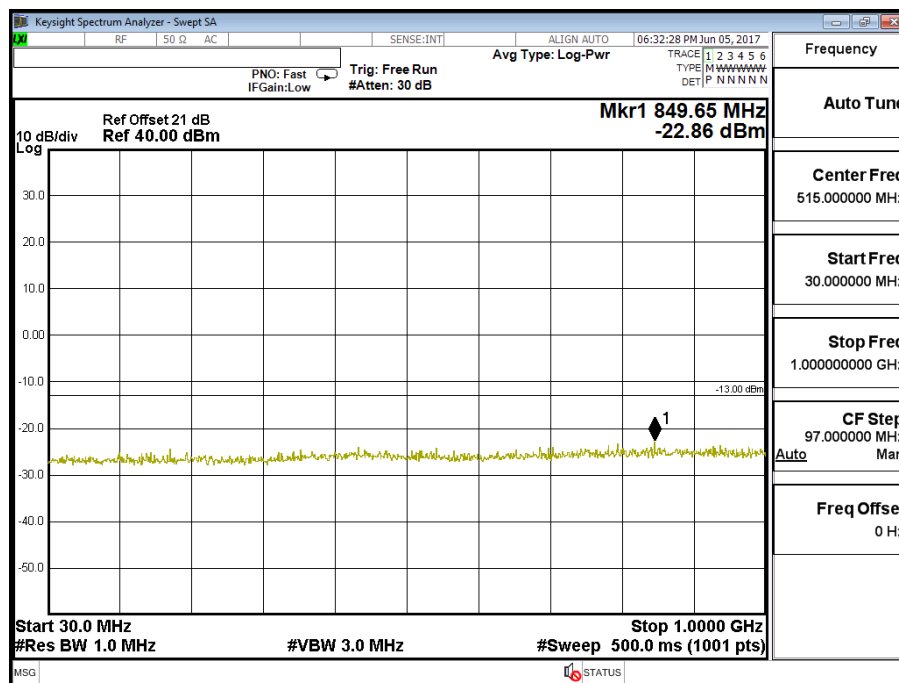
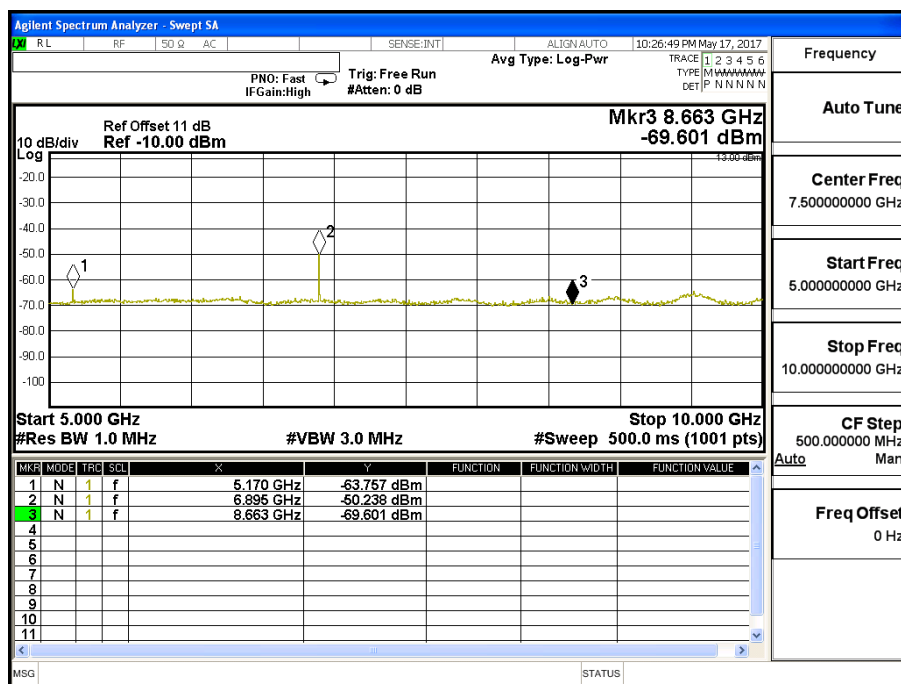
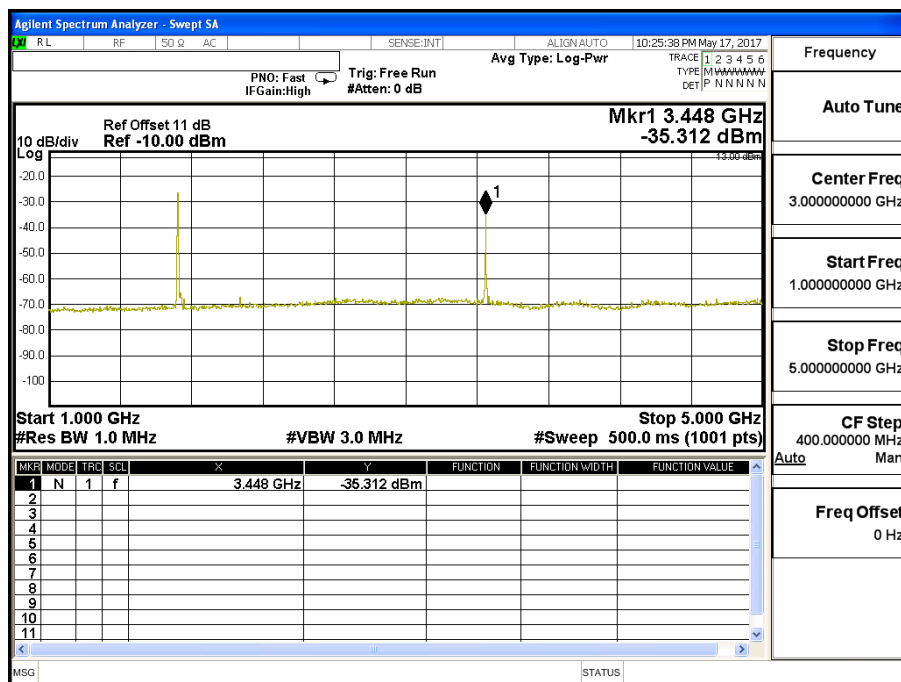


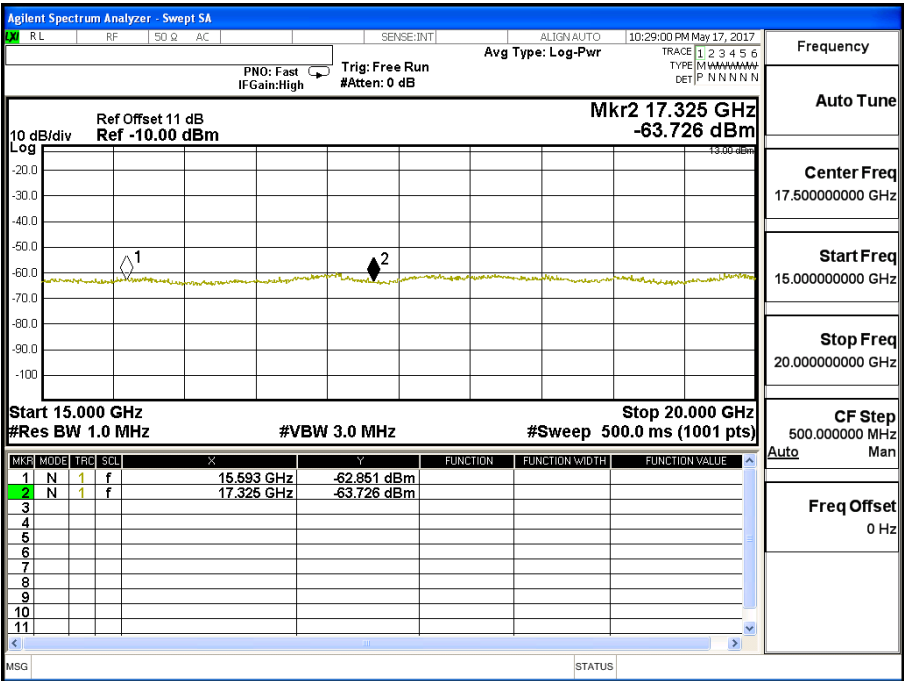
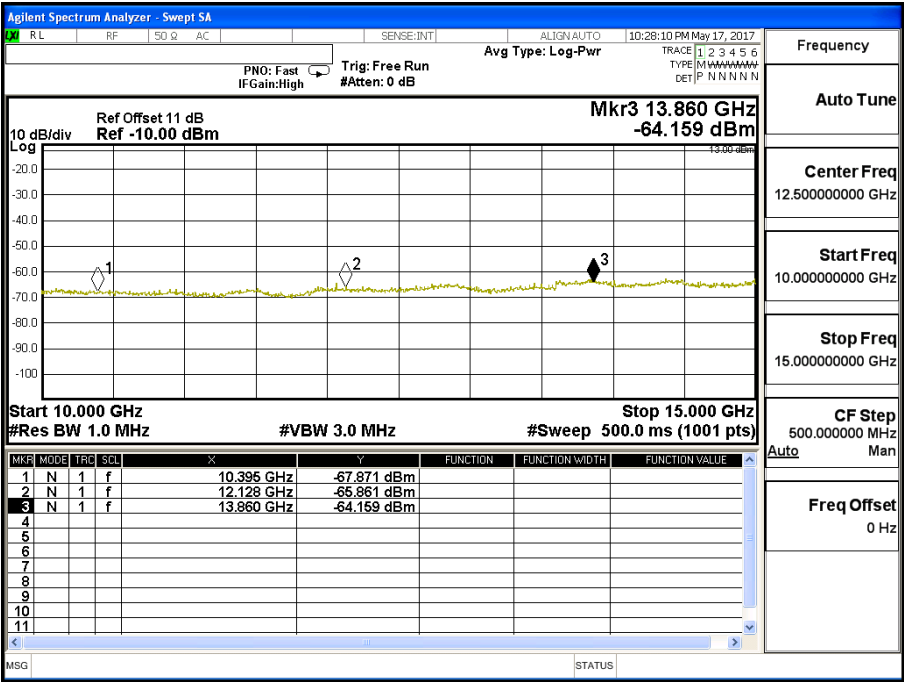
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 4 (20M)	Test Range	30MHz~20GHz

LTE-Band 4 (20M) QPSK(1,0) CH20175

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
3448	-35.312	1.1	-34.212	-13
5170	-63.757	1.23	-62.527	-13
6895	-50.238	1.59	-48.648	-13
8663	-69.601	1.89	-67.711	-13
10395	-67.871	2.07	-65.801	-13
12128	-65.861	2.26	-63.601	-13
13860	-64.159	2.64	-61.519	-13
15593	-62.851	3.5	-59.351	-13
17325	-63.726	3.7	-60.026	-13



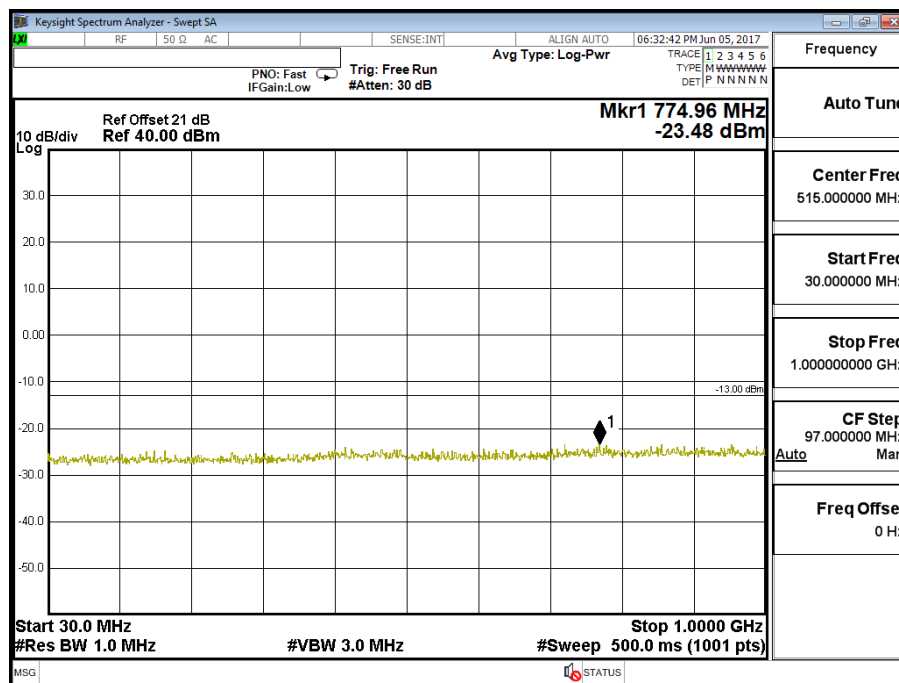


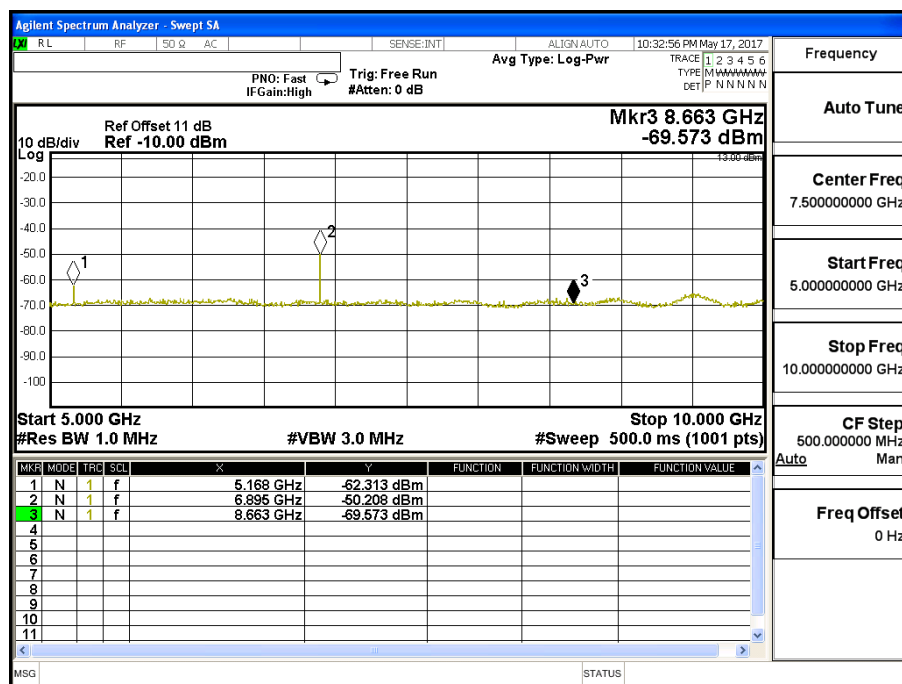
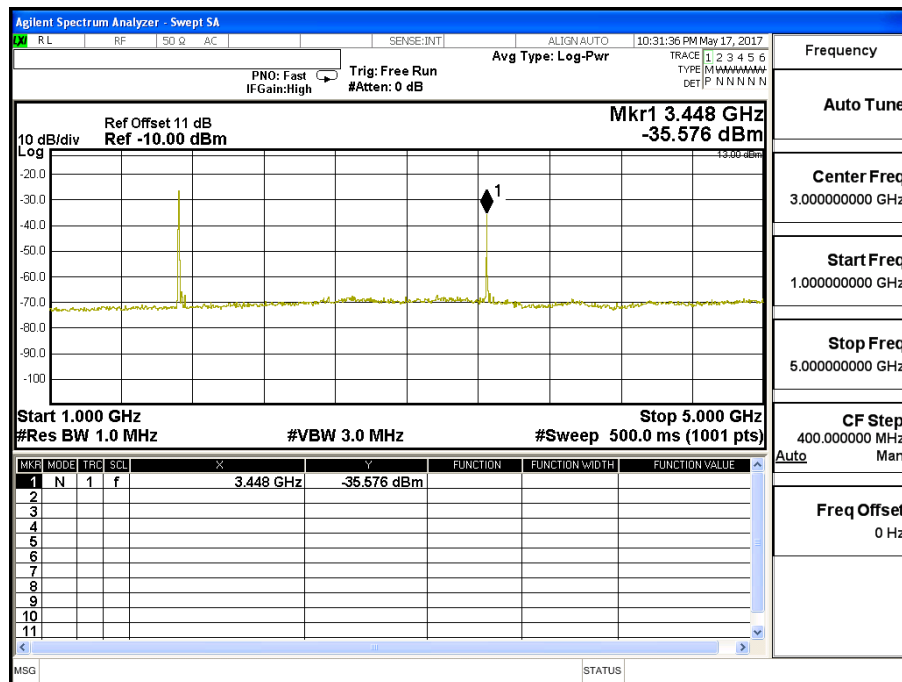


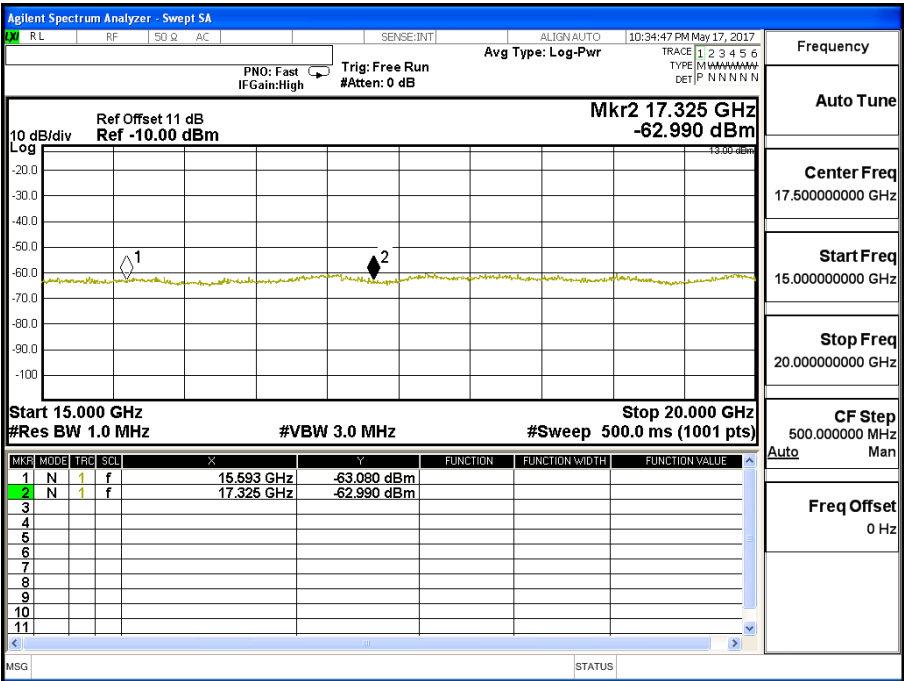
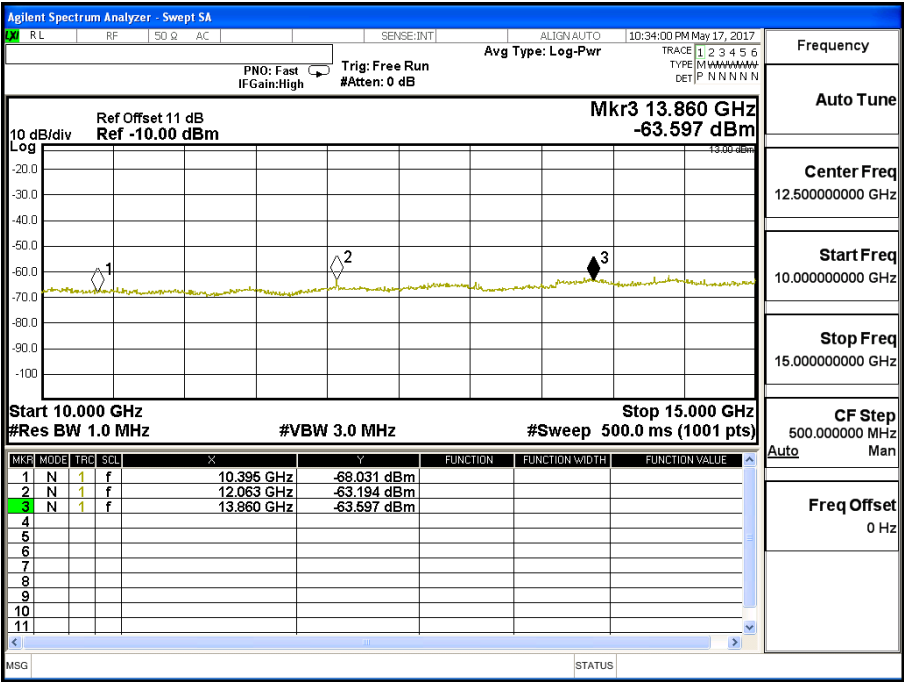
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 4 (20M)	Test Range	30MHz~20GHz

LTE-Band 4 (20M) 16QAM(1,0) CH20175

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
3448	-35.576	1.1	-34.476	-13
5168	-62.313	1.23	-61.083	-13
6895	-50.208	1.59	-48.618	-13
8663	-69.573	1.89	-67.683	-13
10395	-68.031	2.07	-65.961	-13
12063	-63.194	2.26	-60.934	-13
13860	-63.597	2.64	-60.957	-13
15593	-63.080	3.5	-59.580	-13
17325	-62.990	3.7	-59.290	-13



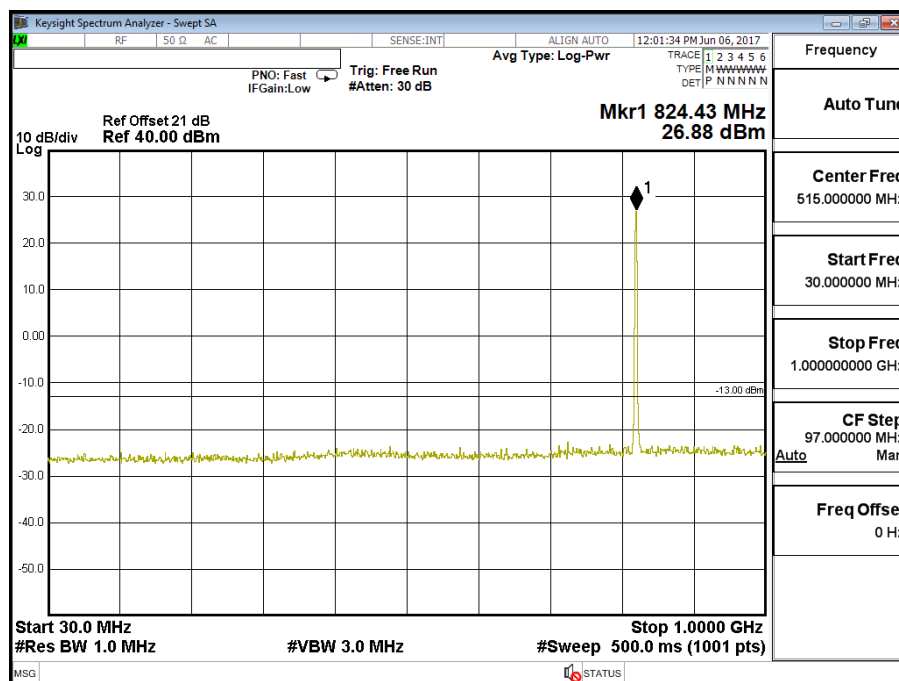


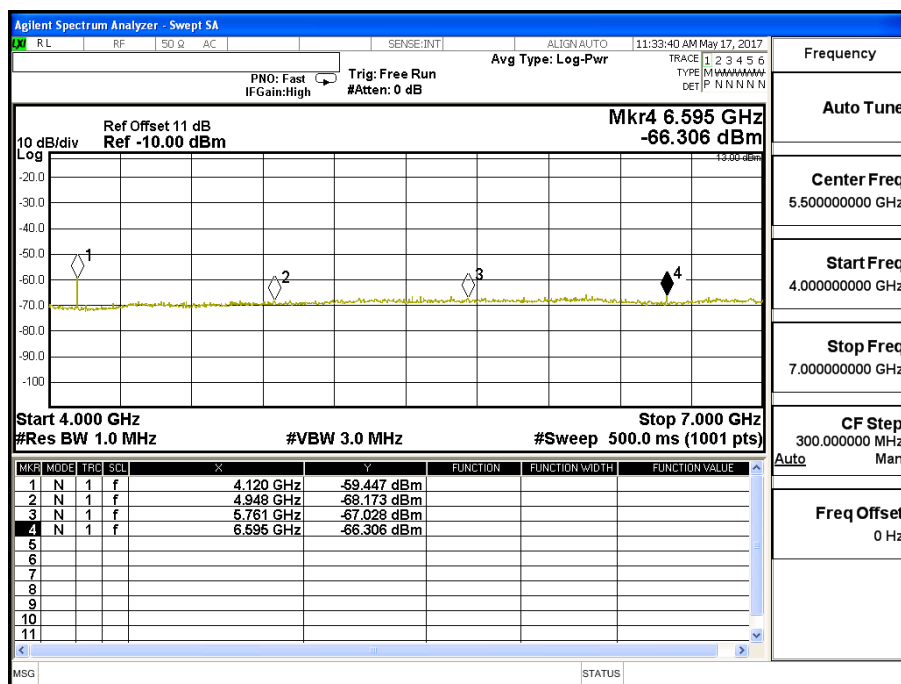
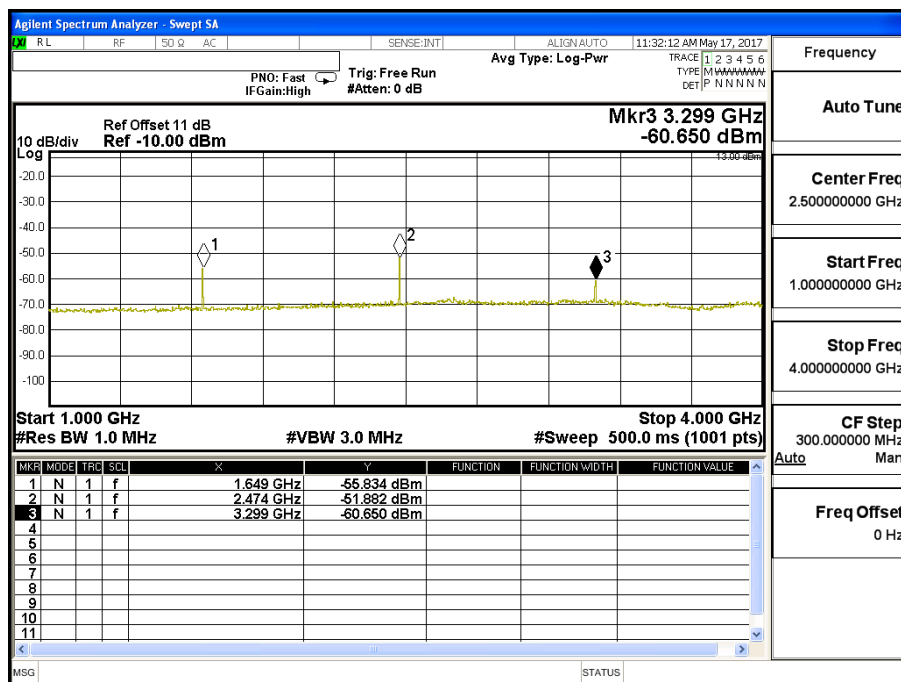


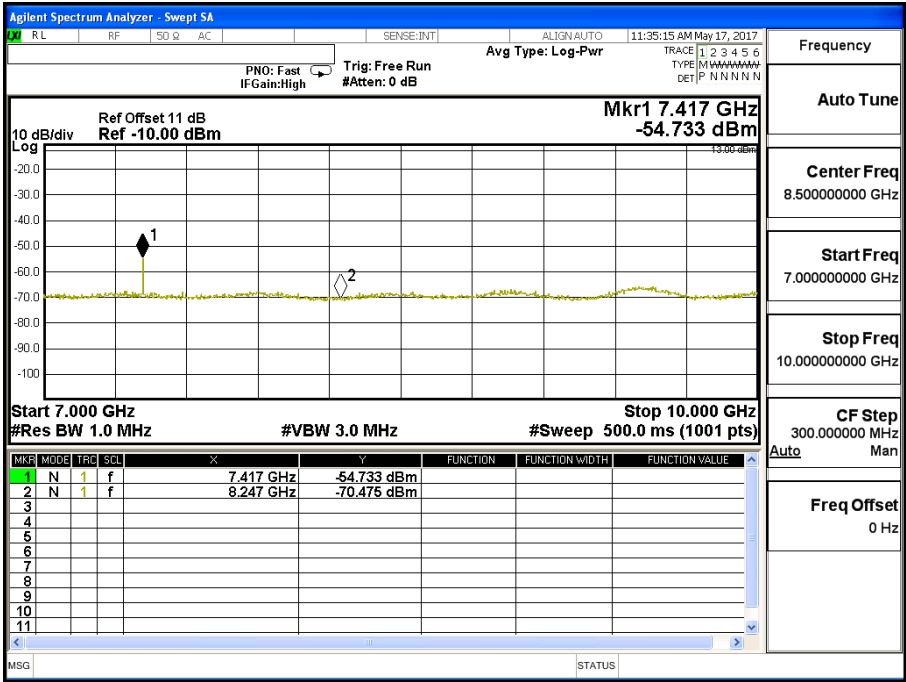
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 5 (1.4M)	Test Range	30MHz~10GHz

LTE-Band 5 (1.4M) QPSK(1,0) CH20407

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1649	-55.834	0.58	-55.254	-13
2474	-51.882	0.7	-51.182	-13
3299	-60.650	1.01	-59.640	-13
4120	-59.447	1.18	-58.267	-13
4948	-68.173	1.23	-66.943	-13
5761	-67.028	1.45	-65.578	-13
6595	-66.306	1.56	-64.746	-13
7417	-54.733	1.59	-53.143	-13
8247	-70.475	1.82	-68.655	-13



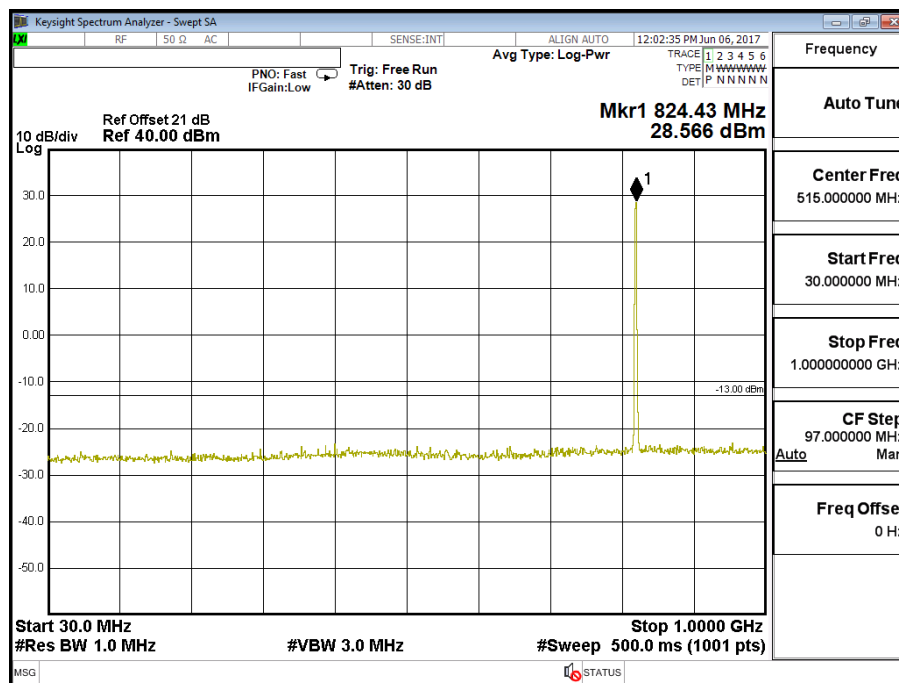


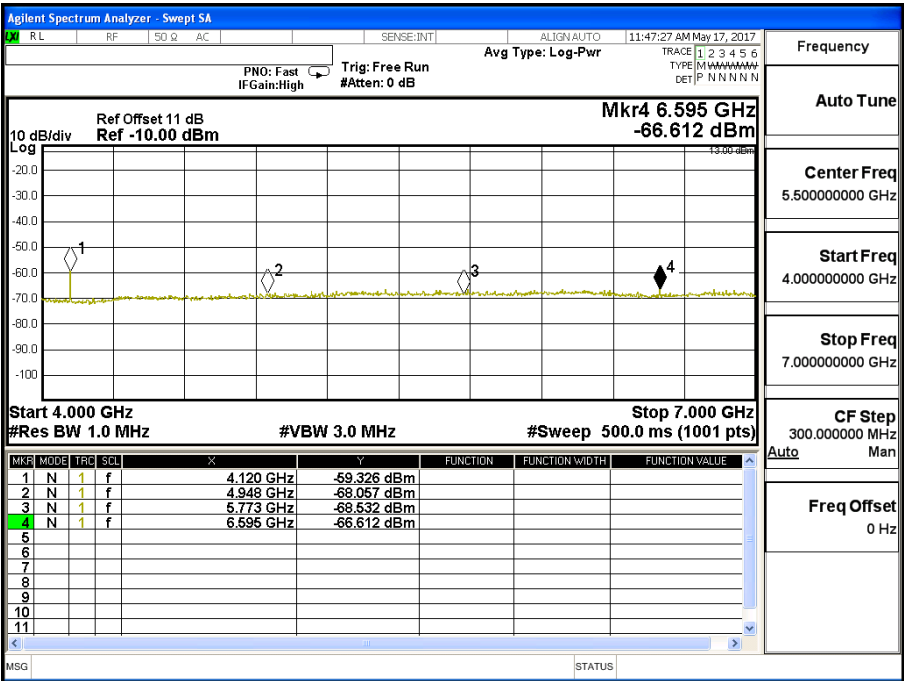
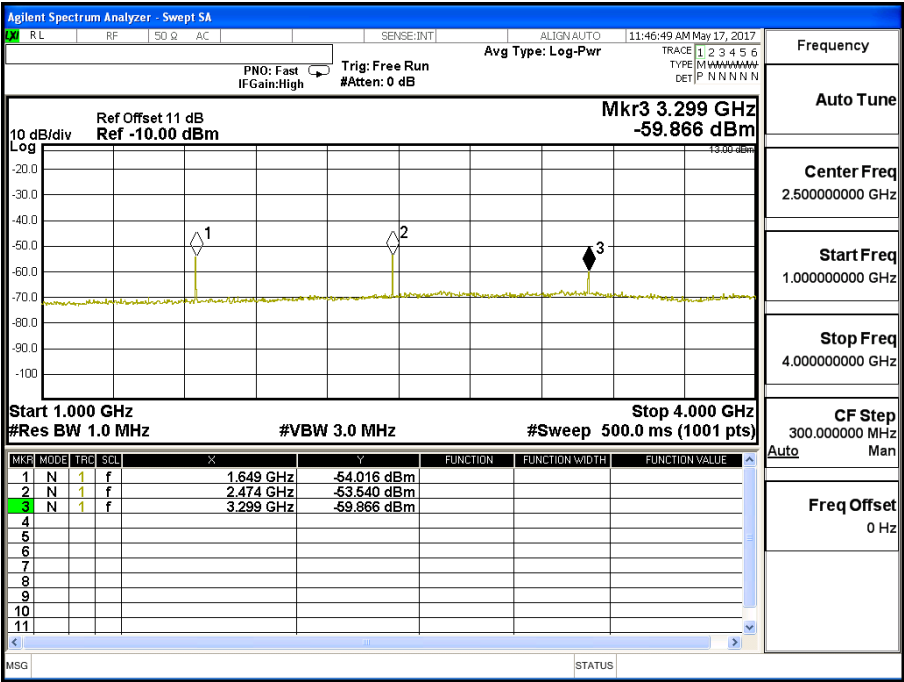


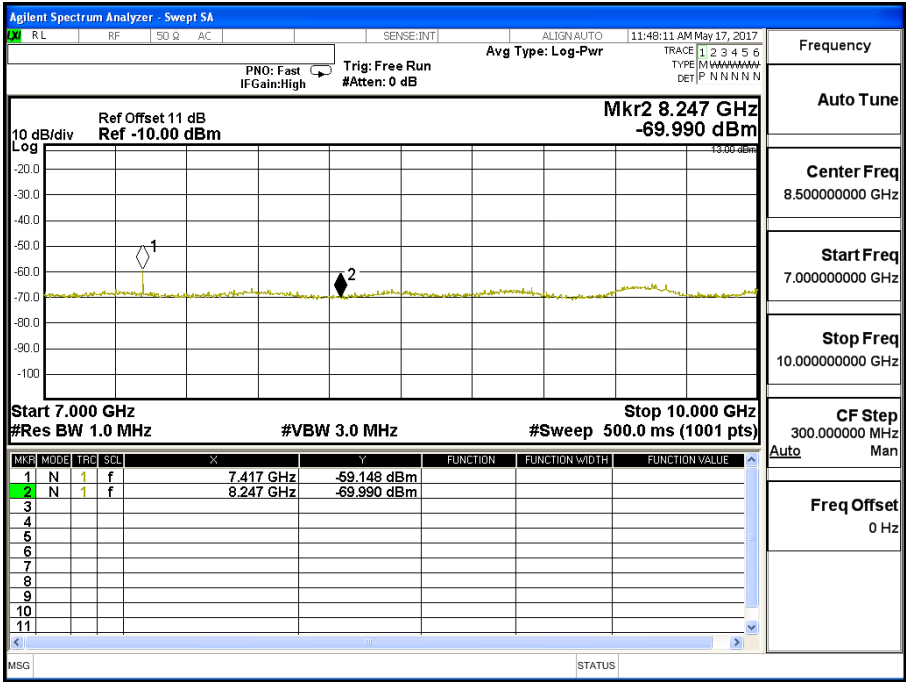
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 5 (1.4M)	Test Range	30MHz~10GHz

LTE-Band 5 (1.4M) 16QAM(1,0) CH20407

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1649	-54.016	0.58	-53.436	-13
2474	-53.540	0.7	-52.840	-13
3299	-59.866	1.01	-58.856	-13
4120	-59.326	1.18	-58.146	-13
4948	-68.057	1.23	-66.827	-13
5773	-68.532	1.45	-67.082	-13
6595	-66.612	1.56	-65.052	-13
7417	-59.148	1.59	-57.558	-13
8247	-69.990	1.82	-68.170	-13



