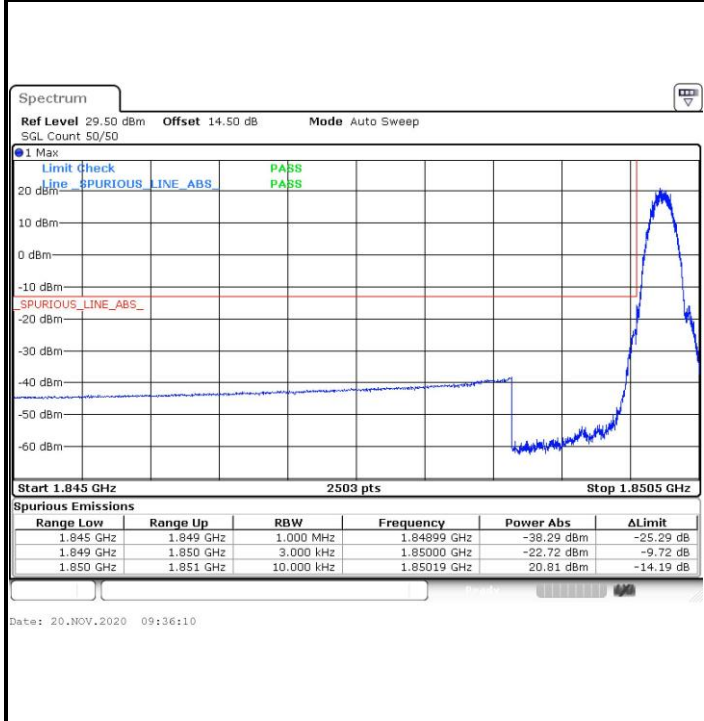


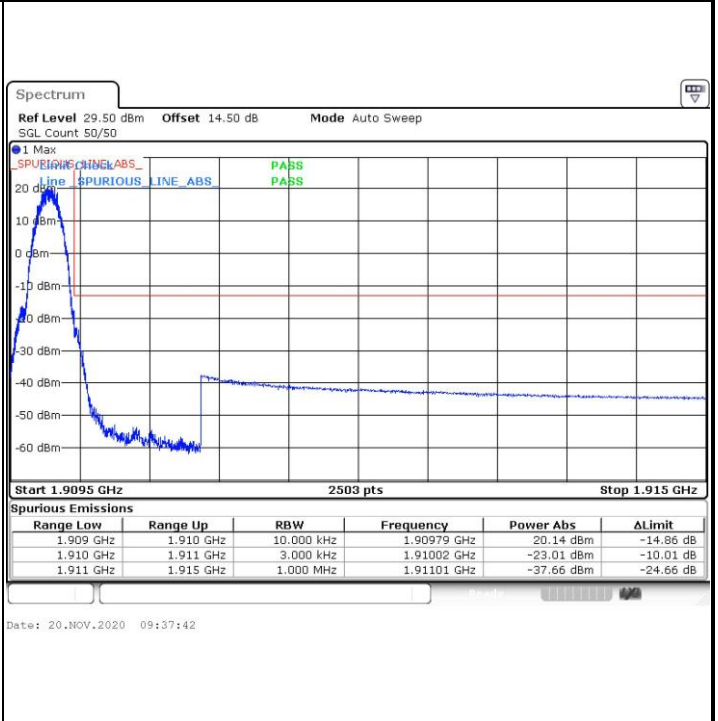


GSM1900 (GSM)

Lowest Band Edge

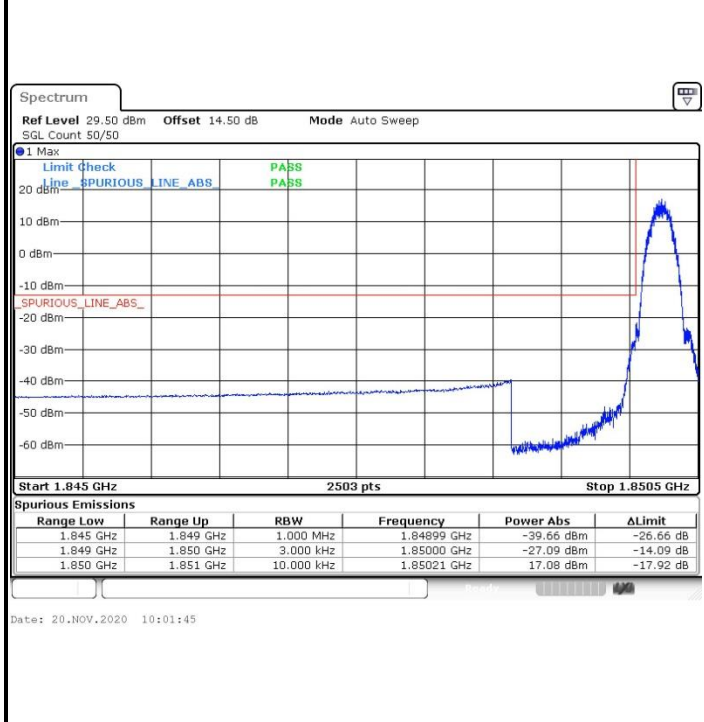


Highest Band Edge

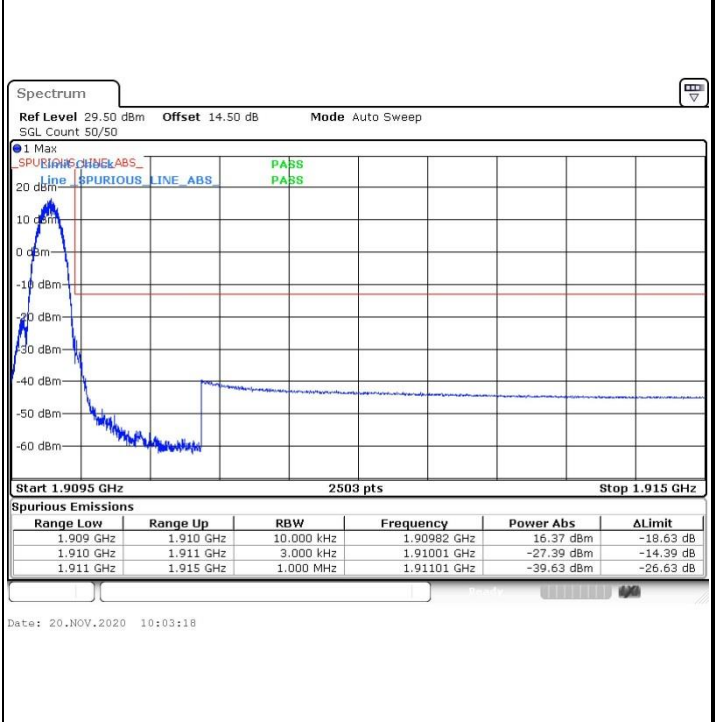


GSM1900 (EDGE class 8)

