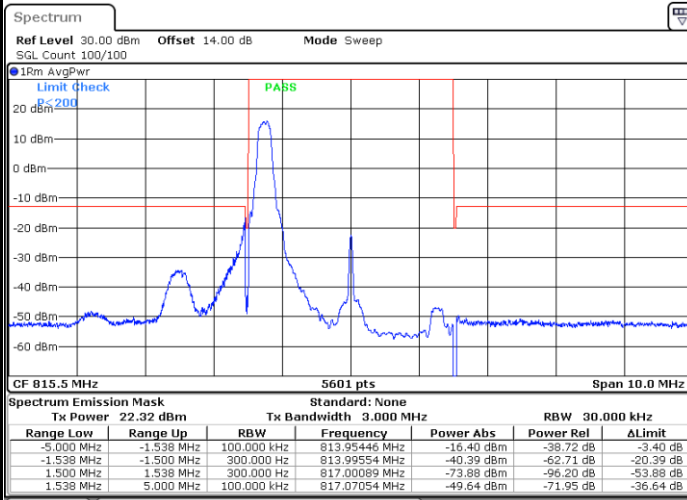




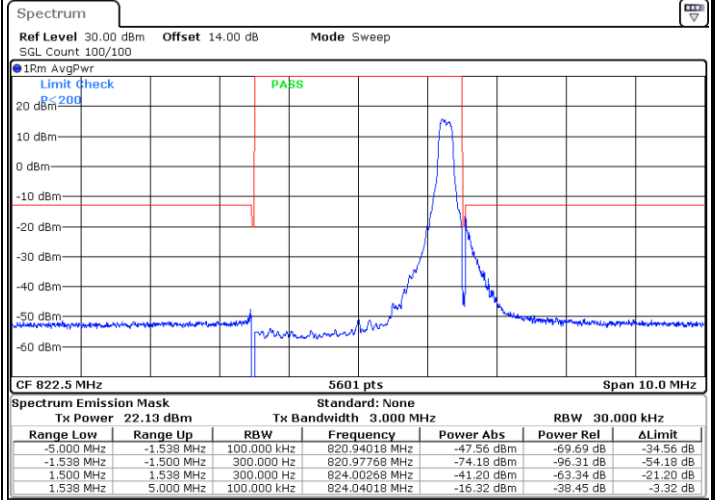
LTE Band 26 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



