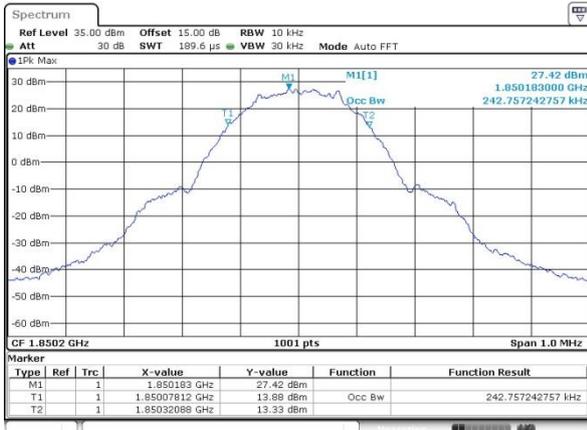




GSM1900 (GSM)

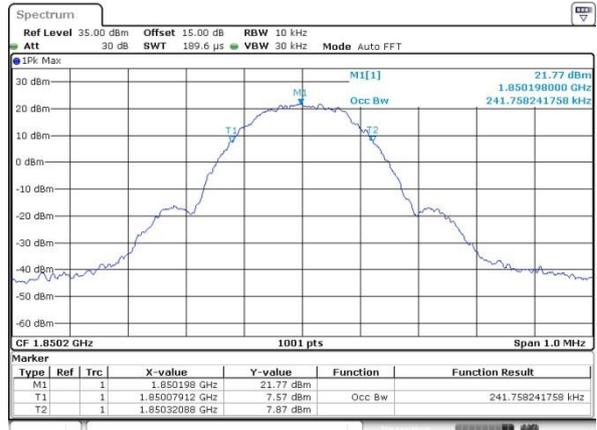
Lowest Channel



Date: 2 MAR 2018 00:11:45

GSM1900 (EDGE class 8)

Lowest Channel



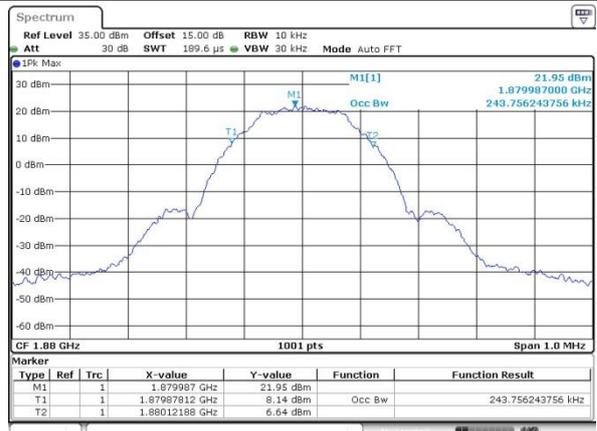
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Middle Channel



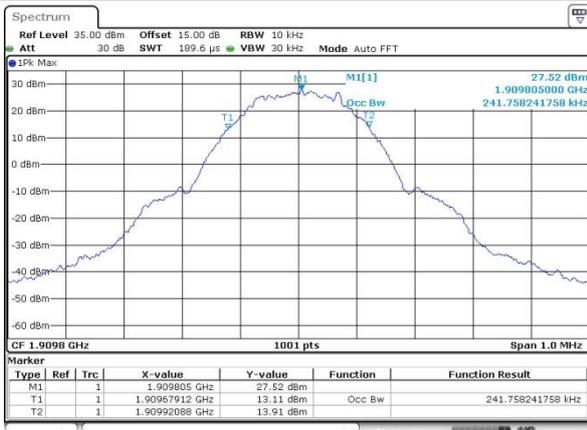
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Middle Channel



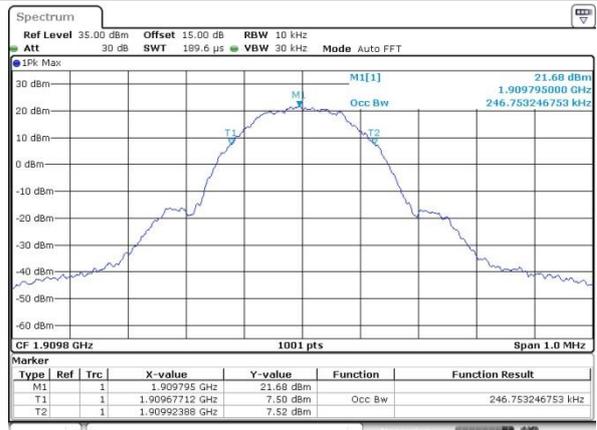
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Highest Channel

