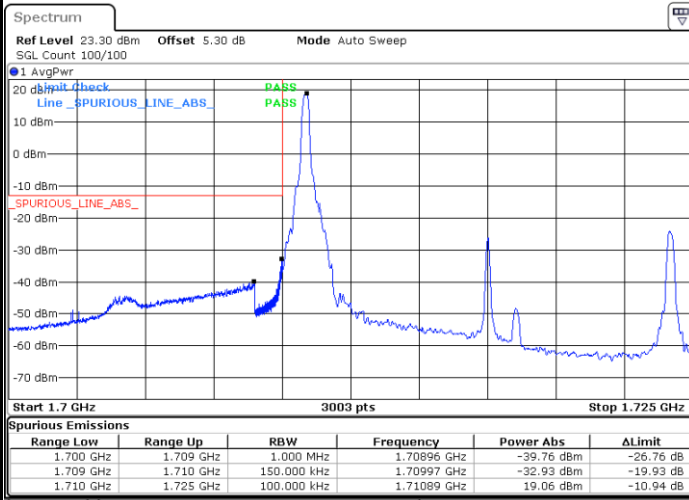


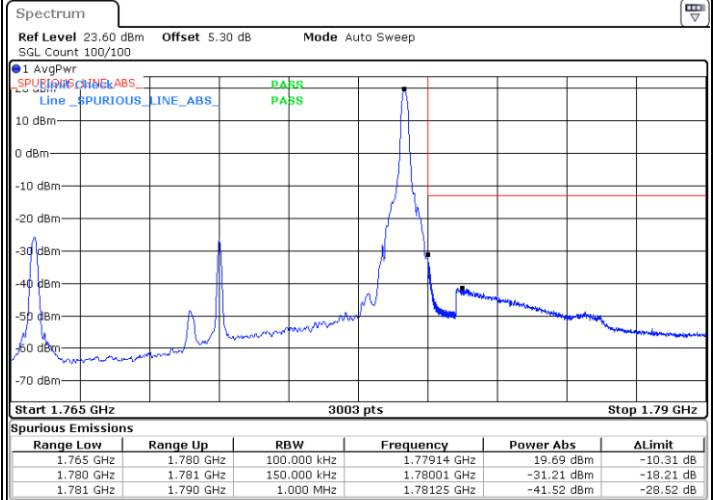


LTE Band 66 / 15MHz / 64QAM

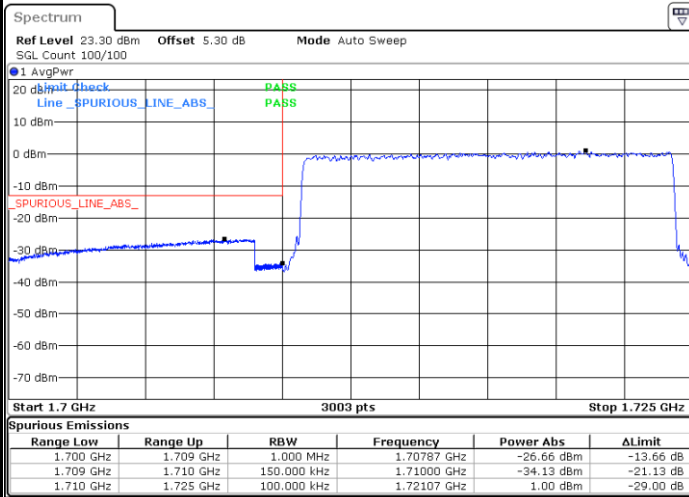
Lowest Band Edge / 1 RB



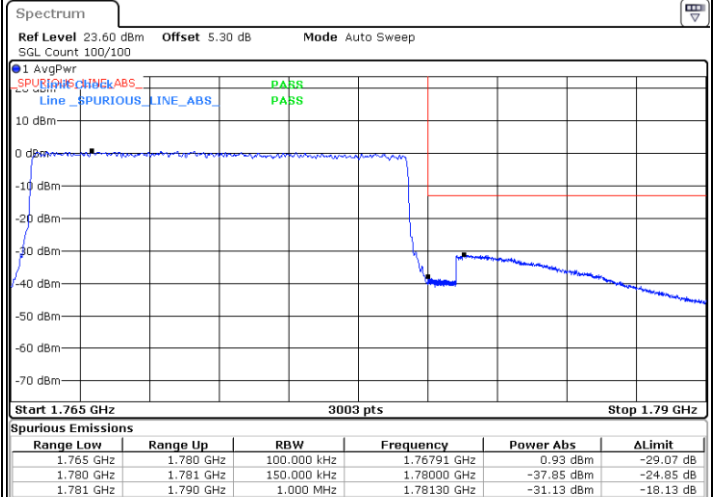
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



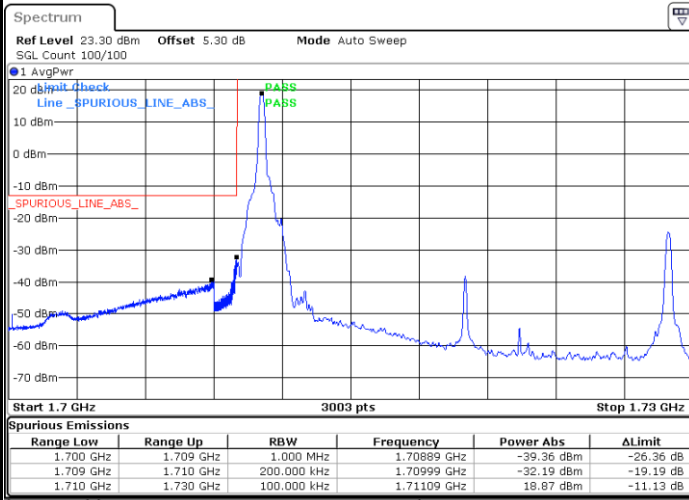
Highest Band Edge / Full RB



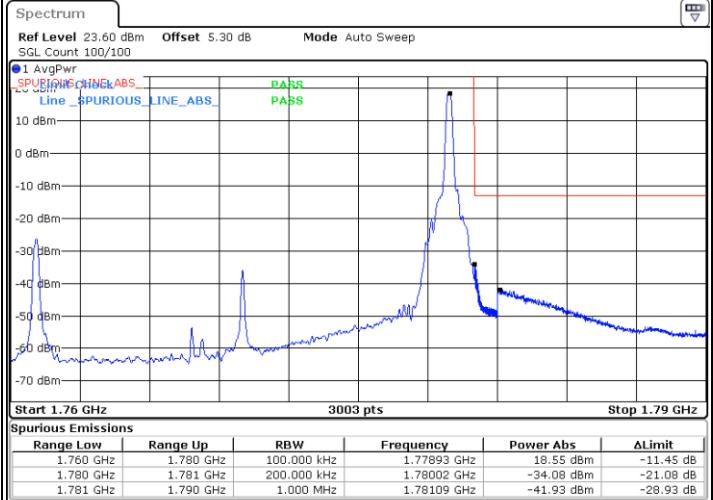


LTE Band 66 / 20MHz / 64QAM

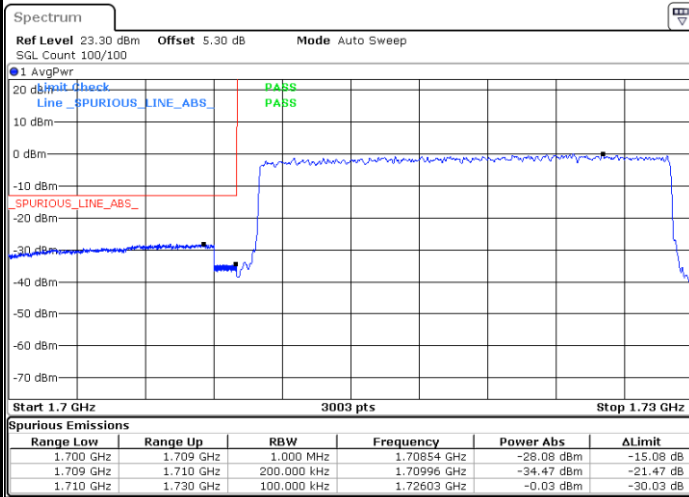
Lowest Band Edge / 1 RB



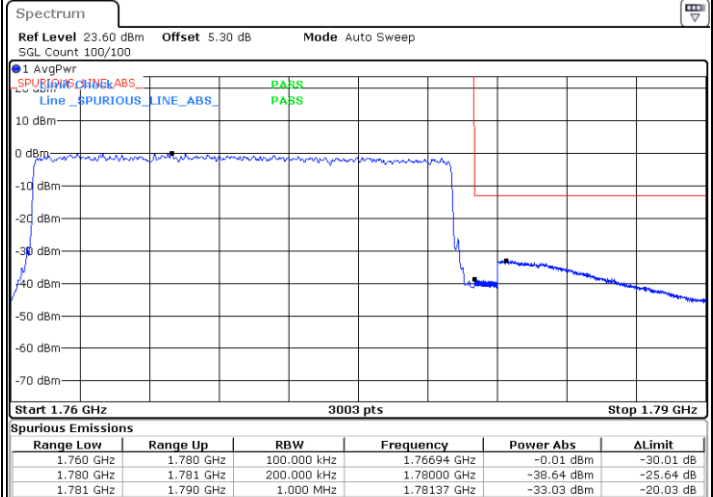
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

