

Test report No: NIE: 02515BRCB.004

# **Test report**

## Test and Certification for Citizens Broadband Radio Service (CBRS): 940660 D02 CPE-CBSD Handshake Procedures

Identification of item tested	CBRS CPE-CBSD
Trademark	Baicells
Model and /or type reference	EG7010C-M11
Other identification of the product	FCC ID: 2AG32EG7010CM11
Features	CPE-CBSD with Domain Proxy
Final HW Version:	A
Final SW Version:	Domain Proxy:BaiOMC Rev-18822 CPE-CBSD: BaiCE_BG_1.2.1
Manufacturer	Baicells Technologies Co., Ltd. 3F, Hui Yuan Development Building, No.1 Shangdi Information Industry Base, Haidian Dist., Beijing, PR China, 100085.
Test method requested, standard	940660 D02 CPE-CBSD Handshake Procedures
Approved by (name / position & signature)	Gonzalo Casado (Lab Manager)
Date of issue	2019-Dec-26
Report template No	FDT08_22



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## Competences and guarantees

DEKRA Certification Inc. is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA Certification has a calibration and maintenance program for its measurement equipment.

DEKRA Certification guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated on the report and, it is based on the knowledge and technical facilities available at DEKRA Certification at the time of performance of the test.

DEKRA Certification is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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## General conditions

- 1. This report is only referred to the item that has undergone the test.
- 2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or competent Authorities.
- 3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA Certification.
- 4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA Certification and the Accreditation Bodies.



## Abbreviations

Abbreviation	Meaning
CBRS	Citizens Broadband Radio Services
CBSD	Citizens Broadband Radio Service Device
DP	Domain Proxy
DUT	Device Under Test
SAS	Spectrum Access System
UUT	Unit Under Test
СРІ	Certified Professional Installer
N/A	Not Applicable
SA	Spectrum Analyzer

## Data provided by the client

DEKRA declines any responsibility with respect to the information provided by the client and that may affect the validity of results.

Information provided by the client: HW and SW versions of the equipment under test.

## Usage of samples

Samples undergoing test have been selected by: the client

Sample M/01 is composed of the following elements:

Control Nº	Description	Model	Serial N°	Date of reception
2515b.02	CPE-CBSD	EG7010C-M11	1203000039192TP0950	2019-Dec-17
NA	Domain Proxy Software	BaiOMC	Not Applicable	Not Applicable

1. Sample M/01 has undergone the test(s) specified in subclause "Test method requested".

## Identification of the client

Same as manufacturer

## Testing period and place

	DEKRA Certification Inc
Test Location	405 Glenn Drive, Suite 12, Sterling, Virginia, USA, 20164
Date (start)	2019-Dec-17
Date (finish)	2019-Dec-19

## Document history

<b>Report number</b>	Date	Description	
02515bRCB.004	2019-Dec-26	First release	
		Dana 4 af 24	2010 Dec 20

## Remarks and comments

Testing performed by Gonzalo Casado

Antenna gain is 11dBi



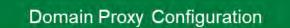


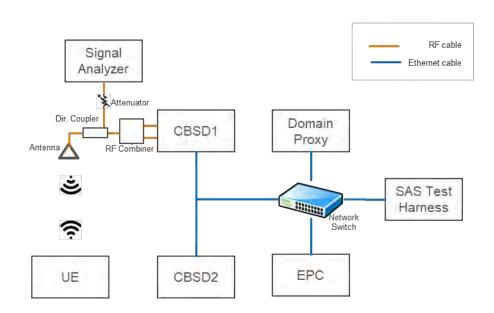
# List of equipment used during the test

Test Equipment				
Description	Description Model Control Number SW Version Serial Numb			
Signal Analyzer	N9010A Agilent EXA	0018	A.12.13	MY47191206
Test SAS Harness	Test SAS harness WInnForum software Test Harness for CBSD	-	V1.0.03	N/A
BTS-CBSD	mBS31001	-	BaiBS_QRTBA_0.3.1_rf_ready	191000004

## Test Setup Diagram







# Testing verdicts

Not applicable :	N/A
Pass :	Р
Fail :	F
Not measured :	N/M

# Test Results Summary

Test Cases Verdicts	Number of Test Cases
Not applicable :	0
Pass :	2
Fail :	0
Not measured :	0
Total Number of Test Cases	2

# DEKRA

# Appendix A: Test results

ID	Description	Verdict	Date	Sample
CPE.KDB.1	CPE Handshake transmissions are limited in duration and duty cycle to the minimum time necessary to get a grant from the SAS; this time should not exceed 1 second within any 10-second period, 10seconds within any 300-second period, or 20 seconds within any 3600- second period	Р	2019-12-18	M/01
CPE.KDB.2	Verify that the CPE-CBSD register with SAS even with transmit power level below 23dBm EIRP	Р	2019-12-18	M/01

Notes:

- Signal Analyzer Screenshots included in appendix D
- Test cases steps described in appendix C

# DEKRA

# Appendix C: Test Cases Details

# • CPE.KDB.1: CPE Handshake transmissions are limited in duration and duty cycle to the minimum time necessary to get a grant from the SAS; this time should not exceed 1 second within any 10-second period, 10seconds within any 300-second period, or 20 seconds within any 3600-second period

Test Case applicable only to CPE-CBSD

#	Test Execution Steps
1	Verify that CPE-CBSD doesn't have any active grant
2	Measure CPE-CBSD transmission durations
3	Verify that CPE-CBDS transmission duration doesn't exceed 1 second within 10seconds, 10 seconds within 300seconds and 20seconds within 3600seconds



• CPE.KDB.2: Verify that the CPE-CBSD register with SAS even with transmit power level below 23dBm EIRP

Test Case applicable only to CPE-CBSD

#	Test Execution Steps	
1	Adjust RF path attenuation between CPE-CBSD and CBSD so that the CPE-CBSD transmit power is below 23dBm EIRP	
2	Execute Power Measurement script from WInnForum software Test Harness for CBSD package	
3	Trigger CPE-CBSD request to register to test SAS	
4	Verify that CPE-CBSD is registered successfully with test SAS and CPE-CBSD transmit power is below 23dBm EIRP using rf equipment.	
5	Trigger CPE-CBSD request to request grant to test SAS	
6	Verify that CPE-CBSD is receives grant successfully from test SAS and CPE-CBSD transmit power is below 23dBm EIRP using rf equipment.	
7	Start Uplink traffic to occupy channel	
8	Measure Uplink Channel Power and verify that it doesn't exceed maxEIRP indicated in grant	



