REGULATORY COMPLIANCE TEST REPORT

FCC CFR 47 Part 15 Subpart E 15.407
ISED RSS-247 Issue 2
(Limited to DFS Bands)

Report No.: MIKO120-U2 Rev A

Company: Mikrotikls SIA

Model Name: RBGrooveGA-52HPacn-US

REGULATORY COMPLIANCE TEST REPORT

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Model Name: RBGrooveGA-52HPacn-US

To: FCC CFR 47 Part 15 Subpart E 15.407
& ISED RSS-247 Issue 2
(Limited to DFS Bands)

Test Report Serial No.: MIKO120-U2 Rev A

This report supersedes: NONE

Applicant: Mikrotikls SIA
Brīvības gatve 214i
Rīga, LV 1039
Latvia

Issue Date: 22nd October 2021

This Test Report is Issued Under the Authority of:

MiCOM Labs, Inc.
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Pleasanton California 94566
USA
Phone: +1 (925) 462-0304
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ACCREDITED
TESTING CERT #2381.01

MiCOM Labs is an ISO 17025 Accredited Testing Laboratory

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1. ACCREDITATION, LISTINGS & RECOGNITION

1.1. TESTING ACCREDITATION

MiCOM Labs, Inc. is an accredited Electrical testing laboratory per the international standard ISO/IEC 17025:2017. The company is accredited by the American Association for Laboratory Accreditation (A2LA) www.a2la.org test laboratory number 2381.01. MiCOM Labs test schedule is available at the following URL; http://www.a2la.org/scopepdf/2381-01.pdf

Accredited Laboratory

A2LA has accredited

MICOM LABS

Pleasanton, CA

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated April 2017*).

Presented this 24th day of February 2020.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2381.01
Valid to November 30, 2021

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.

1.2. RECOGNITION

MiCOM Labs, Inc is widely recognized for its wireless testing and certification capabilities. In addition to being recognized for Testing and Certification under Phase 2 Mutual Recognition Agreements (MRA) with Canada, Europe, United Kingdom and Japan, our international recognition includes Conformity Assessment Body (CAB) designation status under agreements with Asia Pacific (APEC) MRA Phase 1 countries giving acceptance of MiCOM Labs test reports. MiCOM Labs test reports are accepted globally.

Country	Recognition Body	Status	MRA Phase	Identification No.
USA	Federal Communications Commission (FCC)	TCB	-	US0159 Test Firm Designation#: US1084
Canada	Industry Canada (ISED)	FCB	APEC MRA 2	US0159 ISED#: 4143A
Japan	MIC (Ministry of Internal Affairs and Communication)	CAB	Japan MRA 2	RCB 210
	Japan Approvals Institute for Telecommunication Equipment (JATE)			
	VCCI	--	--	A-0012
Europe	European Commission	NB	EU MRA 2	NB 2280
United Kingdom	Department for Business, Energy & Industrial Strategy (BEIS)	AB	UK MRA 2	AB 2280
Mexico	Instituto Federal de Telecomunicaciones (IFT)	CAB	Mexico MRA 1	US0159
Australia	Australian Communications and Media Authority (ACMA)	CAB	APEC MRA 1	US0159
Hong Kong	Office of the Telecommunication Authority (OFTA)			
Korea	Ministry of Information and Communication Radio Research Laboratory (RRL)			
Singapore	Infocomm Development Authority (IDA)			
Taiwan	National Communications Commission (NCC) Bureau of Standards, Metrology and Inspection (BSMI)			
Vietnam	Ministry of Communication (MIC)			

TCB – Telecommunications Certification Bodies (TCB)
FCB – Foreign Certification Body
CAB – Conformity Assessment Body
NB – Notified Body
AB – Approved Body
MRA – Mutual Recognition Agreement
MRA PhasePhase I - recognition for product testing
Phase II – recognition for both product testing and certification

1.3. PRODUCT CERTIFICATION

MiCOM Labs, Inc. is an accredited Product Certification Body per the international standard ISO/IEC 17065:2012. The company is accredited by the American Association for Laboratory Accreditation (A2LA) www.a2la.org test laboratory number 2381.02. MiCOM Labs test schedule is available at the following URL; http://www.a2la.org/scopepdf/2381-02.pdf

Accredited Product Certification Body

A2LA has accredited

MiCOM LABS

Pleasanton, CA

This product certification body is accredited in accordance with the recognized International Standard ISO/IEC 17065:2012 Requirements for bodies certifying products, processes and services. This product certification body also meets the A2LA R322 – Specific Requirements – Notified Body Accreditation Requirements and A2LA R308 - Specific Requirements - ISO-IEC 17065 - Telecommunication Certification Body Accreditation Program. This accreditation demonstrates technical competence for a defined scope and the operation of a management system.

Presented this 24th day of February 2020

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2381.02
Valid to November 30, 2021

For the product certification schemes to which this accreditation applies, please refer to the organization's Product Certification Scope of Accreditation.

United States of America – Telecommunication Certification Body (TCB)
Industry Canada – Certification Body, CAB Identifier – US0159
Europe – Notified Body (NB), NB Identifier - 2280
UK – Approved Body (AB), AB Identifier - 2280
Japan – Recognized Certification Body (RCB), RCB Identifier - 210

2. DOCUMENT HISTORY

Document History		
Revision	Date	Comments
Draft	18th October 2021	Draft report for client review.
Draft 2	21st October 2021	AC-80 Tx Power and PSD test results for 5470 - 5725 MHz band revised.
Rev A	22nd October 2021	Initial release.
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In the above table the latest report revision will replace all earlier versions.

3. TEST RESULT CERTIFICATE

Manufacturer:	Mikrotikls SIA Brīvības gatve 214i Rīga LV 1039 Latvia	**Tested By:**	MiCOM Labs, Inc. 575 Boulder Court Pleasanton California 94566 USA
Model:	RBGrooveGA-52HPacn-US	**Telephone:**	+1 925 462 0304
Type Of Equipment:	802.11ac WLAN Access Point	**Fax:**	+1 925 462 0306
S/N's:	A3F30DDEFF84, A3F30DDB96407		
Test Date(s):	01 - 21 September 2021	**Website:**	www.micomlabs.com

STANDARD(S)	TEST RESULTS
FCC CFR 47 Part 15 Subpart E 15.407 and RSS-247 Issue 2 (Limited to DFS Bands)	EQUIPMENT COMPLIES

MiCOM Labs, Inc. tested the equipment mentioned in accordance with the requirements set forth in the above standards. Test results indicate that the equipment tested is capable of demonstrating compliance with the requirements as documented within this report.

Notes:

1. This document reports conditions under which testing was conducted and the results of testing performed.

2. Details of test methods used have been recorded and kept on file by the laboratory.

3. Test results apply only to the item(s) tested.

A2LA ACCREDITED
TESTING CERT #2381.01

Approved & Released for MiCOM Labs, Inc. by:

Graeme Grieve
Quality Manager MiCOM Labs, Inc.

Gordon Hurst
President & CEO MiCOM Labs, Inc.

4. REFERENCES AND MEASUREMENT UNCERTAINTY

4.1. Normative References

REF.	PUBLICATION	YEAR	TITLE
I	KDB 662911 D01, D02, D03	D01 Oct 2013, D02 Oct 2011, D03 Oct 2020	Guidance for measurement of output emission of devices that employ single transmitter with multiple outputs or systems with multiple transmitters operating simultaneously in the same frequency band. 662911 D01 Multiple Transmitter Output v02r01, 662911 D02 MIMO with Cross Polarized Antenna v01, 662911 D03 MIMO Antenna Gain Measurement v01, OET 13TR1003 Directional Gain of 802 11 MIMO with CDD 04 05 2013
II	KDB 905462 D07 v02	Aug 2016	Test guidance to demonstrate compliance for U-NII devices subject to DFS requirements.
III	KDB 926956 D01 v02	Aug 2016	U-NII Device Transition Plan
IV	A2LA	5th Oct 2020	R105 - Requirement's When Making Reference to A2LA Accreditation Status
V	ANSI C63.10	2020	American National Standard for Testing Unlicensed Wireless Devices
VI	ANSI C63.4	2014	American National Standards for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
VII	ETSI TR 100 028	2001-12	Parts 1 and 2 Electromagnetic compatibility and Radio Spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics
VIII	FCC 06-96	Jun 2006	Memorandum Opinion and Order
IX	FCC 47 CFR Part 15.407	2021	Radio Frequency Devices; Subpart E –Unlicensed National Information Infrastructure Devices
X	ICES-003	Issue 7; Oct 2020	Information Technology Equipment (Including Digital Apparatus)
XI	M 3003	EDITION 4 Oct 2019	Expression of Uncertainty and Confidence in Measurements
XII	RSS-247 Issue 2	Feb 2017	Digital Transmission Systems (DTSs), Frequency Hopping System (FHSs) and License-Exempt Local Area Network (LE-LEN) Devices
XIII	RSS-Gen Issue 5	Amendment 1,2 (Feb 2021)	General Requirements for Compliance of Radio Apparatus. With Amendments 1: March 2019 and 2: Feb 2021.
XIV	FCC 47 CFR Part 2.1033	May 2021	FCC requirements and rules regarding photographs and test setup diagrams.
XV	KDB 905462 D02 v02	Apr 2016	Compliance Measurement Procedures for Unlicensed National Information Infrastructure devices operating in the 5250 to 5350 MHz and 5470 to 5725 MHz bands incorporating Dynamic Frequency Selection.
XVI	KDB 789033 D02 V02r01	Dec 2017	Guidelines For Compliance Testing Of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E

4.2. Test and Uncertainty Procedure

Conducted and radiated emission measurements were conducted in accordance with American National Standards Institute ANSI C63.4, listed in the Normative References section of this report.

Measurement uncertainty figures are calculated in accordance with ETSI TR 100 028 Parts 1 and 2.

Measurement uncertainties stated are based on a standard uncertainty multiplied by a coverage factor k = 2, providing a level of confidence of approximately 95 % in accordance with UKAS document M 3003 listed in the Normative References section of this report.

5. PRODUCT DETAILS AND TEST CONFIGURATIONS

5.1. Technical Details

Details	Description
Purpose:	Test of the Mikrotikls SIA RBGrooveGA-52HPacn-US to FCC CFR 47 Part 15 Subpart E 15.407 and ISED RSS-247. Compliance Measurement Procedures for Unlicensed National Information Infrastructure devices operating in the 5250 to 5350 MHz and 5470 to 5725 MHz bands incorporating Dynamic Frequency Selection.
Applicant:	Mikrotikls SIA Brīvības gatve 214i Rīga LV 1039 Latvia
Manufacturer:	Mikrotikls SIA
Laboratory performing the tests:	MiCOM Labs, Inc. 575 Boulder Court Pleasanton California 94566 USA
Test report reference number:	MIKO120-U2 Rev A
Date EUT received:	August 10th 2021
Standard(s) applied:	FCC CFR 47 Part 15 Subpart E 15.407
Dates of test (from - to):	01 - 21 September 2021
No of Units Tested:	2
Product Family Name:	GrooveA 52 ac
Model(s):	RBGrooveGA-52HPacn-US
Location for use:	Outdoors
Declared Frequency Range(s):	5250 - 5350 MHz; 5470 - 5725 MHz;
Type of Modulation:	OFDM
EUT Modes of Operation:	a; ac-80; HT-20; HT-40;
Declared Nominal Output Power (dBm):	27
Transmit/Receive Operation:	Transceiver
Rated Input Voltage and Current:	24 VDC – 0.38 A
Operating Temperature Range:	-40°C - 70°C
ITU Emission Designator:	802.11a: 17M8D1D 802.11n HT-20;- 19M0D1D 802.11n HT-40;- 37M7D1D 802.11ac-80;- 78M0D1D
Equipment Dimensions:	44 / 177 / 44 mm
Weight:	0.1 Kg
Software Rev:	6.48.3
Software Build:	May/25/2021 06:09:45

5.2. Scope Of Test Program

Mikrotikls SIA RBGrooveGA-52HPacn-US

The scope of the test program was to test the Mikrotikls SIA RBGrooveGA-52HPacn-US 802.11 configurations in the frequency ranges 5250 - 5350 MHz; 5470 - 5725 MHz; for compliance against the following specification:

FCC CFR 47 Part 15 Subpart E 15.407
Compliance Measurement Procedures for Unlicensed National Information Infrastructure devices operating in the 5250 to 5350 MHz and 5470 to 5725 MHz bands incorporating Dynamic Frequency Selection.

RSS-247 Issue 2 Feb 2017
Digital Transmission Systems (DTSs), Frequency Hopping System (FHSs) and License-Exempt Local Area Network (LE-LEN) Devices

For Non-DFS bands compliance testing, Digital Emissions and AC Wireline see Rogers Labs, Inc. test report 170104A r2 dated January 4, 2017

5.3. Equipment Model(s) and Serial Number(s)

Type	Description	Manufacturer	Model	Serial no.	Delivery Date
EUT	802.11ac WLAN access Point	MikroTikls SIA	RBGrooveGA-52HPacn-US	A3F30DDEFF84	10th August 2021
EUT	802.11ac WLAN access Point	MikroTikls SIA	RBGrooveGA-52HPacn-US	A3F30DDB96407	10th August 2021
Support	PoE Injector	MikroTikls SIA	--	--	--
Support	Laptop	Dell	--	--	--

5.4. Antenna Details

Type	Manufacturer	Model	Family	Gain (dBi)	BF Gain	Dir BW	X-Pol	Frequency Band (MHz)
external	Tesswave communications	TOF-2458-6V	OMNI	8.0	-	360	-	5250 – 5350 5470 – 5725

BF Gain - Beamforming Gain
Dir BW - Directional BeamWidth
X-Pol - Cross Polarization

5.5. Cabling and I/O Ports

Port Type	Max Cable Length	# of Ports	Screened	Conn Type	Data Type	Bit Rate
Ethernet PoE In	>30m	1	No	RJ45	Packet Data	10/100/1000

5.6. Test Configurations

Results for the following configurations are provided in this report:

Operational Mode(s) (802.11a/b/g/n/ac)	Data Rate with Highest Power MBit/s	Channel Frequency (MHz)		
		Low	Mid	High
5250 - 5350 MHz				
a	6	5,260.00	5,300.00	5,320.00
ac-80	29.3	--	--	5,290.00
HT-20	6.5	5,260.00	5,300.00	5,320.00
HT-40	13.5	5,270.00	--	5,310.00
5470 - 5725 MHz				
a	6	5,500.00	5,580.00	5,720.00
ac-80	29.3	5,530.00	5,610.00	5,690.00
HT-20	6.5	5,500.00	5,580.00	5,720.00
HT-40	13.5	5,510.00	5,550.00	5,710.00

5.7. Equipment Modifications

The following modifications were required to bring the equipment into compliance:
1. NONE

5.8. Deviations from the Test Standard

The following deviations from the test standard were required in order to complete the test program:
1. NONE

6. TEST SUMMARY

List of Measurements

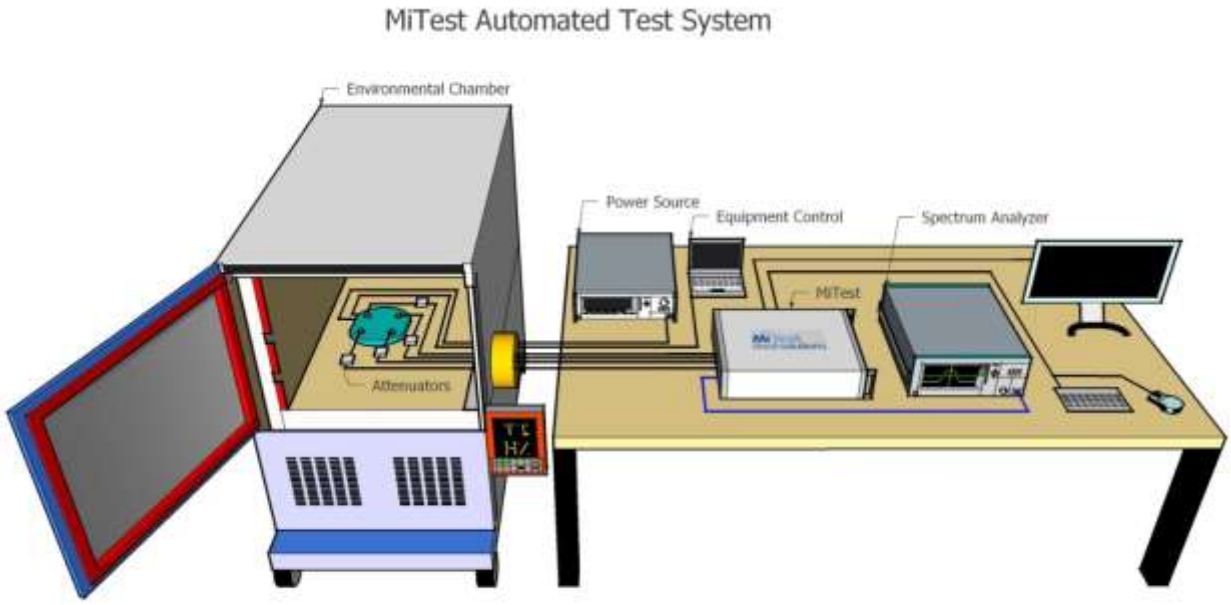
Test Header	Result	Data Link
Peak Transmit Power	Complies	View Data
26 dB & 99% Bandwidth	Complies	View Data
Power Spectral Density	Complies	View Data
Dynamic Frequency Selection (DFS)	Complies	-
Channel Availability Check	Complies	-
Initial CAC	Complies	View Data
Beginning CAC	Complies	View Data
End CAC	Complies	View Data
Channel Close / Transmission Time	Complies	View Data
Non-Occupancy Period	Complies	View Data
Probability of Detection	Complies	View Data
Detection Bandwidth	Complies	View Data
Radiated	Complies	-
TX Spurious & Restricted Band Emissions	Complies	-
Tesswave communications TOF-2458-6V	Complies	View Data
Restricted Edge & Band-Edge Emissions	Complies	-
Tesswave communications TOF-2458-6V	Complies	View Data

For Non-DFS bands compliance testing, Digital Emissions and AC Wireline see Rogers Labs, Inc.. test report 170104A r2 dated January 4, 2017.

7. TEST EQUIPMENT CONFIGURATION(S)

7.1. Conducted

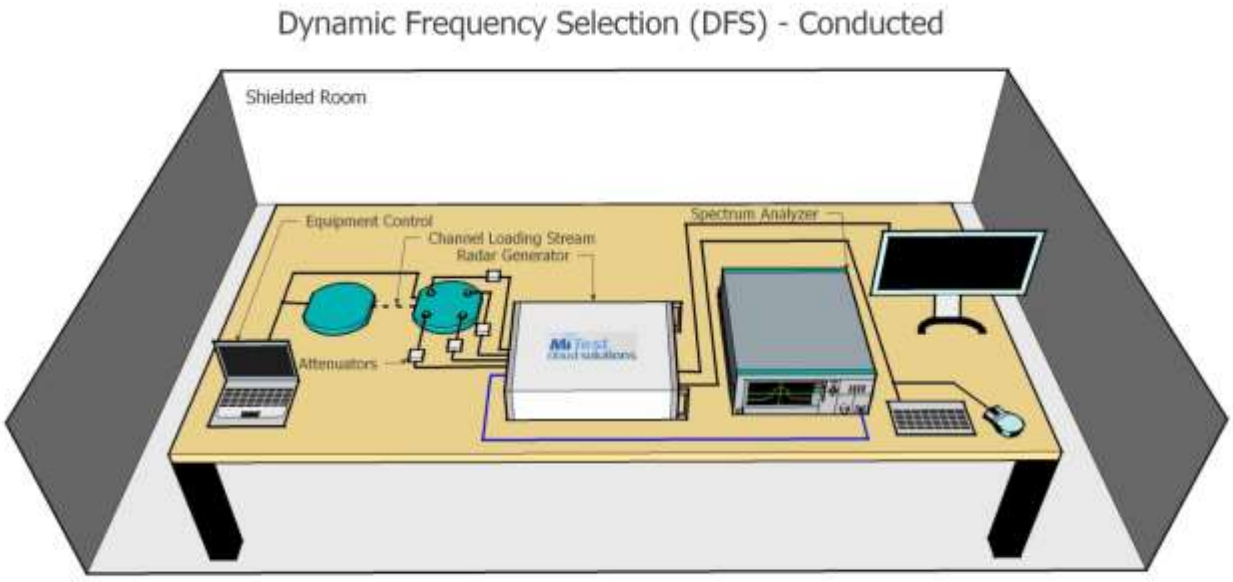
Conducted RF Emission Test Set-up(s).



A full system calibration was performed on the test station and any resulting system losses (or gains) were taken into account in the production of all final measurement data.

Asset#	Description	Manufacturer	Model#	Serial#	Calibration Due Date
#3 SA	MiTest Box to SA	Fairview Microwave	SCA1814-0101-72	#3 SA	4 Nov 2021
#3P1	EUT to MiTest box port 1	Fairview Microwave	SCA1814-0101-72	#3P1	4 Nov 2021
#3P2	EUT to MiTest box port 2	Fairview Microwave	SCA1814-0101-72	#3P2	4 Nov 2021
#3P3	EUT to MiTest box port 3	Fairview Microwave	SCA1814-0101-72	#3P3	4 Nov 2021
#3P4	EUT to MiTest box port 4	Fairview Microwave	SCA1812-0101-72	#3P4	4 Nov 2021
249	Thermocouple; Resistance Thermometer	Thermotronics	GR2105-02	9340 #2	30 Oct 2021
287	Rohde & Schwarz 40 GHz Receiver	Rhode & Schwarz	ESIB40	100201	8 Oct 2022
398	MiTest RF Conducted Test Software	MiCOM	MiTest ATS	Version 4.2.3.0	Not Required
405	DC Power Supply 0-60V	Agilent	6654A	MY4001826	Cal when used
408	USB to GPIB interface	National Instruments	GPIB-USB HS	14C0DE9	Not Required
440	USB Wideband Power Sensor	Boonton	55006	9178	22 Oct 2021
442	USB Wideband Power Sensor	Boonton	55006	9181	19 Oct 2021
445	PoE Injector	D-Link	DPE-101GL	QTAH1E2000625	Not Required
461	Spectrum Analyzer	Agilent	E4440A	MY46185537	27 Sep 2023
494	USB Wideband Power Sensor	Boonton	55006	9726	19 Oct 2021
510	Barometer/Thermometer	Control Company	68000-49	170871375	20 Dec 2021
512	MiTest Cloud Solutions RF Test Box	MiCOM	2nd Gen with DFS	512	4 Nov 2021
555	Rhode & Schwarz Receiver	Rhode & Schwarz	ESW 44	101893	28 Jun 2023
75	Environmental Chamber	Thermatron	SE-300-2-2	27946	20 Feb 2022

7.2. DFS - Conducted



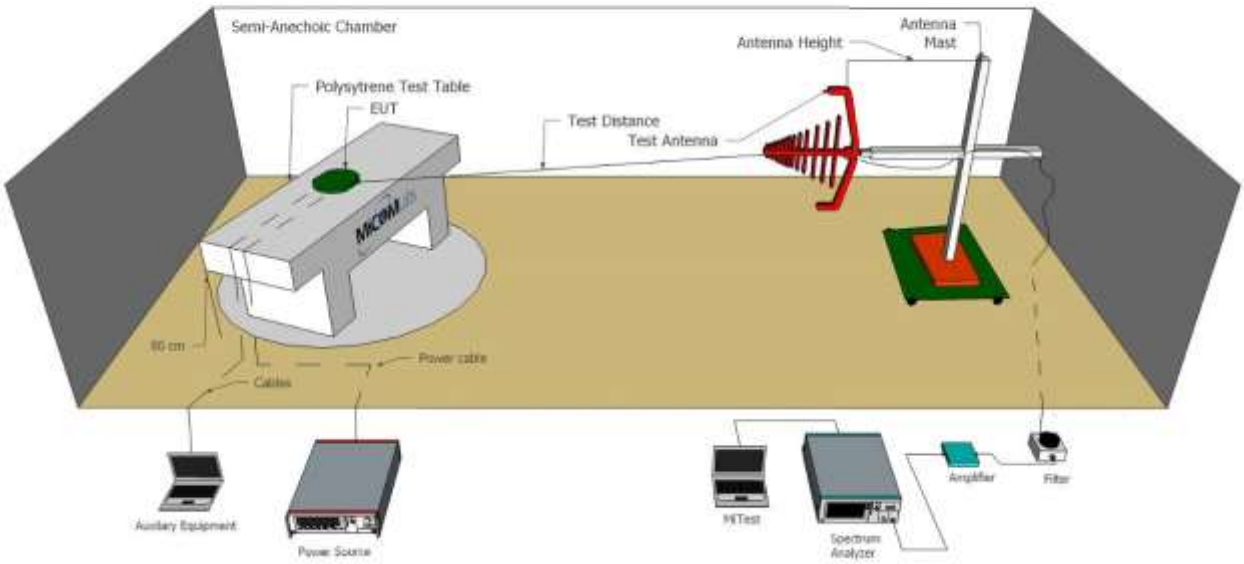
A full system calibration was performed on the test station and any resulting system losses (or gains) were taken into account in the production of all final measurement data.

Asset#	Description	Manufacturer	Model#	Serial#	Calibration Due Date
504	MiTest Cloud Solutions RF Test Box	MiCOM	2nd Gen	504	5 Nov 2021
510	Barometer/Thermometer	Control Company	68000-49	170871375	20 Dec 2021
533	MiTest DFS Test Software	MiCOM	MiTest DFS Test software Version 2.8	533	Not Required
71	Spectrum Analyser 9KHz-50GHz	HP	8565E	3425A00181	Not Required
DFS SMA#1	SMA Cable for DFS	Megaphase	SMA Cable	None	Cal when used
DFS SMA#2	SMA Cable for DFS	Megaphase	SMA Cable	None	Cal when used
DFS SMA#3	SMA Cable for DFS	Megaphase	SMA Cable	None	Cal when used
DFS SMA#4	SMA Cable for DFS	Megaphase	SMA Cable	None	Cal when used

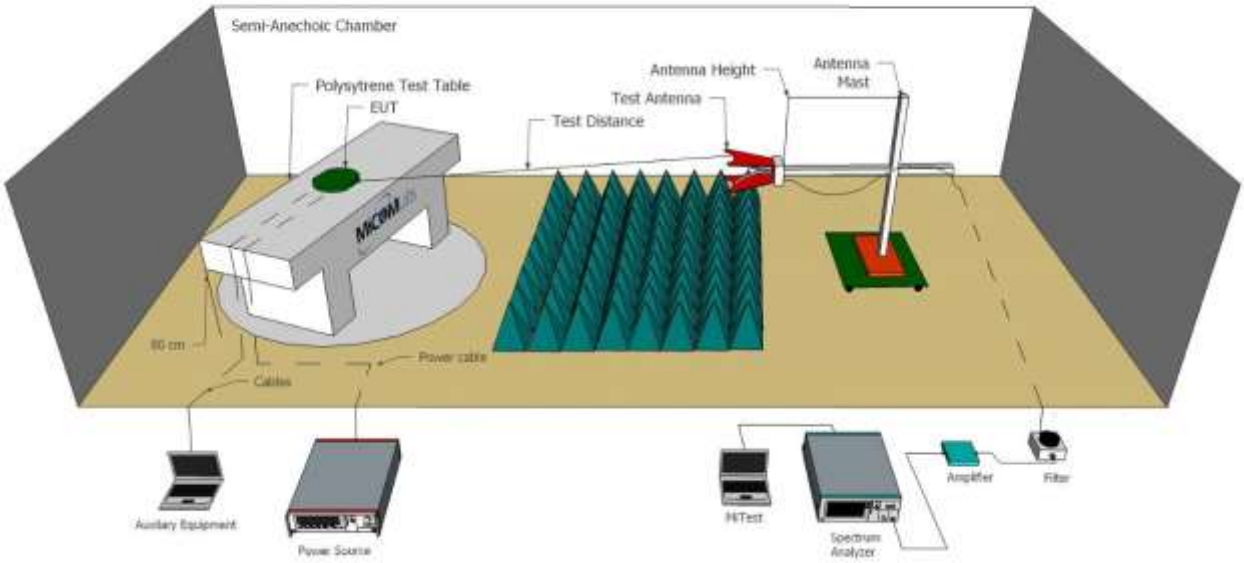
7.3. Radiated Emissions - 3m Chamber

Test Setup for Radiated Emissions for above and below 1 GHz

Radiated Emissions Below 1GHz Test Setup



Radiated Emissions Above 1GHz Test Setup



A full system calibration was performed on the test station and any resulting system losses (or gains) were taken into account in the production of all final measurement data.

Asset#	Description	Manufacturer	Model#	Serial#	Calibration Due Date
170	Video System Controller for Semi Anechoic Chamber	Panasonic	WV-CU101	04R08507	Not Required
287	Rohde & Schwarz 40 GHz Receiver	Rhode & Schwarz	ESIB40	100201	8 Oct 2022
338	Sunol 30 to 3000 MHz Antenna	Sunol	JB3	A052907	4 Nov 2021
373	26III RMS Multimeter	Fluke	Fluke 26 series III	76080720	21 Oct 2021
377	Band Rejection Filter 5150 to 5880MHz	Microtronics	BRM50716	034	6 Oct 2022
397	Amp 10 - 2500MHz	MiCOM Labs	Amp 10 - 2500 MHz	NA	9 Nov 2021
399	ETS 1-18 GHz Horn Antenna	ETS	3117	00154575	12 Nov 2021
406	Amplifier for Radiated Emissions	MiCOM Labs	40dB 1 to 18GHz Amp	0406	9 Nov 2021
410	Desktop Computer	Dell	Inspiron 620	WS38	Not Required
411	Mast/Turntable Controller	Sunol Sciences	SC98V	060199-1D	Not Required
413	Mast Controller	Sunol Science	TWR95-4	030801-3	Not Required
414	DC Power Supply 0-60V	HP	6274	1029A01285	Cal when used
415	Turntable Controller	Sunol Sciences	Turntable Controller	None	Not Required
416	Gigabit ethernet filter	ETS-Lingren	Gigafoil 260366	None	Not Required
447	MiTest Rad Emissions Test Software	MiCOM	Rad Emissions Test Software Version 1.0	447	Not Required
462	Schwarzbeck cable from Antenna to Amplifier.	Schwarzbeck	AK 9513	462	4 Nov 2021
463	Schwarzbeck cable from Amplifier to Bulkhead.	Schwarzbeck	AK 9513	463	4 Nov 2021
464	Schwarzbeck cable from Bulkhead to Receiver	Schwarzbeck	AK 9513	464	4 Nov 2021
480	Cable - Bulkhead to Amp	SRC Haverhill	157-3050360	480	23 Jun 2022
481	Cable - Bulkhead to Receiver	SRC Haverhill	151-3050787	481	23 Jun 2022
510	Barometer/Thermometer	Control Company	68000-49	170871375	20 Dec 2021
554	Precision SMA Cable	Fairview Microwave	SCE18060101-400CM	554	23 Jun 2022
555	Rhode & Schwarz Receiver	Rhode & Schwarz	ESW 44	101893	28 Jun 2023

8. MEASUREMENT AND PRESENTATION OF TEST DATA

The measurement and graphical data presented in this test report was generated automatically using state-of-the-art technology creating an easy to read report structure. Numerical measurement data is separated from supporting graphical data (plots) through hyperlinks. Numerical measurement data can be reviewed without scrolling through numerous graphical pages to arrive at the next data matrix.

Plots have been relegated into the Appendix 'Graphical Data'.

Test and report automation was performed by MiTest. MiTest is an automated test system developed by MiCOM Labs. MiTest is the first cloud based modular test system enabling end-to-end automation of regulatory compliance testing for conducted RF testing.

The MiCOM Labs "MiTest" Automated Test System" (Patent Pending)

9. TEST RESULTS

9.1. Peak Transmit Power

Conducted Test Conditions for Maximum Conducted Output Power			
Standard:	FCC CFR 47:15.407 ISED RSS-247	**Ambient Temp. (ºC):**	24.0 - 27.5
Test Heading:	Maximum Conducted Output Power	**Rel. Humidity (%):**	32 - 45
Standard Section(s):	15.407 (a) RSS-247 Sect 6.2	**Pressure (mBars):**	999 - 1001
Reference Document(s):	See Normative References		

Test Procedure for Maximum Conducted Output Power Measurement
Method PM (Measurement using an RF average power meter). KDB 789033 defines a methodology using an average wideband power meter. Measurements were made while the EUT was operating in a continuous transmission mode (100% duty cycle) at the appropriate center frequency. All operational modes and frequency bands were measured independently and the resultant calculated. Where the device operated with multiple antenna ports i.e. MIMO device, each port was measured and reported separately. A summation (Σ) of each antenna port output power is provided which includes any offset due to Duty Cycle Correction Factor (DCCF). Testing was performed under ambient conditions at nominal voltage.

Test configuration and setup used for the measurement was per the Conducted Test Set-up section specified in this document.
Supporting Information
Calculated Power = A + G + Y+ 10 log (1/x) dBm

A = Total Power [10*Log10 ($10^{a/10}$ + $10^{b/10}$ + $10^{c/10}$ + $10^{d/10}$)]
G = Antenna Gain
Y = Beamforming Gain
x = Duty Cycle (average power measurements only)

Limits Maximum Conducted Output Power

Operating Frequency Band 5250-5350 and 5470 – 5725 MHz

15. 407 (a)(2)
For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Equipment Configuration for Peak Transmit Power			
Variant:	802.11a	**Duty Cycle (%):**	97.5
Data Rate:	6.00 MBit/s	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power (dBm) Port(s)				Calculated Total Power	Minimum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dB	
5260.0	18.66				18.66	25.651	22.00	-3.34	20.00
5300.0	18.16				18.16	25.731	22.00	-3.84	20.00
5320.0	18.31				18.31	25.892	22.00	-3.69	20.00

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

The above measurements are true pulse readings and therefore a Duty Cycling correction factor is not required.

Variant:	802.11ac-80	**Duty Cycle (%):**	80.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power (dBm) Port(s)				Calculated Total Power	Minimum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dB	
5290.0	9.19				9.19	103.567	22.00	-12.81	10.00

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	

The above measurements are true pulse readings and therefore a Duty Cycling correction factor is not required.

Equipment Configuration for Peak Transmit Power			
Variant:	802.11n HT-20	**Duty Cycle (%):**	96.4
Data Rate:	6.50 MBit/s	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power (dBm) Port(s)				Calculated Total Power	Minimum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dB	
5260.0	18.29				18.29	31.904	22.00	-3.71	20.00
5300.0	17.96				17.96	25.892	22.00	-4.04	20.00
5320.0	18.25				18.25	26.293	22.00	-3.75	20.00

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

The above measurements are true pulse readings and therefore a Duty Cycling correction factor is not required.

Equipment Configuration for Peak Transmit Power			
Variant:	802.11n HT-40	**Duty Cycle (%):**	89.5
Data Rate:	13.50 MBit/s	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power (dBm) Port(s)				Calculated Total Power	Minimum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dB	
5270.0	17.62				17.62	50.822	22.00	-4.38	19.00
5310.0	17.39				17.39	50.661	22.00	-4.61	19.00

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

The above measurements are true pulse readings and therefore a Duty Cycling correction factor is not required.

Equipment Configuration for Peak Transmit Power			
Variant:	802.11a	**Duty Cycle (%):**	97.5
Data Rate:	6.00 MBit/s	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power (dBm) Port(s)				Calculated Total Power	Minimum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dB	
5500.0	18.91				18.91	26.212	22.00	-3.09	20.00
5580.0	19.81				19.81	26.373	22.00	-2.19	20.00
5720.0	19.56				19.56	27.335	22.00	-2.44	20.00

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

The above measurements are true pulse readings and therefore a Duty Cycling correction factor is not required.

Equipment Configuration for Peak Transmit Power			
Variant:	802.11ac-80	**Duty Cycle (%):**	80.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power (dBm) Port(s)				Calculated Total Power	Minimum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dB	
5530.0	7.14				7.14	103.888	22.00	-14.86	7.00
5610.0	17.57				17.57	102.285	22.00	-4.43	18.00
5690.0	17.36				17.36	100.681	22.00	-4.64	18.00

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

The above measurements are true pulse readings and therefore a Duty Cycling correction factor is not required.

Equipment Configuration for Peak Transmit Power			
Variant:	802.11n HT-20	**Duty Cycle (%):**	96.4
Data Rate:	6.50 MBit/s	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power (dBm) Port(s)				Calculated Total Power	Minimum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dB	
5500.0	18.81				18.81	26.693	22.00	-3.19	20.00
5580.0	19.71				19.71	26.293	22.00	-2.29	20.00
5720.0	19.45				19.45	27.575	22.00	-2.55	20.00

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

The above measurements are true pulse readings and therefore a Duty Cycling correction factor is not required.

Equipment Configuration for Peak Transmit Power			
Variant:	802.11n HT-40	**Duty Cycle (%):**	89.5
Data Rate:	13.50 MBit/s	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power (dBm) Port(s)				Calculated Total Power	Minimum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dB	
5510.0	16.24				16.24	50.822	22.00	-5.76	17.00
5550.0	16.91				16.91	50.982	22.00	-5.09	17.00
5710.0	16.95				16.95	51.303	22.00	-5.05	17.00

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

The above measurements are true pulse readings and therefore a Duty Cycling correction factor is not required.

9.2. 26 dB & 99% Bandwidth

Conducted Test Conditions for 26 dB and 99% Bandwidth			
Standard:	FCC CFR 47:15.407 ISED RSS-247	**Ambient Temp. (ºC):**	24.0 - 27.5
Test Heading:	26 dB and 99 % Bandwidth	**Rel. Humidity (%):**	32 - 45
Standard Section(s):	15.407 (a) RSS-247 Sect 6.2	**Pressure (mBars):**	999 - 1001
Reference Document(s):	See Normative References		

Test Procedure for 26 dB and 99% Bandwidth Measurement
The bandwidth at 26 dB and 99 % is measured with a spectrum analyzer connected to the antenna terminal, while EUT is operating in transmission mode at the appropriate center frequency. The Resolution Bandwidth was set to approximately 1% of the emission bandwidth.
Testing was performed under ambient conditions at nominal voltage. Where the device operated with multiple antenna ports i.e. MIMO device, each port was measured and reported.

Test configuration and setup used for the measurement was per the Conducted Test Set-up section specified in this document.

Equipment Configuration for 26 dB & 99% Occupied Bandwidth			
Variant:	802.11a	**Duty Cycle (%):**	97.5
Data Rate:	6.00 MBit/s	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz) Port(s)				26 dB Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5260.0	25.651				25.651	25.651		
5300.0	25.731				25.731	25.731		
5320.0	25.892				25.892	25.892		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5260.0	17.715				17.715	17.715		
5300.0	17.635				17.635	17.635		
5320.0	17.796				17.796	17.796		

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

MiCOM Labs, 575 Boulder Court, Pleasanton, California 94566 USA, Phone: +1 (925) 462 0304, Fax: +1 (925) 462 0306, www.micomlabs.com

Equipment Configuration for 26 dB & 99% Occupied Bandwidth			
Variant:	802.11ac-80	**Duty Cycle (%):**	80.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	
TPC:	Not Applicable	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz) Port(s)				26 dB Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5290.0	103.567				103.567	103.567		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5290.0	77.916				77.916	77.916		

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

Equipment Configuration for 26 dB & 99% Occupied Bandwidth			
Variant:	802.11n HT-20	**Duty Cycle (%):**	96.4
Data Rate:	6.50 MBit/s	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz) Port(s)				26 dB Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5260.0	31.904				31.904	31.904		
5300.0	25.892				25.892	25.892		
5320.0	26.293				26.293	26.293		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5260.0	19.078				19.078	19.078		
5300.0	18.758				18.758	18.758		
5320.0	18.758				18.758	18.758		

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

MiCOM Labs, 575 Boulder Court, Pleasanton, California 94566 USA, Phone: +1 (925) 462 0304, Fax: +1 (925) 462 0306, www.micomlabs.com

Equipment Configuration for 26 dB & 99% Occupied Bandwidth			
Variant:	802.11n HT-40	**Duty Cycle (%):**	89.5
Data Rate:	13.50 MBit/s	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz) Port(s)				26 dB Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5270.0	50.822				50.822	50.822		
5310.0	50.661				50.661	50.661		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5270.0	37.675				37.675	37.675		
5310.0	37.675				37.675	37.675		

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

Equipment Configuration for 26 dB & 99% Occupied Bandwidth			
Variant:	802.11a	**Duty Cycle (%):**	97.5
Data Rate:	6.00 MBit/s	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz) Port(s)				26 dB Bandwidth (MHz)			
MHz	a	b	c	d	Highest	Lowest		
5500.0	26.212				26.212	26.212		
5580.0	26.373				26.373	26.373		
5720.0	27.335				27.335	27.335		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	a	b	c	d	Highest	Lowest		
5500.0	17.715				17.715	17.715		
5580.0	17.796				17.796	17.796		
5720.0	17.796				17.796	17.796		

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

Equipment Configuration for 26 dB & 99% Occupied Bandwidth			
Variant:	802.11ac-80	**Duty Cycle (%):**	80.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz) Port(s)				26 dB Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5530.0	103.888				103.888	103.888		
5610.0	102.285				102.285	102.285		
5690.0	100.681				100.681	100.681		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5530.0	77.275				77.275	77.275		
5610.0	77.595				77.595	77.595		
5690.0	77.916				77.916	77.916		

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

Equipment Configuration for 26 dB & 99% Occupied Bandwidth			
Variant:	802.11n HT-20	**Duty Cycle (%):**	96.4
Data Rate:	6.50 MBit/s	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz) Port(s)				26 dB Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5500.0	26.693				26.693	26.693		
5580.0	26.293				26.293	26.293		
5720.0	27.575				27.575	27.575		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5500.0	18.758				18.758	18.758		
5580.0	18.677				18.677	18.677		
5720.0	18.838				18.838	18.838		

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

Equipment Configuration for 26 dB & 99% Occupied Bandwidth			
Variant:	802.11n HT-40	**Duty Cycle (%):**	89.5
Data Rate:	13.50 MBit/s	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz) Port(s)				26 dB Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5510.0	50.822				50.822	50.822		
5550.0	50.982				50.982	50.982		
5710.0	51.303				51.303	51.303		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5510.0	37.675				37.675	37.675		
5550.0	37.675				37.675	37.675		
5710.0	37.675				37.675	37.675		

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

9.3. Power Spectral Density

Conducted Test Conditions for Power Spectral Density			
Standard:	FCC CFR 47:15.407 ISED RSS-247	**Ambient Temp. (ºC):**	24.0 - 27.5
Test Heading:	Power Spectral Density	**Rel. Humidity (%):**	32 - 45
Standard Section(s):	15.407 (a) RSS-247 Sect 6.2	**Pressure (mBars):**	999 - 1001
Reference Document(s):	See Normative References		

Test Procedure for Power Spectral Density
The in-band power spectral density was measured using the test technique specified in KDB 789033. A 1 MHz measurement bandwidth was implemented for the analyzer sweep. Once the sweep is complete the analyzer trace data is downloaded and used for post processing purposes.
Where the device operated with multiple antenna ports i.e. MIMO device, each port was measured separately. The Peak Power Spectral Density is the highest level found across the emission bandwidth. With multiple antenna port measurements the numerical analyzer data from each port is summed (å) and a link to this additional graphic is provided.

Test configuration and setup used for the measurement was per the Conducted Test Set-up section specified in this document.

Measure and sum the spectra across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The individual spectra are then summed mathematically in linear power units. Unlike in-band power measurements, in which the sum involves a single measured value (output power) from each output, measurements for compliance with PSD limits involve summing entire spectra across corresponding frequency bins on the various outputs. Consistency is maintained for any device with multiple transmitter outputs to be certain the individual outputs are all aligned with the same span and same number of points. In this instance, the linear power spectrum value within the first spectral bin of output 0 is summed with that in the first spectral bin of output 1, and the first spectral bin of output 2, and so on up to the Nth output to obtain the true value for the first frequency bin of the summed spectrum. The summed spectrum value for each frequency bin is computed in this fashion. These summed spectral values were post processed and the resulting numerical and graphical data presented.

NOTE: It may be observed that spectrum in some plots break the limit line however this in itself does NOT constitute a failure. In all cases a spectrum summation plot is provided in order to prove compliance. A failure occurs only after the summation of all spectrum plots have been summed and are found to be greater than the limit line.

Supporting Information
Calculated Power = A + 10 log (1/x) dBm
A = Total Power Spectral Density [10*Log10 ($10^{a/10}$ + $10^{b/10}$ + $10^{c/10}$ + $10^{d/10}$)]
x = Duty Cycle

Limits Power Spectral Density

Operating Frequency Band 5250-5350 and 5470 – 5725 MHz

15. 407 (a)(2)
For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Equipment Configuration for Power Spectral Density			
Variant:	802.11a	**Duty Cycle (%):**	97.5
Data Rate:	6.00 MBit/s	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/MHz)				Summation Peak Marker + DCCF (+0.09 dB)	Limit	Margin
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dB
5260.0	6.700				6.810	9.0	-2.2
5300.0	6.285				6.395	9.0	-2.6
5320.0	6.329				6.439	9.0	-2.6

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

DCCF - Duty Cycle Correction Factor

Note: click the links in the above matrix to view the graphical image (plot).

Equipment Configuration for Power Spectral Density			
Variant:	802.11ac-80	**Duty Cycle (%):**	79.6
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	
TPC:	Not Applicable	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/MHz)				Summation Peak Marker + DCCF (+0.97 dB)	Limit	Margin
MHz	**a**	**b**	**c**	**d**	**dBm/MHz**	**dBm/MHz**	**dB**
5290.0	-8.744				-7.753	9.0	-16.8

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

DCCF - Duty Cycle Correction Factor

Note: click the links in the above matrix to view the graphical image (plot).

Equipment Configuration for Power Spectral Density			
Variant:	802.11n HT-20	**Duty Cycle (%):**	96.4
Data Rate:	6.50 MBit/s	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/MHz)				Summation Peak Marker + DCCF (+0.18 dB)	Limit	Margin
MHz	**a**	**b**	**c**	**d**	**dBm/MHz**	**dBm/MHz**	**dB**
5260.0	5.992				6.151	9.0	-2.8
5300.0	5.822				5.981	9.0	-3.0
5320.0	5.808				5.967	9.0	-3.0

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

DCCF - Duty Cycle Correction Factor

Note: click the links in the above matrix to view the graphical image (plot).

Equipment Configuration for Power Spectral Density			
Variant:	802.11n HT-40	**Duty Cycle (%):**	96.4
Data Rate:	13.50 MBit/s	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/MHz)				Summation Peak Marker + DCCF (+0.18 dB)	Limit	Margin
MHz	**a**	**b**	**c**	**d**	**dBm/MHz**	**dBm/MHz**	**dB**
5270.0	3.901				4.060	9.0	-4.9
5310.0	3.439				3.921	9.0	-5.1

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

DCCF - Duty Cycle Correction Factor

Note: click the links in the above matrix to view the graphical image (plot).

Equipment Configuration for Power Spectral Density			
Variant:	802.11a	**Duty Cycle (%):**	97.5
Data Rate:	6.00 MBit/s	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/MHz)				Summation Peak Marker + DCCF (+0.09 dB)	Limit	Margin
MHz	**a**	**b**	**c**	**d**	**dBm/MHz**	**dBm/MHz**	**dB**
5500.0	7.429				7.539	9.0	-1.5
5580.0	7.562				7.672	9.0	-1.3
5720.0	7.561				7.671	9.0	-1.3

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

DCCF - Duty Cycle Correction Factor

Note: click the links in the above matrix to view the graphical image (plot).

Equipment Configuration for Power Spectral Density			
Variant:	802.11ac-80	**Duty Cycle (%):**	80.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/MHz)				Summation Peak Marker + DCCF (+0.97 dB)	Limit	Margin
MHz	**a**	**b**	**c**	**d**	**dBm/MHz**	**dBm/MHz**	**dB**
5530.0	-10.455				-9.486	9.0	-18.5
5610.0	-0.280				-0.689	9.0	-8.3
5690.0	-0.519				-1.488	9.0	-7.5

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

DCCF - Duty Cycle Correction Factor

Note: click the links in the above matrix to view the graphical image (plot).

Equipment Configuration for Power Spectral Density			
Variant:	802.11n HT-20	**Duty Cycle (%):**	96.4
Data Rate:	6.50 MBit/s	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/MHz)				Summation Peak Marker + DCCF (+0.18 dB)	Limit	Margin
MHz	**a**	**b**	**c**	**d**	**dBm/MHz**	**dBm/MHz**	**dB**
5500.0	6.967				7.126	9.0	-1.9
5580.0	7.110				7.269	9.0	-1.7
5720.0	7.211				7.321	9.0	-1.7

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

DCCF - Duty Cycle Correction Factor

Note: click the links in the above matrix to view the graphical image (plot).

Equipment Configuration for Power Spectral Density			
Variant:	802.11n HT-40	**Duty Cycle (%):**	89.5
Data Rate:	13.50 MBit/s	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/MHz)				Summation Peak Marker + DCCF (+0.46 dB)	Limit	Margin
MHz	**a**	**b**	**c**	**d**	**dBm/MHz**	**dBm/MHz**	**dB**
5510.0	1.607				2.089	9.0	-6.9
5550.0	2.024				2.506	9.0	-6.5
5710.0	2.164				2.646	9.0	-6.4

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

DCCF - Duty Cycle Correction Factor

Note: click the links in the above matrix to view the graphical image (plot).

