OCCUPIED BANDWIDTH

element
TbtTx 2025.09.12.2
WTD.2025.08.28.0

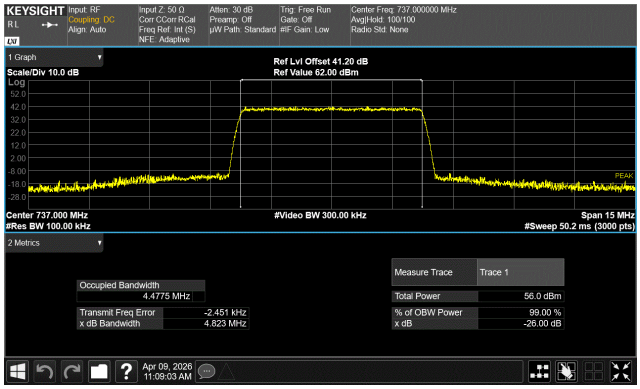
5G NR Band n85
5 MHz Channel Bandwidth
QPSK Modulation
Low Channel, 730.5 MHz

5G NR Band n85
5 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 737.0 MHz

5G NR Band n85
5 MHz Channel Bandwidth
QPSK Modulation
High Channel, 743.5 MHz

5G NR Band n85
5 MHz Channel Bandwidth
16QAM Modulation
Middle Channel, 737.0 MHz

5G NR Band n85
5 MHz Channel Bandwidth
64QAM Modulation
Middle Channel, 737.0 MHz



5G NR Band n85
5 MHz Channel Bandwidth
256QAM Modulation
Middle Channel, 737.0 MHz

BAND EDGE COMPLIANCE

element
TbtTx 2024.05.24.1
WTD.2025.08.28.0

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.

RF conducted emissions testing was performed only on one port. The testing was performed on the same version of hardware (AHLOB) as the original certification test. The AHLOB antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown in the “Output Power-all Ports” report section within this report). Antenna port 1 was selected to preform the testing under this effort as allowed by ANSI C63.26 paragraphs 5.2.5.3, 5.7.2i, and 6.4.

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 method described in ANSI C63.26 paragraph 5.7 and KDB 971168D01v02 paragraph 6 was used to make these measurements.

The spectrum was scanned below the lower band edge and above the higher band edge.

Per RSS-130 4.7 and FCC section 27.53(g) the power of any emissions outside the authorized operating frequency range cannot exceed -13 dBm. The limit is adjusted to -19 [-13 dBm – 10 Log (4)] per FCC KDB 662911D01 v02r01 because BTS may operate as a 4 port MIMO transmitter.

RSS-130 4.7 and FCC section 27.53(g) requires >100 kHz measurement bandwidth for emissions 100 kHz outside of the RRH operating frequency range. RSS-130 4.7 and FCC section 27.53(g) requires >30 kHz measurement bandwidth for emissions between 100 kHz outside of the RRH operating frequency range and band edge of the operating frequency range.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Keysight Technologies	N9030B	AGA	2025-06-09	2026-06-09
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

element
TbtTx 2024.05.24.1
WTD.2025.08.28.0

EUT:	Airscale Base Transceiver Station Remote Radio Head Model AHLOB	Work Order:	NOKI0093
Serial Number:	YK220900026	Date:	2026-04-10
Customer:	Nokia Solutions and Networks	Temperature:	27.6°C
Attendees:	Mitch Hill, David Le	Relative Humidity:	43.5%
Customer Project:	None	Bar. Pressure (PMSL):	1014 mbar
Tested By:	Jarrod Brenden	Job Site:	PT14
Power:	54VDC	Configuration:	NOKI0093-2

COMMENTS

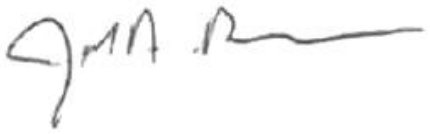
All losses in the measurement path were accounted for in the reference level offset; attenuators, filters, cables, and DC blocks. Carriers were enabled at maximum power levels.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass



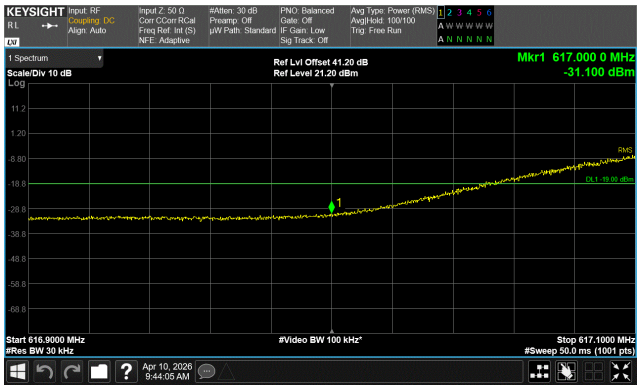
Tested By

TEST RESULTS

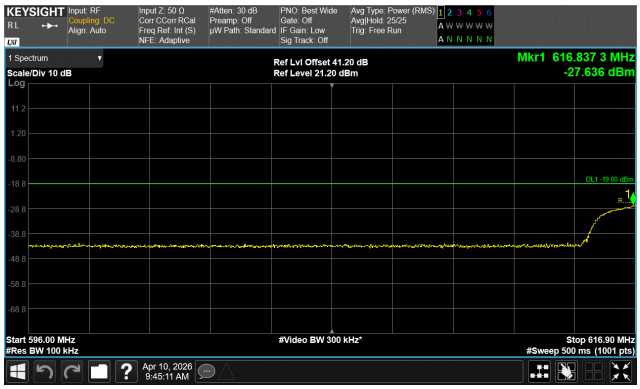
	Frequency Range	Frequency (MHz)	Value (dBm)	Limit (dBm)	Result
Port 1					
QPSK Modulation, 5 MHz channel Bandwidth					
LTE Band 71					
Low Channel, 619.5 MHz	616.9 MHz to 617.1 MHz	617	-31.1	-19.0	Pass
	596 MHz to 616.9 MHz	616.8373	-27.636	-19.0	Pass
High Channel, 649.5 MHz	651.9 MHz to 652.1 MHz	652	-34.14	-19.0	Pass
	652.1 MHz to 673 MHz	652.1209	-30.456	-19.0	Pass
5G-NR Band n71					
Low Channel, 619.5 MHz	616.9 MHz to 617.1 MHz	617	-30.788	-19.0	Pass
	596 MHz to 616.9 MHz	616.9	-26.706	-19.0	Pass
High Channel, 649.5 MHz	651.9 MHz to 652.1 MHz	652	-31.838	-19.0	Pass
	652.1 MHz to 673 MHz	652.1	-29.734	-19.0	Pass
LTE Band 85					
Low Channel, 730.5 MHz	727.9 MHz to 728.1 MHz	728	-29.1	-19.0	Pass
	707 MHz to 727.9 MHz	727.9	-25.815	-19.0	Pass
High Channel, 743.5 MHz	745.9 MHz to 746.1 MHz	746	-28.348	-19.0	Pass
	746.1 MHz to 767 MHz	746.1209	-24.489	-19.0	Pass
5G-NR Band n85					
Low Channel, 730.5 MHz	727.9 MHz to 728.1 MHz	728	-31.696	-19.0	Pass
	707 MHz to 727.9 MHz	727.7119	-26.315	-19.0	Pass
High Channel, 743.5 MHz	745.9 MHz to 746.1 MHz	746	-29.092	-19.0	Pass
	746.1 MHz to 767 MHz	746.1209	-24.615	-19.0	Pass

BAND EDGE COMPLIANCE

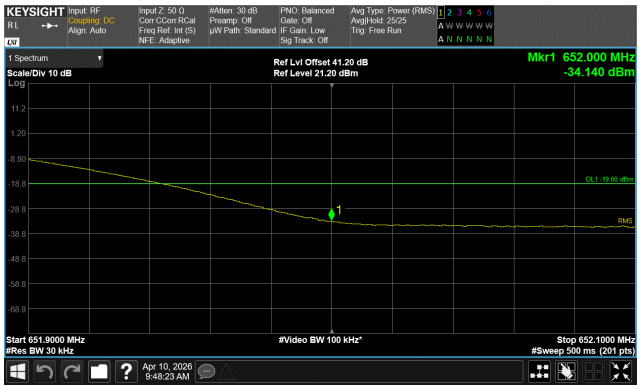
element
TbtTx 2024.05.24.1
WTD.2025.08.28.0



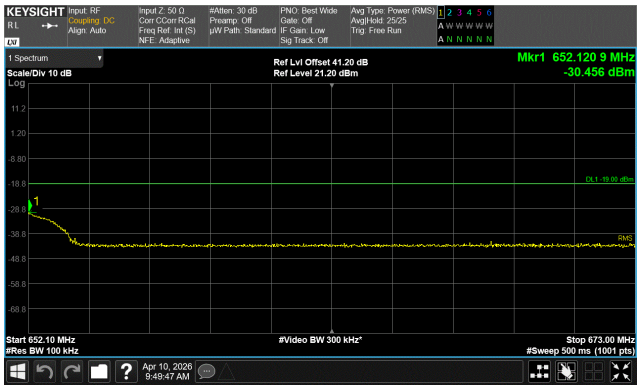
QPSK Modulation, 5 MHz channel Bandwidth
LTE Band 71
Low Channel, 619.5 MHz
616.9 MHz to 617.1 MHz



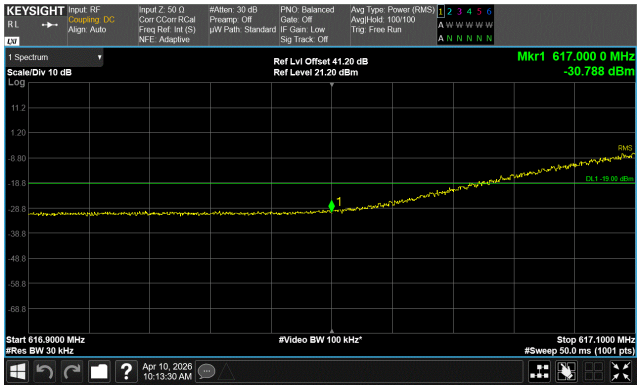
QPSK Modulation, 5 MHz channel Bandwidth
LTE Band 71
Low Channel, 619.5 MHz
596 MHz to 616.9 MHz



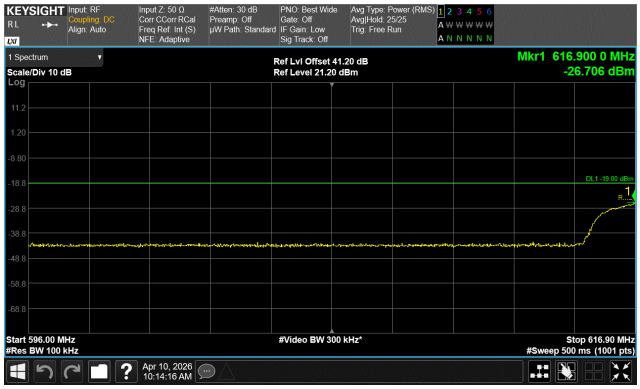
QPSK Modulation, 5 MHz channel Bandwidth
LTE Band 71
High Channel, 649.5 MHz
651.9 MHz to 652.1 MHz



QPSK Modulation, 5 MHz channel Bandwidth
LTE Band 71
High Channel, 649.5 MHz
652.1 MHz to 673 MHz



