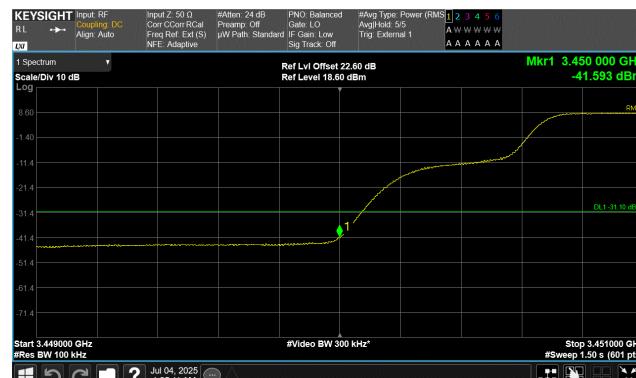
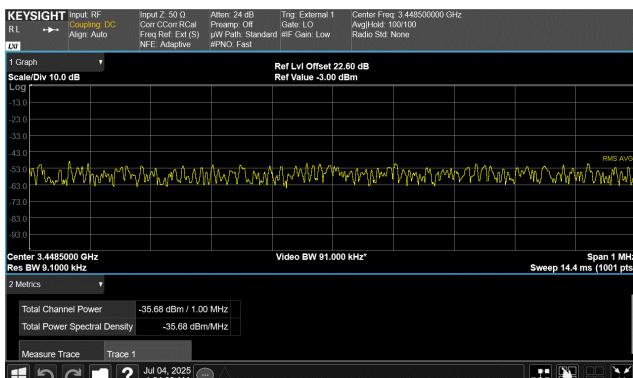
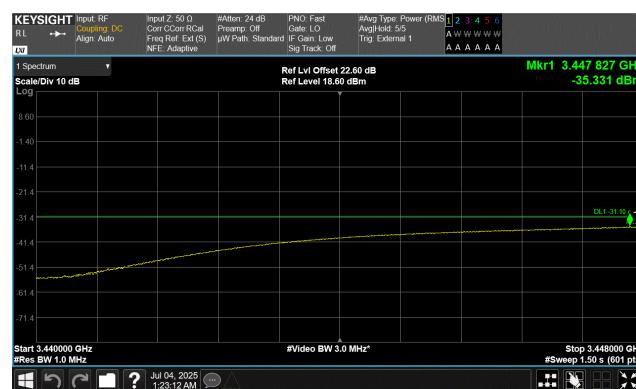
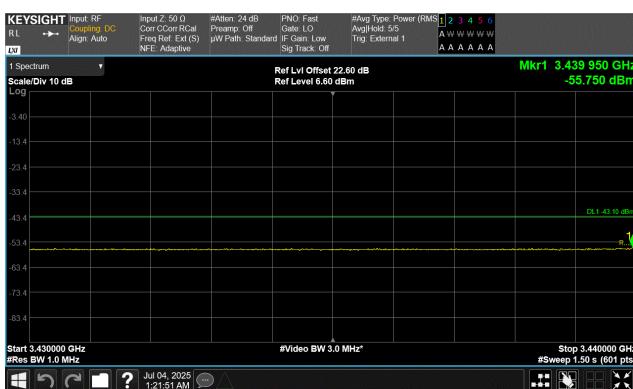
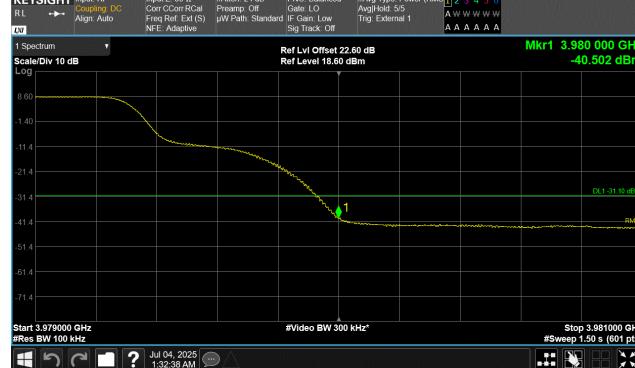
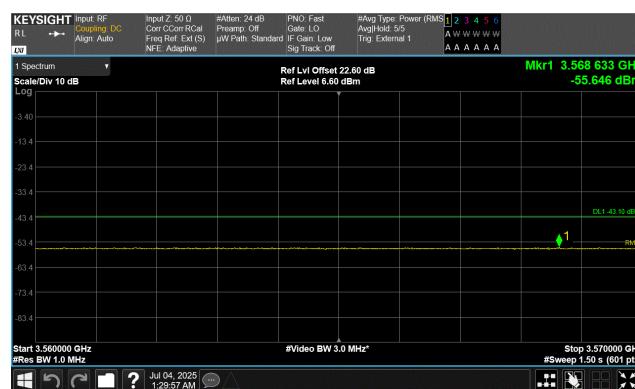
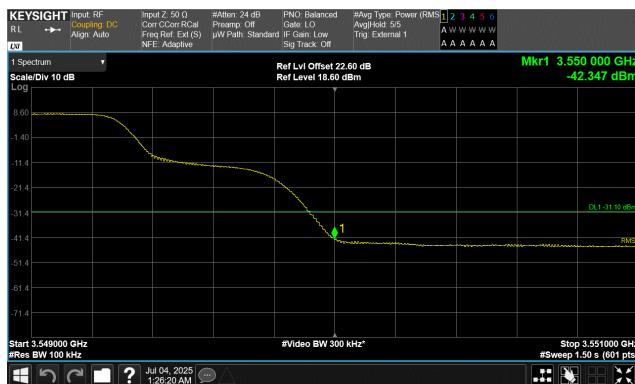


