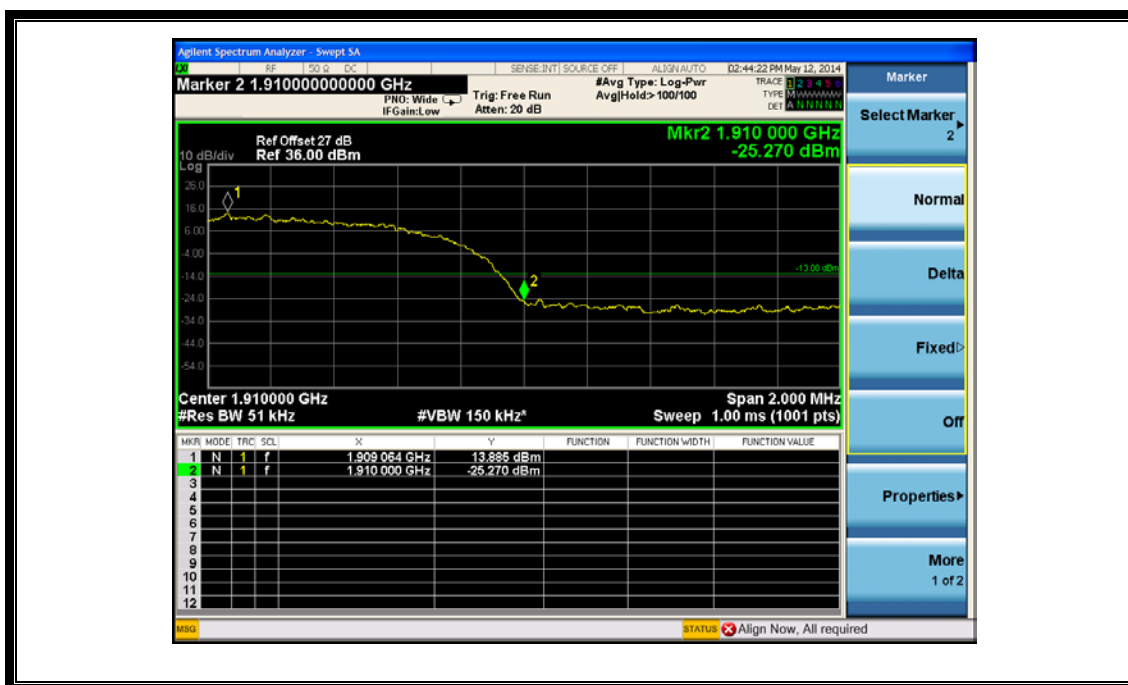
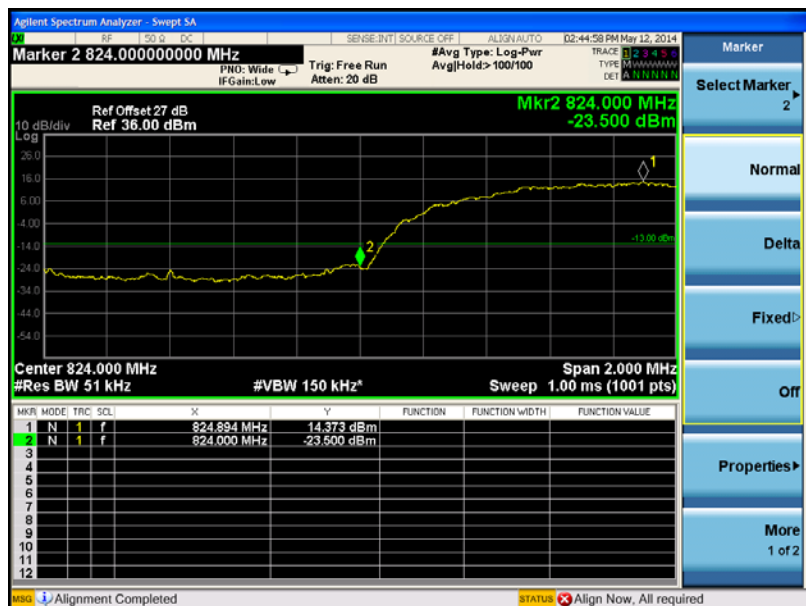




(Plot O: HSDPA 1900 Channel = 9262)



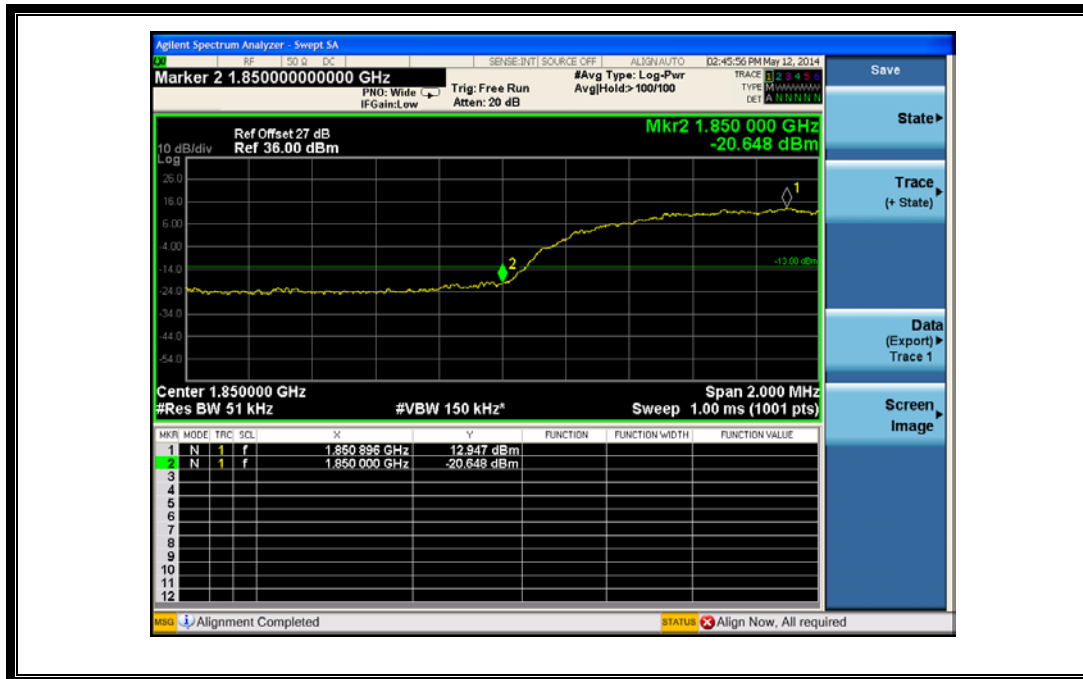
(Plot P: HSDPA 1900 Channel = 9538)



(Plot Q: HSUPA 850 Channel = 4132)



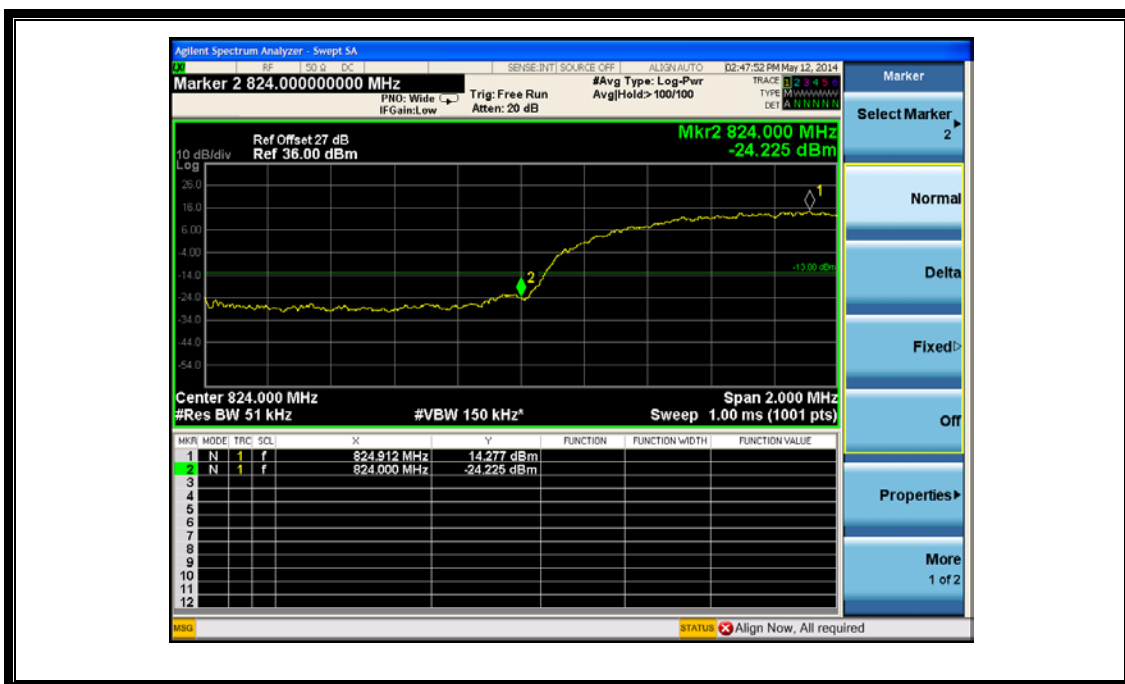
(Plot R: HSUPA850 Channel = 4233)



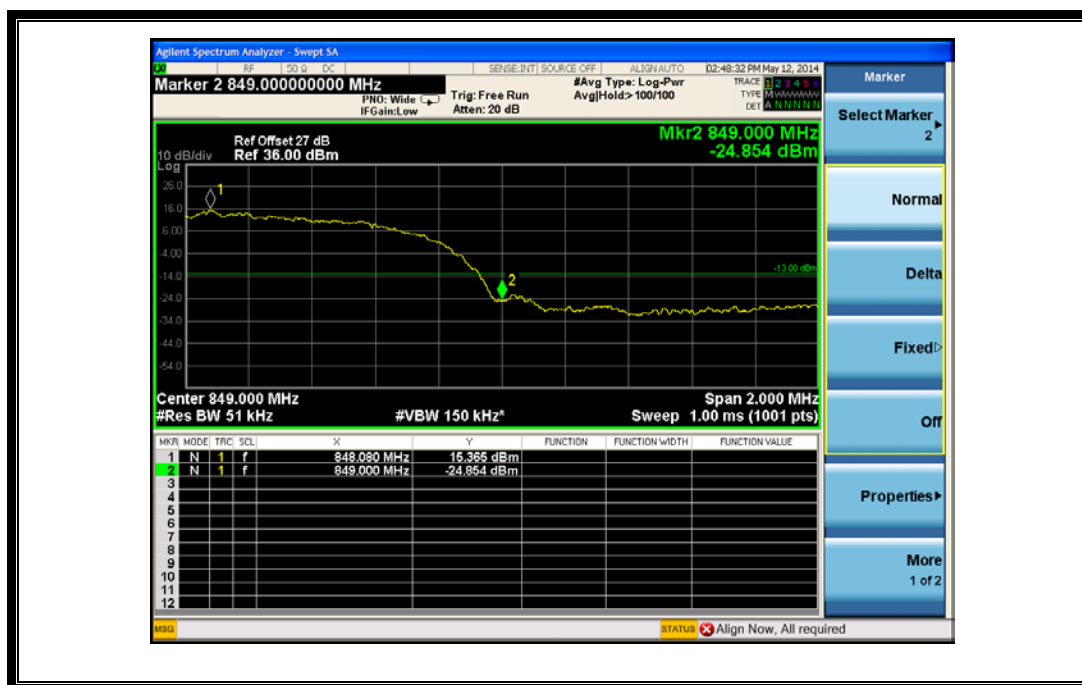
(Plot S: HSUPA 1900 Channel = 9262)



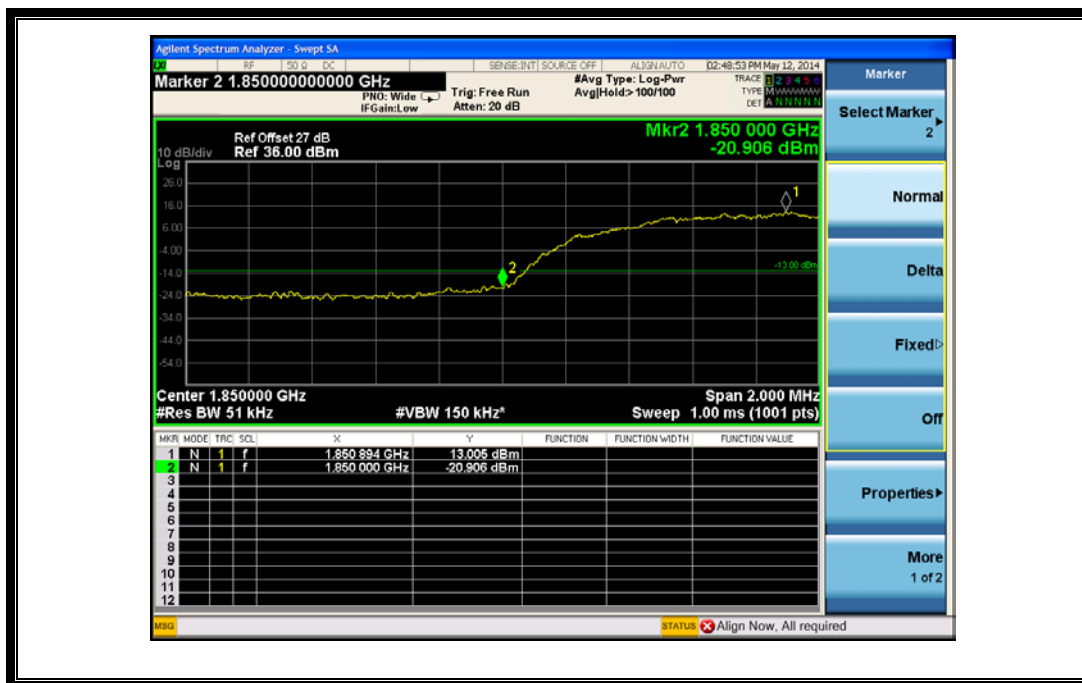
(Plot T: HSUPA 1900 Channel = 9538)



(Plot U: HSPA+ 850 Channel = 4132)



(Plot V: HSPA+ 850 Channel = 4233)



(Plot W: HSPA+ 1900 Channel = 9262)



(Plot X: HSPA+ 1900 Channel = 9538)

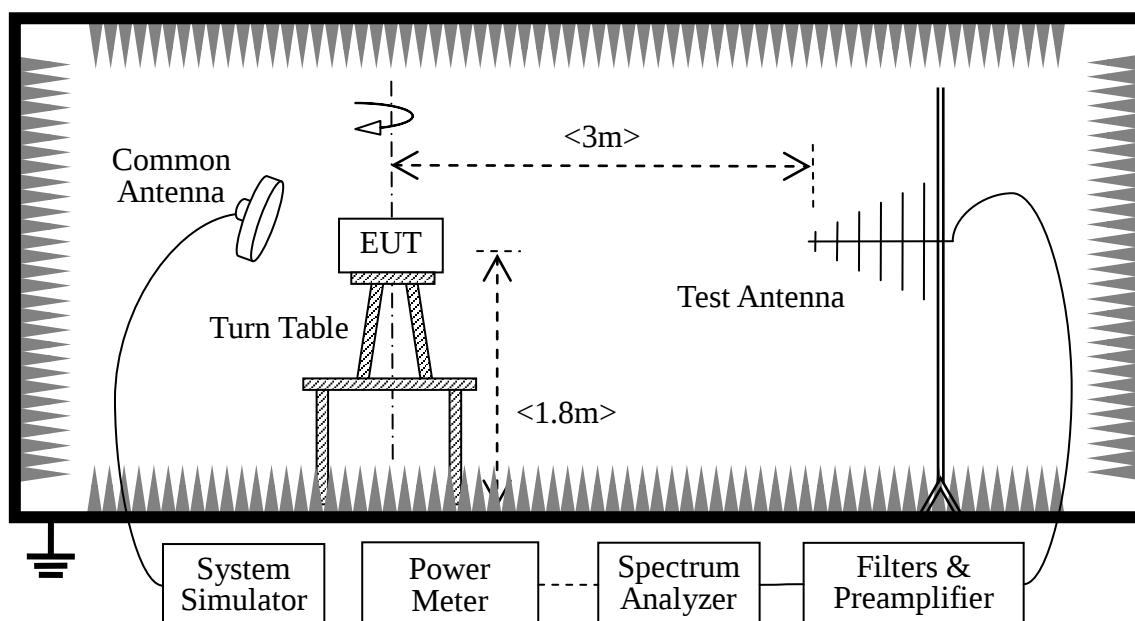
2.7 Transmitter Radiated Power (EIRP/ERP)

2.7.1 Requirement

According to FCC section 22.913, the Effective Radiated Power (ERP) of mobile transmitters and auxiliary test transmitters must not exceed 7Watts, and FCC section 24.232, the broadband PCS mobile station is limited to 2 Watts e.i.r.p. peak power

2.7.2 Test Description

1. Test Setup:



The EUT, which is powered by the Battery charged with the AC Adapter, is located in a 3m Full-Anechoic Chamber; the cable loss, air loss and so on of the site as factors are pre-calibrated using the "Substitution" method, and calculated to correct the reading.

A call is established between the EUT and the SS via a Common Antenna. The EUT is commanded by the SS to operate at the maximum and minimum output power (i.e. GSM850MHz band Power Control Level (PCL) = 5/19 and Power Class = 4, GSM1900MHz band Power Control Level (PCL) = 0/15 and Power Class = 1), and only the test result of the maximum output power was recorded.

- GSM Maximum RF output power: GSM 850 33.00dBm, GSM 1900 29.14dBm, EGPRS 850 33.13dBm, EGPRS 1900 28.98dBm, WCDMA 850 24.87dBm, WCDMA 1900 23.73dBm, Please refer to section 2.1.3 of this report.

- Step size (dB): 3dB

- Minimum RF power: GSM 850 3.1dBm, GSM 1900 0.3dBm, EGPRS 850 3.1dBm, EGPRS 1900

0.21dBm ,WCDMA 850 0.39dBm ,WCDMA 1900 0.5dBm.

The Test Antenna is a Bi-Log one (used for 30MHz to 1GHz) or a Horn one (used for above 3GHz), and it's located at the same height as the EUT. The Filters consists of Notch Filters and High Pass Filter.

2. Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
System Simulator	Agilent	E5515C	GB43130131	2014.02.26	2015.02.25
Spectrum Analyzer	Agilent	E7405A	US44210471	2014.02.26	2015.02.25
Full-Anechoic Chamber	Albatross	9m*6m*6m	(n.a.)	2014.02.26	2015.02.25
Test Antenna - Bi-Log	Schwarzbeck	VULB 9163	9163-274	2014.02.26	2015.02.25
Test Antenna - Horn	Schwarzbeck	BBHA 9120C	9120C-384	2014.02.26	2015.02.25
Substitution Antenna	Schwarzbeck	BBHA 9120C	9120C-384	2014.02.26	2015.02.25
Pre-AMPs	lucix	S10M100L3802	S020180L3203	2014.02.26	2015.02.25
Notch Filter	COM-MW	ZBSF-C836.5-25-X	NA	2014.02.26	2015.02.25
Notch Filter	COM-MW	ZBSF-C1747.5-75-X2	NA	2014.02.26	2015.02.25
Notch Filter	COM-MW	ZBSF-C1880-60-X2	NA	2014.02.26	2015.02.25

2.7.3 Test Result

The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. The lowest, middle and highest channels are tested.

The substitution corrections are obtained as described below:

$$A_{\text{SUBST}} = P_{\text{SUBST_TX}} - P_{\text{SUBST_RX}} - L_{\text{SUBST_CABLES}} + G_{\text{SUBST_TX_ANT}}$$

$$A_{\text{TOT}} = L_{\text{CABLES}} + A_{\text{SUBST}}$$

Where A_{SUBST} is the final substitution correction including receive antenna gain.

$P_{\text{SUBST_TX}}$ is signal generator level,

$P_{\text{SUBST_RX}}$ is receiver level,

$L_{\text{SUBST_CABLES}}$ is cable losses including TX cable,

$G_{\text{SUBST_TX_ANT}}$ is substitution antenna gain.

A_{TOT} is total correction factor including cable loss and substitution correction

During the test, the data of A_{TOT} was added in the Test Spectrum Analyze, so Spectrum Analyze reading is the final values which contain the data of A_{TOT} .

1. GSM Model Test Verdict:

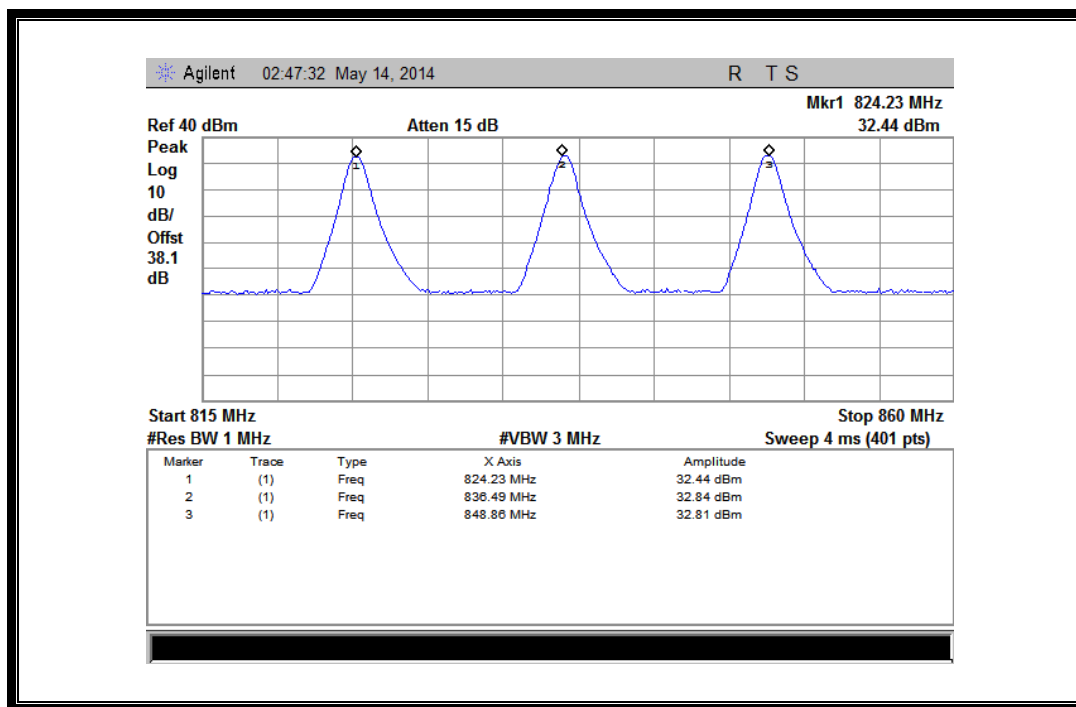
Band	Channel	Frequency (MHz)	PCL	Measured ERP			Limit		Verdict
				dBm	W	Refer to Plot	dBm	W	
GSM 850MHz	128	824.20	5	32.44	1.754	Plot A	38.5	7	PASS
	190	836.60	5	32.84	1.923				PASS
	251	848.80	5	32.81	1.910				PASS
GPRS 850MHz	128	824.20	5	31.02	1.265	Plot B ^{Note 1}	38.5	7	PASS
	190	836.60	5	31.15	1.303				PASS
	251	848.80	5	31.11	1.291				PASS
EGPRS 850MHz	128	824.20	5	32.46	1.762	Plot C ^{Note 1}	38.5	7	PASS
	190	836.60	5	32.93	1.963				PASS
	251	848.80	5	32.74	1.879				PASS
Band	Channel	Frequency (MHz)	PCL	Measured EIRP			Limit		Verdict
				dBm	W	Refer to Plot	dBm	W	
GSM 1900MHz	512	1850.2	0	29.18	0.828	Plot D	33	2	PASS
	661	1880.0	0	29.59	0.910				PASS
	810	1909.8	0	28.88	0.773				PASS
GPRS 1900MHz	512	1850.2	0	28.33	0.681	Plot E ^{Note 1}	33	2	PASS
	661	1880.0	0	28.5	0.708				PASS
	810	1909.8	0	28.24	0.667				PASS
EGPRS 1900MHz	512	1850.2	0	29.74	0.942	Plot F ^{Note 1}	33	2	PASS
	661	1880.0	0	29.38	0.867				PASS
	810	1909.8	0	28.93	0.782				PASS
Note 1:	For the GPRS and EGPRS model, all the slots were tested and just the worst data was record in this report.								