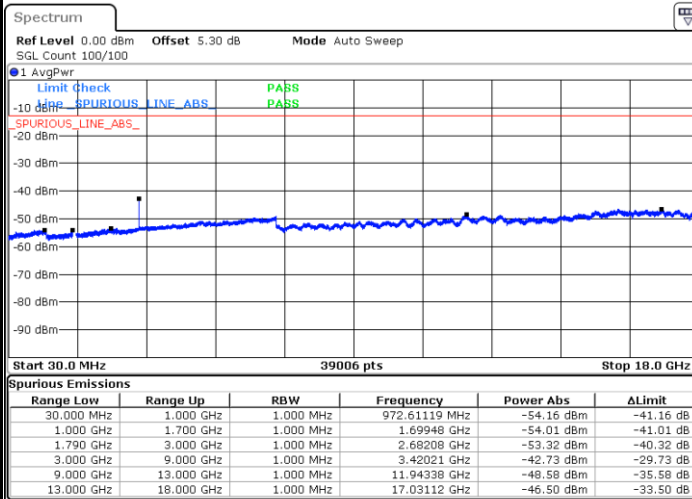




Conducted Spurious Emission

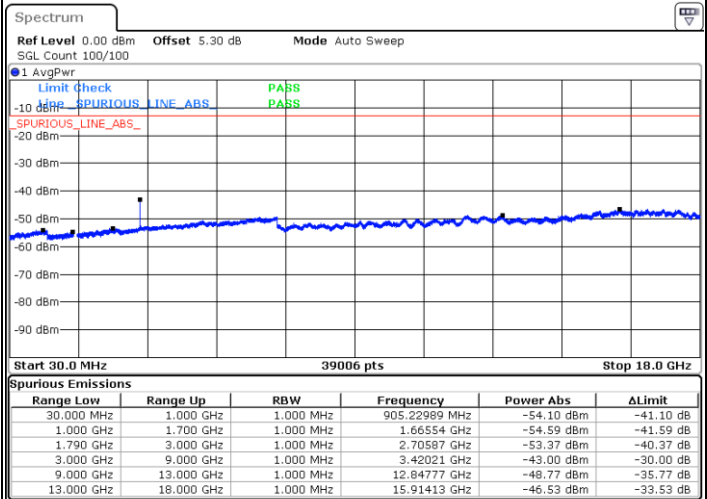
LTE Band 66 / 1.4MHz

Lowest Channel / QPSK



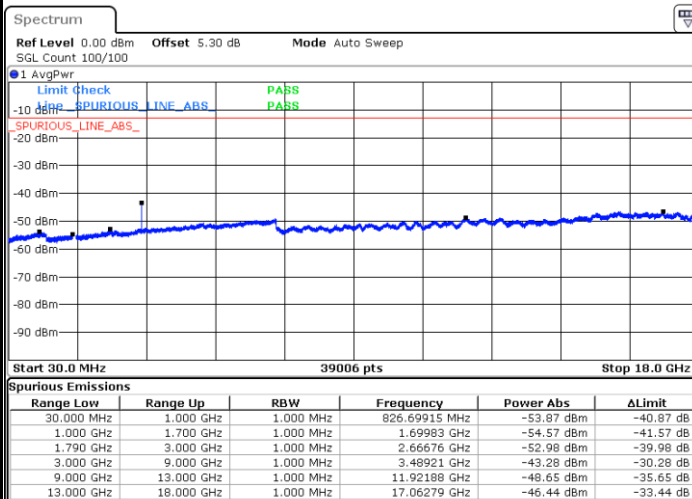
Date: 26 FEB 2020 00:52:48

Lowest Channel / 16QAM



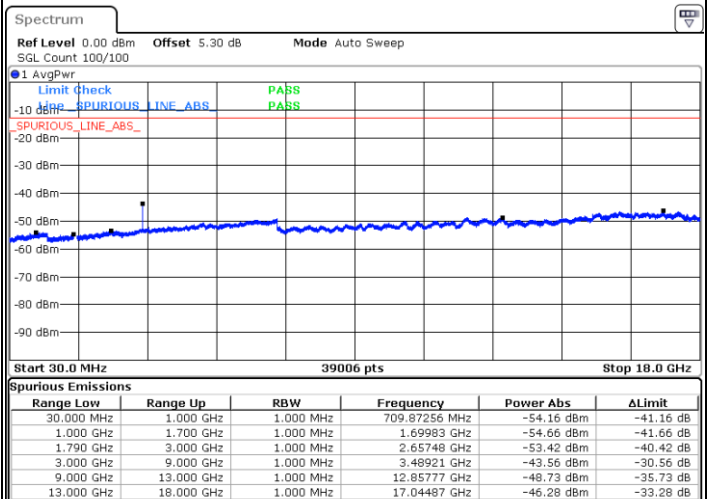
Date: 26 FEB 2020 00:49:20

Middle Channel / QPSK



Date: 25 FEB 2020 22:31:45

Middle Channel / 16QAM

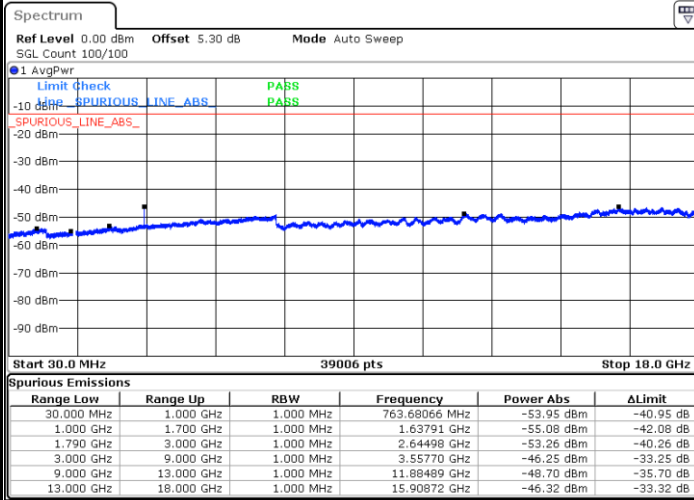


Date: 25 FEB 2020 22:33:10



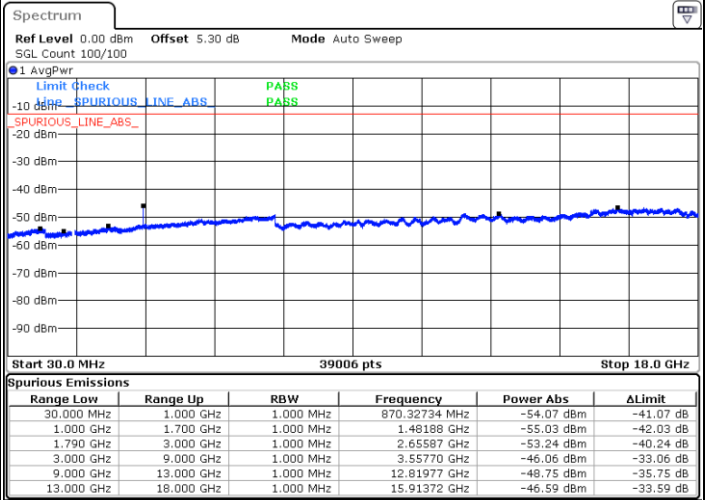
LTE Band 66 / 1.4MHz

Highest Channel / QPSK



Date: 26 FEB 2020 00:55:36

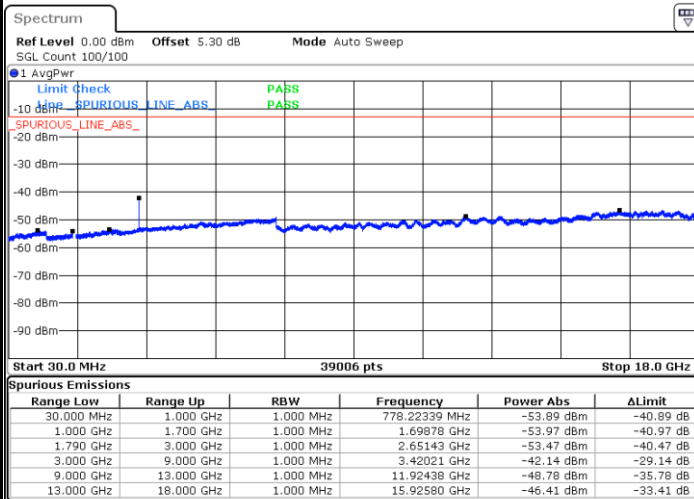
Highest Channel / 16QAM



Date: 26 FEB 2020 00:57:52

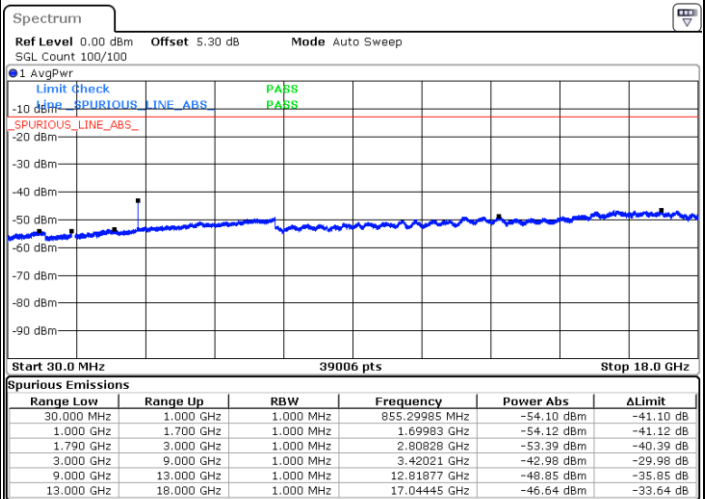
LTE Band 66 / 3MHz

Lowest Channel / QPSK



Date: 26 FEB 2020 01:19:52

Lowest Channel / 16QAM

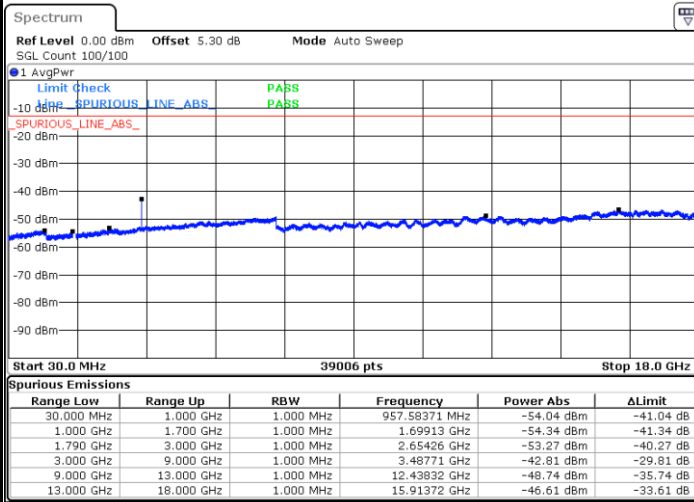


Date: 26 FEB 2020 01:18:28



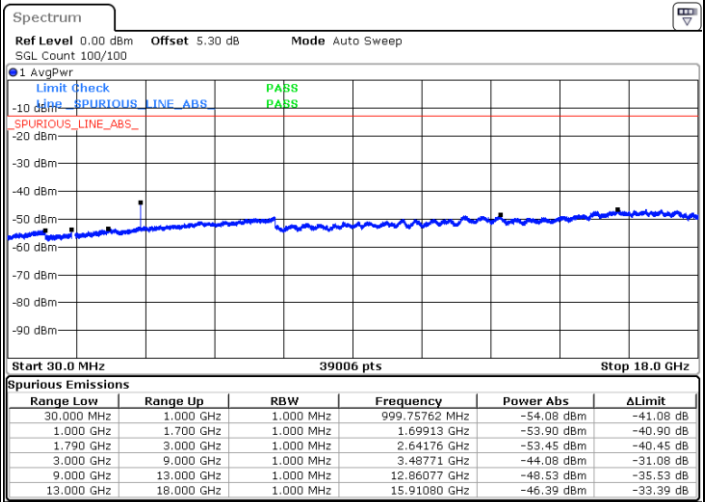
LTE Band 66 / 3MHz

Middle Channel / QPSK



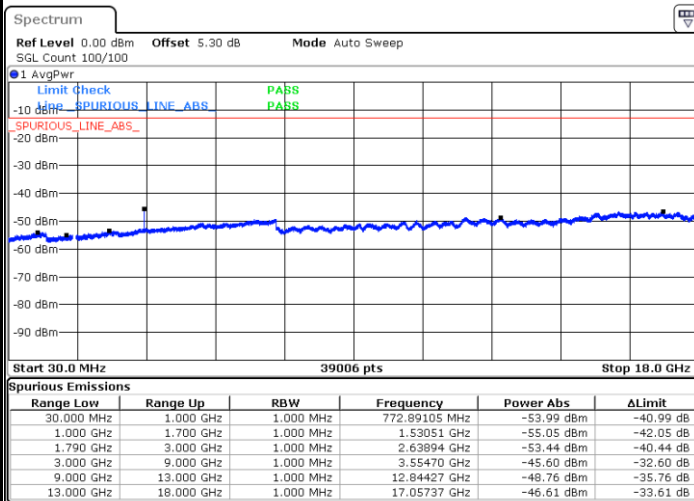
Date: 26 FEB 2020 01:12:04

Middle Channel / 16QAM



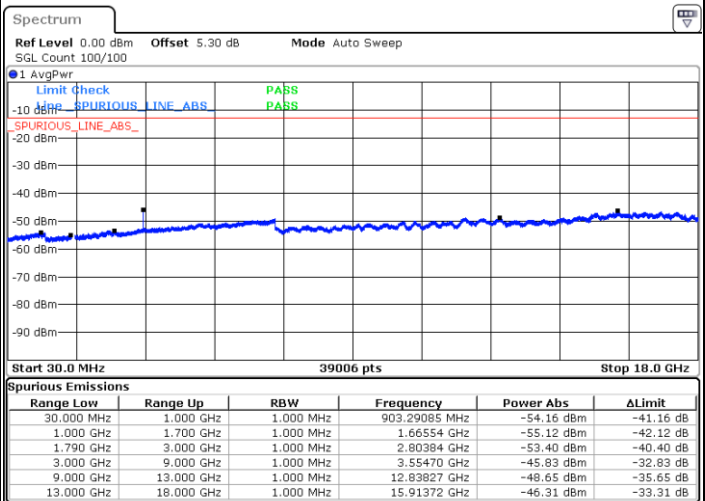
Date: 26 FEB 2020 01:13:25

Highest Channel / QPSK



Date: 26 FEB 2020 01:38:21

Highest Channel / 16QAM

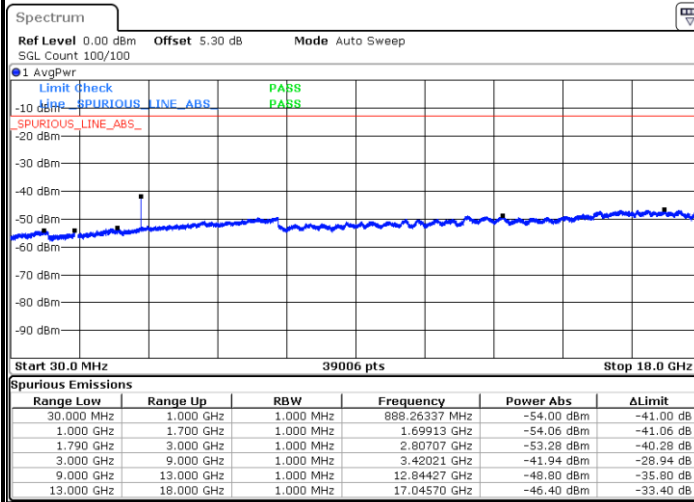


Date: 26 FEB 2020 01:37:44



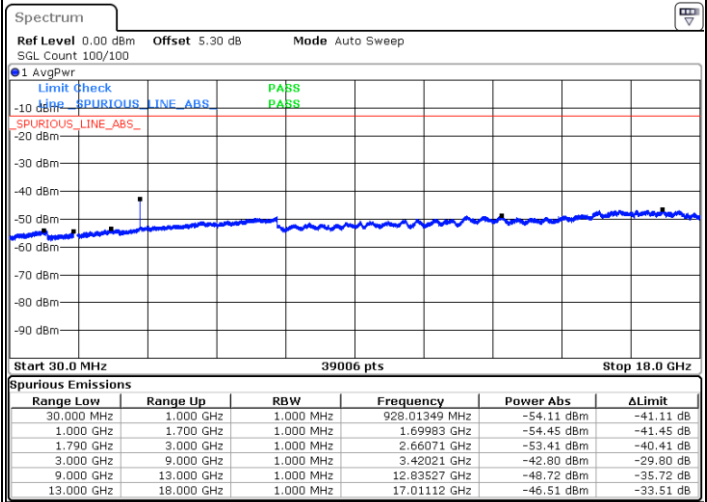
LTE Band 66 / 5MHz

Lowest Channel / QPSK



