

OCCUPIED BANDWIDTH



60 MHz Base Channel Bandwidth
55.0 MHz Slim Carrier Bandwidth
QPSK Modulation
Low Channel, 2526.00 MHz



60 MHz Base Channel Bandwidth
55.0 MHz Slim Carrier Bandwidth
QPSK Modulation
Middle Channel, 2529.99 MHz



60 MHz Base Channel Bandwidth
55.0 MHz Slim Carrier Bandwidth
QPSK Modulation
High Channel, 2659.98 MHz



60 MHz Base Channel Bandwidth
55.0 MHz Slim Carrier Bandwidth
16QAM Modulation
Middle Channel, 2529.99 MHz



60 MHz Base Channel Bandwidth
55.0 MHz Slim Carrier Bandwidth
64QAM Modulation
Middle Channel, 2529.99 MHz



60 MHz Base Channel Bandwidth
55.0 MHz Slim Carrier Bandwidth
256QAM Modulation
Middle Channel, 2529.99 MHz

OCCUPIED BANDWIDTH



60 MHz Base Channel Bandwidth
57.5 MHz Slim Carrier Bandwidth
QPSK Modulation
Low Channel, 2562.00 MHz



60 MHz Base Channel Bandwidth
57.5 MHz Slim Carrier Bandwidth
QPSK Modulation
Middle Channel, 2592.99 MHz



60 MHz Base Channel Bandwidth
57.5 MHz Slim Carrier Bandwidth
QPSK Modulation
High Channel, 2659.98 MHz



60 MHz Base Channel Bandwidth
57.5 MHz Slim Carrier Bandwidth
16QAM Modulation
Middle Channel, 2592.99 MHz



60 MHz Base Channel Bandwidth
57.5 MHz Slim Carrier Bandwidth
64QAM Modulation
Middle Channel, 2592.99 MHz

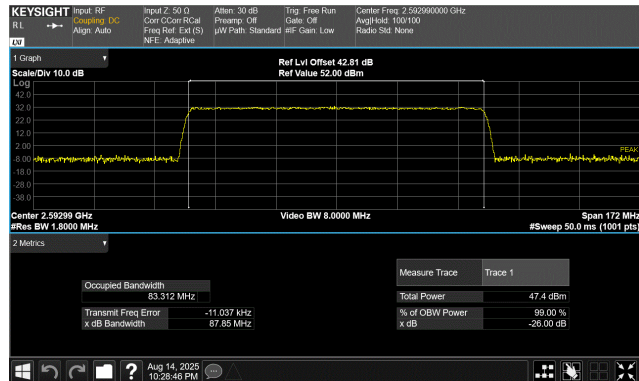


60 MHz Base Channel Bandwidth
57.5 MHz Slim Carrier Bandwidth
256QAM Modulation
Middle Channel, 2592.99 MHz

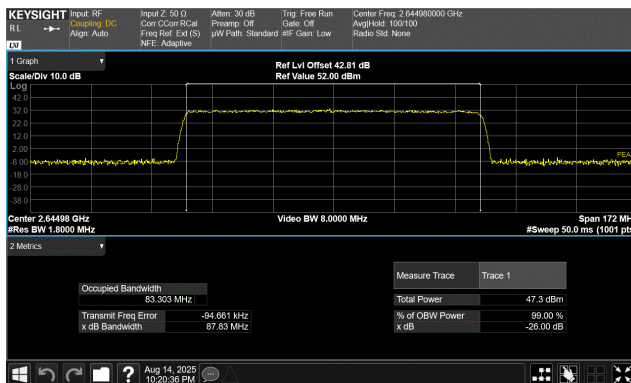
OCCUPIED BANDWIDTH



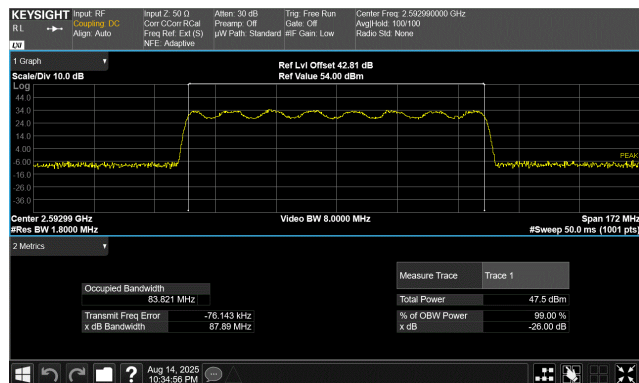
90 MHz Base Channel Bandwidth
86.0 MHz Slim Carrier Bandwidth
QPSK Modulation
Low Channel, 2541.00 MHz



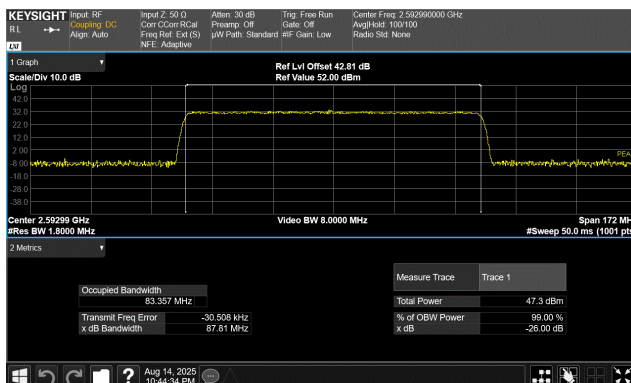
90 MHz Base Channel Bandwidth
86.0 MHz Slim Carrier Bandwidth
QPSK Modulation
Middle Channel, 2592.99 MHz



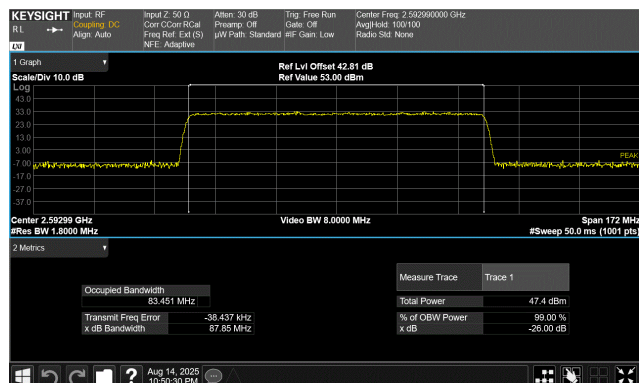
90 MHz Base Channel Bandwidth
86.0 MHz Slim Carrier Bandwidth
QPSK Modulation
High Channel, 2644.98 MHz



90 MHz Base Channel Bandwidth
86.0 MHz Slim Carrier Bandwidth
16QAM Modulation
Middle Channel, 2592.99 MHz



90 MHz Base Channel Bandwidth
86.0 MHz Slim Carrier Bandwidth
64QAM Modulation
Middle Channel, 2592.99 MHz



90 MHz Base Channel Bandwidth
86.0 MHz Slim Carrier Bandwidth
256QAM Modulation
Middle Channel, 2592.99 MHz

BAND EDGE COMPLIANCE

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 spurious RF conducted emissions at the edges of the authorized bands were measured with the EUT set to low and high transmit frequencies in the available band. The channels closest to the band edges were selected. The EUT was transmitting at the data rate(s) listed in the datasheet. The method described in ANSI C63.26 paragraph 5.7 and KDB 971168D01v02 paragraph 6 was used to make these measurements.

The AVHA antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as referenced within the "Output Power- All Ports" report section of the original NOKI0079.1 certification testing). Antenna port 1 was selected to perform this testing as allowed by ANSI C63.26 paragraphs 5.2.5.3, 5.7.2i and 6.4.

Per section 27.53(m)(2), the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The AVHA AirScale MAA operates as a 64 port MIMO transmitter. The limit is adjusted to -31.1 dBm [-13 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).

All Measurements were synchronized with the measurement receiver - gated with external trigger input (frame clock (100Hz) provided by the system module. Duty cycle correction is not needed for this testing since the transmit "on" time is synchronized with the measurement receiver.

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.

BAND EDGE COMPLIANCE



EUT:	Airscale Base Transceiver Station Radio Unit Model AVHA	Work Order:	NOKI0087
Serial Number:	L1252500217	Date:	2025-08-19
Customer:	Nokia Solutions and Networks	Temperature:	27.7°C
Attendees:	Mitch Hill, John Rattanavong	Relative Humidity:	45.7%
Customer Project:	None	Bar. Pressure (PMSL):	1012 mbar
Tested By:	Jarrold Brenden	Job Site:	PT14
Power:	54VDC	Configuration:	NOKI0087-2

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

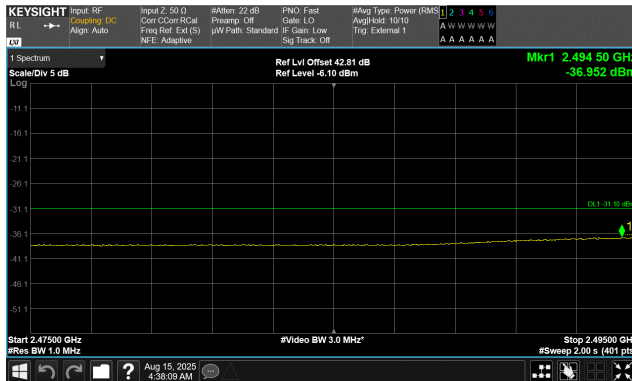
TEST RESULTS

	Frequency Range	Frequency (MHz)	Value (dBm)	Limit (dBm)	Result
Port 1					
QPSK Modulation					
33.0 MHz Slim Carrier Bandwidth					
Low Channel, 2516.01 MHz	2475 MHz - 2495 MHz	2494.5	-36.952	-31.1	Pass
	2495 MHz - 2501 MHz	2496	-41.402	-31.1	Pass
High Channel, 2670.00 MHz	2685 MHz - 2691 MHz	2690	-38.361	-31.1	Pass
	2691 MHz - 2711 MHz	2691.1	-34.761	-31.1	Pass
34.0 MHz Slim Carrier Bandwidth					
Low Channel, 2516.01 MHz	2475 MHz - 2495 MHz	2494.85	-36.643	-31.1	Pass
	2495 MHz - 2500 MHz	2496	-39.896	-31.1	Pass
High Channel, 2670.00 MHz	2686 MHz - 2691 MHz	2690	-38.045	-31.1	Pass
	2691 MHz - 2711 MHz	2691	-34.517	-31.1	Pass
38.0 MHz Slim Carrier Bandwidth					
Low Channel, 2516.01 MHz	2475 MHz - 2495 MHz	2494.9	-36.403	-31.1	Pass
	2495 MHz - 2498 MHz	2496	-40.471	-31.1	Pass
High Channel, 2670.00 MHz	2688 MHz - 2691 MHz	2690	-36.97	-31.1	Pass
	2691 MHz - 2711 MHz	2691	-34.641	-31.1	Pass
38.5 MHz Slim Carrier Bandwidth					
Low Channel, 2516.01 MHz	2475 MHz - 2495 MHz	2494.5	-36.504	-31.1	Pass
	2495 MHz - 2497 MHz	2496	-40.054	-31.1	Pass
High Channel, 2670.00 MHz	2689 MHz - 2691 MHz	2690	-37.799	-31.1	Pass
	2691 MHz - 2711 MHz	2691.05	-34.731	-31.1	Pass

