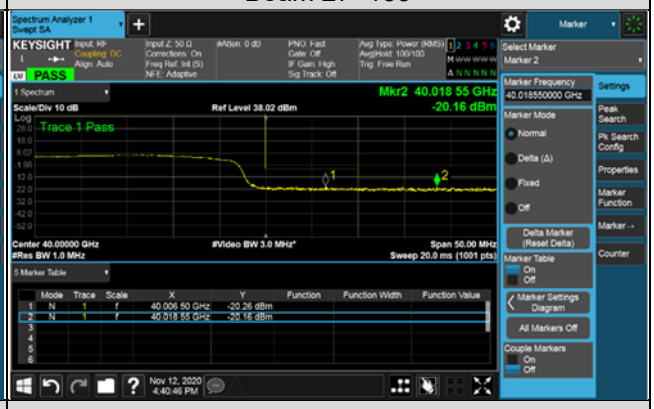
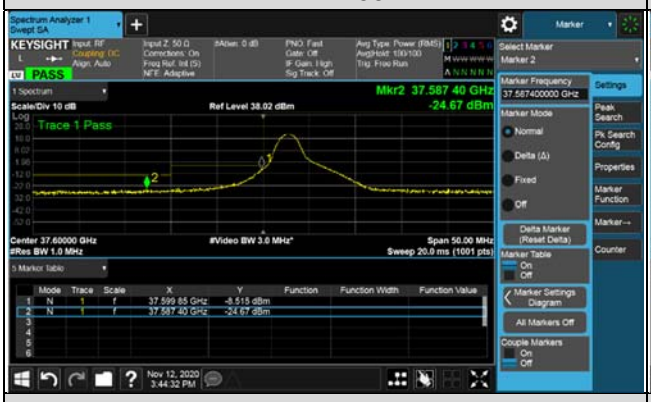
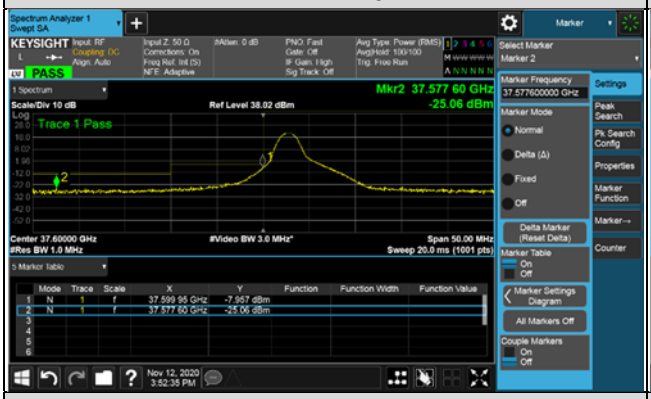
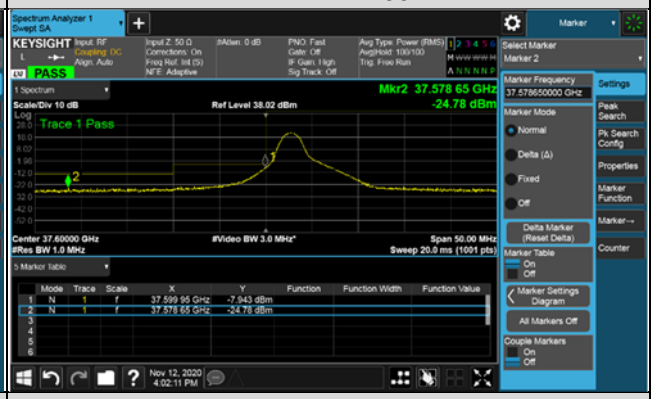
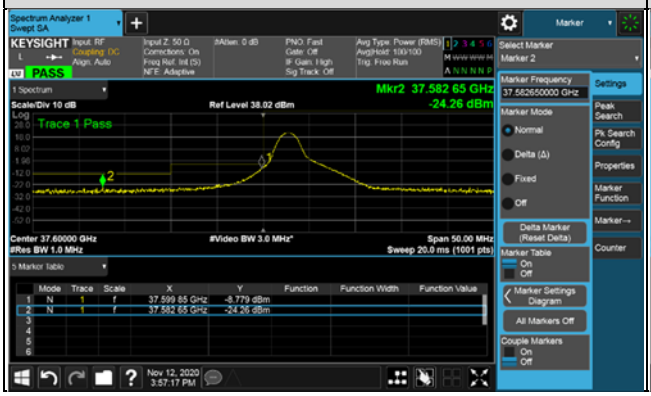
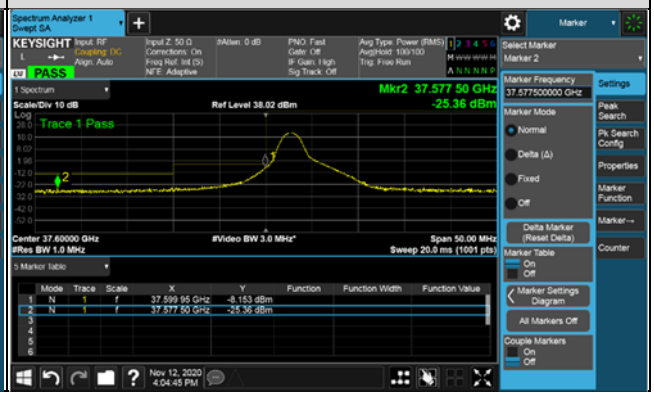
Beam 166	Beam 35
	
Beam 170	**Beam 27+155**
	
Beam 20+148	**Beam 42+170**
	

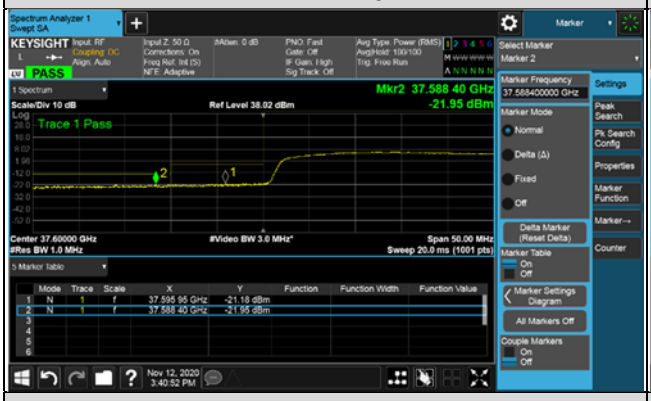
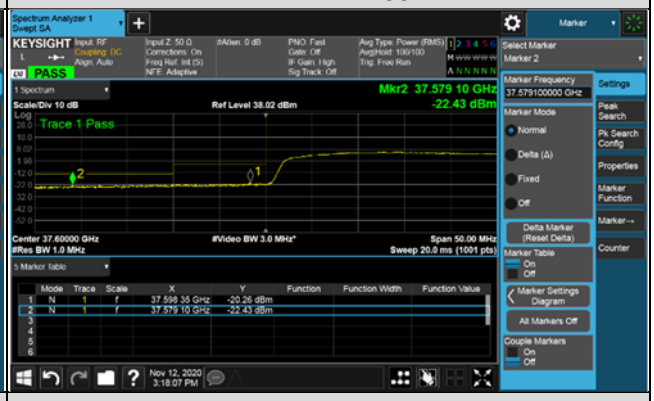
Note: The test results already include the correction factor (corrections: On).

