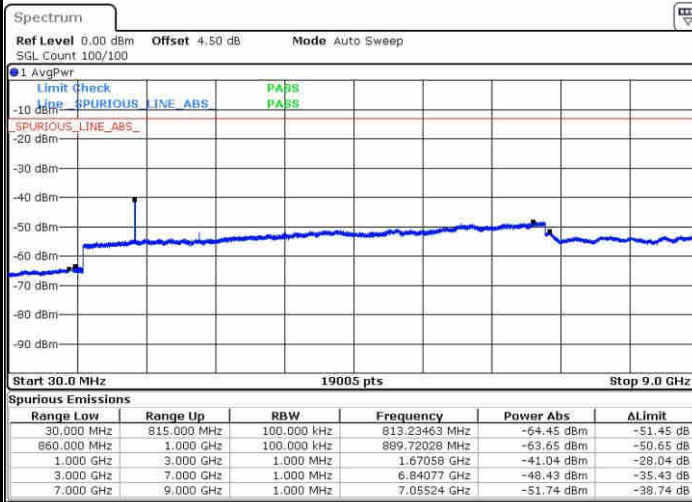




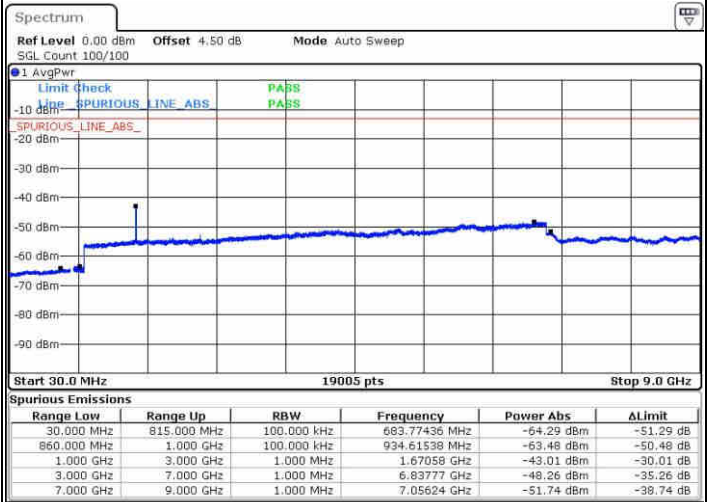
LTE Band 26 / 3MHz

Middle Channel / QPSK



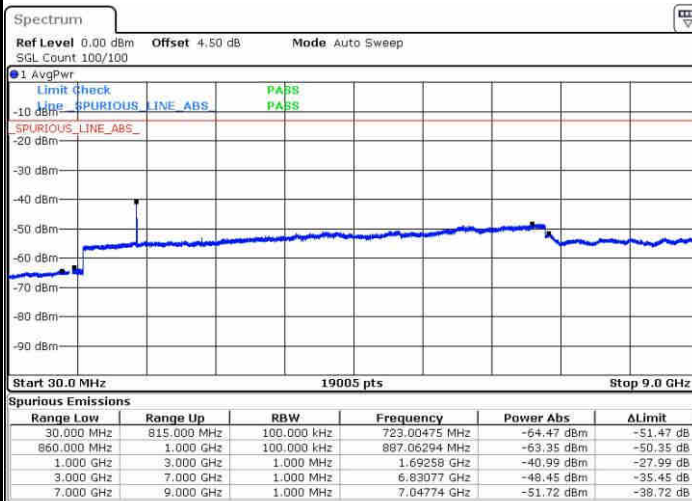
Date: 27.FEB.2019 15:38:45

Middle Channel / 16QAM



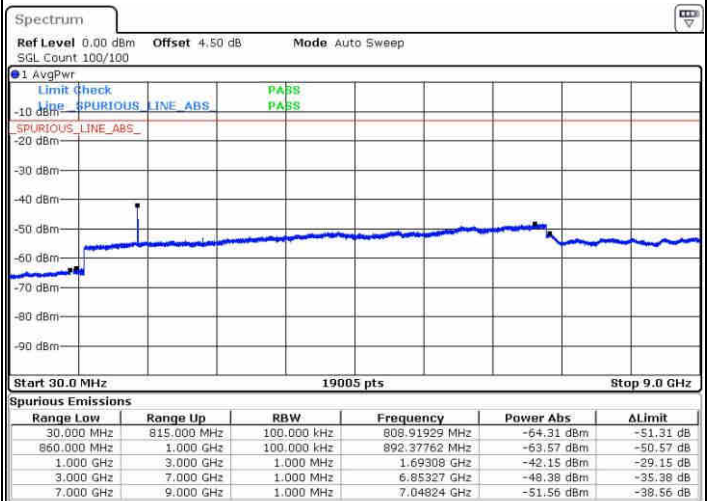
Date: 27.FEB.2019 15:39:06

Highest Channel / QPSK



Date: 27.FEB.2019 15:40:32

Highest Channel / 16QAM

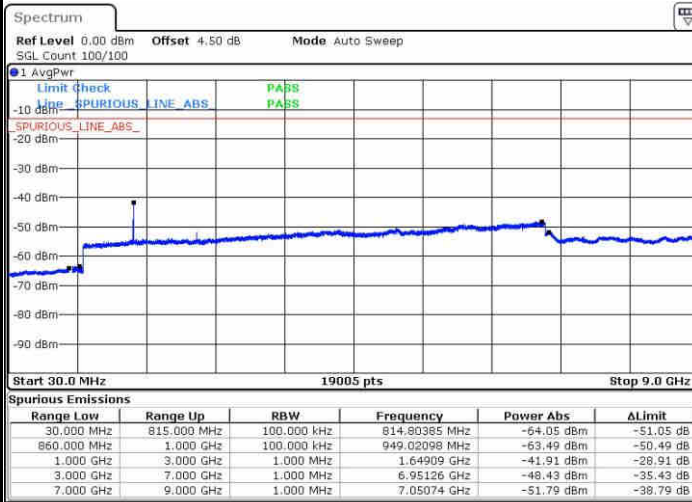


Date: 27.FEB.2019 15:40:10



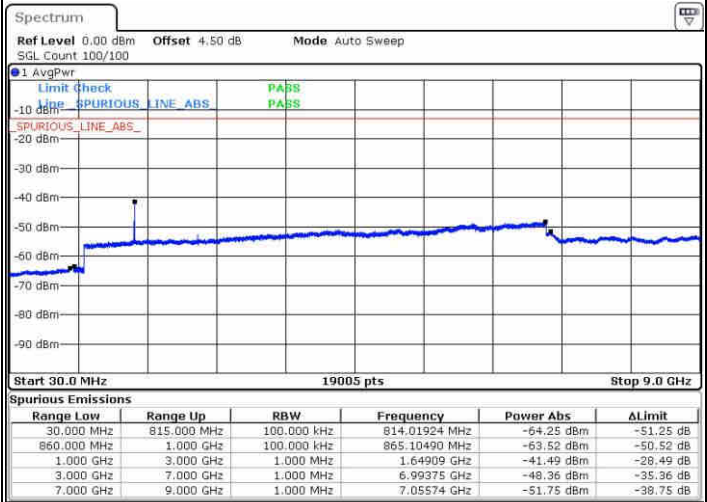
LTE Band 26 / 5MHz

Lowest Channel / QPSK



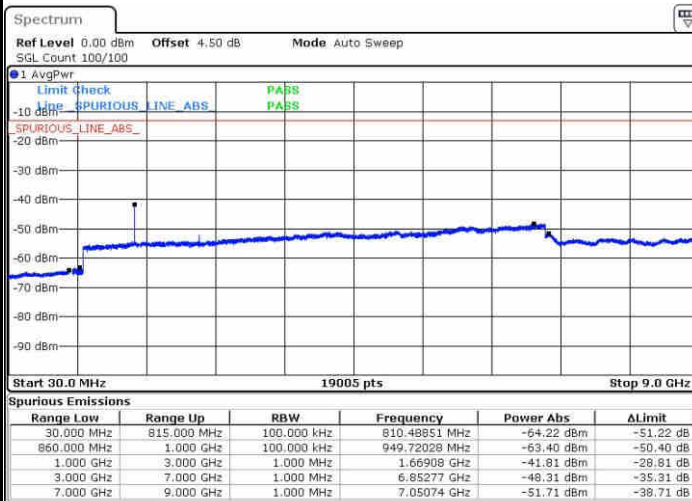
Date: 27.FEB 2019 15:52:35

Lowest Channel / 16QAM



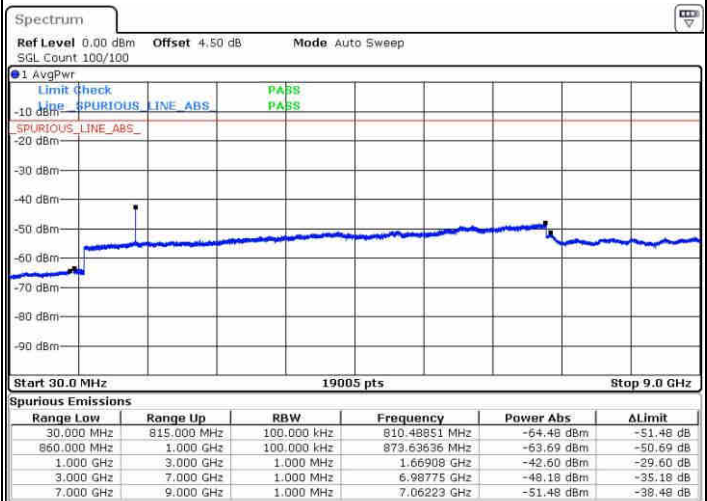
Date: 27.FEB 2019 15:52:56

Middle Channel / QPSK



Date: 27.FEB 2019 15:54:22

Middle Channel / 16QAM

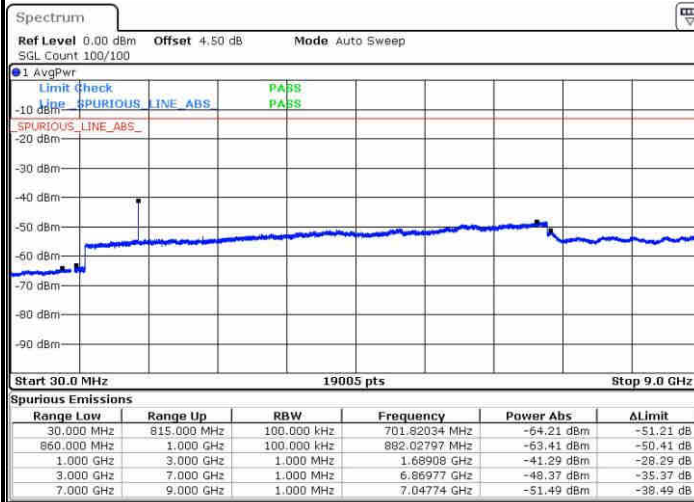


Date: 27.FEB 2019 15:54:00



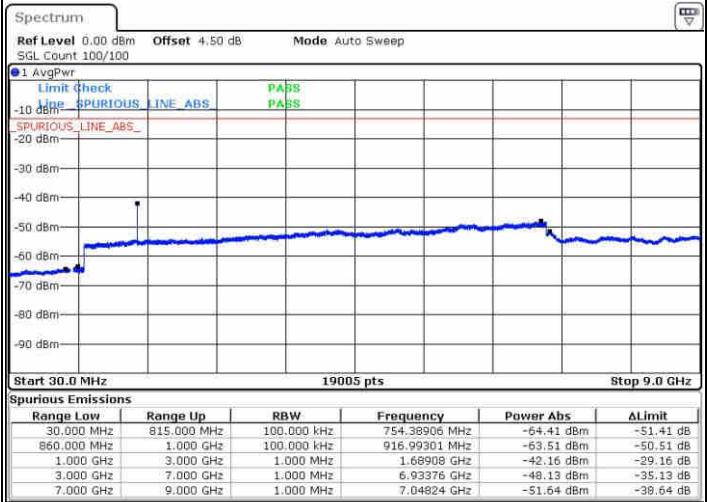
LTE Band 26 / 5MHz

Highest Channel / QPSK



Date: 27.FEB 2019 15:54:43

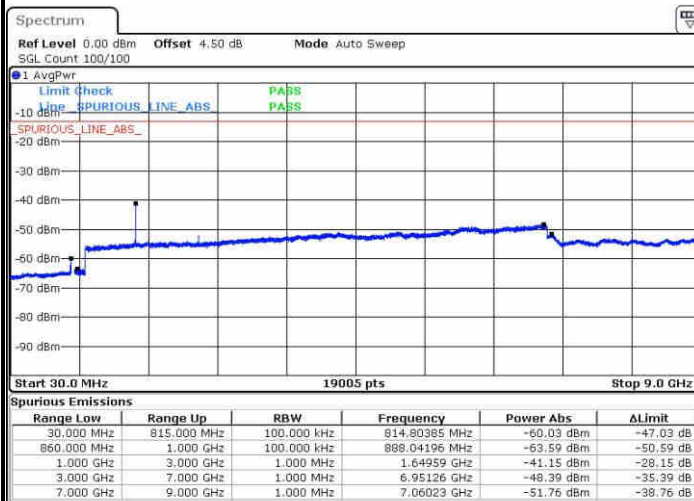
Highest Channel / 16QAM



Date: 27.FEB 2019 15:55:05

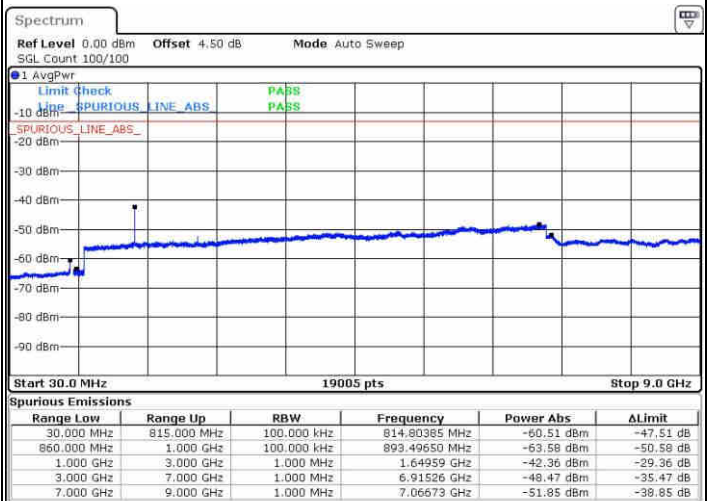
LTE Band 26 / 10MHz

Lowest Channel / QPSK



Date: 27.FEB 2019 16:01:38

