

FCC&ISED Test Report

(Part 22&24&27&RSS130&132&133&139)

Product Name : NEO LTE Cellular Alarm Communicators
Model No : TL280LER, TL280LE, LE2080R, LE2080
FCC ID : F5317TL280LER
IC ID : 160A-TL2080LER

Applicant : DIGITAL SECURITY CONTROLS, A DIV. OF TYCO
SAFTEY PRODUCTS CANAD LTD.

Address : 3301 Langstaff Rd., Concord, ON L4K4L2 Canada

Date of Receipt : 2017/05/16
Issued Date : 2017/06/13
Report No. : 1750379R-HPUSP50V00-A
Report Version : V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

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Test Report

Issued Date : 2017/06/13

Report No.: 1750379R-HPUSP50V00-A



Product Name : NEO LTE Cellular Alarm Communicators
Applicant : DIGITAL SECURITY CONTROLS, A DIV. OF TYCO SAFTEY PRODUCTS CANAD LTD.
Address : 3301 Langstaff Rd., Concord, ON L4K4L2 Canada
Manufacturer : DIGITAL SECURITY CONTROLS, A DIV. OF TYCO SAFTEY PRODUCTS CANAD LTD.
Trade Name : DSC
Model No. : TL280LER, TL280LE, LE2080R, LE2080
EUT Rated Voltage : VDC 16.5V
EUT Test Voltage : VDC 16.5V (Power by Adapter AC 120V/60Hz)
Measurement Standard : FCC CFR Title 47 Part 2 22 24 27
RSS GEN Issue 4, RSS-130 Issue 1, RSS-132 Issue 3
RSS-133 Issue 6, RSS-139 Issue 3
Measurement Reference : TIA/EIA 603-D
Test Result : Complied

Documented By : Anny Chou
(Senior Adm. Specialist / Anny Chou)

Tested By : Vorana Chen
(Senior Engineer / Vorana Chen)

Approved By : Vincent Lin
(Director / Vincent Lin)

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1. GENERAL INFORMATION

1.1. EUT Description

Product Name	NEO LTE Cellular Alarm Communicators
Model No.	TL280LER, TL280LE, LE2080R, LE2080
Trade Name	DSC
IMEI No.	35696107
FCC ID	F5317TL280LER
IC ID	160A-TL2080LER
Modulation	LTE Band 2: QPSK/16-QAM
	LTE Band 4: QPSK/16-QAM
	LTE Band 5: QPSK/16-QAM
	LTE Band 12: QPSK/16-QAM
	LTE Band 13: QPSK/16-QAM
TX Frequency	LTE Band 2: 1850~1910MHz
	LTE Band 4: 1710MHz~1755MHz
	LTE Band 5: 824MHz ~849MHz
	LTE Band 12: 699MHz~716MHz
	LTE Band 13: 777~787MHz
Rx Frequency	LTE Band 2: 1930~1990MHz
	LTE Band 4: 2110~2155MHz
	LTE Band 5: 869~894MHz
	LTE Band 12: 729~746MHz
	LTE Band 13: 746~756MHz
Bandwidth	LTE Band 2: 1.4MHz/3MHz/5MHz/10MHz/15MHz/20MHz
	LTE Band 4: 1.4MHz/3MHz/5MHz/10MHz/15MHz/20MHz
	LTE Band 5: 1.4MHz/3MHz/5MHz/10MHz
	LTE Band 12: 1.4MHz/3MHz/5MHz/10MHz
	LTE Band 13: 5MHz/10MHz
HW Version	UA685 Rev.01
SW Version	5.1
Antenna Type	Dipole Antenna

Note: There are 3 additional models identical in construction and functionality, with less populated components than the main model.

TL280LER(is main model), TL280LE(no RS422 interface), LE2080R(no IP path),
LE2080(no IP and no RS422 path).

1.2. Antenna List

No	Manufacturer	Part No	Antenna Type	Peak Gain
1	Antetec Technologies Ltd	1010490101	Dipole Antenna	4.40dBi for 698-798MHz 3.90dBi for 824-894MHz 2.98dBi for 1710-1990MHz 3.73dBi for 2110-2170MHz

1.3. Operational Description

The information contained within this report is intended to show verification of compliance of the 700/850/1700/1900MHz to the requirements of FCC 47 CFR Part 2, 22, 24 and 27 & RSS GEN, RSS 130, RSS 132, RSS 133, RSS 139.

The EUT provide all functions described as above. The EUT is tested with maximum rated TX power via the Base Station simulator.

DEKRA has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined

as:

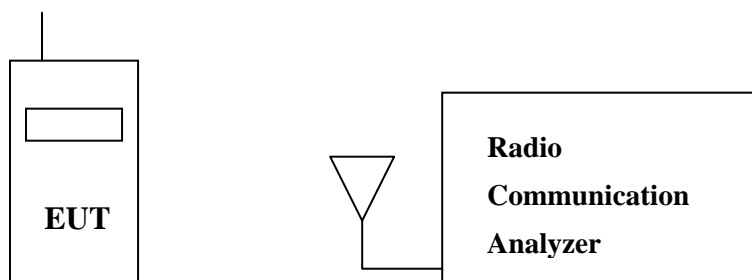
Test Mode:	LTE Band 2 (1.4M)-QPSK/16QAM
	LTE Band 2 (3M)-QPSK/16QAM
	LTE Band 2 (5M)-QPSK/16QAM
	LTE Band 2 (10M)-QPSK/16QAM
	LTE Band 2 (15M)-QPSK/16QAM
	LTE Band 2 (20M)-QPSK/16QAM
	LTE Band 4 (1.4M)-QPSK/16QAM
	LTE Band 4 (3M)-QPSK/16QAM
	LTE Band 4 (5M)-QPSK/16QAM
	LTE Band 4 (10M)-QPSK/16QAM
	LTE Band 4 (15M)-QPSK/16QAM
	LTE Band 4 (20M)-QPSK/16QAM
	LTE Band 5 (1.4M)-QPSK/16QAM
	LTE Band 5 (3M)-QPSK/16QAM
	LTE Band 5 (5M)-QPSK/16QAM
	LTE Band 5 (10M)-QPSK/16QAM
	LTE Band 12 (1.4M)-QPSK/16QAM
	LTE Band 12 (3M)-QPSK/16QAM
	LTE Band 12 (5M)-QPSK/16QAM
	LTE Band 12 (10M)-QPSK/16QAM
LTE Band 13 (5M)-QPSK/16QAM	
LTE Band 13 (10M)-QPSK/16QAM	

Note :

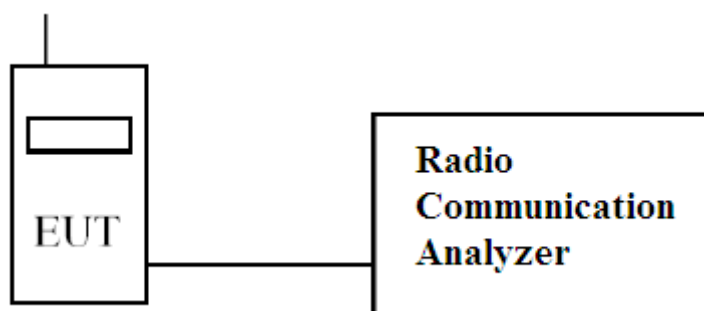
The maximum power levels are chosen in the LTE Band 2/4/5/12/13, only these modes were used for all tests.

1.4. Configuration of tested System

(a) Configuration of Radiated measurement



(b) Configuration of Conducted measurement



1.5. EUT Setup Procedures

- (1) Setup the EUT and simulators as shown on 1.3
- (2) Turn on the power of all equipments.
- (3) The EUT was set to communicate with MT8820C.
- (4) Repeat the above procedure (3).

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	22.5
Humidity (%RH)	25-75	52
Barometric pressure (mbar)	860-1060	985

The related certificate for our laboratories about the test site and management system can be downloaded from DEKRA Testing and Certification Co., Ltd. Web Site:

<http://www.dekra.com.tw/english/about/certificates.aspx?bval=5>

The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site: http://www.dekra.com.tw/index_en.aspx

Site Description: File on

Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046
FCC Registration Number :92195

File on

Certification and Engineering Bureau
3701 Carling Ave., Building 94
P.O. Box 11490, Station "H"
Ottawa, Ontario
K2H 8S2
File No.: 46405-4075
Test Site: IC 4075A-3
Submission: 103115

Site Name:

DEKRA Testing and Certification Co., Ltd

Site Address:

No.5-22, Ruishukeng, Linkou Dist., New Taipei City 24451,
Taiwan, R.O.C.
TEL : 886-2-8601-3788 / FAX : 886-2-8601-3789
E-Mail : info.tw@dekra.com

1.7. Type of Emission

Band	Bandwidth (MHz)	Modulation	
		QPSK	16QAM
2	1.4	1M10G7D	1M10W7D
2	3	2M74G7D	2M72W7D
2	5	4M51G7D	4M48W7D
2	10	9M08G7D	9M07W7D
2	15	13M5G7D	13M5W7D
2	20	18M6G7D	18M5W7D
4	1.4	1M10G7D	1M10W7D
4	3	2M74G7D	2M73W7D
4	5	4M50G7D	4M48W7D
4	10	9M05G7D	9M06W7D
4	15	13M5G7D	13M5W7D
4	20	18M5G7D	18M5W7D
5	1.4	1M10G7D	1M10W7D
5	3	2M74G7D	2M72W7D
5	5	4M51G7D	4M49W7D
5	10	9M09G7D	9M09W7D
12	1.4	1M10G7D	1M10W7D
12	3	2M73G7D	2M72W7D
12	5	4M49G7D	4M48W7D
12	10	9M02G7D	9M02W7D
13	5	4M52G7D	4M49W7D
13	10	9M09G7D	9M11W7D

1.8. Voltages and AC currents

LTE Band 2 (1.4M)	EUT Transmitting (in maximum power)	: AC voltage : 120V , AC current : 0.42A
	EUT Standby	: AC voltage : 120V , AC current : 0.24A
LTE Band 2 (3M)	EUT Transmitting (in maximum power)	: AC voltage : 120V , AC current : 0.43A
	EUT Standby	: AC voltage : 120V , AC current : 0.24A
LTE Band 2 (5M)	EUT Transmitting (in maximum power)	: AC voltage : 120V , AC current : 0.43A
	EUT Standby	: AC voltage : 120V , AC current : 0.24A
LTE Band 2 (10M)	EUT Transmitting (in maximum power)	: AC voltage : 120V , AC current : 0.44A
	EUT Standby	: AC voltage : 120V , AC current : 0.24A
LTE Band 2 (15M)	EUT Transmitting (in maximum power)	: AC voltage : 120V , AC current : 0.45A
	EUT Standby	: AC voltage : 120V , AC current : 0.24A
LTE Band 2 (20M)	EUT Transmitting (in maximum power)	: AC voltage : 120V , AC current : 0.46A
	EUT Standby	: AC voltage : 120V , AC current : 0.24A
LTE Band 4 (1.4M)	EUT Transmitting (in maximum power)	: AC voltage : 120V , AC current : 0.41A
	EUT Standby	: AC voltage : 120V , AC current : 0.24A
LTE Band 4 (3M)	EUT Transmitting (in maximum power)	: AC voltage : 120V , AC current : 0.42A
	EUT Standby	: AC voltage : 120V , AC current : 0.24A
LTE Band 4 (5M)	EUT Transmitting (in maximum power)	: AC voltage : 120V , AC current : 0.42A
	EUT Standby	: AC voltage : 120V , AC current : 0.24A
LTE Band 4 (10M)	EUT Transmitting (in maximum power)	: AC voltage : 120V , AC current : 0.43A
	EUT Standby	: AC voltage : 120V , AC current : 0.24A
LTE Band 4 (15M)	EUT Transmitting (in maximum power)	: AC voltage : 120V , AC current : 0.44A
	EUT Standby	: AC voltage : 120V , AC current : 0.24A
LTE Band 4 (20M)	EUT Transmitting (in maximum power)	: AC voltage : 120V , AC current : 0.44A
	EUT Standby	: AC voltage : 120V , AC current : 0.24A
LTE Band 5 (1.4M)	EUT Transmitting (in maximum power)	: AC voltage : 120V , AC current : 0.43A
	EUT Standby	: AC voltage : 120V , AC current : 0.24A
LTE Band 5 (3M)	EUT Transmitting (in maximum power)	: AC voltage : 120V , AC current : 0.44A
	EUT Standby	: AC voltage : 120V , AC current : 0.24A
LTE Band 5 (5M)	EUT Transmitting (in maximum power)	: AC voltage : 120V , AC current : 0.44A
	EUT Standby	: AC voltage : 120V , AC current : 0.24A
LTE Band 5 (10M)	EUT Transmitting (in maximum power)	: AC voltage : 120V , AC current : 0.44A
	EUT Standby	: AC voltage : 120V , AC current : 0.24A
LTE Band 12 (1.4M)	EUT Transmitting (in maximum power)	: AC voltage : 120V , AC current : 0.41A
	EUT Standby	: AC voltage : 120V , AC current : 0.24A
LTE Band 12 (3M)	EUT Transmitting (in maximum power)	: AC voltage : 120V , AC current : 0.41A
	EUT Standby	: AC voltage : 120V , AC current : 0.24A
LTE Band 12 (5M)	EUT Transmitting (in maximum power)	: AC voltage : 120V , AC current : 0.41A
	EUT Standby	: AC voltage : 120V , AC current : 0.24A
LTE Band 12 (10M)	EUT Transmitting (in maximum power)	: AC voltage : 120V , AC current : 0.43A
	EUT Standby	: AC voltage : 120V , AC current : 0.24A
LTE Band 13 (5M)	EUT Transmitting (in maximum power)	: AC voltage : 120V , AC current : 0.42A
	EUT Standby	: AC voltage : 120V , AC current : 0.24A
LTE Band 13 (10M)	EUT Transmitting (in maximum power)	: AC voltage : 120V , AC current : 0.42A
	EUT Standby	: AC voltage : 120V , AC current : 0.24A

2. Technical Test

2.1. Summary of test result

FCC Standard	IC Standard	Test Item	Result	Note
2.1046	RSS GEN	Conducted Output Power	Pass	
22.913(a)	RSS 132			
24.232(c)	RSS 133			
27.5	RSS 130/RSS 139			
2.1049	RSS GEN	Occupied Bandwidth	Pass	
22.917(a)	RSS 132			
24.238(b)	RSS 133			
27.53 (g, h, m(4))	RSS 130/RSS 139			
2.1051	RSS GEN	Spurious Emission at Antenna Terminals	Pass	
22.917(a)	RSS 132			
24.238(a)	RSS 133			
27.53 (g, h, m(4))	RSS 130/RSS 139			
2.1051	RSS GEN	Conducted Emission	Pass	
22.917(a)	RSS 132			
24.238(a)	RSS 133			
27.53 (g, h, m(4))	RSS 130/RSS 139			
2.1053	RSS GEN	Field Strength of Spurious Radiation	Pass	
22.917(a)	RSS 132			
24.238(a)	RSS 133			
27.53 (g, h, m(4))	RSS 130/RSS 139			
2.1055	RSS GEN	Frequency Stability for Temperature & Voltage	Pass	
22.355	RSS 132			
24.235	RSS 133			
27.54	RSS 130/RSS 139			
24.232(d)	RSS 133	Peak to Average Ratio	Pass	
27.50(a)	RSS 130/RSS 139			

2.2. List of test Equipment

Conducted /CTR

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Spectrum Analyzer	Agilent	N9010A	MY54510357	2017/04/26
Directional coupler	Agilent	87300C	MY44300353	2016/11/04
Directional coupler	Agilent	778D-012	50550	2017/07/08
Standard Temperature & Humidity Chamber	WIT	TH-1S-B	EQ-201-00146	2016/11/28
DC power supply	Agilent	E3610A	MY40009845	2016/07/14
Communication Tester	Agilent	MT8820C	6201091166	2017/03/28

Radiated / Site3

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Bilog Antenna	Schaffner Chase	CBL6112B	2705	2016/07/21
Horn Antenna	R&S	9120D	867	2017/04/28
Pre-Amplifier	Agilent	87405C	MY47010653	2016/08/11
Spectrum Analyzer	Agilent	N9010A	MY54510357	2017/04/26
Communication Tester	Agilent	MT8820C	6201091166	2017/03/28

2.3. Measurement Uncertainty

Conducted Emission

The measurement uncertainty of confidence of 95% is evaluated as ± 1.52 dB

Radiated Emission (Below 1GHz)

The measurement uncertainty of confidence of 95% is evaluated as ± 3.44 dB .

Radiated Emission (Above 1GHz)

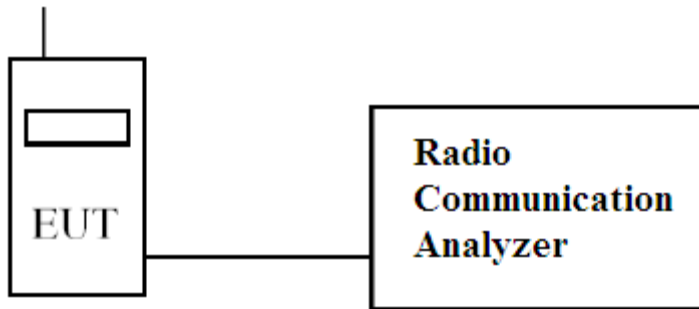
The measurement uncertainty of confidence of 95% is evaluated as ± 4.08 dB

3. Conducted Output Power Measurement

3.1. Test Specification

According to FCC Part 2.1046, 22.913, 24.232, 27.50
RSS GEN, RSS 130, RSS 132, RSS 133, RSS 139

3.2. Test Setup



3.3. Limits

Band	Limit
LTE Band 2/1900	<2W
LTE Band 4/1700	<1W
LTE Band 5/850	<7W
LTE Band 12/700	<3W
LTE Band 13/700	<3W

3.4. Test Procedure

The EUT is tested with maximum rated TX power via the Base Station simulator, and the output power was measured at the antenna terminals of the EUT.

3.5. Test Result of Maximum Power Output

Band	Channel	Modulation	RB No.	RB Offset	MPR	Max Power (dBm)	Max Power (W)
Band 2 (1900MHz)/1.4MHz	18607 1850.7MHz	QPSK	1	#0	0	23.00	0.1995
			1	#Mid	0	22.95	0.1972
			1	#Max	0	22.99	0.1991
			50%	#0	1	23.01	0.2000
			50%	#Mid	1	23.01	0.2000
			50%	#Max	1	23.01	0.2000
			100%	--	1	22.04	0.1600
		16QAM	1	#0	1	22.35	0.1718
			1	#Mid	1	22.31	0.1702
			1	#Max	1	22.32	0.1706
			50%	#0	2	22.21	0.1663
			50%	#Mid	2	22.14	0.1637
			50%	#Max	2	22.18	0.1652
			100%	--	2	21.17	0.1309
	18900 1880MHz	QPSK	1	#0	0	22.80	0.1905
			1	#Mid	0	22.79	0.1901
			1	#Max	0	22.82	0.1914
			50%	#0	1	22.81	0.1910
			50%	#Mid	1	22.84	0.1923
			50%	#Max	1	22.87	0.1936
			100%	--	1	21.90	0.1549
		16QAM	1	#0	1	22.25	0.1679
			1	#Mid	1	22.20	0.1660
			1	#Max	1	22.14	0.1637
			50%	#0	2	21.87	0.1538
			50%	#Mid	2	21.89	0.1545
			50%	#Max	2	21.98	0.1578
			100%	--	2	20.97	0.1250
	19193 1909.3MHz	QPSK	1	#0	0	23.02	0.2004
			1	#Mid	0	22.99	0.1991
1			#Max	0	22.99	0.1991	
50%			#0	1	23.00	0.1995	
50%			#Mid	1	22.99	0.1991	
50%			#Max	1	22.99	0.1991	
100%			--	1	22.00	0.1585	
16QAM		1	#0	1	22.32	0.1706	
		1	#Mid	1	22.34	0.1714	
		1	#Max	1	22.36	0.1722	
		50%	#0	2	22.17	0.1648	
		50%	#Mid	2	22.16	0.1644	
		50%	#Max	2	22.20	0.1660	
		100%	--	2	21.18	0.1312	

Band	Channel	Modulation	RB No.	RB Offset	MPR	Max Power (Conducted)	Max Power (W)
Band 2 (1900MHz)/3MHz	18615 1851.5MHz	QPSK	1	#0	0	23.01	0.2000
			1	#Mid	0	22.97	0.1982
			1	#Max	0	22.93	0.1963
			50%	#0	1	22.09	0.1618
			50%	#Mid	1	22.06	0.1607
			50%	#Max	1	22.05	0.1603
			100%	--	1	22.05	0.1603
		16QAM	1	#0	1	22.29	0.1694
			1	#Mid	1	22.23	0.1671
			1	#Max	1	22.22	0.1667
			50%	#0	2	21.15	0.1303
			50%	#Mid	2	21.08	0.1282
			50%	#Max	2	21.12	0.1294
			100%	--	2	21.16	0.1306
	18900 1880MHz	QPSK	1	#0	0	22.80	0.1905
			1	#Mid	0	22.82	0.1914
			1	#Max	0	22.78	0.1897
			50%	#0	1	21.97	0.1574
			50%	#Mid	1	21.87	0.1538
			50%	#Max	1	21.88	0.1542
			100%	--	1	21.89	0.1545
		16QAM	1	#0	1	22.19	0.1656
			1	#Mid	1	22.15	0.1641
			1	#Max	1	22.07	0.1611
			50%	#0	2	21.01	0.1262
			50%	#Mid	2	20.91	0.1233
			50%	#Max	2	20.92	0.1236
			100%	--	2	20.97	0.1250
	19185 1908.5MHz	QPSK	1	#0	0	23.01	0.2000
			1	#Mid	0	22.96	0.1977
			1	#Max	0	22.89	0.1945
			50%	#0	1	22.06	0.1607
			50%	#Mid	1	22.06	0.1607
			50%	#Max	1	22.02	0.1592
			100%	--	1	22.02	0.1592
		16QAM	1	#0	1	22.23	0.1671
1			#Mid	1	22.23	0.1671	
1			#Max	1	22.08	0.1614	
50%			#0	2	21.07	0.1279	
50%			#Mid	2	21.04	0.1271	
50%			#Max	2	21.05	0.1274	
100%			--	2	21.12	0.1294	

Band	Channel	Modulation	RB No.	RB Offset	MPR	Max Power (Conducted)	Max Power (W)
Band 2 (1900MHz)/5MHz	18625 1852.5MHz	QPSK	1	#0	0	23.02	0.2004
			1	#Mid	0	22.94	0.1968
			1	#Max	0	22.88	0.1941
			50%	#0	1	22.13	0.1633
			50%	#Mid	1	22.03	0.1596
			50%	#Max	1	21.98	0.1578
			100%	--	1	22.03	0.1596
		16QAM	1	#0	1	22.40	0.1738
			1	#Mid	1	22.28	0.1690
			1	#Max	1	22.18	0.1652
			50%	#0	2	21.14	0.1300
			50%	#Mid	2	21.06	0.1276
			50%	#Max	2	21.01	0.1262
			100%	--	2	21.04	0.1271
	18900 1880MHz	QPSK	1	#0	0	22.78	0.1897
			1	#Mid	0	22.74	0.1879
			1	#Max	0	22.62	0.1828
			50%	#0	1	21.87	0.1538
			50%	#Mid	1	21.77	0.1503
			50%	#Max	1	21.75	0.1496
			100%	--	1	21.80	0.1514
		16QAM	1	#0	1	22.15	0.1641
			1	#Mid	1	22.04	0.1600
			1	#Max	1	22.00	0.1585
			50%	#0	2	20.93	0.1239
			50%	#Mid	2	20.84	0.1213
			50%	#Max	2	20.83	0.1211
			100%	--	2	20.87	0.1222
	19175 1907.5MHz	QPSK	1	#0	0	22.92	0.1959
			1	#Mid	0	22.88	0.1941
1			#Max	0	22.78	0.1897	
50%			#0	1	21.99	0.1581	
50%			#Mid	1	21.92	0.1556	
50%			#Max	1	21.90	0.1549	
100%			--	1	21.96	0.1570	
16QAM		1	#0	1	22.30	0.1698	
		1	#Mid	1	22.25	0.1679	
		1	#Max	1	22.14	0.1637	
		50%	#0	2	21.10	0.1288	
		50%	#Mid	2	21.00	0.1259	
		50%	#Max	2	20.98	0.1253	
		100%	--	2	21.04	0.1271	

Band	Channel	Modulation	RB No.	RB Offset	MPR	Max Power (Conducted)	Max Power (W)
Band 2 (1900MHz)/10MHz	18650 1855MHz	QPSK	1	#0	0	23.27	0.2123
			1	#Mid	0	22.93	0.1963
			1	#Max	0	22.87	0.1936
			50%	#0	1	22.17	0.1648
			50%	#Mid	1	22.00	0.1585
			50%	#Max	1	21.96	0.1570
			100%	--	1	22.05	0.1603
		16QAM	1	#0	1	22.62	0.1828
			1	#Mid	1	22.29	0.1694
			1	#Max	1	22.20	0.1660
			50%	#0	2	21.18	0.1312
			50%	#Mid	2	21.05	0.1274
			50%	#Max	2	21.00	0.1259
			100%	--	2	21.14	0.1300
	18900 1880MHz	QPSK	1	#0	0	23.08	0.2032
			1	#Mid	0	22.72	0.1871
			1	#Max	0	22.74	0.1879
			50%	#0	1	22.00	0.1585
			50%	#Mid	1	21.86	0.1535
			50%	#Max	1	21.83	0.1524
			100%	--	1	21.91	0.1552
		16QAM	1	#0	1	22.42	0.1746
			1	#Mid	1	22.13	0.1633
			1	#Max	1	22.12	0.1629
			50%	#0	2	21.05	0.1274
			50%	#Mid	2	20.91	0.1233
			50%	#Max	2	20.86	0.1219
			100%	--	2	20.98	0.1253
	19150 1905MHz	QPSK	1	#0	0	23.21	0.2094
			1	#Mid	0	22.87	0.1936
1			#Max	0	22.92	0.1959	
50%			#0	1	22.13	0.1633	
50%			#Mid	1	21.96	0.1570	
50%			#Max	1	21.97	0.1574	
100%			--	1	22.08	0.1614	
16QAM		1	#0	1	22.61	0.1824	
		1	#Mid	1	22.23	0.1671	
		1	#Max	1	22.27	0.1687	
		50%	#0	2	21.15	0.1303	
		50%	#Mid	2	20.98	0.1253	
		50%	#Max	2	21.01	0.1262	
		100%	--	2	21.09	0.1285	

Band	Channel	Modulation	RB No.	RB Offset	MPR	Max Power (Conducted)	Max Power (W)
Band 2 (1900MHz)/15MHz	18675 1857.5MHz	QPSK	1	#0	0	23.56	0.2270
			1	#Mid	0	22.94	0.1968
			1	#Max	0	22.85	0.1928
			50%	#0	1	22.36	0.1722
			50%	#Mid	1	22.09	0.1618
			50%	#Max	1	22.02	0.1592
			100%	--	1	22.17	0.1648
		16QAM	1	#0	1	22.96	0.1977
			1	#Mid	1	22.36	0.1722
			1	#Max	1	22.26	0.1683
			50%	#0	2	21.43	0.1390
			50%	#Mid	2	21.18	0.1312
			50%	#Max	2	21.11	0.1291
			100%	--	2	21.20	0.1318
	18900 1880MHz	QPSK	1	#0	0	23.38	0.2178
			1	#Mid	0	22.81	0.1910
			1	#Max	0	22.90	0.1950
			50%	#0	1	22.21	0.1663
			50%	#Mid	1	21.96	0.1570
			50%	#Max	1	21.89	0.1545
			100%	--	1	22.08	0.1614
		16QAM	1	#0	1	22.80	0.1905
			1	#Mid	1	22.20	0.1660
			1	#Max	1	22.27	0.1687
			50%	#0	2	21.26	0.1337
			50%	#Mid	2	21.00	0.1259
			50%	#Max	2	20.98	0.1253
			100%	--	2	21.11	0.1291
	19125 1902.5MHz	QPSK	1	#0	0	23.50	0.2239
			1	#Mid	0	22.92	0.1959
1			#Max	0	23.03	0.2009	
50%			#0	1	22.32	0.1706	
50%			#Mid	1	22.08	0.1614	
50%			#Max	1	22.08	0.1614	
100%			--	1	22.22	0.1667	
16QAM		1	#0	1	22.86	0.1932	
		1	#Mid	1	22.32	0.1706	
		1	#Max	1	22.38	0.1730	
		50%	#0	2	21.33	0.1358	
		50%	#Mid	2	21.08	0.1282	
		50%	#Max	2	21.05	0.1274	
		100%	--	2	21.17	0.1309	

Band	Channel	Modulation	RB No.	RB Offset	MPR	Max Power (Conducted)	Max Power (W)
Band 2 (1900MHz)/20MHz	18700 1860MHz	QPSK	1	#0	0	23.07	0.2028
			1	#Mid	0	22.84	0.1923
			1	#Max	0	22.13	0.1633
			50%	#0	1	22.15	0.1641
			50%	#Mid	1	21.89	0.1545
			50%	#Max	1	21.63	0.1455
			100%	--	1	21.89	0.1545
		16QAM	1	#0	1	22.44	0.1754
			1	#Mid	1	22.20	0.1660
			1	#Max	1	21.49	0.1409
			50%	#0	2	21.19	0.1315
			50%	#Mid	2	20.95	0.1245
			50%	#Max	2	20.69	0.1172
			100%	--	2	20.90	0.1230
	18900 1880MHz	QPSK	1	#0	0	23.05	0.2018
			1	#Mid	0	22.62	0.1828
			1	#Max	0	22.25	0.1679
			50%	#0	1	22.06	0.1607
			50%	#Mid	1	21.79	0.1510
			50%	#Max	1	21.65	0.1462
			100%	--	1	21.89	0.1545
		16QAM	1	#0	1	22.47	0.1766
			1	#Mid	1	22.05	0.1603
			1	#Max	1	21.70	0.1479
			50%	#0	2	21.13	0.1297
			50%	#Mid	2	20.84	0.1213
			50%	#Max	2	20.72	0.1180
			100%	--	2	20.92	0.1236
	19100 1900MHz	QPSK	1	#0	0	23.35	0.2163
			1	#Mid	0	22.76	0.1888
1			#Max	0	22.70	0.1862	
50%			#0	1	22.25	0.1679	
50%			#Mid	1	21.99	0.1581	
50%			#Max	1	21.93	0.1560	
100%			--	1	22.14	0.1637	
16QAM		1	#0	1	22.76	0.1888	
		1	#Mid	1	22.19	0.1656	
		1	#Max	1	22.10	0.1622	
		50%	#0	2	21.31	0.1352	
		50%	#Mid	2	21.00	0.1259	
		50%	#Max	2	20.99	0.1256	
		100%	--	2	21.13	0.1297	

Band	Channel	Modulation	RB No.	RB Offset	MPR	Max Power (dBm)	Max Power (W)
Band 4 (1700MHz)/1.4MHz	19957 1710.7MHz	QPSK	1	#0	0	22.77	0.1892
			1	#Mid	0	22.73	0.1875
			1	#Max	0	22.76	0.1888
			50%	#0	1	22.80	0.1905
			50%	#Mid	1	22.79	0.1901
			50%	#Max	1	22.79	0.1901
			100%	--	1	21.82	0.1521
		16QAM	1	#0	1	22.15	0.1641
			1	#Mid	1	22.12	0.1629
			1	#Max	1	22.11	0.1626
			50%	#0	2	21.94	0.1563
			50%	#Mid	2	21.92	0.1556
			50%	#Max	2	21.91	0.1552
			100%	--	2	20.93	0.1239
	20175 1732.5MHz	QPSK	1	#0	0	22.77	0.1892
			1	#Mid	0	22.75	0.1884
			1	#Max	0	22.75	0.1884
			50%	#0	1	22.83	0.1919
			50%	#Mid	1	22.80	0.1905
			50%	#Max	1	22.80	0.1905
			100%	--	1	21.84	0.1528
		16QAM	1	#0	1	22.16	0.1644
			1	#Mid	1	22.13	0.1633
			1	#Max	1	22.09	0.1618
			50%	#0	2	21.94	0.1563
			50%	#Mid	2	21.91	0.1552
			50%	#Max	2	21.92	0.1556
			100%	--	2	20.93	0.1239
	20393 1754.3MHz	QPSK	1	#0	0	22.65	0.1841
			1	#Mid	0	22.65	0.1841
1			#Max	0	22.66	0.1845	
50%			#0	1	22.71	0.1866	
50%			#Mid	1	22.72	0.1871	
50%			#Max	1	22.70	0.1862	
100%			--	1	21.72	0.1486	
16QAM		1	#0	1	22.13	0.1633	
		1	#Mid	1	22.10	0.1622	
		1	#Max	1	22.12	0.1629	
		50%	#0	2	21.90	0.1549	
		50%	#Mid	2	21.83	0.1524	
		50%	#Max	2	21.77	0.1503	
		100%	--	2	20.82	0.1208	

Band	Channel	Modulation	RB No.	RB Offset	MPR	Max Power (Conducted)	Max Power (W)
Band 4 (1700MHz)/3MHz	19965 1711.5MHz	QPSK	1	#0	0	22.78	0.1897
			1	#Mid	0	22.72	0.1871
			1	#Max	0	22.70	0.1862
			50%	#0	1	21.85	0.1531
			50%	#Mid	1	21.85	0.1531
			50%	#Max	1	21.82	0.1521
			100%	--	1	21.84	0.1528
		16QAM	1	#0	1	22.16	0.1644
			1	#Mid	1	22.21	0.1663
			1	#Max	1	22.07	0.1611
			50%	#0	2	20.95	0.1245
			50%	#Mid	2	20.92	0.1236
			50%	#Max	2	20.93	0.1239
			100%	--	2	20.97	0.1250
	20175 1732.5MHz	QPSK	1	#0	0	22.76	0.1888
			1	#Mid	0	22.67	0.1849
			1	#Max	0	22.67	0.1849
			50%	#0	1	21.84	0.1528
			50%	#Mid	1	21.81	0.1517
			50%	#Max	1	21.78	0.1507
			100%	--	1	21.81	0.1517
		16QAM	1	#0	1	22.17	0.1648
			1	#Mid	1	22.07	0.1611
			1	#Max	1	21.99	0.1581
			50%	#0	2	20.94	0.1242
			50%	#Mid	2	20.83	0.1211
			50%	#Max	2	20.92	0.1236
			100%	--	2	20.92	0.1236
	20385 1753.5MHz	QPSK	1	#0	0	22.69	0.1858
			1	#Mid	0	22.66	0.1845
1			#Max	0	22.62	0.1828	
50%			#0	1	21.76	0.1500	
50%			#Mid	1	21.73	0.1489	
50%			#Max	1	21.72	0.1486	
100%			--	1	21.74	0.1493	
16QAM		1	#0	1	22.06	0.1607	
		1	#Mid	1	22.00	0.1585	
		1	#Max	1	21.93	0.1560	
		50%	#0	2	20.82	0.1208	
		50%	#Mid	2	20.76	0.1191	
		50%	#Max	2	20.77	0.1194	
		100%	--	2	20.81	0.1205	

Band	Channel	Modulation	RB No.	RB Offset	MPR	Max Power (Conducted)	Max Power (W)
Band 4 (1700MHz)/5MHz	19975 1712.5MHz	QPSK	1	#0	0	22.83	0.1919
			1	#Mid	0	22.69	0.1858
			1	#Max	0	22.67	0.1849
			50%	#0	1	21.91	0.1552
			50%	#Mid	1	21.84	0.1528
			50%	#Max	1	21.82	0.1521
			100%	--	1	21.86	0.1535
		16QAM	1	#0	1	22.25	0.1679
			1	#Mid	1	22.11	0.1626
			1	#Max	1	22.05	0.1603
			50%	#0	2	20.96	0.1247
			50%	#Mid	2	20.87	0.1222
			50%	#Max	2	20.86	0.1219
			100%	--	2	20.87	0.1222
	20175 1732.5MHz	QPSK	1	#0	0	22.81	0.1910
			1	#Mid	0	22.66	0.1845
			1	#Max	0	22.59	0.1816
			50%	#0	1	21.85	0.1531
			50%	#Mid	1	21.77	0.1503
			50%	#Max	1	21.74	0.1493
			100%	--	1	21.75	0.1496
		16QAM	1	#0	1	22.22	0.1667
			1	#Mid	1	22.07	0.1611
			1	#Max	1	21.97	0.1574
			50%	#0	2	20.92	0.1236
			50%	#Mid	2	20.83	0.1211
			50%	#Max	2	20.75	0.1189
			100%	--	2	20.84	0.1213
	20375 1752.5MHz	QPSK	1	#0	0	22.72	0.1871
			1	#Mid	0	22.62	0.1828
1			#Max	0	22.54	0.1795	
50%			#0	1	21.78	0.1507	
50%			#Mid	1	21.70	0.1479	
50%			#Max	1	21.67	0.1469	
100%			--	1	21.69	0.1476	
16QAM		1	#0	1	22.12	0.1629	
		1	#Mid	1	21.98	0.1578	
		1	#Max	1	21.94	0.1563	
		50%	#0	2	20.88	0.1225	
		50%	#Mid	2	20.79	0.1199	
		50%	#Max	2	20.75	0.1189	
		100%	--	2	20.79	0.1199	

Band	Channel	Modulation	RB No.	RB Offset	MPR	Max Power (Conducted)	Max Power (W)
Band 4 (1700MHz)/10MHz	20000 1715MHz	QPSK	1	#0	0	23.08	0.2032
			1	#Mid	0	22.77	0.1892
			1	#Max	0	22.75	0.1884
			50%	#0	1	21.98	0.1578
			50%	#Mid	1	21.82	0.1521
			50%	#Max	1	21.76	0.1500
			100%	--	1	21.86	0.1535
		16QAM	1	#0	1	22.38	0.1730
			1	#Mid	1	22.14	0.1637
			1	#Max	1	22.08	0.1614
			50%	#0	2	21.02	0.1265
			50%	#Mid	2	20.88	0.1225
			50%	#Max	2	20.84	0.1213
			100%	--	2	20.91	0.1233
	20175 1732.5MHz	QPSK	1	#0	0	23.03	0.2009
			1	#Mid	0	22.66	0.1845
			1	#Max	0	22.60	0.1820
			50%	#0	1	21.90	0.1549
			50%	#Mid	1	21.74	0.1493
			50%	#Max	1	21.70	0.1479
			100%	--	1	21.80	0.1514
		16QAM	1	#0	1	22.37	0.1726
			1	#Mid	1	22.02	0.1592
			1	#Max	1	21.96	0.1570
			50%	#0	2	20.98	0.1253
			50%	#Mid	2	20.83	0.1211
			50%	#Max	2	20.78	0.1197
			100%	--	2	20.86	0.1219
	20350 1750MHz	QPSK	1	#0	0	23.00	0.1995
			1	#Mid	0	22.61	0.1824
			1	#Max	0	22.61	0.1824
			50%	#0	1	21.86	0.1535
			50%	#Mid	1	21.70	0.1479
50%			#Max	1	21.64	0.1459	
100%			--	1	21.76	0.1500	
16QAM		1	#0	1	22.34	0.1714	
		1	#Mid	1	22.00	0.1585	
		1	#Max	1	21.97	0.1574	
		50%	#0	2	20.94	0.1242	
		50%	#Mid	2	20.76	0.1191	
		50%	#Max	2	20.73	0.1183	
		100%	--	2	20.81	0.1205	

Band	Channel	Modulation	RB No.	RB Offset	MPR	Max Power (Conducted)	Max Power (W)
Band 4 (1700MHz)/15MHz	20025 1717.5MHz	QPSK	1	#0	0	23.09	0.2037
			1	#Mid	0	22.71	0.1866
			1	#Max	0	22.55	0.1799
			50%	#0	1	22.04	0.1600
			50%	#Mid	1	21.87	0.1538
			50%	#Max	1	21.78	0.1507
			100%	--	1	21.92	0.1556
		16QAM	1	#0	1	22.51	0.1782
			1	#Mid	1	22.19	0.1656
			1	#Max	1	22.05	0.1603
			50%	#0	2	21.17	0.1309
			50%	#Mid	2	20.93	0.1239
			50%	#Max	2	20.86	0.1219
			100%	--	2	20.90	0.1230
	20175 1732.5MHz	QPSK	1	#0	0	23.27	0.2123
			1	#Mid	0	22.65	0.1841
			1	#Max	0	22.64	0.1837
			50%	#0	1	22.10	0.1622
			50%	#Mid	1	21.82	0.1521
			50%	#Max	1	21.78	0.1507
			100%	--	1	21.90	0.1549
		16QAM	1	#0	1	22.71	0.1866
			1	#Mid	1	22.07	0.1611
			1	#Max	1	22.08	0.1614
			50%	#0	2	21.13	0.1297
			50%	#Mid	2	20.84	0.1213
			50%	#Max	2	20.80	0.1202
			100%	--	2	20.92	0.1236
	20325 1747.5MHz	QPSK	1	#0	0	22.96	0.1977
			1	#Mid	0	22.61	0.1824
			1	#Max	0	22.37	0.1726
			50%	#0	1	21.94	0.1563
			50%	#Mid	1	21.74	0.1493
			50%	#Max	1	21.63	0.1455
			100%	--	1	21.78	0.1507
		16QAM	1	#0	1	22.41	0.1742
1			#Mid	1	22.05	0.1603	
1			#Max	1	21.84	0.1528	
50%			#0	2	20.98	0.1253	
50%			#Mid	2	20.78	0.1197	
50%			#Max	2	20.69	0.1172	
100%			--	2	20.80	0.1202	

Band	Channel	Modulation	RB No.	RB Offset	MPR	Max Power (Conducted)	Max Power (W)
Band 4 (1700MHz)/20MHz	20050 1720MHz	QPSK	1	#0	0	23.00	0.1995
			1	#Mid	0	22.58	0.1811
			1	#Max	0	22.21	0.1663
			50%	#0	1	22.03	0.1596
			50%	#Mid	1	21.76	0.1500
			50%	#Max	1	21.67	0.1469
			100%	--	1	21.89	0.1545
		16QAM	1	#0	1	22.41	0.1742
			1	#Mid	1	22.01	0.1589
			1	#Max	1	21.62	0.1452
			50%	#0	2	21.06	0.1276
			50%	#Mid	2	20.78	0.1197
			50%	#Max	2	20.64	0.1159
			100%	--	2	20.83	0.1211
	20175 1732.5MHz	QPSK	1	#0	0	23.32	0.2148
			1	#Mid	0	22.53	0.1791
			1	#Max	0	22.41	0.1742
			50%	#0	1	22.15	0.1641
			50%	#Mid	1	21.75	0.1496
			50%	#Max	1	21.71	0.1483
			100%	--	1	21.93	0.1560
		16QAM	1	#0	1	22.71	0.1866
			1	#Mid	1	21.91	0.1552
			1	#Max	1	21.84	0.1528
			50%	#0	2	21.18	0.1312
			50%	#Mid	2	20.83	0.1211
			50%	#Max	2	20.76	0.1191
			100%	--	2	20.93	0.1239
	20300 1745MHz	QPSK	1	#0	0	23.21	0.2094
			1	#Mid	0	22.50	0.1778
1			#Max	0	22.31	0.1702	
50%			#0	1	22.08	0.1614	
50%			#Mid	1	21.70	0.1479	
50%			#Max	1	21.64	0.1459	
100%			--	1	21.88	0.1542	
16QAM		1	#0	1	22.60	0.1820	
		1	#Mid	1	21.87	0.1538	
		1	#Max	1	21.70	0.1479	
		50%	#0	2	21.11	0.1291	
		50%	#Mid	2	20.75	0.1189	
		50%	#Max	2	20.68	0.1169	
		100%	--	2	20.90	0.1230	

Band	Channel	Modulation	RB No.	RB Offset	MPR	Max Power (dBm)	Max Power (W)
Band 5 (850MHz)/1.4MHz	20407 824.7MHz	QPSK	1	#0	0	23.00	0.1995
			1	#Mid	0	22.95	0.1972
			1	#Max	0	22.99	0.1991
			50%	#0	1	23.01	0.2000
			50%	#Mid	1	23.01	0.2000
			50%	#Max	1	23.01	0.2000
			100%	--	1	22.04	0.1600
		16QAM	1	#0	1	22.35	0.1718
			1	#Mid	1	22.31	0.1702
			1	#Max	1	22.32	0.1706
			50%	#0	2	22.21	0.1663
			50%	#Mid	2	22.14	0.1637
			50%	#Max	2	22.18	0.1652
			100%	--	2	21.17	0.1309
	20525 836.5MHz	QPSK	1	#0	0	22.80	0.1905
			1	#Mid	0	22.79	0.1901
			1	#Max	0	22.82	0.1914
			50%	#0	1	22.81	0.1910
			50%	#Mid	1	22.84	0.1923
			50%	#Max	1	22.87	0.1936
			100%	--	1	21.90	0.1549
		16QAM	1	#0	1	22.25	0.1679
			1	#Mid	1	22.20	0.1660
			1	#Max	1	22.14	0.1637
			50%	#0	2	21.87	0.1538
			50%	#Mid	2	21.89	0.1545
			50%	#Max	2	21.98	0.1578
			100%	--	2	20.97	0.1250
	20643 848.3MHz	QPSK	1	#0	0	23.02	0.2004
			1	#Mid	0	22.99	0.1991
1			#Max	0	22.99	0.1991	
50%			#0	1	23.00	0.1995	
50%			#Mid	1	22.99	0.1991	
50%			#Max	1	22.99	0.1991	
100%			--	1	22.00	0.1585	
16QAM		1	#0	1	22.32	0.1706	
		1	#Mid	1	22.34	0.1714	
		1	#Max	1	22.36	0.1722	
		50%	#0	2	22.17	0.1648	
		50%	#Mid	2	22.16	0.1644	
		50%	#Max	2	22.20	0.1660	
		100%	--	2	21.18	0.1312	

Band	Channel	Modulation	RB No.	RB Offset	MPR	Max Power (Conducted)	Max Power (W)
Band 5 (850MHz)/3MHz	20415 825.5MHz	QPSK	1	#0	0	23.39	0.2183
			1	#Mid	0	23.37	0.2173
			1	#Max	0	23.34	0.2158
			50%	#0	1	22.39	0.1734
			50%	#Mid	1	22.40	0.1738
			50%	#Max	1	22.36	0.1722
			100%	--	1	22.41	0.1742
		16QAM	1	#0	1	22.72	0.1871
			1	#Mid	1	22.66	0.1845
			1	#Max	1	22.63	0.1832
			50%	#0	2	21.51	0.1416
			50%	#Mid	2	21.50	0.1413
			50%	#Max	2	21.50	0.1413
			100%	--	2	21.55	0.1429
	20525 836.5MHz	QPSK	1	#0	0	23.20	0.2089
			1	#Mid	0	23.17	0.2075
			1	#Max	0	23.13	0.2056
			50%	#0	1	22.21	0.1663
			50%	#Mid	1	22.23	0.1671
			50%	#Max	1	22.23	0.1671
			100%	--	1	22.23	0.1671
		16QAM	1	#0	1	22.47	0.1766
			1	#Mid	1	22.50	0.1778
			1	#Max	1	22.43	0.1750
			50%	#0	2	21.34	0.1361
			50%	#Mid	2	21.32	0.1355
			50%	#Max	2	21.32	0.1355
			100%	--	2	21.35	0.1365
	20635 847.5MHz	QPSK	1	#0	0	23.11	0.2046
			1	#Mid	0	23.11	0.2046
1			#Max	0	23.06	0.2023	
50%			#0	1	22.10	0.1622	
50%			#Mid	1	22.14	0.1637	
50%			#Max	1	22.06	0.1607	
100%			--	1	22.10	0.1622	
16QAM		1	#0	1	22.35	0.1718	
		1	#Mid	1	22.42	0.1746	
		1	#Max	1	22.27	0.1687	
		50%	#0	2	21.22	0.1324	
		50%	#Mid	2	21.17	0.1309	
		50%	#Max	2	21.19	0.1315	
		100%	--	2	21.22	0.1324	

