WCDMA Band5 Test Data

Report No. ENS2207140201W00206R Page 17

AppendixA: Effective (Isotropic) Radiated Power Output Data

Report No. ENS2207140201W00206R Page 32

AppendixB: Peak-to-Average Ratio

Report No. ENS2207140201W00206R Page 22

AppendixC: 26dB Bandwidth andOccupied Bandwidth

Report No. ENS2207140201W00206R Page 23

AppendixD: Band Edge

Report No. ENS2207140201W00206R Page 24

AppendixE: Conducted SpuriousEmission

Report No.ENS2207140201W00206R Page 31

AppendixF: Frequency Stability

AppendixA: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band5	4132	20.95	38.45	PASS
Band5	4183	22.99	38.45	PASS
Band5	4233	22.85	38.45	PASS

Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band5	4132	1	22.34	38.5	PASS
Band5	4132	2	21.85	38.5	PASS
Band5	4132	3	21.85	38.5	PASS
Band5	4132	4	21.85	38.5	PASS
Band5	4183	1	22.26	38.5	PASS
Band5	4183	2	21.79	38.5	PASS
Band5	4183	3	21.74	38.5	PASS
Band5	4183	4	21.75	38.5	PASS
Band5	4233	1	22.11	38.5	PASS
Band5	4233	2	21.62	38.5	PASS
Band5	4233	3	21.59	38.5	PASS
Band5	4233	4	21.63	38.5	PASS

Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band5	4132	1	22.15	38.5	PASS
Band5	4132	2	20.65	38.5	PASS
Band5	4132	3	21.25	38.5	PASS
Band5	4132	4	20.09	38.5	PASS
Band5	4132	5	22.19	38.5	PASS
Band5	4183	1	22.05	38.5	PASS
Band5	4183	2	20.61	38.5	PASS
Band5	4183	3	21.14	38.5	PASS
Band5	4183	4	20.03	38.5	PASS
Band5	4183	5	22.17	38.5	PASS
Band5	4233	1	21.89	38.5	PASS

Band5	4233	2	20.56	38.5	PASS
Band5	4233	3	20.97	38.5	PASS
Band5	4233	4	19.90	38.5	PASS
Band5	4233	5	21.90	38.5	PASS

AppendixB:Peak-to-Average Ratio

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band5	4132	3.18	13	PASS
Band5	4183	3.2	13	PASS
Band5	4233	3.16	13	PASS

Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band5	4132	1	3.3	13	PASS
Band5	4132	2	3.54	13	PASS
Band5	4132	3	3.73	13	PASS
Band5	4132	4	3.78	13	PASS
Band5	4183	1	3.32	13	PASS
Band5	4183	2	3.66	13	PASS
Band5	4183	3	3.85	13	PASS
Band5	4183	4	3.9	13	PASS
Band5	4233	1	3.31	13	PASS
Band5	4233	2	3.66	13	PASS
Band5	4233	3	3.85	13	PASS
Band5	4233	4	3.9	13	PASS

Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band5	4132	1	4.51	13	PASS
Band5	4132	2	5.37	13	PASS
Band5	4132	3	5.33	13	PASS
Band5	4132	4	4.11	13	PASS
Band5	4132	5	4.37	13	PASS
Band5	4183	1	4.27	13	PASS
Band5	4183	2	5.44	13	PASS
Band5	4183	3	4.99	13	PASS
Band5	4183	4	5.44	13	PASS
Band5	4183	5	4.54	13	PASS
Band5	4233	1	4.27	13	PASS

Band5	4233	2	5.44	13	PASS
Band5	4233	3	4.97	13	PASS
Band5	4233	4	5.45	13	PASS
Band5	4233	5	4.54	13	PASS

Test Graphs

Band5-4132
Band5-4183
Band5-4233

Spectrum Analyzer 1
Power Stat CCDF
KEYSIGHT
Frequency
Center Frequency
846.600000 MHz
Settings
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz
1 Metrics
2 Graph
Gaussian
Average Power
27.24 dBm
52.98 % at 0 dB
10.0 % 1.71 dB
1.0 % 2.67 dB
0.1 % 3.16 dB
0.01 % 3.38 dB
0.001 % 3.51 dB
0.0001 % 3.56 dB
Peak 3.60 dB
30.84 dBm
0.00 dB
20.00 dB
Info BW 5.0000 MHz
Aug 12, 2022
5:03:08 PM

Band5-4132-1

Band5-4132-2

Band5-4132-3

Band5-4132-4

Band5-4183-1

Band5-4183-2

Band5-4183-3

Band5-4183-4

Band5-4233-1

Band5-4233-2

Band5-4233-3

Band5-4233-4

Band5-4132-1

Band5-4132-2

Band5-4132-3

Band5-4132-4

Band5-4132-5

Band5-4183-1

Band5-4183-2

Band5-4183-3

Band5-4183-4

Band5-4183-5

Band5-4233-1

Band5-4233-2

Band5-4233-3

Band5-4233-4

Band5-4233-5

AppendixC:26dB Bandwidth andOccupied Bandwidth

Test Result

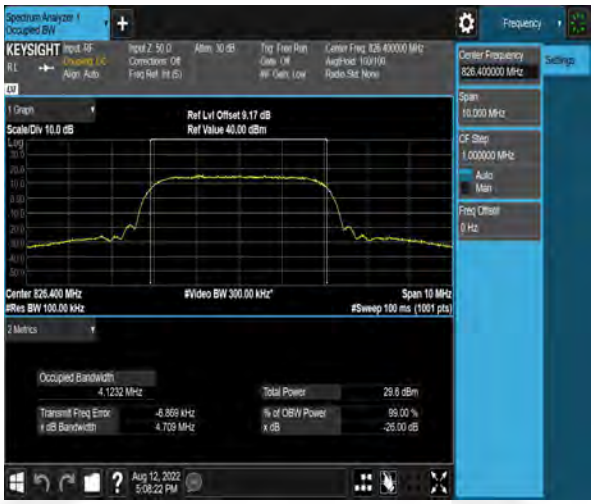
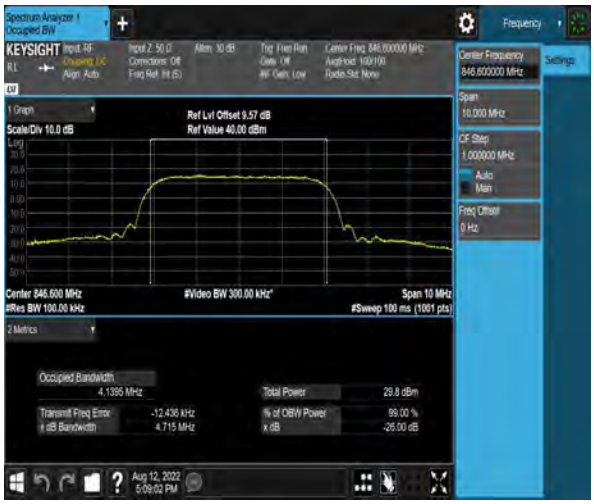
Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band5	4132	4.1232	4.709	---	PASS
Band5	4183	4.1346	4.711	---	PASS
Band5	4233	4.1395	4.715	---	PASS

Band	Channel	SubTest	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band5	4132	1	4.1226	4.704	---	PASS
Band5	4132	2	4.1232	4.707	---	PASS
Band5	4132	3	4.1234	4.699	---	PASS
Band5	4132	4	4.1251	4.709	---	PASS
Band5	4183	1	4.1295	4.702	---	PASS
Band5	4183	2	4.1326	4.710	---	PASS
Band5	4183	3	4.1393	4.725	---	PASS
Band5	4183	4	4.1310	4.713	---	PASS
Band5	4233	1	4.1338	4.701	---	PASS
Band5	4233	2	4.1341	4.713	---	PASS
Band5	4233	3	4.1360	4.709	---	PASS
Band5	4233	4	4.1405	4.713	---	PASS

Band	Channel	SubTest	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band5	4132	1	4.1260	4.714	---	PASS
Band5	4132	2	4.1325	4.715	---	PASS
Band5	4132	3	4.1301	4.729	---	PASS
Band5	4132	4	4.1301	4.705	---	PASS
Band5	4132	5	4.1232	4.704	---	PASS
Band5	4183	1	4.1351	4.740	---	PASS
Band5	4183	2	4.1366	4.723	---	PASS
Band5	4183	3	4.1378	4.716	---	PASS

Band5	4183	4	4.1325	4.716	---	PASS
Band5	4183	5	4.1378	4.712	---	PASS
Band5	4233	1	4.1456	4.718	---	PASS
Band5	4233	2	4.1353	4.716	---	PASS
Band5	4233	3	4.1421	4.723	---	PASS
Band5	4233	4	4.1381	4.723	---	PASS
Band5	4233	5	4.1374	4.725	---	PASS

Test Graphs

Band5-4132

Band5-4183
Band5-4233


Band5-4132-1

Band5-4132-2

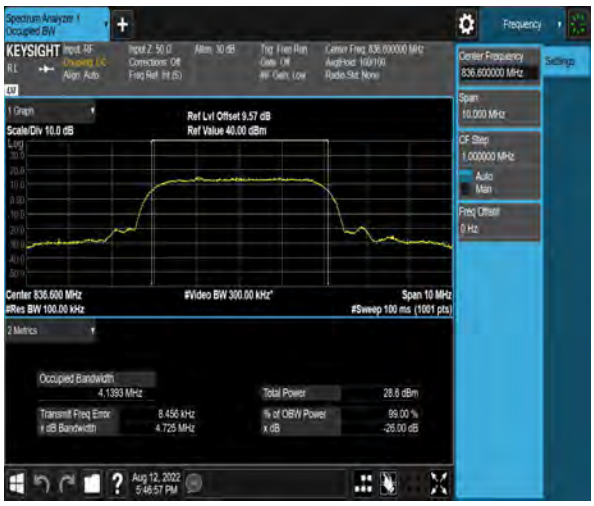
Band5-4132-3

Band5-4132-4

Band5-4183-1

Band5-4183-2

Band5-4183-3



Band5-4183-4

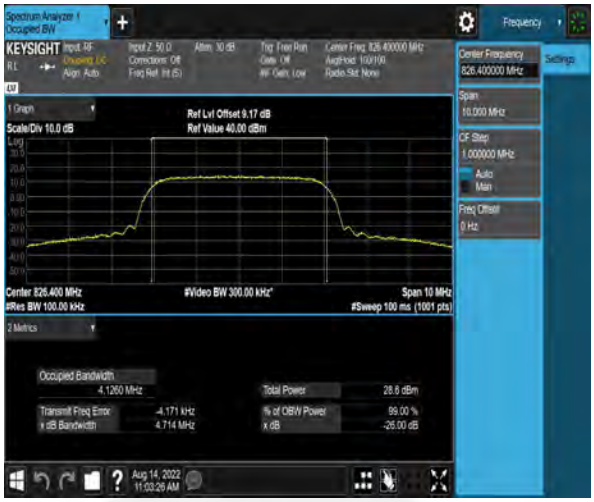
Band5-4233-1

Band5-4233-2

Band5-4233-3

Band5-4233-4

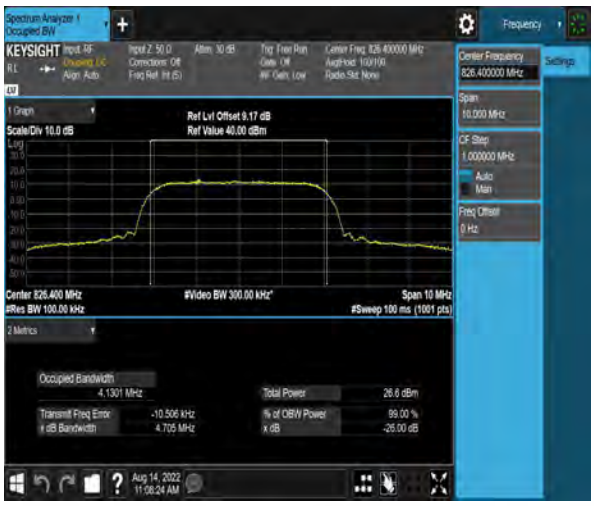
Band5-4132-1



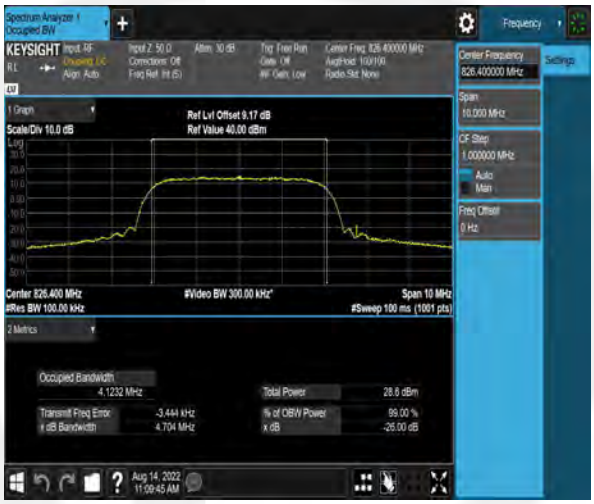
Band5-4132-2

Band5-4132-3

Band5-4132-4



Band5-4132-5



Band5-4183-1

Band5-4183-2

Band5-4183-3

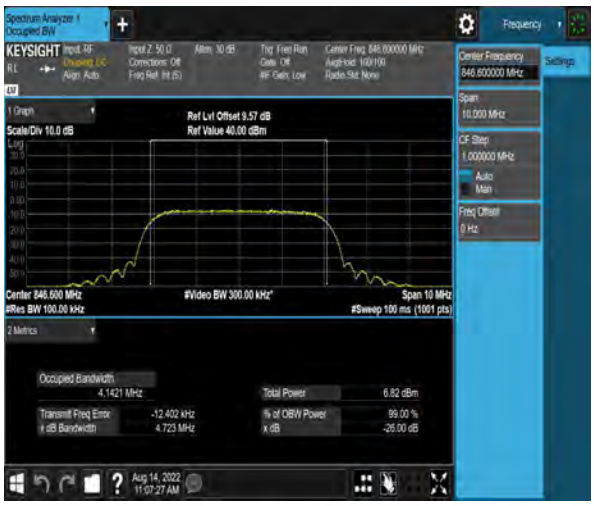
Band5-4183-4

Band5-4183-5

Band5-4233-1

Band5-4233-2

Band5-4233-3



Band5-4233-4

Band5-4233-5

AppendixD:Band Edge

Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band5	4132	824.00	-18.33	-13	PASS
Band5	4233	849.00	-18.66	-13	PASS

Band	Channel	SubTest	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band5	4132	1	824.00	-19.27	-13	PASS
Band5	4132	2	824.00	-18.40	-13	PASS
Band5	4132	3	824.00	-18.08	-13	PASS
Band5	4132	4	824.00	-18.00	-13	PASS
Band5	4233	1	849.00	-19.83	-13	PASS
Band5	4233	2	849.00	-18.70	-13	PASS
Band5	4233	3	849.00	-18.47	-13	PASS
Band5	4233	4	849.00	-18.35	-13	PASS

Band	Channel	SubTest	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band5	4132	1	824.00	-18.65	-13	PASS
Band5	4132	2	824.00	-19.39	-13	PASS
Band5	4132	3	824.00	-19.12	-13	PASS
Band5	4132	4	824.00	-20.68	-13	PASS
Band5	4132	5	824.00	-18.28	-13	PASS
Band5	4233	1	849.00	-40.44	-13	PASS
Band5	4233	2	849.00	-40.69	-13	PASS
Band5	4233	3	849.00	-40.90	-13	PASS
Band5	4233	4	849.00	-40.57	-13	PASS
Band5	4233	5	849.00	-25.11	-13	PASS

Test Graphs

Band5-4132
Band5-4233

Band5-4132-1

Band5-4132-2

Band5-4132-3

Band5-4132-4

Band5-4233-1

Band5-4233-2

Band5-4233-3

Spectrum Analyzer 1
Swept SA
KEYSIGHT
Ref Lvl Offset 9.57 dB
Ref Level 29.57 dBm
Mkr1 849.000 MHz
-18.471 dBm
Scale/Div 10 dB
Center 849.000 MHz
#Res BW 100 kHz
#Video BW 300 kHz*
Span 2.000 MHz
#Sweep 100 ms (601 pts)
Frequency
Center Frequency
849.000000 MHz
Span
2.00000000 MHz
Swept Span
Zero Span
Full Span
Start Freq
848.000000 MHz
Stop Freq
850.000000 MHz
AUTO TUNE
CF Step
200.000 kHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
Aug 14, 2022
9:55:56 AM