Lowest Channel / 16QAM

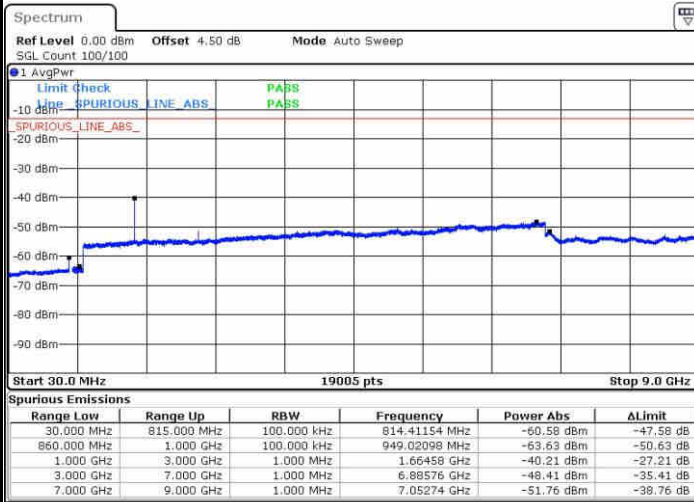


Date: 27.FEB 2019 16:01:59



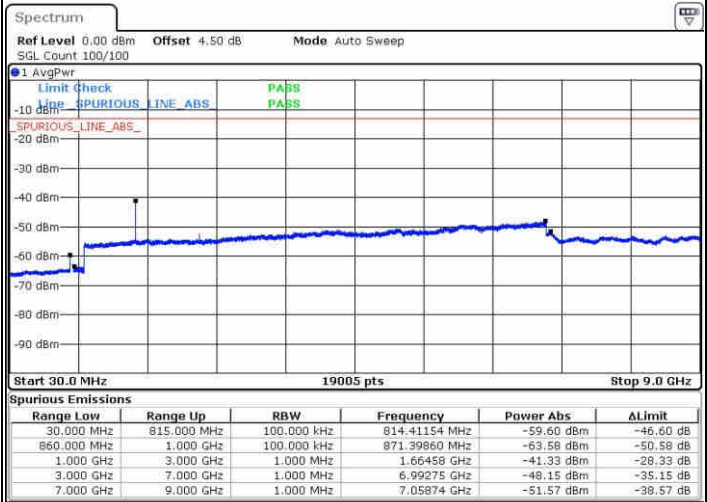
LTE Band 26 / 10MHz

Middle Channel / QPSK



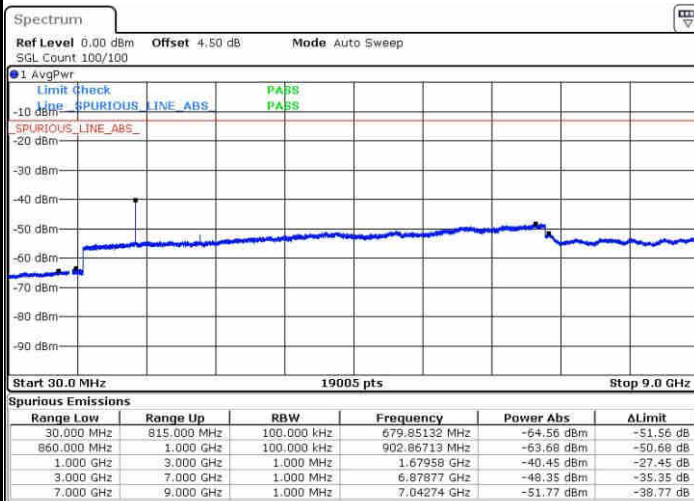
Date: 27.FEB 2019 16:03:25

Middle Channel / 16QAM



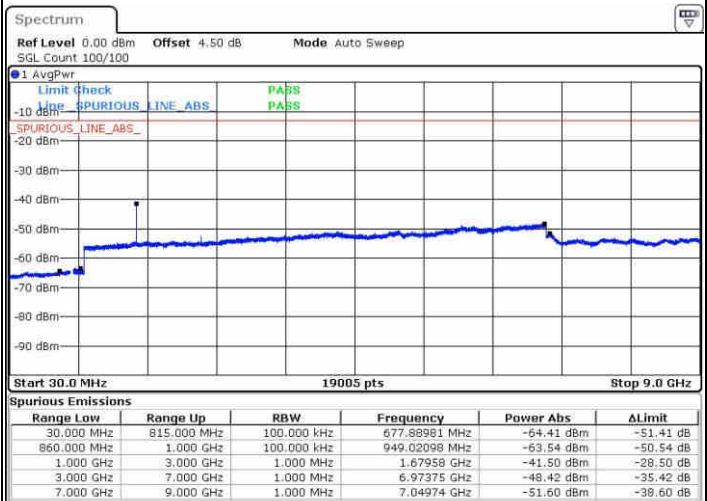
Date: 27.FEB 2019 16:03:04

Highest Channel / QPSK



Date: 27.FEB 2019 16:03:47

Highest Channel / 16QAM

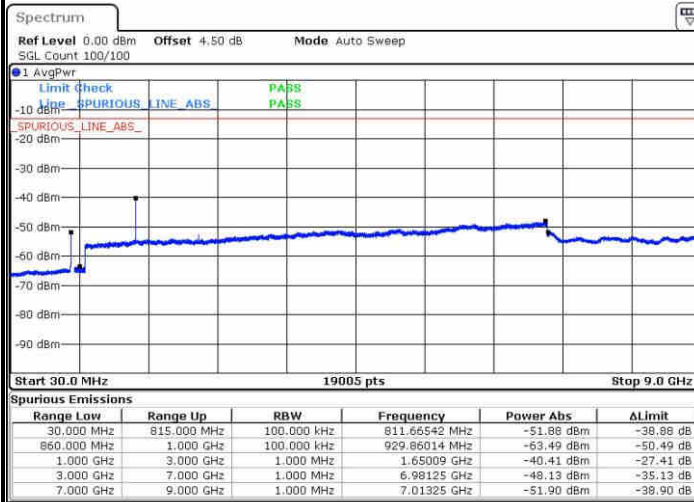


Date: 27.FEB 2019 16:04:08



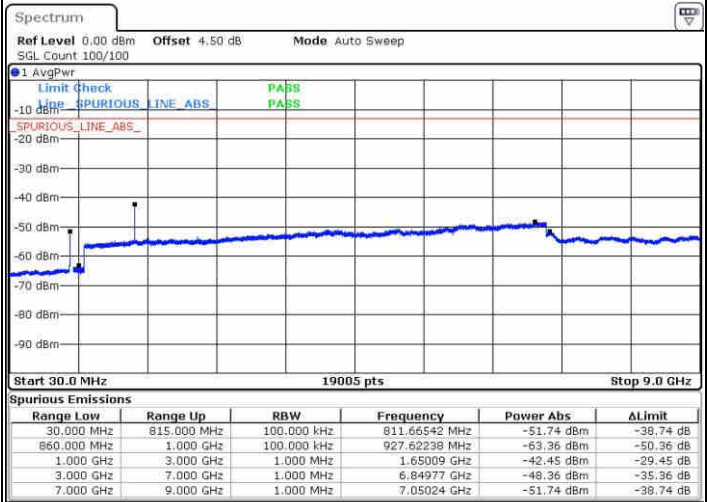
LTE Band 26 / 15MHz

Lowest Channel / QPSK



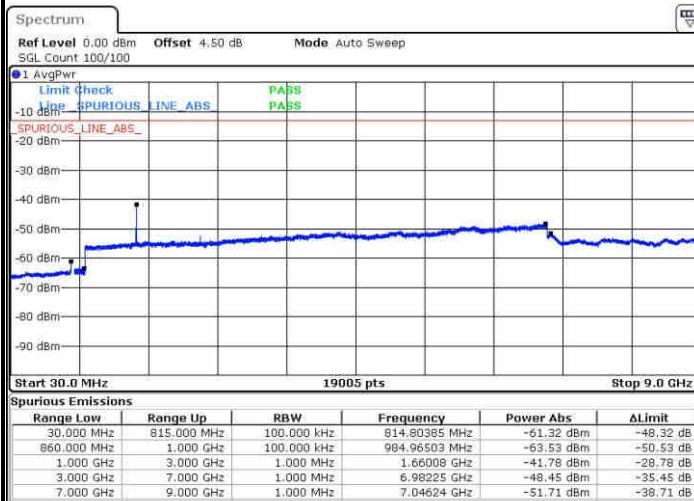
Date: 27.FEB 2019 16:10:49

Lowest Channel / 16QAM



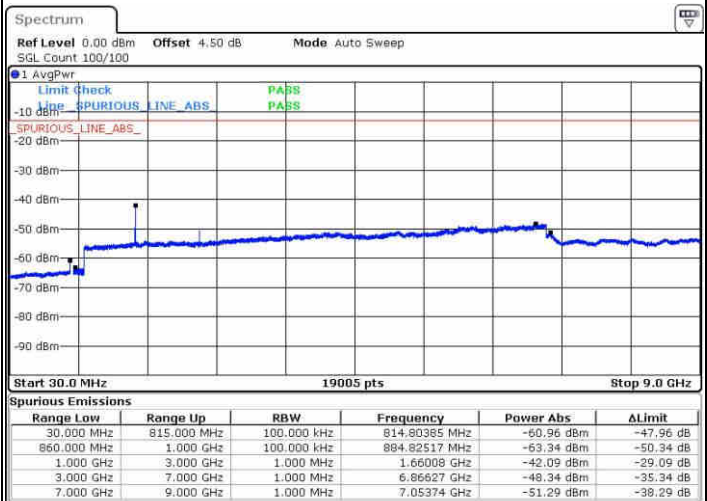
Date: 27.FEB 2019 16:11:11

Middle Channel / QPSK



Date: 27.FEB 2019 16:12:38

Middle Channel / 16QAM

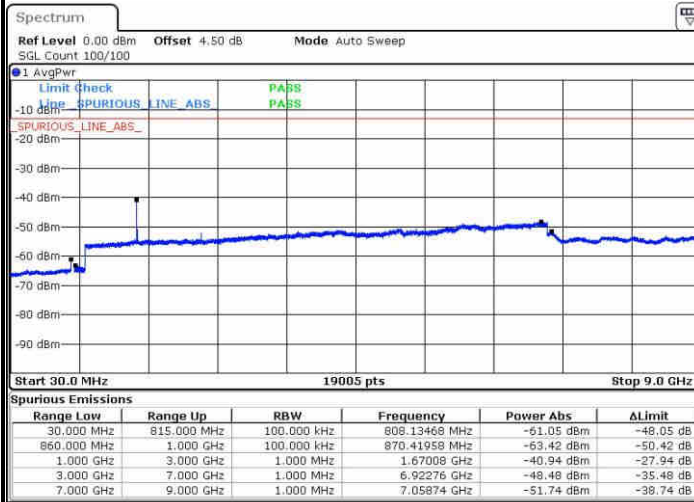


Date: 27.FEB 2019 16:12:15



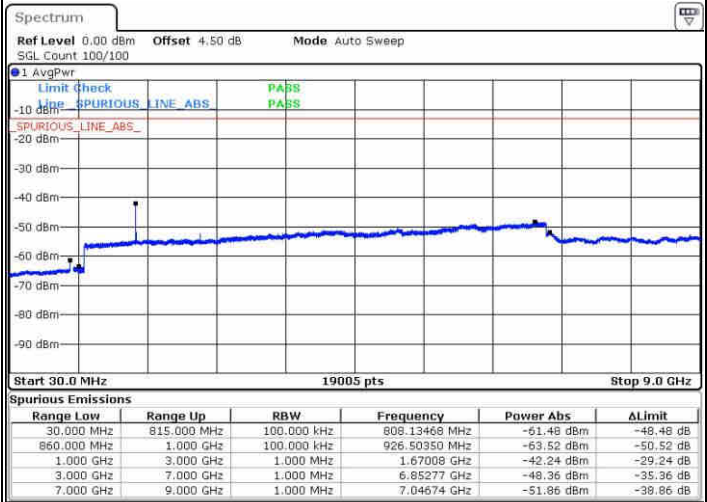
LTE Band 26 / 15MHz

Highest Channel / QPSK



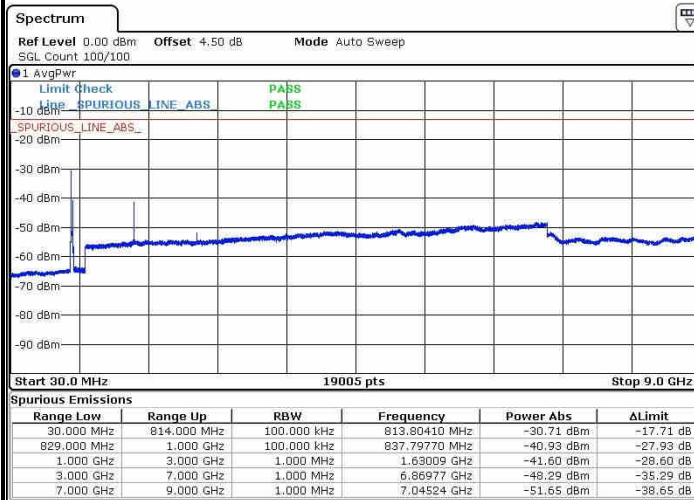
Date: 27.FEB.2019 16:12:58

Highest Channel / 16QAM



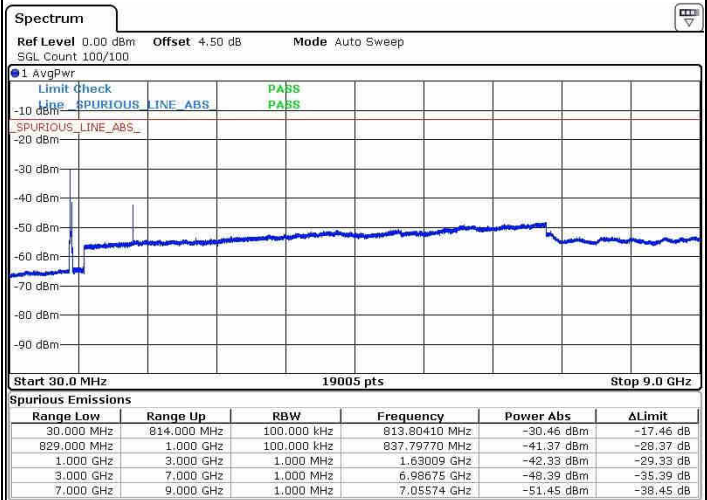
Date: 27.FEB.2019 16:13:19

