



FCC RF Test Report

APPLICANT : OnePlus Technology (Shenzhen) Co., Ltd
EQUIPMENT : Smart Phone
BRAND NAME : ONEPLUS
MODEL NAME : IN2025
FCC ID : 2ABZ2-EE007
STANDARD : 47 CFR Part 2, 24, 27
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Nov. 20, 2019 and completely tested on Mar. 09, 2020. We, Sporton International (ShenZhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (ShenZhen) Inc., the test report shall not be reproduced except in full.

Reviewed by: Derreck Chen / Supervisor

Approved by: Eric Shih / Manager



Sporton International (ShenZhen) Inc.

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People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG9N2009-01E	Rev. 01	Initial issue of report	Mar. 19, 2020



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
-	§2.1046	Conducted Output Power	Reporting Only	PASS	1
	§27.50(b)(10) §27.50(c)(10)	Effective Radiated Power (Band 12) (Band 13)	ERP < 3 Watt	PASS	1
	§24.232(c)	Equivalent Isotropic Radiated Power (Band 2)	EIRP < 2Watt	PASS	1
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 66)	EIRP < 1Watt	PASS	1
-	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	1
-	§2.1049	Occupied Bandwidth	Reporting Only	PASS	1
3.4	§2.1051 §24.238(a) §27.53(c)(2)(4) §27.53(g) §27.53(h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 12) (Band 13) (Band 66)	< 43+10log ₁₀ (P[Watts])	PASS	-
-	§2.1051 §24.238(a) §27.53(c)(2) §27.53(g) §27.53(h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 12) (Band 13) (Band 66)	< 43+10log ₁₀ (P[Watts])	PASS	1
-	§2.1055 §24.235 §27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	1
4.4	§2.1053 §24.238(a) §27.53(c)(2) §27.53(f) §27.53(g) §27.53(h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 12) (Band 13) (Band 66)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 39.41 dB at 2332.500 MHz

Remark 1 :

The test items of inter band CA were cover by LTE single carrier due to the CA power is reduced according to 3GPP MPR.

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



1 General Description

1.1 Applicant

OnePlus Technology (Shenzhen) Co., Ltd

18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen

1.2 Manufacturer

OnePlus Technology (Shenzhen) Co., Ltd

18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Smart Phone
Brand Name	ONEPLUS
Model Name	IN2025
FCC ID	2ABZ2-EE007
EUT supports Radios application	CDMA/GSM/WCDMA/LTE/5G NR WLAN 2.4GHz 802.11b/g/n HT20 WLAN 2.4GHz 802.11ax HE20/HE40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 WLAN 5GHz 802.11ax HE20/HE40/HE80 Bluetooth BR/EDR/LE GNSS/NFC/WPC
IMEI Code	Conducted : N/A Radiation : 865422040025090/865422040025082
HW Version	15
SW Version	Oxygen OS 10.5.IN11AA
EUT Stage	Production Unit



1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 2 : 1852.5 MHz ~ 1907.5 MHz LTE Band 4 : 1712.5 MHz ~ 1752.5 MHz LTE Band 12 : 701.5 MHz ~ 713.5 MHz LTE Band 13 : 779.5 MHz ~ 784.5 MHz LTE Band 66 : 17102.5 MHz ~ 1777.5 MHz
Rx Frequency	LTE Band 2 : 1932.5 MHz ~ 1987.5 MHz LTE Band 4 : 2112.5 MHz ~ 2152.5 MHz LTE Band 12 : 730.5 MHz ~ 743.5 MHz LTE Band 13 : 748.5 MHz ~ 753.5 MHz LTE Band 66 : 2112.5 MHz~ 2197.5 MHz
Bandwidth	LTE Band 2 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 4 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 12 : 5MHz / 10MHz LTE Band 13 : 5MHz / 10MHz LTE Band 66 : 5MHz / 10MHz / 15MHz / 20MHz
Uplink CA Bands	2A-12A, 2A-13A, 4A-12A, 4A-13A, 12A-66A, 13A-66A
Antenna Gain	Top Antenna: LTE Band 2 : -2.00 dBi LTE Band 4 : -2.00 dBi LTE Band 12 : -3.00 dBi LTE Band 13 : -3.00 dBi LTE Band 66 : -2.00 dBi Bottom Antenna: LTE Band 2 : -2.00 dBi LTE Band 4 : -2.00 dBi LTE Band 12 : -2.00 dBi LTE Band 13 : -2.00 dBi LTE Band 66 : -2.00 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM

1.5 Modification of EUT

No modifications are made to the EUT during all test items.



1.6 Testing Location

Sporton International (Shenzhen) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International (Shenzhen) Inc.		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-SZ	CN1256	421272

Test Firm	Sporton International (Shenzhen) Inc.		
Test Site Location	No. 3 Bldg the third floor of south, Shahe River west, Fengzeyuan Warehouse, Nanshan Shenzhen, 518055 People's Republic of China TEL: +86-755-33202398		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH04-SZ	CN1256	421272

1.7 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH04-SZ	AUDIX	E3	6.2009-8-24

1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 2, 24, 27
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

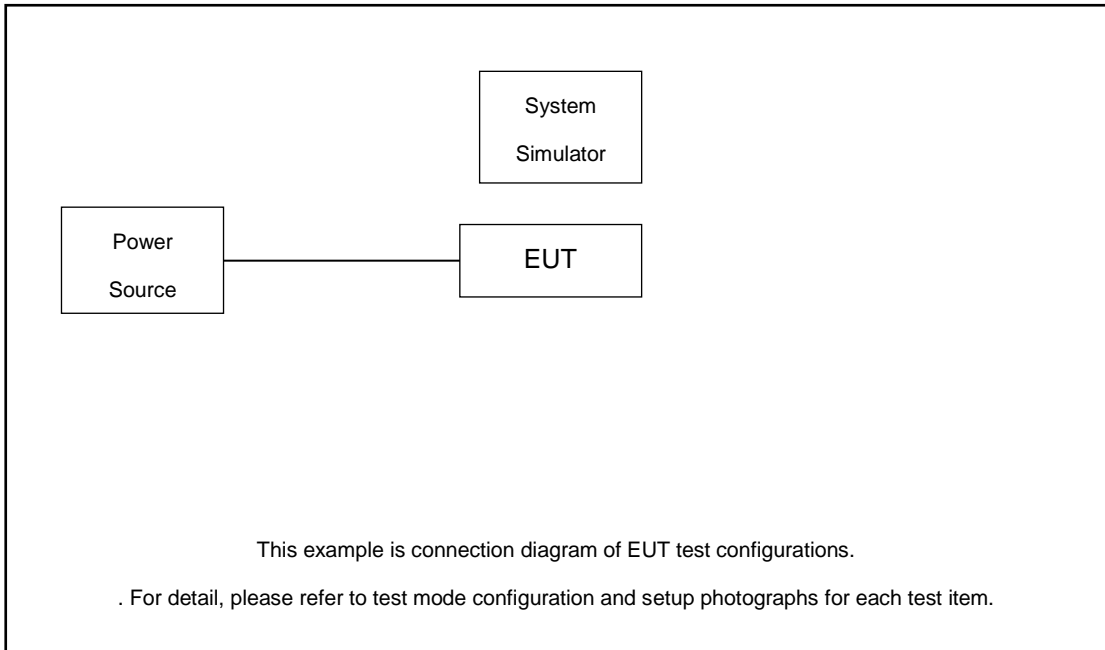
2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Test Items	Band	Bandwidth (MHz)					Modulation			RB #			Test Channel		
		-	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Conducted Band Edge	2A-12A	PCC(2A)	v	v	v	v	v	v	v	v		v	v		v
		SCC(12A)	v	v	-	-	v	v	v	v		v	v		v
	2A-13A	PCC(2A)	v	v	v	v	v	v	v	v		v	v		v
		SCC(13A)	v	v	-	-	v	v	v	v		v	v		v
	4A-12A	PCC(4A)	v	v	v	v	v	v	v	v		v	v		v
		SCC(12A)	v	v	-	-	v	v	v	v		v	v		v
	4A-13A	PCC(4A)	v	v	v	v	v	v	v	v		v	v		v
		SCC(13A)	v	v	-	-	v	v	v	v		v	v		v
	12A-66A	PCC(12A)	v	v	-	-	v	v	v	v		v	v		v
		SCC(66A)	v	v	v	v	v	v	v	v		v	v		v
	13A-66A	PCC(13A)	v	v	-	-	v	v	v	v		v	v		v
		SCC(66A)	v	v	v	v	v	v	v	v		v	v		v
Radiated Spurious Emission	2A-12A	Worst Case											v	v	v
	2A-13A	Worst Case											v	v	v
	4A-12A	Worst Case											v	v	v
	4A-13A	Worst Case											v	v	v
	12A-66A	Worst Case											v	v	v
	13A-66A	Worst Case											v	v	v
Note	1. The mark "v" means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.														

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

$$\text{Offset} = \text{RF cable loss} + \text{attenuator factor}.$$

Following shows an offset computation example with cable loss 8 dB and 10dB attenuator.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 8 + 10 = 18 \text{ (dB)} \end{aligned}$$



2.5 Frequency List of Low/Middle/High Channels

LTE Band 2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	18700	18900	19100
	Frequency	1860	1880	1900
15	Channel	18675	18900	19125
	Frequency	1857.5	1880	1902.5
10	Channel	18650	18900	19150
	Frequency	1855	1880	1905
5	Channel	18625	18900	19175
	Frequency	1852.5	1880	1907.5

LTE Band 4 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20050	20175	20300
	Frequency	1720	1732.5	1745
15	Channel	20025	20175	20325
	Frequency	1717.5	1732.5	1747.5
10	Channel	20000	20175	20350
	Frequency	1715	1732.5	1750
5	Channel	19975	20175	20375
	Frequency	1712.5	1732.5	1752.5

LTE Band 12 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23060	23095	23130
	Frequency	704	707.5	711
5	Channel	23035	23095	23155
	Frequency	701.5	707.5	713.5



LTE Band 13 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	-	23230	-
	Frequency	-	782	-
5	Channel	23205	23230	23255
	Frequency	779.5	782	784.5

LTE Band 66 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	132072	132322	132572
	Frequency	1720	1745	1770
15	Channel	132047	132322	132597
	Frequency	1717.5	1745	1772.5
10	Channel	132022	132322	132622
	Frequency	1715	1745	1775
5	Channel	131997	132322	132647
	Frequency	1712.5	1745	1777.5

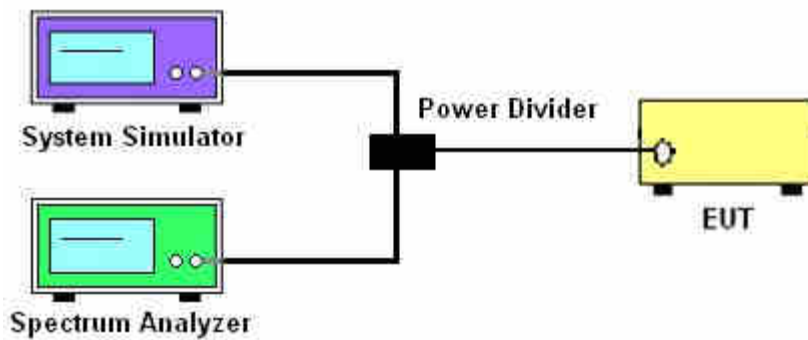
3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.2 Test Setup

3.2.1 Conducted Band-Edge



3.3 Test Result of Conducted Test

Please refer to Appendix A.



3.4 Conducted Band Edge

3.4.1 Description of Conducted Band Edge Measurement

24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53 (c)

For operations in the 776-788 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed. In addition, the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least $65 + 10 \log_{10} p(\text{watts})$, dB, for mobile and portable equipment.

27.53 (g)

For operations in the 600MHz band and 698 -746 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

27.53 (h)

For operations in the 1710 – 1755 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.



3.4.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW \geq 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.

Example:

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
= P(W)- [43 + 10log(P)] (dB)
= [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm.

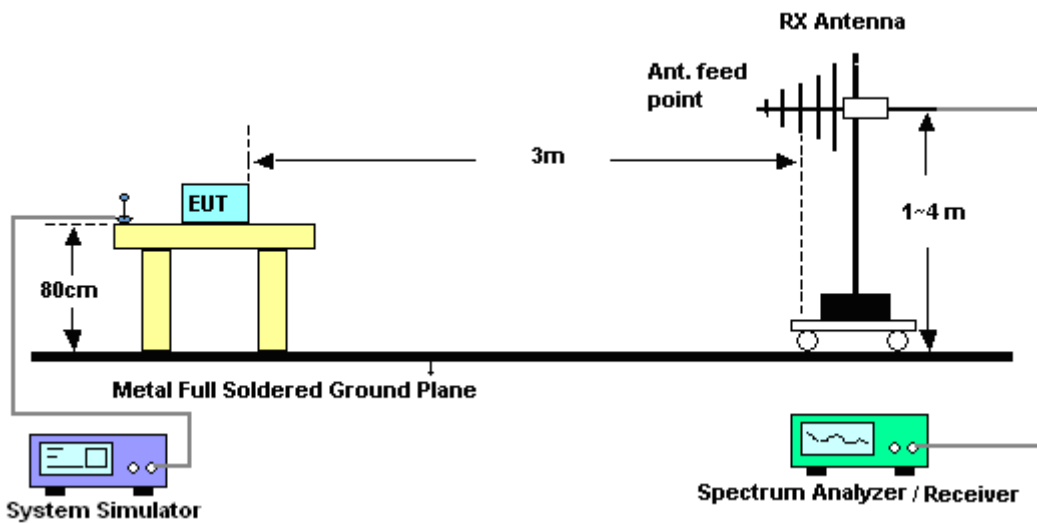
4 Radiated Test Items

4.1 Measuring Instruments

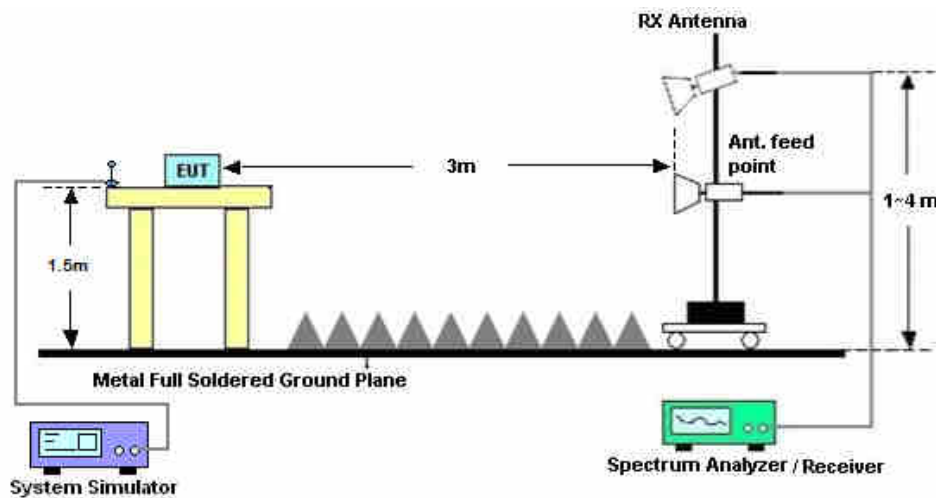
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test from 30MHz to 1GHz



4.2.2 For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.



4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For LTE Band 13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. $EIRP (dBm) = S.G. Power - Tx Cable Loss + Tx Antenna Gain$
11. $ERP (dBm) = EIRP - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
= $P(W) - [43 + 10\log(P)]$ (dB)
= $[30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
= -13 dBm.



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 18, 2019	Mar. 08, 2020~ Mar. 09, 2020	Apr. 17, 2020	Conducted (TH01-SZ)
DC Power Supply	GWINSTEK	AnritsuGPS-3030D	EM882636	Max 30V	Apr. 18, 2019	Mar. 08, 2020~ Mar. 09, 2020	Apr. 17, 2020	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Nov. 26, 2019	Mar. 08, 2020~ Mar. 09, 2020	Nov. 25, 2020	Conducted (TH01-SZ)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Apr. 18, 2019	Feb. 26, 2020	Apr. 17, 2020	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Apr. 18, 2019	Feb. 26, 2020	Apr. 17, 2020	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	Aug. 27, 2019	Feb. 26, 2020	Aug. 26, 2020	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1474	1GHz~18GHz	Apr. 01, 2019	Feb. 26, 2020	Mar. 31, 2020	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	Apr. 19, 2019	Feb. 26, 2020	Apr. 18, 2020	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 18, 2019	Feb. 26, 2020	Oct. 17, 2020	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1	1943528	1GHz~18GHz	Oct. 18, 2019	Feb. 26, 2020	Oct. 17, 2020	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 22, 2019	Feb. 26, 2020	Jul. 21, 2020	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY53270156	500MHz~26.5GHz	Aug. 26, 2019	Feb. 26, 2020	Aug. 25, 2020	Radiation (03CH04-SZ)
AC Power Source	Chroma	61601	N/A	N/A	NCR	Feb. 26, 2020	NCR	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Feb. 26, 2020	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Feb. 26, 2020	NCR	Radiation (03CH04-SZ)

