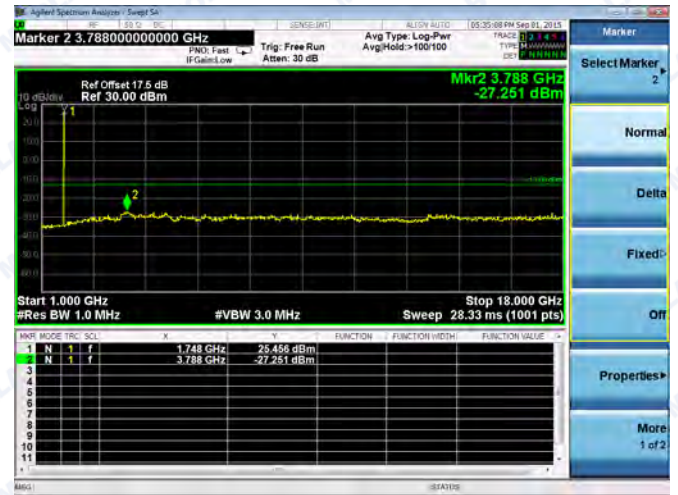




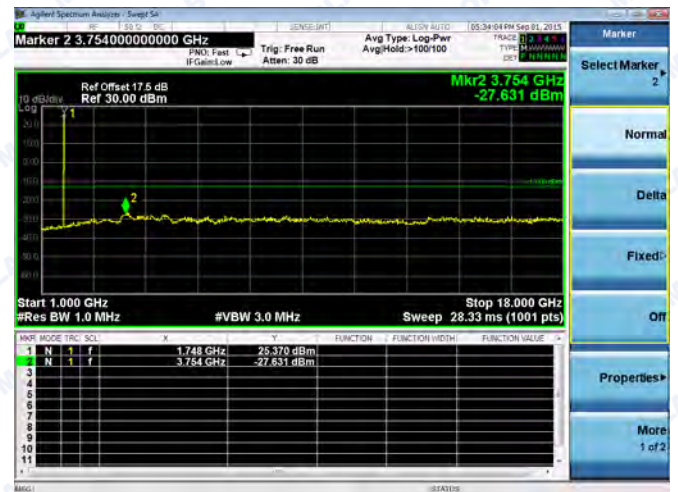
REPORT No.: SZ15080014W02

LTE Band 4 15MHz BW High Channel

QPSK



16QAM

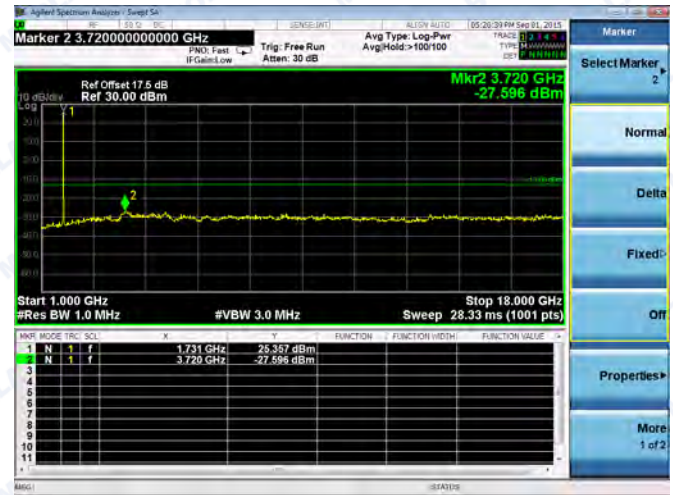




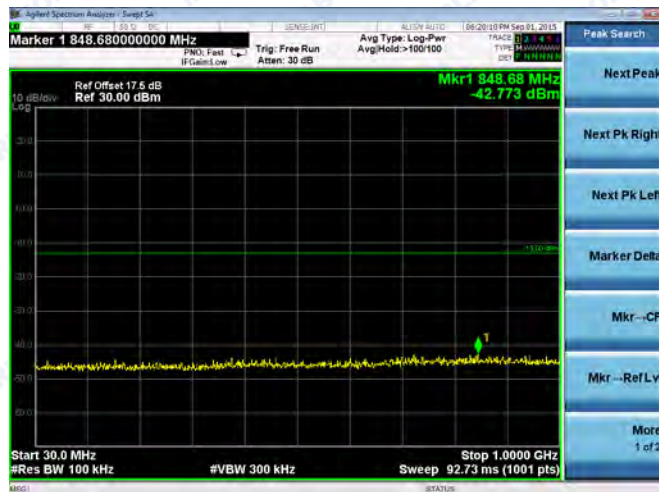
REPORT No.: SZ15080014W02

LTE Band 4 20MHz BW High Channel

QPSK



16QAM

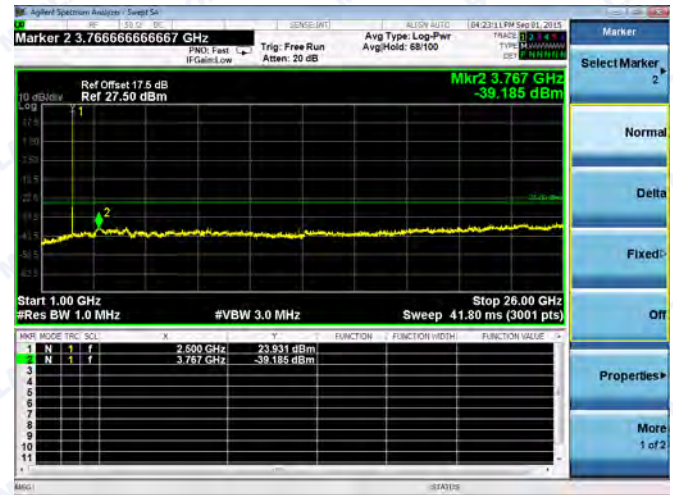
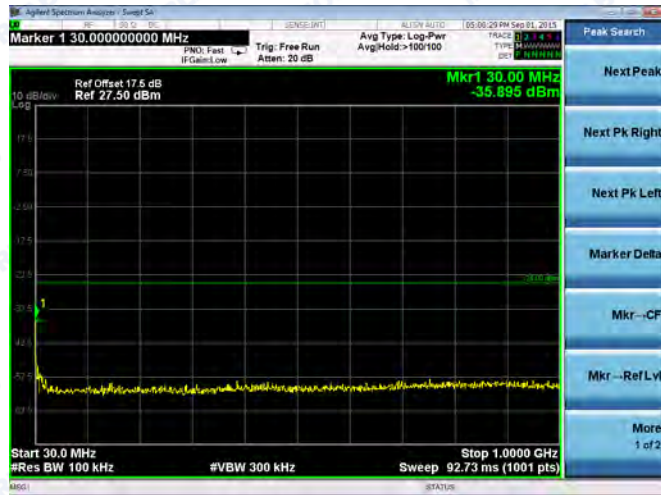




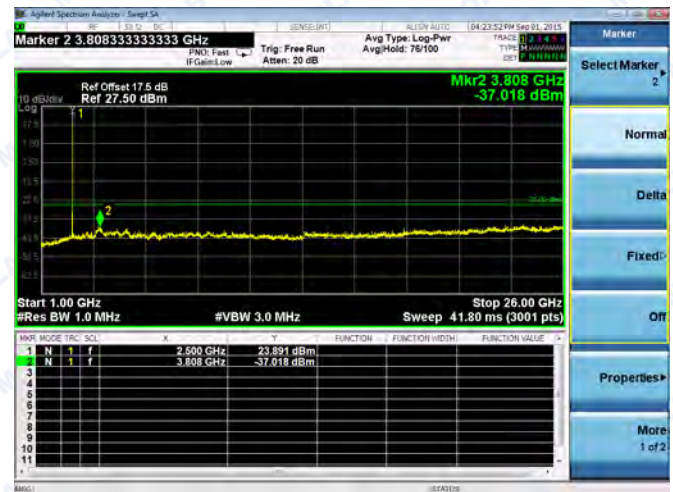
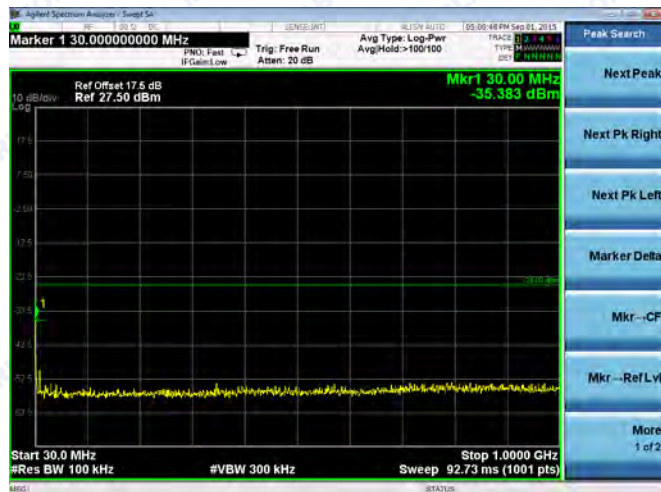
REPORT No.: SZ15080014W02

LTE Band 7 5MHz BW Low Channel

QPSK



16QAM

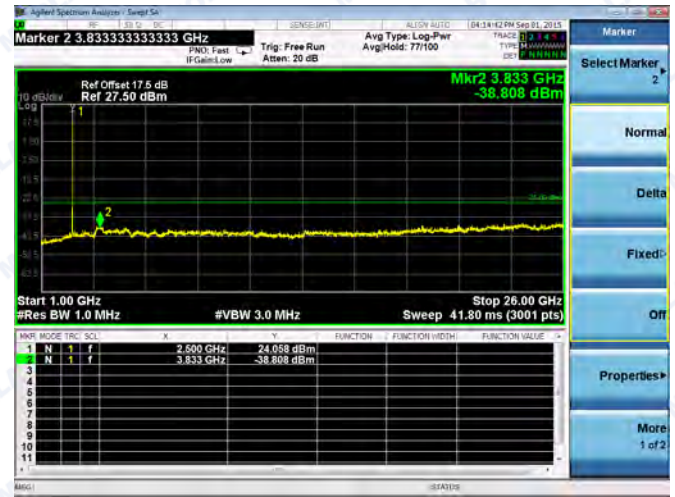
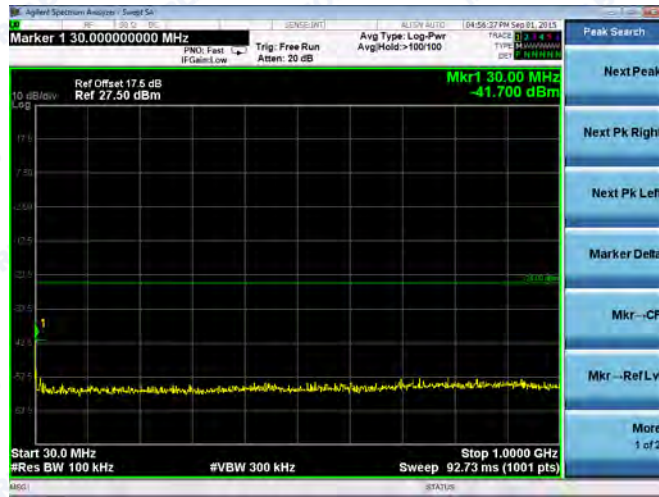




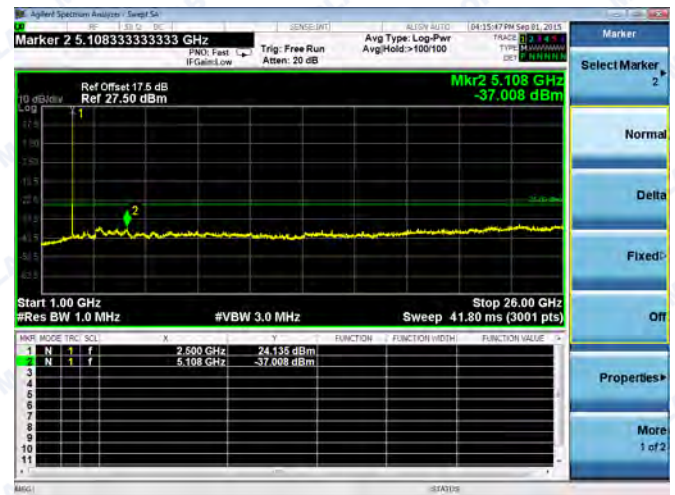
REPORT No.: SZ15080014W02

LTE Band 7 10MHz BW Low Channel

QPSK



16QAM

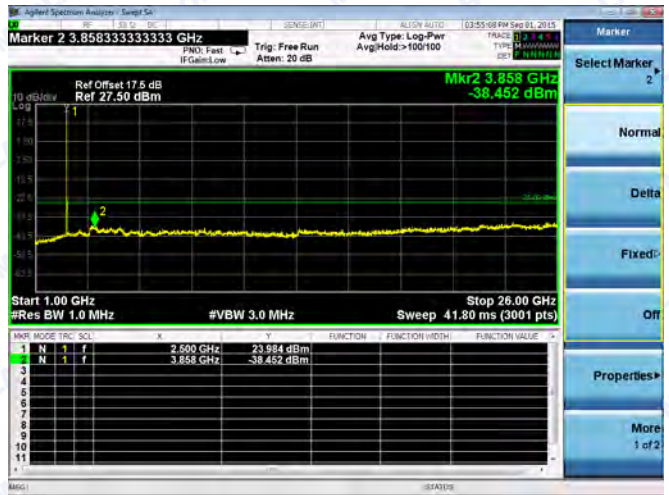
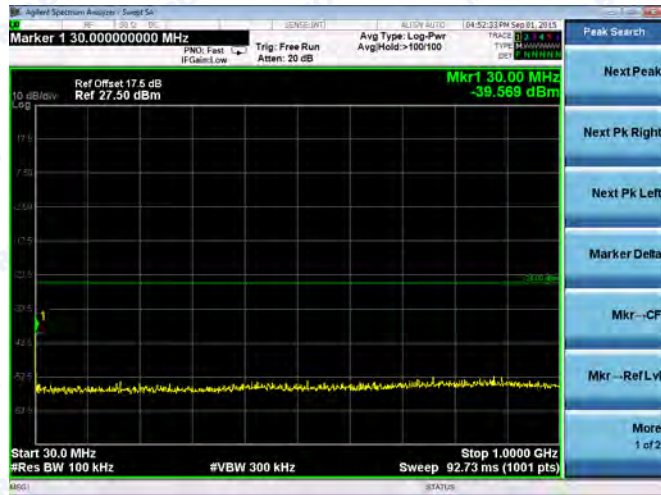




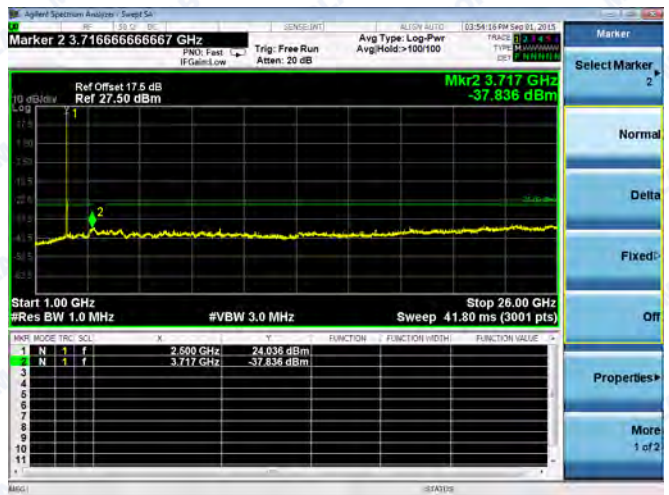
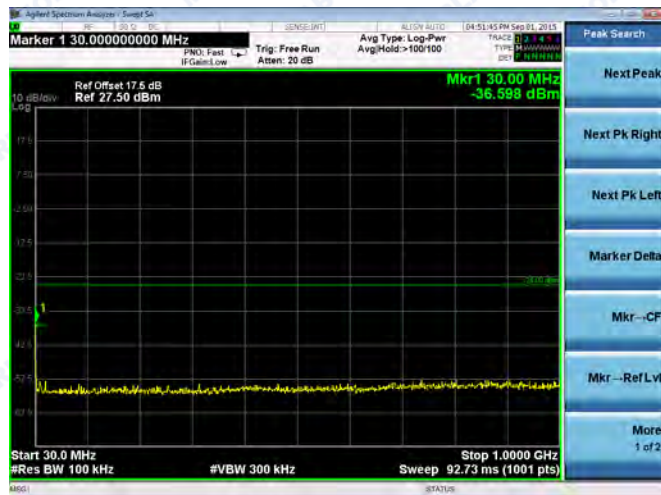
REPORT No.: SZ15080014W02

LTE Band 7 15MHz BW Low Channel

QPSK



16QAM

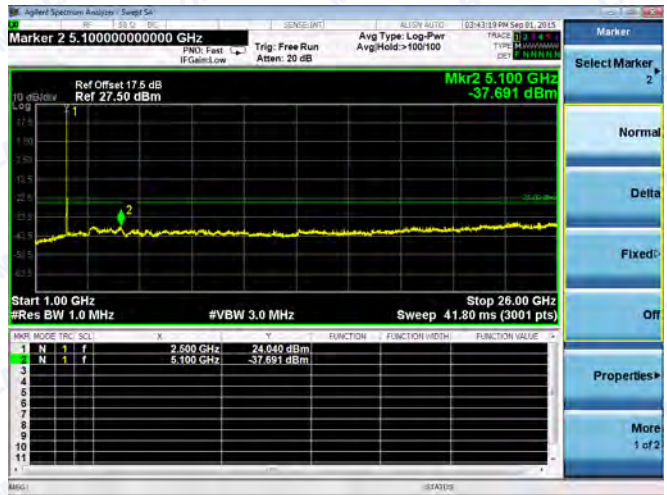
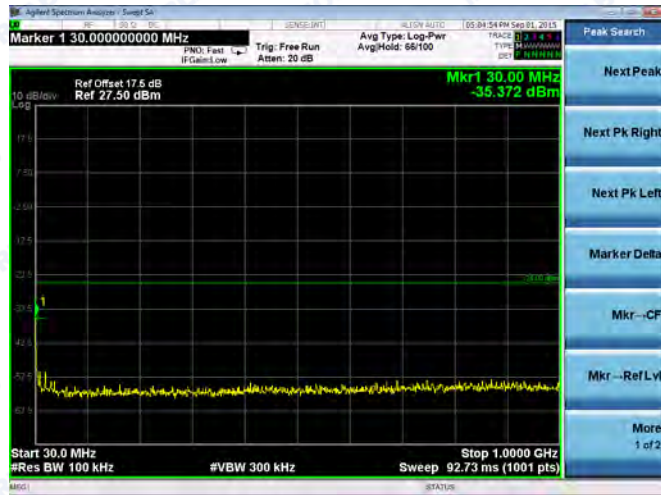




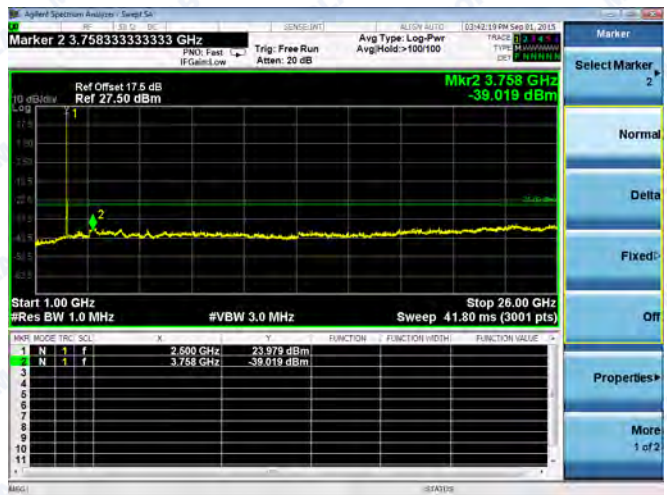
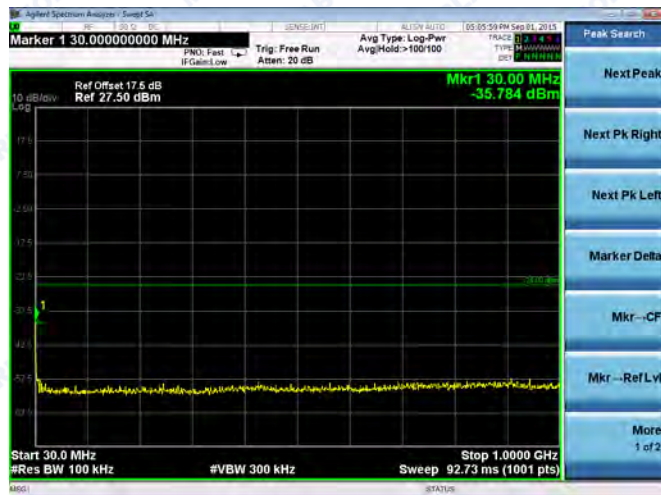
REPORT No.: SZ15080014W02

LTE Band 7 20MHz BW Low Channel

QPSK



16QAM



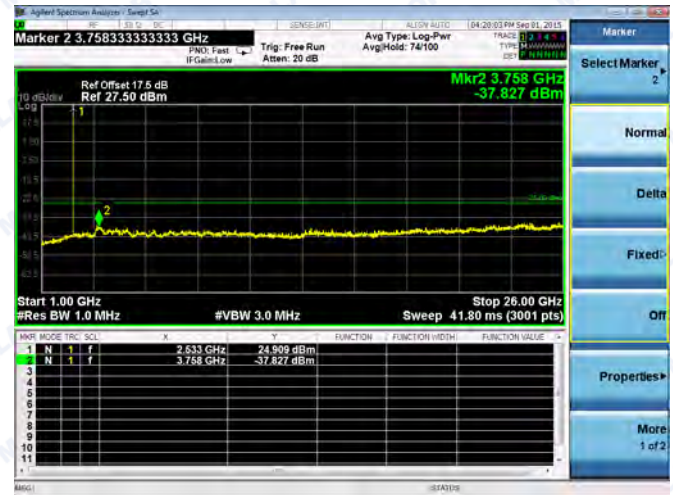
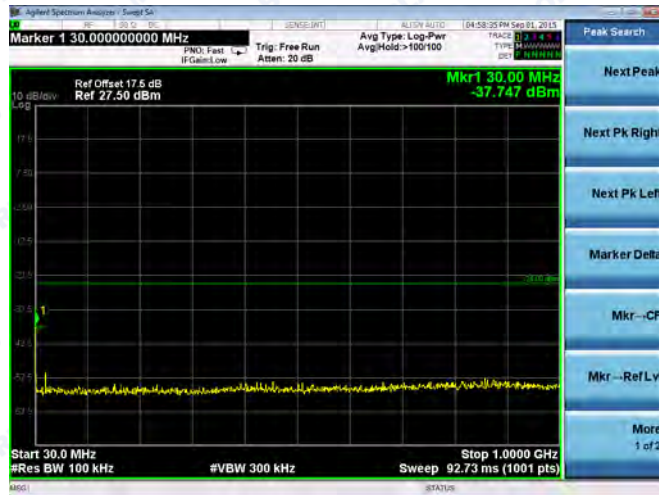


REPORT No.: SZ15080014W02

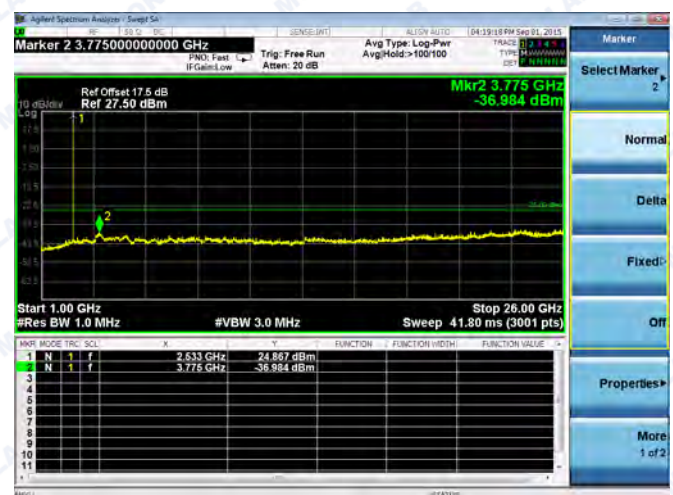
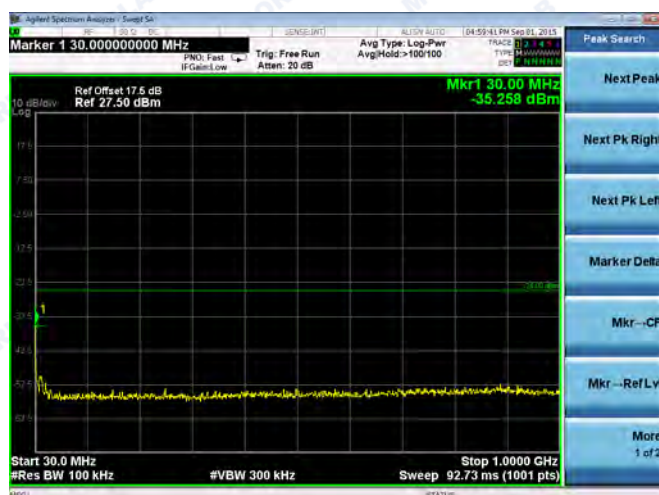
Middle channel:

LTE Band 7 5MHz BW Mid Channel

QPSK



16QAM

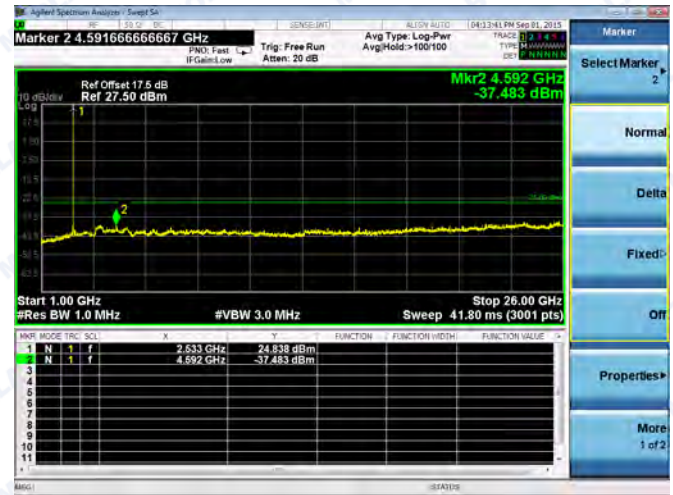
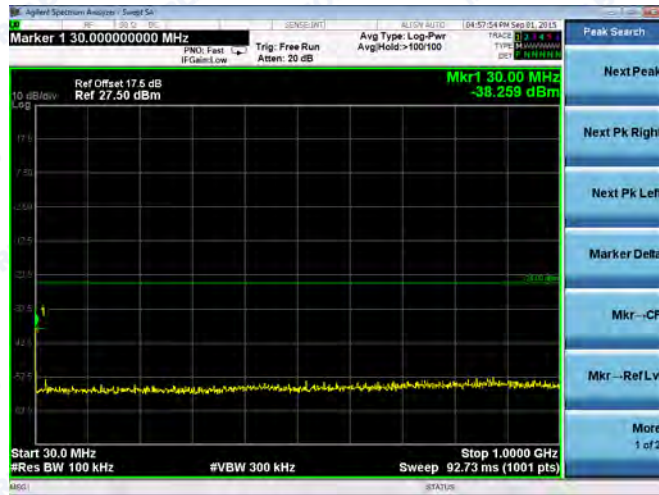