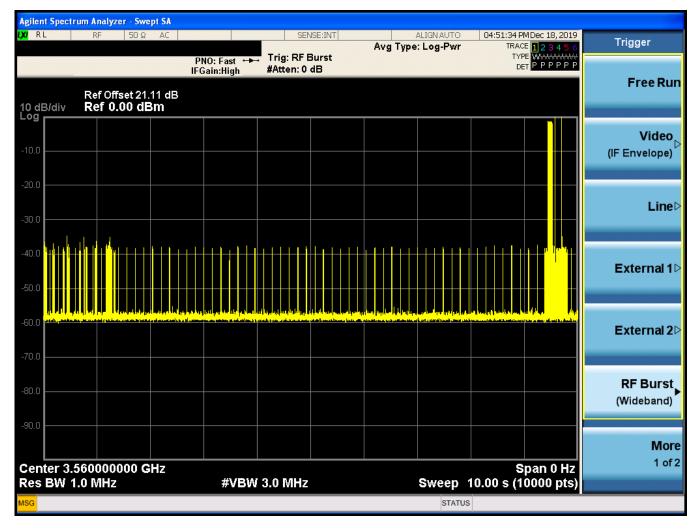
# Appendix D: Spectrum Analyzer Screenshots

1. CPE.KDB1: Results for CPE-CBSD transmission duty cycle without grant

Time Period (s)	Time Limit (s)	DUT Tx Duration Measured (s)	Result
10	1	0.37	PASS
300	10	1.96	PASS
3600	20	5.16	PASS



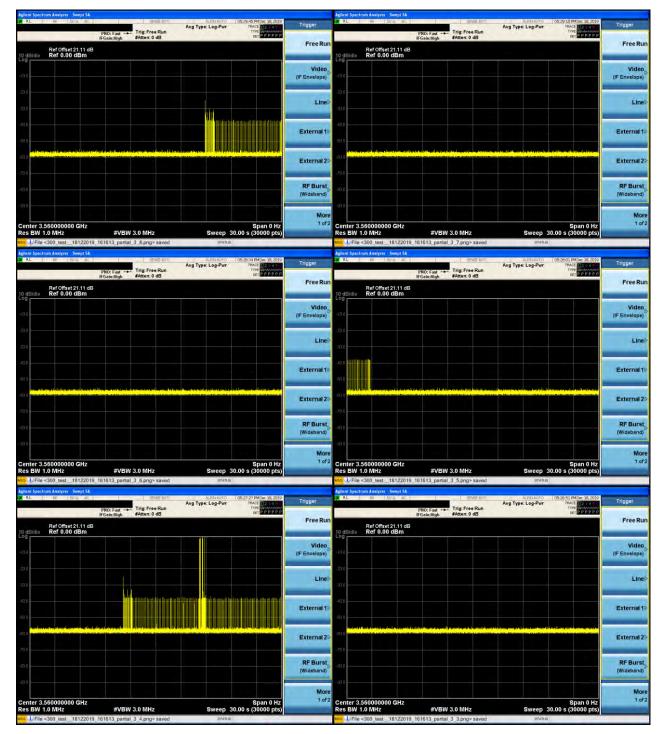
## 1.1. One second within 10 second period





## 1.2. 10 seconds within 300 second period

Note: The 300-period test was measured by doing 10 consecutive automatic sweeps of 30seconds. The value reported is the aggregated time of all the sweeps where signal was detected by the signal analyzer





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## 1.3. 20 seconds within 3600 second period

Note: The 3600-period test was measured by doing 90 consecutive automatic sweeps of 40seconds and 40000 points with a measurement time resolution of 1ms. The value reported is the aggregated time of all the sweeps where signal was detected by the signal analyzer

Agilent Spectrum Analyzer - Swept SA RL RE SDQ RC	SENSE:W1	ALISNAUTO Avg Type: Log-Pwr	08:09:03 PMDec 18, 2019 TRACE 12:3:4 T TVPE	Trigger	Aglient Spectrum Analyzer - Swept SA OF RL RE 50 & AC	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr	08:08:18 PMDec 18, 2019 TRACE R D = 4 PM	Trigger
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Agilent Spectrum Analyzer - Swept SA RL RF 50.0 AC SENSE:///T AUR/AUTO 07:55:15 PMDec 18, 201	9	Agilent Spectrum Analyzer - Swept SA 201 RL RE SD & C SENSE:10/1 AU(31/AU/LO 07:54:29 PMDec 18, 2019	
PNO; Fast → Trig: Free Run IFGain3ligh #Atten:0.dB per port	Trigger	PNO: Fast Trig: Free Run IFGain3ligh #Atten: 0 dB per pop	Trigger
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50.0	External 1D	500	External 1
3.45 March 16 March 1999, et al. 2018, https://doi.org/10.1016/j.com/arch.1016/	External 2	store the second s	External 2
70.0		-70.0	
10.0	RF Burst (Wideband)	-00-	RF Burst (Wideband)
0.0		300	
2enter 3.560000000 GHz Span 0 Hz Res BW 1.0 MHz \$Weep 40.00 s (40000 pts	More 1 of 2	Sparro Hz	Mon 1 of
Res BW 1.0 MHz         #VBW 3.0 MHz         Sweep         40.00 s (40000 pts           VEIe <3600_test18122019_165357_partial_2_70.png> saved         status	2	Res BW 1.0 MHz         #VBW 3.0 MHz         Sweep 40.00 s (40000 pts)           usc         Jy File <3600_test_18122019_165357_partial_2_69.png> saved         \$74106	
gilent Spectrum Analyzer - Swept SA RL RE SUR AC BENE: Nrt ALIGNAUTO 07:53:44 PMDec 18, 201	9 Trigger	Agilent Spectrum Analyzer - Swept SA. URL RE SUR AC SERVENT AURINAUTÓ 07:52:56 PM Dec 18, 2019	Trigger
PNO: Fast → Trig: Free Run IFGaindligh #Atten: 0 dB por PPPP		PNO: Fast ++- Trig: Free Run #Avg Type: Log-Pwr Triver Breath Froandligh #Atten: 0 dB per PPP P	
© dB/dlv Ref 0.00 dBm	Free Run	Ref Offset 21.11 dB Ref 0.00 dBm	Free Ru
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	Line	300	Line
ezo i i i i i i i i i i i i i i i i		40.0	
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	External 2		External 2
		-700	
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	More	300	Mor
enter 3.560000000 GHz Span 0 Hz ees BW 1.0 MHz #VBW 3.0 MHz Sweep 40.00 s (40000 pts	1 of 2		1 of
STATUS STATUS		155 J File <3600_test_18122019_165357_partial_2_67.png> saved status	
glent Spectrum Analyzer         Swept SA           RL         HE         SD (z Ac.)           State         Aug Type: Log-Por           TPACE         Processor	9 Trigger	Agilent Spectrum Analyzer - Swept SA. Sevent - Song - Ac	Trigger
PNO: Fast Trig: Free Run Type IFGaindligh #Atten: 0 dB Det PPPPP	Free Run	PNO: Fast Trig: Free Run Tvy IFGainciligh #Atten: 0 dB per PPPPP	Free Ru
Ref Offset 21.11 dB 0 dB/div Ref 0.00 dBm		Ref Offset 21,11 dB 10 dB/div Ref 0.00 dBm	
00	Video (IF Envelope)	100	Video (IF Envelope)
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	External 10	< 20 Bith <sup>1</sup> (Advantional day, and the Group is made a state of 10 Bit diffed	External 1
	External 1	220	Externel 1
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Center 3.560000000 GHz Span 0 Hz Res BW 1.0 MHz #VBW 3.0 MHz Sweep 40.00 s (40000 pts		Center 3.560000000 GHz Span 0 Hz	1 of
es BW 1.0 MHz #VBW 3.0 MHz Sweep 40.00 s (40000 pts VFile <3600_test_18122019_165357_partial_2_66.prg>saved stAtus		Res BW 1.0 MHz         #VBW 3.0 MHz         Sweep 40.00 s (40000 pts)           Image: JUFile <3600_test_18122019_165357_partial_2_65.png> saved         Status	



