



GSM1900 (GSM)

Lowest Channel



Date: 6 JUL 2018 11:29:02

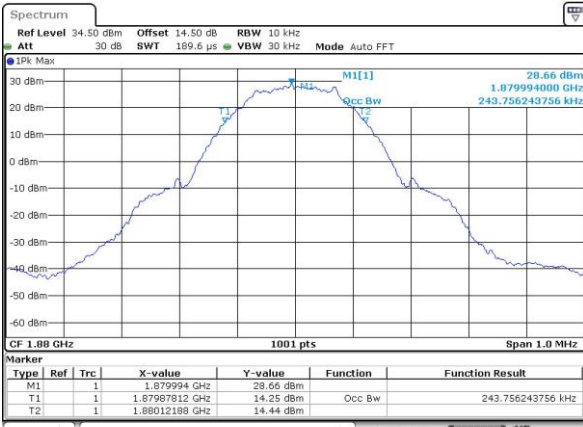
GSM1900 (EDGE class 8)

Lowest Channel



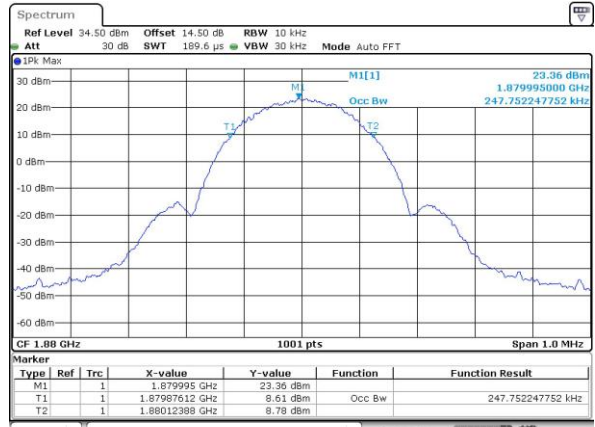
Date: 6 JUL 2018 13:45:31

Middle Channel



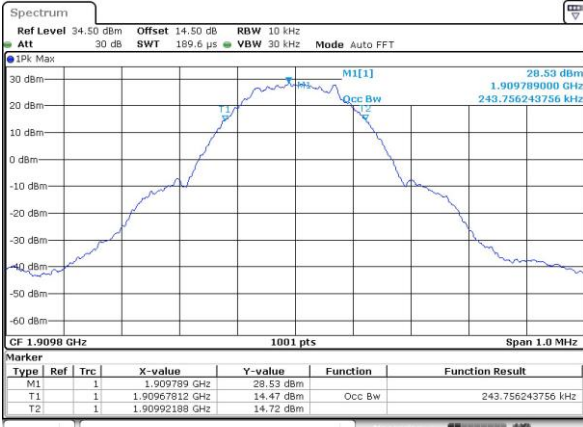
Date: 6 JUL 2018 11:29:46

Middle Channel



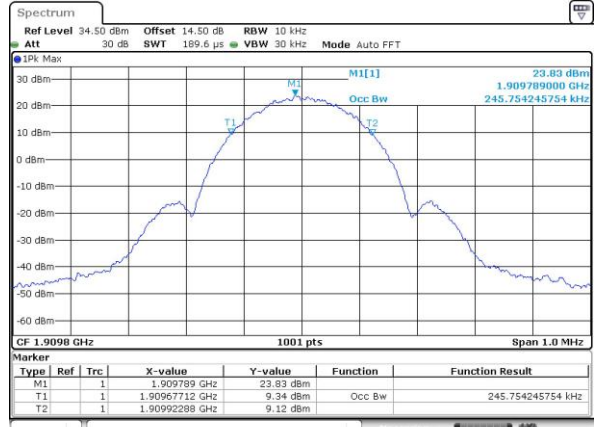
Date: 6 JUL 2018 13:46:01

Highest Channel



Date: 6 JUL 2018 11:30:16

Highest Channel

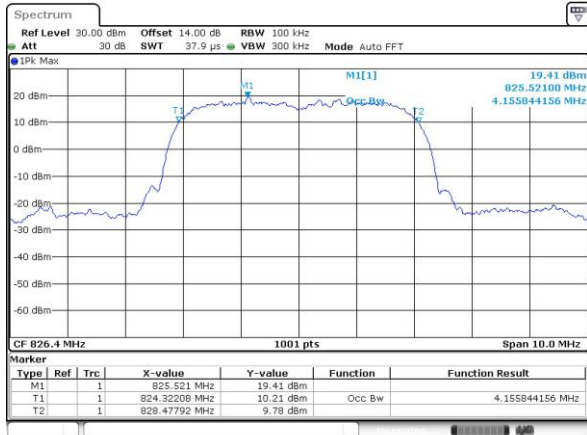


Date: 6 JUL 2018 13:46:33



WCDMA Band V (RMC 12.2Kbps)

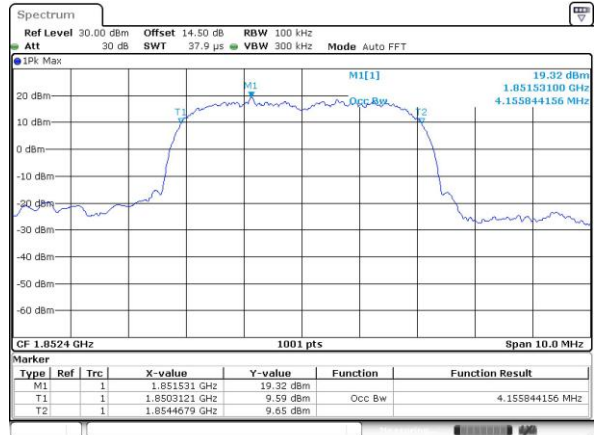
Lowest Channel



Date: 6 JUL 2018 17:58:04

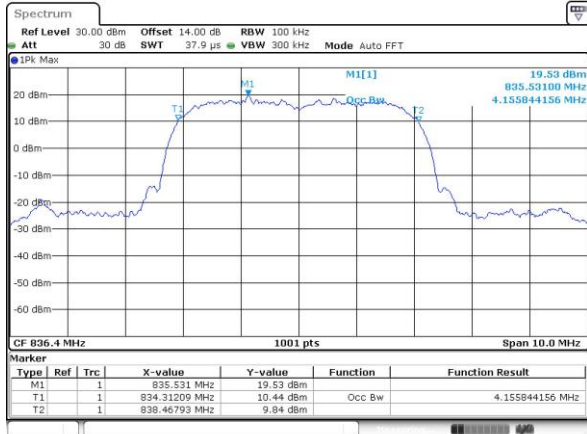
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



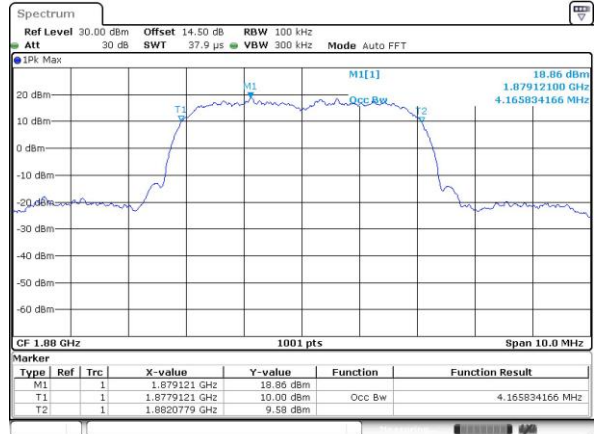
Date: 6 JUL 2018 14:00:56

Middle Channel



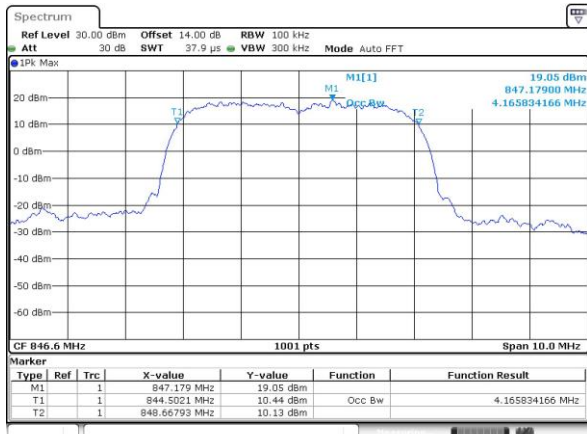
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Middle Channel