CH26765 / QPSK



Date: 28.FEB.2019 09:38:32

CH26765 / 16QAM

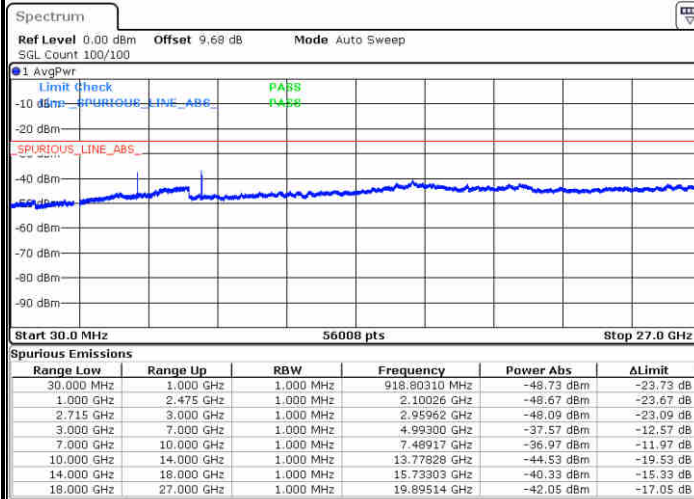


Date: 28.FEB.2019 09:38:57



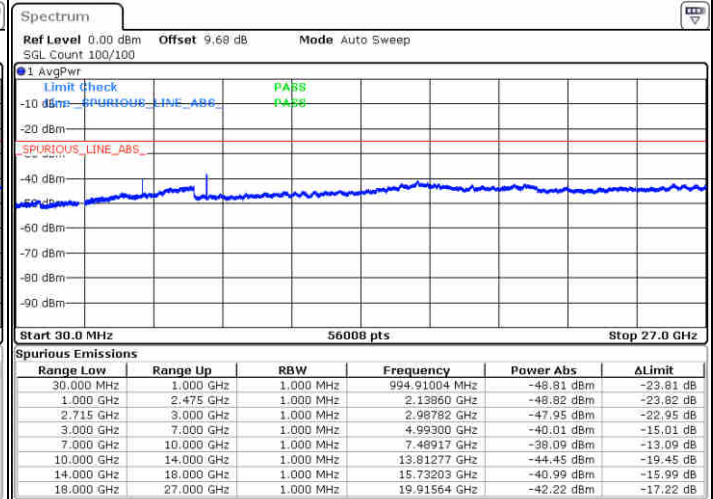
LTE Band 41 / 5MHz

Lowest Channel / QPSK



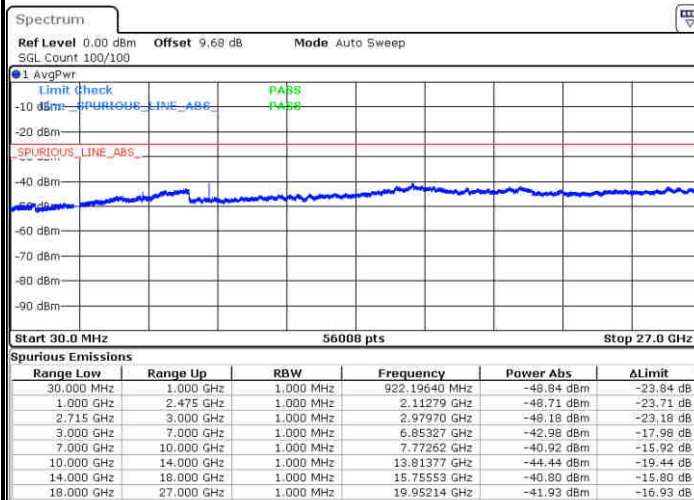
Date: 2 APR 2019 16:44:10

Lowest Channel / 16QAM



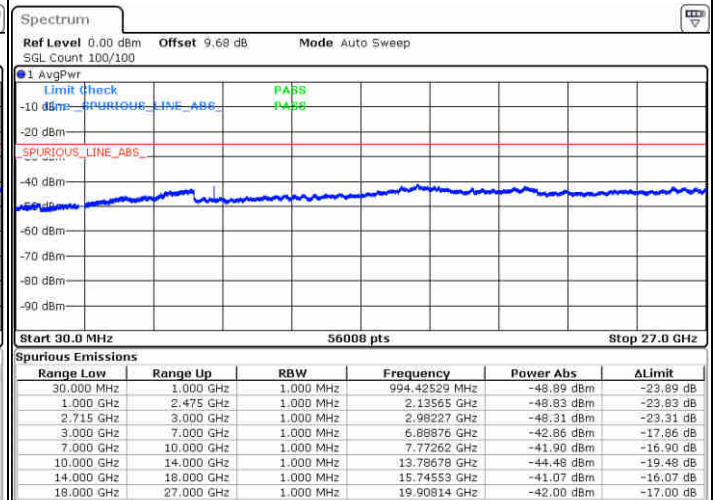
Date: 2 APR 2019 16:45:05

Middle Channel / QPSK



Date: 2 APR 2019 16:46:00

Middle Channel / 16QAM

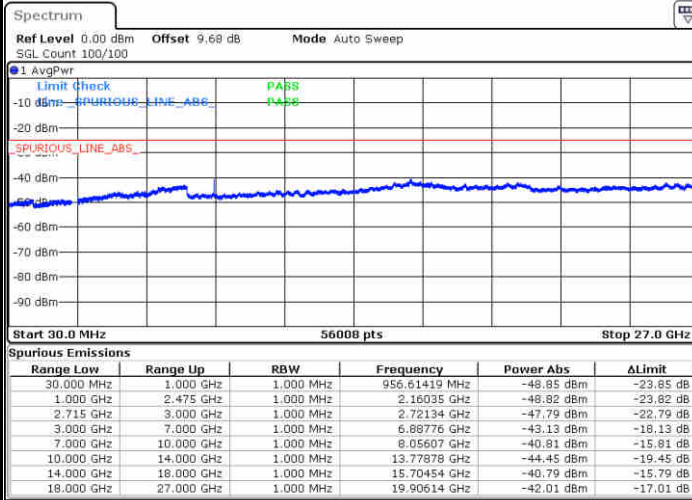


Date: 2 APR 2019 16:46:54



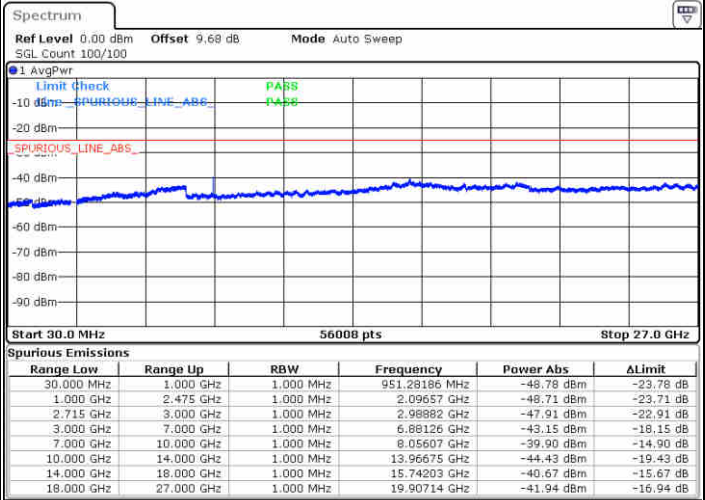
LTE Band 41 / 5MHz

Highest Channel / QPSK



Date: 2 APR 2019 16:47:49

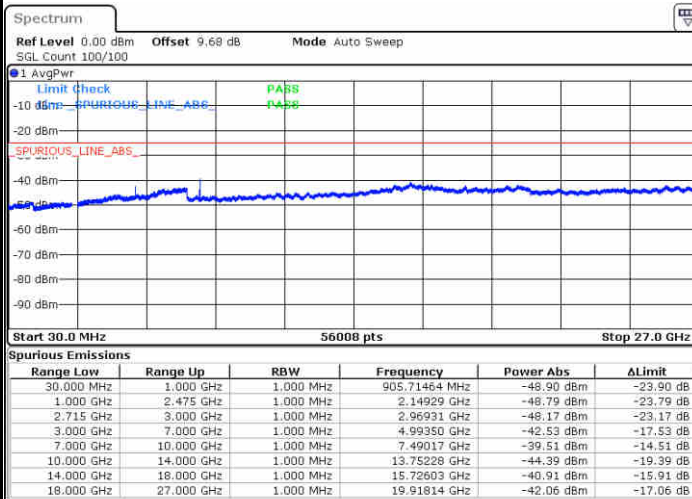
Highest Channel / 16QAM



Date: 2 APR 2019 16:48:43

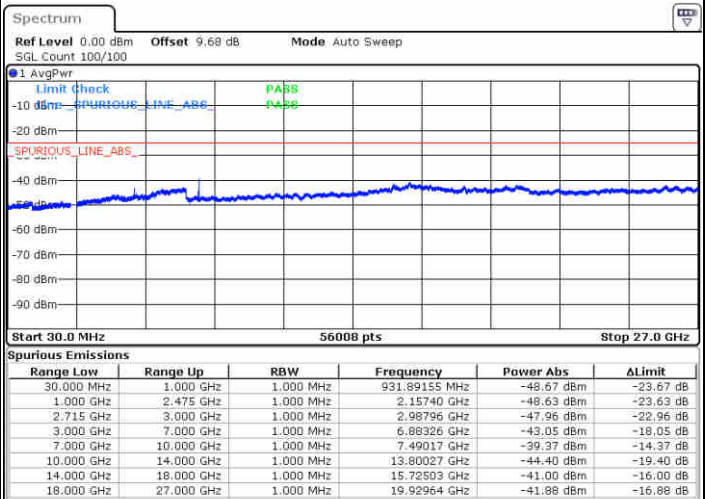
LTE Band 41 / 10MHz

Lowest Channel / QPSK



Date: 2 APR 2019 16:49:38

Lowest Channel / 16QAM

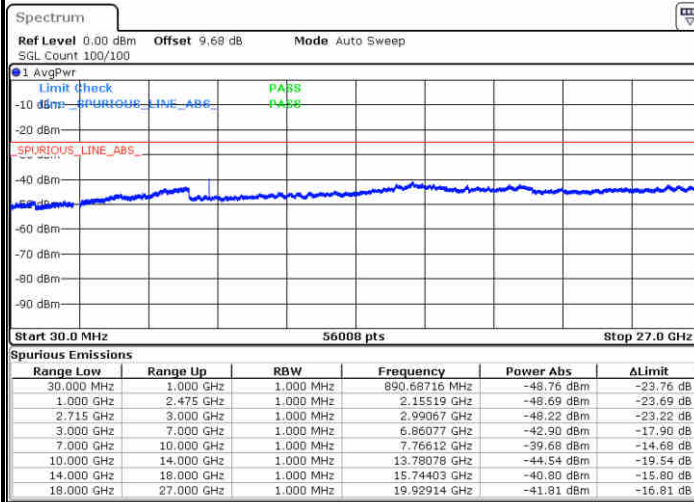


Date: 2 APR 2019 16:50:33



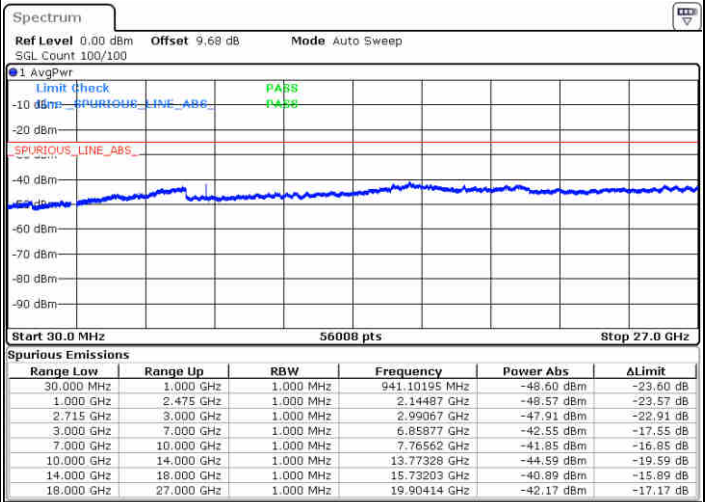
LTE Band 41 / 10MHz

Middle Channel / QPSK



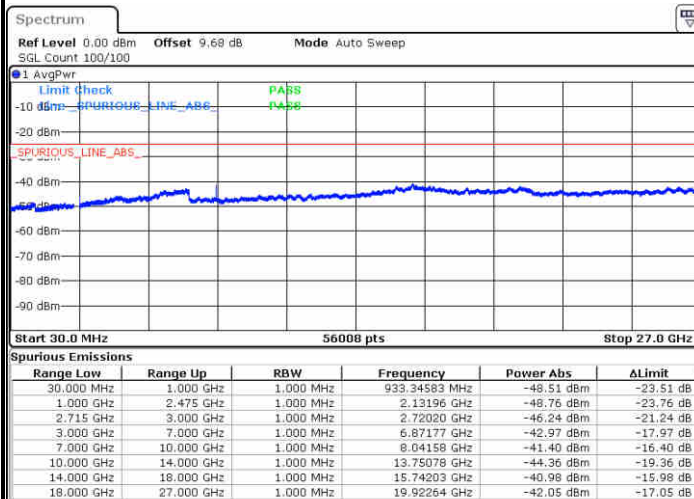
Date: 2 APR 2019 16:51:27

Middle Channel / 16QAM



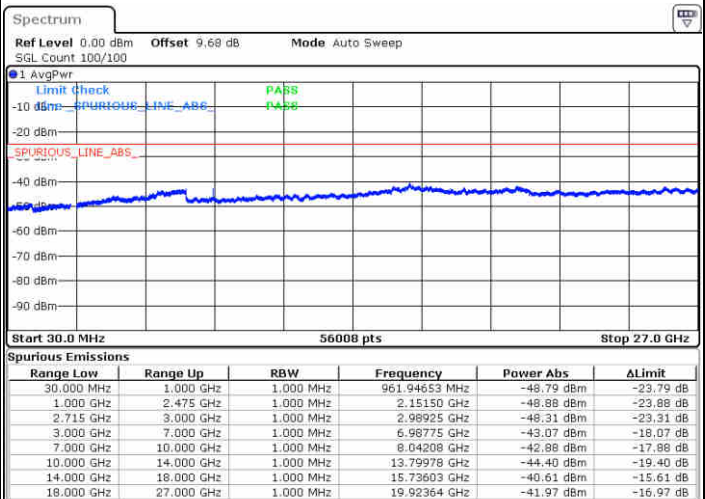