Band	Channel	Modulation	RB No.	RB Offset	MPR	Max Power (Conducted)	Max Power (W)
Band 5 (850MHz)/5MHz	20425 826.5MHz	QPSK	1	#0	0	23.35	0.2163
			1	#Mid	0	23.35	0.2163
			1	#Max	0	23.23	0.2104
			50%	#0	1	22.42	0.1746
			50%	#Mid	1	22.41	0.1742
			50%	#Max	1	22.36	0.1722
			100%	--	1	22.37	0.1726
		16QAM	1	#0	1	22.74	0.1879
			1	#Mid	1	22.71	0.1866
			1	#Max	1	22.57	0.1807
			50%	#0	2	21.53	0.1422
			50%	#Mid	2	21.51	0.1416
			50%	#Max	2	21.45	0.1396
			100%	--	2	21.42	0.1387
	20525 836.5MHz	QPSK	1	#0	0	23.25	0.2113
			1	#Mid	0	23.20	0.2089
			1	#Max	0	23.12	0.2051
			50%	#0	1	22.28	0.1690
			50%	#Mid	1	22.22	0.1667
			50%	#Max	1	22.16	0.1644
			100%	--	1	22.21	0.1663
		16QAM	1	#0	1	22.59	0.1816
			1	#Mid	1	22.57	0.1807
			1	#Max	1	22.46	0.1762
			50%	#0	2	21.38	0.1374
			50%	#Mid	2	21.31	0.1352
			50%	#Max	2	21.27	0.1340
			100%	--	2	21.29	0.1346
	20625 846.5MHz	QPSK	1	#0	0	23.10	0.2042
			1	#Mid	0	23.08	0.2032
1			#Max	0	22.96	0.1977	
50%			#0	1	22.09	0.1618	
50%			#Mid	1	22.05	0.1603	
50%			#Max	1	22.04	0.1600	
100%			--	1	22.06	0.1607	
16QAM		1	#0	1	22.36	0.1722	
		1	#Mid	1	22.42	0.1746	
		1	#Max	1	22.31	0.1702	
		50%	#0	2	21.19	0.1315	
		50%	#Mid	2	21.15	0.1303	
		50%	#Max	2	21.11	0.1291	
		100%	--	2	21.14	0.1300	

Band	Channel	Modulation	RB No.	RB Offset	MPR	Max Power (Conducted)	Max Power (W)
Band 5 (850MHz)/10MHz	20450 829MHz	QPSK	1	#0	0	23.36	0.2168
			1	#Mid	0	23.30	0.2138
			1	#Max	0	23.06	0.2023
			50%	#0	1	22.37	0.1726
			50%	#Mid	1	22.30	0.1698
			50%	#Max	1	22.23	0.1671
			100%	--	1	22.32	0.1706
		16QAM	1	#0	1	22.73	0.1875
			1	#Mid	1	22.73	0.1875
			1	#Max	1	22.45	0.1758
			50%	#0	2	21.45	0.1396
			50%	#Mid	2	21.41	0.1384
			50%	#Max	2	21.33	0.1358
			100%	--	2	21.38	0.1374
	20525 836.5MHz	QPSK	1	#0	0	23.31	0.2143
			1	#Mid	0	23.17	0.2075
			1	#Max	0	22.98	0.1986
			50%	#0	1	22.27	0.1687
			50%	#Mid	1	22.18	0.1652
			50%	#Max	1	22.16	0.1644
			100%	--	1	22.18	0.1652
		16QAM	1	#0	1	22.61	0.1824
			1	#Mid	1	22.52	0.1786
			1	#Max	1	22.32	0.1706
			50%	#0	2	21.35	0.1365
			50%	#Mid	2	21.30	0.1349
			50%	#Max	2	21.16	0.1306
			100%	--	2	21.28	0.1343
	20600 844MHz	QPSK	1	#0	0	23.19	0.2084
			1	#Mid	0	23.10	0.2042
1			#Max	0	22.95	0.1972	
50%			#0	1	22.14	0.1637	
50%			#Mid	1	22.10	0.1622	
50%			#Max	1	22.04	0.1600	
100%			--	1	22.12	0.1629	
16QAM		1	#0	1	22.52	0.1786	
		1	#Mid	1	22.43	0.1750	
		1	#Max	1	22.28	0.1690	
		50%	#0	2	21.18	0.1312	
		50%	#Mid	2	21.13	0.1297	
		50%	#Max	2	21.06	0.1276	
		100%	--	2	21.16	0.1306	

Band	Channel	Modulation	RB No.	RB Offset	MPR	Max Power (Conducted)	Max Power (W)
Band 12 (700MHz)/1.4MHz	23017 699.7MHz	QPSK	1	#0	0	23.17	0.2075
			1	#Mid	0	23.15	0.2065
			1	#Max	0	23.21	0.2094
			50%	#0	1	23.15	0.2065
			50%	#Mid	1	23.16	0.2070
			50%	#Max	1	23.20	0.2089
			100%	--	1	22.25	0.1679
		16QAM	1	#0	1	22.57	0.1807
			1	#Mid	1	22.56	0.1803
			1	#Max	1	22.62	0.1828
			50%	#0	2	22.40	0.1738
			50%	#Mid	2	22.41	0.1742
			50%	#Max	2	22.39	0.1734
			100%	--	2	21.29	0.1346
	23095 707.5MHz	QPSK	1	#0	0	23.05	0.2018
			1	#Mid	0	23.02	0.2004
			1	#Max	0	23.06	0.2023
			50%	#0	1	23.07	0.2028
			50%	#Mid	1	23.06	0.2023
			50%	#Max	1	23.04	0.2014
			100%	--	1	22.11	0.1626
		16QAM	1	#0	1	22.41	0.1742
			1	#Mid	1	22.39	0.1734
			1	#Max	1	22.41	0.1742
			50%	#0	2	22.25	0.1679
			50%	#Mid	2	22.26	0.1683
			50%	#Max	2	22.26	0.1683
			100%	--	2	21.16	0.1306
	23173 715.3MHz	QPSK	1	#0	0	23.08	0.2032
			1	#Mid	0	23.08	0.2032
			1	#Max	0	23.10	0.2042
			50%	#0	1	23.04	0.2014
			50%	#Mid	1	23.08	0.2032
			50%	#Max	1	23.08	0.2032
			100%	--	1	22.16	0.1644
		16QAM	1	#0	1	22.53	0.1791
1			#Mid	1	22.49	0.1774	
1			#Max	1	22.45	0.1758	
50%			#0	2	22.26	0.1683	
50%			#Mid	2	22.26	0.1683	
50%			#Max	2	22.27	0.1687	
100%			--	2	21.22	0.1324	

Band	Channel	Modulation	RB No.	RB Offset	MPR	Max Power (Conducted)	Max Power (W)
Band 12 (700MHz)/3MHz	23025 700.5MHz	QPSK	1	#0	0	23.17	0.2075
			1	#Mid	0	23.19	0.2084
			1	#Max	0	23.10	0.2042
			50%	#0	1	22.22	0.1667
			50%	#Mid	1	22.19	0.1656
			50%	#Max	1	22.19	0.1656
			100%	--	1	22.21	0.1663
		16QAM	1	#0	1	22.52	0.1786
			1	#Mid	1	22.53	0.1791
			1	#Max	1	22.40	0.1738
			50%	#0	2	21.26	0.1337
			50%	#Mid	2	21.26	0.1337
			50%	#Max	2	21.24	0.1330
			100%	--	2	21.29	0.1346
	23095 707.5MHz	QPSK	1	#0	0	23.06	0.2023
			1	#Mid	0	23.04	0.2014
			1	#Max	0	23.00	0.1995
			50%	#0	1	22.12	0.1629
			50%	#Mid	1	22.13	0.1633
			50%	#Max	1	22.11	0.1626
			100%	--	1	22.13	0.1633
		16QAM	1	#0	1	22.35	0.1718
			1	#Mid	1	22.44	0.1754
			1	#Max	1	22.29	0.1694
			50%	#0	2	21.15	0.1303
			50%	#Mid	2	21.14	0.1300
			50%	#Max	2	21.15	0.1303
			100%	--	2	21.19	0.1315
	23165 714.5MHz	QPSK	1	#0	0	23.03	0.2009
			1	#Mid	0	23.03	0.2009
1			#Max	0	23.01	0.2000	
50%			#0	1	22.12	0.1629	
50%			#Mid	1	22.12	0.1629	
50%			#Max	1	22.05	0.1603	
100%			--	1	22.12	0.1629	
16QAM		1	#0	1	22.40	0.1738	
		1	#Mid	1	22.38	0.1730	
		1	#Max	1	22.34	0.1714	
		50%	#0	2	21.17	0.1309	
		50%	#Mid	2	21.13	0.1297	
		50%	#Max	2	21.14	0.1300	
		100%	--	2	21.15	0.1303	

Band	Channel	Modulation	RB No.	RB Offset	MPR	Max Power (Conducted)	Max Power (W)
Band 12 (700MHz)/5MHz	23035 701.5MHz	QPSK	1	#0	0	23.12	0.2051
			1	#Mid	0	23.11	0.2046
			1	#Max	0	23.02	0.2004
			50%	#0	1	22.22	0.1667
			50%	#Mid	1	22.18	0.1652
			50%	#Max	1	22.19	0.1656
			100%	--	1	22.19	0.1656
		16QAM	1	#0	1	22.57	0.1807
			1	#Mid	1	22.54	0.1795
			1	#Max	1	22.43	0.1750
			50%	#0	2	21.26	0.1337
			50%	#Mid	2	21.30	0.1349
			50%	#Max	2	21.25	0.1334
			100%	--	2	21.23	0.1327
	23095 707.5MHz	QPSK	1	#0	0	23.02	0.2004
			1	#Mid	0	23.03	0.2009
			1	#Max	0	23.01	0.2000
			50%	#0	1	22.17	0.1648
			50%	#Mid	1	22.13	0.1633
			50%	#Max	1	22.10	0.1622
			100%	--	1	22.07	0.1611
		16QAM	1	#0	1	22.42	0.1746
			1	#Mid	1	22.36	0.1722
			1	#Max	1	22.36	0.1722
			50%	#0	2	21.12	0.1294
			50%	#Mid	2	21.14	0.1300
			50%	#Max	2	21.08	0.1282
			100%	--	2	21.08	0.1282
	23155 713.5MHz	QPSK	1	#0	0	22.92	0.1959
			1	#Mid	0	23.02	0.2004
1			#Max	0	22.89	0.1945	
50%			#0	1	22.09	0.1618	
50%			#Mid	1	22.07	0.1611	
50%			#Max	1	22.05	0.1603	
100%			--	1	22.07	0.1611	
16QAM		1	#0	1	22.34	0.1714	
		1	#Mid	1	22.35	0.1718	
		1	#Max	1	22.30	0.1698	
		50%	#0	2	21.17	0.1309	
		50%	#Mid	2	21.14	0.1300	
		50%	#Max	2	21.12	0.1294	
		100%	--	2	21.12	0.1294	

Band	Channel	Modulation	RB No.	RB Offset	MPR	Max Power (Conducted)	Max Power (W)
Band 12 (700MHz)/10MHz	23060 704MHz	QPSK	1	#0	0	23.07	0.2028
			1	#Mid	0	23.05	0.2018
			1	#Max	0	22.84	0.1923
			50%	#0	1	22.15	0.1641
			50%	#Mid	1	22.11	0.1626
			50%	#Max	1	22.07	0.1611
			100%	--	1	22.14	0.1637
		16QAM	1	#0	1	22.48	0.1770
			1	#Mid	1	22.47	0.1766
			1	#Max	1	22.25	0.1679
			50%	#0	2	21.23	0.1327
			50%	#Mid	2	21.19	0.1315
			50%	#Max	2	21.14	0.1300
			100%	--	2	21.12	0.1294
	23095 707.5MHz	QPSK	1	#0	0	23.01	0.2000
			1	#Mid	0	22.99	0.1991
			1	#Max	0	22.89	0.1945
			50%	#0	1	22.00	0.1585
			50%	#Mid	1	22.05	0.1603
			50%	#Max	1	22.04	0.1600
			100%	--	1	22.06	0.1607
		16QAM	1	#0	1	22.39	0.1734
			1	#Mid	1	22.32	0.1706
			1	#Max	1	22.19	0.1656
			50%	#0	2	21.16	0.1306
			50%	#Mid	2	21.11	0.1291
			50%	#Max	2	21.08	0.1282
			100%	--	2	21.09	0.1285
	23130 711MHz	QPSK	1	#0	0	23.05	0.2018
			1	#Mid	0	23.02	0.2004
			1	#Max	0	23.01	0.2000
			50%	#0	1	22.14	0.1637
			50%	#Mid	1	22.10	0.1622
			50%	#Max	1	22.09	0.1618
			100%	--	1	22.12	0.1629
		16QAM	1	#0	1	22.43	0.1750
1			#Mid	1	22.39	0.1734	
1			#Max	1	22.41	0.1742	
50%			#0	2	21.17	0.1309	
50%			#Mid	2	21.15	0.1303	
50%			#Max	2	21.11	0.1291	
100%			--	2	21.16	0.1306	

Band	Channel	Modulation	RB No.	RB Offset	MPR	Max Power (Conducted)	Max Power (W)
Band 13 (700MHz)/5MHz	23205 779.5MHz	QPSK	1	#0	0	23.04	0.2014
			1	#Mid	0	23.08	0.2032
			1	#Max	0	23.00	0.1995
			50%	#0	1	22.09	0.1618
			50%	#Mid	1	22.09	0.1618
			50%	#Max	1	22.08	0.1614
			100%	--	1	22.12	0.1629
		16QAM	1	#0	1	22.37	0.1726
			1	#Mid	1	22.45	0.1758
			1	#Max	1	22.38	0.1730
			50%	#0	2	21.18	0.1312
			50%	#Mid	2	21.20	0.1318
			50%	#Max	2	21.22	0.1324
			100%	--	2	21.19	0.1315
	23230 782MHz	QPSK	1	#0	0	23.10	0.2042
			1	#Mid	0	23.14	0.2061
			1	#Max	0	22.96	0.1977
			50%	#0	1	22.17	0.1648
			50%	#Mid	1	22.14	0.1637
			50%	#Max	1	22.12	0.1629
			100%	--	1	22.12	0.1629
		16QAM	1	#0	1	22.46	0.1762
			1	#Mid	1	22.47	0.1766
			1	#Max	1	22.41	0.1742
			50%	#0	2	21.24	0.1330
			50%	#Mid	2	21.26	0.1337
			50%	#Max	2	21.24	0.1330
			100%	--	2	21.19	0.1315
	23255 784.5MHz	QPSK	1	#0	0	23.13	0.2056
			1	#Mid	0	23.05	0.2018
			1	#Max	0	22.95	0.1972
			50%	#0	1	22.17	0.1648
			50%	#Mid	1	22.11	0.1626
			50%	#Max	1	22.05	0.1603
			100%	--	1	22.06	0.1607
		16QAM	1	#0	1	22.50	0.1778
1			#Mid	1	22.44	0.1754	
1			#Max	1	22.26	0.1683	
50%			#0	2	21.29	0.1346	
50%			#Mid	2	21.21	0.1321	
50%			#Max	2	21.14	0.1300	
100%			--	2	21.21	0.1321	

Band	Channel	Modulation	RB No.	RB Offset	MPR	Max Power (Conducted)	Max Power (W)
Band 13 (700MHz)/10MHz	23230 782MHz	QPSK	1	#0	0	22.78	0.1897
			1	#Mid	0	22.93	0.1963
			1	#Max	0	22.36	0.1722
			50%	#0	1	22.18	0.1652
			50%	#Mid	1	22.14	0.1637
			50%	#Max	1	22.00	0.1585
			100%	--	1	22.12	0.1629
		16QAM	1	#0	1	22.15	0.1641
			1	#Mid	1	22.33	0.1710
			1	#Max	1	21.74	0.1493
			50%	#0	2	21.22	0.1324
			50%	#Mid	2	21.09	0.1285
			50%	#Max	2	21.07	0.1279
			100%	--	2	21.14	0.1300

3.6. Maximum Conducted Power and ERP/EIRP Power

According to KDB 412172 D01 Section 1.2 Power Approach

$$\text{EIRP} = P_T + G_T - L_C = \text{ERP} + 2.15 \text{ dB}, \text{ERP} = \text{EIRP} - 2.15 \text{ dB}$$

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

LTE Band	BW	Modulation	Conducted Peak Power (dBm)	Conducted Peak Power (W)	Antenna Gain (dBi)	Maximum ERP (W)	Maximum ERP Limit (W)
2	1.4M	QPSK	23.02	0.200	2.98	0.398	2
		16QAM	22.36	0.172	2.98	0.342	2
	3M	QPSK	23.01	0.200	2.98	0.397	2
		16QAM	22.29	0.169	2.98	0.337	2
	5M	QPSK	23.02	0.200	2.98	0.398	2
		16QAM	22.40	0.174	2.98	0.345	2
	10M	QPSK	23.27	0.212	2.98	0.422	2
		16QAM	22.62	0.183	2.98	0.363	2
	15M	QPSK	23.56	0.227	2.98	0.451	2
		16QAM	22.96	0.198	2.98	0.393	2
	20M	QPSK	23.35	0.216	2.98	0.430	2
		16QAM	22.76	0.189	2.98	0.375	2

LTE Band	BW	Modulation	Conducted Peak Power (dBm)	Conducted Peak Power (W)	Antenna Gain (dBi)	Maximum ERP (W)	Maximum ERP Limit (W)
4	1.4M	QPSK	22.83	0.192	2.98	0.381	1
		16QAM	22.16	0.164	2.98	0.327	1
	3M	QPSK	22.78	0.190	2.98	0.377	1
		16QAM	22.21	0.166	2.98	0.330	1
	5M	QPSK	22.83	0.192	2.98	0.381	1
		16QAM	22.25	0.168	2.98	0.333	1
	10M	QPSK	23.08	0.203	2.98	0.404	1
		16QAM	22.38	0.173	2.98	0.344	1
	15M	QPSK	23.27	0.212	2.98	0.422	1
		16QAM	22.71	0.187	2.98	0.371	1
	20M	QPSK	23.32	0.215	2.98	0.427	1
		16QAM	22.71	0.187	2.98	0.371	1

LTE Band	BW	Modulation	Conducted Peak Power (dBm)	Conducted Peak Power (W)	Antenna Gain (dBi)	Maximum ERP (W)	Maximum ERP Limit (W)
5	1.4M	QPSK	23.02	0.200	3.90	0.300	7
		16QAM	22.36	0.172	3.90	0.258	7
	3M	QPSK	23.39	0.218	3.90	0.327	7
		16QAM	22.72	0.187	3.90	0.280	7
	5M	QPSK	23.35	0.216	3.90	0.324	7
		16QAM	22.74	0.188	3.90	0.281	7
	10M	QPSK	23.36	0.217	3.90	0.324	7
		16QAM	22.73	0.187	3.90	0.281	7

LTE Band	BW	Modulation	Conducted Peak Power (dBm)	Conducted Peak Power (W)	Antenna Gain (dBi)	Maximum ERP (W)	Maximum ERP Limit (W)
12	1.4M	QPSK	23.21	0.209	4.40	0.352	3
		16QAM	22.62	0.183	4.40	0.307	3
	3M	QPSK	23.19	0.208	4.40	0.350	3
		16QAM	22.53	0.179	4.40	0.301	3
	5M	QPSK	23.12	0.205	4.40	0.344	3
		16QAM	22.57	0.181	4.40	0.303	3
	10M	QPSK	23.07	0.203	4.40	0.340	3
		16QAM	22.48	0.177	4.40	0.297	3

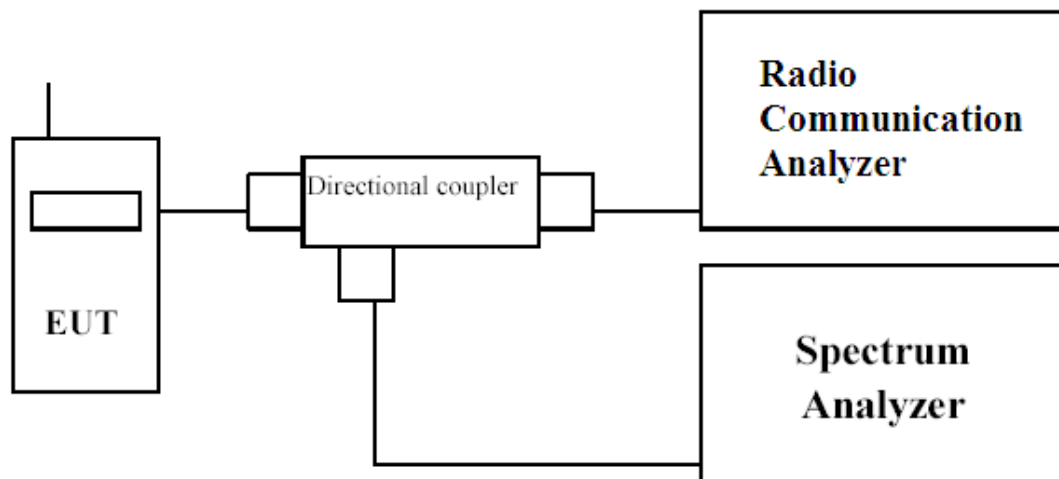
LTE Band	BW	Modulation	Conducted Peak Power (dBm)	Conducted Peak Power (W)	Antenna Gain (dBi)	Maximum ERP (W)	Maximum ERP Limit (W)
13	5M	QPSK	23.14	0.206	4.40	0.346	3
		16QAM	22.50	0.178	4.40	0.299	3
	10M	QPSK	22.93	0.196	4.40	0.330	3
		16QAM	22.33	0.171	4.40	0.287	3

4. Occupied Bandwidth

4.1. Test Secification

According to FCC Part 2.1049, 22.917, 24.238, 27.53
RSS GEN, RSS 130, RSS 132, RSS 133, RSS 139

4.2. Test Setup



4.3. Test Procedure

The EUT is tested with maximum rated TX power via the Base Station simulator, and the occupied bandwidth was measured at the antenna terminals of the EUT.

The Resolution BW of the analyzer is set to 1 %~5% of the emission bandwidth. The EUT's occupied bandwidth is measured as the width of the signal between two points, one below the carrier center frequency and one above the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

The plots below show the resultant display from the Spectrum Analyser.

4.4. Test Result of Occupied Bandwidth

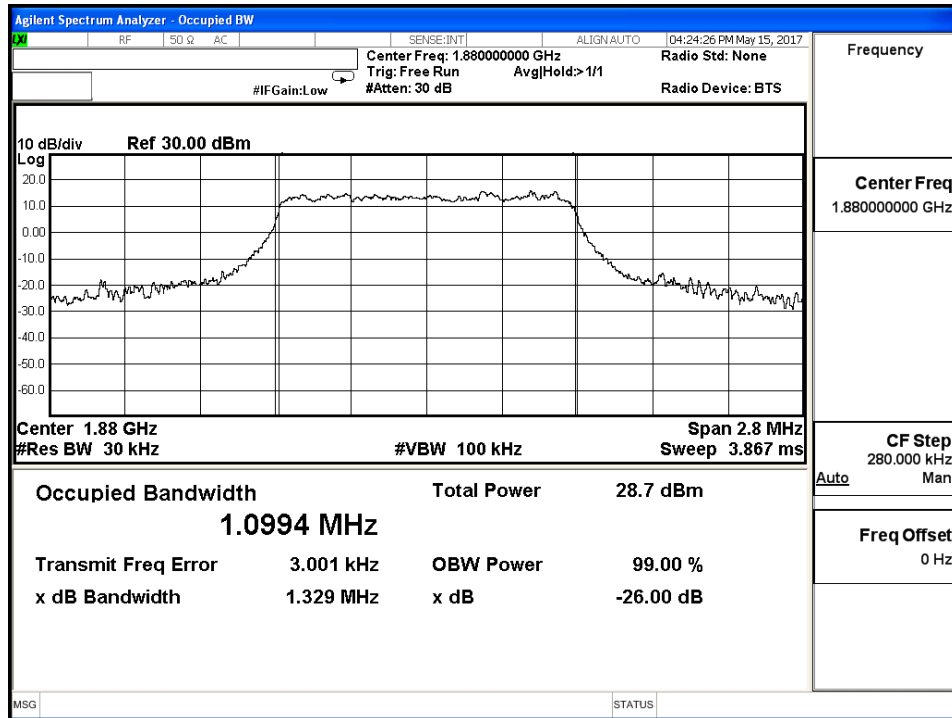
Product	NEO LTE Cellular Alarm Communicators
Test Mode	Occupied Bandwidth
Test Site	CTR

Test Mode	Channel	TX Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB bandwidth (MHz)	Result
Band 2 1.4M QPSK	18900	1880	1.0994	1.329	Pass
Band 2 1.4M 16QAM	18900	1880	1.1000	1.356	Pass
Band 2 3M QPSK	18900	1880	2.7350	3.124	Pass
Band 2 3M 16QAM	18900	1880	2.7241	3.071	Pass
Band 2 5M QPSK	18900	1880	4.5134	5.102	Pass
Band 2 5M 16QAM	18900	1880	4.4777	5.027	Pass
Band 2 10M QPSK	18900	1880	9.0778	10.430	Pass
Band 2 10M 16QAM	18900	1880	9.0720	10.410	Pass
Band 2 15M QPSK	18900	1880	13.5050	15.850	Pass
Band 2 15M 16QAM	18900	1880	13.5060	15.670	Pass
Band 2 20M QPSK	18900	1880	18.5640	21.300	Pass
Band 2 20M 16QAM	18900	1880	18.5290	21.040	Pass
Band 4 1.4M QPSK	20175	1732.5	1.1001	1.339	Pass
Band 4 1.4M 16QAM	20175	1732.5	1.1004	1.355	Pass
Band 4 3M QPSK	20175	1732.5	2.7375	3.118	Pass
Band 4 3M 16QAM	20175	1732.5	2.7273	3.257	Pass
Band 4 5M QPSK	20175	1732.5	4.5035	5.153	Pass
Band 4 5M 16QAM	20175	1732.5	4.4838	5.056	Pass
Band 4 10M QPSK	20175	1732.5	9.0494	10.490	Pass
Band 4 10M 16QAM	20175	1732.5	9.0621	10.370	Pass
Band 4 15M QPSK	20175	1732.5	13.5310	15.610	Pass
Band 4 15M 16QAM	20175	1732.5	13.4780	15.560	Pass
Band 4 20M QPSK	20175	1732.5	18.5110	21.180	Pass
Band 4 20M 16QAM	20175	1732.5	18.5020	20.880	Pass

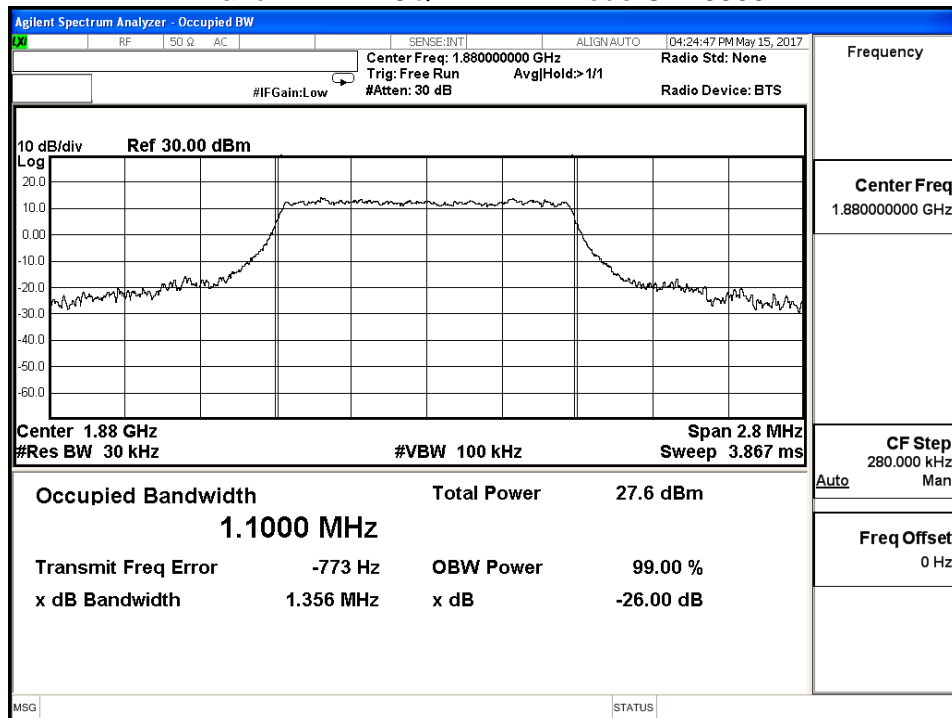
Band 5 1.4M QPSK	20525	836.5	1.0976	1.336	Pass
Band 5 1.4M 16QAM	20525	836.5	1.1000	1.355	Pass
Band 5 3M QPSK	20525	836.5	2.7354	3.249	Pass
Band 5 3M 16QAM	20525	836.5	2.7211	3.062	Pass
Band 5 5M QPSK	20525	836.5	4.5067	5.073	Pass
Band 5 5M 16QAM	20525	836.5	4.4888	5.011	Pass
Band 5 10M QPSK	20525	836.5	9.0933	10.540	Pass
Band 5 10M 16QAM	20525	836.5	9.0883	10.530	Pass
Band 12 1.4M QPSK	23095	707.5	1.0963	1.337	Pass
Band 12 1.4M 16QAM	23095	707.5	1.1003	1.359	Pass
Band 12 3M QPSK	23095	707.5	2.7344	3.107	Pass
Band 12 3M 16QAM	23095	707.5	2.7241	3.093	Pass
Band 12 5M QPSK	23095	707.5	4.4915	4.988	Pass
Band 12 5M 16QAM	23095	707.5	4.4797	4.979	Pass
Band 12 10M QPSK	23095	707.5	9.0249	10.320	Pass
Band 12 10M 16QAM	23095	707.5	9.0191	10.350	Pass
Band 13 5M QPSK	23230	782	4.5187	5.061	Pass
Band 13 5M 16QAM	23230	782	4.4923	5.020	Pass
Band 13 10M QPSK	23230	782	9.0920	10.330	Pass
Band 13 10M 16QAM	23230	782	9.1100	10.350	Pass

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Occupied Bandwidth		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	Band 2 1.4M		

Band 2 1.4M QPSK - LTE Mode CH18900

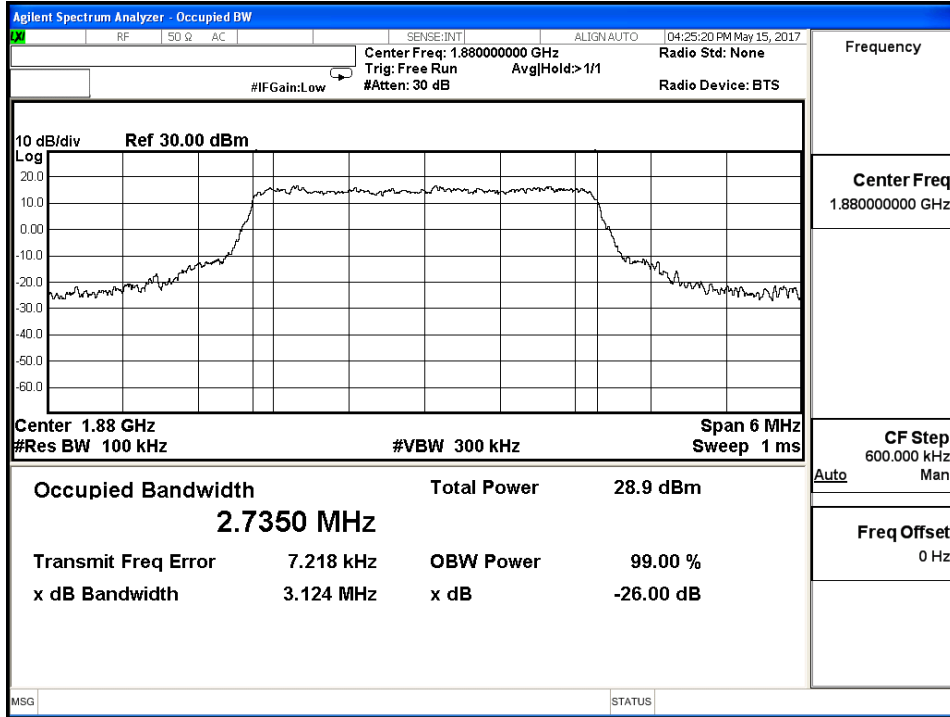


Band 2 1.4M 16QAM - LTE Mode CH18900

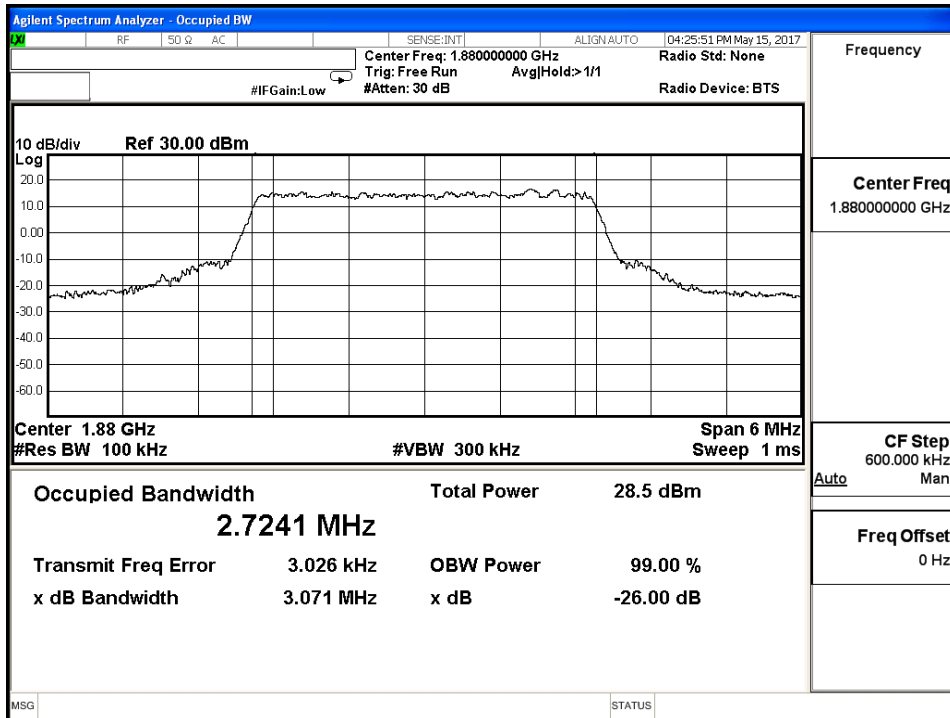


Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Occupied Bandwidth		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	Band 2 3M		

Band 2 3M QPSK - LTE Mode CH18900

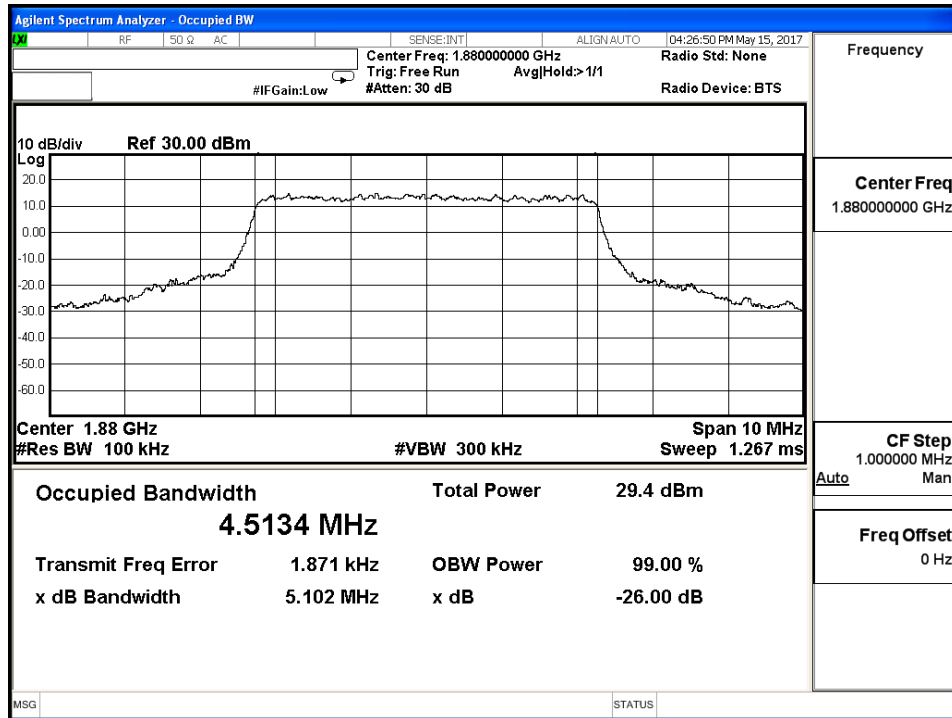


Band 2 3M 16QAM - LTE Mode CH18900

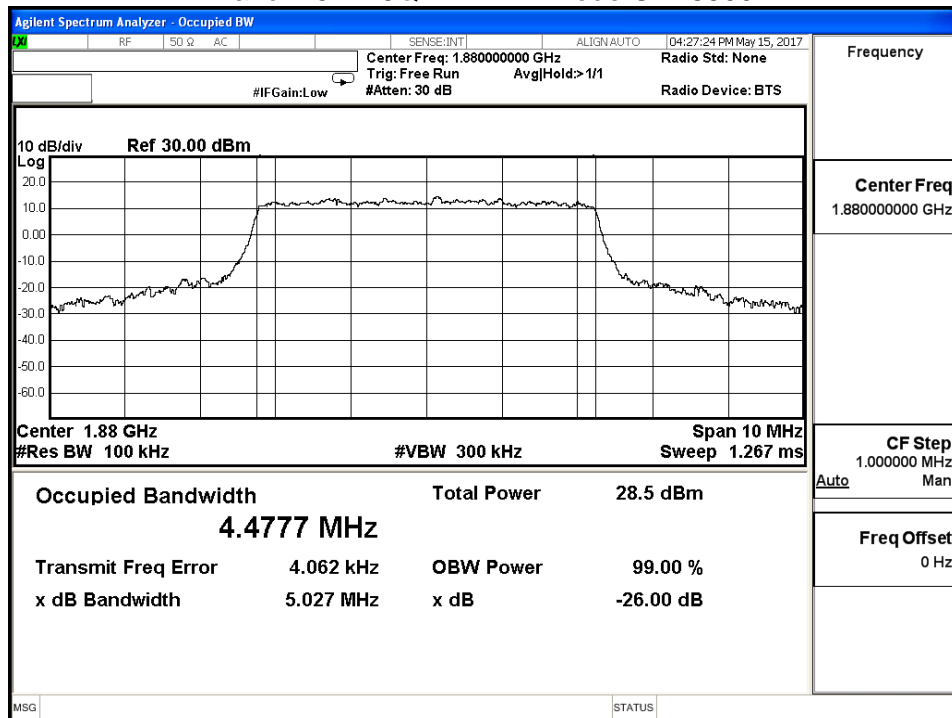


Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Occupied Bandwidth		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	Band 2 5M		

Band 2 5M QPSK - LTE Mode CH18900

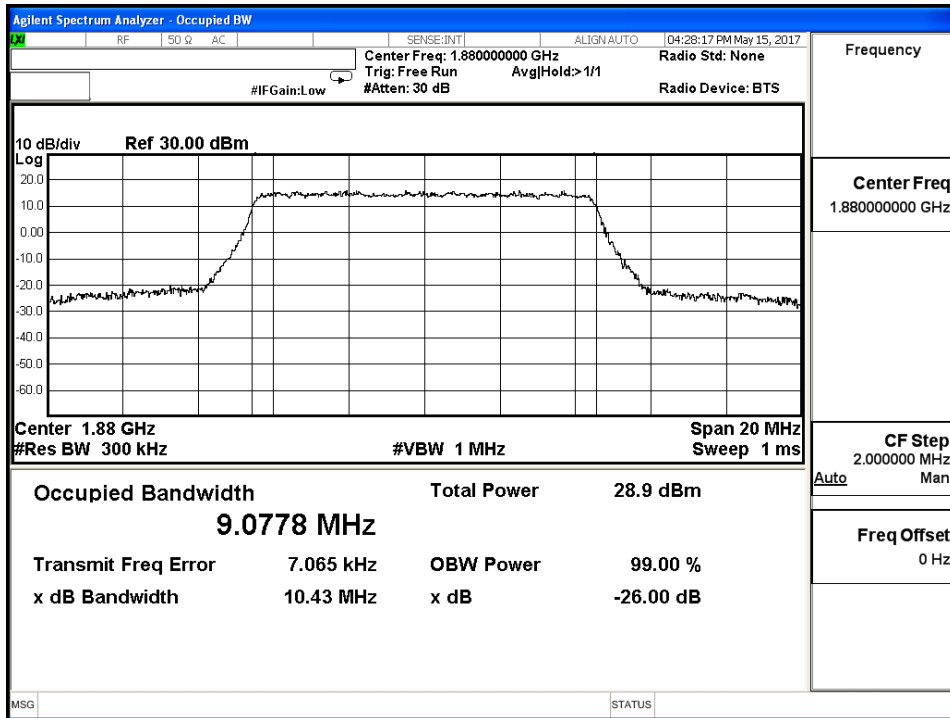


Band 2 5M 16QAM - LTE Mode CH18900

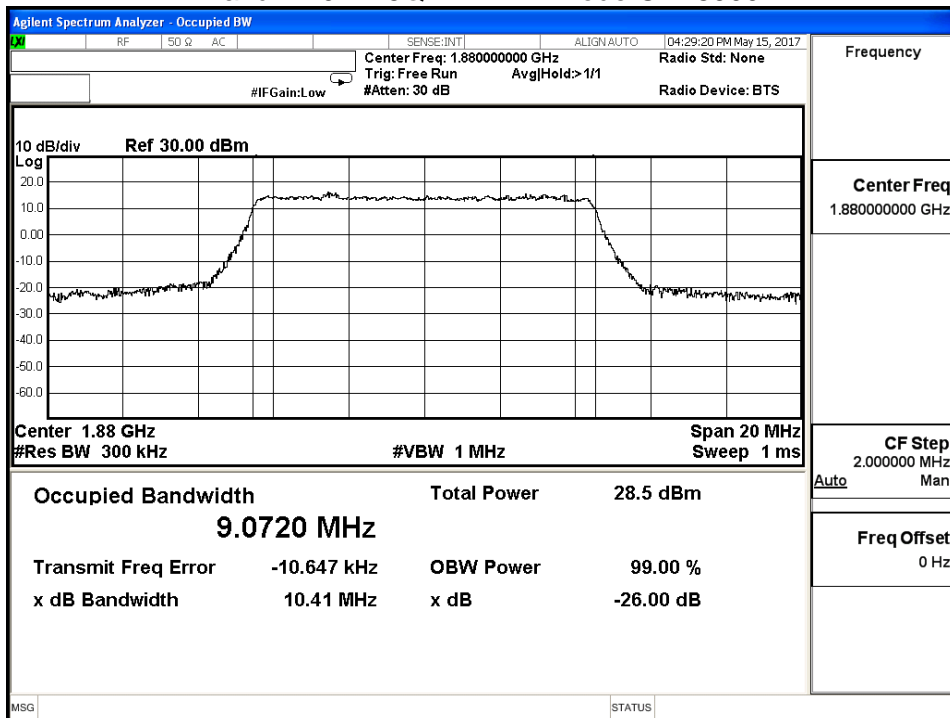


Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Occupied Bandwidth		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	Band 2 10M		

Band 2 10M QPSK - LTE Mode CH18900

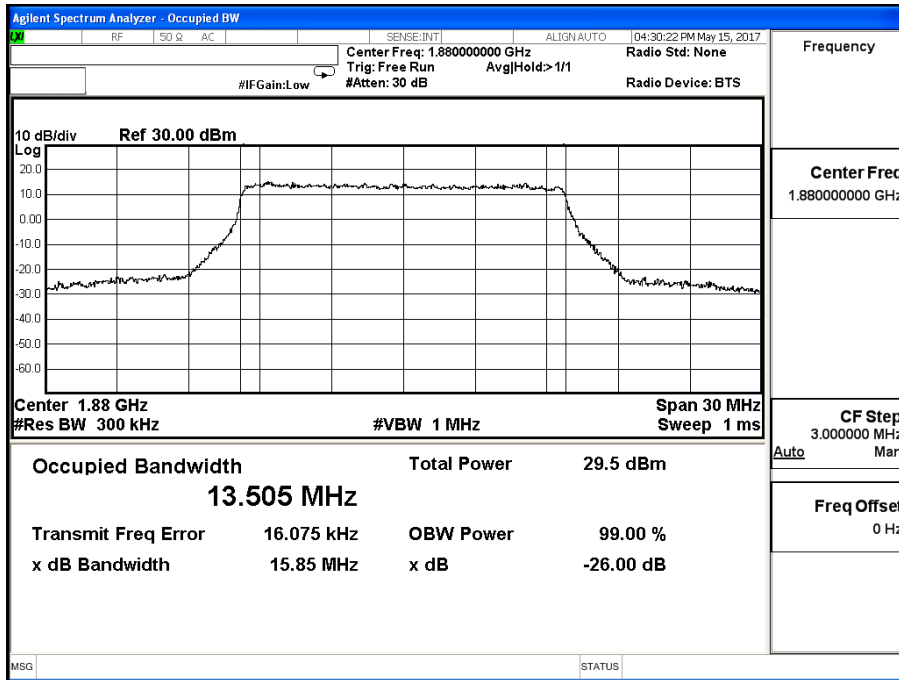


Band 2 10M 16QAM - LTE Mode CH18900

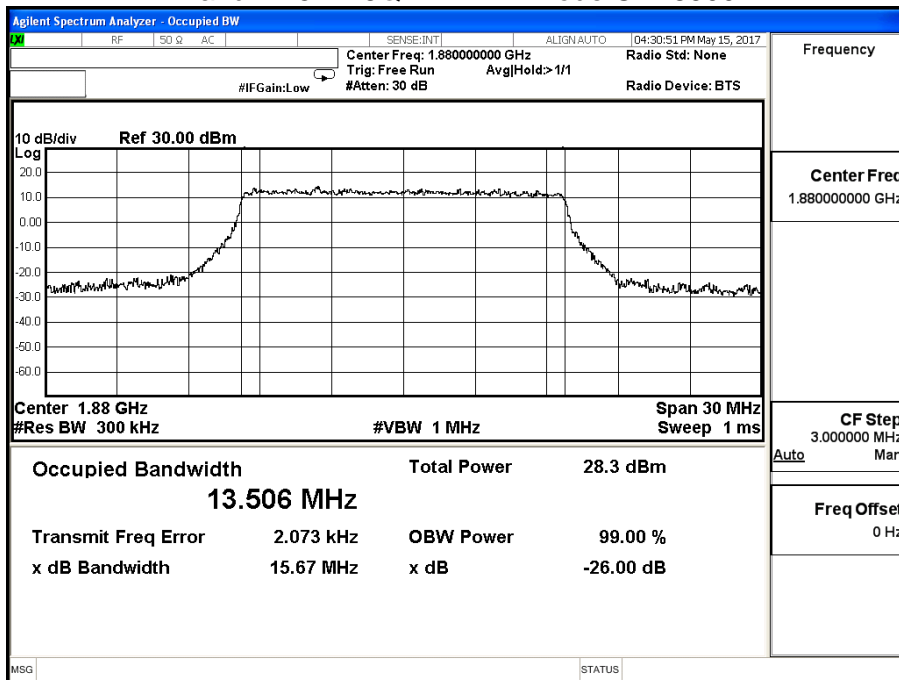


Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Occupied Bandwidth		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	Band 2 15M		