Ilent Spectrum Analyzer - Swept SA RL RE 50.0 AC	TENTERIKT	ALISNAUTO	07:50:37 PMDec 18, 2019		Apjlent Spectrum Analyzer - Swept 54.	
	PNO: Fast	Avg Type: Log-Pwr	TRACE 2 2 4 1 TYPE DET PPPPP	Trigger Free Run	PNO: Fast	Free Ru
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0.0				External 20	- 40.0	kternal 2
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				(Wideband)	200	/ideband
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es BW 1.0 MHz	#VBW 3.0 MHz _165357_partial_2_64.png> saved		Span 0 Hz 40.00 s (40000 pts)		Center 3.560000000 GHz         Span 0 Hz           Res BW 1.0 MHz         \$VBW 3.0 MHz         Sweep 40.00 s (40000 pts)           Image: J_Fig. 6860_test_18122019_165357_partial_2_63.prg> saved         struttle	
ilent Spectrum Analyzer – Swept SA RL RE 50 ⊊ AC	SENSE/IVT	AUSNAUTO	07:49:05 PMDec 18, 2019	Trigger	Agitent Spectrum Analyzer Swept S4.         SDIRE/HITT         R, 191,4070         07/48:20 PM Get 18, 3339           28         R.L         RE         SDIRE/HITT         R, 191,4070         07/48:20 PM Get 18, 3339           28         R.L         RE         SDIRE/HITT         R, 191,4070         07/48:20 PM Get 18, 3339	igger
	PNO: Fast Trig: Free Run IFGain:High #Atten: 0 dB	Avg Type: Log-Pwr			PNO: Fast Trig: Free Run 1976 IFGain:High #Atten: 0 dB DET P.P.P.P.P.P.P.P.P.P.P.P.P.P.P.P.P.P.P.	
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				External 20		ternal
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es BW 1.0 MHz	#VBW 3.0 MHz _165357_partial_2_62.png> saved		40.00 s (40000 pts)		Res BW 1.0 MHz         #VBW 3.0 MHz         Sweep 40.00 s (40000 pts)           Mod Jy File <3600_test_18122019_165357_partial_2_61.png> saved         stratus	
RL RE 50 g AC	SENSE:INT	ALISNAUTO	07:47:33 PMDec 18, 2019	Trigger	Agilant Spectrum Analyzer - Swept SA 27 RL NF 50.2 AC SEVERINT ALIMIANTO 07:46-47 PMDec 18, 2019	igger
	PNO: Fast Trig: Free Run IFGain:High #Atten: 0 dB	Avg Type: Log-Pwr	TRACE		PNO: Fast	
Ref Offset 21.11 dB				Free Run	Ref Offset 21.11 dB 10 dB/div Ref 0.00 dBm	Free R
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enter 3.560000000 GHz			Span 0 Hz 40.00 s (40000 pts)	1 of 2	Center 3.560000000 GHz Span 0 Hz Res BW 1.0 MHz #VBW 3.0 MHz Sweep 40.00 s (40000 pts)	