Band5-4233-4

Spectrum Analyzer 1
Swept SA
KEYSIGHT
Ref Lvl Offset 9.57 dB
Ref Level 29.57 dBm
Mkr1 849.000 MHz
-18.354 dBm
Scale/Div 10 dB
Center 849.000 MHz
#Res BW 100 kHz
#Video BW 300 kHz*
Span 2.000 MHz
#Sweep 100 ms (601 pts)
Frequency
Center Frequency
849.000000 MHz
Span
2.00000000 MHz
Swept Span
Zero Span
Full Span
Start Freq
848.000000 MHz
Stop Freq
850.000000 MHz
AUTO TUNE
CF Step
200.000 kHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
Aug 14, 2022
9:56:55 AM

Band5-4132-1

Band5-4132-2

Band5-4132-3

Band5-4132-4

Band5-4132-5

Band5-4233-1

Band5-4233-2

Band5-4233-3

Band5-4233-4

Band5-4233-5

Spectrum Analyzer 1
Swept SA
KEYSIGHT
Frequency
Settings
Center Frequency
849.000000 MHz
Span
2.000000000 MHz
Swept Span
Zero Span
Full Span
Start Freq
848.000000 MHz
Stop Freq
850.000000 MHz
AUTO TUNE
CF Step
200.000 kHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
Span Zoom
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 9.57 dB
Ref Level 29.57 dBm
Mkr1 849.000 MHz
-25.115 dBm
Center 849.000 MHz
#Res BW 100 kHz
#Video BW 300 kHz*
Span 2.000 MHz
#Sweep 100 ms (601 pts)
Aug 14, 2022
11:21:46 AM

AppendixE:Conducted SpuriousEmission

Test Result

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band5	4132	0.009~0.15MHz	0.02	-76.62	-43	PASS
Band5	4132	0.15~30MHz	0.15	-68.59	-33	PASS
Band5	4132	30~1000MHz	926.8	-66.63	-23	PASS
Band5	4132	1000~3000MHz	2619.6	-36.15	-13	PASS
Band5	4132	3000~10000MHz	3846.07	-50.15	-13	PASS
Band5	4132	10000~18000MHz	14252.8	-51.53	-13	PASS
Band5	4183	0.009~0.15MHz	0.01	-75.59	-43	PASS
Band5	4183	0.15~30MHz	0.18	-68.59	-33	PASS
Band5	4183	30~1000MHz	965.82	-66.77	-23	PASS
Band5	4183	1000~3000MHz	2624.33	-36.22	-13	PASS
Band5	4183	3000~10000MHz	3856.33	-50.31	-13	PASS
Band5	4183	10000~18000MHz	13614.4	-51.46	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-75.8	-43	PASS
Band5	4233	0.15~30MHz	0.15	-68.84	-33	PASS
Band5	4233	30~1000MHz	981.54	-66.71	-23	PASS
Band5	4233	1000~3000MHz	2676.87	-36.07	-13	PASS
Band5	4233	3000~10000MHz	3834.4	-50.28	-13	PASS
Band5	4233	10000~18000MHz	13606.67	-51.42	-13	PASS

Band	Channel	SubTest	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band5	4132	1	0.15~30MHz	0.18	-68.91	-33	PASS
Band5	4132	1	30~1000MHz	941.22	-66.43	-23	PASS
Band5	4132	1	1000~3000MHz	2660.07	-36.57	-13	PASS
Band5	4132	1	3000~10000MHz	3810.6	-50.44	-13	PASS
Band5	4132	1	10000~18000MHz	13600.8	-51.68	-13	PASS
Band5	4132	1	0.009~0.15MHz	0.01	-76.19	-43	PASS
Band5	4132	2	1000~3000MHz	2617.67	-36.56	-13	PASS
Band5	4132	2	0.009~0.15MHz	0.01	-75.27	-43	PASS
Band5	4132	2	3000~10000MHz	3839.77	-50.4	-13	PASS
Band5	4132	2	30~1000MHz	996.22	-65.73	-23	PASS
Band5	4132	2	0.15~30MHz	0.16	-69.06	-33	PASS

Band5	4132	2	10000~18000MHz	13605.33	-51.55	-13	PASS
Band5	4132	3	0.15~30MHz	0.17	-67.34	-33	PASS
Band5	4132	3	30~1000MHz	926.86	-66.35	-23	PASS
Band5	4132	3	10000~18000MHz	13604.8	-51.42	-13	PASS
Band5	4132	3	0.009~0.15MHz	0.01	-75.18	-43	PASS
Band5	4132	3	3000~10000MHz	3840.47	-50.43	-13	PASS
Band5	4132	3	1000~3000MHz	2605.2	-36.58	-13	PASS
Band5	4132	4	0.15~30MHz	0.15	-68.94	-33	PASS
Band5	4132	4	30~1000MHz	948.43	-66.42	-23	PASS
Band5	4132	4	1000~3000MHz	2670.87	-36.49	-13	PASS
Band5	4132	4	10000~18000MHz	13614.4	-51.6	-13	PASS
Band5	4132	4	0.009~0.15MHz	0.01	-76.59	-43	PASS
Band5	4132	4	3000~10000MHz	3803.6	-50.08	-13	PASS
Band5	4183	1	10000~18000MHz	13611.47	-51.69	-13	PASS
Band5	4183	1	3000~10000MHz	3844.2	-50.4	-13	PASS
Band5	4183	1	1000~3000MHz	2642.93	-36.6	-13	PASS
Band5	4183	1	30~1000MHz	955.9	-65.78	-23	PASS
Band5	4183	1	0.009~0.15MHz	0.01	-76.6	-43	PASS
Band5	4183	1	0.15~30MHz	0.16	-68.75	-33	PASS
Band5	4183	2	0.15~30MHz	0.15	-67.66	-33	PASS
Band5	4183	2	30~1000MHz	966.11	-66.37	-23	PASS
Band5	4183	2	1000~3000MHz	2637.27	-36.4	-13	PASS
Band5	4183	2	3000~10000MHz	3796.6	-50.34	-13	PASS
Band5	4183	2	0.009~0.15MHz	0.01	-73.4	-43	PASS
Band5	4183	2	10000~18000MHz	13622.13	-51.56	-13	PASS
Band5	4183	3	1000~3000MHz	2649.8	-36.55	-13	PASS
Band5	4183	3	30~1000MHz	993.47	-66.48	-23	PASS
Band5	4183	3	0.15~30MHz	0.15	-69	-33	PASS
Band5	4183	3	3000~10000MHz	3848.17	-50.27	-13	PASS
Band5	4183	3	0.009~0.15MHz	0.01	-74.5	-43	PASS
Band5	4183	3	10000~18000MHz	14176.27	-51.53	-13	PASS
Band5	4183	4	0.009~0.15MHz	0.01	-76.1	-43	PASS
Band5	4183	4	0.15~30MHz	0.16	-68.87	-33	PASS
Band5	4183	4	30~1000MHz	729.18	-66.35	-23	PASS
Band5	4183	4	1000~3000MHz	2621.07	-36.37	-13	PASS
Band5	4183	4	3000~10000MHz	3807.1	-50.3	-13	PASS
Band5	4183	4	10000~18000MHz	14256.27	-51.55	-13	PASS

Band5	4233	1	10000~18000MHz	13602.13	-51.62	-13	PASS
Band5	4233	1	0.009~0.15MHz	0.01	-75.76	-43	PASS
Band5	4233	1	3000~10000MHz	3844.2	-50.24	-13	PASS
Band5	4233	1	0.15~30MHz	0.15	-67.8	-33	PASS
Band5	4233	1	1000~3000MHz	2600.87	-36.45	-13	PASS
Band5	4233	1	30~1000MHz	504.65	-66.99	-23	PASS
Band5	4233	2	0.15~30MHz	0.15	-68.89	-33	PASS
Band5	4233	2	30~1000MHz	746.44	-65.88	-23	PASS
Band5	4233	2	1000~3000MHz	2654	-36.47	-13	PASS
Band5	4233	2	10000~18000MHz	14181.6	-51.53	-13	PASS
Band5	4233	2	3000~10000MHz	3807.57	-50.27	-13	PASS
Band5	4233	2	0.009~0.15MHz	0.01	-76.47	-43	PASS
Band5	4233	3	30~1000MHz	709.13	-66.84	-23	PASS
Band5	4233	3	10000~18000MHz	14210.93	-51.54	-13	PASS
Band5	4233	3	1000~3000MHz	2639.27	-36.56	-13	PASS
Band5	4233	3	0.15~30MHz	0.17	-67.01	-33	PASS
Band5	4233	3	0.009~0.15MHz	0.01	-76.28	-43	PASS
Band5	4233	3	3000~10000MHz	3779.1	-50.41	-13	PASS
Band5	4233	4	10000~18000MHz	13612.27	-51.57	-13	PASS
Band5	4233	4	0.009~0.15MHz	0.01	-76.09	-43	PASS
Band5	4233	4	0.15~30MHz	0.15	-68.71	-33	PASS
Band5	4233	4	30~1000MHz	644.75	-66.18	-23	PASS
Band5	4233	4	1000~3000MHz	2712.47	-36.5	-13	PASS
Band5	4233	4	3000~10000MHz	3839.07	-50.3	-13	PASS

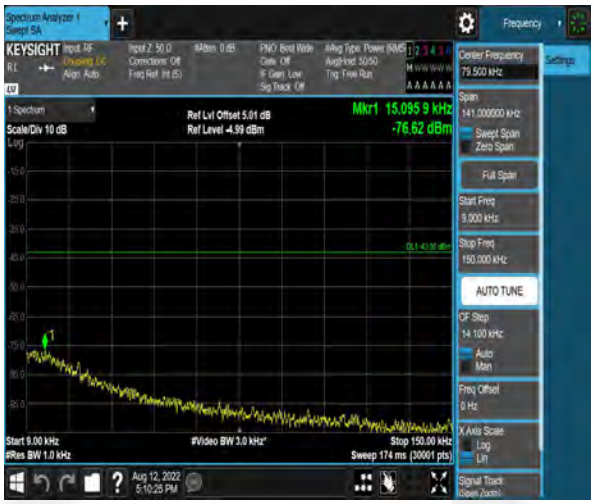
Band	Channel	SubTest	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band5	4132	1	0.15~30MHz	0.16	-67.67	-33	PASS
Band5	4132	1	30~1000MHz	929	-65.5	-23	PASS
Band5	4132	1	1000~3000MHz	2699.07	-36.09	-13	PASS
Band5	4132	1	3000~10000MHz	3828.57	-50.09	-13	PASS
Band5	4132	1	10000~18000MHz	13625.6	-51.25	-13	PASS
Band5	4132	1	0.009~0.15MHz	0.02	-76.85	-43	PASS
Band5	4132	2	1000~3000MHz	2638.07	-36.09	-13	PASS
Band5	4132	2	3000~10000MHz	3790.07	-49.98	-13	PASS
Band5	4132	2	30~1000MHz	969.19	-66.44	-23	PASS

Band5	4132	2	0.15~30MHz	0.15	-67.1	-33	PASS
Band5	4132	2	0.009~0.15MHz	0.01	-76.32	-43	PASS
Band5	4132	2	10000~18000MHz	13630.67	-51.17	-13	PASS
Band5	4132	3	10000~18000MHz	13606.67	-51.43	-13	PASS
Band5	4132	3	0.15~30MHz	0.15	-67.55	-33	PASS
Band5	4132	3	30~1000MHz	999.94	-66.37	-23	PASS
Band5	4132	3	0.009~0.15MHz	0.01	-75.69	-43	PASS
Band5	4132	3	3000~10000MHz	3847.23	-50.13	-13	PASS
Band5	4132	3	1000~3000MHz	2768.27	-36.1	-13	PASS
Band5	4132	4	0.009~0.15MHz	0.01	-74.42	-43	PASS
Band5	4132	4	0.15~30MHz	0.15	-66.8	-33	PASS
Band5	4132	4	30~1000MHz	946.42	-65.97	-23	PASS
Band5	4132	4	1000~3000MHz	2645.13	-35.98	-13	PASS
Band5	4132	4	3000~10000MHz	3791.47	-50.27	-13	PASS
Band5	4132	4	10000~18000MHz	14224.8	-51.51	-13	PASS
Band5	4132	5	1000~3000MHz	2608.27	-36.1	-13	PASS
Band5	4132	5	10000~18000MHz	14249.6	-51.31	-13	PASS
Band5	4132	5	3000~10000MHz	3815.5	-50.13	-13	PASS
Band5	4132	5	0.009~0.15MHz	0.02	-76.64	-43	PASS
Band5	4132	5	30~1000MHz	989.49	-66.32	-23	PASS
Band5	4132	5	0.15~30MHz	0.15	-67.96	-33	PASS
Band5	4183	1	0.15~30MHz	0.15	-67.47	-33	PASS
Band5	4183	1	0.009~0.15MHz	0.01	-76.73	-43	PASS
Band5	4183	1	30~1000MHz	619.82	-66.15	-23	PASS
Band5	4183	1	1000~3000MHz	2997.87	-35.85	-13	PASS
Band5	4183	1	3000~10000MHz	3801.97	-50.14	-13	PASS
Band5	4183	1	10000~18000MHz	14341.33	-51.41	-13	PASS
Band5	4183	2	1000~3000MHz	2634.13	-35.96	-13	PASS
Band5	4183	2	3000~10000MHz	3847.23	-50.04	-13	PASS
Band5	4183	2	30~1000MHz	713.72	-66.6	-23	PASS
Band5	4183	2	0.15~30MHz	0.16	-67.98	-33	PASS
Band5	4183	2	0.009~0.15MHz	0.01	-77.38	-43	PASS
Band5	4183	2	10000~18000MHz	14186.67	-51.49	-13	PASS
Band5	4183	3	30~1000MHz	730.02	-66.53	-23	PASS
Band5	4183	3	0.009~0.15MHz	0.01	-76.48	-43	PASS
Band5	4183	3	1000~3000MHz	2597.93	-35.9	-13	PASS
Band5	4183	3	3000~10000MHz	3791.47	-50.23	-13	PASS

Band5	4183	3	10000~18000MHz	13636.8	-51.46	-13	PASS
Band5	4183	3	0.15~30MHz	0.17	-69.54	-33	PASS
Band5	4183	4	0.15~30MHz	0.16	-67.7	-33	PASS
Band5	4183	4	10000~18000MHz	14241.6	-51.57	-13	PASS
Band5	4183	4	3000~10000MHz	3851.2	-50.18	-13	PASS
Band5	4183	4	30~1000MHz	970.71	-66.65	-23	PASS
Band5	4183	4	0.009~0.15MHz	0.01	-75.78	-43	PASS
Band5	4183	4	1000~3000MHz	2630.93	-36.13	-13	PASS
Band5	4183	5	10000~18000MHz	14356	-51.41	-13	PASS
Band5	4183	5	0.15~30MHz	0.15	-67.18	-33	PASS
Band5	4183	5	30~1000MHz	423.01	-66.47	-23	PASS
Band5	4183	5	1000~3000MHz	2618.47	-36.06	-13	PASS
Band5	4183	5	3000~10000MHz	3787.03	-50.3	-13	PASS
Band5	4183	5	0.009~0.15MHz	0.01	-75.51	-43	PASS
Band5	4233	1	0.009~0.15MHz	0.01	-75.34	-43	PASS
Band5	4233	1	0.15~30MHz	0.15	-67.29	-33	PASS
Band5	4233	1	30~1000MHz	949.08	-65.49	-23	PASS
Band5	4233	1	1000~3000MHz	2566.53	-35.99	-13	PASS
Band5	4233	1	3000~10000MHz	3846.07	-50.14	-13	PASS
Band5	4233	1	10000~18000MHz	13600	-51.52	-13	PASS
Band5	4233	2	1000~3000MHz	2606	-35.98	-13	PASS
Band5	4233	2	10000~18000MHz	13607.47	-51.5	-13	PASS
Band5	4233	2	3000~10000MHz	3843.03	-49.99	-13	PASS
Band5	4233	2	30~1000MHz	452.98	-66.72	-23	PASS
Band5	4233	2	0.15~30MHz	0.16	-67.58	-33	PASS
Band5	4233	2	0.009~0.15MHz	0.01	-76.88	-43	PASS
Band5	4233	3	3000~10000MHz	3849.33	-50.2	-13	PASS
Band5	4233	3	0.15~30MHz	0.16	-68.74	-33	PASS
Band5	4233	3	10000~18000MHz	13605.07	-51.32	-13	PASS
Band5	4233	3	30~1000MHz	951.47	-66.67	-23	PASS
Band5	4233	3	1000~3000MHz	2593	-36.09	-13	PASS
Band5	4233	3	0.009~0.15MHz	0.01	-76.7	-43	PASS
Band5	4233	4	0.009~0.15MHz	0.01	-75.94	-43	PASS
Band5	4233	4	10000~18000MHz	14226.13	-51.45	-13	PASS
Band5	4233	4	3000~10000MHz	3799.17	-50.23	-13	PASS
Band5	4233	4	1000~3000MHz	2611.93	-36.03	-13	PASS
Band5	4233	4	0.15~30MHz	0.17	-68.64	-33	PASS