Band 2 15M QPSK - LTE Mode CH18900

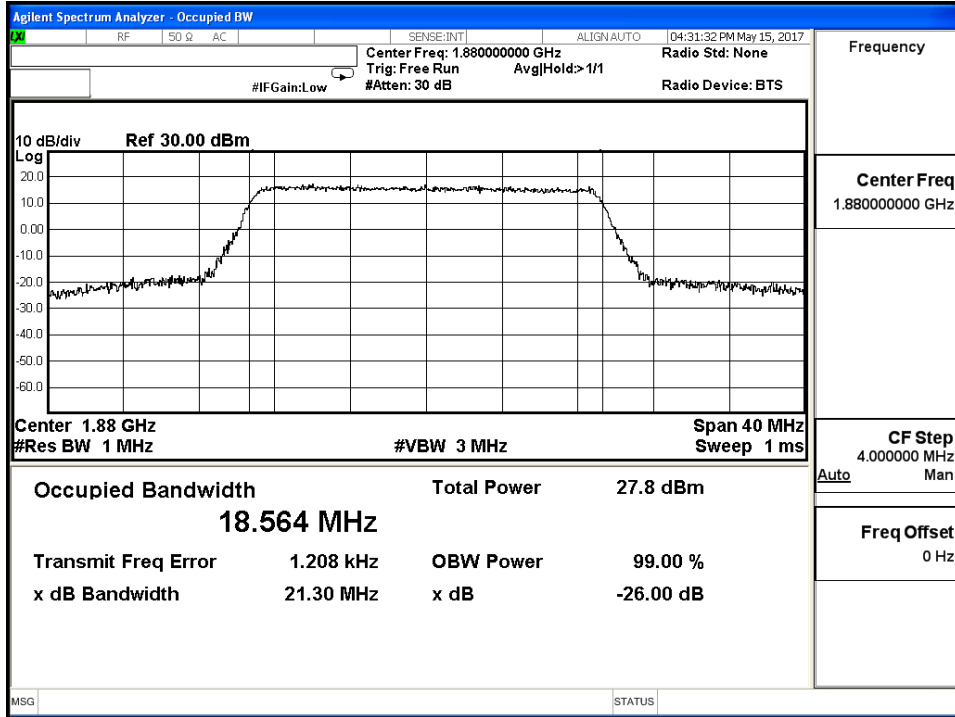


Band 2 15M 16QAM - LTE Mode CH18900

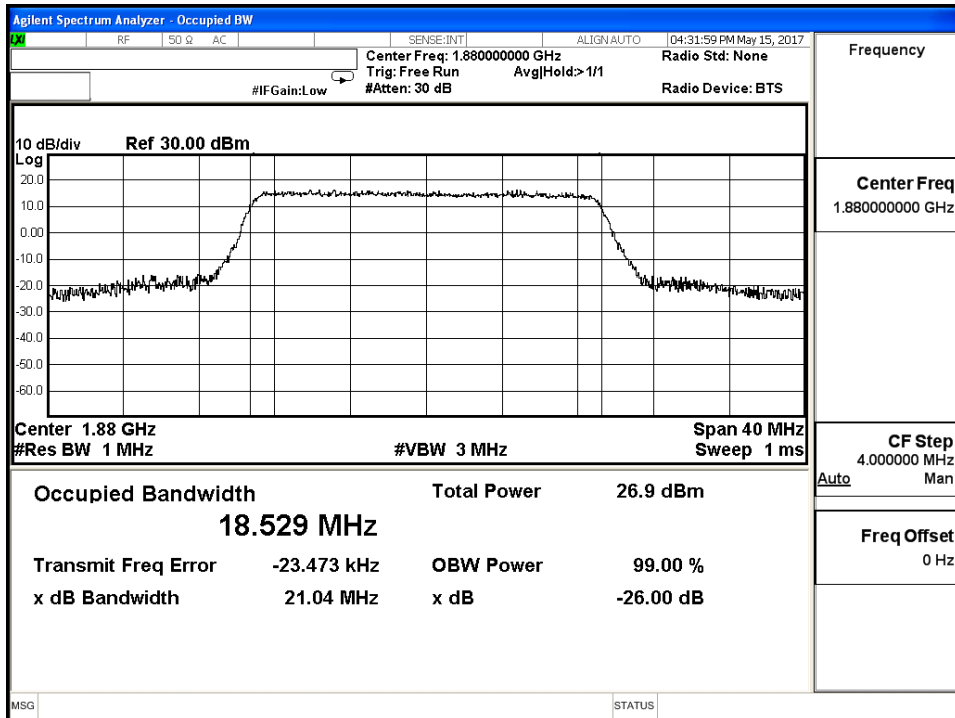


Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Occupied Bandwidth		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	Band 2 20M		

Band 2 20M QPSK - LTE Mode CH18900

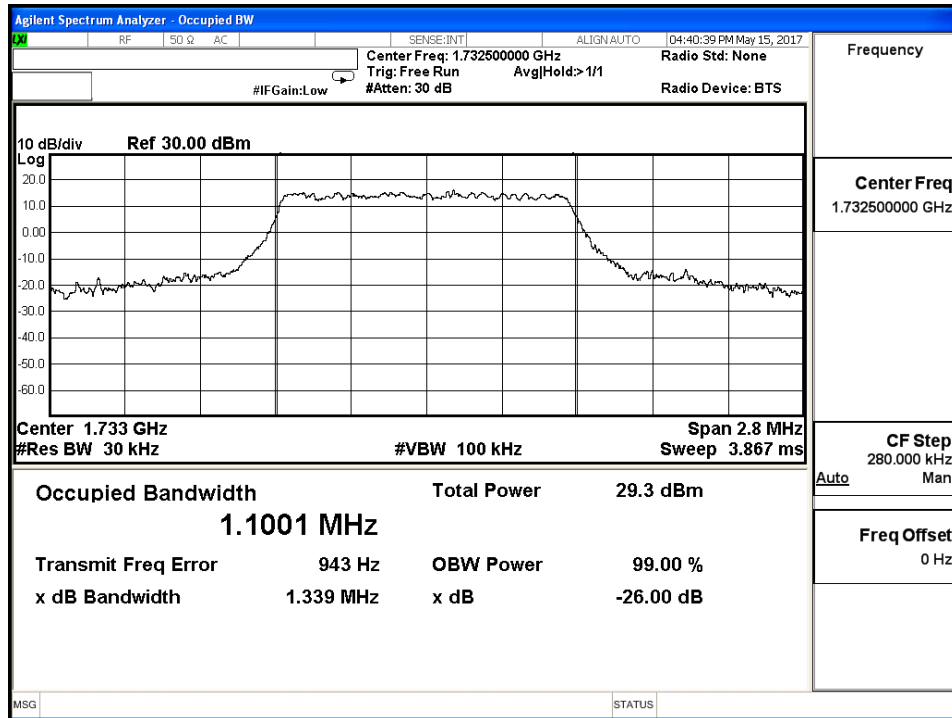


Band 2 20M 16QAM - LTE Mode CH18900

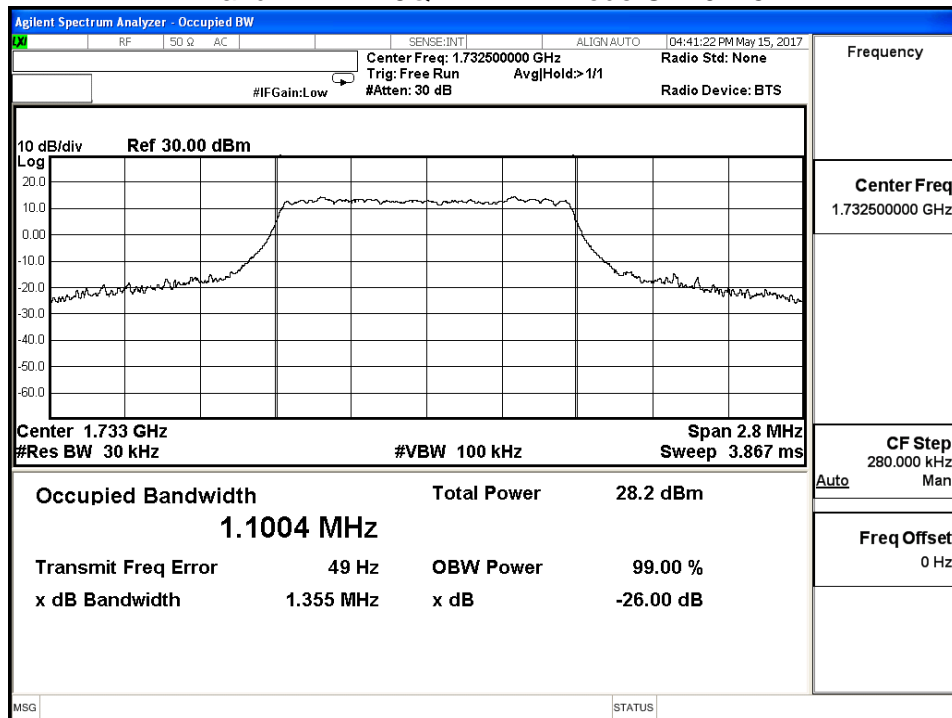


Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Occupied Bandwidth		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	Band 4 1.4M		

Band 4 1.4M QPSK - LTE Mode CH 20175

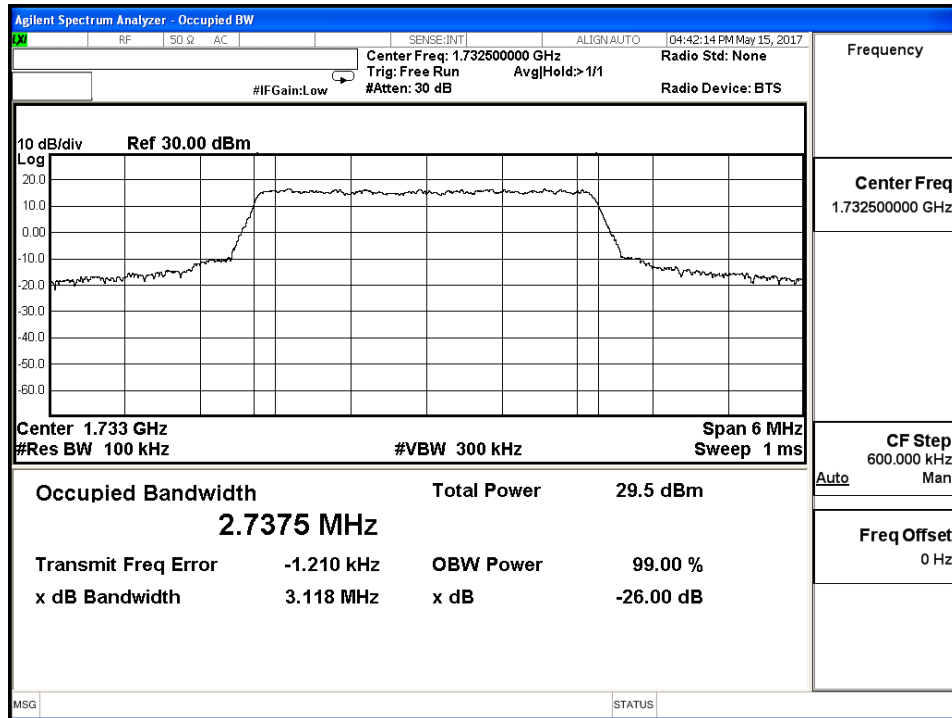


Band 4 1.4M 16QAM - LTE Mode CH20175

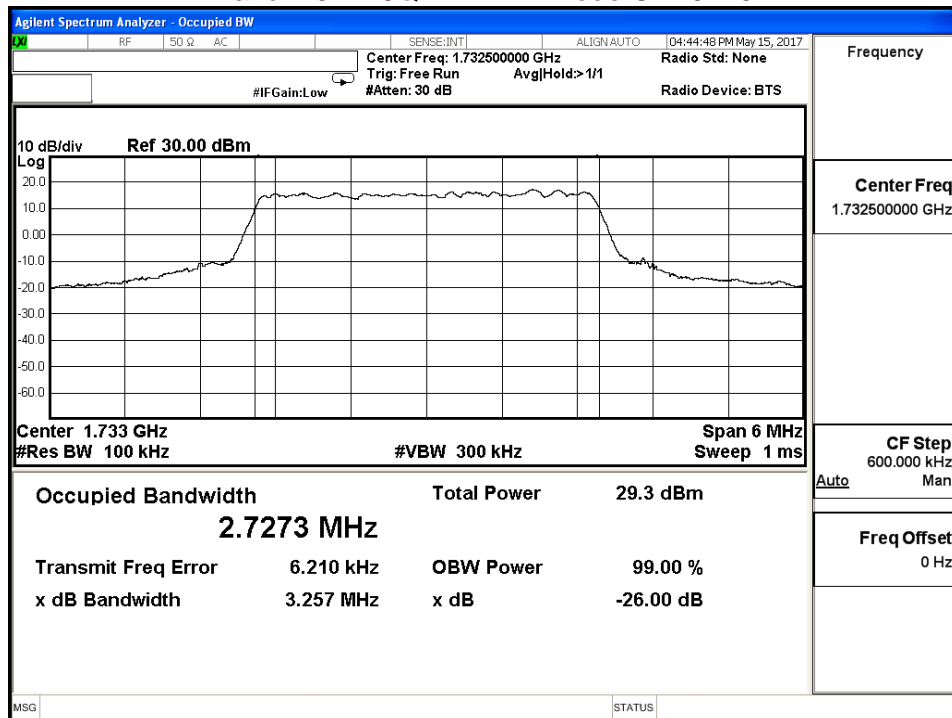


Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Occupied Bandwidth		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	Band 4 3M		

Band 4 3M QPSK - LTE Mode CH20175

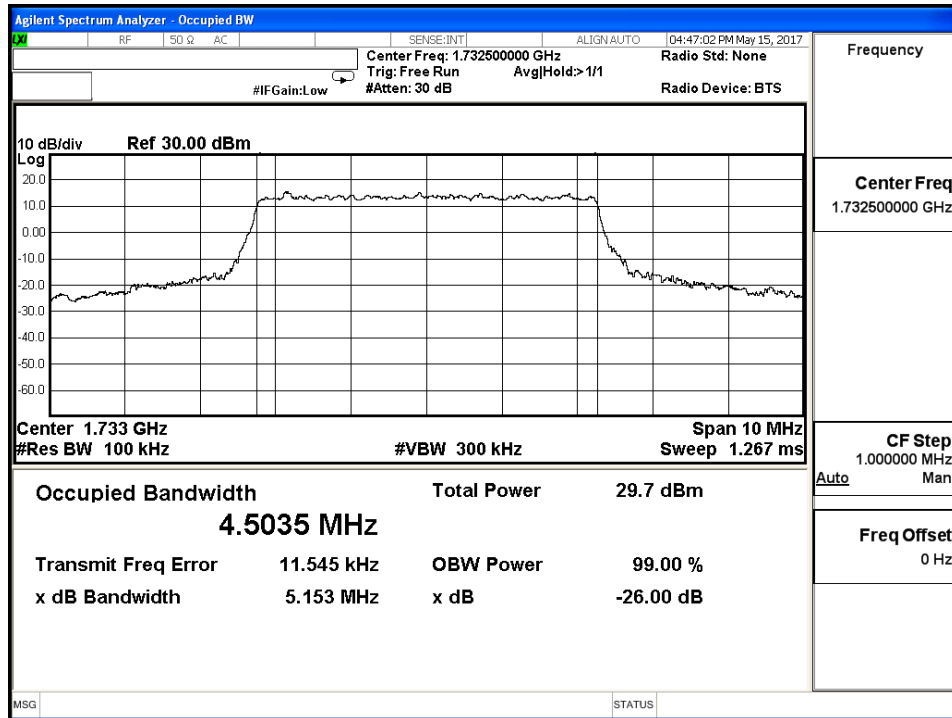


Band 4 3M 16QAM - LTE Mode CH20175

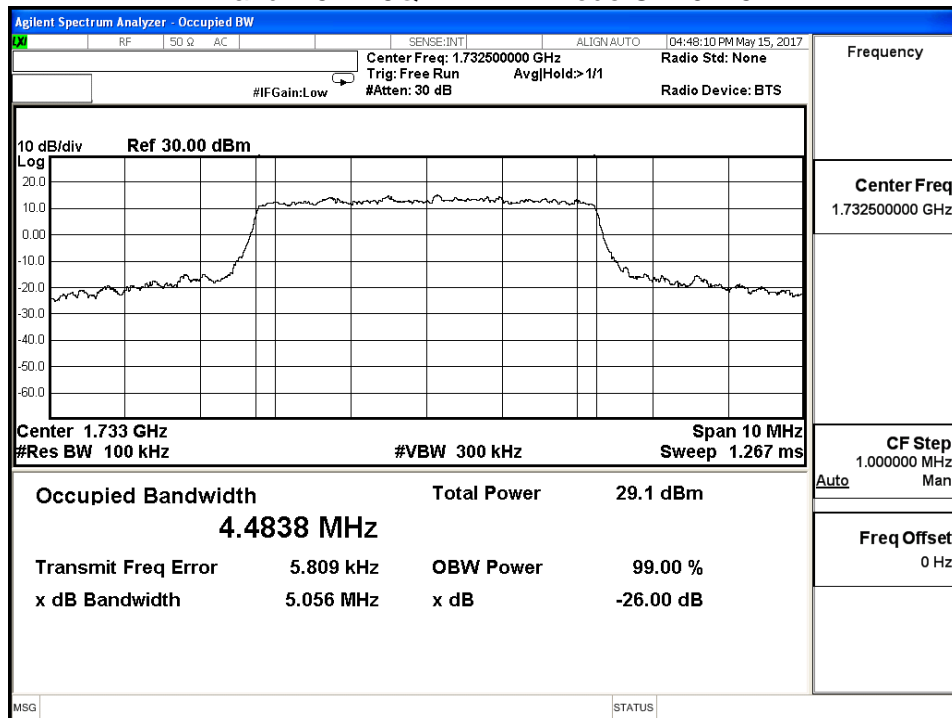


Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Occupied Bandwidth		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	Band 4 5M		

Band 4 5M QPSK - LTE Mode CH20175

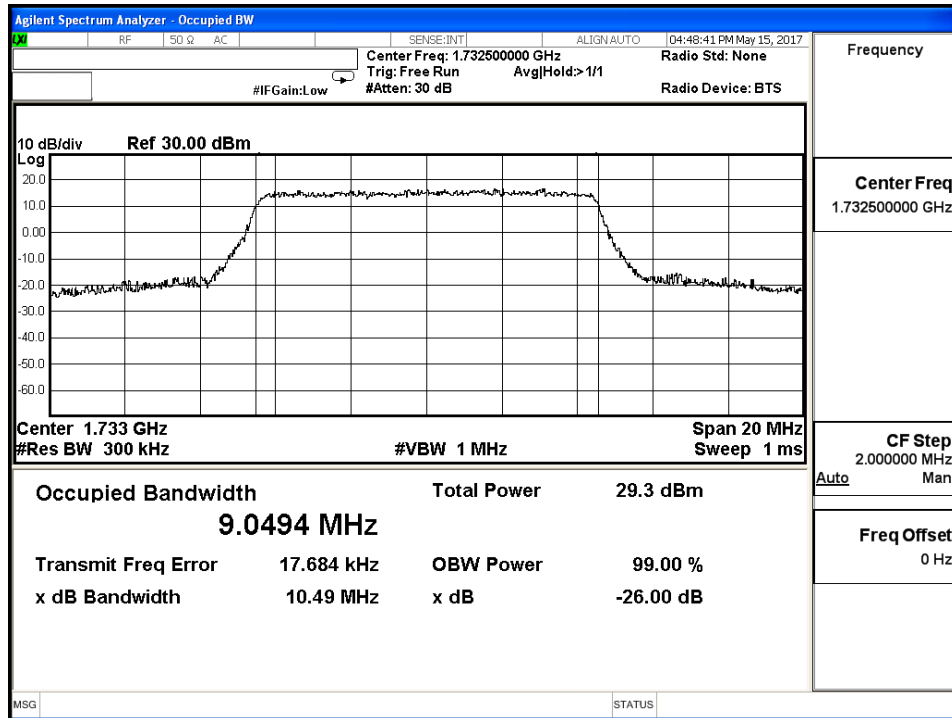


Band 4 5M 16QAM - LTE Mode CH20175

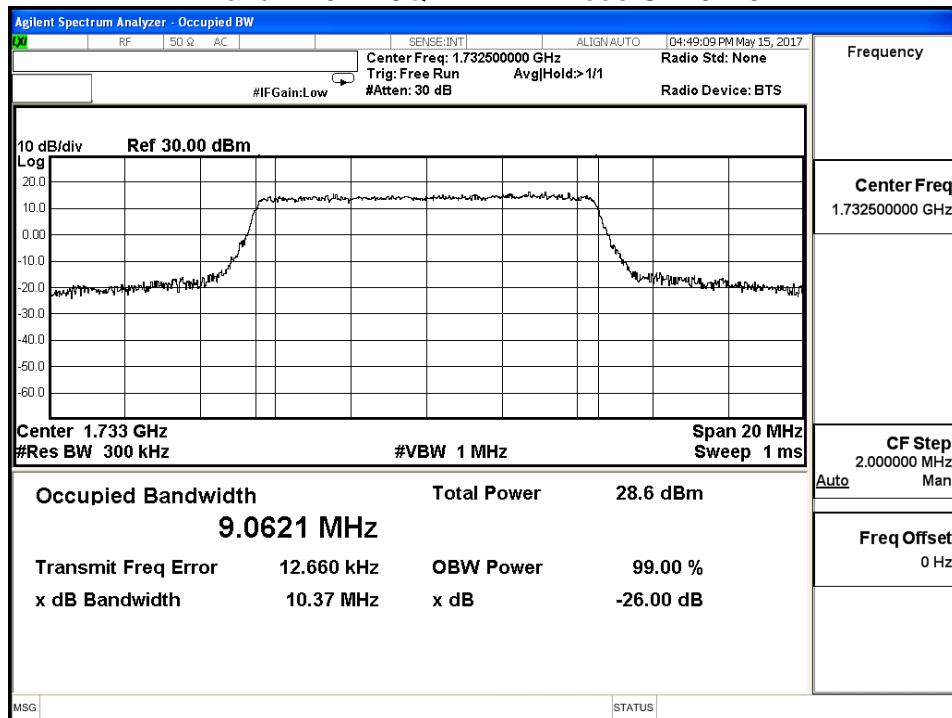


Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Occupied Bandwidth		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	Band 4 10M		

Band 4 10M QPSK - LTE Mode CH20175

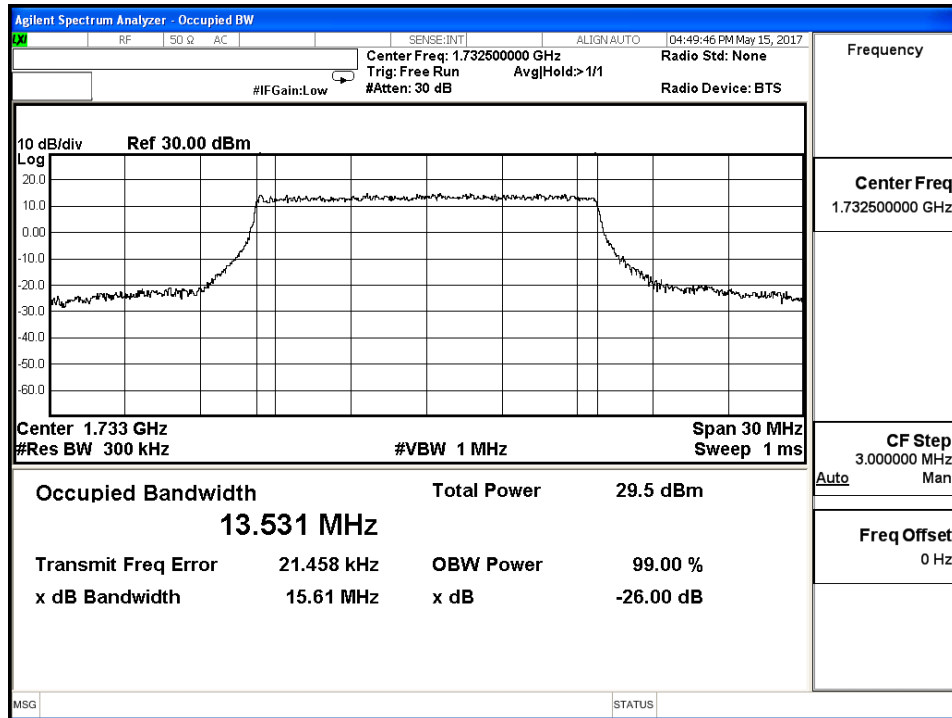


Band 4 10M 16QAM - LTE Mode CH20175

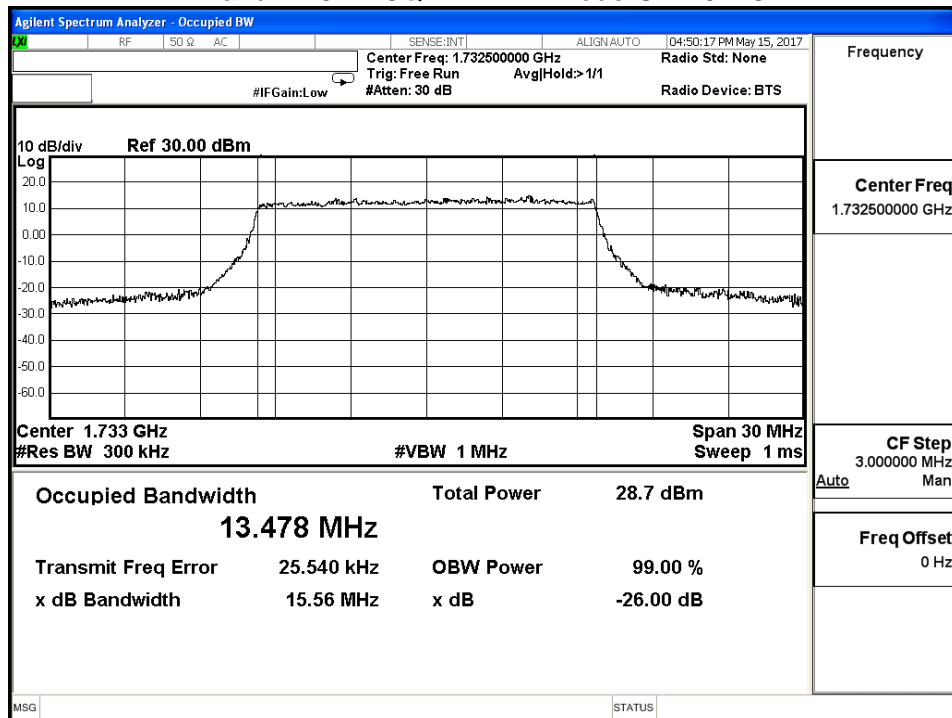


Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Occupied Bandwidth		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	Band 4 15M		

Band 4 15M QPSK - LTE Mode CH20175

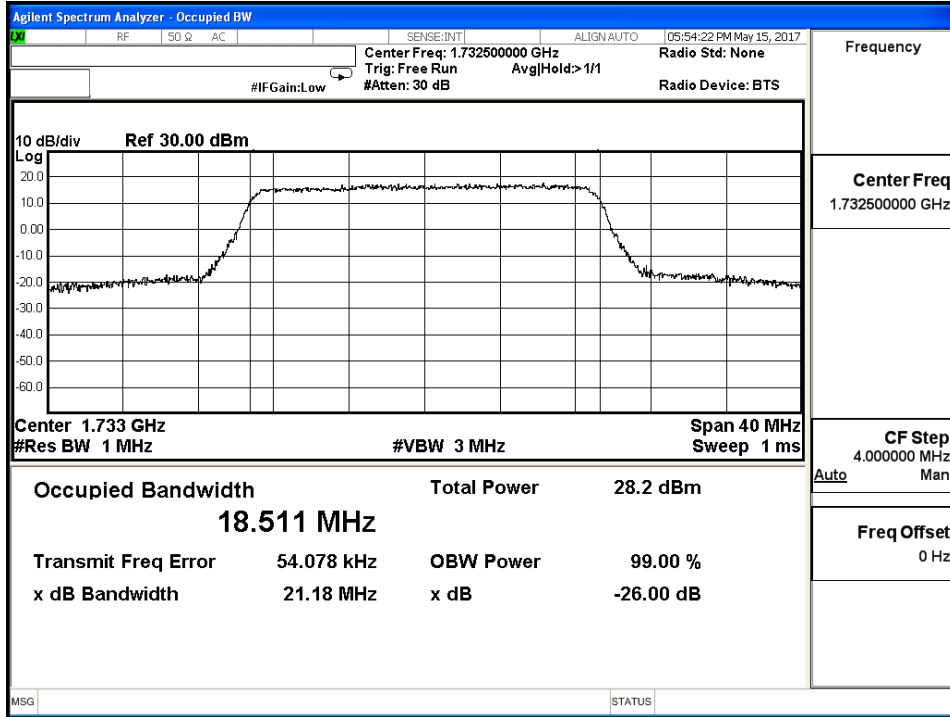


Band 4 15M 16QAM - LTE Mode CH 20175

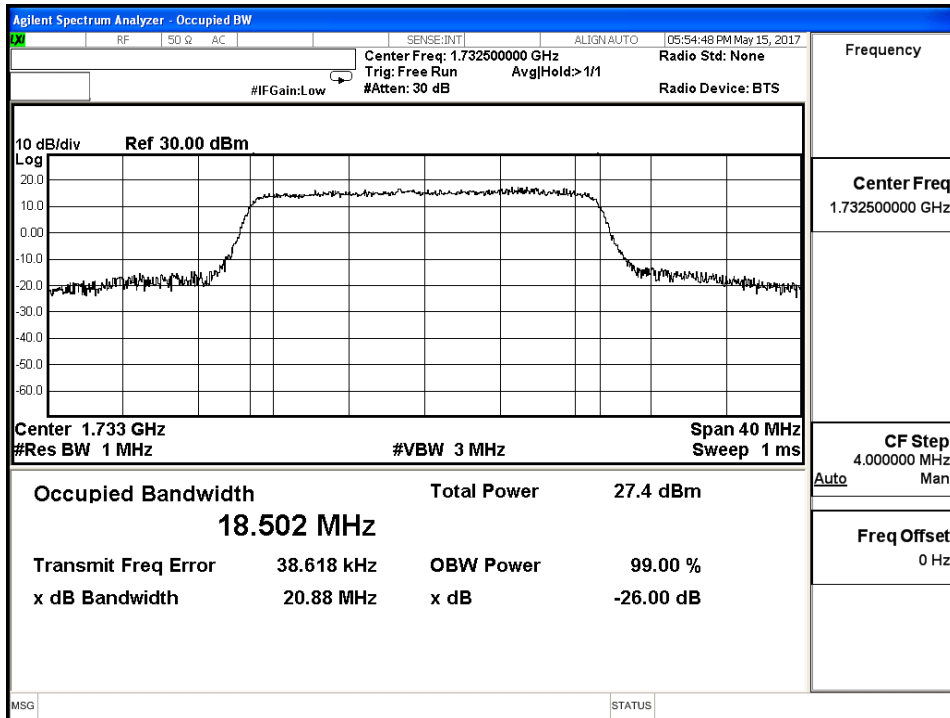


Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Occupied Bandwidth		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	Band 4 20M		

Band 4 20M QPSK - LTE Mode CH20175

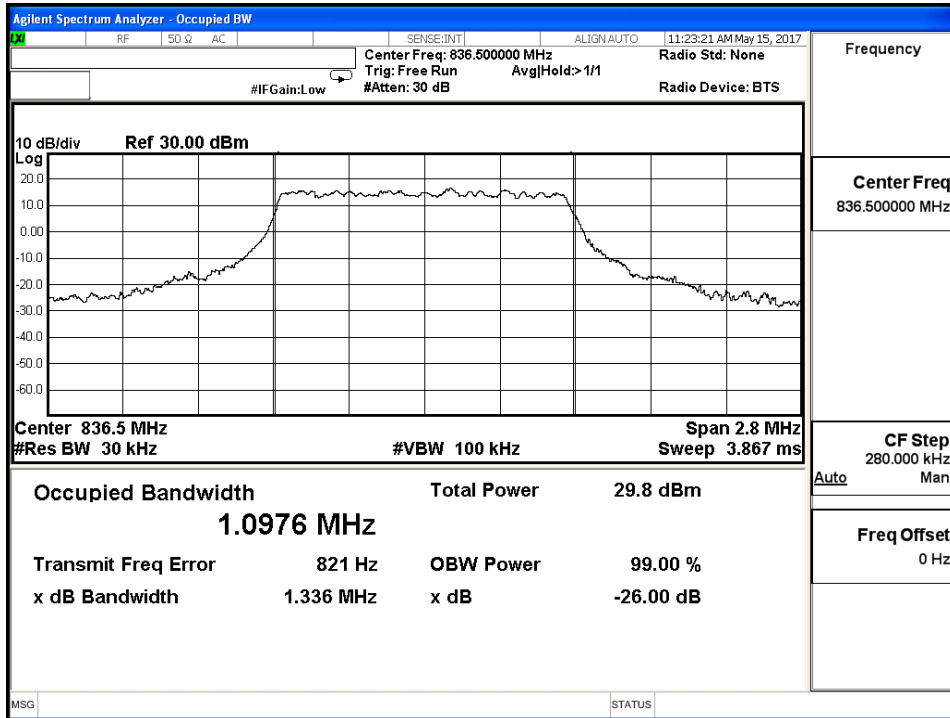


Band 4 20M 16QAM - LTE Mode CH20175

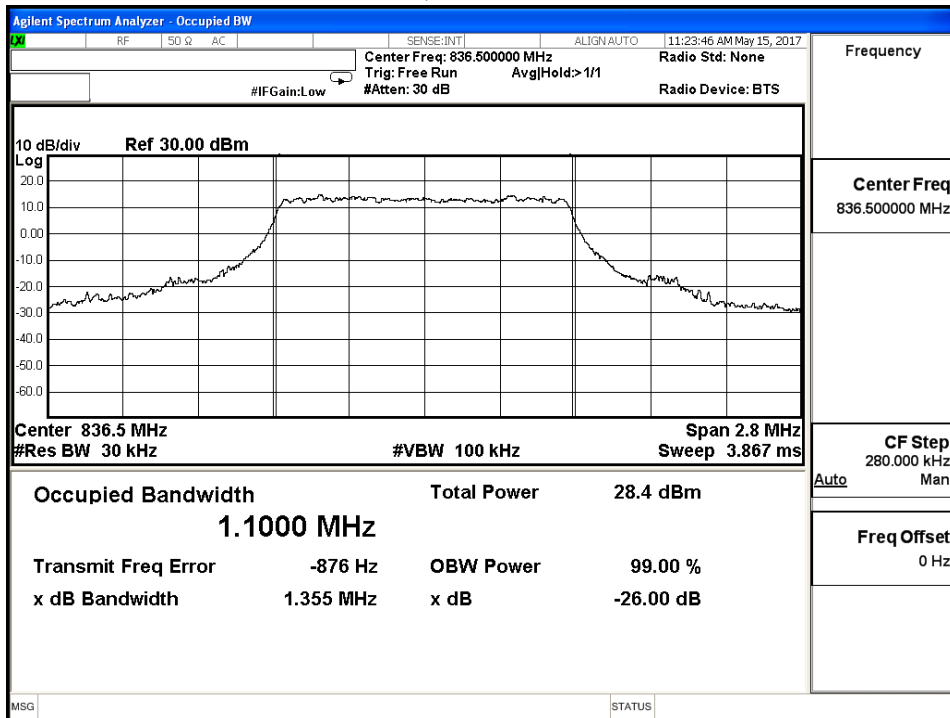


Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Occupied Bandwidth		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	Band 5 1.4M		

Band 5 1.4M QPSK - LTE Mode CH 20525

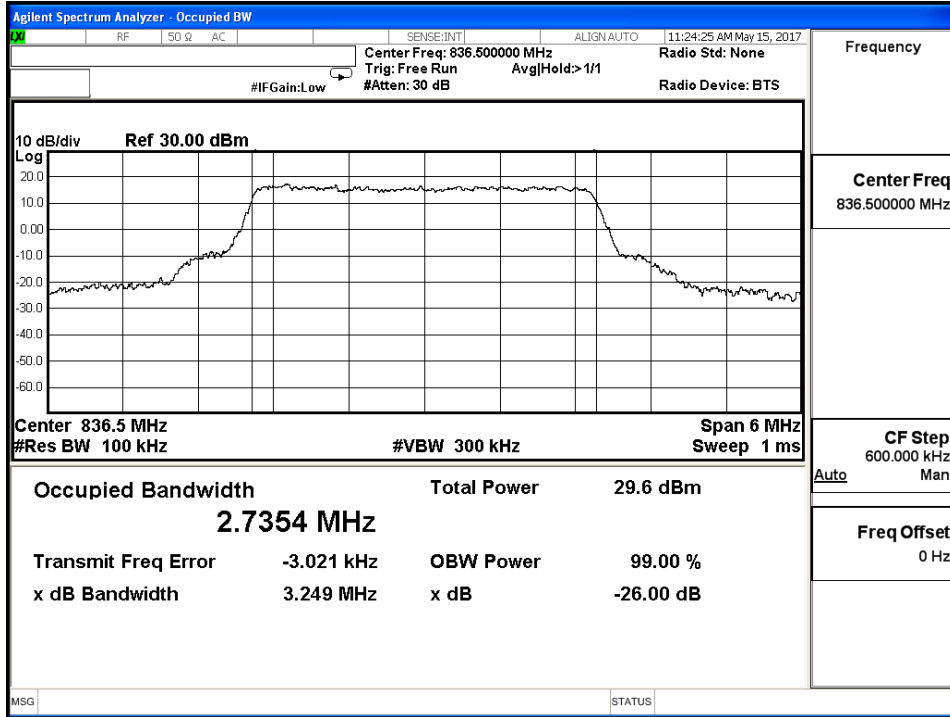


Band 5 1.4M 16QAM - LTE Mode CH20525

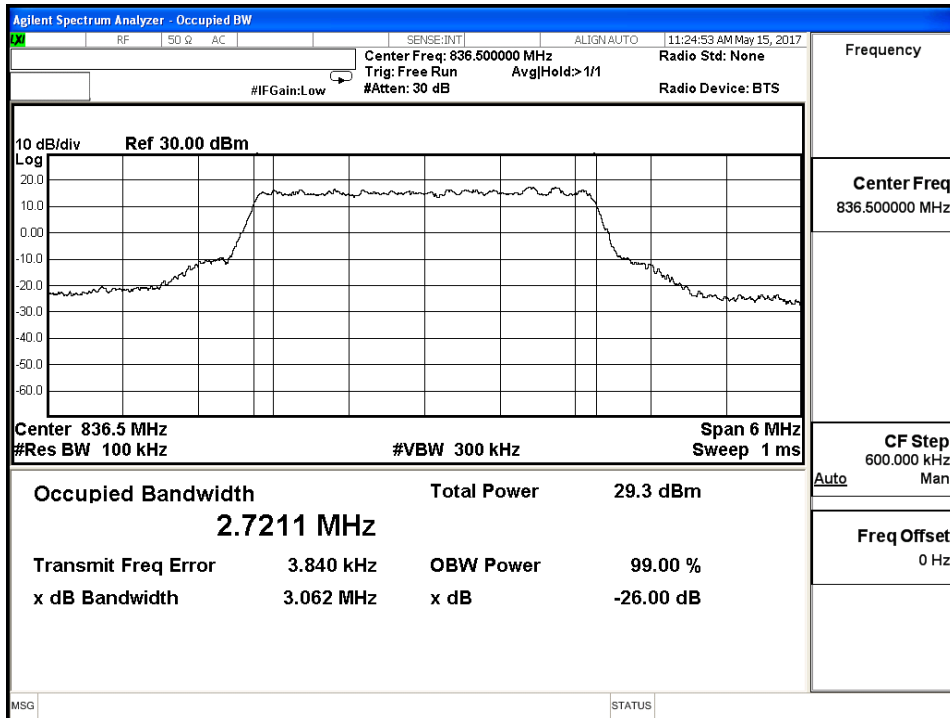


Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Occupied Bandwidth		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	Band 5 3M		

Band 5 3M QPSK - LTE Mode CH20525

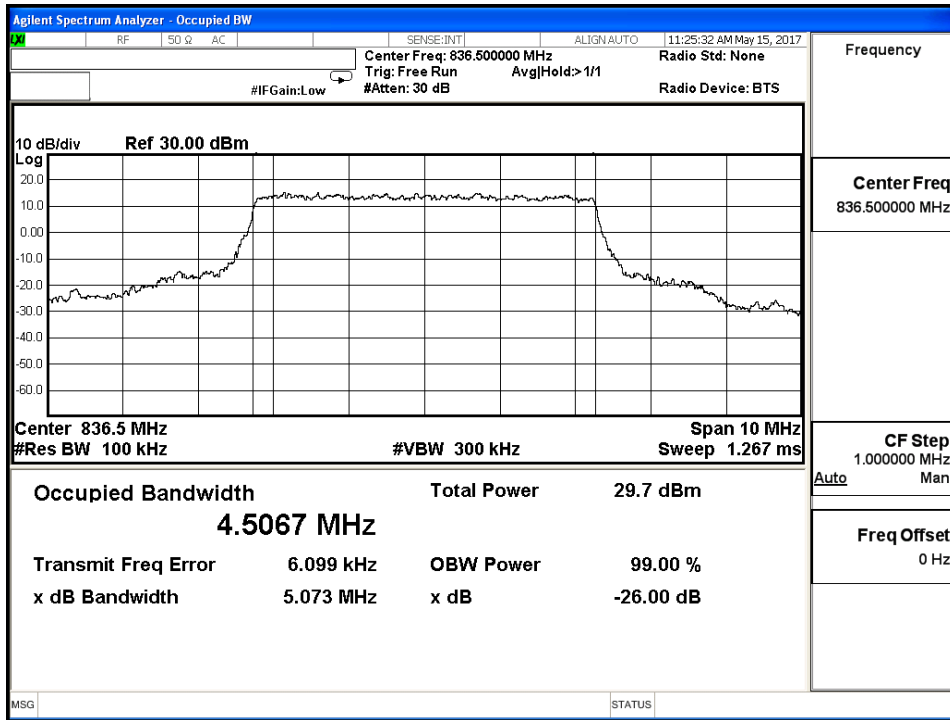


Band 5 3M 16QAM - LTE Mode CH20525

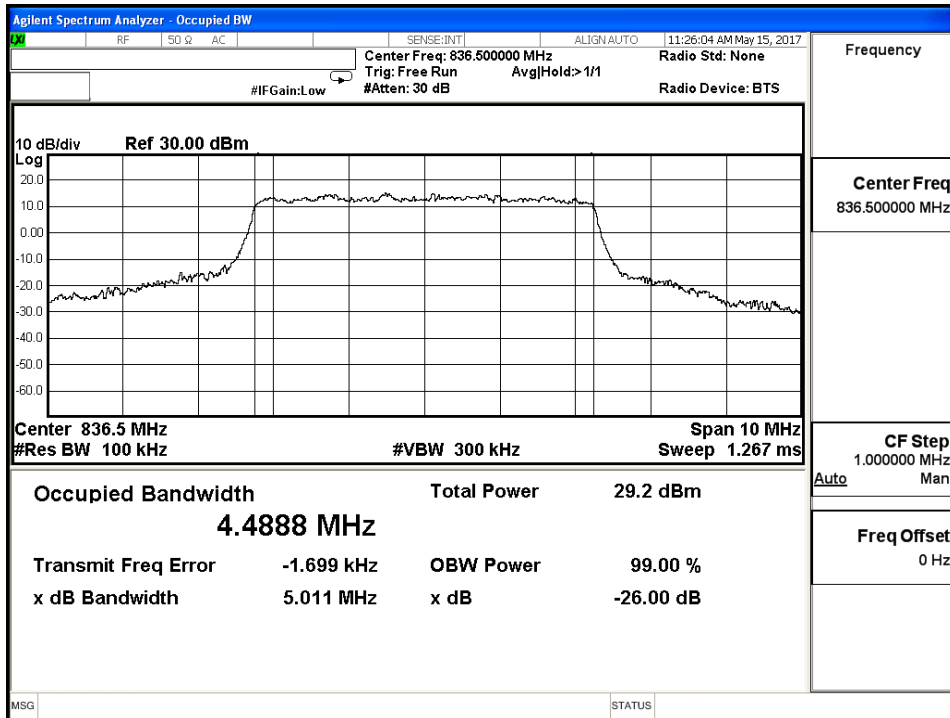


Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Occupied Bandwidth		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	Band 5 5M		

Band 5 5M QPSK - LTE Mode CH20525

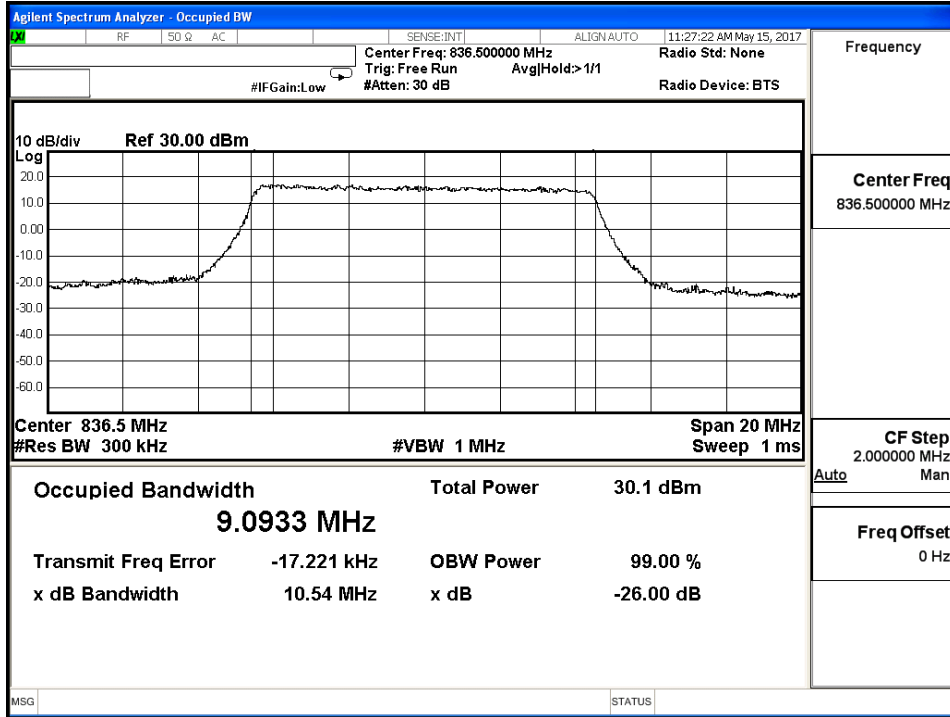


Band 5 5M 16QAM - LTE Mode CH20525

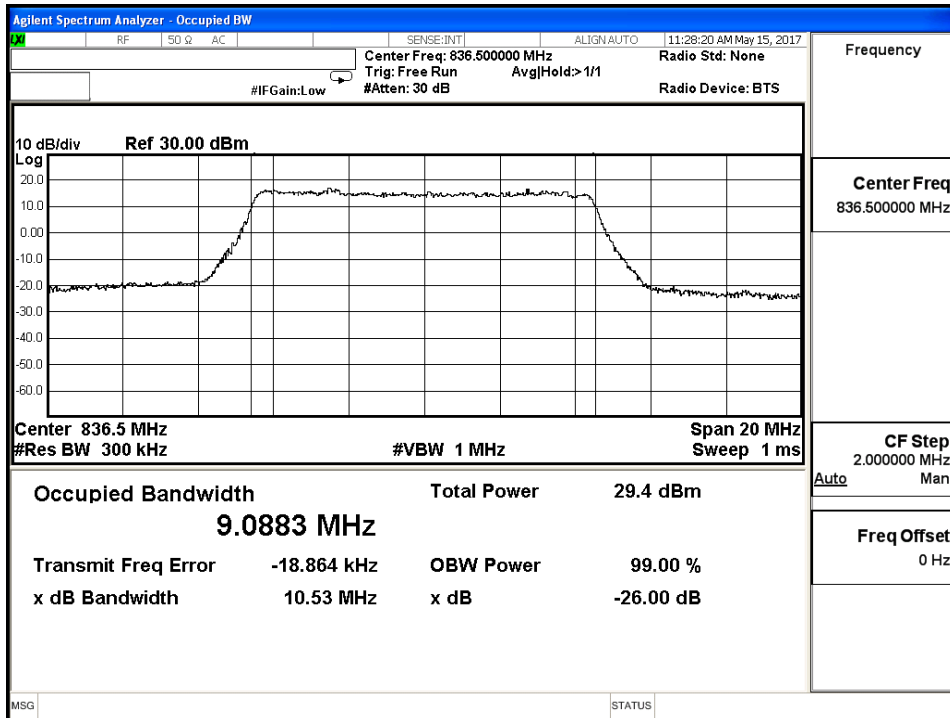


Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Occupied Bandwidth		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	Band 5 10M		

