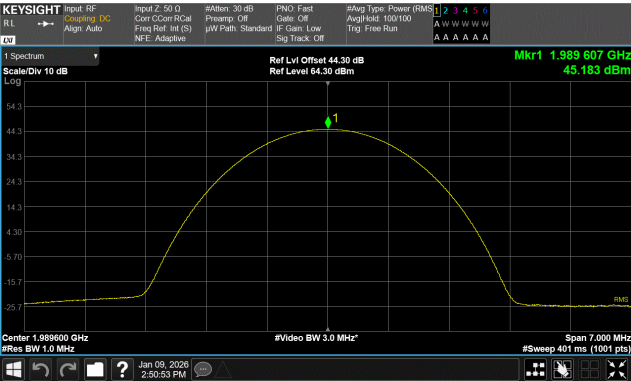
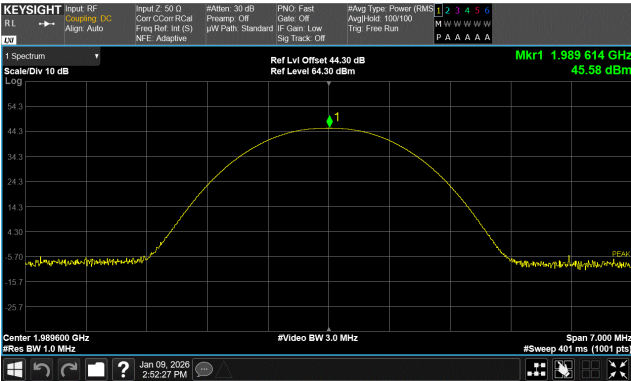


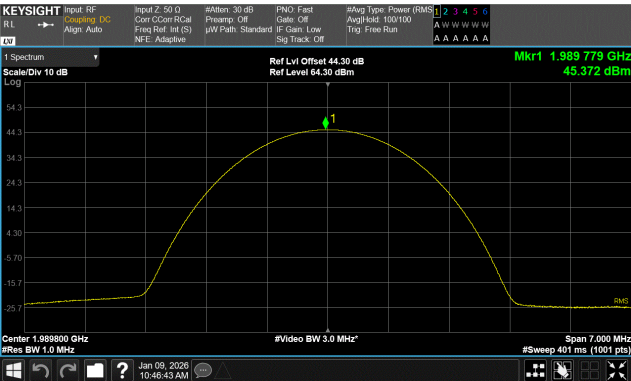
PEAK TO AVERAGE POWER (PAPR) - GSM



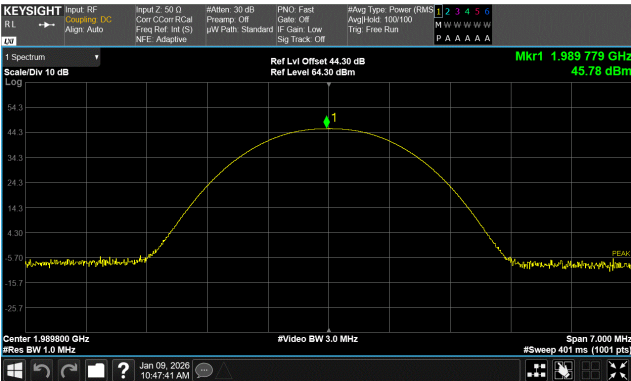
2G GSM/EDGE, PCS Band
GMSK Modulation
High Channel -1, 1989.6 MHz



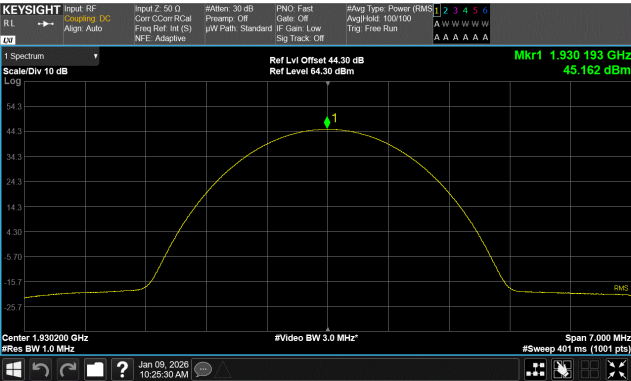
2G GSM/EDGE, PCS Band
GMSK Modulation
High Channel -1, 1989.6 MHz



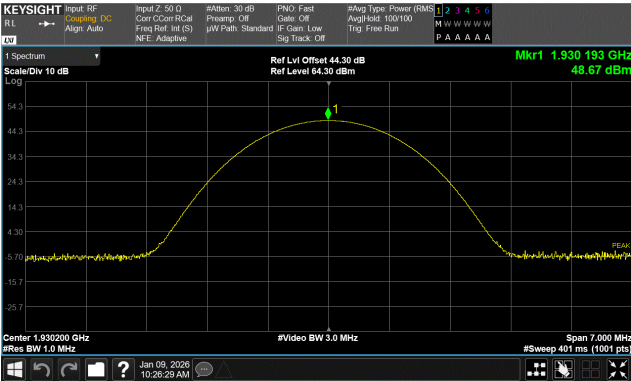
2G GSM/EDGE, PCS Band
GMSK Modulation
High Channel, 1989.8 MHz



2G GSM/EDGE, PCS Band
GMSK Modulation
High Channel, 1989.8 MHz

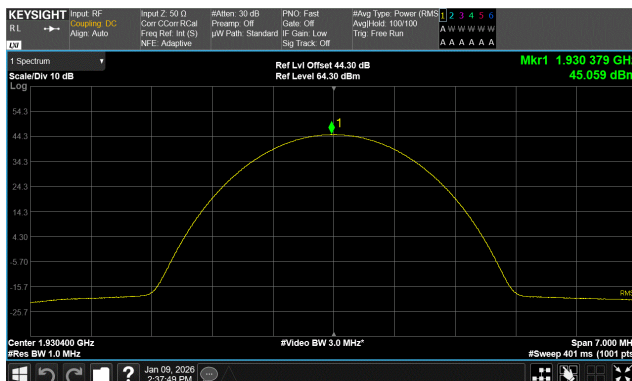


2G GSM/EDGE, PCS Band
8PSK Modulation
Low Channel, 1930.2 MHz

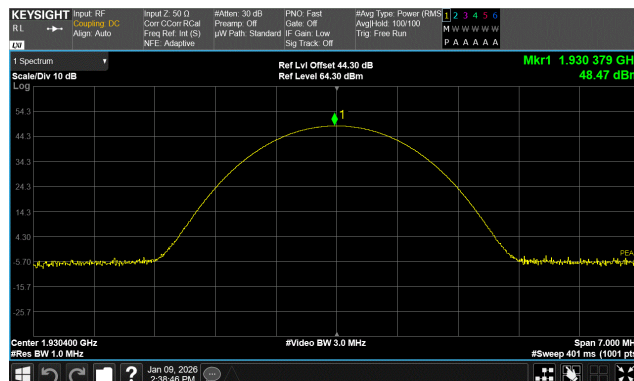


2G GSM/EDGE, PCS Band
8PSK Modulation
Low Channel, 1930.2 MHz

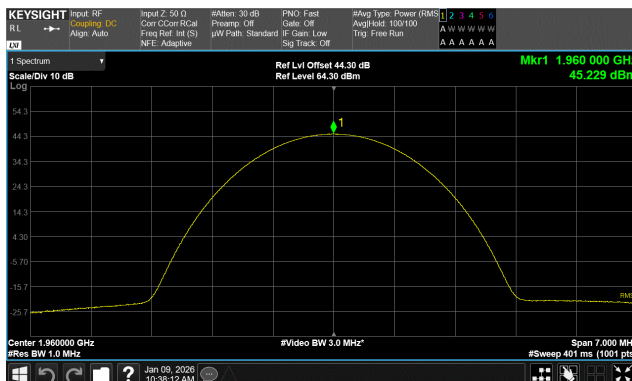
PEAK TO AVERAGE POWER (PAPR) - GSM



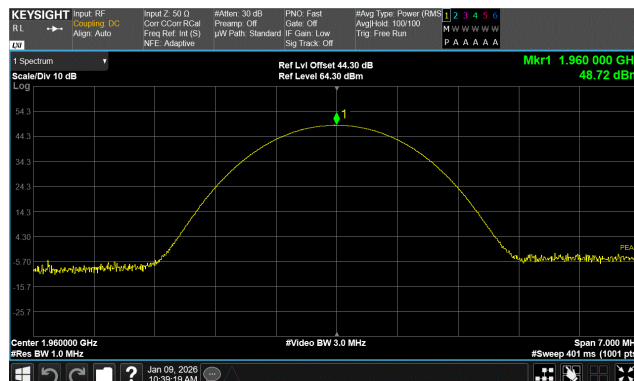
**2G GSM/EDGE, PCS Band
8PSK Modulation
Low Channel +1, 1930.4 MHz**



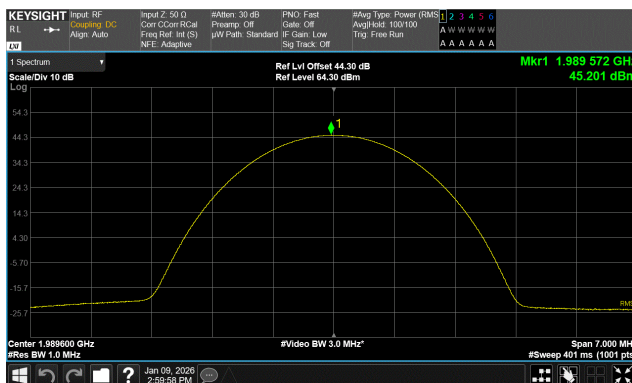
**2G GSM/EDGE, PCS Band
8PSK Modulation
Low Channel +1, 1930.4 MHz**



