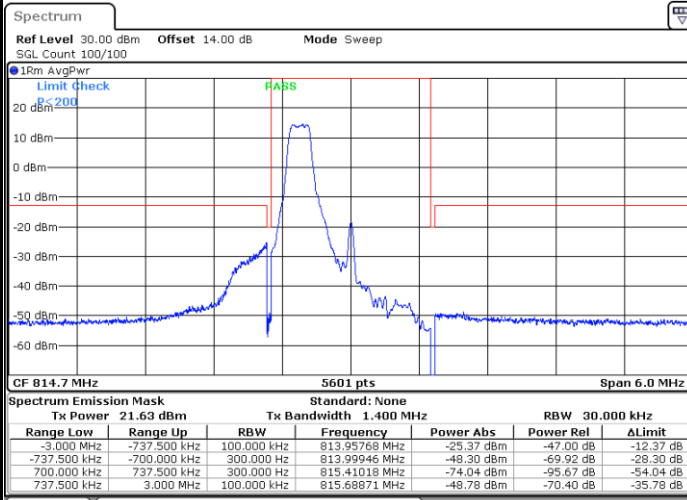




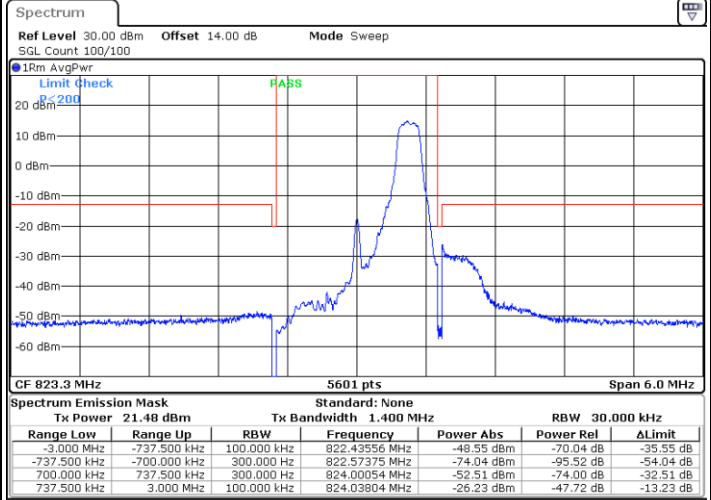
LTE Band 26 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



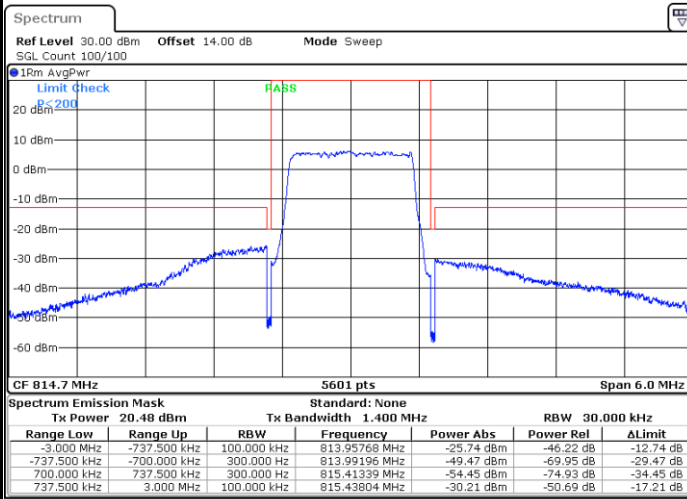
Date: 28.NOV.2019 22:29:09

Highest Band Edge / 1 RB



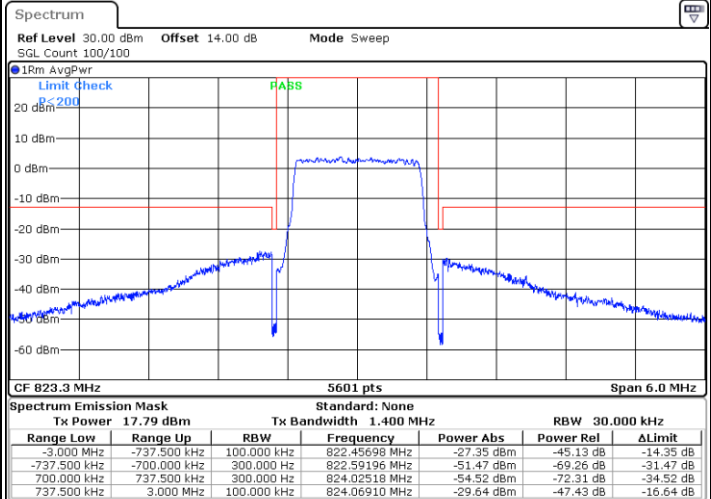
Date: 28.NOV.2019 22:35:00

Lowest Band Edge / Full RB



Date: 28.NOV.2019 22:21:57

Highest Band Edge / Full RB

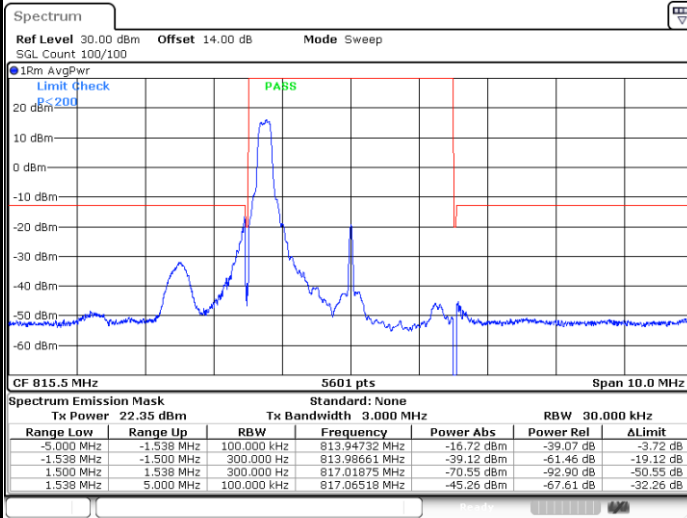


Date: 28.NOV.2019 22:07:53



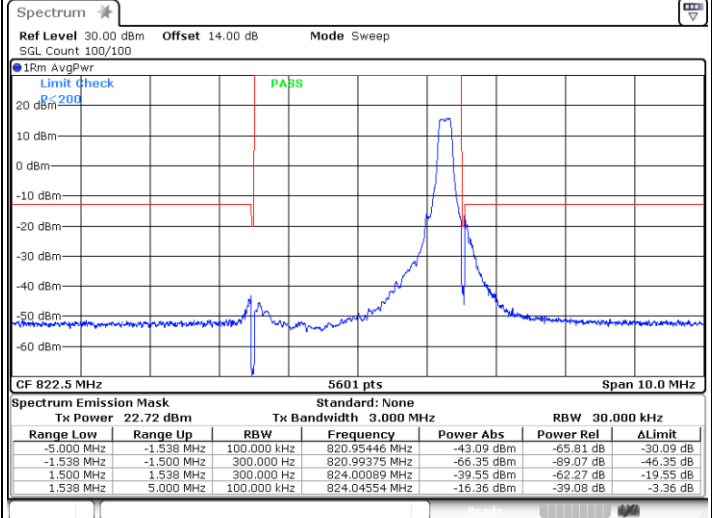
LTE Band 26 / 3MHz / QPSK

Lowest Band Edge / 1RB



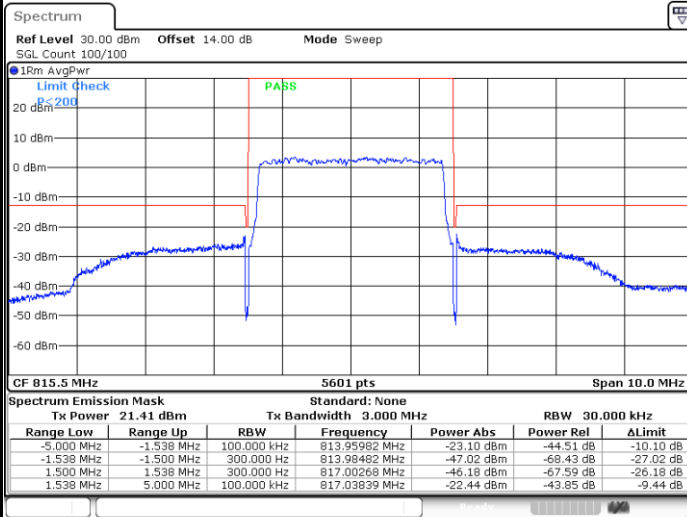
Date: 28.NOV.2019 21:31:13

Highest Band Edge / 1 RB



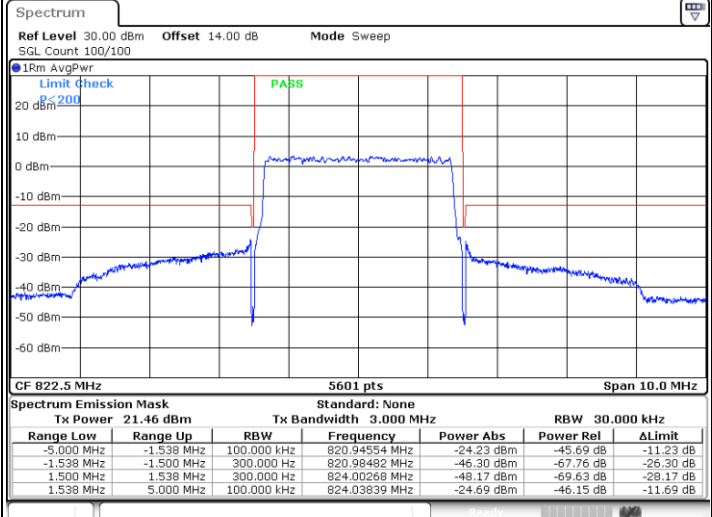
Date: 30.NOV.2019 01:29:09

Lowest Band Edge / Full RB



Date: 28.NOV.2019 21:36:19

Highest Band Edge / Full RB

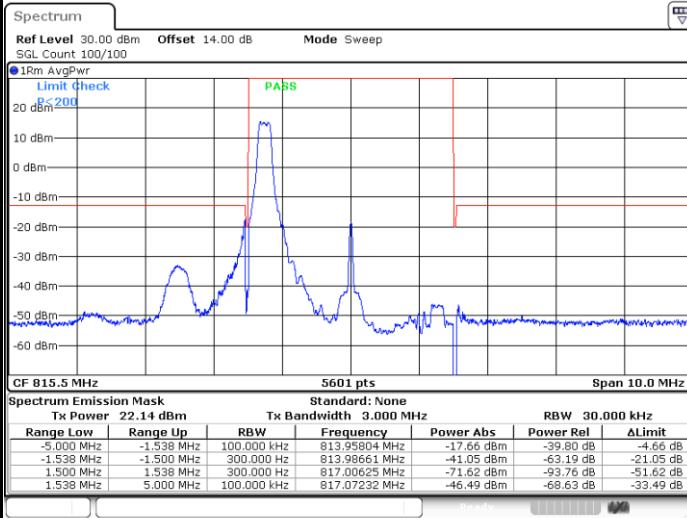


Date: 28.NOV.2019 21:40:20



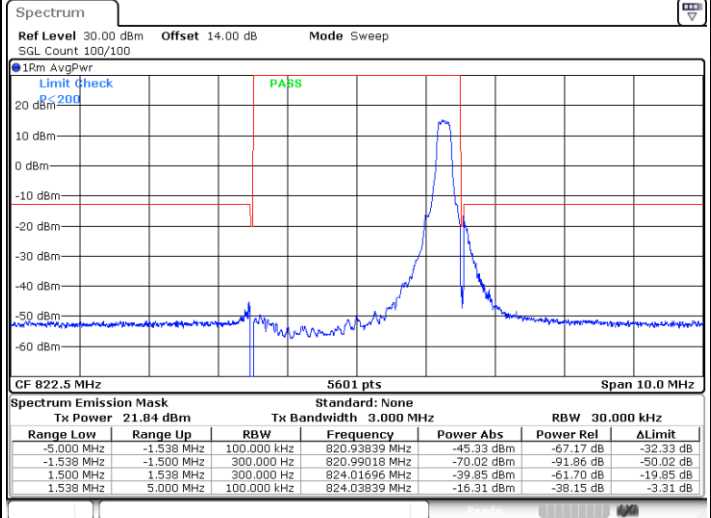
LTE Band 26 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