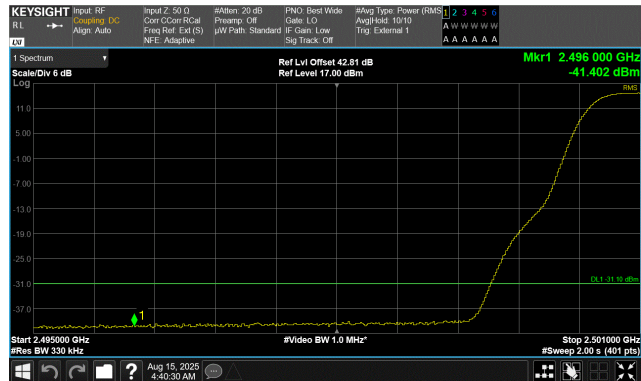
BAND EDGE COMPLIANCE

	Frequency Range	Frequency (MHz)	Value (dBm)	Limit (dBm)	Result
44.0 MHz Slim Channel Bandwidth					
Low Channel, 2521.02 MHz	2475 MHz - 2495 MHz	2494.45	-36.095	-31.1	Pass
	2495 MHz - 2500 MHz	2496	-38.8	-31.1	Pass
High Channel, 2664.99 MHz	2686 MHz - 2691 MHz	2690	-36.91	-31.1	Pass
	2691 MHz - 2711 MHz	2691.25	-34.68	-31.1	Pass
49.0 MHz Slim Carrier Bandwidth					
Low Channel, 2521.02 MHz	2475 MHz - 2495 MHz	2494.75	-36.392	-31.1	Pass
	2495 MHz - 2497 MHz	2496	-38.259	-31.1	Pass
High Channel, 2664.99 MHz	2689 MHz - 2691 MHz	2690	-36.272	-31.1	Pass
	2691 MHz - 2711 MHz	2691.2	-34.207	-31.1	Pass
49.5 MHz Slim Carrier Bandwidth					
Low Channel, 2521.02 MHz	2475 MHz - 2495 MHz	2494.8	-36.124	-31.1	Pass
	2495 MHz - 2497 MHz	2495.745	-38.148	-31.1	Pass
High Channel, 2664.99 MHz	2689 MHz - 2691 MHz	2690.255	-36.391	-31.1	Pass
	2691 MHz - 2711 MHz	2691.15	-34.089	-31.1	Pass
55.0 MHz Slim Carrier Bandwidth					
Low Channel, 2526.00 MHz	2475 MHz - 2495 MHz	2494.9	-35.848	-31.1	Pass
	2495 MHz - 2499 MHz	2496	-38.165	-31.1	Pass
High Channel, 2659.98 MHz	2687 MHz - 2691 MHz	2690	-35.877	-31.1	Pass
	2691 MHz - 2711 MHz	2691.25	-33.66	-31.1	Pass
57.5 MHz Slim Carrier Bandwidth					
Low Channel, 2526.00 MHz	2475 MHz - 2495 MHz	2494.6	-35.461	-31.1	Pass
	2495 MHz - 2498 MHz	6496	-36.456	-31.1	Pass
High Channel, 2659.98 MHz	2687 MHz - 2691 MHz	2960	-34.771	-31.1	Pass
	2692 MHz - 2711 MHz	2691.4	-33.694	-31.1	Pass
86.0 MHz Slim Carrier Bandwidth					
Low Channel, 2541.00 MHz	2475 MHz - 2495 MHz	2495	-35.501	-31.1	Pass
	2495 MHz - 2498 MHz	2496	-35.643	-31.1	Pass
High Channel, 2644.98 MHz	2687 MHz - 2691 MHz	2690	-33.942	-31.1	Pass
	2691 MHz - 2711 MHz	2691.15	-34.222	-31.1	Pass

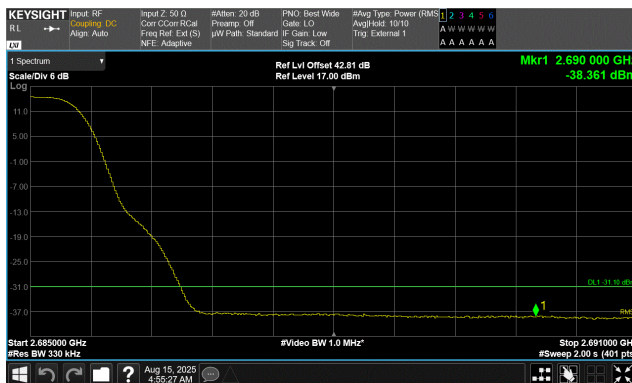
BAND EDGE COMPLIANCE



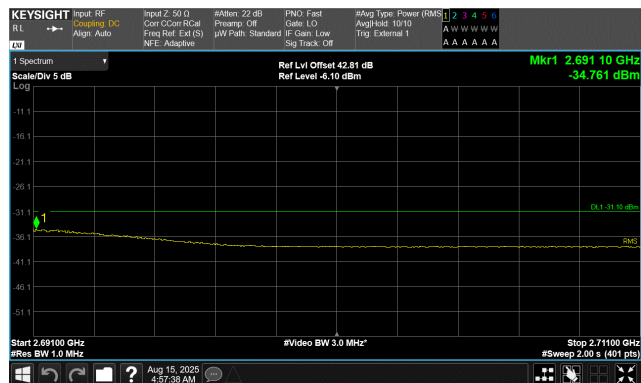
QPSK Modulation
33.0 MHz Slim Carrier Bandwidth
Low Channel, 2516.01 MHz
2475 MHz - 2495 MHz



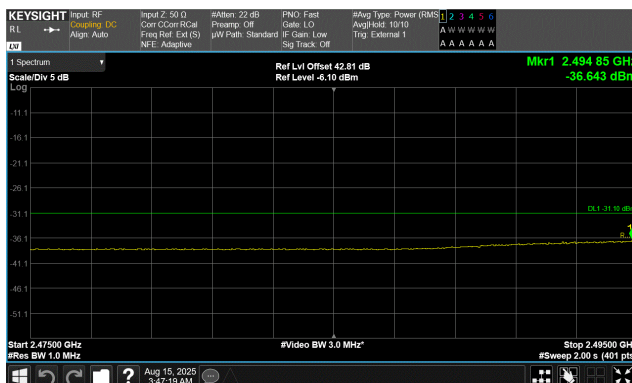
QPSK Modulation
33.0 MHz Slim Carrier Bandwidth
Low Channel, 2516.01 MHz
2495 MHz - 2501 MHz



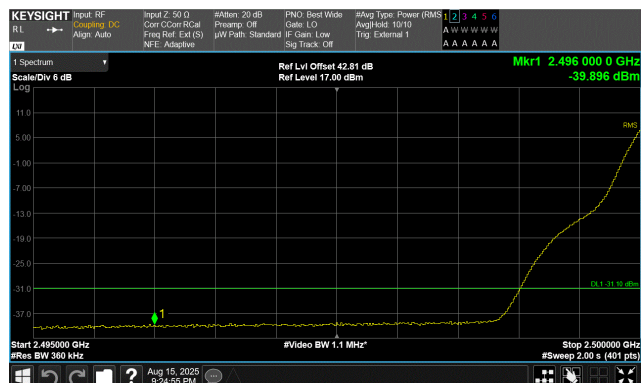
QPSK Modulation
33.0 MHz Slim Carrier Bandwidth
High Channel, 2670.00 MHz
2685 MHz - 2691 MHz



QPSK Modulation
33.0 MHz Slim Carrier Bandwidth
High Channel, 2670.00 MHz
2691 MHz - 2711 MHz

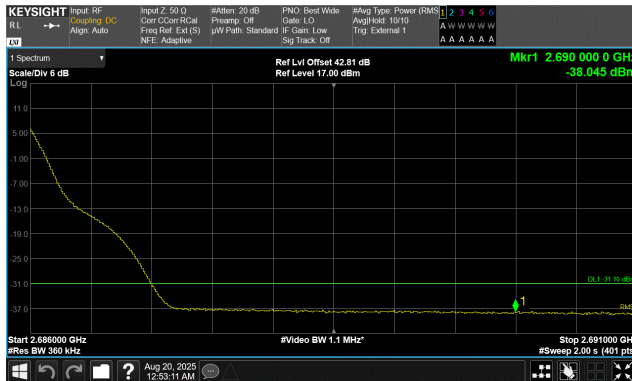


QPSK Modulation
34.0 MHz Slim Carrier Bandwidth
Low Channel, 2516.01 MHz
2475 MHz - 2495 MHz