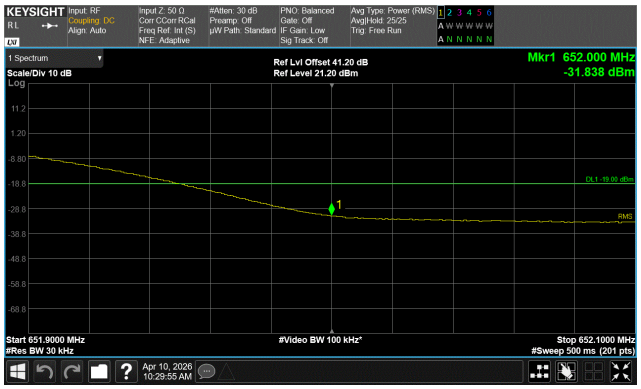
QPSK Modulation, 5 MHz channel Bandwidth
5G-NR Band n71
Low Channel, 619.5 MHz
616.9 MHz to 617.1 MHz



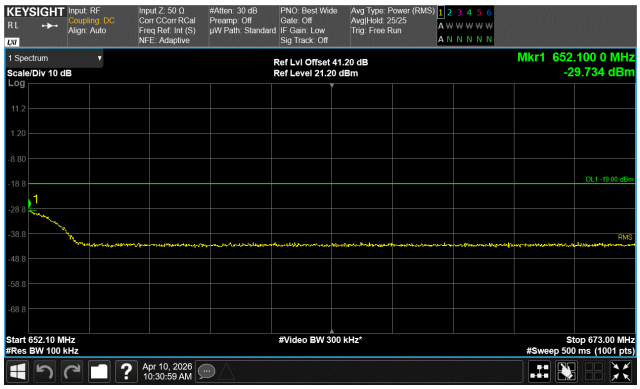
QPSK Modulation, 5 MHz channel Bandwidth
5G-NR Band n71
Low Channel, 619.5 MHz
596 MHz to 616.9 MHz

BAND EDGE COMPLIANCE

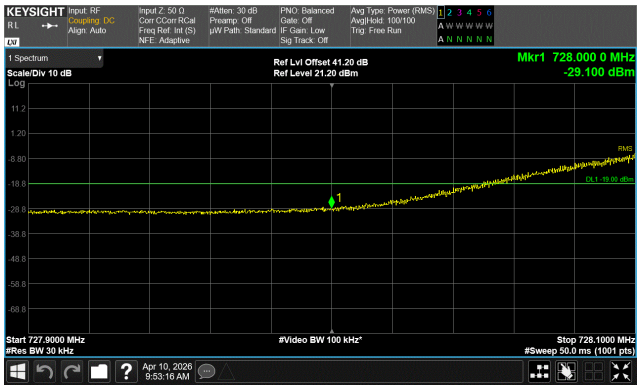
element
TbtTx 2024.05.24.1
WTD.2025.08.28.0



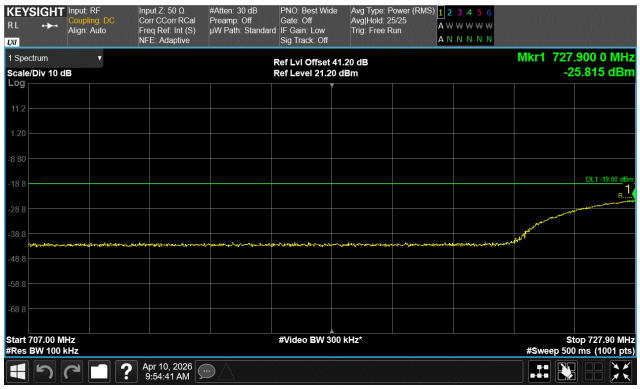
QPSK Modulation, 5 MHz channel Bandwidth
5G-NR Band n71
High Channel, 649.5 MHz
651.9 MHz to 652.1 MHz



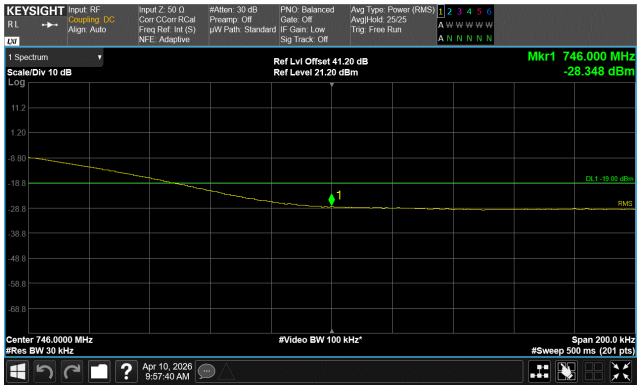
QPSK Modulation, 5 MHz channel Bandwidth
5G-NR Band n71
High Channel, 649.5 MHz
652.1 MHz to 673 MHz



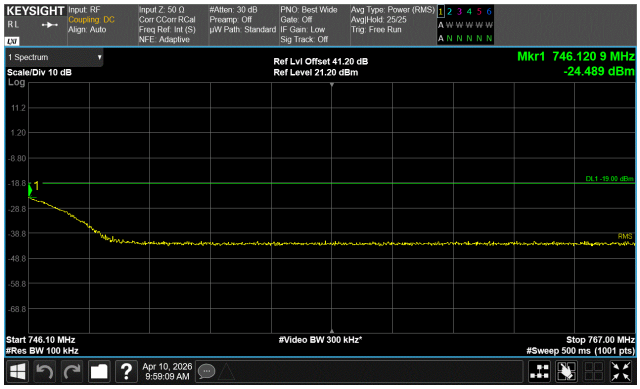
QPSK Modulation, 5 MHz channel Bandwidth
LTE Band 85
Low Channel, 730.5 MHz
727.9 MHz to 728.1 MHz



QPSK Modulation, 5 MHz channel Bandwidth
LTE Band 85
Low Channel, 730.5 MHz
707 MHz to 727.9 MHz



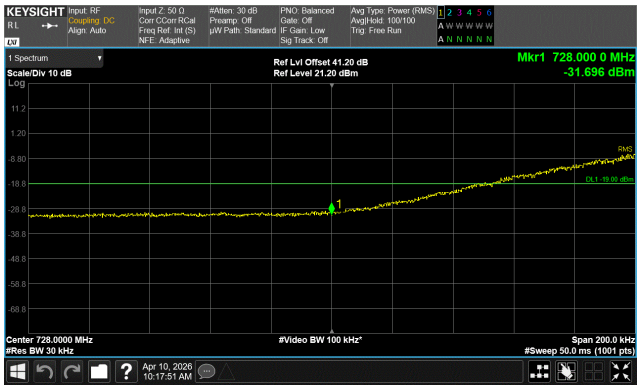
QPSK Modulation, 5 MHz channel Bandwidth
LTE Band 85
High Channel, 743.5 MHz
745.9 MHz to 746.1 MHz



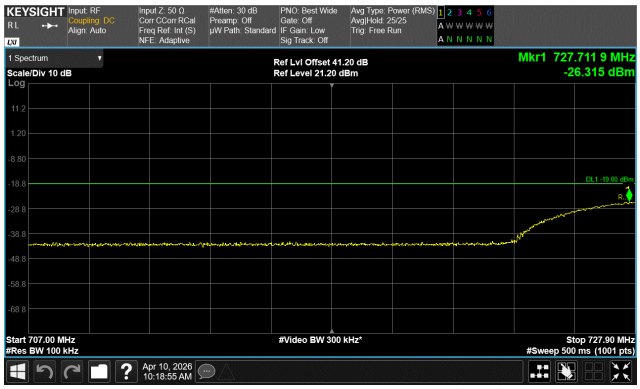
QPSK Modulation, 5 MHz channel Bandwidth
LTE Band 85
High Channel, 743.5 MHz
746.1 MHz to 767 MHz

BAND EDGE COMPLIANCE

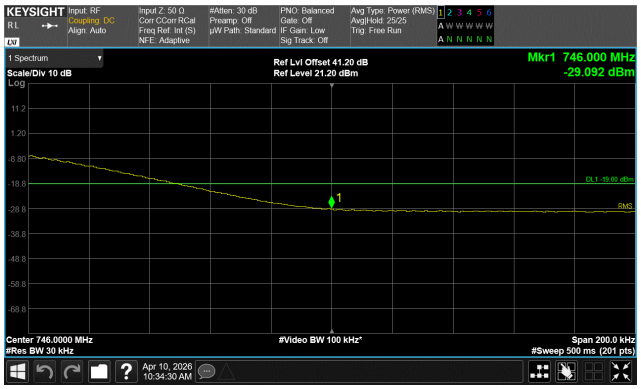
element
TbtTx 2024.05.24.1
WTD.2025.08.28.0



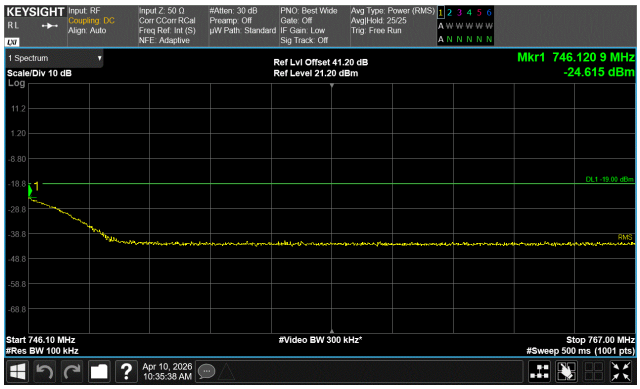
QPSK Modulation, 5 MHz channel Bandwidth
5G-NR Band n85
Low Channel, 730.5 MHz
727.9 MHz to 728.1 MHz



QPSK Modulation, 5 MHz channel Bandwidth
5G-NR Band n85
Low Channel, 730.5 MHz
707 MHz to 727.9 MHz



QPSK Modulation, 5 MHz channel Bandwidth
5G-NR Band n85
High Channel, 743.5 MHz
745.9 MHz to 746.1 MHz



QPSK Modulation, 5 MHz channel Bandwidth
5G-NR Band n85
High Channel, 743.5 MHz
746.1 MHz to 767 MHz

BAND EDGE COMPLIANCE - MULTICARRIER

element
TbtTx 2024.05.24.1
WTD.2025.08.28.0

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.

RF conducted emissions testing was performed only on one port. The testing was performed on the same version of hardware (AHLOB) as the original certification test. The AHLOB antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown in the "Output Power-all Ports" report section within this report). Antenna port 1 was selected to preform the testing under this effort as allowed by ANSI C63.26 paragraphs 5.2.5.3, 5.7.2i, and 6.4.

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 method described in ANSI C63.26 paragraph 5.7 and KDB 971168D01v02 paragraph 6 was used to make these measurements.

The spectrum was scanned below the lower band edge and above the higher band edge.

Per RSS-130 4.7 and FCC section 27.53(g) the power of any emissions outside the authorized operating frequency range cannot exceed -13 dBm. The limit is adjusted to -19 [-13 dBm – 10 Log (4)] per FCC KDB 662911D01 v02r01 because BTS may operate as a 4 port MIMO transmitter.

RSS-130 4.7 and FCC section 27.53(g) requires >100 kHz measurement bandwidth for emissions 100 kHz outside of the RRH operating frequency range. RSS-130 4.7 and FCC section 27.53(g) requires >30 kHz measurement bandwidth for emissions between 100 kHz outside of the RRH operating frequency range and band edge of the operating frequency range.

Multicarrier test cases have been developed as shown below:

Multi-Carrier Test Case 1): 3GPP Band 5G n71 Multicarrier In the Band n71: Three NR5 carriers using two carriers (with minimum spacing between carrier frequencies) at the lower band edge (619.5 & 624.5MHz) 10Watt each and a third carrier with maximum spacing (649.5MHz)60Watts at the upper band edge. The carriers are operated at a maximum power allotted for a total port power of 80 watts. 3GPP Band n85 carrier is not enabled.

Multi-Carrier Test Case 2): 3GPP Band 5G n71 Multicarrier In the Band n71: Two NR5 carriers using with maximum spacing between carrier frequencies. One at the upper band edge (649.5MHz) at 60Watt and the second with maximum spacing (619.5MHz)20Watts at the lower band edge. The carriers are operated at a maximum power for a total port power of 80 watts. 3GPP Band n85 carrier is not enabled.

