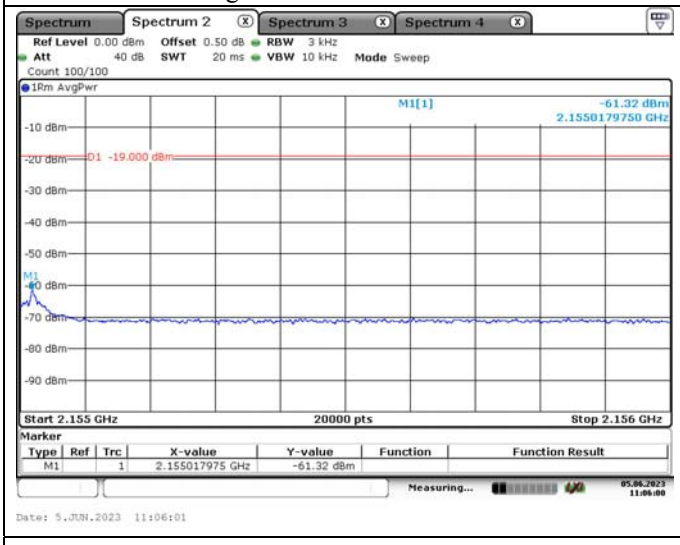
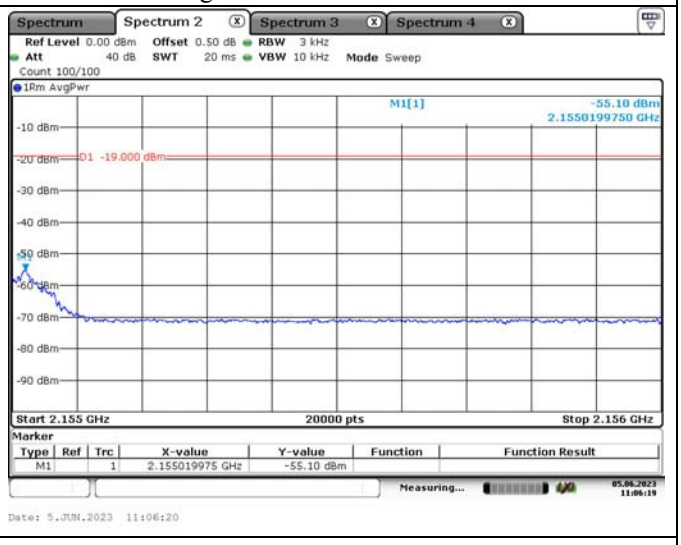
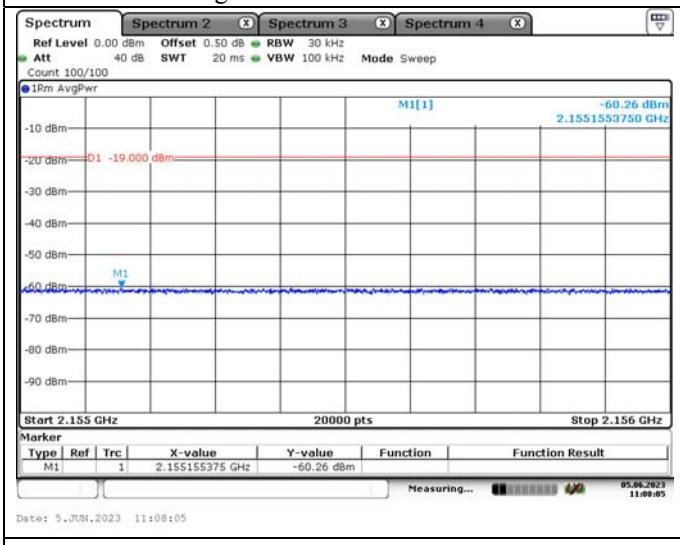
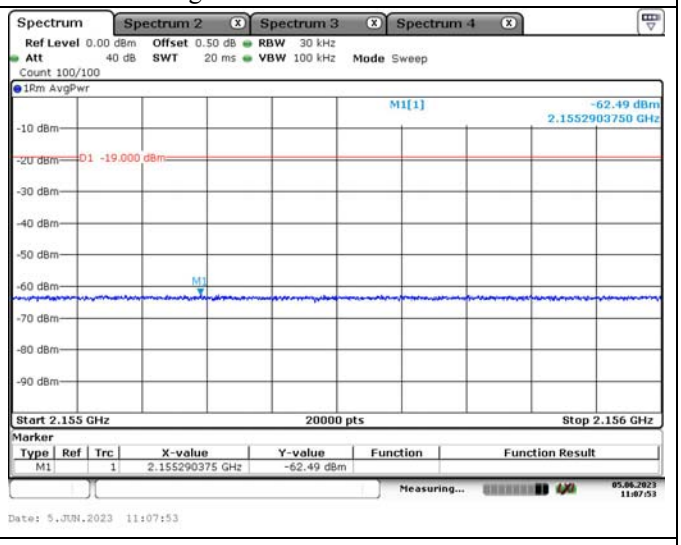
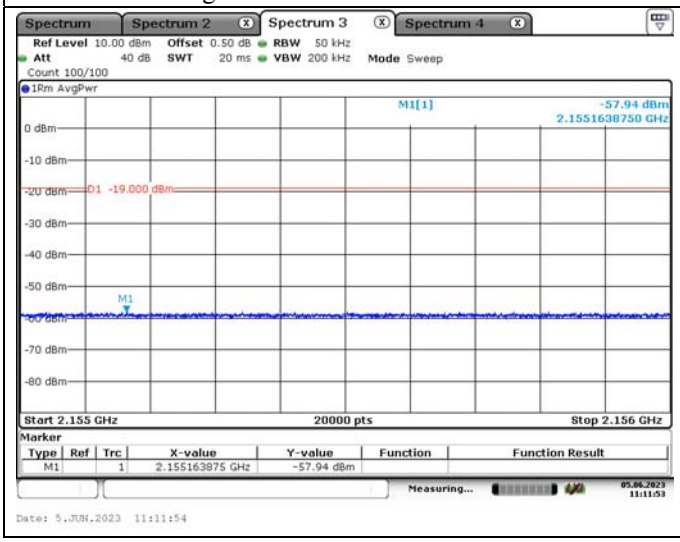
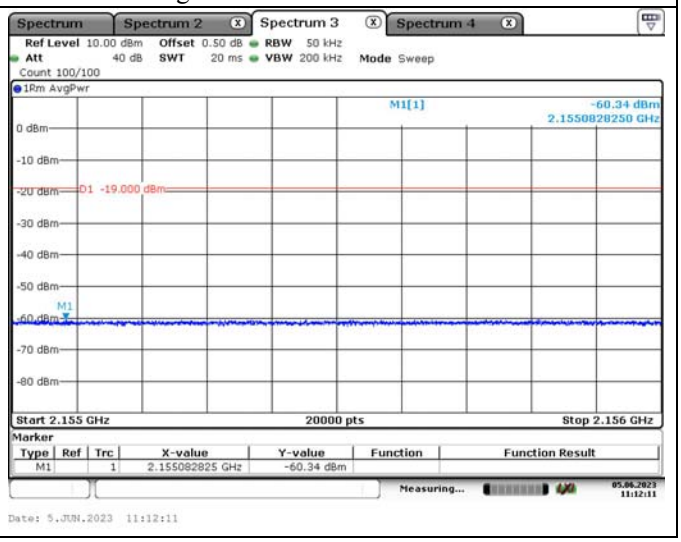
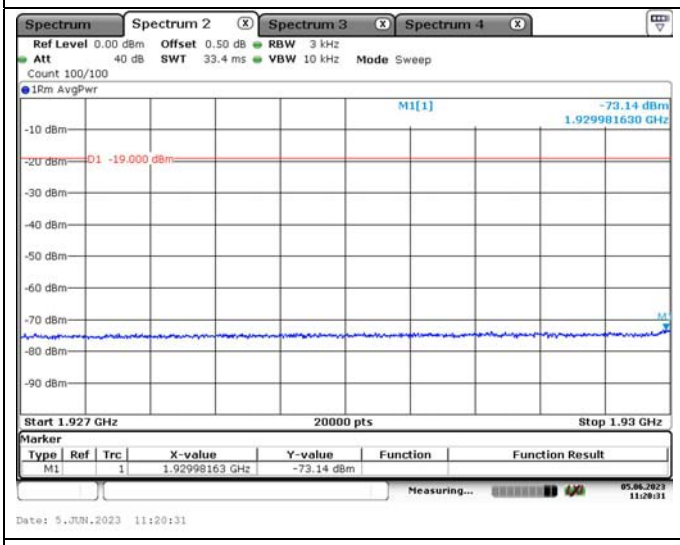
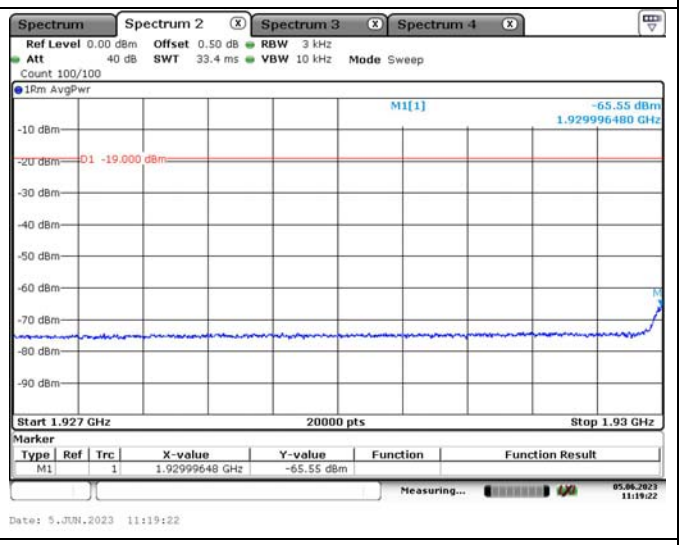
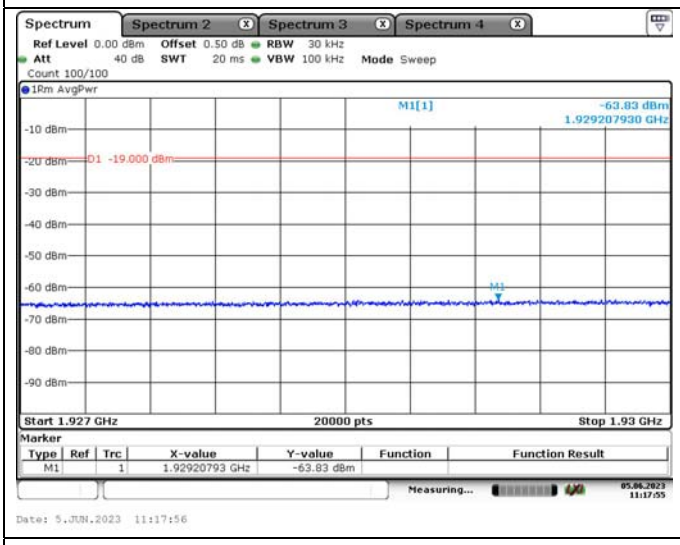
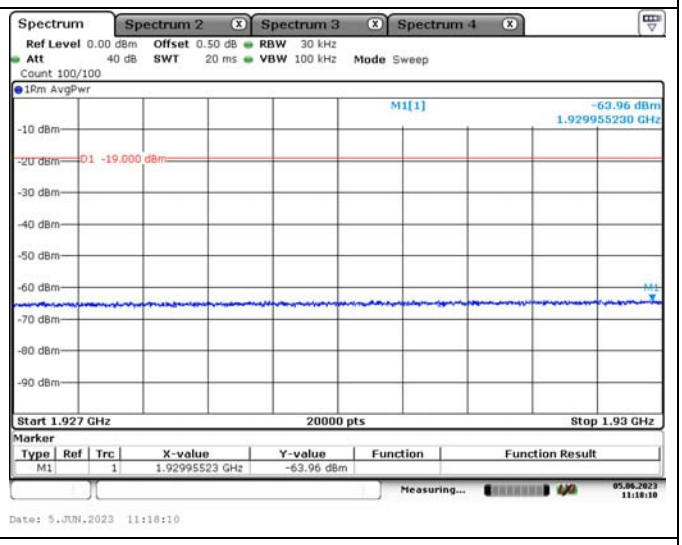
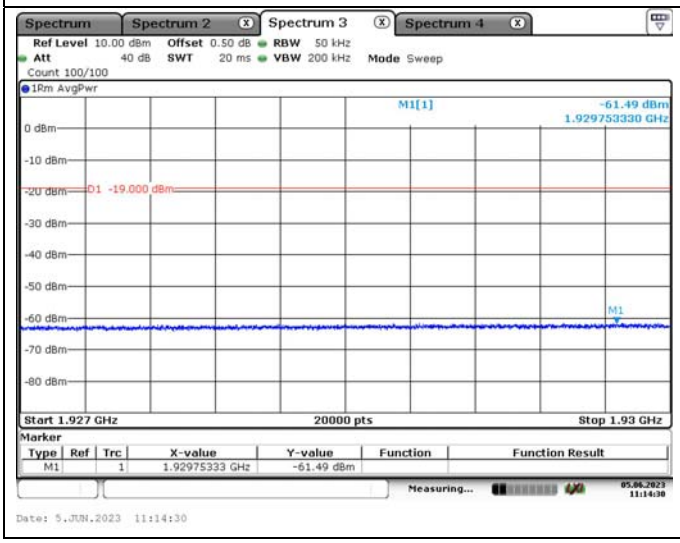
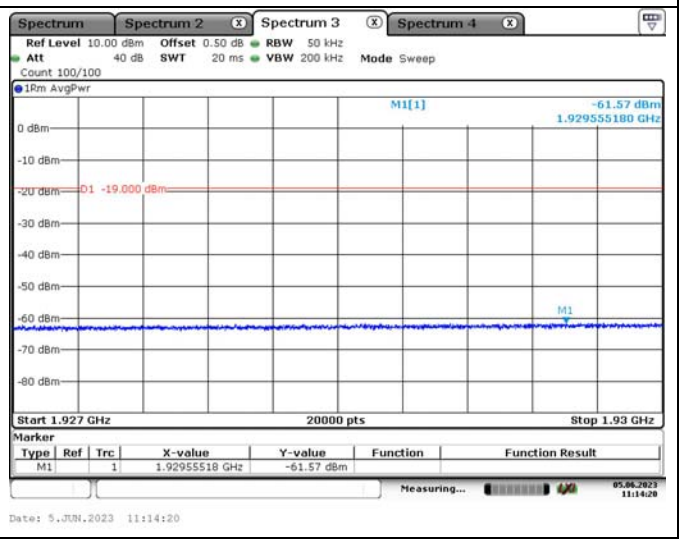
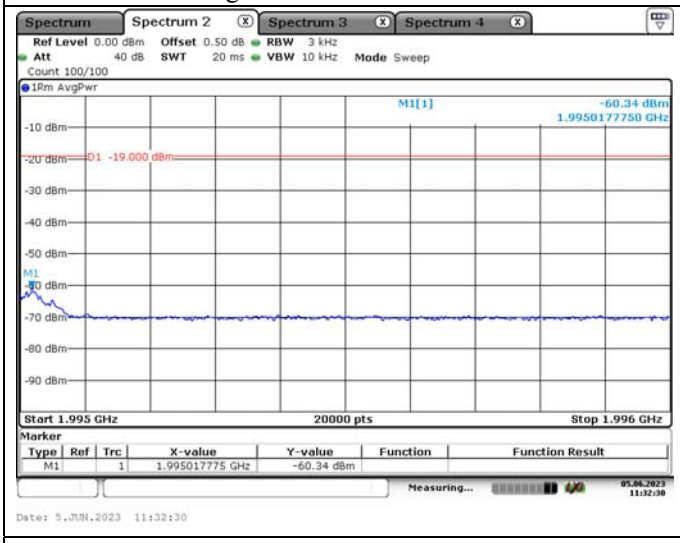
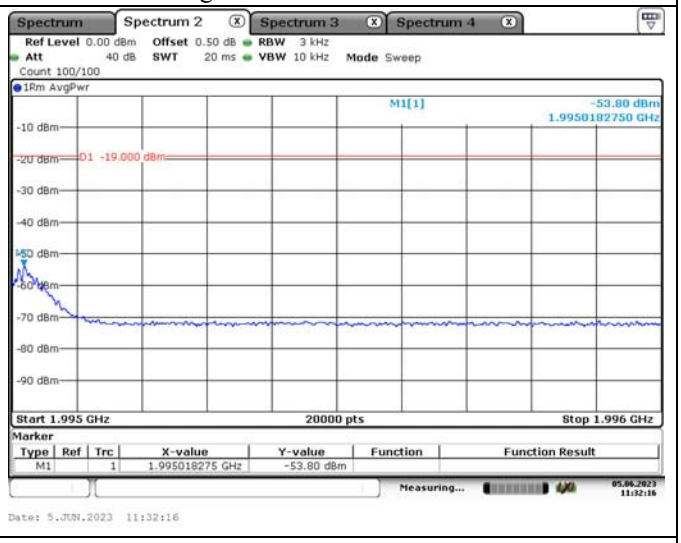
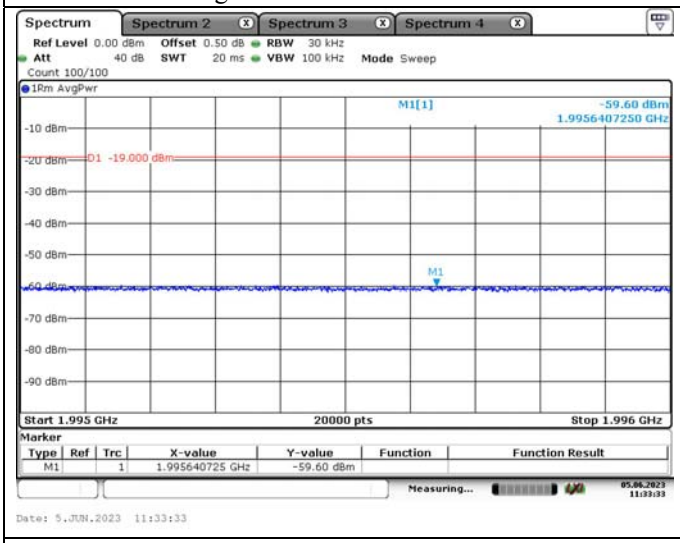
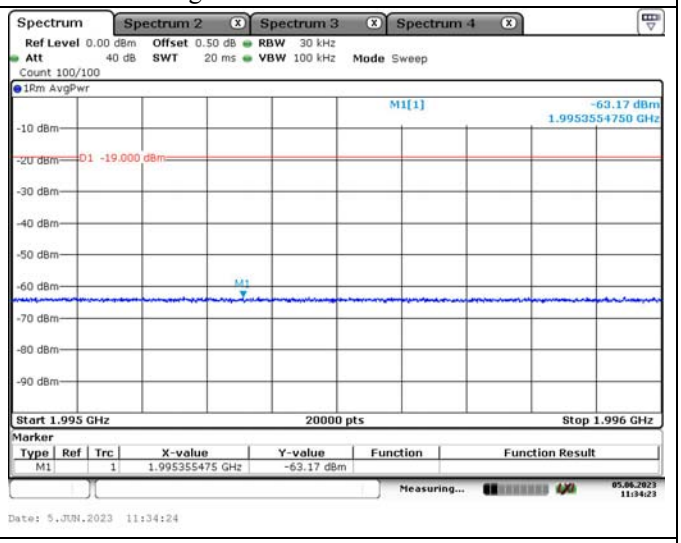
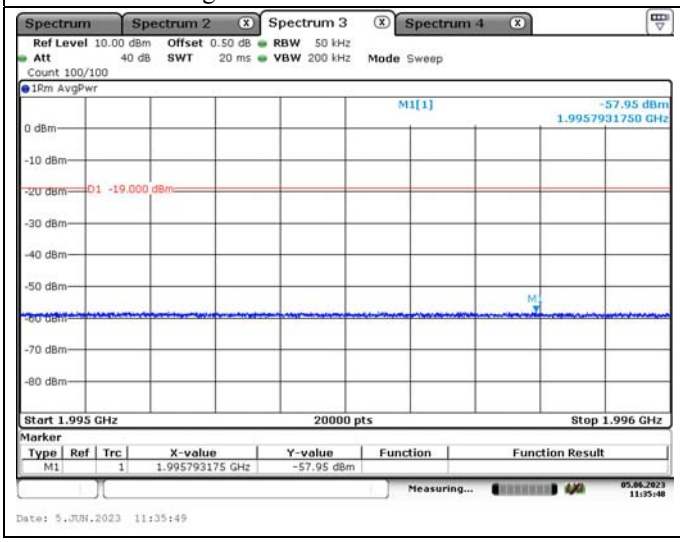
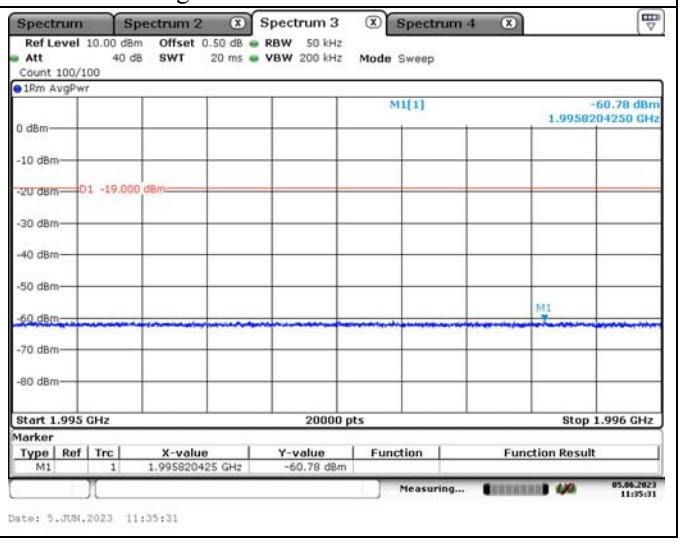
Right Side-GSM-Pre AGC	Right Side-GSM-Above AGC
	
Right Side-CDMA-Pre AGC	Right Side-CDMA-Above AGC
	
Right Side-WCDMA-Pre AGC	Right Side-WCDMA-Above AGC
	

PCS Band Downlink

Left Side-GSM-Pre AGC	Left Side-GSM-Above AGC
	
Left Side-CDMA-Pre AGC	Left Side-CDMA-Above AGC
	
Left Side-WCDMA-Pre AGC	Left Side-WCDMA-Above AGC
	

Right Side-GSM-Pre AGC	Right Side-GSM-Above AGC
	
Right Side-CDMA-Pre AGC	Right Side-CDMA-Above AGC
	
Right Side-WCDMA-Pre AGC	Right Side-WCDMA-Above AGC
	

4.6 Spurious Emissions at Antenna Terminals:

Serial Number:	22X8_1	Test Date:	2023/6/5, 2024/3/14
Test Site:	RF	Test Mode:	Transmitting
Tester:	Sern Shen	Test Result:	Pass

Environmental Conditions:

Temperature: (℃)	21.3~28.3	Relative Humidity: (%)	38~45	ATM Pressure: (kPa)	100.2~101.9

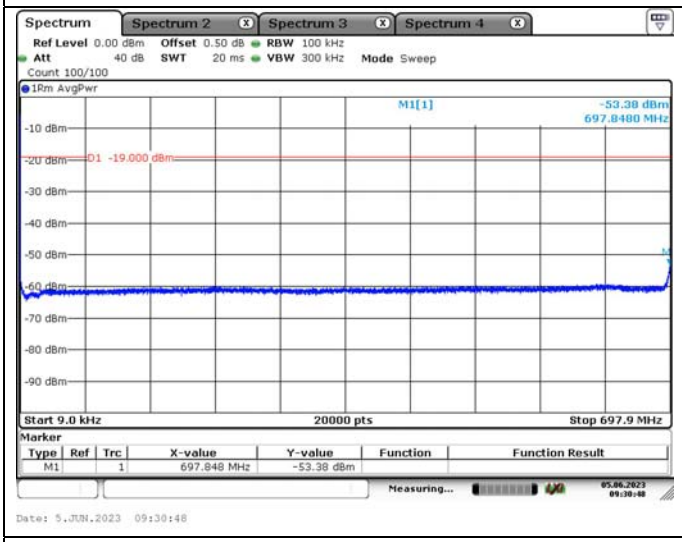
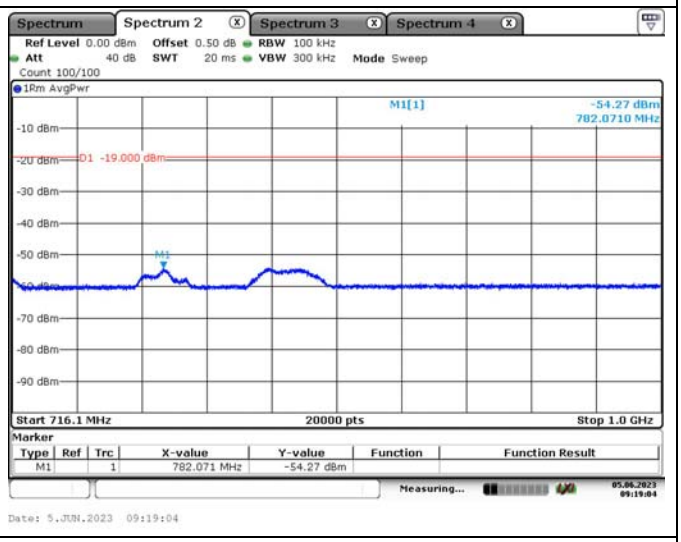
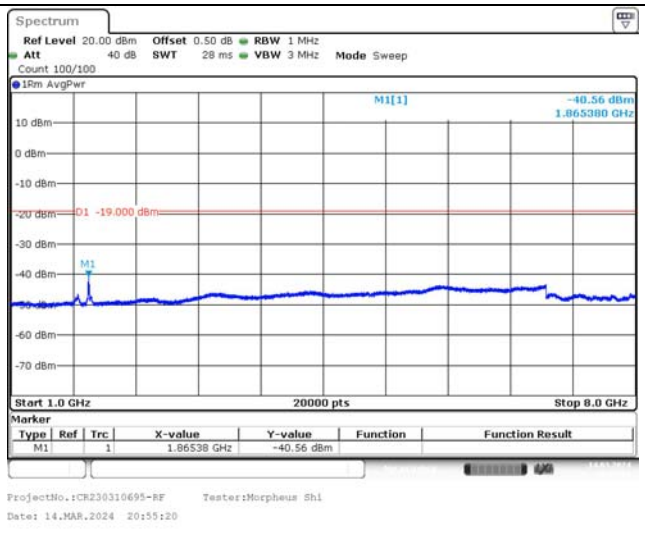
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2022/7/15	2023/7/14
R&S	Spectrum Analyzer	FSV40	101474	2023/3/31	2024/3/30
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100002	Each time	N/A
Agilent	MXG Vector Signal Generator	N5182B	MY51350144	2022/4/22	2023/4/21
Agilent	MXG Vector Signal Generator	N5182B	MY51350144	2023/3/31	2024/3/30

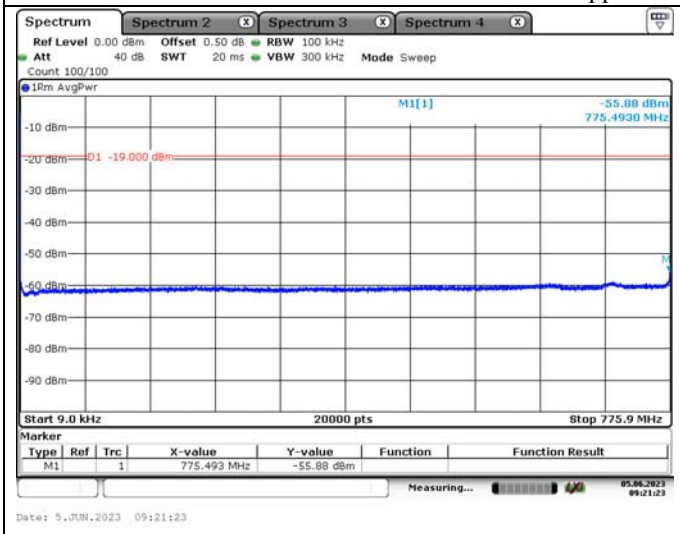
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