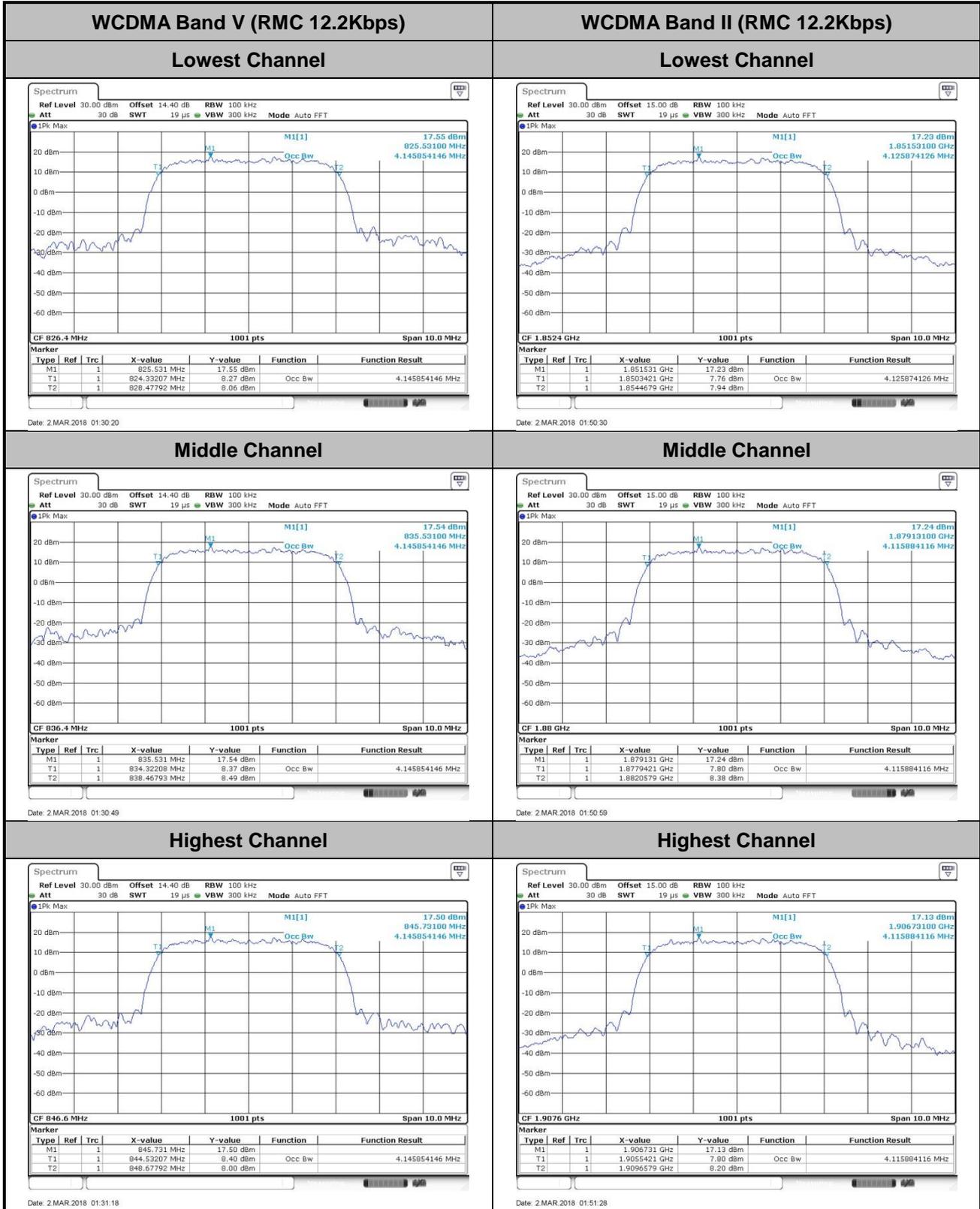


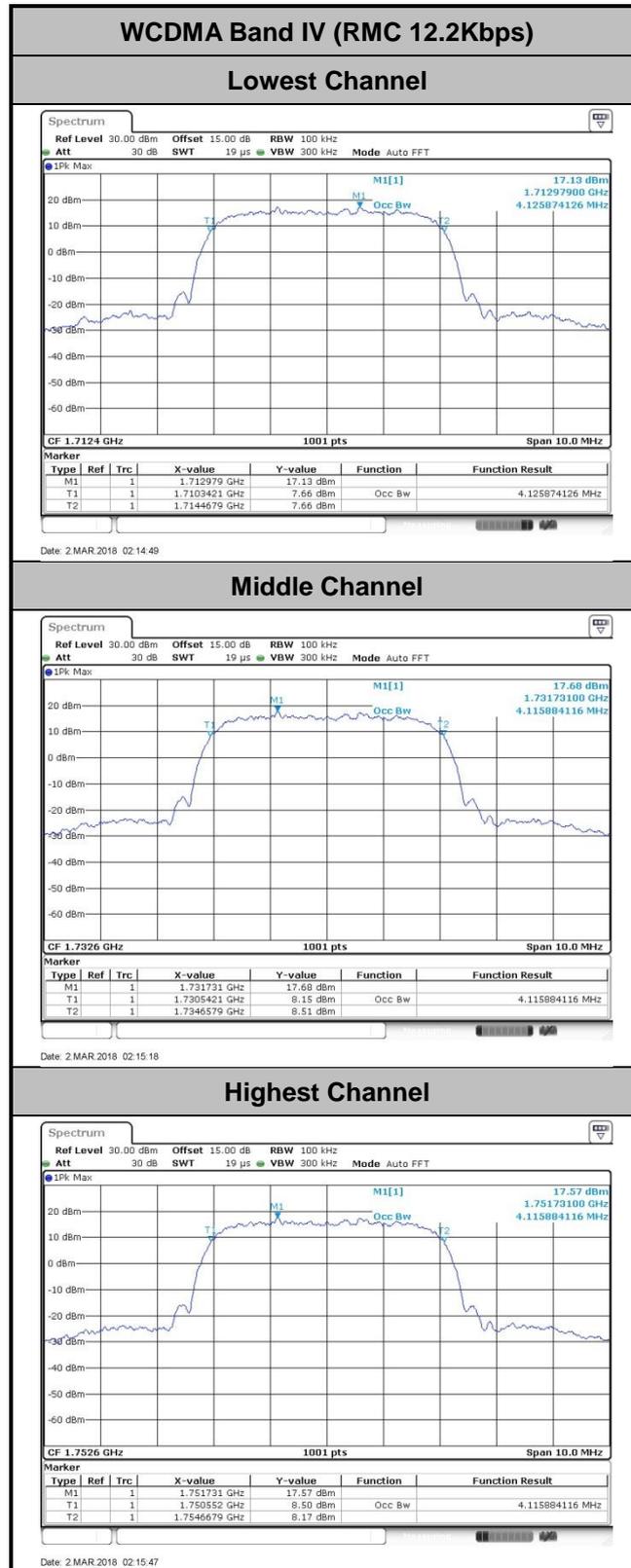
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Highest Channel



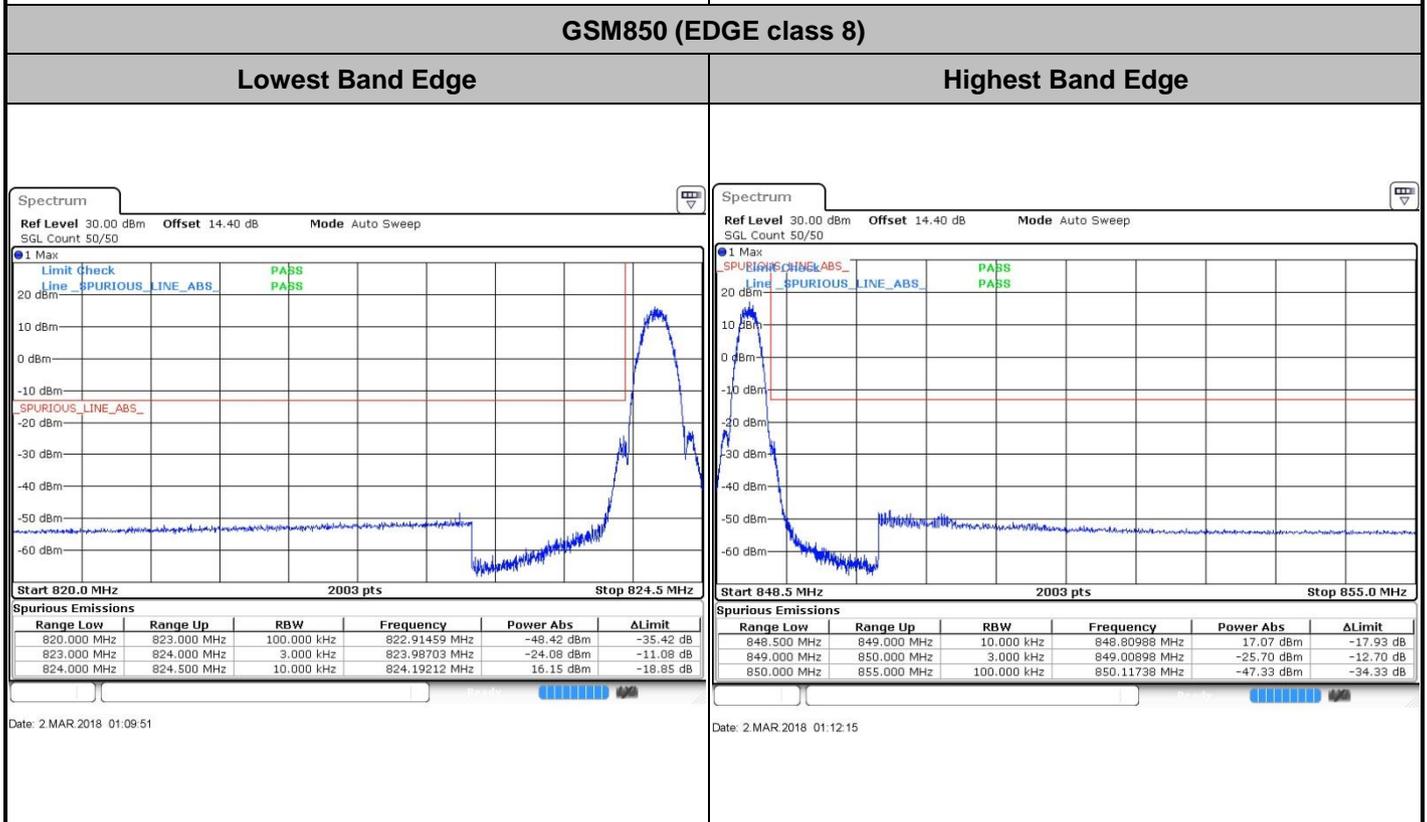
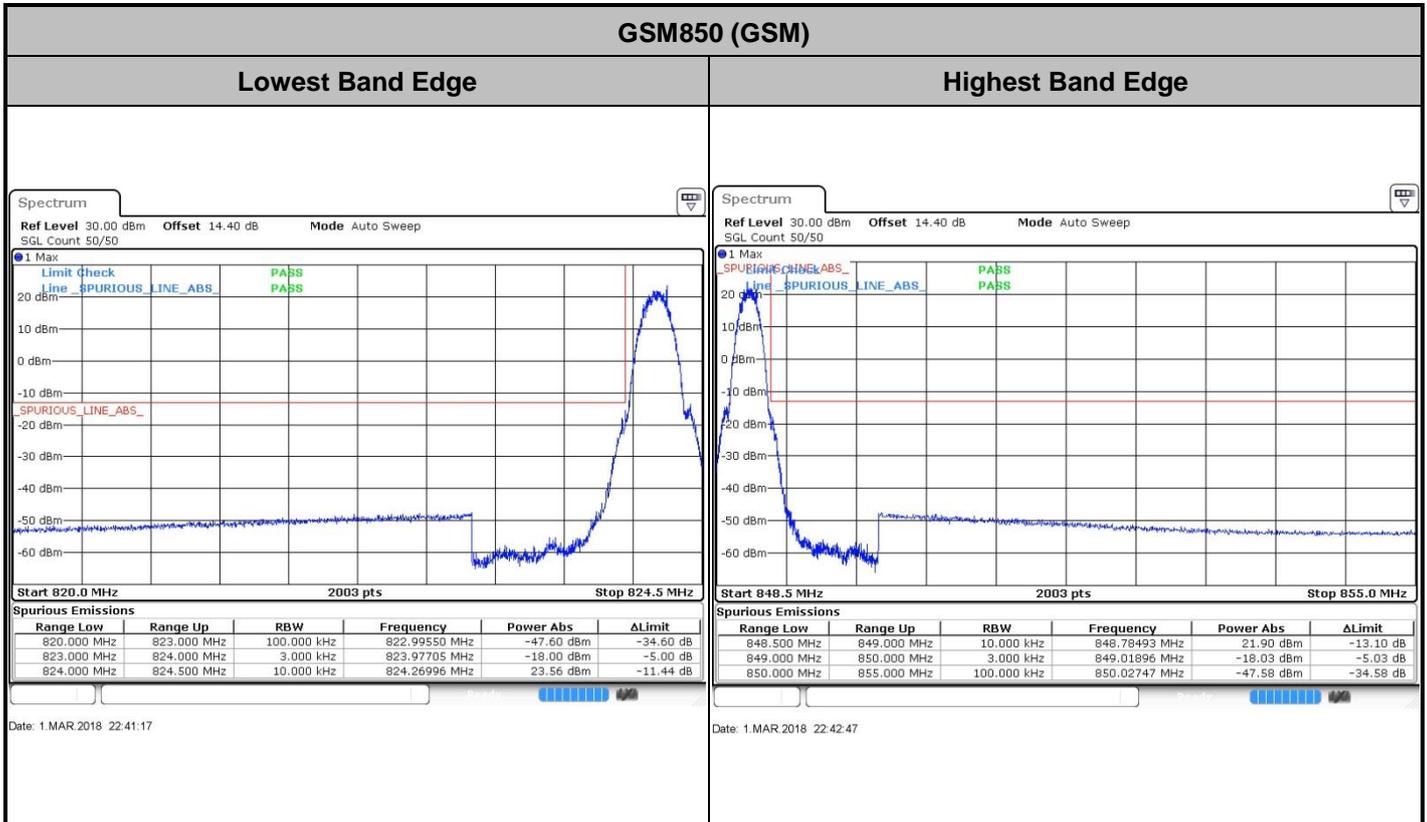
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# Conducted Band Edge

