

RF Power Output and Effective Radiated Power

GSM 850		Conducted Power (dBm)		
		Channel/Frenqucy(MHz)		
		128/824.2	190/836.6	251/848.8
GSM	CS	31.37	31.57	31.42
GPRS(GMSK)	1 Tx Slot	31.76	31.68	31.86
	2 Tx Slots	31.15	31.06	31.20
	3 Tx Slots	28.86	29.13	29.26
	4 Tx Slots	27.82	28.04	28.15
EGPRS (8PSK)	1 Tx Slot	25.41	25.43	25.51
	2 Tx Slots	25.29	25.35	25.40
	3 Tx Slots	23.16	23.27	23.31
	4 Tx Slots	22.05	22.02	22.07

WCDMA Band V		Conducted Power (dBm)		
		Channel/Frenqucy		
		4132/826.4	4183/836.6	4233/846.6
RMC	12.2k	23.25	23.41	23.27
HSDPA	Subtest 1	22.71	22.83	22.71
	Subtest 2	22.70	22.85	22.68
	Subtest 3	22.17	22.35	22.20
	Subtest 4	22.18	22.36	22.18
HSUPA	Subtest 1	22.67	22.82	22.66
	Subtest 2	21.66	21.80	21.65
	Subtest 3	22.13	22.28	22.14
	Subtest 4	21.59	21.77	21.62
	Subtest 5	22.60	22.75	22.60
DC-HSDPA	Subtest 1	22.59	22.77	22.61
	Subtest 2	22.58	22.76	22.60
	Subtest 3	22.16	22.25	22.11
	Subtest 4	22.15	22.24	22.10

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Verdict
LTE Band5	1.4	20407	1	#0	QPSK	23.06	PASS
LTE Band5	1.4	20407	1	#Mid	QPSK	23.10	PASS
LTE Band5	1.4	20407	1	#Max	QPSK	22.98	PASS
LTE Band5	1.4	20407	3	#0	QPSK	22.77	PASS
LTE Band5	1.4	20407	3	#Mid	QPSK	22.77	PASS
LTE Band5	1.4	20407	3	#Max	QPSK	22.87	PASS
LTE Band5	1.4	20407	6	#0	QPSK	21.85	PASS
LTE Band5	1.4	20525	1	#0	QPSK	22.73	PASS
LTE Band5	1.4	20525	1	#Mid	QPSK	22.71	PASS
LTE Band5	1.4	20525	1	#Max	QPSK	22.53	PASS
LTE Band5	1.4	20525	3	#0	QPSK	22.74	PASS
LTE Band5	1.4	20525	3	#Mid	QPSK	22.74	PASS
LTE Band5	1.4	20525	3	#Max	QPSK	22.77	PASS
LTE Band5	1.4	20525	6	#0	QPSK	21.76	PASS
LTE Band5	1.4	20643	1	#0	QPSK	22.56	PASS
LTE Band5	1.4	20643	1	#Mid	QPSK	22.97	PASS
LTE Band5	1.4	20643	1	#Max	QPSK	22.76	PASS
LTE Band5	1.4	20643	3	#0	QPSK	22.89	PASS
LTE Band5	1.4	20643	3	#Mid	QPSK	22.87	PASS
LTE Band5	1.4	20643	3	#Max	QPSK	22.74	PASS
LTE Band5	1.4	20643	6	#0	QPSK	21.79	PASS
LTE Band5	3	20415	1	#0	QPSK	22.76	PASS
LTE Band5	3	20415	1	#Mid	QPSK	22.58	PASS
LTE Band5	3	20415	1	#Max	QPSK	22.69	PASS
LTE Band5	3	20415	8	#0	QPSK	21.81	PASS
LTE Band5	3	20415	8	#Mid	QPSK	21.82	PASS
LTE Band5	3	20415	8	#Max	QPSK	21.80	PASS
LTE Band5	3	20415	15	#0	QPSK	21.86	PASS
LTE Band5	3	20525	1	#0	QPSK	23.04	PASS
LTE Band5	3	20525	1	#Mid	QPSK	22.99	PASS
LTE Band5	3	20525	1	#Max	QPSK	23.10	PASS
LTE Band5	3	20525	8	#0	QPSK	21.74	PASS
LTE Band5	3	20525	8	#Mid	QPSK	21.75	PASS
LTE Band5	3	20525	8	#Max	QPSK	21.74	PASS
LTE Band5	3	20525	15	#0	QPSK	21.69	PASS
LTE Band5	3	20635	1	#0	QPSK	22.70	PASS
LTE Band5	3	20635	1	#Mid	QPSK	22.51	PASS
LTE Band5	3	20635	1	#Max	QPSK	22.61	PASS
LTE Band5	3	20635	8	#0	QPSK	21.70	PASS
LTE Band5	3	20635	8	#Mid	QPSK	21.71	PASS



LTE Band5	3	20635	8	#Max	QPSK	21.79	PASS
LTE Band5	3	20635	15	#0	QPSK	21.72	PASS
LTE Band5	5	20425	1	#0	QPSK	22.66	PASS
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LTE Band5	5	20425	1	#Max	QPSK	22.72	PASS
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LTE Band5	10	20525	25	#Mid	QAM16	20.94	PASS
LTE Band5	10	20525	25	#Max	QAM16	21.05	PASS
LTE Band5	10	20600	1	#0	QAM16	22.01	PASS
LTE Band5	10	20600	1	#Mid	QAM16	22.36	PASS
LTE Band5	10	20600	1	#Max	QAM16	22.29	PASS
LTE Band5	10	20600	25	#0	QAM16	21.12	PASS
LTE Band5	10	20600	25	#Mid	QAM16	21.13	PASS
LTE Band5	10	20600	25	#Max	QAM16	21.15	PASS

Occupied Bandwidth

Mode	Channel	Frequency (MHz)	99% Power Bandwidth (MHz)	-26dBc Bandwidth(MHz)
GSM 850 (GSM)	128	824.2	0.2432	0.3013
	190	836.6	0.2429	0.3020
	251	848.8	0.2425	0.2986
GPRS 850 (GMSK)	128	824.2	0.2468	0.3088
	190	836.6	0.2370	0.3086
	251	848.8	0.2461	0.3096
EGPRS 850 (8-PSK)	128	824.2	0.2453	0.3136
	190	836.6	0.2423	0.3134
	251	848.8	0.2446	0.3168
WCDMA Band V (RMC)	4132	826.4	4.1206	4.6720
	4183	836.6	4.1254	4.7050
	4233	846.6	4.1348	4.6980

LTE Band 5						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	1.4	20407	824.7	1.096	1.278
			20525	836.5	1.100	1.300
			20643	848.3	1.095	1.280
		3	20415	825.5	2.711	3.006
			20525	836.5	2.714	2.991
			20635	847.5	2.710	2.966
		5	20425	826.5	4.510	5.013
			20525	836.5	4.509	4.959
			20625	846.5	4.524	4.946
		10	20450	829	8.957	9.861
			20525	836.5	8.943	9.738
			20600	844	8.991	9.900
	16QAM	1.4	20407	824.7	1.098	1.266
			20525	836.5	1.100	1.274
			20643	848.3	1.098	1.272
		3	20415	825.5	2.708	2.969
			20525	836.5	2.696	2.967



			20635	847.5	2.690	2.993
		5	20425	826.5	4.530	5.014
			20525	836.5	4.512	4.932
			20625	846.5	4.494	4.952