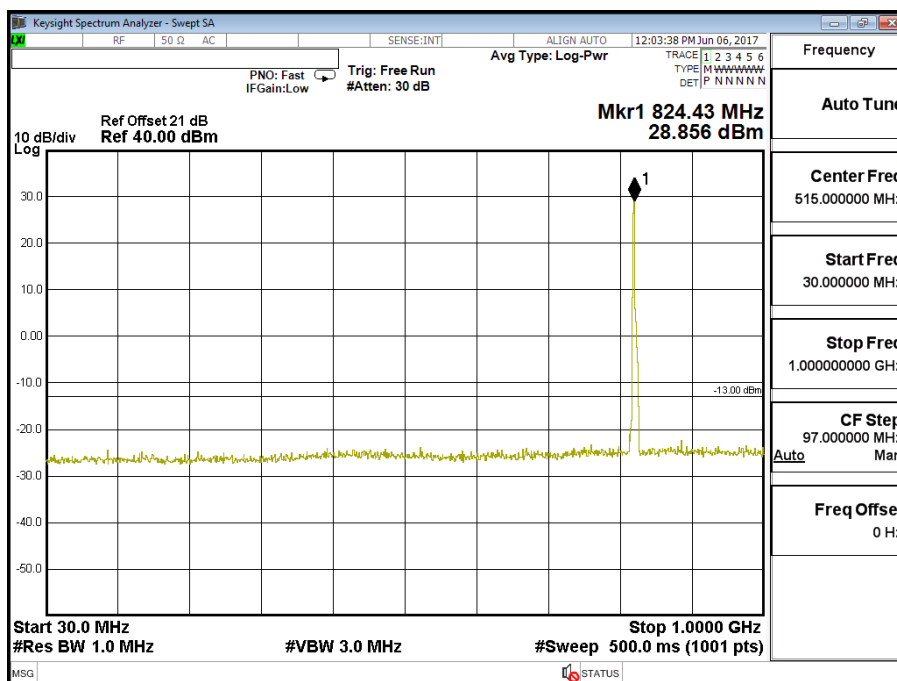


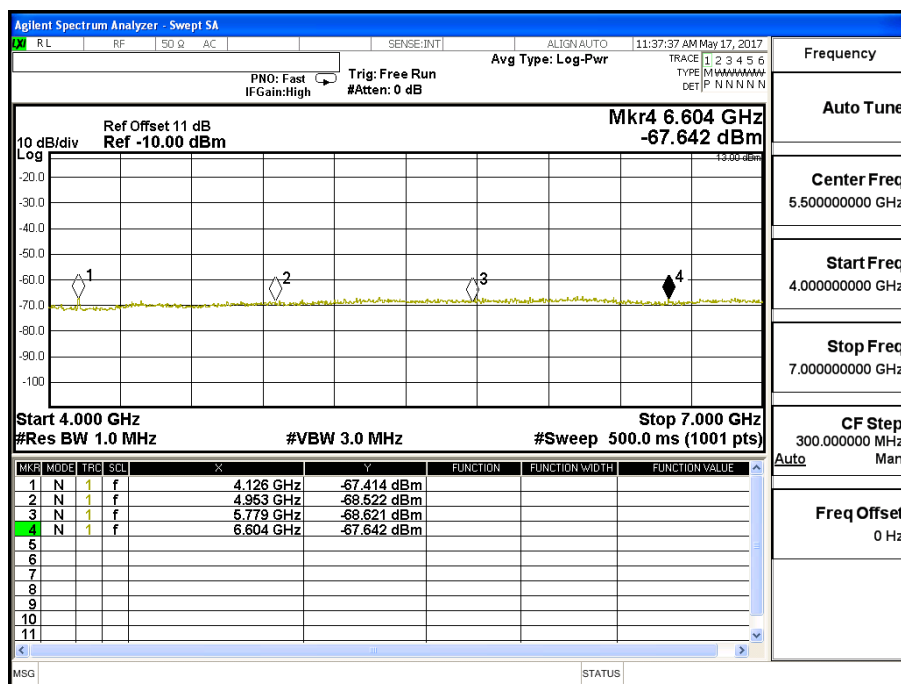
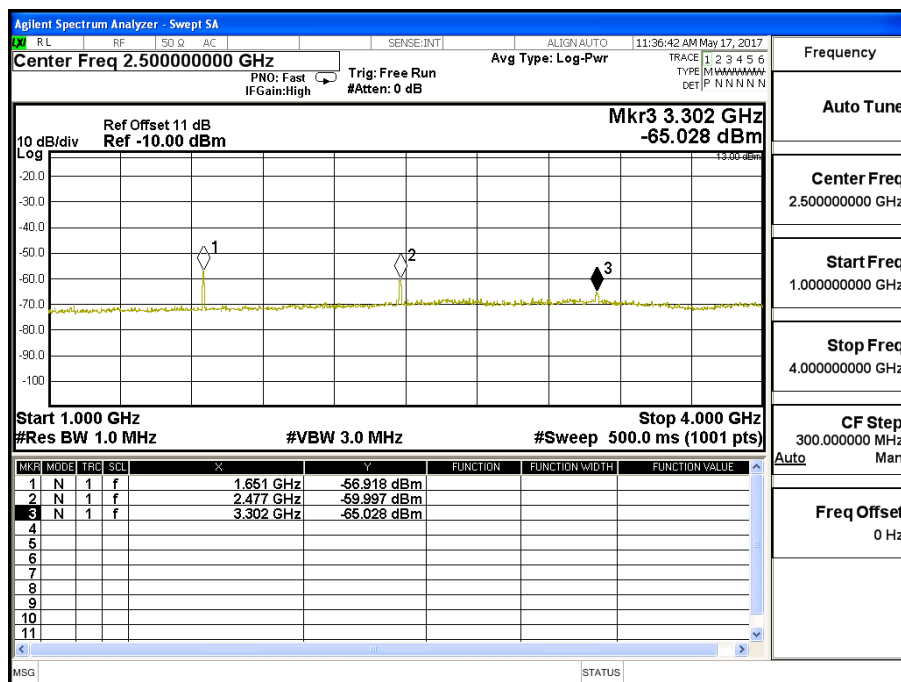


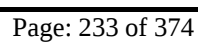
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 5 (3M)	Test Range	30MHz~10GHz

LTE-Band 5 (3M) QPSK(1,0) CH20415

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1651	-56.918	0.58	-56.338	-13
2477	-59.997	0.7	-59.297	-13
3302	-65.028	1.01	-64.018	-13
4126	-67.414	1.18	-66.234	-13
4953	-68.522	1.23	-67.292	-13
5779	-68.621	1.45	-67.171	-13
6604	-67.642	1.56	-66.082	-13
7430	-66.543	1.59	-64.953	-13
8255	-70.459	1.82	-68.639	-13



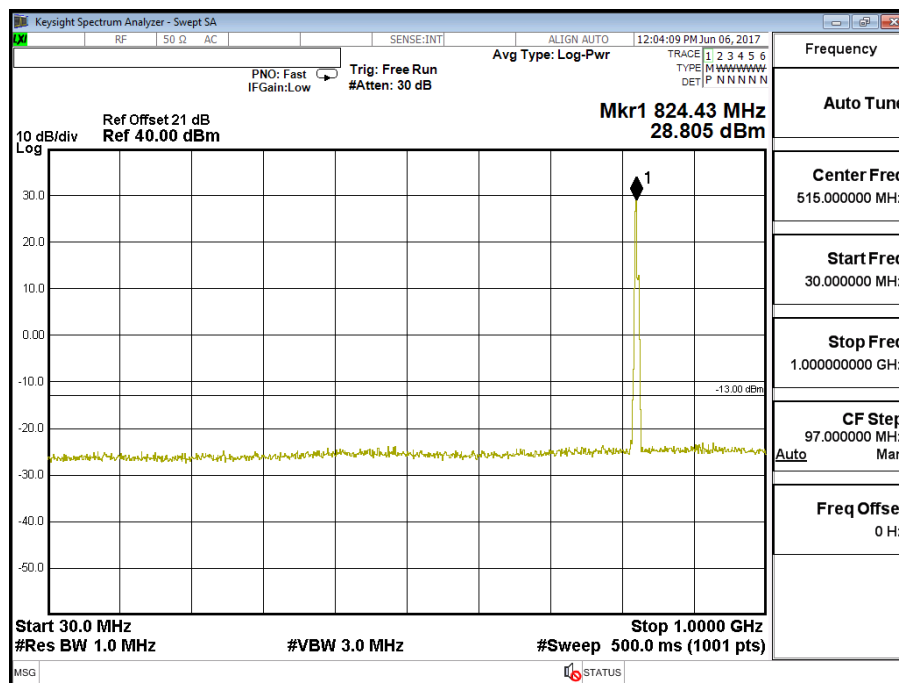


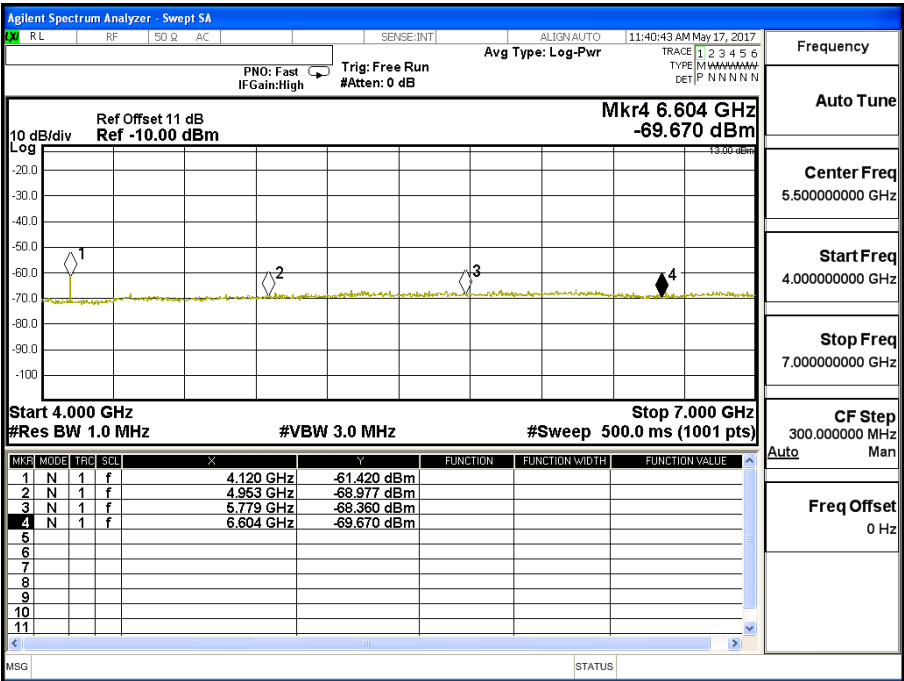
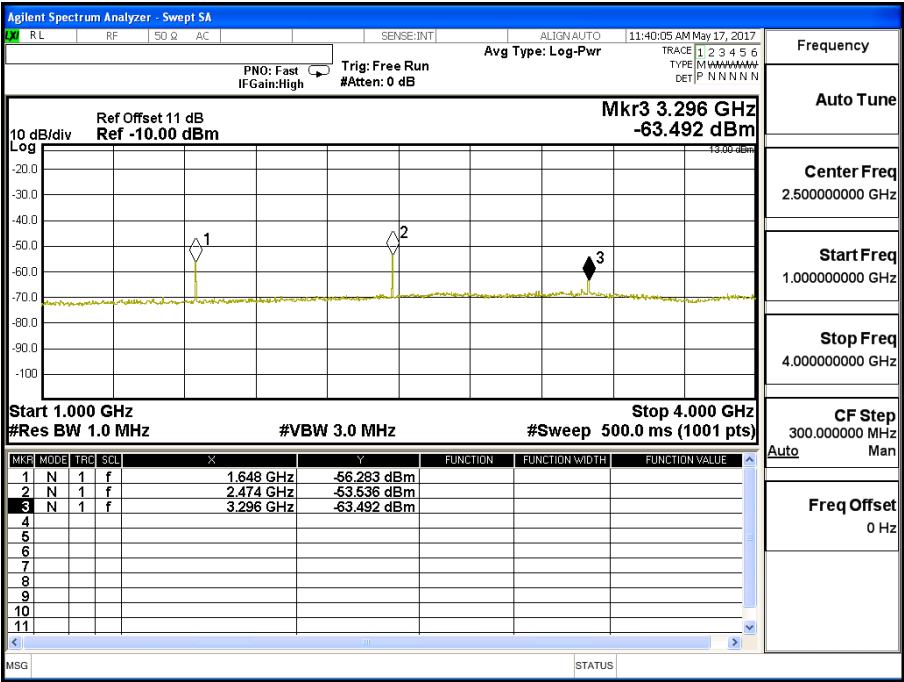


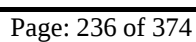
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 5 (3M)	Test Range	30MHz~10GHz

LTE-Band 5 (3M) 16QAM(1,0) CH20415

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1648	-56.283	0.58	-55.703	-13
2474	-53.536	0.7	-52.836	-13
3296	-63.492	1.01	-62.482	-13
4120	-61.420	1.18	-60.240	-13
4953	-68.977	1.23	-67.747	-13
5779	-68.360	1.45	-66.910	-13
6604	-69.670	1.56	-68.110	-13
7417	-61.170	1.59	-59.580	-13
8255	-69.986	1.82	-68.166	-13



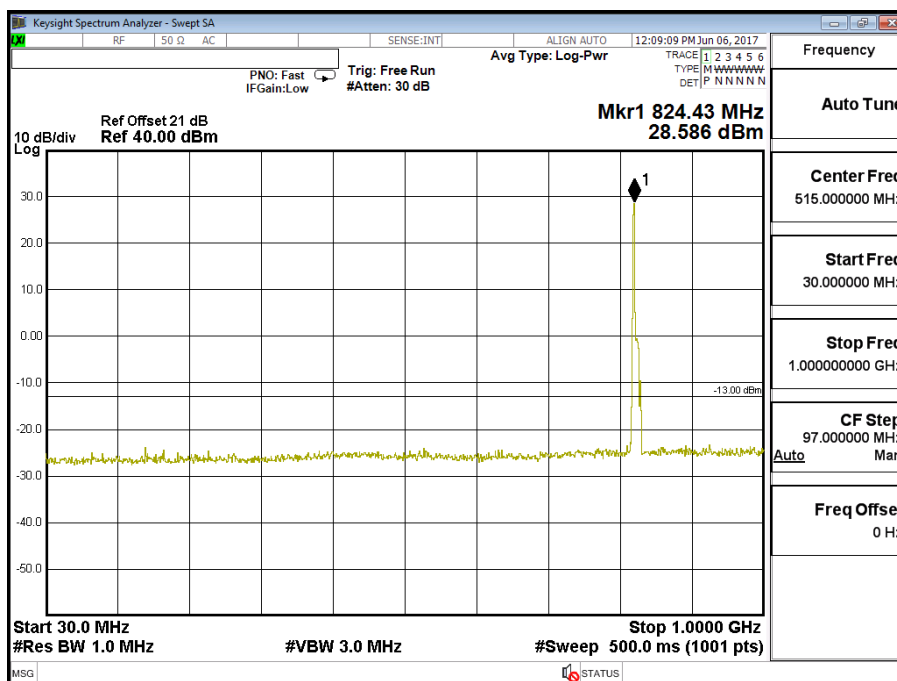


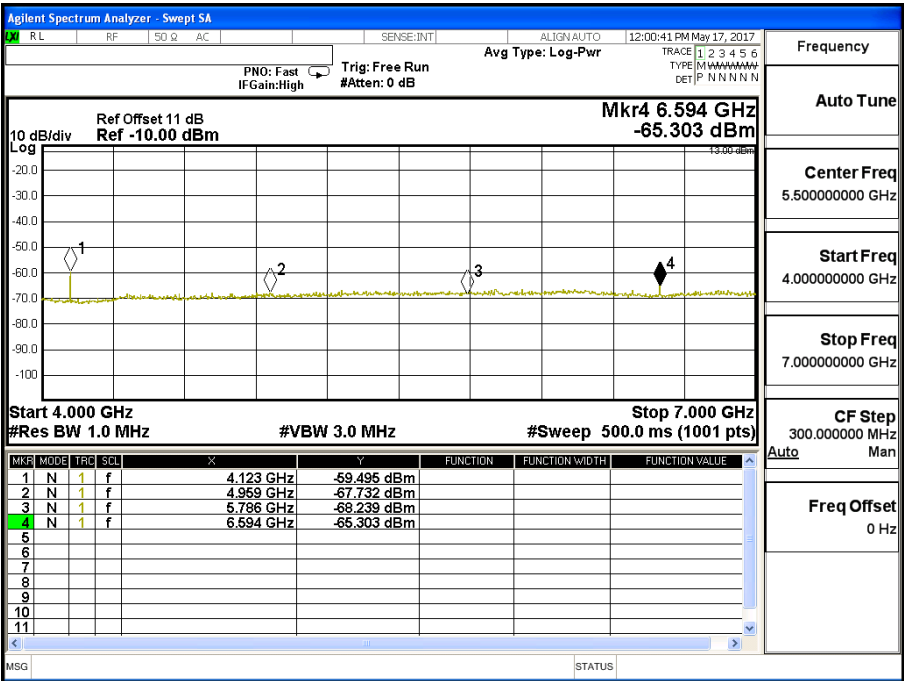
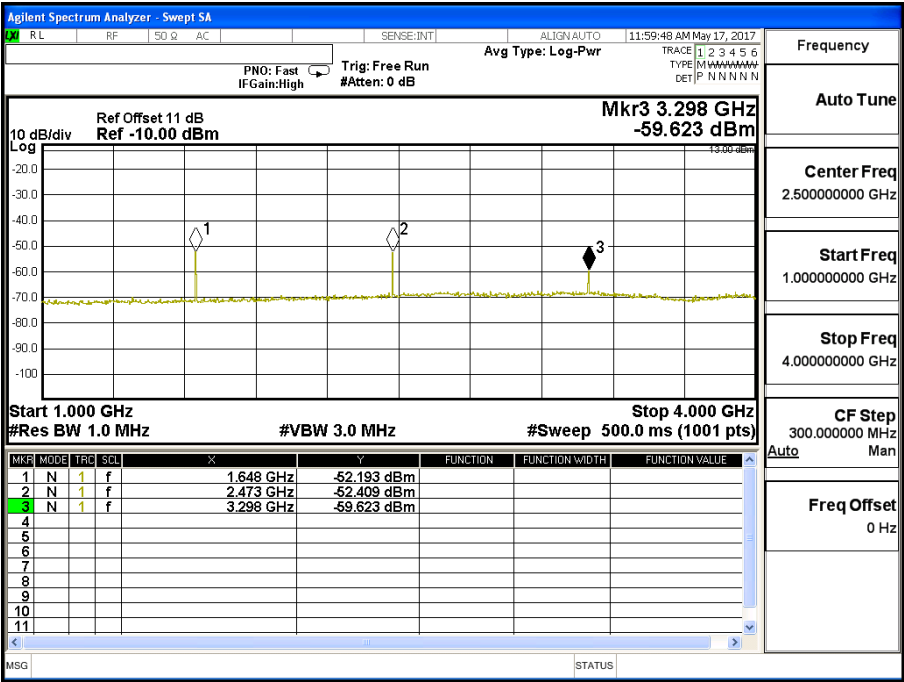


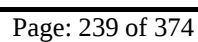
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 5 (5M)	Test Range	30MHz~10GHz

LTE-Band 5 (5M) QPSK(1,0) CH20425

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1648	-52.193	0.58	-51.613	-13
2473	-52.409	0.7	-51.709	-13
3298	-59.623	1.01	-58.613	-13
4123	-59.495	1.18	-58.315	-13
4959	-67.732	1.23	-66.502	-13
5786	-68.239	1.45	-66.789	-13
6594	-65.303	1.56	-63.743	-13
7420	-56.523	1.59	-54.933	-13
8259	-68.988	1.82	-67.168	-13



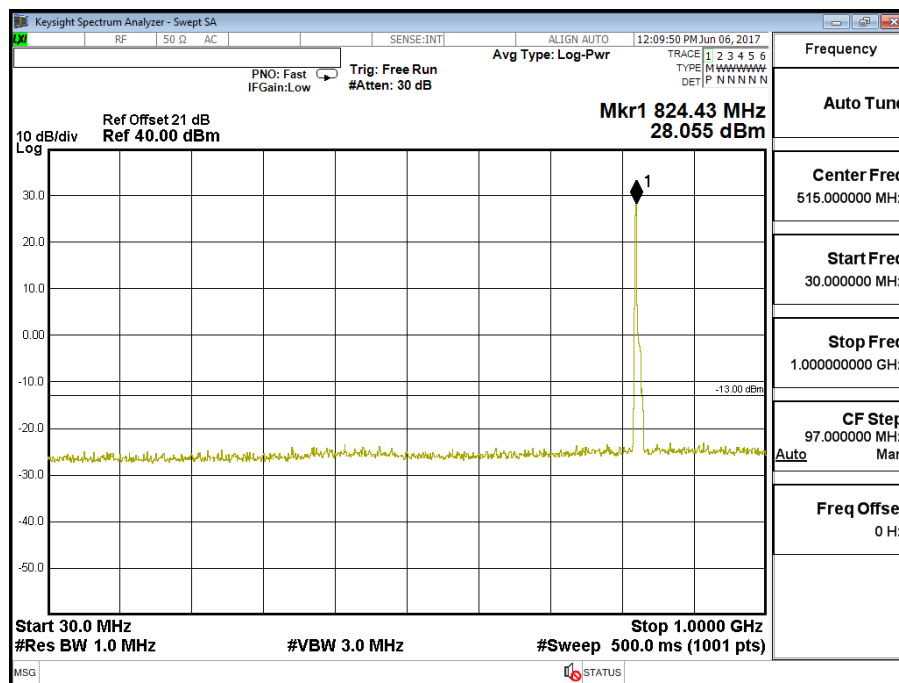


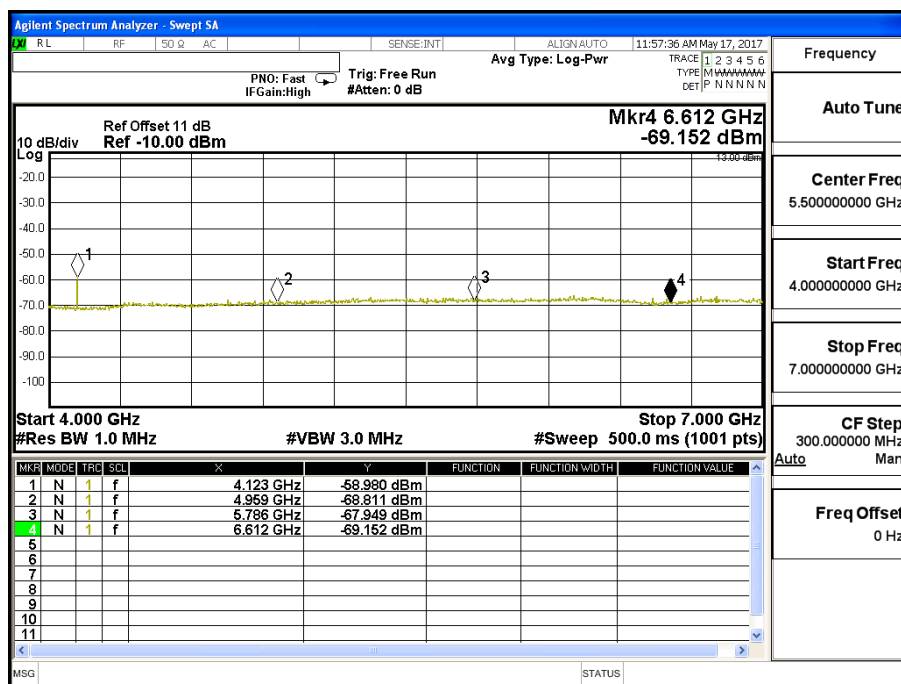
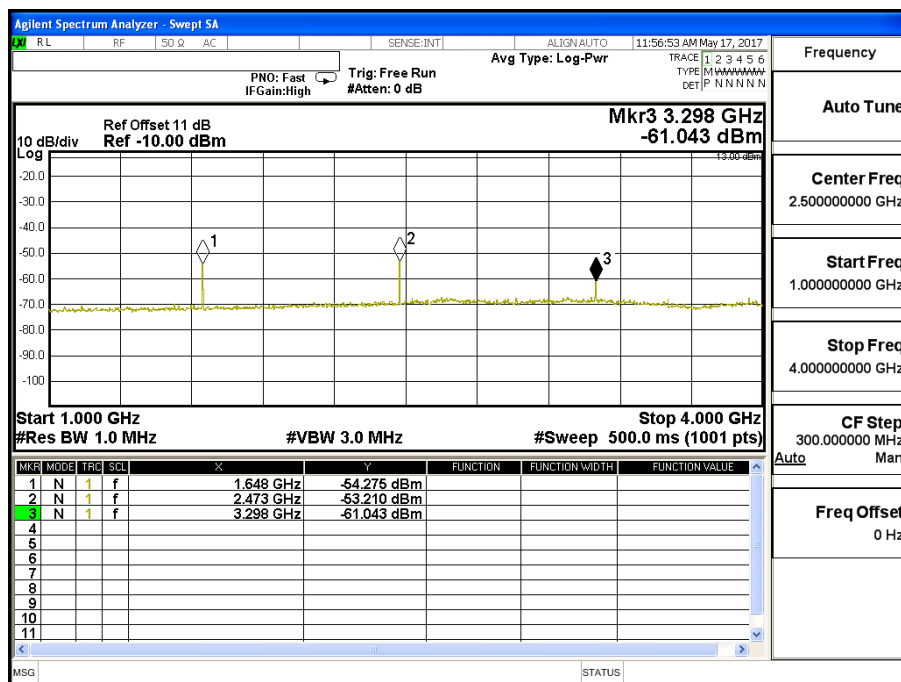


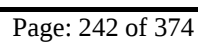
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 5 (5M)	Test Range	30MHz~10GHz

LTE-Band 5 (5M) 16QAM(1,0) CH20425

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1648	-54.275	0.58	-53.695	-13
2473	-53.210	0.7	-52.510	-13
3298	-61.043	1.01	-60.033	-13
4123	-58.980	1.18	-57.800	-13
4959	-68.811	1.23	-67.581	-13
5786	-67.949	1.45	-66.499	-13
6612	-69.152	1.56	-67.592	-13
7420	-57.007	1.59	-55.417	-13
8265	-70.033	1.82	-68.213	-13



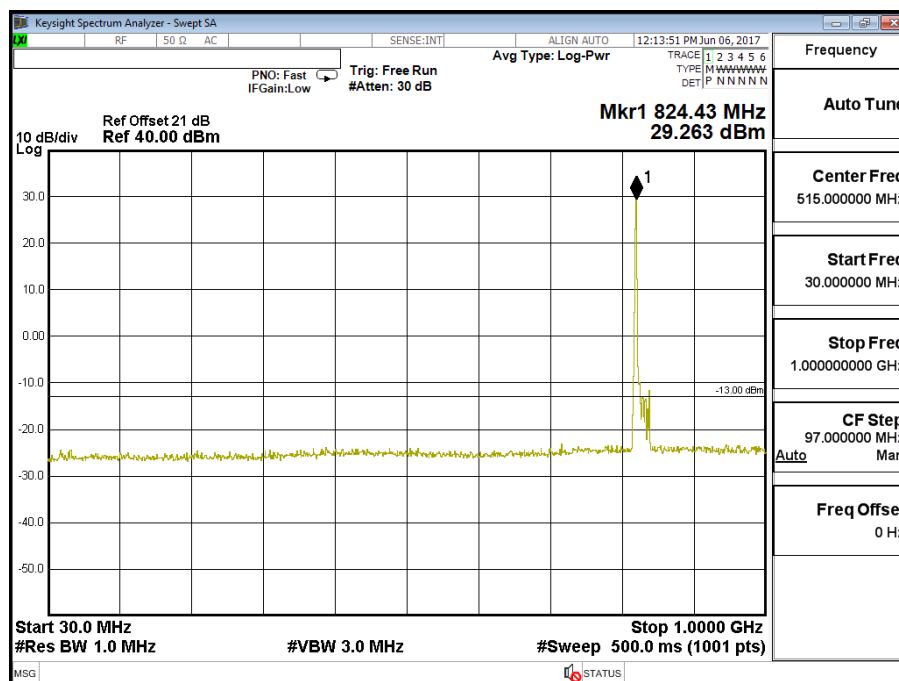


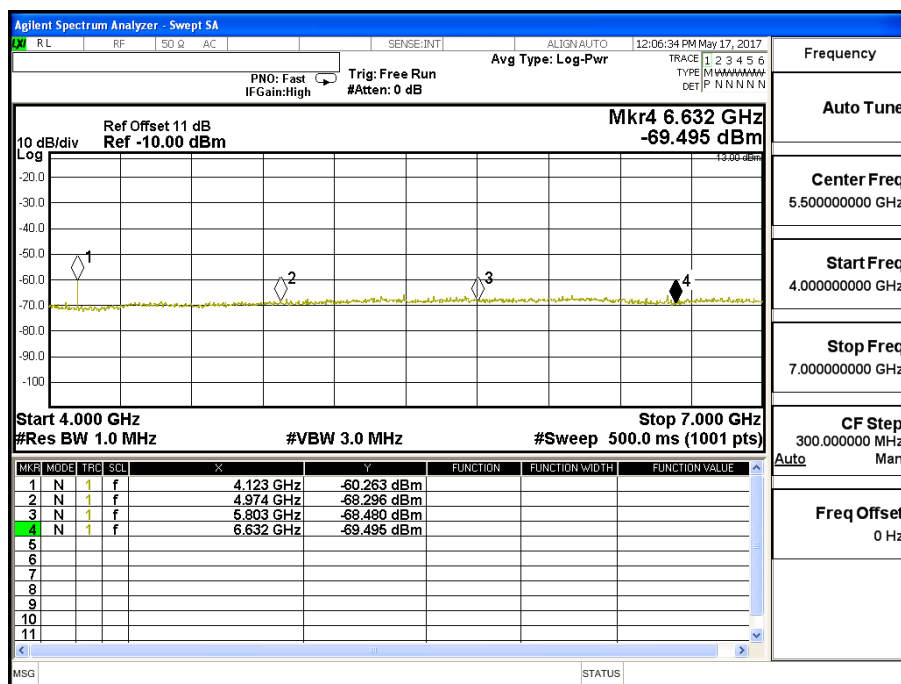
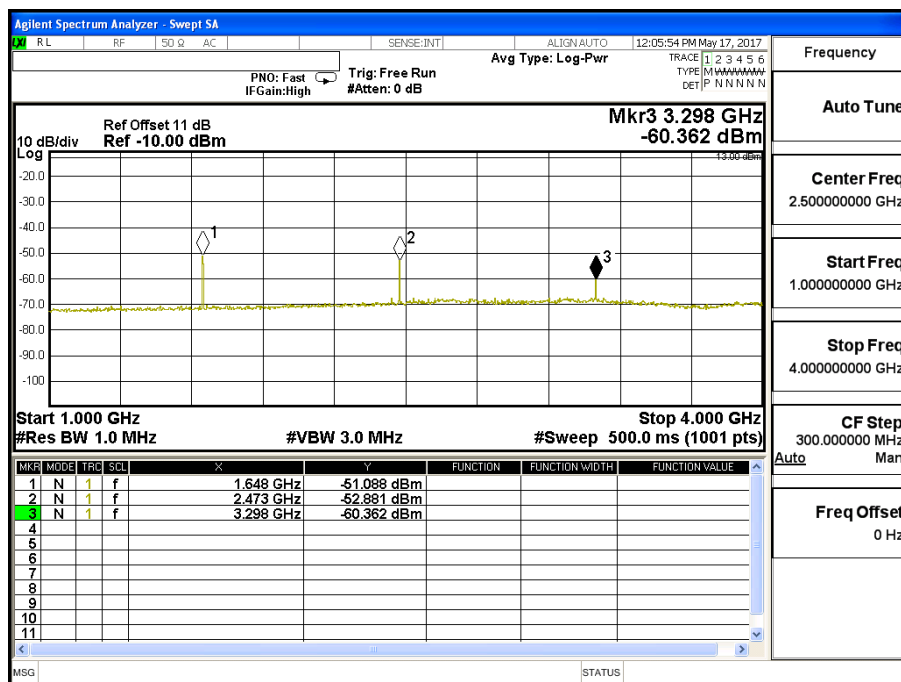


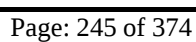
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 5 (10M)	Test Range	30MHz~10GHz

LTE-Band 5 (10M) QPSK(1,0) CH20450

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1648	-51.088	0.58	-50.508	-13
2473	-52.881	0.7	-52.181	-13
3298	-60.362	1.01	-59.352	-13
4123	-60.263	1.18	-59.083	-13
4974	-68.296	1.23	-67.066	-13
5803	-68.480	1.45	-67.030	-13
6632	-69.495	1.56	-67.935	-13
7420	-54.705	1.59	-53.115	-13
8263	-67.879	1.82	-66.059	-13



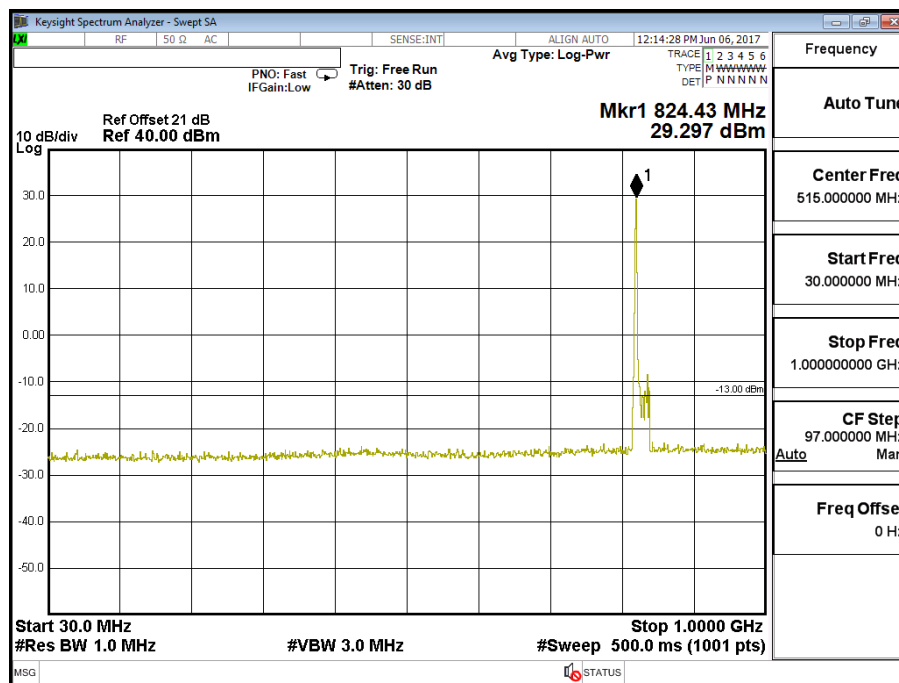


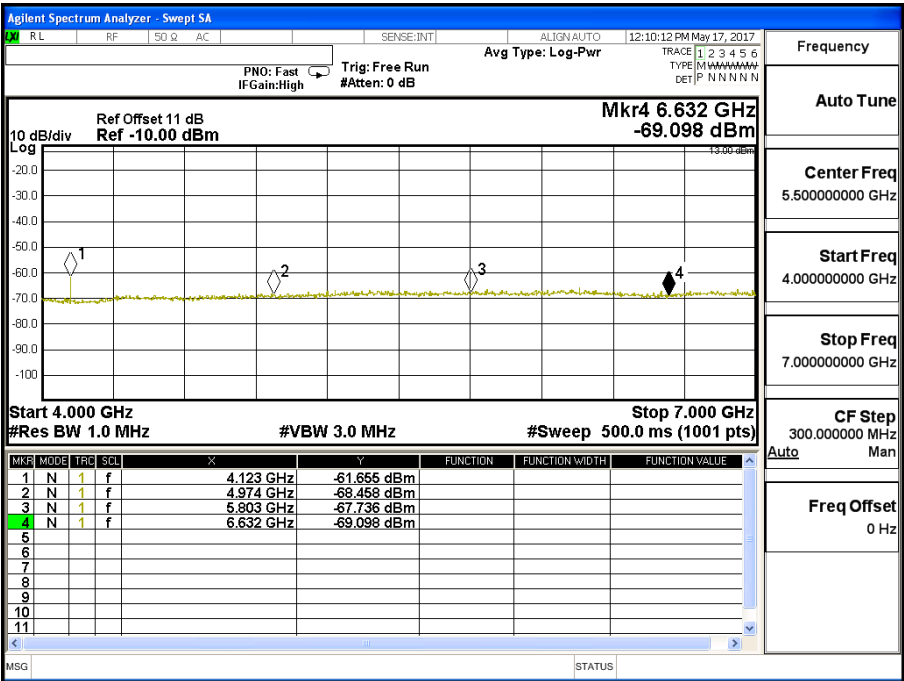
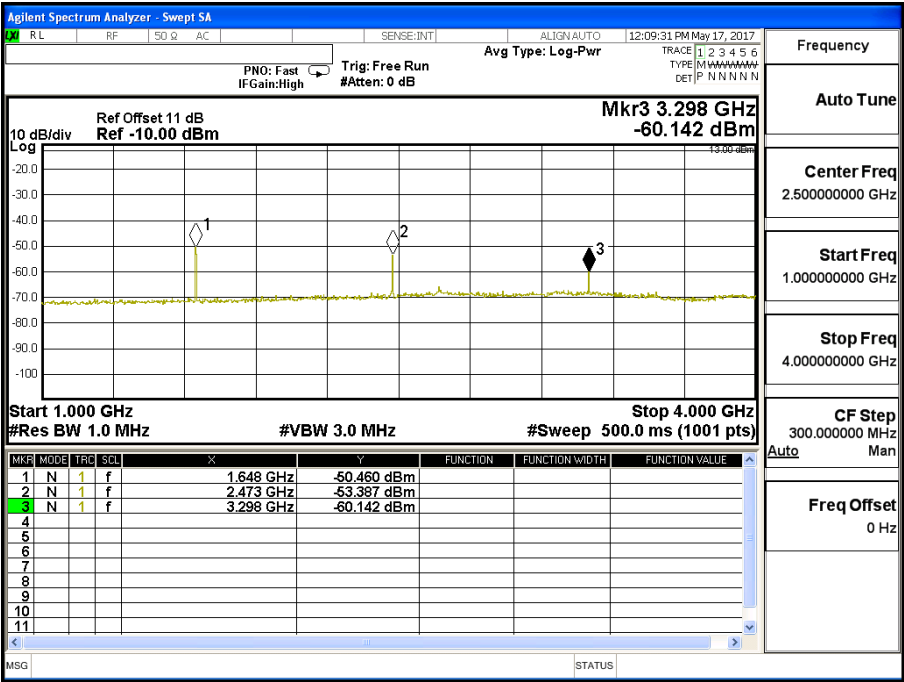


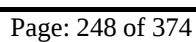
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 5 (10M)	Test Range	30MHz~10GHz

LTE-Band 5 (10M) 16QAM(1,0) CH20450

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1648	-50.460	0.58	-49.880	-13
2473	-53.387	0.7	-52.687	-13
3298	-60.142	1.01	-59.132	-13
4123	-61.655	1.18	-60.475	-13
4974	-68.458	1.23	-67.228	-13
5803	-67.736	1.45	-66.286	-13
6632	-69.098	1.56	-67.538	-13
7420	-56.796	1.59	-55.206	-13
8290	-69.664	1.82	-67.844	-13