NCR: No Calibration Required



6 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.8dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.1dB
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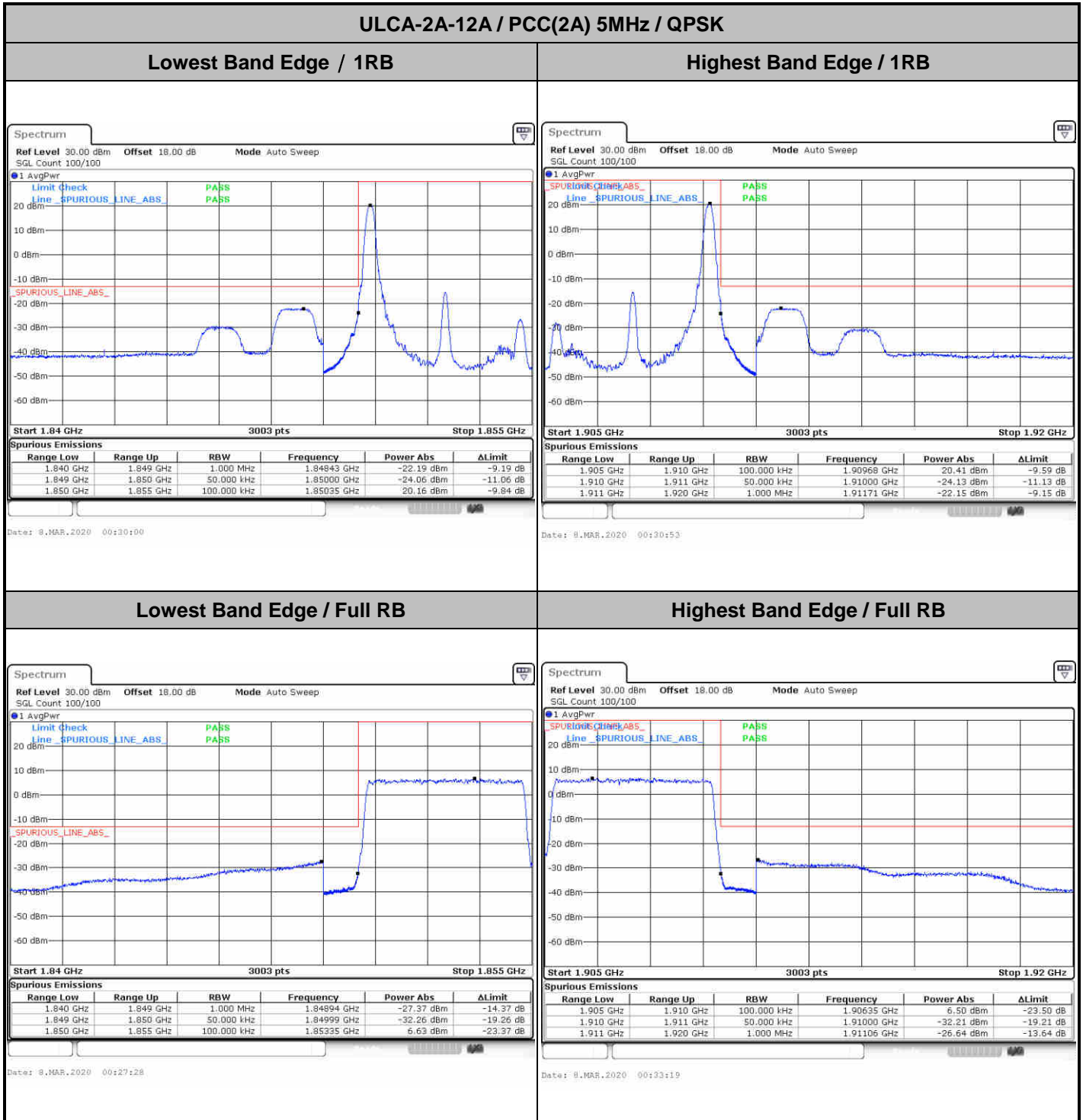
Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.9dB
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Appendix A. Test Results of Conducted Test

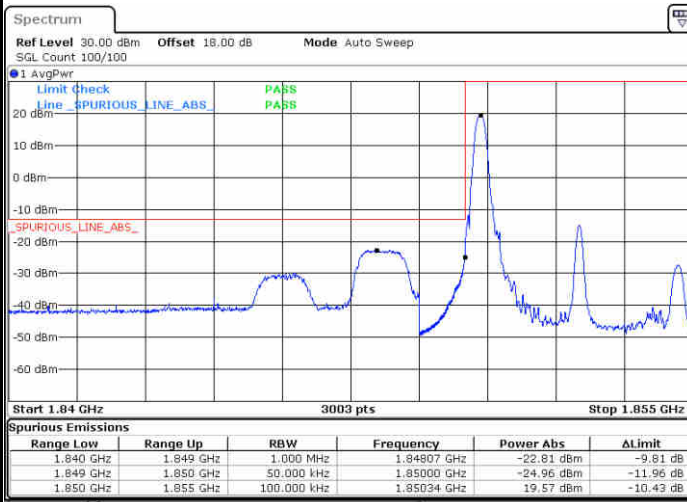
Conducted Band Edge





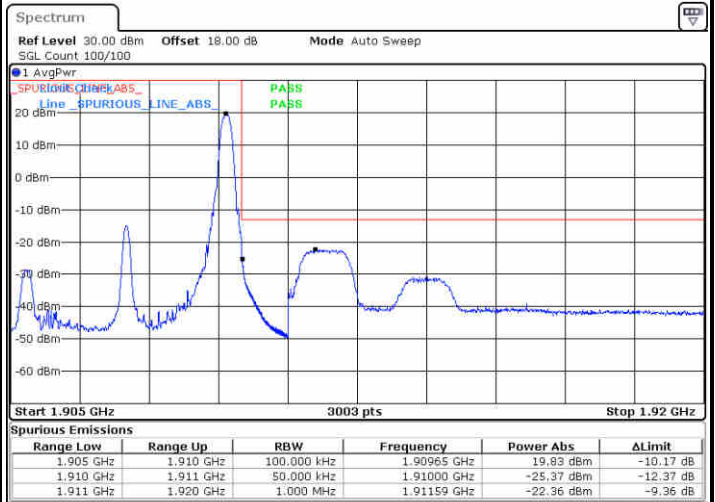
ULCA-2A-12A / PCC(2A) 5MHz / 16QAM

Lowest Band Edge / 1 RB



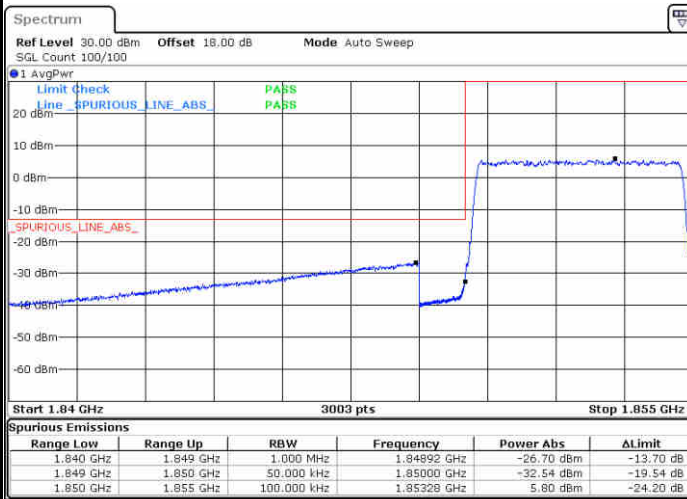
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Highest Band Edge / 1 RB



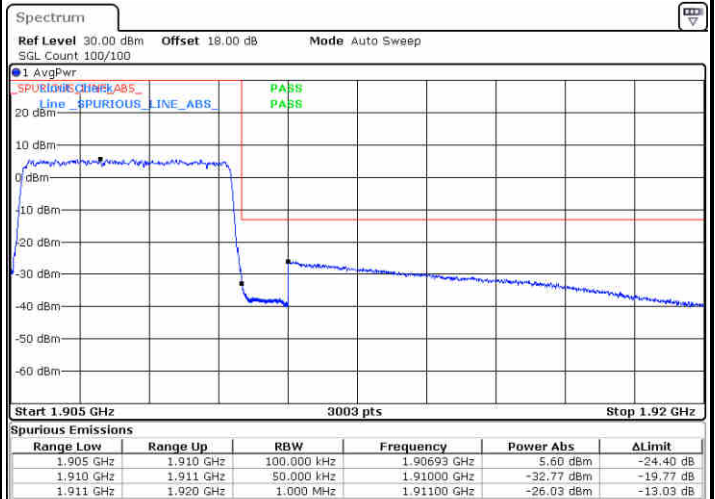
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Lowest Band Edge / Full RB



Date: 8.MAR.2020 00:28:09

Highest Band Edge / Full RB

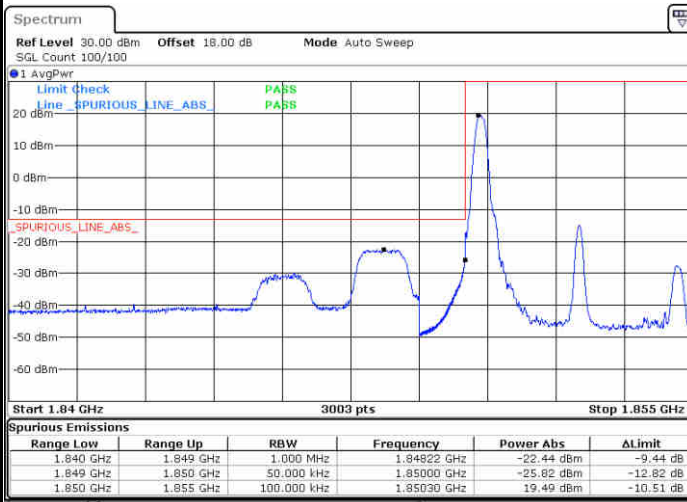


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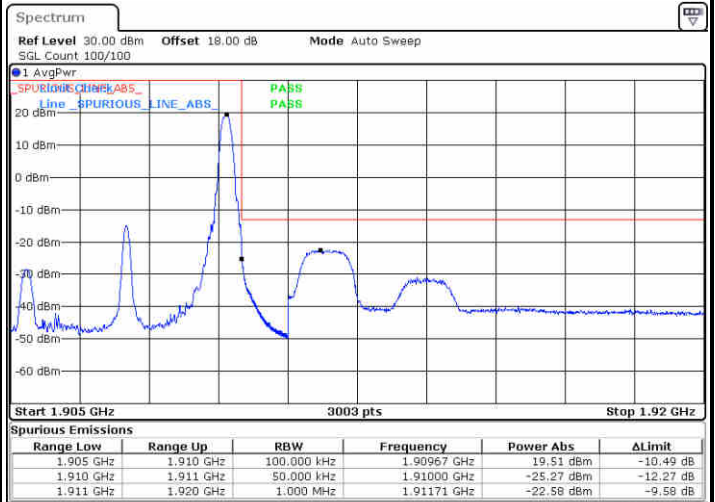


ULCA-2A-12A / PCC(2A) 5MHz / 64QAM

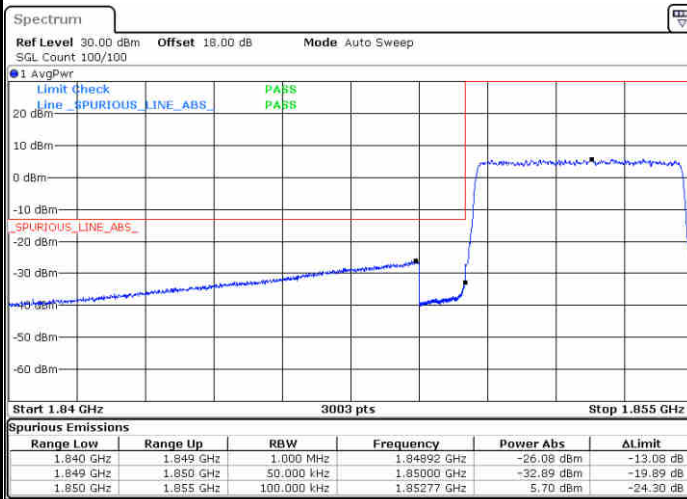
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



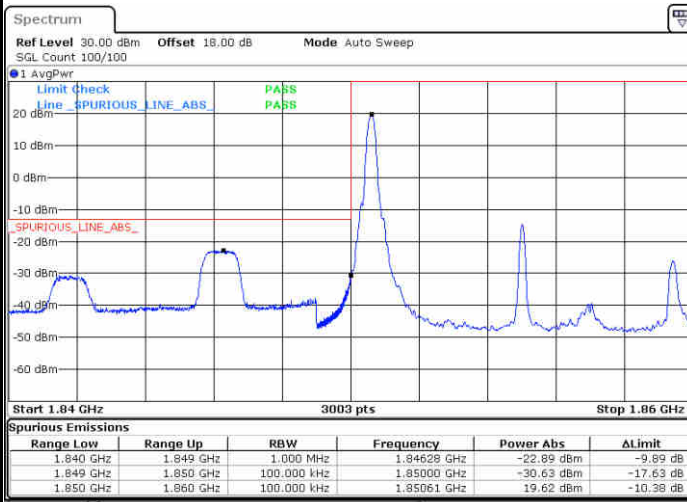
Highest Band Edge / Full RB



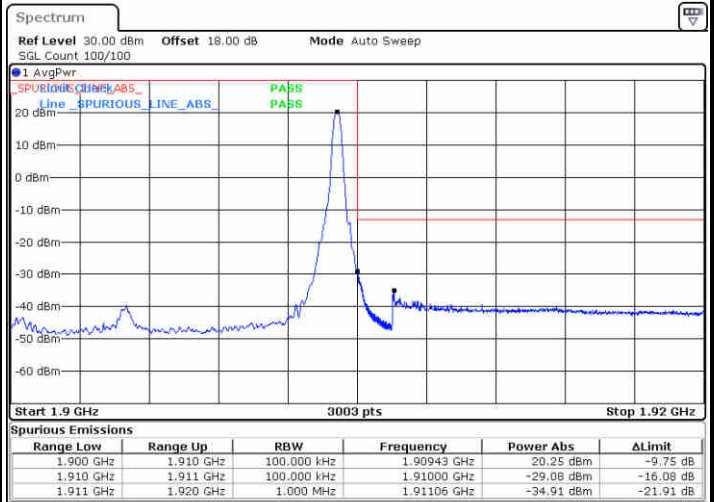


ULCA-2A-12A / PCC(2A) 10MHz / QPSK

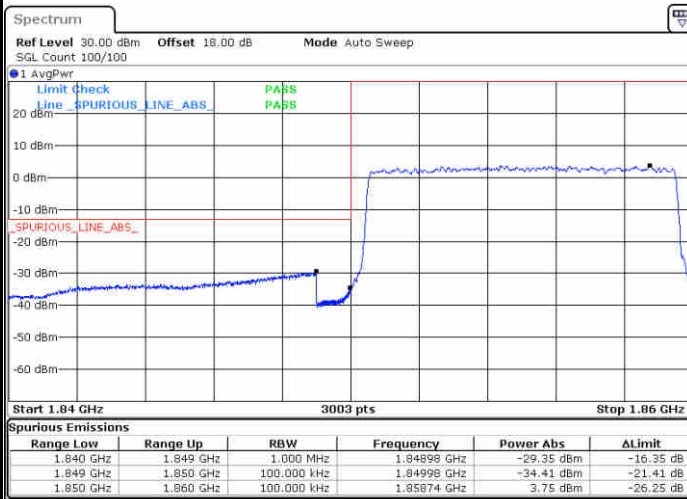
Lowest Band Edge / 1 RB



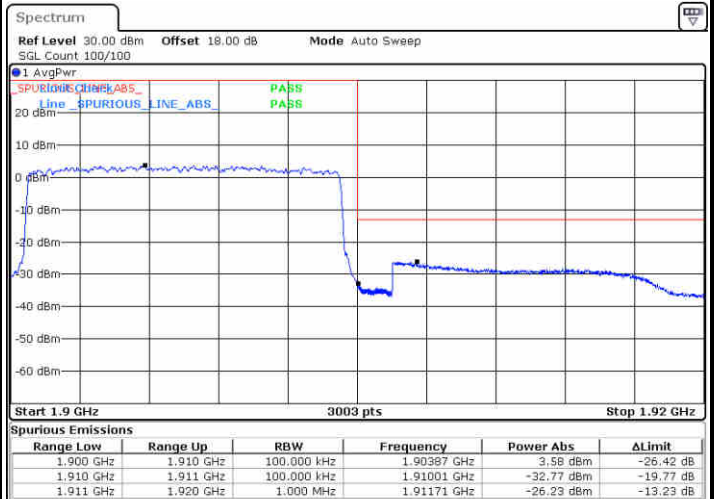
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