gilent Spectrum Analyzer - Swept SA RL RE Sing & SSNSE-Dirti AutoNAUTO 07/46/01 PMCac 18.2	200	Agilent Spectrum Analyzer - Swept SA 201 RL RE SD & AC SENSE:0177 AUR/AU/CO 07:45:14 PMDec 18, 2019	
EL 195 5019 50 PHO:Fast →→ FRO:Fast Atten:0 40 FRO:Fast →→ FRO:Fast Atten:0 40 FRO:Fast	P P	0 RL 195 509 €C	Trigger
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10	(Wideband)	800	(Wideband
enter 3.560000000 GHz Span 0	More 1 of 2	Center 3.56000000 GHz Span 0 Hz	Mo 1 o
enter 3,56000000 GHz Span 0 es BW 1.0 MHz #VBW 3.0 MHz Sweep 40.00 s (40000 p 	its)	Center 3.560000000 CHz         Span 0 Hz         Span 0 Hz           Res BW 1.0 MHz         \$Weep 40.00 s (40000 pts)         \$Weep 40.00 s (40000 pts)           Stress of the stress of	
ilent Soectrum Analyzer - Swept SA	2019	Agilent Spectrum Analyzer - Swept SA	
AL         Image: State state         State state state         Approximation         Off-Add 30 Mode state           PHOL: Fast		PNO: Fast Trig: Free Run IFGainzligh #Atten: 0 dB per Port	Trigger
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		-800	-
enter 3.560000000 GHz Span 0	Hz 1 of 2	Center 5.56000000 GHZ Span 0 HZ	Mc 1 c
25 BW 1.0 MHz #VBW 3.0 MHz Sweep 40.00 s (40000 p 2 J/File <3600_test_18122019_165357_partial_2_56.png> saved stratue	its)	Res BW 1.0 MHz         #VBW 3.0 MHz         Sweep         40.00 s (40000 pts)           used         J/File <3600_test_18122019_165357_partial_2.55 png> saved         stratus	
RL         RE         50 (2 - 36)         SENECTIVIT         AUDIAUTO         07:42:38PMDec18; 2; 3           RL         RE         50 (2 - 36)         Avg Type; Log-Pwr         TimACE	019 Trigger	Agilent Spectrum Analyzer Swept S4. Spectrum Analyzer Swept S4. Spectrum Analyzer S 007-42-11 PM Over 18, 2019 24 R.L. 195 S012 Ac. Spectrum Analyzer Move 18, 2019 Aug Type: Log-Pwr Move 18, 2019	Trigger
RL         Image: Strip - KC         Strip - KC         Strip - KC         Augr (Mode)         Augr (Mode) <t< td=""><td>P P Free Run</td><td>PNO: Fast Ing: rree Run IFGain:Iligh #Atten: 0 dB DET PPPPP</td><td>FreeR</td></t<>	P P Free Run	PNO: Fast Ing: rree Run IFGain:Iligh #Atten: 0 dB DET PPPPP	FreeR
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	External 1D	-500	Externa
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		-70.0	
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25 BW 1.0 MHz #VBW 3.0 MHz Sweep 40.00 s (40000 p		Res BW 1.0 MHz         #VBW 3.0 MHz         Sweep         40.00 s (40000 pts)           Image: U_File <3600_test_18122019_165357_partial_2_53.png> saved         374106	



gitent Spectrum Analyzer - Swept SA RL RE SD 9 AC SENSE: N/T	ALISNAUTO 07:41:26 PMDec 18, 201	10	Agilent Spectrum Analyzer - Swept SA 24 RL RE 50 @ #C SENSE 101 #UISTAUTO 07:40-38 PMDec 18, 2019	
PNO: Fast Trig: Free Run IFGain:Iligh #Atten: 0 dB	Avg Type: Log-Pwr TRACE TOPE 4 TYPE Det DOP P 0	l rigger	Avg Type: Log-Pwr TRACE DEFORM PNO: Fast Trig: Free Run IFGaindligh #Atten: 0 dB per PDP PD	Trigger
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700		External 20	700	External 2
00		RF Burst	-0.0	RF Burst
90.0		(Wideband)	300	(Wideband)
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Center 3.560000000 GHz tes BW 1.0 MHz #VBW 3.0 MHz	Span 0 H Sweep 40.00 s (40000 pts status	z s)	Center 3.560000000 GHz Span 0 Hz Res BW 1.0 MHz \$VEW 3.0 MHz Sweep 40.00 s (40000 pts) Complex 2000 test_18122019_165357 partial_2.51 png-saved \$1000 bits	
nt JFile <3600_test18122019_165357_partial_2_52,png> save gitent Spectrum Analyzer - Swept SA			Agilent Spectrum Analyzer - Swept SA	
RL RF 50 Q AC SEVENIT PND: Fast Trig: Free Run IFGain:tligh #Atten: 0 dB	ALISHAUTO 07:39:53 PMDec 18, 201 Avg Type: Log-Pwr TRACE TP 6 TYPE DET PP PP	19 Trigger	02 8L 85 500 8C 999520m 4104400 073907900€ 18:00 PN0: East →→ Trg: Free Run Avg Type: Log-Par Two PN0: East →→ Trg: Free Run AB core PPP PT	Trigger
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So JFile <3600_test18122019_165357_partial_2_50.png> save glent Spectrum Analyzer - Swept SA	ed status		J. File <3600_test_18122019_t65357_partial_2_49.png> saved         statue           Aglient Spectrum Analyzer - Swept SA	_
RL RE Solo AC SEME:IMT PNO:Fast Trig:Free Run IFGain:tligh #Atten: 0 dB	AUGNAUTO 07:38:19 PMDec 18, 201 Avg Type: Log-Pwr TRACE TP d TYPE DET PP PP	19 Trigger	KL 195 500 €C      9992300      40140400      0732300M0cc 18,000     PN0: East →→     Trig: Free Run     Free Run	Trigger
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CS DW 10 WH2 #VDW 3.0 WH2 JFile <3600_test18122019_165357_partial_2_48.png> save		201 - C	Res BW 10 Min2         #VEV 30 Min2         Sweep 40.00 \$ (40000 pts)           MSS J/ File <3600_test18122019_165357_partial_2_47.png> saved         Status	-



Rt         Street Street         Street Street         Aurovation         07:36-44 PMDec 18, 2019           RL         RF         Street Street         Aurovation         07:36-44 PMDec 18, 2019	1	Agilent Spectrum Analyzer - Swept SA 201 RL RE SD 2 AC SENSE WITT AURIVAUTÓ 07:55:58 PMDec 18, 2019	
PNO: Sast Trig:Free Run IFGaindligh #Atten: 0 dB vor DPPP	Trigger Free Run	Avg Type: Log-Pwr TPACE DEPENDENT PNO: Fast Trig: Free Run IFGainHigh Akten: 0 dB per Dependent	Trigger Free Ru
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J. File <3600_test_18122019_165357_partial_2_46.png> saved.     stAtUs  lem Spectrum Analyzer - Swept SA		لا 1/2003 لا 1/2003 لا 1/2004 لا 1/2005 ل المالية المالية	_
RL RE SUR AC SENSE: INTI AUGUAUTO 07:35:12 PMDec 18, 2019	Trigger	AVER AL RESDER AC SENSE: WITH AUGUAUTO 07:34:25 PMDec 18, 2019 Avg Type; Log-Pwr TRACE TRACE	Trigger
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nter 3.56000000 GHz Span 0 Hz	1 of 2	Center 3.56000000 GHz Span 0 Hz	1
Is BW 1.0 MHz         #VEW 3.0 MHz         Sweep 40.00 s (40000 pts)           UFI0<3600_test_18122019_165357_partial_2_44.png> saved         StATUS		Res BW 1.0 MHz         #VBW 3.0 MHz         Sweep         40.00 s (40000 pts)           Inscription         JJ_Flid < 3600_test_18122019_165357_partial_2_43.png> saved         314108	
ent Spectrum Analyzer - Swept SA RL RE 50.0 AC SENSE1011 AUGUAUTÓ 07:33:40 PMDec 18, 2019		Agileni Spectrum Analyzer - Swept SA. 2011 RL RE 5012 AC SENSE:01/11 AURIVAUTÓ 07:32:53 PM Dec 18, 2019	
PNO: Fast	Trigger	PNO:Fast ↔→ Trig:Free Run Your Stype: Log-Pwr Your Stype: Solution Streem Photometer Statemeter Streem Photometer Stree	Trigger
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JFile <3600_test_18122019_165357_partial_2_42.png> saved status		HIS DF 110 1112 # DD 30 1112 0100 1 10000 1 1000 1 1000 1 1000 1 1000 1	



