LTE Band 7 Test Data

Product Name : Tablet

Model Number : xTablet T1190

FCC ID : O86T1190

Applicant:	MobileDemand, L.C. 1501 Boyson Sq Dr, Ste 101 Hiawatha, Iowa, 52233, United States
Manufacturer:	MobileDemand, L.C. No.88 East Qianjin Road, Kunshan city, Jiangsu province, China
Product Description:	Tablet
Trademark:	MobileDemand
Model Number:	xTablet T1190

Appendix A: RF POWER OUTPUT

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	64QAM	20775	1RB#0	21.12	PASS
Band7	5MHz	64QAM	20775	1RB#12	21.27	PASS
Band7	5MHz	64QAM	20775	1RB#24	21.28	PASS
Band7	5MHz	64QAM	20775	12RB#0	20.11	PASS
Band7	5MHz	64QAM	20775	12RB#6	20.09	PASS
Band7	5MHz	64QAM	20775	12RB#13	20.09	PASS
Band7	5MHz	64QAM	20775	25RB#0	20.13	PASS
Band7	5MHz	64QAM	21100	1RB#0	21.33	PASS
Band7	5MHz	64QAM	21100	1RB#12	21.35	PASS
Band7	5MHz	64QAM	21100	1RB#24	21.22	PASS
Band7	5MHz	64QAM	21100	12RB#0	20.24	PASS
Band7	5MHz	64QAM	21100	12RB#6	20.21	PASS
Band7	5MHz	64QAM	21100	12RB#13	20.20	PASS
Band7	5MHz	64QAM	21100	25RB#0	20.26	PASS
Band7	5MHz	64QAM	21425	1RB#0	21.07	PASS
Band7	5MHz	64QAM	21425	1RB#12	21.15	PASS
Band7	5MHz	64QAM	21425	1RB#24	20.99	PASS
Band7	5MHz	64QAM	21425	12RB#0	20.08	PASS
Band7	5MHz	64QAM	21425	12RB#6	20.03	PASS
Band7	5MHz	64QAM	21425	12RB#13	20.03	PASS
Band7	5MHz	64QAM	21425	25RB#0	19.93	PASS
Band7	10MHz	64QAM	20800	1RB#0	21.29	PASS
Band7	10MHz	64QAM	20800	1RB#24	21.33	PASS
Band7	10MHz	64QAM	20800	1RB#49	21.20	PASS
Band7	10MHz	64QAM	20800	25RB#0	20.08	PASS
Band7	10MHz	64QAM	20800	25RB#12	20.12	PASS
Band7	10MHz	64QAM	20800	25RB#25	20.22	PASS
Band7	10MHz	64QAM	20800	50RB#0	20.16	PASS
Band7	10MHz	64QAM	21100	1RB#0	21.30	PASS
Band7	10MHz	64QAM	21100	1RB#24	21.15	PASS
Band7	10MHz	64QAM	21100	1RB#49	21.12	PASS
Band7	10MHz	64QAM	21100	25RB#0	20.29	PASS

Band7	10MHz	64QAM	21100	25RB#12	20.24	PASS
Band7	10MHz	64QAM	21100	25RB#25	20.23	PASS
Band7	10MHz	64QAM	21100	50RB#0	20.30	PASS
Band7	10MHz	64QAM	21400	1RB#0	20.98	PASS
Band7	10MHz	64QAM	21400	1RB#24	20.81	PASS
Band7	10MHz	64QAM	21400	1RB#49	20.78	PASS
Band7	10MHz	64QAM	21400	25RB#0	20.08	PASS
Band7	10MHz	64QAM	21400	25RB#12	20.07	PASS
Band7	10MHz	64QAM	21400	25RB#25	19.95	PASS
Band7	10MHz	64QAM	21400	50RB#0	20.06	PASS
Band7	15MHz	64QAM	20825	1RB#0	21.11	PASS
Band7	15MHz	64QAM	20825	1RB#38	21.34	PASS
Band7	15MHz	64QAM	20825	1RB#74	21.41	PASS
Band7	15MHz	64QAM	20825	38RB#0	21.35	PASS
Band7	15MHz	64QAM	20825	38RB#18	21.35	PASS
Band7	15MHz	64QAM	20825	38RB#37	21.44	PASS
Band7	15MHz	64QAM	20825	75RB#0	20.20	PASS
Band7	15MHz	64QAM	21100	1RB#0	21.49	PASS
Band7	15MHz	64QAM	21100	1RB#38	21.24	PASS
Band7	15MHz	64QAM	21100	1RB#74	21.25	PASS
Band7	15MHz	64QAM	21100	38RB#0	21.48	PASS
Band7	15MHz	64QAM	21100	38RB#18	21.26	PASS
Band7	15MHz	64QAM	21100	38RB#37	21.04	PASS
Band7	15MHz	64QAM	21100	75RB#0	20.26	PASS
Band7	15MHz	64QAM	21375	1RB#0	20.03	PASS
Band7	15MHz	64QAM	21375	1RB#38	21.13	PASS
Band7	15MHz	64QAM	21375	1RB#74	20.96	PASS
Band7	15MHz	64QAM	21375	38RB#0	21.23	PASS
Band7	15MHz	64QAM	21375	38RB#18	21.06	PASS
Band7	15MHz	64QAM	21375	38RB#37	20.90	PASS
Band7	15MHz	64QAM	21375	75RB#0	20.07	PASS
Band7	20MHz	64QAM	20850	1RB#0	21.23	PASS
Band7	20MHz	64QAM	20850	1RB#49	21.15	PASS
Band7	20MHz	64QAM	20850	1RB#99	21.24	PASS
Band7	20MHz	64QAM	20850	50RB#0	20.25	PASS
Band7	20MHz	64QAM	20850	50RB#25	20.29	PASS
Band7	20MHz	64QAM	20850	50RB#50	20.34	PASS

Band7	20MHz	64QAM	20850	100RB#0	20.35	PASS
Band7	20MHz	64QAM	21100	1RB#0	21.29	PASS
Band7	20MHz	64QAM	21100	1RB#49	21.12	PASS
Band7	20MHz	64QAM	21100	1RB#99	21.09	PASS
Band7	20MHz	64QAM	21100	50RB#0	20.32	PASS
Band7	20MHz	64QAM	21100	50RB#25	20.33	PASS
Band7	20MHz	64QAM	21100	50RB#50	20.23	PASS
Band7	20MHz	64QAM	21100	100RB#0	20.29	PASS
Band7	20MHz	64QAM	21350	1RB#0	21.40	PASS
Band7	20MHz	64QAM	21350	1RB#49	21.17	PASS
Band7	20MHz	64QAM	21350	1RB#99	21.05	PASS
Band7	20MHz	64QAM	21350	50RB#0	20.15	PASS
Band7	20MHz	64QAM	21350	50RB#25	20.22	PASS
Band7	20MHz	64QAM	21350	50RB#50	20.03	PASS
Band7	20MHz	64QAM	21350	100RB#0	19.99	PASS

Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	5MHz	64QAM	20775	1RB#0	4.60	13	PASS
Band7	5MHz	64QAM	20775	25RB#0	5.68	13	PASS
Band7	5MHz	64QAM	21100	1RB#0	5.47	13	PASS
Band7	5MHz	64QAM	21100	25RB#0	6.28	13	PASS
Band7	5MHz	64QAM	21425	1RB#0	6.11	13	PASS
Band7	5MHz	64QAM	21425	25RB#0	6.09	13	PASS
Band7	10MHz	64QAM	20800	1RB#0	4.59	13	PASS
Band7	10MHz	64QAM	20800	50RB#0	5.76	13	PASS
Band7	10MHz	64QAM	21100	1RB#0	5.42	13	PASS
Band7	10MHz	64QAM	21100	50RB#0	6.29	13	PASS
Band7	10MHz	64QAM	21400	1RB#0	5.10	13	PASS
Band7	10MHz	64QAM	21400	50RB#0	6.13	13	PASS
Band7	15MHz	64QAM	20825	1RB#0	4.58	13	PASS
Band7	15MHz	64QAM	20825	75RB#0	5.91	13	PASS
Band7	15MHz	64QAM	21100	1RB#0	5.38	13	PASS
Band7	15MHz	64QAM	21100	75RB#0	6.33	13	PASS
Band7	15MHz	64QAM	21375	1RB#0	4.82	13	PASS
Band7	15MHz	64QAM	21375	75RB#0	6.21	13	PASS
Band7	20MHz	64QAM	20850	1RB#0	4.39	13	PASS
Band7	20MHz	64QAM	20850	100RB#0	5.87	13	PASS
Band7	20MHz	64QAM	21100	1RB#0	5.39	13	PASS
Band7	20MHz	64QAM	21100	100RB#0	6.19	13	PASS
Band7	20MHz	64QAM	21350	1RB#0	4.99	13	PASS
Band7	20MHz	64QAM	21350	100RB#0	6.07	13	PASS