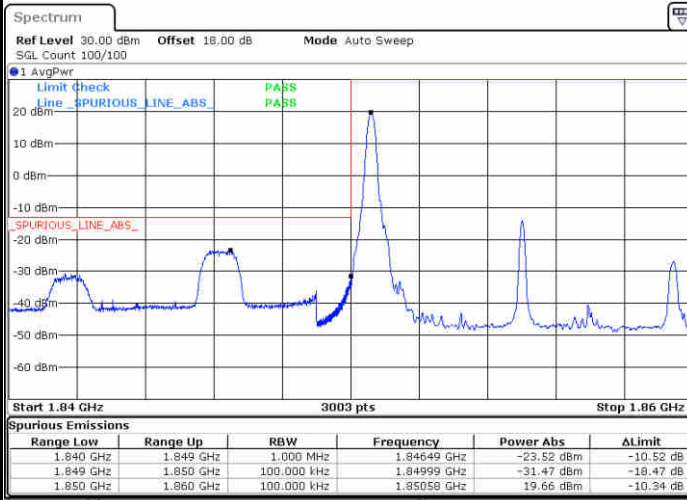
Highest Band Edge / Full RB





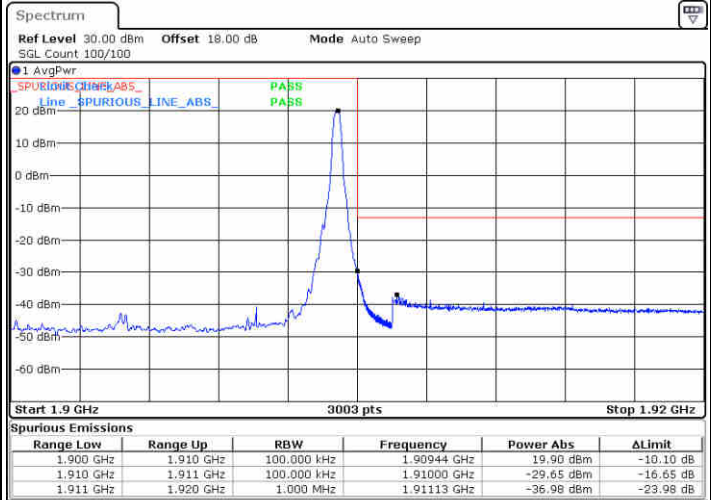
ULCA-2A-12A / PCC(2A) 10MHz / 16QAM

Lowest Band Edge / 1 RB



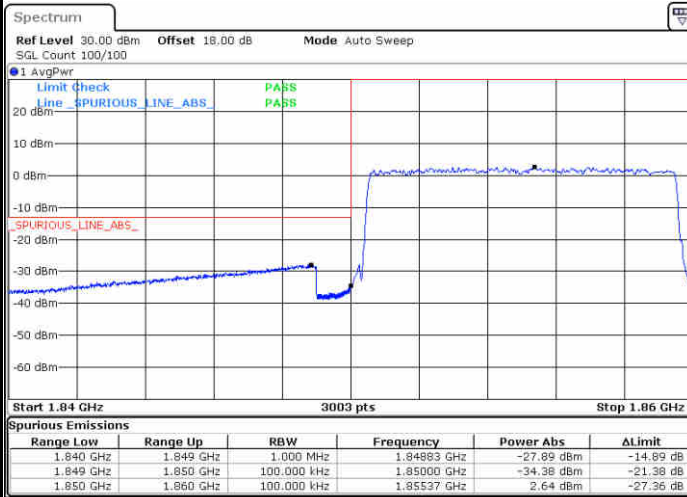
Date: 8.MAR.2020 00:24:36

Highest Band Edge / 1 RB



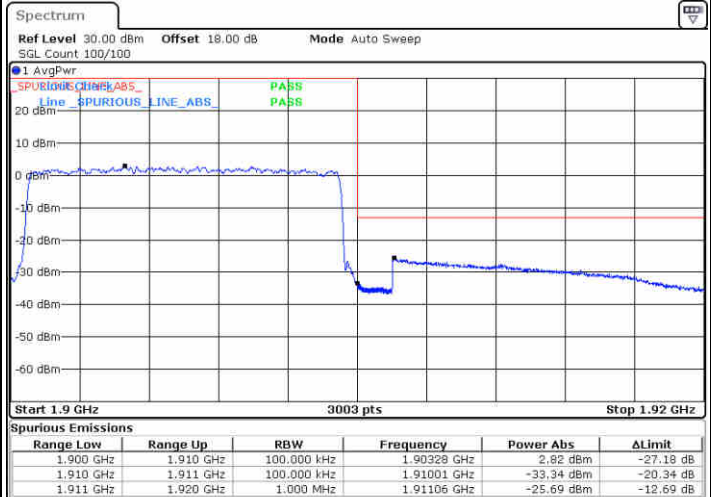
Date: 8.MAR.2020 00:28:38

Lowest Band Edge / Full RB



Date: 8.MAR.2020 00:26:04

Highest Band Edge / Full RB

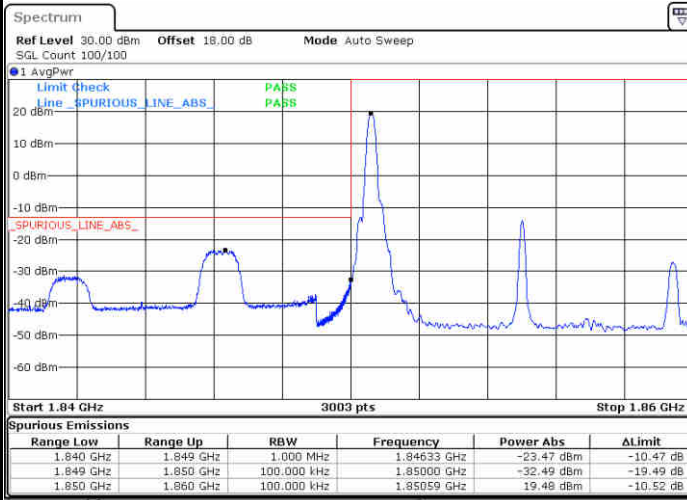


Date: 8.MAR.2020 00:37:06



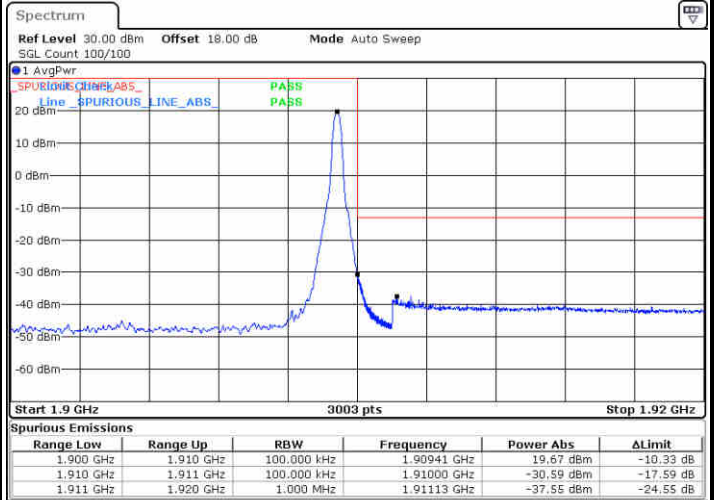
ULCA-2A-12A / PCC(2A) 10MHz / 64QAM

Lowest Band Edge / 1 RB



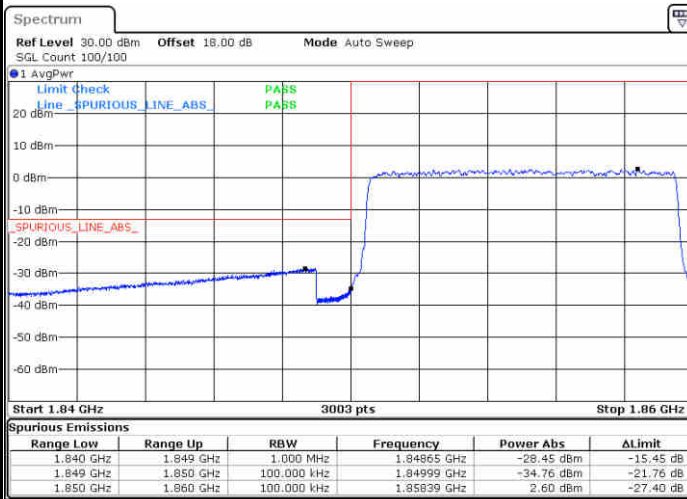
Date: 8.MAR.2020 00:35:01

Highest Band Edge / 1 RB



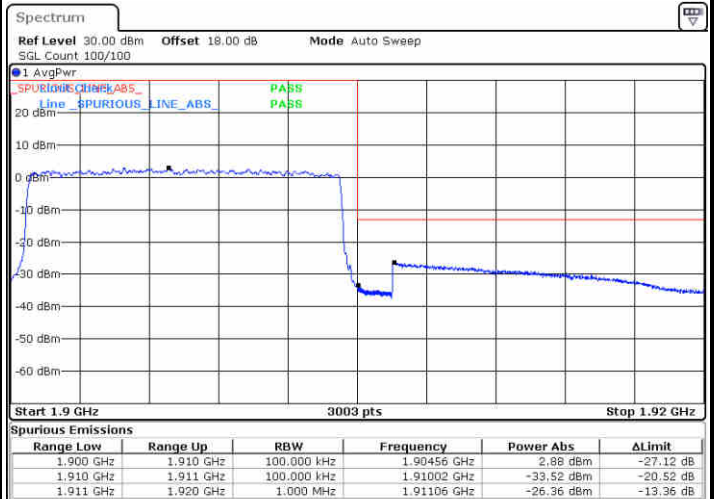
Date: 8.MAR.2020 00:38:16

Lowest Band Edge / Full RB



Date: 8.MAR.2020 00:35:48

Highest Band Edge / Full RB

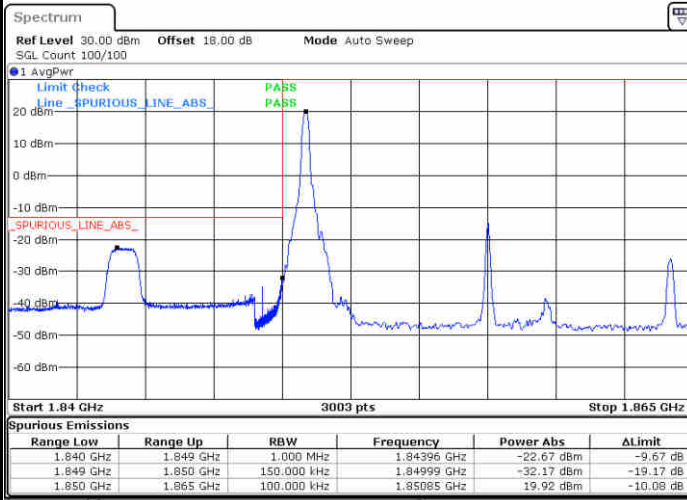


Date: 8.MAR.2020 00:37:24



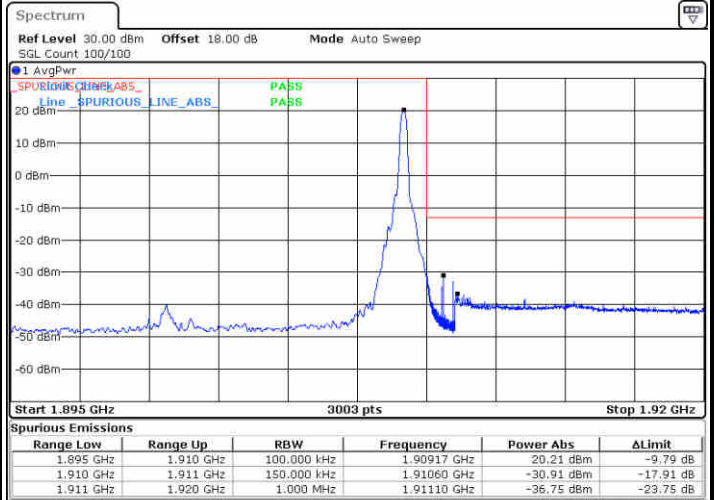
ULCA-2A-12A / PCC(2A) 15MHz / QPSK

Lowest Band Edge / 1 RB



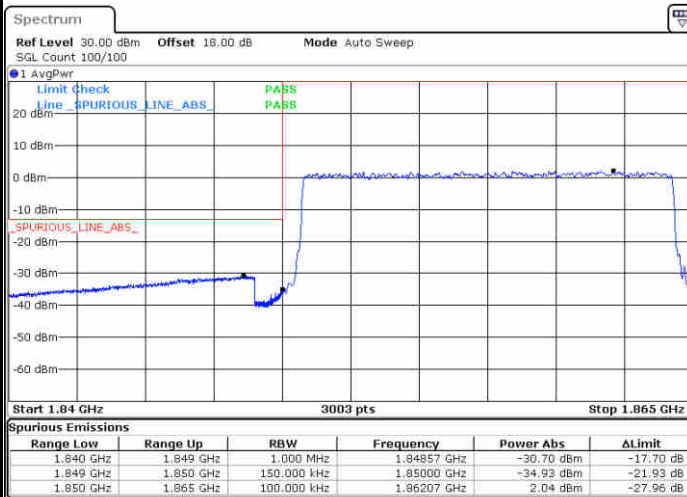
Date: 8.MAR.2020 00:40:05

Highest Band Edge / 1 RB



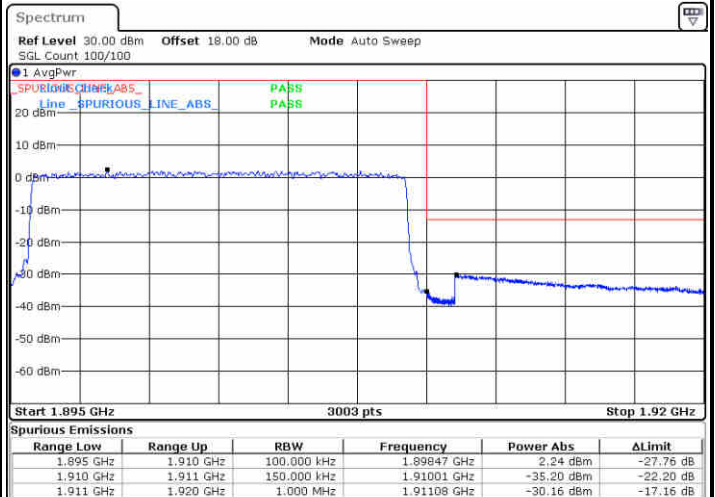
Date: 8.MAR.2020 00:45:58

Lowest Band Edge / Full RB



Date: 8.MAR.2020 00:43:32

Highest Band Edge / Full RB

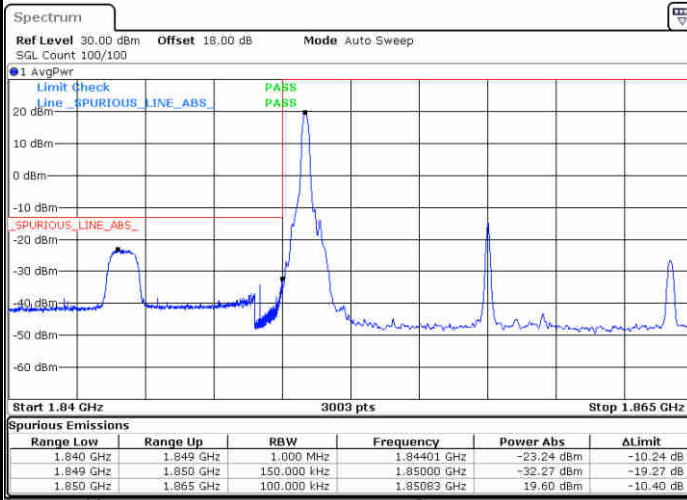


Date: 8.MAR.2020 00:44:13

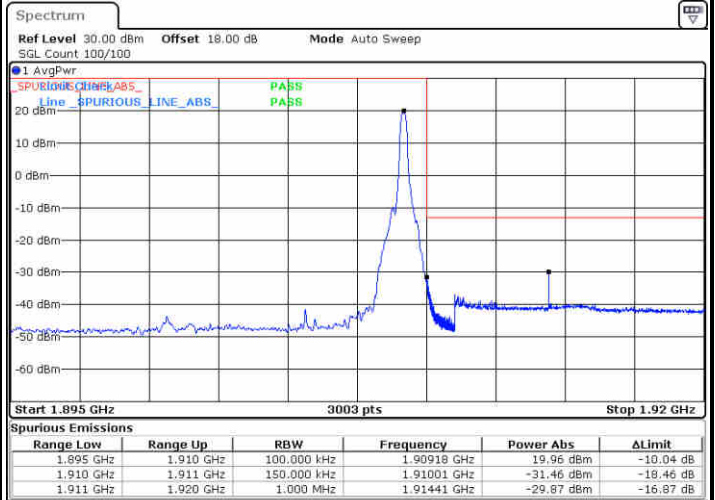


ULCA-2A-12A / PCC(2A) 15MHz / 16QAM

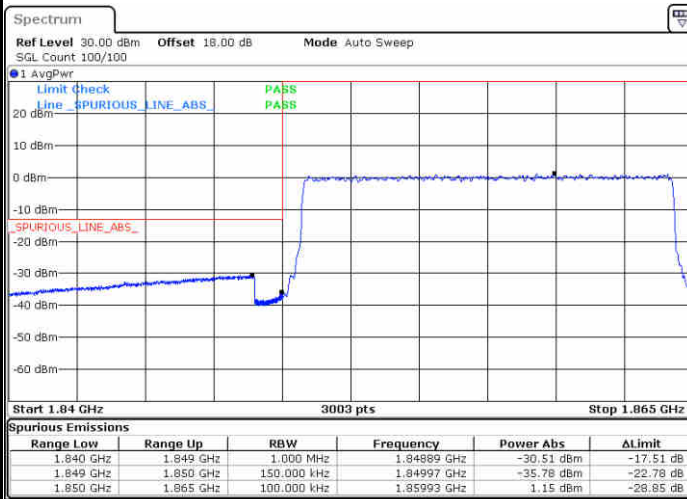
Lowest Band Edge / 1 RB



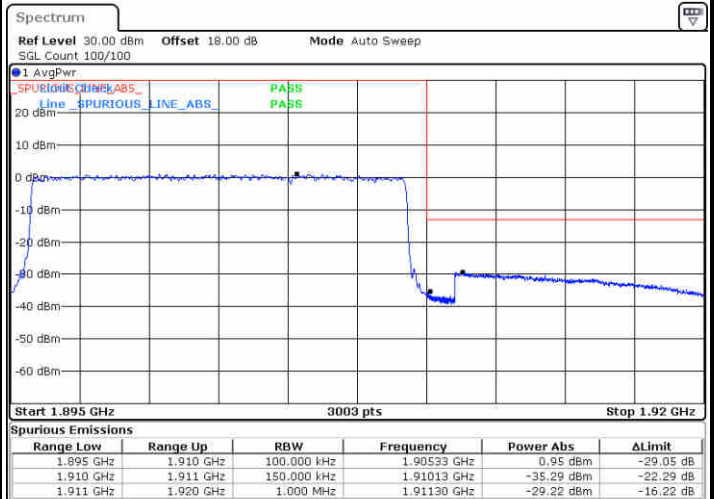
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



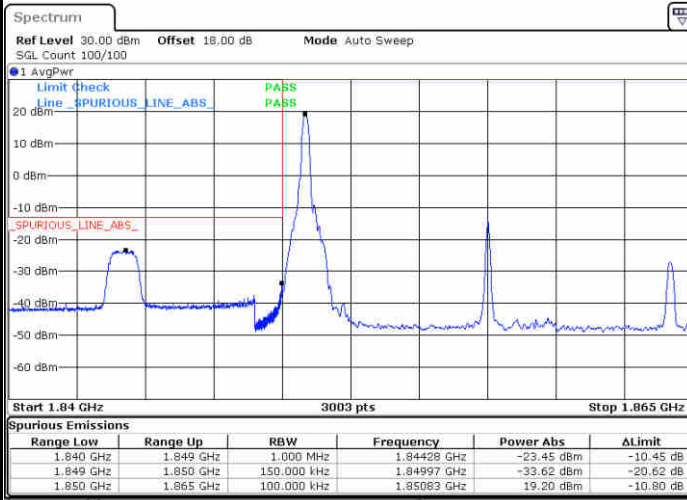
Highest Band Edge / Full RB



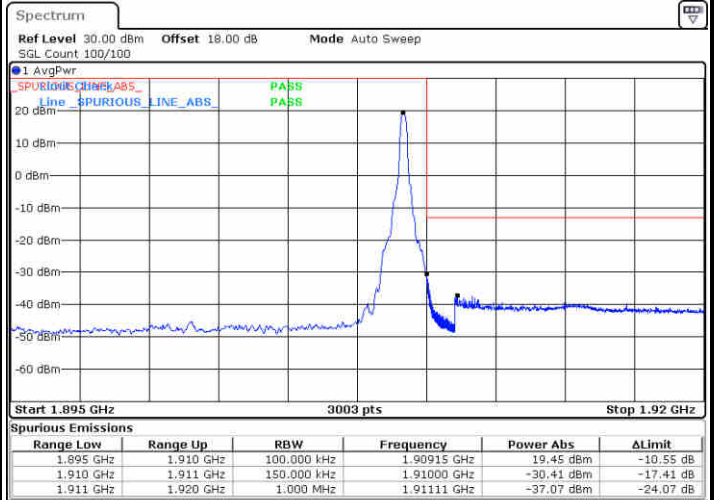


ULCA-2A-12A / PCC(2A) 15MHz / 64QAM

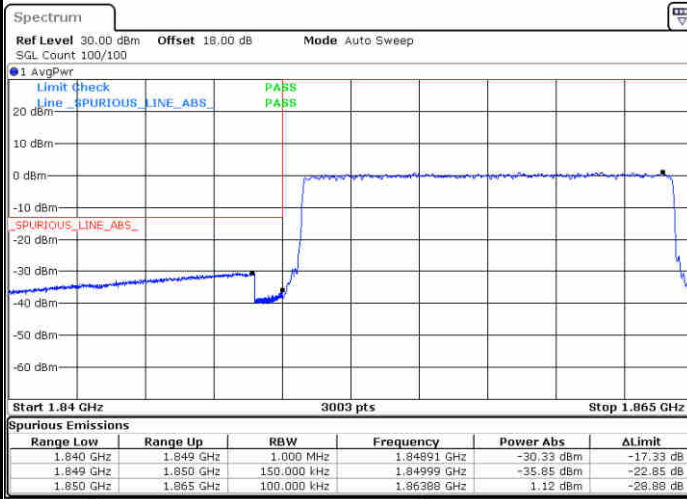
Lowest Band Edge / 1 RB



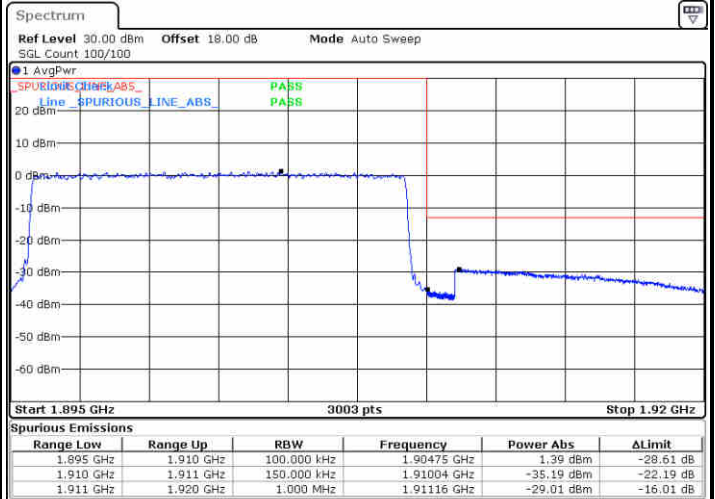
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