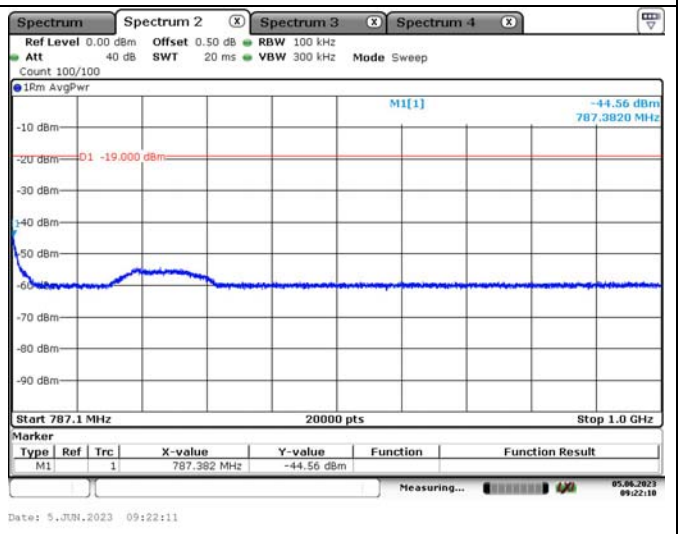
Test Data:

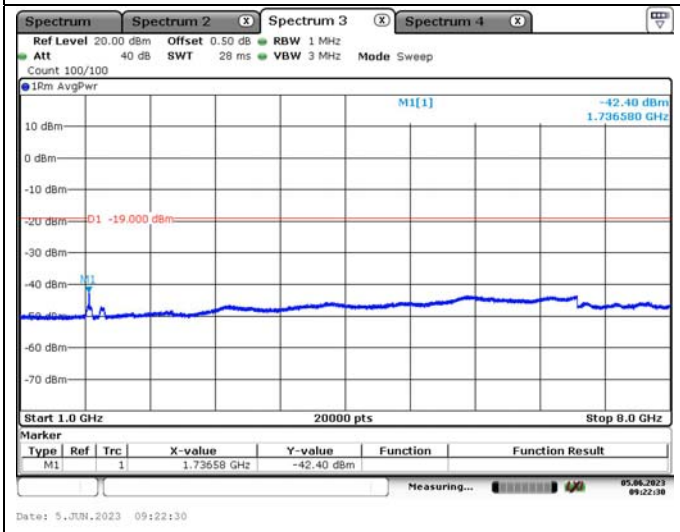
Uplink

Lower 700MHz Band	
	
	

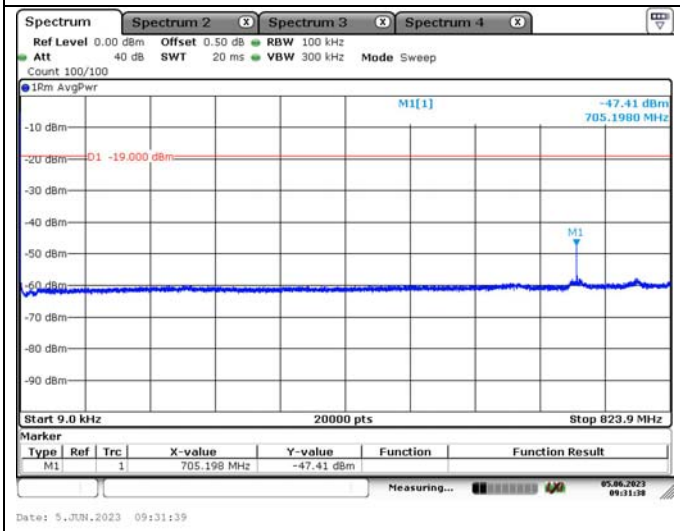
Upper 700MHz Band

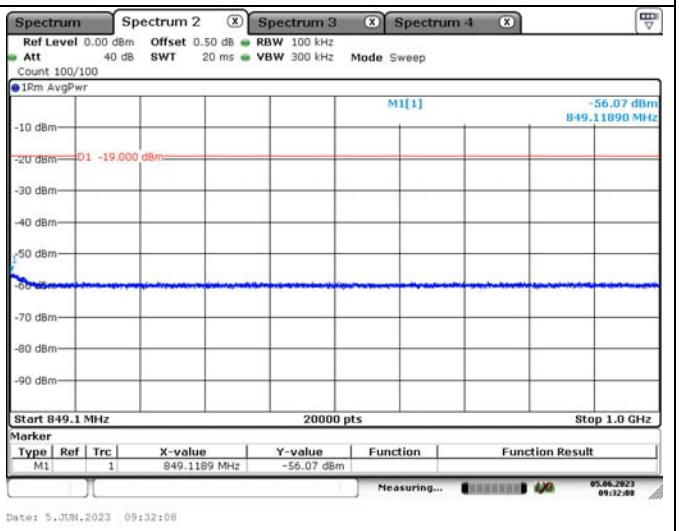


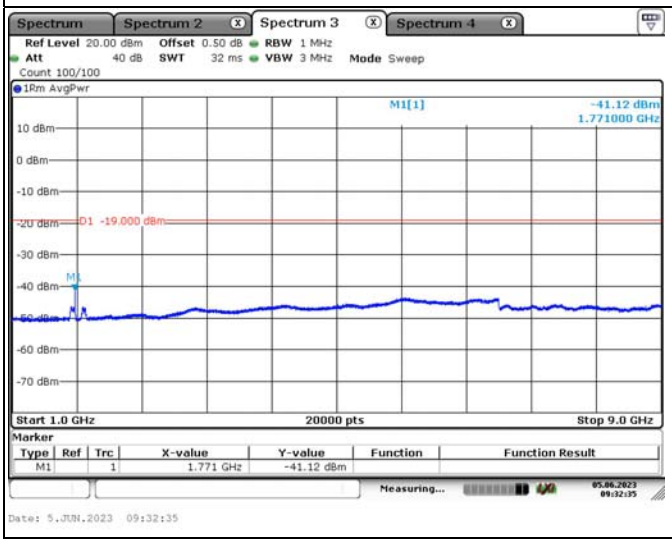




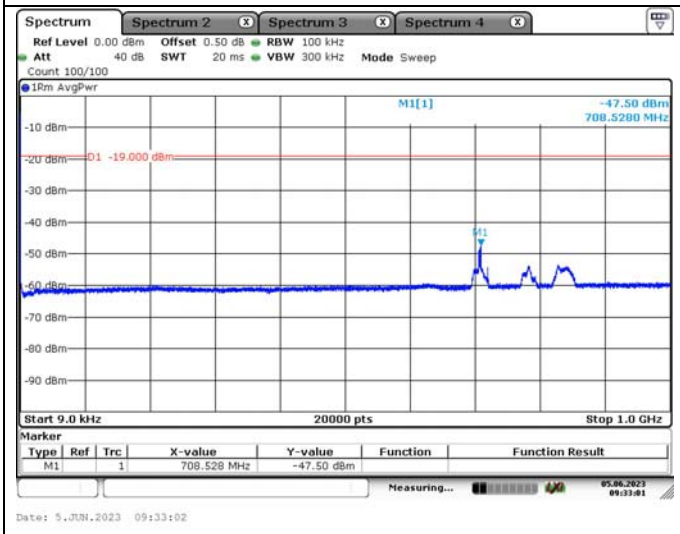
Cellular Band

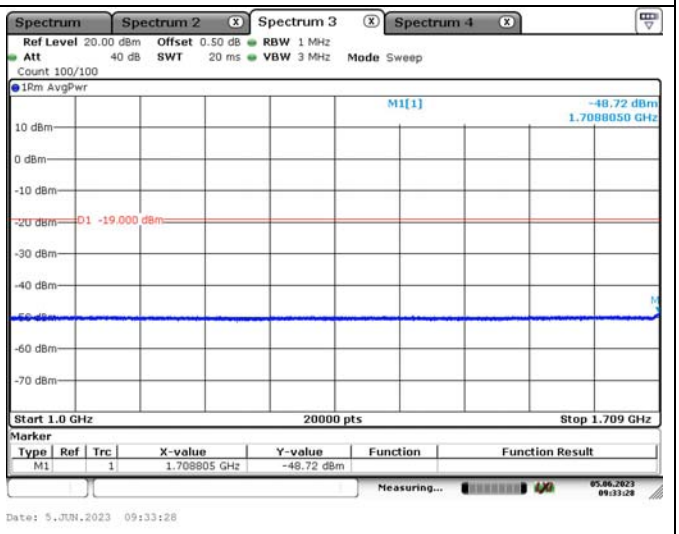


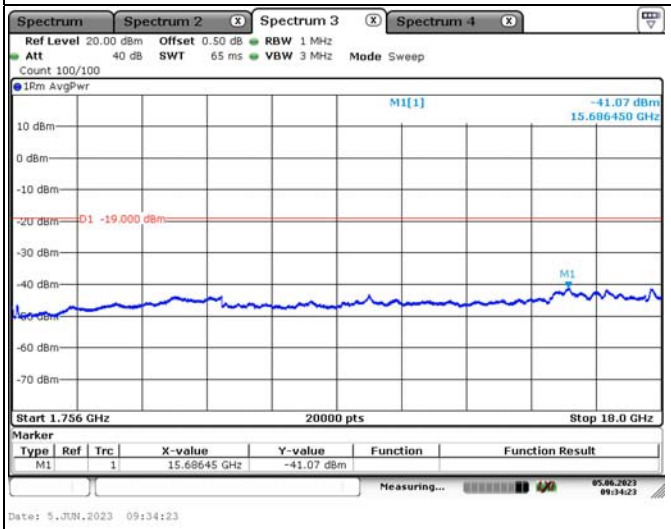




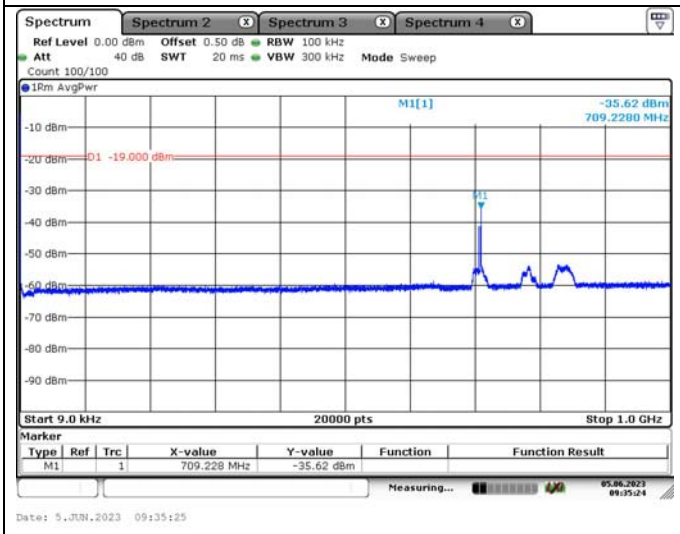
AWS-1 Band

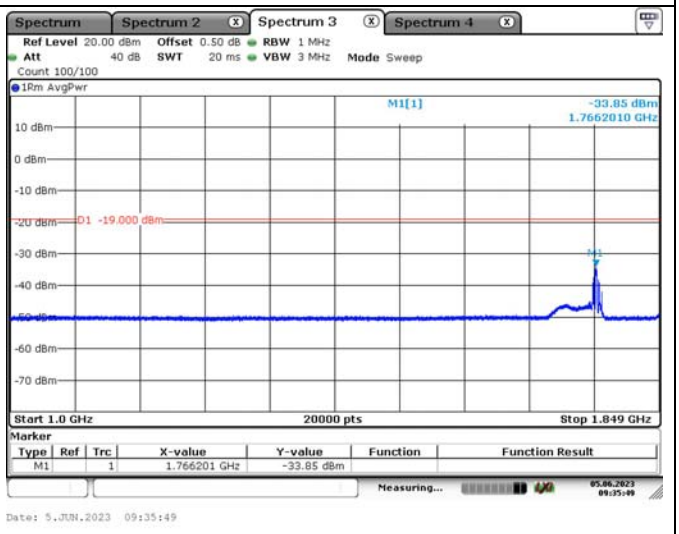

Spectrum
Spectrum 2
Spectrum 3
Spectrum 4
Ref Level 0.00 dBm Offset 0.50 dB RBW 100 kHz
Att 40 dB SWT 20 ms VBW 300 kHz Mode Sweep
Count 100/100
1Rm AvgPwr
M1[1] -47.50 dBm
708.5280 MHz
D1 -19.000 dBm
Start 9.0 kHz 20000 pts Stop 1.0 GHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 708.528 MHz -47.50 dBm
Measuring...
Date: 5.JUN.2023 09:33:02

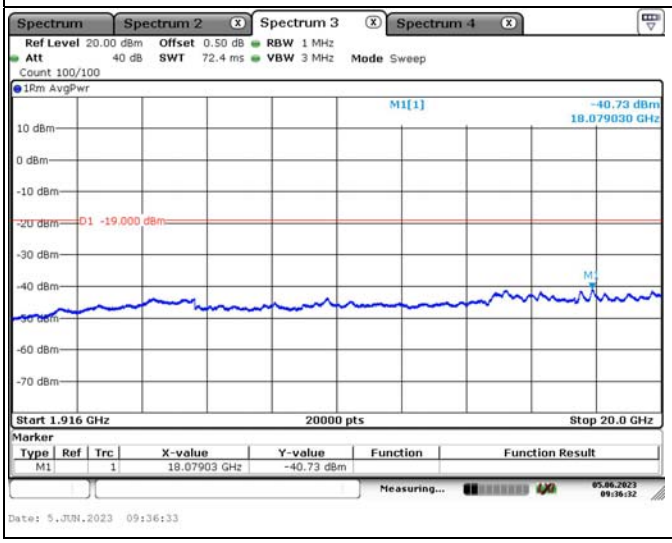

Spectrum
Spectrum 2
Spectrum 3
Spectrum 4
Ref Level 20.00 dBm Offset 0.50 dB RBW 1 MHz
Att 40 dB SWT 20 ms VBW 3 MHz Mode Sweep
Count 100/100
1Rm AvgPwr
M1[1] -48.72 dBm
1.7088050 GHz
D1 -19.000 dBm
Start 1.0 GHz 20000 pts Stop 1.709 GHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 1.708805 GHz -48.72 dBm
Measuring...
Date: 5.JUN.2023 09:33:28


Spectrum
Spectrum 2
Spectrum 3
Spectrum 4
Ref Level 20.00 dBm Offset 0.50 dB RBW 1 MHz
Att 40 dB SWT 65 ms VBW 3 MHz Mode Sweep
Count 100/100
1Rm AvgPwr
M1[1] -41.07 dBm
15.686450 GHz
D1 -19.000 dBm
Start 1.756 GHz 20000 pts Stop 18.0 GHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 15.68645 GHz -41.07 dBm
Measuring...
Date: 5.JUN.2023 09:34:23

PCS Band

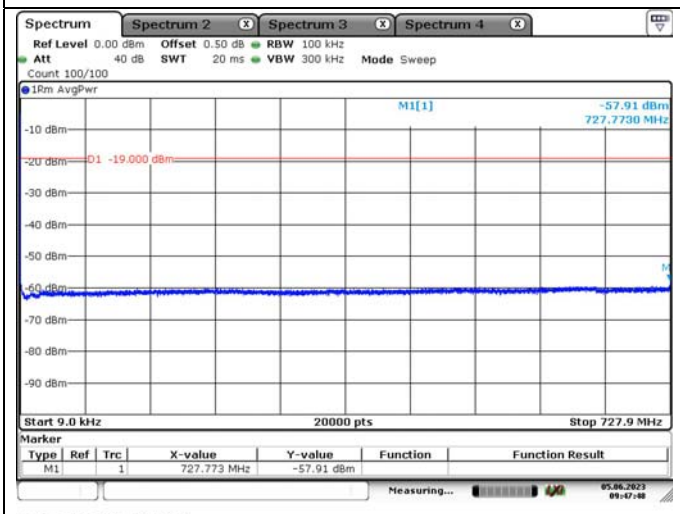

Spectrum
Spectrum 2
Spectrum 3
Spectrum 4
Ref Level 0.00 dBm Offset 0.50 dB RBW 100 kHz
Att 40 dB SWT 20 ms VBW 300 kHz Mode Sweep
Count 100/100
1Rm AvgPwr
M1[1] -35.62 dBm
709.2280 MHz
D1 -19.000 dBm
Start 9.0 kHz 20000 pts Stop 1.0 GHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 709.228 MHz -35.62 dBm
Measuring...
Date: 5.JUN.2023 09:35:25

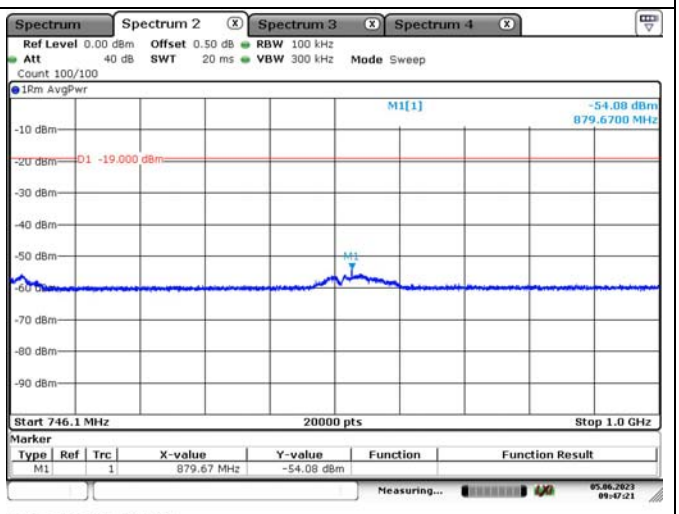

Spectrum
Spectrum 2
Spectrum 3
Spectrum 4
Ref Level 20.00 dBm Offset 0.50 dB RBW 1 MHz
Att 40 dB SWT 20 ms VBW 3 MHz Mode Sweep
Count 100/100
1Rm AvgPwr
M1[1] -33.85 dBm
1.7662010 GHz
D1 -19.000 dBm
Start 1.0 GHz 20000 pts Stop 1.849 GHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 1.766201 GHz -33.85 dBm
Measuring...
Date: 5.JUN.2023 09:35:49

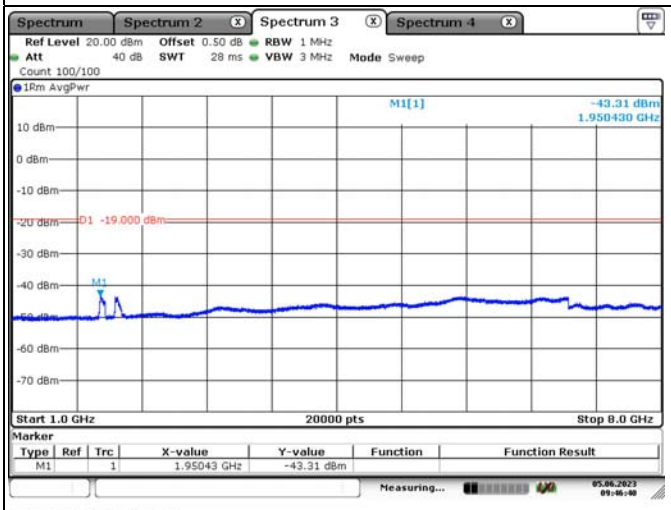

Spectrum
Spectrum 2
Spectrum 3
Spectrum 4
Ref Level 20.00 dBm Offset 0.50 dB RBW 1 MHz
Att 40 dB SWT 72.4 ms VBW 3 MHz Mode Sweep
Count 100/100
1Rm AvgPwr
M1[1] -40.73 dBm
18.079030 GHz
D1 -19.000 dBm
Start 1.916 GHz 20000 pts Stop 20.0 GHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 18.07903 GHz -40.73 dBm
Measuring...
Date: 5.JUN.2023 09:36:33

