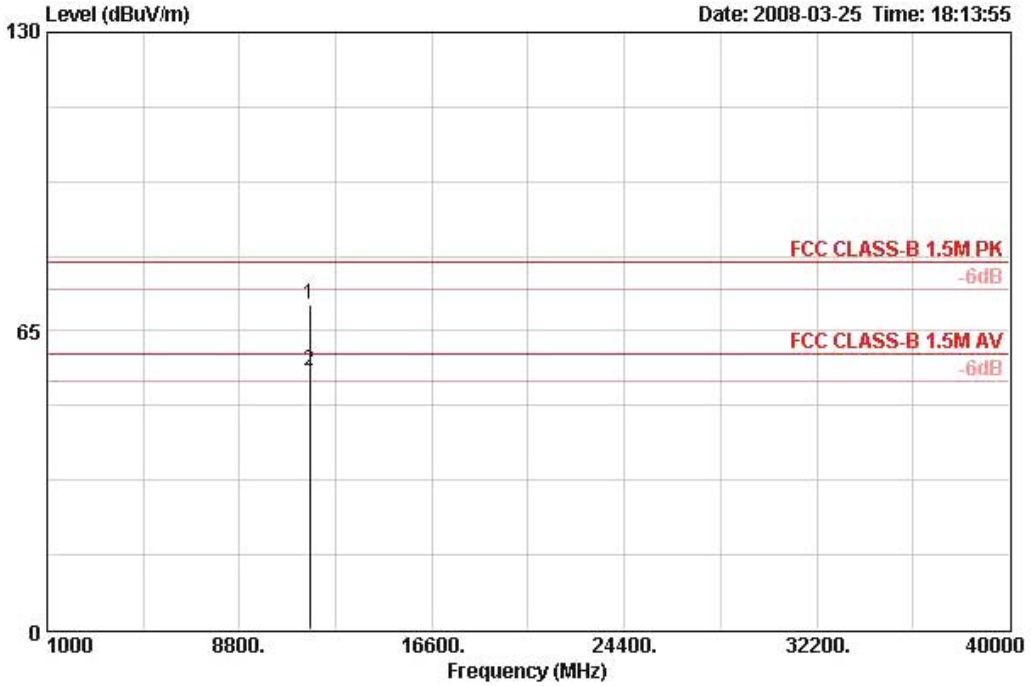
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	11565.720	59.69	-0.31	60.00	46.07	38.83	9.79	35.00	AVERAGE	122	38	VERTICAL
2 @	11566.400	74.94	-5.06	80.00	61.32	38.83	9.79	35.00	PEAK	122	38	VERTICAL

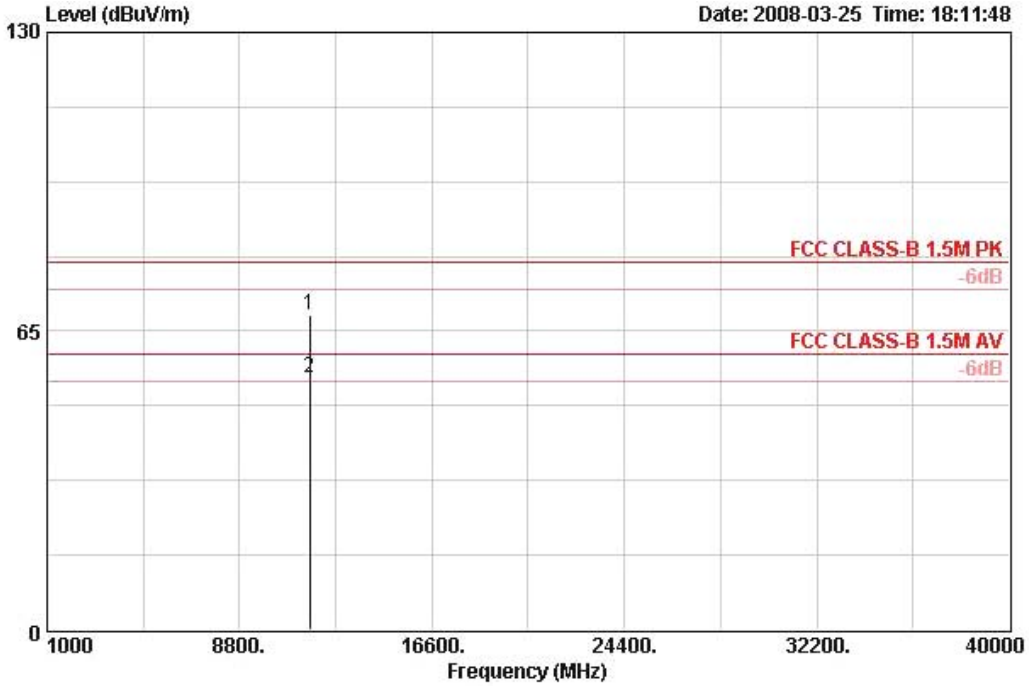
Temperature	23℃	Humidity	62%
Test Engineer	Jax Chen	Configurations	11a Draft n MCS8 20MHz CH 165 Ant. 7

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	11646.500	70.57	-9.43	80.00	56.90	38.86	9.82	35.01	PEAK	142	72	HORIZONTAL
2 @	11648.100	56.13	-3.87	60.00	42.47	38.86	9.82	35.01	AVERAGE	142	72	HORIZONTAL

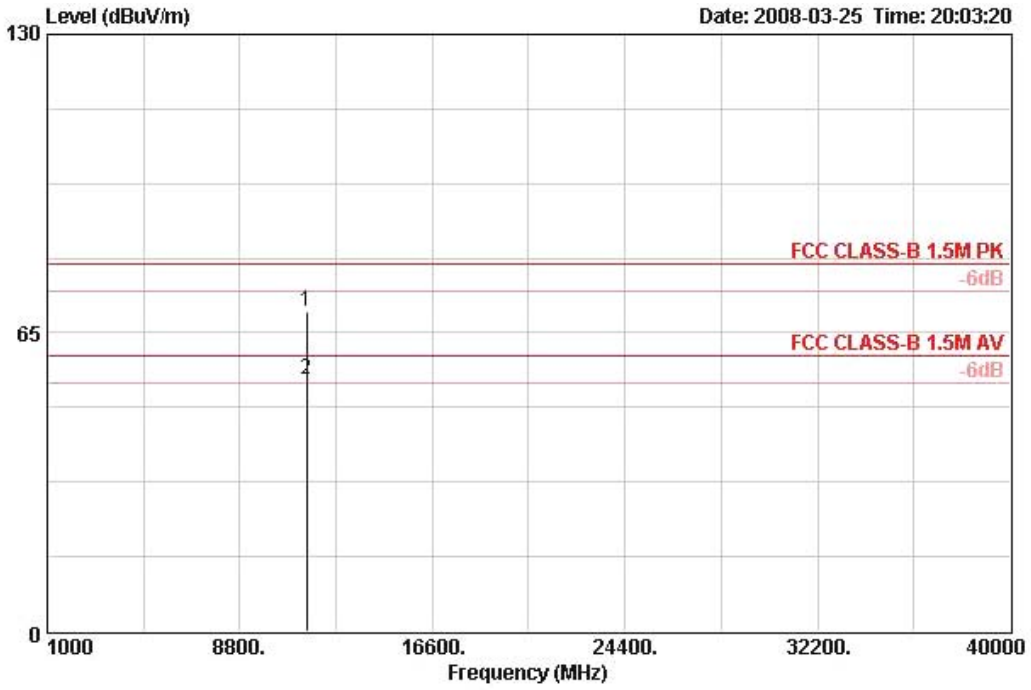
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	11649.900	68.59	-11.41	80.00	54.93	38.86	9.82	35.01	PEAK	100	196	VERTICAL
2 @	11650.800	54.83	-5.17	60.00	41.15	38.86	9.82	35.01	AVERAGE	100	196	VERTICAL

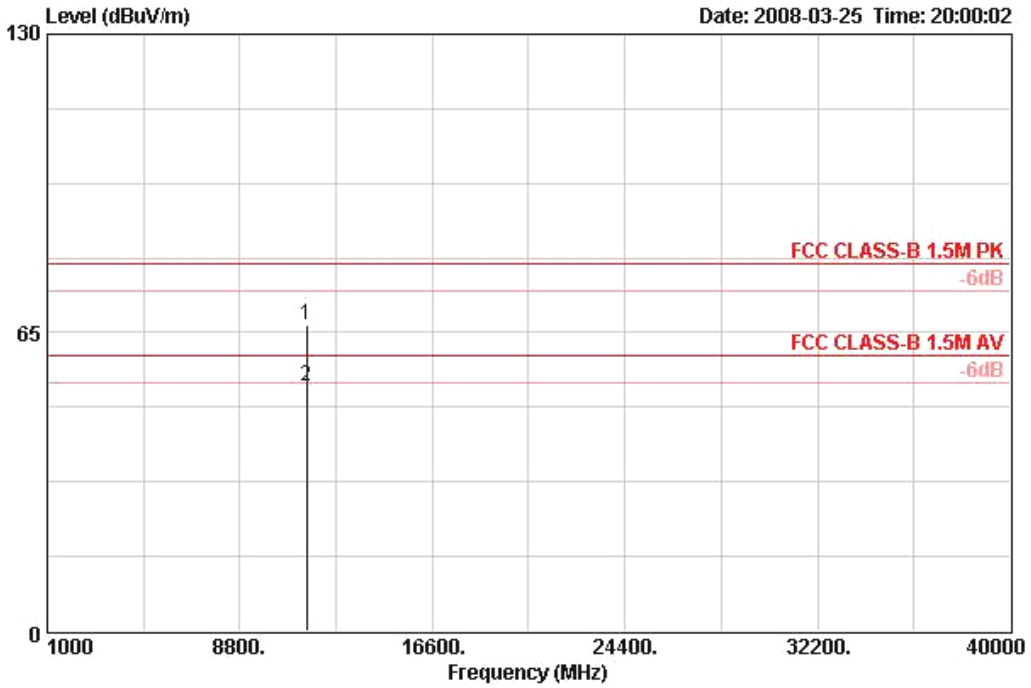
Temperature	23℃	Humidity	62%
Test Engineer	Jax Chen	Configurations	11a Draft n MCS8 40MHz CH 151 Ant. 7

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	11506.440	69.70	-10.30	80.00	56.11	38.80	9.78	35.00	PEAK	140	73	HORIZONTAL
2 @	11516.360	54.67	-5.33	60.00	41.08	38.81	9.78	35.00	AVERAGE	140	73	HORIZONTAL

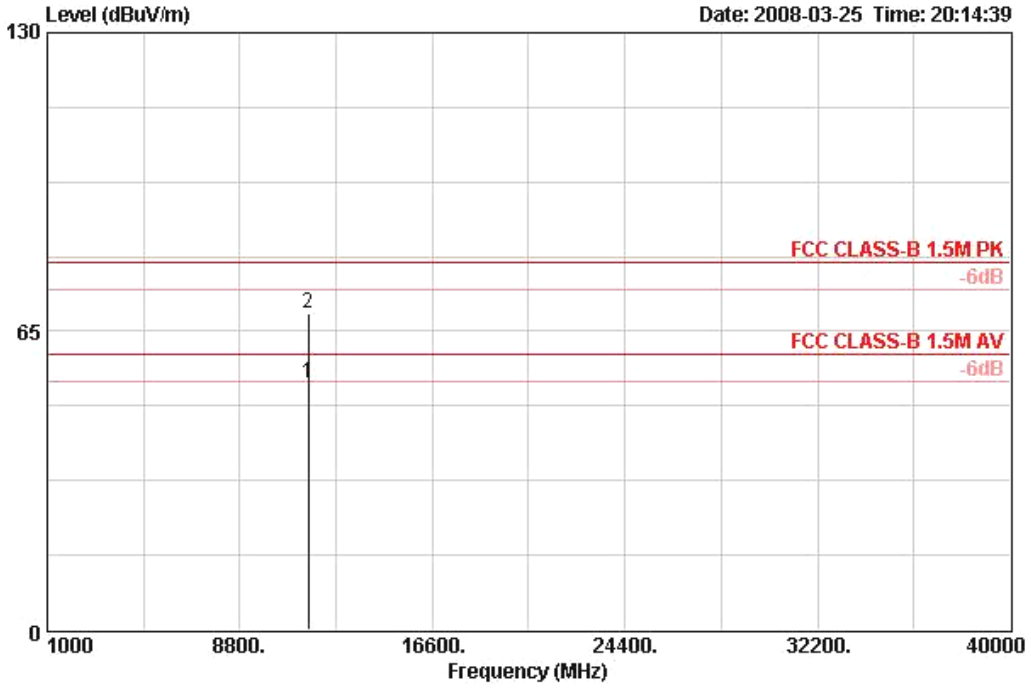
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	11506.700	66.78	-13.22	80.00	53.19	38.80	9.78	35.00	PEAK	108	199	VERTICAL
2 @	11507.900	53.35	-6.65	60.00	39.77	38.80	9.78	35.00	AVERAGE	108	199	VERTICAL

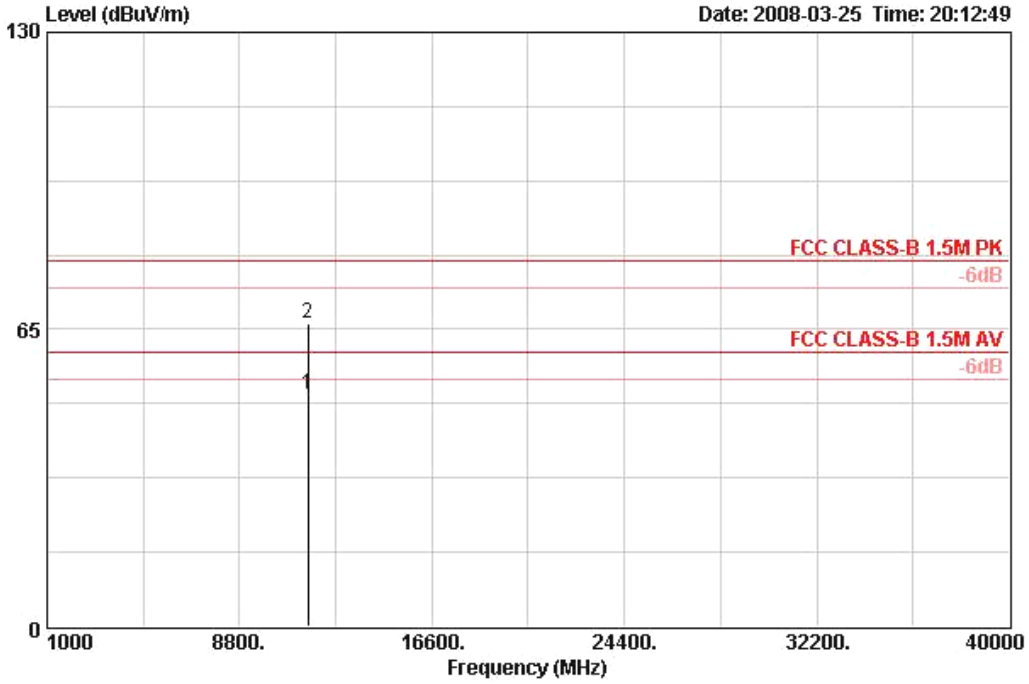
Temperature	23℃	Humidity	62%
Test Engineer	Jax Chen	Configurations	11a Draft n MCS8 40MHz CH 159 Ant. 7

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	11578.300	53.85	-6.15	60.00	40.23	38.83	9.80	35.00	AVERAGE	147	71	HORIZONTAL
2 @	11586.400	68.70	-11.30	80.00	55.07	38.83	9.80	35.00	PEAK	147	71	HORIZONTAL

Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	11589.500	50.92	-9.08	60.00	37.28	38.83	9.80	35.00	AVERAGE	130	198	VERTICAL
2 @	11590.000	66.39	-13.61	80.00	52.76	38.83	9.80	35.00	PEAK	130	198	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

4.6. Band Edge Emissions Measurement

4.6.1. Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

4.6.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	100 MHz
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	100 KHz /100 KHz for Peak

4.6.3. Test Procedures

1. The test procedure is the same as section 4.5.3, only the freqeuncy range investigated is limited to 100MHz around bandedges.
2. In case the emission is fail due to the used RB/VB is too wide, marker-delta method of FCC Public Notice DA00-705 will be followed.