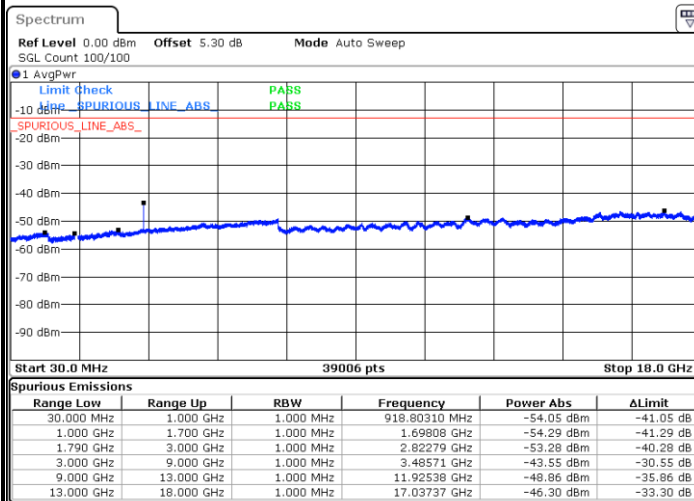
Date: 26 FEB 2020 02:17:08

Lowest Channel / 16QAM



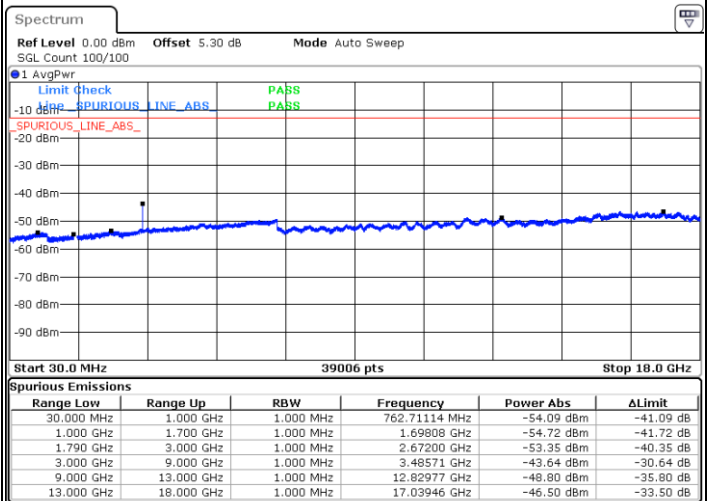
Date: 26 FEB 2020 02:15:53

Middle Channel / QPSK



Date: 26 FEB 2020 01:42:00

Middle Channel / 16QAM

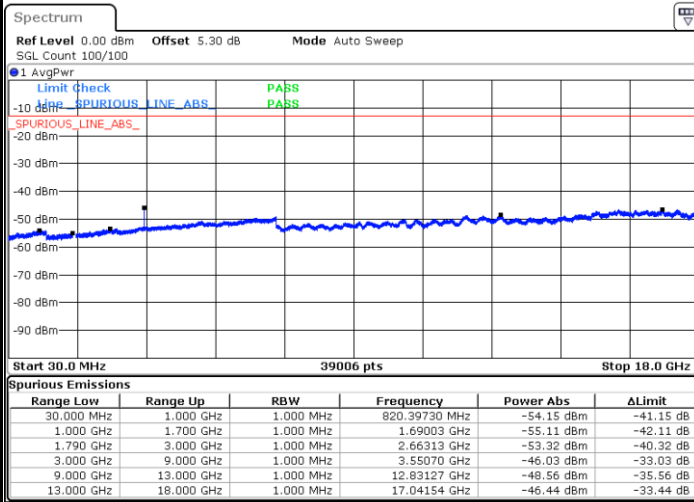


Date: 26 FEB 2020 01:43:02



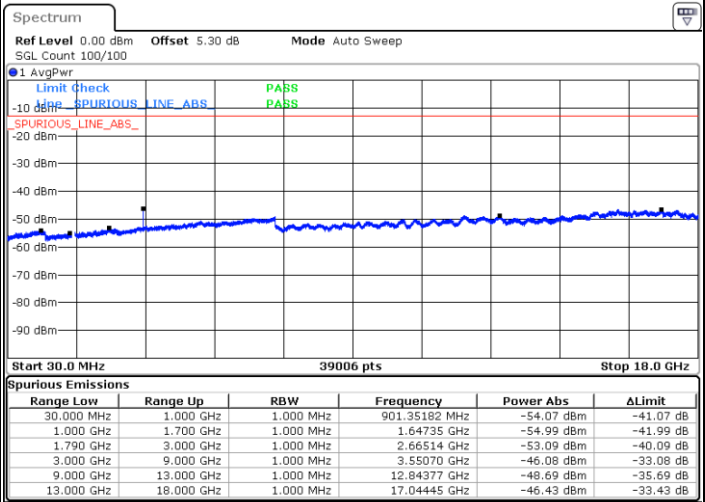
LTE Band 66 / 5MHz

Highest Channel / QPSK



Date: 26 FEB 2020 02:19:52

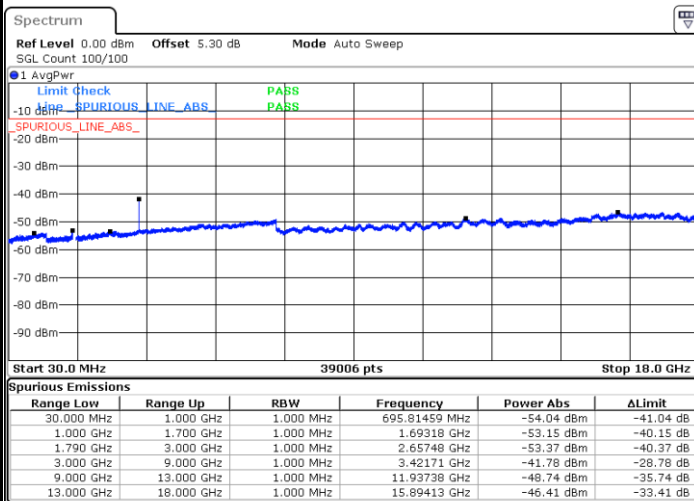
Highest Channel / 16QAM



Date: 26 FEB 2020 02:21:33

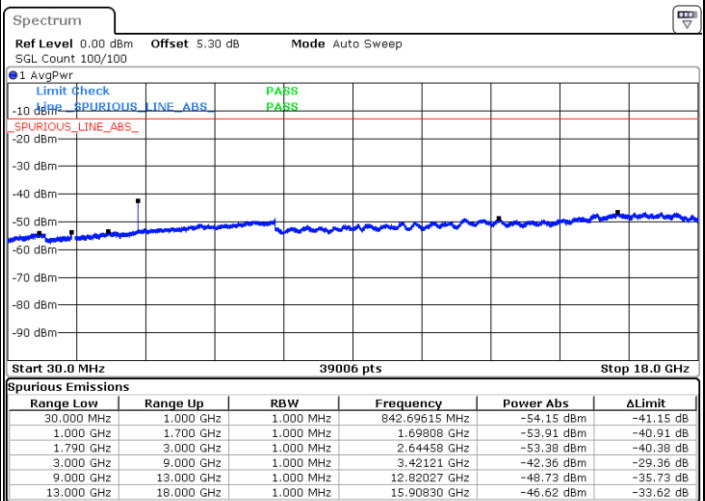
LTE Band 66 / 10MHz

Lowest Channel / QPSK



Date: 26 FEB 2020 03:18:13

Lowest Channel / 16QAM

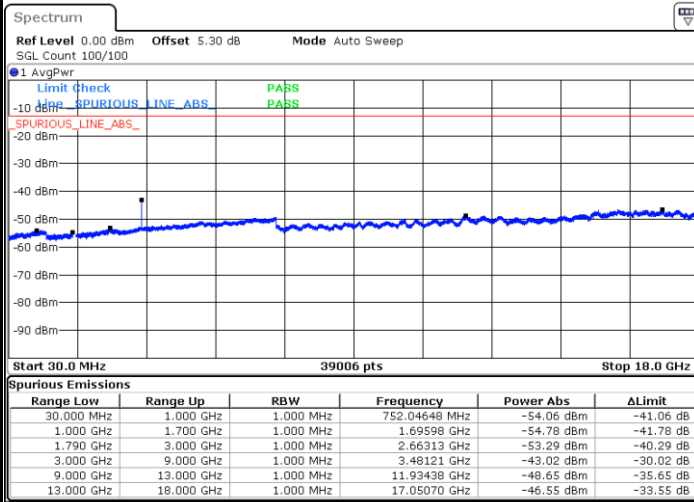


Date: 26 FEB 2020 03:19:40



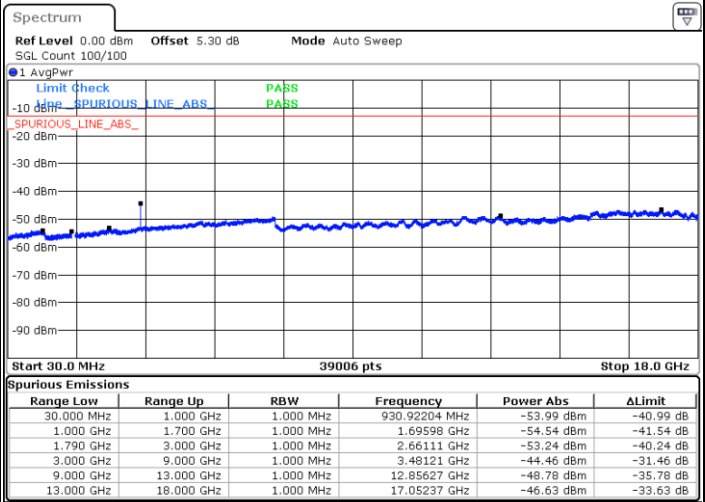
LTE Band 66 / 10MHz

Middle Channel / QPSK



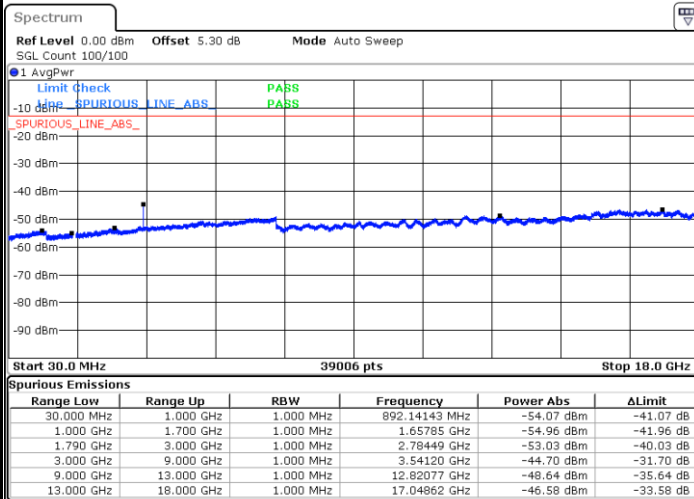
Date: 26 FEB 2020 03:26:30

Middle Channel / 16QAM



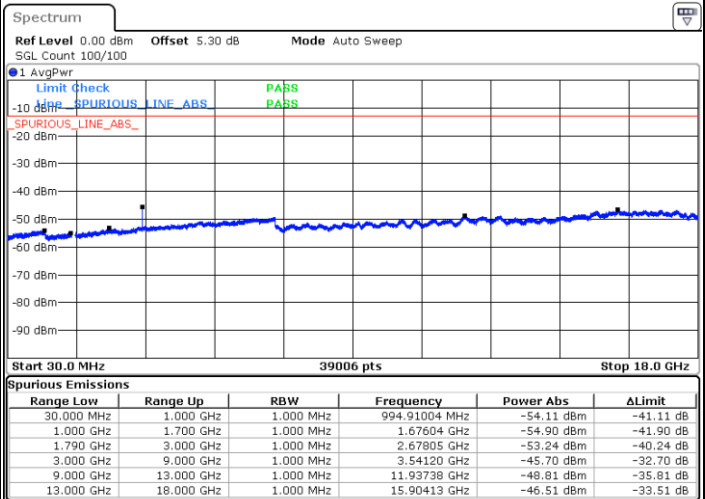
Date: 26 FEB 2020 03:24:31

Highest Channel / QPSK



Date: 26 FEB 2020 03:37:06

Highest Channel / 16QAM

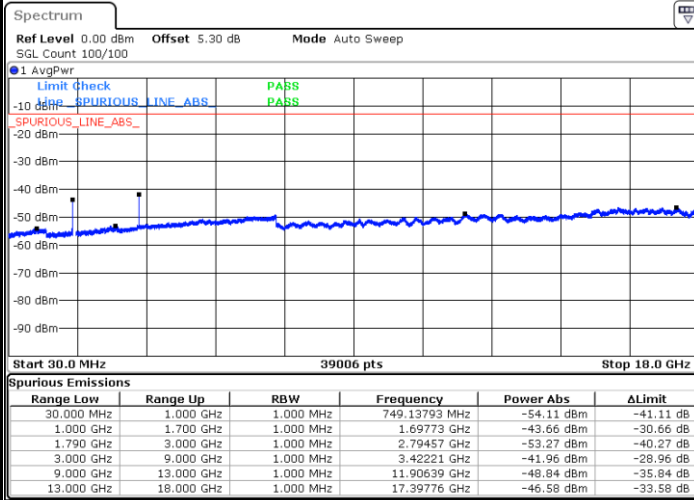


Date: 26 FEB 2020 03:44:09



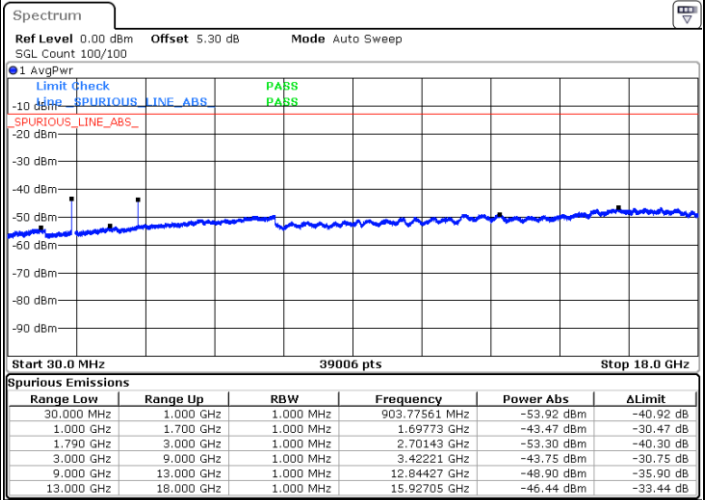
LTE Band 66 / 15MHz

Lowest Channel / QPSK



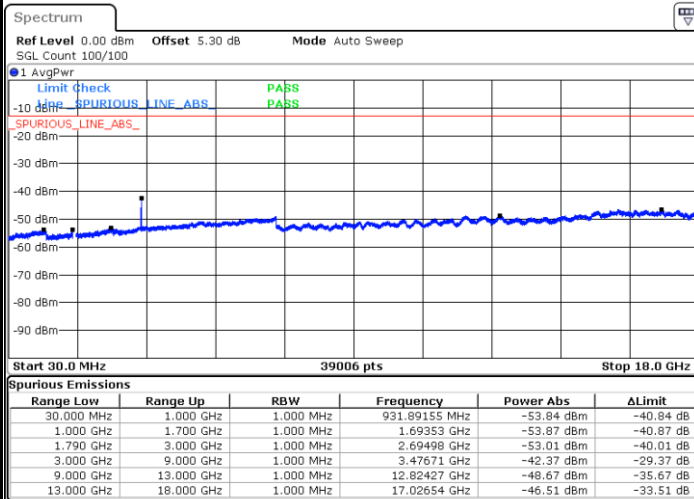
Date: 26 FEB 2020 04:25:58

Lowest Channel / 16QAM



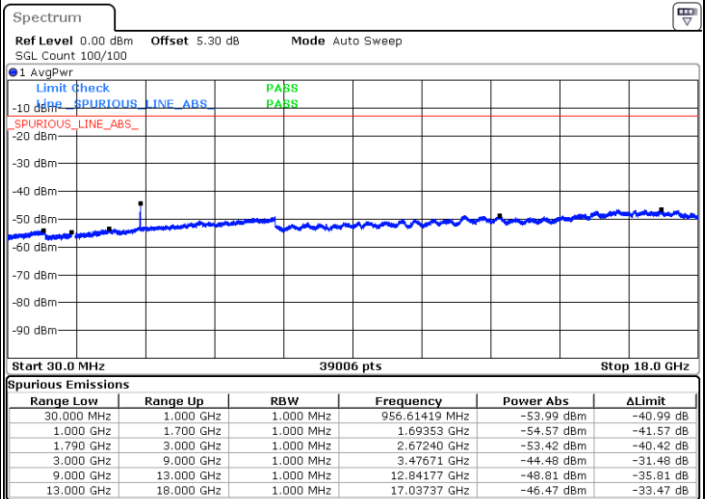
Date: 26 FEB 2020 04:19:25

Middle Channel / QPSK