2. WCDMA Model Test Verdict:

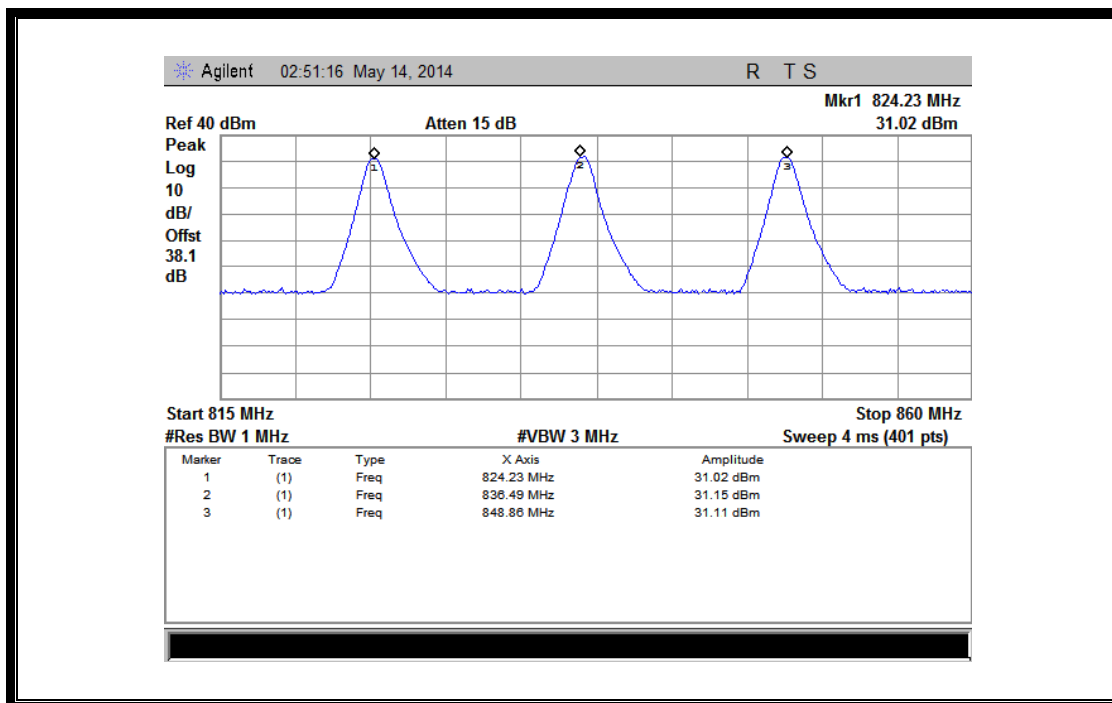
Band	Channel	Frequency (MHz)	Measured ERP			Limit		Verdict
			dBm	W	Refer to Plot	dBm	W	
WCDMA 850MHz	4132	826.4	26.38	0.435	Plot G	38.5	7	PASS
	4175	835	26.83	0.482				PASS
	4233	846.6	26.51	0.448				PASS
HSDPA 850MHz	4132	826.4	26.31	0.428	Plot H	38.5	7	PASS
	4175	835	27	0.501				PASS
	4233	846.6	26.35	0.432				PASS
HSUPA 850MHz	4132	826.4	26.29	0.426	Plot I	38.5	7	PASS
	4175	835	26.91	0.491				PASS
	4233	846.6	26.41	0.438				PASS
HSPA+ 850MHz	4132	826.4	26.28	0.425	Plot J	38.5	7	PASS
	4175	835	26.94	0.494				PASS
	4233	846.6	26.44	0.441				PASS

Band	Channel	Frequency (MHz)	Measured EIRP			Limit		Verdict
			dBm	W		dBm	W	
WCDMA 1900MHz	9262	1852.4	24.65	0.292	Plot K	33	2	PASS
	9400	1880	24.81	0.303				PASS
	9538	1907.6	24.31	0.270				PASS
HSDPA 1900MHz	9262	1852.4	24.35	0.272	Plot L	33	2	PASS
	9400	1880	24.79	0.301				PASS
	9538	1907.6	24.45	0.279				PASS
HSUPA 1900MHz	9262	1852.4	24.93	0.311	Plot M	33	2	PASS
	9400	1880	24.81	0.303				PASS
	9538	1907.6	24.68	0.294				PASS
HSPA+ 1900MHz	9262	1852.4	24.81	0.303	Plot N	33	2	PASS
	9400	1880	24.8	0.302				PASS
	9538	1907.6	25.4	0.347				PASS

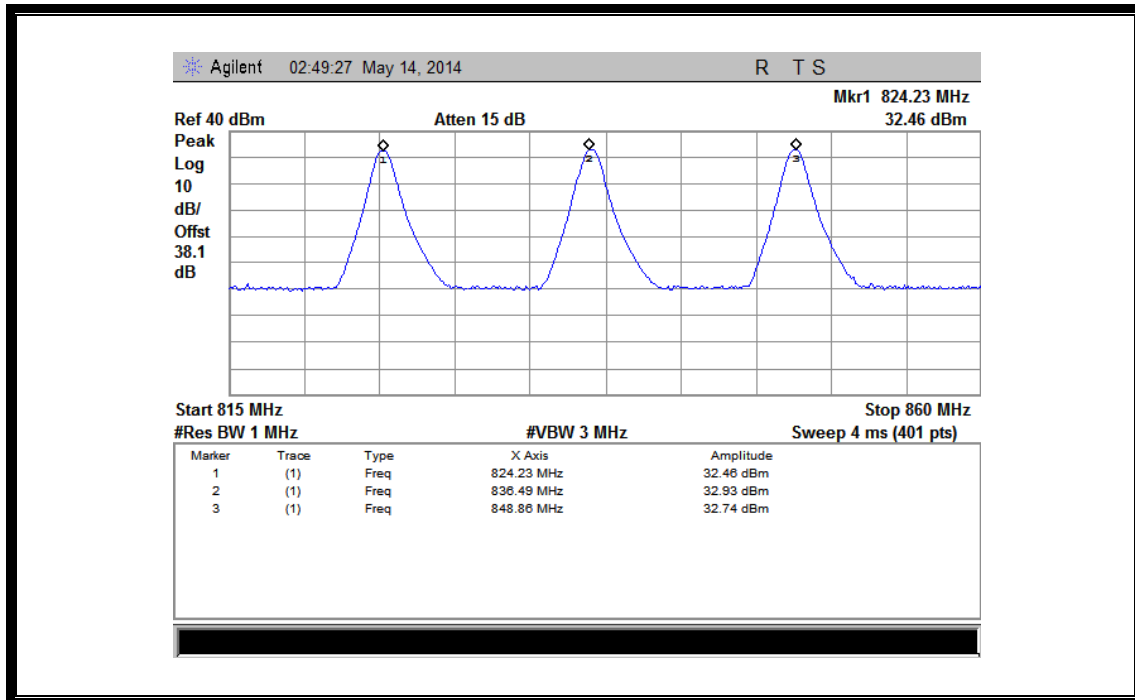
3. Test Plots:



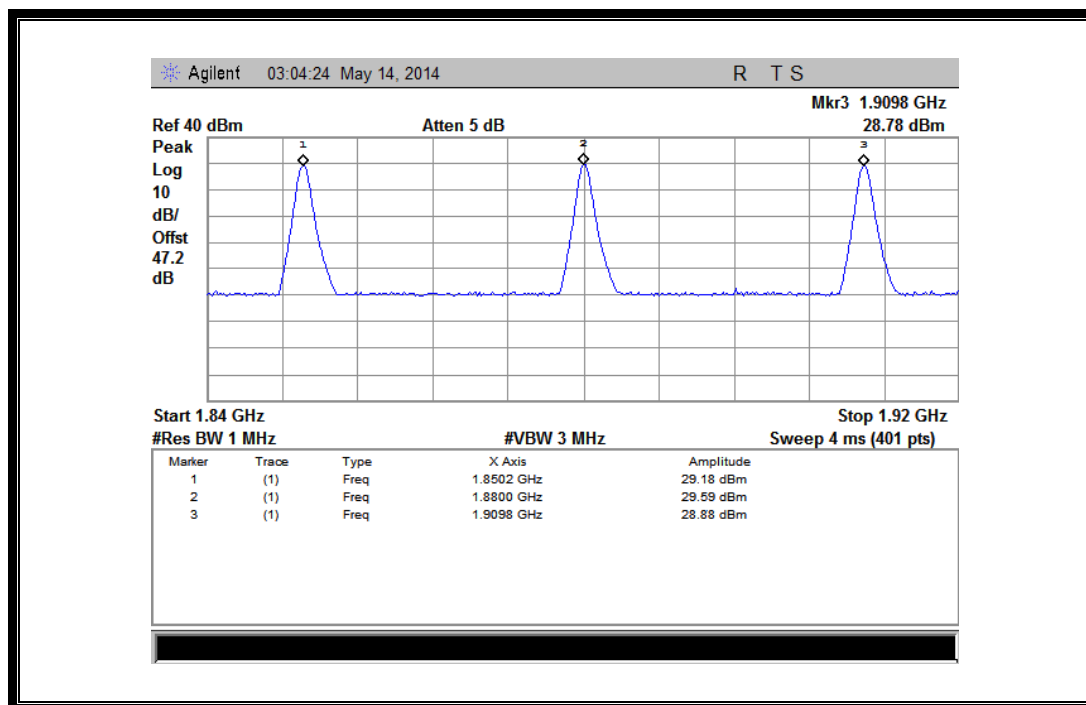
(Plot A: GSM 850MHz Channel = 128, 190, 251)



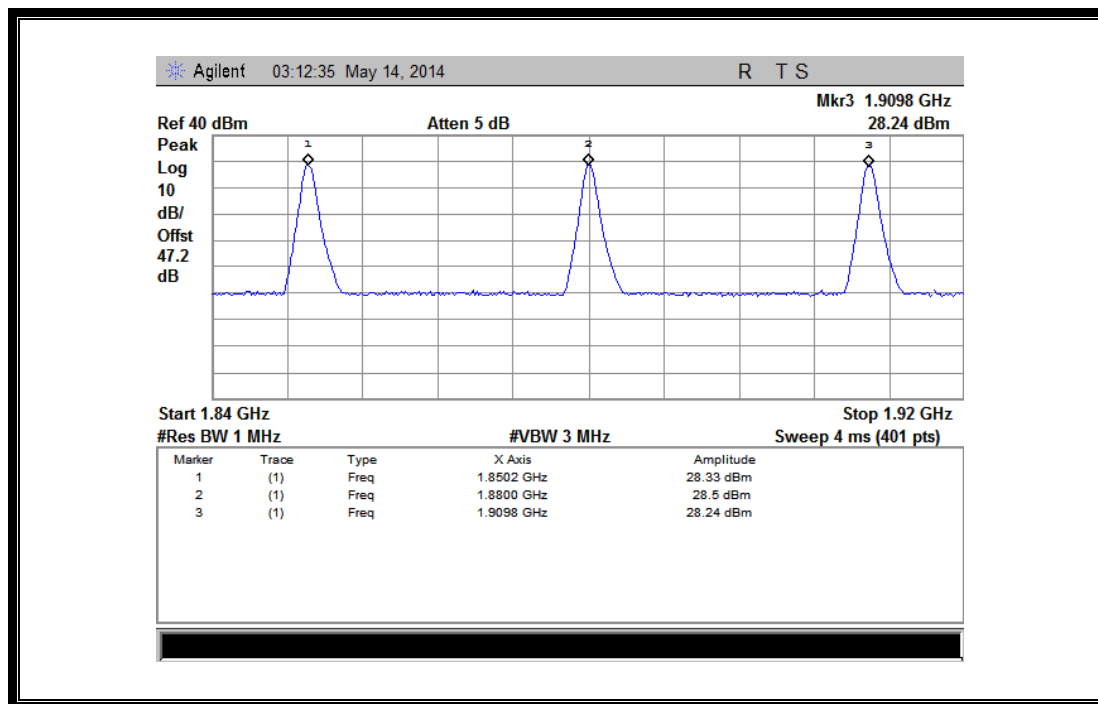
(Plot B: GPRS 850MHz Channel = 128, 190, 251)



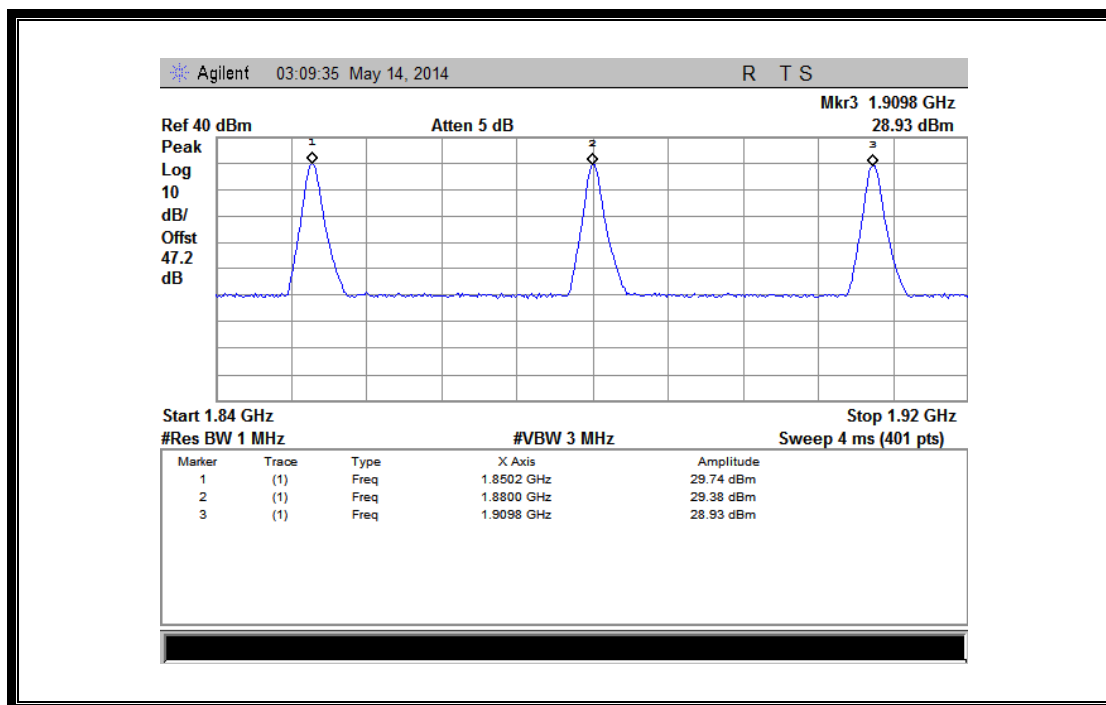
(Plot C: EGPRS 850MHz Channel = 128, 190, 251)



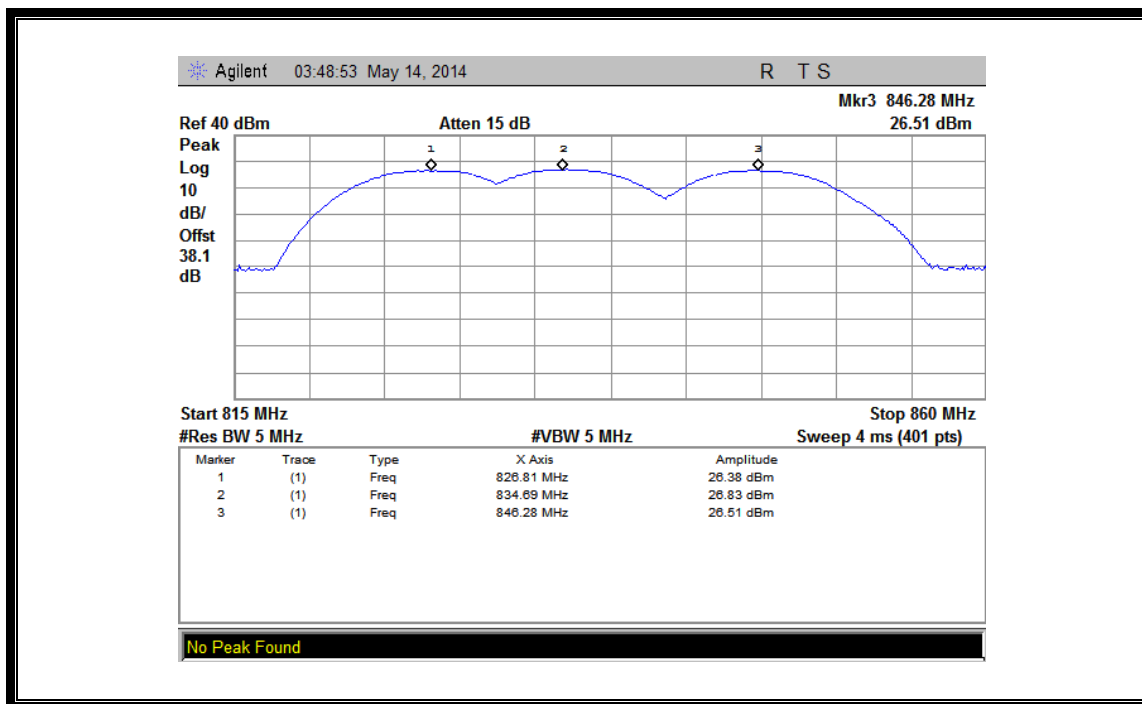
(Plot D: GSM 1900MHz Channel = 512, 661, 810)



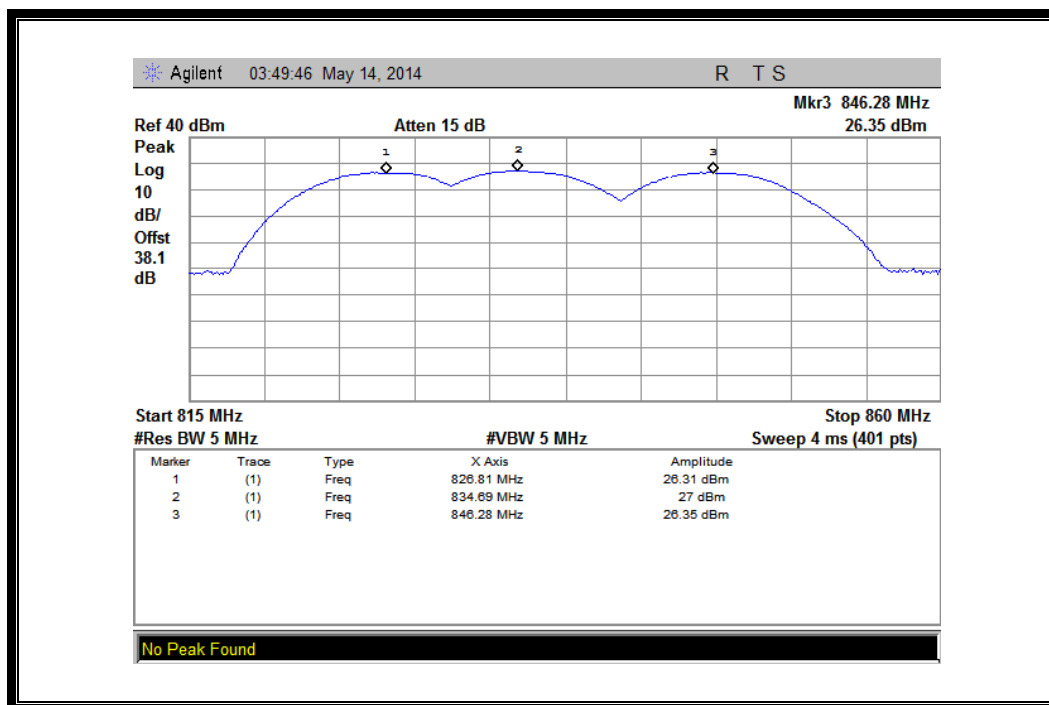
(Plot E: GPRS 1900MHz Channel = 512, 661, 810)



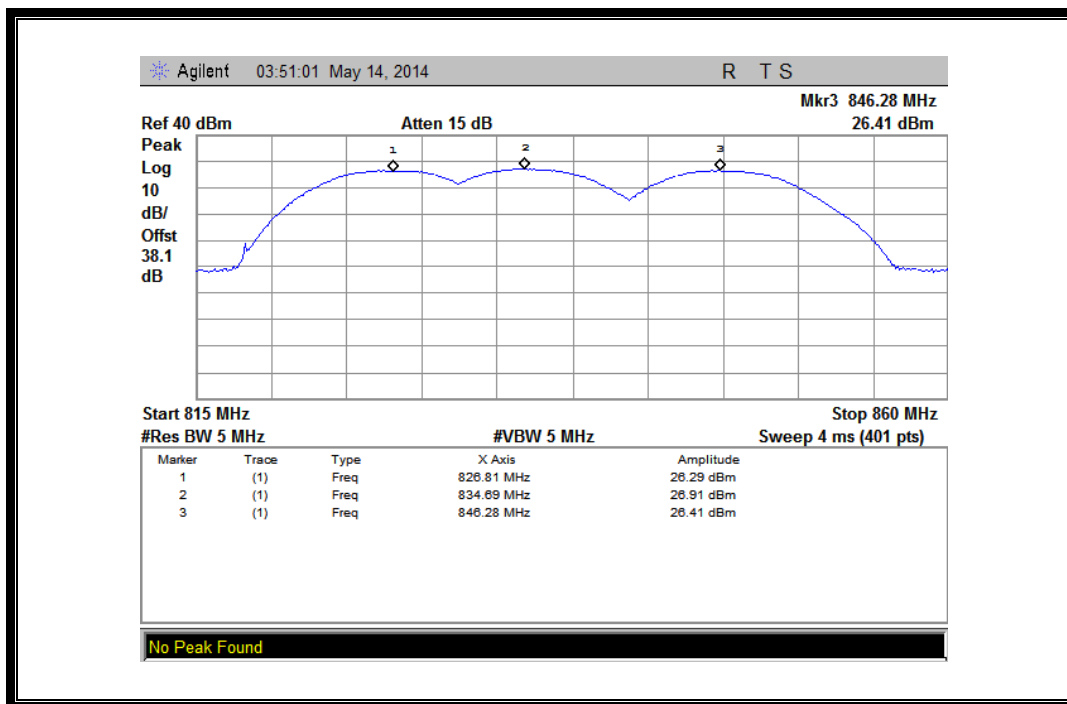
(Plot F: EGPRS 1900MHz Channel = 512, 661, 810)



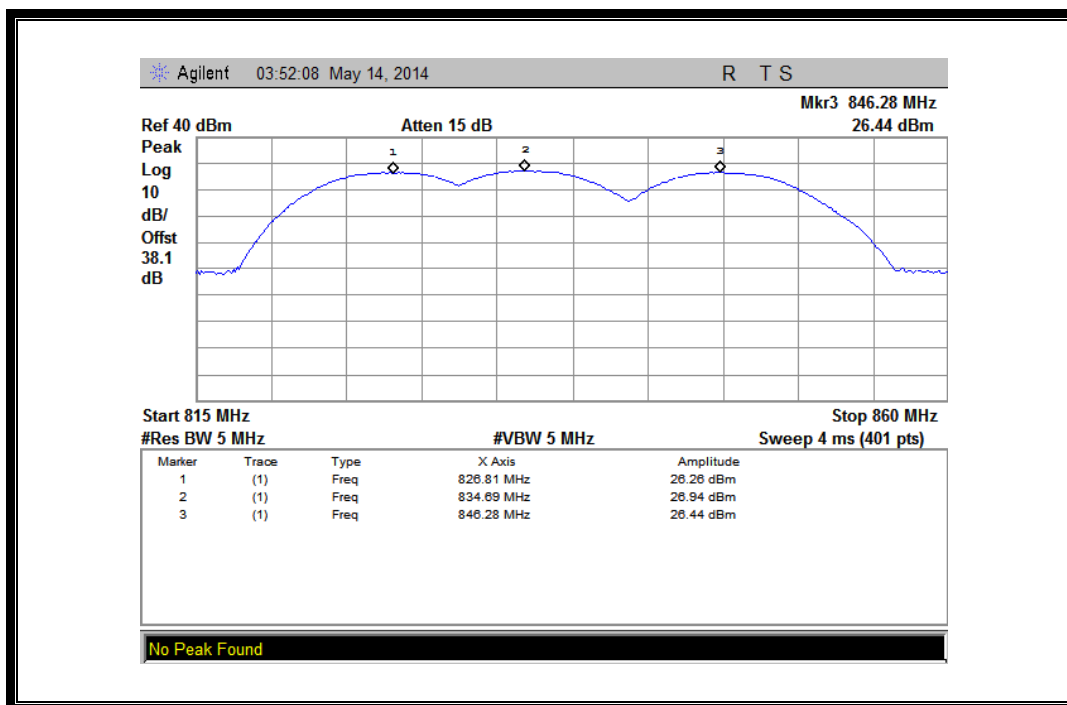
(Plot G: WCDMA 850 MHz Channel = 4132, 4175, 4233)



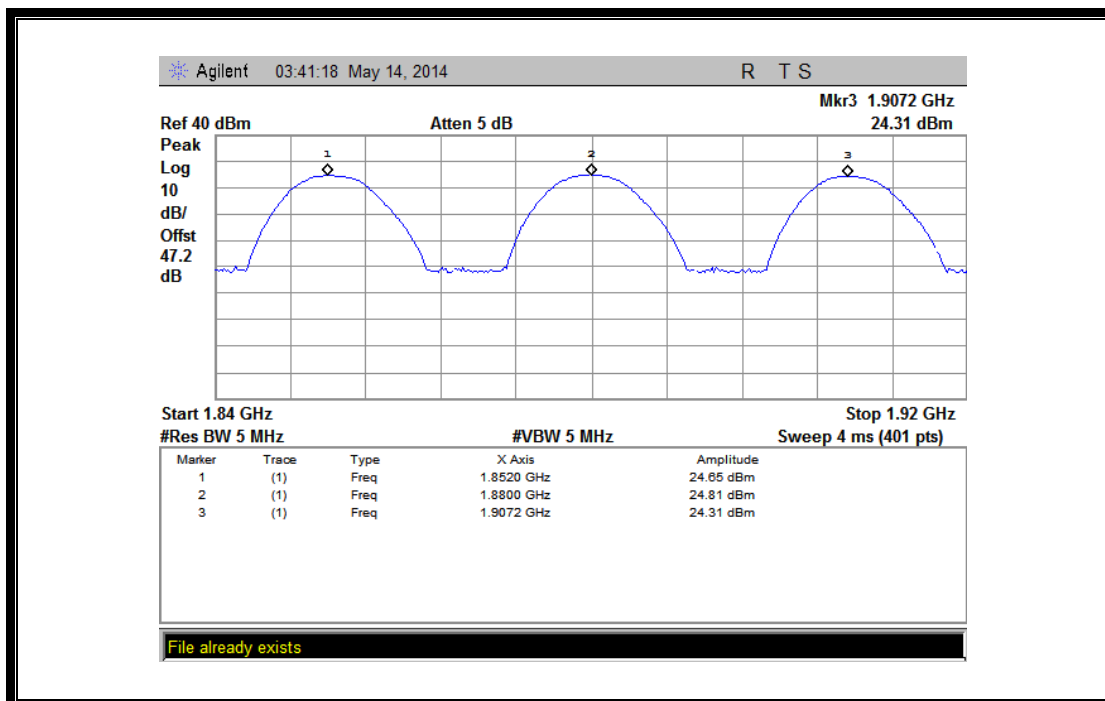
(Plot H: HSDPA 850 MHz Channel = 4132, 4175, 4233)



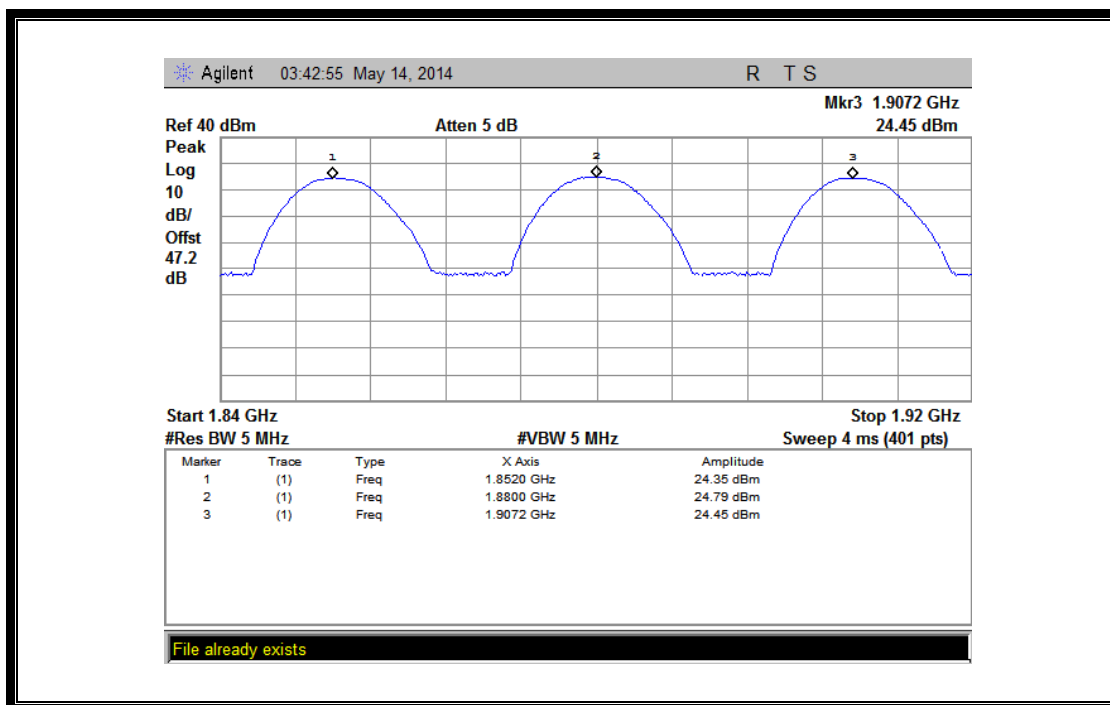
(Plot I: HSUPA 850 MHz Channel = 4132, 4175, 4233)



