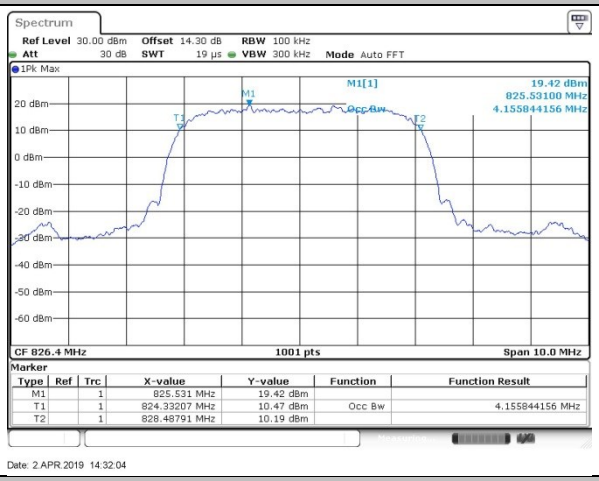
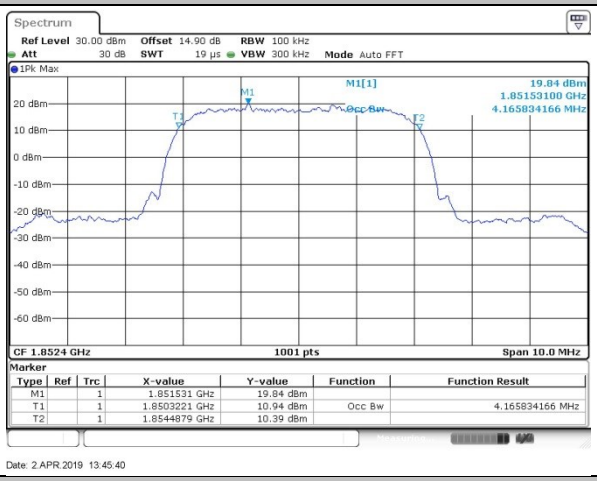
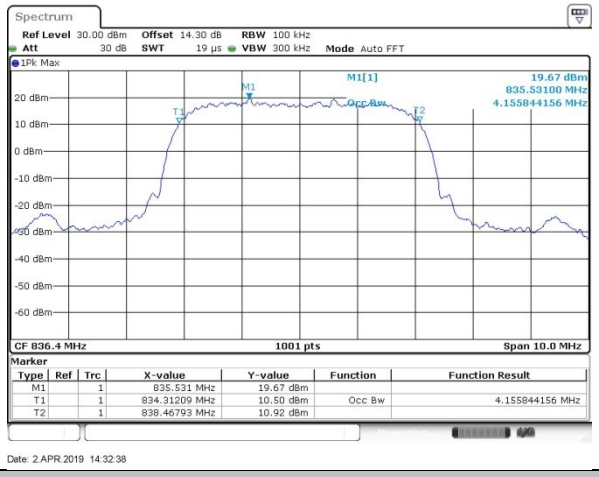
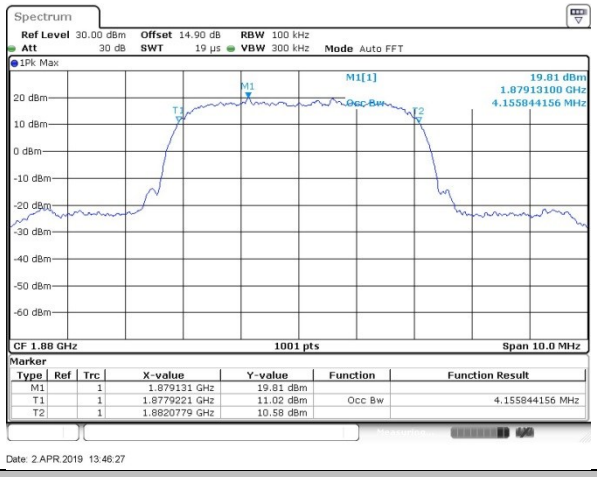
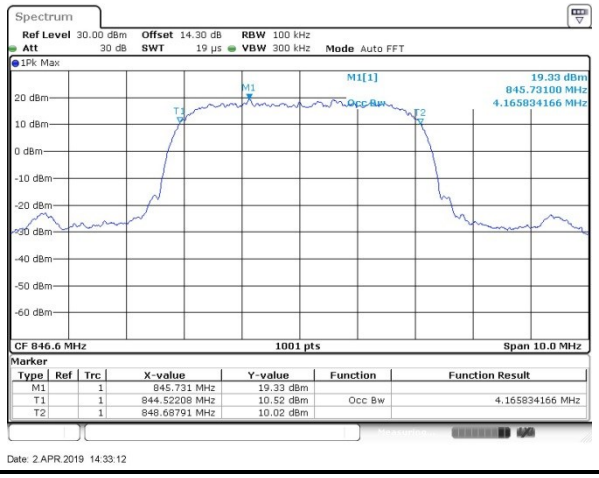
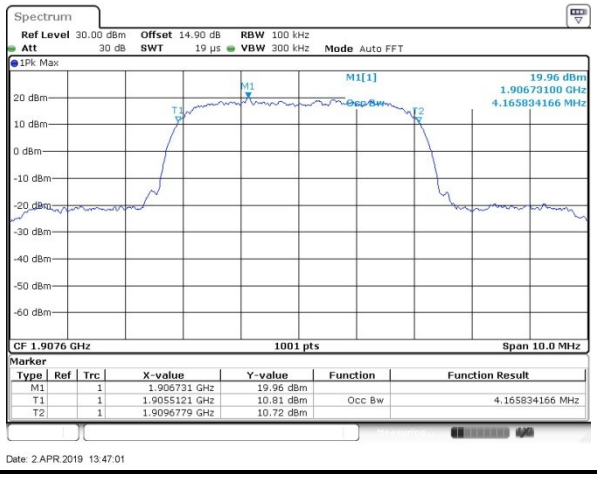
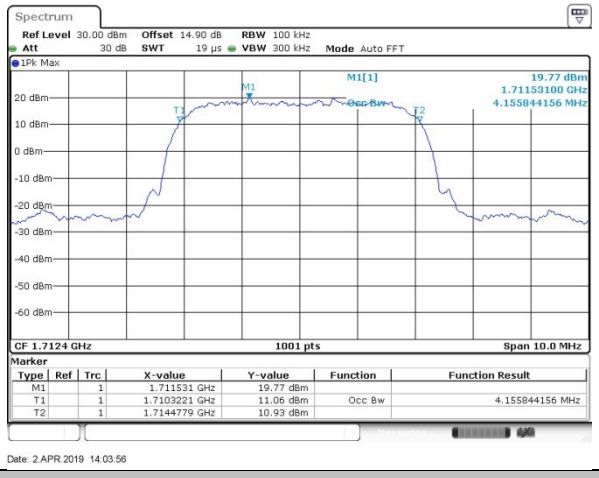
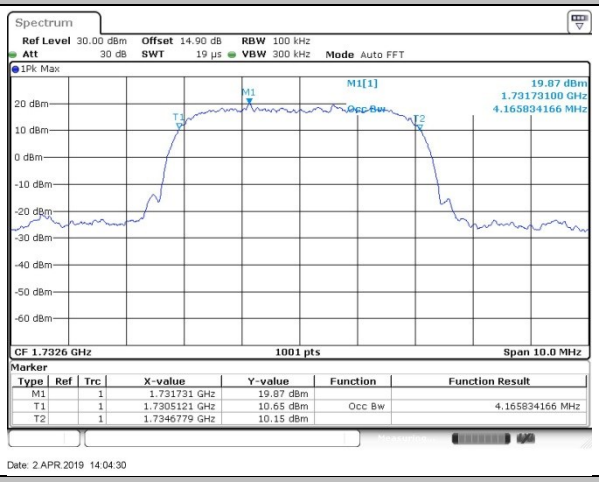
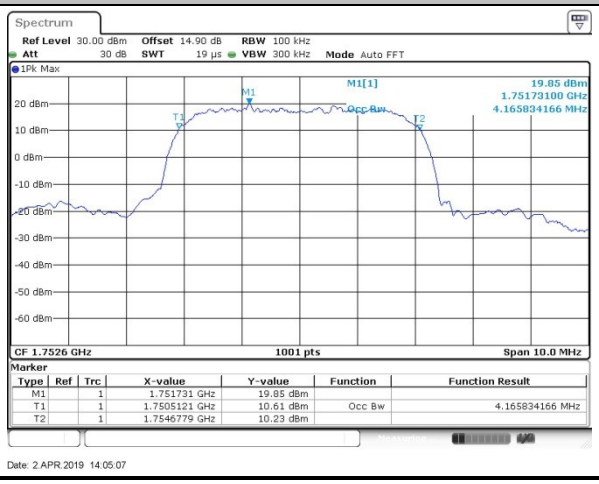
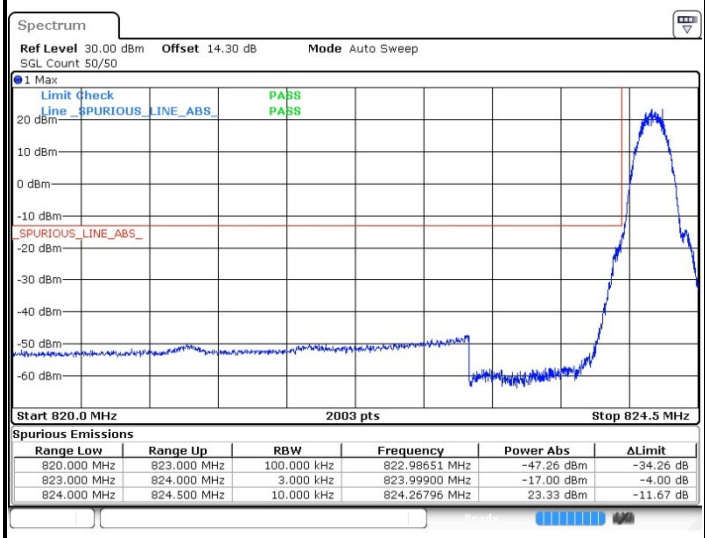
WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
Lowest Channel	**Lowest Channel**
	