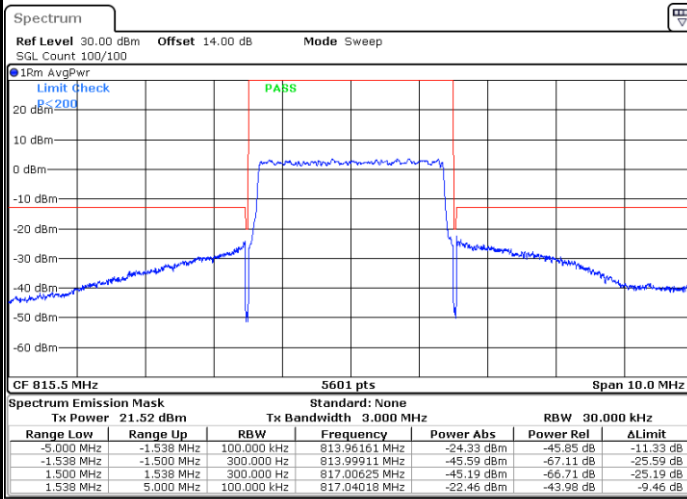
Date: 16.DEC.2019 03:51:02

Highest Band Edge / 1 RB



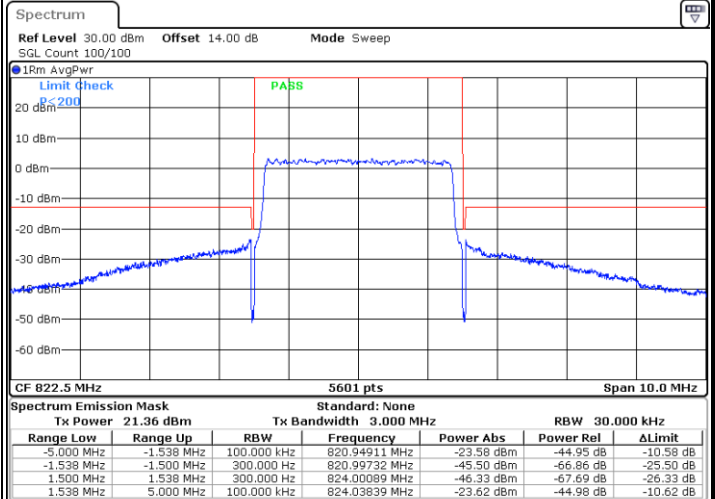
Date: 16.DEC.2019 03:53:05

Lowest Band Edge / Full RB



Date: 16.DEC.2019 03:52:04

Highest Band Edge / Full RB

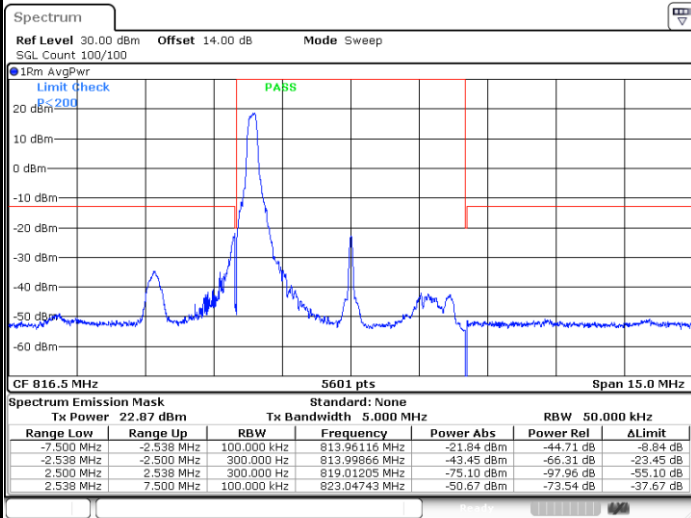


Date: 16.DEC.2019 03:54:06



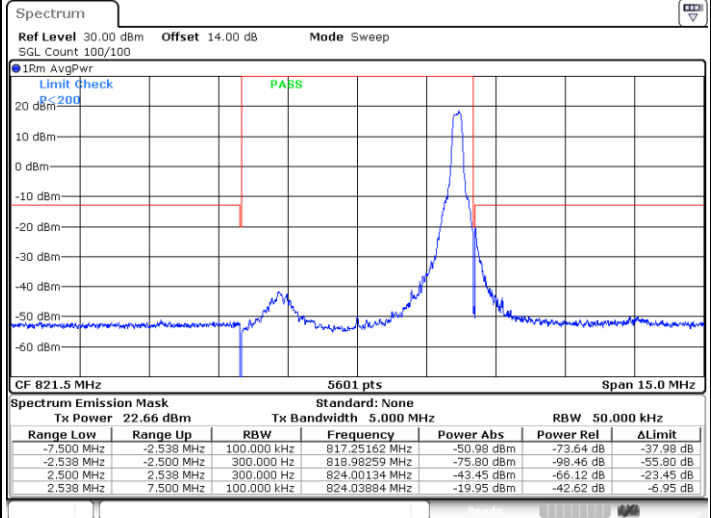
LTE Band 26 / 5MHz / QPSK

Lowest Band Edge / 1 RB



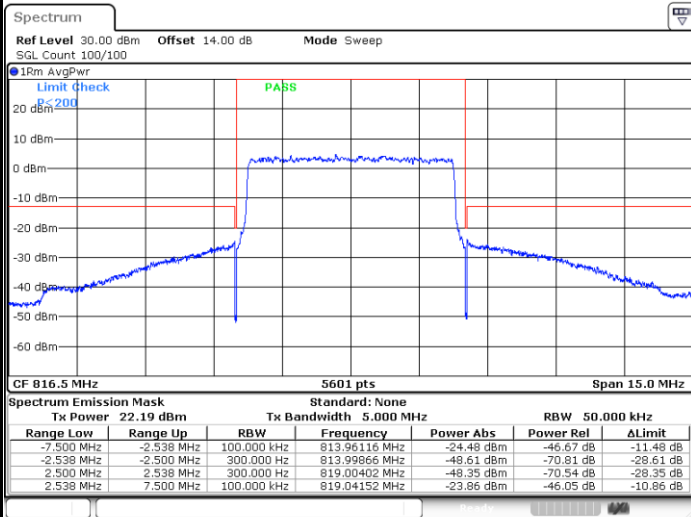
Date: 16.DEC.2019 23:31:36

Highest Band Edge / 1 RB



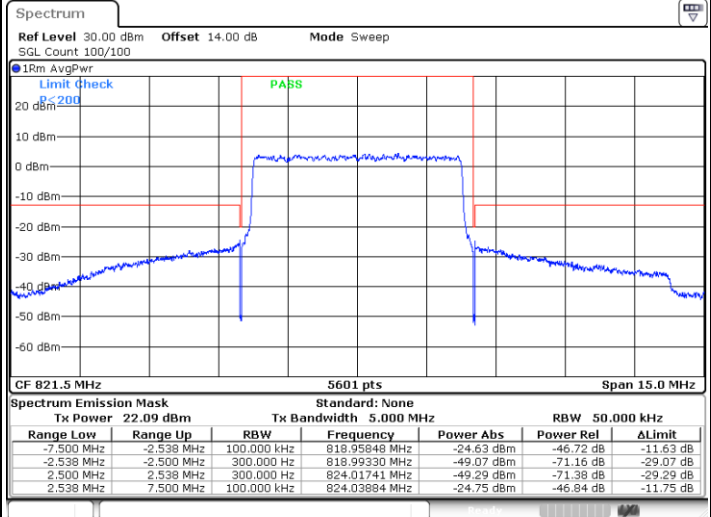
Date: 16.DEC.2019 23:35:36

Lowest Band Edge / Full RB



Date: 16.DEC.2019 23:33:36

Highest Band Edge / Full RB

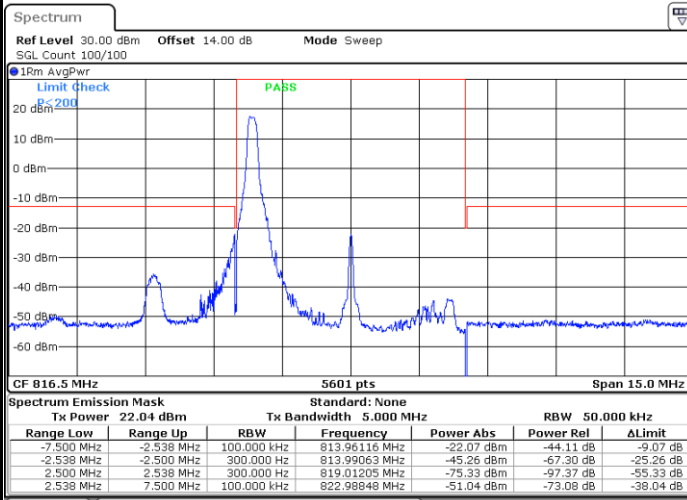


Date: 16.DEC.2019 23:37:36



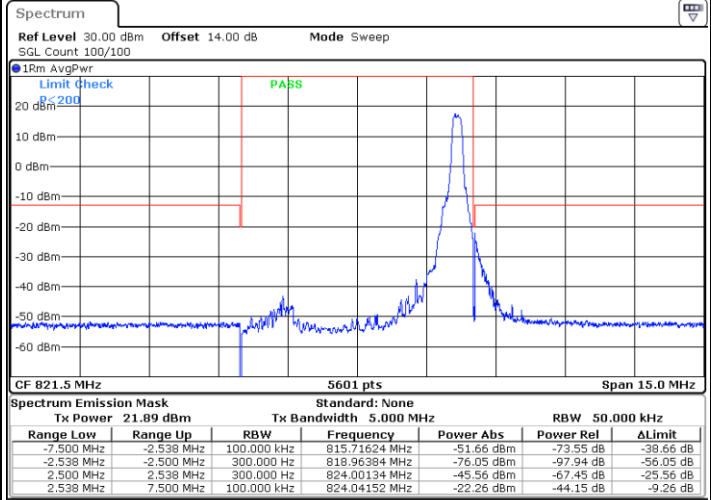
LTE Band 26 / 5MHz / 16QAM

Lowest Band Edge / 1RB



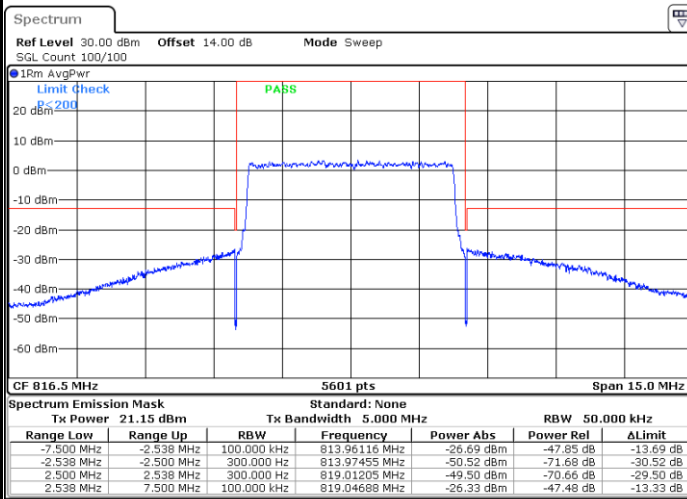
Date: 16.DEC.2019 23:32:36

Highest Band Edge / 1 RB



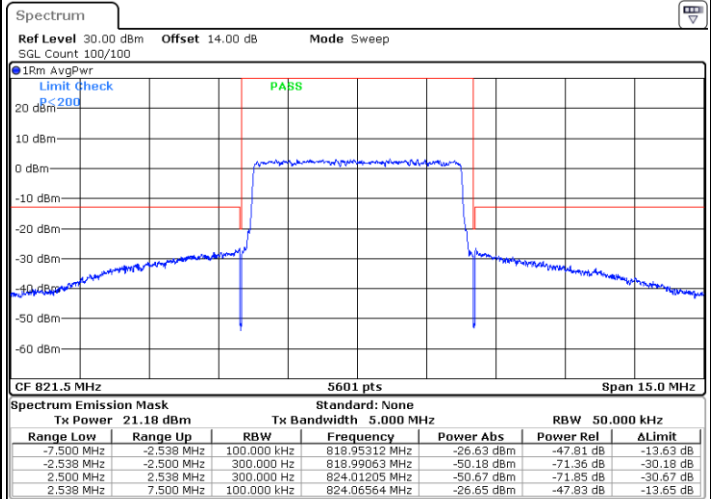
Date: 16.DEC.2019 23:36:36

Lowest Band Edge / Full RB



Date: 16.DEC.2019 23:34:36

Highest Band Edge / Full RB

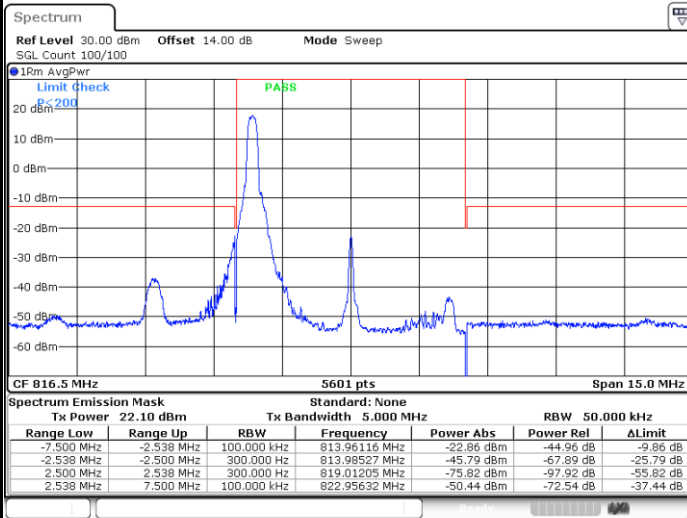


Date: 16.DEC.2019 23:38:37



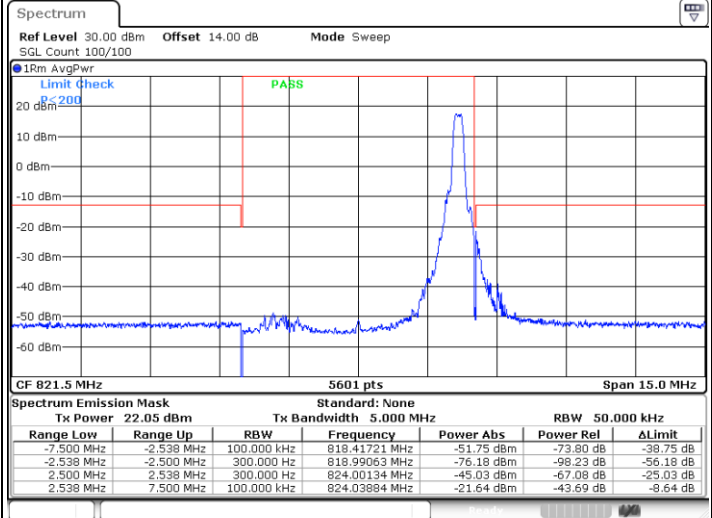
LTE Band 26 / 5MHz / 64QAM

Lowest Band Edge / 1RB



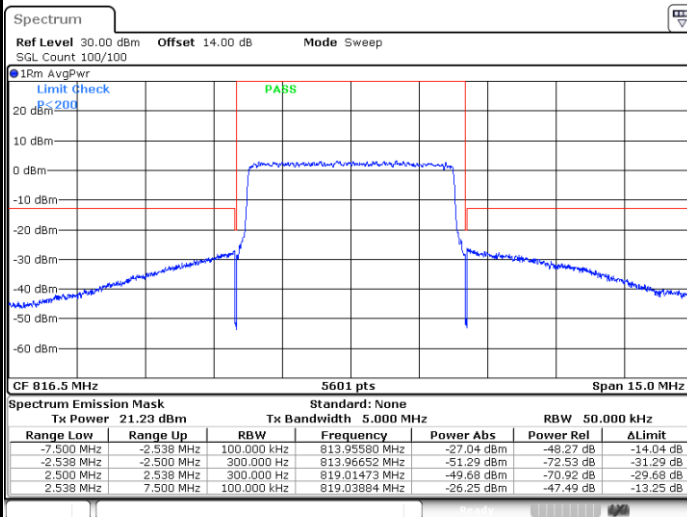
Date: 16.DEC.2019 23:27:36

Highest Band Edge / 1 RB



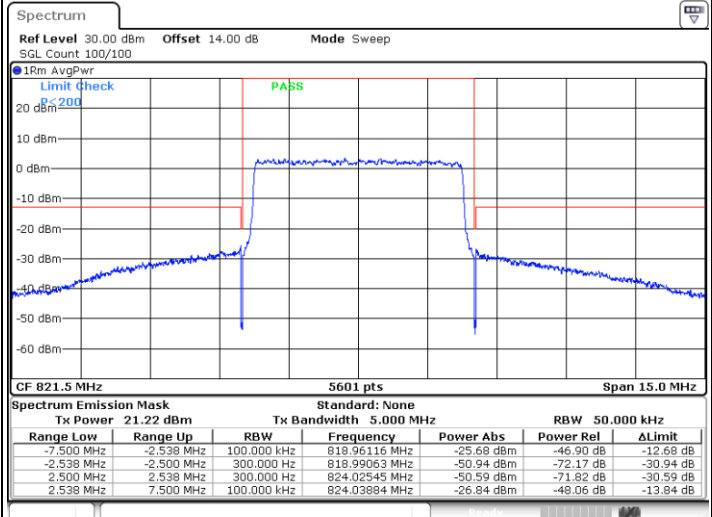
Date: 16.DEC.2019 23:29:36

Lowest Band Edge / Full RB



Date: 16.DEC.2019 23:28:36

Highest Band Edge / Full RB



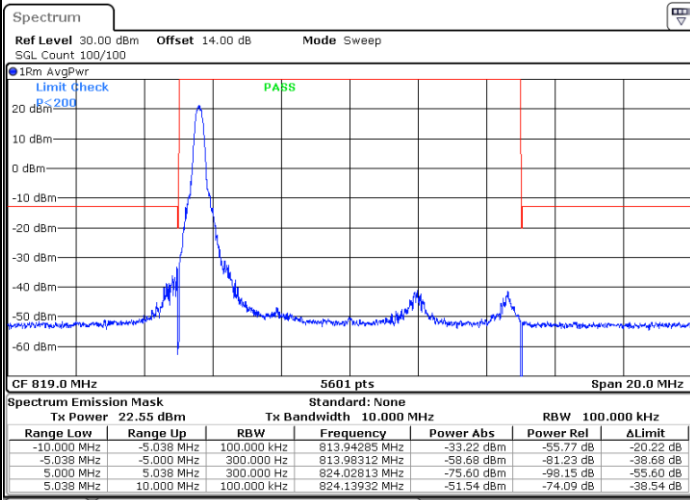
Date: 16.DEC.2019 23:30:36



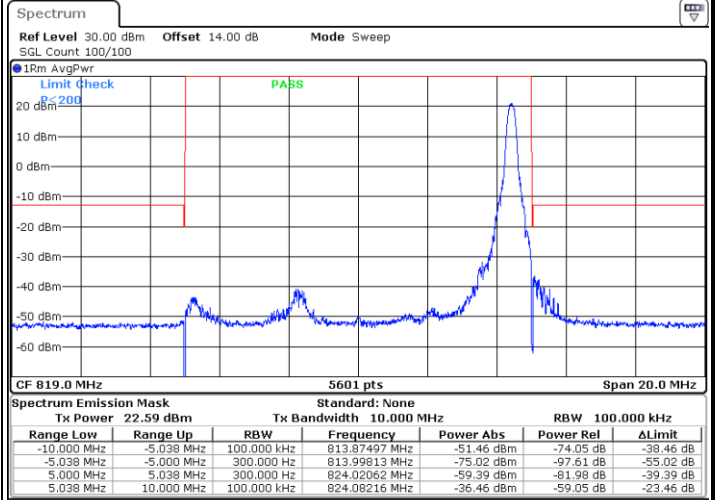
LTE Band 26 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