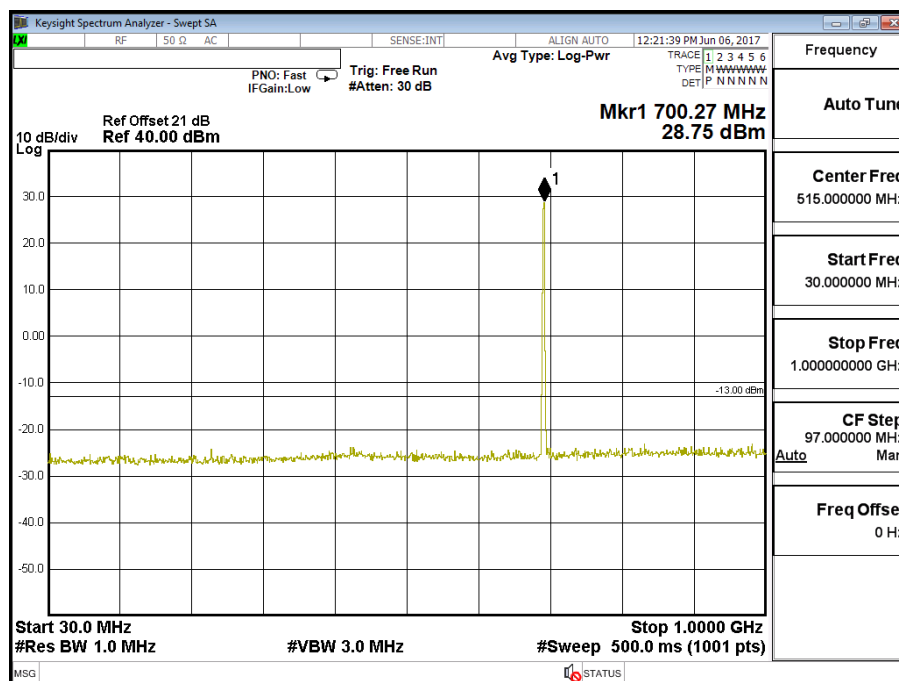


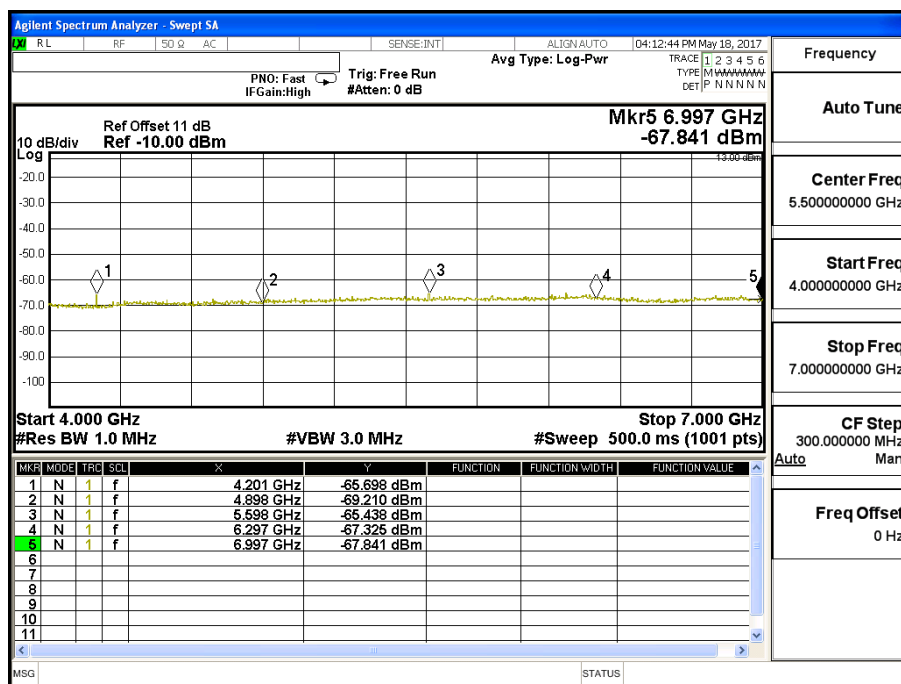
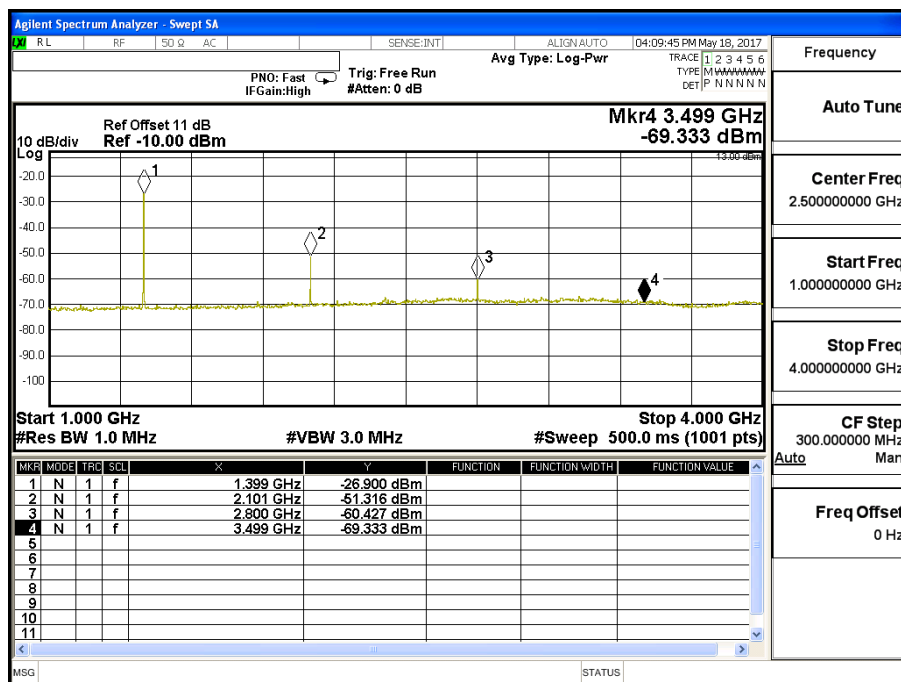


Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 12 (1.4M)	Test Range	30MHz~10GHz

LTE-Band 12 (1.4M) QPSK(1,5) CH23017

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1399	-26.900	0.58	-26.320	-13
2101	-51.316	0.7	-50.616	-13
2800	-60.427	1.01	-59.417	-13
3499	-69.333	1.18	-68.153	-13
4201	-65.698	1.23	-64.468	-13
4898	-69.210	1.45	-67.760	-13
5598	-65.438	1.56	-63.878	-13
6297	-67.325	1.59	-65.735	-13
6997	-67.841	1.82	-66.021	-13

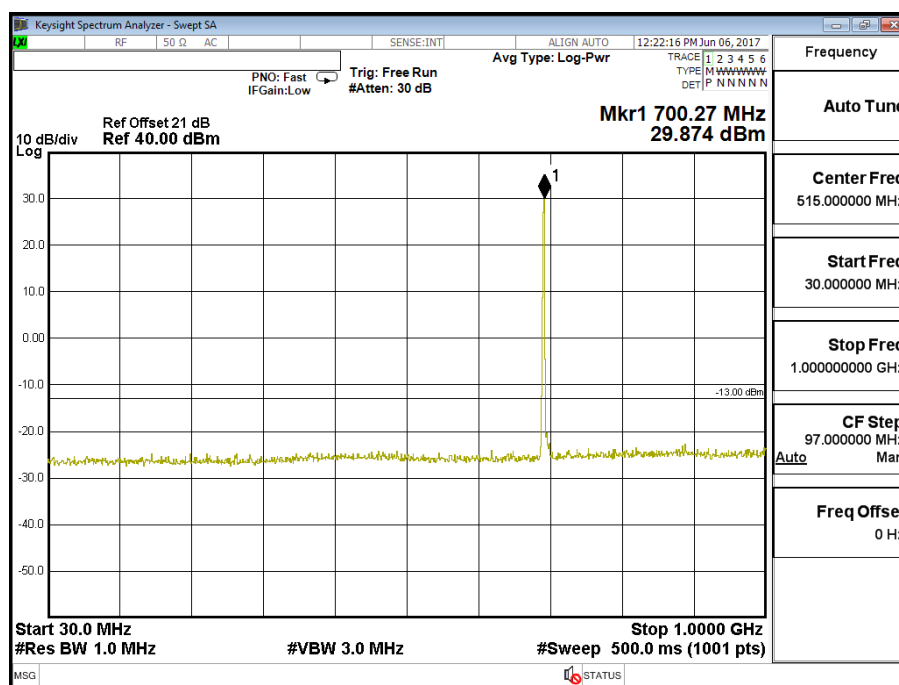


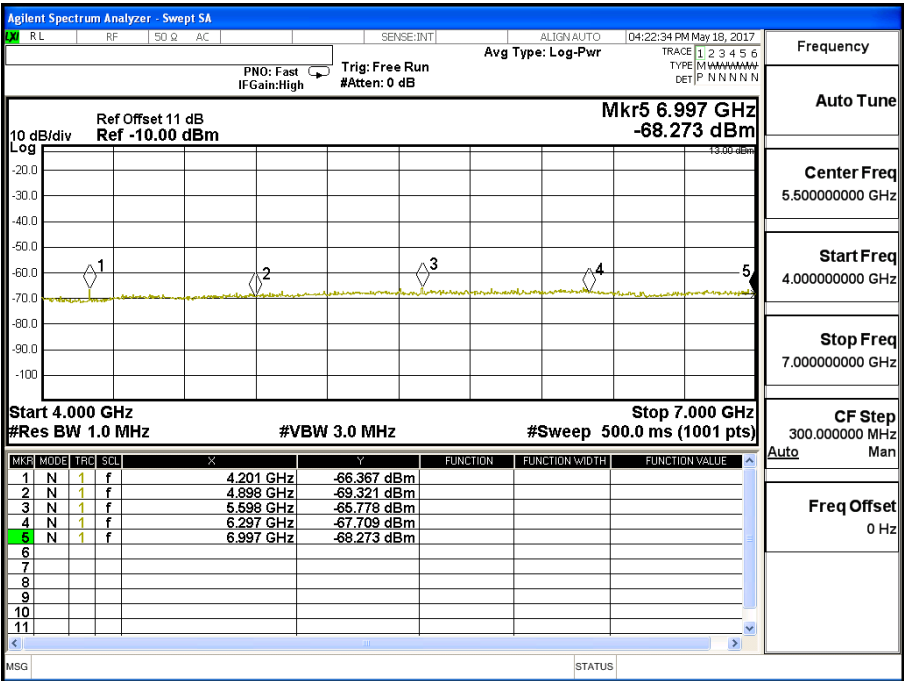
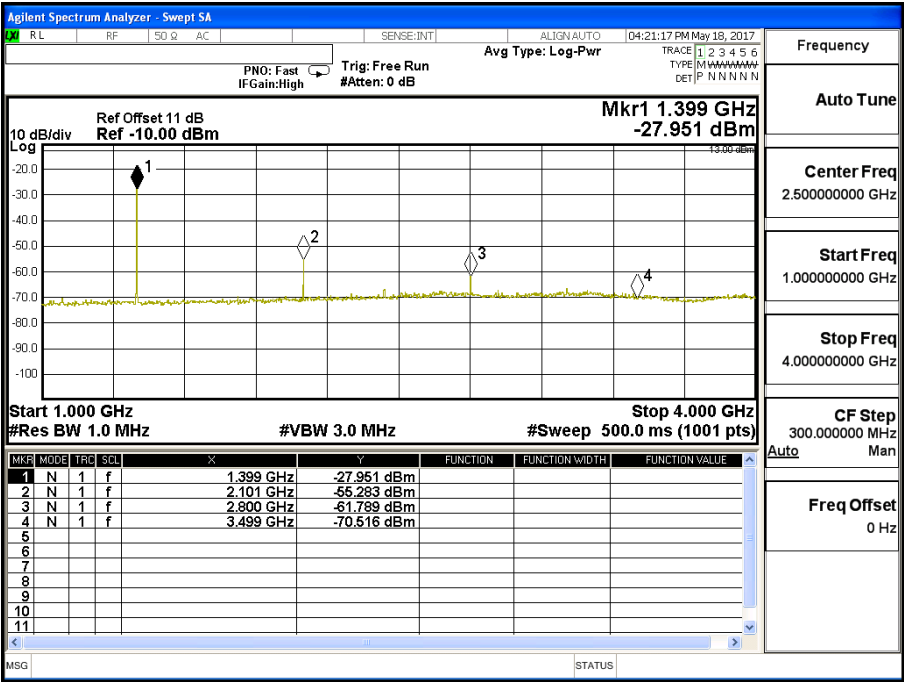


Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 12 (1.4M)	Test Range	30MHz~10GHz

LTE-Band 12 (1.4M) 16QAM(1,5) CH23017

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1399	-27.951	0.58	-27.371	-13
2101	-55.283	0.7	-54.583	-13
2800	-61.789	1.01	-60.779	-13
3499	-70.516	1.18	-69.336	-13
4201	-66.367	1.23	-65.137	-13
4898	-69.321	1.45	-67.871	-13
5598	-65.778	1.56	-64.218	-13
6297	-67.709	1.59	-66.119	-13
6997	-68.273	1.82	-66.453	-13

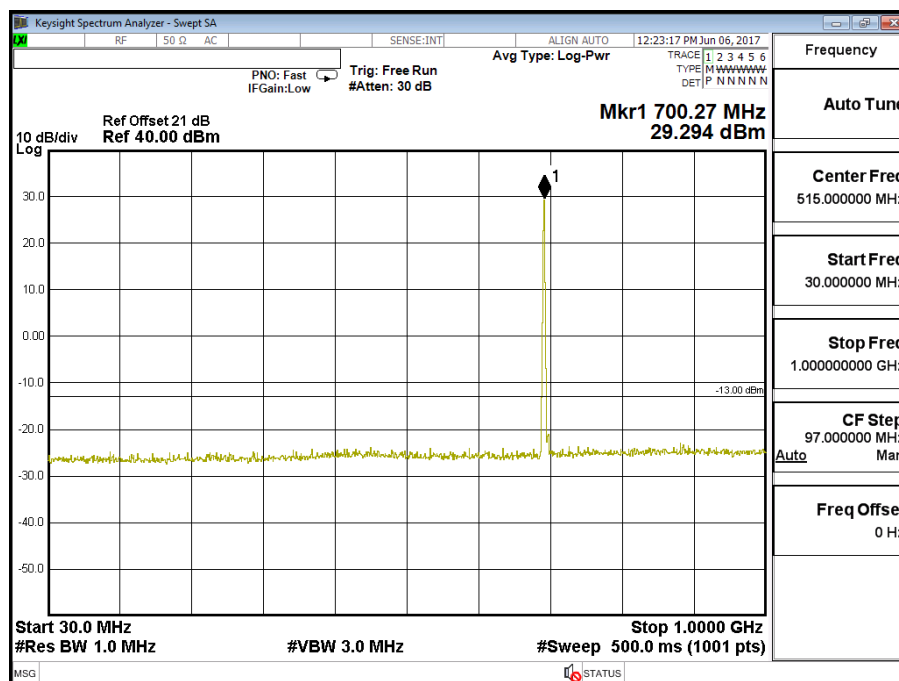


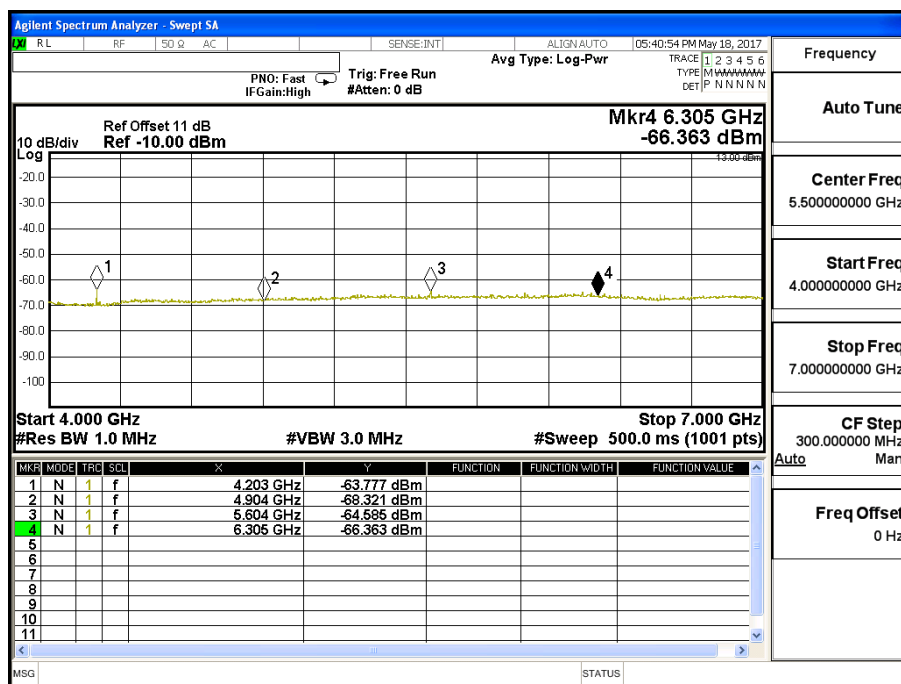
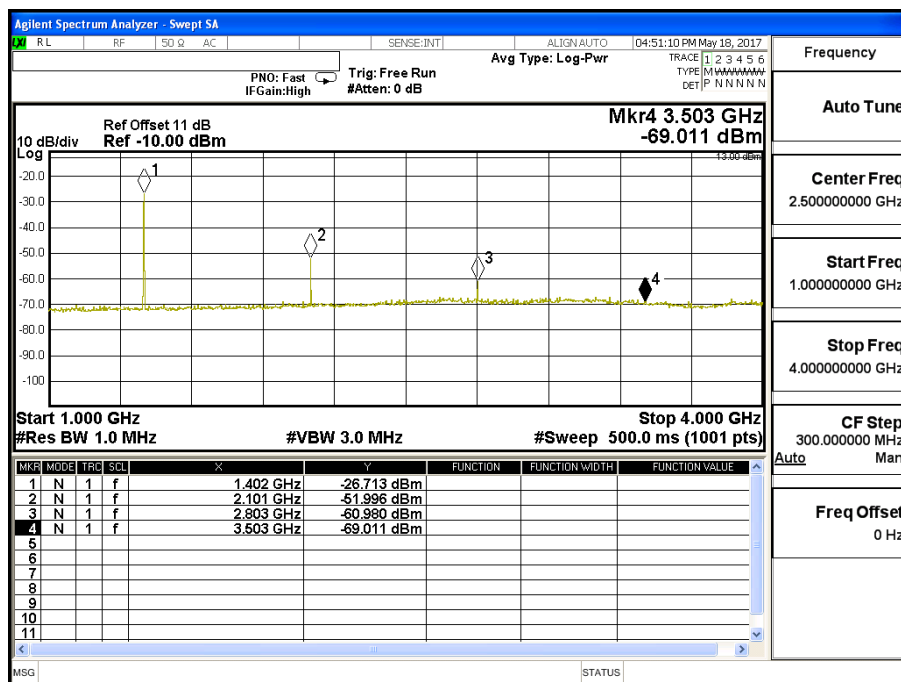


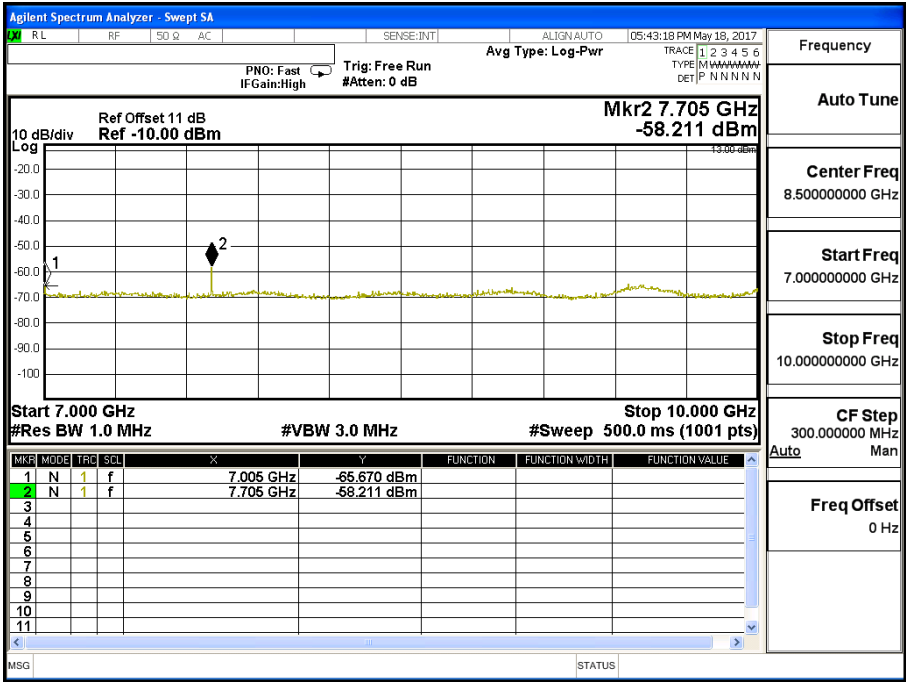
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 12 (3M)	Test Range	30MHz~10GHz

LTE-Band 12 (3M) QPSK(1,7) CH23025

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1402	-26.713	0.58	-26.133	-13
2101	-51.996	0.7	-51.296	-13
2803	-60.980	1.01	-59.970	-13
3503	-69.011	1.18	-67.831	-13
4203	-63.777	1.23	-62.547	-13
4904	-68.321	1.45	-66.871	-13
5604	-64.585	1.56	-63.025	-13
6305	-66.363	1.59	-64.773	-13
7005	-65.670	1.82	-63.850	-13



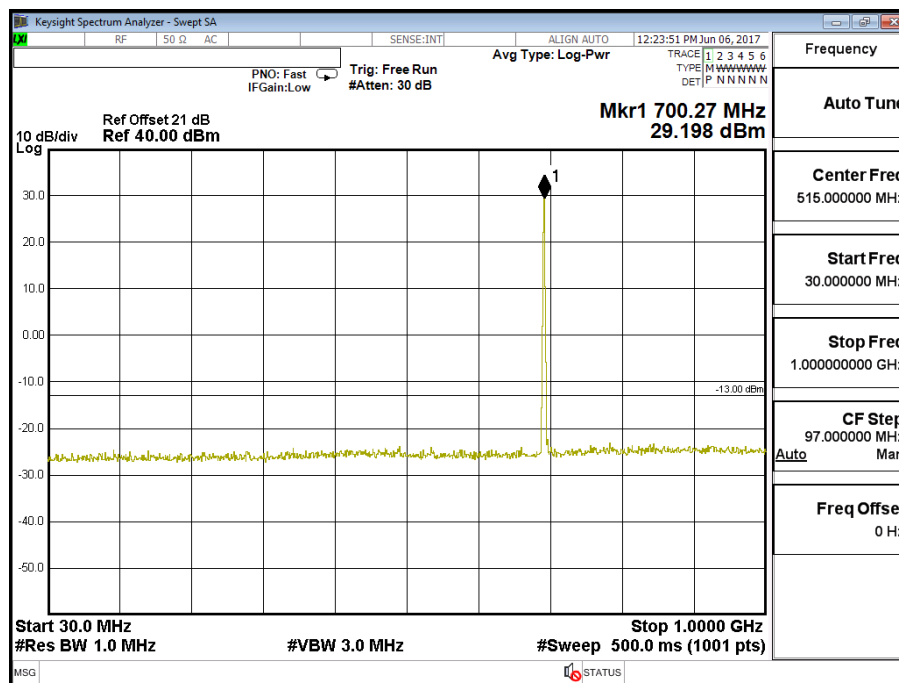


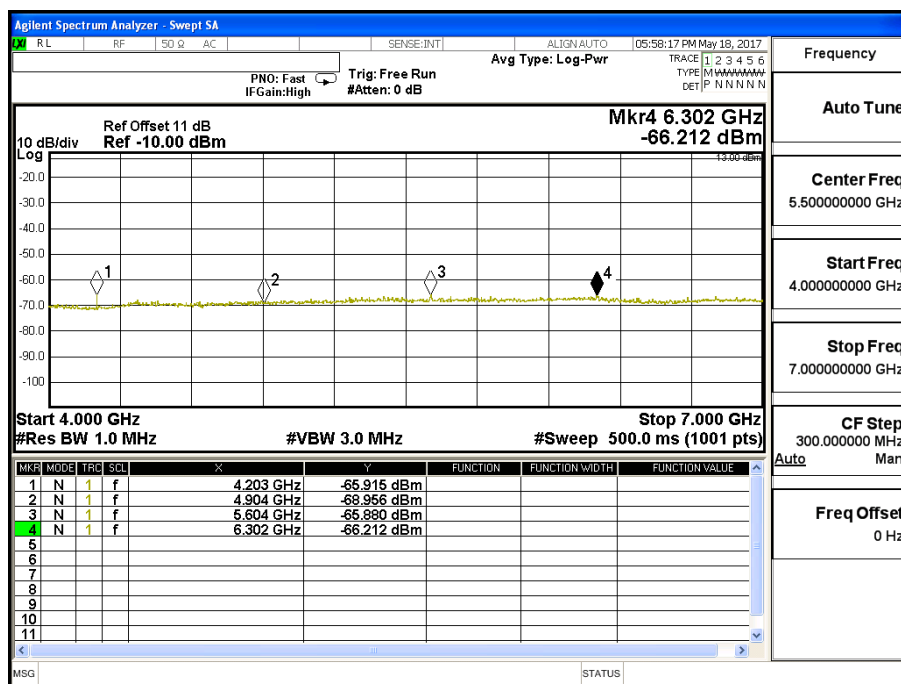
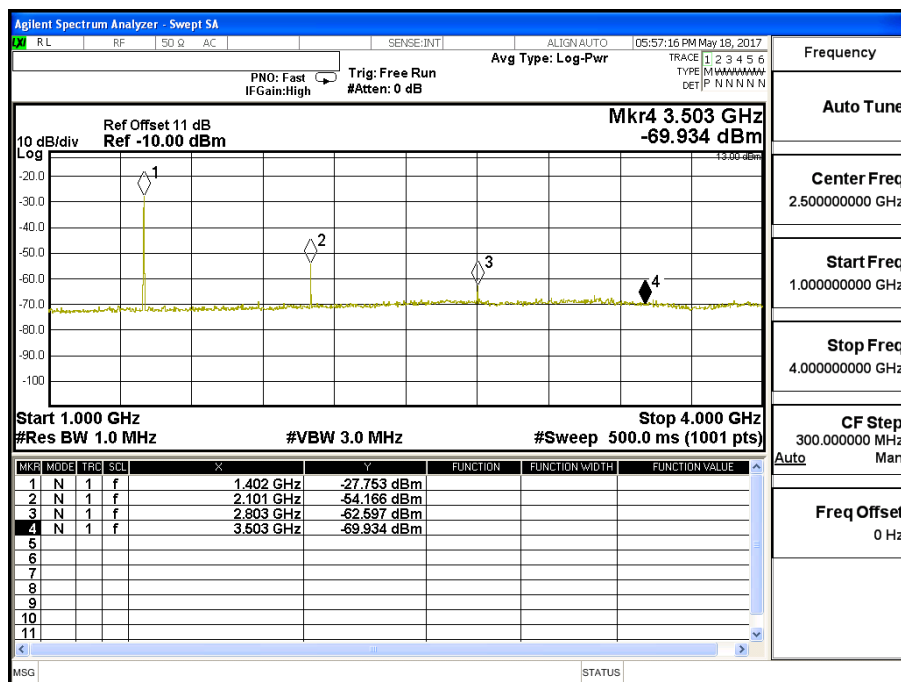


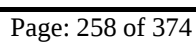
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 12 (3M)	Test Range	30MHz~10GHz

LTE-Band 12 (3M) 16QAM(1,7) CH23025

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1402	-27.753	0.58	-27.173	-13
2101	-54.166	0.7	-53.466	-13
2803	-62.597	1.01	-61.587	-13
3503	-69.934	1.18	-68.754	-13
4203	-65.915	1.23	-64.685	-13
4904	-68.956	1.45	-67.506	-13
5604	-65.880	1.56	-64.320	-13
6302	-66.212	1.59	-64.622	-13
7005	-66.778	1.82	-64.958	-13



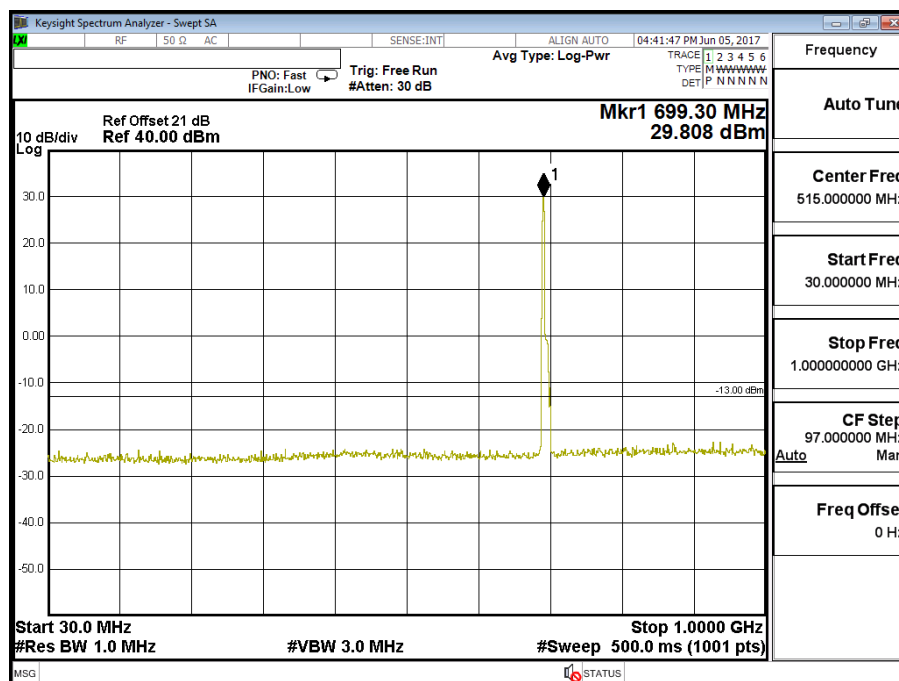


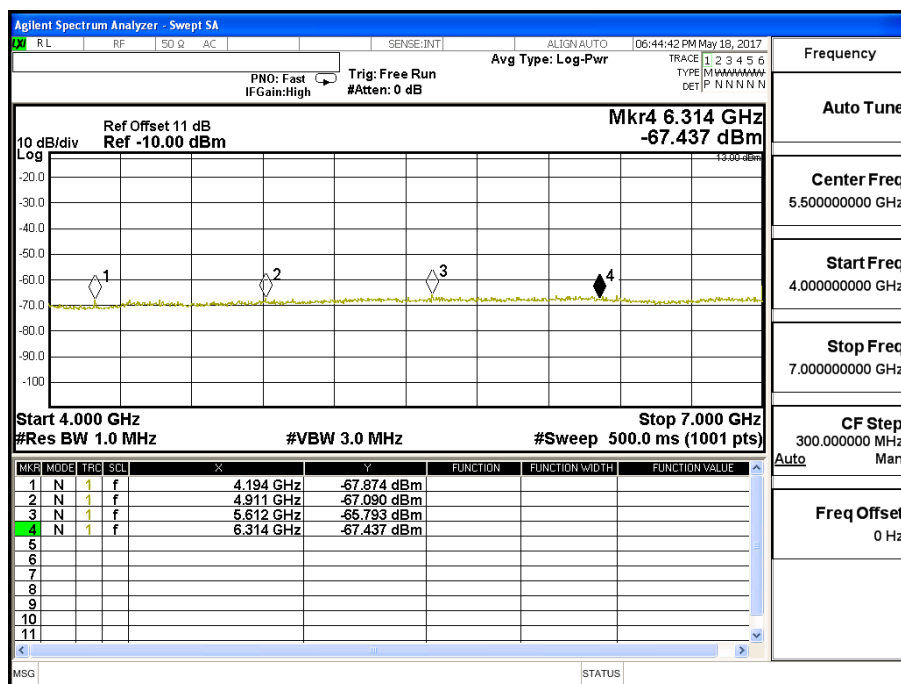
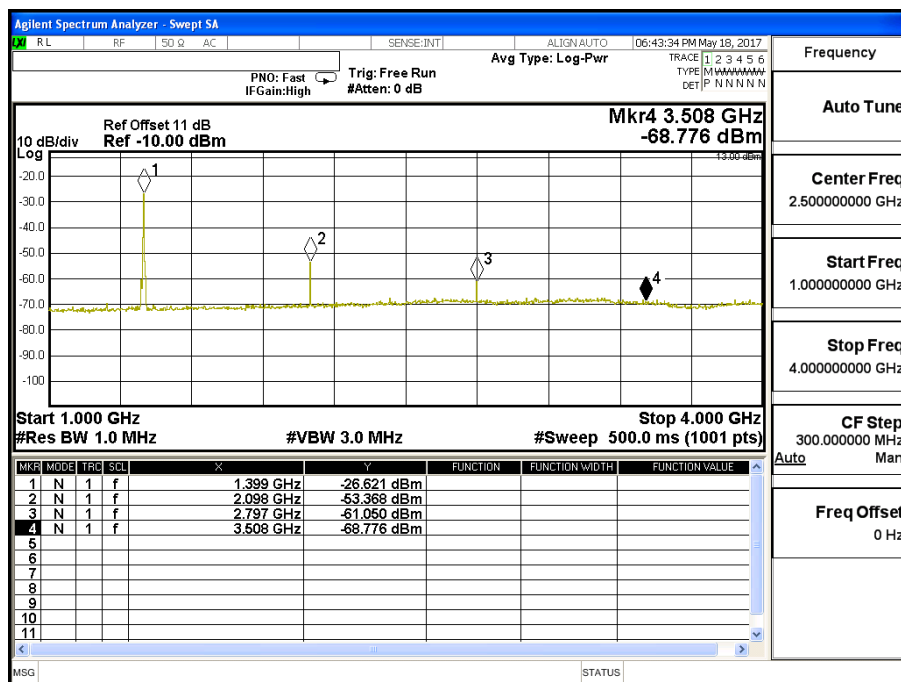


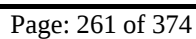
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 12 (5M)	Test Range	30MHz~10GHz

LTE-Band 12 (5M) QPSK(1,0) CH23035

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1399	-26.621	0.58	-26.041	-13
2098	-53.368	0.7	-52.668	-13
2797	-61.050	1.01	-60.040	-13
3508	-68.776	1.18	-67.596	-13
4194	-67.874	1.23	-66.644	-13
4911	-67.090	1.45	-65.640	-13
5612	-65.793	1.56	-64.233	-13
6314	-67.437	1.59	-65.847	-13
7015	-68.472	1.82	-66.652	-13



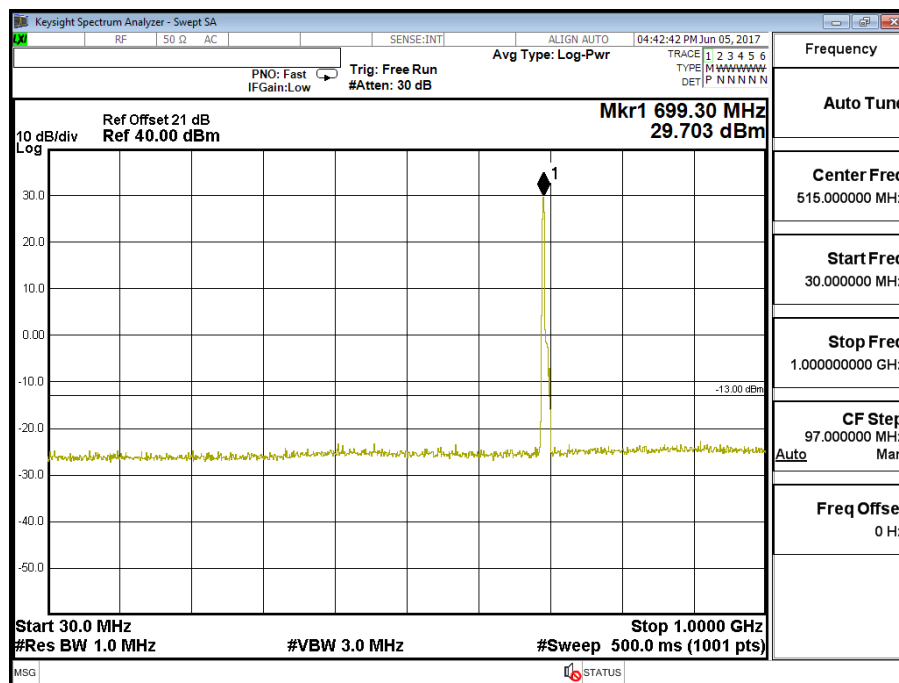


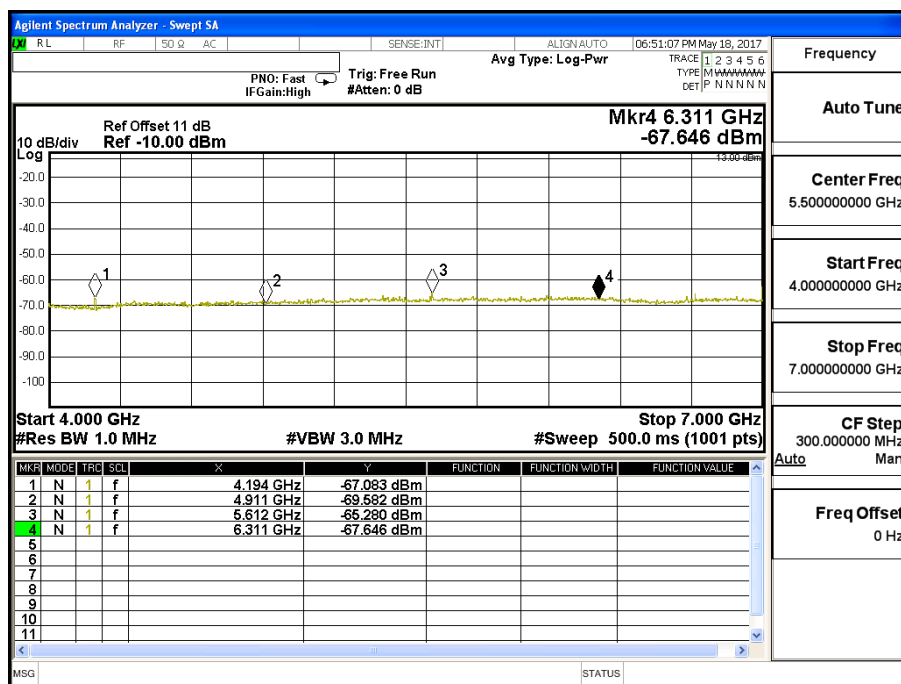
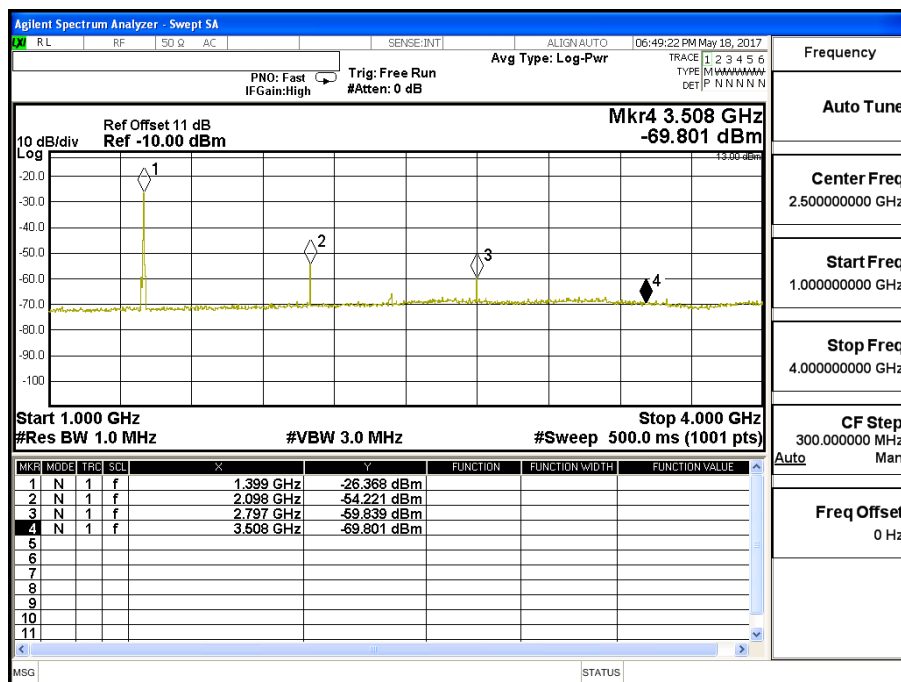