Date: 2 APR 2019 16:52:22

Highest Channel / QPSK



Date: 2 APR 2019 16:53:16

Highest Channel / 16QAM

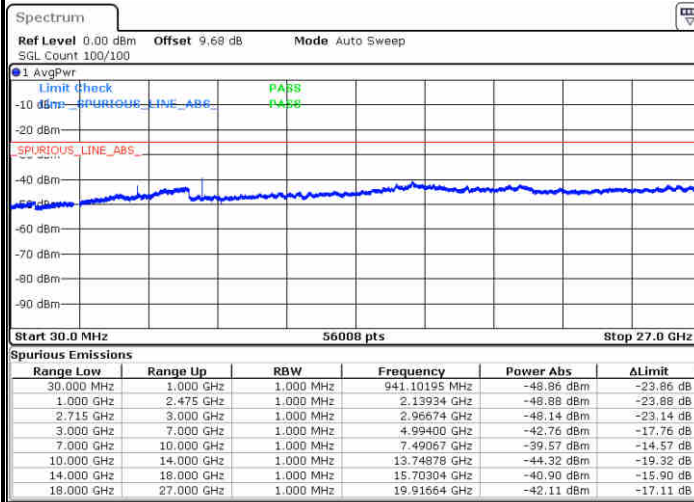


Date: 2 APR 2019 16:54:11



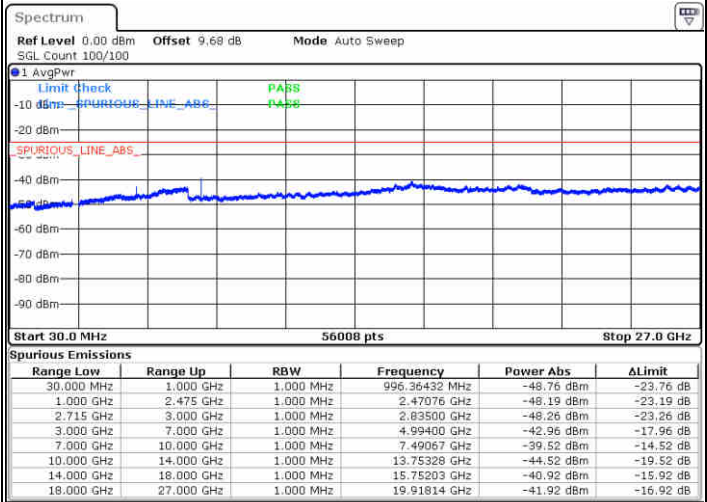
LTE Band 41 / 15MHz

Lowest Channel / QPSK



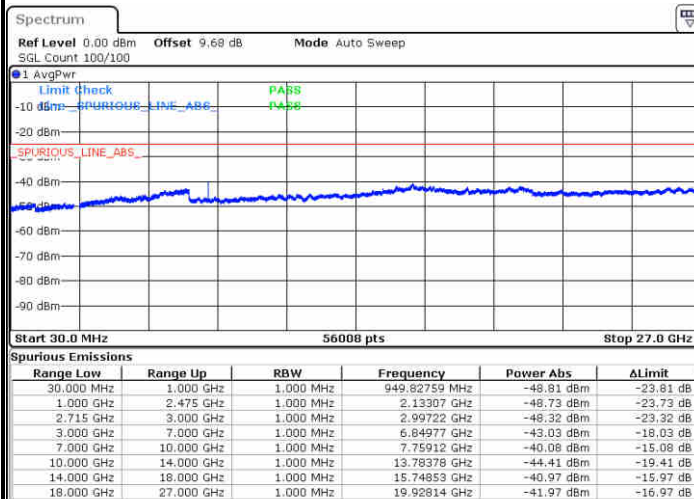
Date: 2 APR 2019 16:55:05

Lowest Channel / 16QAM



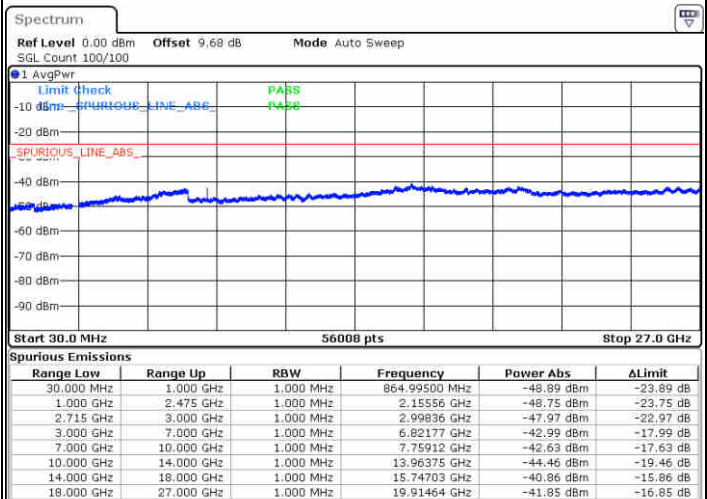
Date: 2 APR 2019 16:56:00

Middle Channel / QPSK



Date: 2 APR 2019 16:56:55

Middle Channel / 16QAM

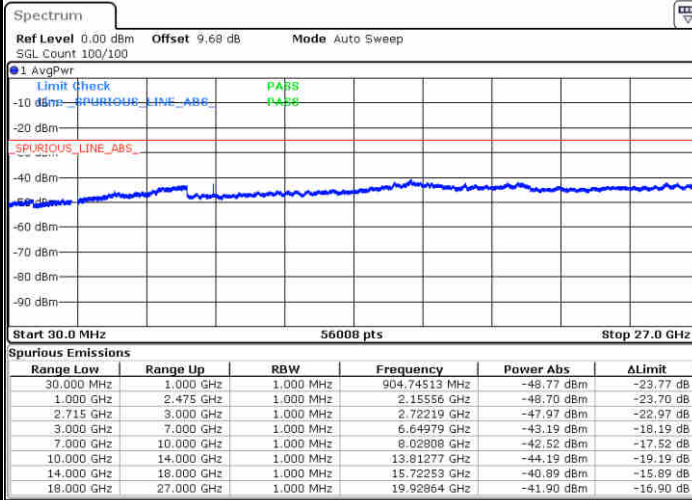


Date: 2 APR 2019 16:57:49



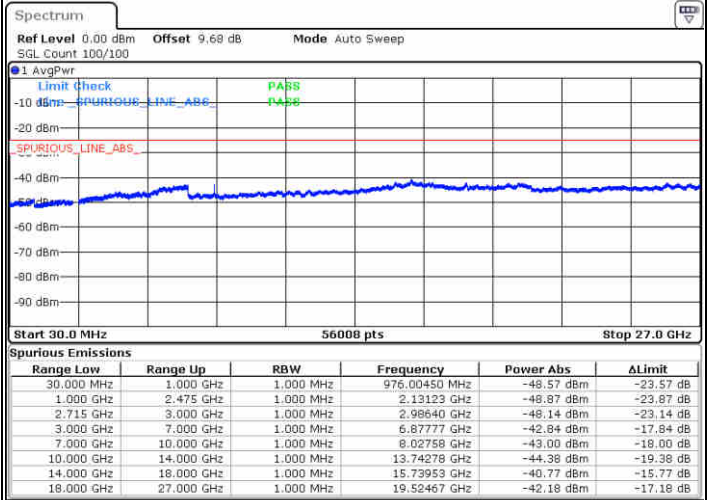
LTE Band 41 / 15MHz

Highest Channel / QPSK



Date: 2 APR 2019 16:58:44

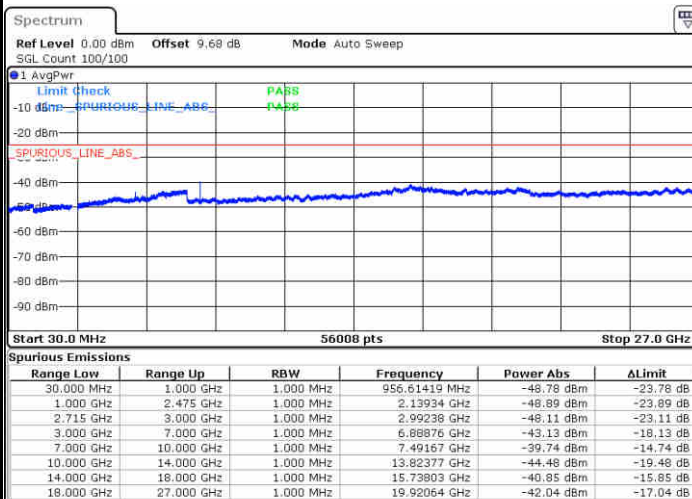
Highest Channel / 16QAM



Date: 2 APR 2019 16:59:38

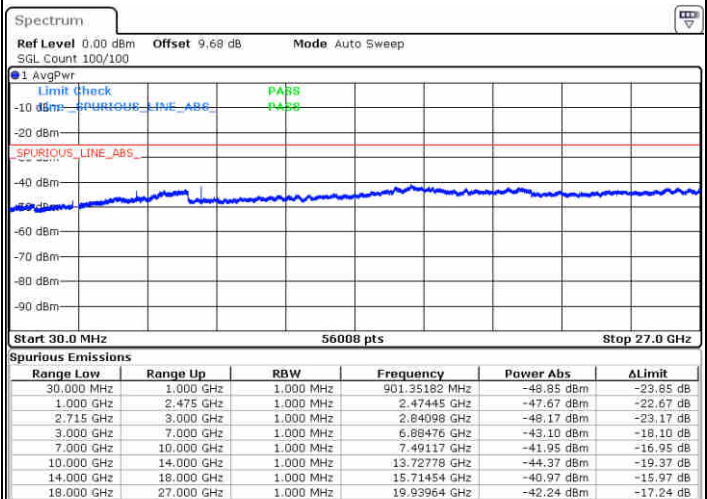
LTE Band 41 / 20MHz

Lowest Channel / QPSK



Date: 2 APR 2019 17:00:33

Lowest Channel / 16QAM

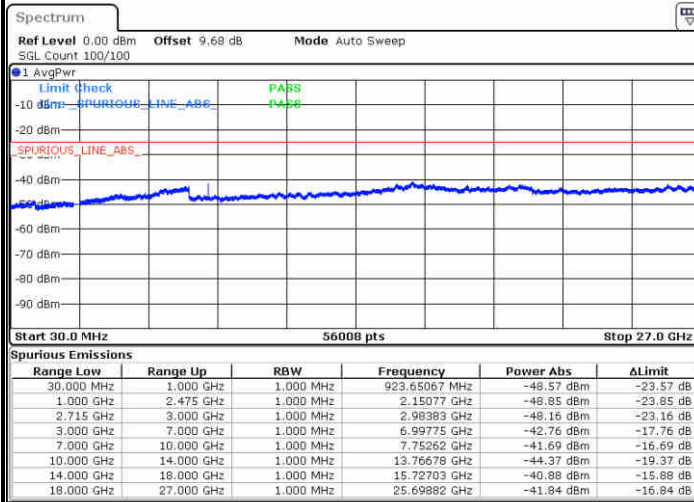


Date: 2 APR 2019 17:01:28



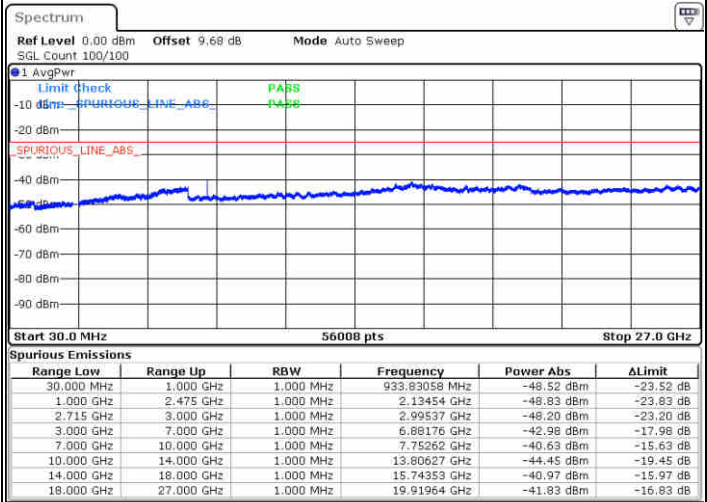
LTE Band 41 / 20MHz

Middle Channel / QPSK



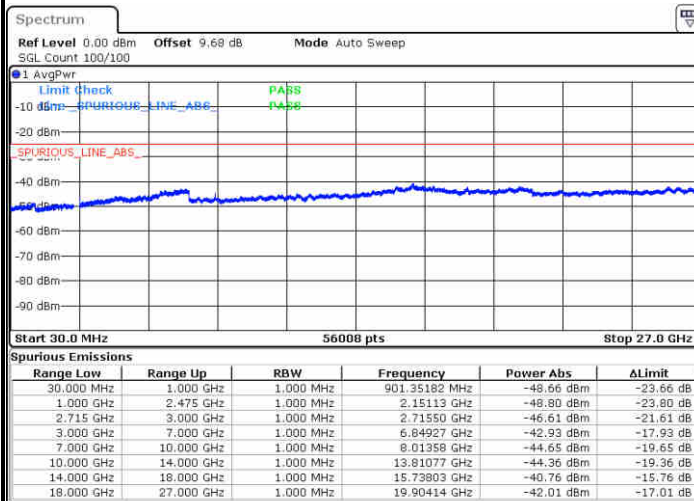
Date: 2 APR 2019 17:02:22