GSM 850 CH-Low



GSM 850 GPRS CH-Low



GSM 850 CH-Middle



GSM 850 GPRS CH-Middle



GSM 850 CH-High



GSM 850 GPRS CH-High





GSM 850 EGPRS CH-Low



WCDMA Band V CH-Low



GSM 850 EGPRS CH-Middle



WCDMA Band V CH-Middle



GSM 850 EGPRS CH-High

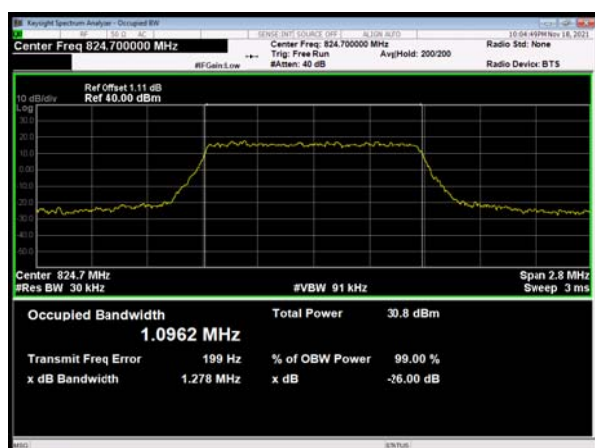


WCDMA Band V CH-High

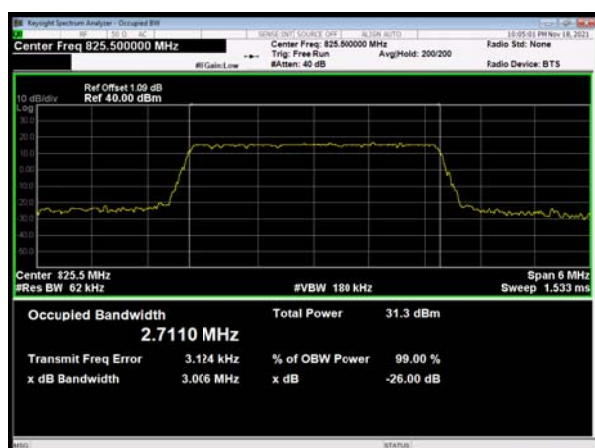




LTE Band 5 QPSK 1.4MHz CH-Low



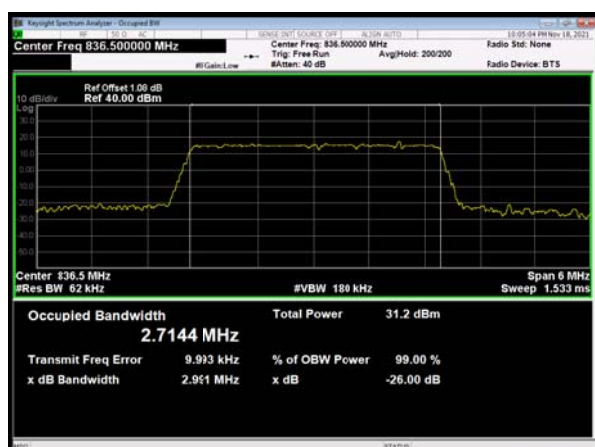
LTE Band 5 QPSK 3MHz CH-Low



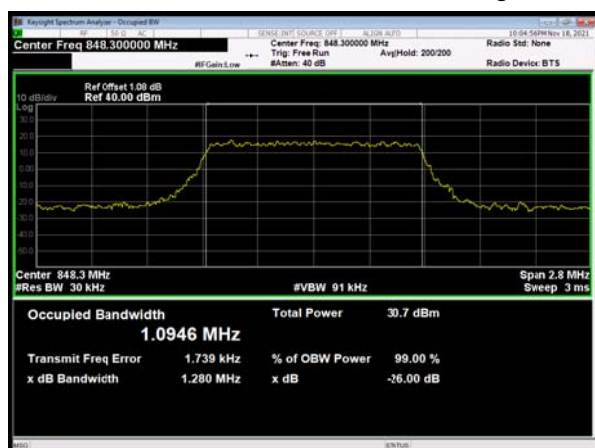
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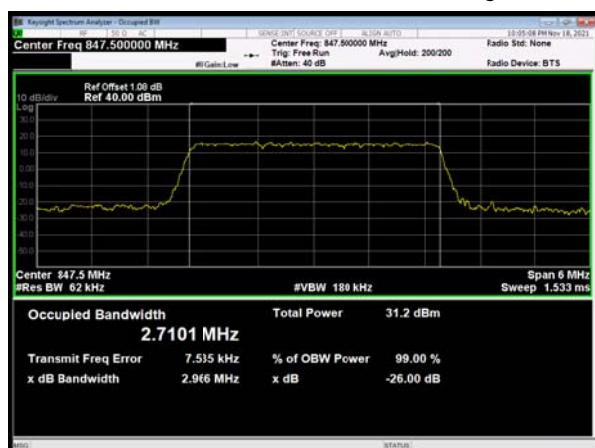
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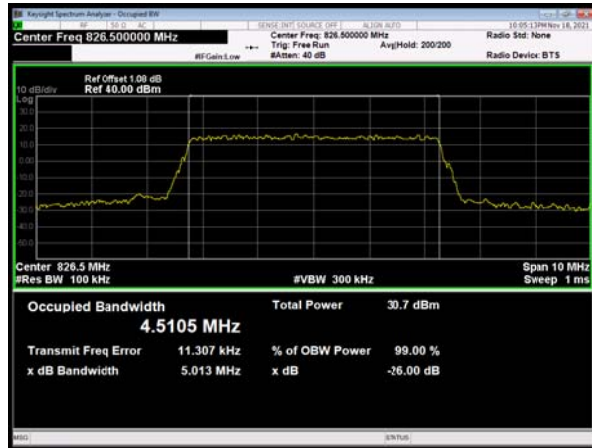


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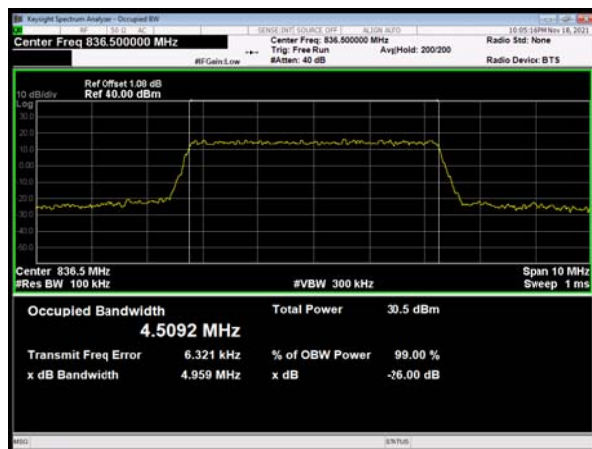
LTE Band 5 QPSK 5MHz CH-Low



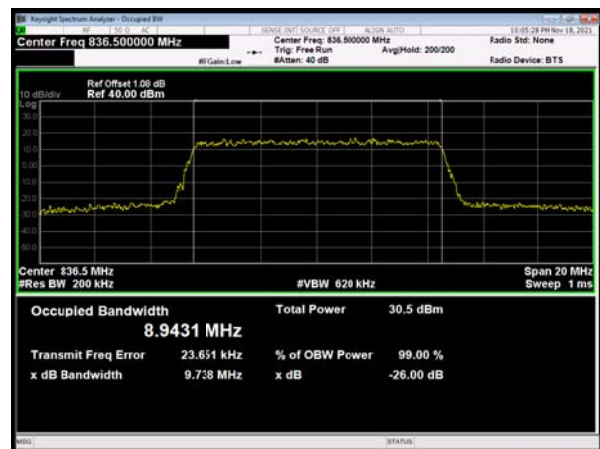
LTE Band 5 QPSK 10MHz CH-Low



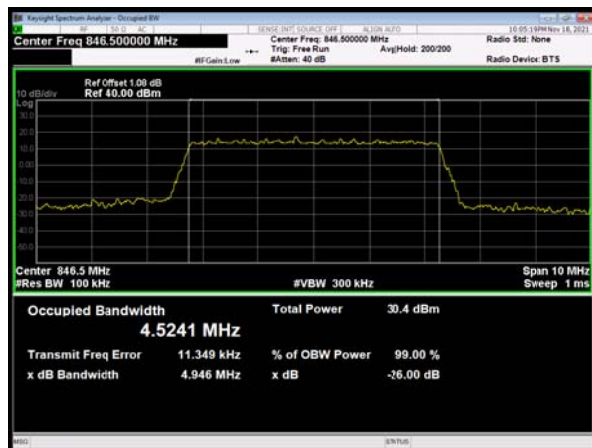
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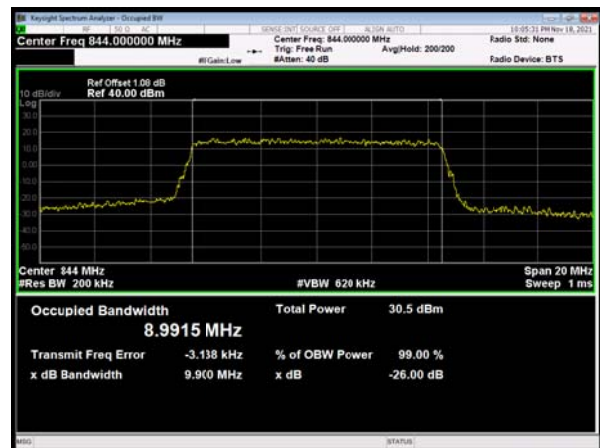
LTE Band 5 QPSK 10MHz CH-Middle



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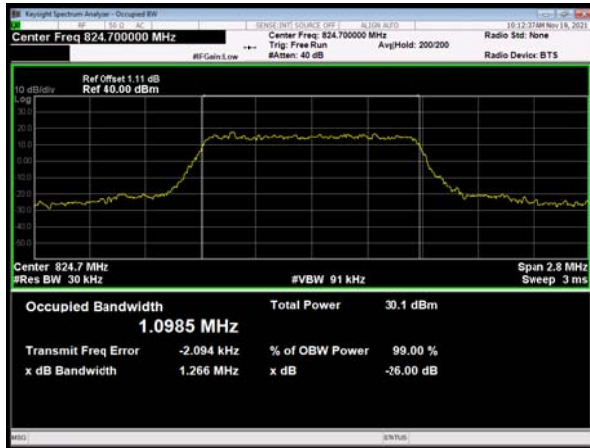


LTE Band 5 QPSK 10MHz CH-High





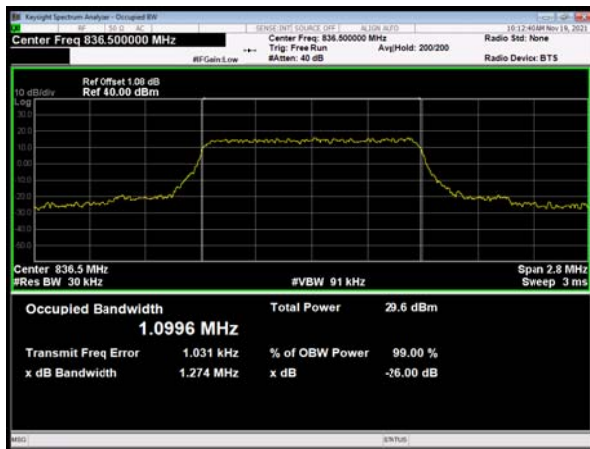
LTE Band 5 16QAM 1.4MHz CH-Low



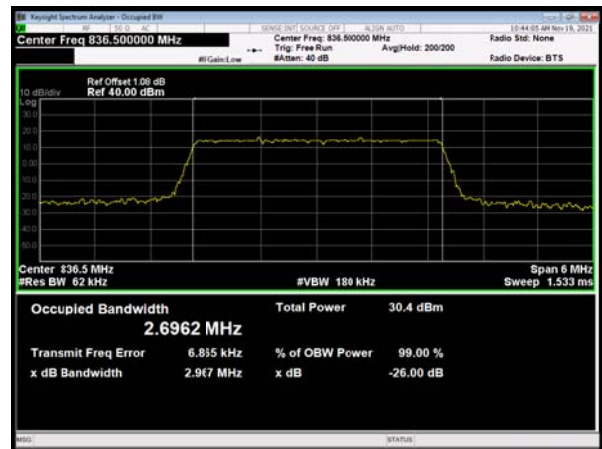
LTE Band 5 16QAM 3MHz CH-Low



LTE Band 5 16QAM 1.4MHz CH-Middle



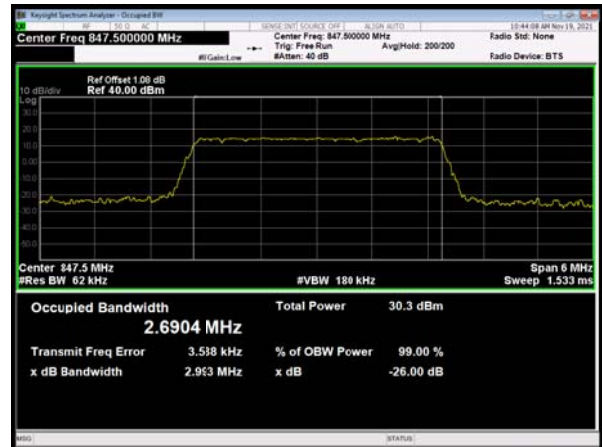
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LTE Band 5 16QAM 1.4MHz CH-High