Lowest Band Edge

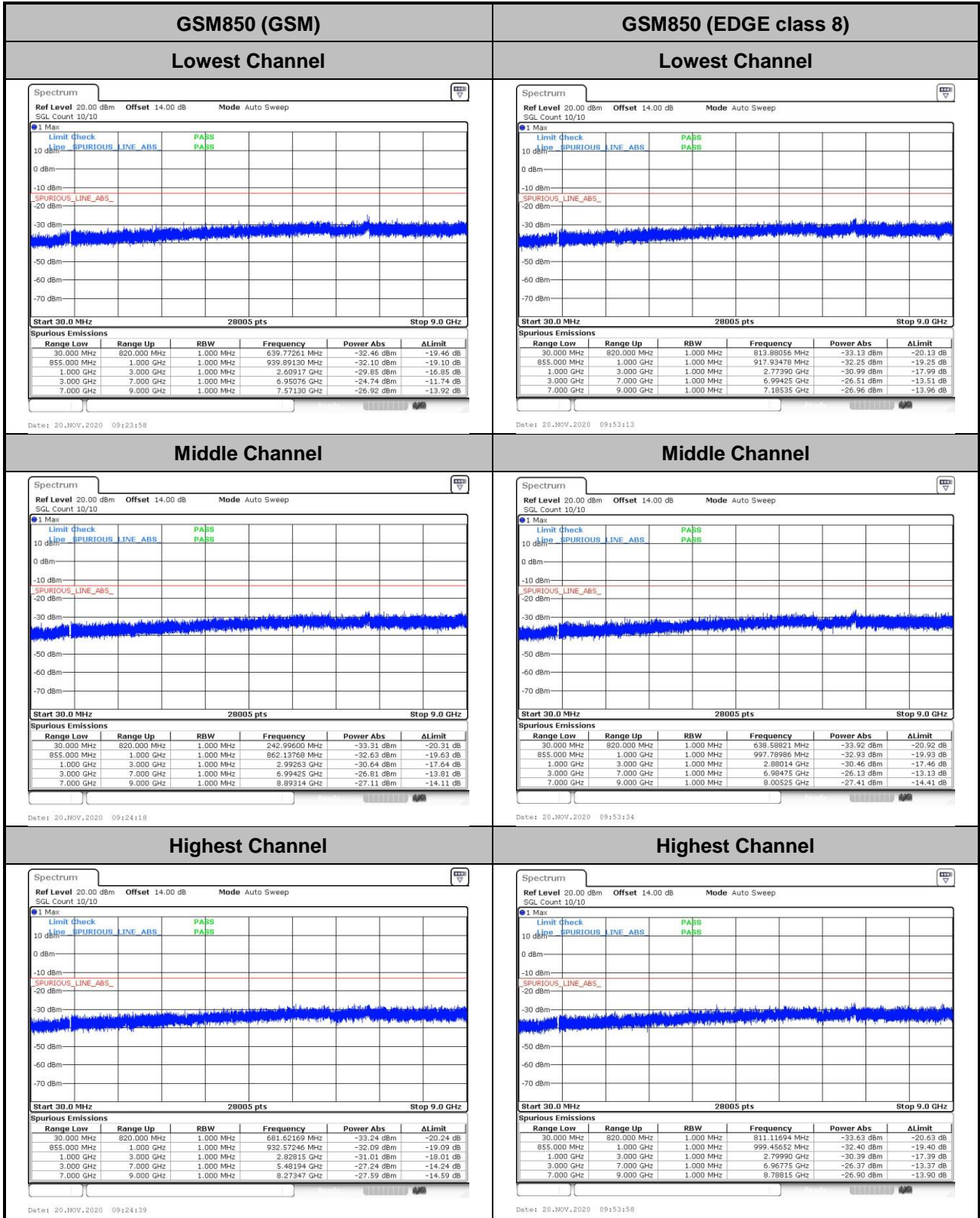


Highest Band Edge





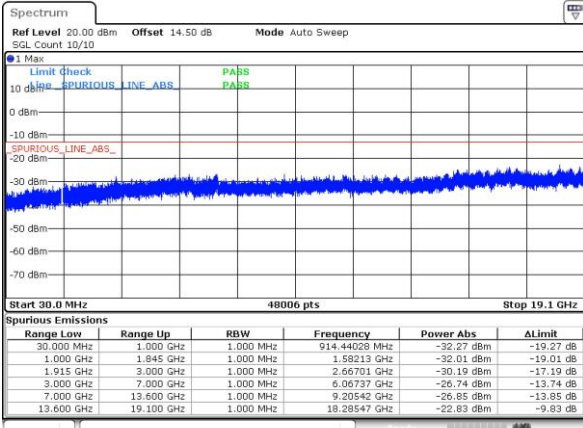
Conducted Spurious Emission





GSM1900 (GSM)