9.4. Dynamic Frequency Selection (DFS)

Test Conditions for Dynamic Frequency Selection (DFS)			
Standard:	FCC 15.407 ISED RSS-247	**Ambient Temp. (ºC):**	20.0 - 24.5
Test Heading:	Dynamic Frequency Selection (DFS)	**Rel. Humidity (%):**	32 - 45
Standard Section(s):	KDB 905462 RSS-247 Sect 6.3	**Pressure (mBars):**	999 - 1001
EUT Type:	Master	**Frequency Bands:**	5,250 – 5,350 MHz 5,470 – 5,725 MHz
Test Environment:	Conducted	**Antenna Gain used for Testing:**	8.0 dBi
Detection Threshold:	-64 dBm	**Test Radar Level: (Threshold + Gain)**	-56 dBm
Number of Antenna Chains:	1	**Duty Cycle Target:**	≥ 17.00%
Transmit Power:	+23 dBm	**Minimum Data Rate:**	11a: 6 Mbit/s HT40: MCS0 AC80: NSS1-MCS0
Uniform Loading:	For the above frequency band(s) the manufacturer declared that the device provides an aggregate uniform loading of the spectrum across all devices by selecting an operating channel among the available channels using a random algorithm.		
Communication Method:	The requisite MPEG video file (“TestFile.mpg” available on the NTIA website at the following link http://ntiacsd.ntia.doc.gov/dfs/) is used during this video stream. iPerf is used in cases where the video stream does not provide the necessary load.		
Engineer Notes:			

Master Devices

a) The Master Device will use DFS in order to detect Radar Waveforms with received signal strength above the DFS Detection Threshold in the 5250 − 5350 MHz and 5470 − 5725 MHz bands. DFS is not required in the 5150 − 5250 MHz or 5725 – 5850 MHz bands.

b) Before initiating a network on a Channel, the Master Device will perform a Channel Availability Check for a specified time duration (Channel Availability Check Time) to ensure that there is no radar system operating on the Channel, using DFS described under subsection a) above.

c) The Master Device initiates a U-NII network by transmitting control signals that will enable other U-NII devices to Associate with the Master Device.

d) During normal operation, the Master Device will monitor the Channel (In-Service Monitoring) to ensure that there is no radar system operating on the Channel, using DFS described under a).

e) If the Master Device has detected a Radar Waveform during In-Service Monitoring as described under d), the Operating Channel of the U-NII network is no longer an Available Channel. The Master Device will instruct all associated Client Device(s) to stop transmitting on this Channel within the Channel Move Time. The transmissions during the Channel Move Time will be limited to the Channel Closing Transmission Time.

f) Once the Master Device has detected a Radar Waveform it will not utilize the Channel for the duration of the Non-Occupancy Period.

g) If the Master Device delegates the In-Service Monitoring to a Client Device, then the combination will be tested to the requirements described under d) through f) above.

9.4.1. Dynamic Frequency Selection (DFS) Overview

A U-NII network will employ a DFS function to detect signals from radar systems and to avoid co-channel operation with these systems. This applies to the 5250-5350 MHz and/or 5470-5725 MHz bands. Within the context of the operation of the DFS function, a U-NII device will operate in either Master Mode or Client Mode. U-NII devices operating in Client Mode can only operate in a network controlled by a U-NII device operating in Master Mode. The following tables summarize the requirements.

Requirement	Master Device or Client with Radar Detection	Client without Radar Detection
	Operational Mode	
DFS Detection Threshold	Yes	Not Required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not Required

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required

NOTE: Frequencies selected for statistical performance check should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

9.4.2. DFS Detection Thresholds

The table below provides the DFS Detection Thresholds for Master Devices as well as Client Devices incorporating In-Service Monitoring.

DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	Value (see Notes 1, 2 and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power density <10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

NOTE 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna

NOTE 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

NOTE 3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

9.4.3. Response Requirements

The following table provides the response requirements for Master and Client Devices incorporating DFS.

DFS Response Requirement Values

Parameter	Value
Non-Occupancy Period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds, see NOTE 1
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period, see NOTES 1 and 2
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth, see NOTE 3

NOTE 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

NOTE 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

NOTE 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

9.4.4. Radar Test Waveforms

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

9.4.4.1. Short Radar Pulses

Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (µS)	PRI (µS)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	$\text{Roundup}\left\{\left(\frac{1}{360}\right)\cdot\left(\frac{19\cdot 10^6}{\text{PRI}_{\text{usec}}}\right)\right\}$	60%	30
		Test B: 15 unique PRI values randomly selected in the range 518-3066 µS, with a minimum increment of 1 µS, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120

Note 1: Short Radar Pulse Type 0 should be used for the Detection Bandwidth test, Channel Move Time and Channel Closing Time tests

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B.

9.4.4.2. Long Radar Pulse Test

Long Pulse Radar Test Waveforms

Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

The parameters for this waveform are randomly chosen. Thirty unique waveforms are required for the Long Pulse radar test signal. If more than 30 waveforms are used for the Long Pulse radar test signal, then each additional waveform must also be unique and not repeated from the previous waveforms.

Each waveform is defined as follows:

1. The transmission period for the Long Pulse Radar test signal is 12 seconds.

2. There are a total of 8 to 20 Bursts in the 12 second period, with the number of Bursts being randomly chosen. This number is Burst Count.

3. Each Burst consists of 1 to 3 pulses, with the number of pulses being randomly chosen. Each Burst within the 12 second sequence may have a different number of pulses.

4. The pulse width is between 50 and 100 microseconds, with the pulse width being randomly chosen. Each pulse within a Burst will have the same pulse width. Pulses in different Bursts may have different pulse widths.

5. Each pulse has a linear FM chirp between 5 and 20 MHz, with the chirp width being randomly chosen. Each pulse within a Burst will have the same chirp width. Pulses in different Bursts may have different chirp widths. The chirp is centered on the pulse. For example, with a radar frequency of 5300 MHz and a 20 MHz chirped signal, the chirp starts at 5290 MHz and ends at 5310 MHz.

6. If more than one pulse is present in a Burst, the time between the pulses will be between 1000 and 2000 microseconds, with the time being randomly chosen. If three pulses are present in a Burst, the time between the first and second pulses is chosen independently of the time between the second and third pulses.

7. The 12 second transmission period is divided into even intervals. The number of intervals is equal to Burst_Count. Each interval is of length (12,000,000 / Burst_Count) microseconds. Each interval contains one Burst. The start time for the Burst, relative to the beginning of the interval, is between 1 and [(12,000,000 / Burst_Count) – (Total Burst Length) + (One Random PRI Interval)] microseconds, with the start time being randomly chosen. The step interval for the start time is 1 microsecond. The start time for each Burst is chosen independently.

A representative example of a Long Pulse radar test waveform:

1. The total test signal length is 12 seconds.

2. 8 Bursts are randomly generated for the Burst_Count

3. Burst 1 has 2 randomly generated pulses.

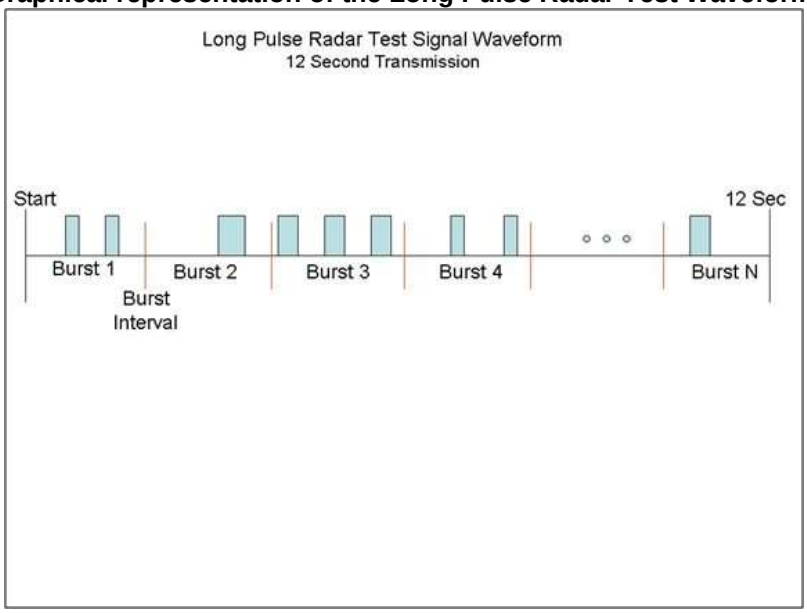
4. The pulse width (for both pulses) is randomly selected to be 75 microseconds.

5. The PRI is randomly selected to be at 1213 microseconds.

6. Bursts 2 through 8 are generated using steps 3 – 5.

7. Each Burst is contained in even intervals of 1,500,000 microseconds. The starting location for Pulse 1, Burst 1 is randomly generated (1 to 1,500,000 minus the total Burst 1 length + 1 random PRI interval) at the 325,001 microsecond step. Bursts 2 through 8 randomly fall in successive 1,500,000 microsecond intervals (i.e. Burst 2 falls in the 1,500,001 – 3,000,000 microsecond range).

Graphical representation of the Long Pulse Radar Test Waveform.



9.4.4.3. Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (µsec)	PRI (µsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Trials
6	1	333	9	.333	300	70%	30

For the Frequency Hopping Radar Type, the same Burst parameters are used for each waveform. The hopping sequence is different for each waveform and a 100-length segment is selected from the hopping sequence defined by the following algorithm:

The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250 – 5724 MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues until all 475 frequencies are chosen for the set. For selection of a random frequency, the frequencies remaining within the group are always treated as equally likely.

9.4.5. Radar Waveform Calibration

The following equipment setup was used to calibrate the Radar Waveform. A spectrum analyzer was used to establish the test signal level for each radar type. During this process there were no transmissions by either the Master or Client Device. The spectrum analyzer was switched to the zero span (Time Domain) mode at the frequency of the Radar Waveform generator. Peak detection was utilized. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3 MHz.

The signal generator amplitude was set so that the power level measured at the spectrum analyzer was equal to the DFS detection threshold +1dB (Ref Section 9.2).

9.4.6. Channel Availability Check

9.4.6.4. Initial CAC

This test verifies that the EUT does not emit pulse, control, or data signals on the test Channel until the power-up sequence has been completed and the U-NII device checks for Radar Waveforms for one minute on the test Channel. This test does not use any Radar Waveforms.

The EUT is instructed to power up at the appropriate center frequency. The spectrum analyzer is set on zero span with a 1 MHz resolution bandwidth and 300 second sweep time to monitor the RF output of the EUT during power up. The analyzer's sweep will be started the same time power is applied to the U-NII device.

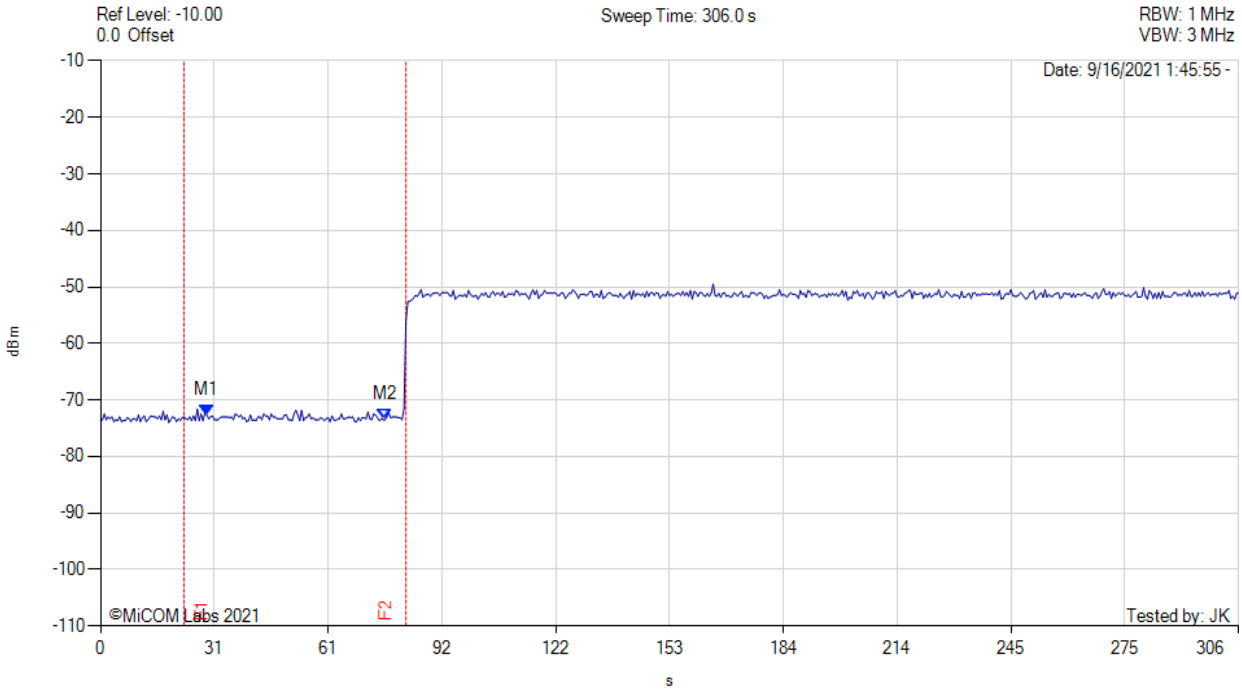
The EUT should not transmit any pulse or data transmissions until at least 1 minute after the completion of the power-on cycle.

The first red vertical line shown on the following plot denotes the instant when the EUT completes its power-up sequence i.e. T0 (as defined within the FCC's KDB 905462 D02 Section 4.1). The power-up reference T0 is determined by the time it takes for the EUT to start "beaconing" i.e. initial beacon - 60 secs = end of power-up.

The Channel Availability Check Time commences at instant T0 and will end no sooner than T0 + 60 seconds. T0 + 60 is indicated on the plot by the second vertical line.

INITIAL CAC

Variant: 802.11ac-80, Channel: 5530.00 MHz, Data Rate: MCS0, Duty Cycle: 0.10%, Antenna Gain: 8.00 dBi



Analyzer Setup	Marker:Time:Amplitude	Test Results
Detector = POS Sweep Count = View RF Atten (dB) = 0 Trace Mode = 0	M1 : 28.563 s : -72.660 dBm M2 : 76.508 s : -73.500 dBm	Channel Frequency: 5530.00 MHz Observed Frequency: 5500.00 MHz

9.4.6.5. Beginning CAC

The steps below define the procedure to verify successful radar detection on the selected Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold +1dB (Ref Section 9.2) occurs at the beginning of the Channel Availability Check Time.

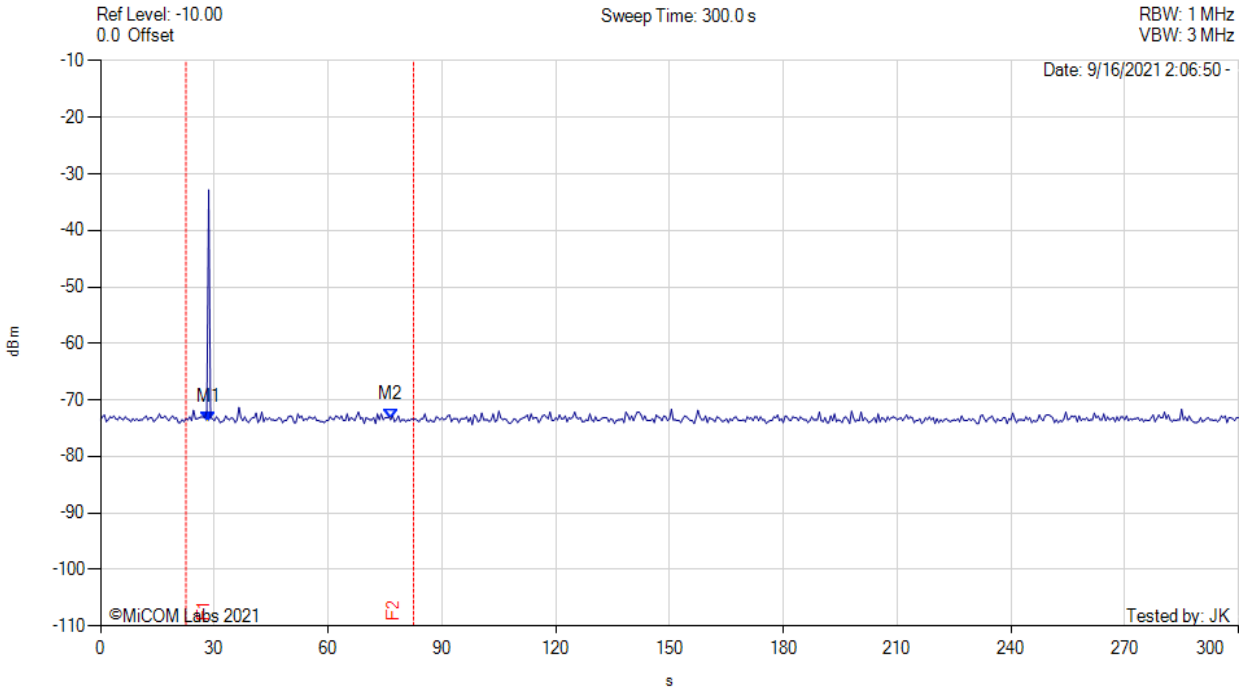
A single Burst of short pulse of radar Type 1 will commence within a 6 second window starting at T0 (first red vertical marker line on the plot).

Visual indication on the EUT of successful detection of the radar Burst is recorded and reported. Observation of emissions at the appropriate center frequency will continue for 2.5 minutes after the radar burst has been generated.

T0 + 60 is indicated on the plot by the second vertical line.

BEGINNING CAC

Variant: 802.11ac-80, Channel: 5530.00 MHz, Data Rate: MCS0, Duty Cycle: 0.10%, Antenna Gain: 8.00 dBi



Analyzer Setup	Marker:Time:Amplitude	Test Results
Detector = POS Sweep Count = View RF Atten (dB) = 0 Trace Mode = 0	M1 : 28.500 s : -74.000 dBm M2 : 76.500 s : -73.500 dBm	Channel Frequency: 5530.00 MHz Observed Frequency: 5500.00 MHz

9.4.6.6. End CAC

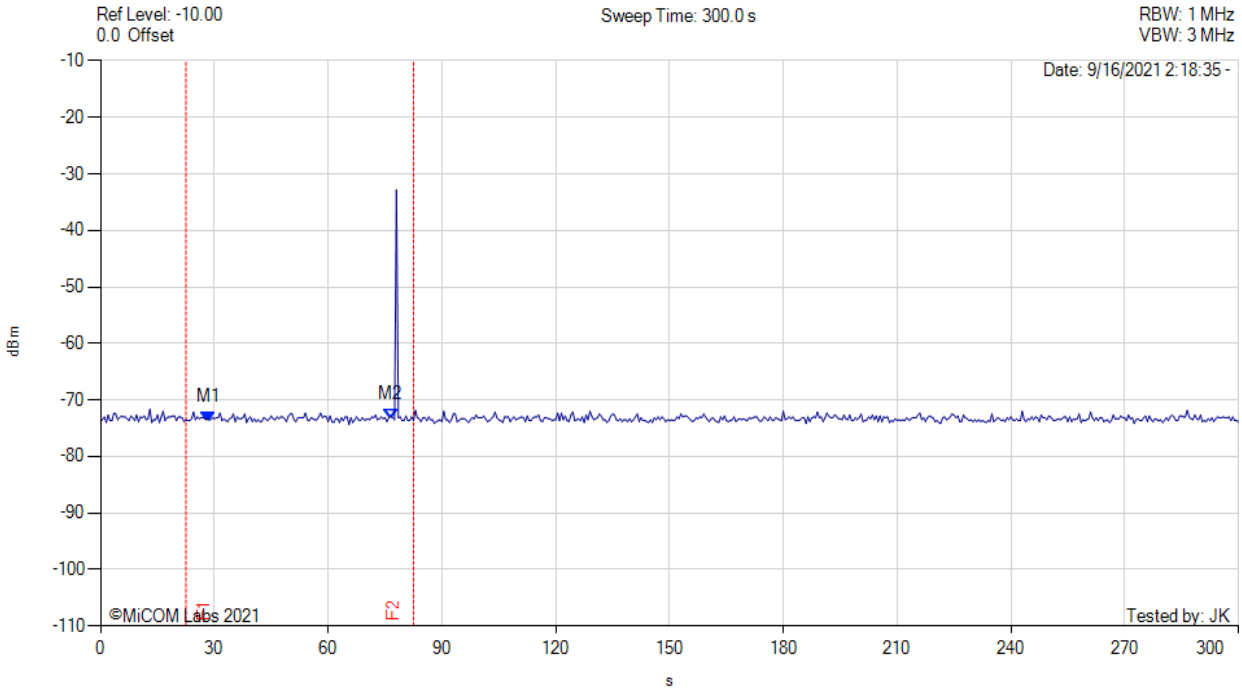
The steps below define the procedure to verify successful radar detection on the selected Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold occurs at the end of the Channel Availability Check Time.

A single Burst of short pulse of radar Type 1 will commence within a 6 second window starting at T0 + 54 seconds. The window will commence at marker 3 and end at the red time line T2 (T0 + 60 secs)

Visual indication on the EUT of successful detection of the radar Burst is recorded and reported. Observation of emissions at the appropriate center frequency will continue for 2.5 minutes after the radar burst has been generated.

END CAC

Variant: 802.11ac-80, Channel: 5530.00 MHz, Data Rate: MCS0, Duty Cycle: 0.10%, Antenna Gain: 8.00 dBi



Analyzer Setup	Marker:Time:Amplitude	Test Results
Detector = POS Sweep Count = View RF Atten (dB) = 0 Trace Mode = 0	M1 : 28.500 s : -74.000 dBm M2 : 76.500 s : -73.500 dBm	Channel Frequency: 5530.00 MHz Observed Frequency: 5500.00 MHz

9.4.7. Channel Close / Transmission Time

The steps below define the procedure to determine the above-mentioned parameters when a radar burst with a level of up to 10 dB above the DFS Detection threshold is injected on the Operating Channel of the EUT.

Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the EUT during the observation time (Channel Move Time). Compare the Channel Move Time and Channel Closing Transmission Time results to the limits defined in the DFS Response requirement values table.

Channel Closing Transmission Time - Measurement
The reference radar signature was introduced to the EUT, from which a 11 second transmission record was captured, as well as 1000ms of pre-trigger data. The Reference radar type was triggered to play at the exact time allowing the end of the pulse to occur at time t=0.

The system was setup to capture data for all transmission events above a given threshold level as determined and adjusted by the test engineer. The system time stamps all captured events with respect to T0 (zero time indicating the start of the measurement sequence) starting at the end of the radar pulse indicated by the purple vertical marker line in the Plot (on the next page).

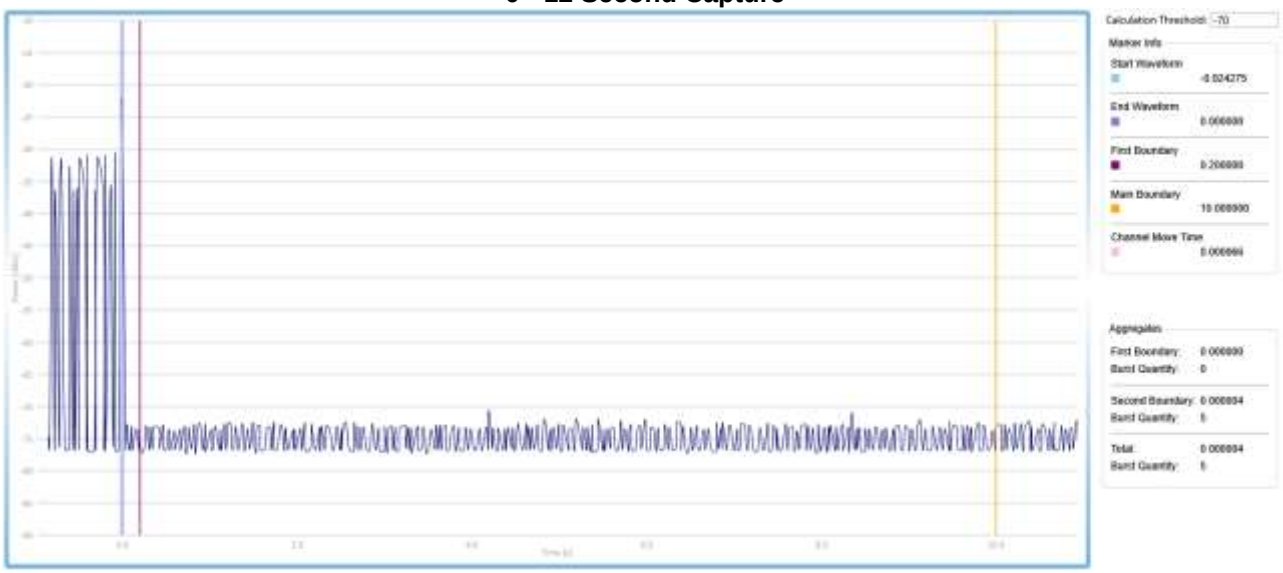
The system captured data over a 12 second period at 10 points per microsecond. The data is analyzed by counting all “bursts” that occur above the threshold limit and aggregating the time each burst is on. The data is then compressed for presentation in one 12 second segment showing all of the activity recorded over the period.

80 MHz Channel 5530 MHz; Monitored Frequency: 5500 MHz

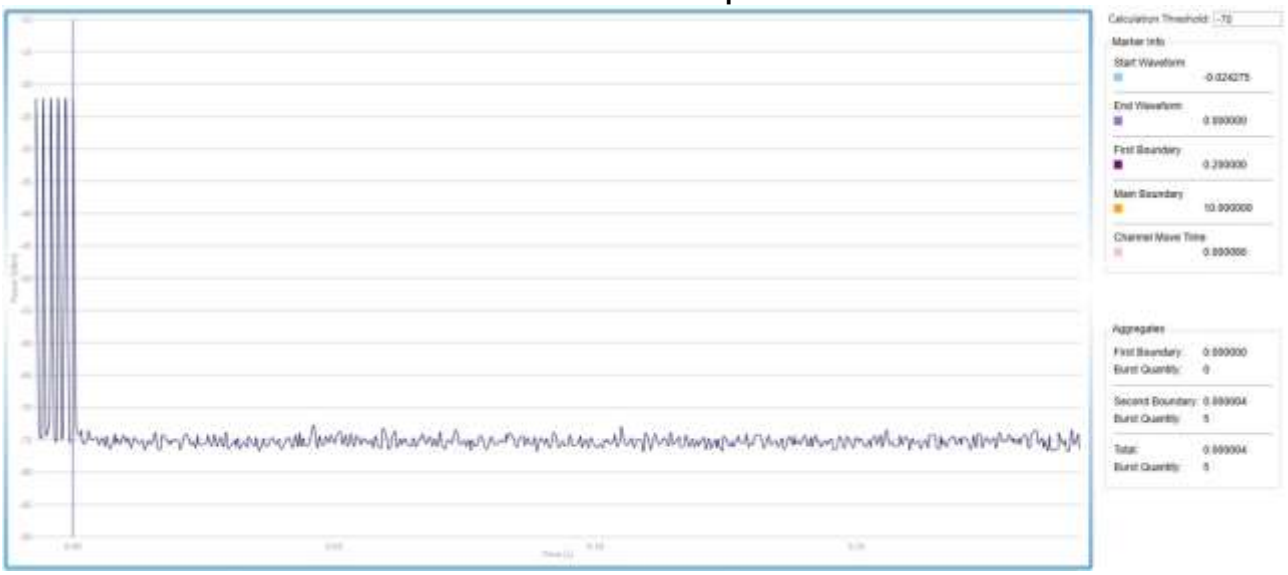
The system measures and aggregates the pulses occurring after the end of the radar pulse to determine the following parameters:

Test Heading	Time (Secs)	Limit (Secs)	Status
Channel Closing Transmission Time	0.000004	0.260	Complies
Channel Move Time	0.000066	10.0	Complies

Channel Move Time
0 - 12 Second Capture



Channel Closing Time
0 – 0.2 Second Capture

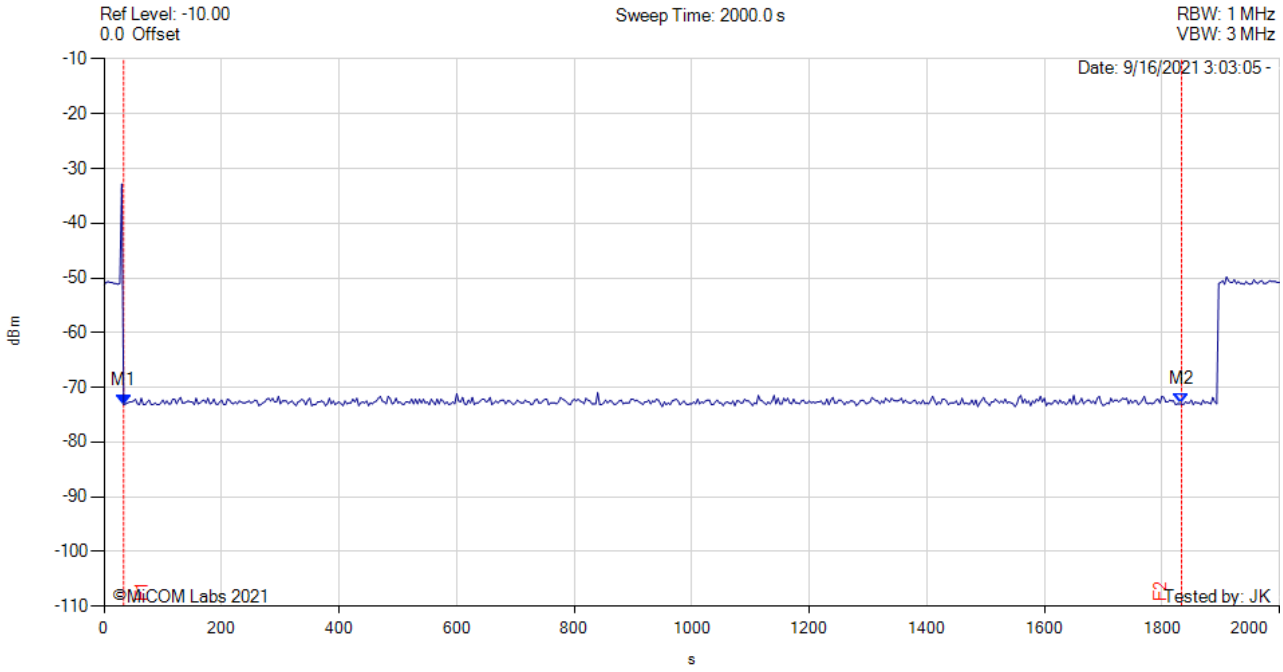


9.4.8. Non-Occupancy Period

The EUT is monitored for more than 30 minutes following the channel close/move time to verify no transmissions resume on this Channel. There should be no transmissions on the frequency of interest during the non-occupancy period.

NON-OCCUPANCY PERIOD

Variant: 802.11ac-80, Channel: 5530.00 MHz, Data Rate: MCS0, Duty Cycle: 18.00%, Antenna Gain: 8.00 dBi



Analyzer Setup	Marker:Time:Amplitude	Test Results
Detector = POS Sweep Count = View RF Atten (dB) = 0 Trace Mode = 0	M1 : 33.333 s : -73.160 dBm M2 : 1833.333 s : -73.000 dBm	Channel Frequency: 5530.00 MHz Observed Frequency: 5500.00 MHz

9.4.9. Probability of Detection

The steps below define the procedure to determine the minimum percentage of detection when a radar burst with a level equal to the DFS Detection Threshold is generated on the Operating Channel of the U-NII device.

The Radar Waveform generator sends the individual waveform for each of the radar Types 1-6. Statistical data will be gathered to determine the ability of the device to detect the radar test waveforms. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs. The percentage of successful detection is calculated by:

Total # of detections ÷ Total # of Trials × 100 = Probability of Detection

The Minimum number of trails, minimum percentage of successful detection and the average minimum percentage of successful detection are found in the Radar Test Waveforms section.

The aggregate is the average of the percentage of successful detections of Short Pulse Radar Types 1-4. For example, the following table indicates how to compute the aggregate of percentage of successful detections;

Example - Calculation of Aggregate Percentage

Radar Type	Number of Trials	Number of Successful Detections	Percentage of Successful Detections
1	35	29	82.9%
2	30	18	60.0%
3	30	27	90.0%
4	30	44	88.0%
Aggregate (82.9% + 60.0% + 90.0% +88.0%) / 4 = 80.2%			

802.11a - 5500 MHz

Statistical Performance Check					
Radar Type	**Number of Trials**	**Number of Successful Detections**	**Percentage of Successful Detections**	**Result**	**Data Link**
Radar Type 1	30	29	96.67%	Complies	View Data
Radar Type 2	30	27	90.00%	Complies	View Data
Radar Type 3	30	29	96.67%	Complies	View Data
Radar Type 4	30	24	80.00%	Complies	View Data
Aggregate (96.67% + 90.00% + 96.67% + 80.00%) / 4 = 90.84%				Complies	--
Radar Type 5	30	30	100.00%	Complies	View Data
Radar Type 6	30	26	86.67%	Complies	View Data

802.11ac-80 - 5530 MHz

Statistical Performance Check					
Radar Type	**Number of Trials**	**Number of Successful Detections**	**Percentage of Successful Detections**	**Result**	**Data Link**
Radar Type 1	30	29	96.67%	Complies	View Data
Radar Type 2	30	30	100.00%	Complies	View Data
Radar Type 3	30	29	96.67%	Complies	View Data
Radar Type 4	30	24	80.00%	Complies	View Data
Aggregate (96.67% + 100.00% + 96.67% + 80.00%) / 4 = 93.34%				Complies	--
Radar Type 5	31	26	83.87%	Complies	View Data
Radar Type 6	30	30	100.00%	Complies	View Data

802.11n HT-40 - 5510 MHz

Statistical Performance Check					
Radar Type	**Number of Trials**	**Number of Successful Detections**	**Percentage of Successful Detections**	**Result**	**Data Link**
Radar Type 1	30	29	96.67%	Complies	View Data
Radar Type 2	30	27	90.00%	Complies	View Data
Radar Type 3	30	28	93.33%	Complies	View Data
Radar Type 4	30	26	86.67%	Complies	View Data
Aggregate (96.67% + 90.00% + 93.33% + 86.67%) / 4 = 91.67%				Complies	--
Radar Type 5	30	30	100.00%	Complies	View Data
Radar Type 6	30	29	96.67%	Complies	View Data

Equipment Configuration for Radar Type 1

Variant:	802.11a	**Duty Cycle (%):**	20.00
Data Rate:	6 Mbit/s	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y):**	Not Applicable
Channel Frequency:	5500.00 MHz	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Frequency (MHz)	Pulse Width (us)	PRI (us)	# Pulses	Injections	Detections	Detection Rate	Result
5502	1	818	65	1	1	100.00	Detected
5492	1	678	78	1	1	100.00	Detected
5491	1	718	74	1	1	100.00	Detected
5491	1	838	63	1	1	100.00	Detected
5499	1	698	76	1	1	100.00	Detected
5492	1	558	95	1	1	100.00	Detected
5509	1	538	99	1	1	100.00	Detected
5504	1	758	70	1	1	100.00	Detected
5499	1	3066	18	1	1	100.00	Detected
5491	1	598	89	1	1	100.00	Detected
5495	1	658	81	1	1	100.00	Detected
5498	1	798	67	1	1	100.00	Detected
5496	1	938	57	1	1	100.00	Detected
5495	1	898	59	1	1	100.00	Detected
5492	1	878	61	1	1	100.00	Detected
5508	1	918	58	1	1	100.00	Detected
5503	1	2091	26	1	1	100.00	Detected
5492	1	2254	24	1	1	100.00	Detected
5501	1	1114	48	1	1	100.00	Detected
5497	1	1555	34	1	1	100.00	Detected
5500	1	2418	22	1	1	100.00	Detected
5493	1	915	58	1	0	0.00	Not Detected
5493	1	1872	29	1	1	100.00	Detected
5492	1	1506	36	1	1	100.00	Detected
5495	1	1872	29	1	1	100.00	Detected
5508	1	2839	19	1	1	100.00	Detected
5498	1	2849	19	1	1	100.00	Detected
5497	1	1270	42	1	1	100.00	Detected
5501	1	701	76	1	1	100.00	Detected
5492	1	1042	51	1	1	100.00	Detected
			Aggregate:	**30**	**29**	**96.67**	**Pass**

Equipment Configuration for Radar Type 2

Variant:	802.11a	**Duty Cycle (%):**	20.00
Data Rate:	6 Mbit/s	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y):**	Not Applicable
Channel Frequency:	5500.00 MHz	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Frequency (MHz)	Pulse Width (us)	PRI (us)	# Pulses	Injections	Detections	Detection Rate	Result
5494	3.5	206	26	1	0	0.00	Not Detected
5494	2.8	177	29	1	1	100.00	Detected
5491	4.5	166	27	1	1	100.00	Detected
5502	3.5	190	24	1	1	100.00	Detected
5495	2.6	211	29	1	1	100.00	Detected
5506	3.5	193	28	1	1	100.00	Detected
5491	3.1	201	27	1	1	100.00	Detected
5505	2.5	151	24	1	1	100.00	Detected
5496	1.8	174	23	1	0	0.00	Not Detected
5499	3.7	228	23	1	1	100.00	Detected
5504	2.8	165	27	1	1	100.00	Detected
5504	2.2	212	25	1	1	100.00	Detected
5498	1.5	155	24	1	1	100.00	Detected
5496	1.9	180	27	1	1	100.00	Detected
5492	4.4	188	27	1	1	100.00	Detected
5506	3.5	165	27	1	1	100.00	Detected
5507	1.2	178	25	1	1	100.00	Detected
5497	2.5	211	26	1	1	100.00	Detected
5499	3.7	160	25	1	1	100.00	Detected
5499	4.5	159	28	1	1	100.00	Detected
5505	2	172	27	1	1	100.00	Detected
5496	4.5	218	23	1	0	0.00	Not Detected
5506	3.9	153	27	1	1	100.00	Detected
5494	2.3	171	23	1	1	100.00	Detected
5495	3.2	216	27	1	1	100.00	Detected
5508	2.5	155	23	1	1	100.00	Detected
5498	3.1	207	27	1	1	100.00	Detected
5492	4.9	162	24	1	1	100.00	Detected
5504	4	221	27	1	1	100.00	Detected
5497	3.2	175	29	1	1	100.00	Detected
			Aggregate:	**30**	**27**	**90.00**	**Pass**

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Equipment Configuration for Radar Type 3

Variant:	802.11a	**Duty Cycle (%):**	20.00
Data Rate:	6 Mbit/s	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y):**	Not Applicable
Channel Frequency:	5500.00 MHz	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Frequency (MHz)	Pulse Width (us)	PRI (us)	# Pulses	Injections	Detections	Detection Rate	Result
5494	7.2	372	17	1	1	100.00	Detected
5497	6.7	307	16	1	1	100.00	Detected
5498	6.1	237	18	1	1	100.00	Detected
5491	7.7	435	17	1	1	100.00	Detected
5494	6.9	276	18	1	1	100.00	Detected
5494	6.8	487	18	1	1	100.00	Detected
5501	9.3	454	17	1	1	100.00	Detected
5499	8.8	424	18	1	1	100.00	Detected
5495	9.4	350	17	1	1	100.00	Detected
5506	7.8	420	16	1	1	100.00	Detected
5493	8.4	270	16	1	0	0.00	Not Detected
5507	7.1	249	16	1	1	100.00	Detected
5509	7.9	321	16	1	1	100.00	Detected
5496	8.1	442	18	1	1	100.00	Detected
5497	8.9	211	17	1	1	100.00	Detected
5497	9.6	400	18	1	1	100.00	Detected
5496	7.7	389	16	1	1	100.00	Detected
5508	6.6	382	18	1	1	100.00	Detected
5500	6.3	393	17	1	1	100.00	Detected
5509	9.6	496	16	1	1	100.00	Detected
5503	8.1	344	18	1	1	100.00	Detected
5496	8.5	318	18	1	1	100.00	Detected
5491	8.1	286	16	1	1	100.00	Detected
5499	7	455	16	1	1	100.00	Detected
5508	8.1	434	17	1	1	100.00	Detected
5503	9.9	319	18	1	1	100.00	Detected
5507	8.8	386	16	1	1	100.00	Detected
5507	7	201	17	1	1	100.00	Detected
5505	9	444	18	1	1	100.00	Detected
5499	8.8	327	17	1	1	100.00	Detected
			Aggregate:	**30**	**29**	**96.67**	**Pass**

Equipment Configuration for Radar Type 4

Variant:	802.11a	**Duty Cycle (%):**	20.00
Data Rate:	6 Mbit/s	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y):**	Not Applicable
Channel Frequency:	5500.00 MHz	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Frequency (MHz)	Pulse Width (us)	PRI (us)	# Pulses	Injections	Detections	Detection Rate	Result
5491	19.2	244	14	1	0	0.00	Not Detected
5507	15.8	288	13	1	1	100.00	Detected
5495	14.6	385	14	1	1	100.00	Detected
5493	16	390	15	1	1	100.00	Detected
5493	16.9	227	15	1	1	100.00	Detected
5491	12.4	454	15	1	1	100.00	Detected
5500	18.5	298	15	1	0	0.00	Not Detected
5499	11.4	444	13	1	1	100.00	Detected
5492	12.1	321	15	1	1	100.00	Detected
5506	20	491	13	1	1	100.00	Detected
5498	14.3	205	14	1	1	100.00	Detected
5503	16	303	12	1	1	100.00	Detected
5493	12	404	15	1	1	100.00	Detected
5502	18.4	394	16	1	1	100.00	Detected
5492	14.1	467	12	1	0	0.00	Not Detected
5494	16.6	443	12	1	1	100.00	Detected
5502	14.4	307	16	1	1	100.00	Detected
5493	19	463	12	1	1	100.00	Detected
5504	17.8	262	15	1	1	100.00	Detected
5493	14.3	248	16	1	1	100.00	Detected
5500	12.3	366	13	1	1	100.00	Detected
5497	11.3	388	13	1	0	0.00	Not Detected
5500	15.8	406	14	1	1	100.00	Detected
5493	19.5	238	15	1	1	100.00	Detected
5501	18.5	468	13	1	1	100.00	Detected
5494	14.2	212	13	1	0	0.00	Not Detected
5495	15.9	228	16	1	1	100.00	Detected
5502	11.1	422	15	1	1	100.00	Detected
5494	19.4	361	12	1	0	0.00	Not Detected
5492	15.3	446	14	1	1	100.00	Detected
			Aggregate:	**30**	**24**	**80.00**	**Pass**

Equipment Configuration for Radar Type 5

Variant:	802.11a	**Duty Cycle (%):**	20.00
Data Rate:	6 Mbit/s	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y):**	Not Applicable
Channel Frequency:	5500.00 MHz	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Burst Segment	Injections	Detections	Detection Rate	Result
Type 5 #1 5500	1	1	100.00	Detected
Type 5 #2 5500	1	1	100.00	Detected
Type 5 #3 5503	1	1	100.00	Detected
Type 5 #4 5495	1	1	100.00	Detected
Type 5 #5 5500	1	1	100.00	Detected
Type 5 #6 5501	1	1	100.00	Detected
Type 5 #7 5500	1	1	100.00	Detected
Type 5 #8 5505	1	1	100.00	Detected
Type 5 #9 5498	1	1	100.00	Detected
Type 5 #10 5496	1	1	100.00	Detected
Type 5 #11 5500	1	1	100.00	Detected
Type 5 #12 5493	1	1	100.00	Detected
Type 5 #13 5500	1	1	100.00	Detected
Type 5 #14 5499	1	1	100.00	Detected
Type 5 #15 5495	1	1	100.00	Detected
Type 5 #16 5504	1	1	100.00	Detected
Type 5 #17 5500	1	1	100.00	Detected
Type 5 #18 5494	1	1	100.00	Detected
Type 5 #19 5500	1	1	100.00	Detected
Type 5 #20 5494	1	1	100.00	Detected
Type 5 #21 5500	1	1	100.00	Detected
Type 5 #22 5498	1	1	100.00	Detected
Type 5 #23 5499	1	1	100.00	Detected
Type 5 #24 5502	1	1	100.00	Detected
Type 5 #25 5506	1	1	100.00	Detected
Type 5 #26 5506	1	1	100.00	Detected
Type 5 #27 5500	1	1	100.00	Detected
Type 5 #28 5506	1	1	100.00	Detected
Type 5 #29 5503	1	1	100.00	Detected
Type 5 #30 5504	1	1	100.00	Detected
Aggregate:	**30**	**30**	**100.00**	**Pass**

Equipment Configuration for Radar Type 6			
Variant:	802.11a	**Duty Cycle (%):**	20.00
Data Rate:	6 Mbit/s	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y):**	Not Applicable
Channel Frequency:	5500.00 MHz	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Burst Segment	Detections	Injection #	Detection Rate	Result
Type 6 #1	1	1	100	Detected
Type 6 #2	1	1	100	Detected
Type 6 #3	1	0	0	Not Detected
Type 6 #4	1	1	100	Detected
Type 6 #5	1	1	100	Detected
Type 6 #6	1	1	100	Detected
Type 6 #7	1	1	100	Detected
Type 6 #8	1	1	100	Detected
Type 6 #9	1	1	100	Detected
Type 6 #10	1	1	100	Detected
Type 6 #11	1	1	100	Detected
Type 6 #12	1	1	100	Detected
Type 6 #13	1	1	100	Detected
Type 6 #14	1	1	100	Detected
Type 6 #15	1	0	0	Not Detected
Type 6 #16	1	1	100	Detected
Type 6 #17	1	1	100	Detected
Type 6 #18	1	1	100	Detected
Type 6 #19	1	1	100	Detected
Type 6 #20	1	1	100	Detected
Type 6 #21	1	1	100	Detected
Type 6 #22	1	0	0	Not Detected
Type 6 #23	1	1	100	Detected
Type 6 #24	1	1	100	Detected
Type 6 #25	1	0	0	Not Detected
Type 6 #26	1	1	100	Detected
Type 6 #27	1	1	100	Detected
Type 6 #28	1	1	100	Detected
Type 6 #29	1	1	100	Detected
Type 6 #30	1	1	100	Detected
Aggregate:	**30**	**26**	**86.67**	**Pass**

Equipment Configuration for Radar Type 1

Variant:	802.11ac-80	**Duty Cycle (%):**	18.00
Data Rate:	MCS0	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y):**	Not Applicable
Channel Frequency:	5530.00 MHz	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Frequency (MHz)	Pulse Width (us)	PRI (us)	# Pulses	Injections	Detections	Detection Rate	Result
5507	1	778	68	1	1	100.00	Detected
5501	1	578	92	1	1	100.00	Detected
5549	1	938	57	1	0	0.00	Not Detected
5508	1	3066	18	1	1	100.00	Detected
5509	1	698	76	1	1	100.00	Detected
5534	1	678	78	1	1	100.00	Detected
5505	1	638	83	1	1	100.00	Detected
5501	1	758	70	1	1	100.00	Detected
5497	1	878	61	1	1	100.00	Detected
5536	1	658	81	1	1	100.00	Detected
5561	1	918	58	1	1	100.00	Detected
5542	1	798	67	1	1	100.00	Detected
5548	1	718	74	1	1	100.00	Detected
5498	1	858	62	1	1	100.00	Detected
5549	1	898	59	1	1	100.00	Detected
5566	1	618	86	1	1	100.00	Detected
5516	1	2414	22	1	1	100.00	Detected
5495	1	2592	21	1	1	100.00	Detected
5519	1	1948	28	1	1	100.00	Detected
5521	1	1160	46	1	1	100.00	Detected
5493	1	1559	34	1	1	100.00	Detected
5524	1	3040	18	1	1	100.00	Detected
5558	1	1733	31	1	1	100.00	Detected
5505	1	1962	27	1	1	100.00	Detected
5496	1	1695	32	1	1	100.00	Detected
5495	1	2117	25	1	1	100.00	Detected
5506	1	1419	38	1	1	100.00	Detected
5541	1	1190	45	1	1	100.00	Detected
5563	1	1934	28	1	1	100.00	Detected
5523	1	1302	41	1	1	100.00	Detected
			Aggregate:	**30**	**29**	**96.67**	**Pass**

Equipment Configuration for Radar Type 2

Variant:	802.11ac-80	**Duty Cycle (%):**	18.00
Data Rate:	MCS0	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y):**	Not Applicable
Channel Frequency:	5530.00 MHz	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Frequency (MHz)	Pulse Width (us)	PRI (us)	# Pulses	Injections	Detections	Detection Rate	Result
5557	2.4	166	25	1	1	100.00	Detected
5528	1.4	155	25	1	1	100.00	Detected
5512	2.2	162	26	1	1	100.00	Detected
5526	2.3	179	26	1	1	100.00	Detected
5532	3.7	207	24	1	1	100.00	Detected
5511	3.1	215	25	1	1	100.00	Detected
5558	2.4	169	29	1	1	100.00	Detected
5499	4.1	221	28	1	1	100.00	Detected
5504	1.3	182	27	1	1	100.00	Detected
5507	1.4	191	28	1	1	100.00	Detected
5523	4	173	28	1	1	100.00	Detected
5516	3.2	165	29	1	1	100.00	Detected
5568	1.6	209	24	1	1	100.00	Detected
5557	1.6	154	25	1	1	100.00	Detected
5533	4.7	185	23	1	1	100.00	Detected
5558	1.4	176	26	1	1	100.00	Detected
5524	2.4	178	25	1	1	100.00	Detected
5563	3.8	173	25	1	1	100.00	Detected
5503	4.8	218	26	1	1	100.00	Detected
5509	1.2	228	25	1	1	100.00	Detected
5504	2.5	228	29	1	1	100.00	Detected
5494	3.5	226	23	1	1	100.00	Detected
5494	1.3	160	24	1	1	100.00	Detected
5543	2.5	221	25	1	1	100.00	Detected
5525	4.2	177	29	1	1	100.00	Detected
5506	4.3	225	25	1	1	100.00	Detected
5558	2.3	159	29	1	1	100.00	Detected
5515	3.2	158	26	1	1	100.00	Detected
5564	1.5	229	26	1	1	100.00	Detected
5502	2.5	187	28	1	1	100.00	Detected
			Aggregate:	**30**	**30**	**100.00**	**Pass**