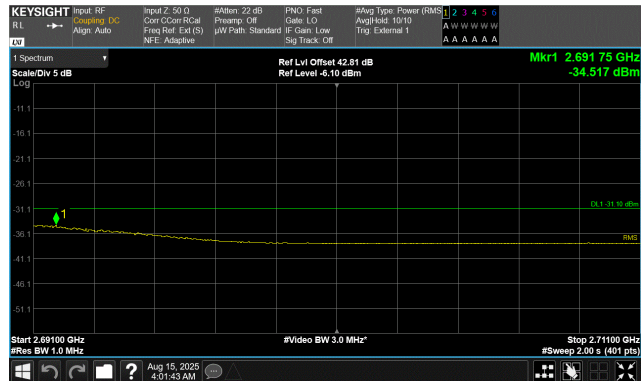


QPSK Modulation
34.0 MHz Slim Carrier Bandwidth
Low Channel, 2516.01 MHz
2495 MHz - 2500 MHz

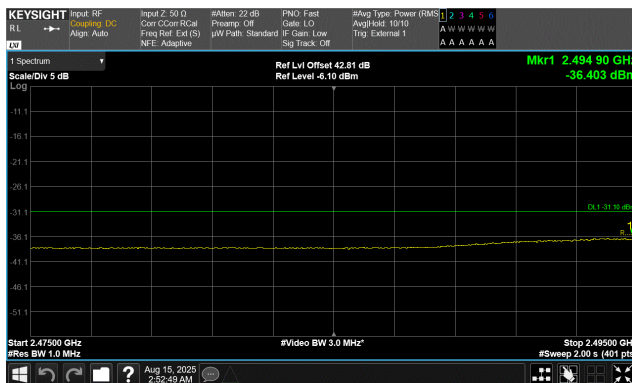
BAND EDGE COMPLIANCE



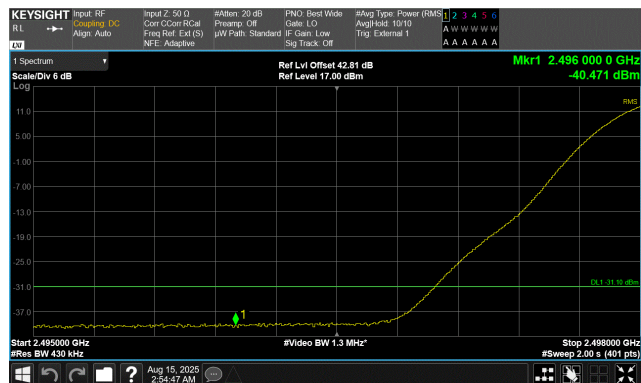
QPSK Modulation
34.0 MHz Slim Carrier Bandwidth
High Channel, 2670.00 MHz
2686 MHz - 2691 MHz



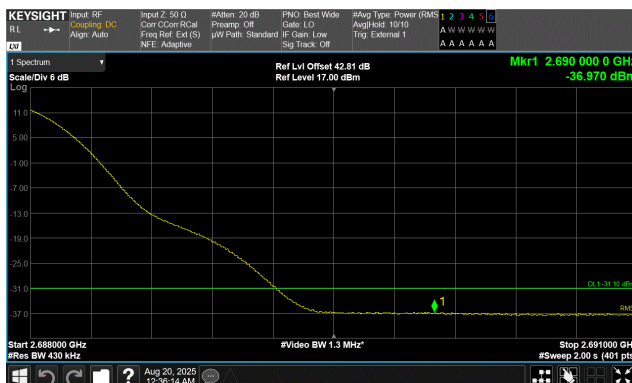
QPSK Modulation
34.0 MHz Slim Carrier Bandwidth
High Channel, 2670.00 MHz
2691 MHz - 2711 MHz



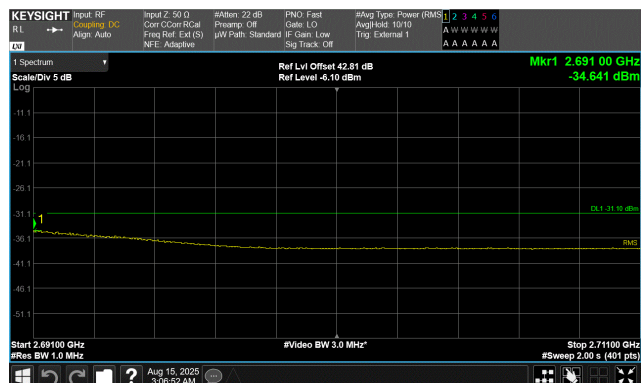
QPSK Modulation
38.0 MHz Slim Carrier Bandwidth
Low Channel, 2516.01 MHz
2475 MHz - 2495 MHz



QPSK Modulation
38.0 MHz Slim Carrier Bandwidth
Low Channel, 2516.01 MHz
2495 MHz - 2498 MHz

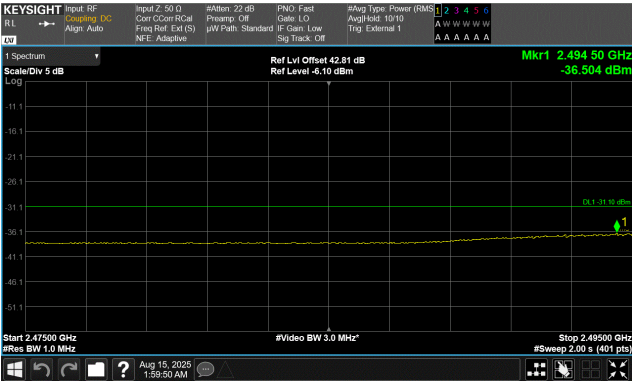


QPSK Modulation
38.0 MHz Slim Carrier Bandwidth
High Channel, 2670.00 MHz
2688 MHz - 2691 MHz

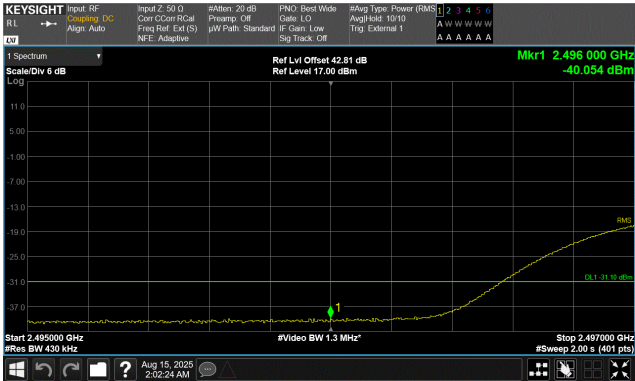


QPSK Modulation
38.0 MHz Slim Carrier Bandwidth
High Channel, 2670.00 MHz
2691 MHz - 2711 MHz

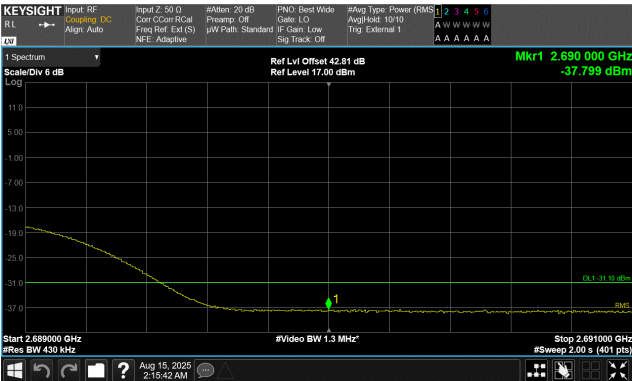
BAND EDGE COMPLIANCE



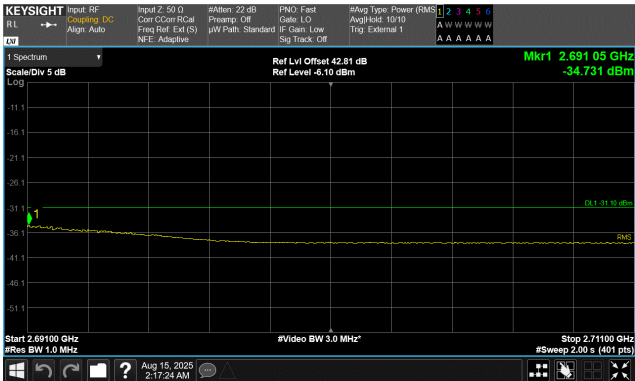
QPSK Modulation
38.5 MHz Slim Carrier Bandwidth
Low Channel, 2516.01 MHz
2475 MHz - 2495 MHz



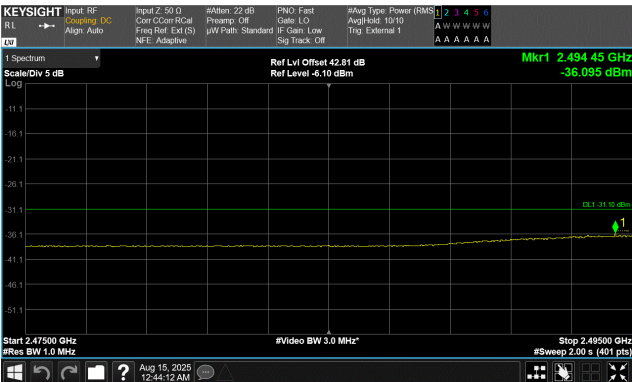
QPSK Modulation
38.5 MHz Slim Carrier Bandwidth
Low Channel, 2516.01 MHz
2495 MHz - 2497 MHz



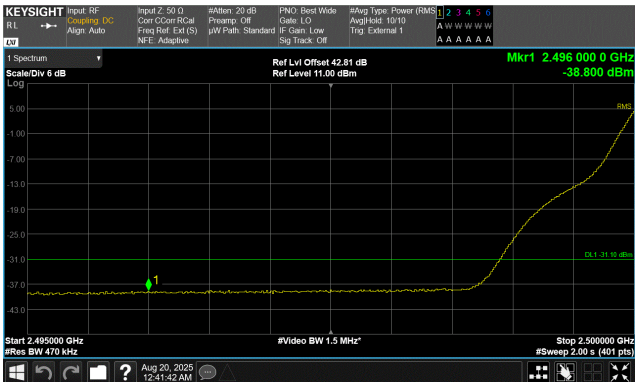
QPSK Modulation
38.5 MHz Slim Carrier Bandwidth
High Channel, 2670.00 MHz
2689 MHz - 2691 MHz