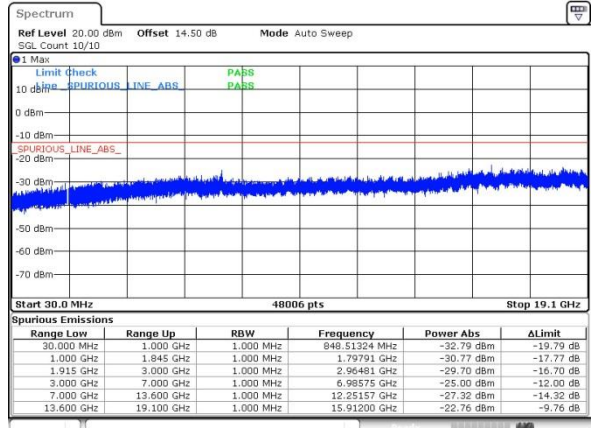
Lowest Channel



Date: 20.NOV.2020 09:38:30

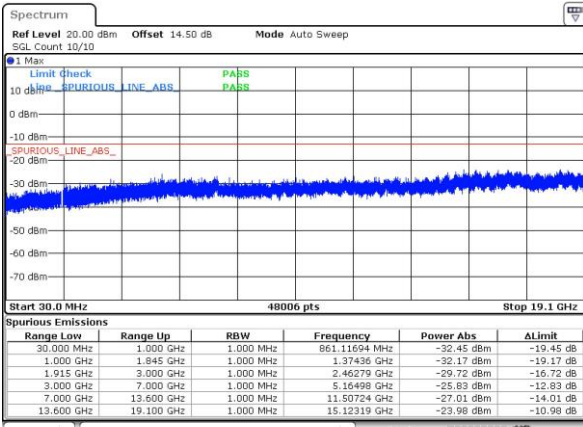
GSM1900 (EDGE class 8)

Lowest Channel



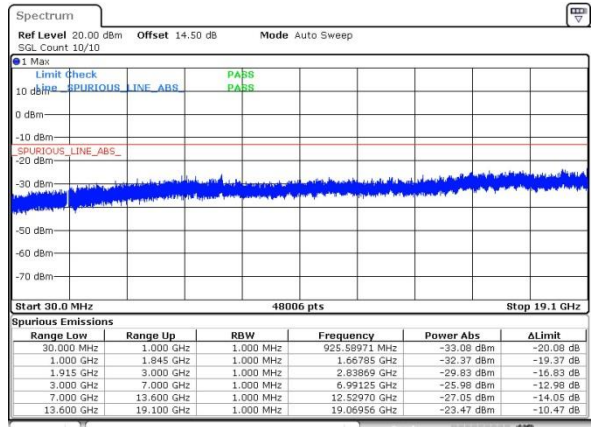
Date: 20.NOV.2020 10:04:08

Middle Channel



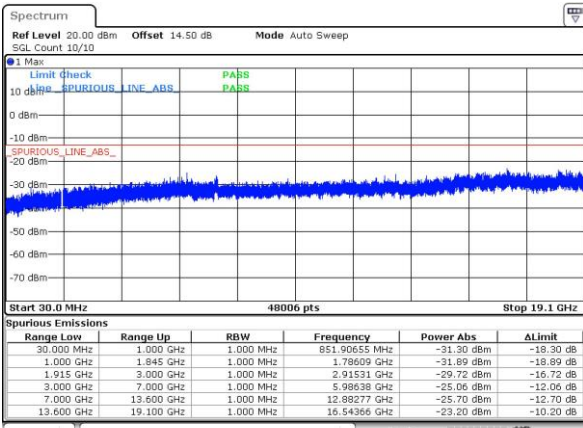
Date: 20.NOV.2020 09:38:53

Middle Channel



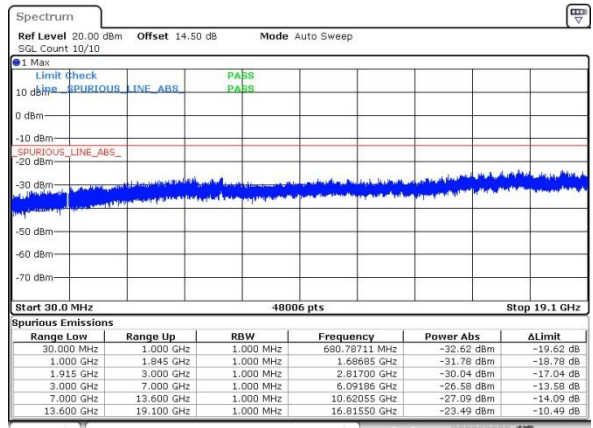
Date: 20.NOV.2020 10:04:33

Highest Channel



Date: 20.NOV.2020 09:39:17

Highest Channel



Date: 20.NOV.2020 10:04:55



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	0.0150	0.0010	PASS
40	Normal Voltage	0.0018	0.0031	
30	Normal Voltage	0.0022	0.0048	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0021	0.0254	
0	Normal Voltage	0.0008	0.0031	
-10	Normal Voltage	0.0019	0.0003	
-20	Normal Voltage	0.0025	0.0025	
-30	Normal Voltage	0.0018	0.0281	
20	Maximum Voltage	0.0132	0.0017	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0058	0.0301	

Note: Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 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	0.0152	0.0021	PASS
40	Normal Voltage	0.0014	0.0048	
30	Normal Voltage	0.0012	0.0011	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0131	0.0018	
0	Normal Voltage	0.0008	0.0011	
-10	Normal Voltage	0.0014	0.0005	
-20	Normal Voltage	0.0132	0.0046	
-30	Normal Voltage	0.0124	0.0005	
20	Maximum Voltage	0.0131	0.0015	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0135	0.0014	

Note:

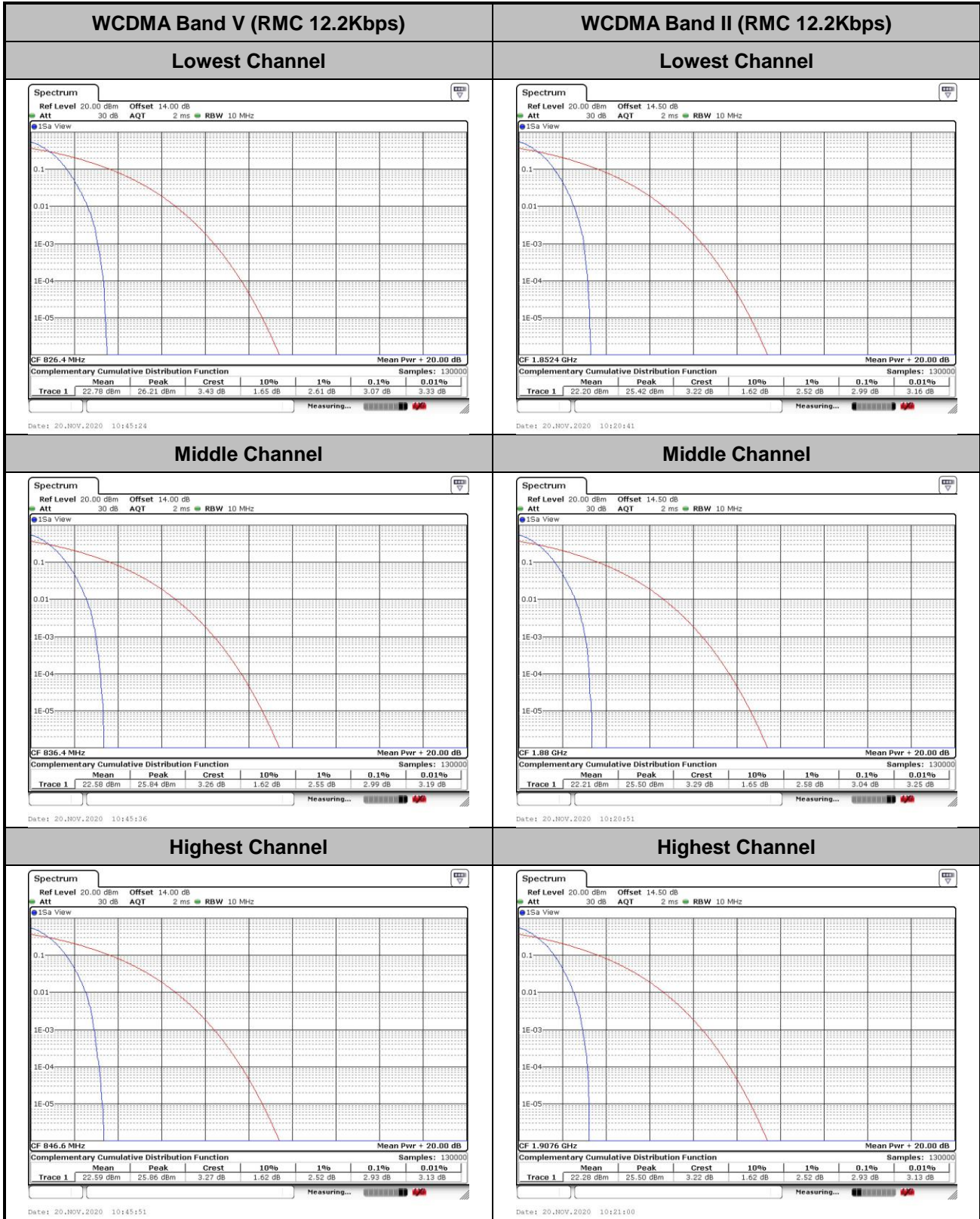
1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.4 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



A2. WCDMA

Peak-to-Average Ratio

Mode	WCDMA Band V(dB)	WCDMA Band II(dB)	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	3.07	2.99	PASS
Middle CH	2.99	3.04	
Highest CH	2.93	2.93	





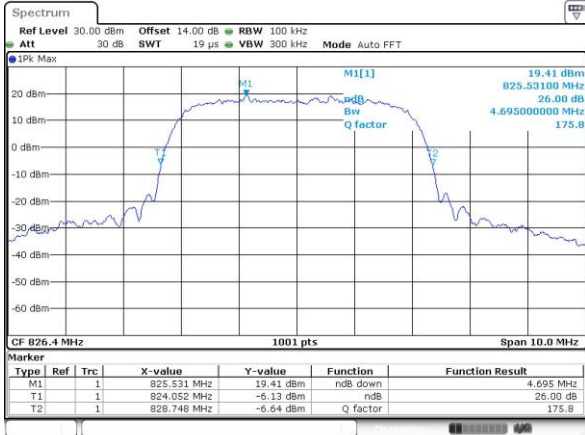
26dB Bandwidth

Mode	WCDMA Band V(MHz)	WCDMA Band II(MHz)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.70	4.72
Middle CH	4.71	4.70
Highest CH	4.71	4.72



WCDMA Band V (RMC 12.2Kbps)

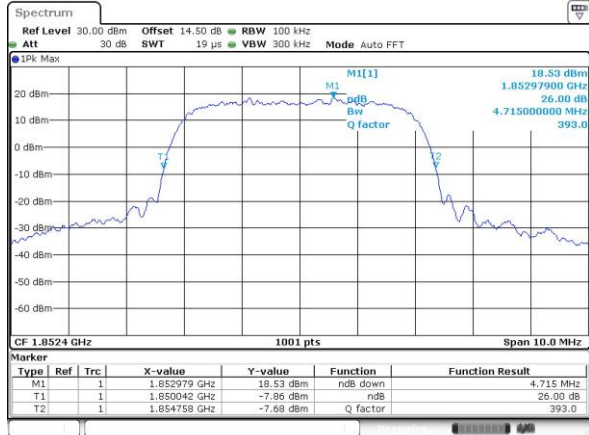
Lowest Channel



Date: 20.NOV.2020 10:24:10

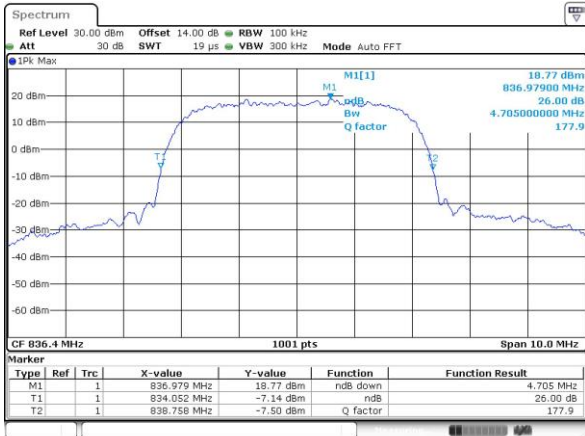
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