REPORT No.: SZ15080014W02

LTE Band 7 10MHz BW Mid Channel

QPSK



16QAM

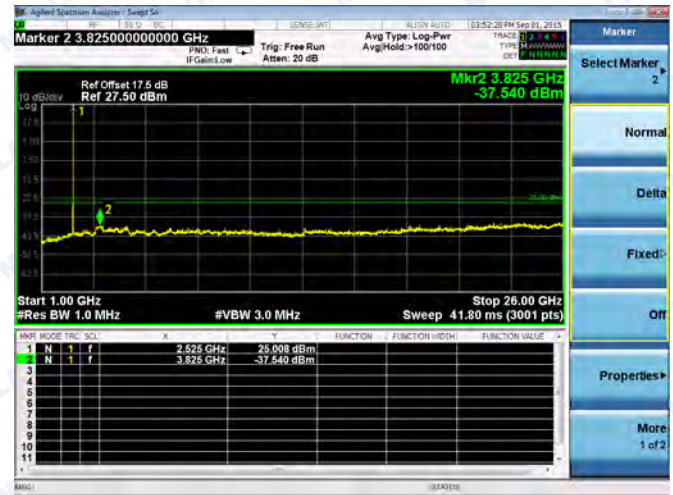
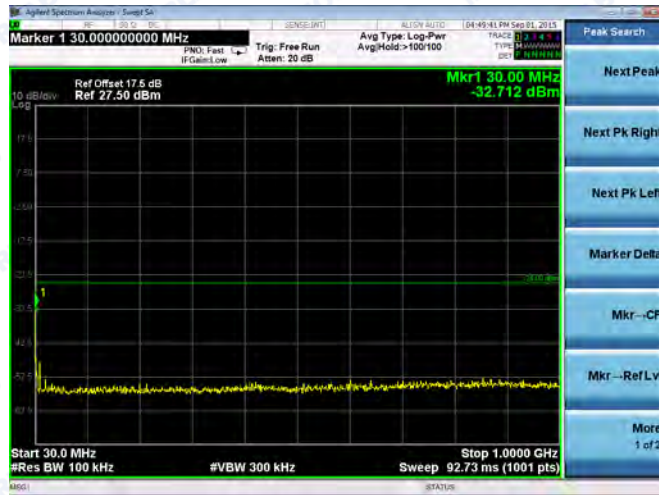




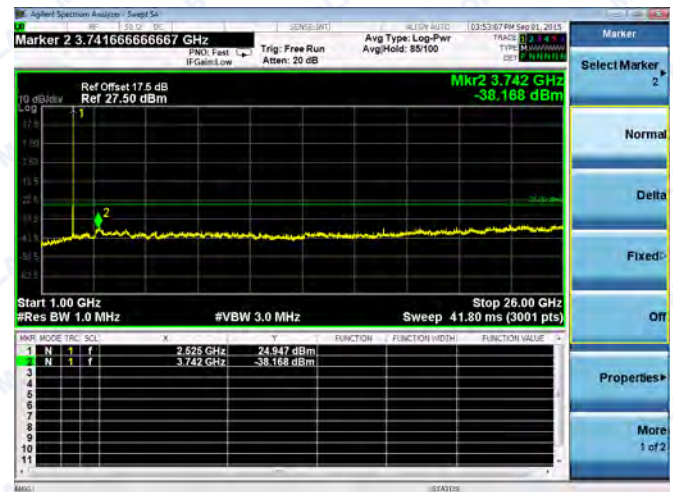
REPORT No.: SZ15080014W02

LTE Band 7 15MHz BW Mid Channel

QPSK



16QAM

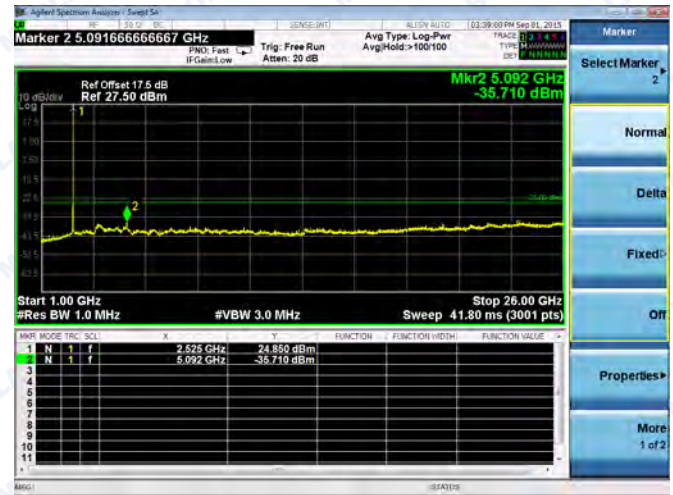
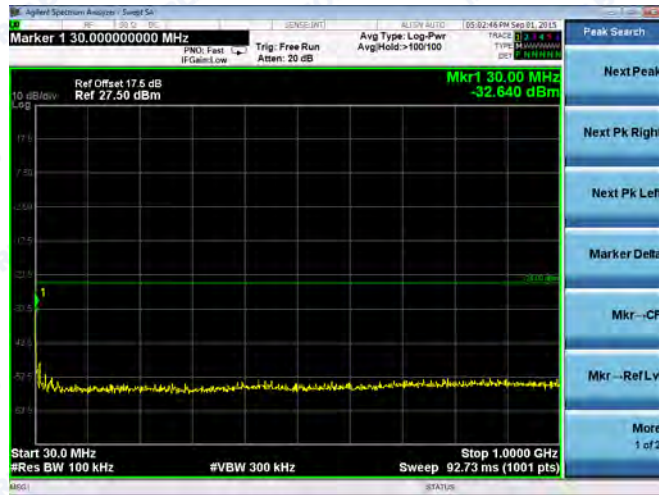




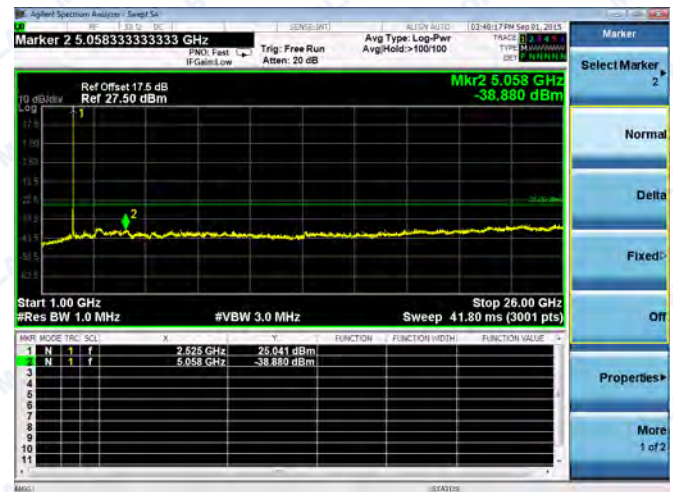
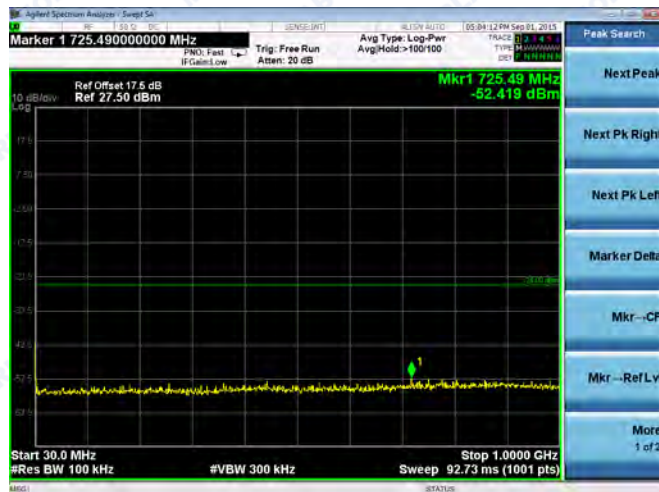
REPORT No.: SZ15080014W02

LTE Band 7 20MHz BW Mid Channel

QPSK



16QAM

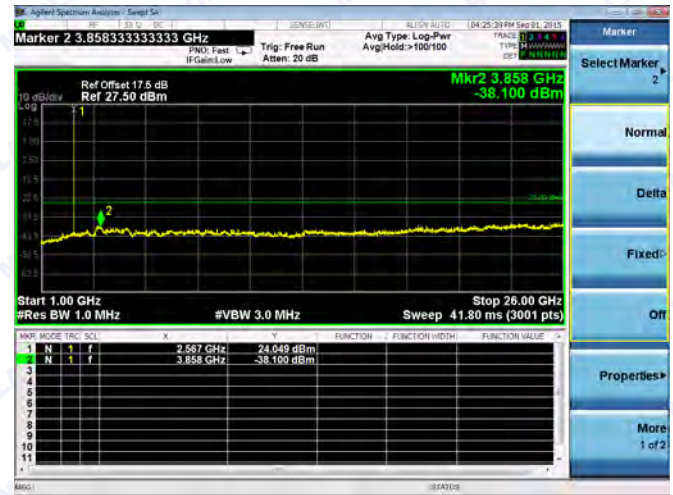
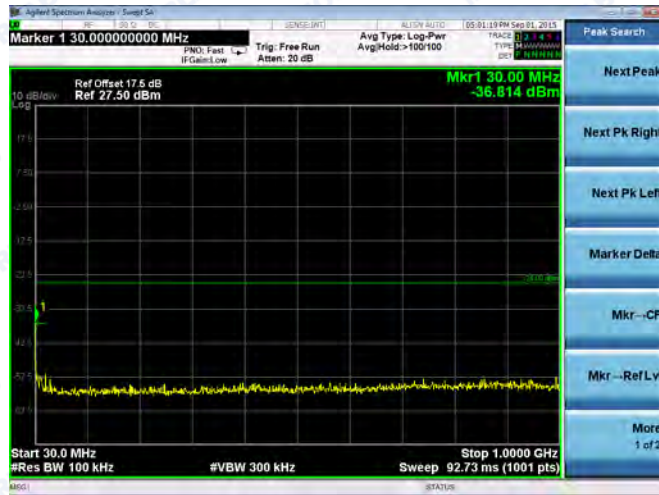




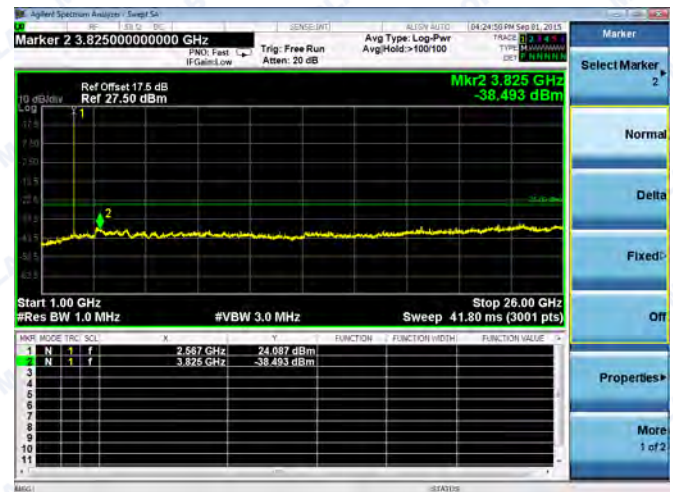
REPORT No.: SZ15080014W02

LTE Band 7 5MHz BW High Channel

QPSK



16QAM

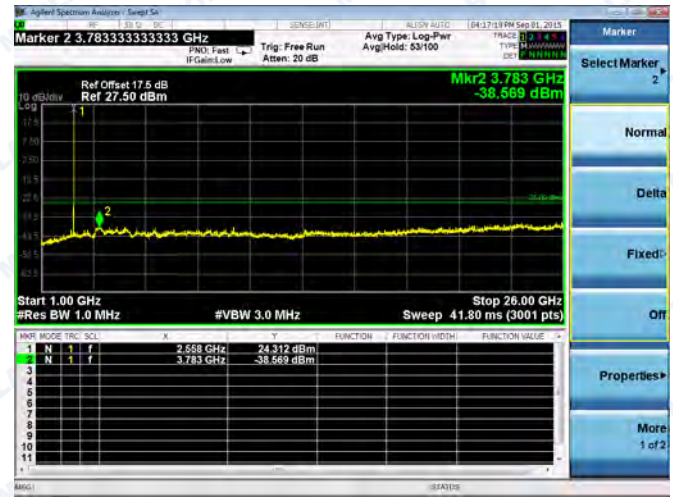




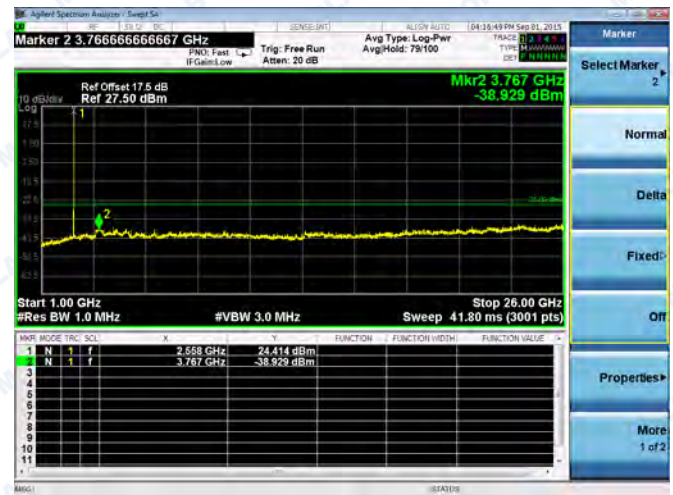
REPORT No.: SZ15080014W02

LTE Band 7 10MHz BW High Channel

QPSK



16QAM

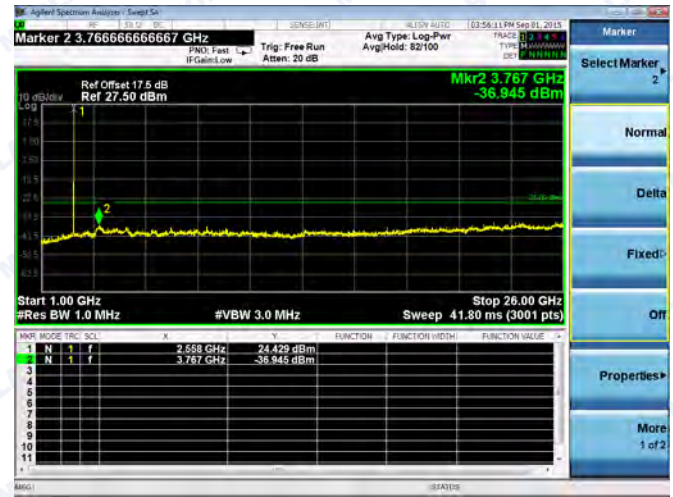




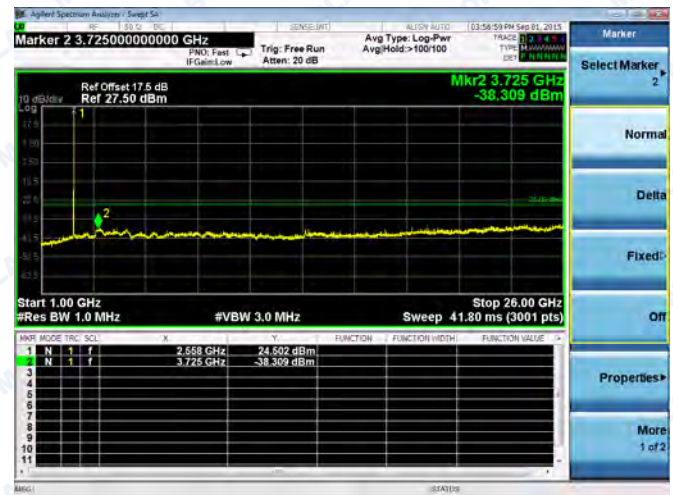
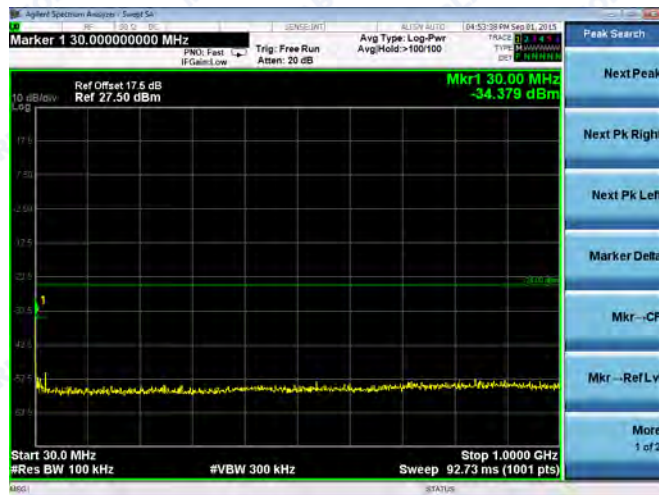
REPORT No.: SZ15080014W02

LTE Band 7 15MHz BW High Channel

QPSK



16QAM

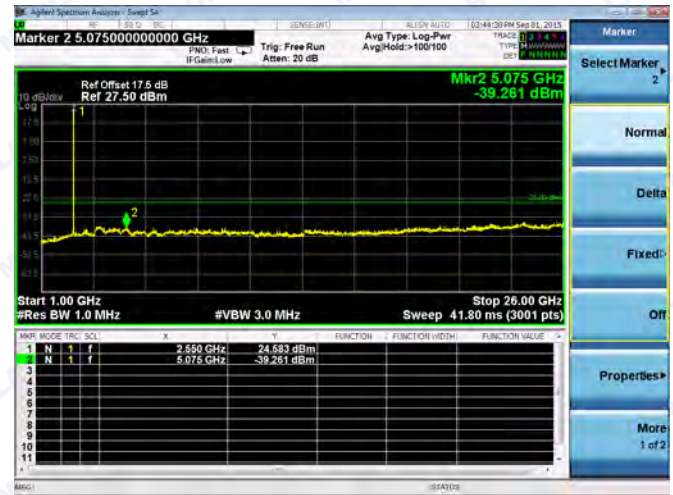
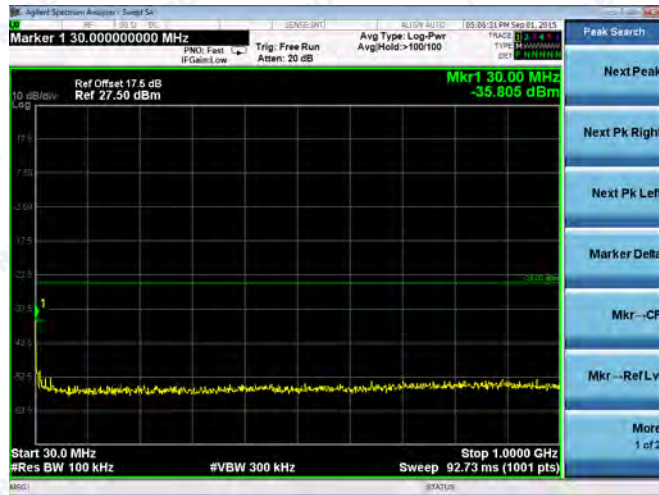




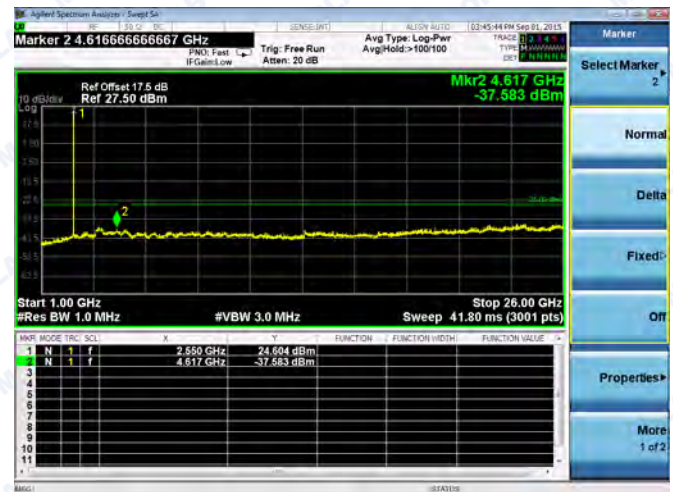
REPORT No.: SZ15080014W02

LTE Band 7 20MHz BW High Channel

QPSK



16QAM

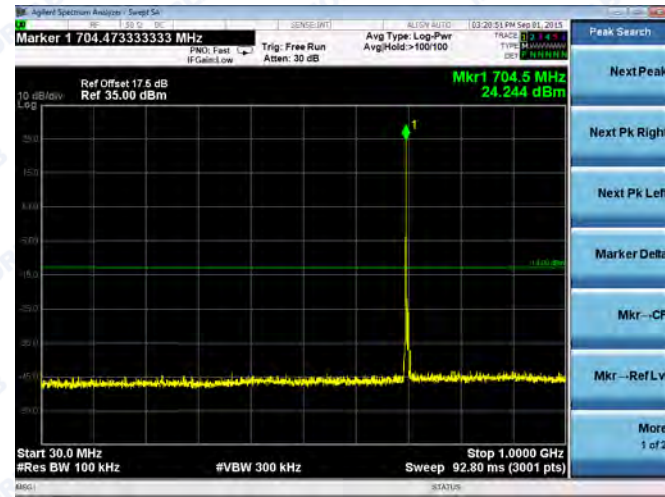




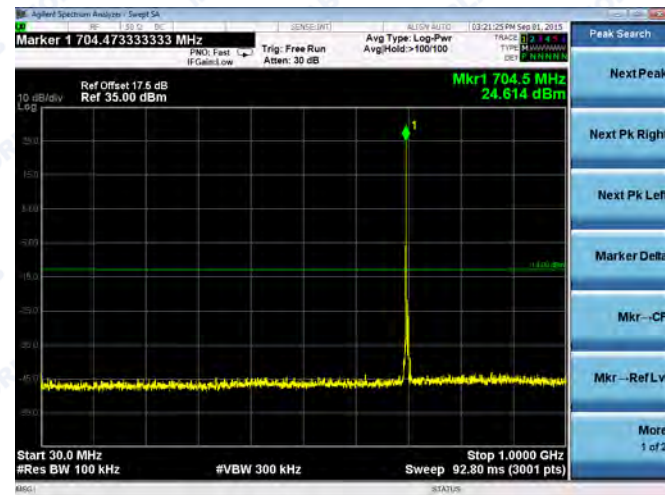
REPORT No.: SZ15080014W02

LTE Band 17 5MHz BW Low Channel

QPSK



16QAM

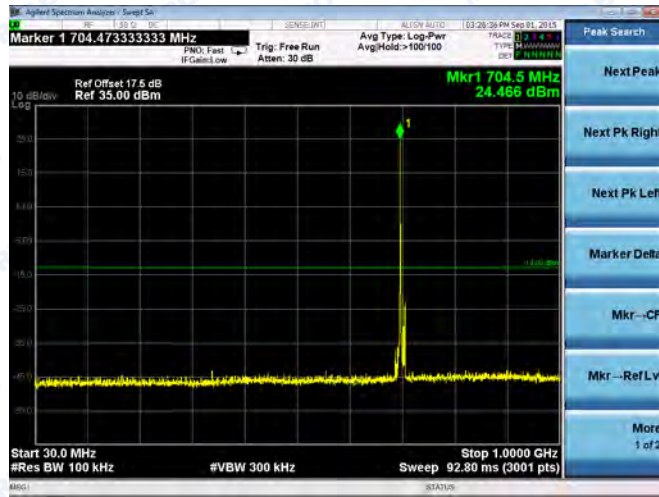




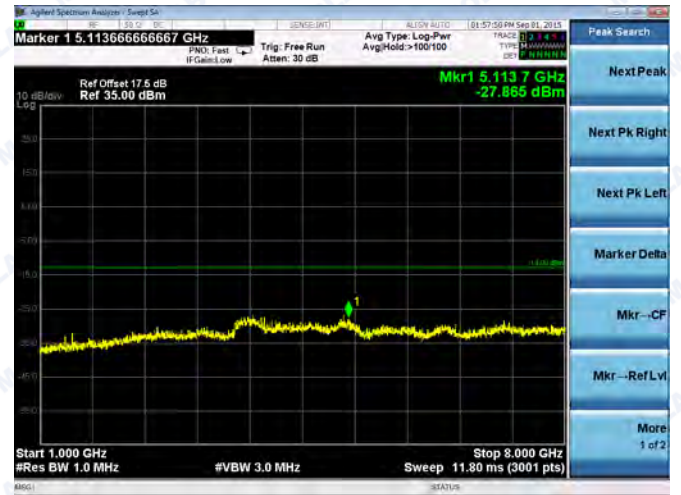
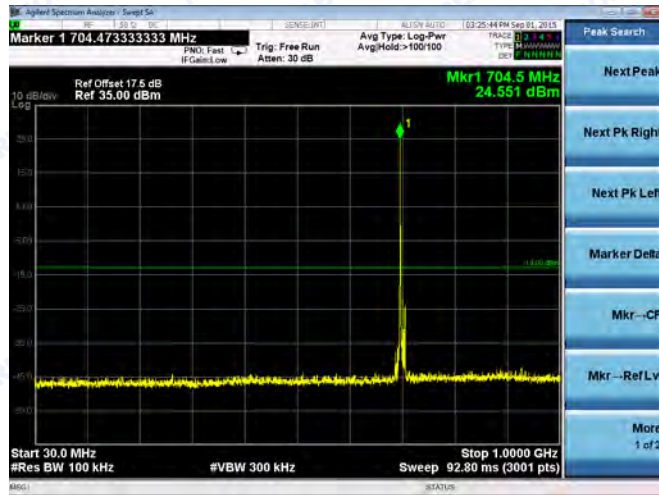
REPORT No.: SZ15080014W02