Band5	4233	4	30~1000MHz	418.61	-66.46	-23	PASS
Band5	4233	5	10000~18000MHz	13616.8	-51.24	-13	PASS
Band5	4233	5	0.009~0.15MHz	0.01	-74.93	-43	PASS
Band5	4233	5	0.15~30MHz	0.15	-68.44	-33	PASS
Band5	4233	5	30~1000MHz	713.59	-66.77	-23	PASS
Band5	4233	5	1000~3000MHz	2653.73	-36.09	-13	PASS
Band5	4233	5	3000~10000MHz	3845.6	-50	-13	PASS

Test Graphs

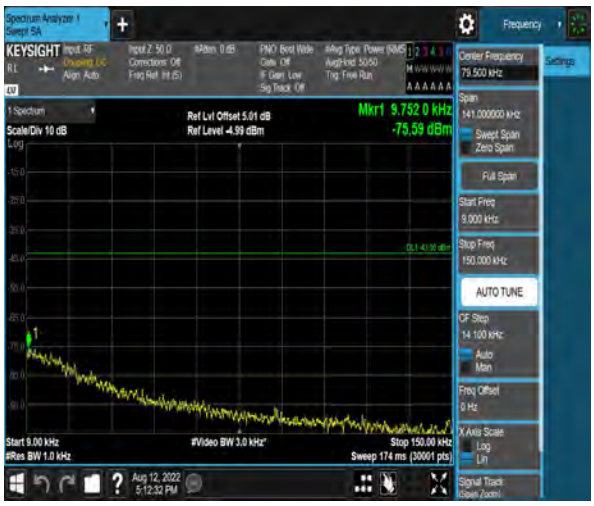
Band5-4132-0.009~0.15MHz

Band5-4132-0.15~30MHz
Band5-4132-30~1000MHz

Band5-4132-1000~3000MHz

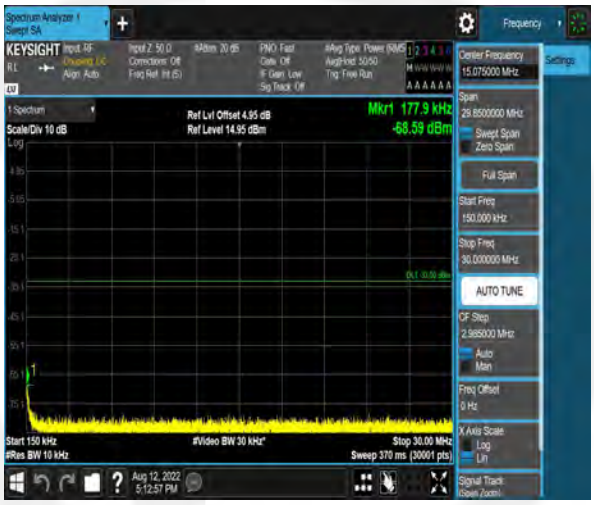
Band5-4132-3000~10000MHz

Band5-4132-10000~18000MHz

Band5-4183-0.009~0.15MHz



Band5-4183-0.15~30MHz



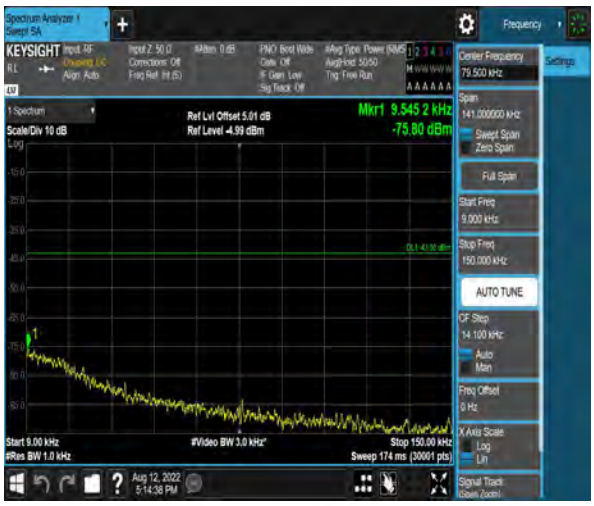
Band5-4183-30~1000MHz

Band5-4183-1000~3000MHz

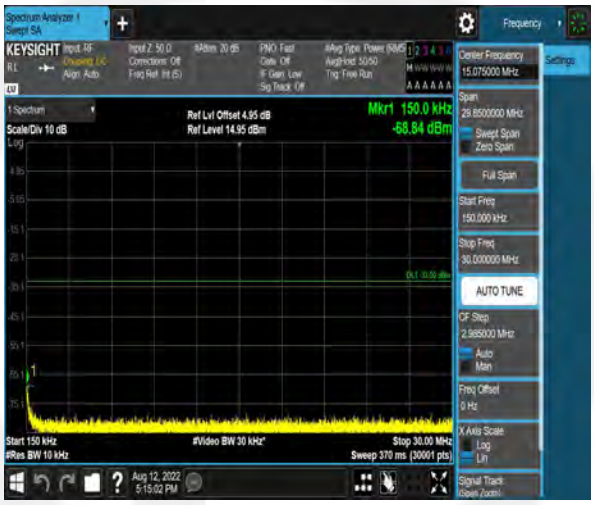
Band5-4183-3000~10000MHz

Band5-4183-10000~18000MHz

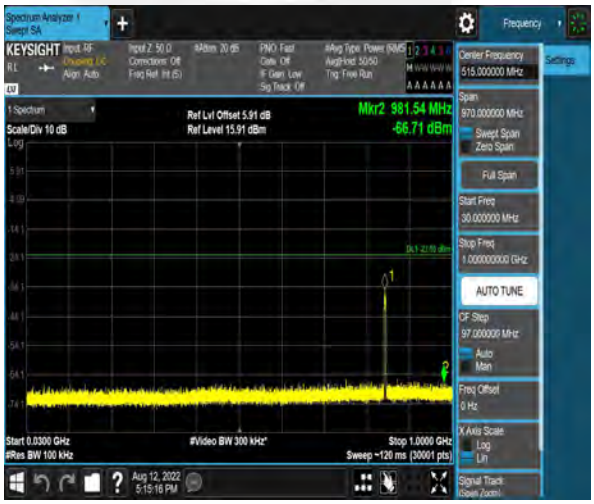
Band5-4233-0.009~0.15MHz



Band5-4233-0.15~30MHz



Band5-4233-30~1000MHz



Band5-4233-1000~3000MHz

Band5-4233-3000~10000MHz

Band5-4233-10000~18000MHz

Band5-4132-1-0.15~30MHz

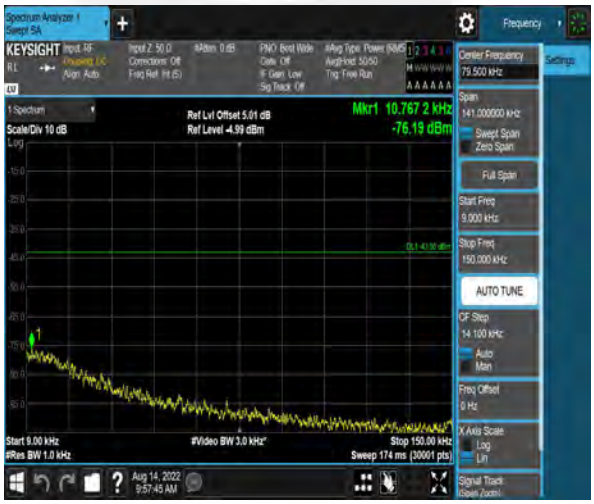
Band5-4132-1-30~1000MHz

Band5-4132-1-1000~3000MHz

Band5-4132-1-3000~10000MHz

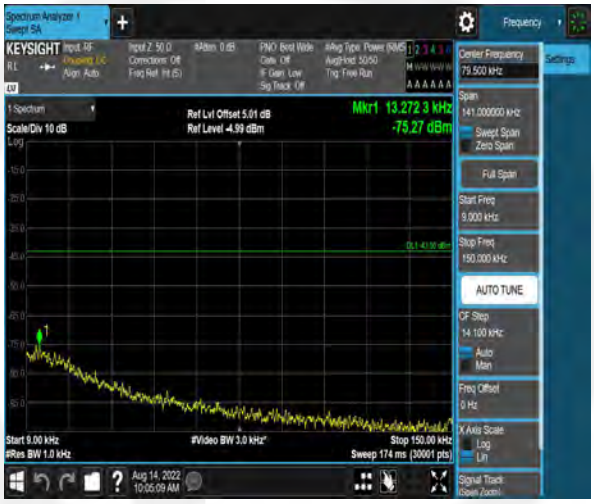
Band5-4132-1-10000~18000MHz

Band5-4132-1-0.009~0.15MHz



Band5-4132-2-1000~3000MHz

Band5-4132-2-0.009~0.15MHz



Band5-4132-2-3000~10000MHz

Band5-4132-2-30~1000MHz

Band5-4132-2-0.15~30MHz

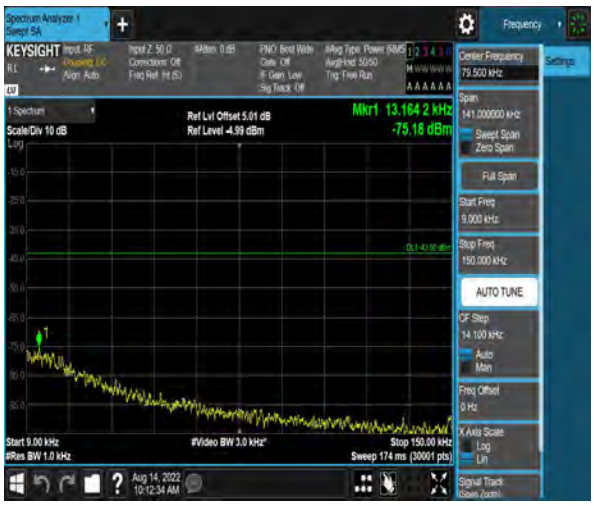
Band5-4132-2-10000~18000MHz

Band5-4132-3-0.15~30MHz

Band5-4132-3-30~1000MHz

Band5-4132-3-10000~18000MHz

Band5-4132-3-0.009~0.15MHz



Band5-4132-3-3000~10000MHz

Band5-4132-3-1000~3000MHz

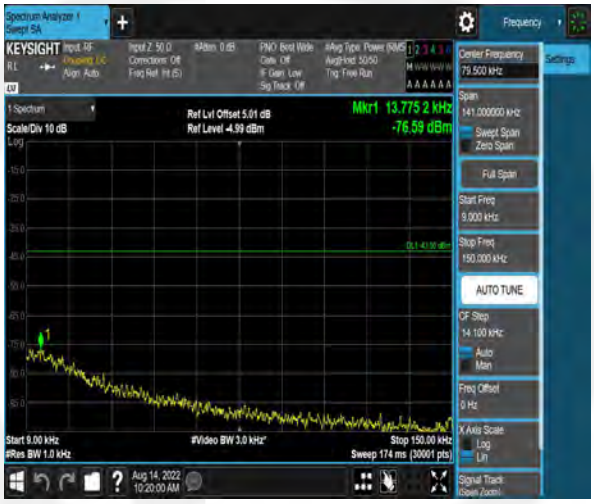
Band5-4132-4-0.15~30MHz

Band5-4132-4-30~1000MHz

Band5-4132-4-1000~3000MHz

Band5-4132-4-10000~18000MHz

Band5-4132-4-0.009~0.15MHz



Band5-4132-4-3000~10000MHz

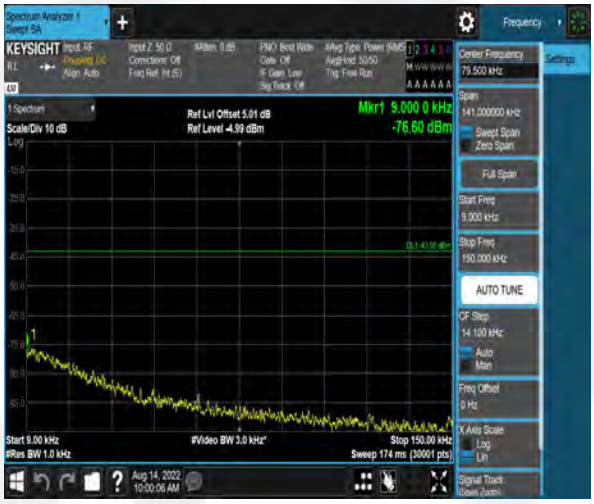
Band5-4183-1-10000~18000MHz

Band5-4183-1-3000~10000MHz

Band5-4183-1-1000~3000MHz

Band5-4183-1-30~1000MHz

Band5-4183-1-0.009~0.15MHz



Band5-4183-1-0.15~30MHz

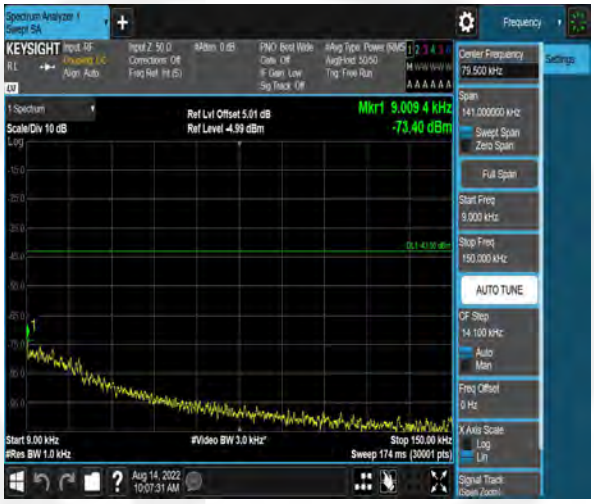
Band5-4183-2-0.15~30MHz

Band5-4183-2-30~1000MHz

Band5-4183-2-1000~3000MHz

Band5-4183-2-3000~10000MHz

Band5-4183-2-0.009~0.15MHz



Band5-4183-2-10000~18000MHz

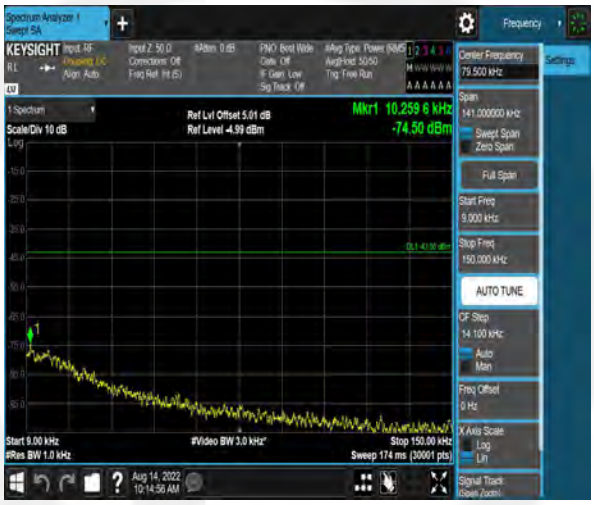
Band5-4183-3-1000~3000MHz

Band5-4183-3-30~1000MHz

Band5-4183-3-0.15~30MHz

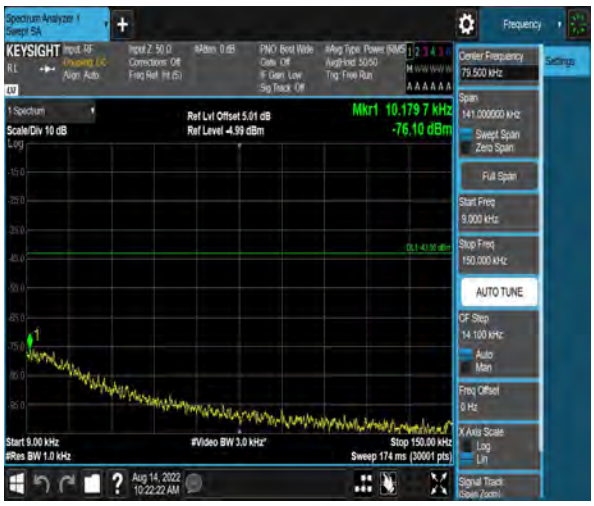
Band5-4183-3-3000~10000MHz

Band5-4183-3-0.009~0.15MHz

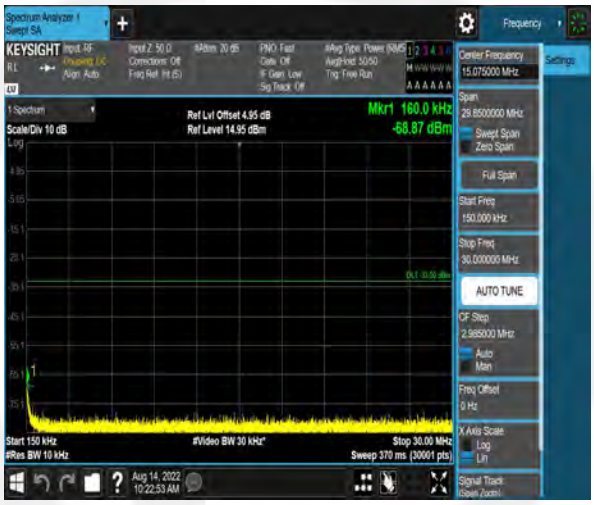


Band5-4183-3-10000~18000MHz

Band5-4183-4-0.009~0.15MHz



Band5-4183-4-0.15~30MHz



Band5-4183-4-30~1000MHz

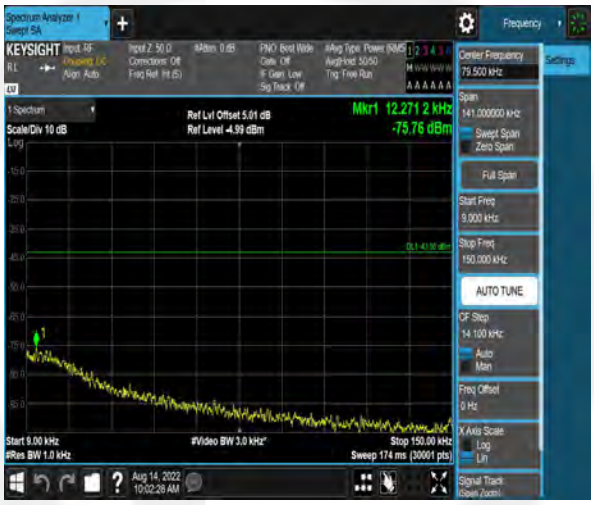
Band5-4183-4-1000~3000MHz

Band5-4183-4-3000~10000MHz

Band5-4183-4-10000~18000MHz

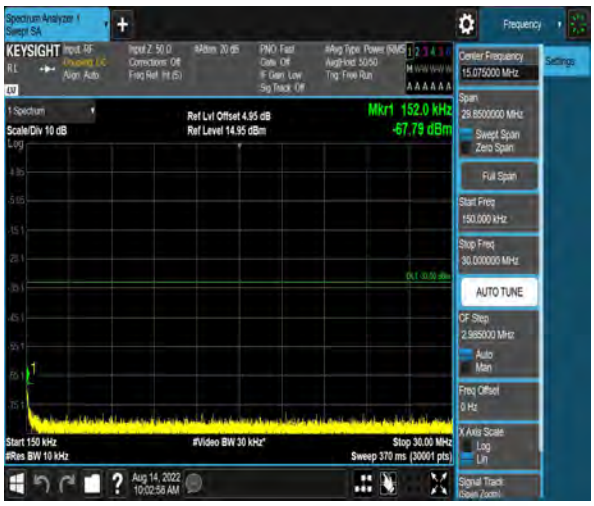
Band5-4233-1-10000~18000MHz

Band5-4233-1-0.009~0.15MHz



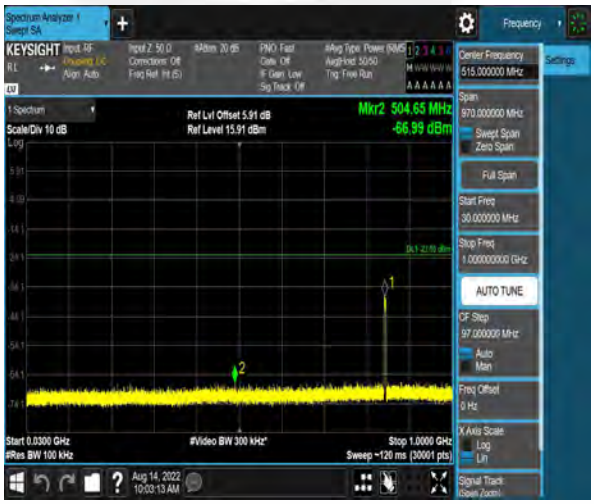
Band5-4233-1-3000~10000MHz

Band5-4233-1-0.15~30MHz



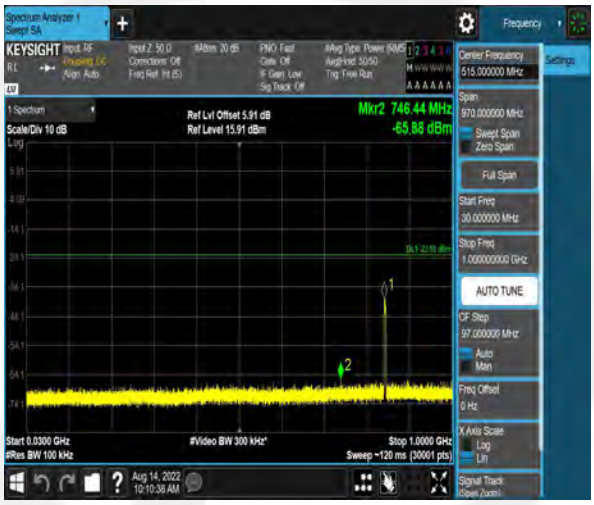
Band5-4233-1-1000~3000MHz

Band5-4233-1-30~1000MHz



Band5-4233-2-0.15~30MHz

Band5-4233-2-30~1000MHz

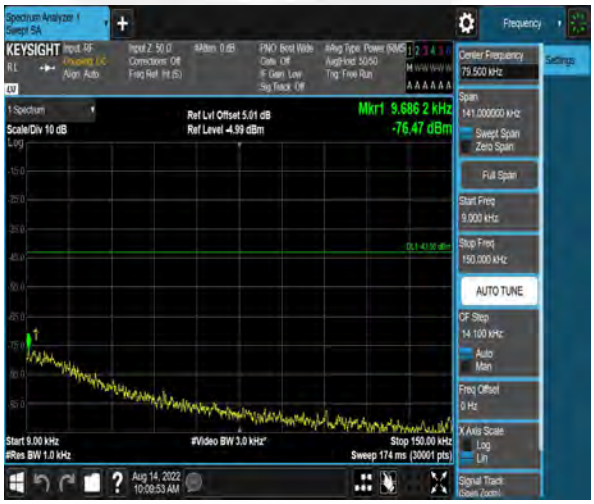