Band	n260				
Low Channel	2240001+2241671				
QPSK-2CC	1RB0				
Beam ID	Frequency (GHz)	EIRP Value (dBm)	Limit (dBm)	Margin (dB)	Result
155	37.59985	-8.52	-5.00	-3.52	Pass
	37.5874	-24.67	-13.00	-11.67	Pass
161	37.5999	-8.45	-5.00	-3.45	Pass
	37.58625	-25.22	-13.00	-12.22	Pass
170	37.59995	-7.96	-5.00	-2.96	Pass
	37.5776	-25.06	-13.00	-12.06	Pass
27+155	37.59995	-7.94	-5.00	-2.94	Pass
	37.57865	-24.78	-13.00	-11.78	Pass
20+148	37.59985	-8.78	-5.00	-3.78	Pass
	37.58265	-24.26	-13.00	-11.26	Pass
42+170	37.59995	-8.15	-5.00	-3.15	Pass
	37.5775	-25.36	-13.00	-12.36	Pass

Beam 155	Beam 161
	
Beam 170	Beam 27+155
	
Beam 20+148	Beam 42+170
	

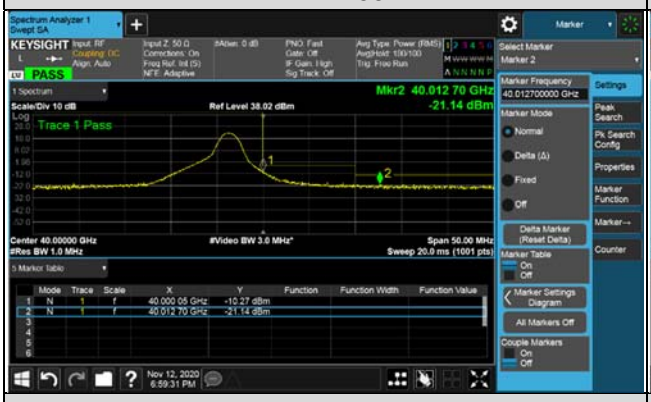
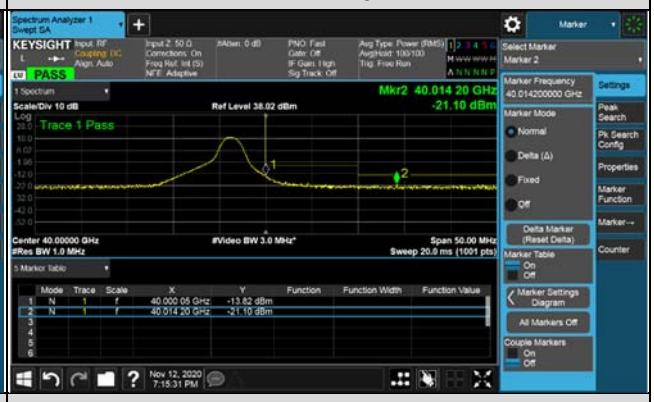
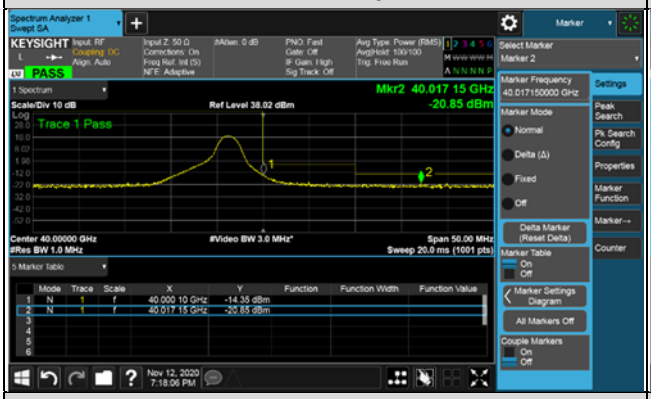
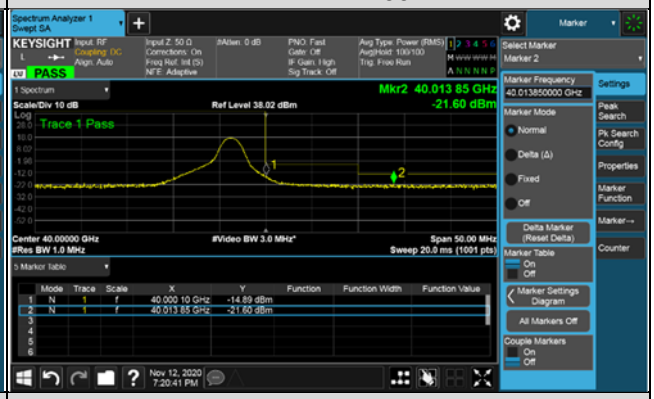
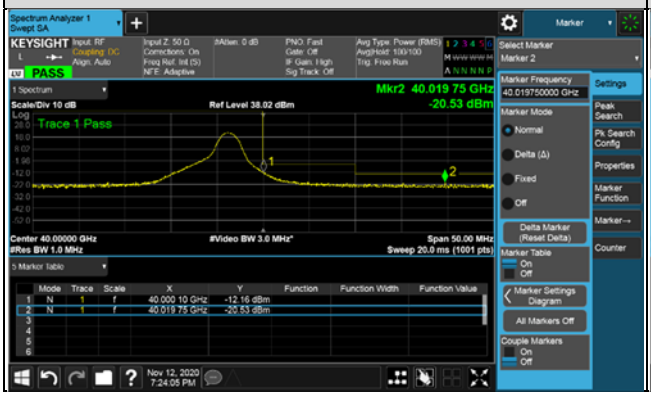
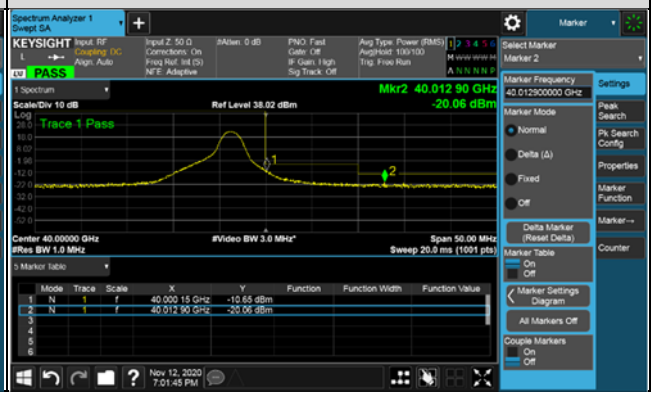
Note: The test results already include the correction factor (corrections: On).

Band	n260				
Low Channel	2240001+2241671				
QPSK-2CC	Full RB				
Beam ID	Frequency (GHz)	EIRP Value (dBm)	Limit (dBm)	Margin (dB)	Result
155	37.5945	-20.64	-5.00	-15.64	Pass
	37.5874	-21.56	-13.00	-8.56	Pass
161	37.59755	-20.72	-5.00	-15.72	Pass
	37.5881	-22.00	-13.00	-9.00	Pass
170	37.59595	-21.18	-5.00	-16.18	Pass
	37.5884	-21.95	-13.00	-8.95	Pass
27+155	37.59835	-20.26	-5.00	-15.26	Pass
	37.5791	-22.43	-13.00	-9.43	Pass
20+148	37.59835	-20.60	-5.00	-15.60	Pass
	37.58795	-22.50	-13.00	-9.50	Pass
42+170	37.59465	-20.69	-5.00	-15.69	Pass
	37.5882	-21.88	-13.00	-8.88	Pass

Beam 155	Beam 161
	
Beam 170	**Beam 27+155**
	
Beam 20+148	**Beam 42+170**
	

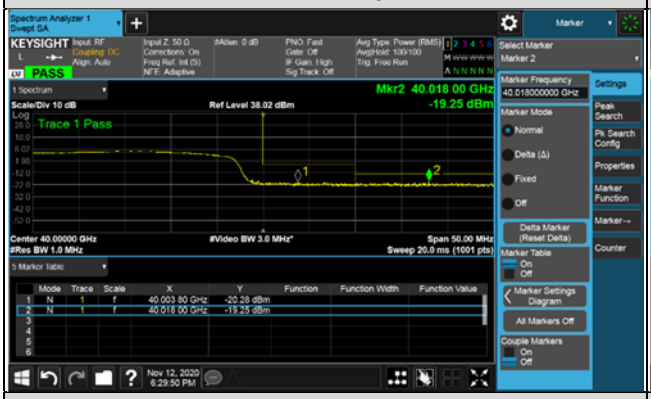
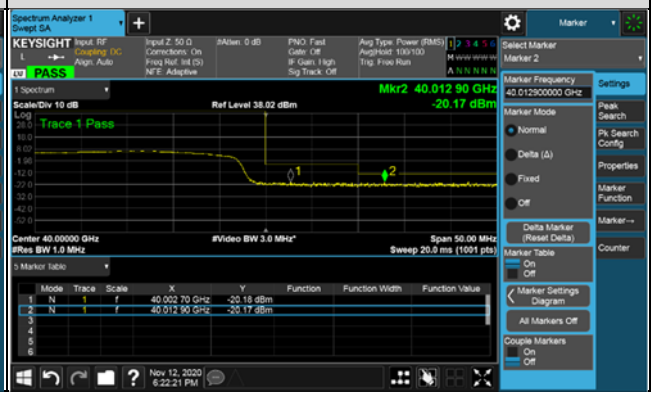
Note: The test results already include the correction factor (corrections: On).