Date: 26 FEB 2020 04:29:40

Middle Channel / 16QAM

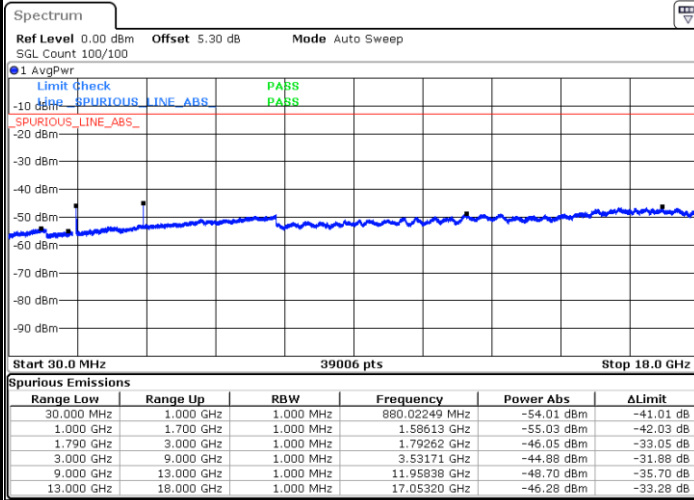


Date: 26 FEB 2020 04:36:38



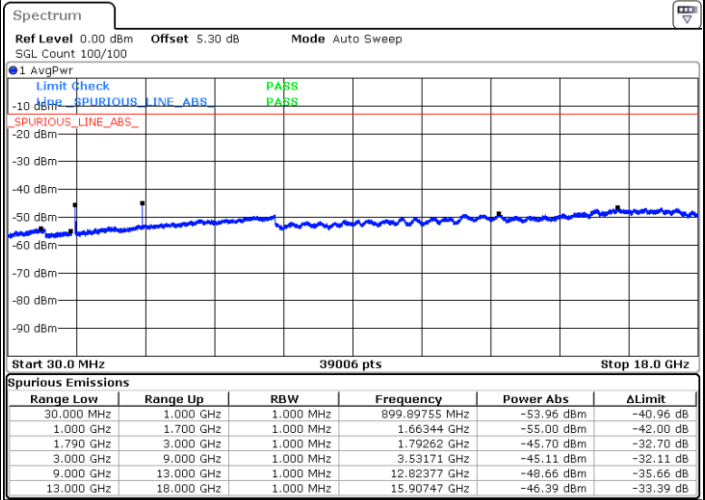
LTE Band 66 / 15MHz

Highest Channel / QPSK



Date: 26 FEB 2020 04:50:13

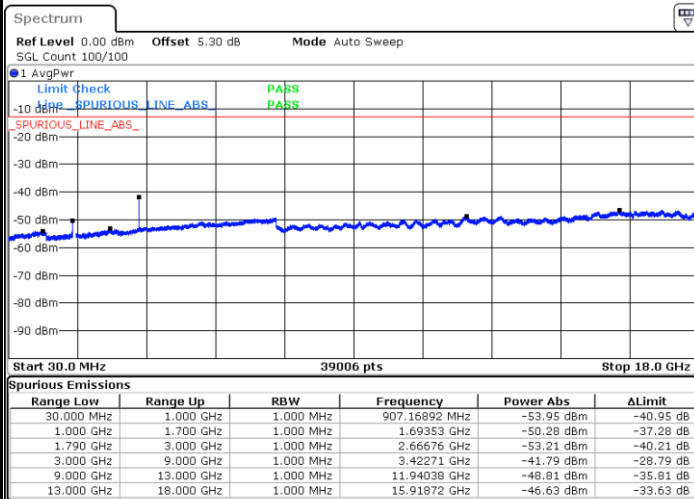
Highest Channel / 16QAM



Date: 26 FEB 2020 04:45:07

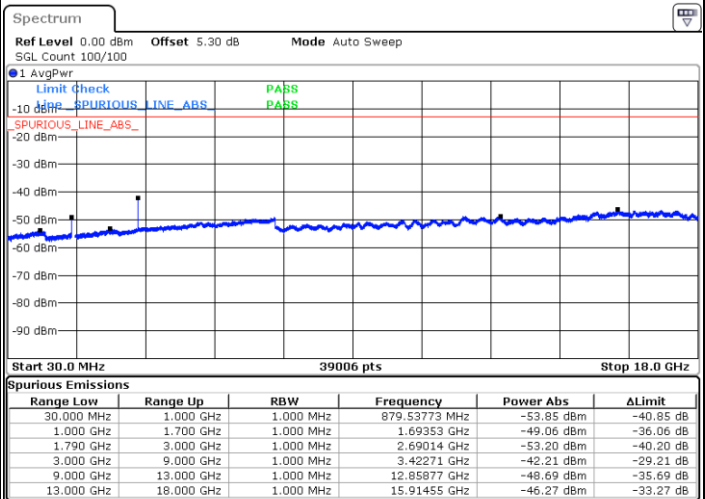
LTE Band 66 / 20MHz

Lowest Channel / QPSK



Date: 26 FEB 2020 05:16:30

Lowest Channel / 16QAM

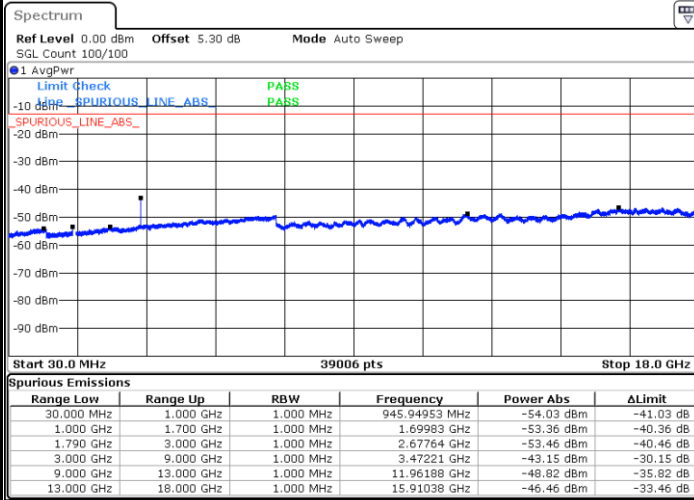


Date: 26 FEB 2020 05:13:43



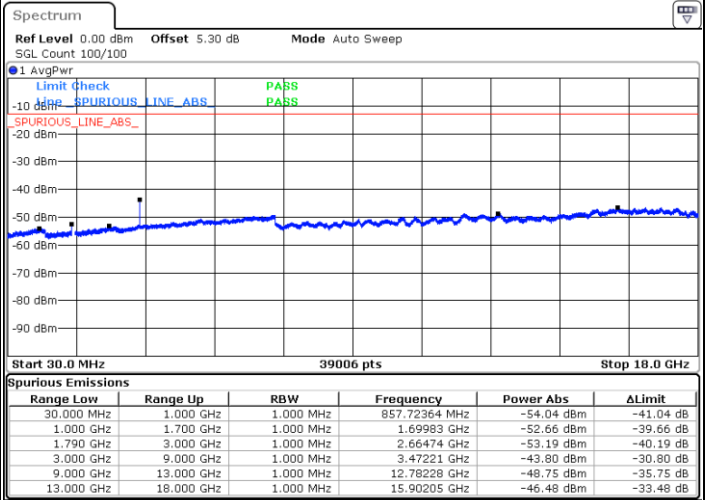
LTE Band 66 / 20MHz

Middle Channel / QPSK



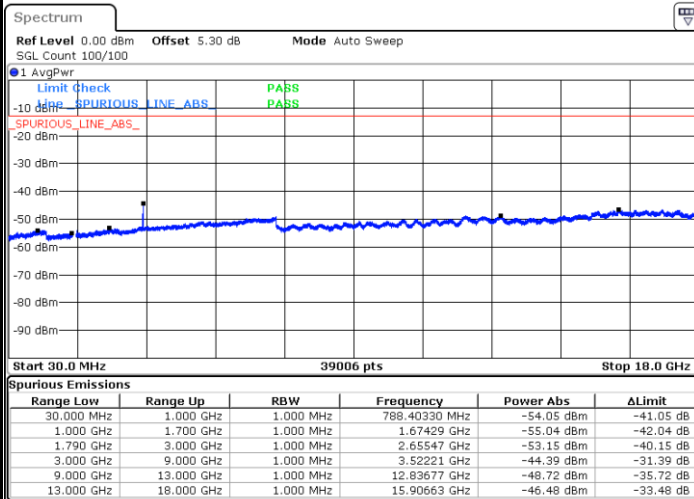
Date: 26 FEB 2020 05:19:43

Middle Channel / 16QAM



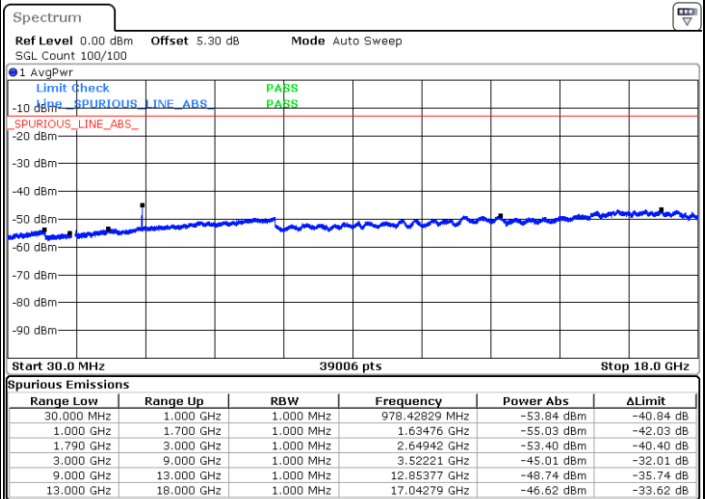
Date: 26 FEB 2020 05:20:35

Highest Channel / QPSK



Date: 26 FEB 2020 05:29:13

Highest Channel / 16QAM

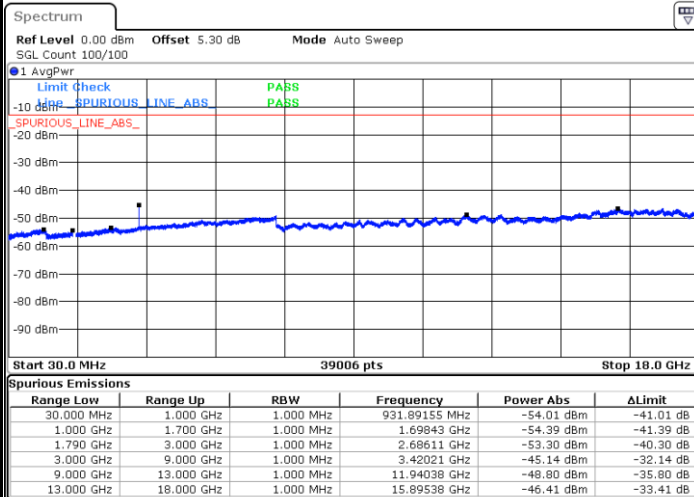


Date: 26 FEB 2020 05:27:48



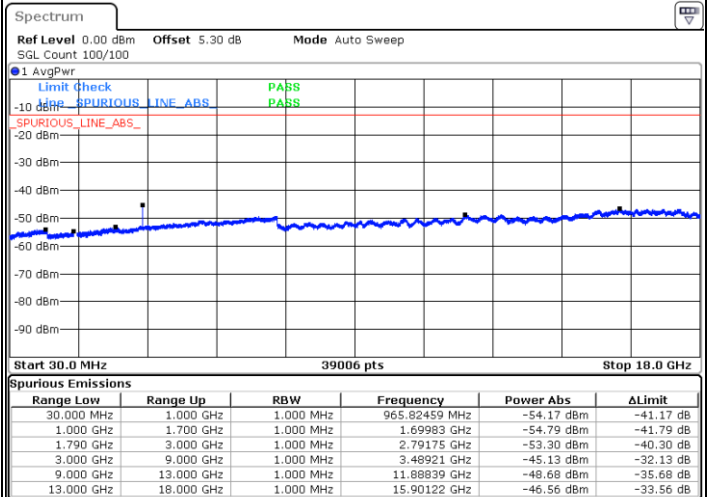
LTE Band 66 / 1.4MHz

Lowest Channel / 64QAM



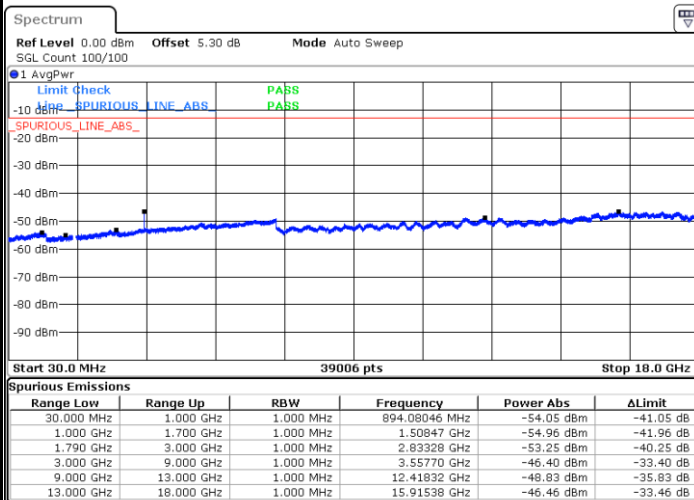
Date: 26 FEB 2020 00:07:24

Middle Channel / 64QAM



Date: 25 FEB 2020 22:33:59

Highest Channel / 64QAM

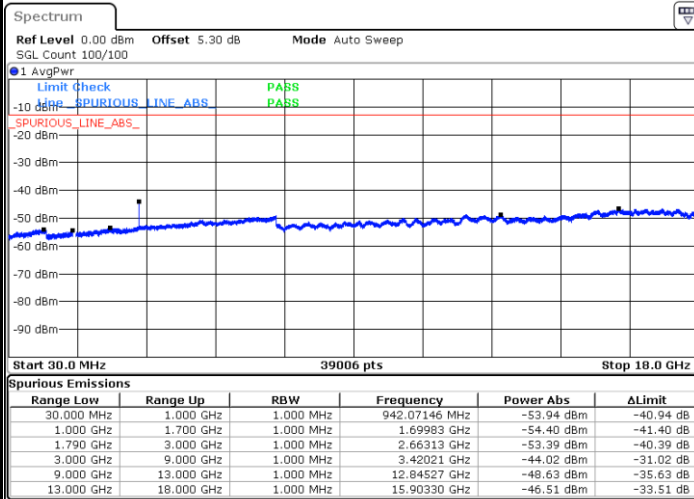


Date: 26 FEB 2020 00:58:47



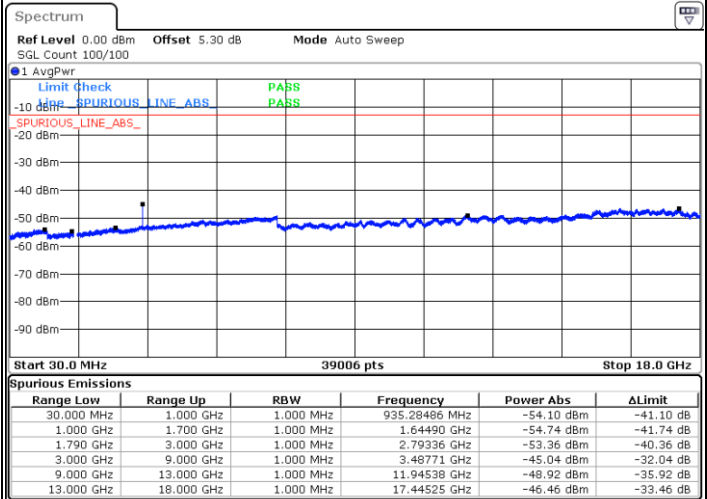
LTE Band 66 / 3MHz

Lowest Channel / 64QAM



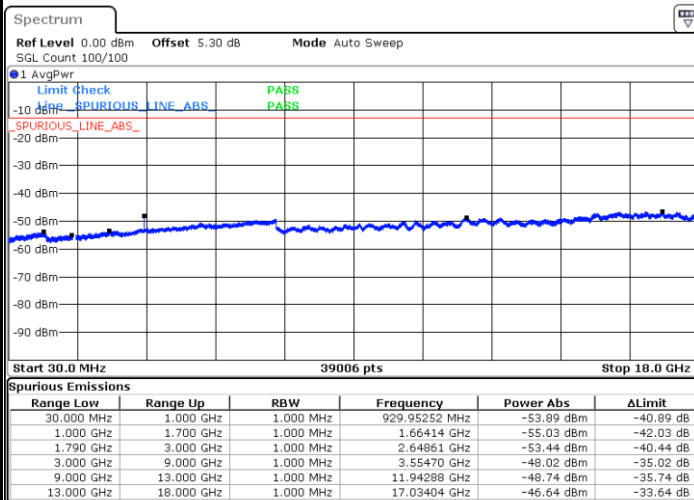
Date: 26 FEB 2020 01:15:44