Multi-Carrier Test Case 3): 3GPP Band LTE 71 Multicarrier In the Band 71: Three LTE5 carriers using two carriers (with minimum spacing between carrier frequencies) at the upper band edge (649.5 & 644.5MHz) at 10Watt each and a third carrier with maximum spacing (619.5MHz)60Watts at the lower band edge. The carriers are operated at a maximum power for a total port power of 80 watts. 3GPP Band n85 carrier is not enabled.

Multi-Carrier Test Case 4): 3GPP Band 5G n85 Multicarrier In the Band n85: Two NR5 carriers with one at the lower band edge (730.5MHz)40W and the second carrier at maximum spacing at the upper band edge (743.5MHz) 40W. The carriers are operated at maximum power for a total port power of 80 watts. 3GPP Band n71 carrier is not enabled.

Multi-Carrier Test Case 5): 3GPP Band LTE 85 Multicarrier In the Band 85: Three LTE5 carriers with two with minimum spacing at the lower band edge (730.5 and 735.5MHz)10W each and the third carrier at maximum spacing at the

upper band edge (743.5MHz)60W. The carriers are operated at maximum power for a total port power of 80 watts. 3GPP Band n71 carrier is not enabled.

Multi-Carrier Test Case 6): 3GPP Band 5G n71 and Band n85 Multicarrier Multiband: Three NR 5MHz carriers using two carriers (with minimum spacing between carrier frequencies) at the Band n71 lower band edge (619.5 & 624.5MHz)10W each and a third carrier with maximum multiband spacing (743.5MHz)60W at the Band n85 upper band edge. The carriers were operated at maximum power for a total port power of 80 watts.

Multi-Carrier Test Case 7): 3GPP Band LTE 71 and Band LTE 85 Multicarrier Multiband: Three LTE5 carriers using two carriers (with minimum spacing between carrier frequencies) at the Band LTE 85 upper band edge (738.5 and 743.5MHz)10W each and a third carrier with maximum multiband spacing (619.5MHz)60W at the Band 71 lower band edge. The carriers were operated at maximum power for a total port power of 80 watts.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Keysight Technologies	N9030B	AGA	2025-06-09	2026-06-09
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

element
TbtTx 2024.05.24.1
WTD.2025.08.28.0

EUT:	Airscale Base Transceiver Station Remote Radio Head Model AHLOB	Work Order:	NOKI0093
Serial Number:	YK220900026	Date:	2026-04-13
Customer:	Nokia Solutions and Networks	Temperature:	27.6°C
Attendees:	Mitch Hill, David Le	Relative Humidity:	43.2%
Customer Project:	None	Bar. Pressure (PMSL):	1014 mbar
Tested By:	Jarrod Brenden	Job Site:	PT14
Power:	54VDC	Configuration:	NOKI0093-2

COMMENTS

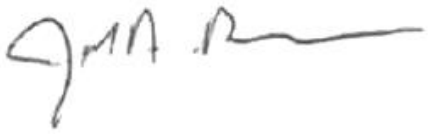
All losses in the measurement path were accounted for in the reference level offset; attenuators, filters, cables, and DC blocks. Carriers were enabled at maximum power levels.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass



Tested By

TEST RESULTS

	Frequency Range	Frequency (MHz)	Value (dBm)	Limit (dBm)	Result
Port 1					
QPSK Modulation					
Multicarrier Test Case 1, 5G-NR Band n71					
Lower Band Edge	616.9 MHz to 617.1 MHz	617	-29.828	-19.0	Pass
	596 MHz to 616.9 MHz	616.9	-26.178	-19.0	Pass
Upper Band Edge	651.9 MHz to 652.1 MHz	652	-24.219	-19.0	Pass
	652.1 MHz to 673 MHz	652.309	-24.315	-19.0	Pass
Multicarrier Test Case 2, 5G-NR Band n71					
Lower Band Edge	616.9 MHz to 617.1 MHz	617	-28.039	-19.0	Pass
	596 MHz to 616.9 MHz	616.879	-23.917	-19.0	Pass
Upper Band Edge	651.9 MHz to 652.1 MHz	652	-25.944	-19.0	Pass
	652.1 MHz to 673 MHz	652.1	-25.401	-19.0	Pass
Multicarrier Test Case 3, LTE Band 71					
Lower Band Edge	616.9 MHz to 617.1 MHz	617	-22.142	-19.0	Pass
	596 MHz to 616.9 MHz	616.691	-23.6	-19.0	Pass
Upper Band Edge	651.9 MHz to 652.1 MHz	652	-25.907	-19.0	Pass
	652.1 MHz to 673 MHz	652.1	-28.687	-19.0	Pass
Multicarrier Test Case 4, 5G-NR Band n85					
Lower Band Edge	727.9 MHz to 728.1 MHz	728	-27.449	-19.0	Pass
	707 MHz to 727.9 MHz	727.9	-26.979	-19.0	Pass
Upper Band Edge	745.9 MHz to 746.1 MHz	746	-27.719	-19.0	Pass
	746.1 MHz to 767 MHz	746.1	-26.355	-19.0	Pass

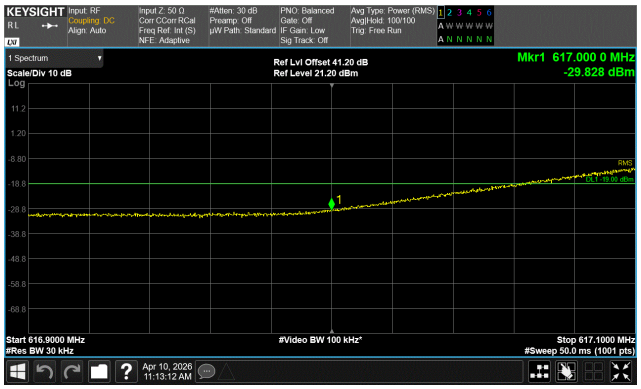
BAND EDGE COMPLIANCE - MULTICARRIER

element
TbtTx 2024.05.24.1
WTD.2025.08.28.0

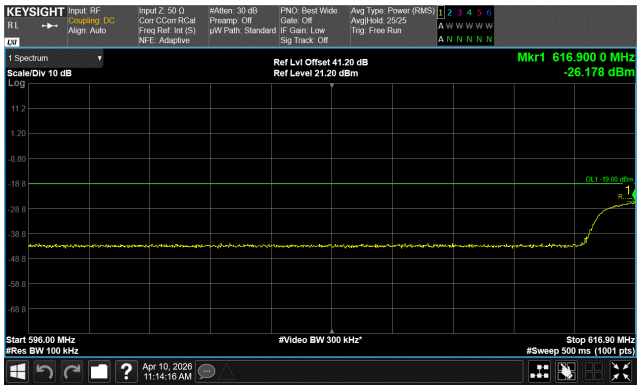
	Frequency Range	Frequency (MHz)	Value (dBm)	Limit (dBm)	Result
Multicarrier Test Case 5, LTE Band 85					
Lower Band Edge	727.9 MHz to 728.1 MHz	728	-30.412	-19.0	Pass
	707 MHz to 727.9 MHz	727.6701	-28.744	-19.0	Pass
Upper Band Edge	745.9 MHz to 746.1 MHz	746	-25.181	-19.0	Pass
	746.1 MHz to 767 MHz	746.1	-23.469	-19.0	Pass
Multicarrier Test Case 6, 5G-NR Band n71 and n85					
Lower Band Edge	616.9 MHz to 617.1 MHz	617	-28.12	-19.0	Pass
	596 MHz to 616.9 MHz	616.5865	-25.527	-19.0	Pass
Upper Band Edge	745.9 MHz to 746.1 MHz	746	-22.738	-19.0	Pass
	746.1 MHz to 767 MHz	746.1	-21.346	-19.0	Pass
Multicarrier Test Case 7, LTE Band 71 and 85					
Lower Band Edge	616.9 MHz to 617.1 MHz	617	-21.228	-19.0	Pass
	596 MHz to 616.9 MHz	616.9	-23.047	-19.0	Pass
Upper Band Edge	745.9 MHz to 746.1 MHz	746	-26.062	-19.0	Pass
	746.1 MHz to 767 MHz	746.2254	-21.022	-19.0	Pass

BAND EDGE COMPLIANCE - MULTICARRIER

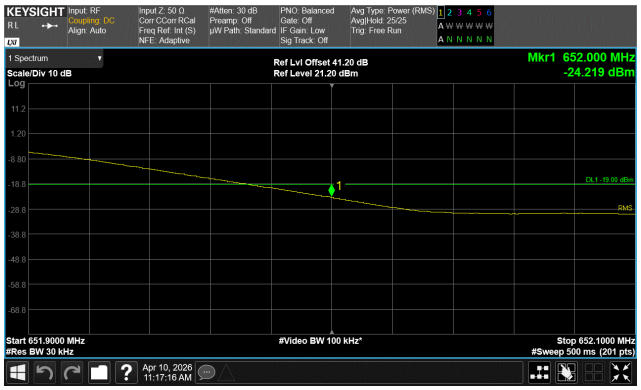
element
TbtTx 2024.05.24.1
WTD.2025.08.28.0



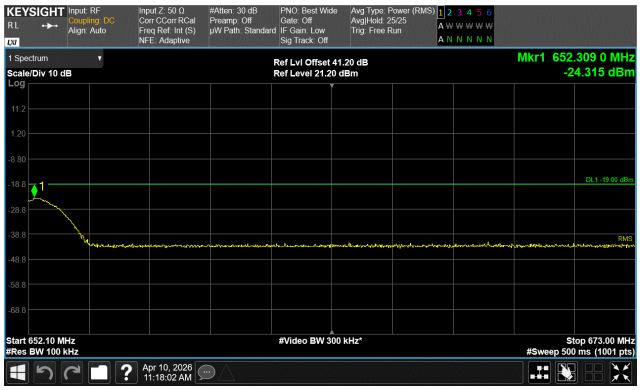
Multicarrier Test Case 1, 5G-NR Band n71
Lower Band Edge



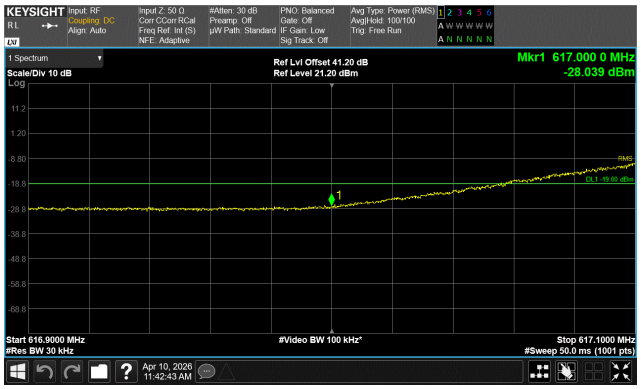
Multicarrier Test Case 1, 5G-NR Band n71
Lower Band Edge



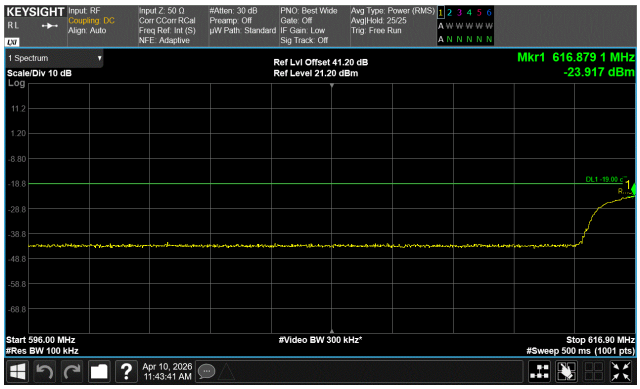
Multicarrier Test Case 1, 5G-NR Band n71
Upper Band Edge