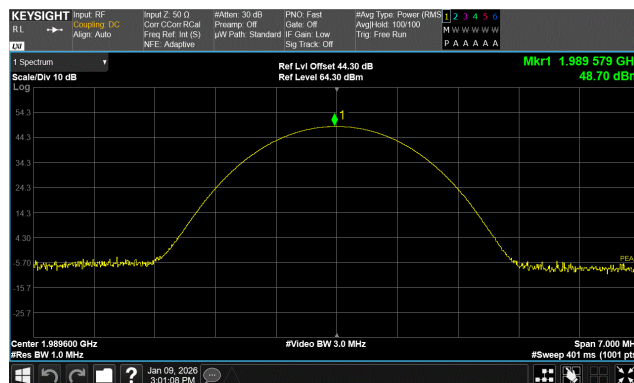
**2G GSM/EDGE, PCS Band
8PSK Modulation
Middle Channel, 1960.0 MHz**



**2G GSM/EDGE, PCS Band
8PSK Modulation
Middle Channel, 1960.0 MHz**

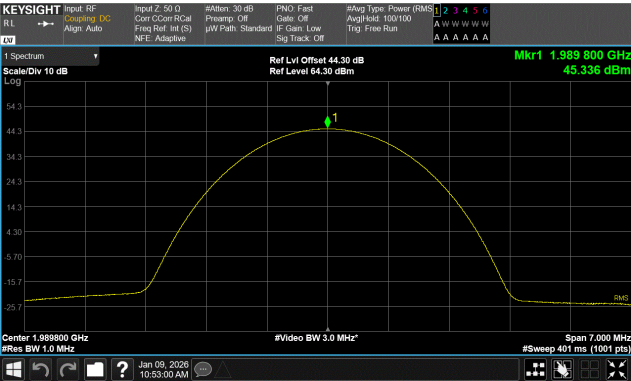


**2G GSM/EDGE, PCS Band
8PSK Modulation
High Channel -1, 1989.6 MHz**

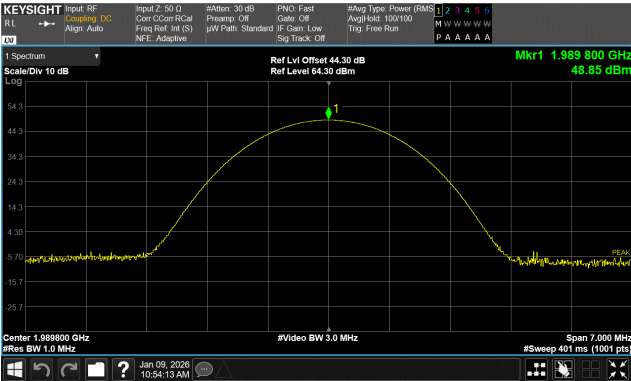


**2G GSM/EDGE, PCS Band
8PSK Modulation
High Channel -1, 1989.6 MHz**

PEAK TO AVERAGE POWER (PAPR) - GSM



2G GSM/EDGE, PCS Band
8PSK Modulation
High Channel, 1989.8 MHz



2G GSM/EDGE, PCS Band
8PSK Modulation
High Channel, 1989.8 MHz

OCCUPIED BANDWIDTH - WCDMA

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 AHFII 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 of this report). 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.

The method in section 5.4 of ANSI C63.26 was used to make this measurement. The spectrum analyzer settings were as follows:

- RBW is 1% - 5% of the occupied bandwidth
- VBW is $\geq 3x$ the RBW
- Peak Detector was used
- Trace max hold was used

The occupied bandwidth was measured with the EUT configured in the modes called out in the data sheets. FCC 27.53(H)(3) defines the 26dB emission bandwidth requirement.

The occupied bandwidth was measured with the EUT configured in the modes called out in the data sheets. FCC 24.238(b) defines the 26dB emission bandwidth requirement.

FCC Emission Designators for 3G WCDMA PCS Band (1930MHz to 1990MHz)				
Ch BW	Radio Channel	WCDMA: QPSK	WCDMA: 16QAM	WCDMA: 64QAM
		FCC	FCC	FCC
5MHz	Low	4M61F9W		
	Mid	4M60F9W	4M59F9W	4M60F9W
	High	4M61F9W		
Note: FCC emission designators are based on 26dB emission bandwidth.				

FCC Emission Designators for 3G WCDMA AWS Band (2110MHz to 2170MHz)				
Ch BW	Radio Channel	WCDMA: QPSK	WCDMA: 16QAM	WCDMA: 64QAM
		FCC	FCC	FCC
5MHz	Low	4M60F9W		
	Mid	4M59F9W	4M62F9W	4M60F9W
	High	4M61F9W		
Note: FCC emission designators are based on 26dB emission bandwidth				

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.

OCCUPIED BANDWIDTH - WCDMA

EUT:	Airscale Base Transceiver Station Radio Unit Model AHFI	Work Order:	NOKI0090
Serial Number:	AH251400352	Date:	2026-01-13
Customer:	Nokia Solutions and Networks	Temperature:	28.6°C
Attendees:	John Rattanaovong, David Le	Relative Humidity:	17.9%
Customer Project:	None	Bar. Pressure (PMSL):	1022 mbar
Tested By:	Jarrold Brenden	Job Site:	PT14
Power:	54VDC	Configuration:	NOKI0090-2

COMMENTS

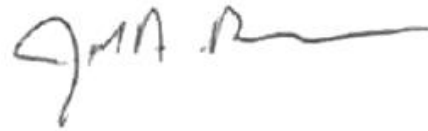
All losses in the measurement path were accounted for in the reference level offset; attenuators, filters, cables, and DC blocks. Carriers were enabled at maximum power levels.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

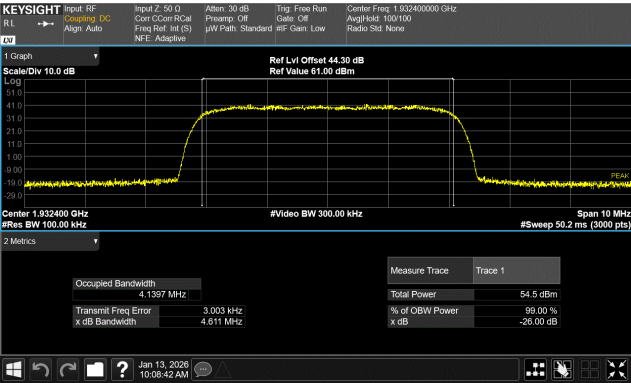


Tested By

TEST RESULTS

	Value 99% (MHz)	Value 26dB (MHz)	Limit	Result
3G WCDMA, PCS Band				
QPSK Modulation				
Low Channel, 1932.4 MHz	4.14 MHz	4.611 MHz	Within	Pass
Middle Channel, 1960.0 MHz	4.146 MHz	4.601 MHz	Within	Pass
High Channel, 1987.6 MHz	4.153 MHz	4.61 MHz	Within	Pass
16QAM Modulation				
Middle Channel, 1960.0 MHz	4.154 MHz	4.592 MHz	Within	Pass
64QAM Modulation				
Middle Channel, 1960.0 MHz	4.145 MHz	4.602 MHz	Within	Pass
3G WCDMA, AWS Band				
QPSK Modulation				
Low Channel, 2112.4 MHz	4.146 MHz	4.601 MHz	Within	Pass
Middle Channel, 2140.0 MHz	4.139 MHz	4.588 MHz	Within	Pass
High Channel, 2167.6 MHz	4.141 MHz	4.612 MHz	Within	Pass
16QAM Modulation				
Middle Channel, 2140.0 MHz	4.142 MHz	4.619 MHz	Within	Pass
64QAM Modulation				
Middle Channel, 2140.0 MHz	4.144 MHz	4.597 MHz	Within	Pass

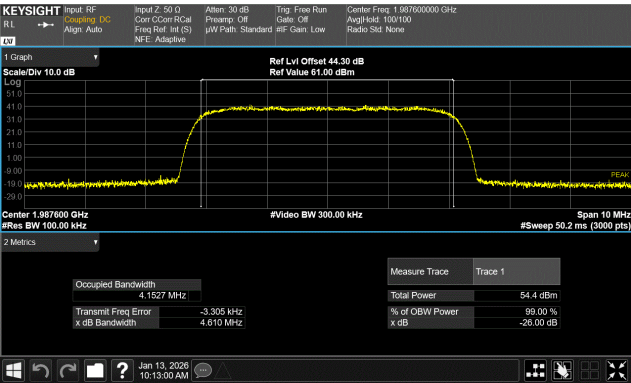
OCCUPIED BANDWIDTH - WCDMA



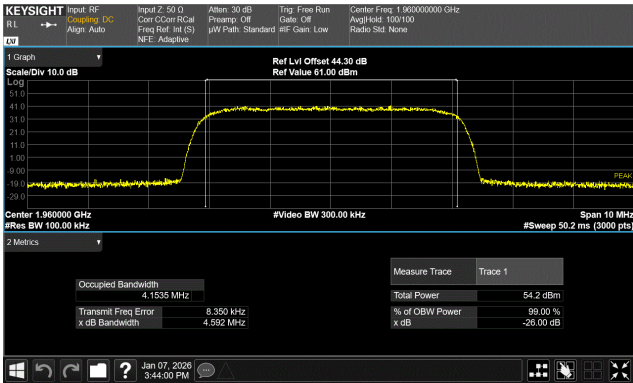
3G WCDMA, PCS Band
QPSK Modulation
Low Channel, 1932.4 MHz