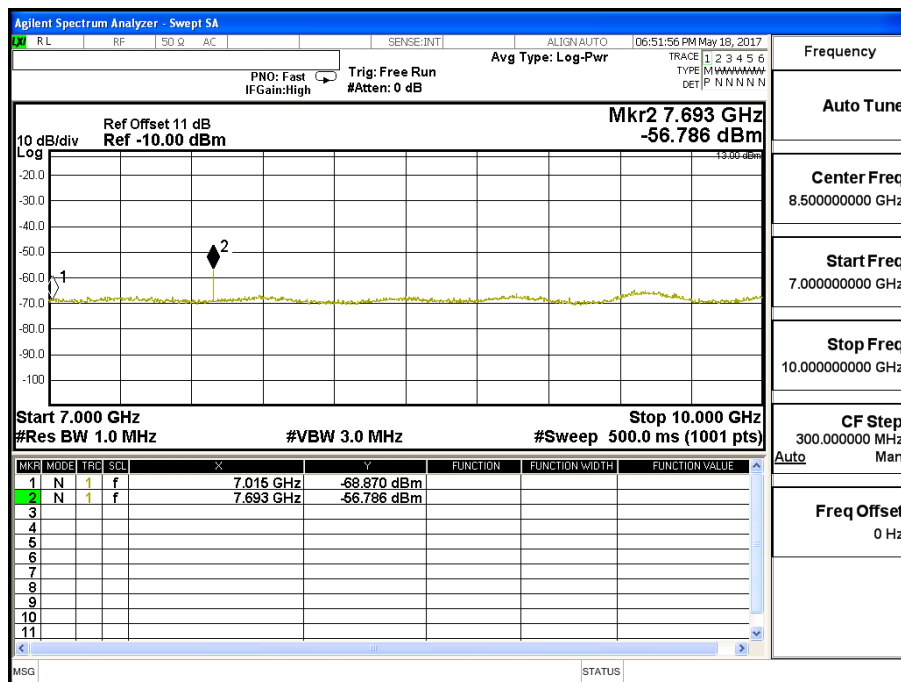
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 12 (5M)	Test Range	30MHz~10GHz

LTE-Band 12 (5M) 16QAM(1,0) CH23035

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1399	-26.368	0.58	-25.788	-13
2098	-54.221	0.7	-53.521	-13
2797	-59.839	1.01	-58.829	-13
3508	-69.801	1.18	-68.621	-13
4194	-67.083	1.23	-65.853	-13
4911	-69.582	1.45	-68.132	-13
5612	-65.280	1.56	-63.720	-13
6311	-67.646	1.59	-66.056	-13
7015	-68.870	1.82	-67.050	-13



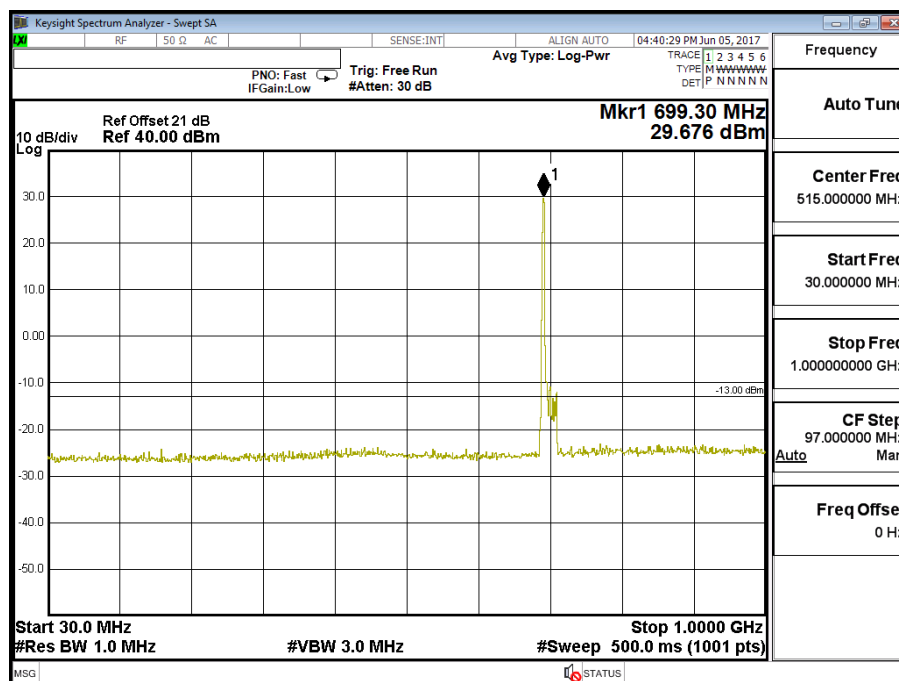


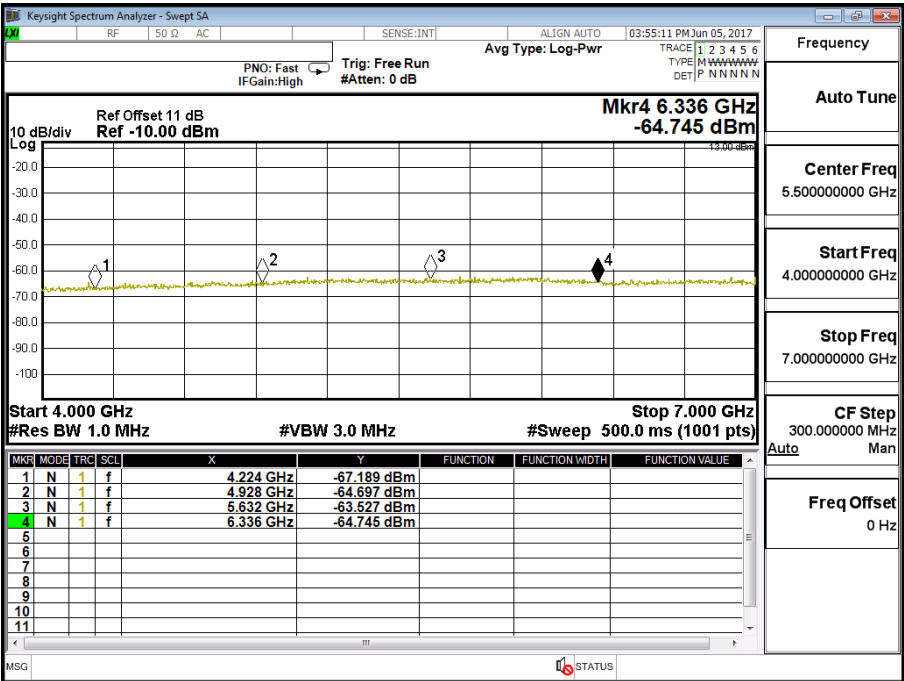
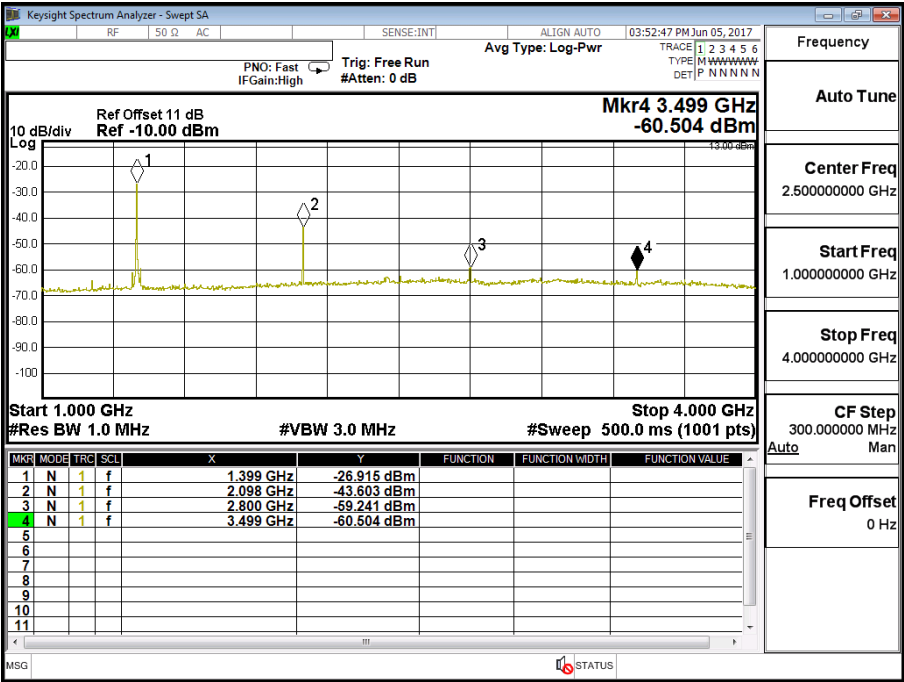


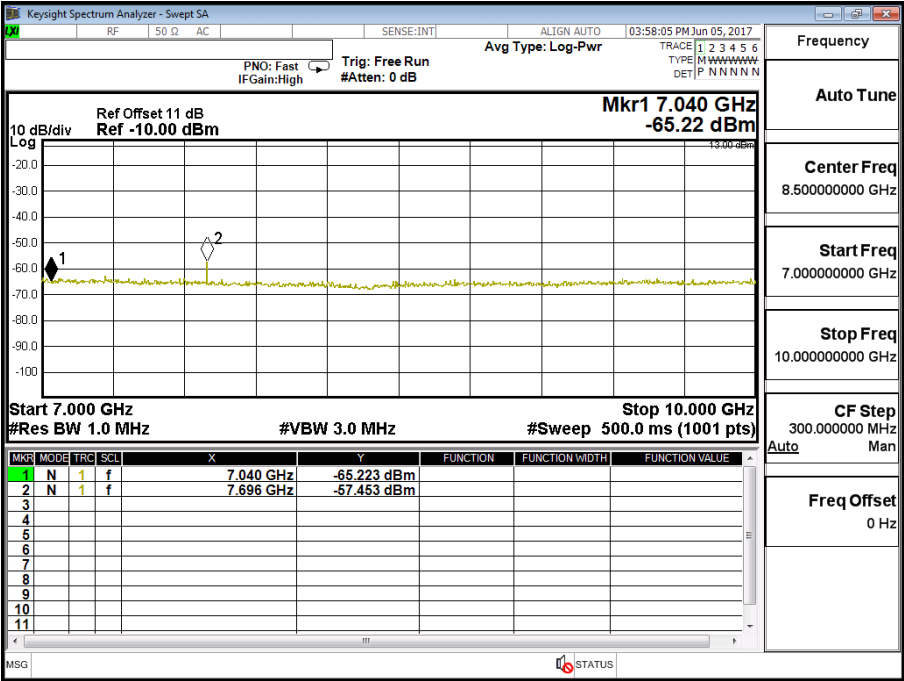
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 12 (10M)	Test Range	30MHz~10GHz

LTE-Band 12 (10M) QPSK(1,0) CH23060

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1399	-26.915	0.58	-26.335	-13
2098	-43.603	0.7	-42.903	-13
2800	-59.241	1.01	-58.231	-13
3499	-60.504	1.18	-59.324	-13
4244	-67.189	1.23	-65.959	-13
4928	-64.697	1.45	-63.247	-13
5632	-63.527	1.56	-61.967	-13
6336	-64.745	1.59	-63.155	-13
7040	-65.223	1.82	-63.403	-13



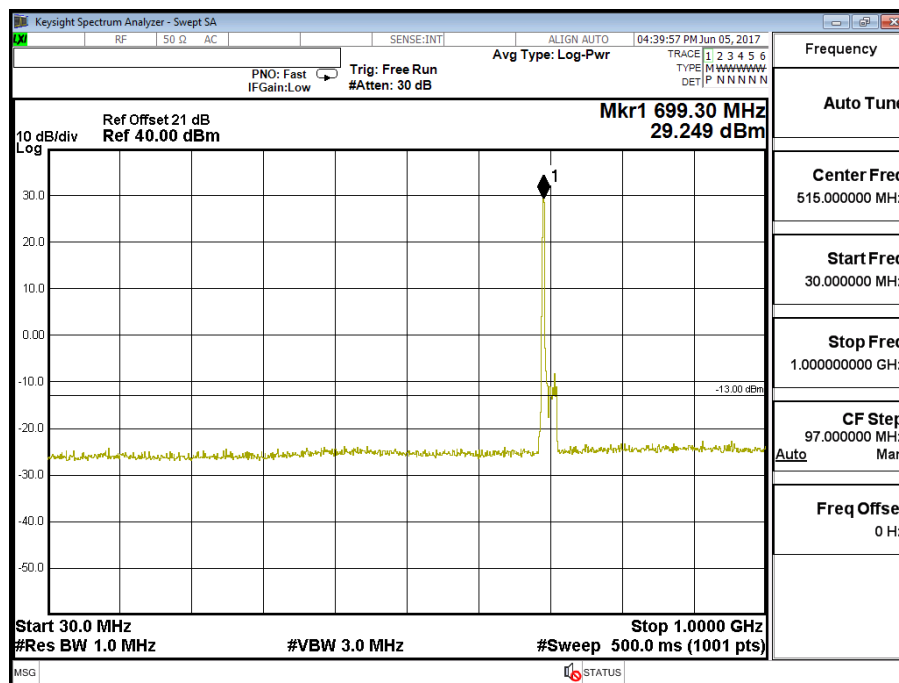


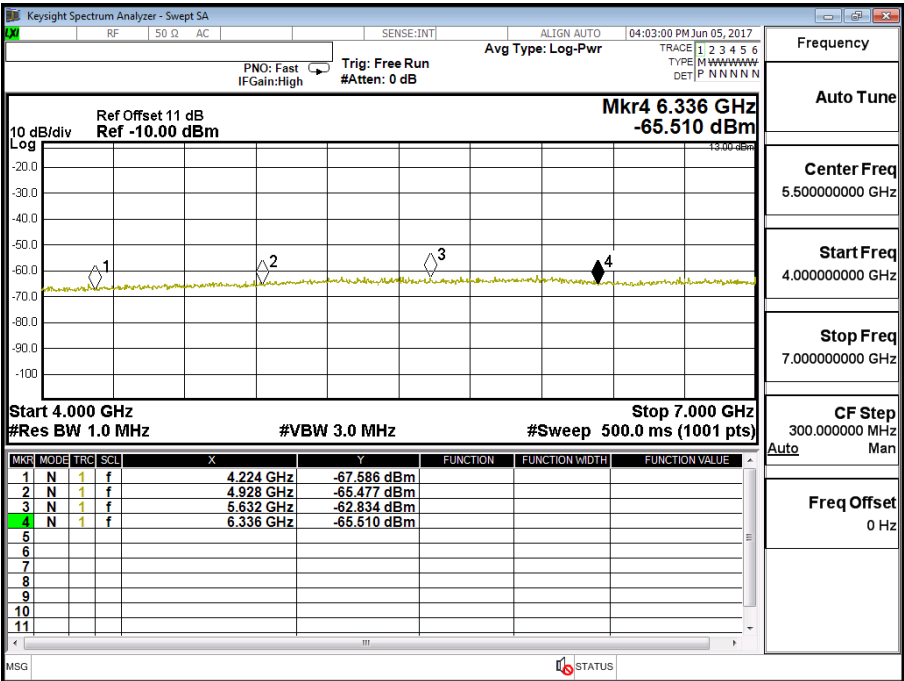
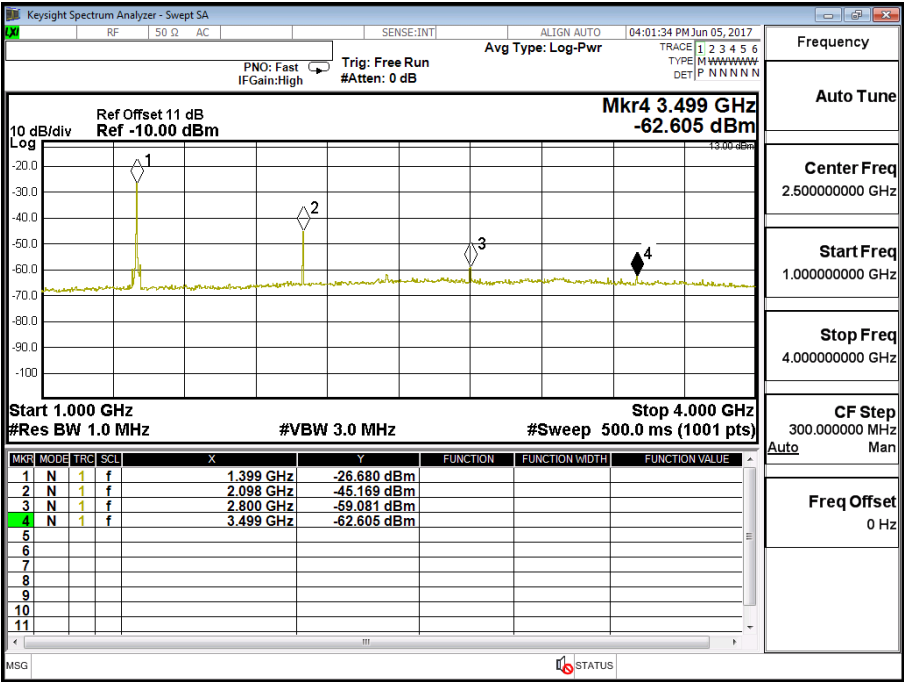


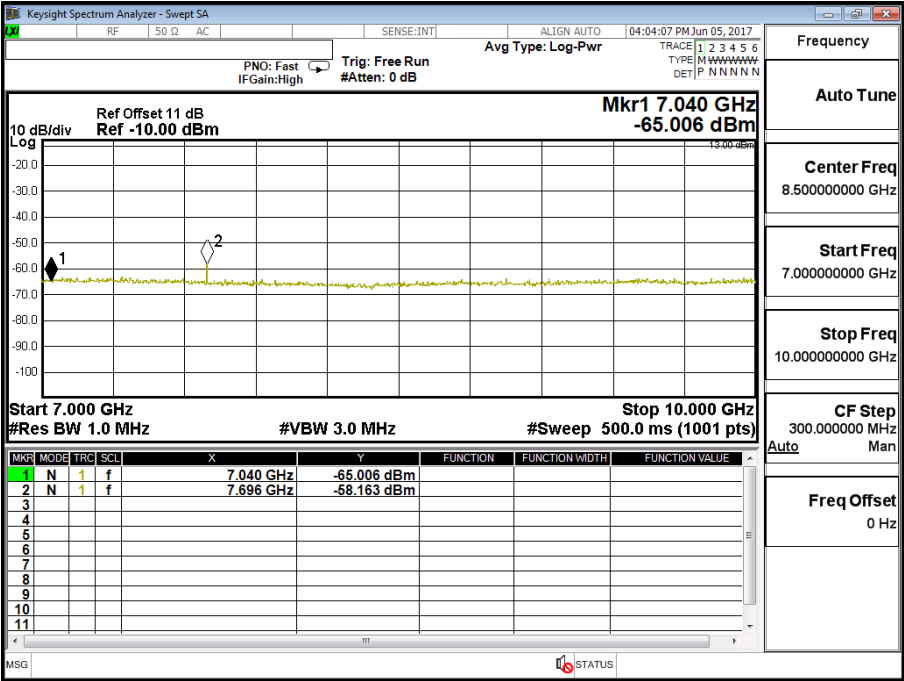
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 12 (10M)	Test Range	30MHz~10GHz

LTE-Band 12 (10M) 16QAM(1,0) CH23060

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1399	-26.680	0.58	-26.100	-13
2098	-45.169	0.7	-44.469	-13
2800	-59.081	1.01	-58.071	-13
3499	-62.605	1.18	-61.425	-13
4244	-67.586	1.23	-66.356	-13
4928	-65.477	1.45	-64.027	-13
5632	-62.834	1.56	-61.274	-13
6336	-65.510	1.59	-63.920	-13
7040	-65.006	1.82	-63.186	-13



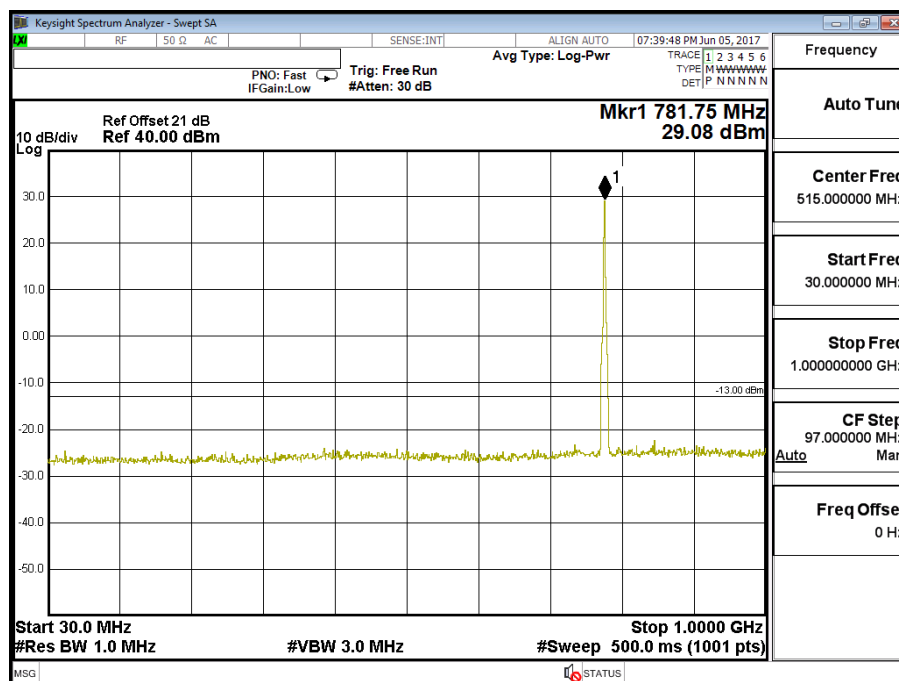


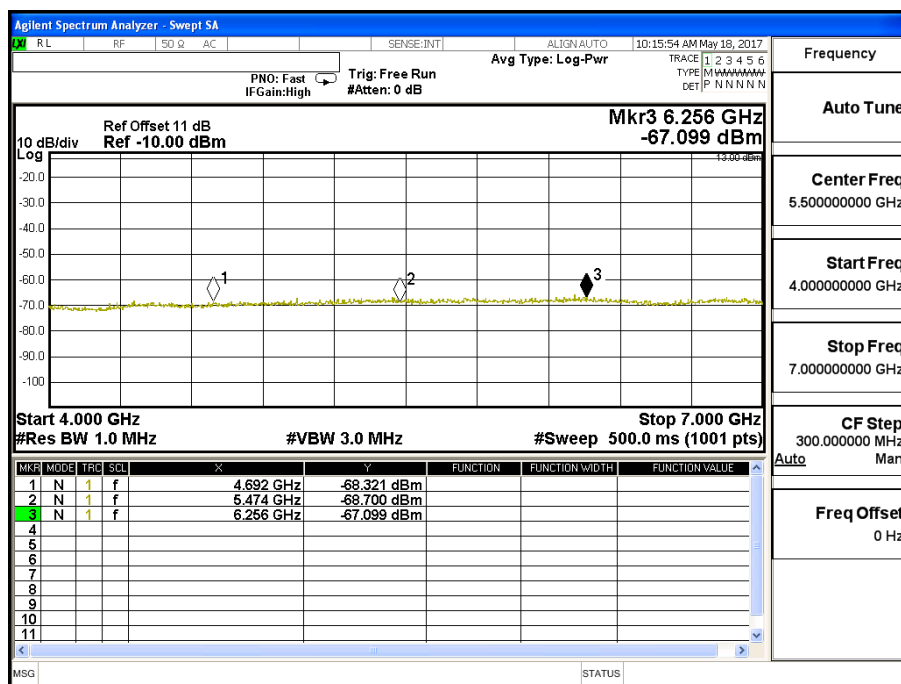
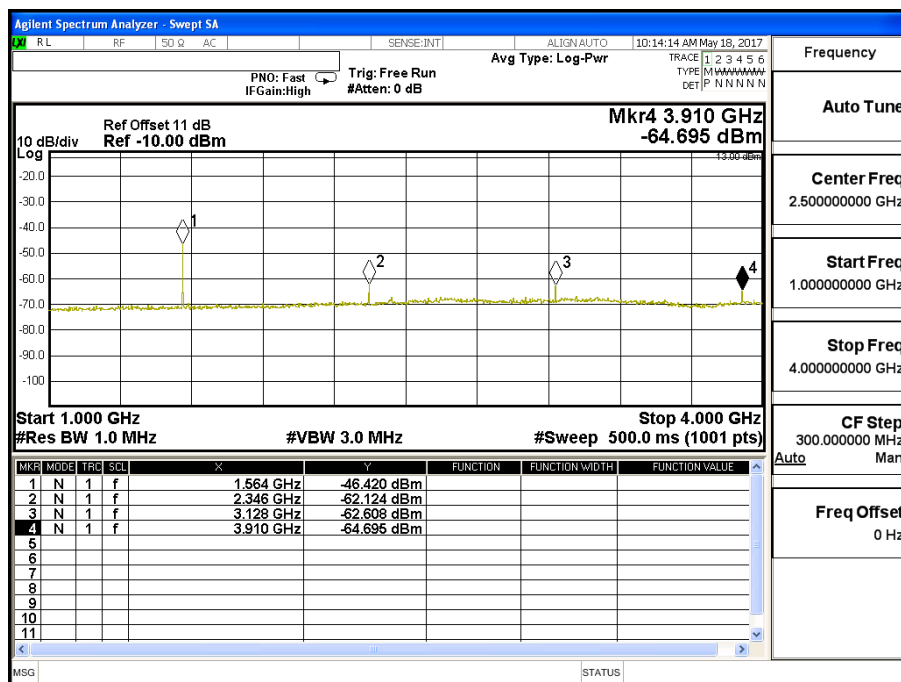


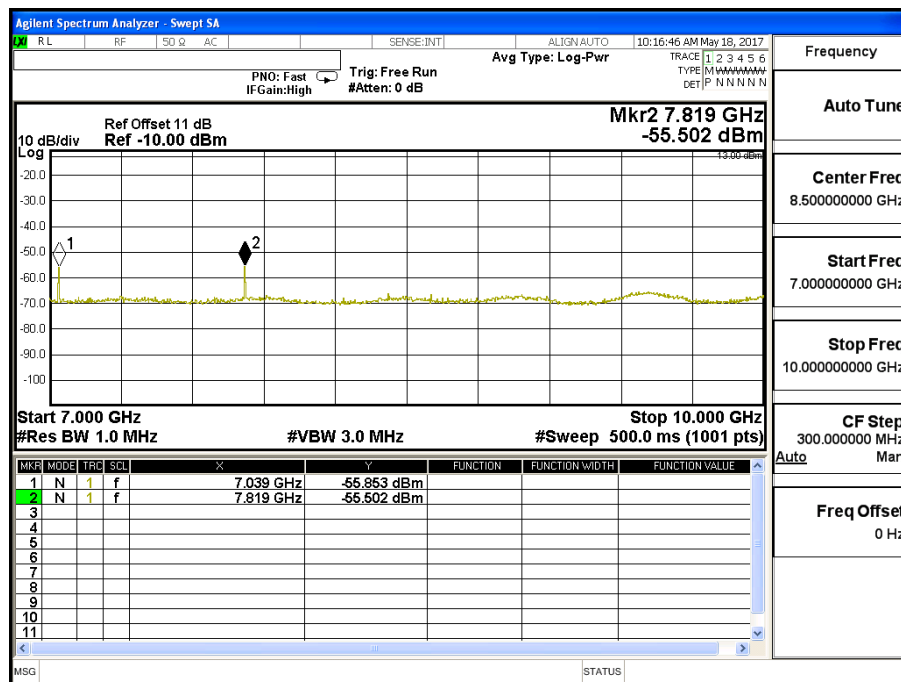
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 13 (5M)	Test Range	30MHz~10GHz

LTE-Band 13 (5M) QPSK(1,12) CH23230

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1564	-46.420	0.58	-45.840	-13
2346	-62.124	0.7	-61.424	-13
3128	-62.608	1.01	-61.598	-13
3910	-64.695	1.18	-63.515	-13
4692	-68.321	1.23	-67.091	-13
5474	-68.700	1.45	-67.250	-13
6256	-67.099	1.56	-65.539	-13
7039	-55.853	1.59	-54.263	-13
7819	-55.502	1.82	-53.682	-13



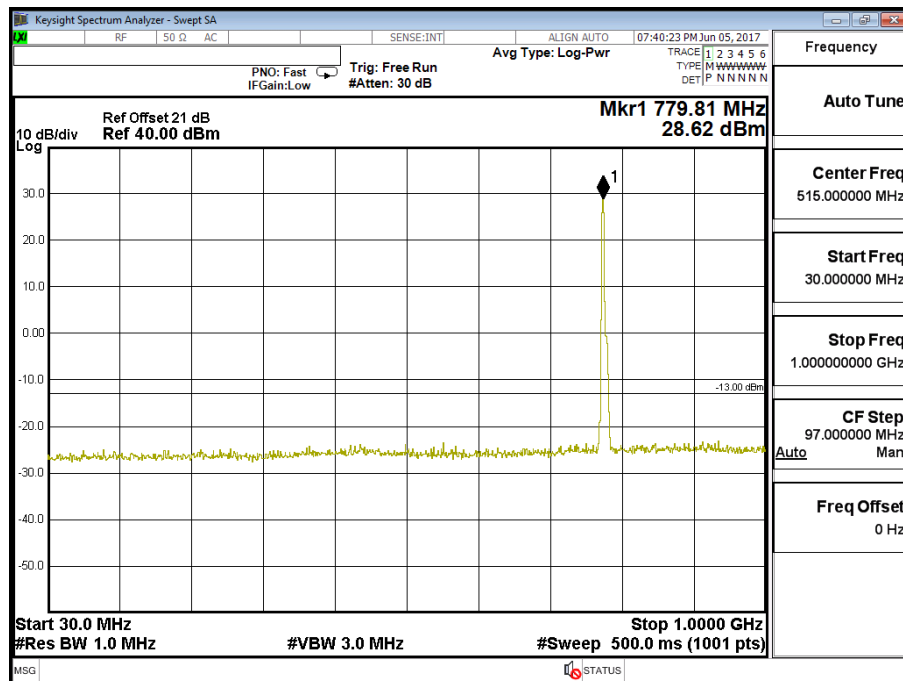


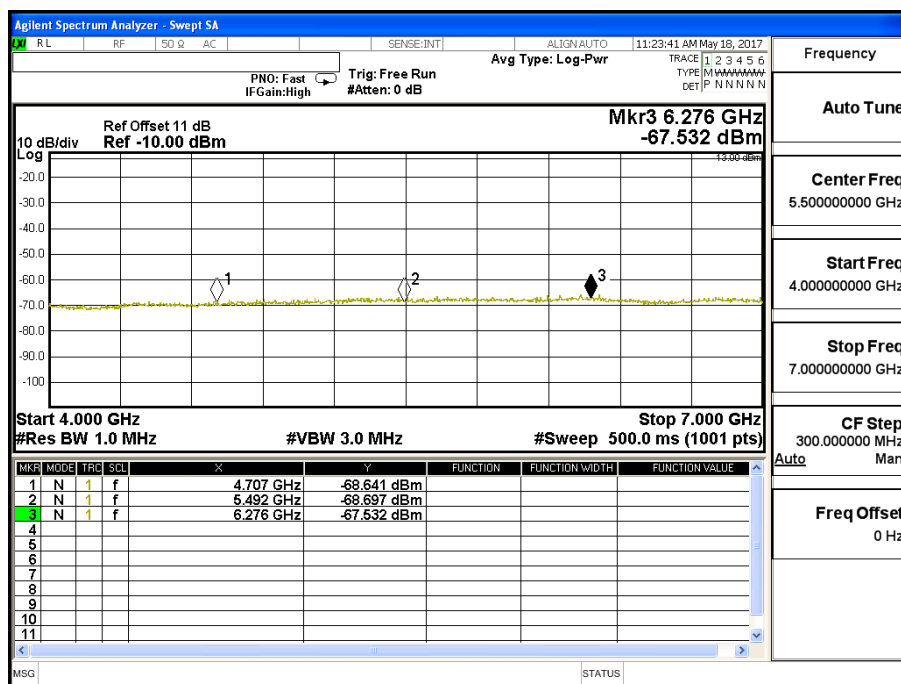
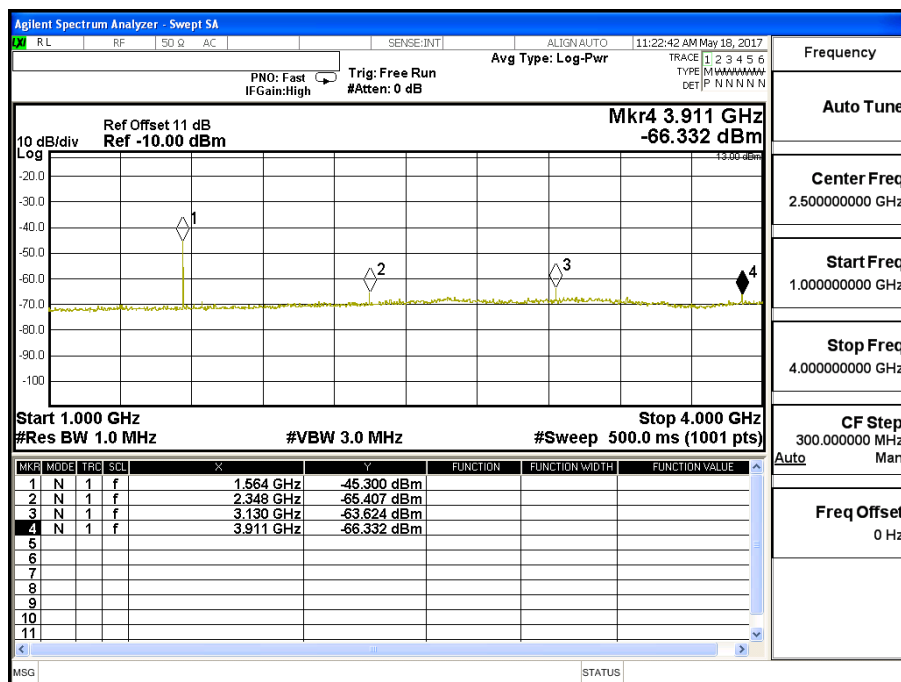


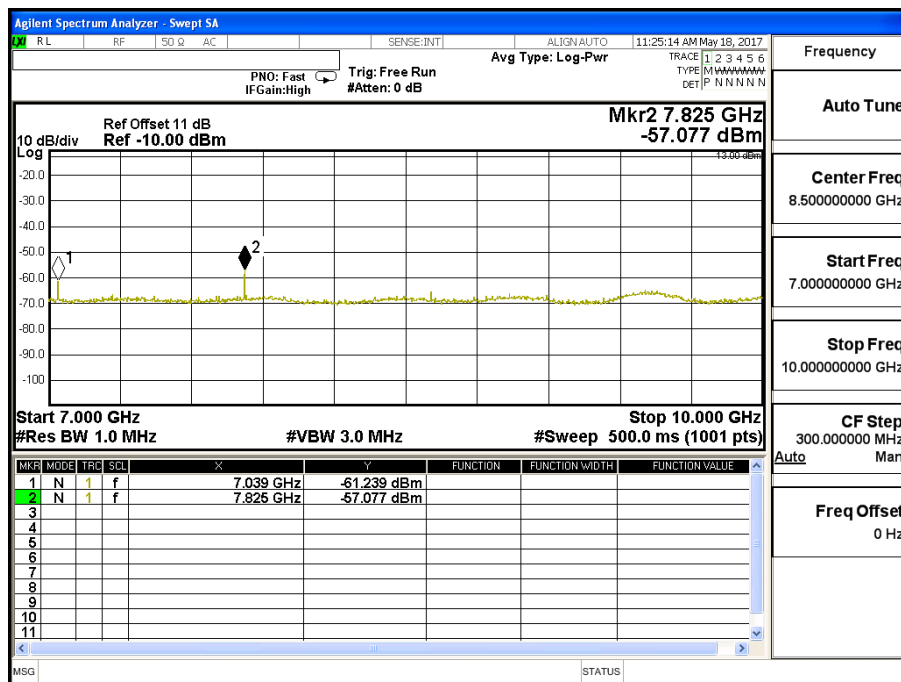
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 13 (5M)	Test Range	30MHz~10GHz

LTE-Band 13 (5M) 16QAM(1,0) CH23255

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1564	-45.300	0.58	-44.720	-13
2348	-65.407	0.7	-64.707	-13
3130	-63.624	1.01	-62.614	-13
3911	-66.332	1.18	-65.152	-13
4707	-68.641	1.23	-67.411	-13
5492	-68.697	1.45	-67.247	-13
6276	-67.532	1.56	-65.972	-13
7039	-61.239	1.59	-59.649	-13
7825	-57.077	1.82	-55.257	-13