Test Graphs

Band7-5MHz-64QAM-20775-1RB#0

Band7-5MHz-64QAM-20775-25RB#0

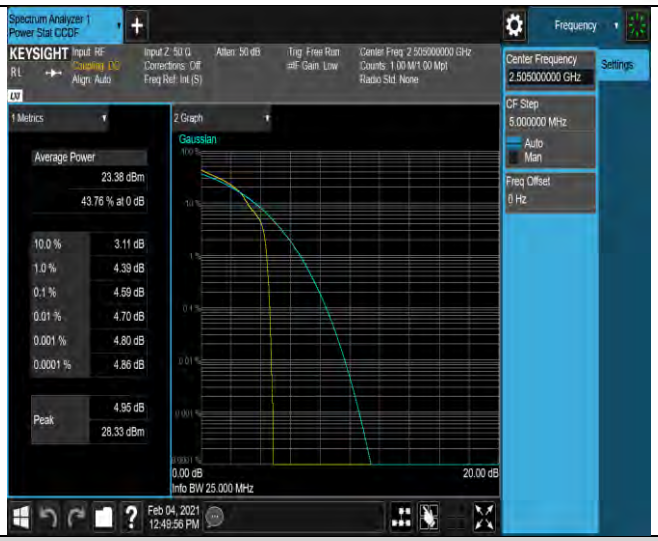
Band7-5MHz-64QAM-21100-1RB#0

Band7-5MHz-64QAM-21100-25RB#0

Band7-5MHz-64QAM-21425-1RB#0

Band7-5MHz-64QAM-21425-25RB#0

Band7-10MHz-64QAM-20800-1RB#0



Band7-10MHz-64QAM-20800-50RB#0

Band7-10MHz-64QAM-21100-1RB#0

Band7-10MHz-64QAM-21100-50RB#0

Band7-10MHz-64QAM-21400-1RB#0

Band7-10MHz-64QAM-21400-50RB#0

Band7-15MHz-64QAM-20825-1RB#0

Band7-15MHz-64QAM-20825-75RB#0

Band7-15MHz-64QAM-21100-1RB#0

Band7-15MHz-64QAM-21100-75RB#0

Band7-15MHz-64QAM-21375-1RB#0

Band7-15MHz-64QAM-21375-75RB#0

Band7-20MHz-64QAM-20850-1RB#0

Band7-20MHz-64QAM-20850-100RB#0

Band7-20MHz-64QAM-21100-1RB#0

Band7-20MHz-64QAM-21100-100RB#0

Band7-20MHz-64QAM-21350-1RB#0

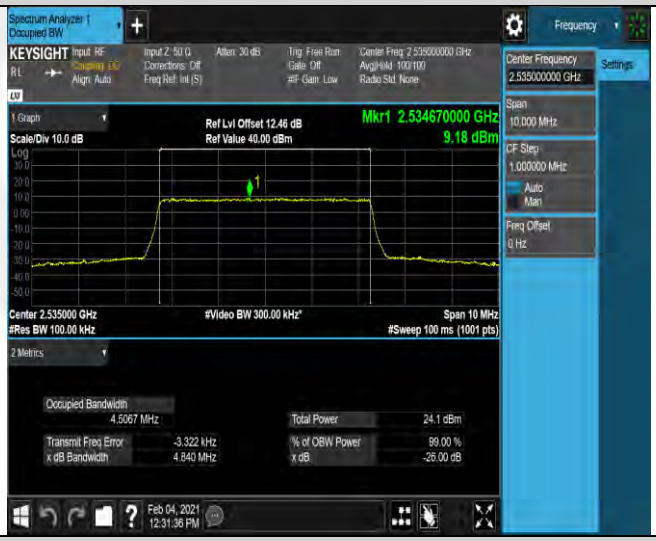
Band7-20MHz-64QAM-21350-100RB#0

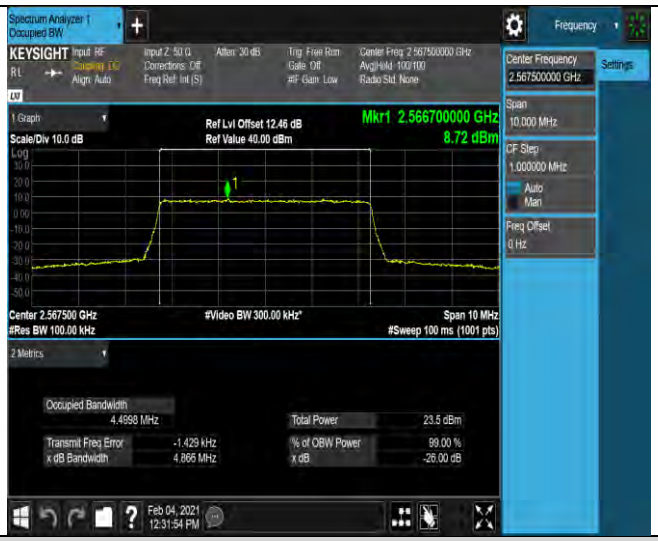
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	64QAM	20775	25RB#0	4.5112	4.859	PASS
Band7	5MHz	64QAM	21100	25RB#0	4.5067	4.840	PASS
Band7	5MHz	64QAM	21425	25RB#0	4.4998	4.866	PASS
Band7	10MHz	64QAM	20800	50RB#0	8.9659	9.559	PASS
Band7	10MHz	64QAM	21100	50RB#0	8.9684	9.521	PASS
Band7	10MHz	64QAM	21400	50RB#0	8.9779	9.533	PASS
Band7	15MHz	64QAM	20825	75RB#0	13.434	14.26	PASS
Band7	15MHz	64QAM	21100	75RB#0	13.462	14.25	PASS
Band7	15MHz	64QAM	21375	75RB#0	13.453	14.24	PASS
Band7	20MHz	64QAM	20850	100RB#0	17.883	18.93	PASS
Band7	20MHz	64QAM	21100	100RB#0	17.923	18.96	PASS
Band7	20MHz	64QAM	21350	100RB#0	17.892	18.93	PASS

Test Graphs

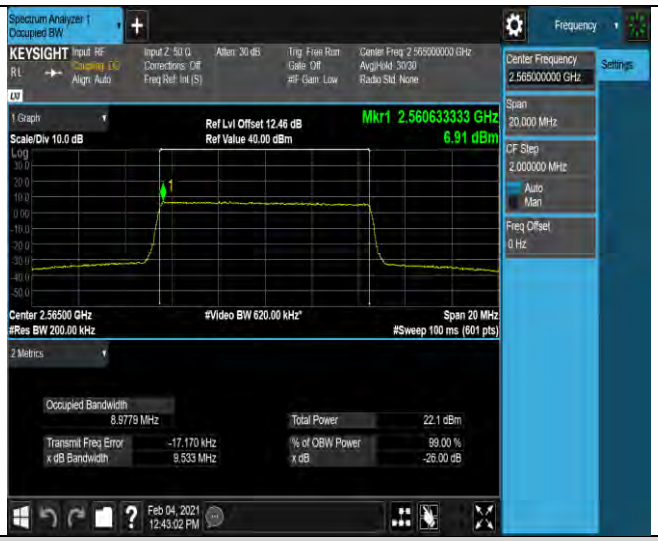
Band7-5MHz-64QAM-20775-25RB#0-4.5112
Band7-5MHz-64QAM-21100-25RB#0-4.5067

Band7-5MHz-64QAM-21425-25RB#0-4.4998



Band7-10MHz-64QAM-20800-50RB#0-8.9659

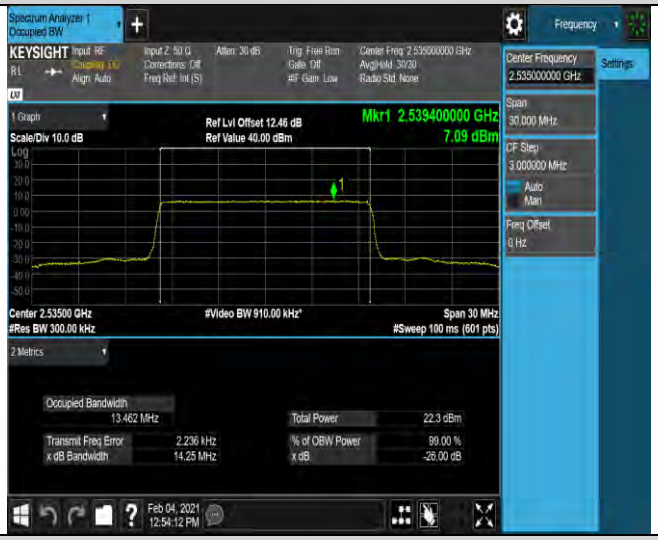
Band7-10MHz-64QAM-21100-50RB#0-8.9684

Band7-10MHz-64QAM-21400-50RB#0-8.9779



Band7-15MHz-64QAM-20825-75RB#0-13.434

Band7-15MHz-64QAM-21100-75RB#0-13.462



Band7-15MHz-64QAM-21375-75RB#0-13.453

Band7-20MHz-64QAM-20850-100RB#0-17.883

Band7-20MHz-64QAM-21100-100RB#0-17.923

Band7-20MHz-64QAM-21350-100RB#0-17.892

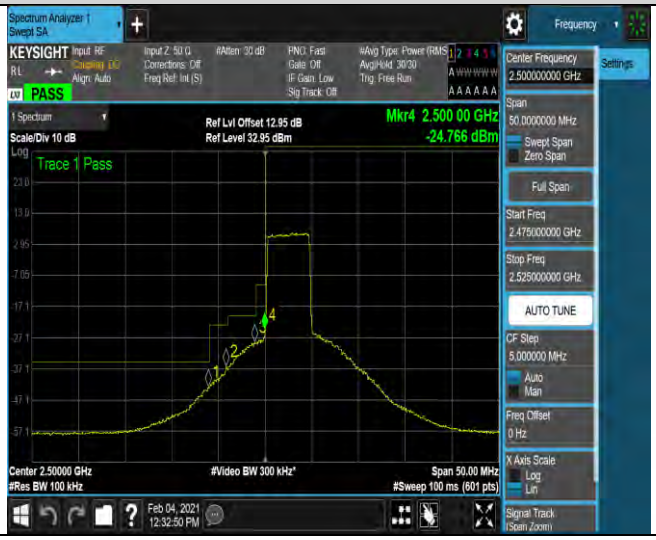
Spectrum Analyzer 1
Occupied BW
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
Atten: 30 dB
Trig: Free Run
Gate: Off
#IF Gain: Low
Center Freq: 2.560000000 GHz
Avg|Hold: 30/30
Radio Std: None
Frequency
Center Frequency
2.560000000 GHz
Settings
Span
40.000 MHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz
1 Graph
Ref Lvl Offset 12.46 dB
Ref Value 40.00 dBm
Mkr1 2.558266667 GHz
6.86 dBm
Scale/Div 10.0 dB
Log
Center 2.56000 GHz
Res BW 390.00 kHz
#Video BW 1.2000 MHz*
Span 40 MHz
#Sweep 100 ms (601 pts)
2 Metrics
Occupied Bandwidth
17.892 MHz
Total Power
21.8 dBm
Transmit Freq Error
-41.835 kHz
% of OBW Power
99.00 %
x dB Bandwidth
18.93 MHz
x dB
-26.00 dB
Feb 04, 2021
1:05:50 PM