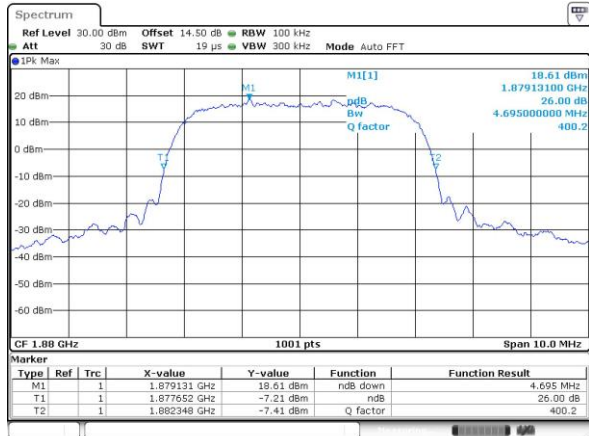
Date: 20.NOV.2020 10:11:53

Middle Channel



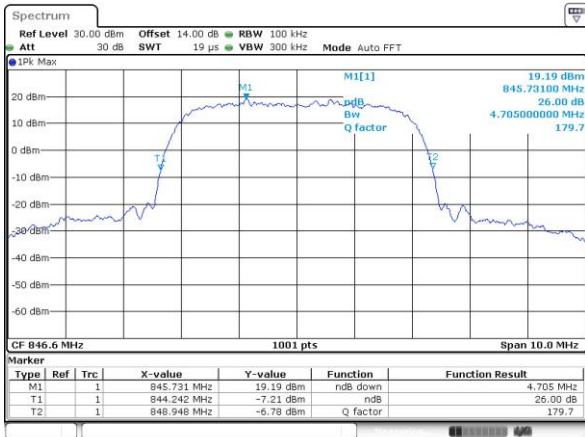
Date: 20.NOV.2020 10:24:33

Middle Channel



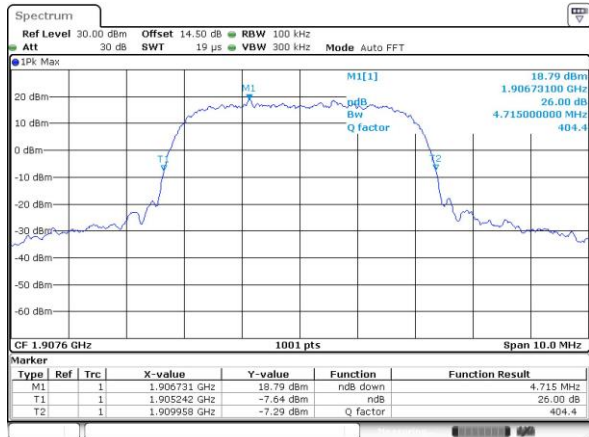
Date: 20.NOV.2020 10:11:15

Highest Channel



Date: 20.NOV.2020 10:24:57

Highest Channel



Date: 20.NOV.2020 10:11:35



Occupied Bandwidth

Mode	WCDMA Band V(MHz)	WCDMA Band II(MHz)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.12	4.11
Middle CH	4.10	4.11
Highest CH	4.11	4.11

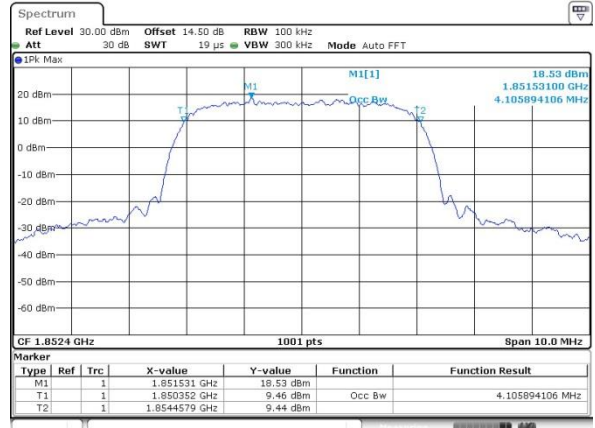
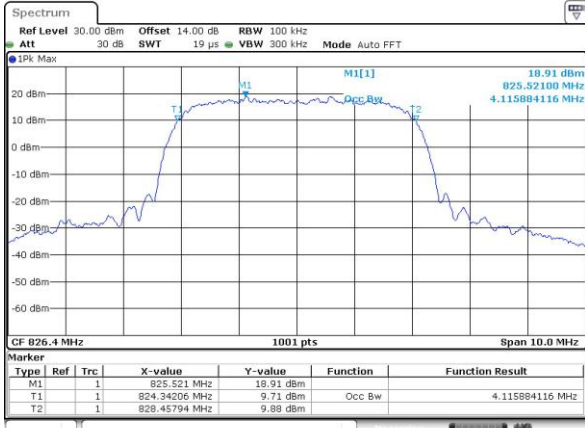


WCDMA Band V (RMC 12.2Kbps)

WCDMA Band II (RMC 12.2Kbps)

Lowest Channel

Lowest Channel

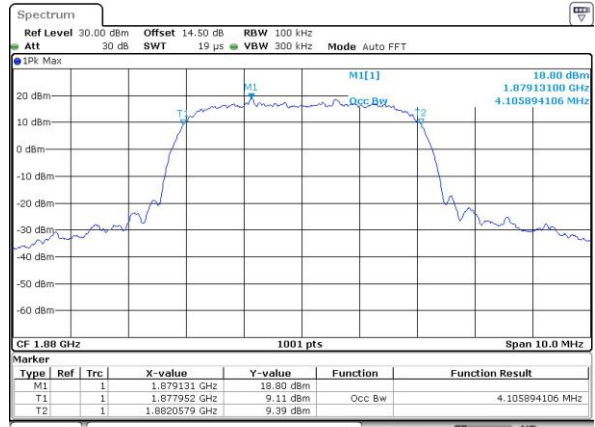
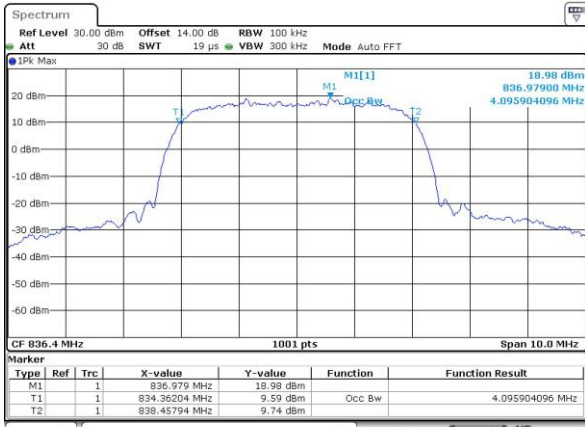