Multicarrier Test Case 1, 5G-NR Band n71
Lower Band Edge



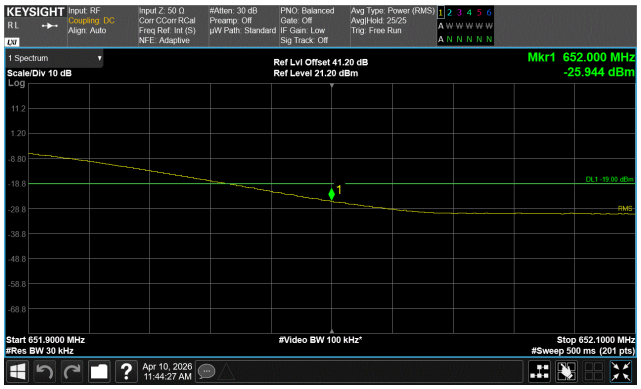
Multicarrier Test Case 2, 5G-NR Band n71
Lower Band Edge



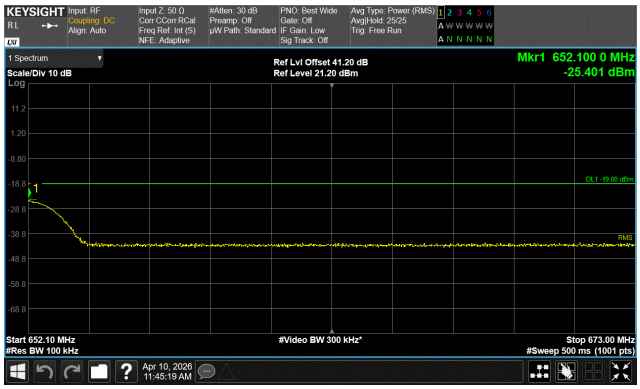
Multicarrier Test Case 2, 5G-NR Band n71
Lower Band Edge

BAND EDGE COMPLIANCE - MULTICARRIER

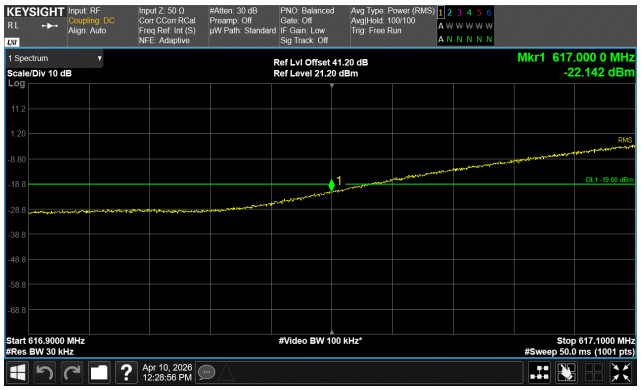
element
TbtTx 2024.05.24.1
WTD.2025.08.28.0



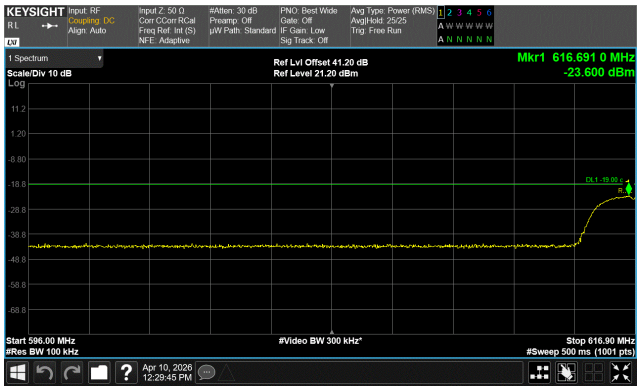
Multicarrier Test Case 2, 5G-NR Band n71
Upper Band Edge



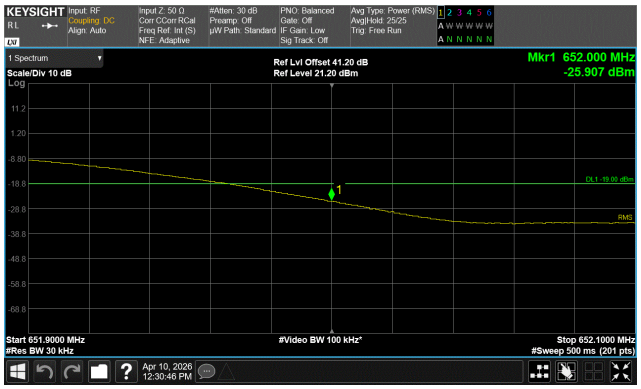
Multicarrier Test Case 2, 5G-NR Band n71
Lower Band Edge



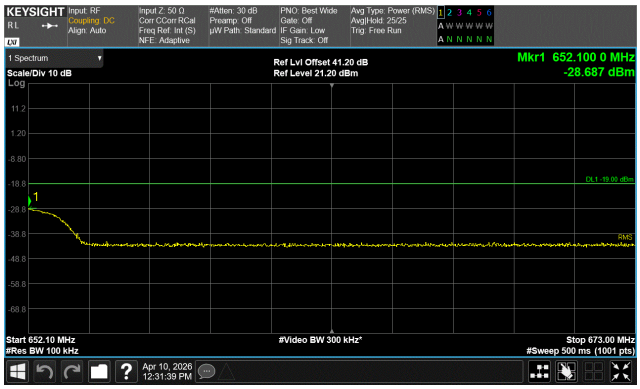
Multicarrier Test Case 3, LTE Band 71
Lower Band Edge



Multicarrier Test Case 3, LTE Band 71
Lower Band Edge



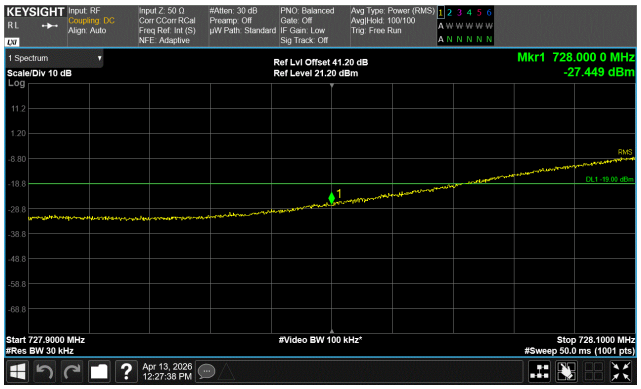
Multicarrier Test Case 3, LTE Band 71
Upper Band Edge



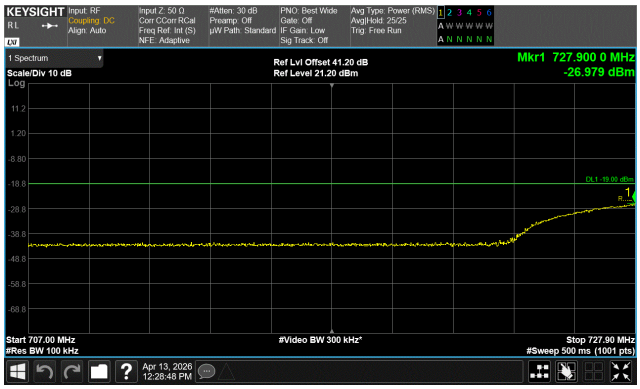
Multicarrier Test Case 3, LTE Band 71
Lower Band Edge

BAND EDGE COMPLIANCE - MULTICARRIER

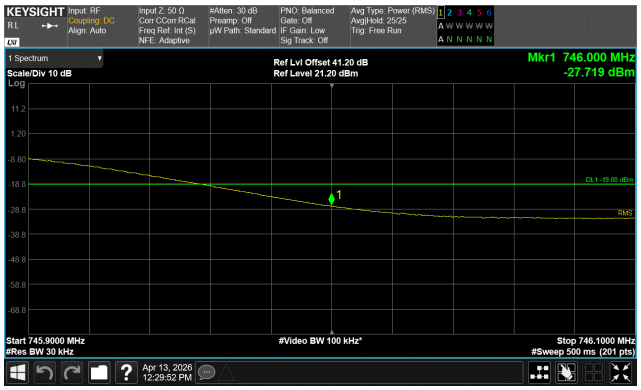
element
TbtTx 2024.05.24.1
WTD.2025.08.28.0



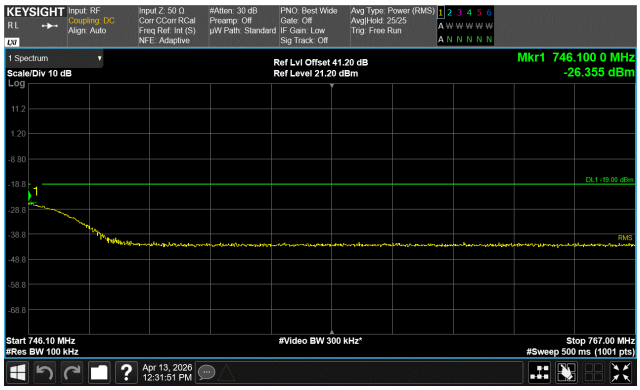
Multicarrier Test Case 4, 5G-NR Band n85
Lower Band Edge



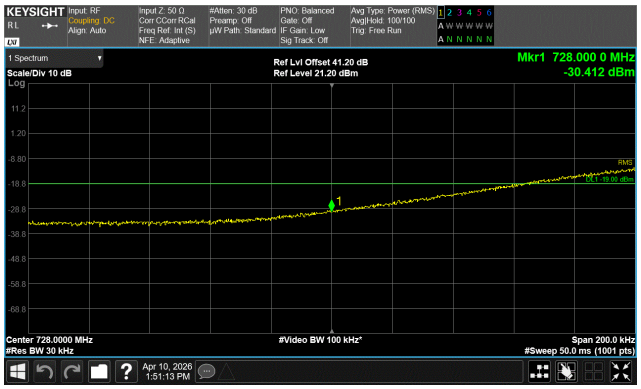
Multicarrier Test Case 4, 5G-NR Band n85
Lower Band Edge



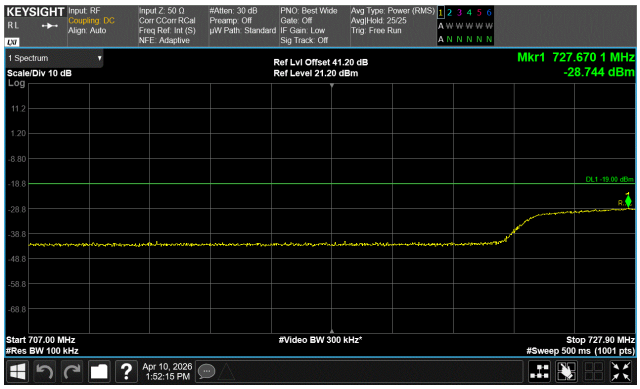
Multicarrier Test Case 4, 5G-NR Band n85
Upper Band Edge



Multicarrier Test Case 4, 5G-NR Band n85
Lower Band Edge



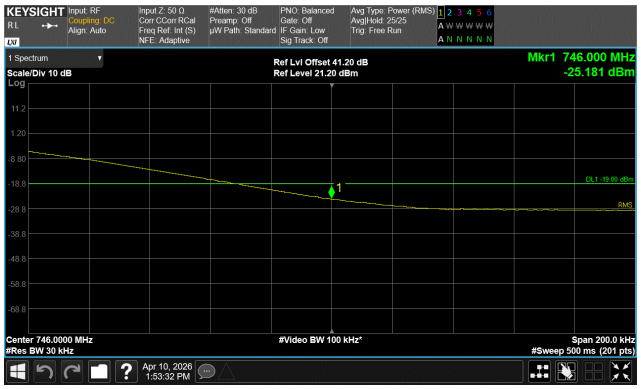
Multicarrier Test Case 5, LTE Band 85
Lower Band Edge