4.6.4. Test Setup Layout

This test setup layout is the same as that shown in section 4.5.4.

4.6.5. Test Deviation

There is no deviation with the original standard.

4.6.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.6.7. Test Result of Band Edge and Fundamental Emissions

Temperature	23℃	Humidity	62%
Test Engineer	Sam Chen	Configurations	Draft n MCS8 20MHz Ch 1, 6, 11 Ant. 1

Channel 1

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	2389.000	68.38	-5.62	74.00	36.08	28.17	4.13	0.00	PEAK	100	196	VERTICAL
2 @	2390.000	53.03	-0.97	54.00	20.70	28.17	4.15	0.00	AVERAGE	100	196	VERTICAL
3 @	2409.000	102.75			70.39	28.21	4.15	0.00	AVERAGE	100	196	VERTICAL
4 @	2414.200	113.97			81.60	28.21	4.15	0.00	PEAK	100	196	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz

Channel 6

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	2388.200	65.00	-9.00	74.00	32.70	28.17	4.13	0.00	PEAK	106	187	VERTICAL
2 @	2390.000	53.26	-0.74	54.00	20.93	28.17	4.15	0.00	AVERAGE	106	187	VERTICAL
3 @	2435.600	109.23			76.80	28.25	4.18	0.00	AVERAGE	106	187	VERTICAL
4 @	2441.600	120.27			87.78	28.29	4.20	0.00	PEAK	106	187	VERTICAL

Item 3, 4 are the fundamental frequency at 2437MHz.

Channel 11

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	2456.000	116.30			83.77	28.32	4.20	0.00	PEAK	104	185	VERTICAL
2 @	2458.400	104.89			72.36	28.32	4.20	0.00	AVERAGE	104	185	VERTICAL
3 @	2483.500	53.80	-0.20	54.00	21.22	28.36	4.23	0.00	AVERAGE	104	185	VERTICAL
4 @	2483.500	67.12	-6.88	74.00	34.54	28.36	4.23	0.00	PEAK	104	185	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	23℃	Humidity	62%
Test Engineer	Sam Chen	Configurations	Draft n MCS8 40MHz Ch 3, 6, 9 Ant. 1

Channel 3

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	2390.000	53.30	-0.70	54.00	20.98	28.17	4.15	0.00	AVERAGE	104	245	VERTICAL
2 @	2390.000	68.87	-5.13	74.00	36.54	28.17	4.15	0.00	PEAK	104	245	VERTICAL
3 @	2406.800	95.44			63.07	28.21	4.15	0.00	AVERAGE	104	245	VERTICAL
4 @	2411.600	106.71			74.34	28.21	4.15	0.00	PEAK	104	245	VERTICAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

Channel 6

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	2388.400	67.42	-6.58	74.00	35.11	28.17	4.13	0.00	PEAK	100	255	VERTICAL
2 @	2390.000	53.69	-0.31	54.00	21.36	28.17	4.15	0.00	AVERAGE	100	255	VERTICAL
3 @	2419.800	95.79			63.36	28.25	4.18	0.00	AVERAGE	100	255	VERTICAL
4 @	2425.000	107.90			75.47	28.25	4.18	0.00	PEAK	100	255	VERTICAL

Item 3, 4 are the fundamental frequency at 2437MHz.

Channel 9

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	2440.400	99.43			66.96	28.29	4.18	0.00	AVERAGE	104	188	VERTICAL
2 @	2441.600	111.82			79.33	28.29	4.20	0.00	PEAK	104	188	VERTICAL
3 @	2483.500	53.93	-0.07	54.00	21.34	28.36	4.23	0.00	AVERAGE	104	188	VERTICAL
4 @	2483.500	73.11	-0.89	74.00	40.52	28.36	4.23	0.00	PEAK	104	188	VERTICAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Temperature	23℃	Humidity	62%
Test Engineer	Jax Chen	Configurations	11a Draft n MCS8 20MHz CH 149, 157, 165 Ant. 1

Channel 149

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	5743.200	118.91			77.72	34.35	6.84	0.00	AVERAGE	128	204	VERTICAL
2	5747.400	131.54			90.36	34.35	6.84	0.00	PEAK	128	204	VERTICAL

Item 1, 2 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	5780.400	117.22			76.01	34.36	6.85	0.00	AVERAGE	129	221	VERTICAL
2	5782.000	128.54			87.33	34.36	6.86	0.00	PEAK	129	221	VERTICAL

Item 1, 2 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	5823.400	116.89			75.65	34.37	6.88	0.00	AVERAGE	129	217	VERTICAL
2	5824.600	127.67			86.43	34.37	6.88	0.00	PEAK	129	217	VERTICAL

Item 1, 2 are the fundamental frequency at 5825 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Temperature	23℃	Humidity	62%
Test Engineer	Jax Chen	Configurations	11a Draft n MCS8 40MHz CH 151, 159 Ant. 1

Channel 151

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	5758.200	124.74			83.54	34.35	6.85	0.00	PEAK	126	316	VERTICAL
2 @	5759.000	115.37			74.17	34.35	6.85	0.00	AVERAGE	126	316	VERTICAL

Item 1, 2 are the fundamental frequency at 5755 MHz.

Channel 159

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	5801.000	114.62			73.40	34.36	6.86	0.00	AVERAGE	125	219	VERTICAL
2	5810.200	126.49			85.26	34.36	6.88	0.00	PEAK	125	219	VERTICAL

Item 1, 2 are the fundamental frequency at 5795 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Temperature	23℃	Humidity	62%
Test Engineer	Sam Chen	Configurations	Draft n MCS8 20MHz Ch 1, 6, 11 Ant. 2

Channel 1

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	2389.600	67.03	-6.97	74.00	34.73	28.17	4.13	0.00	PEAK	126	268	VERTICAL
2 @	2390.000	53.76	-0.24	54.00	21.43	28.17	4.15	0.00	AVERAGE	126	268	VERTICAL
3 @	2406.200	115.05			82.68	28.21	4.15	0.00	PEAK	126	268	VERTICAL
4 @	2410.800	103.32			70.95	28.21	4.15	0.00	AVERAGE	126	268	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz

Channel 6

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	2388.200	66.97	-7.03	74.00	34.67	28.17	4.13	0.00	PEAK	124	268	VERTICAL
2 @	2388.400	53.20	-0.80	54.00	20.90	28.17	4.13	0.00	AVERAGE	124	268	VERTICAL
3 @	2433.800	115.82			83.40	28.25	4.18	0.00	PEAK	124	268	VERTICAL
4 @	2435.000	103.65			71.22	28.25	4.18	0.00	AVERAGE	124	268	VERTICAL

Item 3, 4 are the fundamental frequency at 2437MHz.

Channel 11

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	2461.400	115.10			82.57	28.32	4.20	0.00	PEAK	147	295	VERTICAL
2 @	2465.200	103.17			70.64	28.32	4.20	0.00	AVERAGE	147	295	VERTICAL
3 @	2483.500	53.42	-0.58	54.00	20.83	28.36	4.23	0.00	AVERAGE	147	295	VERTICAL
4 @	2483.500	67.06	-6.94	74.00	34.47	28.36	4.23	0.00	PEAK	147	295	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	23℃	Humidity	62%
Test Engineer	Sam Chen	Configurations	Draft n MCS8 40MHz Ch 3, 6, 9 Ant. 2

Channel 3

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	2390.000	53.35	-0.65	54.00	21.02	28.17	4.15	0.00	AVERAGE	122	272	VERTICAL
2 @	2390.000	69.69	-4.31	74.00	37.36	28.17	4.15	0.00	PEAK	122	272	VERTICAL
3 @	2407.200	108.97			76.61	28.21	4.15	0.00	PEAK	122	272	VERTICAL
4 @	2407.200	96.36			63.99	28.21	4.15	0.00	AVERAGE	122	272	VERTICAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

Channel 6

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	2385.600	66.23	-7.77	74.00	33.93	28.17	4.13	0.00	PEAK	129	266	VERTICAL
2 @	2390.000	53.63	-0.37	54.00	21.31	28.17	4.15	0.00	AVERAGE	129	266	VERTICAL
3 @	2419.400	110.58			78.19	28.21	4.18	0.00	PEAK	129	266	VERTICAL
4 @	2420.200	98.29			65.87	28.25	4.18	0.00	AVERAGE	129	266	VERTICAL

Item 3, 4 are the fundamental frequency at 2437MHz.

Channel 9

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	2466.400	96.63			64.08	28.32	4.23	0.00	AVERAGE	140	298	VERTICAL
2 @	2470.000	109.01			76.46	28.32	4.23	0.00	PEAK	140	298	VERTICAL
3 @	2483.500	53.57	-0.43	54.00	20.99	28.36	4.23	0.00	AVERAGE	140	298	VERTICAL
4 @	2484.300	71.10	-2.90	74.00	38.51	28.36	4.23	0.00	PEAK	140	298	VERTICAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Temperature	23℃	Humidity	62%
Test Engineer	Sam Chen	Configurations	Draft n MCS8 20MHz Ch 1, 6, 11 Ant. 3

Channel 1

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	2389.600	69.67	-4.33	74.00	37.36	28.17	4.13	0.00	PEAK	128	320	VERTICAL
2 @	2390.000	53.63	-0.37	54.00	21.30	28.17	4.15	0.00	AVERAGE	128	320	VERTICAL
3 @	2406.200	112.77			80.41	28.21	4.15	0.00	PEAK	128	320	VERTICAL
4 @	2408.400	100.84			68.47	28.21	4.15	0.00	AVERAGE	128	320	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz

Channel 6

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	2389.000	66.23	-7.77	74.00	33.93	28.17	4.13	0.00	PEAK	132	331	VERTICAL
2 @	2390.000	53.52	-0.48	54.00	21.19	28.17	4.15	0.00	AVERAGE	132	331	VERTICAL
3 @	2437.600	103.22			70.76	28.29	4.18	0.00	AVERAGE	132	331	VERTICAL
4 @	2442.200	115.15			82.66	28.29	4.20	0.00	PEAK	132	331	VERTICAL

Item 3, 4 are the fundamental frequency at 2437MHz.

Channel 11

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	2465.800	100.96			68.44	28.32	4.20	0.00	AVERAGE	123	321	VERTICAL
2 @	2467.200	114.28			81.73	28.32	4.23	0.00	PEAK	123	321	VERTICAL
3 @	2483.500	53.79	-0.21	54.00	21.20	28.36	4.23	0.00	AVERAGE	123	321	VERTICAL
4 @	2484.100	68.36	-5.64	74.00	35.77	28.36	4.23	0.00	PEAK	123	321	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	23℃	Humidity	62%
Test Engineer	Sam Chen	Configurations	Draft n MCS8 40MHz Ch 3, 6, 9 Ant. 3

Channel 3

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	2390.000	53.07	-0.93	54.00	20.74	28.17	4.15	0.00	AVERAGE	107	316	VERTICAL
2 @	2390.000	67.71	-6.29	74.00	35.38	28.17	4.15	0.00	PEAK	107	316	VERTICAL
3 @	2404.800	105.86			73.50	28.21	4.15	0.00	PEAK	107	316	VERTICAL
4 @	2405.600	94.46			62.09	28.21	4.15	0.00	AVERAGE	107	316	VERTICAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

Channel 6

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	2388.400	65.83	-8.17	74.00	33.53	28.17	4.13	0.00	PEAK	104	317	VERTICAL
2 @	2390.000	53.63	-0.37	54.00	21.31	28.17	4.15	0.00	AVERAGE	104	317	VERTICAL
3 @	2443.000	96.13			63.64	28.29	4.20	0.00	AVERAGE	104	317	VERTICAL
4 @	2449.800	108.95			76.46	28.29	4.20	0.00	PEAK	104	317	VERTICAL

Item 3, 4 are the fundamental frequency at 2437MHz.