Band 5 10M QPSK - LTE Mode CH20525

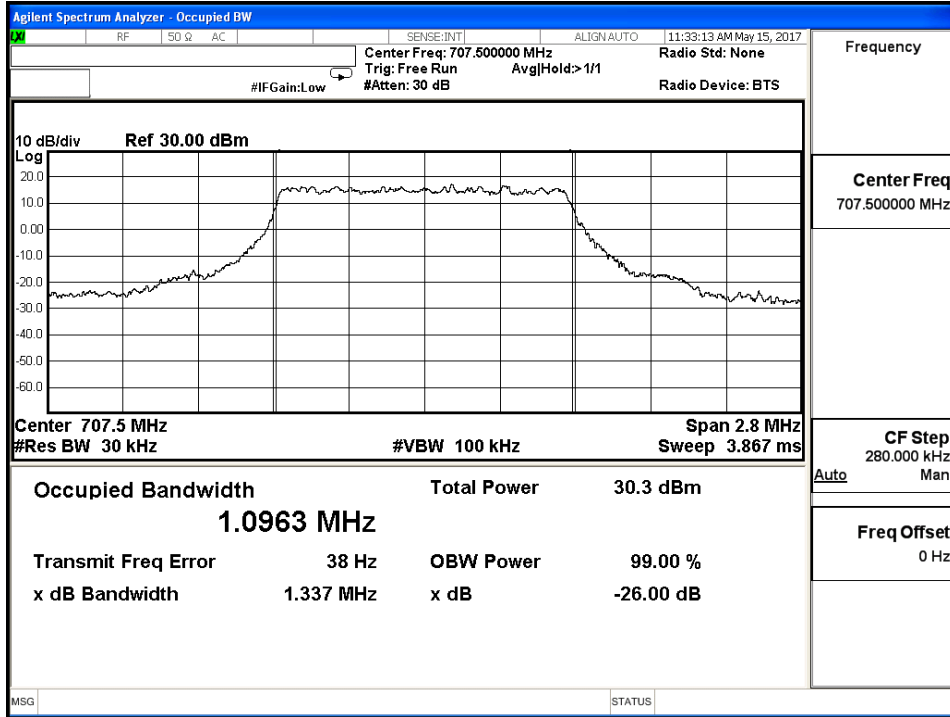


Band 5 10M 16QAM - LTE Mode CH20525

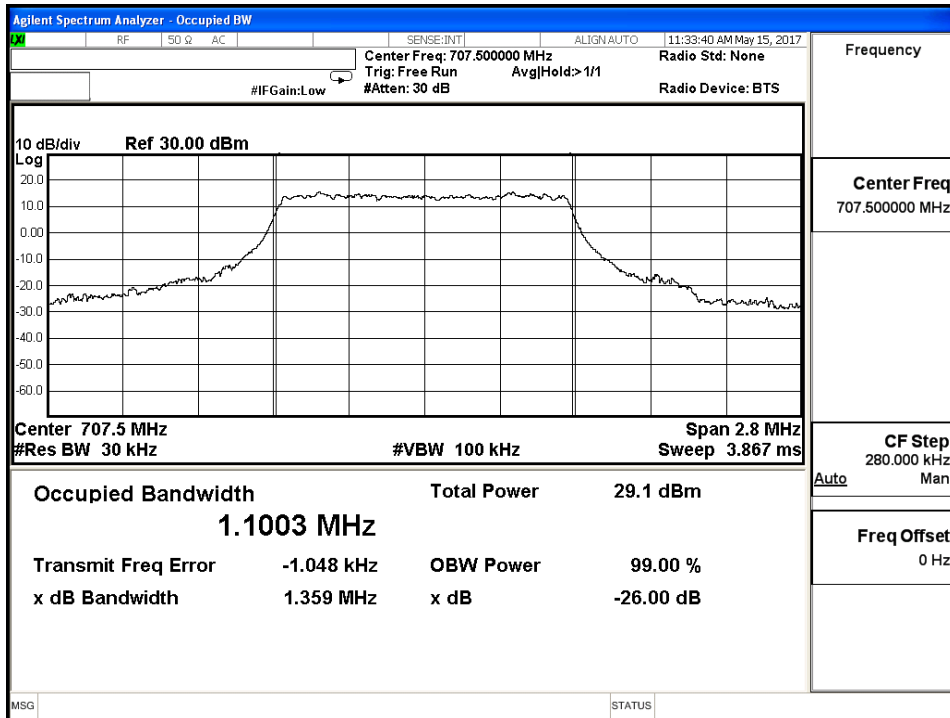


Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Occupied Bandwidth		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	Band 12 1.4M		

Band 12 1.4M QPSK - LTE Mode CH23095

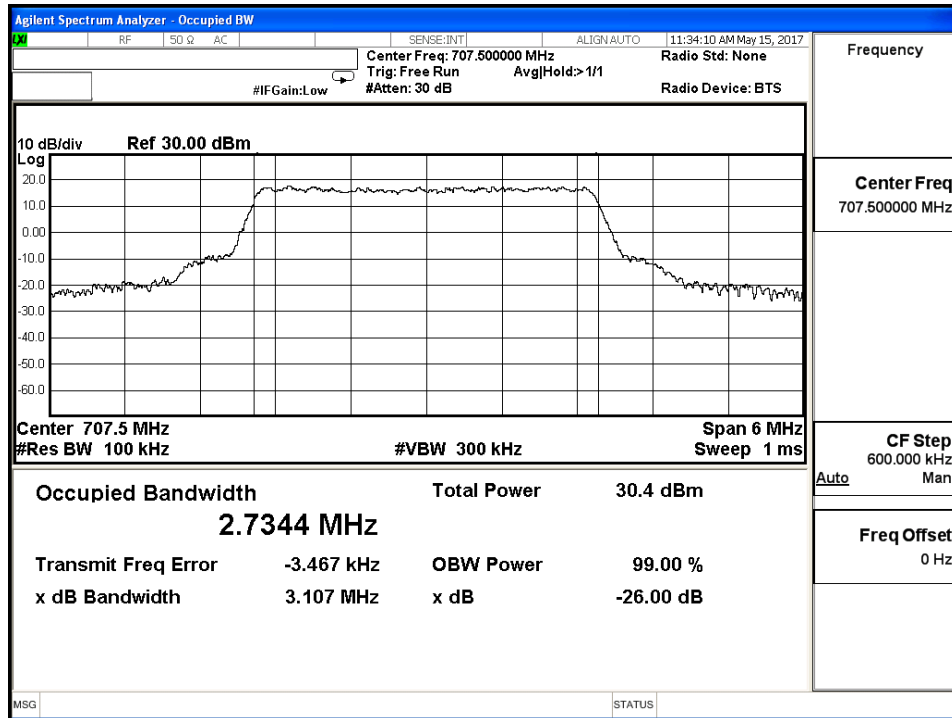


Band 12 1.4M 16QAM - LTE Mode CH 23095

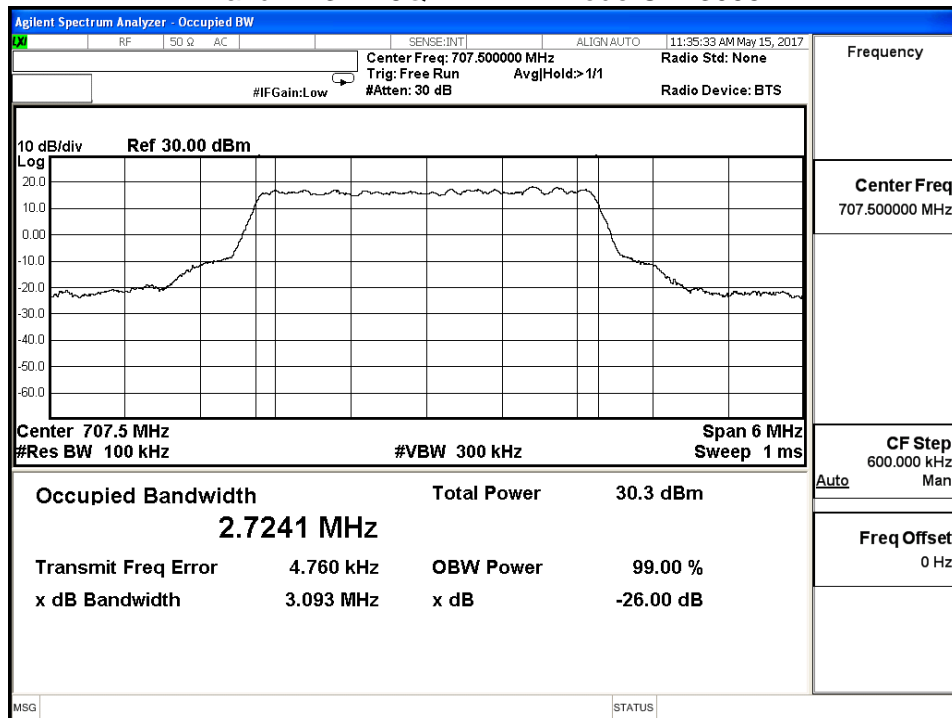


Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Occupied Bandwidth		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	Band 12 3M		

Band 12 3M QPSK - LTE Mode CH 23095

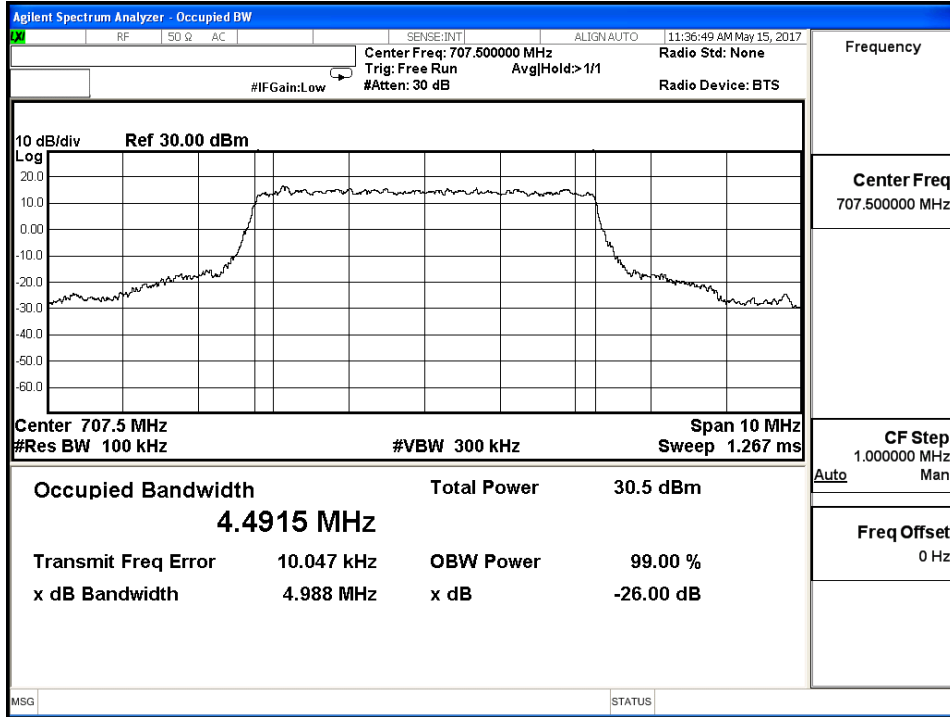


Band 12 3M 16QAM - LTE Mode CH23095

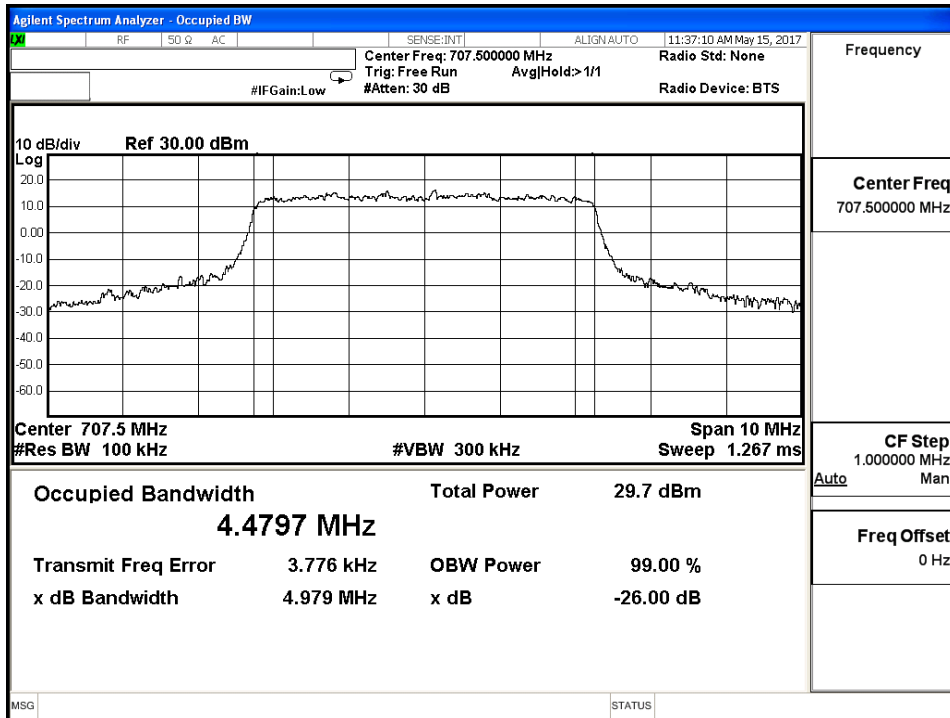


Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Occupied Bandwidth		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	Band 12 5M		

Band 12 5M QPSK - LTE Mode CH 23095

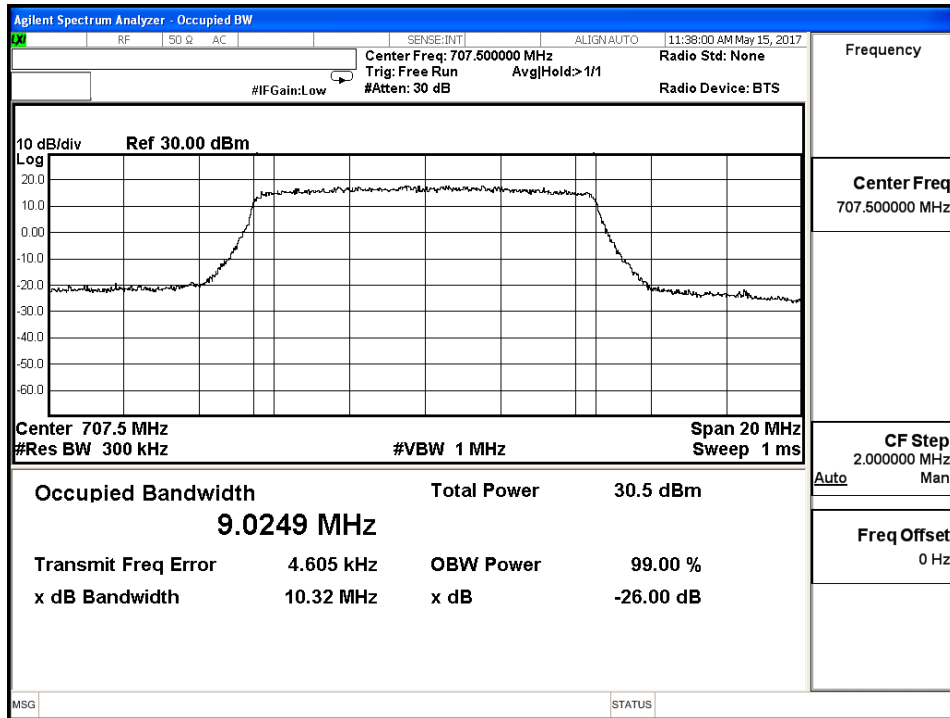


Band 12 5M 16QAM - LTE Mode CH23095

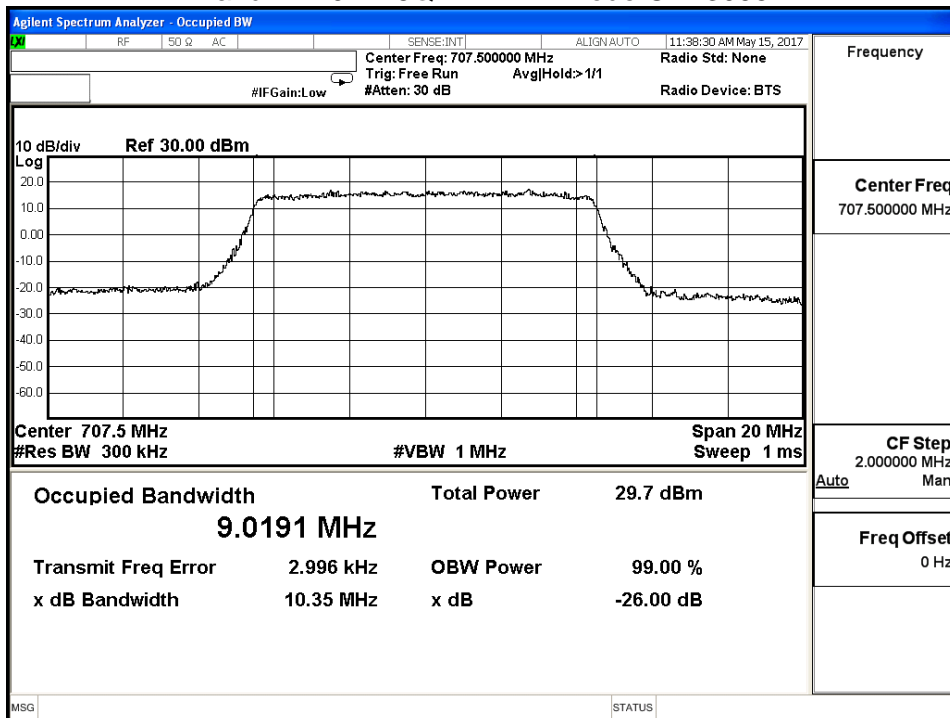


Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Occupied Bandwidth		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	Band 12 10M		

Band 12 10M QPSK - LTE Mode CH 23095

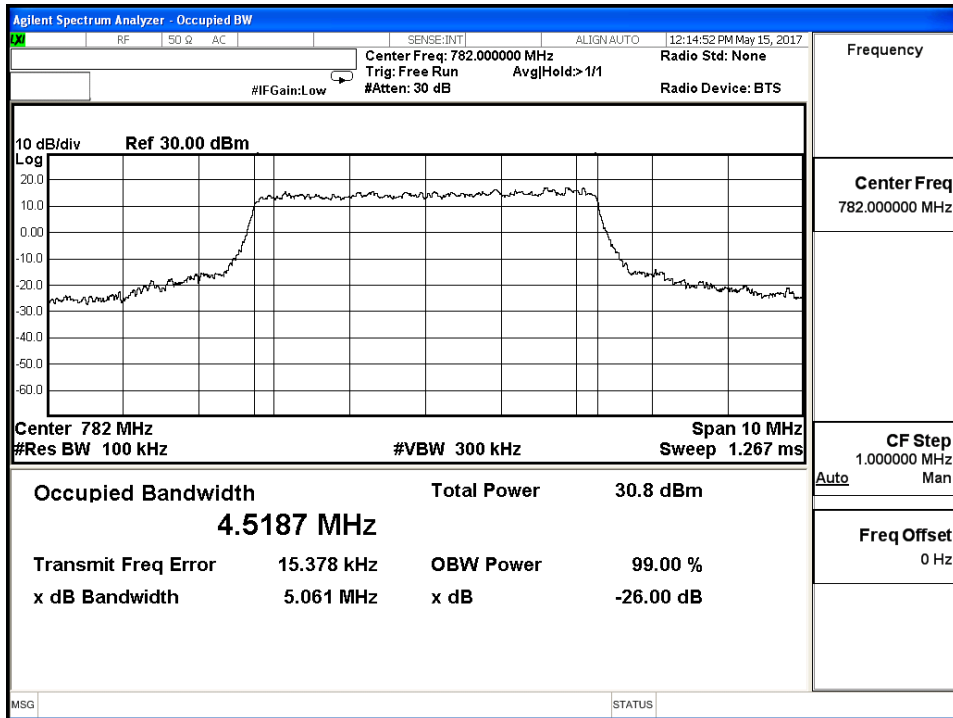


Band 12 10M 16QAM - LTE Mode CH23095

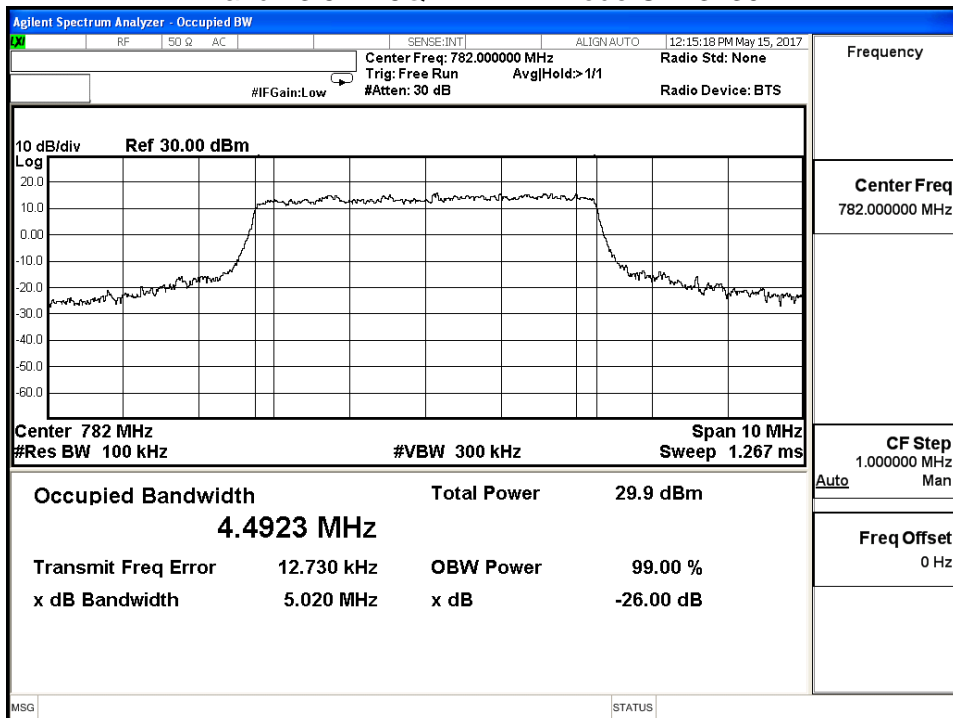


Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Occupied Bandwidth		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	Band 13 5M		

Band 13 5M QPSK - LTE Mode CH 23230

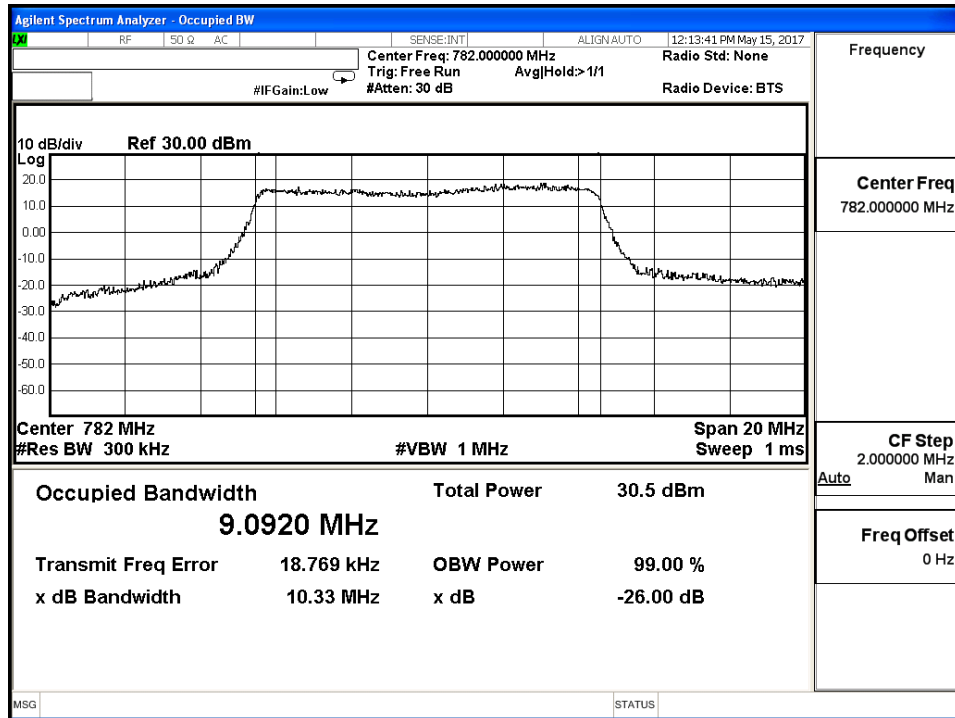


Band 13 5M 16QAM - LTE Mode CH23230

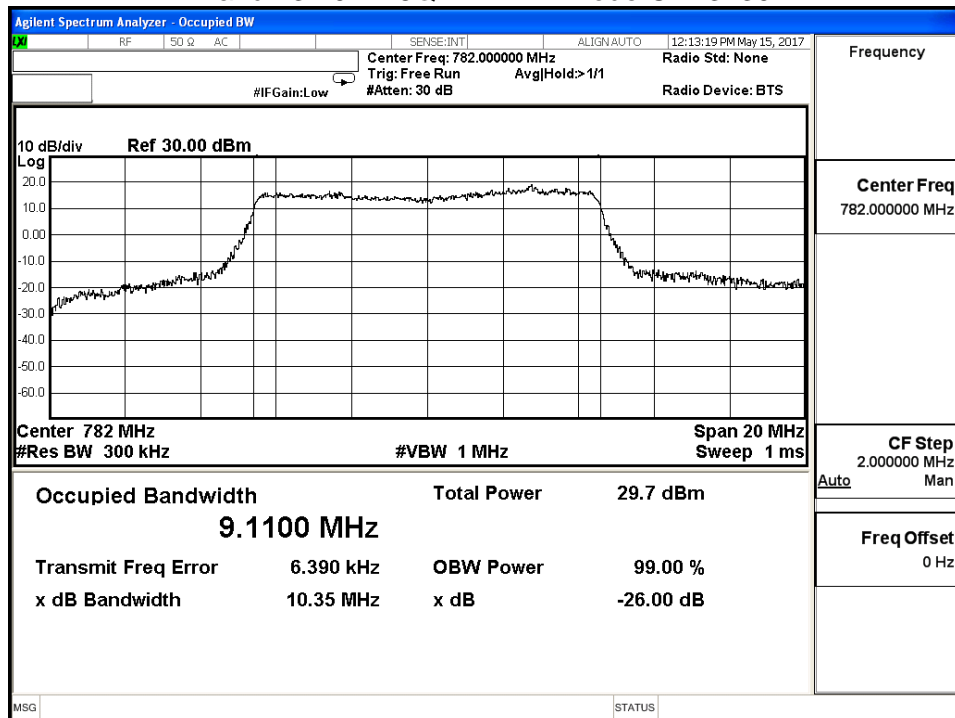


Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Occupied Bandwidth		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	Band 13 10M		

Band 13 10M QPSK - LTE Mode CH 23230



Band 13 10M 16QAM - LTE Mode CH23230



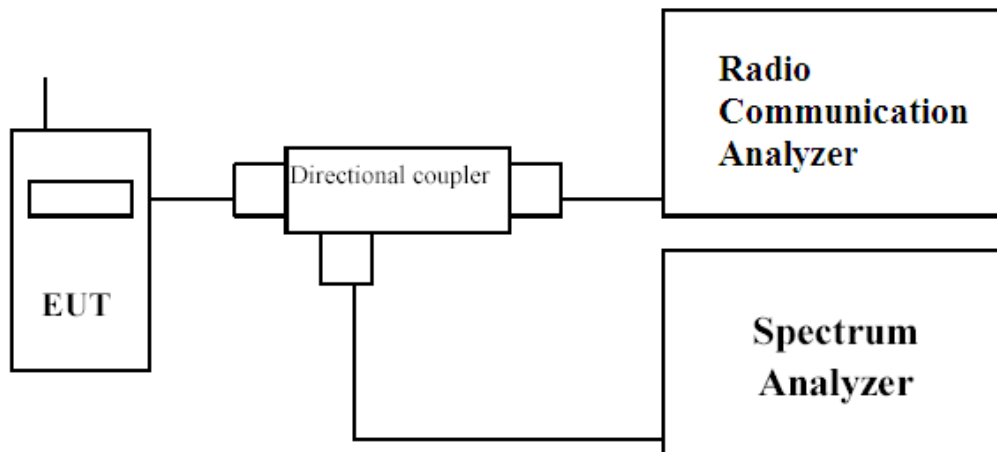
5. Spurious Emission At Antenna Terminals (+/-1MHz)

5.1. Test Specification

According to Part 2.1051, 22.917, 24.238, 27.53

RSS GEN, RSS 130, RSS 132, RSS 133, RSS 139

5.2. Setup



5.3. Limits

The spurious (unwanted) emission limits specified in the individual FCC rule parts applicable to licensed digital transmitters (typically referred to under the heading 'emission limits') normally apply to any and all emissions that are present outside of the authorized frequency band/block and apply to emissions in both the out-of-band and spurious domains. unwanted emissions are required by the licensed rule parts to be attenuated below the transmitter power by a factor of at least $43 + 10\log(P)$ dB, where P represents the transmitter power expressed in watts

5.4. Test Procedure

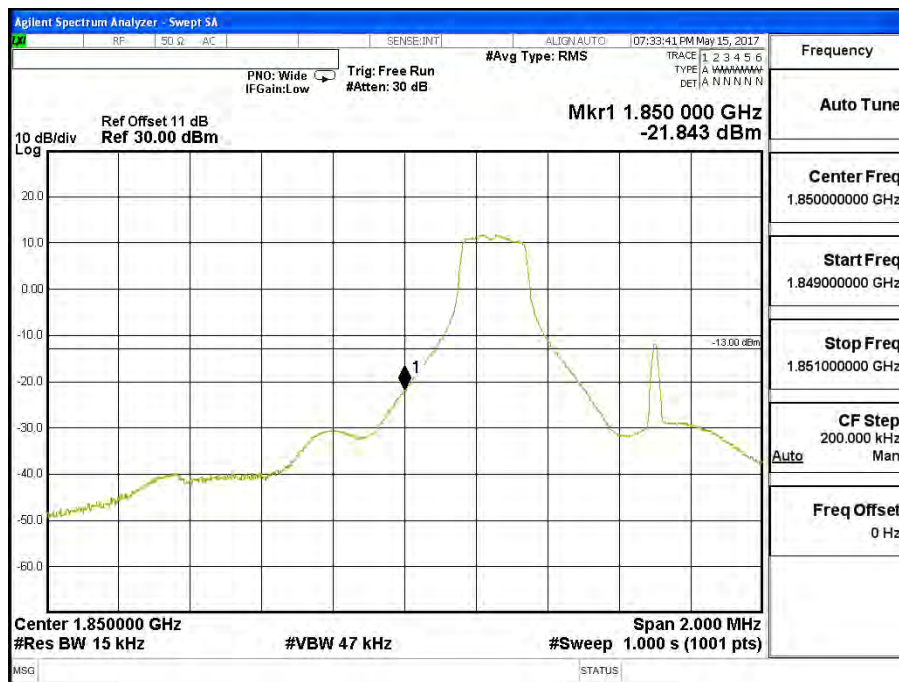
In accordance with Part 22.917, 24.238, 27.53, RSS 130, RSS 132, RSS 133, RSS 139 at least 1% of the emission bandwidth was used for the resolution and video bandwidths up to 1MHz away from the Block Edge. At greater than 1MHz, the resolution and video bandwidth were increased to 1MHz/3MHz.

The reference power and path losses of all channels used for testing in each frequency block were measured.

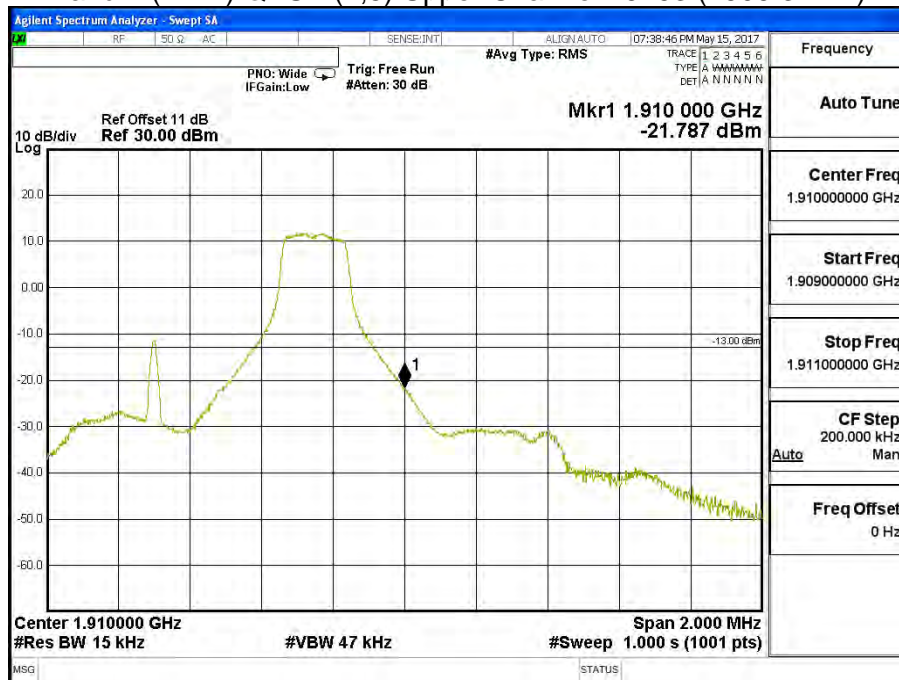
5.5. Test Result of Spurious Emission At Antenna Terminals (+/-1MHz)

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission At Antenna Terminals (+/-1MHz)		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	Block Edge Test (Band 2 (1.4M))		

Band 2 (1.4M) QPSK (1,0) Lower Channel 18607 (1850.7MHz)



Band 2 (1.4M) QPSK (1,5) Upper Channel 19193 (1909.3MHz)



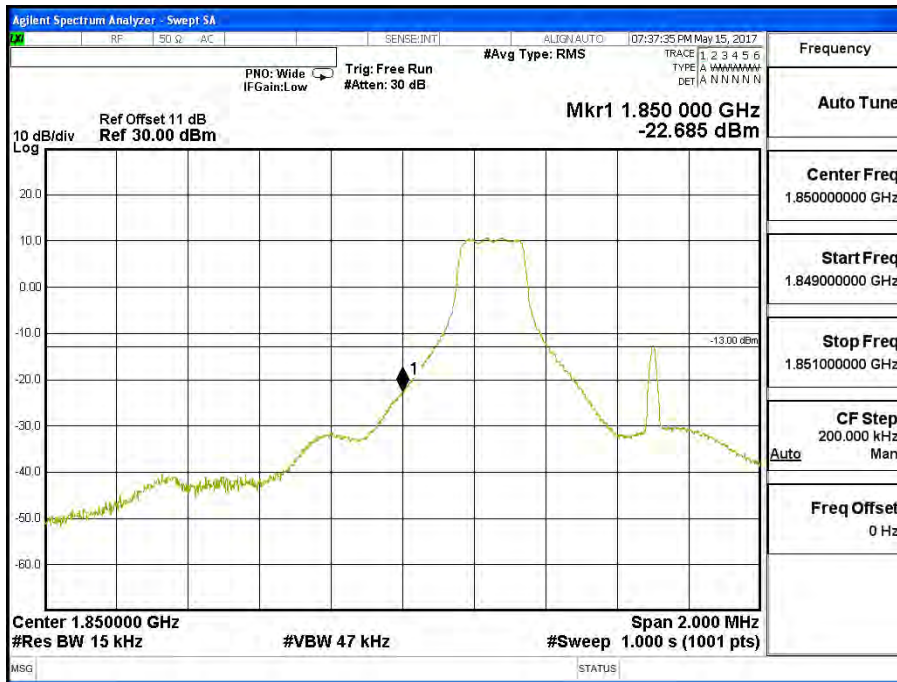
Band 2 (1.4M) QPSK (6,0) Lower Channel 18607 (1850.7MHz)



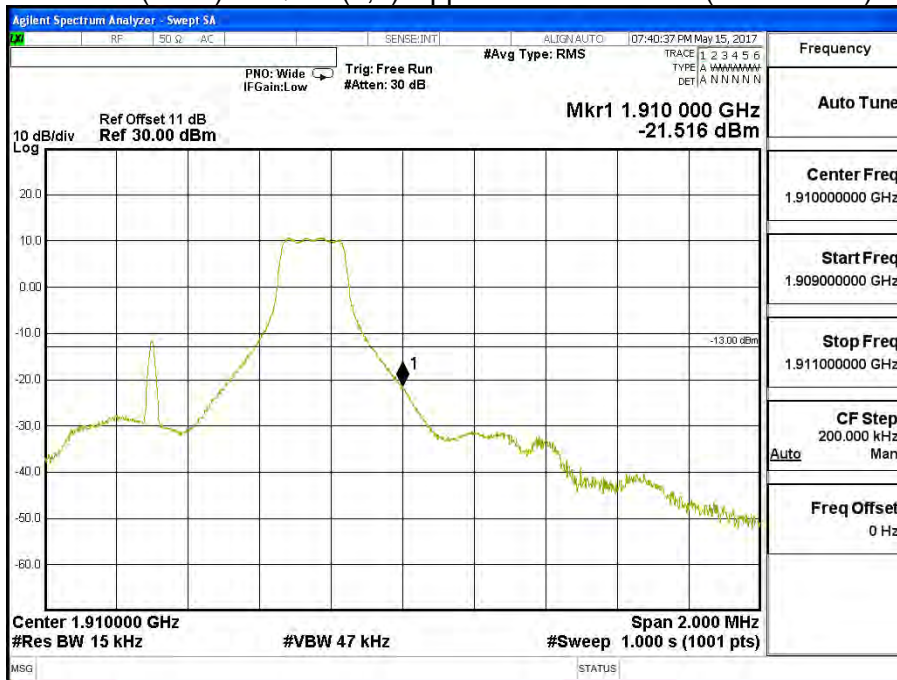
Band 2 (1.4M) QPSK (6,0) Upper Channel 19193 (1909.3MHz)



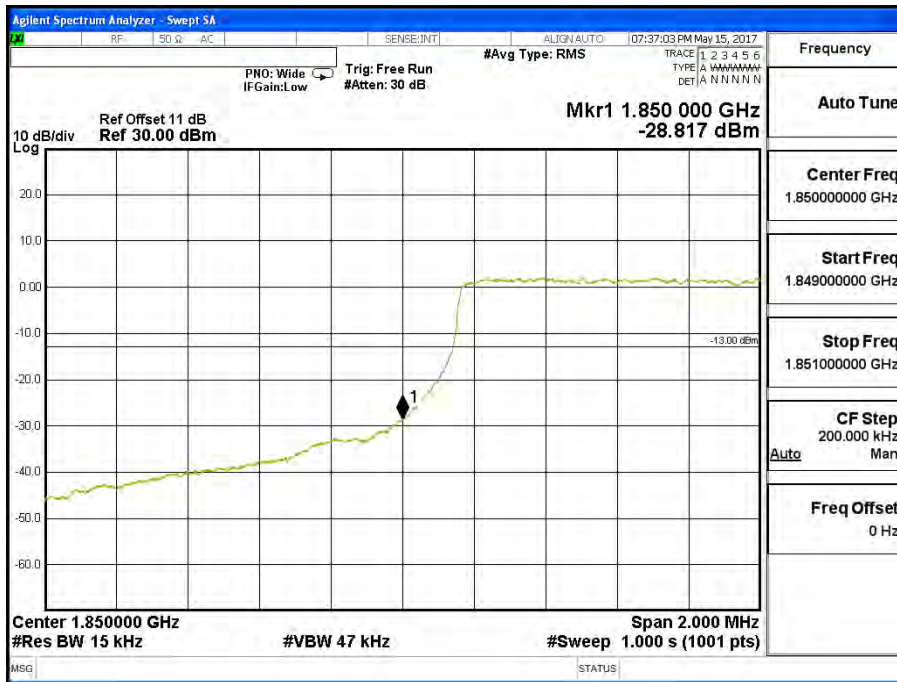
Band 2 (1.4M) 16QAM (1,0) Lower Channel 18607 (1850.7MHz)



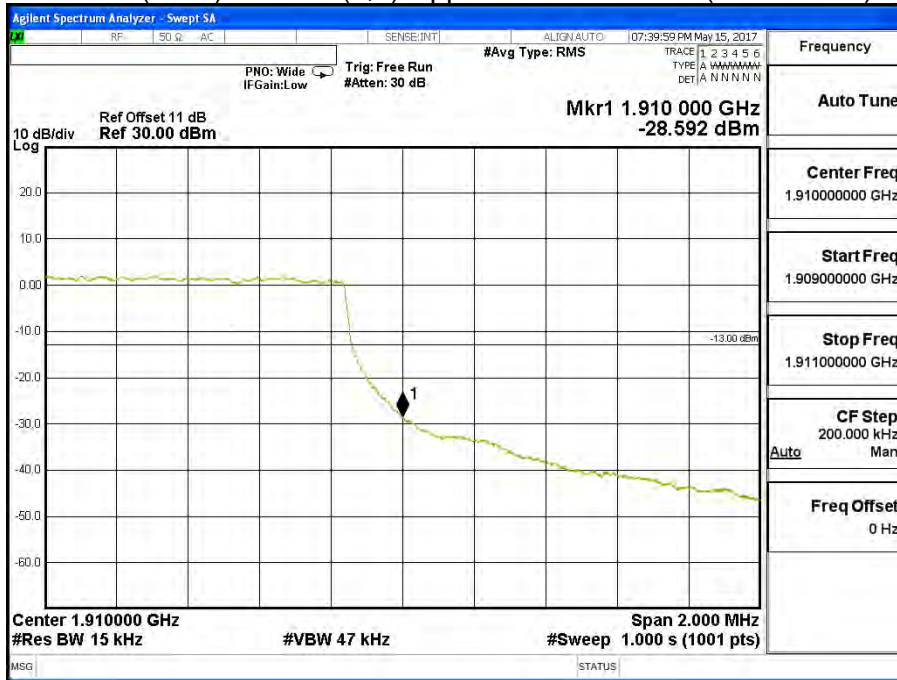
Band 2 (1.4M) 16QAM (1,5) Upper Channel 19193 (1909.3MHz)



Band 2 (1.4M) 16QAM (6,0) Lower Channel 18607 (1850.7MHz)

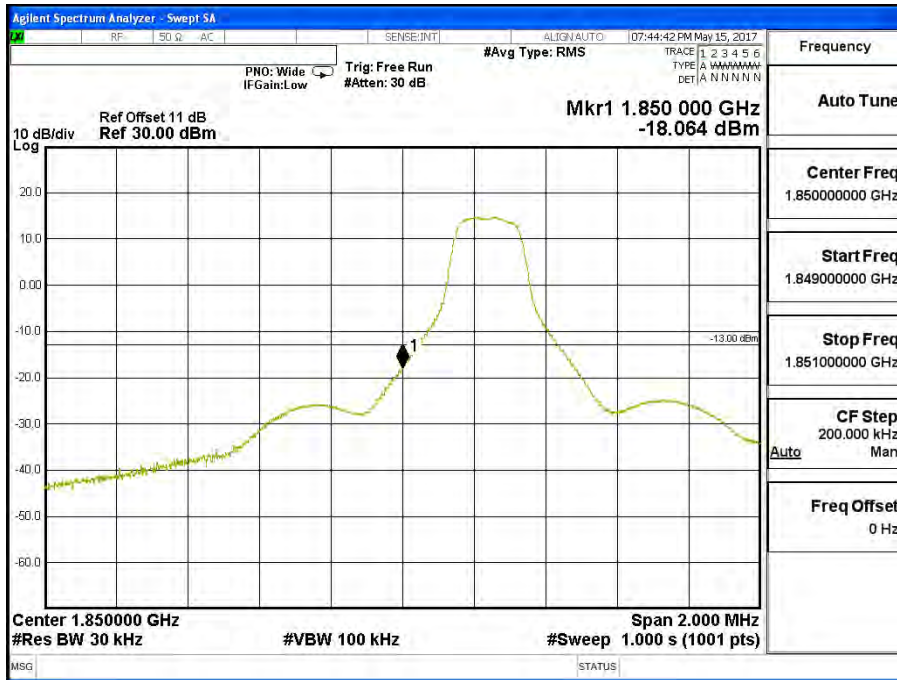


Band 2 (1.4M) 16QAM (6,0) Upper Channel 19193 (1909.3MHz)

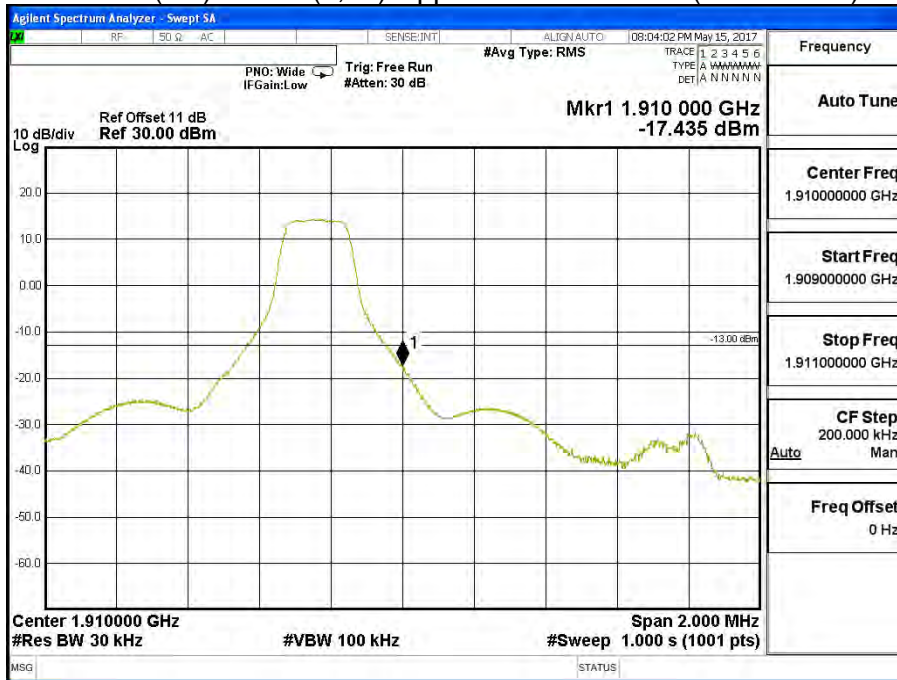


Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission At Antenna Terminals (+/-1MHz)		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	Block Edge Test (Band 2 (3M))		

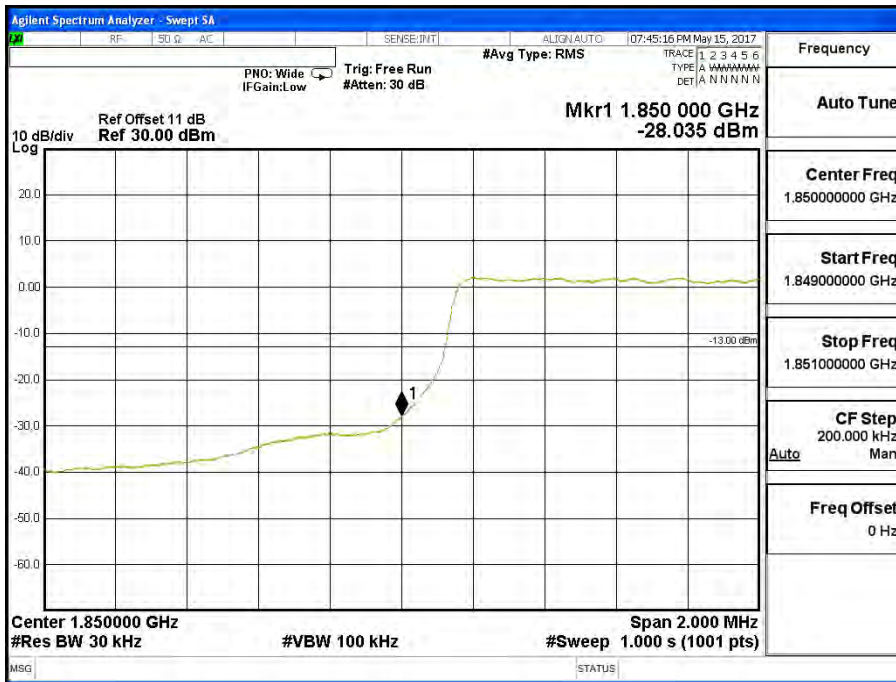
Band 2 (3M) QPSK (1,0) Lower Channel 18615 (1851.5MHz)