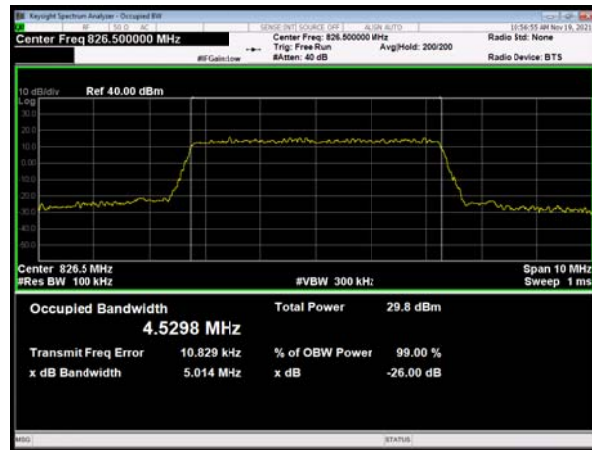


LTE Band 5 16QAM 3MHz CH-High

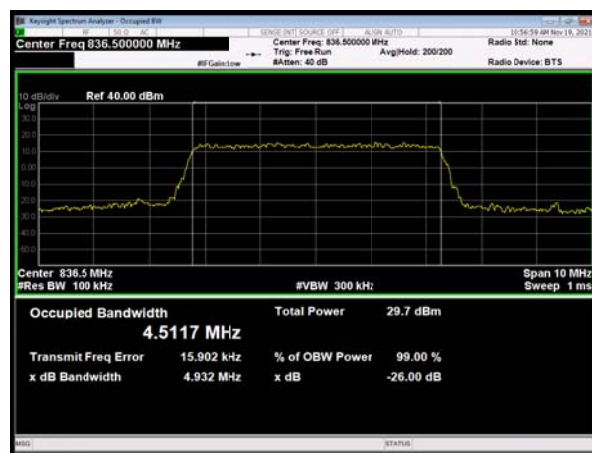




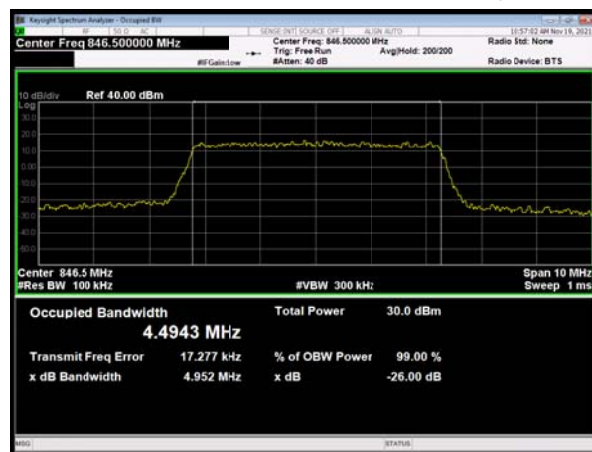
LTE Band 5 16QAM 5MHz CH-Low



LTE Band 5 16QAM 5MHz CH-Middle



LTE Band 5 16QAM 5MHz CH-High



Band Edge Compliance

GSM850 GSM CH-Low



GSM 850 GSM CH-High



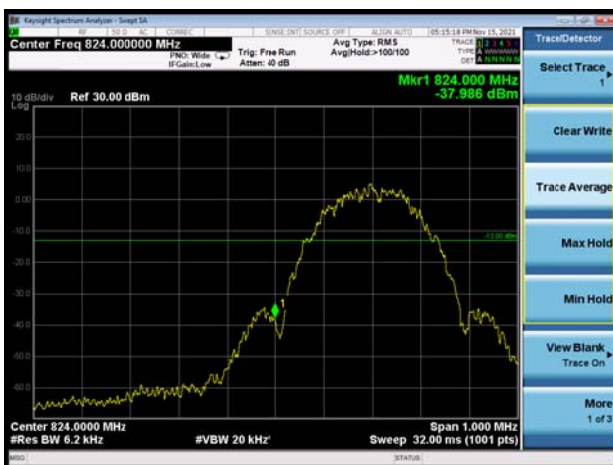
GSM850 GPRS CH-Low



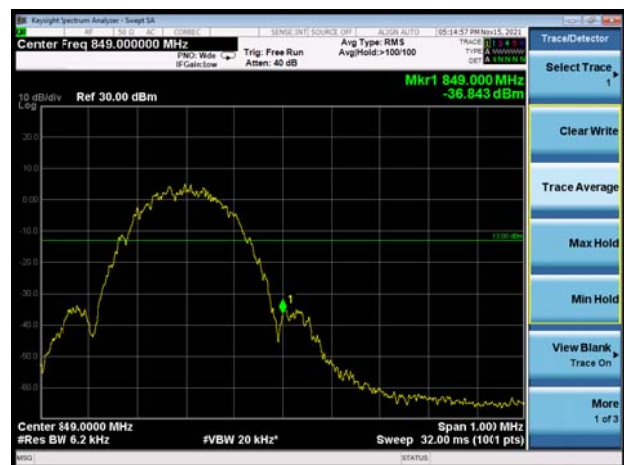
GSM 850 GPRS CH-High



GSM850 EGPRS CH-Low



GSM 850 EGPRS CH-High





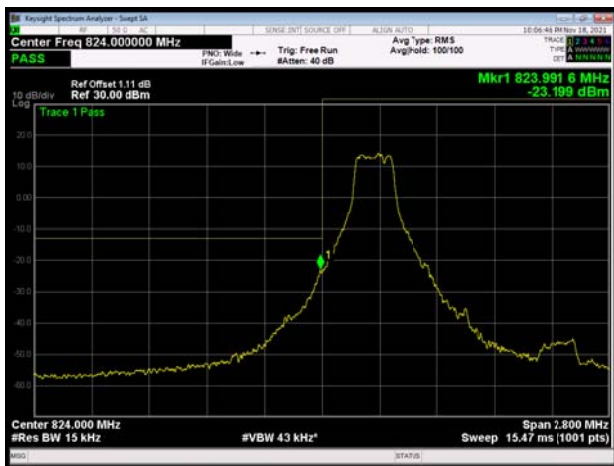
WCDMA Band V CH-Low



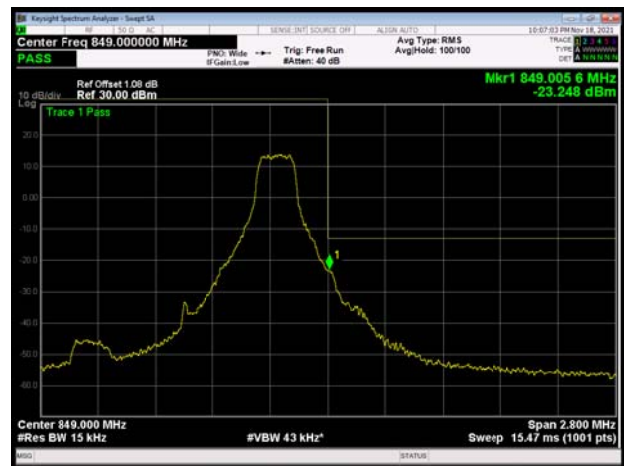
WCDMA Band V CH-High



LTE Band 5 1.4MHz QPSK 1RB CH-Low



LTE Band 5 1.4MHz QPSK 1RB CH-High



LTE Band 5 1.4MHz QPSK 100%RB CH-Low

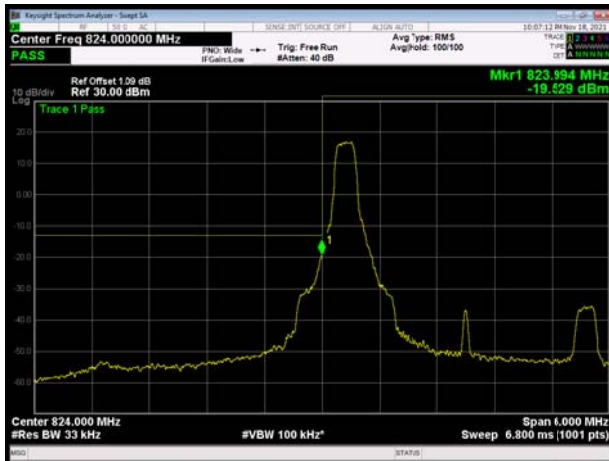


LTE Band 5 1.4MHz QPSK 100%RB CH-High

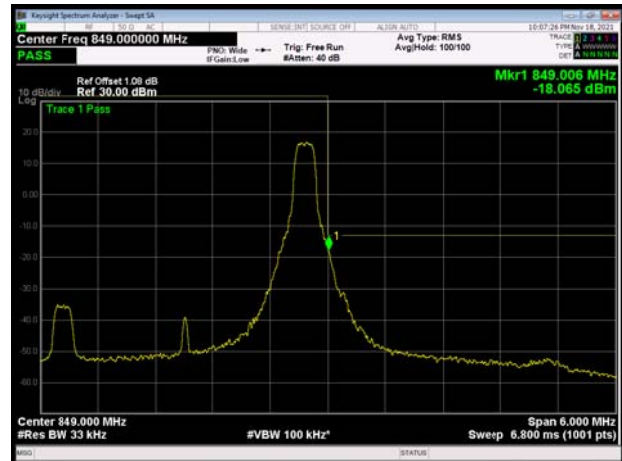




LTE Band 5 3MHz QPSK 1RB CH-Low



LTE Band 5 3MHz QPSK 1RB CH-High