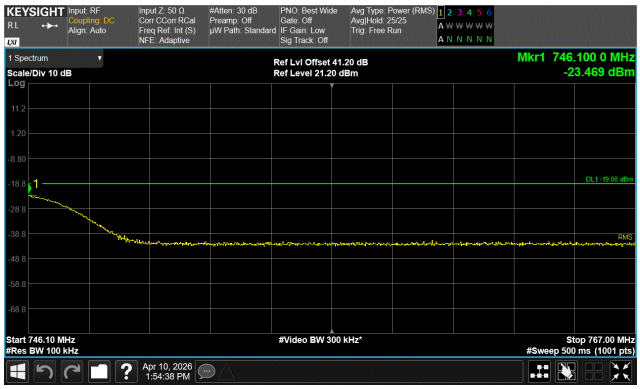
Multicarrier Test Case 5, LTE Band 85
Lower Band Edge

BAND EDGE COMPLIANCE - MULTICARRIER

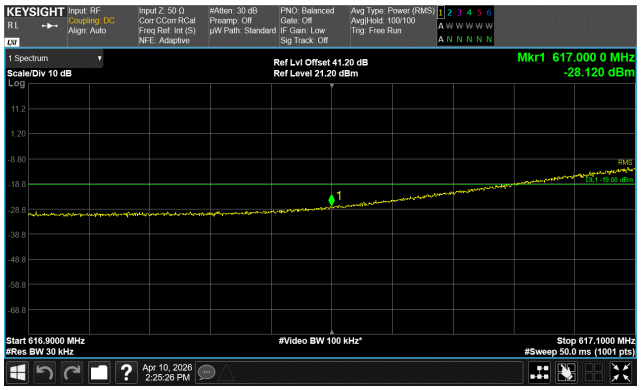
element
TbtTx 2024.05.24.1
WTD.2025.08.28.0



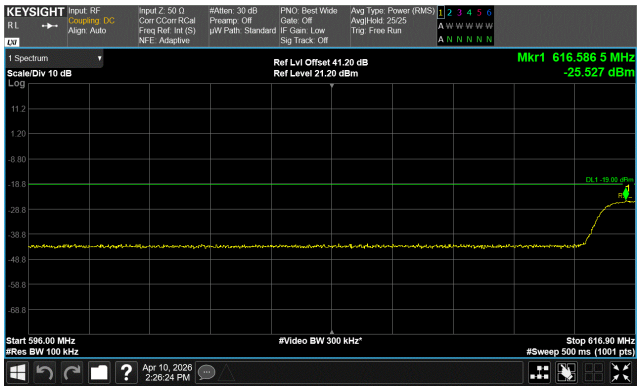
Multicarrier Test Case 5, LTE Band 85
Upper Band Edge



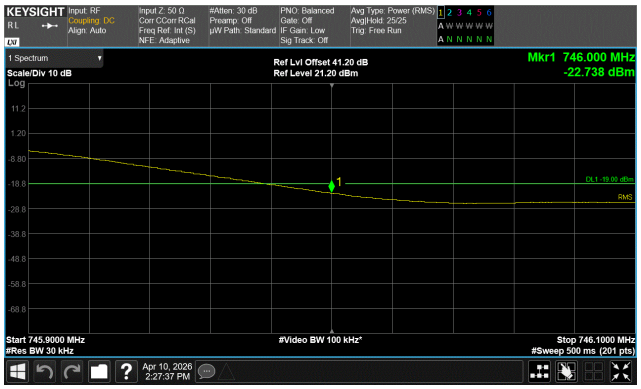
Multicarrier Test Case 5, LTE Band 85
Lower Band Edge



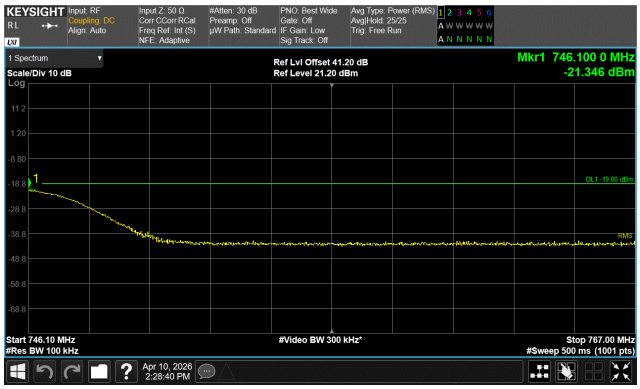
Multicarrier Test Case 6, 5G-NR Band n71 and n85
Lower Band Edge



Multicarrier Test Case 6, 5G-NR Band n71 and n85
Lower Band Edge



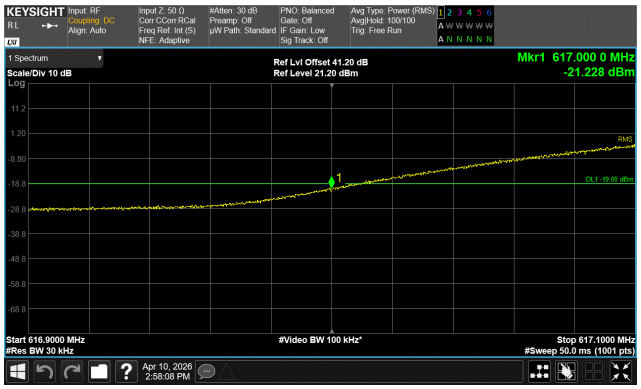
Multicarrier Test Case 6, 5G-NR Band n71 and n85
Upper Band Edge



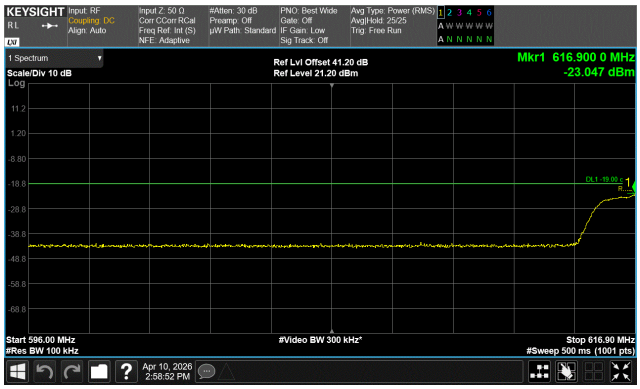
Multicarrier Test Case 6, 5G-NR Band n71 and n85
Lower Band Edge

BAND EDGE COMPLIANCE - MULTICARRIER

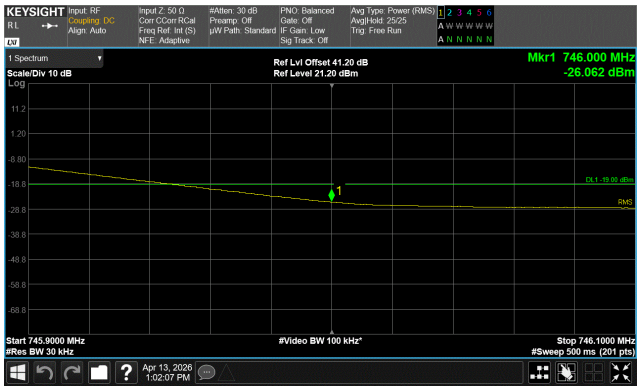
element
TbtTx 2024.05.24.1
WTD.2025.08.28.0



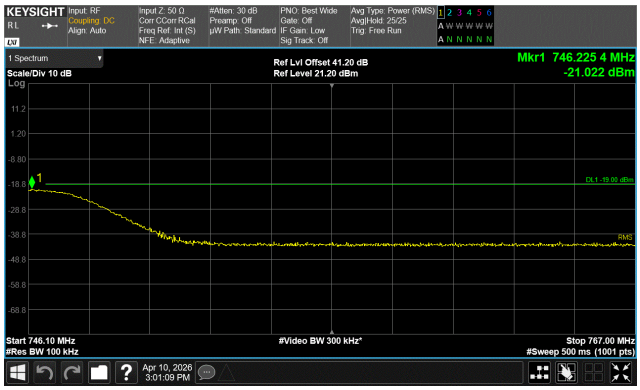
Multicarrier Test Case 7, LTE Band 71 and 85
Lower Band Edge



Multicarrier Test Case 7, LTE Band 71 and 85
Lower Band Edge



Multicarrier Test Case 7, LTE Band 71 and 85
Upper Band Edge



Multicarrier Test Case 7, LTE Band 71 and 85
Lower Band Edge

SPURIOUS CONDUCTED EMISSIONS

element
TbtTx 2025.09.12.2
WTD.2025.08.28.0

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 3 different attenuation configurations which continues through to the RF input of the spectrum analyzer. Analyzer plots utilizing a resolution bandwidth called out by the client's test approach were made for each modulation type from 9 kHz to 8 GHz. The conducted power of spurious emissions, up to the 10th harmonic of the transmit frequency, were investigated to ensure they were less than the limits also called out by the client's test plan shown below.

The measurement methods are detailed in KDB 971168 D01v03 section 6 and ANSI C63.26-2015. Per FCC 2.1057(a)(1) and RSS Gen 6.13, the upper level of measurement is the 10th harmonic of the highest fundamental frequency. C63.26 section 5.7.3 d), C63.26 section 5.7.4 c) Sweep time should be auto for peak detection. For rms detection the sweep time should be set as follows: 1) If the device can be configured to transmit continuously (duty cycle ≥ 98%), set the (sweep time) > (number of points in sweep) × (symbol period) (e.g., by a factor of 10 × symbol period × number of points). Increasing the sweep time (i.e., slowing the sweep speed) will allow for averaging over multiple symbols.

RF conducted emissions testing was performed only on one port. The testing was performed on the same version of hardware (AHLOB) as the original certification test. The AHLOB antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown in the “Output Power-All Ports” report section within this report). Antenna port 1 was selected to preform the testing under this effort as allowed by ANSI C63.26 paragraphs 5.2.5.3, 5.7.2i, and 6.4.

Per section 27.53(g) and RSS 130 4.7, the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The limit is adjusted to -19 dBm [-13 dBm -10 log (4)] per FCC KDB 662911D01 v02r01 because the BTS may operate as a 4 port MIMO transmitter.

The limit for the 9kHz to 150kHz frequency range was adjusted to –39dBm to correct for a spectrum analyzer RBW of 1kHz versus required RBW of 100kHz [i.e.: -39dBm = -19dBm -10log(100kHz/1kHz)]. The limit for the 150kHz to 20MHz frequency range was adjusted to –29dBm to correct for a spectrum analyzer RBW of 10kHz versus required RBW of 100kHz [i.e.: -29dBm = -19dBm -10log(100kHz/10kHz)]. The required limit of -19dBm with a RBW of > 100kHz was used for all other frequency ranges.

A preliminary measurement (pre-scan) is made using the spectrum analyzer peak-detector and max hold trace. ANSI C63.26 2015 5.7.4(b) allows for pre-scan to accommodate wide frequency spans. A peak detector can be utilized for these pre-scan measurements. Any emissions detected during the pre-scan measurement that exceeds the required limit shall be further examined/scanned using the specified detector type. In this case the required detector type is the power average(rms) detector.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Keysight Technologies	N9030B	AGA	2025-06-09	2026-06-09
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

element
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WTD.2025.08.28.0

EUT:	Airscale Base Transceiver Station Remote Radio Head Model AHLOB	Work Order:	NOKI0093
Serial Number:	YK220900026	Date:	2026-04-10
Customer:	Nokia Solutions and Networks	Temperature:	27.6°C
Attendees:	Mitch Hill, David Le	Relative Humidity:	43.4%
Customer Project:	None	Bar. Pressure (PMSL):	1014 mbar
Tested By:	Jarrod Brenden	Job Site:	PT14
Power:	54VDC	Configuration:	NOKI0093-1 NOKI0093-2 NOKI0093-3

COMMENTS

All losses in the measurement path were accounted for in the reference level offset; attenuators, filters, cables, and DC blocks. Carriers were enabled at maximum power levels.