QPSK Modulation
38.5 MHz Slim Carrier Bandwidth
High Channel, 2670.00 MHz
2691 MHz - 2711 MHz

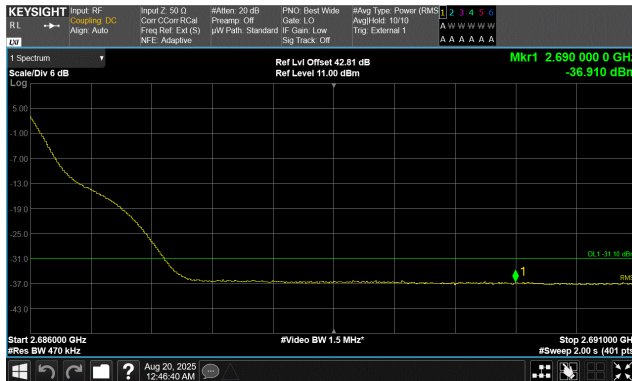


QPSK Modulation
44.0 MHz Slim Carrier Bandwidth
Low Channel, 2521.02 MHz
2475 MHz - 2495 MHz

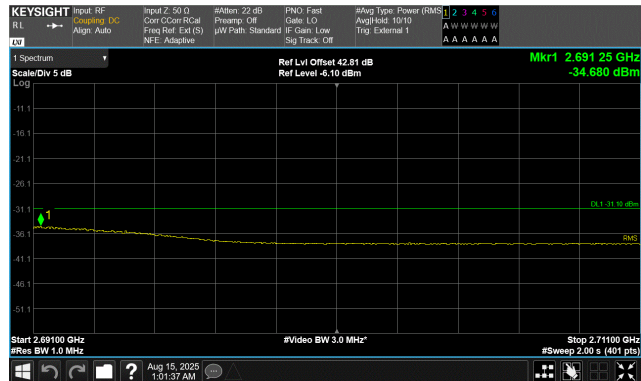


QPSK Modulation
44.0 MHz Slim Carrier Bandwidth
Low Channel, 2521.02 MHz
2495 MHz - 2500 MHz

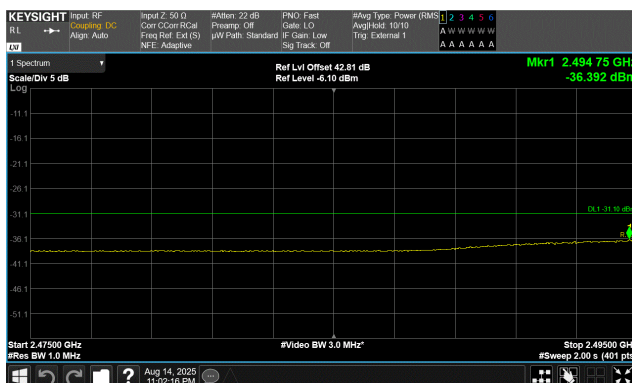
BAND EDGE COMPLIANCE



QPSK Modulation
44.0 MHz Slim Carrier Bandwidth
High Channel, 2664.99 MHz
2686 MHz - 2691 MHz



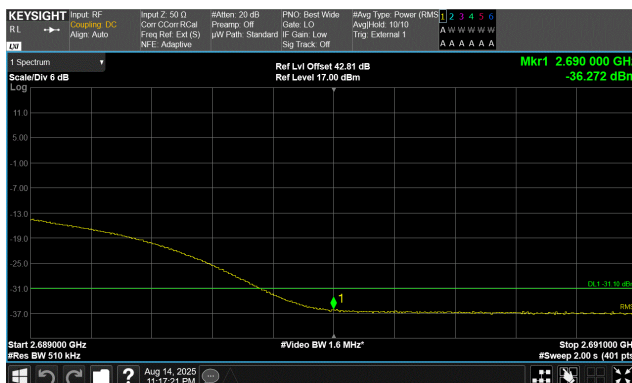
QPSK Modulation
44.0 MHz Slim Carrier Bandwidth
High Channel, 2664.99 MHz
2691 MHz - 2711 MHz



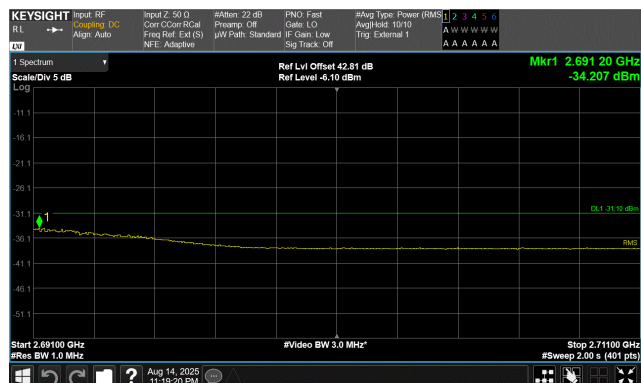
QPSK Modulation
49.0 MHz Slim Carrier Bandwidth
Low Channel, 2521.02 MHz
2475 MHz - 2495 MHz



QPSK Modulation
49.0 MHz Slim Carrier Bandwidth
Low Channel, 2521.02 MHz
2495 MHz - 2497 MHz

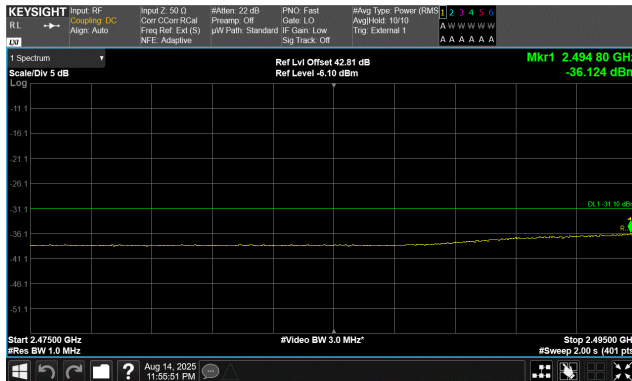


QPSK Modulation
49.0 MHz Slim Carrier Bandwidth
High Channel, 2664.99 MHz
2689 MHz - 2691 MHz

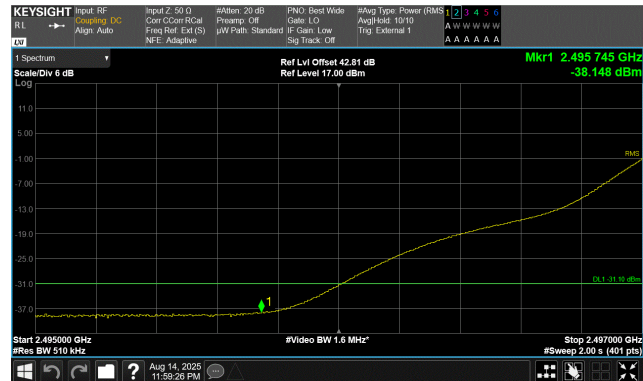


QPSK Modulation
49.0 MHz Slim Carrier Bandwidth
High Channel, 2664.99 MHz
2691 MHz - 2711 MHz

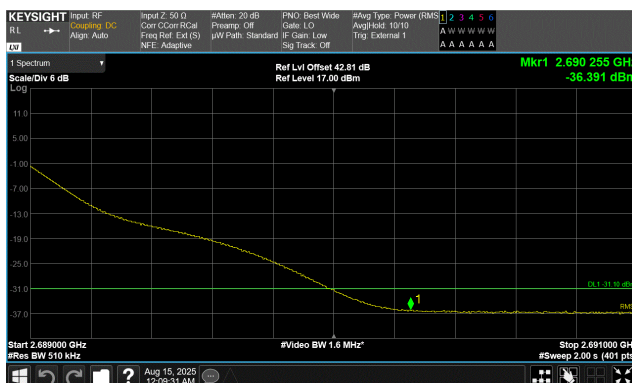
BAND EDGE COMPLIANCE



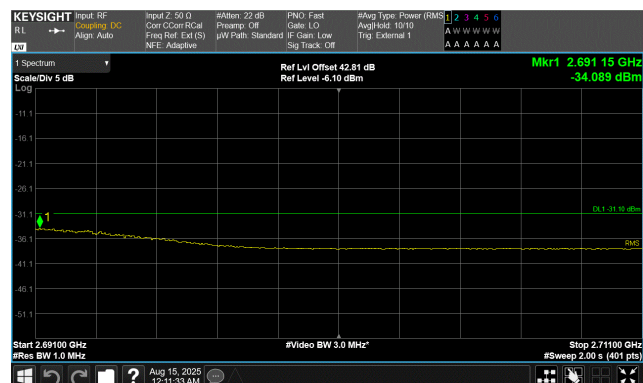
QPSK Modulation
49.5 MHz Slim Carrier Bandwidth
Low Channel, 2521.02 MHz
2475 MHz - 2495 MHz



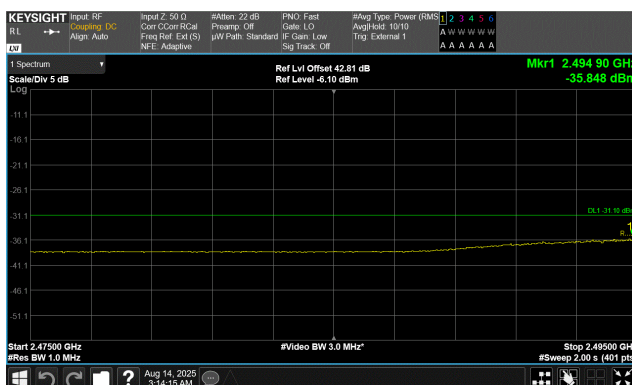
QPSK Modulation
49.5 MHz Slim Carrier Bandwidth
Low Channel, 2521.02 MHz
2495 MHz - 2497 MHz