Channel 9

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	2438.800	94.24			61.77	28.29	4.18	0.00	AVERAGE	121	321	VERTICAL
2 @	2442.000	107.00			74.51	28.29	4.20	0.00	PEAK	121	321	VERTICAL
3 @	2483.500	53.46	-0.54	54.00	20.87	28.36	4.23	0.00	AVERAGE	121	321	VERTICAL
4 @	2483.500	69.15	-4.85	74.00	36.56	28.36	4.23	0.00	PEAK	121	321	VERTICAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Temperature	23℃	Humidity	62%
Test Engineer	Sam Chen	Configurations	Draft n MCS8 20MHz Ch 1, 6, 11 Ant. 4

Channel 1

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 !	2387.400	69.32	-4.68	74.00	38.92	28.05	2.35	0.00	PEAK	162	357	HORIZONTAL
2 !	2390.000	53.18	-0.82	54.00	22.76	28.05	2.36	0.00	AVERAGE	162	357	HORIZONTAL
3	2408.200	108.92			78.46	28.09	2.36	0.00	PEAK	162	357	HORIZONTAL
4	2410.400	98.49			68.03	28.09	2.36	0.00	AVERAGE	162	357	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz

Channel 6

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	2388.800	63.36	-10.64	74.00	32.96	28.05	2.35	0.00	PEAK	127	359	HORIZONTAL
2 !	2390.000	48.30	-5.70	54.00	17.88	28.05	2.36	0.00	AVERAGE	127	359	HORIZONTAL
3	2435.200	108.21			77.69	28.13	2.38	0.00	PEAK	127	359	HORIZONTAL
4	2438.600	102.07			71.51	28.18	2.38	0.00	AVERAGE	127	359	HORIZONTAL
5 !	2483.500	52.48	-1.52	54.00	21.81	28.26	2.41	0.00	AVERAGE	127	359	HORIZONTAL
6	2483.500	67.51	-6.49	74.00	36.84	28.26	2.41	0.00	PEAK	127	359	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437MHz.

Channel 11

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	2457.000	107.01			76.40	28.22	2.40	0.00	PEAK	127	357	HORIZONTAL
2	2458.200	95.78			65.17	28.22	2.40	0.00	AVERAGE	127	357	HORIZONTAL
3 !	2483.500	53.01	-0.99	54.00	22.34	28.26	2.41	0.00	AVERAGE	127	357	HORIZONTAL
4 !	2484.100	70.92	-3.08	74.00	40.25	28.26	2.41	0.00	PEAK	127	357	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	23℃	Humidity	62%
Test Engineer	Sam Chen	Configurations	Draft n MCS8 40MHz Ch 3, 6, 9 Ant. 4

Channel 3

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 !	2390.000	53.16	-0.84	54.00	22.75	28.05	2.36	0.00	AVERAGE	157	359	HORIZONTAL
2 !	2390.000	68.82	-5.18	74.00	38.40	28.05	2.36	0.00	PEAK	157	359	HORIZONTAL
3	2412.800	93.26			62.80	28.09	2.36	0.00	AVERAGE	157	359	HORIZONTAL
4	2414.400	105.79			75.33	28.09	2.36	0.00	PEAK	157	359	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

Channel 6

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	2386.400	65.14	-8.86	74.00	34.75	28.05	2.35	0.00	PEAK	124	359	HORIZONTAL
2 !	2390.000	49.73	-4.27	54.00	19.31	28.05	2.36	0.00	AVERAGE	124	359	HORIZONTAL
3	2422.200	105.94			75.42	28.13	2.38	0.00	PEAK	124	359	HORIZONTAL
4	2436.600	94.48			63.93	28.18	2.38	0.00	AVERAGE	124	359	HORIZONTAL
5 !	2483.500	52.89	-1.11	54.00	22.22	28.26	2.41	0.00	AVERAGE	124	359	HORIZONTAL
6 !	2484.800	69.87	-4.13	74.00	39.19	28.26	2.41	0.00	PEAK	124	359	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437MHz.

Channel 9

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	2444.800	104.28			73.70	28.18	2.40	0.00	PEAK	128	356	HORIZONTAL
2	2448.000	90.87			60.30	28.18	2.40	0.00	AVERAGE	128	356	HORIZONTAL
3 !	2483.500	53.80	-0.20	54.00	23.12	28.26	2.41	0.00	AVERAGE	128	356	HORIZONTAL
4 !	2483.500	68.35	-5.65	74.00	37.68	28.26	2.41	0.00	PEAK	128	356	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Temperature	23℃	Humidity	62%
Test Engineer	Sam Chen	Configurations	Draft n MCS8 20MHz Ch 1, 6, 11 Ant. 5

Channel 1

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	2389.600	69.17	-4.83	74.00	36.87	28.17	4.13	0.00	PEAK	118	147	HORIZONTAL
2 @	2390.000	53.96	-0.04	54.00	21.63	28.17	4.15	0.00	AVERAGE	118	147	HORIZONTAL
3 @	2407.600	110.73			78.37	28.21	4.15	0.00	PEAK	118	147	HORIZONTAL
4 @	2411.000	98.92			66.55	28.21	4.15	0.00	AVERAGE	118	147	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz

Channel 6

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	2389.400	67.66	-6.34	74.00	35.36	28.17	4.13	0.00	PEAK	117	123	VERTICAL
2 @	2390.000	52.42	-1.58	54.00	20.10	28.17	4.15	0.00	AVERAGE	117	123	VERTICAL
3 @	2435.800	115.96			83.54	28.25	4.18	0.00	PEAK	117	123	VERTICAL
4 @	2436.000	104.29			71.86	28.25	4.18	0.00	AVERAGE	117	123	VERTICAL
5 @	2483.500	51.14	-2.86	54.00	18.55	28.36	4.23	0.00	AVERAGE	117	123	VERTICAL
6 @	2485.300	69.43	-4.57	74.00	36.84	28.36	4.23	0.00	PEAK	117	123	VERTICAL

Item 3, 4 are the fundamental frequency at 2437MHz.

Channel 11

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	2461.000	112.25			79.73	28.32	4.20	0.00	PEAK	118	149	HORIZONTAL
2 @	2463.000	99.10			66.58	28.32	4.20	0.00	AVERAGE	118	149	HORIZONTAL
3 !	2483.500	53.16	-0.84	54.00	20.57	28.36	4.23	0.00	AVERAGE	118	149	HORIZONTAL
4 !	2484.100	70.60	-3.40	74.00	38.01	28.36	4.23	0.00	PEAK	118	149	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	23℃	Humidity	62%
Test Engineer	Sam Chen	Configurations	Draft n MCS8 40MHz Ch 3, 6, 9 Ant. 5

Channel 3

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	2390.000	53.74	-0.26	54.00	21.42	28.17	4.15	0.00	AVERAGE	116	123	VERTICAL
2 @	2390.000	68.94	-5.06	74.00	36.62	28.17	4.15	0.00	PEAK	116	123	VERTICAL
3 @	2405.600	92.13			59.77	28.21	4.15	0.00	AVERAGE	116	123	VERTICAL
4 @	2411.600	105.63			73.27	28.21	4.15	0.00	PEAK	116	123	VERTICAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

Channel 6

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	2389.200	66.45	-7.55	74.00	34.15	28.17	4.13	0.00	PEAK	100	162	VERTICAL
2 @	2390.000	53.32	-0.68	54.00	20.99	28.17	4.15	0.00	AVERAGE	100	162	VERTICAL
3 @	2421.000	106.11			73.68	28.25	4.18	0.00	PEAK	100	162	VERTICAL
4 @	2423.000	93.56			61.14	28.25	4.18	0.00	AVERAGE	100	162	VERTICAL

Item 3, 4 are the fundamental frequency at 2437MHz.

Channel 9

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	2452.000	92.92			60.43	28.29	4.20	0.00	AVERAGE	114	152	HORIZONTAL
2 @	2456.800	105.60			73.07	28.32	4.20	0.00	PEAK	114	152	HORIZONTAL
3 @	2483.500	53.72	-0.28	54.00	21.13	28.36	4.23	0.00	AVERAGE	114	152	HORIZONTAL
4 @	2483.500	69.07	-4.93	74.00	36.49	28.36	4.23	0.00	PEAK	114	152	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Temperature	23℃	Humidity	62%
Test Engineer	Jax Chen	Configurations	11a Draft n MCS8 20MHz CH 149, 157, 165 Ant. 5

Channel 149

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	5747.400	123.51			82.33	34.35	6.84	0.00	PEAK	143	282	VERTICAL
2 @	5747.800	112.23			71.05	34.35	6.84	0.00	AVERAGE	143	282	VERTICAL

Item 1, 2 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	5780.400	123.22			82.01	34.36	6.85	0.00	PEAK	142	298	VERTICAL
2 @	5783.400	109.90			68.68	34.36	6.86	0.00	AVERAGE	142	298	VERTICAL

Item 1, 2 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	5826.600	123.45			82.20	34.37	6.88	0.00	PEAK	140	309	VERTICAL
2 @	5827.000	111.68			70.44	34.37	6.88	0.00	AVERAGE	140	309	VERTICAL

Item 1, 2 are the fundamental frequency at 5825 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Temperature	23℃	Humidity	62%
Test Engineer	Jax Chen	Configurations	11a Draft n MCS8 40MHz CH 151, 159 Ant. 5

Channel 151

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	5751.000	106.86			65.68	34.35	6.84	0.00	AVERAGE	116	273	VERTICAL
2 @	5762.600	120.04			78.84	34.35	6.85	0.00	PEAK	116	273	VERTICAL

Item 1, 2 are the fundamental frequency at 5755 MHz.

Channel 159

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	5789.400	120.92			79.70	34.36	6.86	0.00	PEAK	114	269	VERTICAL
2 @	5799.800	108.68			67.46	34.36	6.86	0.00	AVERAGE	114	269	VERTICAL

Item 1, 2 are the fundamental frequency at 5795 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Temperature	23℃	Humidity	62%
Test Engineer	Jax Chen	Configurations	11a Draft n MCS8 20MHz CH 149, 157, 165 Ant. 6

Channel 149

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm	
1 @	5743.600	114.70			75.97	34.32	0.00	4.41	AVERAGE	324	100	VERTICAL
2 @	5747.000	126.94			88.21	34.32	0.00	4.41	PEAK	360	100	VERTICAL

Item 1, 2 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm	
1 @	5780.000	115.31			76.47	34.43	0.00	4.41	AVERAGE	360	100	VERTICAL
2 @	5782.000	127.65			88.81	34.43	0.00	4.42	PEAK	360	100	VERTICAL

Item 1, 2 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm	
1 @	5820.400	129.31			90.30	34.58	0.00	4.42	PEAK	360	100	VERTICAL
2 @	5825.800	116.14			77.14	34.58	0.00	4.42	AVERAGE	360	100	VERTICAL

Item 1, 2 are the fundamental frequency at 5825 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Temperature	23℃	Humidity	62%
Test Engineer	Jax Chen	Configurations	11a Draft n MCS8 40MHz CH 151, 159 Ant. 6

Channel 151

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	5741.800	133.07			91.89	34.35	6.84	0.00	PEAK	125	91	VERTICAL
2 @	5759.400	119.20			78.00	34.35	6.85	0.00	AVERAGE	125	91	VERTICAL

Item 1, 2 are the fundamental frequency at 5755 MHz.

Channel 159

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	5802.200	120.85			79.63	34.36	6.86	0.00	AVERAGE	122	95	VERTICAL
2 @	5809.400	134.11			92.87	34.36	6.88	0.00	PEAK	122	95	VERTICAL

Item 1, 2 are the fundamental frequency at 5795 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Temperature	23℃	Humidity	62%
Test Engineer	Jax Chen	Configurations	11a Draft n MCS8 20MHz CH 149, 157, 165 Ant. 7

Channel 149

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	5746.400	116.81			75.63	34.35	6.84	0.00	AVERAGE	136	131	VERTICAL
2 @	5747.400	130.53			89.35	34.35	6.84	0.00	PEAK	136	131	VERTICAL

Item 1, 2 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	5781.400	117.14			75.93	34.36	6.86	0.00	AVERAGE	127	47	VERTICAL
2 @	5782.000	130.56			89.35	34.36	6.86	0.00	PEAK	127	47	VERTICAL

Item 1, 2 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	5821.600	129.74			88.50	34.37	6.88	0.00	PEAK	127	79	VERTICAL
2 @	5827.200	116.43			75.18	34.37	6.88	0.00	AVERAGE	127	79	VERTICAL

Item 1, 2 are the fundamental frequency at 5825 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Temperature	23℃	Humidity	62%
Test Engineer	Jax Chen	Configurations	11a Draft n MCS8 40MHz CH 151, 159 Ant. 7

Channel 151

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	5747.400	125.87			84.69	34.35	6.84	0.00	PEAK	126	92	VERTICAL
2 @	5748.200	112.51			71.33	34.35	6.84	0.00	AVERAGE	126	92	VERTICAL

Item 1, 2 are the fundamental frequency at 5755 MHz.

Channel 159

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	5781.400	112.50			71.28	34.36	6.86	0.00	AVERAGE	119	97	VERTICAL
2 @	5781.400	125.68			84.46	34.36	6.86	0.00	PEAK	119	97	VERTICAL

Item 1, 2 are the fundamental frequency at 5795 MHz.

