

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.

TEST EQUIPMENT

| Description | Manufacturer | Model | ID | Last Cal. | Cal. Due |
|------------------------------|--------------------|--------|-----|------------|------------|
| Block - DC | Fairview Microwave | SD3239 | ANE | 2022-03-02 | 2023-03-02 |
| Generator - Signal | Agilent | N5173B | TIW | 2020-07-17 | 2023-07-17 |
| Analyzer - Spectrum Analyzer | Keysight | N9010A | AFQ | 2022-01-17 | 2023-01-17 |

TEST DESCRIPTION

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 plan 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. These measurements are for the frequency band after the first 100 kHz bands immediately outside and adjacent to the frequency block.

AHLBBA antenna ports 1&4 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 paragraphs 5.2.5.3, 5.7.2i and 6.4.

AHLBBA antenna ports 2&3 are essentially electrically identical (the RF power variation between antenna ports is small as shown in this certification testing) and antenna port 2 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraphs 5.2.5.3, 5.7.2i and 6.4.

Per section 90.543(e)(3) and RSS 140 4.4 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 for Band n14. FCC 90.543(e)(5) and RSS 140 4.4b requires a >100 kHz measurement bandwidth for emissions 100 kHz outside of the RRH operating frequency range.

Per section 90.543(f) and RSS 140 4.4, for the frequency range 1559-1610 MHz the EIRP limit is -70dBW/MHz for wideband signals and -80dBW for discrete emissions of bandwidths less than 700Hz. This equates to an EIRP of -40dBm/MHz for wideband emissions and -50dBm/MHz for discrete emissions. The limit is adjusted to -46 dBm [-40 dBm -10 log (4)] for wideband signals and -56dBm [-50 dBm -10 log (4)] for discrete emissions 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. (See ANSI C63.26-2015 paragraph 5.7.2a for details on the Limit/RBW scaling method)



| | | F00//05D | | | 147 | TbtTx 2022.05.02.0 | XMit 2022.02.07.0 |
|---------------------|--|---|---|---------------------------|-------------------|--------------------|-------------------|
| EU Serial Number | 1. AHLBBA (C2PC/C3PC 1. K9193514835 | FGG/ISED) | | | Work Order: | 4-Aug-22 | |
| Customer | r: Nokia Solutions and N | etworks | | | Temperature: | 22.2 °C | |
| Attendees | s: Mitchell Hill | | | | Humidity: | 53% RH | |
| Projec Tested by | y: Marty Martin | P | ower: 54VDC | | Job Site | TX07 | |
| TEST SPECIFICA | TIONS | | Test Method | | | | |
| FCC 27:2022 | 2018 | | ANSI C63.26:2015 | | | | |
| FCC 90R:2022 | . 2010 | | ANSI C63.26:2015 | | | | |
| COMMENTS | | | | | | | |
| All measurement | t path losses were accour | nted for in the reference level offset including attenu | ators, cables, DC block and filter when | in use. Band n12 and Band | n14 carriers were | operating at maxi | mum power in |
| eacn applicable t | DM TEST STANDARD | ai port power of 80 watts. | | | | | |
| None | | | | | | | |
| Configuration # | 1. 2. 3 | Mat | Mat | | | | |
| | .,_, • | Signature | Masta | | | | |
| | | | Frequency | Measured | Max Value | Limit | Recult |
| Port 1 | | | Tunge | | (abiii) | - (abiii) | Nooun |
| | Band n14, 758 - 768 Mh | 1Z | | | | | |
| | o MHZ Bar | QPSK Modulation | | | | | |
| | | Mid Channel, 763 MHz | 9 kHz - 150 kHz | 0.01 | -51.8 | -39 | Pass |
| | | Mid Channel, 763 MHz Mid Channel, 763 MHz | 150 KHZ - 20 MHZ 20 MHz - 1.2 GHz | 0.15 737 | -49.2 -38.4 | -29 -19 | Pass |
| | | Mid Channel, 763 MHz | 1.2 GHz - 8 GHz | 4013.16 | -36.4 | -19 | Pass |
| | | 16QAM Modulation Mid Channel 763 MHz | 9 kHz - 150 kHz | 0.01 | -52.0 | _30 | Page |
| | | Mid Channel, 763 MHz | 150 kHz - 20 MHz | 0.15 | -48.3 | -29 | Pass |
| | | Mid Channel, 763 MHz | 20 MHz - 1.2 GHz | 737 | -38.6 | -19 | Pass |
| | | 64QAM Modulation | 1.2 GHZ - 8 GHZ | 4015.2 | -36.4 | -19 | Pass |
| | | Mid Channel, 763 MHz | 9 kHz - 150 kHz | 0.01 | -51.6 | -39 | Pass |
| | | Mid Channel, 763 MHz Mid Channel, 763 MHz | 150 kHz - 20 MHz 20 MHz - 1 2 GHz | 0.15 | -48.8 | -29 | Pass |
| | | Mid Channel, 763 MHz | 1.2 GHz - 8 GHz | 4014.52 | -36.5 | -19 | Pass |
| | | 256QAM Modulation | | 0.04 | E0.4 | 20 | Derr |
| | | Mid Channel, 763 MHZ Mid Channel, 763 MHz | 9 кнz - тоџ кнz 150 kHz - 20 MHz | 0.01 | -52.4 -48.6 | -39 -29 | Pass |
| | | Mid Channel, 763 MHz | 20 MHz - 1.2 GHz | 737 | -38.3 | -19 | Pass |
| | 10 MHz Pa | Mid Channel, 763 MHz andwidth | 1.2 GHz - 8 GHz | 4014.52 | -36.4 | -19 | Pass |
| | | 256QAM Modulation | | | | | |
| | | Mid Channel, 763 MHz Mid Channel, 763 MHz | 9 kHz - 150 kHz | 0.01 | -51.9 | -39 | Pass |
| | | Mid Channel, 763 MHz | 20 MHz - 1.2 GHz | 737 | | -29 -19 | Pass |
| Dort 0 | | Mid Channel, 763 MHz | 1.2 GHz - 8 GHz | 4026.76 | -36.4 | -19 | Pass |
| POIL 2 | Band n14, 758 - 768 Mh | IZ | | | | | |
| | 5 MHz Bar | ndwidth | | | | | |
| | | QPSK Modulation Mid Channel 763 MHz | 9 kHz - 150 kHz | 0.01 | -51.5 | -39 | Pass |
| | | Mid Channel, 763 MHz | 150 kHz - 20 MHz | 0.15 | -48.7 | -29 | Pass |
| | | Mid Channel, 763 MHz | 20 MHz - 1.2 GHz | 737 | -39.3 | -19 | Pass |
| | | 16QAM Modulation | 1.2 GHZ - 0 GHZ | 4032.2 | -30.0 | -19 | Pass |
| | | Mid Channel, 763 MHz | 9 kHz - 150 kHz | 0.01 | -51.9 | -39 | Pass |
| | | Mid Channel, 763 MHz Mid Channel, 763 MHz | 150 kHz - 20 MHz 20 MHz - 1 2 GHz | 0.15 | -49.2 -39.7 | -29 | Pass |
| | | Mid Channel, 763 MHz | 1.2 GHz - 8 GHz | 4037.64 | -36.5 | -19 | Pass |
| | | 64QAM Modulation Mid Channel 763 MHz | 9 kHz - 150 kHz | 0.01 | -51.8 | _30 | Page |
| | | Mid Channel, 763 MHz | 150 kHz - 20 MHz | 0.15 | -48.7 | -39 | Pass |
| | | Mid Channel, 763 MHz | 20 MHz - 1.2 GHz | 737 | -39.7 | -19 | Pass |
| | | 256QAM Modulation | 1.2 GHZ - 8 GHZ | 4019.96 | -36.5 | -19 | Pass |
| | | Mid Channel, 763 MHz | 9 kHz - 150 kHz | 0.01 | -52.1 | -39 | Pass |
| | | Mid Channel, 763 MHz Mid Channel, 763 MHz | 150 kHz - 20 MHz 20 MHz - 1.2 GHz | 0.15 | -48.7 -39.6 | -29 -19 | Pass |
| | _ | Mid Channel, 763 MHz | 1.2 GHz - 8 GHz | 4021.32 | -36.5 | -19 | Pass |
| | 10 MHz Ba | 256QAM Modulation | | | | | |
| | | Mid Channel, 763 MHz | 9 kHz - 150 kHz | 0.01 | -51.7 | -39 | Pass |
| | | Mid Channel, 763 MHz | 150 kHz - 20 MHz | 0.15 | -49.2 | -29 | Pass |
| | | Mid Channel, 763 MHz Mid Channel, 763 MHz | 20 MHZ - 1.2 GHZ 1.2 GHz - 8 GHz | 737 4011.8 | -36.5 -36.4 | - 19 -19 | Pass Pass |
| Port 1 | Dan I dd ard d | | | | | - | |
| | Band n14, 758 - 768 Mh 5 MHz Ban | 12 ndwidth | | | | | |
| | J WI 12 DBI | QPSK Modulation | | | | | |
| | | Mid Channel, 763 MHz | 1.559 GHz - 1.61 GHz | 1600.11 | -62.7 | -46 | Pass |
| | | Mid Channel, 763 MHz | 1.559 GHz - 1.61 GHz | 1609.72 | -62.6 | -46 | Pass |
| | | 64QAM Modulation | 4.550.011 | | oc = | | 5 |
| | | 256QAM Modulation | 1.059 GHZ - 1.61 GHZ | 1604.83 | -62.7 | -46 | Pass |
| | | Mid Channel, 763 MHz | 1.559 GHz - 1.61 GHz | 1603 | -62.6 | -46 | Pass |
| | 10 MHz Ba | andwidth 256QAM Modulation | | | | | |
| | | Mid Channel, 763 MHz | 1.559 GHz - 1.61 GHz | 1608.03 | -62.6 | -46 | Pass |
| Port 2 | Band n14 750 700 to | 7 | | | | | |
| | 5 MHz Bar | ndwidth | | | | | |
| | | QPSK Modulation | 4550.011 | | 00.0 | 1- | 5 |
| | | ма Channel, 763 MHz 16QAM Modulation | 1.559 GHz - 1.61 GHz | 1606.36 | -62.6 | -46 | Pass |
| | | Mid Channel, 763 MHz | 1.559 GHz - 1.61 GHz | 1609.55 | -62.7 | -46 | Pass |
| | | 64QAM Modulation | 1 550 CH7 1 61 CH- | 4602.04 | 62.6 | 10 | Deee |
| | | 256QAM Modulation | 1.000 GHZ - 1.01 GHZ | 1002.61 | -02.0 | -40 | r dSS |
| | | Mid Channel, 763 MHz | 1.559 GHz - 1.61 GHz | 1609.65 | -62.6 | -46 | Pass |
| | 10 MHz Ba | 256QAM Modulation | | | | | |
| | | Mid Channel, 763 MHz | 1.559 GHz - 1.61 GHz | 1605.34 | -62.6 | -46 | Pass |





| Port 1, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, QPSK Modulation, Mid Channel, 763 MHz | | | | | | | |
|---|------------|-----------|---------|--------|--|--|--|
| Frequency | Measured | Max Value | Limit | | | | |
| Range | Freq (MHz) | (dBm) | < (dBm) | Result | | | |
| 150 kHz - 20 MHz | 0.15 | -49.23 | -29 | Pass | | | |

| RL | RF 50 9 | DC COR | REC | SENSE:IN | П | ALIGN AUTO | | 07:13:4 | 5 AM Aug 04, 20 |
|----------------|---|--|--|--|------------------------------|------------------------|---|---|---|
| | | | PNO: Fast IFGain:Low | , Trig #Att | : Free Run en: 16 dB | Avg Type: Avg Hold: | RMS 100/100 | TI | RACE 1 2 3 4 5 TYPE A WWWM DET A NNNN |
| dB/div | Ref Offset 2 Ref 11.70 | 7.7 dB dBm | | | | | | Mkr1 ⁻ -49 | 150.0 kH .227 dBr |
| 70 | | | | | Ĭ | | | | |
| | | | | | | | | | |
| SU | | | | | | | | | |
| 3 | | | | | | | | | |
| 3 | | | | | | | | | DI 1 -29.00 |
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| 3 | Alexandrical and the second | WHAT THE REAL PROPERTY AND IN THE REAL PROPERTY AND INTERPORT | | | | | | | |
| 3 | | "International | and the second | maying vision for the second | ens heijädissidistationaksi. | | aliti ya ali | ingen gefeler en skaar en skaa Skaar en skaar en skaa | n an |
| | | | | | | | | | |
| rt 150 s BW | kHz 10 kHz | | | #VBW 30 | kHz* | | #Swe | Stop 2 | 20.000 M |



| | Port 1, Band n14, 758 - 7 | 768 Mhz, 5 Mł | Hz Bandwidth, QP | SK Modulation, M | id Channel, 763 | MHz |
|---|---|---|--|--|---|--|
| | Range | | Freg (MHz) | (dBm) | < (dBm) | Result |
| | 20 MHz - 1.2 GHz | | 737 | -38.427 | -19 | Pass |
| | | | | | | |
| Keysight Spectrur | m Analyzer - Element Materials Technolo | ogy | SENSE:INT | ALIGN AUTO | | 07:48:21 AM Aug 06, 2022 |
| | | PNO: Fast ↔ | Trig: Free Run #Atten: 20 dB | Avg Type Avg Hold | : RMS 100/100 | TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN |
| R 10 dB/div R | ef Offset 41.6 dB ef 43.60 dBm | | | | | Mkr1 737.00 MHz -38.427 dBm |
| Log | | | Ť | | | |
| 33.6 | | | | | | |
| | | | | | | |
| 23.6 | | | | | | |
| 13.6 | | | | | | |
| | | | | | | |
| 3.60 | | | | | | |
| -6.40 | | | | | | |
| | | | | | | |
| -16.4 | | | | | | DL1 -19.00 dBm |
| -26.4 | | | | | | |
| | | | | | | |
| -36.4 | | | | | | |
| -46.4 | | | | | | |
| | | | | | | |
| Start 0.0200 | GHz | 40 (B) | | | | Stop 1.2000 GHz |
| #Res BW 100 | 0 KHZ | #VB | W 300 KHZ* | STATUS | #Sweep | 176.0 ms (30000 pts) |
| MGG | | | | SIXIOS | | |
| | Port 1, Band n14, 758 - 7 | 768 Mhz, 5 Mł | Hz Bandwidth, QP | SK Modulation, M | id Channel, 763 | MHz |
| | | | | | | |
| | Frequency | | Measured Freq (MHz) | Max Value | Limit | Result |
| | Frequency Range 1.2 GHz - 8 GHz | | Measured Freq (MHz) 4013.16 | Max Value (dBm) -36.35 | Limit < (dBm) -19 | Result Pass |
| | Frequency Range 1.2 GHz - 8 GHz | | Measured Freq (MHz) 4013.16 | Max Value (dBm) -36.35 | Limit < (dBm) -19 | Result Pass |
| Keysight Spectrur | Frequency Range 1.2 GHz - 8 GHz mAnalyzer - Element Materials Technolog RF 50 Ω DC CORREC | yev | Measured Freq (MHz) 4013.16 | Max Value (dBm) -36.35 | Limit < (dBm) -19 | Result Pass 07:55:58 MA Aug 06, 2022 |
| Keysight Spectrur | Frequency Range 1.2 GHz - 8 GHz mAnalyzer - Element Materials Technolo RF 50 Ω DC CORREC | ngy S PNO: Fast ↔ | Measured Freq (MHz) 4013.16 | Max Value (dBm) -36.35 ALIGN AUTO Avg Type: Avg Hold: | Limit < (dBm) -19 RMS 100/100 | Result Pass 07:55:58 AM Aug 66, 2022 TTRACE 12.34 5.6 TYPE A WANNER |
| Keysight Spectrur | Frequency Range 1.2 GHz - 8 GHz m Analyzer - Element Materials Technolo RF 50 Ω DC CORREC | PNO: Fast ↔ FGain:Low | Measured Freq (MHz) 4013.16 ENSE:INT Trig: Free Run #Atten: 22 dB | Max Value (dBm) -36.35 ALIGN AUTO Avg Type: Avg Hold: | Limit < (dBm) -19 RMS 100/100 | Result Pass 07:55:58 AM Aug 06, 2022 TRACE 12.345.6 TYPE ANNANN DET ANNANN T1 4.009.5 GHz |
| Keysight Spectrur (20 RL 1 | Frequency Range 1.2 GHz - 8 GHz m Analyzer - Element Materials Technolo RF 50 Ω DC CORREC CORREC I I ef Offset 27.6 dB ef 29.60 dBm | egy PNO: Fast FGain:Low | Measured Freq (MHz) 4013.16 | Max Value (dBm) -36.35 ALIGN AUTO Avg Type: Avg Hold: | Limit < (dBm) -19 RMS 100/100 | Result Pass 07:55:58 AM Aug06, 2022 TRACE 2 3 4 5 6 TYPE ANNINN Kr1 4.009 5 GHz -36.354 dBm |
| Keysight Spectrur M RL 10 dB/cliv R | Frequency Range 1.2 GHz - 8 GHz m Analyzer - Element Materials Technolo RF 50 Ω DC CORREC CORREC International Control Contro | rgy S PNO: Fast →→ FGain:Low | Measured Freq (MHz) 4013.16 ENSE:INT Trig: Free Run #Atten: 22 dB | Max Value (dBm) -36.35 ALIGN AUTO Avg Type: Avg Hold: | Limit < (dBm) -19 RMS 100/100 | Result Pass 07:55:58 MA kag 06, 2022 TRACE 2 3 4 5 6 PYPE A WINNIN kr1 4.009 5 GHz -36.354 dBm |
| 10 dB/div R | Frequency Range 1.2 GHz - 8 GHz m Analyzer - Element Materials Technolo RF 50 Ω DC CORREC I ef Offset 27.6 dB ef 29.60 dBm | rgy PNO: Fast →→ FGain:Low | Measured Freq (MHz) 4013.16 ENSE:INT Trig: Free Run #Atten: 22 dB | Max Value (dBm) -36.35 ALIGN AUTO Avg Type: Avg Hold: | Limit < (dBm) -19 RMS 100/100 | Result Pass 07:55:58 MA Aug 06, 2022 Trace 12 34 5 6 Type A WWWW DET ANNNNN kr1 4.009 5 GHz -36.354 dBm |
| Cog | Frequency Range 1.2 GHz - 8 GHz mAnalyzer - Element Materials Technolo RF 50 Ω DC CORREC ef Offset 27.6 dB ef 29.60 dBm | rgy PNO: Fast →→ FGain:Low | Measured Freq (MHz) 4013.16 | Max Value (dBm) -36.35 ALIGN AUTO Avg Type: Avg Hold: | Limit < (dBm) -19 RMS 100/100 | Result Pass 07:55:58 AM Aug 6, 2022 TRACE 12 3 4 5 6 TYPE A WINNIN DET ANNINN kr1 4.009 5 GHz -36.354 dBm |

| #Res BW 1.0 MHz | #VBW 3.0 MHz* | #Sweep | 175.0 ms (15000 pts) |
|-----------------|---------------|--------|----------------------|
| Start 1.200 GHz | | | Stop 8.000 GHz |
| -bU.4 | | | |
| | | | |
| -50.4 | | | |
| -40.4 | | | |
| -30.4 | | | |
| -20.4 | | | DL1 -19.00 dBm |
| -10.4 | | | |
| -0.40 | | | |
| 9.60 | | | |



| Frequer | су | Measured | Max Value | Limit | Beault |
|--|--|---------------------------------|--------------------------|----------------|--|
| | ;) ku- | | (UDIII) | < (ubiii) | Result |
| 3 KHZ - 130 | | 0.01 | -51.57 | -00 | 1 435 |
| Keysight Spectrum Analyzer - Element Materia | als Technology | CENCEANT | A ALICALOFT | | |
| | PNO: Wide ↔ IFGain:Low | Trig: Free Run #Atten: 12 dB | Avg Type: Avg Hold: 1 | RMS 100/100 | TRACE 1 2 3 4 5 TYPE A WWW DET A N N N N |
| Ref Offset 27.9 dB 10 dB/div Ref 11.90 dBm | | | | | Mkr1 9.000 kH -51.971 dBn |
| 209 | | | | | |
| 1.90 | | | | | |
| -8.10 | | | | | |
| -18.1 | | | | | |
| | | | | | |
| -28.1 | | | | | |
| -38.1 | | | | | DL1 ~39.00 dB |
| -48.1 1 | | | | | |
| -58 1 | | Δ | | | Δ |
| and the second s | mmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm | | | ٨ | |
| -68.1 | | m monthered | mmmmm | 1 mmm | mont have |
| -78.1 | | | | | |
| Start 9.00 kHz #Res BW 1.0 kHz | #VE | 3W 3.0 kHz* | | #Sweep | Stop 150.00 kH 174.4 ms (8001 pts |
| MSG | | | STATUS | | |

| Port 1, Band n14, 758 - 768 Mhz, 5 MH | z Bandwidth, 16C | AM Modulation, I | Mid Channel, 763 | MHz | |
|---------------------------------------|------------------|------------------|------------------|--------|--|
| Frequency | Measured | Max Value | Limit | | |
| Range | Freq (MHz) | (dBm) | < (dBm) | Result | |
| 150 kHz - 20 MHz | 0.15 | -48.3 | -29 | Pass | |