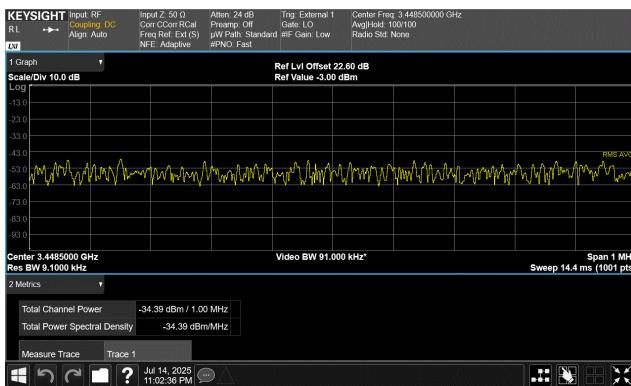
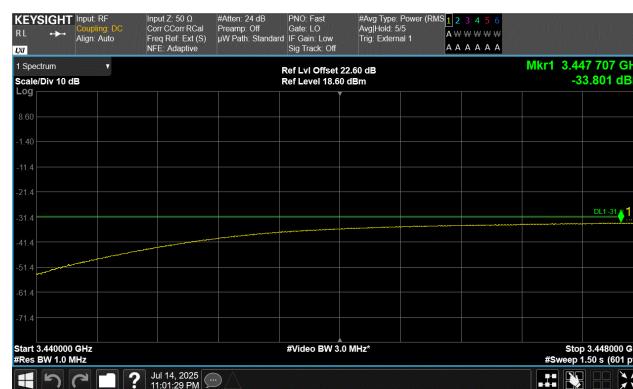
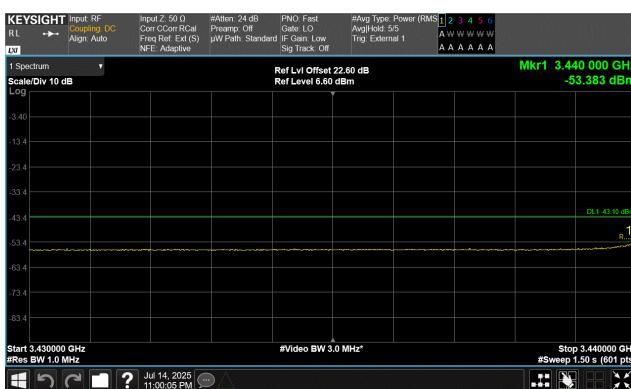
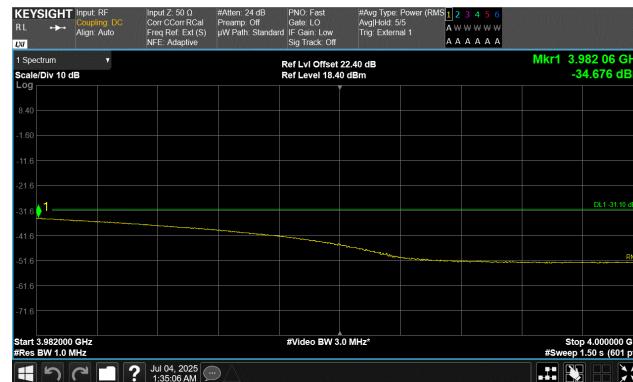
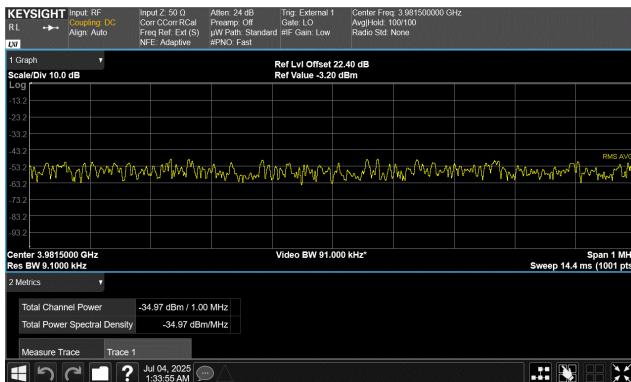
BAND EDGE COMPLIANCE - MULTIBAND