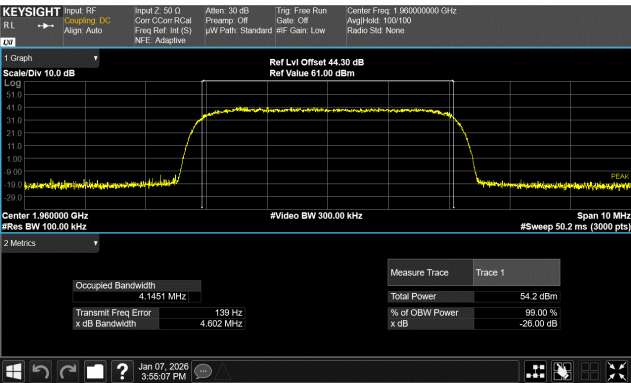
3G WCDMA, PCS Band
QPSK Modulation
Middle Channel, 1960.0 MHz



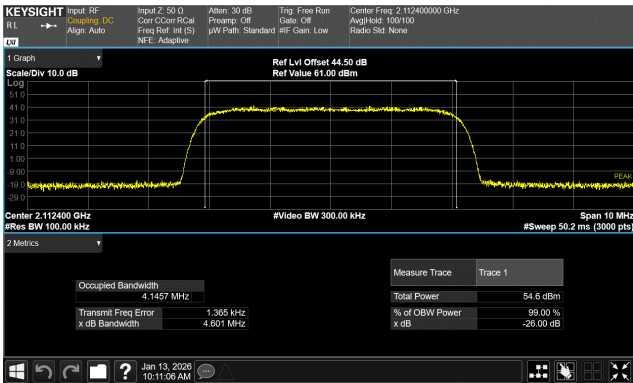
3G WCDMA, PCS Band
QPSK Modulation
High Channel, 1987.6 MHz



3G WCDMA, PCS Band
16QAM Modulation
Middle Channel, 1960.0 MHz



3G WCDMA, PCS Band
64QAM Modulation
Middle Channel, 1960.0 MHz



3G WCDMA, AWS Band
QPSK Modulation
Low Channel, 2112.4 MHz

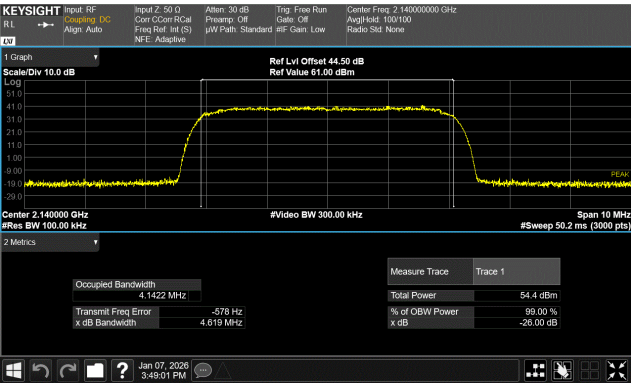
OCCUPIED BANDWIDTH - WCDMA



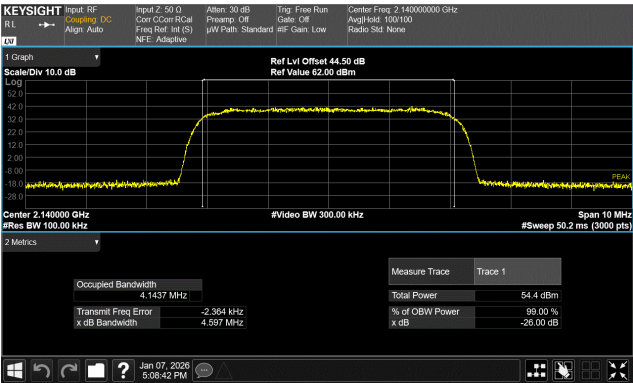
3G WCDMA, AWS Band
QPSK Modulation
Middle Channel, 2140.0 MHz



3G WCDMA, AWS Band
QPSK Modulation
High Channel, 2167.6 MHz



3G WCDMA, AWS Band
16QAM Modulation
Middle Channel, 2140.0 MHz



3G WCDMA, AWS Band
64QAM Modulation
Middle Channel, 2140.0 MHz

OCCUPIED BANDWIDTH – GSM

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 AHFII 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 of this report). 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.

The method in section 5.4 of ANSI C63.26 was used to make this measurement. The spectrum analyzer settings were as follows:

- RBW is 1% - 5% of the occupied bandwidth
- VBW is $\geq 3x$ the RBW
- Peak Detector was used
- Trace max hold was used

The occupied bandwidth was measured with the EUT configured in the modes called out in the data sheets. FCC 24.238(b) defines the 26dB emission bandwidth requirement.

FCC GSM/EDGE Emission Designators for 2G GSM PCS Band (1930MHz to 1990MHz)		
Radio Channel	GSM - GMSK	EDGE – 8PSK
	FCC	FCC
Low	316KGXW	301KG7W
Mid	315KGXW	304KG7W
High	315KGXW	305KG7W
Note: FCC emission designators are based on 26dB emission bandwidth.		

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Keysight Technologies	N9030B	AGA	2025-06-09	2026-06-09
Antenna - Double Ridge	ETS Lindgren	3115	AJN	2024-09-27	2026-09-27
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.

OCCUPIED BANDWIDTH – GSM

EUT:	Airscale Base Transceiver Station Radio Unit Model AHFI	Work Order:	NOKI0090
Serial Number:	AH251400352	Date:	2026-01-09
Customer:	Nokia Solutions and Networks	Temperature:	28.7°C
Attendees:	John Rattanaovong, David Le	Relative Humidity:	18.5%
Customer Project:	None	Bar. Pressure (PMSL):	1021 mbar
Tested By:	Jarrod Brenden	Job Site:	PT14
Power:	54VDC	Configuration:	NOKI0090-2

COMMENTS

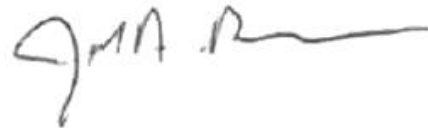
All losses in the measurement path were accounted for in the reference level offset; attenuators, filters, cables, and DC blocks. Carriers were enabled at maximum power levels.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

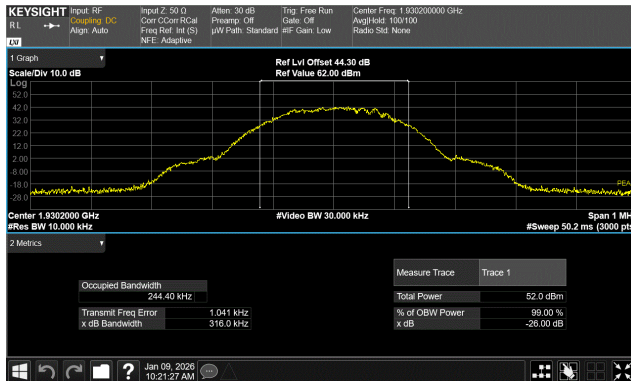


Tested By

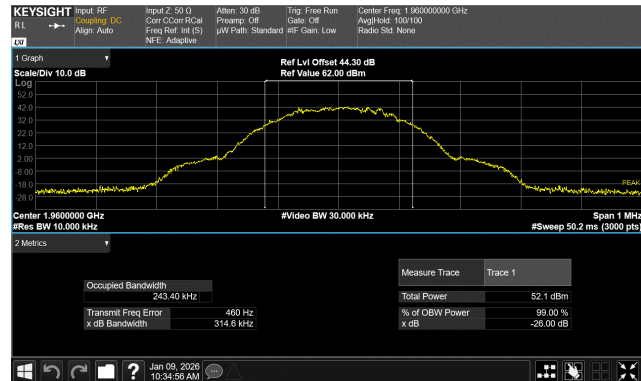
TEST RESULTS

	Value 99% (MHz)	Value 26dB (MHz)	Limit	Result
2G GSM/EDGE, PCS Band				
GMSK Modulation				
Low Channel, 1930.2 MHz	244.4 kHz	316.04 kHz	Within	Pass
Middle Channel, 1960.0 MHz	243.398 kHz	314.591 kHz	Within	Pass
High Channel, 1989.8 MHz	243.882 kHz	314.564 kHz	Within	Pass
8PSK Modulation				
Low Channel, 1930.2 MHz	241.255 kHz	300.937 kHz	Within	Pass
Middle Channel, 1960.0 MHz	240.669 kHz	303.865 kHz	Within	Pass
High Channel, 1989.8 MHz	240.894 kHz	305.053 kHz	Within	Pass

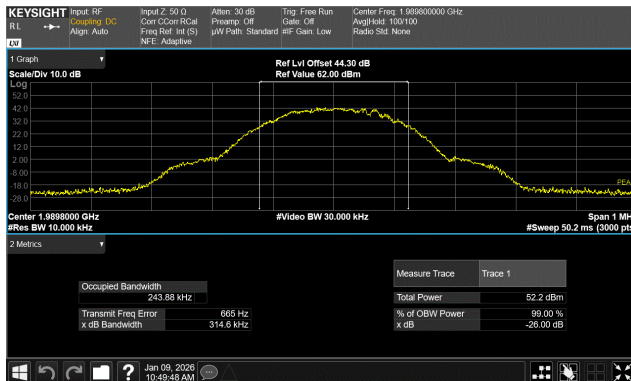
OCCUPIED BANDWIDTH – GSM



2G GSM/EDGE, PCS Band
GMSK Modulation
Low Channel, 1930.2 MHz



2G GSM/EDGE, PCS Band
GMSK Modulation
Middle Channel, 1960.0 MHz



2G GSM/EDGE, PCS Band
GMSK Modulation
High Channel, 1989.8 MHz



2G GSM/EDGE, PCS Band
8PSK Modulation
Low Channel, 1930.2 MHz



2G GSM/EDGE, PCS Band
8PSK Modulation
Middle Channel, 1960.0 MHz



2G GSM/EDGE, PCS Band
8PSK Modulation
High Channel, 1989.8 MHz

BAND EDGE COMPLIANCE - WCDMA

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 spectrum was scanned below the lower band edge and above the higher band edge. All limits were adjusted by a factor of $[-10 \cdot \log(2)]$ dB to account for the device operation as a 2 port MIMO transmitter, as per FCC KDB 622911.