Downlink

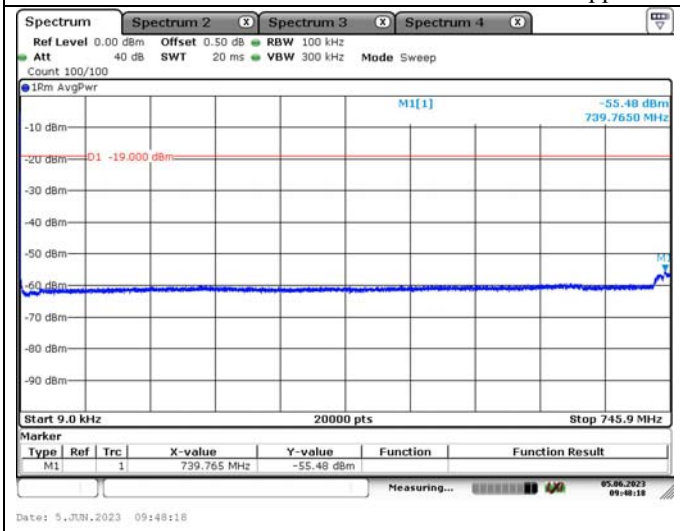
Lower 700MHz Band

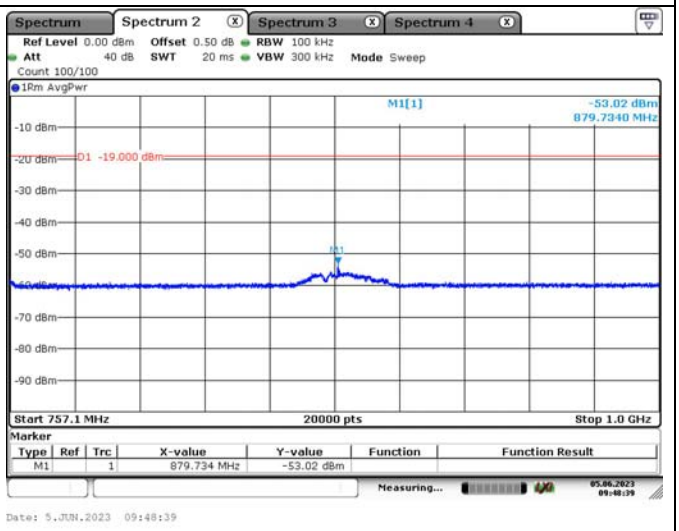


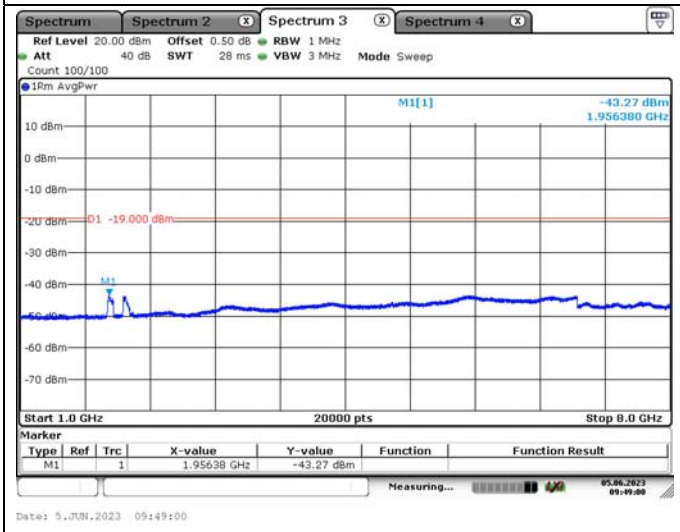




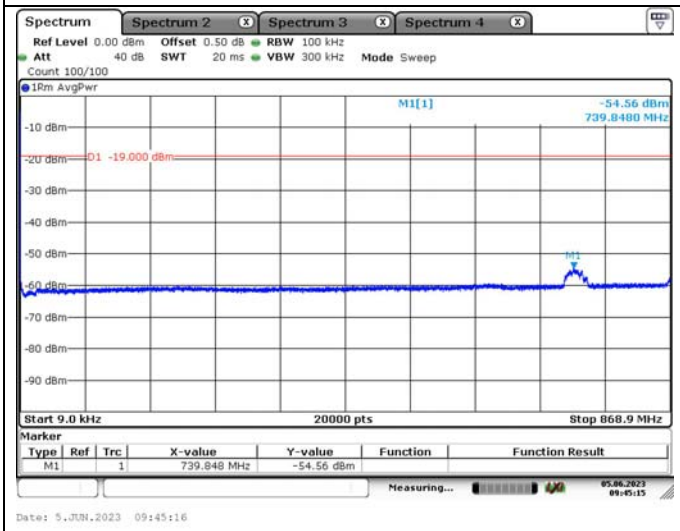
Upper 700MHz Band

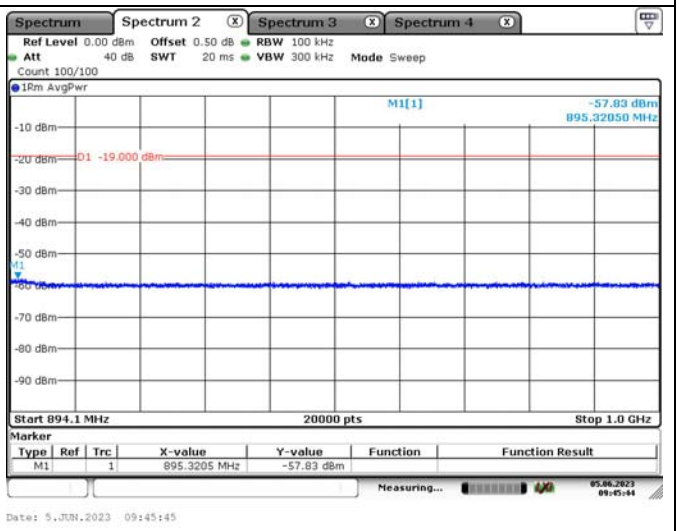


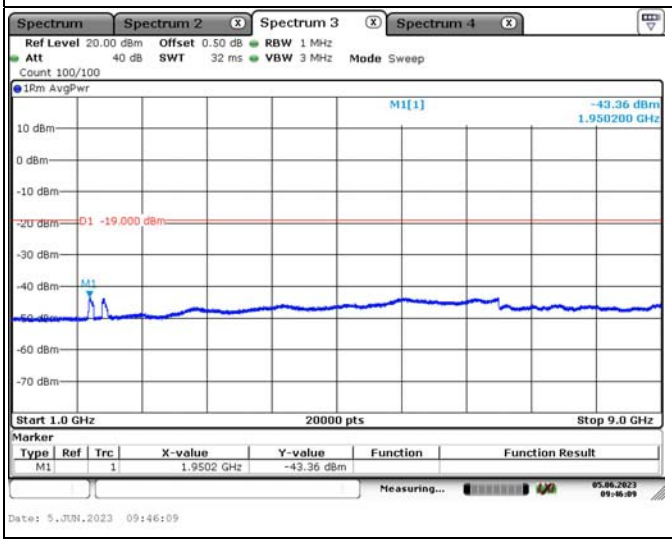




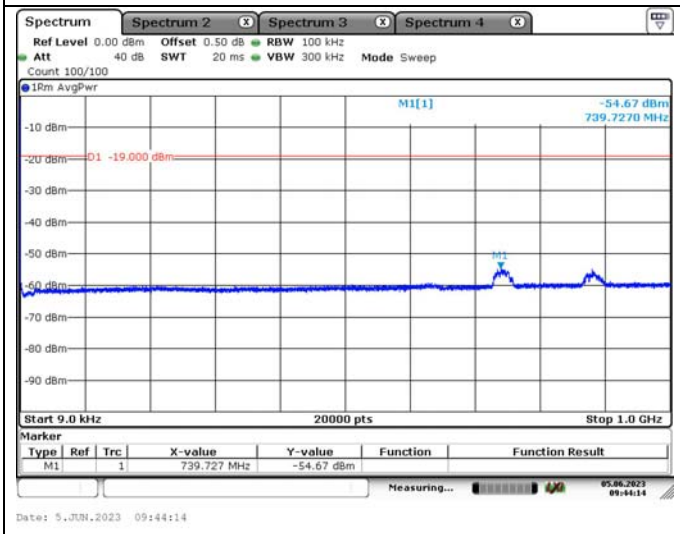
Cellular Band

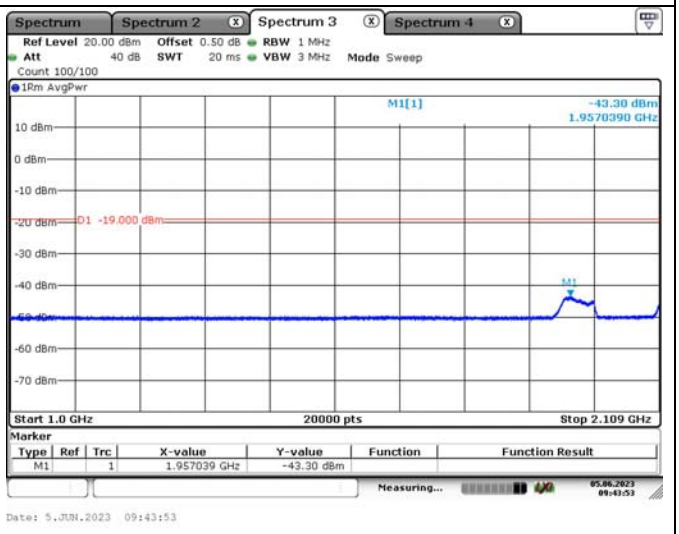


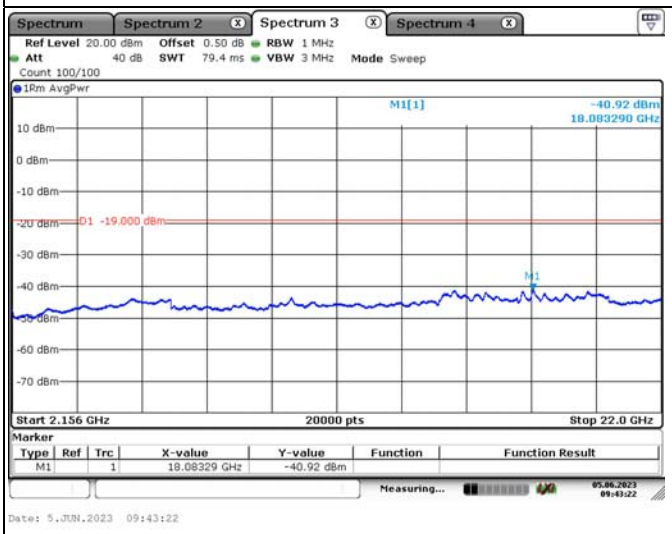




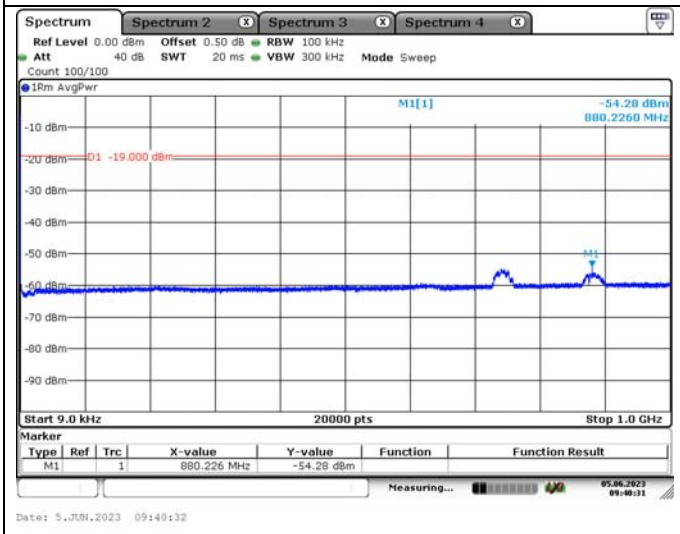
AWS-1 Band

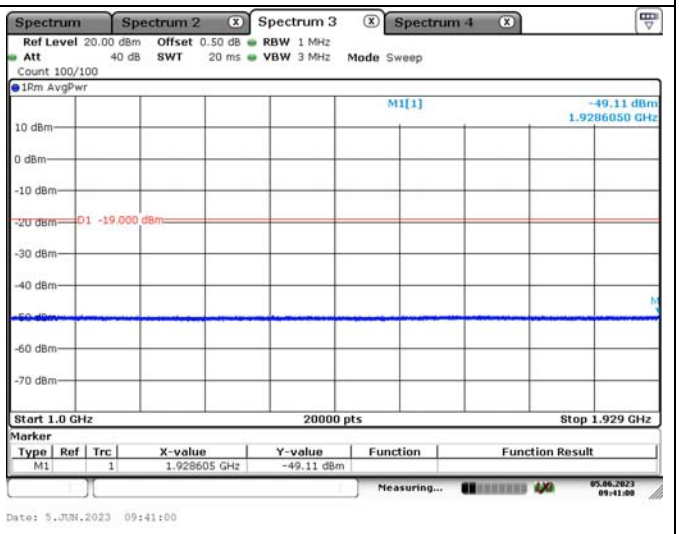

Spectrum
Spectrum 2
Spectrum 3
Spectrum 4
Ref Level 0.00 dBm Offset 0.50 dB RBW 100 kHz
Att 40 dB SWT 20 ms VBW 300 kHz Mode Sweep
Count 100/100
1Rm AvgPwr
M1[1] -54.67 dBm
739.7270 MHz
D1 -19.000 dBm
Start 9.0 kHz 20000 pts Stop 1.0 GHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 739.727 MHz -54.67 dBm
Measuring...
Date: 5.JUN.2023 09:44:14

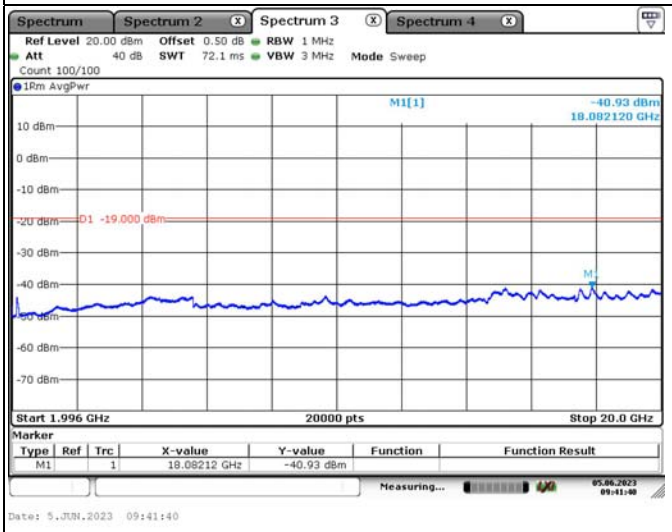

Spectrum
Spectrum 2
Spectrum 3
Spectrum 4
Ref Level 20.00 dBm Offset 0.50 dB RBW 1 MHz
Att 40 dB SWT 20 ms VBW 3 MHz Mode Sweep
Count 100/100
1Rm AvgPwr
M1[1] -43.30 dBm
1.9570390 GHz
D1 -19.000 dBm
Start 1.0 GHz 20000 pts Stop 2.109 GHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 1.957039 GHz -43.30 dBm
Measuring...
Date: 5.JUN.2023 09:43:53


Spectrum
Spectrum 2
Spectrum 3
Spectrum 4
Ref Level 20.00 dBm Offset 0.50 dB RBW 1 MHz
Att 40 dB SWT 79.4 ms VBW 3 MHz Mode Sweep
Count 100/100
1Rm AvgPwr
M1[1] -40.92 dBm
18.083290 GHz
D1 -19.000 dBm
Start 2.156 GHz 20000 pts Stop 22.0 GHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 18.08329 GHz -40.92 dBm
Measuring...
Date: 5.JUN.2023 09:43:22

PCS Band


Spectrum
Spectrum 2
Spectrum 3
Spectrum 4
Ref Level 0.00 dBm Offset 0.50 dB RBW 100 kHz
Att 40 dB SWT 20 ms VBW 300 kHz Mode Sweep
Count 100/100
1Rm AvgPwr
M1[1] -54.28 dBm
880.2260 MHz
D1 -19.000 dBm
Start 9.0 kHz 20000 pts Stop 1.0 GHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 880.226 MHz -54.28 dBm
Measuring...
Date: 5.JUN.2023 09:40:32


Spectrum
Spectrum 2
Spectrum 3
Spectrum 4
Ref Level 20.00 dBm Offset 0.50 dB RBW 1 MHz
Att 40 dB SWT 20 ms VBW 3 MHz Mode Sweep
Count 100/100
1Rm AvgPwr
M1[1] -49.11 dBm
1.9286050 GHz
D1 -19.000 dBm
Start 1.0 GHz 20000 pts Stop 1.929 GHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 1.928605 GHz -49.11 dBm
Measuring...
Date: 5.JUN.2023 09:41:00


Spectrum
Spectrum 2
Spectrum 3
Spectrum 4
Ref Level 20.00 dBm Offset 0.50 dB RBW 1 MHz
Att 40 dB SWT 72.1 ms VBW 3 MHz Mode Sweep
Count 100/100
1Rm AvgPwr
M1[1] -40.93 dBm
18.082120 GHz
D1 -19.000 dBm
Start 1.996 GHz 20000 pts Stop 20.0 GHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 18.08212 GHz -40.93 dBm
Measuring...
Date: 5.JUN.2023 09:41:40

4.7 Noise Limits:

Serial Number:	22X8_1	Test Date:	2023/4/20~2023/4/23
Test Site:	RF	Test Mode:	Transmitting
Tester:	Sern Shen	Test Result:	Pass

Environmental Conditions:

Temperature: (℃)	21.3~28.3	Relative Humidity: (%)	38~45	ATM Pressure: (kPa)	100.2~101.9

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2022/7/15	2023/7/14
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100002	Each time	N/A
Agilent	MXG Vector Signal Generator	N5182B	MY51350144	2023/3/31	2024/3/30

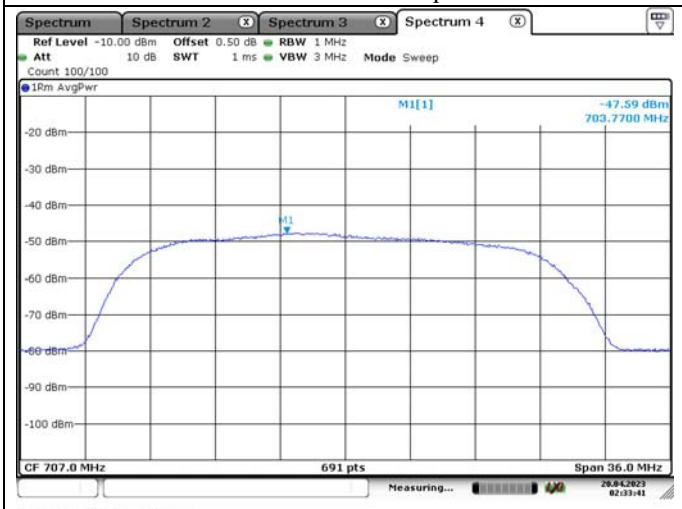
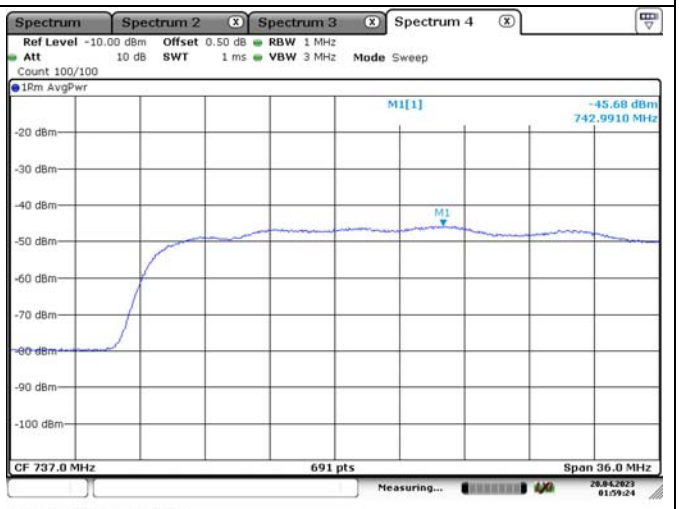
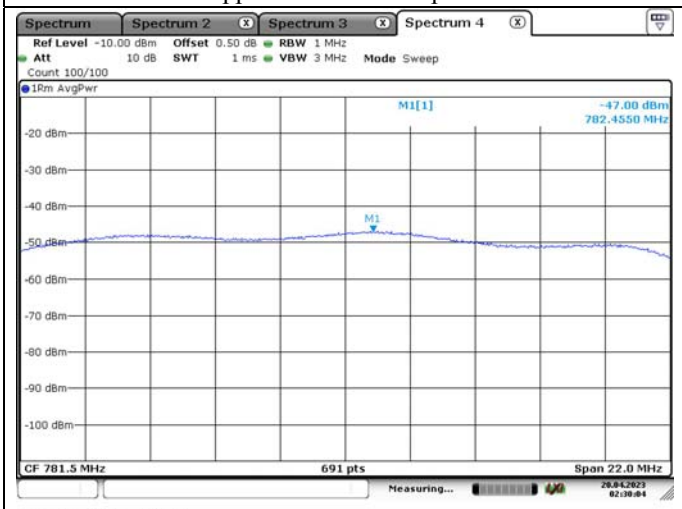
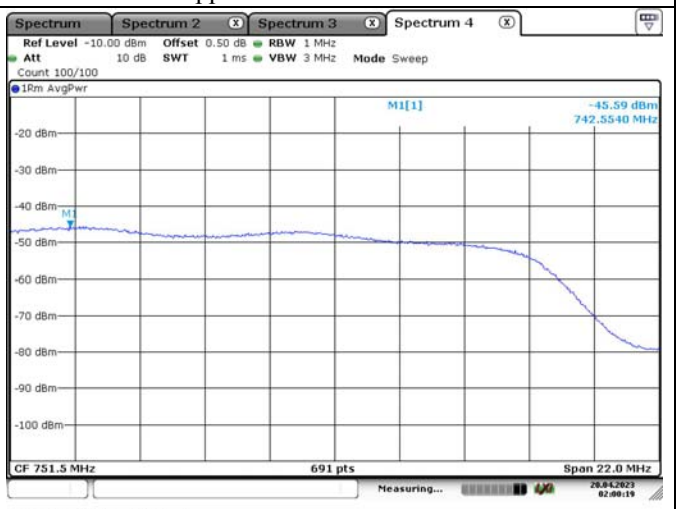
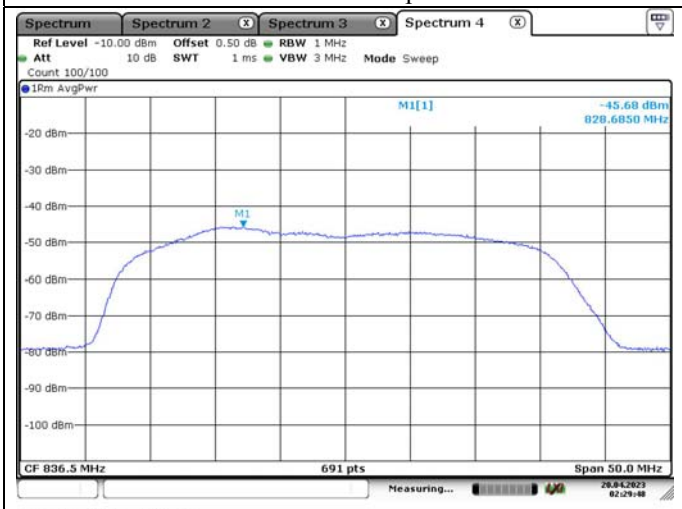
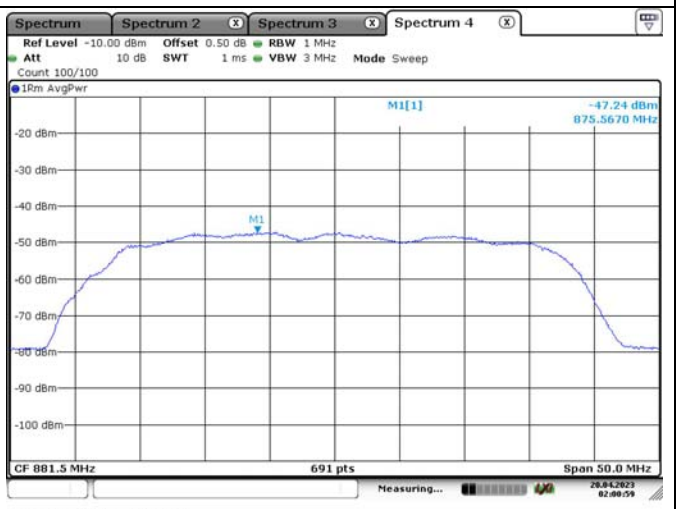
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

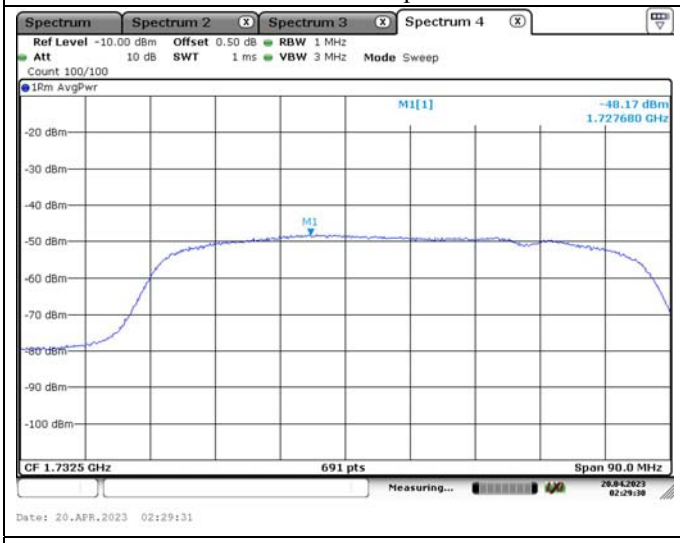
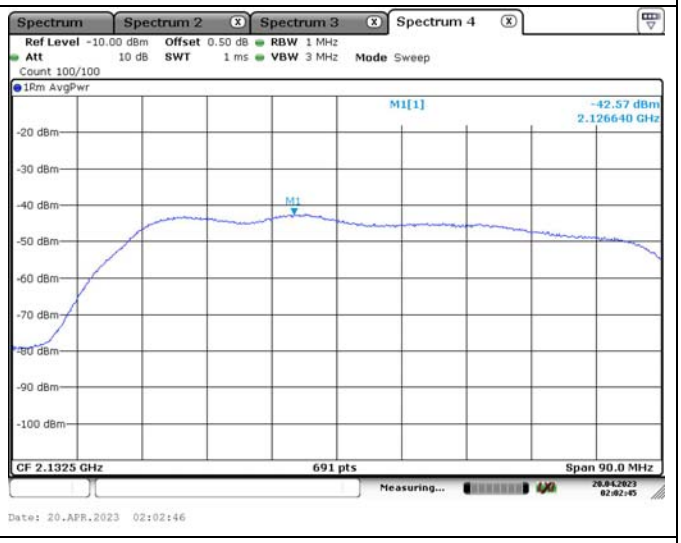
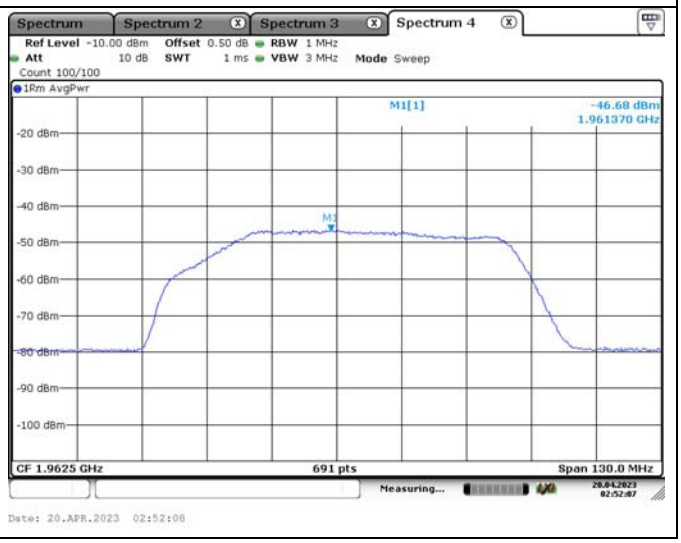
Test Data:

Maximum Transmitter Noise Power Level

Operation Band	Uplink Noise (dBm/MHz)	Downlink Noise (dBm/MHz)	Limit (dBm/MHz)
Lower 700MHz	-47.59	-45.68	-45.51
Upper 700MHz	-47.00	-45.59	-44.64
Cellular	-45.68	-47.24	-44.05
AWS-1	-48.17	-42.57	-37.73
PCS	-52.46	-46.68	-37.01

Note:
1. Mobile booster maximum noise power shall not exceed -59 dBm/MHz.
2. Fixed booster maximum noise power shall not exceed −102.5 dBm/MHz + 20 Log10 (Frequency), where Frequency is the uplink mid-band frequency of the supported spectrum bands in MHz.
3. Device is fixed consumer signal boosters.

Lower 700M Band-Uplink	Lower 700M Band-Downlink
	
Upper 700M Band-Uplink	Upper 700M Band-Downlink
	
Cellular Band-Uplink	Cellular Band-Downlink
	

AWS-1 Band-Uplink	AWS-1 Band-Downlink
	
PCS Band-Uplink	PCS Band-Downlink
	

Variable Uplink Noise Limit:

Lower 700			
RSSI	**Noise**	**Limit**	**Margin**
dBm	**dBm**	**dBm**	**dB**
-90	-46.3	-45.51	0.79
-80	-46.4	-45.51	0.89
-70	-46.4	-45.51	0.84
-60	-49.6	-45.51	4.09
-57.49	-51.4	-45.51	5.89
-50.49	-57.1	-52.51	4.59
-44.49	-61.9	-58.51	3.39
-37.49	-82.4	-65.51	16.86
-33	-82.4	-70	12.44
-30	-82.5	-70	12.53
-20	-82.5	-70	12.47
-10	-82.5	-70	12.51

Upper 700			
RSSI	**Noise**	**Limit**	**Margin**
dBm	**dBm**	**dBm**	**dB**
-90	-45.6	-44.64	0.96
-80	-45.6	-44.64	0.96
-70	-45.6	-44.64	0.96
-60	-45.6	-44.64	0.96
-58.36	-46.5	-44.64	1.86
-51.36	-53.0	-51.64	1.36
-46.36	-58.7	-56.64	2.06
-38.36	-82.4	-64.64	17.72
-33	-82.5	-70	12.46
-30	-82.5	-70	12.45
-20	-82.4	-70	12.41
-10	-82.5	-70	12.52

Cellular			
RSSI	**Noise**	**Limit**	**Margin**
dBm	**dBm**	**dBm**	**dB**
-90	-45.7	-44.05	1.63
-80	-45.7	-44.05	1.62
-70	-45.8	-44.05	1.71
-60	-47.6	-44.05	3.58
-58.95	-48.8	-44.05	4.77
-51.95	-55.8	-51.05	4.79
-44.95	-62.1	-58.05	4.06
-39.95	-82.0	-63.05	18.99
-33	-82.3	-70	12.26
-30	-82.2	-70	12.15
-20	-82.2	-70	12.21
-10	-82.2	-70	12.23

AWS-1			
RSSI	**Noise**	**Limit**	**Margin**
dBm	**dBm**	**dBm**	**dB**
-90	-45.1	-37.73	7.33
-80	-45.3	-37.73	7.53
-70	-45.3	-37.73	7.59
-65.27	-45.1	-37.73	7.41
-60.27	-45.2	-42.73	2.51
-50.27	-53.9	-52.73	1.19
-43.27	-63.4	-59.73	3.66
-33	-81.1	-70	11.11
-30	-81.3	-70	11.28
-20	-81.3	-70	11.26
-10	-81.2	-70	11.2

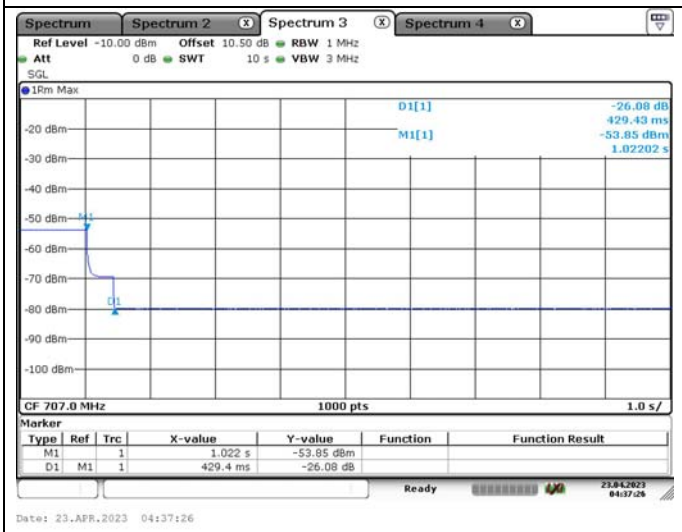
PCS			
RSSI	**Noise**	**Limit**	**Margin**
dBm	**dBm**	**dBm**	**dB**
-90	-44.0	-37.01	7.03
-80	-44.4	-37.01	7.42
-70	-44.6	-37.01	7.59
-65.99	-44.4	-37.01	7.34
-60.99	-43.7	-42.01	1.69
-52.99	-51.2	-50.01	1.19
-43.99	-60.2	-59.01	1.23
-33	-80.9	-70	10.9
-30	-81.0	-70	11.02
-20	-81.0	-70	11.01
-10	-81.0	-70	10.95

Note:
According to KDB 935210 D03 Signal Booster Measurements v04r04 Annex D, the Variable uplink Noise limit is −103 dBm/MHz – RSSI in RSSI-Dependent Region, out of RSSI-Dependent Region, it is it is −102.5 dBm/MHz + 20 Log10 (Frequency), where Frequency is the uplink mid-band frequency of the supported spectrum bands in MHz..