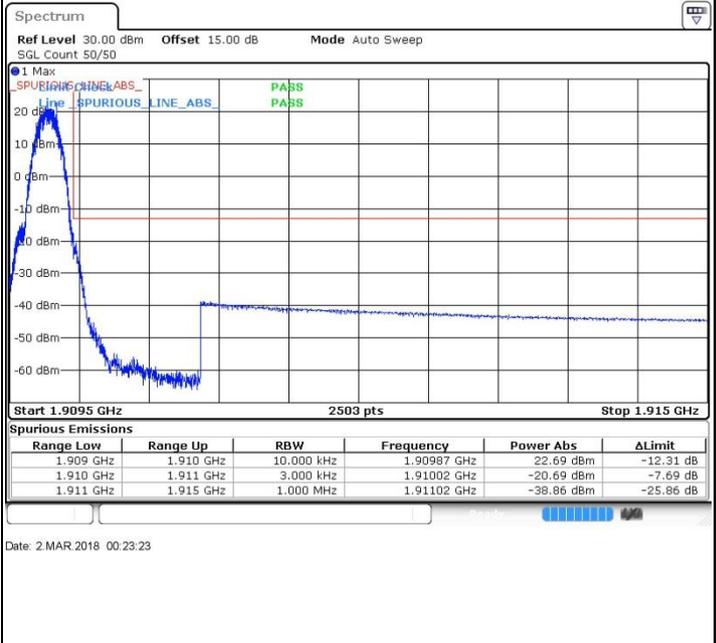
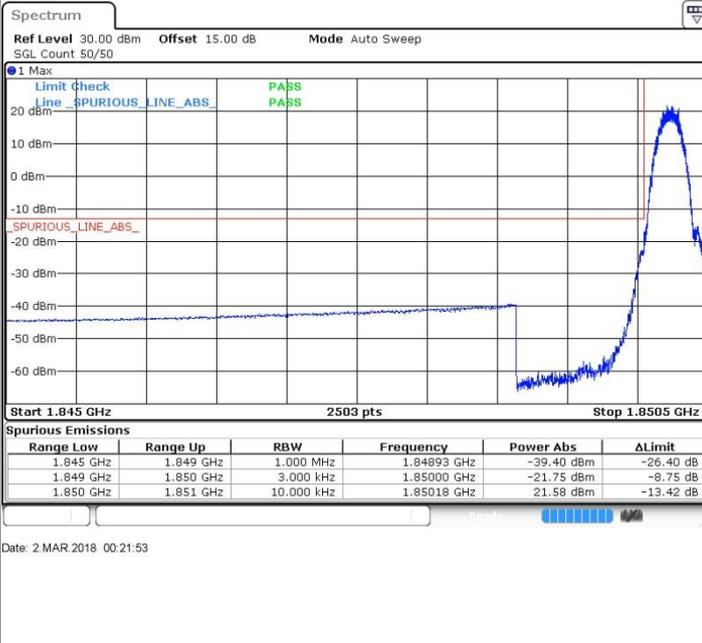




GSM1900 (GSM)

Lowest Band Edge

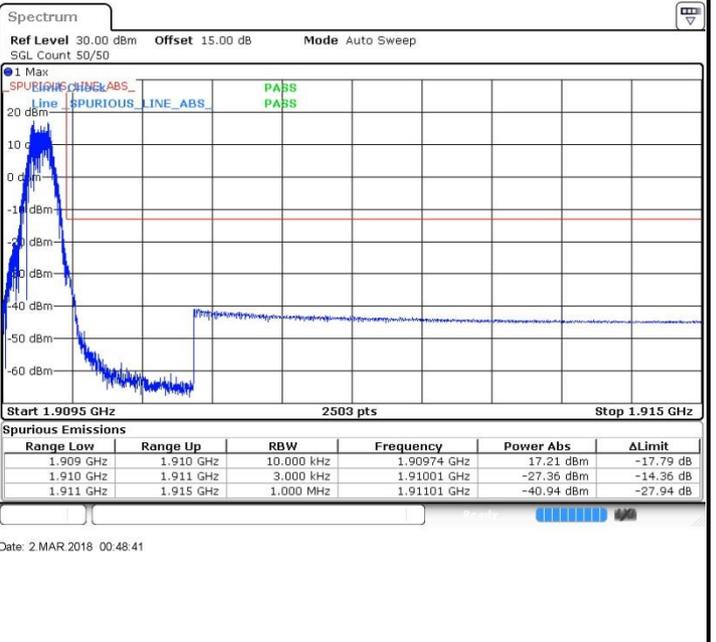
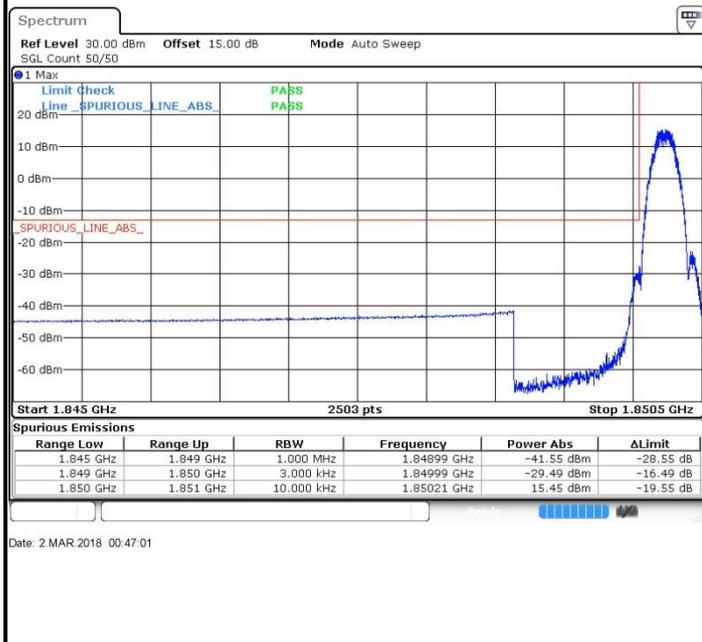
Highest Band Edge