Per section 27.53(h)(1), the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The limit is adjusted to -16 dBm $[-13 \text{ dBm} - 10 \log(2)]$ per FCC KDB 662911D01 v02r01 because the BTS may operate as a 2 port MIMO transmitter.

The RBW to be used for these measurements are per 27.53(h)(3). Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified).

Per section 24.238(a) and RSS-133 6.5(i), the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The limit is adjusted to -16 dBm $[-13 \text{ dBm} - 10 \log(2)]$ per FCC KDB 662911D01 v02r01 because the BTS may operate as a 2 port MIMO transmitter.

The RBW to be used for these measurements are per 24.238(b). Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1-megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified).

RF conducted emissions testing was performed only one port. The testing was performed on the same version of hardware (AHFII) as the original certification test. The AHFII antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown in this certification testing) and antenna port 1 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraph 5.7.2i.

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 - WCDMA

EUT:	Airscale Base Transceiver Station Radio Unit Model AHFI	Work Order:	NOKI0090
Serial Number:	AH251400352	Date:	2026-01-08
Customer:	Nokia Solutions and Networks	Temperature:	28.7°C
Attendees:	John Rattanaovong, David Le	Relative Humidity:	17.9%
Customer Project:	None	Bar. Pressure (PMSL):	1021 mbar
Tested By:	Jarrod Brenden	Job Site:	PT14
Power:	54VDC	Configuration:	NOKI0090-2

COMMENTS

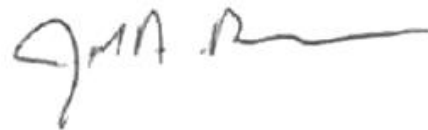
All losses in the measurement path were accounted for in the reference level offset; attenuators, filters, cables, and DC blocks. Carriers were enabled at maximum power levels.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass



Tested By

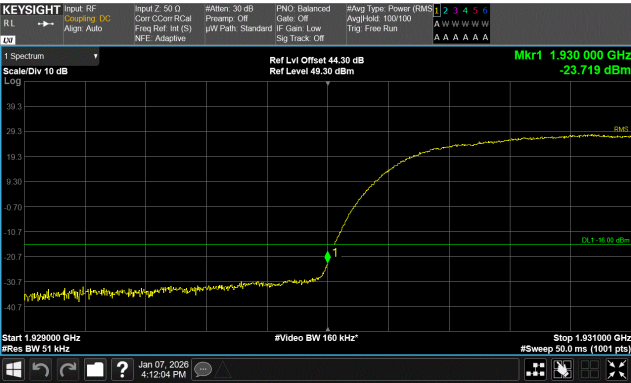
TEST RESULTS

	Frequency Range	Frequency (MHz)	Value (dBm)	Limit (dBm)	Result
3G WCDMA					
QPSK Modulation					
PCS Band					
Low Channel, 1932.4 MHz	1929 MHz - 1931 MHz	1930	-23.719	-16.0	Pass
	1928 MHz - 1929 MHz	1928.5	-25.24	-16.0	Pass
	1918 MHz - 1928 MHz	1927.72	-25.545	-16.0	Pass
High Channel, 1987.6 MHz	1989 MHz - 1991 MHz	1990	-24.331	-16.0	Pass
	1991 MHz - 1992 MHz	1991.5	-25.43	-16.0	Pass
	1992 MHz - 2002 MHz	1992.13	-26.062	-16.0	Pass
AWS Band					
Low Channel, 2112.4 MHz	2109 MHz - 2111 MHz	2110	-24.468	-16.0	Pass
	2108 MHz - 2109 MHz	2108.5	-24.11	-16.0	Pass
	2098 MHz - 2108 MHz	2107.92	-23.413	-16.0	Pass
High Channel, 2167.6 MHz	2169 MHz - 2171 MHz	2170	-23.034	-16.0	Pass
	2171 MHz - 2172 MHz	2171.5	-24.94	-16.0	Pass
	2172 MHz - 2182 MHz	2172.25	-25.031	-16.0	Pass
16QAM Modulation					
PCS Band					
Low Channel, 1932.4 MHz	1929 MHz - 1931 MHz	1930	-23.402	-16.0	Pass
	1928 MHz - 1929 MHz	1928.5	-25.64	-16.0	Pass
	1918 MHz - 1928 MHz	1927.92	-26.293	-16.0	Pass
High Channel, 1987.6 MHz	1989 MHz - 1991 MHz	1990	-24.127	-16.0	Pass
	1991 MHz - 1992 MHz	1991.5	-25.63	-16.0	Pass
	1992 MHz - 2002 MHz	1992.08	-25.531	-16.0	Pass

BAND EDGE COMPLIANCE - WCDMA

	Frequency Range	Frequency (MHz)	Value (dBm)	Limit (dBm)	Result
AWS Band					
Low Channel, 2112.4 MHz	2109 MHz - 2111 MHz	2110	-23.646	-16.0	Pass
	2108 MHz - 2109 MHz	2108.5	-25.32	-16.0	Pass
	2098 MHz - 2108 MHz	2107.11	-25.43	-16.0	Pass
High Channel, 2167.6 MHz	2169 MHz - 2171 MHz	2170	-24.683	-16.0	Pass
	2171 MHz - 2172 MHz	2171.5	-25.13	-16.0	Pass
	2172 MHz - 2182 MHz	2172.1	-24.906	-16.0	Pass
64QAM Modulation					
PCS Band					
Low Channel, 1932.4 MHz	1929 MHz - 1931 MHz	1930	-24.41	-16.0	Pass
	1928 MHz - 1929 MHz	1928.5	-25.65	-16.0	Pass
	1918 MHz - 1928 MHz	1927.64	-26.23	-16.0	Pass
High Channel, 1987.6 MHz	1989 MHz - 1991 MHz	1990	-24.299	-16.0	Pass
	1991 MHz - 1992 MHz	1991.5	-25.27	-16.0	Pass
	1992 MHz - 2002 MHz	1992.1	-26.09	-16.0	Pass
AWS Band					
Low Channel, 2112.4 MHz	2109 MHz - 2111 MHz	2110	-24.038	-16.0	Pass
	2108 MHz - 2109 MHz	2108.5	-23.94	-16.0	Pass
	2098 MHz - 2108 MHz	2107.69	-23.586	-16.0	Pass
High Channel, 2167.6 MHz	2169 MHz - 2171 MHz	2170	-24.038	-16.0	Pass
	2171 MHz - 2172 MHz	2171.5	-25.09	-16.0	Pass
	2172 MHz - 2182 MHz	2172.08	-25.661	-16.0	Pass

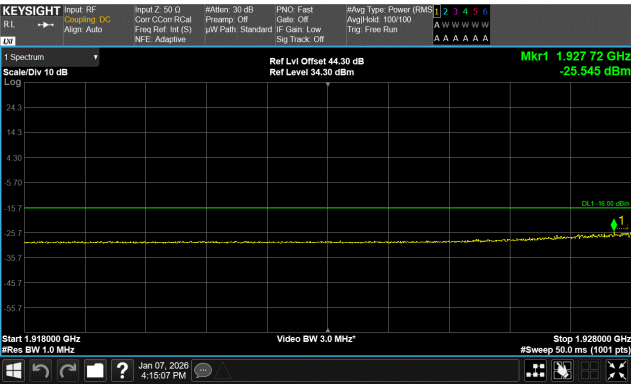
BAND EDGE COMPLIANCE - WCDMA



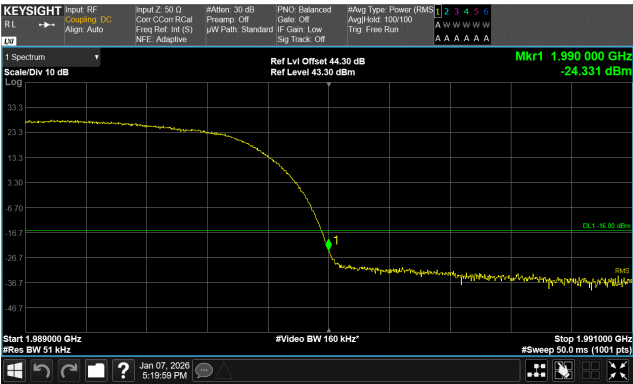
3G WCDMA
QPSK Modulation
PCS Band
Low Channel, 1932.4 MHz
1929 MHz - 1931 MHz