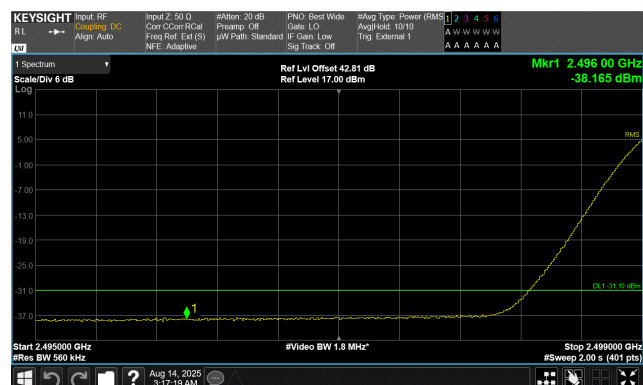
QPSK Modulation
49.5 MHz Slim Carrier Bandwidth
High Channel, 2664.99 MHz
2689 MHz - 2691 MHz



QPSK Modulation
49.5 MHz Slim Carrier Bandwidth
High Channel, 2664.99 MHz
2691 MHz - 2711 MHz

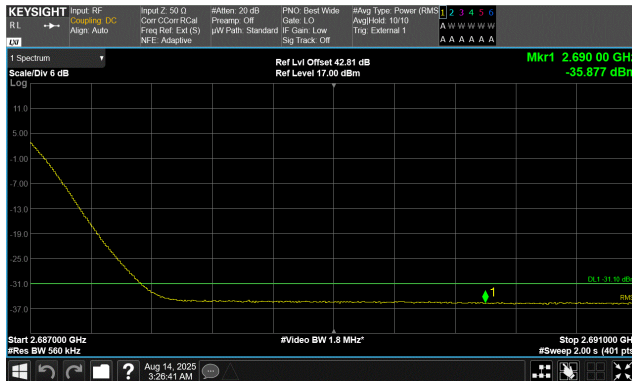


QPSK Modulation
55.0 MHz Slim Carrier Bandwidth
Low Channel, 2526.00 MHz
2475 MHz - 2495 MHz

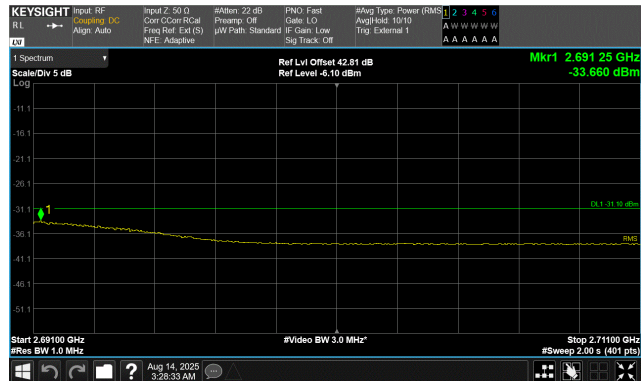


QPSK Modulation
55.0 MHz Slim Carrier Bandwidth
Low Channel, 2526.00 MHz
2495 MHz - 2499 MHz

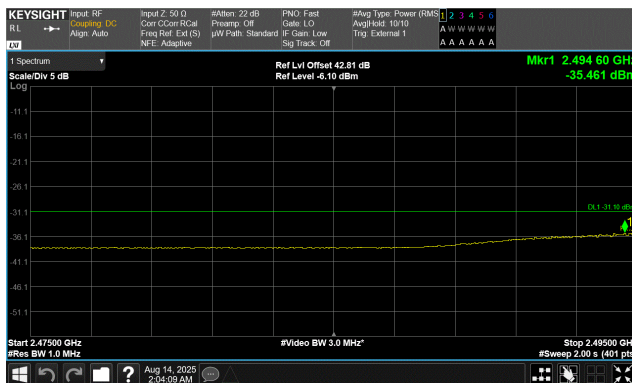
BAND EDGE COMPLIANCE



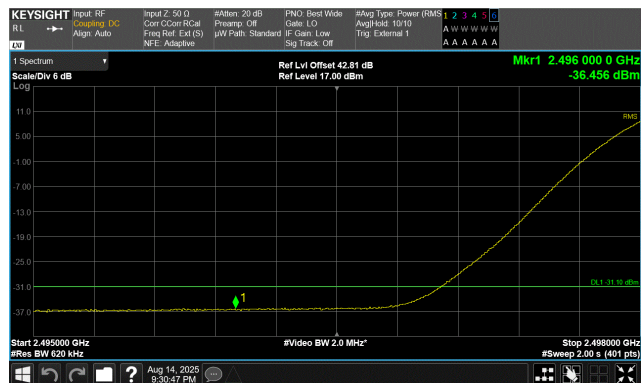
QPSK Modulation
55.0 MHz Slim Carrier Bandwidth
High Channel, 2659.98 MHz
2687 MHz - 2691 MHz



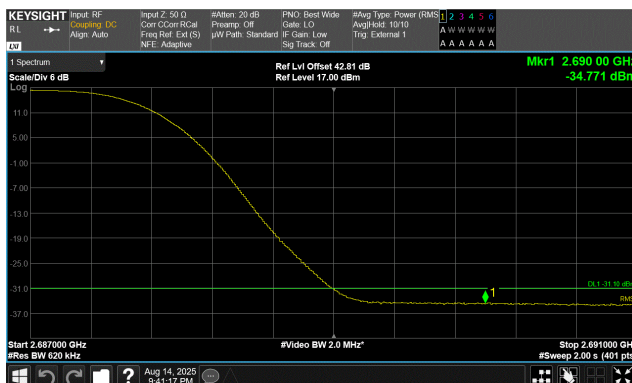
QPSK Modulation
55.0 MHz Slim Carrier Bandwidth
High Channel, 2659.98 MHz
2691 MHz - 2711 MHz



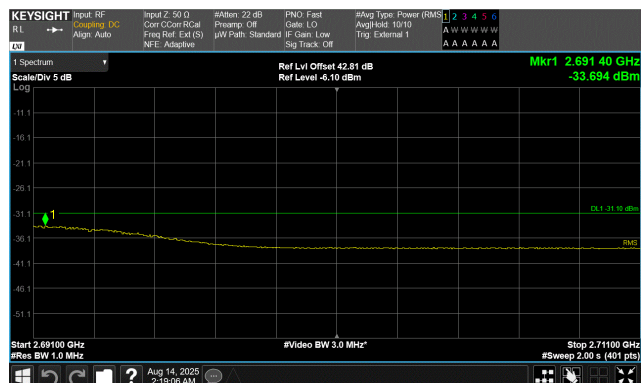
QPSK Modulation
57.5 MHz Slim Carrier Bandwidth
Low Channel, 2526.00 MHz
2475 MHz - 2495 MHz



QPSK Modulation
57.5 MHz Slim Carrier Bandwidth
Low Channel, 2526.00 MHz
2495 MHz - 2498 MHz

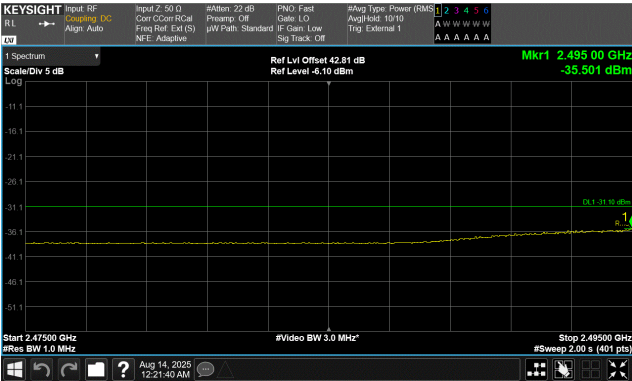


QPSK Modulation
57.5 MHz Slim Carrier Bandwidth
High Channel, 2659.98 MHz
2687 MHz - 2691 MHz

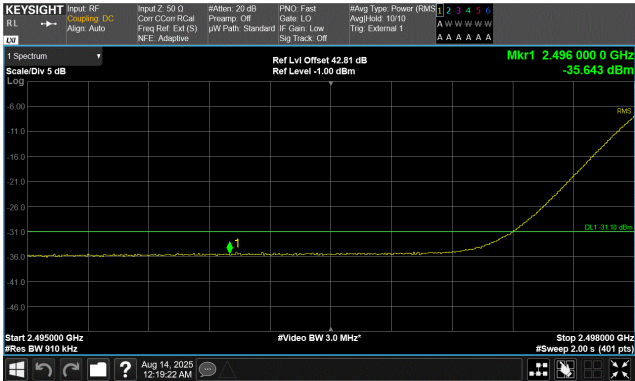


QPSK Modulation
57.5 MHz Slim Carrier Bandwidth
High Channel, 2659.98 MHz
2692 MHz - 2711 MHz

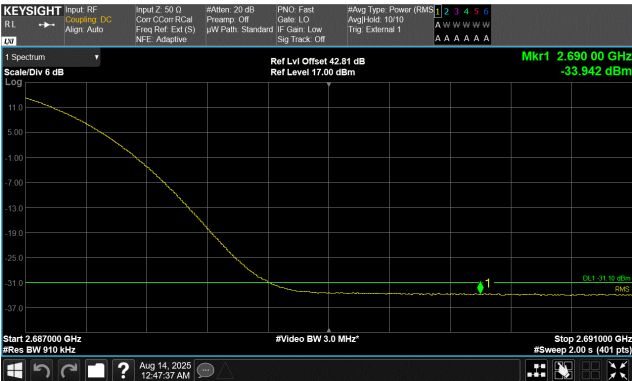
BAND EDGE COMPLIANCE



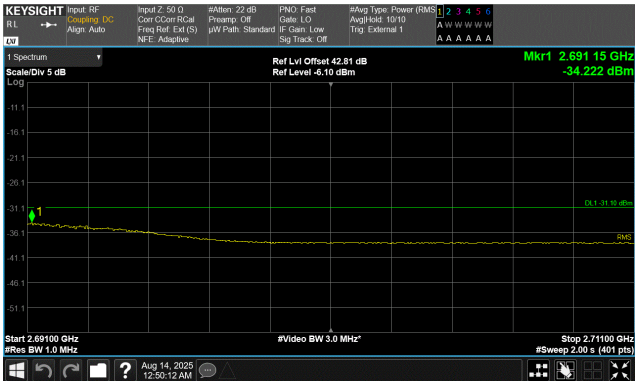
QPSK Modulation
86.0 MHz Slim Carrier Bandwidth
Low Channel, 2541.00 MHz
2475 MHz - 2495 MHz