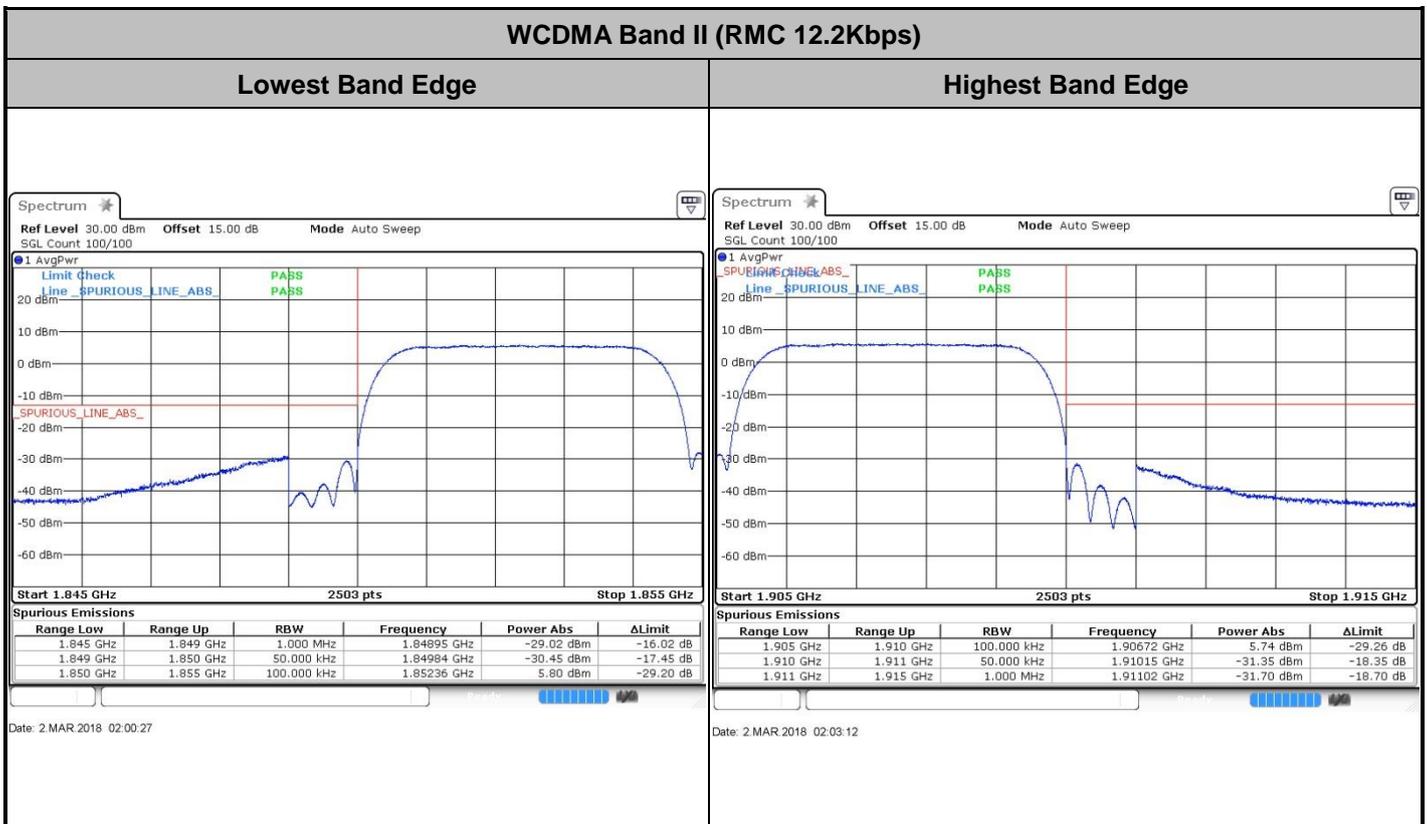
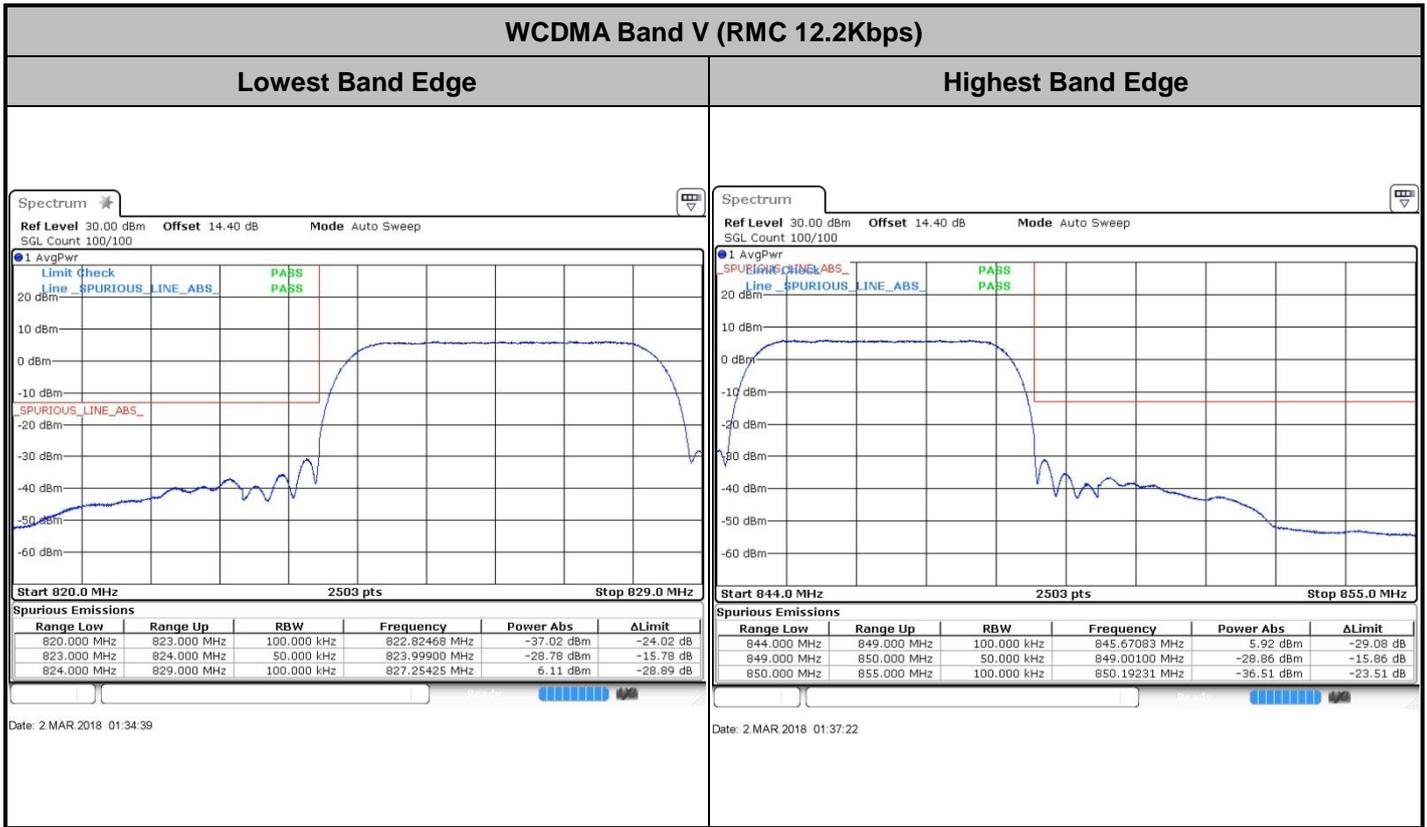