Equipment Configuration for Radar Type 3

Variant:	802.11ac-80	**Duty Cycle (%):**	18.00
Data Rate:	MCS0	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y):**	Not Applicable
Channel Frequency:	5530.00 MHz	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Frequency (MHz)	Pulse Width (us)	PRI (us)	# Pulses	Injections	Detections	Detection Rate	Result
5523	7.3	300	18	1	1	100.00	Detected
5535	6	424	18	1	1	100.00	Detected
5496	8.1	220	17	1	1	100.00	Detected
5546	6.1	240	16	1	1	100.00	Detected
5526	8.7	225	18	1	1	100.00	Detected
5530	6.2	414	17	1	1	100.00	Detected
5567	8.5	302	17	1	1	100.00	Detected
5523	7.6	253	16	1	1	100.00	Detected
5518	8.1	366	18	1	1	100.00	Detected
5529	6.4	421	18	1	1	100.00	Detected
5536	7.4	453	18	1	1	100.00	Detected
5529	8.7	436	18	1	1	100.00	Detected
5567	8.6	214	17	1	0	0.00	Not Detected
5514	9	294	17	1	1	100.00	Detected
5540	9.4	462	18	1	1	100.00	Detected
5543	6.8	307	17	1	1	100.00	Detected
5519	6.1	226	16	1	1	100.00	Detected
5527	7.1	453	17	1	1	100.00	Detected
5563	6.9	239	16	1	1	100.00	Detected
5507	9.8	499	16	1	1	100.00	Detected
5556	7.7	371	18	1	1	100.00	Detected
5518	8.9	429	17	1	1	100.00	Detected
5508	6.7	268	17	1	1	100.00	Detected
5508	9.2	258	17	1	1	100.00	Detected
5568	6.7	321	17	1	1	100.00	Detected
5537	8.4	339	18	1	1	100.00	Detected
5553	8.8	359	16	1	1	100.00	Detected
5539	6.7	250	18	1	1	100.00	Detected
5558	8.3	228	16	1	1	100.00	Detected
5540	8.4	295	17	1	1	100.00	Detected
			Aggregate:	**30**	**29**	**96.67**	**Pass**

Equipment Configuration for Radar Type 4

Variant:	802.11ac-80	**Duty Cycle (%):**	18.00
Data Rate:	MCS0	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y):**	Not Applicable
Channel Frequency:	5530.00 MHz	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Frequency (MHz)	Pulse Width (us)	PRI (us)	# Pulses	Injections	Detections	Detection Rate	Result
5511	15.5	494	13	1	1	100.00	Detected
5496	12.9	241	12	1	1	100.00	Detected
5494	17.7	246	12	1	1	100.00	Detected
5533	15.7	414	13	1	0	0.00	Not Detected
5565	18.9	490	15	1	1	100.00	Detected
5506	17.3	491	12	1	1	100.00	Detected
5493	16	430	15	1	1	100.00	Detected
5546	19.5	428	13	1	1	100.00	Detected
5558	17.8	264	12	1	0	0.00	Not Detected
5539	12.7	393	14	1	1	100.00	Detected
5534	14.6	209	16	1	1	100.00	Detected
5493	12.3	239	13	1	1	100.00	Detected
5558	18.7	290	15	1	0	0.00	Not Detected
5540	17	338	14	1	1	100.00	Detected
5532	19.4	279	14	1	0	0.00	Not Detected
5526	15.4	328	12	1	1	100.00	Detected
5568	17.8	248	15	1	1	100.00	Detected
5516	16.6	386	15	1	1	100.00	Detected
5509	14.4	229	15	1	1	100.00	Detected
5543	11.9	208	16	1	1	100.00	Detected
5524	14.9	437	16	1	1	100.00	Detected
5541	11.1	431	12	1	1	100.00	Detected
5515	16.9	368	15	1	1	100.00	Detected
5563	12.3	242	12	1	1	100.00	Detected
5566	19.5	464	13	1	0	0.00	Not Detected
5567	14.1	207	13	1	0	0.00	Not Detected
5509	15.8	356	13	1	1	100.00	Detected
5535	17.1	466	14	1	1	100.00	Detected
5562	14.5	225	12	1	1	100.00	Detected
5546	16.2	331	16	1	1	100.00	Detected
			Aggregate:	**30**	**24**	**80.00**	**Pass**

Equipment Configuration for Radar Type 5

Variant:	802.11ac-80	**Duty Cycle (%):**	18.00
Data Rate:	MCS0	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y):**	Not Applicable
Channel Frequency:	5530.00 MHz	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Burst Segment	Injections	Detections	Detection Rate	Result
Type 5 #1 5530	1	0	0.00	Not Detected
Type 5 #2 5561	1	1	100.00	Detected
Type 5 #3 5498	1	1	100.00	Detected
Type 5 #4 5495	1	1	100.00	Detected
Type 5 #5 5496	1	1	100.00	Detected
Type 5 #6 5560	1	1	100.00	Detected
Type 5 #7 5530	1	1	100.00	Detected
Type 5 #8 5530	1	0	0.00	Not Detected
Type 5 #9 5530	1	0	0.00	Not Detected
Type 5 #10 5530	1	1	100.00	Detected
Type 5 #11 5498	1	1	100.00	Detected
Type 5 #12 5530	1	0	0.00	Not Detected
Type 5 #13 5564	1	1	100.00	Detected
Type 5 #14 5497	1	1	100.00	Detected
Type 5 #15 5562	1	1	100.00	Detected
Type 5 #16 5499	1	1	100.00	Detected
Type 5 #17 5564	1	1	100.00	Detected
Type 5 #18 5530	1	1	100.00	Detected
Type 5 #19 5530	1	1	100.00	Detected
Type 5 #20 5530	1	1	100.00	Detected
Type 5 #21 5563	1	1	100.00	Detected
Type 5 #22 5530	1	0	0.00	Not Detected
Type 5 #23 5563	1	1	100.00	Detected
Type 5 #24 5494	1	1	100.00	Detected
Type 5 #25 5566	1	1	100.00	Detected
Type 5 #26 5562	1	1	100.00	Detected
Type 5 #27 5498	1	1	100.00	Detected
Type 5 #28 5562	1	1	100.00	Detected
Type 5 #29 5495	1	1	100.00	Detected
Type 5 #30 5500	1	1	100.00	Detected
Aggregate:	**31**	**26**	**83.87**	**Pass**

Equipment Configuration for Radar Type 6

Variant:	802.11ac-80	**Duty Cycle (%):**	18.00
Data Rate:	MCS0	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y):**	Not Applicable
Channel Frequency:	5530.00 MHz	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Burst Segment	Detections	Injection #	Detection Rate	Result
Type 6 #1	1	1	100	Detected
Type 6 #2	1	1	100	Detected
Type 6 #3	1	1	100	Detected
Type 6 #4	1	1	100	Detected
Type 6 #5	1	1	100	Detected
Type 6 #6	1	1	100	Detected
Type 6 #7	1	1	100	Detected
Type 6 #8	1	1	100	Detected
Type 6 #9	1	1	100	Detected
Type 6 #10	1	1	100	Detected
Type 6 #11	1	1	100	Detected
Type 6 #12	1	1	100	Detected
Type 6 #13	1	1	100	Detected
Type 6 #14	1	1	100	Detected
Type 6 #15	1	1	100	Detected
Type 6 #16	1	1	100	Detected
Type 6 #17	1	1	100	Detected
Type 6 #18	1	1	100	Detected
Type 6 #19	1	1	100	Detected
Type 6 #20	1	1	100	Detected
Type 6 #21	1	1	100	Detected
Type 6 #22	1	1	100	Detected
Type 6 #23	1	1	100	Detected
Type 6 #24	1	1	100	Detected
Type 6 #25	1	1	100	Detected
Type 6 #26	1	1	100	Detected
Type 6 #27	1	1	100	Detected
Type 6 #28	1	1	100	Detected
Type 6 #29	1	1	100	Detected
Type 6 #30	1	1	100	Detected
Aggregate:	**30**	**30**	**100.00**	**Pass**

Equipment Configuration for Radar Type 1

Variant:	802.11n HT-40	**Duty Cycle (%):**	18.00
Data Rate:	MCS0	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y):**	Not Applicable
Channel Frequency:	5510.00 MHz	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Frequency (MHz)	Pulse Width (us)	PRI (us)	# Pulses	Injections	Detections	Detection Rate	Result
5514	1	558	95	1	1	100.00	Detected
5514	1	918	58	1	1	100.00	Detected
5522	1	698	76	1	1	100.00	Detected
5504	1	838	63	1	1	100.00	Detected
5520	1	578	92	1	1	100.00	Detected
5521	1	718	74	1	1	100.00	Detected
5506	1	638	83	1	1	100.00	Detected
5511	1	818	65	1	1	100.00	Detected
5521	1	938	57	1	1	100.00	Detected
5523	1	798	67	1	1	100.00	Detected
5497	1	658	81	1	1	100.00	Detected
5520	1	758	70	1	1	100.00	Detected
5524	1	858	62	1	1	100.00	Detected
5522	1	3066	18	1	1	100.00	Detected
5504	1	878	61	1	1	100.00	Detected
5502	1	738	72	1	1	100.00	Detected
5515	1	2694	20	1	1	100.00	Detected
5528	1	1536	35	1	1	100.00	Detected
5494	1	1080	49	1	1	100.00	Detected
5496	1	2485	22	1	1	100.00	Detected
5520	1	1206	44	1	1	100.00	Detected
5497	1	1243	43	1	1	100.00	Detected
5497	1	889	60	1	1	100.00	Detected
5522	1	670	79	1	1	100.00	Detected
5528	1	2034	26	1	1	100.00	Detected
5493	1	2061	26	1	1	100.00	Detected
5509	1	1670	32	1	0	0.00	Not Detected
5499	1	1325	40	1	1	100.00	Detected
5502	1	861	62	1	1	100.00	Detected
5492	1	866	61	1	1	100.00	Detected
			Aggregate:	**30**	**29**	**96.67**	**Pass**

Equipment Configuration for Radar Type 2

Variant:	802.11n HT-40	**Duty Cycle (%):**	18.00
Data Rate:	MCS0	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y):**	Not Applicable
Channel Frequency:	5510.00 MHz	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Frequency (MHz)	Pulse Width (us)	PRI (us)	# Pulses	Injections	Detections	Detection Rate	Result
5513	2.4	180	29	1	1	100.00	Detected
5521	1.4	212	26	1	1	100.00	Detected
5501	1.5	197	27	1	1	100.00	Detected
5519	1.3	219	29	1	1	100.00	Detected
5497	3	176	28	1	1	100.00	Detected
5524	4	230	28	1	1	100.00	Detected
5522	3.7	167	24	1	1	100.00	Detected
5515	3.6	159	29	1	1	100.00	Detected
5499	5	165	25	1	1	100.00	Detected
5524	2	189	23	1	1	100.00	Detected
5505	2.1	215	29	1	0	0.00	Not Detected
5492	2.8	218	25	1	1	100.00	Detected
5513	2.3	163	28	1	1	100.00	Detected
5521	2.1	171	28	1	1	100.00	Detected
5505	3.6	154	23	1	0	0.00	Not Detected
5524	3.4	223	27	1	1	100.00	Detected
5492	3.6	179	28	1	1	100.00	Detected
5524	2.8	230	29	1	0	0.00	Not Detected
5492	2.1	179	27	1	1	100.00	Detected
5527	1.5	208	25	1	1	100.00	Detected
5522	4.2	197	25	1	1	100.00	Detected
5510	2.3	160	29	1	1	100.00	Detected
5518	2.5	154	24	1	1	100.00	Detected
5499	2.4	162	28	1	1	100.00	Detected
5505	1.8	218	25	1	1	100.00	Detected
5495	1.4	192	24	1	1	100.00	Detected
5504	2.1	213	26	1	1	100.00	Detected
5525	3.7	220	24	1	1	100.00	Detected
5526	3.7	176	23	1	1	100.00	Detected
5492	3.3	158	27	1	1	100.00	Detected
			Aggregate:	**30**	**27**	**90.00**	**Pass**

Equipment Configuration for Radar Type 3

Variant:	802.11n HT-40	**Duty Cycle (%):**	18.00
Data Rate:	MCS0	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y):**	Not Applicable
Channel Frequency:	5510.00 MHz	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Frequency (MHz)	Pulse Width (us)	PRI (us)	# Pulses	Injections	Detections	Detection Rate	Result
5511	7.7	208	17	1	1	100.00	Detected
5506	9	407	17	1	1	100.00	Detected
5496	8.3	264	18	1	1	100.00	Detected
5502	7.5	284	18	1	1	100.00	Detected
5502	7.8	500	16	1	1	100.00	Detected
5511	8.4	214	16	1	0	0.00	Not Detected
5510	9.3	292	17	1	0	0.00	Not Detected
5492	6.3	433	18	1	1	100.00	Detected
5496	6.6	448	18	1	1	100.00	Detected
5494	6.1	425	17	1	1	100.00	Detected
5513	6.5	319	16	1	1	100.00	Detected
5509	6.5	484	17	1	1	100.00	Detected
5506	8.4	440	17	1	1	100.00	Detected
5513	9.6	245	18	1	1	100.00	Detected
5505	9.9	203	17	1	1	100.00	Detected
5508	6.7	393	16	1	1	100.00	Detected
5521	7.7	390	16	1	1	100.00	Detected
5512	8.4	400	16	1	1	100.00	Detected
5517	7.7	385	17	1	1	100.00	Detected
5499	8.9	378	17	1	1	100.00	Detected
5524	9	235	17	1	1	100.00	Detected
5502	6.8	264	16	1	1	100.00	Detected
5492	9.6	290	16	1	1	100.00	Detected
5492	6.7	234	17	1	1	100.00	Detected
5509	7.4	354	16	1	1	100.00	Detected
5510	9.3	205	18	1	1	100.00	Detected
5526	8.1	463	16	1	1	100.00	Detected
5502	8.9	415	17	1	1	100.00	Detected
5506	8.5	405	18	1	1	100.00	Detected
5493	6.9	432	17	1	1	100.00	Detected
			Aggregate:	**30**	**28**	**93.33**	**Pass**

Equipment Configuration for Radar Type 4

Variant:	802.11n HT-40	**Duty Cycle (%):**	18.00
Data Rate:	MCS0	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y):**	Not Applicable
Channel Frequency:	5510.00 MHz	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Frequency (MHz)	Pulse Width (us)	PRI (us)	# Pulses	Injections	Detections	Detection Rate	Result
5499	14.8	233	15	1	1	100.00	Detected
5503	16.2	280	14	1	0	0.00	Not Detected
5503	12.8	483	16	1	1	100.00	Detected
5499	16	465	12	1	1	100.00	Detected
5518	14	349	15	1	1	100.00	Detected
5504	11.6	483	13	1	1	100.00	Detected
5498	16.9	410	13	1	1	100.00	Detected
5510	14.7	312	13	1	1	100.00	Detected
5513	19.3	452	12	1	1	100.00	Detected
5518	14.4	345	13	1	1	100.00	Detected
5501	14.3	450	12	1	1	100.00	Detected
5521	18.7	328	16	1	1	100.00	Detected
5519	16.7	494	15	1	1	100.00	Detected
5518	11.2	277	12	1	1	100.00	Detected
5509	18.5	337	15	1	1	100.00	Detected
5524	19.1	202	16	1	1	100.00	Detected
5522	17.1	283	13	1	0	0.00	Not Detected
5518	18.3	301	13	1	1	100.00	Detected
5523	12.3	347	16	1	1	100.00	Detected
5500	18.7	346	13	1	0	0.00	Not Detected
5500	18.8	383	16	1	1	100.00	Detected
5507	16.9	364	14	1	1	100.00	Detected
5516	17.3	380	16	1	1	100.00	Detected
5526	18.5	340	13	1	1	100.00	Detected
5505	19.3	277	12	1	1	100.00	Detected
5513	12.2	236	16	1	0	0.00	Not Detected
5502	16.7	463	14	1	1	100.00	Detected
5511	13.6	473	15	1	1	100.00	Detected
5504	12.2	326	12	1	1	100.00	Detected
5502	12.2	345	12	1	1	100.00	Detected
			Aggregate:	**30**	**26**	**86.67**	**Pass**

Equipment Configuration for Radar Type 5

Variant:	802.11n HT-40	**Duty Cycle (%):**	18.00
Data Rate:	MCS0	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y):**	Not Applicable
Channel Frequency:	5510.00 MHz	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Burst Segment	Injections	Detections	Detection Rate	Result
Type 5 #1 5495	1	1	100.00	Detected
Type 5 #2 5495	1	1	100.00	Detected
Type 5 #3 5510	1	1	100.00	Detected
Type 5 #4 5522	1	1	100.00	Detected
Type 5 #5 5500	1	1	100.00	Detected
Type 5 #6 5510	1	1	100.00	Detected
Type 5 #7 5510	1	1	100.00	Detected
Type 5 #8 5524	1	1	100.00	Detected
Type 5 #9 5500	1	1	100.00	Detected
Type 5 #10 5510	1	1	100.00	Detected
Type 5 #11 5510	1	1	100.00	Detected
Type 5 #12 5496	1	1	100.00	Detected
Type 5 #13 5526	1	1	100.00	Detected
Type 5 #14 5497	1	1	100.00	Detected
Type 5 #15 5510	1	1	100.00	Detected
Type 5 #16 5499	1	1	100.00	Detected
Type 5 #17 5510	1	1	100.00	Detected
Type 5 #18 5520	1	1	100.00	Detected
Type 5 #19 5521	1	1	100.00	Detected
Type 5 #20 5521	1	1	100.00	Detected
Type 5 #21 5498	1	1	100.00	Detected
Type 5 #22 5523	1	1	100.00	Detected
Type 5 #23 5524	1	1	100.00	Detected
Type 5 #24 5498	1	1	100.00	Detected
Type 5 #25 5522	1	1	100.00	Detected
Type 5 #26 5510	1	1	100.00	Detected
Type 5 #27 5500	1	1	100.00	Detected
Type 5 #28 5510	1	1	100.00	Detected
Type 5 #29 5524	1	1	100.00	Detected
Type 5 #30 5510	1	1	100.00	Detected
Aggregate:	**30**	**30**	**100.00**	**Pass**

Equipment Configuration for Radar Type 6

Variant:	802.11n HT-40	**Duty Cycle (%):**	18.00
Data Rate:	MCS0	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y):**	Not Applicable
Channel Frequency:	5510.00 MHz	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Burst Segment	Detections	Injection #	Detection Rate	Result
Type 6 #1	1	1	100	Detected
Type 6 #2	1	1	100	Detected
Type 6 #3	1	1	100	Detected
Type 6 #4	1	1	100	Detected
Type 6 #5	1	1	100	Detected
Type 6 #6	1	1	100	Detected
Type 6 #7	1	1	100	Detected
Type 6 #8	1	1	100	Detected
Type 6 #9	1	0	0	Not Detected
Type 6 #10	1	1	100	Detected
Type 6 #11	1	1	100	Detected
Type 6 #12	1	1	100	Detected
Type 6 #13	1	1	100	Detected
Type 6 #14	1	1	100	Detected
Type 6 #15	1	1	100	Detected
Type 6 #16	1	1	100	Detected
Type 6 #17	1	1	100	Detected
Type 6 #18	1	1	100	Detected
Type 6 #19	1	1	100	Detected
Type 6 #20	1	1	100	Detected
Type 6 #21	1	1	100	Detected
Type 6 #22	1	1	100	Detected
Type 6 #23	1	1	100	Detected
Type 6 #24	1	1	100	Detected
Type 6 #25	1	1	100	Detected
Type 6 #26	1	1	100	Detected
Type 6 #27	1	1	100	Detected
Type 6 #28	1	1	100	Detected
Type 6 #29	1	1	100	Detected
Type 6 #30	1	1	100	Detected
Aggregate:	**30**	**29**	**96.67**	**Pass**

9.4.10. Detection Bandwidth

To determine the equipment Detection Bandwidth for each applicable operational mode a single burst of the short pulse radar Type 0 was produced at the appropriate power level. The EUT was set up as a standalone device (no associated Client or Master, as appropriate) and no traffic. Frame based systems will be set to a talk/listen ratio reflecting the worst case (maximum) that is user configurable during this test.

To determine the actual receiver bandwidth a single radar burst is generated for a minimum of 10 trials and the response of the EUT noted. The EUT must detect at least 9 trials in order to meet the criteria.

Starting from the actual channel center frequency the radar frequency is increased in 5 MHz steps, injecting a Type 0 ten times, until the detection rate falls below 90%. At this time the span between this decrease in detection rate and the last 5 MHz step is checked with a 1 MHz step size. The highest frequency at which detection is greater than or equal to 90% is denoted as FH.

The radar frequency is decreased in 5 MHz steps, repeating the above test sequence, until the detection rate falls below 90%. The lowest frequency at which detection is greater than or equal to 90% is denoted as FL.

The U-NII Detection Bandwidth is calculated as follows:
U-NII Detection Bandwidth = FH - FL

The U-NII Detection Bandwidth must meet the U-NII Detection Bandwidth criterion specified. Otherwise, the UUT does not comply with DFS requirements. This is essential to ensure that the UUT is capable of detecting Radar Waveforms across the same frequency spectrum that contains the significant energy from the system. In the case that the U-NII Detection Bandwidth is greater than or equal to the 99% power bandwidth for the measured FH and FL, the test can be truncated and the U-NII Detection Bandwidth can be reported as the measured FH and FL.

Equipment Configuration for Detection Bandwidth			
Variant:	802.11a	**Duty Cycle (%):**	0.10
Data Rate:	6 Mbit/s	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y):**	Not Applicable
Channel Frequency:	5500.00 MHz	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Frequency	Injections	Detections	Result
5515 MHz	2	0	Not Detected
5511 MHz	2	0	Not Detected
5510 MHz	10	10	Detected
5505 MHz	10	10	Detected
5500 MHz	10	10	Detected
5495 MHz	10	10	Detected
5490 MHz	10	10	Detected
5489 MHz	2	0	Not Detected
5485 MHz	2	0	Not Detected
F_L = 5490 MHz	**F_H = 5510 MHz**	**$F_H - F_L$ = 20 MHz**	**Pass**

Equipment Configuration for Detection Bandwidth

Variant:	802.11ac-80	**Duty Cycle (%):**	0.10
Data Rate:	MCS0	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y):**	Not Applicable
Channel Frequency:	5530.00 MHz	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Frequency	Injections	Detections	Result
5575 MHz	2	0	Not Detected
5571 MHz	2	0	Not Detected
5570 MHz	10	10	Detected
5565 MHz	10	10	Detected
5560 MHz	10	10	Detected
5555 MHz	10	10	Detected
5550 MHz	10	10	Detected
5545 MHz	10	10	Detected
5540 MHz	10	10	Detected
5535 MHz	10	10	Detected
5530 MHz	10	10	Detected
5525 MHz	10	10	Detected
5520 MHz	10	10	Detected
5515 MHz	10	10	Detected
5510 MHz	10	10	Detected
5505 MHz	10	10	Detected
5500 MHz	10	10	Detected
5495 MHz	10	10	Detected
5490 MHz	10	10	Detected
5489 MHz	2	0	Not Detected
5485 MHz	2	0	Not Detected
F_L = 5490 MHz	**F_H = 5570 MHz**	**$F_H - F_L$ = 80 MHz**	**Pass**

Equipment Configuration for Detection Bandwidth

Variant:	802.11n HT-40	**Duty Cycle (%):**	0.10
Data Rate:	MCS0	**Antenna Gain (dBi):**	8.00
Modulation:	OFDM	**Beam Forming Gain (Y):**	Not Applicable
Channel Frequency:	5510.00 MHz	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Frequency	Injections	Detections	Result
5535 MHz	2	0	Not Detected
5531 MHz	2	0	Not Detected
5530 MHz	10	10	Detected
5525 MHz	10	10	Detected
5520 MHz	10	10	Detected
5515 MHz	10	10	Detected
5510 MHz	10	10	Detected
5505 MHz	10	10	Detected
5500 MHz	10	10	Detected
5495 MHz	10	10	Detected
5490 MHz	10	10	Detected
5489 MHz	2	0	Not Detected
5485 MHz	2	0	Not Detected
F_L = 5490 MHz	**F_H = 5530 MHz**	**$F_H - F_L$ = 40 MHz**	**Pass**

9.5. Radiated

Radiated Test Conditions for Radiated Spurious and Band-Edge Emissions			
Standard:	FCC CFR 47:15.407 ISED RSS-Gen	**Ambient Temp. (ºC):**	20.0 - 24.5
Test Heading:	Radiated Spurious and Band-Edge Emissions	**Rel. Humidity (%):**	32 - 45
Standard Section(s):	15.407 (b), 15.205, 15.209 RSS-Gen Sect 8.9, 8.10	**Pressure (mBars):**	999 - 1001
Reference Document(s):	See Normative References		

Test Procedure for Radiated Spurious and Band-Edge Emissions
Radiated emissions for restricted bands above 1 GHz are measured in the anechoic chamber at a 3-meter distance on every azimuth in both horizontal and vertical polarities. The emissions are recorded and maximized as a function of azimuth by rotation through 360° with a spectrum analyzer in peak hold mode. Depending on the frequency band spanned a notch filter was used to remove the fundamental frequency. The highest emissions relative to the limit are listed for each frequency spanned.
Measurements on any restricted band frequency or frequencies above 1 GHz are based on the use of measurement instrumentation employing peak and average detectors. All measurements were performed using a resolution bandwidth of 1 MHz.

Test configuration and setup for Undesirable Measurement were per the Radiated Test Set-up specified in this document.

15.407 (b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of −17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of −27 dBm/MHz.

(5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.

(6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.

(7) The provisions of §15.205 apply to intentional radiators operating under this section.

(8) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.

Limits for Restricted Bands (15.205, 15.209)
Peak emission: 74 dBuV/m
Average emission: 54 dBuV/m

Field Strength Calculation
The field strength is calculated by adding the Antenna Factor and Cable Loss, and subtracting Amplifier Gain from the measured reading. All factors are included in the reported data.
FS = R + AF + CORR - FO

where:
FS = Field Strength
R = Measured Spectrum analyzer Input Amplitude

AF = Antenna Factor
CORR = Correction Factor = CL – AG + NFL
CL = Cable Loss
AG = Amplifier Gain
FO = Distance Falloff Factor
NFL = Notch Filter Loss

Example:
The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength (dBµV/m);

$$E = \frac{1000000 \times \sqrt{30P}}{3}\ \mu V/m$$

where P is the EIRP in Watts

Therefore: -27 dBm/MHz equates to 68.23 dBuV/m

Conversion between dBmV/m (or dBmV) and mV/m (or mV) are as follows:
Level (dBmV/m) = 20 * Log (level (mV/m))

40 dBmV/m = 100 mV/m
48 dBmV/m = 250 mV/m

Restricted Bands of Operation (15.205)
(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

Frequency Band			
MHz	**MHz**	**MHz**	**GHz**
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			

(b) Except as provided in paragraphs (d) and (e) of this section, the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in §15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in §15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in §15.35 apply to these measurements.

(c) Except as provided in paragraphs (d) and (e) of this section, regardless of the field strength limits specified elsewhere in this subpart, the provisions of this section apply to emissions from any intentional radiator.

(d) The following devices are exempt from the requirements of this section:

(1) Swept frequency field disturbance sensors operating between 1.705 and 37 MHz provided their emissions only sweep through the bands listed in paragraph (a) of this section, the sweep is never stopped with the fundamental emission within the bands listed in paragraph (a) of this section, and the fundamental emission is outside of the bands listed in paragraph (a) of this section more than 99% of the time the device is actively transmitting, without compensation for duty cycle.

(2) Transmitters used to detect buried electronic markers at 101.4 kHz which are employed by telephone companies.

(3) Cable locating equipment operated pursuant to §15.213.

(4) Any equipment operated under the provisions of §15.253, 15.255, and 15.256 in the frequency band 75-85 GHz, or §15.257 of this part.

(5) Biomedical telemetry devices operating under the provisions of §15.242 of this part are not subject to the restricted band 608-614 MHz but are subject to compliance within the other restricted bands.

(6) Transmitters operating under the provisions of subparts D or F of this part.

(7) Devices operated pursuant to §15.225 are exempt from complying with this section for the 13.36-13.41 MHz band only.

(8) Devices operated in the 24.075-24.175 GHz band under §15.245 are exempt from complying with the requirements of this section for the 48.15-48.35 GHz and 72.225-72.525 GHz bands only, and shall not exceed the limits specified in §15.245(b).

(9) Devices operated in the 24.0-24.25 GHz band under §15.249 are exempt from complying with the requirements of this section for the 48.0-48.5 GHz and 72.0-72.75 GHz bands only, and shall not exceed the limits specified in §15.249(a).

(e) Harmonic emissions appearing in the restricted bands above 17.7 GHz from field disturbance sensors operating under the provisions of §15.245 shall not exceed the limits specified in §15.245(b).

9.5.1. TX Spurious & Restricted Band Emissions

9.5.1.7. Tesswave communications TOF-2458-6V

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	Tesswave communications TOF-2458-6V	**Variant:**	802.11a
Antenna Gain (dBi):	8.00	**Modulation:**	OFDM
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99
Channel Frequency (MHz):	5260.00	**Data Rate:**	6.00 MBit/s
Power Setting:	23	**Tested By:**	JMH

Test Measurement Results

1000.00 - 18000.00 MHz												
Num	**Frequency MHz**	**Raw dBµV**	**Cable Loss dB**	**AF dB/m**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
#1	5261.33	79.11	2.92	-12.22	69.81	Fundamental	Vertical	100	0	--	--	
Test Notes: Eut powered by PoE injector.												

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	Tesswave communications TOF-2458-6V	**Variant:**	802.11a
Antenna Gain (dBi):	8.00	**Modulation:**	OFDM
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99
Channel Frequency (MHz):	5300.00	**Data Rate:**	6.00 MBit/s
Power Setting:	23	**Tested By:**	JMH

Test Measurement Results

1000.00 - 18000.00 MHz

Num	Frequency MHz	Raw dBµV	Cable Loss dB	AF dB/m	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5294.62	75.85	3.02	-12.01	66.86	Fundamental	Vertical	100	0	--	--	

Test Notes: Eut powered by PoE injector.

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	Tesswave communications TOF-2458-6V	**Variant:**	802.11a
Antenna Gain (dBi):	8.00	**Modulation:**	OFDM
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99
Channel Frequency (MHz):	5320.00	**Data Rate:**	6.00 MBit/s
Power Setting:	23	**Tested By:**	JMH

Test Measurement Results

1000.00 - 18000.00 MHz

Num	Frequency MHz	Raw dBµV	Cable Loss dB	AF dB/m	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5314.47	72.13	3.00	-12.00	63.13	Fundamental	Vertical	100	0	--	--	

Test Notes: Eut powered by PoE injector.

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	Tesswave communications TOF-2458-6V	**Variant:**	802.11a
Antenna Gain (dBi):	8.00	**Modulation:**	OFDM
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99
Channel Frequency (MHz):	5500.00	**Data Rate:**	6.00 MBit/s
Power Setting:	23	**Tested By:**	JMH

Test Measurement Results

1000.00 - 18000.00 MHz

Num	Frequency MHz	Raw dBµV	Cable Loss dB	AF dB/m	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5504.65	68.85	3.06	-11.66	60.25	Fundamental	Vertical	150	0	--	--	
#2	10997.34	60.36	4.58	-4.64	60.30	Max Peak	Horizontal	198	71	68.2	-7.9	Pass
#3	10997.34	45.17	4.58	-4.64	45.11	Max Avg	Horizontal	198	71	54.0	-8.9	Pass

Test Notes: Eut powered by PoE injector.

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	Tesswave communications TOF-2458-6V	**Variant:**	802.11a
Antenna Gain (dBi):	8.00	**Modulation:**	OFDM
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99
Channel Frequency (MHz):	5580.00	**Data Rate:**	6.00 MBit/s
Power Setting:	23	**Tested By:**	JMH

Test Measurement Results

1000.00 - 18000.00 MHz

Num	Frequency MHz	Raw dBµV	Cable Loss dB	AF dB/m	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5575.54	69.39	3.23	-11.57	61.05	Fundamental	Vertical	150	0	--	--	
#2	11160.61	62.28	4.54	-5.00	61.82	Max Peak	Horizontal	144	156	68.2	-6.4	Pass
#3	11160.61	46.81	4.54	-5.00	46.35	Max Avg	Horizontal	144	156	54.0	-7.7	Pass

Test Notes: Eut powered by PoE injector. 5G Notch in front of amp to prevent overload.

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	Tesswave communications TOF-2458-6V	**Variant:**	802.11a
Antenna Gain (dBi):	8.00	**Modulation:**	OFDM
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99
Channel Frequency (MHz):	5720.00	**Data Rate:**	6.00 MBit/s
Power Setting:	23	**Tested By:**	JMH

Test Measurement Results

1000.00 - 18000.00 MHz

Num	Frequency MHz	Raw dBµV	Cable Loss dB	AF dB/m	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5714.85	63.60	3.16	-11.29	55.47	Fundamental	Vertical	150	179	--	--	
#2	11442.27	66.58	4.47	-5.61	65.44	Max Peak	Horizontal	162	142	68.2	-2.8	Pass
#3	11442.27	52.21	4.47	-5.61	51.07	Max Avg	Horizontal	162	142	54.0	-2.9	Pass

Test Notes: Eut powered by PoE injector. 5G Notch in front of amp to prevent overload.

9.5.2. Restricted Edge & Band-Edge Emissions

9.5.2.8. Tesswave communications TOF-2458-6V

RESULTS SUMMARY FOR RADIATED BAND-EDGE EMISSIONS

5470 - 5725 MHz

Tesswave communications TOF-2458-6V		Restricted-Edge Freq	Limit 74.0dBµV/m	Limit 54.0dBµV/m	Power Setting
Operational Mode	Operating Frequency (MHz)	MHz	dBµV/m	dBµV/m	
802.11a	5500.00	5460.00	67.38	52.89	22
802.11ac-80	5530.00	5460.00	67.40	50.63	7
802.11n HT-20	5500.00	5460.00	67.75	53.19	21
802.11n HT-40	5510.00	5460.00	67.79	53.42	17

Tesswave communications TOF-2458-6V		Band-Edge Freq	Limit 68.23dBµV/m	Power Setting
Operational Mode	Operating Frequency (MHz)	MHz	dBµV/m	
802.11a	5500.00	5470.00	0.00	22
802.11ac-80	5530.00	5470.00	0.00	7
802.11n HT-20	5500.00	5470.00	0.00	21
802.11n HT-40	5510.00	5470.00	0.00	17

5250 - 5350 MHz

Tesswave communications TOF-2458-6V		Band-Edge Freq	Limit 74.0dBµV/m	Limit 54.0dBµV/m	Power Setting
Operational Mode	Operating Frequency (MHz)	MHz	dBµV/m	dBµV/m	
802.11a	5320.00	5350.00	64.22	51.12	23
802.11ac-80	5290.00	5350.00	67.76	53.77	10
802.11n HT-20	5320.00	5350.00	64.59	51.42	22
802.11n HT-40	5310.00	5350.00	67.14	53.83	19

Click on the links to view the data.

Equipment Configuration for Restricted Lower Band-Edge Emissions

Antenna:	Tesswave communications TOF-2458-6V	**Variant:**	802.11a
Antenna Gain (dBi):	8.00	**Modulation:**	OFDM
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99
Channel Frequency (MHz):	5500.00	**Data Rate:**	6.00 MBit/s
Power Setting:	22	**Tested By:**	JMH

Test Measurement Results

5350.00 - 5500.00 MHz												
Num	**Frequency MHz**	**Raw dBµV**	**Cable Loss dB**	**AF dB/m**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
#1	5460.00	15.30	3.06	34.53	52.89	Max Avg	Vertical	197	356	54.0	-1.1	Pass
#3	5468.20	29.76	3.07	34.55	67.38	Max Peak	Vertical	197	356	68.2	-0.9	Pass
#2	5460.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--
#4	5470.00	--	--	--	--	Band-Edge	--	--	--	--	--	--
Test Notes: Eut powered by PoE injector.												

Equipment Configuration for Restricted Lower Band-Edge Emissions

Antenna:	Tesswave communications TOF-2458-6V	**Variant:**	802.11ac-80
Antenna Gain (dBi):	Not Applicable	**Modulation:**	OFDM
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	79
Channel Frequency (MHz):	5530.00	**Data Rate:**	29.30 MBit/s
Power Setting:	7	**Tested By:**	JMH

Test Measurement Results

5350.00 - 5540.00 MHz												
Num	**Frequency MHz**	**Raw dBµV**	**Cable Loss dB**	**AF dB/m**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
#1	5460.00	12.03	3.06	34.53	50.63	Max Avg	Vertical	197	356	54.0	-18.6	Pass
#3	5469.62	29.79	3.06	34.55	67.40	Max Peak	Vertical	197	356	68.2	-0.8	Pass
#2	5460.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--
#4	5470.00	--	--	--	--	Band-Edge	--	--	--	--	--	--
Test Notes: Eut powered by PoE injector. Avg measurement include DCCF of 1.01												

Equipment Configuration for Restricted Lower Band-Edge Emissions

Antenna:	Tesswave communications TOF-2458-6V	**Variant:**	802.11n HT-20
Antenna Gain (dBi):	Not Applicable	**Modulation:**	OFDM
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	93
Channel Frequency (MHz):	5500.00	**Data Rate:**	6.50 MBit/s
Power Setting:	21	**Tested By:**	JMH

Test Measurement Results

5350.00 - 5500.00 MHz												
Num	**Frequency MHz**	**Raw dBµV**	**Cable Loss dB**	**AF dB/m**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
#1	5460.00	15.60	3.06	34.53	53.19	Max Avg	Vertical	197	356	54.0	-0.8	Pass
#3	5469.02	30.14	3.06	34.55	67.75	Max Peak	Vertical	197	356	68.2	-0.5	Pass
#2	5460.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--
#4	5470.00	--	--	--	--	Band-Edge	--	--	--	--	--	--
Test Notes: Eut powered by PoE injector. Avg measurement include DCCF of 0.3												

Equipment Configuration for Restricted Lower Band-Edge Emissions

Antenna:	Tesswave communications TOF-2458-6V	**Variant:**	802.11n HT-40
Antenna Gain (dBi):	Not Applicable	**Modulation:**	OFDM
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	83
Channel Frequency (MHz):	5510.00	**Data Rate:**	13.50 MBit/s
Power Setting:	17	**Tested By:**	JMH

Test Measurement Results

5350.00 - 5520.00 MHz												
Num	**Frequency MHz**	**Raw dBµV**	**Cable Loss dB**	**AF dB/m**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
#1	5460.00	14.98	3.06	34.53	53.42	Max Avg	Vertical	197	356	54.0	-0.6	Pass
#3	5469.20	30.18	3.06	34.55	67.79	Max Peak	Vertical	197	356	68.2	-0.4	Pass
#2	5460.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--
#4	5470.00	--	--	--	--	Band-Edge	--	--	--	--	--	--
Test Notes: Eut powered by PoE injector. Avg measurement include DCCF of 0.85												

Equipment Configuration for Restricted Upper Band-Edge Emissions

Antenna:	Tesswave communications TOF-2458-6V	**Variant:**	802.11a
Antenna Gain (dBi):	8.00	**Modulation:**	OFDM
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99
Channel Frequency (MHz):	5320.00	**Data Rate:**	6.00 MBit/s
Power Setting:	23	**Tested By:**	JMH

Test Measurement Results

5300.00 - 5460.00 MHz												
Num	**Frequency MHz**	**Raw dBµV**	**Cable Loss dB**	**AF dB/m**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
#2	5359.00	13.61	3.04	34.47	51.12	Max Avg	Vertical	197	356	54.0	-2.9	Pass
#3	5364.77	26.67	3.07	34.48	64.22	Max Peak	Vertical	197	356	74.0	-9.8	Pass
#1	5350.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--
Test Notes: EUT powered by PoE injector.												

Equipment Configuration for Restricted Upper Band-Edge Emissions

Antenna:	Tesswave communications TOF-2458-6V	**Variant:**	802.11ac-80
Antenna Gain (dBi):	Not Applicable	**Modulation:**	OFDM
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	79
Channel Frequency (MHz):	5290.00	**Data Rate:**	29.30 MBit/s
Power Setting:	10	**Tested By:**	JMH

Test Measurement Results

5260.00 - 5460.00 MHz												
Num	**Frequency MHz**	**Raw dBµV**	**Cable Loss dB**	**AF dB/m**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
#1	5350.00	16.25	3.06	34.46	53.77	Max Avg	Vertical	197	356	54.0	-0.2	Pass
#2	5350.00	30.24	3.06	34.46	67.76	Max Peak	Vertical	197	356	74.0	-6.2	Pass
#3	5350.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--
Test Notes: EUT powered by PoE injector. Avg measurement includes DCCF of 1.01 dB												

Equipment Configuration for Restricted Upper Band-Edge Emissions

Antenna:	Tesswave communications TOF-2458-6V	**Variant:**	802.11n HT-20
Antenna Gain (dBi):	8.00	**Modulation:**	OFDM
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	93
Channel Frequency (MHz):	5320.00	**Data Rate:**	6.50 MBit/s
Power Setting:	22	**Tested By:**	JMH

Test Measurement Results

5300.00 - 5460.00 MHz												
Num	**Frequency MHz**	**Raw dBµV**	**Cable Loss dB**	**AF dB/m**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
#2	5354.51	27.07	3.05	34.47	64.59	Max Peak	Vertical	197	356	74.0	-9.4	Pass
#3	5358.68	13.91	3.04	34.47	51.42	Max Avg	Vertical	197	356	54.0	-2.6	Pass
#1	5350.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--
Test Notes: EUT powered by PoE injector. Avg Measurement includes DCCF of 0.3 dB												

Equipment Configuration for Restricted Upper Band-Edge Emissions

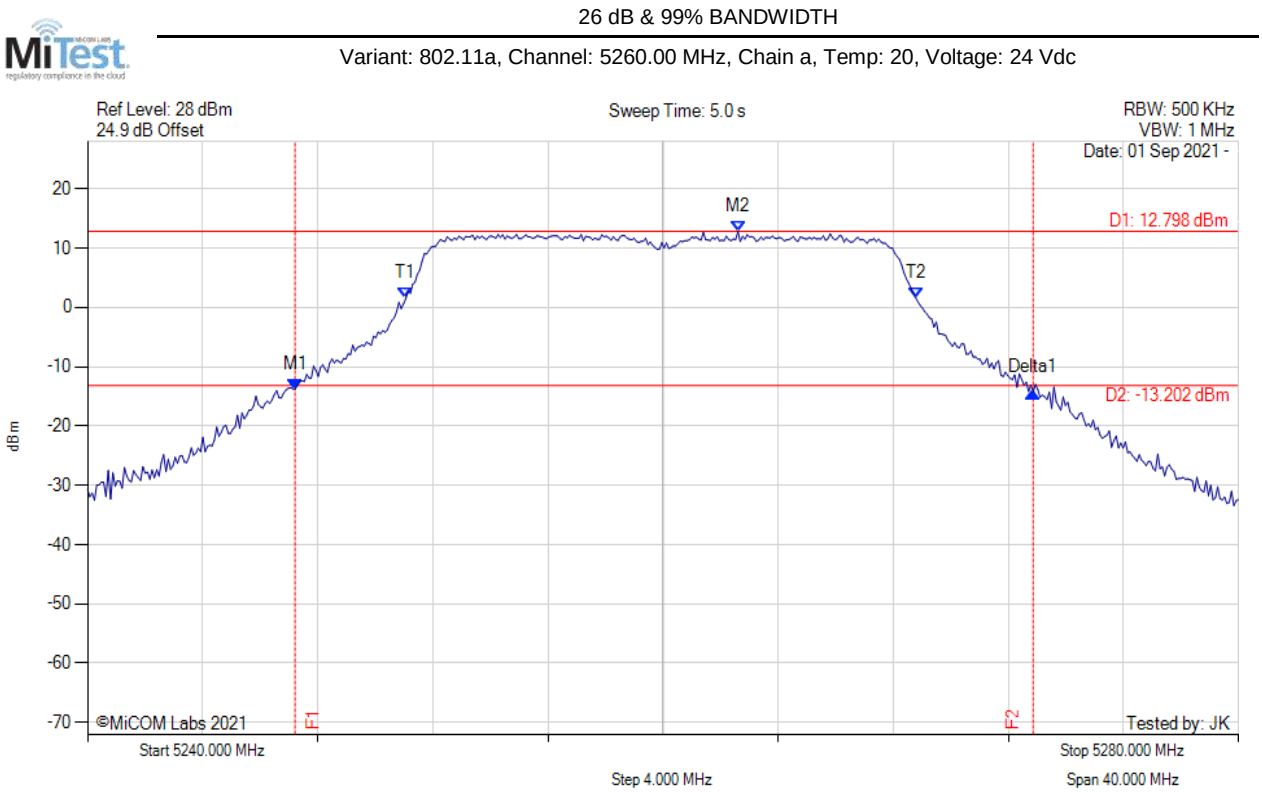
Antenna:	Tesswave communications TOF-2458-6V	**Variant:**	802.11n HT-40
Antenna Gain (dBi):	8.00	**Modulation:**	OFDM
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	83
Channel Frequency (MHz):	5310.00	**Data Rate:**	13.50 MBit/s
Power Setting:	19	**Tested By:**	JMH

Test Measurement Results

5300.00 - 5460.00 MHz												
Num	**Frequency MHz**	**Raw dBµV**	**Cable Loss dB**	**AF dB/m**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
#1	5350.00	15.46	3.06	34.46	53.83	Max Avg	Vertical	197	356	54.0	-0.2	Pass
#3	5351.28	29.62	3.06	34.46	67.14	Max Peak	Vertical	197	356	74.0	-8.9	Pass
#2	5350.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--
Test Notes: Eut powered by PoE injector. Avg measurement includes DCCF of 0.85												

A. APPENDIX - GRAPHICAL IMAGES

A.1. 26 dB & 99% Bandwidth

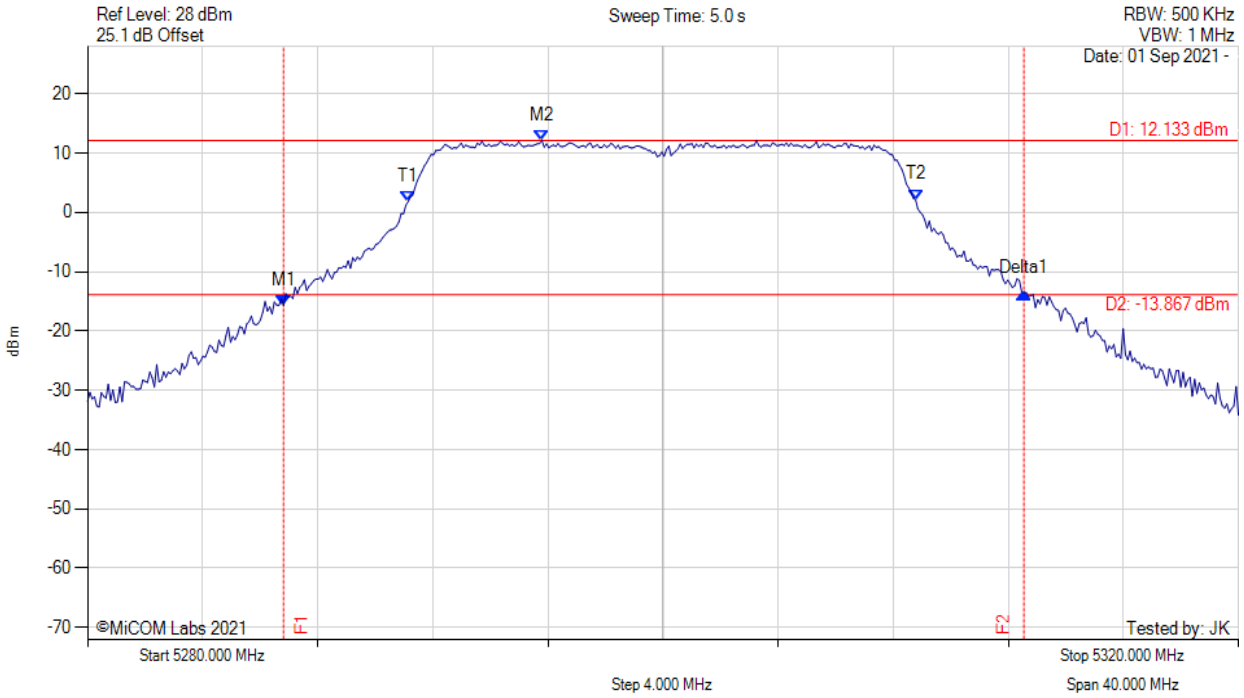


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5247.214 MHz : -13.761 dBm M2 : 5262.605 MHz : 12.798 dBm Delta1 : 25.651 MHz : -0.500 dB T1 : 5251.062 MHz : 1.484 dBm T2 : 5268.778 MHz : 1.643 dBm OBW : 17.715 MHz	Measured 26 dB Bandwidth: 25.651 MHz Measured 99% Bandwidth: 17.715 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5300.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc

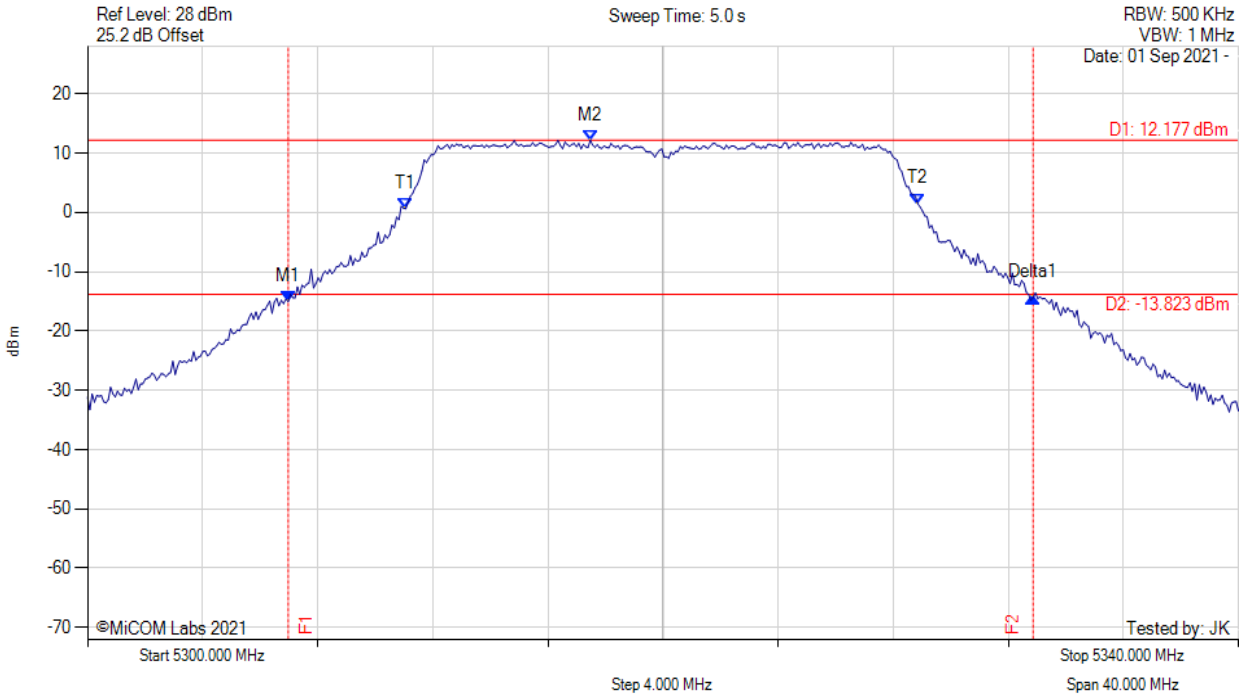


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5286.814 MHz : -15.730 dBm M2 : 5295.792 MHz : 12.133 dBm Delta1 : 25.731 MHz : 2.198 dB T1 : 5291.142 MHz : 1.842 dBm T2 : 5308.778 MHz : 2.151 dBm OBW : 17.635 MHz	Measured 26 dB Bandwidth: 25.731 MHz Measured 99% Bandwidth: 17.635 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5320.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc

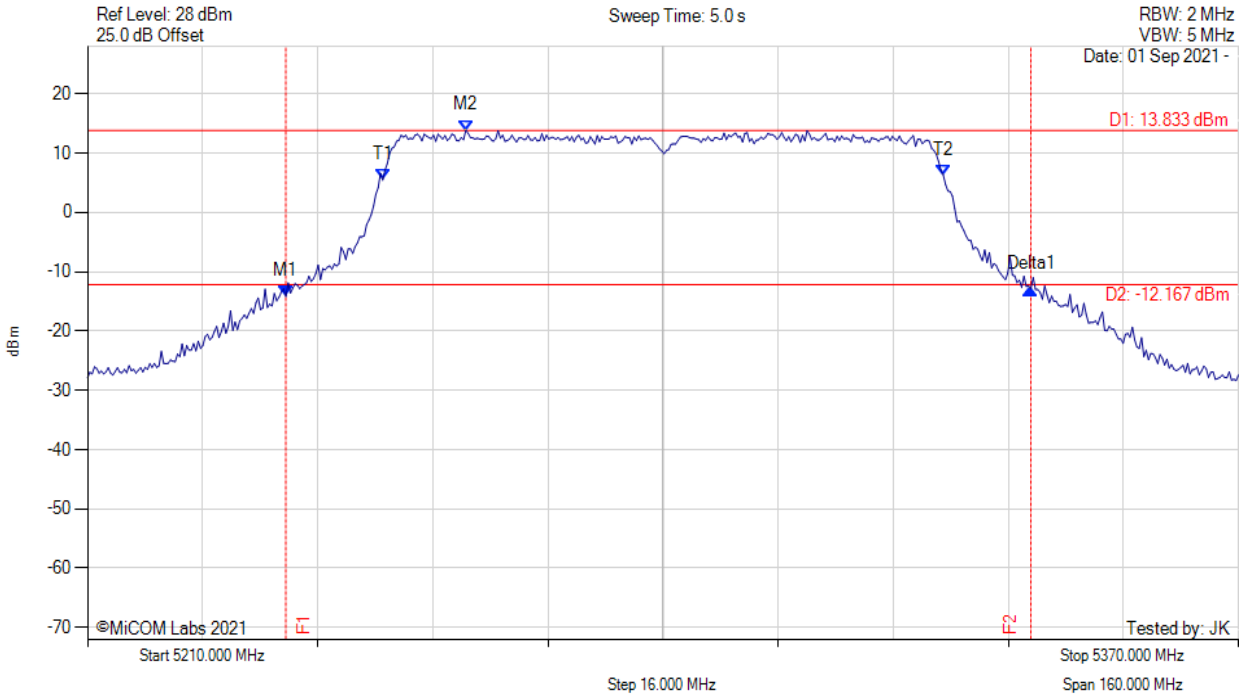


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5306.974 MHz : -15.052 dBm M2 : 5317.475 MHz : 12.177 dBm Delta1 : 25.892 MHz : 0.655 dB T1 : 5311.062 MHz : 0.620 dBm T2 : 5328.858 MHz : 1.454 dBm OBW : 17.796 MHz	Measured 26 dB Bandwidth: 25.892 MHz Measured 99% Bandwidth: 17.796 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5290.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc

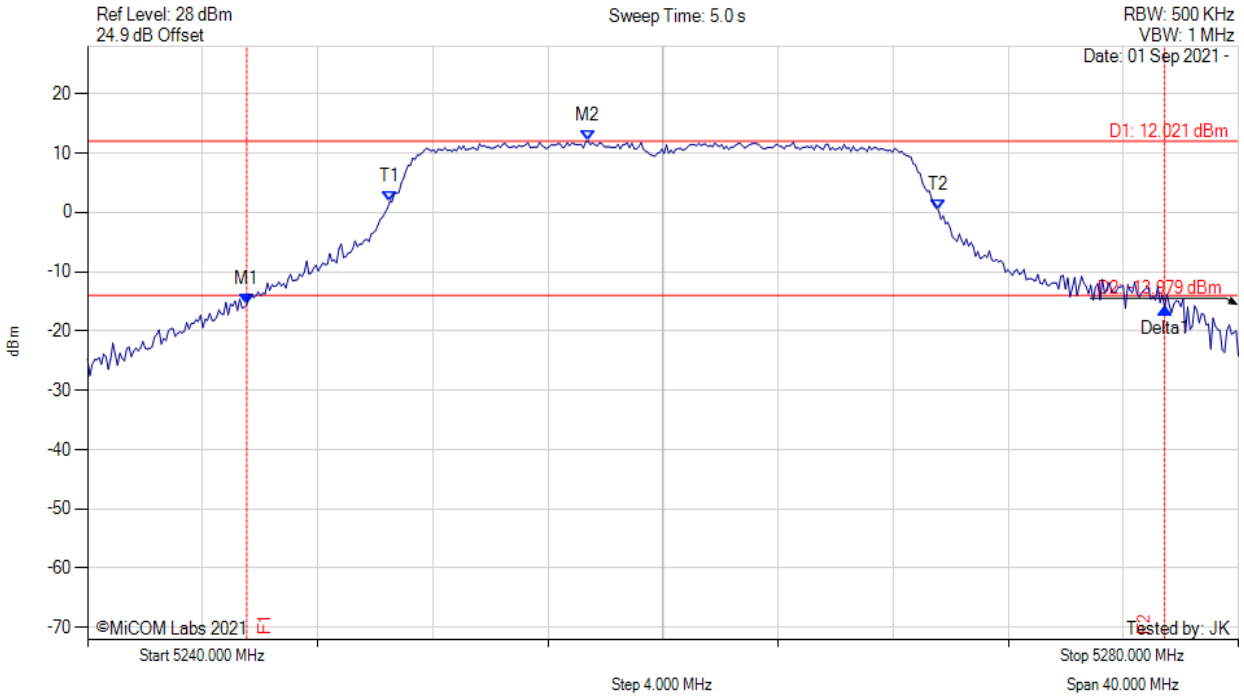


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5237.575 MHz : -14.180 dBm M2 : 5262.585 MHz : 13.833 dBm Delta1 : 103.567 MHz : 1.285 dB T1 : 5251.042 MHz : 5.464 dBm T2 : 5328.958 MHz : 6.337 dBm OBW : 77.916 MHz	Measured 26 dB Bandwidth: 103.567 MHz Measured 99% Bandwidth: 77.916 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5260.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc

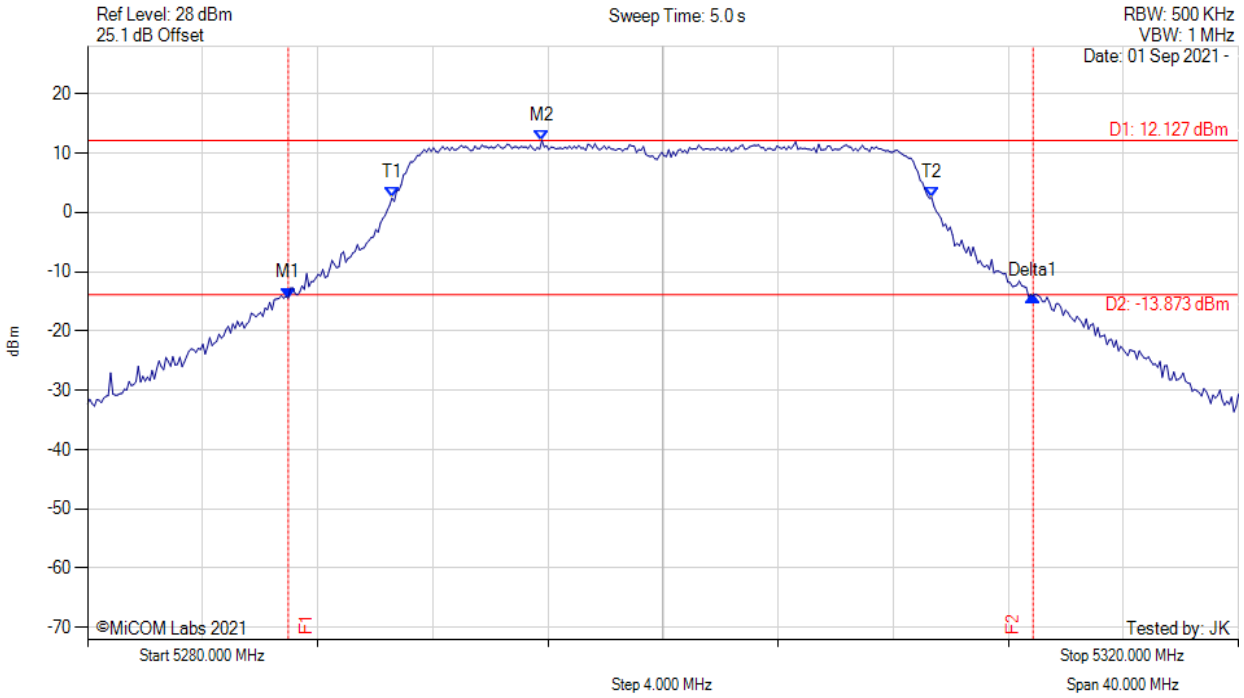


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5245.531 MHz : -15.579 dBm M2 : 5257.395 MHz : 12.021 dBm Delta1 : 31.904 MHz : -0.543 dB T1 : 5250.501 MHz : 1.789 dBm T2 : 5269.579 MHz : 0.306 dBm OBW : 19.078 MHz	Measured 26 dB Bandwidth: 31.904 MHz Measured 99% Bandwidth: 19.078 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5300.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc

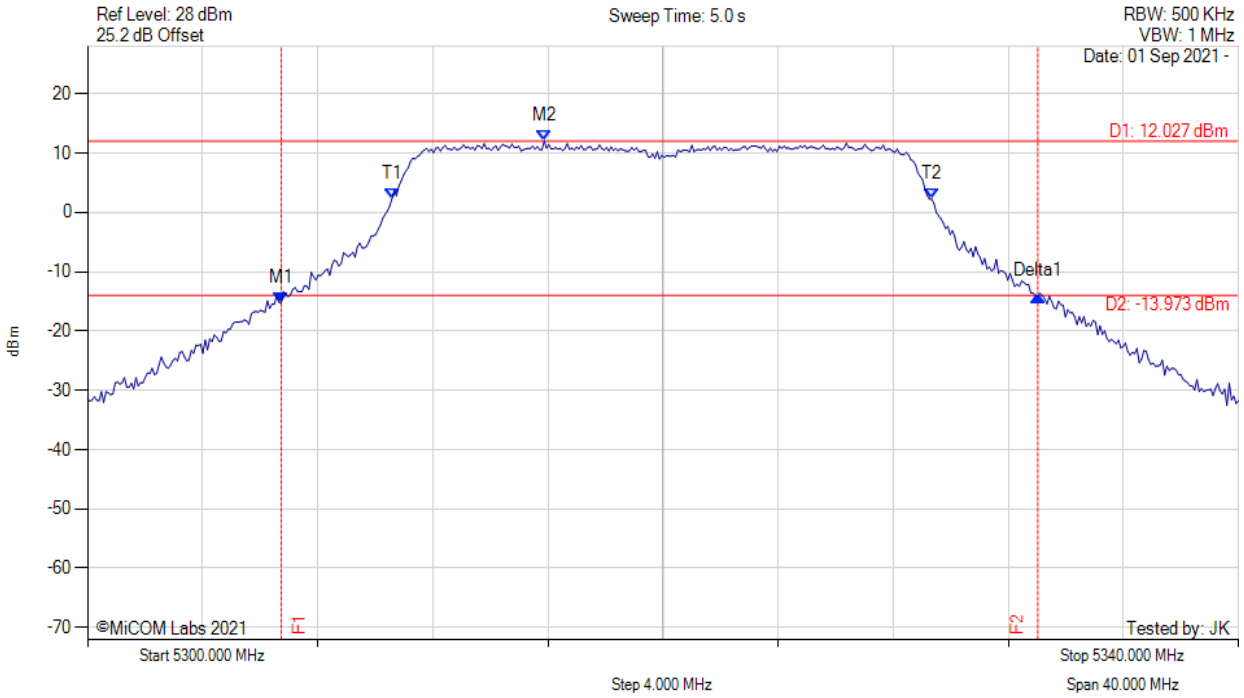


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5286.974 MHz : -14.442 dBm M2 : 5295.792 MHz : 12.127 dBm Delta1 : 25.892 MHz : 0.388 dB T1 : 5290.581 MHz : 2.413 dBm T2 : 5309.339 MHz : 2.470 dBm OBW : 18.758 MHz	Measured 26 dB Bandwidth: 25.892 MHz Measured 99% Bandwidth: 18.758 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5320.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc

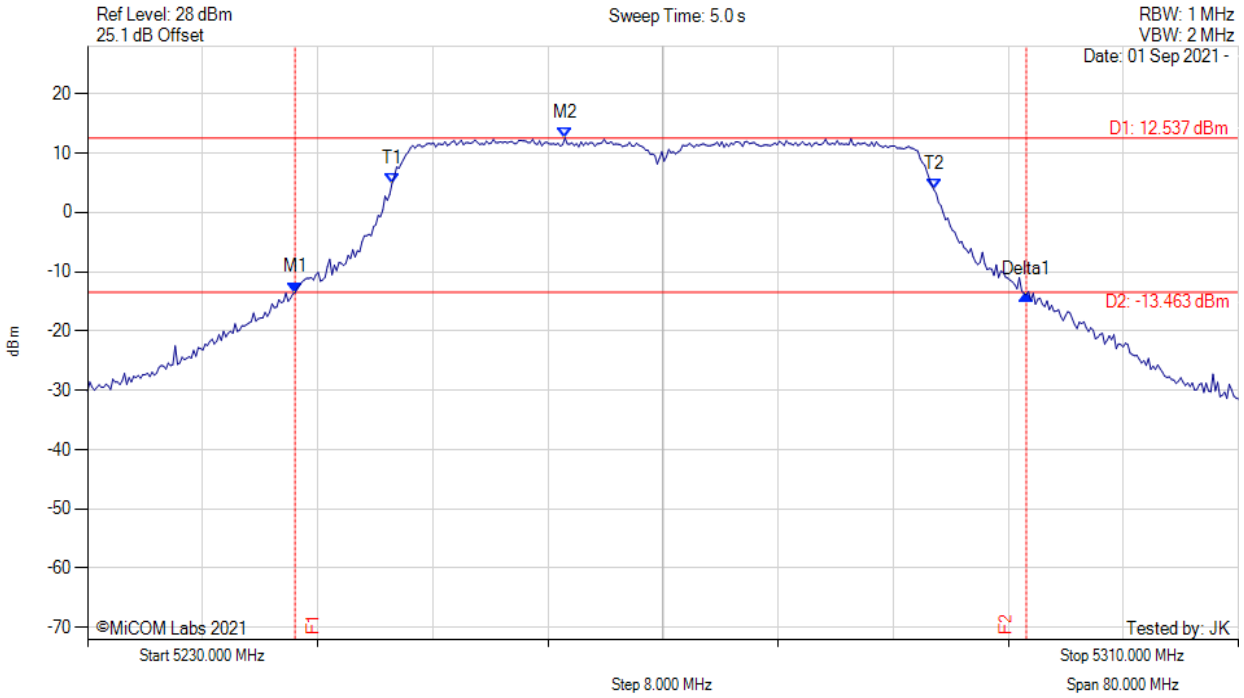


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5306.733 MHz : -15.162 dBm M2 : 5315.872 MHz : 12.027 dBm Delta1 : 26.293 MHz : 1.076 dB T1 : 5310.581 MHz : 2.273 dBm T2 : 5329.339 MHz : 2.239 dBm OBW : 18.758 MHz	Measured 26 dB Bandwidth: 26.293 MHz Measured 99% Bandwidth: 18.758 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5270.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc

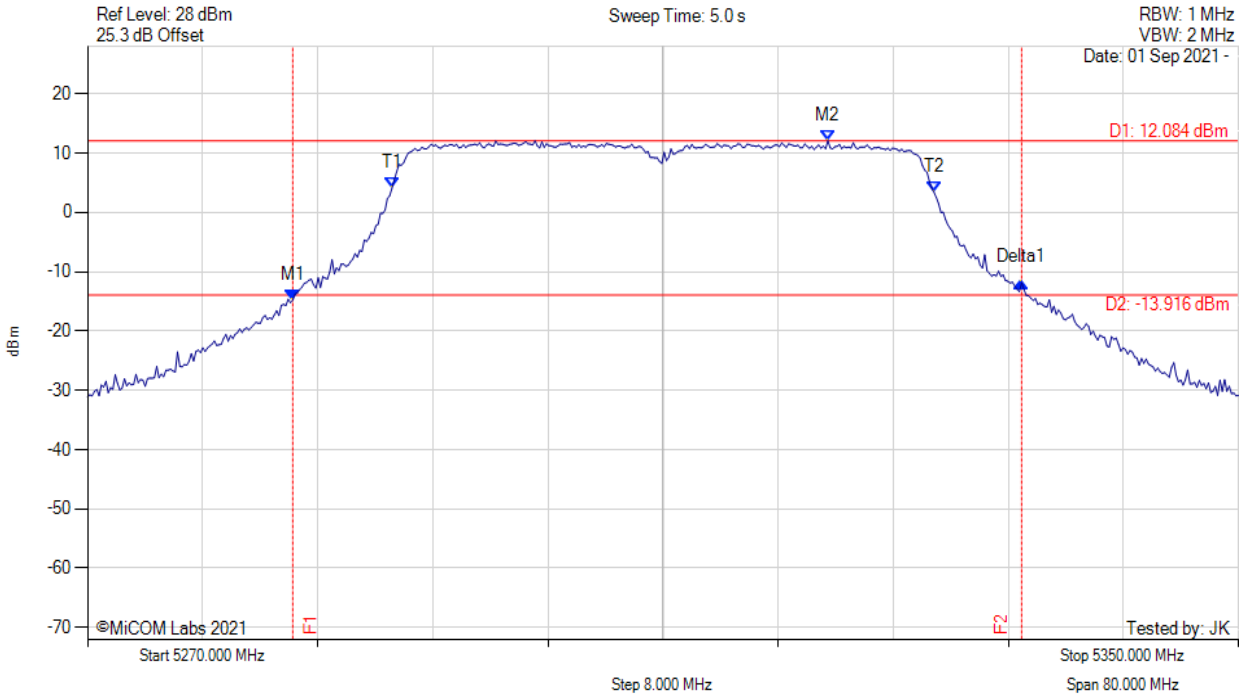


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5244.429 MHz : -13.507 dBm M2 : 5263.186 MHz : 12.537 dBm Delta1 : 50.822 MHz : -0.372 dB T1 : 5251.162 MHz : 4.834 dBm T2 : 5288.838 MHz : 3.831 dBm OBW : 37.675 MHz	Measured 26 dB Bandwidth: 50.822 MHz Measured 99% Bandwidth: 37.675 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5310.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc

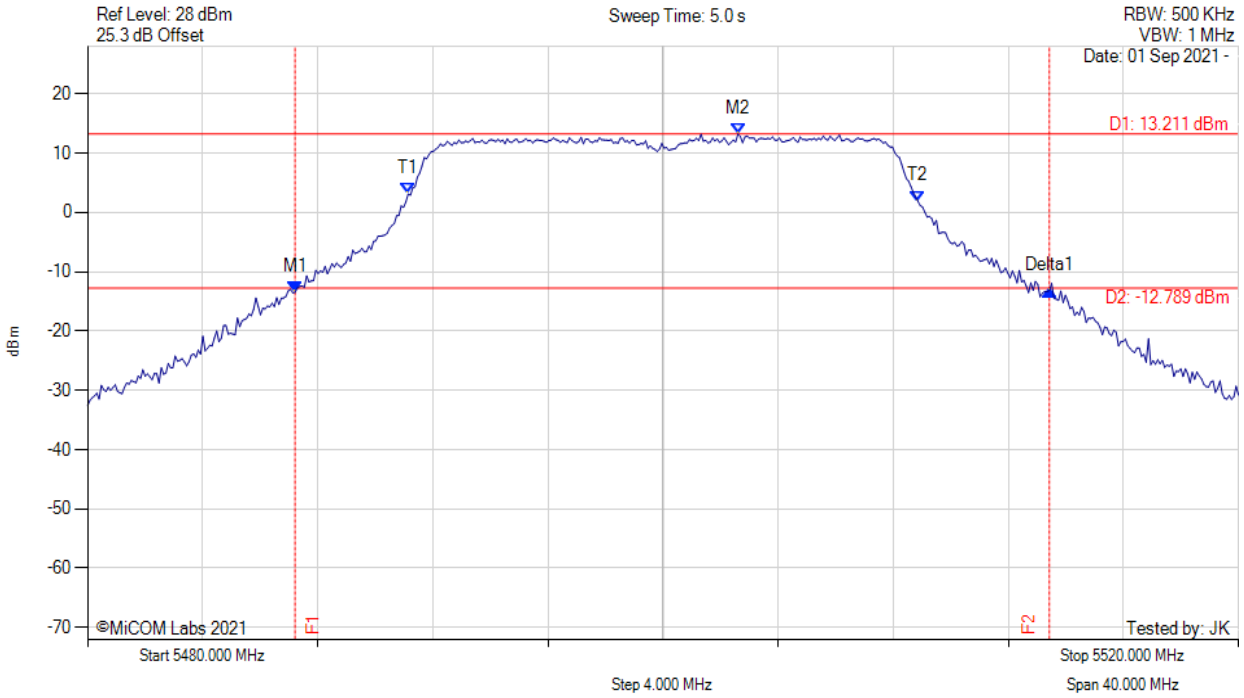


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5284.269 MHz : -14.770 dBm M2 : 5321.463 MHz : 12.084 dBm Delta1 : 50.661 MHz : 2.912 dB T1 : 5291.162 MHz : 4.069 dBm T2 : 5328.838 MHz : 3.404 dBm OBW : 37.675 MHz	Measured 26 dB Bandwidth: 50.661 MHz Measured 99% Bandwidth: 37.675 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5500.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc

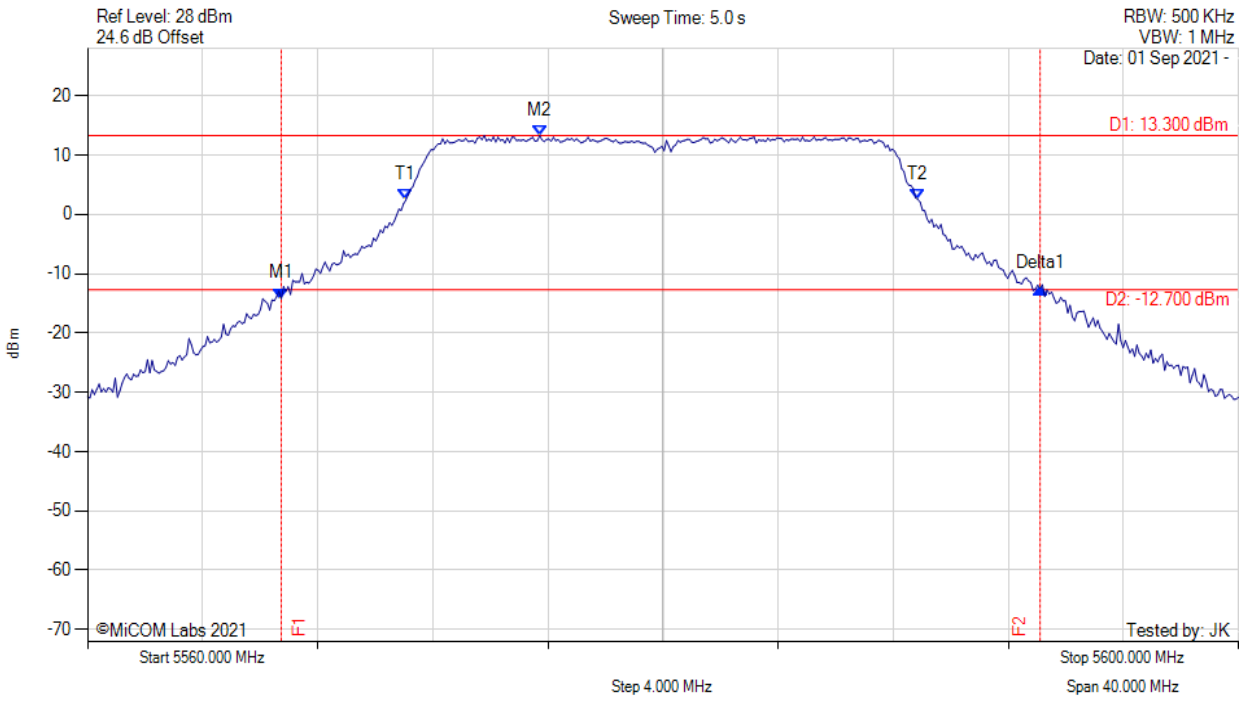


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5487.214 MHz : -13.454 dBm M2 : 5502.605 MHz : 13.211 dBm Delta1 : 26.212 MHz : 0.264 dB T1 : 5491.142 MHz : 3.099 dBm T2 : 5508.858 MHz : 1.899 dBm OBW : 17.715 MHz	Measured 26 dB Bandwidth: 26.212 MHz Measured 99% Bandwidth: 17.715 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5580.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc

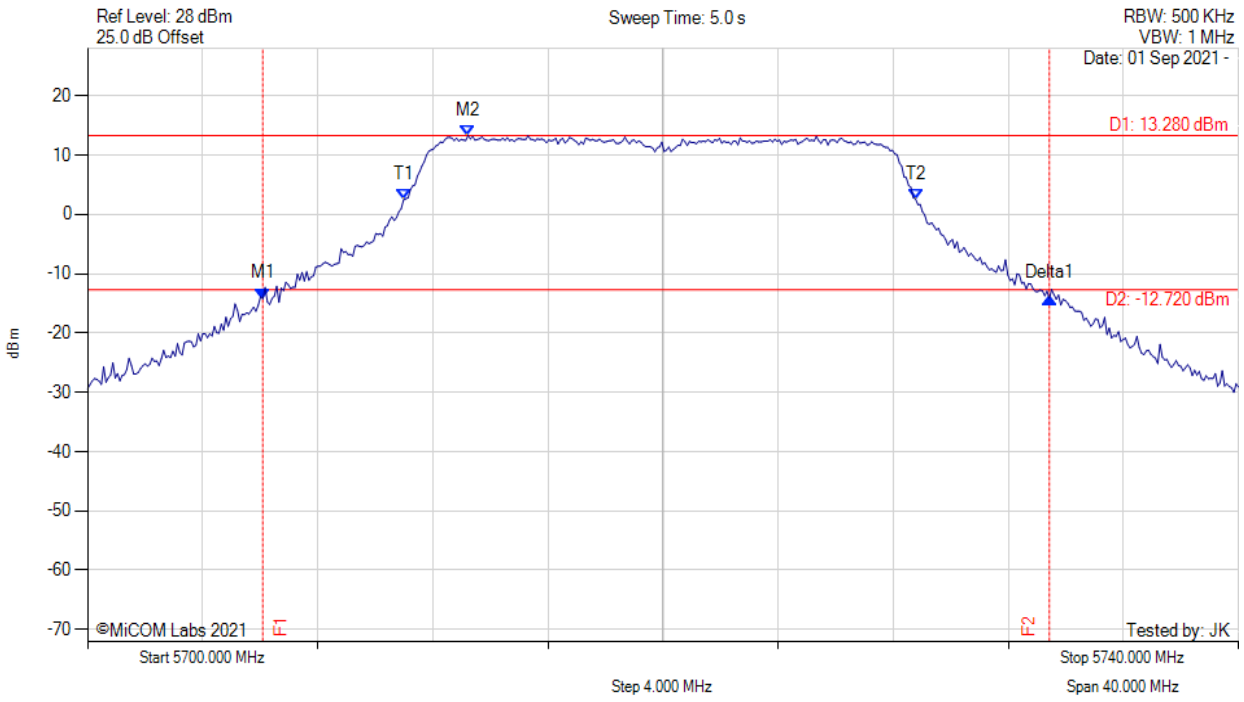


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5566.733 MHz : -14.212 dBm M2 : 5575.711 MHz : 13.300 dBm Delta1 : 26.373 MHz : 1.804 dB T1 : 5571.062 MHz : 2.401 dBm T2 : 5588.858 MHz : 2.525 dBm OBW : 17.796 MHz	Measured 26 dB Bandwidth: 26.373 MHz Measured 99% Bandwidth: 17.796 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5720.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc

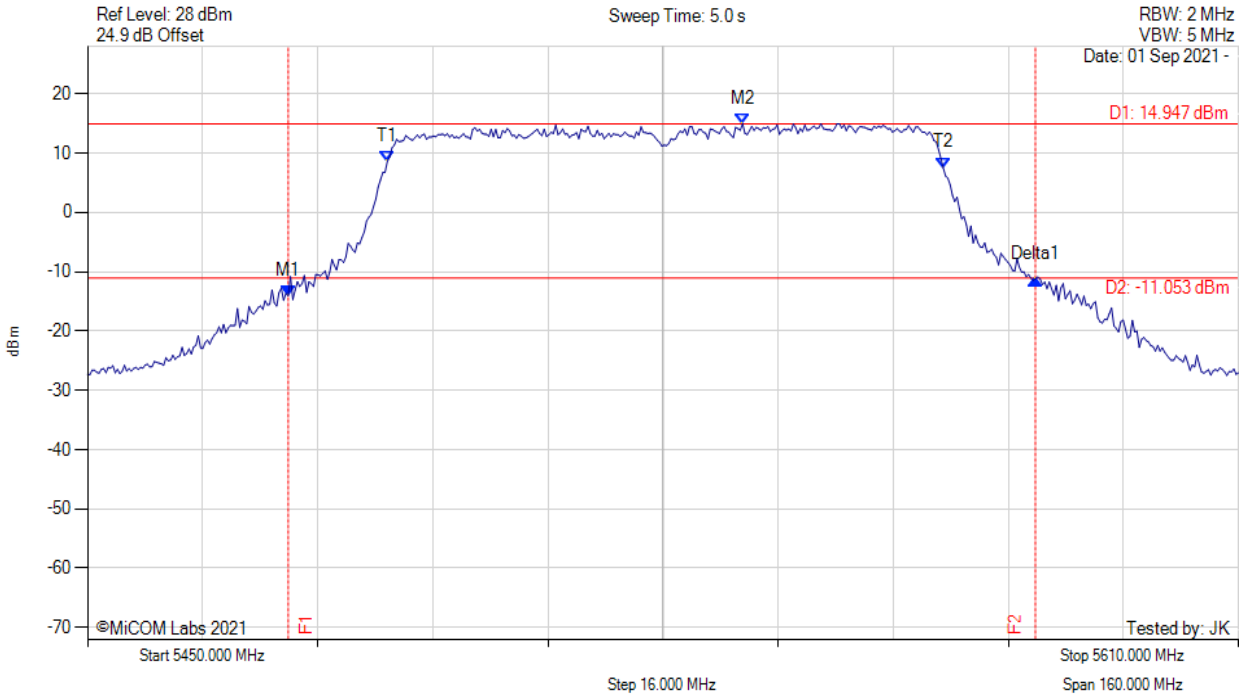


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5706.092 MHz : -14.221 dBm M2 : 5713.226 MHz : 13.280 dBm Delta1 : 27.335 MHz : 0.108 dB T1 : 5710.982 MHz : 2.448 dBm T2 : 5728.778 MHz : 2.596 dBm OBW : 17.796 MHz	Measured 26 dB Bandwidth: 27.335 MHz Measured 99% Bandwidth: 17.796 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5530.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5477.896 MHz : -14.052 dBm M2 : 5541.062 MHz : 14.947 dBm Delta1 : 103.888 MHz : 2.835 dB T1 : 5491.683 MHz : 8.600 dBm T2 : 5568.958 MHz : 7.508 dBm OBW : 77.275 MHz	Measured 26 dB Bandwidth: 103.888 MHz Measured 99% Bandwidth: 77.275 MHz

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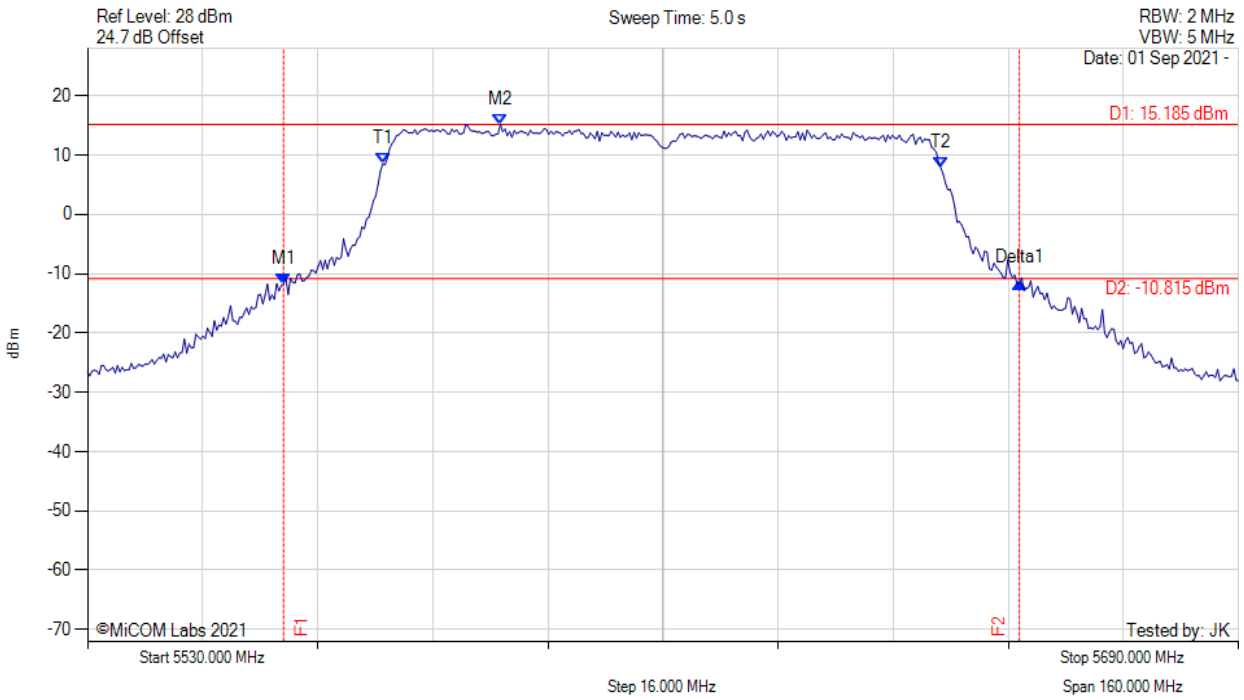
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5610.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5557.255 MHz : -11.684 dBm M2 : 5587.395 MHz : 15.185 dBm Delta1 : 102.285 MHz : 0.134 dB T1 : 5571.042 MHz : 8.533 dBm T2 : 5648.637 MHz : 7.778 dBm OBW : 77.595 MHz	Measured 26 dB Bandwidth: 102.285 MHz Measured 99% Bandwidth: 77.595 MHz

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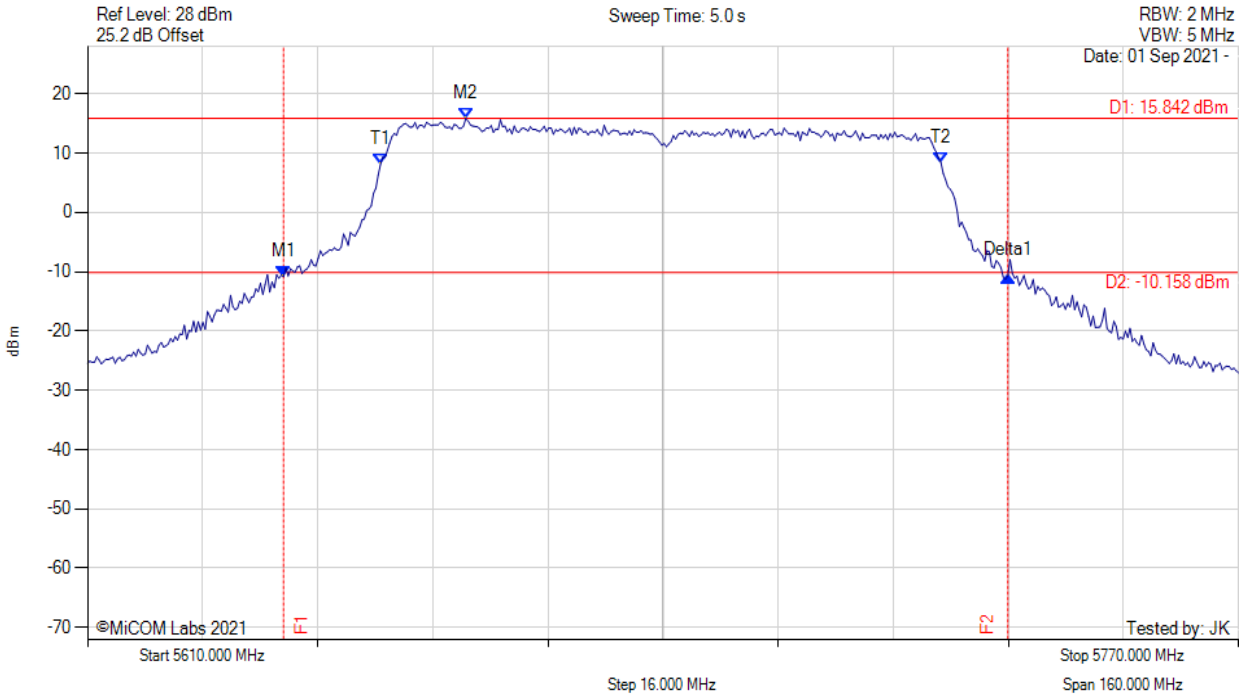
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5690.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5637.255 MHz : -10.828 dBm M2 : 5662.585 MHz : 15.842 dBm Delta1 : 100.681 MHz : 0.124 dB T1 : 5650.721 MHz : 8.051 dBm T2 : 5728.637 MHz : 8.395 dBm OBW : 77.916 MHz	Measured 26 dB Bandwidth: 100.681 MHz Measured 99% Bandwidth: 77.916 MHz

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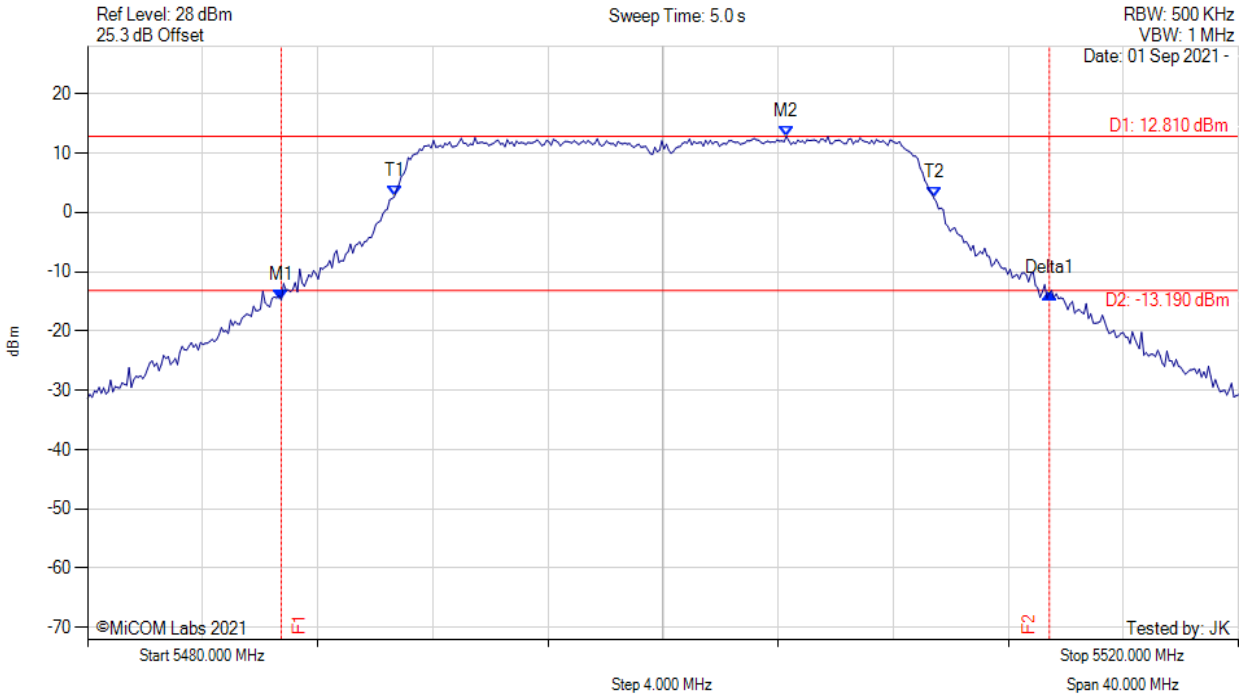
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5500.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5486.733 MHz : -14.798 dBm M2 : 5504.289 MHz : 12.810 dBm Delta1 : 26.693 MHz : 1.188 dB T1 : 5490.661 MHz : 2.629 dBm T2 : 5509.419 MHz : 2.401 dBm OBW : 18.758 MHz	Measured 26 dB Bandwidth: 26.693 MHz Measured 99% Bandwidth: 18.758 MHz

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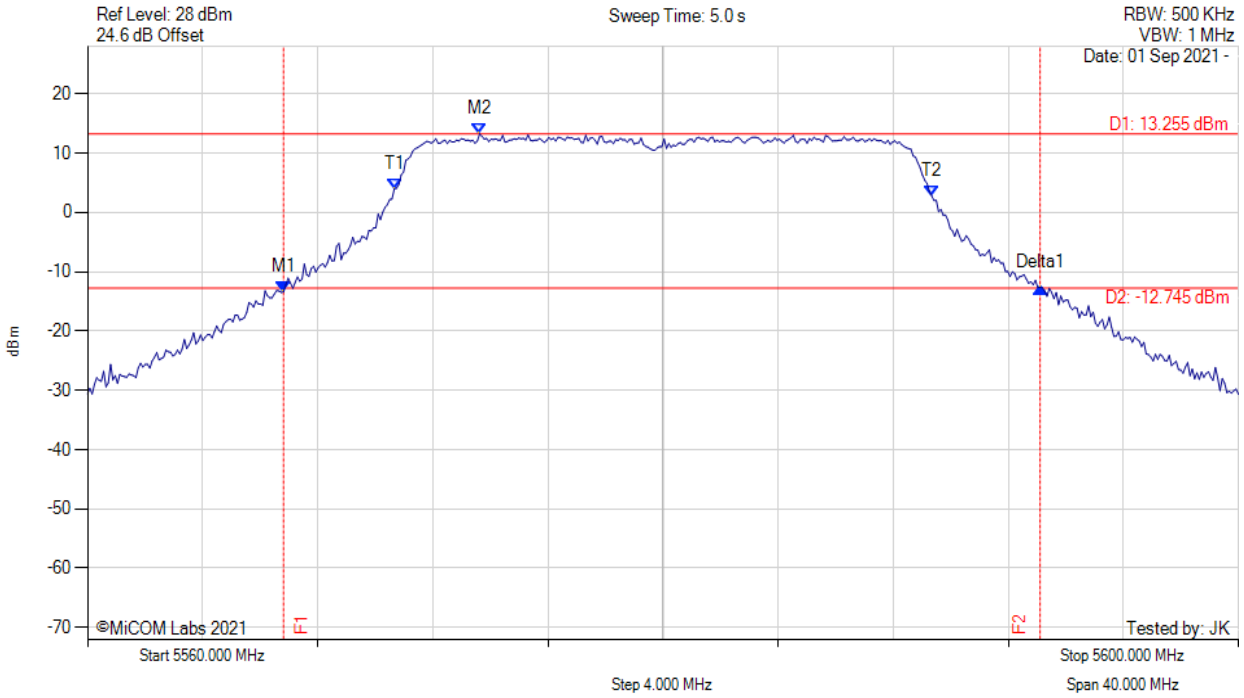
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5580.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5566.814 MHz : -13.385 dBm M2 : 5573.627 MHz : 13.255 dBm Delta1 : 26.293 MHz : 0.742 dB T1 : 5570.661 MHz : 3.990 dBm T2 : 5589.339 MHz : 2.798 dBm OBW : 18.677 MHz	Measured 26 dB Bandwidth: 26.293 MHz Measured 99% Bandwidth: 18.677 MHz