Middle Channel	**Middle Channel**
	
Highest Channel	**Highest Channel**
	

WCDMA Band IV (RMC 12.2Kbps)	
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

Conducted Band Edge

GSM850 (GSM)

Lowest Band Edge

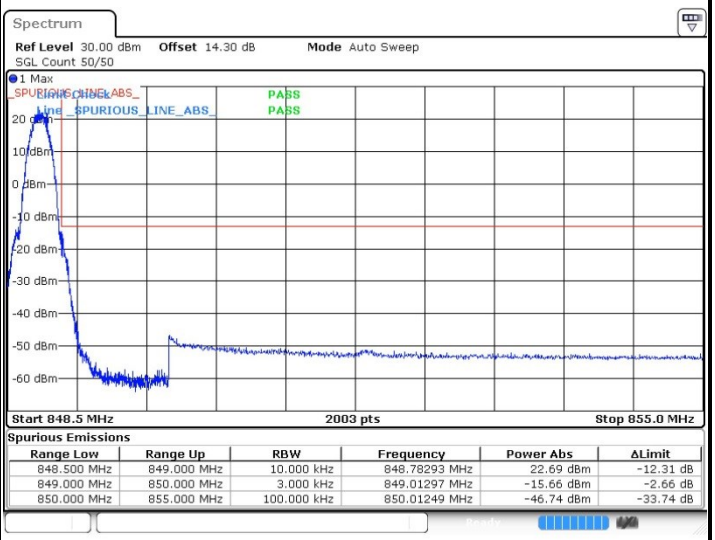


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
820.000 MHz	823.000 MHz	100.000 kHz	822.98651 MHz	-47.26 dBm	-34.26 dB
823.000 MHz	824.000 MHz	3.000 kHz	823.99900 MHz	-17.00 dBm	-4.00 dB
824.000 MHz	824.500 MHz	10.000 kHz	824.26796 MHz	23.33 dBm	-11.67 dB

Date: 2.APR.2019 10:07:26

Highest Band Edge



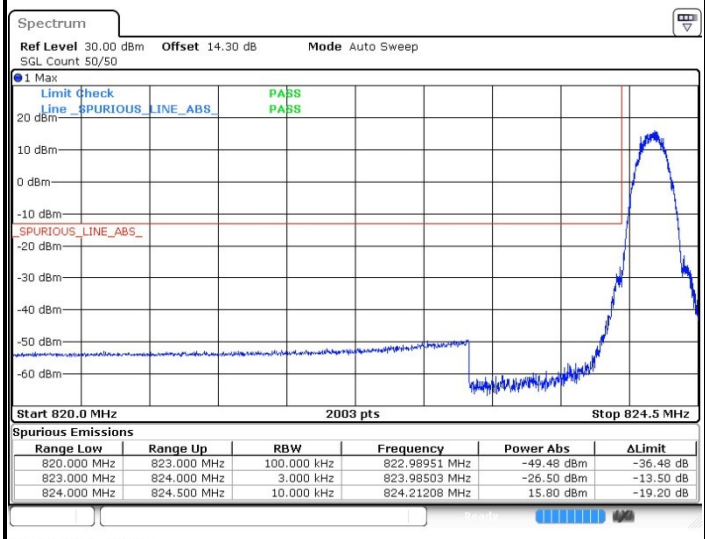
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
848.500 MHz	849.000 MHz	10.000 kHz	848.78293 MHz	22.69 dBm	-12.31 dB
849.000 MHz	850.000 MHz	3.000 kHz	849.01297 MHz	-15.66 dBm	-2.66 dB
850.000 MHz	855.000 MHz	100.000 kHz	850.01249 MHz	-46.74 dBm	-33.74 dB

Date: 2.APR.2019 10:08:58

GSM850 (EDGE class 8)

Lowest Band Edge

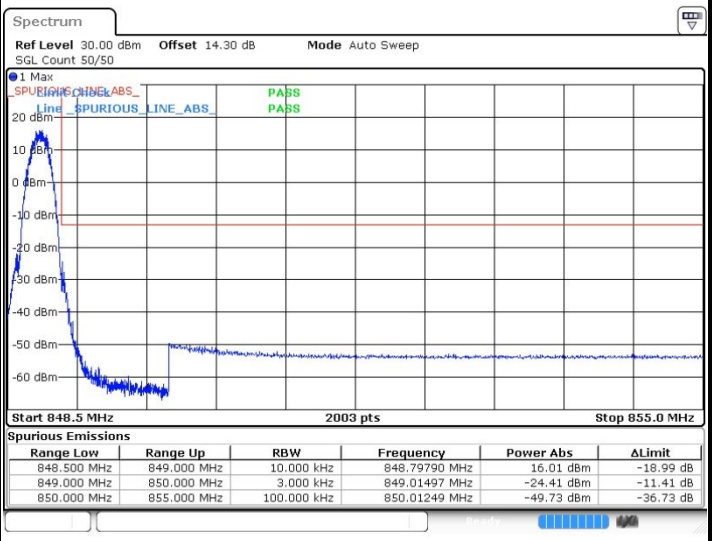


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
820.000 MHz	823.000 MHz	100.000 kHz	822.98951 MHz	-49.48 dBm	-36.48 dB
823.000 MHz	824.000 MHz	3.000 kHz	823.98503 MHz	-26.50 dBm	-13.50 dB
824.000 MHz	824.500 MHz	10.000 kHz	824.21208 MHz	15.80 dBm	-19.20 dB