Band5-4233-2-1000~3000MHz

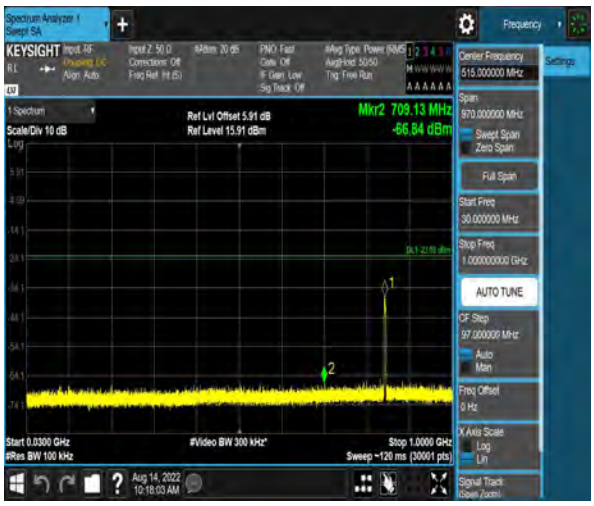
Band5-4233-2-10000~18000MHz

Band5-4233-2-3000~10000MHz

Band5-4233-2-0.009~0.15MHz



Band5-4233-3-30~1000MHz

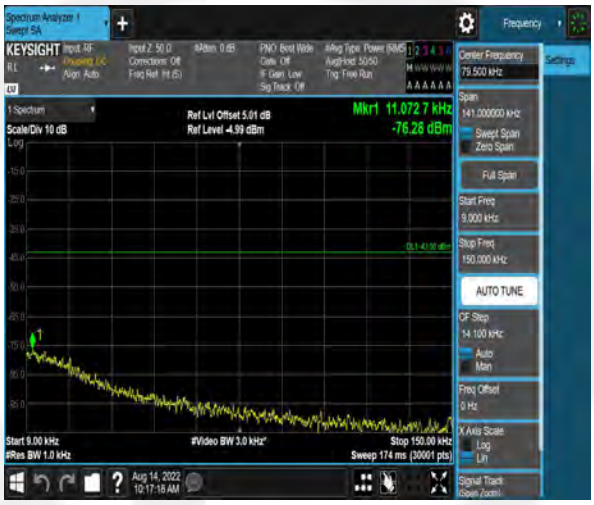


Band5-4233-3-10000~18000MHz

Band5-4233-3-1000~3000MHz

Band5-4233-3-0.15~30MHz

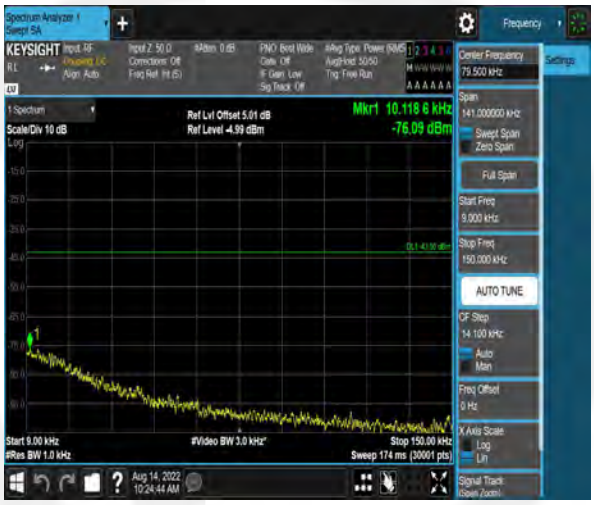
Band5-4233-3-0.009~0.15MHz



Band5-4233-3-3000~10000MHz

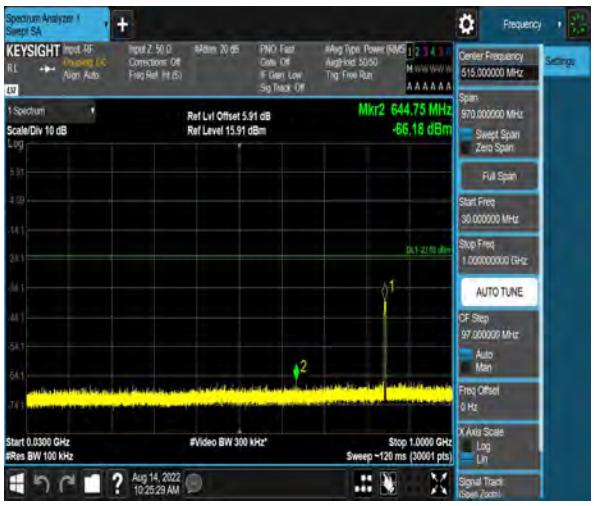
Band5-4233-4-10000~18000MHz

Band5-4233-4-0.009~0.15MHz



Band5-4233-4-0.15~30MHz

Band5-4233-4-30~1000MHz



Band5-4233-4-1000~3000MHz

Band5-4233-4-3000~10000MHz

Band5-4132-1-0.15~30MHz

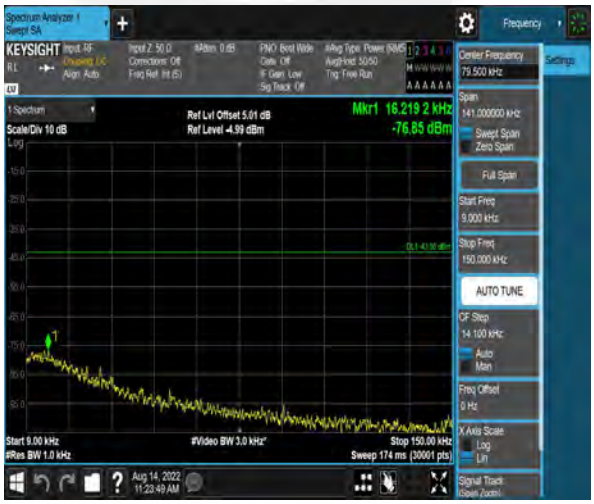
Band5-4132-1-30~1000MHz

Band5-4132-1-1000~3000MHz

Band5-4132-1-3000~10000MHz

Band5-4132-1-10000~18000MHz

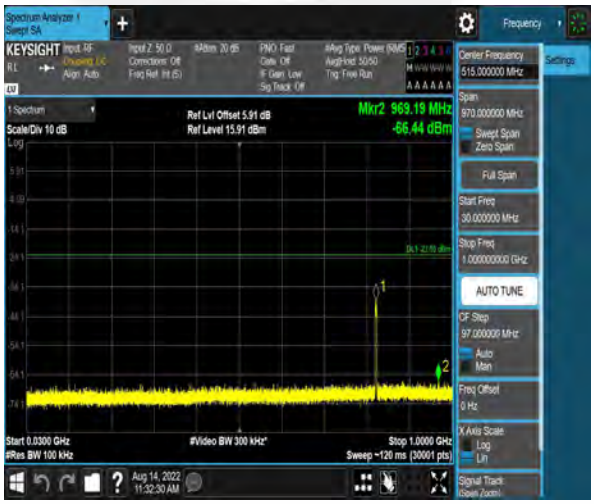
Band5-4132-1-0.009~0.15MHz



Band5-4132-2-1000~3000MHz

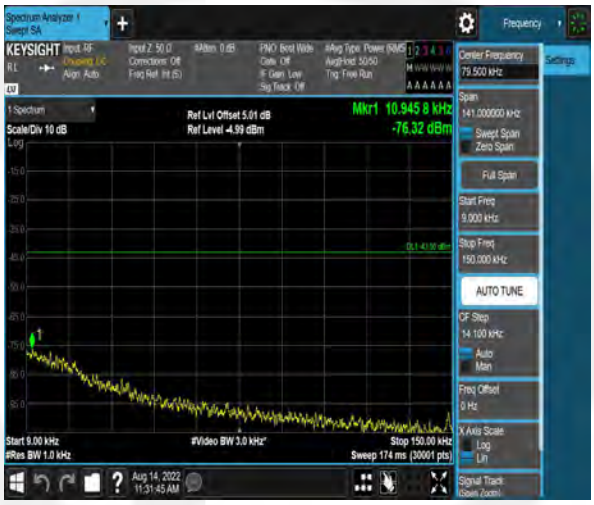
Band5-4132-2-3000~10000MHz

Band5-4132-2-30~1000MHz



Band5-4132-2-0.15~30MHz

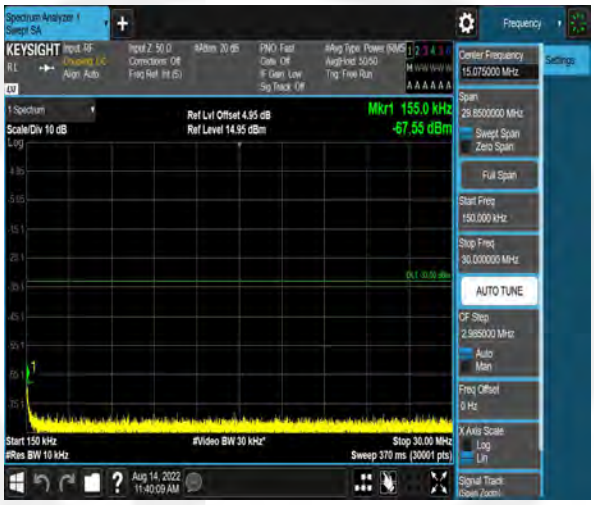
Band5-4132-2-0.009~0.15MHz



Band5-4132-2-10000~18000MHz

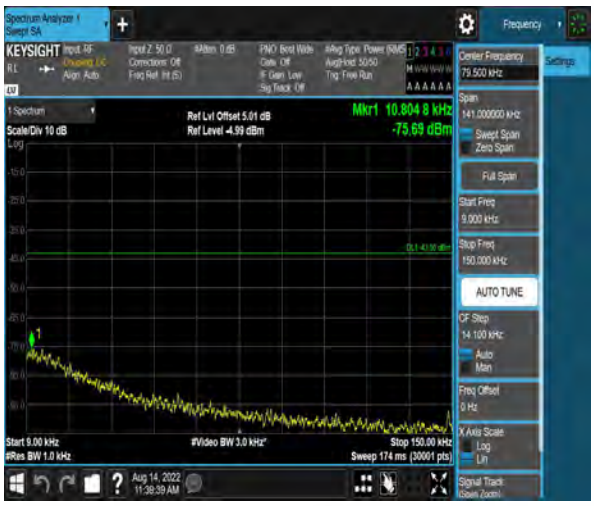
Band5-4132-3-10000~18000MHz

Band5-4132-3-0.15~30MHz



Band5-4132-3-30~1000MHz

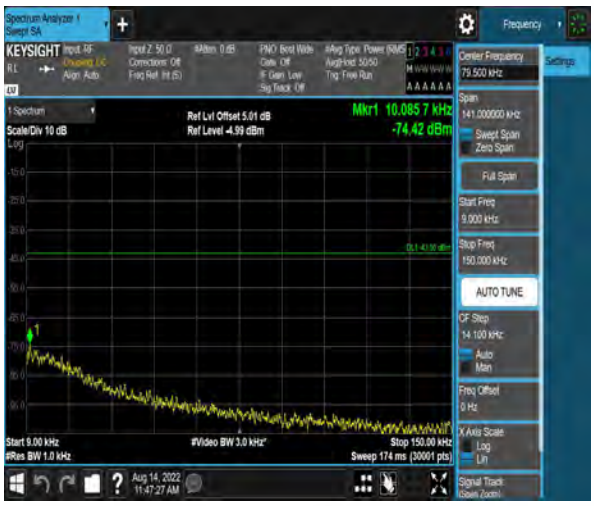
Band5-4132-3-0.009~0.15MHz



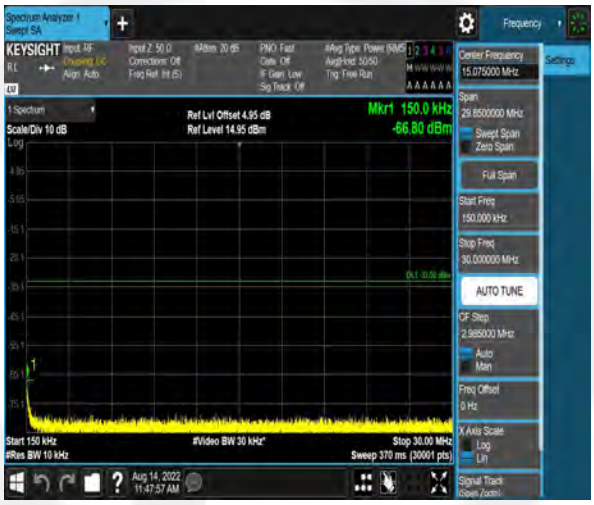
Band5-4132-3-3000~10000MHz

Band5-4132-3-1000~3000MHz

Band5-4132-4-0.009~0.15MHz



Band5-4132-4-0.15~30MHz



Band5-4132-4-30~1000MHz

Band5-4132-4-1000~3000MHz

Band5-4132-4-3000~10000MHz

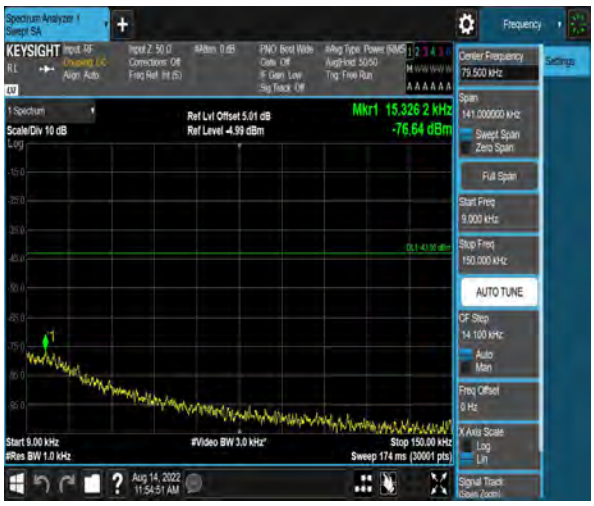
Band5-4132-4-10000~18000MHz

Band5-4132-5-1000~3000MHz

Band5-4132-5-10000~18000MHz

Band5-4132-5-3000~10000MHz

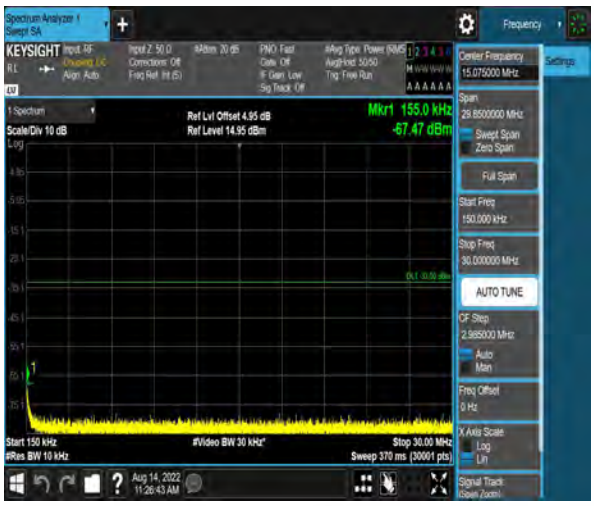
Band5-4132-5-0.009~0.15MHz



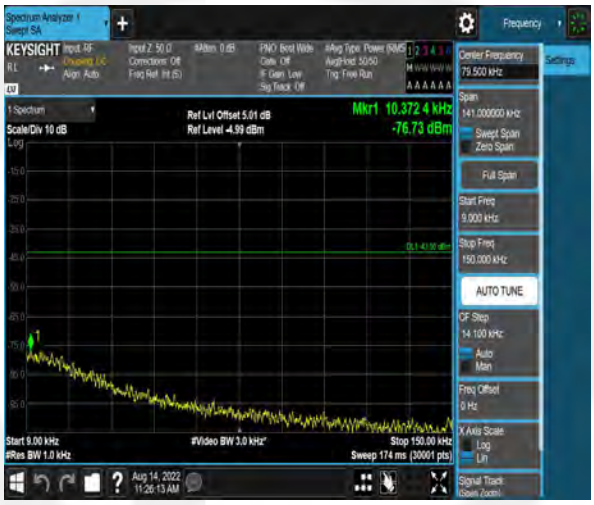
Band5-4132-5-30~1000MHz

Band5-4132-5-0.15~30MHz

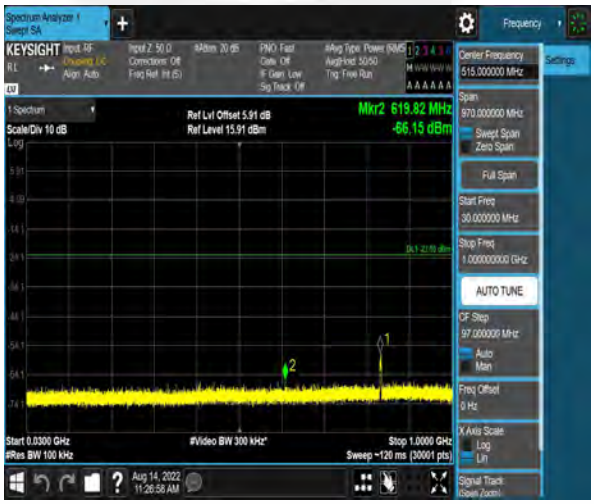
Band5-4183-1-0.15~30MHz



Band5-4183-1-0.009~0.15MHz



Band5-4183-1-30~1000MHz



Band5-4183-1-1000~3000MHz

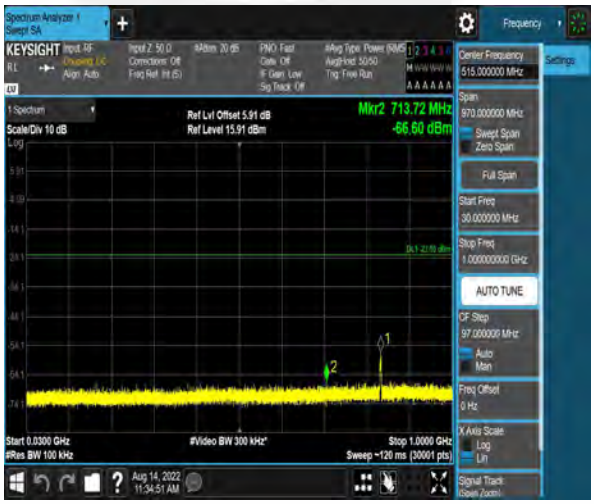
Band5-4183-1-3000~10000MHz

Band5-4183-1-10000~18000MHz

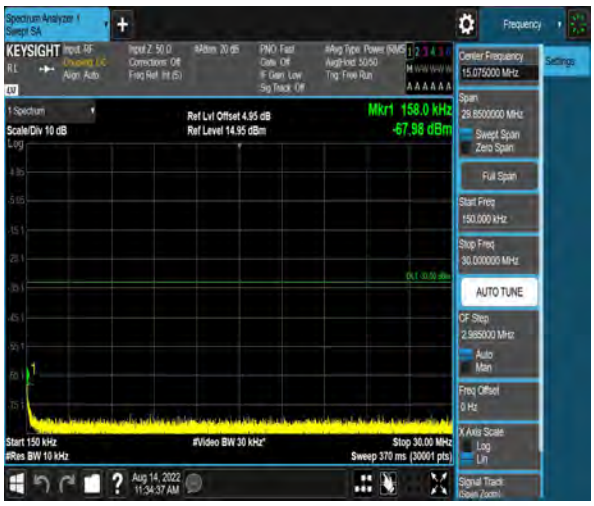
Band5-4183-2-1000~3000MHz

Band5-4183-2-3000~10000MHz

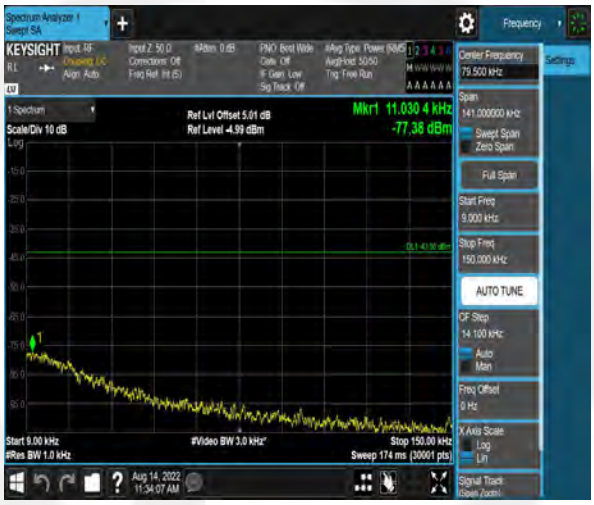
Band5-4183-2-30~1000MHz



Band5-4183-2-0.15~30MHz

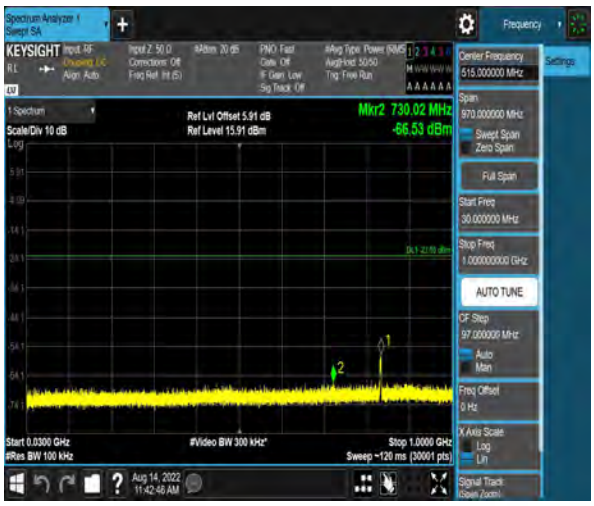


Band5-4183-2-0.009~0.15MHz

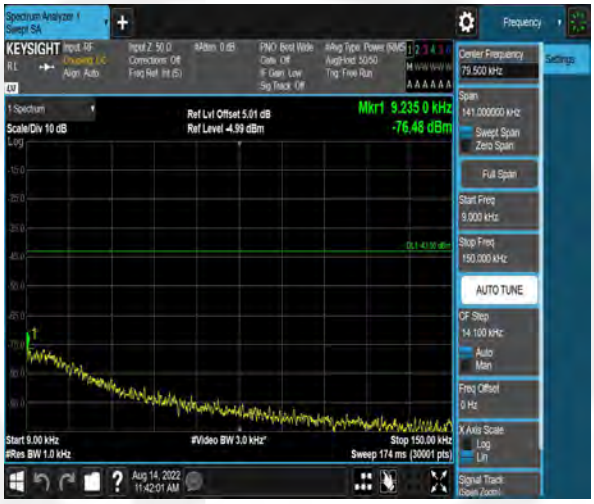


Band5-4183-2-10000~18000MHz

Band5-4183-3-30~1000MHz



Band5-4183-3-0.009~0.15MHz



Band5-4183-3-1000~3000MHz

Band5-4183-3-3000~10000MHz

Band5-4183-3-10000~18000MHz

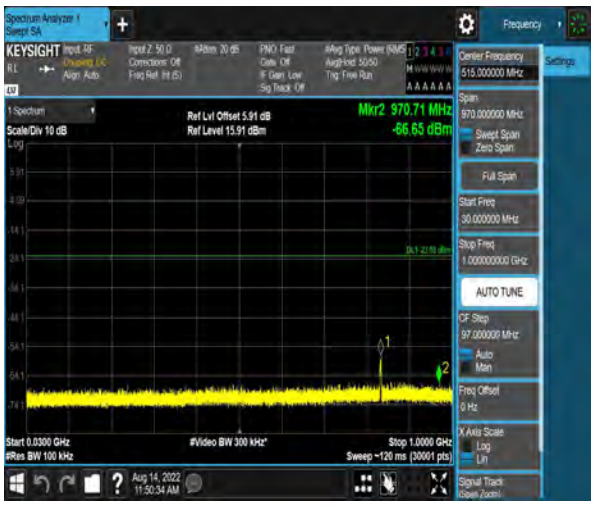
Band5-4183-3-0.15~30MHz

Band5-4183-4-0.15~30MHz

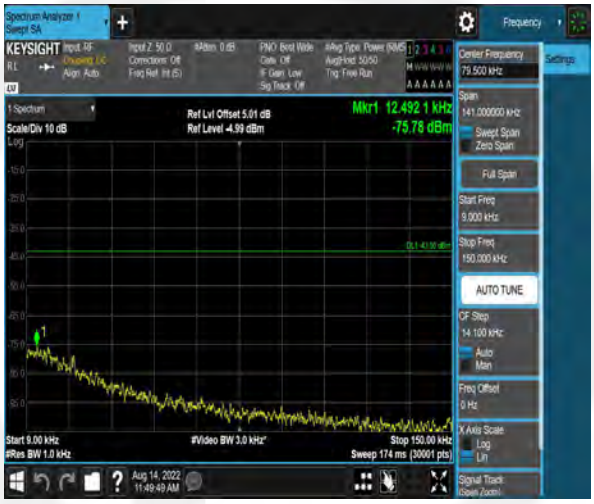
Band5-4183-4-10000~18000MHz

Band5-4183-4-3000~10000MHz

Band5-4183-4-30~1000MHz



Band5-4183-4-0.009~0.15MHz

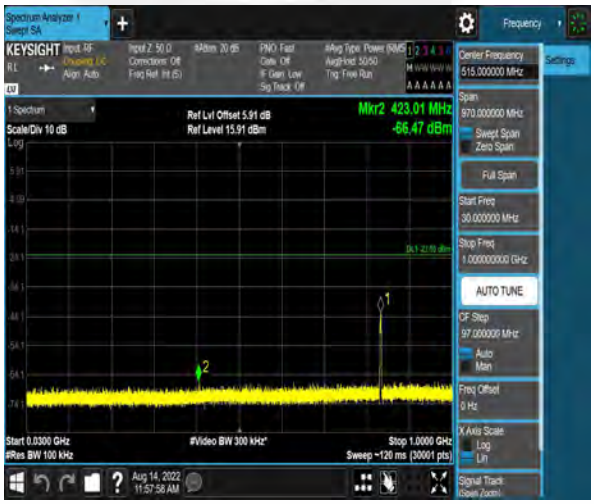


Band5-4183-4-1000~3000MHz

Band5-4183-5-10000~18000MHz

Band5-4183-5-0.15~30MHz

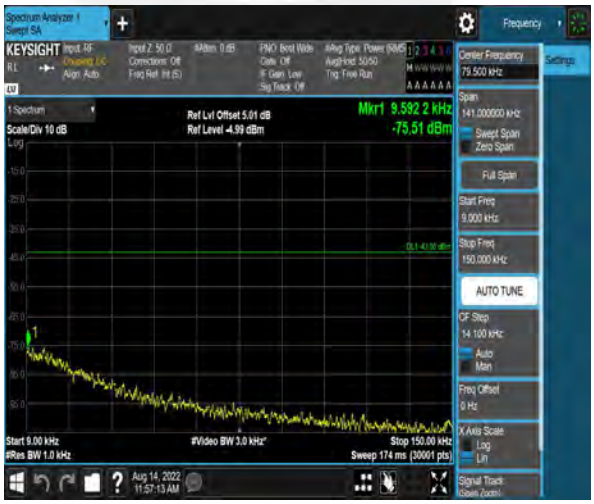
Band5-4183-5-30~1000MHz



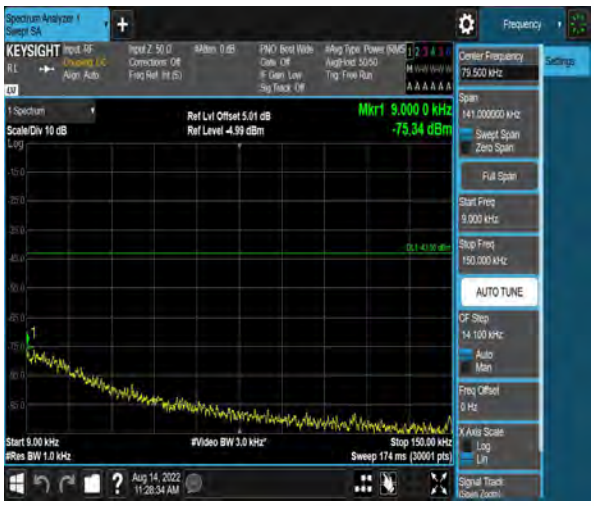
Band5-4183-5-1000~3000MHz

Band5-4183-5-3000~10000MHz