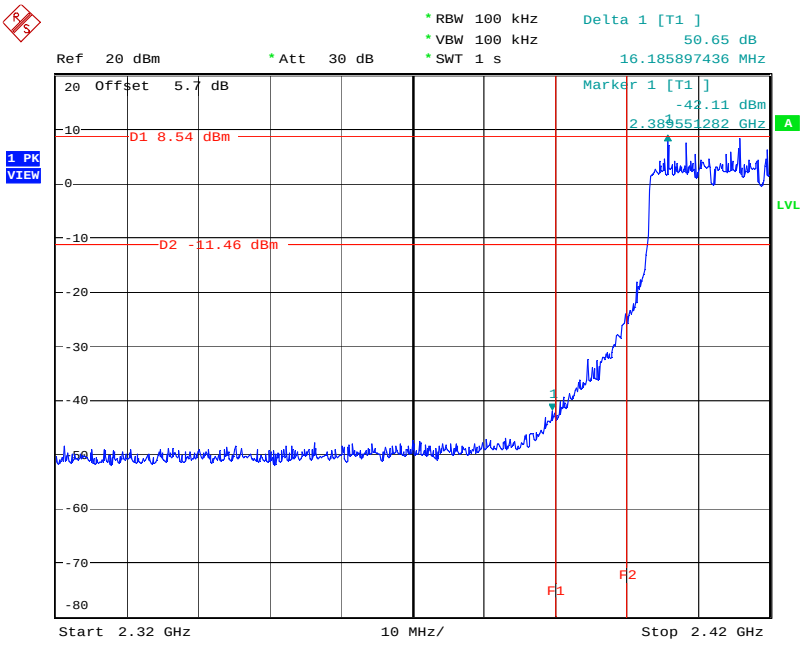
Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

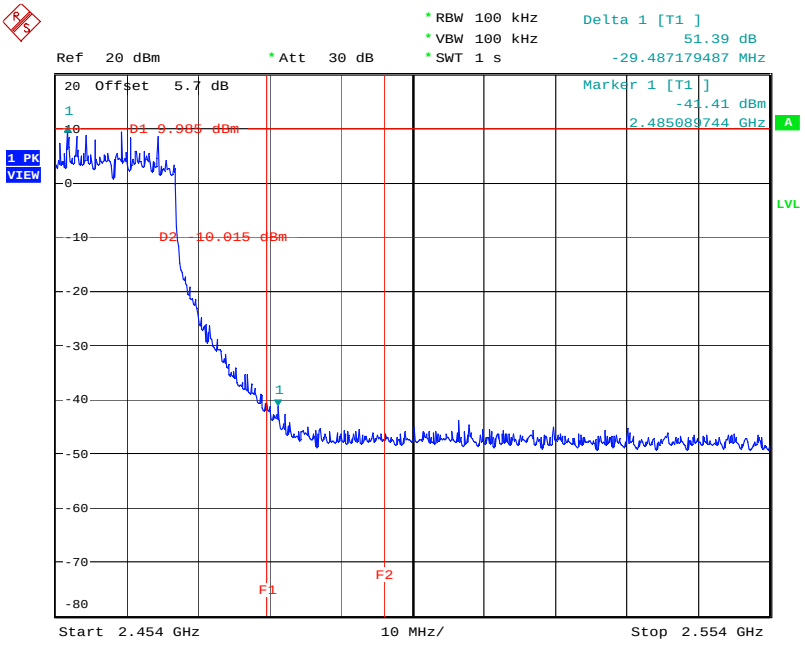
For Emission not in Restricted Band

Low Band Edge Plot on Configuration Draft n MCS0 20MHz Ant. 1 / 2412 MHz



Date: 20.MAR.2008 20:54:01

High Band Edge Plot on Configuration Draft n MCS0 20MHz Ant. 1 / 2462 MHz



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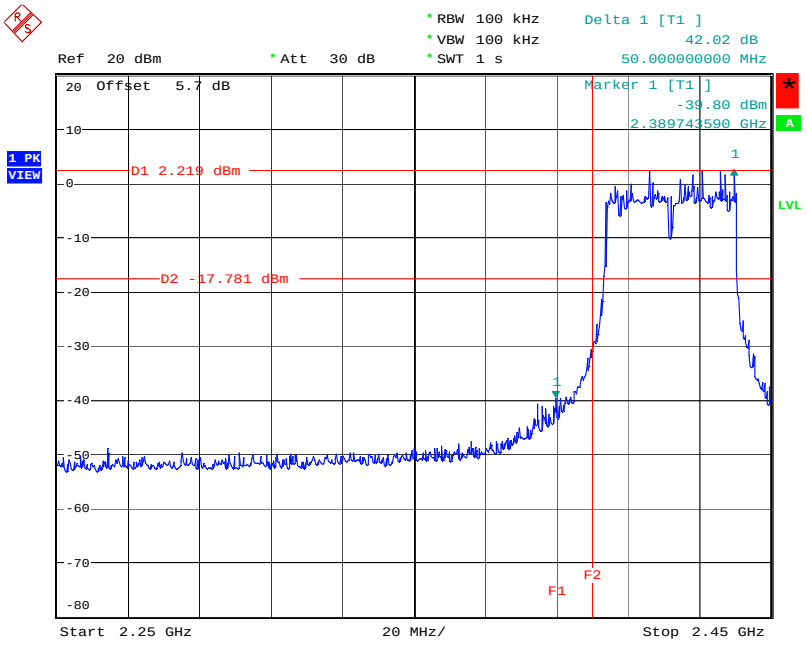
Low Band Edge Plot on Configuration Draft n MCS0 40MHz Ant. 1 / 2422 MHz



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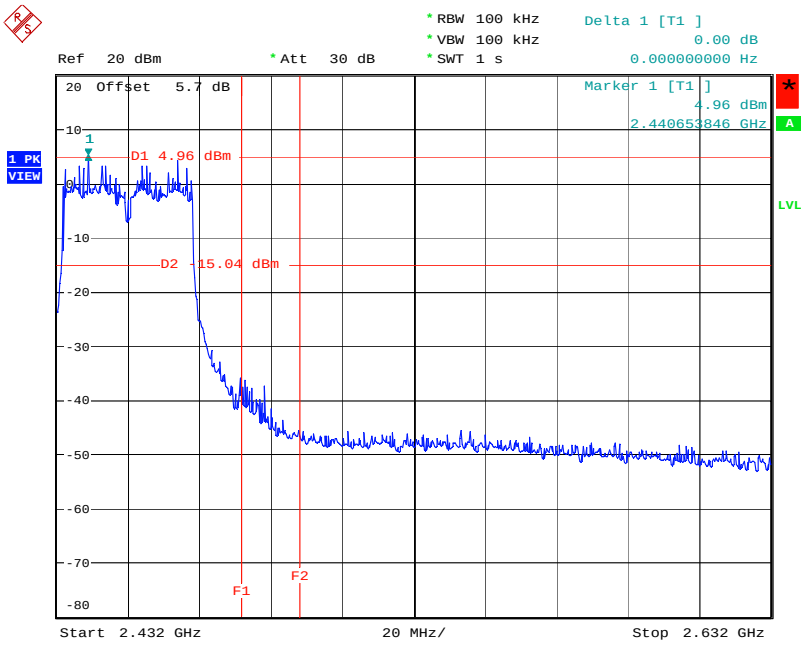
High Band Edge Plot on Configuration Draft n MCS0 40MHz Ant. 1 / 2452 MHz



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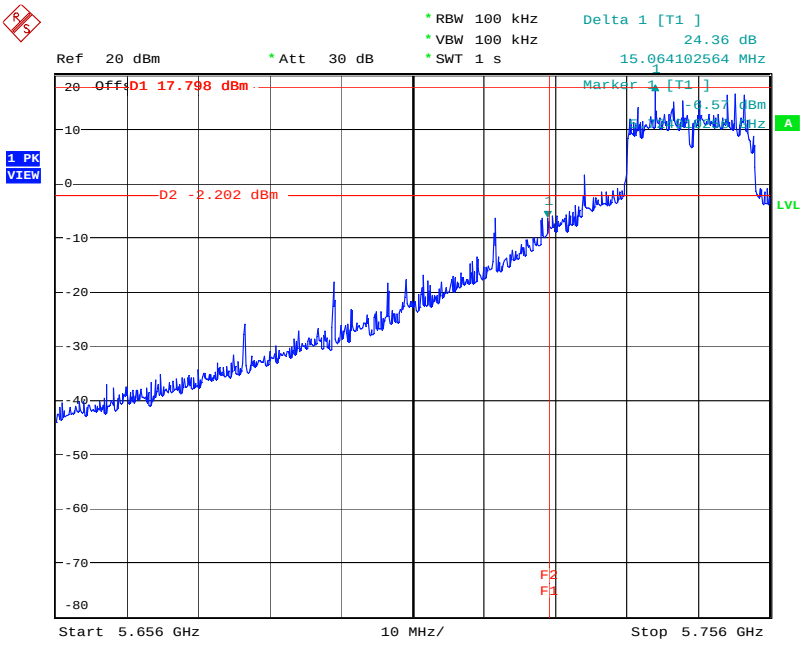
Low Band Edge Plot on Configuration 11a Draft n MCS8 20MHz Ant. 1 / 5745 MHz



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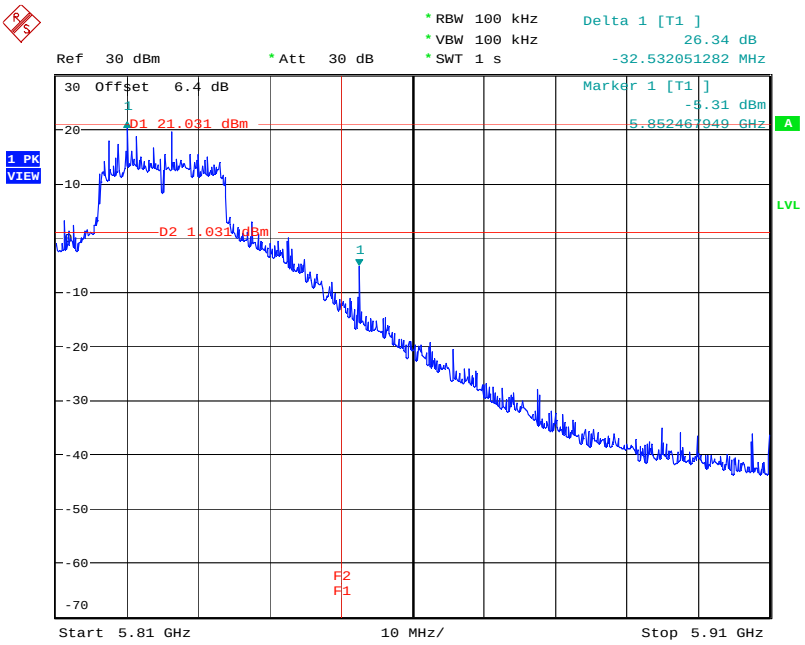
High Band Edge Plot on Configuration 11a Draft n MCS8 20MHz Ant. 1/ 5825 MHz



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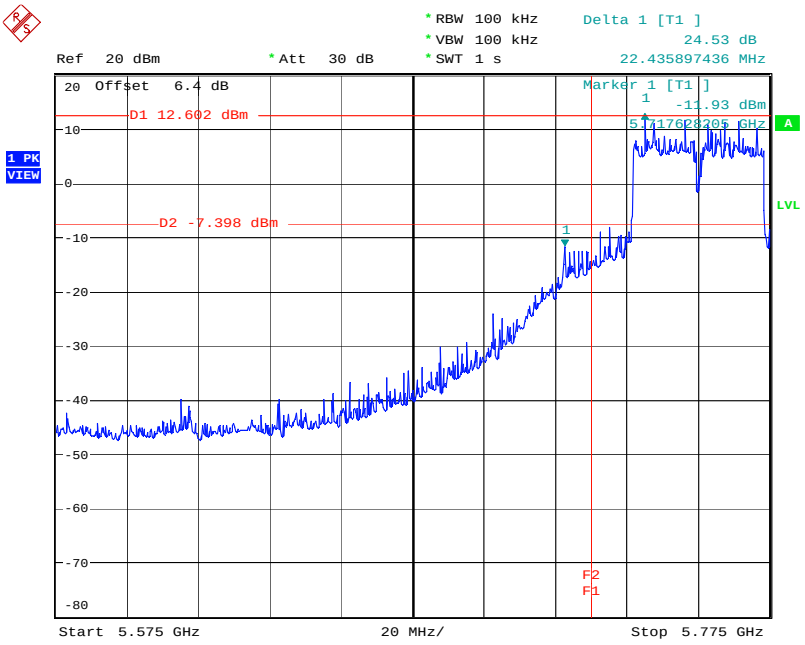
Low Band Edge Plot on Configuration 11a Draft n MCS8 40MHz Ant. 1 / 5755 MHz



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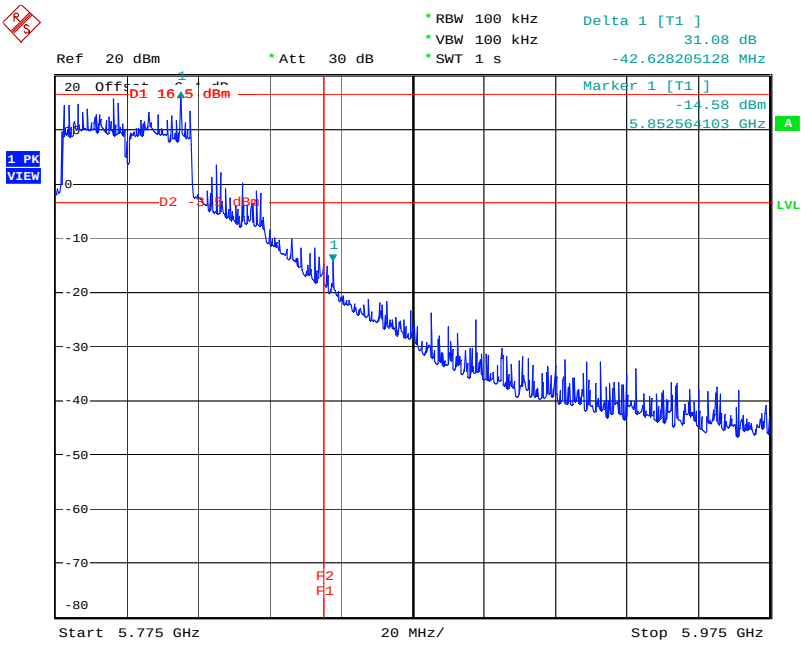
High Band Edge Plot on Configuration 11a Draft n MCS8 40MHz Ant. 1/ 5795 MHz