Appendix D: Band Edge

Test Result

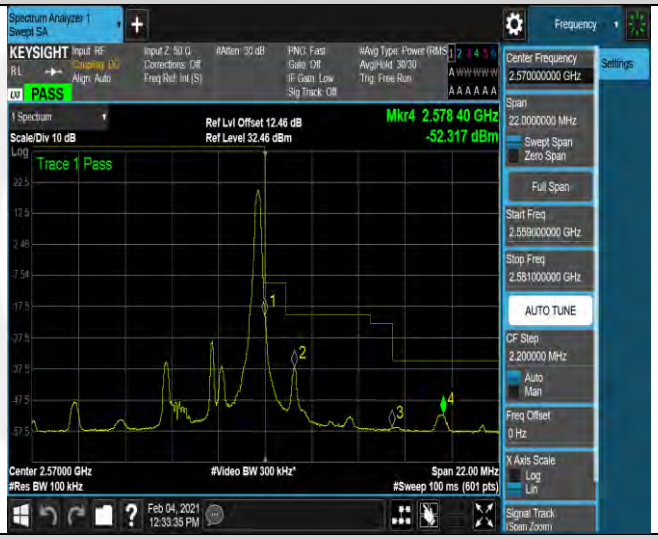
Band	Bandwidth	Modulation	Channel	RB Config.	Verdict
Band7	5MHz	64QAM	20775	1RB#0	PASS
Band7	5MHz	64QAM	20775	1RB#24	PASS
Band7	5MHz	64QAM	20775	25RB#0	PASS
Band7	5MHz	64QAM	21425	1RB#0	PASS
Band7	5MHz	64QAM	21425	1RB#24	PASS
Band7	5MHz	64QAM	21425	25RB#0	PASS
Band7	10MHz	64QAM	20800	1RB#0	PASS
Band7	10MHz	64QAM	20800	1RB#49	PASS
Band7	10MHz	64QAM	20800	50RB#0	PASS
Band7	10MHz	64QAM	21400	1RB#0	PASS
Band7	10MHz	64QAM	21400	1RB#49	PASS
Band7	10MHz	64QAM	21400	50RB#0	PASS
Band7	15MHz	64QAM	20825	1RB#0	PASS
Band7	15MHz	64QAM	20825	1RB#74	PASS
Band7	15MHz	64QAM	20825	75RB#0	PASS
Band7	15MHz	64QAM	21375	1RB#0	PASS
Band7	15MHz	64QAM	21375	1RB#74	PASS
Band7	15MHz	64QAM	21375	75RB#0	PASS
Band7	20MHz	64QAM	20850	1RB#0	PASS
Band7	20MHz	64QAM	20850	1RB#99	PASS
Band7	20MHz	64QAM	20850	100RB#0	PASS
Band7	20MHz	64QAM	21350	1RB#0	PASS
Band7	20MHz	64QAM	21350	1RB#99	PASS
Band7	20MHz	64QAM	21350	100RB#0	PASS

Test Graphs

Band7-5MHz-64QAM-20775-1RB#0
Band7-5MHz-64QAM-20775-1RB#24
Band7-5MHz-64QAM-20775-25RB#0