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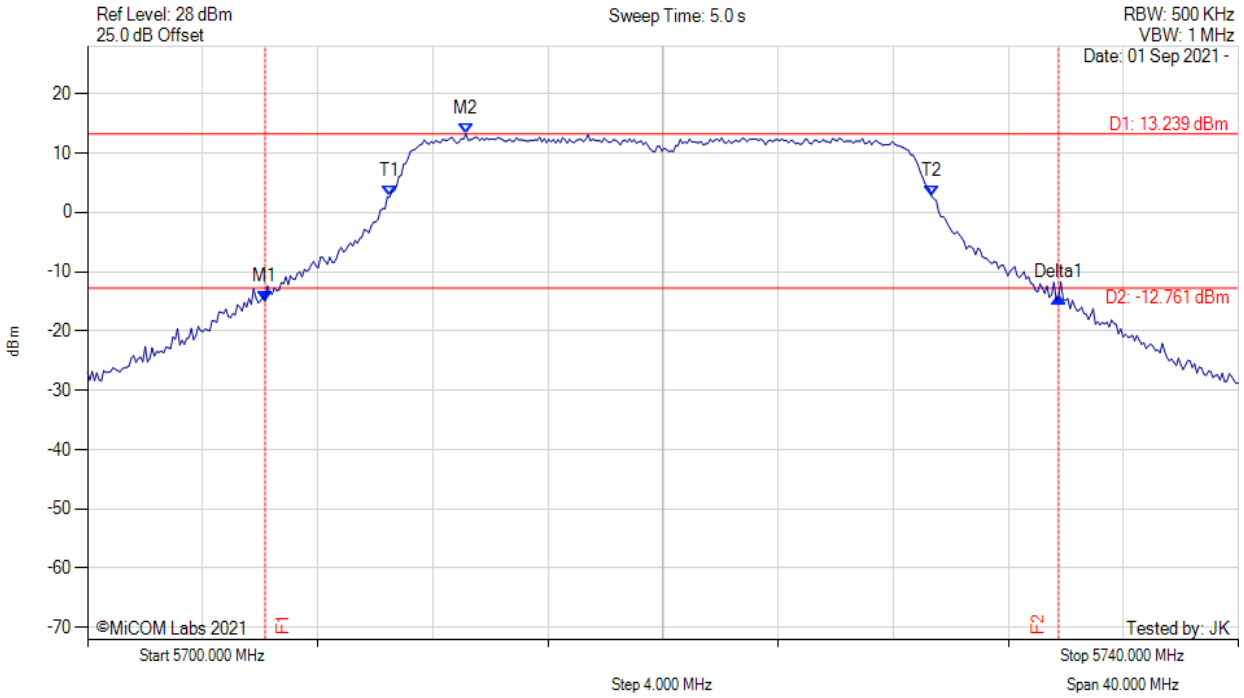
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5720.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5706.172 MHz : -14.969 dBm M2 : 5713.146 MHz : 13.239 dBm Delta1 : 27.575 MHz : 0.622 dB T1 : 5710.501 MHz : 2.641 dBm T2 : 5729.339 MHz : 2.700 dBm OBW : 18.838 MHz	Measured 26 dB Bandwidth: 27.575 MHz Measured 99% Bandwidth: 18.838 MHz

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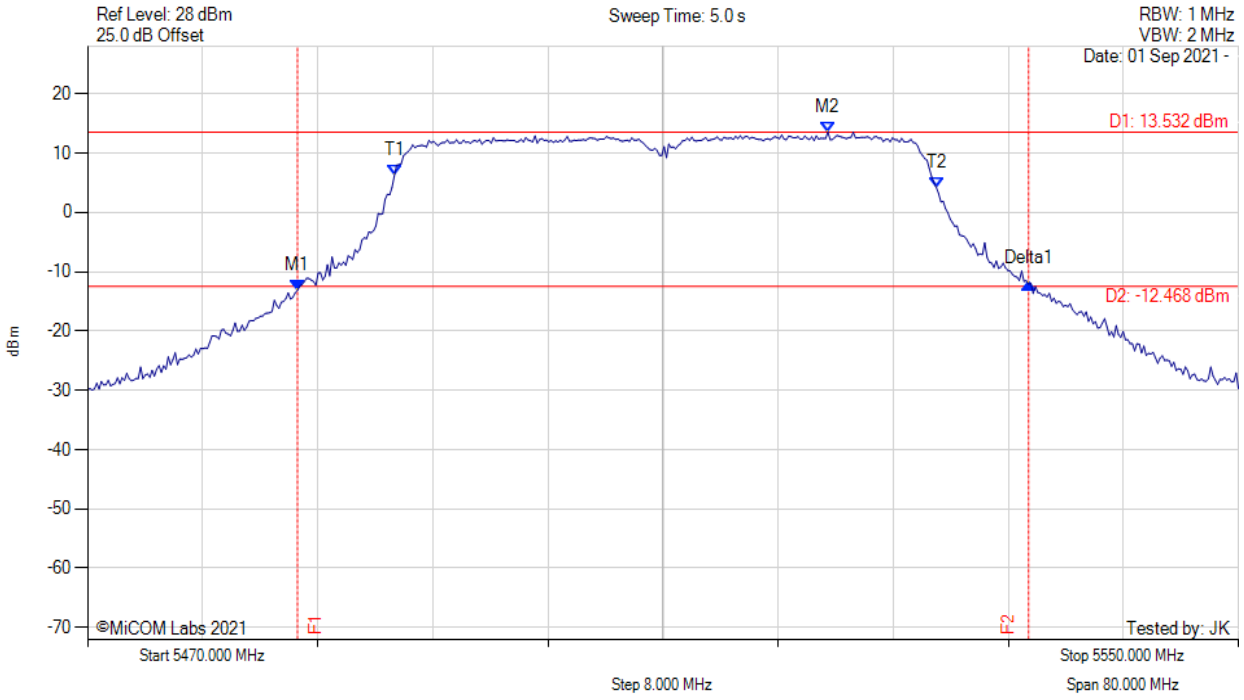
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5510.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc

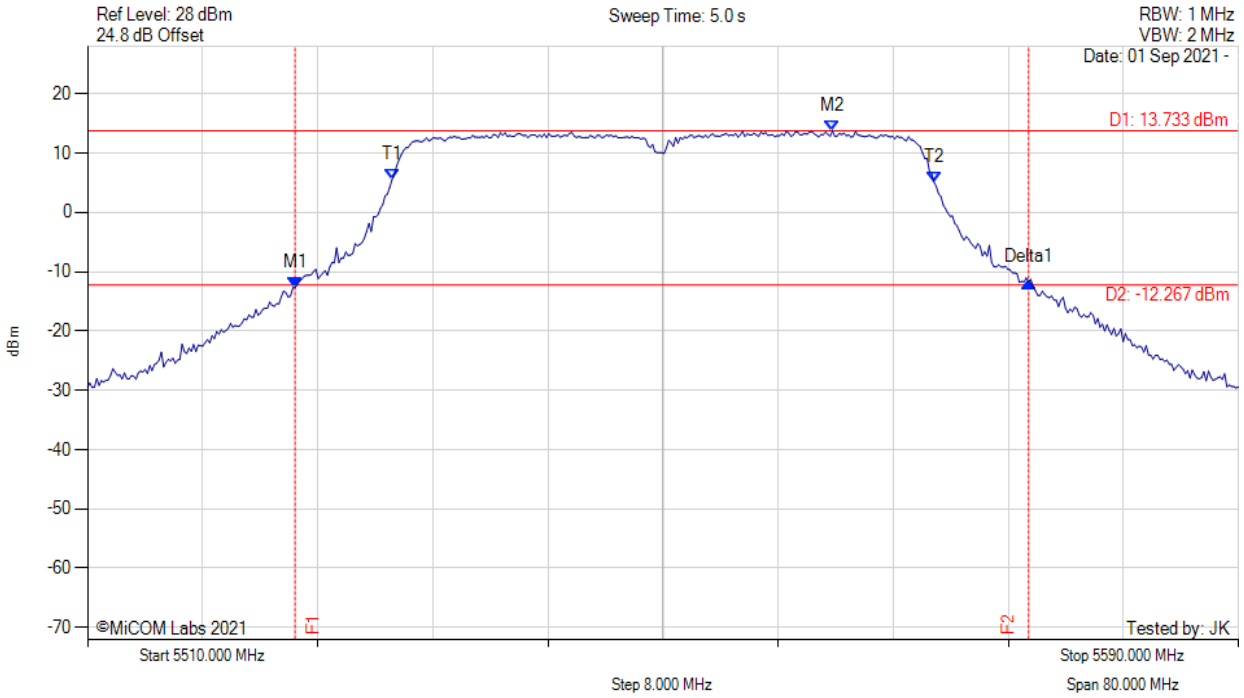


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5484.589 MHz : -13.157 dBm M2 : 5521.463 MHz : 13.532 dBm Delta1 : 50.822 MHz : 1.088 dB T1 : 5491.323 MHz : 6.162 dBm T2 : 5528.998 MHz : 4.217 dBm OBW : 37.675 MHz	Measured 26 dB Bandwidth: 50.822 MHz Measured 99% Bandwidth: 37.675 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5550.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc

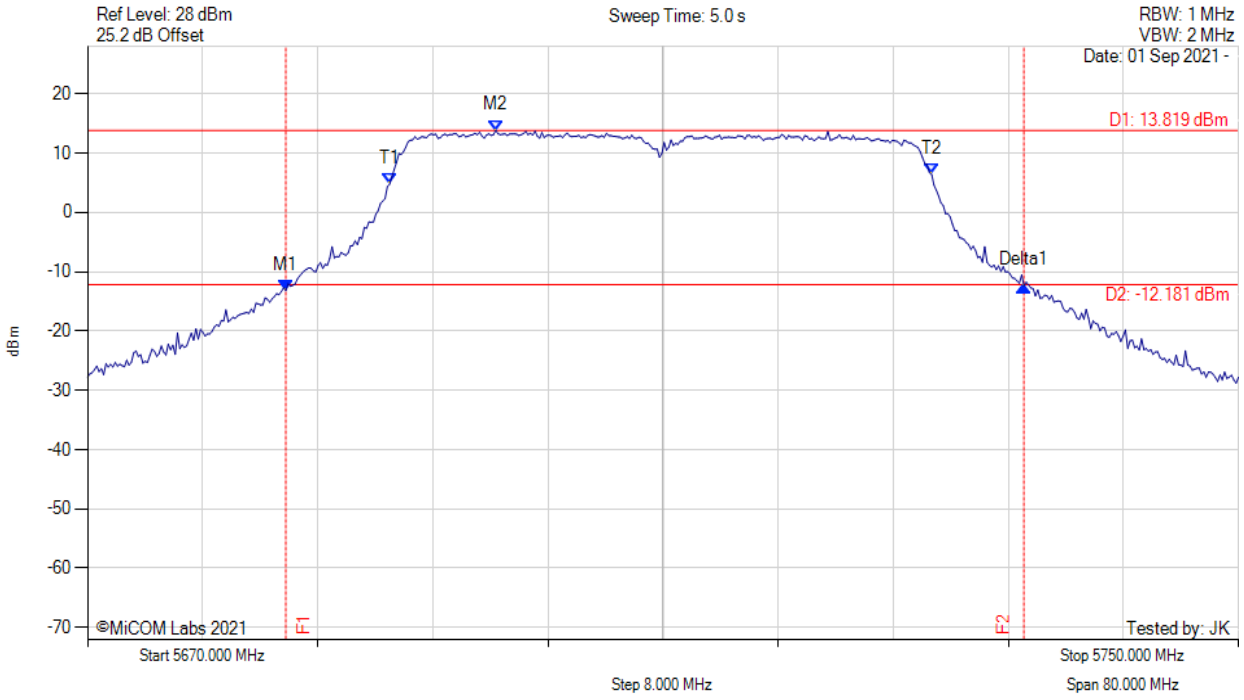


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5524.429 MHz : -12.671 dBm M2 : 5561.784 MHz : 13.733 dBm Delta1 : 50.982 MHz : 0.992 dB T1 : 5531.162 MHz : 5.482 dBm T2 : 5568.838 MHz : 5.124 dBm OBW : 37.675 MHz	Measured 26 dB Bandwidth: 50.982 MHz Measured 99% Bandwidth: 37.675 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5710.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5683.788 MHz : -13.198 dBm M2 : 5698.377 MHz : 13.819 dBm Delta1 : 51.303 MHz : 0.866 dB T1 : 5691.002 MHz : 4.785 dBm T2 : 5728.677 MHz : 6.383 dBm OBW : 37.675 MHz	Measured 26 dB Bandwidth: 51.303 MHz Measured 99% Bandwidth: 37.675 MHz

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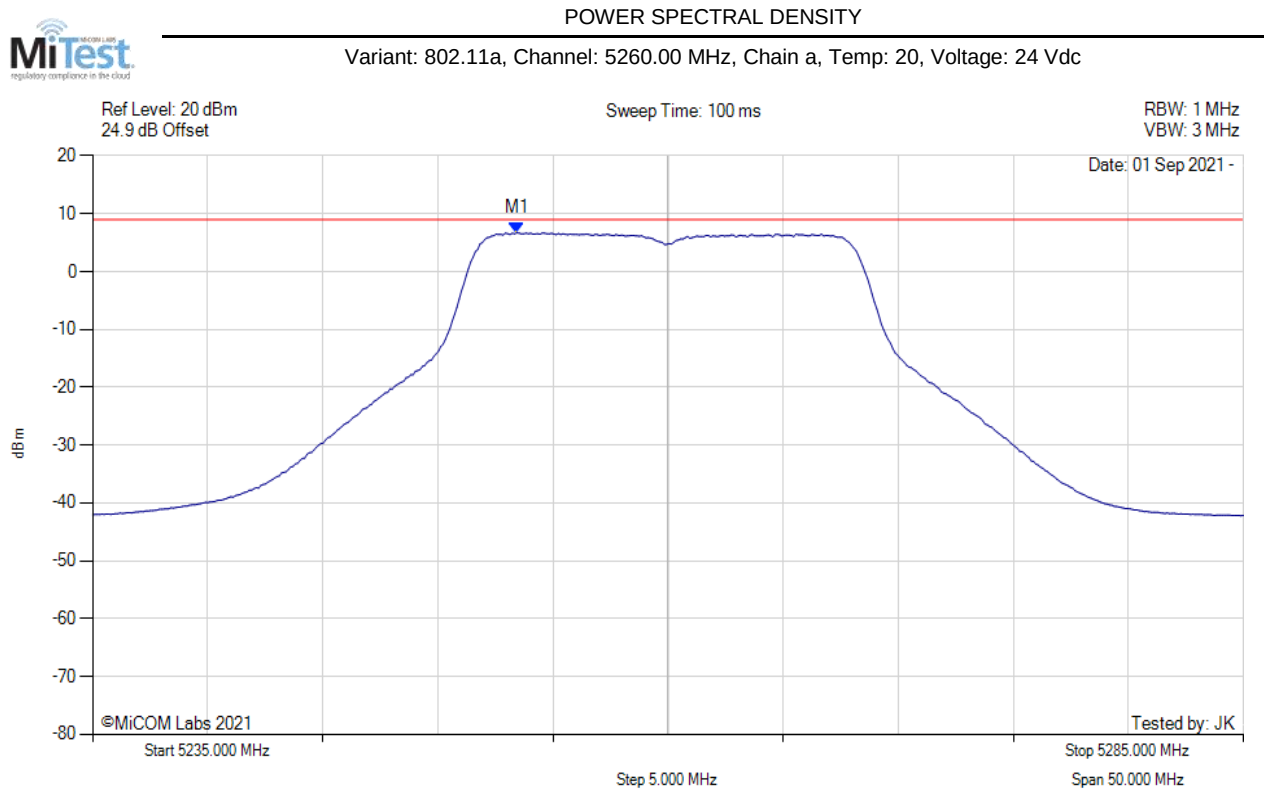
A.2. Power Spectral Density

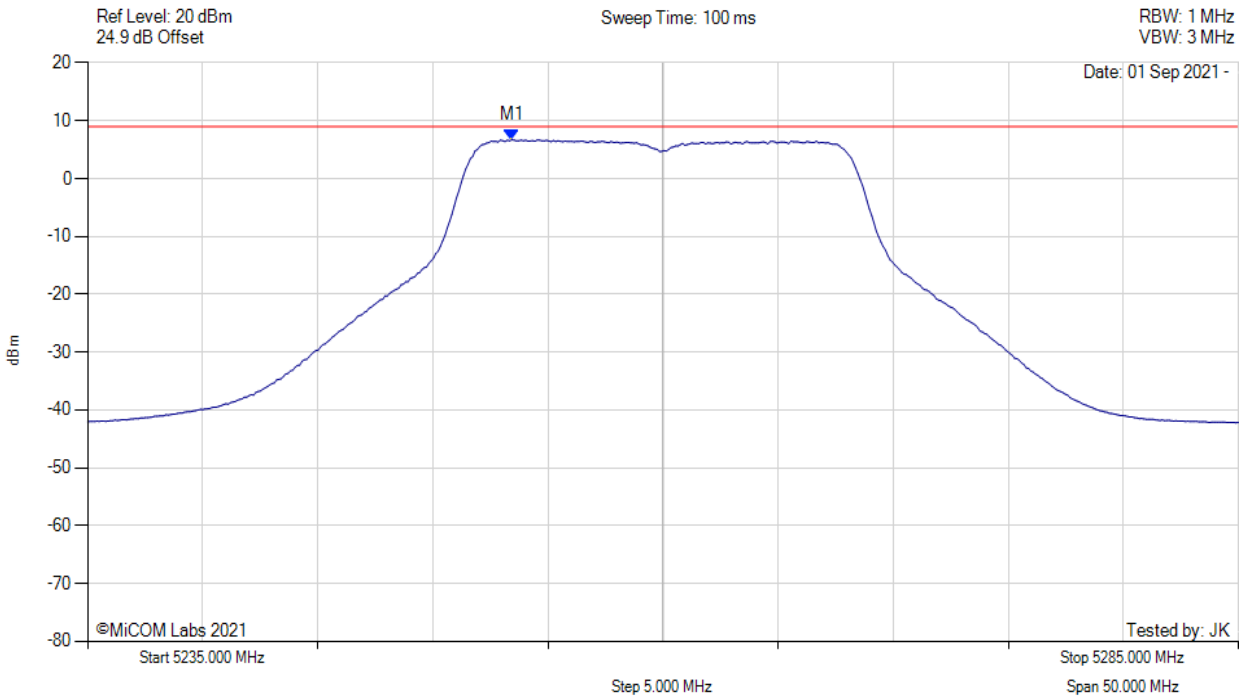


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5253.437 MHz : 6.700 dBm	Limit: ≤ 9.000 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5260.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc

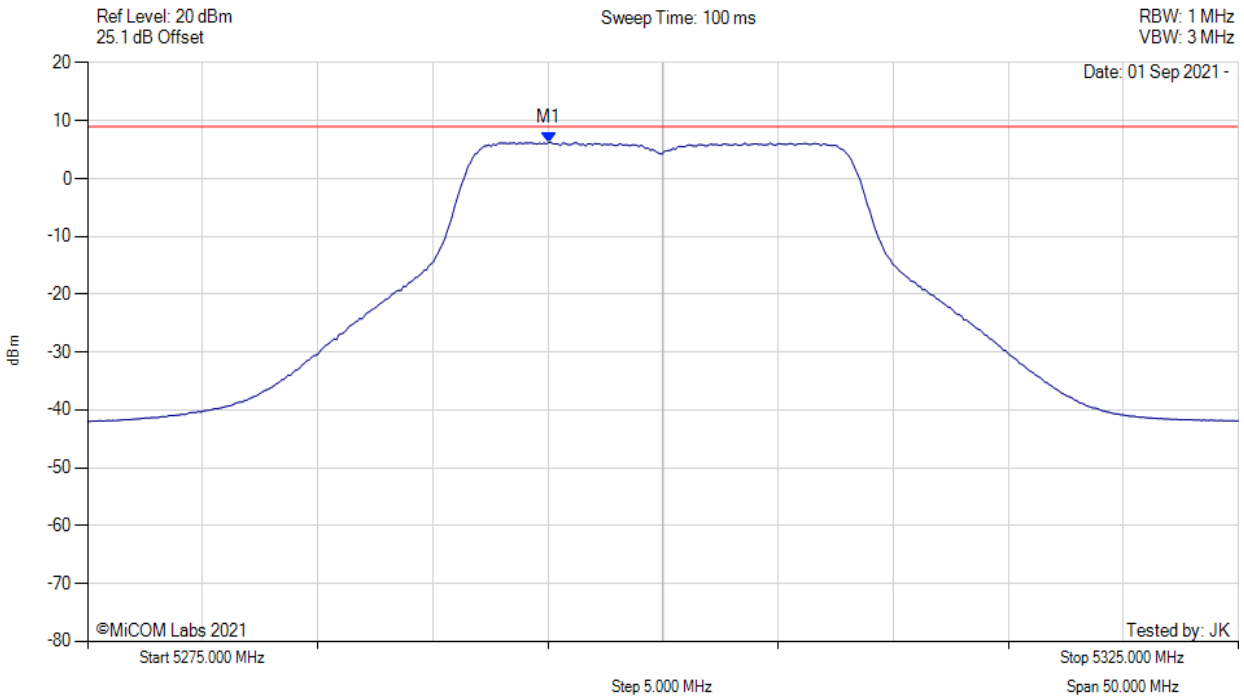


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5253.400 MHz : 6.700 dBm M1 + DCCF : 5253.400 MHz : 6.810 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 9.0 dBm Margin: -2.2 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5300.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc

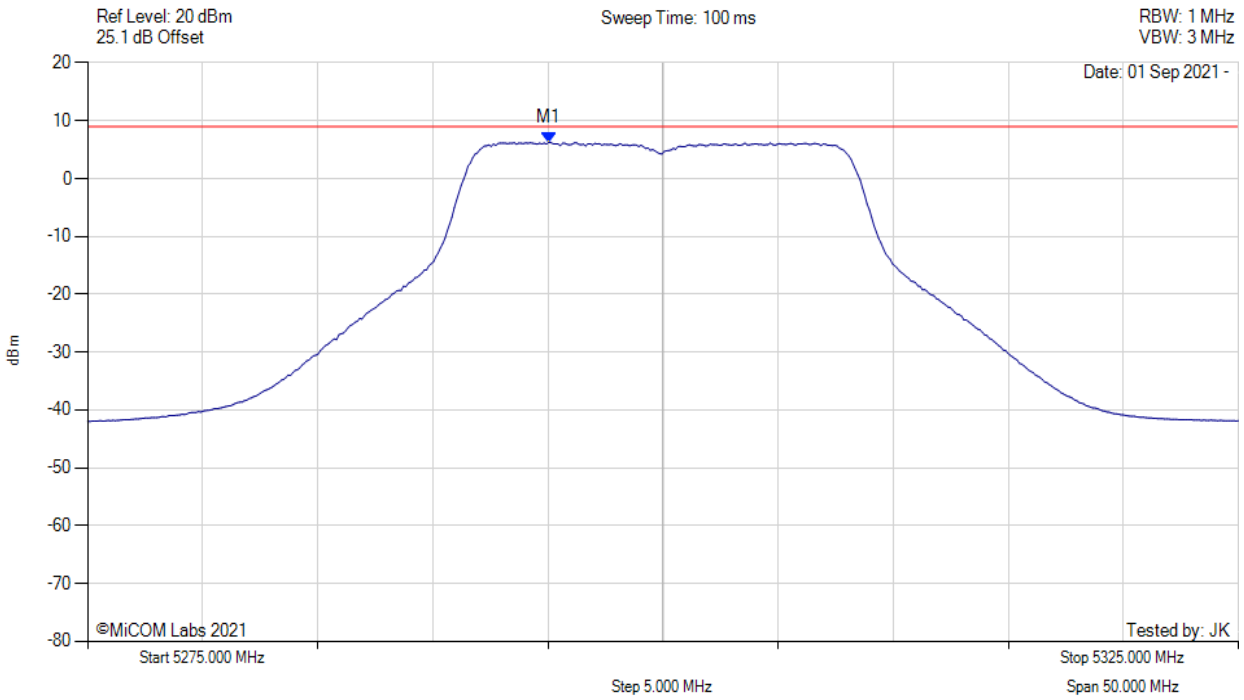


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5295.040 MHz : 6.285 dBm	Limit: ≤ 9.000 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5300.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc

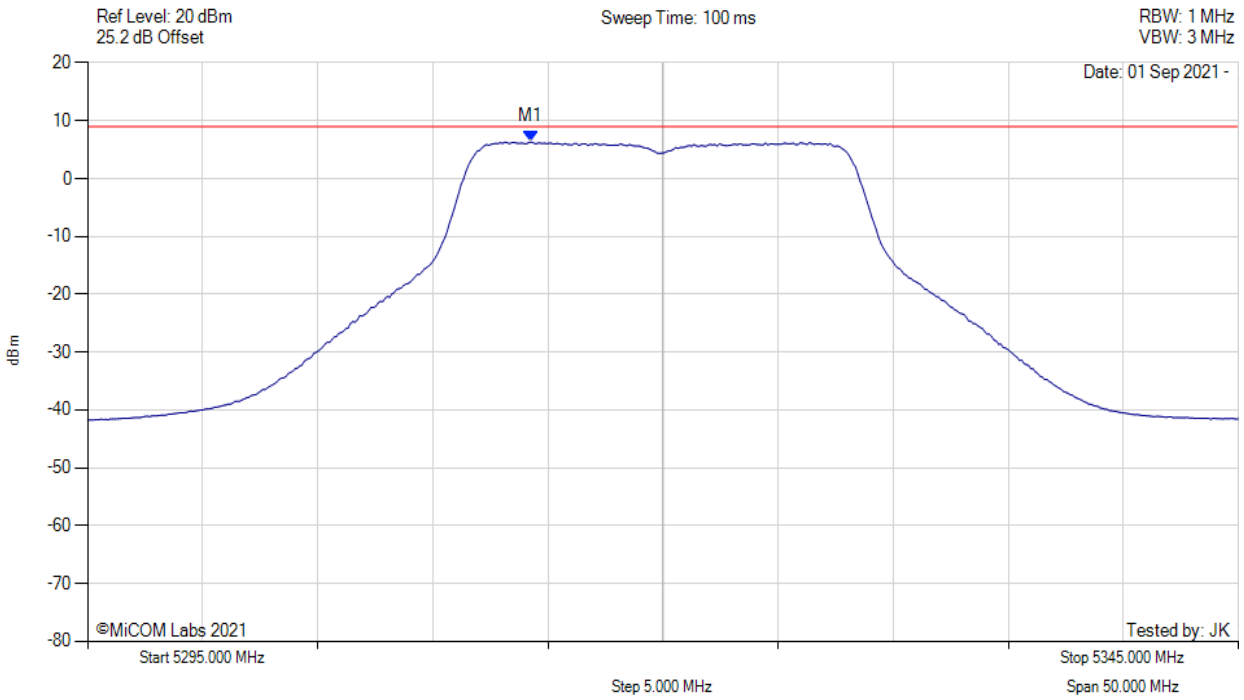


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5295.000 MHz : 6.285 dBm M1 + DCCF : 5295.000 MHz : 6.395 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 9.0 dBm Margin: -2.6 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5320.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc

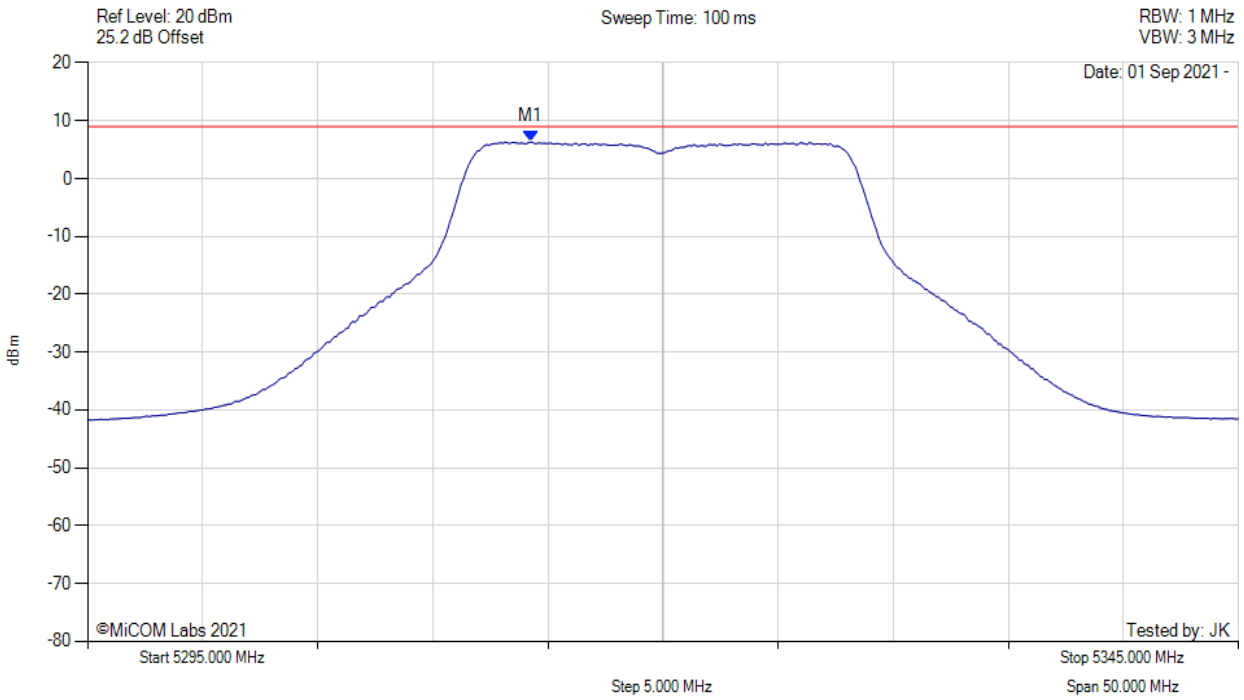


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5314.238 MHz : 6.329 dBm	Limit: ≤ 9.000 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5320.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc

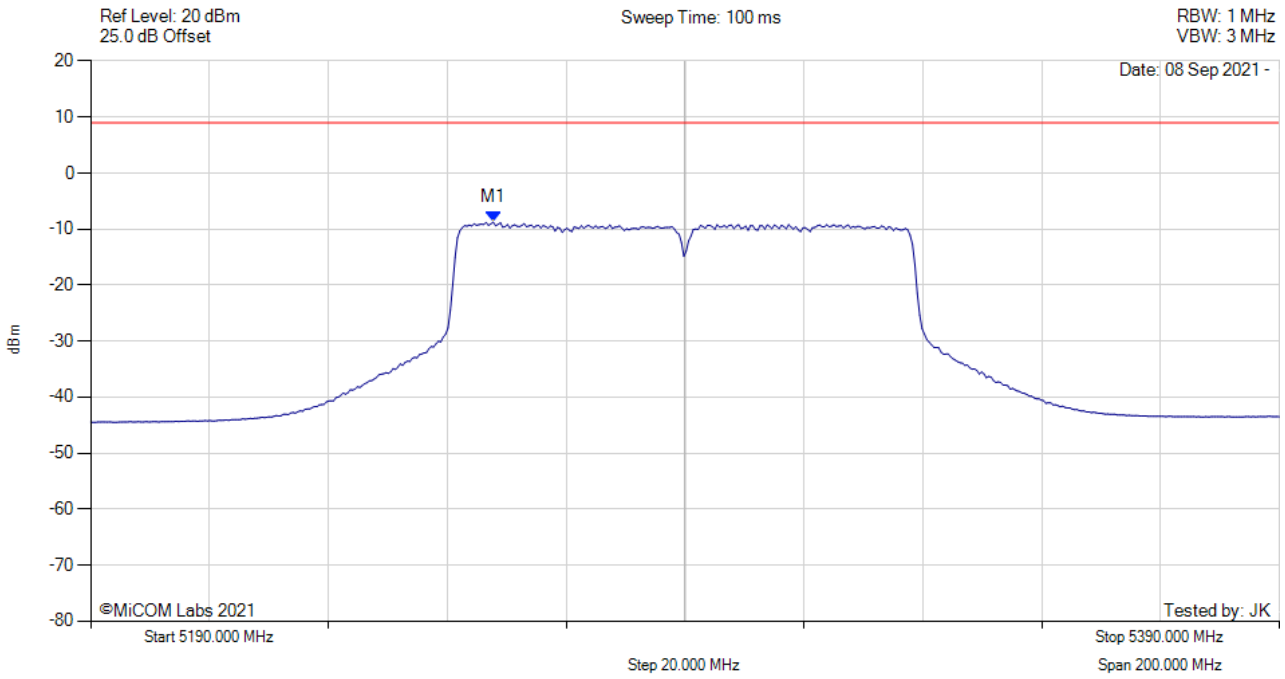


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5314.200 MHz : 6.329 dBm M1 + DCCF : 5314.200 MHz : 6.439 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 9.0 dBm Margin: -2.6 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5290.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc

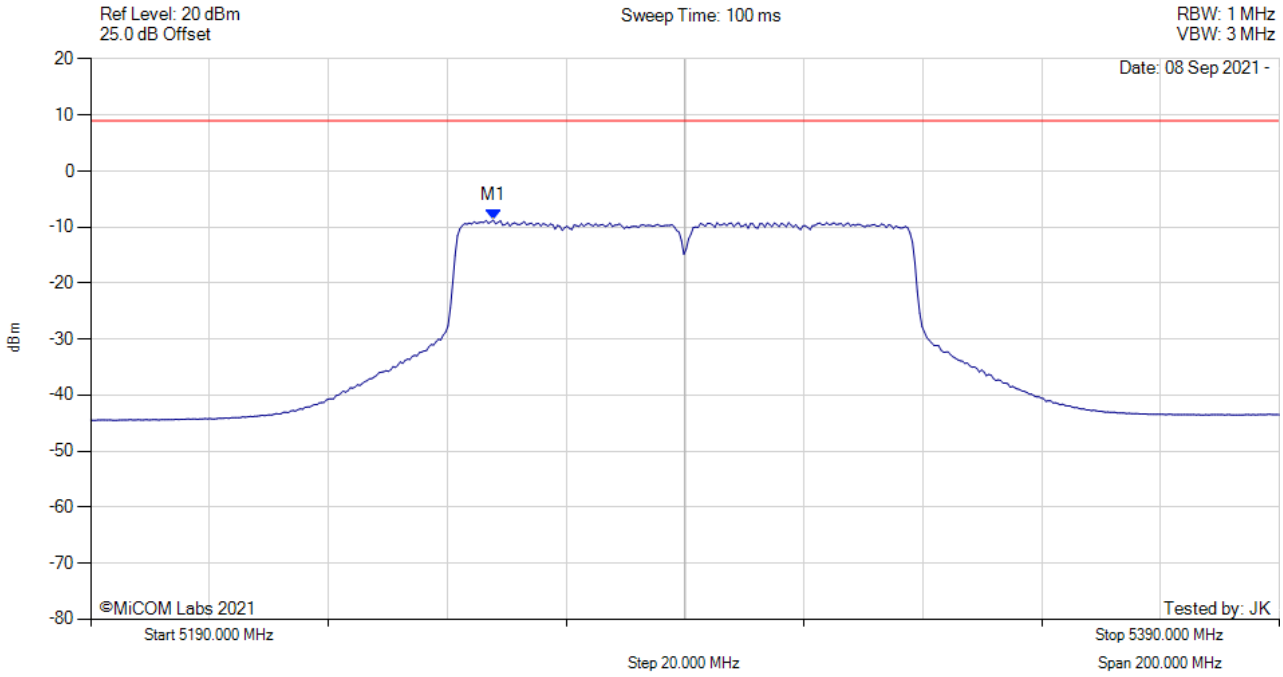


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5257.735 MHz : -8.744 dBm	Limit: ≤ 9.000 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5290.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc

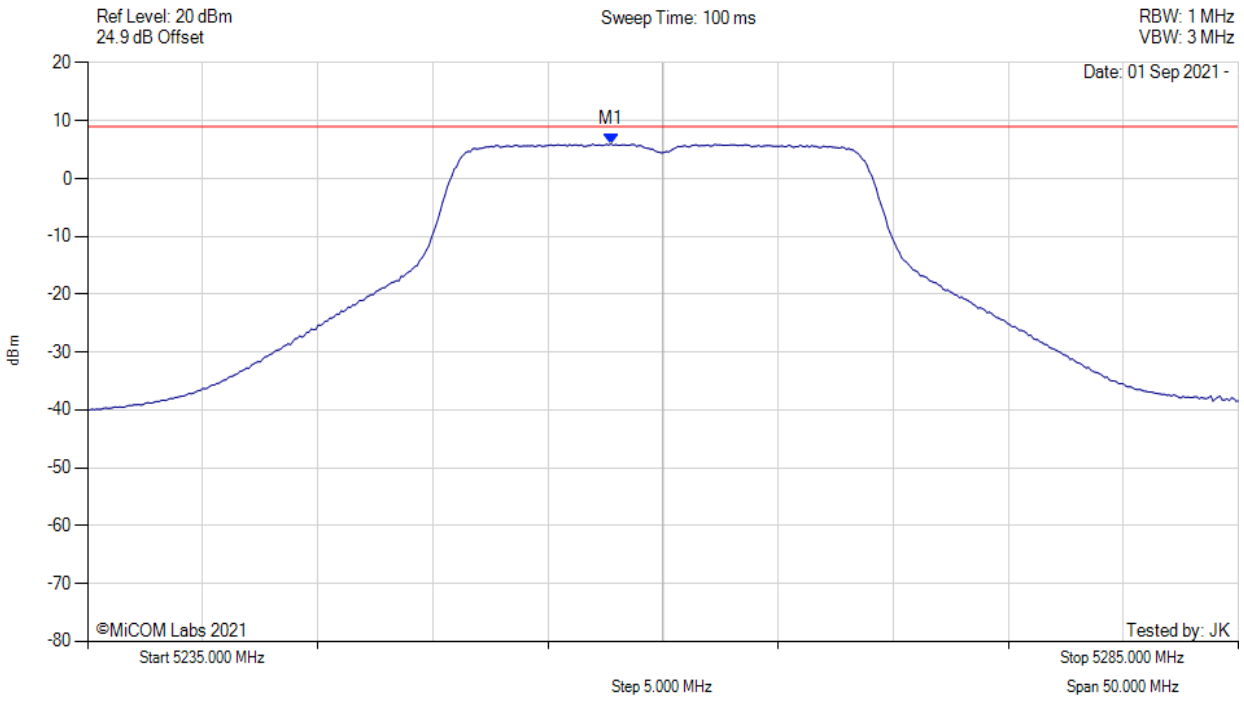


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5257.700 MHz : -8.744 dBm M1 + DCCF : 5257.700 MHz : -7.753 dBm Duty Cycle Correction Factor : +0.97 dB	Limit: ≤ 9.0 dBm Margin: -16.8 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5260.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc

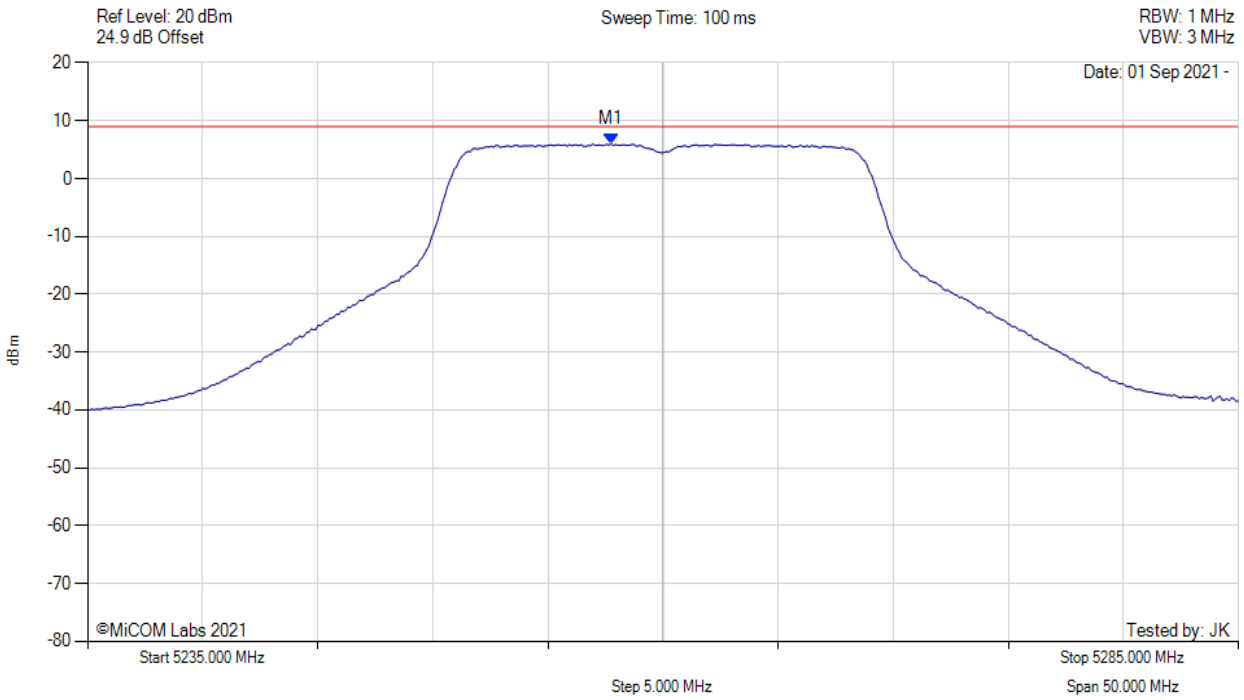


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5257.745 MHz : 5.992 dBm	Limit: ≤ 9.000 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5260.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc

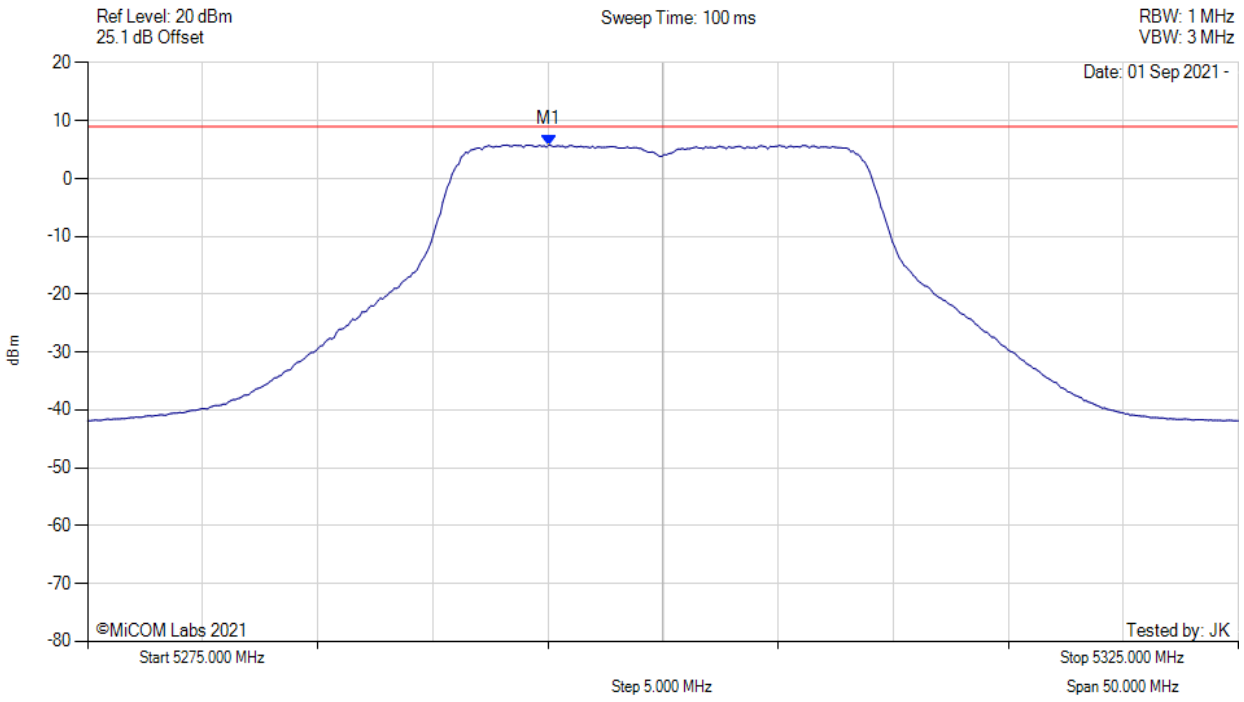


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5257.700 MHz : 5.992 dBm M1 + DCCF : 5257.700 MHz : 6.151 dBm Duty Cycle Correction Factor : +0.18 dB	Limit: ≤ 9.0 dBm Margin: -2.8 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5300.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc

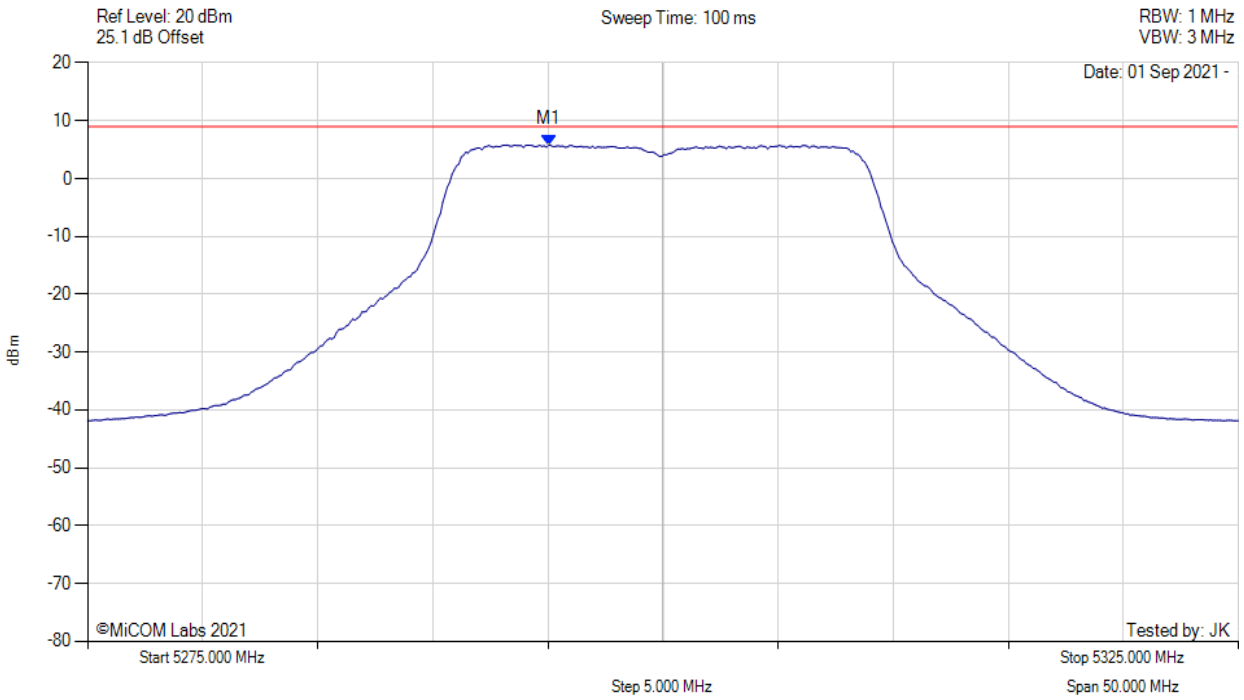


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5295.040 MHz : 5.822 dBm	Limit: ≤ 9.000 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5300.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc

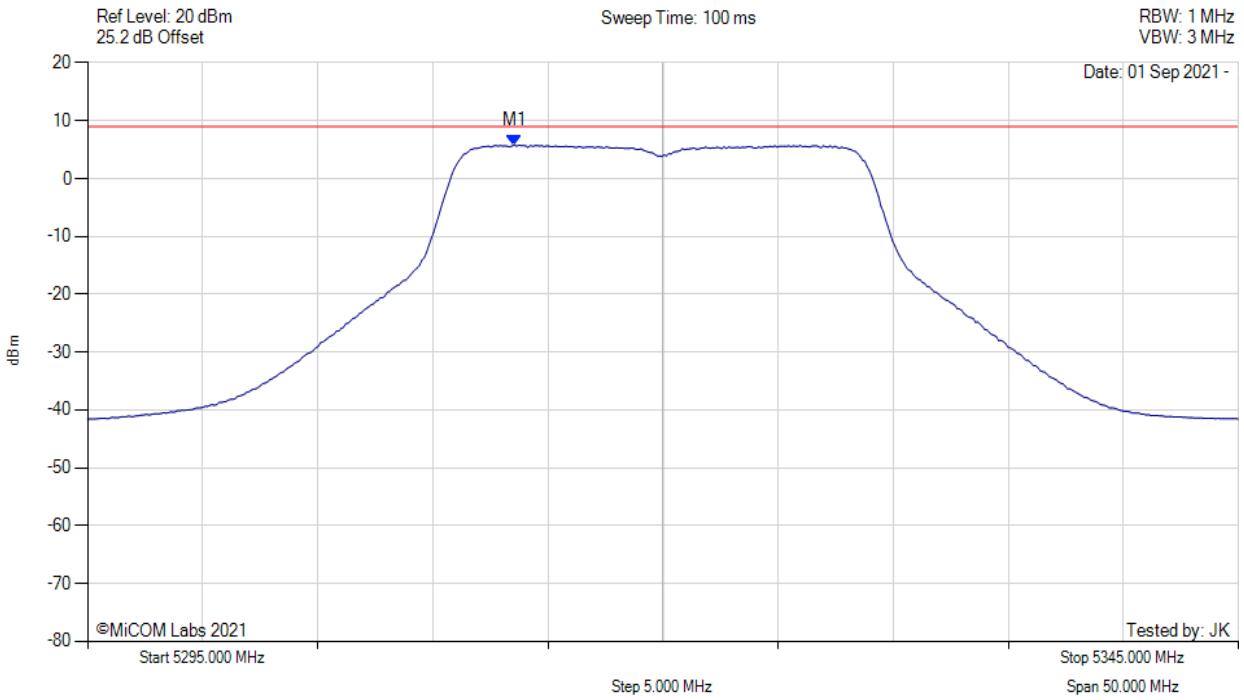


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5295.000 MHz : 5.822 dBm M1 + DCCF : 5295.000 MHz : 5.981 dBm Duty Cycle Correction Factor : +0.18 dB	Limit: ≤ 9.0 dBm Margin: -3.0 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5320.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc

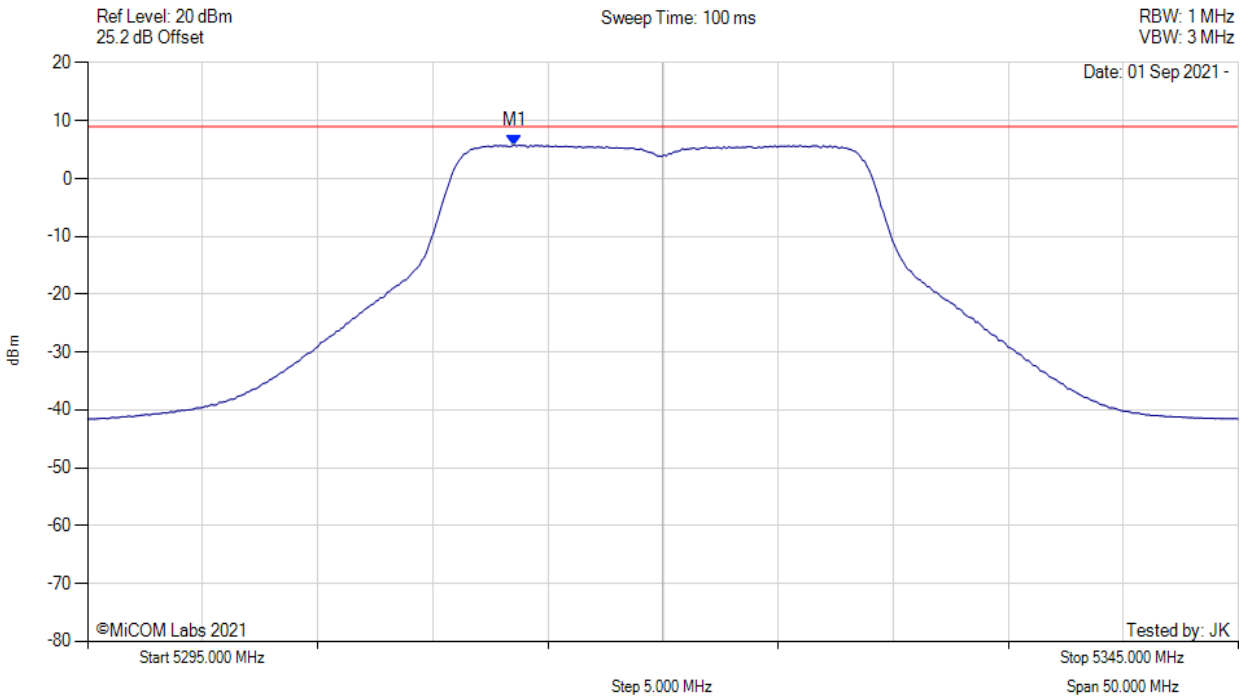


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5313.537 MHz : 5.808 dBm	Limit: ≤ 9.000 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5320.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc

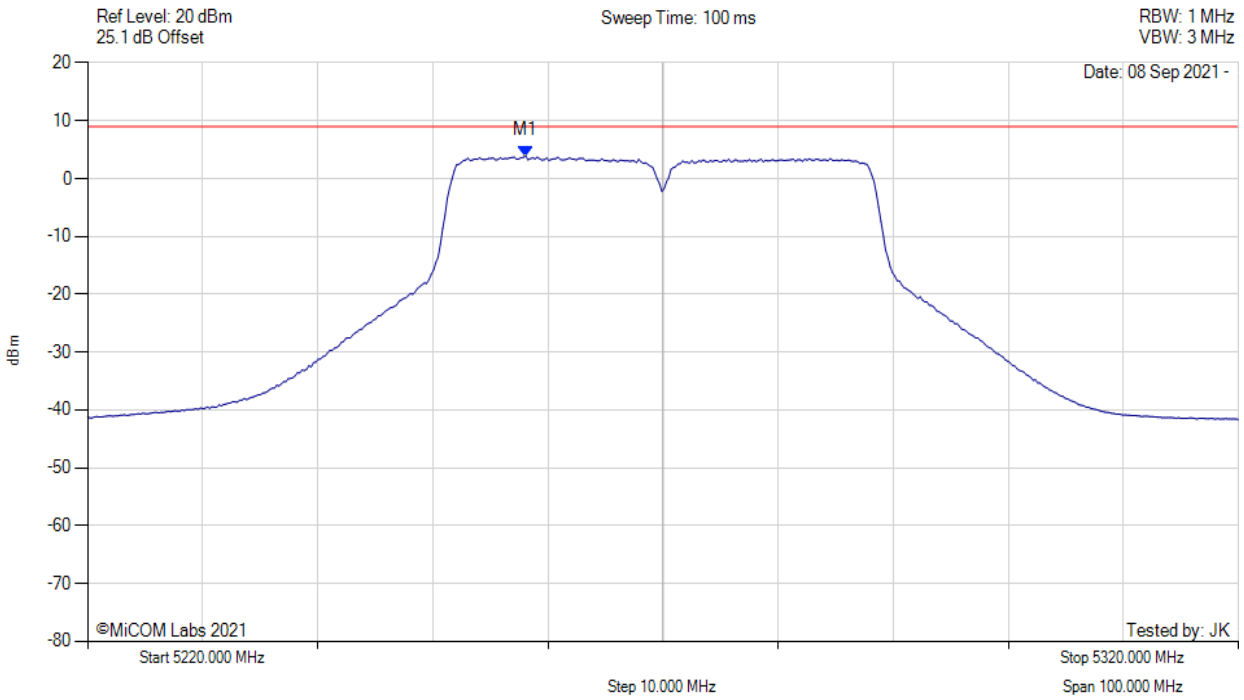


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5313.500 MHz : 5.808 dBm M1 + DCCF : 5313.500 MHz : 5.967 dBm Duty Cycle Correction Factor : +0.18 dB	Limit: ≤ 9.0 dBm Margin: -3.0 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5270.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc

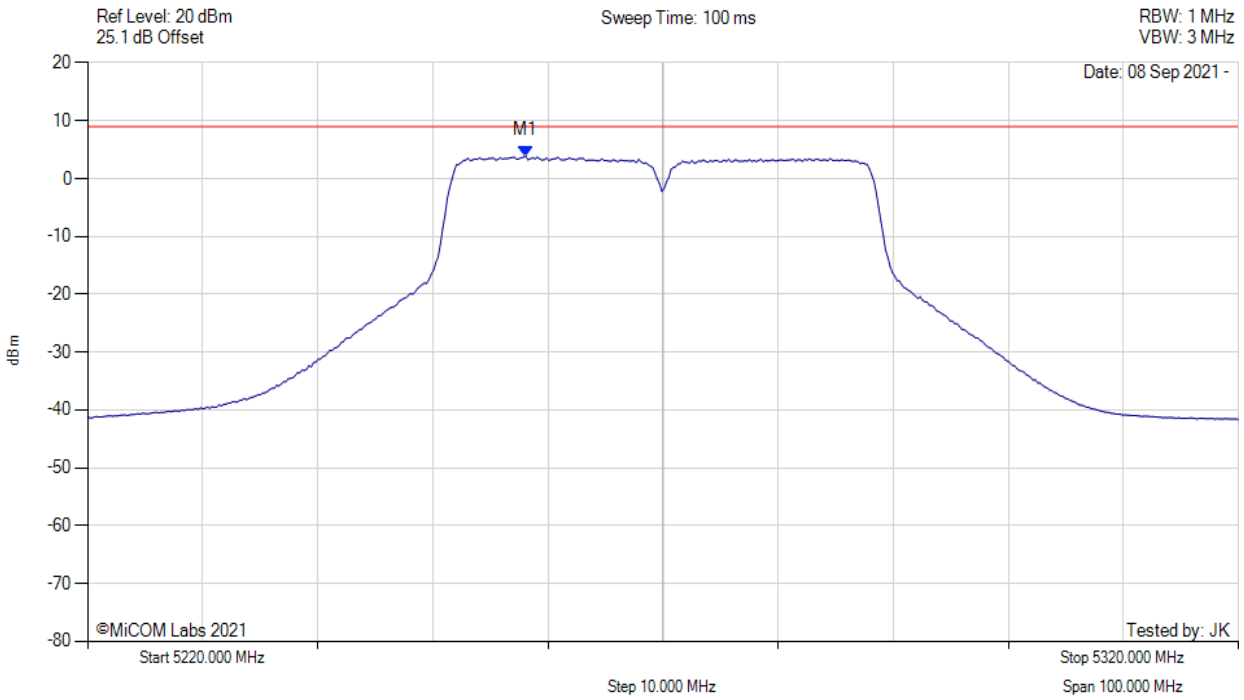


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5258.076 MHz : 3.901 dBm	Limit: ≤ 9.000 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5270.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc

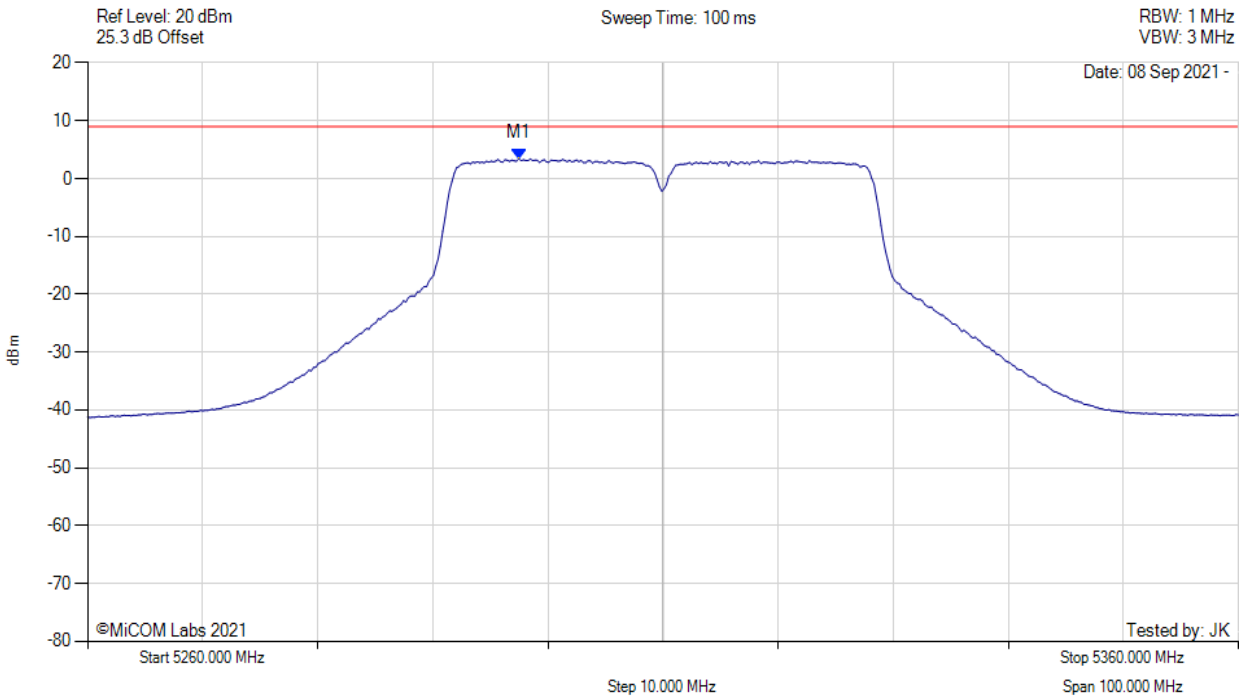


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5258.100 MHz : 3.901 dBm M1 + DCCF : 5258.100 MHz : 4.060 dBm Duty Cycle Correction Factor : +0.18 dB	Limit: ≤ 9.0 dBm Margin: -4.9 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5310.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc

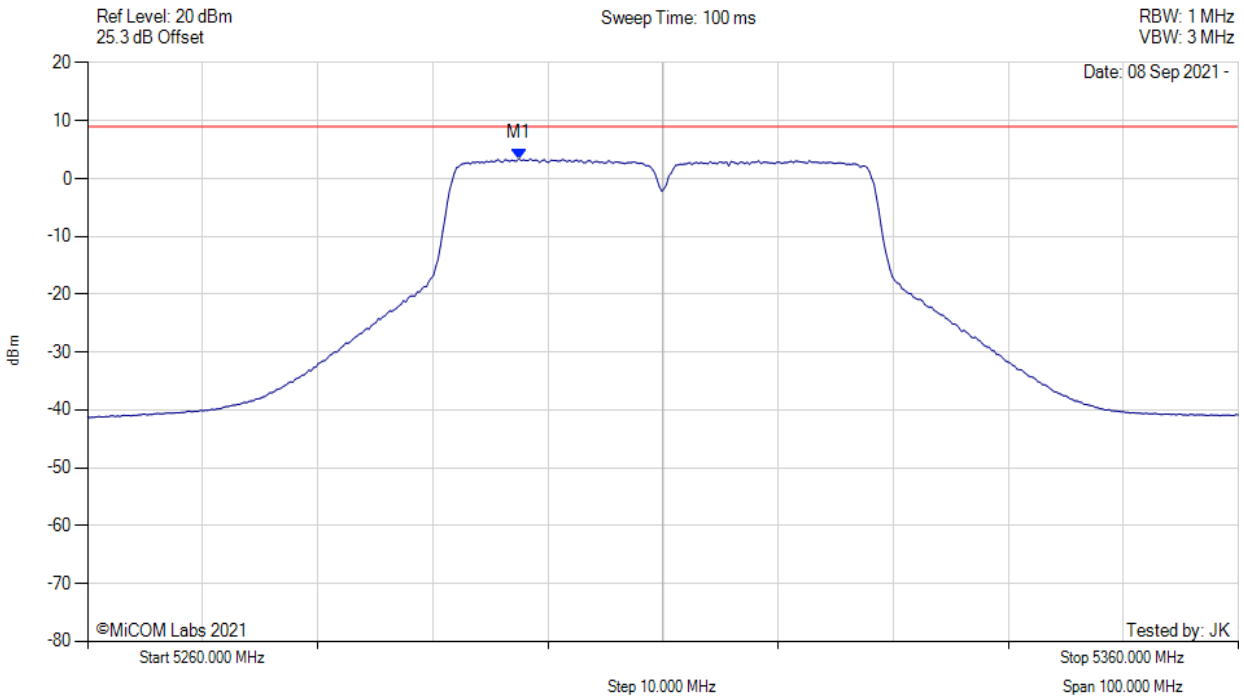


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5297.475 MHz : 3.439 dBm	Limit: ≤ 9.000 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5310.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc

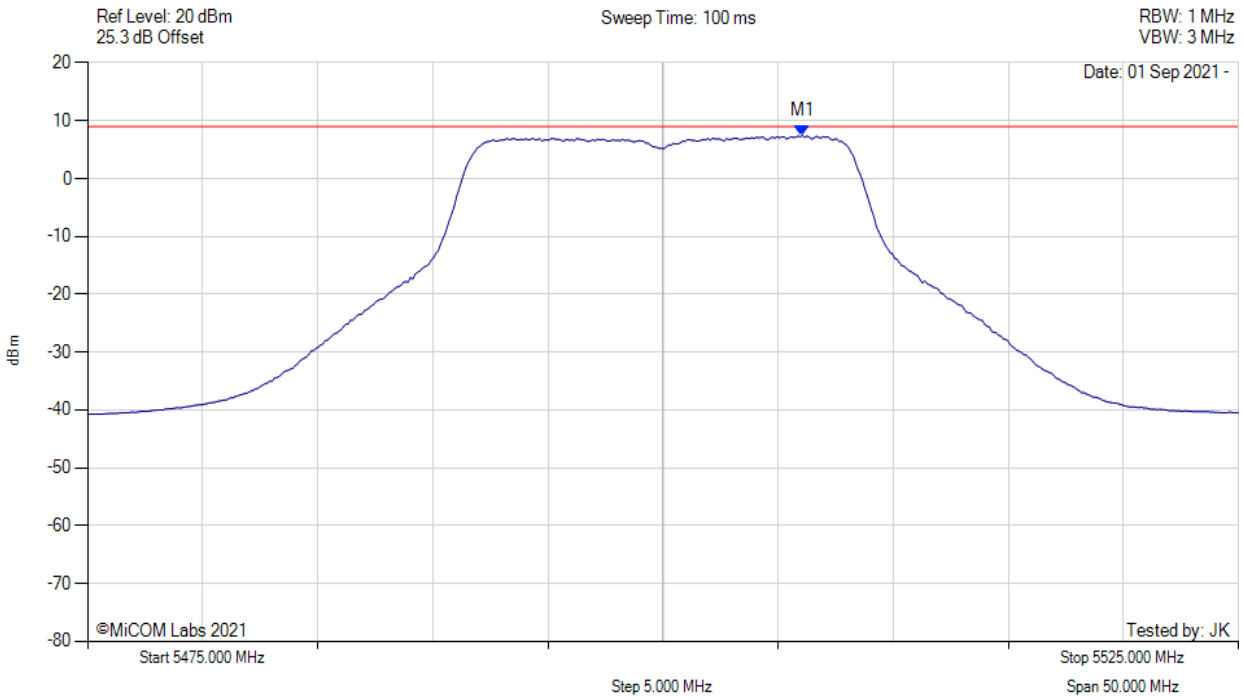


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5297.500 MHz : 3.439 dBm M1 + DCCF : 5297.500 MHz : 3.921 dBm Duty Cycle Correction Factor : +0.18 dB	Limit: ≤ 9.0 dBm Margin: -5.1 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5500.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc

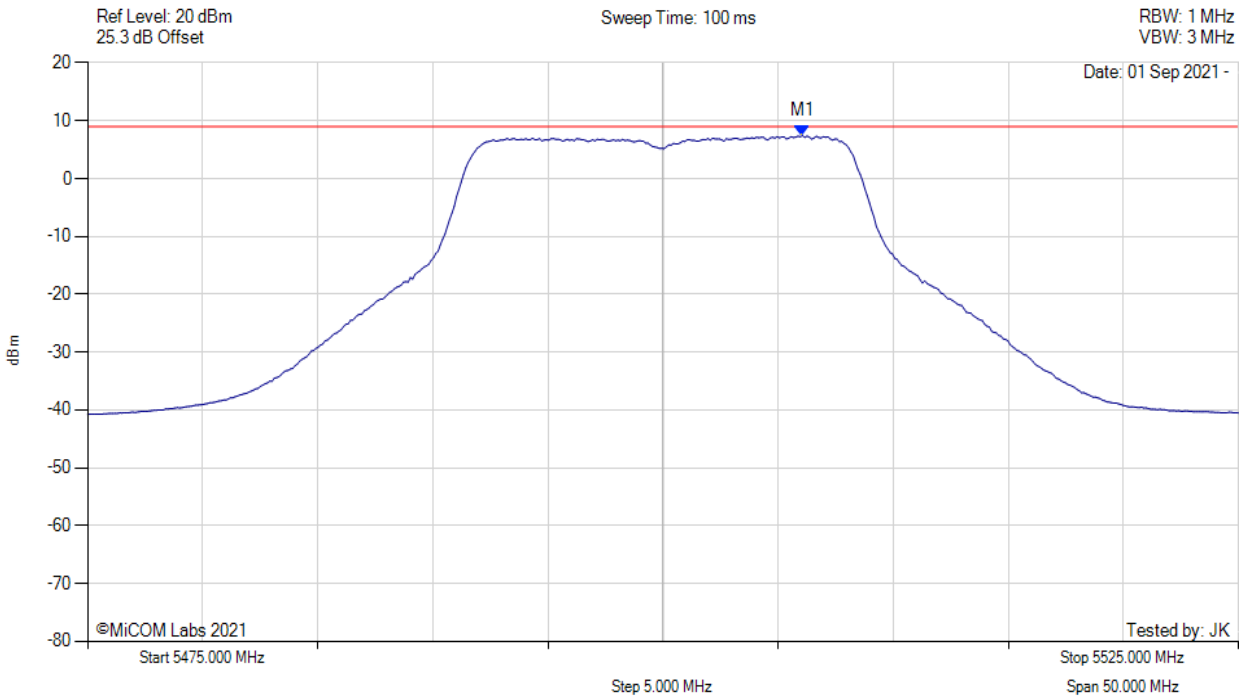


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5506.062 MHz : 7.429 dBm	Limit: ≤ 9.000 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5500.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc

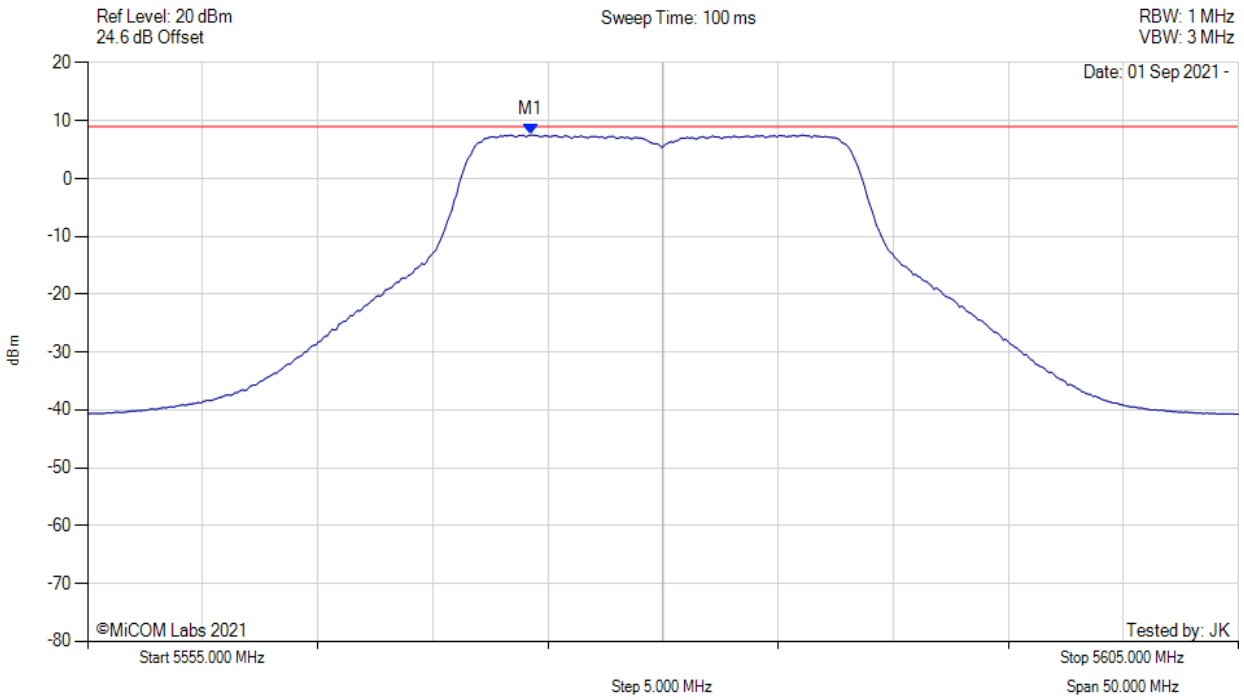


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5506.100 MHz : 7.429 dBm M1 + DCCF : 5506.100 MHz : 7.539 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 9.0 dBm Margin: -1.5 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5580.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc

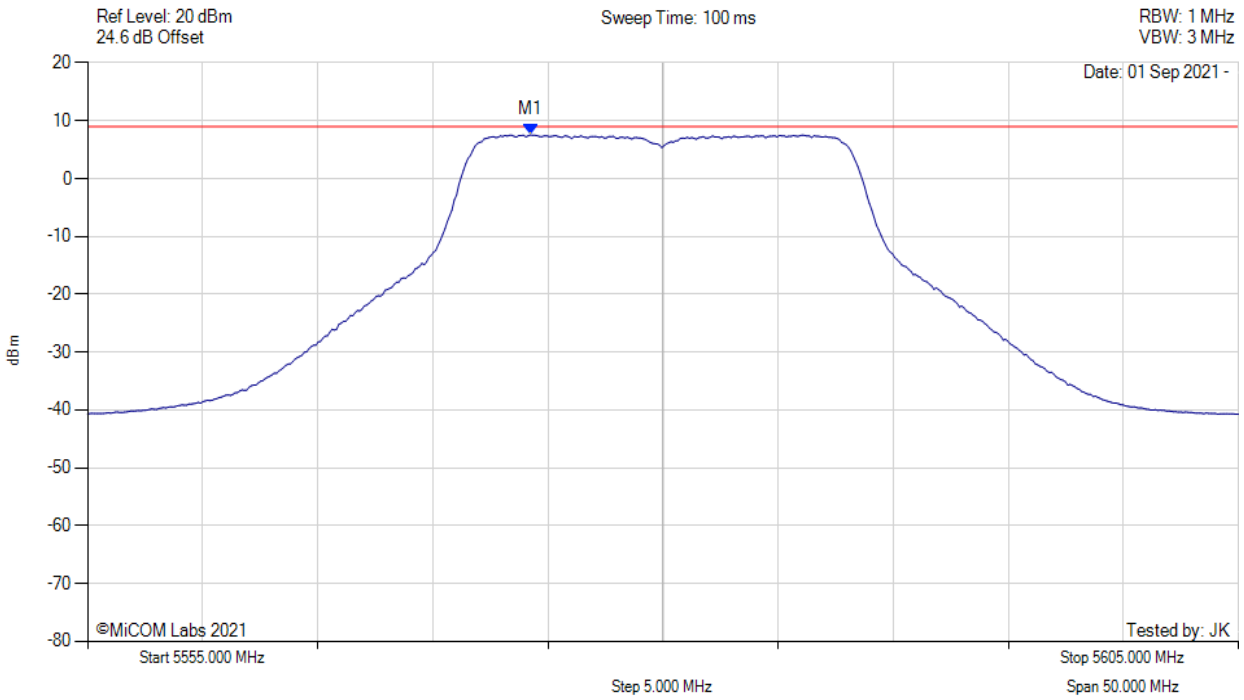


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5574.238 MHz : 7.562 dBm	Limit: ≤ 9.000 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5580.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc

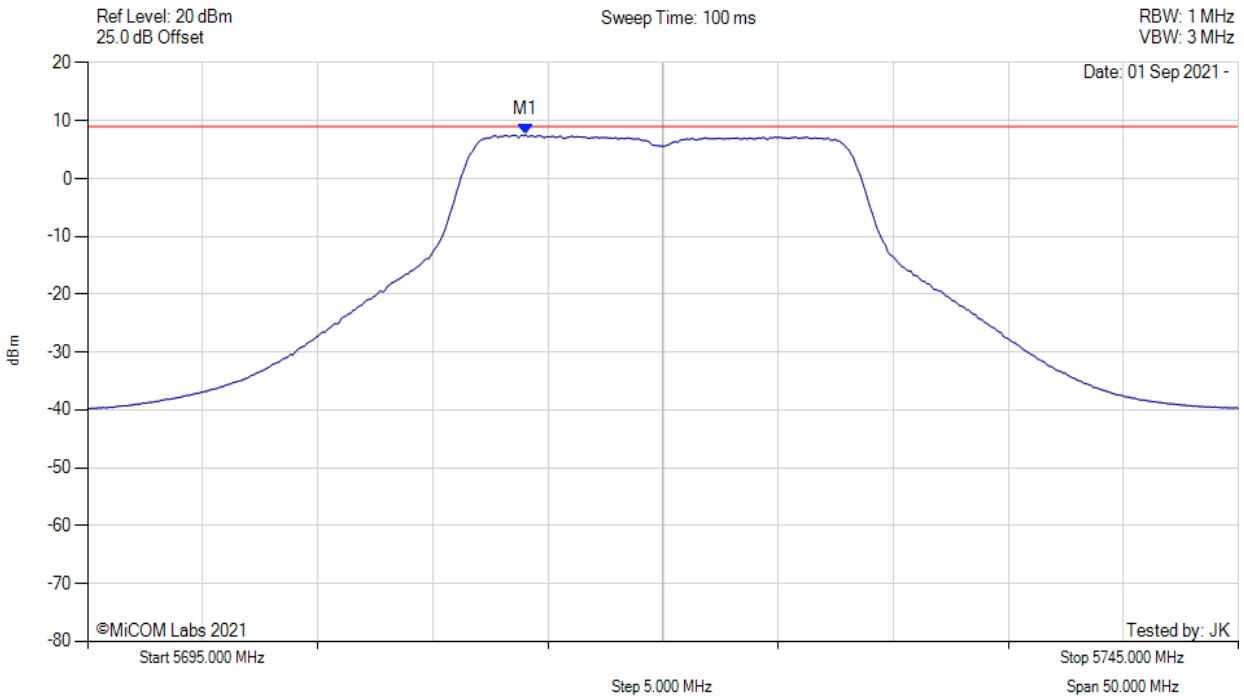


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5574.200 MHz : 7.562 dBm M1 + DCCF : 5574.200 MHz : 7.672 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 9.0 dBm Margin: -1.3 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5720.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc

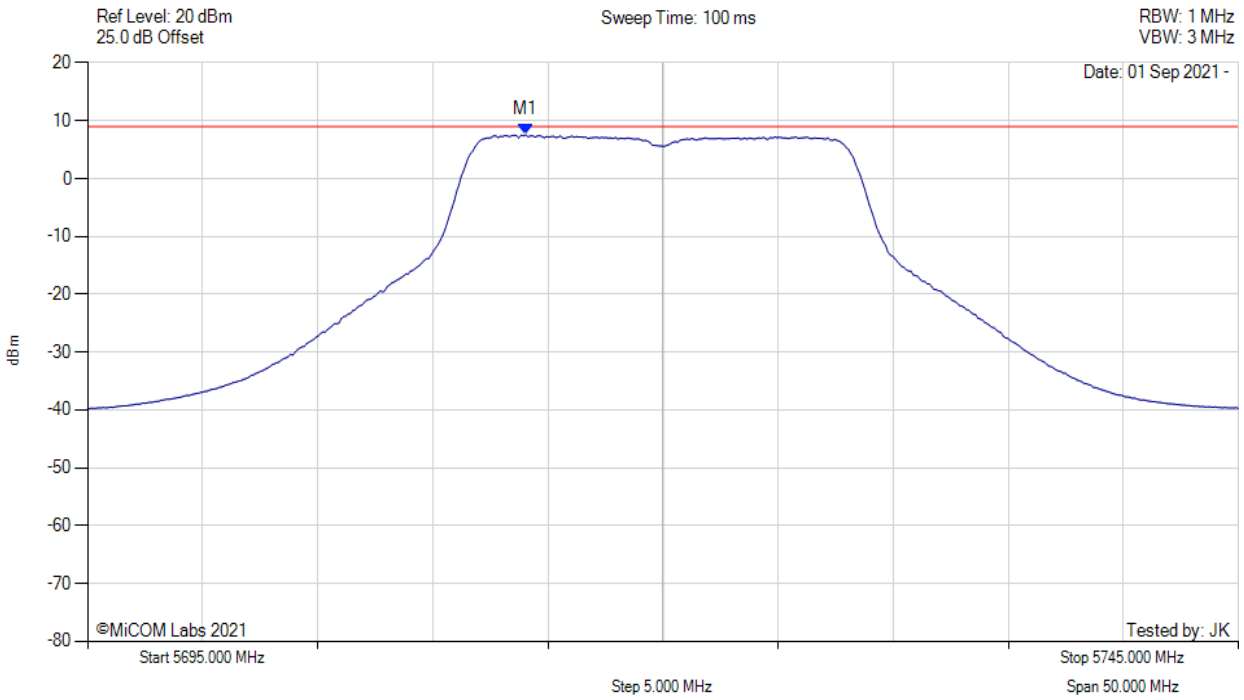


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5714.038 MHz : 7.561 dBm	Limit: ≤ 9.000 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5720.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc

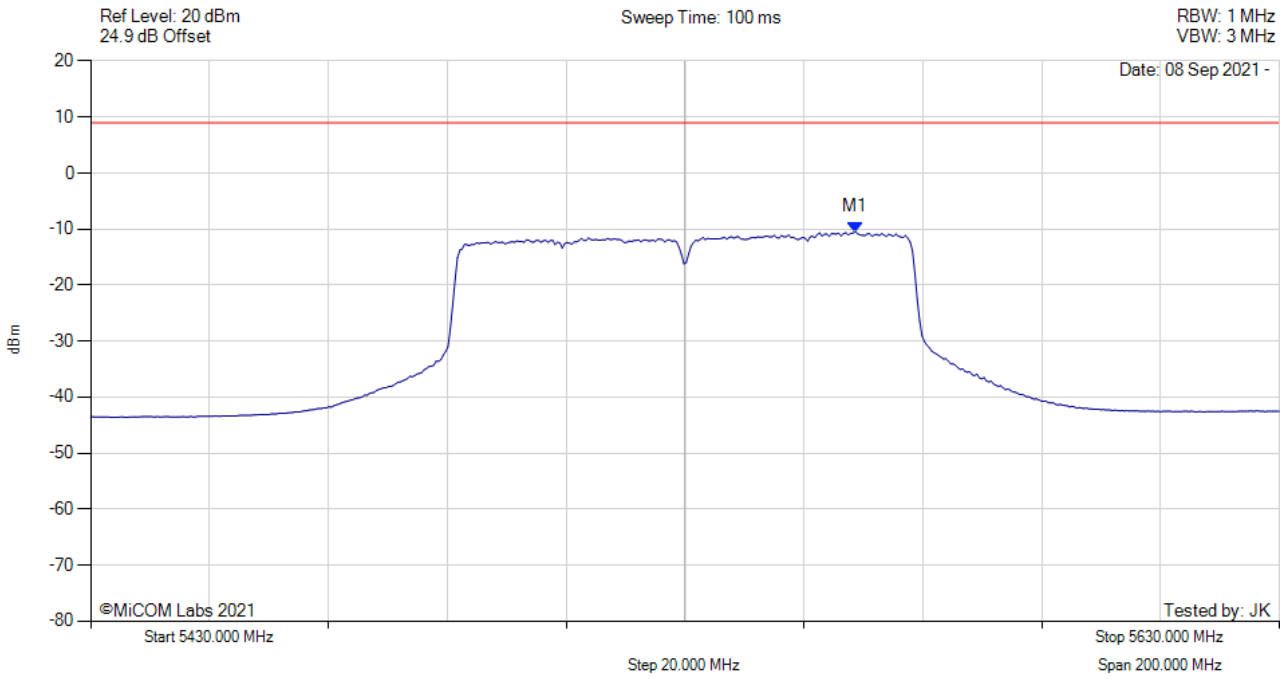


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5714.000 MHz : 7.561 dBm M1 + DCCF : 5714.000 MHz : 7.671 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 9.0 dBm Margin: -1.3 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5530.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc

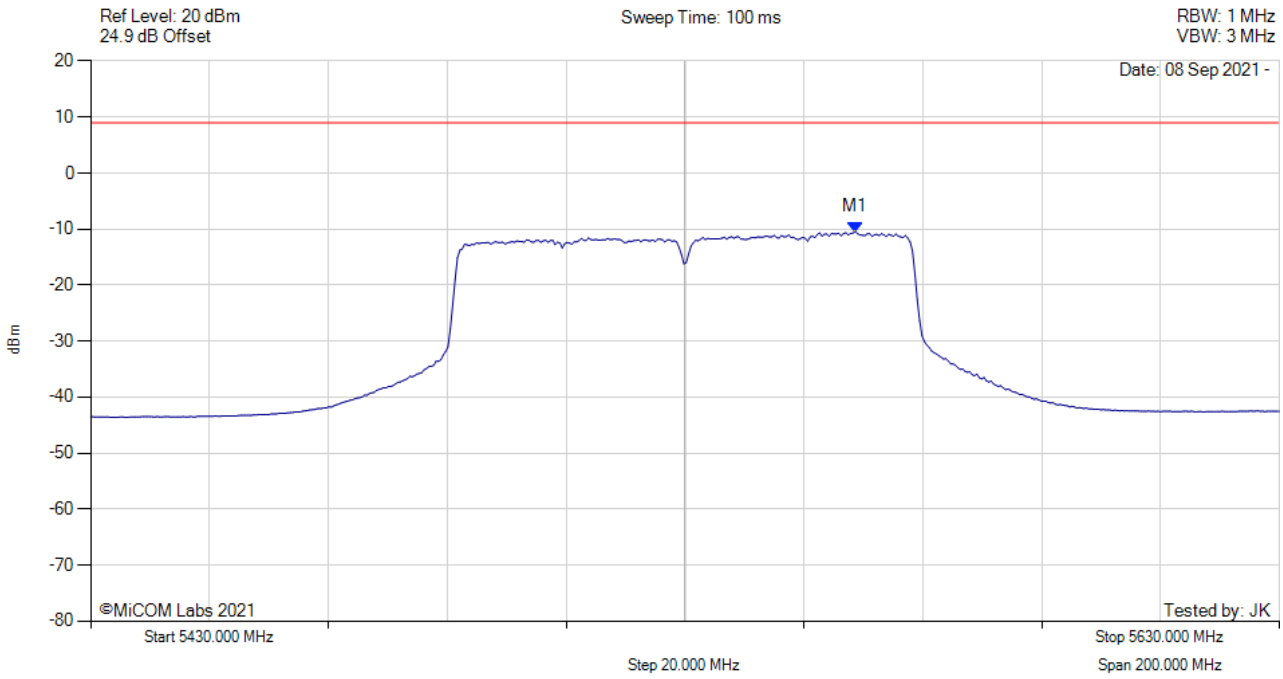


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5558.657 MHz : -10.455 dBm	Limit: ≤ 9.000 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5530.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc

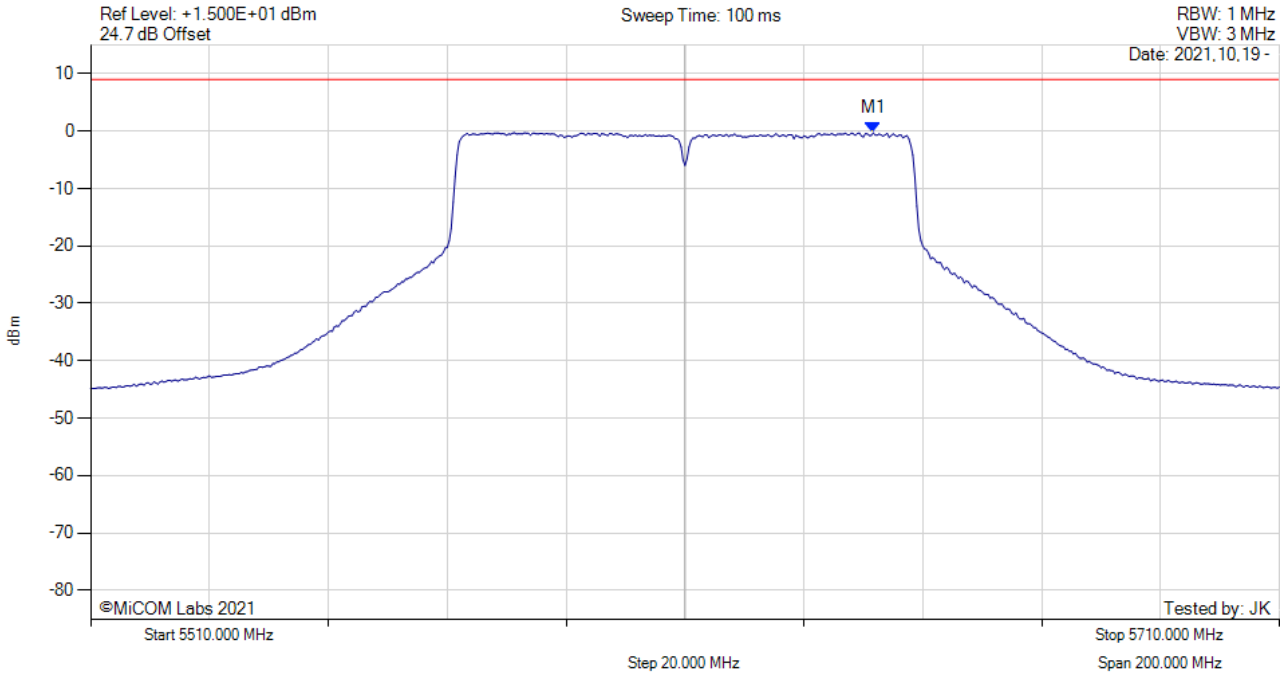


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5558.700 MHz : -10.455 dBm M1 + DCCF : 5558.700 MHz : -9.486 dBm Duty Cycle Correction Factor : +0.97 dB	Limit: ≤ 9.0 dBm Margin: -18.5 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5610.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc

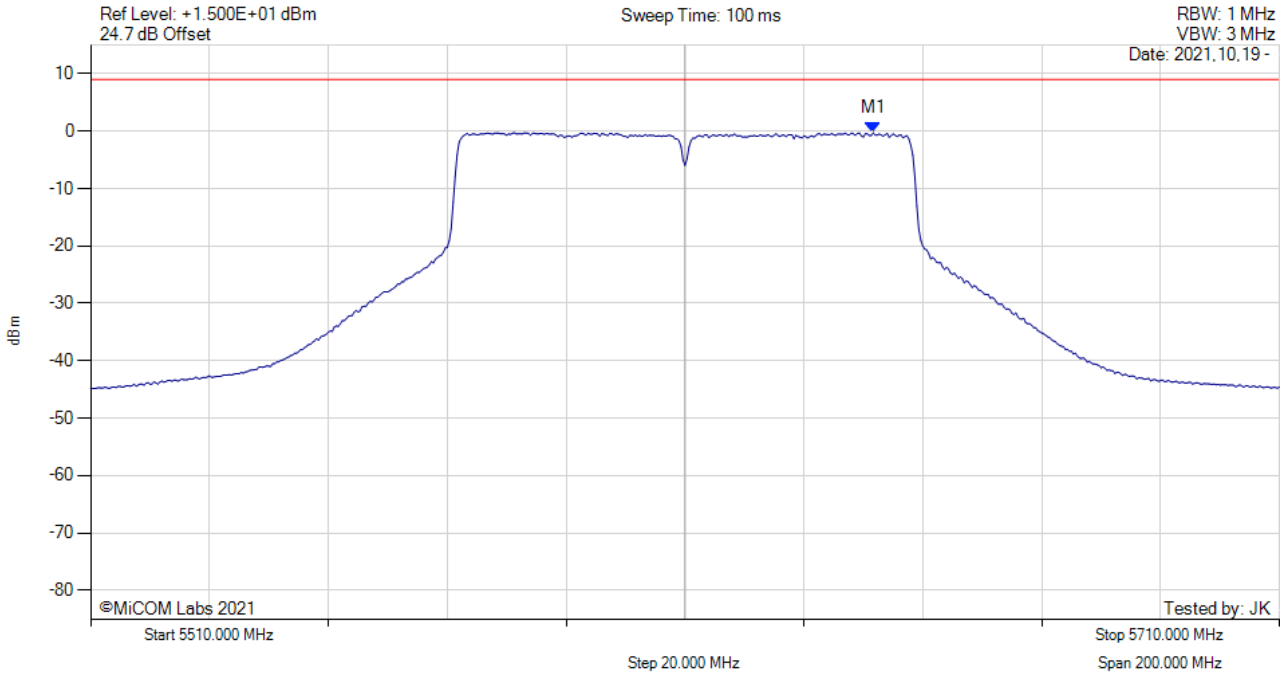


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5641.700 MHz : -0.280 dBm	Limit: ≤ 9.000 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5610.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc

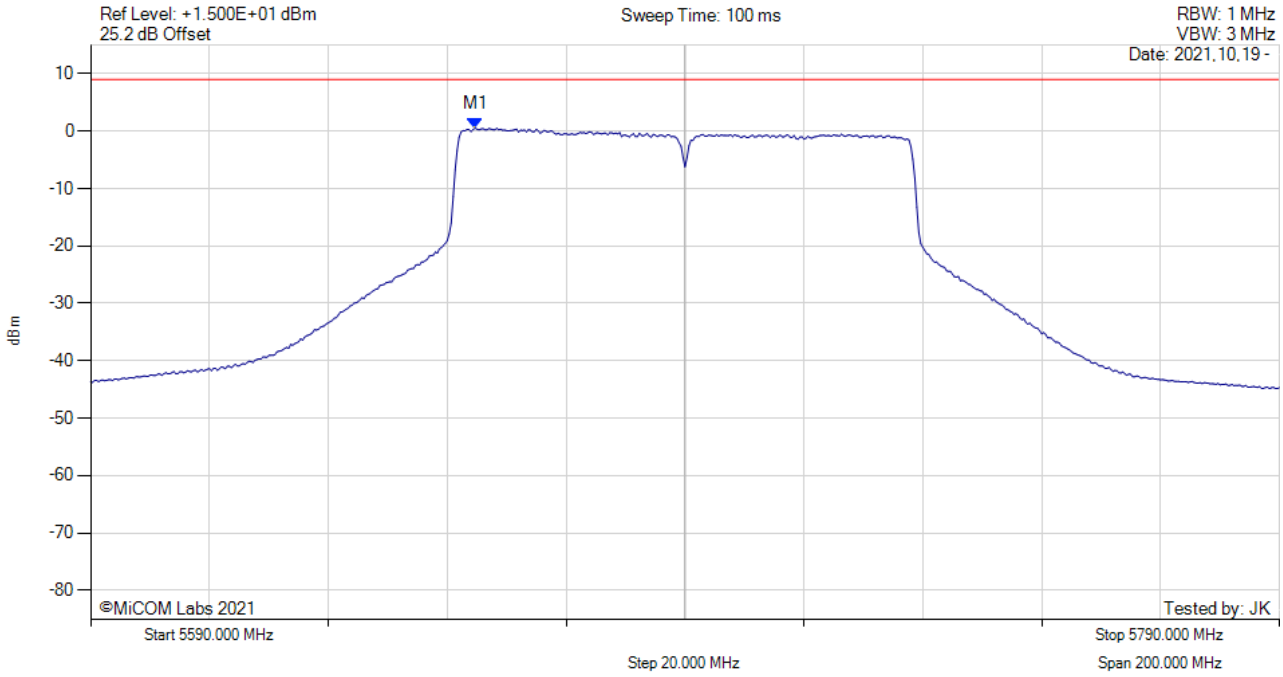


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5641.700 MHz : -0.280 dBm M1 + DCCF : 5641.700 MHz : 0.689 dBm Duty Cycle Correction Factor : +0.97 dB	Limit: ≤ 9.0 dBm Margin: -8.3 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5690.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc

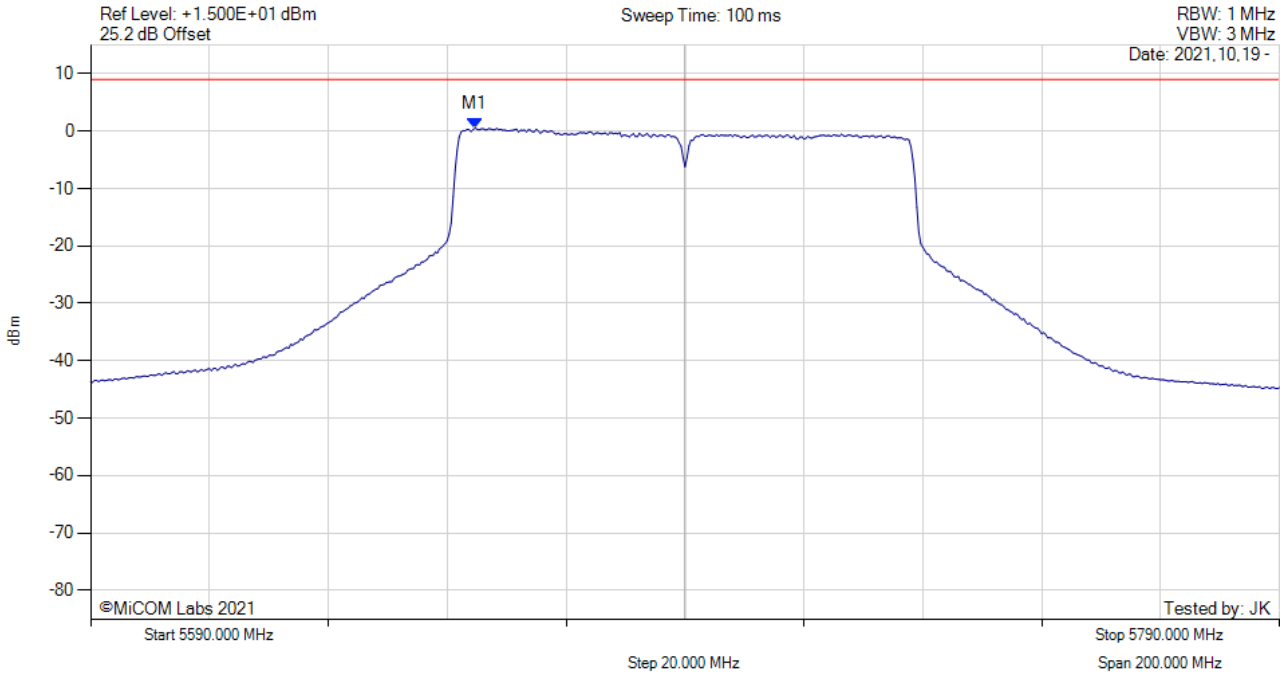


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5654.700 MHz : 0.519 dBm	Limit: ≤ 9.000 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5690.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc

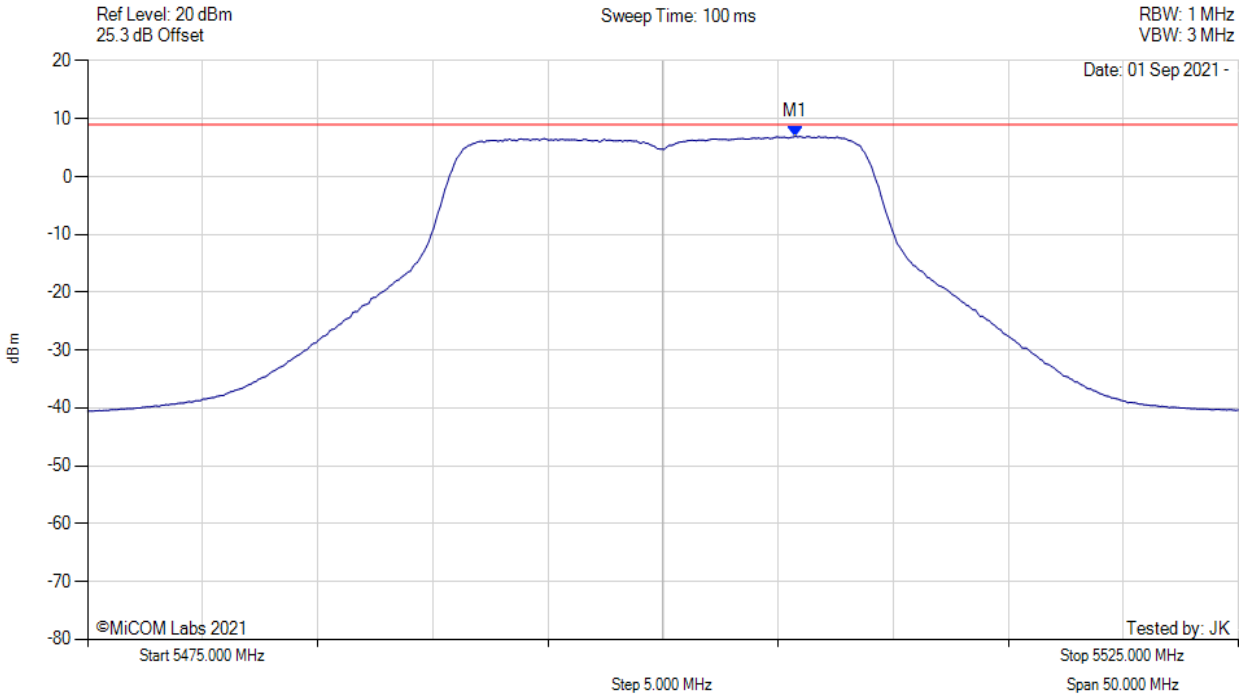


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5654.700 MHz : 0.519 dBm M1 + DCCF : 5654.700 MHz : 1.488 dBm Duty Cycle Correction Factor : +0.97 dB	Limit: ≤ 9.0 dBm Margin: -7.5 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5500.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc

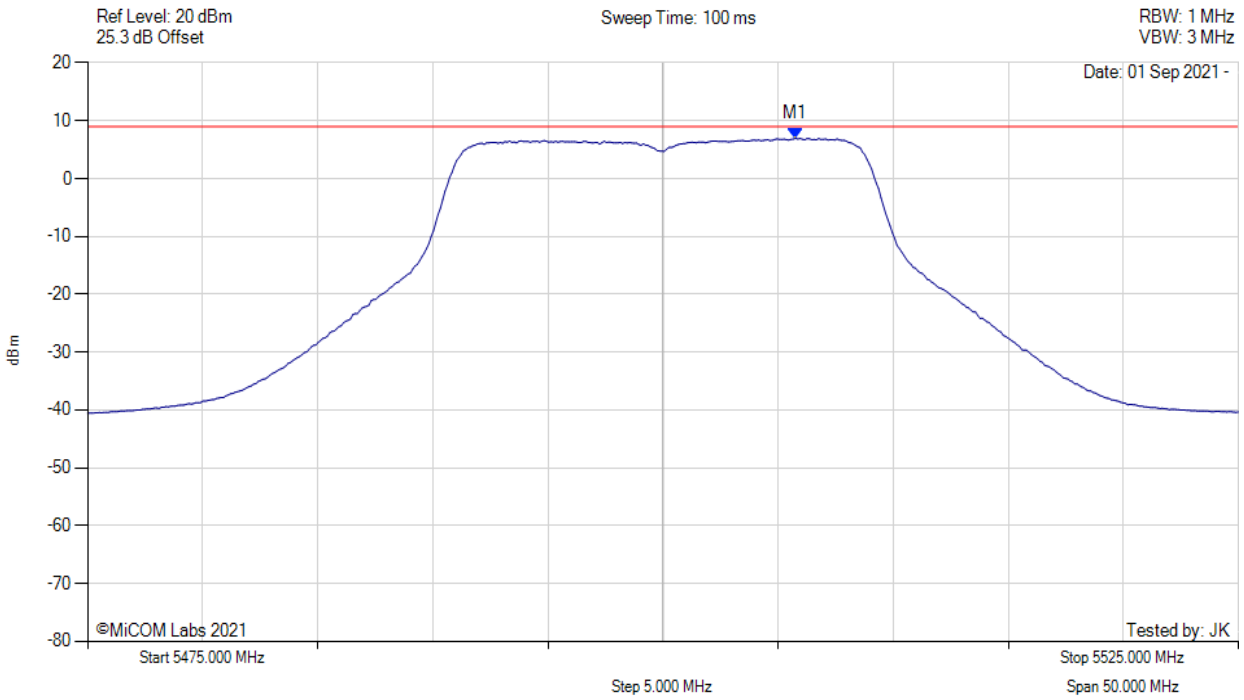


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5505.762 MHz : 6.967 dBm	Limit: ≤ 9.000 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5500.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc

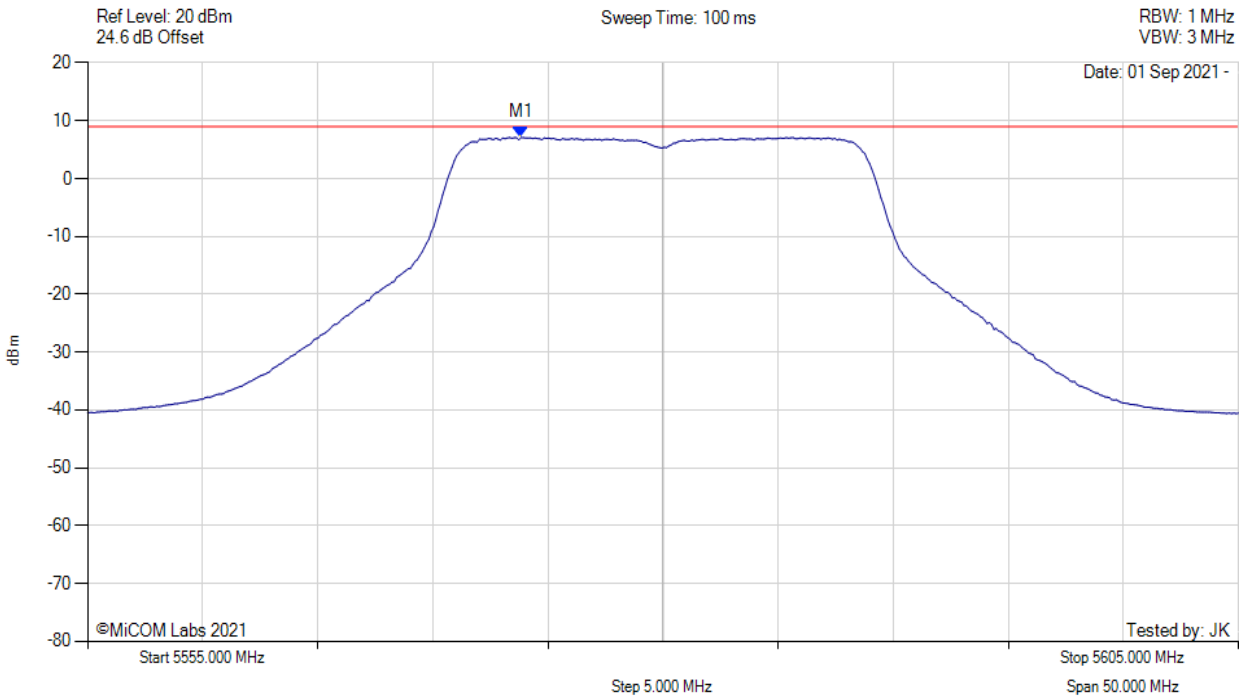


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5505.800 MHz : 6.967 dBm M1 + DCCF : 5505.800 MHz : 7.126 dBm Duty Cycle Correction Factor : +0.18 dB	Limit: ≤ 9.0 dBm Margin: -1.9 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5580.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc

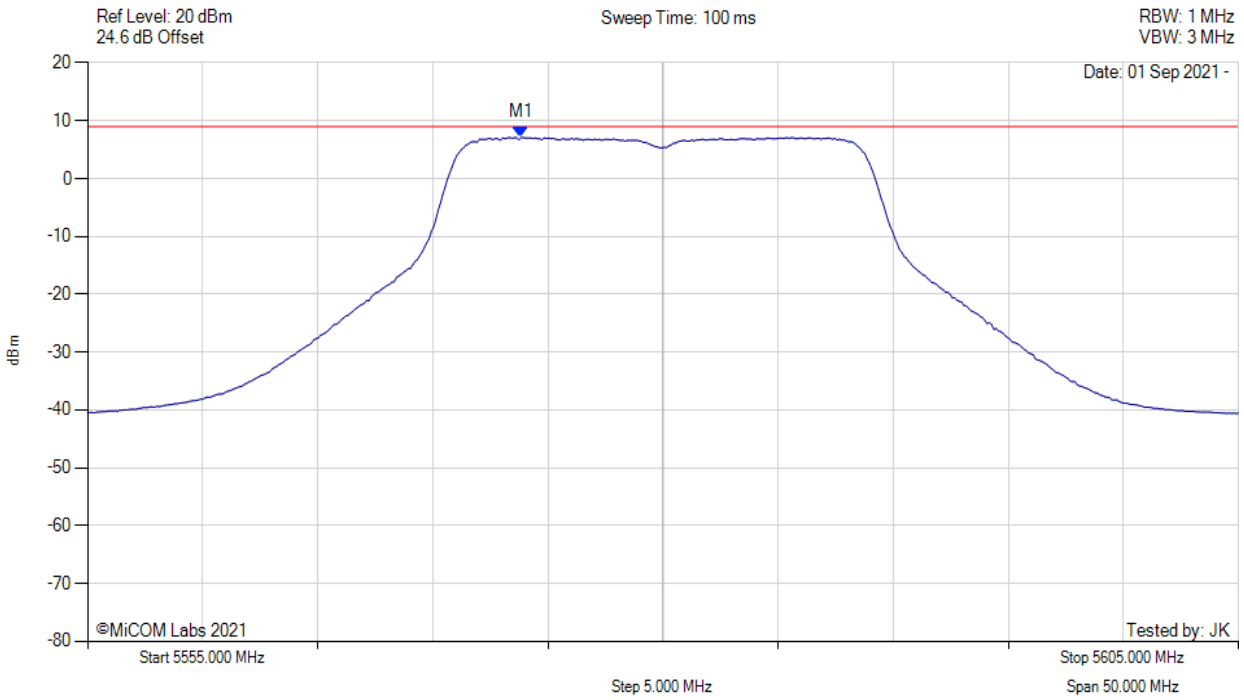


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5573.838 MHz : 7.110 dBm	Limit: ≤ 9.000 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5580.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc

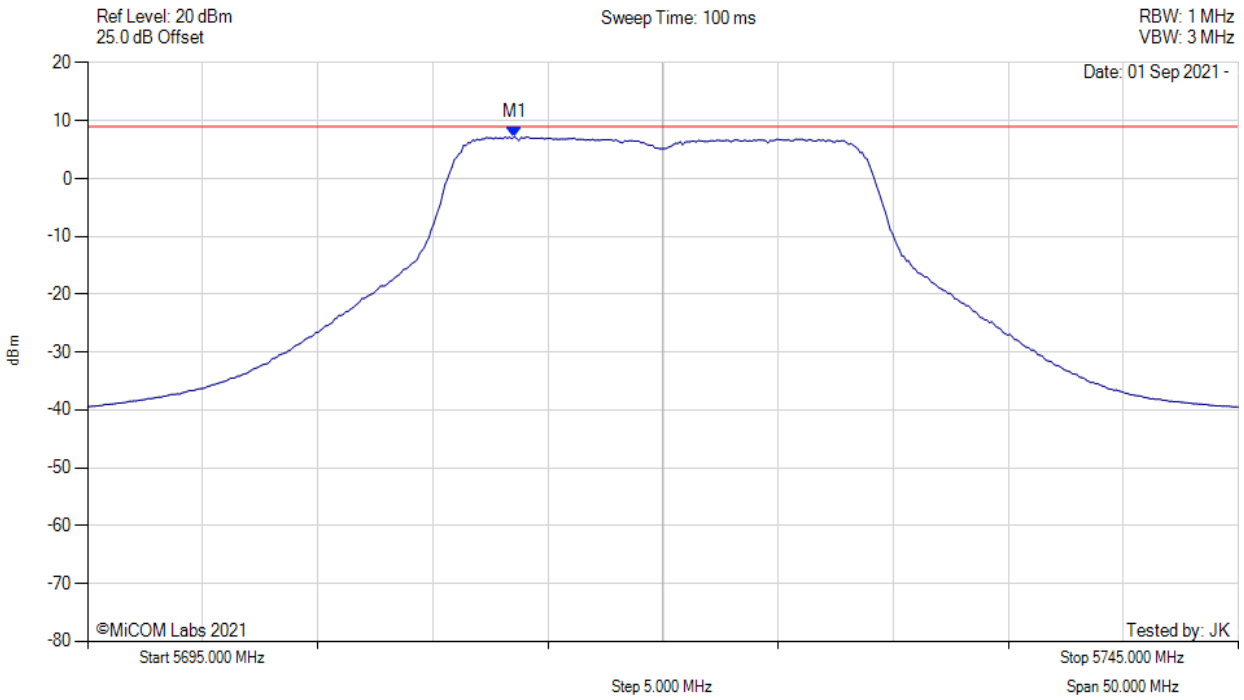


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5573.800 MHz : 7.110 dBm M1 + DCCF : 5573.800 MHz : 7.269 dBm Duty Cycle Correction Factor : +0.18 dB	Limit: ≤ 9.0 dBm Margin: -1.7 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5720.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc

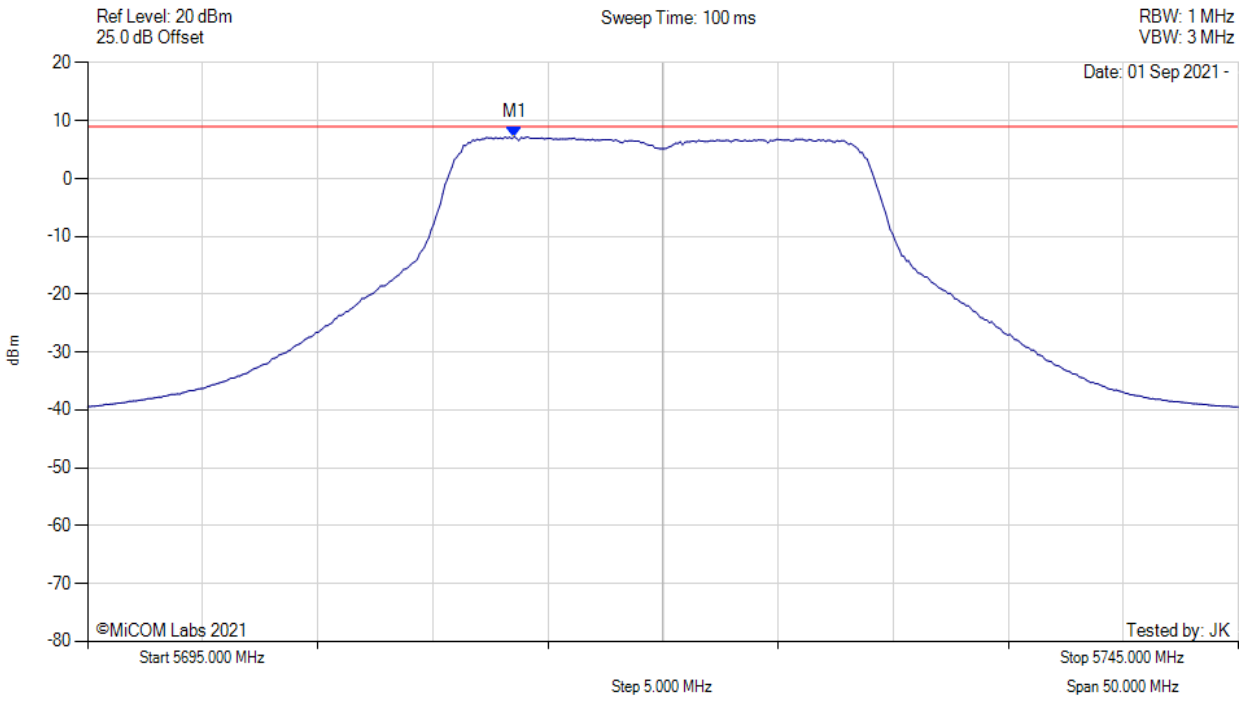


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5713.537 MHz : 7.211 dBm	Limit: ≤ 9.000 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5720.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc

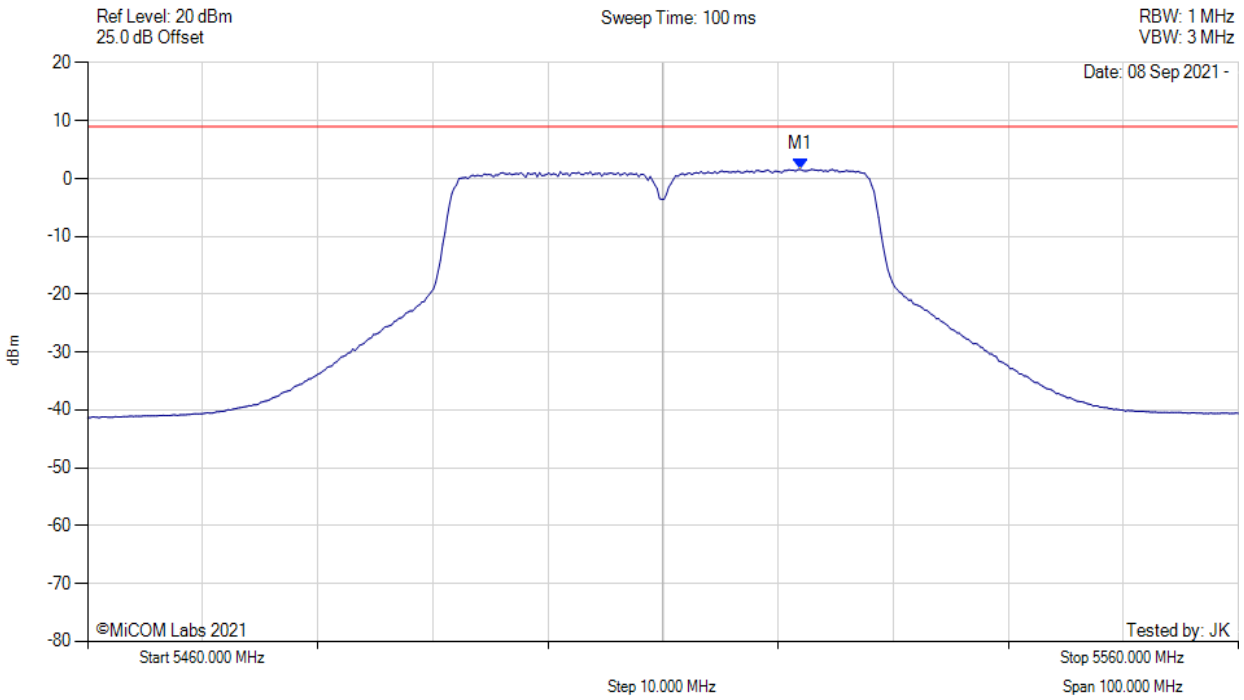


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5713.500 MHz : 7.211 dBm M1 + DCCF : 5713.500 MHz : 7.321 dBm Duty Cycle Correction Factor : +0.18 dB	Limit: ≤ 9.0 dBm Margin: -1.7 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5510.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc

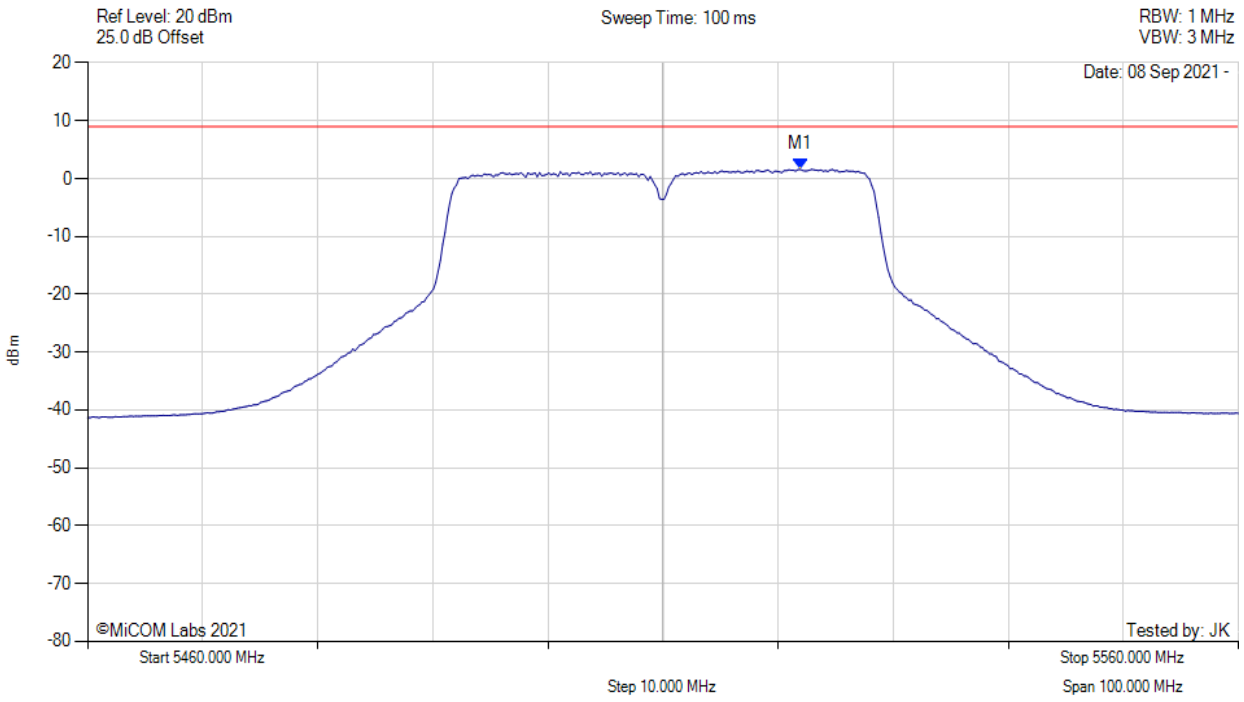


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5521.924 MHz : 1.607 dBm	Limit: ≤ 9.000 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5510.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc

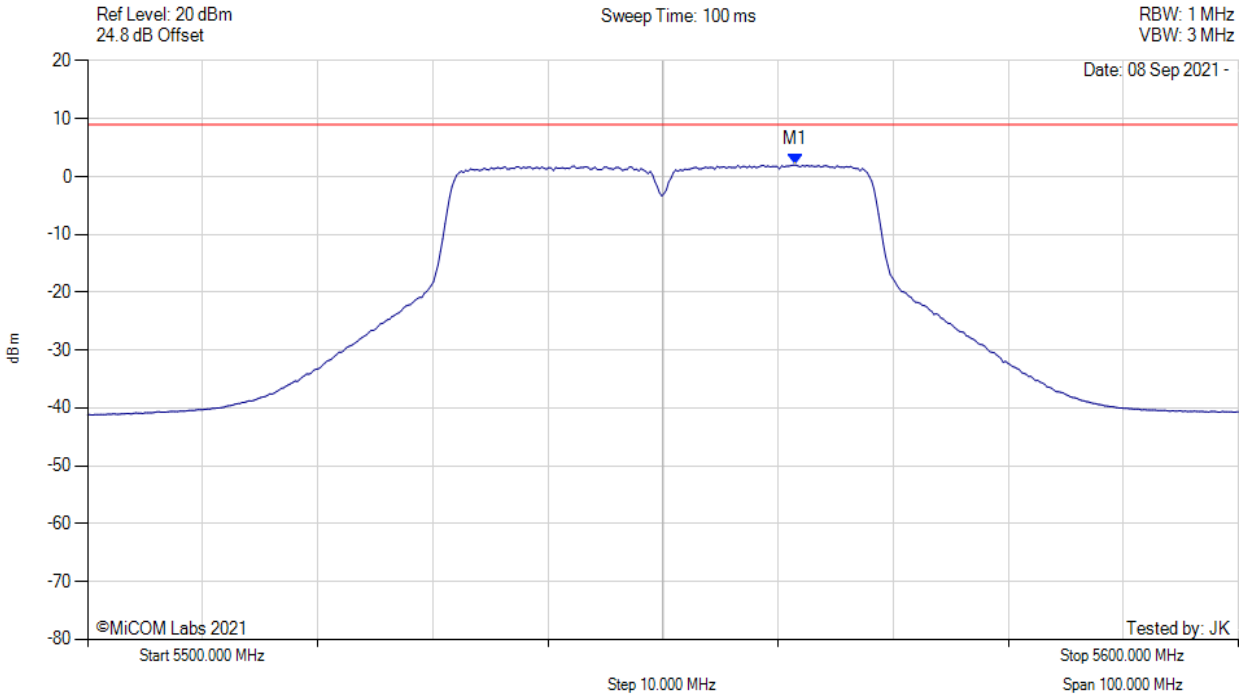


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5521.900 MHz : 1.607 dBm M1 + DCCF : 5521.900 MHz : 2.089 dBm Duty Cycle Correction Factor : +0.46 dB	Limit: ≤ 9.0 dBm Margin: -6.9 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5550.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc

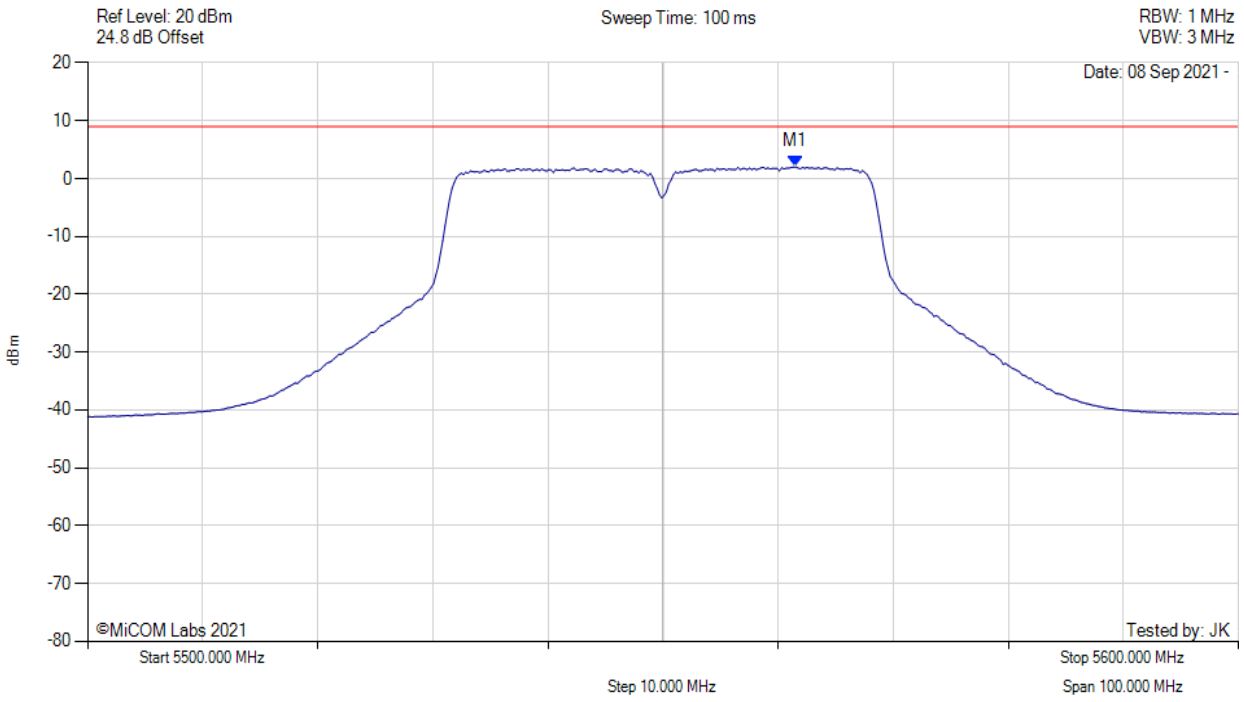


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5561.523 MHz : 2.024 dBm	Limit: ≤ 9.000 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5550.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc

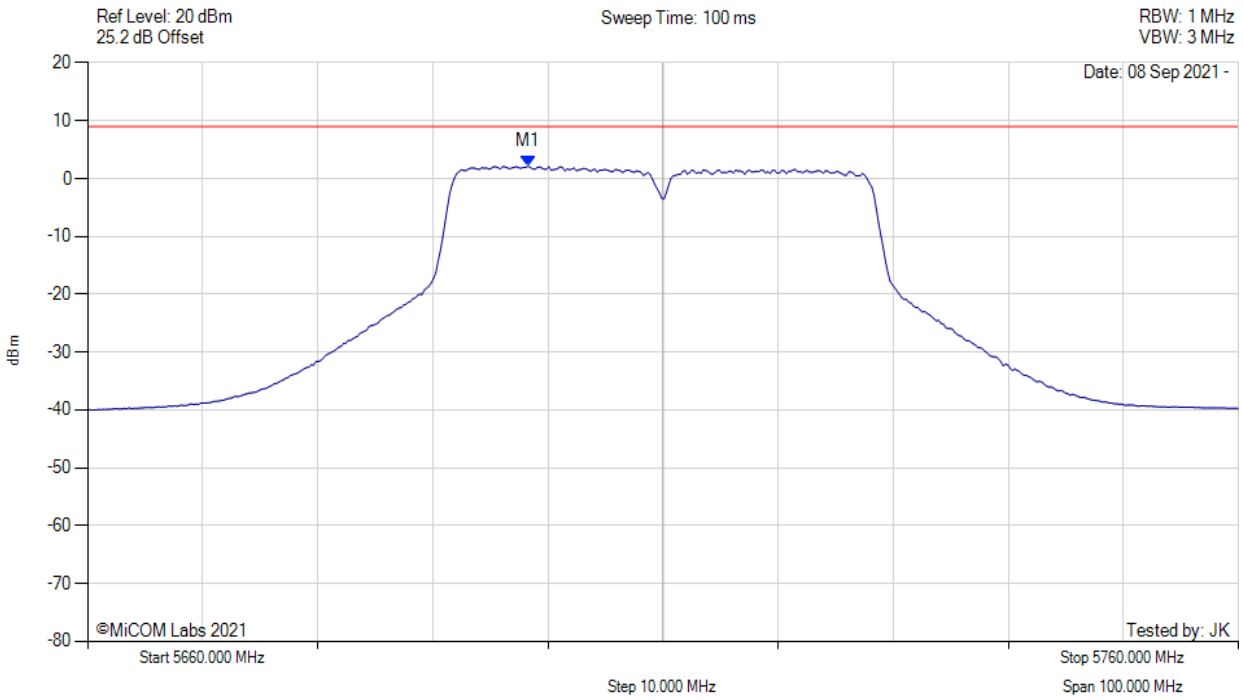


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5561.500 MHz : 2.024 dBm M1 + DCCF : 5561.500 MHz : 2.506 dBm Duty Cycle Correction Factor : +0.46 dB	Limit: ≤ 9.0 dBm Margin: -6.5 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5710.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc

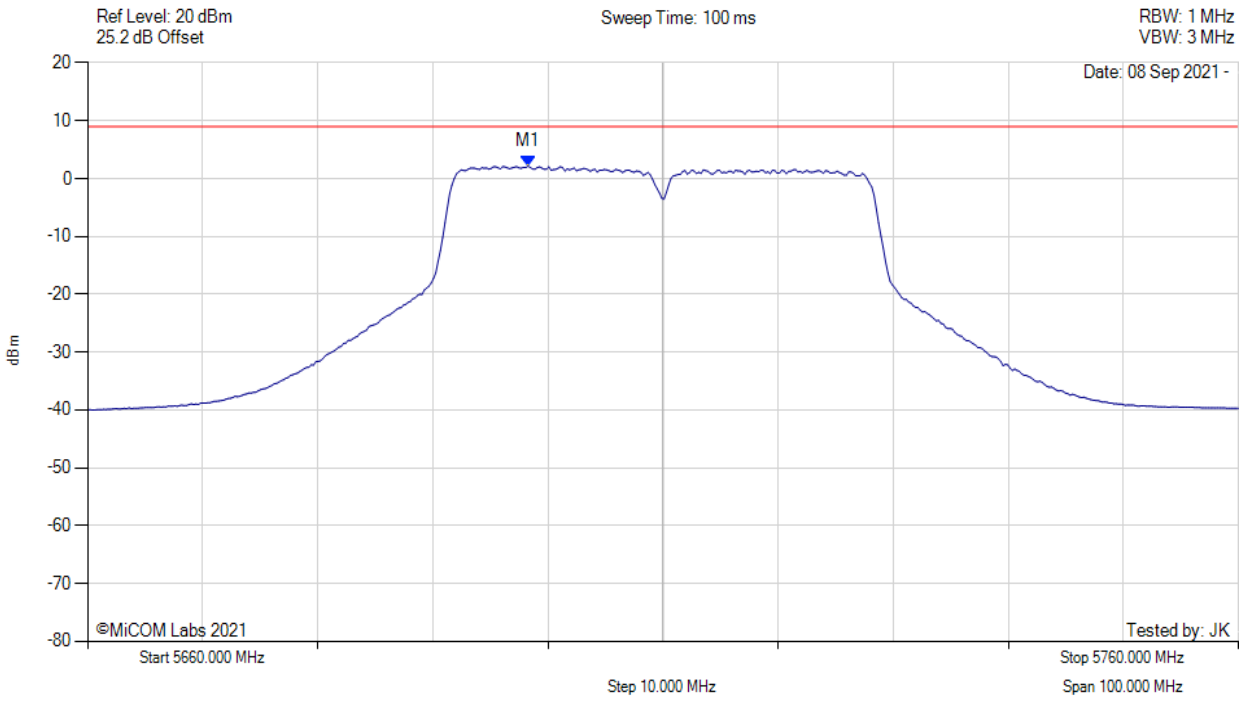


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5698.277 MHz : 2.164 dBm	Limit: ≤ 9.000 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5710.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



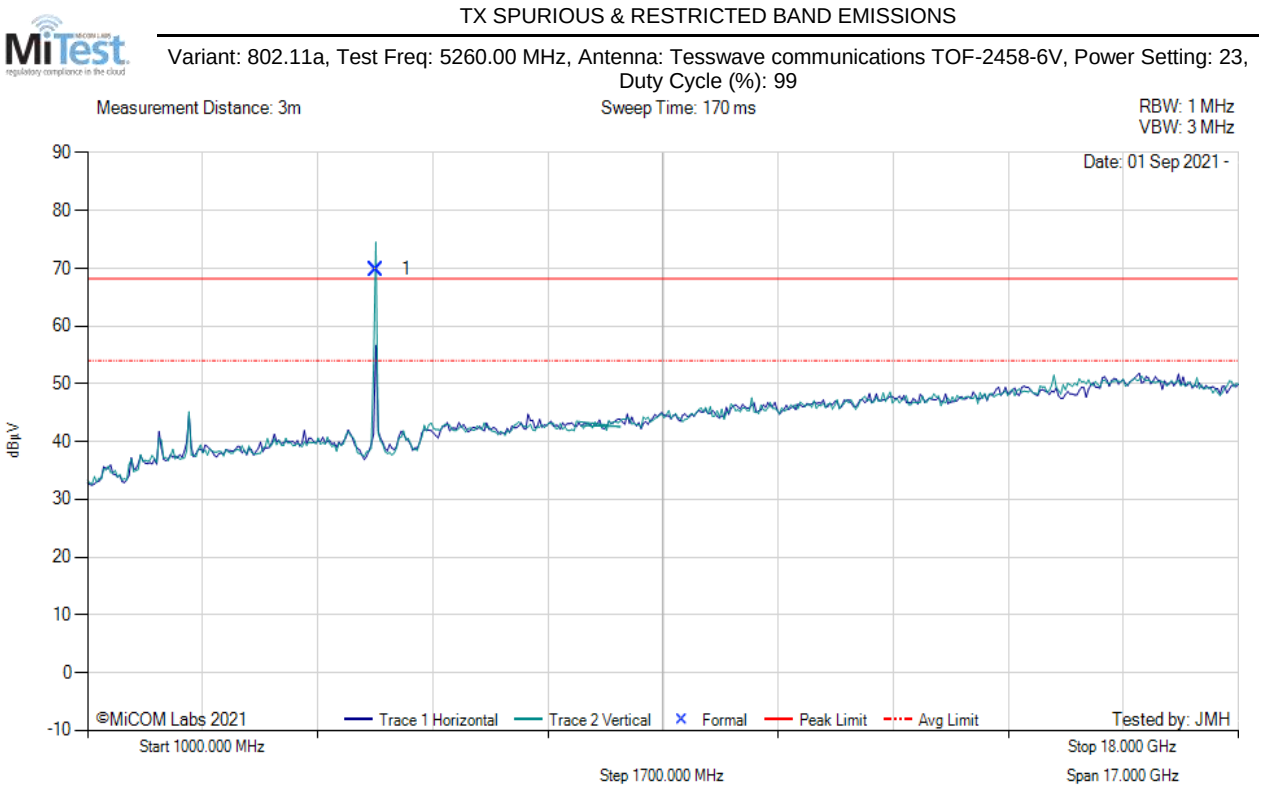
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5698.300 MHz : 2.164 dBm M1 + DCCF : 5698.300 MHz : 2.646 dBm Duty Cycle Correction Factor : +0.46 dB	Limit: ≤ 9.0 dBm Margin: -6.4 dB

back to matrix

A.3. Radiated

A.3.1. TX Spurious & Restricted Band Emissions

A.3.1.1. Tesswave communications TOF-2458-6V



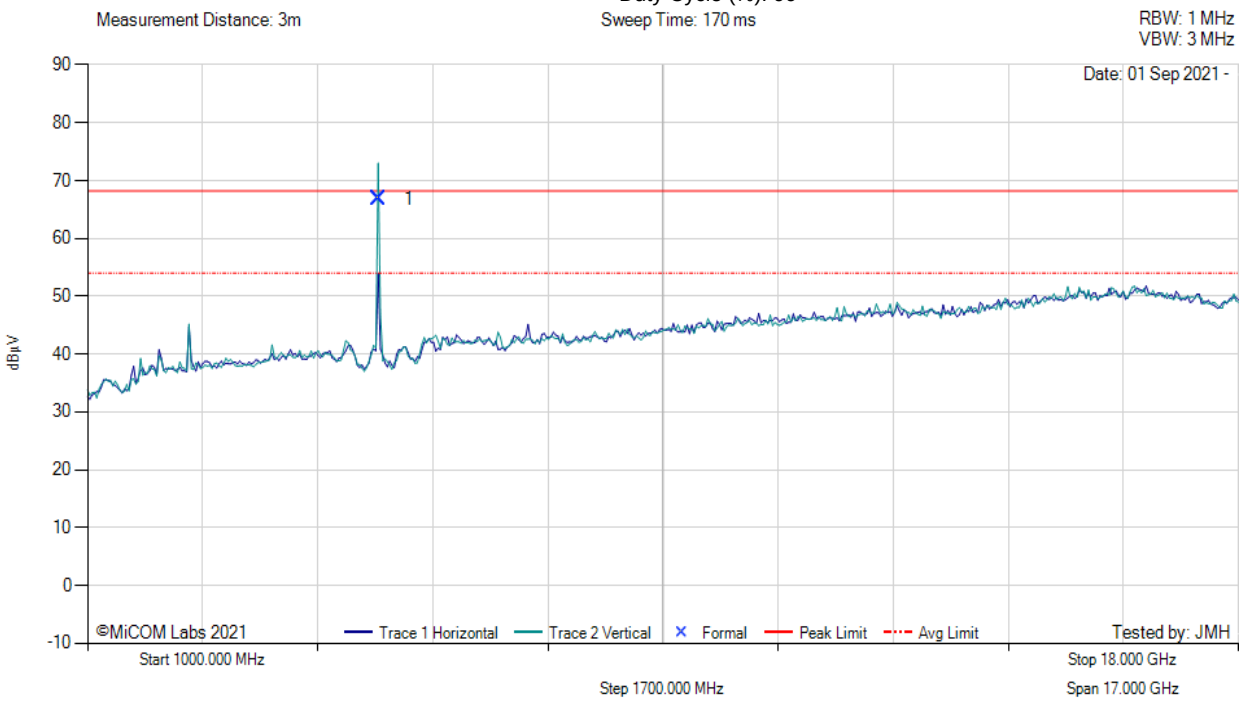
1000.00 - 18000.00 MHz												
Num	**Frequency MHz**	**Raw dBµV**	**Cable Loss dB**	**AF dB/m**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	5261.33	79.11	2.92	-12.22	69.81	Fundamental	Vertical	100	0	--	--	

Test Notes: Eut powered by PoE injector.

back to matrix

TX SPURIOUS & RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5300.00 MHz, Antenna: Tesswave communications TOF-2458-6V, Power Setting: 23, Duty Cycle (%): 99



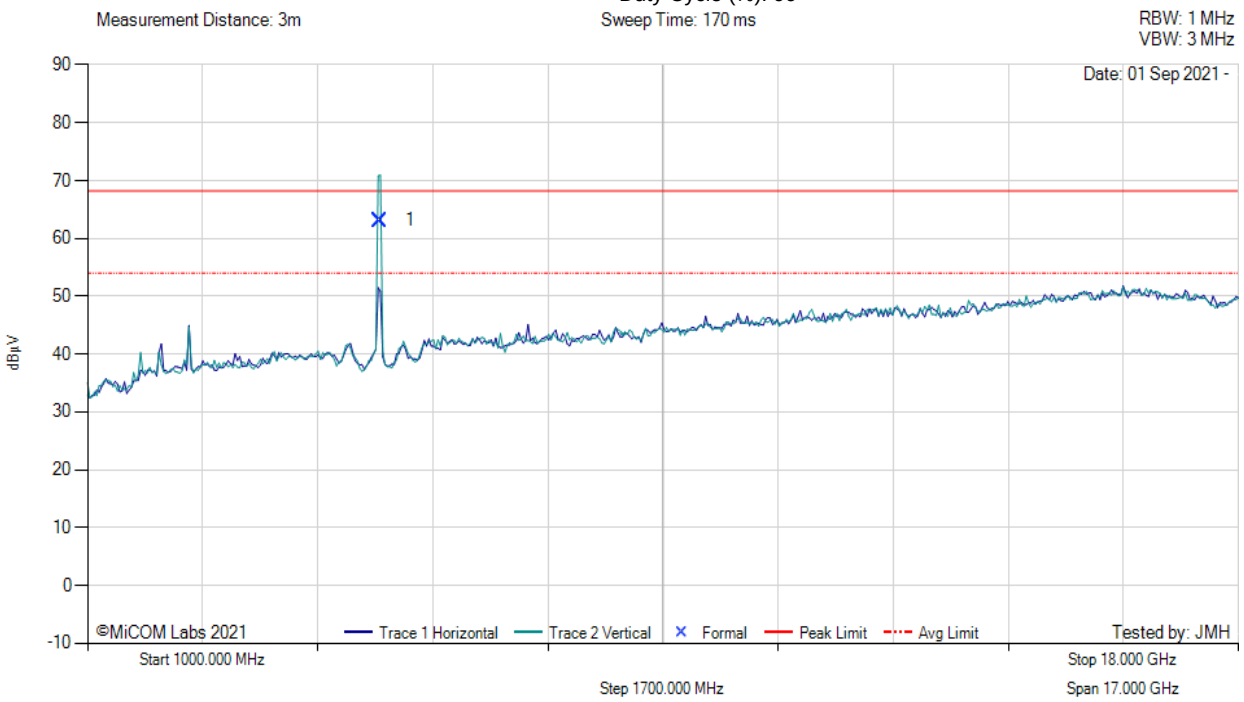
1000.00 - 18000.00 MHz												
Num	**Frequency MHz**	**Raw dBµV**	**Cable Loss dB**	**AF dB/m**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	5294.62	75.85	3.02	-12.01	66.86	Fundamental	Vertical	100	0	--	--	

Test Notes: Eut powered by PoE injector.

back to matrix

TX SPURIOUS & RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5320.00 MHz, Antenna: Tesswave communications TOF-2458-6V, Power Setting: 23, Duty Cycle (%): 99



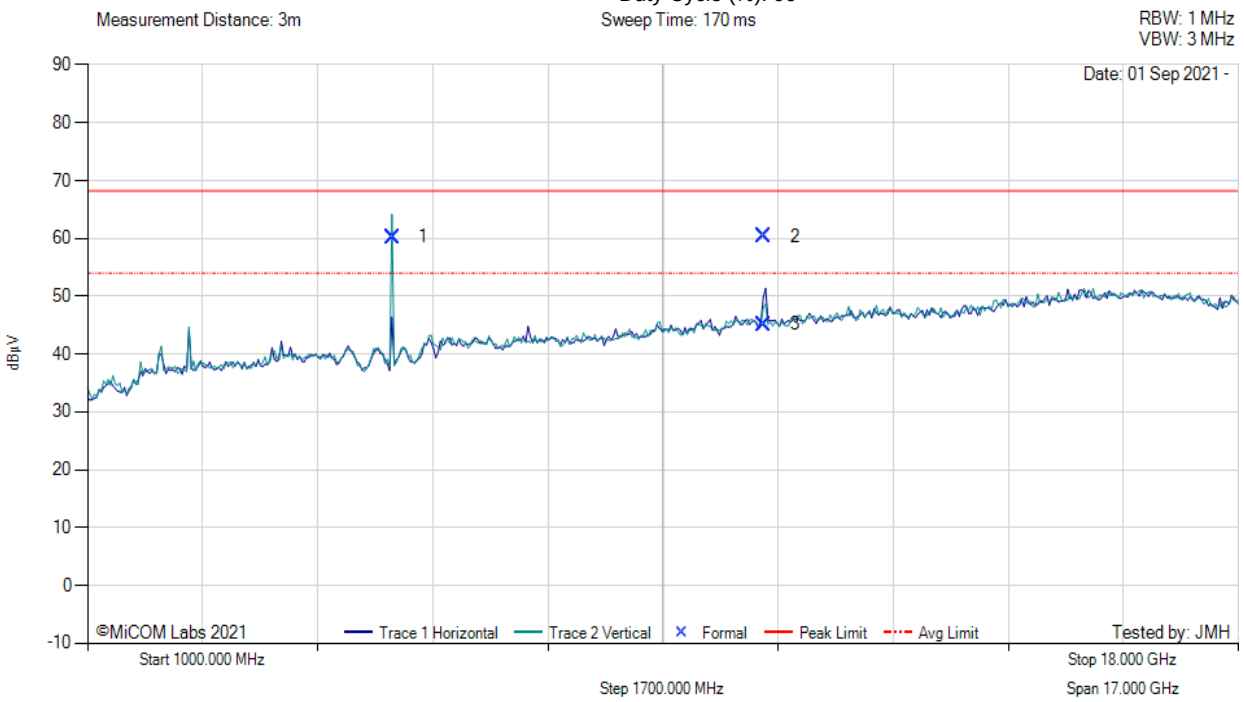
1000.00 - 18000.00 MHz												
Num	**Frequency MHz**	**Raw dBµV**	**Cable Loss dB**	**AF dB/m**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	5314.47	72.13	3.00	-12.00	63.13	Fundamental	Vertical	100	0	--	--	

Test Notes: Eut powered by PoE injector.

back to matrix

TX SPURIOUS & RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5500.00 MHz, Antenna: Tesswave communications TOF-2458-6V, Power Setting: 23, Duty Cycle (%): 99



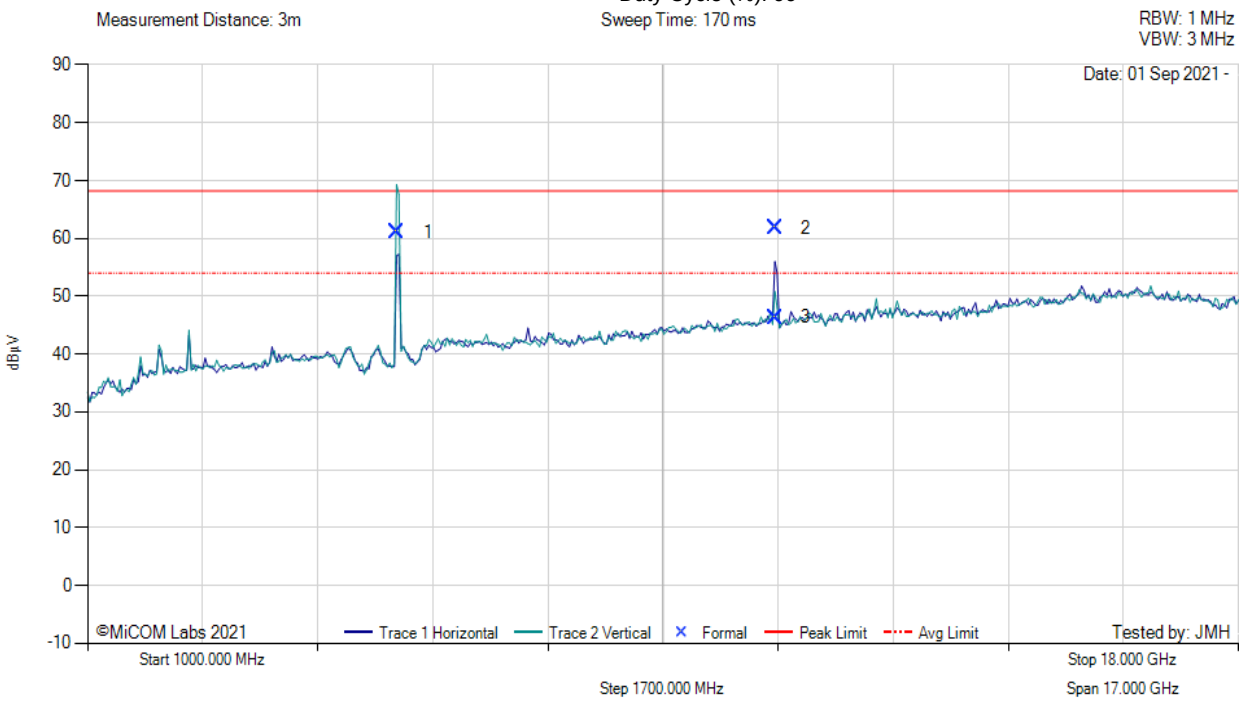
1000.00 - 18000.00 MHz												
Num	**Frequency MHz**	**Raw dBµV**	**Cable Loss dB**	**AF dB/m**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	5504.65	68.85	3.06	-11.66	60.25	Fundamental	Vertical	150	0	--	--	
2	10997.34	60.36	4.58	-4.64	60.30	Max Peak	Horizontal	198	71	68.2	-7.9	Pass
3	10997.34	45.17	4.58	-4.64	45.11	Max Avg	Horizontal	198	71	54.0	-8.9	Pass

Test Notes: Eut powered by PoE injector.

back to matrix

TX SPURIOUS & RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5580.00 MHz, Antenna: Tesswave communications TOF-2458-6V, Power Setting: 23, Duty Cycle (%): 99



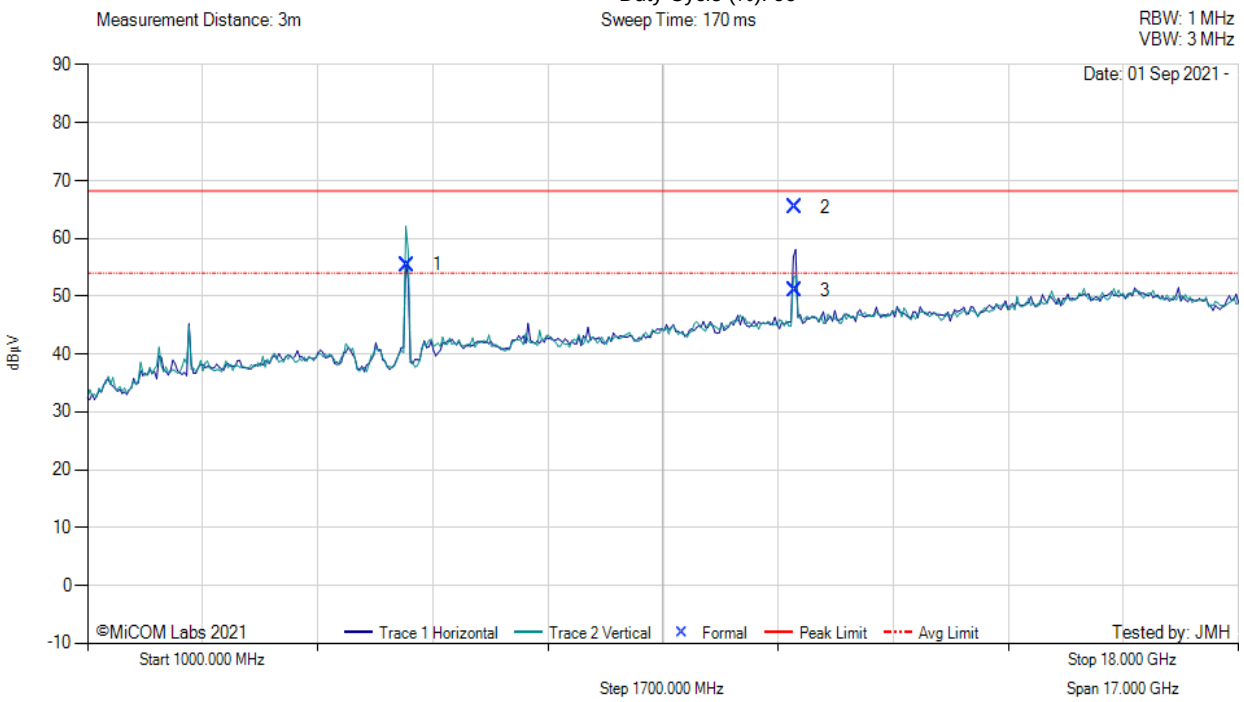
1000.00 - 18000.00 MHz												
Num	**Frequency MHz**	**Raw dBµV**	**Cable Loss dB**	**AF dB/m**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	5575.54	69.39	3.23	-11.57	61.05	Fundamental	Vertical	150	0	--	--	
2	11160.61	62.28	4.54	-5.00	61.82	Max Peak	Horizontal	144	156	68.2	-6.4	Pass
3	11160.61	46.81	4.54	-5.00	46.35	Max Avg	Horizontal	144	156	54.0	-7.7	Pass

Test Notes: Eut powered by PoE injector. 5G Notch in front of amp to prevent overload.

back to matrix

TX SPURIOUS & RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5720.00 MHz, Antenna: Tesswave communications TOF-2458-6V, Power Setting: 23, Duty Cycle (%): 99



1000.00 - 18000.00 MHz												
Num	**Frequency MHz**	**Raw dBµV**	**Cable Loss dB**	**AF dB/m**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	5714.85	63.60	3.16	-11.29	55.47	Fundamental	Vertical	150	179	--	--	
2	11442.27	66.58	4.47	-5.61	65.44	Max Peak	Horizontal	162	142	68.2	-2.8	Pass
3	11442.27	52.21	4.47	-5.61	51.07	Max Avg	Horizontal	162	142	54.0	-2.9	Pass

Test Notes: Eut powered by PoE injector. 5G Notch in front of amp to prevent overload.