GSM1900 (EDGE class 8)

Lowest Band Edge

Highest Band Edge







WCDMA Band IV (RMC 12.2Kbps)

Lowest Band Edge

Highest Band Edge



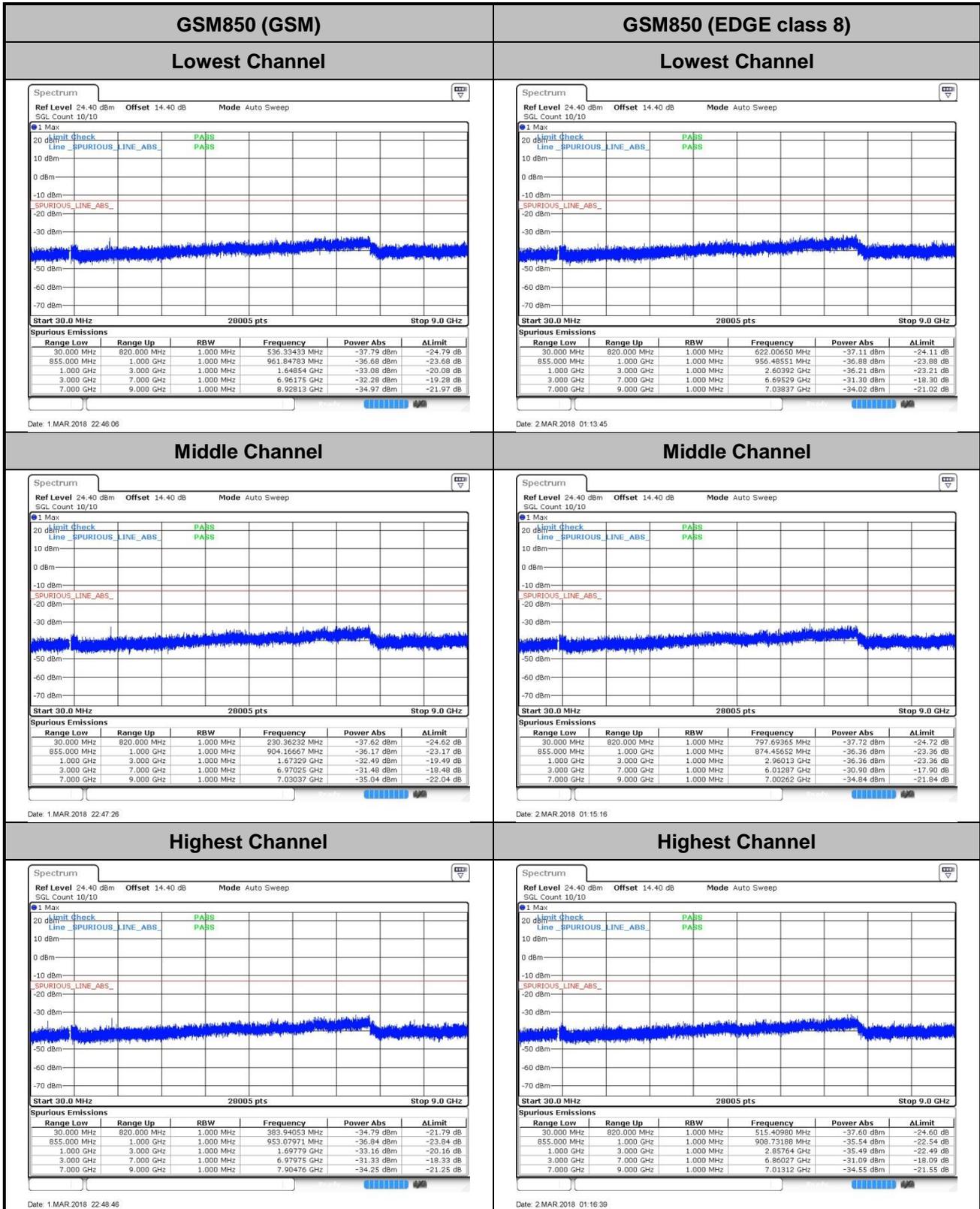
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Date: 2 MAR 2018 02:21:41



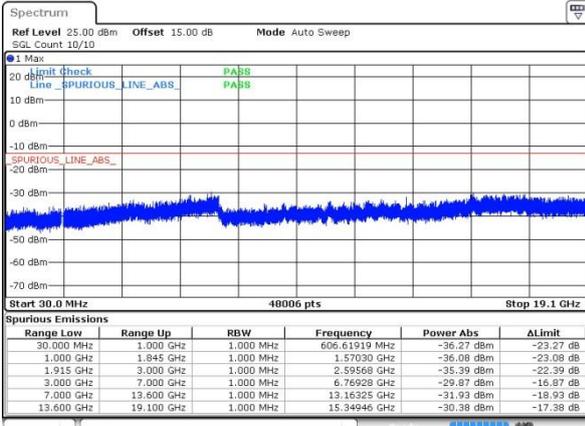
# Conducted Spurious Emission





GSM1900 (GSM)

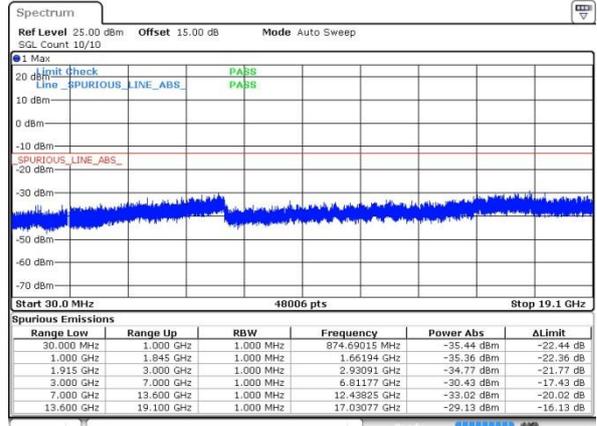
Lowest Channel



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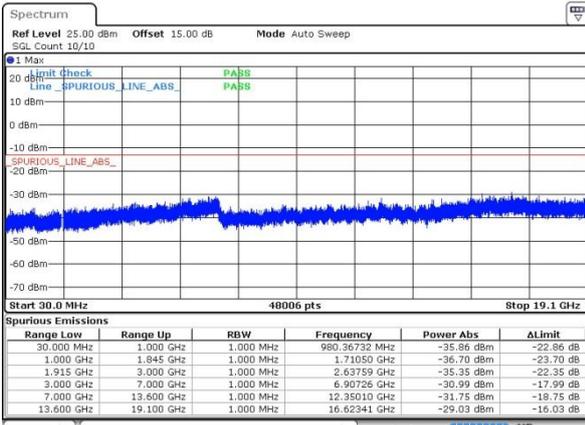
GSM1900 (EDGE class 8)