QPSK Modulation
86.0 MHz Slim Carrier Bandwidth
Low Channel, 2541.00 MHz
2495 MHz - 2498 MHz



QPSK Modulation
86.0 MHz Slim Carrier Bandwidth
High Channel, 2644.98 MHz
2687 MHz - 2691 MHz



QPSK Modulation
86.0 MHz Slim Carrier Bandwidth
High Channel, 2644.98 MHz
2691 MHz - 2711 MHz

BAND EDGE COMPLIANCE - MULTICARRIER



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 spurious RF conducted emissions at the edges of the authorized bands were measured with the EUT set to low and high transmit frequencies in the available band. The channels closest to the band edges were selected. The EUT was transmitting at the data rate(s) listed in the datasheet. The method described in ANSI C63.26 paragraph 5.7 and KDB 971168D01v02 paragraph 6 was used to make these measurements.

The AVHA antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as referenced within the "Output Power- All Ports" report section of the original NOKI0079.1 certification testing). Antenna port 1 was selected to perform this testing as allowed by ANSI C63.26 paragraphs 5.2.5.3, 5.7.2i and 6.4.

Per section 27.53(m)(2), the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The AVHA AirScale MAA operates as a 64 port MIMO transmitter. The limit is adjusted to -31.1 dBm [-13 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).

All Measurements were synchronized with the measurement receiver - gated with external trigger input (frame clock (100Hz) provided by the system module. Duty cycle correction is not needed for this testing since the transmit "on" time is synchronized with the measurement receiver.

Multicarrier test cases have been developed as shown below:

- a) *Multicarrier Test Case 1:* Four contiguous Slim 33MHz carriers with minimum spacing between carrier frequencies at the lower band edge (2516.01MHz, 2549.01MHz, 2582.01, 2615.01) (ARFCN=503202, 509802, 516402, 52302). The smallest channel bandwidth is selected to maximize carrier power spectral density. The maximum number of carriers per radio is 4. The carriers are operated at maximum power per Multi Slim carrier [1.29W/ 31.1dBm].
- b) *Multicarrier Test Case 2:* Four contiguous Slim 33MHz carriers with minimum spacing between carrier frequencies at the upper band edge (2571MHz, 2604MHz, 2637MHz, 2670MHz) (ARFCN=514200, 520800, 527400, 534000). The smallest channel bandwidth is selected to maximize carrier power spectral density. The carriers are operated at maximum power per Multi Slim carrier [1.29W/ 31.1dBm].
- c) *Multicarrier Test Case 3:* Two contiguous Slim 33MHz Carriers with minimum spacing between carrier frequencies at the lower band edge (2516.01MHz, 2549.01MHz) (ARFCN=532998, 526398) and two Slim 33MHz carriers at the Upper band edge (2653.5MHz, 2670MHz) (ARFCN=527400, 534000) at the top channel. The carriers are operated at maximum power per Multi Slim carrier [1.29W/ 31.1dBm].
- d) *Multicarrier Test Case 4:* Two Non-contiguous carriers with one Slim 33MHz Carrier (2516.01MHz) (ARFCN=503202) at the bottom channel and one Slim 33MHz Carrier (2670.0MHz) (ARFCN=534000) at the top channel (maximum spacing between carriers). The carriers are operated at maximum power per Multi Slim carrier [2.58W/ 34.1dBm].
- e) *Multicarrier Test Case 5:* Two Non-contiguous carriers with one Slim 86MHz Carrier (2541MHz) (ARFCN=508200) at the bottom channel and one Slim 86MHz Carrier (2644.98MHz) (ARFCN=528996) at the top channel (maximum spacing between carriers). The carriers are operated at maximum power per Multi Slim carrier [2.99W/ 34.8dBm].

BAND EDGE COMPLIANCE - MULTICARRIER



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.

BAND EDGE COMPLIANCE - MULTICARRIER



EUT:	Airscale Base Transceiver Station Radio Unit Model AVHA	Work Order:	NOKI0087
Serial Number:	L1252500217	Date:	2025-08-18
Customer:	Nokia Solutions and Networks	Temperature:	27.8°C
Attendees:	Mitch Hill, John Rattanavong	Relative Humidity:	45.2%
Customer Project:	None	Bar. Pressure (PMSL):	1015 mbar
Tested By:	Jarrold Brenden	Job Site:	PT14
Power:	54VDC	Configuration:	NOKI0087-2

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

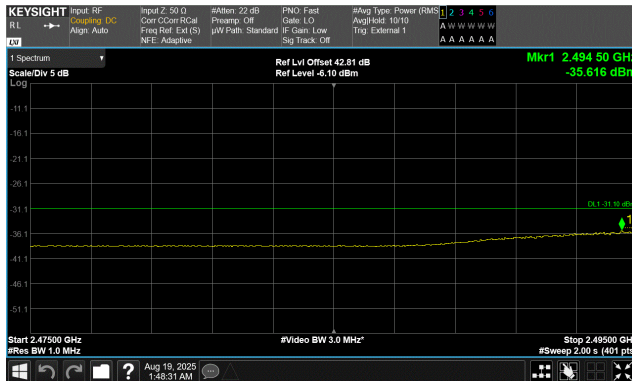
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Tested By

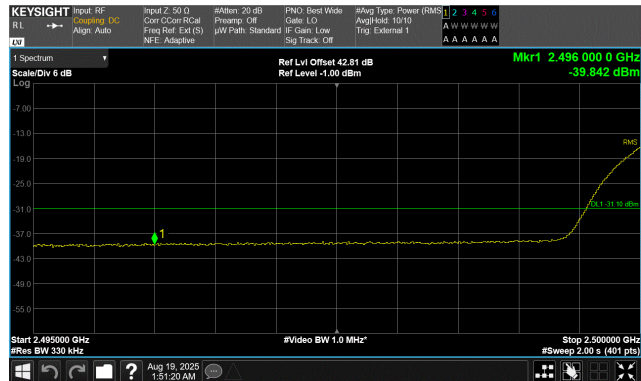
TEST RESULTS

	Frequency Range	Frequency (MHz)	Value (dBm)	Limit (dBm)	Result
Port 1					
QPSK Modulation					
Multicarrier Test Case 1					
	2475 MHz - 2495 MHz	2494.5	-35.616	-31.1	Pass
	2495 MHz - 2500 MHz	2496	-39.842	-31.1	Pass
Multicarrier Test Case 2					
	2686 MHz - 2691 MHz	2690	-39.45	-31.1	Pass
	2691 MHz - 2711 MHz	2691.15	-35.909	-31.1	Pass
Multicarrier Test Case 3					
	2475 MHz - 2495 MHz	2494.9	-33.837	-31.1	Pass
	2495 MHz - 2500 MHz	2496	-37.837	-31.1	Pass
	2686 MHz - 2691 MHz	2690	-39.054	-31.1	Pass
	2691 MHz - 2711 MHz	2691.3	-35.199	-31.1	Pass
Multicarrier Test Case 4					
	2475 MHz - 2495 MHz	2494.95	-32.79	-31.1	Pass
	2495 MHz - 2500 MHz	2496	-36.974	-31.1	Pass
	2686 MHz - 2691 MHz	2690	-37.455	-31.1	Pass
	2691 MHz - 2711 MHz	2691.05	-33.146	-31.1	Pass
Multicarrier Test Case 5					
	2475 MHz - 2495 MHz	2494.9	-32.483	-31.1	Pass
	2495 MHz - 2498 MHz	2496	-32.872	-31.1	Pass
	2687 MHz - 2691 MHz	2690	-34.21	-31.1	Pass
	2691 MHz - 2711 MHz	2694.1	-33.758	-31.1	Pass

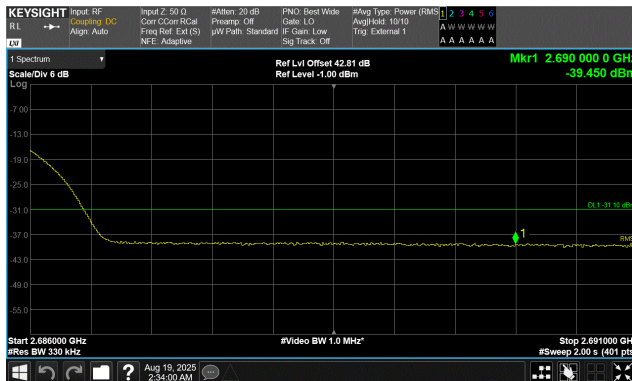
BAND EDGE COMPLIANCE - MULTICARRIER



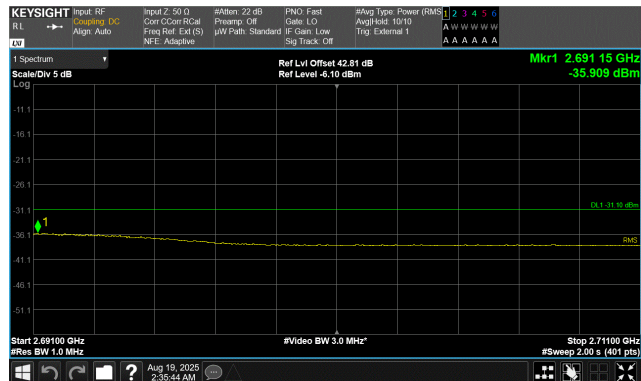
QPSK Modulation
Multicarrier Test Case 1
2475 MHz - 2495 MHz