Band7-5MHz-64QAM-21425-1RB#0

Band7-5MHz-64QAM-21425-1RB#24



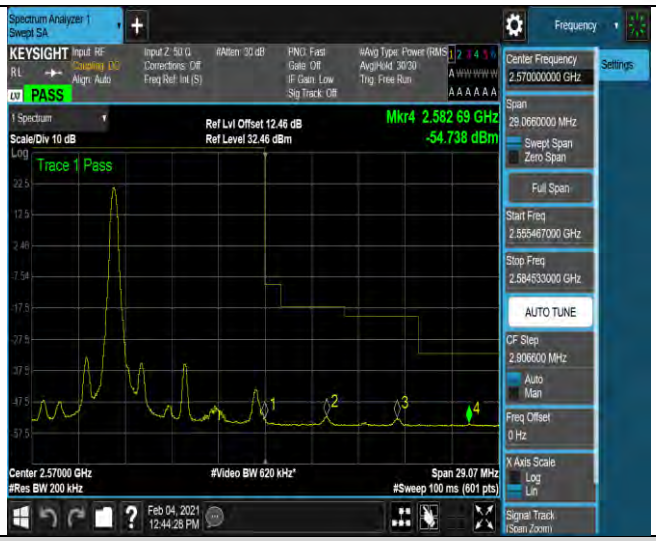
Band7-5MHz-64QAM-21425-25RB#0

Band7-10MHz-64QAM-20800-1RB#0

Band7-10MHz-64QAM-20800-1RB#49

Band7-10MHz-64QAM-20800-50RB#0

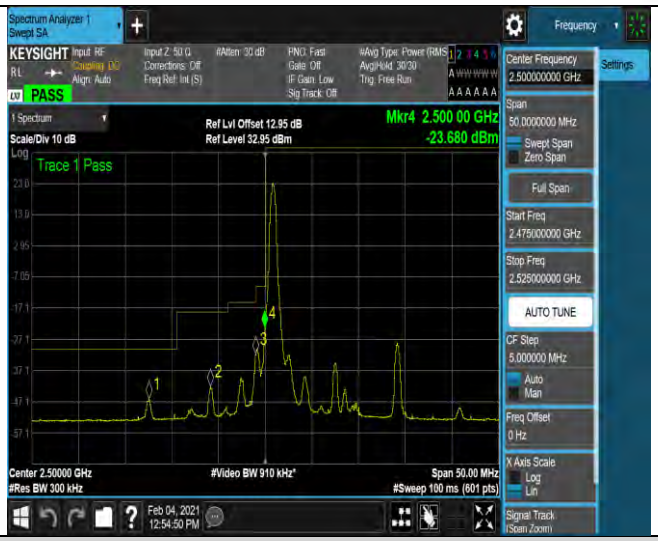
Band7-10MHz-64QAM-21400-1RB#0



Band7-10MHz-64QAM-21400-1RB#49

Band7-10MHz-64QAM-21400-50RB#0

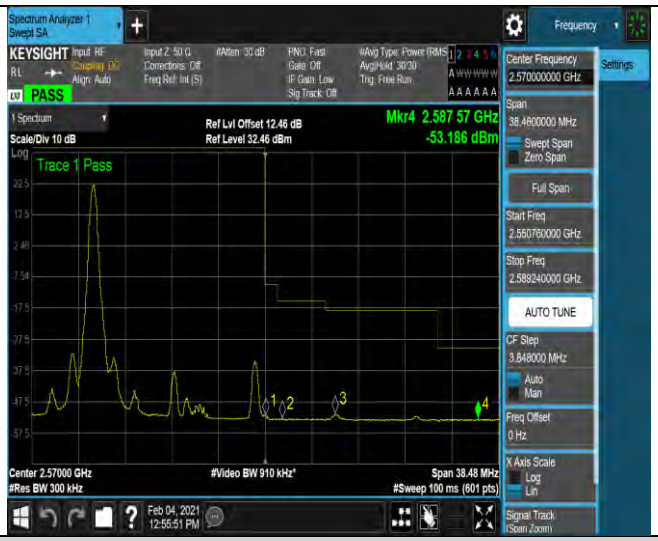
Band7-15MHz-64QAM-20825-1RB#0



Band7-15MHz-64QAM-20825-1RB#74

Band7-15MHz-64QAM-20825-75RB#0

Band7-15MHz-64QAM-21375-1RB#0



Band7-15MHz-64QAM-21375-1RB#74

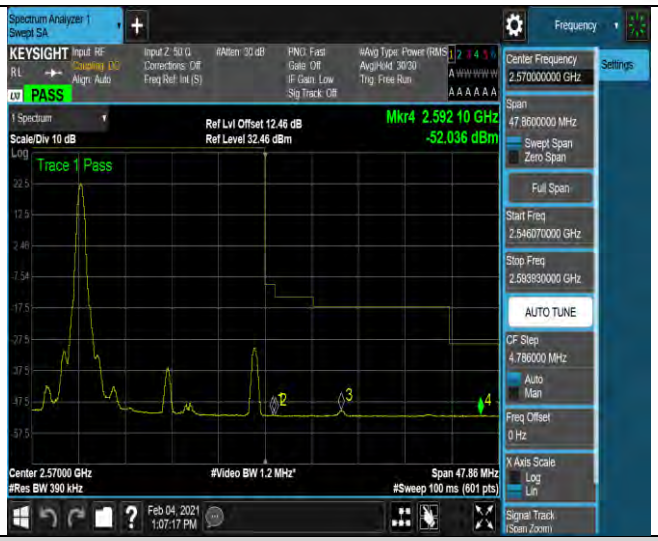
Band7-15MHz-64QAM-21375-75RB#0

Band7-20MHz-64QAM-20850-1RB#0

Band7-20MHz-64QAM-20850-1RB#99

Band7-20MHz-64QAM-20850-100RB#0

Band7-20MHz-64QAM-21350-1RB#0



Band7-20MHz-64QAM-21350-1RB#99

Band7-20MHz-64QAM-21350-100RB#0

Appendix E: Conducted Spurious Emission

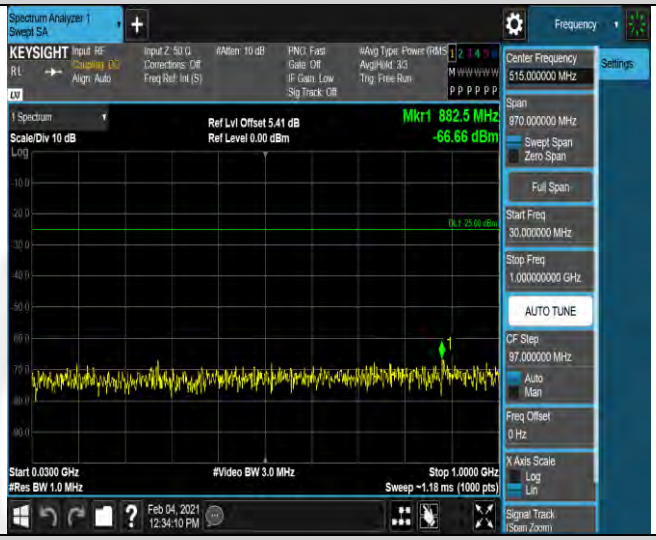
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band7	5MHz	64QAM	20775	1RB#0	Range1:30~1000MHz	-66.66	PASS
Band7	5MHz	64QAM	20775	1RB#0	Range2:1000~3000MHz	-39.98	PASS
Band7	5MHz	64QAM	20775	1RB#0	Range3:3000~26500MHz	-48.98	PASS
Band7	5MHz	64QAM	21100	1RB#0	Range1:30~1000MHz	-67.27	PASS
Band7	5MHz	64QAM	21100	1RB#0	Range2:1000~3000MHz	-39.99	PASS
Band7	5MHz	64QAM	21100	1RB#0	Range3:3000~26500MHz	-43.21	PASS
Band7	5MHz	64QAM	21425	1RB#0	Range1:30~1000MHz	-67.28	PASS
Band7	5MHz	64QAM	21425	1RB#0	Range2:1000~3000MHz	-40.36	PASS
Band7	5MHz	64QAM	21425	1RB#0	Range3:3000~26500MHz	-47.2	PASS
Band7	10MHz	64QAM	20800	1RB#0	Range1:30~1000MHz	-67.45	PASS
Band7	10MHz	64QAM	20800	1RB#0	Range2:1000~3000MHz	-39.6	PASS
Band7	10MHz	64QAM	20800	1RB#0	Range3:3000~26500MHz	-48.1	PASS
Band7	10MHz	64QAM	21100	1RB#0	Range1:30~1000MHz	-66.3	PASS
Band7	10MHz	64QAM	21100	1RB#0	Range2:1000~3000MHz	-39	PASS
Band7	10MHz	64QAM	21100	1RB#0	Range3:3000~26500MHz	-46.42	PASS
Band7	10MHz	64QAM	21400	1RB#0	Range1:30~1000MHz	-66.56	PASS
Band7	10MHz	64QAM	21400	1RB#0	Range2:1000~3000MHz	-37.9	PASS
Band7	10MHz	64QAM	21400	1RB#0	Range3:3000~26500MHz	-47.58	PASS
Band7	15MHz	64QAM	20825	1RB#0	Range1:30~1000MHz	-66.94	PASS
Band7	15MHz	64QAM	20825	1RB#0	Range2:1000~3000MHz	-40.2	PASS
Band7	15MHz	64QAM	20825	1RB#0	Range3:3000~26500MHz	-45.49	PASS
Band7	15MHz	64QAM	21100	1RB#0	Range1:30~1000MHz	-67.93	PASS
Band7	15MHz	64QAM	21100	1RB#0	Range2:1000~3000MHz	-40.07	PASS
Band7	15MHz	64QAM	21100	1RB#0	Range3:3000~26500MHz	-47.81	PASS
Band7	15MHz	64QAM	21375	1RB#0	Range1:30~1000MHz	-67.64	PASS
Band7	15MHz	64QAM	21375	1RB#0	Range2:1000~3000MHz	-39.29	PASS
Band7	15MHz	64QAM	21375	1RB#0	Range3:3000~26500MHz	-47.35	PASS
Band7	20MHz	64QAM	20850	1RB#0	Range1:30~1000MHz	-67.61	PASS
Band7	20MHz	64QAM	20850	1RB#0	Range2:1000~3000MHz	-38.68	PASS
Band7	20MHz	64QAM	20850	1RB#0	Range3:3000~26500MHz	-44.01	PASS
Band7	20MHz	64QAM	21100	1RB#0	Range1:30~1000MHz	-65.87	PASS

Band7	20MHz	64QAM	21100	1RB#0	Range2:1000~3000MHz	-40.11	PASS
Band7	20MHz	64QAM	21100	1RB#0	Range3:3000~26500MHz	-44.92	PASS
Band7	20MHz	64QAM	21350	1RB#0	Range1:30~1000MHz	-66.15	PASS
Band7	20MHz	64QAM	21350	1RB#0	Range2:1000~3000MHz	-40.31	PASS
Band7	20MHz	64QAM	21350	1RB#0	Range3:3000~26500MHz	-47.42	PASS

Test Graphs

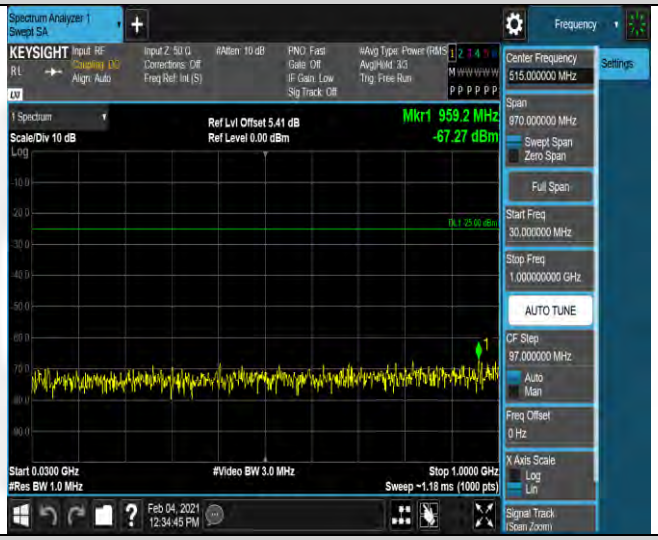
Band7-5MHz-64QAM-20775-1RB#0-Range1:30~1000MHz



Band7-5MHz-64QAM-20775-1RB#0-Range2:1000~3000MHz

Band7-5MHz-64QAM-20775-1RB#0-Range3:3000~26500MHz

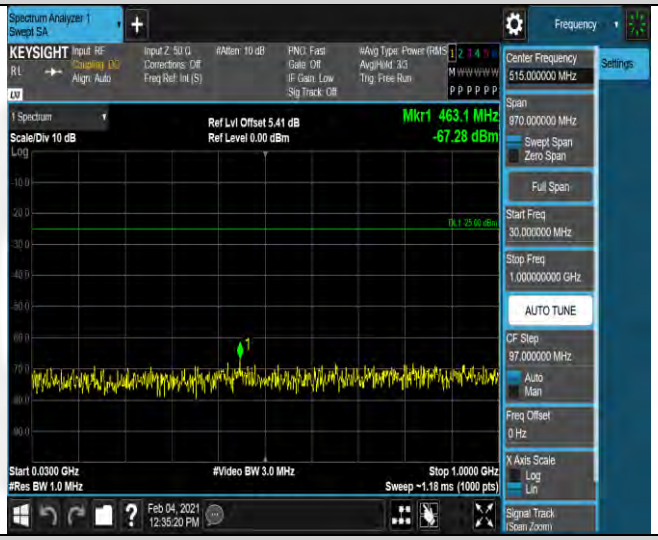
Band7-5MHz-64QAM-21100-1RB#0-Range1:30~1000MHz



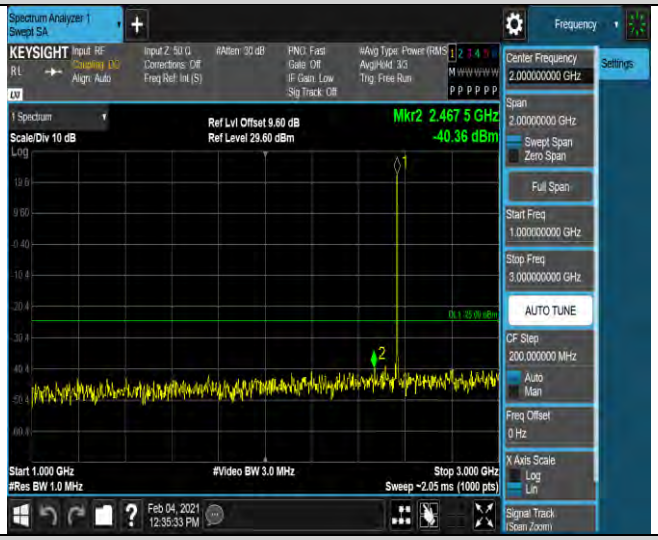
Band7-5MHz-64QAM-21100-1RB#0-Range2:1000~3000MHz