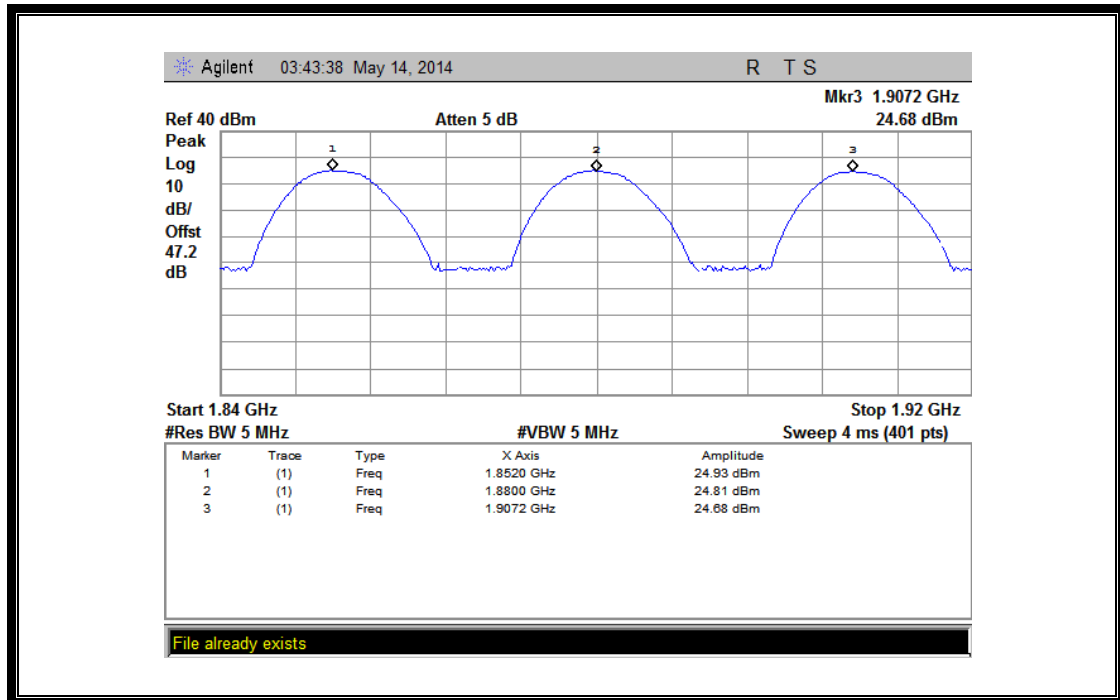
(Plot J: HSPA+ 850 MHz Channel = 4132, 4175, 4233)



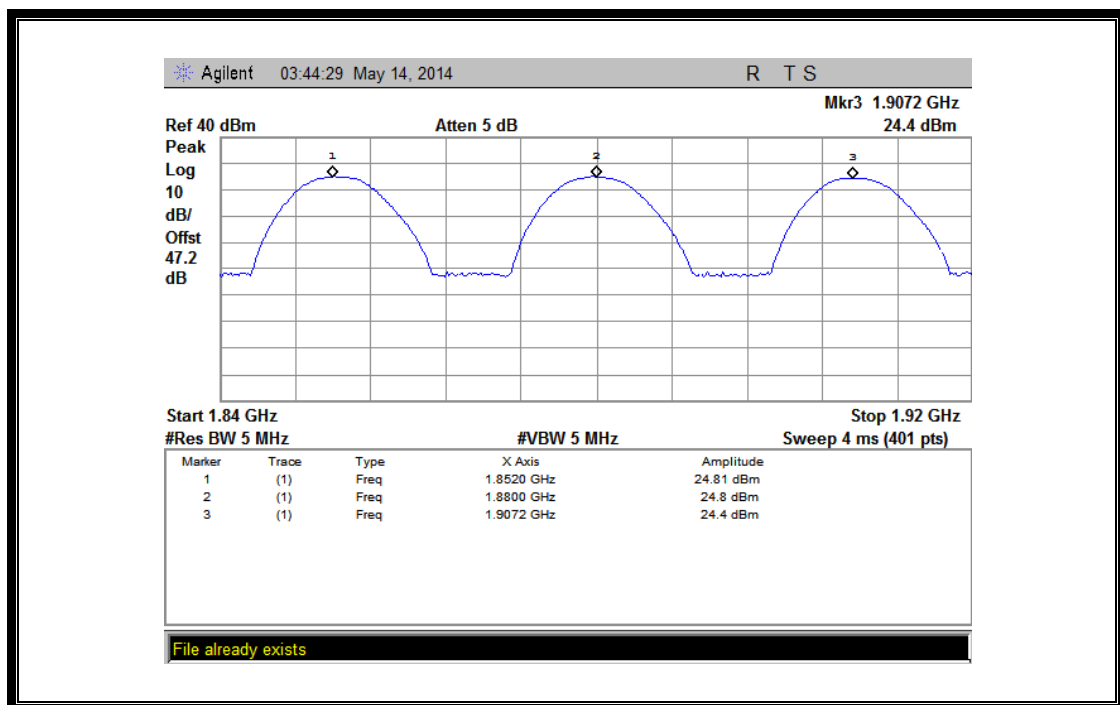
(Plot K: WCDMA 1900 MHz Channel = 9262, 9400, 9538)



(Plot L: HSDPA 1900 MHz Channel = 9262, 9400, 9538)



(Plot M: HSUPA1900 MHz Channel = 9262, 9400, 9538)



(Plot N: HSPA+ 1900 MHz Channel = 9262, 9400, 9538)

2.8 Radiated Out of Band Emissions

2.8.1 Requirement

According to FCC section 22.917(a) and section 24.238(a) the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43+10*\log(P)$ dB. This calculated to be -13dBm.

The spurious emission with frequency band 1900 according to FCC section 2.1057.

2.8.2 Test Description

See section 2.7.2 of this report.

Equipment List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
System Simulator	Agilent	E5515C	GB43130131	2014.02.26	2015.02.25
Spectrum Analyzer	Agilent	E7405A	US44210471	2014.02.26	2015.02.25
Full-Anechoic Chamber	Albatross	9m*6m*6m	(n.a.)	2014.02.26	2015.02.25
Test Antenna - Bi-Log	Schwarzbeck	VULB 9163	9163-274	2014.02.26	2015.02.25
Test Antenna - Horn	Schwarzbeck	BBHA 9120C	9120C-384	2014.02.26	2015.02.25
Substitution Antenna	Schwarzbeck	BBHA 9120C	9120C-384	2014.02.26	2015.02.25
Pre-AMPs	lucix	S10M100L3802	S020180L3203	2014.02.26	2015.02.25
Notch Filter	COM-MW	ZBSF-C836.5-25-X	NA	2014.02.26	2015.02.25
Notch Filter	COM-MW	ZBSF-C1747.5-75-X2	NA	2014.02.26	2015.02.25
Notch Filter	COM-MW	ZBSF-C1880-60-X2	NA	2014.02.26	2015.02.25

Note: when doing measurements above 1GHz, the EUT has been within the 3dB cone width of the horn antenna during horizontal antenna.

2.8.3 Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. The lowest, middle and highest channels are tested to verify the out of band emissions.

1. Test Verdict:

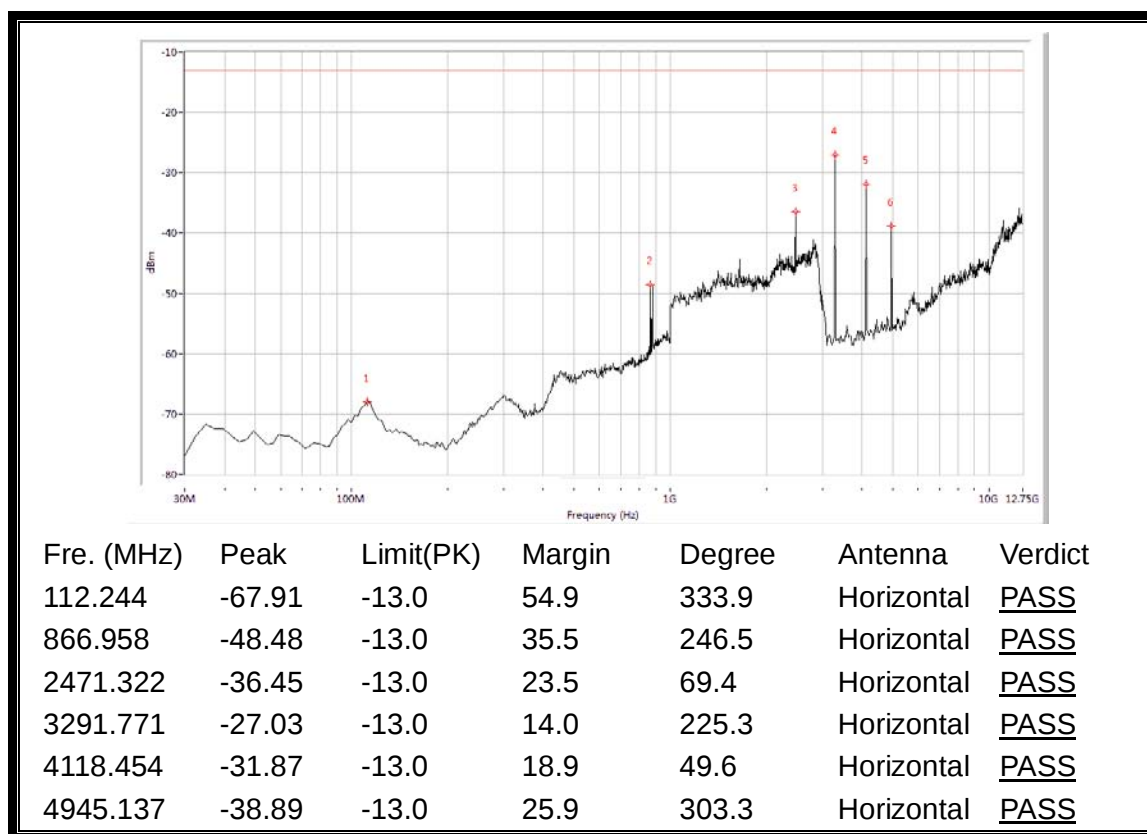
Band	Channel	Frequency (MHz)	Measured Max. Spurious Emission (dBm)		Refer to Plot	Limit (dBm)	Verdict
			Test Antenna Horizontal	Test Antenna Vertical			
GSM 850MHz	128	824.2	< -25	< -25	Plot A.1/A.2	-13	<u>PASS</u>
	190	836.6	< -25	< -25	Plot A.3/A.4		<u>PASS</u>
	251	848.8	< -25	< -25	Plot A.5/A.6		<u>PASS</u>
GSM 1900MHz	512	1850.2	< -25	< -25	Plot B.1/B.2	-13	<u>PASS</u>
	661	1880.0	< -25	< -25	Plot B.3/B.4		<u>PASS</u>
	810	1909.8	< -25	< -25	Plot B.5/B.6		<u>PASS</u>
EDGE 850MHz	128	824.2	< -25	< -25	Plot C.1/C.2	-13	<u>PASS</u>
	190	836.6	< -25	< -25	Plot C.3/C.4		<u>PASS</u>
	251	848.8	< -25	< -25	Plot C.5/C.6		<u>PASS</u>
EDGE 1900MHz	512	1850.2	< -25	< -25	Plot D.1/D.2	-13	<u>PASS</u>
	661	1880.0	< -25	< -25	Plot D.3/D.4		<u>PASS</u>
	810	1909.8	< -25	< -25	Plot D.5/D.6		<u>PASS</u>
WCDMA 850MHz	4132	826.4	< -25	< -25	Plot E.1/E.2	-13	<u>PASS</u>
	4175	835	< -25	< -25	Plot E.3/E.4		<u>PASS</u>
	4233	846.6	< -25	< -25	Plot E.5/E.6		<u>PASS</u>
WCDMA 1900MHz	9262	1852.4	< -25	< -25	Plot F.1/F.2	-13	<u>PASS</u>
	9400	1880	< -25	< -25	Plot F.3/F.4		<u>PASS</u>
	9538	1907.6	< -25	< -25	Plot F.5/F.6		<u>PASS</u>
HSDPA 850MHz	4132	826.4	< -25	< -25	Plot G.1/G.2	-13	<u>PASS</u>
	4175	835	< -25	< -25	Plot G.3/G.4		<u>PASS</u>
	4233	846.6	< -25	< -25	Plot G.5/G.6		<u>PASS</u>
HSDPA 1900MHz	9262	1852.4	< -25	< -25	Plot H.1/H.2	-13	<u>PASS</u>
	9400	1880	< -25	< -25	Plot H.3/H.4		<u>PASS</u>
	9538	1907.6	< -25	< -25	Plot H.5/H.6		<u>PASS</u>
HSUPA 850MHz	4132	826.4	< -25	< -25	Plot I.1/I.2	-13	<u>PASS</u>
	4175	835	< -25	< -25	Plot I.3/I.4		<u>PASS</u>
	4233	846.6	< -25	< -25	Plot I.5/I.6		<u>PASS</u>
HSUPA 1900MHz	9262	1852.4	< -25	< -25	Plot J.1/J.2	-13	<u>PASS</u>
	9400	1880	< -25	< -25	Plot J.3/J.4		<u>PASS</u>
	9538	1907.6	< -25	< -25	Plot J.5/J.6		<u>PASS</u>
HSPA+ 850MHz	4132	826.4	< -25	< -25	Plot K.1/K.2	-13	<u>PASS</u>
	4175	835	< -25	< -25	Plot K.3/K.4		<u>PASS</u>
	4233	846.6	< -25	< -25	Plot K.5/K.6		<u>PASS</u>
HSPA+ 1900MHz	9262	1852.4	< -25	< -25	Plot L.1/L.2	-13	<u>PASS</u>
	9400	1880	< -25	< -25	Plot L.3/L.4		<u>PASS</u>

Band	Channel	Frequency (MHz)	Measured Max. Spurious Emission (dBm)		Refer to Plot	Limit (dBm)	Verdict
			Test Antenna Horizontal	Test Antenna Vertical			
	9538	1907.6	< -25	< -25	Plot L.5/L.6		<u>PASS</u>

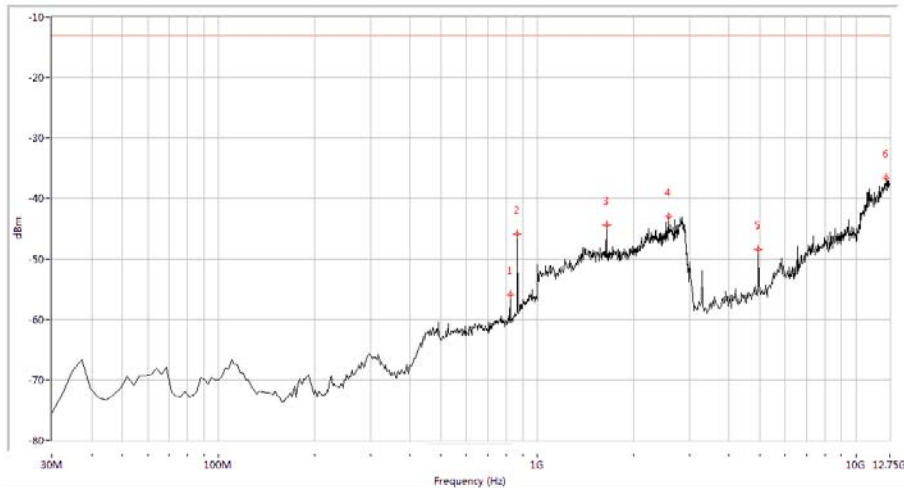
2. Test Plots for the Whole Measurement Frequency Range:

Note1: the power of the EUT transmitting frequency should be ignored.

Note2: All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

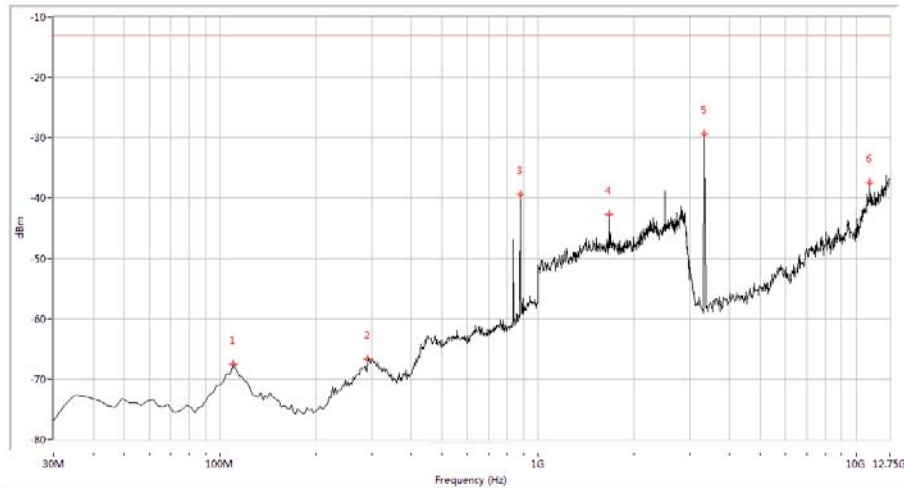


(Plot A.1: GSM 850MHz Channel = 128, Test Antenna Horizontal)



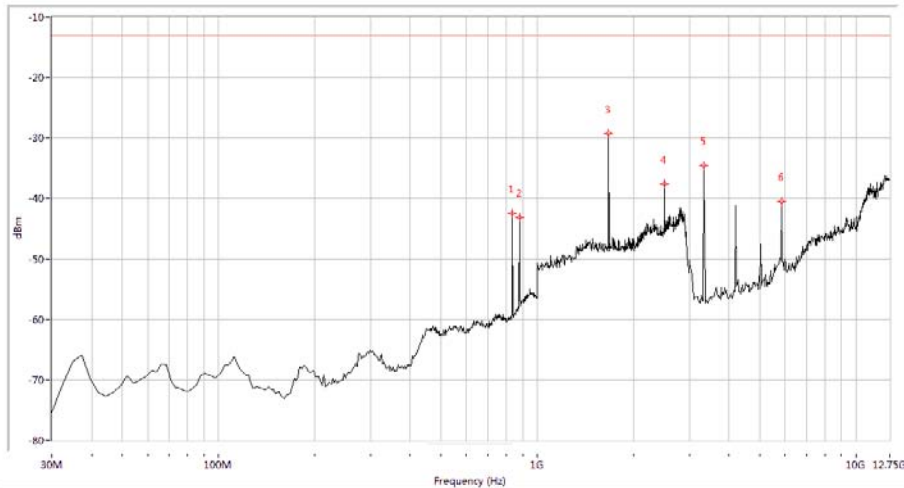
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
823.416	-55.91	-13.0	42.9	216.5	Vertical	<u>PASS</u>
866.958	-45.85	-13.0	32.8	172.0	Vertical	<u>PASS</u>
1648.379	-44.33	-13.0	31.3	239.3	Vertical	<u>PASS</u>
2581.047	-42.95	-13.0	30.0	272.7	Vertical	<u>PASS</u>
4945.137	-48.46	-13.0	35.5	68.1	Vertical	<u>PASS</u>
12482.544	-36.64	-13.0	23.6	285.3	Vertical	<u>PASS</u>

(Plot A.2: GSM 850MHz Channel = 128, Test Antenna Vertical)



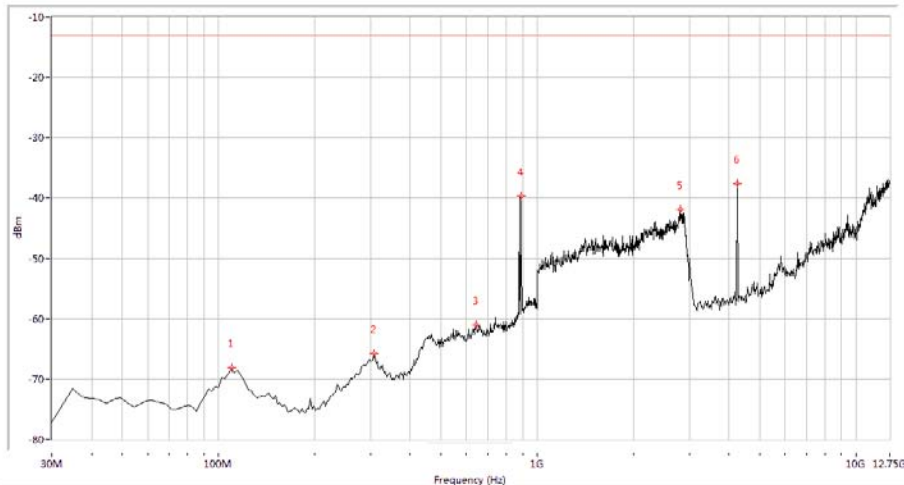
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-67.48	-13.0	54.5	1.2	Horizontal	<u>PASS</u>
291.247	-66.70	-13.0	53.7	36.6	Horizontal	<u>PASS</u>
879.052	-39.38	-13.0	26.4	23.9	Horizontal	<u>PASS</u>
1673.317	-42.64	-13.0	29.6	265.9	Horizontal	<u>PASS</u>
3340.399	-29.45	-13.0	16.4	263.1	Horizontal	<u>PASS</u>
11048.005	-37.44	-13.0	24.4	133.2	Horizontal	<u>PASS</u>

(Plot A.3: GSM 850MHz Channel = 190, Test Antenna Horizontal)



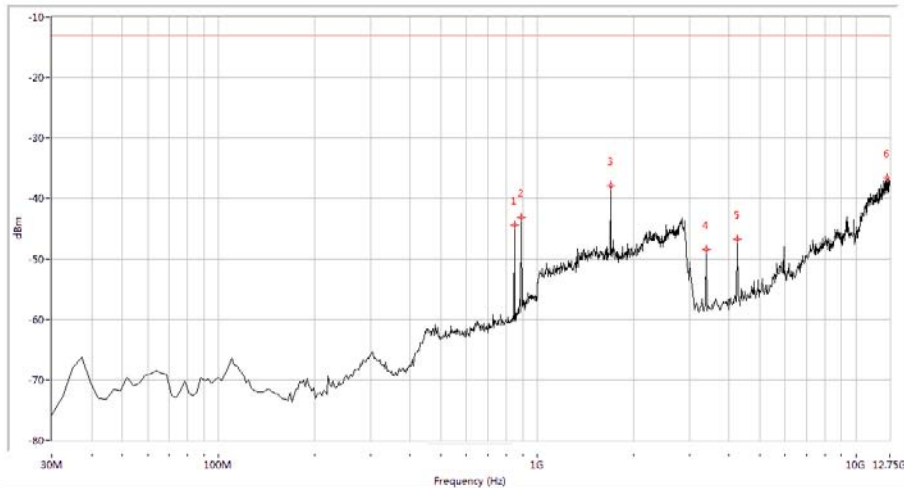
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
835.511	-42.50	-13.0	29.5	292.2	Vertical	<u>PASS</u>
879.052	-43.11	-13.0	30.1	204.8	Vertical	<u>PASS</u>
1673.317	-29.24	-13.0	16.2	253.6	Vertical	<u>PASS</u>
2506.234	-37.62	-13.0	24.6	57.6	Vertical	<u>PASS</u>
3340.399	-34.51	-13.0	21.5	35.4	Vertical	<u>PASS</u>
5844.763	-40.48	-13.0	27.5	146.2	Vertical	<u>PASS</u>

(Plot A.4: GSM 850MHz Channel = 190, Test Antenna Vertical)



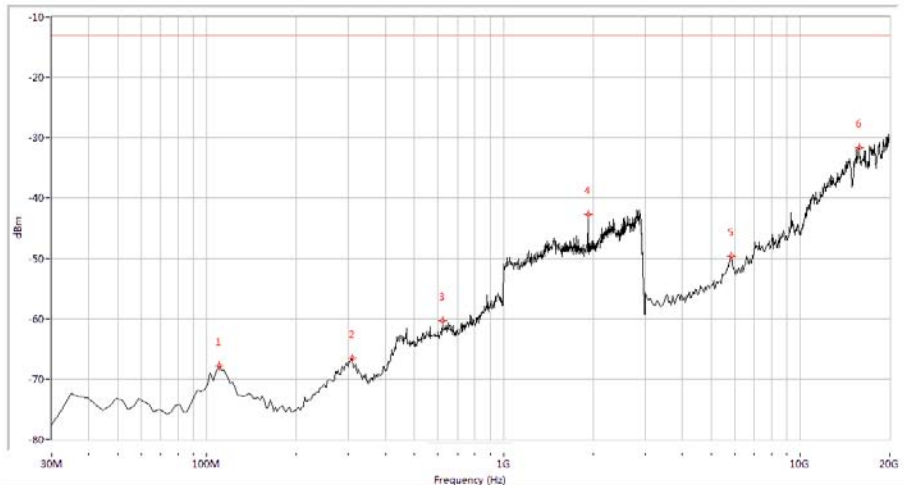
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-68.03	-13.0	55.0	360.0	Horizontal	<u>PASS</u>
308.180	-65.76	-13.0	52.8	305.7	Horizontal	<u>PASS</u>
641.995	-61.03	-13.0	48.0	294.9	Horizontal	<u>PASS</u>
891.147	-39.71	-13.0	26.7	54.5	Horizontal	<u>PASS</u>
2810.474	-41.86	-13.0	28.9	7.9	Horizontal	<u>PASS</u>
4240.025	-37.56	-13.0	24.6	358.3	Horizontal	<u>PASS</u>

(Plot A.5: GSM 850MHz Channel = 251, Test Antenna Horizontal)



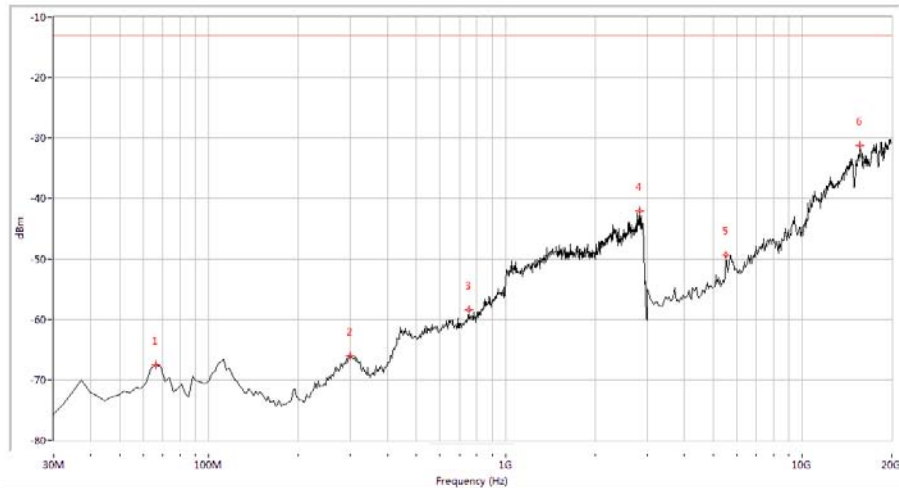
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
847.606	-44.40	-13.0	31.4	156.3	Vertical	<u>PASS</u>
891.147	-43.14	-13.0	30.1	27.0	Vertical	<u>PASS</u>
1698.254	-37.92	-13.0	24.9	81.2	Vertical	<u>PASS</u>
3389.027	-48.39	-13.0	35.4	234.9	Vertical	<u>PASS</u>
4240.025	-46.67	-13.0	33.7	339.5	Vertical	<u>PASS</u>
12555.486	-36.57	-13.0	23.6	8.8	Vertical	<u>PASS</u>