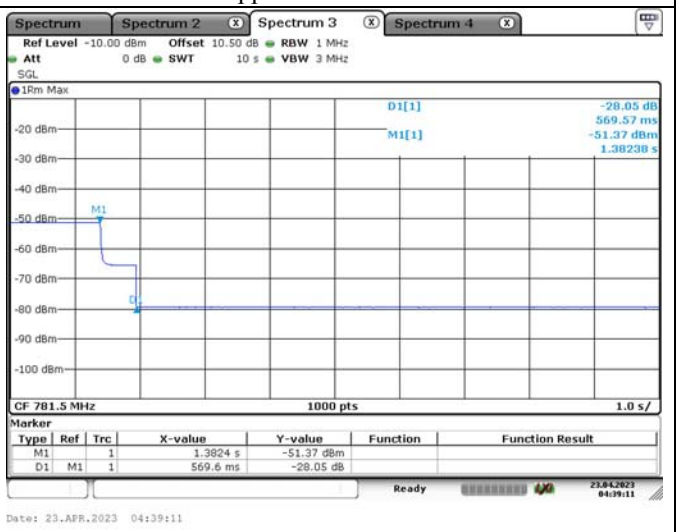
Variable Uplink Noise Timing:

Operating Band	**Measured Value**	**Limit**
	s	**s**
Lower 700MHz	0.429	3
Upper 700MHz	0.570	3
Cellular	0.750	3
AWS-1	0.069	3
PCS	0.449	3

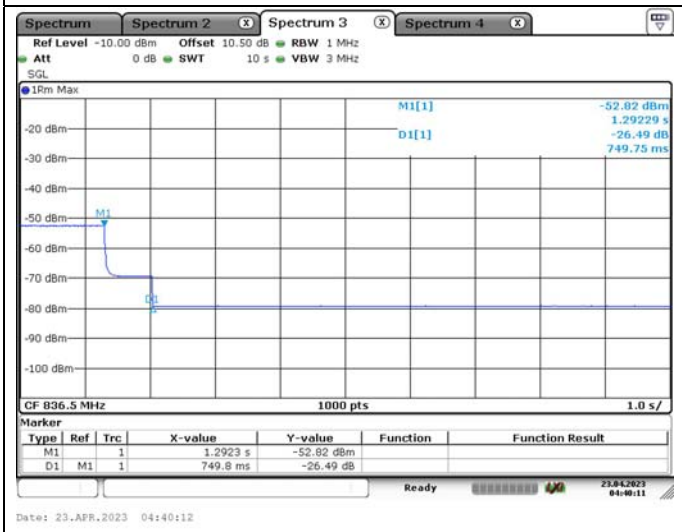
Lower 700MHz Band



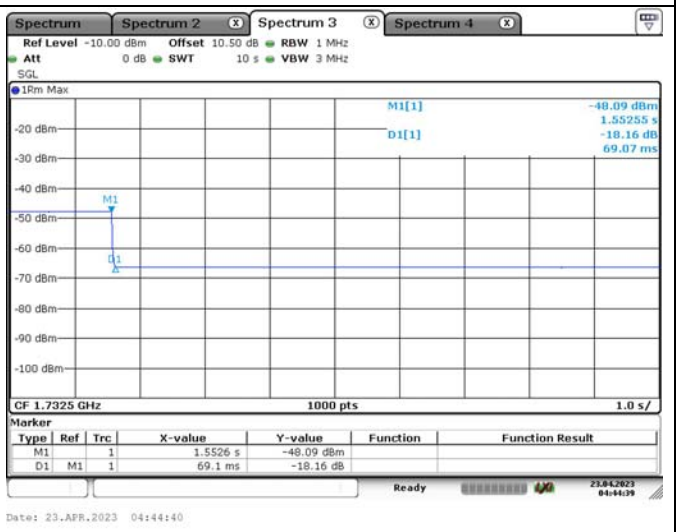
Upper 700MHz Band



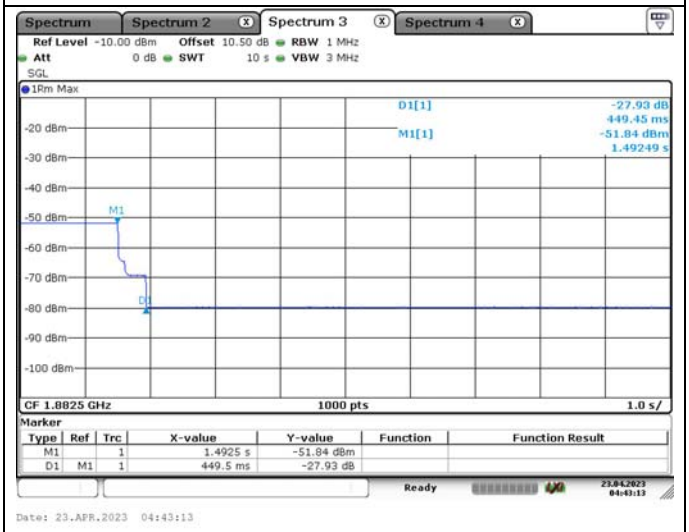
Cellular Band



AWS-1 Band



PCS Band



4.8 Uplink Inactivity:

Serial Number:	22X8_1	Test Date:	2023/6/3
Test Site:	RF	Test Mode:	Transmitting
Tester:	Sern Shen	Test Result:	Pass

Environmental Conditions:

Temperature: (℃)	21.3~28.3	Relative Humidity: (%)	38~45	ATM Pressure: (kPa)	100.2~101.9

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2022/7/15	2023/7/14
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100002	Each time	N/A
Agilent	MXG Vector Signal Generator	N5182B	MY51350144	2023/3/31	2024/3/30

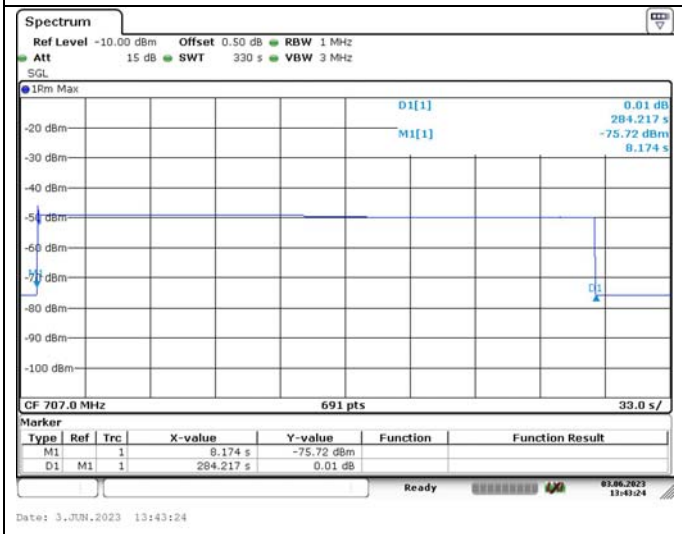
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

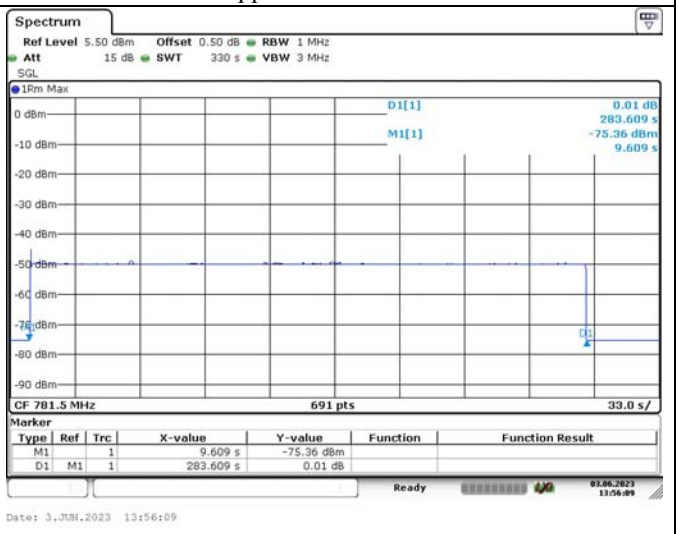
Operation Band	Measured value	Limit
	s	s
Lower 700MHz	284.22	300
Upper 700MHz	283.61	
Cellular	283.13	
AWS-1	283.61	
PCS	283.13	

Note: When the consumer booster is not serving an active device connection after 5 minutes the uplink noise power not exceed −70 dBm/MHz.

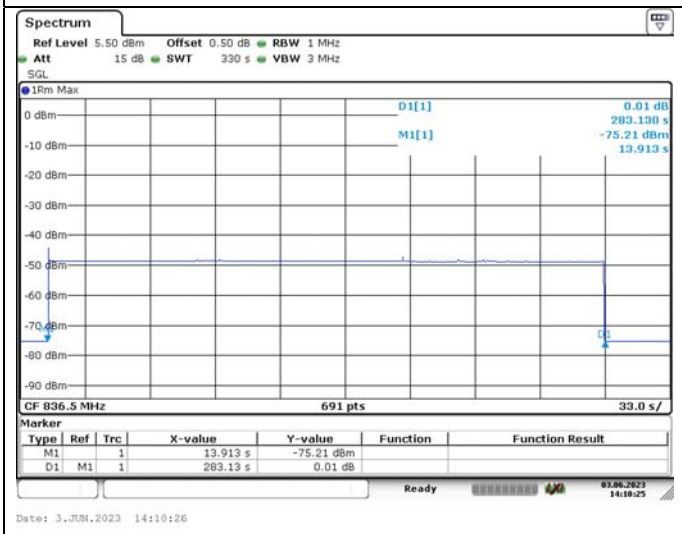
Lower 700MHz Band



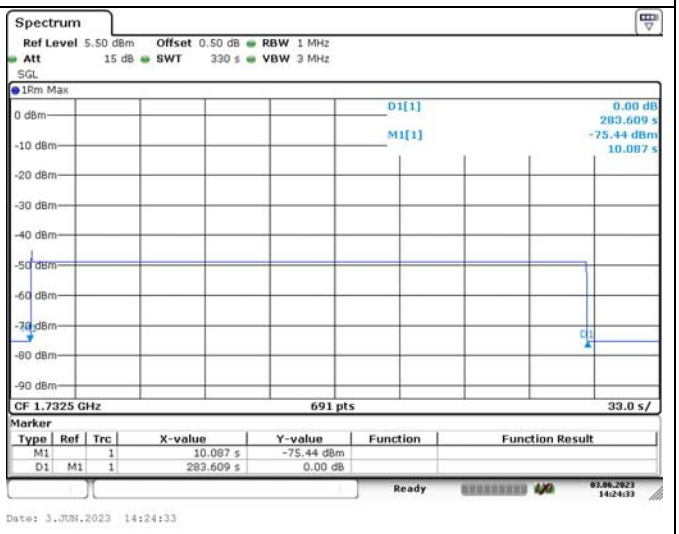
Upper 700MHz Band



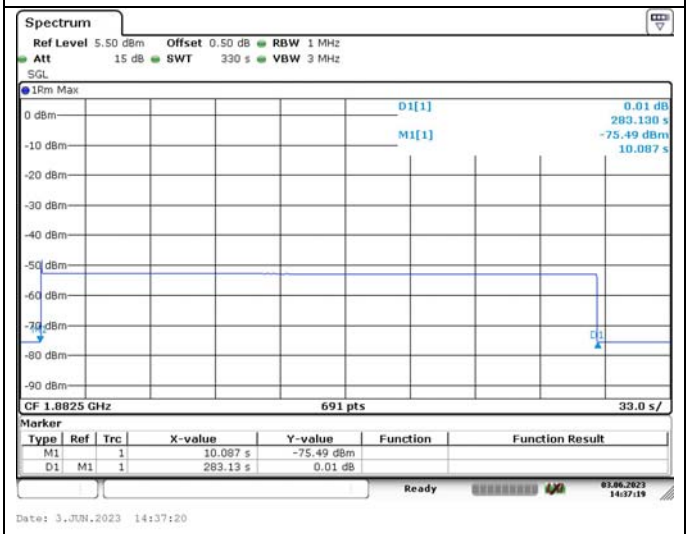
Cellular Band



AWS-1 Band



PCS Band



4.9 Variable Booster Gain:

Serial Number:	22X8_1	Test Date:	2023/4/14~2023/12/27
Test Site:	RF	Test Mode:	Transmitting
Tester:	Sern Shen	Test Result:	Pass

Environmental Conditions:

Temperature: (℃)	21.3~28.3	Relative Humidity: (%)	38~45	ATM Pressure: (kPa)	100.2~101.9

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2022/7/15	2023/7/14
R&S	Spectrum Analyzer	FSV40	101474	2023/3/31	2024/3/30
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100002	Each time	N/A
Agilent	MXG Vector Signal Generator	N5182B	MY51350144	2022/4/22	2023/4/21
Agilent	MXG Vector Signal Generator	N5182B	MY51350144	2023/3/31	2024/3/30

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

MSCL Calculation:

Operation Bands	Frequency	Distance	Path Loss	Inside Cable Loss	Inside Antenna Gain	MSCL
	MHz	m	dB	(dB)	(dBi)	
Lower 700MHz	707	3	39.03	0.38	4.81	34.60
Upper 700MHz	781.5	3	39.90	0.39	3.90	36.39
Cellular	836.5	3	40.49	0.41	5.81	35.09
AWS-1	1732.5	3	46.82	1.10	7.35	40.57
PCS	1882.5	3	47.54	1.15	7.13	41.56

Note:
1. Path loss = 20logf + 20logd - 27.5 (dB)
f = frequency is the uplink mid-band frequency of the supported spectrum bands in MHz
d = minimum separation distance between the mobile device and booster server antenna

2. MSCL = Path loss + Indoor Cable Loss - Mobile Antenna Gain (0dBi) - Indoor Antenna Gain
The Inside Cable Loss was including in the inside Antenna Gain;
The Minimum MSCL was calculated and used according to the User Manual;

Variable Booster Gain:

Operation Bands	RSSI	P_{in}	P_{out}	Measured Value	MSCL	Limit	Margin
	dBm	dBm	dBm	dB	dB	dB	dB
Lower 700MHz	-90	-47.6	13.35	60.95	34.60	63.49	2.54
	-80	-47.6	13.31	60.91	34.60	63.49	2.58
	-62.89	-47.6	13.03	60.63	34.60	63.49	2.86
	-52	-47.6	-6.36	41.24	34.60	52.60	11.36
	-45	-47.6	-14.35	33.25	34.60	45.60	12.35
	-22.40	-47.6	-35.26	12.34	34.60	23.00	10.66
	-20	-47.6	-37.81	9.79	34.60	23.00	13.21
	-10	-47.6	-37.89	9.71	34.60	23.00	13.29
Upper 700MHz	-90	-43.2	15.96	59.16	36.39	64.36	5.20
	-80	-43.2	15.92	59.12	36.39	64.36	5.24
	-61.97	-43.2	16.07	59.27	36.39	64.36	5.09
	-60	-43.2	7.63	50.83	36.39	62.39	11.56
	-49	-43.2	-13.31	29.89	36.39	51.39	21.50
	-20.61	-43.2	-31.96	11.24	36.39	23.00	11.76
	-20.00	-43.2	-32.14	11.06	36.39	23.00	11.94
	-10	-43.2	-32.33	10.87	36.39	23.00	12.13
Cellular	-90	-42.9	16.32	59.22	35.09	64.95	5.73
	-80	-42.9	16.45	59.35	35.09	64.95	5.60
	-63.86	-42.9	16.27	59.17	35.09	64.95	5.78
	-59	-42.9	4.66	47.56	35.09	60.09	12.53
	-47	-42.9	-16.25	26.65	35.09	48.09	21.44
	-21.91	-42.9	-32.33	10.57	35.09	23.00	12.43
	-20.00	-42.9	-32.42	10.48	35.09	23.00	12.52
	-10	-42.9	-32.25	10.65	35.09	23.00	12.35
AWS-1	-90	-43.5	14.25	57.75	40.57	71.27	13.52
	-80	-43.5	14.31	57.81	40.57	71.27	13.46
	-64.70	-43.5	14.29	57.79	40.57	71.27	13.48
	-52	-43.5	-1.36	42.14	40.57	58.57	16.43
	-48	-43.5	-6.29	37.21	40.57	54.57	17.36
	-16.43	-43.5	-33.36	10.14	40.57	23.00	12.86
	-10	-43.5	-33.25	10.25	40.57	23.00	12.75
PCS	-90	-39.8	15.26	55.06	41.56	71.99	16.93
	-80	-39.8	15.45	55.25	41.56	71.99	16.74
	-64.43	-39.8	15.33	55.13	41.56	71.99	16.86
	-53.00	-39.8	1.45	41.25	41.56	60.56	19.31
	-49	-39.8	-4.01	35.79	41.56	56.56	20.77
	-15.44	-39.8	-28.52	11.28	41.56	23.00	11.72
	-10	-39.8	-28.37	11.43	41.56	23.00	11.57

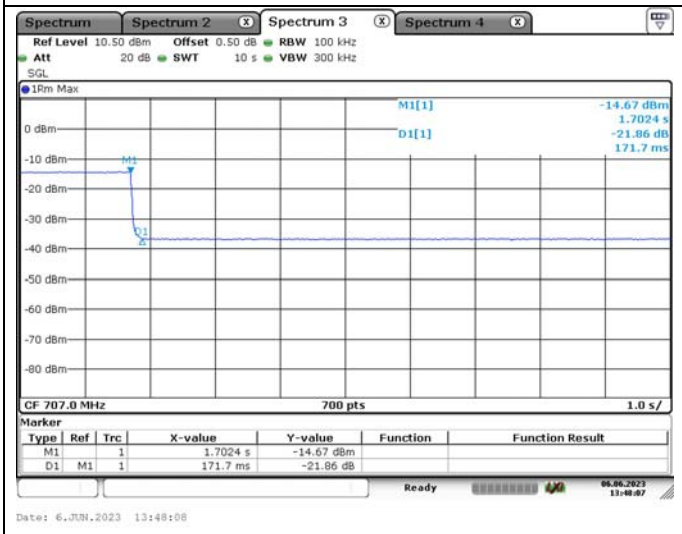
Note: According to KDB 935210 D03 Signal Booster Measurements v04r04 Annex D
1. For Mobile Booster, Variable booster gain Limit: -34 dB - RSSI + MSCL in RSSI-Dependent Region, out of RSSI-Dependent Region, it is 50 dB when MSCL = 20dB.
2. For Fixed Booster, Variable booster gain Limit: -34 dB - RSSI + MSCL.

Variable Gain Timing:

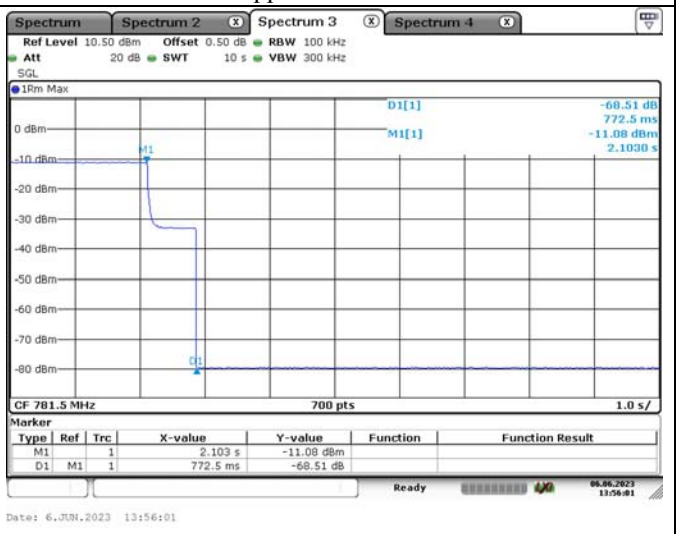
Operation Band	Measured Value (s)	Limit (s)
Lower 700MHz	0.1717	3
Upper 700MHz	0.7725	3
Cellular	0.2289	3
AWS-1	0.6009	3
PCS	0.1717	3

Note: The uplink noise decreases to the specified level within 3 seconds for fixed devices.

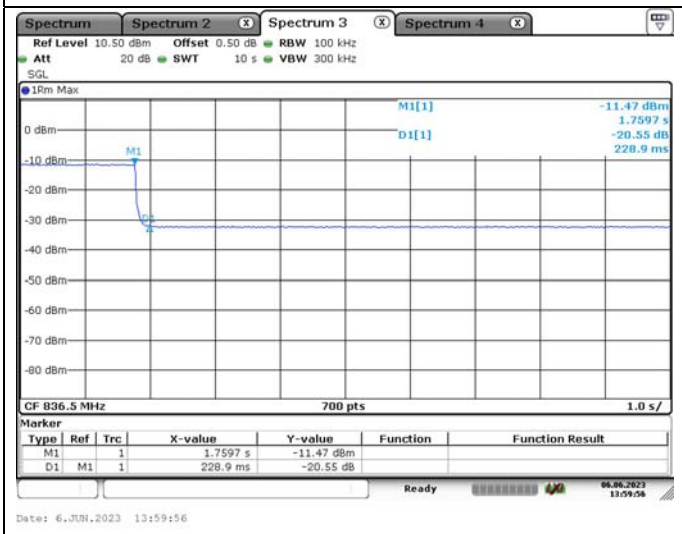
Lower 700M Band



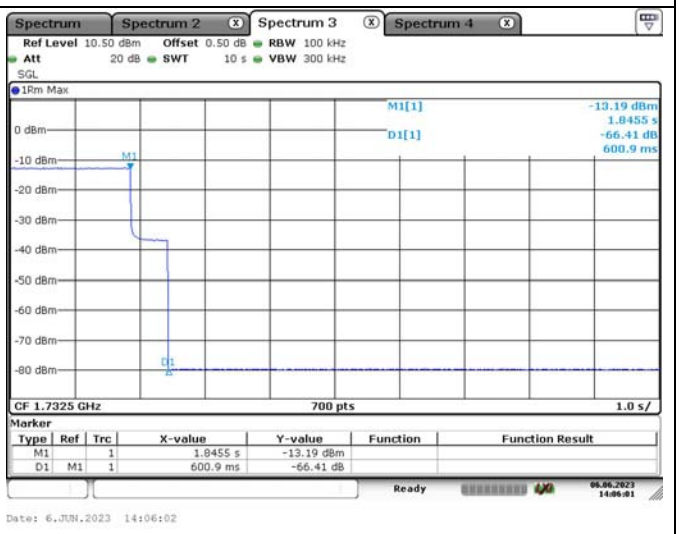
Upper 700M Band



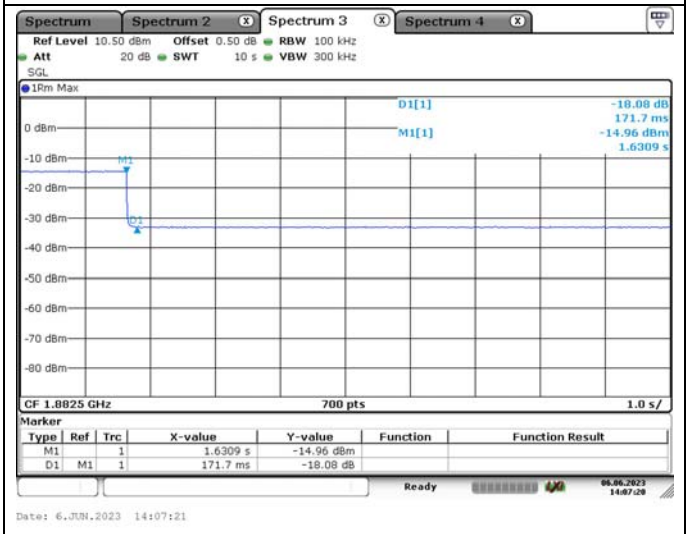
Cellular Band



AWS-1 Band



PCS Band



4.10 Occupied Bandwidth:

Serial Number:	22X8_1	Test Date:	2023/6/4
Test Site:	RF	Test Mode:	Transmitting
Tester:	Sern Shen	Test Result:	Pass

Environmental Conditions:

Temperature: (℃)	21.3~28.3	Relative Humidity: (%)	38~45	ATM Pressure: (kPa)	100.2~101.9

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2022/7/15	2023/7/14
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100002	Each time	N/A
Agilent	MXG Vector Signal Generator	N5182B	MY51350144	2023/3/31	2024/3/30

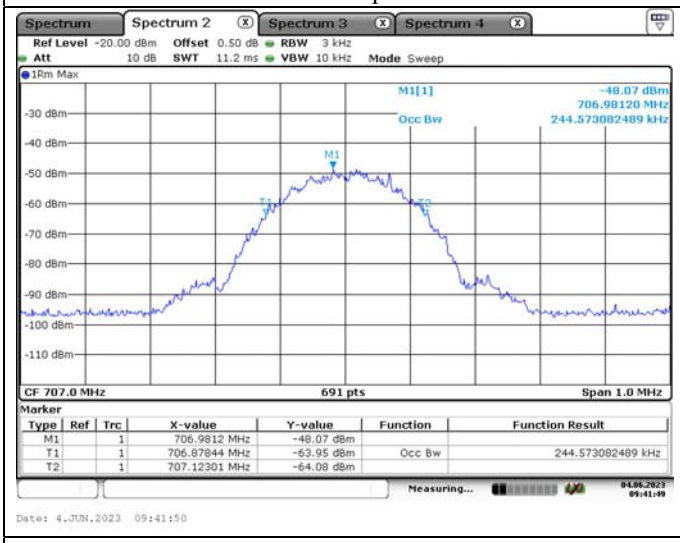
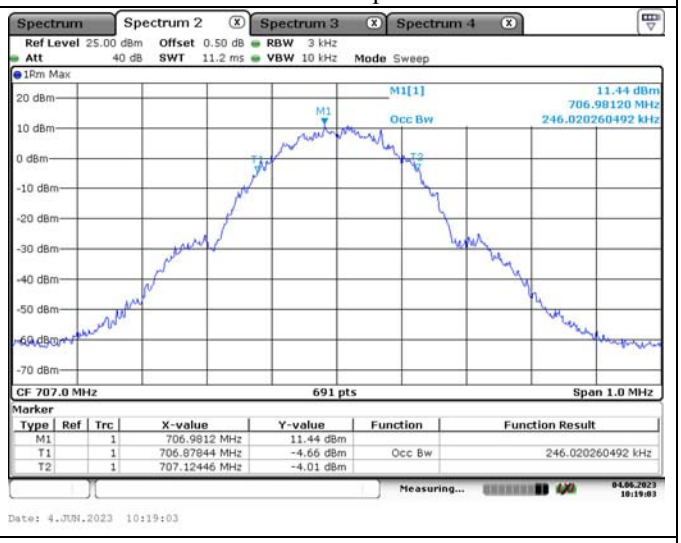
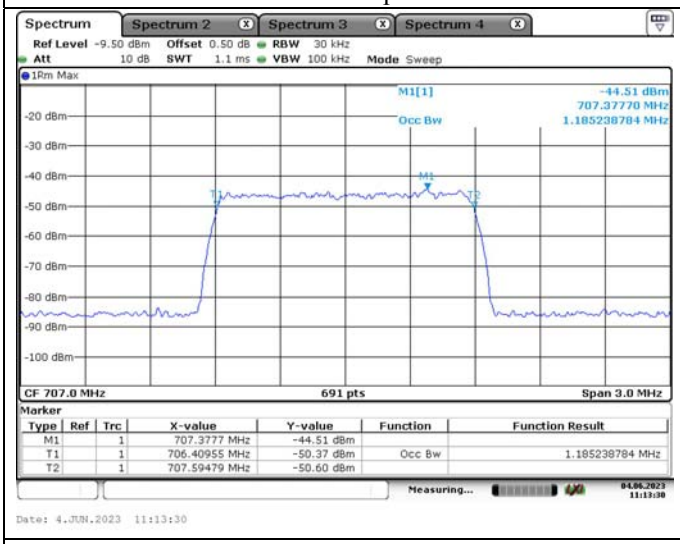
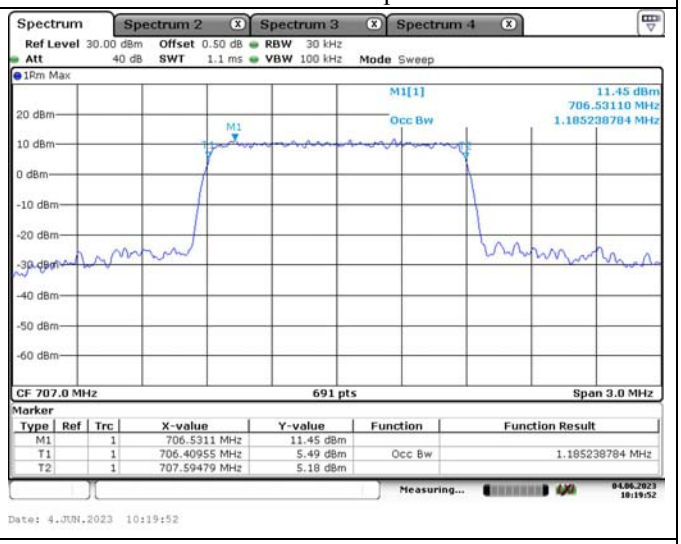
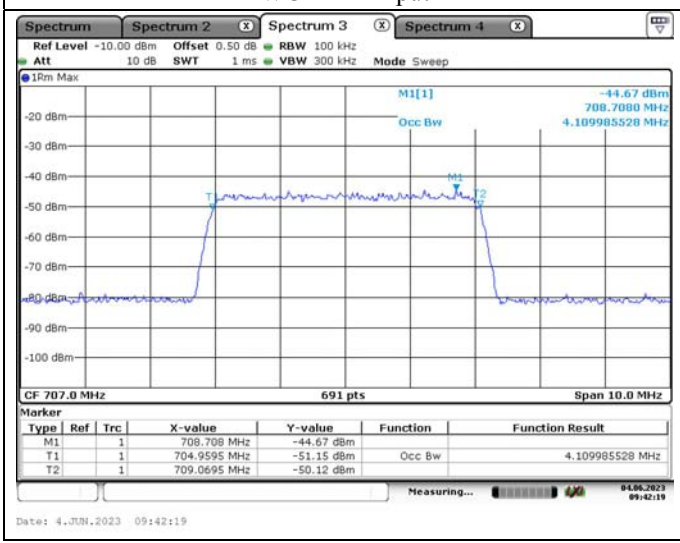
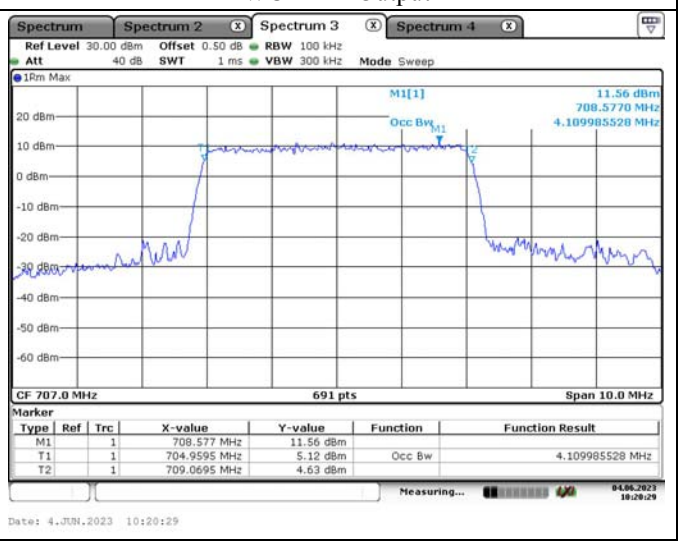
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