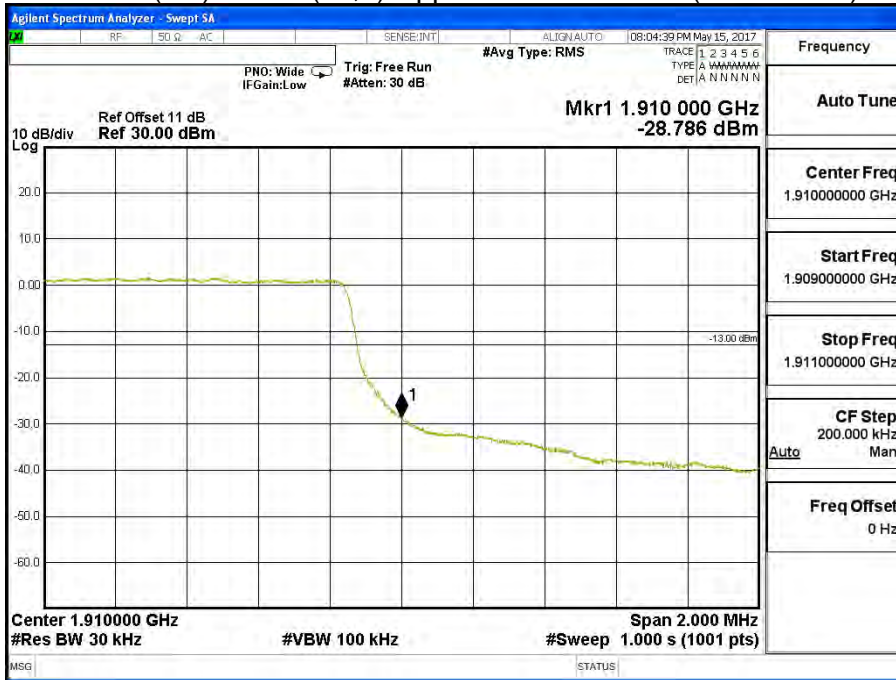
Band 2 (3M) QPSK (1,14) Upper Channel 19185 (1908.5MHz)



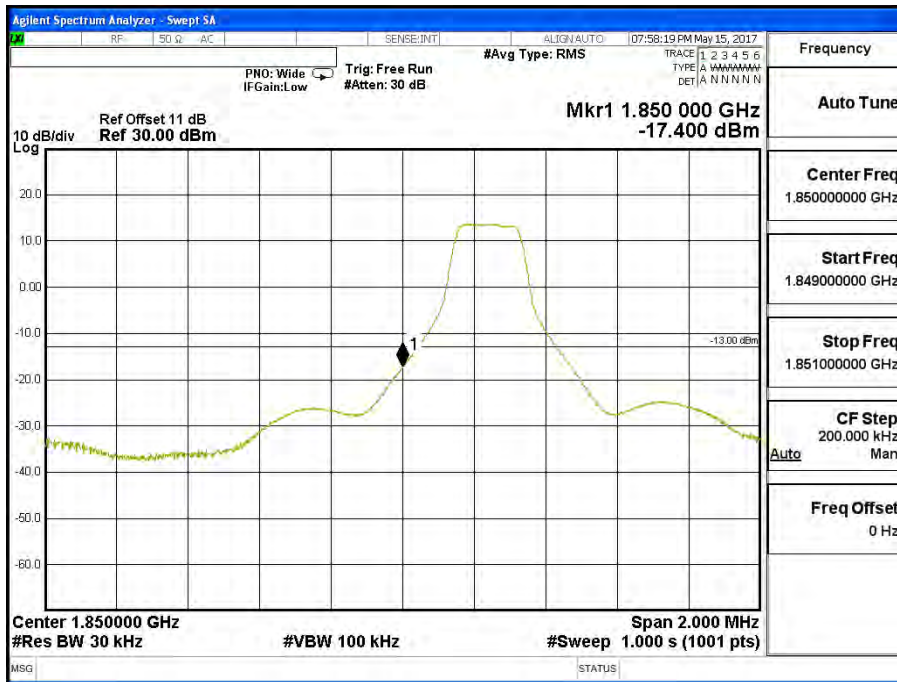
Band 2 (3M) QPSK (15,0) Lower Channel 18615 (1851.5MHz)



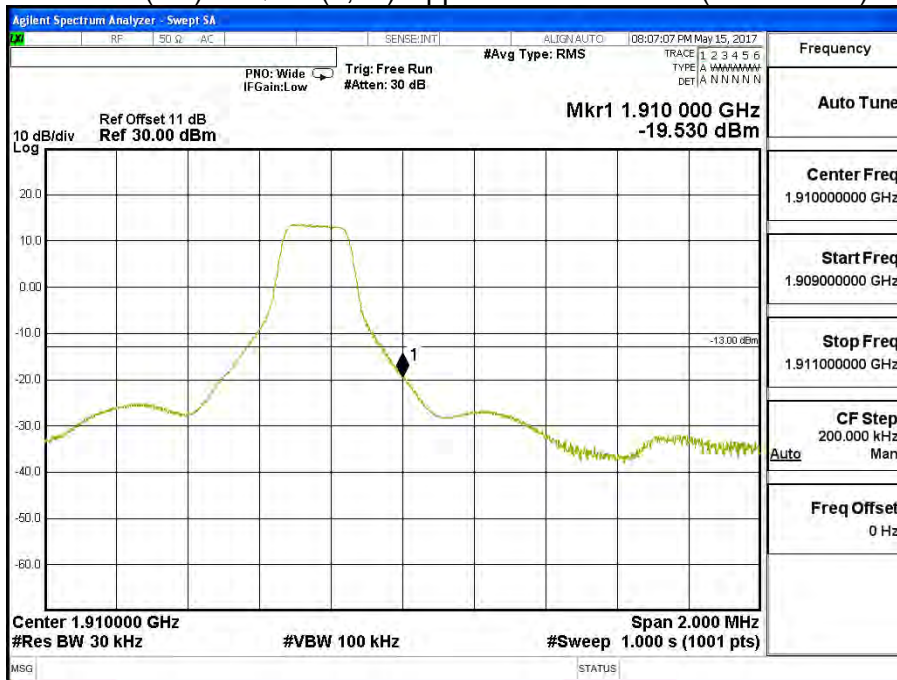
Band 2 (3M) QPSK (15,0) Upper Channel 19185 (1908.5MHz)



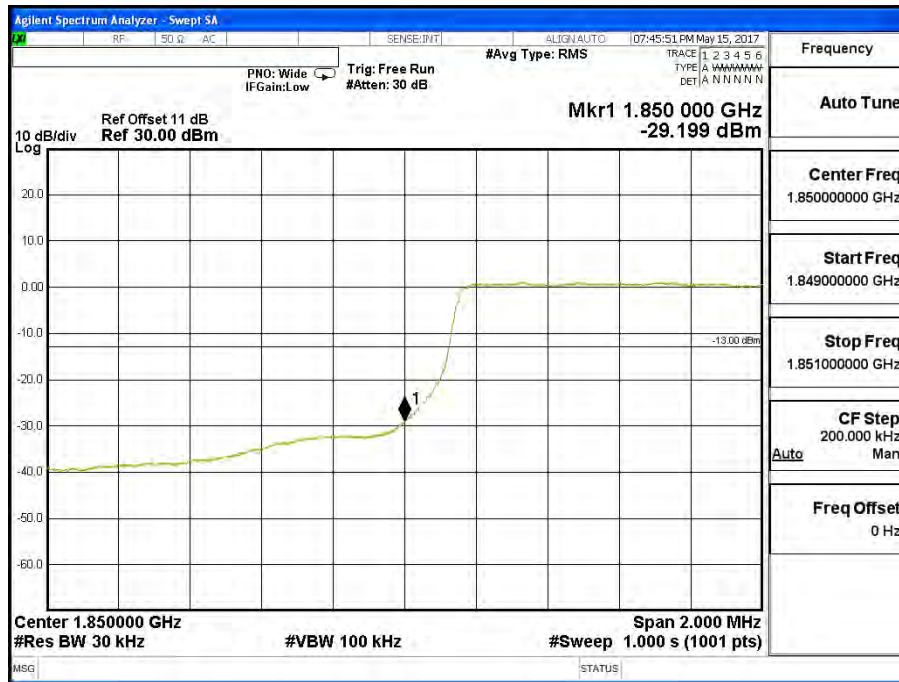
Band 2 (3M) 16QAM (1,0) Lower Channel 18615 (1851.5MHz)



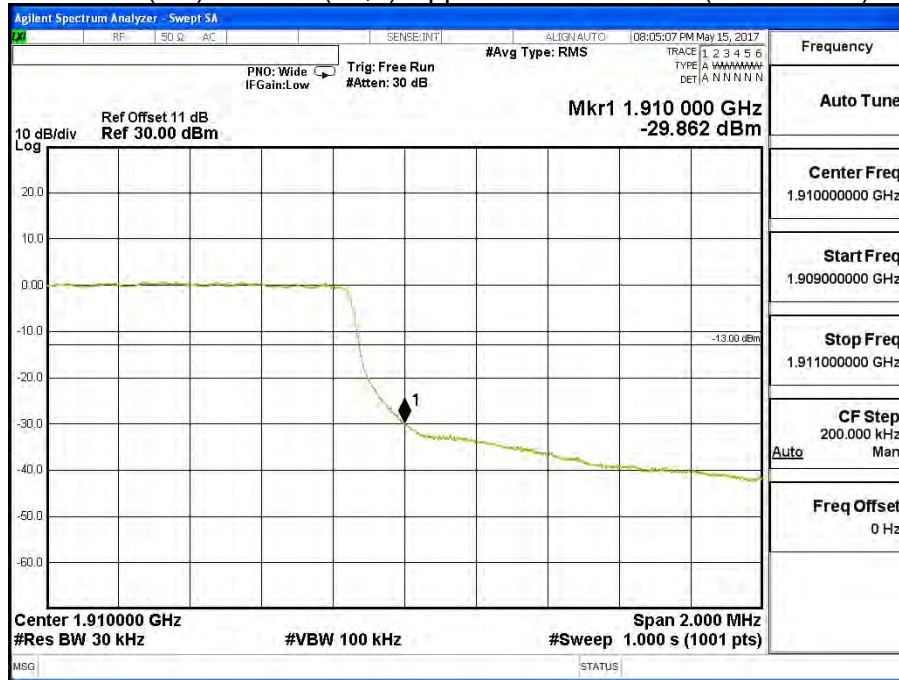
Band 2 (3M) 16QAM (1,14) Upper Channel 19185 (1908.5MHz)



Band 2 (3M) 16QAM (15,0) Lower Channel 18615 (1851.5MHz)

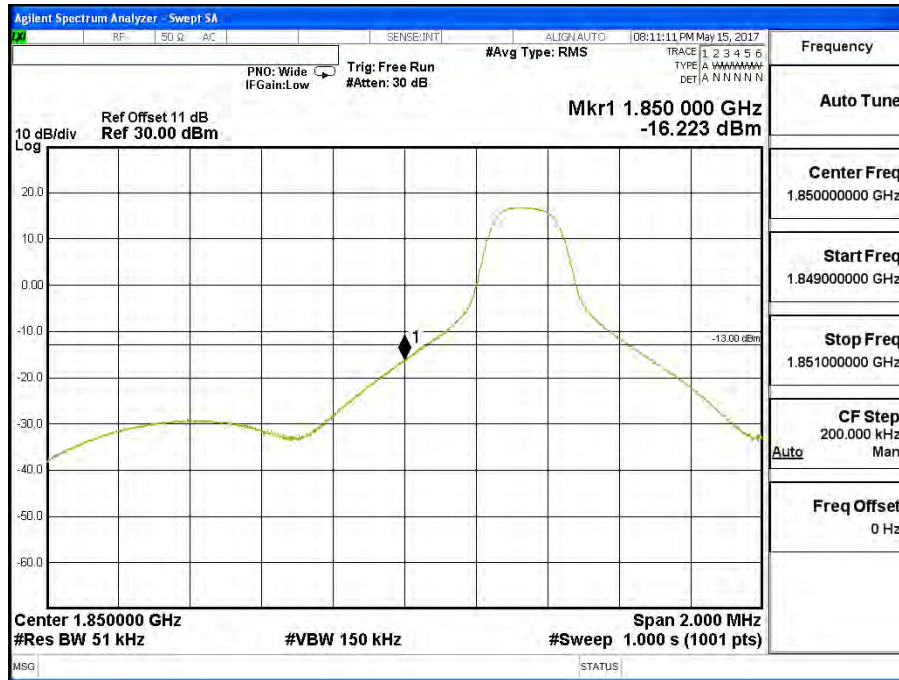


Band 2 (3M) 16QAM (15,0) Upper Channel 19185 (1908.5MHz)



Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission At Antenna Terminals (+/-1MHz)		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	Block Edge Test (Band 2 (5M))		

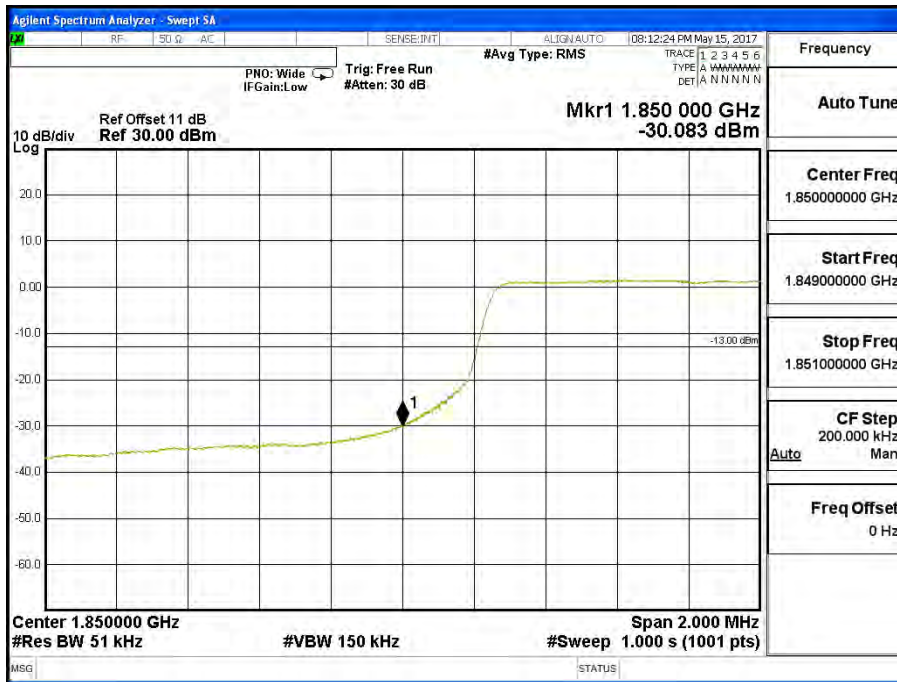
Band 2 (5M) QPSK(1,0) Lower Channel 18625 (1852.5MHz)



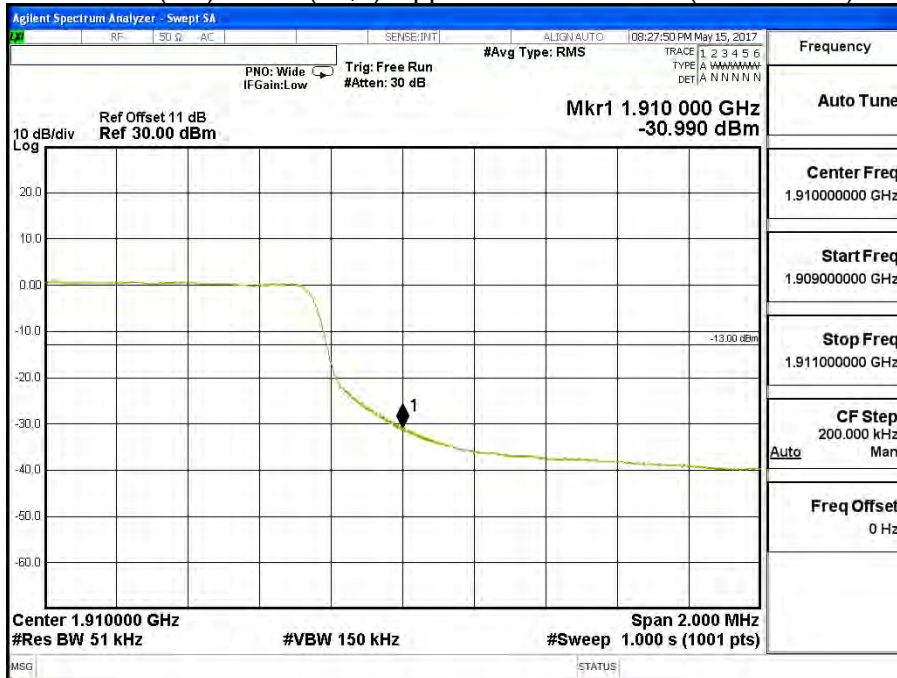
Band 2 (5M) QPSK(1,24) Upper Channel 19175 (1907.5MHz)



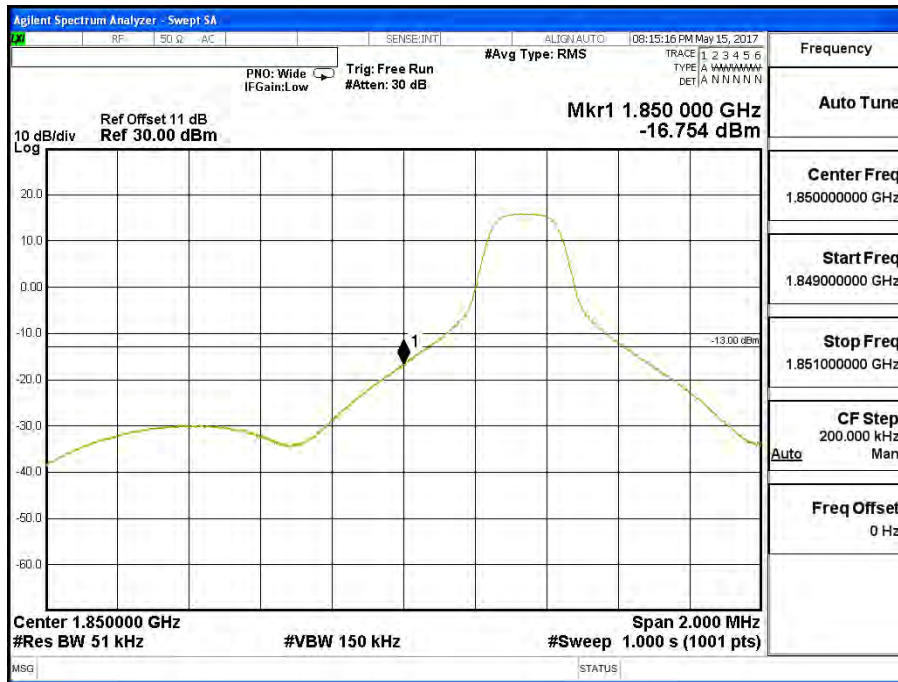
Band 2 (5M) QPSK(25,0) Lower Channel 18625 (1852.5MHz)



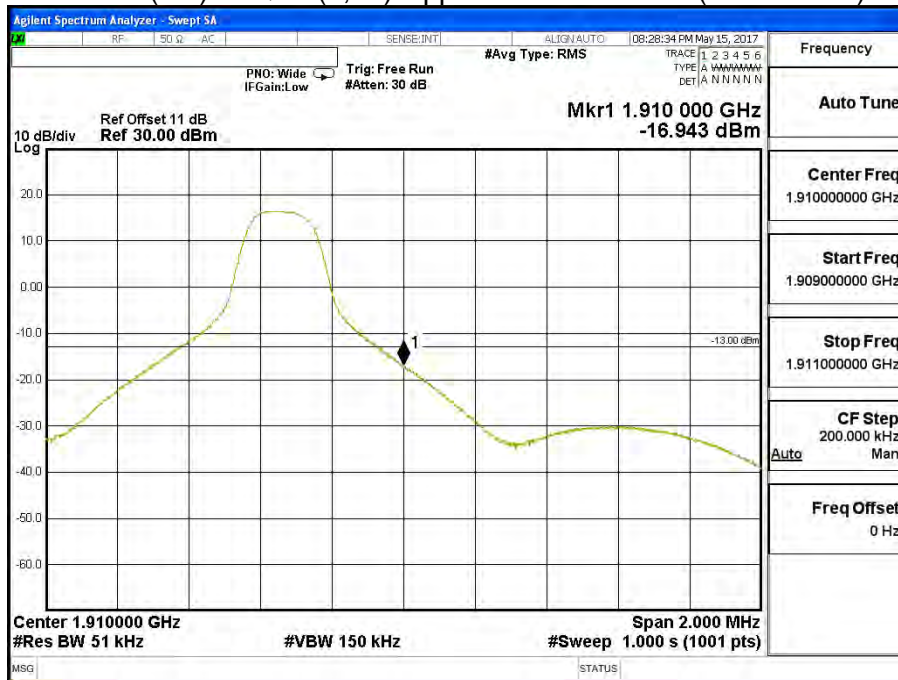
Band 2 (5M) QPSK(25,0) Upper Channel 19175 (1907.5MHz)



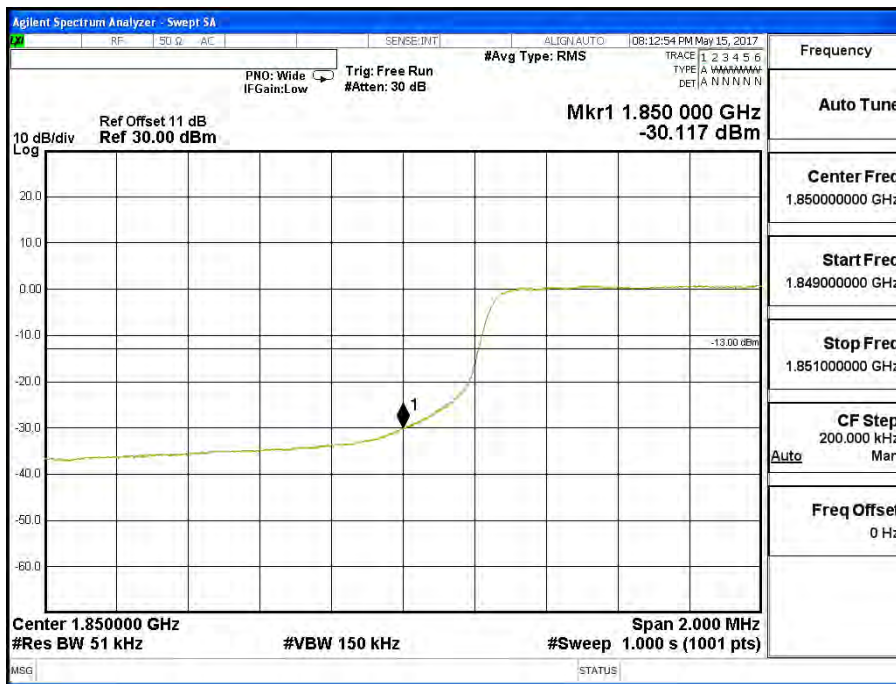
Band 2 (5M) 16QAM(1,0) Lower Channel 18625 (1852.5MHz)



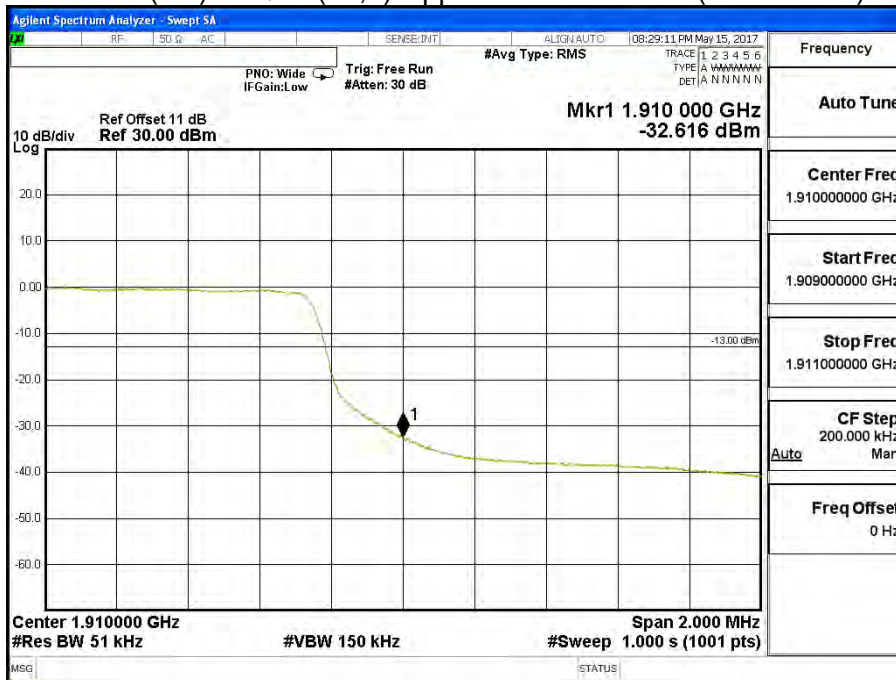
Band 2 (5M) 16QAM(1,24) Upper Channel 19175 (1907.5MHz)



Band 2 (5M) 16QAM(25,0) Lower Channel 18625 (1852.5MHz)

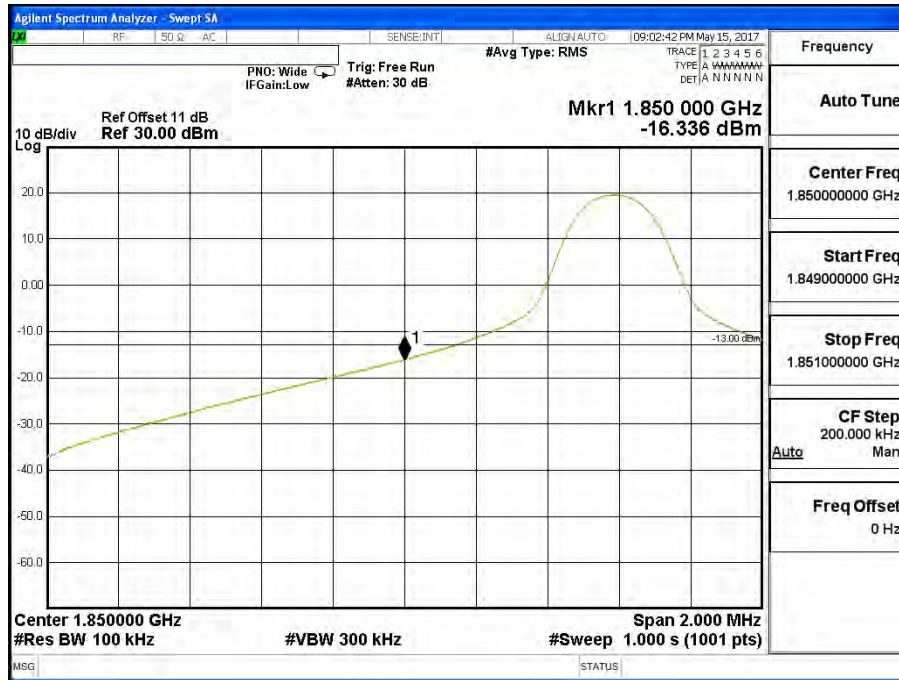


Band 2 (5M) 16QAM(25,0) Upper Channel 19175 (1907.5MHz)



Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission At Antenna Terminals (+/-1MHz)		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	Block Edge Test (Band 2 (10M))		

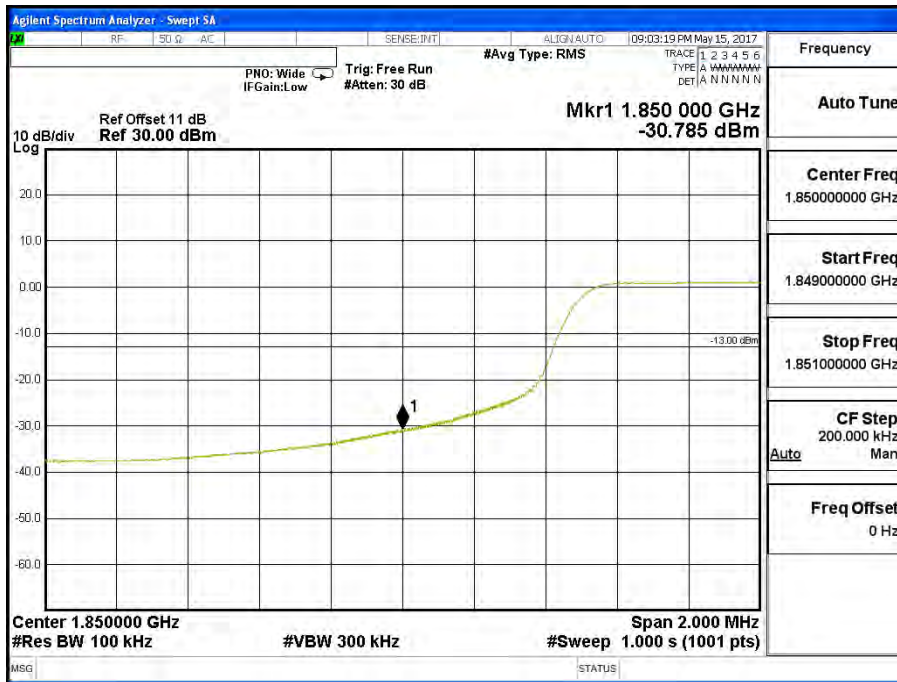
Band 2 (10M) QPSK(1,0) Lower Channel 18650 (1855MHz)



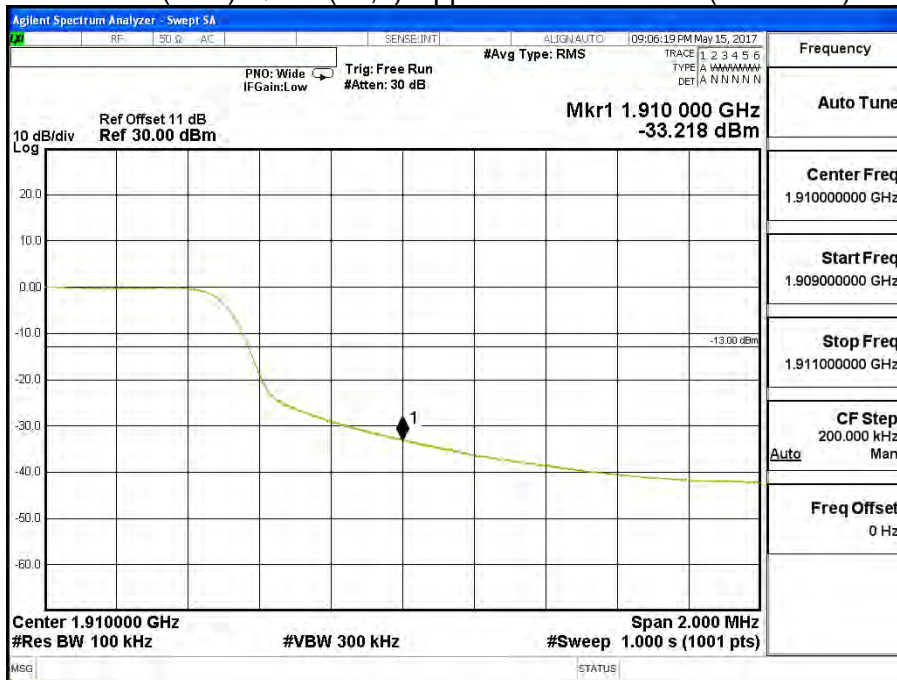
Band 2 (10M) QPSK(1,49) Upper Channel 19150 (1905MHz)



Band 2 (10M) QPSK(50,0) Lower Channel 18650 (1855MHz)



Band 2 (10M) QPSK(50,0) Upper Channel 19150 (1905MHz)



Band 2 (10M) 16QAM(1,0) Lower Channel 18650 (1855MHz)



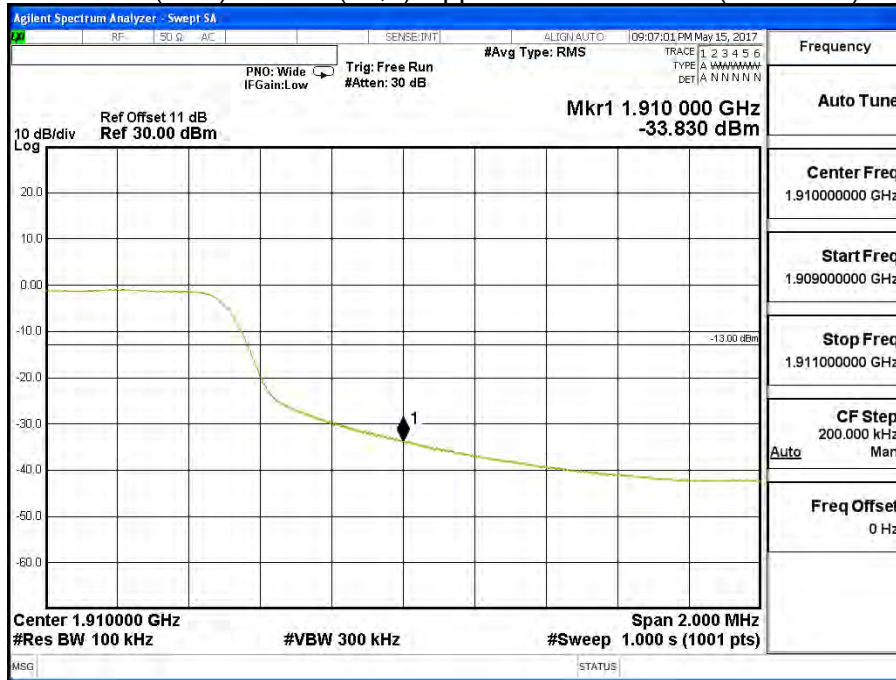
Band 2 (10M) 16QAM(1,49) Upper Channel 19150 (1905MHz)



Band 2 (10M) 16QAM(50,0) Lower Channel 18650 (1855MHz)

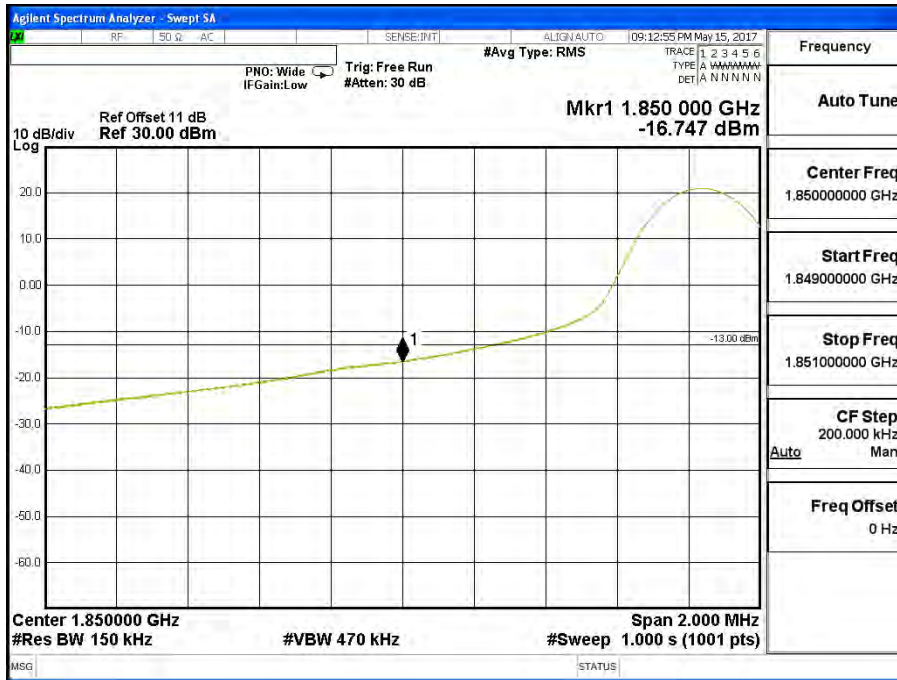


Band 2 (10M) 16QAM(50,0) Upper Channel 19150 (1905MHz)

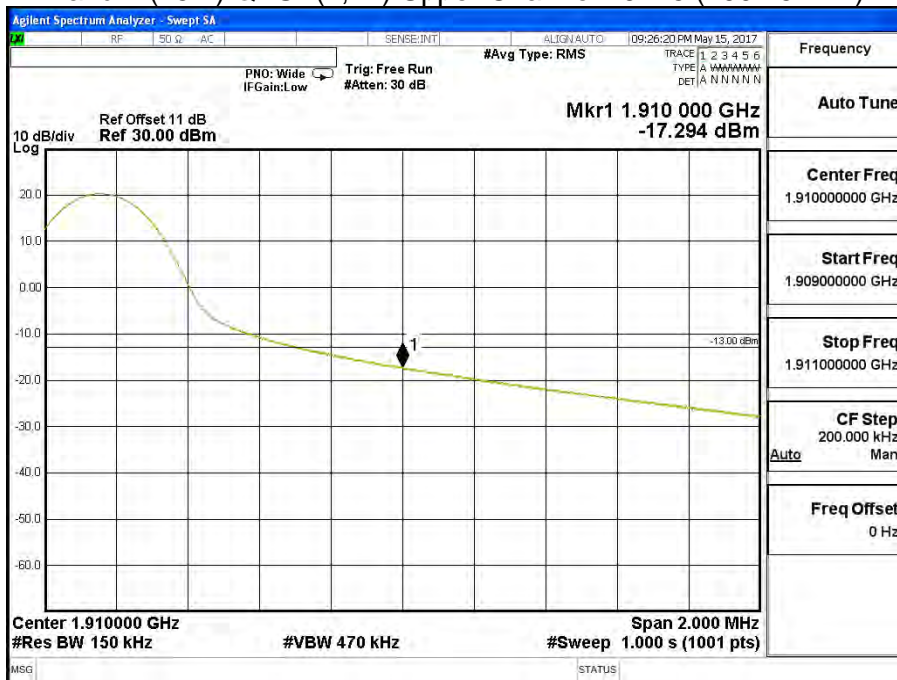


Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission At Antenna Terminals (+/-1MHz)		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	Block Edge Test (Band 2 (15M))		

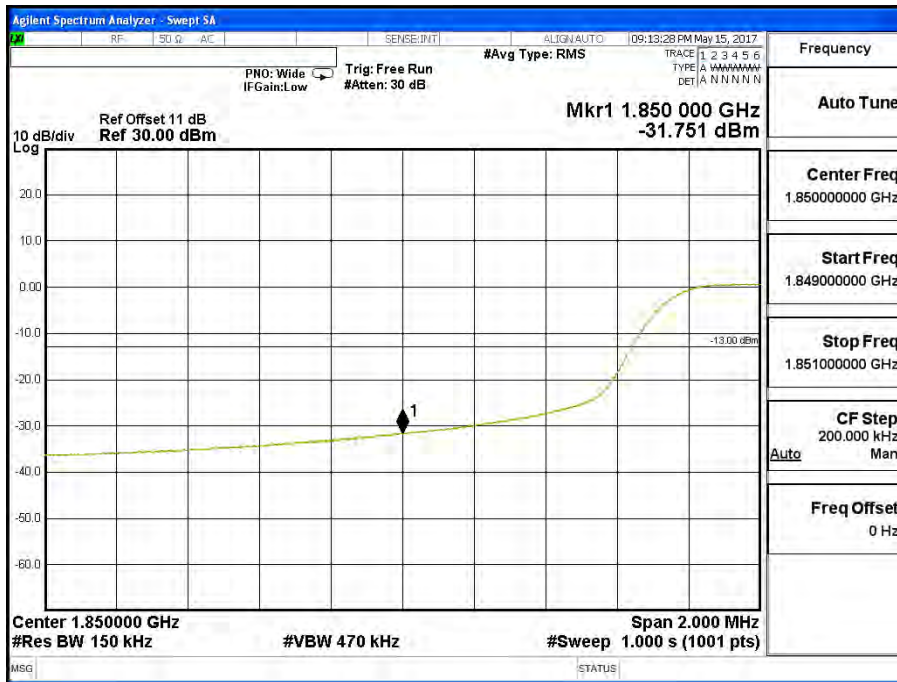
Band 2 (15M)QPSK(1,0) Lower Channel 18675 (1857.5MHz)



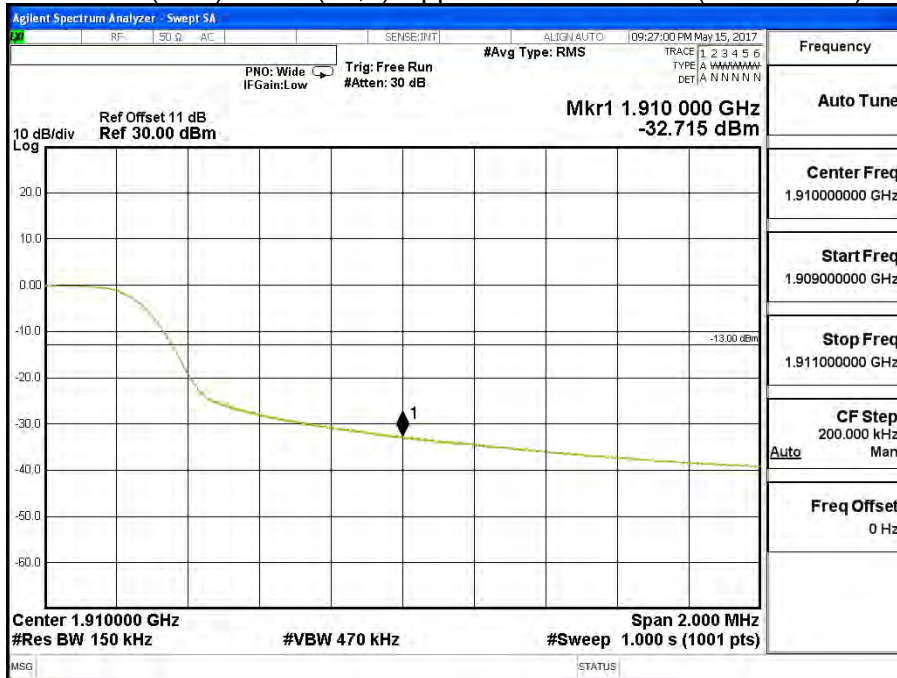
Band 2 (15M) QPSK(1,74) Upper Channel 19125 (1902.5MHz)



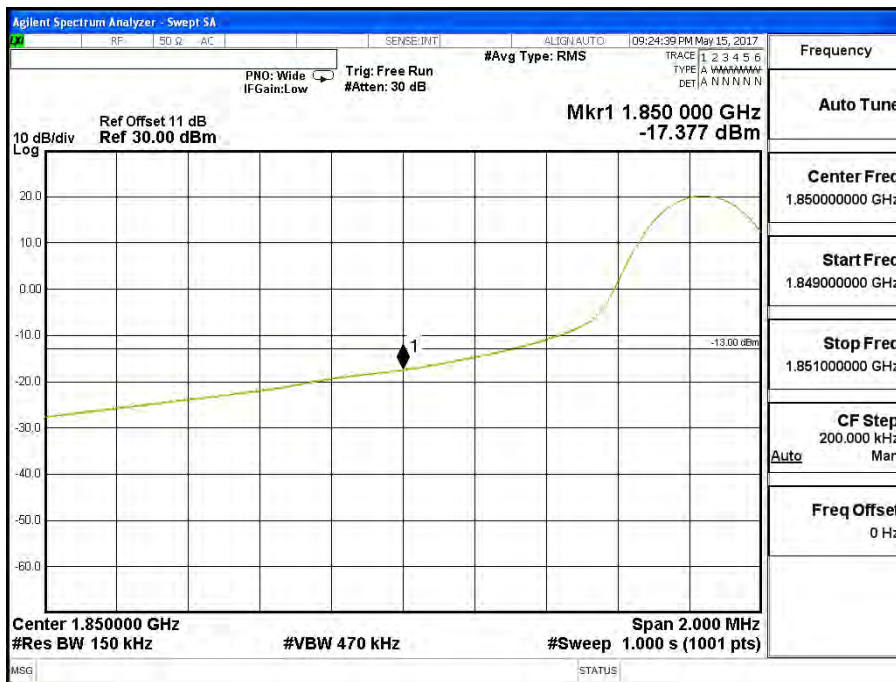
Band 2 (15M) QPSK(75,0) Lower Channel 18675 (1857.5MHz)



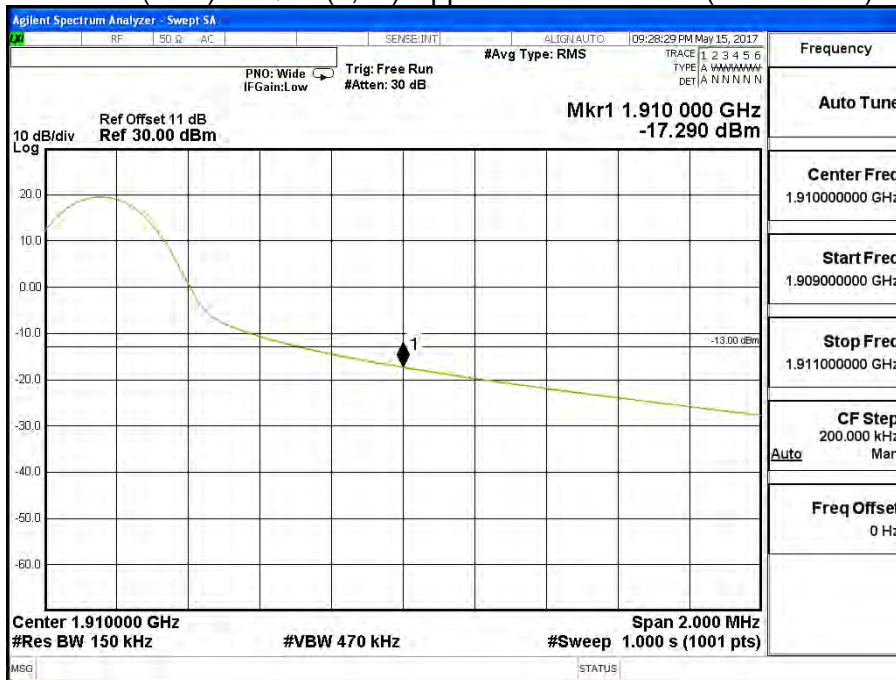
Band 2 (15M) QPSK(75,0) Upper Channel 19125 (1902.5MHz)



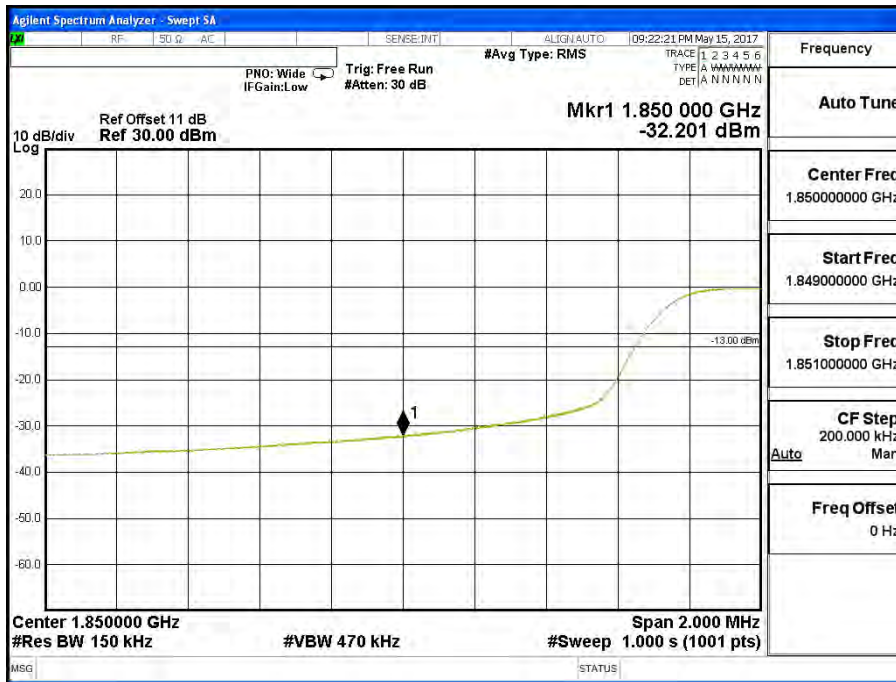
Band 2 (15M) 16QAM(1,0) Lower Channel 18675 (1857.5MHz)



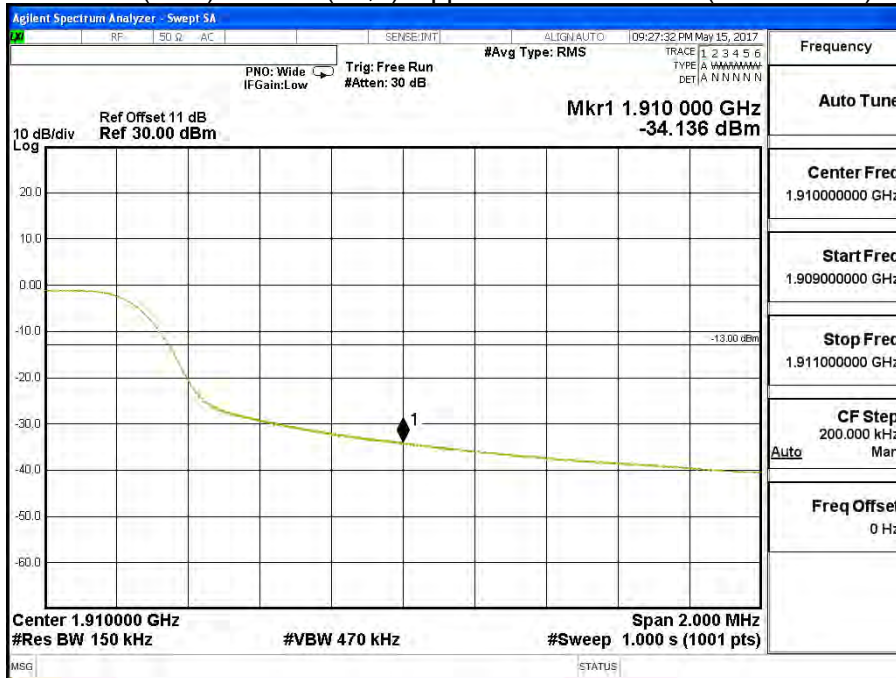
Band 2 (15M) 16QAM(1,74) Upper Channel 19125 (1902.5MHz)