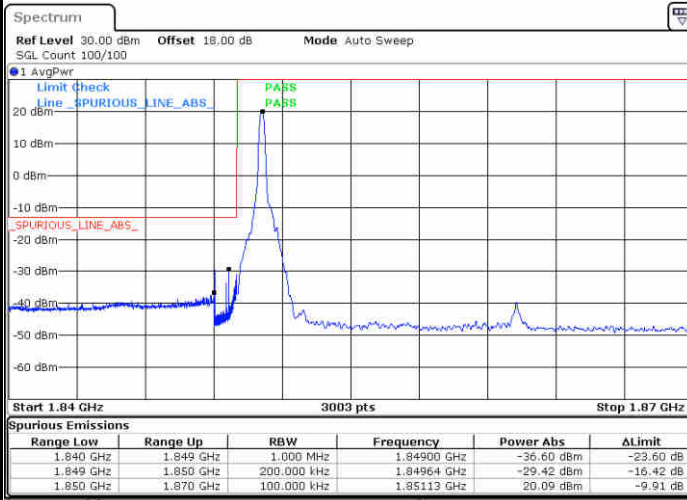
Highest Band Edge / Full RB





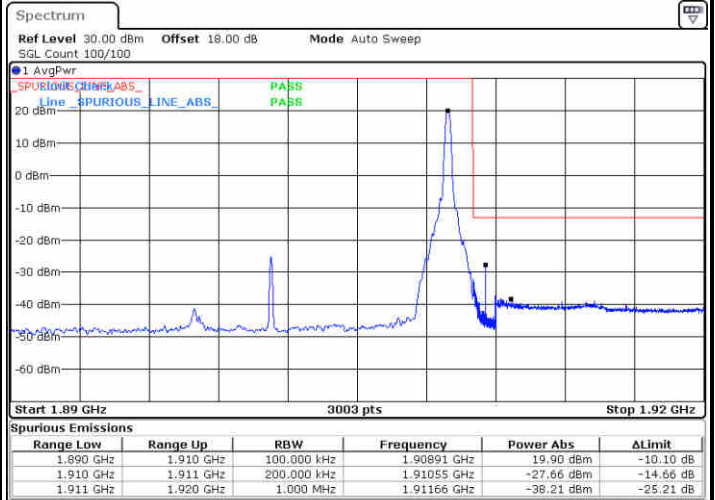
ULCA-2A-12A / PCC(2A) 20MHz / QPSK

Lowest Band Edge / 1 RB



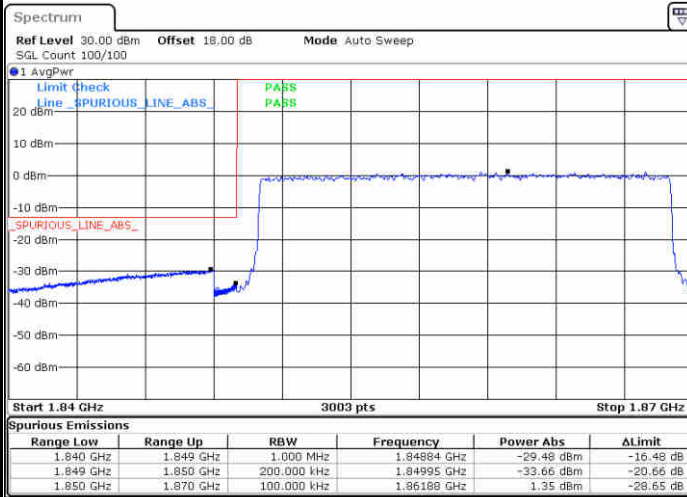
Date: 8.MAR.2020 00:46:54

Highest Band Edge / 1 RB



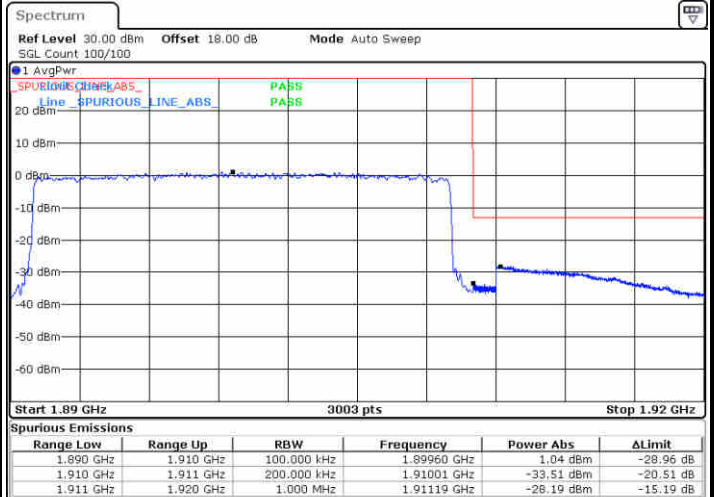
Date: 8.MAR.2020 00:51:47

Lowest Band Edge / Full RB



Date: 8.MAR.2020 00:48:34

Highest Band Edge / Full RB

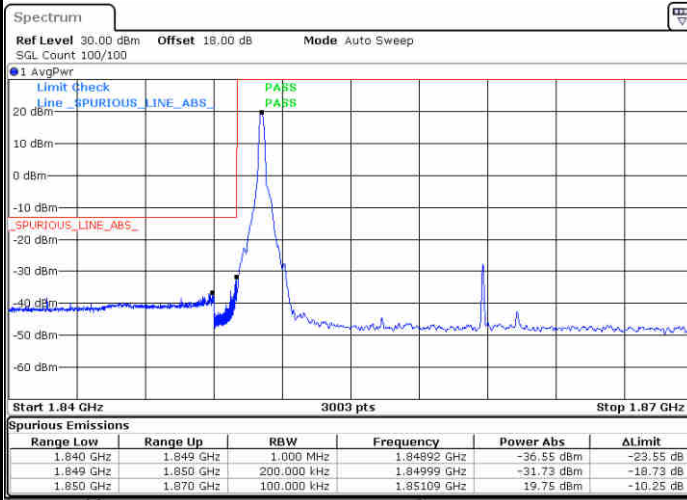


Date: 8.MAR.2020 00:49:33



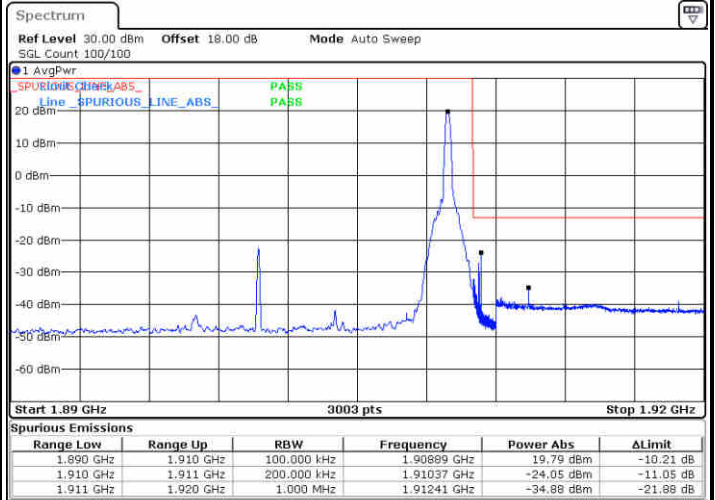
ULCA-2A-12A / PCC(2A) 20MHz / 16QAM

Lowest Band Edge / 1 RB



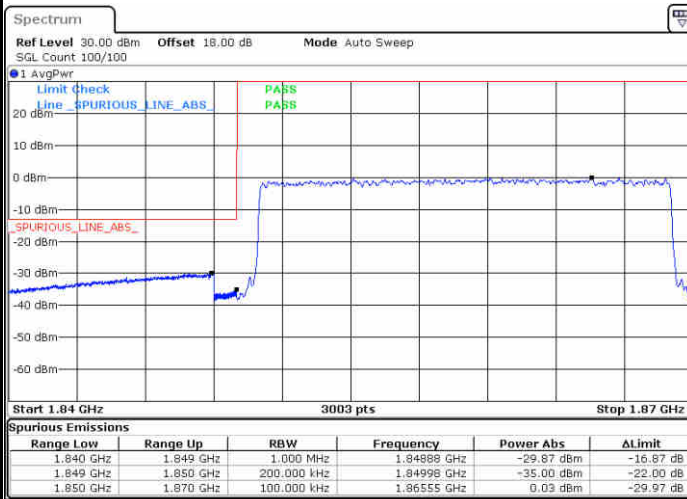
Date: 8.MAR.2020 00:47:09

Highest Band Edge / 1 RB



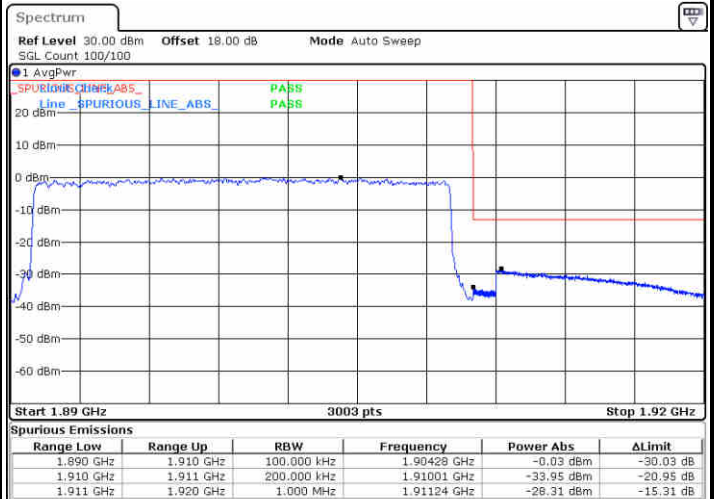
Date: 8.MAR.2020 00:51:29

Lowest Band Edge / Full RB



Date: 8.MAR.2020 00:48:16

Highest Band Edge / Full RB

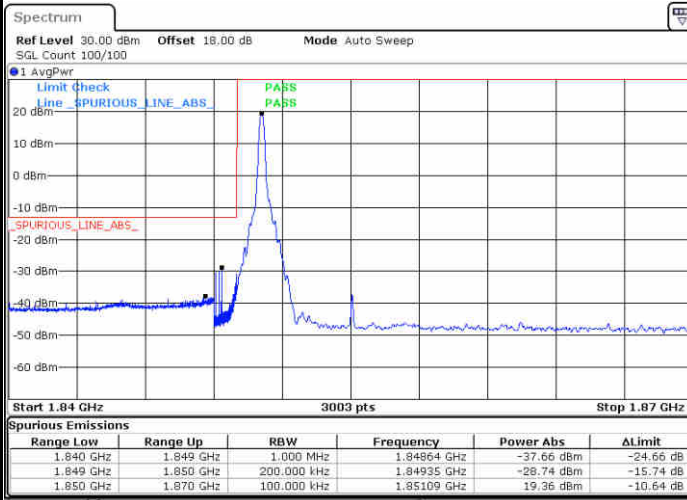


Date: 8.MAR.2020 00:49:57



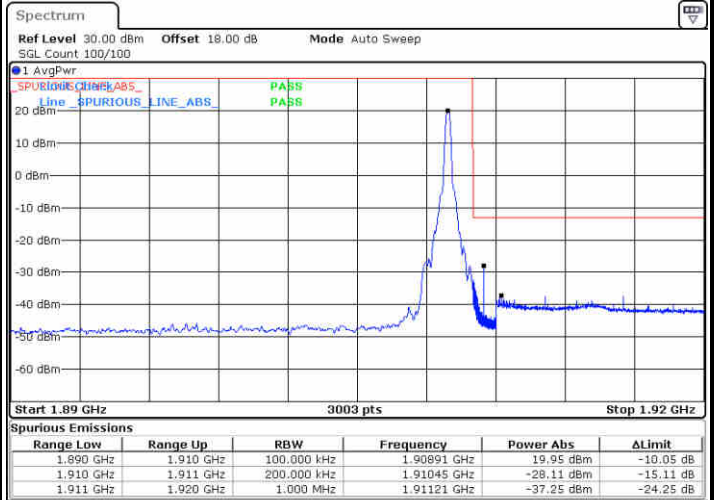
ULCA-2A-12A / PCC(2A) 20MHz / 64QAM

Lowest Band Edge / 1 RB



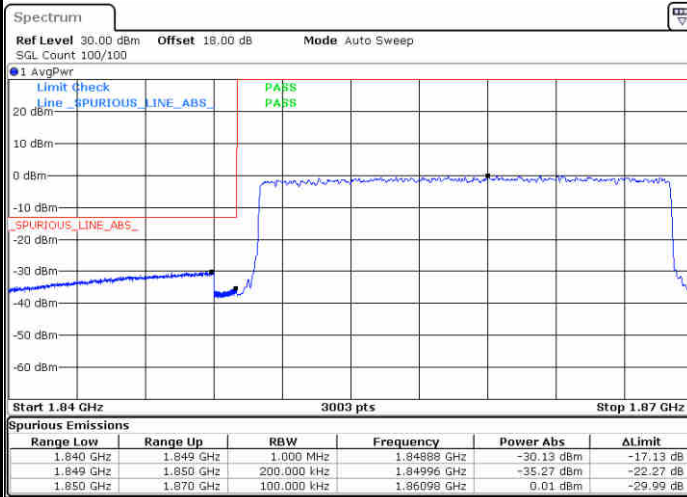
Date: 8.MAR.2020 00:47:24

Highest Band Edge / 1 RB



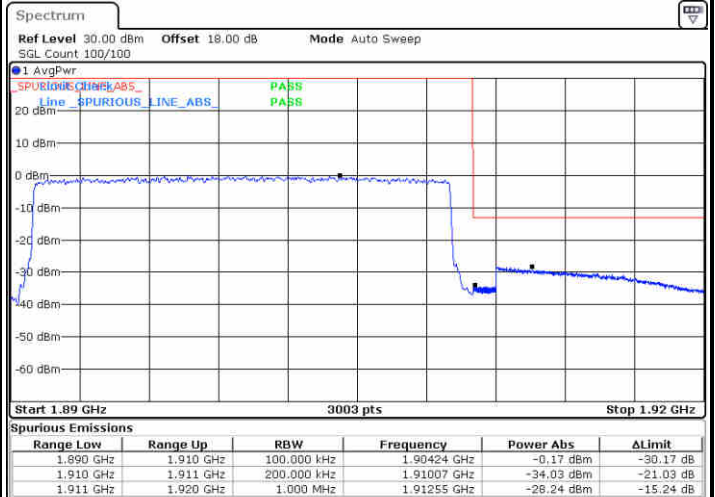
Date: 8.MAR.2020 00:51:00

Lowest Band Edge / Full RB



Date: 8.MAR.2020 00:47:50

Highest Band Edge / Full RB

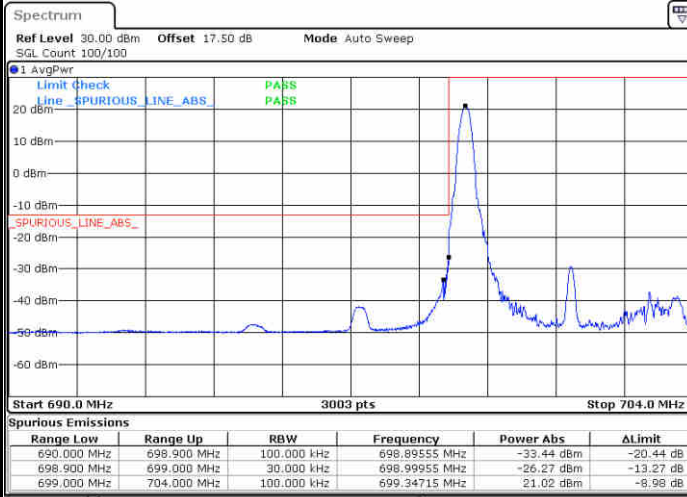


Date: 8.MAR.2020 00:50:30



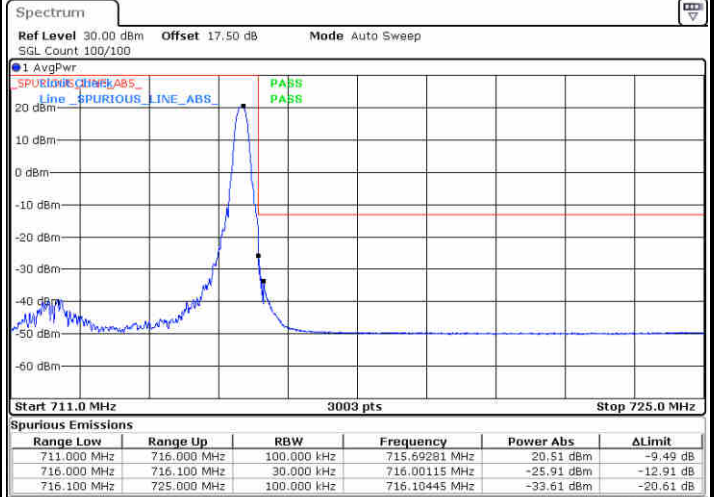
ULCA-2A-12A / SCC(12A) 5MHz / QPSK

Lowest Band Edge / 1RB



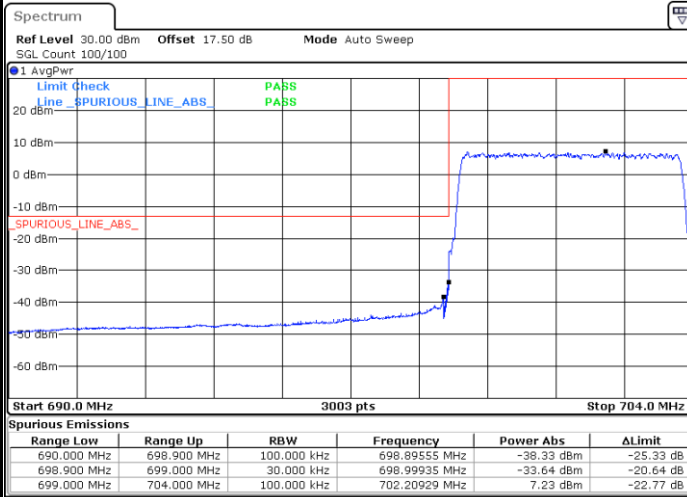
Date: 9.MAR.2020 00:03:25

Highest Band Edge / 1RB



Date: 9.MAR.2020 00:04:25

Lowest Band Edge / Full RB



Date: 8.MAR.2020 23:59:03

Highest Band Edge / Full RB

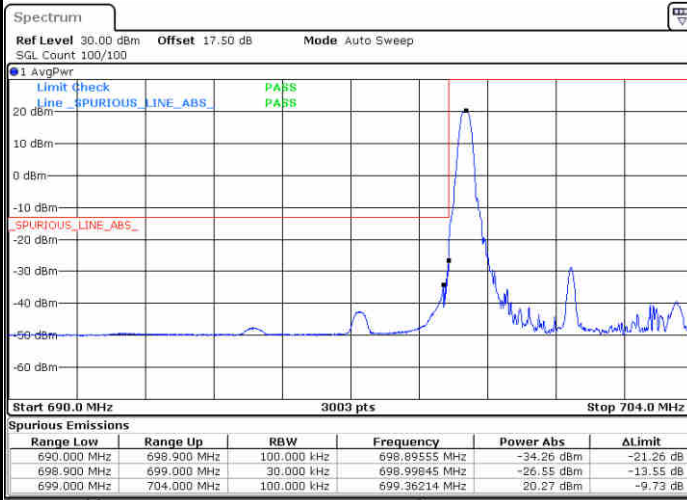


Date: 9.MAR.2020 00:09:41

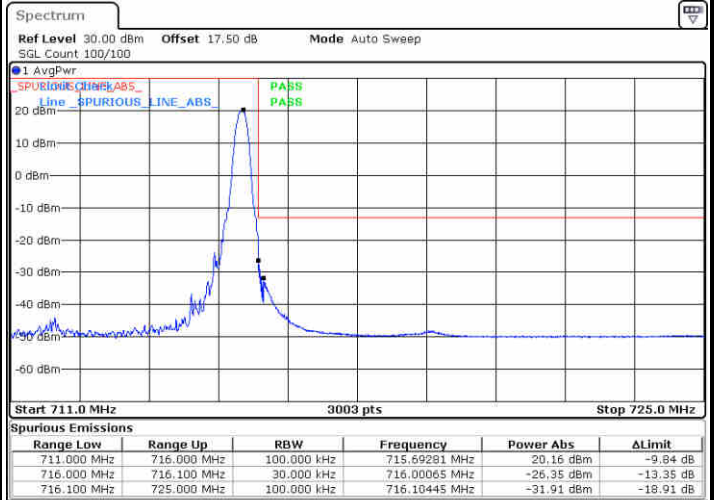


ULCA-2A-12A / SCC(12A) 5MHz / 16QAM

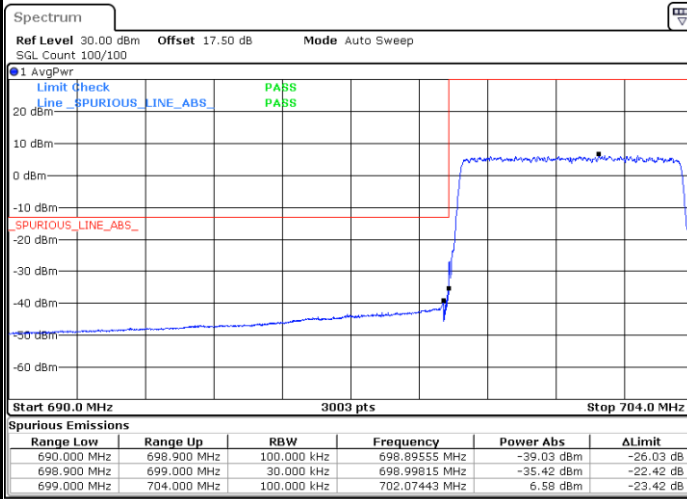
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