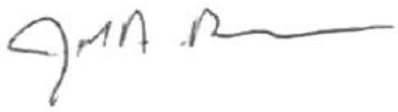
*Average (RMS) scan for maximization is used to isolate the specific signal from the noise floor.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass



Tested By

SPURIOUS CONDUCTED EMISSIONS

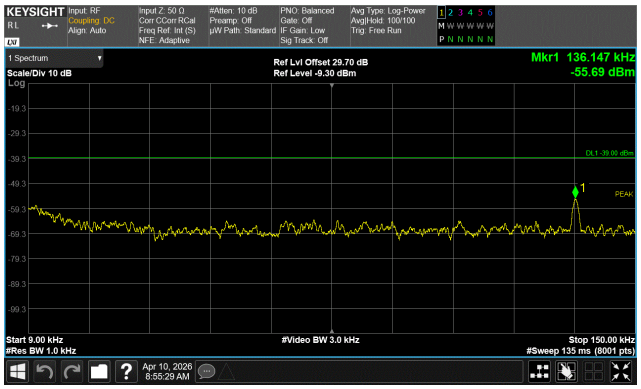
element
TbtTx 2025.09.12.2
WTD.2025.08.28.0

TEST RESULTS

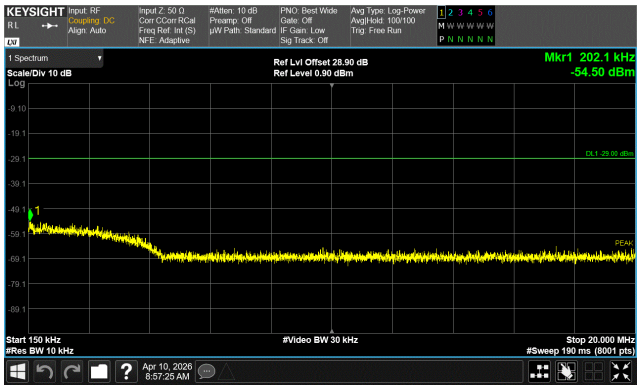
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
LTE Band 71					
5 MHz Channel Bandwidth					
QPSK Modulation					
Middle Channel, 634.5 MHz	9 kHz - 150 kHz	0.14	-55.69	-39	Pass
	150 kHz - 20 MHz	0.2	-54.5	-29	Pass
	20 MHz - 1.2 GHz	737.28	-21.54	-19	See Comments
	637.3 MHz - 837.3 MHz*	737.28	-26.566	-19	Pass
	1.2 GHz - 8 GHz	1904.8	-28.22	-19	Pass
5G NR Band n71					
5 MHz Channel Bandwidth					
QPSK Modulation					
Middle Channel, 634.5 MHz	9 kHz - 150 kHz	0.01	-55.25	-39	Pass
	150 kHz - 20 MHz	0.79	-54.41	-29	Pass
	20 MHz - 1.2 GHz	737.28	-20.69	-19	See Comments
	637.3 MHz - 837.3 MHz*	737.26	-26.024	-19	Pass
	1.2 GHz - 8 GHz	1900.85	-26.14	-19	Pass
LTE Band 85					
5 MHz Channel Bandwidth					
QPSK Modulation					
Middle Channel, 737.0 MHz	9 kHz - 150 kHz	0.14	-56.73	-39	Pass
	150 kHz - 20 MHz	0.21	-54.81	-29	Pass
	20 MHz - 1.2 GHz	626.09	-22.93	-19	See Comments
	534 MHz - 734 MHz*	634	-37.753	-19	Pass
	1.2 GHz - 8 GHz	2211.84	-30.8	-19	Pass
5G NR Band n85					
5 MHz Channel Bandwidth					
QPSK Modulation					
Middle Channel, 737.0 MHz	9 kHz - 150 kHz	0.14	-56.04	-39	Pass
	150 kHz - 20 MHz	0.69	-54.92	-29	Pass
	20 MHz - 1.2 GHz	650.75	-23.92	-19	See Comments
	534 MHz - 734 MHz*	634	-37.487	-19	Pass
	1.2 GHz - 8 GHz	2211.84	-31.24	-19	Pass

SPURIOUS CONDUCTED EMISSIONS

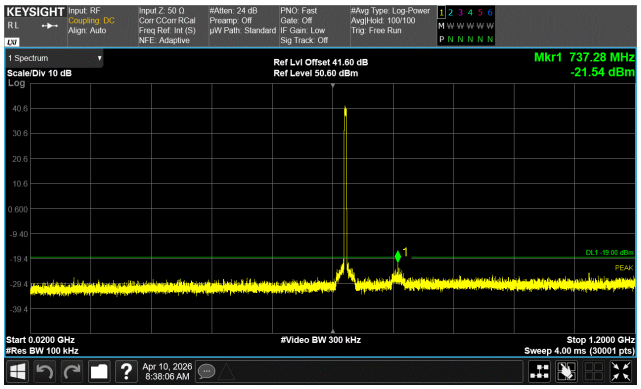
element
TbtTx 2025.09.12.2
WTD.2025.08.28.0



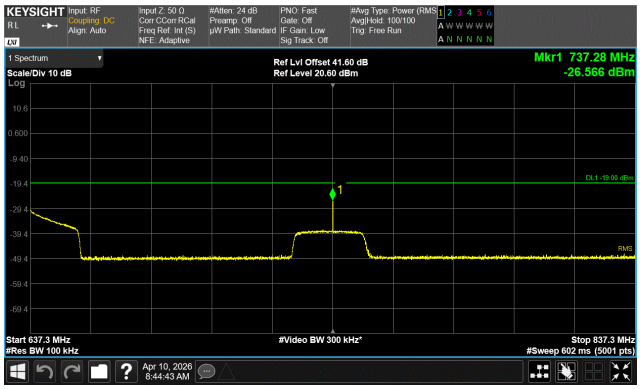
LTE Band 71
5 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 634.5 MHz



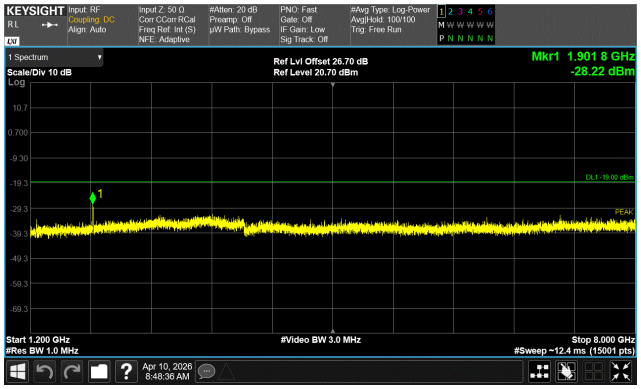
LTE Band 71
5 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 634.5 MHz



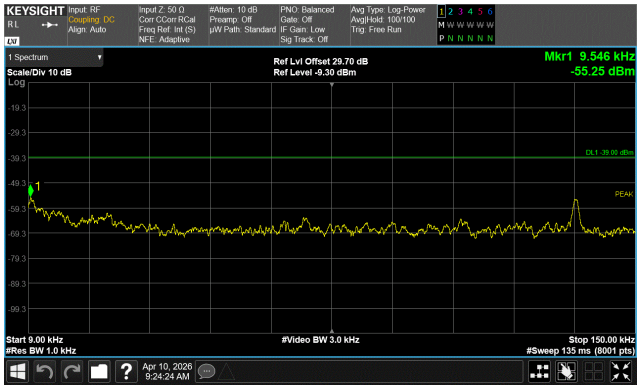
LTE Band 71
5 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 634.5 MHz



LTE Band 71
5 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 634.5 MHz*



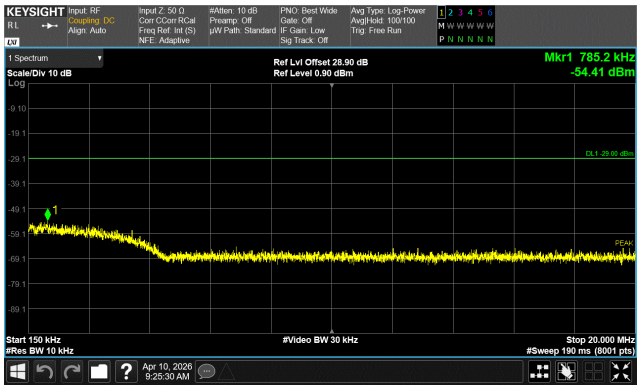
LTE Band 71
5 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 634.5 MHz



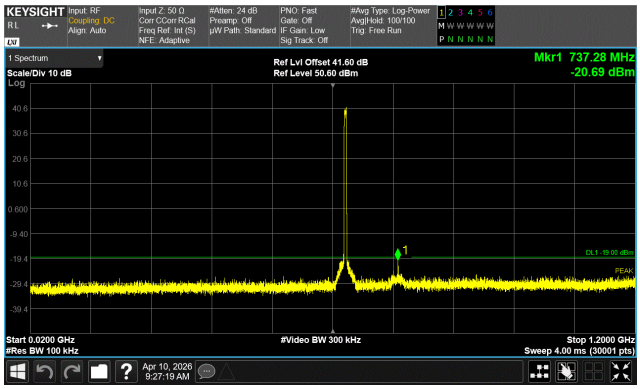
5G NR Band n71
5 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 634.5 MHz

SPURIOUS CONDUCTED EMISSIONS

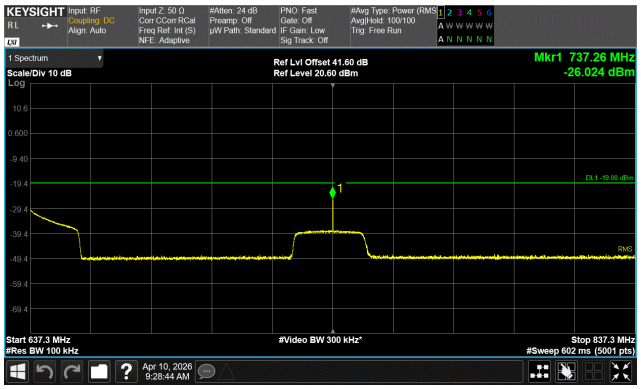
element
TbtTx 2025.09.12.2
WTD.2025.08.28.0



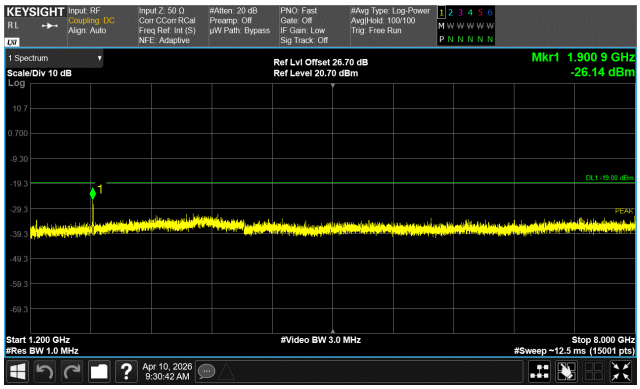
5G NR Band n71
5 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 634.5 MHz



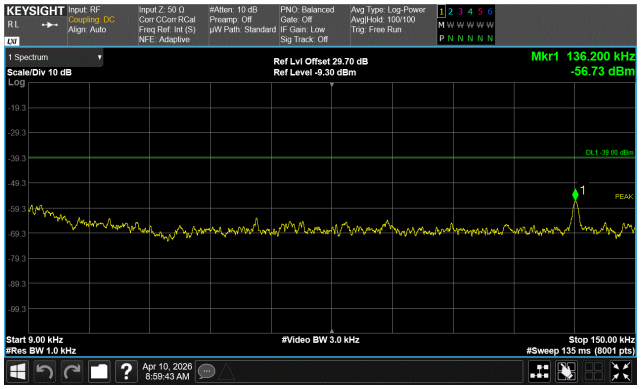
5G NR Band n71
5 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 634.5 MHz