Band7-5MHz-64QAM-21100-1RB#0-Range3:3000~26500MHz

Band7-5MHz-64QAM-21425-1RB#0-Range1:30~1000MHz

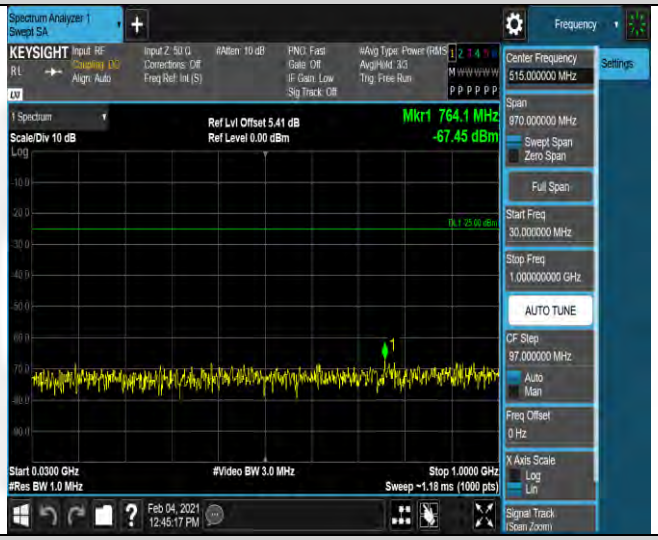


Band7-5MHz-64QAM-21425-1RB#0-Range2:1000~3000MHz



Band7-5MHz-64QAM-21425-1RB#0-Range3:3000~26500MHz

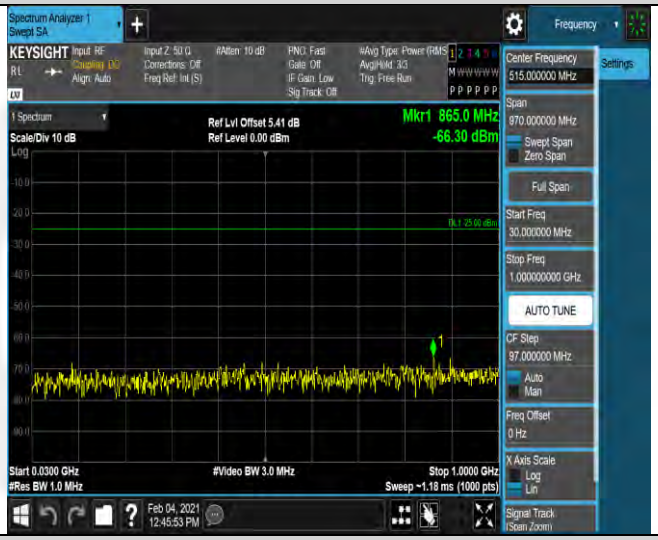
Band7-10MHz-64QAM-20800-1RB#0-Range1:30~1000MHz



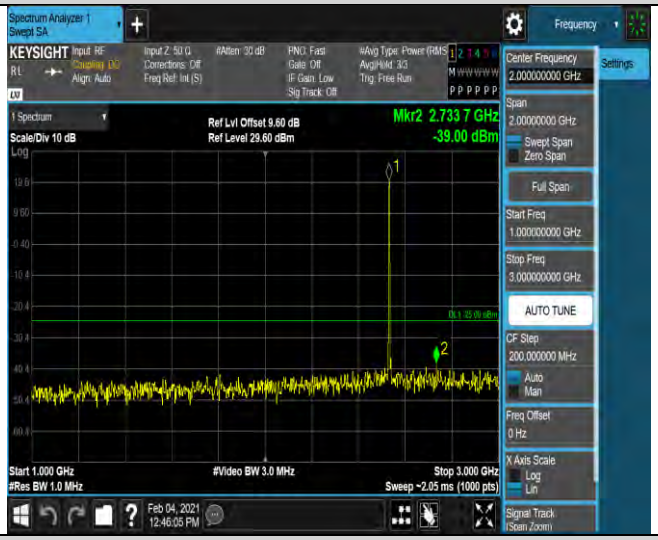
Band7-10MHz-64QAM-20800-1RB#0-Range2:1000~3000MHz

Band7-10MHz-64QAM-20800-1RB#0-Range3:3000~26500MHz

Band7-10MHz-64QAM-21100-1RB#0-Range1:30~1000MHz

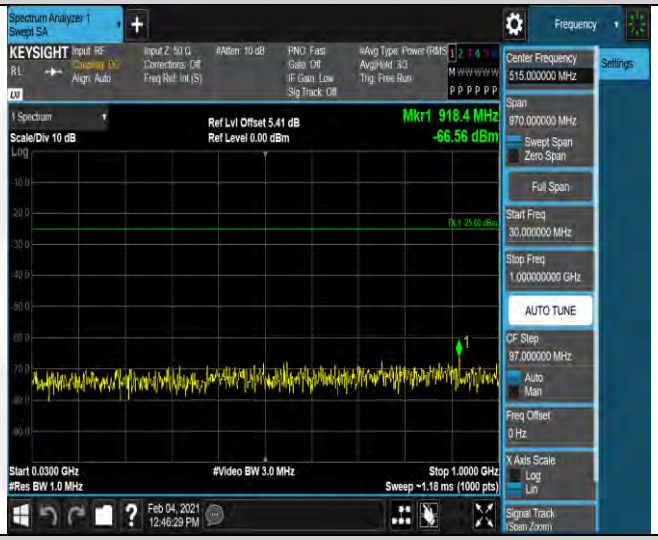


Band7-10MHz-64QAM-21100-1RB#0-Range2:1000~3000MHz

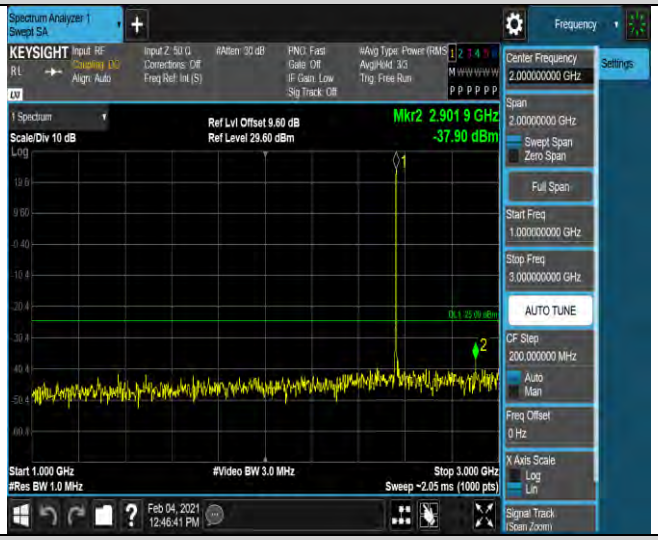


Band7-10MHz-64QAM-21100-1RB#0-Range3:3000~26500MHz

Band7-10MHz-64QAM-21400-1RB#0-Range1:30~1000MHz

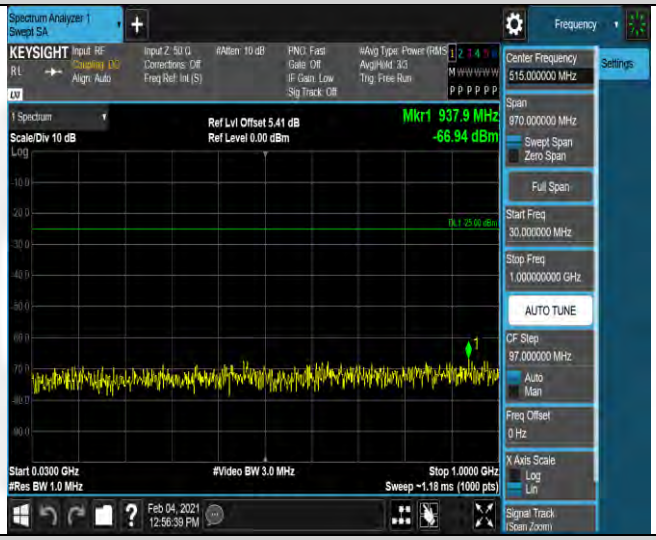


Band7-10MHz-64QAM-21400-1RB#0-Range2:1000~3000MHz

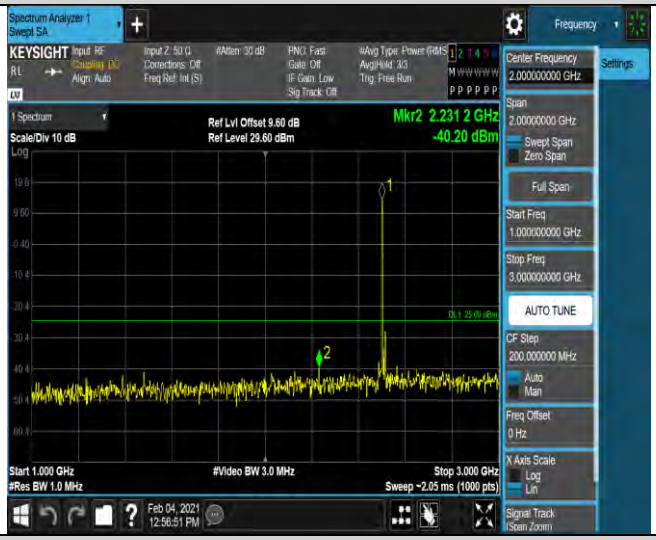


Band7-10MHz-64QAM-21400-1RB#0-Range3:3000~26500MHz

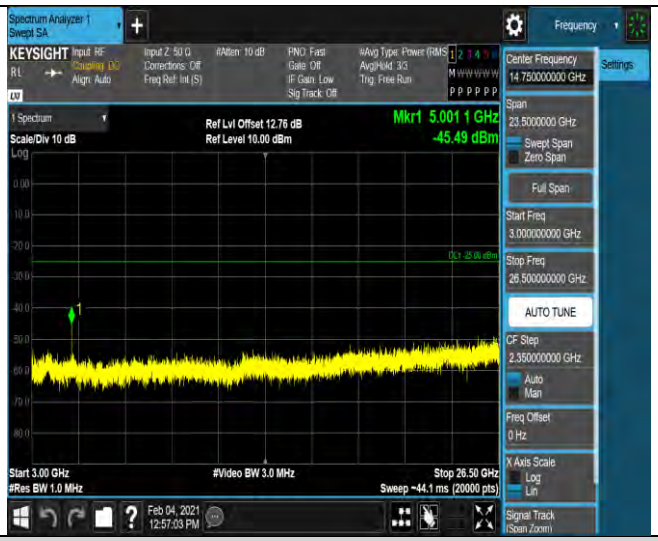
Band7-15MHz-64QAM-20825-1RB#0-Range1:30~1000MHz