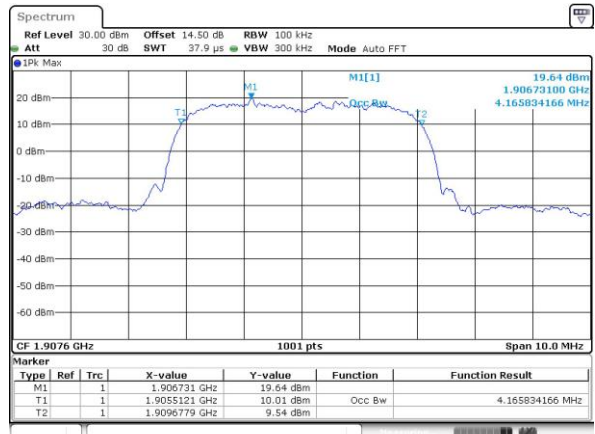
Date: 6 JUL 2018 14:01:31

Highest Channel



Date: 6 JUL 2018 17:59:14

Highest Channel

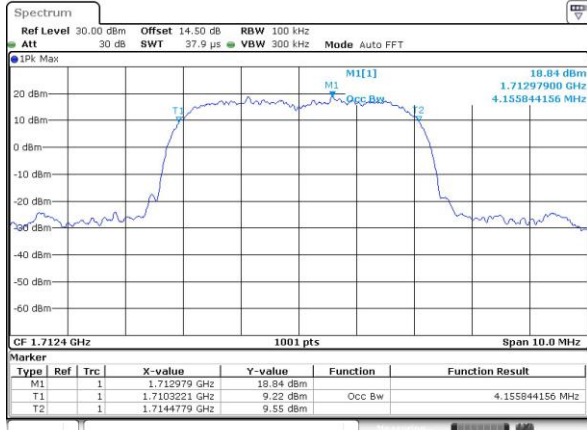


Date: 6 JUL 2018 14:02:13



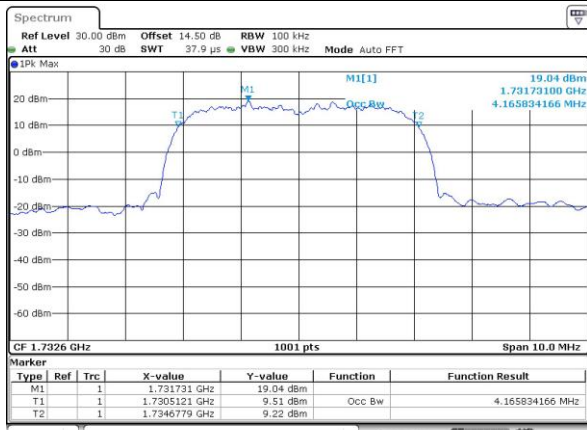
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



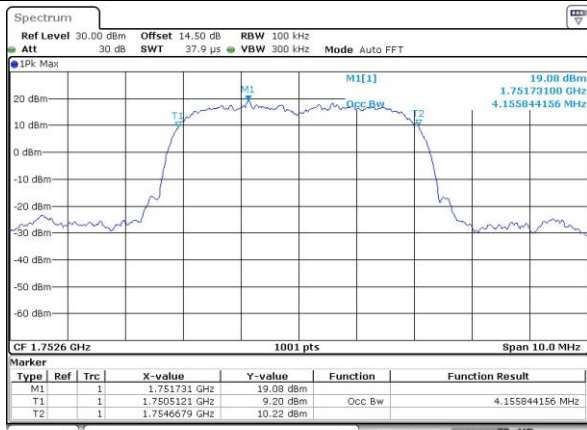
Date: 6 JUL 2018 17:26:30

Middle Channel



Date: 6 JUL 2018 17:27:02

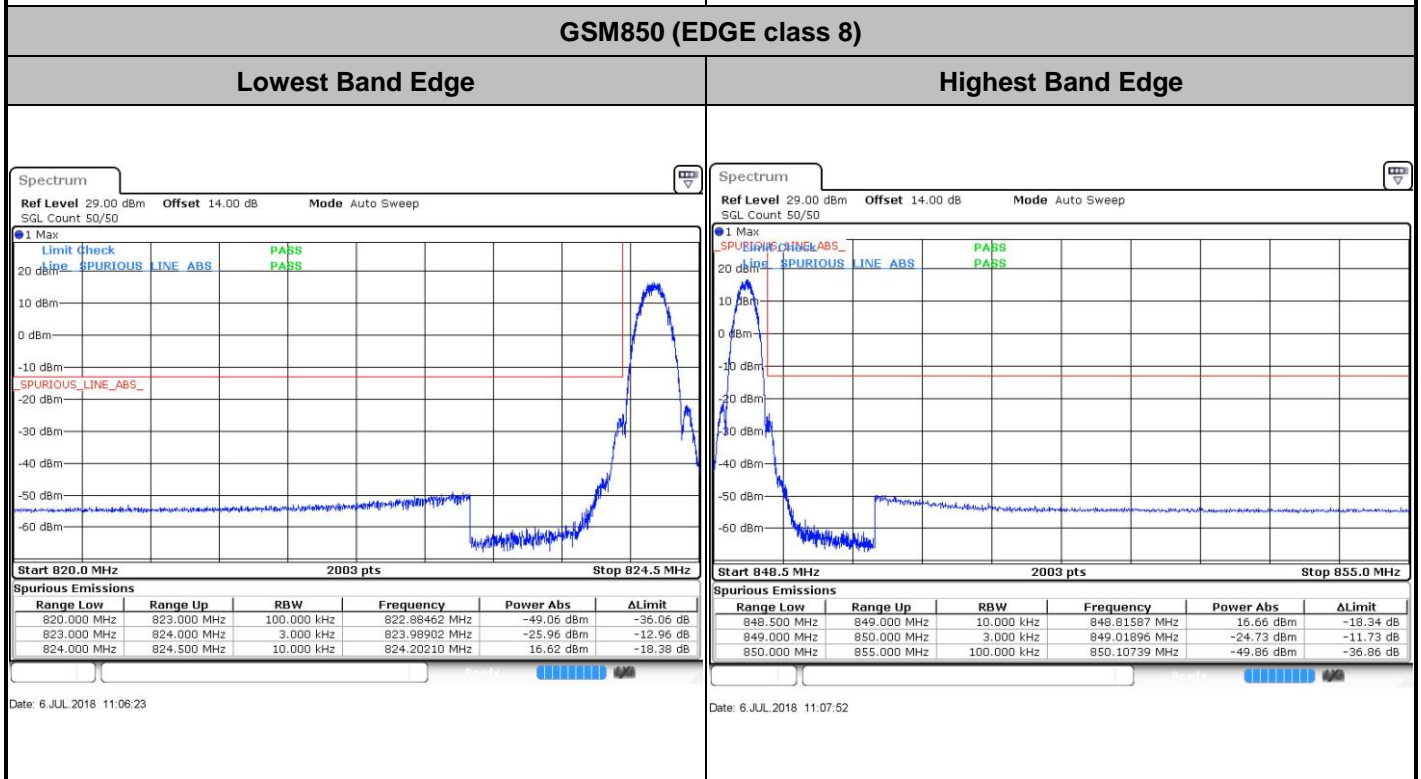
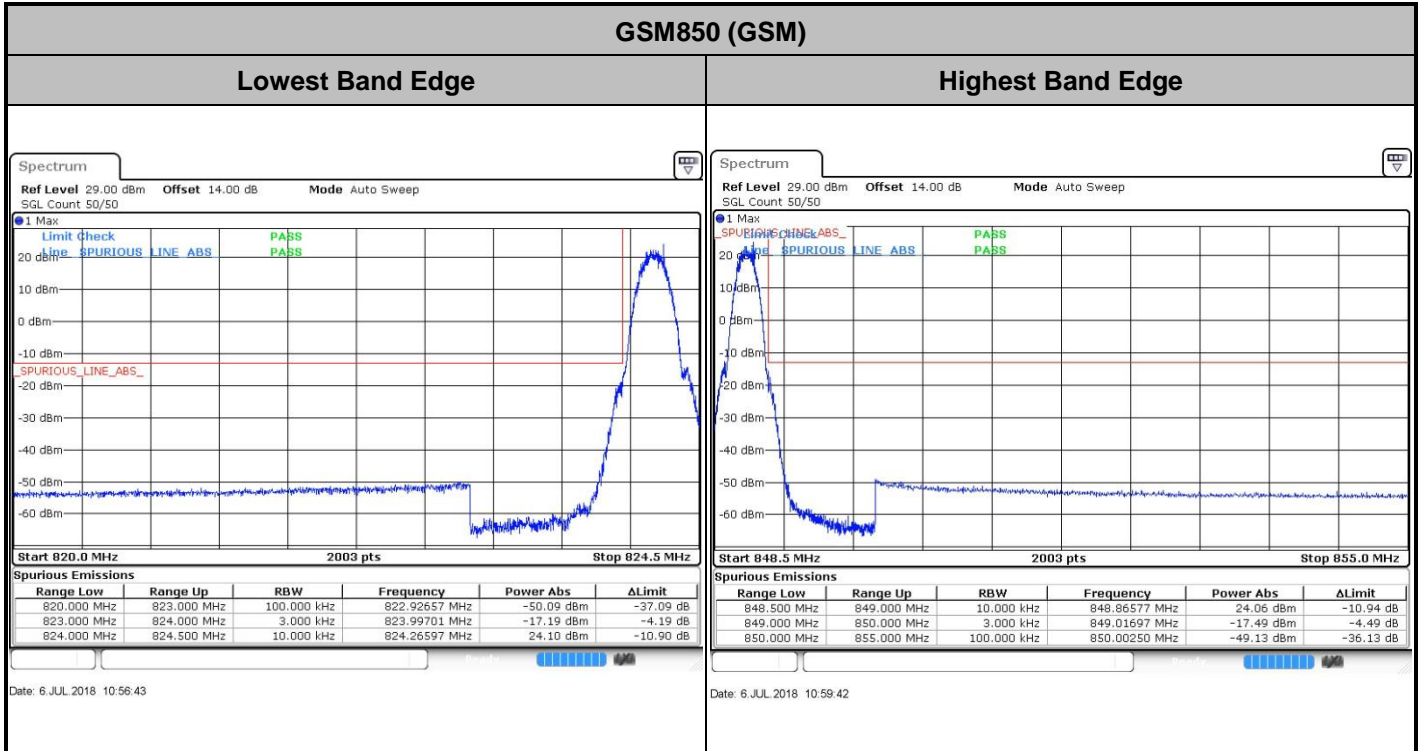
Highest Channel