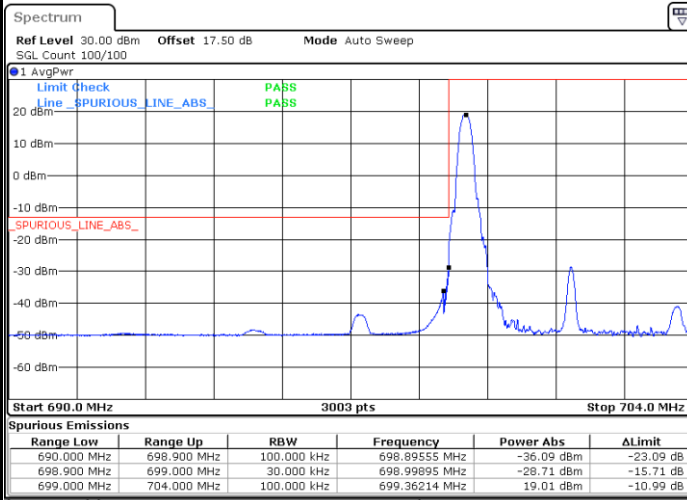
Highest Band Edge / Full RB





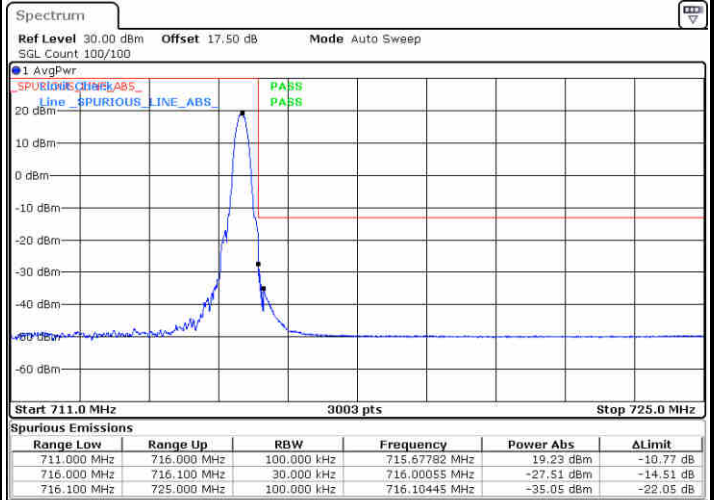
ULCA-2A-12A / SCC(12A) 5MHz / 64QAM

Lowest Band Edge / 1 RB



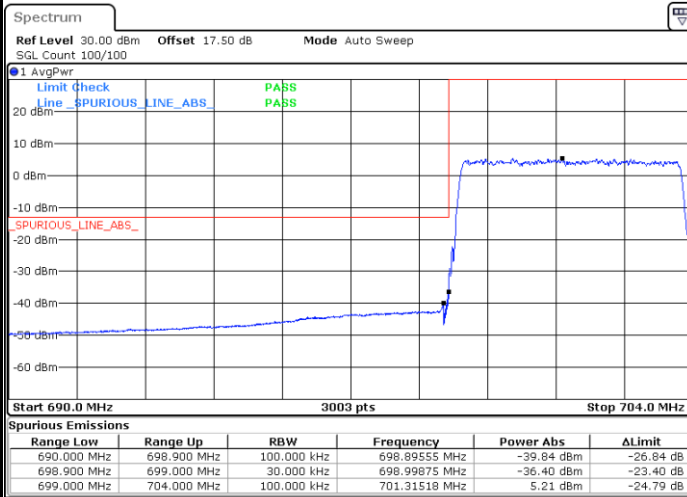
Date: 9.MAR.2020 00:02:10

Highest Band Edge / 1 RB



Date: 9.MAR.2020 00:05:46

Lowest Band Edge / Full RB



Date: 9.MAR.2020 00:01:26

Highest Band Edge / Full RB

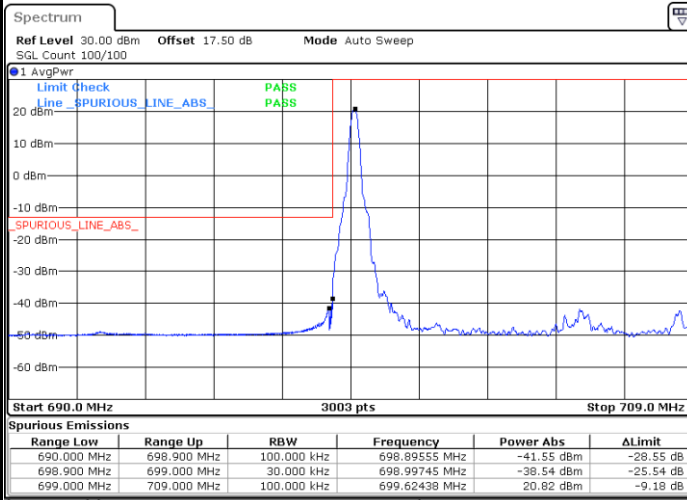


Date: 9.MAR.2020 00:06:36



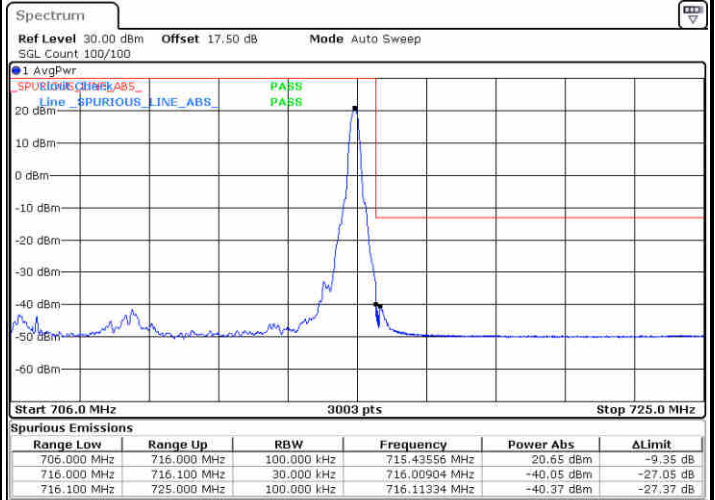
ULCA-2A-12A / SCC(12A) 10MHz / QPSK

Lowest Band Edge / 1 RB



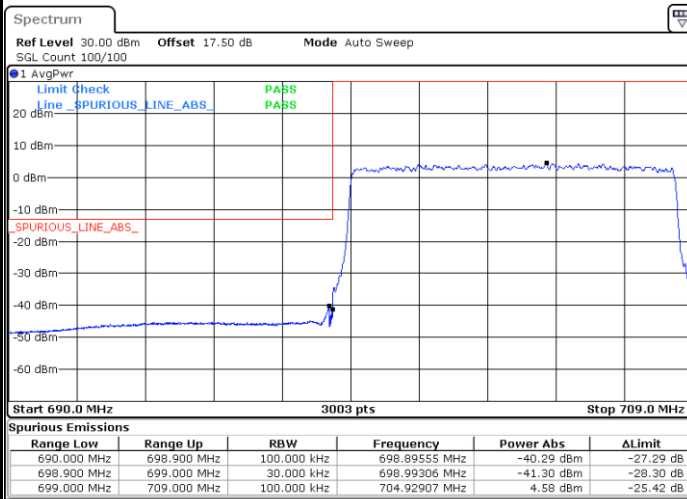
Date: 9.MAR.2020 00:14:26

Highest Band Edge / 1 RB



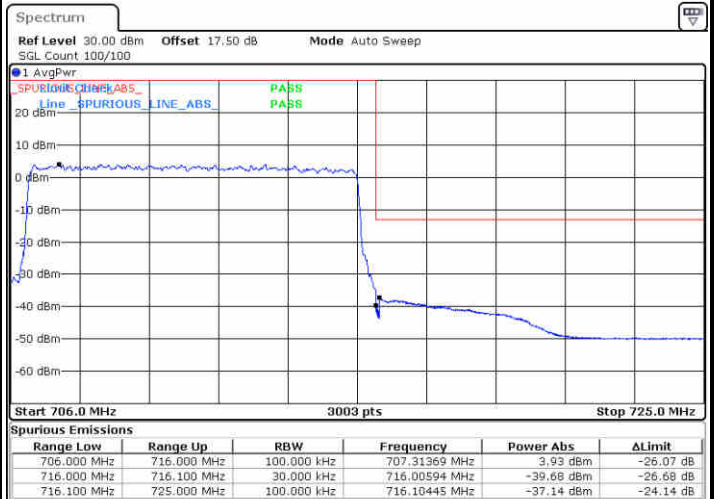
Date: 9.MAR.2020 00:16:36

Lowest Band Edge / Full RB



Date: 9.MAR.2020 00:11:10

Highest Band Edge / Full RB

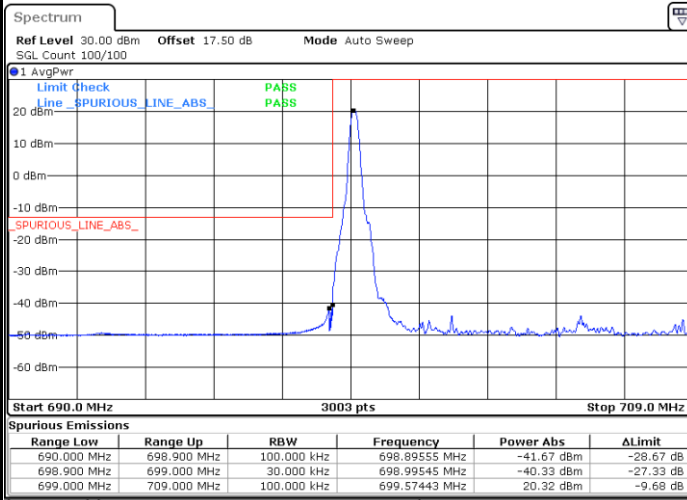


Date: 9.MAR.2020 00:37:41



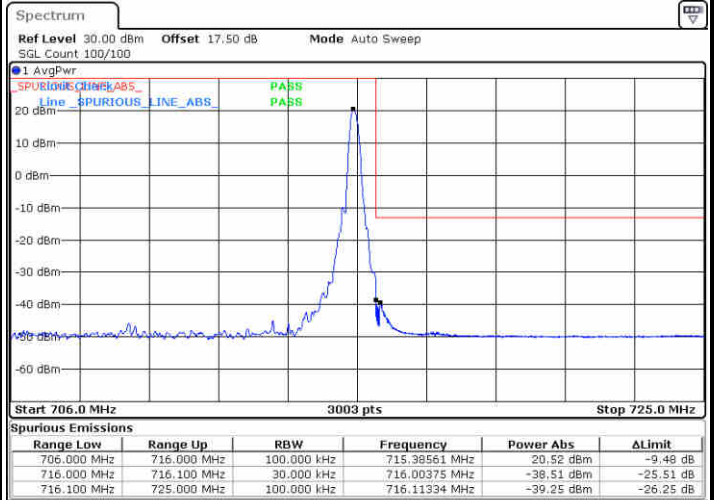
ULCA-2A-12A / SCC(12A) 10MHz / 16QAM

Lowest Band Edge / 1 RB



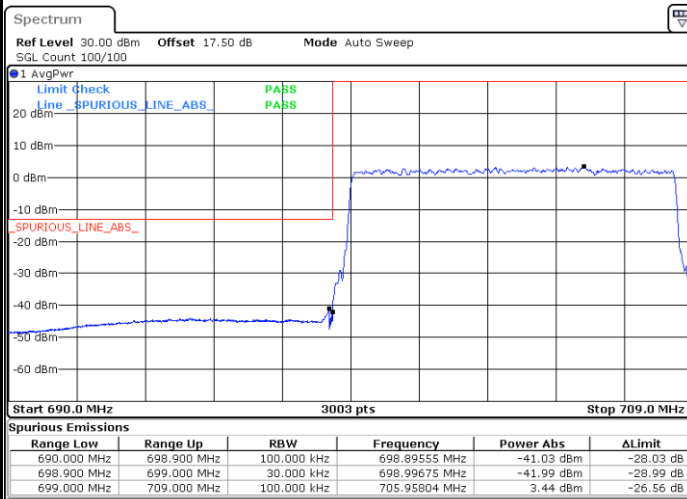
Date: 9.MAR.2020 00:13:48

Highest Band Edge / 1 RB



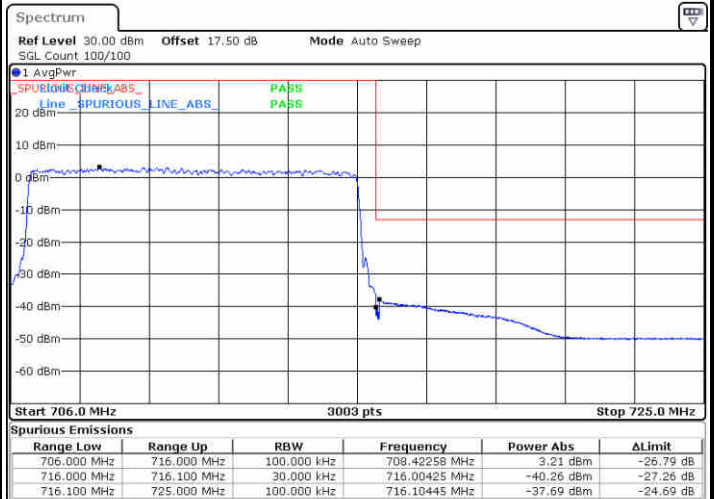
Date: 9.MAR.2020 00:17:30

Lowest Band Edge / Full RB



Date: 9.MAR.2020 00:11:47

Highest Band Edge / Full RB

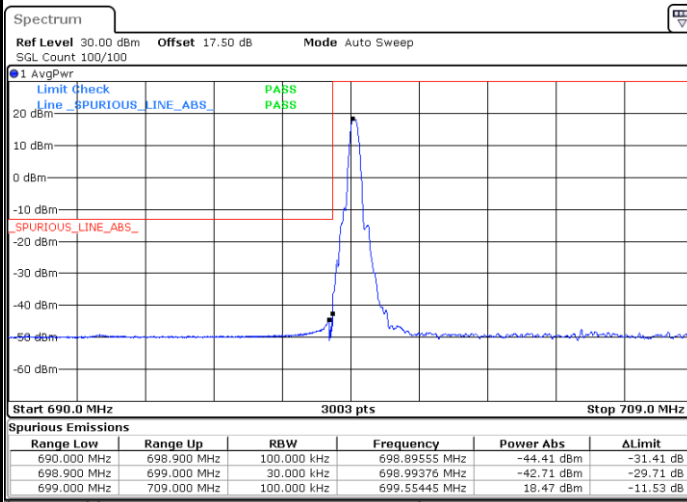