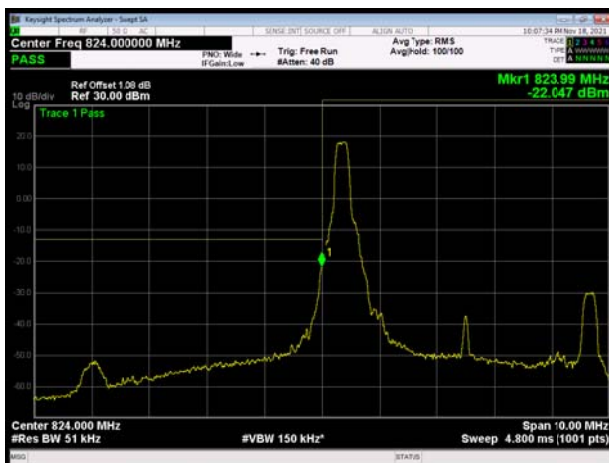
LTE Band 5 3MHz QPSK 100%RB CH-Low



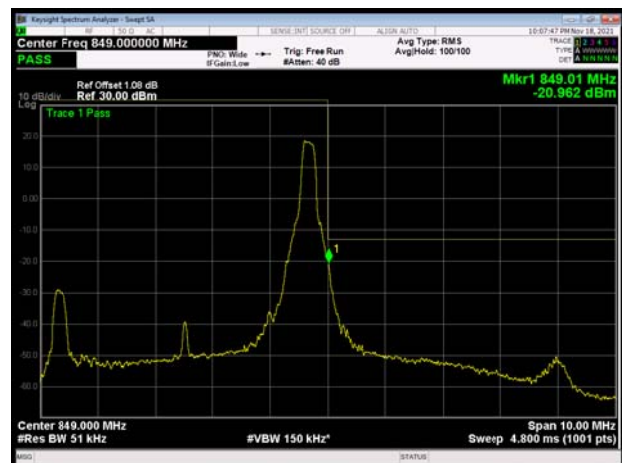
LTE Band 5 3MHz QPSK 100%RB CH-High



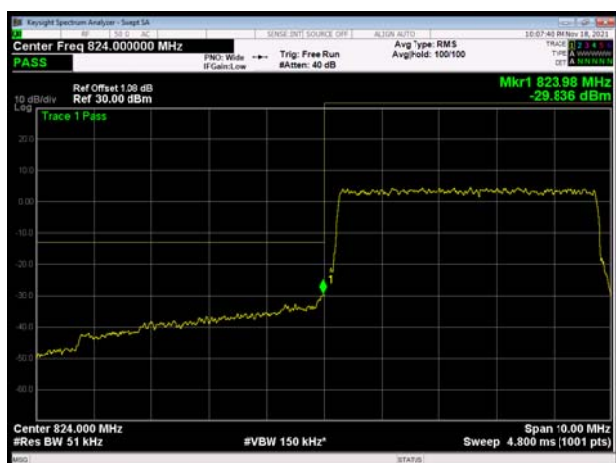
LTE Band 5 5MHz QPSK 1RB CH-Low



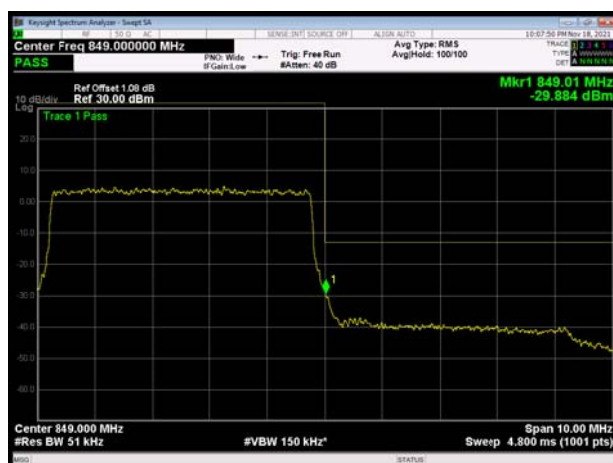
LTE Band 5 5MHz QPSK 1RB CH-High



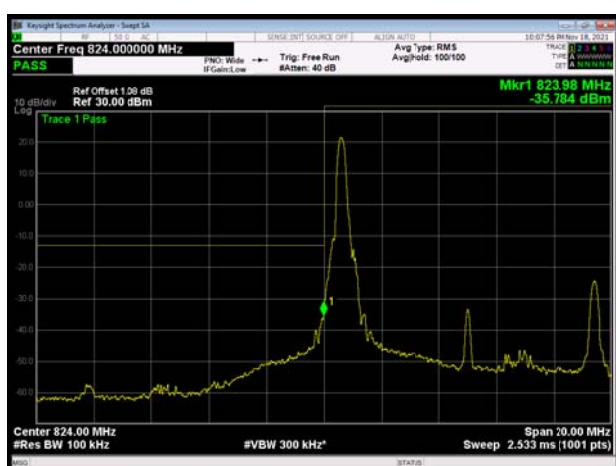
LTE Band 5 5MHz QPSK 100%RB CH-Low



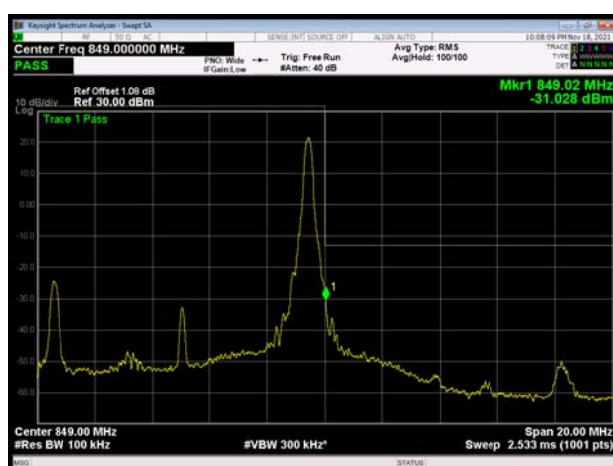
LTE Band 5 5MHz QPSK 100%RB CH-High



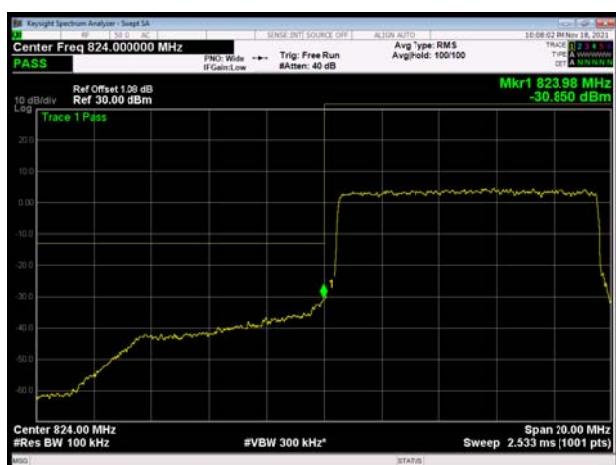
LTE Band 5 10MHz QPSK 1RB CH-Low



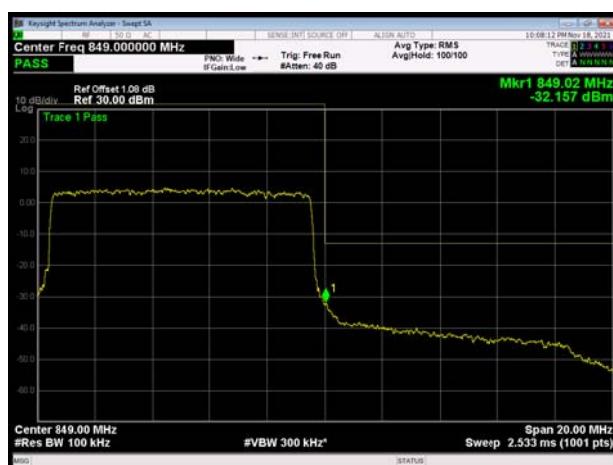
LTE Band 5 10MHz QPSK 1RB CH-High



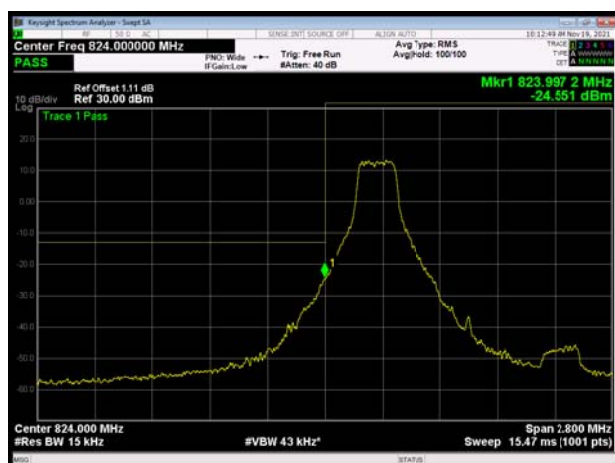
LTE Band 5 10MHz QPSK 100%RB CH-Low



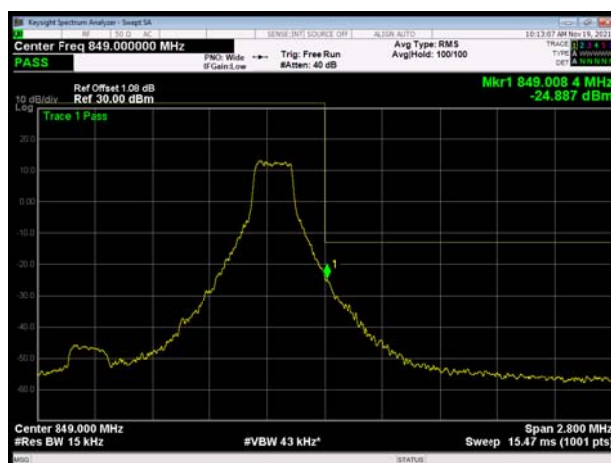
LTE Band 5 10MHz QPSK 100%RB CH-High



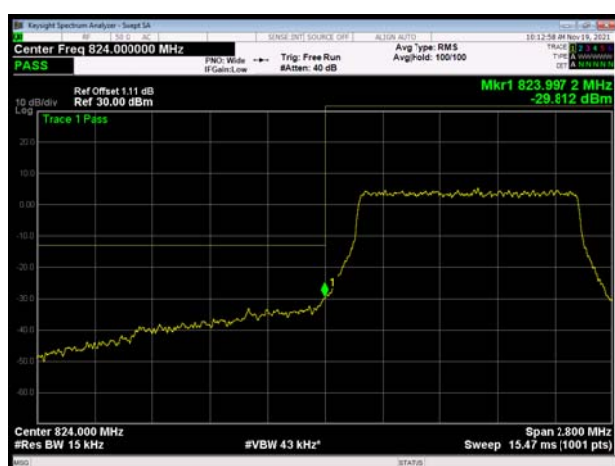
LTE Band 5 1.4MHz 16QAM 1RB CH-Low



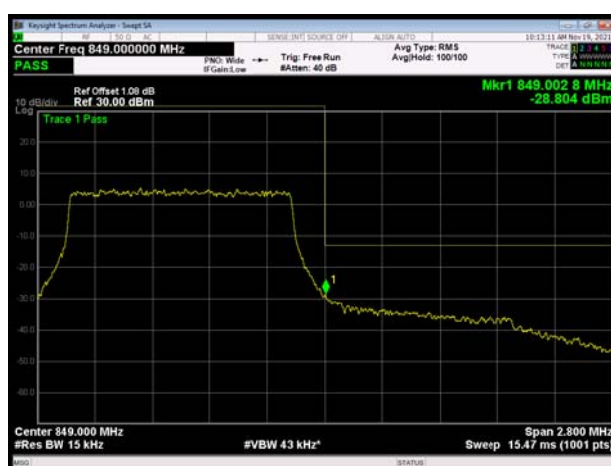