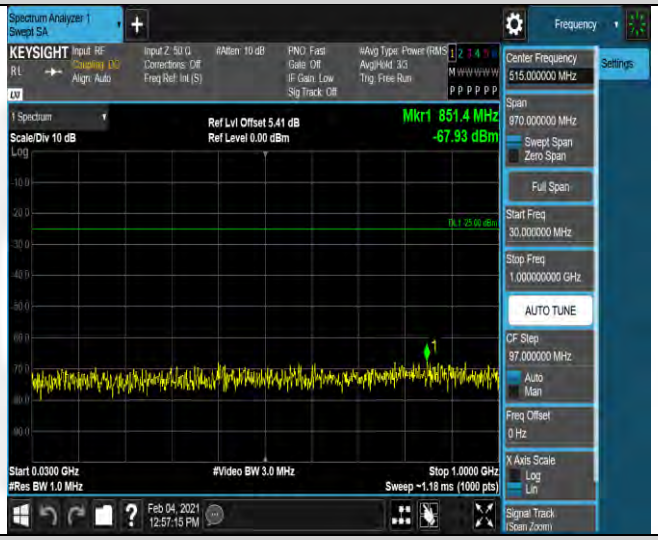
Band7-15MHz-64QAM-20825-1RB#0-Range2:1000~3000MHz



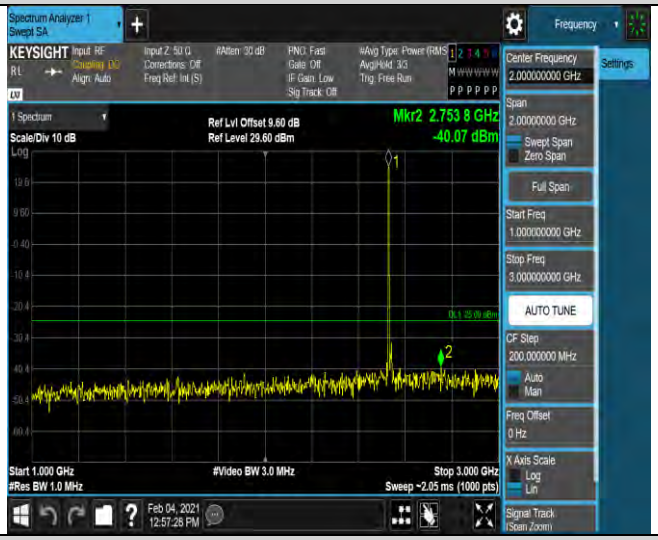
Band7-15MHz-64QAM-20825-1RB#0-Range3:3000~26500MHz



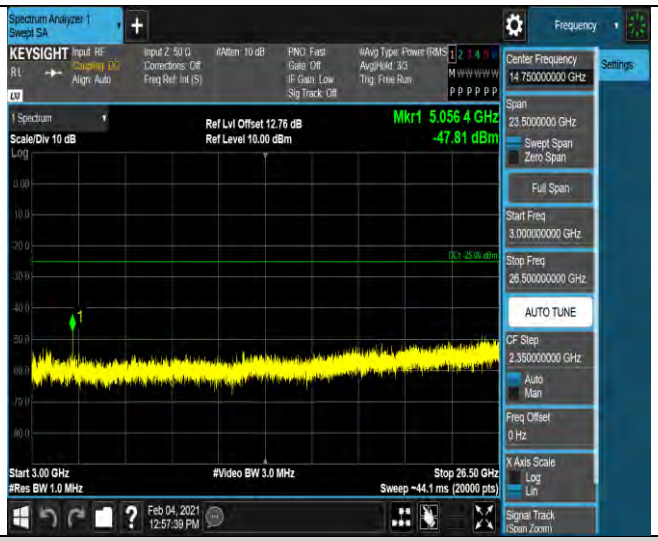
Band7-15MHz-64QAM-21100-1RB#0-Range1:30~1000MHz



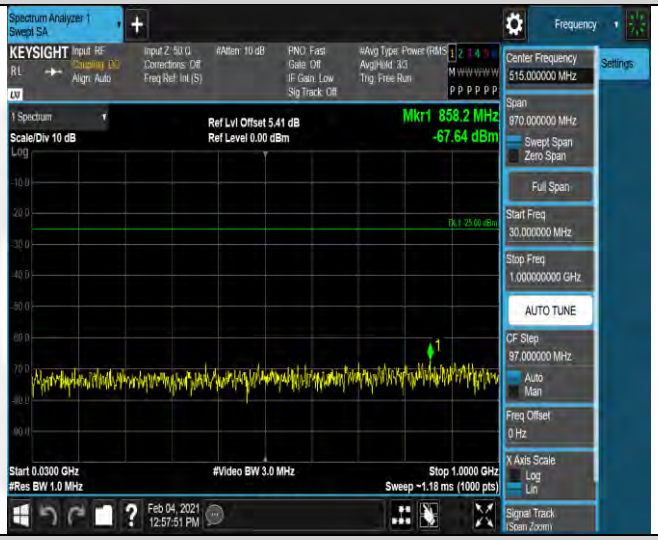
Band7-15MHz-64QAM-21100-1RB#0-Range2:1000~3000MHz



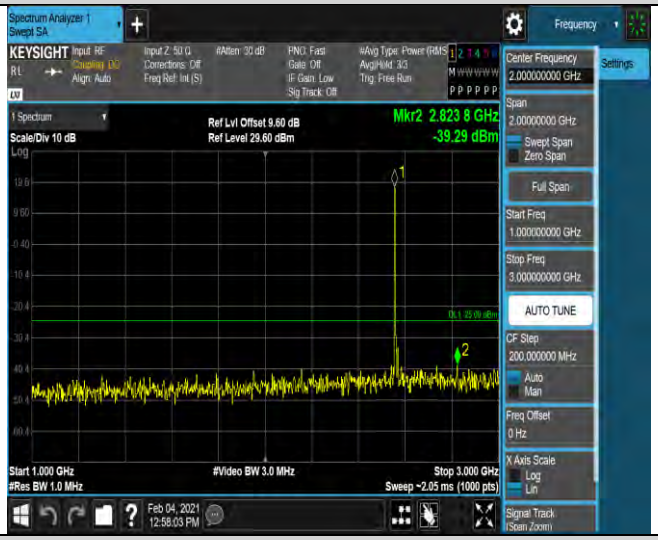
Band7-15MHz-64QAM-21100-1RB#0-Range3:3000~26500MHz



Band7-15MHz-64QAM-21375-1RB#0-Range1:30~1000MHz

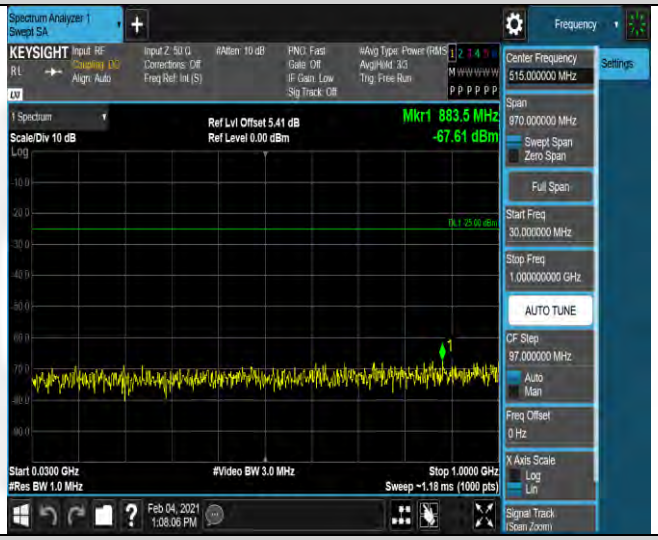


Band7-15MHz-64QAM-21375-1RB#0-Range2:1000~3000MHz



Band7-15MHz-64QAM-21375-1RB#0-Range3:3000~26500MHz

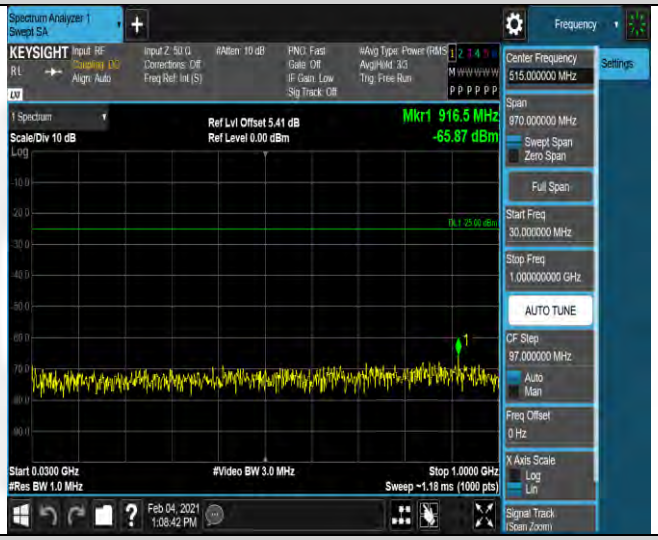
Band7-20MHz-64QAM-20850-1RB#0-Range1:30~1000MHz