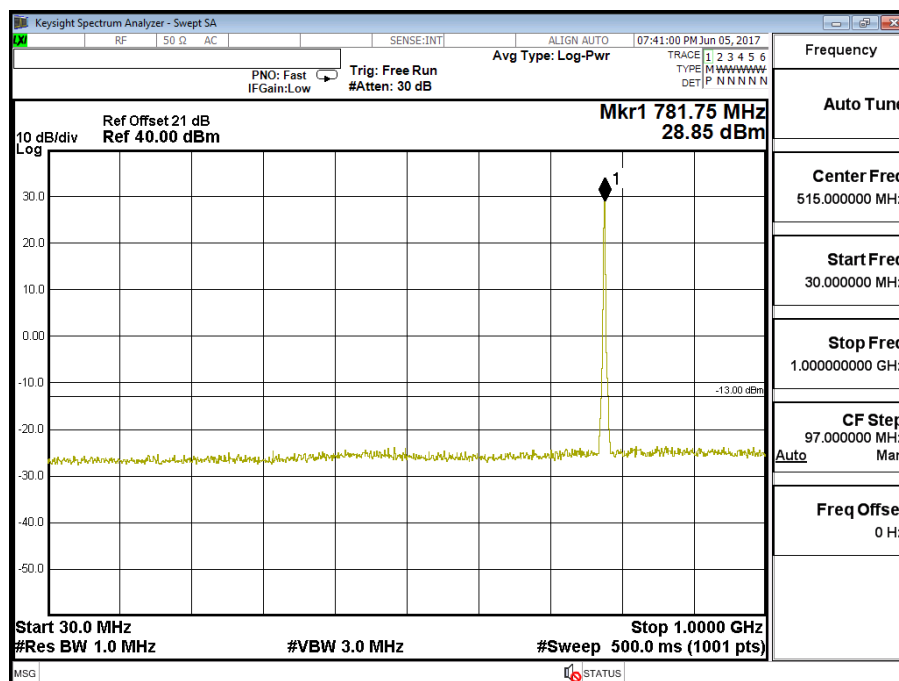


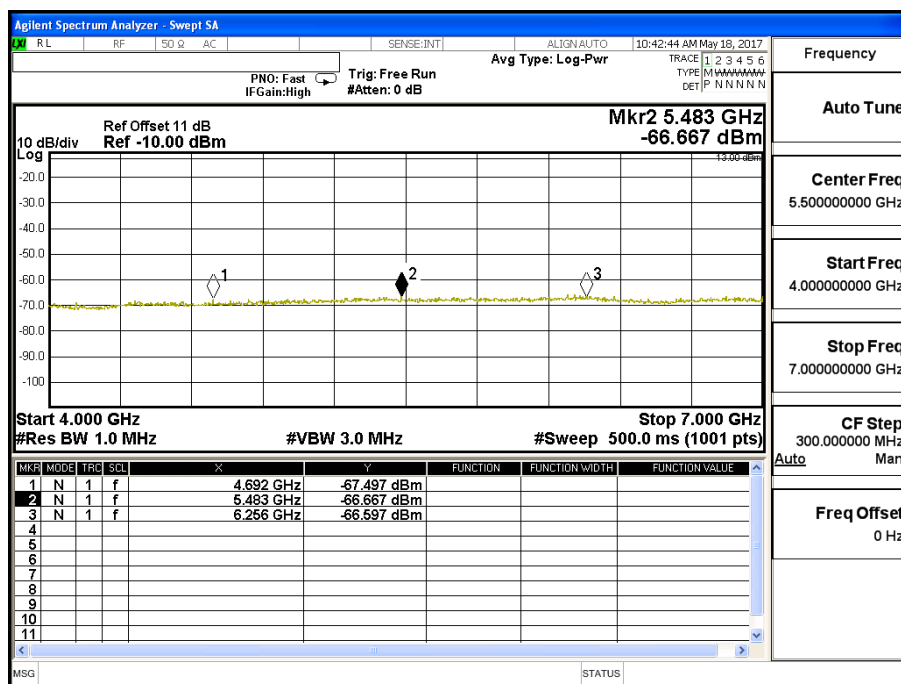
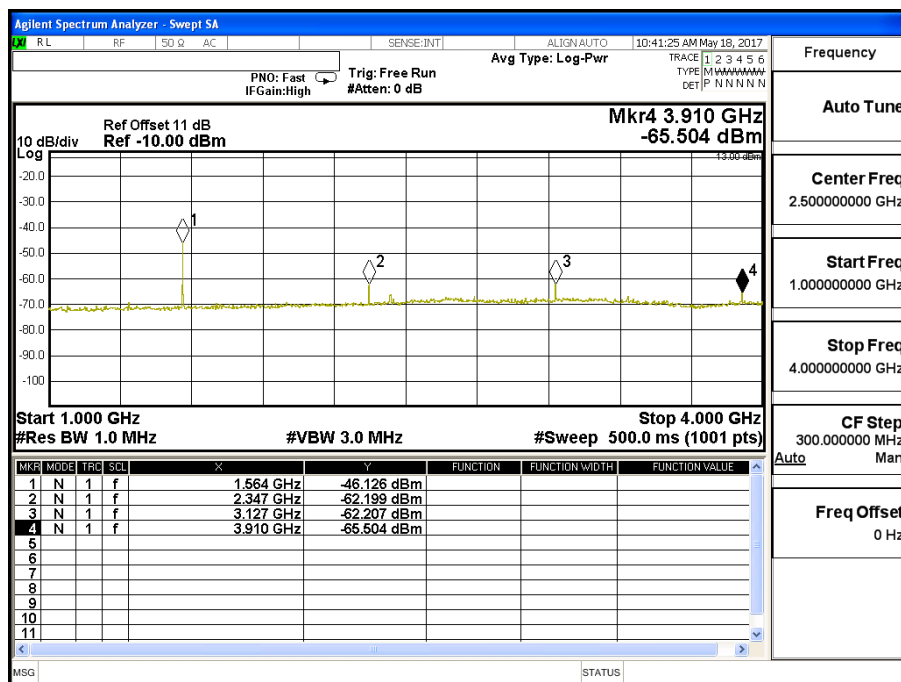


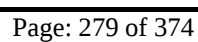
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 13 (10M)	Test Range	30MHz~10GHz

LTE-Band 13 (10M) QPSK(1,24) CH23230

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1564	-46.126	0.58	-45.546	-13
2347	-62.199	0.7	-61.499	-13
3127	-62.207	1.01	-61.197	-13
3910	-65.504	1.18	-64.324	-13
4692	-67.497	1.23	-66.267	-13
5483	-66.667	1.45	-65.217	-13
6256	-66.597	1.56	-65.037	-13
7036	-56.194	1.59	-54.604	-13
7820	-56.590	1.82	-54.770	-13



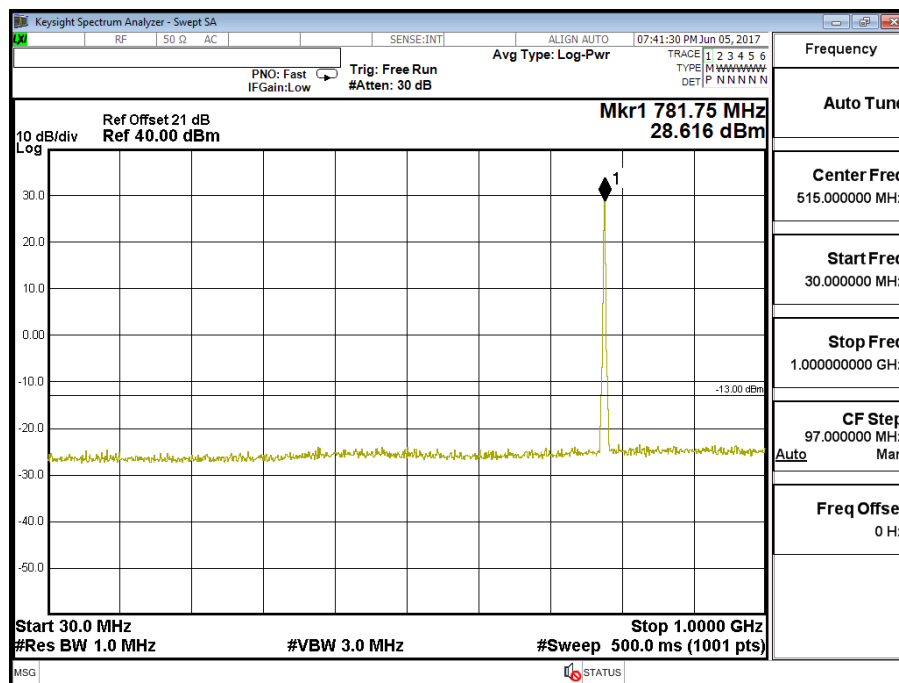


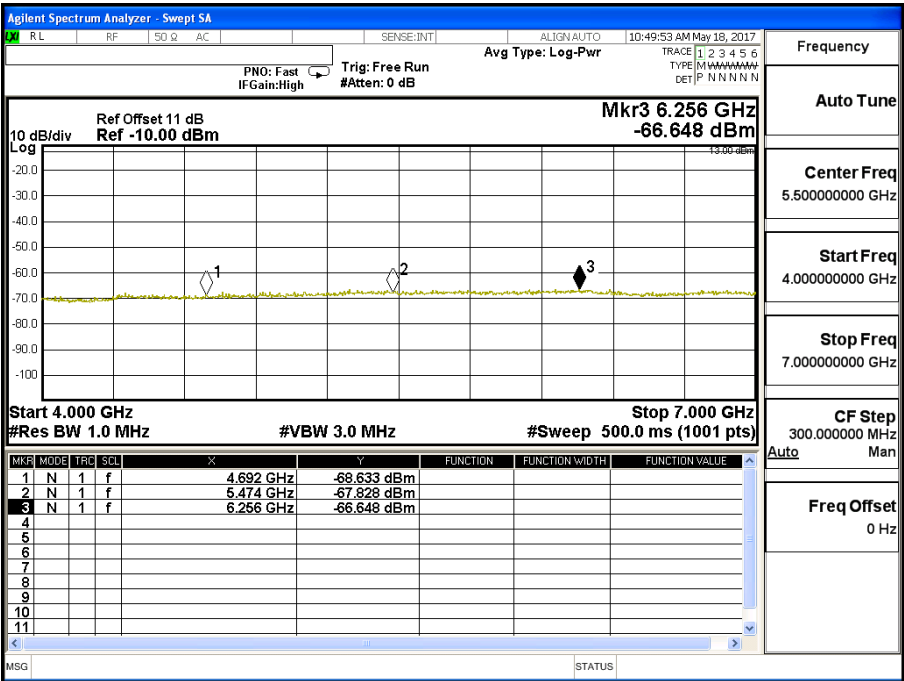
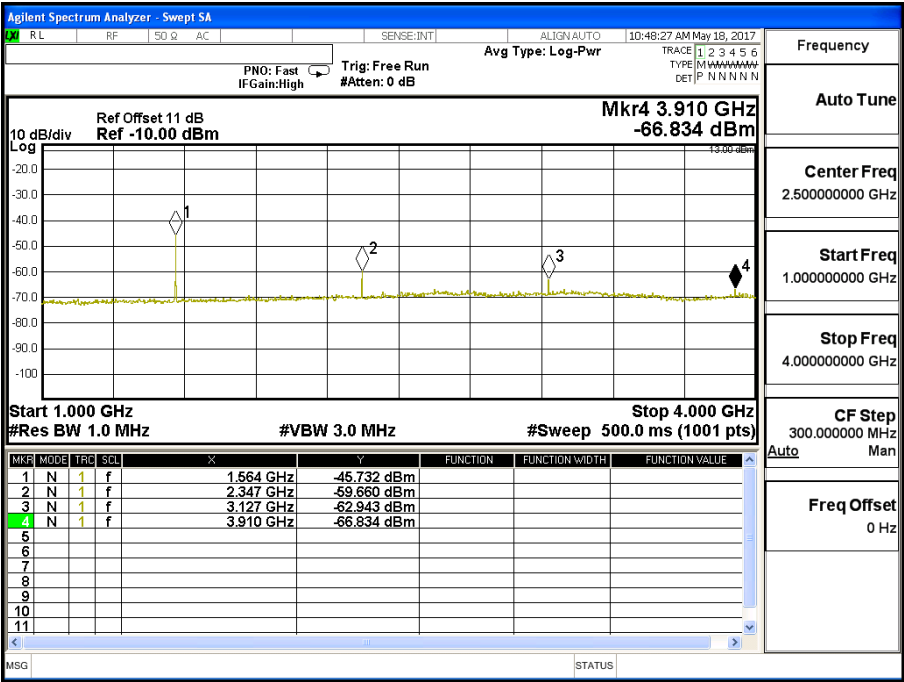


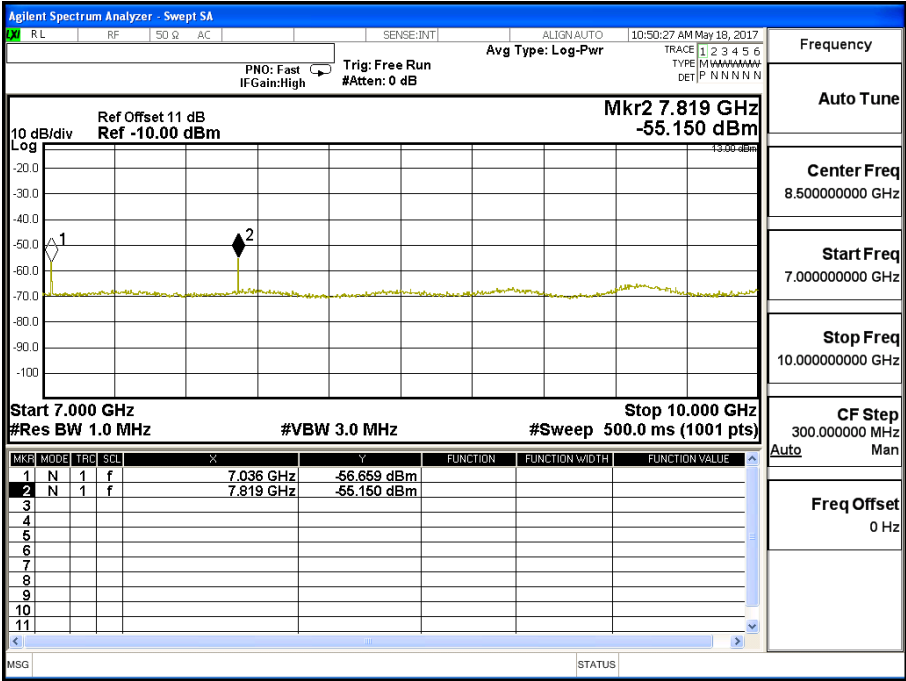
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 13 (10M)	Test Range	30MHz~10GHz

LTE-Band 13 (10M) 16QAM(1,24) CH23230

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1564	-45.732	0.58	-45.152	-13
2347	-59.660	0.7	-58.960	-13
3127	-62.943	1.01	-61.933	-13
3910	-66.834	1.18	-65.654	-13
4692	-68.633	1.23	-67.403	-13
5474	-67.828	1.45	-66.378	-13
6256	-66.648	1.56	-65.088	-13
7036	-56.659	1.59	-55.069	-13
7819	-55.150	1.82	-53.330	-13







Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 2 (1.4M) QPSK(1,0)	Test Range	9kHz ~20GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 2 (1.4M) QPSK(1,0)

3819	-44.686	-45.074	2.530	12.600	-35.004	-13
5728	-59.782	-57.665	3.050	13.100	-47.615	-13
7637	-64.040	-50.261	3.650	11.500	-42.411	-13
9547	-63.014	-48.631	3.850	12.000	-40.481	-13
11456	-62.613	-43.481	4.580	12.000	-36.061	-13

Vertical Emissions Band 2 (1.4M) QPSK(1,0)

3819	-59.086	-56.944	2.530	12.600	-46.874	-13
5728	-63.649	-61.486	3.050	13.100	-51.436	-13
7637	-61.503	-47.125	3.650	11.500	-39.275	-13
9547	-63.286	-48.291	3.850	12.000	-40.141	-13
11456	-63.506	-44.546	4.580	12.000	-37.126	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 12 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 2 (3M) QPSK(1,0)	Test Range	9kHz ~20GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 2 (3M) QPSK(1,0)

3703	-50.081	-50.693	2.530	12.600	-40.623	-13
5555	-61.912	-58.528	3.050	13.100	-48.478	-13
7406	-63.201	-48.503	3.650	11.500	-40.653	-13
9258	-61.092	-46.096	3.850	12.000	-37.946	-13
11109	-64.673	-47.183	4.580	12.000	-39.763	-13

Vertical Emissions Band 2 (3M) QPSK(1,0)

3703	-58.902	-57.267	2.530	12.600	-47.197	-13
5555	-63.212	-59.226	3.050	13.100	-49.176	-13
7406	-61.057	-45.977	3.650	11.500	-38.127	-13
9258	-62.155	-46.477	3.850	12.000	-38.327	-13
11109	-64.333	-46.569	4.580	12.000	-39.149	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 12 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 2 (5M) QPSK(1,0)	Test Range	9kHz ~20GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 2 (5M) QPSK(1,0)

3705	-49.596	-50.207	2.530	12.600	-40.137	-13
5558	-62.432	-59.048	3.050	13.100	-48.998	-13
7410	-63.203	-48.605	3.650	11.500	-40.755	-13
9263	-62.589	-47.632	3.850	12.000	-39.482	-13
11115	-63.989	-46.498	4.580	12.000	-39.078	-13

Vertical Emissions Band 2 (5M) QPSK(1,0)

3705	-59.771	-58.191	2.530	12.600	-48.121	-13
5558	-62.482	-58.674	3.050	13.100	-48.624	-13
7410	-59.860	-44.780	3.650	11.500	-36.930	-13
9263	-62.222	-46.544	3.850	12.000	-38.394	-13
11115	-64.234	-46.668	4.580	12.000	-39.248	-13

Note:

1. Receiver setting (Peak Detector) : RBW:3MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 12 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 2 (10M) QPSK(1,0)	Test Range	9KHz ~20GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 2 (10M) QPSK(1,0)

3710	-48.045	-48.656	2.530	12.600	-38.586	-13
5565	-61.519	-58.135	3.050	13.100	-48.085	-13
7420	-62.774	-48.092	3.650	11.500	-40.242	-13
9275	-61.472	-46.323	3.850	12.000	-38.173	-13
11130	-64.866	-47.493	4.580	12.000	-40.073	-13

Vertical Emissions Band 2 (10M) QPSK(1,0)

3710	-58.981	-57.346	2.530	12.600	-47.276	-13
5565	-63.302	-59.376	3.050	13.100	-49.326	-13
7420	-59.830	-44.750	3.650	11.500	-36.900	-13
9275	-62.249	-46.829	3.850	12.000	-38.679	-13
11130	-64.034	-46.283	4.580	12.000	-38.863	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. ERP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 12 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 2 (15M) QPSK(1,0)	Test Range	9KHz ~20GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 2 (15M) QPSK(1,0)

3715	-48.140	-48.751	2.530	12.600	-38.681	-13
5573	-57.991	-54.607	3.050	13.100	-44.557	-13
7430	-62.418	-47.736	3.650	11.500	-39.886	-13
9288	-62.210	-47.099	3.850	12.000	-38.949	-13
11145	-64.702	-47.566	4.580	12.000	-40.146	-13

Vertical Emissions Band 2 (15M) QPSK(1,0)

3715	-58.266	-56.631	2.530	12.600	-46.561	-13
5573	-62.886	-58.724	3.050	13.100	-48.674	-13
7430	-59.760	-44.680	3.650	11.500	-36.830	-13
9288	-62.451	-46.748	3.850	12.000	-38.598	-13
11145	-64.755	-47.393	4.580	12.000	-39.973	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 12 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 2 (20M) QPSK(1,0)	Test Range	9KHz ~20GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 2 (20M) QPSK(1,0)

3800	-44.400	-44.671	2.530	12.600	-34.601	-13
5700	-58.128	-55.678	3.050	13.100	-45.628	-13
7600	-62.187	-47.907	3.650	11.500	-40.057	-13
9500	-62.588	-47.973	3.850	12.000	-39.823	-13
11400	-64.360	-46.718	4.580	12.000	-39.298	-13

Vertical Emissions Band 2 (20M) QPSK(1,0)

3784	-55.577	-53.446	2.530	12.600	-43.376	-13
5700	-63.317	-60.945	3.050	13.100	-50.895	-13
7600	-61.243	-46.417	3.650	11.500	-38.567	-13
9500	-62.455	-46.975	3.850	12.000	-38.825	-13
11400	-64.190	-46.642	4.580	12.000	-39.222	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 12 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 4 (1.4M) QPSK(3,0)	Test Range	9kHz ~20GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 4 (1.4M) QPSK(3,0)

3465	-48.897	-49.691	2.530	12.600	-39.621	-13
5198	-63.658	-59.602	3.050	13.100	-49.552	-13
6930	-59.337	-47.478	3.650	11.500	-39.628	-13
8663	-62.715	-47.196	3.850	12.000	-39.046	-13
10395	-60.521	-43.862	4.580	12.000	-36.442	-13
12128	-63.868	-46.738	4.800	13.300	-38.238	-13

Vertical Emissions Band 4 (1.4M) QPSK(3,0)

3465	-59.734	-59.635	2.530	12.600	-49.565	-13
5198	-63.794	-59.457	3.050	13.100	-49.407	-13
6930	-57.476	-45.113	3.650	11.500	-37.263	-13
8663	-62.540	-46.536	3.850	12.000	-38.386	-13
10395	-60.949	-44.051	4.580	12.000	-36.631	-13
12128	-64.514	-47.532	4.800	13.300	-39.032	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 13 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 4 (3M) QPSK(1,0)	Test Range	9kHz ~20GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 4 (3M) QPSK(1,0)

3423	-48.158	-49.424	2.530	12.600	-39.354	-13
5135	-62.762	-58.525	3.050	13.100	-48.475	-13
6846	-58.440	-47.551	3.650	11.500	-39.701	-13
8558	-64.757	-49.498	3.850	12.000	-41.348	-13
10269	-62.926	-46.607	4.580	12.000	-39.187	-13
11981	-63.308	-46.781	4.800	13.300	-38.281	-13

Vertical Emissions Band 4 (3M) QPSK(1,0)

3423	-57.250	-57.519	2.530	12.600	-47.449	-13
5135	-61.846	-57.199	3.050	13.100	-47.149	-13
6846	-55.801	-44.305	3.650	11.500	-36.455	-13
8558	-64.264	-48.633	3.850	12.000	-40.483	-13
10269	-62.850	-46.708	4.580	12.000	-39.288	-13
11981	-64.636	-48.046	4.800	13.300	-39.546	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 13 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 4 (5M) QPSK(1,0)	Test Range	9kHz ~20GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 4 (5M) QPSK(1,0)

3424	-47.769	-49.035	2.530	12.600	-38.965	-13
5138	-62.965	-58.769	3.050	13.100	-48.719	-13
6840	-59.738	-48.849	3.650	11.500	-40.999	-13
8563	-64.308	-49.049	3.850	12.000	-40.899	-13
10275	-61.532	-45.170	4.580	12.000	-37.750	-13
11988	-63.930	-47.283	4.800	13.300	-38.783	-13

Vertical Emissions Band 4 (5M) QPSK(1,0)

3424	-56.028	-56.297	2.530	12.600	-46.227	-13
5138	-62.946	-58.424	3.050	13.100	-48.374	-13
6840	-55.543	-44.047	3.650	11.500	-36.197	-13
8563	-63.530	-47.844	3.850	12.000	-39.694	-13
10275	-61.969	-45.835	4.580	12.000	-38.415	-13
11988	-63.699	-46.789	4.800	13.300	-38.289	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 13 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 4 (10M) QPSK(1,0)	Test Range	9kHz ~20GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 4 (10M) QPSK(1,0)

3430	-48.162	-49.428	2.530	12.600	-39.358	-13
5145	-61.928	-57.510	3.050	13.100	-47.460	-13
6860	-56.804	-45.915	3.650	11.500	-38.065	-13
8575	-63.825	-48.457	3.850	12.000	-40.307	-13
10290	-61.857	-45.453	4.580	12.000	-38.033	-13
12005	-64.074	-47.664	4.800	13.300	-39.164	-13

Vertical Emissions Band 4 (10M) QPSK(1,0)

3430	-56.567	-56.836	2.530	12.600	-46.766	-13
5145	-62.343	-57.821	3.050	13.100	-47.771	-13
6860	-55.659	-44.163	3.650	11.500	-36.313	-13
8575	-64.652	-48.993	3.850	12.000	-40.843	-13
10290	-62.533	-46.399	4.580	12.000	-38.979	-13
12005	-64.101	-47.660	4.800	13.300	-39.160	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 13 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 4 (15M) QPSK(1,0)	Test Range	9kHz ~20GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 4 (15M) QPSK(1,0)

3456	-45.139	-50.027	2.530	12.600	-39.957	-13
5198	-63.301	-59.182	3.050	13.100	-49.132	-13
6900	-60.314	-48.920	3.650	11.500	-41.070	-13
8663	-62.637	-47.169	3.850	12.000	-39.019	-13
10395	-61.165	-44.423	4.580	12.000	-37.003	-13
12128	-64.766	-47.664	4.800	13.300	-39.164	-13

Vertical Emissions Band 4 (15M) QPSK(1,0)

3456	-55.219	-55.194	2.530	12.600	-45.124	-13
5198	-63.230	-58.804	3.050	13.100	-48.754	-13
6900	-57.308	-45.448	3.650	11.500	-37.598	-13
8663	-63.281	-47.277	3.850	12.000	-39.127	-13
10395	-60.754	-43.855	4.580	12.000	-36.435	-13
12128	-65.200	-48.218	4.800	13.300	-39.718	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 13 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 4 (20M) QPSK(1,0)	Test Range	9kHz ~20GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 4 (20M) QPSK(1,0)

3448	-43.038	-44.021	2.530	12.600	-33.951	-13
5198	-62.996	-58.940	3.050	13.100	-48.890	-13
6890	-58.969	-47.725	3.650	11.500	-39.875	-13
8663	-63.116	-47.648	3.850	12.000	-39.498	-13
10395	-61.542	-44.801	4.580	12.000	-37.381	-13
12128	-63.800	-46.614	4.800	13.300	-38.114	-13

Vertical Emissions Band 4 (20M) QPSK(1,0)

3448	-52.635	-52.683	2.530	12.600	-42.613	-13
5198	-63.541	-59.204	3.050	13.100	-49.154	-13
6890	-55.106	-43.315	3.650	11.500	-35.465	-13
8663	-63.335	-47.331	3.850	12.000	-39.181	-13
10395	-59.972	-43.240	4.580	12.000	-35.820	-13
12128	-65.462	-48.481	4.800	13.300	-39.981	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 13 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 5 (1.4M) QPSK(1,0)	Test Range	9kHz ~10GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 5 (1.4M) QPSK(1,0)

1648	-49.242	-52.637	1.630	9.800	-44.467	-13
2476	-58.985	-59.329	2.100	10.600	-50.829	-13
3298	-58.626	-60.307	2.350	12.300	-50.357	-13
4124	-61.063	-60.077	2.700	12.600	-50.177	-13
4948	-61.814	-57.727	2.830	12.700	-47.857	-13
5773	-64.231	-62.179	3.200	13.000	-52.379	-13

Vertical Emissions Band 5 (1.4M) QPSK(1,0)

1648	-54.738	-57.824	1.630	9.800	-49.654	-13
2476	-61.896	-61.973	2.100	10.600	-53.473	-13
3298	-59.594	-60.222	2.350	12.300	-50.272	-13
4124	-60.718	-58.038	2.700	12.600	-48.138	-13
4948	-62.981	-58.321	2.830	12.700	-48.451	-13
5773	-63.528	-61.350	3.200	13.000	-51.550	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 6 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 5 (3M) QPSK(1,0)	Test Range	9kHz ~10GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 5 (3M) QPSK(1,0)

1648	-50.094	-53.489	1.630	9.800	-45.319	-13
2477	-60.463	-60.808	2.100	10.600	-52.308	-13
3302	-56.159	-58.200	2.350	12.300	-48.250	-13
4128	-61.267	-60.280	2.700	12.600	-50.380	-13
4953	-62.838	-58.715	2.830	12.700	-48.845	-13
5779	-63.999	-61.985	3.200	13.000	-52.185	-13

Vertical Emissions Band 5 (3M) QPSK(1,0)

1648	-54.278	-57.365	1.630	9.800	-49.195	-13
2477	-63.142	-63.219	2.100	10.600	-54.719	-13
3302	-58.428	-59.054	2.350	12.300	-49.104	-13
4128	-60.280	-57.522	2.700	12.600	-47.622	-13
4953	-61.689	-57.160	2.830	12.700	-47.290	-13
5779	-63.518	-61.376	3.200	13.000	-51.576	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 6 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 5 (5M) QPSK(1,0)	Test Range	9kHz ~10GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 5 (5M) QPSK(1,0)

1653	-49.255	-52.650	1.630	9.800	-44.480	-13
2480	-60.232	-60.576	2.100	10.600	-52.076	-13
3306	-59.838	-61.516	2.350	12.300	-51.566	-13
4133	-61.151	-60.188	2.700	12.600	-50.288	-13
4959	-63.561	-59.420	2.830	12.700	-49.550	-13
5786	-63.862	-61.766	3.200	13.000	-51.966	-13

Vertical Emissions Band 5 (5M) QPSK(1,0)

1653	-54.032	-57.119	1.630	9.800	-48.949	-13
2480	-62.754	-62.835	2.100	10.600	-54.335	-13
3306	-59.247	-59.874	2.350	12.300	-49.924	-13
4133	-61.245	-58.595	2.700	12.600	-48.695	-13
4959	-62.761	-58.014	2.830	12.700	-48.144	-13
5786	-63.983	-61.912	3.200	13.000	-52.112	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 6 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 5 (10M) QPSK(1,0)	Test Range	9kHz ~10GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 5 (10M) QPSK(1,0)

1658	-50.335	-53.730	1.630	9.800	-45.560	-13
2487	-59.826	-60.170	2.100	10.600	-51.670	-13
3316	-59.416	-61.087	2.350	12.300	-51.137	-13
4145	-60.368	-59.381	2.700	12.600	-49.481	-13
4974	-63.114	-58.937	2.830	12.700	-49.067	-13
5803	-64.026	-61.785	3.200	13.000	-51.985	-13

Vertical Emissions Band 5 (10M) QPSK(1,0)

1658	-54.667	-57.754	1.630	9.800	-49.584	-13
2487	-62.525	-62.602	2.100	10.600	-54.102	-13
3316	-59.710	-60.323	2.350	12.300	-50.373	-13
4145	-60.333	-57.743	2.700	12.600	-47.843	-13
4974	-63.067	-58.232	2.830	12.700	-48.362	-13
5803	-63.807	-61.710	3.200	13.000	-51.910	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 6 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 12 (1.4M) QPSK(1,5)	Test Range	9kHz ~10GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 12 (1.4M) QPSK(1,5)

1399	-34.693	-39.082	1.630	9.800	-30.912	-13
2099	-62.229	-62.970	2.100	10.600	-54.470	-13
2799	-63.761	-65.510	2.350	12.300	-55.560	-13
3499	-60.165	-60.578	2.700	12.600	-50.678	-13
4198	-60.569	-59.611	2.830	12.700	-49.741	-13
4898	-63.592	-59.561	3.200	13.000	-49.761	-13

Vertical Emissions Band 12 (1.4M) QPSK(1,5)

1399	-42.646	-46.096	1.630	9.800	-37.926	-13
2099	-63.396	-64.258	2.100	10.600	-55.758	-13
2799	-63.340	-63.805	2.350	12.300	-53.855	-13
3499	-60.872	-60.309	2.700	12.600	-50.409	-13
4198	-61.082	-58.705	2.830	12.700	-48.835	-13
4898	-62.453	-58.036	3.200	13.000	-48.236	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 5 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 12 (3M) QPSK(1,7)	Test Range	9kHz ~10GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 12 (3M) QPSK(1,7)

1401	-35.441	-39.853	1.630	9.800	-31.683	-13
2102	-61.662	-62.339	2.100	10.600	-53.839	-13
2802	-63.759	-65.508	2.350	12.300	-55.558	-13
3503	-60.532	-60.948	2.700	12.600	-51.048	-13
4203	-60.374	-59.416	2.830	12.700	-49.546	-13
4904	-63.191	-59.142	3.200	13.000	-49.342	-13

Vertical Emissions Band 12 (3M) QPSK(1,7)

1401	-43.125	-46.575	1.630	9.800	-38.405	-13
2102	-63.691	-64.465	2.100	10.600	-55.965	-13
2802	-63.725	-64.178	2.350	12.300	-54.228	-13
3503	-60.292	-59.670	2.700	12.600	-49.770	-13
4203	-62.212	-59.784	2.830	12.700	-49.914	-13
4904	-63.674	-59.235	3.200	13.000	-49.435	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 5 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 12 (5M) QPSK(1,0)	Test Range	9kHz ~10GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 12 (5M) QPSK(1,0)

1403	-34.964	-39.353	1.630	9.800	-31.183	-13
2105	-62.419	-63.160	2.100	10.600	-54.660	-13
2806	-63.601	-65.350	2.350	12.300	-55.400	-13
3508	-59.613	-60.033	2.700	12.600	-50.133	-13
4209	-62.311	-61.092	2.830	12.700	-51.222	-13
4911	-63.412	-59.345	3.200	13.000	-49.545	-13

Vertical Emissions Band 12 (5M) QPSK(1,0)

1403	-43.055	-46.505	1.630	9.800	-38.335	-13
2105	-64.723	-65.496	2.100	10.600	-56.996	-13
2806	-62.848	-63.301	2.350	12.300	-53.351	-13
3508	-59.728	-59.045	2.700	12.600	-49.145	-13
4209	-61.953	-59.474	2.830	12.700	-49.604	-13
4911	-61.949	-57.438	3.200	13.000	-47.638	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 5 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 12 (10M) QPSK(1,0)	Test Range	9kHz ~10GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 12 (10M) QPSK(1,0)

1408	-35.740	-40.129	1.630	9.800	-31.959	-13
2112	-62.358	-63.099	2.100	10.600	-54.599	-13
2816	-64.294	-66.078	2.350	12.300	-56.128	-13
3520	-60.524	-60.954	2.700	12.600	-51.054	-13
4224	-62.564	-61.159	2.830	12.700	-51.289	-13
4928	-64.184	-60.063	3.200	13.000	-50.263	-13

Vertical Emissions Band 12 (10M) QPSK(1,0)

1408	-41.478	-44.928	1.630	9.800	-36.758	-13
2112	-65.353	-66.090	2.100	10.600	-57.590	-13
2816	-66.236	-66.755	2.350	12.300	-56.805	-13
3520	-60.698	-59.892	2.700	12.600	-49.992	-13
4224	-62.436	-59.818	2.830	12.700	-49.948	-13
4928	-62.922	-58.367	3.200	13.000	-48.567	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 5 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 13 (5M) QPSK(1,12)	Test Range	9kHz ~10GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 13 (5M) QPSK(1,12)

1564	-45.496	-49.916	1.630	9.800	-41.746	-40
2346	-58.539	-58.745	2.100	10.600	-50.245	-13
3128	-58.998	-60.096	2.350	12.300	-50.146	-13
3910	-61.307	-61.457	2.700	12.600	-51.557	-13
4692	-62.688	-59.427	2.830	12.700	-49.557	-13
5474	-63.812	-59.661	3.200	13.000	-49.861	-13

Vertical Emissions Band 13 (5M) QPSK(1,12)

1564	-50.571	-54.317	1.630	9.800	-46.147	-40
2346	-61.272	-60.882	2.100	10.600	-52.382	-13
3128	-59.497	-59.588	2.350	12.300	-49.638	-13
3910	-61.875	-59.991	2.700	12.600	-50.091	-13
4692	-63.409	-59.350	2.830	12.700	-49.480	-13
5474	-63.793	-59.268	3.200	13.000	-49.468	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 6 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 13 (10M) QPSK(1,24)	Test Range	9kHz ~10GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 13 (10M) QPSK(1,24)

1564	-46.692	-51.112	1.630	9.800	-42.942	-40
2346	-58.301	-58.507	2.100	10.600	-50.007	-13
3128	-59.484	-60.547	2.350	12.300	-50.597	-13
3910	-61.220	-61.370	2.700	12.600	-51.470	-13
4692	-62.532	-59.190	2.830	12.700	-49.320	-13
5474	-63.351	-59.193	3.200	13.000	-49.393	-13

Vertical Emissions Band 13 (10M) QPSK(1,24)

1564	-51.533	-55.279	1.630	9.800	-47.109	-40
2346	-60.172	-59.781	2.100	10.600	-51.281	-13
3128	-60.684	-60.759	2.350	12.300	-50.809	-13
3910	-61.127	-59.242	2.700	12.600	-49.342	-13
4692	-62.491	-58.432	2.830	12.700	-48.562	-13
5474	-62.699	-58.174	3.200	13.000	-48.374	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 6 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

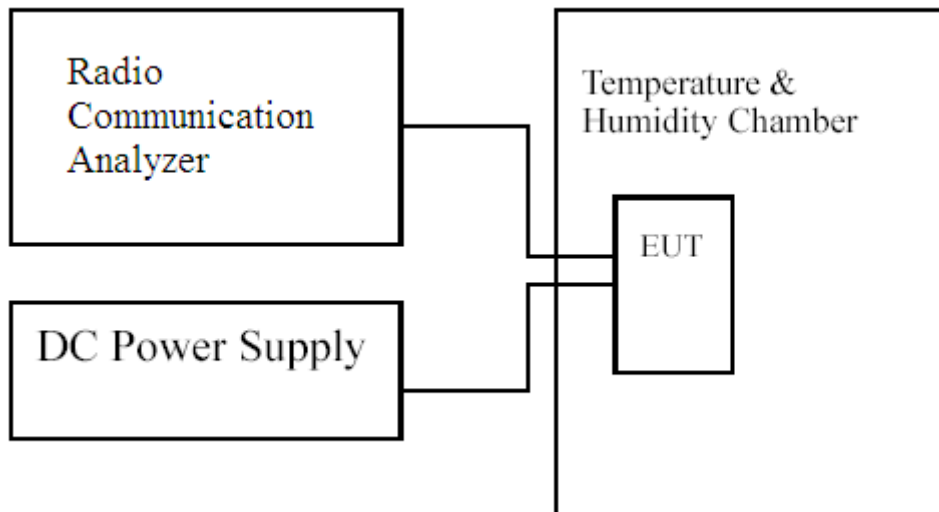
7. Frequency Stability Under Temperature & Voltage Variations

7.1. Test Specification

According to Part 2.1055, 22.355, 24.235, 27.54

RSS GEN, RSS 130, RSS 132, RSS 133

7.2. Test Setup



7.3. Limits

Limit	<±2.5ppm
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7.4. Test Procedure

The frequency stability of transmitter is measured by:

- Temperature: The temperature is varied from -30 °C to 50 °C in 10 °C increment using a standard temperature & Humidity chamber.
- Primary Supply Voltage: The primary supply voltage is varied 85% to 115% of the nominal value for non hand-carried equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating endpoint which shall be specified by the manufacturer.

The EUT was connected via the base station simulator. Universal Radio Communication Tester, (MT8820C), was used to measure The Frequency Error. The maximum result of measurements was recorded.