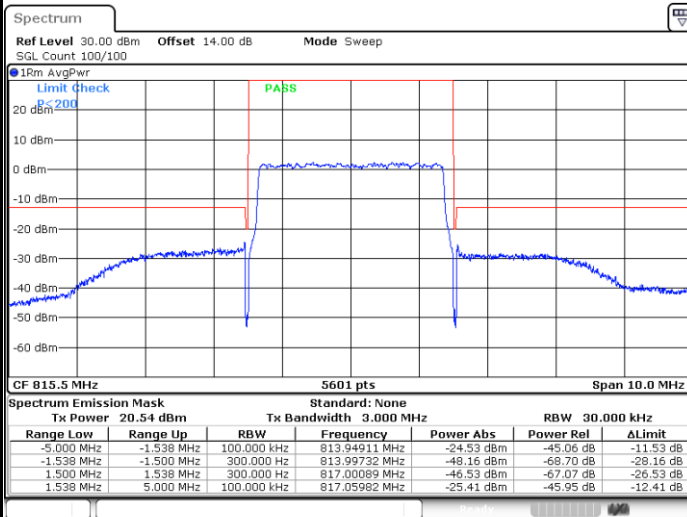
Date: 30.NOV.2019 01:27:38

Highest Band Edge / 1 RB



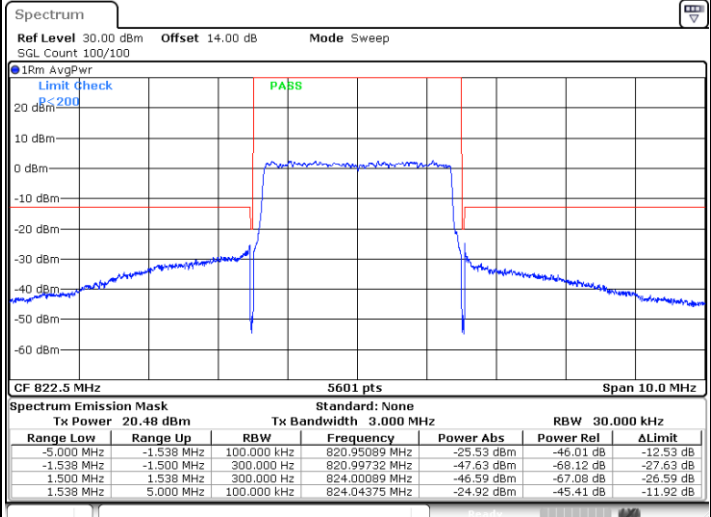
Date: 28.NOV.2019 23:45:06

Lowest Band Edge / Full RB



Date: 28.NOV.2019 21:37:19

Highest Band Edge / Full RB

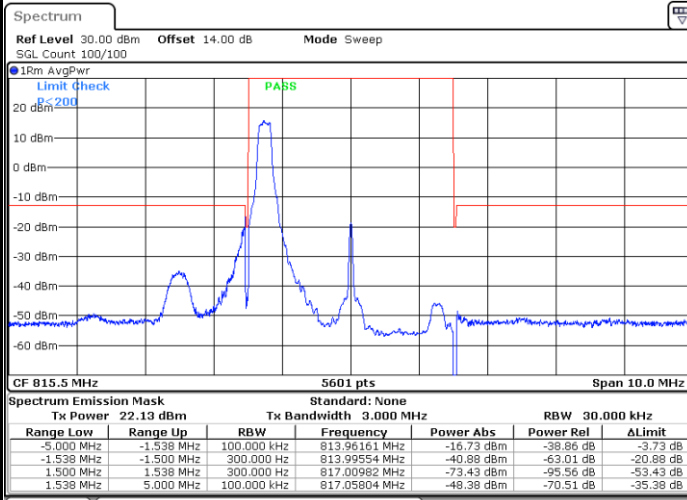


Date: 28.NOV.2019 21:41:19



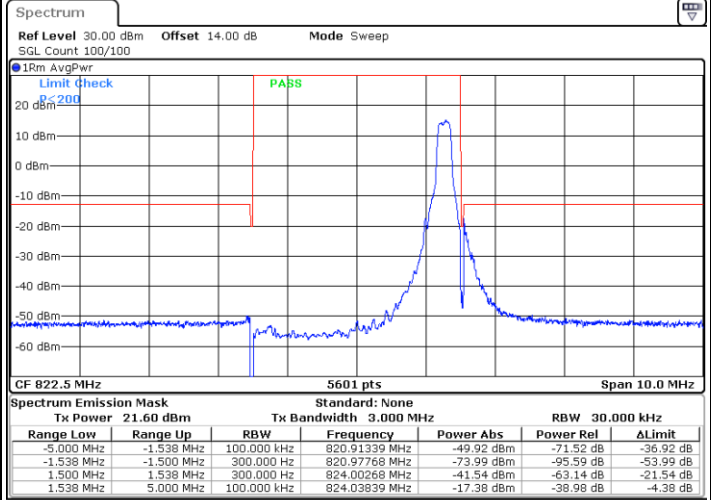
LTE Band 26 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