Band5-4183-5-0.009~0.15MHz



Band5-4233-1-0.009~0.15MHz



Band5-4233-1-0.15~30MHz

Band5-4233-1-30~1000MHz

Band5-4233-1-1000~3000MHz

Band5-4233-1-3000~10000MHz

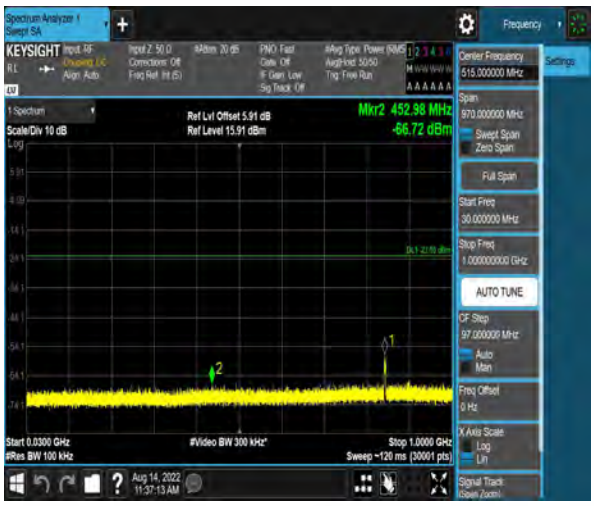
Band5-4233-1-10000~18000MHz

Band5-4233-2-1000~3000MHz

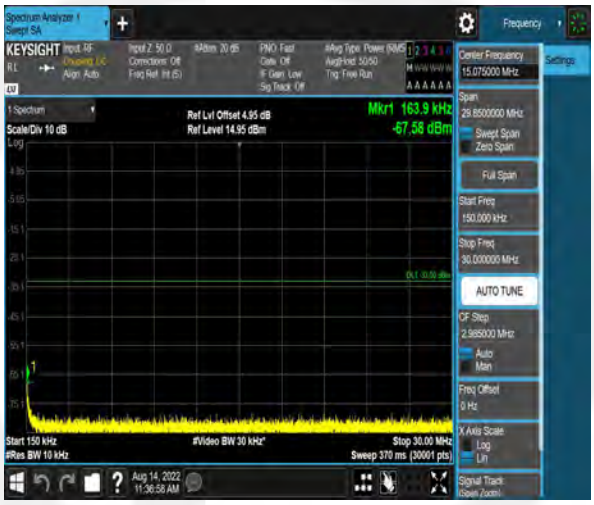
Band5-4233-2-10000~18000MHz

Band5-4233-2-3000~10000MHz

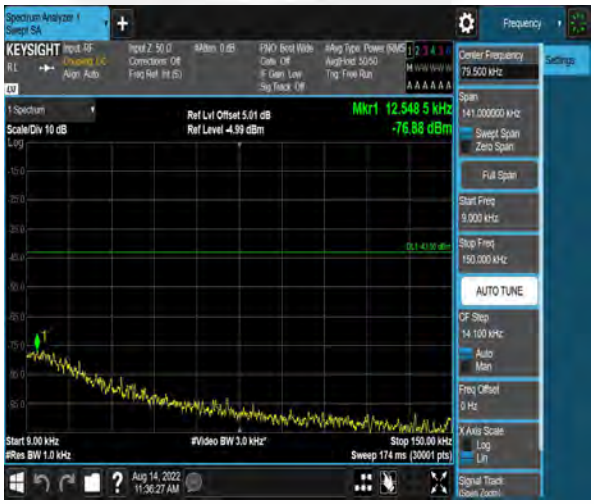
Band5-4233-2-30~1000MHz



Band5-4233-2-0.15~30MHz

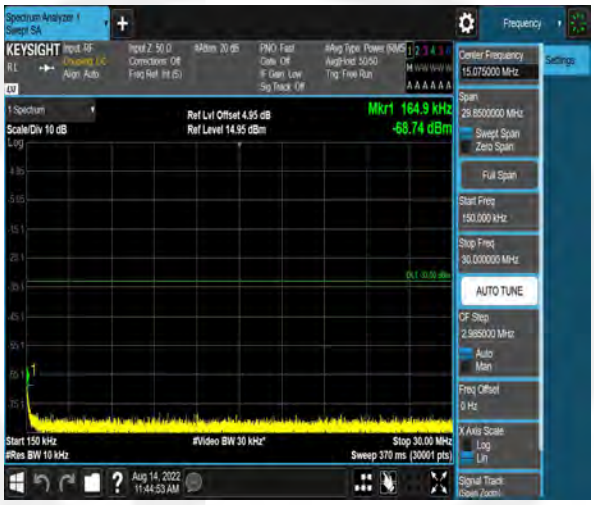


Band5-4233-2-0.009~0.15MHz



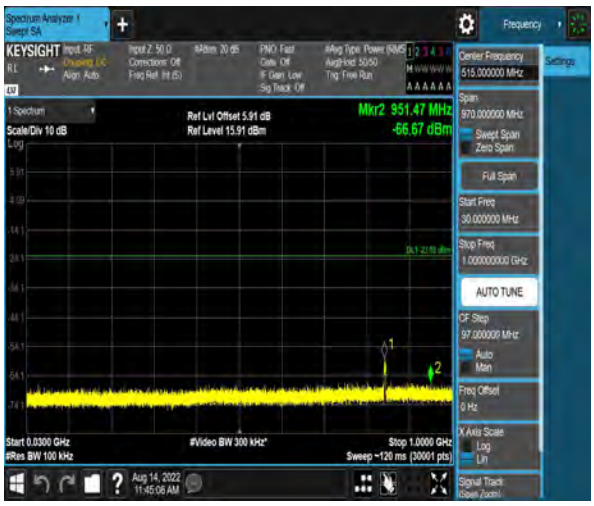
Band5-4233-3-3000~10000MHz

Band5-4233-3-0.15~30MHz



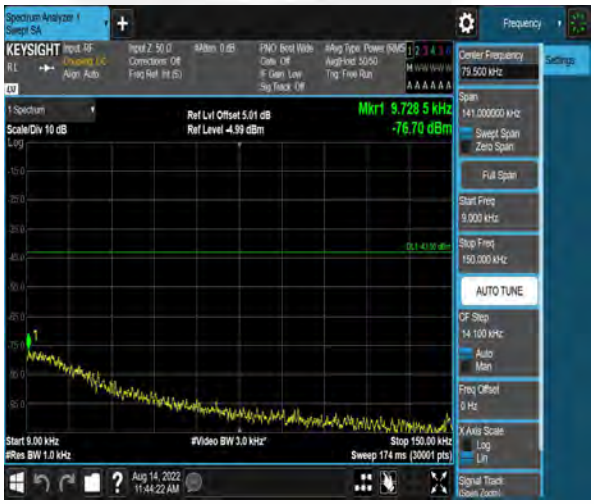
Band5-4233-3-10000~18000MHz

Band5-4233-3-30~1000MHz

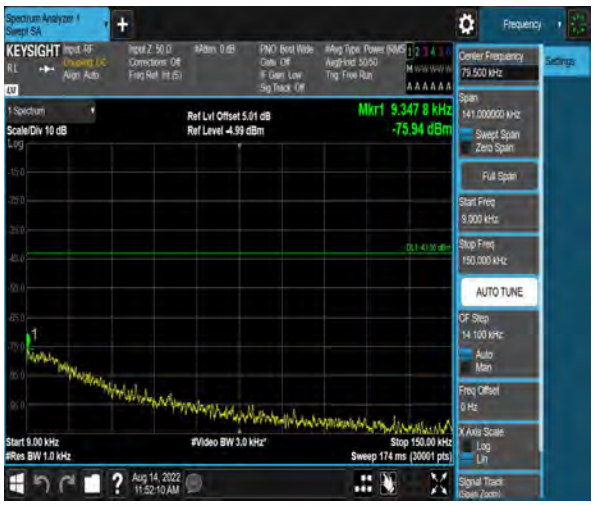


Band5-4233-3-1000~3000MHz

Band5-4233-3-0.009~0.15MHz



Band5-4233-4-0.009~0.15MHz

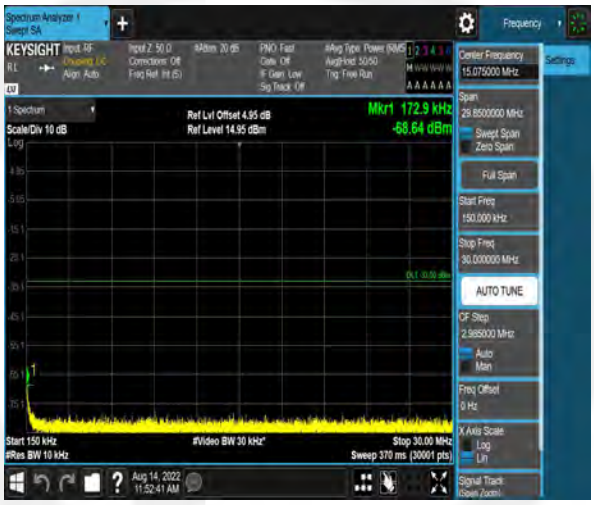


Band5-4233-4-10000~18000MHz

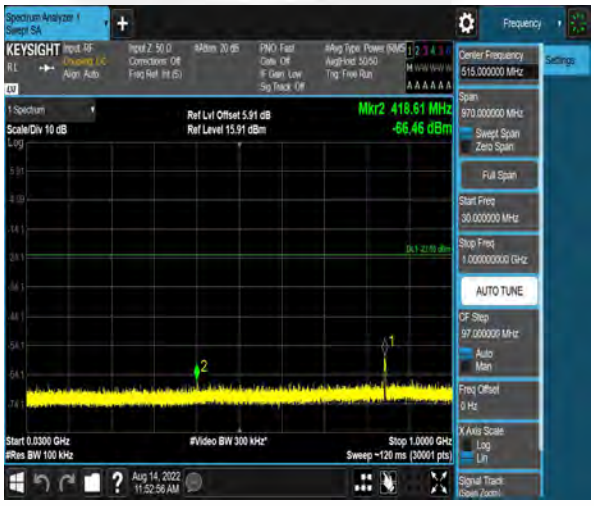
Band5-4233-4-3000~10000MHz

Band5-4233-4-1000~3000MHz

Band5-4233-4-0.15~30MHz

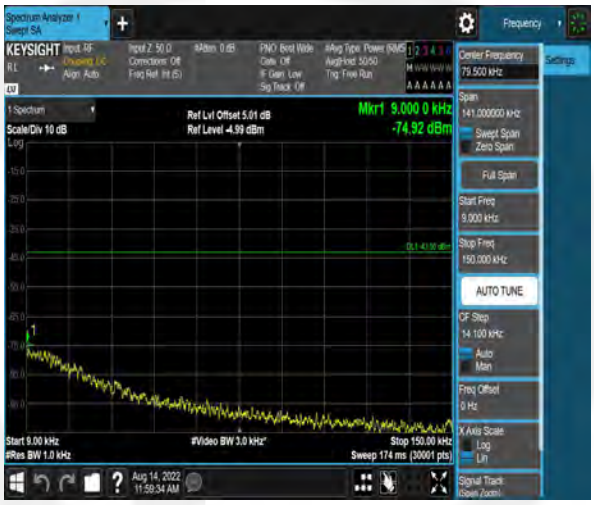


Band5-4233-4-30~1000MHz

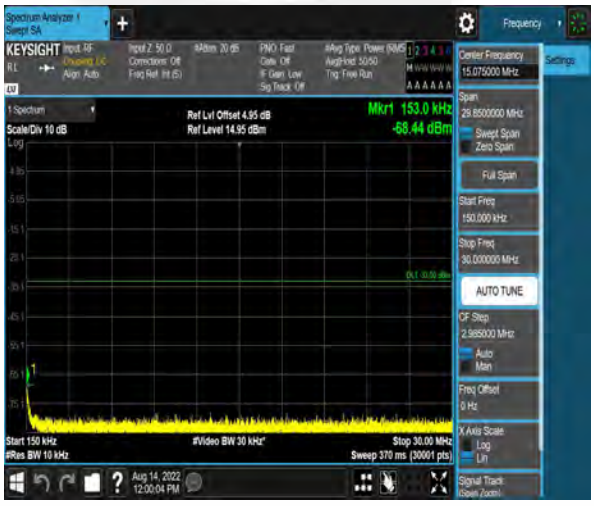


Band5-4233-5-10000~18000MHz

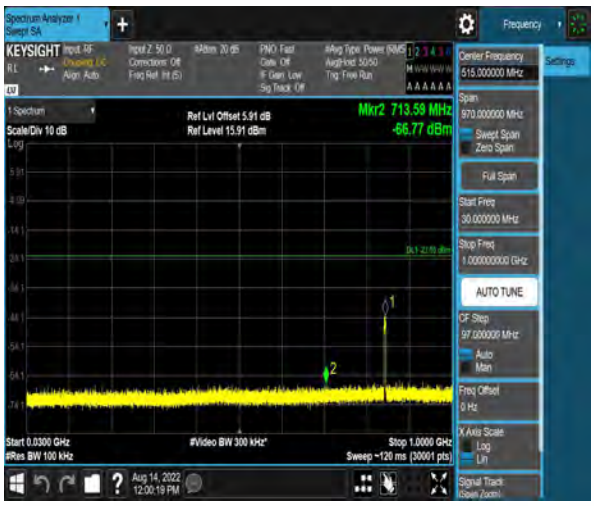
Band5-4233-5-0.009~0.15MHz



Band5-4233-5-0.15~30MHz



Band5-4233-5-30~1000MHz



Band5-4233-5-1000~3000MHz

Band5-4233-5-3000~10000MHz

AppendixF:Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4132	VL	NT	2.12	0.002565	±2.5	PASS
Band5	4132	VN	NT	2.02	0.002444	±2.5	PASS
Band5	4132	VH	NT	2.26	0.002735	±2.5	PASS
Band5	4183	VL	NT	-0.40	-0.000478	±2.5	PASS
Band5	4183	VN	NT	-0.54	-0.000645	±2.5	PASS
Band5	4183	VH	NT	-0.26	-0.000311	±2.5	PASS
Band5	4233	VL	NT	-3.33	-0.003933	±2.5	PASS
Band5	4233	VN	NT	-3.28	-0.003874	±2.5	PASS
Band5	4233	VH	NT	-3.61	-0.004264	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4132	NV	-30	2.20	0.002662	±2.5	PASS
Band5	4132	NV	-20	2.38	0.002880	±2.5	PASS
Band5	4132	NV	-10	2.07	0.002505	±2.5	PASS
Band5	4132	NV	0	2.49	0.003013	±2.5	PASS
Band5	4132	NV	10	2.35	0.002844	±2.5	PASS
Band5	4132	NV	20	2.70	0.003267	±2.5	PASS
Band5	4132	NV	30	2.73	0.003303	±2.5	PASS
Band5	4132	NV	40	2.58	0.003122	±2.5	PASS
Band5	4132	NV	50	2.55	0.003086	±2.5	PASS
Band5	4183	NV	-30	-0.42	-0.000502	±2.5	PASS
Band5	4183	NV	-20	-0.54	-0.000645	±2.5	PASS
Band5	4183	NV	-10	-0.37	-0.000442	±2.5	PASS
Band5	4183	NV	0	-0.49	-0.000586	±2.5	PASS
Band5	4183	NV	10	-0.31	-0.000371	±2.5	PASS
Band5	4183	NV	20	-0.41	-0.000490	±2.5	PASS
Band5	4183	NV	30	-0.61	-0.000729	±2.5	PASS
Band5	4183	NV	40	-0.46	-0.000550	±2.5	PASS
Band5	4183	NV	50	-0.22	-0.000263	±2.5	PASS

Band5	4233	NV	-30	-3.71	-0.004382	±2.5	PASS
Band5	4233	NV	-20	-3.11	-0.003674	±2.5	PASS
Band5	4233	NV	-10	-3.88	-0.004583	±2.5	PASS
Band5	4233	NV	0	-3.23	-0.003815	±2.5	PASS
Band5	4233	NV	10	-3.74	-0.004418	±2.5	PASS
Band5	4233	NV	20	-3.50	-0.004134	±2.5	PASS
Band5	4233	NV	30	-3.54	-0.004181	±2.5	PASS
Band5	4233	NV	40	-3.38	-0.003992	±2.5	PASS
Band5	4233	NV	50	-3.18	-0.003756	±2.5	PASS

Voltage								
Band	Channel	Sub Test	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4132	1	VL	NT	-3.48	-0.004211	±2.5	PASS