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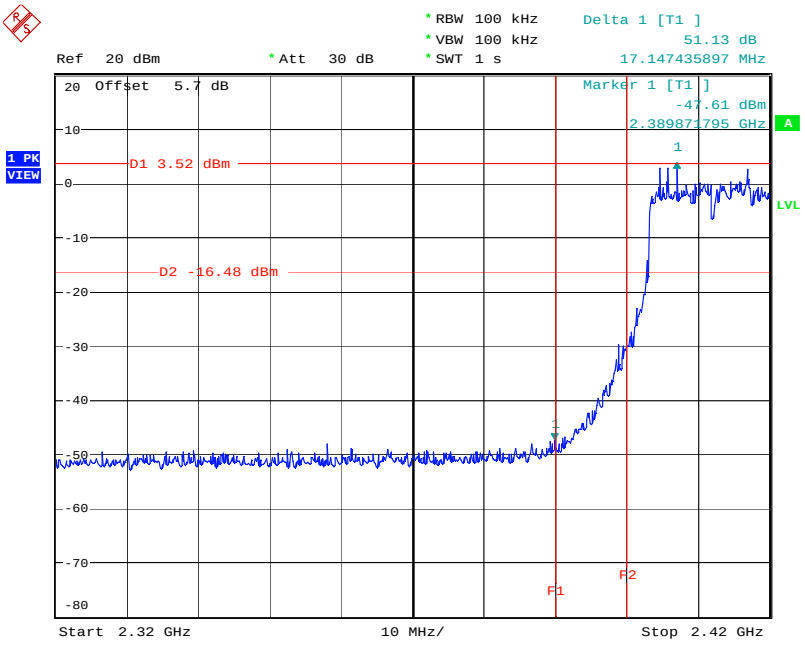
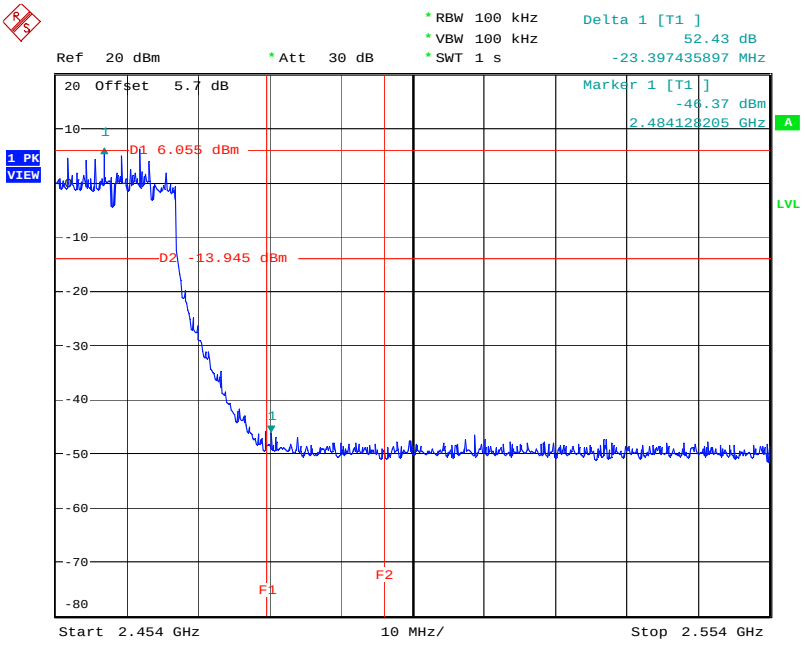
For Emission not in Restricted Band

Low Band Edge Plot on Configuration Draft n MCS0 20MHz Ant. 2 / 2412 MHz



Date: 22.MAR.2008 16:15:03

High Band Edge Plot on Configuration Draft n MCS0 20MHz Ant. 2 / 2462 MHz



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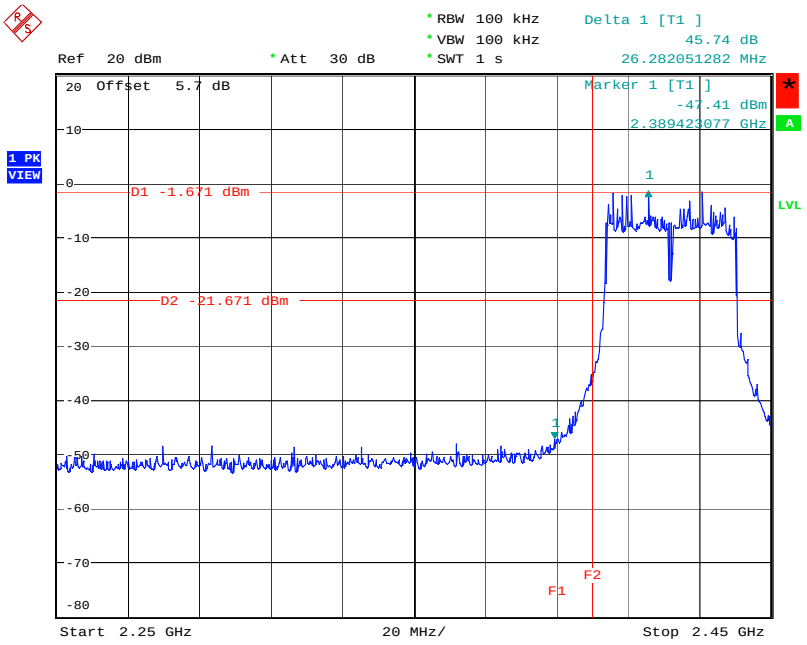
Low Band Edge Plot on Configuration Draft n MCS0 40MHz Ant. 2 / 2422 MHz



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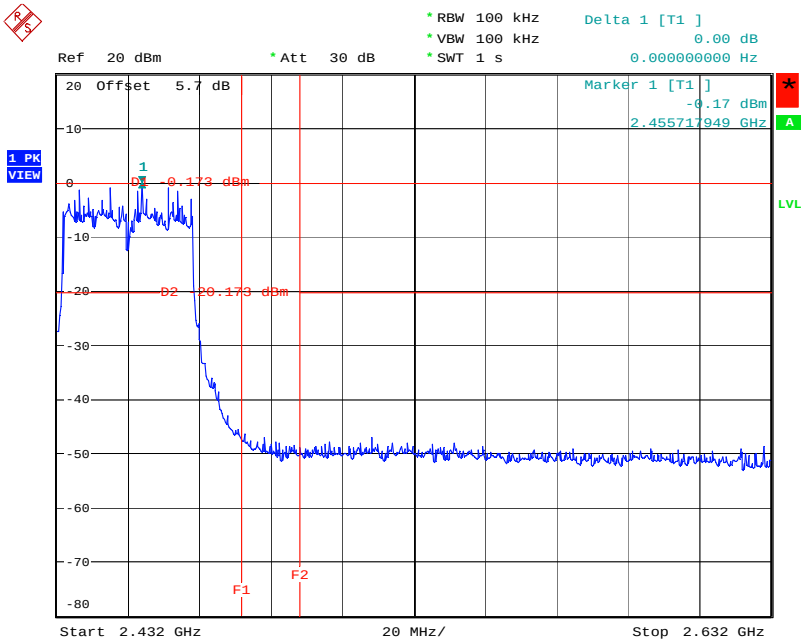
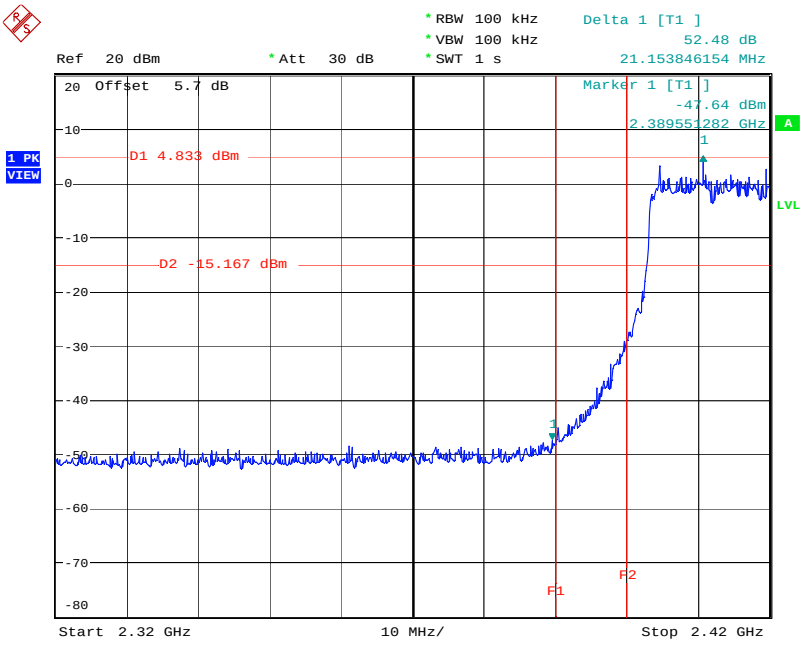
High Band Edge Plot on Configuration Draft n MCS0 40MHz Ant. 2 / 2452 MHz



Date: 22.MAR.2008 16:07:44

For Emission not in Restricted Band

Low Band Edge Plot on Configuration Draft n MCS0 20MHz Ant. 3 / 2412 MHz



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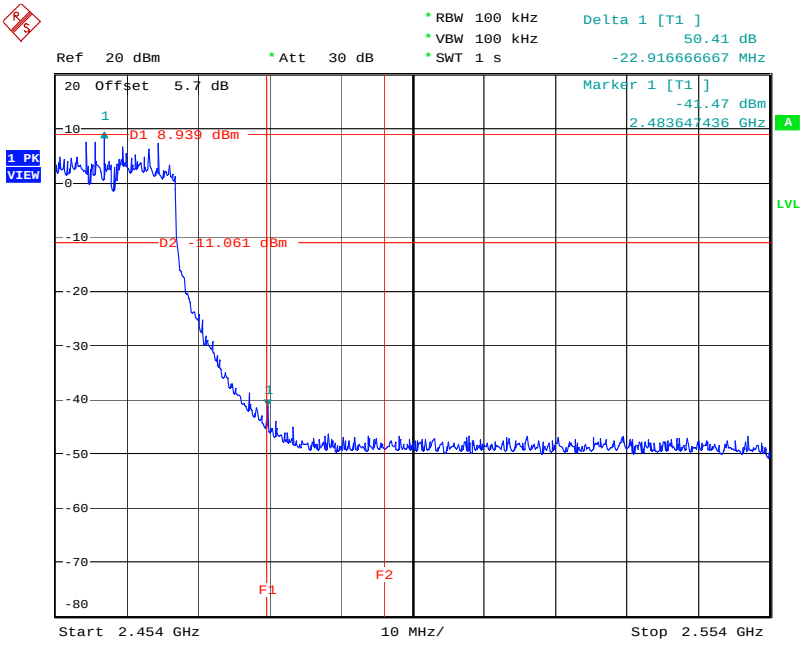
High Band Edge Plot on Configuration Draft n MCS0 20MHz Ant. 3 / 2462 MHz



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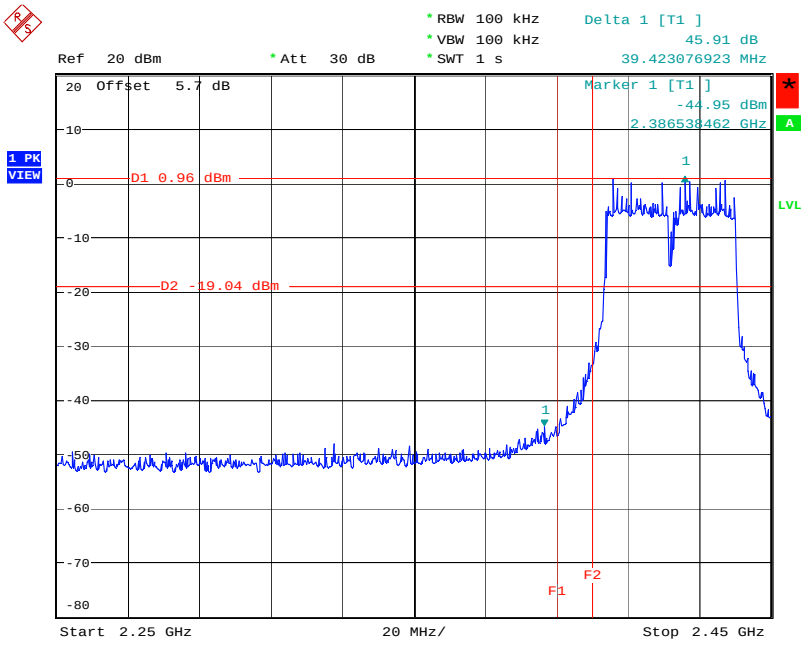
Low Band Edge Plot on Configuration Draft n MCS0 40MHz Ant. 3 / 2422 MHz



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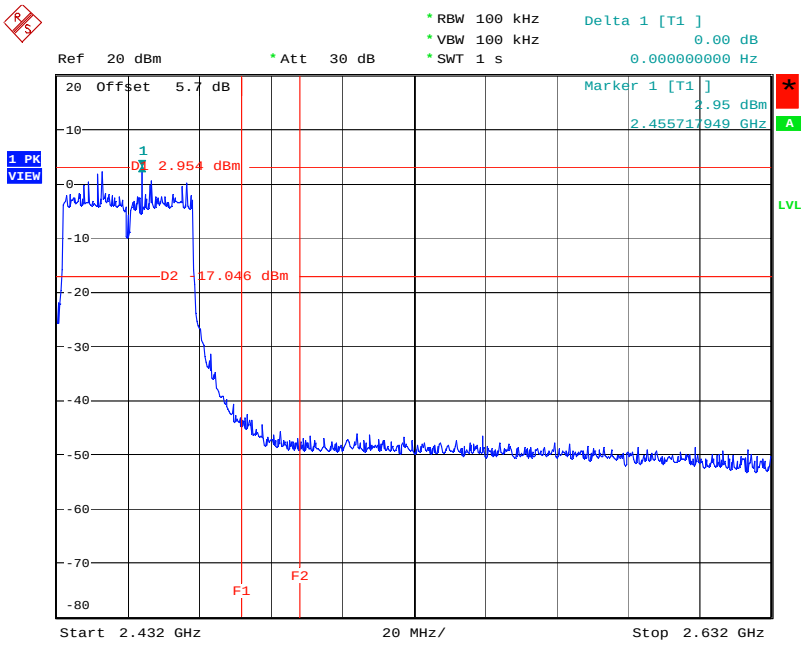
High Band Edge Plot on Configuration Draft n MCS0 40MHz Ant. 3 / 2452 MHz