gilent Spectrum Analyzer - Swept SA	SENSEINT	ALISNAUTO	07:32:08 PMDec 18, 2019		Agilent Spectrum	RE SUR AC		SEMSE: NOT	ALPNAUTO	07:31:20 PMDec 18, 2019	
PNO: Fast ++- IFGain:High	Trig: Free Run #Atten: 0 dB	Avg Type: Log-Pwr					PNO: Fast 并 IFGain:High	Trig: Free Run #Atten: 0 dB	Avg Type: Log-Pwr	TRACE 12 24 1 TYPE WARDANIA DET P P P P P	Trigger
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Res BW 1.0 MHz #VBW 3 File <3600_test_18122019_165357_partial		Sweep 4	0.00 s (40000 pts)	10	Res BW 1.0			3.0 MHz al_2_39.png> saved		.00 s (40000 pts)	
glient Spectrum Analyzer - Swept SA RL RE 50 g AC	SENISE: JIVT	ALIENAUTO	07:30:35 PMDec 18, 2019	Trigger	Agilent Spectrus	RE SUG AC		SENSE: INT	ALISNAUTO	07:29:46 PMDec 18, 2019	Trigger
PNO: Fast ++	Trig: Free Run #Atten: 0 dB	Avg Type: Log-Pwr					PNO: Fast 🔶 IFGain:High	Trig: Free Run #Atten: 0 dB	Avg Type: Log-Pwr	TRACE 12 - 4 - 1 TVPE WAAR AND DET P P P P P P	
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es BW 1.0 MHz #VBW 3 File <3600_test_18122019_165357_partial		Sweep 4	0.00 s (40000 pts)		Res BW 1.0			3.0 MHz al_2_37.png> saved		.00 s (40000 pts)	_
jilent Spectrum Analyzer - Swept SA RL RE 50 & AC	SENSE: JIVT	ALISNAUTO Avg Type: Log-Pwr	07:29:00 PMDec 18, 2019	Trigger		RE SDQ RC		SENSE:IVT	ALISNAUTO Avg Type: Log-Pwr	07:28:14 PMDec 18, 2019	Trigger
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ua				-							
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es BW 1.0 MHz #VBW 3 JFile <3600_test18122019_165357_partial		Sweep 4	0.00 \$ (40000 pts)	1000 A	Res BW 1.0			3.0 MHz al_2_35.png> saved		00 S (40000 pts)	



Ilent Spectrum Analyzer - Swept SA RL RE 50.9 AC	9949-11/1	ALISNAUTO	07:27:27 PMDec 18, 2019		Agilent Spectrum	Analyzer - Swept SA RE 50 Q RC		SENSEINT	ALISNAUTO	07:26:39 PMDec 18, 2019	
	PNO: Fast	Avg Type: Log-Pwr	TRACE				PNO: Fast → IFGain:High	Trig: Free Run #Atten: 0 dB	Avg Type: Log-Pwr		Trigger
Ref Offset 21.11 dB dB/div Ref 0.00 dBm				Free Run	10 dB/div	tef Offset 21.11 dB tef 0.00 dBm					Free Rur
a0				Video (IF Envelope)	-10.0						Video (IF Envelope)
a											
a a				Line	-30.0						Line
n.i.				External 1Þ	-40,0						External 1
0.0				External to	-50.0						External
				External 20	-80,0						External 2
20.				RF Burst,	-/00						RF Burst
00				(Wideband)	-00						(Wideband)
enter 3.560000000 GHz			Shan 0 Hz	More 1 of 2	Contor 3 550	0000000 GHz				Span 0 Hr	Mon
es BW 1.0 MHz	#VBW 3.0 MHz	Sweep 4	Span 0 Hz 40.00 s (40000 pts)	-	Res BW 1.0	MHz		13.0 MHz al_2_33.png> saved		Span 0 Hz 0.00 s (40000 pts)	-
ilent Spectrum Analyzer - Swept SA RL RE 50 & 40	SENSE: IV/T	ALISNAUTO	07:25:54 PMDec 18, 2019		Agilent Spectrum	Analyzer - Swept SA RE SD Q AC		SENSE:INT		07:25:07 PMDec 18, 2019	
	PNO: Fast	Avg Type: Log-Pwr		rigger			PNO: Fast IFGain:High	Trig: Free Run #Atten: 0 dB	Avg Type: Log-Pwr	07:25:07 PMDec 18, 2019 TRACE 12 4 1 TVPE DET P P P P P	Trigger
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		In the other second	and the second in the object of the	External 20	-80,0		and the second	A DELLAR DAL MORE CONTRA		And can be more the	External 2
10				RF Burst,	-/00						RF Burst
10				(Wideband)							(Wideband)
enter 3.560000000 GHz			Span 0 Hz	More 1 of 2	Center 3 56	0000000 GHz				Span 0 Hz	Mon 1 of:
es BW 1.0 MHz	#VBW 8.0 MHz 165357_partial_2_32.png> saved		40.00 s (40000 pts)	10 A	Res BW 1.0	MHz		3.0 MHz al_2_31.png> saved		0.00 s (40000 pts)	
illent Spectrum Analyzer - Swept SA RL RE SD @ RC	SENSE: INT	ALISNAUTO	07:24:20 PMDec 18, 2019		Agilent Spectrum	Analyzer - Swept SA		SENSEDINT	ALISNAUTO	07:23:34 PMDec 18, 2019	-
	PNO: Fast ++- Trig: Free Run IFGain:High #Atten: 0 dB	Avg Type: Log-Pwr	TRACE	ingger			PNO: Fast ++ IFGain:High	Trig: Free Run #Atten: 0 dB	Avg Type: Log-Pwr		Trigger
Ref Offset 21.11 dB				Free Run	10 dB/div R	tef Offset 21.11 dB Ref 0.00 dBm					Free Ru
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no				RF Burst,	-70.0						RF Burst,
00				(Wideband)	-300						(Wideband)
				More							Mon 1 of:
enter 3.560000000 GHz			Span 0 Hz 40.00 s (40000 pts)	1 of 2	Contor 2 Fee	0000000 GHz				Span 0 Hz 0.00 s (40000 pts)	