Date: 2.APR.2019 10:36:30

Highest Band Edge



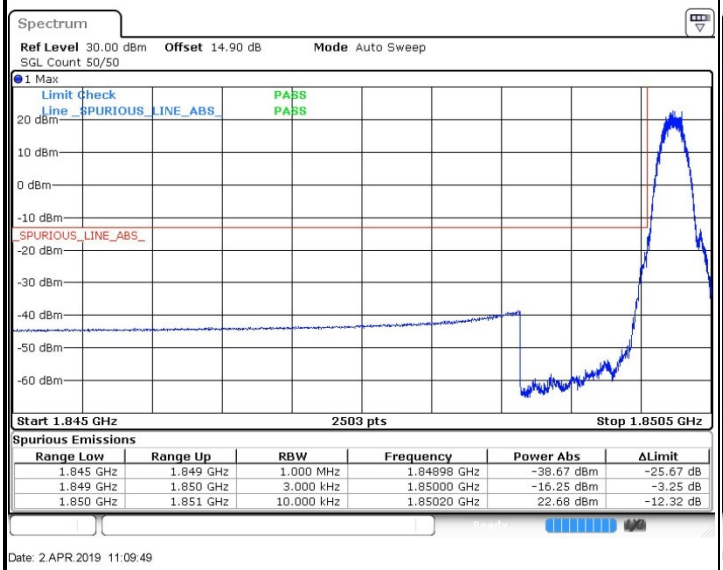
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
848.500 MHz	849.000 MHz	10.000 kHz	848.79790 MHz	16.01 dBm	-18.99 dB
849.000 MHz	850.000 MHz	3.000 kHz	849.01497 MHz	-24.41 dBm	-11.41 dB
850.000 MHz	855.000 MHz	100.000 kHz	850.01249 MHz	-49.73 dBm	-36.73 dB

Date: 2.APR.2019 10:38:02

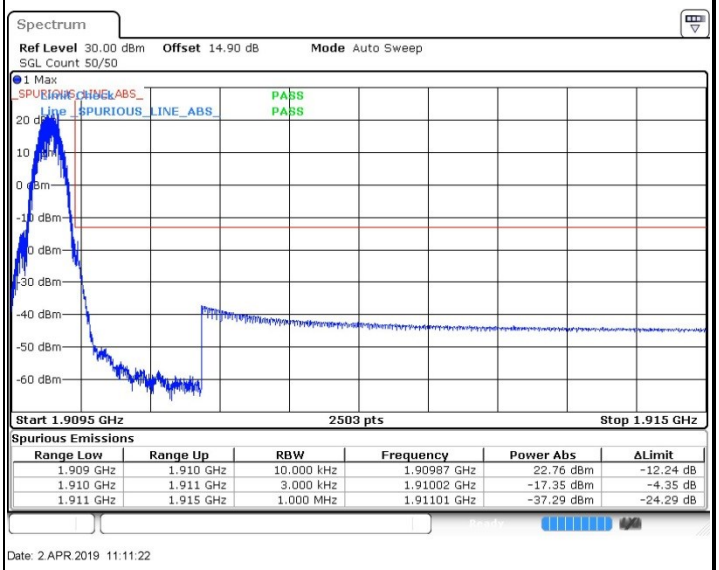
GSM1900 (GSM)

Lowest Band Edge



Date: 2.APR.2019 11:09:49

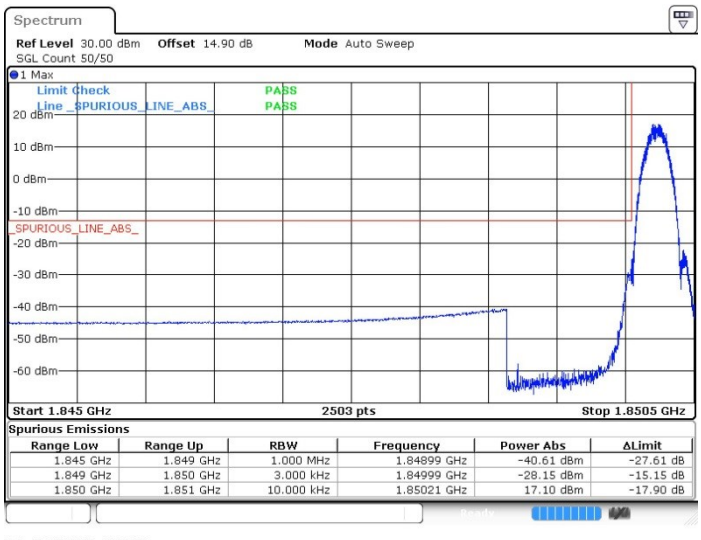
Highest Band Edge



Date: 2.APR.2019 11:11:22

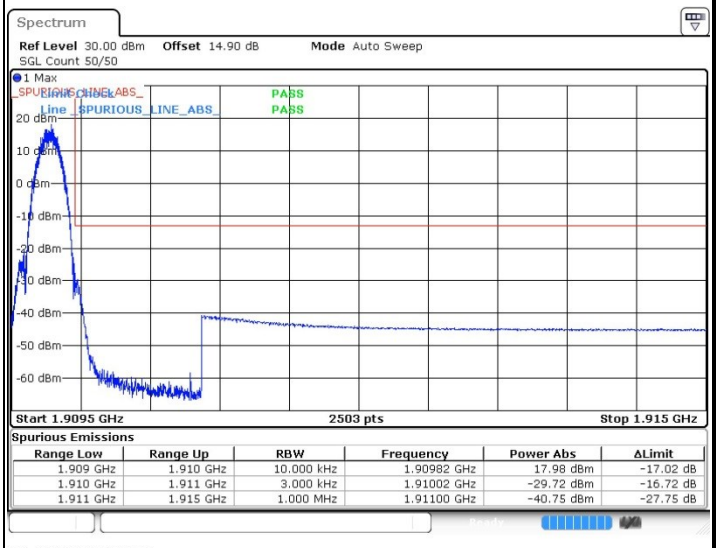
GSM1900 (EDGE class 8)

Lowest Band Edge



Date: 2.APR.2019 11:31:35

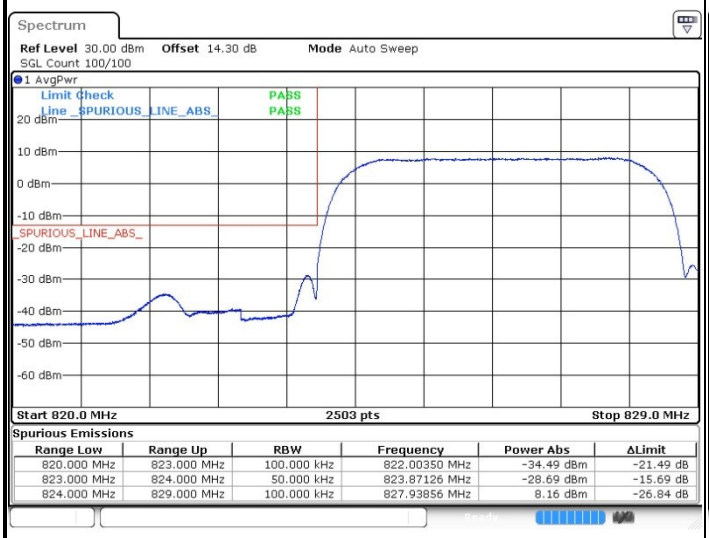
Highest Band Edge



Date: 2.APR.2019 11:33:10

WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge

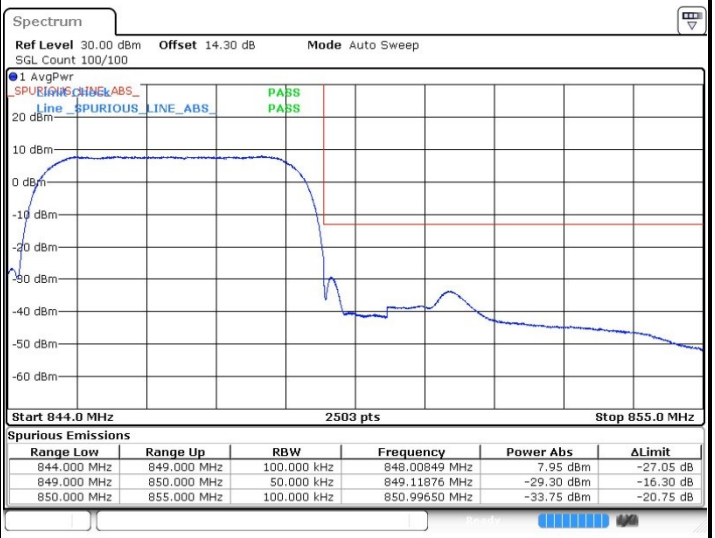


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
820.000 MHz	823.000 MHz	100.000 kHz	822.00350 MHz	-34.49 dBm	-21.49 dB
823.000 MHz	824.000 MHz	50.000 kHz	823.87126 MHz	-28.69 dBm	-15.69 dB
824.000 MHz	829.000 MHz	100.000 kHz	827.93856 MHz	8.16 dBm	-26.84 dB