Middle Channel / 16QAM



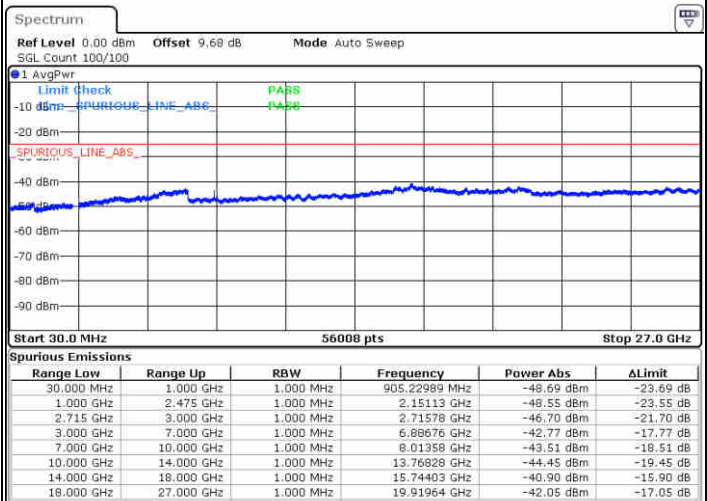
Date: 2 APR 2019 17:03:17

Highest Channel / QPSK



Date: 2 APR 2019 17:04:11

Highest Channel / 16QAM



Date: 2 APR 2019 17:05:06

Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0024	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0028	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0025	
-30	Normal Voltage	0.0018	
20	Maximum Voltage	0.0038	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0015	PASS
40	Normal Voltage	0.0024	
30	Normal Voltage	0.0082	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0102	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0023	
-20	Normal Voltage	0.0065	
-30	Normal Voltage	0.0075	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0102	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0014	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0056	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0054	
0	Normal Voltage	0.0063	
-10	Normal Voltage	0.0010	
-20	Normal Voltage	0.0055	