(Plot A.6: GSM 850MHz Channel = 251, Test Antenna Vertical)



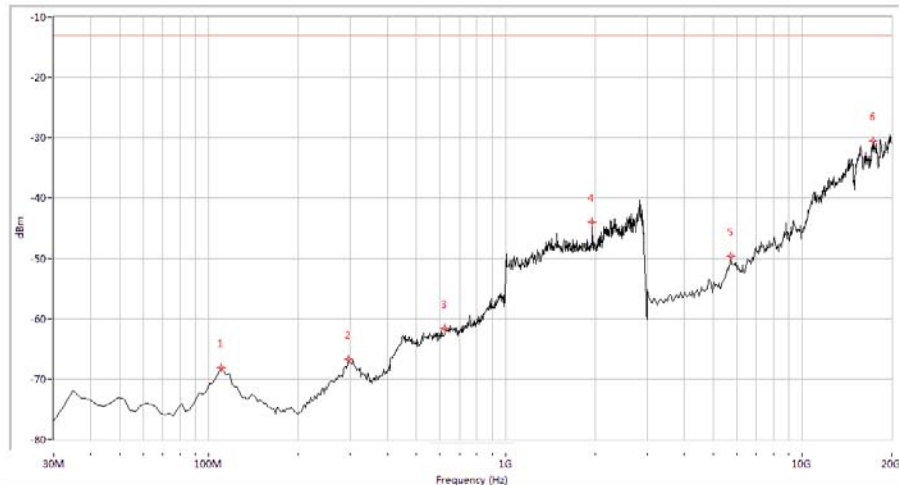
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-67.87	-13.0	54.9	136.5	Horizontal	<u>PASS</u>
308.180	-66.57	-13.0	53.6	24.7	Horizontal	<u>PASS</u>
622.643	-60.32	-13.0	47.3	32.9	Horizontal	<u>PASS</u>
1927.681	-42.67	-13.0	29.7	8.0	Horizontal	<u>PASS</u>
5840.399	-49.63	-13.0	36.6	206.1	Horizontal	<u>PASS</u>
15802.993	-31.60	-13.0	18.6	189.2	Horizontal	<u>PASS</u>

(Plot B.1: GSM 1900MHz Channel = 512, Test Antenna Horizontal)



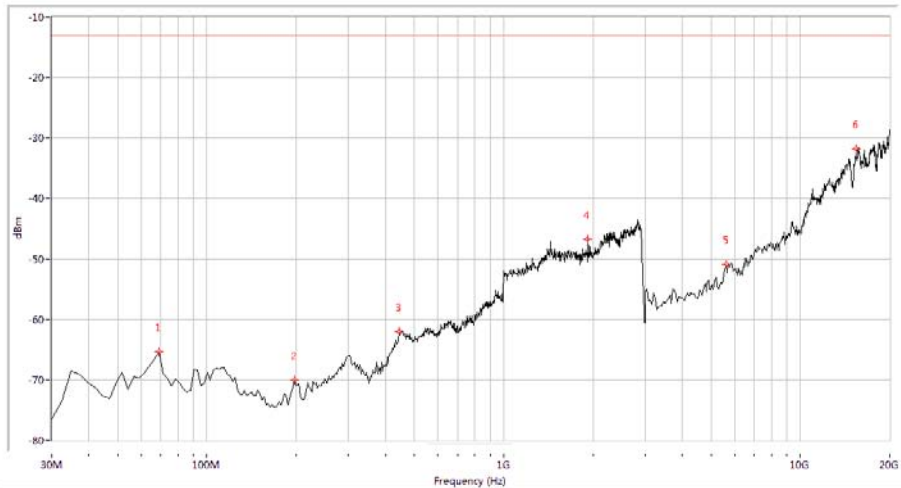
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
66.284	-67.48	-13.0	54.5	0.1	Vertical	<u>PASS</u>
298.504	-66.05	-13.0	53.0	133.8	Vertical	<u>PASS</u>
750.848	-58.32	-13.0	45.3	1.2	Vertical	<u>PASS</u>
2835.411	-41.96	-13.0	29.0	261.0	Vertical	<u>PASS</u>
5543.641	-49.33	-13.0	36.3	106.9	Vertical	<u>PASS</u>
15675.810	-31.21	-13.0	18.2	171.7	Vertical	<u>PASS</u>

(Plot B.2: GSM 1900MHz Channel = 512, Test Antenna Vertical)



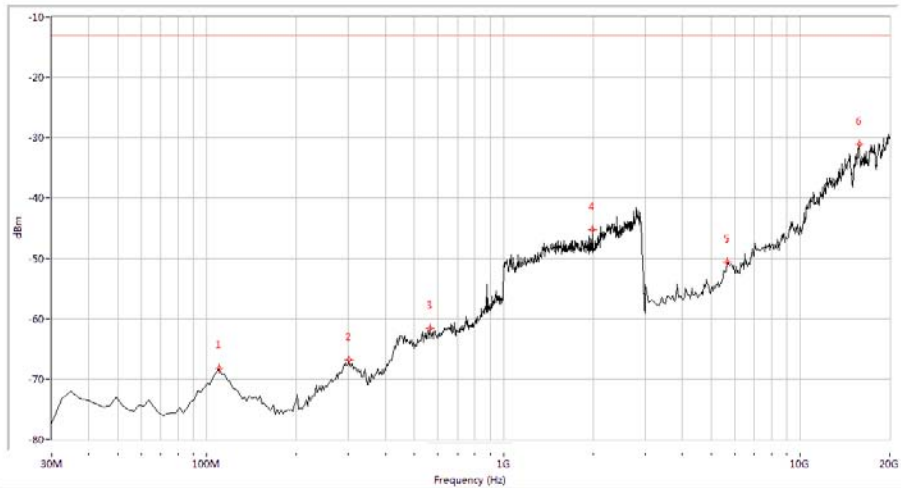
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-68.07	-13.0	55.1	144.8	Horizontal	<u>PASS</u>
296.085	-66.63	-13.0	53.6	310.5	Horizontal	<u>PASS</u>
625.062	-61.59	-13.0	48.6	160.8	Horizontal	<u>PASS</u>
1957.606	-43.92	-13.0	30.9	-0.0	Horizontal	<u>PASS</u>
5755.611	-49.68	-13.0	36.7	80.8	Horizontal	<u>PASS</u>
17286.783	-30.53	-13.0	17.5	251.1	Horizontal	<u>PASS</u>

(Plot B.3: GSM 1900MHz Channel = 661, Test Antenna Horizontal)



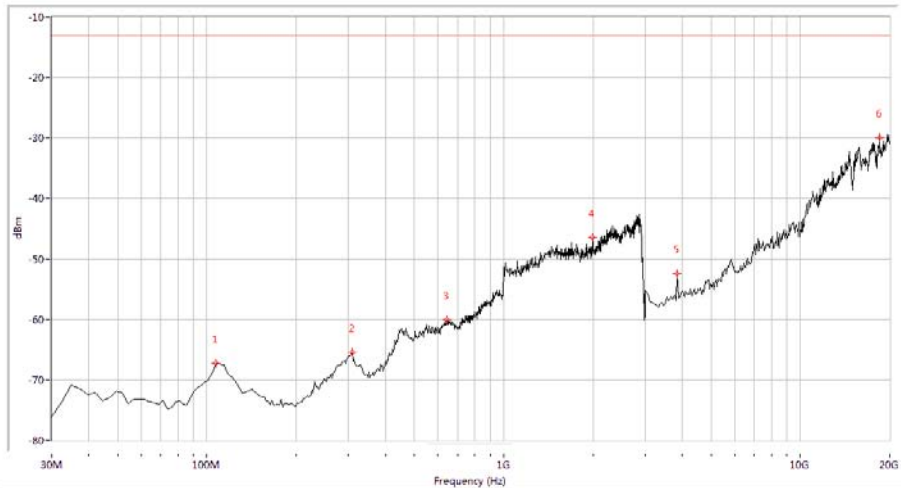
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
68.703	-65.34	-13.0	52.3	78.3	Vertical	<u>PASS</u>
196.908	-69.98	-13.0	57.0	43.1	Vertical	<u>PASS</u>
443.641	-62.01	-13.0	49.0	315.6	Vertical	<u>PASS</u>
1917.706	-46.77	-13.0	33.8	19.6	Vertical	<u>PASS</u>
5628.429	-50.96	-13.0	38.0	69.1	Vertical	<u>PASS</u>
15379.052	-31.76	-13.0	18.8	54.2	Vertical	<u>PASS</u>

(Plot B.4: GSM 1900MHz Channel = 661, Test Antenna Vertical)



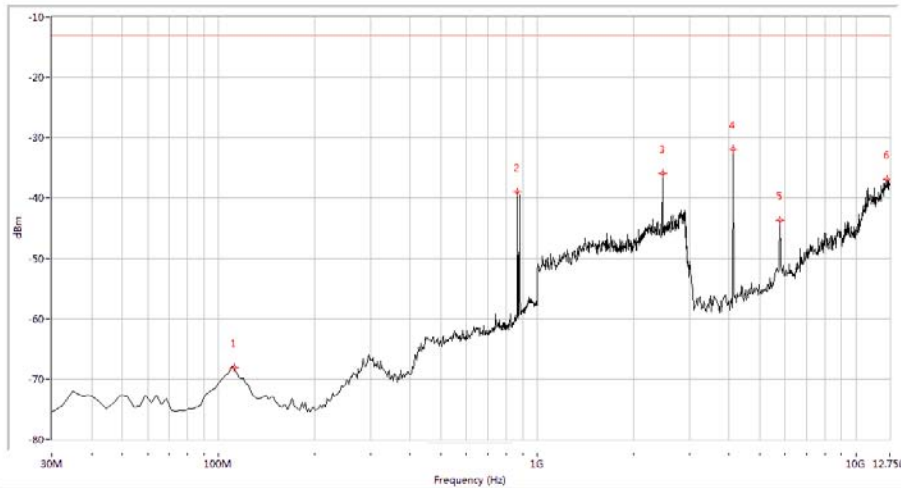
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-68.25	-13.0	55.2	50.5	Horizontal	<u>PASS</u>
300.923	-66.89	-13.0	53.9	359.4	Horizontal	<u>PASS</u>
564.589	-61.53	-13.0	48.5	114.1	Horizontal	<u>PASS</u>
1987.531	-45.18	-13.0	32.2	22.1	Horizontal	<u>PASS</u>
5670.823	-50.63	-13.0	37.6	63.1	Horizontal	<u>PASS</u>
15802.993	-31.06	-13.0	18.1	111.5	Horizontal	<u>PASS</u>

(Plot B.5: GSM 1900MHz Channel = 810, Test Antenna Horizontal)



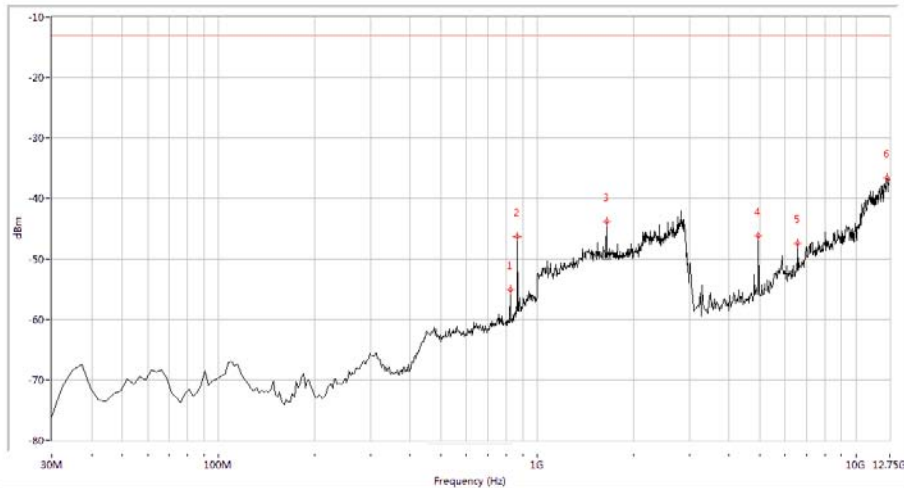
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
107.406	-67.28	-13.0	54.3	122.0	Vertical	<u>PASS</u>
308.180	-65.47	-13.0	52.5	101.2	Vertical	<u>PASS</u>
644.414	-60.09	-13.0	47.1	360.0	Vertical	<u>PASS</u>
1987.531	-46.48	-13.0	33.5	195.1	Vertical	<u>PASS</u>
3847.880	-52.37	-13.0	39.4	286.3	Vertical	<u>PASS</u>
18516.209	-29.97	-13.0	17.0	-0.0	Vertical	<u>PASS</u>

(Plot B.6: GSM 1900MHz Channel = 810, Test Antenna Vertical)



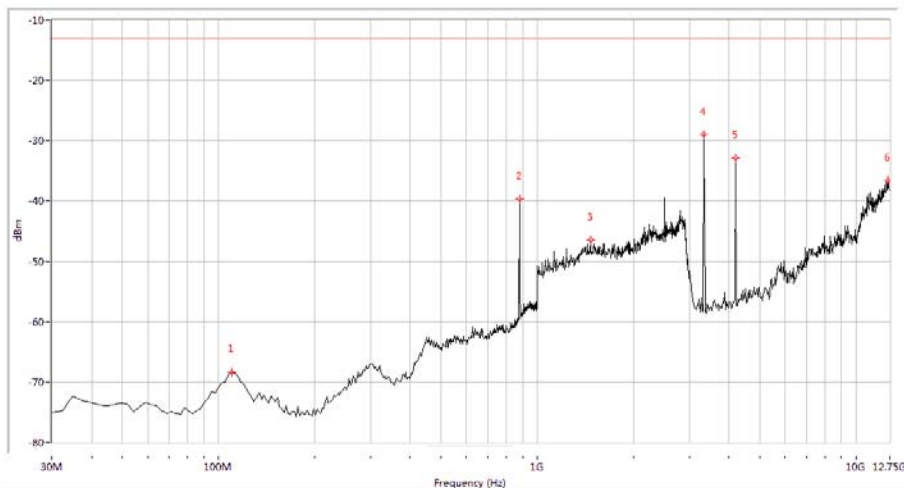
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
112.244	-68.01	-13.0	55.0	256.7	Horizontal	<u>PASS</u>
866.958	-38.92	-13.0	25.9	294.1	Horizontal	<u>PASS</u>
2471.322	-35.95	-13.0	22.9	214.5	Horizontal	<u>PASS</u>
4118.454	-31.89	-13.0	18.9	75.3	Horizontal	<u>PASS</u>
5771.820	-43.68	-13.0	30.7	231.5	Horizontal	<u>PASS</u>
12506.858	-36.82	-13.0	23.8	49.6	Horizontal	<u>PASS</u>

(Plot C.1: EGPRS 850MHz Channel = 128, Test Antenna Horizontal)



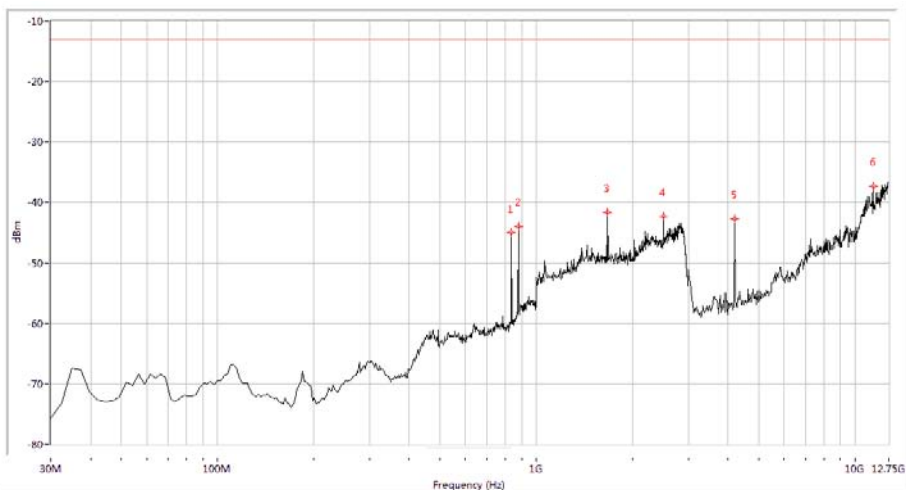
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
823.416	-55.01	-13.0	42.0	46.3	Vertical	<u>PASS</u>
866.958	-46.27	-13.0	33.3	245.1	Vertical	<u>PASS</u>
1648.379	-43.88	-13.0	30.9	315.3	Vertical	<u>PASS</u>
4945.137	-46.13	-13.0	33.1	249.8	Vertical	<u>PASS</u>
6574.190	-47.37	-13.0	34.4	10.5	Vertical	<u>PASS</u>
12555.486	-36.66	-13.0	23.7	47.0	Vertical	<u>PASS</u>

(Plot C.2: EGPRS 850MHz Channel = 128, Test Antenna Vertical)



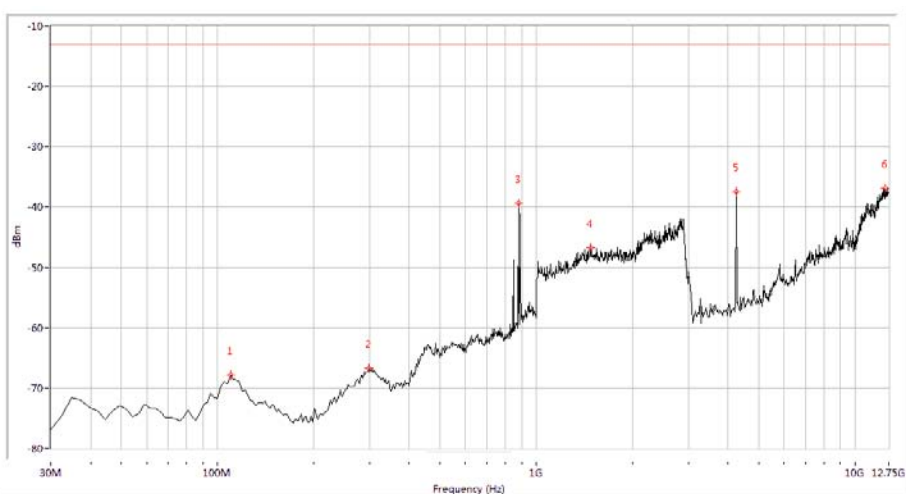
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-68.35	-13.0	55.4	146.5	Horizontal	<u>PASS</u>
879.052	-39.65	-13.0	26.6	219.7	Horizontal	<u>PASS</u>
1468.828	-46.45	-13.0	33.4	263.5	Horizontal	<u>PASS</u>
3340.399	-29.02	-13.0	16.0	0.1	Horizontal	<u>PASS</u>
4191.397	-32.87	-13.0	19.9	19.7	Horizontal	<u>PASS</u>
12579.800	-36.62	-13.0	23.6	163.8	Horizontal	<u>PASS</u>

(Plot C.3: EGPRS 850MHz Channel = 190, Test Antenna Horizontal)



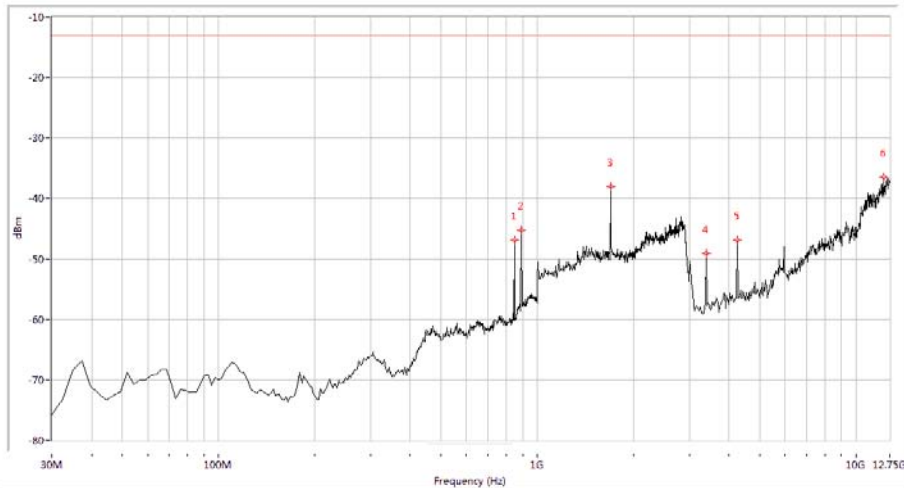
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
835.511	-44.89	-13.0	31.9	16.4	Vertical	<u>PASS</u>
879.052	-43.91	-13.0	30.9	58.9	Vertical	<u>PASS</u>
1673.317	-41.66	-13.0	28.7	164.7	Vertical	<u>PASS</u>
2506.234	-42.26	-13.0	29.3	23.1	Vertical	<u>PASS</u>
4191.397	-42.65	-13.0	29.7	154.6	Vertical	<u>PASS</u>
11437.032	-37.29	-13.0	24.3	279.5	Vertical	<u>PASS</u>

(Plot C.4: EGPRS 850MHz Channel = 190, Test Antenna Vertical)



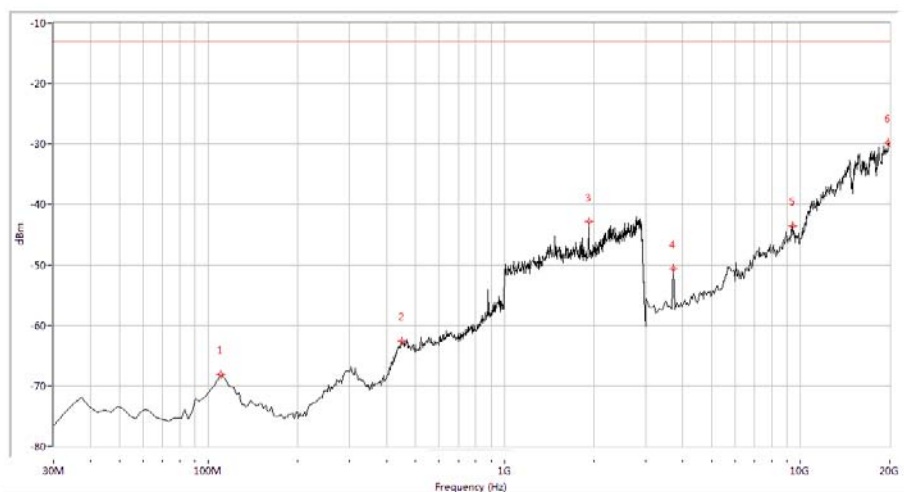
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-67.80	-13.0	54.8	163.4	Horizontal	<u>PASS</u>
298.504	-66.68	-13.0	53.7	82.5	Horizontal	<u>PASS</u>
879.052	-39.44	-13.0	26.4	275.9	Horizontal	<u>PASS</u>
1478.803	-46.77	-13.0	33.8	23.1	Horizontal	<u>PASS</u>
4240.025	-37.50	-13.0	24.5	219.5	Horizontal	<u>PASS</u>
12458.229	-36.90	-13.0	23.9	172.4	Horizontal	<u>PASS</u>

(Plot C.5: EGPRS 850MHz Channel = 251, Test Antenna Horizontal)



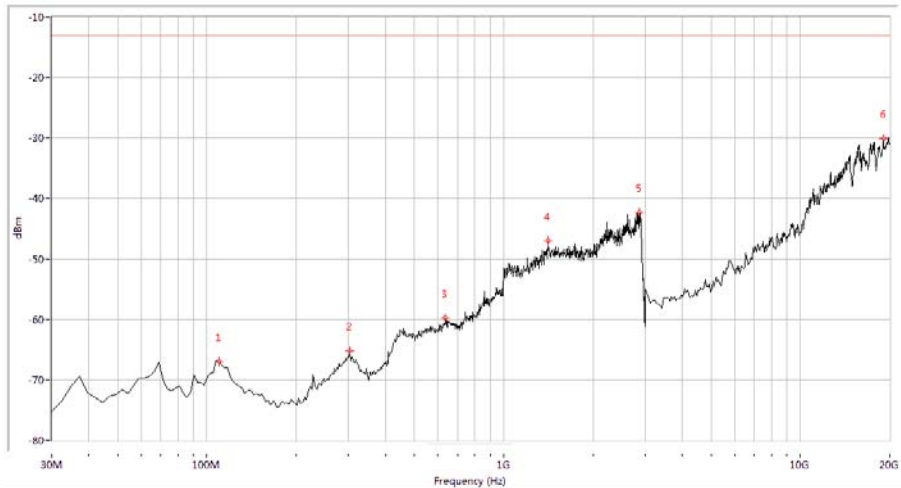
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
847.606	-46.87	-13.0	33.9	134.9	Vertical	<u>PASS</u>
891.147	-45.15	-13.0	32.2	258.4	Vertical	<u>PASS</u>
1698.254	-37.95	-13.0	25.0	76.3	Vertical	<u>PASS</u>
3389.027	-49.03	-13.0	36.0	324.5	Vertical	<u>PASS</u>
4240.025	-46.80	-13.0	33.8	194.8	Vertical	<u>PASS</u>
12215.087	-36.44	-13.0	23.4	10.6	Vertical	<u>PASS</u>

(Plot C.6: EGPRS 850MHz Channel = 251, Test Antenna Vertical)



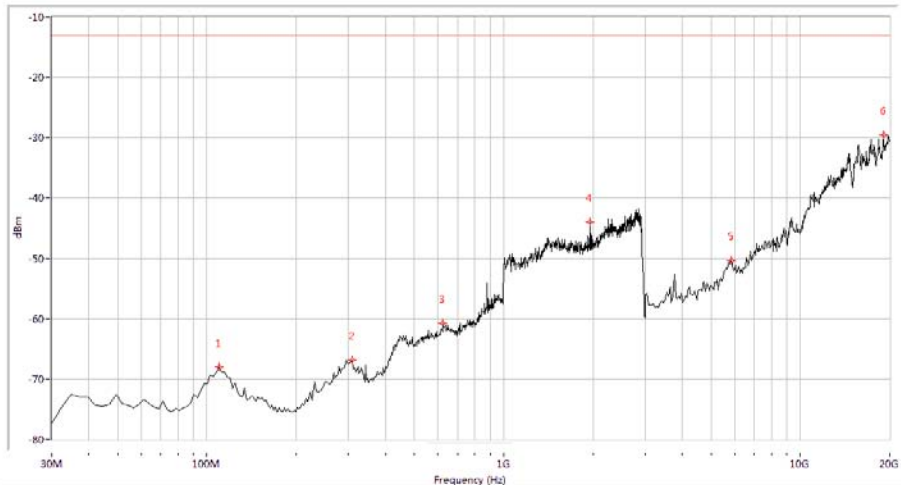
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-68.06	-13.0	55.1	46.3	Horizontal	<u>PASS</u>
450.898	-62.55	-13.0	49.6	174.6	Horizontal	<u>PASS</u>
1927.681	-42.78	-13.0	29.8	29.6	Horizontal	<u>PASS</u>
3720.698	-50.55	-13.0	37.5	34.5	Horizontal	<u>PASS</u>
9443.890	-43.48	-13.0	30.5	274.9	Horizontal	<u>PASS</u>
19788.030	-29.80	-13.0	16.8	205.6	Horizontal	<u>PASS</u>