Date: 2.APR.2019 14:36:07

Highest Band Edge



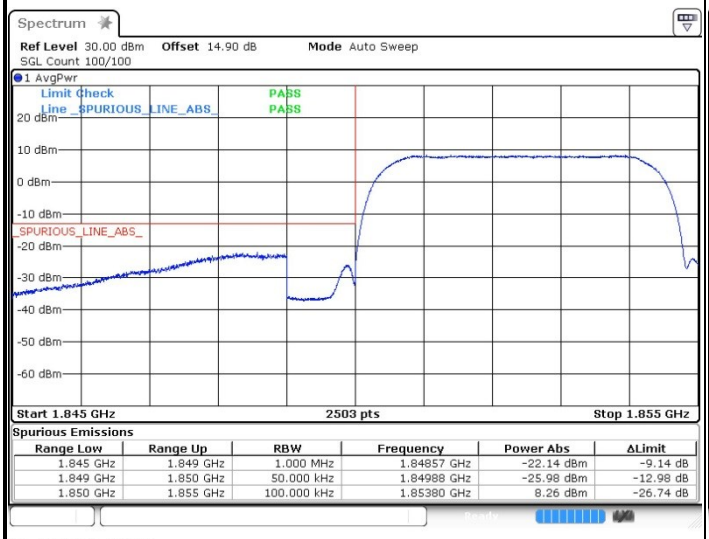
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
844.000 MHz	849.000 MHz	100.000 kHz	848.00849 MHz	7.95 dBm	-27.05 dB
849.000 MHz	850.000 MHz	50.000 kHz	849.11876 MHz	-29.30 dBm	-16.30 dB
850.000 MHz	855.000 MHz	100.000 kHz	850.99650 MHz	-33.75 dBm	-20.75 dB

Date: 2.APR.2019 14:39:00

WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge

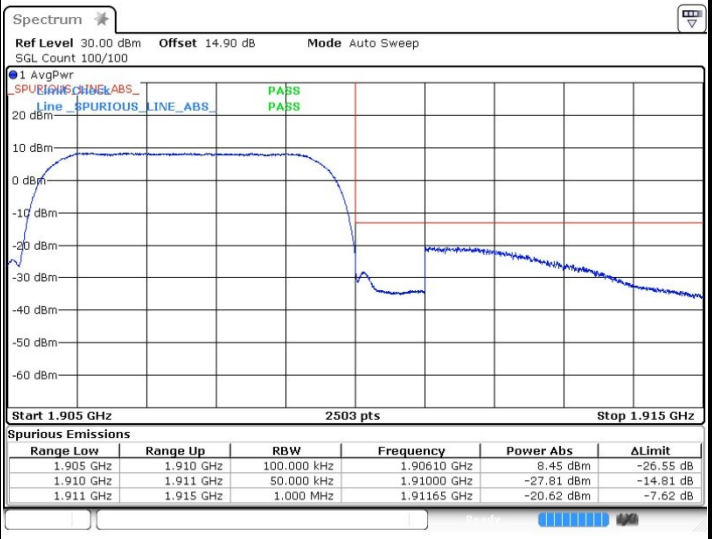


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.845 GHz	1.849 GHz	1.000 MHz	1.84857 GHz	-22.14 dBm	-9.14 dB
1.849 GHz	1.850 GHz	50.000 kHz	1.84988 GHz	-25.98 dBm	-12.98 dB
1.850 GHz	1.855 GHz	100.000 kHz	1.85380 GHz	8.26 dBm	-26.74 dB

Date: 2.APR.2019 11:57:29

Highest Band Edge

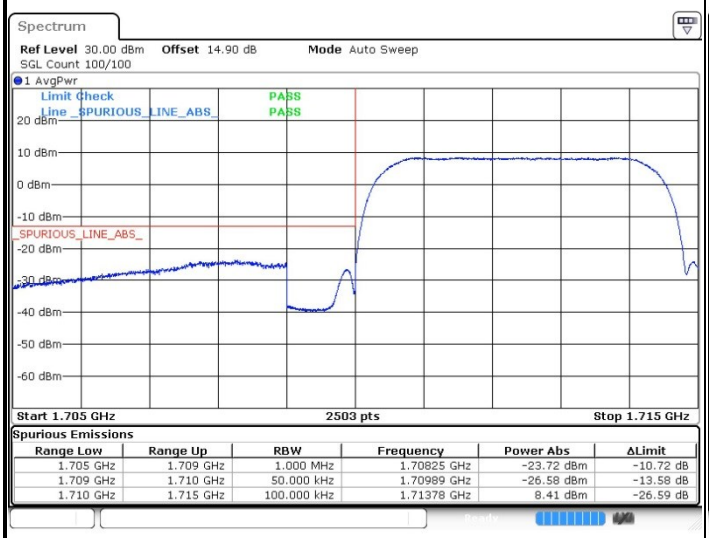


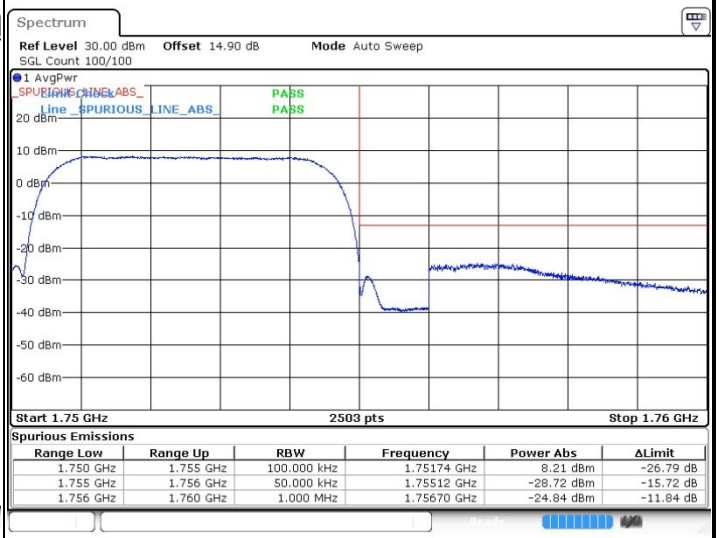
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.905 GHz	1.910 GHz	100.000 kHz	1.90610 GHz	8.45 dBm	-26.55 dB
1.910 GHz	1.911 GHz	50.000 kHz	1.91000 GHz	-27.81 dBm	-14.81 dB
1.911 GHz	1.915 GHz	1.000 MHz	1.91165 GHz	-20.62 dBm	-7.62 dB

Date: 2.APR.2019 12:00:21

WCDMA Band IV (RMC 12.2Kbps)	
Lowest Band Edge	**Highest Band Edge**

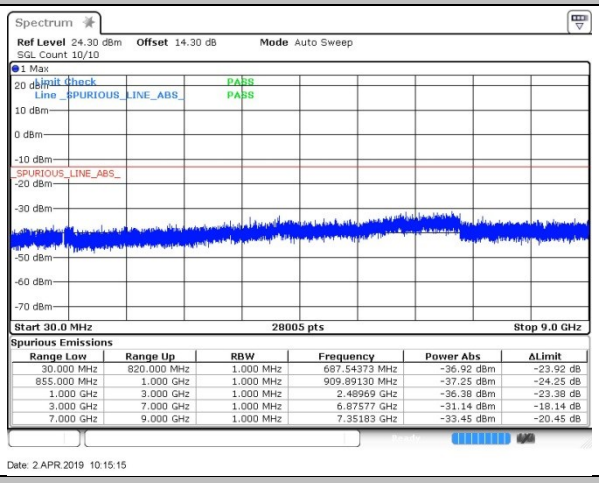




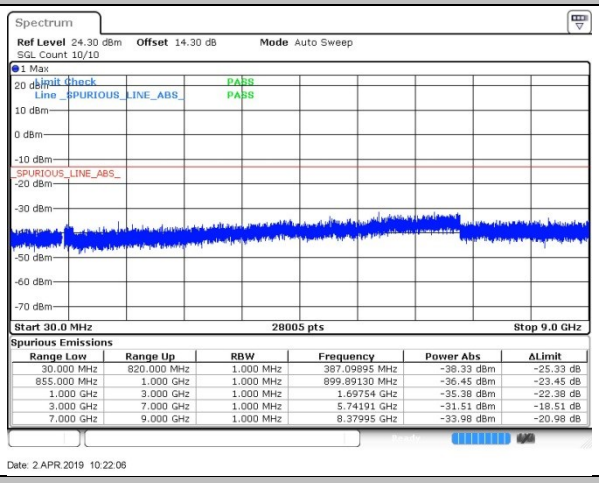
Conducted Spurious Emission

GSM850 (GSM)