| VI RI | PE 50.0 | COPPEC | | ENCE-INT | | IGN OFF | | 07:56:27 | AM Aug 04, 2025 |
|-----------|--|-----------------------------|-----------------------------------|-----------------------------------|-------------------------------------|----------------------------|-------------------------------------|----------------|-----------------------------|
| | N 50 32 | | PNO: Fast ↔→ IFGain:Low | Trig: Free Ru #Atten: 16 dB | un B | Avg Type: I Avg Hold: 1 | RMS 00/100 | TF | ACE 1 2 3 4 5 DET A NNNN |
| I0 dB/div | Ref Offset 27.7 Ref 11.70 dB | dB m | | | | | | Mkr1 1 -48. | 50.0 kHz 295 dBm |
| 1 70 | | | | | | | | | |
| 8.30 | | | | | | | | | |
| 18.3 | | | | | | | | | |
| 28.3 | | | | | | | | | DI 1 -29.00 dBn |
| 38.3 | | | | | | | | | |
| 48.3 | | | | | | | | | |
| 58.3 | | | | | | | | | |
| 68.3 | and the state of t | New York Contraction of the | en della sinata dalla machada and | internet setting oppid in the set | d of a state of a little state of a | na. spullardu a "den sei | a 18/18, ang an 188, j.). Ki bia | | |
| 78.3 | | | | ng ng pi Minisipi di Tani (ba | n man fin test justimpie and (| | | | |
| Start 150 | kHz | | | | | | | Stop 2 | 20.000 MHz |
| Res BW | 10 kHz | | #VBV | V 30 kHz* | | | #Sweep | 174.4 ms | (8001 pts |



| | Frequency | | Measured | Max Value | Limit | Pocult |
|-------------------|--|--------------------------|---------------------------------|------------------------|-----------------|--|
| | 20 MHz - 1.2 GHz | | 737 | -38.6 | -19 | Pass |
| Keysight Spectrun | n Analyzer - Element Materials Technolo RF 50 Ω DC CORREC | gyS | ENSE:INT | ALIGN AUTO | | 07:51:04 AM Aug 06, 2022 |
| | I | PNO: Fast ↔ FGain:Low | Trig: Free Run #Atten: 20 dB | Avg Type: Avg Hold: | RMS 100/100 | TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A NNNNN |
| 10 dB/div Re | ef Offset 41.6 dB ef 43.60 dBm | | | | | -38.603 dBm |
| 33.6 | | | | | | |
| 23.6 | | | | | | |
| 13.6 | | | | | | |
| 3.60 | | | | | | |
| -6.40 | | | | | | |
| -16.4 | | | | | | DL1 -19.00 dBm |
| -26.4 | | | | | | |
| -36.4 | | | | 1 | | |
| -46.4 | | | | | | |
| Start 0.0200 | CH ₂ | | | | | Stop 1 2000 GHz |
| #Res BW 100 |) kHz | #VBV | V 300 kHz* | STATUS | #Sweep 170 | 5.0 ms (30000 pts) |
| | Port 1 Band n14 758 - | 768 Mhz 5 Mi | Hz Bandwidth 160 | AM Modulation | Mid Channel 763 | MHz |
| | Frequency | | Measured | Max Value | Limit | |
| | Range | | Freg (MHz) | (dBm) | < (dBm) | Result |





| Frequency | | Max Value | Limit | Desult |
|--|--|--------------------------|----------------|--|
| Range 9 kHz - 150 kHz | | -51.61 | -39 | Pass |
| 0 KHZ - 100 KH | 0.01 | -01.01 | -00 | 1 435 |
| Keysight Spectrum Analyzer - Element Materials Te | echnology REC SENSE:INT | ALIGN OFF | | 08:14:54 AM Aug 04, 2022 |
| | PNO: Wide +++ Trig: Free Run IFGain:Low #Atten: 12 dB | Avg Type: Avg Hold: 1 | RMS 100/100 | TRACE 2 3 4 5 TYPE A WWWW DET A NNNN |
| Ref Offset 27.9 dB 10 dB/div Ref 11.90 dBm | | | | Mkr1 9.000 kHz -51.607 dBm |
| | | | | |
| 1.90 | | | | |
| -810 | | | | |
| | | | | |
| -18.1 | | | | |
| -28.1 | | | | |
| | | | | |
| -38.1 | | | | DL1 - 39.00 dBir |
| -48.1 | | | | |
| monor | Λ | | | ٨ |
| and the second s | man | | | |
| -68.1 | and have been were | mommon | Awarman | mont have an |
| -78.1 | | | | |
| | | | | |
| Start 9.00 kHz | #\/P\// 2.0 kH74 | | #Swoon 1 | Stop 150.00 kHz |



| _ | 1114, 100 100 1012, 0 101 | | Aivi iviodulation, i | vild Channel, 763 | MHZ |
|--|--|---------------------------------|---|--|---|
| Freq | uency | Measured | Max Value | Limit | Beault |
| 150 kHz | - 20 MHz | 0 15 | -48 79 | < (uBill) | Pass |
| 150 KHZ | - 20 10112 | 0.15 | -40.79 | -29 | 1 455 |
| 🔤 Keysight Spectrum Analyzer - Element M | aterials Technology | | | | |
| LX RL RF 50Ω DC | CORREC SI | ENSE:INT | ALIGN OFF | RMS | 08:17:55 AM Aug 04, 2022 TRACE 1 2 3 4 5 6 |
| | PNO: Fast ↔→ IFGain:Low | Trig: Free Run #Atten: 16 dB | Avg Hold: | 100/100 | TYPE A WWWWW DET A N N N N N |
| Ref Offset 27.7 dB | | | | N | /kr1 150.0 kHz -48.791 dBm |
| Log | | Ĭ | | | |
| 1 70 | | | | | |
| | | | | | |
| -8.30 | | | | | |
| | | | | | |
| -18.3 | | | | | |
| -28.3 | | | | | DI 1 -29.00 dBm |
| | | | | | |
| -38.3 | | | | | |
| 1 | | | | | |
| -48.3 🗲 | | | | | |
| -58.3 | | | | | |
| -68.3 | | | | | |
| | What a part of the state of the | | nersfeldet big toget frank galanter and | aline to a state of the second se | antaine a the grant plain of a straight for a state |
| -78.3 | | | | | |
| | | | | | |
| Start 150 kHz #Res BW 10 kHz | #VBV | V 30 kHz* | | #Sweep 17 | Stop 20.000 MHz 74.4 ms (8001 pts) |
| MSG | | | STATUS | | |
| | 44 750 700 ML - 514 | | A. A. A. J. J. C. | | N411- |
| Port 1, Band | n14, 758 - 768 Mhz, 5 MF uency | IZ Bandwidth, 64Q | Max Value | Limit | MHZ |
| Ra | nge | Freq (MHz) | (dBm) | < (dBm) | Result |
| 20 MHz | - 1.2 GHz | 737 | -38.64 | -19 | Pass |
| | | | | | |
| 🔤 Keysight Spectrum Analyzer - Element N | laterials Technology | | | | |
| | CORDEC | ENCERTAIT | ALICN AUTO | | 07-50-00 AM Aug 05 200 |

| | | PNO: Fast + IFGain:Low | . Trig: Free #Atten: 20 | Run dB | Avg Avg H | lold: 100/100 | 1 | TYPE A WWWWW DET A NNNNN |
|-----------------------|-------------------------------------|---------------------------|----------------------------|-----------|--------------|---------------|----------------|-----------------------------|
| 10 dB/div | Ref Offset 41.6 dB Ref 43.60 dBm | | | | | | Mkr1 73 -38 | 7.00 MHz .635 dBm |
| | | | | | | | | |
| 33.6 | | | | | | | | |
| 23.6 | | | | | | | | |
| 13.6 | | | | | | | | |
| 3.60 | | | | | | | | |
| -6.40 | | | | | | | | |
| -16.4 | | | | | | | | DL1 -19.00 dBm |
| -26.4 | | | | | | | | |
| -36.4 | | | | (| | | | |
| -46.4 | | | | | | | | |
| | | | | | | | | |
| Start 0.0: #Res BW | 200 GHz / 100 kHz | #VB | W 300 kHz | * | | #Swe | ep 176.0 ms | 1.2000 GHz (30000 pts) |
| MSG | | | | | STAT | s | | |



| | Range | | Freq (MHz) | (dBm) | < (dBm) | Result |
|------------------------------|----------------------------------|---------------------------|---------------------------------|------------------------|-----------------|--|
| | 1.2 GHz - 8 GHz | | 4014.52 | -36.48 | -19 | Pass |
| 1 | | | | | | |
| Keysight Spectrum Analyz | zer - Element Materials Technolo | pav | | | | |
| XIRL RF | 50 Ω DC CORREC | | SENSE:INT | ALIGN AUTO | | 07:58:27 AM Aug 06, 2022 |
| | I | PNO: Fast ↔→ FGain:Low | Trig: Free Run #Atten: 22 dB | Avg Type: Avg Hold: | RMS 100/100 | TRACE 1 2 3 4 5 TYPE A WWWW DET A NNNN |
| Ref Offs 10 dB/div Ref 29 | set 27.6 dB .60 dBm | | | | М | kr1 4.020 4 GH -36.476 dBm |
| | | | Ť | | | |
| 19.6 | | | | | | |
| | | | | | | |
| 9.60 | | | | | | |
| | | | | | | |
| -0.40 | | | | | | |
| | | | | | | |
| -10.4 | | | | | | |
| ~ . | | | | | | DL1 -19.00 dBr |
| -20.4 | | | | | | |
| -30.4 | | | | | | |
| | | | ∳' | | | |
| -40.4 | | | \sim | $\sim\sim\sim$ | | <u> </u> |
| | | | | | | |
| -50.4 | | | | | | |
| | | | | | | |
| -60.4 | | | | | | |
| | | | | | | |
| Start 1.200 GHz | | | | | | Stop 8.000 GHz |
| #Res BW 1.0 MHz | | #VB | W 3.0 MHz* | | #Sweep 1 | 75.0 ms (15000 pts |
| ASG | | | | STATUS | | |
| Por | t 1, Band n14, 758 - 7 | 68 Mhz, 5 MF | Iz Bandwidth, 2560 | AM Modulation. | Mid Channel, 76 | 3 MHz |
| | Frequency | | Measured | Max Value | Limit | |
| | Range | | Freq (MHz) | (dBm) | < (dBm) | Result |
| | 9 kHz - 150 kHz | | 0.01 | -52.39 | -39 | Pass |





| | Port 1, Band | n14 758 - 768 Mhz. | 5 MHz Bandwidth, 2560 | DAM Modulation. | Mid Channel, 763 | 3 MHz |
|-----------|--|--|--|-----------------------------------|--|--|
| | Free | quency | Measured | Max Value | Limit | |
| | R | ange | Freq (MHz) | (dBm) | < (dBm) | Result |
| | 150 kH | z - 20 MHz | 0.15 | -48.61 | -29 | Pass |
| • | | | • | | | • |
| | Spectrum Analyzer - Element | Materials Technology | | | | |
| LXI RL | RF 50 Ω D0 | CORREC | SENSE:INT | ALIGN OFF | | 08:46:53 AM Aug 04, 2022 |
| | | PNO: Fast IFGain:Low | →→ Trig: Free Run #Atten: 16 dB | Avg Type: Avg Hold: | RMS 100/100 | TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A N N N N N |
| 10 dB(div | Ref Offset 27.7 d | 3 | | | Ν | /kr1 155.0 kHz -48.607 dBm |
| Log | | | The second secon | | | |
| | | | | | | |
| 1.70 | | | | | | |
| 0.00 | | | | | | |
| -8.30 | | | | | | |
| .18.3 | | | | | | |
| -10.3 | | | | | | |
| -28.3 | | | | | | DI 1 -29.00 dBm |
| | | | | | | |
| -38.3 | | | | | | |
| 1 | | | | | | |
| -48.3 | | | | | | |
| | | | | | | |
| -58.3 | | | | | | |
| -68.3 | an the state of th | | | | | |
| | | and the second | n gelen de provinsiere de provinsiere de la companyer | electrony for a particulation com | مهنورهم ومطينا فالما المالية المراجع والمحمد و | ۲۰۰۵٬۰۰۹ <mark>و او در او</mark> |
| -78.3 | | | | | | |
| | | | | | | |
| Start 15 | 0 kHz | | | | | Stop 20.000 MHz |
| #Res B | N 10 kHz | | VBW 30 kHz* | | #Sweep 17 | 74.4 ms (8001 pts) |
| MSG | | | | STATUS | - | |
| | | 11 750 700 5 " | | | | |
| | Port 1, Band | n14, 758 - 768 Mhz, | 5 MHz Bandwidth, 2560 | JAM Modulation, | Mid Channel, 763 | 3 MHZ |
| | Free | quency | weasured | | | Pocult |
| | 7 | ange | | (UDIII) | | Result |

| L | RF | 50 Ω D | CORREC | | 9 | SENSE:INT | | ALIGN | AUTO | | 07:53 | 3:18 AM Aug 06. 3 |
|-------|--------------------|----------------------|--------|-------------------------|---|--------------------------|-----------|----------|----------------------|------------------|--------------|--|
| | | | | PNO: Fast IFGain:Low | | Trig: Free #Atten: 20 | Run dB | Á | Avg Type Vg Hold: | : RMS 100/100 | | TRACE 1 2 3 4 TYPE A WWW DET A N N N |
| B/div | Ref Offs Ref 43 | et 41.6 d .60 dBn | B n | | | | | | | | Mkr1 7 -3 | ′37.00 M 8.278 dE |
| | | | | | | | Ĭ | | | | | |
| | | | | | | | | | | | | |
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| | | | | | | | | | | | | |
| | | | | | | | | | | | | DL1 -19.0 |
| | | | | | | | | | | | | |
| | | | | | | | | 1 | | | | |
| | | | | | | | | لأحسبه | | | | |
| | | | | | | | | | | | | |
| 0.020 | 0 GHz | | | | | | | | | | Stop | o 1.2000 (|



| | Frequency | | Measured | Max Value | Limit | Ba | |
|-----------------------------------|---|----------------------------|---------------------------------|--------------------------|----------------|------------------|---|
| | 1 2 GHz - 8 GHz | | 4014 52 | -36.44 | -19 | P | acc |
| | | | | | - | | |
| Keysight Spectrum Anal | lyzer - Element Materials Techn 50 Ω DC CORREC | ology | SENSE:INT | ALIGN AUTO | | 07:59:37 | AM Aug 06, 2022 |
| | | PNO: Fast ↔→ IFGain:Low | Trig: Free Run #Atten: 22 dB | Avg Type: Avg Hold: 1 | RMS 100/100 | TR | ACE 123456 TYPE A WWWWW DET A NNNNN |
| Ref Of 10 dB/div Ref 2 | fset 27.6 dB 9.60 dBm | | | | Μ | lkr1 4.0 -36. | 13 1 GHz 439 dBm |
| | | | Ý | | | | |
| 19.6 | | | | | | | |
| 9.60 | | | | | | | |
| -0.40 | | | | | | | |
| -10.4 | | | | | | | |
| 20.4 | | | | | | | DL1 -19.00 dBm |
| -20.4 | | | | | | | |
| -30.4 | | | ♦ ¹ | | | | |
| -40.4 | | | \sim | $\rightarrow \sim \sim$ | | <u> </u> | ~~~ |
| -50.4 | | | | | | | |
| -60.4 | | | | | | | |
| | | | | | | | |
| Start 1.200 GHz #Res BW 1.0 MH | Iz | #VB | W 3.0 MHz* | | #Sweep 1 | Stop 75.0 ms | 8.000 GHz (15000 pts) |
| MSG | | | | STATUS | | | |

| Frequency | Measured | Max Value | Limit | |
|-----------------|------------|-----------|---------|--------|
| Range | Freq (MHz) | (dBm) | < (dBm) | Result |
| 9 kHz - 150 kHz | 0.01 | -51.9 | -39 | Pass |





| | Port 1, Band n14, 758 - 7 | 768 Mhz, 10 MH | Iz Bandwidth, 256 | QAM Modulation, | Mid Channel, 76 | 3 MHz | |
|---|---|-------------------------------------|--|---|-----------------|--|---------|
| | Frequency | | Measured | Max Value | Limit | Pocult | |
| | 150 kHz - 20 MHz | | 0.15 | -48.72 | -29 | Pass | |
| | 100 Mile 20 Mile | | 0.10 | 10.12 | 20 | 1 400 | |
| | 🛄 Keysight Spectrum Analyzer - Element Materials Techno | blogy | | | | | |
| | CM RL RF 50 Ω DC CORREC | SI | ENSE:INT | ALIGN AUTO | DMS | 10:20:35 AM Aug 04, 202 | 2 |
| | | PNO: Fast ↔→ IFGain:Low | Trig: Free Run #Atten: 16 dB | Avg Hold: 1 | 100/100 | | 6 * |
| | Ref Offset 27.7 dB 10 dB/div Ref 11.70 dBm | | | | N | /lkr1 150.0 kHz -48.724 dBn | z 1 |
| | Log | | | | | | |
| | 1.70 | | | | | | |
| | | | | | | | |
| | -8.30 | | | | | | |
| | | | | | | | |
| | -18.3 | | | | | | |
| | 28.3 | | | | | DL 1 -29 00 dBr | |
| | | | | | | | |
| | -38.3 | | | | | | |
| | 1 | | | | | | |
| | -48.3 🗲 | | | | | | |
| | 58.2 | | | | | | |
| | -30.5 | | | | | | |
| | -68.3 | and a second state of the latter of | | | | | |
| | | and the second second second second | and the state of the second state of the second | and the state of the | | rrest and and many traded straighting as | * |
| | -78.3 | | | | | | |
| | | | | | | | |
| | Start 150 kHz #Res BW 10 kHz | #VBV | V 30 kHz* | | #Sweep 17 | Stop 20.000 MH 4.4 ms (8001 pts | z)) |
| | MSG | | | STATUS | | | |
| | | | | | | | |
| | Port 1, Band n14, 758 - 7 | 768 Mhz, 10 MF | Iz Bandwidth, 256 | QAM Modulation, | Mid Channel, 76 | 3 MHz | |
| | Range | | Freg (MHz) | Max value (dBm) | < (dBm) | Result | |
| 1 | 20 MHz - 1.2 GHz | | 737 | -37.07 | -19 | Pass | |

| keysight Spectrum Analyzer - Element Materials Tec | nnology | | |
|--|--|-------------------|---------------------------------------|
| RL RF 50 Ω DC CORRE | C SENSE:INT | ALIGN AUTO | 08:23:44 AM Aug 06, 20 |
| | PNO: Fast Trig: Free Run IFGain:Low #Atten: 20 dB | Avg Hold: 100/100 | TYPE A WWW DET A N N N |
| Ref Offset 41.6 dB B/div Ref 43.60 dBm | | | Mkr1 737.00 MI -37.072 dB |
| | | | |
| 6 | | | |
| a | | | |
| | | | |
| 6 | | | |
| | | | |
| , | | | |
| | | | |
| 4 | | | DL1 -19.00 |
| 4 | | | |
| 4 | | | |
| n Territoria a seconda propiata en la propiata de seconda de seconda des del litera de seconda de seconda de second | | | |
| | | | |
| | | | 0 4 4 0000 0 |
| es BW 100 kHz | #VBW 300 kHz* | #Swee | Stop 1.2000 G ep 176.0 ms (30000 r |



| Freque | ncy | Measured | Max Value | Limit | | |
|---|-----------------|-----------------------------------|--------------------------|----------------|---------------------------|---------------------------|
| Rang | le | Freq (MHz) | (dBm) | < (dBm) | Result | 1 |
| 1.2 GHz - | 8 GHz | 4026.76 | -36.38 | -19 | Pass | |
| | | | | | | |
| 🤷 Keysight Spectrum Analyzer - Element Materi | ials Technology | | | | | × |
| XI RL RF 50 Ω DC | CORREC | SENSE:INT | ALIGN AUTO | - | 08:26:19 AM Aug 06, 2 | 2022 |
| | PNO: Fast | . Trig: Free Run #Atten: 22 dB | Avg Type: Avg Hold: 1 | RMS 100/100 | TYPE A WWW DET A N N I | 15 6 ₩₩₩ NNN |
| | II Gam.Low | | | Mk | 1 4 020 8 C | U-7 |
| Ref Offset 27.6 dB | | | | WIN | -36 381 dF | Rm |
| | | | | | | |
| | | | | | | |
| 19.6 | | | | | | |
| | | | | | | |
| 9.60 | | | | | | |
| | | | | | | |
| -0.40 | | | | | | |
| | | | | | | |
| -10.4 | | | | | | |
| | | | | | DI4 40.00 | L I Dan |
| -20.4 | | | | | DET -19.00 | |
| | | | | | | |
| -30.4 | | 1 | | | | |
| | | | | | | |
| -40.4 | | | | | | \leq |
| | | | | | | |
| -50.4 | | | | | | |
| | | | | | | |
| -60.4 | | | | | | |
| | | | | | | |
| Start 1.200 GHz | | A | | | Stop 8.000 G | Hz |
| | #\/P | MI 3 0 MHz* | | #Sween 174 | 5.0 ms (15000 r | te) |