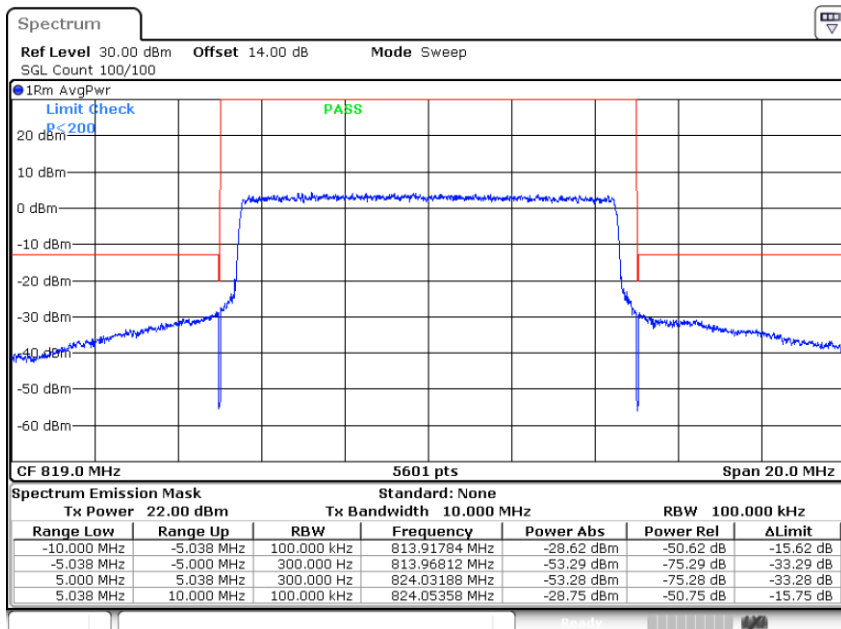


Date: 16.DEC.2019 23:39:36



Date: 16.DEC.2019 23:41:35

Band Edge / Full RB

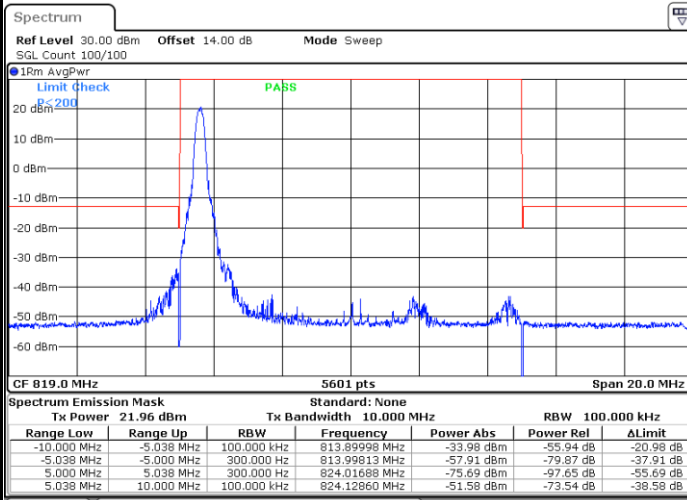


Date: 16.DEC.2019 23:43:34



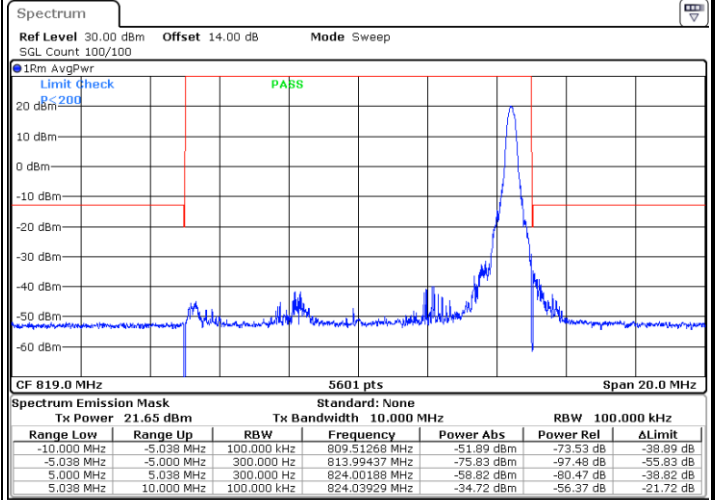
LTE Band 26 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



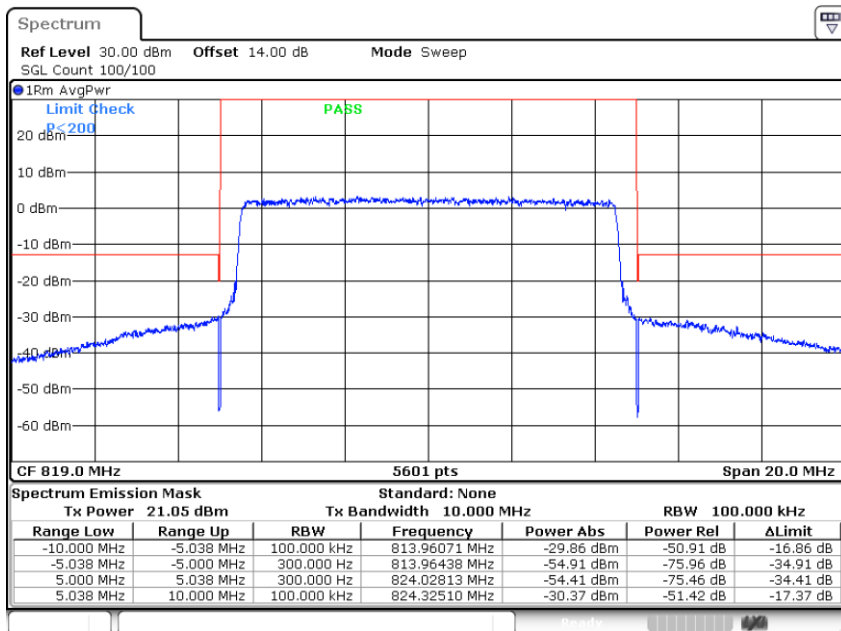
Date: 16.DEC.2019 23:40:35

Highest Band Edge / 1 RB



Date: 16.DEC.2019 23:42:35

Band Edge / Full RB

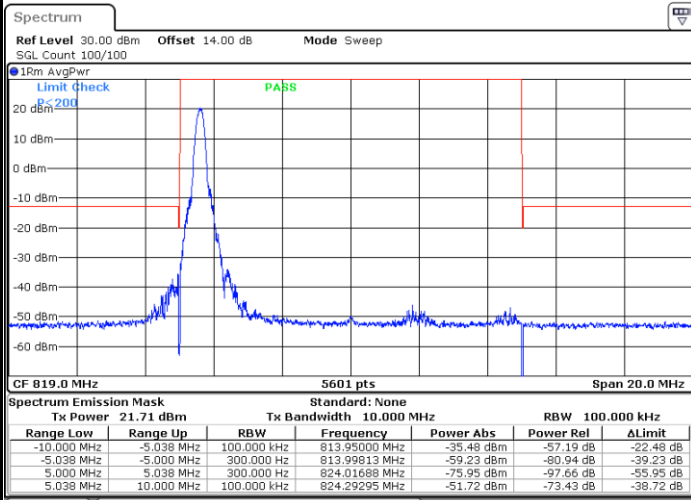


Date: 16.DEC.2019 23:44:34



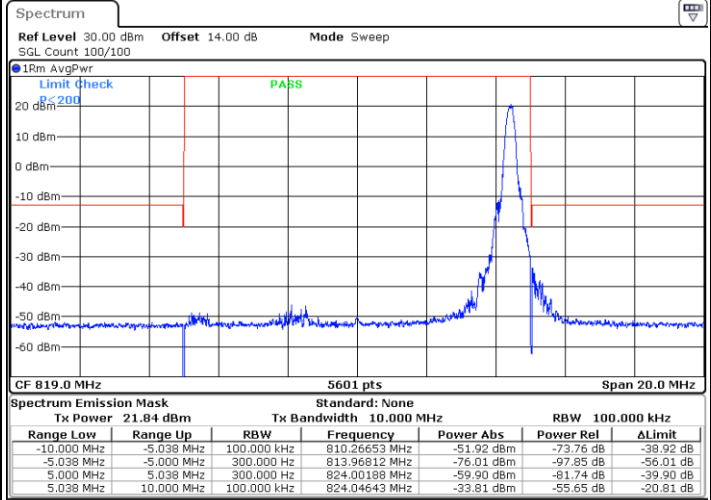
LTE Band 26 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