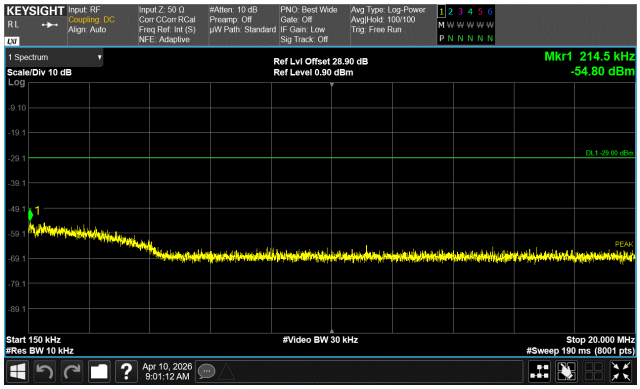
5G NR Band n71
5 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 634.5 MHz*



5G NR Band n71
5 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 634.5 MHz



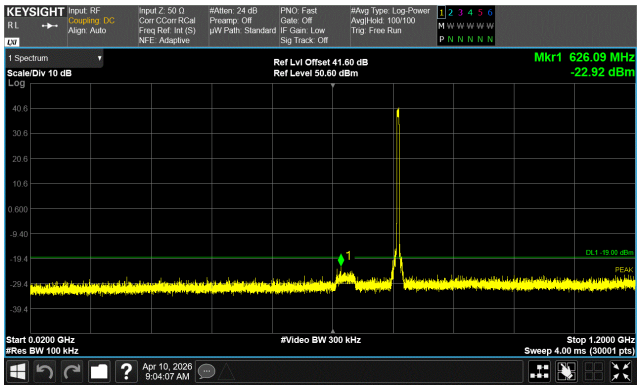
LTE Band 85
5 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 737.0 MHz



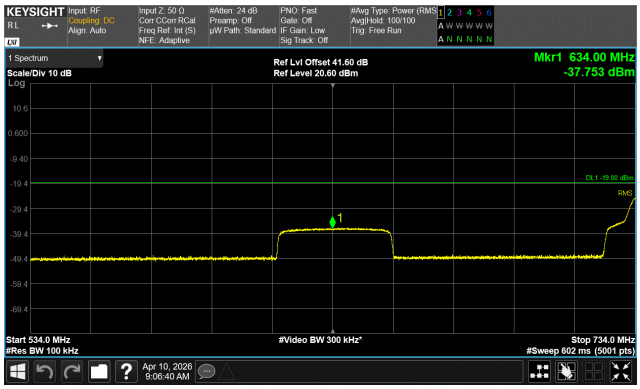
LTE Band 85
5 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 737.0 MHz

SPURIOUS CONDUCTED EMISSIONS

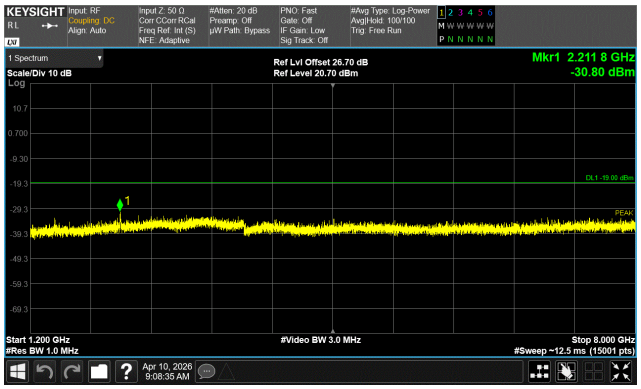
element
TbtTx 2025.09.12.2
WTD.2025.08.28.0



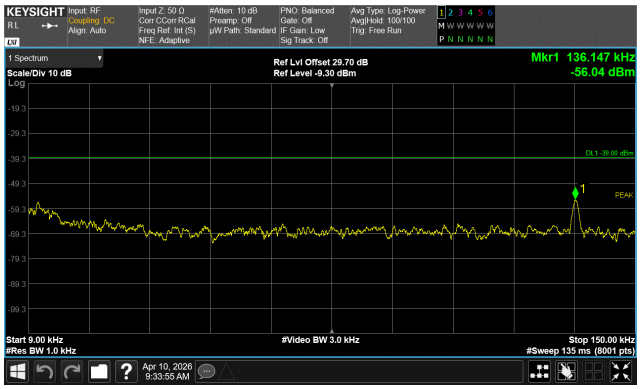
LTE Band 85
5 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 737.0 MHz



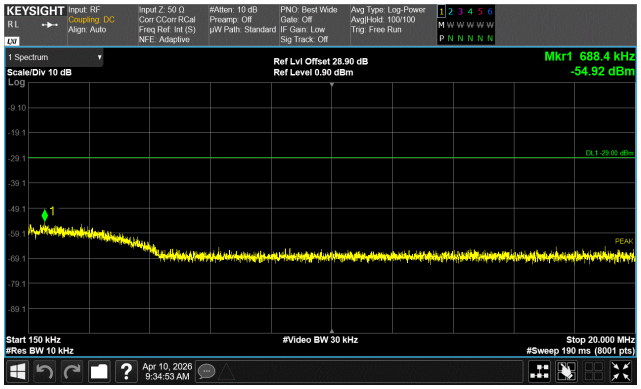
LTE Band 85
5 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 737.0 MHz*



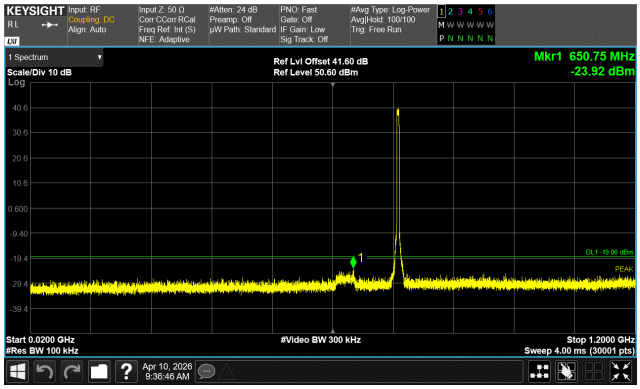
LTE Band 85
5 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 737.0 MHz



5G NR Band n85
5 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 737.0 MHz



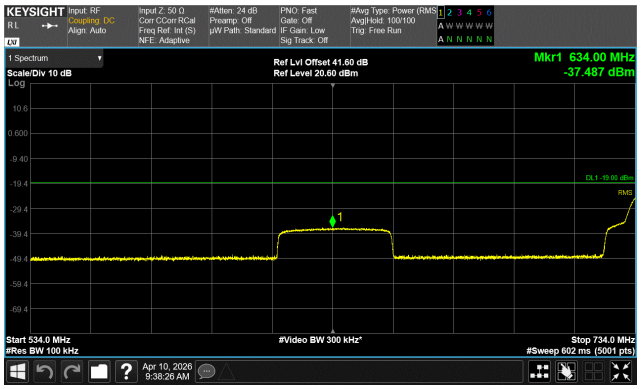
5G NR Band n85
5 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 737.0 MHz



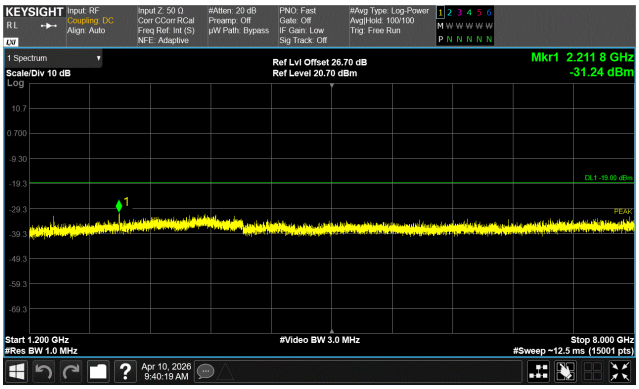
5G NR Band n85
5 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 737.0 MHz

SPURIOUS CONDUCTED EMISSIONS

element
TbtTx 2025.09.12.2
WTD.2025.08.28.0



5G NR Band n85
5 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 737.0 MHz*



5G NR Band n85
5 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 737.0 MHz

SPURIOUS CONDUCTED EMISSIONS - MULTICARRIER

element
TbtTx 2025.09.12.2
WTD.2025.08.28.0

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 3 different attenuation configurations which continues through to the RF input of the spectrum analyzer. Analyzer plots utilizing a resolution bandwidth called out by the client's test approach were made for each modulation type from 9 kHz to 8 GHz. The conducted power of spurious emissions, up to the 10th harmonic of the transmit frequency, were investigated to ensure they were less than the limits also called out by the client's test plan shown below.

The measurement methods are detailed in KDB 971168 D01v03 section 6 and ANSI C63.26-2015. Per FCC 2.1057(a)(1) and RSS Gen 6.13, the upper level of measurement is the 10th harmonic of the highest fundamental frequency. C63.26 section 5.7.3 d), C63.26 section 5.7.4 c) Sweep time should be auto for peak detection. For rms detection the sweep time should be set as follows: 1) If the device can be configured to transmit continuously (duty cycle ≥ 98%), set the (sweep time) > (number of points in sweep) × (symbol period) (e.g., by a factor of 10 × symbol period × number of points). Increasing the sweep time (i.e., slowing the sweep speed) will allow for averaging over multiple symbols.

Per section 27.53(g) and RSS 130 4.7, the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The limit is adjusted to -19 dBm [-13 dBm -10 log (4)] per FCC KDB 662911D01 v02r01 because the BTS may operate as a 4 port MIMO transmitter.

The limit for the 9kHz to 150kHz frequency range was adjusted to –39dBm to correct for a spectrum analyzer RBW of 1kHz versus required RBW of 100kHz [i.e.: -39dBm = -19dBm -10log(100kHz/1kHz)]. The limit for the 150kHz to 20MHz frequency range was adjusted to –29dBm to correct for a spectrum analyzer RBW of 10kHz versus required RBW of 100kHz [i.e.: -29dBm = -19dBm -10log(100kHz/10kHz)]. The required limit of -19dBm with a RBW of > 100kHz was used for all other frequency ranges.

A preliminary measurement (pre-scan) is made using the spectrum analyzer peak-detector and max hold trace. ANSI C63.26 2015 5.7.4(b) allows for pre-scan to accommodate wide frequency spans. A peak detector can be utilized for these pre-scan measurements. Any emissions detected during the pre-scan measurement that exceeds the required limit shall be further examined/scanned using the specified detector type. In this case the required detector type is the power average(rms) detector.

Multicarrier test cases have been developed as shown below:

Multi-Carrier Test Case 1): 3GPP Band 5G n71 Multicarrier In the Band n71: Three NR5 carriers using two carriers (with minimum spacing between carrier frequencies) at the lower band edge (619.5 & 624.5MHz) 10Watt each and a third carrier with maximum spacing (649.5MHz)60Watts at the upper band edge. The carriers are operated at a maximum power allotted for a total port power of 80 watts. 3GPP Band n85 carrier is not enabled.

Multi-Carrier Test Case 2): 3GPP Band 5G n71 Multicarrier In the Band n71: Two NR5 carriers using with maximum spacing between carrier frequencies. One at the upper band edge (649.5MHz) at 60Watt and the second with maximum spacing (619.5MHz)20Watts at the lower band edge. The carriers are operated at a maximum power for a total port power of 80 watts. 3GPP Band n85 carrier is not enabled.