| Frequen | су | Measured Freq (MHz) | Max Value | Limit | Result |
|---|---------------------------|--|------------------------|----------------|---|
| 9 kHz - 150 | kH7 | 0.01 | -51 54 | -39 | Pass |
| | | | 1 | | 1 |
| Keysight Spectrum Analyzer - Element Material RL RF 50 Ω DC C | s Technology ORREC | SENSE:INT | ALIGN OFF | | 09:02:15 AM Aug 04, 2022 |
| | PNO: Wide ↔ IFGain:Low | Trig: Free Run #Atten: 12 dB | Avg Type: Avg Hold: | RMS 100/100 | TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A NNNN |
| Ref Offset 27.9 dB 10 dB/div Ref 11.90 dBm | | | | | Mkr1 9.388 kHz -51.541 dBm |
| | | Ť | | | |
| 1.90 | | | | | |
| -8.10 | | | | | |
| | | | | | |
| -18.1 | | | | | |
| -28.1 | | | | | |
| 38.1 | | | | | DI 1 - 39.00 dBm |
| | | | | | |
| -48.1 | | | | | |
| -58.1 | | | | | Λ |
| -68.1 | mana | no hanna | 0.0 | Δ | |
| | | | and the way | "have more | man pure |
| -78.1 | | | | | |
| Start 0.00 kHz | | | | | Stop 150 00 kHz |
| #Res BW 1.0 kHz | #VI | BW 3.0 kHz* | | #Sweep 1 | 74.4 ms (8001 pts) |
| MSG | | | STATUS | | |

| Port 2, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, QPSK Modulation, Mid Channel, 763 MHz | | | | | | | | | | |
|---|------------|-----------|---------|--------|--|--|--|--|--|--|
| Frequency | Measured | Max Value | Limit | | | | | | | |
| Range | Freq (MHz) | (dBm) | < (dBm) | Result | | | | | | |
| 150 kHz - 20 MHz | 0.15 | -48.71 | -29 | Pass | | | | | | |

| RL | RE | IN O DC | CORREC | | SENSEIINT | | I IGN OFF | | 09:04:46 | 5 AM Aug 04 202 |
|-------------------|-------------------------------|------------------|--------|-------------------------------------|----------------------------|-------------------------|---|---------------------------|---|---|
| | | | | PNO: Fast ++ | . Trig: Free #Atten: 16 | Run dB | Avg Type: Avg Hold: 1 | RMS 00/100 | TF | ACE 1 2 3 4 5 TYPE A WWW DET A NNNN |
|) dB/div | Ref Offset Ref 11.7 | 27.7 dB 0 dBm | | | | | | | Mkr1 1 -48. | 55.0 kH 705 dBn |
| 70 | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| 3.3 | | | | | | | | | | |
| 3.3 | | | | | | | | | | DI 1 -29.00.d |
| 3.3 | | | | | | | | | | |
| 3.3 | | | | | | | | | | |
| 3.3 | | | | | | | | | | |
| 3.3 | and a strength for the states | | | teles, have a shifted on the states | Anna takata wata manata | والمستحد ومحادث والأروا | an an de Ballet an San San Anna, a' ai dh' an an Anna | unimultin such abituition | v. el des es dedicións | ha la falmendan sa |
| 3.3 | | | | | | | | | an ann | |
| 450 | | | | | | | | | 0 | 0.000 84 |
| art 150 Res BW | KHZ 10 kHz | | | #VE | W 30 kHz* | | | #Sweer | Stop 2 0 174.4 ms | 20.000 MF \$ (8001 pt |



| | Frequency Range | | Measured Freg (MHz) | Max Value (dBm) | Limit < (dBm) | Result |
|-----------------------------|---|---------------------------|---------------------------------|--------------------|------------------|---|
| | 20 MHz - 1.2 GHz | | 737 | -39.6 | -19 | Pass |
| · · · | | | | | | · |
| Keysight Spectr | rum Analyzer - Element Materials Technolo | gy | | | | |
| LXI RL | RF 50 Ω DC CORREC | S | ENSE:INT | | RMS | 08:04:25 AM Aug 06, 2022 TRACE 1 2 3 4 5 6 |
| | F | PNO: Fast ↔→ FGain:Low | Trig: Free Run #Atten: 20 dB | Avg Hold: | 100/100 | TYPE A WWWWW DET A N N N N N |
| | Ref Offset 41.6 dB | | | | M | kr1 737.00 MHz |
| 10 dB/div | Ref 43.60 dBm | | | | | -39.594 dBm |
| | | | | | | |
| 33.6 | <u>م المال</u> | | | All the second | | |
| | | | | | | |
| 23.6 | | | | | | |
| | | | | | | |
| 13.6 | | | | | | |
| 2.60 | | | | | | |
| 3.80 | | | | | | |
| -6.40 | <u>سم مما ک</u> | | | | | |
| | | | | | | |
| -16.4 | | | | | | DL1 -19.00 dBm |
| | | | | | | |
| -26.4 | | | | | | |
| | | | | | | |
| -36.4 | | | | | | |
| 46.4 | | | | | | |
| -40.4 | | | | | | |
| | | | | | | |
| Start 0.0200 #Res BM/ 11 | 0 GHz | #VB | A/ 300 kHz* | | #Sween 17 | Stop 1.2000 GHz |
| | 20 KH2 | | 4 300 KH2 | STATUS | #Gweep II | oro una (accore pres) |
| | | | | | | |
| | Port 2, Band n14, 758 - 7 | 768 Mhz, 5 M | Hz Bandwidth, QP | SK Modulation, N | Mid Channel, 763 | MHz |
| | Frequency | | Measured | Max Value | Limit | B H |
| | Kange | | Freq (IVIHZ) | (asm) | < (asm) | Result |





| Frequency | Measured | Max Value | Limit | |
|--|--|------------------------|----------------|--|
| Range | Freq (MHz) | (dBm) | < (dBm) | Result |
| 9 kHz - 150 k | Hz 0.01 | -51.86 | -39 | Pass |
| Keysight Spectrum Analyzer - Element Materials T | echnology | | | - 6 × |
| LXI RL RF 50Ω DC COF | REC SENSE:INT | ALIGN OFF | | 09:19:39 AM Aug 04, 2022 |
| | PNO: Wide +++ Trig: Free Run IFGain:Low #Atten: 12 dB | Avg Type: Avg Hold: | RMS 100/100 | TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A N N N N N |
| Ref Offset 27.9 dB 10 dB/div Ref 11.90 dBm | | | | Mkr1 9.141 kHz -51.858 dBm |
| Log | | | | |
| 1.90 | | | | |
| | | | | |
| -8.10 | | | | |
| -18.1 | | | | |
| | | | | |
| -28.1 | | | | |
| -38.1 | | | | DL1 -39.00 dBm |
| | | | | |
| -40.1 | | | | |
| -58.1 | | | | A |
| | mmmmm has seen as | | ۸ | |
| -80.1 | | www. | a month | month from |
| -78.1 | | | | |
| | | | | |
| Start 9.00 kHz #Res BW 1.0 kHz | #\/B\\/ 3.0 kHz* | | #Sween | Stop 150.00 kHz |
| MSG | #VEVV J.0 KHZ | STATUS | #oweep | 17444 IIIS (8001 pts) |

| Port 2, Band n14, 758 - 768 Mhz, 5 MH | z Bandwidth, 16C | AM Modulation, I | Mid Channel, 763 | 3 MHz |
|---------------------------------------|------------------|------------------|------------------|--------|
| Frequency | Measured | Max Value | Limit | |
| Range | Freq (MHz) | (dBm) | < (dBm) | Result |
| 150 kHz - 20 MHz | 0.15 | -49.19 | -29 | Pass |

| I PE 50.0 DC | COPPEC | | ENCE-INT | ALIGN OFF | | 00-21-20 AM Aug 04 -20 |
|---|--|-----------------------------------|---|--|--|---|
| | CONCEC | PNO: Fast +++ FGain:Low | Trig: Free Run #Atten: 16 dB | Avg Type: R Avg Hold: 10 | RM S 00/100 | TRACE 2 3 4 TYPE A WWW DET A N N N |
| Ref Offset 27.7 dB B/div Ref 11.70 dBm | | | | | | Mkr1 150.0 kł -49.189 dB |
| | | | Ĭ | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | DI 1-29.00 |
| | | | | | | |
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| with the stand of | | | | | | |
| | and the state of t | langetyk som interaptionale state | <mark>stylege</mark> likke my'nykske person stylest fyn | terrippiscology distributions projects ligning a | an de la companya de | ielijfe eizengeneele sterekense tierekerste |
| | | | | | | |
| t 150 kHz | | | | | | Stop 20.000 M |

element

| F | Frequency | Measured | Max Value | Limit | |
|---|---------------------------|---------------------------------|--------------------------------------|----------------|--|
| | Range | Freq (MHz) | (dBm) | < (dBm) | Result |
| 20 M | MHz - 1.2 GHz | 737 | -39.06 | -19 | Pass |
| Keysight Spectrum Analyzer - Elen | nent Materials Technology | | ALTCH AUTO | | |
| KE KE DU V | PNO: Fast H IFGain:Low | Trig: Free Run #Atten: 20 dB | ALIGN AUTO Avg Type: Avg Hold: | RMS 100/100 | TRACE 1 2 3 4 TYPE A WWW DET A N N N |
| Ref Offset 41. 10 dB/div Ref 43.60 d | 6 dB Bm | | | M | kr1 737.00 MH -39.061 dB |
| | | ľ | | | |
| 33.0 | | | | | |
| 23.6 | | | | | |
| 13.6 | | | | | |
| 3.60 | | | | | |
| -6.40 | | | | | |
| -16.4 | | | | | DL1 -19.00 d |
| -26.4 | | | | | |
| | | | 1 | | |
| -36.4 | | | | | |
| -46.4 | | | | | |
| Start 0.0200 GHz | | | | | Stop 1.2000 GH |
| Res BW 100 kHz | #V | BW 300 kHz* | | #Sweep 17 | 76.0 ms (30000 pt |

| | Port 2, Band n14, 758 - 768 Mhz, 5 M | Hz Bandwidth, 160 | AM Modulation, I | Mid Channel, 763 | MHz | |
|---|--------------------------------------|-------------------|------------------|------------------|--------|--|
| | Frequency | Measured | Max Value | Limit | | |
| | Range | Freq (MHz) | (dBm) | < (dBm) | Result | |
| ĺ | 1.2 GHz - 8 GHz | 4037.64 | -36.47 | -19 | Pass | |

| RL RF 50 Ω DC CO | RREC | SENSE:INT | ALIGN AUTO | | 08:13:28 | AM Aug 06, 2022 |
|--|---------------------------|-----------------------------------|-----------------------|----------------|------------------|--|
| | PNO: Fast ↔ IFGain:Low | . Trig: Free Run #Atten: 22 dB | Avg Type Avg Hold: | RMS 100/100 | TF | ACE 1 2 3 4 5 TYPE A WWWW DET A NNNN |
| Ref Offset 27.6 dB dB/div Ref 29.60 dBm | | | | | Mkr1 4.0 -36. | 19 0 GHz 465 dBm |
| 3 | | Ĭ | | | | |
| .6 | | | | | | |
| 60 | | | | | | |
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| 4 | | | | | | DI 4 40 00 VD |
| 4 | | | | | | DCT -19.00 0BN |
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| 4 | | <u> </u> | \rightarrow | | | |
| | | | | | | |
| 4 | | | | | | |
| 4 | | | | | | |
| art 1.200 GHz es BW 1.0 MHz | #VB | W 3.0 MHz* | | #Sweep | Stop 175.0 ms | 8.000 GHz (15000 pts |
| | | | STATUS | | | |



| Freq | uency | Measured Freg (MHz) | Max Value (dBm) | Limit < (dBm) | Result | |
|---|-------------------------|--|--|------------------|---|----------------|
| 9 kHz - | 150 kHz | 0.01 | -51.83 | -39 | Pass | |
| Keysight Spectrum Analyzer - Element M | aterials Technology | | | | | x |
| XX RL RF 50Ω DC | CORREC | SENSE:INT | ALIGN AUTO | | 09:35:20 AM Aug 04, 20 |)22 |
| | PNO: Wide IFGain:Low | Trig: Free Run #Atten: 12 dB | Avg Type: I Avg Hold: 1 | RMS 00/100 | TRACE 1 2 3 4 TYPE A WWW DET A N N N | 56 ₩₩ NN |
| Ref Offset 27.9 dB 10 dB/div Ref 11.90 dBm | | | | | Mkr1 9.000 kH -51.831 dB | lz m |
| Log | | | | | | |
| 1 90 | | | | | | |
| 1.00 | | | | | | |
| -8 10 | | | | | | |
| | | | | | | |
| -18.1 | | | | | | |
| | | | | | | |
| -28.1 | | | | | | |
| | | | | | | |
| -38.1 | | | | | DL1 -39.00 d | Bm |
| | | | | | | |
| -48.1 | | | | | | |
| manna a | | ٨ | | | | |
| -58.1 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | | | | | |
| | mm | | | ۸ | | |
| -68.1 | | and the second s | men manual and a second and a second and a second a secon | Vham | www home | |
| 70.4 | | | | | | |
| -70.1 | | | | | | |
| Start 9.00 kHz #Res BW 1.0 kHz | # | VBW 3.0 kHz* | | #Sweep | Stop 150.00 kH 174.4 ms (80 <u>01 pt</u> | iz ts) |
| MSG | | | STATUS | | | |

| Port 2, Band n14, 758 - 768 Mhz, 5 MH | z Bandwidth, 64C | AM Modulation, I | Mid Channel, 763 | MHz | |
|---------------------------------------|------------------|------------------|------------------|--------|--|
| Frequency | Measured | Max Value | Limit | | |
| Range | Freq (MHz) | (dBm) | < (dBm) | Result | |
| 150 kHz - 20 MHz | 0.15 | -48.68 | -29 | Pass | |

| Key | sight Spe | ctrum Ar | nalyzer - Element | Materials Technol | ogy | annuan suml | | | | | |
|----------------|-----------|---------------------|--|------------------------|--------------------------------------|-------------------------|---------------------------|---|--------|--------------------|---------------------|
| XI KL | - | ĸ⊦ | 50 Ω D | C CORREC | | SENSE:INI | Pure P | Avg Type: | RMS | 09:38:31 TR | AM Aug 04, 2022 |
| | | | | | PNO: Fast ++ IFGain:Low | #Atten: 16 | dB | Avginoia: 1 | 00/100 | | DETANNNN |
| 10 dE | 3/div | Ref (Ref | 0ffset 27.7 d 11.70 dBr | B n | | | | | | Mkr1 1 -48. | 50.0 kHz 684 dBm |
| ^{_og} | | | | | | | Ĭ | | | | |
| 1.70 | | | | | | | | | | | |
| | | | | | | | | | | | |
| -8.30 | | | | | | | | | | | |
| -18.3 | | | | | | | | | | | |
| -28.3 | | | | | | | | | | | DI 1 -29.00 dBm |
| 20.0 | | | | | | | | | | | |
| -38.3 | | | | | | | | | | | |
| -48.3 | 1 | | | | | | | | | | |
| | l | | | | | | | | | | |
| -58.3 | - | | and a state of the | | | | | | | | |
| -68.3 | | | A DESCRIPTION OF THE OWNER OF THE | Law Martin Contraction | til ette settle tegleit fördenar for | waranter and the second | urte inti cer inci incina | en andere faller ander der ster der der der der der der der der der d | | ellêr werene teken | |
| -78.3 | | | | | | | | | | | |
| | | | | | | | | | | | |
| Star | 150 | kHz | | | | | | | | Stop 2 | 0.000 MHz |
| #Res | SBW | 10 KH | Z | | #VE | SW 30 kHz* | | | #Swee | 5 174.4 ms | (8001 pts) |



| Range Freq (MHz) (dBm) < (dBm) | | Freque | ency | Measured | Max Value | Limit | |
|--|-----------------------|-------------------------------------|---------------------------|-----------------------------------|--------------------------|----------------|--|
| 20 MHz - 1.2 GHz 737 -40.45 -19 Pass | | Rang | ge | Freq (MHz) | (dBm) | < (dBm) | Result |
| Keydight Spectrum Analyzer - Element Materials Technology CORREC SENSE:INT ALIGN AUTO 08:07:21 AM AUG06, 22 R.L< | | 20 MHz - 1 | 1.2 GHz | 737 | -40.45 | -19 | Pass |
| Propuls operating by the limit matrix is the limit of the limit | M Keysight Spa | strum Analyzer Element Mater | rials Tochaology | | | | |
| PNO: Fast IFGain:Low Trig: Free Run #Atten: 20 dB Avg Type: RMS AvgIHold: 100/100 Trace 0.34 Type: RMS AvgIHold: 100/100 Ref Offset 41.6 dB Mkr1 737.00 MH -40.446 dB 33.6 Mkr1 737.00 MI -40.446 dB 33.6 Image: Start Start Start Start Stop 1.2000 CHz #Res BW 100 kHz | LXI RL | RF 50 Ω DC | CORREC | SENSE:INT | ALIGN AUTO | | 08:07:21 AM Aug 06, 2022 |
| Ref Offset 41.6 dB Mkr1 737.00 Mi 336 -40.446 dB 34 -40.446 dB 350 -40.446 dB 361 -40.446 dB 362 -40.446 dB 363 -40.446 dB 364 -40.446 dB 365 -40.446 dB 366 -40.446 dB </td <td></td> <td></td> <td>PNO: Fast ↔ IFGain:Low</td> <td>, Trig: Free Run #Atten: 20 dB</td> <td>Avg Type: Avg Hold: 1</td> <td>RMS 100/100</td> <td>TRACE 1 2 3 4 5 TYPE A WWWW DET A NNNN</td> | | | PNO: Fast ↔ IFGain:Low | , Trig: Free Run #Atten: 20 dB | Avg Type: Avg Hold: 1 | RMS 100/100 | TRACE 1 2 3 4 5 TYPE A WWWW DET A NNNN |
| 33.6 33.6 33.6 36 33.6 36 36.4 36.4 -15.4 011-15000 -15.4 011-15000 Start 0.0200 CHz \$top 1.2000 CHz #Res BW 100 kHz #VBW 300 kHz* \$tot 0.200 CHz \$top 1.2000 CHz #Res BW 100 kHz \$top 1.2000 CHz | 10 dB/div | Ref Offset 41.6 dB Ref 43.60 dBm | | | | Ν | /kr1 737.00 MHz -40.446 dBm |
| 33.6 | | | | 1 Y | | | |
| 33.6 36.0 | | | | | | | |
| 23.6 13.6 3.60 | 33.6 | | | | | | |
| 13 6 13 6 14 6 | 23.6 | | | | | | |
| 136 | 20.0 | | | | | | |
| 3 60 -6 40 -16.4 -26.4 -36.4 -36.4 -46.4 Start 0.0200 GHz #Res BW 100 kHz #VBW 300 kHz* #Start 0.0200 GHz #Start 0.0 | 13.6 | | | | | | |
| 3 60 | | | | | | | |
| 6.40 -16.4 -26.4 -36.4 -46.4 -36.4 -46.4 -36.4 -46.4 -36.4 -46.4 -36.4 -46 | 3.60 | | | | | | |
| -6.40 -16.4 -27.5 -2 | | | | | | | |
| 16.4 00.1 13000 26.4 00.1 3000 36.4 00.1 3000 45.4 00.1 3000 Start 0.0200 GHz #VBW 300 kHz* #Res BW 100 kHz #VBW 300 kHz* | -6.40 | | | | | | |
| -16.4 00.1.1.30000 -26.4 -26.4 -37.4 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | | |
| -26.4 -26.4 -26.4 -36.4 -36.4 -46.4 -26.4 -46.4 -26.4 Start 0.0200 GHz Stop 1.2000 GHz #Res BW 100 kHz #VBW 300 kHz* #Sweep 176.0 ms (30000 pt MSG Startus | -16.4 | | | | | | DL1 -19.00 dBn |
| 26 4 | | | | | | | |
| -36.4 -46.4 -46.4 -46.4 Start 0.0200 GHz #VBW 300 kHz* #Res BW 100 kHz #VBW 300 kHz* #So Startus | -26.4 | | | | | | |
| -45.4 -45.4 -45.4 -45.4 Start 0.0200 GHz #VBW 300 kHz* Stop 1.2000 GHz #Res BW 100 kHz #VBW 300 kHz* #Sweep 176.0 ms (30000 pr Msg Startus | | | | | | | |
| -46.4 -46.4 | -36.4 | | i - best and | | | | |
| Start 0.0200 GHz Stop 1.2000 GHz #Res BW 100 kHz #VBW 300 kHz* #Sweep 176.0 ms (30000 pr Msg starus | -46.4 | | | | | | |
| Start 0.0200 GHz Stop 1.2000 GH #Res BW 100 kHz #VBW 300 kHz* #Sweep 176.0 ms (30000 pr Msg status status Status Status | | | | | | | |
| Start 0.0200 GHz Stop 1.2000 GHz #Res BW 100 kHz #VBW 300 kHz* #Sweep 176.0 ms (30000 pt MSG status status | | | | | | | |
| MSG | Start 0.02 #Res BW | 00 GHz 100 kHz | #VI | BW 300 kHz* | | #Sweep 1 | Stop 1.2000 GHz 76.0 ms (30000 pts |
| | MSG | | | | STATUS | | |
| | | | | | | | |
| Port 2, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 64QAM Modulation, Mid Channel, 763 MHz | | Port 2, Band n1 | 4, 758 - 768 Mhz, 5 | MHz Bandwidth, 640 | AM Modulation, | Mid Channel, 7 | 63 MHz |