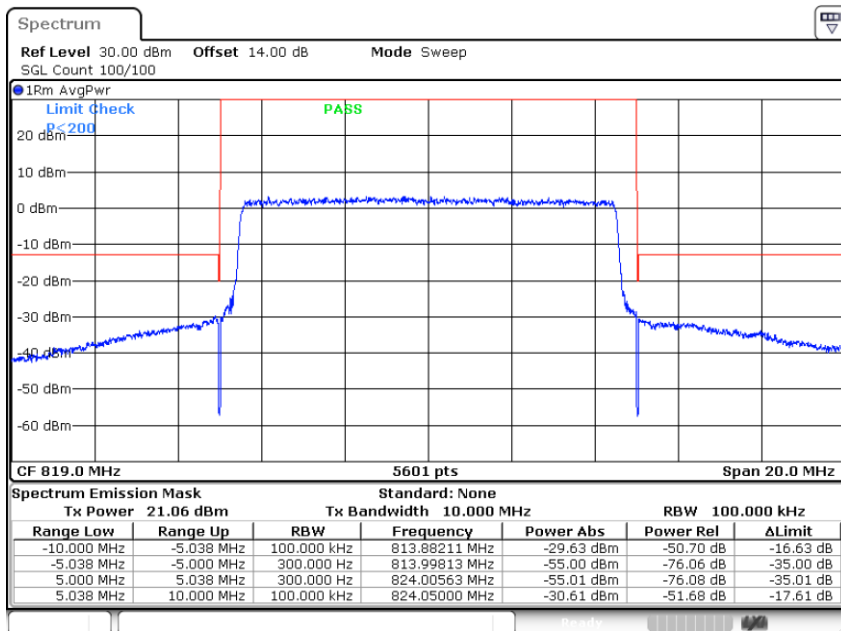
Date: 16.DEC.2019 23:45:34

Highest Band Edge / 1 RB



Date: 16.DEC.2019 23:46:33

Band Edge / Full RB

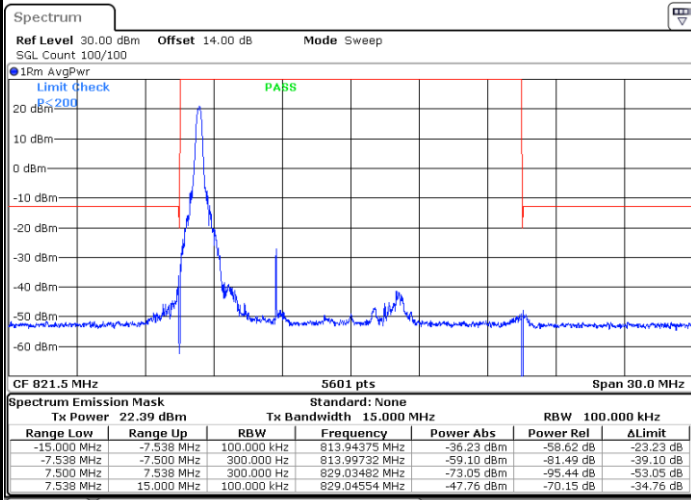


Date: 16.DEC.2019 23:47:33



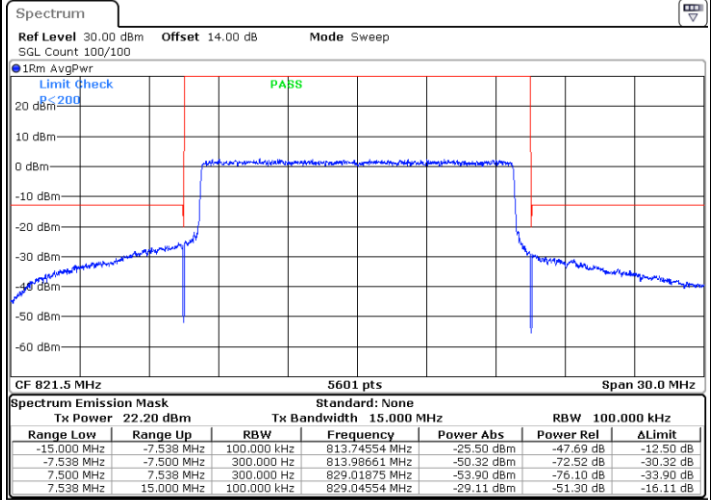
LTE Band 26 / 15MHz QPSK

Lowest Band Edge / 1 RB



Date: 16.DEC.2019 23:48:32

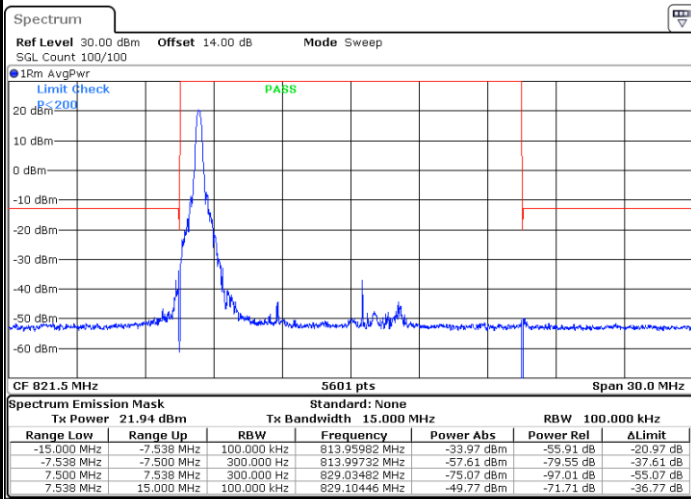
Lowest Band Edge / Full RB



Date: 16.DEC.2019 23:52:30

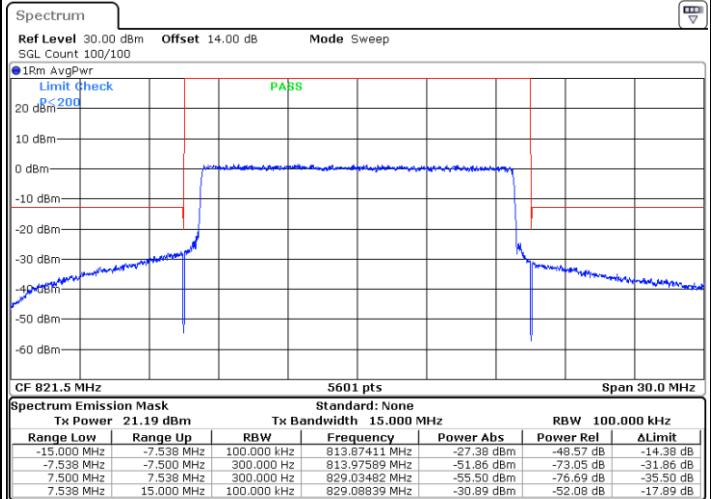
LTE Band 26 / 15MHz 16QAM

Lowest Band Edge / 1 RB

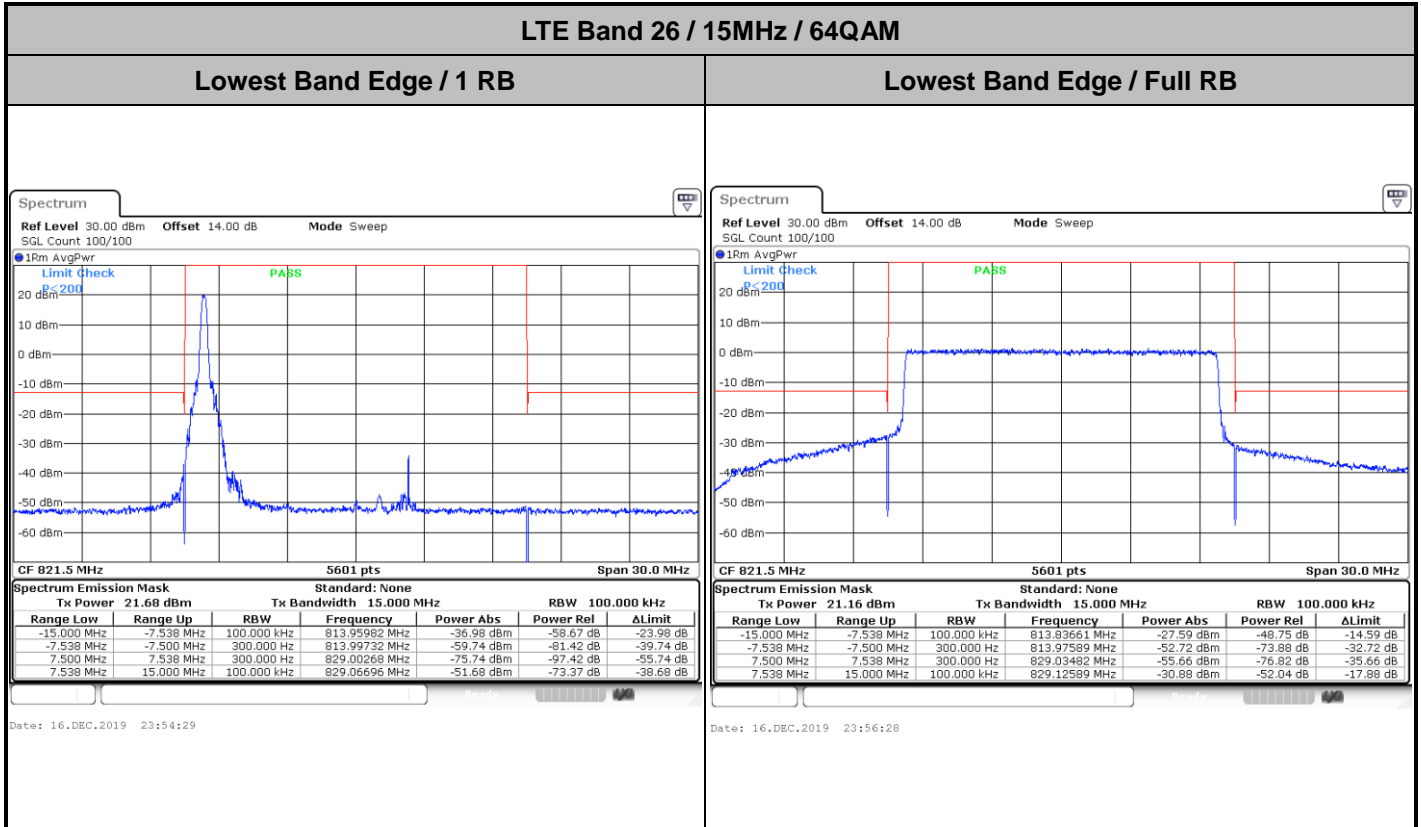


Date: 16.DEC.2019 23:49:32

Lowest Band Edge / Full RB

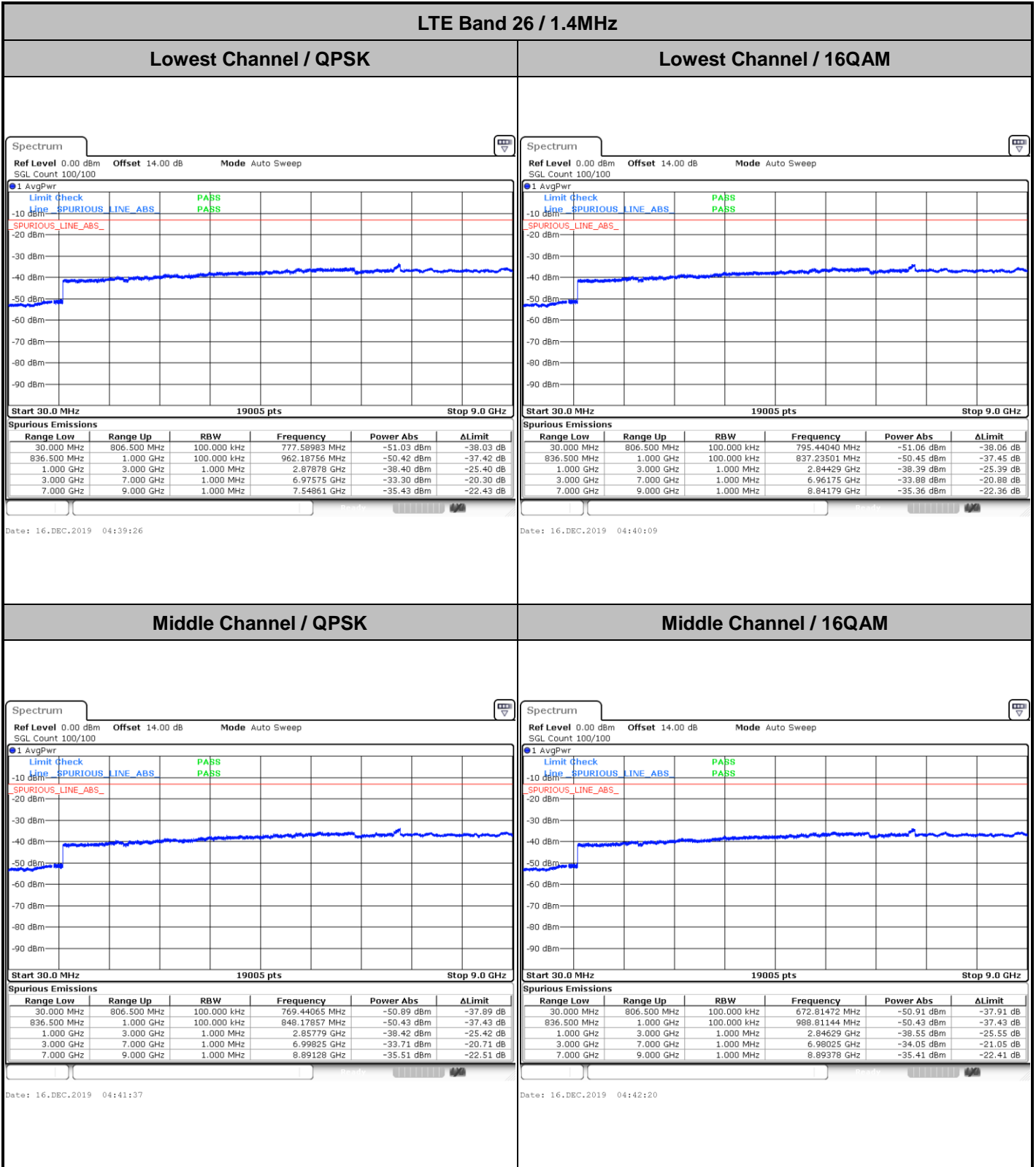


Date: 16.DEC.2019 23:53:30





Conducted Spurious Emission

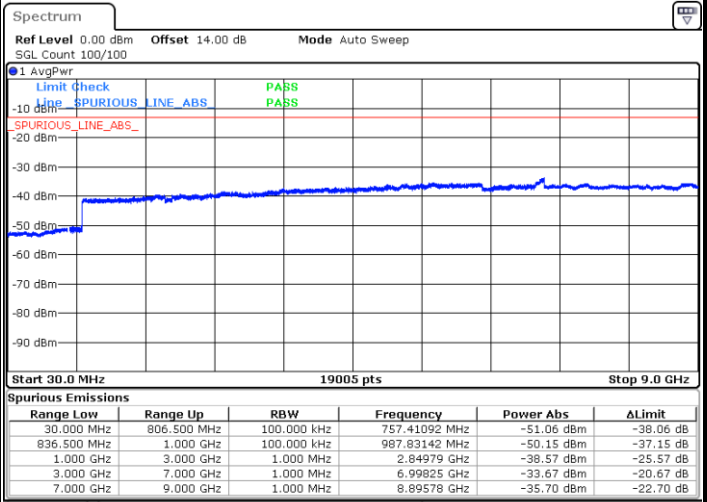
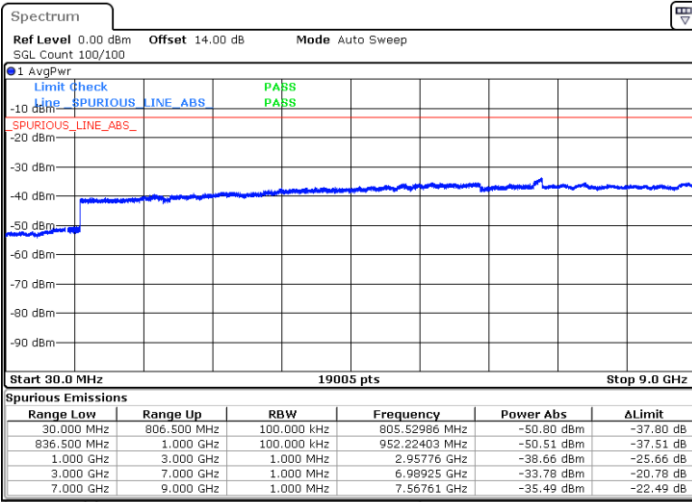