(Plot D.1: EGPRS 1900MHz Channel = 512, Test Antenna Horizontal)



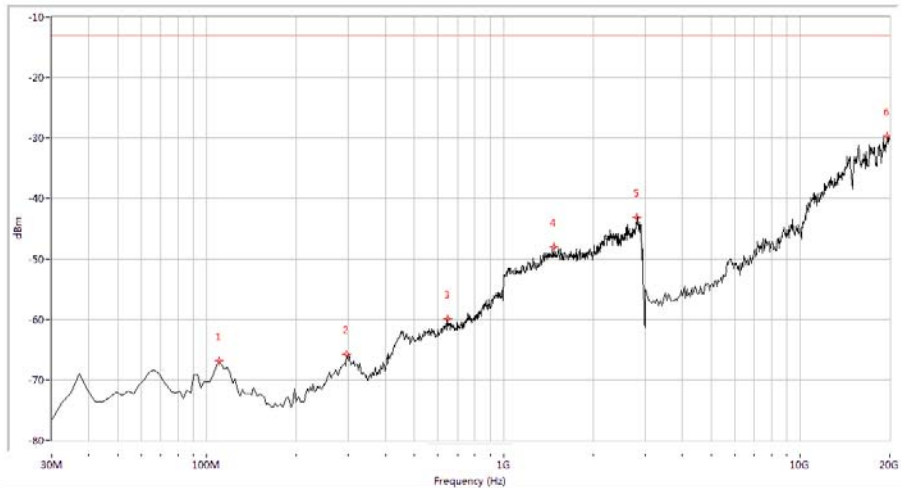
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-66.98	-13.0	54.0	345.6	Vertical	<u>PASS</u>
303.342	-65.19	-13.0	52.2	15.3	Vertical	<u>PASS</u>
637.157	-59.78	-13.0	46.8	57.1	Vertical	<u>PASS</u>
1408.978	-46.94	-13.0	33.9	159.8	Vertical	<u>PASS</u>
2860.349	-42.34	-13.0	29.3	226.4	Vertical	<u>PASS</u>
19067.332	-30.07	-13.0	17.1	324.5	Vertical	<u>PASS</u>

(Plot D.2: EGPRS 1900MHz Channel = 512, Test Antenna Vertical)



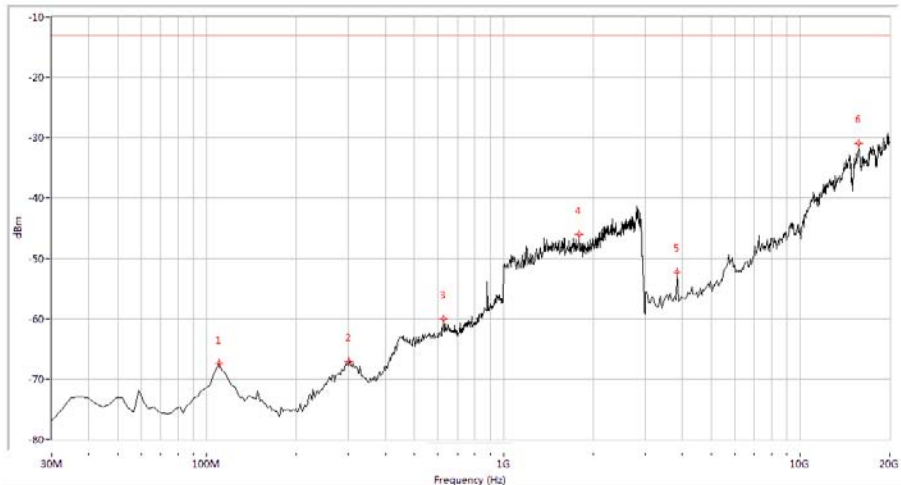
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-67.94	-13.0	54.9	163.7	Horizontal	<u>PASS</u>
308.180	-66.83	-13.0	53.8	41.6	Horizontal	<u>PASS</u>
625.062	-60.69	-13.0	47.7	273.5	Horizontal	<u>PASS</u>
1957.606	-43.97	-13.0	31.0	149.8	Horizontal	<u>PASS</u>
5840.399	-50.30	-13.0	37.3	247.9	Horizontal	<u>PASS</u>
19067.332	-29.57	-13.0	16.6	112.0	Horizontal	<u>PASS</u>

(Plot D.3: EGPRS 1900MHz Channel = 661, Test Antenna Horizontal)



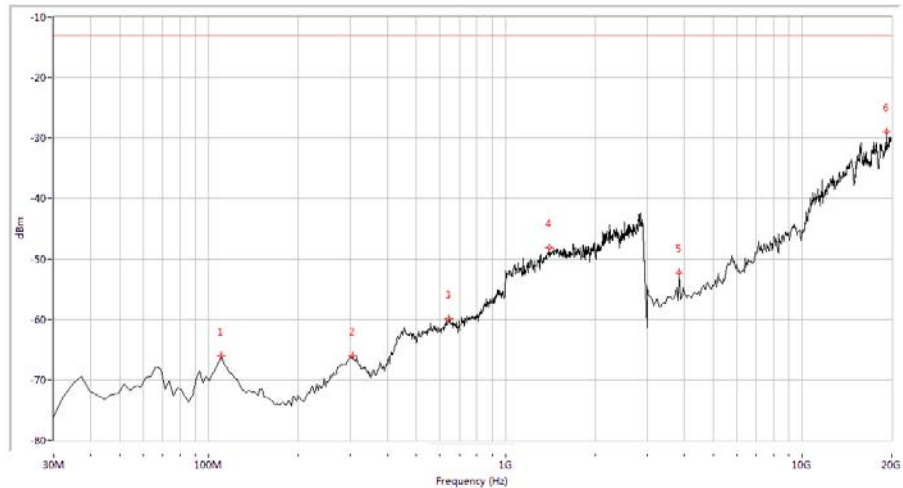
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-66.89	-13.0	53.9	175.4	Vertical	<u>PASS</u>
296.085	-65.78	-13.0	52.8	165.9	Vertical	<u>PASS</u>
649.252	-59.94	-13.0	46.9	144.5	Vertical	<u>PASS</u>
1473.815	-47.95	-13.0	35.0	89.4	Vertical	<u>PASS</u>
2815.461	-43.16	-13.0	30.2	163.2	Vertical	<u>PASS</u>
19618.454	-29.66	-13.0	16.7	0.0	Vertical	<u>PASS</u>

(Plot D.4: EGPRS 1900MHz Channel = 661, Test Antenna Vertical)



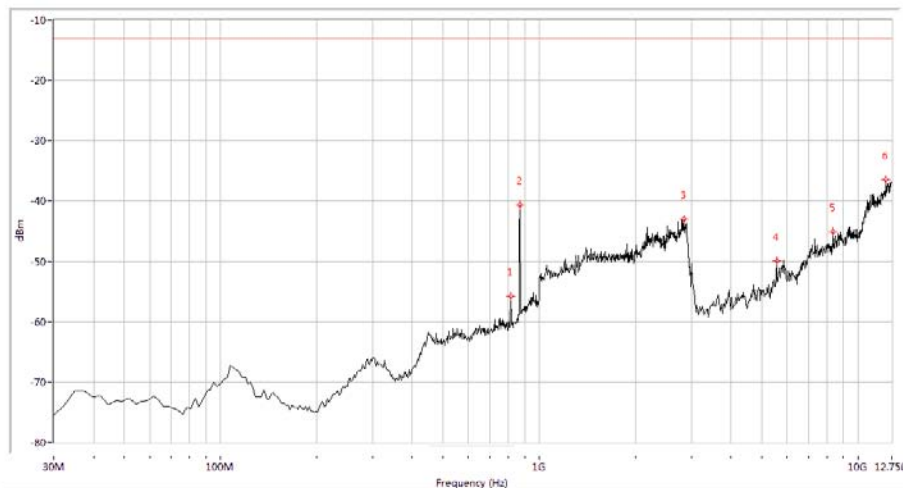
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-67.39	-13.0	54.4	164.9	Horizontal	<u>PASS</u>
300.923	-67.13	-13.0	54.1	246.2	Horizontal	<u>PASS</u>
627.481	-60.03	-13.0	47.0	78.2	Horizontal	<u>PASS</u>
1798.005	-46.07	-13.0	33.1	201.3	Horizontal	<u>PASS</u>
3847.880	-52.23	-13.0	39.2	197.4	Horizontal	<u>PASS</u>
15760.599	-30.97	-13.0	18.0	84.6	Horizontal	<u>PASS</u>

(Plot D.5: EGPRS 1900MHz Channel = 810, Test Antenna Horizontal)



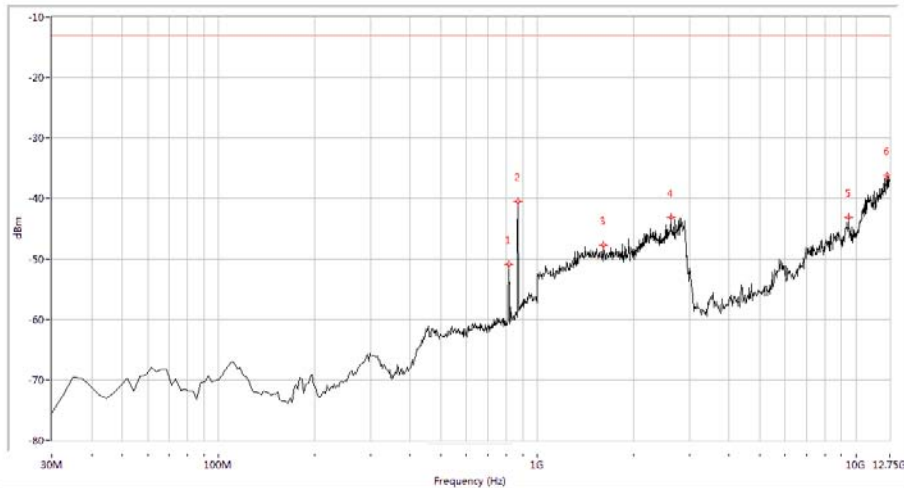
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-66.04	-13.0	53.0	175.9	Vertical	<u>PASS</u>
305.761	-66.01	-13.0	53.0	297.7	Vertical	<u>PASS</u>
641.995	-59.93	-13.0	46.9	143.2	Vertical	<u>PASS</u>
1403.990	-48.10	-13.0	35.1	185.5	Vertical	<u>PASS</u>
3847.880	-52.23	-13.0	39.2	197.9	Vertical	<u>PASS</u>
19194.514	-28.95	-13.0	16.0	29.1	Vertical	<u>PASS</u>

(Plot D.6: EGPRS 1900MHz Channel = 810, Test Antenna Vertical)



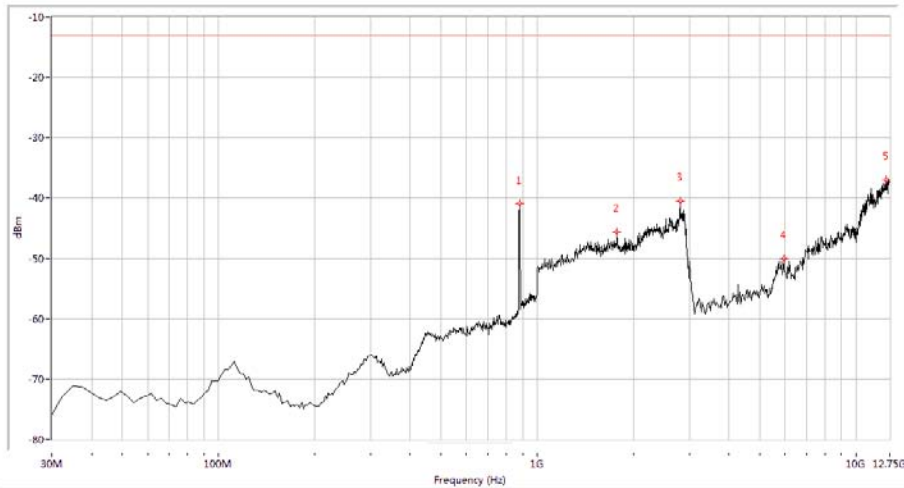
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
816.160	-55.75	-13.0	42.7	63.5	Horizontal	<u>PASS</u>
869.377	-40.58	-13.0	27.6	42.1	Horizontal	<u>PASS</u>
2840.399	-43.01	-13.0	30.0	78.9	Horizontal	<u>PASS</u>
5552.993	-49.86	-13.0	36.9	324.5	Horizontal	<u>PASS</u>
8373.441	-45.07	-13.0	32.1	210.0	Horizontal	<u>PASS</u>
12239.401	-36.52	-13.0	23.5	269.8	Horizontal	<u>PASS</u>

(Plot E.1: WCDMA 850MHz Channel = 4132, Test Antenna Horizontal)



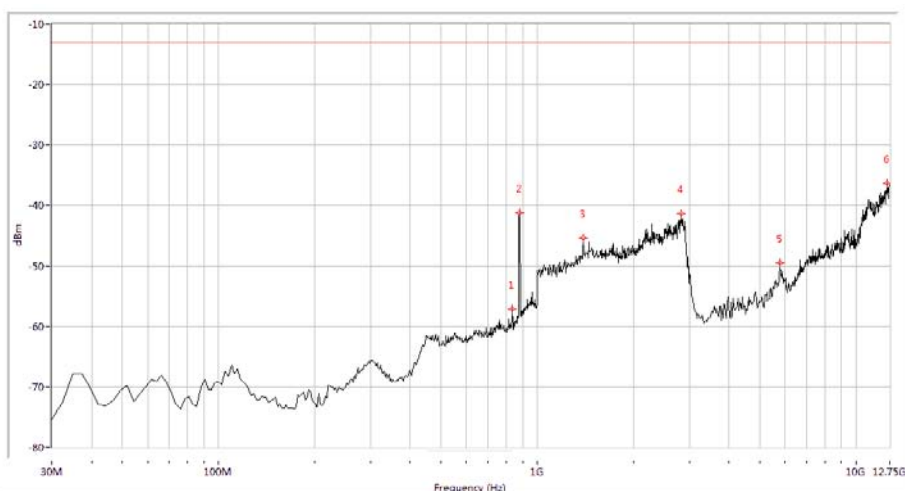
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
816.160	-50.85	-13.0	37.8	36.6	Vertical	<u>PASS</u>
871.796	-40.48	-13.0	27.5	45.7	Vertical	<u>PASS</u>
1613.466	-47.76	-13.0	34.8	63.4	Vertical	<u>PASS</u>
2625.935	-43.13	-13.0	30.1	243.0	Vertical	<u>PASS</u>
9491.895	-43.09	-13.0	30.1	169.6	Vertical	<u>PASS</u>
12555.486	-36.23	-13.0	23.2	303.8	Vertical	<u>PASS</u>

(Plot E.2: WCDMA 850MHz Channel = 4132, Test Antenna Vertical)



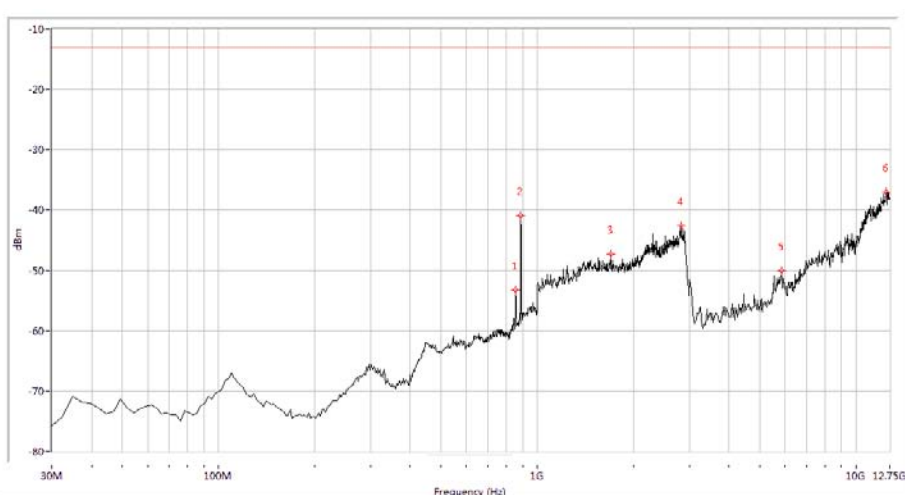
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
879.052	-40.89	-13.0	27.9	85.4	Horizontal	<u>PASS</u>
1778.055	-45.56	-13.0	32.6	63.0	Horizontal	<u>PASS</u>
2805.486	-40.48	-13.0	27.5	2.6	Horizontal	<u>PASS</u>
5942.020	-50.00	-13.0	37.0	324.1	Horizontal	<u>PASS</u>
12482.544	-36.97	-13.0	24.0	247.9	Horizontal	<u>PASS</u>

(Plot E.3: WCDMA 850MHz Channel = 4175, Test Antenna Horizontal)



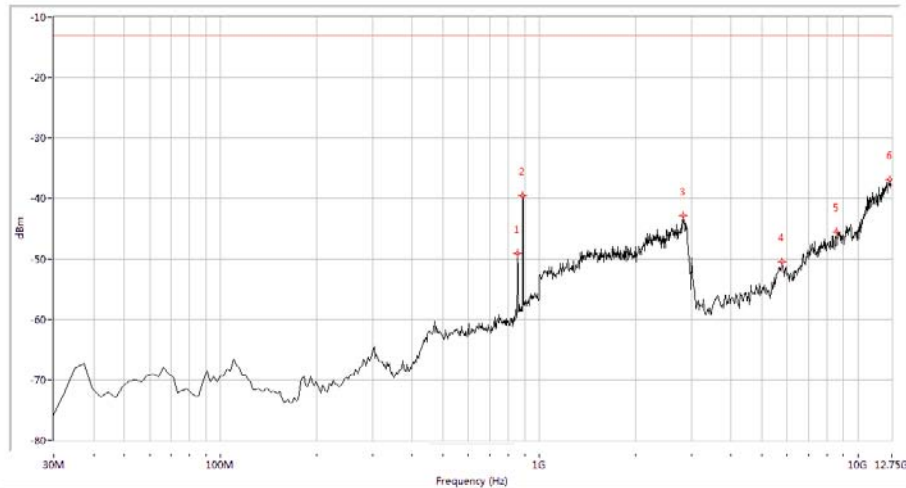
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
835.511	-57.14	-13.0	44.1	206.4	Vertical	<u>PASS</u>
881.471	-41.17	-13.0	28.2	81.0	Vertical	<u>PASS</u>
1394.015	-45.37	-13.0	32.4	257.9	Vertical	<u>PASS</u>
2825.436	-41.31	-13.0	28.3	201.7	Vertical	<u>PASS</u>
5771.820	-49.57	-13.0	36.6	152.0	Vertical	<u>PASS</u>
12555.486	-36.31	-13.0	23.3	73.9	Vertical	<u>PASS</u>

(Plot E.4: WCDMA 850MHz Channel = 4175, Test Antenna Vertical)



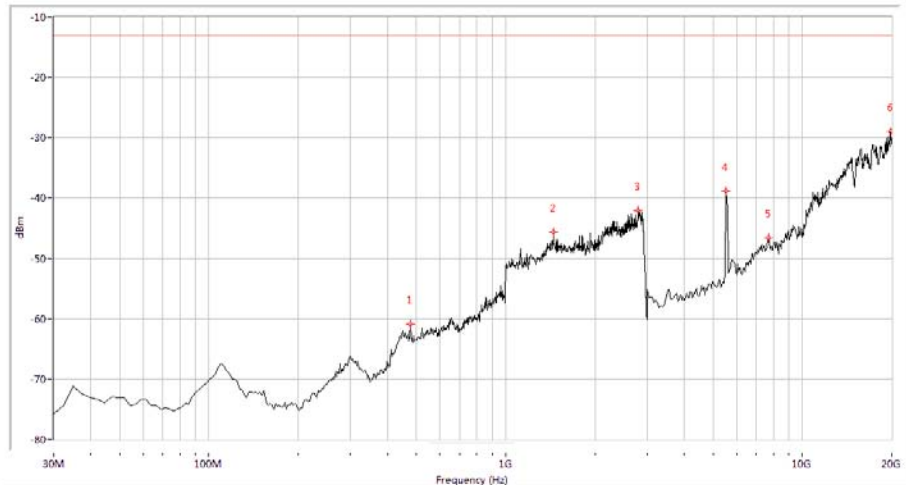
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
854.863	-53.29	-13.0	40.3	12.4	Horizontal	<u>PASS</u>
888.728	-40.84	-13.0	27.8	63.3	Horizontal	<u>PASS</u>
1698.254	-47.32	-13.0	34.3	328.7	Horizontal	<u>PASS</u>
2825.436	-42.59	-13.0	29.6	276.8	Horizontal	<u>PASS</u>
5844.763	-50.02	-13.0	37.0	55.6	Horizontal	<u>PASS</u>
12409.601	-36.98	-13.0	24.0	3.9	Horizontal	<u>PASS</u>

(Plot E.5: WCDMA 850MHz Channel = 4233, Test Antenna Horizontal)



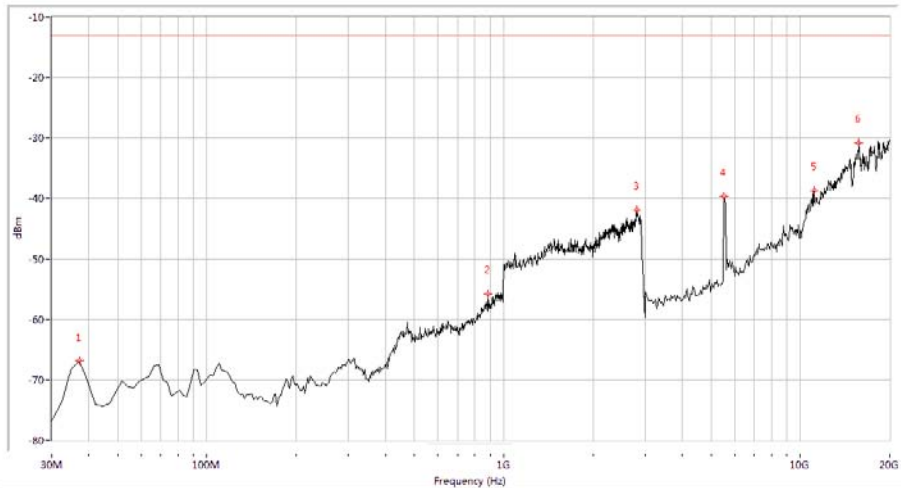
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
854.863	-49.15	-13.0	36.1	66.2	Vertical	<u>PASS</u>
888.728	-39.46	-13.0	26.5	162.8	Vertical	<u>PASS</u>
2825.436	-42.89	-13.0	29.9	27.6	Vertical	<u>PASS</u>
5771.820	-50.43	-13.0	37.4	260.1	Vertical	<u>PASS</u>
8567.955	-45.50	-13.0	32.5	329.2	Vertical	<u>PASS</u>
12604.115	-36.93	-13.0	23.9	78.2	Vertical	<u>PASS</u>

(Plot E.6: WCDMA 850MHz Channel = 4233, Test Antenna Vertical)



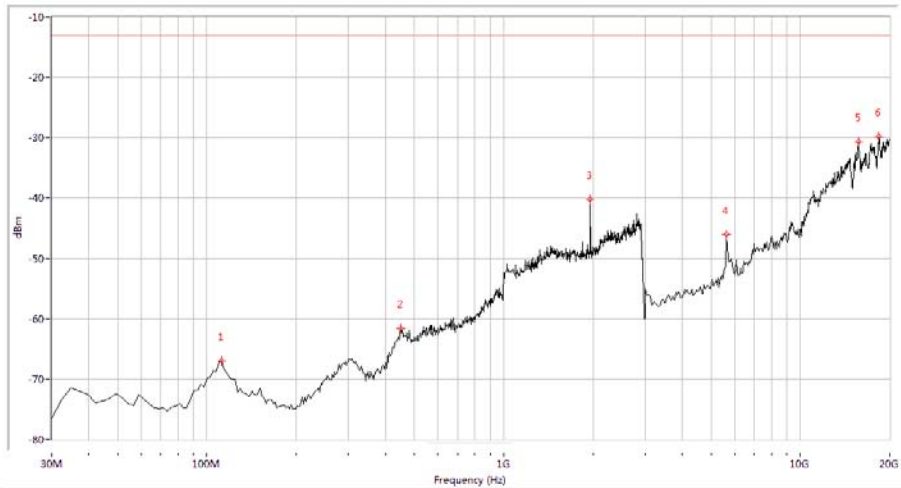
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
477.506	-60.88	-13.0	47.9	278.0	Horizontal	<u>PASS</u>
1448.878	-45.66	-13.0	32.7	204.9	Horizontal	<u>PASS</u>
2795.511	-41.98	-13.0	29.0	359.4	Horizontal	<u>PASS</u>
5543.641	-38.89	-13.0	25.9	67.5	Horizontal	<u>PASS</u>
7705.736	-46.63	-13.0	33.6	112.5	Horizontal	<u>PASS</u>
19915.212	-29.04	-13.0	16.0	335.2	Horizontal	<u>PASS</u>

(Plot F.1: WCDMA 1900MHz Channel = 9262, Test Antenna Horizontal)



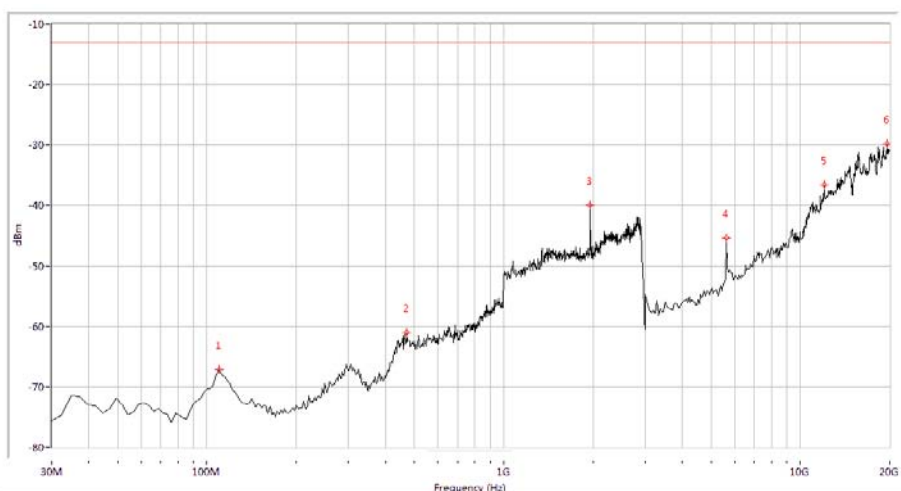
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
37.257	-66.84	-13.0	53.8	78.0	Vertical	<u>PASS</u>
886.309	-55.68	-13.0	42.7	24.9	Vertical	<u>PASS</u>
2805.486	-41.85	-13.0	28.8	339.4	Vertical	<u>PASS</u>
5543.641	-39.69	-13.0	26.7	7.5	Vertical	<u>PASS</u>
11139.651	-38.72	-13.0	25.7	12.5	Vertical	<u>PASS</u>
15718.204	-30.81	-13.0	17.8	315.2	Vertical	<u>PASS</u>