LTE Band 17 10MHz BW Low Channel

QPSK



16QAM

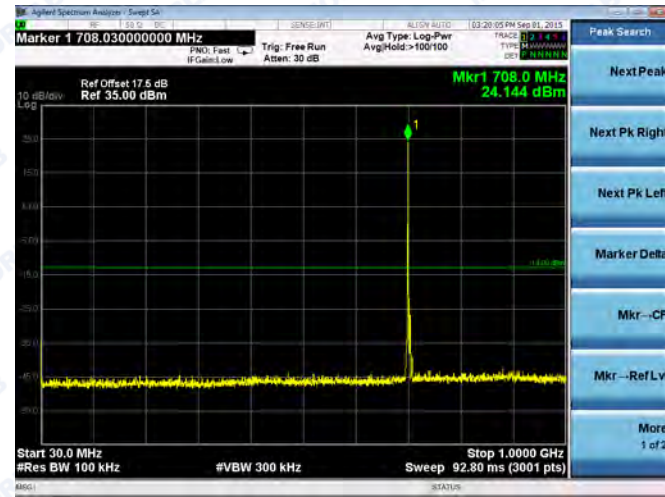




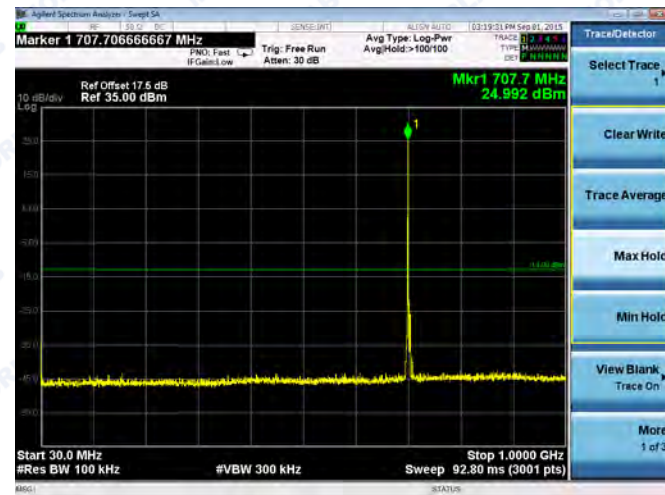
REPORT No.: SZ15080014W02

LTE Band 17 5MHz BW Mid Channel

QPSK



16QAM

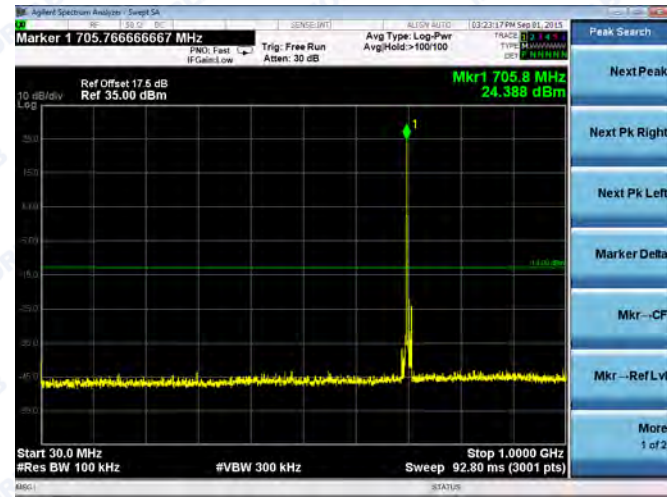




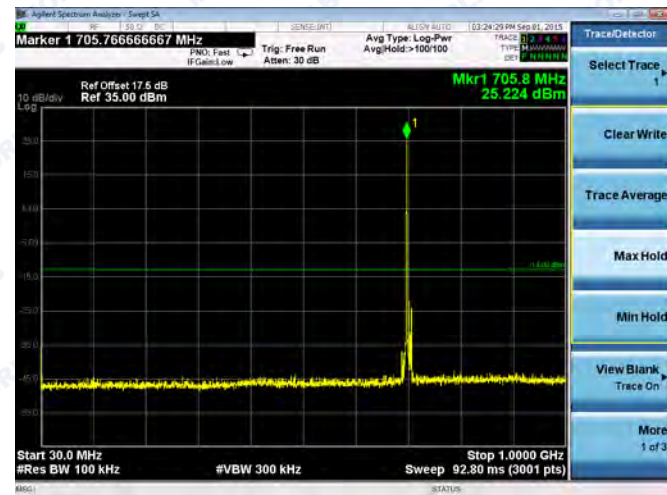
REPORT No.: SZ15080014W02

LTE Band 17 10MHz BW Mid Channel

QPSK



16QAM

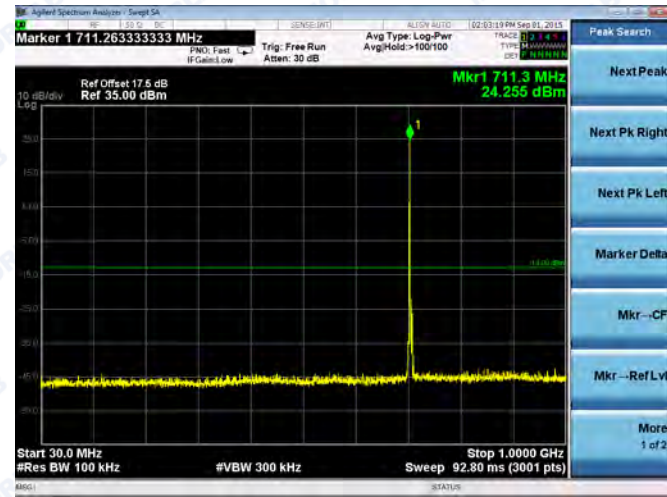




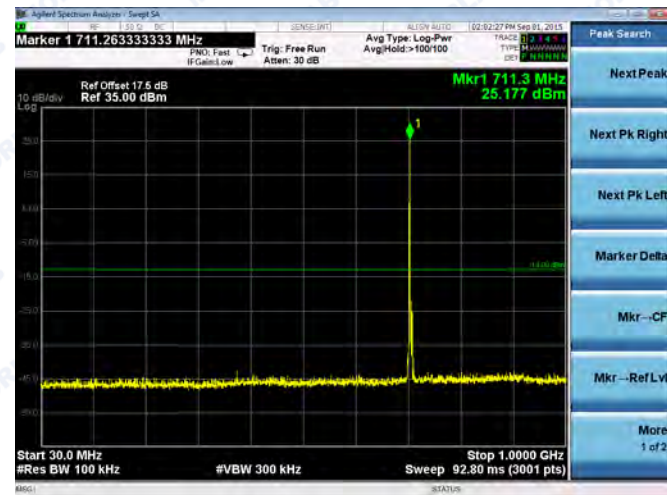
REPORT No.: SZ15080014W02

LTE Band 17 5MHz BW High Channel

QPSK



16QAM

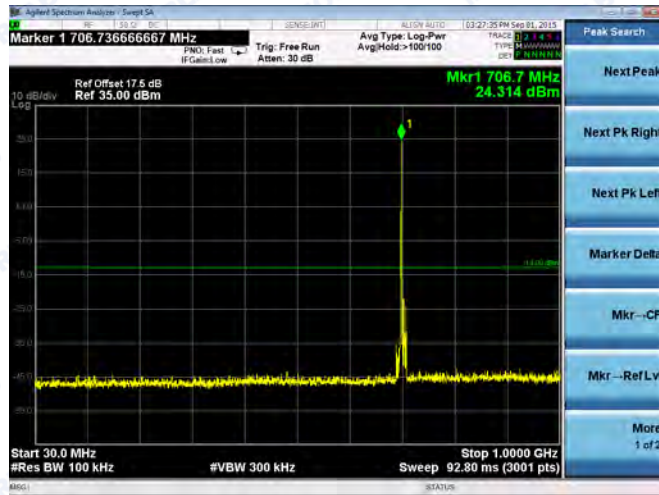




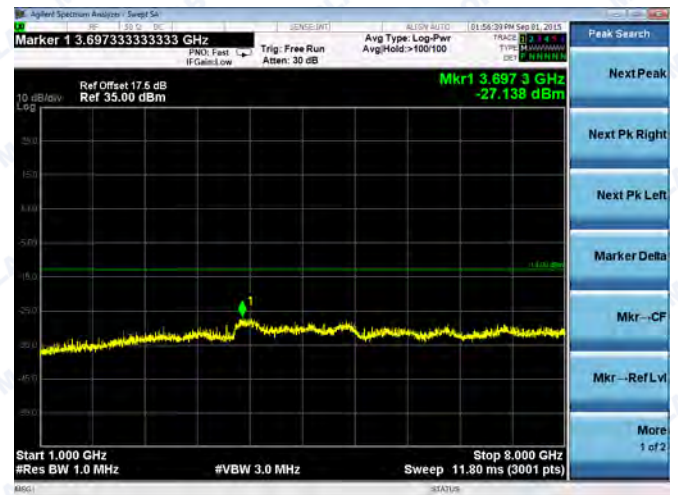
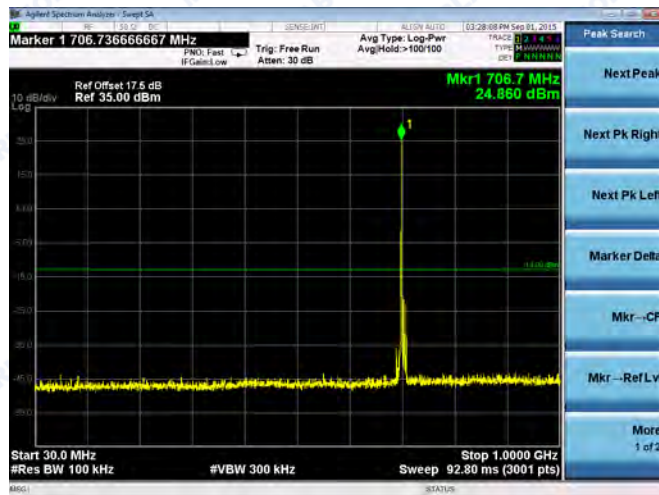
REPORT No.: SZ15080014W02

LTE Band 17 10MHz BW High Channel

QPSK



16QAM





2.6 Band Edge

2.6.1 Requirement

According to FCC section 27.53(g) (h), (g) For operations in the 698–746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

(h) For operations in the 1710–1755 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB.

According to FCC section 27.53(m) (4), (m) (4) For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees

2.6.2 Test Description

See section 2.1.2 of this report.

2.6.3 Test Result

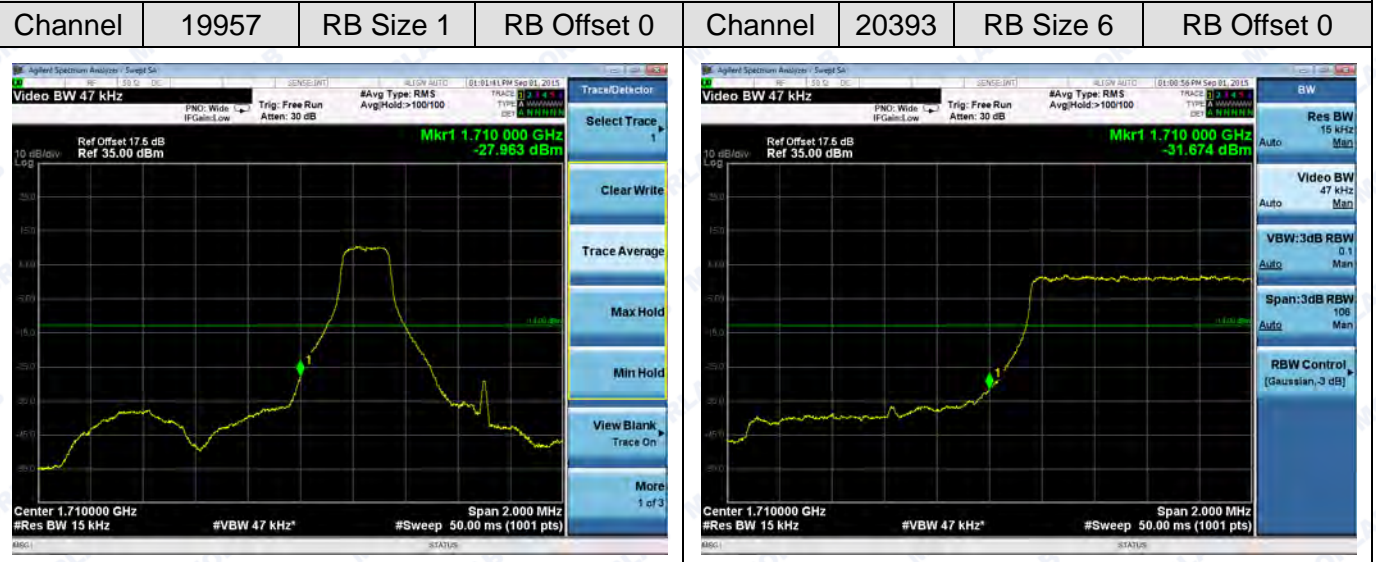
The center frequency of spectrum is the band edge frequency and span is 2MHz, Record the max trace into the test report.

PASS. See the attached plots.

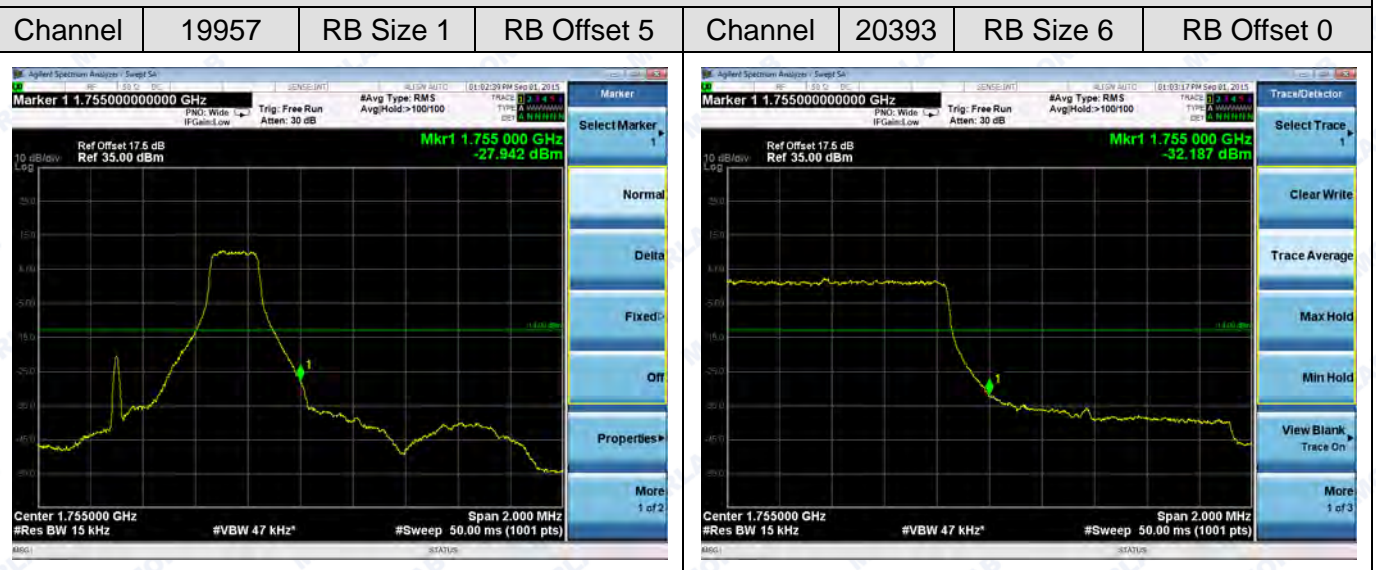


LTE Band 4

Channel Bandwidth: 1.4MHz



Channel Bandwidth: 1.4MHz





Channel Bandwidth: 3MHz

Agilent Spectrum Analyzer - Sweep 5a

Marker 1 1.710000000000 GHz

SENSE: dBm

ALPHA: AUTO

12:58:03 AM Sep 01, 2010

#Avg Type: RM5

Avg/Hold: >100/100

Trace 1 1.710000000000 GHz

PRN: Wide

IF Gain: Low

Trig: Free Run

Att: 30 dB

Ref Offset: 17.5 dB

Ref: 35.00 dBm

Mkr1 1.710 000 GHz

-30.373 dBm

10 dB/div

Log

Center 1.710000 GHz

#VBW 91 kHz*

#Sweep 50.00 ms (1001 pts)

Span 2.000 MHz

#Res BW 30 kHz

Trace/Selector

Select Trace 1

Clear Write

Trace Average

Max Hold

Min Hold

View Blank Trace On

More 1 of 3

MMG: STATUS

Agilent Spectrum Analyzer / Swept SA

Center Freq 1.75500000 GHz

Ref Offset 17.5 dB
Ref 35.00 dBm

Mkr1 1.755 000 GHz
-30.546 dBm

Center 1.755000 GHz
#Res BW 30 kHz
#VBW 91 kHz*
Span 2.000 MHz
Sweep 50.00 ms (1001 pts)