LTE Band 26 / 1.4MHz

Highest Channel / QPSK

Highest Channel / 16QAM



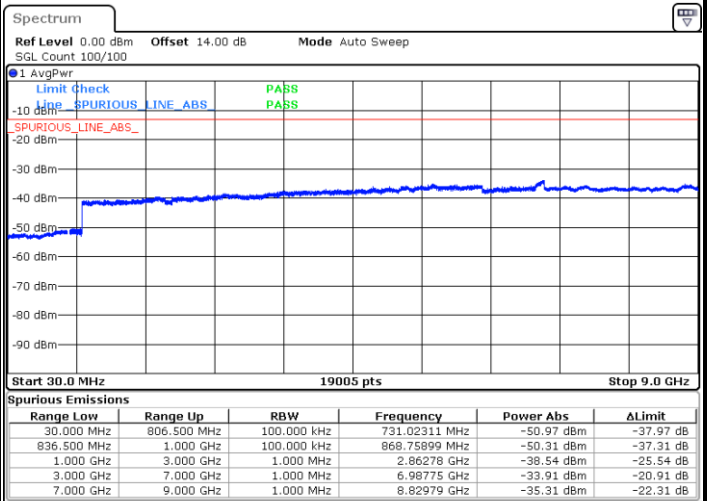
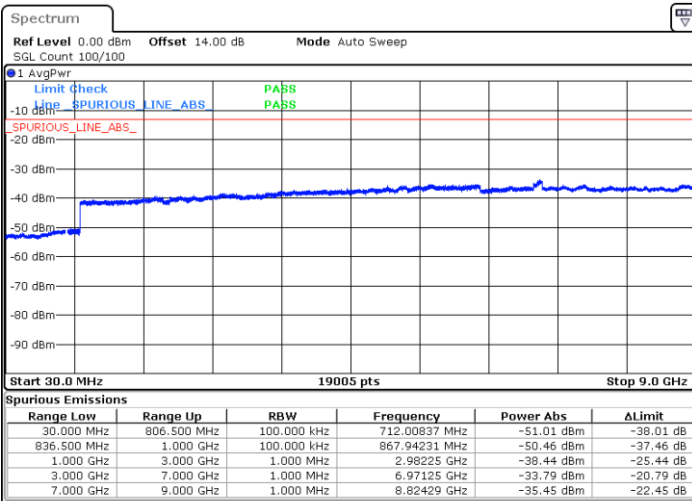
Date: 16.DEC.2019 04:43:48

Date: 16.DEC.2019 04:44:31

LTE Band 26 / 3MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 16.DEC.2019 04:19:02

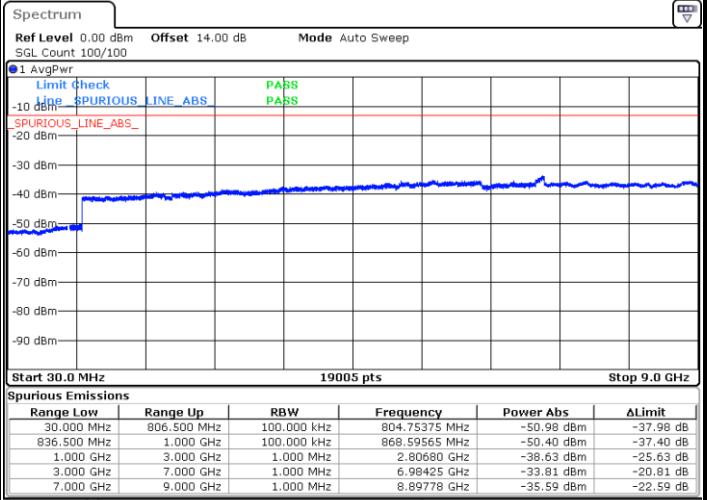
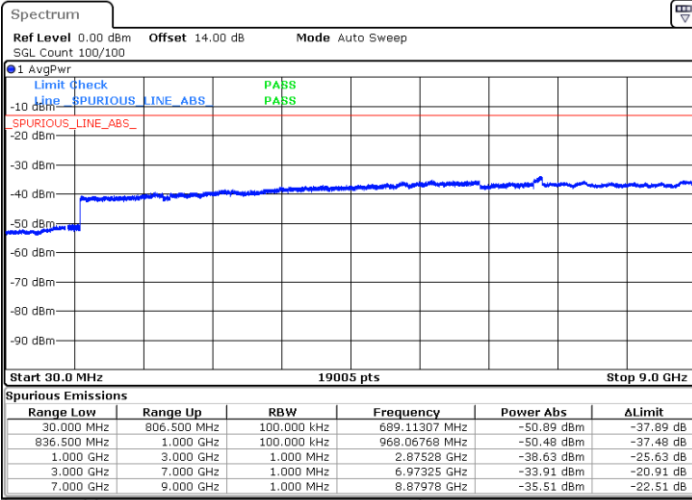
Date: 16.DEC.2019 04:19:45



LTE Band 26 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

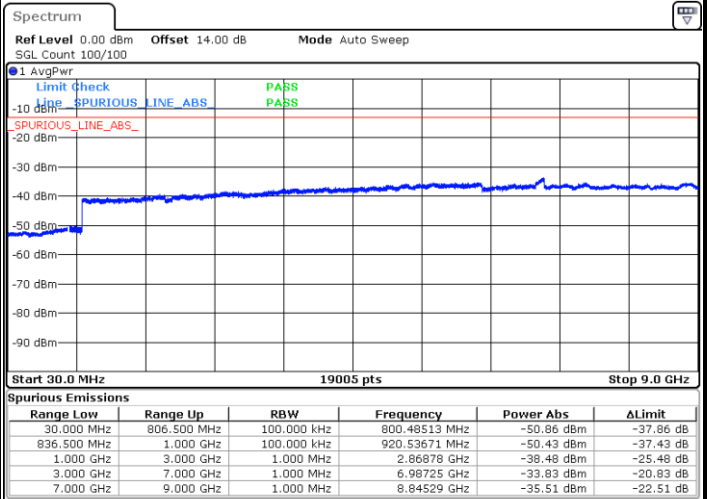
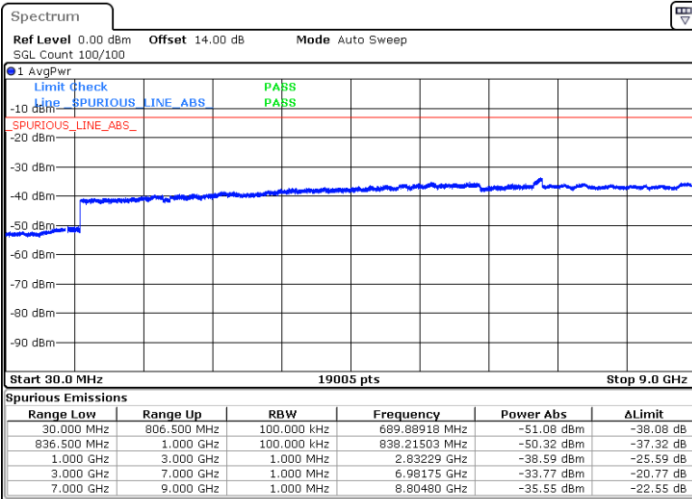


Date: 16.DEC.2019 04:21:13

Date: 16.DEC.2019 04:21:56

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 16.DEC.2019 04:23:24

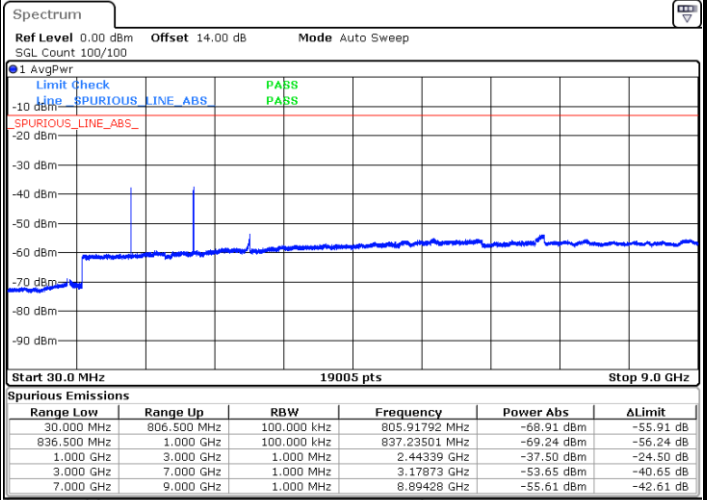
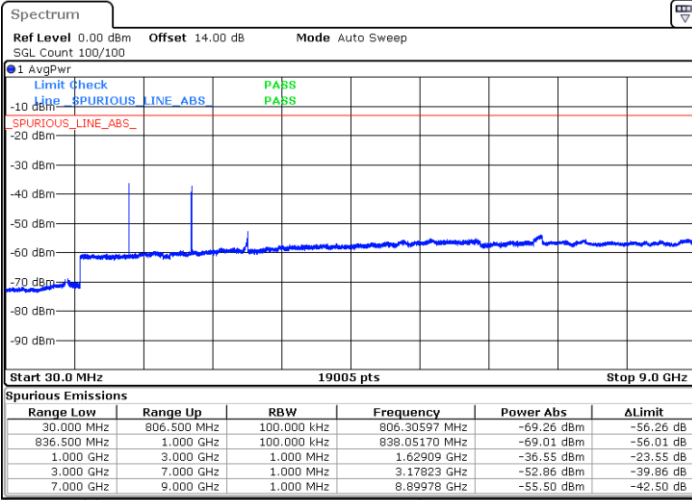
Date: 16.DEC.2019 04:24:08



LTE Band 26 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

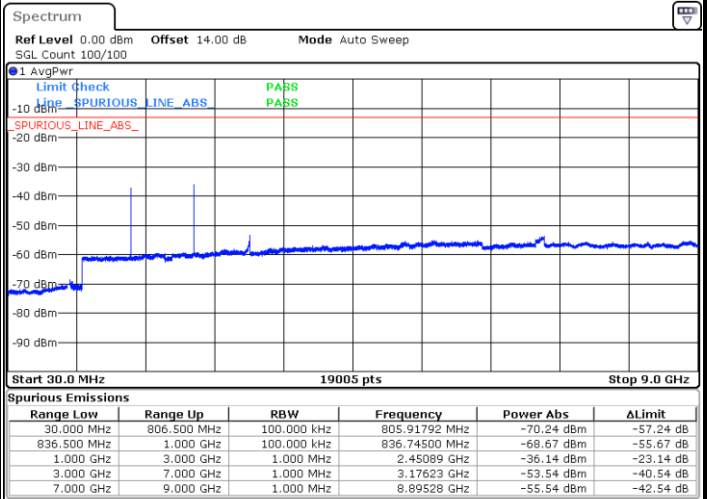
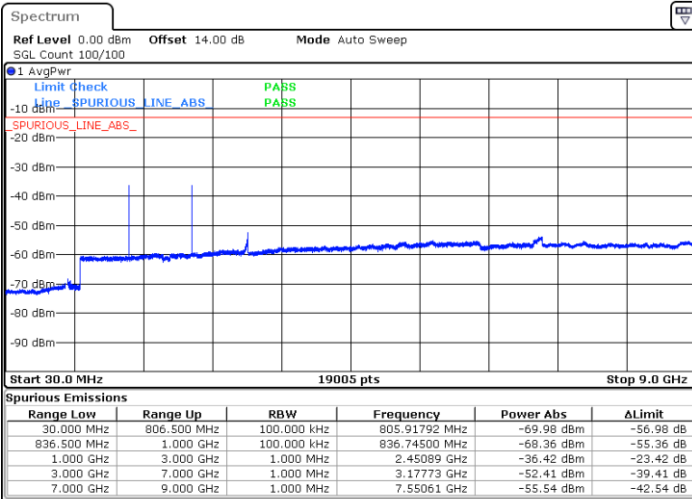