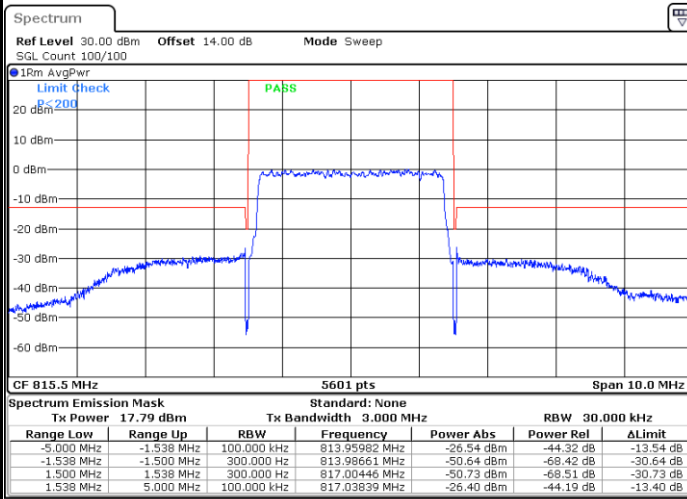
Date: 28.NOV.2019 23:38:31

Highest Band Edge / 1 RB



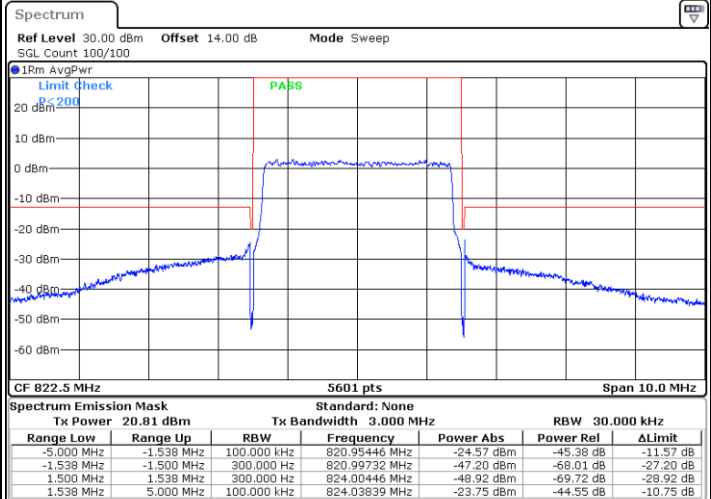
Date: 28.NOV.2019 23:41:15

Lowest Band Edge / Full RB



Date: 28.NOV.2019 22:10:17

Highest Band Edge / Full RB

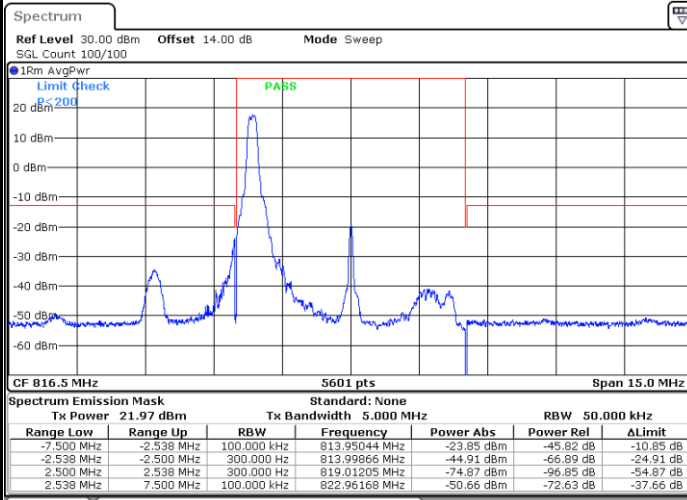


Date: 28.NOV.2019 23:45:55



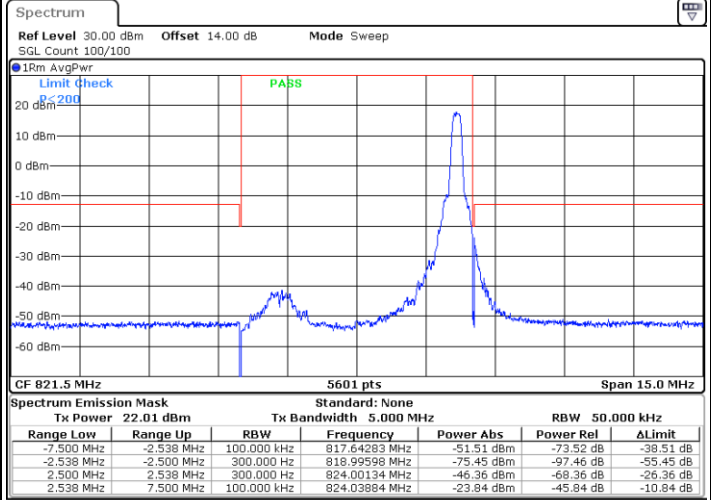
LTE Band 26 / 5MHz / QPSK

Lowest Band Edge / 1 RB



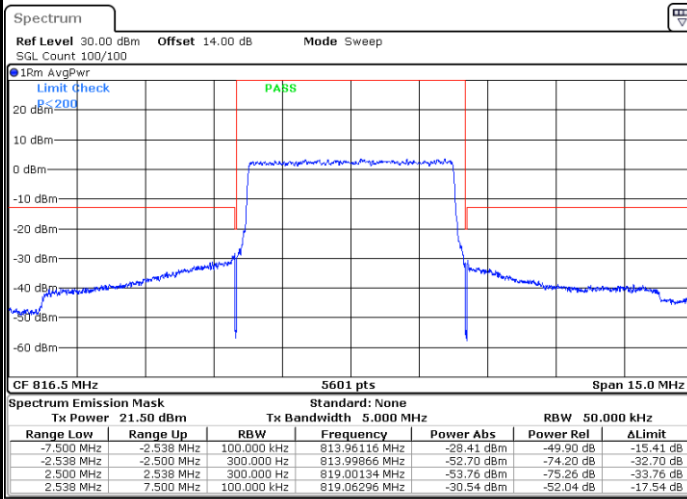
Date: 28.NOV.2019 21:42:19

Highest Band Edge / 1 RB



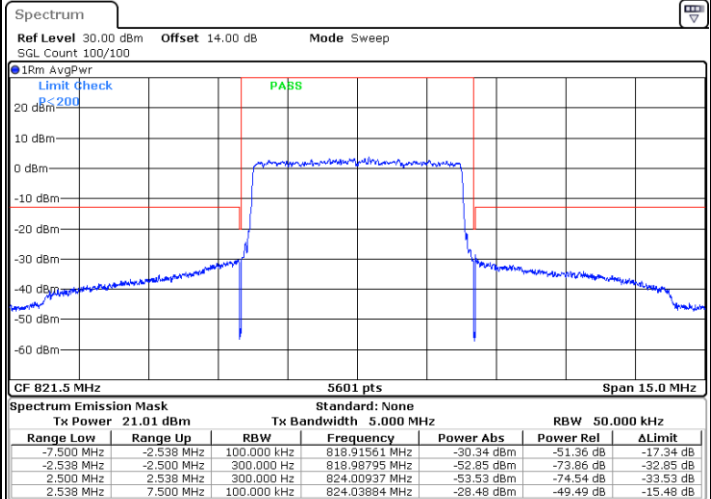
Date: 28.NOV.2019 21:46:49

Lowest Band Edge / Full RB



Date: 28.NOV.2019 21:44:50

Highest Band Edge / Full RB

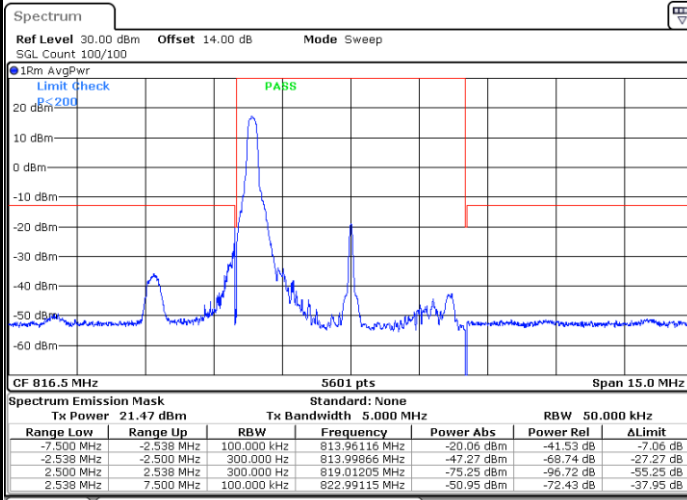


Date: 28.NOV.2019 21:48:47



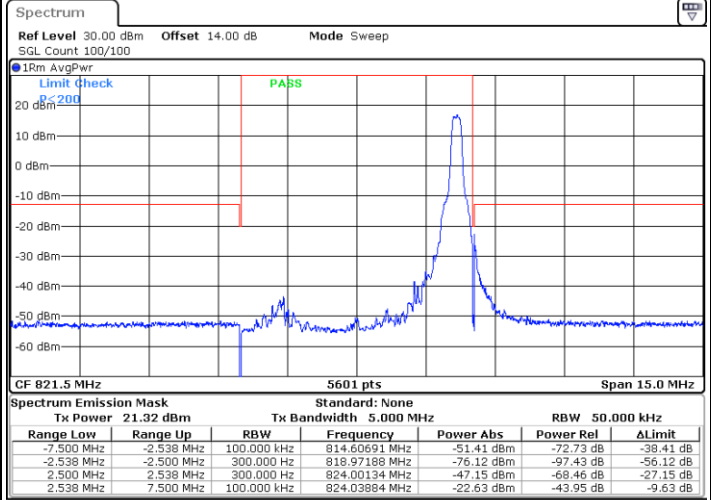
LTE Band 26 / 5MHz / 16QAM

Lowest Band Edge / 1RB



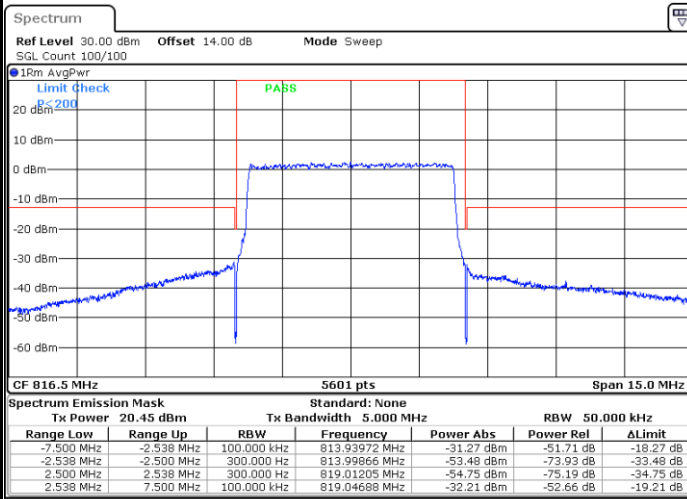
Date: 28.NOV.2019 21:43:18

Highest Band Edge / 1 RB



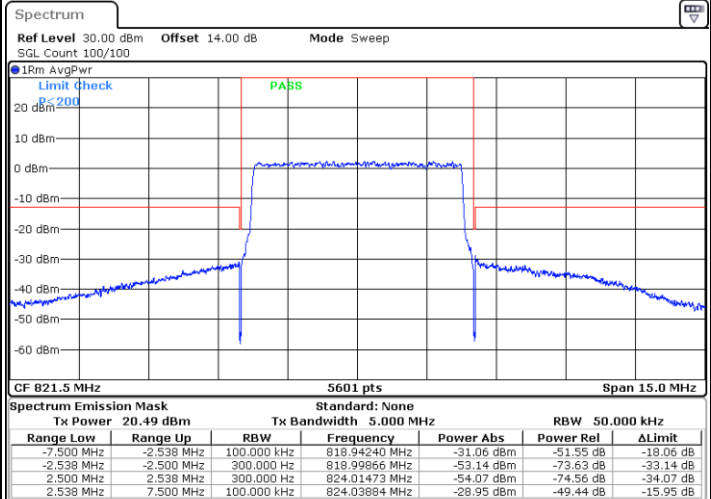
Date: 28.NOV.2019 21:47:48

Lowest Band Edge / Full RB



Date: 28.NOV.2019 21:45:49

Highest Band Edge / Full RB

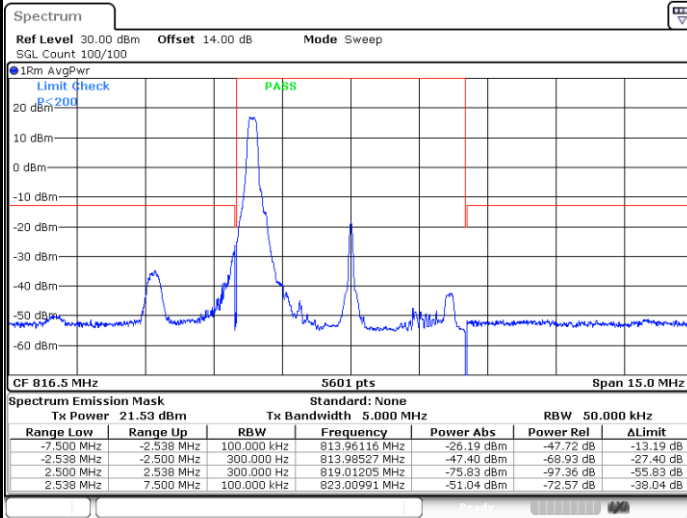


Date: 28.NOV.2019 21:49:47



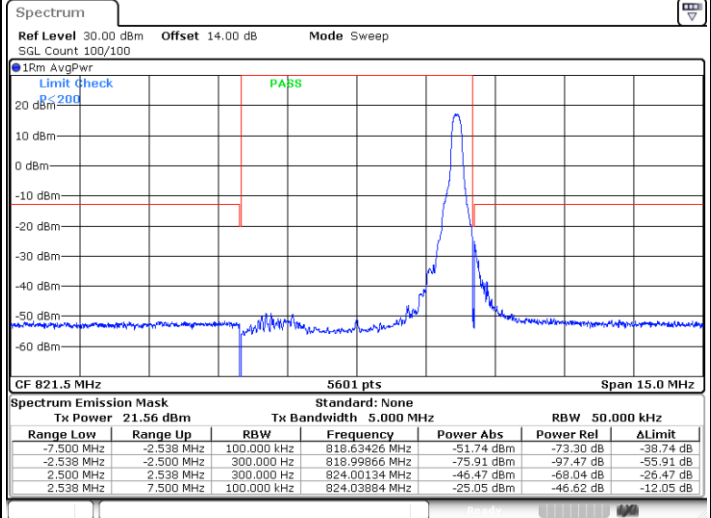
LTE Band 26 / 5MHz / 64QAM

Lowest Band Edge / 1RB



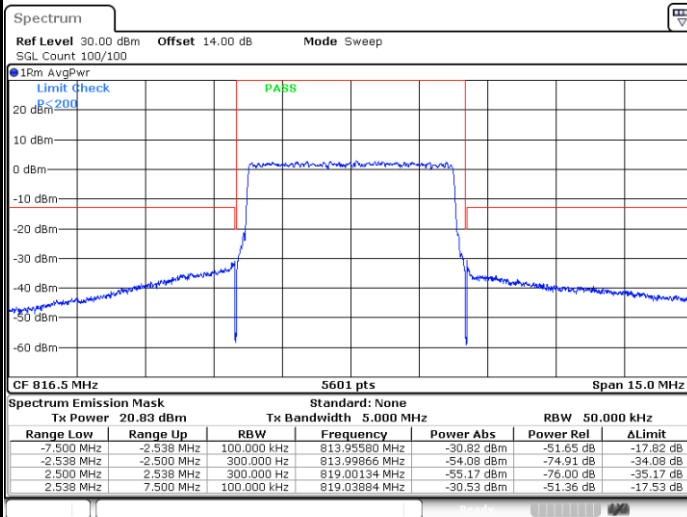
Date: 28.NOV.2019 23:50:06

Highest Band Edge / 1 RB



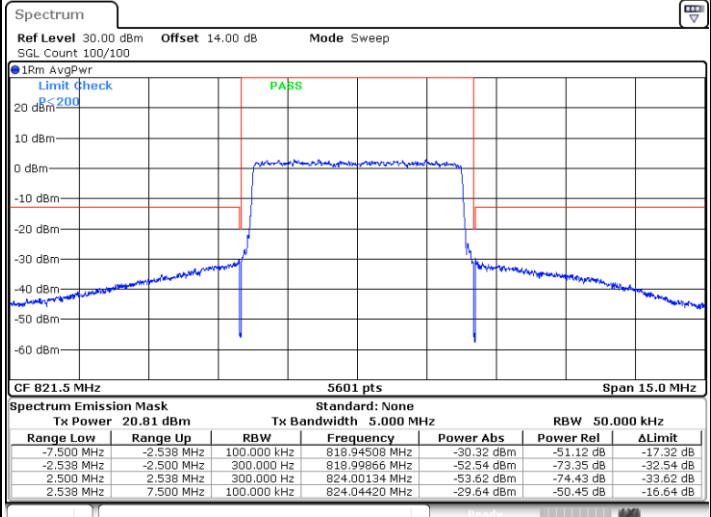
Date: 28.NOV.2019 23:51:04

Lowest Band Edge / Full RB



Date: 28.NOV.2019 23:50:34

Highest Band Edge / Full RB



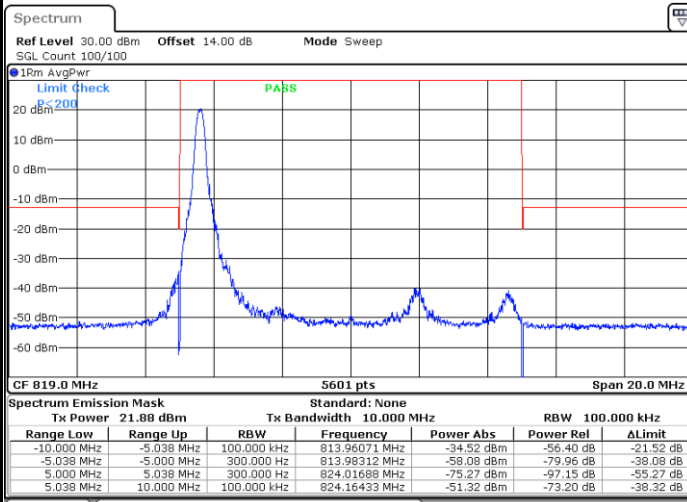
Date: 28.NOV.2019 23:52:00





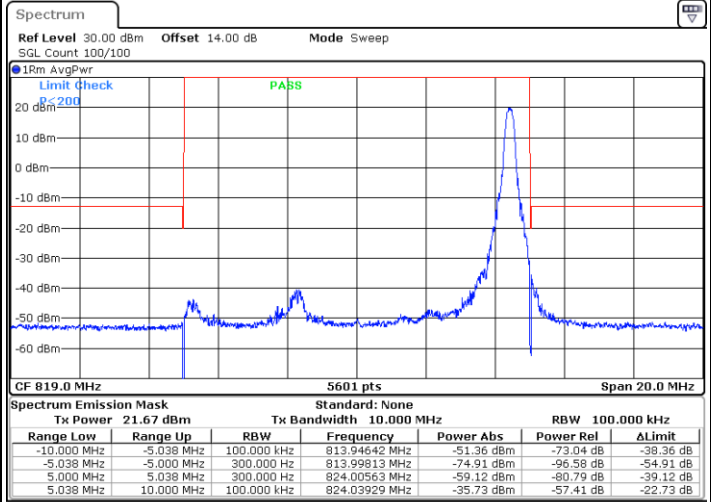
LTE Band 26 / 10MHz / QPSK

Lowest Band Edge / 1 RB



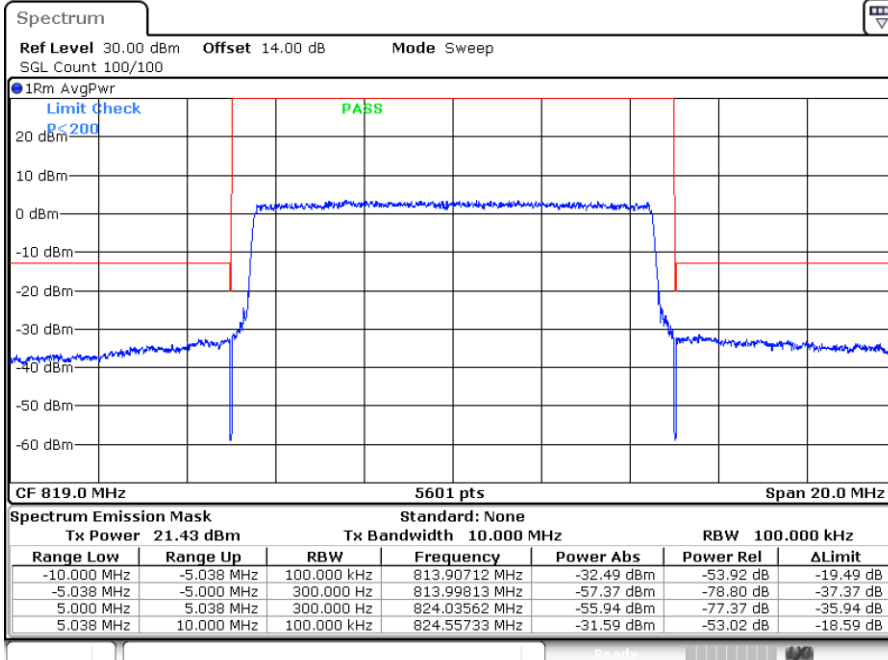
Date: 28.NOV.2019 21:50:46

Highest Band Edge / 1 RB



Date: 28.NOV.2019 21:52:45

Band Edge / Full RB



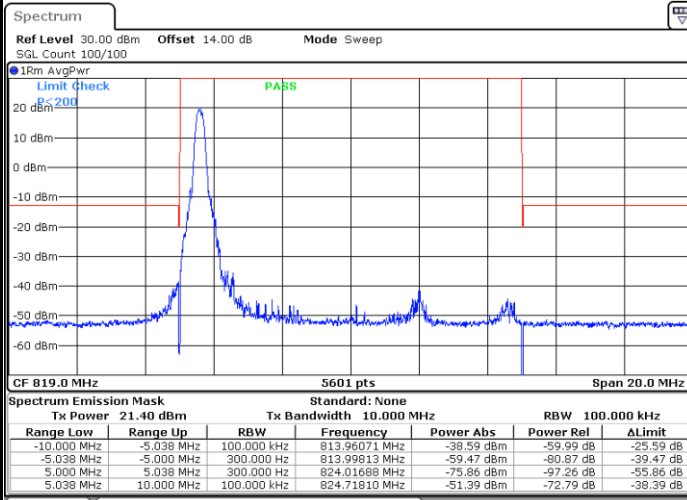
Date: 28.NOV.2019 21:54:44





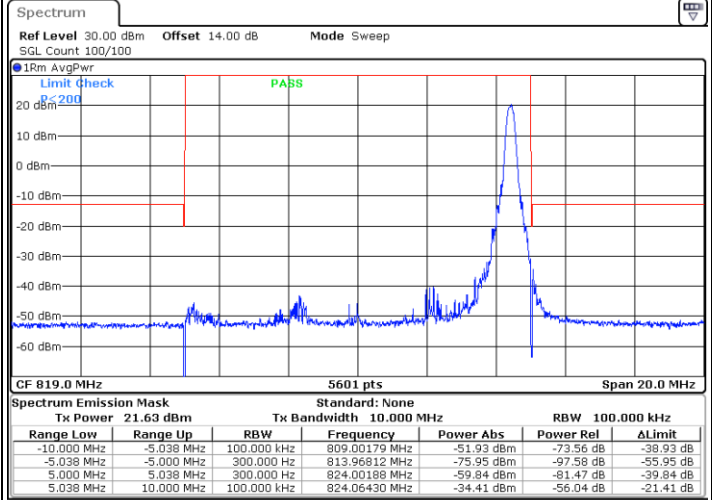
LTE Band 26 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