Frequency

Auto Tune

Center Freq
1.75500000 GHz

Start Freq
1.75400000 GHz

Stop Freq
1.75600000 GHz

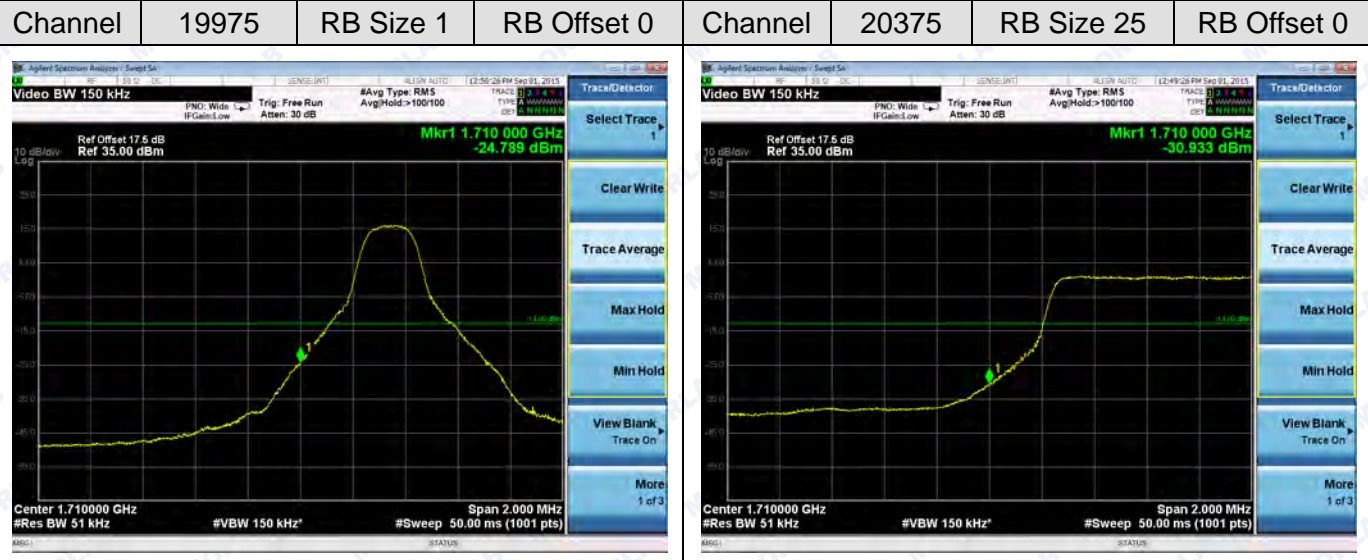
CF Step
200.000 kHz
Man

Freq Offset
0 Hz

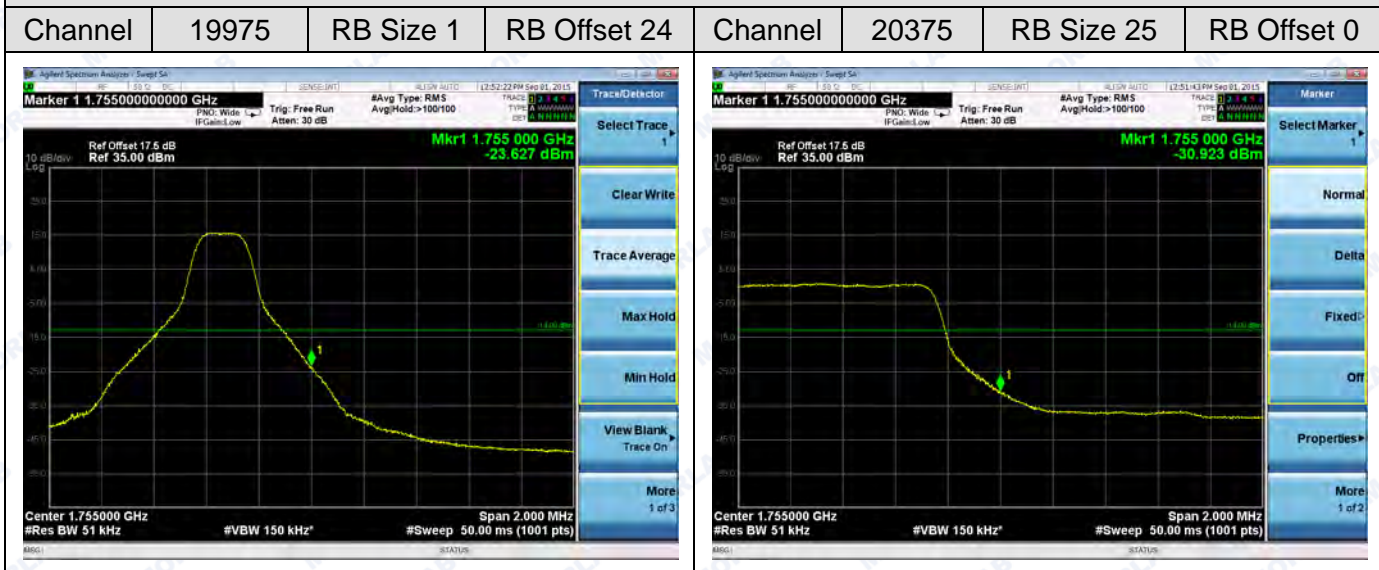


LTE Band 4

Channel Bandwidth: 5MHz



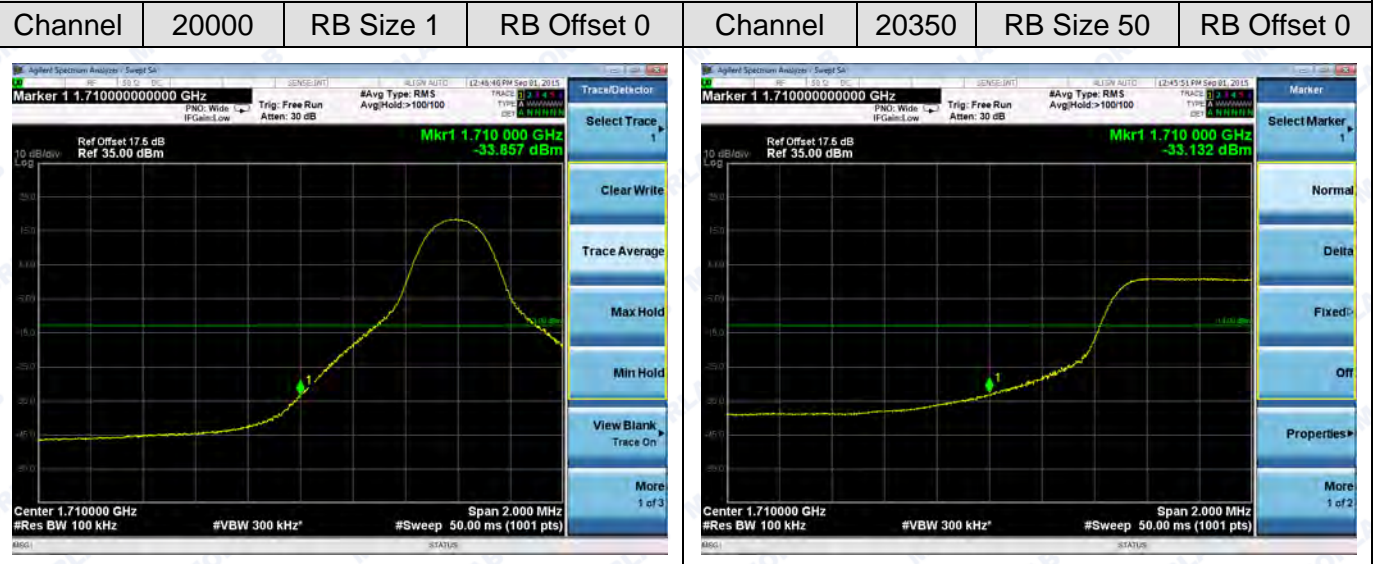
Channel Bandwidth: 5MHz



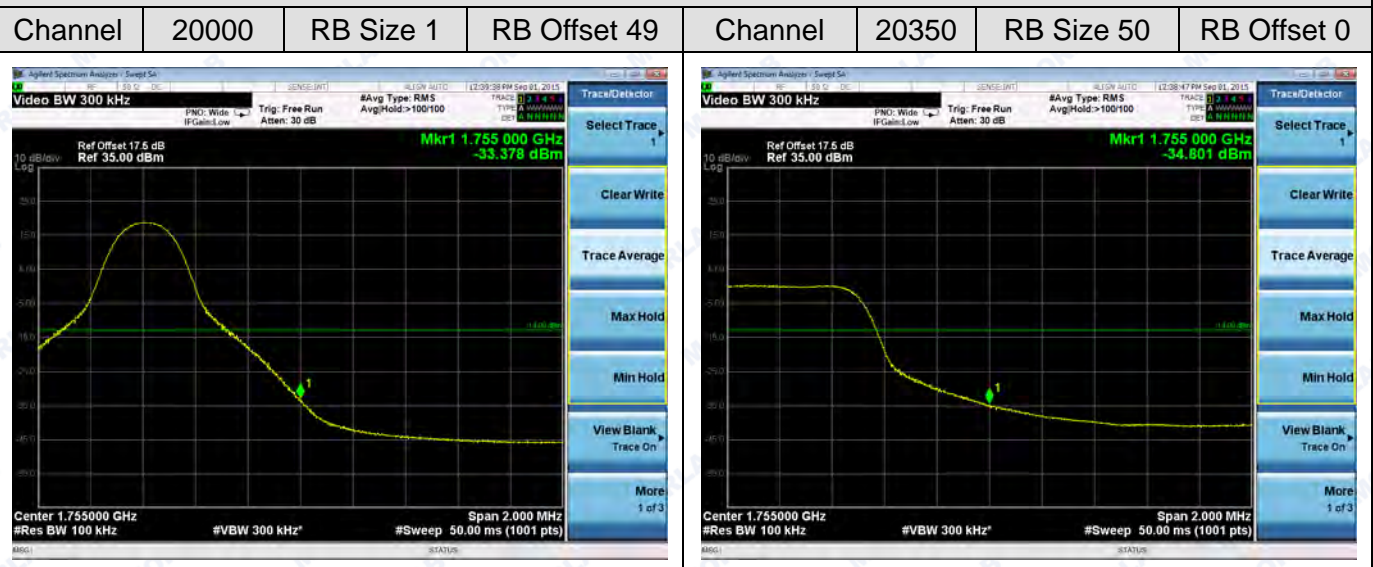


LTE Band 4

Channel Bandwidth: 10MHz



Channel Bandwidth: 10MHz

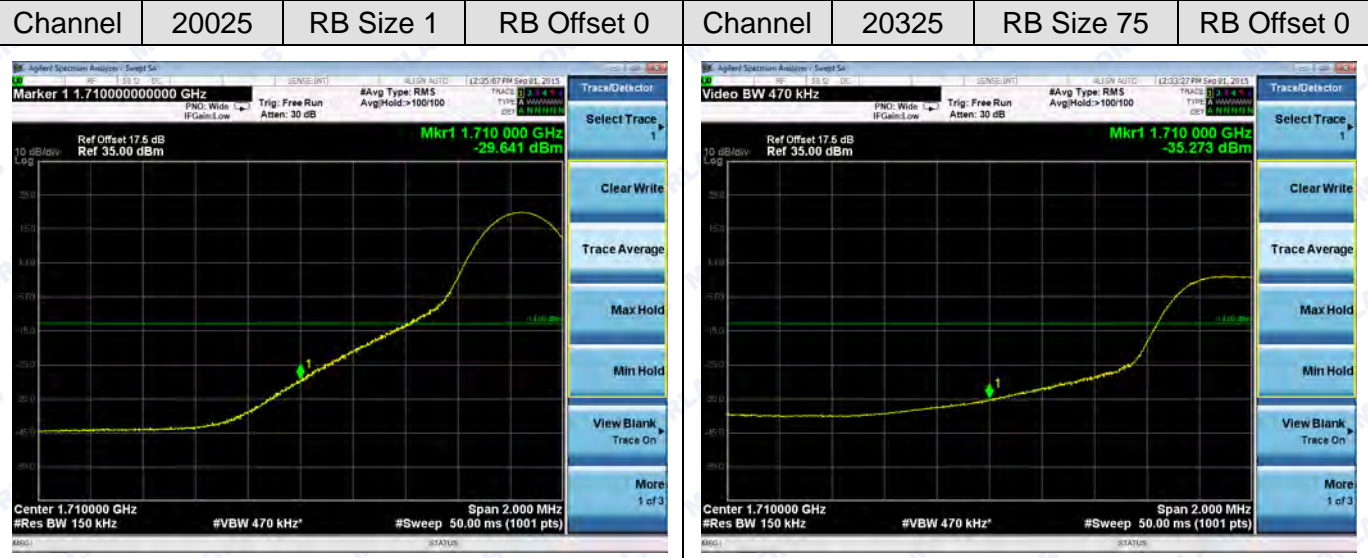




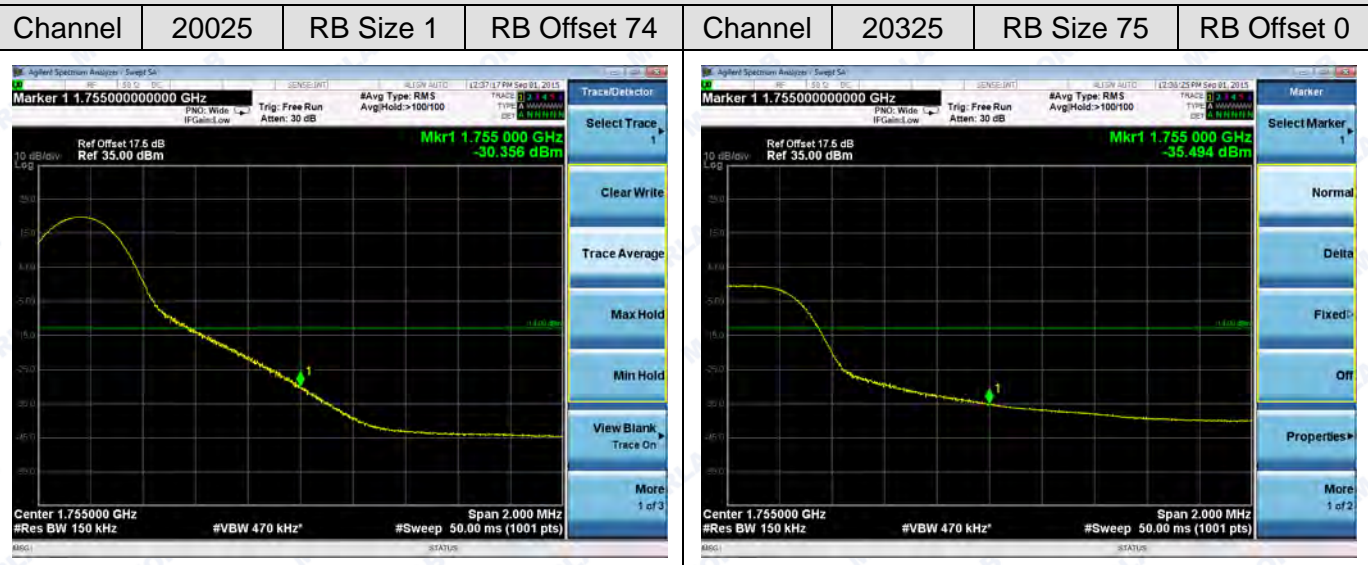
REPORT No.: SZ15080014W02

LTE Band 4

Channel Bandwidth: 15MHz



Channel Bandwidth: 15MHz

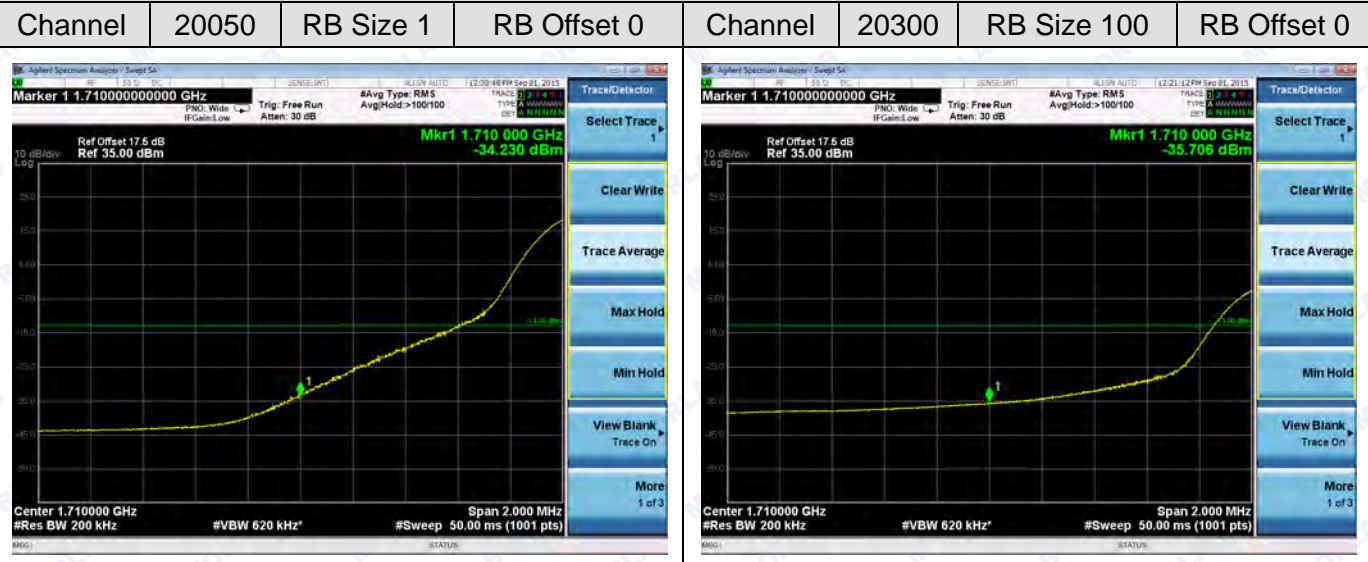




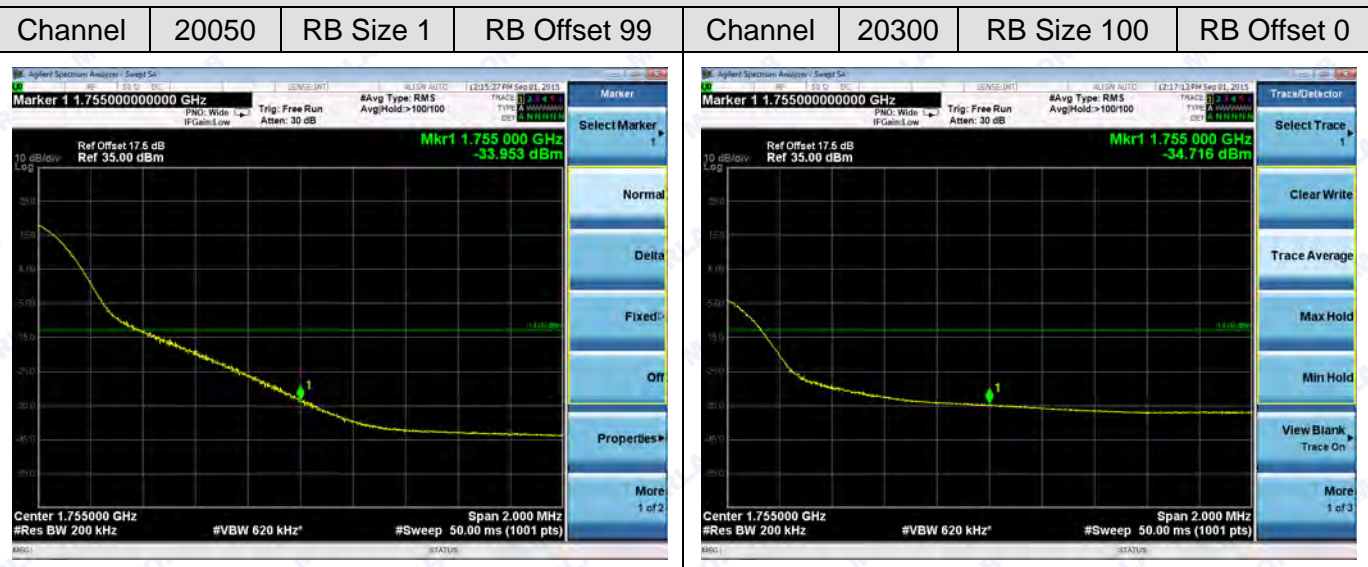
REPORT No.: SZ15080014W02

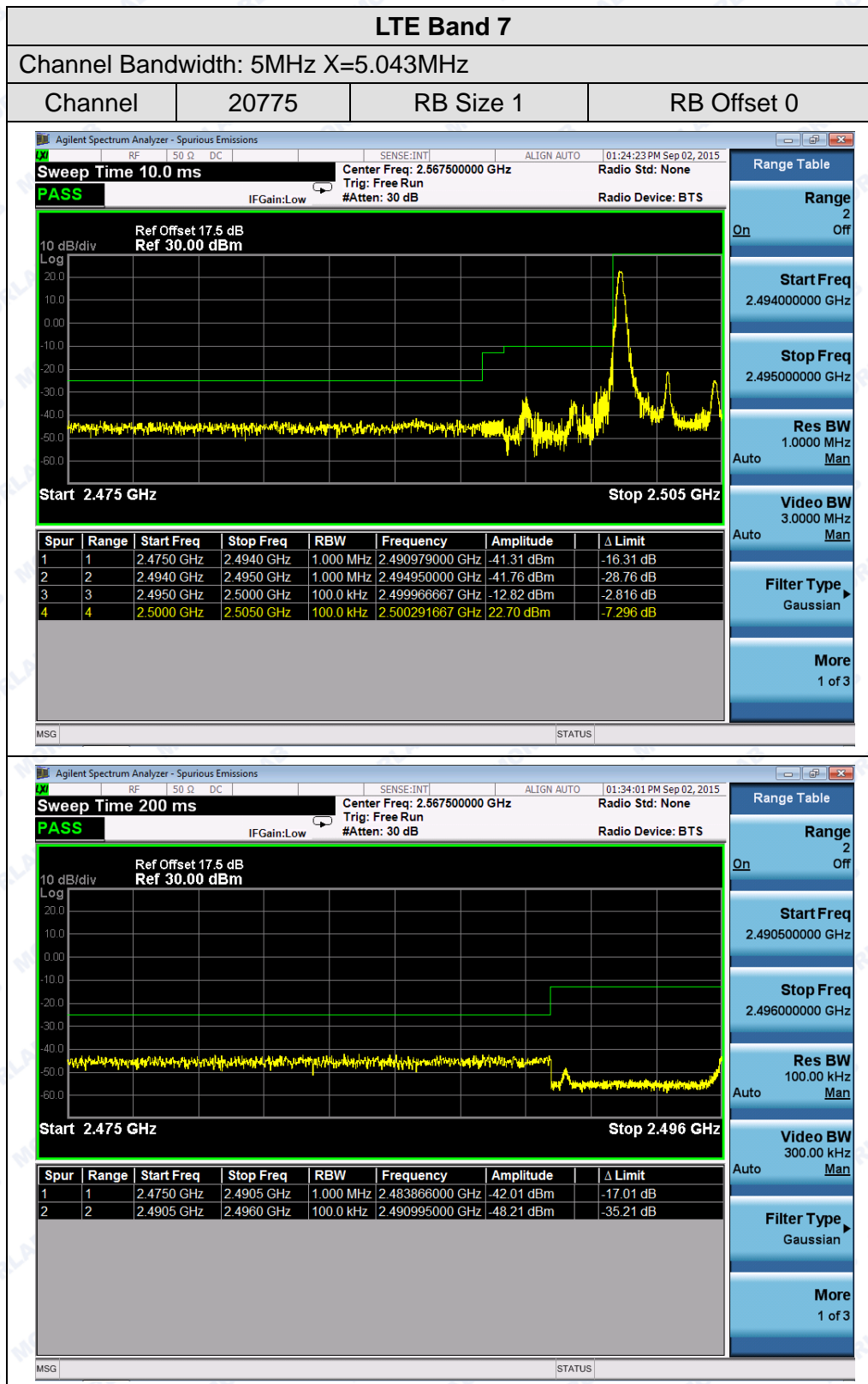
LTE Band 4

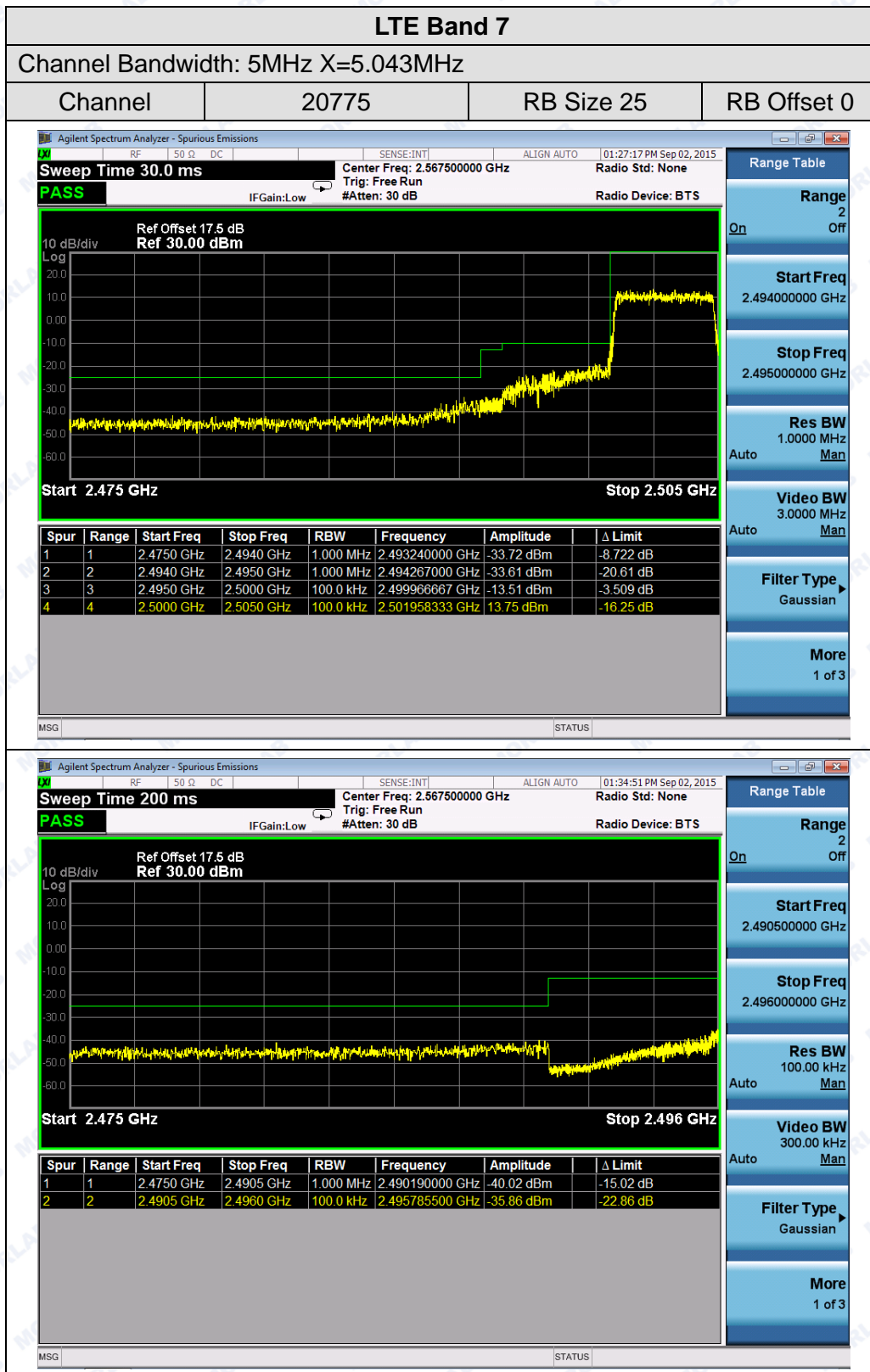
Channel Bandwidth: 20MHz



Channel Bandwidth: 20MHz









REPORT No.: SZ15080014W02

LTE Band 7

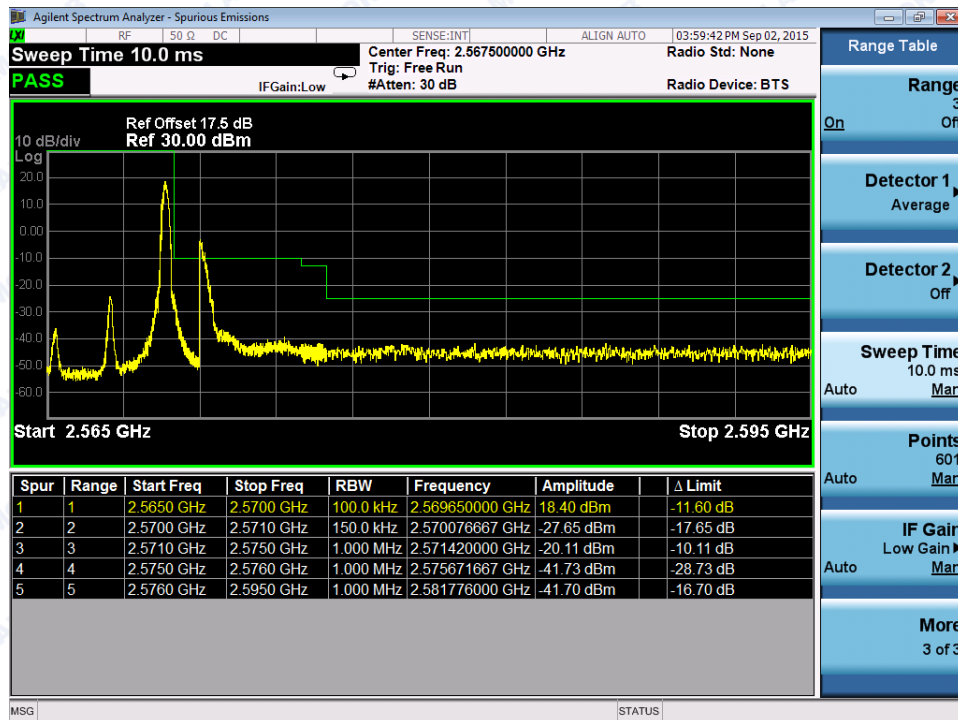
Channel Bandwidth: 5MHz X=5.019MHz

Channel

21425

RB Size 1

RB Offset 24

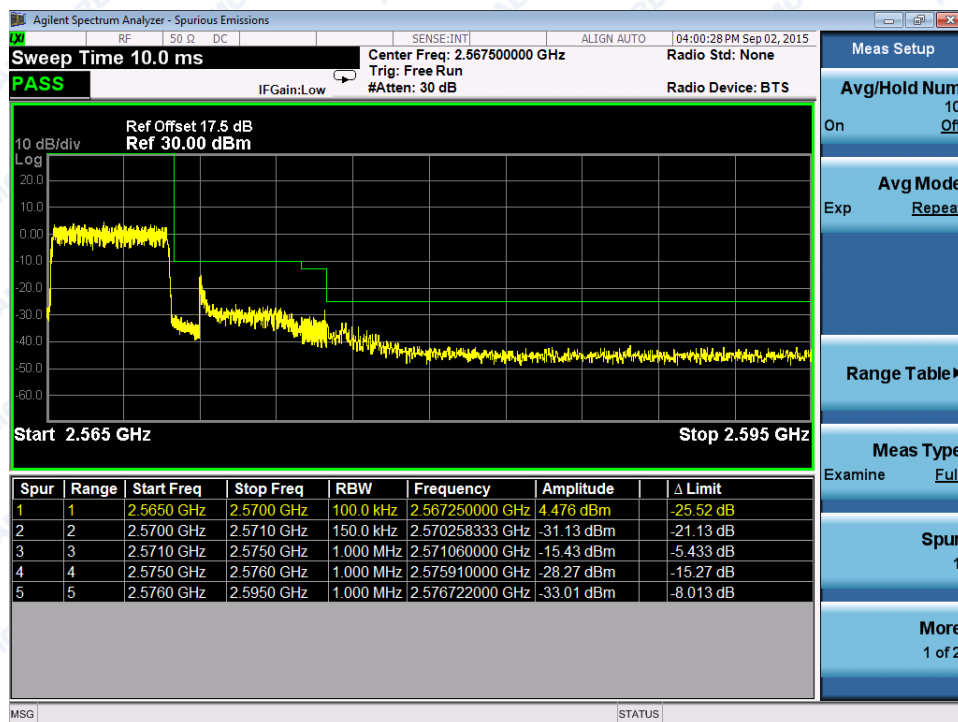


Channel

21425

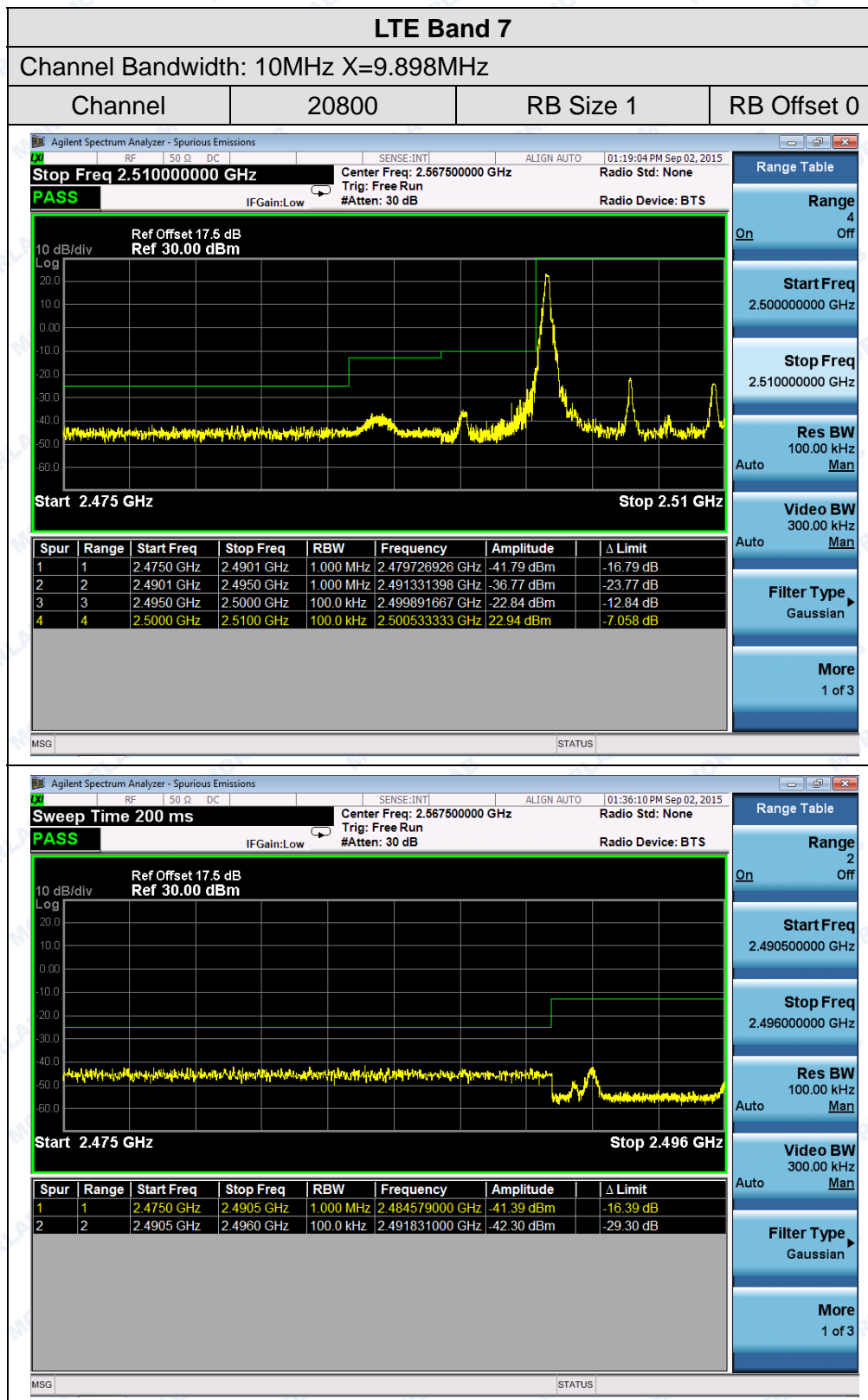
RB Size 25

RB Offset 0



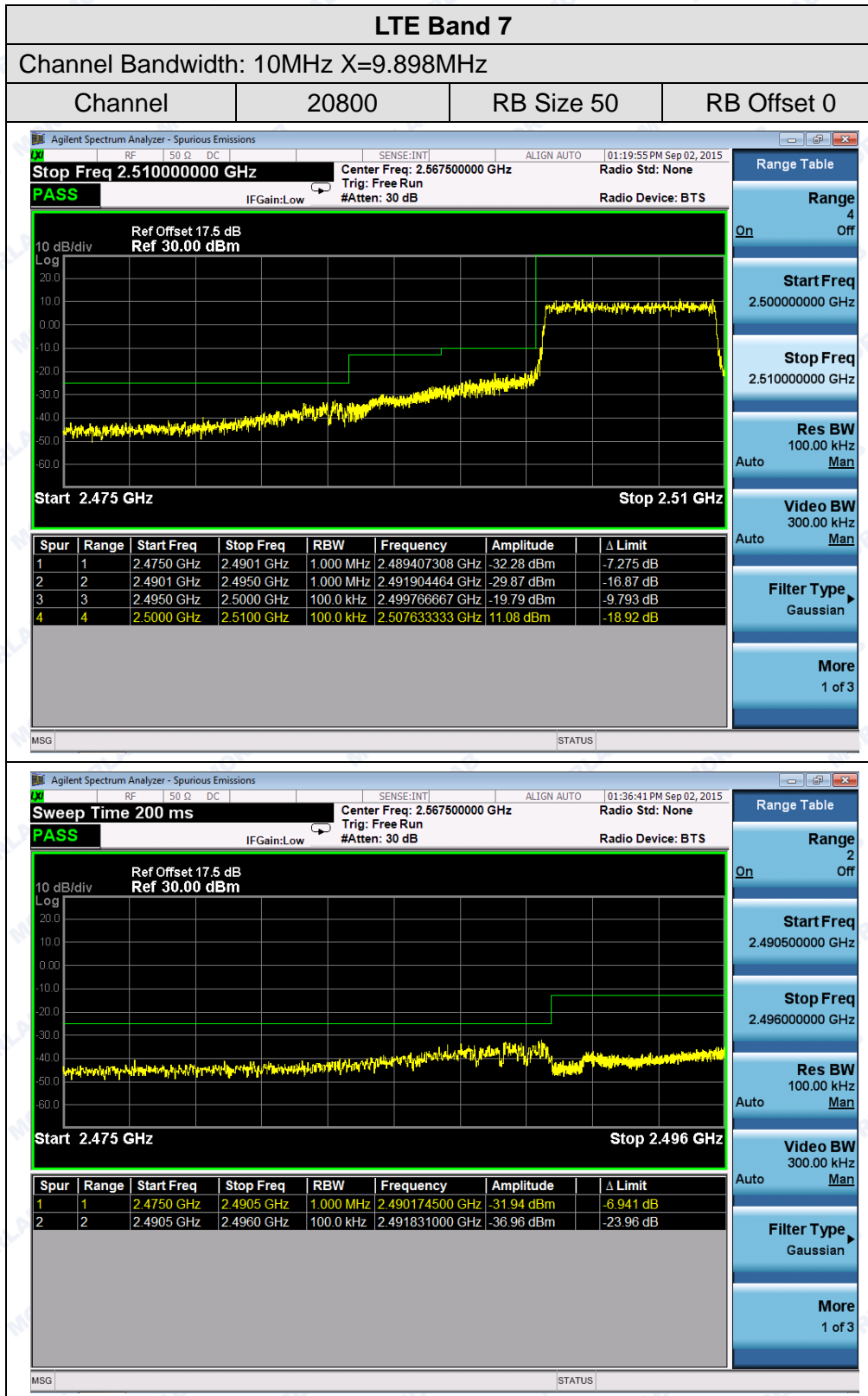


REPORT No.: SZ15080014W02



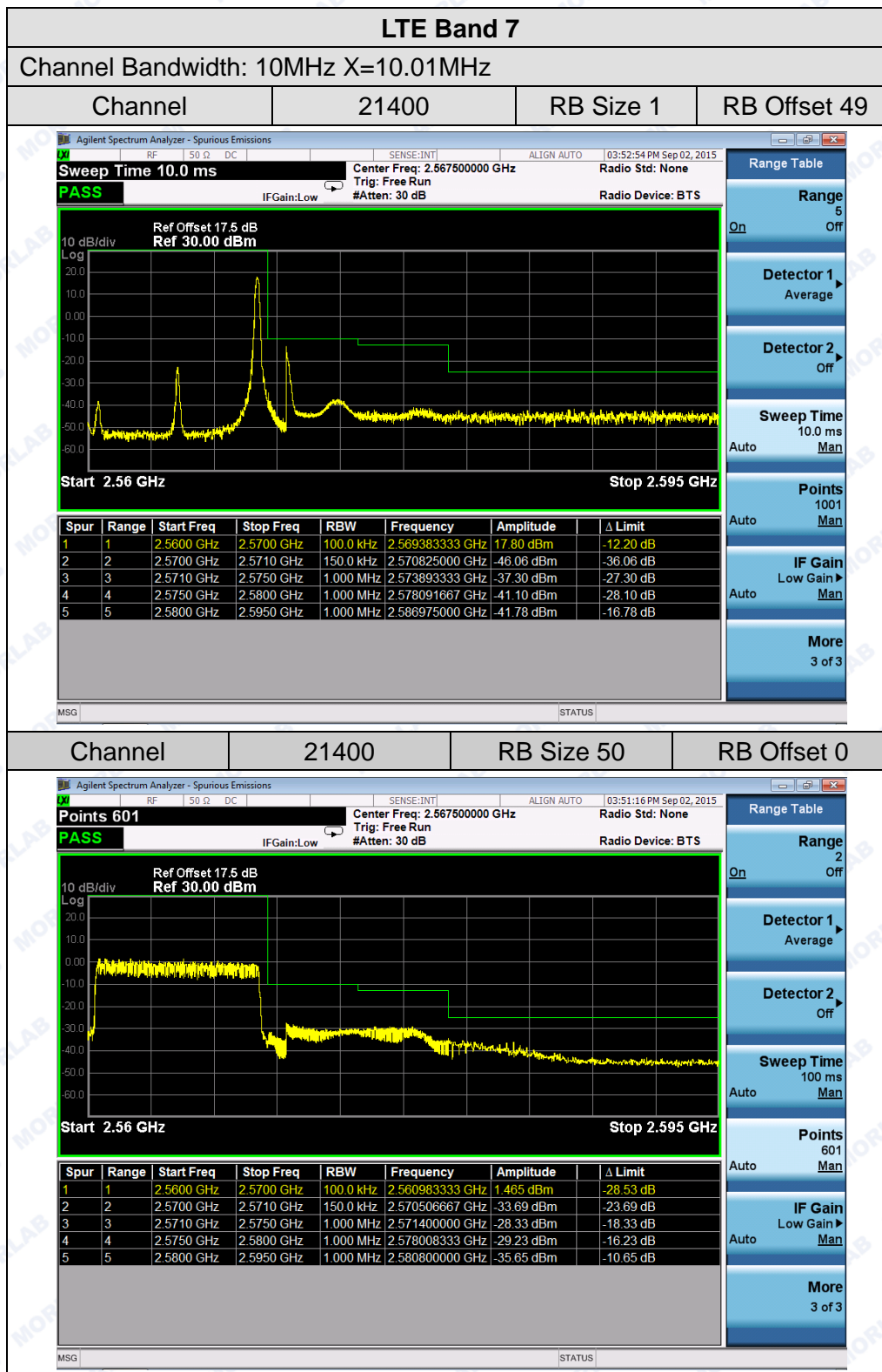


REPORT No.: SZ15080014W02



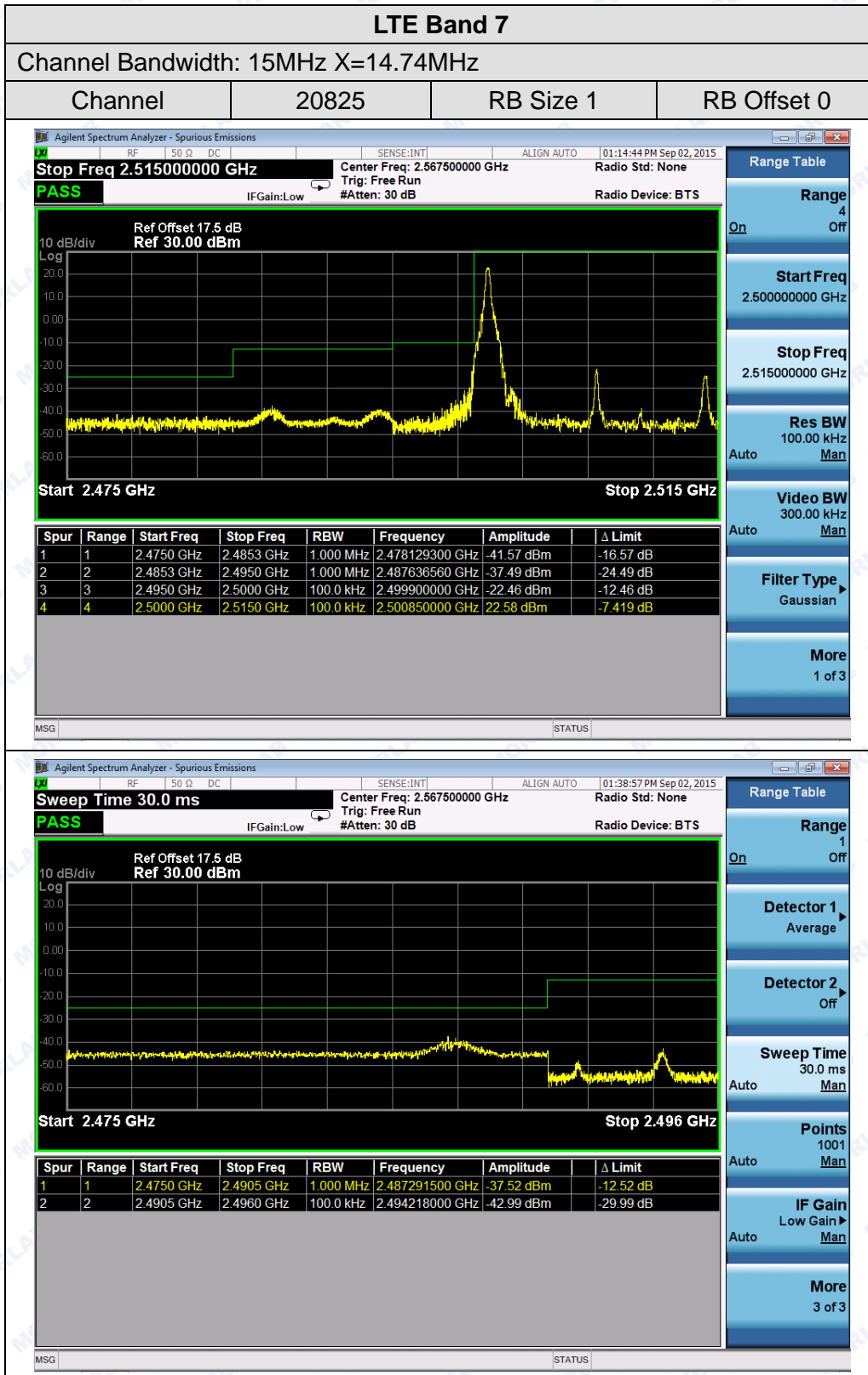


REPORT No.: SZ15080014W02



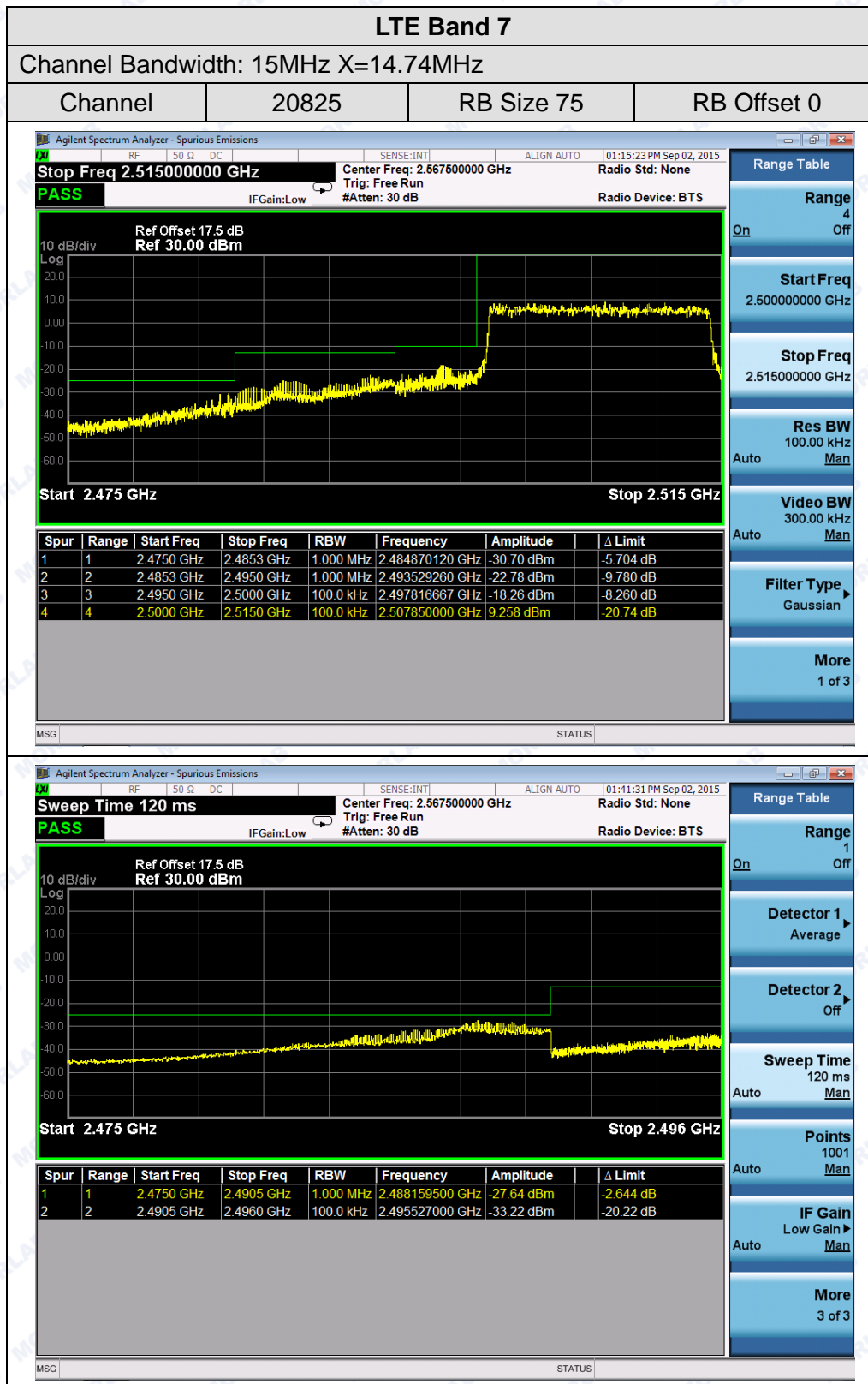


REPORT No.: SZ15080014W02





REPORT No.: SZ15080014W02





REPORT No.: SZ15080014W02

LTE Band 7

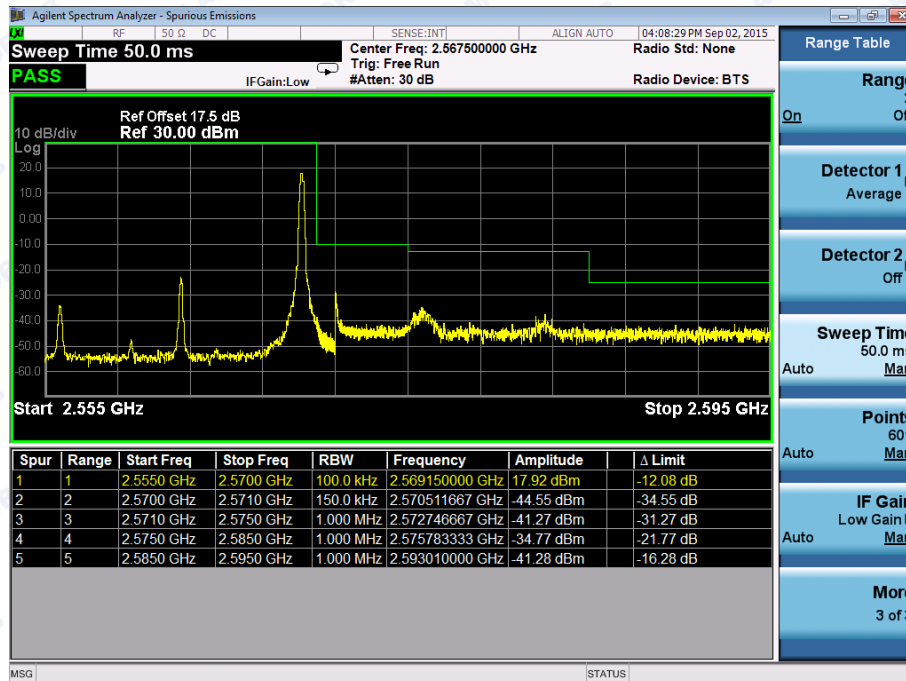
Channel Bandwidth: 15MHz X=14.84MHz

Channel

21375

RB Size 1

RB Offset 74

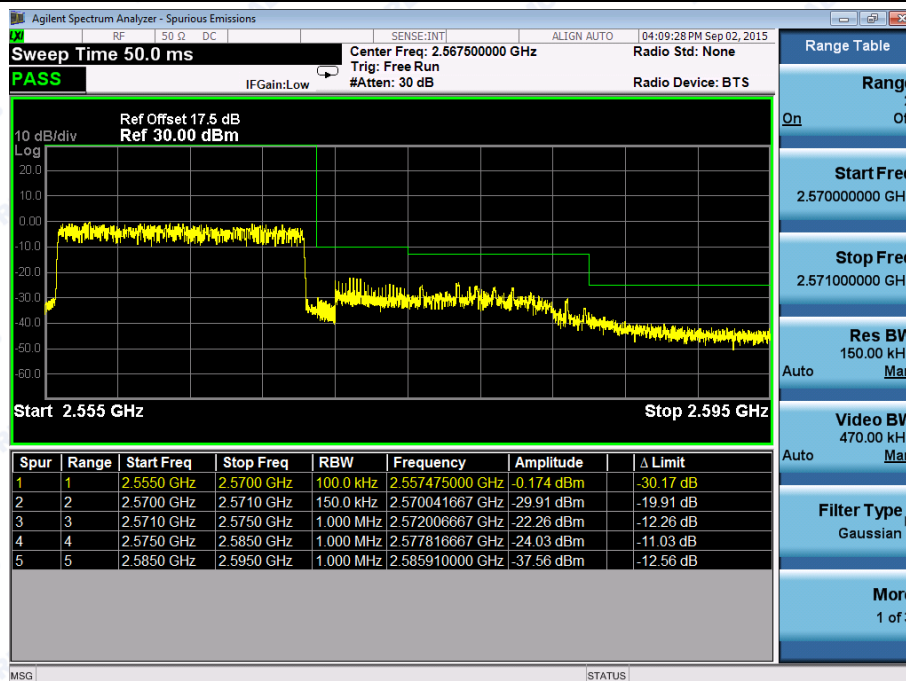


Channel

21375

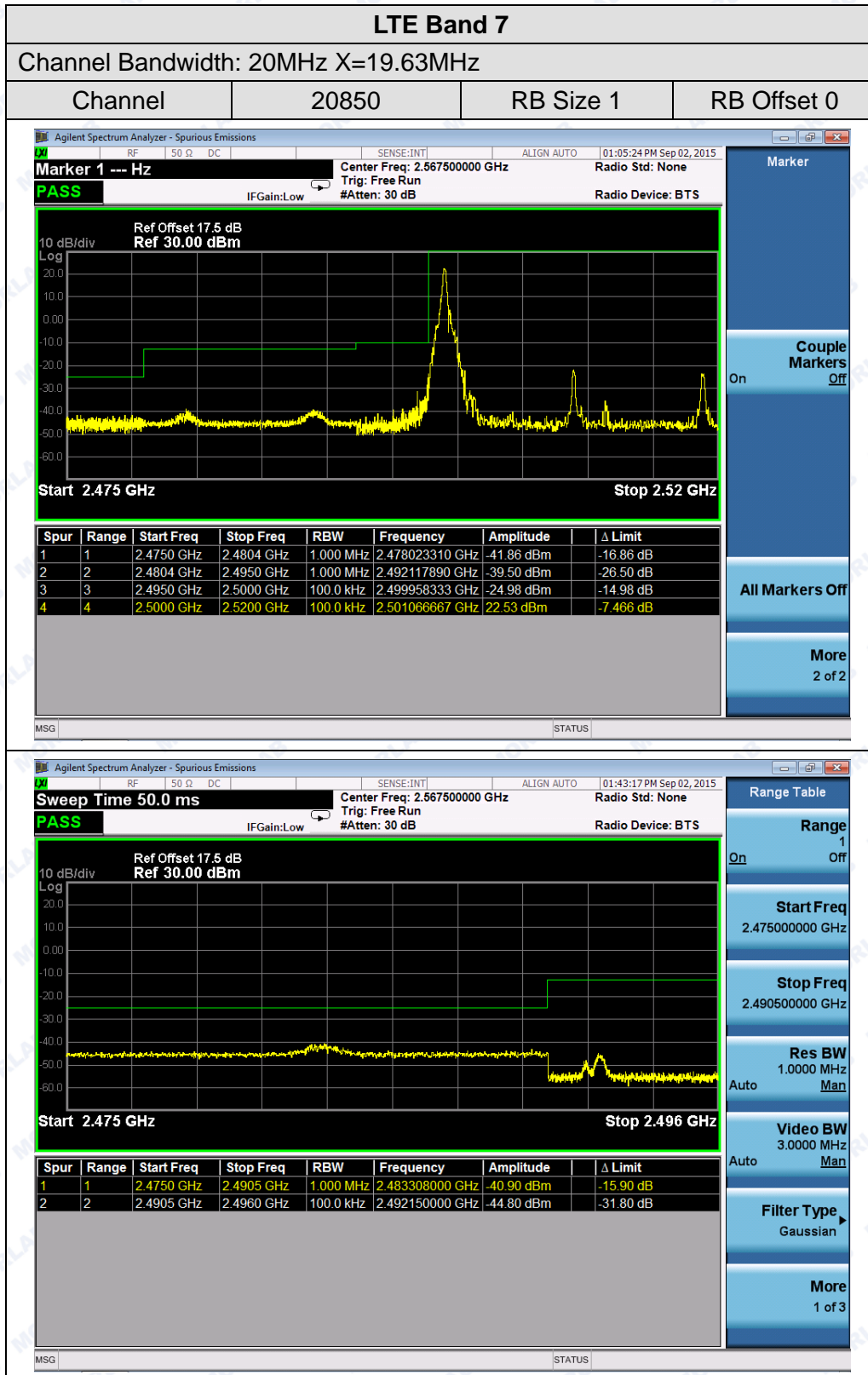
RB Size 75

RB Offset 0



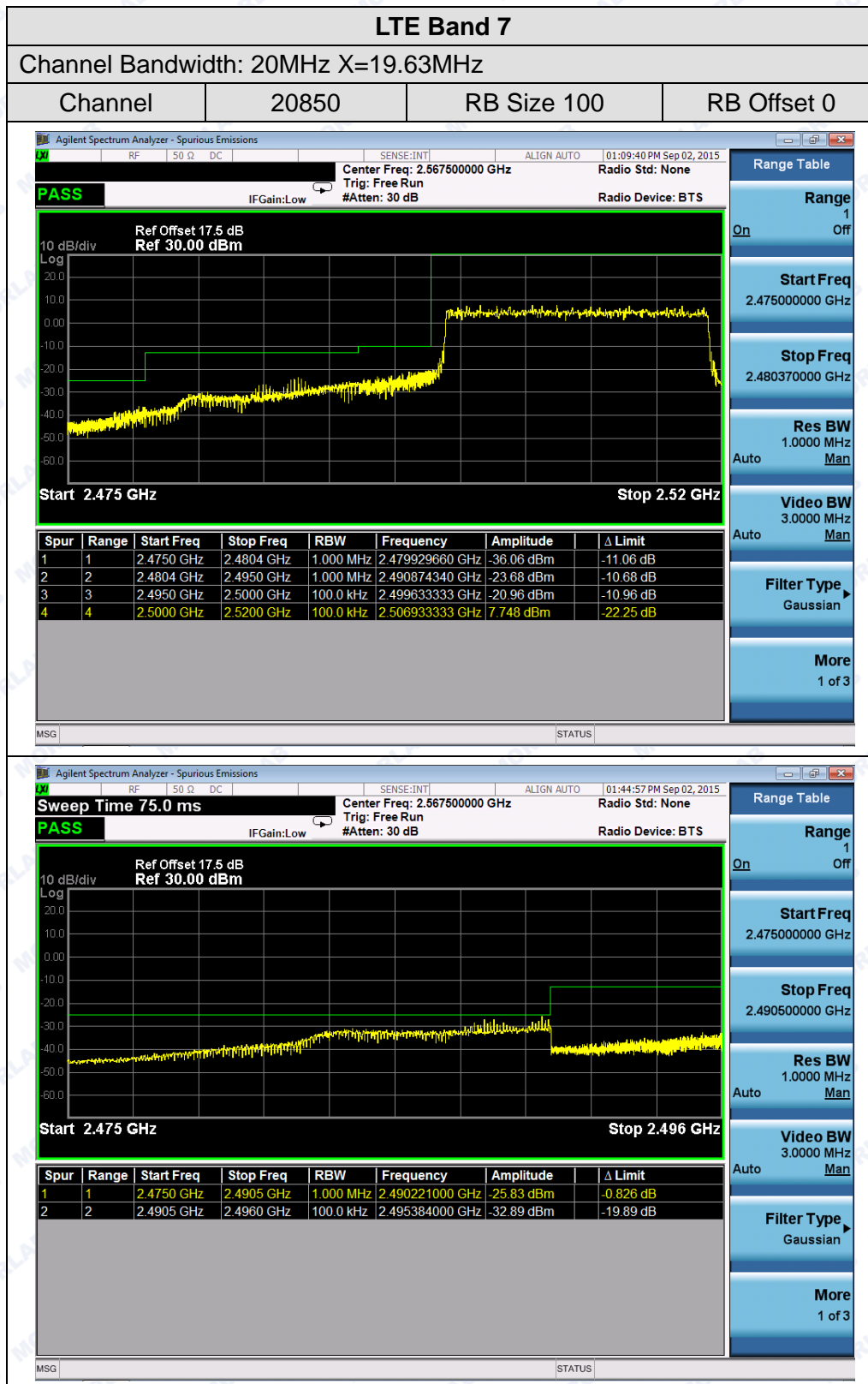


REPORT No.: SZ15080014W02





REPORT No.: SZ15080014W02





REPORT No.: SZ15080014W02

LTE Band 7

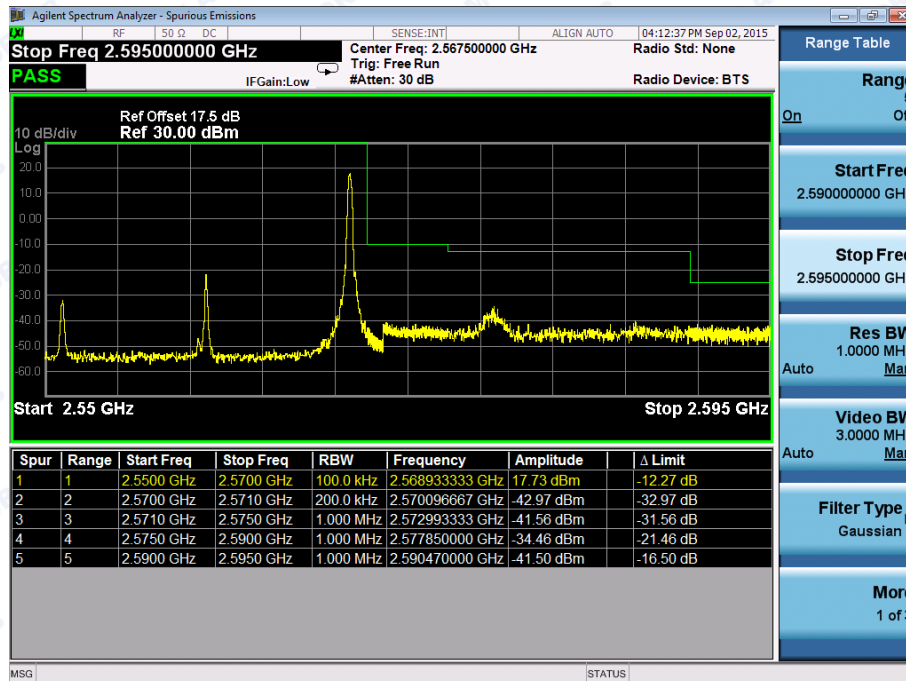
Channel Bandwidth: 20MHz X=19.71MHz

Channel

21350

RB Size 1

RB Offset 99

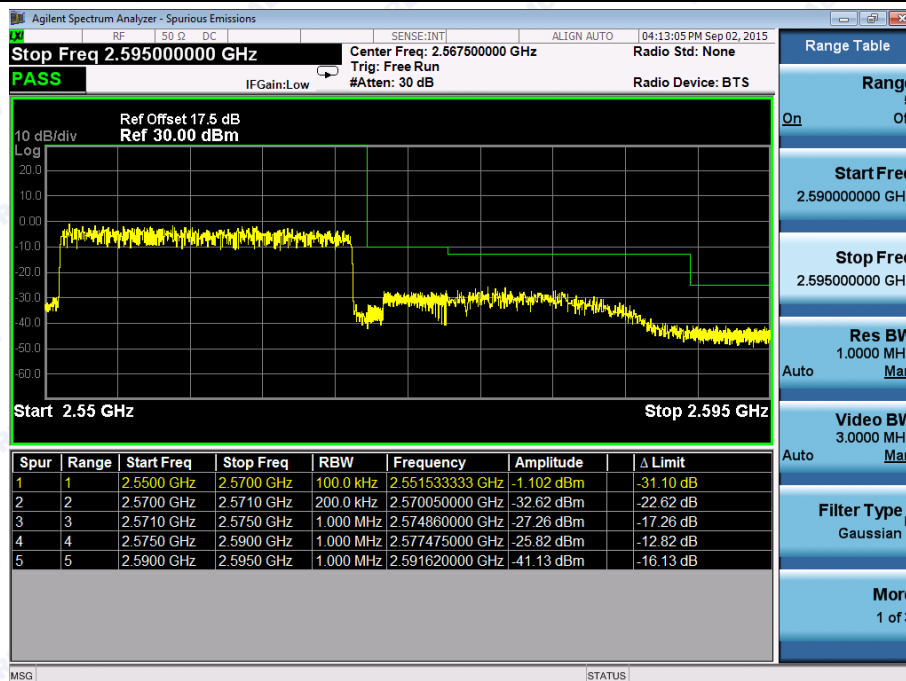


Channel

21350

RB Size 100

RB Offset 0



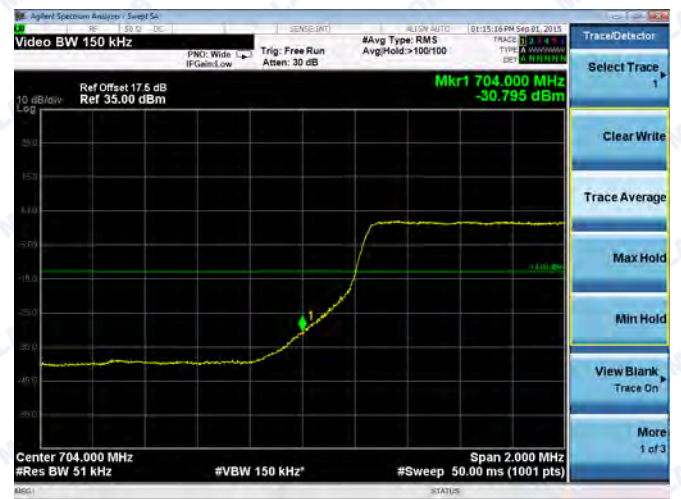
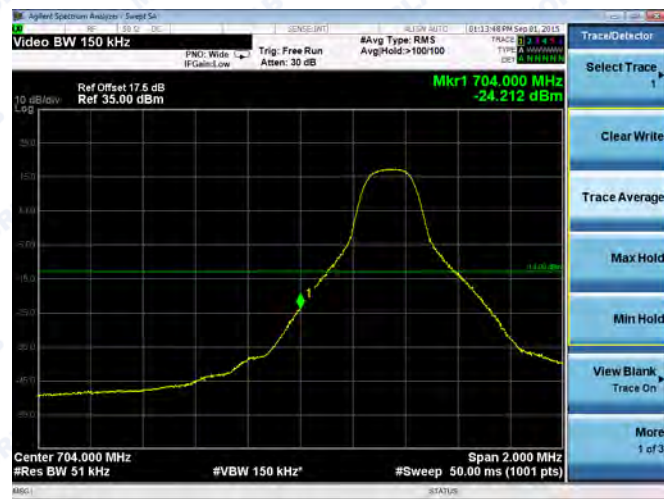


REPORT No.: SZ15080014W02

LTE Band 17

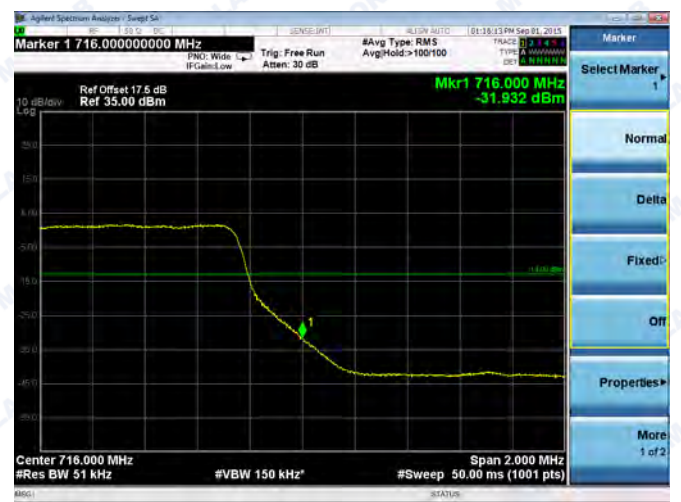
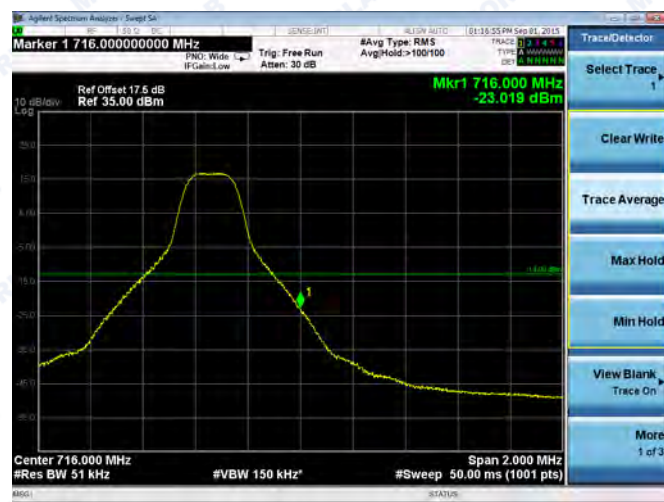
Channel Bandwidth: 5MHz

Channel	23755	RB Size 1	RB Offset 0	Channel	23755	RB Size 25	RB Offset 0
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Channel Bandwidth: 5MHz

Channel	23825	RB Size 1	RB Offset 24	Channel	23825	RB Size 25	RB Offset 0
---------	-------	-----------	--------------	---------	-------	------------	-------------



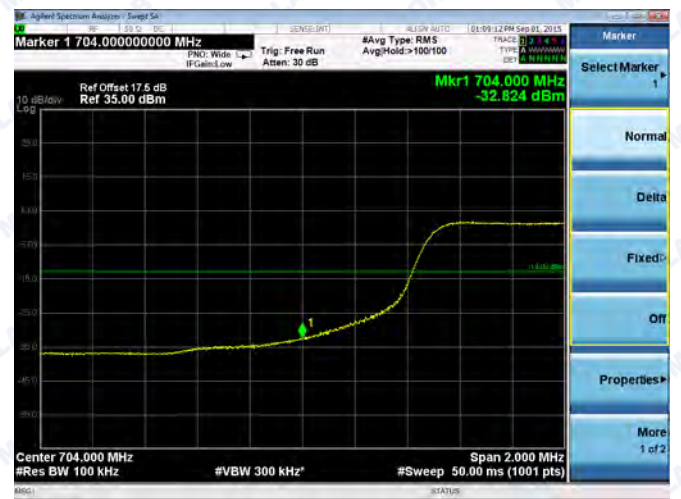


REPORT No.: SZ15080014W02

LTE Band 17

Channel Bandwidth: 10MHz

Channel	23780	RB Size 1	RB Offset 0	Channel	23780	RB Size 50	RB Offset 0
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Channel Bandwidth: 10MHz

Channel	23800	RB Size 1	RB Offset 49	Channel	23800	RB Size 50	RB Offset 0
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2.7 Transmitter Radiated Power (EIRP/ERP)

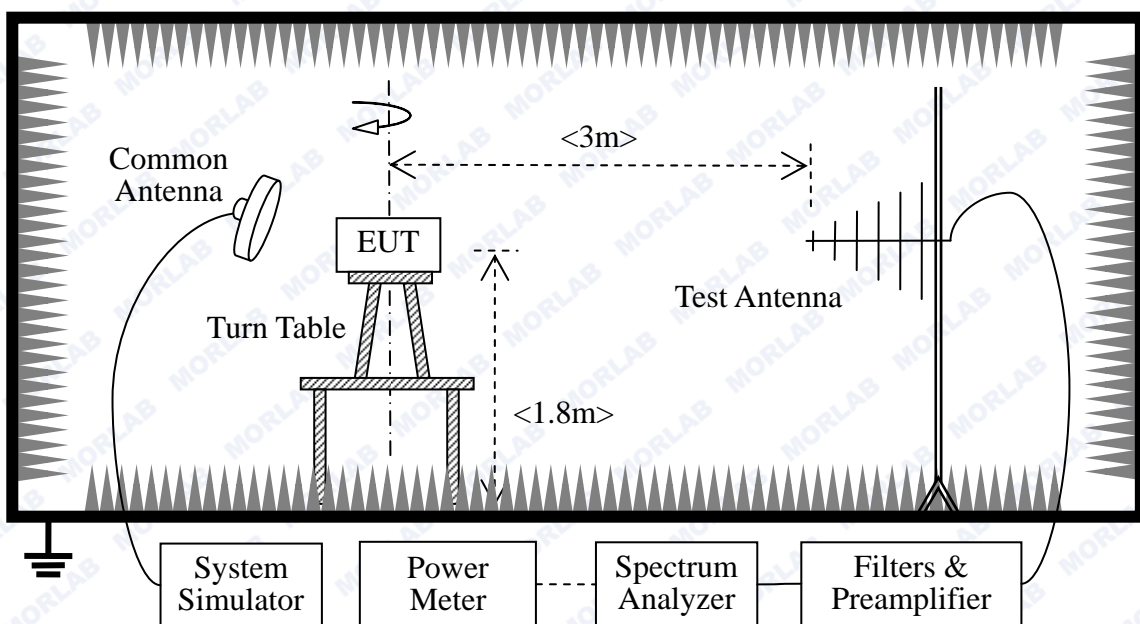
2.7.1 Requirement

According to FCC section 27.50 (d), fixed, mobile and portable (hand-held) stations in the 1710-1755MHz band are limited to 1wat EIRP.

Portable stations (hand-held devices) operating in the 704-716MHz band are limited to 3watts ERP.

2.7.2 Test Description

Test Setup:



The EUT, which is powered by the PC, is located in a 3m Full-Anechoic Chamber; the cable loss, air loss and so on of the site as factors are pre-calibrated using the "Substitution" method, and calculated to correct the reading.