Middle Channel / 64QAM



Date: 26 FEB 2020 01:14:24

Highest Channel / 64QAM

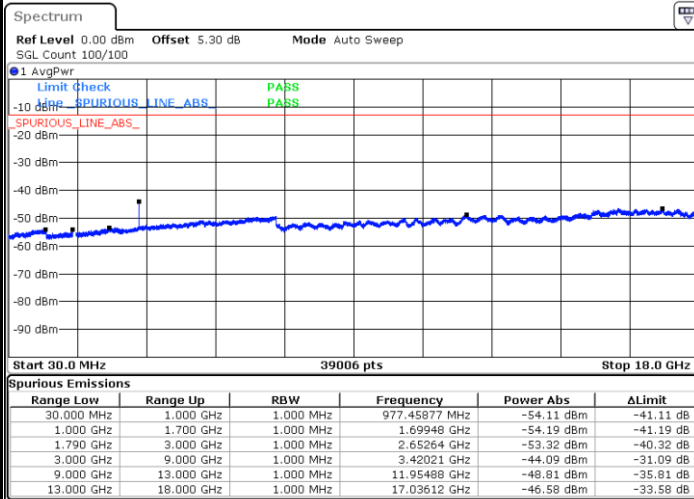


Date: 26 FEB 2020 01:35:28



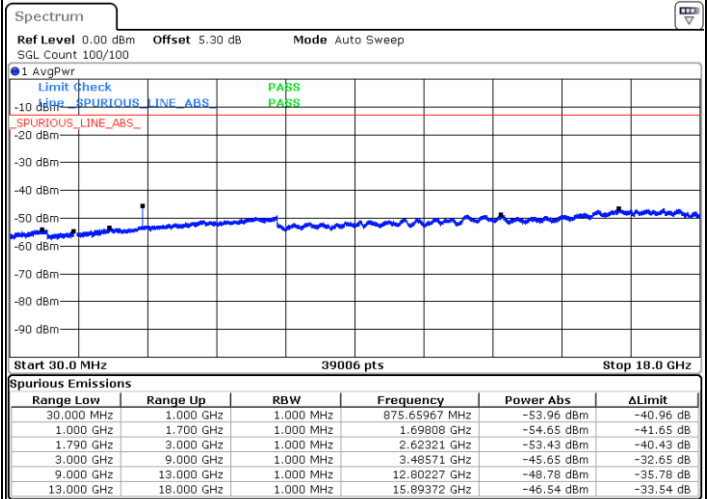
LTE Band 66 / 5MHz

Lowest Channel / 64QAM



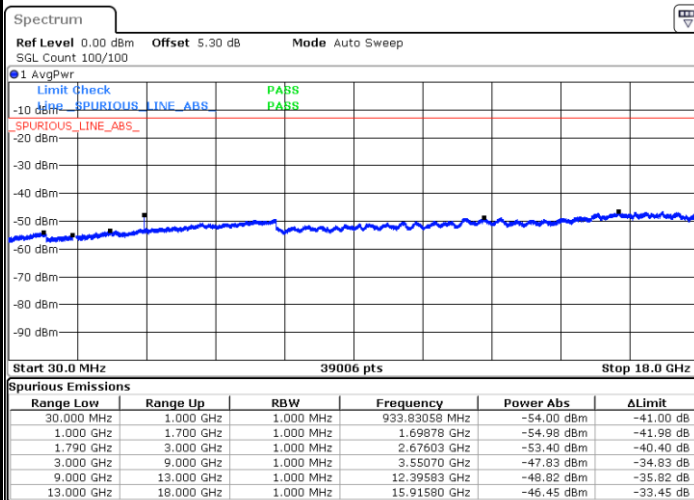
Date: 26 FEB 2020 02:14:50

Middle Channel / 64QAM



Date: 26 FEB 2020 01:45:08

Highest Channel / 64QAM

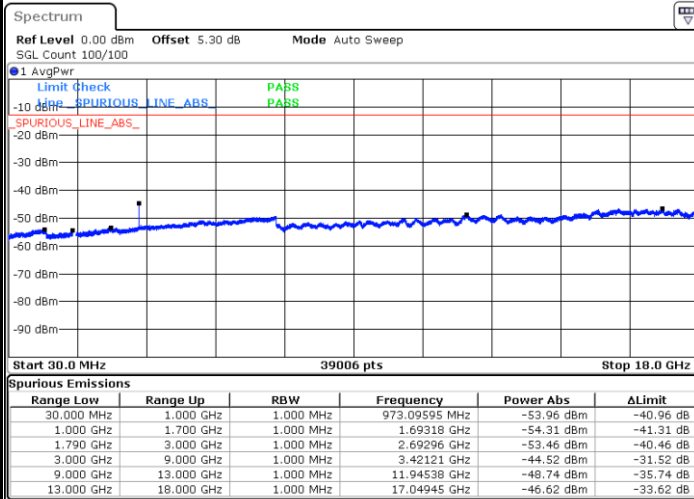


Date: 26 FEB 2020 02:25:07



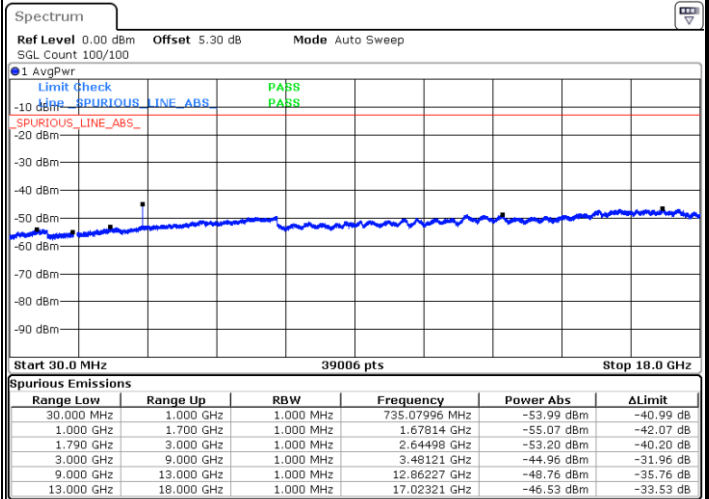
LTE Band 66 / 10MHz

Lowest Channel / 64QAM



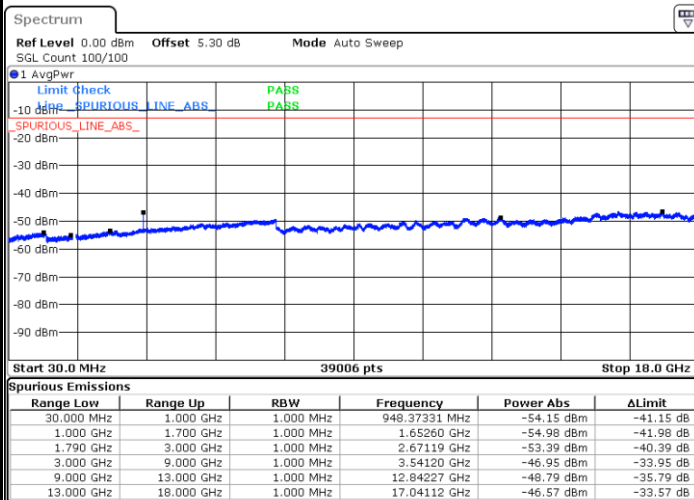
Date: 26 FEB 2020 03:21:31

Middle Channel / 64QAM



Date: 26 FEB 2020 03:22:55

Highest Channel / 64QAM

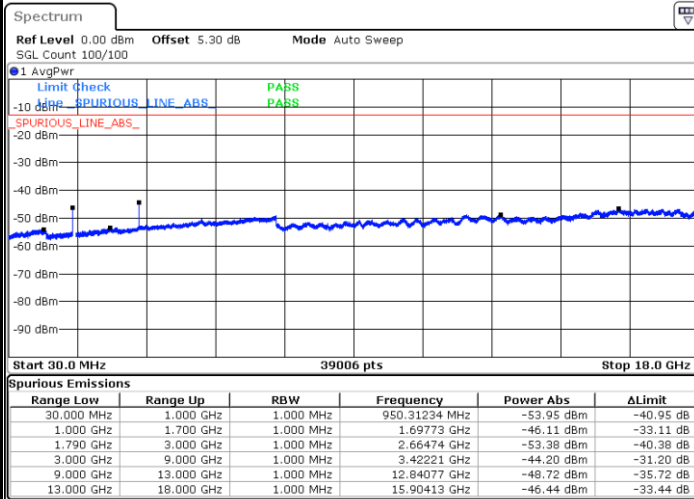


Date: 26 FEB 2020 03:45:45



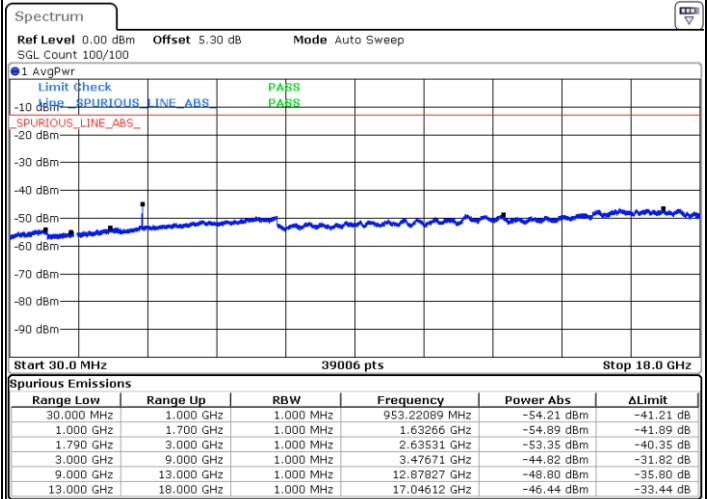
LTE Band 66 / 15MHz

Lowest Channel / 64QAM



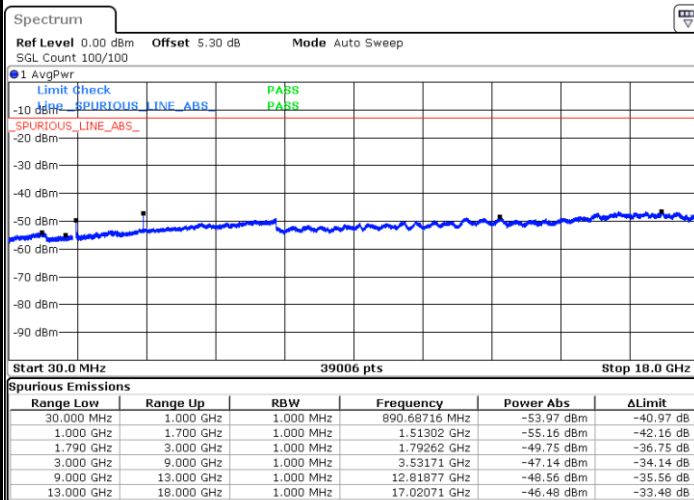
Date: 26 FEB 2020 03:59:41

Middle Channel / 64QAM



Date: 26 FEB 2020 04:37:21

Highest Channel / 64QAM

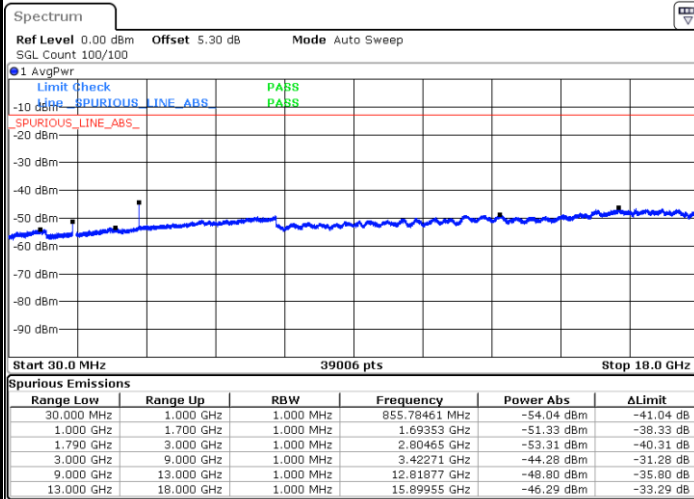


Date: 26 FEB 2020 04:43:16



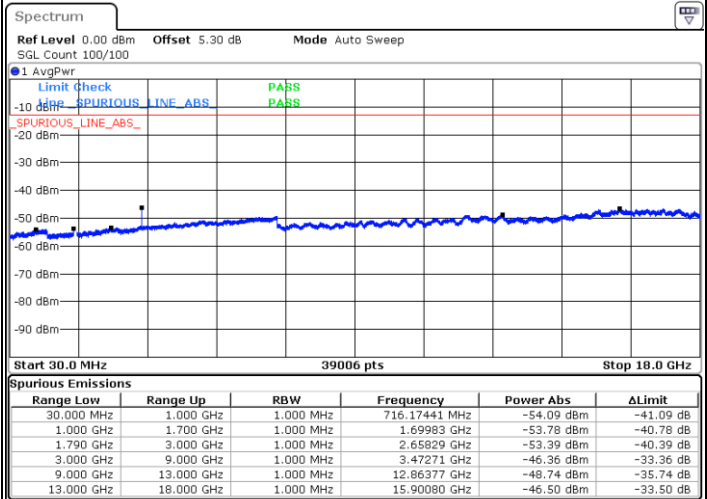
LTE Band 66 / 20MHz

Lowest Channel / 64QAM



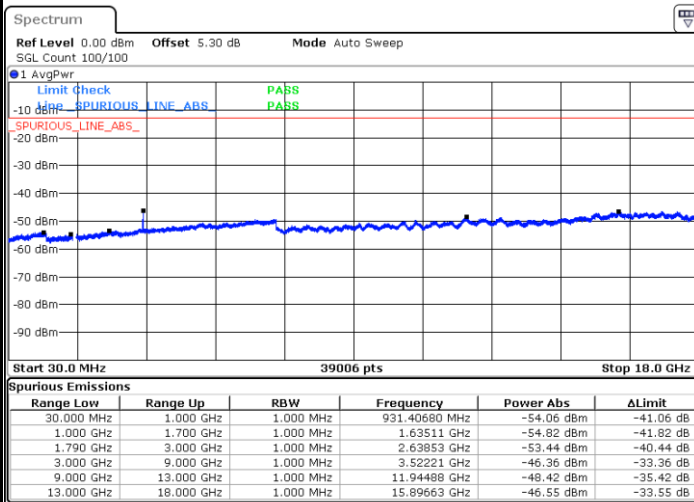
Date: 26 FEB 2020 05:15:01

Middle Channel / 64QAM



Date: 26 FEB 2020 05:22:09

Highest Channel / 64QAM



Date: 26 FEB 2020 05:26:34

Frequency Stability