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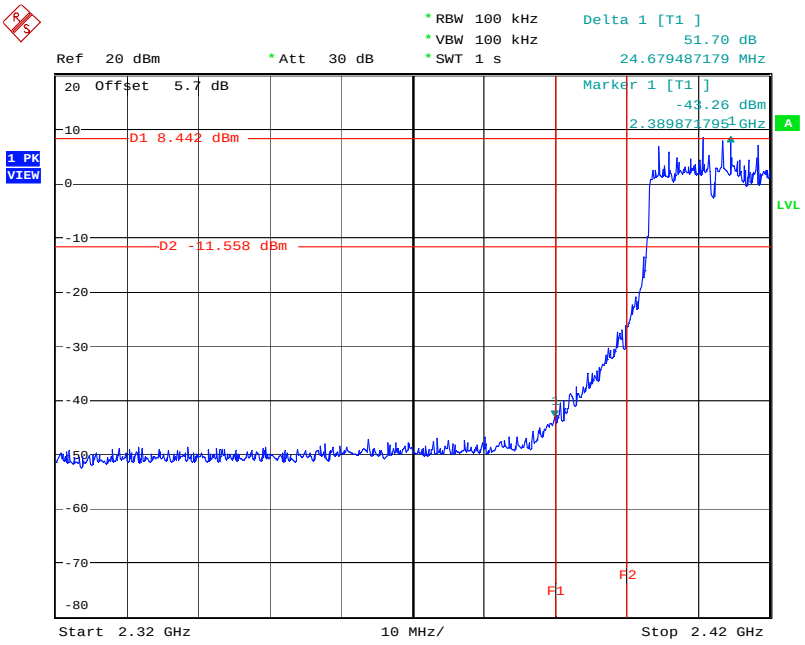
For Emission not in Restricted Band

Low Band Edge Plot on Configuration Draft n MCS0 20MHz Ant. 4 / 2412 MHz



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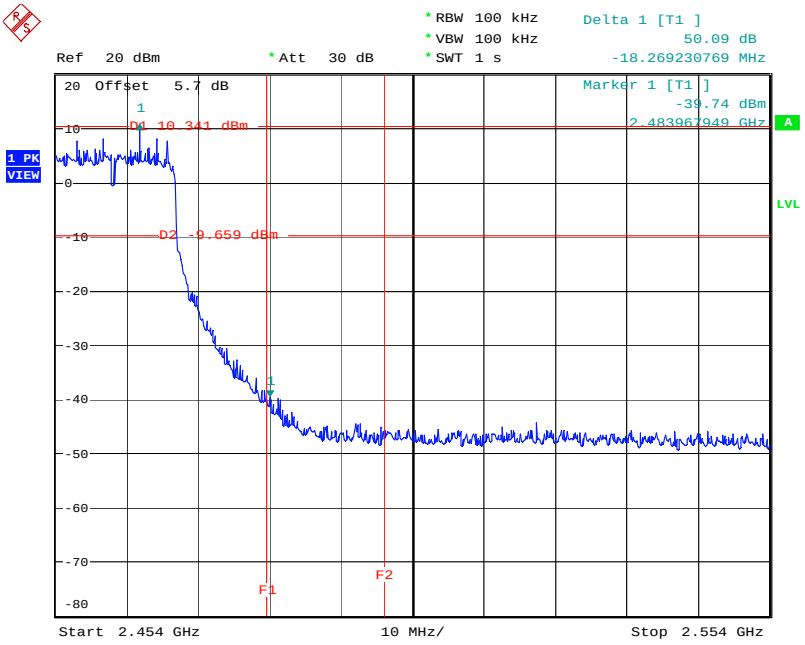
High Band Edge Plot on Configuration Draft n MCS0 20MHz Ant. 4 / 2462 MHz



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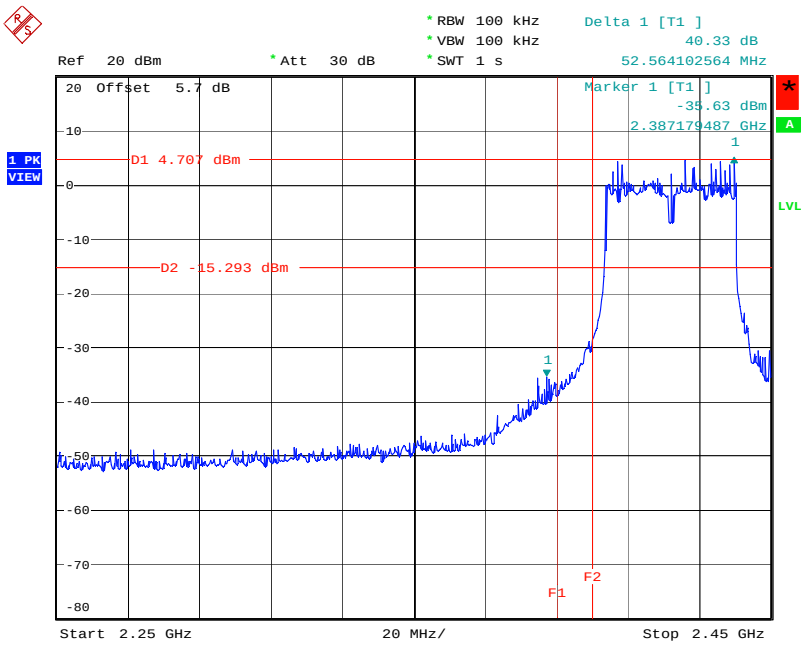
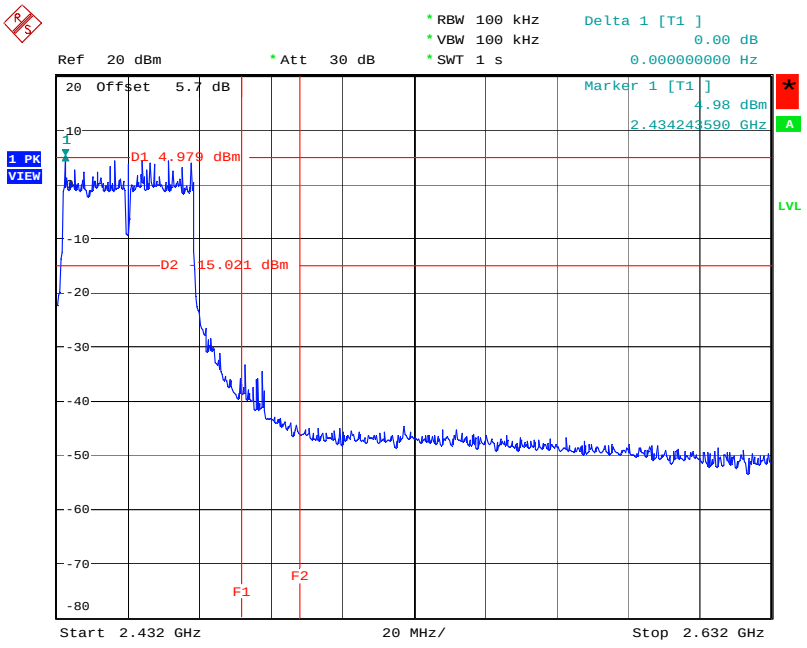


Date: 21.MAR.2008 19:33:23

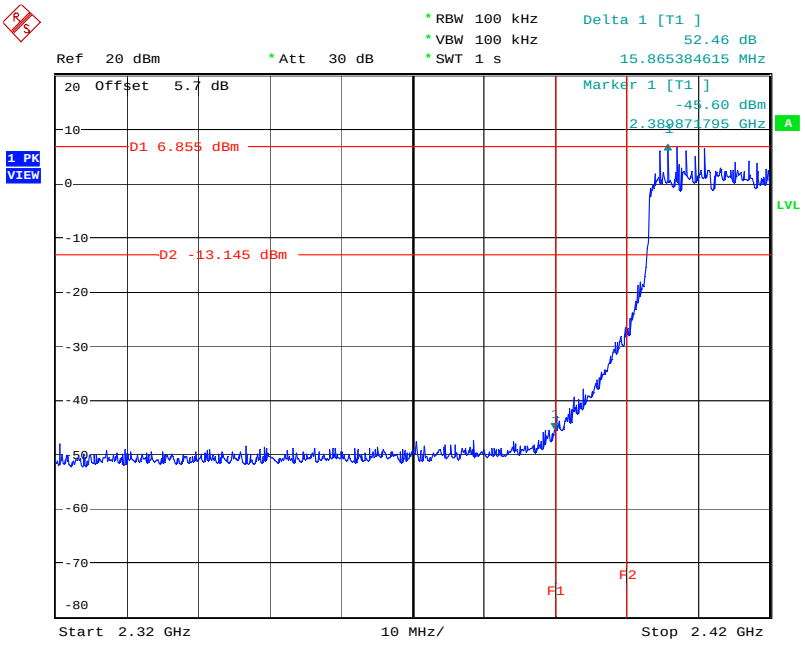
High Band Edge Plot on Configuration Draft n MCS0 40MHz Ant. 4 / 2452 MHz