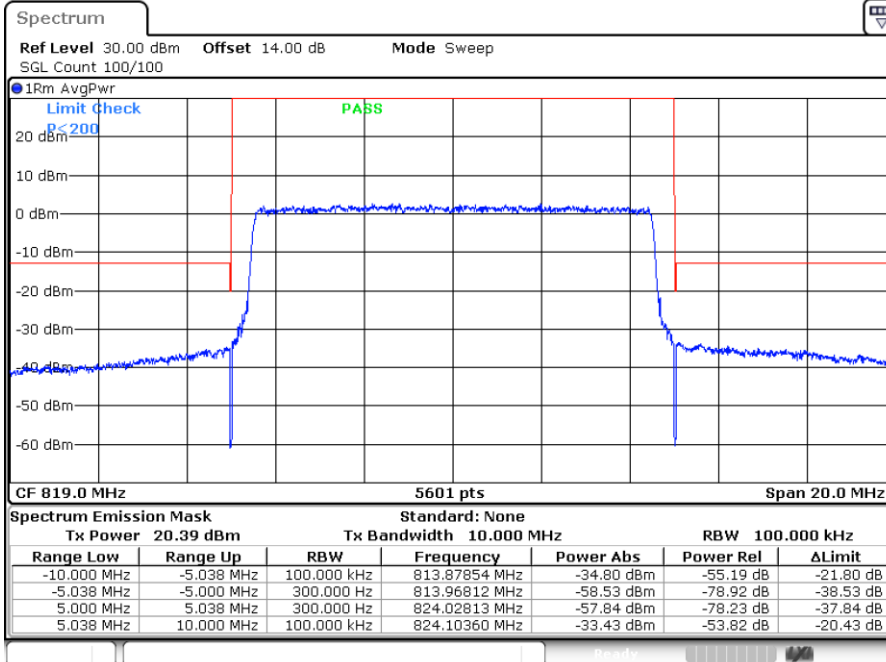
Date: 28.NOV.2019 21:51:46

Highest Band Edge / 1 RB



Date: 30.NOV.2019 01:31:13

Band Edge / Full RB

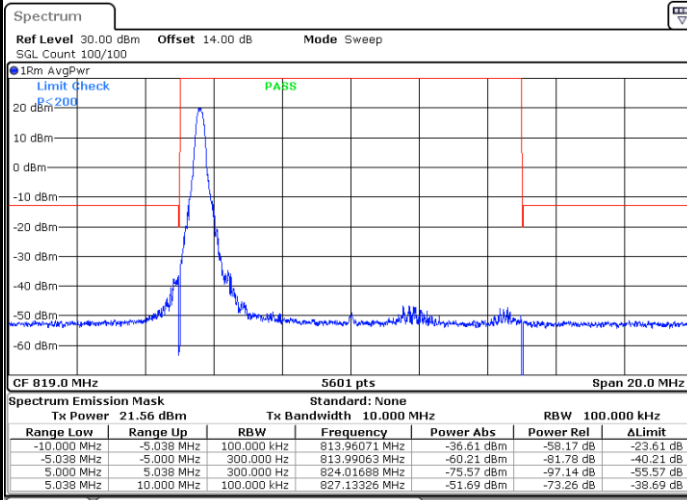


Date: 28.NOV.2019 21:55:43



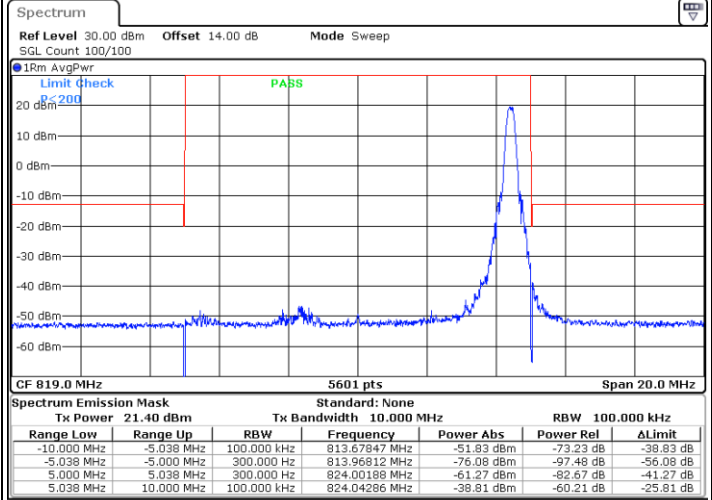
LTE Band 26 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