Inni Spectrum Analyzer - Swept SA RL IRE SD & AC SENSE:0//T AUR/AU/TO 07:22:48 PMDec 18, 201	19	Agilent Spectrum Analyzer - Swept SA 00 RL RE SU	
PNO: East Trig: Free Run IFGaindligh #Atten: 0 dB pct Ppp P	Trigger	PNO: Fast Trig: Free Run IFGainstigh #Atten: 0 dB DET DEP PP PP	Trigger Free Ru
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D	Line	300	Lin
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	External 20		External
	RF Burst		RFBur
	(Wideband)	-100	(Wideban
	More	300	M
nter 3.56000000 GHz Span 0 H s BW 1.0 MHz #VBW 3.0 MHz Sweep 40.00 s (40000 pts		Center 5.50000000 GHZ Spair 0 HZ	1 -
Image: SW 1.0 MHz         #VEW 3.0 MHz         Sweep         40.00 s (40000 pts           Image: Status         JFIIe < 3600_test_18122019_165357_partial_2_28.png> saved         Status	s)	Res BW 1.0 MHz         #VBW 3.0 MHz         Sweep         40.00 s (40000 pts)           Image: Up File <3600_test_18122019_165357_partial_2_27.png> saved         Status	
ient Spectrum Analyzer - Swept SA	10	Aglient Spectrum Analyzer - Swept SA	
RL RE 500 4C SUBJECT AUGUSTO OF22110 PMC0; B3:07 PHO; Fast	Trigger	PI0: Fac         2004/2011         4201/401/0         07/2020/P00/e8.009           PI0: Fact ++         Frig: Free Run         Avg Type: Log-Pwr         Pvo: Fact ++           FGGateBigh         Atten: 0.08         0.09         Pvo: Fact ++	Trigger
	Free Run		Free R
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		300	
	External 1D	40.0	External
		50.0	
	External 20		External
u		-700	
α	RF Burst (Wideband)	-100	(Wideban
u	(widebarite)	300	(Wisebalt
	More 1 of 2		M
enter 3.56000000 GHz Span 0 H: ss BW 1.0 MHz #VBW 3.0 MHz Sweep 40.00 s (40000 pts	2	Center 3.560000000 GHz         Span 0 Hz           Res BW 1.0 MHz         #VBW 3.0 MHz         Sweep 40.00 s (40000 pts)	
JFile <3600_test_18122019_165357_partial_2_26.png> saved STATUS		LCC JFile <3600_test_18122019_165357_partial_2_25.png> saved STATUS	
RL         IRE         Solid         Solid         Automatic         07:19:44 PMDec 18; 201           RL         IRE         Solid         Automatic         07:19:44 PMDec 18; 201         Avg Type: Log-Pwr         TexcE [] 21:33	19 Trigger	Agitent Spectrum Analyzer         Swept SA           OR         RL         RE         SD R         According to the second se	Trigger
PNO: Fast -++ Trig: Free Run IFGaladiligh #Atten: 0 dB pct PDP 0 PD 0 dB pct PDP PD		PNO: Fast Trig: Free Run Der PPPPP	Eres D
Ref Offset 21.11 dB dB/div Ref 0.00 dBm	Free Run	10 dB/dlv Ref 0.00 dBm Log − − − − − − − − − − − − − − − − − − −	FreeR
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nter 3.56000000 GHz Span 0 H s BW 1.0 MHz #VBW 3.0 MHz Sweep 40.00 s (40000 pts	Z More	Center 3,560000000 GHz Span 0 Hz Res BW 1.0 MHz ≇VBW 3.0 MHz Sweep 40.00 s (40000 pts)	1 0



RE RE SUG AC	FENSE: NOT	ALPNAUTO	07:18:10 PMDec 18, 2019		Agilent Spectrum Analyzer - Swept S	54	SENSENINT	ALISNAUTO	07:17:23 PMDec 18, 2019	
	t Trig: Free Run jh #Atten: 0 dB	Avg Type: Log-Pwr	TRACE			PNO: Fast Tr IFGain:High ##	ig: Free Run itten: 0 dB	Avg Type: Log-Pwr		Trigger
Ref Offset 21.11 dB dB/div Ref 0.00 dBm				Free Run	Ref Offset 21.11 10 dB/div Ref 0.00 dBm	dB				Free Ru
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an				Line	.30.0					Line
ao					-30.0					
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a d					-70.0					-
10				RF Burst (Wideband)						RF Burst (Wideband)
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enter 3.560000000 GHz			Span 0 Hz	More 1 of 2	Center 3.560000000 GHz				Span 0 Hz	Mor 1 of
es BW 1.0 MHz #	/BW 3.0 MHz		Span 0 Hz 0.00 s (40000 pts)	10 A	Res BW 1.0 MHz	#VBW 3.0			Span 0 Hz .00 s (40000 pts)	
G JFile <3600_test18122019_165357	parea_z_zz,png* saved				Agilent Spectrum Analyzer - Swept S	54	_z1.png> saved			
	RL HE 500 KC Determin AUDIAUTO (272438) PNO: Feat →→ Trig: Free Run Avg Type: Log-Pwr Tw IF Gaindingh Addem:0 dB D	07:16:38 PMDec 18, 2019 TRACE 2 4 1 TVPE 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Trigger	CN RL RE SUR A		ig: Free Run	Avg Type: Log-Pwr	07:15:52 PMDec 18, 2019 TRACE 12 4 5 TVPE 000000000000000000000000000000000000	Trigger	
	jh #Atten:0 dB		DET GERLAND	Free Run	Ref Offset 21.11	PNO: Fast To IFGain:High #4	tten:0dB		DET	Free Ru
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enter 3.560000000 GHz es BW 1.0 MHz #	BW 3.0 MHz	Sweep 40	Span 0 Hz 0.00 s (40000 pts)	1 of 2	Center 3.56000000 GHz Res BW 1.0 MHz	#VBW 3.0	MHz	Sweep 40	Span 0 Hz .00 s (40000 pts)	1 of
J. File <3600_test18122019_165357      Jlent Spectrum Analyzer - Swept SA	partial_2_20.png> saved	STATUS	_		MSG JFile <3600_test_1812 Agilent Spectrum Analyzer - Swept 3		_19.png> saved	STATUS		
RL RE SUG AC	SENSE INT	ALISNAUTO Avg Type: Log-Pwr	07:15:07 PMDec 18, 2019 TRACE 1 2 4 4 1 TYPE WAARANA DET P P P P P	Trigger	CM RL RE SDQ A	c	SENSE INT	ALIGNAUTO Avg Type: Log-Pwr	07:14:19 PMDec 18,2019 TRACE 12 2 4 1 TVPE WWWWWWWW DET P P P P P P	Trigger
	t 🛶 Trig: Free Run jh #Atten: 0 dB		DET PPPPP	Free Run		IFGain:High ##	ig: Free Run tten: 0 dB		DET PPPPP	Free Ru
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10				(Wideband)	>00					(Wideband)
n				More	-30.0					Mor
enter 3.560000000 GHz			Span 0 Hz ).00 s (40000 pts)		Genter 3.30000000 GH2	:			Span 0 Hz .00 s (40000 pts)	1 of
es BW 1.0 MHz #	BW 3.0 MHz	Sweep 40	1.00 s (40000 pts)	100 C	Res BW 1.0 MHz	#VBW 3.0 2019_165357_partial_2			.00 \$ (40000 pts)	