Date: 16.DEC.2019 04:25:35

Date: 16.DEC.2019 04:26:19

Middle Channel / QPSK

Middle Channel / 16QAM



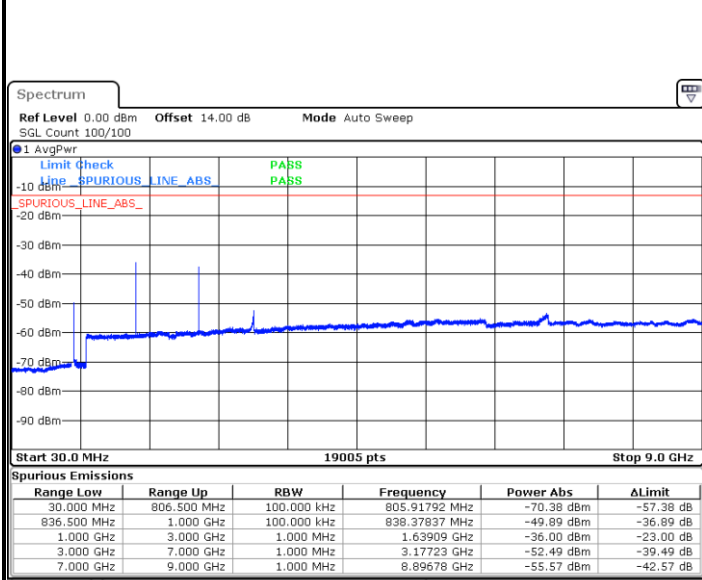
Date: 16.DEC.2019 04:27:48

Date: 16.DEC.2019 04:28:32



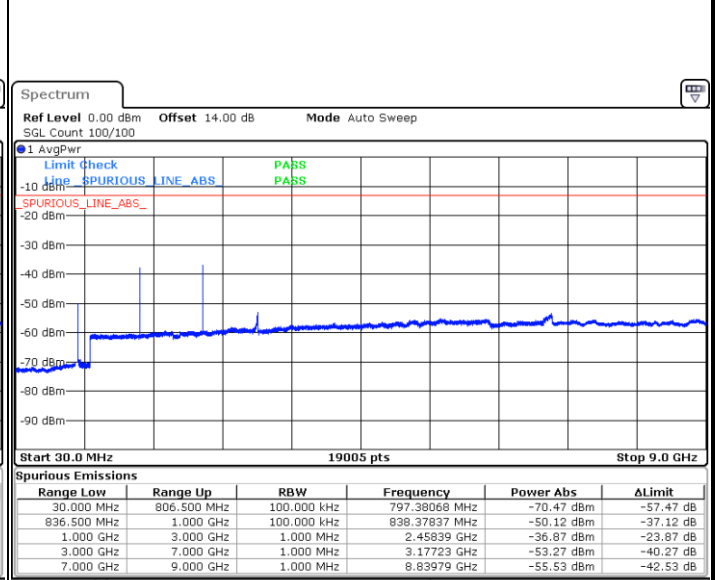
LTE Band 26 / 5MHz

Highest Channel / QPSK



Date: 16.DEC.2019 04:30:00

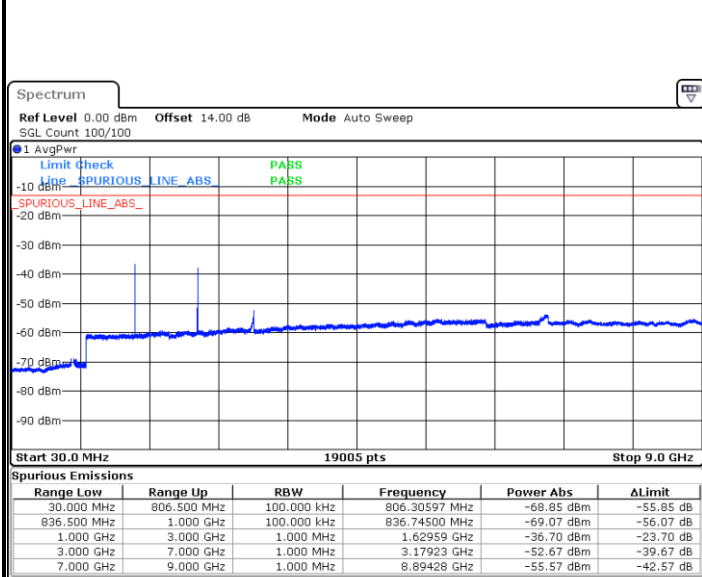
Highest Channel / 16QAM



Date: 16.DEC.2019 04:30:43

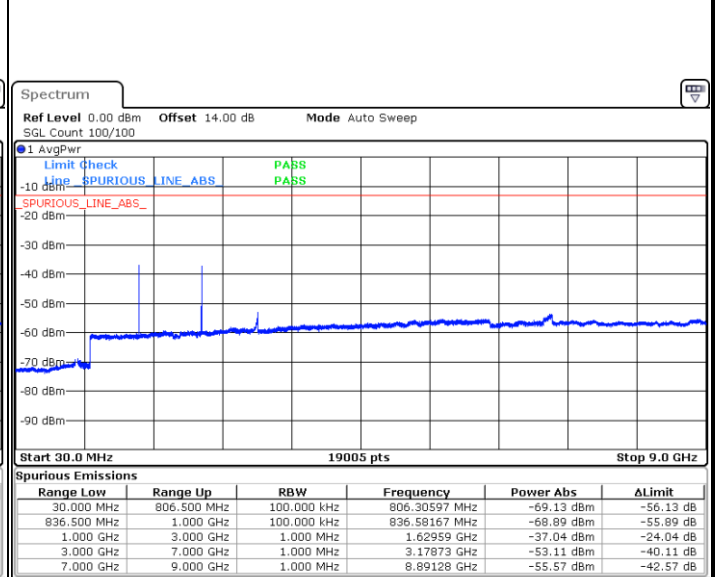
LTE Band 26 / 10MHz

Middle Channel / QPSK

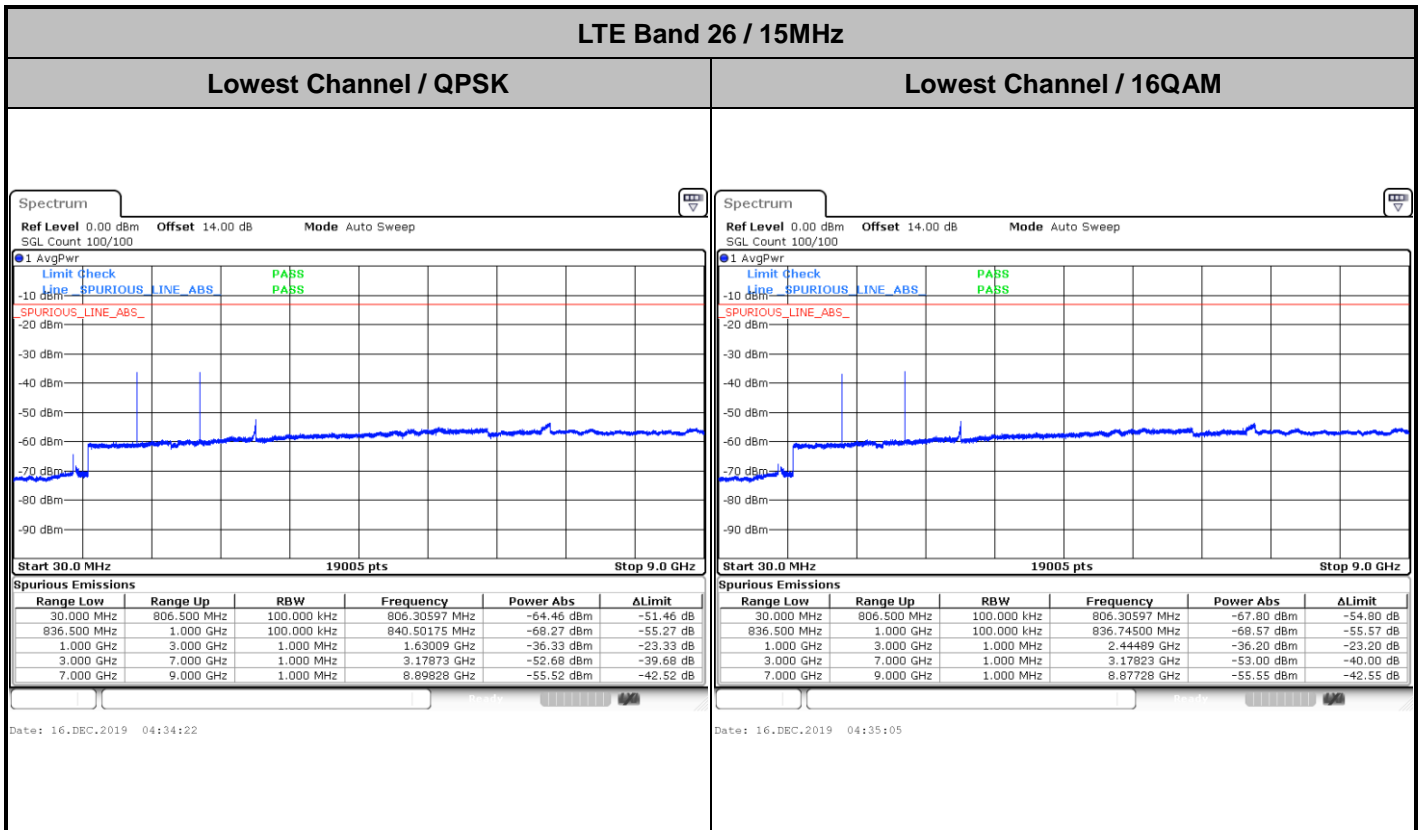


Date: 16.DEC.2019 04:32:11

Middle Channel / 16QAM



Date: 16.DEC.2019 04:32:54

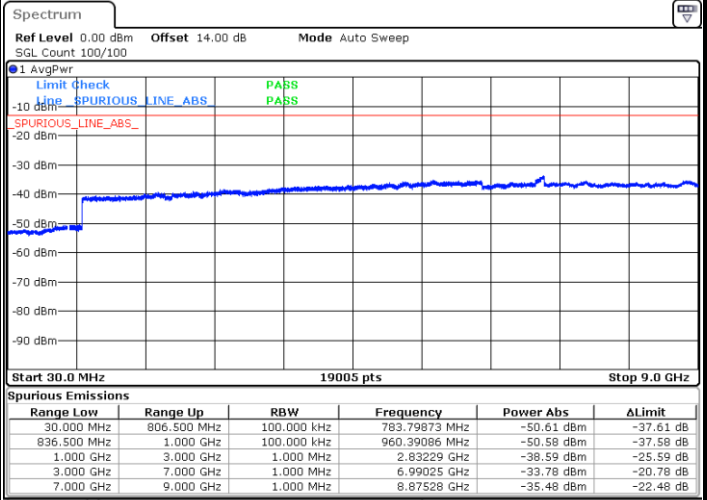
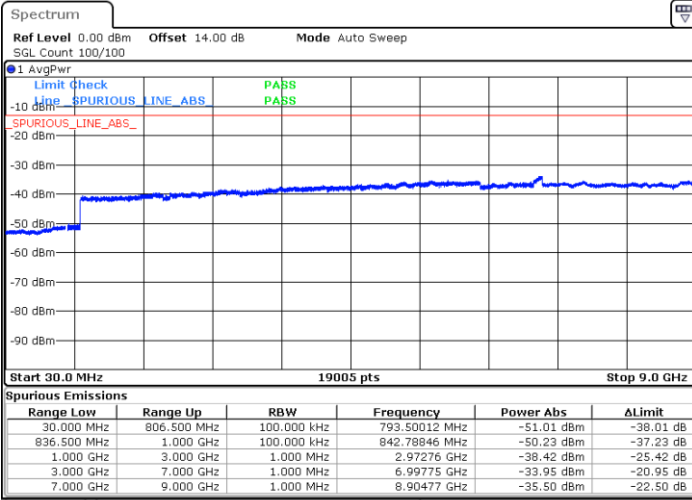