Test Conditions		LTE Band 66 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0052	PASS
40	Normal Voltage	0.0065	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0014	
0	Normal Voltage	0.0035	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0020	
-30	Normal Voltage	0.0035	
20	Maximum Voltage	0.0069	
20	Normal Voltage	0.0016	
20	Battery End Point	0.0057	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

For Sample 1

LTE Band 2 / 20MHz / QPSK								
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)
Middle	3741	-46.65	-13	-33.65	-58.91	2.641	14.90	H
	5613.27	-55.45	-13	-42.45	-67.31	2.94	14.80	H
	7484.36	-50.65	-13	-37.65	-60.42	3.39	13.16	H
	3741	-48.06	-13	-35.06	-60.32	2.64	14.90	V
	5613.27	-55.00	-13	-42.00	-66.86	2.94	14.80	V
	7484.36	-49.85	-13	-36.85	-59.62	3.39	13.16	V

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

LTE Band 5 / 10MHz / QPSK								
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)
Middle	1664	-64.94	-13	-51.94	-71.91	1.58	10.70	H
	2496	-60.96	-13	-47.96	-69.21	2.102	12.50	H
	3330	-63.75	-13	-50.75	-72.64	2.856	13.90	H
	1664	-60.46	-13	-47.46	-67.43	1.58	10.70	V
	2496	-59.41	-13	-46.41	-67.66	2.10	12.50	V
	3330	-63.70	-13	-50.70	-72.59	2.86	13.90	V

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

LTE Band 7 / 20MHz / QPSK								
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)
Middle	5052	-61.08	-25	-36.08	-71.29	3.03	13.24	H