A call is established between the EUT and the SS via a Common Antenna. The EUT is commanded by the SS to operate at the maximum and minimum output power, and only the test result of the maximum output power was recorded.

The Test Antenna is a Bi-Log one (used for 30MHz to 1GHz) or a Horn one (used for above 3GHz), and it's located at the same height as the EUT. The Filters consists of Notch Filters and High Pass Filter.



Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
System Simulator	Rohde& Schwarz	CMW500	1201.0002k50/ 124534/wk	2015.02.26	2016.02.25
Spectrum Analyzer	Rohde& Schwarz	FSL	10246	2015.02.26	2016.02.25
Spectrum Analyzer	Agilent	E4445A	MY44200685	2015.02.26	2016.02.25
Full-Anechoic Chamber	Albatross	9m*6m*6m	(n.a.)	2015.02.26	2016.02.25
Test Antenna - Bi-Log	Schwarzbeck	VULB 9163	9163-274	2015.02.26	2016.02.25
Test Antenna - Horn	Schwarzbeck	BBHA 9120C	9120C-384	2015.02.26	2016.02.25

2.7.3 Test Result

The EUT was verified under all configurations (RB size and offset) and the worst case radiated power reported for each modulation/channel bandwidth.

The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. The lowest, middle and highest channels are tested.

The substitution corrections are obtained as described below:

$$A_{\text{SUBST}} = P_{\text{SUBST_TX}} - P_{\text{SUBST_RX}} - L_{\text{SUBST_CABLES}} + G_{\text{SUBST_TX_ANT}}$$

$$A_{\text{TOT}} = L_{\text{CABLES}} + A_{\text{SUBST}}$$

Where A_{SUBST} is the final substitution correction including receive antenna gain.

$P_{\text{SUBST_TX}}$ is signal generator level,

$P_{\text{SUBST_RX}}$ is receiver level,

$L_{\text{SUBST_CABLES}}$ is cable losses including TX cable,

$G_{\text{SUBST_TX_ANT}}$ is substitution antenna gain.

A_{TOT} is total correction factor including cable loss and substitution correction

During the test, the data of A_{TOT} was added in the Test Spectrum Analyze, so Spectrum Analyze reading is the final values which contain the data of A_{TOT} .



REPORT No.: SZ15080014W02

Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		EIRP (dBm)
					RB Size	RB Offset	
LTE Band 4	20MHz	L 20050	1720.0	QPSK	1	0	23.44
					100	0	22.15
				16-QAM	1	0	22.18
					100	0	21.34
		M 20175	1732.5	QPSK	1	0	23.31
					100	0	22.54
				16-QAM	1	0	22.45
					100	0	21.19
		H 20300	1745.0	QPSK	1	0	23.21
					100	0	22.47
				16-QAM	1	0	22.52
					100	0	21.41
Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		EIRP (dBm)
					RB Size	RB Offset	
LTE Band 4	15MHz	L 20025	1717.5	QPSK	1	0	23.45
					75	0	22.39
				16-QAM	1	0	22.80
					75	0	21.47
		M 20175	1732.5	QPSK	1	0	23.33
					75	0	22.52
				16-QAM	1	0	22.98
					75	0	21.44
		H 20325	1747.5	QPSK	1	0	23.32
					75	0	22.37
				16-QAM	1	0	22.54
					75	0	21.11
Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		EIRP (dBm)
					RB Size	RB Offset	
LTE Band 4	10MHz	L 20000	1715.0	QPSK	1	0	23.25
					50	0	22.21
				16-QAM	1	0	22.54
					50	0	21.16
		M 20175	1732.5	QPSK	1	0	23.24
					50	0	22.47
				16-QAM	1	0	22.89
					50	0	21.45
		H 20350	1750.0	QPSK	1	0	23.31
					50	0	22.42
				16-QAM	1	0	22.89
					50	0	21.61



REPORT No.: SZ15080014W02

Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		EIRP (dBm)
					RB Size	RB Offset	
LTE Band 4	5MHz	L 19975	1712.5	QPSK	1	0	22.86
					25	0	21.33
				16-QAM	1	0	22.57
					25	0	21.36
		M 20175	1732.5	QPSK	1	0	23.29
					25	0	22.27
				16-QAM	1	0	23.18
					25	0	22.31
		H 20375	1752.5	QPSK	1	0	22.98
					25	0	21.49
				16-QAM	1	0	22.66
					25	0	21.31
Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		EIRP (dBm)