Date: 9.MAR.2020 00:36:39



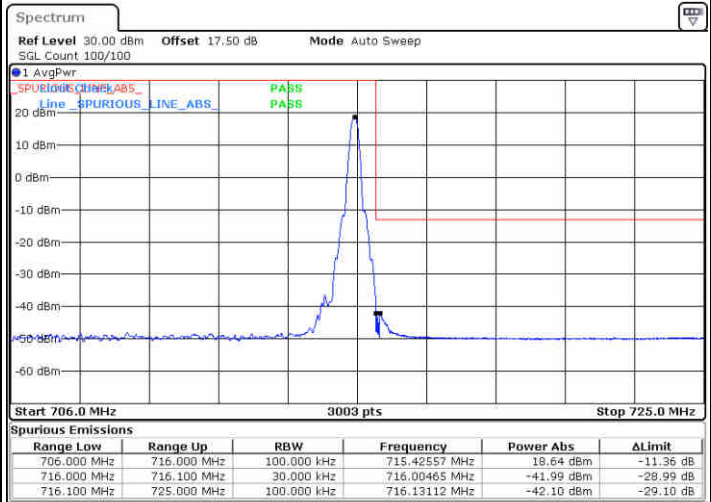
ULCA-2A-12A / SCC(12A) 10MHz / 64QAM

Lowest Band Edge / 1 RB



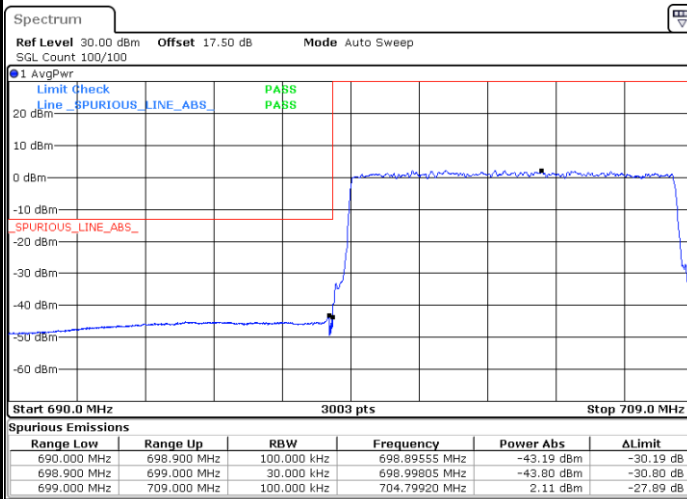
Date: 9.MAR.2020 00:13:06

Highest Band Edge / 1 RB



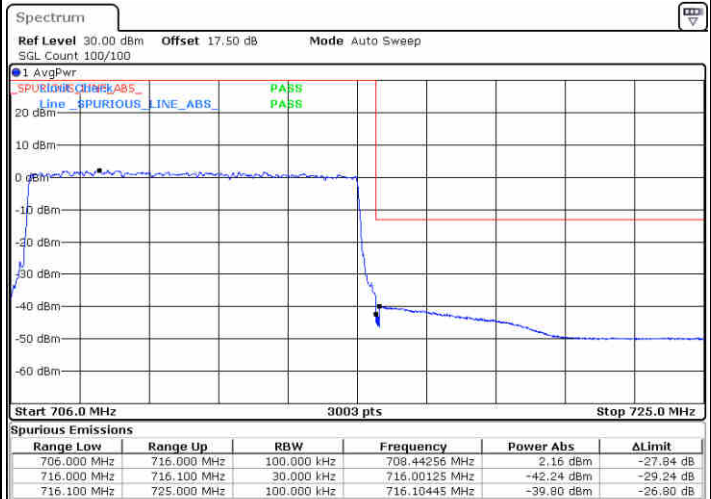
Date: 9.MAR.2020 00:18:13

Lowest Band Edge / Full RB



Date: 9.MAR.2020 00:12:26

Highest Band Edge / Full RB

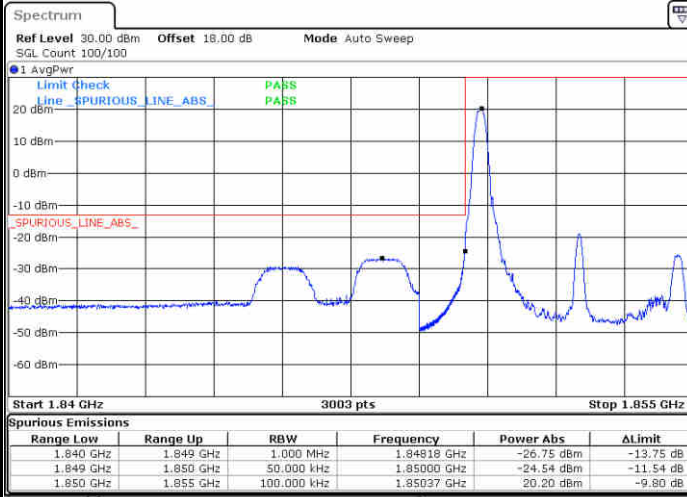


Date: 9.MAR.2020 00:34:58

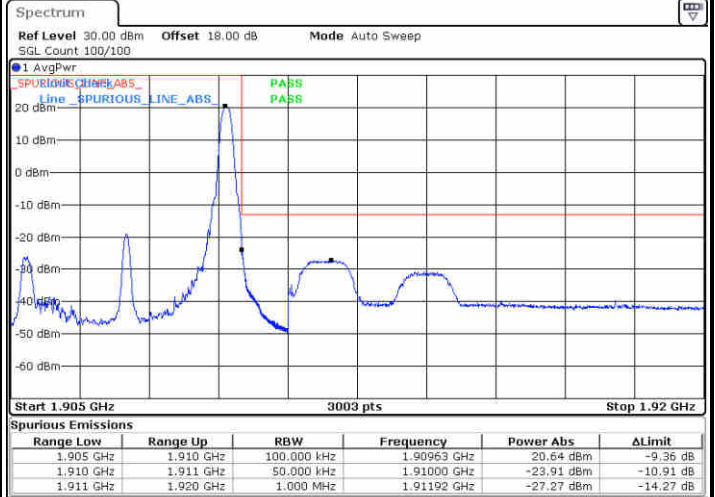


ULCA-2A-13A / PCC(2A) 5MHz / QPSK

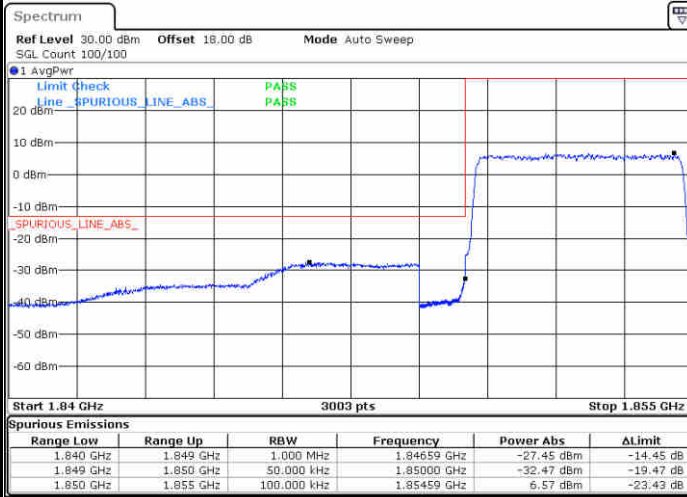
Lowest Band Edge / 1RB



Highest Band Edge / 1RB



Lowest Band Edge / Full RB



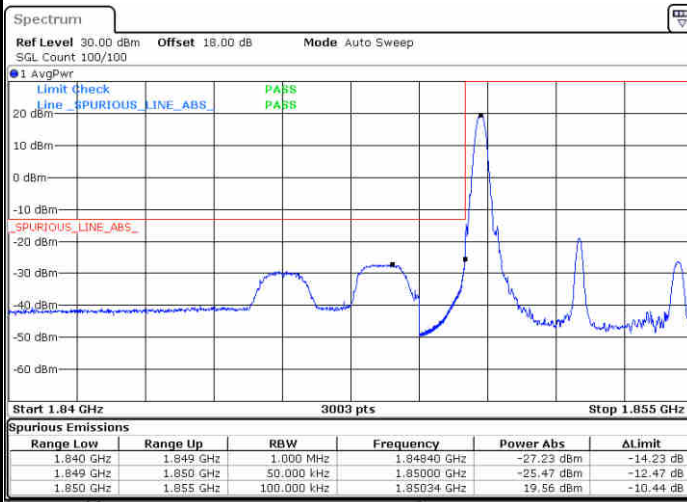
Highest Band Edge / Full RB





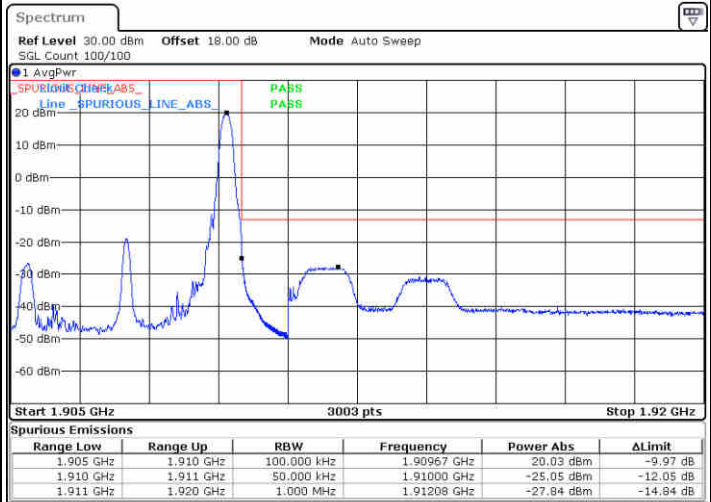
ULCA-2A-13A / PCC(2A) 5MHz / 16QAM

Lowest Band Edge / 1 RB



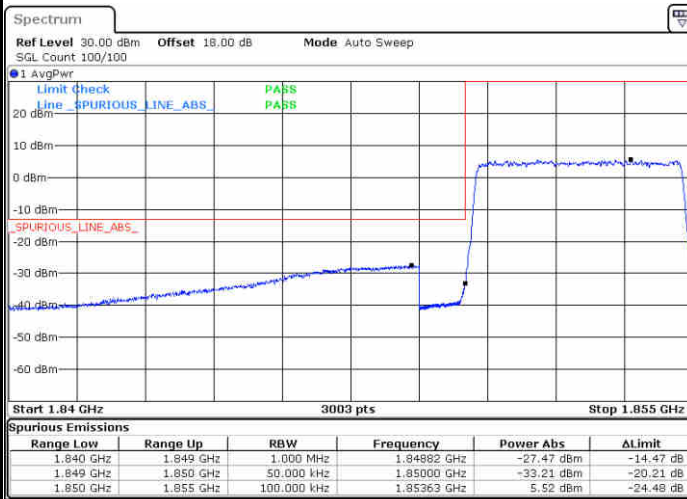
Date: 8.MAR.2020 22:49:05

Highest Band Edge / 1 RB



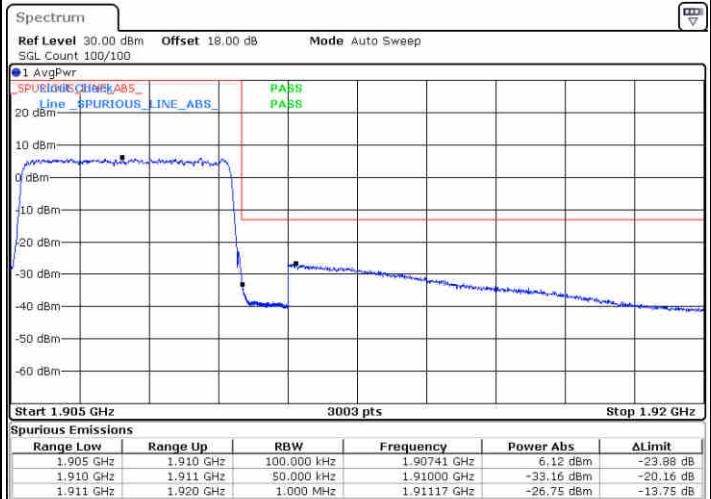
Date: 8.MAR.2020 22:51:15

Lowest Band Edge / Full RB



Date: 8.MAR.2020 22:47:20

Highest Band Edge / Full RB

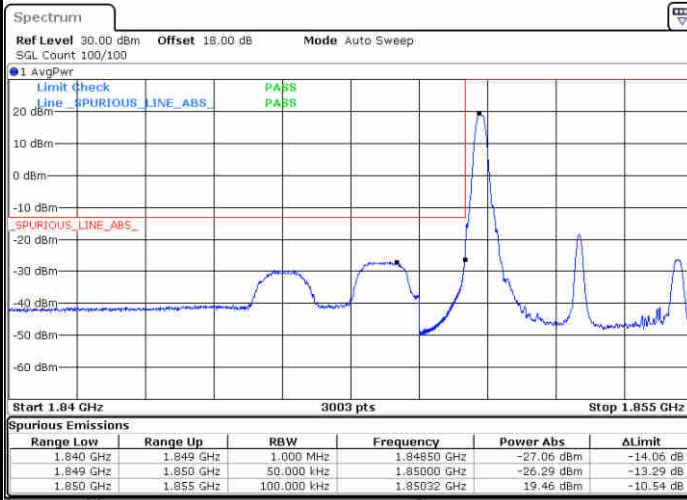


Date: 8.MAR.2020 22:53:08



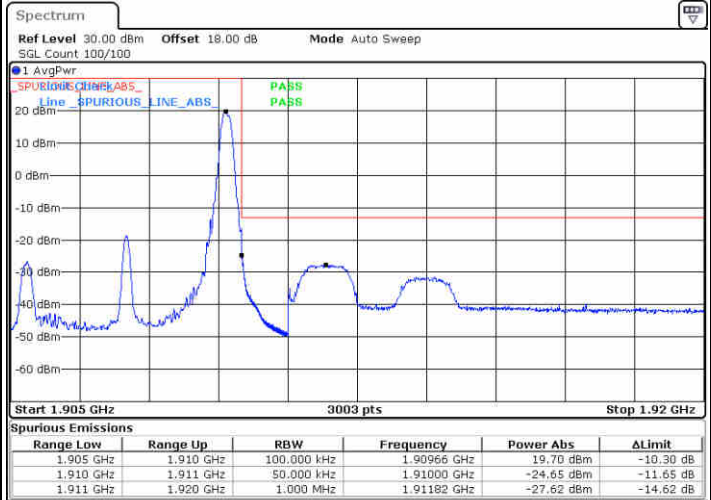
ULCA-2A-13A / PCC(2A) 5MHz / 64QAM

Lowest Band Edge / 1 RB



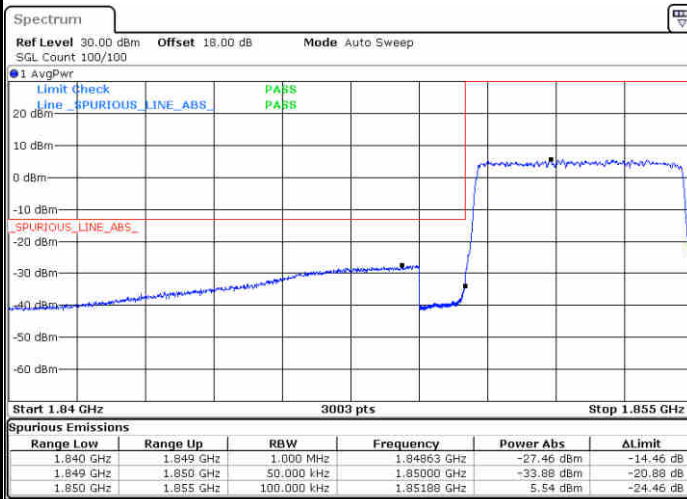