Mode	Operation Band	Signal Type	Input	Output
			MHz	MHz
Uplink	Lower 700MHz	GSM	0.245	0.246
		CDMA	1.185	1.185
		WCDMA	4.110	4.110
	Upper 700MHz	GSM	0.247	0.246
		CDMA	1.190	1.194
		WCDMA	4.110	4.110
	Cellular	GSM	0.247	0.246
		CDMA	1.194	1.194
		WCDMA	4.110	4.124
	AWS-1	GSM	0.246	0.246
		CDMA	1.185	1.194
		WCDMA	4.139	4.110
	PCS	GSM	0.246	0.246
		CDMA	1.190	1.190
		WCDMA	4.124	4.110
Downlink	Lower 700MHz	GSM	0.250	0.246
		CDMA	1.194	1.190
		WCDMA	4.226	4.124
	Upper 700MHz	GSM	0.252	0.246
		CDMA	1.198	1.190
		WCDMA	4.240	4.067
	Cellular	GSM	0.252	0.246
		CDMA	1.203	1.185
		WCDMA	4.240	4.096
	AWS-1	GSM	0.253	0.246
		CDMA	1.194	1.190
		WCDMA	4.240	4.110
	PCS	GSM	0.252	0.246
		CDMA	1.194	1.185
		WCDMA	4.226	4.110

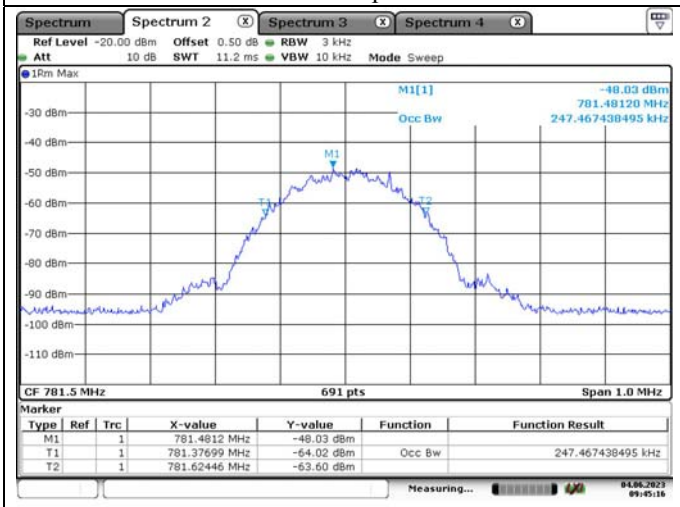
Uplink:

Lower 700M Band

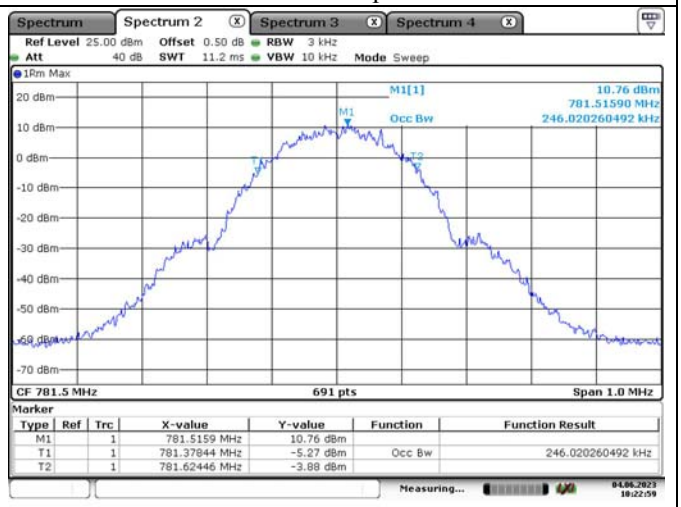
GSM-Input	GSM-Output
	
CDMA-Input	CDMA-Output
	
WCDMA-Input	WCDMA-Output
	

Upper 700M Band

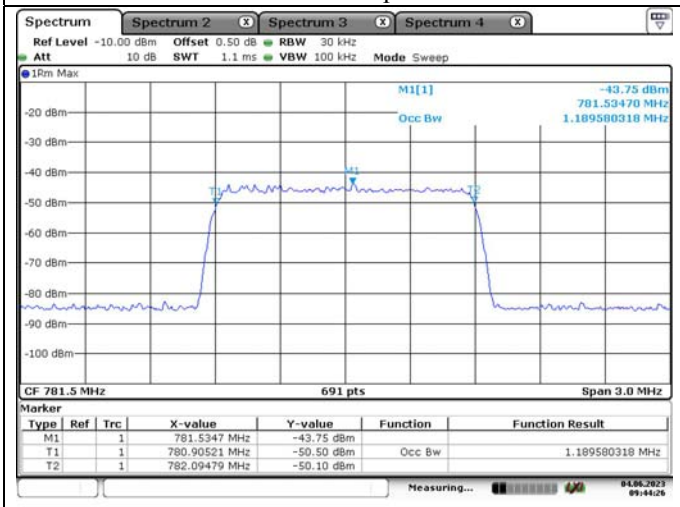
GSM-Input



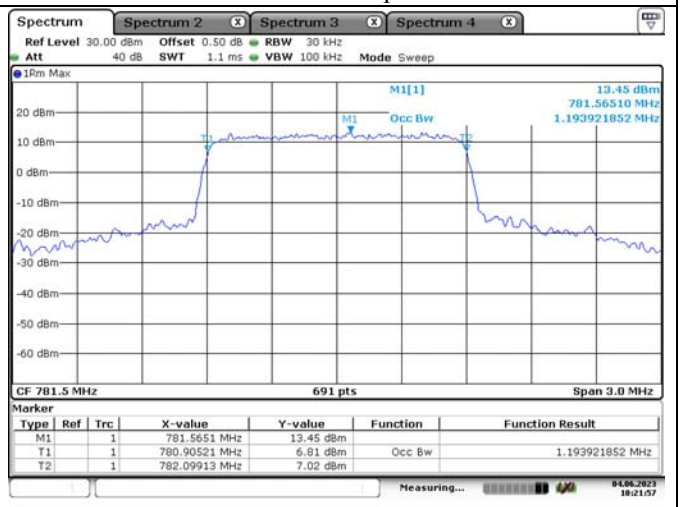
GSM-Output



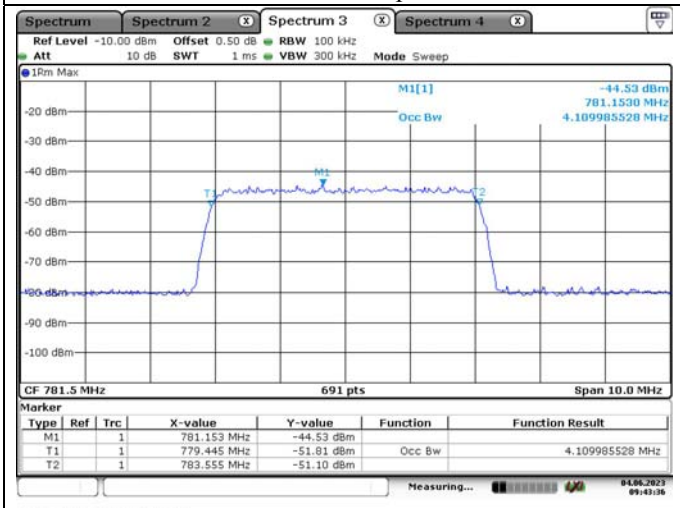
CDMA-Input



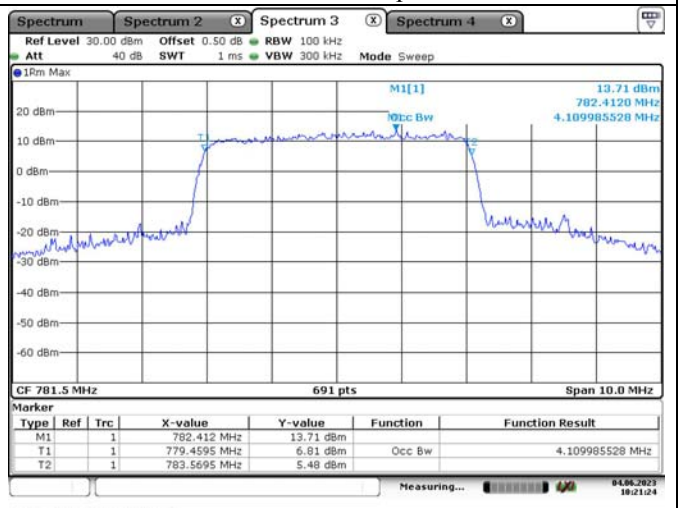
CDMA-Output



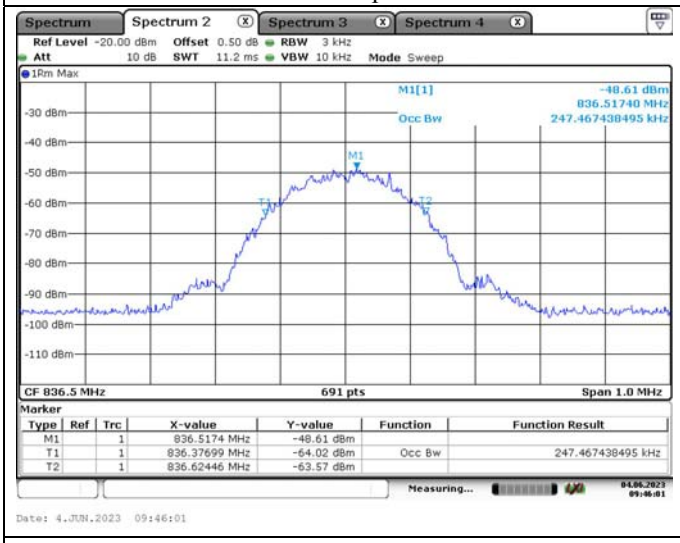
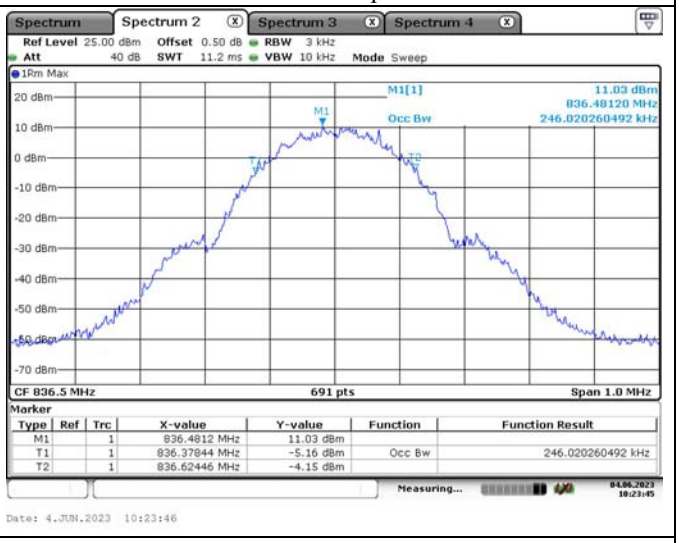
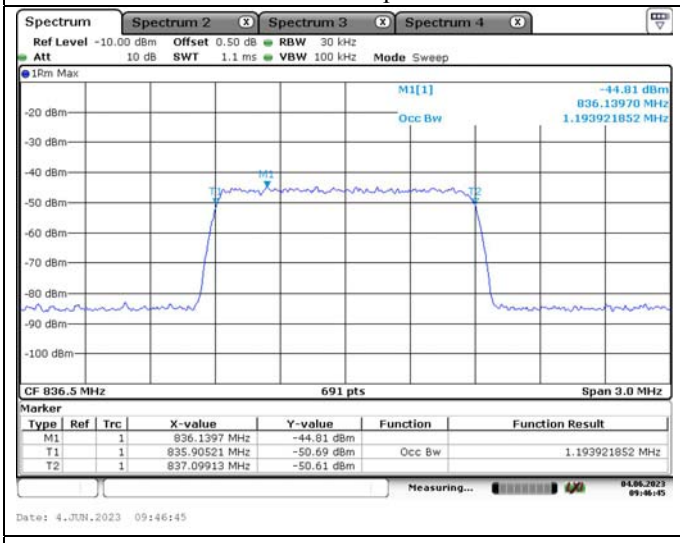
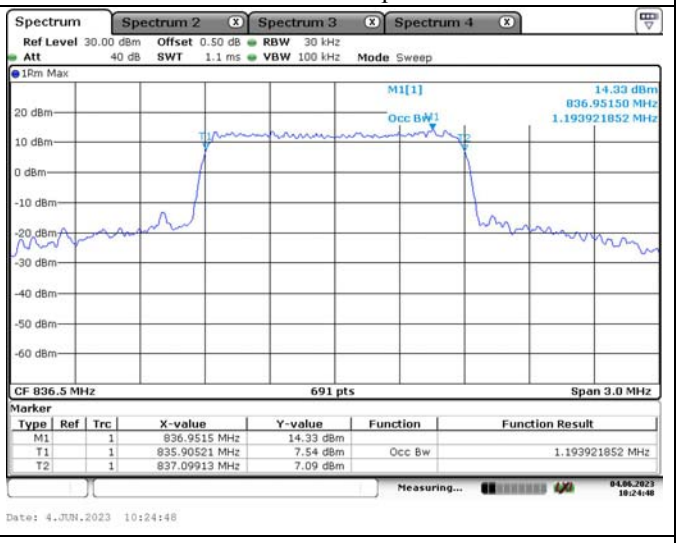
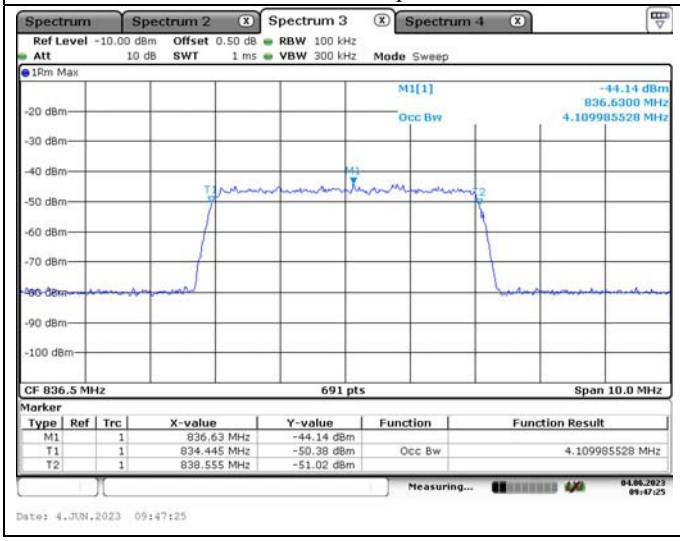
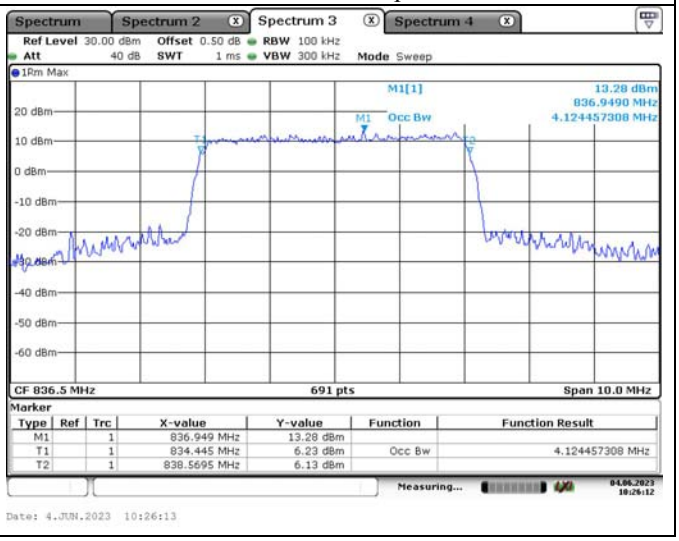
WCDMA-Input