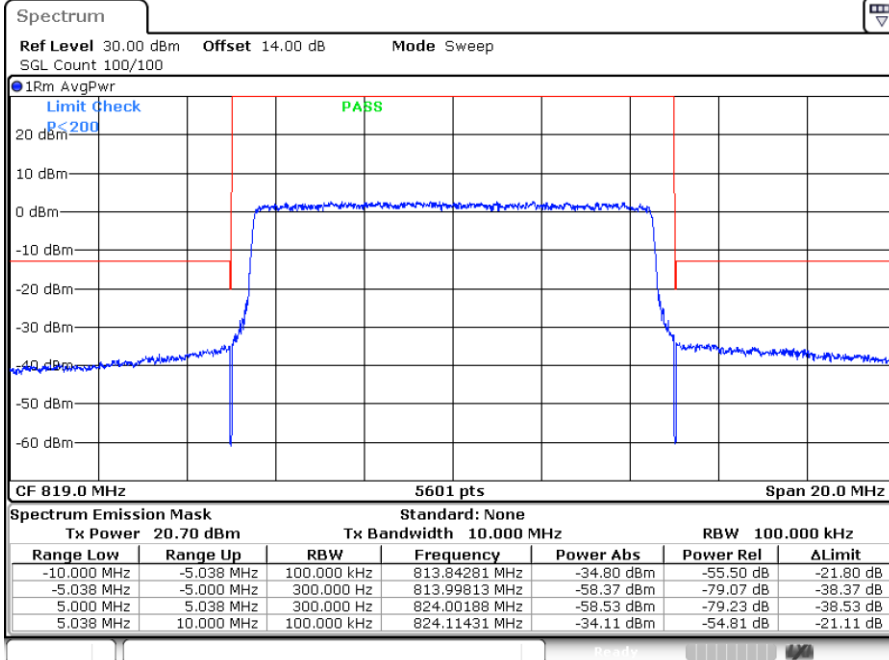
Date: 28.NOV.2019 23:53:01

Highest Band Edge / 1 RB



Date: 28.NOV.2019 23:53:30

Band Edge / Full RB

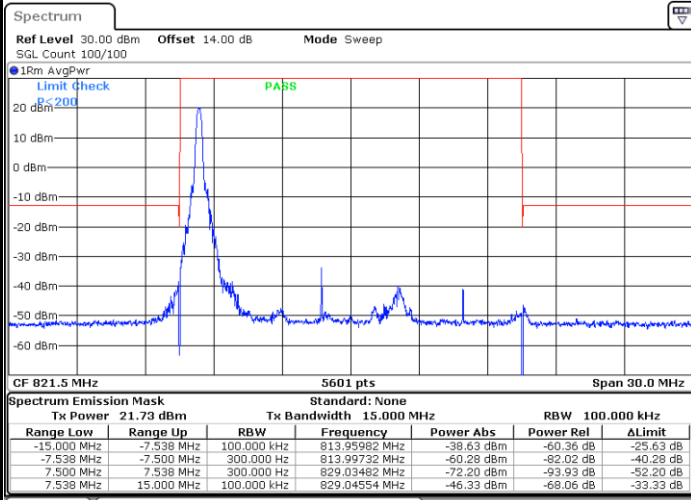


Date: 28.NOV.2019 23:52:33



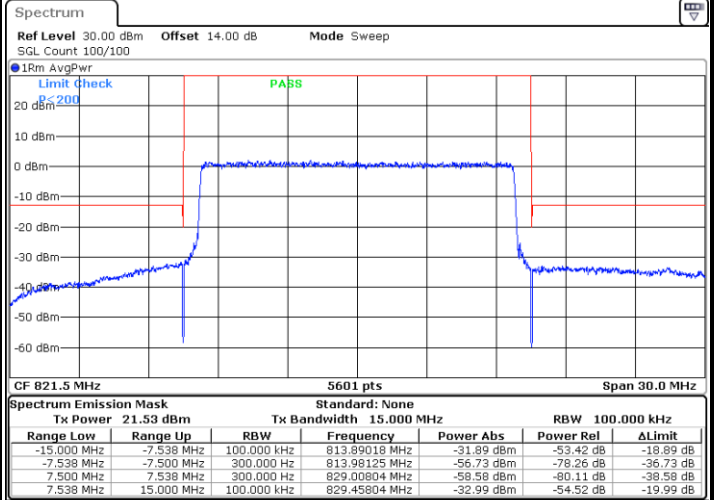
LTE Band 26 / 15MHz QPSK

Lowest Band Edge / 1 RB



Date: 28.NOV.2019 21:56:43

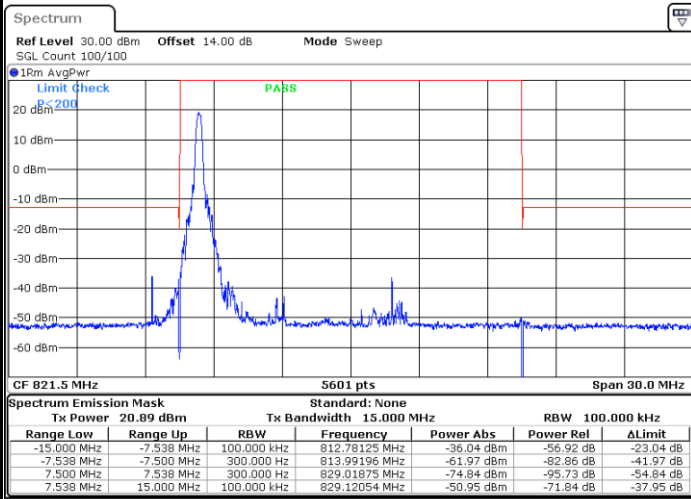
Lowest Band Edge / Full RB



Date: 28.NOV.2019 22:02:19

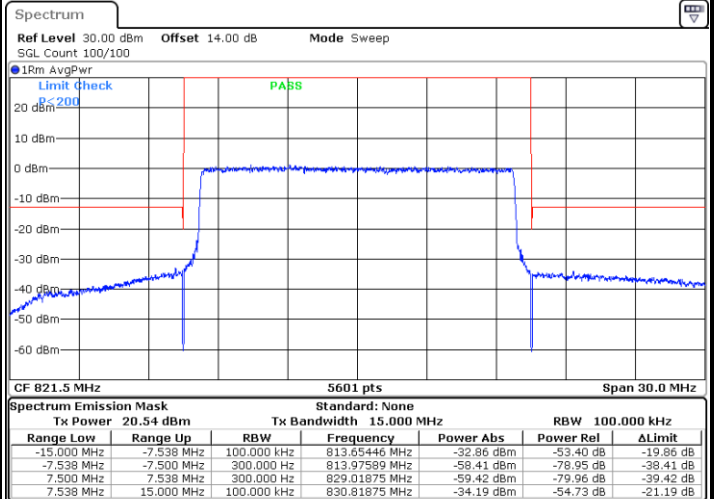
LTE Band 26 / 15MHz 16QAM

Lowest Band Edge / 1 RB

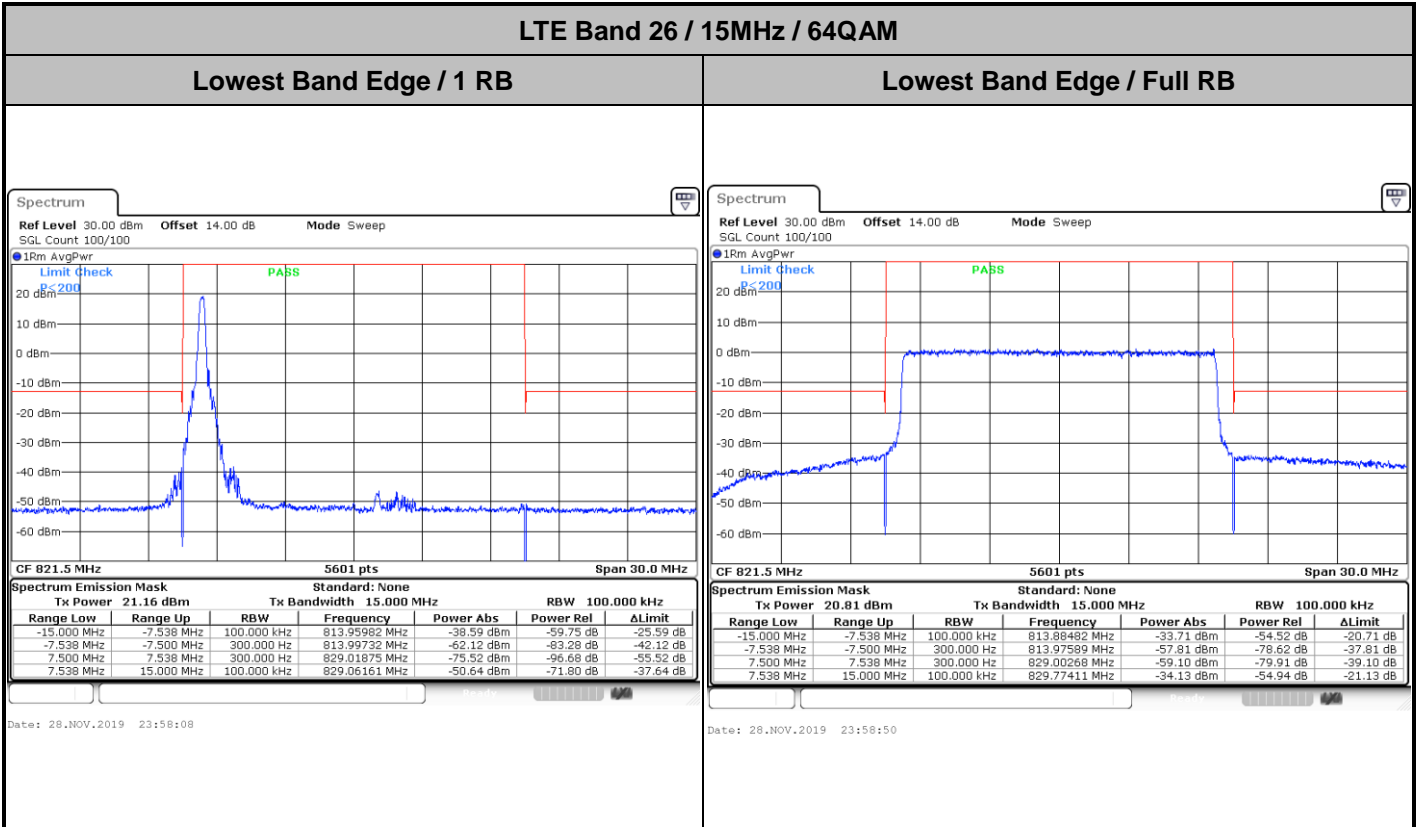


Date: 28.NOV.2019 21:57:42

Lowest Band Edge / Full RB

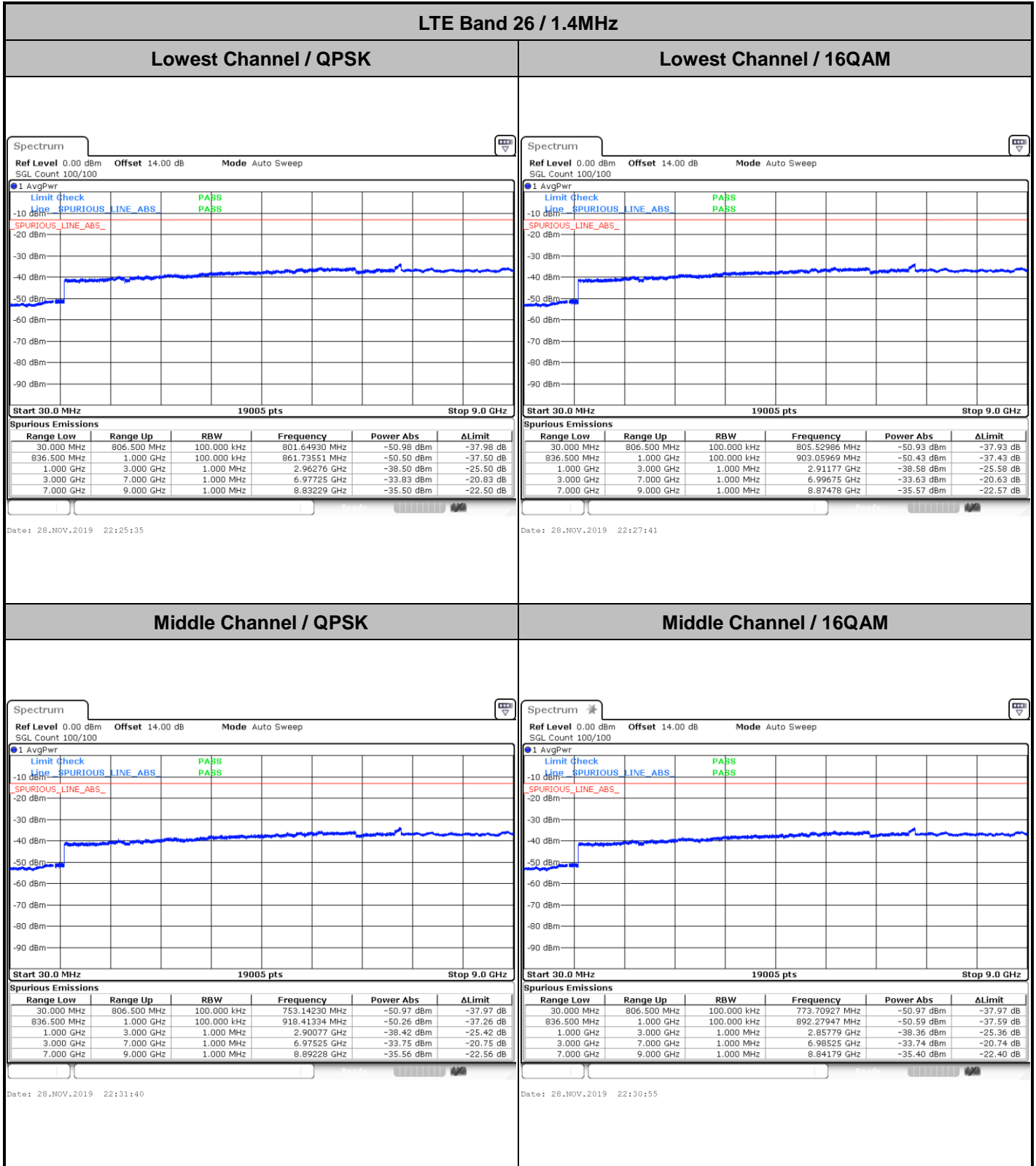


Date: 28.NOV.2019 22:03:18





# Conducted Spurious Emission

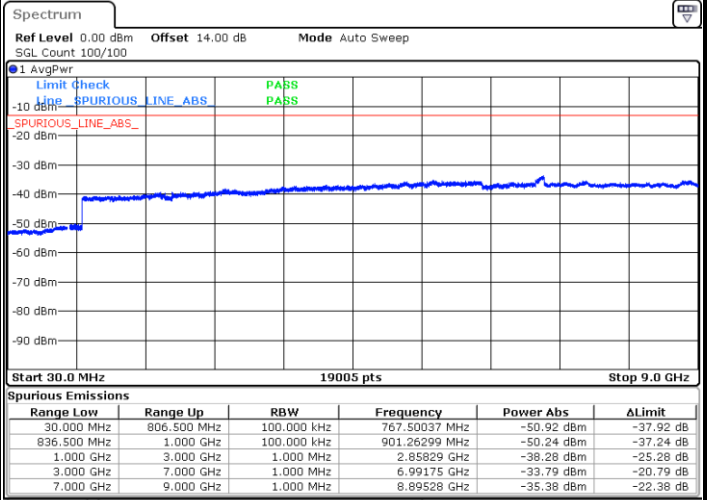
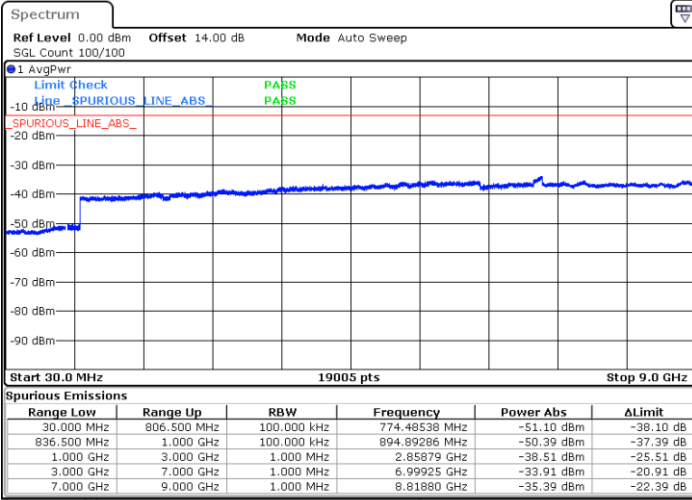




LTE Band 26 / 1.4MHz

Highest Channel / QPSK

Highest Channel / 16QAM



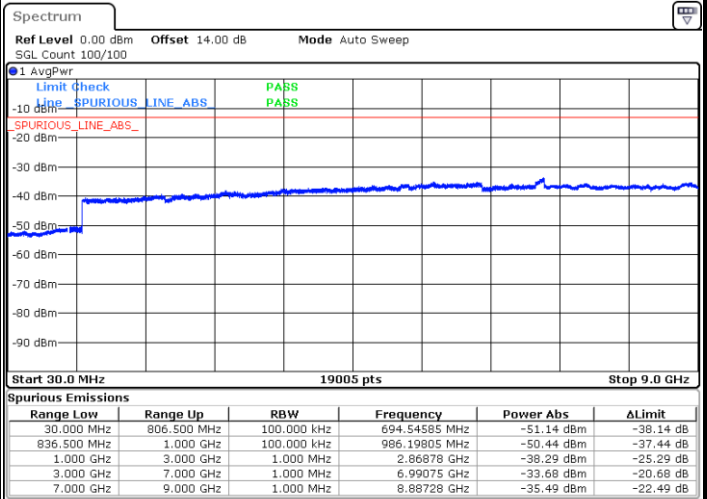
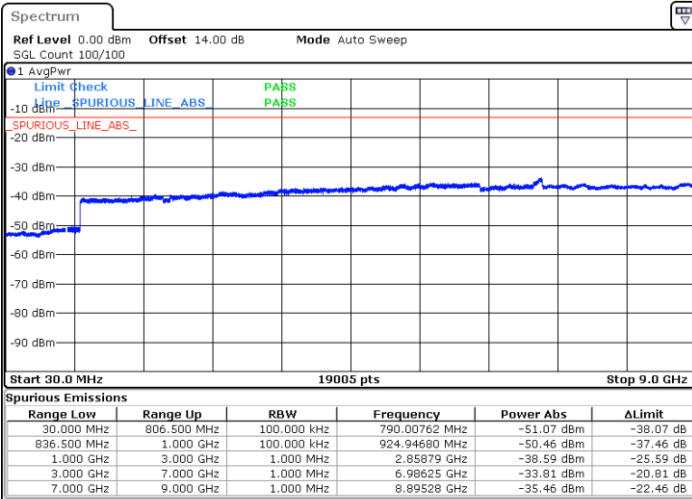
Date: 28.NOV.2019 22:34:17

Date: 28.NOV.2019 22:33:32

LTE Band 26 / 3MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 28.NOV.2019 23:06:02

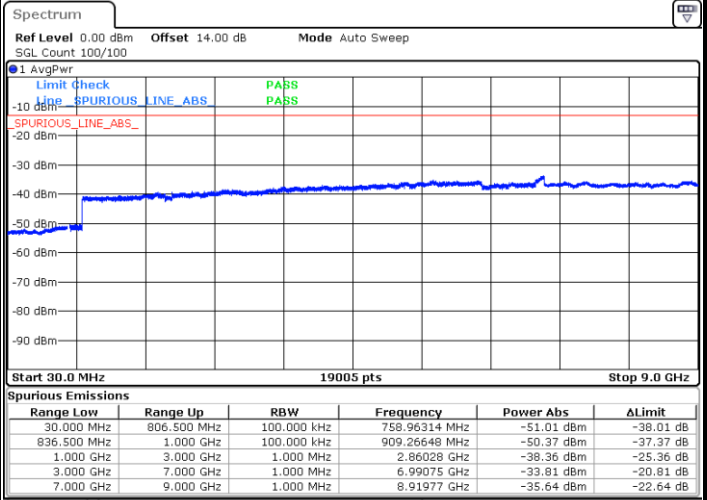
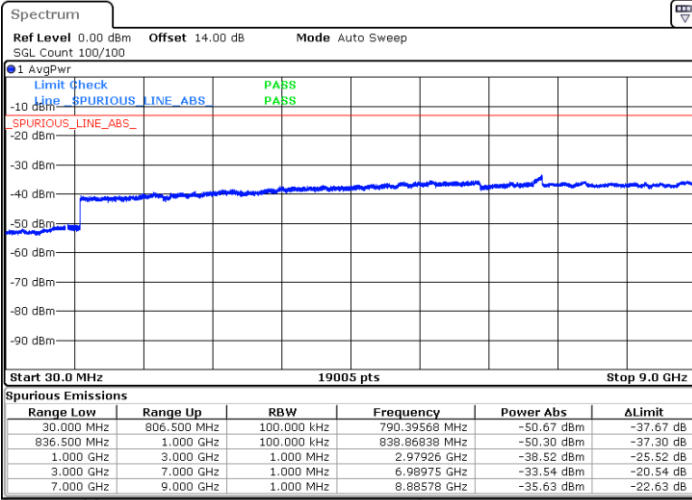
Date: 28.NOV.2019 23:06:44



LTE Band 26 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

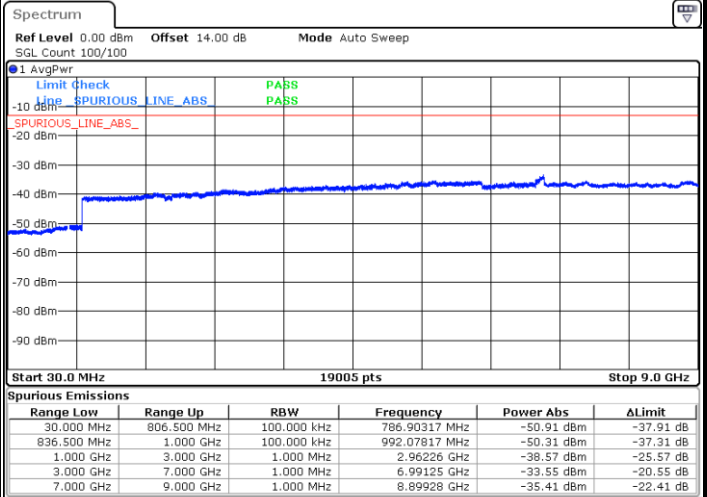
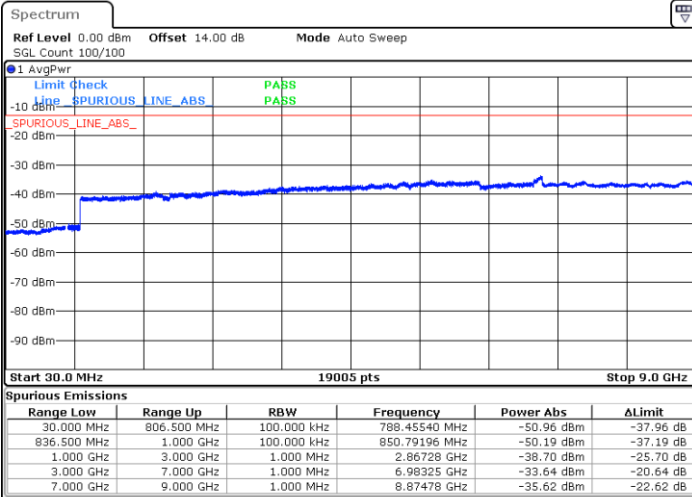