| | Port 2, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 64QAM Modulation, Mid Channel, 763 MHz | | | | | | | |
|---|--|------------|-----------|---------|--------|--|--|--|
| | Frequency | Measured | Max Value | Limit | | | | |
| | Range | Freq (MHz) | (dBm) | < (dBm) | Result | | | |
| Г | 1.2 GHz - 8 GHz | 4019.96 | -36.46 | -19 | Pass | | | |





| Fre | quency | Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | |
|--|---------------------------|---------------------------------|--|------------------|--|-------------|
| 9 kHz | - 150 kHz | 0.01 | -52 12 | -39 | Pass | |
| - | | | | | | |
| Keysight Spectrum Analyzer - Element | Materials Technology | SENSE:INT | ALIGN AUTO | | 09:59:57 AM Aug 04, 202 | 2 |
| | PNO: Wide ↔ IFGain:Low | Trig: Free Run #Atten: 12 dB | Avg Type: Avg Hold: | RMS 100/100 | TRACE 1 2 3 4 5 TYPE A WWW DET A N N N N | 6 ₩ N |
| Ref Offset 27.9 d 10 dB/div Ref 11.90 dBn | 3 | | | | Mkr1 9.000 kH -52.122 dBn | z n |
| Log | | Ĭ | | | | |
| 1.90 | | | | | | |
| | | | | | | |
| -8.10 | | | | | | |
| | | | | | | |
| -18.1 | | | | | | |
| -28.1 | | | | | | |
| | | | | | | |
| -38.1 | | | | | DL1 -39.00 dB | m |
| 1 | | | | | | |
| -48.1 | | | | | | |
| -58.1 -58.1 | | Λ | | | A | |
| - www. | mymmmm | | | | | |
| -68.1 | | my working where | ······································ | American | my Imm. | |
| -78.1 | | | | | | |
| | | | | | | |
| Start 0.00 kHz | | k | | | Stop 150 00 kH | |
| #Res BW 1.0 kHz | #V | BW 3.0 kHz* | | #Sweep | 174.4 ms (800 <u>1 pts</u> |) |
| MSG | | | STATUS | | | |

| | Frequency | Measured | Max Value | Limit | 0 11112 |
|---|------------------|------------|-----------|---------|---------|
| | Range | Freq (MHz) | (dBm) | < (dBm) | Result |
| 1 | 150 kHz - 20 MHz | 0.15 | -48.69 | -29 | Pass |

| RL | RF 5 | 0Ω DC | CORREC | | 100 | SENSE:INT | | ALIGN AUTO | and the state | 10:02:08 | 3 AM Aug 04, 20 |
|-----------|----------------------------|---|--------------|---|--------|--------------------------|-----------|------------------------|----------------------------|----------------|--|
| | | | | PNO: Fast IFGain:Low | ••• | Trig: Free #Atten: 16 | Run dB | Avg Type: Avg Hold: | RMS 100/100 | TF | ACE 1 2 3 4 TYPE A WWW DET A NNN |
| lB/div | Ref Offset Ref 11.7 | 27.7 dB 0 dBm | | | | | | | | Mkr1 1 -48, | 50.0 kl 693 dB |
| | | | | | | | | | | | |
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| 3 | | | | | | | | | | | |
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| rt 150 | kHz | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | | Stop 2 | 0.000 N |

element

| | Dener | | Measure | ed Ma: | x Value | Limit | Desult |
|---|---|--|--|---|--|---|---|
| | 20 MHz - 1.2 G | Ηz | 737 | 1Z) ((| <u>авт)</u> 40.02 | < (dBm) -19 | Pass |
| | | | | <u>.</u> | | | · · · · · |
| Keysight Spectru | m Analyzer - Element Materials Teo | hnology | SENSE:INT | ALI | GN AUTO | | 08:09:28 AM Aug 06, 20 |
| | | PNO: Fast | Trig: Free Ru | un | Avg Type Avg Hold: | : RMS 100/100 | TRACE 1 2 3 4 |
| | | IFGain:Low | #Atten: 20 dl | В | | | DETANNN |
| R 10 dRidiu | tef Offset 41.6 dB | | | | | | Mkr1 737.00 MF -40.016 dB |
| | (el 45.00 ubili | | T T | | | | |
| 33.6 | | | | | | | |
| 33.0 | | | | | | | |
| 23.6 | | | | | | | |
| 10.0 | | | | | | | |
| 13.6 | | | | | | | |
| 3.60 | | | | | | | |
| | | | | | | | |
| -6.40 | | | | | | | |
| -16.4 | | | | | | | DL1 -19.00 d |
| | | | | | | | |
| -26.4 | | | | | | | |
| -36.4 | | | | | | | |
| | | | | | - | | |
| -46.4 | | | | | | | |
| | | | | | | | |
| #Res BW 10 | GHZ 10 kHz | #\ | /BW 300 kHz* | | | #Sweep | Stop 1.2000 GH 176.0 ms (30000 pt |
| | Port 2, Band n14, 758 Frequency | 3 - 768 Mhz, 5 | MHz Bandwidth, Measure | 256QAM M ed Ma | lodulation, x Value | Mid Channel Limit | , 763 MHz |
| | Port 2, Band n14, 758 Frequency Range 1.2 GHz - 8 GH | 3 - 768 Mhz, 5 Iz | MHz Bandwidth, Measure Freq (MH 4021.32 | 256QAM M ed Ma: 1z) (1 2 - | lodulation, x Value dBm) 36.37 | Mid Channel, Limit < (dBm) -19 | 763 MHz Result Pass |
| Kaurinht Snartru | Port 2, Band n14, 758 Frequency Range 1.2 GHz - 8 GH | 3 - 768 Mhz, 5 Iz | MHz Bandwidth, Measure Freq (MH 4021.32 | 256QAM M ed Ma: iz) ((2 - | lodulation, x Value dBm) 36.37 | Mid Channel, Limit < (dBm) -19 | 763 MHz Result Pass |
| Keysight Spectru | Port 2, Band n14, 758 Frequency Range 1.2 GHz - 8 GH um Analyzer - Element Materials Tet RF 50 Ω DC CORRI | 3 - 768 Mhz, 5 Iz :hnology :c | MHz Bandwidth, Measure Freq (MH 4021.32 | 256QAM M ed Ma: 1z) ((2 - | Iodulation, x Value dBm) 36.37 | Mid Channel, Limit < (dBm) -19 | 763 MHz Result Pass 08:16:25 AM Aug 06, 202 Texture for the former of th |
| Keysight Spectru | Port 2, Band n14, 758 Frequency Range 1.2 GHz - 8 GH International Statement Materials Tec RF 50 Ω DC CORR | 3 - 768 Mhz, 5 | MHz Bandwidth, Measure Freq (MH 4021.32 | 256QAM M ed Ma: 1z) (1 2 -: ALIC | Iodulation, x Value dBm) 36.37 GN AUTO Avg Type: Avg Hold: | Mid Channel, Limit < (dBm) -19 | 763 MHz Result Pass 08:16:25 AM Aug 06, 23 4 TYPE AUg 06, 23 4 TYPE AUG 07, 23 4 TYPE AUG 07, 23 4 TYPE AUG 07, 23 4 TYPE AUG 07, 24 4 TY |
| Keysight Spectru | Port 2, Band n14, 758 Frequency Range 1.2 GHz - 8 GH um Analyzer - Element Materials Tec RF 50 Ω DC CORRI | 3 - 768 Mhz, 5 Iz thnology C IFGain:Low | MHz Bandwidth, Measure Freq (MH 4021.32 SENSE:INT Trig: Free Ru #Atten: 22 dE | 256QAM Ma dd Ma: dz) (r 2 -: ALIC | Iodulation, x Value dBm) 36.37 GN AUTO Avg Type: Avg Hold: | Mid Channel, Limit < (dBm) -19 RMS 100/100 | 763 MHz Result Pass 08:16:25 AM Aug 06, 202 TRACE 23 4 5 TYPE ANNNN Mkr1 4,017 7 GH |
| Keysight Spectru M RL 10 dB/div R | Port 2, Band n14, 758 Frequency Range 1.2 GHz - 8 GH um Analyzer - Element Materials Tec RF 50 Ω DC CORR RF 950 Ω DC CORR Ref 0ffset 27.6 dB Ref 29.60 dBm | 3 - 768 Mhz, 5 Iz hnology CC PNO: Fast IFGain:Low | MHz Bandwidth, Measure Freq (MH 4021.32 SENSE:INT SENSE:INT Trig: Free Ru #Atten: 22 dE | 256QAM M ed Ma: 1z) ((2 -: ALIC | Iodulation, x Value dBm) 36.37 GN AUTO Avg Type: Avg Hold: | Mid Channel, Limit < (dBm) -19 RMS 100/100 | 763 MHz Result Pass 08:16:25 AM Aug 06, 202 TRACE 12.3 4 A DET ANNINY Mkr1 4.017 7 GH -36.367 dBr |
| Keysight Spectru RL 10 dB/div R Log | Port 2, Band n14, 758 Frequency Range 1.2 GHz - 8 GH am Analyzer - Element Materials Tex RF 50 Ω DC CORR RF 0ffset 27.6 dB Ref 29.60 dBm | 3 - 768 Mhz, 5 Iz hnology CC IFGain:Low | MHz Bandwidth, Measure Freq (MH 4021.32 SENSE:INT → Trig: Free Ru #Atten: 22 dE | 256QAM M ed Ma: 2: . ALIC | Iodulation, x Value dBm) 36.37 GN AUTO Avg Type: Avg Hold: | Mid Channel, Limit < (dBm) -19 RMS 100/100 | 763 MHz Result Pass 08:16:25 AM Aug 06, 202 TRACE 23 A4 S TRACE 33 A4 S TRACE 34 S TRACE 34 A5 S TRACE 34 S TRACE 34 A5 S TRACE 34 |
| Keysight Spectro R L 10 dB/div R Log | Port 2, Band n14, 758 Frequency Range 1.2 GHz - 8 GH am Analyzer - Element Materials Tee RF 50 Ω DC CORR Ref 29,60 dBm | 3 - 768 Mhz, 5 iz hnology cc PN0: Fast IFGain:Low | MHz Bandwidth, Measure Freq (MH 4021.32 SENSE:INT → Trig: Free Ru #Atten: 22 dE | 256QAM M ed Ma: 1z) ((2 -: 2 -: 3 | lodulation, x Value dBm) 36.37 | Mid Channel Limit < (dBm) -19 RMS 100/100 | 763 MHz Result Pass 08:16:25 AM Aug 06, 202 TRACE 02 3 4 5 TAPE AVAINANN Mkr1 4.017 7 GH: -36.367 dBr |
| 10 dB/div | Port 2, Band n14, 758 Frequency Range 1.2 GHz - 8 GH am Analyzer - Element Materials Tec RF 50 Ω DC CORR Ref Offiset 27.6 dB Ref 29.60 dBm | 3 - 768 Mhz, 5 iz hnology CC PNO: Fast IFGain:Low | MHz Bandwidth, Measure Freq (MH 4021.32 SENSE:INT → Trig: Free Ru #Atten: 22 dE | 256QAM M ed Ma: 1z) ((2 -: ALIC | Iodulation, x Value dBm) 36.37 SN AUTO Avg Type: Avg[Hold: | Mid Channel, Limit < (dBm) -19 RMS 100/100 | 763 MHz Result Pass 08:16:25 AM Aug 06, 202 TRACE 12 3 4 5 TAPE A WAYNY DET A NNNN Mkr1 4.017 7 GH; -36.367 dBn |
| 19.60 | Port 2, Band n14, 758 Frequency Range 1.2 GHz - 8 GH am Analyzer - Element Materials Tec RF 50 Ω DC CORR Ref Officiel 27.6 dB Ref 29.60 dBm | 3 - 768 Mhz, 5 Iz cc PNO: Fast IFGain:Low | MHz Bandwidth, Measure Freq (MH 4021.32 SENSE:INT Trig: Free Ru #Atten: 22 dE | 256QAM M ed Ma: 1z) ((2 -: 1 ALIC | Iodulation, x Value dBm) 36.37 SN AUTO Avg Type: Avg Hold: | Mid Channel, Limit < (dBm) -19 RMS 100/100 | 763 MHz Result Pass 08:16:25 AM Aug 06, 23 42 TRACE 12 23 44 Aug 06, 23 42 TRACE 12 24 AUG 06, 23 42 TYPE AWWWN DET 7 7 GH: -36.367 dBn |
| Keysight Spectru Keysight Spectru R L 10 dB/div R 19.6 9.60 | Port 2, Band n14, 758 Frequency Range 1.2 GHz - 8 GH and Analyzer - Element Materials Tec RF 50 Ω DC CORR Ref Offset 27.6 dB Ref 29.60 dBm | 3 - 768 Mhz, 5 Iz hnology EC PNO: Fast IFGain:Low | MHz Bandwidth, Measure Freq (MH 4021.32 SENSE:INT | 256QAM M ed Ma: 1z) (1 2 -: 1 ALIC | Iodulation, x Value dBm) 36.37 SN AUTO Avg Type: Avg Hold: | Mid Channel, Limit < (dBm) -19 RMS 100/100 | 763 MHz Result Pass 08:16:25 AM Aug 06, 202 TRACE 23 4 S TYPE AWWWN DET A NNNN Mkr1 4.017 7 GH -36.367 dBn |
| Keysight Spectru MRL 10 dB/div 19.6 9.60 | Port 2, Band n14, 758 Frequency Range 1.2 GHz - 8 GH um Analyzer - Element Materials Tec RF 50 Ω DC CORR Ref 29.60 dB Ref 29.60 dB | 3 - 768 Mhz, 5 Iz C PNO: Fast IFGain:Low | MHz Bandwidth, Measure Freq (MH 4021.32 SENSE:INT → Trig: Free Ru #Atten: 22 dE | 256QAM M ad Ma: 12) ((2 - | Iodulation, x Value dBm) 36.37 SN AUTO Avg Type: Avg Hold: | Mid Channel, Limit < (dBm) -19 RMS 100/100 | 763 MHz Result Pass 08:16:25 AM Aug 06, 202 08:16:25 AM Aug 06, 202 TRACE 2 3 4 5 TYPE A WWWW DET A NNNN Mkr1 4.017 7 GH -36.367 dBn |
| Keysight Spectru Keysight Spectru Keysight Spectru Keysight Spectru R | Port 2, Band n14, 758 Frequency Range 1.2 GHz - 8 GH am Analyzer - Element Materials Tec RF 50 Ω DC CORR Ref 29,60 dBm | 3 - 768 Mhz, 5 Iz hnology CC PNO: Fast IFGain:Low | MHz Bandwidth, Measure Freq (MH 4021.32 SENSE:INT Trig: Free Ru #Atten: 22 dE | 256QAM M ed Ma: 1z) ((2 - | Iodulation, x Value dBm) 36.37 SN AUTO Avg Type: Avg Hold: | Mid Channel, Limit < (dBm) -19 RMS 100/100 | 763 MHz Result Pass 08:16:25 AM Aug 06, 202 08:16:25 AM Aug 06, 202 TRACE 2 3 4 5 TYPE A WWWW DET A NNNN Mkr1 4.017 7 GH2 -36.367 dBm |
| Keysight Spectru Keysight Spectru Keysight Spectru Keysight Spectru Keysight Spectru R | Port 2, Band n14, 758 Frequency Range 1.2 GHz - 8 GH am Analyzer - Element Materials Tex RF 50 Ω DC CORR Correct Correct Correct Ref 29.60 dBm | 3 - 768 Mhz, 5 | MHz Bandwidth, Measure Freq (MH 4021.32 SENSE:INT → Trig: Free Ru #Atten: 22 dE | 256QAM M ed Ma: 12 (1 2 -: 1 ALIC | Iodulation, x Value dBm) 36.37 Avg Type: Avg]Hold: | Mid Channel, Limit < (dBm) -19 RMS 100/100 | 763 MHz |
| Keysight Spectru R L IO dB/div R 9.60 | Port 2, Band n14, 758 Frequency Range 1.2 GHz - 8 GH am Analyzer - Element Materials Tee RF 50 Ω DC CORR Ref 29.60 dBm | 3 - 768 Mhz, 5 | MHz Bandwidth, Measure Freq (MI- 4021.32 SENSE:INT → Trig: Free Ru #Atten: 22 dE | 256QAM M ed Ma: 2 : (1 2 | Iodulation, x Value dBm) 36.37 Avg Type: Avg Hold: | Mid Channel, Limit < (dBm) -19 RMS 100/100 | 763 MHz Result Pass 08:16:25 AM Aug 06, 202 TRACE 23 4 5 TYPE 4 NINNN Mkr1 4.017 7 GH2 -36.367 dBm DL1-19:00-88 |
| Keysight Spectru IO dB/div R 19.6 | Port 2, Band n14, 758 Frequency Range 1.2 GHz - 8 GH an Analyzer - Element Materials Tee RF 50 Ω DC CORR Ref 29,60 dBm | 3 - 768 Mhz, 5 | MHz Bandwidth, Measure Freq (MI 4021.32 SENSE:INT → Trig: Free Ru #Atten: 22 dE | 256QAM M ed Ma: 2: 2: | Iodulation, x Value dBm) 36.37 Avg Type: Avg Hold: | Mid Channel, Limit < (dBm) -19 RMS 100/100 | 763 MHz Result Pass 08:16:25 AM Aug 06, 202 TRACE 23 4 5 TVPE 4 NNNN Mkr1 4.017 7 GH2 -36.367 dBn |
| Keysight Spectru ID dB/div R 10 dB/div R 19.6 - - 9.60 - - -0.40 - - -30.4 - - | Port 2, Band n14, 758 Frequency Range 1.2 GHz - 8 GH am Analyzer - Element Materials Tec RF 50 Ω DC CORR Ref 29,60 dBm | 3 - 768 Mhz, 5 | MHz Bandwidth, Measure Freq (MI- 4021.32 SENSE:INT → Trig: Free Ru #Atten: 22 dE | 256QAM M ed Ma: 12) ((2 -: 1 ALIC | Iodulation, x Value dBm) 36.37 Avg Type: Avg Hold: | Mid Channel, Limit < (dBm) -19 RMS 100/100 | 763 MHz Result Pass 08:16:25 AM Aug 06, 202 TRACE 12:3 4 5 TAPE 4 WAYN Mkr1 4.017 7 GH2 -36.367 dBn DL1 -19:00 dB |
| Image: Keysight Spectru Image: Keysight Spectru | Port 2, Band n14, 758 Frequency Range 1.2 GHz - 8 GH an Analyzer - Element Materials Tec RF 50 Ω DC CORR Ref Offiset 27.6 dB Ref 29.60 dBm | 3 - 768 Mhz, 5 | MHz Bandwidth, Measure Freq (MH 4021.32 SENSE:INT → Trig: Free Ru #Atten: 22 dE | 256QAM M ed Ma: 1z) ((2 -:) ALIC | Iodulation, x Value dBm) 36.37 Avg Type: Avg Hold: | Mid Channel, Limit < (dBm) -19 RMS 100/100 | 763 MHz |
| Keysight Spectru Keysight Spectru R L In dB/div R | Port 2, Band n14, 758 Frequency Range 1.2 GHz - 8 GH an Analyzer - Element Materials Tec RF 50 Ω DC CORR Ref Offiset 27.6 dB Ref 29.60 dBm | 3 - 768 Mhz, 5 | MHz Bandwidth, Measure Freq (MH 4021.32 SENSE:INT → Trig: Free Ru #Atten: 22 dE | 256QAM M ed Ma: 1z) ((2 | Iodulation, x Value dBm) 36.37 Avg Type: Avg Hold: | Mid Channel Limit < (dBm) -19 RMS 100/100 | 763 MHz |
| Keysight Spectru R L R O dB/div F 19.6 | Port 2, Band n14, 758 Frequency Range 1.2 GHz - 8 GH an Analyzer - Element Materials Tec RF 50 Ω DC CORR Ref Offiset 27.6 dB Ref 29.60 dBm | 3 - 768 Mhz, 5 | MHz Bandwidth, Measure Freq (MH 4021.32 SENSE:INT → Trig: Free Ru #Atten: 22 dE | 256QAM M ed Ma: 1z) ((2 | Iodulation, x Value dBm) 36.37 Avg Type: Avg Hold: | Mid Channel Limit < (dBm) -19 RMS 100/100 | 763 MHz |
| Keysight Spectru Keysight Spectru R L Log B/div R 19.6 | Port 2, Band n14, 758 Frequency Range 1.2 GHz - 8 GH an Analyzer - Element Materials Tec RF 50 Ω DC CORR Ref Offset 27.6 dB Ref 29.60 dBm | 3 - 768 Mhz, 5 | MHz Bandwidth, Measure Freq (MH 4021.32 SENSE:INT Trig: Free Ru #Atten: 22 dB | 256QAM M ed Ma: 1z) ((2 -: | Iodulation, x Value dBm) 36.37 Avg Type: Avg Hold: | Mid Channel, Limit < (dBm) -19 RMS 100/100 | 763 MHz |
| Keysight Spectru Keysight Spectru RL R 10 dB/div R 9 60 | Port 2, Band n14, 758 Frequency Range 1.2 GHz - 8 GH and Analyzer - Element Materials Tec RF 50 Ω DC CORR Ref Offset 27.6 dB Ref 29.60 dBm | 3 - 768 Mhz, 5 | MHz Bandwidth, Measure Freq (MI- 4021.32 SENSE:INT → Trig: Free Ru #Atten: 22 dE | 256QAM M ed Ma: 2 : (1 2 : ALIC in 3 | Iodulation, x Value dBm) 36.37 Avg Type: Avg]Hold: | Mid Channel, Limit < (dBm) -19 RMS 100/100 | 763 MHz |
| Keysight Spectru RL R dB/div R dB/div R d0 40 41 42 43 44 45 46 47 48 49 40 41 42 43 44 45 46 47 48 49 40 41 42 43 44 45 46 47 48 | Port 2, Band n14, 758 Frequency Range 1.2 GHz - 8 GH an Analyzer - Element Materials Tee RF 50 Ω DC CORR Ref 29.60 dBm Comparison of the second seco | 3 - 768 Mhz, 5 | MHz Bandwidth, Measure Freq (MI- 4021.32 SENSE:INT → Trig: Free Ru #Atten: 22 dE | 256QAM M ed Ma: 2: . ALIC | Iodulation, x Value dBm) 36.37 Avg Type: Avg Hold: | Mid Channel, Limit < (dBm) -19 RMS 100/100 | 763 MHz |