Band	n260				
High Channel	2276663+2278331				
QPSK-2CC	1RB65				
Beam ID	Frequency (GHz)	EIRP Value (dBm)	Limit (dBm)	Margin (dB)	Result
155	40.00005	-10.27	-5.00	-5.27	Pass
	40.0127	-21.14	-13.00	-8.14	Pass
161	40.00005	-13.82	-5.00	-8.82	Pass
	40.0142	-21.10	-13.00	-8.10	Pass
170	40.0001	-14.35	-5.00	-9.35	Pass
	40.01715	-20.85	-13.00	-7.85	Pass
27+155	40.0001	-14.89	-5.00	-9.89	Pass
	40.01385	-21.60	-13.00	-8.60	Pass
20+148	40.0001	-12.16	-5.00	-7.16	Pass
	40.01975	-20.53	-13.00	-7.53	Pass
42+170	40.00015	-10.65	-5.00	-5.65	Pass
	40.0129	-20.06	-13.00	-7.06	Pass

Beam 155	Beam 161
	
Beam 170	**Beam 27+155**
	
Beam 20+148	**Beam 42+170**
	

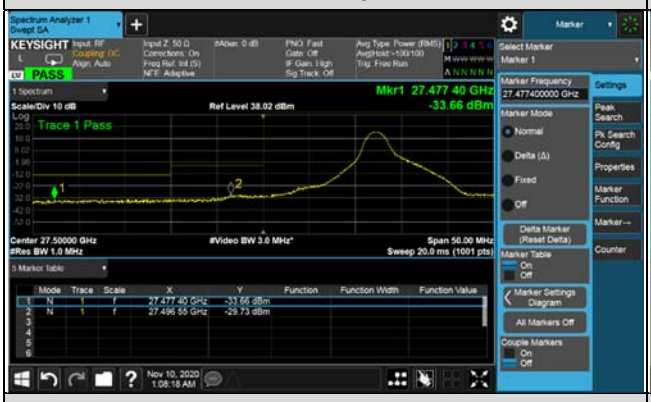
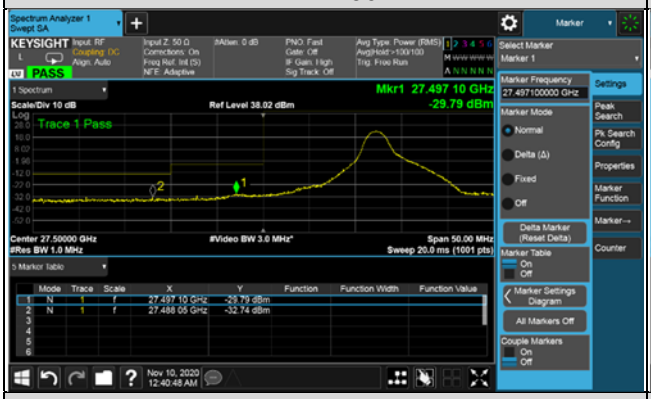
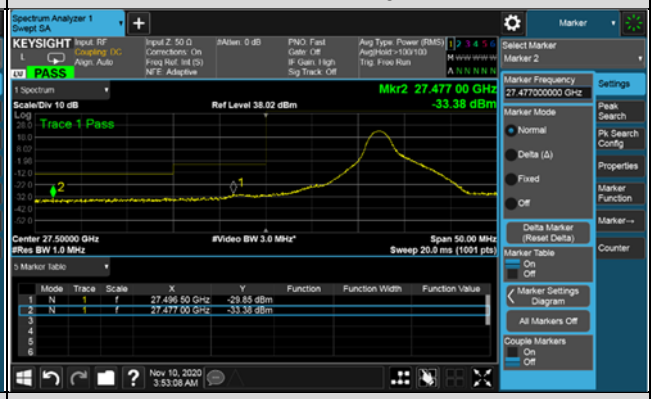
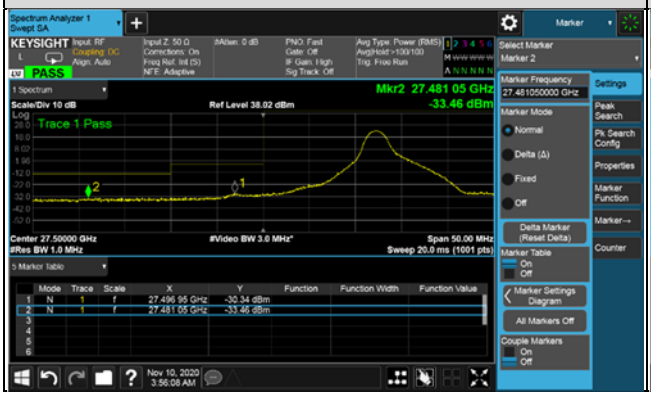
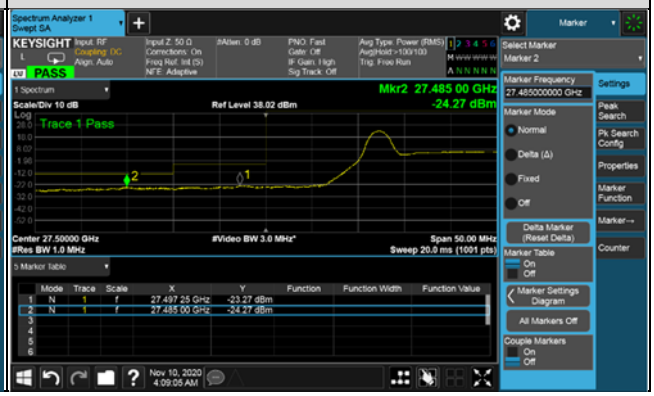
Note: The test results already include the correction factor (corrections: On).

Band	n260				
High Channel	2276663+2278331				
QPSK-2CC	Full RB				
Beam ID	Frequency (GHz)	EIRP Value (dBm)	Limit (dBm)	Margin (dB)	Result
155	40.00235	-19.15	-5.00	-14.15	Pass
	40.0236	-19.97	-13.00	-6.97	Pass
161	40.002	-20.07	-5.00	-15.07	Pass
	40.0216	-20.73	-13.00	-7.73	Pass
170	40.0038	-20.28	-5.00	-15.28	Pass
	40.018	-19.25	-13.00	-6.25	Pass
27+155	40.0011	-19.33	-5.00	-14.33	Pass
	40.0188	-20.29	-13.00	-7.29	Pass
20+148	40.0042	-20.30	-5.00	-15.30	Pass
	40.01265	-19.39	-13.00	-6.39	Pass
42+170	40.0027	-20.18	-5.00	-15.18	Pass
	40.0129	-20.17	-13.00	-7.17	Pass