Date: 6 JUL 2018 17:27:37



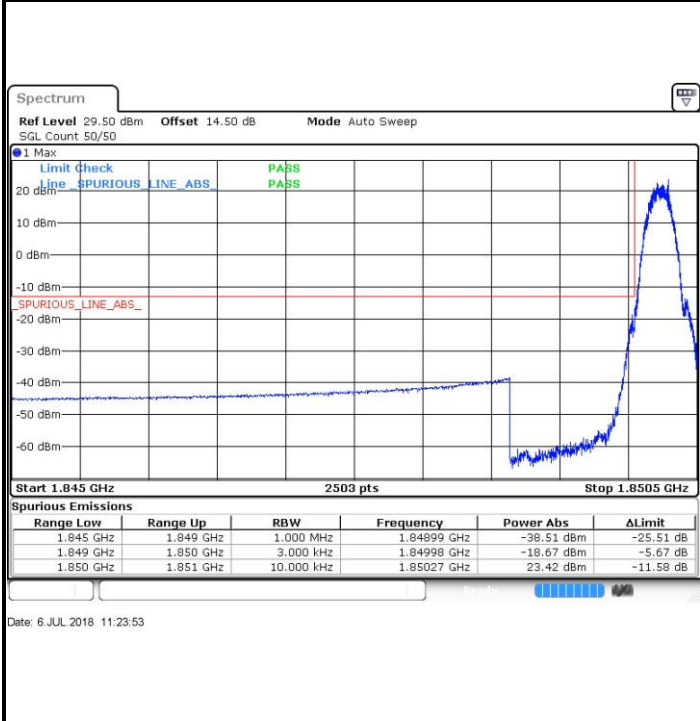
# Conducted Band Edge



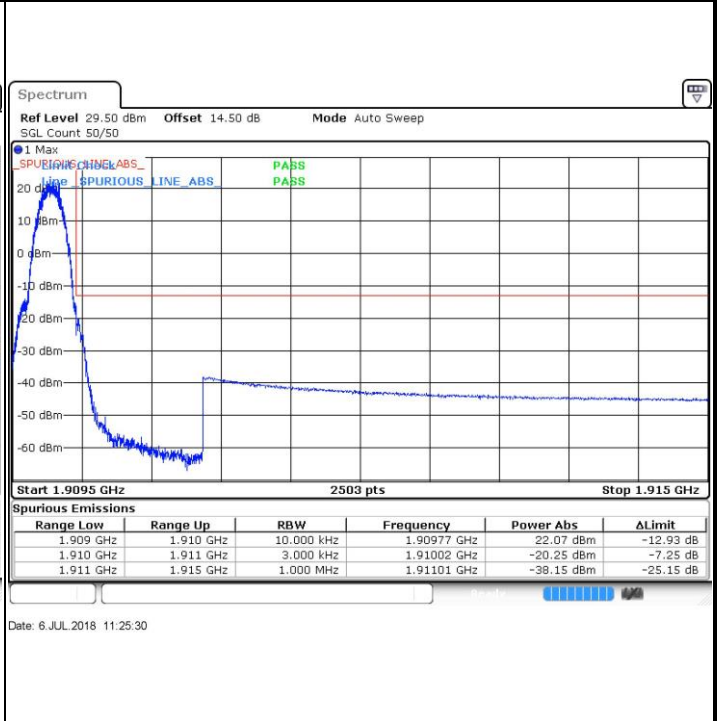


GSM1900 (GSM)