Date: 21.MAR.2008 19:31:30

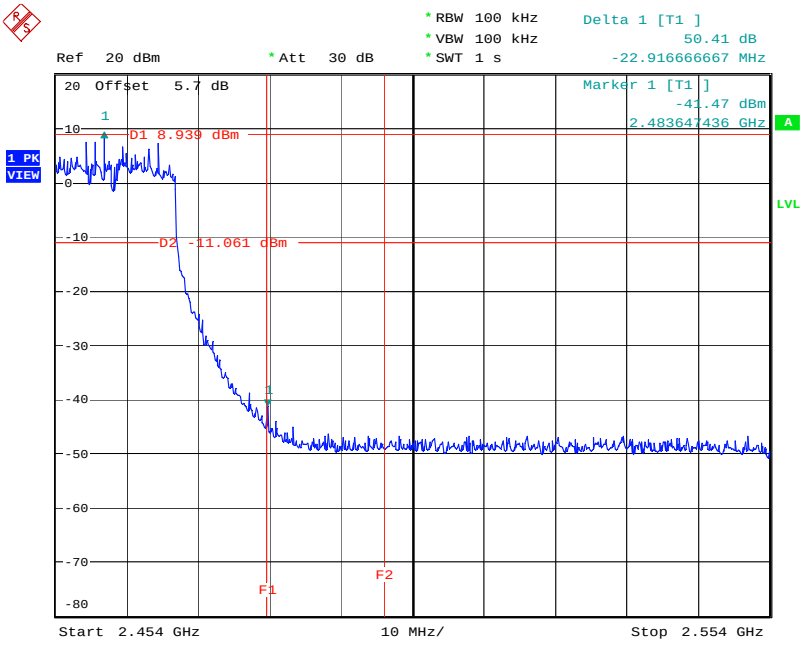
For Emission not in Restricted Band

Low Band Edge Plot on Configuration Draft n MCS0 20MHz Ant. 5 / 2412 MHz



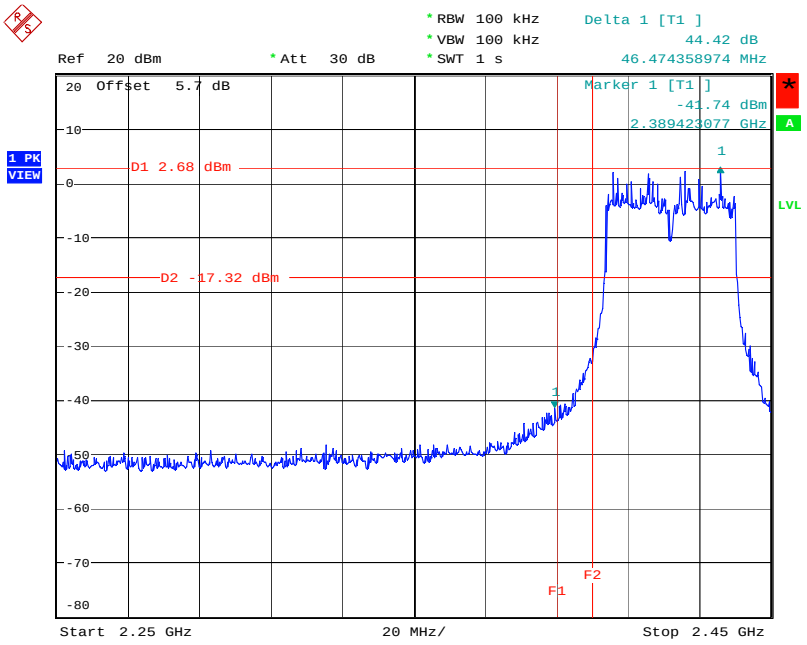
Date: 21.MAR.2008 16:19:55

High Band Edge Plot on Configuration Draft n MCS0 20MHz Ant. 5 / 2462 MHz



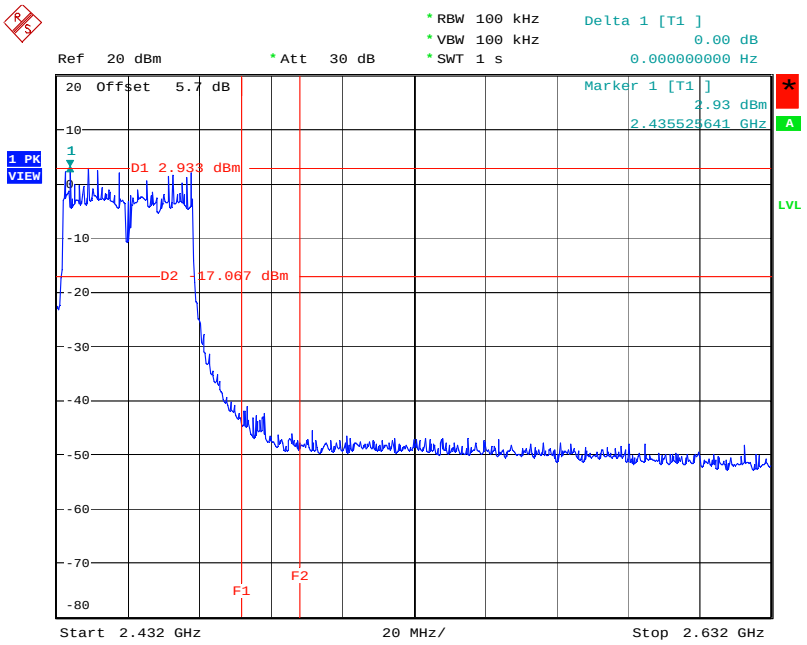
Date: 21.MAR.2008 16:21:36

Low Band Edge Plot on Configuration Draft n MCS0 40MHz Ant. 5 / 2422 MHz



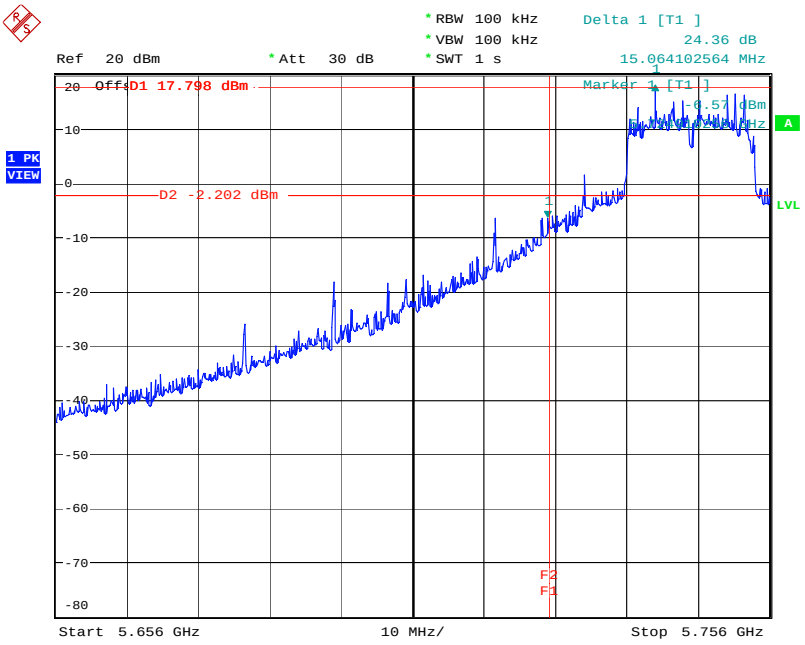
Date: 21.MAR.2008 16:24:19

High Band Edge Plot on Configuration Draft n MCS0 40MHz Ant. 5 / 2452 MHz



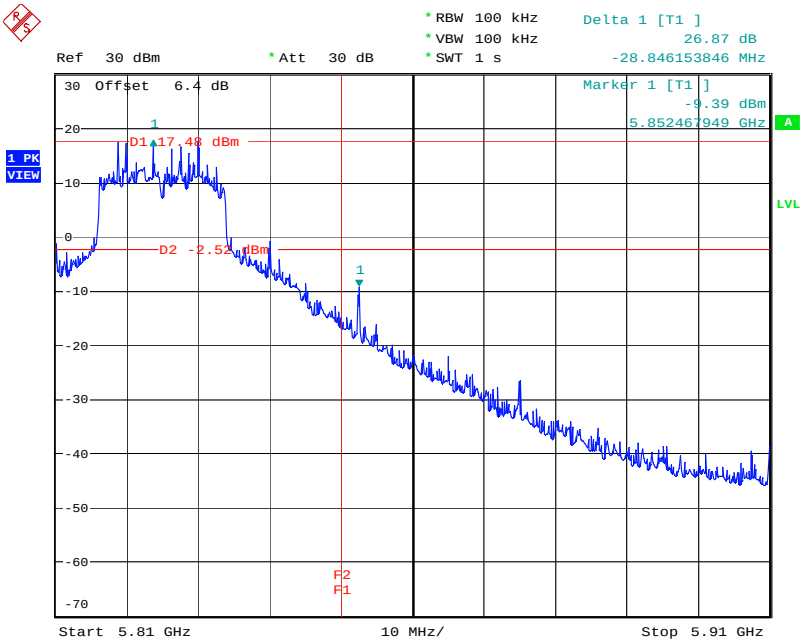
Date: 21.MAR.2008 16:23:20

Low Band Edge Plot on Configuration 11a Draft n MCS8 20MHz Ant. 5 / 5745 MHz



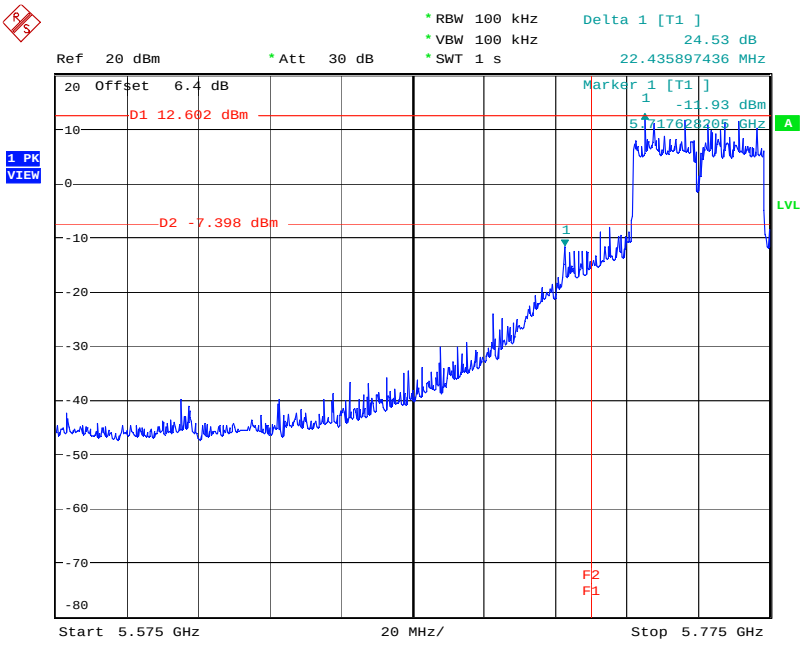
Date: 20.MAR.2008 21:37:30

High Band Edge Plot on Configuration 11a Draft n MCS8 20MHz Ant. 5 / 5825 MHz



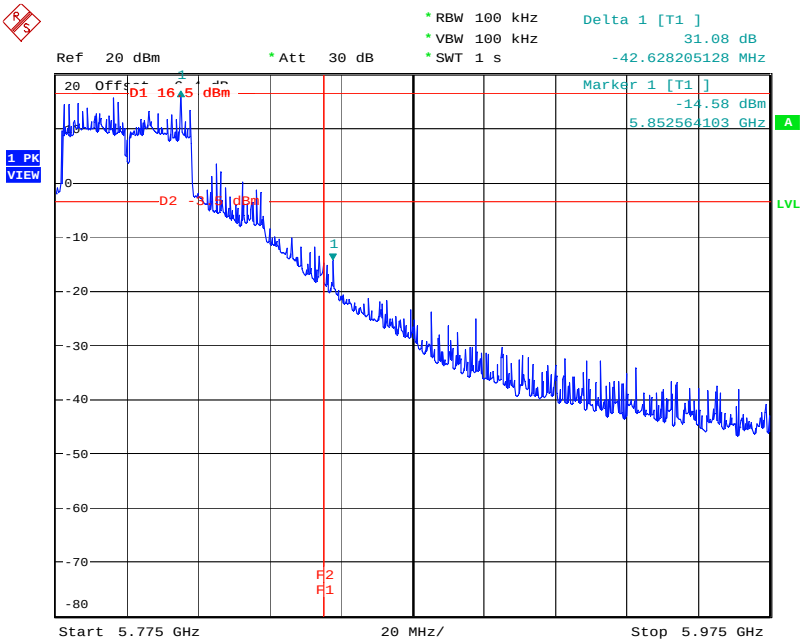
Date: 21.MAR.2008 16:10:16

Low Band Edge Plot on Configuration 11a Draft n MCS8 40MHz Ant. 5 / 5755 MHz



Date: 20.MAR.2008 20:40:57

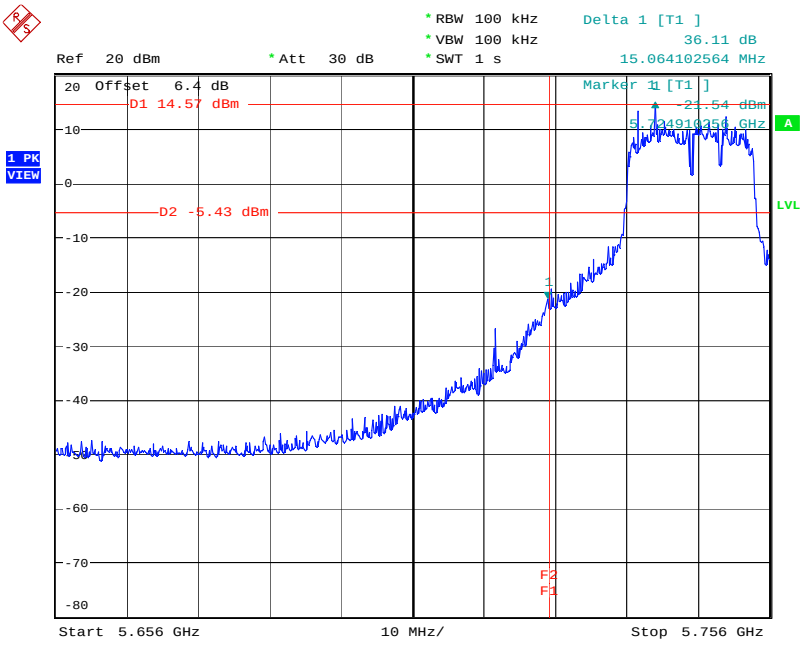
High Band Edge Plot on Configuration 11a Draft n MCS8 40MHz Ant. 5 / 5795 MHz



Date: 20.MAR.2008 20:34:48

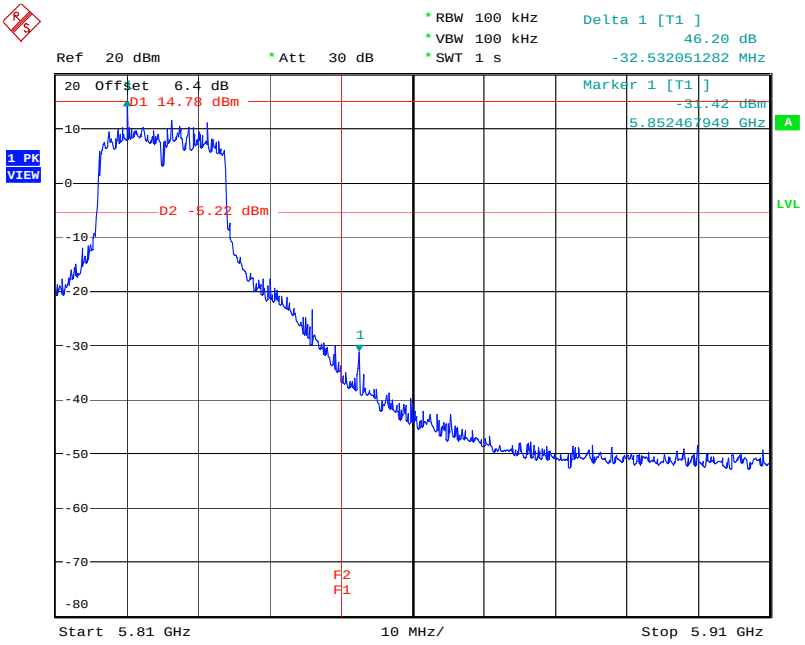
For Emission not in Restricted Band

Low Band Edge Plot on Configuration 11a Draft n MCS8 20MHz Ant. 6 / 5745 MHz



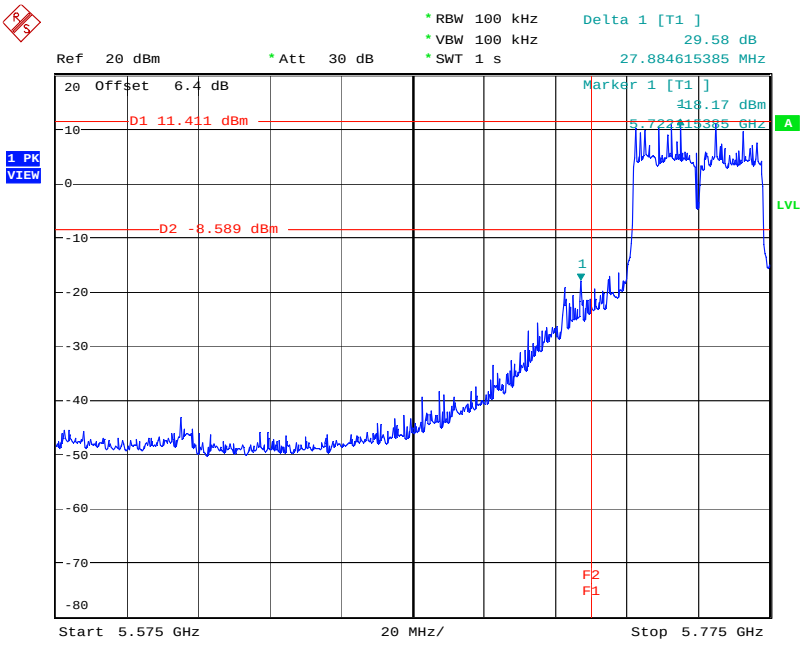
Date: 25.MAR.2008 15:32:15

High Band Edge Plot on Configuration 11a Draft n MCS8 20MHz Ant. 6 / 5825 MHz



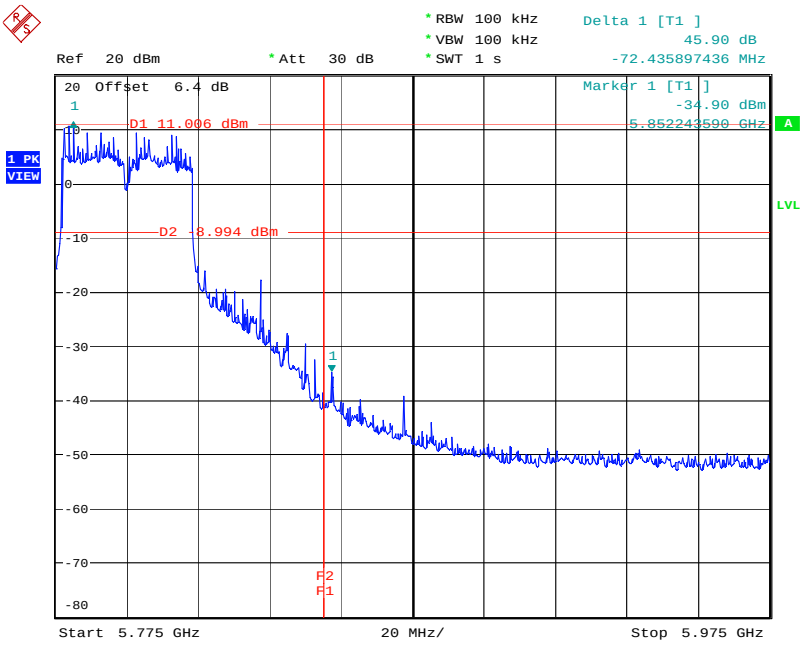
Date: 25.MAR.2008 15:31:10

Low Band Edge Plot on Configuration 11a Draft n MCS8 40MHz Ant. 6 / 5755 MHz



Date: 25.MAR.2008 15:26:15

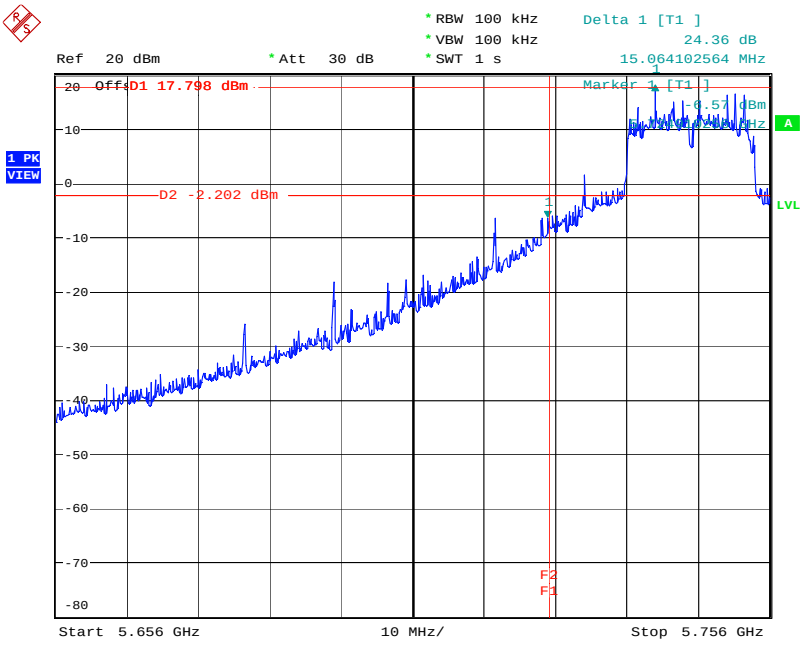
High Band Edge Plot on Configuration 11a Draft n MCS8 40MHz Ant. 6 / 5795 MHz