| Fr | equency | Measured | Max Value | Limit | D It | |
|--|---------------------------|--|--|------------------|--------------------------|--|
| | Range | Freq (MHz) | (dBm) | < (dBm) | Result | |
| 9 KH | z - 150 kHz | 0.01 | -51.72 | -39 | Pass | |
| ······································ | | | | | | |
| Keysight Spectrum Analyzer - Eleme | DC CORREC | SENSE:INT | ALIGN AUTO | | 10:35:22 AM Aug 04, 202 | 22 |
| | | Trig: Free Run | Avg Type | : RMS 100/100 | TRACE 1 2 3 4 5 | 6 |
| | PNO: Wide + IFGain:Low | #Atten: 12 dB | , triginiola. | 100/100 | DETANNN | IN |
| Ref Offset 27.9 | dB | | | | Mkr1 9.300 kH | z |
| 10 dB/div Ref 11.90 dE | Sm | | | | -51.719 dBr | n |
| LUg | | The second se | | | | |
| 1.90 | | | | | | |
| | | | | | | |
| -8.10 | | | | | | |
| | | | | | | |
| -18.1 | | | | | | |
| | | | | | | |
| -28.1 | | | | | | |
| -38.1 | | | | | DL1 -39.00 dB | am. |
| | | | | | | |
| -48.1 1 | | | | | | |
| man and | | ٨ | | | D | |
| -58.1 | Num - 1 | | | | | |
| 69.4 | and when we want | man have a | | ۸ | | |
| -00.1 | | the for the second seco | ······································ | 1 mmmmm | many have | ~ |
| -78.1 | | | | | | |
| | | | | | | |
| Start 0.00 kHz | | | | | Stop 150 00 kH | |
| #Res BW 1.0 kHz | #\ | /BW 3.0 kHz* | | #Sweep 1 | 74.4 ms (800 <u>1 pt</u> | s) |
| MSG | | | STATUS | | | |
| | | | | | | And the owner of the owner |

| FUILZ, BAILUTIT4, 750 - 700 WILZ, TO WIL | iz banuwiuti, 200 | QAIN MOUUIATION | , IVIIU GHAIIITEI, 70 | |
|--|-------------------|-----------------|-----------------------|--------|
| Frequency | Measured | Max Value | Limit | |
| Range | Freq (MHz) | (dBm) | < (dBm) | Result |
| 150 kHz - 20 MHz | 0.15 | -49.15 | -29 | Pass |

| | | | | | Trig: Free | Run | Avg Type: | RMS | TF | TYPE A WAR |
|--------------------|-----------------------------|-------------------------------|------------------|---------------------------|--|-----------------------|----------------------|---------|----------------------|-------------------------------------|
| | | | | PNO: Fast ↔ IFGain:Low | #Atten: 10 | 6 dB | Avginoid. | 100/100 | | DET A N N N |
| lB/div | Ref Offs Ref 11. | et 27.7 dE . 70 dBm | 3 | | | | | | Mkr1 1 -49. | 155.0 kl 147 dB |
| | | | | | | Ĭ | | | | |
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| | | | | | | | | | | DI 1 -29.00 |
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| | | | | | | | | | | |
| rt Touk Is BW 1 | N KH7 | | | #V | BW 30 kHz* | | | #Swee | Stop 2 n 174.4 ms | 20.000 Mi 20.000 Mi 20.000 Mi |



| | Port 2 Band n14 758 - 76 | 8 Mhz 10 MH | Iz Bandwidth 256 | OAM Modulation | Mid Channel 76 | 3 MHz | |
|-------------------|--|--------------------------|---------------------------------|-------------------------|-------------------|---|--|
| | Frequency | 0 10112, 10 101 | Measured | Max Value | Limit | 0 10112 | |
| | Range | | Freq (MHz) | (dBm) | < (dBm) | Result | |
| | 20 MHz - 1.2 GHz | | 737 | -38.61 | -19 | Pass | |
| | | | | | | | |
| Keysight Spectrum | Analyzer - Element Materials Technolog | y cr | automated | | | | |
| | - SUS2 DC CORREC | SE | NSEINI | ALIGN AUTO Avg Type: | RMS | TRACE 1 2 3 4 5 6 | |
| | PI IE(| NO: Fast +++ Gain:Low | Trig: Free Run #Atten: 20 dB | Avg Hold: | 100/100 | DET A NNNN | |
| B | | | | | Mk | r1 737.00 MHz | |
| 10 dB/div Re | f 43.60 dBm | | | | | -38.608 dBm | |
| | | | Ý | | | | |
| 33.6 | | | | | | | |
| | | | | h | | | |
| 23.6 | | | | | | | |
| | | | | | | | |
| 13.6 | | | | | | | |
| | | | | | | | |
| 3.60 | | | | | | | |
| -6.40 | | | | | | | |
| 0.40 | | | | | | | |
| -16.4 | | | | | | DL1 -19.00 dBm | |
| | | | | | | | |
| -26.4 | | | | | | | |
| | | | | 1 | | | |
| -36.4 | | dhan da | | | | | |
| -46.4 | | | | | | أكال المتعادل والمركبة المستلمية المتحد الأحداث الألادة | |
| | | | | | | | |
| Start 0 0200 C | | | | | | Stop 1 2000 CHa | |
| #Res BW 100 | kHz | #VBW | 300 kHz* | | #Sweep <u>176</u> | 5.0 ms (30000 <u>pts)</u> | |
| MSG | | | | STATUS | | | |
| | | | | | | | |
| | Port 2, Band n14, 758 - 76 | 8 Mhz, 10 MF | Iz Bandwidth, 256 | QAM Modulation | , Mid Channel, 76 | 3 MHz | |
| | Frequency | | Measured | Max Value | Limit | Bocult | |
| | | | 4011.8 | -36.4 | -19 | Pass | |

| Keysight Spe | ectrum Analyzer - Element Materia | ls Technology | | | and an | | |
|-------------------|-------------------------------------|---------------|-----------------------------------|--|--|------------------|---|
| RL | RF 50 Ω DC C | PNO: Fast ++ | . Trig: Free Run #Atten: 22 dB | ALIGN AUTO Avg Type: Avg Hold: 1 | RMS 100/100 | 08:18:52 TF | AM Aug 06, 20 ACE 1 2 3 4 1 TYPE A WWW DET A N N N |
| dB/div | Ref Offset 27.6 dB Ref 29.60 dBm | | | | | Mkr1 4.0 -36. | 08 6 GI 392 dB |
| 9 | | | Ĭ | | | | į . |
| .6 | | | | | | | |
| 0 | | | | | | | |
| 0 | | | | | | | |
| 4 | | | | | | | |
| 4 | | | | | | | DL1 -19.00 |
| 4 | | | 1 | | | | |
| 4 | | | • <u> </u> | \sim | | | |
| 4 | | | | | | | |
| 4 | | | | | | | |
| | | | | | | | |
| art 1.20 es BW | 0 GHz 1.0 MHz | #VB | W 3.0 MHz* | | #Sweep | Stop 175.0 ms | 8.000 G (15000 j |
| - RANGEN OF | | | ing a state of the state of the | STATUS | enses de transiste | entes de la te | |



| Normal Tried (mint) (ubm) Floating 1.559 GHz - 1.61 GHz 1600.11 -62.67 -46 Pass Keylight Spectrum Analyse - Element Material Echology Analon GF 074955 M Aug(4, 202 074955 M Aug(4, 202 M K RF 59.9 DC CORREC SENSE: INT Analon GF 074955 M Aug(4, 202 M K INF 59.9 DC CORREC SENSE: INT Analon GF 074955 M Aug(4, 202 M K INF 59.9 DC CORREC SENSE: INT Analon GF 074955 M Aug(4, 202 M K INF 1.559 GHZ - 1.61 GHz Trig: Free Run Analon GF 074955 M Aug(4, 202 M K INF INF INF INF INF INF 10 dB/dut Ref Onfset 24.4 dB MKr1 1.600 GHZ MKr1 1.600 GHZ INF -62.667 dBn 20.6 INF INF INF INF INF INF 20.6 INF INF INF INF INF INF 20.6 INF INF I | | Frequency | Measured | Max Value | Limit | Posult |
|--|--------------------------------------|------------------------------------|--|------------------------|-----------------|--|
| Image: start 1.55900 CHz Image: start 1.55900 CHz Image: start 1.55900 CHz Image: start 1.55900 CHz Start 1.55900 CHz Image: start 1.55900 CHz Image: start 1.55900 CHz Image: start 1.55900 CHz Image: start 1.55900 CHz Start 1.55900 CHz Image: start 1.55900 CHz Start 1.55900 CHz Image: start 1.55900 CHz Port 1, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 16CAM Modulation, Mid Channel, 763 MHz Image: start 1.55900 CHz Image: start 1.55900 CHz Image: start 1.55900 CHz Image: start 1.55900 CHz Image: start 1.55900 CHz Image: start 1.55900 CHz Image: start 1.55900 CHz Image: start 1.55900 CHz Image: start 1.55900 CHz Image: start 1.55900 CHz Image: start 1.55900 CHz Image: start 1.55900 CHz Image: start 1.55900 CHz Image: start 1.55900 CHz Image: start 1.55900 CHz Image: start 1.55900 CHz Image: start 1.55900 CHz Image: start 1.55900 CHz Image: start 1.55900 CHz Image: start 1.55900 CHz Image: start 1.55900 CHz Image: start 1.55900 CHz Image: start 1.55900 CHz Image: start 1.55900 | 1 | 1 559 GHz - 1 61 GHz | 1600 11 | -62.67 | -46 | Pass |
| RE RF SOR DC CORREC SENSEINT Auton OF 07:49:56 Mappé, 202 PR0: Fast | Kevsight Spectrum Analyz | zer - Element Materials Technology | 1000.11 | | | |
| PNO: East IFGain:Low Trig: Free Run #Atten: 6 dB Avg1ybe: KMS Avg1ybe: KMS Av | IXI RL RF | 50 Ω DC CORREC | SENSE:INT | ALIGN OFF | | 07:49:56 AM Aug 04, 2022 |
| Ref Offset 24.4 dB Mkr1 1.600 1111 1 GH: -62.667 dBm 100 -62.667 dBm 100 -62.67 dBm 100 -62.667 dBm 100 -62.64 100 -62.64 100 -62.64 100 -62.64 | | PNO: IFGain | Fast ↔ Trig: Free Run :Low #Atten: 6 dB | Avg Type: Avg Hold: | RMS 100/100 | TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A NNNNN |
| Log 106 206 306 406 506 506 506 506 506 506 506 5 | Ref Offs 10 dB/div Ref -0. | set 24.4 dB .60 dBm | | | Mkr1 1 | .600 111 1 GHz -62.667 dBm |
| 1006 | Log | | | | | |
| -20.6 | 10 P | | | | | |
| 2016 | | | | | | |
| -30.6 -30.6 <td< td=""><td>-20.6</td><td></td><td></td><td></td><td></td><td></td></td<> | -20.6 | | | | | |
| 306 Image I | | | | | | |
| 40.6 0 | -30.6 | | | | | |
| -40.6 0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | |
| 50.6 0.1 0.1 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 | -40.6 | | | | | |
| 60.6 1 60.6 1 70.6 1 70.6 1 90.6 1 90.6 1 Start 1.55900 GHz #VBW 3.0 MHz* #Res BW 1.0 MHz #VBW 3.0 MHz* #Sweep 174.7 ms (10001 pts MsG start 3.559 GHz Stop 1.61000 GHz Frequency Measured Max Value Limit Range Freq (MHz) 1.559 GHz - 1.61 GHz 1609.72 -62.64 -46 | | | | | | DL1 -46.00 dBm |
| 460 6 1 70 6 1 90 7 1 90 8 1 90 8 1 90 9 1 1 1 9 | -50.6 | | | | | |
| 60 6 | | | | | 1 | |
| 70.6 80.6 90.0 90.6 90.0 90.6 90.0 | -60.6 | | | | V | |
| 30.6 | 70.0 | | | | | |
| 60.6 | -/U.6 | | | | | |
| Start 1.55900 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* #Sweep 174.7 ms (10001 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* #Sweep 174.7 ms (10001 pts starus Port 1, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 16QAM Modulation, Mid Channel, 763 MHz Frequency Measured Max Value Limit Range Freq (MHz) (dBm) < (dBm) Result 1.559 GHz - 1.61 GHz 1609.72 -62.64 -46 Pass | -80.6 | | | | | |
| Start 1.55900 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* #Sweep 174.7 ms (10001 Pts #start 1.55900 GHz #VBW 3.0 MHz* #Sweep 174.7 ms (10001 pts starus Starus Starus Stop 1.61000 GHz starus Starus Stop 1.61000 GHz Starus Starus Stop 1.61000 GHz Starus Starus Stop 1.61000 GHz Starus Starus Starus Stop 1.61000 GHz Starus Starus Starus Stop 1.61000 GHz Starus Starus Starus Stop 1.61000 GHz Starus Starus Starus Stop 1.61000 GHz Starus Starus Starus Stop 1.61000 GHz Starus S | | | | | | |
| Start 1.55900 GHz Stop 1.61000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* #Sweep 174.7 ms (10001 pts Msg startus starus Port 1, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 16QAM Modulation, Mid Channel, 763 MHz Frequency Measured Max Value Limit Range Freq (MHz) (dBm) < (dBm) | -90.6 | | | | | |
| Start 1.55900 GHz Stop 1.61000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* #Sweep T74.7 ms (10001 pts MSG Istartus Istartus Istartus Port 1, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 16QAM Modulation, Mid Channel, 763 MHz Frequency Measured Max Value Limit Range Freq (MHz) (dBm) < (dBm) | | | | | | |
| Mices DVF Ho Mill2 #VDV 50 Mill2 #Sweep T/4.7 IIIS (1000 Fpts Mices DVF Ho Mill2 #Sweep T/4.7 IIIS (1000 Fpts Mices DVF Ho Mill2 Istarus Istarus Port 1, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 16QAM Modulation, Mid Channel, 763 MHz Frequency Frequency Measured Max Value Limit Range Freq (MHz) (dBm) < (dBm) | Start 1.55900 GHz #Res BM 1.0 MHz | Z | #VBM 3.0 MH=* | | #Sween_17 | Stop 1.61000 GHz |
| Initial Port 1, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 16QAM Modulation, Mid Channel, 763 MHz Frequency Measured Max Value Limit Range Freq (MHz) (dBm) < (dBm) 1.559 GHz - 1.61 GHz 1609.72 -62.64 -46 Pass | WRCS DWY 1.0 WITZ | | #VBVV 5.0 WITZ | STATUS | #oweep II | 4.7 ms (10001 pts) |
| Port 1, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 16QAM Modulation, Mid Channel, 763 MHz Frequency Measured Max Value Limit Range Freq (MHz) (dBm) < (dBm) Result 1.559 GHz - 1.61 GHz 1609.72 -62.64 -46 Pass | | | | STATUS | | |
| Frequency Measured Max Value Limit Range Freq (MHz) (dBm) < (dBm) Result 1.559 GHz - 1.61 GHz 1609.72 -62.64 -46 Pass | Por | t 1, Band n14, 758 - 768 I | Mhz, 5 MHz Bandwidth, 1 | 6QAM Modulation, | Mid Channel, 76 | 3 MHz |
| Interpretended Interpr | | Frequency | Measured | Max value | | Posult |
| | 1 | 1.559 GHz - 1.61 GHz | 1609 72 | -62.64 | -46 | Pass |
| | | | 1000.12 | 02.01 | -10 | 1 400 |

| LXI RL | RF | 50 Ω DC | CORREC | | SENSE:INT | | ALIGN OFF | | 08:38:12 | AM Aug 04, 2022 |
|-----------------------|-----------------------|-----------------------------|--------|--------------------------|-----------------------------|-----------|------------------------|----------------|---------------------|---|
| | | | | PNO: Fast 🔸 FGain:Low | . Trig: Free #Atten: 6 d | Run IB | Avg Type: Avg Hold: | RMS 100/100 | TR | ACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN |
| 10 dB/div | Ref Offse Ref -0.6 | et24.4 dB 3 0 dBm | | | | | | Mkr | 1.609 7 -62. | 19 5 GHz 641 dBm |
| -10.6 | | | | | | | | | | |
| -20.6 | | | | | | | | | | |
| -30.6 | | | | | | | | | | |
| -40.6 | | | | | | | | | | |
| -50.6 | | | | | | | | | | UL1 -46.00 dem |
| -60.6 | | | | | | | | | | |
| -70.6 | | | | | | | | | | |
| -80.6 | | | | | | | | | | |
| -90.6 | | | | | | | | | | |
| Start 1.5: #Res BW | 5900 GHz 1.0 MHz | | | #VB | W 3.0 MHz | * | | #Sweep | Stop 1. 174.7 ms | 61000 GHz (10001 pts) |
| MSG | | | | automotion and | | | STATUS | | | |