Date: 20.NOV.2020 10:25:27

Date: 20.NOV.2020 10:12:54

Middle Channel

Middle Channel

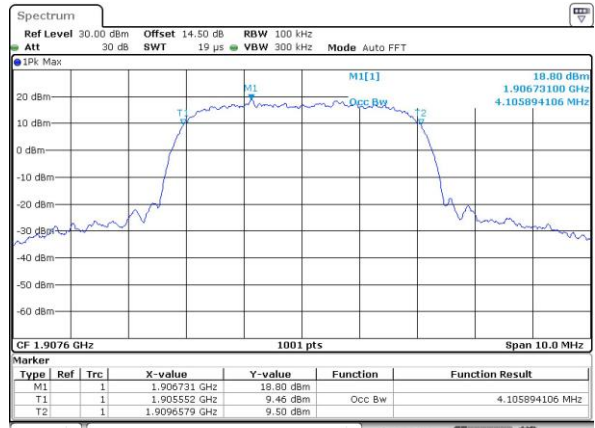
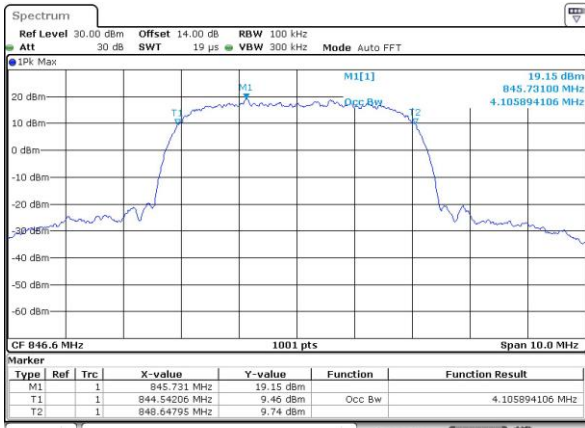