WCDMA-Output

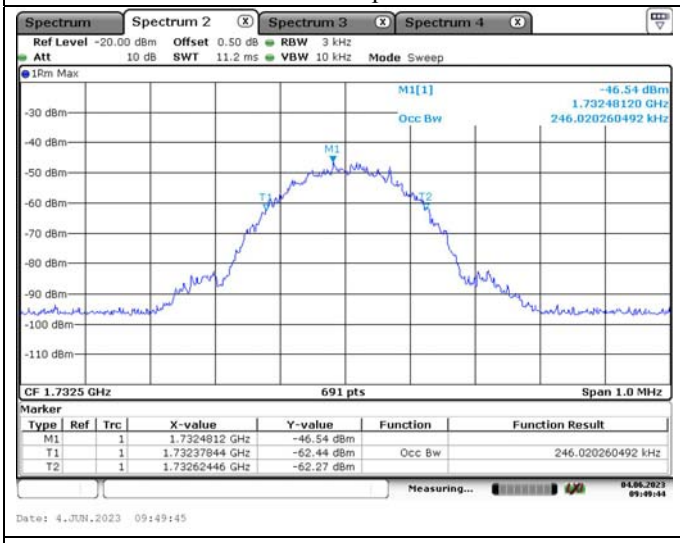


Cellular Band

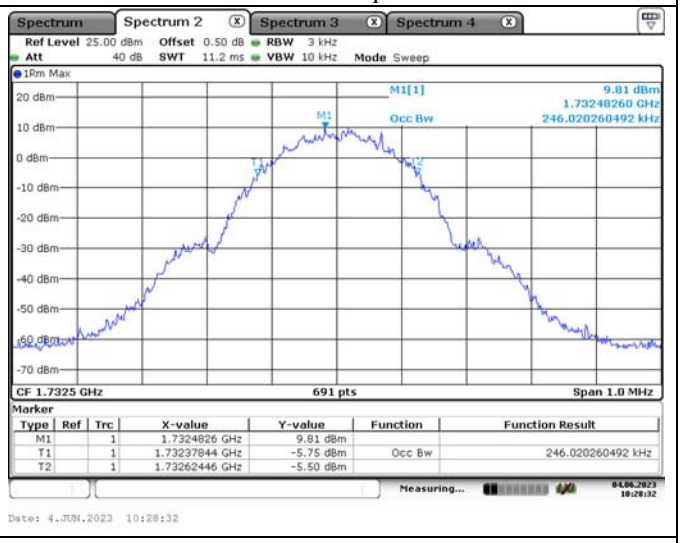
GSM-Input	GSM-Output
	
CDMA-Input	CDMA-Output
	
WCDMA-Input	WCDMA-Output
	

AWS-1 Band

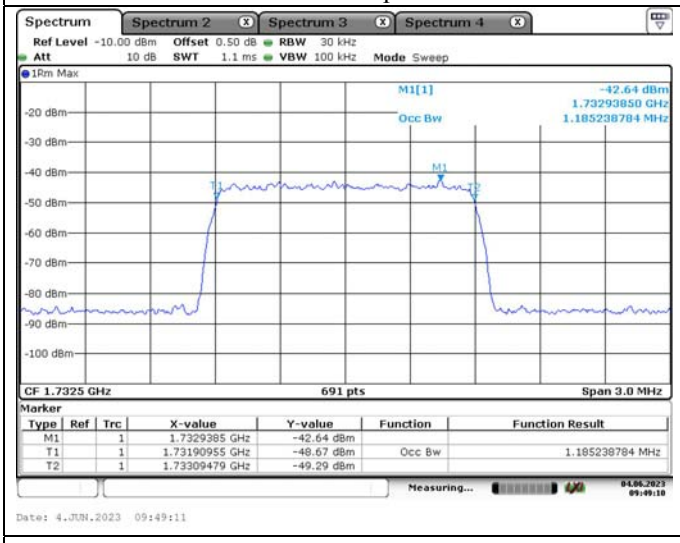
GSM-Input



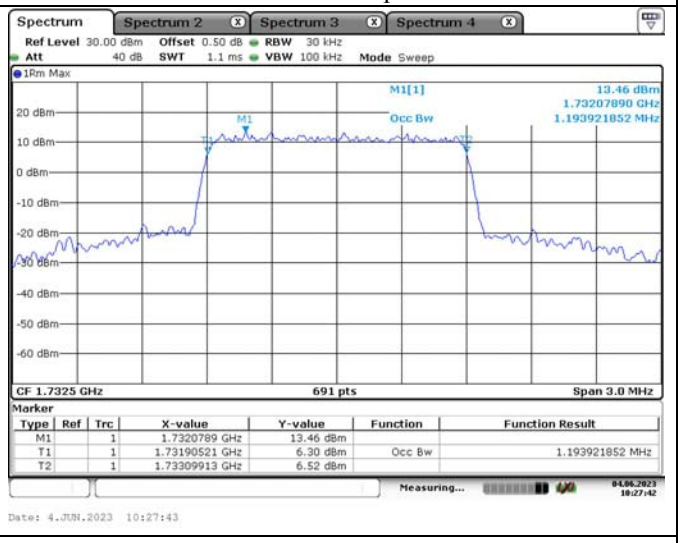
GSM-Output



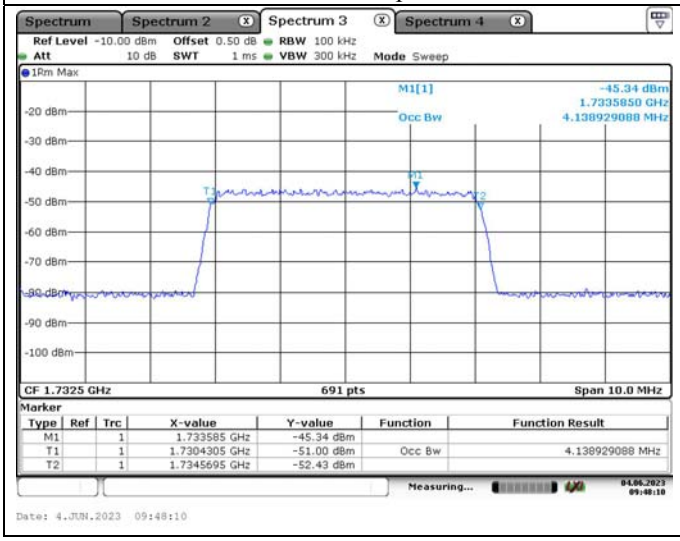
CDMA-Input



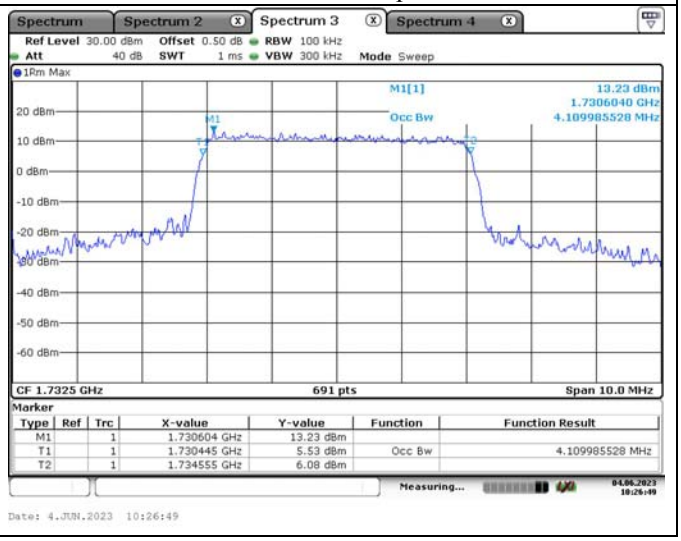
CDMA-Output



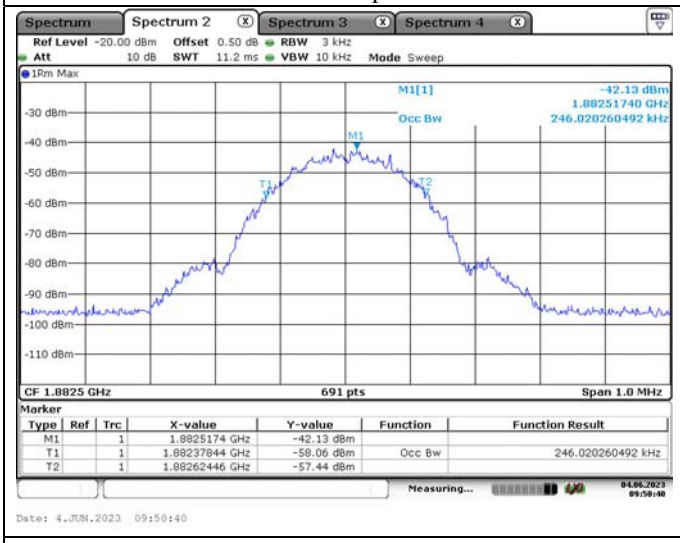
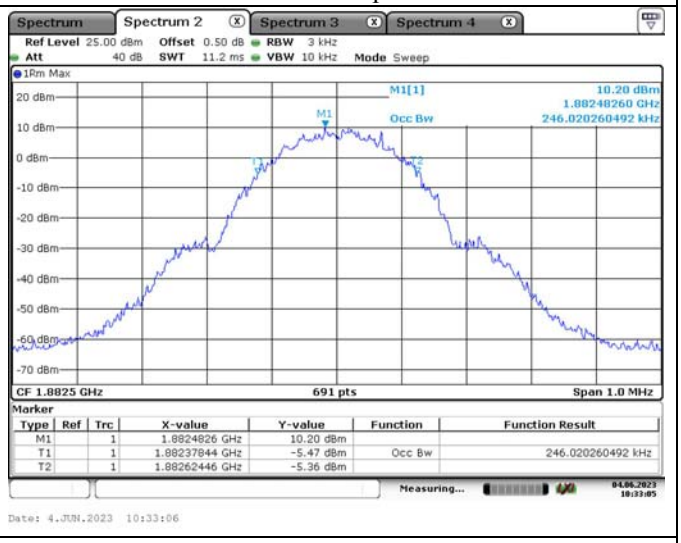
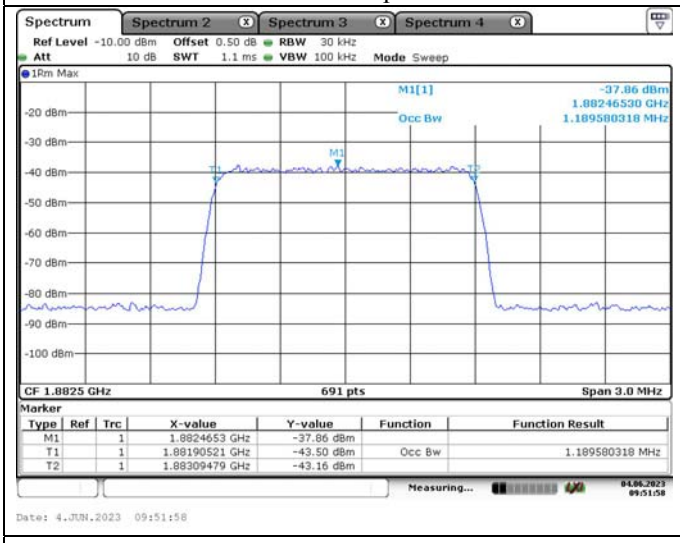
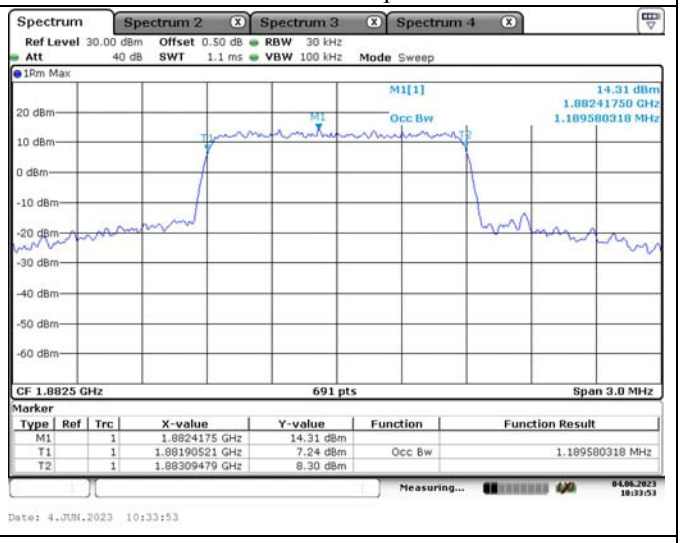
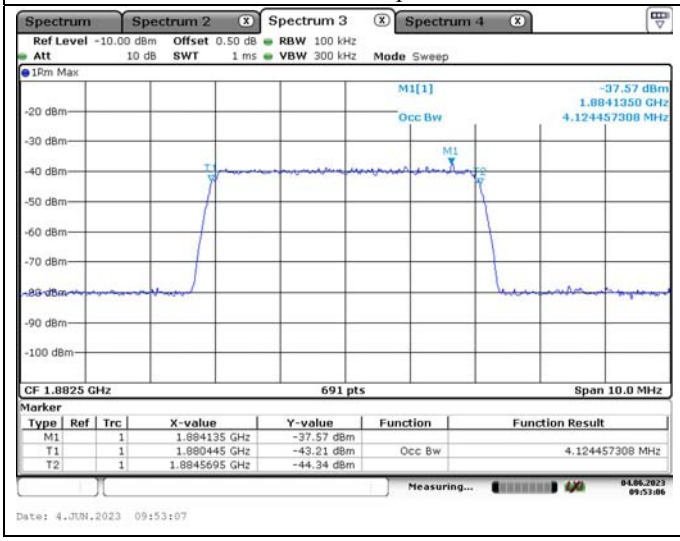
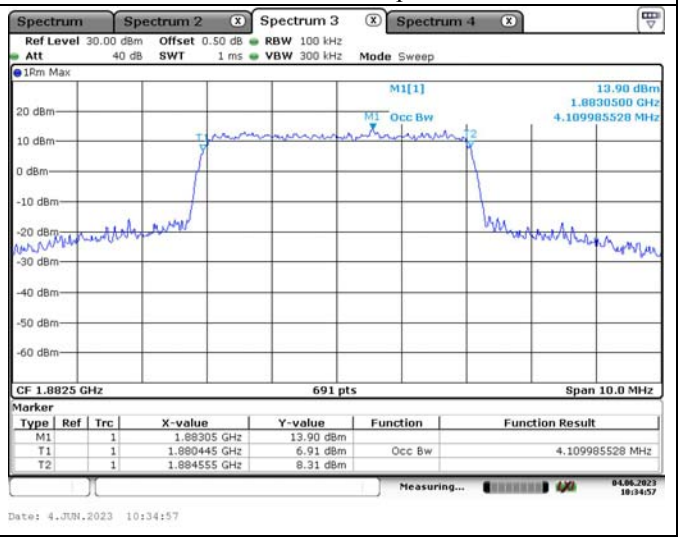
WCDMA-Input



WCDMA-Output

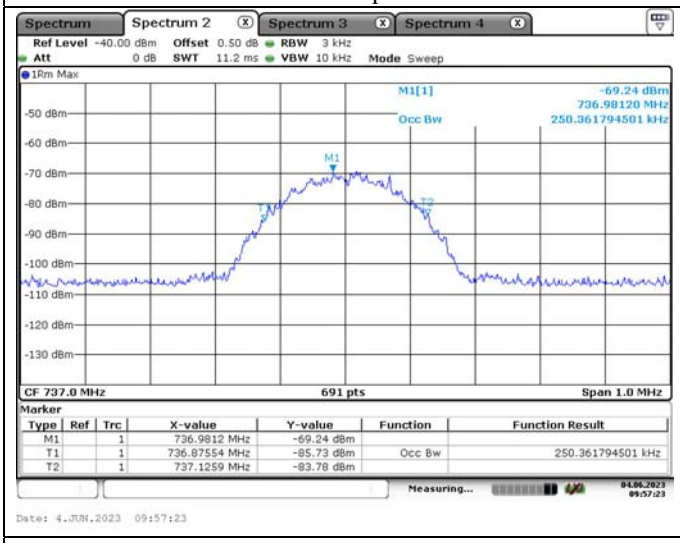
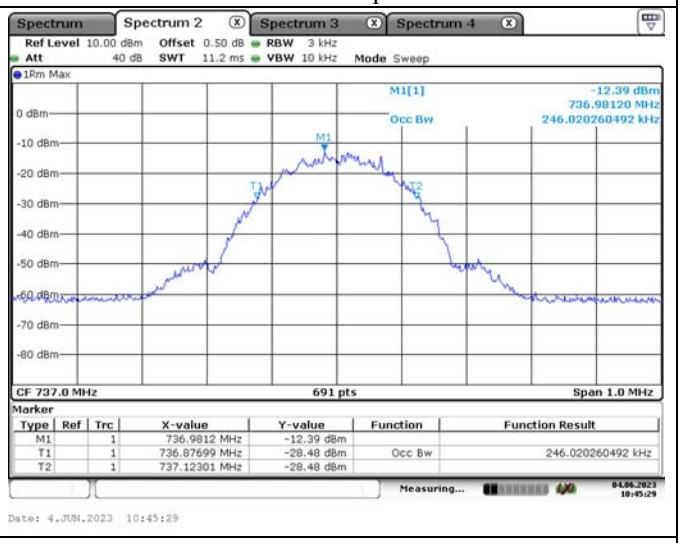
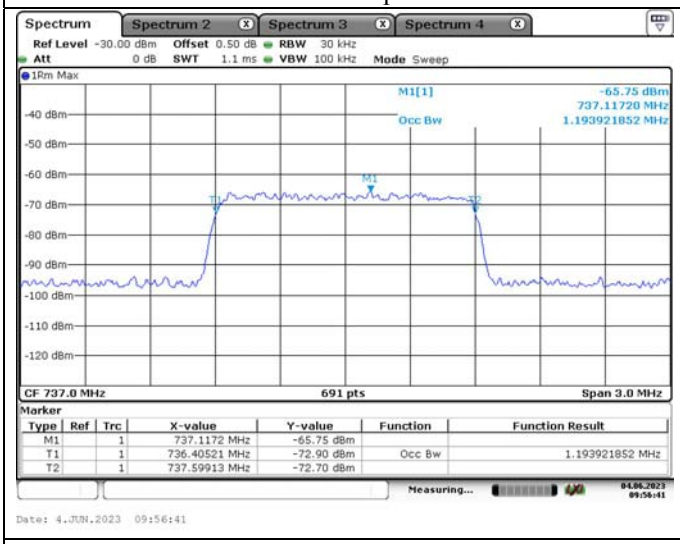
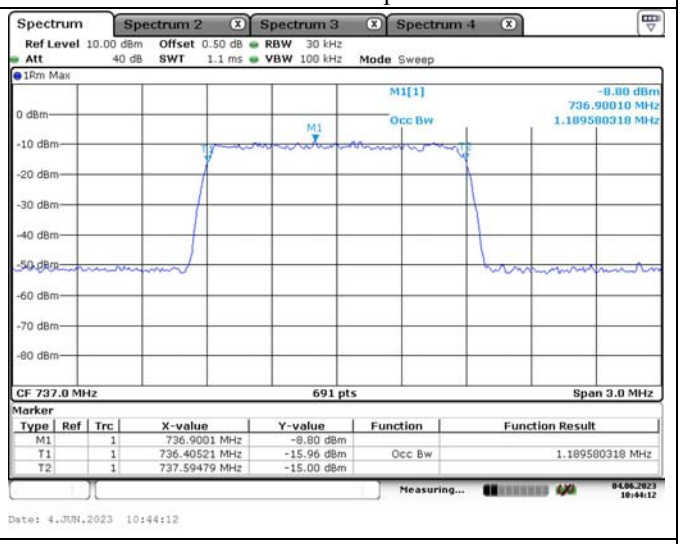
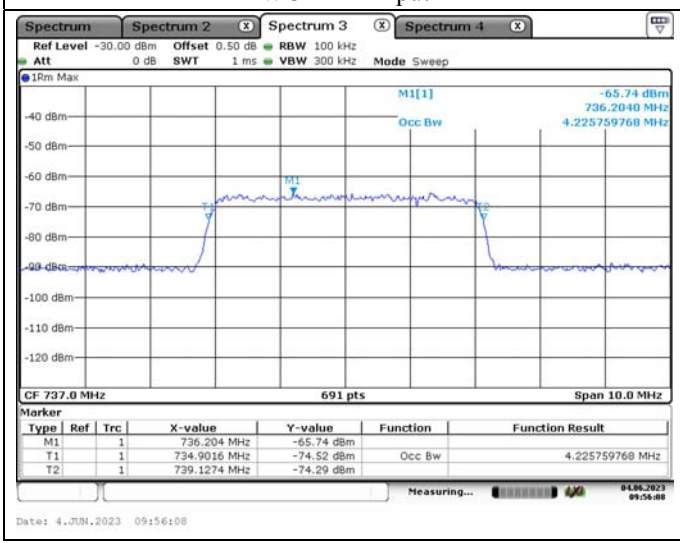
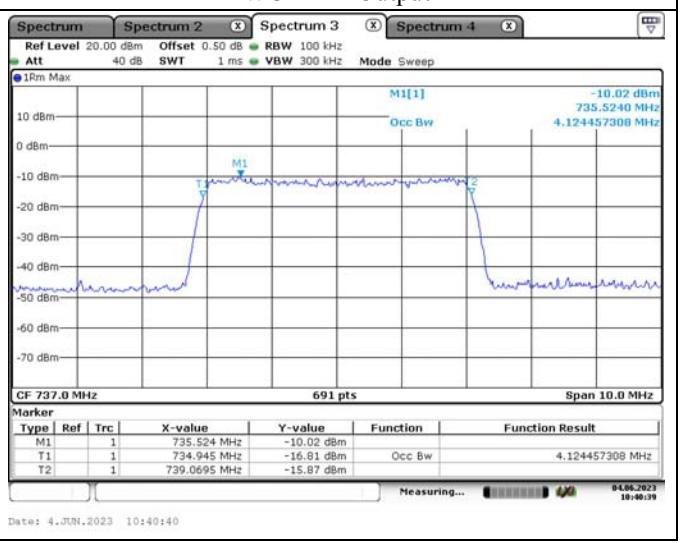


PCS Band

GSM-Input	GSM-Output
	
CDMA-Input	CDMA-Output
	
WCDMA-Input	WCDMA-Output
	

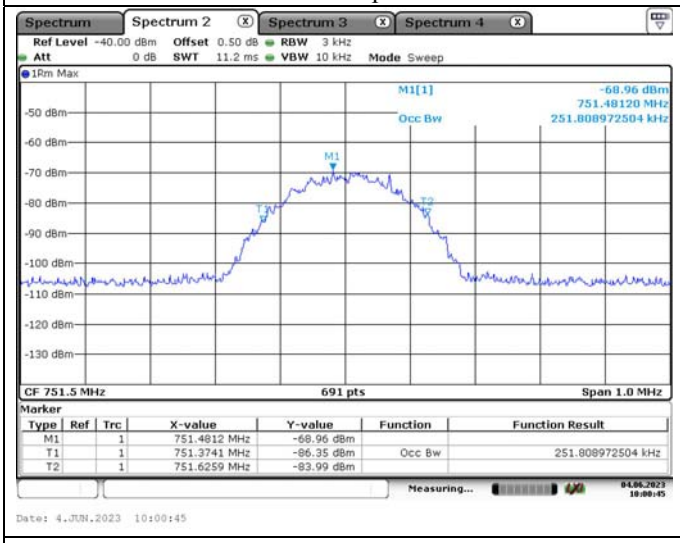
Downlink:

Lower 700M Band

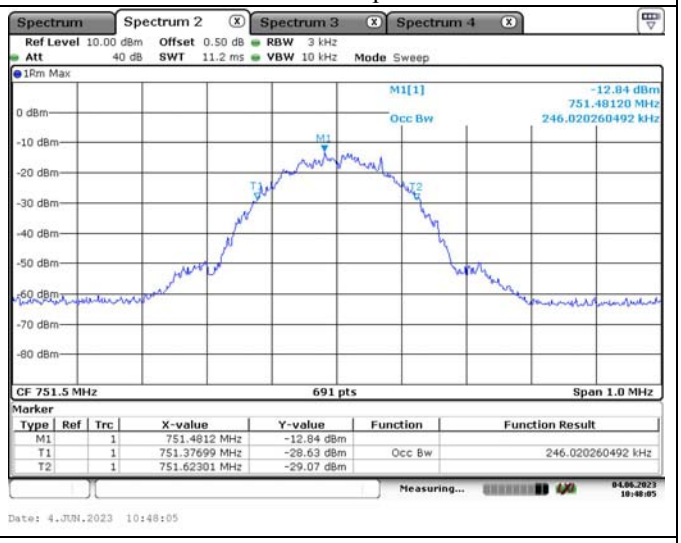
GSM-Input	GSM-Output
	
CDMA-Input	CDMA-Output
	
WCDMA-Input	WCDMA-Output
	

Upper 700M Band

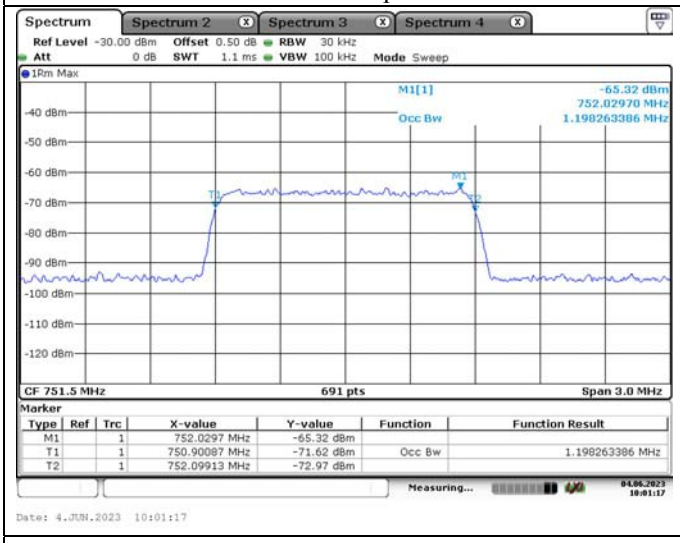
GSM-Input



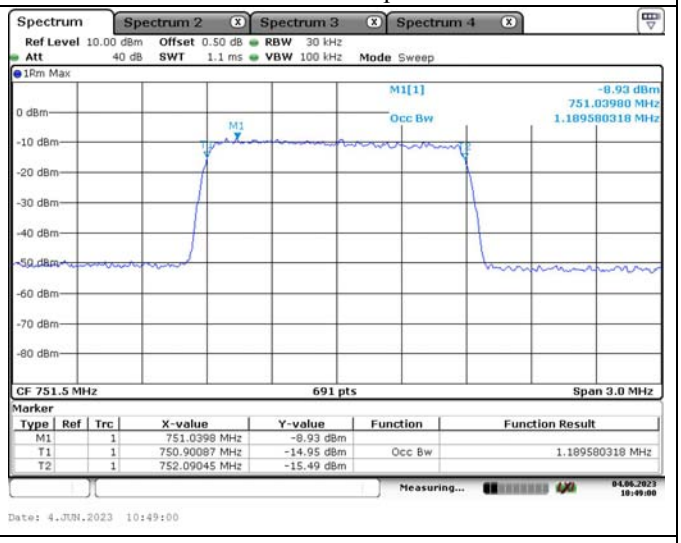
GSM-Output



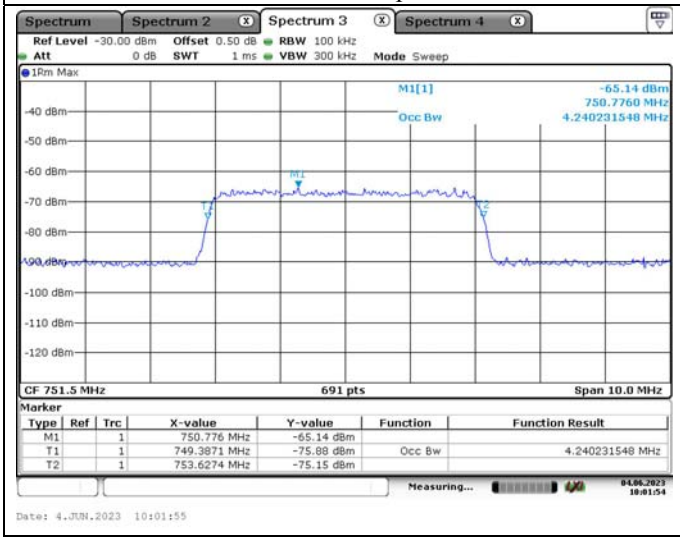
CDMA-Input



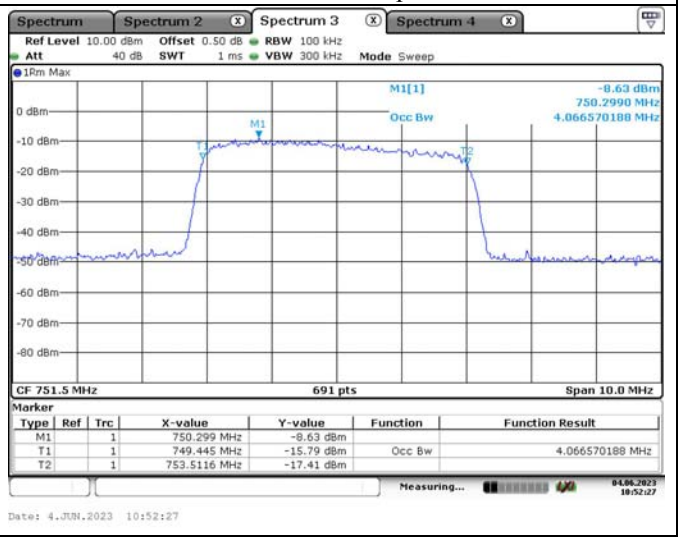
CDMA-Output



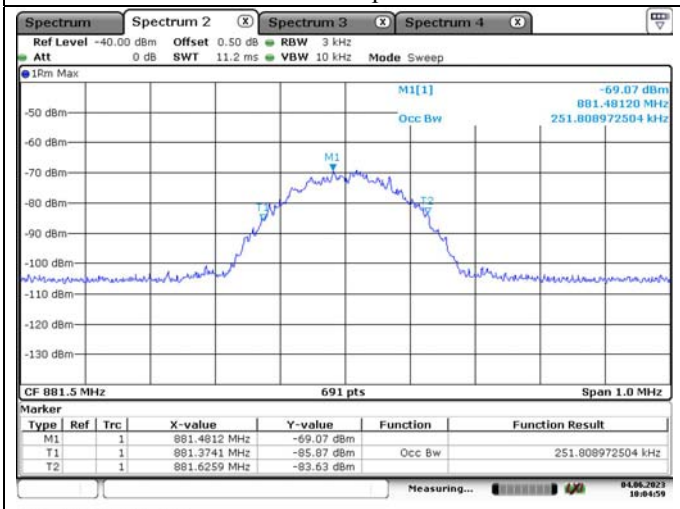
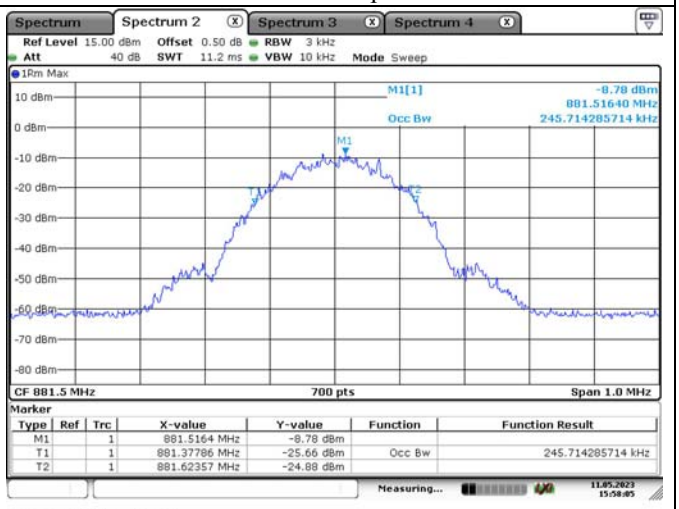
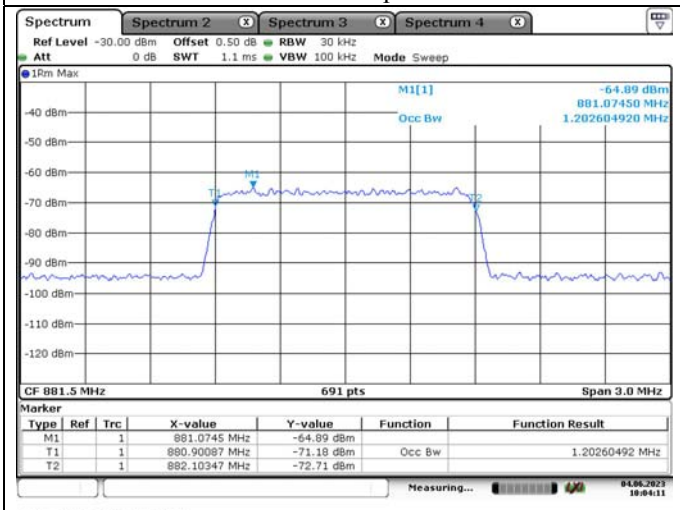
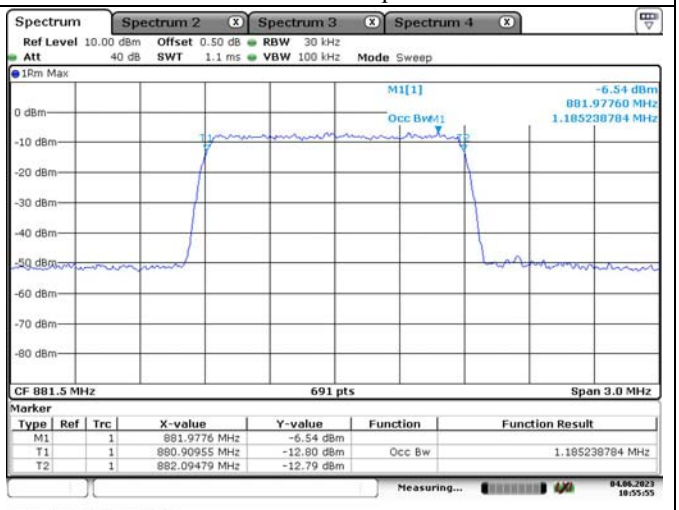
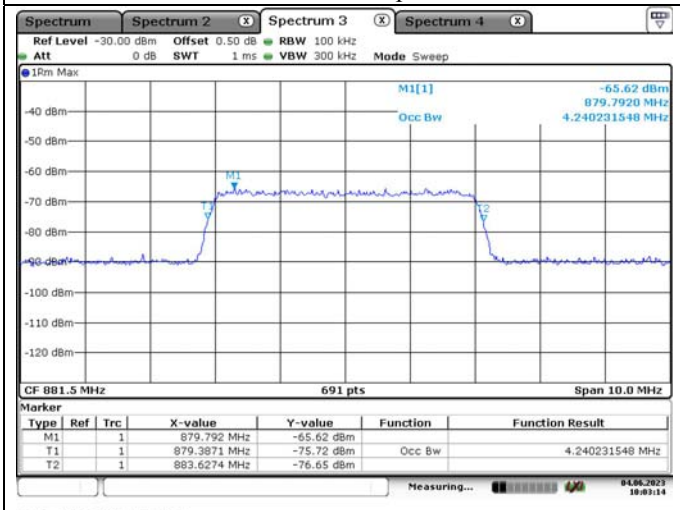
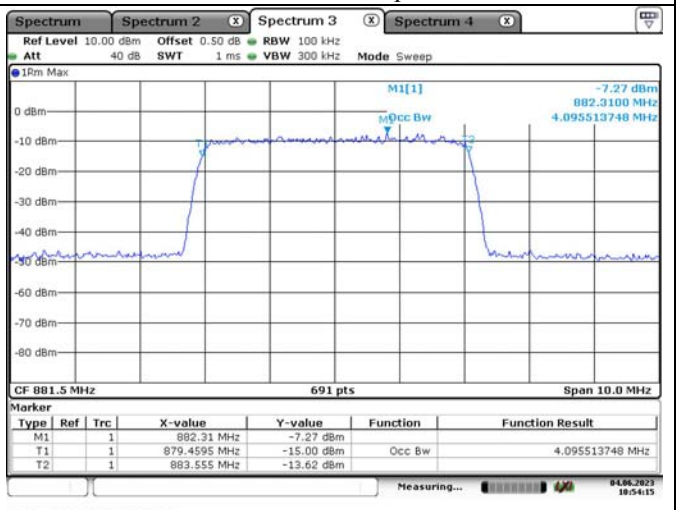
WCDMA-Input