	7580	-58.58	-25	-33.58	-68.03	3.56	13.01	H
	10104.36	-58.69	-25	-33.69	-68.21	3.92	13.44	H
	5052	-58.09	-25	-33.09	-68.30	3.03	13.24	V
	7580	-57.76	-25	-32.76	-67.21	3.56	13.01	V
	10104.36	-59.10	-25	-34.10	-68.62	3.92	13.44	V

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



LTE Band 12 / 10MHz / QPSK								
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)
Middle	1406	-61.03	-13	-48.03	-68.00	1.58	10.70	H
	2110	-66.16	-13	-53.16	-74.41	2.102	12.50	H
	2812	-63.51	-13	-50.51	-72.40	2.856	13.90	H
	1406	-63.09	-13	-50.09	-70.06	1.58	10.70	V
	2110	-65.49	-13	-52.49	-73.74	2.10	12.50	V
	2812	-63.10	-13	-50.10	-71.99	2.86	13.90	V

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

LTE Band 13 / 5MHz / QPSK								
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)
Middle	1560	-66.70	-42.15	-24.55	-69.33	1.09	5.87	H
	2339.52	-64.87	-13	-51.87	-67.27	1.37	5.92	H
	3120	-63.18	-13	-50.18	-67.07	1.64	7.68	H
	1560	-66.66	-42.15	-24.51	-69.29	1.09	5.87	V
	2340	-64.17	-13	-51.17	-66.57	1.37	5.92	V
	3120	-63.26	-13	-50.26	-67.15	1.64	7.68	V

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

LTE Band 13 / 10MHz / QPSK								
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)
Middle	1556	-66.87	-13	-53.87	-69.50	1.09	5.87	H
	2332.77	-64.59	-13	-51.59	-66.99	1.37	5.92	H
	3110.36	-63.27	-13	-50.27	-67.16	1.64	7.68	H
	1556	-66.62	-13	-53.62	-69.25	1.09	5.87	V