-30	Normal Voltage	0.0060	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0043	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 25 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0020	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0028	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0018	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0080	PASS
40	Normal Voltage	0.0072	
30	Normal Voltage	0.0016	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0093	
0	Normal Voltage	0.0069	
-10	Normal Voltage	0.0026	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0075	
20	Maximum Voltage	0.0025	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0081	

Note: Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 V.



Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0020	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0026	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0018	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

LTE Band 4 / 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	3447	-62.24	-13	-49.24	-66.96	3.413	8.13	H
	5172	-55.31	-13	-42.31	-61.32	4.195	10.20	H
	6894	-54.23	-13	-41.23	-60.68	4.911	11.36	H
	3447	-62.54	-13	-49.54	-67.26	3.413	8.13	V
	5172	-56.33	-13	-43.33	-62.34	4.195	10.20	V
	6894	-54.14	-13	-41.14	-60.59	4.911	11.36	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	-62.20	-13	-49.20	-63.41	2.32	5.68	H
	2110	-47.82	-13	-34.82	-48.45	3.02	5.80	H
	2812	-63.52	-13	-50.52	-65.98	3.27	7.88	H
	1406	-65.57	-13	-52.57	-66.78	2.32	5.68	V
	2110	-45.29	-13	-32.29	-45.92	3.02	5.80	V
	2812	-64.73	-13	-51.73	-67.19	3.27	7.88	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	-54.97	-40	-14.97	-58.83	2.23	6.09	H
	2340	-50.50	-13	-37.50	-53.18	2.83	5.51	H
	3120	-66.38	-13	-53.38	-70.47	3.21	7.30	H
	1560	-57.32	-40	-17.32	-61.18	2.23	6.09	V
	2340	-55.12	-13	-42.12	-57.80	2.83	5.51	V
	3120	-66.20	-13	-53.20	-70.29	3.21	7.30	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	-53.56	-13	-40.56	-55.27	2.23	6.09	H
	2332	-46.79	-13	-33.79	-49.47	2.83	5.51	H
	3108	-65.11	-13	-52.11	-69.20	3.21	7.30	H
	1556	-61.94	-13	-48.94	-63.65	2.23	6.09	V
	2332	-48.60	-13	-35.60	-51.28	2.83	5.51	V
	3108	-65.63	-13	-52.63	-69.72	3.21	7.30	V

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

LTE Band 25 / 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	3747	-59.61	-13	-46.61	-64.48	3.55	8.42	H
	5622	-55.01	-13	-42.01	-61.35	4.34	10.68	H
	7494	-51.01	-13	-38.01	-57.81	5.14	11.94	H