Date: 8.MAR.2020 22:48:38

Highest Band Edge / 1 RB



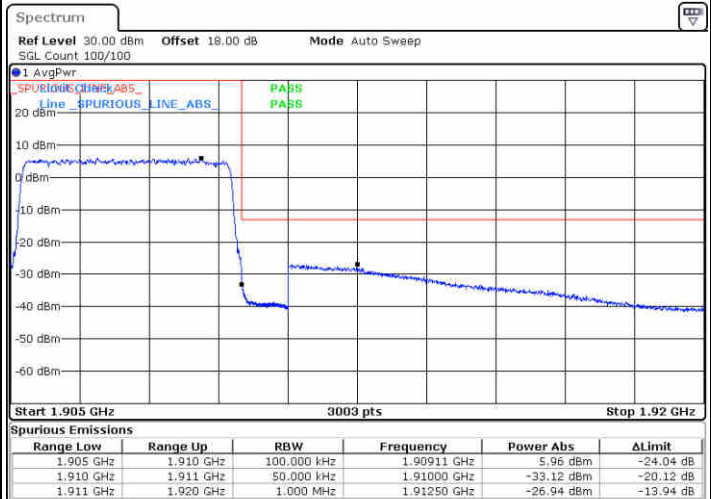
Date: 8.MAR.2020 22:51:58

Lowest Band Edge / Full RB



Date: 8.MAR.2020 22:47:44

Highest Band Edge / Full RB

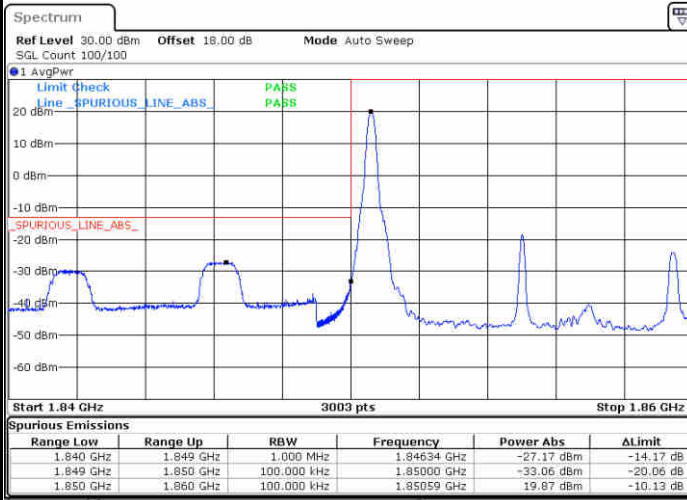


Date: 8.MAR.2020 22:52:42

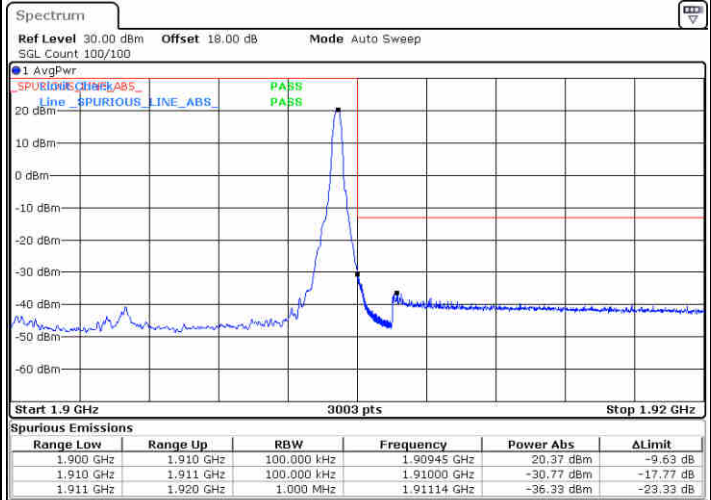


ULCA-2A-13A / PCC(2A) 10MHz / QPSK

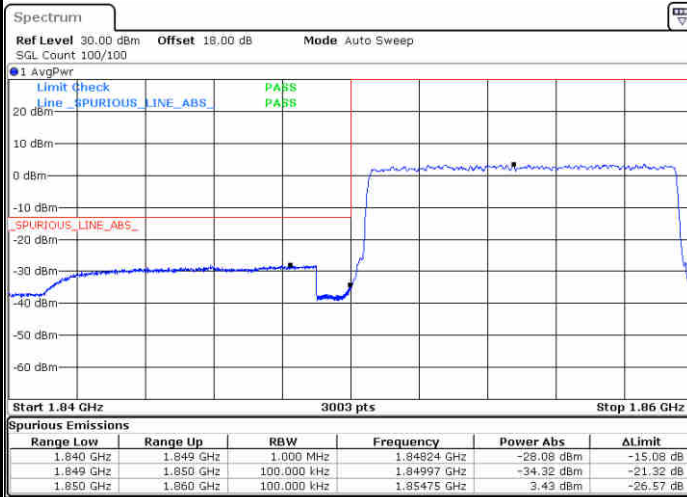
Lowest Band Edge / 1 RB



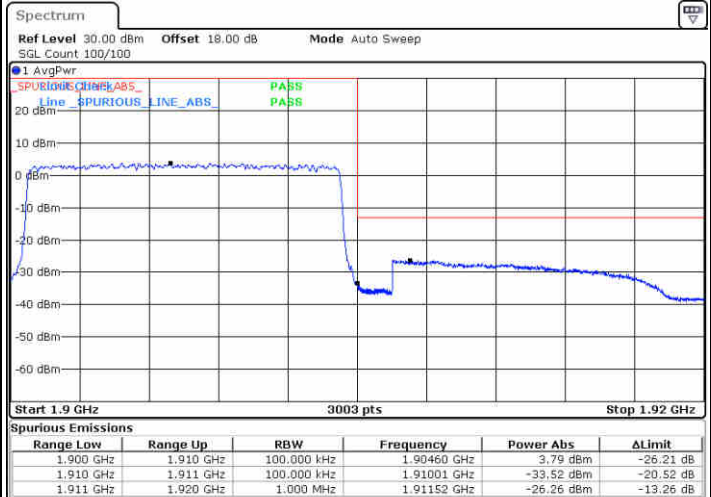
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



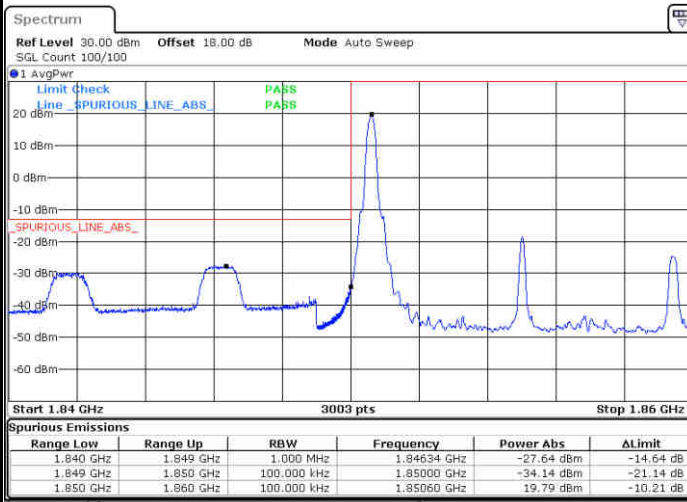
Highest Band Edge / Full RB





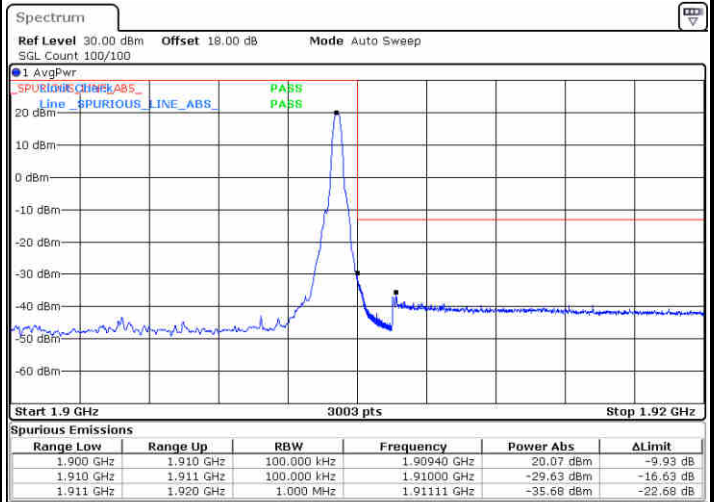
ULCA-2A-13A / PCC(2A) 10MHz / 16QAM

Lowest Band Edge / 1 RB



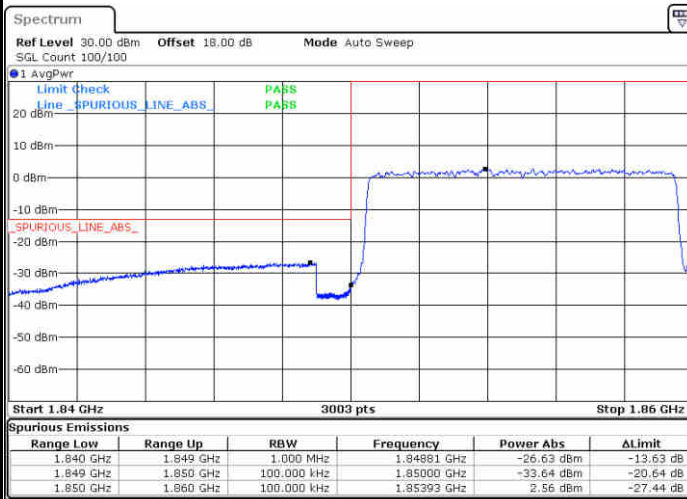
Date: 8.MAR.2020 22:56:49

Highest Band Edge / 1 RB



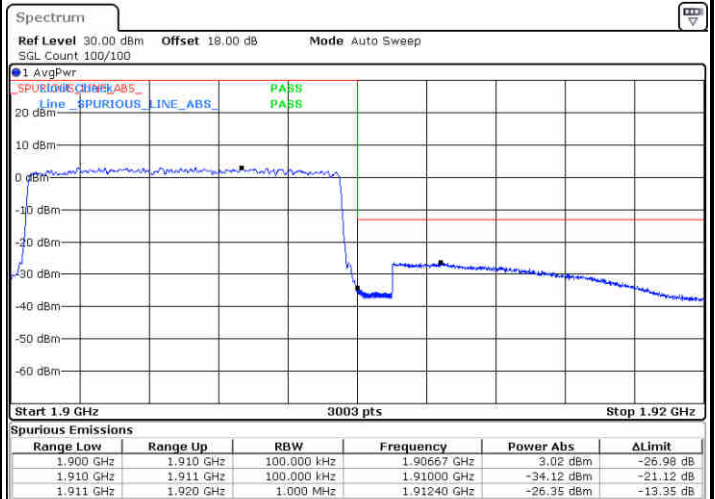
Date: 8.MAR.2020 22:57:58

Lowest Band Edge / Full RB



Date: 8.MAR.2020 22:55:48

Highest Band Edge / Full RB

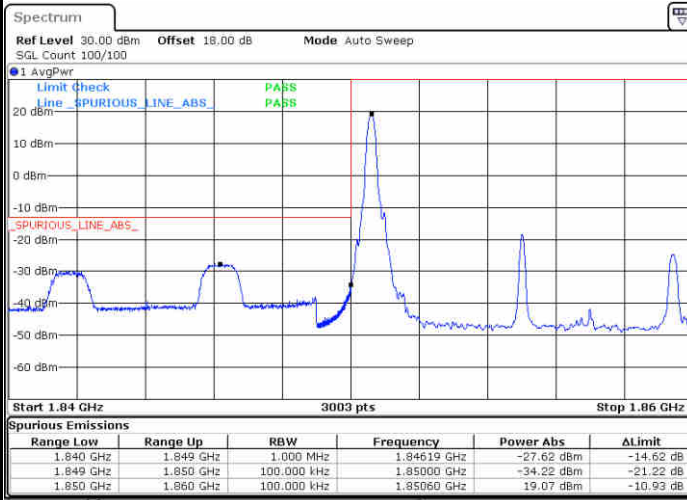


Date: 8.MAR.2020 23:00:00

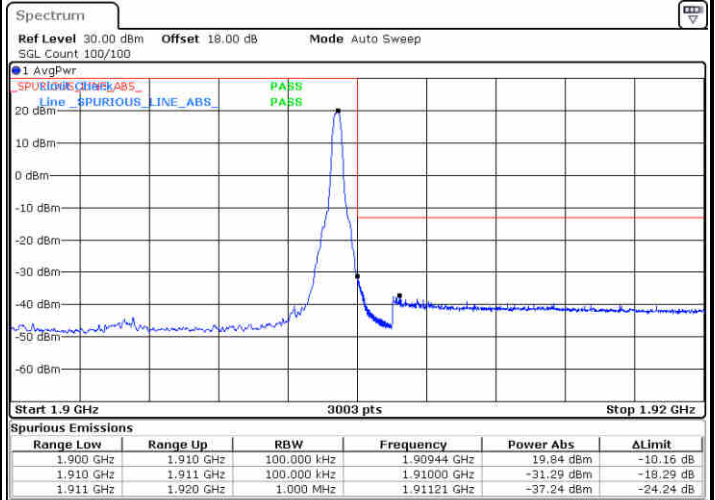


ULCA-2A-13A / PCC(2A) 10MHz / 64QAM

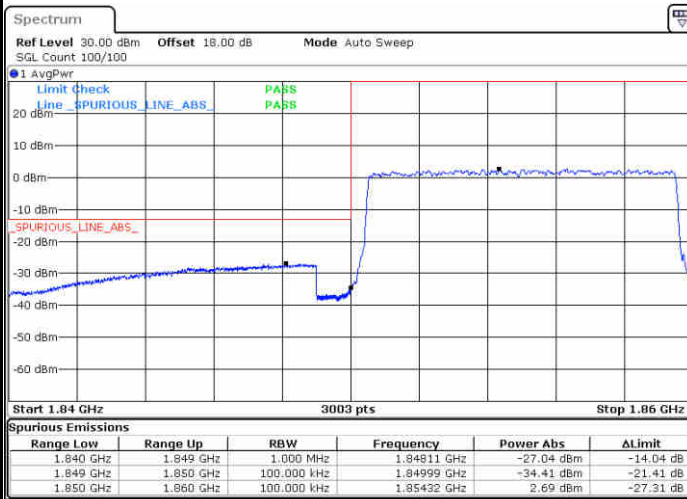
Lowest Band Edge / 1 RB



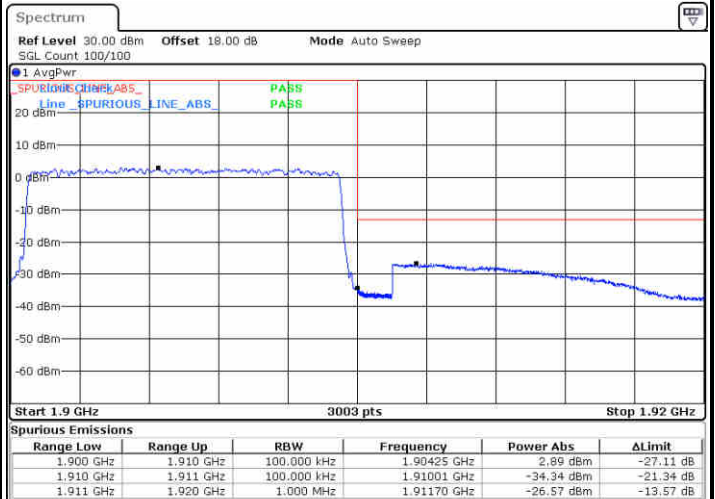
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