| Frequency Measured Max Value Limit Range Freq (MHz) (dBm) < (dBm) Result 1.59 GHz.161 GHz 1604.83 -0.2.83 -46 Pass Provide Sector Mathematic Technology Measured Max Value Limit 02.448 Max (Value) 02.400 <t< th=""><th></th><th>Port</th><th>1 Band n14 758.</th><th>768 Mbz 5 MH</th><th>Iz Bandwidth 640</th><th>AM Modulation</th><th>Mid Channel 763</th><th>3 MHz</th></t<> | | Port | 1 Band n14 758. | 768 Mbz 5 MH | Iz Bandwidth 640 | AM Modulation | Mid Channel 763 | 3 MHz | | |
|---|---|-----------------------------------|------------------------------|-----------------------------|--------------------------------|-----------------|-----------------|--|--|--|
| Range Freq (MHz) (dBm) < (dBm) Result 1.559 GHz-1.61 GHz 1604.83 -62.68 -46 Pass Image: State State Image: State State State Image: State | | 1 011 | Frequency | | Measured | Max Value | Limit | | | |
| 1.559 GHz - 1.61 GHz 1604.83 -62.68 -46 Pass Registering address to receive a server in the technology If it is is a colspan="2">Registering address to receive addre | | | Range | | Freq (MHz) | (dBm) | < (dBm) | Result | | |
| Trystall Spectrum Analyzer - Bernert Manualt Technology Autor Off Autor Off Option 1000000000000000000000000000000000000 | | 1 | .559 GHz - 1.61 GI | Ηz | 1604.83 | -62.68 | -46 | Pass | | |
| Projekt Spectrum Markers/Technology PRO: Fast | | | | | | | | | | |
| Mith Bit Bit Market Market Bit | | Keysight Spectrum Analyze | er - Element Materials Techn | ology | | | | | | |
| PRO-Fast #Atten: 6 dB Avg hidd: 100/100 Tric: Free Run #Atten: 6 dB Avg hidd: 100/100 Ref Offset 24.4 dB Mkr1 1.604 828 6 GHz .62.677 dBm .62.677 dBm 106 .006 .007 .62.677 dBm 106 .006 .007 .007 .007 .006 .006 .007 .007 .007 .007 .006 .006 .007 .007 .007 .007 .007 .006 .007 .007 .007 .007 .007 .007 .007 .006 .007 . | LXI. | RL RF | 50 Ω DC CORREC | SE | INSE:INT | ALIGN OFF | RMS | 08:34:48 AM Aug 04, 202 TRACE 1 2 3 4 5 | | |
| Ref offset 24.4 dB Mkr1 1.604 828 6 GHz 105 62.677 dBm 1160 62.61 105 62.677 dBm 105 70.6 105 70.6 105 70.6 105 70.6 105 70.6 105 70.6 105 70.6 105 70.6 105 70.6 105 70.6 105 70.6 105.9 | | | | PNO: Fast +++ IFGain:Low | Trig: Free Run #Atten: 6 dB | Avg Hold: 1 | 100/100 | TYPE A WWWW DET A N N N N | | |
| Log 106 206 206 206 206 206 206 206 2 | 10 | dB/div Ref Offs | et 24.4 dB 6 0 dBm | | | | Mkr1 1 | 604 828 6 GH. 62.677 dBn- | | |
| | Lo | g | | | Ť | | | | | |
| 006 01.4600.461 006 01.4600.461 006 01.4600.461 006 01.4600.461 006 01.4600.461 006 01.4600.461 006 01.4600.461 007 01.4600.461 008 01.4600.461 008 01.4600.461 008 01.4600.461 008 01.4600.461 008 01.4600.461 008 01.4600.461 008 01.4600.461 008 01.4600.461 008 01.4600.461 008 01.4600.461 008 01.4600.461 008 01.4600.461 01.4600.461 01.4600.461 01.4600.461 01.4600.461 01.4600.461 01.4600.461 01.4600.461 01.4600.461 01.4600.461 01.4600.461 01.4600.461 01.4600.461 01.4600.461 01.4600.461 01.4600.461 01.4600.461 01.4600.461 <t< td=""><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<> | 10 | | | | | | | | | |
| -006 -01 <td>-10</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | -10 | | | | | | | | | |
| -0.6 | -20 |).6 | | | | | | | | |
| 30.6 0.1 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.0 0.1 0.0 0.0 0.1 0.0 0.0 0.1 0.0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | | | | | |
| 4016 CC1.46.00 dem 5017 CC1.46.00 dem Start 1.55900 GHz #VBW 3.0 MHz* #Stees BW 1.0 MHz #VBW 3.0 MHz* #Stees BW 1.0 MHz #VBW 3.0 MHz* #Stees BW 1.0 MHz #VBW 3.0 MHz* Frequency Measured Max Value Limit Range Freq (MHz) Max Value Limit 1.559 GHz - 1.61 GHz 1603 1.559 GHz - 1.61 GHz 1603 1.559 GHz - 0.00 Gem GBM 4.00 OFF Water 8 dB Auton OFF PRO, Fast + Trig: Free Run AvgThyre: RMS AvgHoid: 100/100 Tree Stee | -30 |).6 | | | | | | | | |
| 40.6 C1600 Gen 50.6 1 60.6 1 70.6 1 90.7 1 80.0 1.5590 GHz 1.559 GHz - 1.61 GHz 1603 1.559 GHz - 1.61 GHz 1603 1.559 GHz - 1.61 GHz 1003 1.603 -62.61 98 00:0 C CORREC Stratter 1.602 98 00:0 1 | | | | | | | | | | |
| 50.6 0.1 #0.00#m 50.6 1 50.6 1 50.6 1 50.6 1 50.6 1 50.6 1 50.6 1 50.6 1 50.6 1 50.6 1 50.6 1 50.6 1 50.6 1 50.6 1 50.7 5 50.8 1.5590.0 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Start 1.5590.0 GHz #VBW 3.0 MHz* Start 1.5590.0 GHz #VBW 3.0 MHz* Start 1.5590.0 GHz #VBW 3.0 MHz* Badded Hz 1.61000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Frequency Measured Max Value Limit Range Freq (MHz) (dBm) < (dBm) | -40 |).6 | | | | | | | | |
| 305 1 406 1 507 1 508 1 508 1 508 1 508 1 508 1 508 1 508 1 508 1 508 1 508 1 508 1 508 1 508 1 1 1 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>DL1 -46.00 dB</td> | | | | | | | | DL1 -46.00 dB | | |
| 606 1 706 1 706 1 706 1 706 1 706 1 706 1 706 1 706 1 706 1 706 1 706 1 706 1 706 1 707 1 708 1 709 1 806 1 Start 1.55900 GHz #VEW 3.0 MHz* Stop 1.61000 GHz #VEW 3.0 MHz* Stop 1.61000 GHz #Stop 1.6100 GHz <td <="" colspan="2" td=""><td>-50</td><td>1.6</td><td></td><td></td><td></td><td></td><td></td><td></td></td> | <td>-50</td> <td>1.6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | -50 | 1.6 | | | | | | |
| -70.6 -0.6 | -60 | 16 | | | | | | 1 | | |
| -70.6 -70.6 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Ť.</td></t<> | | | | | | | | Ť. | | |
| 60.6 90.6 | -70 |).6 | | | | | | | | |
| 60.6 | | | | | | | | | | |
| 3016 Start 1.55900 GHz #VBW 3.0 MHz* Stop 1.61000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* #Sweep 174.7 ms (10001 pts) MSG STATUS Port 1, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 256QAM Modulation, Mid Channel, 763 MHz Frequency Measured Max Value Limit Rege Freq (MHz) (dBm) Add B | -80 |).6 | | | | | | | | |
| Start 1.55900 GHz Stop 1.61000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* #Stop 1.61000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* #Stop 1.61000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* #Stop 1.61000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* #Stop 1.61000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* #Stop 1.61000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* #Stop 1.61000 GHz Port 1, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 256QAM Modulation, Mid Channel, 763 MHz Init Frequency Measured Max Value Limit Range Freq (MHz) (dBm) < (dBm) | | | | | | | | | | |
| Start 1.55900 GHz #Res BW 1.0 MHz Stop 1.61000 GHz #Stop 1.61000 GHz #Stop 1.61000 GHz #Sweep 174.7 ms (10001 pts) MsG Start us Port 1, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 256QAM Modulation, Mid Channel, 763 MHz Frequency Measured Max Value Limit Range Freq (MHz) (dBm) < (dBm) Result 1.559 GHz - 1.61 GHz 1603 -62.61 -46 Pass Keysight Spectrum Analyzer - Element Materials Technology Max Link Off 06:40:40 AM aug 04, 2022 PNO: Fast → Trig: Free Run IFGain:Low Auglifold: 100/100 Trace 2.3 4 ±00 PNO: Fast → Trig: Free Run IFGain:Low Avg Type: RMS Avg/Hoid: 100/100 Mkr1 1.602 997 7 GHz | -90 |).6 | | | | | | | | |
| Start 1.55900 GHz #Res BW 1.0 MHz Stop 1.61000 GHz #Sweep 174.7 ms (10001 pts) MsG starus Port 1, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 256QAM Modulation, Mid Channel, 763 MHz Frequency Measured Max Value Limit Range Freq (MHz) (dBm) < (dBm) | | | | | | | | | | |
| MSG STATUS Port 1, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 256QAM Modulation, Mid Channel, 763 MHz Frequency Measured Max Value Limit (dBm) < (dBm) | Sta #R | art 1.55900 GHz Res BW 1.0 MHz | | #VBW | / 3.0 MHz* | | #Sweep 17 | Stop 1.61000 GH 4.7 ms (10001 pts | | |
| Port 1, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 256QAM Modulation, Mid Channel, 763 MHz Frequency Measured Max Value Limit Range Freq (MHz) (dBm) < (dBm) Result 1.559 GHz - 1.61 GHz 1603 -62.61 -46 Pass Keysight Spectrum Analyzer - Element Materials Technology RL RF 50 Q DC CORREC SENSE:INT ALIGN OFF 08:49040 AM Aug 004, 2022 Avg Type: RMS Avg Type: RMS Avg Type: RMS Avg Type: RMS Ref Offset 24.4 dB Mkr1 1.602 997 7 GHz | MSG | 3 | | | | STATUS | | | | |
| Frequency Measured Max Value Limit Range Freq (MHz) (dBm) < (dBm) Result 1.559 GHz - 1.61 GHz 1603 -62.61 -46 Pass | | Port | 1. Band n14, 758 - | 768 Mhz, 5 MH; | z Bandwidth, 2560 | QAM Modulation. | Mid Channel. 76 | 3 MHz | | |
| Range Freq (MHz) (dBm) < (dBm) Result 1.559 GHz - 1.61 GHz 1603 -62.61 -46 Pass Keysight Spectrum Analyzer - Element Materials Technology ALIGN OFF 08:40:40 AM Aug 04, 2022 Keysight Spectrum Analyzer - Element Materials Technology ALIGN OFF 08:40:40 AM Aug 04, 2022 NO: Fast → Trig: Free Run IF Gain:Low Aug Type: RMS Avg Type: RMS Trace 12.3.4.5.9 Avg Type: RMS PNO: Fast → Trig: Free Run IF Gain:Low Mkr1 1.602 997 7 GHz | | | Frequency | | Measured | Max Value | Limit | | | |
| 1.559 GHz - 1.61 GHz 1603 -62.61 -46 Pass Keysight Spectrum Analyzer - Element Materials Technology ALIGN OFF 08:40:40 AM Aug 04, 2022 RL RF 50 Ω DC CORREC SENSE:INT ALIGN OFF 08:40:40 AM Aug 04, 2022 PNO: Fast + Trig: Free Run IFGain:Low Trig: Free Run #Atten: 6 dB Avg Type: RMS Avg[Hold: 100/100 TRACE 02.3 4.50 TYPE A WINNING | | | Range | | Freq (MHz) | (dBm) | < (dBm) | Result | | |
| Keysight Spectrum Analyzer - Element Materials Technology Image: Comparison of the sector of th | | 1 | .559 GHz - 1.61 Gł | Ηz | 1603 | -62.61 | -46 | Pass | | |
| Keysight Spectrum Analyzer - Element Materials Technology OW RL RF S0 Ω DC CORREC SENSE:INT ALIGN OFF OB:40:40 AM avg OH CORREC SENSE:INT Avg Type: RMS Trace Trace Z 3 4 5 0 Trace Trace Z 3 4 5 0 Trace Trace Trace Avg Type: RMS Trace CORREC SENSE:INT Avg Type: RMS Trace | | | | | | | | | | |
| Avg Type: RMS TRACE 12 4 5 6 PNO: Fast → Trig: Free Run Avg Hold: 100/100 Trace 12 3 4 5 6 PNO: Fast → Trig: Free Run Avg Hold: 100/100 Trace 12 3 4 5 6 PNO: Fast → Trig: Free Run Avg Hold: 100/100 Trace 12 3 4 5 6 PNO: Fast → Trig: Free Run Avg Hold: 100/100 Trace 12 4 5 | | Keysight Spectrum Analyze | er - Element Materials Techn | ology | | A U IGN OFF | | 08:40:40 AM Aug 04, 202 | | |
| PNO: Fast Irig: Free Run AvgiHoid: 100/100 PPE ANNNNN IFGain:Low #Atten: 6 dB Mkr1 1.602 997 7 GHz | CA1 | N N | SO IL DO COMEC | | | Avg Type: | RMS | TRACE 1 2 3 4 5 | | |
| Ref Offset 24.4 dB Mkr1 1.602 997 7 GHz | | | | PNO: Fast +++ | #Atten: 6 dB | Avg Hold: 1 | 100/100 | DETANNN | | |
| | | Ref.Offe | et 24.4 dB | | | | Mkr <u>1 1</u> | .602 997 7 <u>GH</u> | | |

| | | PNO: Fast +++ | #Atten: 6 dB | Avginoid. 1 | 00/100 | | DET A NNNNN |
|-----------|--|---------------|--------------|-------------|---------------------------------------|-------------------|---------------------|
| 10 dB/div | Ref Offset 24.4 dB Ref -0.60 dBm | | | | Mkr | 1 1.602 9 -62. | 97 7 GHz 605 dBm |
| | | | Ť | | | | |
| -10.6 | | | | | | | |
| -20.6 | | | | | | | |
| | | | | | | | |
| -30.6 | | | | | | | |
| -40.6 | | | | | | | DI 1 48.00 dBm |
| -50.6 | | | | | | | DE1 -40.00 (D) |
| | | | | | | ▲1 | |
| -60.6 | | | | | · · · · · · · · · · · · · · · · · · · | | |
| -70.6 | | | | | | | |
| -80.6 | | | | | | | |
| | | | | | | | |
| -90.6 | | | | | | | |
| Start 1.5 | 5900 GHz | | | | | Stop 1. | 61000 GHz |
| #Res BW | 1.0 MHz | #VBV | V 3.0 MHz* | | #Sweep | 174.7 ms | (10001 pts) |
| MSG | | | | STATUS | | | |



| F | requency | Measured | Max Value | Limit | Desult |
|---|--------------------------|--|------------------------|---------|------------------------------|
| 4 550 4 | Kange | rreq (MHZ) | (aBm) | < (aBm) | Result |
| 1.559 0 | 5HZ - 1.61 GHZ | 1608.03 | -62.63 | -46 | Pass |
| | | | | | |
| Keysight Spectrum Analyzer - Elem | ent Materials Technology | | | | |
| LXI RL RF 50 Ω | DC CORREC | SENSE:INT | ALIGN AUTO | | 10:29:28 AM Aug 04, 202 |
| | PNO: Fast IFGain:Low | →→ Trig: Free Run #Atten: 6 dB | Avg Type: Avg Hold: | 100/100 | TYPE A WWWW DET A N N N N |
| Ref Offset 24.4 10 dB/div Ref -0.60 dE | dB S m | | | Mkr1 1. | 608 026 3 GH -62.626 dBn |
| | | The second secon | | | |
| | | | | | |
| -10.6 | | | | | |
| | | | | | |
| -20.6 | | | | | |
| | | | | | |
| -30.6 | | | | | |
| | | | | | |
| -40.6 | | | | | |
| | | | | | DL1 -46.00 dB |
| -50.6 | | | | | |
| | | | | | |
| -60.6 | | | | | |
| | | | | | |
| -70.6 | | | | | |
| | | | | | |
| -80.6 | | | | | |
| | | | | | |
| -90.6 | | | | | |
| - 5000 | | | | | |
| | | | | | |
| Start 1.55900 GHz | | | | | Stop 1.61000 GH |



| | Frequency | | Measured | Max Value | Limit | |
|------------------|--------------------------------------|----------------------------|----------------------------------|------------------------|-------------------|---|
| | | | Freq (MHZ) | (dBm) | < (dBm) | Result |
| | 1.559 GHZ - 1.01 G | | 1000.30 | -02.01 | -40 | Pass |
| Keysight Spectra | um Analyzer - Element Materials Tech | inology | | | | |
| LXI RL | RF 50 Ω DC CORREC | | SENSE:INT | ALIGN OFF | | 09:12:17 AM Aug 04, 2022 |
| | | PNO: Fast ++ IFGain:Low | . Trig: Free Run #Atten: 6 dB | Avg Type: Avg Hold: | RMS 100/100 | TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN |
| 10 dB/div | Ref Offset 24.4 dB Ref -0.60 dBm | | | | Mkr1 1. | .606 363 7 GHz -62.610 dBm |
| Log | | | ľ | | | |
| -10.6 | | | | | | |
| | | | | | | |
| -20.6 | | | | | | |
| | | | | | | |
| -30.6 | | | | | | |
| | | | | | | |
| -40.6 | | | | | | DL1 -46.00 dBm |
| -50.6 | | | | | | |
| | | | | | | |
| -60.6 | | | | | | \ |
| | | | | | | |
| -70.6 | | | | | | |
| 90 G | | | | | | |
| | | | | | | |
| -90.6 | | | | | | |
| | | | | | | |
| Start 1.5590 | 00 GHz | I | L | | | Stop 1.61000 GHz |
| #Res BW 1. | 0 MHz | #VB | W 3.0 MHz* | | #Sweep 17 | 4.7 ms (10001 pts) |
| MSG | | | | STATUS | | |
| | | | | | | |
| | Port 2, Band n14, 758 | - 768 Mhz, 5 M | 1Hz Bandwidth, 16C | AM Modulation, I | Viid Channel, 763 | 3 MHz |
| | Range | | Freg (MHz) | (dBm) | < (dBm) | Result |
| | | `U-7 | 1600 55 | 62.67 | -46 | Pass |

| LXI RL | RF 50 9 | DC CORF | REC | SENSE:INT | ALIGN OFF | 09:14:02 AM Aug 04, 2022 |
|--------------------|----------------------------|-----------------------|---------------------------|---------------------------------|-----------------------------------|--|
| | | | PNO: Fast ↔ IFGain:Low | ⊢ Trig: Free Ru #Atten: 6 dB | Avg Type: RM n Avg Hold: 100/1 | S TRACE 1 2 3 4 5 6 100 TYPE A WWWWW DET A N N N N |
| 10 dB/div | Ref Offset 24 Ref -0.60 | 4.4 dB d Bm | | | | Mkr1 1.609 551 2 GHz -62.665 dBm |
| _09 | | | | | | |
| -10.6 | | | | | | |
| -20.6 | | | | | | |
| 20.6 | | | | | | |
| -30.8 | | | | | | |
| -40.6 | | | | | | DL1 -46.00 dBm |
| -50.6 | | | | | | |
| e0.e | | | | | | 1 |
| -60.6 | | | | | | ¥ |
| -70.6 | | | | | | |
| -80.6 | | | | | | |
| 00.0 | | | | | | |
| -90.6 | | | | | | |
| Start 1. <u>55</u> | 900 GHz | | | | | Stop 1.61000 GHz |
| #Res BW | 1.0 MHz | | #VI | BW 3.0 MHz* | | #Sweep 174.7 ms (10001 pts) |
| MSG | | | | | STATUS | |



| Frequ | ency | Measured | Max Value | Limit | Result |
|--|--|--|-----------------------------|-----------------------|--|
| 1.559 GHz - | 1.61 GHz | 1602.61 | -62.55 | -46 | Pass |
| Keysight Spectrum Analyzer - Element Mat RL RF 50 Ω DC | correc | SENSE:INT | ALIGN AUTO | RMS | 09:49:29 AM Aug 04, 2022 |
| | PNO: Fast ++- IFGain:Low | . Trig: Free Run #Atten: 6 dB | Avg Hold: 1 | 100/100 | TYPE A WWWWW DET A N N N N N |
| Ref Offset 24.4 dB 10 dB/div Ref -0.60 dBm | | | | Mkr1 | 1.602 605 0 GHz -62.549 dBm |
| -10.6 | | Ĭ | | | |
| -20.6 | | | | | |
| -30.6 | | | | | |
| -40.6 | | | | | DL1 -46.00 dBm |
| -50.6 | | | | | |
| -60.6 | c la babada a reserva ya nga minata dinika maa | ······································ | | | <u> </u> |
| -70.6 | | | | | |
| -80.6 | | | | | |
| -30.0 | | | | | |
| Start 1.55900 GHz #Res BW 1.0 MHz | #VB | W 3.0 MHz* | | #Sweep | Stop 1.61000 GHz 174.7 ms (10001 pts) |
| MSG | | | STATUS | | |
| Port 2, Band n1 Frequ | 4, 758 - 768 Mhz, 5 Ml ency | Hz Bandwidth, 2560 Measured | AM Modulation, Max Value | Mid Channel, Limit | 763 MHz |
| Ran | ge | Freq (MHz) | (dBm) | < (dBm) | Result |

| 🛄 Keysight Spe | ctrum Analyzer - Element Mate | rials Technology | | | | | |
|------------------------|-------------------------------------|---------------------------|--------------------------------|----------------------------|-------------------------|---------------------|--|
| LXI RL | RF 50 Ω DC | CORREC | SENSE:INT | ALIGN AUTO | | 09:51:24 | AM Aug 04, 2022 |
| | | PNO: Fast ↔ IFGain:Low | Trig: Free Run #Atten: 6 dB | Avg Type: F Avg Hold: 1 | RMS 00/100 | TR T | ACE 1 2 3 4 5 6 YPE A WWWW DET A NNNNN |
| 10 dB/div | Ref Offset 24.4 dB Ref -0.60 dBm | | | | Mkr1 | 1.609 64 -62. | 48 1 GHz 629 dBm |
| - 0g | | | | | | | |
| -10.6 | | | | | | | |
| -20.6 | | | | | | | |
| -30.6 | | | | | | | |
| -40.6 | | | | | | | |
| -50.6 | | | | | | | DL1 -46.00 dBm |
| -50.0 | | | | | | | 1 |
| -60.6 | | | | | | | Y |
| -70.6 | | | | | | | |
| -80.6 | | | | | | | |
| -90.6 | | | | | | | |
| | | | | | | | |
| Start 1.559 #Res BW | 900 GHz 1.0 MHz | #VE | 3W 3.0 MHz* | | #Sweep | Stop 1. 174.7 ms | 61000 GHz (10001 pts) |
| MSG | | | | STATUS | State internet internet | | en en en en en e |



| | Frequenc | y | Measured | Max Value | Limit | Desult | |
|------------------|-------------------------------------|--------------|----------------------------------|------------------------|---------|-----------------------------|------------------|
| | Kange | 4.011- | Fred (MHZ) | (aBm) | < (dBm) | Result | |
| | 1.559 GHZ - 1.6 | 1 GHZ | 1605.34 | -62.59 | -40 | Pass | |
| | | | | | | | |
| Keysight Spectru | um Analyzer - Element Materials | Technology | | | | | x |
| LXI RL | RF 50 Ω DC CO | RREC | SENSE:INT | ALIGN AUTO | | 10:31:19 AM Aug 04, 20 | J22 |
| | | PNO: Fast ++ | . Trig: Free Run #Atten: 6 dB | Avg Type: Avg Hold: | 100/100 | TYPE A WWW DET A NNN | 5 6 ₩₩ N N |
| 10 dB/div | Ref Offset 24.4 dB Ref -0.60 dBm | | | | Mkr1 1 | .605 343 7 GI -62.591 dB | lz m |
| | | | T T | | | | |
| | | | | | | | |
| -10.6 | | | | | | | |
| | | | | | | | |
| -20.6 | | | | | | | |
| | | | | | | | |
| -30.6 | | | | | | | |
| | | | | | | | |
| -40.6 | | | | | | | |
| | | | | | | DL1 -46.00 c | IBm |
| -50.6 | | | | | | | |
| | | | | | | 4 | |
| -60.6 | | | | | | \ ' | |
| | | | | | | | |
| -70.6 | | | | | | | |
| | | | | | | | |
| -80.6 | | | | | | | |
| | | | | | | | |
| -90.6 | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Start 1.5590 | 00 GHz | | | | | Stop 1.61000 GI | ΗZ |



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.