(Plot F.2: WCDMA 1900MHz Channel = 9262, Test Antenna Vertical)



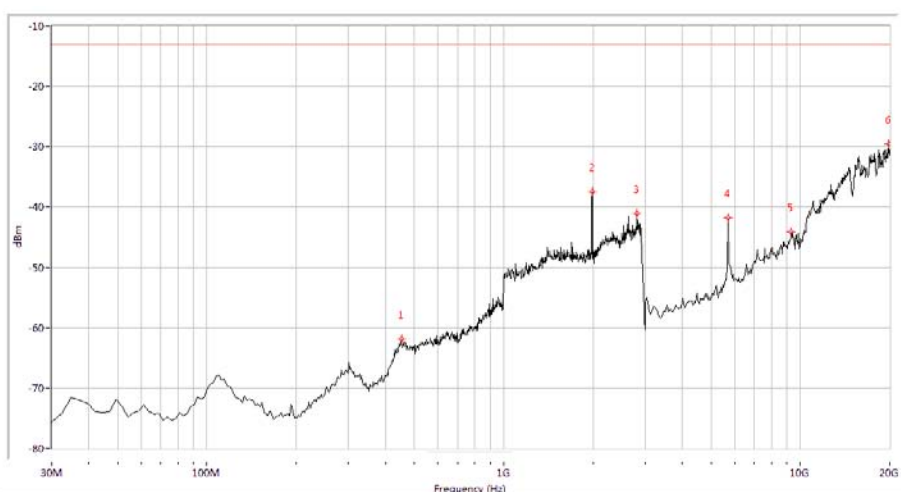
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
112.244	-66.94	-13.0	53.9	18.9	Horizontal	<u>PASS</u>
450.898	-61.54	-13.0	48.5	152.4	Horizontal	<u>PASS</u>
1957.606	-40.26	-13.0	27.3	18.6	Horizontal	<u>PASS</u>
5628.429	-46.05	-13.0	33.1	35.4	Horizontal	<u>PASS</u>
15718.204	-30.61	-13.0	17.6	15.6	Horizontal	<u>PASS</u>
18431.421	-29.89	-13.0	16.9	58.8	Horizontal	<u>PASS</u>

(Plot F.3: WCDMA 1900MHz Channel = 9400, Test Antenna Horizontal)



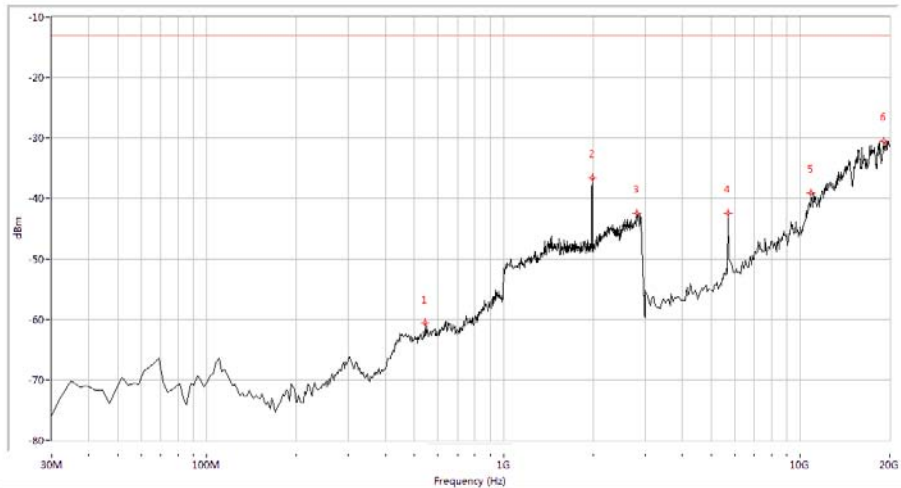
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-67.08	-13.0	54.1	182.9	Vertical	<u>PASS</u>
472.668	-61.03	-13.0	48.0	122.4	Vertical	<u>PASS</u>
1957.606	-39.93	-13.0	26.9	38.6	Vertical	<u>PASS</u>
5628.429	-45.32	-13.0	32.3	331.4	Vertical	<u>PASS</u>
12029.925	-36.55	-13.0	23.6	14.6	Vertical	<u>PASS</u>
19576.060	-29.88	-13.0	16.9	158.8	Vertical	<u>PASS</u>

(Plot F.4: WCDMA 1900MHz Channel = 9400, Test Antenna Vertical)



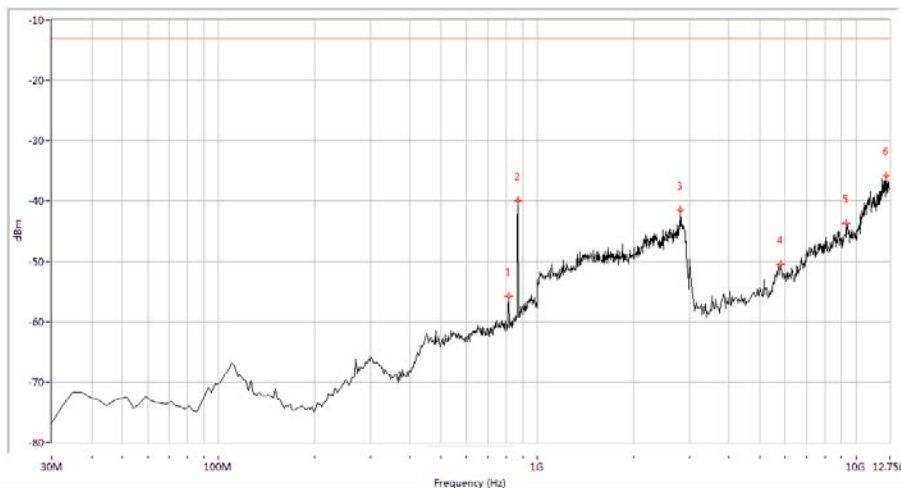
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
453.317	-61.78	-13.0	48.8	182.9	Horizontal	<u>PASS</u>
1987.531	-37.43	-13.0	24.4	151.4	Horizontal	<u>PASS</u>
2815.461	-41.06	-13.0	28.1	186.6	Horizontal	<u>PASS</u>
5713.217	-41.80	-13.0	28.8	315.4	Horizontal	<u>PASS</u>
9316.708	-44.13	-13.0	31.1	115.6	Horizontal	<u>PASS</u>
19915.212	-29.50	-13.0	16.5	358.8	Horizontal	<u>PASS</u>

(Plot F.5: WCDMA 1900MHz Channel = 9538, Test Antenna Horizontal)



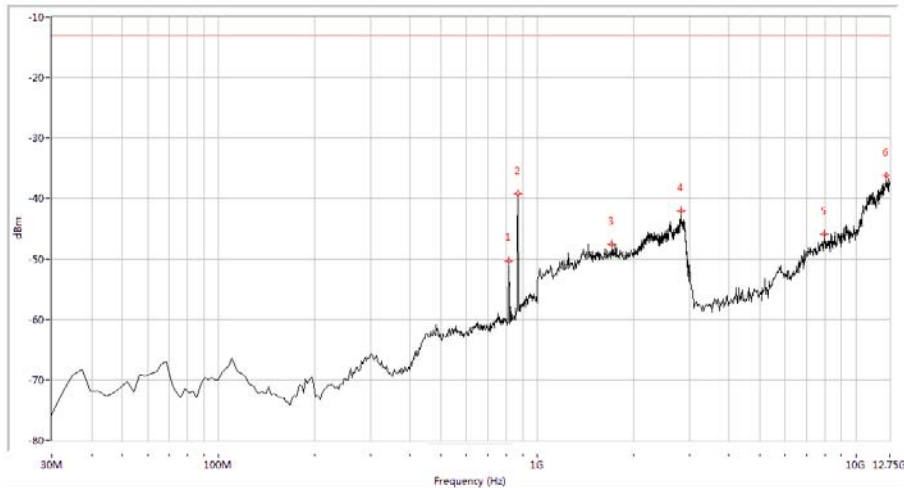
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
545.237	-60.58	-13.0	47.6	182.9	Vertical	<u>PASS</u>
1987.531	-36.63	-13.0	23.6	151.4	Vertical	<u>PASS</u>
2805.486	-42.48	-13.0	29.5	186.6	Vertical	<u>PASS</u>
5713.217	-42.46	-13.0	29.5	315.4	Vertical	<u>PASS</u>
10885.287	-39.05	-13.0	26.0	115.6	Vertical	<u>PASS</u>
19109.726	-30.45	-13.0	17.4	358.8	Vertical	<u>PASS</u>

(Plot F.6: WCDMA 1900MHz Channel = 9538, Test Antenna Vertical)



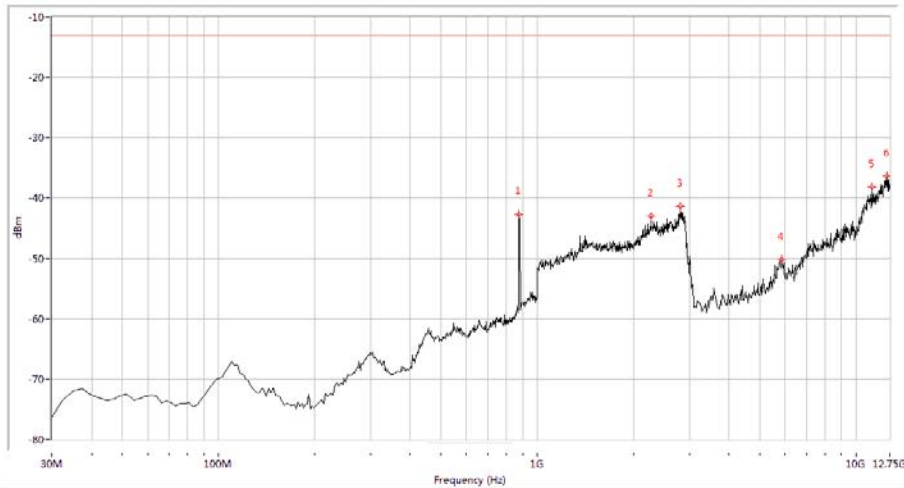
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
813.741	-55.80	-13.0	42.8	136.2	Horizontal	<u>PASS</u>
869.377	-39.99	-13.0	27.0	24.5	Horizontal	<u>PASS</u>
2820.449	-41.49	-13.0	28.5	247.0	Horizontal	<u>PASS</u>
5796.135	-50.45	-13.0	37.5	9.9	Horizontal	<u>PASS</u>
9321.696	-43.65	-13.0	30.6	56.2	Horizontal	<u>PASS</u>
12482.544	-35.80	-13.0	22.8	332.8	Horizontal	<u>PASS</u>

(Plot G.1: HSDPA 850MHz Channel = 4132, Test Antenna Horizontal)



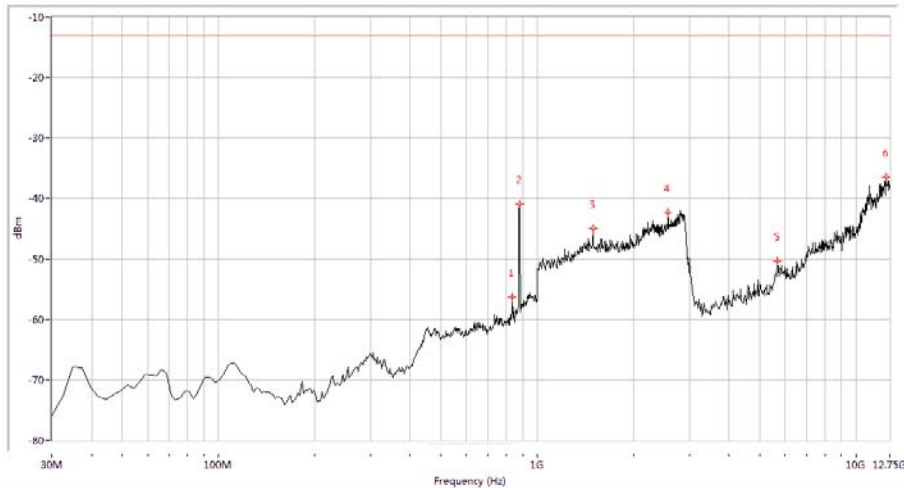
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
813.741	-50.31	-13.0	37.3	136.3	Vertical	<u>PASS</u>
871.796	-39.23	-13.0	26.2	24.5	Vertical	<u>PASS</u>
1713.217	-47.57	-13.0	34.6	7.8	Vertical	<u>PASS</u>
2825.436	-42.01	-13.0	29.0	245.6	Vertical	<u>PASS</u>
7935.786	-45.96	-13.0	33.0	8.9	Vertical	<u>PASS</u>
12482.544	-36.17	-13.0	23.2	163.1	Vertical	<u>PASS</u>

(Plot G.2: HSDPA 850MHz Channel = 4132, Test Antenna Vertical)



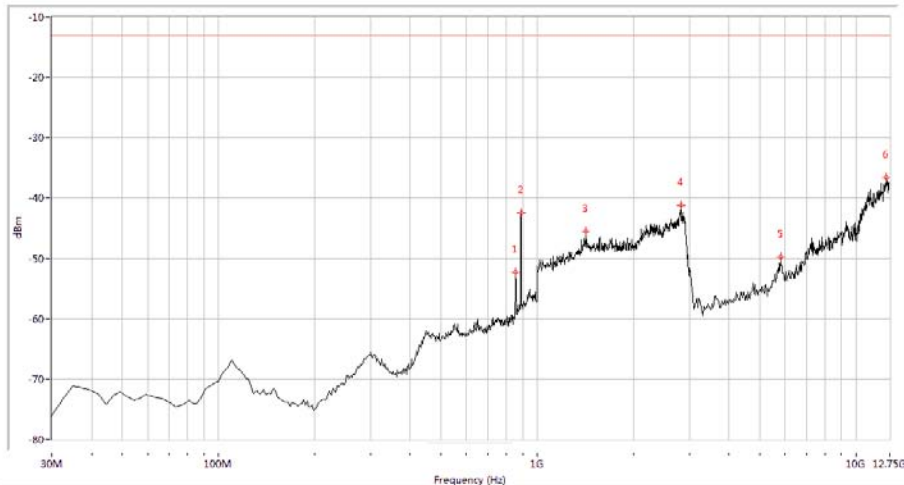
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
876.633	-42.74	-13.0	29.7	96.3	Horizontal	<u>PASS</u>
2276.808	-43.04	-13.0	30.0	73.6	Horizontal	<u>PASS</u>
2815.461	-41.28	-13.0	28.3	46.2	Horizontal	<u>PASS</u>
5844.763	-50.19	-13.0	37.2	326.4	Horizontal	<u>PASS</u>
11242.519	-38.18	-13.0	25.2	274.9	Horizontal	<u>PASS</u>
12506.858	-36.41	-13.0	23.4	36.1	Horizontal	<u>PASS</u>

(Plot G.3: HSDPA 850MHz Channel = 4175, Test Antenna Horizontal)



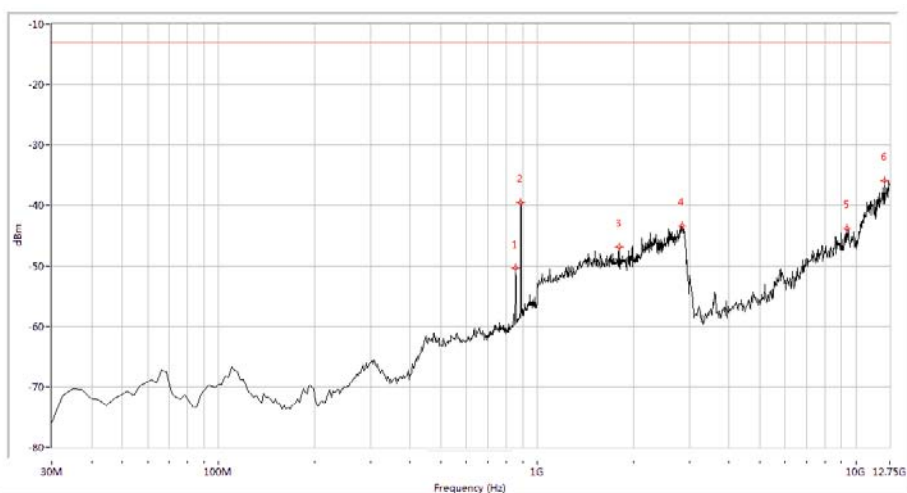
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
835.511	-56.26	-13.0	43.3	295.9	Vertical	<u>PASS</u>
879.052	-40.90	-13.0	27.9	1.9	Vertical	<u>PASS</u>
1498.753	-44.98	-13.0	32.0	358.3	Vertical	<u>PASS</u>
2576.060	-42.29	-13.0	29.3	322.4	Vertical	<u>PASS</u>
5674.564	-50.31	-13.0	37.3	189.1	Vertical	<u>PASS</u>
12458.229	-36.44	-13.0	23.4	18.7	Vertical	<u>PASS</u>

(Plot G.4: HSDPA 850MHz Channel = 4175, Test Antenna Vertical)



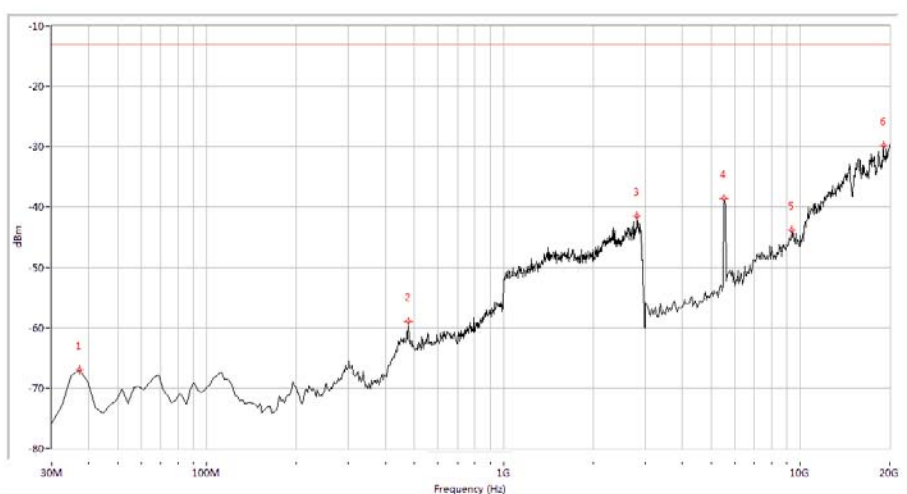
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
854.863	-52.32	-13.0	39.3	13.4	Horizontal	<u>PASS</u>
891.147	-42.49	-13.0	29.5	245.7	Horizontal	<u>PASS</u>
1423.940	-45.45	-13.0	32.4	56.9	Horizontal	<u>PASS</u>
2825.436	-41.17	-13.0	28.2	163.5	Horizontal	<u>PASS</u>
5796.135	-49.73	-13.0	36.7	6.0	Horizontal	<u>PASS</u>
12433.915	-36.65	-13.0	23.6	312.8	Horizontal	<u>PASS</u>

(Plot G.5: HSDPA 850MHz Channel = 4233, Test Antenna Horizontal)



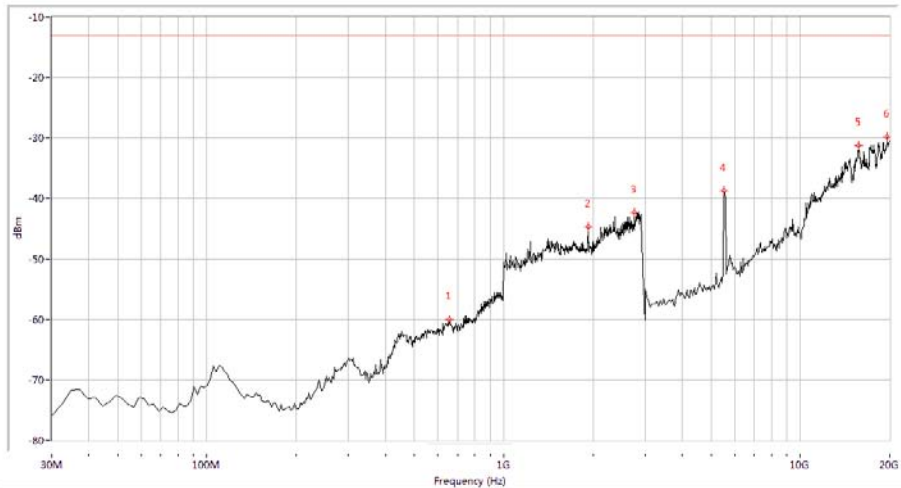
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
854.863	-50.35	-13.0	37.4	28.6	Vertical	<u>PASS</u>
888.728	-39.52	-13.0	26.5	176.4	Vertical	<u>PASS</u>
1812.968	-46.84	-13.0	33.8	162.3	Vertical	<u>PASS</u>
2840.399	-43.39	-13.0	30.4	56.1	Vertical	<u>PASS</u>
9346.010	-43.88	-13.0	30.9	344.7	Vertical	<u>PASS</u>
12288.030	-35.86	-13.0	22.9	111.6	Vertical	<u>PASS</u>

(Plot G.6: HSDPA 850MHz Channel = 4233, Test Antenna Vertical)



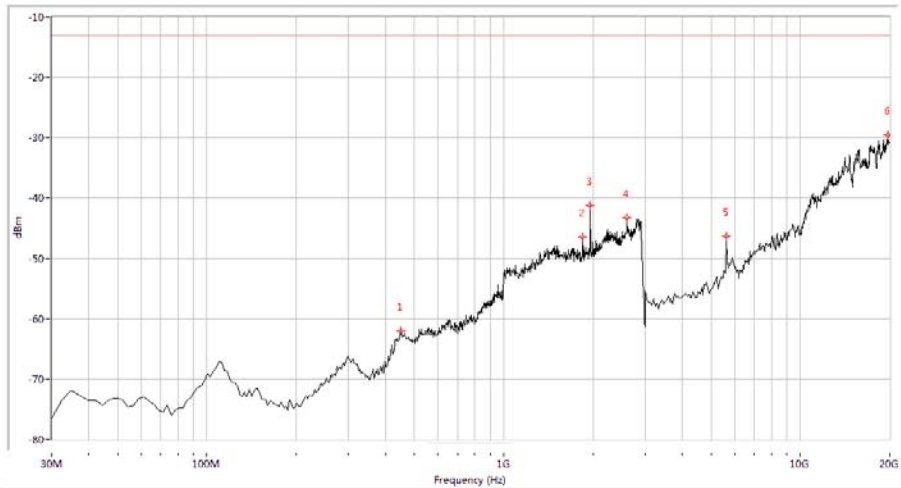
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
37.257	-66.92	-13.0	53.9	135.6	Vertical	<u>PASS</u>
477.506	-58.99	-13.0	46.0	42.5	Vertical	<u>PASS</u>
2820.449	-41.46	-13.0	28.5	96.7	Vertical	<u>PASS</u>
5543.641	-38.52	-13.0	25.5	321.4	Vertical	<u>PASS</u>
9359.102	-43.80	-13.0	30.8	78.9	Vertical	<u>PASS</u>
19067.332	-29.84	-13.0	16.8	243.0	Vertical	<u>PASS</u>

(Plot H.1: HSDPA 1900 MHz Channel = 9262, Test Antenna Horizontal)



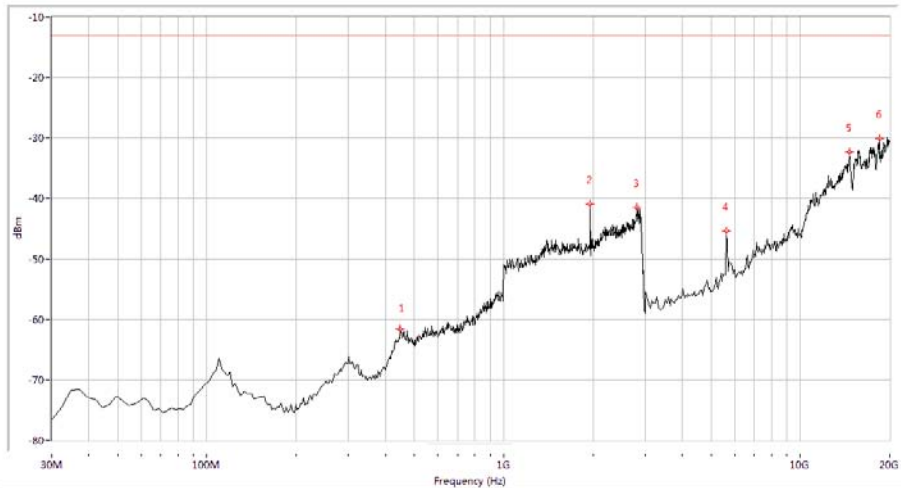
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
656.509	-60.02	-13.0	47.0	328.9	Horizontal	<u>PASS</u>
1927.681	-44.61	-13.0	31.6	157.6	Horizontal	<u>PASS</u>
2760.599	-42.29	-13.0	29.3	42.0	Horizontal	<u>PASS</u>
5543.641	-38.74	-13.0	25.7	173.2	Horizontal	<u>PASS</u>
15760.599	-31.20	-13.0	18.2	9.8	Horizontal	<u>PASS</u>
19618.454	-29.79	-13.0	16.8	213.8	Horizontal	<u>PASS</u>

(Plot H.2: HSDPA 1900 MHz Channel = 9262, Test Antenna Vertical)



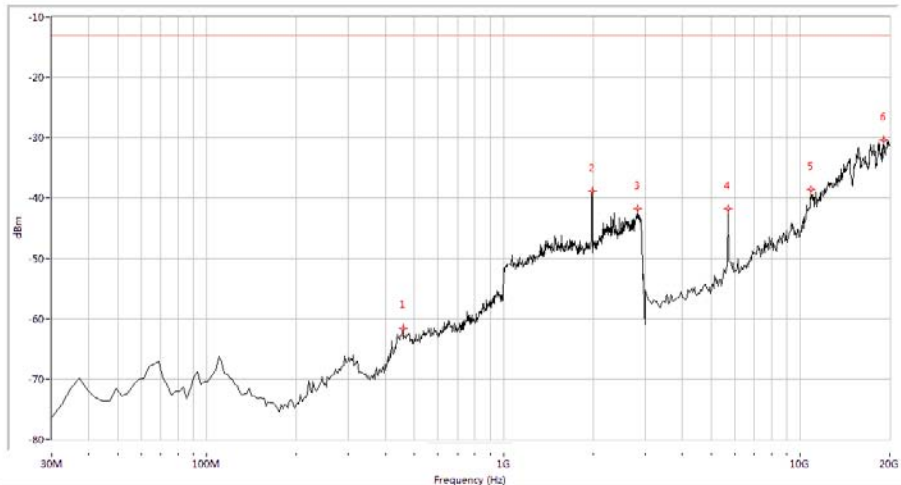
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
450.898	-62.04	-13.0	49.0	134.5	Horizontal	<u>PASS</u>
1847.880	-46.40	-13.0	33.4	6.2	Horizontal	<u>PASS</u>
1957.606	-41.21	-13.0	28.2	78.9	Horizontal	<u>PASS</u>
2605.985	-43.20	-13.0	30.2	243.6	Horizontal	<u>PASS</u>
5628.429	-46.36	-13.0	33.4	9.7	Horizontal	<u>PASS</u>
19745.636	-29.54	-13.0	16.5	343.0	Horizontal	<u>PASS</u>