Date: 28.NOV.2019 23:08:11

Date: 28.NOV.2019 23:08:53

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 28.NOV.2019 23:48:45

Date: 28.NOV.2019 23:47:46

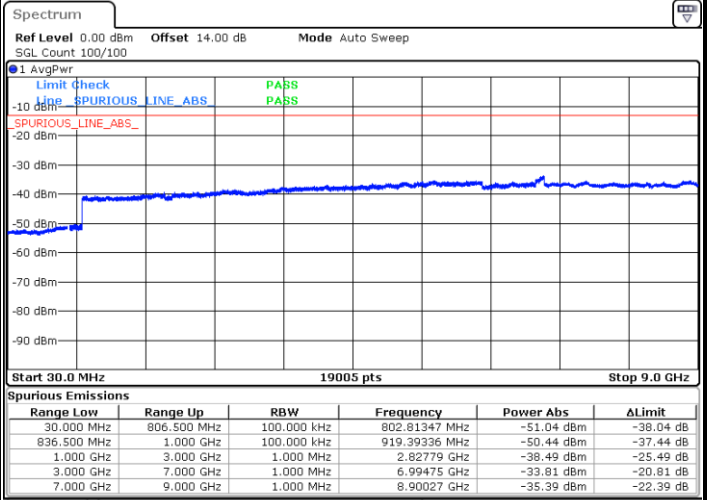
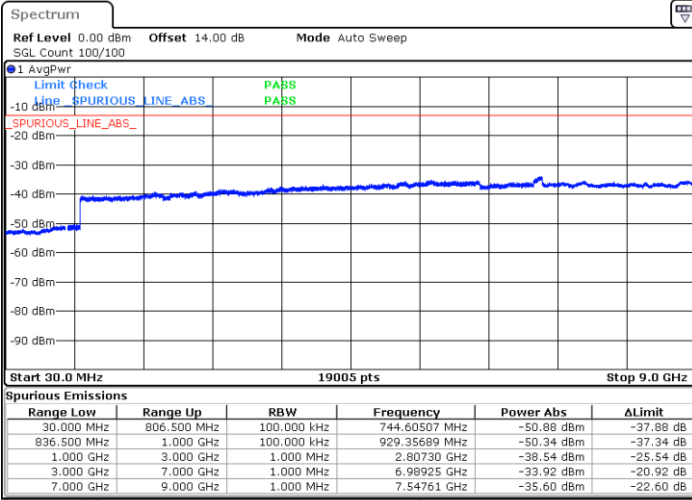




LTE Band 26 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

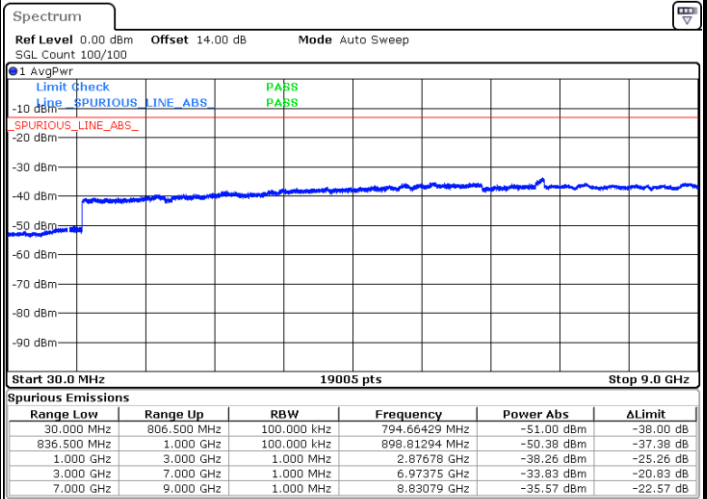
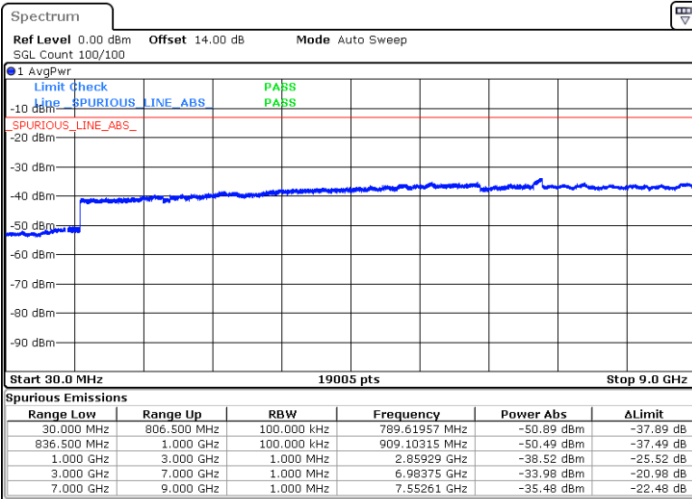