Band5	4132	1	VN	NT	-3.63	-0.004393	±2.5	PASS
Band5	4132	1	VH	NT	-3.47	-0.004199	±2.5	PASS
Band5	4132	2	VL	NT	-3.39	-0.004102	±2.5	PASS
Band5	4132	2	VN	NT	-3.43	-0.004151	±2.5	PASS
Band5	4132	2	VH	NT	-3.66	-0.004429	±2.5	PASS
Band5	4132	3	VL	NT	-3.38	-0.004090	±2.5	PASS
Band5	4132	3	VN	NT	-3.71	-0.004489	±2.5	PASS
Band5	4132	3	VH	NT	-3.74	-0.004526	±2.5	PASS
Band5	4132	4	VL	NT	-3.09	-0.003739	±2.5	PASS
Band5	4132	4	VN	NT	-3.70	-0.004477	±2.5	PASS
Band5	4132	4	VH	NT	-3.39	-0.004102	±2.5	PASS
Band5	4183	1	VL	NT	-3.24	-0.003873	±2.5	PASS
Band5	4183	1	VN	NT	-3.45	-0.004124	±2.5	PASS
Band5	4183	1	VH	NT	-3.66	-0.004375	±2.5	PASS
Band5	4183	2	VL	NT	-3.12	-0.003729	±2.5	PASS
Band5	4183	2	VN	NT	-3.74	-0.004470	±2.5	PASS
Band5	4183	2	VH	NT	-3.81	-0.004554	±2.5	PASS
Band5	4183	3	VL	NT	-3.55	-0.004243	±2.5	PASS
Band5	4183	3	VN	NT	-3.73	-0.004459	±2.5	PASS
Band5	4183	3	VH	NT	-3.42	-0.004088	±2.5	PASS
Band5	4183	4	VL	NT	-3.59	-0.004291	±2.5	PASS
Band5	4183	4	VN	NT	-3.13	-0.003741	±2.5	PASS
Band5	4183	4	VH	NT	-3.65	-0.004363	±2.5	PASS
Band5	4233	1	VL	NT	-3.57	-0.004217	±2.5	PASS
Band5	4233	1	VN	NT	-3.58	-0.004229	±2.5	PASS
Band5	4233	1	VH	NT	-3.55	-0.004193	±2.5	PASS
Band5	4233	2	VL	NT	-3.36	-0.003969	±2.5	PASS
Band5	4233	2	VN	NT	-3.79	-0.004477	±2.5	PASS
Band5	4233	2	VH	NT	-3.97	-0.004689	±2.5	PASS
Band5	4233	3	VL	NT	-3.35	-0.003957	±2.5	PASS
Band5	4233	3	VN	NT	-3.15	-0.003721	±2.5	PASS
Band5	4233	3	VH	NT	-3.81	-0.004500	±2.5	PASS

Band5	4233	4	VL	NT	-3.31	-0.003910	±2.5	PASS
Band5	4233	4	VN	NT	-3.38	-0.003992	±2.5	PASS
Band5	4233	4	VH	NT	-3.25	-0.003839	±2.5	PASS

Temperature								
Band	Channel	Sub Test	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4132	1	NV	-30	-3.40	-0.004114	±2.5	PASS
Band5	4132	1	NV	-20	-3.87	-0.004683	±2.5	PASS
Band5	4132	1	NV	-10	-3.21	-0.003884	±2.5	PASS
Band5	4132	1	NV	0	-3.62	-0.004380	±2.5	PASS
Band5	4132	1	NV	10	-3.47	-0.004199	±2.5	PASS
Band5	4132	1	NV	20	-3.55	-0.004296	±2.5	PASS
Band5	4132	1	NV	30	-3.40	-0.004114	±2.5	PASS
Band5	4132	1	NV	40	-3.20	-0.003872	±2.5	PASS
Band5	4132	1	NV	50	-3.36	-0.004066	±2.5	PASS
Band5	4132	2	NV	-30	-3.61	-0.004368	±2.5	PASS
Band5	4132	2	NV	-20	-3.48	-0.004211	±2.5	PASS
Band5	4132	2	NV	-10	-3.98	-0.004816	±2.5	PASS
Band5	4132	2	NV	0	-3.44	-0.004163	±2.5	PASS
Band5	4132	2	NV	10	-3.26	-0.003945	±2.5	PASS
Band5	4132	2	NV	20	-3.58	-0.004332	±2.5	PASS
Band5	4132	2	NV	30	-3.25	-0.003933	±2.5	PASS
Band5	4132	2	NV	40	-4.50	-0.005445	±2.5	PASS
Band5	4132	2	NV	50	-3.50	-0.004235	±2.5	PASS
Band5	4132	3	NV	-30	-3.19	-0.003860	±2.5	PASS
Band5	4132	3	NV	-20	-3.65	-0.004417	±2.5	PASS
Band5	4132	3	NV	-10	-3.72	-0.004501	±2.5	PASS
Band5	4132	3	NV	0	-3.13	-0.003788	±2.5	PASS
Band5	4132	3	NV	10	-4.09	-0.004949	±2.5	PASS
Band5	4132	3	NV	20	-3.55	-0.004296	±2.5	PASS
Band5	4132	3	NV	30	-3.68	-0.004453	±2.5	PASS
Band5	4132	3	NV	40	-3.47	-0.004199	±2.5	PASS
Band5	4132	3	NV	50	-3.53	-0.004272	±2.5	PASS
Band5	4132	4	NV	-30	-3.34	-0.004042	±2.5	PASS
Band5	4132	4	NV	-20	-4.00	-0.004840	±2.5	PASS

Band5	4132	4	NV	-10	-3.88	-0.004695	±2.5	PASS
Band5	4132	4	NV	0	-3.62	-0.004380	±2.5	PASS
Band5	4132	4	NV	10	-3.51	-0.004247	±2.5	PASS