(Plot H.3: HSDPA 1900 MHz Channel = 9400, Test Antenna Horizontal)



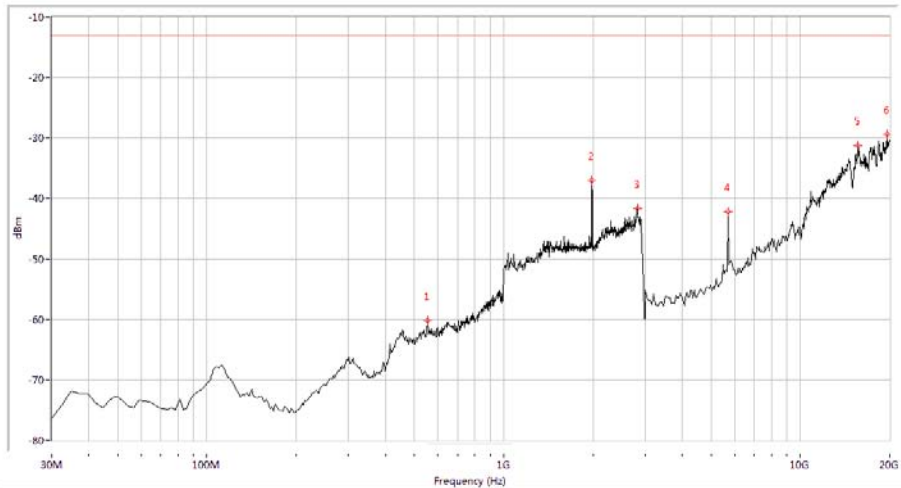
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
448.479	-61.57	-13.0	48.6	124.5	Vertical	<u>PASS</u>
1957.606	-40.86	-13.0	27.9	35.6	Vertical	<u>PASS</u>
2820.449	-41.43	-13.0	28.4	7.8	Vertical	<u>PASS</u>
5628.429	-45.28	-13.0	32.3	169.4	Vertical	<u>PASS</u>
14615.960	-32.37	-13.0	19.4	243.0	Vertical	<u>PASS</u>
18516.209	-30.07	-13.0	17.1	99.0	Vertical	<u>PASS</u>

(Plot H.4: HSDPA 1900 MHz Channel = 9400, Test Antenna Vertical)



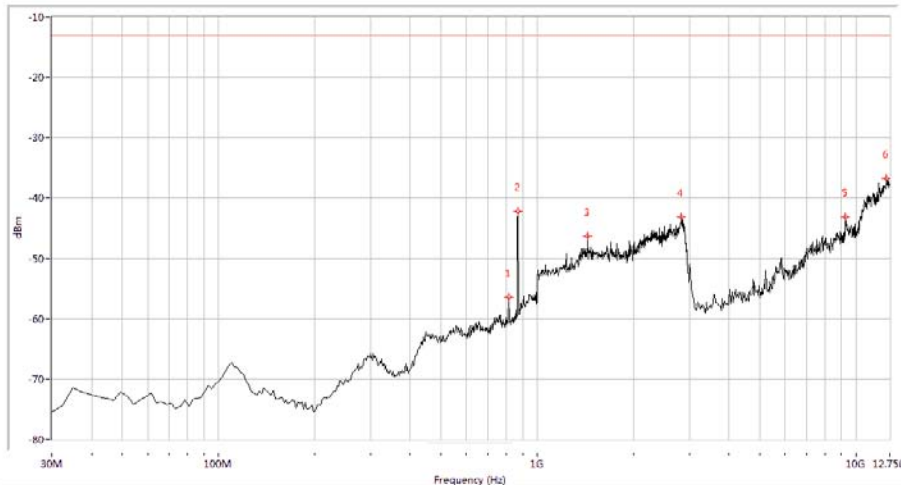
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
458.155	-61.58	-13.0	48.6	163.9	Vertical	<u>PASS</u>
1987.531	-38.78	-13.0	25.8	54.0	Vertical	<u>PASS</u>
2830.424	-41.73	-13.0	28.7	189.7	Vertical	<u>PASS</u>
5713.217	-41.69	-13.0	28.7	5.4	Vertical	<u>PASS</u>
10842.893	-38.53	-13.0	25.5	62.8	Vertical	<u>PASS</u>
19067.332	-30.35	-13.0	17.3	309.1	Vertical	<u>PASS</u>

(Plot H.5: HSDPA 1900 MHz Channel = 9538, Test Antenna Horizontal)



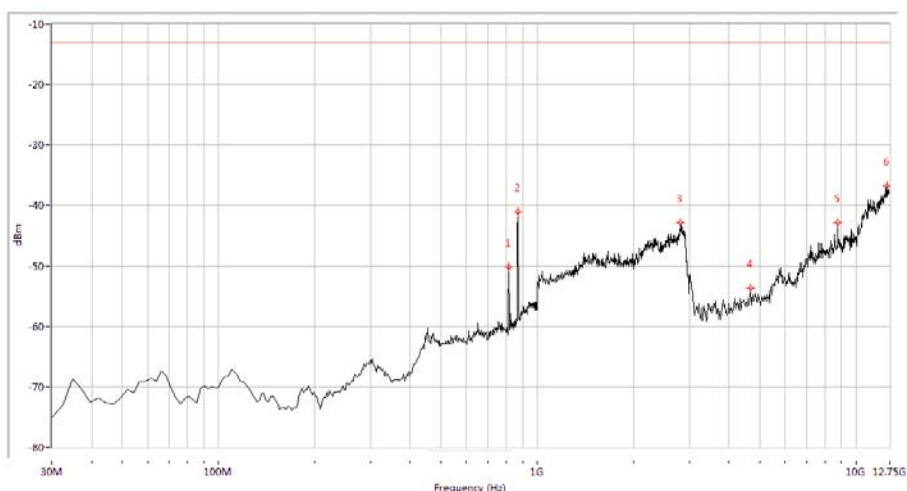
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
554.913	-60.14	-13.0	47.1	136.9	Horizontal	<u>PASS</u>
1982.544	-37.06	-13.0	24.1	52.0	Horizontal	<u>PASS</u>
2830.424	-41.57	-13.0	28.6	8.7	Horizontal	<u>PASS</u>
5713.217	-42.19	-13.0	29.2	199.4	Horizontal	<u>PASS</u>
15633.416	-31.19	-13.0	18.2	24.2	Horizontal	<u>PASS</u>
19660.848	-29.40	-13.0	16.4	61.6	Horizontal	<u>PASS</u>

(Plot H.6: HSDPA 1900 MHz Channel = 9538, Test Antenna Vertical)



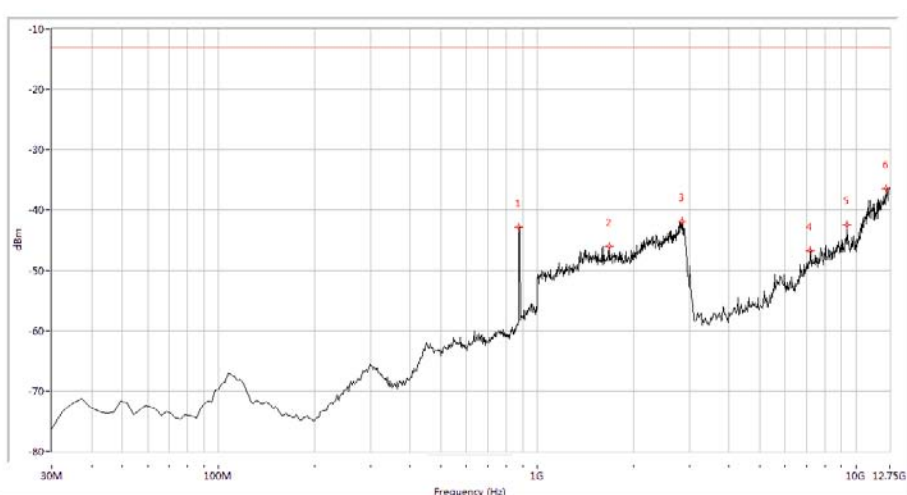
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
813.741	-56.46	-13.0	43.5	36.9	Horizontal	<u>PASS</u>
869.377	-42.21	-13.0	29.2	43.3	Horizontal	<u>PASS</u>
1438.903	-46.32	-13.0	33.3	122.0	Horizontal	<u>PASS</u>
2835.411	-43.16	-13.0	30.2	78.8	Horizontal	<u>PASS</u>
9273.067	-43.14	-13.0	30.1	242.1	Horizontal	<u>PASS</u>
12458.229	-36.78	-13.0	23.8	9.6	Horizontal	<u>PASS</u>

(Plot I.1: HSUPA 850MHz Channel = 4132, Test Antenna Horizontal)



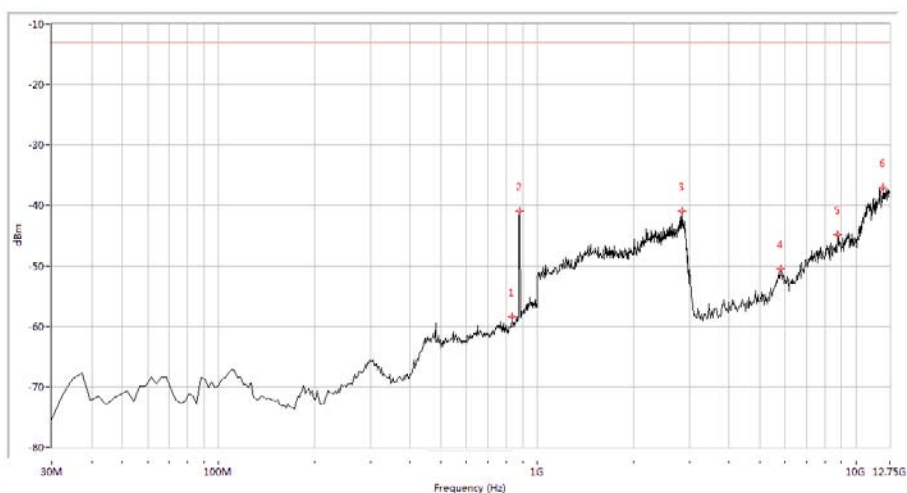
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
813.741	-50.22	-13.0	37.2	78.6	Vertical	<u>PASS</u>
871.796	-40.99	-13.0	28.0	323.4	Vertical	<u>PASS</u>
2805.486	-42.90	-13.0	29.9	52.0	Vertical	<u>PASS</u>
4677.681	-53.71	-13.0	40.7	124.8	Vertical	<u>PASS</u>
8762.469	-42.90	-13.0	29.9	20.9	Vertical	<u>PASS</u>
12555.486	-36.69	-13.0	23.7	244.5	Vertical	<u>PASS</u>

(Plot I.2: HSUPA 850 MHz Channel = 4132, Test Antenna Vertical)



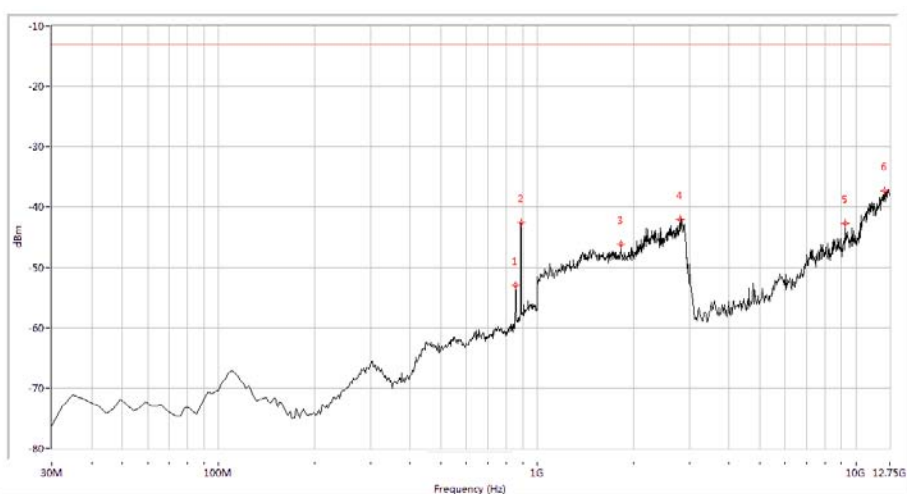
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
876.633	-42.91	-13.0	29.9	163.5	Horizontal	<u>PASS</u>
1678.304	-46.10	-13.0	33.1	245.3	Horizontal	<u>PASS</u>
2850.374	-41.93	-13.0	28.9	52.7	Horizontal	<u>PASS</u>
7182.045	-46.72	-13.0	33.7	25.9	Horizontal	<u>PASS</u>
9394.638	-42.45	-13.0	29.4	6.0	Horizontal	<u>PASS</u>
12458.229	-36.54	-13.0	23.5	78.1	Horizontal	<u>PASS</u>

(Plot I.3: HSUPA 850MHz Channel = 4175, Test Antenna Horizontal)



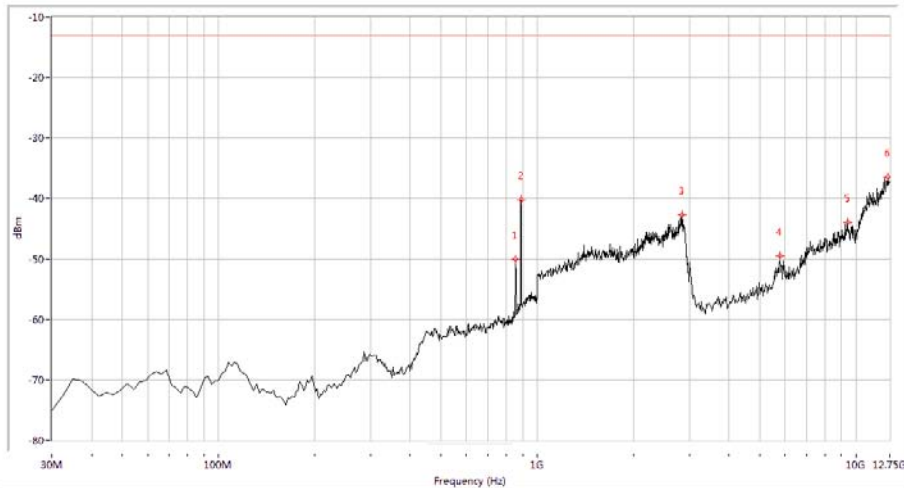
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
835.511	-58.34	-13.0	45.3	352.9	Vertical	<u>PASS</u>
879.052	-40.89	-13.0	27.9	34.5	Vertical	<u>PASS</u>
2850.374	-40.98	-13.0	28.0	145.9	Vertical	<u>PASS</u>
5820.449	-50.43	-13.0	37.4	19.6	Vertical	<u>PASS</u>
8762.469	-44.81	-13.0	31.8	178.2	Vertical	<u>PASS</u>
12166.459	-37.09	-13.0	24.1	37.2	Vertical	<u>PASS</u>

(Plot I.4: HSUPA 850MHz Channel = 4175, Test Antenna Vertical)



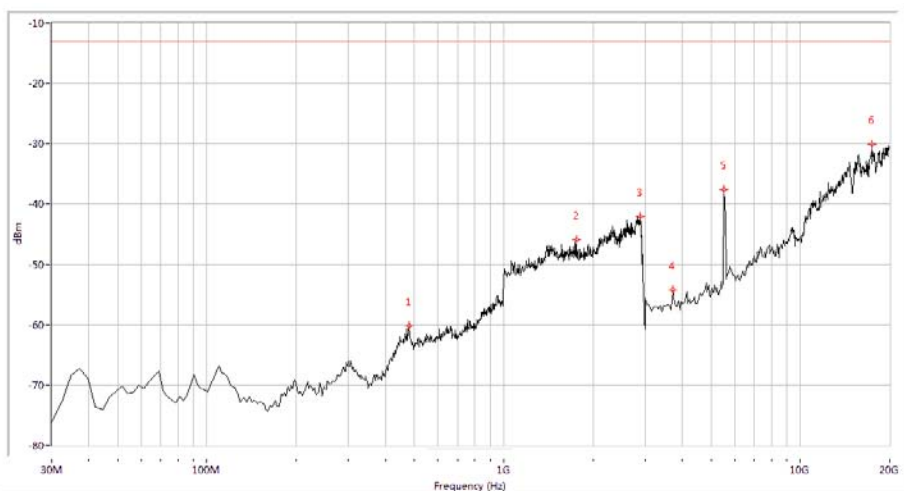
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
854.863	-53.02	-13.0	40.0	147.2	Horizontal	<u>PASS</u>
891.147	-42.59	-13.0	29.6	323.3	Horizontal	<u>PASS</u>
1827.930	-46.21	-13.0	33.2	56.9	Horizontal	<u>PASS</u>
2815.461	-42.03	-13.0	29.0	224.7	Horizontal	<u>PASS</u>
9273.067	-42.67	-13.0	29.7	98.8	Horizontal	<u>PASS</u>
12312.344	-37.29	-13.0	24.3	44.5	Horizontal	<u>PASS</u>

(Plot I.5: HSUPA 850MHz Channel = 4233, Test Antenna Horizontal)



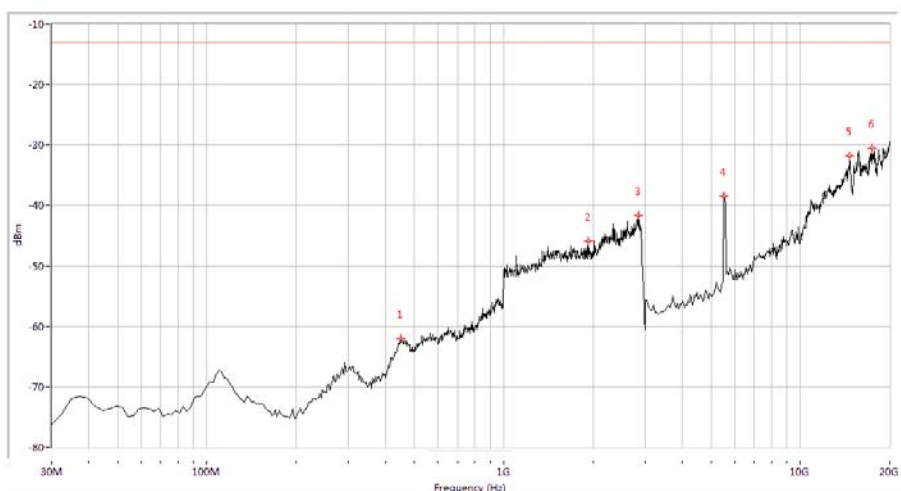
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
854.863	-49.99	-13.0	37.0	323.1	Vertical	<u>PASS</u>
891.147	-40.26	-13.0	27.3	124.5	Vertical	<u>PASS</u>
2840.399	-42.69	-13.0	29.7	63.9	Vertical	<u>PASS</u>
5771.820	-49.57	-13.0	36.6	247.8	Vertical	<u>PASS</u>
9418.953	-43.94	-13.0	30.9	32.7	Vertical	<u>PASS</u>
12628.429	-36.42	-13.0	23.4	226.6	Vertical	<u>PASS</u>

(Plot I.6: HSUPA 850MHz Channel = 4233, Test Antenna Vertical)



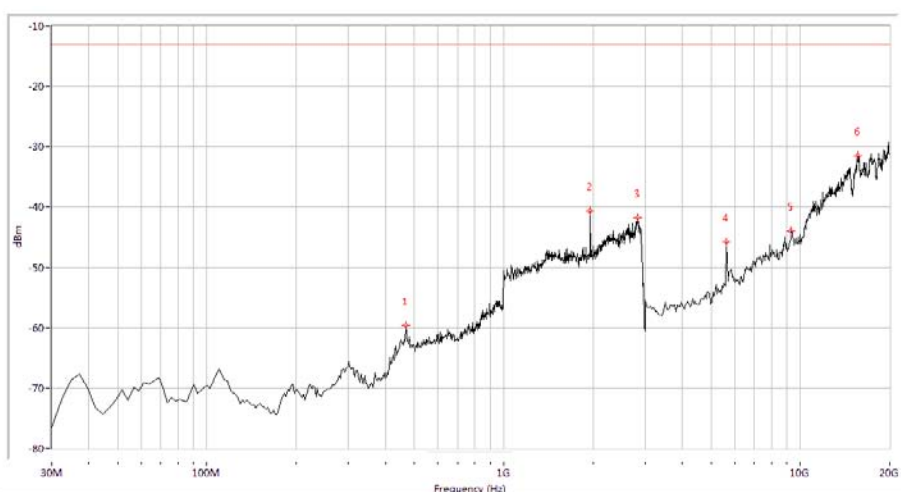
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
479.925	-60.21	-13.0	47.2	163.5	Vertical	<u>PASS</u>
1758.105	-45.90	-13.0	32.9	247.3	Vertical	<u>PASS</u>
2885.287	-42.06	-13.0	29.1	87.2	Vertical	<u>PASS</u>
3720.698	-54.26	-13.0	41.3	3.9	Vertical	<u>PASS</u>
5543.641	-37.61	-13.0	24.6	12.0	Vertical	<u>PASS</u>
17456.359	-30.07	-13.0	17.1	331.5	Vertical	<u>PASS</u>

(Plot J.1: HSUPA 1900 MHz Channel = 9262, Test Antenna Horizontal)



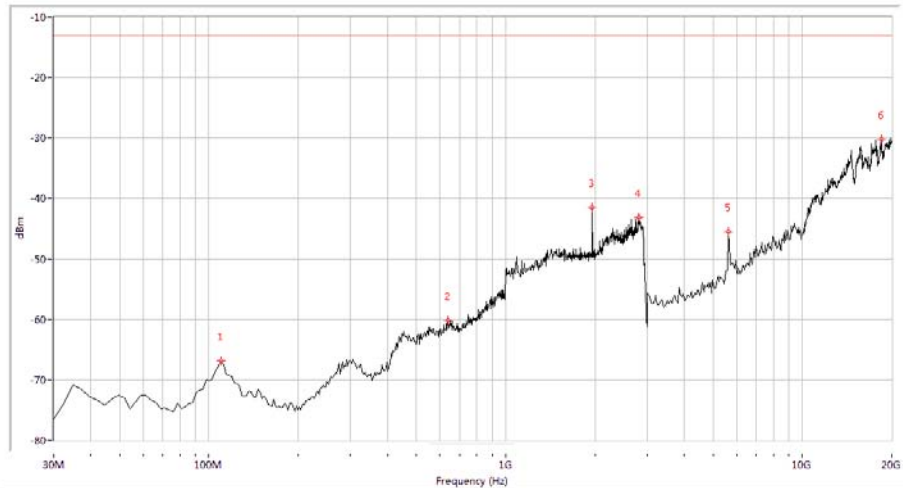
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
450.898	-61.94	-13.0	48.9	156.4	Horizontal	<u>PASS</u>
1932.668	-45.91	-13.0	32.9	324.5	Horizontal	<u>PASS</u>
2850.374	-41.61	-13.0	28.6	78.9	Horizontal	<u>PASS</u>
5543.641	-38.36	-13.0	25.4	12.3	Horizontal	<u>PASS</u>
14658.354	-31.82	-13.0	18.8	2.7	Horizontal	<u>PASS</u>
17498.753	-30.57	-13.0	17.6	93.6	Horizontal	<u>PASS</u>

(Plot J.2: HSUPA 1900 MHz Channel = 9262, Test Antenna Vertical)



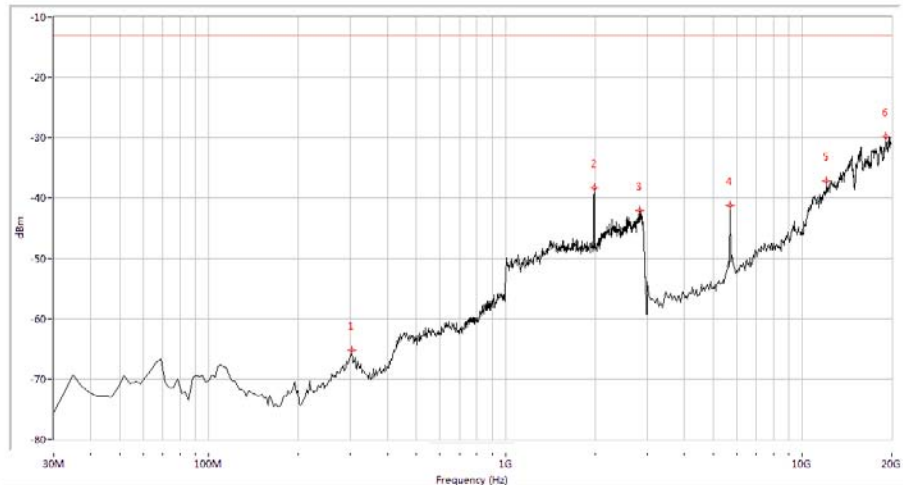
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
467.830	-59.65	-13.0	46.7	163.4	Vertical	<u>PASS</u>
1957.606	-40.57	-13.0	27.6	52.0	Vertical	<u>PASS</u>
2835.411	-41.71	-13.0	28.7	78.9	Vertical	<u>PASS</u>
5628.429	-45.77	-13.0	32.8	213.7	Vertical	<u>PASS</u>
9316.708	-44.00	-13.0	31.0	9.8	Vertical	<u>PASS</u>
15591.022	-31.55	-13.0	18.5	121.6	Vertical	<u>PASS</u>

(Plot J.3: HSUPA 1900 MHz Channel = 9400, Test Antenna Horizontal)



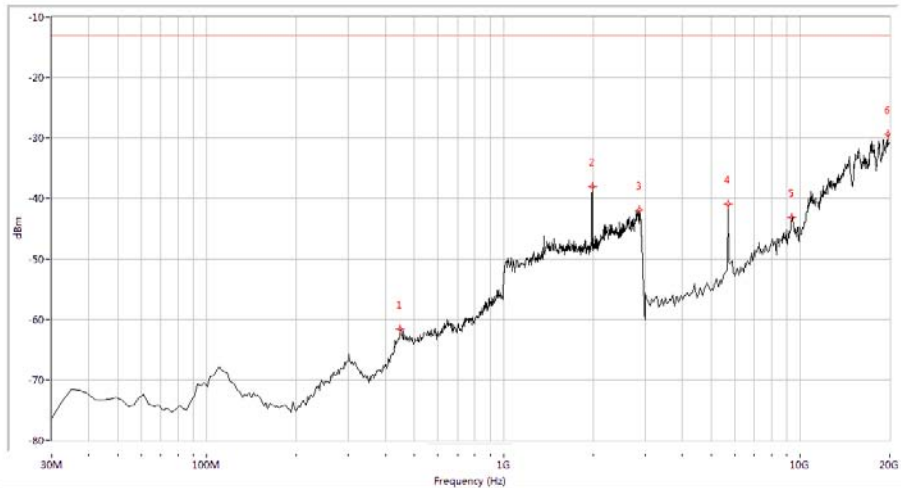
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-66.82	-13.0	53.8	163.4	Horizontal	<u>PASS</u>
639.576	-60.20	-13.0	47.2	85.7	Horizontal	<u>PASS</u>
1957.606	-41.53	-13.0	28.5	32.0	Horizontal	<u>PASS</u>
2815.461	-43.14	-13.0	30.1	96.1	Horizontal	<u>PASS</u>
5628.429	-45.44	-13.0	32.4	215.9	Horizontal	<u>PASS</u>
18473.815	-30.29	-13.0	17.3	9.2	Horizontal	<u>PASS</u>