Date: 20.NOV.2020 10:25:47

Date: 20.NOV.2020 10:13:15

Highest Channel

Highest Channel

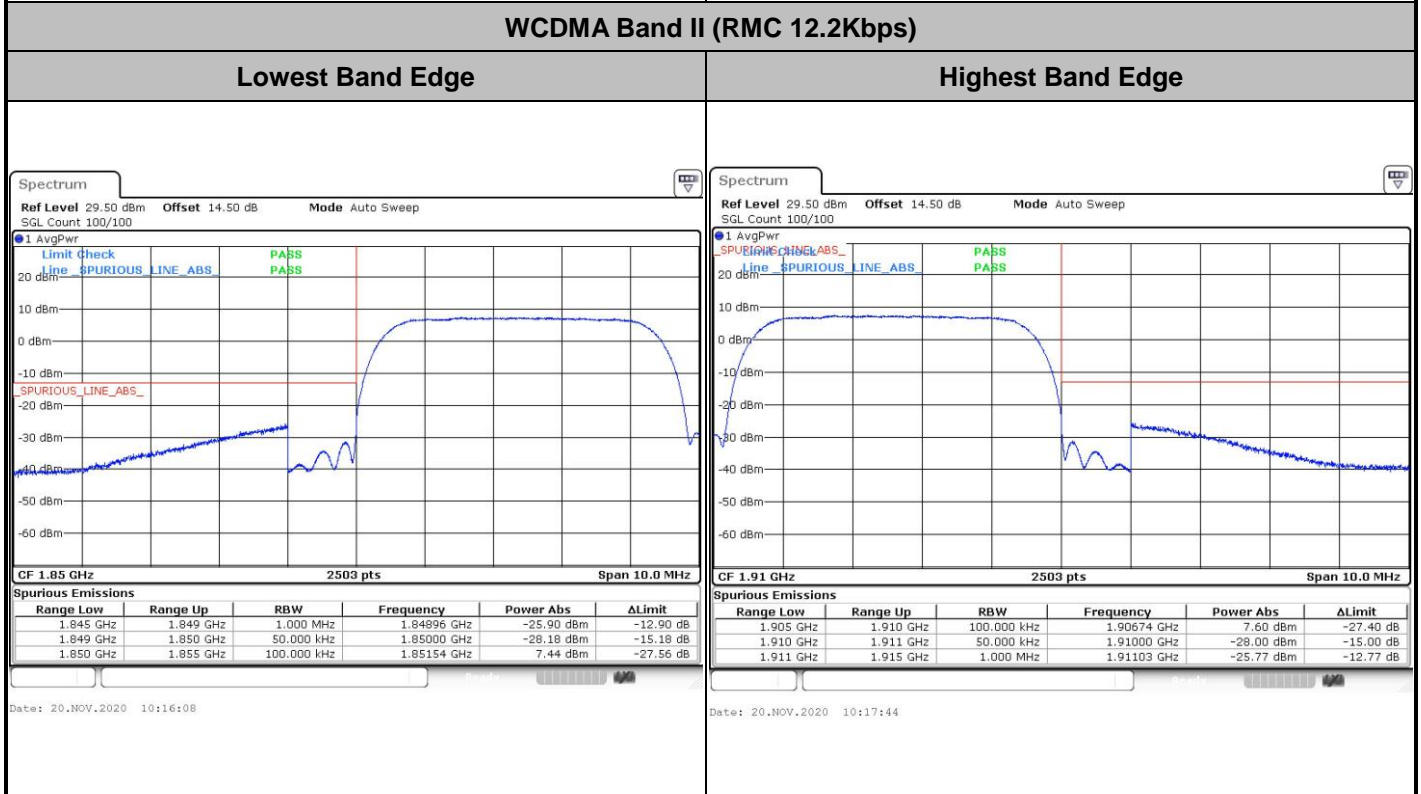
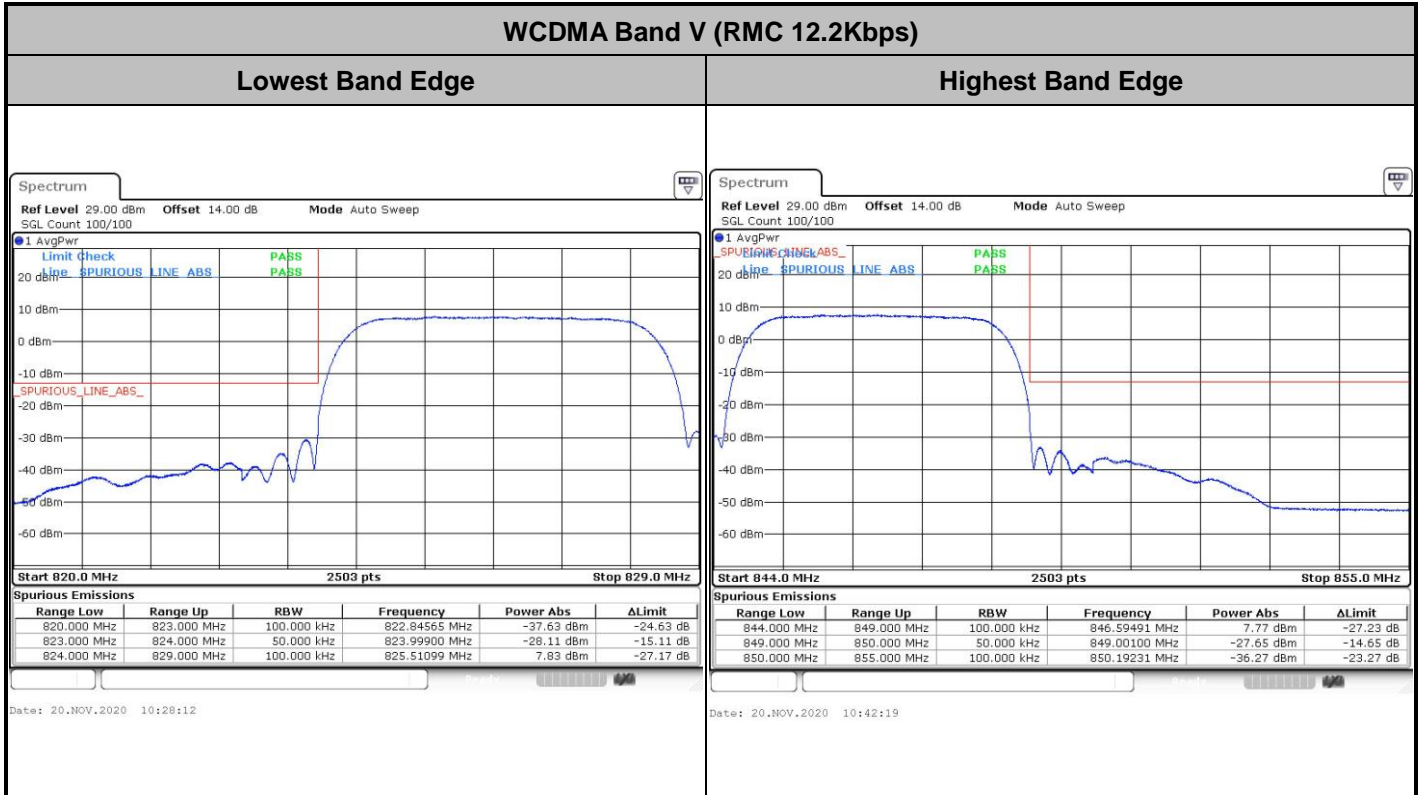