Beam 155	Beam 161
	
Beam 170	**Beam 27+155**
	
Beam 20+148	**Beam 42+170**
	

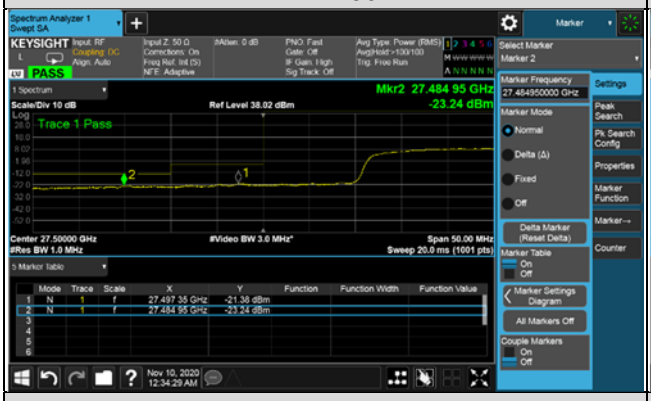
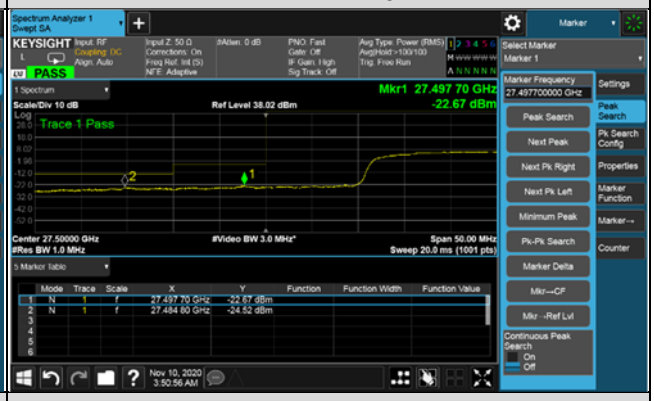
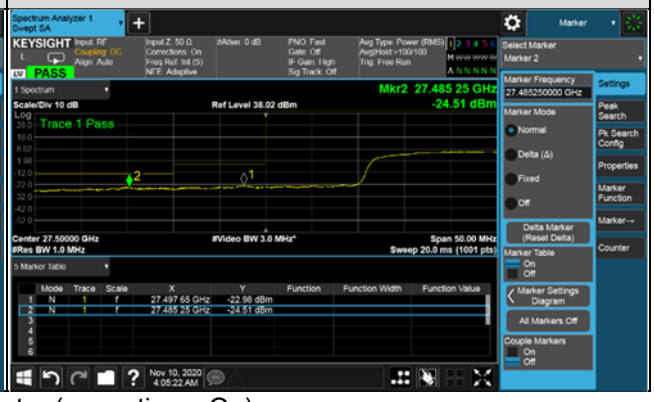
Note: The test results already include the correction factor (corrections: On).

Band	n261				
Low Channel	2071821				
QPSK-1CC	1RB0				
Beam ID	Frequency (GHz)	EIRP Value (dBm)	Limit (dBm)	Margin (dB)	Result
167	27.4774	-33.66	-5.00	-28.66	Pass
	27.49655	-29.73	-13.00	-16.73	Pass
162	27.4815	-33.04	-5.00	-28.04	Pass
	27.49705	-29.72	-13.00	-16.72	Pass
30	27.4971	-29.79	-5.00	-24.79	Pass
	27.48805	-32.74	-13.00	-19.74	Pass
24+167	27.4965	-29.85	-5.00	-24.85	Pass
	27.477	-33.38	-13.00	-20.38	Pass
34+162	27.49695	-30.34	-5.00	-25.34	Pass
	27.48105	-33.46	-13.00	-20.46	Pass
30+158	27.49725	-23.27	-5.00	-18.27	Pass
	27.485	-24.27	-13.00	-11.27	Pass

Beam 167	Beam 162
	
Beam 30	**Beam 24+167**
	
Beam 34+162	**Beam 30+158**
	

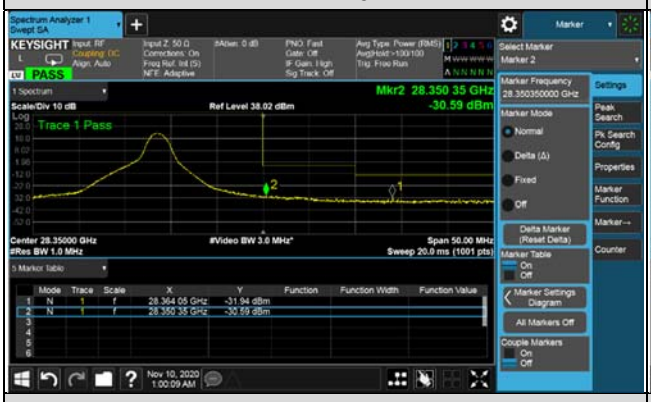
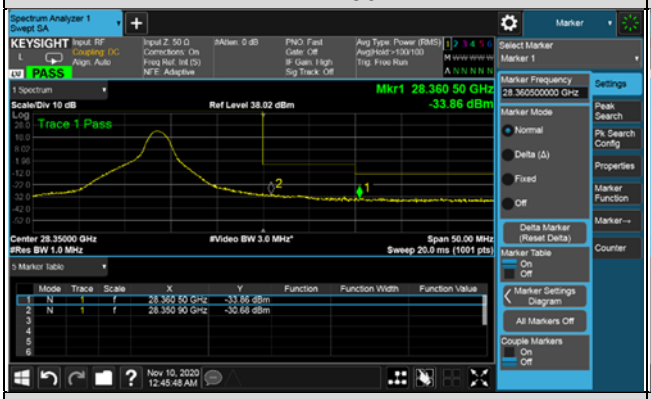
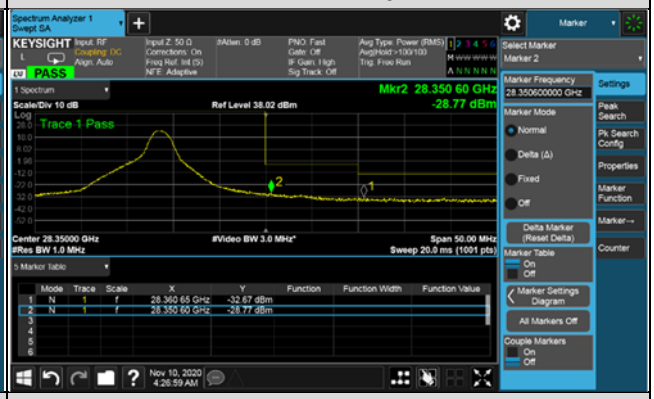
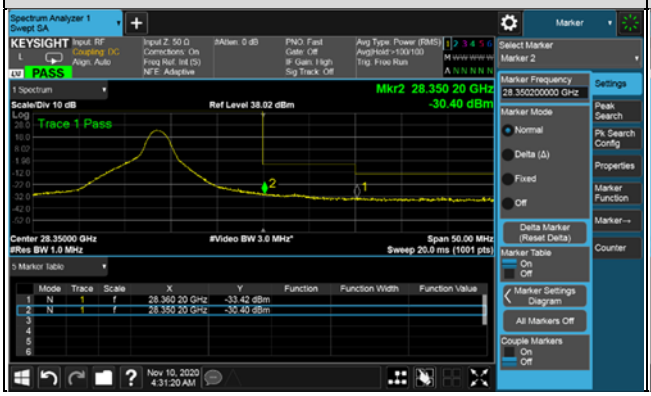
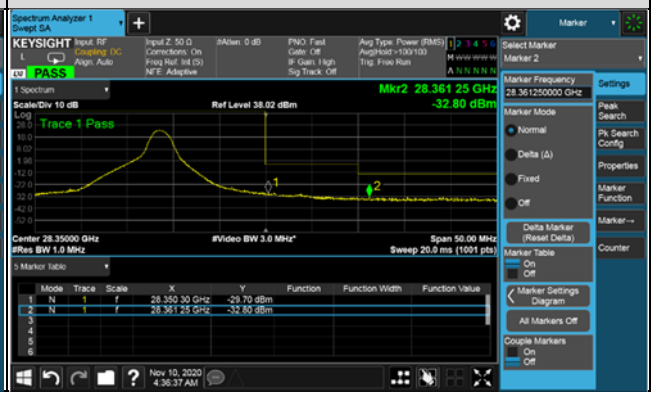
Note: The test results already include the correction factor (corrections: On).