LTE Band 5 1.4MHz 16QAM 1RB CH-High



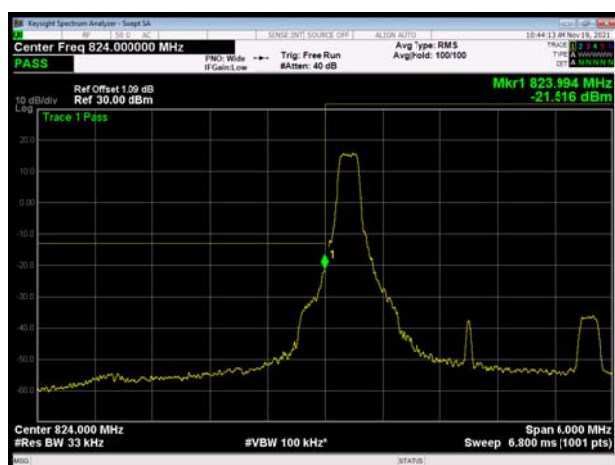
LTE Band 5 1.4MHz 16QAM 100%RB CH-Low



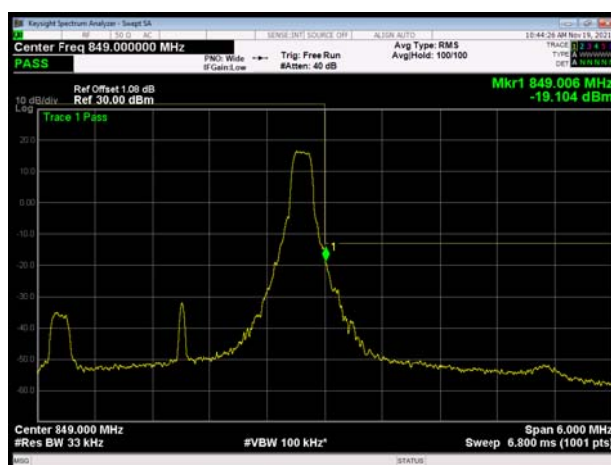
LTE Band 5 1.4MHz 16QAM 100%RB CH-High



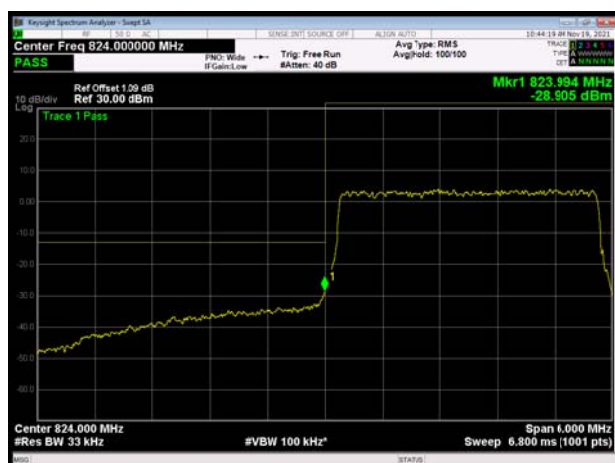
LTE Band 5 3MHz 16QAM 1RB CH-Low



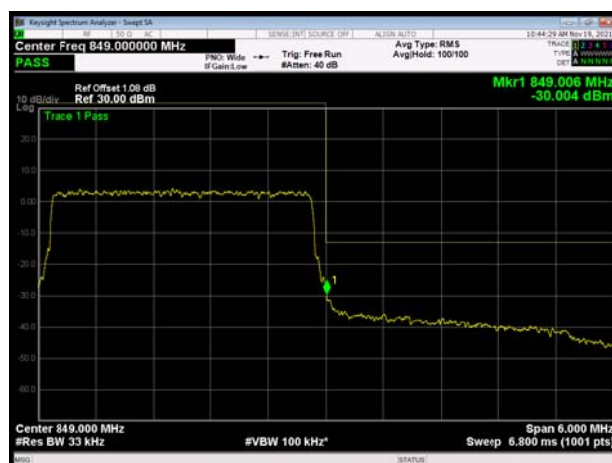
LTE Band 5 3MHz 16QAM 1RB CH-High



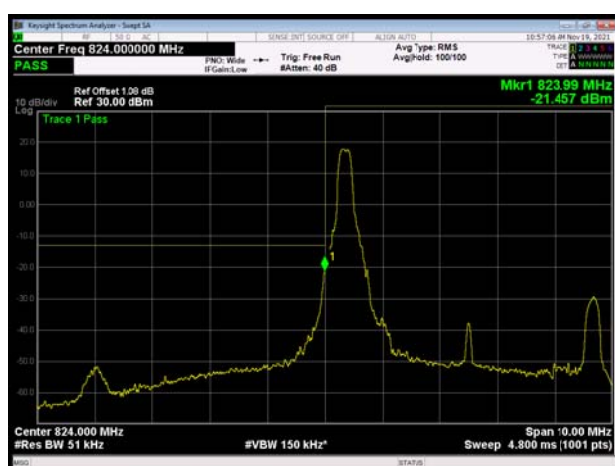
LTE Band 5 3MHz 16QAM 100%RB CH-Low



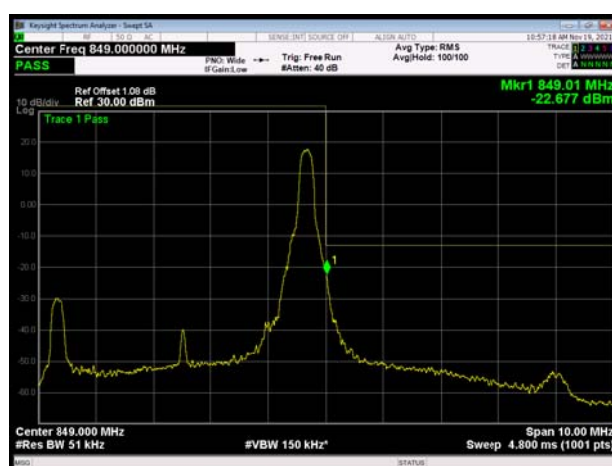
LTE Band 5 3MHz 16QAM 100%RB CH-High



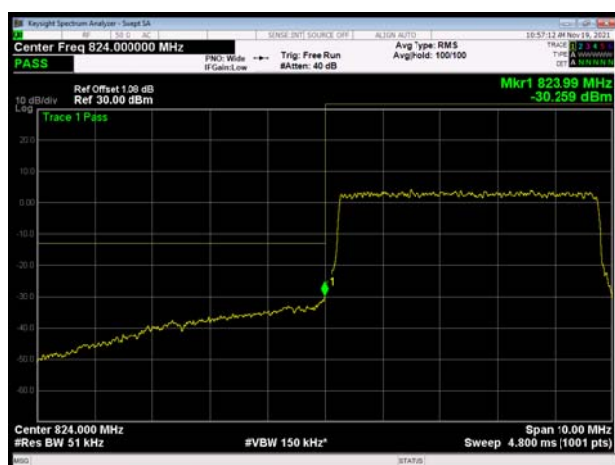
LTE Band 5 5MHz 16QAM 1RB CH-Low



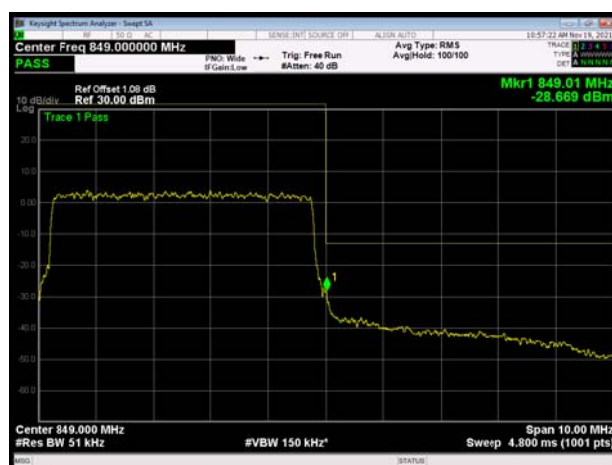
LTE Band 5 5MHz 16QAM 1RB CH-High



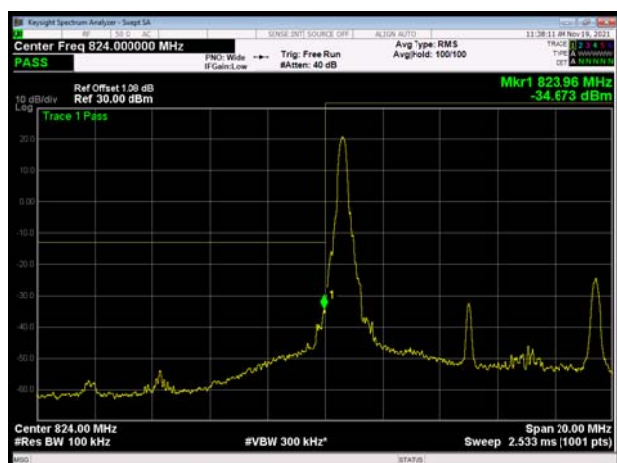
LTE Band 5 5MHz 16QAM 100%RB CH-Low



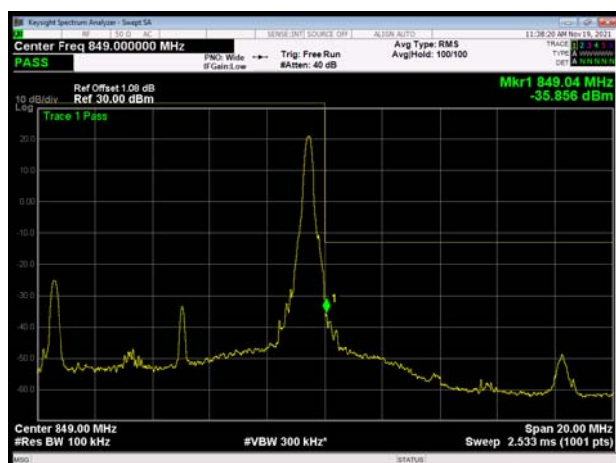
LTE Band 5 5MHz 16QAM 100%RB CH-High



LTE Band 5 10MHz 16QAM 1RB CH-Low



LTE Band 5 10MHz 16QAM 1RB CH-High



Peak-to-Average Power Ratio (PAPR)