7.5. Test Result of Frequency Stability Under Temperature Variations

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 2 (1.4M) CH18900(1880MHz) –QPSK	Test Range	-20°C~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.88	0.0133	±4.70
-20	1.88	0.0111	±4.70
-10	1.88	0.0129	±4.70
0	1.88	0.0096	±4.70
10	1.88	0.0108	±4.70
20	1.88	0.0096	±4.70
30	1.88	0.0148	±4.70
40	1.88	0.0094	±4.70
50	1.88	0.0100	±4.70

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.88	0.0116	±4.70
120	1.88	0.0096	±4.70
102	1.88	0.0104	±4.70

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 2 (1.4M) CH18900(1880MHz) –16QAM	Test Range	-20°C ~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.88	0.0072	±4.70
-20	1.88	0.0090	±4.70
-10	1.88	-0.0088	±4.70
0	1.88	0.0125	±4.70
10	1.88	0.0093	±4.70
20	1.88	0.0130	±4.70
30	1.88	0.0188	±4.70
40	1.88	0.0131	±4.70
50	1.88	-0.0085	±4.70

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.88	0.0094	±4.70
120	1.88	0.0130	±4.70
102	1.88	0.0119	±4.70

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 2 (3M) CH18900(1880MHz) –QPSK	Test Range	-30°C~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.88	0.0164	±4.70
-20	1.88	0.0085	±4.70
-10	1.88	0.0071	±4.70
0	1.88	-0.0138	±4.70
10	1.88	0.0124	±4.70
20	1.88	0.0182	±4.70
30	1.88	0.0117	±4.70
40	1.88	-0.0087	±4.70
50	1.88	-0.0080	±4.70

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.88	0.0183	±4.70
120	1.88	0.0182	±4.70
102	1.88	0.0106	±4.70

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 2 (3M) CH18900(1880MHz) –16QAM	Test Range	-30°C ~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.88	0.0082	±4.70
-20	1.88	-0.0127	±4.70
-10	1.88	-0.0119	±4.70
0	1.88	-0.0154	±4.70
10	1.88	0.0109	±4.70
20	1.88	0.0134	±4.70
30	1.88	-0.0132	±4.70
40	1.88	0.0125	±4.70
50	1.88	0.0143	±4.70

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.88	-0.0115	±4.70
120	1.88	0.0134	±4.70
102	1.88	-0.0126	±4.70

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 2 (5M) CH18900(1880MHz) –QPSK	Test Range	-20°C~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.88	-0.0127	±4.70
-20	1.88	-0.0136	±4.70
-10	1.88	-0.0143	±4.70
0	1.88	-0.0125	±4.70
10	1.88	0.0133	±4.70
20	1.88	0.0147	±4.70
30	1.88	-0.0196	±4.70
40	1.88	0.0141	±4.70
50	1.88	-0.0112	±4.70

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.88	-0.0172	±4.70
120	1.88	0.0147	±4.70
102	1.88	-0.0104	±4.70

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 2 (5M) CH18900(1880MHz) –16QAM	Test Range	-20°C~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.88	0.0095	±4.70
-20	1.88	0.0091	±4.70
-10	1.88	-0.0106	±4.70
0	1.88	-0.0149	±4.70
10	1.88	-0.0131	±4.70
20	1.88	-0.0126	±4.70
30	1.88	0.0119	±4.70
40	1.88	-0.0139	±4.70
50	1.88	-0.0108	±4.70

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.88	-0.0106	±4.70
120	1.88	-0.0126	±4.70
102	1.88	-0.0100	±4.70

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 2 (10M) CH18900(1880MHz) –QPSK	Test Range	-30°C~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.88	-0.0083	±4.70
-20	1.88	0.0112	±4.70
-10	1.88	0.0123	±4.70
0	1.88	0.0105	±4.70
10	1.88	0.0138	±4.70
20	1.88	0.0184	±4.70
30	1.88	0.0114	±4.70
40	1.88	-0.0102	±4.70
50	1.88	0.0129	±4.70

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.88	0.0098	±4.70
120	1.88	0.0184	±4.70
102	1.88	0.0142	±4.70

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 2 (10M) CH18900(1880MHz) –16QAM	Test Range	-30°C ~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.88	0.0119	±4.70
-20	1.88	-0.0143	±4.70
-10	1.88	0.0092	±4.70
0	1.88	0.0110	±4.70
10	1.88	-0.0129	±4.70
20	1.88	-0.0124	±4.70
30	1.88	-0.0118	±4.70
40	1.88	-0.0080	±4.70
50	1.88	0.0123	±4.70

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.88	0.0146	±4.70
120	1.88	-0.0124	±4.70
102	1.88	-0.0127	±4.70

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 2 (15M) CH18900(1880MHz) –QPSK	Test Range	-30°C~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.88	0.0099	±4.70
-20	1.88	0.0074	±4.70
-10	1.88	0.0088	±4.70
0	1.88	-0.0098	±4.70
10	1.88	-0.0078	±4.70
20	1.88	0.0109	±4.70
30	1.88	0.0123	±4.70
40	1.88	0.0140	±4.70
50	1.88	0.0093	±4.70

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.88	0.0077	±4.70
120	1.88	0.0109	±4.70
102	1.88	-0.0138	±4.70

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 2 (15M) CH18900(1880MHz) –16QAM	Test Range	-30°C ~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.88	-0.0121	±4.70
-20	1.88	0.0079	±4.70
-10	1.88	-0.0100	±4.70
0	1.88	0.0126	±4.70
10	1.88	-0.0123	±4.70
20	1.88	0.0207	±4.70
30	1.88	0.0119	±4.70
40	1.88	-0.0092	±4.70
50	1.88	-0.0073	±4.70

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.88	0.0105	±4.70
120	1.88	0.0207	±4.70
102	1.88	0.0106	±4.70

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 2 (20M) CH18900(1880MHz) –QPSK	Test Range	-30°C ~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.88	0.0240	±4.70
-20	1.88	0.0098	±4.70
-10	1.88	0.0105	±4.70
0	1.88	-0.0167	±4.70
10	1.88	0.0178	±4.70
20	1.88	0.0125	±4.70
30	1.88	0.0143	±4.70
40	1.88	0.0133	±4.70
50	1.88	0.0121	±4.70

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.88	0.0140	±4.70
120	1.88	0.0125	±4.70
102	1.88	0.0090	±4.70

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 2 (20M) CH18900(1880MHz) –16QAM	Test Range	-30°C ~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.88	0.0073	±4.70
-20	1.88	0.0096	±4.70
-10	1.88	0.0078	±4.70
0	1.88	0.0085	±4.70
10	1.88	-0.0111	±4.70
20	1.88	-0.0133	±4.70
30	1.88	0.0117	±4.70
40	1.88	0.0136	±4.70
50	1.88	-0.0122	±4.70

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.88	0.0166	±4.70
120	1.88	-0.0133	±4.70
102	1.88	0.0102	±4.70

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 4 (1.4M) CH20175(1732.5MHz) –QPSK	Test Range	-20°C~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.73	-0.0141	±4.33
-20	1.73	-0.0120	±4.33
-10	1.73	-0.0111	±4.33
0	1.73	0.0140	±4.33
10	1.73	-0.0120	±4.33
20	1.73	-0.0122	±4.33
30	1.73	-0.0131	±4.33
40	1.73	-0.0115	±4.33
50	1.73	-0.0107	±4.33

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.73	-0.0119	±4.33
120	1.73	-0.0122	±4.33
102	1.73	-0.0107	±4.33

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 4 (1.4M) CH20175(1732.5MHz) –16QAM	Test Range	-20°C ~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.73	-0.0104	±4.33
-20	1.73	-0.0158	±4.33
-10	1.73	0.0085	±4.33
0	1.73	-0.0097	±4.33
10	1.73	0.0122	±4.33
20	1.73	0.0134	±4.33
30	1.73	0.0119	±4.33
40	1.73	0.0106	±4.33
50	1.73	0.0144	±4.33

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.73	0.0102	±4.33
120	1.73	0.0134	±4.33
102	1.73	0.0097	±4.33

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 4 (3M) CH20175(1732.5MHz) –QPSK	Test Range	-30°C~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.73	-0.0102	±4.33
-20	1.73	0.0095	±4.33
-10	1.73	0.0125	±4.33
0	1.73	-0.0146	±4.33
10	1.73	0.0121	±4.33
20	1.73	-0.0209	±4.33
30	1.73	0.0166	±4.33
40	1.73	0.0100	±4.33
50	1.73	-0.0142	±4.33

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.73	-0.0142	±4.33
120	1.73	-0.0209	±4.33
102	1.73	-0.0131	±4.33

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 4 (3M) CH20175(1732.5MHz) –16QAM	Test Range	-30°C ~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.73	0.0152	±4.33
-20	1.73	-0.0100	±4.33
-10	1.73	-0.0115	±4.33
0	1.73	-0.0166	±4.33
10	1.73	0.0132	±4.33
20	1.73	-0.0135	±4.33
30	1.73	-0.0112	±4.33
40	1.73	-0.0141	±4.33
50	1.73	-0.0109	±4.33

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.73	0.0112	±4.33
120	1.73	-0.0135	±4.33
102	1.73	-0.0138	±4.33

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 4 (5M) CH20175(1732.5MHz) –QPSK	Test Range	-20°C~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.73	-0.0128	±4.33
-20	1.73	-0.0116	±4.33
-10	1.73	0.0112	±4.33
0	1.73	-0.0145	±4.33
10	1.73	-0.0122	±4.33
20	1.73	-0.0153	±4.33
30	1.73	-0.0140	±4.33
40	1.73	-0.0144	±4.33
50	1.73	-0.0182	±4.33

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.73	-0.0128	±4.33
120	1.73	-0.0153	±4.33
102	1.73	0.0102	±4.33

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 4 (5M) CH20175(1732.5MHz) –16QAM	Test Range	-20°C~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.73	-0.0117	±4.33
-20	1.73	-0.0106	±4.33
-10	1.73	-0.0120	±4.33
0	1.73	0.0162	±4.33
10	1.73	-0.0127	±4.33
20	1.73	0.0176	±4.33
30	1.73	0.0117	±4.33
40	1.73	-0.0098	±4.33
50	1.73	-0.0162	±4.33

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.73	-0.0135	±4.33
120	1.73	0.0176	±4.33
102	1.73	-0.0105	±4.33

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 4 (10M) CH20175(1732.5MHz)-QPSK	Test Range	-30°C~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.73	-0.0098	±4.33
-20	1.73	-0.0118	±4.33
-10	1.73	-0.0095	±4.33
0	1.73	0.0085	±4.33
10	1.73	-0.0112	±4.33
20	1.73	-0.0115	±4.33
30	1.73	-0.0166	±4.33
40	1.73	-0.0110	±4.33
50	1.73	-0.0102	±4.33

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.73	0.0140	±4.33
120	1.73	-0.0115	±4.33
102	1.73	-0.0174	±4.33

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 4 (10M) CH20175(1732.5MHz)-16QAM	Test Range	-30°C ~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.73	0.0106	±4.33
-20	1.73	0.0112	±4.33
-10	1.73	0.0146	±4.33
0	1.73	-0.0172	±4.33
10	1.73	-0.0140	±4.33
20	1.73	-0.0174	±4.33
30	1.73	-0.0227	±4.33
40	1.73	0.0106	±4.33
50	1.73	-0.0119	±4.33

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.73	-0.0115	±4.33
120	1.73	-0.0174	±4.33
102	1.73	-0.0147	±4.33

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 4 (15M) CH20175(1732.5MHz)-QPSK	Test Range	-30°C~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.73	-0.0134	±4.33
-20	1.73	-0.0122	±4.33
-10	1.73	0.0139	±4.33
0	1.73	-0.0111	±4.33
10	1.73	-0.0107	±4.33
20	1.73	-0.0141	±4.33
30	1.73	-0.0114	±4.33
40	1.73	-0.0096	±4.33
50	1.73	-0.0140	±4.33

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.73	-0.0143	±4.33
120	1.73	-0.0141	±4.33
102	1.73	-0.0109	±4.33

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 4 (15M) CH20175(1732.5MHz)-16QAM	Test Range	-30°C ~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.73	0.0092	±4.33
-20	1.73	0.0099	±4.33
-10	1.73	-0.0082	±4.33
0	1.73	0.0089	±4.33
10	1.73	-0.0140	±4.33
20	1.73	-0.0112	±4.33
30	1.73	-0.0118	±4.33
40	1.73	-0.0124	±4.33
50	1.73	-0.0088	±4.33

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.73	0.0108	±4.33
120	1.73	-0.0112	±4.33
102	1.73	0.0144	±4.33

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 4 (20M) CH20175(1732.5MHz)-QPSK	Test Range	-30°C ~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.73	-0.0165	±4.33
-20	1.73	-0.0137	±4.33
-10	1.73	-0.0073	±4.33
0	1.73	-0.0096	±4.33
10	1.73	-0.0114	±4.33
20	1.73	0.0094	±4.33
30	1.73	-0.0095	±4.33
40	1.73	-0.0140	±4.33
50	1.73	-0.0151	±4.33

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.73	0.0149	±4.33
120	1.73	0.0094	±4.33
102	1.73	-0.0113	±4.33

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 4 (20M) CH20175(1732.5MHz)-16QAM	Test Range	-30°C ~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.73	-0.0148	±4.33
-20	1.73	-0.0169	±4.33
-10	1.73	-0.0127	±4.33
0	1.73	-0.0124	±4.33
10	1.73	-0.0115	±4.33
20	1.73	0.0136	±4.33
30	1.73	-0.0098	±4.33
40	1.73	-0.0103	±4.33
50	1.73	-0.0125	±4.33

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.73	-0.0088	±4.33
120	1.73	0.0136	±4.33
102	1.73	-0.0111	±4.33

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 5 (1.4M) CH20525(836.5MHz)-QPSK	Test Range	-30°C~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.8365	0.0068	±2.09
-20	0.8365	0.0116	±2.09
-10	0.8365	-0.0111	±2.09
0	0.8365	0.0101	±2.09
10	0.8365	0.0090	±2.09
20	0.8365	0.0084	±2.09
30	0.8365	0.0062	±2.09
40	0.8365	0.0084	±2.09
50	0.8365	-0.0066	±2.09

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.8365	0.0081	±2.09
120	0.8365	0.0084	±2.09
102	0.8365	0.0085	±2.09

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 5 (1.4M) CH20525(836.5MHz)-16QAM	Test Range	-30°C ~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.8365	0.0077	±2.09
-20	0.8365	0.0065	±2.09
-10	0.8365	0.0081	±2.09
0	0.8365	-0.0070	±2.09
10	0.8365	-0.0073	±2.09
20	0.8365	0.0096	±2.09
30	0.8365	-0.0091	±2.09
40	0.8365	0.0081	±2.09
50	0.8365	-0.0073	±2.09

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.8365	0.0112	±2.09
120	0.8365	0.0096	±2.09
102	0.8365	0.0085	±2.09

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 5 (3M) CH20525(836.5MHz)-QPSK	Test Range	-30°C~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.8365	-0.0053	±2.09
-20	0.8365	0.0071	±2.09
-10	0.8365	0.0063	±2.09
0	0.8365	-0.0058	±2.09
10	0.8365	0.0092	±2.09
20	0.8365	-0.0066	±2.09
30	0.8365	0.0108	±2.09
40	0.8365	0.0080	±2.09
50	0.8365	-0.0059	±2.09

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.8365	-0.0052	±2.09
120	0.8365	-0.0066	±2.09
102	0.8365	-0.0061	±2.09

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 5 (3M) CH20525(836.5MHz)-16QAM	Test Range	-30°C ~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.8365	0.0081	±2.09
-20	0.8365	0.0088	±2.09
-10	0.8365	-0.0073	±2.09
0	0.8365	-0.0062	±2.09
10	0.8365	-0.0104	±2.09
20	0.8365	0.0065	±2.09
30	0.8365	-0.0050	±2.09
40	0.8365	0.0056	±2.09
50	0.8365	0.0080	±2.09

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.8365	0.0076	±2.09
120	0.8365	0.0065	±2.09
102	0.8365	0.0057	±2.09

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 5 (5M) CH20525(836.5MHz)-QPSK	Test Range	-30°C~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.8365	-0.0100	±2.09
-20	0.8365	-0.0082	±2.09
-10	0.8365	0.0078	±2.09
0	0.8365	0.0094	±2.09
10	0.8365	0.0111	±2.09
20	0.8365	-0.0062	±2.09
30	0.8365	-0.0088	±2.09
40	0.8365	0.0078	±2.09
50	0.8365	0.0098	±2.09

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.8365	0.0053	±2.09
120	0.8365	-0.0062	±2.09
102	0.8365	0.0072	±2.09

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 5 (5M) CH20525(836.5MHz)-16QAM	Test Range	-30°C ~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.8365	0.0062	±2.09
-20	0.8365	0.0074	±2.09
-10	0.8365	0.0102	±2.09
0	0.8365	0.0124	±2.09
10	0.8365	-0.0072	±2.09
20	0.8365	0.0088	±2.09
30	0.8365	0.0061	±2.09
40	0.8365	0.0078	±2.09
50	0.8365	0.0069	±2.09

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.8365	0.0082	±2.09
120	0.8365	0.0088	±2.09
102	0.8365	0.0072	±2.09

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 5 (10M) CH20525(836.5MHz)-QPSK	Test Range	-30°C~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.8365	0.0093	±2.09
-20	0.8365	0.0070	±2.09
-10	0.8365	-0.0081	±2.09
0	0.8365	-0.0069	±2.09
10	0.8365	0.0067	±2.09
20	0.8365	0.0086	±2.09
30	0.8365	0.0084	±2.09
40	0.8365	0.0061	±2.09
50	0.8365	0.0064	±2.09

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.8365	0.0068	±2.09
120	0.8365	0.0086	±2.09
102	0.8365	0.0076	±2.09

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 5 (10M) CH20525(836.5MHz)-16QAM	Test Range	-30°C ~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.8365	-0.0063	±2.09
-20	0.8365	0.0072	±2.09
-10	0.8365	-0.0102	±2.09
0	0.8365	-0.0085	±2.09
10	0.8365	0.0072	±2.09
20	0.8365	0.0060	±2.09
30	0.8365	-0.0068	±2.09
40	0.8365	0.0067	±2.09
50	0.8365	-0.0075	±2.09

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.8365	0.0076	±2.09
120	0.8365	0.0060	±2.09
102	0.8365	0.0069	±2.09

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 12 (1.4M) CH23095(707.5MHz)-QPSK	Test Range	-30°C~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.7075	0.0050	±1.77
-20	0.7075	-0.0066	±1.77
-10	0.7075	0.0078	±1.77
0	0.7075	0.0096	±1.77
10	0.7075	0.0057	±1.77
20	0.7075	0.0089	±1.77
30	0.7075	0.0077	±1.77
40	0.7075	0.0069	±1.77
50	0.7075	0.0032	±1.77

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.7075	0.0077	±1.77
120	0.7075	0.0089	±1.77
102	0.7075	-0.0066	±1.77

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 12 (1.4M) CH23095(707.5MHz)-16QAM	Test Range	-30°C ~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.7075	0.0065	±1.77
-20	0.7075	0.0071	±1.77
-10	0.7075	0.0077	±1.77
0	0.7075	0.0127	±1.77
10	0.7075	0.0058	±1.77
20	0.7075	0.0094	±1.77
30	0.7075	0.0103	±1.77
40	0.7075	0.0076	±1.77
50	0.7075	0.0062	±1.77

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.7075	0.0073	±1.77
120	0.7075	0.0094	±1.77
102	0.7075	0.0083	±1.77

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 12 (3M) CH23095(707.5MHz)-QPSK	Test Range	-30°C~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.7075	-0.0059	±1.77
-20	0.7075	0.0070	±1.77
-10	0.7075	0.0092	±1.77
0	0.7075	0.0088	±1.77
10	0.7075	0.0106	±1.77
20	0.7075	0.0092	±1.77
30	0.7075	-0.0069	±1.77
40	0.7075	-0.0074	±1.77
50	0.7075	0.0080	±1.77

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.7075	0.0071	±1.77
120	0.7075	0.0092	±1.77
102	0.7075	0.0062	±1.77

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 12 (3M) CH23095(707.5MHz)-16QAM	Test Range	-30°C ~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.7075	-0.0047	±1.77
-20	0.7075	-0.0052	±1.77
-10	0.7075	-0.0082	±1.77
0	0.7075	0.0076	±1.77
10	0.7075	-0.0092	±1.77
20	0.7075	0.0076	±1.77
30	0.7075	0.0094	±1.77
40	0.7075	-0.0066	±1.77
50	0.7075	0.0073	±1.77

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.7075	-0.0069	±1.77
120	0.7075	0.0076	±1.77
102	0.7075	0.0072	±1.77

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 12 (5M) CH23095(707.5MHz)-QPSK	Test Range	-30°C~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.7075	0.0068	±1.77
-20	0.7075	0.0051	±1.77
-10	0.7075	0.0073	±1.77
0	0.7075	-0.0065	±1.77
10	0.7075	-0.0084	±1.77
20	0.7075	0.0095	±1.77
30	0.7075	0.0077	±1.77
40	0.7075	0.0074	±1.77
50	0.7075	0.0088	±1.77

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.7075	-0.0075	±1.77
120	0.7075	0.0095	±1.77
102	0.7075	0.0091	±1.77

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 12 (5M) CH23095(707.5MHz)-16QAM	Test Range	-30°C ~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.7075	0.0062	±1.77
-20	0.7075	0.0100	±1.77
-10	0.7075	0.0075	±1.77
0	0.7075	0.0071	±1.77
10	0.7075	0.0078	±1.77
20	0.7075	0.0104	±1.77
30	0.7075	0.0065	±1.77
40	0.7075	0.0048	±1.77
50	0.7075	0.0051	±1.77

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.7075	0.0103	±1.77
120	0.7075	0.0104	±1.77
102	0.7075	0.0100	±1.77

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 12 (10M) CH23095(707.5MHz)-QPSK	Test Range	-30°C~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.7075	0.0070	±1.77
-20	0.7075	-0.0084	±1.77
-10	0.7075	0.0054	±1.77
0	0.7075	-0.0069	±1.77
10	0.7075	0.0074	±1.77
20	0.7075	-0.0078	±1.77
30	0.7075	0.0048	±1.77
40	0.7075	0.0069	±1.77
50	0.7075	0.0052	±1.77

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.7075	-0.0074	±1.77
120	0.7075	-0.0078	±1.77
102	0.7075	-0.0063	±1.77

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 12 (10M) CH23095(707.5MHz)-16QAM	Test Range	-30°C ~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.7075	0.0082	±1.77
-20	0.7075	-0.0069	±1.77
-10	0.7075	-0.0048	±1.77
0	0.7075	0.0064	±1.77
10	0.7075	0.0073	±1.77
20	0.7075	0.0087	±1.77
30	0.7075	0.0063	±1.77
40	0.7075	0.0077	±1.77
50	0.7075	0.0068	±1.77

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.7075	-0.0073	±1.77
120	0.7075	0.0087	±1.77
102	0.7075	0.0084	±1.77

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 13 (5M) CH23230(782MHz)-QPSK	Test Range	-30°C~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.782	0.0064	±1.96
-20	0.782	0.0073	±1.96
-10	0.782	0.0080	±1.96
0	0.782	0.0088	±1.96
10	0.782	0.0096	±1.96
20	0.782	0.0102	±1.96
30	0.782	0.0089	±1.96
40	0.782	0.0099	±1.96
50	0.782	0.0066	±1.96

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.782	0.0089	±1.96
120	0.782	0.0120	±1.96
102	0.782	0.0102	±1.96

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 13 (5M) CH23230(782MHz)-16QAM	Test Range	-30°C ~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.782	0.0054	±1.96
-20	0.782	0.0077	±1.96
-10	0.782	0.0065	±1.96
0	0.782	-0.0093	±1.96
10	0.782	-0.0073	±1.96
20	0.782	-0.0080	±1.96
30	0.782	0.0105	±1.96
40	0.782	-0.0074	±1.96
50	0.782	0.0083	±1.96

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.782	0.0093	±1.96
120	0.782	-0.0080	±1.96
102	0.782	-0.0095	±1.96

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 13 (10M) CH23230(782MHz)-QPSK	Test Range	-30°C~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.782	0.0062	±1.96
-20	0.782	0.0093	±1.96
-10	0.782	0.0079	±1.96
0	0.782	0.0061	±1.96
10	0.782	0.0064	±1.96
20	0.782	0.0080	±1.96
30	0.782	0.0085	±1.96
40	0.782	0.0076	±1.96
50	0.782	0.0058	±1.96

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.782	-0.0082	±1.96
120	0.782	0.0080	±1.96
102	0.782	-0.0082	±1.96

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 13 (10M) CH23230(782MHz)-16QAM	Test Range	-30°C ~+50°C

Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.782	-0.0068	±1.96
-20	0.782	-0.0083	±1.96
-10	0.782	-0.0072	±1.96
0	0.782	0.0094	±1.96
10	0.782	0.0062	±1.96
20	0.782	-0.0068	±1.96
30	0.782	0.0061	±1.96
40	0.782	0.0057	±1.96
50	0.782	0.0055	±1.96

Voltage Variations

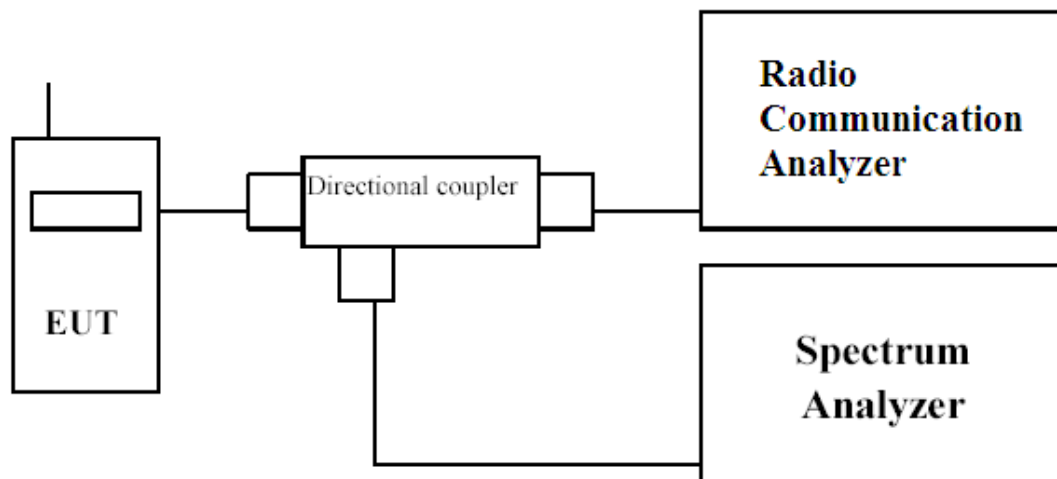
AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.782	0.0710	±1.96
120	0.782	-0.0068	±1.96
102	0.782	0.0076	±1.96

8. Peak to Average Ratio

8.1 Test Specification

According to Part 27.50(a), IC RSS 130, RSS 132, RSS 133, RSS 139

8.2 Test Setup



8.3 Limits

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time or other Commission approved procedure.

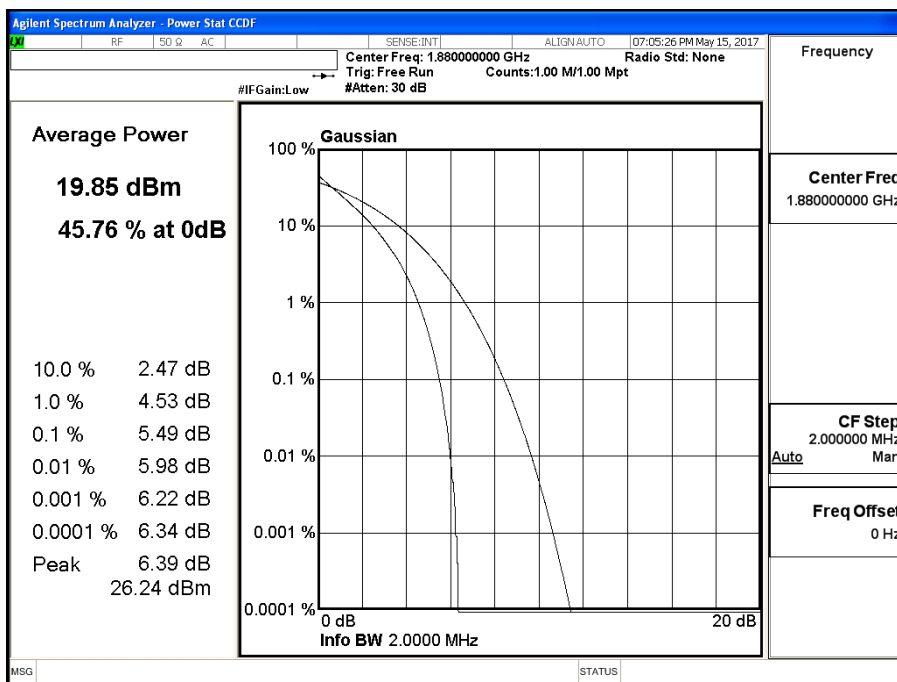
8.4 Test Procedure

- a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
- b) Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
- c) Set the number of counts to a value that stabilizes the measured CCDF curve;
- d) Set the measurement interval as follows:
 - 1) for continuous transmissions, set to 1 ms,
 - 2) for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
- e) Record the maximum PAPR level associated with a probability of 0.1%.

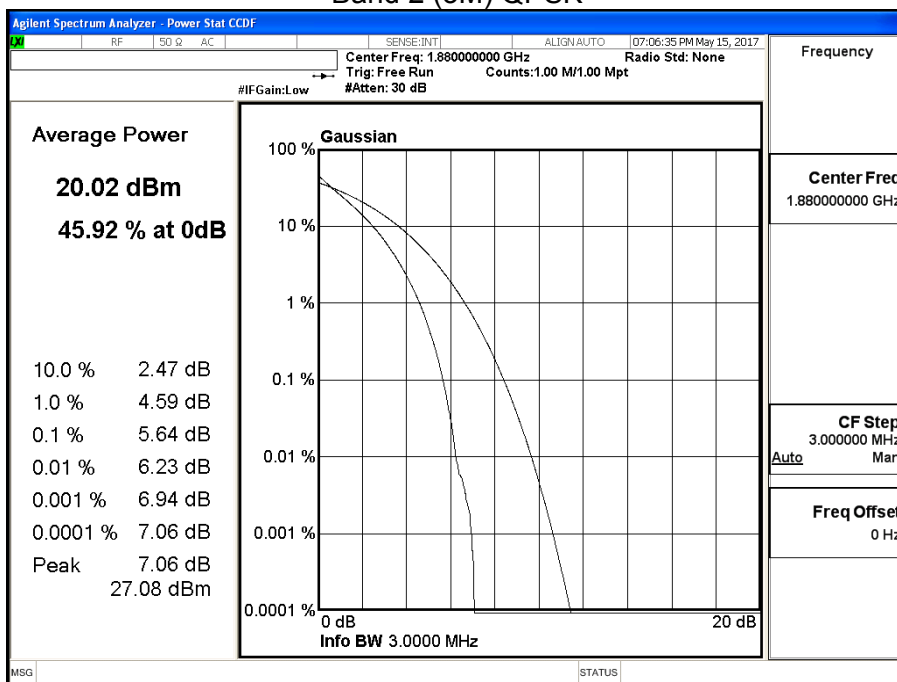
8.5 Test Result of Spurious Emission

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Peak to Average Ratio		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	LTE-Band 2		