Date: 28.NOV.2019 23:17:41

Date: 28.NOV.2019 23:18:23

Middle Channel / QPSK

Middle Channel / 16QAM



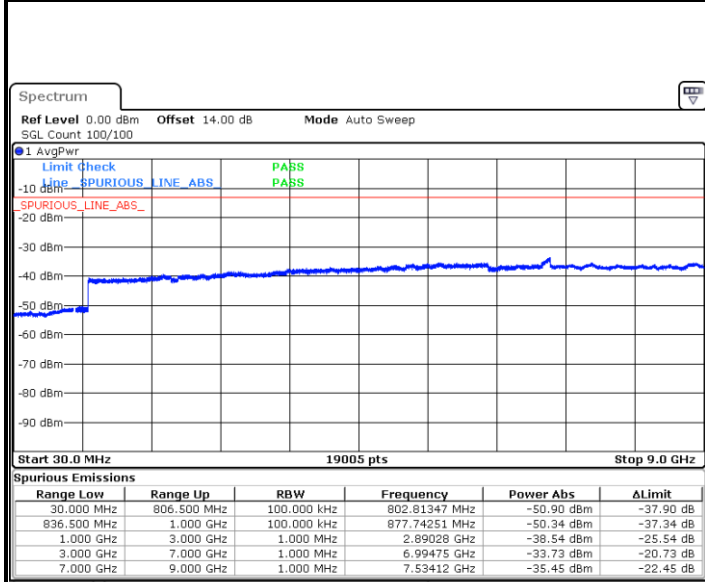
Date: 28.NOV.2019 23:19:49

Date: 28.NOV.2019 23:20:31



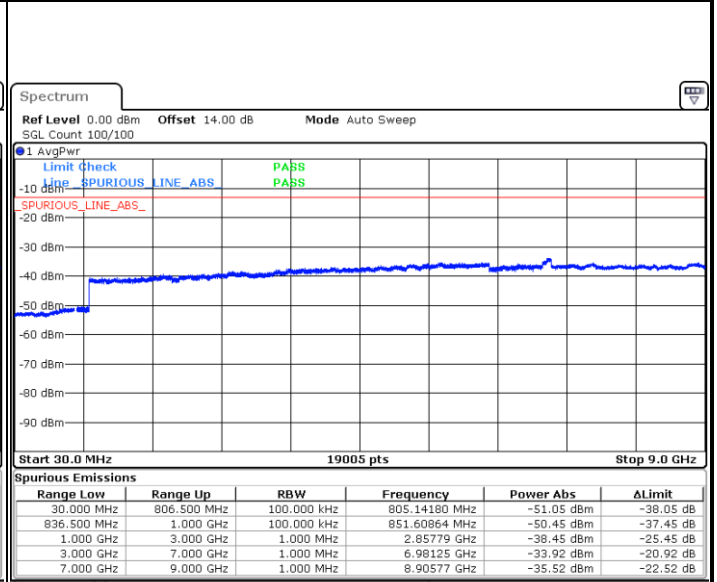
LTE Band 26 / 5MHz

Highest Channel / QPSK



Date: 28.NOV.2019 23:21:58

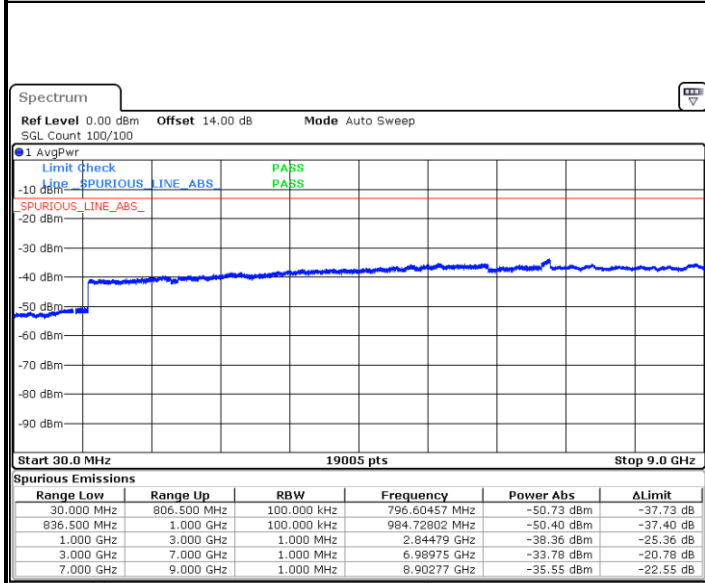
Highest Channel / 16QAM



Date: 28.NOV.2019 23:22:40

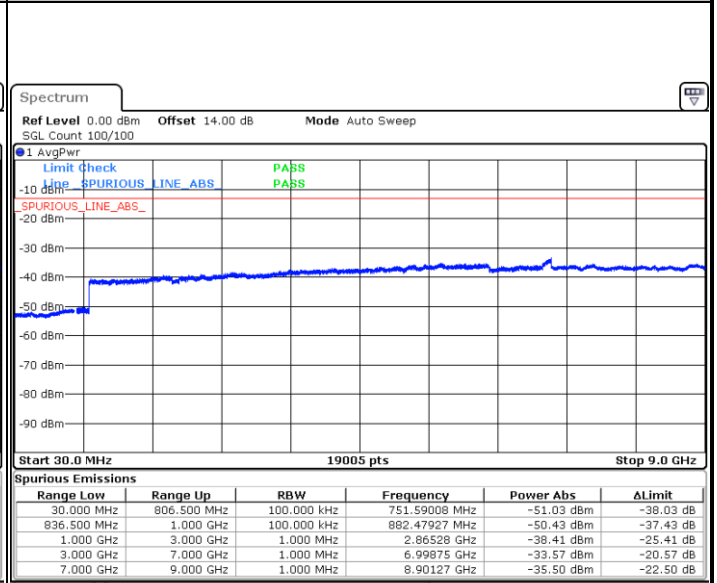
LTE Band 26 / 10MHz

Middle Channel / QPSK

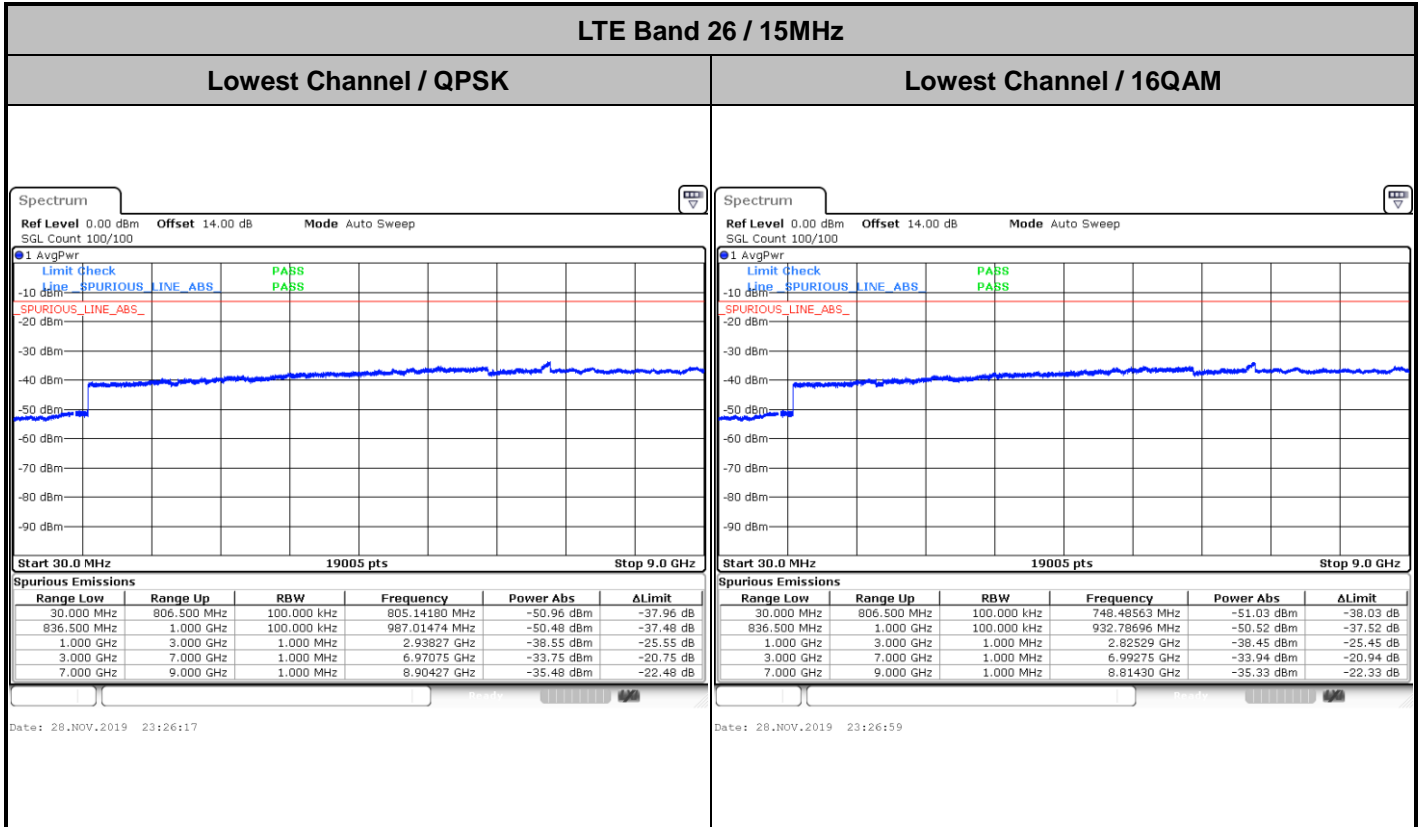


Date: 28.NOV.2019 23:24:07

Middle Channel / 16QAM



Date: 28.NOV.2019 23:24:50

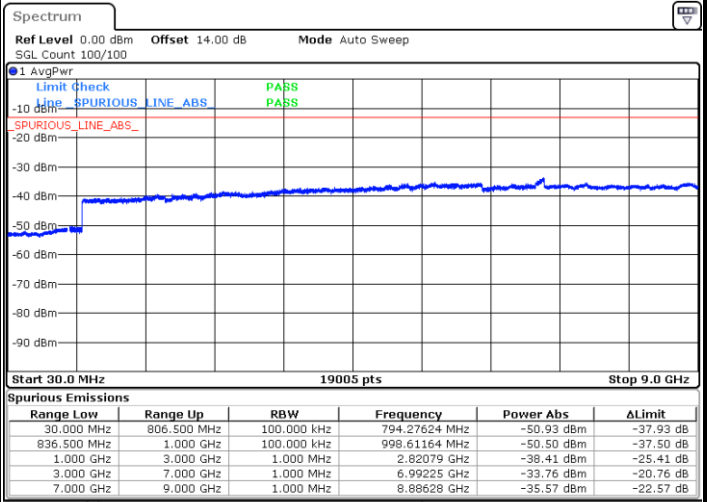
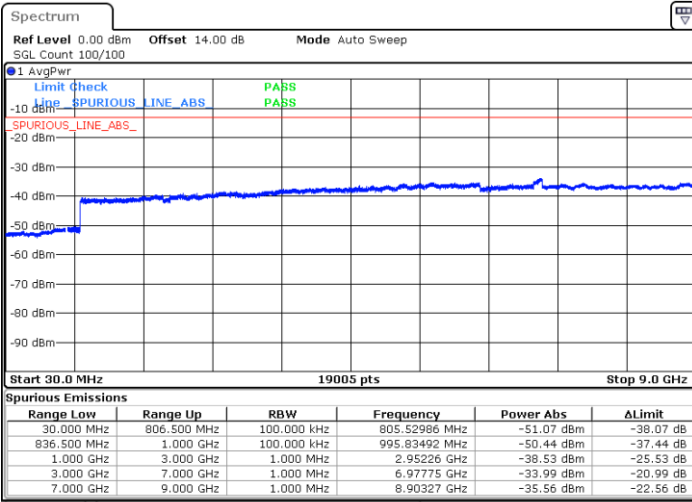




LTE Band 26 / 1.4MHz

Lowest Channel / 64QAM

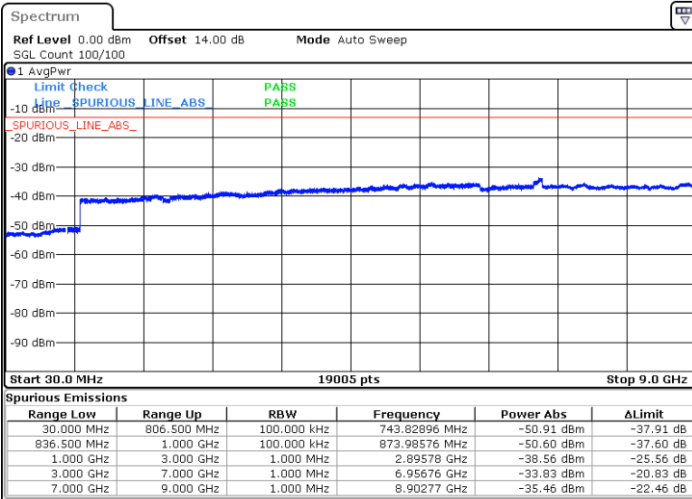
Middle Channel / 64QAM



Date: 28.NOV.2019 22:28:42

Date: 28.NOV.2019 22:30:06

Highest Channel / 64QAM



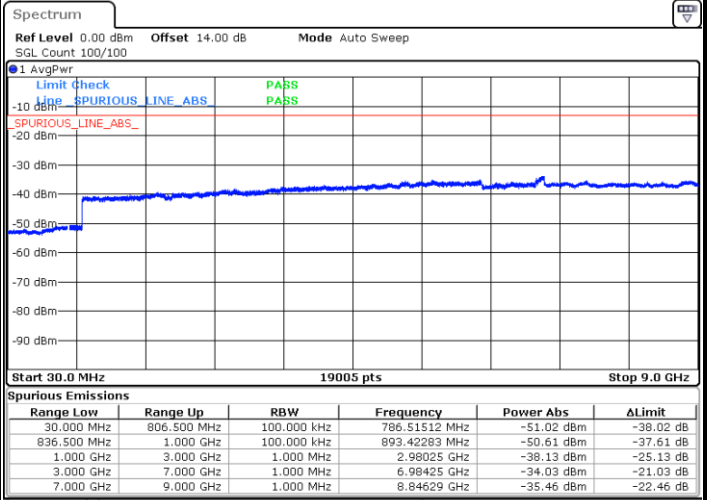
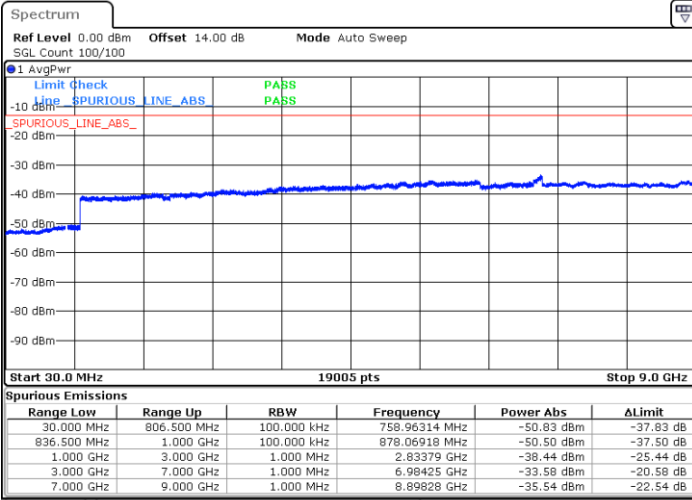
Date: 28.NOV.2019 22:49:18



LTE Band 26 / 3MHz

Lowest Channel / 64QAM

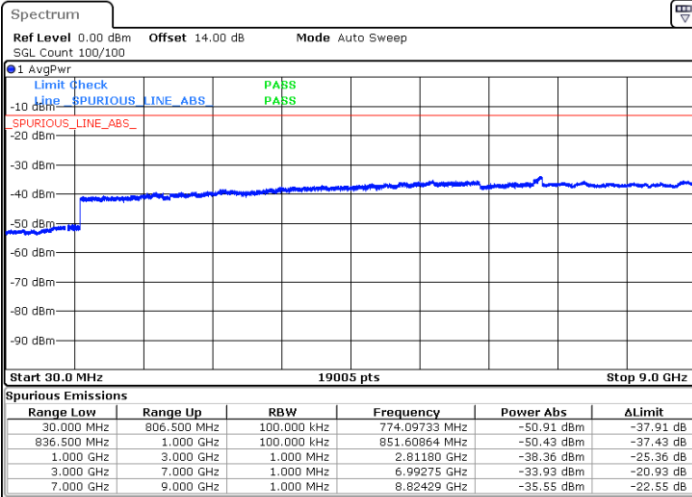
Middle Channel / 64QAM



Date: 28.NOV.2019 22:55:29

Date: 28.NOV.2019 22:56:33

Highest Channel / 64QAM



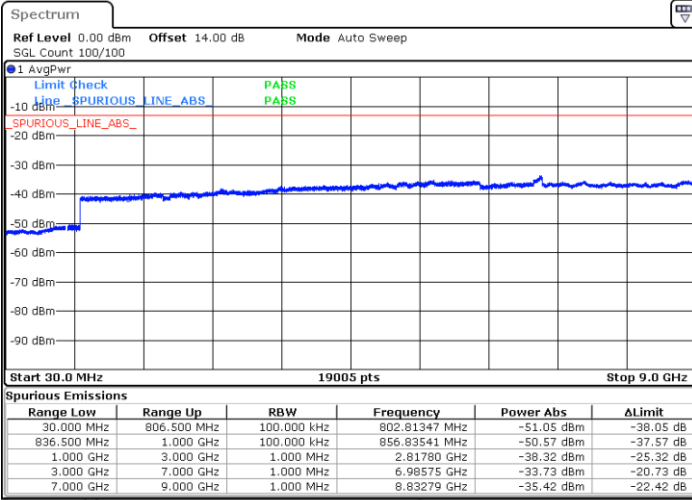
Date: 28.NOV.2019 23:46:44



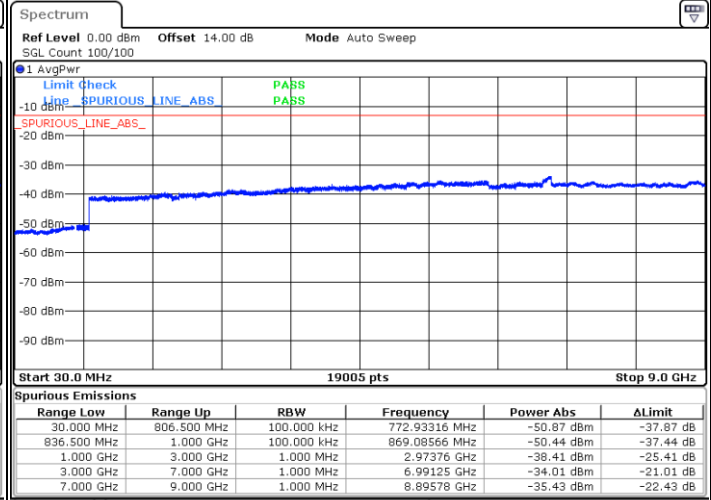
LTE Band 26 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