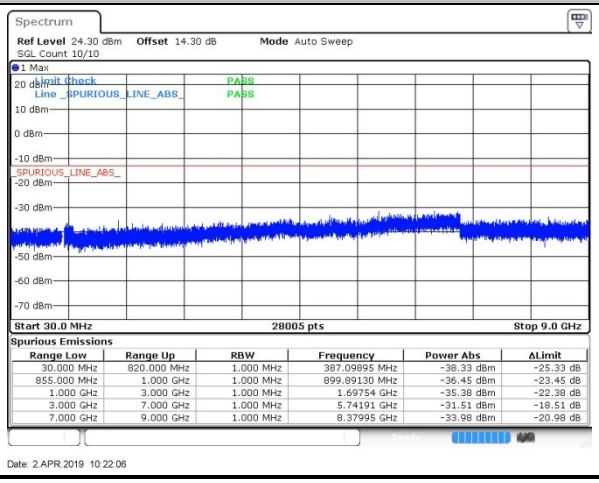
Lowest Channel



Middle Channel

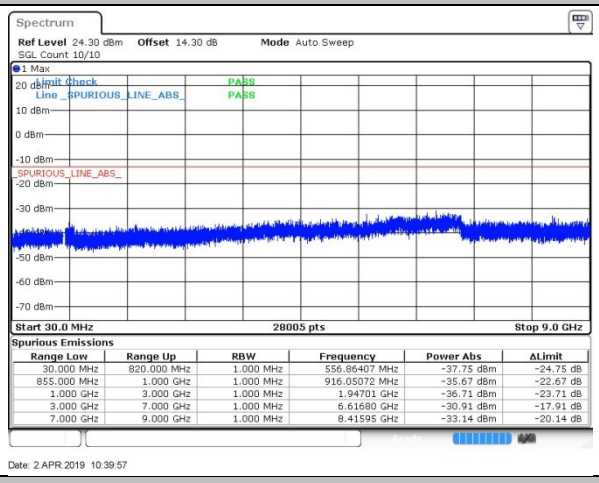


Highest Channel

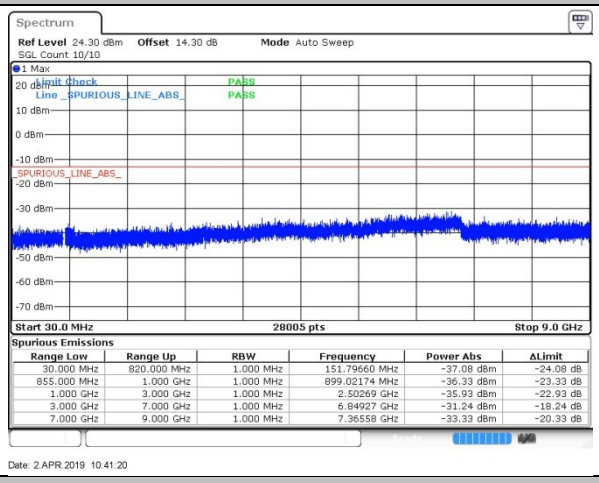


GSM850 (EDGE class 8)

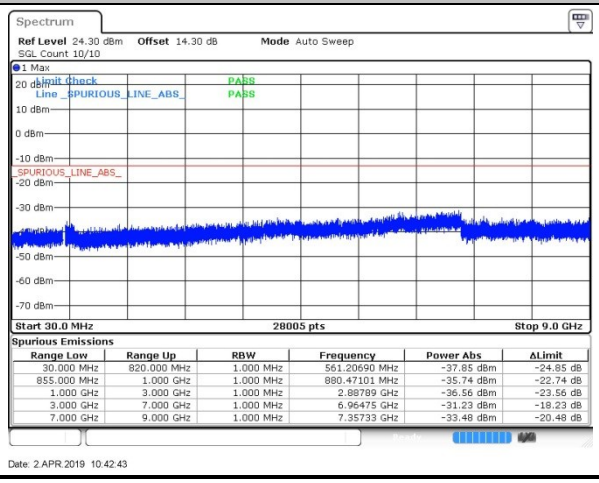
Lowest Channel

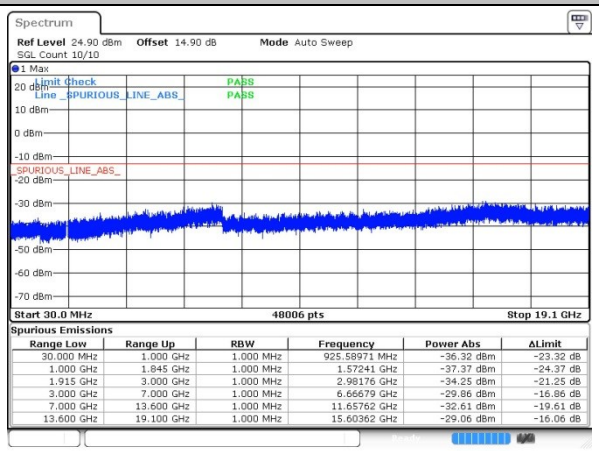
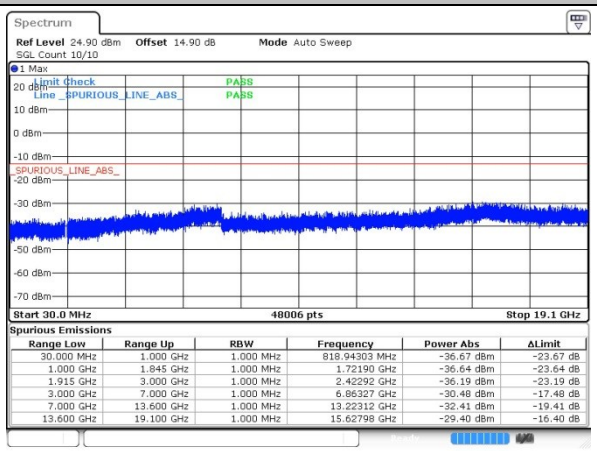
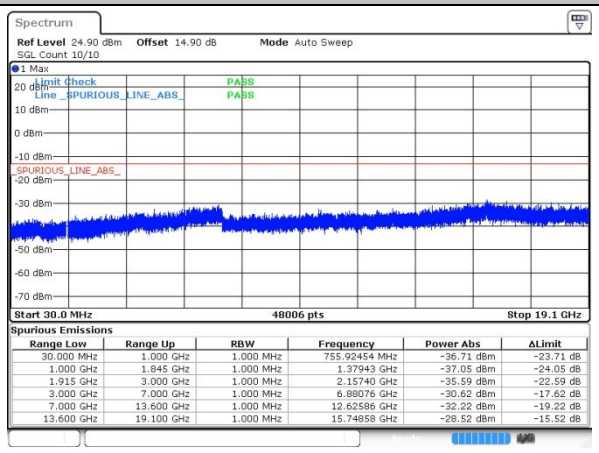
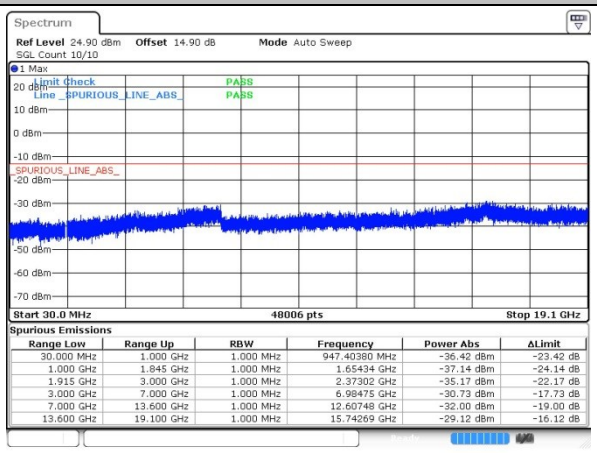
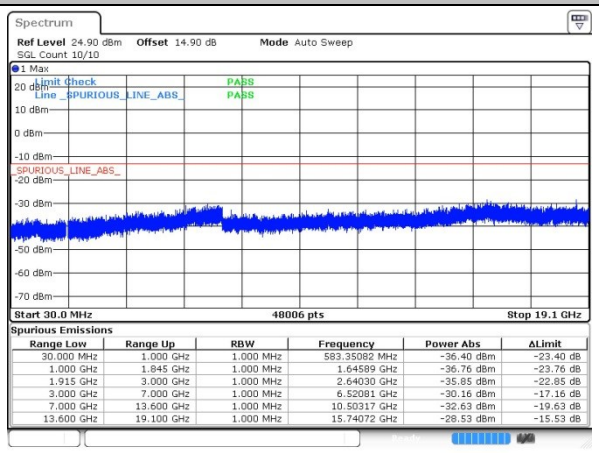
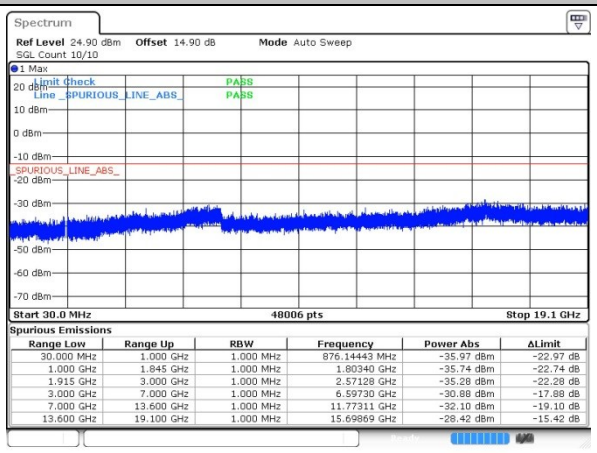