(Plot J.4: HSUPA 1900 MHz Channel = 9400, Test Antenna Vertical)



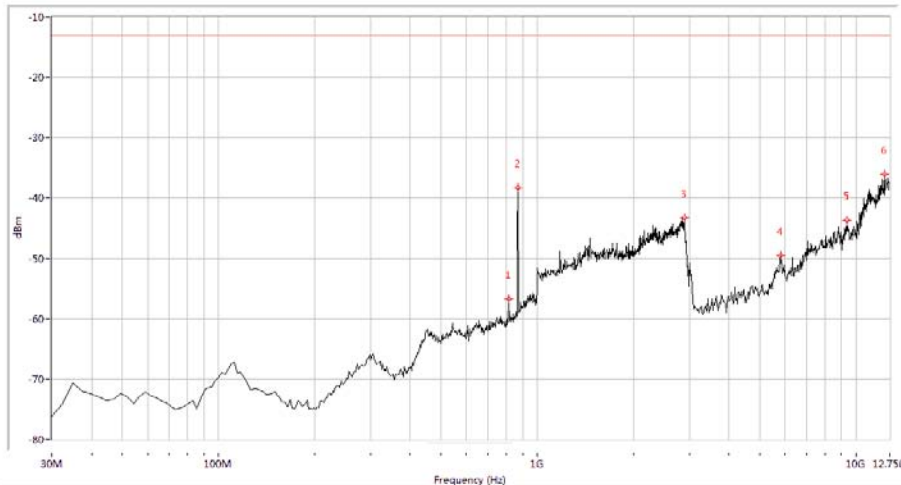
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
303.342	-65.12	-13.0	52.1	63.1	Vertical	<u>PASS</u>
1987.531	-38.23	-13.0	25.2	158.5	Vertical	<u>PASS</u>
2825.436	-42.01	-13.0	29.0	41.8	Vertical	<u>PASS</u>
5713.217	-41.16	-13.0	28.2	15.4	Vertical	<u>PASS</u>
12072.319	-37.15	-13.0	24.2	58.9	Vertical	<u>PASS</u>
19109.726	-29.81	-13.0	16.8	254.7	Vertical	<u>PASS</u>

(Plot J.5: HSUPA 1900 MHz Channel = 9538, Test Antenna Horizontal)



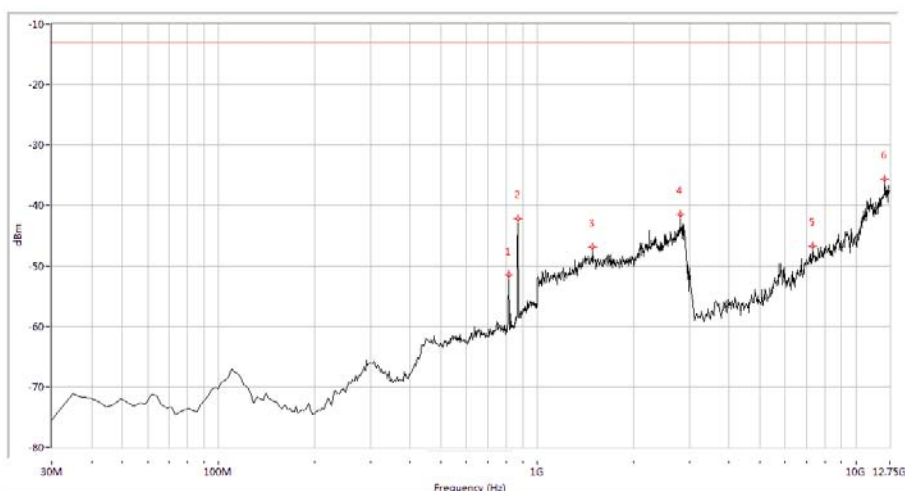
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
448.479	-61.63	-13.0	48.6	318.4	Horizontal	<u>PASS</u>
1987.531	-37.99	-13.0	25.0	52.4	Horizontal	<u>PASS</u>
2865.337	-41.87	-13.0	28.9	156.7	Horizontal	<u>PASS</u>
5713.217	-40.94	-13.0	27.9	0.1	Horizontal	<u>PASS</u>
9359.102	-43.17	-13.0	30.2	89.7	Horizontal	<u>PASS</u>
19745.636	-29.36	-13.0	16.4	214.6	Horizontal	<u>PASS</u>

(Plot J.6: HSUPA 1900 MHz Channel = 9538, Test Antenna Vertical)



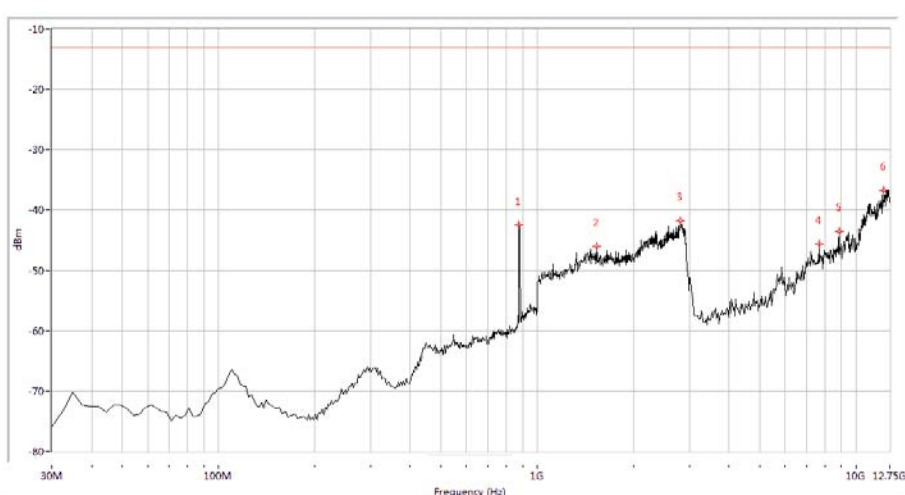
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
813.741	-56.66	-13.0	43.7	36.6	Horizontal	<u>PASS</u>
871.796	-38.22	-13.0	25.2	253.2	Horizontal	<u>PASS</u>
2890.274	-43.30	-13.0	30.3	132.4	Horizontal	<u>PASS</u>
5820.449	-49.52	-13.0	36.5	7.8	Horizontal	<u>PASS</u>
9394.638	-43.68	-13.0	30.7	321.3	Horizontal	<u>PASS</u>
12263.716	-36.07	-13.0	23.1	98.7	Horizontal	<u>PASS</u>

(Plot K.1: HSPA+ 850MHz Channel = 4132, Test Antenna Horizontal)



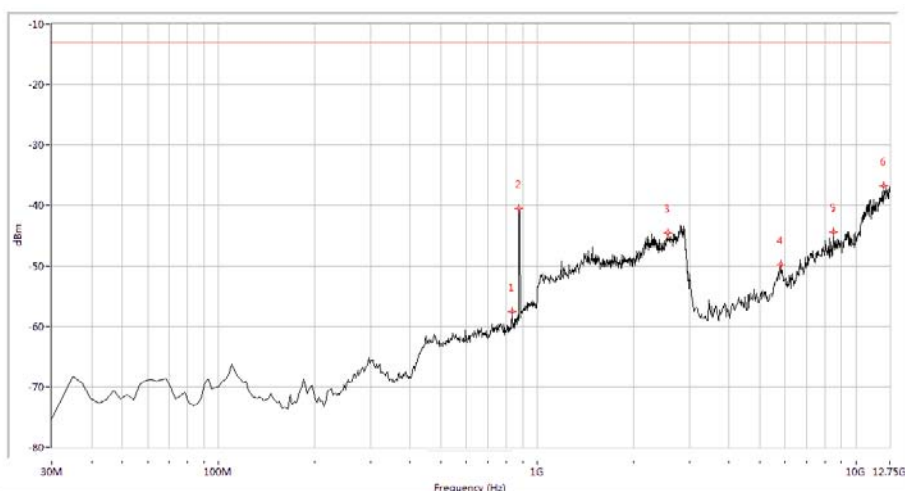
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
813.741	-51.42	-13.0	38.4	163.5	Vertical	<u>PASS</u>
871.796	-42.15	-13.0	29.1	343.2	Vertical	<u>PASS</u>
1493.766	-46.90	-13.0	33.9	79.8	Vertical	<u>PASS</u>
2815.461	-41.48	-13.0	28.5	48.7	Vertical	<u>PASS</u>
7327.930	-46.73	-13.0	33.7	246.3	Vertical	<u>PASS</u>
12312.344	-35.65	-13.0	22.6	9.3	Vertical	<u>PASS</u>

(Plot K.2: HSPA+ 850 MHz Channel = 4132, Test Antenna Vertical)



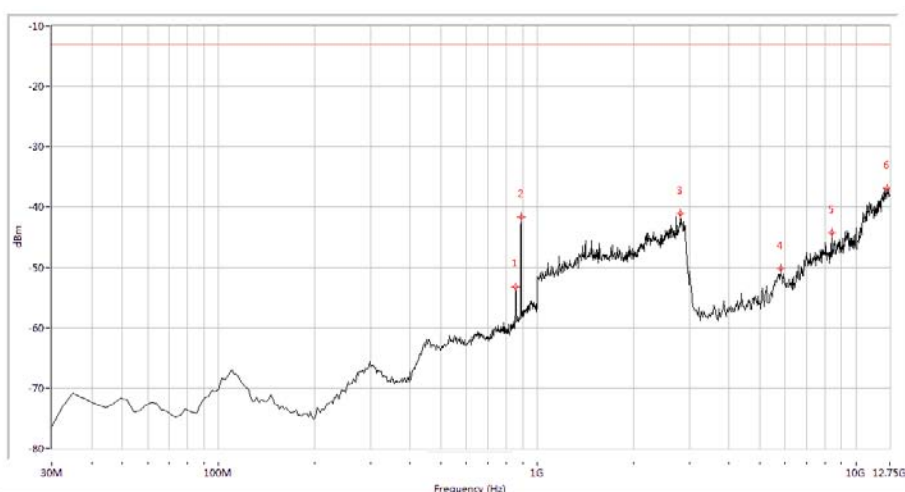
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
876.633	-42.40	-13.0	29.4	36.9	Horizontal	<u>PASS</u>
1538.653	-45.98	-13.0	33.0	163.4	Horizontal	<u>PASS</u>
2820.449	-41.71	-13.0	28.7	78.5	Horizontal	<u>PASS</u>
7668.329	-45.60	-13.0	32.6	256.3	Horizontal	<u>PASS</u>
8859.726	-43.55	-13.0	30.6	153.4	Horizontal	<u>PASS</u>
12239.401	-36.70	-13.0	23.7	69.7	Horizontal	<u>PASS</u>

(Plot K.3: HSPA+ 850MHz Channel = 4175, Test Antenna Horizontal)



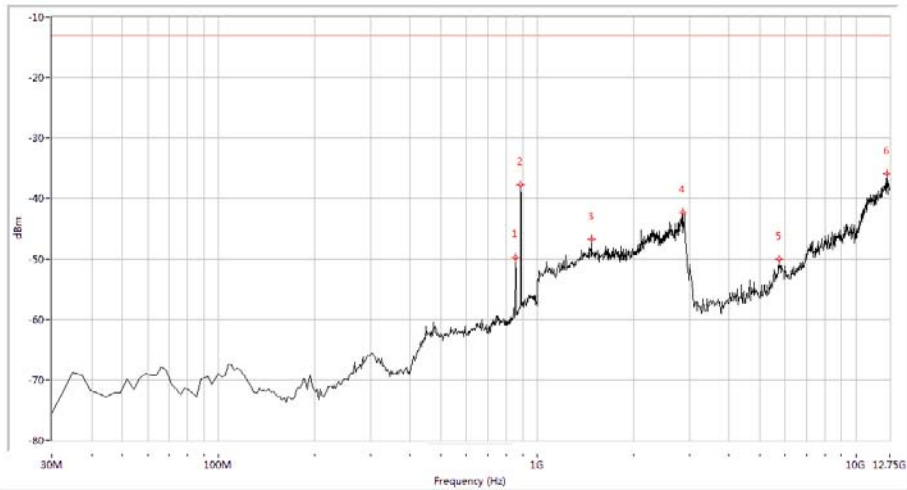
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
833.092	-57.61	-13.0	44.6	63.7	Vertical	<u>PASS</u>
876.633	-40.49	-13.0	27.5	163.4	Vertical	<u>PASS</u>
2571.072	-44.47	-13.0	31.5	244.2	Vertical	<u>PASS</u>
5796.135	-49.81	-13.0	36.8	55.9	Vertical	<u>PASS</u>
8519.327	-44.35	-13.0	31.3	29.4	Vertical	<u>PASS</u>
12239.401	-36.74	-13.0	23.7	289.1	Vertical	<u>PASS</u>

(Plot K.4: HSPA+ 850MHz Channel = 4175, Test Antenna Vertical)



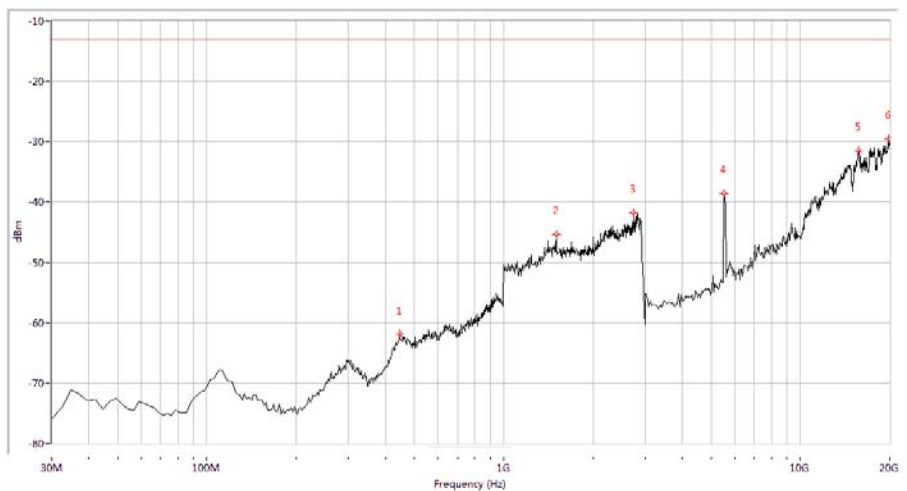
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
854.863	-53.25	-13.0	40.3	32.3	Horizontal	<u>PASS</u>
891.147	-41.61	-13.0	28.6	215.6	Horizontal	<u>PASS</u>
2820.449	-41.10	-13.0	28.1	45.7	Horizontal	<u>PASS</u>
5796.135	-50.22	-13.0	37.2	98.8	Horizontal	<u>PASS</u>
8397.756	-44.19	-13.0	31.2	156.2	Horizontal	<u>PASS</u>
12506.858	-36.86	-13.0	23.9	347.0	Horizontal	<u>PASS</u>

(Plot K.5: HSPA+ 850MHz Channel = 4233, Test Antenna Horizontal)



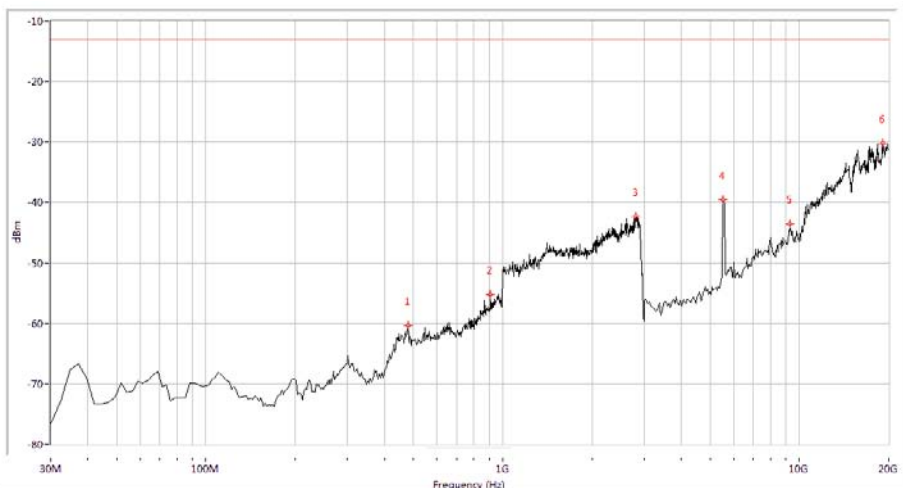
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
854.863	-49.84	-13.0	36.8	132.4	Vertical	<u>PASS</u>
888.728	-37.73	-13.0	24.7	52.6	Vertical	<u>PASS</u>
1478.803	-46.80	-13.0	33.8	7.8	Vertical	<u>PASS</u>
2865.337	-42.31	-13.0	29.3	289.6	Vertical	<u>PASS</u>
5723.192	-50.05	-13.0	37.1	32.0	Vertical	<u>PASS</u>
12555.486	-35.94	-13.0	22.9	145.1	Vertical	<u>PASS</u>

(Plot K.6: HSPA+ 850MHz Channel = 4233, Test Antenna Vertical)



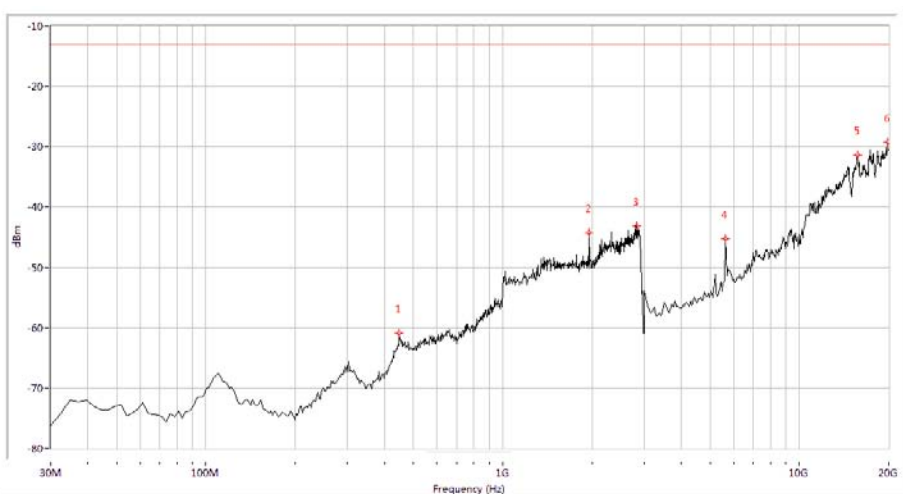
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
446.060	-61.80	-13.0	48.8	355.6	Horizontal	<u>PASS</u>
1503.741	-45.38	-13.0	32.4	237.0	Horizontal	<u>PASS</u>
2745.636	-41.77	-13.0	28.8	6.5	Horizontal	<u>PASS</u>
5543.641	-38.60	-13.0	25.6	155.5	Horizontal	<u>PASS</u>
15718.204	-31.49	-13.0	18.5	100.1	Horizontal	<u>PASS</u>
19872.818	-29.55	-13.0	16.6	340.7	Horizontal	<u>PASS</u>

(Plot L.1: HSPA+ 1900 MHz Channel = 9262, Test Antenna Horizontal)



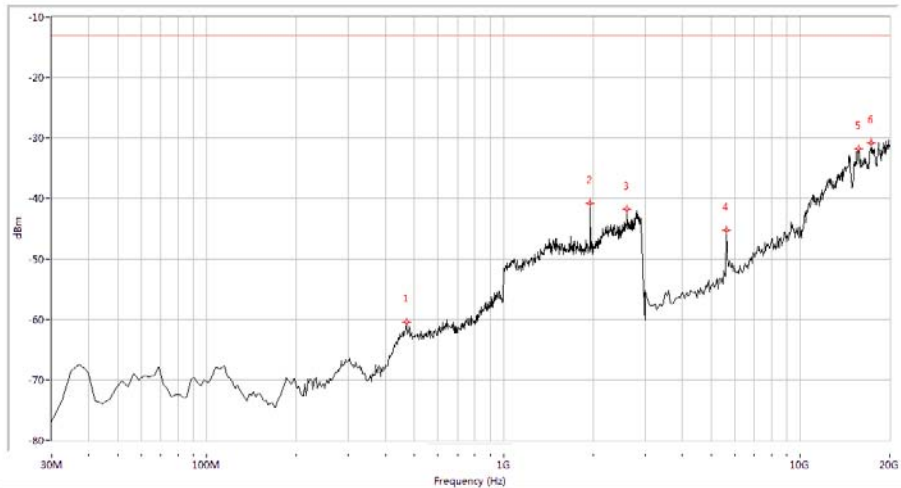
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
479.925	-60.27	-13.0	47.3	120.3	Vertical	<u>PASS</u>
910.499	-55.23	-13.0	42.2	263.7	Vertical	<u>PASS</u>
2810.474	-42.24	-13.0	29.2	5.9	Vertical	<u>PASS</u>
5543.641	-39.48	-13.0	26.5	45.6	Vertical	<u>PASS</u>
9274.314	-43.54	-13.0	30.5	8.0	Vertical	<u>PASS</u>
19067.332	-30.29	-13.0	17.3	323.4	Vertical	<u>PASS</u>

(Plot L.2: HSPA+ 1900 MHz Channel = 9262, Test Antenna Vertical)



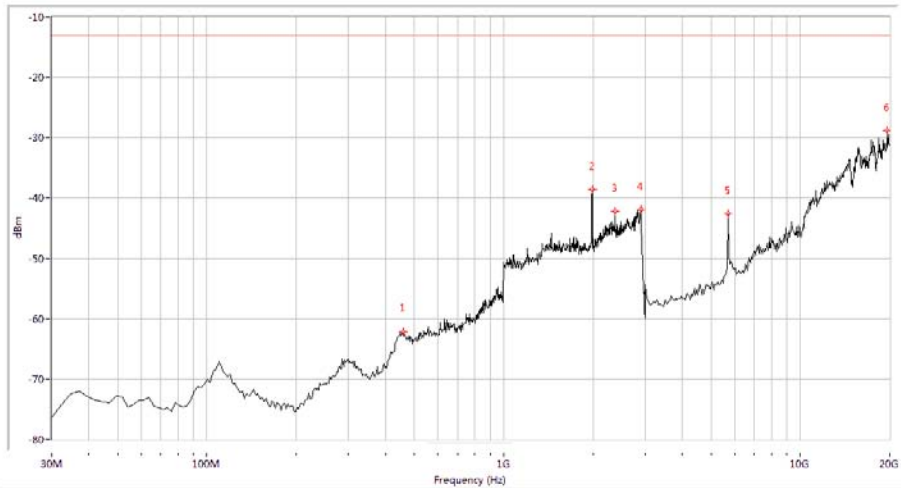
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
448.479	-60.92	-13.0	47.9	163.4	Horizontal	<u>PASS</u>
1957.606	-44.24	-13.0	31.2	89.7	Horizontal	<u>PASS</u>
2830.424	-43.16	-13.0	30.2	6.0	Horizontal	<u>PASS</u>
5628.429	-45.28	-13.0	32.3	72.1	Horizontal	<u>PASS</u>
15718.204	-31.34	-13.0	18.3	137.6	Horizontal	<u>PASS</u>
19872.818	-29.27	-13.0	16.3	208.9	Horizontal	<u>PASS</u>

(Plot L.3: HSPA+ 1900 MHz Channel = 9400, Test Antenna Horizontal)



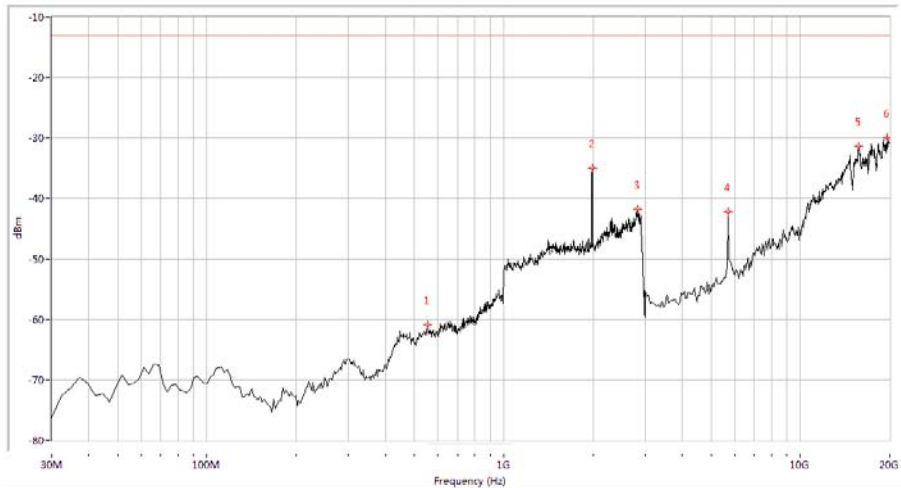
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
470.249	-60.42	-13.0	47.4	312.8	Vertical	<u>PASS</u>
1957.606	-40.70	-13.0	27.7	284.6	Vertical	<u>PASS</u>
2605.985	-41.81	-13.0	28.8	54.0	Vertical	<u>PASS</u>
5628.429	-45.14	-13.0	32.1	12.6	Vertical	<u>PASS</u>
15760.599	-31.76	-13.0	18.8	5.9	Vertical	<u>PASS</u>
17329.177	-30.78	-13.0	17.8	117.4	Vertical	<u>PASS</u>

(Plot L.4: HSPA+ 1900 MHz Channel = 9400, Test Antenna Vertical)



Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
458.155	-62.17	-13.0	49.2	124.6	Horizontal	<u>PASS</u>
1987.531	-38.61	-13.0	25.6	87.9	Horizontal	<u>PASS</u>
2376.559	-42.12	-13.0	29.1	3.0	Horizontal	<u>PASS</u>
2900.249	-41.90	-13.0	28.9	69.5	Horizontal	<u>PASS</u>
5713.217	-42.56	-13.0	29.6	244.8	Horizontal	<u>PASS</u>
19660.848	-28.90	-13.0	15.9	305.1	Horizontal	<u>PASS</u>

(Plot L.5: HSPA+ 1900 MHz Channel = 9538, Test Antenna Horizontal)



Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
554.913	-60.88	-13.0	47.9	154.9	Vertical	<u>PASS</u>
1987.531	-34.95	-13.0	22.0	261.4	Vertical	<u>PASS</u>
2830.424	-41.80	-13.0	28.8	228.4	Vertical	<u>PASS</u>
5713.217	-42.19	-13.0	29.2	167.9	Vertical	<u>PASS</u>
15760.599	-31.34	-13.0	18.3	15.1	Vertical	<u>PASS</u>
19618.454	-29.91	-13.0	16.9	0.4	Vertical	<u>PASS</u>

(Plot L.6: HSPA+ 1900 MHz Channel = 9538, Test Antenna Vertical)

**** END OF REPORT ****