3G WCDMA
QPSK Modulation
PCS Band
Low Channel, 1932.4 MHz
1928 MHz - 1929 MHz

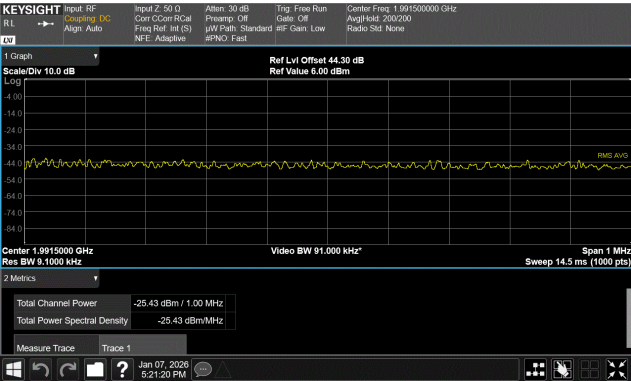


3G WCDMA
QPSK Modulation
PCS Band
Low Channel, 1932.4 MHz
1918 MHz - 1928 MHz

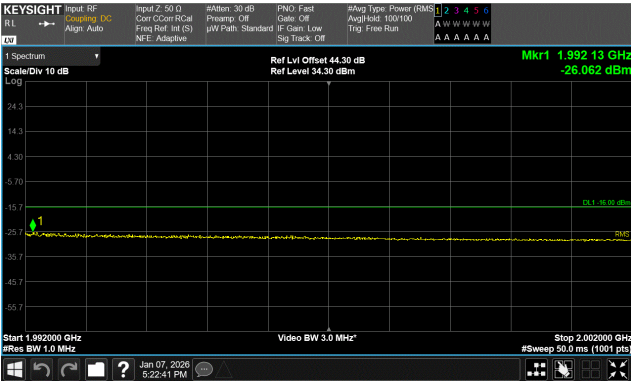


3G WCDMA
QPSK Modulation
PCS Band
High Channel, 1987.6 MHz
1989 MHz - 1991 MHz

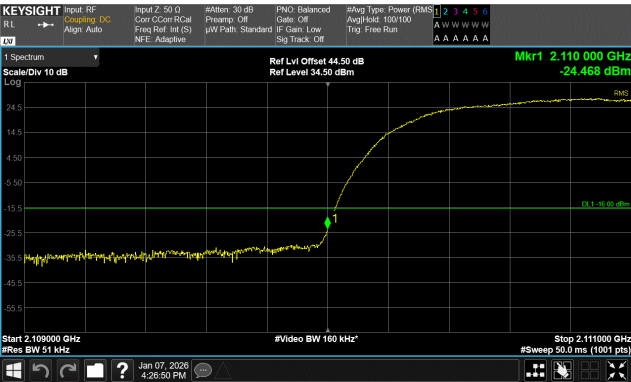
BAND EDGE COMPLIANCE - WCDMA



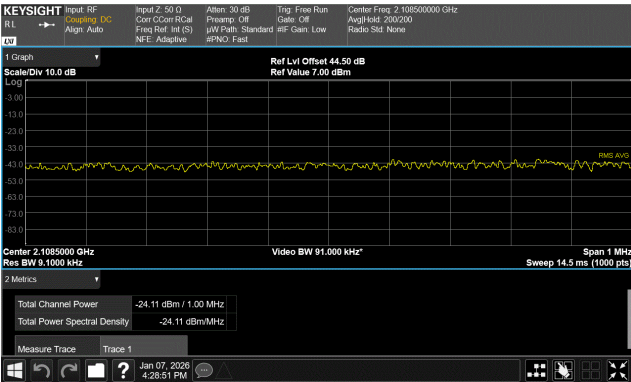
3G WCDMA
QPSK Modulation
PCS Band
High Channel, 1987.6 MHz
1991 MHz - 1992 MHz



3G WCDMA
QPSK Modulation
PCS Band
High Channel, 1987.6 MHz
1992 MHz - 2002 MHz

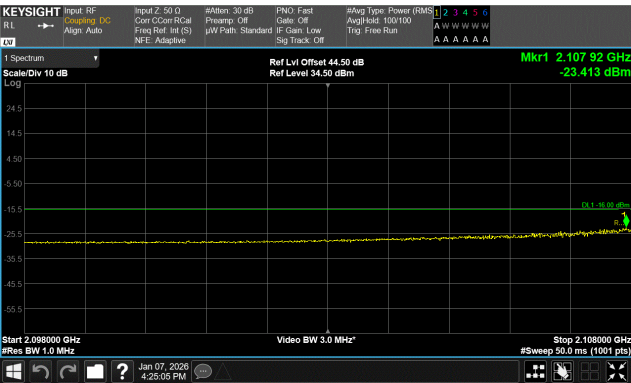


3G WCDMA
QPSK Modulation
AWS Band
Low Channel, 2112.4 MHz
2109 MHz - 2111 MHz

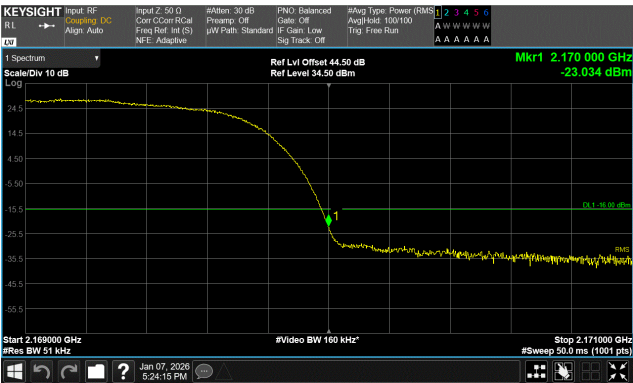


3G WCDMA
QPSK Modulation
AWS Band
Low Channel, 2112.4 MHz
2108 MHz - 2109 MHz

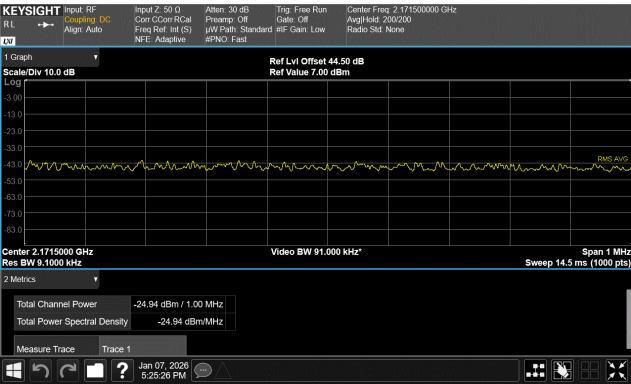
BAND EDGE COMPLIANCE - WCDMA



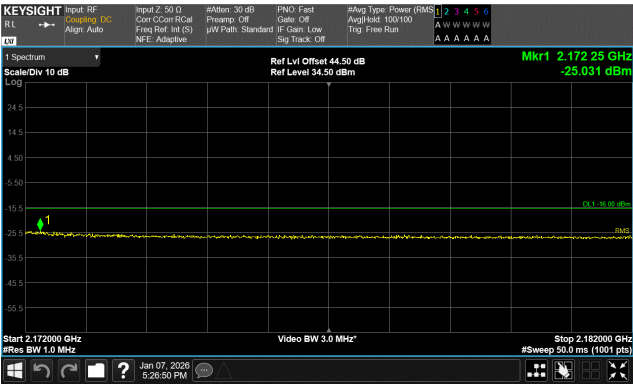
3G WCDMA
QPSK Modulation
AWS Band
Low Channel, 2112.4 MHz
2098 MHz - 2108 MHz



3G WCDMA
QPSK Modulation
AWS Band
High Channel, 2167.6 MHz
2169 MHz - 2171 MHz

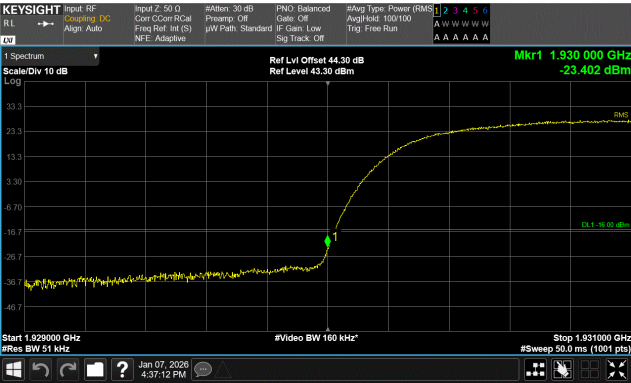


3G WCDMA
QPSK Modulation
AWS Band
High Channel, 2167.6 MHz
2171 MHz - 2172 MHz



3G WCDMA
QPSK Modulation
AWS Band
High Channel, 2167.6 MHz
2172 MHz - 2182 MHz

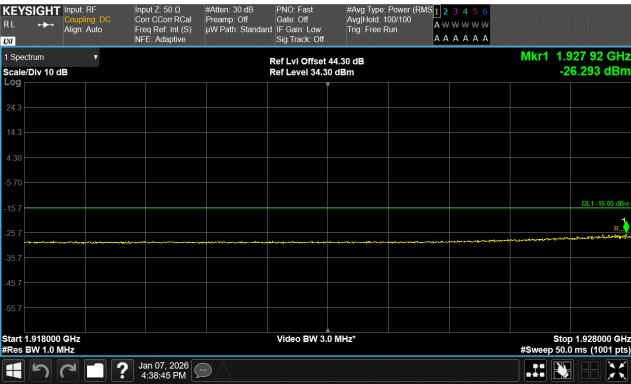
BAND EDGE COMPLIANCE - WCDMA



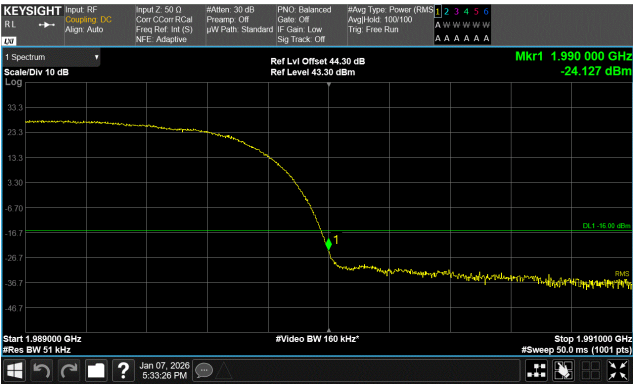
3G WCDMA
16QAM Modulation
PCS Band
Low Channel, 1932.4 MHz
1929 MHz - 1931 MHz