Lowest Band Edge

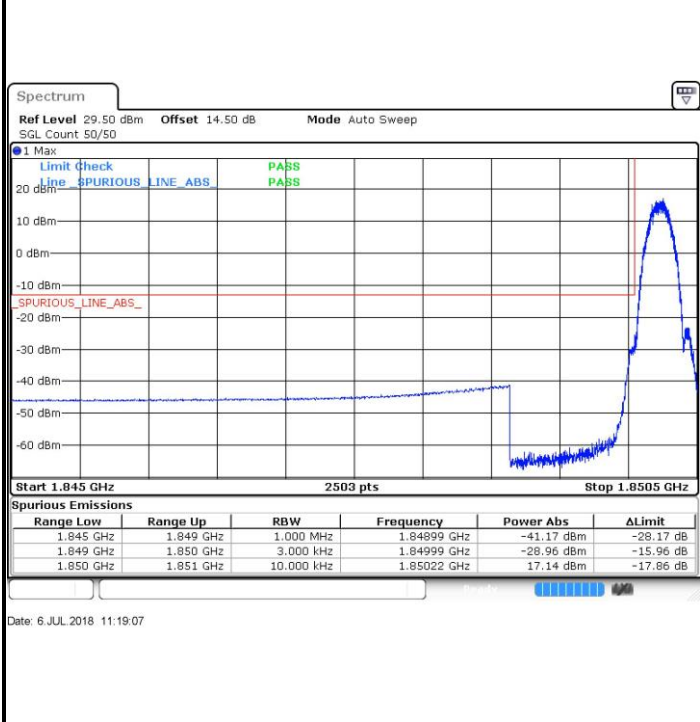


Highest Band Edge

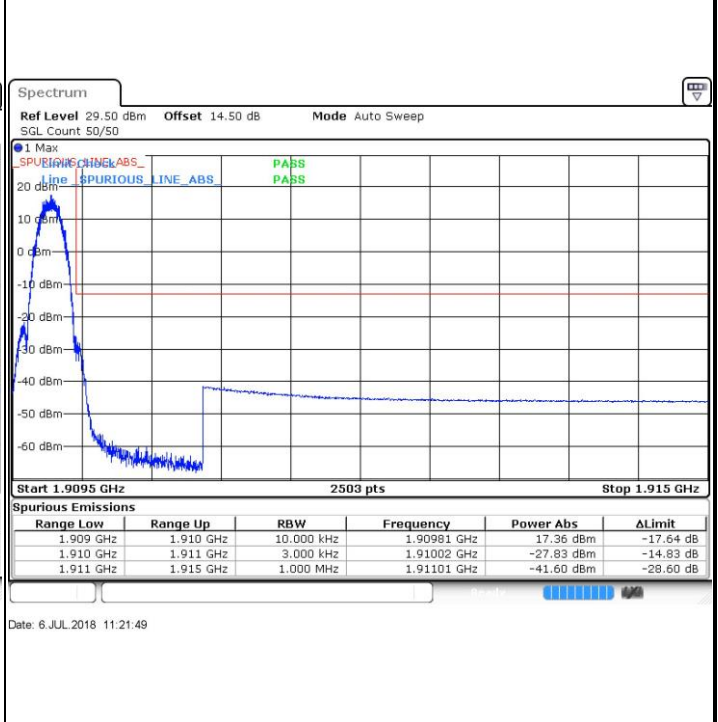


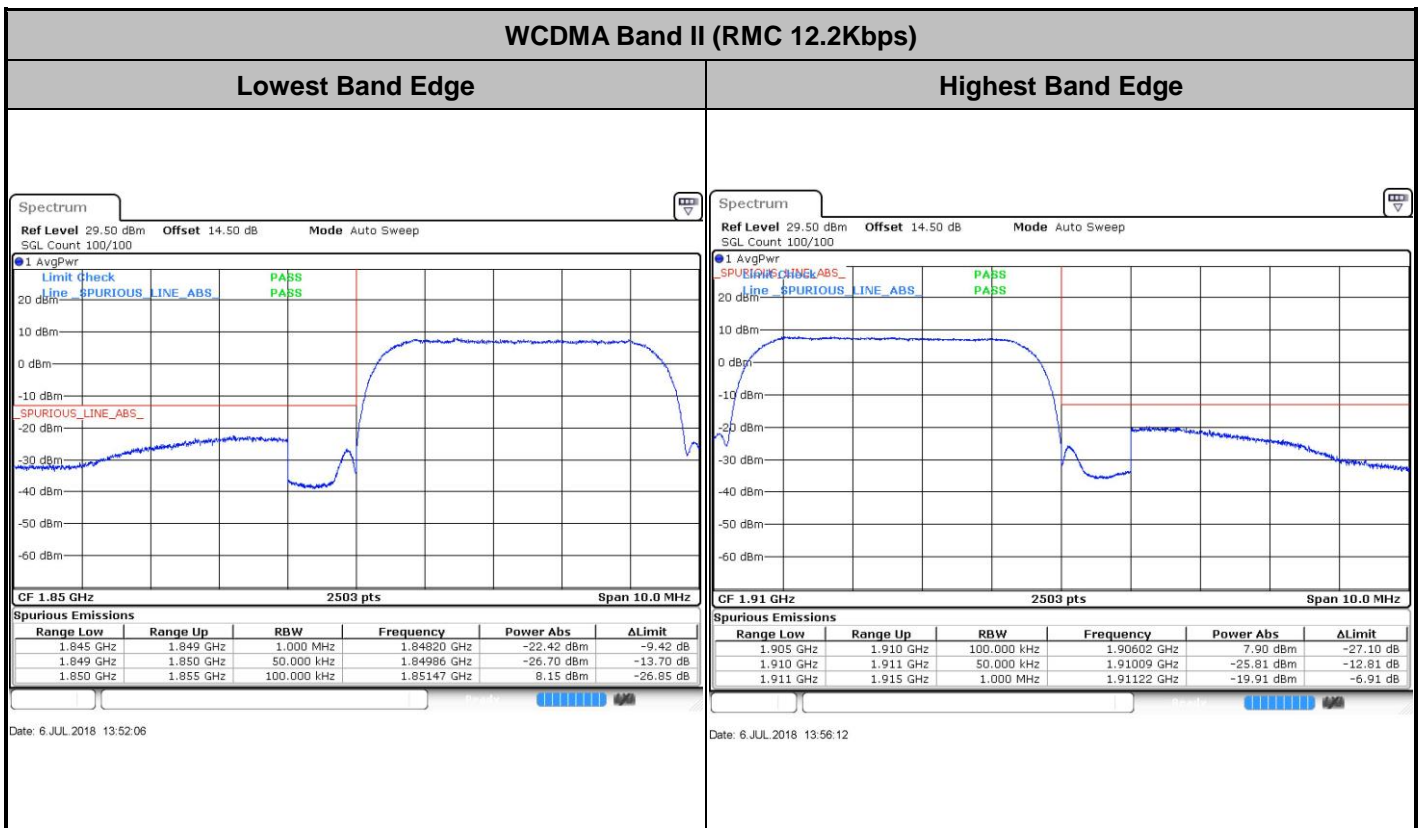
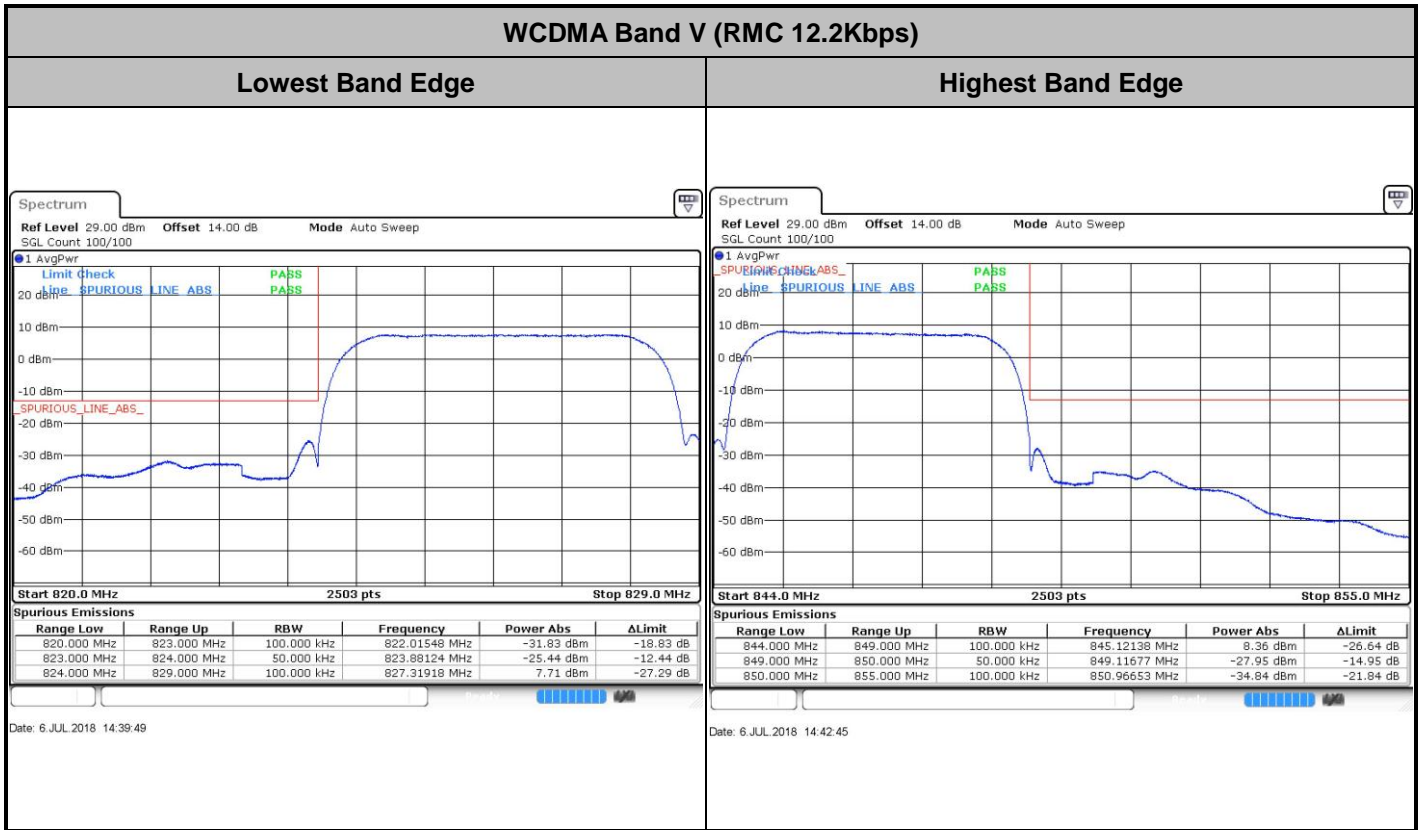
GSM1900 (EDGE class 8)