Band	n261				
Low Channel	2071821				
QPSK-1CC	Full RB				
Beam ID	Frequency (GHz)	EIRP Value (dBm)	Limit (dBm)	Margin (dB)	Result
167	27.48505	-23.64	-5.00	-18.64	Pass
	27.49725	-21.84	-13.00	-8.84	Pass
162	27.48485	-23.29	-5.00	-18.29	Pass
	27.49705	-22.40	-13.00	-9.40	Pass
30	27.49735	-21.38	-5.00	-16.38	Pass
	27.48495	-23.24	-13.00	-10.24	Pass
24+167	27.4977	-22.67	-5.00	-17.67	Pass
	27.4848	-24.52	-13.00	-11.52	Pass
34+162	27.4976	-23.36	-5.00	-18.36	Pass
	27.48485	-24.76	-13.00	-11.76	Pass
30+158	27.49765	-22.98	-5.00	-17.98	Pass
	27.48525	-24.51	-13.00	-11.51	Pass

Beam 167	Beam 162
	
Beam 30	**Beam 24+167**
	
Beam 34+162	**Beam 30+158**
	

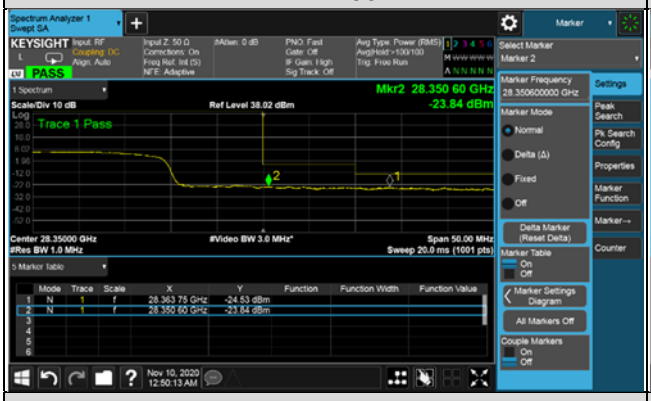
Note: The test results already include the correction factor (corrections: On).

Band	n261				
High Channel	2084035				
QPSK-1CC	1RB65				
Beam ID	Frequency (GHz)	EIRP Value (dBm)	Limit (dBm)	Margin (dB)	Result
167	28.36405	-31.94	-5.00	-26.94	Pass
	28.35035	-30.59	-13.00	-17.59	Pass
162	28.3535	-32.61	-5.00	-27.61	Pass
	28.3701	-33.46	-13.00	-20.46	Pass
30	28.3605	-33.86	-5.00	-28.86	Pass
	28.3509	-30.68	-13.00	-17.68	Pass
24+167	28.36065	-32.67	-5.00	-27.67	Pass
	28.3506	-28.77	-13.00	-15.77	Pass
34+162	28.3602	-33.42	-5.00	-28.42	Pass
	28.3502	-30.40	-13.00	-17.40	Pass
30+158	28.3503	-29.70	-5.00	-24.70	Pass
	28.36125	-32.80	-13.00	-19.80	Pass

Beam 167	Beam 162
	
Beam 30	**Beam 24+167**
	
Beam 34+162	**Beam 30+158**
	

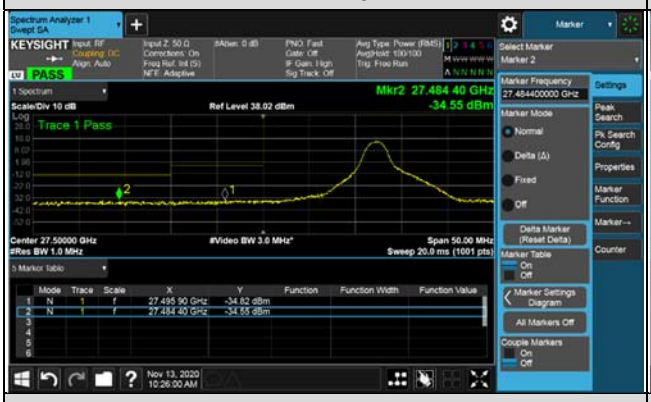
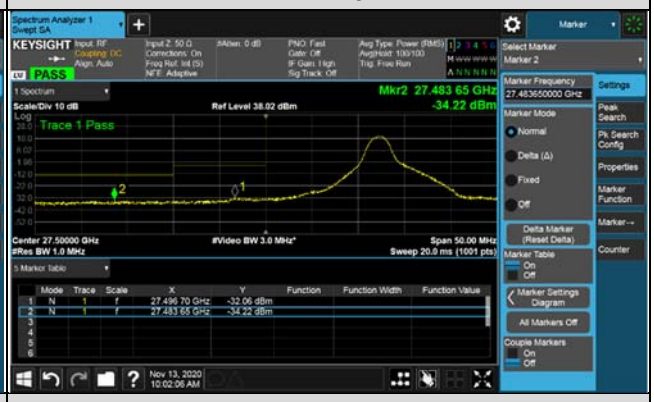
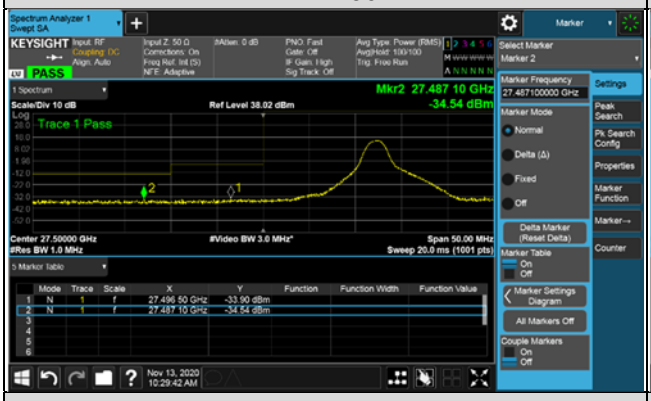
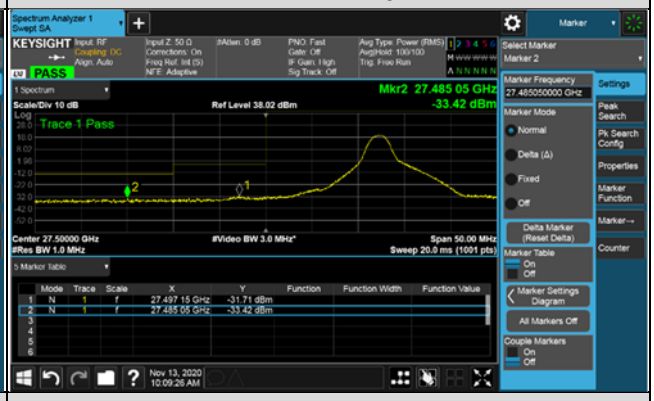
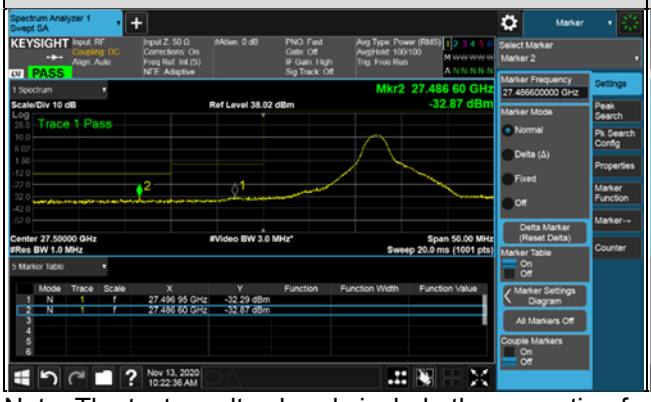
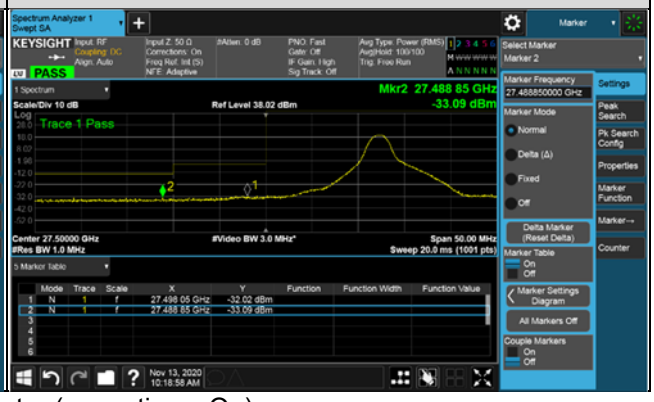
Note: The test results already include the correction factor (corrections: On).