3G WCDMA
16QAM Modulation
PCS Band
Low Channel, 1932.4 MHz
1928 MHz - 1929 MHz

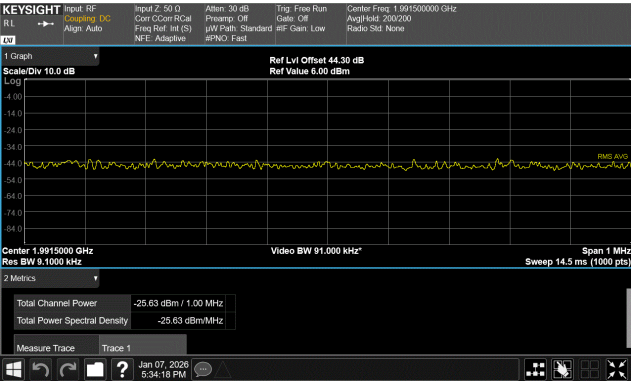


3G WCDMA
16QAM Modulation
PCS Band
Low Channel, 1932.4 MHz
1918 MHz - 1928 MHz

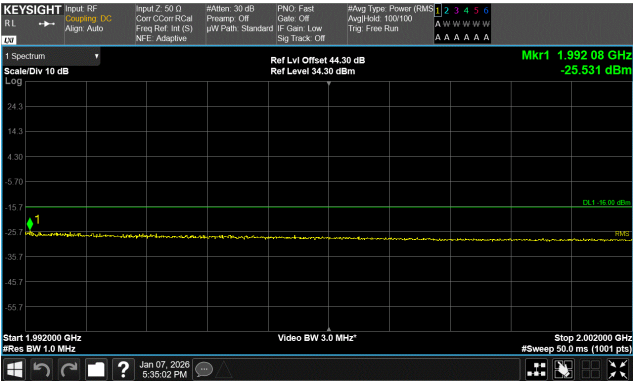


3G WCDMA
16QAM Modulation
PCS Band
High Channel, 1987.6 MHz
1989 MHz - 1991 MHz

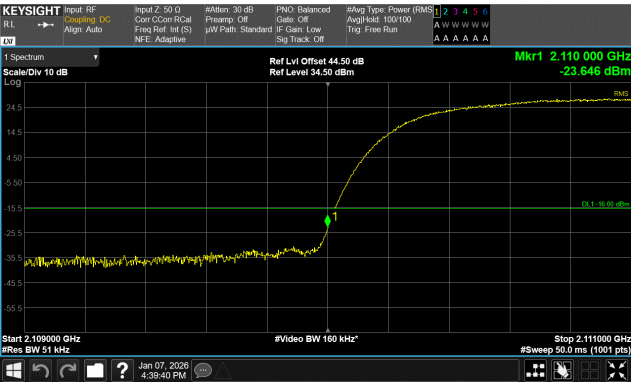
BAND EDGE COMPLIANCE - WCDMA



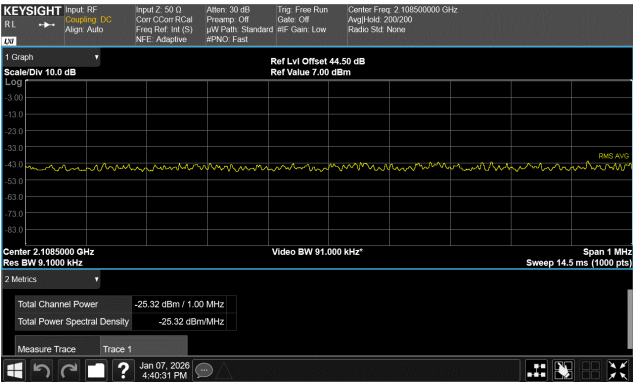
3G WCDMA
16QAM Modulation
PCS Band
High Channel, 1987.6 MHz
1991 MHz - 1992 MHz



3G WCDMA
16QAM Modulation
PCS Band
High Channel, 1987.6 MHz
1992 MHz - 2002 MHz

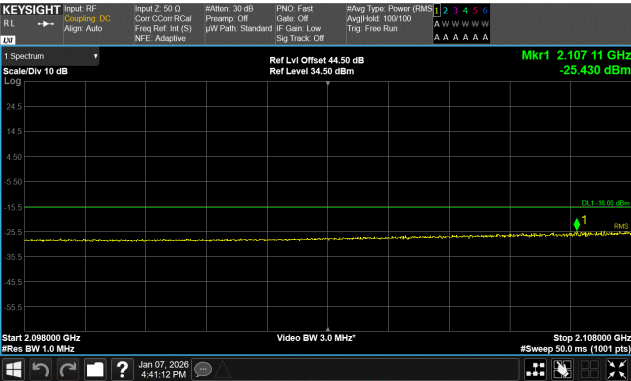


3G WCDMA
16QAM Modulation
AWS Band
Low Channel, 2112.4 MHz
2109 MHz - 2111 MHz

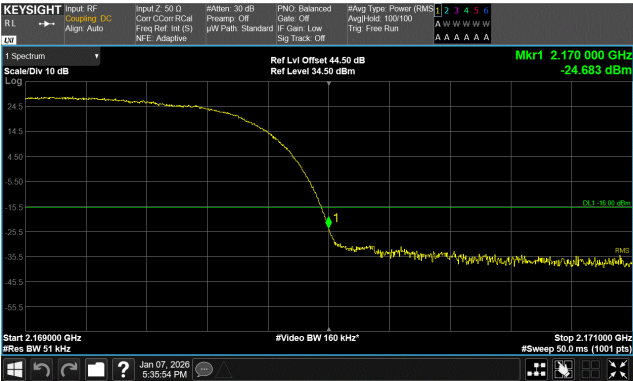


3G WCDMA
16QAM Modulation
AWS Band
Low Channel, 2112.4 MHz
2108 MHz - 2109 MHz

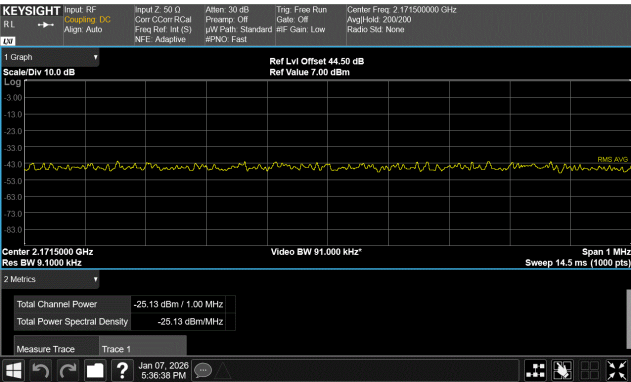
BAND EDGE COMPLIANCE - WCDMA



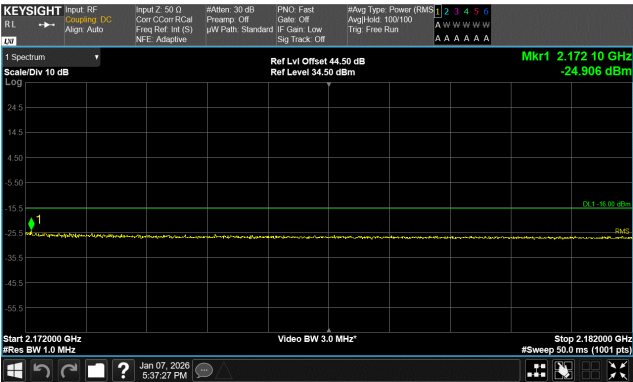
3G WCDMA
16QAM Modulation
AWS Band
Low Channel, 2112.4 MHz
2098 MHz - 2108 MHz



3G WCDMA
16QAM Modulation
AWS Band
High Channel, 2167.6 MHz
2169 MHz - 2171 MHz

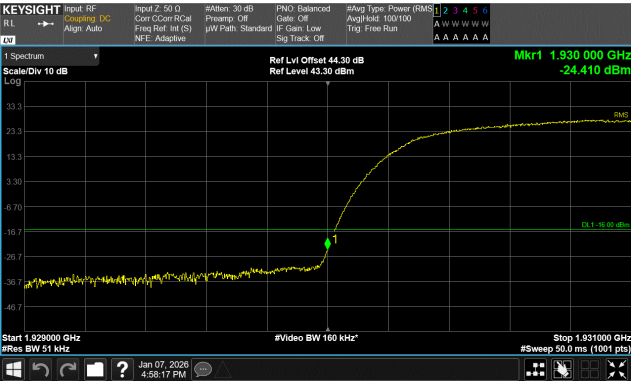


3G WCDMA
16QAM Modulation
AWS Band
High Channel, 2167.6 MHz
2171 MHz - 2172 MHz

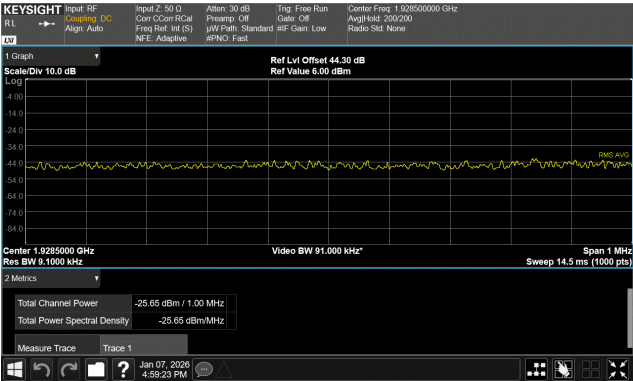


3G WCDMA
16QAM Modulation
AWS Band
High Channel, 2167.6 MHz
2172 MHz - 2182 MHz

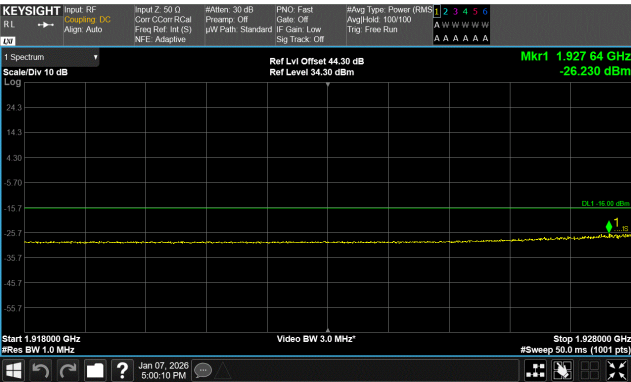
BAND EDGE COMPLIANCE - WCDMA



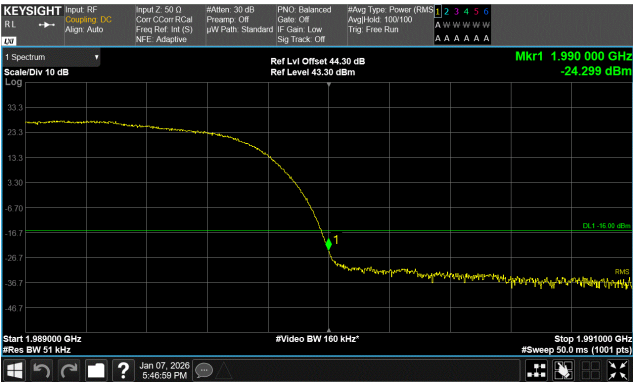
3G WCDMA
64QAM Modulation
PCS Band
Low Channel, 1932.4 MHz
1929 MHz - 1931 MHz