BAND EDGE COMPLIANCE - MULTIBAND



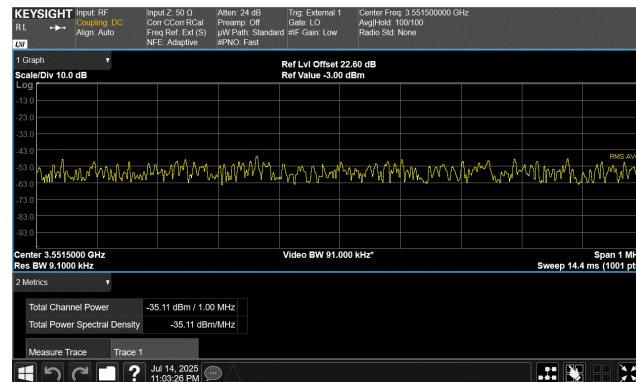
BAND EDGE COMPLIANCE - MULTIBAND



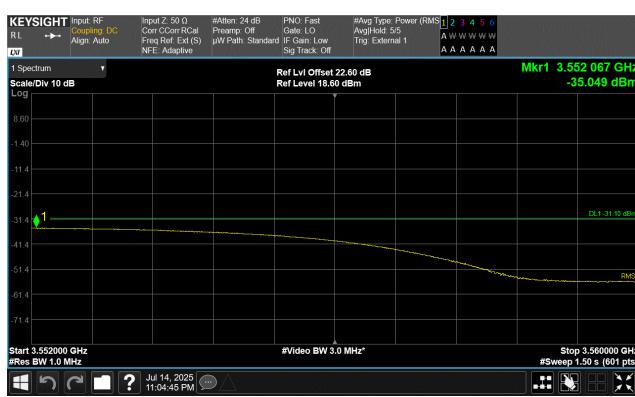
BAND EDGE COMPLIANCE - MULTIBAND



Test Case E
3549.0 MHz to 3551.0 MHz



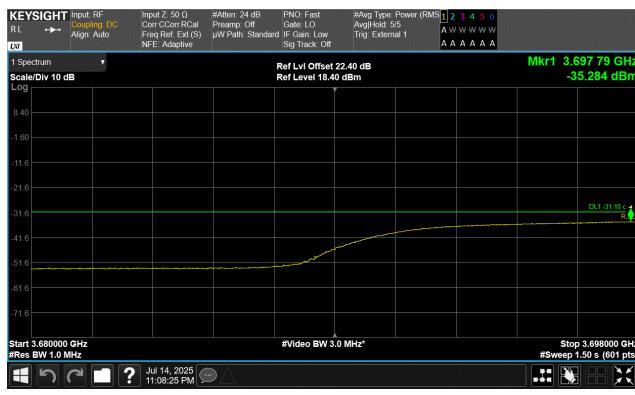
Test Case E
3551.0 MHz to 3552.0 MHz



Test Case E
3552.0 MHz to 3560.0 MHz



Test Case E
3560.0 MHz to 3570.0 MHz

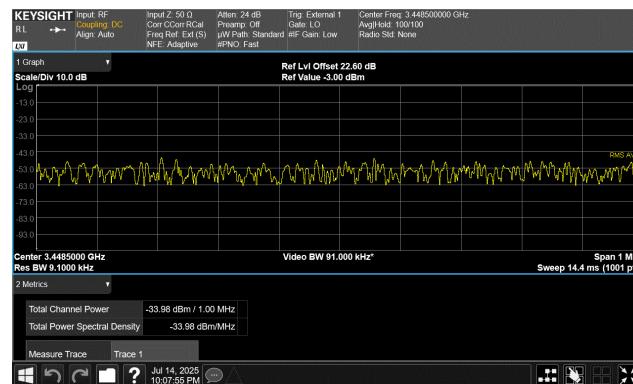
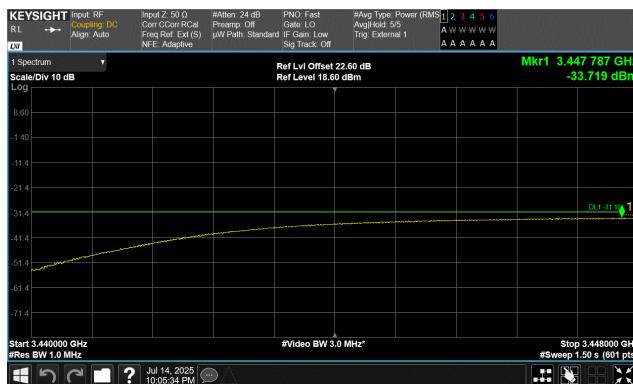
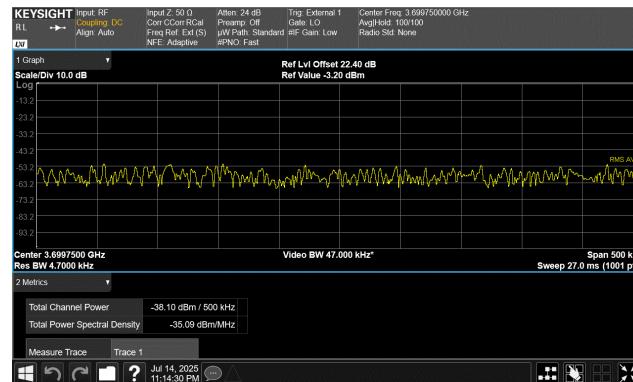
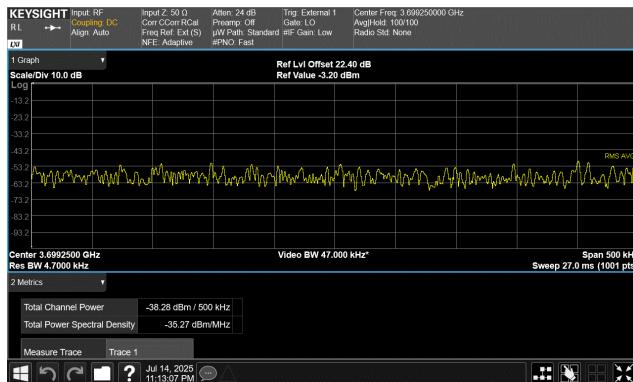


Test Case E
3680.0 MHz to 3698.0 MHz



Test Case E
3698.0 MHz to 3700.0 MHz

BAND EDGE COMPLIANCE - MULTIBAND



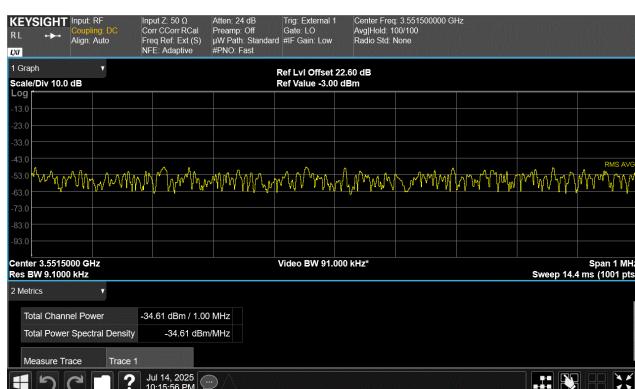
BAND EDGE COMPLIANCE - MULTIBAND



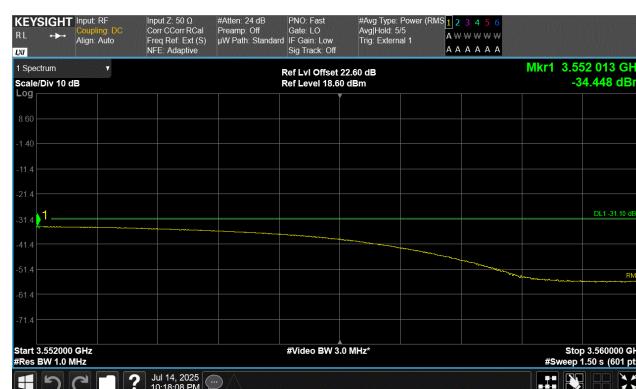
Test Case F
3449.0 MHz to 3451.0 MHz



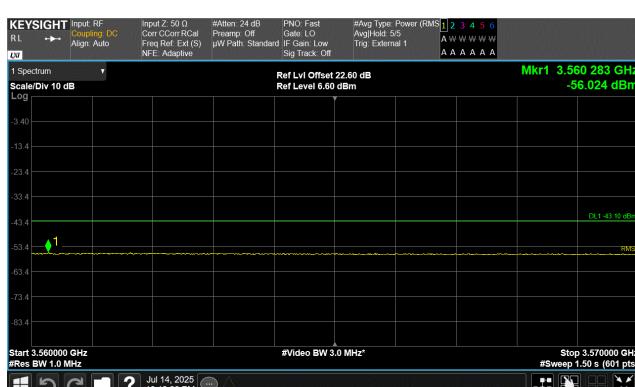
Test Case F
3549.0 MHz to 3551.0 MHz



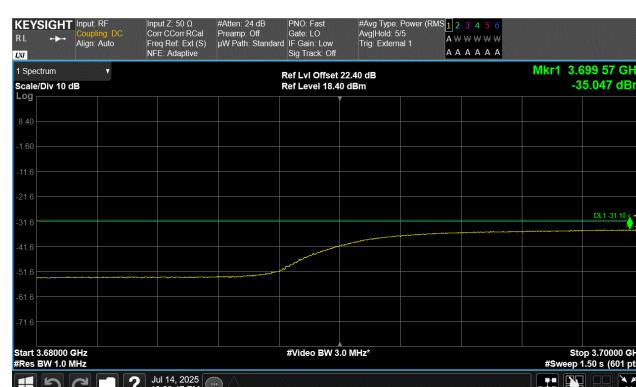
Test Case F
3551.0 MHz to 3552.0 MHz



Test Case F
3552.0 MHz to 3560.0 MHz



Test Case F
3560.0 MHz to 3570.0 MHz



Test Case F
3680.0 MHz to 3700.0 MHz

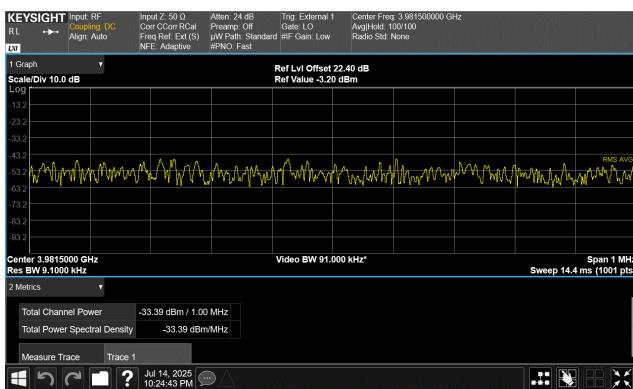
BAND EDGE COMPLIANCE - MULTIBAND



Test Case F
3980.0 MHz to 3980.5 MHz



Test Case F
3980.5 MHz to 3981.0 MHz



Test Case F
3981.0 MHz to 3982.0 MHz



Test Case F
3982.0 MHz to 4000.0 MHz

SPURIOUS CONDUCTED EMISSIONS - 3400 BAND



TEST DESCRIPTION

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

The antenna port spurious emissions were measured at the RF output terminal of the EUT through five different attenuation configurations which continues through to the RF input of the spectrum analyzer. Analyzer plots utilizing a resolution bandwidth defined by ANSI C63.2 were made from 9 kHz to 40 GHz. The conducted power of spurious emissions, up to the 10th harmonic of the transmit frequency, were investigated.