Band5	4132	4	NV	20	-3.18	-0.003848	±2.5	PASS
Band5	4132	4	NV	30	-3.40	-0.004114	±2.5	PASS
Band5	4132	4	NV	40	-3.57	-0.004320	±2.5	PASS
Band5	4132	4	NV	50	-3.89	-0.004707	±2.5	PASS
Band5	4183	1	NV	-30	-3.62	-0.004327	±2.5	PASS
Band5	4183	1	NV	-20	-3.35	-0.004004	±2.5	PASS
Band5	4183	1	NV	-10	-3.37	-0.004028	±2.5	PASS
Band5	4183	1	NV	0	-3.69	-0.004411	±2.5	PASS
Band5	4183	1	NV	10	-3.22	-0.003849	±2.5	PASS
Band5	4183	1	NV	20	-3.34	-0.003992	±2.5	PASS
Band5	4183	1	NV	30	-3.65	-0.004363	±2.5	PASS
Band5	4183	1	NV	40	-3.27	-0.003909	±2.5	PASS
Band5	4183	1	NV	50	-3.61	-0.004315	±2.5	PASS
Band5	4183	2	NV	-30	-3.33	-0.003980	±2.5	PASS
Band5	4183	2	NV	-20	-4.16	-0.004973	±2.5	PASS
Band5	4183	2	NV	-10	-3.53	-0.004219	±2.5	PASS
Band5	4183	2	NV	0	-3.26	-0.003897	±2.5	PASS
Band5	4183	2	NV	10	-3.57	-0.004267	±2.5	PASS
Band5	4183	2	NV	20	-3.84	-0.004590	±2.5	PASS
Band5	4183	2	NV	30	-3.04	-0.003634	±2.5	PASS
Band5	4183	2	NV	40	-3.63	-0.004339	±2.5	PASS
Band5	4183	2	NV	50	-3.60	-0.004303	±2.5	PASS
Band5	4183	3	NV	-30	-3.88	-0.004638	±2.5	PASS
Band5	4183	3	NV	-20	-3.47	-0.004148	±2.5	PASS
Band5	4183	3	NV	-10	-3.55	-0.004243	±2.5	PASS
Band5	4183	3	NV	0	-3.70	-0.004423	±2.5	PASS
Band5	4183	3	NV	10	-3.72	-0.004447	±2.5	PASS
Band5	4183	3	NV	20	-3.20	-0.003825	±2.5	PASS
Band5	4183	3	NV	30	-3.36	-0.004016	±2.5	PASS
Band5	4183	3	NV	40	-3.36	-0.004016	±2.5	PASS
Band5	4183	3	NV	50	-3.48	-0.004160	±2.5	PASS
Band5	4183	4	NV	-30	-3.71	-0.004435	±2.5	PASS
Band5	4183	4	NV	-20	-3.47	-0.004148	±2.5	PASS

Band5	4183	4	NV	-10	-3.52	-0.004208	±2.5	PASS
Band5	4183	4	NV	0	-3.48	-0.004160	±2.5	PASS
Band5	4183	4	NV	10	-3.72	-0.004447	±2.5	PASS
Band5	4183	4	NV	20	-3.63	-0.004339	±2.5	PASS
Band5	4183	4	NV	30	-4.15	-0.004961	±2.5	PASS
Band5	4183	4	NV	40	-3.36	-0.004016	±2.5	PASS
Band5	4183	4	NV	50	-3.43	-0.004100	±2.5	PASS
Band5	4233	1	NV	-30	-3.45	-0.004075	±2.5	PASS
Band5	4233	1	NV	-20	-3.64	-0.004300	±2.5	PASS
Band5	4233	1	NV	-10	-3.67	-0.004335	±2.5	PASS
Band5	4233	1	NV	0	-3.65	-0.004311	±2.5	PASS
Band5	4233	1	NV	10	-3.68	-0.004347	±2.5	PASS
Band5	4233	1	NV	20	-3.39	-0.004004	±2.5	PASS
Band5	4233	1	NV	30	-3.58	-0.004229	±2.5	PASS
Band5	4233	1	NV	40	-3.09	-0.003650	±2.5	PASS
Band5	4233	1	NV	50	-3.61	-0.004264	±2.5	PASS
Band5	4233	2	NV	-30	-3.48	-0.004111	±2.5	PASS
Band5	4233	2	NV	-20	-3.45	-0.004075	±2.5	PASS
Band5	4233	2	NV	-10	-3.48	-0.004111	±2.5	PASS
Band5	4233	2	NV	0	-3.68	-0.004347	±2.5	PASS
Band5	4233	2	NV	10	-3.60	-0.004252	±2.5	PASS
Band5	4233	2	NV	20	-3.88	-0.004583	±2.5	PASS
Band5	4233	2	NV	30	-3.63	-0.004288	±2.5	PASS
Band5	4233	2	NV	40	-3.61	-0.004264	±2.5	PASS
Band5	4233	2	NV	50	-3.55	-0.004193	±2.5	PASS
Band5	4233	3	NV	-30	-3.18	-0.003756	±2.5	PASS
Band5	4233	3	NV	-20	-3.08	-0.003638	±2.5	PASS
Band5	4233	3	NV	-10	-3.38	-0.003992	±2.5	PASS
Band5	4233	3	NV	0	-3.32	-0.003922	±2.5	PASS
Band5	4233	3	NV	10	-3.96	-0.004678	±2.5	PASS
Band5	4233	3	NV	20	-3.62	-0.004276	±2.5	PASS
Band5	4233	3	NV	30	-3.59	-0.004240	±2.5	PASS
Band5	4233	3	NV	40	-3.86	-0.004559	±2.5	PASS
Band5	4233	3	NV	50	-3.95	-0.004666	±2.5	PASS
Band5	4233	4	NV	-30	-3.55	-0.004193	±2.5	PASS
Band5	4233	4	NV	-20	-3.48	-0.004111	±2.5	PASS