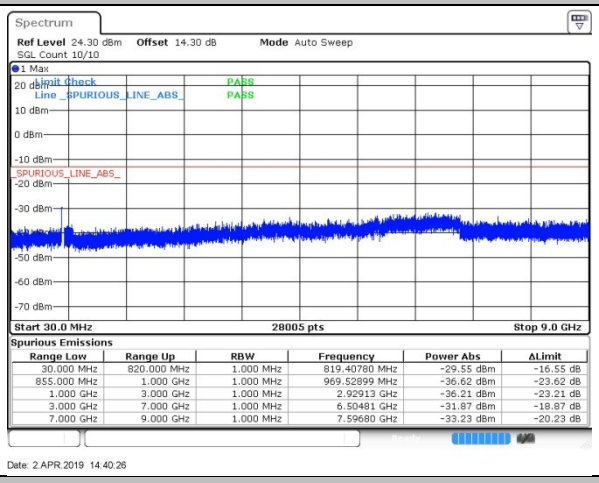
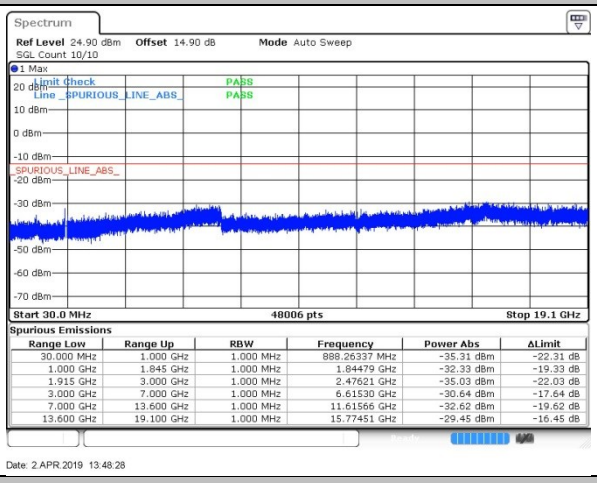
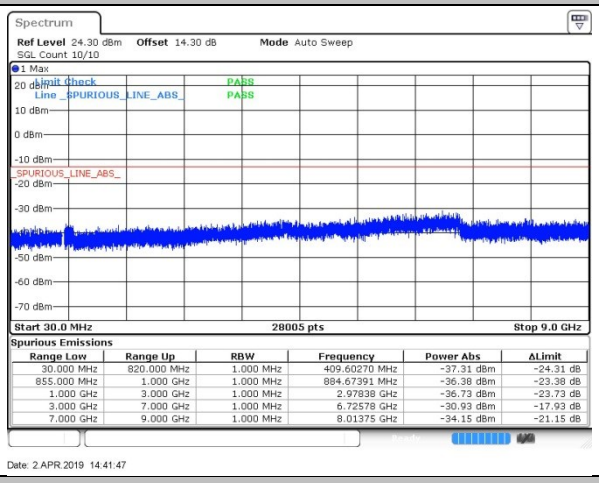
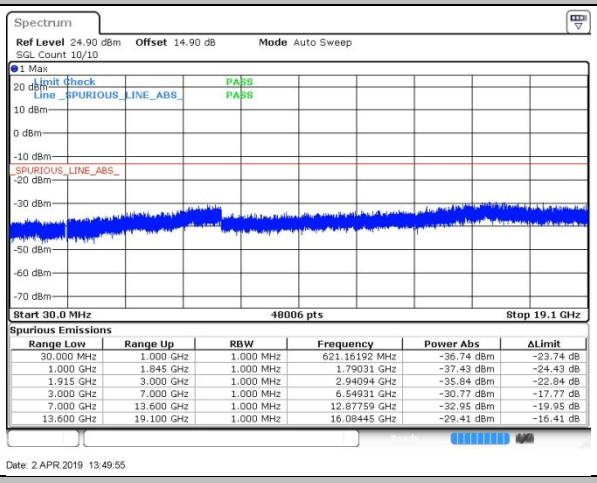
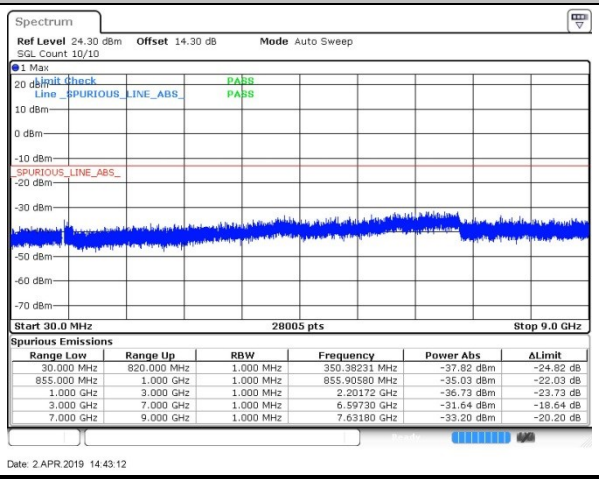
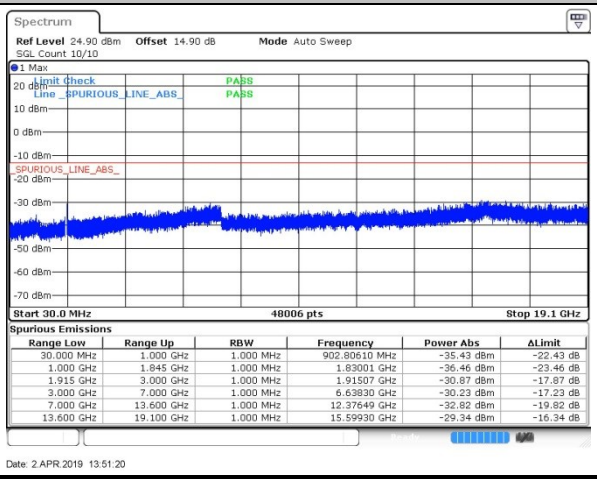
Middle Channel