jlent Spectrum Analyzer Swept SA RL RE 50.9 AC SENSE:IN	VT ALIGNAUTO 07:13:33 PMDec 18, 2019	1	Agilemi Spectrum Analyzer - Swept SA 27 RL RE 50.0 AC SENSE11/11 ALIMAUTO 07:12:46 PMDec 18, 2019	
PNO: Fast	Ava Type: Log-Pur TRACE TRACE	ingger	PNO: Fast →→ Trig: Free Run IFGsindligh #Atten: 0 dB DE: DD: DD: DD: DD: DD: DD: DD: DD: DD:	Trigger
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File <3600_test18122019_165357_partial_2_16.png> st 300_100_100_100_100_100_100_100_100_100_			Mos // File <3600_test_18122019_165357_partial_2_15.png> saved STATUE	_
jilent Spectrum Analyzer - Swept 5A RL RE SD & AC SENSE:1h		Trigger	Aglent Spectrum Analyzer Swept SA 20 RL RE 150 2 40 SENECTIVIT AUGUATO (07:31:13PMDac 18;2039 Avg Type: Log-Rwr TRACE (02:33)	Trigger
PNO: Fast ++- Trig: Free Rur IFGain:Iligh #Atten: 0 dB	Avg Type: Log-Pwr TAKE TO THE TYPE	Free Run	PRO: Fast Trig: Free Run Tvie PPP PPP IFGain:fligh #Atten: 0 dB Det PPP PP	Free Ru
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co		RF Burst (Wideband)		RF Burst (Wideband)
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File <3600_test18122019_165357_partial_2_14.png> st	aved STATUS		Hes J/File <3600_test_18122019_165357_partial_2_13.png> saved STATUS	
jilent Spectrum Analyzer - Swept SA RL RE 50 92 AC SENSE III		Trigger	Aglent Spectrum Analyzer - Swept SL 20 RL RE 50.0	Trigger
PNO: Fast Trig: Free Run IFGain:lligh #Atten: 0 dB	Avg Type: Log-Pwr TRACE TO THE TYPE	Free Run	PNO: Fast ++ Trig: Free Run TVVE PPPPP	Free Ru
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G J/File <3600_test18122019_165357_partial_2_12.png> sa			Ites         J/File         Status         Status	