					RB Size	RB Offset	
LTE Band 4	3MHz	L 19965	1711.5	QPSK	1	0	23.10
					15	0	22.11
				16-QAM	1	0	22.87
					15	0	21.41
		M 20175	1732.5	QPSK	1	0	22.99
					15	0	21.87
				16-QAM	1	0	22.57
					15	0	21.31
		H 20385	1753.5	QPSK	1	0	23.14
					15	0	22.57
				16-QAM	1	0	22.86
					15	0	21.37
Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		EIRP (dBm)
					RB Size	RB Offset	
LTE Band 4	1.4MHz	L 19957	1710.7	QPSK	1	0	23.15
					6	0	22.50
				16-QAM	1	0	22.97
					6	0	21.38
		M 20175	1732.5	QPSK	1	0	23.17
					6	0	22.54
				16-QAM	1	0	22.89
					6	0	21.14
		H 20393	1754.3	QPSK	1	0	23.11
					6	0	21.86
				16-QAM	1	0	22.93
					6	0	21.41



REPORT No.: SZ15080014W02

Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		EIRP (dBm)
					RB Size	RB Offset	
LTE Band 7	20MHz	L 20850	2510	QPSK	1	0	23.29
					100	0	22.14
				16-QAM	1	0	22.87
					100	0	21.33
		M 21100	2535	QPSK	1	0	23.46
					100	0	22.17
				16-QAM	1	0	22.86
					100	0	21.44
		H 21350	2560	QPSK	1	0	23.23
					100	0	21.77
				16-QAM	1	0	22.75
					100	0	21.11
Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		EIRP (dBm)
					RB Size	RB Offset	
LTE Band 7	15MHz	L 20825	2507.5	QPSK	1	0	23.51
					75	0	22.47
				16-QAM	1	0	22.86
					75	0	21.25
		M 21100	2535	QPSK	1	0	23.44
					75	0	22.31
				16-QAM	1	0	22.69
					75	0	21.15
		H 21375	2562.5	QPSK	1	0	23.32
					75	0	22.11
				16-QAM	1	0	22.68
					75	0	21.27
Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		EIRP (dBm)
					RB Size	RB Offset	
LTE Band 7	10MHz	L 20800	2505	QPSK	1	0	23.43
					50	0	22.15
				16-QAM	1	0	22.49
					50	0	21.12
		M 21100	2535	QPSK	1	0	23.16
					50	0	20.97
				16-QAM	1	0	22.89
					50	0	21.47
		H 21400	2565	QPSK	1	0	23.33
					50	0	22.18
				16-QAM	1	0	22.69
					50	0	20.27



REPORT No.: SZ15080014W02

Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		EIRP (dBm)
					RB Size	RB Offset	
LTE Band 7	5MHz	L 20775	2502.5	QPSK	1	0	23.16
					25	0	22.44
				16-QAM	1	0	22.85
					25	0	21.22
		M 21100	2535	QPSK	1	0	23.25
					25	0	22.39
				16-QAM	1	0	22.78
					25	0	21.33
		H 21425	2567.5	QPSK	1	0	23.12
					25	0	21.87
				16-QAM	1	0	22.64
					25	0	21.11

Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		ERP (dBm)
					RB Size	RB Offset	
LTE Band 17	10MHz	L 23780	709	QPSK	1	0	23.12
					50	0	21.49
				16-QAM	1	0	22.88
					50	0	21.55
		M 23790	710	QPSK	1	0	23.39
					50	0	22.17
				16-QAM	1	0	22.69
					50	0	20.57
		H 23800	711	QPSK	1	0	23.26
					50	0	21.88
				16-QAM	1	0	22.64
					50	0	20.37
Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		ERP (dBm)
					RB Size	RB Offset	
LTE Band 17	5MHz	L 23755	706.5	QPSK	1	0	23.16
					25	0	22.01
				16-QAM	1	0	22.67
					25	0	20.56
		M 23790	710	QPSK	1	0	23.16
					25	0	21.94
				16-QAM	1	0	22.46
					25	0	21.11
		H 23825	713.5	QPSK	1	0	23.24
					25	0	22.02
				16-QAM	1	0	22.73
					25	0	21.27



2.8 Radiated Spurious Emissions

2.8.1 Requirement

According to FCC section 2.1053 and section 27.53(g), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43+10*\log(P)$ dB. This calculated to be -13dBm.

2.8.2 Test Description

See section 2.7.2 of this report.

Note: when doing measurements above 1GHz, the EUT has been within the 3dB cone width of the horn antenna during horizontal antenna.

2.8.3 Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

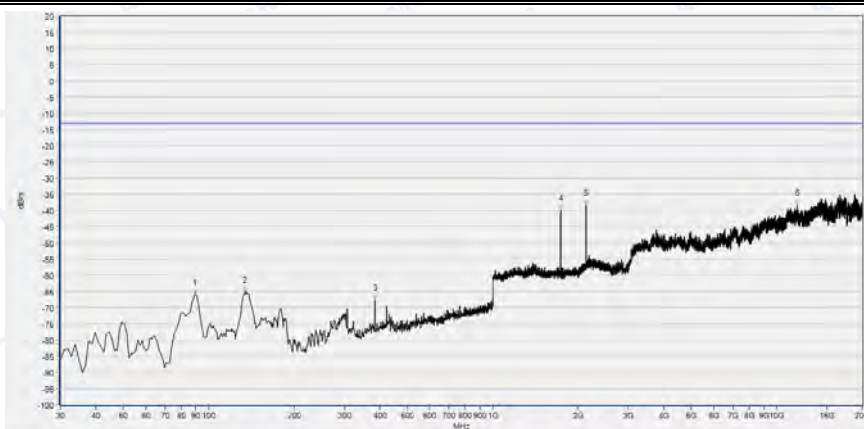
Test Plots for the Whole Measurement Frequency Range:

Note1: the power of the EUT transmitting frequency should be ignored.

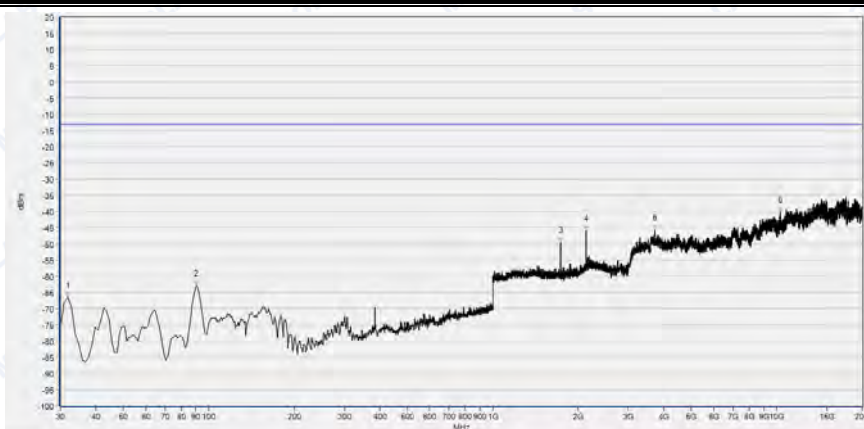
Note2: All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.