3G WCDMA
64QAM Modulation
PCS Band
Low Channel, 1932.4 MHz
1928 MHz - 1929 MHz

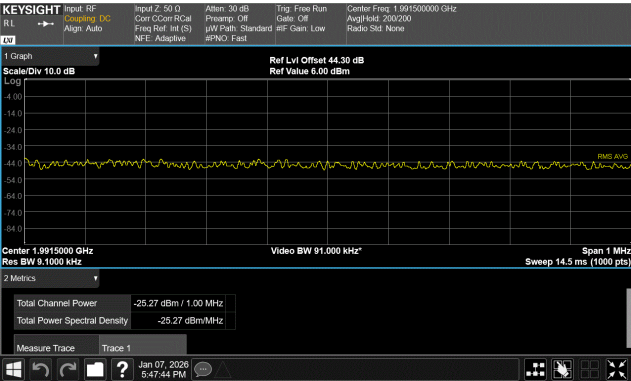


3G WCDMA
64QAM Modulation
PCS Band
Low Channel, 1932.4 MHz
1918 MHz - 1928 MHz

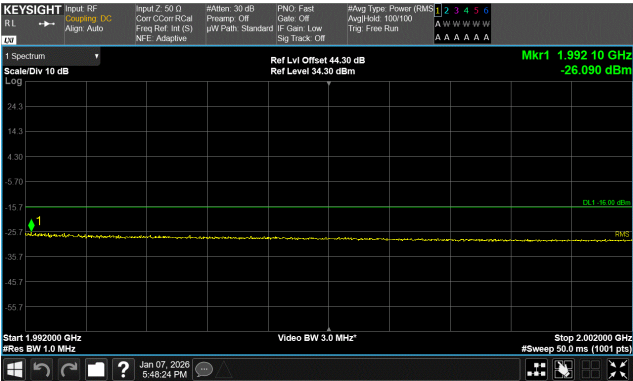


3G WCDMA
64QAM Modulation
PCS Band
High Channel, 1987.6 MHz
1989 MHz - 1991 MHz

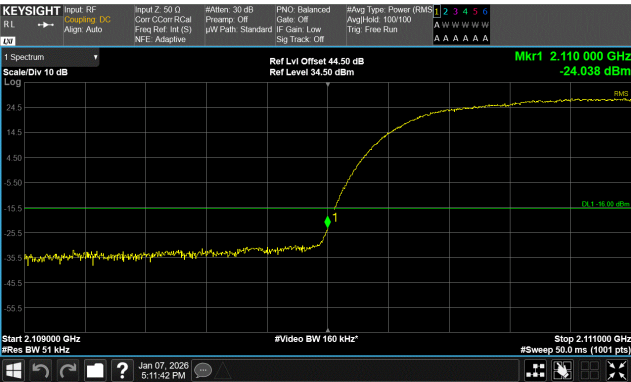
BAND EDGE COMPLIANCE - WCDMA



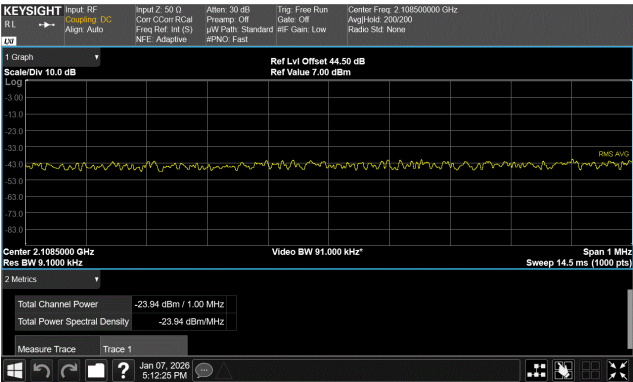
3G WCDMA
64QAM Modulation
PCS Band
High Channel, 1987.6 MHz
1991 MHz - 1992 MHz



3G WCDMA
64QAM Modulation
PCS Band
High Channel, 1987.6 MHz
1992 MHz - 2002 MHz

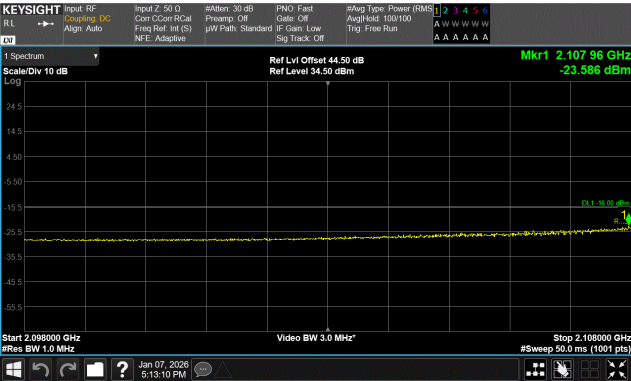


3G WCDMA
64QAM Modulation
AWS Band
Low Channel, 2112.4 MHz
2109 MHz - 2111 MHz

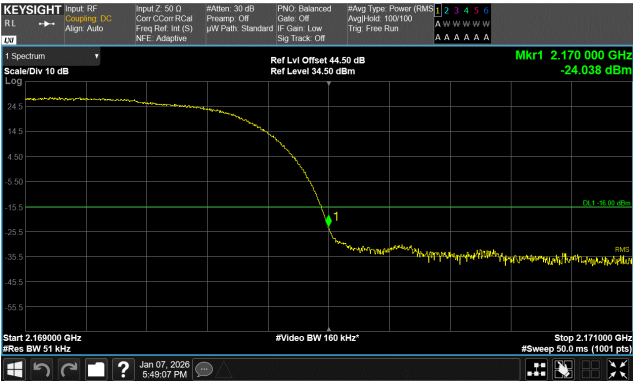


3G WCDMA
64QAM Modulation
AWS Band
Low Channel, 2112.4 MHz
2108 MHz - 2109 MHz

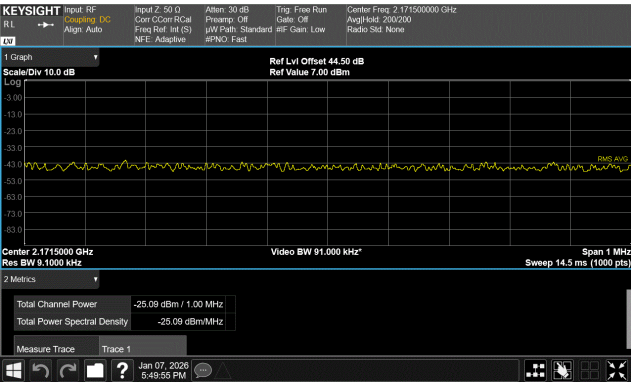
BAND EDGE COMPLIANCE - WCDMA



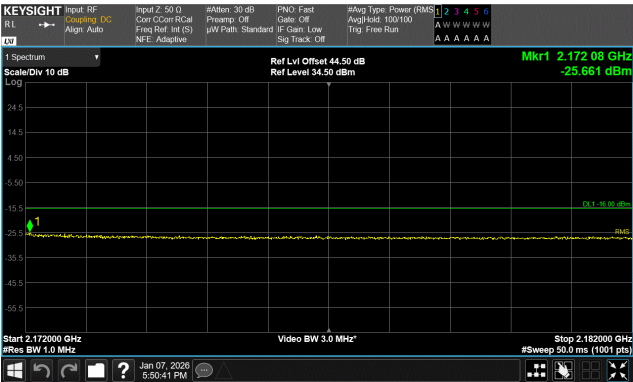
3G WCDMA
64QAM Modulation
AWS Band
Low Channel, 2112.4 MHz
2098 MHz - 2108 MHz



3G WCDMA
64QAM Modulation
AWS Band
High Channel, 2167.6 MHz
2169 MHz - 2171 MHz



3G WCDMA
64QAM Modulation
AWS Band
High Channel, 2167.6 MHz
2171 MHz - 2172 MHz



3G WCDMA
64QAM Modulation
AWS Band
High Channel, 2167.6 MHz
2172 MHz - 2182 MHz

BAND EDGE COMPLIANCE - GSM

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 spectrum was scanned below the lower band edge and above the higher band edge. The power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm as specified in section 24.238(a). The GSM/EDGE carriers are not MIMO.

The RBW to be used for these measurements are per fcc 24.238(b). Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1-megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified).