Band5	4233	4	NV	-10	-3.41	-0.004028	±2.5	PASS
Band5	4233	4	NV	0	-3.39	-0.004004	±2.5	PASS
Band5	4233	4	NV	10	-3.45	-0.004075	±2.5	PASS
Band5	4233	4	NV	20	-2.78	-0.003284	±2.5	PASS
Band5	4233	4	NV	30	-3.38	-0.003992	±2.5	PASS
Band5	4233	4	NV	40	-3.65	-0.004311	±2.5	PASS
Band5	4233	4	NV	50	-3.35	-0.003957	±2.5	PASS

Voltage								
Band	Channel	Sub Test	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4132	1	VL	NT	-3.88	-0.004695	±2.5	PASS
Band5	4132	1	VN	NT	-4.16	-0.005034	±2.5	PASS
Band5	4132	1	VH	NT	-3.91	-0.004731	±2.5	PASS
Band5	4132	2	VL	NT	-3.52	-0.004259	±2.5	PASS
Band5	4132	2	VN	NT	-3.25	-0.003933	±2.5	PASS
Band5	4132	2	VH	NT	-3.34	-0.004042	±2.5	PASS
Band5	4132	3	VL	NT	-3.65	-0.004417	±2.5	PASS
Band5	4132	3	VN	NT	-3.70	-0.004477	±2.5	PASS
Band5	4132	3	VH	NT	-3.65	-0.004417	±2.5	PASS
Band5	4132	4	VL	NT	-3.79	-0.004586	±2.5	PASS
Band5	4132	4	VN	NT	-3.64	-0.004405	±2.5	PASS
Band5	4132	4	VH	NT	-3.85	-0.004659	±2.5	PASS
Band5	4132	5	VL	NT	-3.50	-0.004235	±2.5	PASS
Band5	4132	5	VN	NT	-3.93	-0.004756	±2.5	PASS
Band5	4132	5	VH	NT	-3.36	-0.004066	±2.5	PASS
Band5	4183	1	VL	NT	-3.45	-0.004124	±2.5	PASS
Band5	4183	1	VN	NT	-3.36	-0.004016	±2.5	PASS
Band5	4183	1	VH	NT	-4.32	-0.005164	±2.5	PASS
Band5	4183	2	VL	NT	-3.43	-0.004100	±2.5	PASS
Band5	4183	2	VN	NT	-3.50	-0.004184	±2.5	PASS
Band5	4183	2	VH	NT	-3.46	-0.004136	±2.5	PASS
Band5	4183	3	VL	NT	-3.62	-0.004327	±2.5	PASS
Band5	4183	3	VN	NT	-3.68	-0.004399	±2.5	PASS
Band5	4183	3	VH	NT	-3.30	-0.003945	±2.5	PASS
Band5	4183	4	VL	NT	-3.58	-0.004279	±2.5	PASS
Band5	4183	4	VN	NT	-3.74	-0.004470	±2.5	PASS
Band5	4183	4	VH	NT	-3.69	-0.004411	±2.5	PASS
Band5	4183	5	VL	NT	-3.45	-0.004124	±2.5	PASS
Band5	4183	5	VN	NT	-3.71	-0.004435	±2.5	PASS
Band5	4183	5	VH	NT	-3.50	-0.004184	±2.5	PASS
Band5	4233	1	VL	NT	-3.55	-0.004193	±2.5	PASS
Band5	4233	1	VN	NT	-3.39	-0.004004	±2.5	PASS
Band5	4233	1	VH	NT	-3.57	-0.004217	±2.5	PASS

Band5	4233	2	VL	NT	-3.76	-0.004441	±2.5	PASS
Band5	4233	2	VN	NT	-3.98	-0.004701	±2.5	PASS
Band5	4233	2	VH	NT	-3.53	-0.004170	±2.5	PASS
Band5	4233	3	VL	NT	-3.28	-0.003874	±2.5	PASS
Band5	4233	3	VN	NT	-3.54	-0.004181	±2.5	PASS
Band5	4233	3	VH	NT	-3.96	-0.004678	±2.5	PASS
Band5	4233	4	VL	NT	-3.42	-0.004040	±2.5	PASS
Band5	4233	4	VN	NT	-3.63	-0.004288	±2.5	PASS
Band5	4233	4	VH	NT	-3.44	-0.004063	±2.5	PASS
Band5	4233	5	VL	NT	-3.83	-0.004524	±2.5	PASS
Band5	4233	5	VN	NT	-3.79	-0.004477	±2.5	PASS
Band5	4233	5	VH	NT	-3.56	-0.004205	±2.5	PASS

Temperature								
Band	Channel	Sub Test	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4132	1	NV	-30	-4.03	-0.004877	±2.5	PASS
Band5	4132	1	NV	-20	-3.76	-0.004550	±2.5	PASS
Band5	4132	1	NV	-10	-3.71	-0.004489	±2.5	PASS
Band5	4132	1	NV	0	-3.71	-0.004489	±2.5	PASS
Band5	4132	1	NV	10	-3.68	-0.004453	±2.5	PASS
Band5	4132	1	NV	20	-3.26	-0.003945	±2.5	PASS
Band5	4132	1	NV	30	-3.63	-0.004393	±2.5	PASS
Band5	4132	1	NV	40	-3.35	-0.004054	±2.5	PASS
Band5	4132	1	NV	50	-3.48	-0.004211	±2.5	PASS
Band5	4132	2	NV	-30	-3.55	-0.004296	±2.5	PASS
Band5	4132	2	NV	-20	-3.63	-0.004393	±2.5	PASS
Band5	4132	2	NV	-10	-3.53	-0.004272	±2.5	PASS
Band5	4132	2	NV	0	-3.83	-0.004635	±2.5	PASS
Band5	4132	2	NV	10	-3.55	-0.004296	±2.5	PASS
Band5	4132	2	NV	20	-3.63	-0.004393	±2.5	PASS
Band5	4132	2	NV	30	-3.51	-0.004247	±2.5	PASS
Band5	4132	2	NV	40	-3.76	-0.004550	±2.5	PASS
Band5	4132	2	NV	50	-3.45	-0.004175	±2.5	PASS
Band5	4132	3	NV	-30	-3.30	-0.003993	±2.5	PASS
Band5	4132	3	NV	-20	-3.53	-0.004272	±2.5	PASS

Band5	4132	3	NV	-10	-3.49	-0.004223	±2.5	PASS
Band5	4132	3	NV	0	-3.40	-0.004114	±2.5	PASS
Band5	4132	3	NV	10	-3.51	-0.004247	±2.5	PASS
Band5	4132	3	NV	20	-3.65	-0.004417	±2.5	PASS
Band5	4132	3	NV	30	-3.88	-0.004695	±2.5	PASS
Band5	4132	3	NV	40	-3.41	-0.004126	±2.5	PASS
Band5	4132	3	NV	50	-3.53	-0.004272	±2.5	PASS
Band5	4132	4	NV	-30	-3.18	-0.003848	±2.5	PASS
Band5	4132	4	NV	-20	-3.54	-0.004284	±2.5	PASS
Band5	4132	4	NV	-10	-3.68	-0.004453	±2.5	PASS
Band5	4132	4	NV	0	-3.71	-0.004489	±2.5	PASS
Band5	4132	4	NV	10	-3.37	-0.004078	±2.5	PASS
Band5	4132	4	NV	20	-3.71	-0.004489	±2.5	PASS
Band5	4132	4	NV	30	-3.87	-0.004683	±2.5	PASS
Band5	4132	4	NV	40	-3.66	-0.004429	±2.5	PASS
Band5	4132	4	NV	50	-3.30	-0.003993	±2.5	PASS
Band5	4132	5	NV	-30	-3.71	-0.004489	±2.5	PASS
Band5	4132	5	NV	-20	-3.78	-0.004574	±2.5	PASS
Band5	4132	5	NV	-10	-3.53	-0.004272	±2.5	PASS
Band5	4132	5	NV	0	-3.48	-0.004211	±2.5	PASS
Band5	4132	5	NV	10	-3.93	-0.004756	±2.5	PASS
Band5	4132	5	NV	20	-3.58	-0.004332	±2.5	PASS
Band5	4132	5	NV	30	-3.30	-0.003993	±2.5	PASS
Band5	4132	5	NV	40	-3.90	-0.004719	±2.5	PASS
Band5	4132	5	NV	50	-3.61	-0.004368	±2.5	PASS
Band5	4183	1	NV	-30	-3.81	-0.004554	±2.5	PASS
Band5	4183	1	NV	-20	-3.59	-0.004291	±2.5	PASS
Band5	4183	1	NV	-10	-3.60	-0.004303	±2.5	PASS
Band5	4183	1	NV	0	-3.79	-0.004530	±2.5	PASS
Band5	4183	1	NV	10	-3.50	-0.004184	±2.5	PASS
Band5	4183	1	NV	20	-3.64	-0.004351	±2.5	PASS
Band5	4183	1	NV	30	-3.74	-0.004470	±2.5	PASS
Band5	4183	1	NV	40	-3.45	-0.004124	±2.5	PASS
Band5	4183	1	NV	50	-3.68	-0.004399	±2.5	PASS
Band5	4183	2	NV	-30	-3.73	-0.004459	±2.5	PASS
Band5	4183	2	NV	-20	-3.77	-0.004506	±2.5	PASS

Band5	4183	2	NV	-10	-3.29	-0.003933	±2.5	PASS
Band5	4183	2	NV	0	-3.83	-0.004578	±2.5	PASS
Band5	4183	2	NV	10	-3.67	-0.004387	±2.5	PASS
Band5	4183	2	NV	20	-3.83	-0.004578	±2.5	PASS
Band5	4183	2	NV	30	-3.48	-0.004160	±2.5	PASS
Band5	4183	2	NV	40	-3.40	-0.004064	±2.5	PASS
Band5	4183	2	NV	50	-3.65	-0.004363	±2.5	PASS
Band5	4183	3	NV	-30	-3.55	-0.004243	±2.5	PASS
Band5	4183	3	NV	-20	-3.54	-0.004231	±2.5	PASS
Band5	4183	3	NV	-10	-3.60	-0.004303	±2.5	PASS
Band5	4183	3	NV	0	-3.37	-0.004028	±2.5	PASS
Band5	4183	3	NV	10	-3.69	-0.004411	±2.5	PASS
Band5	4183	3	NV	20	-3.63	-0.004339	±2.5	PASS
Band5	4183	3	NV	30	-3.39	-0.004052	±2.5	PASS
Band5	4183	3	NV	40	-3.85	-0.004602	±2.5	PASS
Band5	4183	3	NV	50	-3.45	-0.004124	±2.5	PASS
Band5	4183	4	NV	-30	-3.43	-0.004100	±2.5	PASS
Band5	4183	4	NV	-20	-3.10	-0.003705	±2.5	PASS
Band5	4183	4	NV	-10	-3.35	-0.004004	±2.5	PASS
Band5	4183	4	NV	0	-3.53	-0.004219	±2.5	PASS
Band5	4183	4	NV	10	-3.18	-0.003801	±2.5	PASS
Band5	4183	4	NV	20	-3.53	-0.004219	±2.5	PASS
Band5	4183	4	NV	30	-3.43	-0.004100	±2.5	PASS
Band5	4183	4	NV	40	-3.53	-0.004219	±2.5	PASS
Band5	4183	4	NV	50	-3.91	-0.004674	±2.5	PASS
Band5	4183	5	NV	-30	-3.77	-0.004506	±2.5	PASS
Band5	4183	5	NV	-20	-3.13	-0.003741	±2.5	PASS
Band5	4183	5	NV	-10	-3.39	-0.004052	±2.5	PASS
Band5	4183	5	NV	0	-3.62	-0.004327	±2.5	PASS
Band5	4183	5	NV	10	-3.35	-0.004004	±2.5	PASS
Band5	4183	5	NV	20	-3.35	-0.004004	±2.5	PASS
Band5	4183	5	NV	30	-3.77	-0.004506	±2.5	PASS
Band5	4183	5	NV	40	-3.55	-0.004243	±2.5	PASS
Band5	4183	5	NV	50	-3.76	-0.004494	±2.5	PASS
Band5	4233	1	NV	-30	-3.69	-0.004359	±2.5	PASS
Band5	4233	1	NV	-20	-3.55	-0.004193	±2.5	PASS

Band5	4233	1	NV	-10	-3.65	-0.004311	±2.5	PASS
Band5	4233	1	NV	0	-3.81	-0.004500	±2.5	PASS
Band5	4233	1	NV	10	-3.58	-0.004229	±2.5	PASS
Band5	4233	1	NV	20	-3.65	-0.004311	±2.5	PASS
Band5	4233	1	NV	30	-3.41	-0.004028	±2.5	PASS
Band5	4233	1	NV	40	-3.58	-0.004229	±2.5	PASS
Band5	4233	1	NV	50	-3.62	-0.004276	±2.5	PASS
Band5	4233	2	NV	-30	-3.48	-0.004111	±2.5	PASS
Band5	4233	2	NV	-20	-3.57	-0.004217	±2.5	PASS
Band5	4233	2	NV	-10	-3.53	-0.004170	±2.5	PASS
Band5	4233	2	NV	0	-3.36	-0.003969	±2.5	PASS
Band5	4233	2	NV	10	-3.39	-0.004004	±2.5	PASS
Band5	4233	2	NV	20	-3.35	-0.003957	±2.5	PASS
Band5	4233	2	NV	30	-3.71	-0.004382	±2.5	PASS
Band5	4233	2	NV	40	-3.49	-0.004122	±2.5	PASS
Band5	4233	2	NV	50	-3.66	-0.004323	±2.5	PASS
Band5	4233	3	NV	-30	-3.52	-0.004158	±2.5	PASS
Band5	4233	3	NV	-20	-3.68	-0.004347	±2.5	PASS
Band5	4233	3	NV	-10	-3.58	-0.004229	±2.5	PASS
Band5	4233	3	NV	0	-3.56	-0.004205	±2.5	PASS
Band5	4233	3	NV	10	-3.96	-0.004678	±2.5	PASS
Band5	4233	3	NV	20	-3.43	-0.004052	±2.5	PASS
Band5	4233	3	NV	30	-3.78	-0.004465	±2.5	PASS
Band5	4233	3	NV	40	-3.58	-0.004229	±2.5	PASS
Band5	4233	3	NV	50	-3.12	-0.003685	±2.5	PASS
Band5	4233	4	NV	-30	-3.46	-0.004087	±2.5	PASS
Band5	4233	4	NV	-20	-3.58	-0.004229	±2.5	PASS
Band5	4233	4	NV	-10	-3.58	-0.004229	±2.5	PASS
Band5	4233	4	NV	0	-3.38	-0.003992	±2.5	PASS
Band5	4233	4	NV	10	-3.75	-0.004429	±2.5	PASS
Band5	4233	4	NV	20	-3.50	-0.004134	±2.5	PASS
Band5	4233	4	NV	30	-3.36	-0.003969	±2.5	PASS
Band5	4233	4	NV	40	-3.58	-0.004229	±2.5	PASS
Band5	4233	4	NV	50	-3.53	-0.004170	±2.5	PASS
Band5	4233	5	NV	-30	-3.30	-0.003898	±2.5	PASS
Band5	4233	5	NV	-20	-3.45	-0.004075	±2.5	PASS

Band5	4233	5	NV	-10	-3.95	-0.004666	±2.5	PASS
Band5	4233	5	NV	0	-3.63	-0.004288	±2.5	PASS
Band5	4233	5	NV	10	-3.16	-0.003733	±2.5	PASS
Band5	4233	5	NV	20	-3.73	-0.004406	±2.5	PASS
Band5	4233	5	NV	30	-3.86	-0.004559	±2.5	PASS
Band5	4233	5	NV	40	-3.75	-0.004429	±2.5	PASS
Band5	4233	5	NV	50	-3.72	-0.004394	±2.5	PASS