LTE Band 4 1.4MHz BW, Mid Channel, QPSK



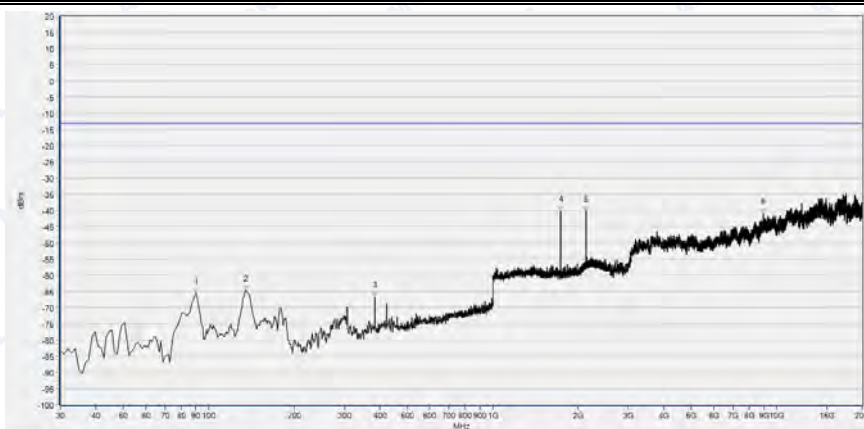
Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	89.229	-66.01	-13.00	Horizontal	PASS
2	133.894	-65.16	-13.00	Horizontal	PASS
3	384.404	-67.57	-13.00	Horizontal	PASS
4	1733.167	-40.03	-13.00	Horizontal	PASS
5	2132.566	-38.36	-13.00	Horizontal	PASS
6	11838.040	-38.37	-13.00	Horizontal	PASS



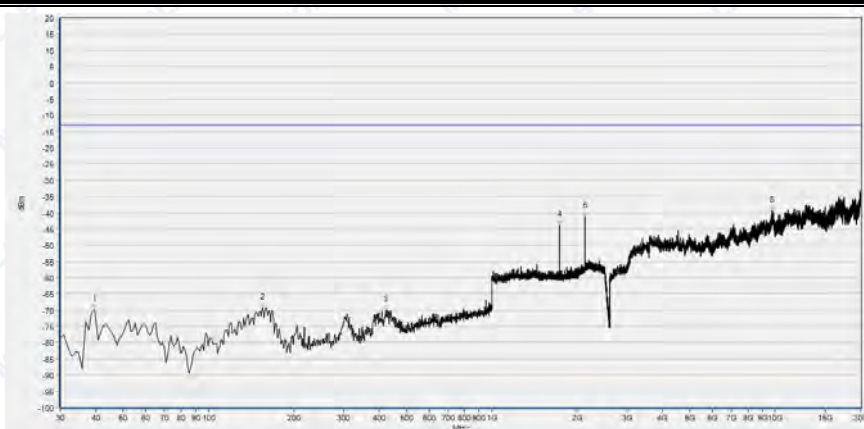
Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	31.942	-66.42	-13.00	Vertical	PASS
2	90.200	-62.89	-13.00	Vertical	PASS
3	1733.167	-49.46	-13.00	Vertical	PASS
4	2133.367	-45.89	-13.00	Vertical	PASS
5	3713.786	-45.66	-13.00	Vertical	PASS
6	10294.982	-40.27	-13.00	Vertical	PASS



LTE Band 4 1.4MHz BW, Mid Channel, 16QAM



Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	90.200	-65.83	-13.00	Horizontal	PASS
2	134.865	-64.86	-13.00	Horizontal	PASS
3	384.404	-66.71	-13.00	Horizontal	PASS
4	1733.167	-40.25	-13.00	Horizontal	PASS
5	2132.566	-40.30	-13.00	Horizontal	PASS
6	8978.163	-40.93	-13.00	Horizontal	PASS



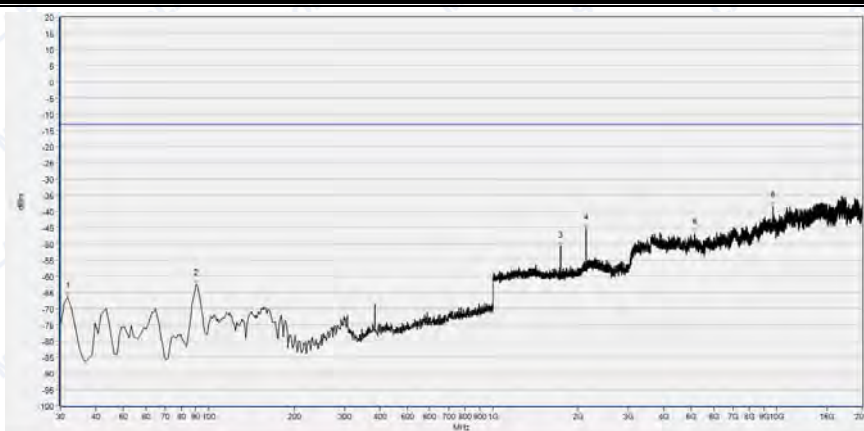
Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	39.710	-69.73	-13.00	Vertical	PASS
2	155.255	-69.44	-13.00	Vertical	PASS
3	422.272	-70.02	-13.00	Vertical	PASS
4	1733.167	-44.01	-13.00	Vertical	PASS
5	2132.566	-41.17	-13.00	Vertical	PASS
6	9740.990	-39.34	-13.00	Vertical	PASS



LTE Band 4 3MHz BW, Mid Channel, QPSK



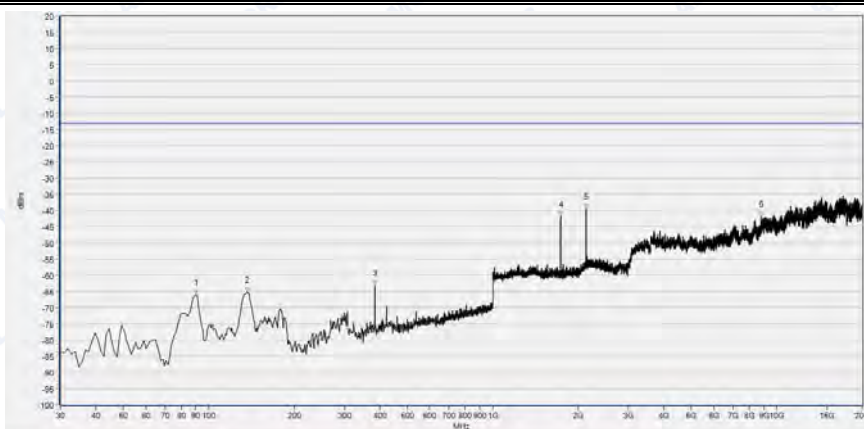
Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	90.200	-65.89	-13.00	Horizontal	PASS
2	132.923	-65.11	-13.00	Horizontal	PASS
3	384.404	-63.92	-13.00	Horizontal	PASS
4	1732.366	-41.83	-13.00	Horizontal	PASS
5	2133.367	-39.48	-13.00	Horizontal	PASS
6	7107.351	-43.16	-13.00	Horizontal	PASS



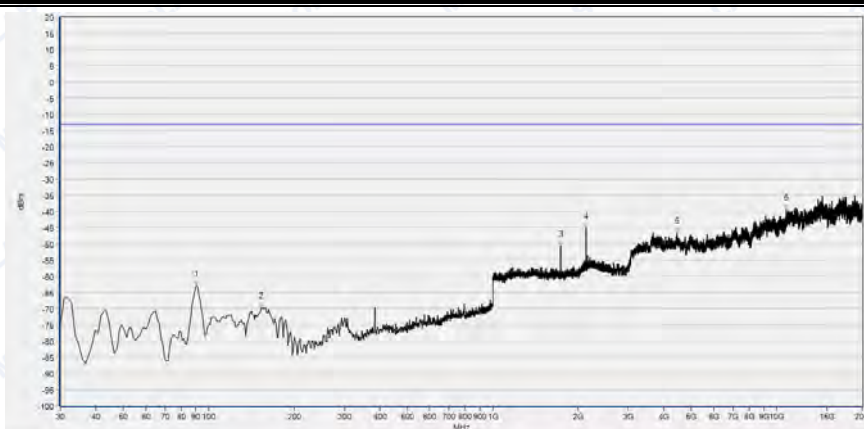
Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	31.942	-66.48	-13.00	Vertical	PASS
2	90.200	-62.69	-13.00	Vertical	PASS
3	1732.366	-50.99	-13.00	Vertical	PASS
4	2132.566	-45.56	-13.00	Vertical	PASS
5	5129.222	-46.96	-13.00	Vertical	PASS
6	9717.786	-38.68	-13.00	Vertical	PASS



LTE Band 4 3MHz BW, Mid Channel, 16QAM



Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	90.200	-66.00	-13.00	Horizontal	PASS
2	136.807	-65.24	-13.00	Horizontal	PASS
3	384.404	-62.99	-13.00	Horizontal	PASS
4	1733.967	-41.88	-13.00	Horizontal	PASS
5	2133.367	-39.60	-13.00	Horizontal	PASS
6	8786.731	-41.96	-13.00	Horizontal	PASS

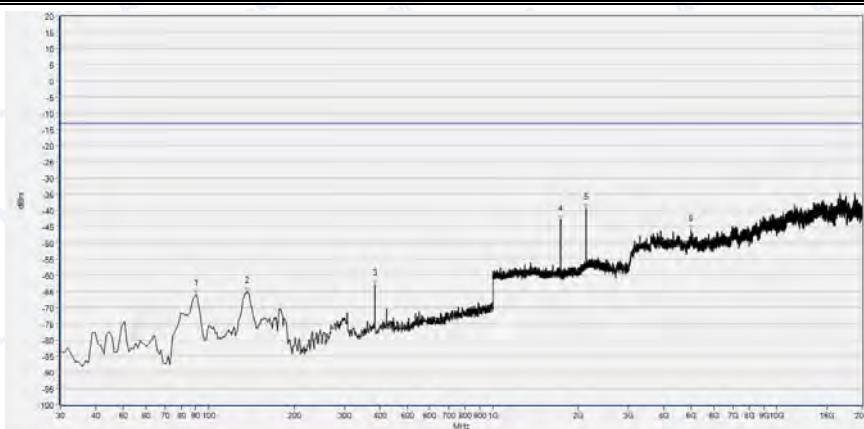


Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	90.200	-62.97	-13.00	Vertical	PASS
2	153.313	-69.88	-13.00	Vertical	PASS
3	1733.167	-50.64	-13.00	Vertical	PASS
4	2132.566	-45.25	-13.00	Vertical	PASS
5	4447.608	-46.55	-13.00	Vertical	PASS
6	10819.970	-39.46	-13.00	Vertical	PASS



REPORT No.: SZ15080014W02

LTE Band 4 5MHz BW, Mid Channel, QPSK



Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	90.200	-65.86	-13.00	Horizontal	PASS
2	136.807	-65.34	-13.00	Horizontal	PASS
3	384.404	-62.84	-13.00	Horizontal	PASS
4	1732.366	-43.05	-13.00	Horizontal	PASS
5	2130.965	-39.47	-13.00	Horizontal	PASS
6	4984.197	-46.18	-13.00	Horizontal	PASS

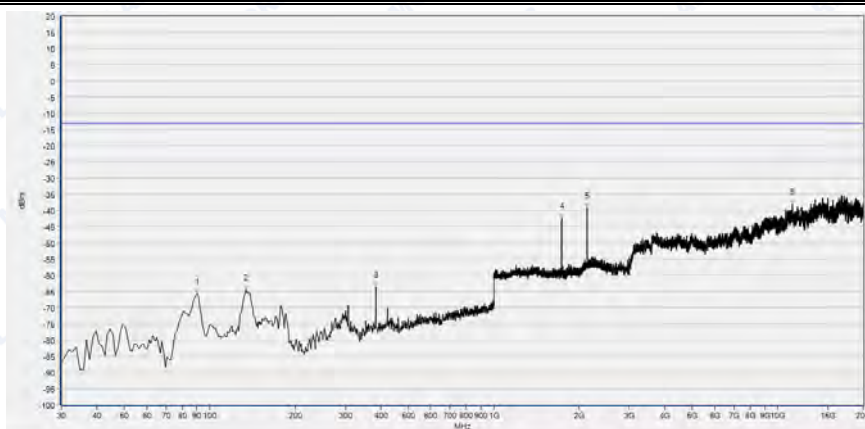


Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	43.594	-69.91	-13.00	Vertical	PASS
2	90.200	-62.83	-13.00	Vertical	PASS
3	1731.566	-52.39	-13.00	Vertical	PASS
4	2131.766	-43.29	-13.00	Vertical	PASS
5	7008.735	-45.55	-13.00	Vertical	PASS
6	14753.026	-36.13	-13.00	Vertical	PASS

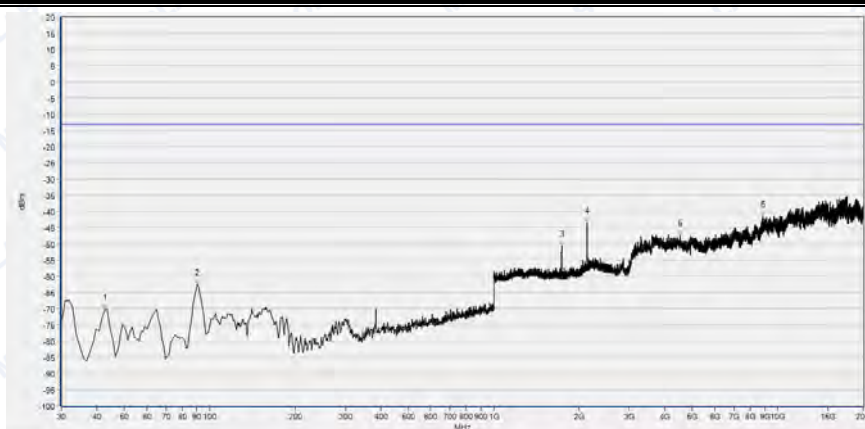


REPORT No.: SZ15080014W02

LTE Band 4 5MHz BW, Mid Channel, 16QAM



Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	90.200	-65.62	-13.00	Horizontal	PASS
2	133.894	-64.56	-13.00	Horizontal	PASS
3	384.404	-63.67	-13.00	Horizontal	PASS
4	1734.767	-42.47	-13.00	Horizontal	PASS
5	2132.566	-39.24	-13.00	Horizontal	PASS
6	11243.441	-38.18	-13.00	Horizontal	PASS



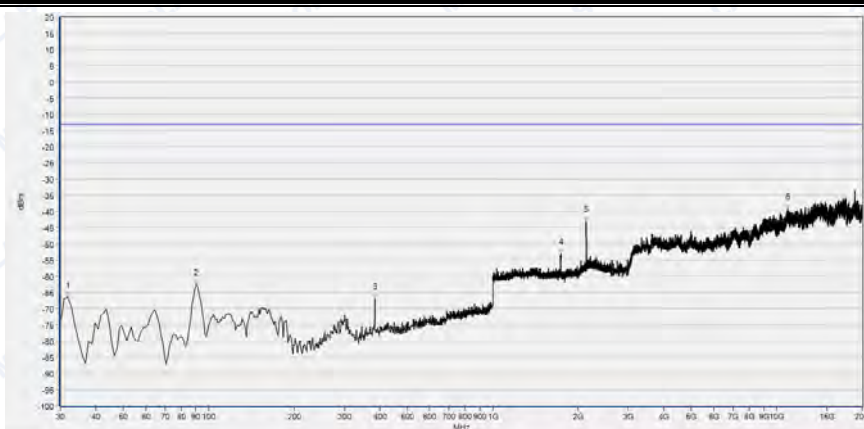
Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	42.623	-70.17	-13.00	Vertical	PASS
2	90.200	-62.65	-13.00	Vertical	PASS
3	1733.967	-50.83	-13.00	Vertical	PASS
4	2132.566	-43.47	-13.00	Vertical	PASS
5	4540.423	-47.38	-13.00	Vertical	PASS
6	8876.646	-41.58	-13.00	Vertical	PASS



LTE Band 4 10MHz BW, Mid Channel, QPSK



Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	89.229	-61.95	-13.00	Horizontal	PASS
2	179.530	-58.18	-13.00	Horizontal	PASS
3	252.352	-63.39	-13.00	Horizontal	PASS
4	1737.169	-43.25	-13.00	Horizontal	PASS
5	2130.165	-44.60	-13.00	Horizontal	PASS
6	3710.885	-45.65	-13.00	Horizontal	PASS



Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	31.942	-66.42	-13.00	Vertical	PASS
2	90.200	-62.68	-13.00	Vertical	PASS
3	384.404	-66.82	-13.00	Vertical	PASS
4	1734.767	-53.13	-13.00	Vertical	PASS
5	2129.365	-43.21	-13.00	Vertical	PASS
6	10892.482	-39.21	-13.00	Vertical	PASS

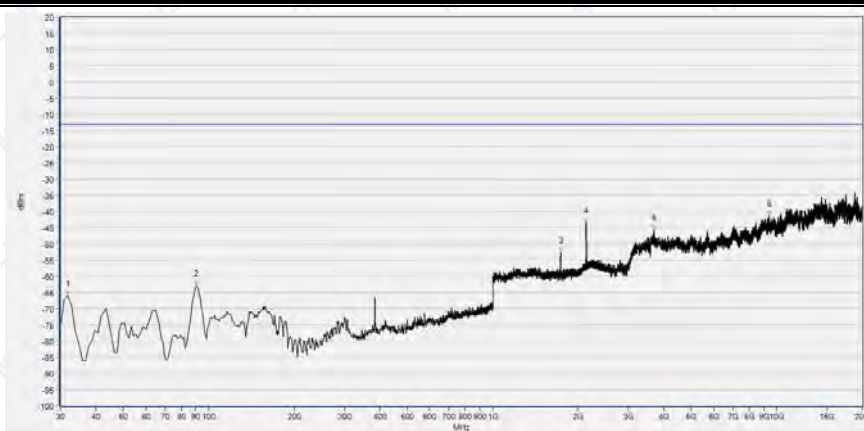


REPORT No.: SZ15080014W02

LTE Band 4 10MHz BW, Mid Channel, 16QAM



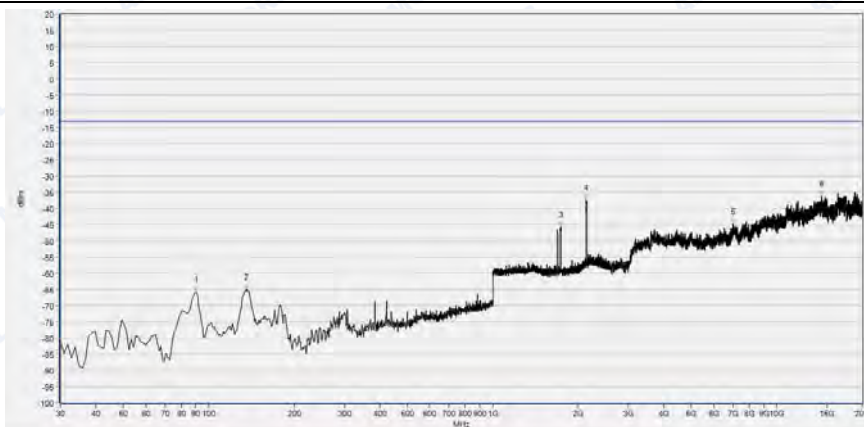
Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	90.200	-61.73	-13.00	Horizontal	PASS
2	179.530	-58.92	-13.00	Horizontal	PASS
3	710.651	-58.79	-13.00	Horizontal	PASS
4	1735.568	-43.57	-13.00	Horizontal	PASS
5	2133.367	-44.28	-13.00	Horizontal	PASS
6	5004.501	-45.57	-13.00	Horizontal	PASS



Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	31.942	-65.96	-13.00	Vertical	PASS
2	90.200	-62.83	-13.00	Vertical	PASS
3	1736.368	-52.73	-13.00	Vertical	PASS
4	2129.365	-43.63	-13.00	Vertical	PASS
5	3702.184	-45.61	-13.00	Vertical	PASS
6	9419.037	-41.41	-13.00	Vertical	PASS



LTE Band 4 15MHz BW, Mid Channel, QPSK



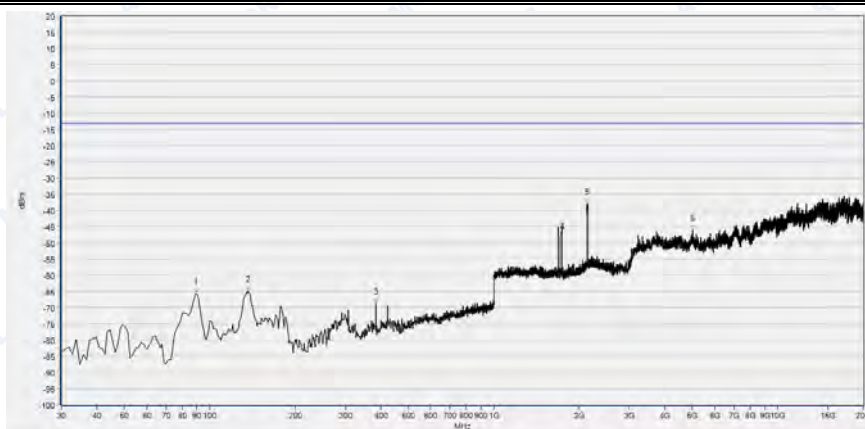
Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	90.200	-65.61	-13.00	Horizontal	PASS
2	135.836	-65.11	-13.00	Horizontal	PASS
3	1734.767	-45.79	-13.00	Horizontal	PASS
4	2135.768	-37.45	-13.00	Horizontal	PASS
5	7014.536	-44.86	-13.00	Horizontal	PASS
6	14375.963	-36.19	-13.00	Horizontal	PASS



Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	31.942	-66.34	-13.00	Vertical	PASS
2	90.200	-62.55	-13.00	Vertical	PASS
3	1732.366	-53.92	-13.00	Vertical	PASS
4	2127.764	-42.41	-13.00	Vertical	PASS
5	5036.406	-47.43	-13.00	Vertical	PASS
6	10825.771	-39.02	-13.00	Vertical	PASS



LTE Band 4 15MHz BW, Mid Channel, 16QAM



Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	89.229	-65.78	-13.00	Horizontal	PASS
2	136.807	-65.05	-13.00	Horizontal	PASS
3	384.404	-68.88	-13.00	Horizontal	PASS
4	1735.568	-45.21	-13.00	Horizontal	PASS
5	2134.167	-38.04	-13.00	Horizontal	PASS
6	5004.501	-46.23	-13.00	Horizontal	PASS



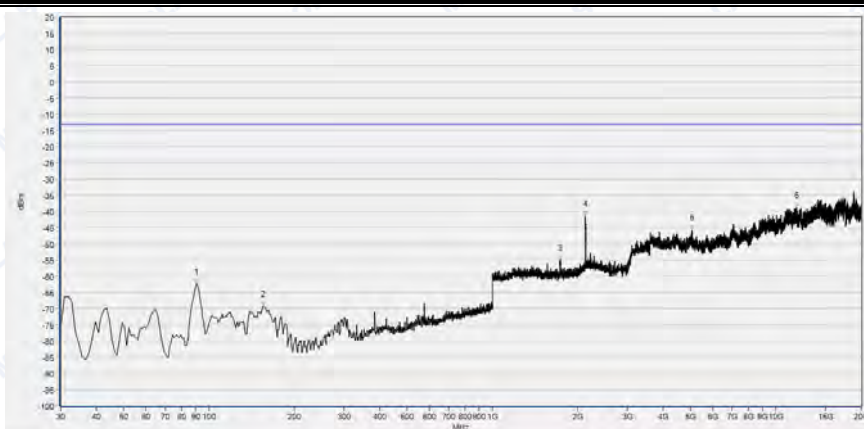
Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	90.200	-62.34	-13.00	Vertical	PASS
2	157.197	-69.56	-13.00	Vertical	PASS
3	1736.368	-53.86	-13.00	Vertical	PASS
4	2127.764	-41.78	-13.00	Vertical	PASS
5	7034.839	-44.31	-13.00	Vertical	PASS
6	14338.256	-36.99	-13.00	Vertical	PASS



LTE Band 4 20MHz BW, Mid Channel, QPSK



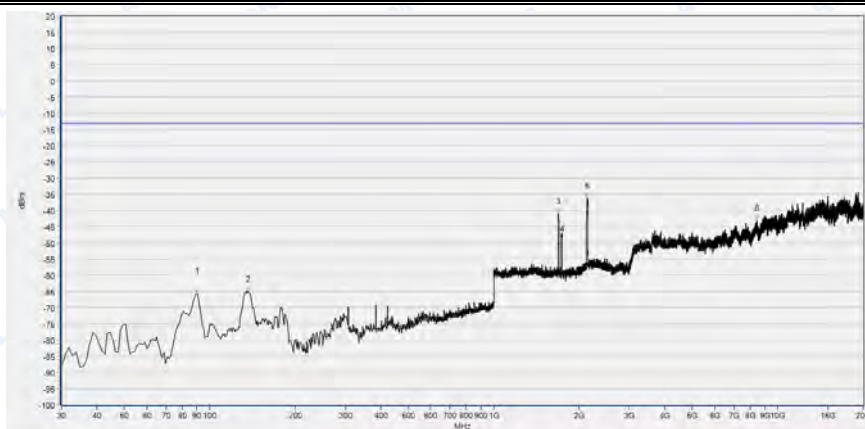
Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	90.200	-61.51	-13.00	Horizontal	PASS
2	135.836	-59.60	-13.00	Horizontal	PASS
3	1689.945	-41.31	-13.00	Horizontal	PASS
4	1736.368	-46.42	-13.00	Horizontal	PASS
5	2141.371	-34.89	-13.00	Horizontal	PASS
6	7116.053	-43.60	-13.00	Horizontal	PASS



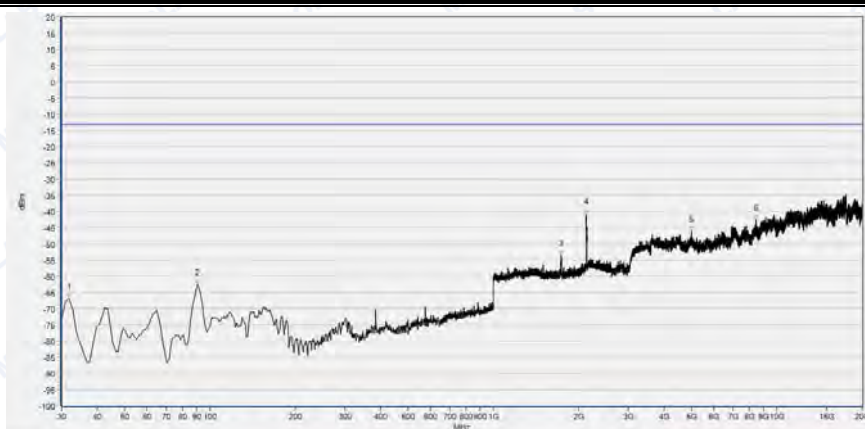
Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	90.200	-62.28	-13.00	Vertical	PASS
2	155.255	-69.32	-13.00	Vertical	PASS
3	1733.167	-55.06	-13.00	Vertical	PASS
4	2126.963	-41.42	-13.00	Vertical	PASS
5	5059.610	-45.65	-13.00	Vertical	PASS
6	11846.741	-38.87	-13.00	Vertical	PASS



LTE Band 4 20MHz BW, Mid Channel, 16QAM



Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	90.200	-65.83	-13.00	Horizontal	PASS
2	136.807	-65.03	-13.00	Horizontal	PASS
3	1690.745	-40.97	-13.00	Horizontal	PASS
4	1737.169	-46.91	-13.00	Horizontal	PASS
5	2136.568	-36.21	-13.00	Horizontal	PASS
6	8427.071	-43.20	-13.00	Horizontal	PASS



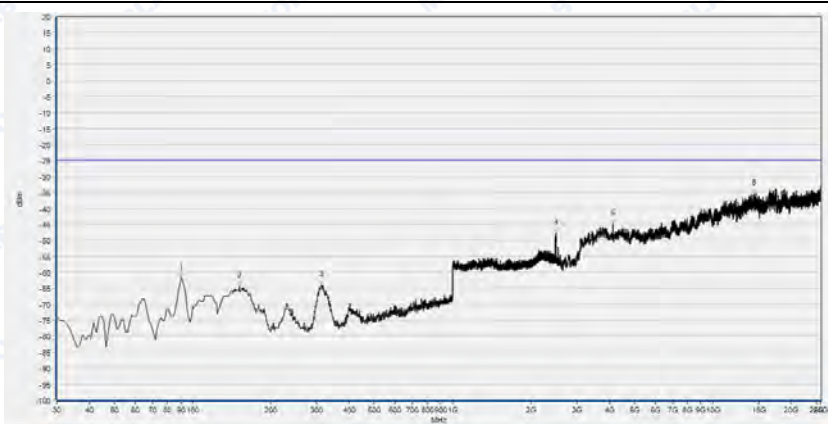
Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	31.942	-66.95	-13.00	Vertical	PASS
2	90.200	-62.66	-13.00	Vertical	PASS
3	1736.368	-53.62	-13.00	Vertical	PASS
4	2126.963	-41.08	-13.00	Vertical	PASS
5	5013.202	-46.26	-13.00	Vertical	PASS
6	8464.777	-42.66	-13.00	Vertical	PASS