RF conducted emissions testing was performed only one port. The testing was performed on the same version of hardware (AHFII) as the original certification test. The AHFII antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown in this certification testing) and antenna port 1 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraph 5.7.2i.

2G GSM RF conducted spurious emissions at band edge measurements will be made twice to demonstrate compliance – at reduced 2G GSM carrier power at band edge channel (1930.2MHz and 1989.8MHz) and at full 2G GSM carrier power (40W) at one channel in (i.e.: 1930.2 +1 channel) and 1989.8MHz -1 channel) from the band edge channel.

2G GSM carriers are required to be operated in Multi Standard Radio mode (MSR) with a different Radio Access Technologies (RAT – 3GWCdma, 4GLTE, and 5GNR) in the PCS band.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Keysight Technologies	N9030B	AGA	2025-06-09	2026-06-09
Antenna - Double Ridge	ETS Lindgren	3115	AJN	2024-09-27	2026-09-27
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 - GSM



EUT:	Airscale Base Transceiver Station Radio Unit Model AHFI	Work Order:	NOKI0090
Serial Number:	AH251400352	Date:	2026-01-09
Customer:	Nokia Solutions and Networks	Temperature:	28.5°C
Attendees:	John Rattanaovong, David Le	Relative Humidity:	18.8%
Customer Project:	None	Bar. Pressure (PMSL):	1021 mbar
Tested By:	Jarrod Brenden	Job Site:	PT14
Power:	54VDC	Configuration:	NOKI0090-2

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

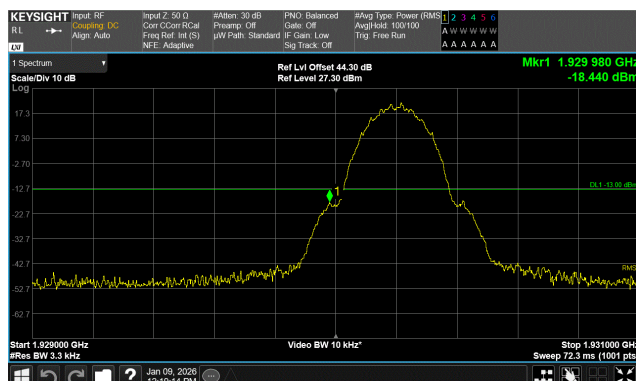
	Frequency Range	Frequency (MHz)	Value (dBm)	Limit (dBm)	Result
2G GSM/EDGE					
Reduced Power					
GMSK Modulation					
Low Channel, 1930.2 MHz	1929 MHz - 1931 MHz	1929.98	-18.44	-13.0	Pass
	1928 MHz - 1929 MHz	1928.5	-26.69	-13.0	Pass
	1918 MHz - 1928 MHz	1927.86	-27.227	-13.0	Pass
High Channel, 1989.8 MHz	1989 MHz - 1991 MHz	1990.016	-18.378	-13.0	Pass
	1991 MHz - 1992 MHz	1991.5	-26.75	-13.0	Pass
	1992 MHz - 2002 MHz	1992.87	-27.544	-13.0	Pass
8PSK Modulation					
Low Channel, 1930.2 MHz	1929 MHz - 1931 MHz	1929.98	-18.03	-13.0	Pass
	1928 MHz - 1929 MHz	1928.5	-26.72	-13.0	Pass
	1918 MHz - 1928 MHz	1927.72	-27.126	-13.0	Pass
High Channel, 1989.8 MHz	1989 MHz - 1991 MHz	1990.02	-18.489	-13.0	Pass
	1991 MHz - 1992 MHz	1991.5	-26.65	-13.0	Pass
	1992 MHz - 2002 MHz	1992.35	-27.29	-13.0	Pass
Bottom +1, Top -1					
GMSK Modulation					
Low Channel, 1930.4 MHz	1929 MHz - 1931 MHz	1930	-36.825	-13.0	Pass
	1928 MHz - 1929 MHz	1928.5	-21.66	-13.0	Pass
	1918 MHz - 1928 MHz	1927.99	-22.463	-13.0	Pass
High Channel, 1989.6 MHz	1989 MHz - 1991 MHz	1990	-36.11	-13.0	Pass
	1991 MHz - 1992 MHz	1991.5	-24.81	-13.0	Pass
	1992 MHz - 2002 MHz	1992	-24.705	-13.0	Pass

BAND EDGE COMPLIANCE - GSM

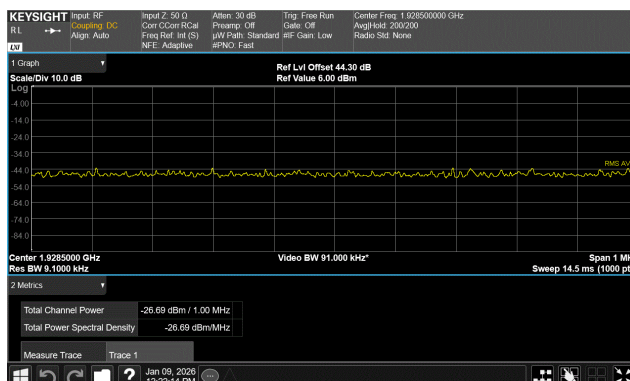


	Frequency Range	Frequency (MHz)	Value (dBm)	Limit (dBm)	Result
8PSK Modulation					
Low Channel, 1930.4 MHz	1929 MHz - 1931 MHz	1930	-35.678	-13.0	Pass
	1928 MHz - 1929 MHz	1928.5	-19.59	-13.0	Pass
	1918 MHz - 1928 MHz	1927.98	-19.747	-13.0	Pass
High Channel, 1989.6 MHz	1989 MHz - 1991 MHz	1990	-36.258	-13.0	Pass
	1991 MHz - 1992 MHz	1991.5	-23.61	-13.0	Pass
	1992 MHz - 2002 MHz	1992.08	-23.454	-13.0	Pass

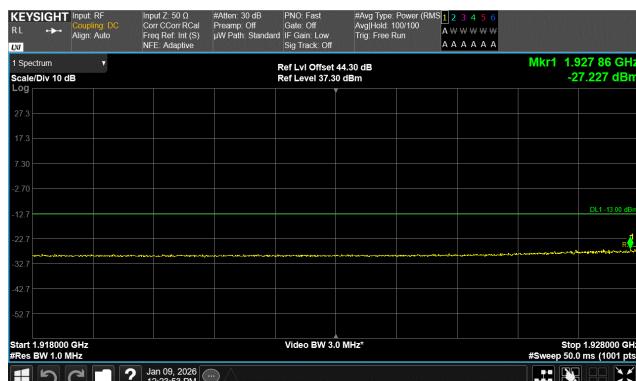
BAND EDGE COMPLIANCE - GSM



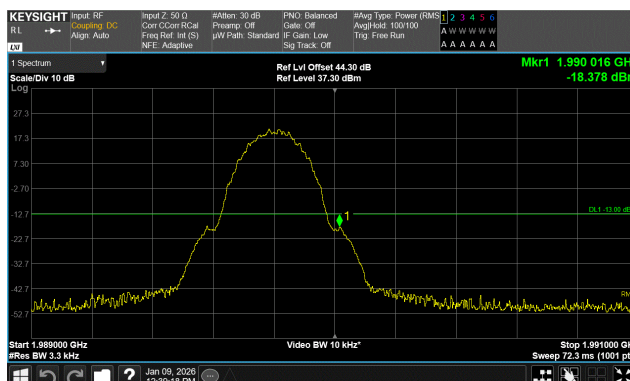
Reduced Power
GMSK Modulation
Low Channel, 1930.2 MHz
1929 MHz - 1931 MHz



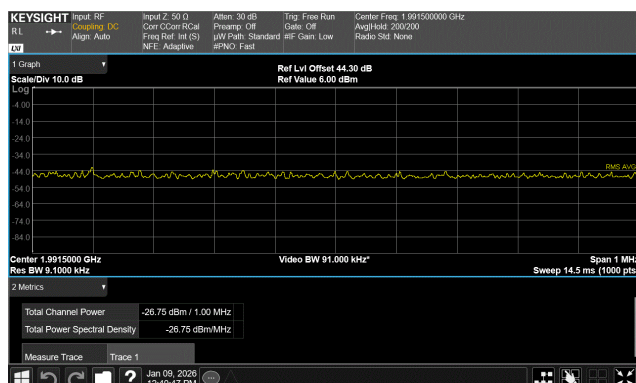
Reduced Power
GMSK Modulation
Low Channel, 1930.2 MHz
1928 MHz - 1929 MHz



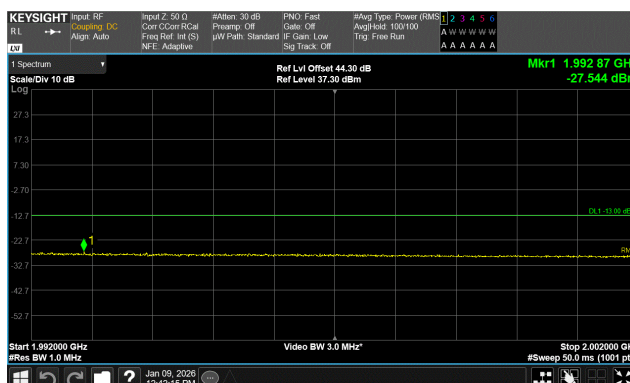
Reduced Power
GMSK Modulation
Low Channel, 1930.2 MHz
1918 MHz - 1928 MHz



Reduced Power
GMSK Modulation
High Channel, 1989.8 MHz
1989 MHz - 1991 MHz



Reduced Power
GMSK Modulation
High Channel, 1989.8 MHz
1991 MHz - 1992 MHz



Reduced Power
GMSK Modulation
High Channel, 1989.8 MHz
1992 MHz - 2002 MHz