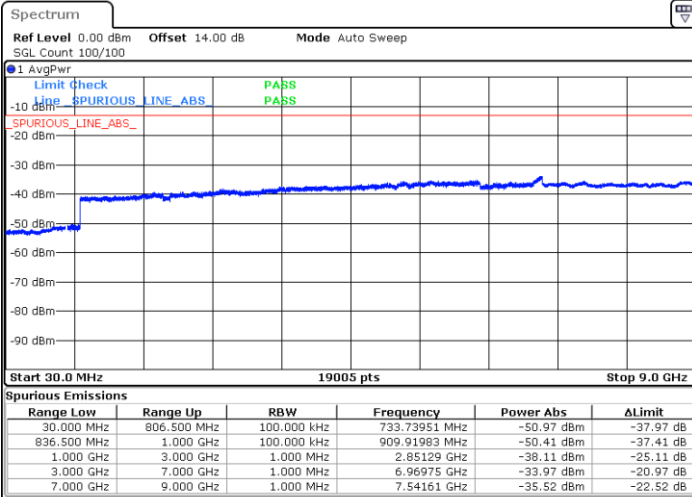


Date: 28.NOV.2019 22:58:42

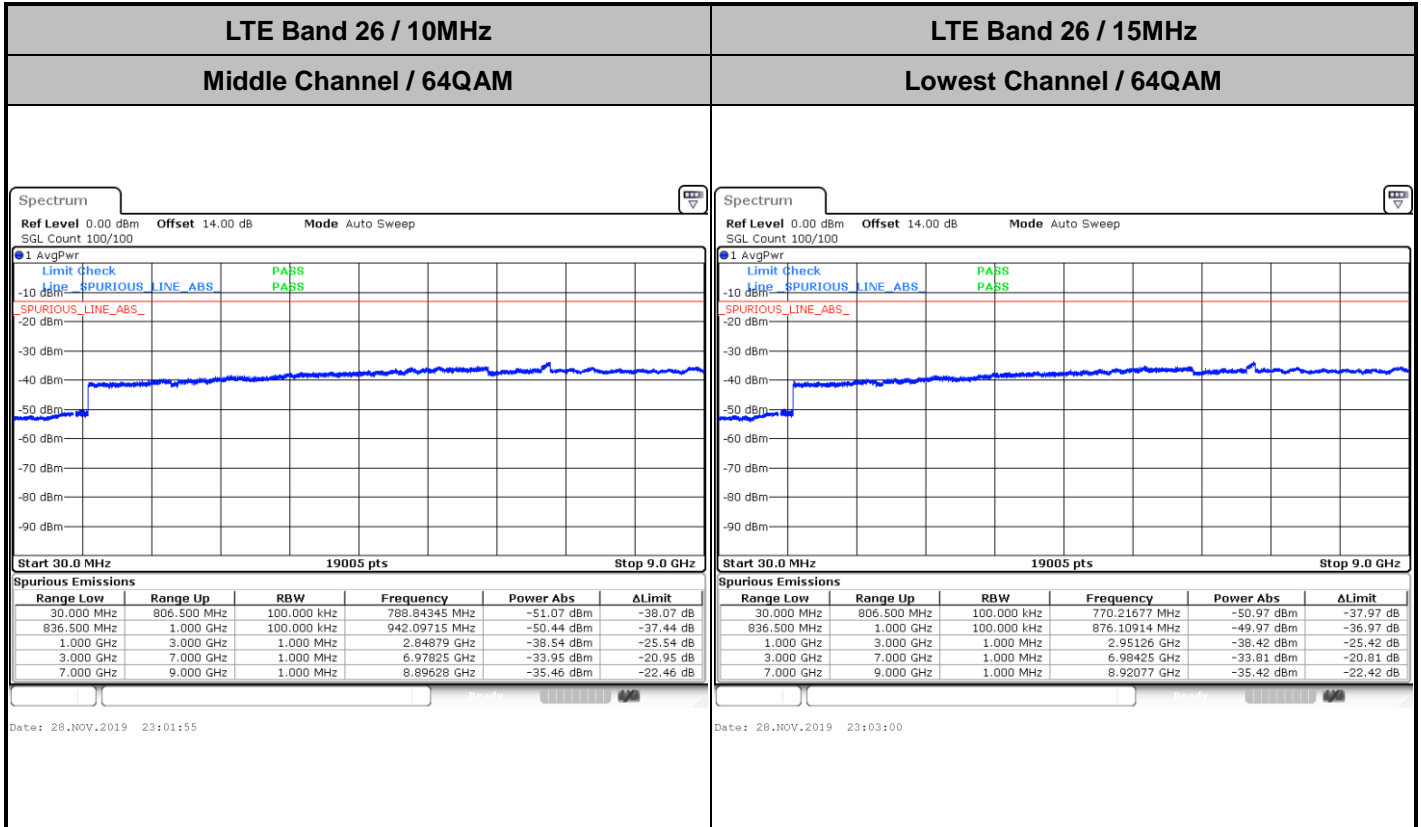


Date: 28.NOV.2019 22:59:47

Highest Channel / 64QAM



Date: 28.NOV.2019 23:00:51







### Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0050	PASS
40	Normal Voltage	0.0049	
30	Normal Voltage	0.0039	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0051	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0044	
-20	Normal Voltage	0.0020	
-30	Normal Voltage	0.0027	
20	Maximum Voltage	0.0032	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0033	

Note: Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.



# 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	-69.64	-13	-56.64	-78.84	-76.40	5.82	12.58	H
	2442.21	-66.64	-13	-53.64	-80.16	-72.36	7.28	13.00	H
	3256.28	-66.14	-13	-53.14	-81.79	-69.30	8.32	11.48	H
	1628.14	-70.38	-13	-57.38	-79.13	-77.14	5.82	12.58	V
	2442.21	-66.78	-13	-53.78	-80.31	-72.50	7.28	13.00	V
	3256.28	-66.02	-13	-53.02	-81.8	-69.18	8.32	11.48	V
Middle	1636.74	-69.66	-13	-56.66	-78.86	-76.41	5.85	12.60	H
	2455.11	-66.65	-13	-53.65	-80.15	-72.45	7.30	13.10	H
	3273.48	-65.84	-13	-52.84	-81.46	-68.99	8.35	11.50	H
	1636.74	-70.24	-13	-57.24	-78.99	-76.99	5.85	12.60	V
	2455.11	-66.86	-13	-53.86	-80.33	-72.66	7.30	13.10	V
	3273.48	-65.89	-13	-52.89	-81.61	-69.04	8.35	11.50	V
Highest	1645.34	-69.71	-13	-56.71	-78.78	-76.45	5.88	12.62	H
	2468.01	-67.14	-13	-54.14	-80.66	-72.95	7.32	13.13	H
	3290.68	-66.29	-13	-53.29	-81.87	-69.45	8.38	11.54	H
	1645.34	-70.29	-13	-57.29	-78.99	-77.03	5.88	12.62	V
	2468.01	-66.90	-13	-53.90	-80.39	-72.71	7.32	13.13	V
	3290.68	-65.87	-13	-52.87	-81.52	-69.03	8.38	11.54	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	-69.73	-13	-56.73	-78.93	-76.49	5.82	12.58	H
	2442.45	-67.12	-13	-54.12	-80.64	-72.84	7.28	13.00	H
	3256.6	-66.17	-13	-53.17	-81.82	-69.33	8.32	11.48	H
	1628.3	-70.13	-13	-57.13	-78.88	-76.89	5.82	12.58	V
	2442.45	-67.03	-13	-54.03	-80.56	-72.75	7.28	13.00	V
	3256.6	-65.81	-13	-52.81	-81.59	-68.97	8.32	11.48	V
Middle	1635.3	-69.72	-13	-56.72	-78.92	-76.47	5.85	12.60	H
	2452.95	-67.16	-13	-54.16	-80.68	-72.96	7.30	13.10	H
	3270.6	-66.23	-13	-53.23	-81.85	-69.38	8.35	11.50	H
	1635.3	-69.94	-13	-56.94	-78.69	-76.69	5.85	12.60	V
	2452.95	-66.88	-13	-53.88	-80.41	-72.68	7.30	13.10	V
	3270.6	-66.11	-13	-53.11	-81.83	-69.26	8.35	11.50	V
Highest	1642.3	-70.04	-13	-57.04	-79.11	-76.78	5.88	12.62	H
	2463.45	-67.13	-13	-54.13	-80.63	-72.94	7.32	13.13	H
	3284.6	-66.27	-13	-53.27	-81.89	-69.43	8.38	11.54	H
	1642.3	-70.31	-13	-57.31	-79.01	-77.05	5.88	12.62	V
	2463.45	-67.14	-13	-54.14	-80.61	-72.95	7.32	13.13	V
	3284.6	-66.21	-13	-53.21	-81.93	-69.37	8.38	11.54	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	-69.68	-13	-56.68	-78.88	-76.44	5.82	12.58	H
	2442.75	-66.99	-13	-53.99	-80.51	-72.71	7.28	13.00	H
	3257	-66.02	-13	-53.02	-81.67	-69.18	8.32	11.48	H
	1628.5	-70.21	-13	-57.21	-78.96	-76.97	5.82	12.58	V
	2442.75	-66.57	-13	-53.57	-80.1	-72.29	7.28	13.00	V
	3257	-65.96	-13	-52.96	-81.74	-69.12	8.32	11.48	V
Middle	1633.5	-69.64	-13	-56.64	-78.84	-76.39	5.85	12.60	H
	2450.25	-67.06	-13	-54.06	-80.58	-72.86	7.30	13.10	H
	3267	-66.11	-13	-53.11	-81.76	-69.26	8.35	11.50	H
	1633.5	-70.12	-13	-57.12	-78.87	-76.87	5.85	12.60	V
	2450.25	-67.10	-13	-54.10	-80.63	-72.90	7.30	13.10	V
	3267	-66.30	-13	-53.30	-82.08	-69.45	8.35	11.50	V
Highest	1638.5	-69.81	-13	-56.81	-78.88	-76.55	5.88	12.62	H
	2457.75	-67.05	-13	-54.05	-80.55	-72.86	7.32	13.13	H
	3277	-65.93	-13	-52.93	-81.55	-69.09	8.38	11.54	H
	1638.5	-69.50	-13	-56.50	-78.2	-76.24	5.88	12.62	V
	2457.75	-66.84	-13	-53.84	-80.31	-72.65	7.32	13.13	V
	3277	-66.00	-13	-53.00	-81.72	-69.16	8.38	11.54	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	-69.75	-13	-56.75	-78.95	-76.50	5.85	12.60	H
	2443.5	-66.81	-13	-53.81	-80.33	-72.61	7.30	13.10	H
	3258	-65.72	-13	-52.72	-81.37	-68.87	8.35	11.50	H
	1629	-70.17	-13	-57.17	-78.92	-76.92	5.85	12.60	V
	2443.5	-67.10	-13	-54.10	-80.63	-72.90	7.30	13.10	V
	3258	-66.12	-13	-53.12	-81.9	-69.27	8.35	11.50	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	-69.41	-13	-56.41	-78.61	-76.17	5.82	12.58	H
	2442.21	-67.02	-13	-54.02	-80.54	-72.74	7.28	13.00	H
	3256.28	-66.32	-13	-53.32	-81.97	-69.48	8.32	11.48	H
	1628.14	-70.14	-13	-57.14	-78.89	-76.90	5.82	12.58	V
	2442.21	-67.27	-13	-54.27	-80.8	-72.99	7.28	13.00	V
	3256.28	-65.98	-13	-52.98	-81.76	-69.14	8.32	11.48	V
Middle	1636.74	-69.92	-13	-56.92	-79.12	-76.67	5.85	12.60	H
	2455.11	-67.16	-13	-54.16	-80.66	-72.96	7.30	13.10	H
	3273.48	-66.14	-13	-53.14	-81.76	-69.29	8.35	11.50	H
	1636.74	-69.88	-13	-56.88	-78.63	-76.63	5.85	12.60	V
	2455.11	-67.06	-13	-54.06	-80.53	-72.86	7.30	13.10	V
	3273.48	-66.19	-13	-53.19	-81.91	-69.34	8.35	11.50	V
Highest	1645.34	-69.80	-13	-56.80	-78.87	-76.54	5.88	12.62	H
	2468.01	-66.63	-13	-53.63	-80.15	-72.44	7.32	13.13	H
	3290.68	-66.38	-13	-53.38	-81.96	-69.54	8.38	11.54	H
	1645.34	-70.10	-13	-57.10	-78.8	-76.84	5.88	12.62	V
	2468.01	-67.42	-13	-54.42	-80.91	-73.23	7.32	13.13	V
	3290.68	-66.02	-13	-53.02	-81.67	-69.18	8.38	11.54	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	-69.53	-13	-56.53	-78.73	-76.29	5.82	12.58	H
	2442.45	-67.00	-13	-54.00	-80.52	-72.72	7.28	13.00	H
	3256.6	-66.33	-13	-53.33	-81.98	-69.49	8.32	11.48	H
	1628.3	-70.25	-13	-57.25	-79	-77.01	5.82	12.58	V
	2442.45	-67.20	-13	-54.20	-80.73	-72.92	7.28	13.00	V
	3256.6	-66.05	-13	-53.05	-81.83	-69.21	8.32	11.48	V
Middle	1635.3	-69.65	-13	-56.65	-78.85	-76.40	5.85	12.60	H
	2452.95	-67.11	-13	-54.11	-80.63	-72.91	7.30	13.10	H
	3270.6	-66.23	-13	-53.23	-81.85	-69.38	8.35	11.50	H
	1635.3	-70.03	-13	-57.03	-78.78	-76.78	5.85	12.60	V
	2452.95	-67.13	-13	-54.13	-80.66	-72.93	7.30	13.10	V
	3270.6	-65.26	-13	-52.26	-80.98	-68.41	8.35	11.50	V
Highest	1642.3	-70.09	-13	-57.09	-79.16	-76.83	5.88	12.62	H
	2463.45	-66.85	-13	-53.85	-80.35	-72.66	7.32	13.13	H
	3284.6	-66.27	-13	-53.27	-81.89	-69.43	8.38	11.54	H
	1642.3	-70.17	-13	-57.17	-78.87	-76.91	5.88	12.62	V
	2463.45	-66.83	-13	-53.83	-80.3	-72.64	7.32	13.13	V
	3284.6	-66.13	-13	-53.13	-81.85	-69.29	8.38	11.54	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	-69.76	-13	-56.76	-78.96	-76.52	5.82	12.58	H
	2442.75	-67.30	-13	-54.30	-80.82	-73.02	7.28	13.00	H
	3257	-66.27	-13	-53.27	-81.92	-69.43	8.32	11.48	H
	1628.5	-70.08	-13	-57.08	-78.83	-76.84	5.82	12.58	V
	2442.75	-66.90	-13	-53.90	-80.43	-72.62	7.28	13.00	V
	3257	-66.25	-13	-53.25	-82.03	-69.41	8.32	11.48	V
Middle	1633.5	-69.78	-13	-56.78	-78.98	-76.53	5.85	12.60	H
	2450.25	-66.99	-13	-53.99	-80.51	-72.79	7.30	13.10	H
	3267	-66.12	-13	-53.12	-81.77	-69.27	8.35	11.50	H
	1633.5	-70.08	-13	-57.08	-78.83	-76.83	5.85	12.60	V
	2450.25	-66.84	-13	-53.84	-80.37	-72.64	7.30	13.10	V
	3267	-65.99	-13	-52.99	-81.77	-69.14	8.35	11.50	V
Highest	1638.5	-69.89	-13	-56.89	-78.96	-76.63	5.88	12.62	H
	2457.75	-67.27	-13	-54.27	-80.77	-73.08	7.32	13.13	H
	3277	-66.19	-13	-53.19	-81.81	-69.35	8.38	11.54	H
	1638.5	-70.25	-13	-57.25	-78.95	-76.99	5.88	12.62	V
	2457.75	-66.89	-13	-53.89	-80.36	-72.70	7.32	13.13	V
	3277	-66.50	-13	-53.50	-82.22	-69.66	8.38	11.54	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	-69.65	-13	-56.65	-78.85	-76.40	5.85	12.60	H
	2443.5	-67.16	-13	-54.16	-80.68	-72.96	7.30	13.10	H
	3258	-66.11	-13	-53.11	-81.76	-69.26	8.35	11.50	H
	1629	-69.96	-13	-56.96	-78.71	-76.71	5.85	12.60	V
	2443.5	-66.89	-13	-53.89	-80.42	-72.69	7.30	13.10	V
	3258	-65.77	-13	-52.77	-81.55	-68.92	8.35	11.50	V

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