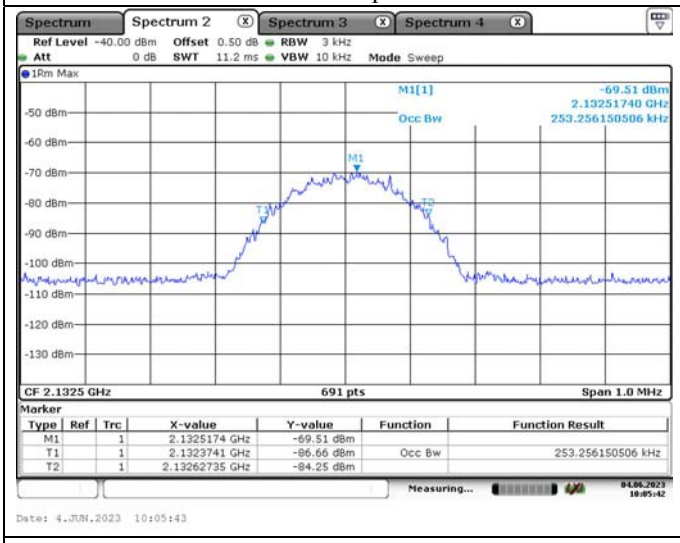
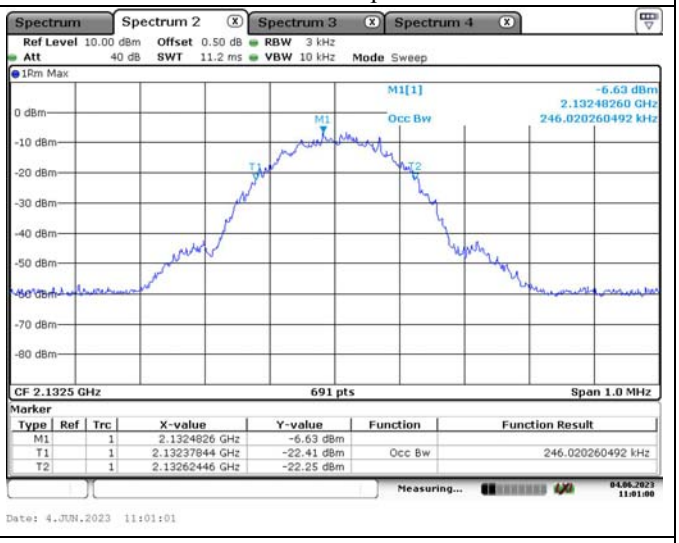
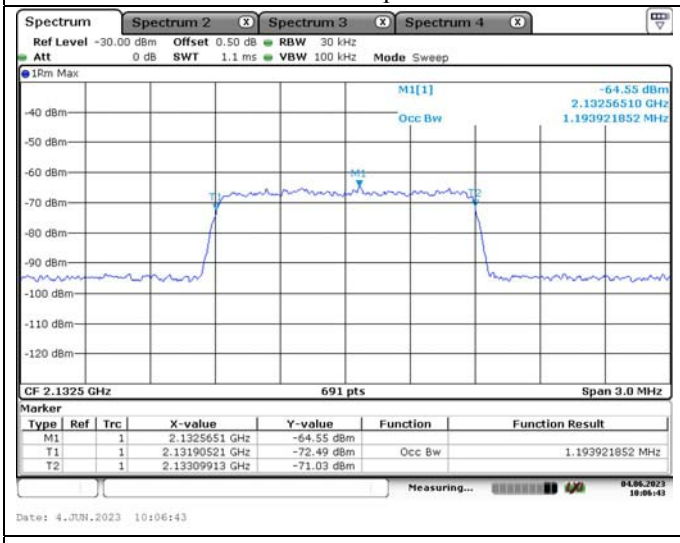
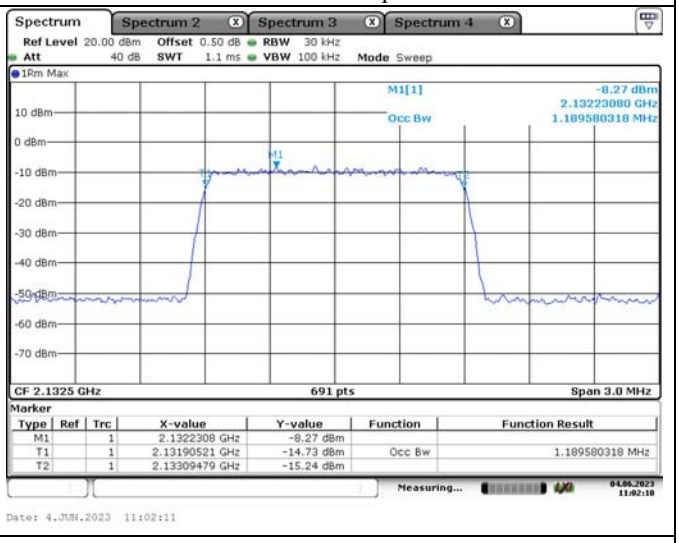
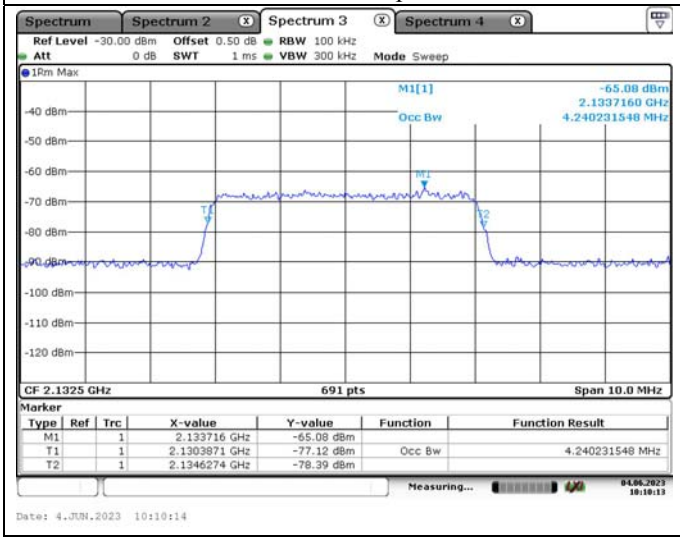
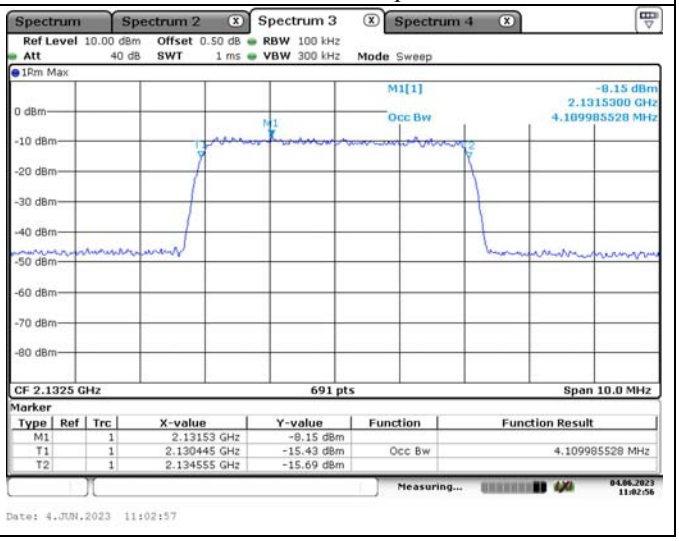
WCDMA-Output



Cellular Band

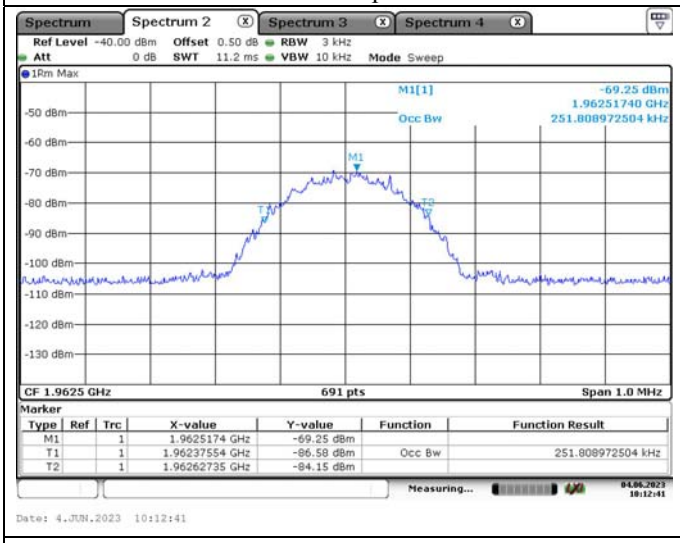
GSM-Input	GSM-Output
	
CDMA-Input	CDMA-Output
	
WCDMA-Input	WCDMA-Output
	

AWS-1 Band

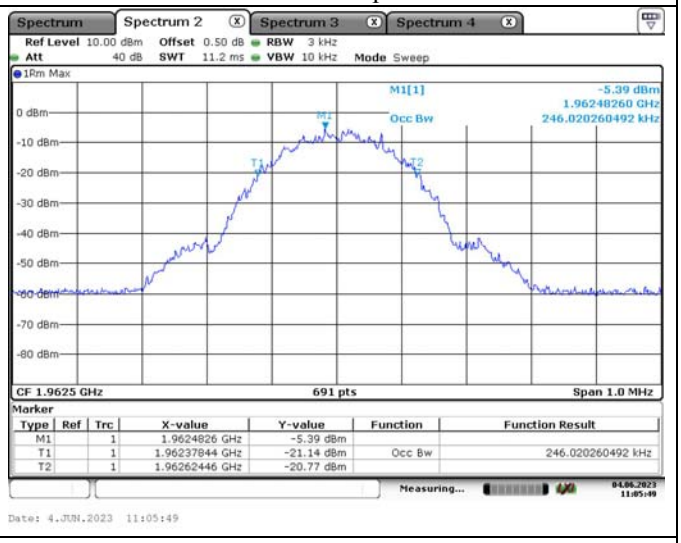
GSM-Input	GSM-Output
	
CDMA-Input	CDMA-Output
	
WCDMA-Input	WCDMA-Output
	

PCS Band

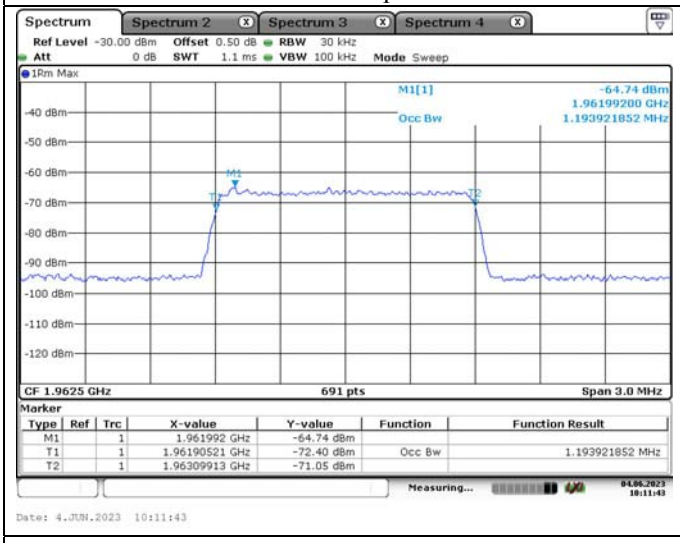
GSM-Input



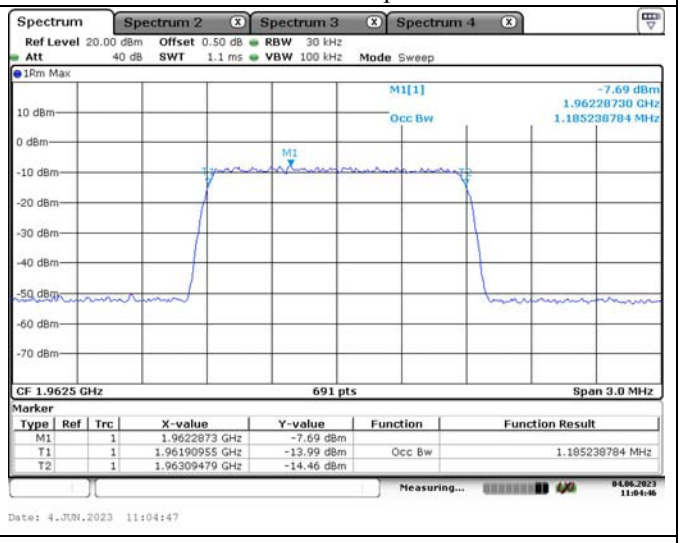
GSM-Output



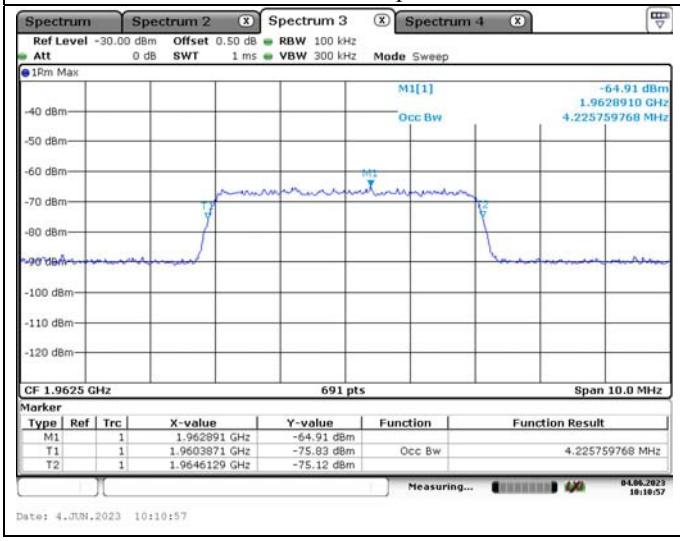
CDMA-Input



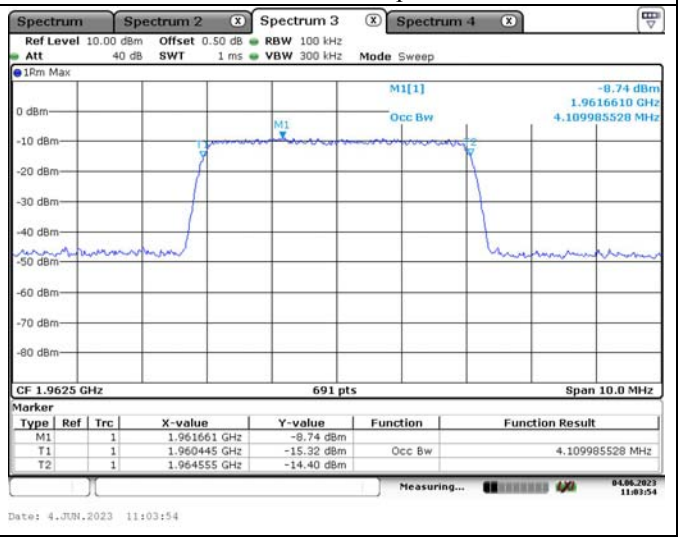
CDMA-Output



WCDMA-Input



WCDMA-Output



4.11 Oscillation Detection:

Serial Number:	22X8_1	Test Date:	2023/11/4~2023/12/26, 2024/1/14
Test Site:	RF	Test Mode:	Transmitting
Tester:	Sern Shen,Morpheus Shi	Test Result:	Pass

Environmental Conditions:

Temperature: (℃)	21.3~28.3	Relative Humidity: (%)	38~45	ATM Pressure: (kPa)	100.2~101.9

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2023/3/31	2024/3/30
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100002	Each time	N/A
Agilent	MXG Vector Signal Generator	N5182B	MY51350144	2023/3/31	2024/3/30

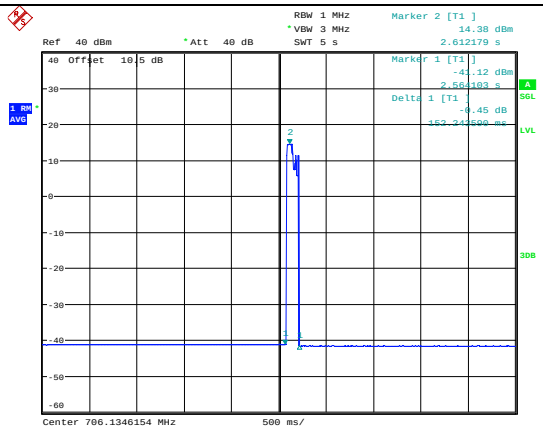
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

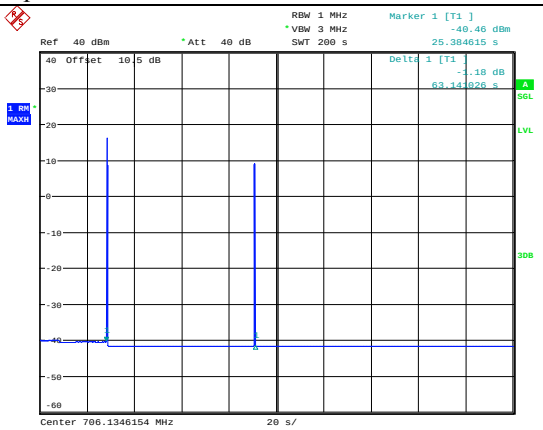
Oscillation Restart Time:

Mode	Operation Bands	Detection Time (s)		Power level	Between restart time (s)		Number of restart	
		Reading	Limit	dBm	Reading	Limit	Reading	Limit
Uplink	Lower 700MHz	0.152	<0.3	14.38	63.14	≥60	2	≤5
	Upper 700MHz	0.123		-11.59	63.78		2	
	Cellular	0.212		14.75	62.88		2	
	AWS-1	0.136		18.38	63.53		2	
	PCS	0.104		21.34	62.50		2	
Downlink	Lower 700MHz	0.153	<1	6.02	63.14		2	
	Upper 700MHz	0.431		4.15	63.78		2	
	Cellular	0.364		-5.63	63.14		2	
	AWS-1	0.168		10.12	63.14		2	
	PCS	0.128		-24.33	63.46		2	

Lower 700M-Uplink

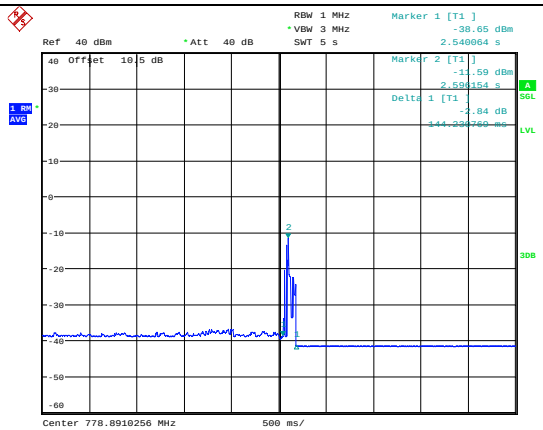


ProjectNo.:CR230310695-RF Tester:Morpheus Shi
Date: 14.JAN.2024 14:34:22

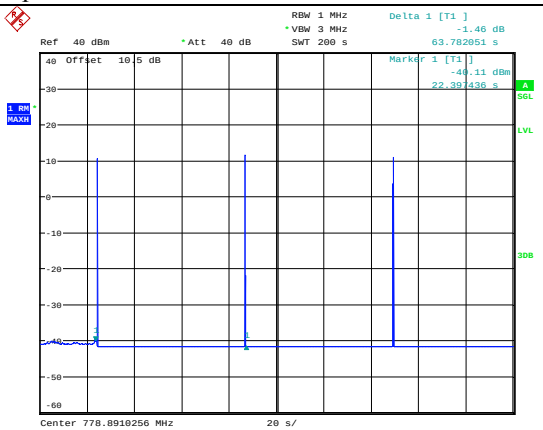


ProjectNo.:CR230310695-RF Tester:Morpheus Shi
Date: 4.NOV.2023 13:58:24

Upper 700M-Uplink

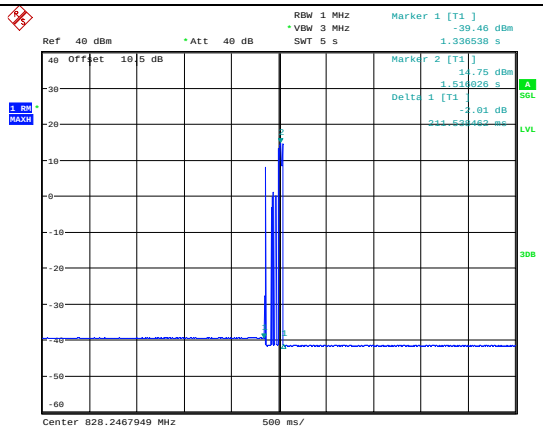


ProjectNo.:CR230310695-RF Tester:Morpheus Shi
Date: 14.JAN.2024 14:51:34

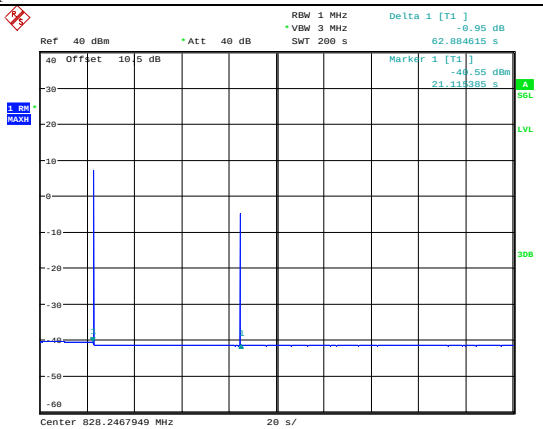


ProjectNo.:CR230310695-RF Tester:Morpheus Shi
Date: 4.NOV.2023 14:40:26

Cellular-Uplink

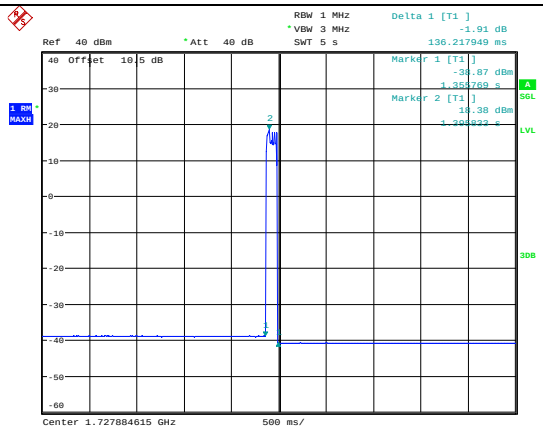


ProjectNo.:CR230310695-RF Tester:Morpheus Shi
Date: 4.NOV.2023 15:53:30

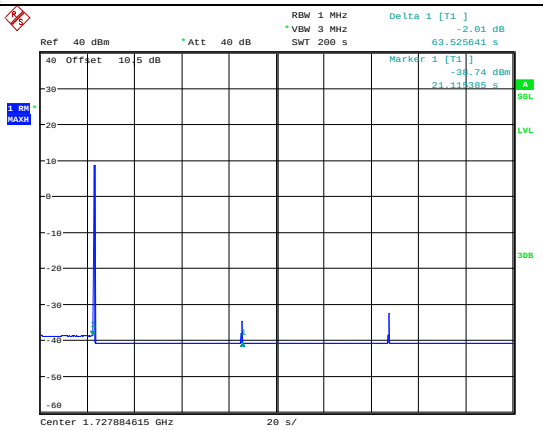


ProjectNo.:CR230310695-RF Tester:Morpheus Shi
Date: 4.NOV.2023 15:04:15

AWS-1-Uplink

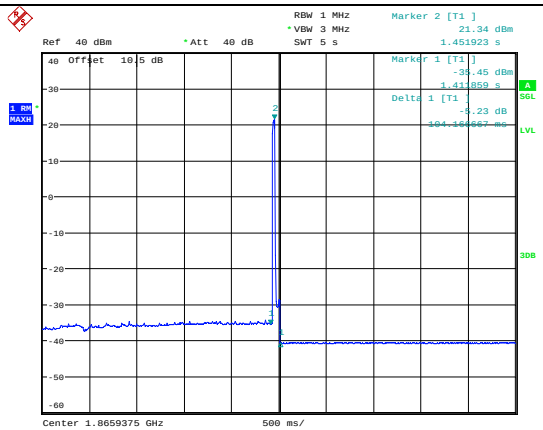


ProjectNo.:CR230310695-RF Tester:Morpheus Shi
Date: 4.NOV.2023 15:16:52

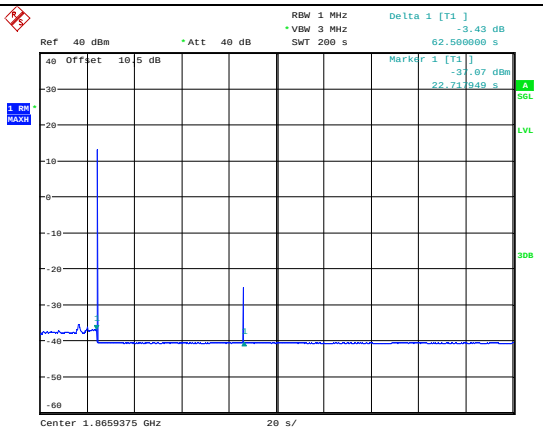


ProjectNo.:CR230310695-RF Tester:Morpheus Shi
Date: 4.NOV.2023 15:29:59

PCS-Uplink

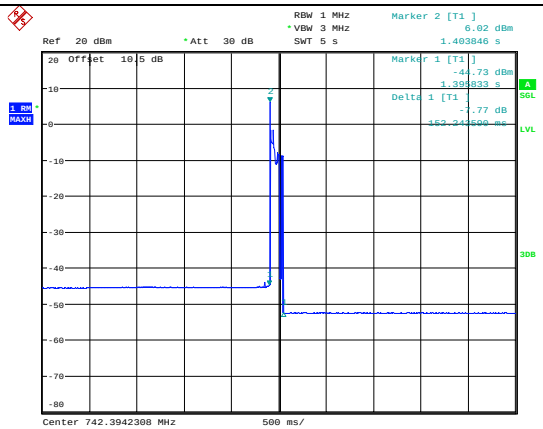


ProjectNo.:CR230310695-RF Tester:Morpheus Shi
Date: 4.NOV.2023 15:36:49

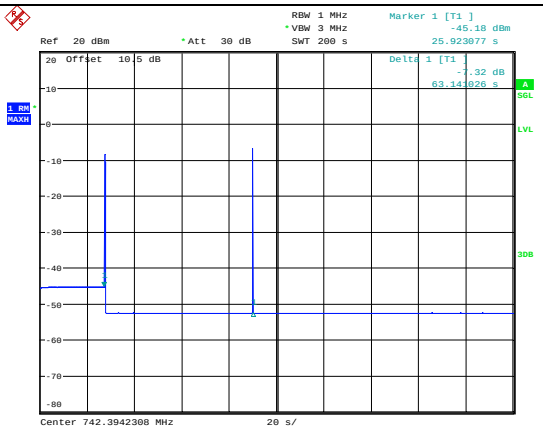


ProjectNo.:CR230310695-RF Tester:Morpheus Shi
Date: 4.NOV.2023 15:47:37

Lower 700M-Downlink

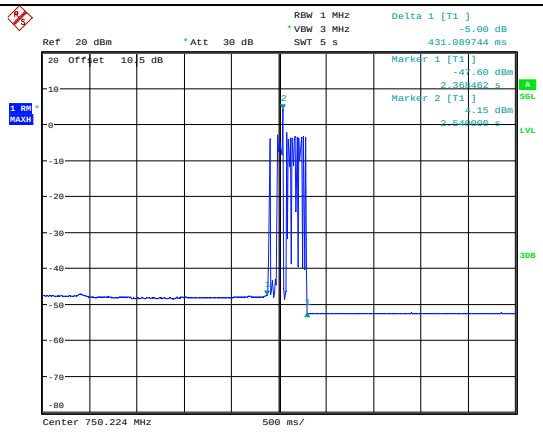


ProjectNo.:CR230310695-RF Tester:Morpheus Shi
Date: 4.NOV.2023 16:27:11

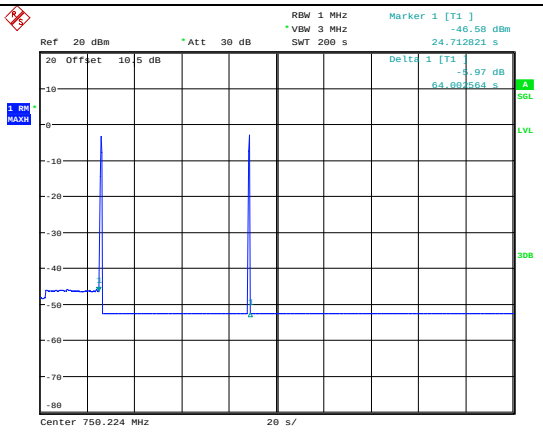


ProjectNo.:CR230310695-RF Tester:Morpheus Shi
Date: 4.NOV.2023 16:25:29

Upper 700M-Downlink

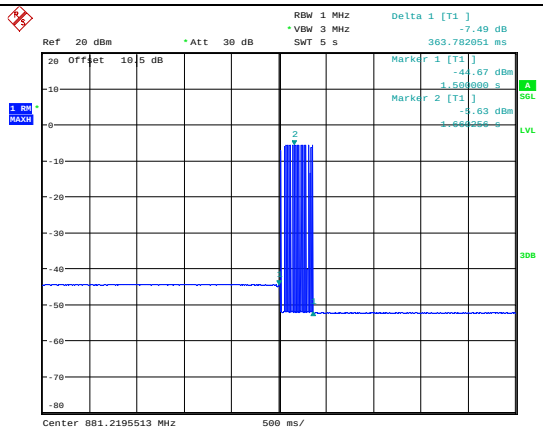


ProjectNo.:CR230310695-RF Tester:Morpheus Shi
Date: 26.DEC.2023 11:33:57



ProjectNo.:CR230310695-RF Tester:Morpheus Shi
Date: 26.DEC.2023 11:51:36

Cellular-Downlink



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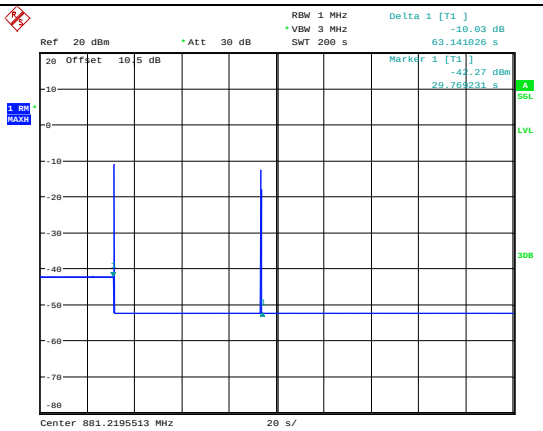
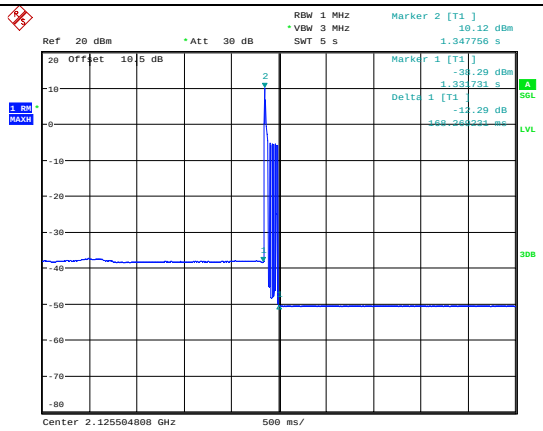
Date: 4.NOV.2023 16:51:16