Mode	Channel	Frequency (MHz)	Peak(dBm)	Avg(dBm)	PAPR(dB)	Limit(dB)	Conclusion
GSM 850 (GMSK)	128	824.2	32.38	29.62	2.76	≤13	PASS
	190	836.6	31.87	29.12	2.75	≤13	PASS
	251	848.8	32.17	29.39	2.78	≤13	PASS
GPRS 850 (GMSK)	128	824.2	32.41	29.65	2.76	≤13	PASS
	190	836.6	32.37	29.61	2.76	≤13	PASS
	251	848.8	32.60	29.80	2.80	≤13	PASS
EGPRS 850 (8PSK)	128	824.2	28.86	23.06	5.80	≤13	PASS
	190	836.6	28.93	23.02	5.91	≤13	PASS
	251	848.8	29.04	22.92	6.12	≤13	PASS
WCDMA Band V (RMC)	4132	826.4	26.43	23.47	2.96	≤13	PASS
	4183	836.6	26.14	23.41	2.73	≤13	PASS
	4233	846.6	26.37	23.49	2.88	≤13	PASS

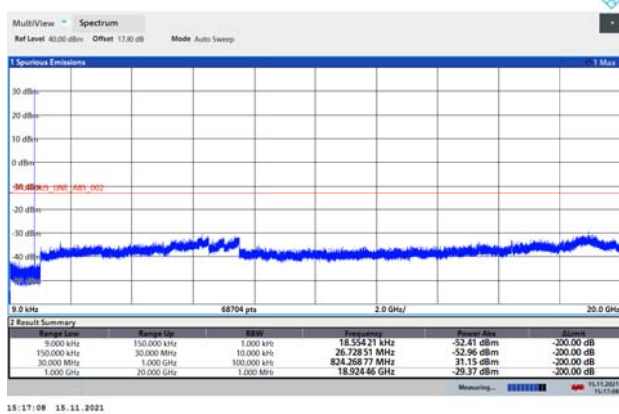
LTE Band 5								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	1.4	20407	824.7	27.47	22.76	4.71	≤13	PASS
		20525	836.5	27.06	22.58	4.48	≤13	PASS
		20643	848.3	27.00	22.61	4.39	≤13	PASS
	3	20415	825.5	27.54	22.72	4.82	≤13	PASS
		20525	836.5	27.09	22.58	4.51	≤13	PASS
		20635	847.5	27.14	22.57	4.57	≤13	PASS
	5	20425	826.5	27.50	22.69	4.81	≤13	PASS
		20525	836.5	27.08	22.61	4.47	≤13	PASS
		20625	846.5	27.20	22.54	4.66	≤13	PASS
	10	20450	829	27.42	22.73	4.69	≤13	PASS
		20525	836.5	27.24	22.68	4.56	≤13	PASS
		20600	844	27.41	22.65	4.76	≤13	PASS
16QAM	1.4	20407	824.7	27.49	21.93	5.56	≤13	PASS
		20525	836.5	27.01	21.56	5.45	≤13	PASS
		20643	848.3	27.13	21.87	5.26	≤13	PASS
	3	20415	825.5	27.57	21.88	5.69	≤13	PASS
		20525	836.5	27.06	21.63	5.43	≤13	PASS
		20635	847.5	27.17	21.71	5.46	≤13	PASS



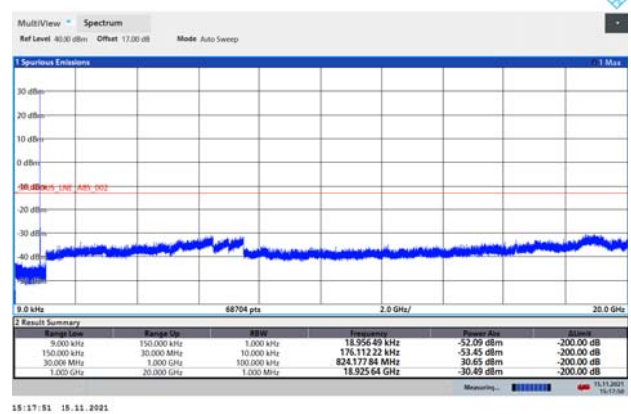
	5	20425	826.5	27.52	21.82	5.70	≤13	PASS
		20525	836.5	27.12	21.87	5.25	≤13	PASS
		20625	846.5	27.19	21.62	5.57	≤13	PASS