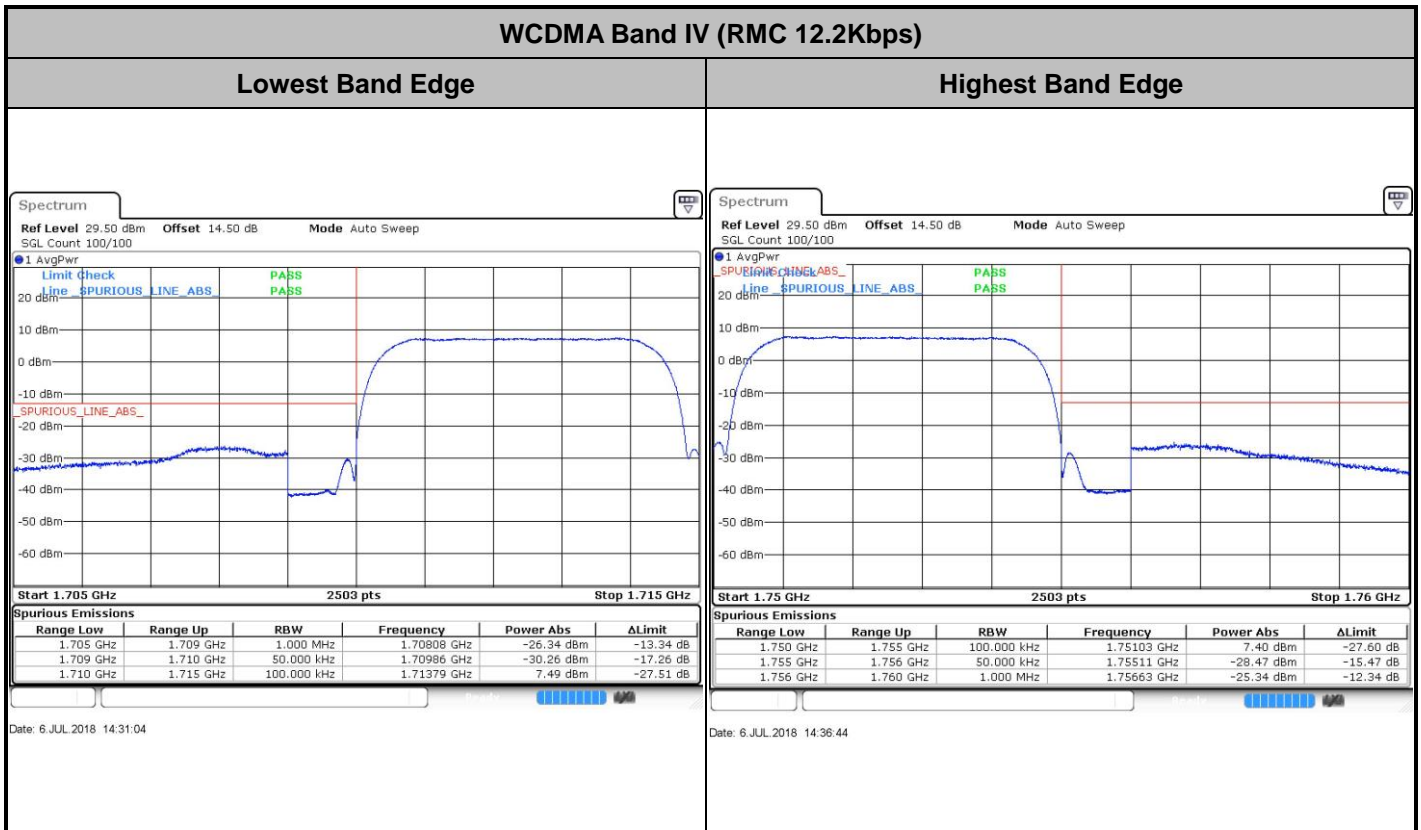
Lowest Band Edge



Highest Band Edge

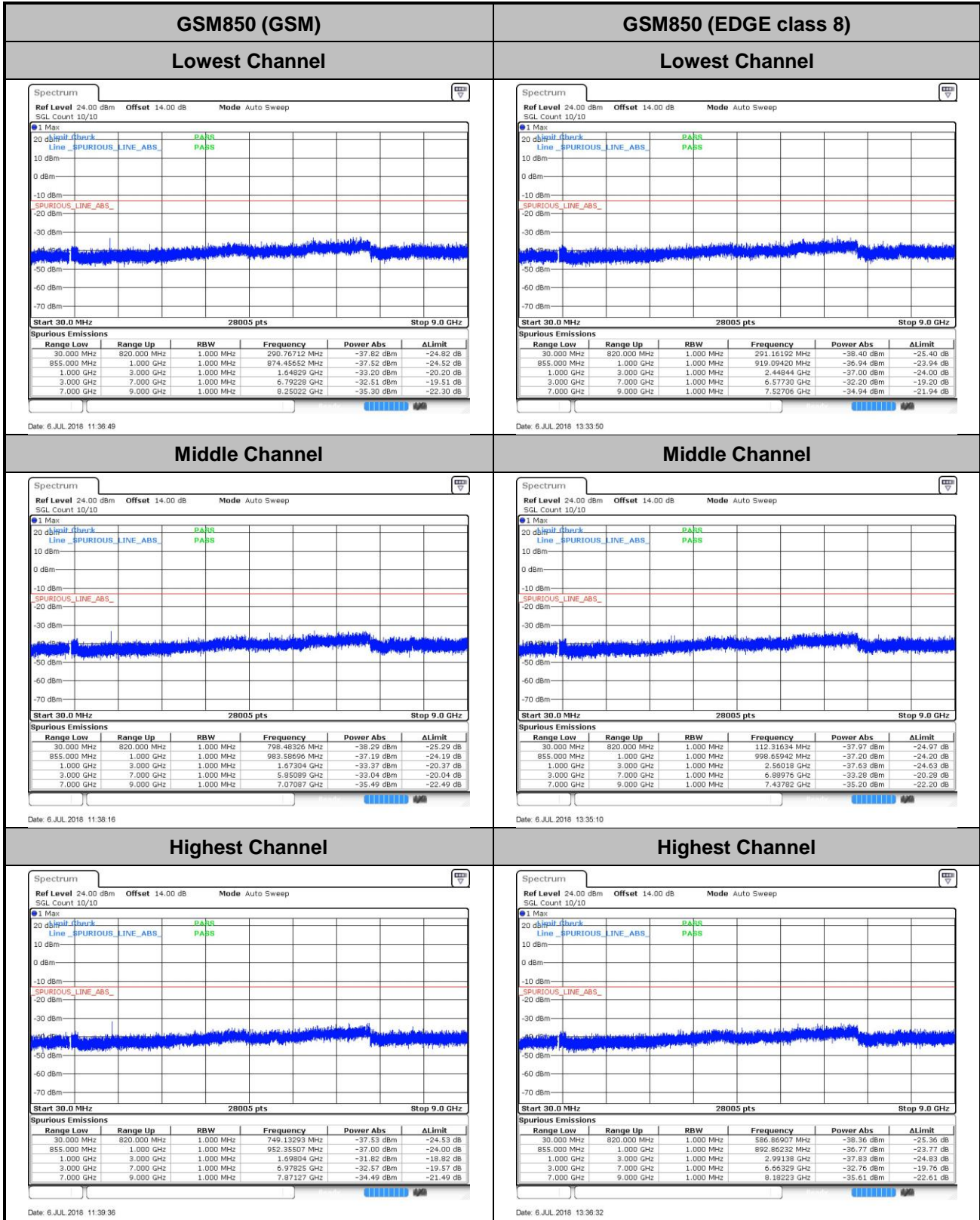




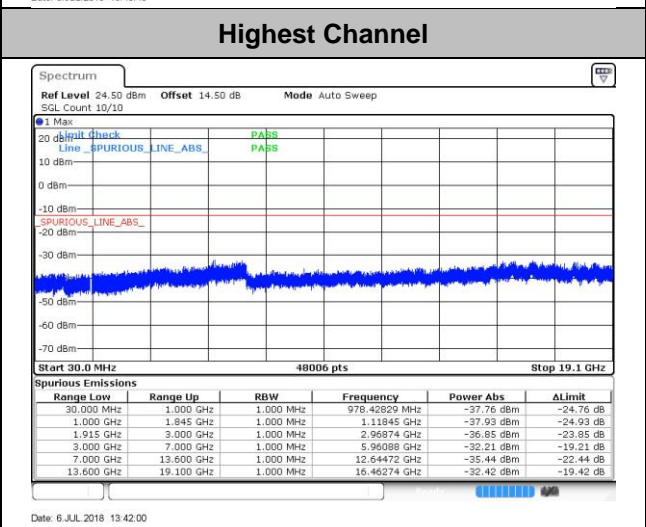
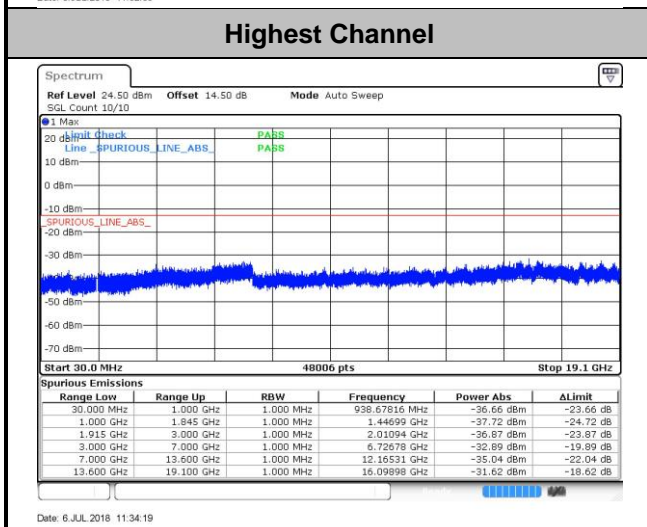