Date: 20.NOV.2020 10:26:07

Date: 20.NOV.2020 10:13:42

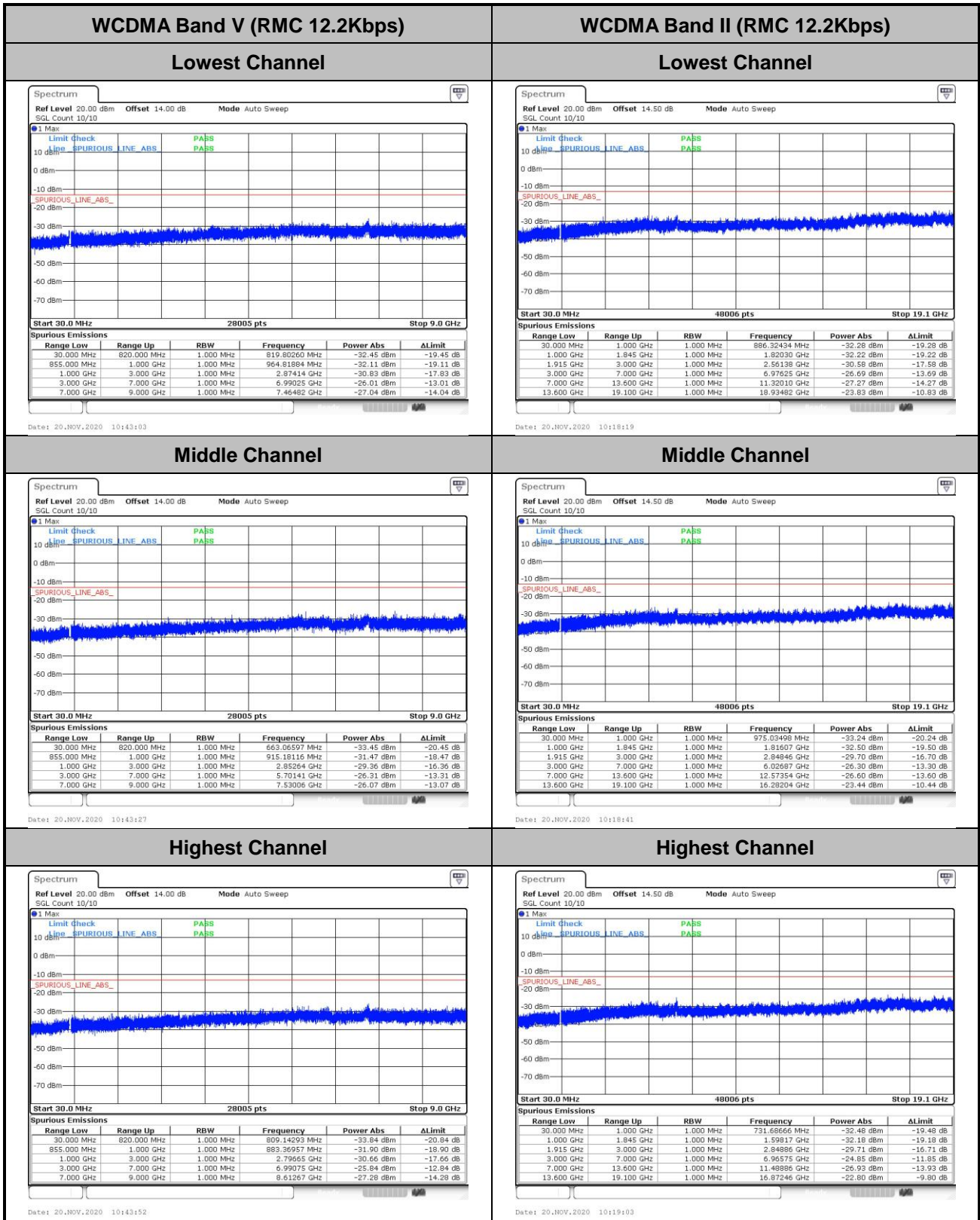


Conducted Band Edge





Conducted Spurious Emission





Frequency Stability

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	0.0011	PASS
40	Normal Voltage	0.0062	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0009	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0018	
-20	Normal Voltage	0.0087	
-30	Normal Voltage	0.0014	
20	Maximum Voltage	0.0021	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0005	

Note: Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 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	0.0013	PASS
40	Normal Voltage	0.0048	
30	Normal Voltage	0.0015	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0038	
0	Normal Voltage	0.0041	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0019	
-30	Normal Voltage	0.0057	
20	Maximum Voltage	0.0064	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0072	

Note:

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 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 Radiated 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	-49.33	-13	-36.33	-58.06	-52.58	4.00	9.40	H
	2509.2	-43.04	-13	-30.04	-56.61	-46.61	4.88	10.60	H
	3345.6	-55.16	-13	-42.16	-72.03	-60.09	5.52	12.60	H
	4182	-46.37	-13	-33.37	-66.59	-50.84	6.00	12.62	H
	1672.8	-40.14	-13	-27.14	-49.06	-43.39	4.00	9.40	V
	2509.2	-33.71	-13	-20.71	-49.40	-37.28	4.88	10.60	V
	3345.6	-55.73	-13	-42.73	-72.62	-60.66	5.52	12.60	V
	4182	-40.71	-13	-27.71	-60.85	-45.18	6.00	12.62	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	-53.76	-13	-40.76	-62.49	-57.01	4.00	9.40	H
	2509.2	-45.35	-13	-32.35	-58.92	-48.92	4.88	10.60	H
	3345.6	-56.15	-13	-43.15	-73.02	-61.08	5.52	12.60	H
	4182	-46.27	-13	-33.27	-66.49	-50.74	6.00	12.62	H
	1672.8	-40.13	-13	-27.13	-49.05	-43.38	4.00	9.40	V
	2509.2	-34.26	-13	-21.26	-47.95	-37.83	4.88	10.60	V
	3345.6	-52.71	-13	-39.71	-69.60	-57.64	5.52	12.60	V
	4182	-48.00	-13	-35.00	-68.14	-52.47	6.00	12.62	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	-57.87	-13	-44.87	-76.55	-64.62	5.85	12.60	H
	5640	-54.50	-13	-41.50	-78.04	-60.30	7.30	13.10	H
	7520	-51.91	-13	-38.91	-78.46	-55.06	8.35	11.50	H
	3760	-58.34	-13	-45.34	-76.58	-65.09	5.85	12.60	V
	5640	-55.52	-13	-42.52	-77.85	-61.32	7.30	13.10	V
	7520	-51.16	-13	-38.16	-78.13	-54.31	8.35	11.50	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	-57.99	-13	-44.99	-76.67	-64.74	5.85	12.60	H
	5640	-54.40	-13	-41.40	-77.94	-60.20	7.30	13.10	H
	7520	-51.49	-13	-38.49	-78.04	-54.64	8.35	11.50	H
	3760	-58.43	-13	-45.43	-76.67	-65.18	5.85	12.60	V
	5640	-55.73	-13	-42.73	-78.06	-61.53	7.30	13.10	V
	7520	-51.41	-13	-38.41	-78.38	-54.56	8.35	11.50	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)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672.8	-64.53	-13	-51.53	-73.26	-67.78	4.00	9.40	H
	2509.2	-60.68	-13	-47.68	-74.25	-64.25	4.88	10.60	H
	3345.6	-58.99	-13	-45.99	-75.86	-63.92	5.52	12.60	H
	1672.8	-59.54	-13	-46.54	-68.46	-62.79	4.00	9.40	V
	2509.2	-60.29	-13	-47.29	-73.98	-63.86	4.88	10.60	V
	3345.6	-59.36	-13	-46.36	-76.25	-64.29	5.52	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	-53.41	-13	-40.41	-72.09	-60.16	5.85	12.60	H
	5640	-54.68	-13	-41.68	-78.22	-60.48	7.30	13.10	H
	7520	-51.86	-13	-38.86	-78.41	-55.01	8.35	11.50	H
	3760	-51.63	-13	-38.63	-69.87	-58.38	5.85	12.60	V
	5640	-55.70	-13	-42.70	-78.03	-61.50	7.30	13.10	V
	7520	-51.03	-13	-38.03	-78	-54.18	8.35	11.50	V

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