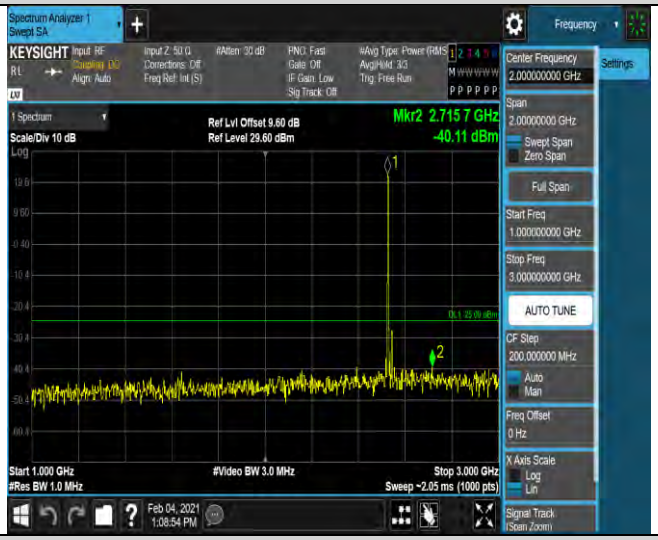
Band7-20MHz-64QAM-20850-1RB#0-Range2:1000~3000MHz

Band7-20MHz-64QAM-20850-1RB#0-Range3:3000~26500MHz

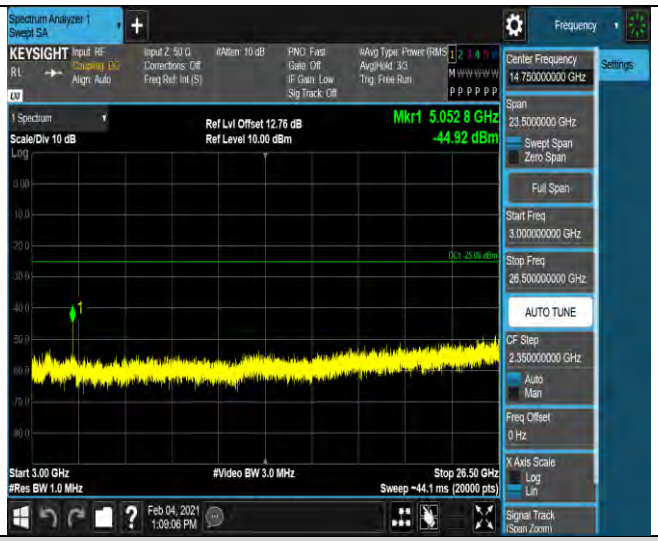
Band7-20MHz-64QAM-21100-1RB#0-Range1:30~1000MHz



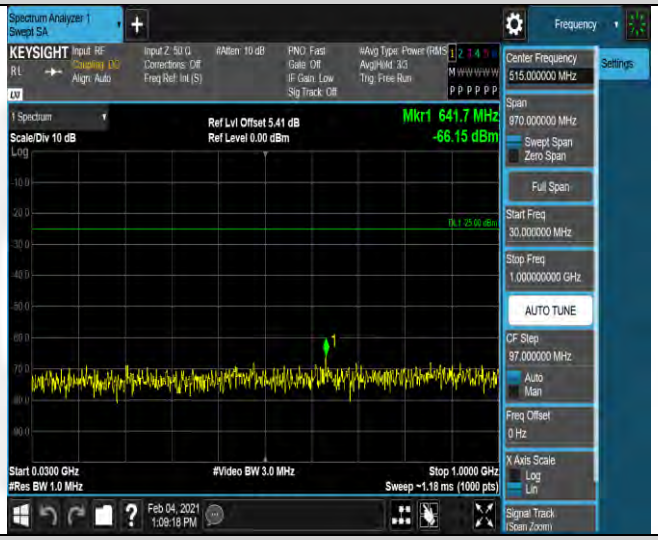
Band7-20MHz-64QAM-21100-1RB#0-Range2:1000~3000MHz



Band7-20MHz-64QAM-21100-1RB#0-Range3:3000~26500MHz



Band7-20MHz-64QAM-21350-1RB#0-Range1:30~1000MHz



Band7-20MHz-64QAM-21350-1RB#0-Range2:1000~3000MHz

Band7-20MHz-64QAM-21350-1RB#0-Range3:3000~26500MHz

Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
#Atten: 10 dB
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
#Avg Type: Power (RMS)
Avg|Hold: 3/3
Trig: Free Run
Frequency
Settings
Center Frequency
14.750000000 GHz
Span
23.5000000 GHz
Swept Span
Zero Span
Full Span
Start Freq
3.000000000 GHz
Stop Freq
26.500000000 GHz
AUTO TUNE
CF Step
2.350000000 GHz
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 12.76 dB
Ref Level 10.00 dBm
Mkr1 5.102 2 GHz
-47.41 dBm
Start 3.00 GHz
#Res BW 1.0 MHz
#Video BW 3.0 MHz
Stop 26.50 GHz
Sweep ~44.1 ms (20000 pts)
Feb 04, 2021
1:09:41 PM

Appendix F: Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	5MHz	64QAM	20775	25RB#0	VL	NT	-28.45	-0.011369	±2.5	PASS
Band7	5MHz	64QAM	20775	25RB#0	VN	NT	-22.17	-0.008859	±2.5	PASS
Band7	5MHz	64QAM	20775	25RB#0	VH	NT	-24.56	-0.009814	±2.5	PASS
Band7	5MHz	64QAM	21100	25RB#0	VL	NT	-8.64	-0.003408	±2.5	PASS
Band7	5MHz	64QAM	21100	25RB#0	VN	NT	-4.46	-0.001759	±2.5	PASS
Band7	5MHz	64QAM	21100	25RB#0	VH	NT	-10.14	-0.004000	±2.5	PASS
Band7	5MHz	64QAM	21425	25RB#0	VL	NT	-16.21	-0.006314	±2.5	PASS
Band7	5MHz	64QAM	21425	25RB#0	VN	NT	-15.41	-0.006002	±2.5	PASS
Band7	5MHz	64QAM	21425	25RB#0	VH	NT	-21.41	-0.008339	±2.5	PASS
Band7	10MHz	64QAM	20800	50RB#0	VL	NT	-11.73	-0.004683	±2.5	PASS
Band7	10MHz	64QAM	20800	50RB#0	VN	NT	-18.74	-0.007481	±2.5	PASS
Band7	10MHz	64QAM	20800	50RB#0	VH	NT	-13.78	-0.005501	±2.5	PASS
Band7	10MHz	64QAM	21100	50RB#0	VL	NT	-8.58	-0.003385	±2.5	PASS
Band7	10MHz	64QAM	21100	50RB#0	VN	NT	-15.46	-0.006099	±2.5	PASS
Band7	10MHz	64QAM	21100	50RB#0	VH	NT	-9.90	-0.003905	±2.5	PASS
Band7	10MHz	64QAM	21400	50RB#0	VL	NT	-17.28	-0.006737	±2.5	PASS
Band7	10MHz	64QAM	21400	50RB#0	VN	NT	-18.35	-0.007154	±2.5	PASS
Band7	10MHz	64QAM	21400	50RB#0	VH	NT	-20.31	-0.007918	±2.5	PASS
Band7	15MHz	64QAM	20825	75RB#0	VL	NT	-16.81	-0.006704	±2.5	PASS
Band7	15MHz	64QAM	20825	75RB#0	VN	NT	10.33	0.004120	±2.5	PASS
Band7	15MHz	64QAM	20825	75RB#0	VH	NT	-7.82	-0.003119	±2.5	PASS
Band7	15MHz	64QAM	21100	75RB#0	VL	NT	-23.59	-0.009306	±2.5	PASS
Band7	15MHz	64QAM	21100	75RB#0	VN	NT	-9.00	-0.003550	±2.5	PASS
Band7	15MHz	64QAM	21100	75RB#0	VH	NT	-14.31	-0.005645	±2.5	PASS
Band7	15MHz	64QAM	21375	75RB#0	VL	NT	-27.97	-0.010915	±2.5	PASS
Band7	15MHz	64QAM	21375	75RB#0	VN	NT	-23.00	-0.008976	±2.5	PASS
Band7	15MHz	64QAM	21375	75RB#0	VH	NT	-20.94	-0.008172	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	VL	NT	-19.84	-0.007904	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	VN	NT	-15.82	-0.006303	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	VH	NT	-20.51	-0.008171	±2.5	PASS