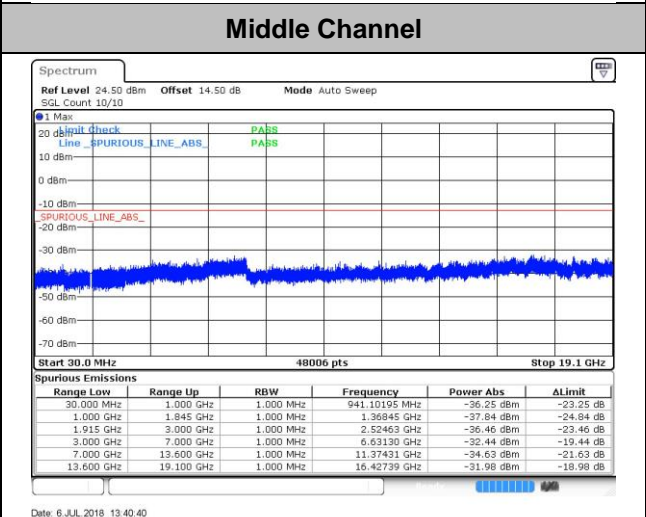
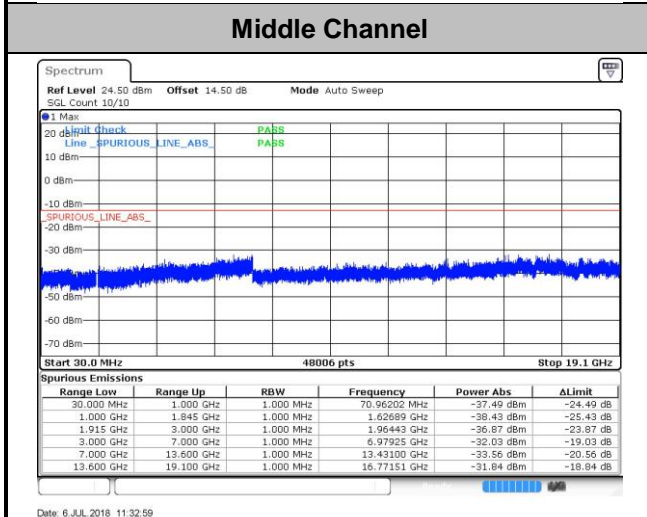
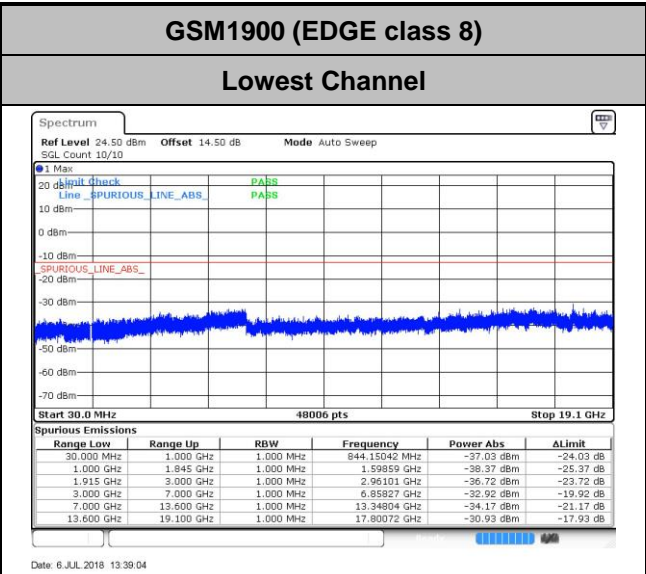
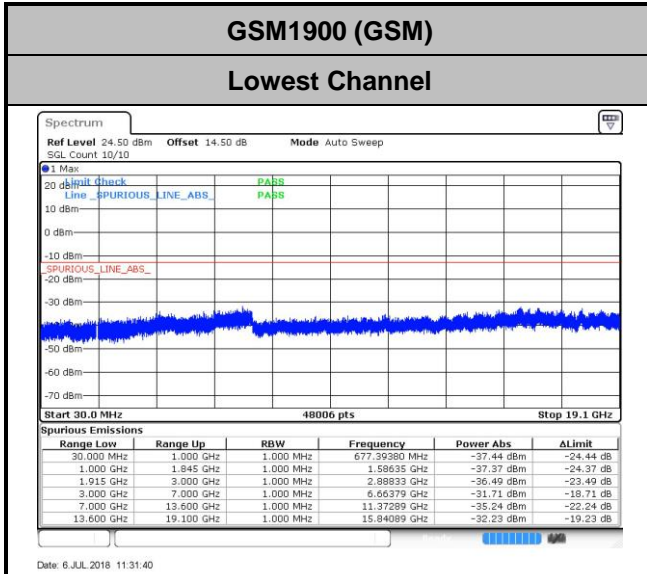