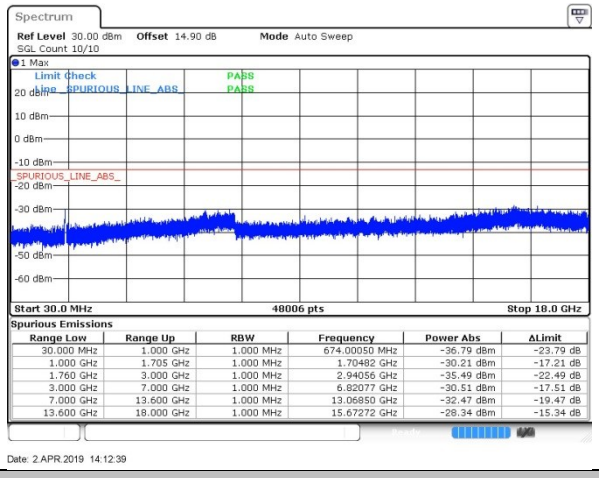
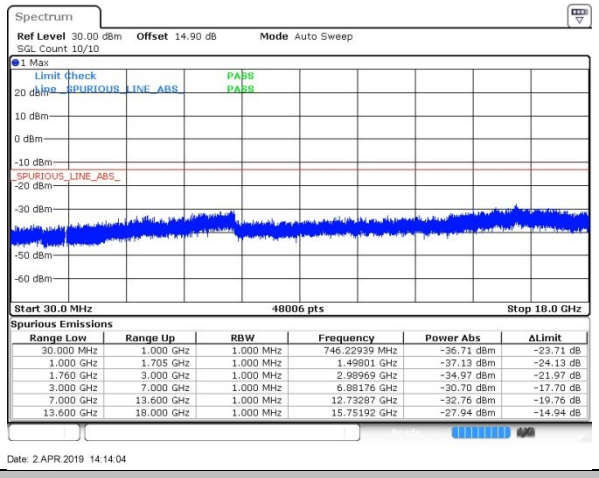
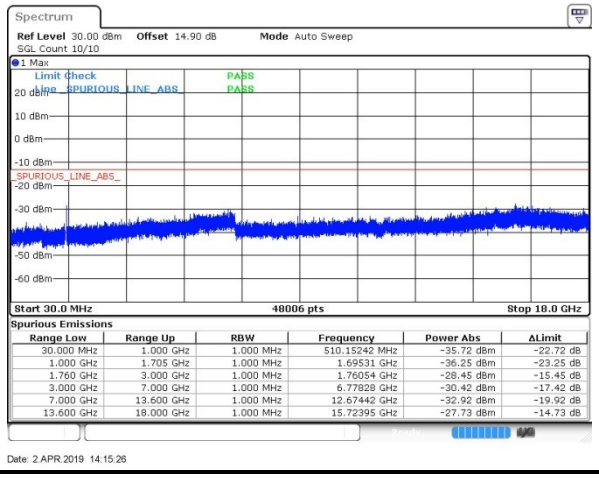


Highest Channel



GSM1900 (GSM)	GSM1900 (EDGE class 8)
Lowest Channel	**Lowest Channel**
	
Middle Channel	**Middle Channel**
	
Highest Channel	**Highest Channel**
	

WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
Lowest Channel	**Lowest Channel**
	
Middle Channel	**Middle Channel**
	
Highest Channel	**Highest Channel**
	

WCDMA Band IV (RMC 12.2Kbps)	
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

Frequency Stability

Test Conditions	Middle Channel	GSM850 (GSM)	GSM850 (EDGE class 8)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0048	0.0060	PASS
40	Normal Voltage	0.0526	0.0167	
30	Normal Voltage	0.0120	0.0538	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0574	0.0335	
0	Normal Voltage	0.0191	0.0538	
-10	Normal Voltage	0.0084	0.0466	
-20	Normal Voltage	0.0143	0.0167	
-30	Normal Voltage	0.0108	0.0478	
20	Maximum Voltage	0.0466	0.0514	
20	Normal Voltage	0.0155	0.0132	
20	Battery End Point	0.0395	0.0395	

Note:

1. Normal Voltage = 4V ；Battery End Point (BEP) =3.6V.；Maximum Voltage =4.35V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0053	0.0005	PASS
40	Normal Voltage	0.0016	0.0016	
30	Normal Voltage	0.0027	0.0021	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0170	0.0255	
0	Normal Voltage	0.0074	0.0186	
-10	Normal Voltage	0.0160	0.0011	
-20	Normal Voltage	0.0218	0.0037	
-30	Normal Voltage	0.0005	0.0213	
20	Maximum Voltage	0.0053	0.0160	
20	Normal Voltage	0.0021	0.0016	
20	Battery End Point	0.0133	0.0011	

Note:

1. Normal Voltage = 4V ；Battery End Point (BEP) =3.6V.；Maximum Voltage =4.35V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2KbpsRMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0060	PASS
40	Normal Voltage	0.0395	
30	Normal Voltage	0.0442	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0072	
0	Normal Voltage	0.0323	
-10	Normal Voltage	0.0048	
-20	Normal Voltage	0.0167	
-30	Normal Voltage	0.0311	
20	Maximum Voltage	0.0442	
20	Normal Voltage	0.0155	
20	Battery End Point	0.0012	

Note:

1. Normal Voltage = 4V ；Battery End Point (BEP) =3.6V.；Maximum Voltage =4.35V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0186	PASS
40	Normal Voltage	0.0128	
30	Normal Voltage	0.0165	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0117	
0	Normal Voltage	0.0154	
-10	Normal Voltage	0.0239	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0117	
20	Maximum Voltage	0.0165	
20	Normal Voltage	0.0005	
20	Battery End Point	0.0032	

Note:

1. Normal Voltage = 4V ；Battery End Point (BEP) =3.6V.；Maximum Voltage =4.35V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0069	PASS
40	Normal Voltage	0.0156	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0058	
-10	Normal Voltage	0.0150	
-20	Normal Voltage	0.0167	
-30	Normal Voltage	0.0092	
20	Maximum Voltage	0.0092	
20	Normal Voltage	0.0006	
20	Battery End Point	0.0167	

Note:

1. Normal Voltage = 4V ；Battery End Point (BEP) =3.6V.；Maximum Voltage =4.35V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

GSM850 (GSM)								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-56.09	-13	-43.09	-58.42	1.21	5.68	H
	2472	-54.87	-13	-41.87	-56.98	1.54	5.80	H
	3294	-57.77	-13	-44.77	-61.77	1.73	7.88	H
	1648	-49.44	-13	-36.44	-51.77	1.21	5.68	V
	2472	-49.92	-13	-36.92	-52.03	1.54	5.80	V
	3294	-56.24	-13	-43.24	-60.24	1.73	7.88	V
Middle	1672	-58.53	-13	-45.53	-60.86	1.21	5.68	H
	2508	-54.93	-13	-41.93	-57.04	1.54	5.80	H
	3348	-55.17	-13	-42.17	-59.17	1.73	7.88	H
	1672	-51.42	-13	-38.42	-53.75	1.21	5.68	V
	2510	-47.78	-13	-34.78	-49.89	1.54	5.80	V
	3348	-52.85	-13	-39.85	-56.85	1.73	7.88	V
Highest	1698	-56.14	-13	-43.14	-58.47	1.21	5.68	H
	2546	-51.76	-13	-38.76	-53.87	1.54	5.80	H
	3396	-55.94	-13	-42.94	-59.94	1.73	7.88	H
	1698	-51.42	-13	-38.42	-53.75	1.21	5.68	V
	2546	-38.28	-13	-25.28	-40.39	1.54	5.80	V
	3396	-55.23	-13	-42.23	-59.23	1.73	7.88	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

GSM850 (EDGE class 8)								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-57.87	-13	-44.87	-60.20	1.21	5.68	H
	2472	-57.20	-13	-44.20	-59.31	1.54	5.80	H
	3294	-59.25	-13	-46.25	-63.25	1.73	7.88	H
	1648	-50.87	-13	-37.87	-53.20	1.21	5.68	V
	2472	-51.28	-13	-38.28	-53.39	1.54	5.80	V
	3294	-56.14	-13	-43.14	-60.14	1.73	7.88	V
Middle	1672	-56.90	-13	-43.90	-59.23	1.21	5.68	H
	2510	-58.69	-13	-45.69	-60.80	1.54	5.80	H
	3348	-58.25	-13	-45.25	-62.25	1.73	7.88	H
	1672	-51.45	-13	-38.45	-53.78	1.21	5.68	V
	2510	-54.20	-13	-41.20	-56.31	1.54	5.80	V
	3348	-57.03	-13	-44.03	-61.03	1.73	7.88	V
Highest	1698	-59.06	-13	-46.06	-61.39	1.21	5.68	H
	2546	-54.95	-13	-41.95	-57.06	1.54	5.80	H
	3396	-57.18	-13	-44.18	-61.18	1.73	7.88	H
	1698	-50.88	-13	-37.88	-53.21	1.21	5.68	V
	2546	-51.66	-13	-38.66	-53.77	1.54	5.80	V
	3396	-57.60	-13	-44.60	-61.60	1.73	7.88	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