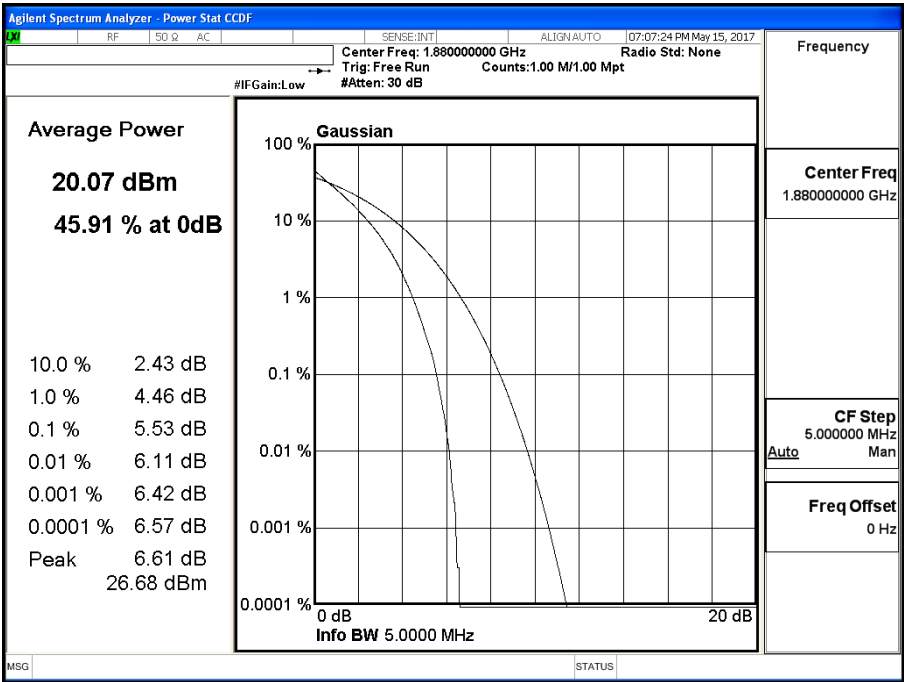
Band 2 (1.4M) QPSK



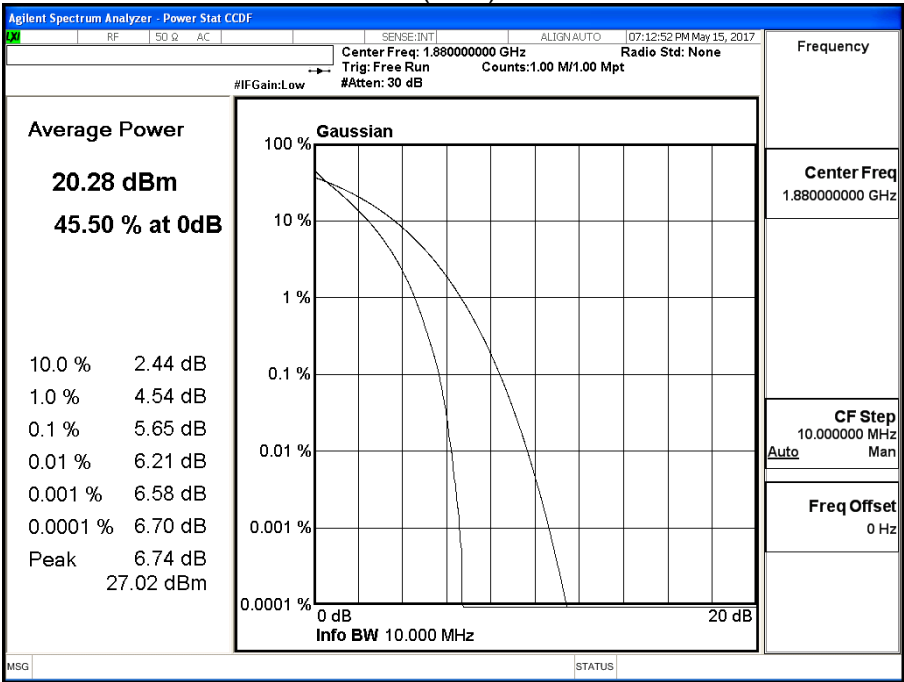
Band 2 (3M) QPSK



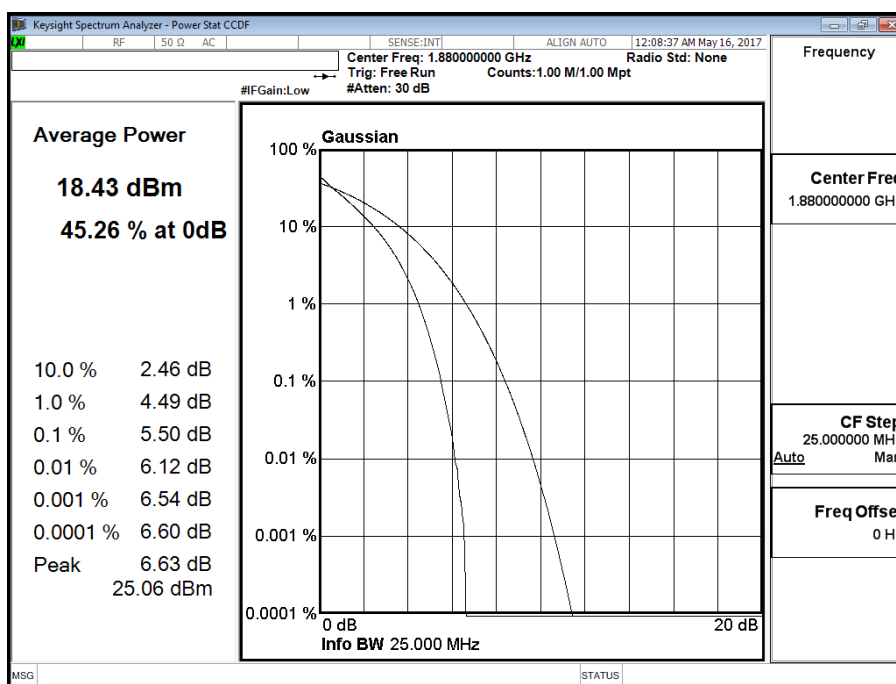
Band 2 (5M) QPSK



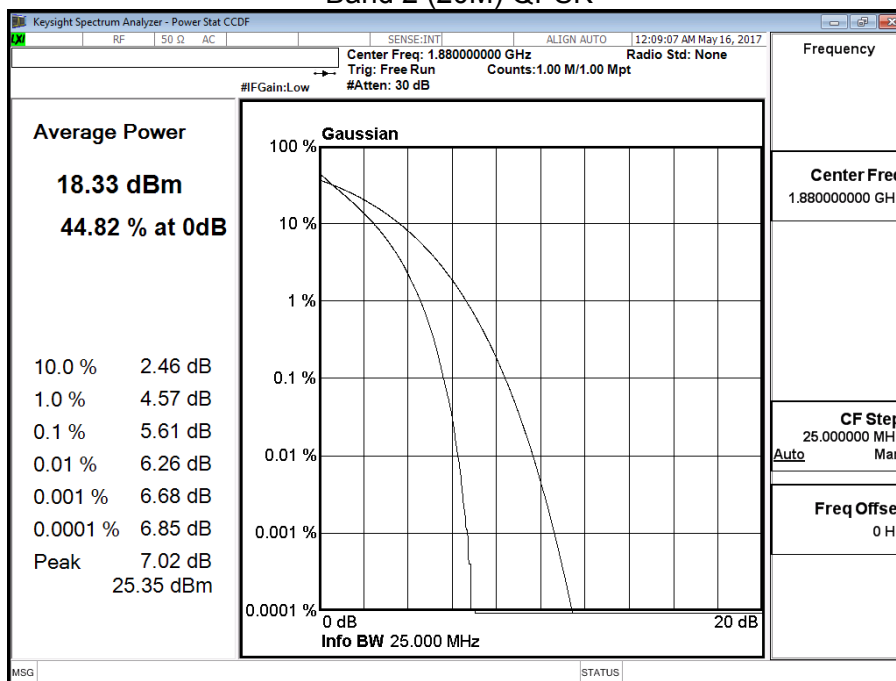
Band 2 (10M) QPSK



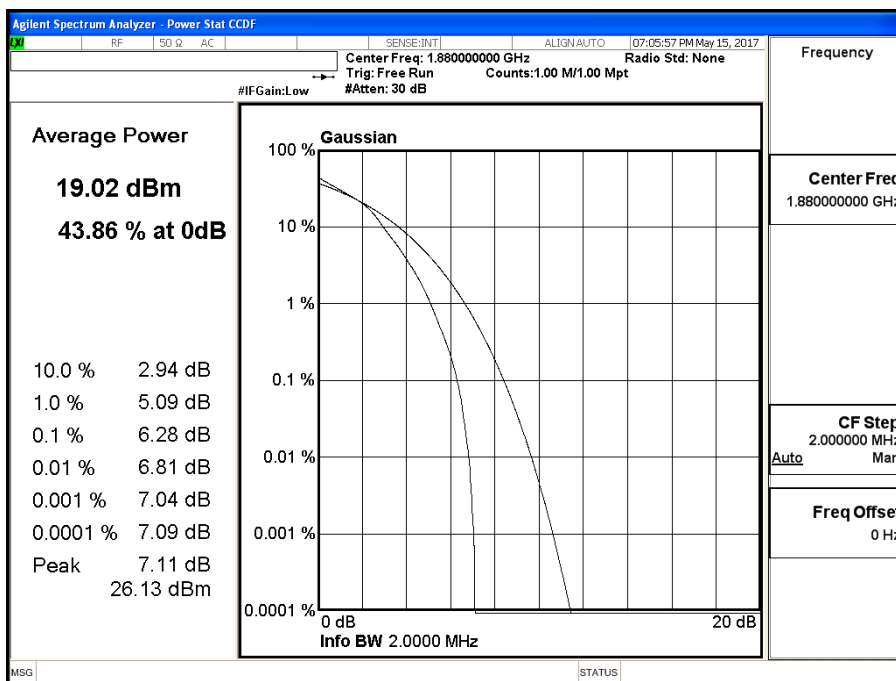
Band 2 (15M) QPSK



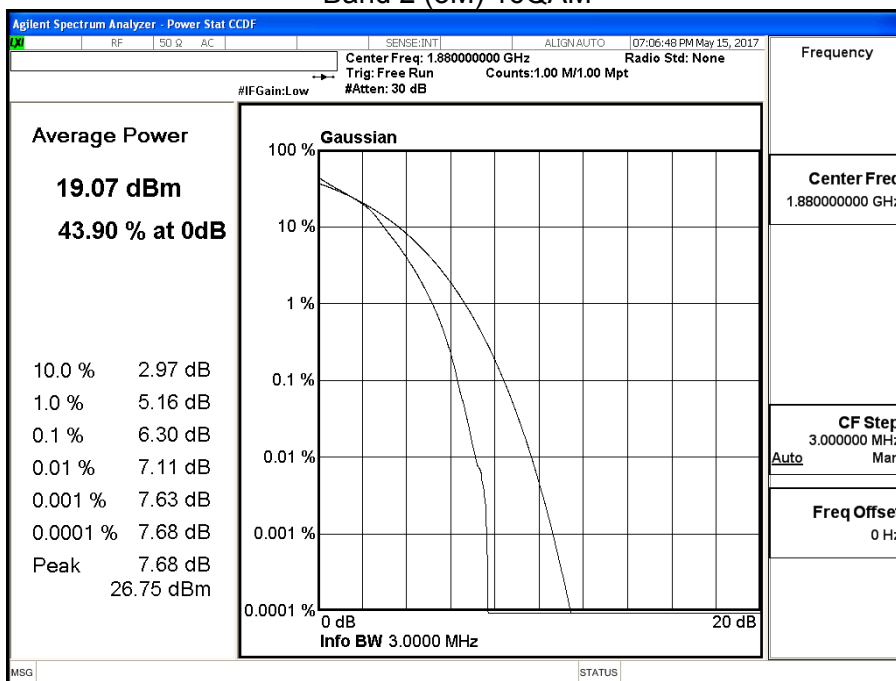
Band 2 (20M) QPSK



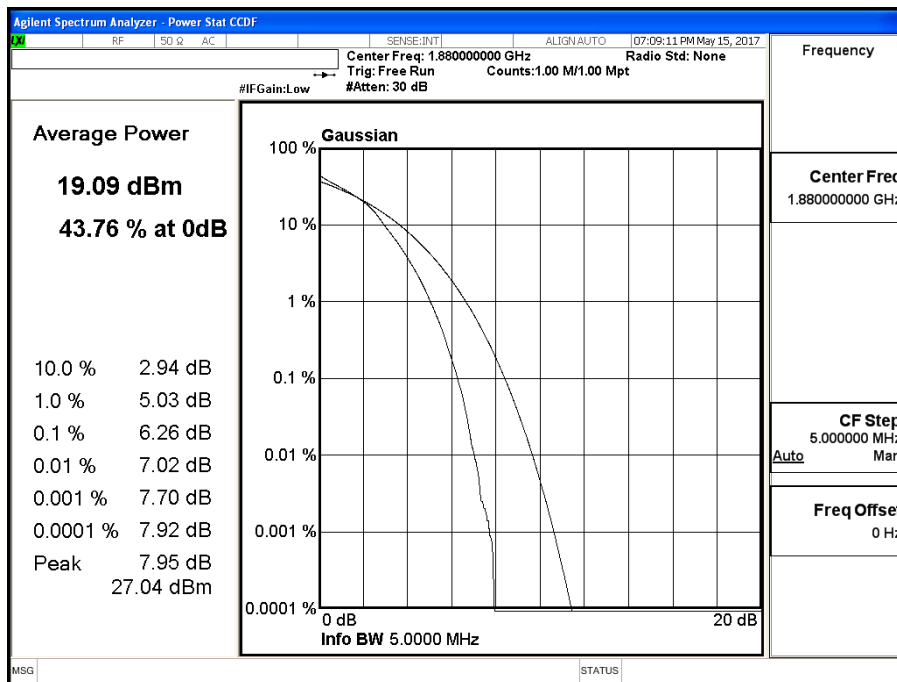
Band 2 (1.4M) 16QAM



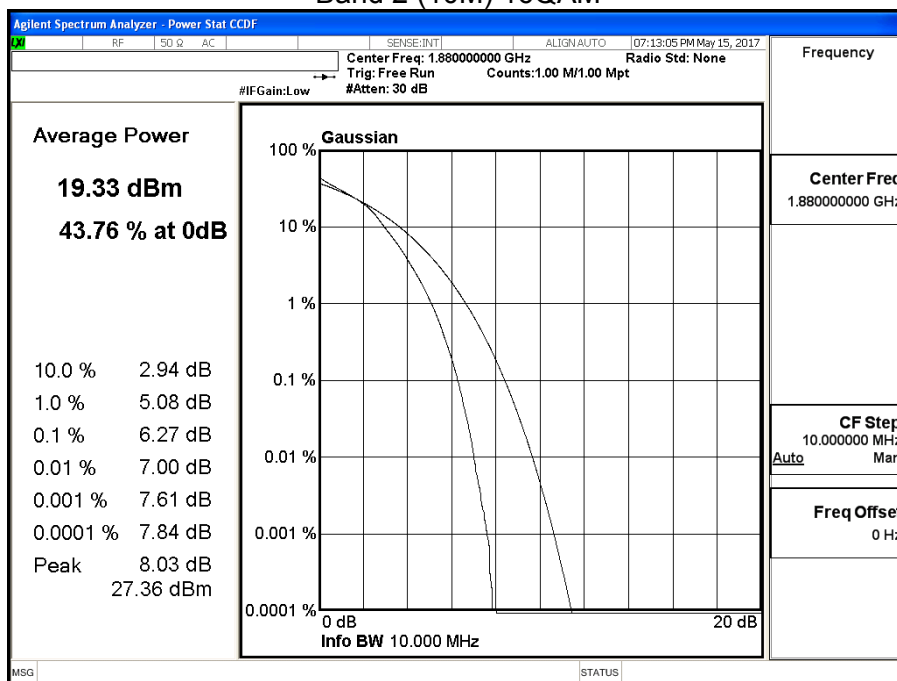
Band 2 (3M) 16QAM



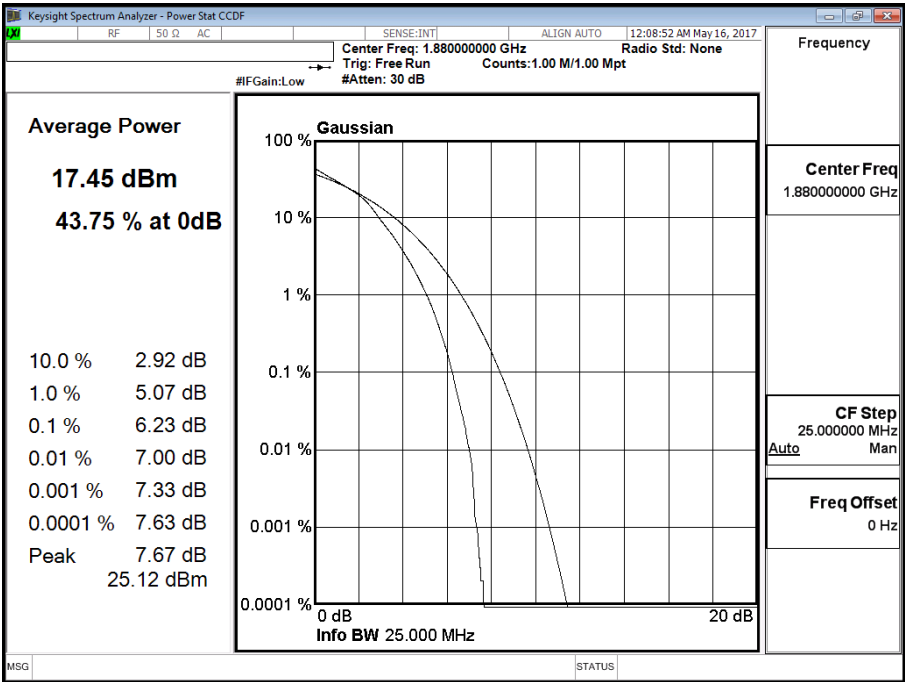
Band 2 (5M) 16QAM



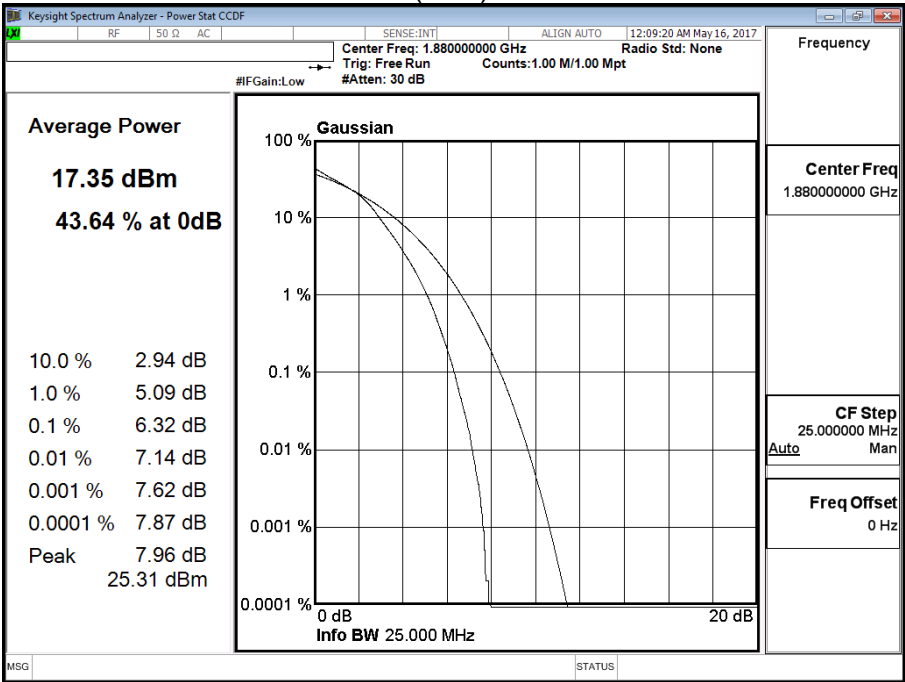
Band 2 (10M) 16QAM



Band 2 (15M) 16QAM

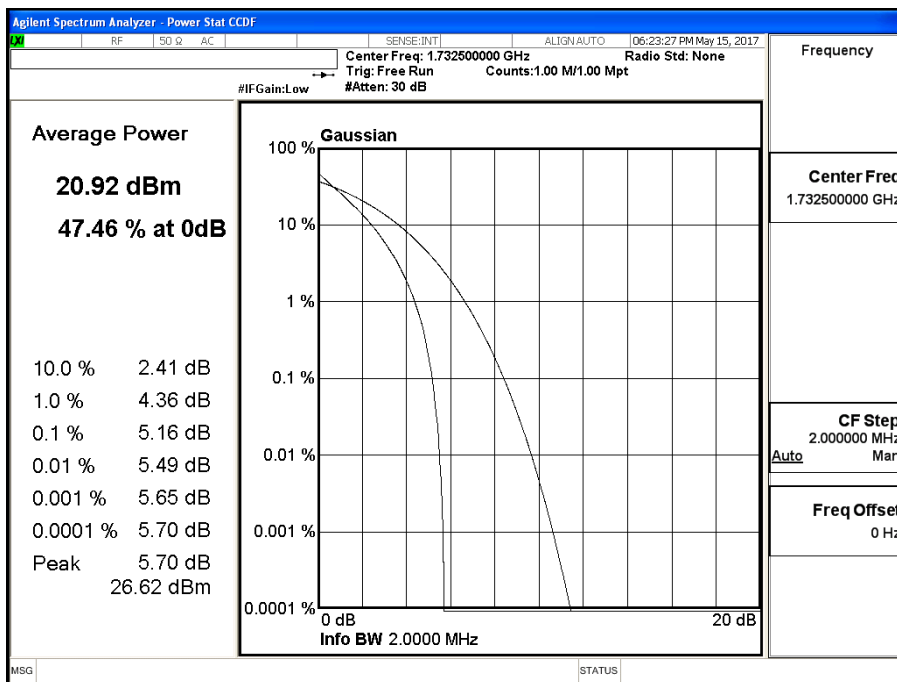


Band 2 (20M) 16QAM

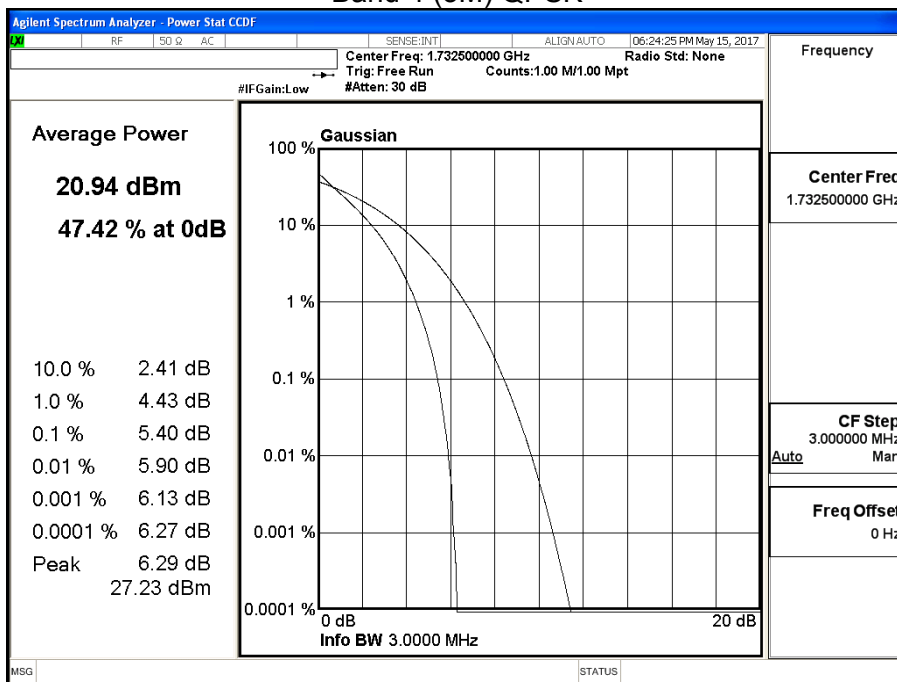


Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Peak to Average Ratio		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	LTE-Band 4		

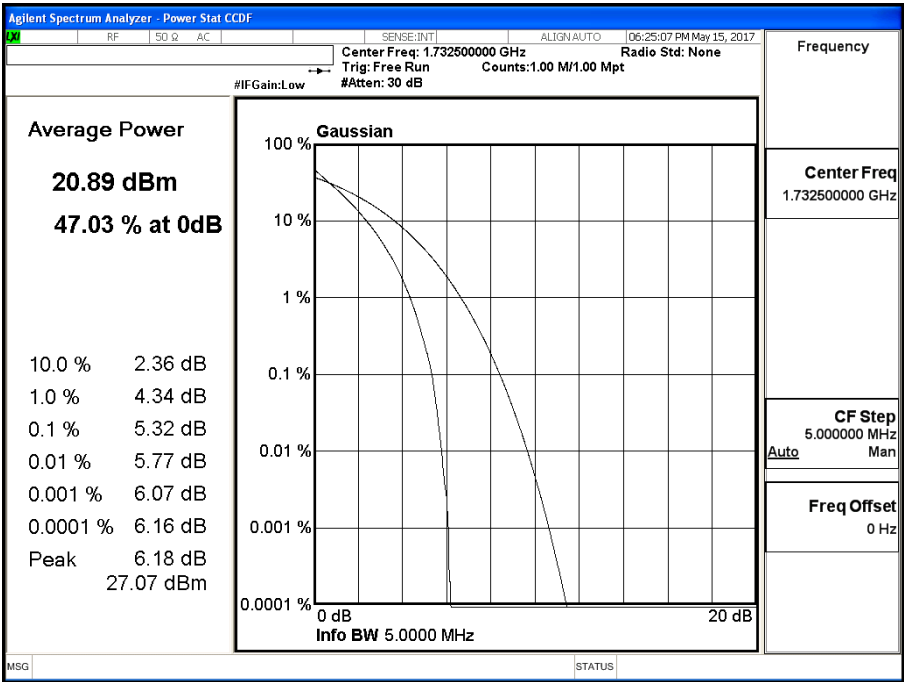
Band 4 (1.4M) QPSK



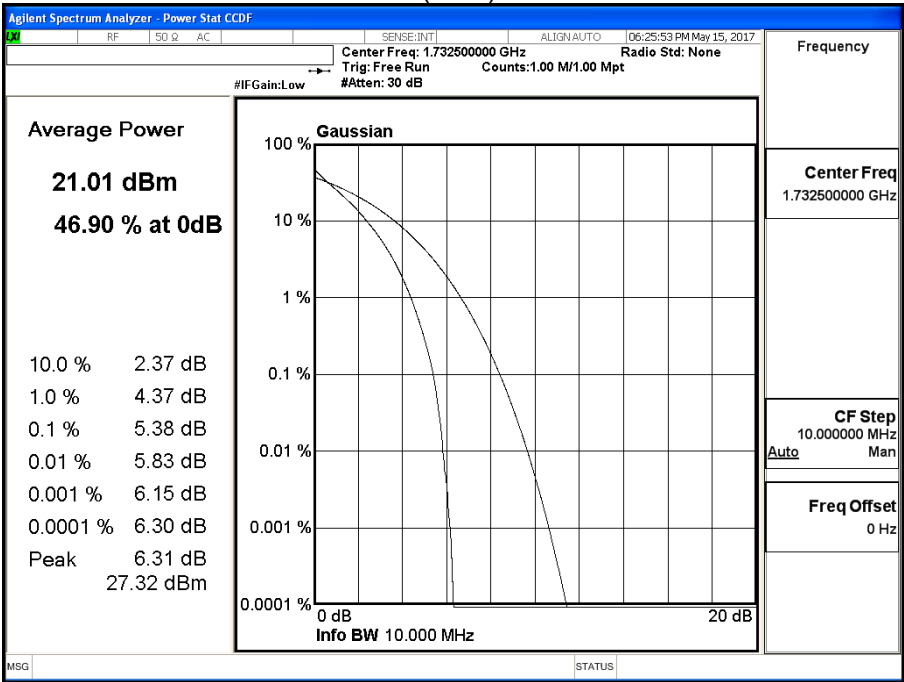
Band 4 (3M) QPSK



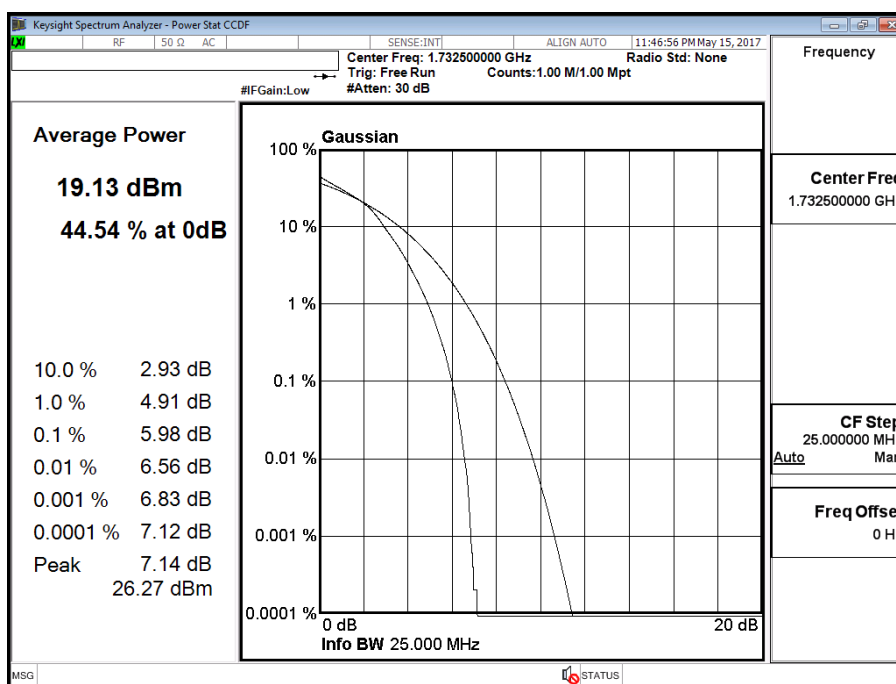
Band 4 (5M) QPSK



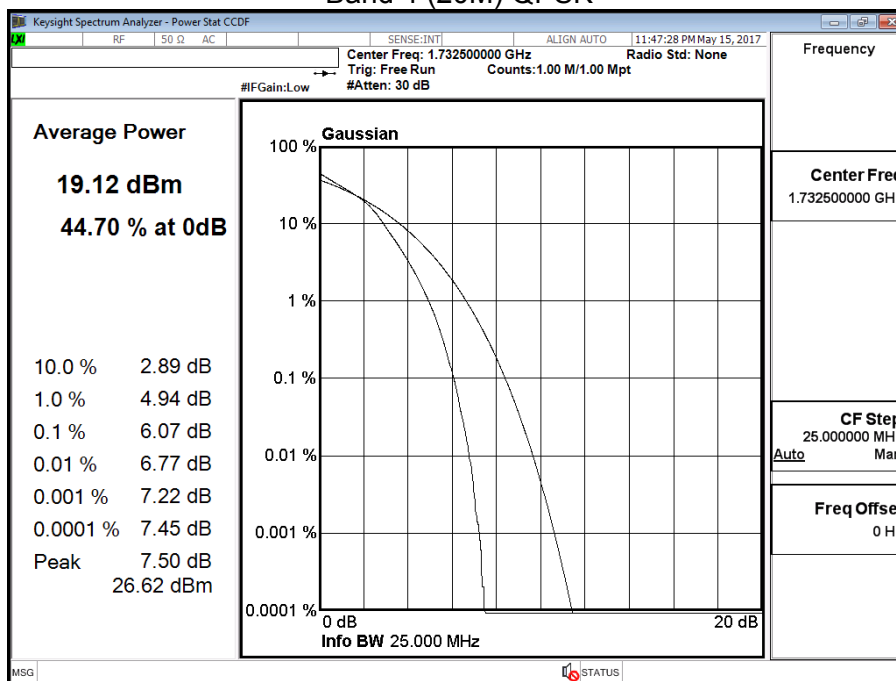
Band 4 (10M) QPSK



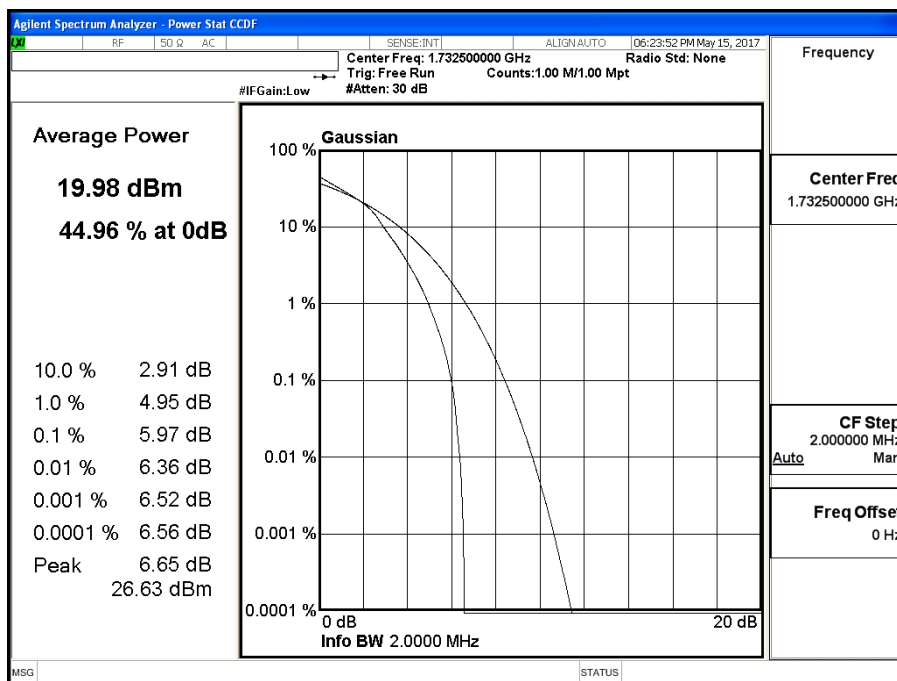
Band 4 (15M) QPSK



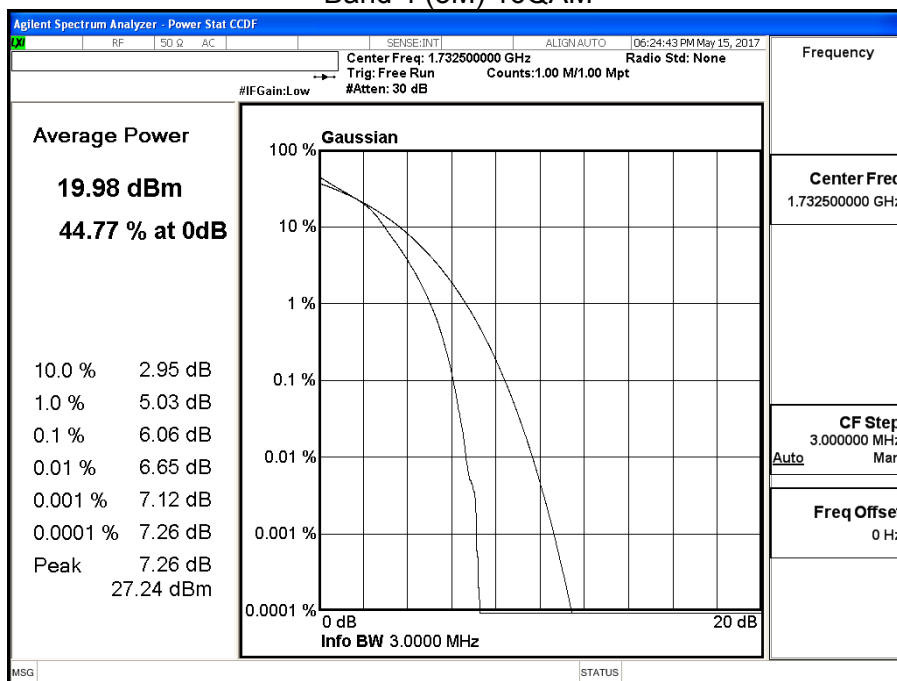
Band 4 (20M) QPSK



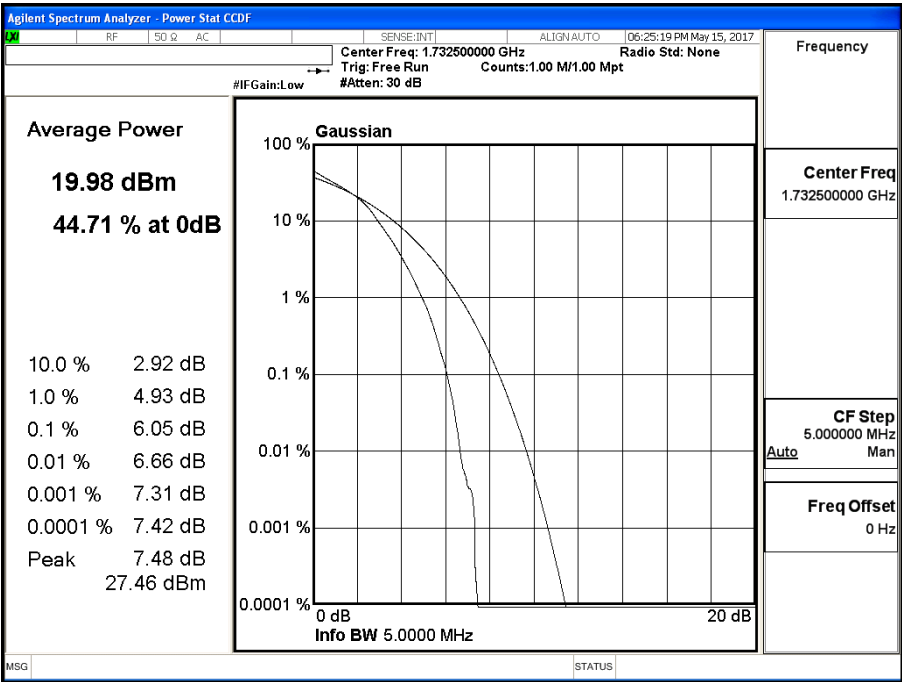
Band 4 (1.4M) 16QAM



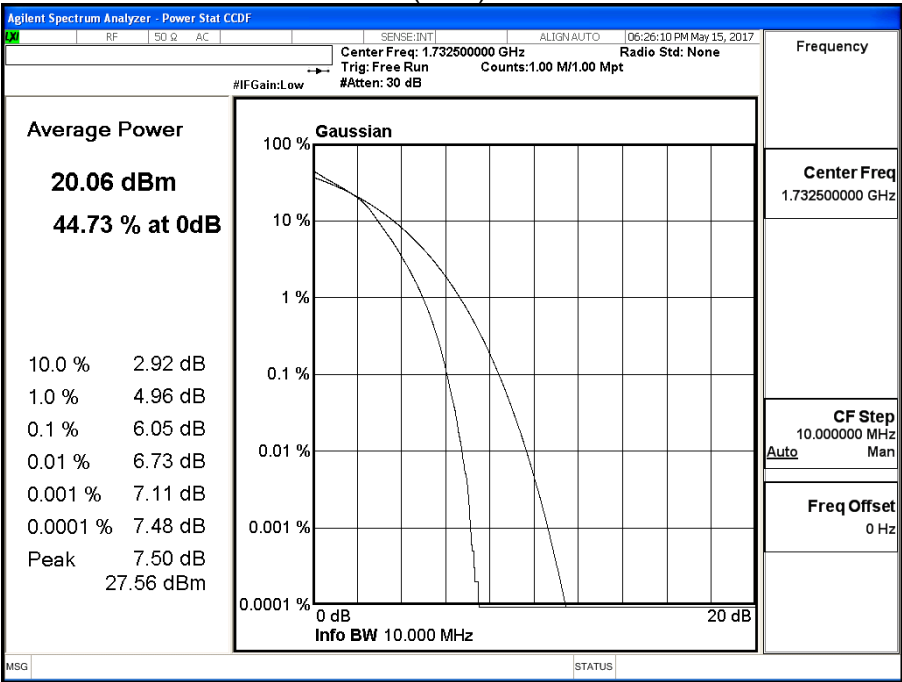
Band 4 (3M) 16QAM



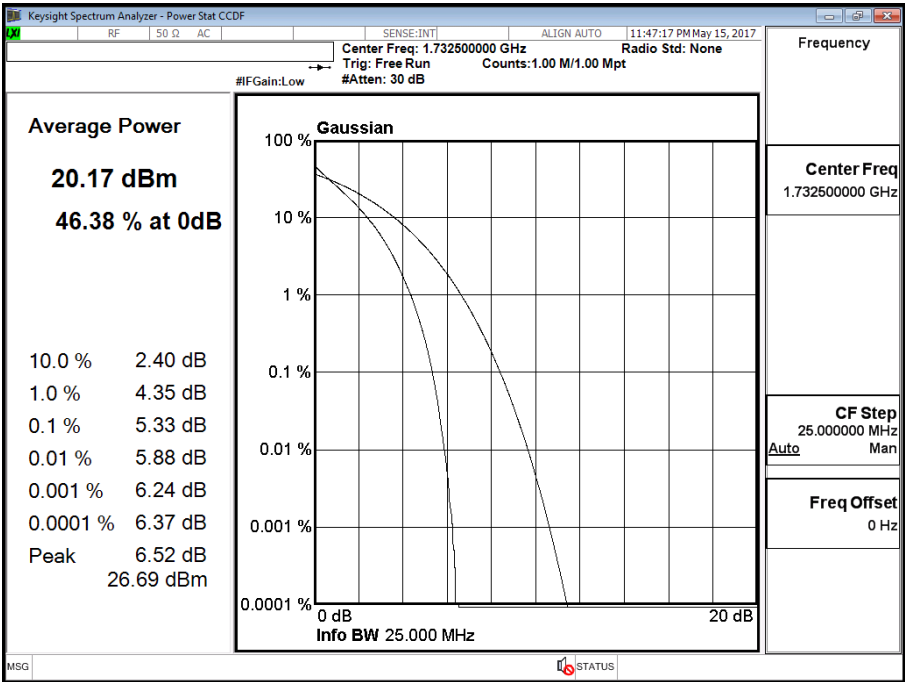
Band 4 (5M) 16QAM



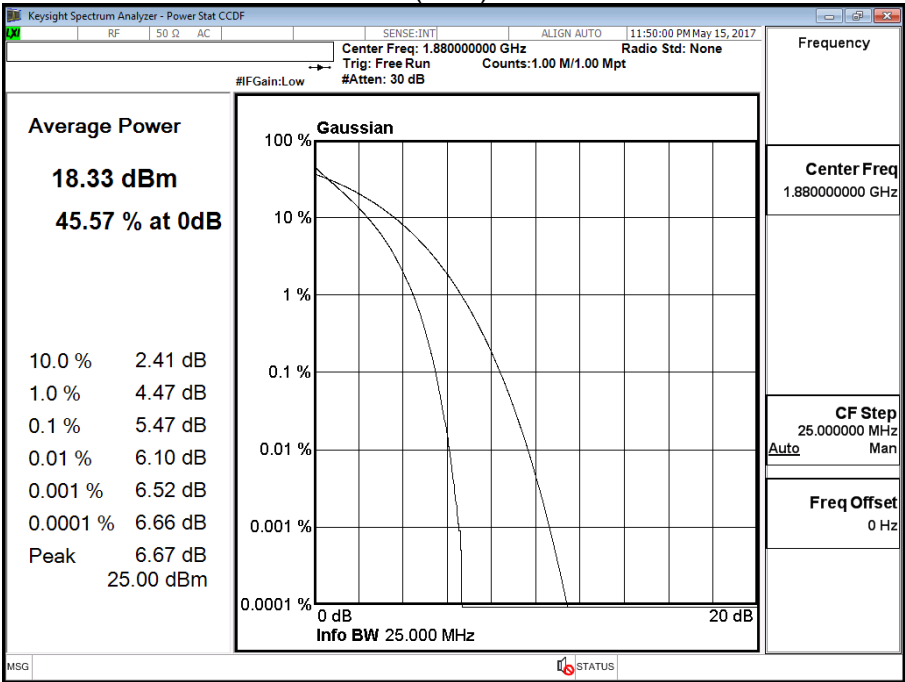
Band 4 (10M) 16QAM



Band 4 (15M) 16QAM

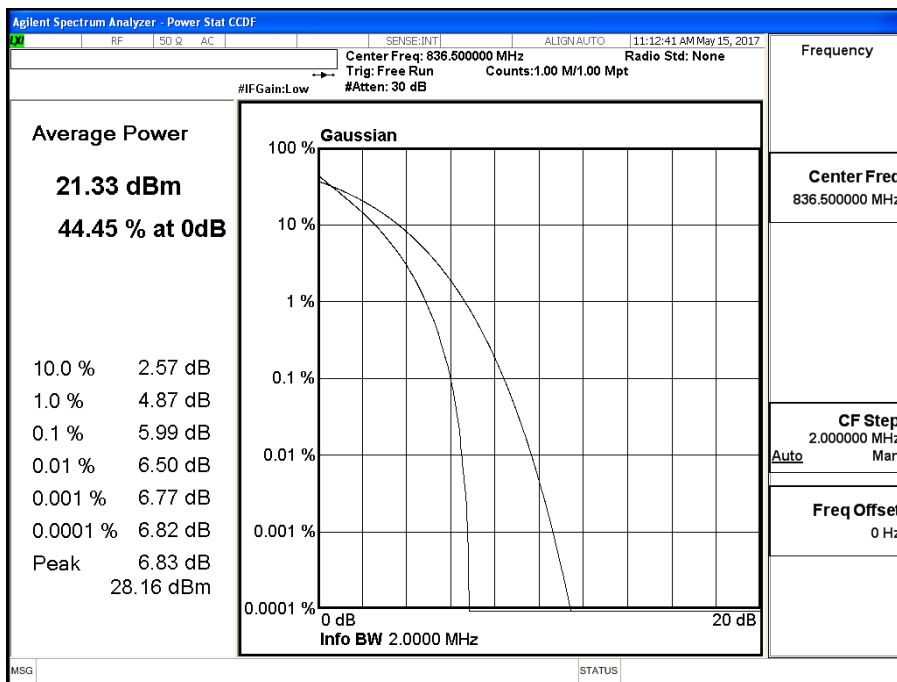


Band 4 (20M) 16QAM

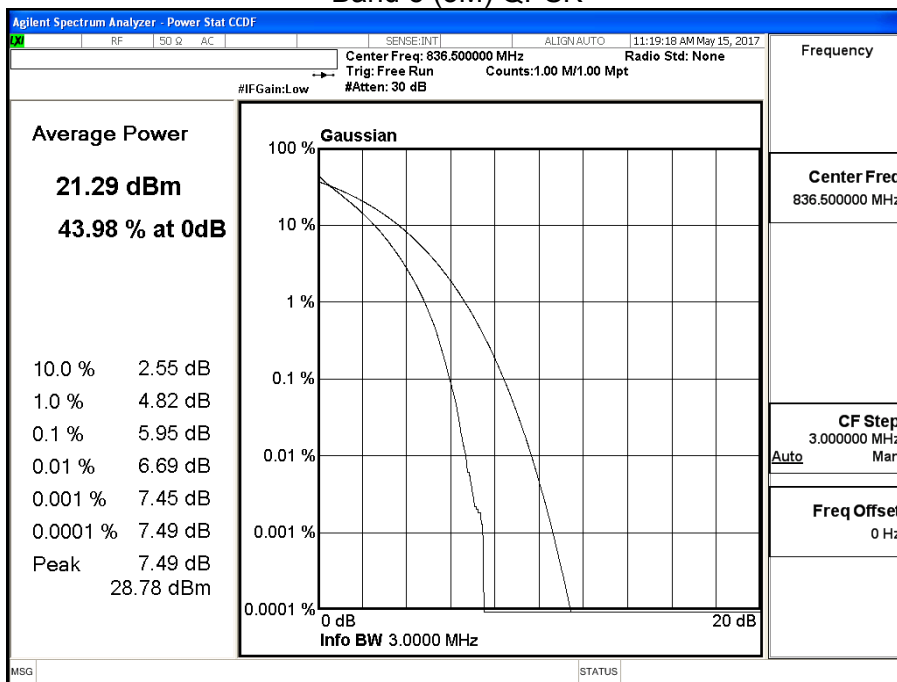


Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Peak to Average Ratio		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	LTE-Band 5		