LTE Band 26 / 1.4MHz

Lowest Channel / 64QAM

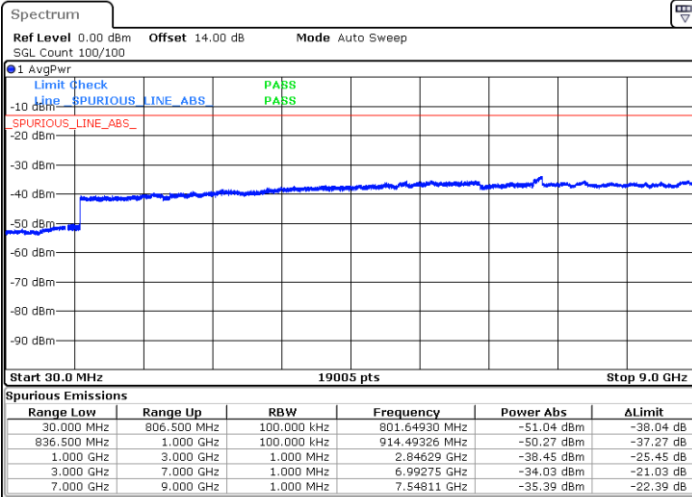
Middle Channel / 64QAM



Date: 16.DEC.2019 04:15:23

Date: 16.DEC.2019 04:16:29

Highest Channel / 64QAM



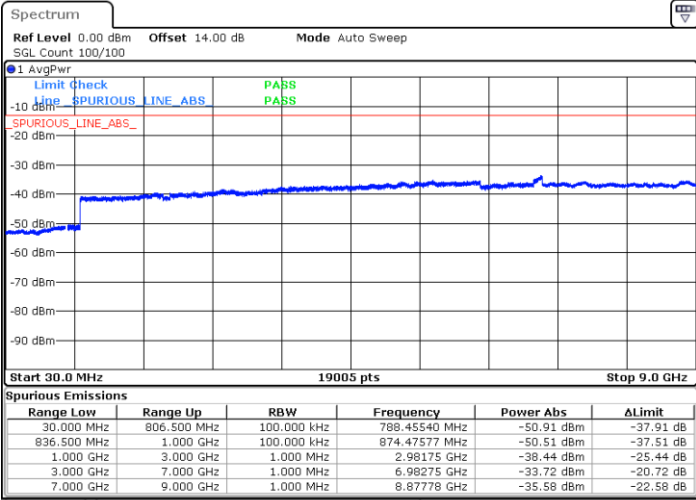
Date: 16.DEC.2019 04:17:34



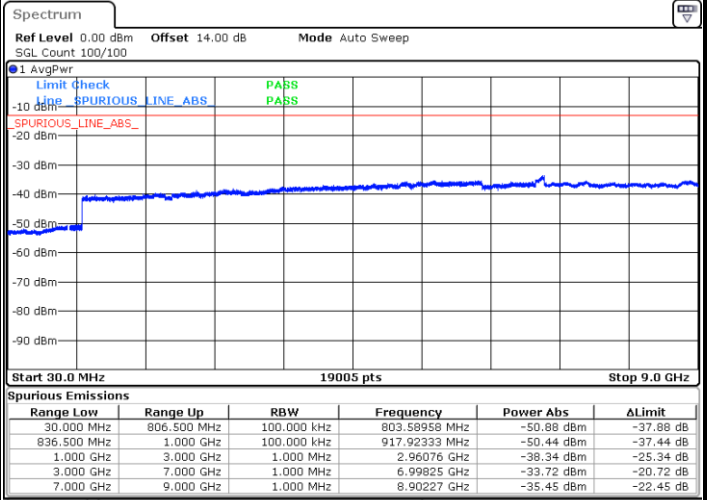
LTE Band 26 / 3MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

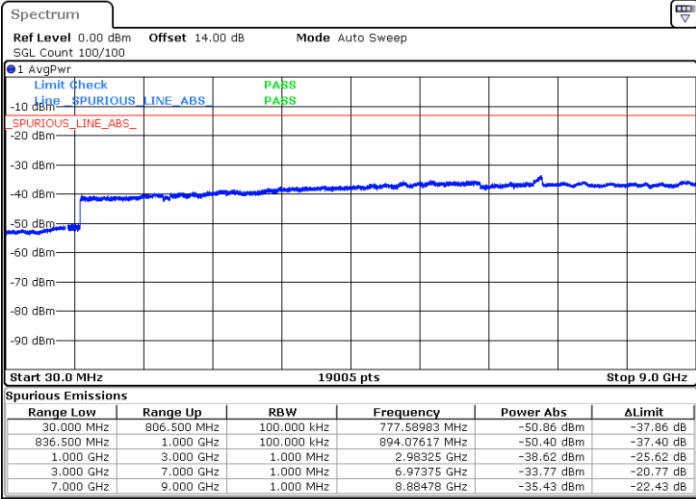


Date: 16.DEC.2019 04:05:07



Date: 16.DEC.2019 04:06:14

Highest Channel / 64QAM



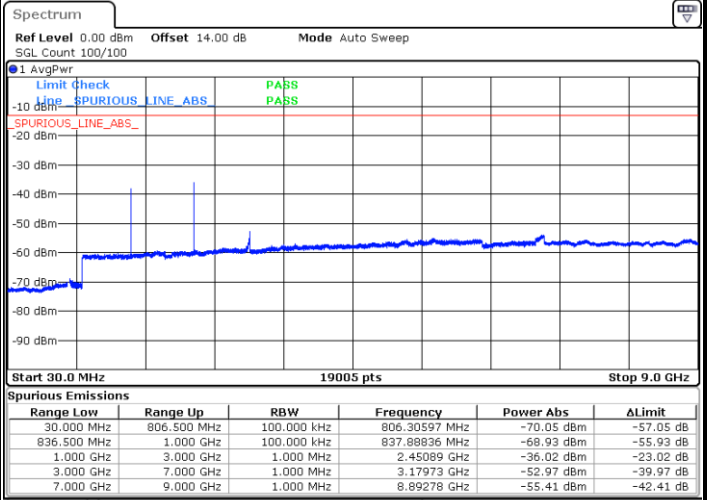
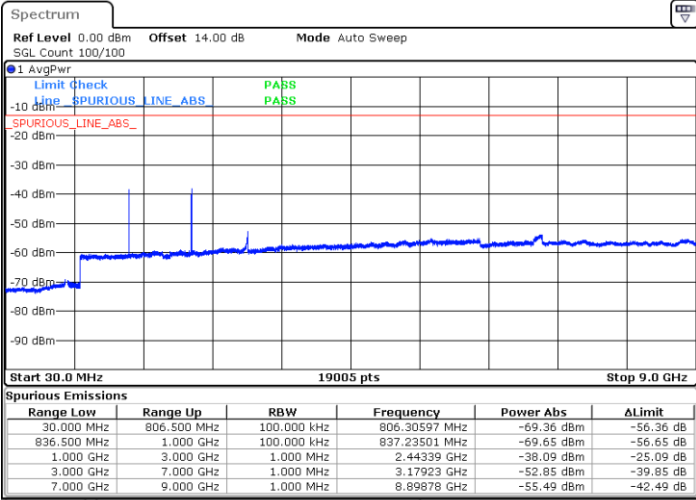
Date: 16.DEC.2019 04:07:19



LTE Band 26 / 5MHz

Lowest Channel / 64QAM

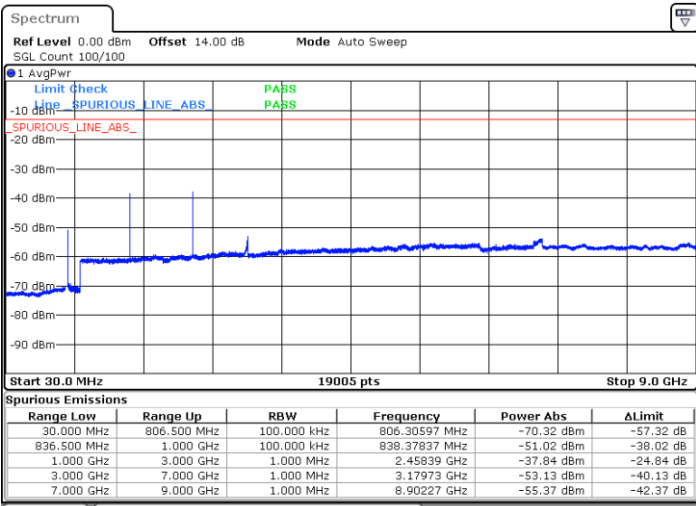
Middle Channel / 64QAM



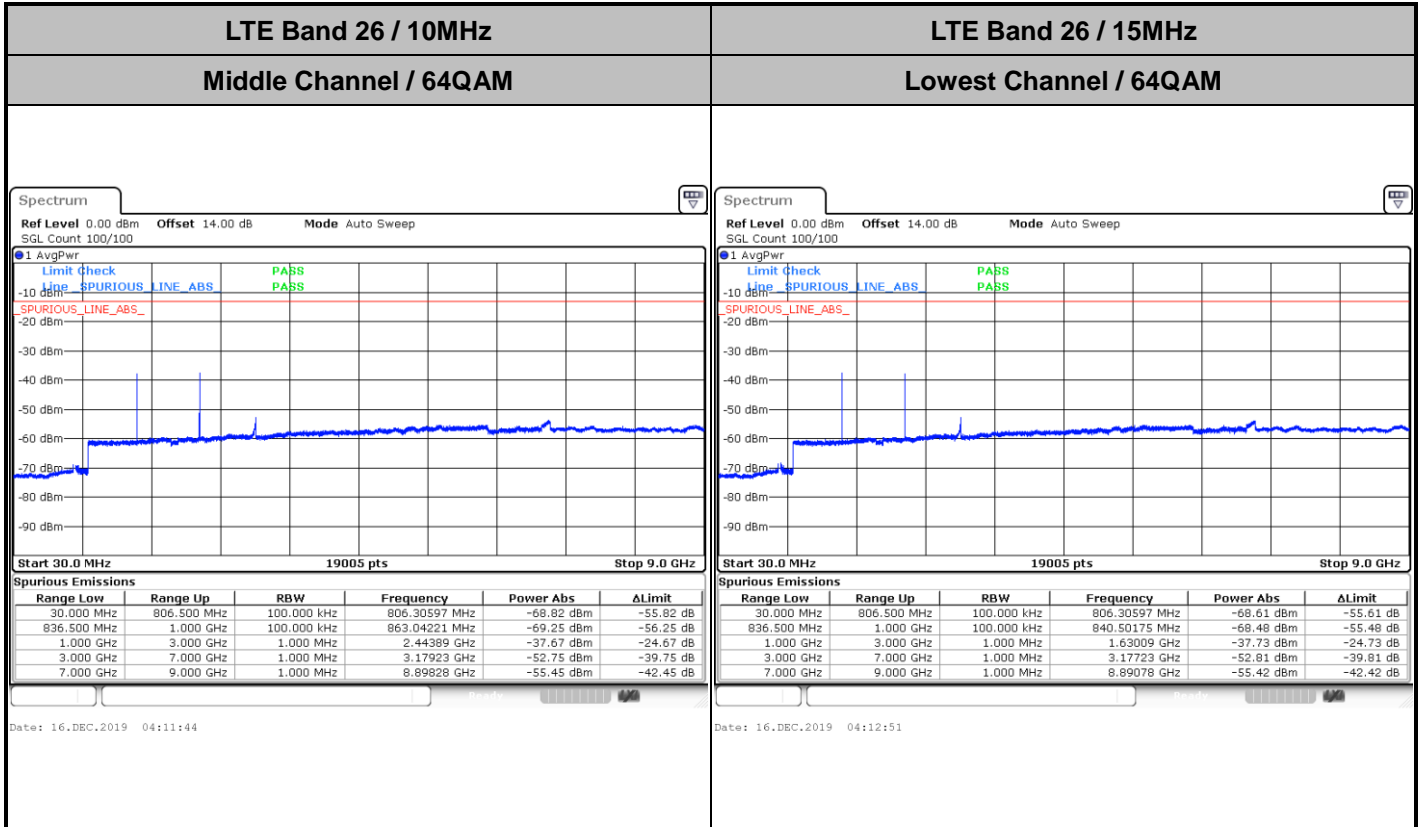
Date: 16.DEC.2019 04:08:26

Date: 16.DEC.2019 04:09:32

Highest Channel / 64QAM



Date: 16.DEC.2019 04:10:38





Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0038	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0022	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0027	
0	Normal Voltage	0.0031	
-10	Normal Voltage	0.0022	
-20	Normal Voltage	0.0007	
-30	Normal Voltage	0.0055	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0041	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Top Antenna:

LTE Band 26 / 1.4MHz / QPSK									
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)
Lowest	1628.14	-69.70	-13	-56.70	-78.90	-72.93	3.98	9.36	H
	2442.21	-66.77	-13	-53.77	-80.29	-70.32	4.85	10.55	H
	3256.28	-66.42	-13	-53.42	-82.07	-71.35	5.50	12.58	H
	1628.14	-69.62	-13	-56.62	-78.37	-72.85	3.98	9.36	V
	2442.21	-66.51	-13	-53.51	-80.04	-70.06	4.85	10.55	V
	3256.28	-66.11	-13	-53.11	-81.89	-71.04	5.50	12.58	V
Middle	1636.74	-69.78	-13	-56.78	-78.98	-73.03	4.00	9.40	H
	2455.11	-67.33	-13	-54.33	-80.83	-70.90	4.88	10.60	H
	3273.48	-66.25	-13	-53.25	-81.87	-71.18	5.52	12.60	H
	1636.74	-70.21	-13	-57.21	-78.96	-73.46	4.00	9.40	V
	2455.11	-66.95	-13	-53.95	-80.42	-70.52	4.88	10.60	V
	3273.48	-65.78	-13	-52.78	-81.50	-70.71	5.52	12.60	V
Highest	1645.34	-69.48	-13	-56.48	-78.55	-72.65	4.10	9.42	H
	2468.01	-66.41	-13	-53.41	-79.93	-69.99	4.90	10.63	H
	3290.68	-65.81	-13	-52.81	-81.39	-70.73	5.55	12.62	H
	1645.34	-70.21	-13	-57.21	-78.91	-73.38	4.10	9.42	V
	2468.01	-66.57	-13	-53.57	-80.06	-70.15	4.90	10.63	V
	3290.68	-65.98	-13	-52.98	-81.63	-70.90	5.55	12.62	V

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



LTE Band 26 / 3MHz / QPSK									
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)
Lowest	1628.3	-69.86	-13	-56.86	-79.06	-73.09	3.98	9.36	H
	2442.45	-67.03	-13	-54.03	-80.55	-70.58	4.85	10.55	H
	3256.6	-66.12	-13	-53.12	-81.77	-71.05	5.50	12.58	H
	1628.3	-70.01	-13	-57.01	-78.76	-73.24	3.98	9.36	V
	2442.45	-67.10	-13	-54.10	-80.63	-70.65	4.85	10.55	V
	3256.6	-66.16	-13	-53.16	-81.94	-71.09	5.50	12.58	V
Middle	1635.3	-69.88	-13	-56.88	-79.08	-73.13	4.00	9.40	H
	2452.95	-67.09	-13	-54.09	-80.61	-70.66	4.88	10.60	H
	3270.6	-66.46	-13	-53.46	-82.08	-71.39	5.52	12.60	H
	1635.3	-70.17	-13	-57.17	-78.92	-73.42	4.00	9.40	V
	2452.95	-66.89	-13	-53.89	-80.42	-70.46	4.88	10.60	V
	3270.6	-65.81	-13	-52.81	-81.53	-70.74	5.52	12.60	V
Highest	1642.3	-69.61	-13	-56.61	-78.68	-72.78	4.10	9.42	H
	2463.45	-66.81	-13	-53.81	-80.31	-70.39	4.90	10.63	H
	3284.6	-66.43	-13	-53.43	-82.05	-71.35	5.55	12.62	H
	1642.3	-70.26	-13	-57.26	-78.96	-73.43	4.10	9.42	V
	2463.45	-66.67	-13	-53.67	-80.14	-70.25	4.90	10.63	V
	3284.6	-66.17	-13	-53.17	-81.89	-71.09	5.55	12.62	V

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



LTE Band 26 / 5MHz / QPSK									
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)
Lowest	1628.5	-69.87	-13	-56.87	-79.07	-73.10	3.98	9.36	H
	2442.75	-67.22	-13	-54.22	-80.74	-70.77	4.85	10.55	H
	3257	-66.26	-13	-53.26	-81.91	-71.19	5.50	12.58	H
	1628.5	-70.30	-13	-57.30	-79.05	-73.53	3.98	9.36	V
	2442.75	-66.84	-13	-53.84	-80.37	-70.39	4.85	10.55	V
	3257	-66.13	-13	-53.13	-81.91	-71.06	5.50	12.58	V
Middle	1633.5	-69.66	-13	-56.66	-78.86	-72.91	4.00	9.40	H
	2450.25	-67.08	-13	-54.08	-80.60	-70.65	4.88	10.60	H
	3267	-66.33	-13	-53.33	-81.98	-71.26	5.52	12.60	H
	1633.5	-70.07	-13	-57.07	-78.82	-73.32	4.00	9.40	V
	2450.25	-66.99	-13	-53.99	-80.52	-70.56	4.88	10.60	V
	3267	-66.00	-13	-53.00	-81.78	-70.93	5.52	12.60	V
Highest	1638.5	-69.73	-13	-56.73	-78.80	-72.90	4.10	9.42	H
	2457.75	-66.85	-13	-53.85	-80.35	-70.43	4.90	10.63	H
	3277	-66.06	-13	-53.06	-81.68	-70.98	5.55	12.62	H
	1638.5	-69.90	-13	-56.90	-78.60	-73.07	4.10	9.42	V
	2457.75	-67.07	-13	-54.07	-80.54	-70.65	4.90	10.63	V
	3277	-66.31	-13	-53.31	-82.03	-71.23	5.55	12.62	V

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

LTE Band 26 / 10MHz / QPSK									
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	1629	-69.46	-13	-56.46	-78.66	-72.71	4.00	9.40	H
	2443.5	-67.18	-13	-54.18	-80.70	-70.75	4.88	10.60	H
	3258	-65.86	-13	-52.86	-81.51	-70.79	5.52	12.60	H
	1629	-70.20	-13	-57.20	-78.95	-73.45	4.00	9.40	V
	2443.5	-66.20	-13	-53.20	-79.73	-69.77	4.88	10.60	V
	3258	-66.16	-13	-53.16	-81.94	-71.09	5.52	12.60	V

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



Bottom Antenna:

LTE Band 26 / 1.4MHz / QPSK									
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)
Lowest	1628.14	-69.69	-13	-56.69	-78.89	-72.92	3.98	9.36	H
	2442.21	-64.13	-13	-51.13	-77.65	-67.68	4.85	10.55	H
	3256.28	-66.40	-13	-53.40	-82.05	-71.33	5.50	12.58	H
	1628.14	-69.79	-13	-56.79	-78.54	-73.02	3.98	9.36	V
	2442.21	-67.04	-13	-54.04	-80.57	-70.59	4.85	10.55	V
	3256.28	-65.87	-13	-52.87	-81.65	-70.80	5.50	12.58	V
Middle	1636.74	-69.85	-13	-56.85	-79.05	-73.10	4.00	9.40	H
	2455.11	-64.31	-13	-51.31	-77.81	-67.88	4.88	10.60	H
	3273.48	-66.04	-13	-53.04	-81.66	-70.97	5.52	12.60	H
	1636.74	-69.97	-13	-56.97	-78.72	-73.22	4.00	9.40	V
	2455.11	-67.02	-13	-54.02	-80.49	-70.59	4.88	10.60	V
	3273.48	-66.40	-13	-53.40	-82.12	-71.33	5.52	12.60	V
Highest	1645.34	-69.56	-13	-56.56	-78.26	-72.73	4.10	9.42	H
	2468.01	-63.21	-13	-50.21	-76.70	-66.79	4.90	10.63	H
	3290.68	-66.16	-13	-53.16	-81.81	-71.08	5.55	12.62	H
	1645.34	-70.25	-13	-57.25	-78.95	-73.42	4.10	9.42	V
	2468.01	-67.21	-13	-54.21	-80.70	-70.79	4.90	10.63	V
	3290.68	-66.02	-13	-53.02	-81.67	-70.94	5.55	12.62	V

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



LTE Band 26 / 3MHz / QPSK									
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)
Lowest	1628.3	-69.60	-13	-56.60	-78.80	-72.83	3.98	9.36	H
	2442.45	-63.95	-13	-50.95	-77.47	-67.50	4.85	10.55	H
	3256.6	-66.01	-13	-53.01	-81.66	-70.94	5.50	12.58	H
	1628.3	-69.90	-13	-56.90	-78.65	-73.13	3.98	9.36	V
	2442.45	-66.63	-13	-53.63	-80.16	-70.18	4.85	10.55	V
	3256.6	-65.83	-13	-52.83	-81.61	-70.76	5.50	12.58	V
Middle	1635.3	-69.85	-13	-56.85	-79.05	-73.10	4.00	9.40	H
	2452.95	-62.87	-13	-49.87	-76.39	-66.44	4.88	10.60	H
	3270.6	-66.27	-13	-53.27	-81.89	-71.20	5.52	12.60	H
	1635.3	-70.24	-13	-57.24	-78.99	-73.49	4.00	9.40	V
	2452.95	-66.97	-13	-53.97	-80.50	-70.54	4.88	10.60	V
	3270.6	-66.14	-13	-53.14	-81.86	-71.07	5.52	12.60	V
Highest	1642.3	-69.83	-13	-56.83	-78.90	-73.00	4.10	9.42	H
	2463.45	-64.07	-13	-51.07	-77.57	-67.65	4.90	10.63	H
	3284.6	-66.44	-13	-53.44	-82.06	-71.36	5.55	12.62	H
	1642.3	-70.43	-13	-57.43	-79.13	-73.60	4.10	9.42	V
	2463.45	-67.37	-13	-54.37	-80.84	-70.95	4.90	10.63	V
	3284.6	-66.10	-13	-53.10	-81.82	-71.02	5.55	12.62	V

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



LTE Band 26 / 5MHz / QPSK									
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)
Lowest	1628.5	-69.74	-13	-56.74	-78.94	-72.97	3.98	9.36	H
	2442.75	-65.10	-13	-52.10	-78.62	-68.65	4.85	10.55	H
	3257	-65.71	-13	-52.71	-81.36	-70.64	5.50	12.58	H
	1628.5	-70.14	-13	-57.14	-78.89	-73.37	3.98	9.36	V
	2442.75	-67.08	-13	-54.08	-80.61	-70.63	4.85	10.55	V
	3257	-66.37	-13	-53.37	-82.15	-71.30	5.50	12.58	V
Middle	1633.5	-69.64	-13	-56.64	-78.84	-72.89	4.00	9.40	H
	2450.25	-65.21	-13	-52.21	-78.73	-68.78	4.88	10.60	H
	3267	-66.22	-13	-53.22	-81.87	-71.15	5.52	12.60	H
	1633.5	-70.21	-13	-57.21	-78.96	-73.46	4.00	9.40	V
	2450.25	-66.49	-13	-53.49	-80.02	-70.06	4.88	10.60	V
	3267	-66.06	-13	-53.06	-81.84	-70.99	5.52	12.60	V
Highest	1638.5	-70.01	-13	-57.01	-79.08	-73.18	4.10	9.42	H
	2457.75	-64.04	-13	-51.04	-77.54	-67.62	4.90	10.63	H
	3277	-65.91	-13	-52.91	-81.53	-70.83	5.55	12.62	H
	1638.5	-70.21	-13	-57.21	-78.91	-73.38	4.10	9.42	V
	2457.75	-67.35	-13	-54.35	-80.82	-70.93	4.90	10.63	V
	3277	-65.94	-13	-52.94	-81.66	-70.86	5.55	12.62	V

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

LTE Band 26 / 10MHz / QPSK									
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	1629	-69.84	-13	-56.84	-79.04	-73.09	4.00	9.40	H
	2443.5	-65.26	-13	-52.26	-78.78	-68.83	4.88	10.60	H
	3258	-66.09	-13	-53.09	-81.74	-71.02	5.52	12.60	H
	1629	-70.06	-13	-57.06	-78.81	-73.31	4.00	9.40	V
	2443.5	-66.93	-13	-53.93	-80.46	-70.50	4.88	10.60	V
	3258	-65.96	-13	-52.96	-81.74	-70.89	5.52	12.60	V

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