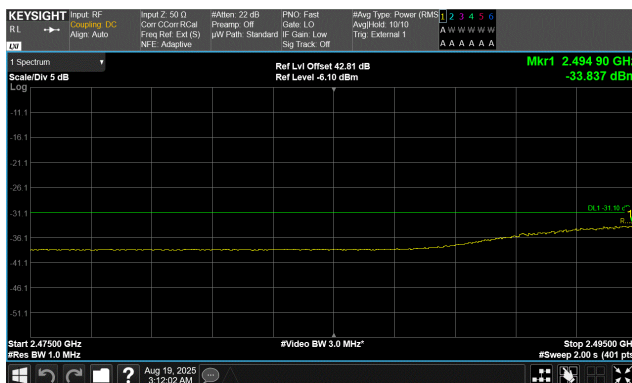
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Multicarrier Test Case 1
2495 MHz - 2500 MHz



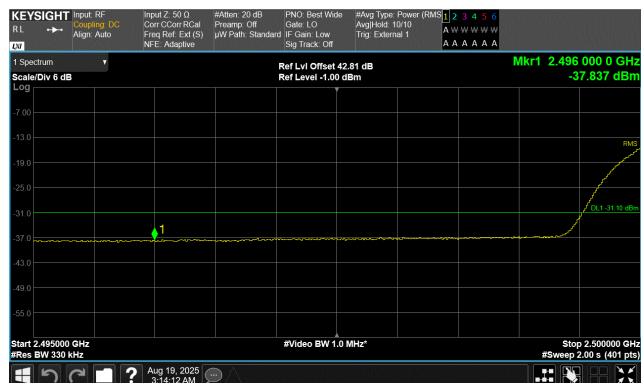
QPSK Modulation
Multicarrier Test Case 2
2686 MHz - 2691 MHz



QPSK Modulation
Multicarrier Test Case 2
2691 MHz - 2711 MHz



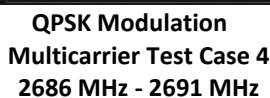
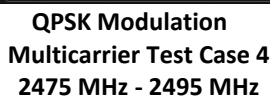
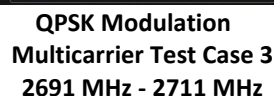
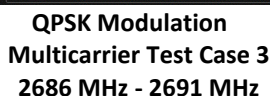
QPSK Modulation
Multicarrier Test Case 3
2475 MHz - 2495 MHz



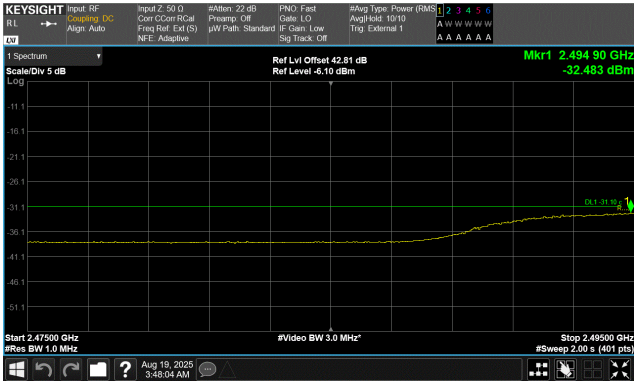
QPSK Modulation
Multicarrier Test Case 3
2495 MHz - 2500 MHz



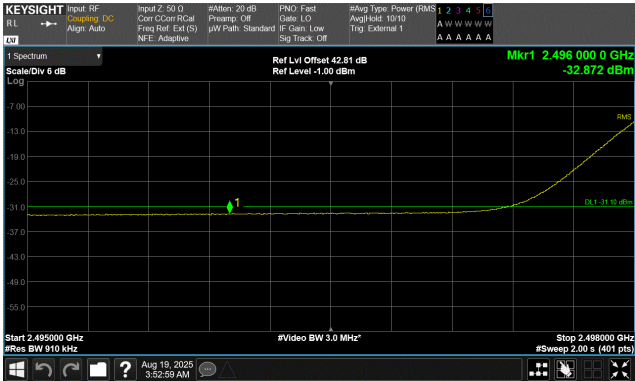
element
TbtTx 2025.05.09
WTD.2025.07.14



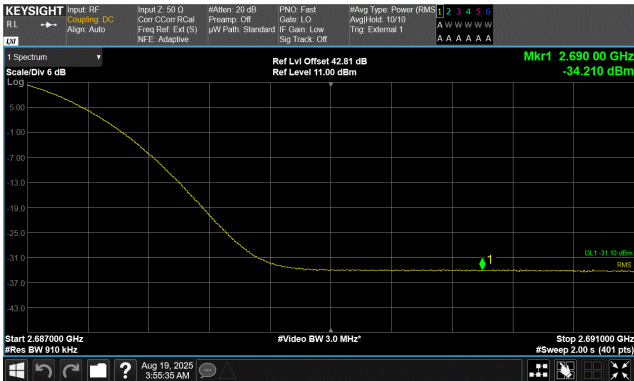
BAND EDGE COMPLIANCE - MULTICARRIER



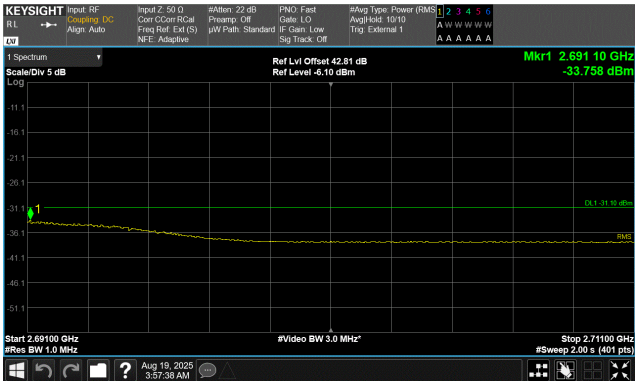
QPSK Modulation
Multicarrier Test Case 5
2475 MHz - 2495 MHz



QPSK Modulation
Multicarrier Test Case 5
2495 MHz - 2498 MHz



QPSK Modulation
Multicarrier Test Case 5
2687 MHz - 2691 MHz



QPSK Modulation
Multicarrier Test Case 5
2691 MHz - 2711 MHz

SPURIOUS CONDUCTED EMISSIONS

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 four different attenuation configurations which continue 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 27 GHz. The conducted power of spurious emissions, up to the 10th harmonic of the transmit frequency, were investigated.

RF conducted emissions testing was performed on only one port. The AVHA antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as referenced with in "Output Power – All Ports" report section of the original NOKI0079.1 certification testing). 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 measurement is approximately 27 GHz (2685*10) for the n41 frequency band.

Per section 27.53(m)(2), the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The limit is adjusted to -31.1 dBm [-13 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 limit for the 9kHz to 150kHz frequency range was adjusted to -61.1dBm to correct for a spectrum analyzer RBW of 1kHz versus required RBW of 1MHz [i.e.: -61.1dBm = -31.1dBm -10log(1MHz/1kHz)]. The limit for the 150kHz to 20MHz frequency range was adjusted to -51.1dBm to correct for a spectrum analyzer RBW of 10kHz versus required RBW of 1MHz [i.e.: -51.1dBm = -31.1dBm -10log(1MHz/10kHz)]. The required limit of -31.1dBm with a RBW of ≥ 1 MHz was used for all other frequency ranges.

All Measurements were synchronized with the measurement receiver - gated with external trigger input (frame clock (100Hz) provided by the system module. Duty cycle correction is not needed for this testing since the transmit "on" time is synchronized with the measurement receiver.

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

EUT:	Airscale Base Transceiver Station Radio Unit Model AVHA	Work Order:	NOKI0087
Serial Number:	L1252500217	Date:	2025-08-19
Customer:	Nokia Solutions and Networks	Temperature:	27.7°C
Attendees:	Mitch Hill, John Rattanavong	Relative Humidity:	45.6%
Customer Project:	None	Bar. Pressure (PMSL):	1012 mbar
Tested By:	Jarrold Brenden	Job Site:	PT14
Power:	54VDC	Configuration:	NOKI0087-1 NOKI0087-2 NOKI0087-3 NOKI0087-4

COMMENTS

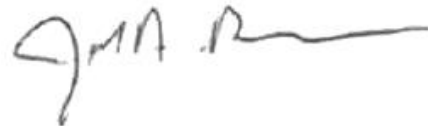
All losses in the measurement path were accounted for in the reference level offset; attenuators, filters, cables, and DC blocks.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass



Tested By

TEST RESULTS

	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
Port 1					
40 MHz Base Channel Bandwidth					
33.0 MHz Slim Carrier Bandwidth					
QPSK Modulation					
Middle Channel, 2592.99 MHz	9 kHz - 150 kHz	0.01	-71.69	-61.1	Pass
	150 kHz - 20 MHz	0.41	-75.68	-51.1	Pass
	20 MHz - 4 GHz	3829.86	-37.21	-31.1	Pass
	4 GHz - 18 GHz	11403.67	-43.22	-31.1	Pass
	18 GHz - 27 GHz	26107.2	-39.17	-31.1	Pass
34.0 MHz Slim Carrier Bandwidth					
QPSK Modulation					
Middle Channel, 2592.99 MHz	9 kHz - 150 kHz	0.01	-71.84	-61.1	Pass
	150 kHz - 20 MHz	0.41	-76.75	-51.1	Pass
	20 MHz - 4 GHz	3808.46	-36.97	-31.1	Pass
	4 GHz - 18 GHz	17594.47	-43.58	-31.1	Pass
	18 GHz - 27 GHz	26099.55	-42.88	-31.1	Pass
38.0 MHz Slim Carrier Bandwidth					
QPSK Modulation					
Middle Channel, 2592.99 MHz	9 kHz - 150 kHz	0.01	-71.59	-61.1	Pass
	150 kHz - 20 MHz	0.41	-76.77	-51.1	Pass
	20 MHz - 4 GHz	3811.45	-37.17	-31.1	Pass
	4 GHz - 18 GHz	17623.4	-43.62	-31.1	Pass
	18 GHz - 27 GHz	26340.75	-42.79	-31.1	Pass