IN         RL         IN         State         System         Althanto         Orass / Maximum         Trigger         II         II         III         State         Application         Application         Orass / Maximum         Application         App	
Ir Gainsligh #Atten: 0 dB Drietanature Free Run IF Gainsligh #Atten: 0 dB	IRACE 12:34 Trigger Type Water Det P.P.P.P.P.P.P.P.P.P.P.P.P.P.P.P.P.P.P.
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es BW 1.0 MHz #VBW 3.0 MHz Sweep 40.00 s (40000 pts) Res BW 1.0 MHz #VBW 3.0 MHz Sweep 40.00 s (40000 pts) Res BW 1.0 MHz #VBW 3.0 MHz Sweep 40.00 s	(40000 pts)
ng/km/ Spectrum Andyzur Swept SA. R L RF SD 2 42 SPRE2INT ALIPHANTO (0720/23PM/bbc38.2019 D RL RF SD 2 42 SPRE2INT ALIPHANTO (0720/23PM/bbc38.2019	25.040
RL         B/DD         SORE B/D         AVMAND         00002000cd (82:000         Trigger         C         RL         Is         SORE B/D         AVMAND         00002000cd (82:000           PR01         Factor B/do         Free Run         May Type: Log-Pwr         Trigger         Trigger         PR01         Factor B/do         Avg Type: Log-Pwr         Trigger           PR01         Free Run         Factor B/do         Factor B/do         Factor B/do         Free Run         Avg Type: Log-Pwr         Factor B/do         Free Run         Factor B/do         Free Run         Factor B/do         Factor B/do         Free Run         Factor B/do         Factor B	Trigger
IF Calactingh         #Atten: 0 dB         IF (alactingh)         #Atten: 0 dB           Ref Offset 21 11 dB         0 dB/m         10 dB/m         10 dB/m	Free Ru
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Senter 3.560000000 GHz         \$VEW 3.0 MHz         Sweep 40.00 s (40000 pts)         1 of 2 Res BW 1.0 MHz         #VEW 3.0 MHz         Sweep 40.00 s (40000 pts)           J. File 3000 test_18122019 165377 partial_2_8 prg> saved         startus         end J. File 3000 test_18122019 165377 partial_2_7 prg> saved         startus         end J. File 3000 test_18122019 165377 partial_2_7 prg> saved         startus           end type=type=type=type=type=type=type=type=	(40000 pts)
Enter 3.560000000 GHz         #VBW 3.0 MHz         Spean 0 Hz         Spean 0 Hz         Spean 0 Hz         Res BW 1.0 MHz         #VBW 3.0 MHz         Sweep 40.00 s           J_FFI0 <3000 test_18122019_165357_partial_2_8.png> saved         strute         dial         Strute         dial         Strute         strut         strute         strute <td>(40000 pts)</td>	(40000 pts)
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enter 3.56000000 GHz es BW 10 MHz	Standard 16, 2000 Standard 16, 2000 March Baland 10 Free Ru Video
enter 3.560000000 GHz es BW 1.0 MHz	SPACE DE STORE MACE DE STORE MACE DE STORE Trigger Trigger Free Ru Videe
enter 3.56000000 GHz es BW 1.0 MHz	(40000 pts)
Span 0 Hz Set BV 1.0 MHz         #VBW 3.0 MHz         Sweep 40.00 s (40000 pts)         1072         Center 3.560000000 GHz Res BW 1.0 MHz         #VBW 3.0 MHz         Sweep 40.00 s (40000 pts)           UF File <3600 lest_18122019 165357 partial_2.8 png> saved         374114 </td <td>(10000 pt/s) Trigger Tre Data and Trigger Tre Ru Videc (IF Envelope)</td>	(10000 pt/s) Trigger Tre Data and Trigger Tre Ru Videc (IF Envelope)
Denter 3.560000000 CHz tes EW 1.0 MHz     #VEW 3.0 MHz     Sweep 40.00 s (40000 pts)     10 <sup>12</sup> Res EW 1.0 MHz     #VEW 3.0 MHz     Sweep 40.00 s (40000 pts)       UFIe <3600_lest_B122019_163357_partial_2_8_prop saved	Clobol viz Clobol viz Comparison Compar
Center 3.560000000 CHZ tes EW 1.0 MHz         #VEW 3.0 MHz         Sweep 40.00 s (40000 pts)         10 <sup>12</sup> Center 3.560000000 CHZ Res EW 1.0 MHz         #VEW 3.0 MHz         Sweep 40.00 s (40000 pts)           U         10 <sup>12</sup> #VEW 3.0 MHz         Sweep 40.00 s (40000 pts)         If 0 <sup>12</sup> External 10 <sup>12</sup> Sweep 40.00 s (40000 pts)         Sweep 40.00 s (4000 p	Clobol vizione de la colorización de la colorizació
Center 3.560000000 CHz tes EW 1.0 MHz         #VEW 3.0 MHz         Sweep 40.00 s (4000 pts)         10*2         Center 3.56000000 CHz Res EW 1.0 MHz         #VEW 3.0 MHz         Sweep 40.00 s (4000 pts)           I File < 3600 Lest 18122019 185357 partial 2.8 pnps saved	(40000 provide Trigger Trigger Trigger Trigger Free Ru Under External 1 External 2 RF Burst (Wideand



oltent Spectrum Analyzer - Swept SA RL RE 50 0 - RC SENSE:1NT AUGUAUTO 07:04:18 PMDec 18, 2019		Agilent Spectrum Analyzer - Swept SA Dr. RL RE SD & RC SENSE:INT ALIGNAUTO (07303:30 PM Dec 18, 2019	
PNO: Feat + Trig: Free Run FGainzligh \$Atten: 0 dB pet PPP P	Trigger	PNO: Fast →→ PNO: Fast →→ IFG-skichtigh #Atten: 0 dB or PPPPP	Trigger
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## 2. CPE.KDB.2: Verify CPE-CBSD can register with SAS with transmit power below 23dBm EIRP



Figure CPE.KDB.2 A: MaxHold trace capture during registration and grant request procedure. This plot shows that the CPE-CBSD was able to register with test-SAS and obtain a grant operating at transmit power below 23dBm/10MHz EIRP.

MaxHold transmit power measured while obtaining grant is 13.67dBm/10MHz EIRP

Peak Power Spectral Density EIRP detected during grant request procedure was 3.67 dBm/MHz EIRP

Notes

Peak PSD EIRP (dBm/MHz) = Antenna Gain (11dB) + Conducted Peak PSD (-7.332 dBm/MHz)

Transmit power EIRP (dBm/10MHz) = Antenna Gain (11dB) + Conducted Channel Power (2.57 dBm/10MHz)

RF Path loss = 21.11 dB (Already considered in rf equipment measurement)



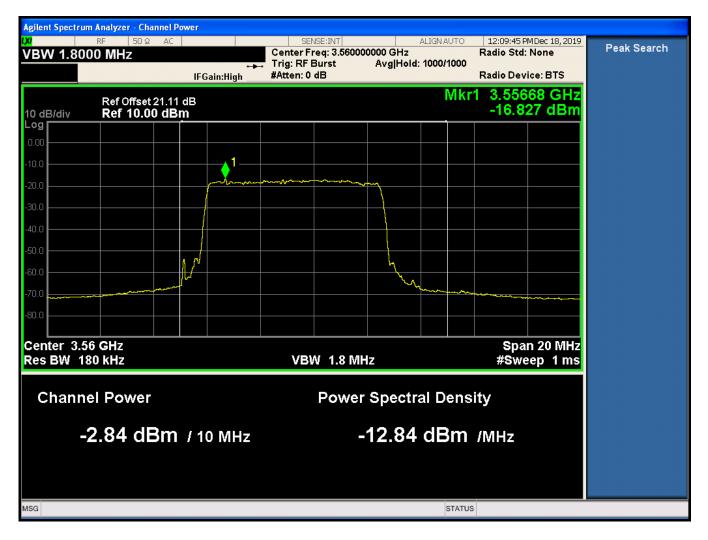


Figure CPE.KDB.2s B: CPE-CBSD EIRP transmit channel power measurement after CPE-CBSD has obtained a grant from test SAS and it is fully utilizing the channel with user data traffic. This plot shows CPE-CBSD obtains connection and can operate at below 23dBm/10MHz EIRP

Measured CPE-CBSD transmit power is 8.16 (dBm/10MHz) EIRP

Note: Channel Power calculated as:

EIRP (dBm/10MHz) = Antenna Gain (11dB) + Conducted Tx. Power (-2.84 dBm/10 MHz)

RF Path loss = 21.11dB (Already considered in rf equipment measurement)