RF conducted emissions testing was performed only on one port. The AVQQA antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown in output power testing) and antenna port 1 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraphs 5.2.5.3, 5.7.2i, and 6.4.

The measurement methods for FCC measurements are detailed in KDB971168 D01v03 section 6 and ANSI C63.26-2015. Measurements shall be performed at full power on the channel(s) and bandwidth(s) specified by the compliance lab. These measurements are for frequency bands outside band edge region (frequency ranges below 3430MHz and above 3570MHz).

Per FCC 2.1057(a)(1), the upper level of measurement is the 10th harmonic of the highest fundamental frequency. As such, the upper level of the measurement is approximately 40 GHz (3550 MHz * 10) for the AVQQA 3.45GHz Band.

Per section FCC 27.53(n)(1) and FCC 27.53 (l)(1), power of any emission outside of the authorized operating frequency range cannot exceed, of the two rule parts, the more restrictive limits. Per section 27.53(n)(1), the power of any emission outside band edge region (frequency ranges below 3430MHz and above 3570MHz) cannot exceed -40 dBm/MHz. The limit is adjusted to -58.1 dBm [-40 dBm -10 log (64)] per FCC KDB 662911D01 v02r01 and ANSI C63.26-2015 section 6.4 because the BTS may operate as a 64 port MIMO transmitter. The resolution bandwidth to be used for these measurements must be 1MHz per FCC 27.53(n)(1).

Per ITU-R SM.329-10 section 4.1, measurement resolution bandwidth (RBW) 1KHz and 10KHz "Reference bandwidth" limit scaling/adjustment is not required.

All Measurements were synchronized with the measurement receiver - gated with external trigger input (frame clock (100Hz) provided by the system module.

In 3.45GHz band single carrier operating mode - carriers were enabled at maximum power levels. Simultaneously, 3.7GHz band NR10 carrier were enable to operate at 30 watts or 0.468W(26.7dBm)/per carrier on middle channel.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Keysight Technologies	N9030B	AGA	2025-06-09	2026-06-09
Block - DC	Centric RF	C0140	ANJ	NCR	NCR
Generator - Signal	Agilent	N5173B	TIW	2023-08-07	2026-08-07

Note: The RF Test Setup/ Network (RF cables/Attenuators/filter/etc.) is defined in the configurations section for each test. The RF Test Setup/Network is calibrated using the signal generator and spectrum analyzer prior to test. The RF insertion loss of the RF Test Setup/Network is accounted for by the spectrum analyzer's reference level offset during the RF conducted testing.

SPURIOUS CONDUCTED EMISSIONS - 3400 BAND



EUT:	Airscale Base Transceiver Station Radio Unit Model AVQQA	Work Order:	NOKI0086
Serial Number:	L1242501908	Date:	2025-07-16
Customer:	Nokia Solutions and Networks	Temperature:	23.8°C
Attendees:	John Rattanavong, Mitch Hill	Relative Humidity:	50.6%
Customer Project:	None	Bar. Pressure (PMSL):	1014 mbar
Tested By:	Jarrod Brenden	Job Site:	PT14
Power:	54 VDC	Configuration:	NOKI0086-3

COMMENTS

All losses in the measurement path were accounted for in the reference level offset; attenuators, filters, cables, and DC blocks.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

Tested By

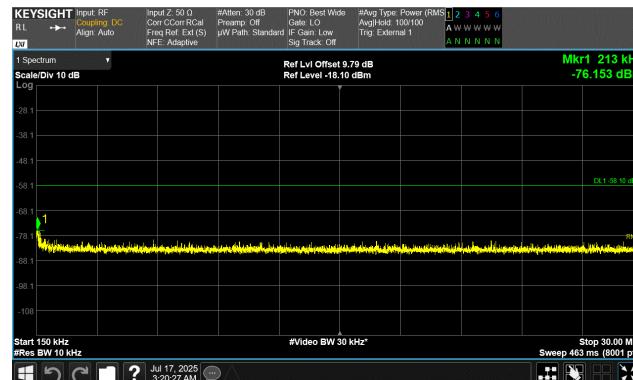
TEST RESULTS

	Frequency Range	Frequency (MHz)	Value (dBm)	Limit (dBm)	Result	
Port 1						
	50 MHz Channel Bandwidth					
	QPSK Modulation					
	Mid Channel, 3500.01 MHz	9 kHz to 150 kHz	0.135	-69.818	-58.1	Pass
		150 kHz to 30 MHz	0.213	-76.153	-58.1	Pass
		30 MHz to 3400 MHz	3193.2	-65.589	-58.1	Pass
		4030 MHz to 6000 MHz	4042.56	-65.143	-58.1	Pass
		3100 MHz to 3430 MHz	3165.34	-69.767	-58.1	Pass
		3570 MHz to 3680 MHz	3595.74	-64.315	-58.1	Pass
		4000 MHz to 4200 MHz	4010.4	-65.259	-58.1	Pass
		3400 MHz to 4030 MHz	3984.33	-41.9	-31.1	Pass
		6 GHz to 13 GHz	11407.15	-66.446	-58.1	Pass
		13 GHz to 20 GHz	19957.3	-65.202	-58.1	Pass
		20 GHz to 40 GHz	38326.4	-66.479	-58.1	Pass

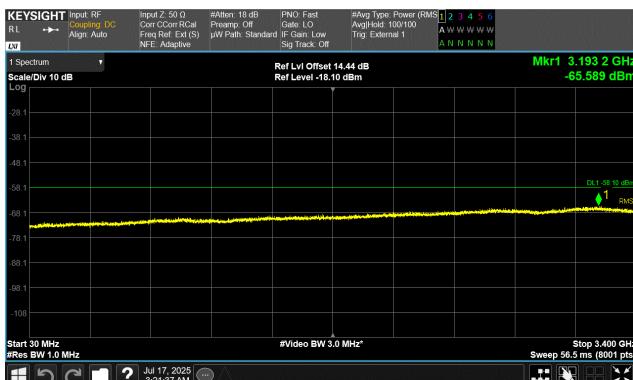
SPURIOUS CONDUCTED EMISSIONS - 3400 BAND