SPURIOUS CONDUCTED EMISSIONS

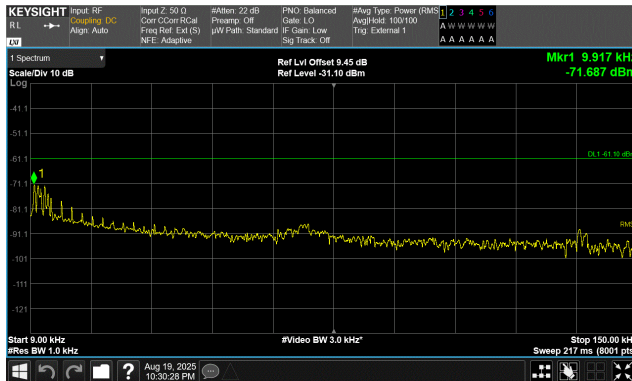
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
38.5 MHz Slim Carrier Bandwidth					
QPSK Modulation					
Middle Channel, 2592.99 MHz	9 kHz - 150 kHz	0.01	-71.61	-61.1	Pass
	150 kHz - 20 MHz	0.41	-76.38	-51.1	Pass
	20 MHz - 4 GHz	3772.64	-37.22	-31.1	Pass
	4 GHz - 18 GHz	17632.27	-43.48	-31.1	Pass
	18 GHz - 27 GHz	26144.55	-42.56	-31.1	Pass
50 MHz Base Channel Bandwidth					
44.0 MHz Slim Carrier Bandwidth					
QPSK Modulation					
Middle Channel, 2592.99 MHz	9 kHz - 150 kHz	0.01	-68.12	-61.1	Pass
	150 kHz - 20 MHz	0.21	-77.33	-51.1	Pass
	20 MHz - 4 GHz	3805.48	-37.83	-31.1	Pass
	4 GHz - 18 GHz	17648.13	-43.4	-31.1	Pass
	18 GHz - 27 GHz	26111.25	-42.55	-31.1	Pass
49.0 MHz Slim Carrier Bandwidth					
QPSK Modulation					
Middle Channel, 2592.99 MHz	9 kHz - 150 kHz	0.01	-68.71	-61.1	Pass
	150 kHz - 20 MHz	0.41	-77.25	-51.1	Pass
	20 MHz - 4 GHz	3808.96	-36.97	-31.1	Pass
	4 GHz - 18 GHz	17649.53	-43.75	-31.1	Pass
	18 GHz - 27 GHz	26111.7	-42.72	-31.1	Pass
49.5 MHz Slim Carrier Bandwidth					
QPSK Modulation					
Middle Channel, 2592.99 MHz	9 kHz - 150 kHz	0.01	-69.06	-61.1	Pass
	150 kHz - 20 MHz	0.41	-76.58	-51.1	Pass
	20 MHz - 4 GHz	3795.03	-36.89	-31.1	Pass
	4 GHz - 18 GHz	17609.4	-42.91	-31.1	Pass
	18 GHz - 27 GHz	26103.6	-42.61	-31.1	Pass
60 MHz Base Channel Bandwidth					
55.0 MHz Slim Carrier Bandwidth					
QPSK Modulation					
Middle Channel, 2592.99 MHz	9 kHz - 150 kHz	0.01	-69.02	-61.1	Pass
	150 kHz - 20 MHz	0.41	-77.07	-51.1	Pass
	20 MHz - 4 GHz	3810.95	-36.87	-31.1	Pass
	4 GHz - 18 GHz	17580.93	-43.35	-31.1	Pass
	18 GHz - 27 GHz	26115.3	-42.61	-31.1	Pass
57.5 MHz Slim Carrier Bandwidth					
QPSK Modulation					
Middle Channel, 2592.99 MHz	9 kHz - 150 kHz	0.01	-68.35	-61.1	Pass
	150 kHz - 20 MHz	0.21	-76.78	-51.1	Pass
	20 MHz - 4 GHz	3787.07	-36.78	-31.1	Pass
	4 GHz - 18 GHz	17652.8	-43.36	-31.1	Pass
	18 GHz - 27 GHz	26353.35	-42.76	-31.1	Pass
90 MHz Base Channel Bandwidth					
86.0 MHz Slim Carrier Bandwidth					
QPSK Modulation					
Middle Channel, 2592.99 MHz	9 kHz - 150 kHz	0.01	-66.54	-61.1	Pass

SPURIOUS CONDUCTED EMISSIONS

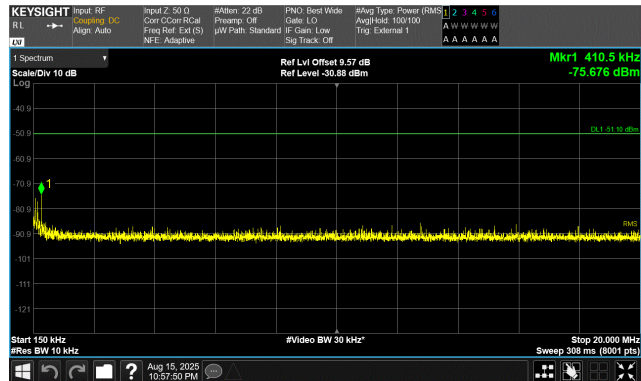


Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
150 kHz - 20 MHz	0.28	-78.02	-51.1	Pass
20 MHz - 4 GHz	3780.6	-36.91	-31.1	Pass
4 GHz - 18 GHz	17600.53	-43.36	-31.1	Pass
18 GHz - 27 GHz	26122.5	-43.05	-31.1	Pass

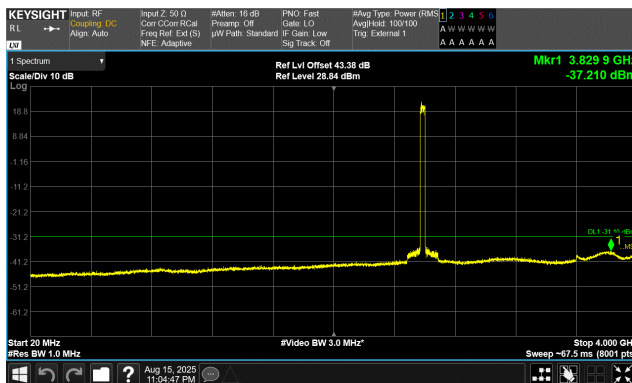
SPURIOUS CONDUCTED EMISSIONS



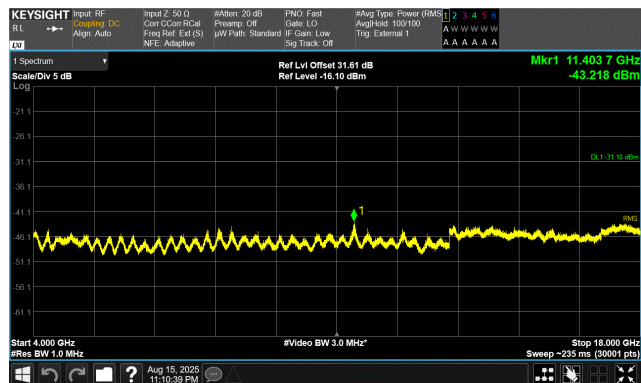
40 MHz Base Channel Bandwidth
33.0 MHz Slim Carrier Bandwidth
QPSK Modulation
Middle Channel, 2592.99 MHz



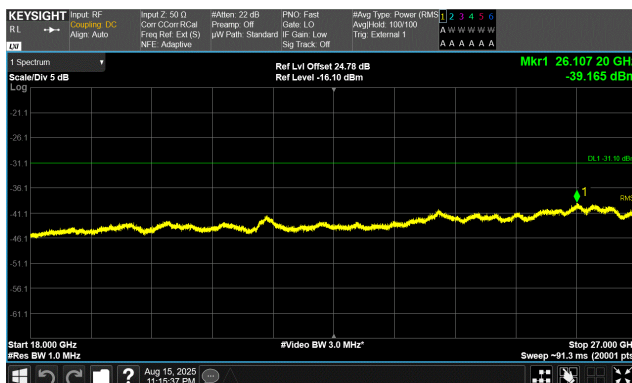
40 MHz Base Channel Bandwidth
33.0 MHz Slim Carrier Bandwidth
QPSK Modulation
Middle Channel, 2592.99 MHz



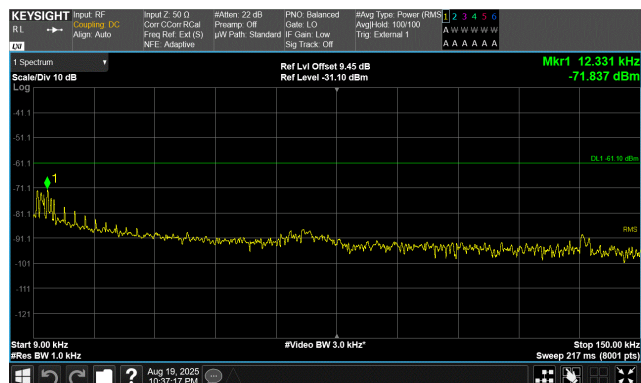
40 MHz Base Channel Bandwidth
33.0 MHz Slim Carrier Bandwidth
QPSK Modulation
Middle Channel, 2592.99 MHz



40 MHz Base Channel Bandwidth
33.0 MHz Slim Carrier Bandwidth
QPSK Modulation
Middle Channel, 2592.99 MHz



40 MHz Base Channel Bandwidth
33.0 MHz Slim Carrier Bandwidth
QPSK Modulation
Middle Channel, 2592.99 MHz



40 MHz Base Channel Bandwidth
34.0 MHz Slim Carrier Bandwidth
QPSK Modulation
Middle Channel, 2592.99 MHz