TEST EQUIPMENT

| Description | Manufacturer | Model | ID | Last Cal. | Cal. Due |
|------------------------------|--------------------|--------|-----|------------|------------|
| Block - DC | Fairview Microwave | SD3239 | ANE | 2022-03-02 | 2023-03-02 |
| Generator - Signal | Agilent | N5173B | TIW | 2020-07-17 | 2023-07-17 |
| Analyzer - Spectrum Analyzer | Keysight | N9010A | AFQ | 2022-01-17 | 2023-01-17 |

TEST DESCRIPTION

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 plan 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. These measurements are for the frequency band after the first 100 kHz bands immediately outside and adjacent to the frequency block.

AHLBBA antenna ports 1&4 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 paragraphs 5.2.5.3, 5.7.2i and 6.4. AHLBBA antenna ports 2&3 are essentially electrically identical (the RF power variation between antenna ports is small as shown in this certification testing) and antenna port 2 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraphs 5.2.5.3, 5.7.2i and 6.4.

Per FCC section 27.53(g), RSS 130 4.7, FCC section 90.543(e)(3) and RSS 140 4.4 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. FCC 27.53(g), RSS 130 4.7.1, FCC 90.543(e)(5) and RSS 140 4.4b requires a >100 kHz measurement bandwidth for emissions 100 kHz outside of the RRH operating frequency range. Per section 90.543(f) and RSS 140 4.4, for the frequency range 1559 - 1610 MHz the EIRP limit is -70dBW/MHz for wideband signals and -80dBW for discrete emissions of bandwidths less than 700Hz. This equates to an EIRP of -40dBm/MHz for wideband emissions and -50dBm/MHz for discrete emissions. The limit is adjusted to -46 dBm [-40 dBm -10 log (4)] for wideband signals and -56dBm [-50 dBm -10 log (4)] for discrete emissions 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. (See ANSI C63.26-2015 paragraph 5.7.2a for details on the Limit/RBW scaling method)

Multi-carrier Test Cases:

Test Case 1 (3GPP Band n12 Multicarrier): Three NR 5MHz carriers using two carriers (with minimum spacing between carrier frequencies) at the lower band (731.5MHz & 736.5MHz) and a third carrier with maximum spacing between the other two carrier frequencies (742.5MHz) at the upper band edge. The NR 5MHz channel bandwidth was selected to maximize carrier power spectral density. The carriers are operated at maximum power for a total port power of 80 watts (~26.6W/Band n12 carriers).

Test Case 2 (3GPP Band n12 and Band n14 Multicarrier/Multiband): In the Band n12 _ Two NR 5MHz carriers at the lower band edge (731.5 & 736.5MHz). In Band n14 _ one NR 5MHz carrier at the upper band edge 765.5MHz. The carriers are operated at maximum power for a total port power of 80 watts (~26.6W/Band n12/n14 carriers).



| | | | | | | TbiTx 2022.05.02.0 | XMit 2022.02.07.0 |
|-----------------------|---------------------------|---|---|---------------------------|--------------------|--------------------|-------------------|
| EUT: | AHLBBA (C2PC/C3PC FC | C/ISED) | | | Work Order: | NOKI0047 | |
| Serial Number: | K9193514835 | | | | Date: | 5-Aug-22 | |
| Customer: | Nokia Solutions and Net | NORKS | | | Temperature: | 20.2 °C | |
| Attendees: | None | | | | Humidity: | 01.3% KH | |
| Tested by: | Marty Martin | | Power: 54VDC | | Ioh Sitor | | |
| TEST SPECIFICAT | | | Tost Mothod | | JOD Sile. | 1.007 | |
| ECC 27:2022 | 10113 | | | | | | |
| PCC 27.2022 | 010 and BEE 140 Jacua 1: | 2018 | ANSI C63.20.2015 | | | | |
| R55-130 ISSUE 2: 2 | 2019 and RSS 140 Issue 1: | 2018 | ANSI C63.20:2015 | | | | |
| FCC 90R:2022 | | | ANSI C63.26:2015 | | | | |
| | | | | | | | |
| COMMENTS | | | | | | | |
| All measurement n | ath losses were accounte | d for in the reference level offset including attenuate | ors cables DC block and filter when in use Band n1 | 2 and Band n14 carrier | s were operating a | at maximum nower i | in each |
| annlicable test cas | to achieve a total port n | ower of 80 watte | sis, cables, bo block and litter when in ase. Dana in | L and Band III + carrier. | s were operating t | | in cucii |
| DEVIATIONS FROM | M TEST STANDARD | | | | | | |
| None | TEOTOTAIDAID | | | | | | |
| 110110 | | 22 | | | | | |
| Configuration # | 1, 2, 3 | Martin | Marti | | | | |
| - | | Signature | n'at she | | | | |
| | | | Frequency | Measured | Max Value | Limit | |
| | | | Range | Freq (MHz) | (dBm) | < (dBm) | Result |
| Port 1, 5G NR, Mult | i-Carrier Test Case 1 | | | | | | |
| | Band n12, 729 - 745 Mhz | | | | | | |
| | 5 MHz Bandy | vidth | | | | | |
| | | QPSK Modulation | | | | | |
| | | (731.5, 736.5 and 742.5 MHz) | 9 kHz - 150 kHz | 0.01 | -52.0 | -39 | Pass |
| | | (731.5, 736.5 and 742.5 MHz) | 150 kHz - 20 MHz | 0.16 | -48.9 | -29 | Pass |
| | | (731.5, 736.5 and 742.5 MHz) | 20 MHz - 1.2 GHz | 765 | -37.9 | -19 | Pass |
| | | (731.5, 736.5 and 742.5 MHz) | 1.2 GHz - 8 GHz | 4011.12 | -36.4 | -19 | Pass |
| Port 2, 5G NR, Mult | i-Carrier Test Case 1 | | | | | | |
| | Band n12, 729 - 745 Mhz | | | | | | |
| | 5 MHZ Bandy | | | | | | |
| | | QPSK Modulation | | 0.04 | 50.4 | 20 | Dees |
| | | (731.5, 730.5 and 742.5 MHZ) | 9 KHZ - 150 KHZ | 0.01 | -52.1 | -39 | Pass |
| | | (731.5, 730.5 and 742.5 MHz) | | 0.15 | -48.0 | -29 | Pass |
| | | (731.5, 730.5 and 742.5 MHz) | 20 MHZ - 1.2 GHZ | 4012 49 | -30.4 | -19 | Pass |
| Dort 1 EC ND Mult | i Corrier Test Cose 1 | (731.5, 736.5 and 742.5 MHZ) | 1.2 GHZ - 8 GHZ | 4012.48 | -30.4 | -19 | Pass |
| FULL, SGINK, MULL | Band n12 1550 1610 Mb | 7 | | | | | |
| | 5 MHz Bandu | Z width | | | | | |
| | 5 WHZ BAHO | OPSK Modulation | | | | | |
| | | (731 5 736 5 and 742 5 MHz) | 1 559 GHz - 1 61 GHz | 1608.52 | -62 7 | -46 | Pass |
| Port 2 5G NR Mult | i-Carrier Test Case 1 | (10110, 10010 and 11210 mile) | 1.000 ONE 1.01 ONE | 1000.02 | 02.1 | 10 | 1 400 |
| | Band n12, 1559 - 1610 MH | 17 | | | | | |
| | 5 MHz Bandy | vidth | | | | | |
| | | QPSK Modulation | | | | | |
| | | (731.5, 736.5 and 742.5 MHz) | 1 559 GHz - 1 61 GHz | 1604 86 | -62.6 | -46 | Pass |
| Port 1 5G NR Mult | i-Carrier Test Case 2 | (10110, 10010 and 11210 mile) | 1.000 ONE 1.01 ONE | 1001.00 | 02.0 | 10 | 1 400 |
| ,, mai | Band n12, 729 - 745 Mhz. | Band n14 758 - 768 MHz | | | | | |
| | 5 MHz Bandy | vidth | | | | | |
| | | QPSK Modulation | | | | | |
| | | (731.5, 736.5 and 765.5 MHz) | 9 kHz - 150 kHz | 0.01 | -51.9 | -39 | Pass |
| | | (731.5, 736.5 and 765.5 MHz) | 150 kHz - 20 MHz | 0.15 | -49.6 | -29 | Pass |
| | | (731.5, 736.5 and 765.5 MHz) | 20 MHz - 1.2 GHz | 806 | -41.1 | -19 | Pass |
| | | (731.5, 736.5 and 765.5 MHz) | 1.2 GHz - 8 GHz | 4033.52 | -36.4 | -19 | Pass |
| Port 2, 5G NR, Mult | i-Carrier Test Case 2 | | | | | | |
| | Band n12, 729 - 745 Mhz, | Band n14 758 - 768 MHz | | | | | |
| | 5 MHz Bandy | vidth | | | | | |
| | | QPSK Modulation | | | | | - |
| | | (731.5, 736.5 and 765.5 MHz) | 9 kHz - 150 kHz | 0.01 | -52.2 | -39 | Pass |
| | | (731.5, 736.5 and 765.5 MHz) | 150 kHz - 20 MHz | 0.15 | -49.1 | -29 | Pass |
| | | (731.5, 736.5 and 765.5 MHZ) | 20 MHZ - 1.2 GHZ | 806 | -41.1 | -19 | Pass |
| Dort 1 EC ND 14 1 | i Carrier Test Case 0 | (731.5, 736.5 and 765.5 MHz) | 1.2 GHZ - 8 GHZ | 4014.93 | -36.4 | -19 | Pass |
| FOR 1, 5G NR, Mult | Pand p12, 1550, 1040 MI | 17 | | | | | |
| | Banu 112, 1559 - 1610 MF | 12 vidth | | | | | |
| | S MITZ BAND | OPSK Modulation | | | | | |
| | 1 | (731 5, 736 5 and 765 5 MHz) | 1 550 GHz 1 61 GHz | 1609.67 | -62.7 | -46 | Pace |
| Port 2 5G NR Mult | i-Carrier Test Case 2 | (101.0, 100.0 and 100.0 Wi12) | 1.000 0112 - 1.01 0112 | 1000.07 | -02.1 | -40 | 1 000 |
| 1 0.1 2, 00 MIX, Mult | Band n12 1559 - 1610 MH | 17 | | | | | |
| | 5 MHz Bandy | vidth | | | | | |
| | o mile Sundy | QPSK Modulation | | | | | |
| | | (731.5, 736.5 and 765.5 MHz) | 1.559 GHz - 1.61 GHz | 1607.83 | -62.6 | -46 | Pass |
| | | · · · · · · · · · · · · · · · · · · · | | | | | |





| Port 1, 5G NR, Multi-Carrier Test Case 1, Band n12, (731.5, 736.5 and 742.5 MHz), 5 MHz Bandwidth, QPSK Modulation | | | | | | |
|--|------------|-----------|---------|--------|--|--|
| Frequency | Measured | Max Value | Limit | | | |
| Range | Freq (MHz) | (dBm) | < (dBm) | Result | | |
| 150 kHz - 20 MHz | 0.16 | -48.91 | -29 | Pass | | |

| L | RF | 50 Ω DC | CORREC | | 5 | ENSE:INT | /\A | LIGN OFF | | 07:59:1 | 5 AM Aug 05, 20 |
|-------------|--------------------|-------------------------------|----------------------------------|-------------------------|-----------|--|--|--------------------------|----------------|-----------------------|-------------------------|
| | | | | PNO: Fast IFGain:Low | ••• | Trig: Free Ru #Atten: 16 dE | in 3 | Avg Type: Avg Hold: 1 | RMS 100/100 | TI | TYPE A WWW DET A NNN |
| B/div | Ref Offs Ref 11 | et 27.7 dE . 70 dBm | 3 | | | | | | | Mkr1 ′ -48. | 157.4 kl 910 dB |
| | | | | | | Ť | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | DI 1 -29.00 |
| | | | | | | | | | | | |
| 1 | | | | | | | | | | | |
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| Manager and | | | م و بالحضارة وما مالا المحمد الم | | | | 1 | | | | |
| | | | | | 418473444 | an a | a de la construcción de la constru | Hidoltipetheoric courses | | and the second second | eletterigierter |
| | | | | | | | | | | | |
| rt 150 | kHz | | | | | | | | | Stop 2 | 20.000 M |



| | Range | | Freg (MHz) | (dBm) | < (dBm) | Result | |
|--------------------------|-------------------------------------|-------------------------|--|----------------------------|----------|---------------------------------|---|
| | 20 MHz - 1.2 G | iHz | 765 | -37.91 | -19 | Pass | |
| | trum Analyzer - Element Materials T | echnology | • | • | - | • | X |
| XI RL | RF 50 Ω DC COR | REC | SENSE:INT | ALIGN AUTO | DMC | 06:00:28 AM Aug 06, | 2022 |
| | | PNO: Fast IFGain:Low | → Trig: Free Run #Atten: 20 dB | Avg Hold: | 100/100 | TYPE A WW DET A N N | 456 //////////////////////////////////// |
| 10 dB/div | Ref Offset 41.6 dB Ref 43.60 dBm | | | | N | lkr1 765.00 M -37.913 dl | Hz 3m |
| | | | The second secon | | | | |
| 33.6 | | | | | | | |
| | | | | TT . | | | |
| 23.6 | | | | | | | |
| 13.6 | | | | | | | |
| | | | | | | | |
| 3.60 | | | | | | | |
| -6.40 | | | | | | | |
| 0.40 | | | | | | | |
| -16.4 | | | | | | DL1 -19.0 |) dBm |
| 26.4 | | | | | | | |
| -26.4 | | | | 11. | | | |
| -36.4 | | | | (👷 ' | | | |
| | | | | entertioned Descention and | | | |
| -46.4 | | | | | | | |
| | | | | | | | |
| start 0.020 #Res BW 1 | 0 GHZ | # | VBW 300 kHz* | | #Sweep 1 | Stop 1.2000 G 76.0 ms (30000 | HZ pts) |
| MSG | | | | STATUS | | | |
| Dort 1 C | C ND Multi Corrier Ter | t Casa 1 Barra | n10 /701 E 700 E | | | | 2 |
| PUL 1, 5 | Frequency | Case I, Dano | Measured | Max Value | Limit | , Grok wouldlo | 1 |
| | Range | | Freq (MHz) | (dBm) | < (dBm) | Result | |
| | 1.2 GHz - 8 G | Ηz | 4011.12 | -36.4 | -19 | Pass | |

| Keysight Sp | ectrum Ana | lyzer - Eleme | ent Material | s Technolo | gy | | | | | | | |
|-----------------------|-----------------|----------------------|--------------|------------|------------------------|--------------|--------------------------|-----------|------------------------|----------------|------------------|--|
| LXI RL | RF | 50 Ω | DC C | ORREC | | S | ENSE:INT | | ALIGN AUTO | | 06:14:48 | 3 AM Aug 06, 2022 |
| | | | | l II | PNO: Fast FGain:Low | - - - | Trig: Free #Atten: 22 | Run dB | Avg Type: Avg Hold: | RMS 100/100 | TF | ACE 1 2 3 4 5 6 TYPE A WWWWW DET A NNNNN |
| 10 dB/div | Ref Of Ref 2 | fset 27.6 9.60 dE | dB 3m | | | | | | | | Mkr1 4.0 -36. | 19 0 GHz 391 dBm |
| LUg | | | | | | | | | | | | |
| 19.6 | | | | | | | | | | | | |
| 9.60 | | | | | | | | | | | | |
| -0.40 | | | | | | | | | | | | |
| -10.4 | | | | | | | | | | | | |
| 20.4 | | | | | | | | | | | | DL1 -19.00 dBm |
| -20.4 | | | | | | | | | | | | |
| -30.4 | | | | | | | ∮ ¹ | | | | | |
| -40.4 | | | | | ľ | | \sim | | $\sim\sim$ | | | |
| -50.4 | | | | | | | | | | | | |
| -60.4 | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Start 1.20 #Res BW | 0 GHz 1.0 MH | z | | | # | ¢νвι | N 3.0 MHz | t | | #Sweep | Stop 175.0 ms | 8.000 GHz (15000 p <u>ts)</u> |
| MSG | | | | 12.12 | | | | | STATUS | | | |



| Freque | ncy | Measured | Max Value | Limit | | |
|--|---------------------------------------|---------------------------------|--------------------------|----------------------------|----------------------------------|----------------------------|
| Rang | e | Freq (MHz) | (dBm) | < (dBm) | Result | _ |
| 9 KHZ - 15 | 0 KHZ | 0.01 | -52.11 | -39 | Pass | |
| Keysight Spectrum Analyzer - Element Mate | rials Technology | | | | | P X |
| XX RL RF 50Ω DC | CORREC | SENSE:INT | ALIGN OFF | | 08:29:47 AM Aug 0 | 5, 2022 |
| | PNO: Wide ↔→→ IFGain:Low | Trig: Free Run #Atten: 12 dB | Avg Type: Avg Hold: 1 | RMS 100/100 | TRACE 1 2 TYPE A W DET A N | 3 4 5 6 WWWW N N N N |
| Ref Offset 27.9 dB 10 dB/div Ref 11.90 dBm | | | | | Mkr1 9.123 -52.112 c | kHz IBm |
| | | Ť | | | | |
| 1 90 | | | | | | |
| | | | | | | |
| -8 10 | | | | | | |
| | | | | | | |
| -18.1 | | | | | | |
| | | | | | | |
| -28.1 | | | | | | |
| | | | | | | |
| -38.1 | | | | | DL1 -39 | 1.00 dBm |
| | | | | | | |
| -48.1 1 | | | | | | |
| tran . | | | | | | |
| -58.1 | | A | | | Δ | |
| and the second s | man and a second | | | | | |
| -68.1 | · · · · · · · · · · · · · · · · · · · | human | | Λ | | |
| | | | en manun | how | man lan | 00000 |
| -78.1 | | | | | | |
| | | | | | | |
| Start 9.00 kHz | | k | | | Stop 150.00 | kHz |
| #Res BW 1.0 kHz | #VB | W 3.0 kHz* | | #Sweep | 174.4 ms (8001 | pts) |
| MSG | | | STATUS | in the second state states | 0.000.000.000.000 | 005003 |

| Port 2, 5G NR, Multi-Carrier Test Case 1, Band n12, (731.5, 736.5 and 742.5 MHz), 5 MHz Bandwidth, QPSK Modulation | | | | | | | | |
|--|------------|-----------|---------|--------|--|--|--|--|
| Frequency | Measured | Max Value | Limit | | | | | |
| Range | Freq (MHz) | (dBm) | < (dBm) | Result | | | | |
| 150 kHz - 20 MHz | 0.15 | -48.55 | -29 | Pass | | | | |

| Keysigl | ht Spectrum A | Analyzer - Element I | Materials Technol | ogy | | | | | | |
|---------|----------------------|--|------------------------|--------------|----------------------------|--|-------------|--------------|-------------------|---------------------|
| LXI RL | RF | 50 Ω DC | CORREC | | SENSE:INT | | ALIGN OFF | DMS | 08:32:28 | AM Aug 05, 2022 |
| | | | | PNO: Fast ++ | . Trig: Free #Atten: 16 | Run dB | Avg Hold: 1 | 00/100 | | |
| 10 dB/d | Ref iv Ref | Offset 27.7 dE 11.70 dBm | 3 1 | | | | | | Mkr1 1 -48. | 50.0 kHz 545 dBm |
| | | | | | | Í | | | | |
| 1.70 | | | | | | | | | | |
| -8.30 | | | | | | | | | | |
| -18 3 | | | | | | | | | | |
| 10.0 | | | | | | | | | | |
| -28.3 | | | | | | | | | | DL1-29.00 dBm |
| -38.3 | | | | | | | | | | |
| 10.0 | | | | | | | | | | |
| -40.5 | | | | | | | | | | |
| -58.3 | | | | | | | | | | |
| -68.3 | Marketer at . | | | | at an arthur an a | | | | | |
| 78.2 | | an a | | | 1 | a familie and a familie a surface of the | | | | |
| 10.0 | | | | | | | | | | |
| Start 1 | 50 kHz | 1 | L | | I, | <u>.</u> | <u> </u> | | Stop 2 | 0.000 MHz |
| #Res E | 3W 10 k | Hz | | #VE | W 30 kHz* | | | #Swee | o 174.4 ms | s (8001 pts) |
| MSG | ingenie field | and the states of the | a for the state of the | | weeks of the operation of | and the second second | STATUS | 62028.202003 | 0.000.000.000.000 | 0.020000000000000 |