# Conducted Spurious Emission



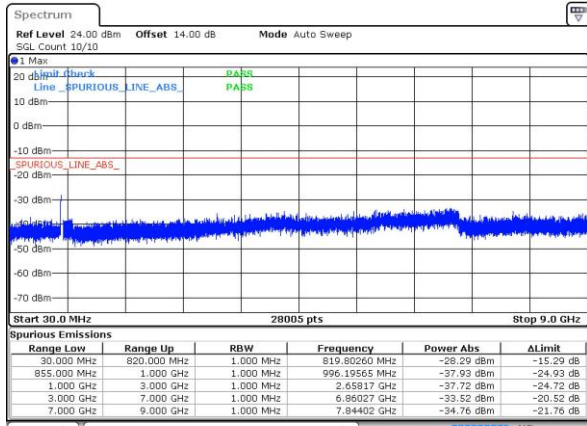






WCDMA Band V (RMC 12.2Kbps)

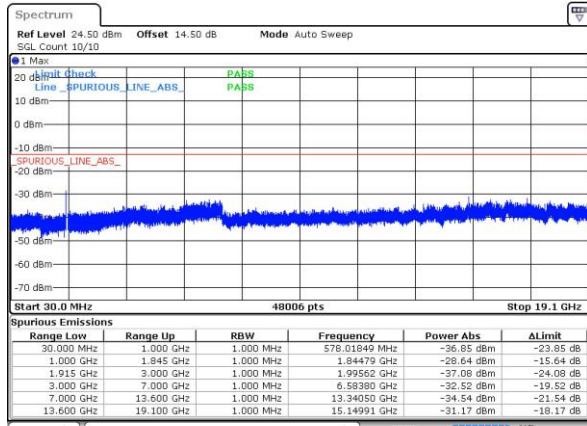
Lowest Channel



Date: 6 JUL 2018 17:47:47

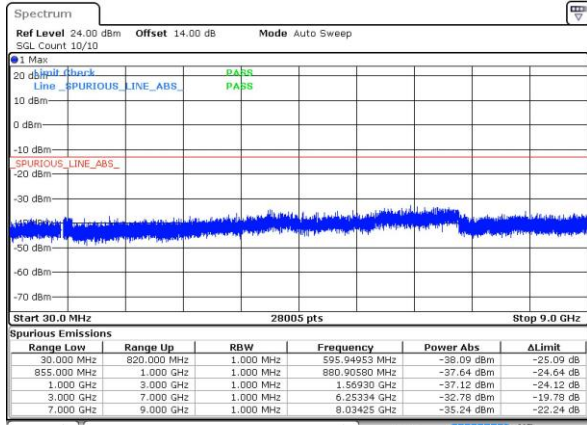
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



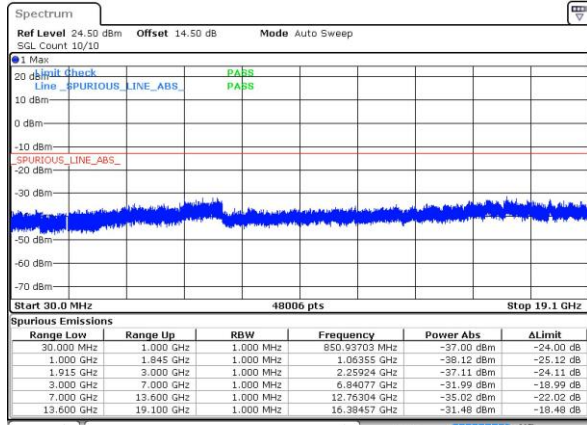
Date: 6 JUL 2018 14:03:45

Middle Channel



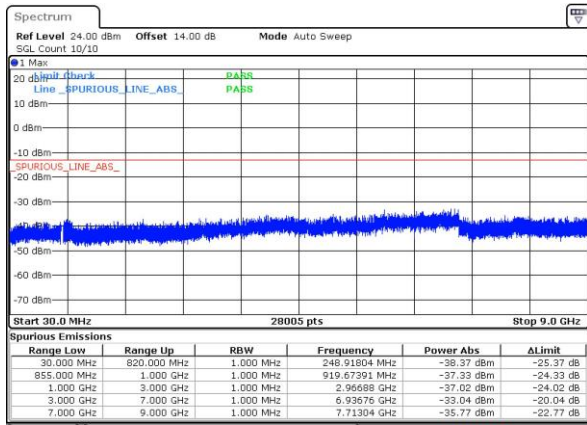
Date: 6 JUL 2018 17:49:17

Middle Channel



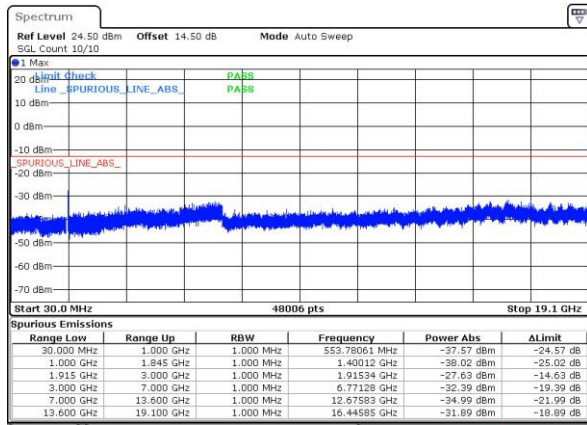
Date: 6 JUL 2018 14:05:16

Highest Channel



Date: 6 JUL 2018 17:50:41

Highest Channel

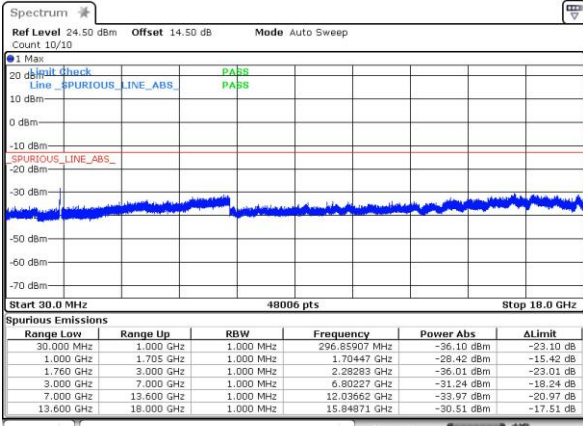


Date: 6 JUL 2018 14:11:32



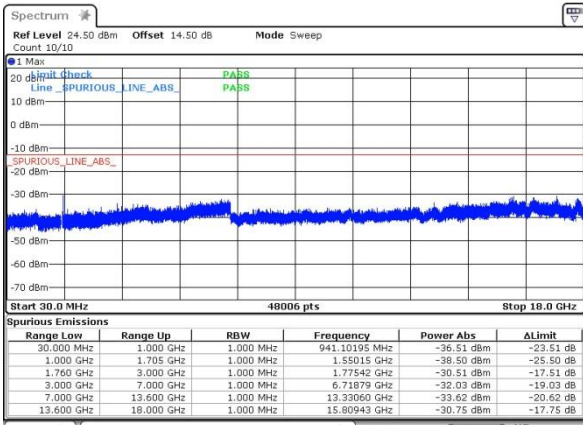
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