Band7	20MHz	64QAM	21100	100RB#0	VL	NT	-17.54	-0.006919	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	VN	NT	-21.29	-0.008398	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	VH	NT	-17.25	-0.006805	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	VL	NT	-5.12	-0.002000	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	VN	NT	-4.01	-0.001566	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	VH	NT	-14.52	-0.005672	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	5MHz	64QAM	20775	25RB#0	NV	-30	-16.34	-0.006529	±2.5	PASS
Band7	5MHz	64QAM	20775	25RB#0	NV	-20	-24.79	-0.009906	±2.5	PASS
Band7	5MHz	64QAM	20775	25RB#0	NV	-10	-21.59	-0.008627	±2.5	PASS
Band7	5MHz	64QAM	20775	25RB#0	NV	0	-16.74	-0.006689	±2.5	PASS
Band7	5MHz	64QAM	20775	25RB#0	NV	10	-25.29	-0.010106	±2.5	PASS
Band7	5MHz	64QAM	20775	25RB#0	NV	20	-15.21	-0.006078	±2.5	PASS
Band7	5MHz	64QAM	20775	25RB#0	NV	30	-24.20	-0.009670	±2.5	PASS
Band7	5MHz	64QAM	20775	25RB#0	NV	40	-7.58	-0.003029	±2.5	PASS
Band7	5MHz	64QAM	20775	25RB#0	NV	50	-22.77	-0.009099	±2.5	PASS
Band7	5MHz	64QAM	21100	25RB#0	NV	-30	-12.62	-0.004978	±2.5	PASS
Band7	5MHz	64QAM	21100	25RB#0	NV	-20	-12.53	-0.004943	±2.5	PASS
Band7	5MHz	64QAM	21100	25RB#0	NV	-10	-15.16	-0.005980	±2.5	PASS
Band7	5MHz	64QAM	21100	25RB#0	NV	0	-17.07	-0.006734	±2.5	PASS
Band7	5MHz	64QAM	21100	25RB#0	NV	10	-6.07	-0.002394	±2.5	PASS
Band7	5MHz	64QAM	21100	25RB#0	NV	20	-20.31	-0.008012	±2.5	PASS
Band7	5MHz	64QAM	21100	25RB#0	NV	30	-8.28	-0.003266	±2.5	PASS
Band7	5MHz	64QAM	21100	25RB#0	NV	40	-16.81	-0.006631	±2.5	PASS
Band7	5MHz	64QAM	21100	25RB#0	NV	50	-12.77	-0.005037	±2.5	PASS
Band7	5MHz	64QAM	21425	25RB#0	NV	-30	-12.70	-0.004946	±2.5	PASS
Band7	5MHz	64QAM	21425	25RB#0	NV	-20	-4.26	-0.001659	±2.5	PASS
Band7	5MHz	64QAM	21425	25RB#0	NV	-10	-16.74	-0.006520	±2.5	PASS
Band7	5MHz	64QAM	21425	25RB#0	NV	0	-18.73	-0.007295	±2.5	PASS
Band7	5MHz	64QAM	21425	25RB#0	NV	10	-10.56	-0.004113	±2.5	PASS
Band7	5MHz	64QAM	21425	25RB#0	NV	20	-7.21	-0.002808	±2.5	PASS
Band7	5MHz	64QAM	21425	25RB#0	NV	30	-18.05	-0.007030	±2.5	PASS
Band7	5MHz	64QAM	21425	25RB#0	NV	40	-16.12	-0.006278	±2.5	PASS

Band7	5MHz	64QAM	21425	25RB#0	NV	50	-7.00	-0.002726	±2.5	PASS
Band7	10MHz	64QAM	20800	50RB#0	NV	-30	-12.47	-0.004978	±2.5	PASS
Band7	10MHz	64QAM	20800	50RB#0	NV	-20	-10.81	-0.004315	±2.5	PASS
Band7	10MHz	64QAM	20800	50RB#0	NV	-10	-8.07	-0.003222	±2.5	PASS
Band7	10MHz	64QAM	20800	50RB#0	NV	0	-6.42	-0.002563	±2.5	PASS
Band7	10MHz	64QAM	20800	50RB#0	NV	10	-14.31	-0.005713	±2.5	PASS
Band7	10MHz	64QAM	20800	50RB#0	NV	20	-12.29	-0.004906	±2.5	PASS
Band7	10MHz	64QAM	20800	50RB#0	NV	30	-16.71	-0.006671	±2.5	PASS
Band7	10MHz	64QAM	20800	50RB#0	NV	40	-15.02	-0.005996	±2.5	PASS
Band7	10MHz	64QAM	20800	50RB#0	NV	50	-6.78	-0.002707	±2.5	PASS
Band7	10MHz	64QAM	21100	50RB#0	NV	-30	-11.93	-0.004706	±2.5	PASS
Band7	10MHz	64QAM	21100	50RB#0	NV	-20	-22.53	-0.008888	±2.5	PASS
Band7	10MHz	64QAM	21100	50RB#0	NV	-10	-17.19	-0.006781	±2.5	PASS
Band7	10MHz	64QAM	21100	50RB#0	NV	0	-16.19	-0.006387	±2.5	PASS
Band7	10MHz	64QAM	21100	50RB#0	NV	10	-19.86	-0.007834	±2.5	PASS
Band7	10MHz	64QAM	21100	50RB#0	NV	20	-6.28	-0.002477	±2.5	PASS
Band7	10MHz	64QAM	21100	50RB#0	NV	30	-22.50	-0.008876	±2.5	PASS
Band7	10MHz	64QAM	21100	50RB#0	NV	40	-17.87	-0.007049	±2.5	PASS
Band7	10MHz	64QAM	21100	50RB#0	NV	50	-9.80	-0.003866	±2.5	PASS
Band7	10MHz	64QAM	21400	50RB#0	NV	-30	-20.31	-0.007918	±2.5	PASS
Band7	10MHz	64QAM	21400	50RB#0	NV	-20	-16.98	-0.006620	±2.5	PASS
Band7	10MHz	64QAM	21400	50RB#0	NV	-10	-17.12	-0.006674	±2.5	PASS
Band7	10MHz	64QAM	21400	50RB#0	NV	0	-21.24	-0.008281	±2.5	PASS
Band7	10MHz	64QAM	21400	50RB#0	NV	10	-16.64	-0.006487	±2.5	PASS
Band7	10MHz	64QAM	21400	50RB#0	NV	20	-20.87	-0.008136	±2.5	PASS
Band7	10MHz	64QAM	21400	50RB#0	NV	30	-16.09	-0.006273	±2.5	PASS
Band7	10MHz	64QAM	21400	50RB#0	NV	40	-15.64	-0.006097	±2.5	PASS
Band7	10MHz	64QAM	21400	50RB#0	NV	50	-18.87	-0.007357	±2.5	PASS
Band7	15MHz	64QAM	20825	75RB#0	NV	-30	-16.31	-0.006504	±2.5	PASS
Band7	15MHz	64QAM	20825	75RB#0	NV	-20	12.07	0.004814	±2.5	PASS
Band7	15MHz	64QAM	20825	75RB#0	NV	-10	-15.78	-0.006293	±2.5	PASS
Band7	15MHz	64QAM	20825	75RB#0	NV	0	-9.28	-0.003701	±2.5	PASS
Band7	15MHz	64QAM	20825	75RB#0	NV	10	9.80	0.003908	±2.5	PASS
Band7	15MHz	64QAM	20825	75RB#0	NV	20	9.68	0.003860	±2.5	PASS
Band7	15MHz	64QAM	20825	75RB#0	NV	30	-10.79	-0.004303	±2.5	PASS
Band7	15MHz	64QAM	20825	75RB#0	NV	40	11.46	0.004570	±2.5	PASS

Band7	15MHz	64QAM	20825	75RB#0	NV	50	-7.60	-0.003031	±2.5	PASS
Band7	15MHz	64QAM	21100	75RB#0	NV	-30	-21.63	-0.008533	±2.5	PASS
Band7	15MHz	64QAM	21100	75RB#0	NV	-20	-13.52	-0.005333	±2.5	PASS
Band7	15MHz	64QAM	21100	75RB#0	NV	-10	-22.92	-0.009041	±2.5	PASS
Band7	15MHz	64QAM	21100	75RB#0	NV	0	-8.57	-0.003381	±2.5	PASS
Band7	15MHz	64QAM	21100	75RB#0	NV	10	-19.87	-0.007838	±2.5	PASS
Band7	15MHz	64QAM	21100	75RB#0	NV	20	-19.83	-0.007822	±2.5	PASS
Band7	15MHz	64QAM	21100	75RB#0	NV	30	-22.70	-0.008955	±2.5	PASS
Band7	15MHz	64QAM	21100	75RB#0	NV	40	-21.82	-0.008607	±2.5	PASS
Band7	15MHz	64QAM	21100	75RB#0	NV	50	-27.31	-0.010773	±2.5	PASS
Band7	15MHz	64QAM	21375	75RB#0	NV	-30	-28.40	-0.011083	±2.5	PASS
Band7	15MHz	64QAM	21375	75RB#0	NV	-20	-27.81	-0.010853	±2.5	PASS
Band7	15MHz	64QAM	21375	75RB#0	NV	-10	-16.95	-0.006615	±2.5	PASS
Band7	15MHz	64QAM	21375	75RB#0	NV	0	-21.33	-0.008324	±2.5	PASS
Band7	15MHz	64QAM	21375	75RB#0	NV	10	-23.65	-0.009229	±2.5	PASS
Band7	15MHz	64QAM	21375	75RB#0	NV	20	-26.74	-0.010435	±2.5	PASS
Band7	15MHz	64QAM	21375	75RB#0	NV	30	-18.58	-0.007251	±2.5	PASS
Band7	15MHz	64QAM	21375	75RB#0	NV	40	-25.29	-0.009869	±2.5	PASS
Band7	15MHz	64QAM	21375	75RB#0	NV	50	-29.04	-0.011333	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	-30	-14.26	-0.005681	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	-20	-26.61	-0.010602	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	-10	-28.82	-0.011482	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	0	-25.36	-0.010104	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	10	-29.78	-0.011865	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	20	-29.94	-0.011928	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	30	-28.32	-0.011283	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	40	-17.68	-0.007044	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	50	-31.36	-0.012494	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	-30	-13.99	-0.005519	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	-20	-15.64	-0.006170	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	-10	-19.24	-0.007590	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	0	-11.37	-0.004485	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	10	-25.78	-0.010170	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	20	-18.67	-0.007365	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	30	-6.91	-0.002726	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	40	-23.56	-0.009294	±2.5	PASS

Band7	20MHz	64QAM	21100	100RB#0	NV	50	-20.36	-0.008032	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	-30	-12.50	-0.004883	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	-20	13.22	0.005164	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	-10	-15.29	-0.005973	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	0	-10.66	-0.004164	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	10	6.64	0.002594	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	20	-16.48	-0.006438	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	30	-7.40	-0.002891	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	40	13.06	0.005102	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	50	-3.73	-0.001457	±2.5	PASS

*** The End ***