Multi-Carrier Test Case 3): 3GPP Band LTE 71 Multicarrier In the Band 71: Three LTE5 carriers using two carriers (with minimum spacing between carrier frequencies) at the upper band edge (649.5 & 644.5MHz) at 10Watt each and a

third carrier with maximum spacing (619.5MHz)60Watts at the lower band edge. The carriers are operated at a maximum power for a total port power of 80 watts. 3GPP Band n85 carrier is not enabled.

Multi-Carrier Test Case 4): 3GPP Band 5G n85 Multicarrier In the Band n85: Two NR5 carriers with one at the lower band edge (730.5MHz)40W and the second carrier at maximum spacing at the upper band edge (743.5MHz) 40W. The carriers are operated at maximum power for a total port power of 80 watts. 3GPP Band n71 carrier is not enabled.

Multi-Carrier Test Case 5): 3GPP Band LTE 85 Multicarrier In the Band 85: Three LTE5 carriers with two with minimum spacing at the lower band edge (730.5 and 735.5MHz)10W each and the third carrier at maximum spacing at the upper band edge (743.5MHz)60W. The carriers are operated at maximum power for a total port power of 80 watts. 3GPP Band n71 carrier is not enabled.

Multi-Carrier Test Case 6): 3GPP Band 5G n71 and Band n85 Multicarrier Multiband: Three NR 5MHz carriers using two carriers (with minimum spacing between carrier frequencies) at the Band n71 lower band edge (619.5 & 624.5MHz)10W each and a third carrier with maximum multiband spacing (743.5MHz)60W at the Band n85 upper band edge. The carriers were operated at maximum power for a total port power of 80 watts.

Multi-Carrier Test Case 7): 3GPP Band LTE 71 and Band LTE 85 Multicarrier Multiband: Three LTE5 carriers using two carriers (with minimum spacing between carrier frequencies) at the Band LTE 85 upper band edge (738.5 and 743.5MHz)10W each and a third carrier with maximum multiband spacing (619.5MHz)60W at the Band 71 lower band edge. The carriers were operated at maximum power for a total port power of 80 watts.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Keysight Technologies	N9030B	AGA	2025-06-09	2026-06-09
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

element
TbtTx 2025.09.12.2
WTD.2025.08.28.0

EUT:	Airscale Base Transceiver Station Remote Radio Head Model AHLOB	Work Order:	NOKI0093
Serial Number:	YK220900026	Date:	2026-04-13
Customer:	Nokia Solutions and Networks	Temperature:	27.6°C
Attendees:	Mitch Hill, David Le	Relative Humidity:	43.4%
Customer Project:	None	Bar. Pressure (PMSL):	1014 mbar
Tested By:	Jarrod Brenden	Job Site:	PT14
Power:	54VDC	Configuration:	NOKI0093-1 NOKI0093-2 NOKI0093-3

COMMENTS

All losses in the measurement path were accounted for in the reference level offset; attenuators, filters, cables, and DC blocks. Carriers were enabled at maximum power levels.

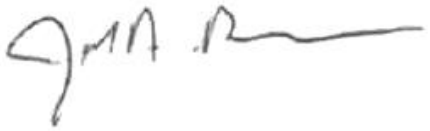
*Average(rms) scan for maximization is used to isolate the specific signal from the noise floor.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass



Tested By

TEST RESULTS

	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
QPSK Modulation					
Multicarrier Test Case 1, 5G-NR Band n71					
	9 kHz - 150 kHz	0.14	-55.2	-39	Pass
	150 kHz - 20 MHz	5	-53.19	-29	Pass
	20 MHz - 1.2 GHz	737.28	-20.01	-19	See Comments
	637.3 MHz - 837.3 MHz*	737.28	-23.917	-19	Pass
	1.2 GHz - 8 GHz	1948	-27.64	-19	Pass
Multicarrier Test Case 2, 5G-NR Band n71					
	9 kHz - 150 kHz	0.14	-55.08	-39	Pass
	150 kHz - 20 MHz	0.69	-53.88	-29	Pass
	20 MHz - 1.2 GHz	737.28	-17.05	-19	See Comments
	637.3 MHz - 837.3 MHz*	737.24	-23.491	-19	Pass
	1.2 GHz - 8 GHz	1947.55	-28.53	-19	Pass
Multicarrier Test Case 3, LTE Band 71					
	9 kHz - 150 kHz	0.14	-54.8	-39	Pass
	150 kHz - 20 MHz	0.21	-52.68	-29	Pass
	20 MHz - 1.2 GHz	737.28	-17.59	-19	See Comments
	637.3 MHz - 837.3 MHz*	737.28	-23.585	-19	Pass
	1.2 GHz - 8 GHz	1884.53	-27.5	-19	Pass

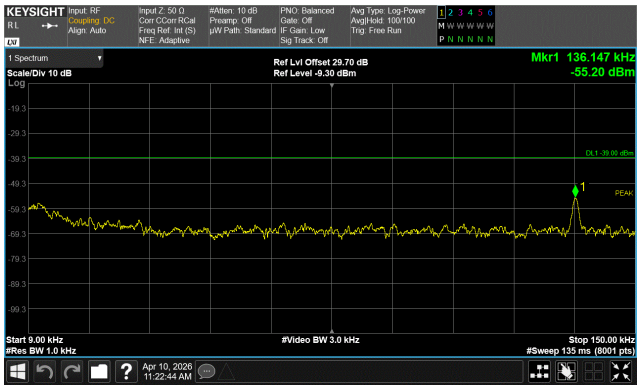
SPURIOUS CONDUCTED EMISSIONS - MULTICARRIER

element
TbtTx 2025.09.12.2
WTD.2025.08.28.0

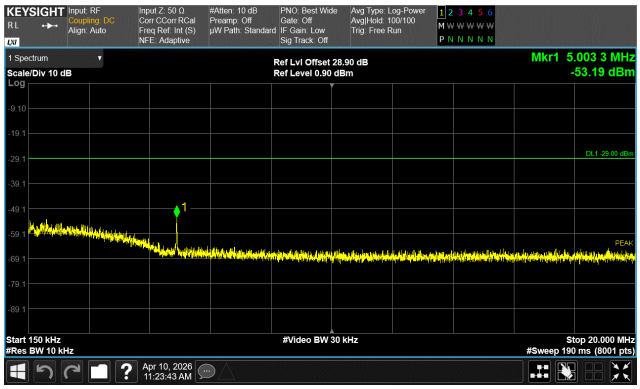
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
Multicarrier Test Case 4, 5G-NR Band n85					
	9 kHz - 150 kHz	0.14	-55.72	-39	Pass
	150 kHz - 20 MHz	0.54	-54.57	-29	Pass
	20 MHz - 1.2 GHz	634	-27.02	-19	See Comments
	534 MHz - 734 MHz*	634	-37.453	-19	Pass
	1.2 GHz - 8 GHz	3099.01	-31.29	-19	Pass
Multicarrier Test Case 5, LTE Band 85					
	9 kHz - 150 kHz	0.14	-55.4	-39	Pass
	150 kHz - 20 MHz	5	-53.08	-29	Pass
	20 MHz - 1.2 GHz	626.72	-24.67	-19	See Comments
	534 MHz - 734 MHz*	634	-37.667	-19	Pass
	1.2 GHz - 8 GHz	2226.8	-30.65	-19	Pass
Multicarrier Test Case 6, 5G-NR Band n71 and n85					
	9 kHz - 150 kHz	0.14	-55.09	-39	Pass
	150 kHz - 20 MHz	5	-53.32	-29	Pass
	20 MHz - 1.2 GHz	968.92	-24.93	-19	Pass
	1.2 GHz - 8 GHz	3112.61	-31.74	-19	Pass
Multicarrier Test Case 7, LTE Band 71 and 85					
	9 kHz - 150 kHz	0.14	-55.28	-39	Pass
	150 kHz - 20 MHz	0.55	-53.63	-29	Pass
	20 MHz - 1.2 GHz	881.99	-26.1	-19	Pass
	1.2 GHz - 8 GHz	1860.05	-30.35	-19	Pass

SPURIOUS CONDUCTED EMISSIONS - MULTICARRIER

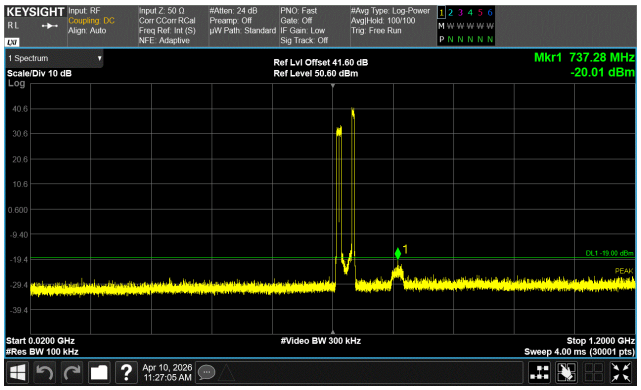
element
TbtTx 2025.09.12.2
WTD.2025.08.28.0



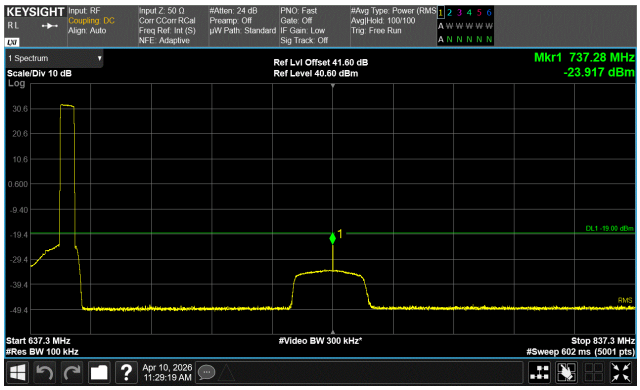
QPSK Modulation
Multicarrier Test Case 1, 5G-NR Band n71



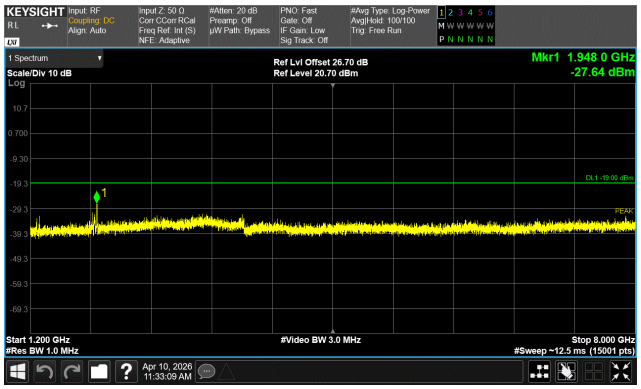
QPSK Modulation
Multicarrier Test Case 1, 5G-NR Band n71



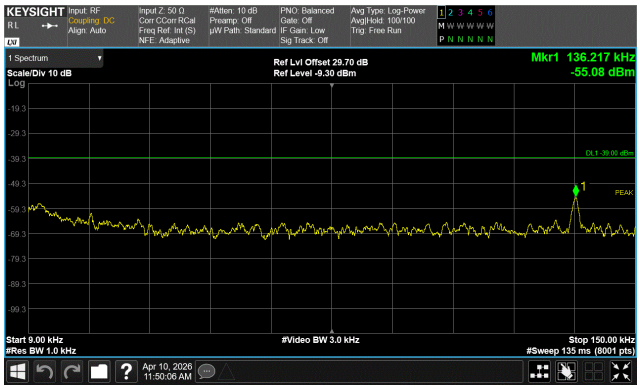
QPSK Modulation
Multicarrier Test Case 1, 5G-NR Band n71



QPSK Modulation
Multicarrier Test Case 1, 5G-NR Band n71*



QPSK Modulation
Multicarrier Test Case 1, 5G-NR Band n71



QPSK Modulation
Multicarrier Test Case 2, 5G-NR Band n71