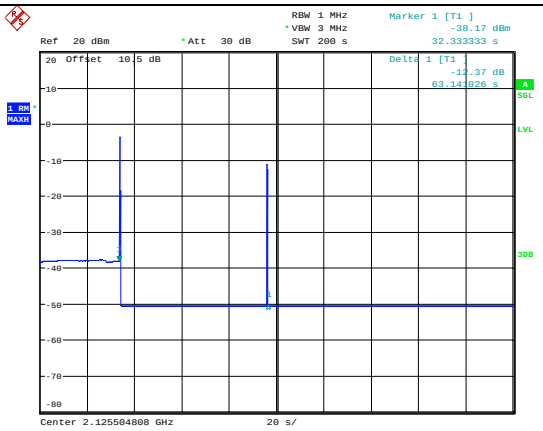


ProjectNo.:CR230310695-RF Tester:Morpheus Shi
Date: 4.NOV.2023 16:57:45

AWS-1-Downlink

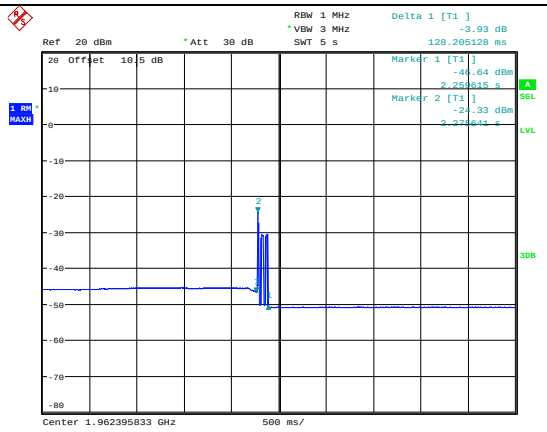


ProjectNo.:CR230310695-RF Tester:Morpheus Shi
Date: 4.NOV.2023 17:01:56

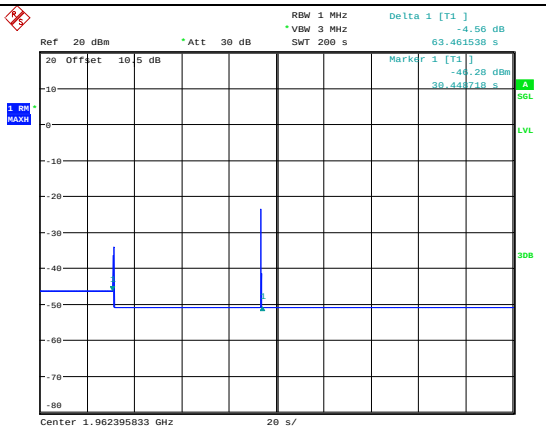


ProjectNo.:CR230310695-RF Tester:Morpheus Shi
Date: 4.NOV.2023 17:07:11

PCS-Downlink



ProjectNo.:CR230310695-RF Tester:Morpheus Shi
Date: 9.NOV.2023 19:34:03



ProjectNo.:CR230310695-RF Tester:Morpheus Shi
Date: 9.NOV.2023 19:49:18

Oscillation Mitigation or Shutdown:

Note: "/" means that booster is shut down.

Mode	Operation Band	Maximum Gain	Isolation	Difference	Limit	Time to Mitigate Oscillation	Mitigation Time Limit
		dB	dB	dB	dB	s	s
Uplink	Lower 700MHz	62.33	+5	11.93	12	/	<300
			+4	12.33	12	284.03	<300
			+3	12.85	12	283.47	<300
			+2	15.88	12	284.03	<300
			+1	18.42	12	284.03	<300
			+0	21.56	12	284.03	<300
			-1	27.09	12	283.47	<300
			-2	Shut down	12	/	<300
			-3	Shut down	12	/	<300
			-4	Shut down	12	/	<300
			-5	Shut down	12	/	<300
	Upper 700MHz	60.34	+5	10.180	12	/	<300
			+4	11.660	12	/	<300
			+3	12.280	12	283.47	<300
			+2	14.110	12	283.37	<300
			+1	16.970	12	284.03	<300
			+0	22.120	12	283.47	<300
			-1	Shut down	12	/	<300
			-2	Shut down	12	/	<300
			-3	Shut down	12	/	<300
			-4	Shut down	12	/	<300
			-5	Shut down	12	/	<300
	Cellular	60.71	+5	12.120	12	283.37	<300
			+4	11.910	12	/	<300
			+3	15.260	12	282.80	<300
			+2	16.980	12	282.80	<300
			+1	18.430	12	282.80	<300
			+0	22.930	12	282.80	<300
			-1	Shut down	12	/	<300
			-2	Shut down	12	/	<300
			-3	Shut down	12	/	<300
			-4	Shut down	12	/	<300
			-5	Shut down	12	/	<300
	AWS-1	61.25	+5	11.810	12	/	<300
			+4	13.280	12	282.80	<300
			+3	15.290	12	282.80	<300
			+2	17.090	12	283.37	<300
			+1	18.500	12	283.37	<300
			+0	20.650	12	283.37	<300
			-1	22.550	12	283.37	<300
			-2	38.050	12	282.80	<300
			-3	Shut down	12	/	<300
			-4	Shut down	12	/	<300
			-5	Shut down	12	/	<300

Mode	Operation Band	Maximum Gain	Isolation	Difference	Limit	Time to Mitigate Oscillation	Mitigation Time Limit
		dB	dB	dB	dB	s	s
Uplink	PCS	57.29	+5	9.280	12	/	<300
			+4	9.820	12	/	<300
			+3	10.630	12	/	<300
			+2	14.150	12	282.63	<300
			+1	14.870	12	282.24	<300
			+0	Shut down	12	/	<300
			-1	Shut down	12	/	<300
			-2	Shut down	12	/	<300
			-3	Shut down	12	/	<300
			-4	Shut down	12	/	<300
			-5	Shut down	12	/	<300
Downlink	Lower 700MHz	61.61	+5	10.12	12	/	<300
			+4	11.25	12	/	<300
			+3	12.03	12	282.07	<300
			+2	12.77	12	282.63	<300
			+1	12.90	12	282.63	<300
			+0	13.26	12	282.63	<300
			-1	15.66	12	283.19	<300
			-2	21.68	12	282.63	<300
			-3	31.30	12	282.63	<300
			-4	Shut down	12	/	<300
			-5	Shut down	12	/	<300
	Upper 700MHz	60.27	+5	8.430	12	/	<300
			+4	14.380	12	282.07	<300
			+3	14.190	12	282.63	<300
			+2	14.790	12	282.63	<300
			+1	15.500	12	282.63	<300
			+0	17.560	12	282.63	<300
			-1	Shut down	12	/	<300
			-2	Shut down	12	/	<300
			-3	Shut down	12	/	<300
			-4	Shut down	12	/	<300
			-5	Shut down	12	/	<300
	Cellular	61.19	+5	6.880	12	/	<300
			+4	7.280	12	/	<300
			+3	7.810	12	/	<300
			+2	8.120	12	/	<300
			+1	9.000	12	/	<300
			+0	9.750	12	/	<300
			-1	10.950	12	/	<300
			-2	12.740	12	282.07	<300
			-3	12.740	12	282.07	<300
			-4	16.460	12	282.63	<300
			-5	20.260	12	282.63	<300

Mode	Operation Band	Maximum Gain	Isolation	Difference	Limit	Time to Mitigate Oscillation	Mitigation Time Limit
		dB	dB	dB	dB	s	s
Downlink	AWS-1	60.13	+5	6.650	12	/	<300
			+4	7.340	12	/	<300
			+3	7.980	12	/	<300
			+2	8.740	12	/	<300
			+1	10.530	12	/	<300
			+0	10.680	12	/	<300
			-1	9.770	12	/	<300
			-2	11.370	12	/	<300
			-3	Shut down	12	/	<300
			-4	Shut down	12	/	<300
			-5	Shut down	12	/	<300
	PCS	61.76	+5	6.67	12	/	<300
			+4	6.70	12	/	<300
			+3	6.74	12	/	<300
			+2	6.74	12	/	<300
			+1	6.74	12	/	<300
			+0	6.64	12	/	<300
			-1	Shut down	12	/	<300
			-2	Shut down	12	/	<300
			-3	Shut down	12	/	<300
			-4	Shut down	12	/	<300
			-5	Shut down	12	/	<300

4.12 Radiated Spurious Emissions:

Serial Number:	22X8_1	Test Date:	2023/4/26
Test Site:	966-2, 966-1	Test Mode:	Transmitting
Tester:	Carl Xue, Coco Tan	Test Result:	Pass

Environmental Conditions:

Temperature: (℃)	26.3~26.5	Relative Humidity: (%)	46~53	ATM Pressure: (kPa)	100.9

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-5	2020/10/19	2023/10/18
R&S	EMI Test Receiver	ESR3	102724	2022/07/15	2023/07/14
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2022/07/17	2023/07/16
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2022/07/17	2023/07/16
Sonoma	Amplifier	310N	186165	2022/07/17	2023/07/16
EMCO	Adjustable Dipole Antenna	3121C	9109-756	N/A	N/A
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020/10/13	2023/10/12
R&S	Spectrum Analyzer	FSV40	101591	2022/07/15	2023/07/14
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2022/08/07	2023/08/06
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2022/08/07	2023/08/06
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2022/11/09	2023/11/08
AH	Double Ridge Guide Horn Antenna	SAS-571	1396	2021/10/18	2024/10/17
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2022/07/17	2023/07/16
Agilent	Signal Generator	E8247C	MY43321352	2022/11/18	2023/11/17
PASTERNACK	Horn Antenna	PE9852/2F-20	112002	2021/02/05	2024/02/04
PASTERNACK	Horn Antenna	PE9852/2F-20	112001	2021/02/05	2024/02/04
AH	Preamplifier	PAM-1840VH	190	2022/11/09	2023/11/08
PASTERNACK	Horn Antenna	PE9850/2F-20	072001	2021/02/05	2024/02/04
PASTERNACK	Horn Antenna	PE9850/2F-20	072002	2021/02/05	2024/02/04
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2022/08/07	2023/08/06

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

Uplink:

Frequency (MHz)	Polar (H / V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Lower 700MHz, Test Frequency: 707MHz								
163.86	H	57.48	-54.29	0.00	0.24	-54.53	-19.00	35.53
163.86	V	60.17	-48.46	0.00	0.24	-48.70	-19.00	29.70
1414.000	H	34.15	-69.52	8.26	0.72	-61.98	-19.00	42.98
1414.000	V	34.67	-69.05	8.26	0.72	-61.51	-19.00	42.51
2121.00	H	36.01	-65.97	9.17	0.92	-57.72	-19.00	38.72
2121.00	V	36.16	-65.80	9.17	0.92	-57.55	-19.00	38.55
4949.00	H	34.73	-58.14	11.14	1.51	-48.51	-19.00	29.51
5656.00	V	39.16	-54.17	11.31	1.55	-44.41	-19.00	25.41
5656.00	H	37.48	-55.98	11.31	1.55	-46.22	-19.00	27.22
6363.00	V	38.47	-53.58	11.19	1.85	-44.24	-19.00	25.24
6363.00	H	38.57	-53.52	11.19	1.85	-44.18	-19.00	25.18
7070.00	V	36.29	-53.45	11.16	1.91	-44.20	-19.00	25.20
7070.00	H	36.48	-53.35	11.16	1.91	-44.10	-19.00	25.10
Upper 700MHz, Test Frequency: 781.5MHz								
165.80	H	57.90	-53.96	0.00	0.24	-54.20	-19.00	35.20
45.52	V	64.95	-31.86	-19.29	0.12	-51.27	-19.00	32.27
1563.000	H	34.51	-69.52	8.58	0.80	-61.74	-19.00	42.74
1563.000	V	35.21	-68.87	8.58	0.80	-61.09	-19.00	42.09
2344.50	H	36.16	-65.37	9.31	0.97	-57.03	-19.00	38.03
2344.50	V	36.67	-64.63	9.31	0.97	-56.29	-19.00	37.29
5470.50	H	38.26	-54.97	11.48	1.47	-44.96	-19.00	25.96
6252.00	V	38.62	-53.28	11.10	1.74	-43.92	-19.00	24.92
6252.00	H	38.58	-53.40	11.10	1.74	-44.04	-19.00	25.04
7033.50	V	38.45	-51.76	11.18	1.92	-42.50	-19.00	23.50
7033.50	H	37.79	-52.55	11.18	1.92	-43.29	-19.00	24.29
7815.00	V	37.70	-52.09	10.84	1.99	-43.24	-19.00	24.24
7815.00	H	37.37	-52.03	10.84	1.99	-43.18	-19.00	24.18
Cellular Band, Test Frequency: 836.5MHz								
161.92	H	55.81	-55.88	0.00	0.24	-56.12	-19.00	37.12
43.58	V	62.86	-31.60	-21.67	0.12	-53.39	-19.00	34.39
1673.000	H	35.71	-68.60	8.71	0.85	-60.74	-19.00	41.74
1673.000	V	35.58	-68.83	8.71	0.85	-60.97	-19.00	41.97
2509.50	H	35.85	-64.76	9.42	1.01	-56.35	-19.00	37.35
2509.50	V	35.49	-65.13	9.42	1.01	-56.72	-19.00	37.72
5855.50	H	37.83	-55.72	11.07	1.59	-46.24	-19.00	27.24
6692.00	V	37.25	-53.83	11.26	1.87	-44.44	-19.00	25.44
6692.00	H	38.13	-53.21	11.26	1.87	-43.82	-19.00	24.82
7528.50	V	38.82	-51.45	10.89	1.96	-42.52	-19.00	23.52
7528.50	H	39.58	-50.14	10.89	1.96	-41.21	-19.00	22.21
8365.00	V	37.95	-50.37	10.87	2.20	-41.70	-19.00	22.70
8365.00	H	38.42	-49.61	10.87	2.20	-40.94	-19.00	21.94

AWS-1 Band, Test Frequency: 1732.5MHz								
132.82	H	55.30	-56.92	0.00	0.22	-57.14	-19.00	38.14
132.82	V	63.19	-43.99	0.00	0.22	-44.21	-19.00	25.21
3465.000	H	36.66	-61.15	10.39	1.15	-51.91	-19.00	32.91
3465.000	V	37.84	-59.93	10.39	1.15	-50.69	-19.00	31.69
5197.50	H	37.83	-56.30	11.32	1.44	-46.42	-19.00	27.42
5197.50	V	37.30	-56.68	11.32	1.44	-46.80	-19.00	27.80
12127.50	H	36.51	-49.14	11.45	2.63	-40.32	-19.00	21.32
13860.00	V	33.46	-50.20	11.99	2.57	-40.78	-19.00	21.78
13860.00	H	30.74	-51.92	11.99	2.57	-42.50	-19.00	23.50
15592.50	V	30.11	-55.10	13.90	2.62	-43.82	-19.00	24.82
15592.50	H	33.06	-52.73	13.90	2.62	-41.45	-19.00	22.45
17325.00	V	30.45	-46.26	12.74	2.95	-36.47	-19.00	17.47
17325.00	H	31.30	-46.27	12.74	2.95	-36.48	-19.00	17.48
PCS Band, Test Frequency: 1882.5MHz								
132.82	H	55.47	-56.75	0.00	0.22	-56.97	-19.00	37.97
132.82	V	62.20	-44.98	0.00	0.22	-45.20	-19.00	26.20
3765.000	H	35.99	-60.34	10.67	1.25	-50.92	-19.00	31.92
3765.000	V	36.91	-59.30	10.67	1.25	-49.88	-19.00	30.88
5647.50	H	37.16	-56.29	11.32	1.55	-46.52	-19.00	27.52
5647.50	V	37.65	-55.68	11.32	1.55	-45.91	-19.00	26.91
13177.50	H	33.44	-50.25	11.96	2.56	-40.85	-19.00	21.85
15060.00	V	29.71	-51.99	13.99	2.54	-40.54	-19.00	21.54
15060.00	H	31.43	-50.59	13.99	2.54	-39.14	-19.00	20.14
16942.50	V	31.85	-47.45	13.05	2.88	-37.28	-19.00	18.28
16942.50	H	32.29	-47.36	13.05	2.88	-37.19	-19.00	18.19

Note 1:The unit of antenna gain is dBd for frequency below 1GHz and is dBi for frequency above 1GHz.
Note 2:
Absolute Level = Substituted Level - Cable loss + Antenna Gain
Margin = Limit- Absolute Level

Downlink:

Frequency (MHz)	Polar (H / V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Lower 700MHz, Test Frequency: 737MHz								
156.13	H	54.89	-56.85	0.00	0.23	-57.08	-19.00	38.08
49.43	V	66.69	-33.98	-15.46	0.12	-49.56	-19.00	30.56
1474.000	H	33.53	-69.98	8.43	0.75	-62.30	-19.00	43.30
1474.000	V	34.34	-69.25	8.43	0.75	-61.57	-19.00	42.57
2211.00	H	35.35	-66.95	9.23	0.94	-58.66	-19.00	39.66
2211.00	V	36.66	-65.70	9.23	0.94	-57.41	-19.00	38.41
5159.00	H	37.96	-55.84	11.30	1.43	-45.97	-19.00	26.97
5896.00	V	40.55	-53.13	11.02	1.68	-43.79	-19.00	24.79
5896.00	H	39.47	-54.14	11.02	1.68	-44.80	-19.00	25.80
6633.00	V	39.04	-52.50	11.27	1.90	-43.13	-19.00	24.13
6633.00	H	40.34	-51.29	11.27	1.90	-41.92	-19.00	22.92
7370.00	V	40.33	-49.52	10.98	1.97	-40.51	-19.00	21.51
7370.00	H	38.91	-50.26	10.98	1.97	-41.25	-19.00	22.25
Upper 700MHz , Test Frequency:751.5MHz								
154.16	H	54.14	-57.66	0.00	0.23	-57.89	-19.00	38.89
49.40	V	67.25	-33.39	-15.49	0.12	-49.00	-19.00	30.00
1503.000	H	32.15	-71.32	8.50	0.76	-63.58	-19.00	44.58
1503.000	V	33.21	-70.36	8.50	0.76	-62.62	-19.00	43.62
2254.50	H	36.66	-65.46	9.25	0.93	-57.14	-19.00	38.14
2254.50	V	35.95	-66.09	9.25	0.93	-57.77	-19.00	38.77
5260.50	H	37.88	-55.83	11.36	1.47	-45.94	-19.00	26.94
6012.00	V	40.25	-52.52	10.91	1.66	-43.27	-19.00	24.27
6012.00	H	40.50	-52.41	10.91	1.66	-43.16	-19.00	24.16
6763.50	V	38.81	-52.54	11.25	1.84	-43.13	-19.00	24.13
6763.50	H	39.82	-51.74	11.25	1.84	-42.33	-19.00	23.33
7515.00	V	39.47	-50.81	10.90	1.95	-41.86	-19.00	22.86
7515.00	H	39.73	-50.04	10.90	1.95	-41.09	-19.00	22.09
Cellular Band, Test Frequency:881.5MHz								
158.04	H	54.97	-56.70	0.00	0.23	-56.93	-19.00	37.93
49.40	V	66.38	-34.26	-15.49	0.12	-49.87	-19.00	30.87
1763.000	H	36.93	-66.86	8.82	0.86	-58.90	-19.00	39.90
1763.000	V	37.09	-66.87	8.82	0.86	-58.91	-19.00	39.91
2644.50	H	36.40	-63.55	9.63	1.06	-54.98	-19.00	35.98
2644.50	V	36.47	-63.39	9.63	1.06	-54.82	-19.00	35.82
6170.50	H	39.54	-52.51	11.04	1.77	-43.24	-19.00	24.24
7052.00	V	37.65	-52.32	11.17	1.93	-43.08	-19.00	24.08
7052.00	H	37.63	-52.45	11.17	1.93	-43.21	-19.00	24.21
7933.50	V	38.16	-50.89	10.81	2.07	-42.15	-19.00	23.15
7933.50	H	36.97	-51.66	10.81	2.07	-42.92	-19.00	23.92
8815.00	V	38.14	-49.98	11.15	2.29	-41.12	-19.00	22.12
8815.00	H	36.03	-51.00	11.15	2.29	-42.14	-19.00	23.14

AWS-1 Band, Test Frequency:2132.5MHz								
163.86	H	54.40	-57.37	0.00	0.24	-57.61	-19.00	38.61
49.40	V	66.66	-33.98	-15.49	0.12	-49.59	-19.00	30.59
4265.000	H	37.95	-58.22	10.74	1.31	-48.79	-19.00	29.79
4265.000	V	36.72	-59.35	10.74	1.31	-49.92	-19.00	30.92
6397.50	H	38.16	-53.88	11.22	1.89	-44.55	-19.00	25.55
6397.50	V	38.82	-53.26	11.22	1.89	-43.93	-19.00	24.93
14927.50	H	31.77	-49.60	13.87	2.51	-38.24	-19.00	19.24
17060.00	V	32.05	-46.28	12.95	2.92	-36.25	-19.00	17.25
17060.00	H	30.62	-48.11	12.95	2.92	-38.08	-19.00	19.08
PCS Band, Test Frequency:1962.5MHz								
156.10	H	55.26	-56.48	0.00	0.23	-56.71	-19.00	37.71
49.40	V	66.19	-34.45	-15.49	0.12	-50.06	-19.00	31.06
3925.000	H	36.54	-59.53	10.83	1.28	-49.98	-19.00	30.98
3925.000	V	36.16	-59.85	10.83	1.28	-50.30	-19.00	31.30
5887.50	H	39.89	-53.71	11.04	1.66	-44.33	-19.00	25.33
5887.50	V	39.09	-54.56	11.04	1.66	-45.18	-19.00	26.18
13737.50	H	29.08	-53.98	11.89	2.56	-44.65	-19.00	25.65
15700.00	V	30.85	-54.56	13.90	2.66	-43.32	-19.00	24.32
15700.00	H	33.58	-52.23	13.90	2.66	-40.99	-19.00	21.99
17662.50	V	28.67	-42.66	12.41	2.81	-33.06	-19.00	14.06
17662.50	H	32.89	-42.32	12.41	2.81	-32.72	-19.00	13.72

Note 1:The unit of antenna gain is dBd for frequency below 1GHz and is dBi for frequency above 1GHz.
Note 2:
Absolute Level = Substituted Level - Cable loss + Antenna Gain
Margin = Limit- Absolute Level

5. RF EXPOSURE EVALUATION

5.1 FCC Maximum Permissible Exposure (MPE)

5.1.1 Applicable Standard

According to subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

5.1.2 Limits

Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	**Electric Field Strength (V/m)**	**Magnetic Field Strength (A/m)**	**Power Density (mW/cm^2)**	**Averaging Time (minutes)**
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f²)	30
30–300	27.5	0.073	0.2	30
300–1500	/	/	f/1500	30
1500–100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

5.1.3 Calculated Formulary:

Predication of MPE limit at a given distance
$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm^2);
P = power input to the antenna (in appropriate units, e.g., mW);
G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;
R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

5.1.4 Calculated Data

Mode	Frequency Band (MHz)	Maximum Tune-up Conducted Power (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Evaluation Distance (cm)	Power Density (mW/cm^2)	MPE Limit (mW/cm^2)
Uplink	698-716	24	7.42	1.55	20	0.193	0.465
	776-787	24	7.45	1.59	20	0.193	0.517
	824-849	23	7.72	1.63	20	0.161	0.549
	1710-1755	25	6.35	2.91	20	0.139	1.000
	1850-1915	25	7.47	3.05	20	0.174	1.000
Downlink	728-746	10	4.81	0.38	20	0.006	0.485
	746-757	9	3.90	0.39	20	0.004	0.497
	869-894	9	5.81	0.41	20	0.006	0.579
	2110-2155	6	7.35	1.10	20	0.003	1.000
	1930-1995	4	7.13	1.15	20	0.002	1.000

Result: Compliant, The device meet MPE requirement at 20 cm distance.

6. EUT PHOTOGRAPHS

Please refer to the attachment CR230310695-EXP EUT EXTERNAL PHOTOGRAPHS and CR230310695-INP EUT INTERNAL PHOTOGRAPHS

7. TEST SETUP PHOTOGRAPHS

Please refer to the attachment CR230310695-00-TSP TEST SETUP PHOTOGRAPHS.

=====END OF REPORT=====