Lowest Channel



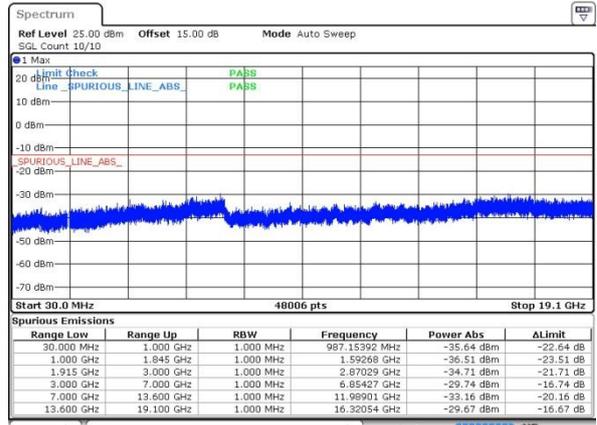
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Middle Channel



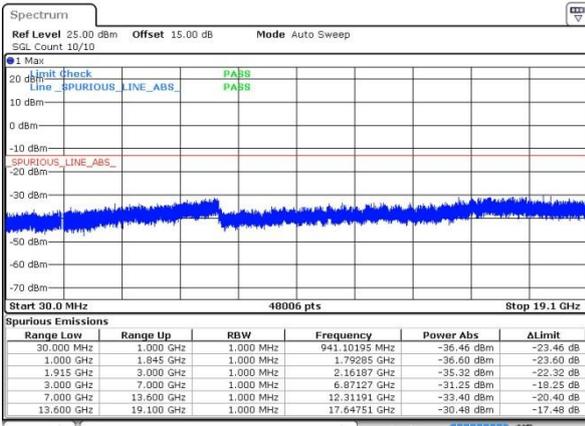
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Middle Channel



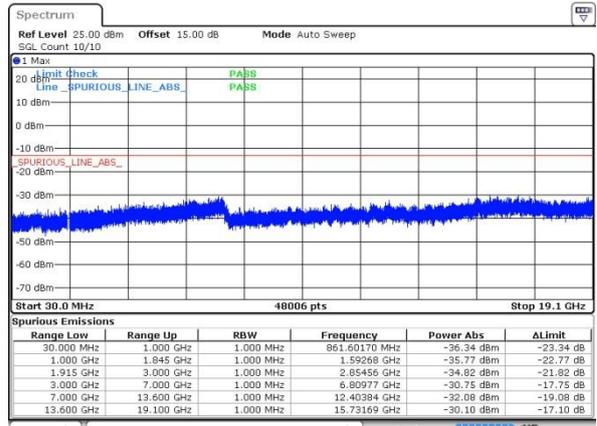
Date: 2 MAR 2018 00:52:14

Highest Channel



Date: 2 MAR 2018 00:27:49

Highest Channel

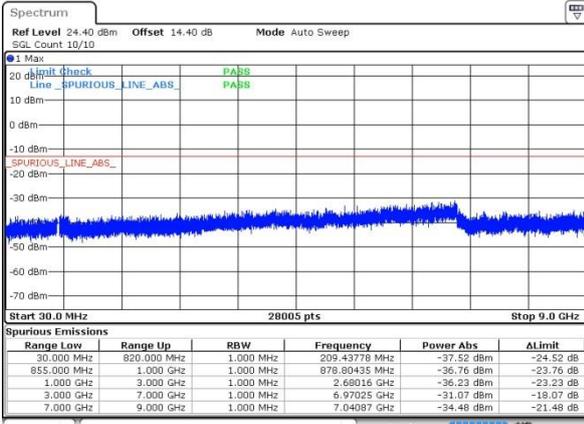


Date: 2 MAR 2018 00:53:40



WCDMA Band V (RMC 12.2Kbps)

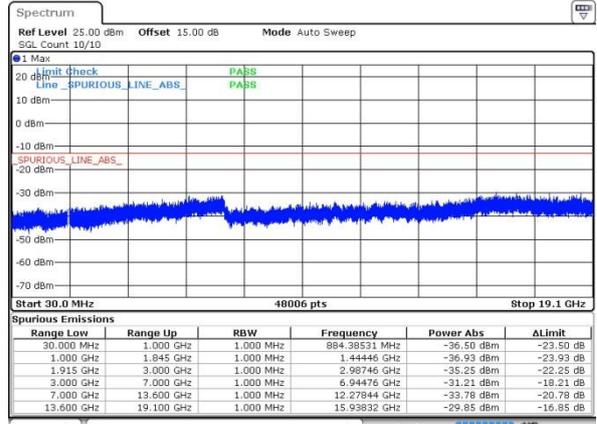
Lowest Channel



Date: 2 MAR 2018 01:39:52

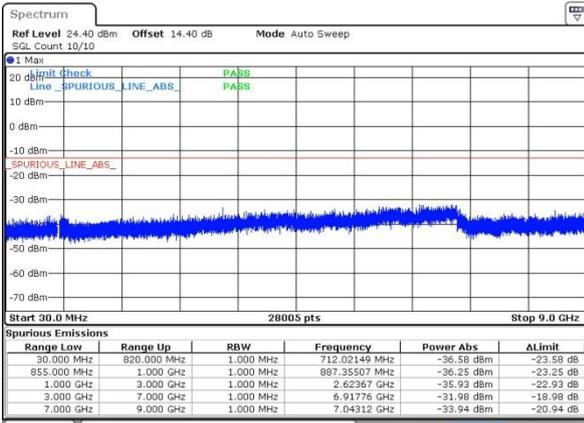
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



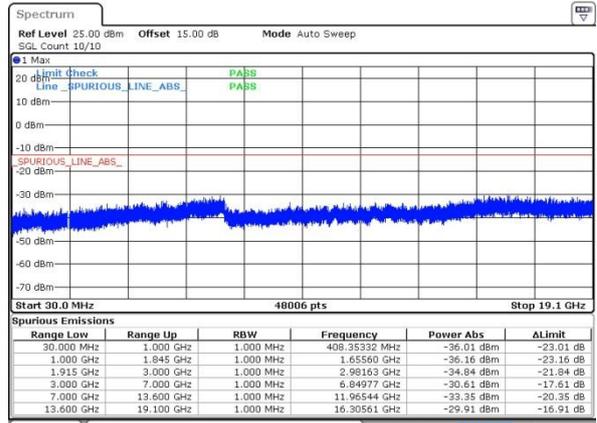
Date: 2 MAR 2018 02:05:50

Middle Channel



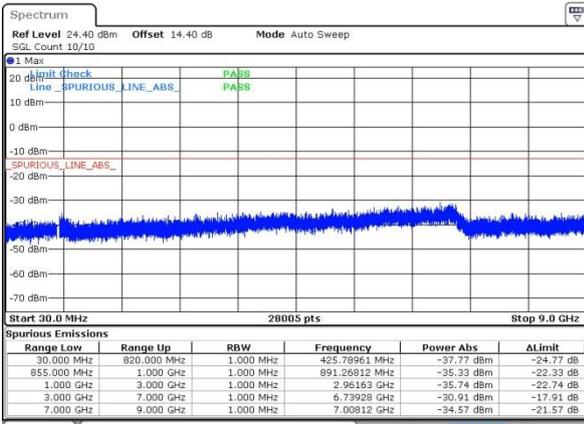
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Middle Channel