	2332.77	-63.58	-13	-50.58	-65.98	1.37	5.92	V
	3110.36	-63.22	-13	-50.22	-67.11	1.64	7.68	V

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



LTE Band 66 / 20MHz / QPSK								
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)
Middle	3471	-52.00	-13	-39.00	-62.74	2.604	13.34	H
	5208	-56.52	-13	-43.52	-67.03	3.011	13.52	H
	6944.36	-52.78	-13	-39.78	-62.98	3.271	13.47	H
	3471	-54.43	-13	-41.43	-65.17	2.604	13.34	V
	5208	-56.27	-13	-43.27	-66.78	3.011	13.52	V
	6944.36	-52.31	-13	-39.31	-62.51	3.271	13.47	V

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

For Sample 3

LTE Band 2 / 20MHz / QPSK								
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)
Middle	3741	-55.81	-13	-42.81	-68.07	2.64	14.90	H
	5613	-54.78	-13	-41.78	-66.64	2.94	14.80	H
	7488	-49.71	-13	-36.71	-59.48	3.39	13.16	H
	3741	-55.28	-13	-42.28	-67.54	2.64	14.90	V
	5613	-54.15	-13	-41.15	-66.01	2.94	14.80	V
	7488	-49.24	-13	-36.24	-59.01	3.39	13.16	V

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

LTE Band 66 / 20MHz / QPSK								
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)
Middle	3471	-56.83	-13	-43.83	-67.57	2.604	13.34	H
	5208	-55.83	-13	-42.83	-66.34	3.011	13.52	H
	6948	-51.89	-13	-38.89	-62.09	3.271	13.47	H
	3471	-57.83	-13	-44.83	-68.57	2.604	13.34	V
	5208	-55.86	-13	-42.86	-66.37	3.011	13.52	V
	6948	-51.58	-13	-38.58	-61.78	3.271	13.47	V

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