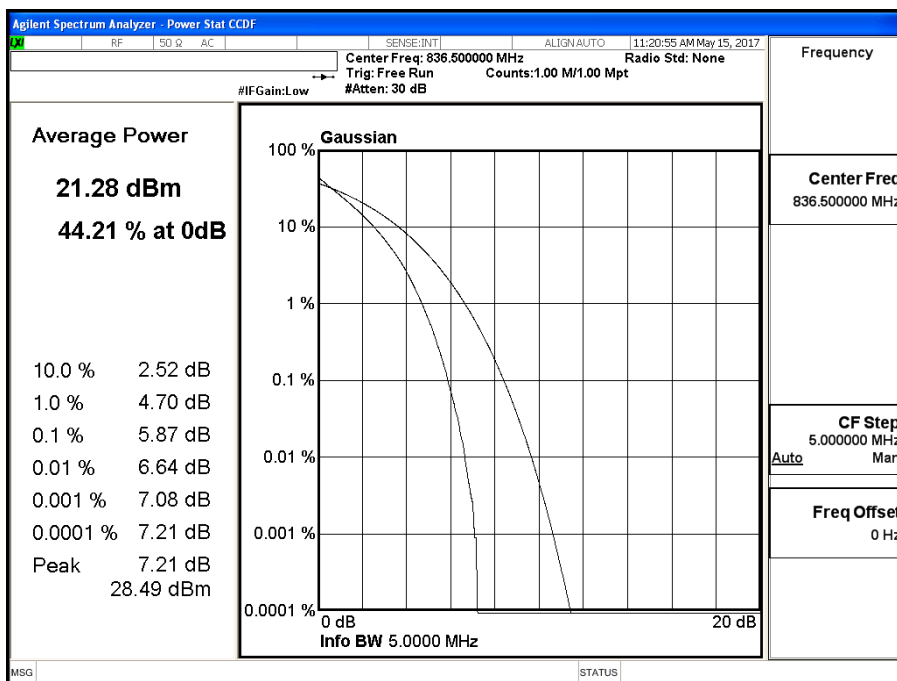
Band 5 (1.4M) QPSK



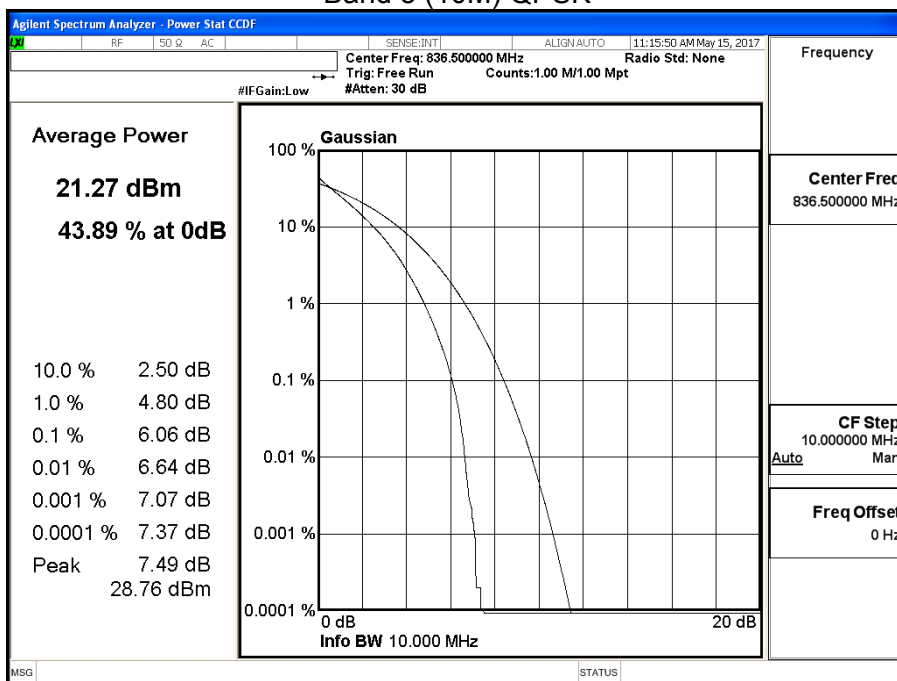
Band 5 (3M) QPSK



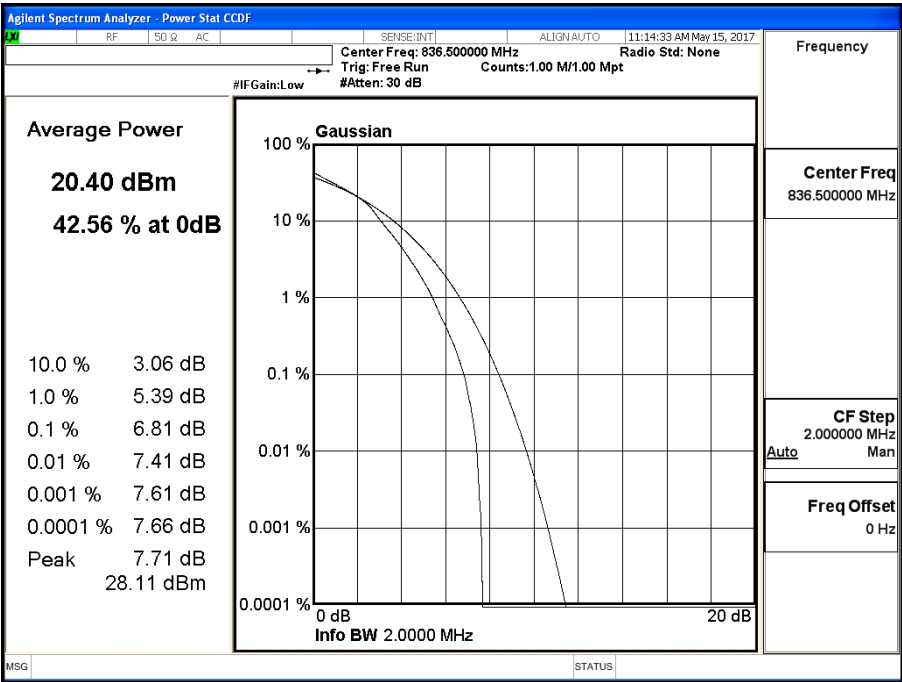
Band 5 (5M) QPSK



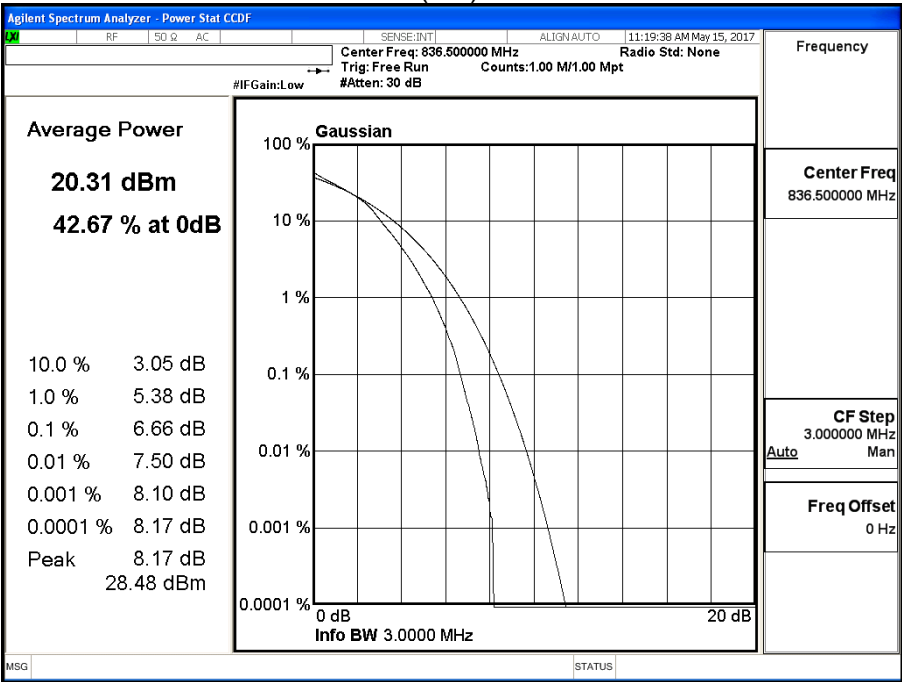
Band 5 (10M) QPSK



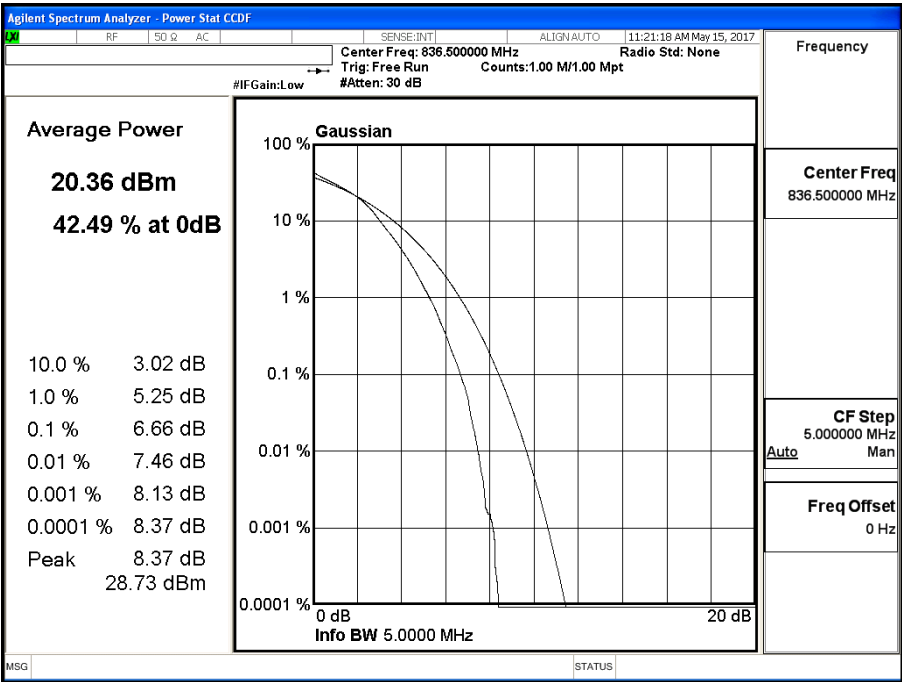
Band 5 (1.4M) 16QAM



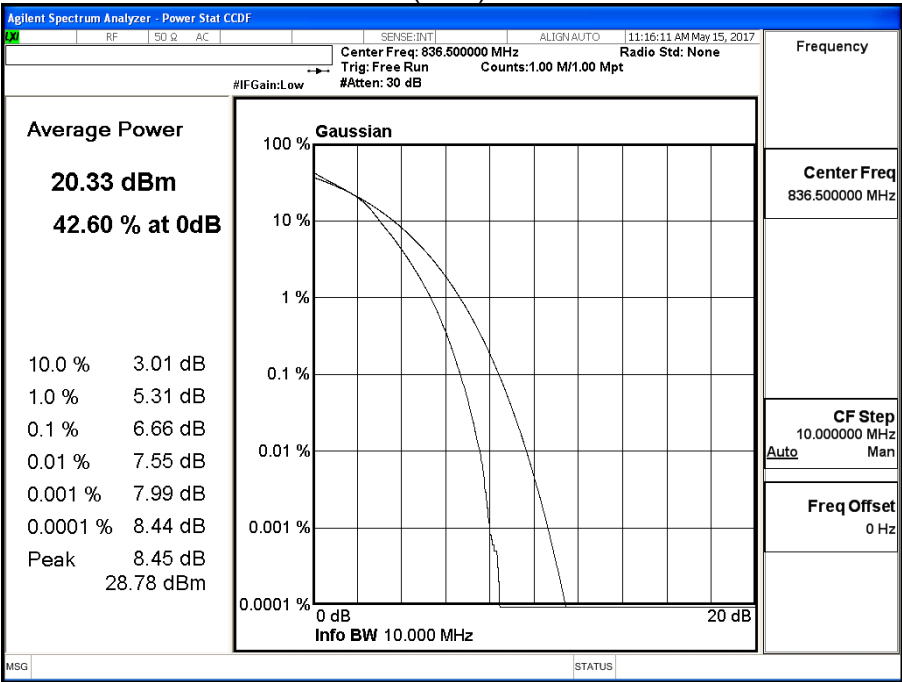
Band 5 (3M) 16QAM



Band 5 (5M) 16QAM

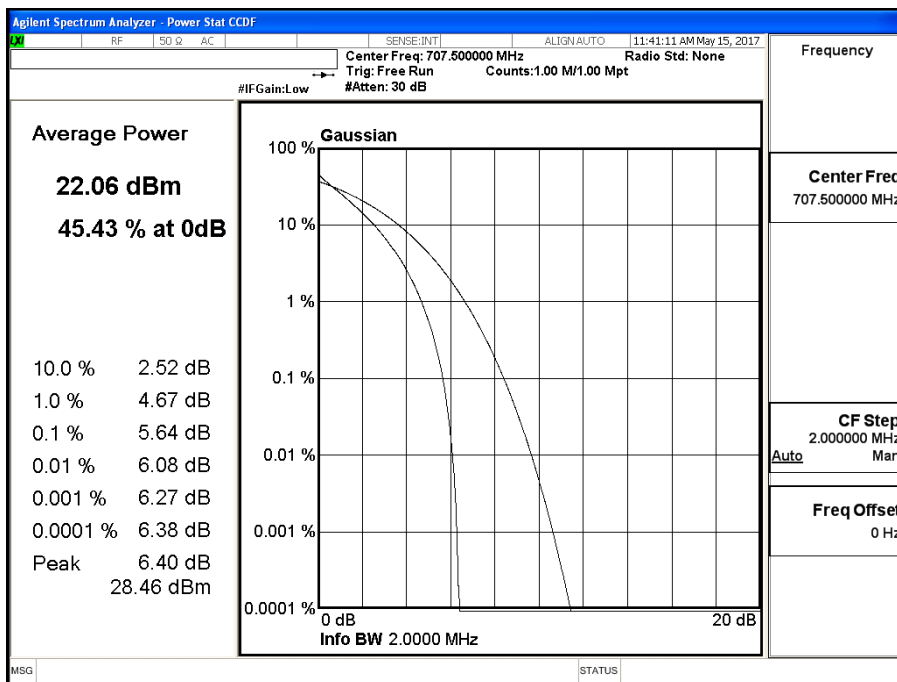


Band 5 (10M) 16QAM

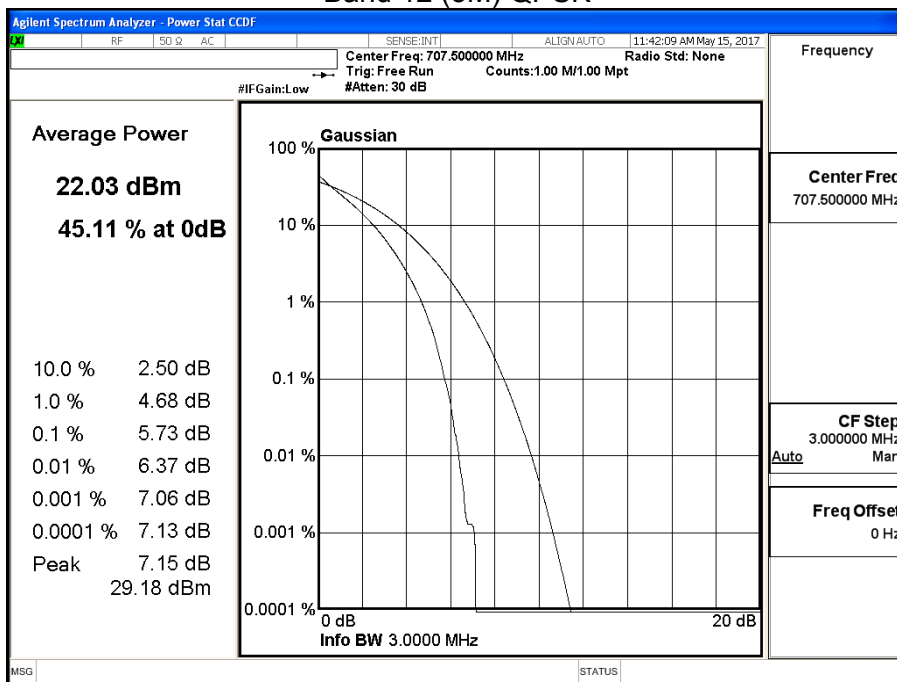


Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Peak to Average Ratio		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	LTE-Band 12		

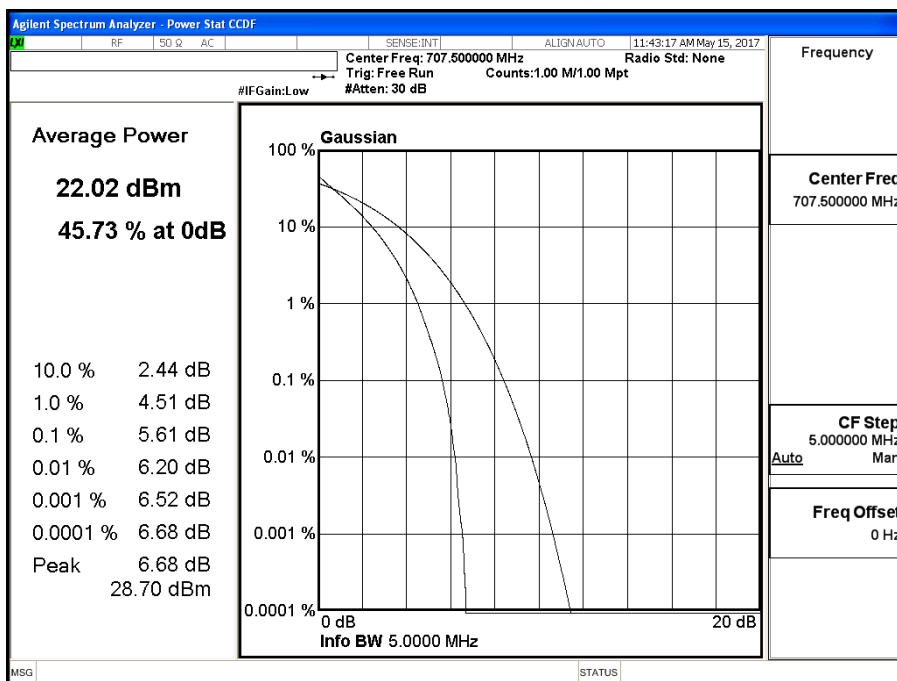
Band 12 (1.4M) QPSK



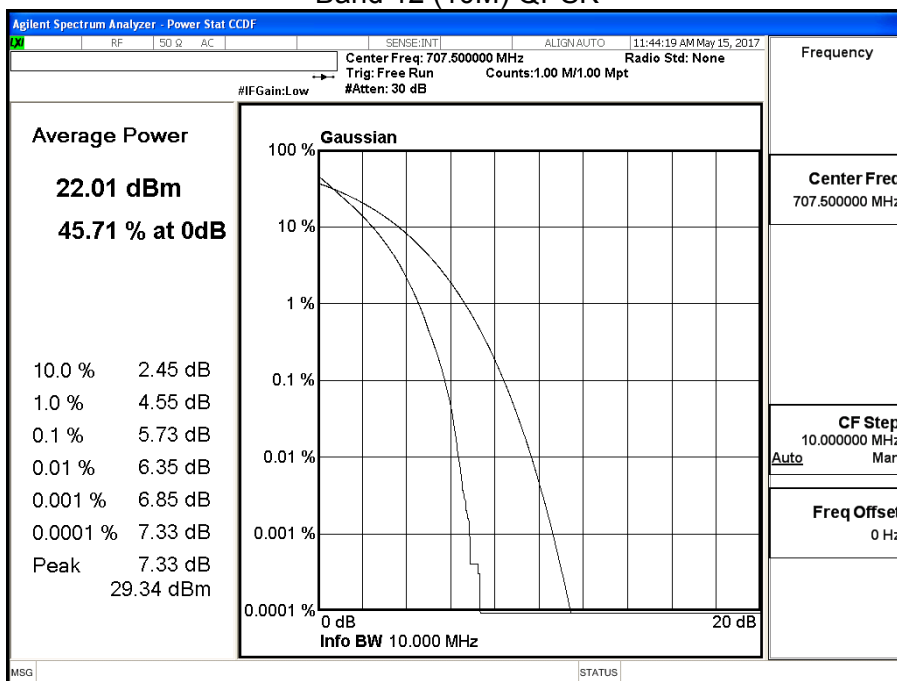
Band 12 (3M) QPSK



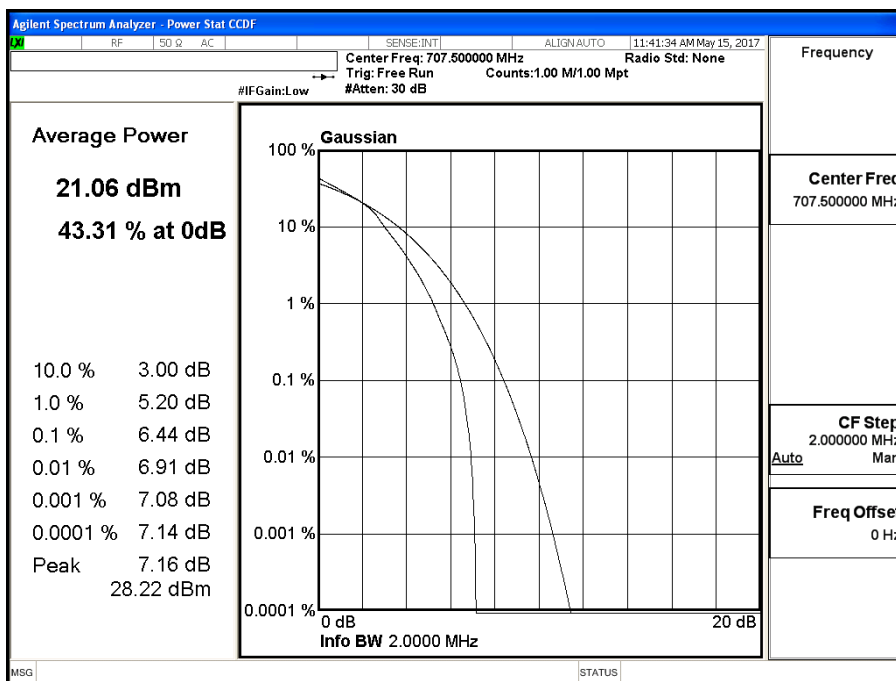
Band 12 (5M) QPSK



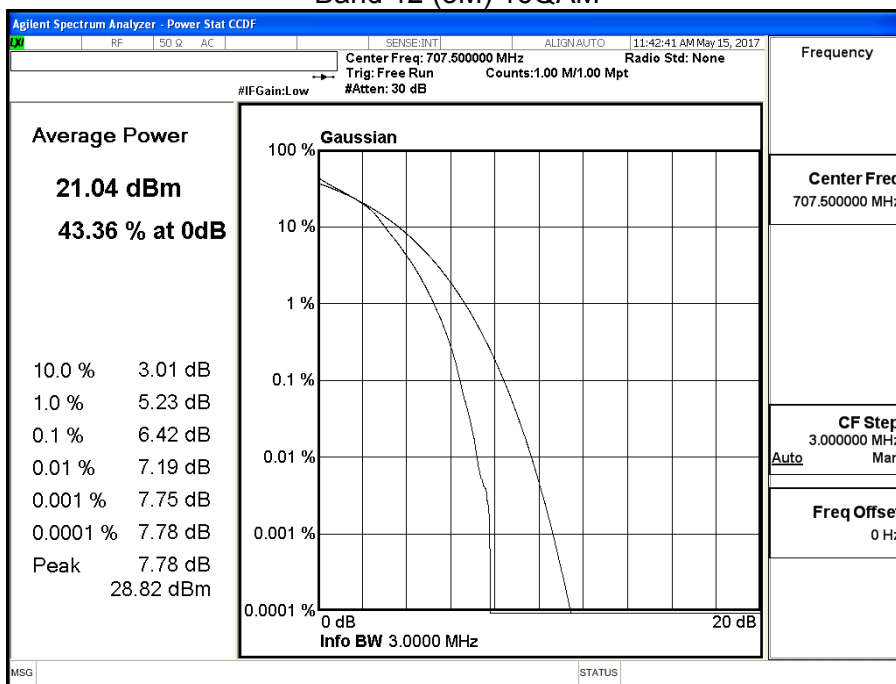
Band 12 (10M) QPSK



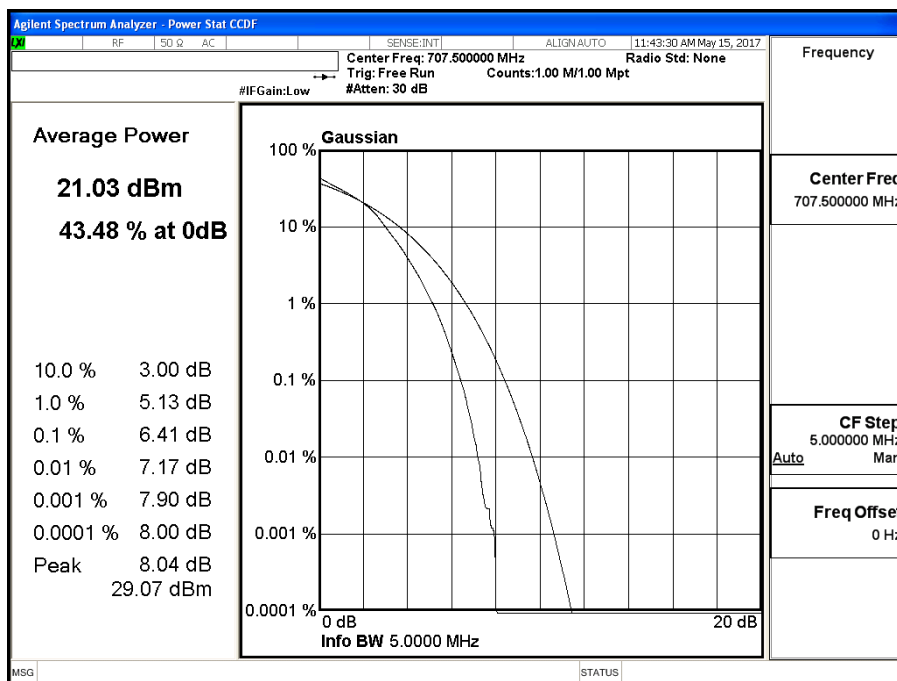
Band 12 (1.4M) 16QAM



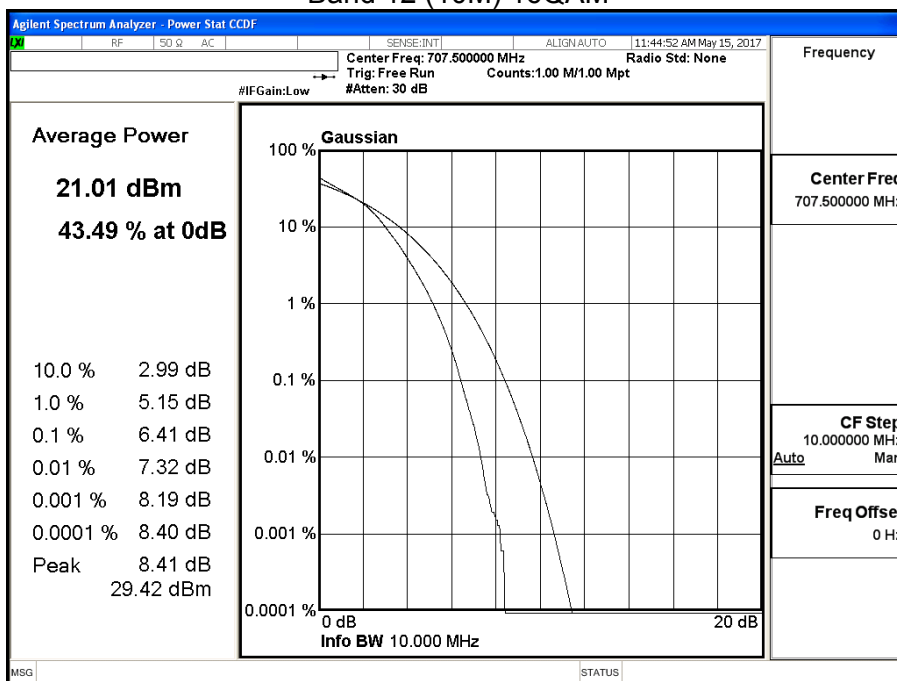
Band 12 (3M) 16QAM



Band 12 (5M) 16QAM

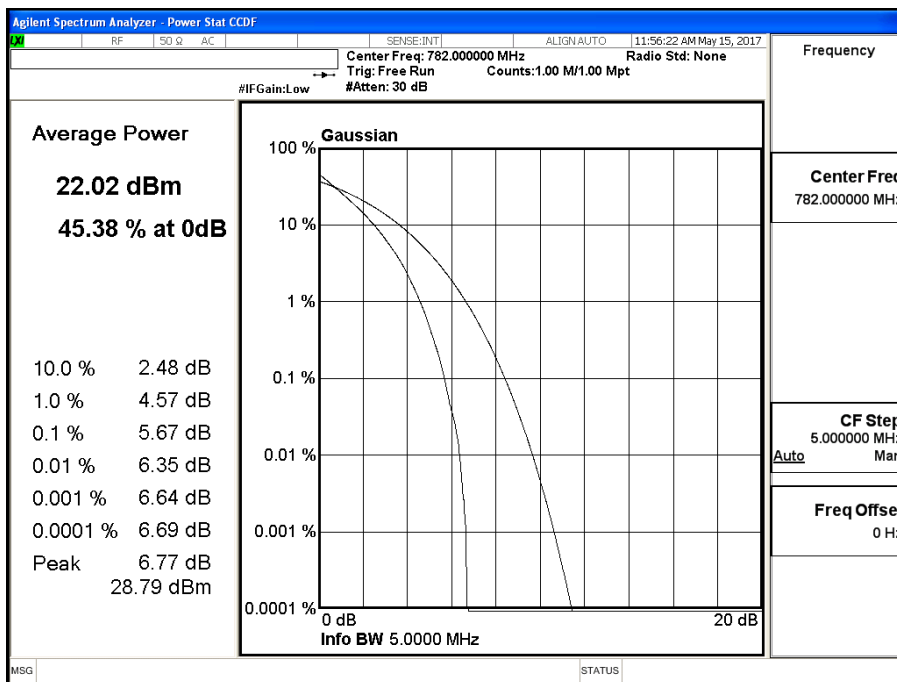


Band 12 (10M) 16QAM

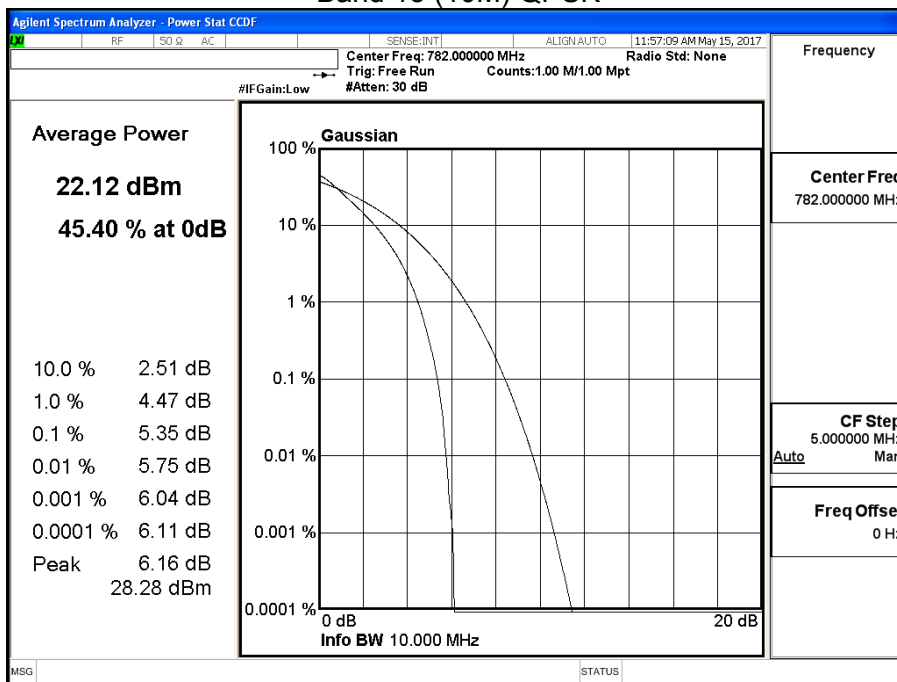


Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Peak to Average Ratio		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	LTE-Band 13		

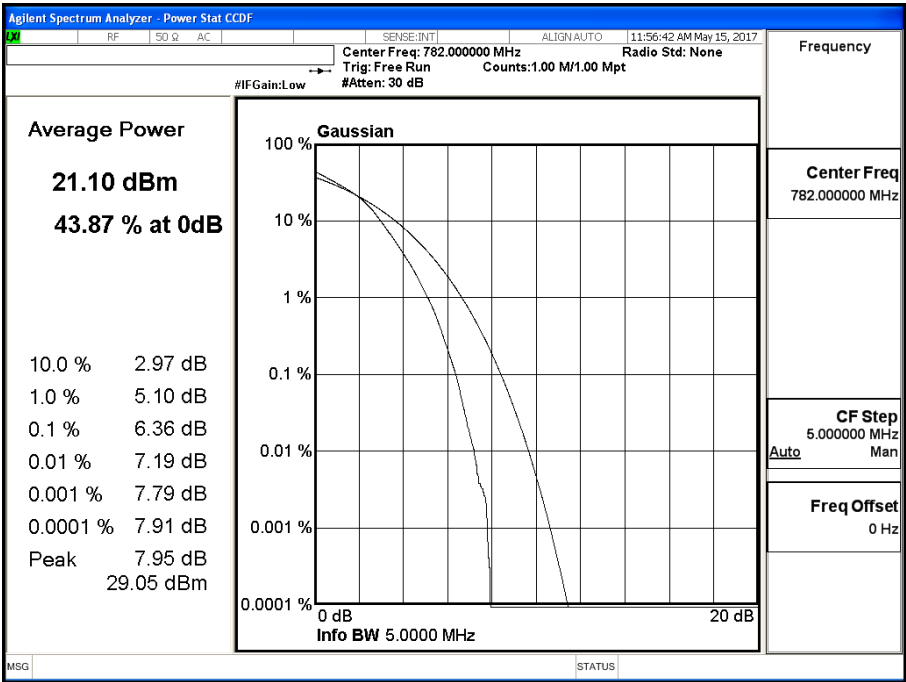
Band 13 (5M) QPSK



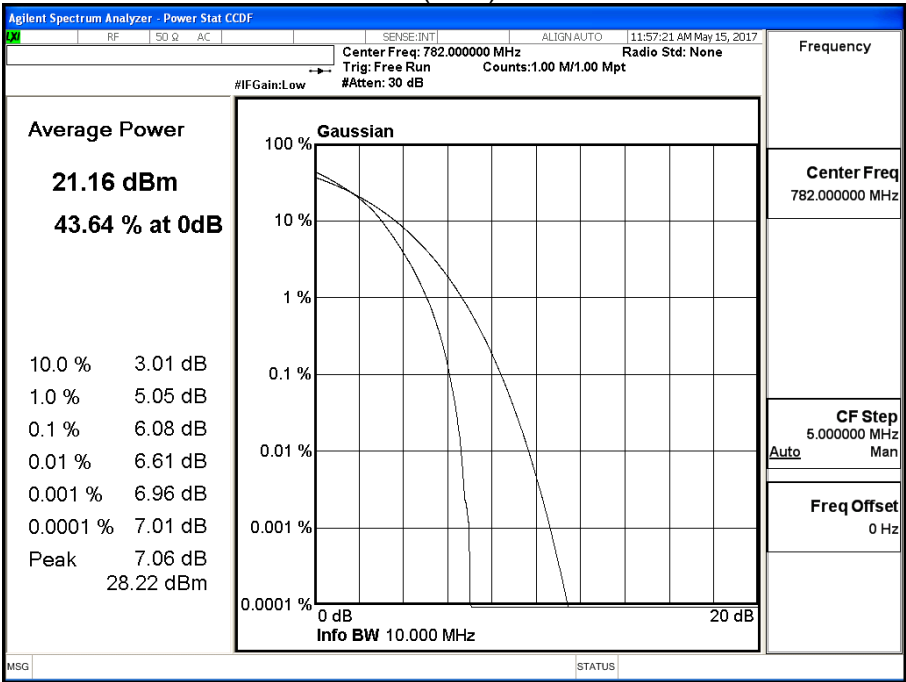
Band 13 (10M) QPSK



Band 13 (5M) 16QAM



Band 13 (10M) 16QAM



Attachment 1: EUT Test Photographs

Attachment 2: EUT Detailed Photographs