Spurious Emissions at Antenna Terminals

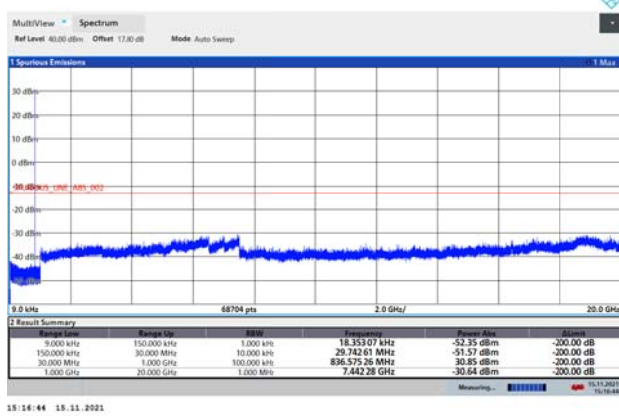
GSM 850 CH-Low 9kHz ~ 20GHz



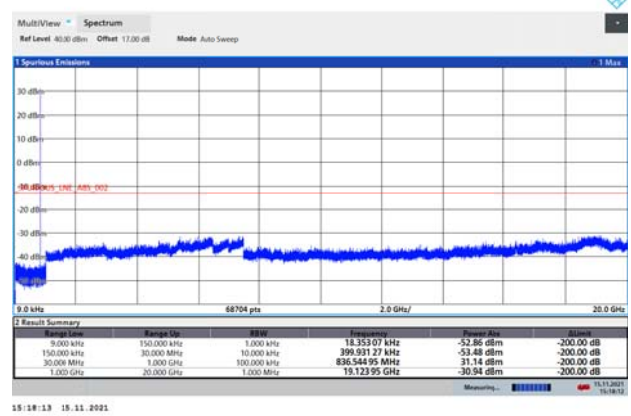
GPRS 850 CH-Low 9kHz ~ 20GHz



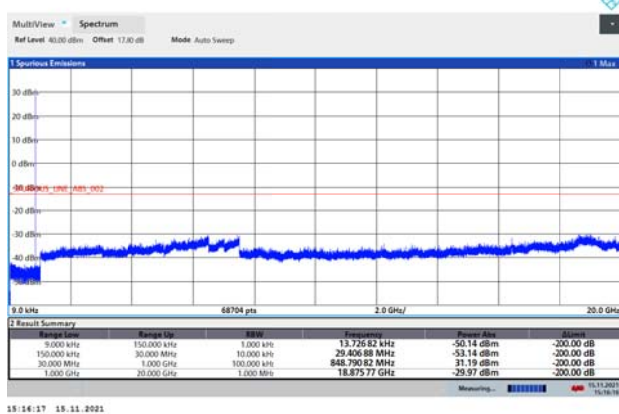
GSM 850 CH- Middle 9kHz ~ 20GHz



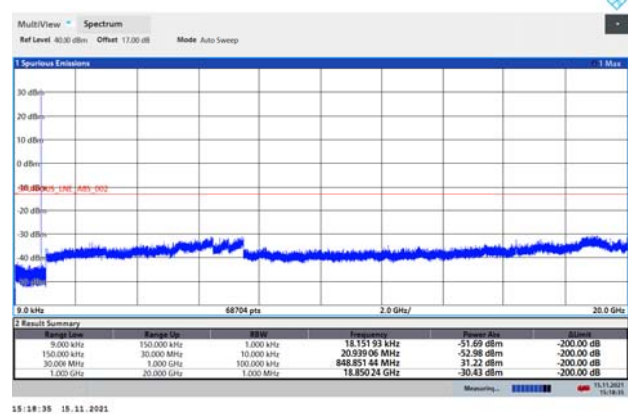
GPRS 850 CH- Middle 9kHz ~ 20GHz



GSM 850 CH-High 9kHz ~ 20GHz

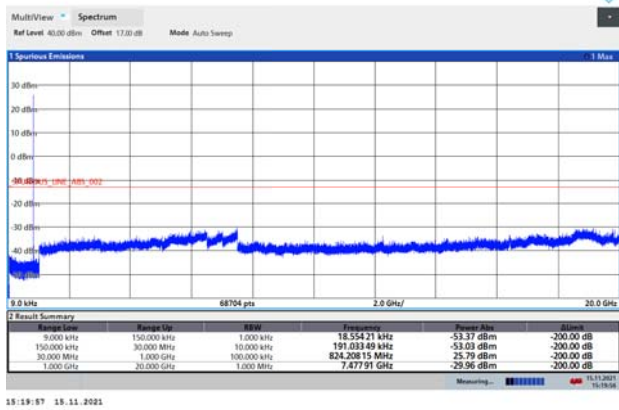


GPRS 850 CH-High 9kHz ~ 20GHz



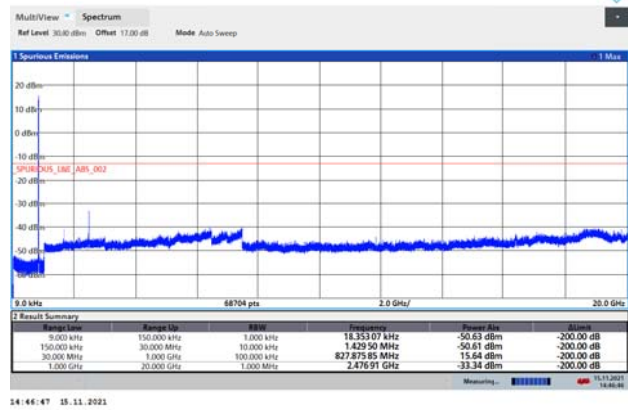


EGPRS 850 CH-Low 9kHz ~ 20GHz



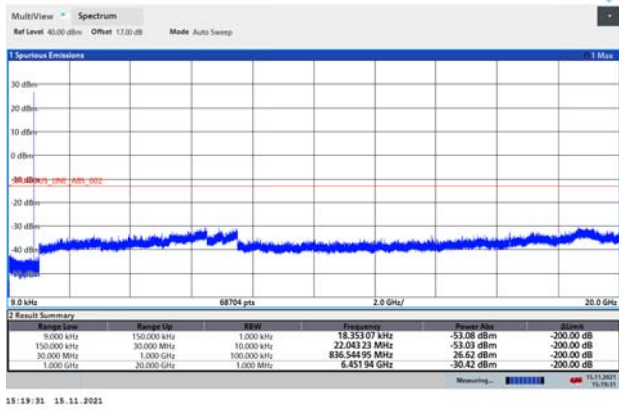
15:19:57 15.11.2021

WCDMA Band V CH-Low 9kHz~20GHz



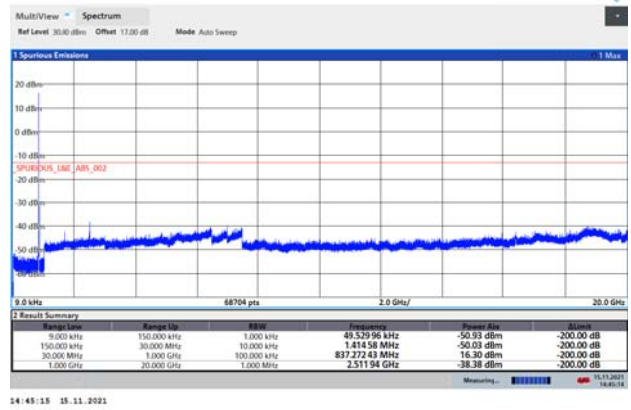
14:44:47 15.11.2021

EGPRS 850 CH- Middle 9kHz ~ 20GHz



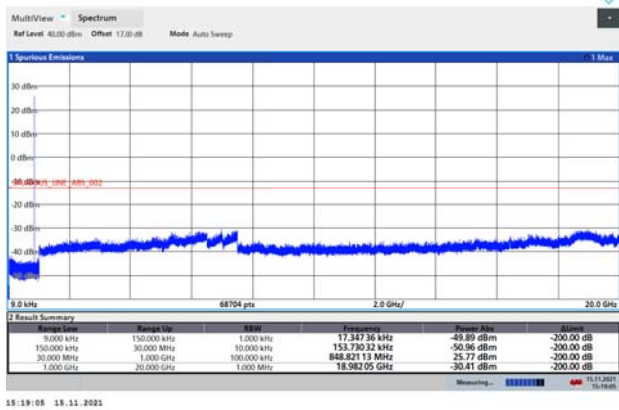
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WCDMA Band V CH-Middle 9kHz~20GHz



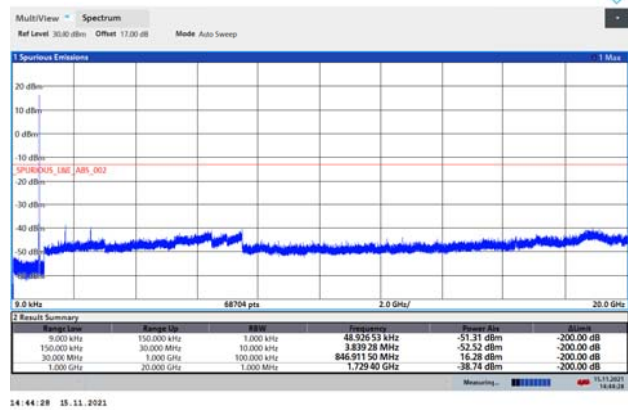
14:45:15 15.11.2021

EGPRS 850 CH-High 9kHz ~ 20GHz



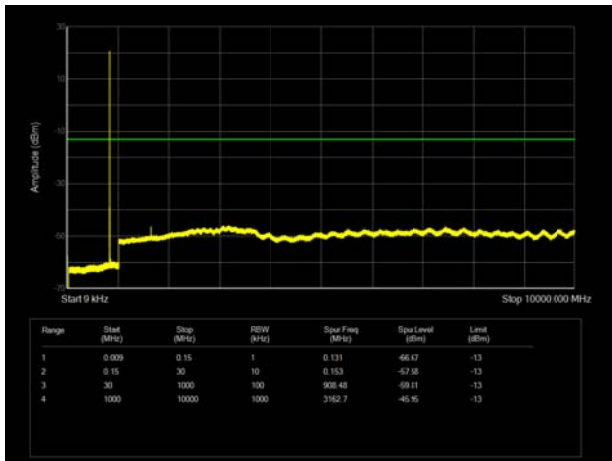
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WCDMA Band V CH-High 9kHz~20GHz