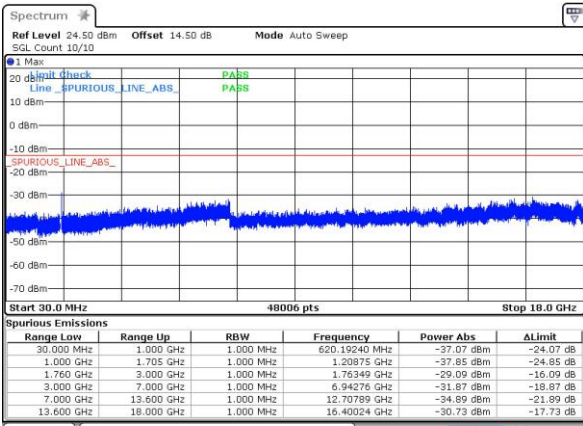
Date: 6 JUL 2018 17:52:52

Middle Channel



Date: 6 JUL 2018 17:56:43

Highest Channel



Date: 6 JUL 2018 17:55:47



**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	0.0018	0.0022	PASS
40	Normal Voltage	0.0004	0.0002	
30	Normal Voltage	0.0005	0.0001	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0010	0.0011	
0	Normal Voltage	0.0032	0.0032	
-10	Normal Voltage	0.0019	0.0007	
-20	Normal Voltage	0.0026	0.0017	
-30	Normal Voltage	0.0030	0.0001	
20	Maximum Voltage	0.0022	0.0005	
20	Normal Voltage	0.0000	0.0004	
20	Battery End Point	0.0030	0.0005	

Note: Normal Voltage = 3.85V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.4 V

Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0015	0.0004	PASS
40	Normal Voltage	0.0002	0.0002	
30	Normal Voltage	0.0008	0.0012	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0002	0.0007	
0	Normal Voltage	0.0012	0.0009	
-10	Normal Voltage	0.0006	0.0003	
-20	Normal Voltage	0.0001	0.0005	
-30	Normal Voltage	0.0002	0.0009	
20	Maximum Voltage	0.0001	0.0003	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0012	0.0004	

**Note:**

1. Normal Voltage = 3.85V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.4 V
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 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0002	PASS
40	Normal Voltage	0.0038	
30	Normal Voltage	0.0025	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0026	
0	Normal Voltage	0.0017	
-10	Normal Voltage	0.0017	
-20	Normal Voltage	0.0036	
-30	Normal Voltage	0.0016	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0024	

Note: Normal Voltage = 3.85V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.4 V

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0009	PASS
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0007	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0010	

Note:

1. Normal Voltage = 3.85V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.4 V
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	0.0008	PASS
40	Normal Voltage	0.0010	
30	Normal Voltage	0.0032	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0024	
0	Normal Voltage	0.0000	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0000	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0033	

**Note:**

1. Normal Voltage = 3.85V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.4 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



## Appendix B. Test Results of Conducted Test

### Radiated Spurious Emission

GSM850 (GSM)									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672.8	-70.21	-13	-57.21	-71.92	-74.58	2.88	9.40	H
	2509.2	-65.88	-13	-52.88	-71.94	-71.83	2.50	10.60	H
	3345.6	-67.43	-13	-54.43	-75.43	-73.25	4.63	12.60	H
	1672.8	-69.06	-13	-56.06	-70.90	-73.43	2.88	9.40	V
	2509.2	-59.16	-13	-46.16	-65.11	-65.11	2.50	10.60	V
	3345.6	-67.91	-13	-54.91	-75.94	-73.73	4.63	12.60	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 )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672.8	-69.04	-13	-56.04	-70.75	-73.41	2.88	9.40	H
	2509.2	-64.96	-13	-51.96	-71.02	-70.91	2.50	10.60	H
	3345.6	-68.57	-13	-55.57	-76.57	-74.39	4.63	12.60	H
	1672.8	-69.61	-13	-56.61	-71.45	-73.98	2.88	9.40	V
	2509.2	-61.69	-13	-48.69	-67.64	-67.64	2.50	10.60	V
	3345.6	-68.91	-13	-55.91	-76.94	-74.73	4.63	12.60	V

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



GSM1900 (GSM)									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3760.00	-52.94	-13	-39.94	-66.56	-60.54	5.00	12.60	H
	5640.00	-54.51	-13	-41.51	-71.11	-60.31	7.30	13.10	H
	7520.00	-58.88	-13	-45.88	-78.86	-62.45	7.73	11.30	H
	3760.00	-49.78	-13	-36.78	-64.11	-57.38	5.00	12.60	V
	5640.00	-54.40	-13	-41.40	-70.93	-60.20	7.30	13.10	V
	7520.00	-59.32	-13	-46.32	-78.96	-62.89	7.73	11.30	V

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

GSM1900 (EDGE class 8)									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3760.00	-52.76	-13	-39.76	-66.38	-60.36	5.00	12.60	H
	5640.00	-55.29	-13	-42.29	-71.89	-61.09	7.30	13.10	H
	7520.00	-58.97	-13	-45.97	-78.95	-62.54	7.73	11.30	H
	3760.00	-51.76	-13	-38.76	-66.09	-59.36	5.00	12.60	V
	5640.00	-52.94	-13	-39.94	-69.47	-58.74	7.30	13.10	V
	7520.00	-59.30	-13	-46.30	-78.94	-62.87	7.73	11.30	V

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





WCDMA Band V(RMC 12.2Kbps) for Adapter									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672.8	-73.53	-13	-60.53	-75.24	-77.90	2.88	9.40	H
	2509.2	-71.00	-13	-58.00	-77.06	-76.95	2.50	10.60	H
	3345.6	-69.42	-13	-56.42	-77.42	-75.24	4.63	12.60	H
	1672.8	-70.52	-13	-57.52	-72.36	-74.89	2.88	9.40	V
	2509.2	-70.84	-13	-57.84	-76.79	-76.79	2.50	10.60	V
	3345.6	-69.42	-13	-56.42	-77.45	-75.24	4.63	12.60	V

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

WCDMA Band II(RMC 12.2Kbps)									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3760.00	-60.47	-13	-47.47	-74.09	-68.07	5.00	12.60	H
	5640.00	-62.06	-13	-49.06	-78.66	-67.86	7.30	13.10	H
	7520.00	-58.75	-13	-45.75	-78.73	-62.32	7.73	11.30	H
	3760.00	-58.73	-13	-45.73	-73.06	-66.33	5.00	12.60	V
	5640.00	-61.82	-13	-48.82	-78.35	-67.62	7.30	13.10	V
	7520.00	-59.35	-13	-46.35	-78.99	-62.92	7.73	11.30	V

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

WCDMA Band IV(RMC 12.2Kbps)									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3465.2	-63.00	-13	-50.00	-76.70	-70.97	4.63	12.60	H
	5197.8	-60.14	-13	-47.14	-78.07	-66.59	6.25	12.70	H
	6930.4	-59.70	-13	-46.70	-79.32	-64.47	8.23	13.00	H
	3465.2	-65.13	-13	-52.13	-76.54	-73.10	4.63	12.60	V
	5197.8	-65.43	-13	-52.43	-79.04	-71.88	6.25	12.70	V
	6930.4	-60.29	-13	-47.29	-79.41	-65.06	8.23	13.00	V

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