| | Range | Freg (MHz) | (dBm) | < (dBm) | Result |
|---------------------------------|--------------------------------|--|-----------------|---------------|---|
| | 20 MHz - 1.2 GHz | 765 | -30.41 | -19 | Pass |
| | | | | | |
| Keysight Spectrum Analyzer | - Element Materials Technology | | | | |
| LXI RL RF | 50 Ω DC CORREC | SENSE:INT | ALIGN AUTO | RMS | 06:24:22 AM Aug 06, 2022 TRACE 1 2 3 4 5 |
| | PNO: Fa IFGain:Le | st ↔ Trig: Free Run ow #Atten: 20 dB | Avg Hold: | 100/100 | |
| Ref Offse 10 dB/div Ref 43.6 | t 41.6 dB 60 dBm | | | Mł | r1 765.00 MHz -30.405 dBm |
| Log | | The second secon | | | |
| | | | | | |
| 33.6 | | | | | |
| 23.6 | | | | | |
| | | | | | |
| 13.6 | | | | | |
| | | | | | |
| 3.60 | | | | | |
| | | | | | |
| -6.40 | | | | | |
| | | | | | |
| -16.4 | | | | | DL1 -19.00 dBn |
| -26.4 | | | 1 | | |
| | | | | | |
| -36.4 | | | | | |
| | | | | | |
| -46.4 | | | | | |
| | | | | | |
| Start 0.0200 GHz | | | | | Stop 1.2000 GHz |
| #Res BW 100 kHz | | #VBW 300 kHz* | | #Sweep 17 | 6.0 ms (30000 pts |
| MSG | | | STATUS | | |
| Port 2 5G NR M | ulti-Carrier Test Case 1 B | and n12 (731 5 736 5 an | nd 742 5 MHz) 5 | MHz Bandwidth | OPSK Modulation |
| | Frequency | Measured | Max Value | Limit | |
| | Range | Freq (MHz) | (dBm) | < (dBm) | Result |
| | 1.2 GHz - 8 GHz | 4012.48 | -36.4 | -19 | Pass |
| | | | | | |

| LXI RL RF | 50 Ω DC CORRE | iC | SENSE:INT | ALIGN AUTO | | 06:20:15 AM Aug 06, 2022 |
|-----------------------------------|-------------------------|---------------------------|----------------------------|--------------------------|--------------------------|--|
| | | PNO: Fast ↔ IFGain:Low | Trig: Free #Atten: 22 | Avg 1 Run Avg H dB | ype: RMS old: 100/100 | TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A NNNNN |
| Ref Off 10 dB/div Ref 29 | set 27.6 dB 9.60 dBm | | | | | Mkr1 4.037 1 GHz -36.394 dBm |
| 10.0 | | | | | | |
| 19.6 | | | | | | |
| 9.60 | | | | | | |
| -0.40 | | | | | | |
| -10.4 | | | | | | DL1 -19.00 dBm |
| -20.4 | | | | | | |
| -30.4 | | | • ¹ | | | |
| -40.4 | | | | | \sim | |
| -50.4 | | | | | | |
| -60.4 | | | | | | |
| Start 1.200 GHz #Res BW 1.0 MH | 7 | #V | BW/30MHz | , | #Sween | Stop 8.000 GHz |
| MSG | | | | STAT | IS | (10000 (100) |



| 1.559 GHz - 1.61 GHz 1608.52 -62.66 -46 Pass Keysight Spectrum Analyzer - Element Materials Technology 08:18:40 AM Augo 08:18:40 AM Augo Keysight Spectrum Analyzer - Element Materials Technology 08:18:40 AM Augo 08:18:40 AM Augo Keysight Spectrum Analyzer - Element Materials Technology 08:18:40 AM Augo Avg Type: RMS TRACE PNO: Fast → Trig: Free Run IFGain:Low Avg Type: RMS True Fast True Fast 0 dB/div Ref Offset 24.4 dB 04:100 ffset 24.4 dB 04:100 ffset 24.4 dB 04:100 ffset 24.4 dB 10 dB/div Ref - 0.60 dBm -62.657 c -62.657 c -00.6 -0.6 -0.6 -0.6 -0.6 |
|---|
| Keysight Spectrum Analyzer - Element Materials Technology Image: Constraint of the sector of th |
| Ref Offset 224.4 dB Mkr1 1.608 521 0 0 dB/div Ref -0.60 dBm 0.6 -62.657 c 0.6 - |
| Ref Offset 24.4 dB Mkr1 1.608 521 0 (-62.657 c 106 |
| |
| |
| 30.6 |
| |
| 40.6 |
| |
| |
| |
| -90.6 |
| |



| Range | | Measured Freq (MHz) | Max value (dBm) | < (dBm) | Result |
|---|----------------------------|--------------------------------|--------------------|---------|---|
| 1.559 GHz - 1.61 | GHz | 1604.86 | -62.62 | -46 | Pass |
| , Keysight Spectrum Analyzer - Element Materials Te RL RF 50 Ω DC CORR | ihnology EC SE | NSE:INT | ALIGN OFF | RMS | 08:22:56 AM Aug 05, 2022 TRACE 1 2 3 4 5 |
| | PNO: Fast ↔→ IFGain:Low | Trig: Free Run #Atten: 6 dB | Avg Hold: | 100/100 | TYPE A WWWWW DET A NNNN |
| Ref Offset 24.4 dB 10 dB/div Ref -0.60 dBm | | | | Mkr1 1 | .604 864 3 GHz -62.618 dBm |
| -10.6 | | | | | |
| -20.6 | | | | | |
| -30.6 | | | | | |
| -40.6 | | | | | DL1 -46.00 dBn |
| -50.6 | | | | | 1 |
| 70.6 | | | | | |
| -80.6 | | | | | |
| -90.6 | | | | | |
| | | | | | |



| Frequency | Me | asured Max Va | lue Limit | |
|--|--|--|---------------|---|
| Range | Fre | q (MHz) (dBm | n) < (dBm) | Result |
| 9 kHz - 150 k | Hz | 0.01 -51.86 | 6 -39 | Pass |
| | | | | |
| Keysight Spectrum Analyzer - Element Materials | echnology | | | |
| RL RF 50Ω DC CO | REC SENSE:INT | ALIGN AUT | TO RMS | 03:56:19 AM Aug 06, 20 TRACE 1 2 3 4 |
| | PNO: Wide +++ Trig: F IFGain:Low #Atten | ree Run Avg : 12 dB | Hold: 100/100 | TYPE A WWW DET A N N N |
| Ref Offset 27.9 dB 10 dB/div Ref 11.90 dBm | | | I | Mkr1 9.881 kH -51.855 dBı |
| | | T T | | |
| 1 90 | | | | |
| | | | | |
| -8 10 | | | | |
| | | | | |
| -18.1 | | | | |
| | | | | |
| -28.1 | | | | |
| | | | | |
| -38.1 | | | | DL1 ~39.00 df |
| | | | | |
| -48.1 | | | | |
| man and a | Δ | | | ٨ |
| -58.1 | | | | |
| | monter | | Λ | |
| -00.1 | | and a second and the second se | month human | man hana |
| -78.1 | | | | |
| | | | | |
| Start 9.00 kHz | | | | Stop 150.00 kH |
| #Res BW 1.0 kHz | #VBW 3.0 k | Hz* | #Sweep 1 | 74.4 ms (8001 pt |

| Port 1, 5G NR, Multi-Carrier Test Case 2, Band n12 and | 3and n14 (731.5, 7 | 36.5 and 765.5 N | IHz), 5 MHz Band | dwidth, QPSK Moo |
|--|--------------------|------------------|------------------|------------------|
| Frequency | Measured | Max Value | Limit | |
| Range | Freq (MHz) | (dBm) | < (dBm) | Result |
| 150 kHz - 20 MHz | 0.15 | -49.64 | -29 | Pass |

| RL | RF | 50 Ω DC | CORREC | | SENSE:INT | | ALIGN AUTO | | 03:58: | 09 AM Aug 06, 20 |
|------------|------------------|---------------------------------|---------------------|---------------------------|--------------------------|----------------|---|-------------------------------|-------------|--------------------------|
| | | | | PNO: Fast ↔ IFGain:Low | Trig: Fre #Atten: 1 | e Run 6 dB | Avg Type: Avg Hold: | RMS 100/100 | 1 | TYPE A WWWA DET A NNN |
| IB/div | Ref Off Ref 1 | set 27.7 dE 1 .70 dBm | 3 | | _ | | | | Mkr1 -49 | 155.0 kH .635 dB |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | DI129.00 |
| 1 | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Vir Virgen | | the lands again | afathanna Afardanan | uharian pangaharan dara | h laren leiner harringen | ahaan ku dabaa | and the second secon | in an an attended and a state | | the superior substances |
| | | | | | | | | | | |
| rt 150 | | | | | | | | | Stop | 20.000-14 |
| s BW | 10 kHz | | | #V | BW 30 kHz | * | | #Swe | en 174.4 m | 20.000 IVI |



| I | Frequency | Measured | Max Value | Limit | Popult |
|---|--|---------------------------------|------------------------|----------------|---|
| 20 1 | | 806 | (UBIII) -41.07 | < (uBill) | Pass |
| 201 | | 000 | -11.07 | -15 | 1 433 |
| Keysight Spectrum Analyzer - Eler | nent Materials Technology DC CORREC | SENSE:INT | ALIGN AUTO | | 04:11:35 AM Aug 06, 2022 |
| | PNO: Fast IFGain:Low | Trig: Free Run #Atten: 20 dB | Avg Type: Avg Hold: | RMS 100/100 | TRACE 1 2 3 4 5 0 TYPE A WWWW DET A N N N N |
| Ref Offset 41. 10 dB/div Ref 43.60 d | 6 dB IBm | | | | Mkr1 806.00 MHz -41.071 dBm |
| Log | | | | | |
| 33.6 | | | | | |
| 23.6 | | | | | |
| 10.0 | | | | | |
| 13.6 | | | | | |
| 3.60 | | | | | |
| -6.40 | | | | | |
| -16.4 | | | | | DI 4, 40,00 4Ees |
| | | | | | DET -15.00 dBm |
| -26.4 | | | | | |
| -36.4 | | | | | |
| -46.4 | | | | | |
| | | | | | |
| Start 0.0200 GHz #Res BW 100 kHz | # | /BW 300 kHz* | | #Sweep | Stop 1.2000 GHz 176.0 ms (3000 <u>0 pts</u> |
| MSG | | | STATUS | | |

| Port 1, 5 | Port 1, 5G NR, Multi-Carrier Test Case 2, Band n12 and Band n14 (731.5, 736.5 and 765.5 MHz), 5 MHz Bandwidth, QPSK Modulation | | | | | | |
|-----------|--|------------|-----------|---------|--------|--|--|
| | Frequency | Measured | Max Value | Limit | | | |
| | Range | Freq (MHz) | (dBm) | < (dBm) | Result | | |
| ĺ | 1.2 GHz - 8 GHz | 4033.52 | -36.36 | -19 | Pass | | |

| Keysight Spe | ctrum Analyzer - E | lement Materials | Technology | | | | | | | |
|--------------|---------------------------|------------------|-----------------------|------------|------------------------------|--------------------|-------------|---------|------------------|--|
| KL | RF 50 | Ω DC CO | RREC | SEN | ISE:INT] | ALIG | | RMS | 04:31:36 TR | AM Aug 06, 2022 ACE 1 2 3 4 5 6 |
| | _ | | PNO: Fas IFGain:Lo | at ⊶⊶ w | Trig: Free R #Atten: 22 d | lun IB | Avg Hold: 1 | 100/100 | | |
| 10 dB/div | Ref Offset 2 Ref 29.60 | 7.6 dB dBm | | | | | | | Mkr1 4.0 -36. | 33 5 GHz 355 dBm |
| | | | | | Ĭ | | | | | |
| 19.6 | | | | | | | | | | |
| 9.60 | | | | | | | | | | |
| -0.40 | | | | | | | | | | |
| | | | | | | | | | | |
| -10.4 | | | | | | | | | | |
| -20.4 | | | | | | | | | | DL1 -19.00 dBm |
| | | | | | | | | | | |
| -30.4 | | | | | 1 | | | | | |
| -40.4 | | v | | | \sim | | \sim | | \sim | ~~~ |
| -50.4 | | | | | | | | | | |
| | | | | | | | | | | |
| -60.4 | | | | | | | | | | |
| Start 1.20 | 0 GHz | | | | | | | | Stop | 8.000 GHz |
| #Res BW | 1.0 MHz | | | #VBW | 3.0 MHz* | | | #Sweep | 175.0 ms | (15000 pts) |
| MSG | | land a start for | Constants at the | | 100 KA10 KA10 | en den de la final | STATUS | | | and the second |



| Freq | uency | Measured | Max Value | Limit | |
|---|-------------------------|---------------------------------|---|----------|----------------------------|
| Ra | nge | Freq (MHz) | (dBm) | < (dBm) | Result |
| 9 kHz - | 150 kHz | 0.01 | -52.22 | -39 | Pass |
| | | | | | |
| Keysight Spectrum Analyzer - Element M | laterials Technology | | | | - F |
| 🗶 RL RF 50Ω DC | CORREC | SENSE:INT | ALIGN AUTO | DMS | 05:02:53 AM Aug 06, 2 |
| | PNO: Wide IFGain:Low | Trig: Free Run #Atten: 12 dB | Avg Hold: | 100/100 | |
| Ref Offset 27.9 dB 10 dB/div Ref 11.90 dBm | | | | | Mkr1 9.758 k -52.221 dE |
| | | Y Y | | | |
| 1 90 | | | | | |
| 1.00 | | | | | |
| -8.10 | | | | | |
| -0.10 | | | | | |
| 10.1 | | | | | |
| -10.1 | | | | | |
| -28.1 | | | | | |
| 200.1 | | | | | |
| -38.1 | | | | | DL1 -39.00 |
| | | | | | |
| -48.1 1 | | | | | |
| | | | | | |
| -58.1 | | Δ | | | Λ |
| - manan | Martine and | | | | |
| -68.1 | | and human | | Δ | |
| | | | Marine Ma | mum | mond him |
| -78.1 | | | | | |
| | | | | | |
| Start 9.00 kHz | | A | | | Stop 150.00 k |
| #Res BW 1.0 kHz | # | VBW 3.0 kHz* | | #Sweep 1 | 74.4 ms (8001 p |

| Port 2, | 5G NR, Multi-Carrier Test Case 2, Band n12 and E | 3and n14 (731.5, 7 | 36.5 and 765.5 M | Hz), 5 MHz Band | dwidth, QPSK Mo | lulati |
|---------|--|--------------------|------------------|-----------------|-----------------|--------|
| | Frequency | Measured | Max Value | Limit | | |
| | Range | Freq (MHz) | (dBm) | < (dBm) | Result | |
| | 150 kHz - 20 MHz | 0.15 | -49.12 | -29 | Pass | |

| Keysight Spectrum Analyzer - Element Ma | terials Technology | L ana and L | | |
|--|---|--|--|---|
| κι κ- 50Ω DC | PNO: Fast IFGain:Low | Trig: Free Run #Atten: 16 dB | ALIGN AUTO Avg Type: RMS Avg Hold: 100/100 | US:US:26 AM AUG U6, 20 TRACE 1 2 3 4 5 TYPE A WWWW DET A NNN |
| Ref Offset 27.7 dB dB/div Ref 11.70 dBm | | | | Mkr1 150.0 k⊦ -49.115 dBi |
| 2 | | Ĭ | | |
| /0 | | | | |
| 0 | | | | |
| 3 | | | | |
| 3 | | | | DL1-29.00 |
| 3 | | | | |
| 1 | | | | |
| | | | | |
| Martine Contraction | | | | |
| | and the state of the second | Martin and Welton a party large party has a second | aflange tu name inter troch begyet bezendelet en ogen et bistor andjer god | a bert sig tangangan tinggan pilan taganlap tana aptinansi menjat |
| 3 | | | | |
| rt 150 kHz es BW 10 kHz | #1 | VBW 30 kHz* | #Swe | Stop 20.000 M |
| | | | STATUS | |



| Frequ | ency | Measured | Max Value | Limit | |
|---|---------------------------|---------------------------------|------------|-----------|-----------------------------|
| Rar | ige | Freq (MHz) | (dBm) | < (dBm) | Result |
| 20 MHz - | 1.2 GHz | 806 | -41.06 | -19 | Pass |
| | | | | | |
| Keysight Spectrum Analyzer - Element Ma | terials Technology | | | | |
| X RL RF 50Ω DC | CORREC | SENSE:INT | ALIGN AUTO | DMC | 05:10:56 AM Aug 06, 2 |
| | PNO: Fast ↔ IFGain:Low | Trig: Free Run #Atten: 20 dB | Avg Hold: | 100/100 | TYPE A WWW DET A NNN |
| Ref Offset 41.6 dB 10 dB/div Ref 43.60 dBm | | | | М | kr1 806.00 MI -41.060 dB |
| | | Y | | | |
| | | | | | |
| 55.0 | | | | | |
| 22.6 | | | | | |
| 23.0 | | | | | |
| 13.6 | | | | | |
| 13.6 | | | | | |
| 2 60 | | | | | |
| 3.00 | | | | | |
| 6.40 | | | | | |
| 0.40 | | | | | |
| -16.4 | | | | | |
| | | | | | DL1 -19.00 |
| -26.4 | | | | | |
| | | | | | |
| -36.4 | | | 1 - | | |
| | | | | | |
| -46.4 | | | | | |
| | | | | | |
| Start 0.0200 GHz #Res BW(100 kHz | | BIA(300 kHz* | | #Sween_17 | Stop 1.2000 G |
| | <i></i> | 514-500-R112 | | "oweep II | |

| Port 2, | 5G NR, Multi-Carrier Test Case 2, Band n12 and E | and n14 (731.5, 7 | 36.5 and 765.5 M | Hz), 5 MHz Band | width, QPSK Mo | dulation |
|---------|--|-------------------|------------------|-----------------|----------------|----------|
| | Frequency | Measured | Max Value | Limit | | |
| | Range | Freq (MHz) | (dBm) | < (dBm) | Result | |
| | 1.2 GHz - 8 GHz | 4014.93 | -36.4 | -19 | Pass | |

| Keysight Sp | ectrum Analyzer - Element Materials T | echnology | and a state of the | | | | - # <mark>-</mark> X |
|-----------------------|---------------------------------------|-----------------------------|---------------------------------|--|----------------|---------------------|---|
| CXI RL | RF 50 Ω DC COR | PNO: Fast ++- IFGain:Low | Trig: Free Run #Atten: 22 dB | ALIGN AUTO Avg Type: F Avg Hold: 1 | RM S 00/100 | 05:20:13 TR T | AM Aug 06, 2022 ACE 1 2 3 4 5 6 YPE A WWWW DET A N N N N N |
| 10 dB/div | Ref Offset 27.6 dB Ref 29.60 dBm | | | | | Mkr1 4.0 -36.3 | 14 9 GHz 395 dBm |
| 19.6 | | | Ĭ | | | | |
| 9.60 | | | | | | | |
| -0.40 | | | | | | | |
| -10.4 | | | | | | | |
| -20.4 | | | | | | | DL1 -19.00 dBm |
| -30.4 | | | ∳ ¹ | | | | |
| -40.4 | | | | ~~~~ | ~~~ | \sim | \sim |
| -50.4 | | | | | | | |
| -60.4 | | | | | | | |
| Start 1.20 #Res BW | 00 GHz 1.0 MHz | #VB | W 3.0 MHz* | | #Sweep | Stop 175.0 ms (| 8.000 GHz 15000 pts) |
| MSG | | | | STATUS | | | |



| Freq Ra | uency nge | Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result |
|---|---------------------|---|-----------------------|------------------|----------------------------------|
| 1.559 GHz | - 1.61 GHz | 1608.67 | -62.65 | -46 | Pass |
| | | | | | |
| Keysight Spectrum Analyzer - Element M | aterials Technology | CENCEMNT | | | |
| | EURICE PNO: East | Trig: Free Run | Avg Type: AvgHold: | RMS 100/100 | TRACE 1 2 3 4 5 6 TYPE A WWWW |
| | IFGain:Low | #Atten: 6 dB | | | DET A N N N N N |
| Ref Offset 24.4 dB 10 dB/div Ref -0.60 dBm | | | | Mkr1 1 | .608 668 9 GHz -62.649 dBm |
| | | The second se | | | |
| -10.6 | | | | | |
| | | | | | |
| -20.6 | | | | | |
| | | | | | |
| -30.6 | | | | | |
| -40.6 | | | | | |
| | | | | | DL1 -46.00 dBm |
| -50.6 | | | | | |
| | | | | | 1 |
| -60.6 | | | | | _ |
| -70.6 | | | | | |
| | | | | | |
| -80.6 | | | | | |
| | | | | | |
| -90.6 | | | | | |
| | | | | | |
| Start 1.55900 GHz | | | | | Stop 1.61000 GHz |



| F | requency Range | Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | |
|-----------------------------------|--------------------------|--|--------------------|------------------|--------------------------|---|
| 1.559 (| GHz - 1.61 GHz | 1607.83 | -62.59 | -46 | Pass | |
| | | | | | | _ |
| Keysight Spectrum Analyzer - Elem | ent Materials Technology | CENCE-INT | | | 05:25:21 AM Aug 06, 2022 | |
| W NC 10 50 22 | DC CONNEC | Teles Free Due | Avg Type: | RMS | TRACE 1 2 3 4 5 6 | |
| | PNO: Fast IFGain:Low | #Atten: 6 dB | Avg Hold: | 100/100 | DETANNNN | |
| Ref Offset 24.4 | ldB | | | Mkr1 1 | .607 827 4 GHz | |
| 10 dB/div Ref -0.60 dE | 3m | | | | -62.587 dBm | |
| | | The second secon | | | | |
| -10.6 | | | | | | |
| | | | | | | |
| -20.6 | | | | | | |
| 20.0 | | | | | | |
| -30.6 | | | | | | |
| -40.6 | | | | | | |
| | | | | | DL1 -46.00 dBm | |
| -50.6 | | | | | | |
| | | | | | 1 | |
| -6U.b | | | | | | |
| -70.6 | | | | | | |
| | | | | | | |
| -80.6 | | | | | | |
| | | | | | | |
| -90.6 | | | | | | |
| | | | | | | |
| Start 1.55900 GHz | | | | | Stop 1.61000 GHz | |



End of Test Report