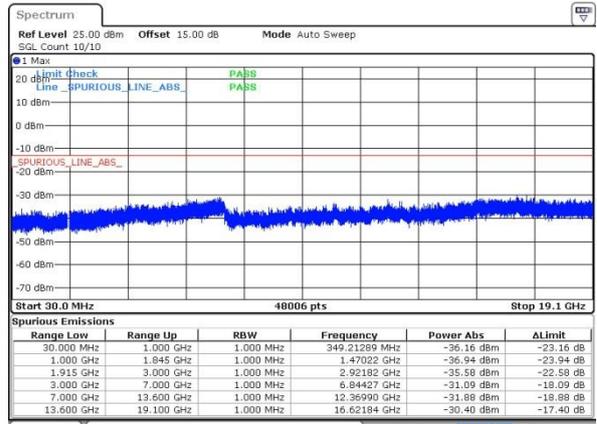
Date: 2 MAR 2018 02:07:10

Highest Channel



Date: 2 MAR 2018 01:42:33

Highest Channel

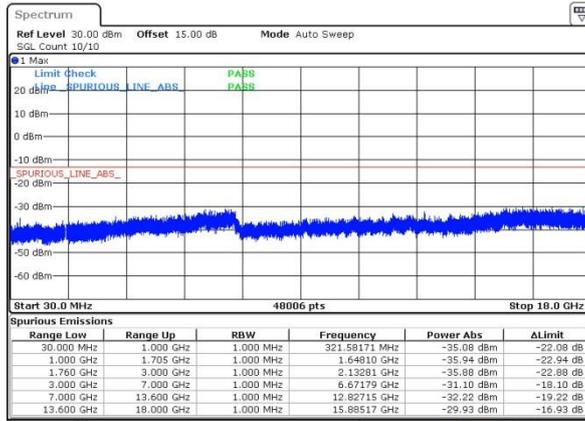


Date: 2 MAR 2018 02:08:30



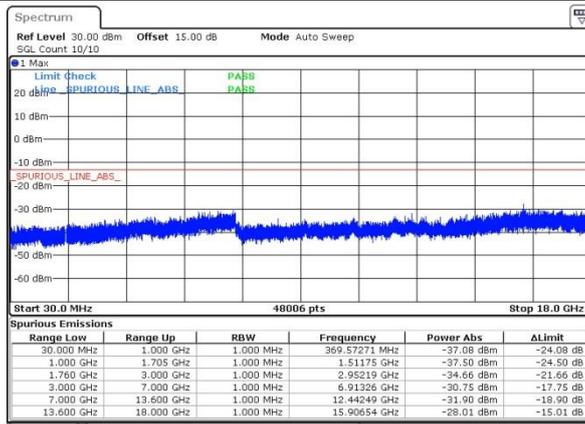
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



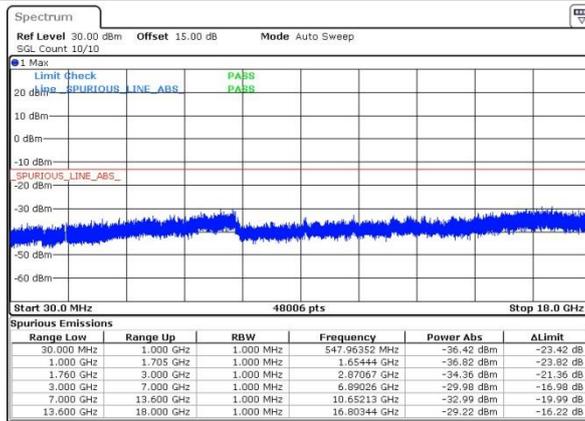
Date: 2 MAR 2018 02:27:00

Middle Channel



Date: 2 MAR 2018 02:28:21

Highest Channel



Date: 2 MAR 2018 02:29:41



### 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	0.0036	0.0155	PASS
40	Normal Voltage	0.0407	0.0072	
30	Normal Voltage	0.0012	0.0299	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0371	0.0096	
0	Normal Voltage	0.0227	0.0335	
-10	Normal Voltage	0.0215	0.0227	
-20	Normal Voltage	0.0012	0.0072	
-30	Normal Voltage	0.0024	0.0239	
20	Maximum Voltage	0.0036	0.0143	
20	Normal Voltage	0.0036	0.0108	
20	Battery End Point	0.0191	0.0120	

Note: Normal Voltage = 3.85V. : Battery End Point (BEP) =3.5V. : Maximum Voltage =4.35 V



Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0032	0.0005	PASS
40	Normal Voltage	0.0043	0.0011	
30	Normal Voltage	0.0053	0.0027	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0011	0.0016	
0	Normal Voltage	0.0074	0.0191	
-10	Normal Voltage	0.0154	0.0005	
-20	Normal Voltage	0.0202	0.0032	
-30	Normal Voltage	0.0016	0.0011	
20	Maximum Voltage	0.0053	0.0165	
20	Normal Voltage	0.0021	0.0037	
20	Battery End Point	0.0128	0.0016	

**Note:**

1. Normal Voltage = 3.85V. ; Battery End Point (BEP) =3.5V. ; Maximum Voltage =4.35 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	0.0155	PASS
40	Normal Voltage	0.0418	
30	Normal Voltage	0.0395	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0179	
0	Normal Voltage	0.0359	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0203	
-30	Normal Voltage	0.0311	
20	Maximum Voltage	0.0514	
20	Normal Voltage	0.0191	
20	Battery End Point	0.0048	

**Note:** Normal Voltage = 3.85V. ; Battery End Point (BEP) =3.5V. ; Maximum Voltage =4.35 V



Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0032	PASS
40	Normal Voltage	0.0027	
30	Normal Voltage	0.0101	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0021	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0138	
-20	Normal Voltage	0.0133	
-30	Normal Voltage	0.0021	
20	Maximum Voltage	0.0027	
20	Normal Voltage	0.0144	
20	Battery End Point	0.0106	

**Note:**

1. Normal Voltage = 3.85V. ; Battery End Point (BEP) =3.5V. ; 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	0.0144	PASS
40	Normal Voltage	0.0133	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0110	
0	Normal Voltage	0.0075	
-10	Normal Voltage	0.0040	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0069	
20	Maximum Voltage	0.0069	
20	Normal Voltage	0.0098	
20	Battery End Point	0.0023	