Band	n261				
High Channel	2084035				
QPSK-1CC	Full RB				
Beam ID	Frequency (GHz)	EIRP Value (dBm)	Limit (dBm)	Margin (dB)	Result
167	28.3643	-25.96	-5.00	-20.96	Pass
	28.35055	-24.88	-13.00	-11.88	Pass
162	28.351	-24.94	-5.00	-19.94	Pass
	28.36325	-26.36	-13.00	-13.36	Pass
30	28.36375	-24.53	-5.00	-19.53	Pass
	28.3506	-23.84	-13.00	-10.84	Pass
24+167	28.36375	-24.02	-5.00	-19.02	Pass
	28.35025	-23.01	-13.00	-10.01	Pass
34+162	28.3605	-24.06	-5.00	-19.06	Pass
	28.35035	-23.18	-13.00	-10.18	Pass
30+158	28.36325	-24.50	-5.00	-19.50	Pass
	28.35025	-23.64	-13.00	-10.64	Pass

Beam 167	Beam 162
	
Beam 30	**Beam 24+167**
	
Beam 34+162	**Beam 30+158**
	

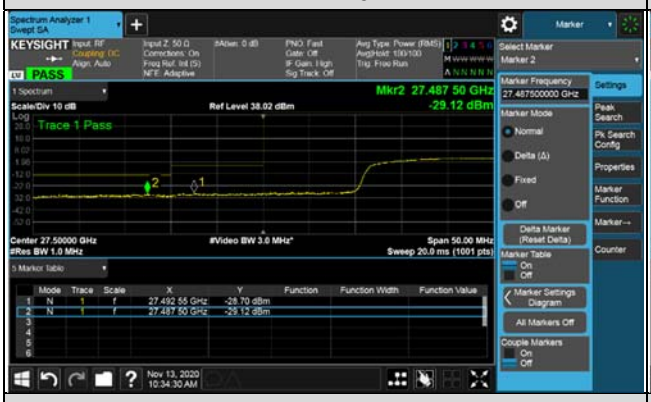
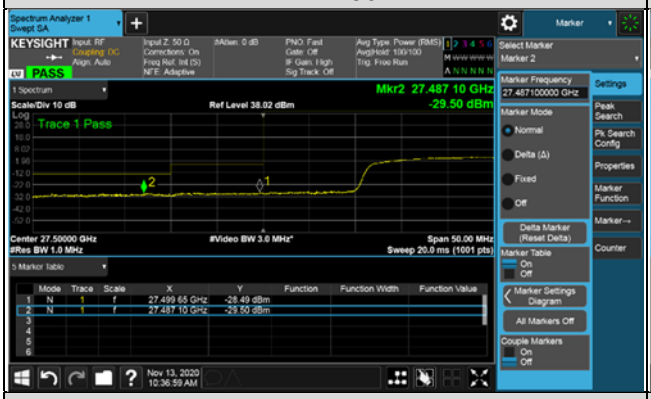
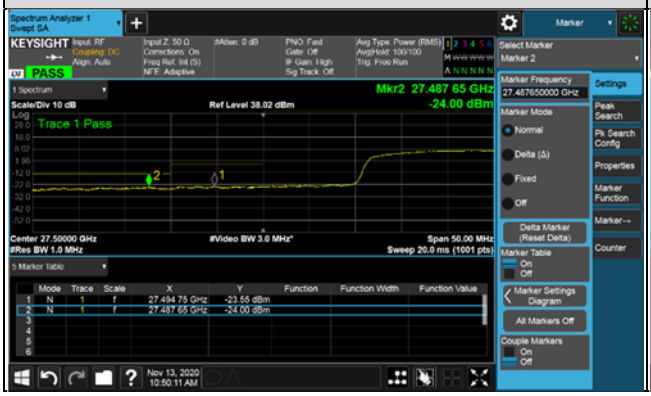
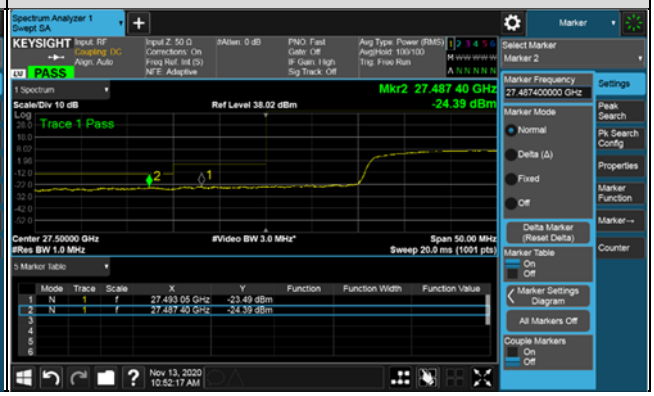
Note: The test results already include the correction factor (corrections: On).

Band	n261				
Low Channel	2071831+2073489				
QPSK-2CC	1RB0				
Beam ID	Frequency (GHz)	EIRP Value (dBm)	Limit (dBm)	Margin (dB)	Result
167	27.4959	-34.82	-5.00	-29.82	Pass
	27.4844	-34.55	-13.00	-21.55	Pass
34	27.4967	-32.06	-5.00	-27.06	Pass
	27.48365	-34.22	-13.00	-21.22	Pass
30	27.4965	-33.90	-5.00	-28.90	Pass
	27.4871	-34.54	-13.00	-21.54	Pass
24+167	27.49715	-31.71	-5.00	-26.71	Pass
	27.48505	-33.42	-13.00	-20.42	Pass
34+162	27.49695	-32.29	-5.00	-27.29	Pass
	27.4866	-32.87	-13.00	-19.87	Pass
30+158	27.49805	-32.02	-5.00	-27.02	Pass
	27.48885	-33.09	-13.00	-20.09	Pass