LTE Band 7 5MHz BW, Mid Channel, QPSK



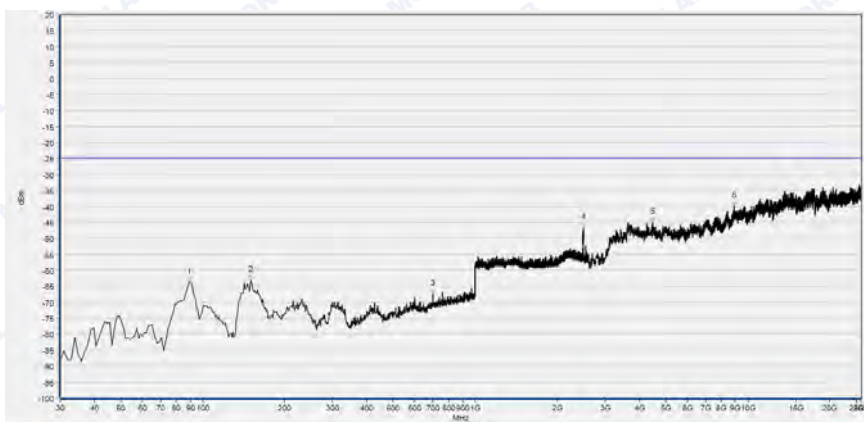
Num	Freq(MHz)	PK	limit PK	Antenna	Verdict
1	90.140	-63.27	-25.00	Horizontal	PASS
2	147.370	-65.14	-25.00	Horizontal	PASS
3	299.660	-68.68	-25.00	Horizontal	PASS
4	2535.156	-48.70	-25.00	Horizontal	PASS
5	3672.340	-45.07	-25.00	Horizontal	PASS
6	10948.936	-37.35	-25.00	Horizontal	PASS



Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	90.140	-61.81	-25.00	Vertical	PASS
2	151.250	-64.42	-25.00	Vertical	PASS
3	312.270	-64.03	-25.00	Vertical	PASS
4	2535.156	-47.65	-25.00	Vertical	PASS
5	4123.404	-44.87	-25.00	Vertical	PASS
6	14446.809	-35.45	-25.00	Vertical	PASS



LTE Band 7 5MHz BW, Mid Channel, 16QAM



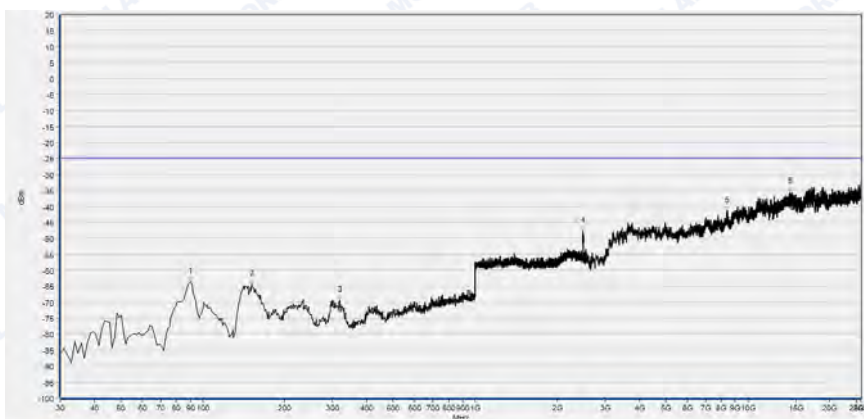
Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	89.170	-63.81	-25.00	Horizontal	PASS
2	150.280	-63.12	-25.00	Horizontal	PASS
3	699.300	-67.35	-25.00	Horizontal	PASS
4	2535.156	-46.83	-25.00	Horizontal	PASS
5	4489.362	-44.99	-25.00	Horizontal	PASS
6	8906.383	-39.80	-25.00	Horizontal	PASS



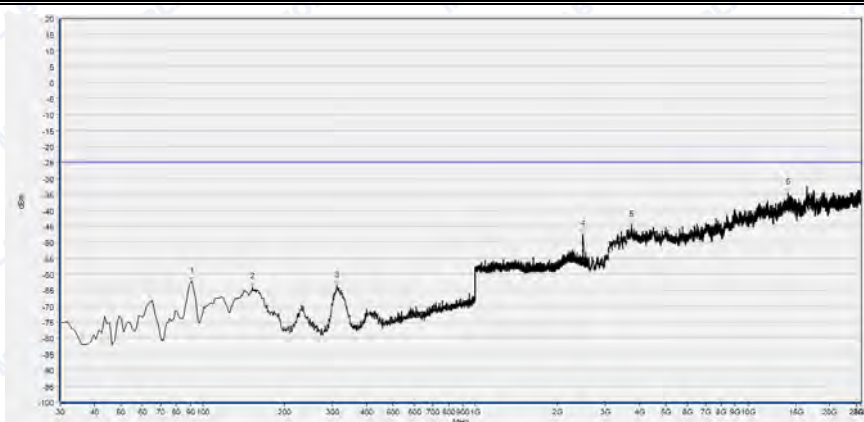
Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	90.140	-62.46	-25.00	Vertical	PASS
2	143.490	-64.53	-25.00	Vertical	PASS
3	310.330	-62.89	-25.00	Vertical	PASS
4	2535.156	-47.14	-25.00	Vertical	PASS
5	3825.532	-45.50	-25.00	Vertical	PASS
6	12195.745	-36.46	-25.00	Vertical	PASS



LTE Band 7 10MHz BW, Mid Channel, QPSK



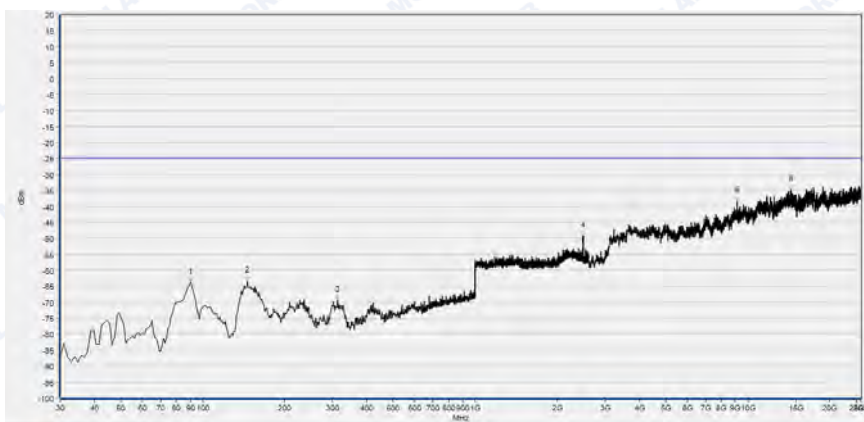
Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	90.140	-63.53	-25.00	Horizontal	PASS
2	151.250	-64.50	-25.00	Horizontal	PASS
3	319.060	-69.45	-25.00	Horizontal	PASS
4	2535.156	-47.60	-25.00	Horizontal	PASS
5	8365.957	-41.54	-25.00	Horizontal	PASS
6	14280.851	-35.49	-25.00	Horizontal	PASS



Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	91.110	-62.18	-25.00	Vertical	PASS
2	152.220	-64.12	-25.00	Vertical	PASS
3	310.330	-63.65	-25.00	Vertical	PASS
4	2535.156	-47.57	-25.00	Vertical	PASS
5	3757.447	-44.53	-25.00	Vertical	PASS
6	14021.277	-34.57	-25.00	Vertical	PASS



LTE Band 7 10MHz BW, Mid Channel, 16QAM



Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	90.140	-63.91	-25.00	Horizontal	PASS
2	145.430	-63.46	-25.00	Horizontal	PASS
3	312.270	-69.32	-25.00	Horizontal	PASS
4	2535.156	-49.24	-25.00	Horizontal	PASS
5	9161.702	-38.36	-25.00	Horizontal	PASS
6	14434.043	-34.78	-25.00	Horizontal	PASS



Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	90.140	-62.34	-25.00	Vertical	PASS
2	157.070	-64.36	-25.00	Vertical	PASS
3	313.240	-62.96	-25.00	Vertical	PASS
4	2535.156	-48.57	-25.00	Vertical	PASS
5	7046.809	-41.41	-25.00	Vertical	PASS
6	11136.170	-35.28	-25.00	Vertical	PASS



LTE Band 7 15MHz BW, Mid Channel, QPSK



Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	90.140	-64.10	-25.00	Horizontal	PASS
2	134.760	-60.93	-25.00	Horizontal	PASS
3	576.110	-66.18	-25.00	Horizontal	PASS
4	2535.156	-46.95	-25.00	Horizontal	PASS
5	4970.213	-46.14	-25.00	Horizontal	PASS
6	11736.170	-38.45	-25.00	Horizontal	PASS



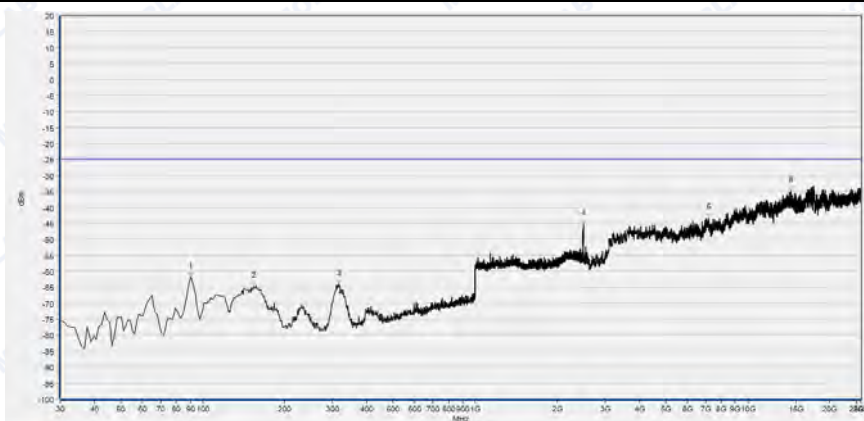
Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	90.140	-61.98	-25.00	Vertical	PASS
2	153.190	-64.11	-25.00	Vertical	PASS
3	311.300	-63.41	-25.00	Vertical	PASS
4	2535.156	-47.60	-25.00	Vertical	PASS
5	6365.957	-44.41	-25.00	Vertical	PASS
6	9770.213	-38.73	-25.00	Vertical	PASS



LTE Band 7 15MHz BW, Mid Channel, 16QAM



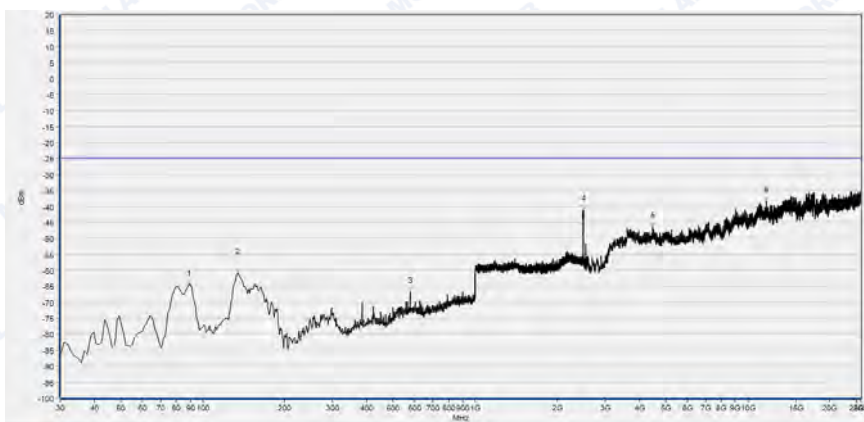
Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	89.170	-64.10	-25.00	Horizontal	PASS
2	134.760	-60.55	-25.00	Horizontal	PASS
3	576.110	-65.36	-25.00	Horizontal	PASS
4	2535.156	-44.25	-25.00	Horizontal	PASS
5	7642.553	-43.58	-25.00	Horizontal	PASS
6	17463.830	-33.64	-25.00	Horizontal	PASS



Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	90.140	-61.90	-25.00	Vertical	PASS
2	154.160	-64.72	-25.00	Vertical	PASS
3	317.120	-64.00	-25.00	Vertical	PASS
4	2535.156	-45.32	-25.00	Vertical	PASS
5	7174.468	-43.28	-25.00	Vertical	PASS
6	14378.723	-34.86	-25.00	Vertical	PASS



LTE Band 7 20MHz BW, Mid Channel, QPSK



Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	89.170	-64.40	-25.00	Horizontal	PASS
2	134.760	-60.71	-25.00	Horizontal	PASS
3	576.110	-66.74	-25.00	Horizontal	PASS
4	2535.156	-41.00	-25.00	Horizontal	PASS
5	4476.596	-46.39	-25.00	Horizontal	PASS
6	11723.404	-38.29	-25.00	Horizontal	PASS



Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	90.140	-61.41	-25.00	Vertical	PASS
2	162.890	-65.08	-25.00	Vertical	PASS
3	309.360	-63.95	-25.00	Vertical	PASS
4	2535.156	-48.06	-25.00	Vertical	PASS
5	6612.766	-43.67	-25.00	Vertical	PASS
6	11795.745	-35.86	-25.00	Vertical	PASS



REPORT No.: SZ15080014W02

LTE Band 7 20MHz BW, Mid Channel, 16QAM



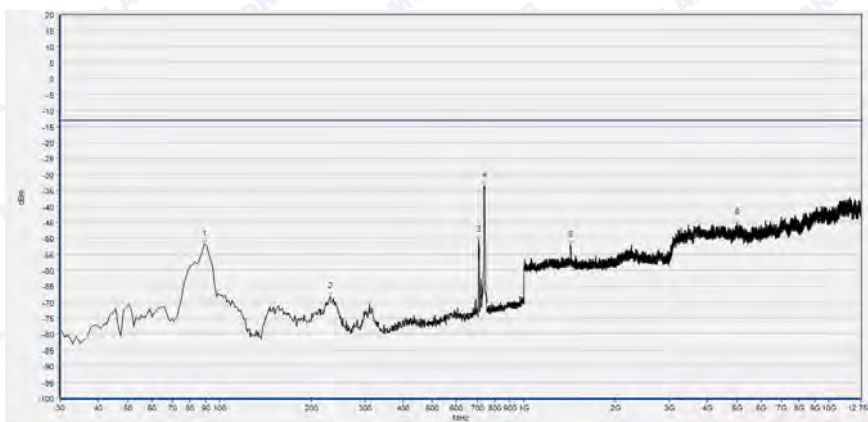
Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	90.140	-63.98	-25.00	Horizontal	PASS
2	133.790	-60.64	-25.00	Horizontal	PASS
3	576.110	-66.59	-25.00	Horizontal	PASS
4	2535.156	-41.22	-25.00	Horizontal	PASS
5	7042.553	-44.08	-25.00	Horizontal	PASS
6	14434.043	-36.11	-25.00	Horizontal	PASS



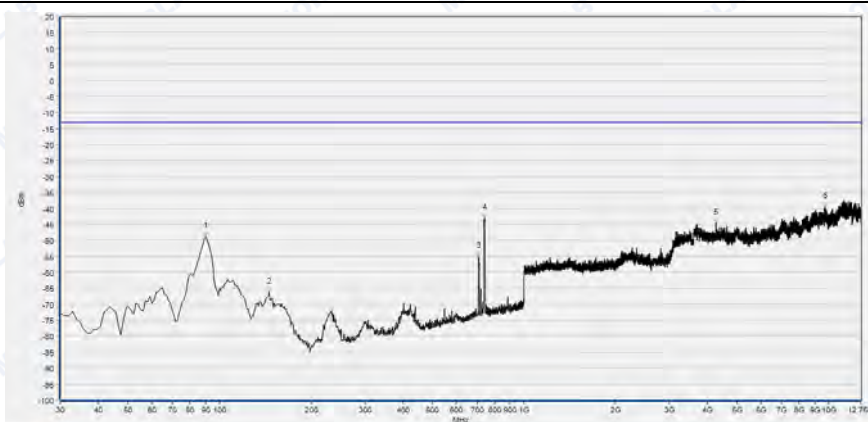
Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	90.140	-62.38	-25.00	Vertical	PASS
2	156.100	-64.78	-25.00	Vertical	PASS
3	311.300	-63.33	-25.00	Vertical	PASS
4	2535.156	-48.31	-25.00	Vertical	PASS
5	5063.830	-44.60	-25.00	Vertical	PASS
6	14089.362	-34.75	-25.00	Vertical	PASS



LTE Band 17 5MHz BW, Mid Channel, QPSK



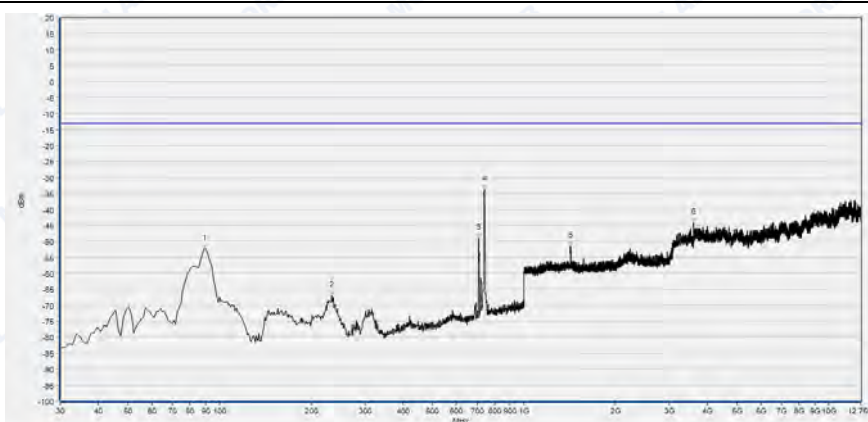
Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	89.229	-52.01	-13.00	Horizontal	PASS
2	230.991	-68.29	-13.00	Horizontal	PASS
3	708.709	-50.70	-13.00	Horizontal	PASS
4	739.780	-33.71	-13.00	Horizontal	PASS
5	1418.273	-52.18	-13.00	Horizontal	PASS
6	5012.122	-45.35	-13.00	Horizontal	PASS



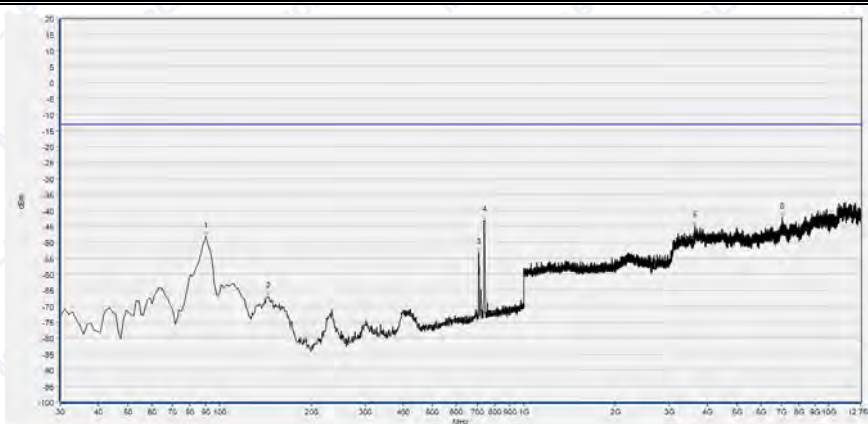
Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	90.200	-48.80	-13.00	Vertical	PASS
2	145.546	-66.32	-13.00	Vertical	PASS
3	708.709	-55.16	-13.00	Vertical	PASS
4	741.722	-43.10	-13.00	Vertical	PASS
5	4256.811	-44.55	-13.00	Vertical	PASS
6	9730.786	-39.38	-13.00	Vertical	PASS



LTE Band 17 5MHz BW, Mid Channel, 16QAM



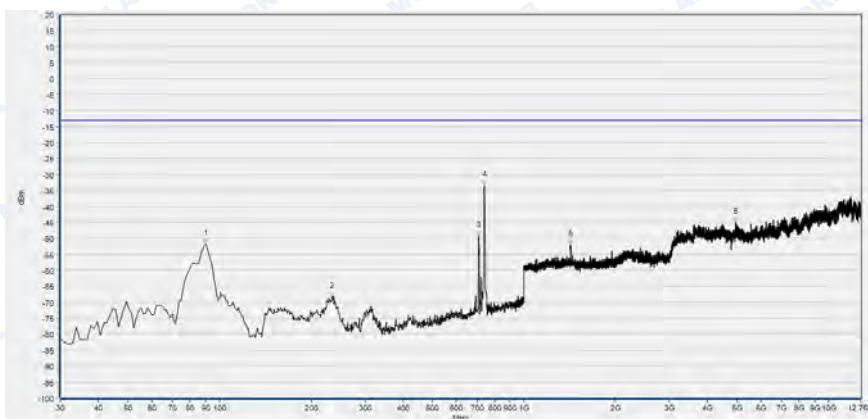
Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	89.229	-52.49	-13.00	Horizontal	PASS
2	232.933	-66.90	-13.00	Horizontal	PASS
3	708.709	-48.95	-13.00	Horizontal	PASS
4	741.722	-33.87	-13.00	Horizontal	PASS
5	1418.273	-51.58	-13.00	Horizontal	PASS
6	3605.051	-44.04	-13.00	Horizontal	PASS



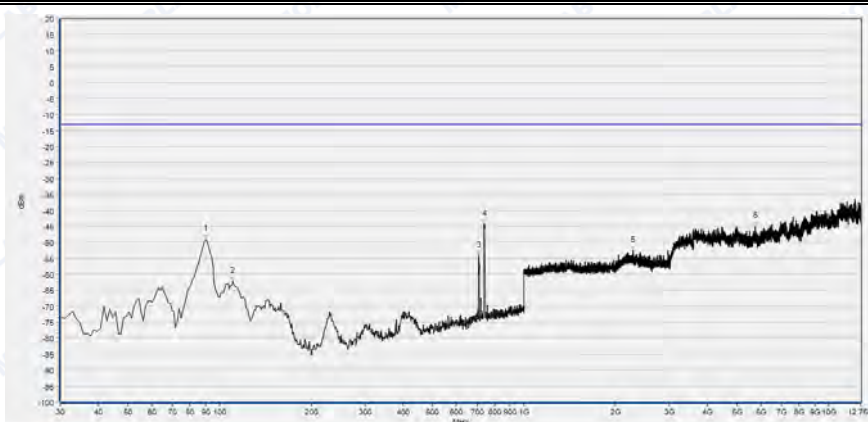
Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	90.200	-48.19	-13.00	Vertical	PASS
2	144.575	-67.00	-13.00	Vertical	PASS
3	708.709	-53.24	-13.00	Vertical	PASS
4	740.751	-43.00	-13.00	Vertical	PASS
5	3635.507	-44.77	-13.00	Vertical	PASS
6	7024.255	-42.03	-13.00	Vertical	PASS



LTE Band 17 10MHz BW, Mid Channel, QPSK



Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	90.200	-51.77	-13.00	Horizontal	PASS
2	233.904	-68.38	-13.00	Horizontal	PASS
3	708.709	-49.19	-13.00	Horizontal	PASS
4	739.780	-33.45	-13.00	Horizontal	PASS
5	1420.407	-51.88	-13.00	Horizontal	PASS
6	4943.089	-45.09	-13.00	Horizontal	PASS

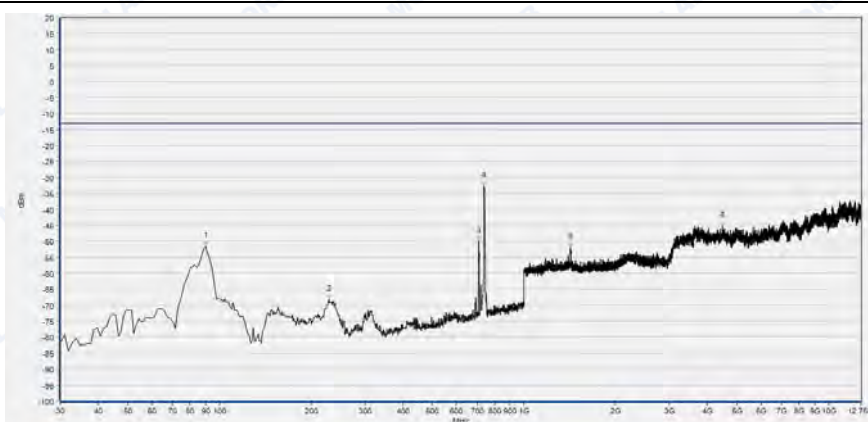


Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	90.200	-49.05	-13.00	Vertical	PASS
2	110.591	-62.18	-13.00	Vertical	PASS
3	708.709	-54.23	-13.00	Vertical	PASS
4	740.751	-44.42	-13.00	Vertical	PASS
5	2284.161	-52.62	-13.00	Vertical	PASS
6	5755.251	-45.02	-13.00	Vertical	PASS

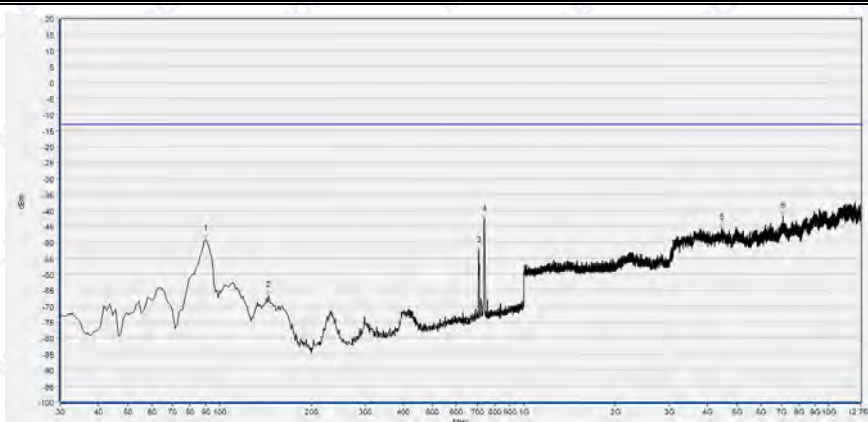


REPORT No.: SZ15080014W02

LTE Band 17 10MHz BW, Mid Channel, 16QAM



Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	90.200	-51.47	-13.00	Horizontal	PASS
2	228.078	-68.17	-13.00	Horizontal	PASS
3	708.709	-49.93	-13.00	Horizontal	PASS
4	738.809	-32.79	-13.00	Horizontal	PASS
5	1421.474	-51.87	-13.00	Horizontal	PASS
6	4474.065	-45.15	-13.00	Horizontal	PASS



Num.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	90.200	-49.12	-13.00	Vertical	PASS
2	144.575	-66.67	-13.00	Vertical	PASS
3	708.709	-52.52	-13.00	Vertical	PASS
4	739.780	-42.75	-13.00	Vertical	PASS
5	4465.943	-45.52	-13.00	Vertical	PASS
6	7091.258	-41.85	-13.00	Vertical	PASS

***** END OF REPORT *****