50 MHz Channel Bandwidth
QPSK Modulation
Mid Channel, 3500.01 MHz
9 kHz to 150 kHz



50 MHz Channel Bandwidth
QPSK Modulation
Mid Channel, 3500.01 MHz
150 kHz to 30 MHz



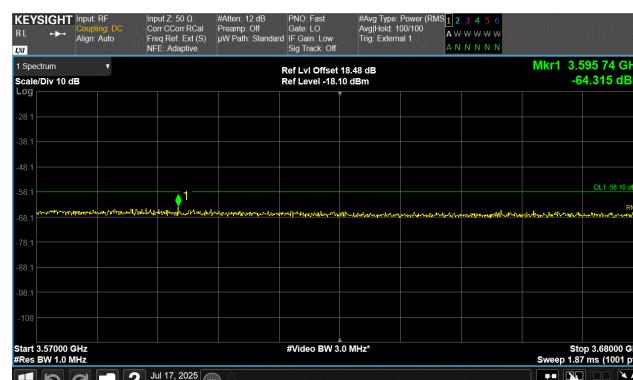
50 MHz Channel Bandwidth
QPSK Modulation
Mid Channel, 3500.01 MHz
30 MHz to 3400 MHz



50 MHz Channel Bandwidth
QPSK Modulation
Mid Channel, 3500.01 MHz
4030 MHz to 6000 MHz

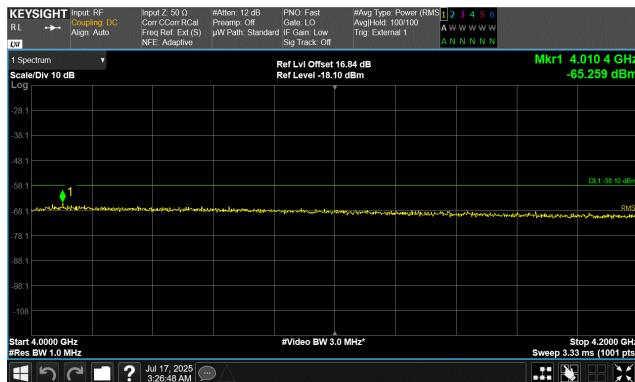


50 MHz Channel Bandwidth
QPSK Modulation
Mid Channel, 3500.01 MHz
3100 MHz to 3430 MHz



50 MHz Channel Bandwidth
QPSK Modulation
Mid Channel, 3500.01 MHz
3570 MHz to 3680 MHz

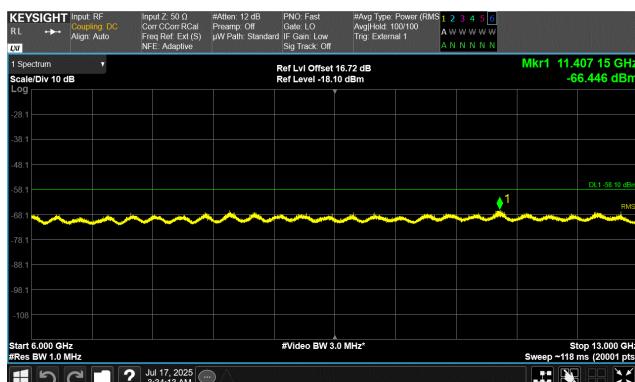
SPURIOUS CONDUCTED EMISSIONS - 3400 BAND



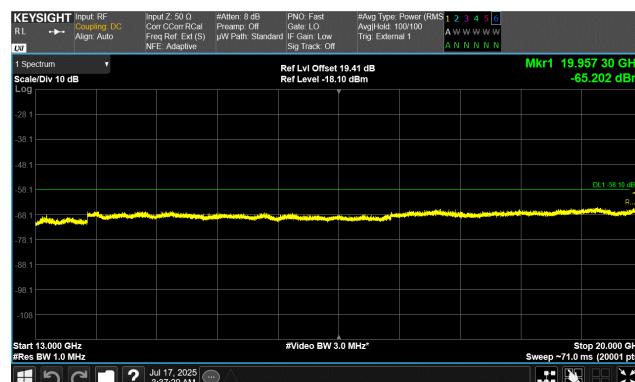
50 MHz Channel Bandwidth
QPSK Modulation
Mid Channel, 3500.01 MHz
4000 MHz to 4200 MHz



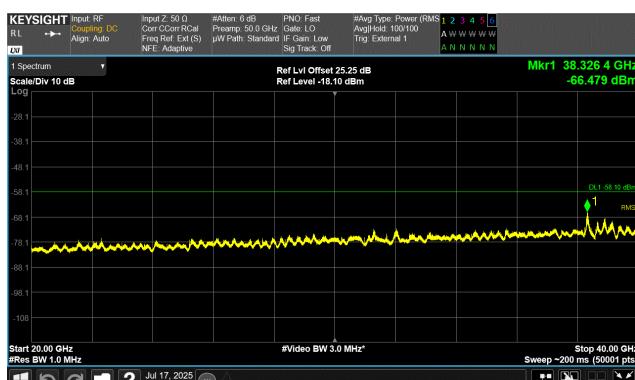
50 MHz Channel Bandwidth
QPSK Modulation
Mid Channel, 3500.01 MHz
3400 MHz to 4030 MHz



50 MHz Channel Bandwidth
QPSK Modulation
Mid Channel, 3500.01 MHz
6 GHz to 13 GHz



50 MHz Channel Bandwidth
QPSK Modulation
Mid Channel, 3500.01 MHz
13 GHz to 20 GHz



50 MHz Channel Bandwidth
QPSK Modulation
Mid Channel, 3500.01 MHz
20 GHz to 40 GHz

SPURIOUS CONDUCTED EMISSIONS - MULTICARRIER, 3400 BAND



TEST DESCRIPTION

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

The antenna port spurious emissions were measured at the RF output terminal of the EUT through five different attenuation configurations which continues through to the RF input of the spectrum analyzer. Analyzer plots utilizing a resolution bandwidth defined by ANSI C63.2 were made from 9 kHz to 40 GHz. The conducted power of spurious emissions, up to the 10th harmonic of the transmit frequency, were investigated.

RF conducted emissions testing was performed only on one port. The AVQQA antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown in output power testing) and antenna port 1 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraphs 5.2.5.3, 5.7.2i, and 6.4.

Per FCC 2.1057(a)(1), the upper level of measurement is the 10th harmonic of the highest fundamental frequency. As such, the upper level of the measurement is approximately 40 GHz (3550 MHz * 10) for the AVQQA 3.45GHz Band.

Per section FCC 27.53(n)(1) and FCC 27.53 (l)(1), power of any emission outside of the authorized operating frequency range cannot exceed, of the two rule parts, the more restrictive limits. Per section 27.53(n)(1), the power of any emission outside band edge region (frequency ranges below 3430MHz and above 3570MHz) cannot exceed -40 dBm/MHz. The limit is adjusted to -58.1 dBm [-40 dBm -10 log (64)] per FCC KDB 662911D01 v02r01 and ANSI C63.26-2015 section 6.4 because the BTS may operate as a 64 port MIMO transmitter. The resolution bandwidth to be used for these measurements must be 1MHz per FCC 27.53(n)(1).