Band 2 (15M) 16QAM(75,0) Lower Channel 18675 (1857.5MHz)

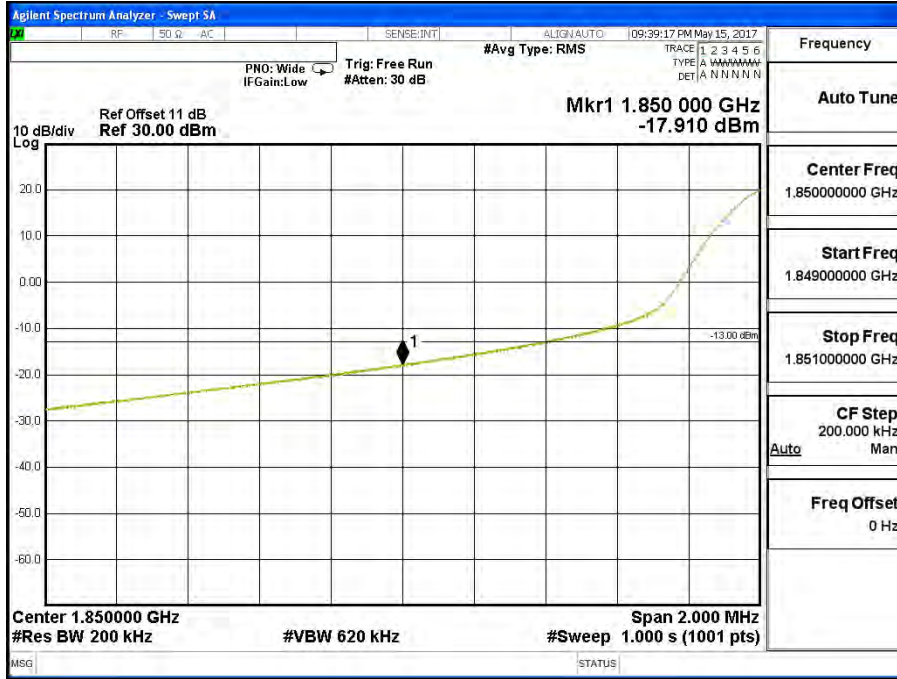


Band 2 (15M) 16QAM(75,0) Upper Channel 19125 (1902.5MHz)

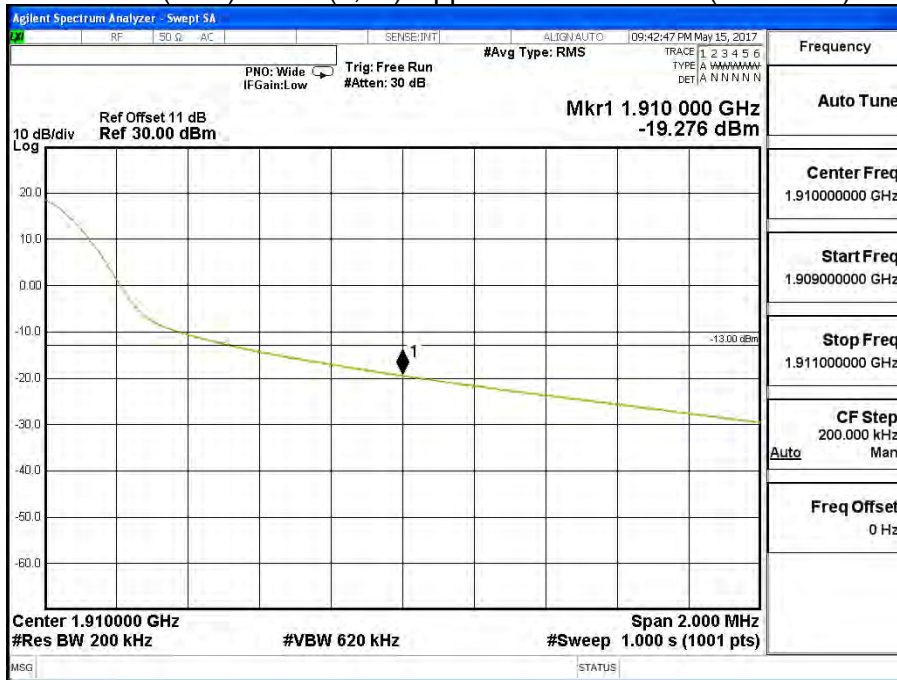


Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission At Antenna Terminals (+/-1MHz)		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	Block Edge Test (Band 2 (20M))		

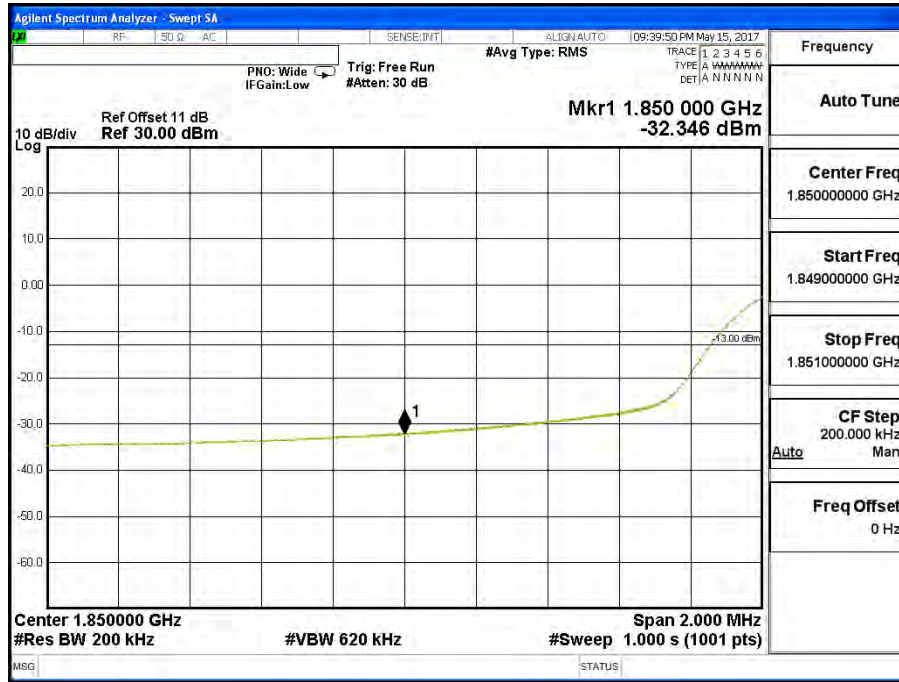
Band 2 (20M) QPSK(1,0) Lower Channel 18700 (1860MHz)



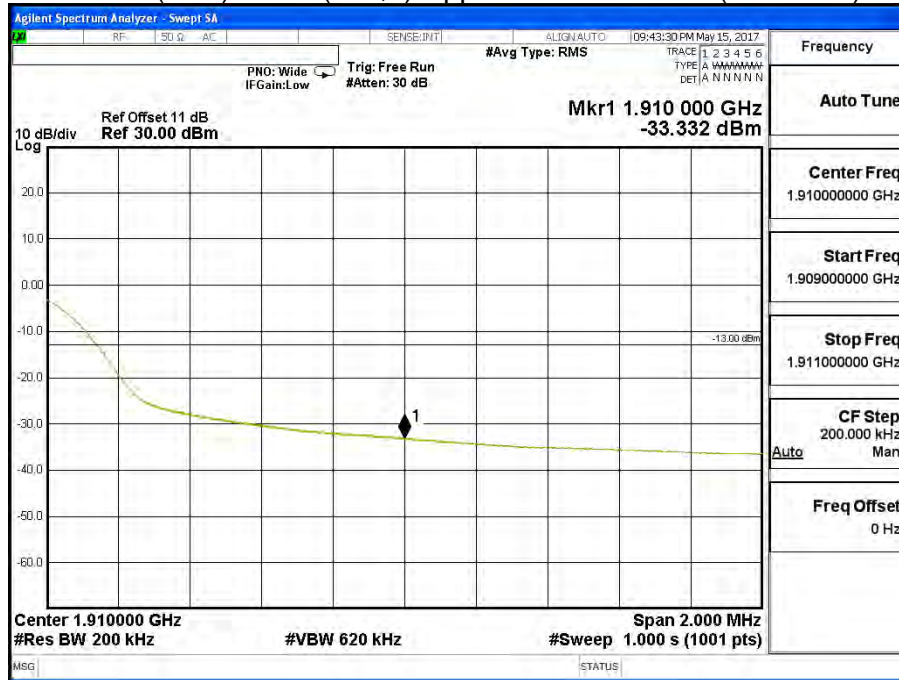
Band 2 (20M) QPSK(1,99) Upper Channel 19100 (1900MHz)



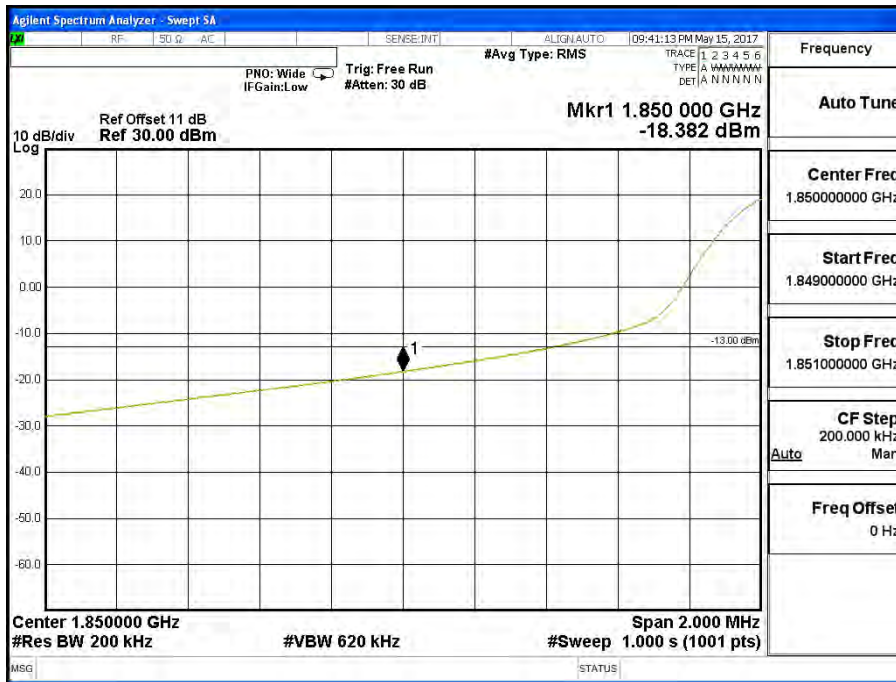
Band 2 (20M) QPSK(100,0) Lower Channel 18700 (1860MHz)



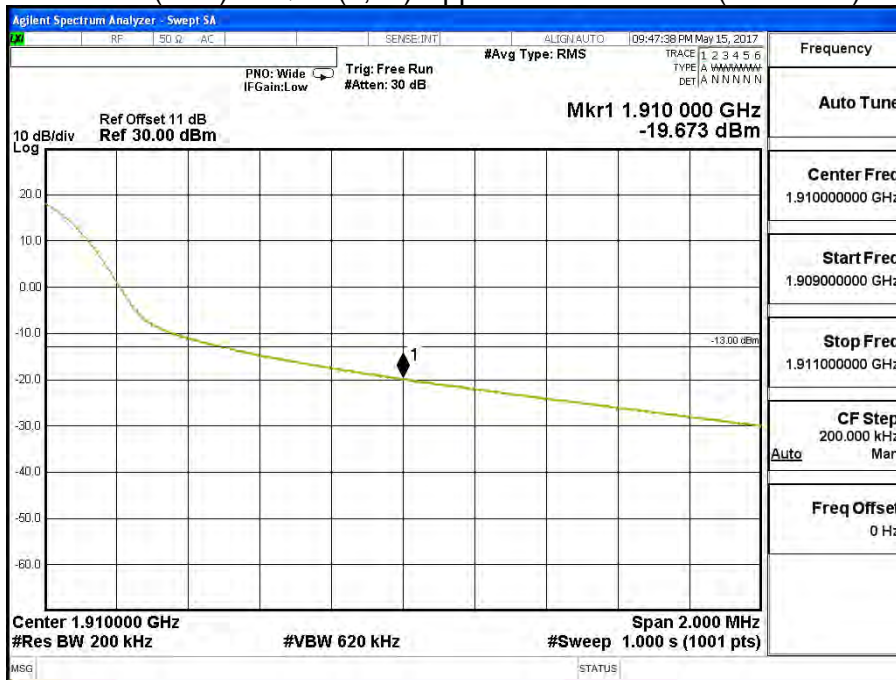
Band 2 (20M) QPSK(100,0) Upper Channel 19100 (1900MHz)



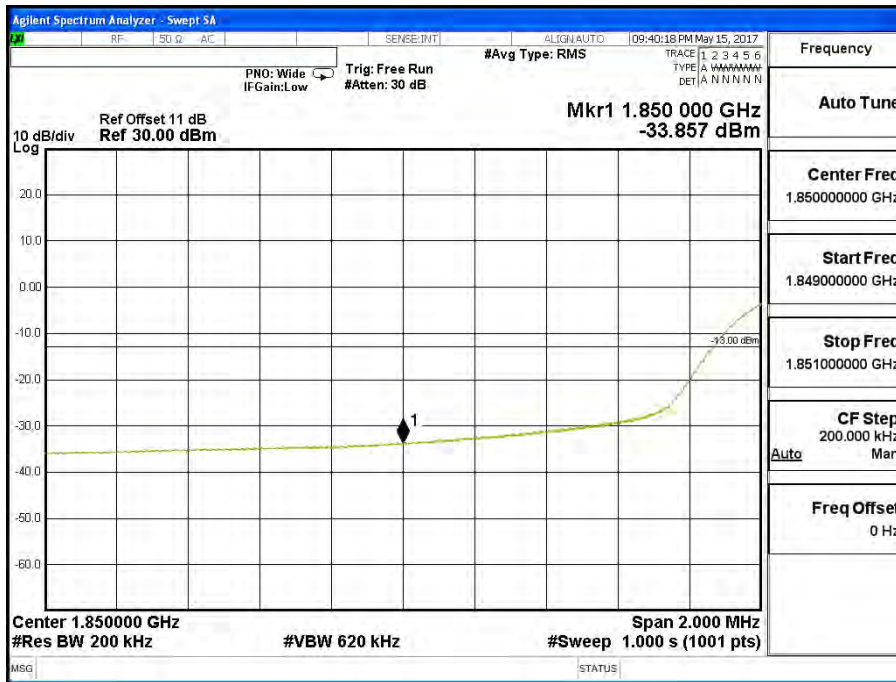
Band 2 (20M) 16QAM(1,0) Lower Channel 18700 (1860MHz)



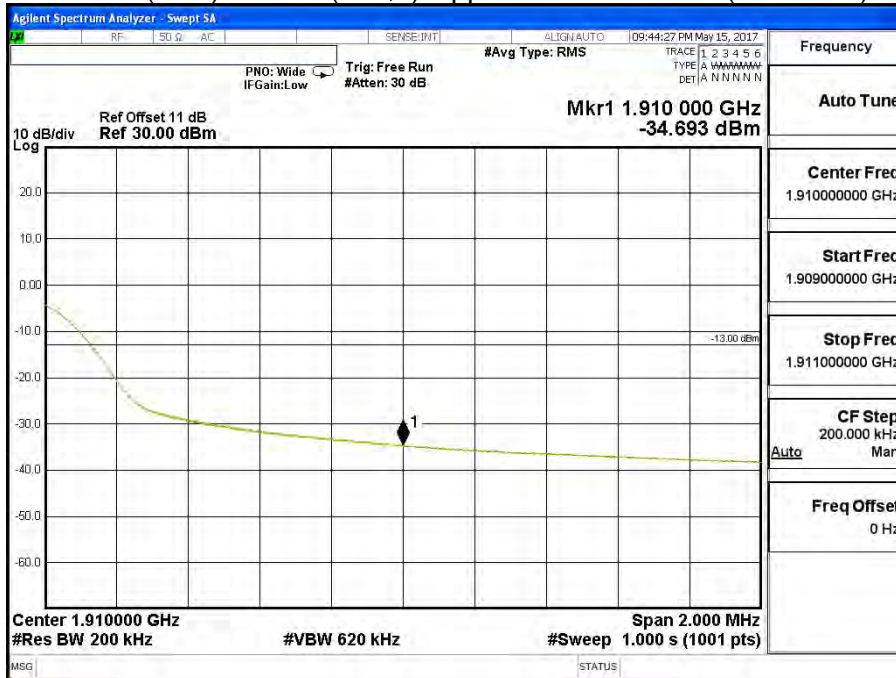
Band 2 (20M) 16QAM(1,99) Upper Channel 19100 (1900MHz)



Band 2 (20M) 16QAM(100,0) Lower Channel 18700 (1860MHz)

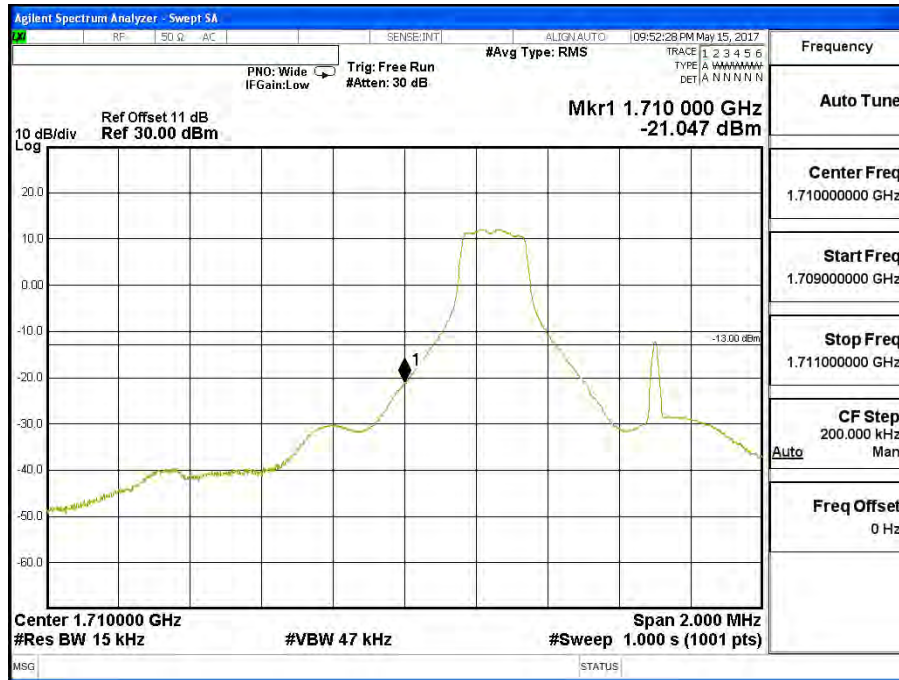


Band 2 (20M) 16QAM(100,0) Upper Channel 19100 (1900MHz)



Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission At Antenna Terminals (+/-1MHz)		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	Block Edge Test (Band 4 (1.4M))		

Band 4 (1.4M) QPSK (1,0) Lower Channel 19957 (1710.7MHz)



Band 4 (1.4M) QPSK (1,5) Upper Channel 20393 (1754.3MHz)



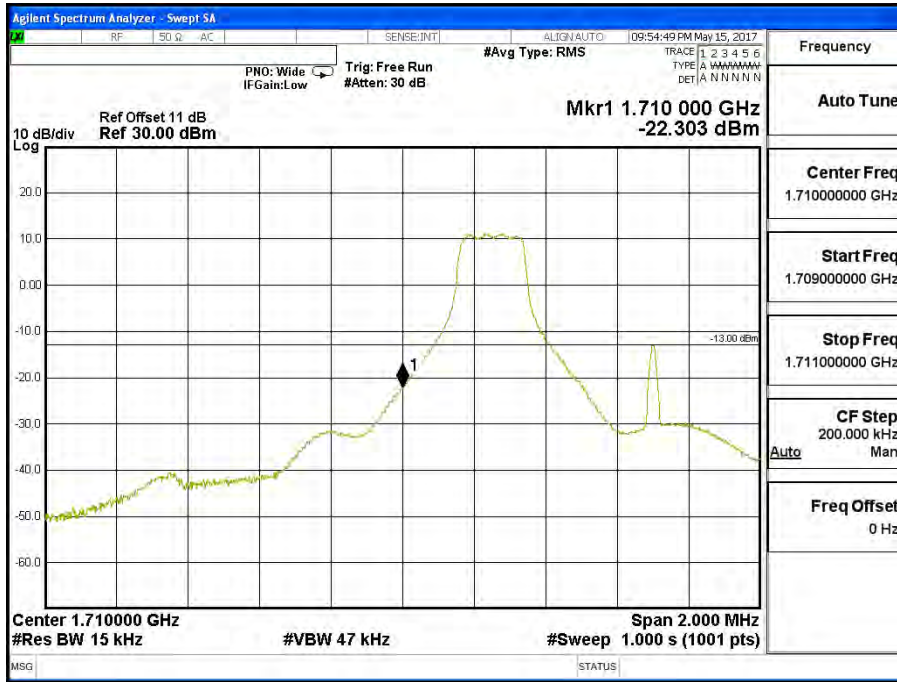
Band 4 (1.4M) QPSK (6,0) Lower Channel 19957 (1710.7MHz)



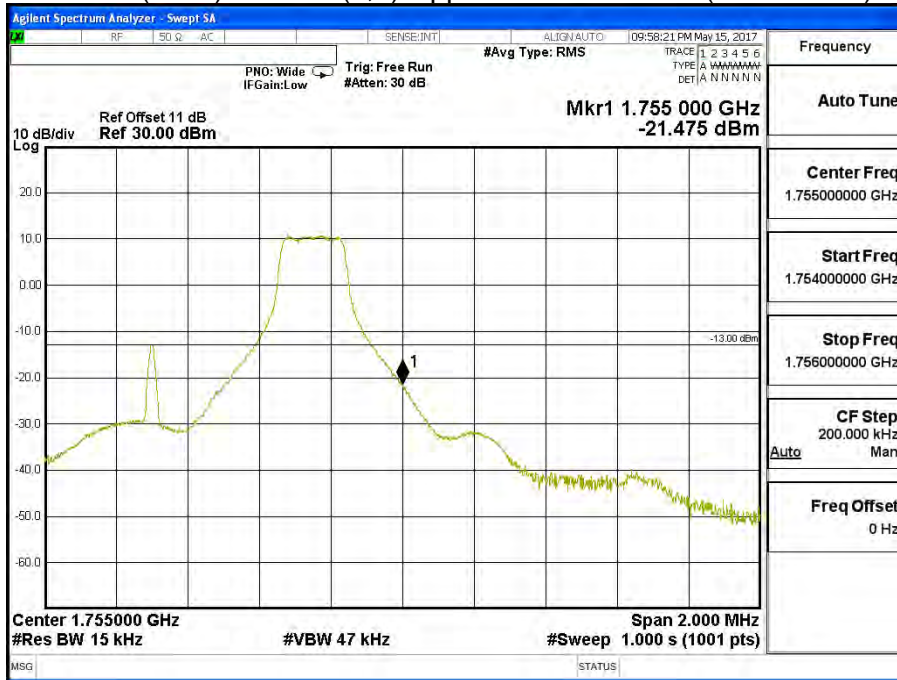
Band 4 (1.4M) QPSK (6,0) Upper Channel 20393 (1754.3MHz)



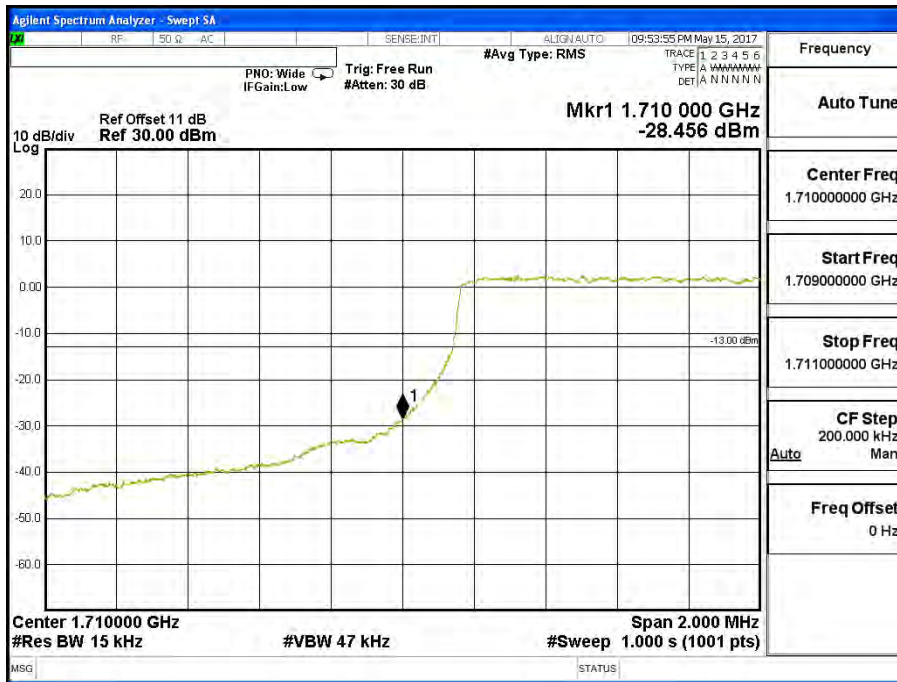
Band 4 (1.4M) 16QAM (1,0) Lower Channel 19957 (1710.7MHz)



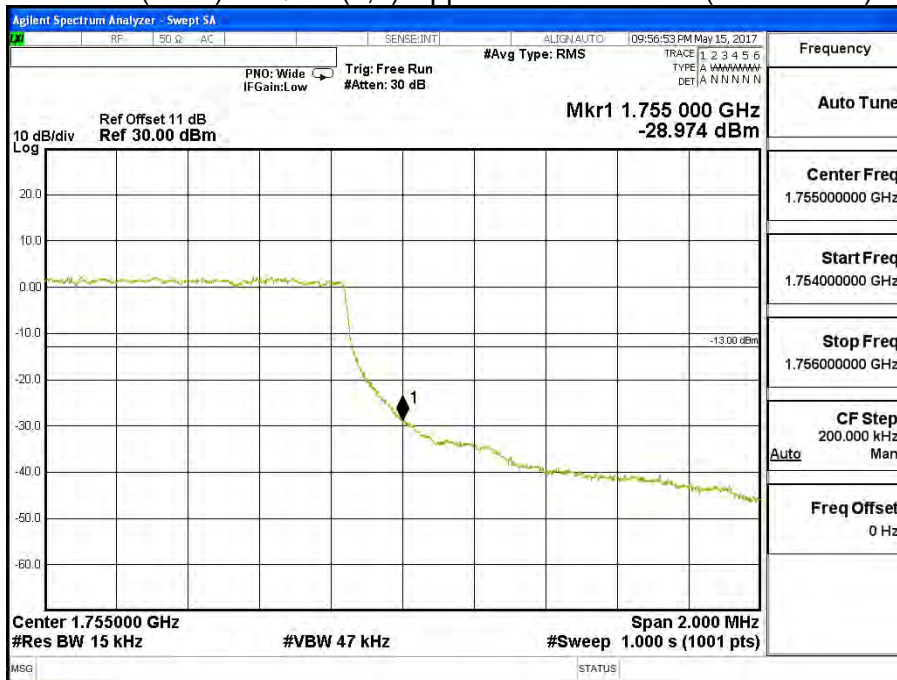
Band 4 (1.4M) 16QAM (1,5) Upper Channel 20393 (1754.3MHz)



Band 4 (1.4M) 16QAM (6,0) Lower Channel 19957 (1710.7MHz)

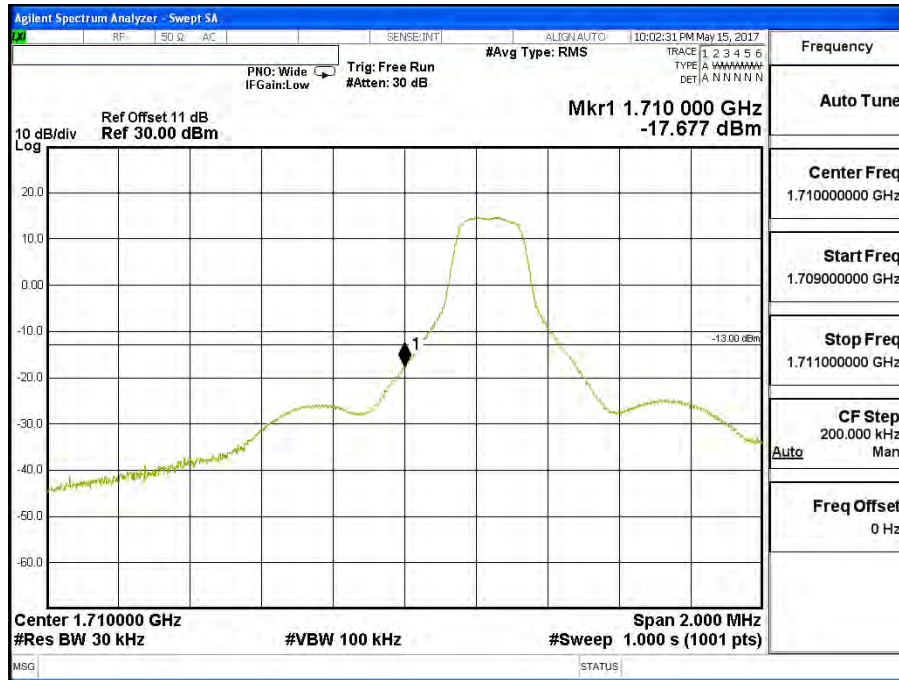


Band 4 (1.4M) 16QAM (6,0) Upper Channel 20393 (1754.3MHz)

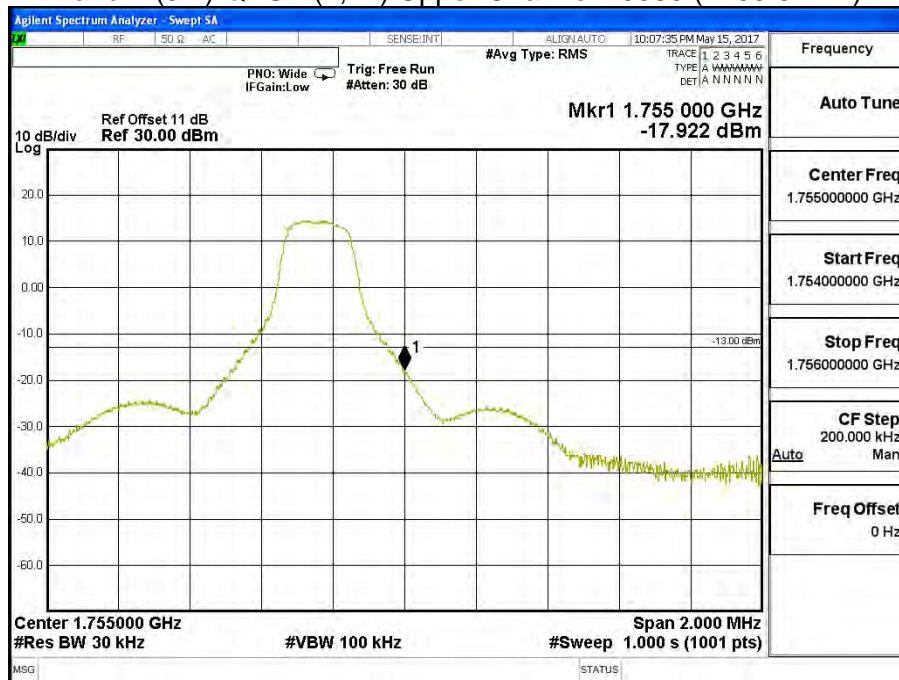


Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission At Antenna Terminals (+/-1MHz)		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	Block Edge Test (Band 4 (3M))		

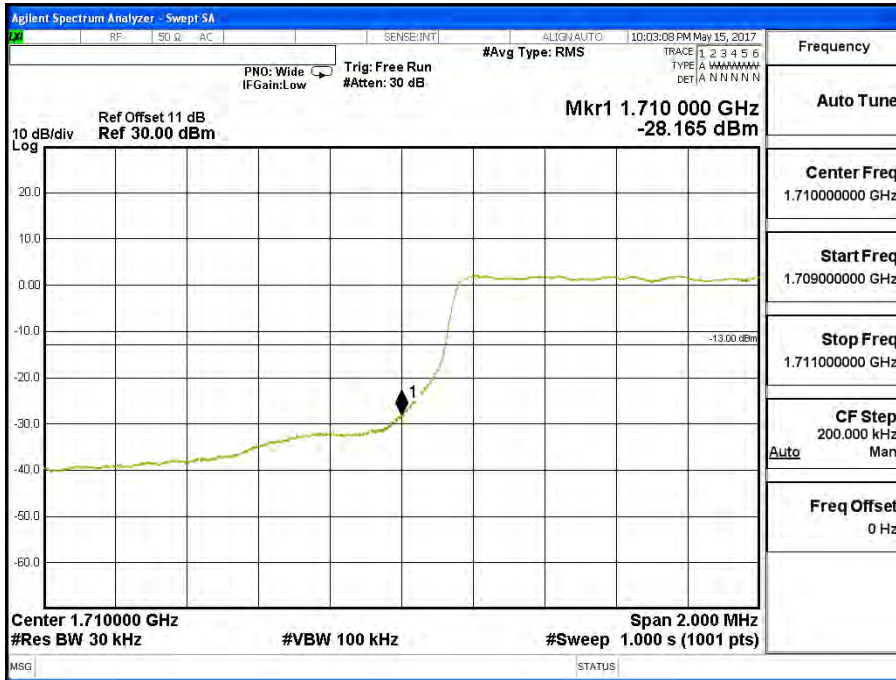
Band 4 (3M) QPSK (1,0) Lower Channel 19965 (1711.5MHz)



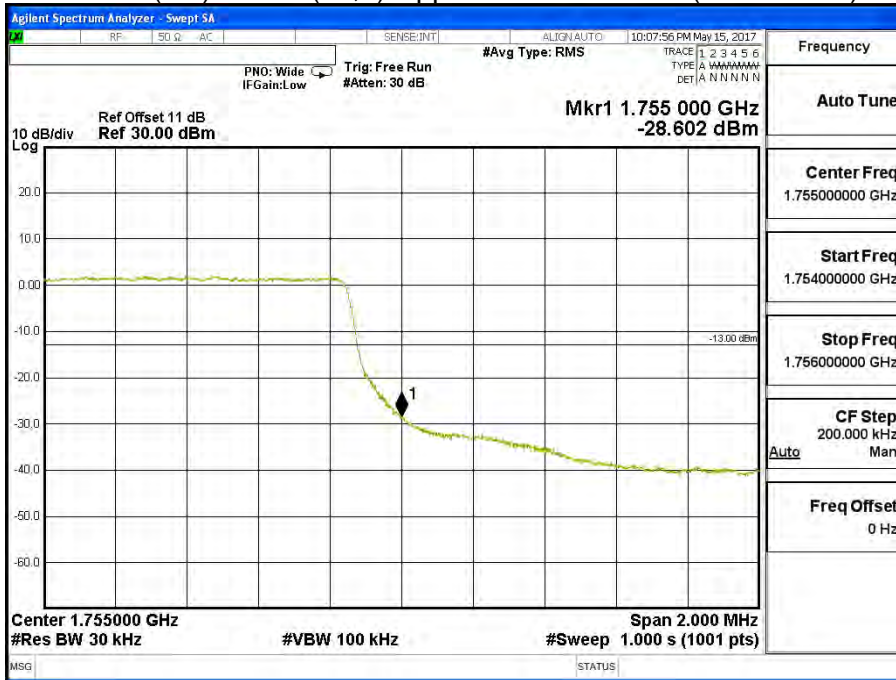
Band 4 (3M) QPSK (1,14) Upper Channel 20385 (1753.5MHz)



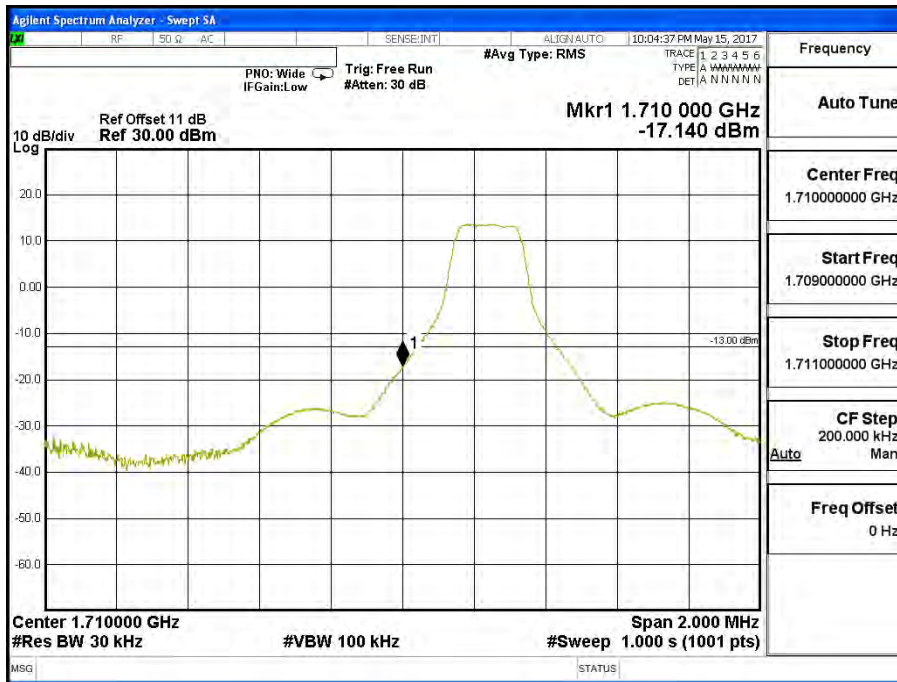
Band 4 (3M) QPSK (15,0) Lower Channel 19965 (1711.5MHz)



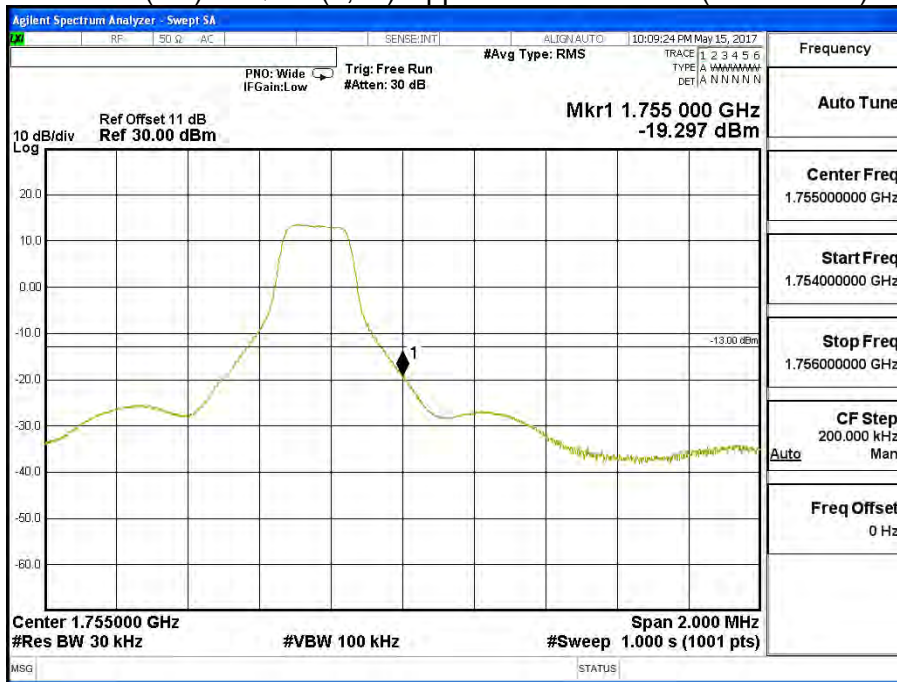
Band 4 (3M) QPSK (15,0) Upper Channel 20385 (1753.5MHz)



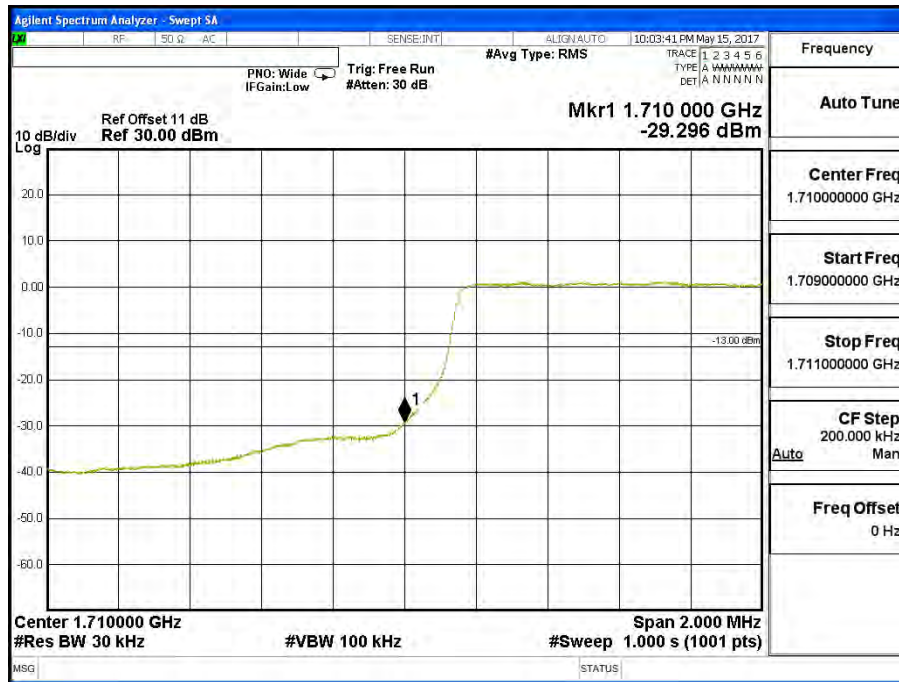
Band 4 (3M) 16QAM (1,0) Lower Channel 19965 (1711.5MHz)



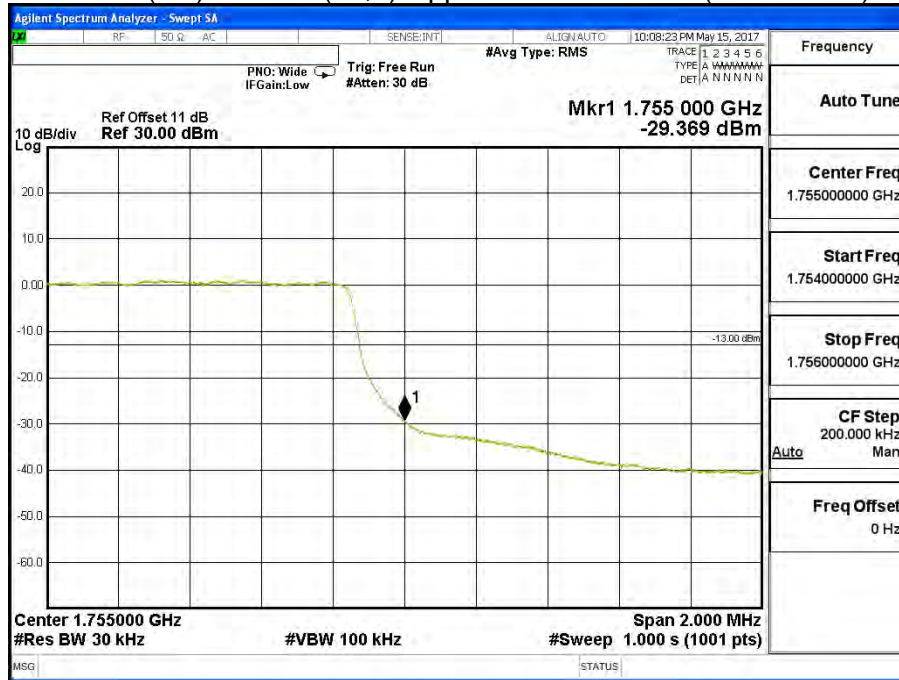
Band 4 (3M) 16QAM (1,14) Upper Channel 20385 (1753.5MHz)



Band 4 (3M) 16QAM (15,0) Lower Channel 19965 (1711.5MHz)

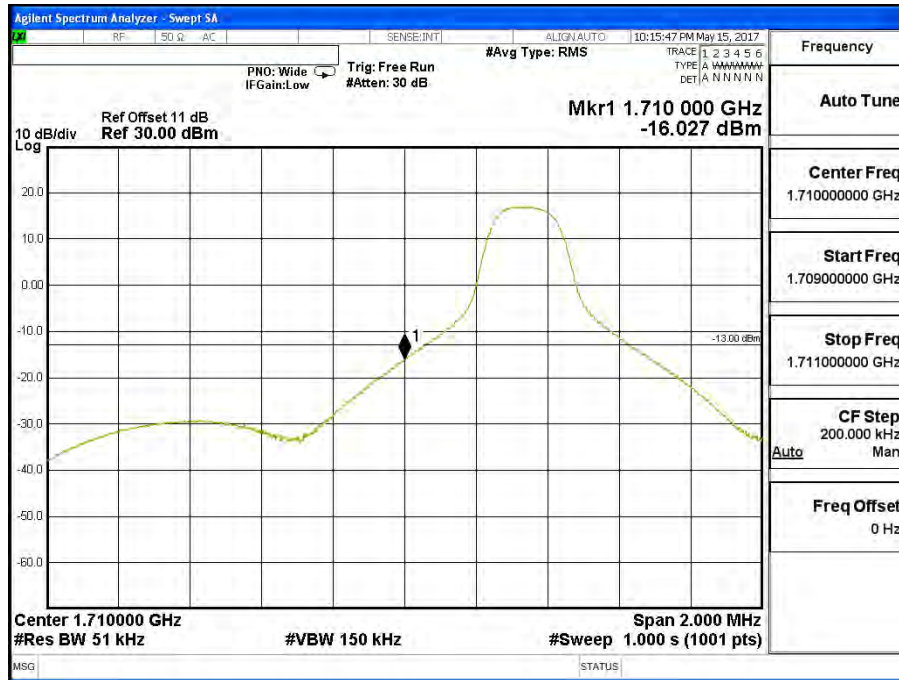


Band 4 (3M) 16QAM (15,0) Upper Channel 20385 (1753.5MHz)



Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission At Antenna Terminals (+/-1MHz)		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	Block Edge Test (Band 4 (5M))		

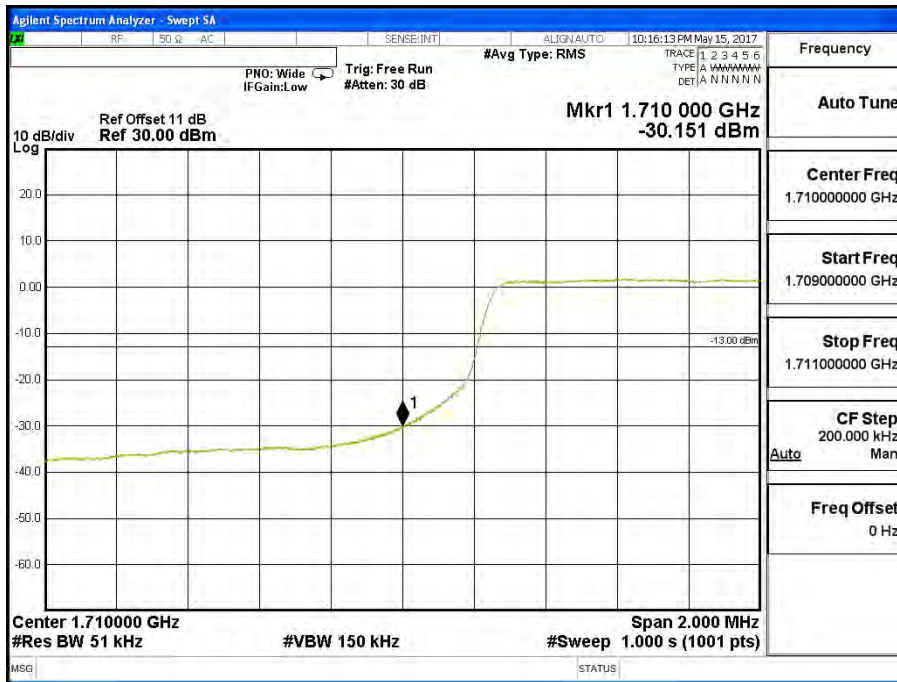
Band 4 (5M) QPSK(1,0) Lower Channel 19975 (1712.5MHz)