Beam 167	Beam 34
	
Beam 30	**Beam 24+167**
	
Beam 34+162	**Beam 30+158**
	

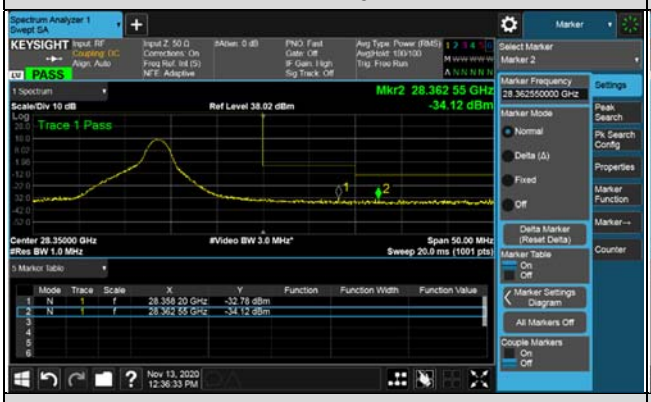
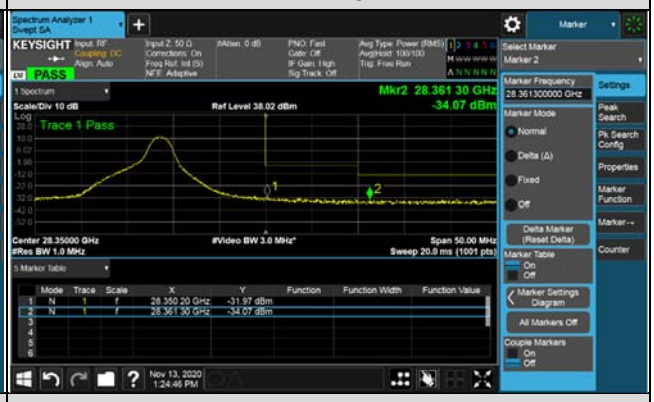
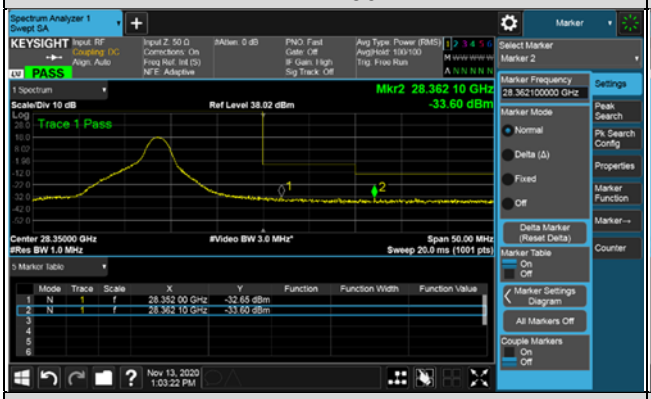
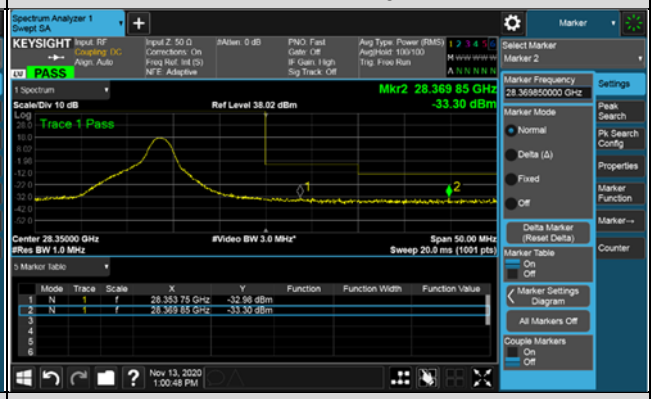
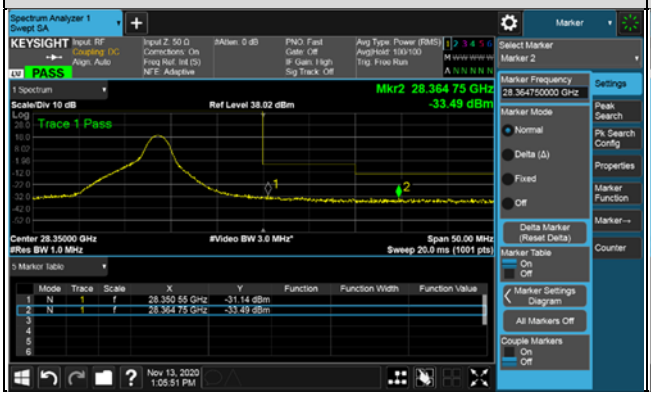
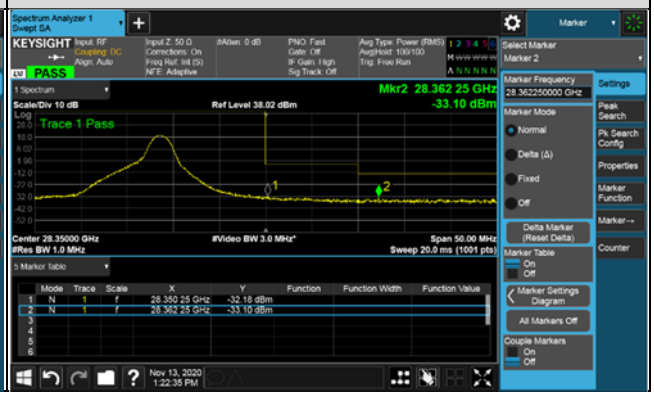
Note: The test results already include the correction factor (corrections: On).

Band	n261				
Low Channel	2071831+2073489				
QPSK-2CC	Full RB				
Beam ID	Frequency (GHz)	EIRP Value (dBm)	Limit (dBm)	Margin (dB)	Result
167	27.49255	-28.70	-5.00	-23.70	Pass
	27.4875	-29.12	-13.00	-16.12	Pass
34	27.493	-23.48	-5.00	-18.48	Pass
	27.48775	-24.26	-13.00	-11.26	Pass
30	27.49965	-28.49	-5.00	-23.49	Pass
	27.4871	-29.50	-13.00	-16.50	Pass
24+167	27.49295	-23.24	-5.00	-18.24	Pass
	27.48735	-24.46	-13.00	-11.46	Pass
34+162	27.49475	-23.55	-5.00	-18.55	Pass
	27.48765	-24.00	-13.00	-11.00	Pass
30+158	27.49305	-23.49	-5.00	-18.49	Pass
	27.4874	-24.39	-13.00	-11.39	Pass

Beam 167	Beam 34
	
Beam 30	**Beam 24+167**
	
Beam 34+162	**Beam 30+158**
	

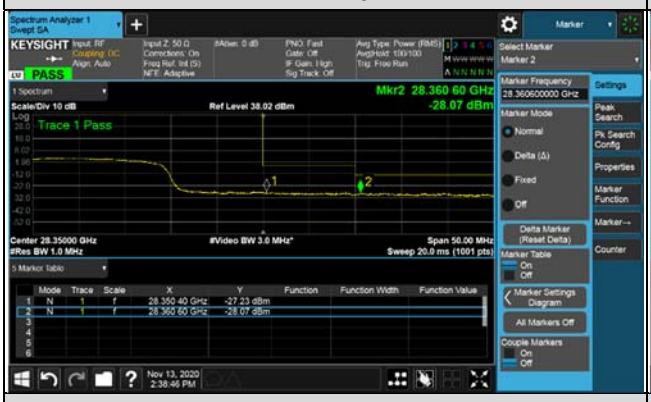
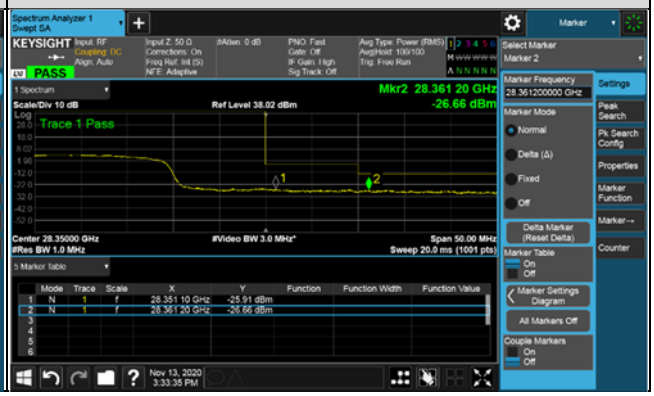
Note: The test results already include the correction factor (corrections: On).

Band	n261				
High Channel	2082333+2084001				
QPSK-2CC	1RB65				
Beam ID	Frequency (GHz)	EIRP Value (dBm)	Limit (dBm)	Margin (dB)	Result
167	28.3582	-32.78	-5.00	-27.78	Pass
	28.36255	-34.12	-13.00	-21.12	Pass
34	28.3502	-31.97	-5.00	-26.97	Pass
	28.3613	-34.07	-13.00	-21.07	Pass
30	28.352	-32.65	-5.00	-27.65	Pass
	28.3621	-33.60	-13.00	-20.60	Pass
24+167	28.35375	-32.98	-5.00	-27.98	Pass
	28.36985	-33.30	-13.00	-20.30	Pass
34+162	28.35055	-31.14	-5.00	-26.14	Pass
	28.36475	-33.49	-13.00	-20.49	Pass
30+158	28.35025	-32.18	-5.00	-27.18	Pass
	28.36225	-33.10	-13.00	-20.10	Pass

Beam 167	Beam 34
	
Beam 30	**Beam 24+167**
	
Beam 34+162	**Beam 30+158**
	

Note: The test results already include the correction factor (corrections: On).