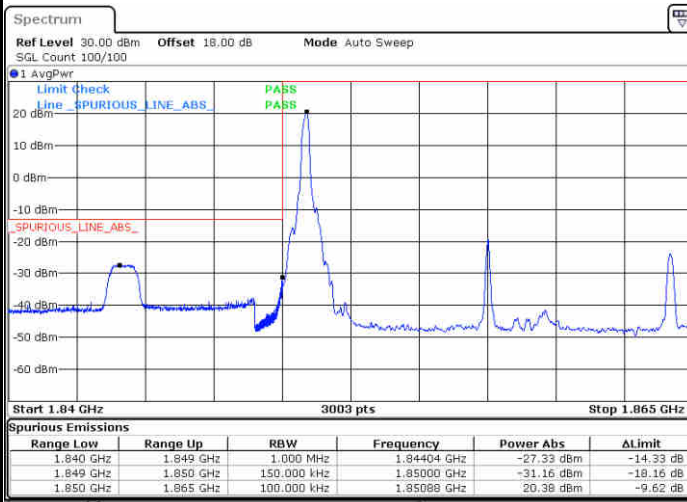
Highest Band Edge / Full RB





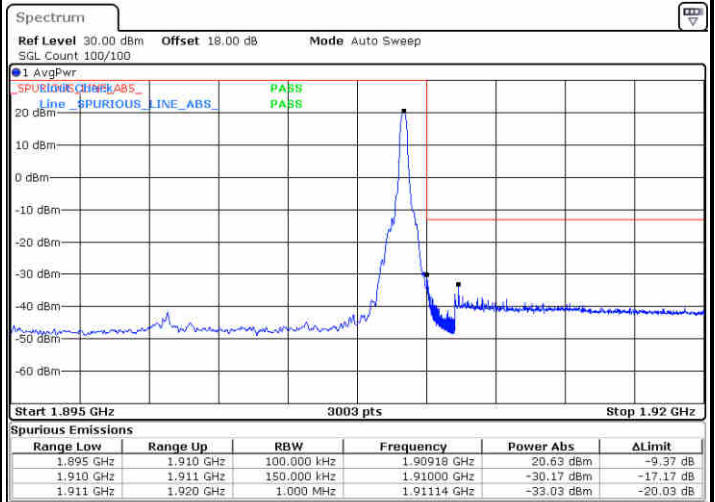
ULCA-2A-13A / PCC(2A) 15MHz / QPSK

Lowest Band Edge / 1 RB



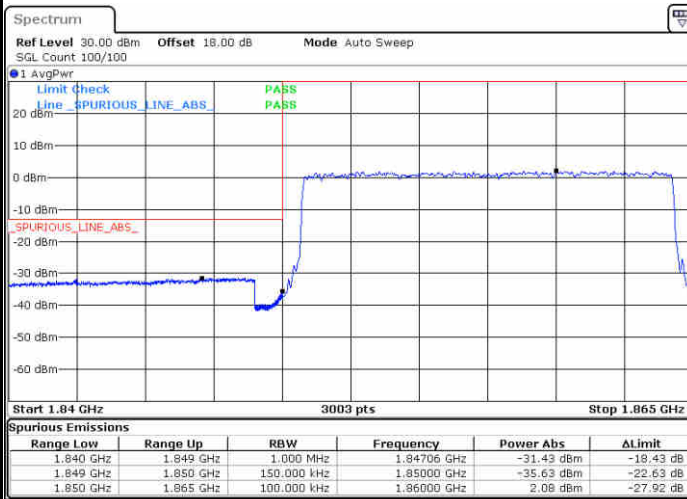
Date: 8.MAR.2020 23:11:34

Highest Band Edge / 1 RB



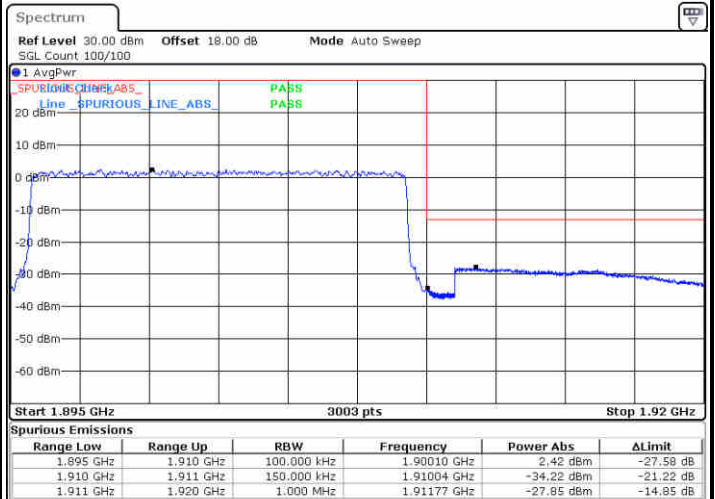
Date: 8.MAR.2020 23:12:14

Lowest Band Edge / Full RB



Date: 8.MAR.2020 23:10:00

Highest Band Edge / Full RB

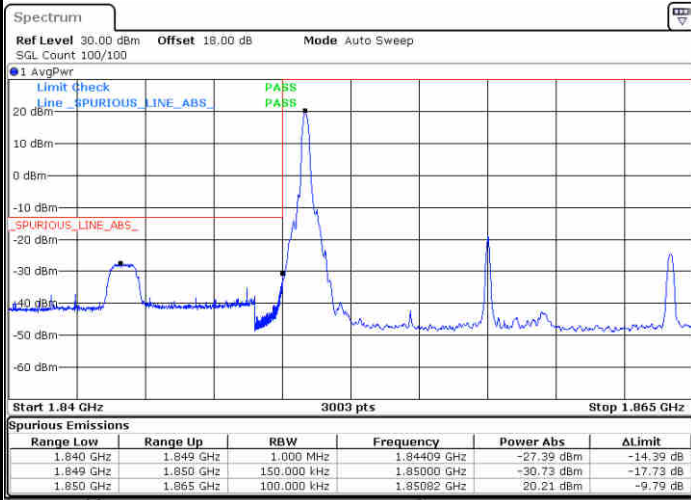


Date: 8.MAR.2020 23:13:36

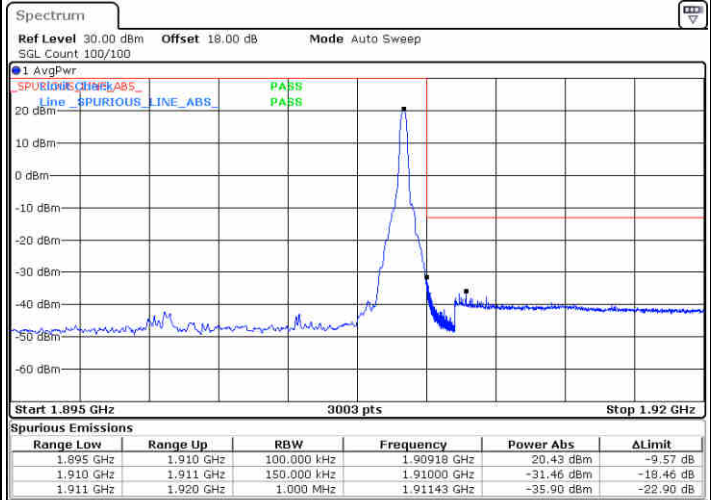


ULCA-2A-13A / PCC(2A) 15MHz / 16QAM

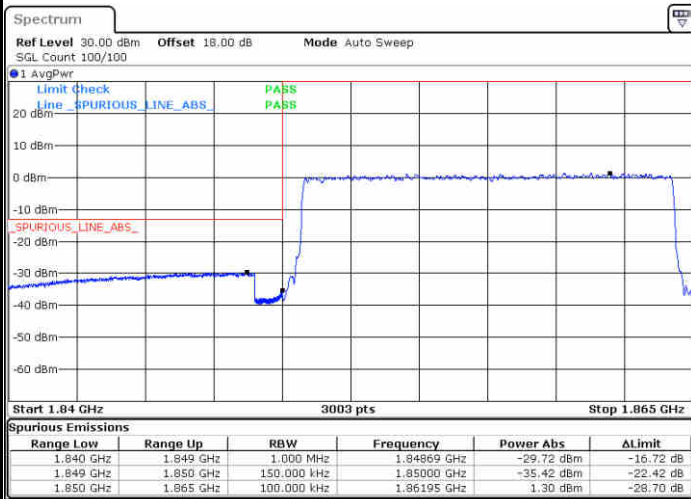
Lowest Band Edge / 1 RB



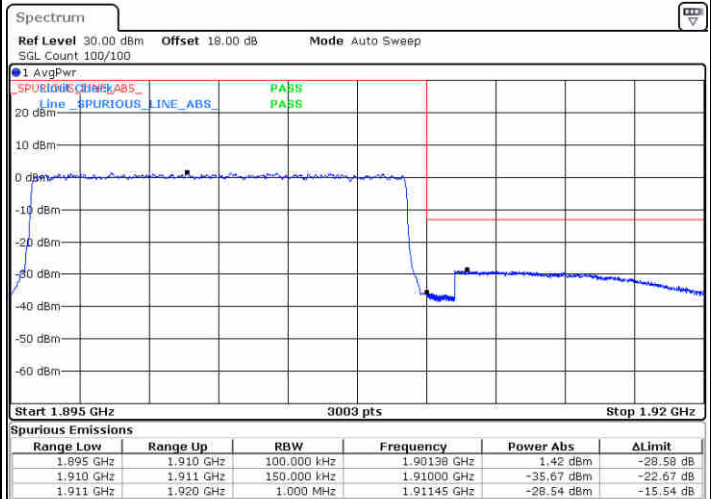
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



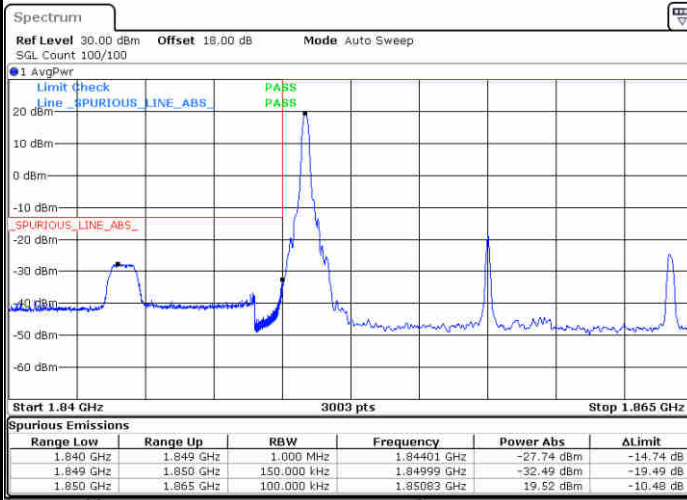
Highest Band Edge / Full RB



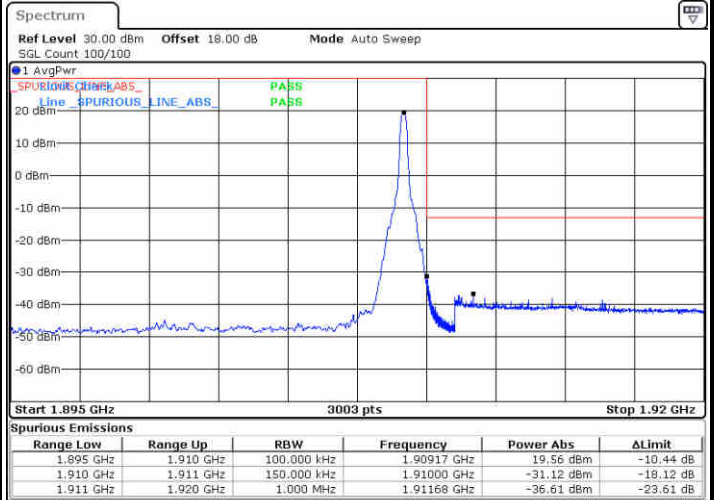


ULCA-2A-13A / PCC(2A) 15MHz / 64QAM

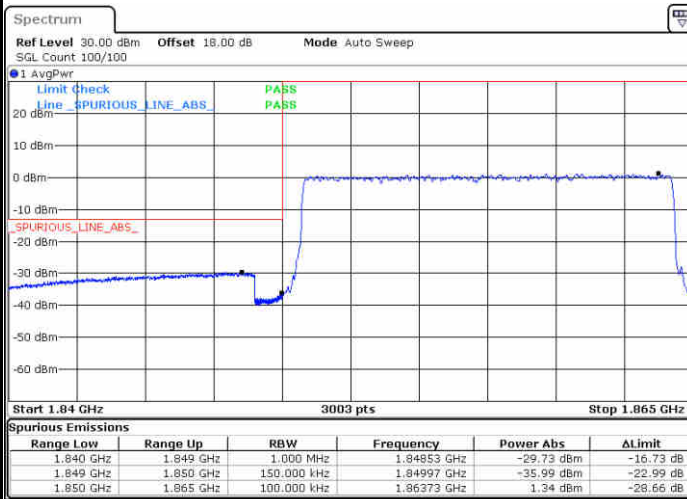
Lowest Band Edge / 1 RB



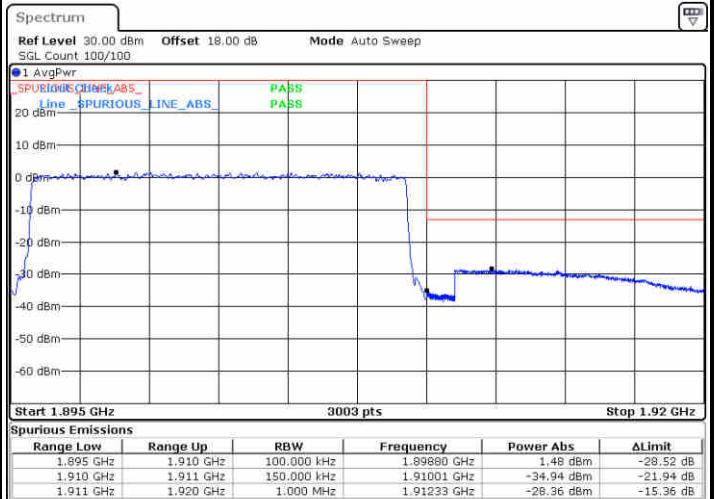
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



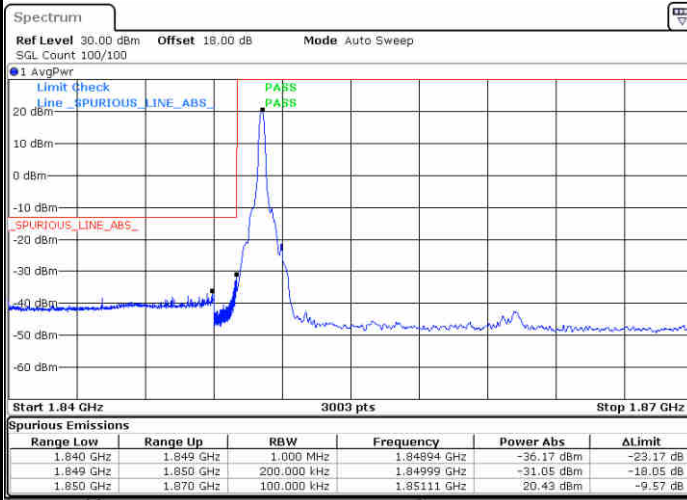
Highest Band Edge / Full RB





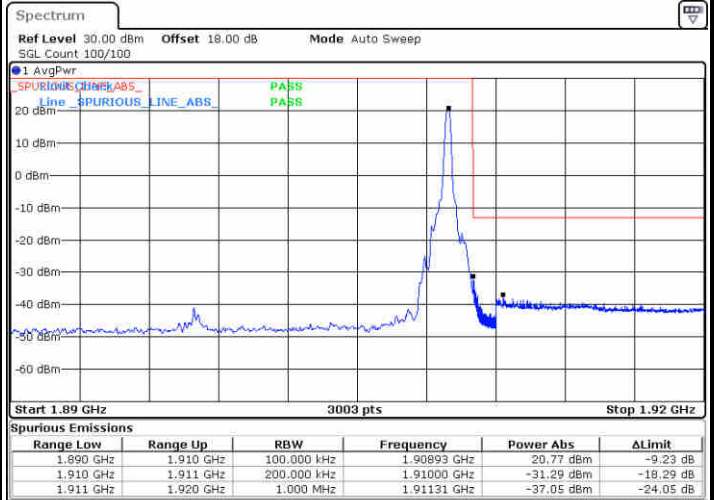
ULCA-2A-13A / PCC(2A) 20MHz / QPSK

Lowest Band Edge / 1 RB



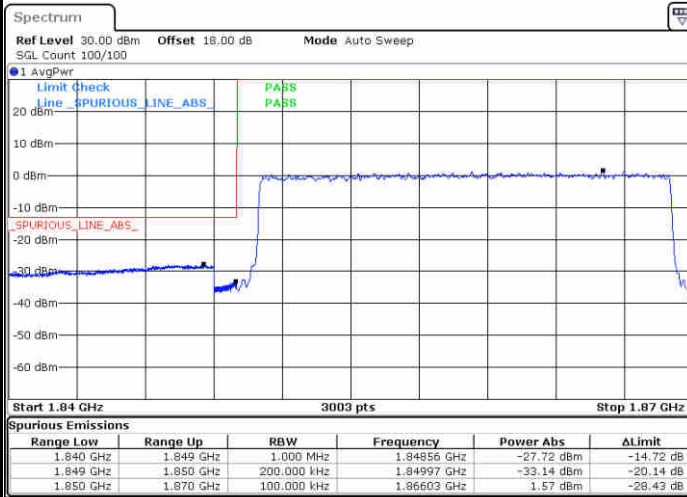
Date: 8.MAR.2020 23:15:55

Highest Band Edge / 1 RB



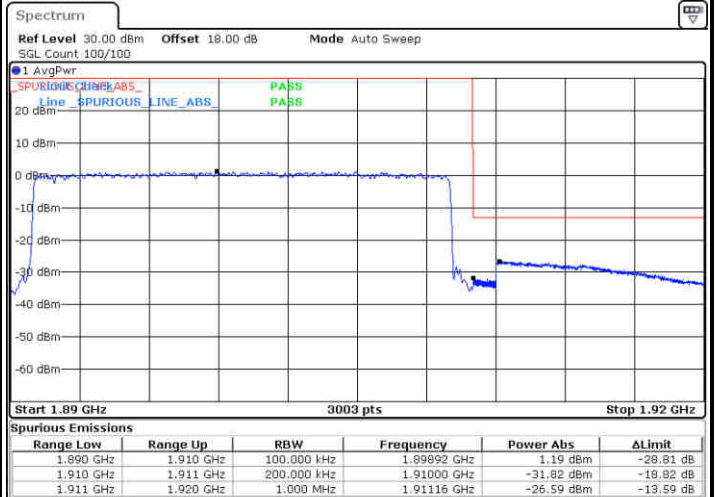
Date: 8.MAR.2020 23:16:28

Lowest Band Edge / Full RB



Date: 8.MAR.2020 23:14:31

Highest Band Edge / Full RB

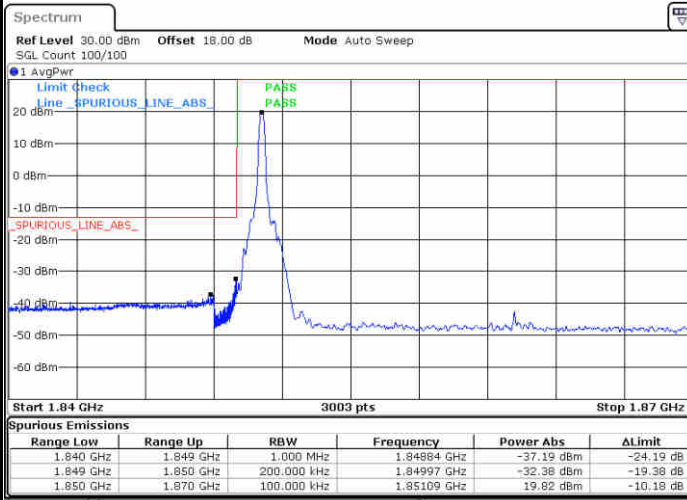


Date: 8.MAR.2020 23:18:13



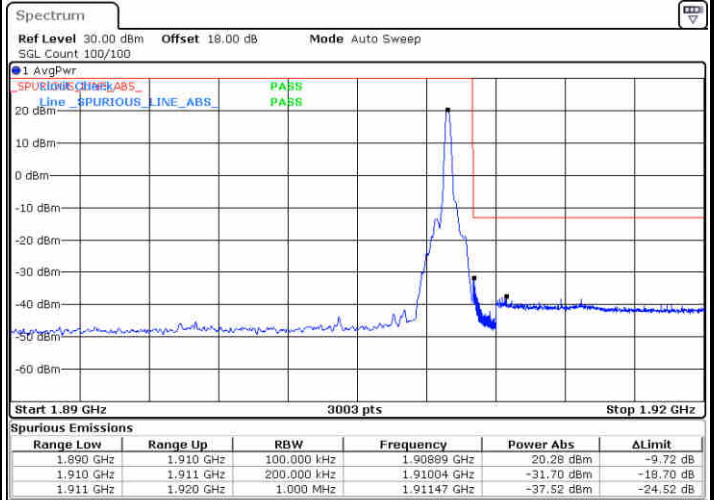
ULCA-2A-13A / PCC(2A) 20MHz / 16QAM

Lowest Band Edge / 1 RB



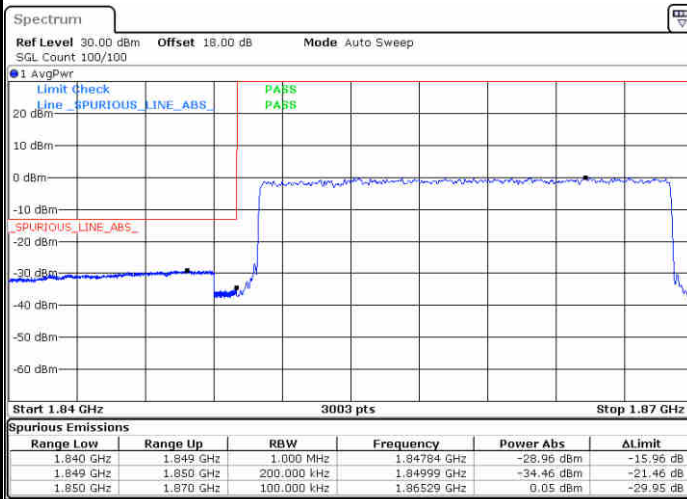
Date: 8.MAR.2020 23:15:41

Highest Band Edge / 1 RB



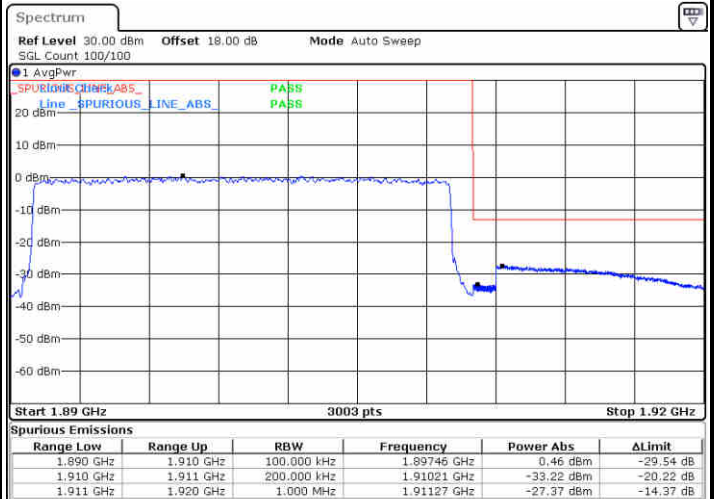
Date: 8.MAR.2020 23:16:45

Lowest Band Edge / Full RB



Date: 8.MAR.2020 23:14:47

Highest Band Edge / Full RB



Date: 8.MAR.2020 23:17:41