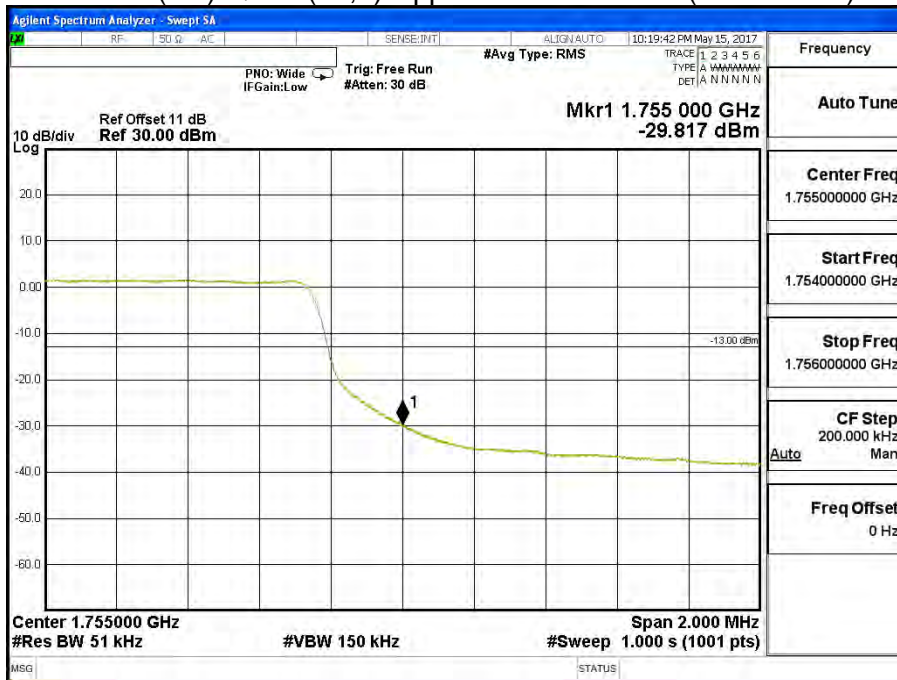
Band 4 (5M) QPSK(1,24) Upper Channel 20375 (1752.5MHz)



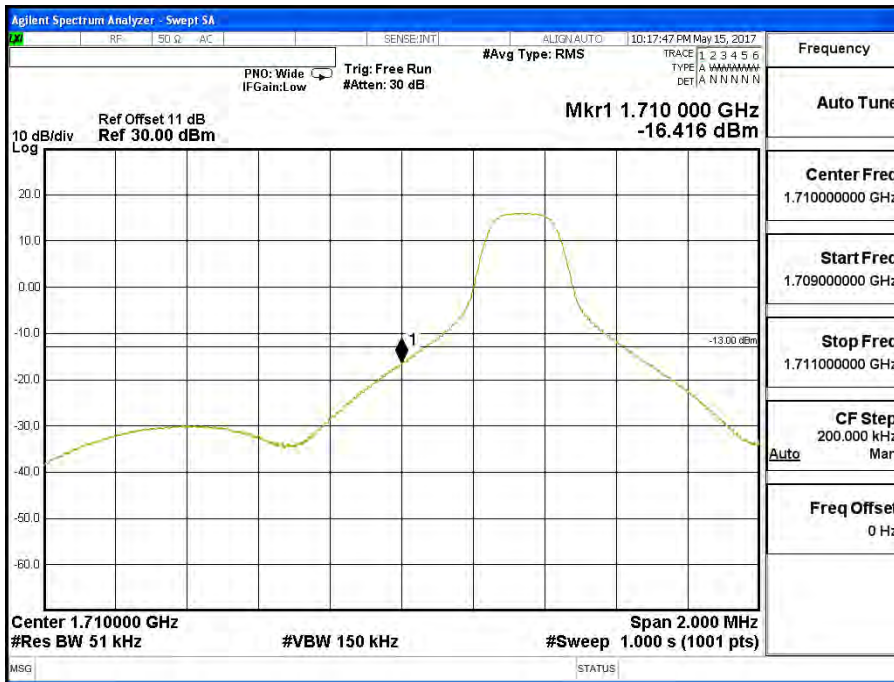
Band 4 (5M) QPSK(25,0) Lower Channel 19975 (1712.5MHz)



Band 4 (5M) QPSK(25,0) Upper Channel 20375 (1752.5MHz)



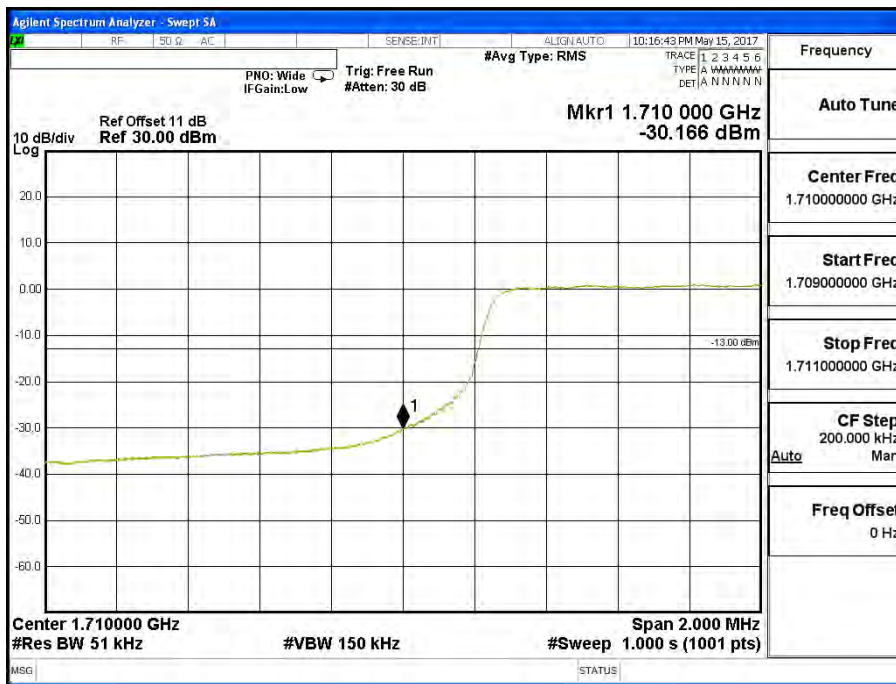
Band 4 (5M) 16QAM(1,0) Lower Channel 19975 (1712.5MHz)



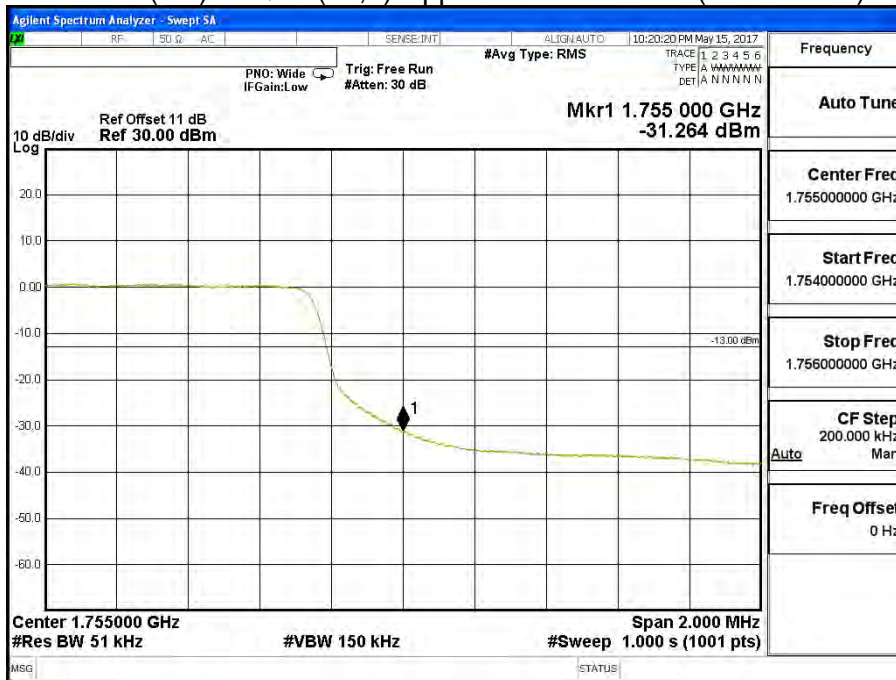
Band 4 (5M) 16QAM(1,24) Upper Channel 20375 (1752.5MHz)



Band 4 (5M) 16QAM(25,0) Lower Channel 19975 (1712.5MHz)

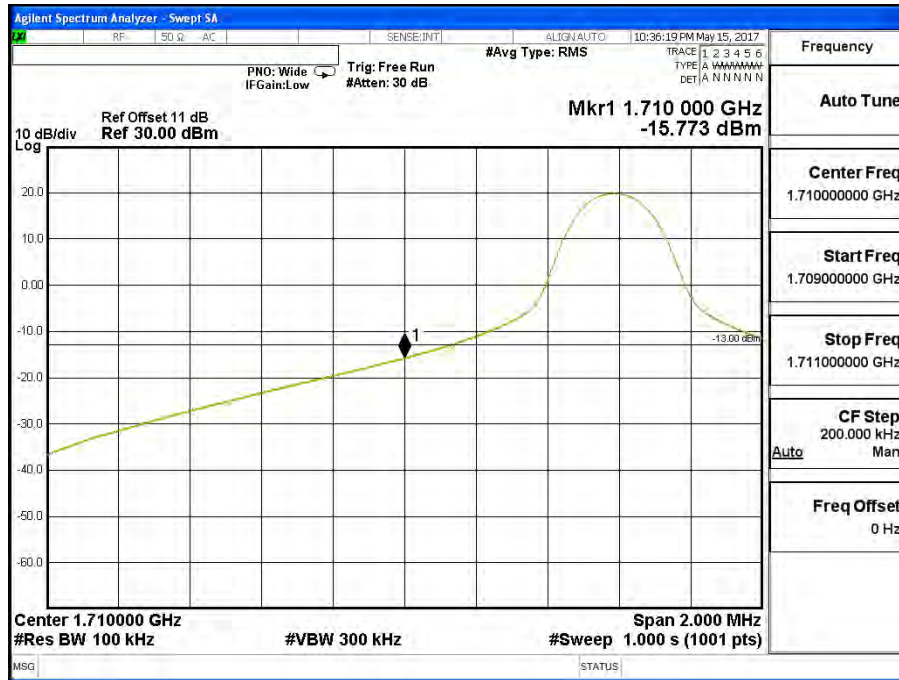


Band 4 (5M) 16QAM(25,0) Upper Channel 20375 (1752.5MHz)



Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission At Antenna Terminals (+/-1MHz)		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	Block Edge Test (Band 4 (10M))		

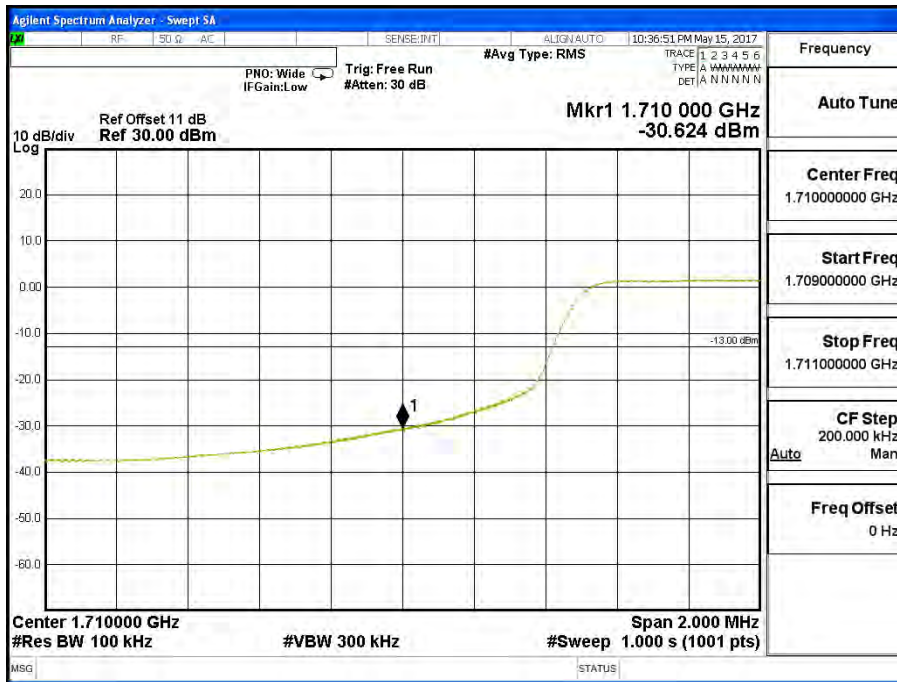
Band 4 (10M) QPSK(1,0) Lower Channel 20000 (1715MHz)



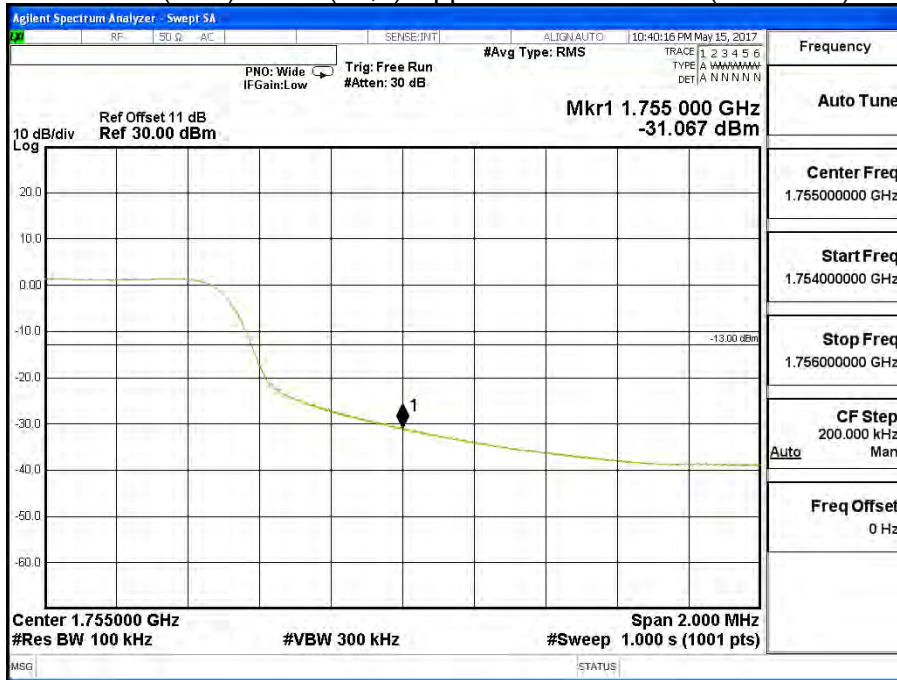
Band 4 (10M) QPSK(1,49) Upper Channel 20350 (1750MHz)



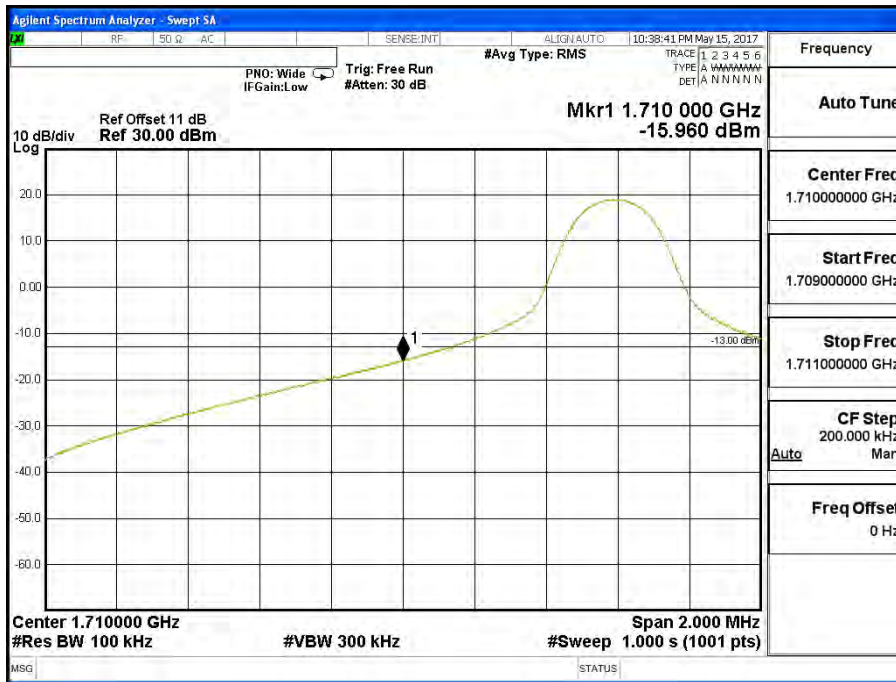
Band 4 (10M) QPSK(50,0) Lower Channel 20000 (1715MHz)



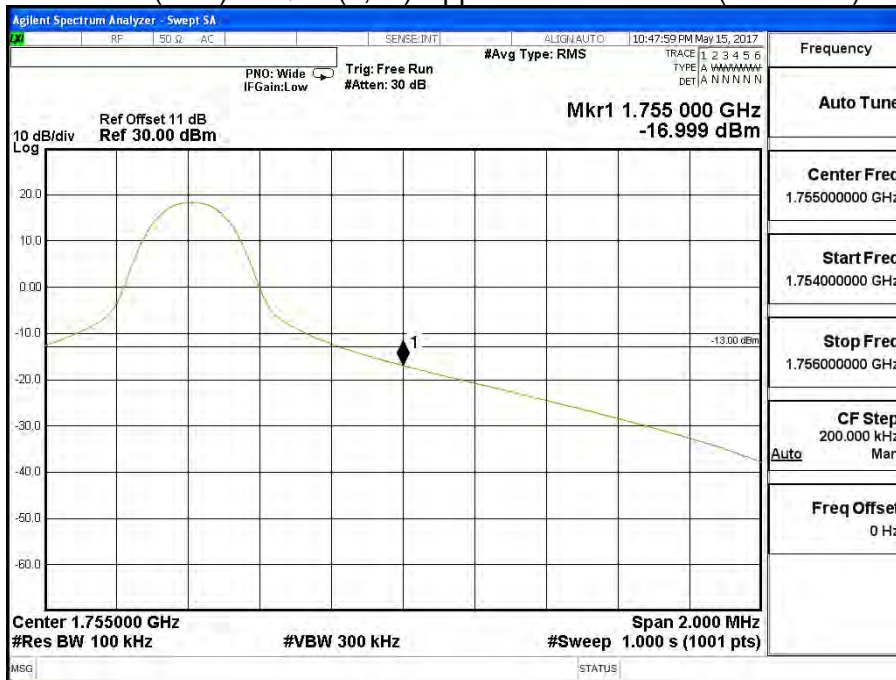
Band 4 (10M) QPSK(50,0) Upper Channel 20350 (1750MHz)



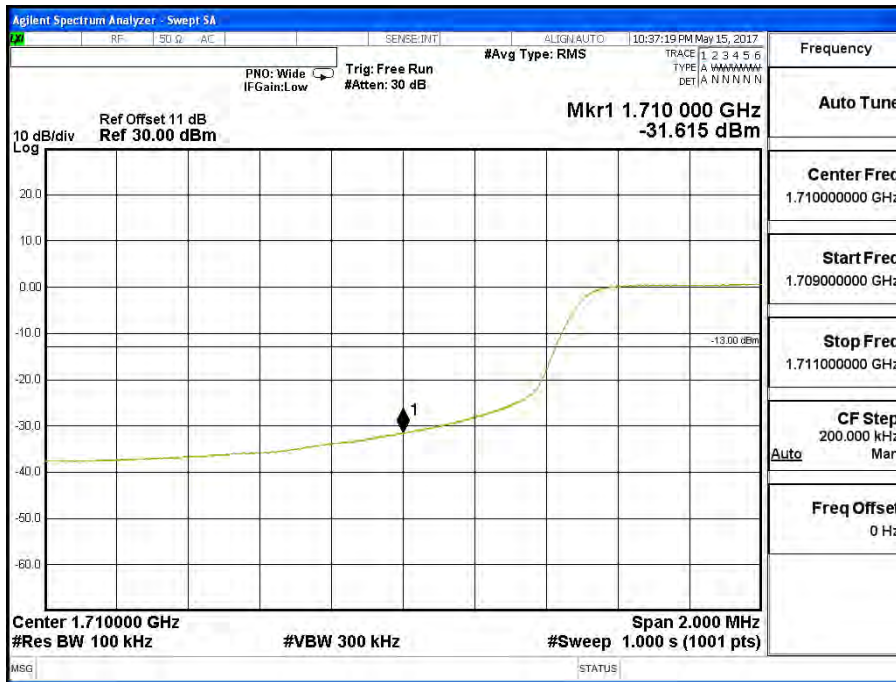
Band 4 (10M) 16QAM(1,0) Lower Channel 20000 (1715MHz)



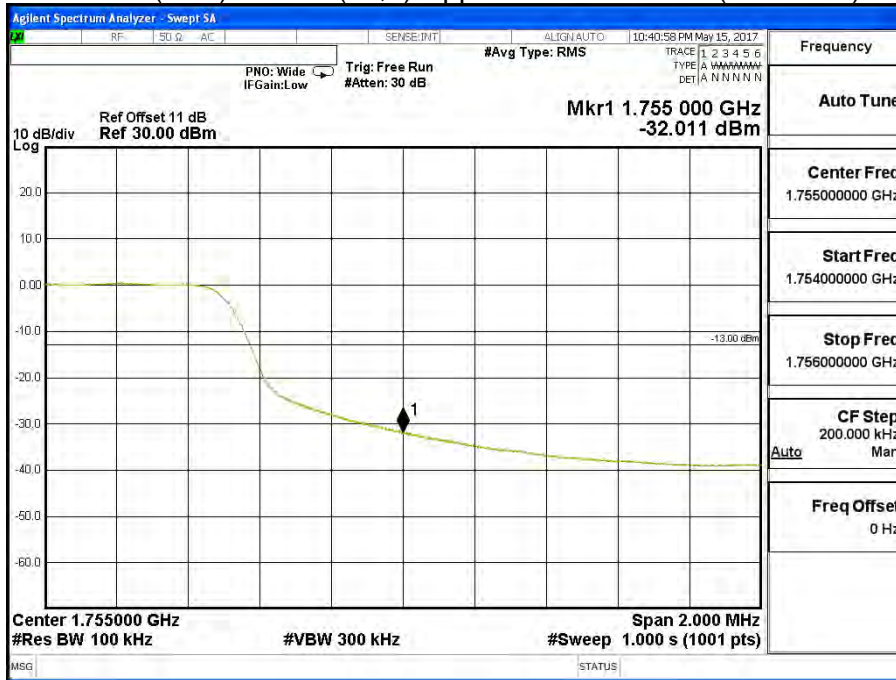
Band 4 (10M) 16QAM(1,49) Upper Channel 20350 (1750MHz)



Band 4 (10M) 16QAM(50,0) Lower Channel 20000 (1715MHz)

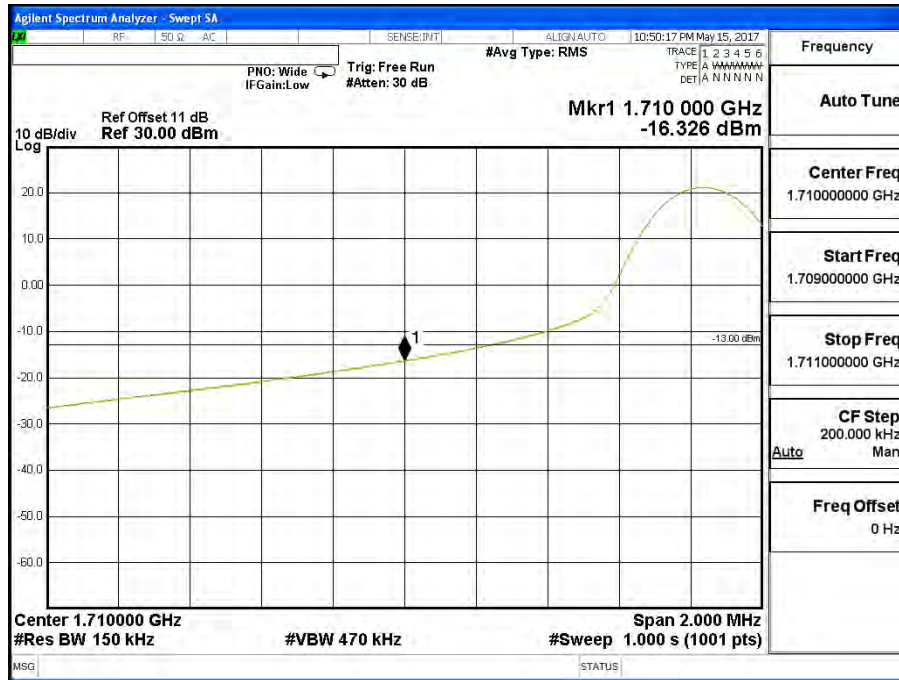


Band 4 (10M) 16QAM(50,0) Upper Channel 20350 (1750MHz)



Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission At Antenna Terminals (+/-1MHz)		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	Block Edge Test (Band 4 (15M))		

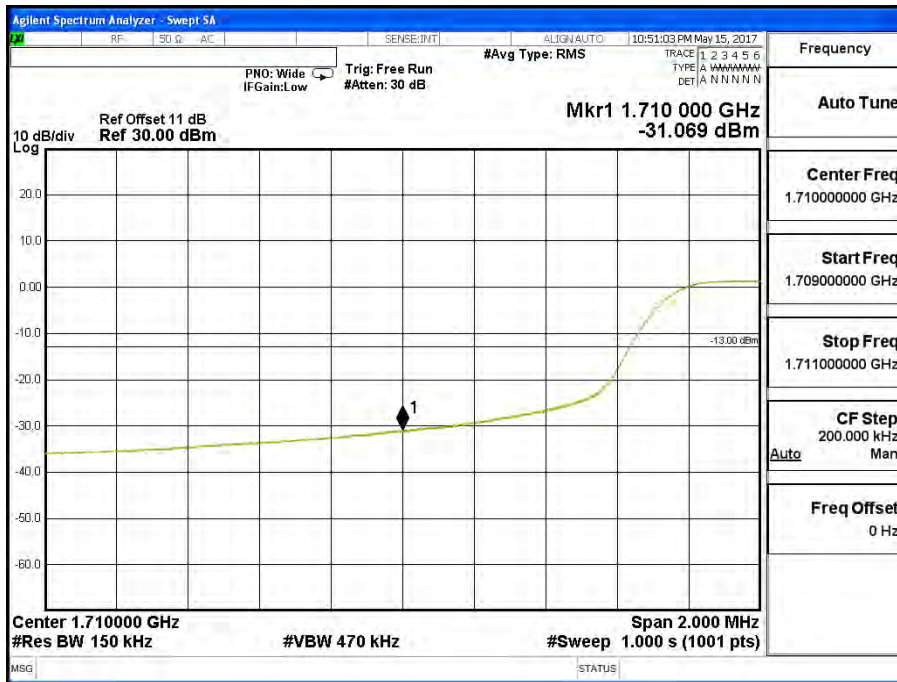
Band 4 (15M)QPSK(1,0) Lower Channel 20025 (1717.5MHz)



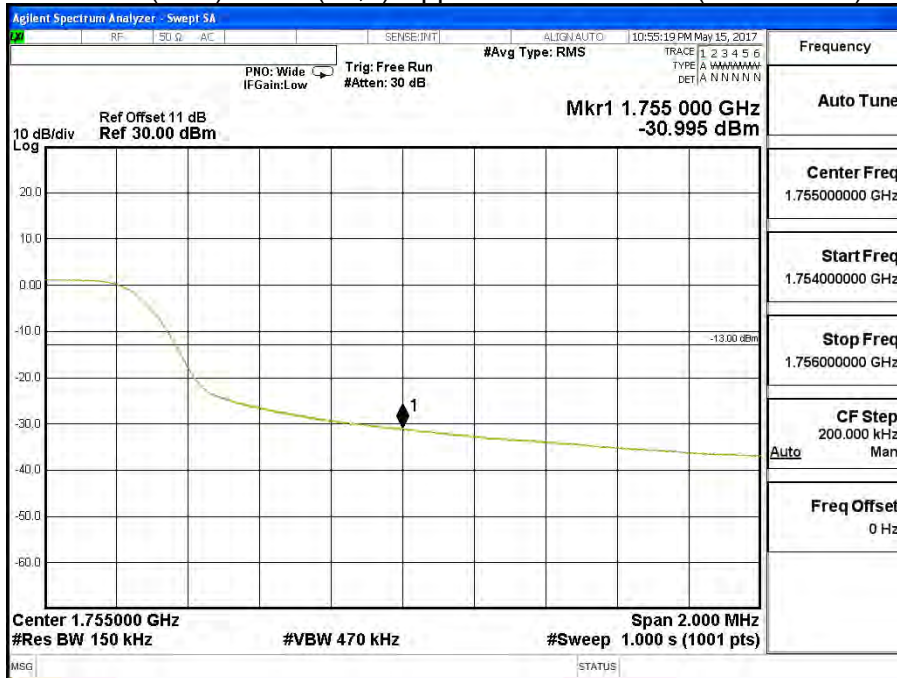
Band 4 (15M) QPSK(1,74) Upper Channel 20325 (1747.5MHz)



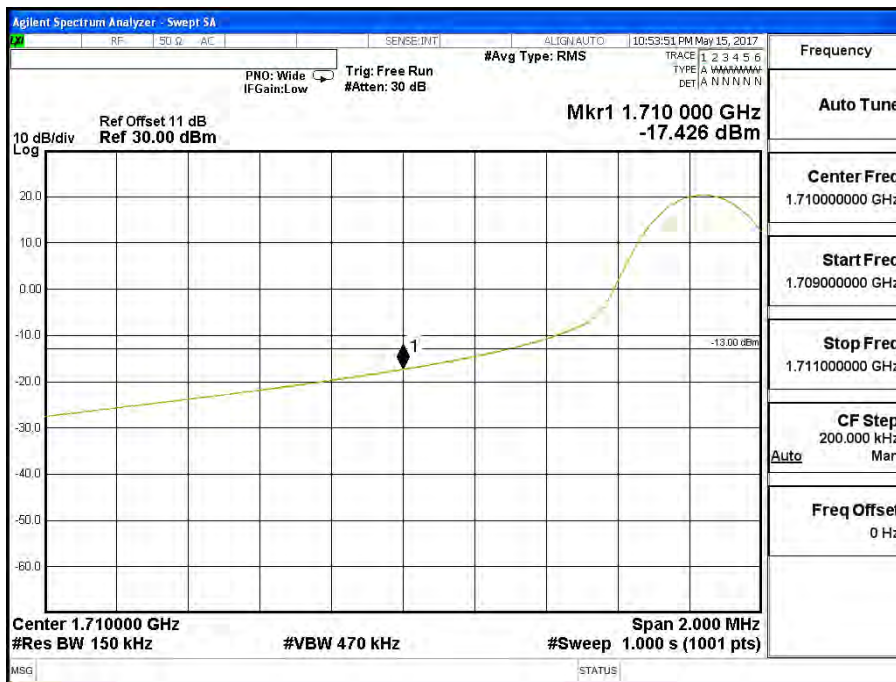
Band 4 (15M) QPSK(75,0) Lower Channel 20025 (1717.5MHz)



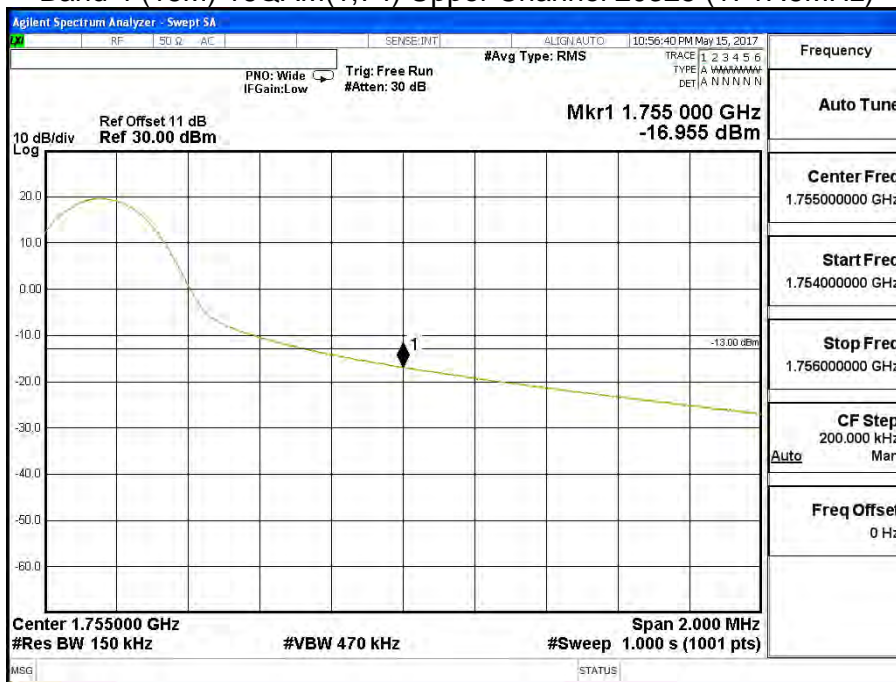
Band 4 (15M) QPSK(75,0) Upper Channel 20325 (1747.5MHz)



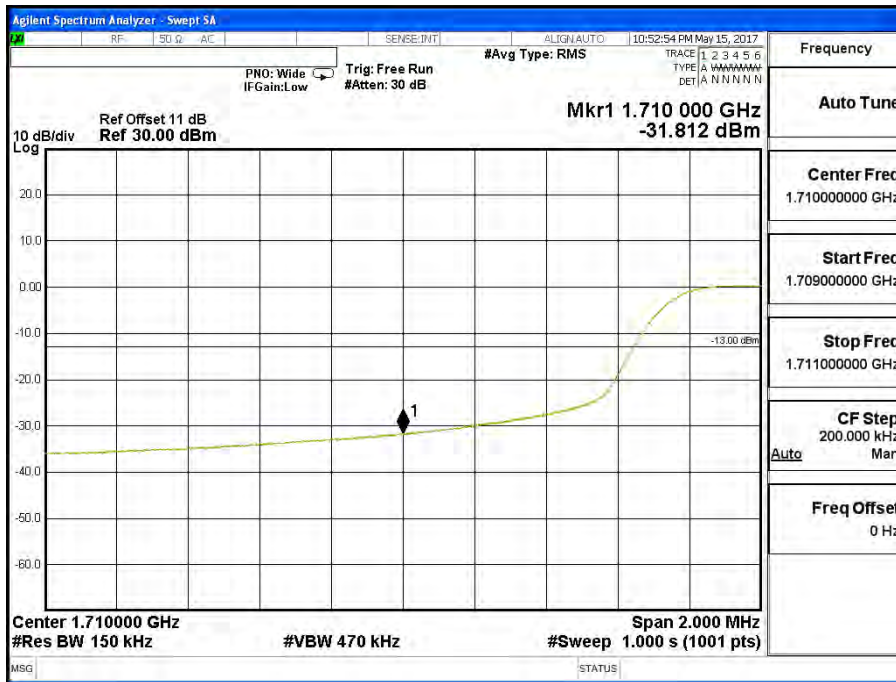
Band 4 (15M) 16QAM(1,0) Lower Channel 20025 (1717.5MHz)



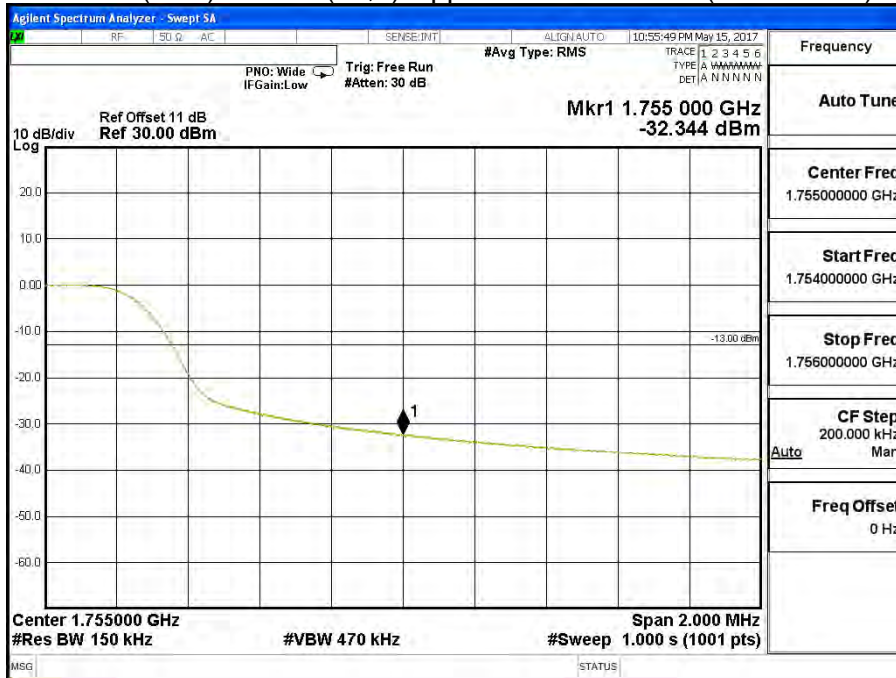
Band 4 (15M) 16QAM(1,74) Upper Channel 20325 (1747.5MHz)



Band 4 (15M) 16QAM(75,0) Lower Channel 20025 (1717.5MHz)

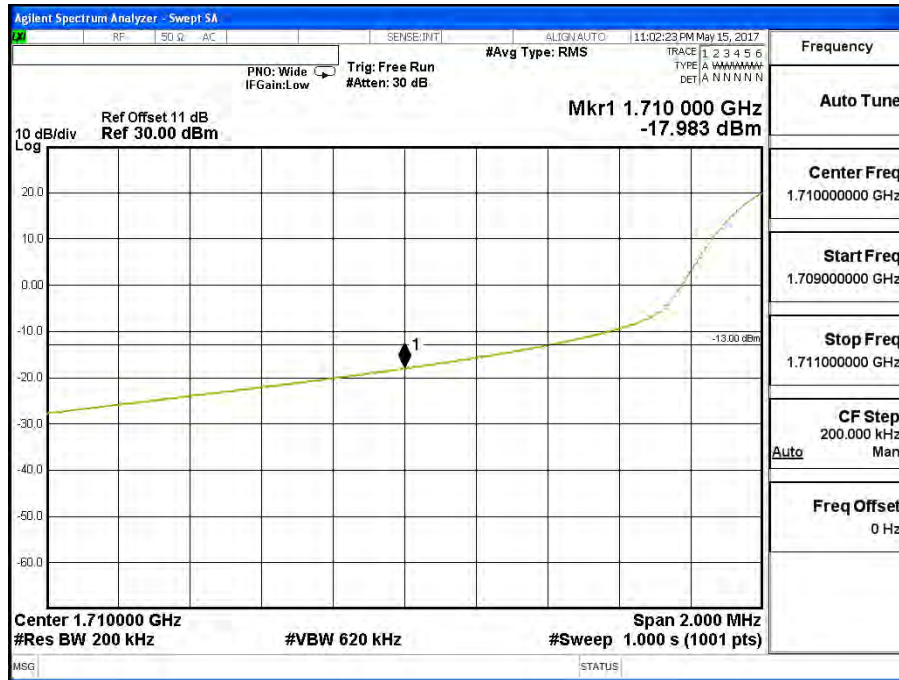


Band 4 (15M) 16QAM(75,0) Upper Channel 20325 (1747.5MHz)

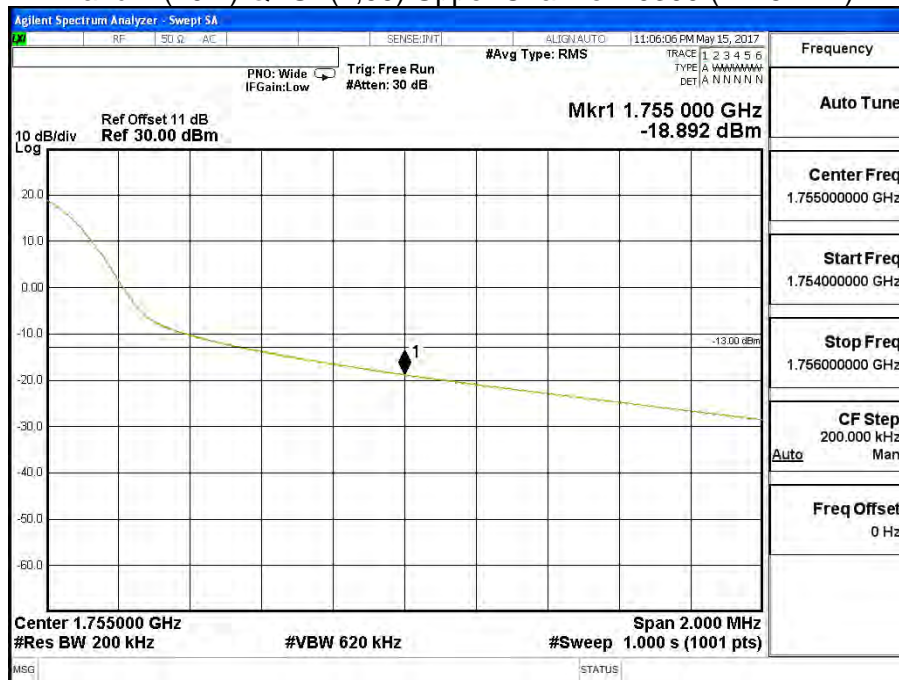


Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission At Antenna Terminals (+/-1MHz)		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	Block Edge Test (Band 4 (20M))		

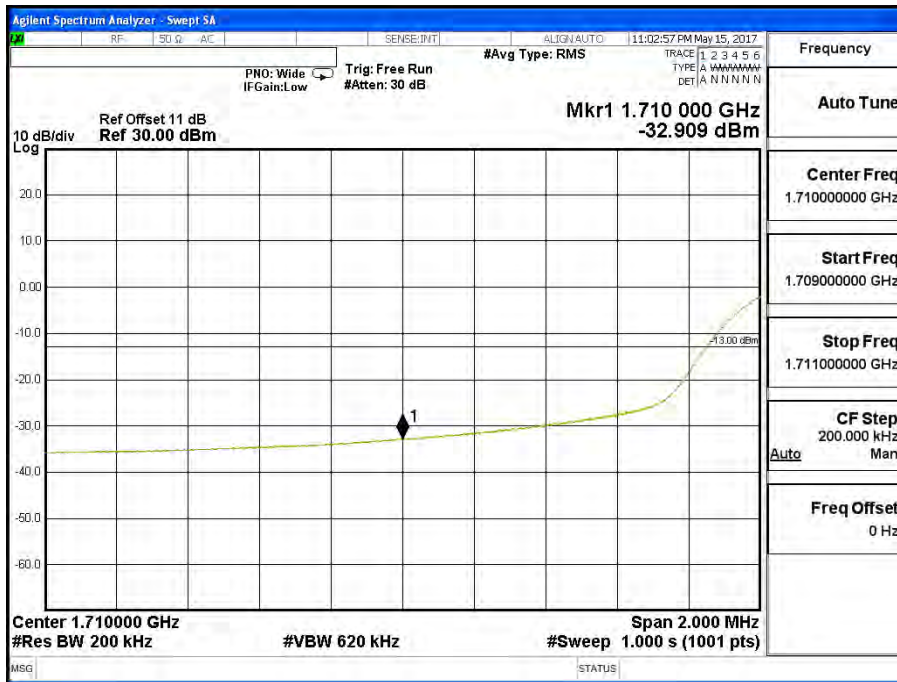
Band 4 (20M) QPSK(1,0) Lower Channel 20050 (1720MHz)



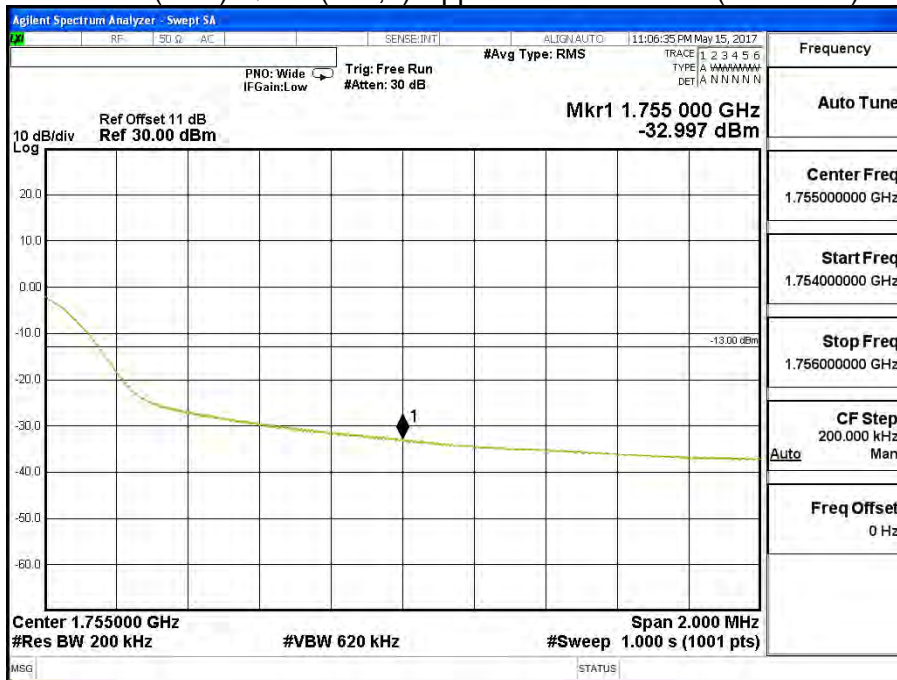
Band 4 (20M) QPSK(1,99) Upper Channel 20300 (1745MHz)



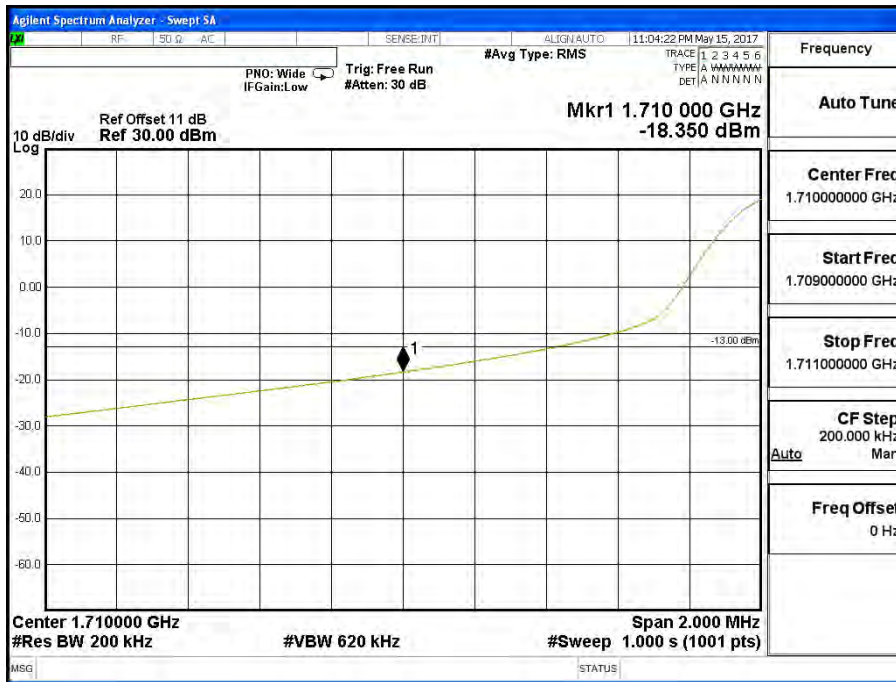
Band 4 (20M) QPSK(100,0) Lower Channel 20050 (1720MHz)