Band	n261				
High Channel	2082333+2084001				
QPSK-2CC	Full RB				
Beam ID	Frequency (GHz)	EIRP Value (dBm)	Limit (dBm)	Margin (dB)	Result
167	28.3504	-27.23	-5.00	-22.23	Pass
	28.3606	-28.07	-13.00	-15.07	Pass
34	28.3506	-27.24	-5.00	-22.24	Pass
	28.3612	-27.85	-13.00	-14.85	Pass
30	28.3527	-27.76	-5.00	-22.76	Pass
	28.36125	-28.14	-13.00	-15.14	Pass
24+167	28.3523	-27.79	-5.00	-22.79	Pass
	28.36325	-27.83	-13.00	-14.83	Pass
34+162	28.3511	-26.14	-5.00	-21.14	Pass
	28.3634	-26.58	-13.00	-13.58	Pass
30+158	28.3511	-25.91	-5.00	-20.91	Pass
	28.3612	-26.66	-13.00	-13.66	Pass

Beam 167	Beam 34
	
Beam 30	**Beam 24+167**
	
Beam 34+162	**Beam 30+158**
	

Note: The test results already include the correction factor (corrections: On).

4.6 Frequency Stability Measurement

4.6.1 Limits of Frequency Stability Measurement

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency band.

4.6.2 Test Procedure

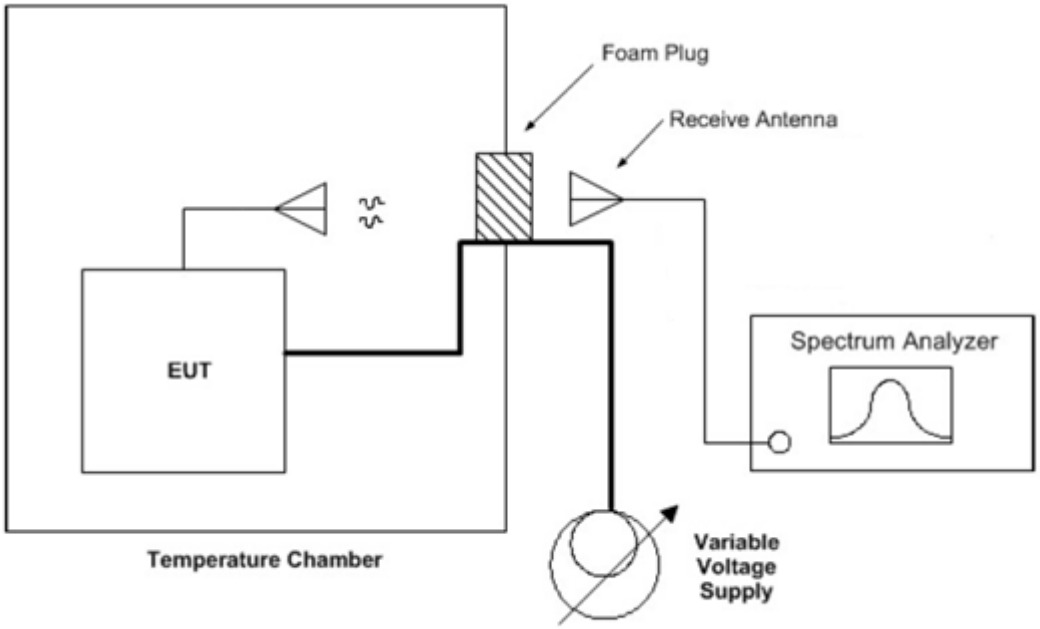
a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.

b. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.

c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the ±0.5 ℃ during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

Note: The frequency error was recorded from the communication simulator.

4.6.3 Test Setup



4.6.4 Test Result

Frequency Stability Versus Temp.

n260				
Temp. (℃)	Power Supply (Vdc)	Measured Frequency (MHz)	FT, ppm	Pass/Fail
-30	3.85	38853.324600	0.0001	Pass
-20	3.85	38852.130400	0.0001	Pass
-10	3.85	38851.924300	0.0001	Pass
0	3.85	38851.623200	0.0000	Pass
10	3.85	38849.099300	0.0000	Pass
20	3.85	38853.236200	0.0001	Pass
30	3.85	38854.932400	0.0001	Pass
40	3.85	38854.910600	0.0001	Pass
50	3.85	38855.932300	0.0002	Pass
60	3.85	38855.932400	0.0002	Pass

Frequency Error vs. Voltage

n260				
Temp. (℃)	Power Supply (Vdc)	Measured Frequency (MHz)	FT, ppm	Pass/Fail
20	4.43	38853.209800	0.0001	Pass
	3.85	38853.236200	0.0001	Pass
	3.27	38853.223400	0.0001	Pass

Frequency Stability Versus Temp.

n261				
Temp. (℃)	Power Supply (Vdc)	Measured Frequency (MHz)	FT, ppm	Pass/Fail
-30	3.85	27928.234200	0.0002	Pass
-20	3.85	27927.804600	0.0002	Pass
-10	3.85	27926.965400	0.0001	Pass
0	3.85	27927.304300	0.0001	Pass
10	3.85	27926.923300	0.0001	Pass
20	3.85	27926.632400	0.0001	Pass
30	3.85	27927.530600	0.0001	Pass
40	3.85	27927.640300	0.0001	Pass
50	3.85	27928.262400	0.0002	Pass
60	3.85	27928.032100	0.0002	Pass

Frequency Error vs. Voltage

n261				
Temp. (℃)	Power Supply (Vdc)	Measured Frequency (MHz)	FT, ppm	Pass/Fail
20	4.43	27926.932200	0.0001	Pass
	3.85	27926.632400	0.0001	Pass
	3.27	27926.532300	0.0001	Pass

5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

FCC accreditation scope:

Web Site:
https://apps.fcc.gov/oetcf/eas/reports/ViewTestFirmAccredScopes.cfm?calledFromFrame=N&RequestTimeout=500&regnum_specified=N&test_firm_id=7635

Scope	FCC Rule Parts	Maximum Assessed Frequency in Mhz	Status	Expiration Date	Recognition Date
Intentional Radiators	FCC Part 15 Subpart C	300000.00	Approved	08-06-2020	07-06-2017
U-NII without DFS Intentional Radiators	FCC Part 15, Subpart E	300000.00	Approved	08-06-2020	07-06-2017
U-NII with DFS Intentional Radiators	FCC Part 15, Subpart E	300000.00	Approved	08-06-2020	07-06-2017
UWB Intentional Radiators	FCC Part 15, Subpart F	300000.00	Approved	08-06-2020	07-06-2017
BPL Intentional Radiators	FCC Part 15, Subpart G	300000.00	Approved	08-06-2020	07-06-2017
White Space Device Intentional Radiators	FCC Part 15, Subpart H	300000.00	Approved	08-06-2020	07-06-2017
Commercial Mobile Services	Part 22 (cellular), Part 24, Part 25 (below 3 GHz), Part 27	300000.00	Approved	08-06-2020	07-06-2017
General Mobile Radio Services	Part 22 (non-cellular), Part 90 (below 3 GHz), Part 95 (below 3 GHz), Part 97 (below 3 GHz),Part 101 (below 3 GHz)	300000.00	Approved	08-06-2020	07-06-2017
Citizens Broadband Radio Services	Part 96	300000.00	Approved	08-06-2020	07-06-2017
Maritime and Aviation Radio Services	Part 80, Part 87	300000.00	Approved	08-06-2020	07-06-2017
Microwave and Millimeter Bands Radio Services	Part 25 (above 3 GHz), Part 30, Part 74, Part 90 (above 3 GHz), Part 95 (above 3 GHz), Part 97 (above 3 GHz) Part 101	300000.00	Approved	08-06-2020	07-06-2017
RF Exposure		6000.00	Approved	08-06-2020	07-06-2017
Hearing Aid Compatibility	Part 20	6000.00	Approved	08-06-2020	07-06-2017
Signal Boosters	Part 20, Part 90.219	300000.00	Approved	08-06-2020	07-06-2017

If you have any comments, please feel free to contact us at the following:

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Email: service.adt@tw.bureauveritas.com
Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

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