Date: 25.MAR.2008 15:24:26

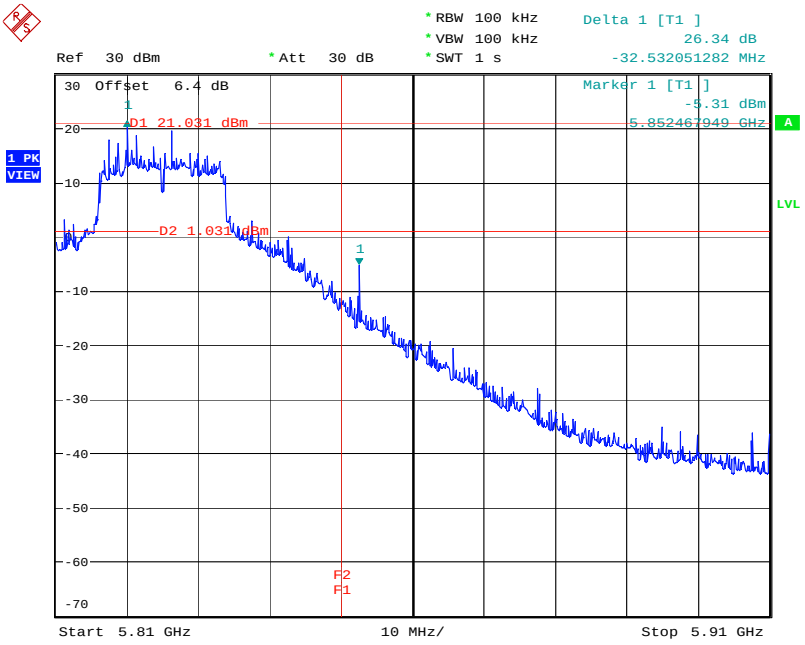
For Emission not in Restricted Band

Low Band Edge Plot on Configuration 11a Draft n MCS8 20MHz Ant. 7 / 5745 MHz



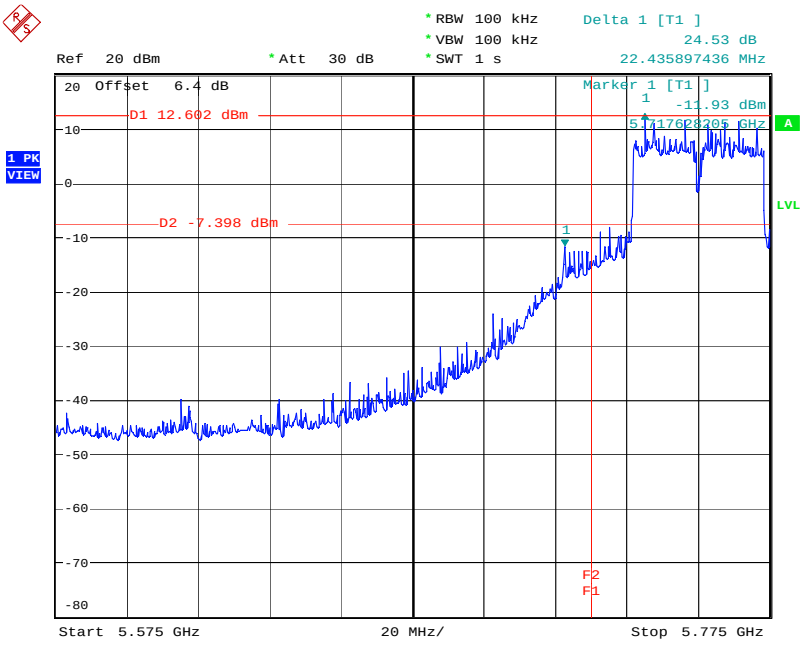
Date: 20.MAR.2008 21:37:30

High Band Edge Plot on Configuration 11a Draft n MCS8 20MHz Ant. 7 / 5825 MHz



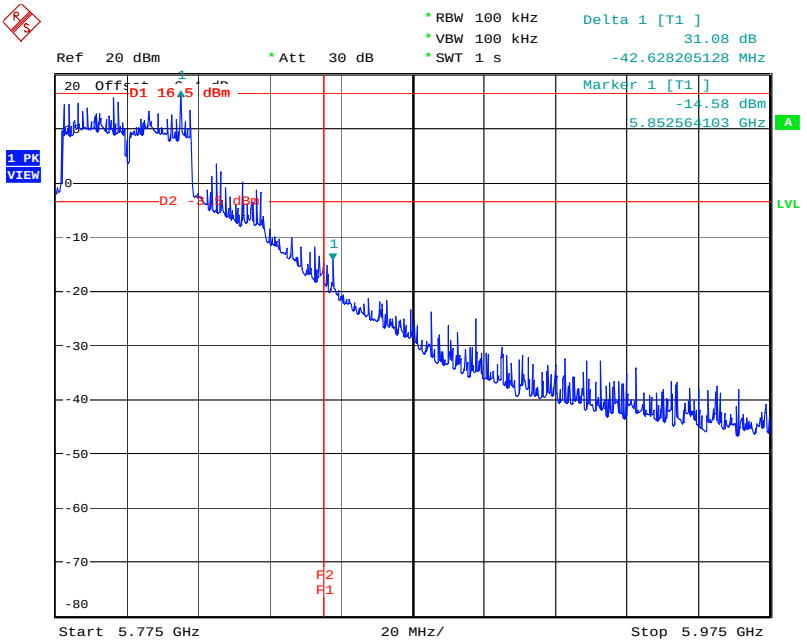
Date: 21.MAR.2008 13:24:09

Low Band Edge Plot on Configuration 11a Draft n MCS8 40MHz Ant. 7 / 5755 MHz



Date: 20.MAR.2008 20:40:57

High Band Edge Plot on Configuration 11a Draft n MCS8 40MHz Ant. 7 / 5795 MHz



Date: 20.MAR.2008 20:34:48

4.7. Antenna Requirements

4.7.1. Limit

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

4.7.2. Antenna Connector Construction

Please refer to section 3.3 in this test report; antenna connector complied with the requirements.

5. LIST OF MEASURING EQUIPMENTS

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMC Receiver	R&S	ESCS 30	100174	9kHz – 2.75GHz	Mar. 03, 2008	Conduction (CO04-HY)
LISN	MessTec	NNB-2/16Z	99079	9kHz – 30MHz	Mar. 31, 2008	Conduction (CO04-HY)
LISN (Support Unit)	EMCO	3810/2NM	9703-1839	9kHz – 30MHz	Mar. 22, 2008	Conduction (CO04-HY)
RF Cable-CON	UTIFLEX	3102-26886-4	CB049	9kHz – 30MHz	Apr. 20, 2007	Conduction (CO04-HY)
ISN	SCHAFFNER	ISN T400	21653	9kHz –30MHz	Mar. 27, 2008	Conduction (CO04-HY)
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	N/A	Conduction (CO04-HY)
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30 MHz - 1 GHz 3m	Jun. 14, 2007	Radiation (03CH03-HY)
Amplifier	SCHAFFNER	COA9231A	18667	9 kHz - 2 GHz	Jan. 14, 2008	Radiation (03CH03-HY)
Amplifier	Agilent	8449B	3008A02120	1 GHz - 26.5 GHz	Jun. 07, 2007	Radiation (03CH03-HY)
Amplifier	MITEQ	AMF-6F-260400	9121372	26.5 GHz - 40 GHz	Jan. 22, 2007*	Radiation (03CH03-HY)
Spectrum Analyzer	R&S	FSP40	100305	9 kHz - 40 GHz	Sep. 27, 2007	Radiation (03CH03-HY)
Loop Antenna	R&S	HFH2-Z2	860004/001	9 kHz - 30 MHz	May 23, 2006*	Radiation (03CH03-HY)
Bilog Antenna	SCHAFFNER	CBL 6112D	22237	30 MHz – 1 GHz	Jul. 21, 2007	Radiation (03CH03-HY)
Horn Antenna	EMCO	3115	6741	1GHz ~ 18GHz	May 04, 2007	Radiation (03CH03-HY)
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15 GHz - 40 GHz	Jan.18, 2008	Radiation (03CH03-HY)
RF Cable-R03m	Jye Bao	RG142	CB021	30 MHz - 1 GHz	Dec. 03, 2007	Radiation (03CH03-HY)
RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	1 GHz - 40 GHz	Dec. 03, 2007	Radiation (03CH03-HY)
Turn Table	HD	DS 420	420/650/00	0 – 360 degree	N/A	Radiation (03CH03-HY)
Antenna Mast	HD	MA 240	240/560/00	1 m - 4 m	N/A	Radiation (03CH03-HY)
Spectrum Analyzer	R&S	FSP30	100023	9kHz ~ 30GHz	Jan. 10, 2008	Conducted (TH01-HY)
Power Meter	R&S	NRVS	100444	DC ~ 40GHz	Jun. 27, 2007	Conducted (TH01-HY)
Power Sensor	R&S	NRV-Z51	100458	DC ~ 30GHz	Jun. 27, 2007	Conducted (TH01-HY)
Power Sensor	R&S	NRV-Z32	100057	30MHz ~ 6GHz	Jun. 27, 2007	Conducted (TH01-HY)
AC Power Source	HPC	HPA-500W	HPA-9100024	AC 0 ~ 300V	May 04, 2007*	Conducted (TH01-HY)
DC Power Source	G.W.	GPC-6030D	C671845	DC 1V ~ 60V	Mar. 13, 2008	Conducted (TH01-HY)
Temp. and Humidity Chamber	KSON	THS-C3L	612	N/A	Oct. 01, 2007	Conducted (TH01-HY)
RF CABLE-1m	Jye Bao	RG142	CB034-1m	20MHz ~ 7GHz	Dec. 01, 2007	Conducted (TH01-HY)
RF CABLE-2m	Jye Bao	RG142	CB035-2m	20MHz ~ 1GHz	Dec. 01, 2007	Conducted (TH01-HY)
Vector Signal Generator	R&S	SMU200A	102098	100kHz ~ 6GHz	Nov. 14, 2007	Conducted (TH01-HY)
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	Mar. 10, 2008	Conducted (TH01-HY)

Note: Calibration Interval of instruments listed above is one year.

Note: *Calibration Interval of instruments listed above is two year.

6. TEST LOCATION

SHIJR	ADD	:	6Fl., No. 106, Sec. 1, Shintai 5th Rd., Shijr City, Taipei, Taiwan 221, R.O.C.
	TEL	:	886-2-2696-2468
	FAX	:	886-2-2696-2255
HWA YA	ADD	:	No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.
	TEL	:	886-3-327-3456
	FAX	:	886-3-318-0055
LINKOU	ADD	:	No. 30-2, Dingfu Tsuen, Linkou Shiang, Taipei, Taiwan 244, R.O.C
	TEL	:	886-2-2601-1640
	FAX	:	886-2-2601-1695
DUNGHU	ADD	:	No. 3, Lane 238, Kangle St., Neihu Chiu, Taipei, Taiwan 114, R.O.C.
	TEL	:	886-2-2631-4739
	FAX	:	886-2-2631-9740
JUNGHE	ADD	:	7Fl., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C.
	TEL	:	886-2-8227-2020
	FAX	:	886-2-8227-2626
NEIHU	ADD	:	4Fl., No. 339, Hsin Hu 2nd Rd., Taipei 114, Taiwan, R.O.C.
	TEL	:	886-2-2794-8886
	FAX	:	886-2-2794-9777
JHUBEI	ADD	:	No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.
	TEL	:	886-3-656-9065
	FAX	:	886-3-656-9085

7. TAF CERTIFICATE OF ACCREDITATION

Certificate No. : L1190-070110

財團法人全國認證基金會
Taiwan Accreditation Foundation

Certificate of Accreditation

This is to certify that

Sporton International Inc.
EMC & Wireless Communications Laboratory
No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

is accredited in respect of laboratory

Accreditation Criteria	:	ISO/IEC 17025:2005
Accreditation Number	:	1190
Originally Accredited	:	December 15, 2003
Effective Period	:	January 10, 2007 to January 09, 2010
Accredited Scope	:	Testing Field, see described in the Appendix
Specific Accreditation Program	:	Accreditation Program for Designated Testing Laboratory for Commodities Inspection Accreditation Program for Telecommunication Equipment Testing Laboratory

Jay-San Chen
President, Taiwan Accreditation Foundation
Date : January 10, 2007

P1, total 9 pages

The Appendix forms an integral part of this Certificate, which shall be invalid when used without the Appendix.