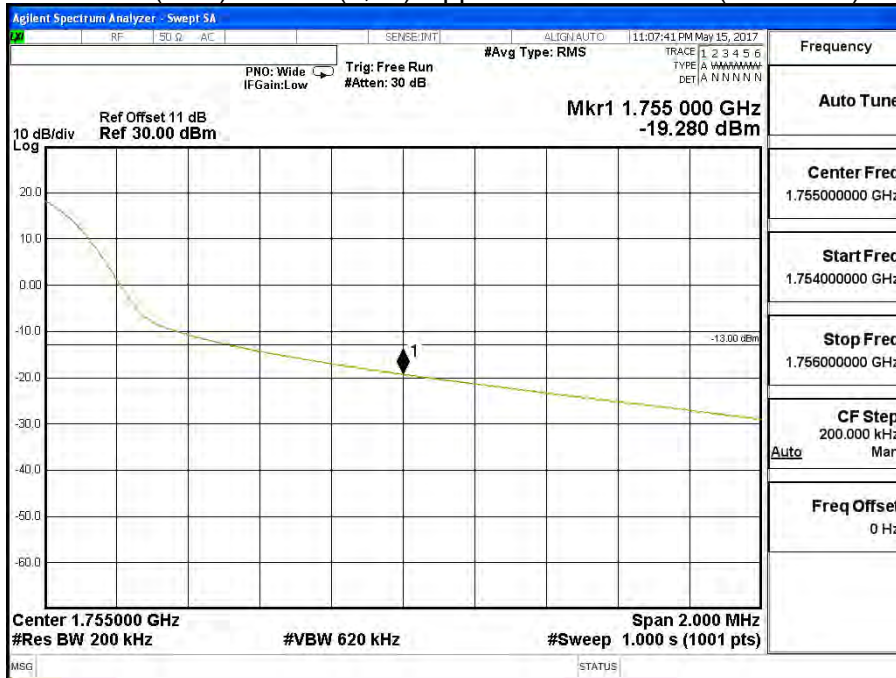
Band 4 (20M) QPSK(100,0) Upper Channel 20300 (1745MHz)



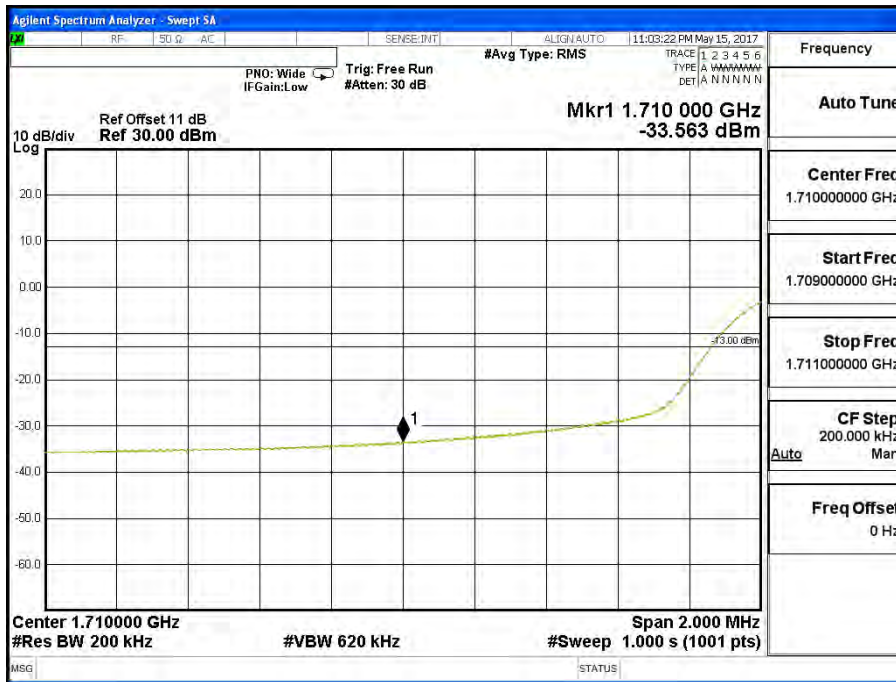
Band 4 (20M) 16QAM(1,0) Lower Channel 20050 (1720MHz)



Band 4 (20M) 16QAM(1,99) Upper Channel 20300 (1745MHz)



Band 4 (20M) 16QAM(100,0) Lower Channel 20050 (1720MHz)

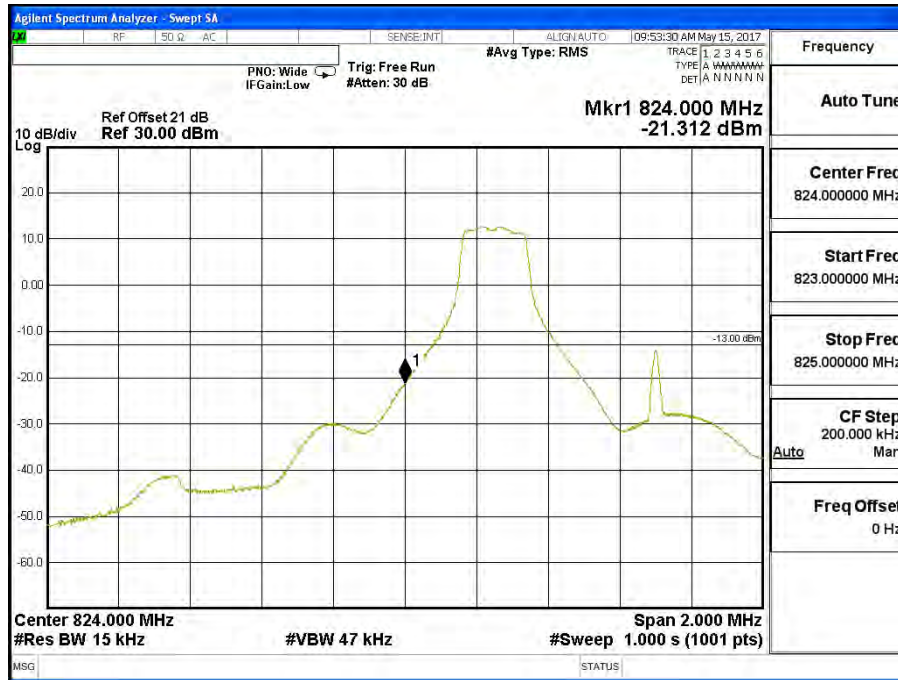


Band 4 (20M) 16QAM(100,0) Upper Channel 20300 (1745MHz)

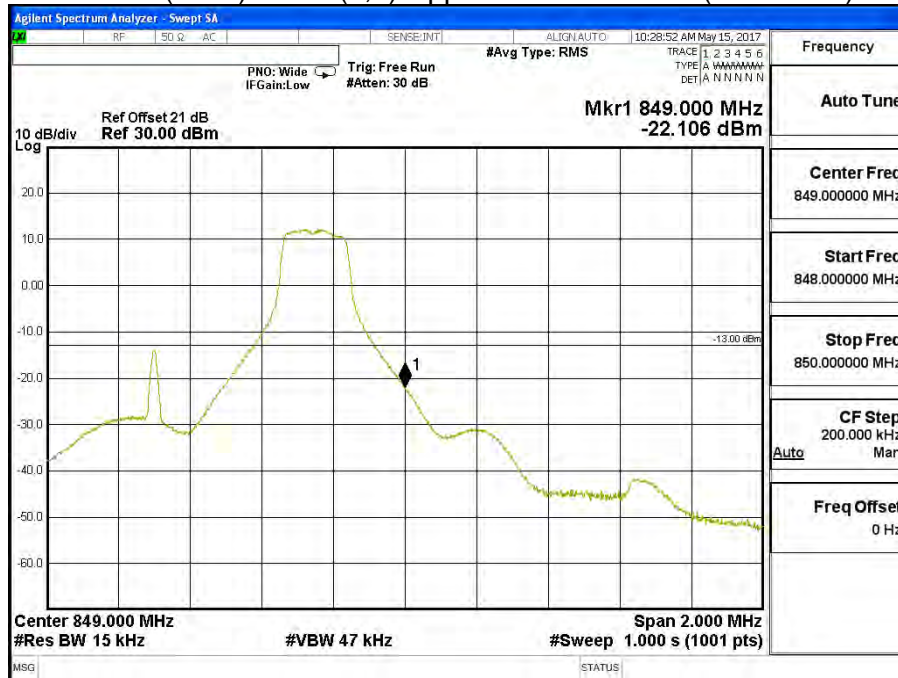


Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission At Antenna Terminals (+/-1MHz)		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	Block Edge Test (Band 5 (1.4M))		

Band 5 (1.4M) QPSK(1,0) Lower Channel 20407 (824.7MHz)



Band 5 (1.4M) QPSK(1,5) Upper Channel 20643 (848.3MHz)



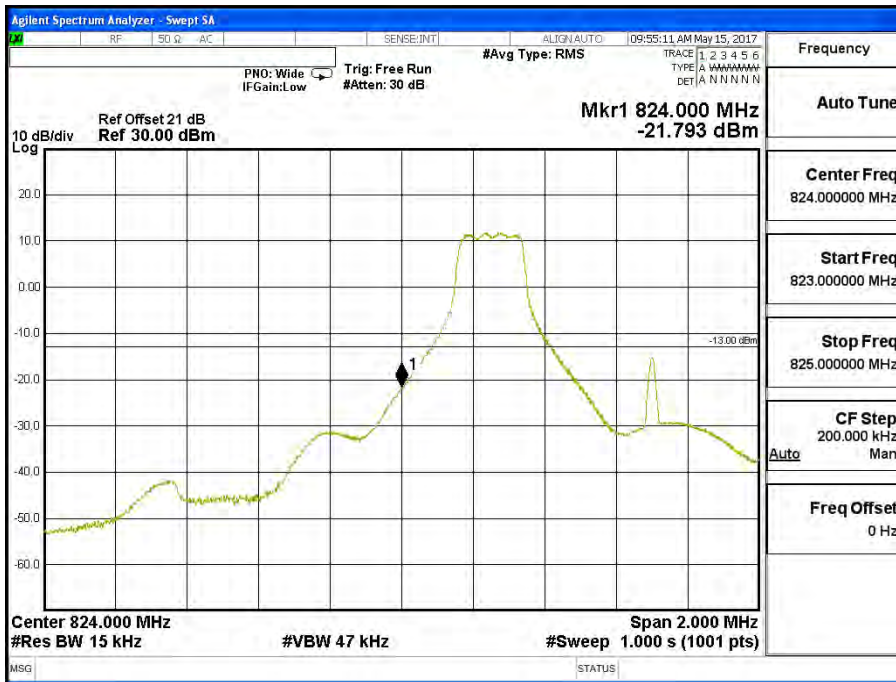
Band 5 (1.4M) QPSK(6,0) Lower Channel 20407 (824.7MHz)



Band 5 (1.4M) QPSK(6,0) Upper Channel 20643 (848.3MHz)



Band 5 (1.4M) 16QAM(1,0) Lower Channel 20407 (824.7MHz)



Band 5 (1.4M) 16QAM(1,5) Upper Channel 20643 (848.3MHz)



Band 5 (1.4M) 16QAM(6,0) Lower Channel 20407 (824.7MHz)

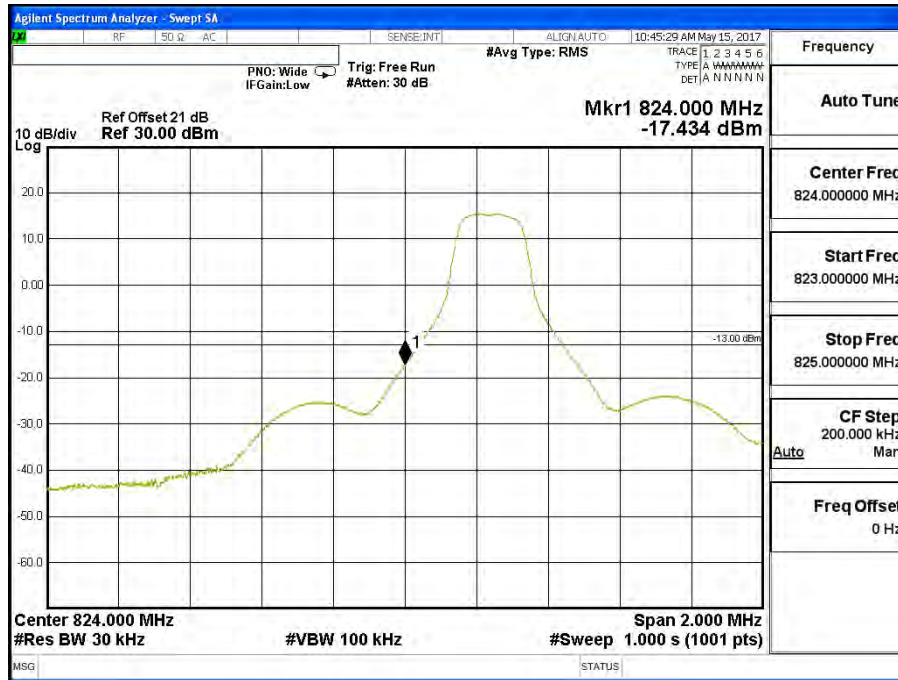


Band 5 (1.4M) 16QAM(6,0) Upper Channel 20643 (848.3MHz)

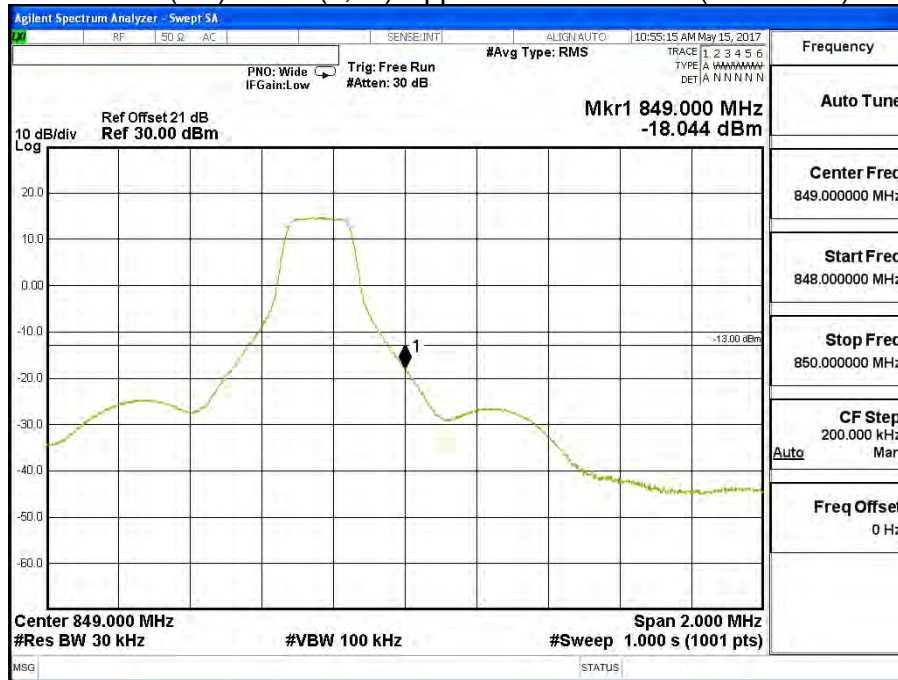


Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission At Antenna Terminals (+/-1MHz)		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	Block Edge Test (Band 5 (3M))		

Band 5 (3M) QPSK(1,0) Lower Channel 20415 (825.5MHz)



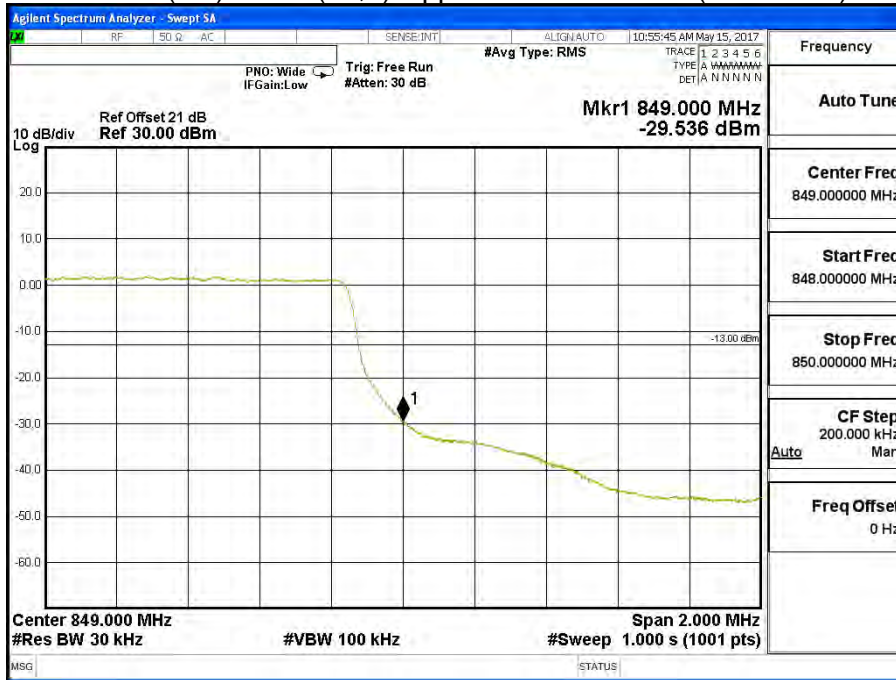
Band 5 (3M) QPSK(1,14) Upper Channel 20635 (847.5MHz)



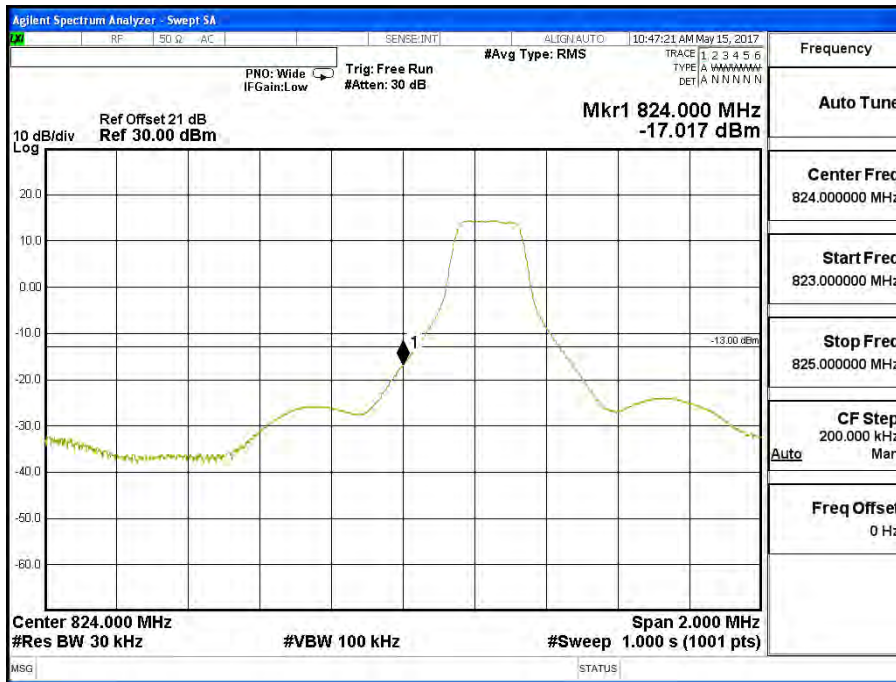
Band 5 (3M) QPSK(15,0) Lower Channel 20415 (825.5MHz)



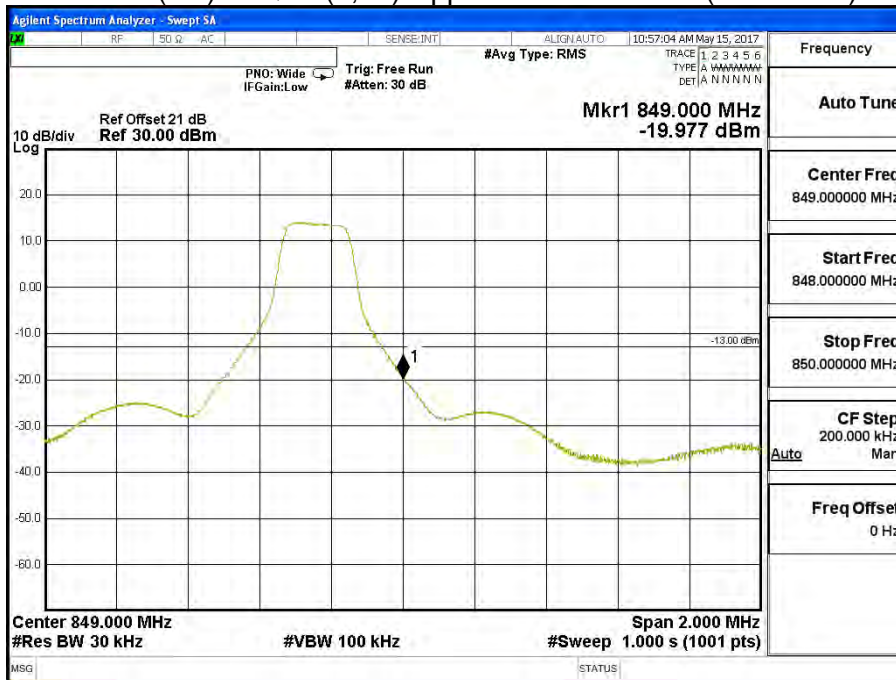
Band 5 (3M) QPSK(15,0) Upper Channel 20635 (847.5MHz)



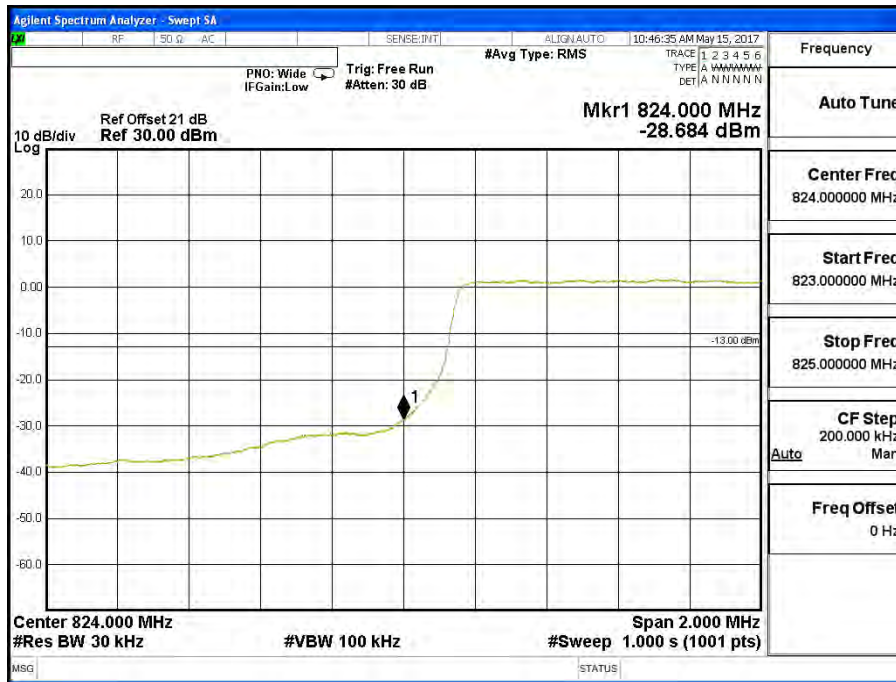
Band 5 (3M) 16QAM(1,0) Lower Channel 20415 (825.5MHz)



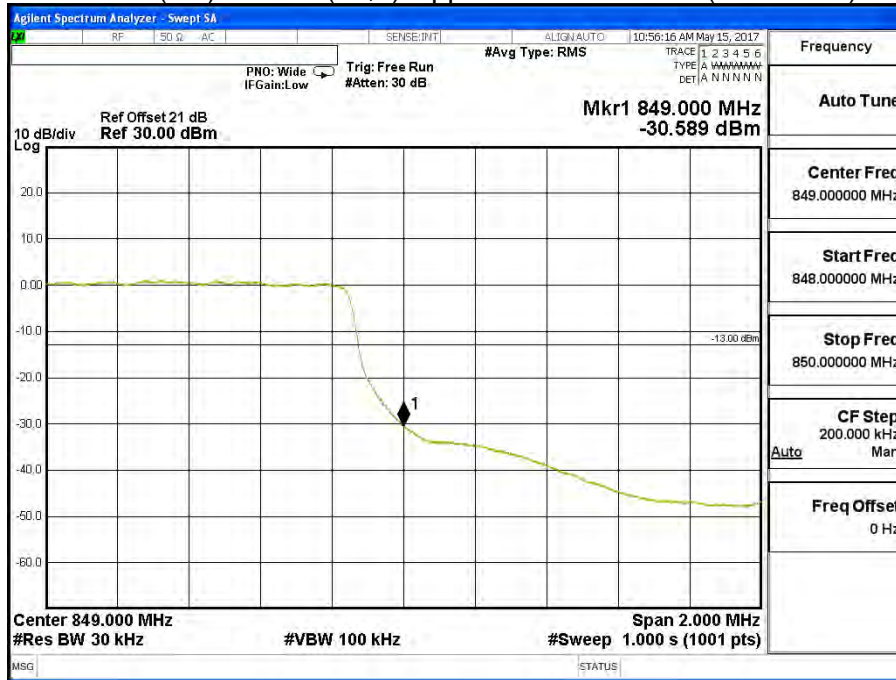
Band 5 (3M) 16QAM(1,14) Upper Channel 20635 (847.5MHz)



Band 5 (3M) 16QAM(15,0) Lower Channel 20415 (825.5MHz)

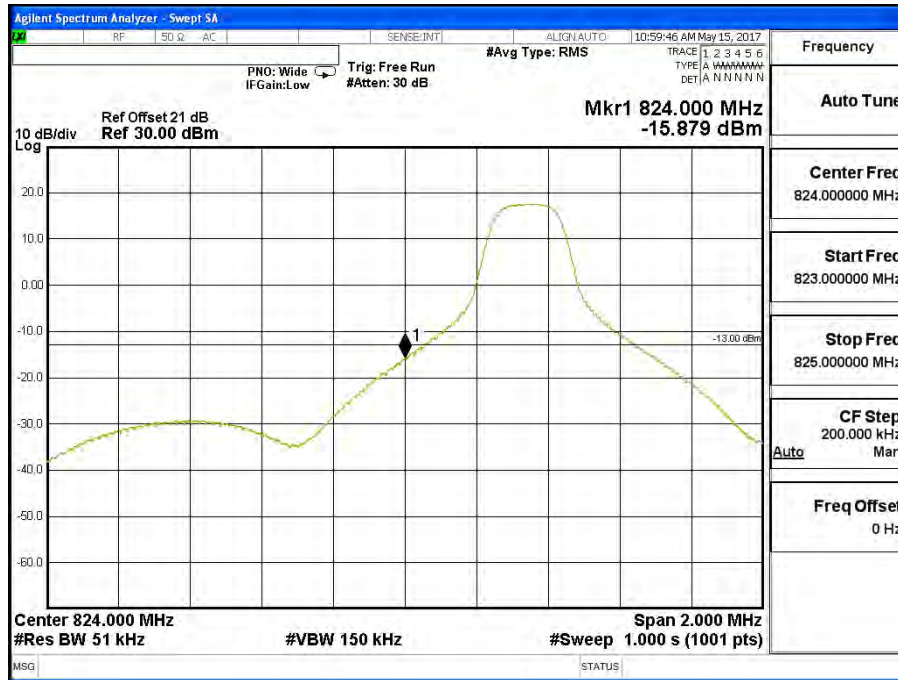


Band 5 (3M) 16QAM(15,0) Upper Channel 20635 (847.5MHz)



Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission At Antenna Terminals (+/-1MHz)		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	Block Edge Test (Band 5 (5M))		

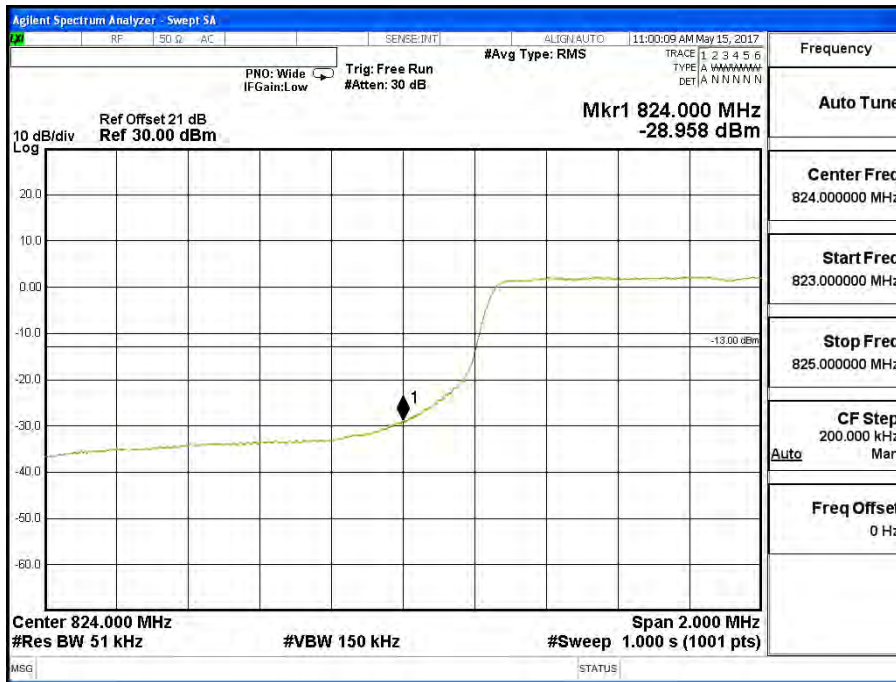
Band 5 (5M) QPSK(1,0) Lower Channel 20425 (826.5MHz)



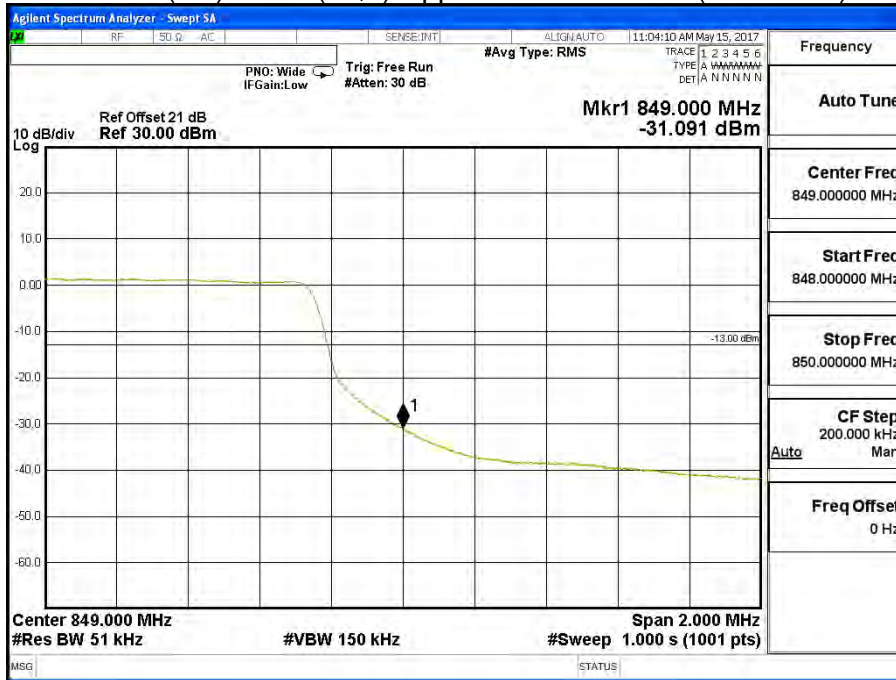
Band 5 (5M) QPSK(1,24) Upper Channel 20625 (846.5MHz)



Band 5 (5M) QPSK(25,0) Lower Channel 20425 (826.5MHz)



Band 5 (5M) QPSK(25,0) Upper Channel 20625 (846.5MHz)



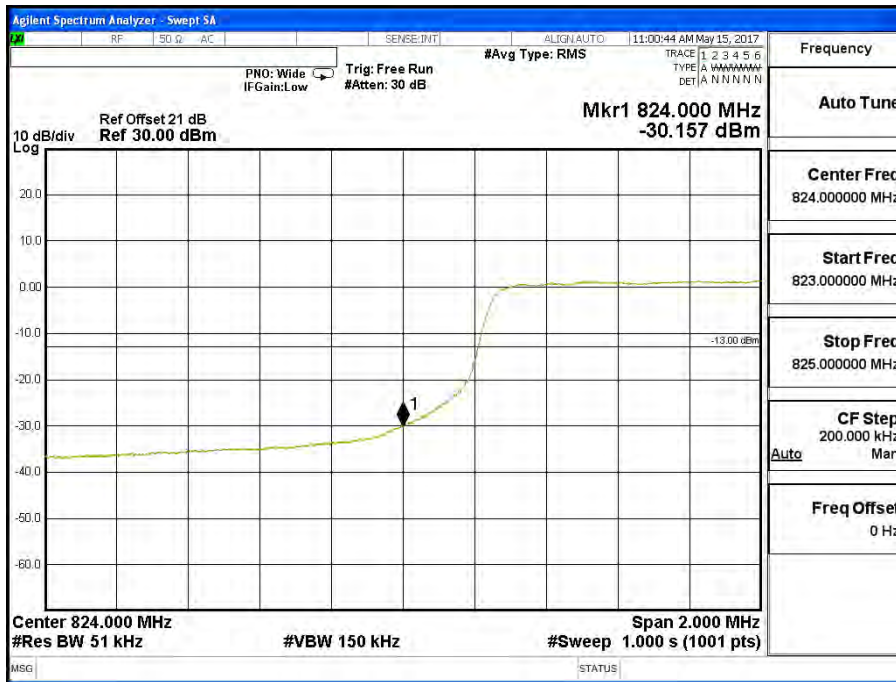
Band 5 (5M) 16QAM(1,0) Lower Channel 20425 (826.5MHz)



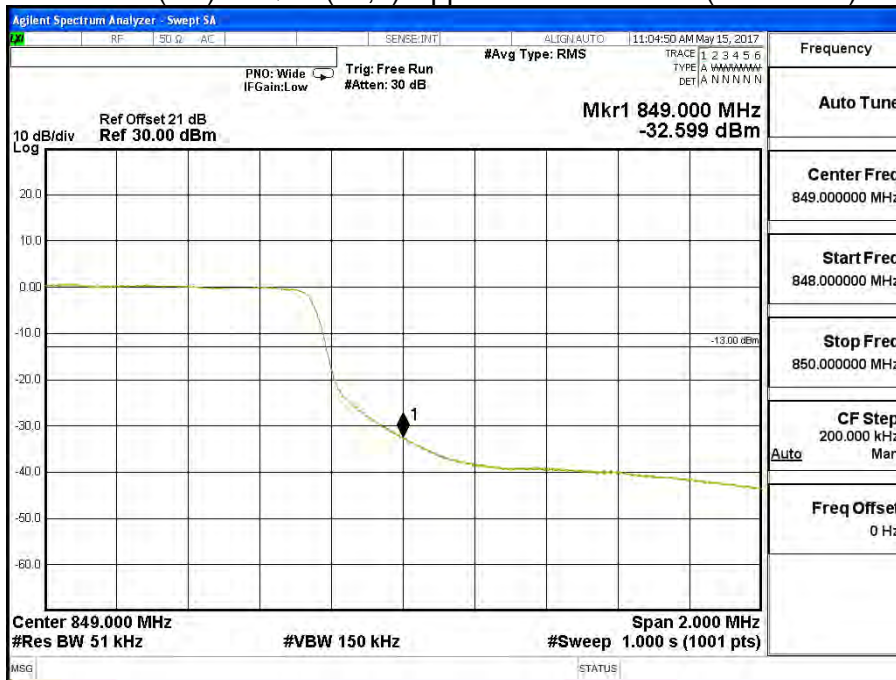
Band 5 (5M) 16QAM(1,24) Upper Channel 20625 (846.5MHz)



Band 5 (5M) 16QAM(25,0) Lower Channel 20425 (826.5MHz)

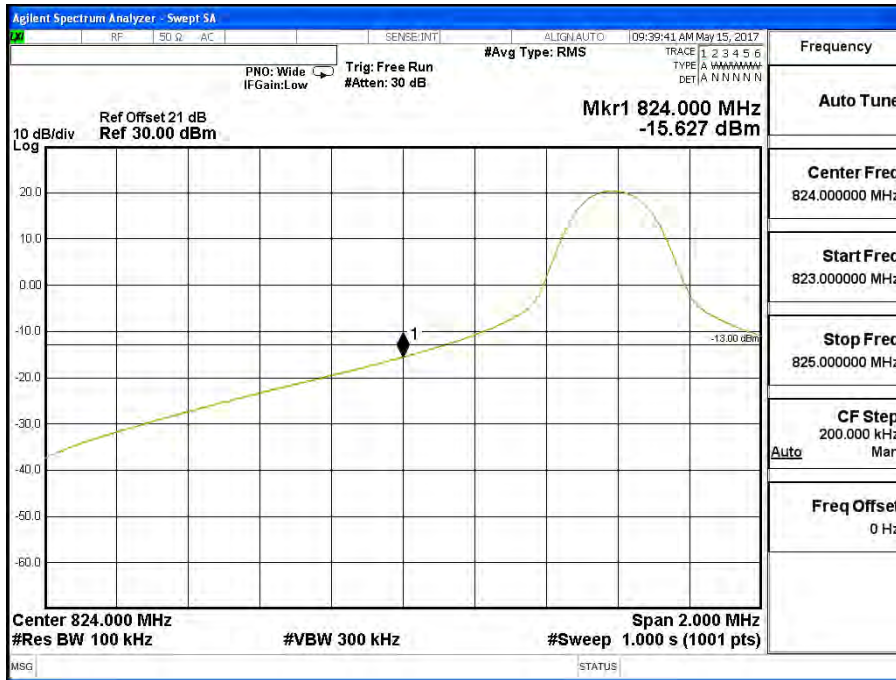


Band 5 (5M) 16QAM(25,0) Upper Channel 20625 (846.5MHz)

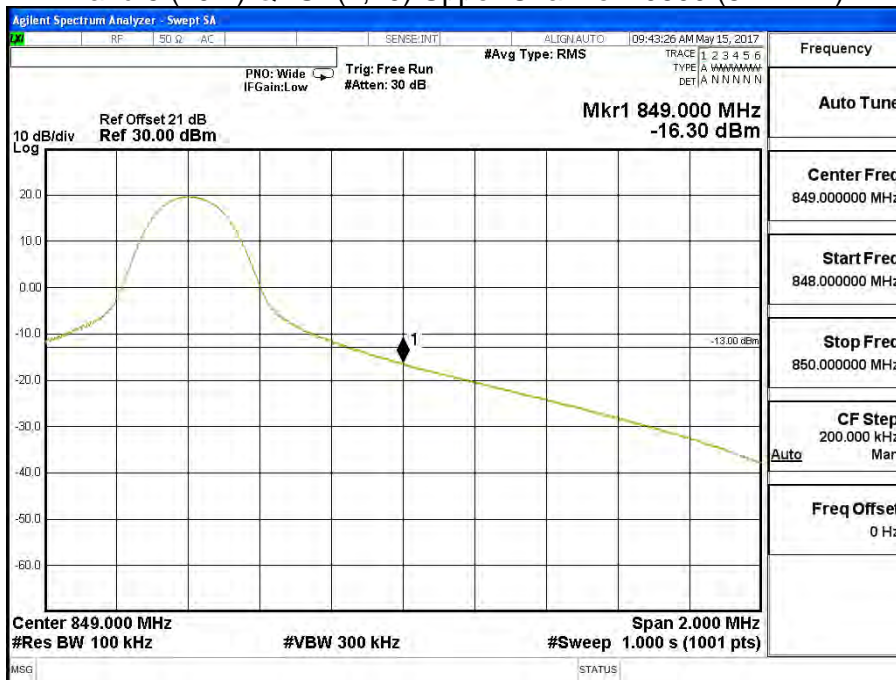


Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission At Antenna Terminals (+/-1MHz)		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	Block Edge Test (Band 5 (10M))		

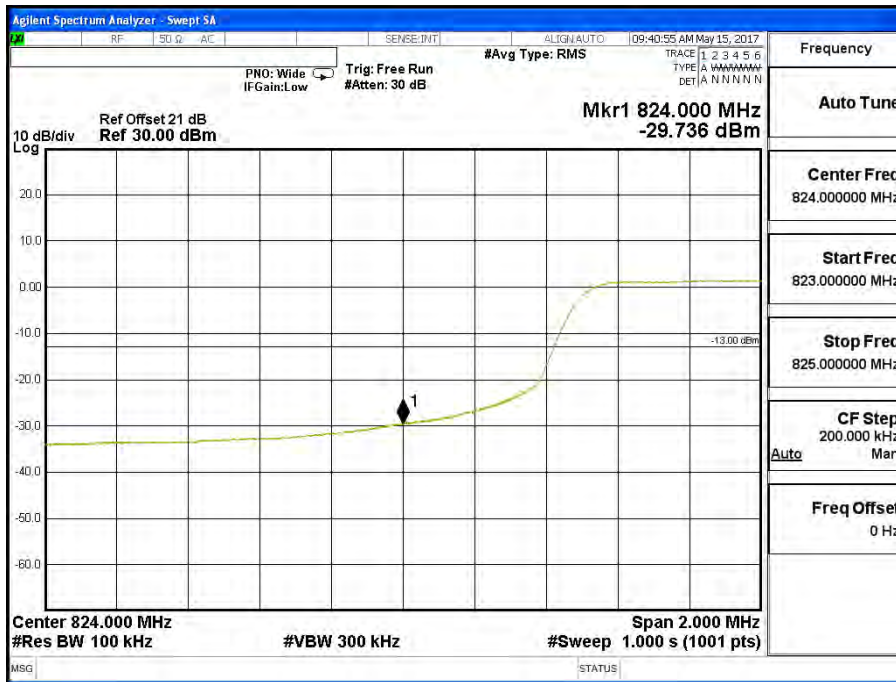
Band 5 (10M) QPSK(1,0) Lower Channel 20450 (829MHz)



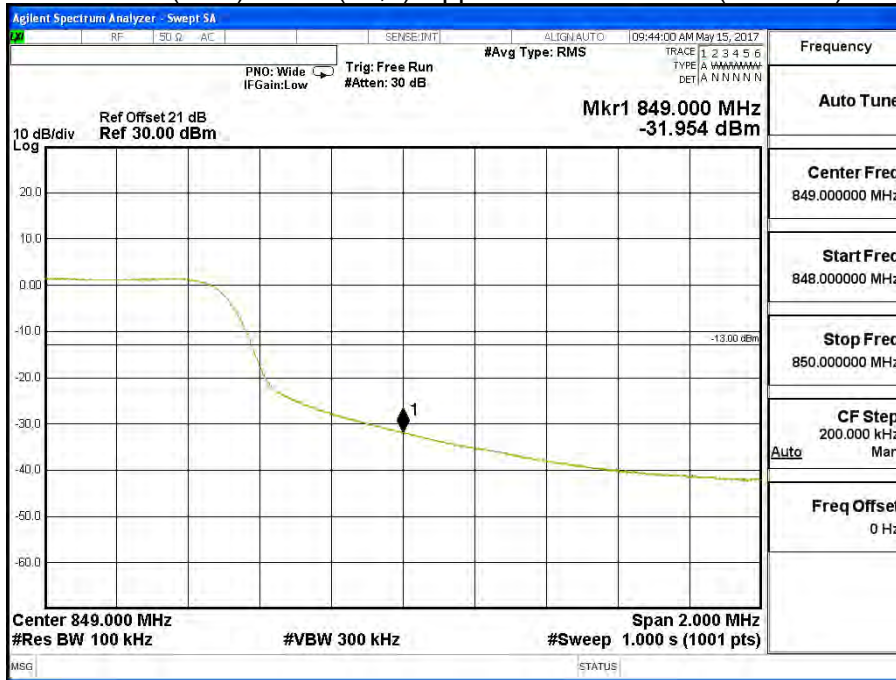
Band 5 (10M) QPSK(1,49) Upper Channel 20600 (844MHz)



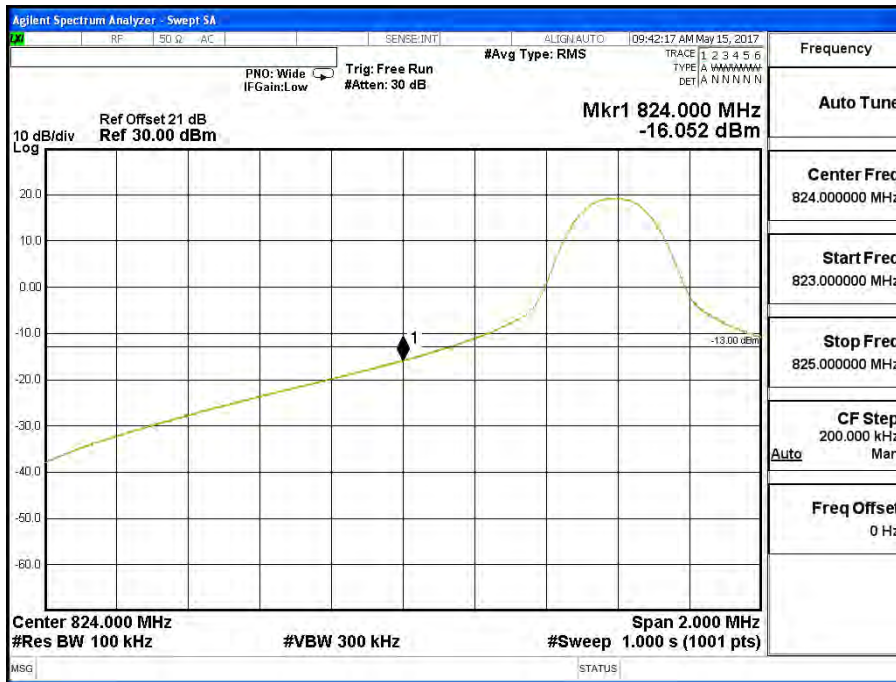
Band 5 (10M) QPSK(50,0) Lower Channel 20450 (829MHz)



Band 5 (10M) QPSK(50,0) Upper Channel 20600 (844MHz)



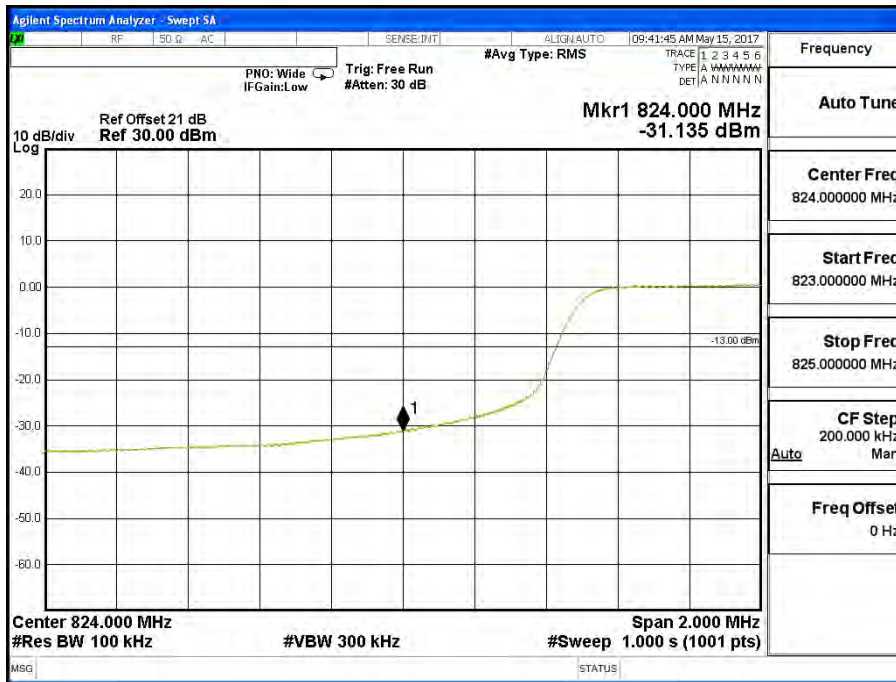
Band 5 (10M) 16QAM(1,0) Lower Channel 20450 (829MHz)



Band 5 (10M) 16QAM(1,49) Upper Channel 20600 (844MHz)



Band 5 (10M) 16QAM(50,0) Lower Channel 20450 (829MHz)



Band 5 (10M) 16QAM(50,0) Upper Channel 20600 (844MHz)