GSM1900 (GSM)								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3699	-57.39	-13	-44.39	-63.96	1.848	8.42	H
	5550	-47.58	-13	-34.58	-55.94	2.32	10.68	H
	7404	-52.15	-13	-39.15	-61.48	2.61	11.94	H
	3699	-56.95	-13	-43.95	-63.52	1.85	8.42	V
	5550	-43.43	-13	-30.43	-51.79	2.32	10.68	V
	7404	-52.34	-13	-39.34	-61.67	2.61	11.94	V
Middle	3759	-55.18	-13	-42.18	-61.75	1.848	8.42	H
	5640	-42.22	-13	-29.22	-50.58	2.32	10.68	H
	7524	-51.49	-13	-38.49	-60.82	2.61	11.94	H
	3759	-54.61	-13	-41.61	-61.18	1.85	8.42	V
	5640	-47.17	-13	-34.17	-55.53	2.32	10.68	V
	7524	-52.06	-13	-39.06	-61.39	2.61	11.94	V
Highest	3819	-53.66	-13	-40.66	-60.23	1.848	8.42	H
	5730	-53.89	-13	-40.89	-62.25	2.32	10.68	H
	7644	-51.92	-13	-38.92	-61.25	2.61	11.94	H
	3819	-53.63	-13	-40.63	-60.20	1.85	8.42	V
	5729.4	-54.70	-13	-41.70	-63.06	2.32	10.68	V
	7644	-52.06	-13	-39.06	-61.39	2.61	11.94	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

GSM1900 (EDGE class 8)								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700.4	-58.09	-13	-45.09	-64.66	1.848	8.42	H
	5550	-54.01	-13	-41.01	-62.37	2.32	10.68	H
	7404	-52.11	-13	-39.11	-61.44	2.61	11.94	H
	3699	-57.72	-13	-44.72	-64.29	1.85	8.42	V
	5550	-51.32	-13	-38.32	-59.68	2.32	10.68	V
	7404	-52.44	-13	-39.44	-61.77	2.61	11.94	V
Middle	3759	-56.56	-13	-43.56	-63.13	1.848	8.42	H
	5640	-53.80	-13	-40.80	-62.16	2.32	10.68	H
	7524	-52.17	-13	-39.17	-61.50	2.61	11.94	H
	3759	-54.87	-13	-41.87	-61.44	1.85	8.42	V
	5640	-48.21	-13	-35.21	-56.57	2.32	10.68	V
	7524	-52.54	-13	-39.54	-61.87	2.61	11.94	V
Highest	3819	-52.74	-13	-39.74	-59.31	1.848	8.42	H
	5730	-53.31	-13	-40.31	-61.67	2.32	10.68	H
	7644	-52.13	-13	-39.13	-61.46	2.61	11.94	H
	3819.6	-56.93	-13	-43.93	-63.50	1.85	8.42	V
	5730	-49.84	-13	-36.84	-58.20	2.32	10.68	V
	7644	-52.43	-13	-39.43	-61.76	2.61	11.94	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

WCDMA Band V(RMC 12.2Kbps)								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1652.8	-65.05	-13	-52.05	-67.38	1.21	5.68	H
	2480	-62.85	-13	-49.85	-64.96	1.54	5.80	H
	3306	-60.23	-13	-47.23	-64.23	1.73	7.88	H
	1652	-61.40	-13	-48.40	-63.73	1.21	5.68	V
	2480	-62.07	-13	-49.07	-64.18	1.54	5.80	V
	3306	-60.58	-13	-47.58	-64.58	1.73	7.88	V
Middle	1672	-64.69	-13	-51.69	-67.02	1.21	5.68	H
	2509.2	-63.14	-13	-50.14	-65.25	1.54	5.80	H
	3348	-60.29	-13	-47.29	-64.29	1.73	7.88	H
	1672	-61.30	-13	-48.30	-63.63	1.21	5.68	V
	2510	-61.59	-13	-48.59	-63.70	1.54	5.80	V
	3348	-60.46	-13	-47.46	-64.46	1.73	7.88	V
Highest	1693.2	-62.80	-13	-49.80	-65.13	1.21	5.68	H
	2540	-62.83	-13	-49.83	-64.94	1.54	5.80	H
	3384	-60.26	-13	-47.26	-64.26	1.73	7.88	H
	1694	-60.70	-13	-47.70	-63.03	1.21	5.68	V
	2540	-61.12	-13	-48.12	-63.23	1.54	5.80	V
	3384	-60.61	-13	-47.61	-64.61	1.73	7.88	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

WCDMA Band II(RMC 12.2Kbps)								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3705	-57.79	-13	-44.79	-64.36	1.848	8.42	H
	5557.2	-54.59	-13	-41.59	-62.95	2.32	10.68	H
	7404	-52.30	-13	-39.30	-61.63	2.61	11.94	H
	3704.8	-57.75	-13	-44.75	-64.32	1.85	8.42	V
	5556	-55.33	-13	-42.33	-63.69	2.32	10.68	V
	7404	-52.52	-13	-39.52	-61.85	2.61	11.94	V
Middle	3759	-57.63	-13	-44.63	-64.20	1.848	8.42	H
	5640	-53.90	-13	-40.90	-62.26	2.32	10.68	H
	7524	-51.95	-13	-38.95	-61.28	2.61	11.94	H
	3760	-57.24	-13	-44.24	-63.81	1.85	8.42	V
	5640	-55.30	-13	-42.30	-63.66	2.32	10.68	V
	7524	-52.48	-13	-39.48	-61.81	2.61	11.94	V
Highest	3816	-57.30	-13	-44.30	-63.87	1.848	8.42	H
	5722.8	-54.68	-13	-41.68	-63.04	2.32	10.68	H
	7632	-52.51	-13	-39.51	-61.84	2.61	11.94	H
	3815.2	-57.17	-13	-44.17	-63.74	1.85	8.42	V
	5724	-55.56	-13	-42.56	-63.92	2.32	10.68	V
	7632	-52.53	-13	-39.53	-61.86	2.61	11.94	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

WCDMA Band IV(RMC 12.2Kbps)								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3426	-57.92	-13	-44.92	-64.24	1.81	8.13	H
	5136	-54.81	-13	-41.81	-62.79	2.222	10.20	H
	6852	-52.82	-13	-39.82	-61.64	2.54	11.36	H
	3426	-58.44	-13	-45.44	-64.76	1.81	8.13	V
	5137.2	-56.07	-13	-43.07	-64.05	2.222	10.20	V
	6852	-53.63	-13	-40.63	-62.45	2.54	11.36	V
Middle	3465	-58.27	-13	-45.27	-64.59	1.81	8.13	H
	5199	-55.43	-13	-42.43	-63.41	2.222	10.20	H
	6936	-52.77	-13	-39.77	-61.59	2.54	11.36	H
	3465	-58.31	-13	-45.31	-64.63	1.81	8.13	V
	5199	-56.15	-13	-43.15	-64.13	2.222	10.20	V
	6936	-53.44	-13	-40.44	-62.26	2.54	11.36	V
Highest	3504	-58.37	-13	-45.37	-64.69	1.81	8.13	H
	5257.8	-55.53	-13	-42.53	-63.51	2.222	10.20	H
	7008	-52.29	-13	-39.29	-61.11	2.54	11.36	H
	3505.2	-58.19	-13	-45.19	-64.51	1.81	8.13	V
	5259	-55.91	-13	-42.91	-63.89	2.222	10.20	V
	7008	-53.33	-13	-40.33	-62.15	2.54	11.36	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.