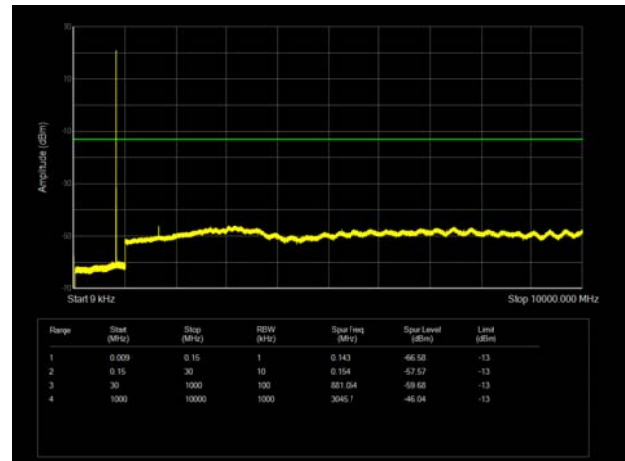


14:44:28 15.11.2021

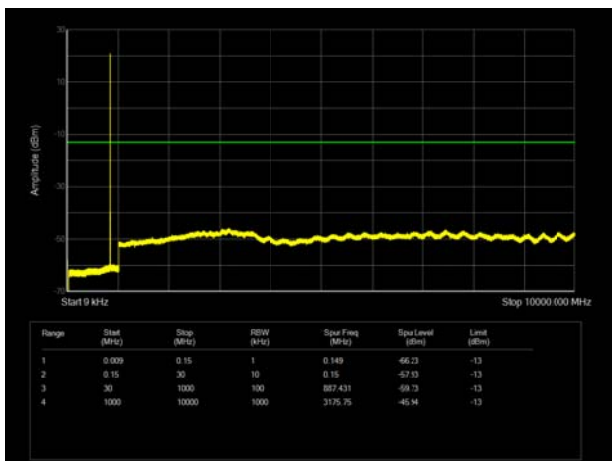
LTE Band 5 1.4MHz CH-Low 9kHz~10GHz



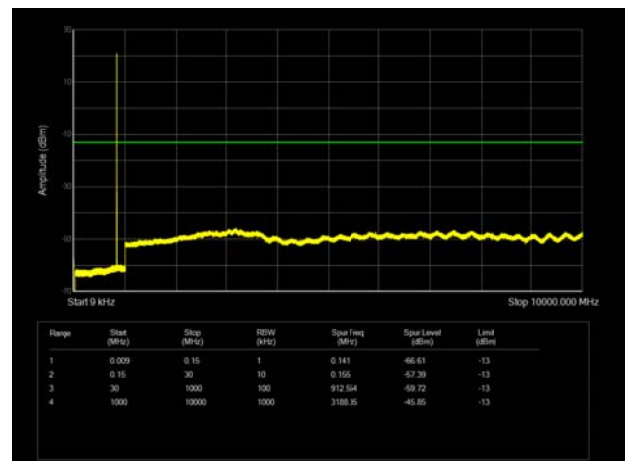
LTE Band 5 3MHz CH-Low 9kHz~10GHz



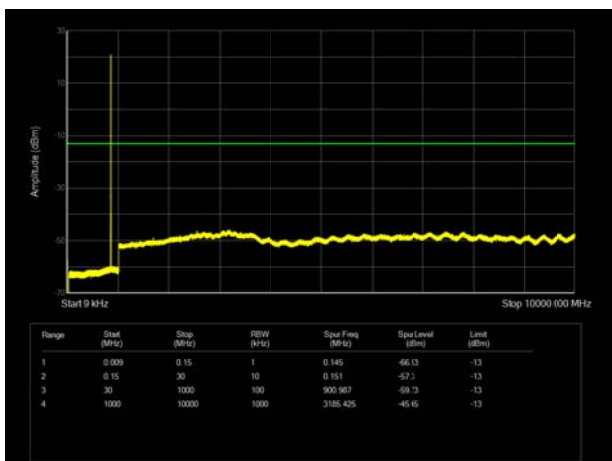
LTE Band 5 1.4MHz CH-Middle 9kHz~10GHz



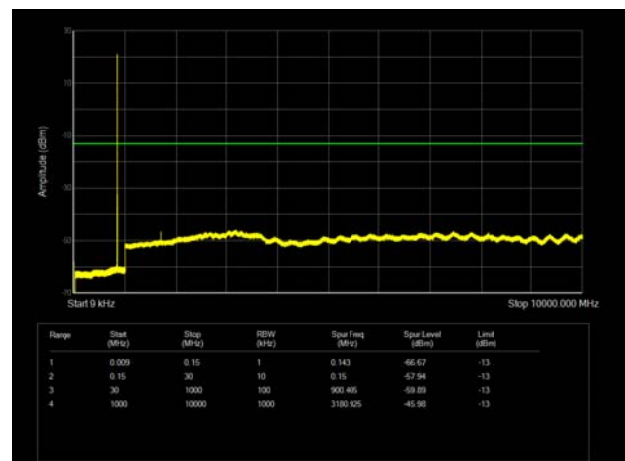
LTE Band 5 3MHz CH-Middle 9kHz~10GHz



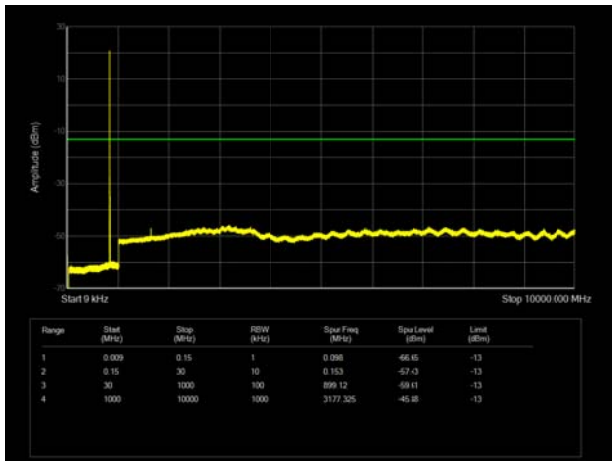
LTE Band 5 1.4MHz CH-High 9kHz~10GHz



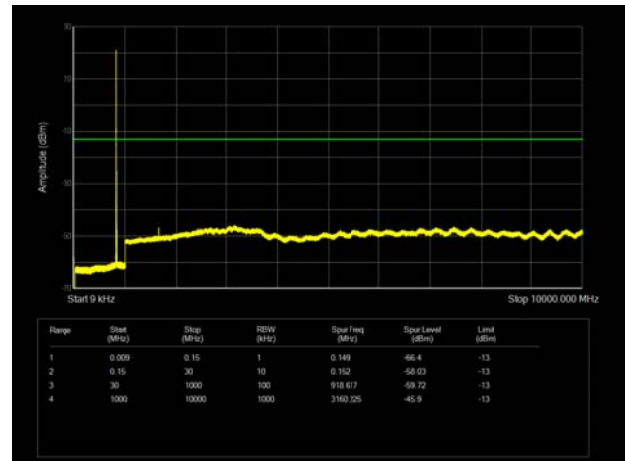
LTE Band 5 3MHz CH-High 9kHz~10GHz



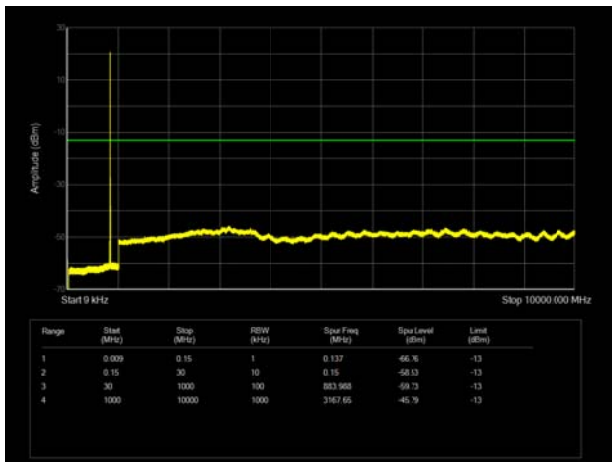
LTE Band 5 5MHz CH-Low 9kHz~10GHz



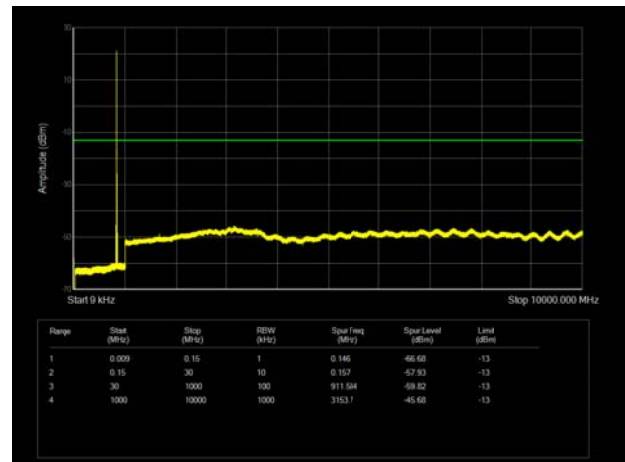
LTE Band 5 10MHz CH-Low 9kHz~10GHz



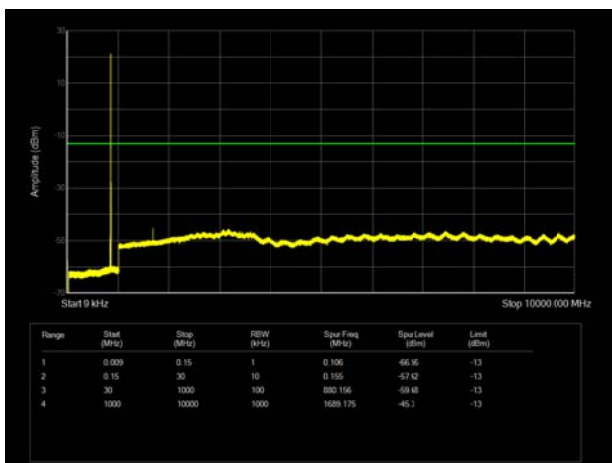
LTE Band 5 5MHz CH-Middle 9kHz~10GHz



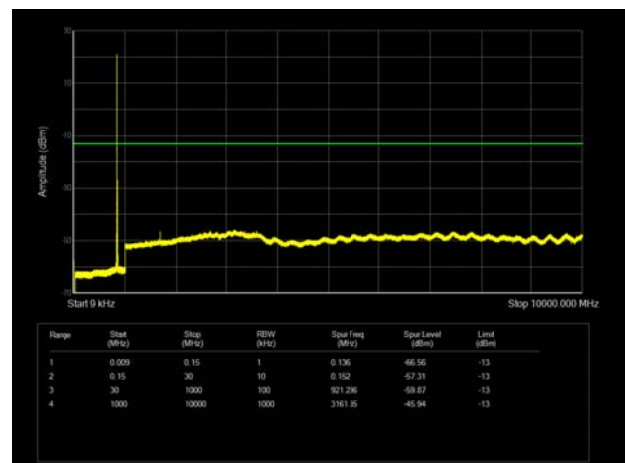
LTE Band 5 10MHz CH-Middle 9kHz~10GHz



LTE Band 5 5MHz CH-High 9kHz~10GHz



LTE Band 5 10MHz CH-High 9kHz~10GHz



Radiates Spurious Emission

GSM 850 CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1673.1	-57.21	2.00	10.75	Horizontal	-50.61	-13.00	37.61	45
3	2509.5	-54.67	2.51	11.05	Horizontal	-48.28	-13.00	35.28	135
4	3346.4	-62.08	4.20	11.15	Horizontal	-57.28	-13.00	44.28	90
5	4183.0	-59.87	5.20	11.15	Horizontal	-56.07	-13.00	43.07	225
6	5019.6	-57.63	5.50	11.95	Horizontal	-53.33	-13.00	40.33	45
7	5856.2	-56.75	5.70	13.55	Horizontal	-51.05	-13.00	38.05	135
8	6692.8	-57.48	6.30	13.75	Horizontal	-52.18	-13.00	39.18	90
9	7529.4	-52.43	6.80	13.85	Horizontal	-47.53	-13.00	34.53	45
10	8366.0	-54.81	6.90	14.25	Horizontal	-49.61	-13.00	36.61	135

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2.The worst emission was found in the antenna is Horizontal position.

WCDMA Band V CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1675.6	-63.32	1.70	8.70	Horizontal	-58.47	-13.00	45.47	0
3	2513.3	-62.67	2.30	12.00	Horizontal	-55.12	-13.00	42.12	315
4	3351.2	-58.17	2.70	12.70	Horizontal	-50.32	-13.00	37.32	270
5	4186.5	-60.73	3.00	12.50	Horizontal	-53.38	-13.00	40.38	90
6	5019.6	-57.79	3.40	12.50	Horizontal	-50.84	-13.00	37.84	270
7	5856.2	-57.71	3.40	12.80	Horizontal	-50.46	-13.00	37.46	135
8	6692.8	-58.02	4.10	11.50	Horizontal	-52.77	-13.00	39.77	270
9	7529.4	-53.79	4.20	12.20	Horizontal	-47.94	-13.00	34.94	90
10	8366.0	-55.23	4.30	12.50	Horizontal	-49.18	-13.00	36.18	90

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2.The worst emission was found in the antenna is Horizontal position.



LTE Band 5 1.4MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1672.2	-64.52	2.00	10.75	Horizontal	-57.92	-13.00	44.92	270
3	2508.2	-60.81	2.51	11.05	Horizontal	-54.42	-13.00	41.42	270
4	3346.0	-54.67	4.20	11.15	Horizontal	-49.87	-13.00	36.87	0
5	4182.5	-58.53	5.20	11.15	Horizontal	-54.73	-13.00	41.73	270
6	5019.0	-57.29	5.50	11.95	Horizontal	-52.99	-13.00	39.99	135
7	5855.5	-56.71	5.70	13.55	Horizontal	-51.01	-13.00	38.01	270
8	6692.0	-56.23	6.30	13.75	Horizontal	-50.93	-13.00	37.93	270
9	7528.5	-54.06	6.80	13.85	Horizontal	-49.16	-13.00	36.16	315
10	8365.0	-54.05	6.90	14.25	Horizontal	-48.85	-13.00	35.85	45

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2.The worst emission was found in the antenna is Horizontal position.

Main Test Instruments

Date of Testing (variant): September 28, 2021~ December 1, 2021

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Base Station Simulator	R&S	CMW500	113824	2021-05-15	2022-05-14
Climate Chamber	Weiss	VT4002	58226119450010	2021-05-15	2022-05-14
Spectrum Analyzer	Key sight	N9020	MY52330084	2021-05-15	2022-05-14
Signal Analyzer	R&S	FSV3030	101411	2020-12-13	2021-12-12
Signal Analyzer	R&S	FSV30	100815	2020-12-13	2021-12-12
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	01111	2019--9-12	2022-09-11
Horn Antenna	Schwarzbeck	BBHA 9120D	1594	2020-12-17	2021-12-16