Per ITU-R SM.329-10 section 4.1, measurement resolution bandwidth (RBW) 1KHz and 10KHz "Reference bandwidth" limit scaling/adjustment is not required.

All Measurements were synchronized with the measurement receiver - gated with external trigger input (frame clock (100Hz) provided by the system module.

In 3.45GHz band single carrier operating mode - carriers were enabled at maximum power levels. Simultaneously, 3.7GHz band NR10 carrier were enable to operate at 30 watts or 0.468W(26.7dBm)/per carrier on middle channel.

Multicarrier test cases have been developed as shown below:

- a) 3.45GHz Band Multicarrier: Two contiguous NR50 carriers with maximum spacing between carrier frequencies at the lower/upper band edges (3475.02 & 3525MHz). The largest channel bandwidth is selected to maximize available radio power and occupied bandwidth. The carriers are operated at maximum power (~1.56W/carrier). At the same time, 3.7GHz Band NR10 Carrier operates at 30 watts on middle channel with a total radio power of 230 watts.
- b) 3.45GHz Band Multicarrier: In 3.45GHz band, Two contiguous NR20 carriers with minimum spacing between carrier frequencies at the lower band edge (3460.02 & 3480.00MHz). The smallest channel bandwidth is selected to maximized available radio power. The carriers are operated at maximum power (~1.56W/carrier). At the same time, 3.7GHz Band NR10 Carrier operates at 30 watts on middle channel with a total radio power of 230 watts.
- c) 3.45GHz Band Multicarrier: In 3.45GHz band, Two contiguous NR20 carriers with minimum spacing between carrier frequencies at the upper band edge (3520.02 & 3540.00MHz). The channel bandwidth is selected to

SPURIOUS CONDUCTED EMISSIONS - MULTICARRIER, 3400 BAND



maximized available radio power. The carriers are operated at maximum power (~1.56W/carrier). At the same time, 3.7GHz Band NR10 Carrier operates at 30 watts on middle channel with a total radio power of 230 watts.

d) 3.45GHz Band Multicarrier: In 3.45GHz band, Two non-contiguous NR20 carriers with maximum spacing between carrier frequencies at the lower/upper band edge (3460.02 & 3540.00MHz). The channel bandwidth is selected to maximized available radio power and occupied bandwidth. The carriers are operated at maximum power (~1.56W/carrier). At the same time, 3.7GHz Band NR10 Carrier operates at 30 watts on middle channel with a total radio power of 230 watts.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Keysight Technologies	N9030B	AGA	2025-06-09	2026-06-09
Block - DC	Centric RF	C0140	ANJ	NCR	NCR
Generator - Signal	Agilent	N5173B	TIW	2023-08-07	2026-08-07

Note: The RF Test Setup/ Network (RF cables/Attenuators/filter/etc.) is defined in the configurations section for each test. The RF Test Setup/Network is calibrated using the signal generator and spectrum analyzer prior to test. The RF insertion loss of the RF Test Setup/Network is accounted for by the spectrum analyzer's reference level offset during the RF conducted testing.

SPURIOUS CONDUCTED EMISSIONS - MULTICARRIER, 3400 BAND



EUT:	Airscale Base Transceiver Station Radio Unit Model AVQQA	Work Order:	NOKI0086
Serial Number:	L1242501908	Date:	2025-07-16
Customer:	Nokia Solutions and Networks	Temperature:	23.9°C
Attendees:	John Rattanavong, Mitch Hill	Relative Humidity:	50.4%
Customer Project:	None	Bar. Pressure (PMSL):	1014 mbar
Tested By:	Jarrod Brenden	Job Site:	PT14
Power:	54 VDC	Configuration:	NOKI0086-3

COMMENTS

All losses in the measurement path were accounted for in the reference level offset; attenuators, filters, cables, and DC blocks.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

Tested By

TEST RESULTS

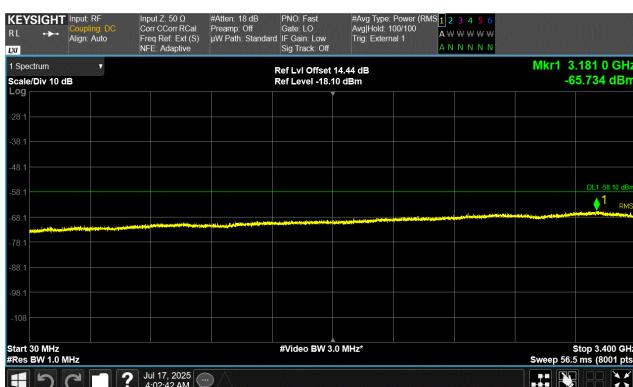
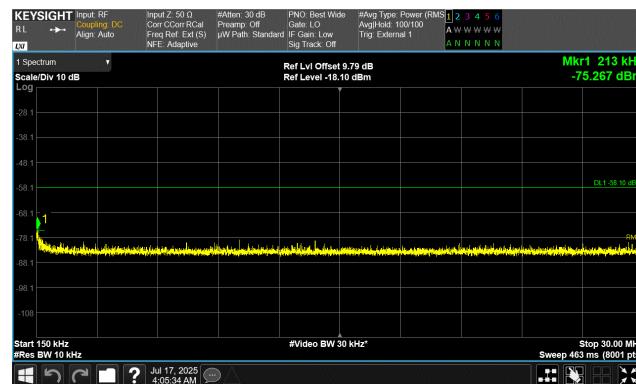
	Frequency Range	Frequency (MHz)	Value (dBm)	Limit (dBm)	Result
Port 1					
QPSK Modulation					
Test Case A					
NR50, 3475.02 MHz & NR50, 3525.00 MHz	9 kHz to 150 kHz 150 kHz to 30 MHz 30 MHz to 3400 MHz 4030 MHz to 6000 MHz 3100 MHz to 3430 MHz 3570 MHz to 3680 MHz 4000 MHz to 4200 MHz 3400 MHz to 4030 MHz 6 GHz to 13 GHz 13 GHz to 20 GHz 20 GHz to 40 GHz	0.135 0.213 3181 4353.33 3163.69 3581.99 4038.6 3984.25 8311.4 19995.8 38350	-69.506 -75.267 -65.734 -65.18 -69.763 -64.185 -66.06 -39.754 -66.292 -65.492 -67.585	-58.1 -58.1 -58.1 -58.1 -58.1 -58.1 -58.1 -31.1 -58.1 -58.1 -58.1	Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass
Test Case B					
NR20, 3460.02 MHz & NR20, 3480.00 MHz	9 kHz to 150 kHz 150 kHz to 30 MHz 30 MHz to 3400 MHz 4030 MHz to 6000 MHz 3100 MHz to 3430 MHz 3570 MHz to 3680 MHz 4000 MHz to 4200 MHz 3400 MHz to 4030 MHz 6 GHz to 13 GHz 13 GHz to 20 GHz 20 GHz to 40 GHz	0.135 0.15 3080.7 4336.34 3152.8 3595.85 4007.8 3983.07 11399.1 19926.15 38305.6	-70.239 -75.798 -65.683 -65.006 -69.652 -64.678 -65.15 -40.467 -65.443 -64.935 -67.216	-58.1 -58.1 -58.1 -58.1 -58.1 -58.1 -58.1 -31.1 -58.1 -58.1 -58.1	Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass

SPURIOUS CONDUCTED EMISSIONS - MULTICARRIER, 3400 BAND



	Frequency Range	Frequency (MHz)	Value (dBm)	Limit (dBm)	Result
Test Case C					
NR20, 3520.02 MHz & NR20, 3540.00 MHz	9 kHz to 150 kHz	0.135	-70.092	-58.1	Pass
	150 kHz to 30 MHz	0.165	-76.443	-58.1	Pass
	30 MHz to 3400 MHz	3186	-65.735	-58.1	Pass
	4030 MHz to 6000 MHz	4038.87	-65.263	-58.1	Pass
	3100 MHz to 3430 MHz	3194.38	-70.028	-58.1	Pass
	3570 MHz to 3680 MHz	3576.05	-63.387	-58.1	Pass
	4000 MHz to 4200 MHz	4051.8	-65.749	-58.1	Pass
	3400 MHz to 4030 MHz	3982.12	-41.002	-31.1	Pass
	6 GHz to 13 GHz	11402.25	-65.438	-58.1	Pass
	13 GHz to 20 GHz	19993.35	-65.022	-58.1	Pass
	20 GHz to 40 GHz	38296.4	-66.703	-58.1	Pass
Test Case D					
NR20, 3460.02 MHz & NR20, 3540.00 MHz	9 kHz to 150 kHz	0.135	-70.002	-58.1	Pass
	150 kHz to 30 MHz	0.154	-75.435	-58.1	Pass
	30 MHz to 3400 MHz	3212.1	-65.865	-58.1	Pass
	4030 MHz to 6000 MHz	4325.99	-65.096	-58.1	Pass
	3100 MHz to 3430 MHz	3205.27	-69.841	-58.1	Pass
	3570 MHz to 3680 MHz	3573.74	-64.72	-58.1	Pass
	4000 MHz to 4200 MHz	4017.2	-65.288	-58.1	Pass
	3400 MHz to 4030 MHz	3984.01	-40.386	-31.1	Pass
	6 GHz to 13 GHz	11399.1	-65.853	-58.1	Pass
	13 GHz to 20 GHz	19981.8	-65.503	-58.1	Pass
	20 GHz to 40 GHz	38320.4	-68.018	-58.1	Pass