	3747	-59.26	-13	-46.26	-64.13	3.55	8.42	V
	5622	-55.21	-13	-42.21	-61.55	4.34	10.68	V
	7494	-50.83	-13	-37.83	-57.63	5.14	11.94	V

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



LTE Band 26 / 15MHz / 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	1660	-55.98	-13	-42.98	-57.19	2.32	5.68	H
	2490	-51.11	-13	-38.11	-51.74	3.02	5.80	H
	3318	-66.19	-13	-53.19	-68.65	3.27	7.88	H
	1660	-64.48	-13	-51.48	-65.69	2.32	5.68	V
	2490	-45.79	-13	-32.79	-46.42	3.02	5.80	V
	3318	-65.96	-13	-52.96	-68.42	3.27	7.88	V

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

LTE Band 41 / 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	5170	-58.70	-25	-33.70	-64.71	4.20	10.21	H
	7750	-55.75	-25	-30.75	-62.61	5.12	11.98	H
	10332	-48.71	-25	-23.71	-55.75	5.86	12.90	H
	12924	-51.49	-25	-26.49	-58.37	6.91	13.78	H
	15507	-54.66	-25	-29.66	-62.05	7.74	15.13	H
	5170	-61.33	-25	-36.33	-67.34	4.20	10.21	V
	7750	-59.59	-25	-34.59	-66.45	5.12	11.98	V
	10332	-52.18	-25	-27.18	-59.22	5.86	12.90	V
	12924	-49.68	-25	-24.68	-56.56	6.91	13.78	V
	15507	-52.03	-25	-27.03	-58.69	7.55	14.21	V

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