**Note:**

1. Normal Voltage = 3.85V. ; Battery End Point (BEP) =3.5V. ; 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 Conducted 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	-45.39	-13	-32.39	-47.30	1.14	5.20	H
	2472	-44.62	-13	-31.62	-47.25	1.12	5.90	H
	3297	-63.92	-13	-50.92	-67.13	1.34	6.70	H
	1648	-44.27	-13	-31.27	-46.18	1.14	5.20	V
	2472	-48.35	-13	-35.35	-50.98	1.12	5.90	V
	3297	-64.85	-13	-51.85	-68.06	1.34	6.70	V
Middle	1672	-41.69	-13	-28.69	-43.60	1.14	5.20	H
	2510	-45.53	-13	-32.53	-48.16	1.12	5.90	H
	3348	-63.64	-13	-50.64	-66.85	1.34	6.70	H
	1672	-43.59	-13	-30.59	-45.50	1.14	5.20	V
	2510	-40.35	-13	-27.35	-42.98	1.12	5.90	V
	3348	-63.37	-13	-50.37	-66.58	1.34	6.70	V
Highest	1698	-44.25	-13	-31.25	-46.16	1.14	5.20	H
	2546	-40.70	-13	-27.70	-43.33	1.12	5.90	H
	3396	-63.30	-13	-50.30	-66.51	1.34	6.70	H
	1698	-43.64	-13	-30.64	-45.55	1.14	5.20	V
	2546	-38.51	-13	-25.51	-41.14	1.12	5.90	V
	3396	-64.40	-13	-51.40	-67.61	1.34	6.70	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	-57.63	-13	-44.63	-59.54	1.14	5.20	H
	2472	-52.98	-13	-39.98	-55.61	1.12	5.90	H
	3297	-64.38	-13	-51.38	-67.59	1.34	6.70	H
	1648	-53.91	-13	-40.91	-55.82	1.14	5.20	V
	2472	-57.11	-13	-44.11	-59.74	1.12	5.90	V
	3297	-64.76	-13	-51.76	-67.97	1.34	6.70	V
Middle	1672	-54.09	-13	-41.09	-56.00	1.14	5.20	H
	2508	-55.52	-13	-42.52	-58.15	1.12	5.90	H
	3345	-64.39	-13	-51.39	-67.60	1.34	6.70	H
	1674	-56.22	-13	-43.22	-58.13	1.14	5.20	V
	2510	-53.88	-13	-40.88	-56.51	1.12	5.90	V
	3345	-64.93	-13	-51.93	-68.14	1.34	6.70	V
Highest	1698	-53.63	-13	-40.63	-55.54	1.14	5.20	H
	2546	-50.42	-13	-37.42	-53.05	1.12	5.90	H
	3396	-64.06	-13	-51.06	-67.27	1.34	6.70	H
	1698	-48.48	-13	-35.48	-50.39	1.14	5.20	V
	2546	-54.00	-13	-41.00	-56.63	1.12	5.90	V
	3396	-64.88	-13	-51.88	-68.09	1.34	6.70	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 )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3699	-53.90	-13	-40.90	-59.07	1.83	7.00	H
	5550	-57.15	-13	-44.15	-64.77	2.18	9.80	H
	7401	-54.19	-13	-41.19	-63.86	2.53	12.20	H
	3699	-53.39	-13	-40.39	-58.56	1.83	7.00	V
	5550	-56.14	-13	-43.14	-63.76	2.18	9.80	V
	7401	-54.78	-13	-41.78	-64.45	2.53	12.20	V
Middle	3759	-53.30	-13	-40.30	-58.47	1.83	7.00	H
	5640	-57.40	-13	-44.40	-65.02	2.18	9.80	H
	7521	-53.61	-13	-40.61	-63.28	2.53	12.20	H
	3759	-54.80	-13	-41.80	-59.97	1.83	7.00	V
	5640	-57.31	-13	-44.31	-64.93	2.18	9.80	V
	7521	-54.19	-13	-41.19	-63.86	2.53	12.20	V
Highest	3819	-54.12	-13	-41.12	-59.29	1.83	7.00	H
	5730	-58.58	-13	-45.58	-66.20	2.18	9.80	H
	7638	-53.22	-13	-40.22	-62.89	2.53	12.20	H
	3819	-54.11	-13	-41.11	-59.28	1.83	7.00	V
	5730	-59.80	-13	-46.80	-67.42	2.18	9.80	V
	7638	-53.79	-13	-40.79	-63.46	2.53	12.20	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 )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3699	-58.00	-13	-45.00	-63.17	1.83	7.00	H
	5550	-59.68	-13	-46.68	-67.30	2.18	9.80	H
	7401	-54.06	-13	-41.06	-63.73	2.53	12.20	H
	3699	-54.64	-13	-41.64	-59.81	1.83	7.00	V
	5550	-59.80	-13	-46.80	-67.42	2.18	9.80	V
	7401	-55.04	-13	-42.04	-64.71	2.53	12.20	V
Middle	3759	-56.39	-13	-43.39	-61.56	1.83	7.00	H
	5640	-59.58	-13	-46.58	-67.20	2.18	9.80	H
	7521	-53.46	-13	-40.46	-63.13	2.53	12.20	H
	3759	-57.46	-13	-44.46	-62.63	1.83	7.00	V
	5640	-54.97	-13	-41.97	-62.59	2.18	9.80	V
	7521	-53.89	-13	-40.89	-63.56	2.53	12.20	V
Highest	3819	-58.27	-13	-45.27	-63.44	1.83	7.00	H
	5730	-59.46	-13	-46.46	-67.08	2.18	9.80	H
	7638	-53.20	-13	-40.20	-62.87	2.53	12.20	H
	3819	-59.83	-13	-46.83	-65.00	1.83	7.00	V
	5730	-59.82	-13	-46.82	-67.44	2.18	9.80	V
	7638	-53.67	-13	-40.67	-63.34	2.53	12.20	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	-59.47	-13	-46.47	-61.38	1.14	5.20	H
	2480	-49.28	-13	-36.28	-51.91	1.12	5.90	H
	3306	-54.44	-13	-41.44	-57.65	1.34	6.70	H
	1652	-58.13	-13	-45.13	-60.04	1.14	5.20	V
	2480	-52.73	-13	-39.73	-55.36	1.12	5.90	V
	3306	-55.92	-13	-42.92	-59.13	1.34	6.70	V
Middle	1672	-57.59	-13	-44.59	-59.50	1.14	5.20	H
	2510	-55.75	-13	-42.75	-58.38	1.12	5.90	H
	3345	-60.89	-13	-47.89	-64.10	1.34	6.70	H
	1672	-56.00	-13	-43.00	-57.91	1.14	5.20	V
	2510	-52.19	-13	-39.19	-54.82	1.12	5.90	V
	3345	-60.50	-13	-47.50	-63.71	1.34	6.70	V
Highest	1694	-60.53	-13	-47.53	-62.44	1.14	5.20	H
	2540	-54.31	-13	-41.31	-56.94	1.12	5.90	H
	3387	-60.19	-13	-47.19	-63.40	1.34	6.70	H
	1694	-59.39	-13	-46.39	-61.30	1.14	5.20	V
	2540	-56.67	-13	-43.67	-59.30	1.12	5.90	V
	3387	-61.03	-13	-48.03	-64.24	1.34	6.70	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 )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3705	-49.48	-13	-36.48	-54.65	1.83	7.00	H
	5556	-57.07	-13	-44.07	-64.69	2.18	9.80	H
	7410	-49.92	-13	-36.92	-59.59	2.53	12.20	H
	3705	-48.25	-13	-35.25	-53.42	1.83	7.00	V
	5556	-56.22	-13	-43.22	-63.84	2.18	9.80	V
	7410	-49.36	-13	-36.36	-59.03	2.53	12.20	V
Middle	3759	-47.49	-13	-34.49	-52.66	1.83	7.00	H
	5640	-56.21	-13	-43.21	-63.83	2.18	9.80	H
	7521	-49.69	-13	-36.69	-59.36	2.53	12.20	H
	3759	-47.22	-13	-34.22	-52.39	1.83	7.00	V
	5640	-53.79	-13	-40.79	-61.41	2.18	9.80	V
	7521	-49.67	-13	-36.67	-59.34	2.53	12.20	V
Highest	3816	-46.58	-13	-33.58	-51.75	1.83	7.00	H
	5724	-55.62	-13	-42.62	-63.24	2.18	9.80	H
	7629	-51.16	-13	-38.16	-60.83	2.53	12.20	H
	3816	-45.85	-13	-32.85	-51.02	1.83	7.00	V
	5724	-53.59	-13	-40.59	-61.21	2.18	9.80	V
	7629	-49.61	-13	-36.61	-59.28	2.53	12.20	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 )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3426	-62.18	-13	-49.18	-67.32	1.81	6.95	H
	5136	-58.95	-13	-45.95	-66.02	2.23	9.30	H
	6849	-46.28	-13	-33.28	-54.56	2.60	10.88	H
	3426	-61.25	-13	-48.25	-66.39	1.81	6.95	V
	5136	-58.77	-13	-45.77	-65.84	2.23	9.30	V
	6849	-40.87	-13	-27.87	-49.15	2.6	10.88	V
Middle	3465	-62.98	-13	-49.98	-68.12	1.81	6.95	H
	5199	-58.80	-13	-45.80	-65.87	2.23	9.30	H
	6930	-49.50	-13	-36.50	-57.78	2.60	10.88	H
	3465	-62.13	-13	-49.13	-67.27	1.81	6.95	V
	5199	-60.29	-13	-47.29	-67.36	2.23	9.30	V
	6930	-45.93	-13	-32.93	-54.21	2.6	10.88	V
Highest	3504	-61.26	-13	-48.26	-66.40	1.81	6.95	H
	5259	-57.62	-13	-44.62	-64.69	2.23	9.30	H
	7011	-49.31	-13	-36.31	-57.59	2.60	10.88	H
	3504	-61.43	-13	-48.43	-66.57	1.81	6.95	V
	5259	-59.56	-13	-46.56	-66.63	2.23	9.30	V
	7011	-44.55	-13	-31.55	-52.83	2.6	10.88	V

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