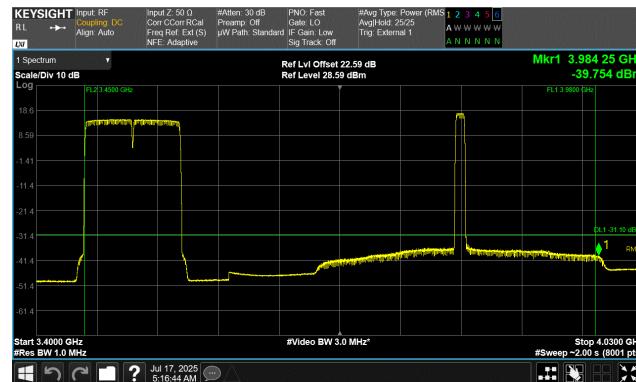
SPURIOUS CONDUCTED EMISSIONS - MULTICARRIER, 3400 BAND



SPURIOUS CONDUCTED EMISSIONS - MULTICARRIER, 3400 BAND



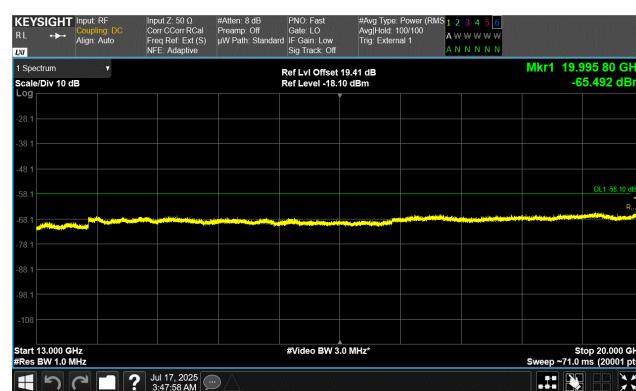
Test Case A
4000 MHz to 4200 MHz



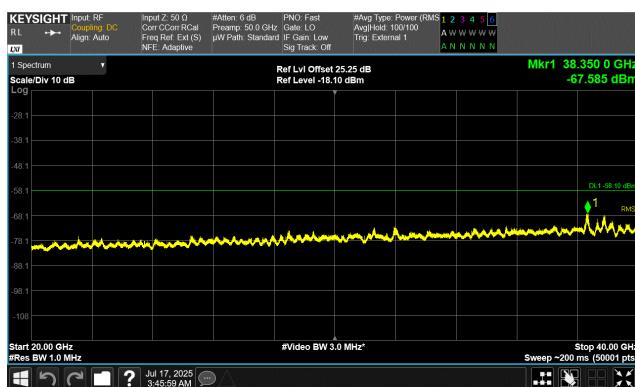
Test Case A
3400 MHz to 4030 MHz



Test Case A
6 GHz to 13 GHz



Test Case A
13 GHz to 20 GHz

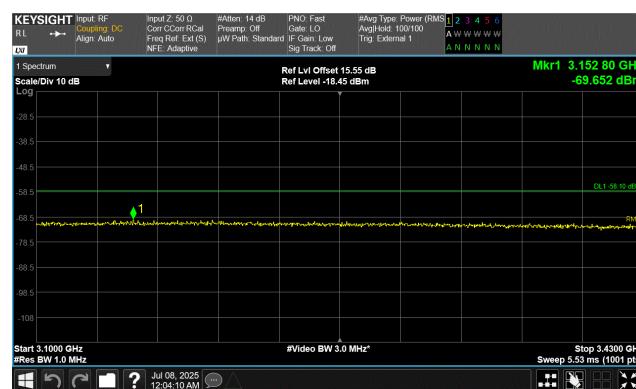
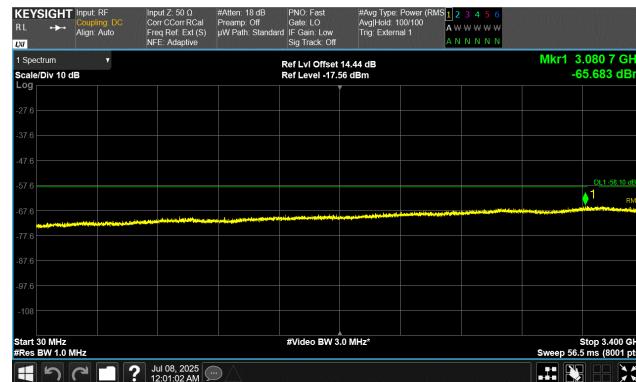
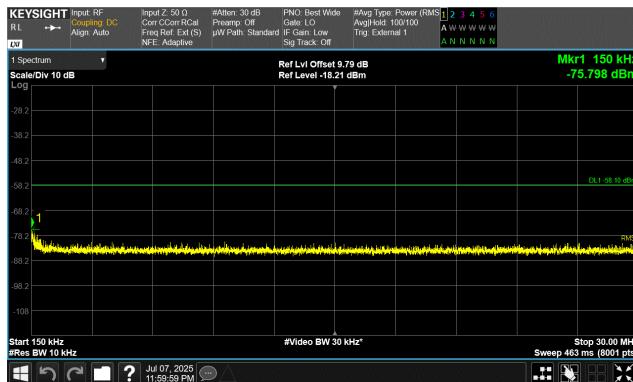


Test Case A
20 GHz to 40 GHz

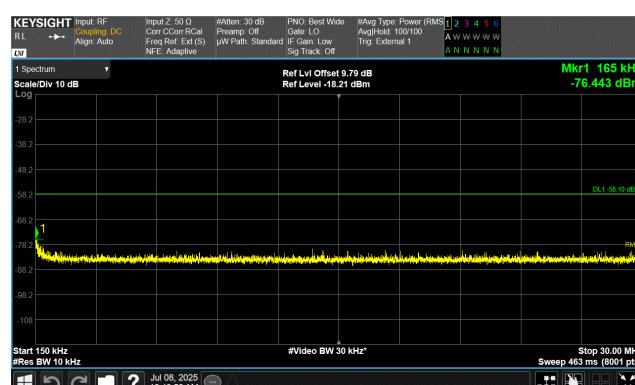
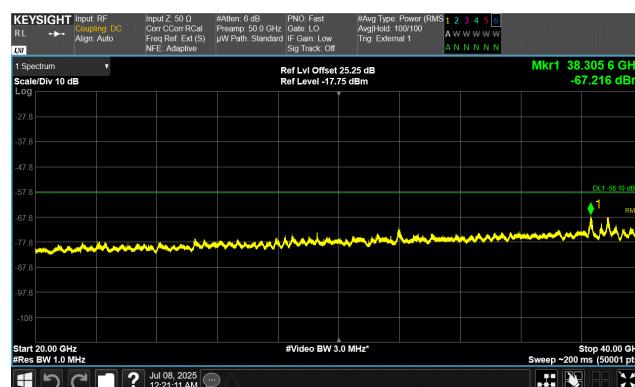
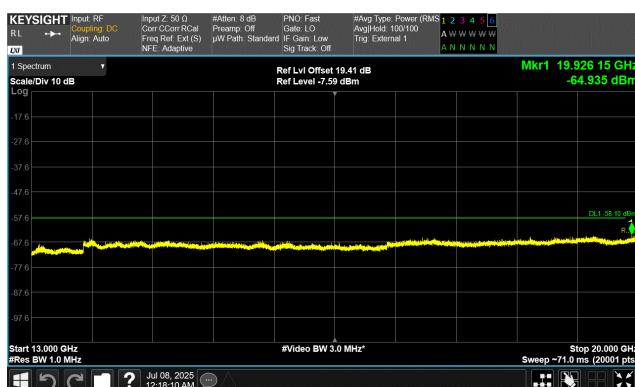
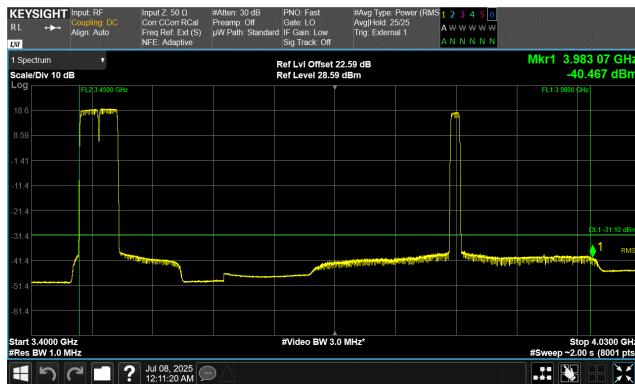


Test Case B
9 kHz to 150 kHz

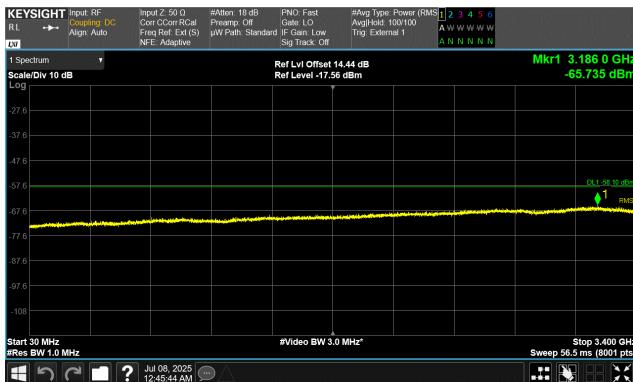
SPURIOUS CONDUCTED EMISSIONS - MULTICARRIER, 3400 BAND



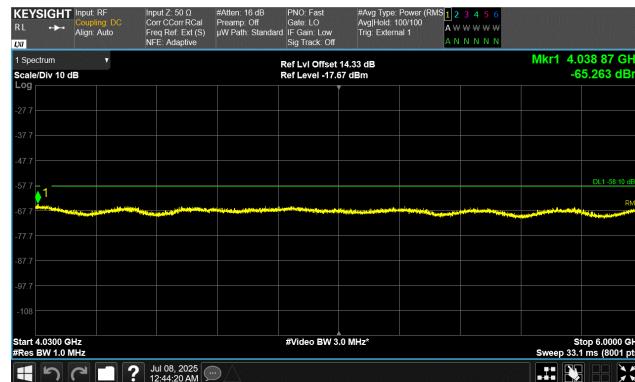
SPURIOUS CONDUCTED EMISSIONS - MULTICARRIER, 3400 BAND



SPURIOUS CONDUCTED EMISSIONS - MULTICARRIER, 3400 BAND



Test Case C
30 MHz to 3400 MHz



Test Case C
4030 MHz to 6000 MHz



Test Case C
3100 MHz to 3430 MHz



Test Case C
3570 MHz to 3680 MHz



Test Case C
4000 MHz to 4200 MHz



Test Case C
3400 MHz to 4030 MHz

SPURIOUS CONDUCTED EMISSIONS - MULTICARRIER, 3400 BAND