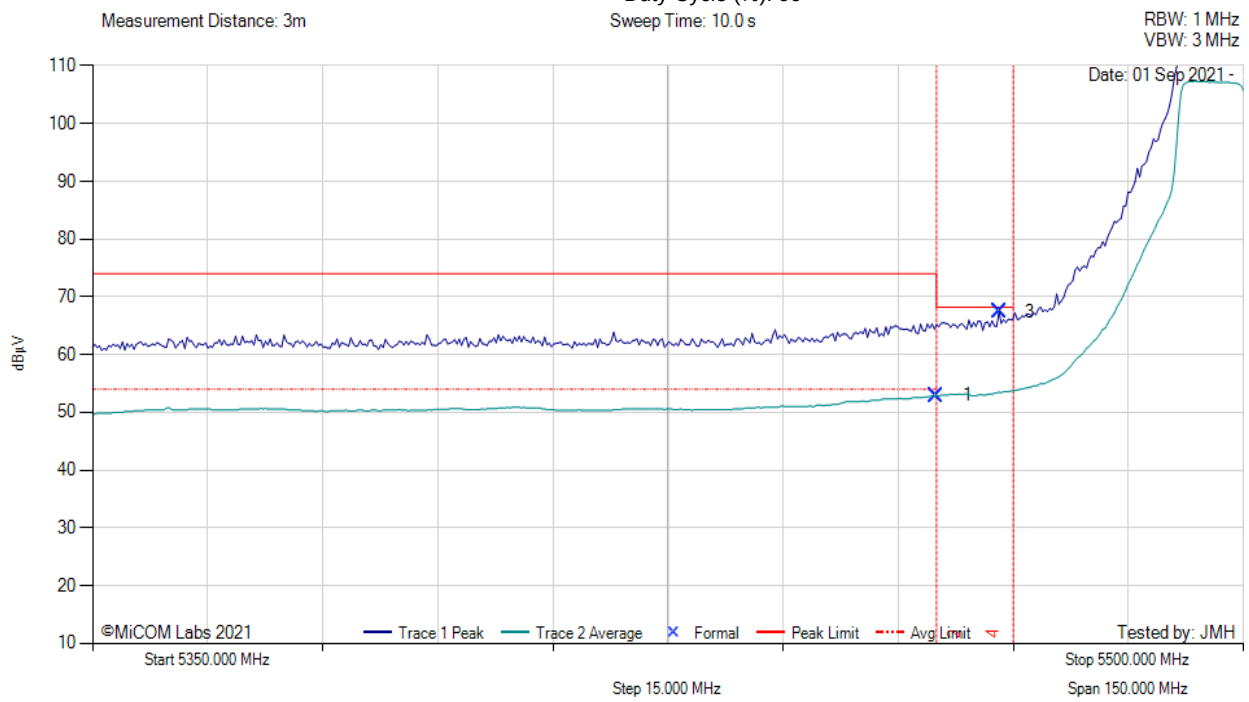
back to matrix

A.3.2. Restricted Edge & Band-Edge Emissions

A.3.2.2. Tesswave communications TOF-2458-6V

RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11a, Test Freq: 5500.00 MHz, Antenna: Tesswave communications TOF-2458-6V, Power Setting: 22, Duty Cycle (%): 99



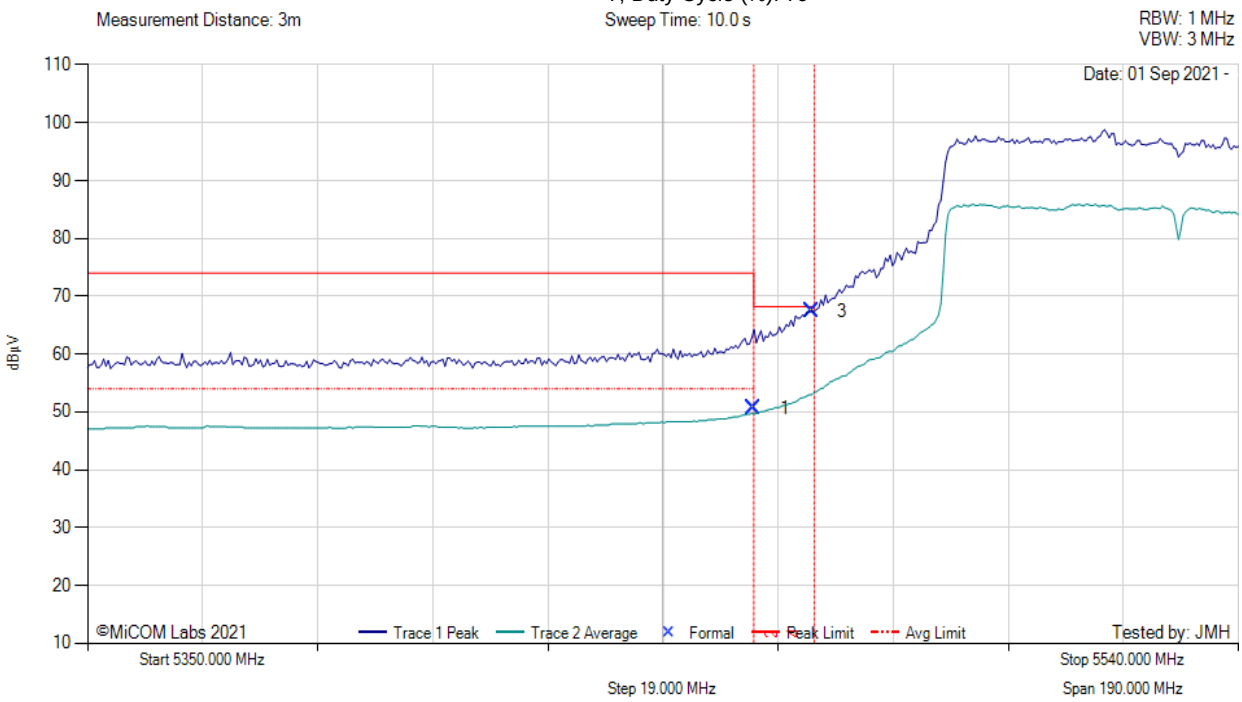
5350.00 - 5500.00 MHz												
Num	**Frequency MHz**	**Raw dBµV**	**Cable Loss dB**	**AF dB/m**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	5460.00	15.30	3.06	34.53	52.89	Max Avg	Vertical	197	356	54.0	-1.1	Pass
3	5468.20	29.76	3.07	34.55	67.38	Max Peak	Vertical	197	356	68.2	-0.9	Pass
2	5460.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--
4	5470.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: Eut powered by PoE injector.

back to matrix

RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11ac-80, Test Freq: 5530.00 MHz, Antenna: Tesswave communications TOF-2458-6V, Power Setting: 7, Duty Cycle (%): 79



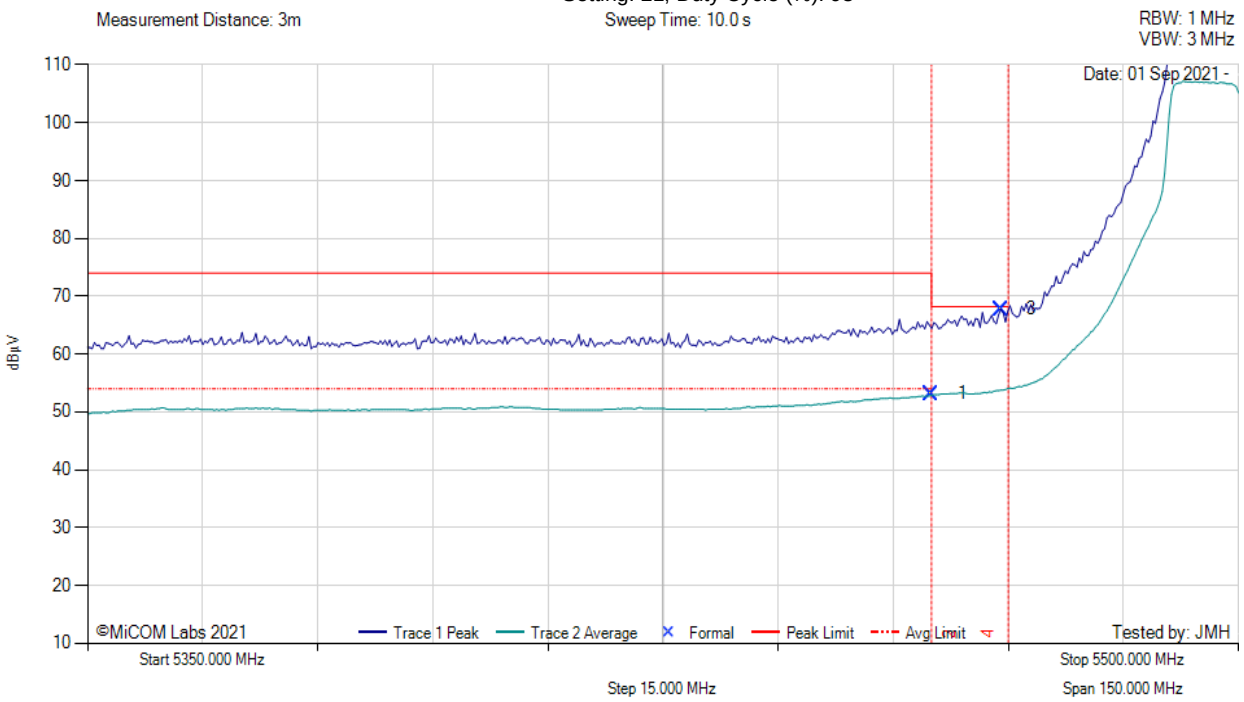
5350.00 - 5540.00 MHz												
Num	**Frequency MHz**	**Raw dBµV**	**Cable Loss dB**	**AF dB/m**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	5460.00	12.03	3.06	34.53	50.63	Max Avg	Vertical	197	356	54.0	-18.6	Pass
3	5469.62	29.79	3.06	34.55	67.40	Max Peak	Vertical	197	356	68.2	-0.8	Pass
2	5460.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--
4	5470.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: Eut powered by PoE injector. Avg measurement include DCCF of 1.01

back to matrix

RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11n HT-20, Test Freq: 5500.00 MHz, Antenna: Tesswave communications TOF-2458-6V, Power Setting: 21, Duty Cycle (%): 93



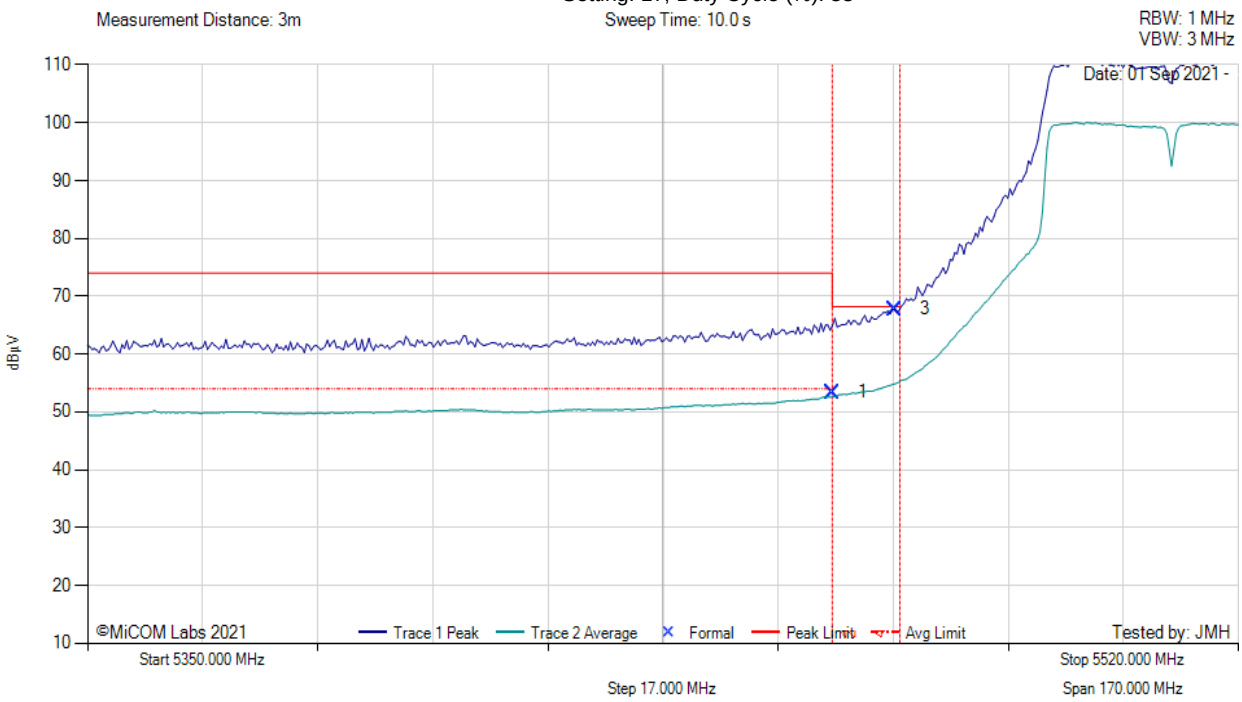
5350.00 - 5500.00 MHz												
Num	**Frequency MHz**	**Raw dBµV**	**Cable Loss dB**	**AF dB/m**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	5460.00	15.60	3.06	34.53	53.19	Max Avg	Vertical	197	356	54.0	-0.8	Pass
3	5469.02	30.14	3.06	34.55	67.75	Max Peak	Vertical	197	356	68.2	-0.5	Pass
2	5460.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--
4	5470.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: Eut powered by PoE injector. Avg measurement include DCCF of 0.3

back to matrix

RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11n HT-40, Test Freq: 5510.00 MHz, Antenna: Tesswave communications TOF-2458-6V, Power Setting: 17, Duty Cycle (%): 83



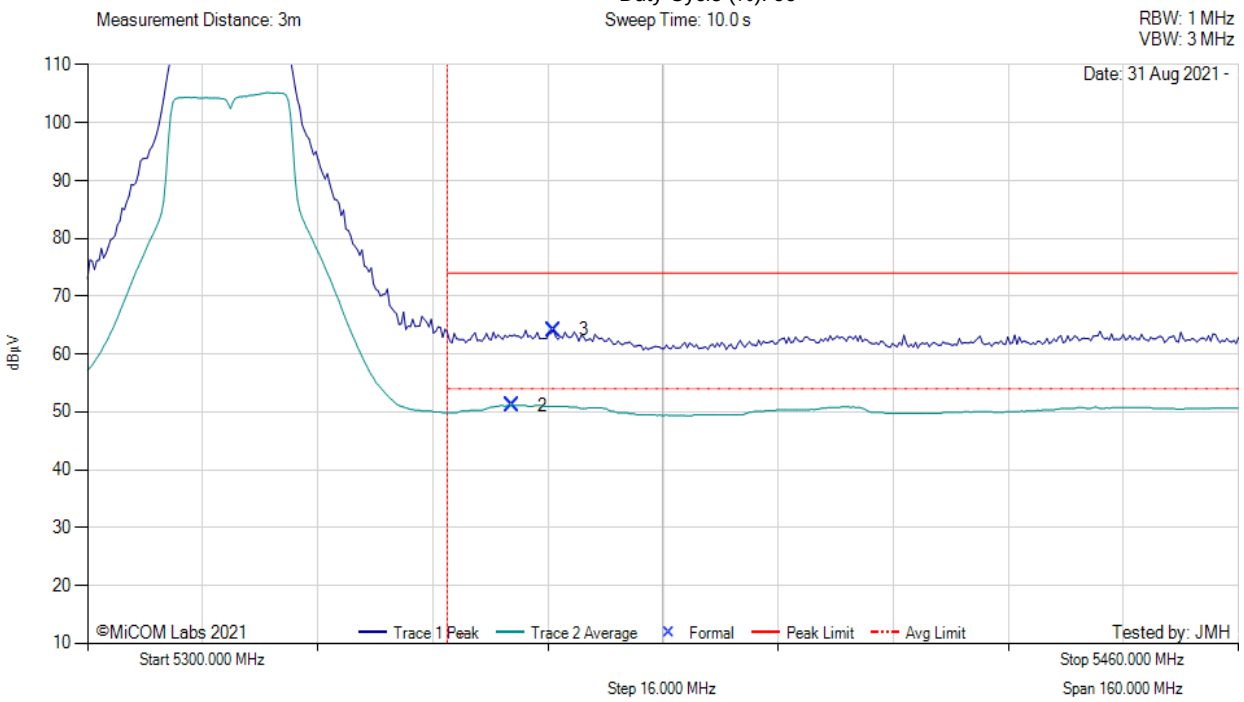
5350.00 - 5520.00 MHz												
Num	**Frequency MHz**	**Raw dBµV**	**Cable Loss dB**	**AF dB/m**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	5460.00	14.98	3.06	34.53	53.42	Max Avg	Vertical	197	356	54.0	-0.6	Pass
3	5469.20	30.18	3.06	34.55	67.79	Max Peak	Vertical	197	356	68.2	-0.4	Pass
2	5460.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--
4	5470.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: Eut powered by PoE injector. Avg measurement include DCCF of 0.85

back to matrix

RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11a, Test Freq: 5320.00 MHz, Antenna: Tesswave communications TOF-2458-6V, Power Setting: 23, Duty Cycle (%): 99



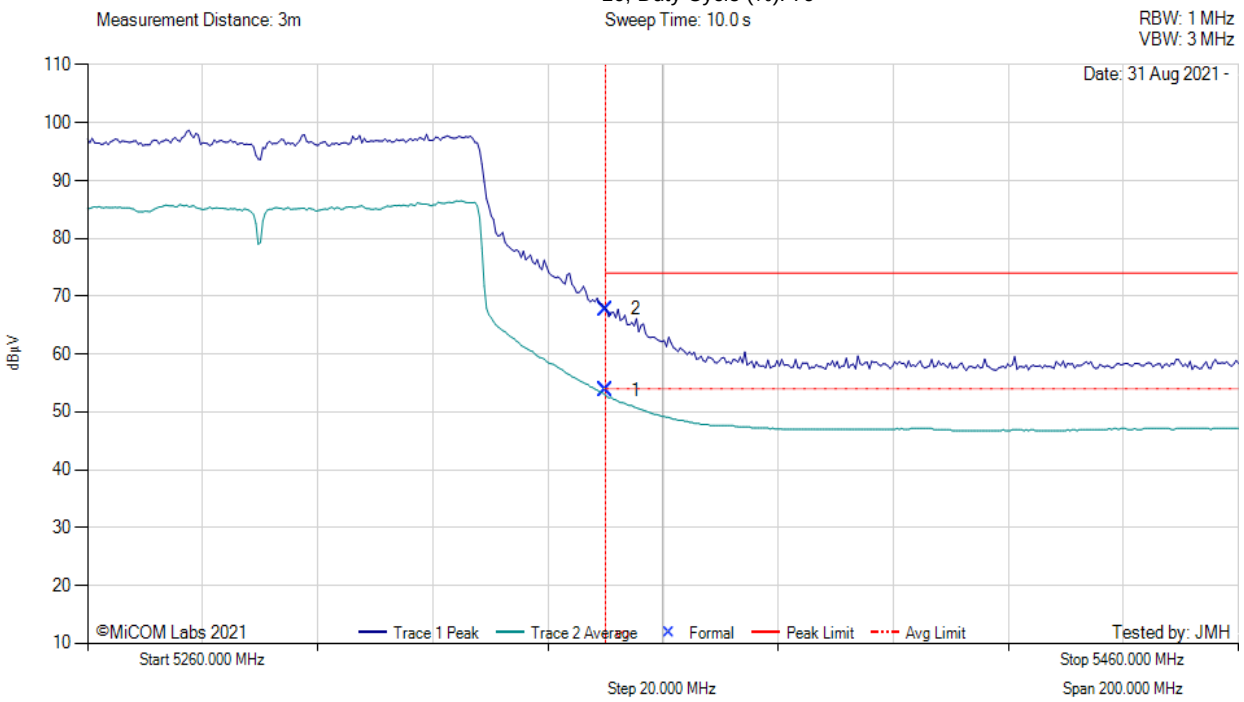
5300.00 - 5460.00 MHz												
Num	**Frequency MHz**	**Raw dBµV**	**Cable Loss dB**	**AF dB/m**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
2	5359.00	13.61	3.04	34.47	51.12	Max Avg	Vertical	197	356	54.0	-2.9	Pass
3	5364.77	26.67	3.07	34.48	64.22	Max Peak	Vertical	197	356	74.0	-9.8	Pass
1	5350.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--

Test Notes: EUT powered by PoE injector.

back to matrix

RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11ac-80, Test Freq: 5290.00 MHz, Antenna: Tesswave communications TOF-2458-6V, Power Setting: 10, Duty Cycle (%): 79



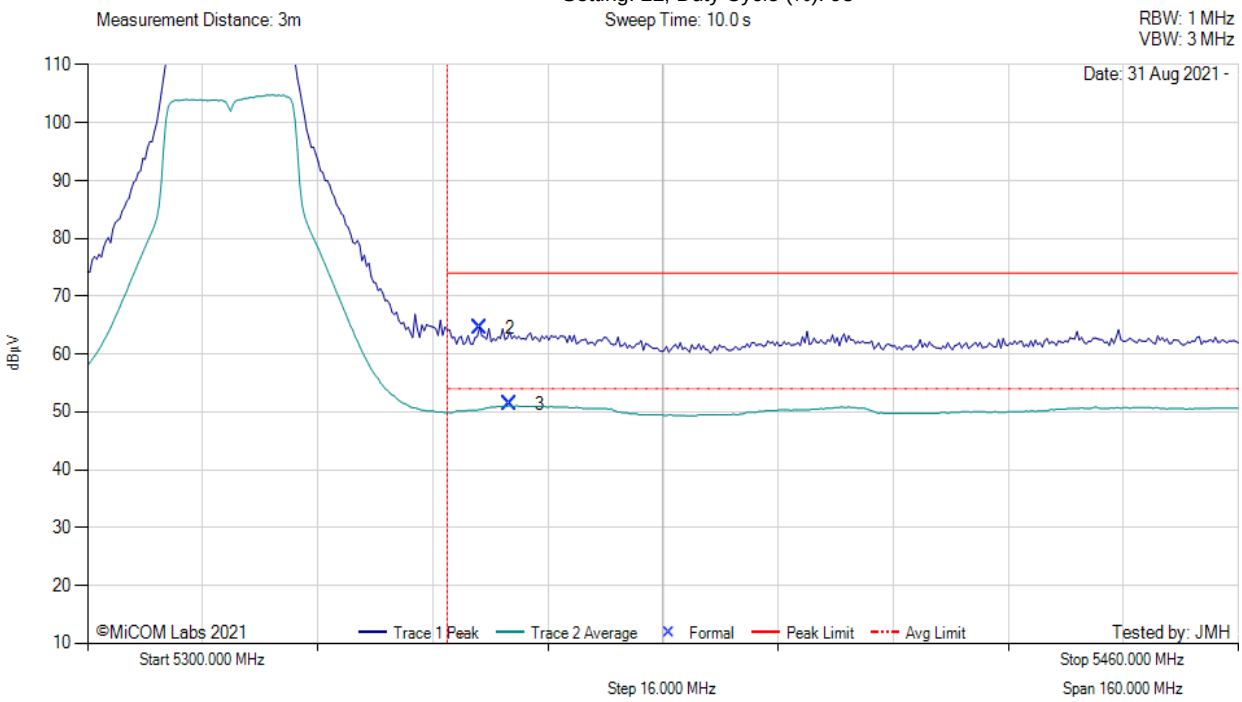
5260.00 - 5460.00 MHz												
Num	**Frequency MHz**	**Raw dBµV**	**Cable Loss dB**	**AF dB/m**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	5350.00	16.25	3.06	34.46	53.77	Max Avg	Vertical	197	356	54.0	-0.2	Pass
2	5350.00	30.24	3.06	34.46	67.76	Max Peak	Vertical	197	356	74.0	-6.2	Pass
3	5350.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--

Test Notes: EUT powered by PoE injector. Avg measurement includes DCCF of 1.01 dB

back to matrix

RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11n HT-20, Test Freq: 5320.00 MHz, Antenna: Tesswave communications TOF-2458-6V, Power Setting: 22, Duty Cycle (%): 93



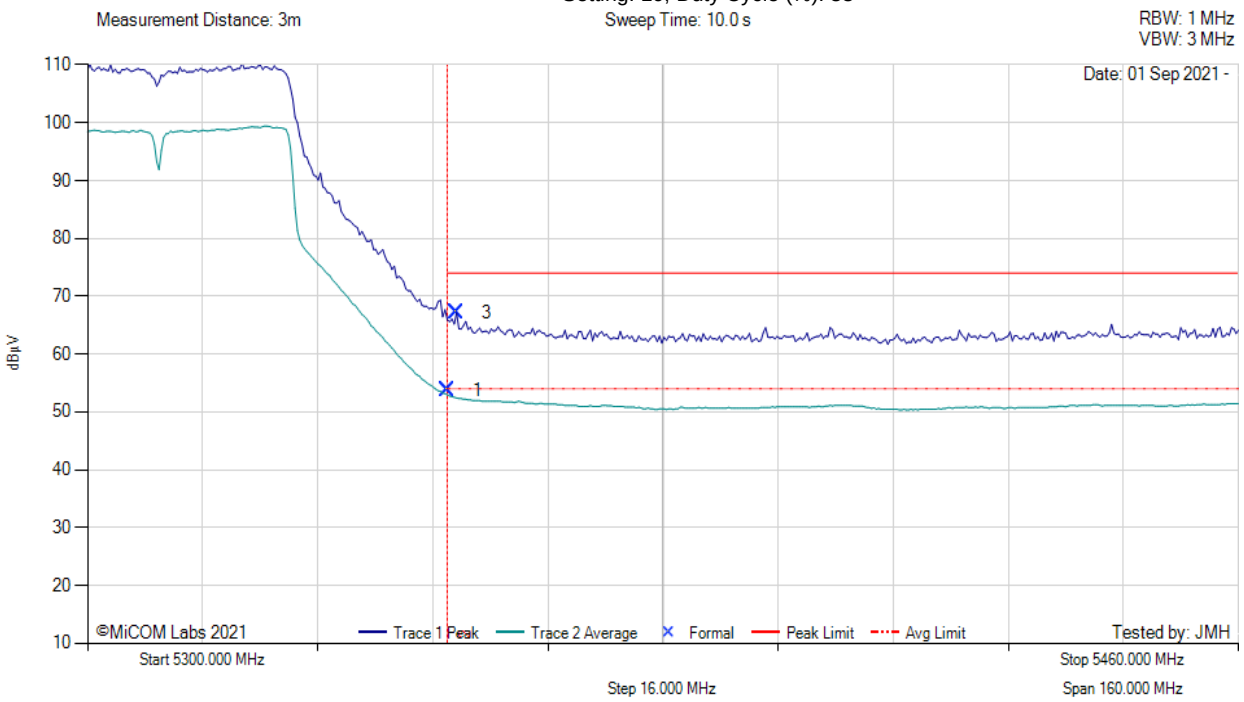
5300.00 - 5460.00 MHz												
Num	**Frequency MHz**	**Raw dBµV**	**Cable Loss dB**	**AF dB/m**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
2	5354.51	27.07	3.05	34.47	64.59	Max Peak	Vertical	197	356	74.0	-9.4	Pass
3	5358.68	13.91	3.04	34.47	51.42	Max Avg	Vertical	197	356	54.0	-2.6	Pass
1	5350.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--

Test Notes: EUT powered by PoE injector. Avg Measurement includes DCCF of 0.3 dB

back to matrix

RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11n HT-40, Test Freq: 5310.00 MHz, Antenna: Tesswave communications TOF-2458-6V, Power Setting: 19, Duty Cycle (%): 83



5300.00 - 5460.00 MHz												
Num	**Frequency MHz**	**Raw dBµV**	**Cable Loss dB**	**AF dB/m**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	5350.00	15.46	3.06	34.46	53.83	Max Avg	Vertical	197	356	54.0	-0.2	Pass
3	5351.28	29.62	3.06	34.46	67.14	Max Peak	Vertical	197	356	74.0	-8.9	Pass
2	5350.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--

Test Notes: Eut powered by PoE injector. Avg measurement includes DCCF of 0.85

back to matrix

B. APPENDIX – RADAR SIGNATURES

Type 5 #1 5500 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	3	18	279076	95	1381	1127	424013	705882
2	1	18	107115	71	0	0	598696	705882
3	2	18	261454	79	1142	0	443128	705882
4	1	18	371947	93	0	0	333842	705882
5	1	18	223408	65	0	0	482409	705882
6	2	18	324644	93	1624	0	379428	705882
7	3	18	250410	74	1224	1561	452465	705882
8	1	18	631128	94	0	0	74660	705882
9	2	18	339910	64	1319	0	364525	705882
10	2	18	497247	72	1347	0	207144	705882
11	3	18	327205	52	1866	1156	375499	705882
12	2	18	190982	75	1576	0	513174	705882
13	1	18	424230	79	0	0	281573	705882
14	3	18	81221	97	1032	1706	621632	705882
15	2	18	164973	90	1968	0	538761	705882
16	3	18	358242	73	1907	1944	343570	705882
17	3	18	47350	55	1489	1774	655104	705882

Type 5 #2 5500 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	2	15	254797	59	1705	0	834289	1090909
2	2	15	168306	72	1411	0	921048	1090909
3	2	15	1018700	74	1244	0	70817	1090909
4	3	15	812728	75	1094	1588	275274	1090909
5	3	15	347378	82	1482	1249	740554	1090909
6	3	15	205555	69	1290	1996	881861	1090909
7	1	15	577683	67	0	0	513159	1090909
8	2	15	747163	62	1359	0	342263	1090909
9	3	15	780845	76	1516	1009	307311	1090909
10	1	15	761507	99	0	0	329303	1090909
11	1	15	940796	84	0	0	150029	1090909

Type 5 #3 5503 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	1	14	205748	67	0	0	994185	1200000
2	1	14	1068762	55	0	0	131183	1200000
3	1	14	274774	56	0	0	925170	1200000
4	1	14	131254	53	0	0	1068693	1200000
5	3	14	505090	62	1296	1602	691826	1200000
6	2	14	281001	65	1307	0	917562	1200000
7	2	14	993654	75	1306	0	204890	1200000
8	1	14	621311	96	0	0	578593	1200000
9	2	14	197548	67	1719	0	1000599	1200000
10	1	14	1008293	91	0	0	191616	1200000

Type 5 #4 5495 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	1	9	793712	55	0	0	129309	923076
2	2	9	713207	99	1860	0	207811	923076
3	3	9	27171	53	1387	1846	892513	923076
4	1	9	347082	61	0	0	575933	923076
5	3	9	443772	81	1521	1866	475674	923076
6	2	9	904334	79	1460	0	17124	923076
7	2	9	883132	76	1070	0	38722	923076
8	3	9	470985	75	1056	1057	449753	923076
9	2	9	790656	98	1566	0	130658	923076
10	3	9	414388	86	1810	1783	504837	923076
11	2	9	227446	85	1638	0	693822	923076
12	1	9	363692	69	0	0	559315	923076
13	2	9	507417	72	1793	0	413722	923076

Type 5 #5 5500 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	2	7	460112	92	1228	0	338476	800000
2	1	7	512528	67	0	0	287405	800000
3	3	7	737553	83	1643	1661	58894	800000
4	2	7	250717	70	1386	0	547757	800000
5	3	7	122169	53	1148	1110	675414	800000
6	1	7	136289	77	0	0	663634	800000
7	2	7	86225	75	1187	0	712438	800000
8	3	7	678417	73	1499	1996	117869	800000
9	3	7	105630	68	1534	1750	690882	800000
10	2	7	582236	81	1941	0	215661	800000
11	3	7	93762	64	1483	1279	703284	800000
12	1	7	634171	71	0	0	165758	800000
13	1	7	123290	73	0	0	676637	800000
14	2	7	728318	75	1826	0	69706	800000
15	3	7	564547	69	1523	1463	232260	800000

Type 5 #6 5501 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	2	19	774791	89	1880	0	80293	857142
2	3	19	490689	92	1074	1348	363755	857142
3	3	19	509186	52	1667	1887	344246	857142
4	2	19	25066	82	1722	0	830190	857142
5	2	19	476344	67	1320	0	379344	857142
6	2	19	344314	53	1756	0	510966	857142
7	3	19	428229	94	1485	1688	425458	857142
8	2	19	482341	92	1998	0	372619	857142
9	2	19	223298	91	1792	0	631870	857142
10	3	19	696866	66	1766	1907	156405	857142
11	2	19	285439	79	1304	0	570241	857142
12	1	19	3522	56	0	0	853564	857142
13	2	19	161561	78	1171	0	694254	857142
14	1	19	81536	60	0	0	775546	857142

Type 5 #7 5500 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	2	20	644869	76	1414	0	210707	857142
2	3	20	350500	100	1943	1009	503390	857142
3	3	20	609546	69	1830	1168	244391	857142
4	3	20	631022	54	1972	1957	222029	857142
5	1	20	362115	54	0	0	494973	857142
6	3	20	89261	56	1595	1091	765027	857142
7	2	20	705341	51	1805	0	149894	857142
8	2	20	139024	63	1601	0	716391	857142
9	1	20	700221	89	0	0	156832	857142
10	1	20	73191	97	0	0	783854	857142
11	3	20	676542	64	1494	1011	177903	857142
12	1	20	271027	61	0	0	586054	857142
13	1	20	662228	92	0	0	194822	857142
14	1	20	694893	91	0	0	162158	857142

Type 5 #8 5505 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	2	10	541415	74	1548	0	123555	666666
2	3	10	72840	67	1744	1797	590084	666666
3	3	10	315487	81	1325	1144	348467	666666
4	2	10	522764	68	1951	0	141815	666666
5	3	10	180422	71	1458	1456	483117	666666
6	2	10	310469	76	1196	0	354849	666666
7	1	10	161988	83	0	0	504595	666666
8	3	10	18031	70	1325	1976	645124	666666
9	3	10	443125	83	1517	1200	220575	666666
10	2	10	579615	66	1282	0	85637	666666
11	1	10	85685	78	0	0	580903	666666
12	3	10	179489	68	1036	1069	484868	666666
13	1	10	325437	68	0	0	341161	666666
14	2	10	135891	88	1772	0	528827	666666
15	1	10	506531	99	0	0	160036	666666
16	3	10	402042	88	1942	1255	261163	666666
17	1	10	583936	60	0	0	82670	666666
18	2	10	76250	51	1100	0	589214	666666

Type 5 #9 5498 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	2	17	55663	64	1178	0	866107	923076
2	3	17	823447	79	1605	1078	96709	923076
3	2	17	35010	91	1895	0	885989	923076
4	1	17	891458	100	0	0	31518	923076
5	1	17	685810	70	0	0	237196	923076
6	2	17	863418	78	1093	0	58409	923076
7	1	17	283241	88	0	0	639747	923076
8	1	17	705398	62	0	0	217616	923076
9	2	17	555344	100	1690	0	365842	923076
10	3	17	702795	52	1704	1646	216775	923076
11	3	17	398752	87	1946	1299	520818	923076
12	3	17	460094	59	1800	1437	459568	923076
13	3	17	757384	96	1670	1921	161813	923076

Type 5 #10 5496 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	1	13	503353	89	0	0	587467	1090909
2	2	13	288769	72	1038	0	800958	1090909
3	1	13	231447	96	0	0	859366	1090909
4	2	13	61366	82	1874	0	1027505	1090909
5	2	13	946755	66	1283	0	142739	1090909
6	3	13	616494	97	1915	1986	470223	1090909
7	2	13	420765	56	1837	0	668195	1090909
8	1	13	255381	84	0	0	835444	1090909
9	2	13	256399	68	1398	0	832976	1090909
10	2	13	663382	50	1477	0	425950	1090909
11	1	13	643407	60	0	0	447442	1090909

Type 5 #11 5500 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	2	14	152596	83	1458	0	477358	631578
2	3	14	101013	60	1077	1726	527582	631578
3	3	14	584848	89	1071	1428	43964	631578
4	3	14	129263	62	1375	1715	499039	631578
5	2	14	334272	84	1360	0	295778	631578
6	2	14	480712	76	1109	0	149605	631578
7	2	14	151754	85	1979	0	477675	631578
8	1	14	586675	73	0	0	44830	631578
9	3	14	268720	95	1448	1232	359893	631578
10	1	14	280651	97	0	0	350830	631578
11	1	14	47678	77	0	0	583823	631578
12	2	14	492268	54	1472	0	137730	631578
13	3	14	126783	74	1207	1717	501649	631578
14	1	14	258771	68	0	0	372739	631578
15	3	14	442690	81	1790	1095	185760	631578
16	1	14	582144	97	0	0	49337	631578
17	2	14	420409	68	1658	0	209375	631578
18	2	14	337014	61	1611	0	292831	631578
19	3	14	279046	89	1327	1684	349254	631578

Type 5 #12 5493 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	3	5	521727	76	1332	1820	674893	1200000
2	1	5	180523	69	0	0	1019408	1200000
3	1	5	378865	99	0	0	821036	1200000
4	3	5	783859	86	1050	1859	412974	1200000
5	3	5	127508	96	1590	1919	1068695	1200000
6	2	5	1031957	67	1157	0	166752	1200000
7	2	5	157204	87	1508	0	1041114	1200000
8	1	5	953706	93	0	0	246201	1200000
9	2	5	901276	63	1411	0	297187	1200000
10	2	5	1003087	74	1281	0	195484	1200000

Type 5 #13 5500 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	3	17	756613	71	1524	1366	240284	1000000
2	1	17	595704	99	0	0	404197	1000000
3	1	17	696419	85	0	0	303496	1000000
4	2	17	145404	60	1812	0	852664	1000000
5	2	17	930764	75	1922	0	67164	1000000
6	2	17	39425	61	1729	0	958724	1000000
7	2	17	860169	68	1223	0	138472	1000000
8	1	17	681091	88	0	0	318821	1000000
9	3	17	155772	88	1041	1444	841479	1000000
10	1	17	922761	89	0	0	77150	1000000
11	1	17	882939	96	0	0	116965	1000000
12	2	17	245381	92	1291	0	753144	1000000

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Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	2	19	504133	61	1995	0	125328	631578
2	2	19	202083	90	1883	0	427432	631578
3	2	19	7628	72	1060	0	622746	631578
4	3	19	80448	94	1595	1807	547446	631578
5	1	19	220293	74	0	0	411211	631578
6	2	19	599456	59	1507	0	30497	631578
7	1	19	327044	86	0	0	304448	631578
8	3	19	265177	97	1152	1250	363708	631578
9	2	19	619983	51	1267	0	10226	631578
10	2	19	509763	61	1471	0	120222	631578
11	3	19	246636	56	1222	1864	381688	631578
12	3	19	179248	57	1169	1230	449760	631578
13	1	19	425753	59	0	0	205766	631578
14	1	19	55536	77	0	0	575965	631578
15	2	19	333052	81	1772	0	296592	631578
16	1	19	548223	100	0	0	83255	631578
17	3	19	53881	67	1709	1273	574514	631578
18	1	19	453996	75	0	0	177507	631578
19	2	19	374738	58	1004	0	255720	631578

Type 5 #15 5495 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	1	9	145963	85	0	0	853952	1000000
2	1	9	836569	62	0	0	163369	1000000
3	2	9	282578	85	1409	0	715843	1000000
4	1	9	11174	95	0	0	988731	1000000
5	1	9	173443	54	0	0	826503	1000000
6	1	9	914572	92	0	0	85336	1000000
7	2	9	310527	77	1178	0	688141	1000000
8	1	9	557902	95	0	0	442003	1000000
9	3	9	838950	83	1045	1127	158629	1000000
10	2	9	935494	83	1949	0	62391	1000000
11	2	9	486738	86	1861	0	511229	1000000
12	1	9	207054	82	0	0	792864	1000000

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Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	3	13	556654	58	1548	1025	531508	1090909
2	1	13	263813	86	0	0	827010	1090909
3	2	13	559801	95	1483	0	529435	1090909
4	2	13	620192	52	1809	0	468804	1090909
5	3	13	626484	84	1477	1801	460895	1090909
6	3	13	918020	67	1422	1744	169522	1090909
7	3	13	1006140	60	1130	1482	81977	1090909
8	2	13	527509	71	1057	0	562201	1090909
9	2	13	795522	96	1322	0	293873	1090909
10	3	13	723600	81	1040	1053	364973	1090909
11	2	13	1004466	51	1699	0	84642	1090909

Type 5 #17 5500 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	3	12	294130	100	1283	1127	453160	750000
2	1	12	384296	63	0	0	365641	750000
3	3	12	308178	59	1016	1881	438748	750000
4	1	12	528048	82	0	0	221870	750000
5	3	12	585915	58	1231	1559	161121	750000
6	2	12	78729	50	1636	0	669535	750000
7	3	12	659704	93	1006	1195	87816	750000
8	2	12	587259	83	1233	0	161342	750000
9	2	12	511941	57	1731	0	236214	750000
10	3	12	379867	57	1491	1419	367052	750000
11	3	12	23350	86	1559	1757	723076	750000
12	1	12	476755	51	0	0	273194	750000
13	1	12	258157	70	0	0	491773	750000
14	1	12	398721	84	0	0	351195	750000
15	2	12	714735	99	1563	0	33504	750000
16	2	12	75366	54	1828	0	672698	750000

Type 5 #18 5494 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	3	7	379106	64	1636	1577	284155	666666
2	2	7	202290	60	1775	0	462481	666666
3	3	7	458843	76	1497	1673	204425	666666
4	3	7	508035	92	1330	1945	155080	666666
5	3	7	347360	84	1897	1776	315381	666666
6	1	7	408849	75	0	0	257742	666666
7	1	7	33585	71	0	0	633010	666666
8	3	7	14580	69	1008	1566	649305	666666
9	3	7	284704	64	1334	1314	379122	666666
10	1	7	378930	58	0	0	287678	666666
11	2	7	442909	62	1782	0	221851	666666
12	3	7	337039	63	1795	1267	326376	666666
13	2	7	47170	72	1133	0	618219	666666
14	3	7	508350	56	1819	1587	154742	666666
15	2	7	229076	55	1960	0	435520	666666
16	2	7	62653	50	1720	0	602193	666666
17	1	7	528800	65	0	0	137801	666666
18	2	7	76044	60	1385	0	589117	666666

Type 5 #19 5500 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	1	18	634932	92	0	0	698309	1333333
2	1	18	983848	68	0	0	349417	1333333
3	3	18	739018	83	1668	1565	590833	1333333
4	3	18	467773	89	1548	1483	862262	1333333
5	1	18	567957	100	0	0	765276	1333333
6	3	18	620807	87	1846	1472	708947	1333333
7	3	18	999077	80	1812	1840	330364	1333333
8	1	18	986600	62	0	0	346671	1333333
9	3	18	841945	78	1446	1142	488566	1333333

Type 5 #20 5494 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	1	7	150869	90	0	0	554923	705882
2	1	7	315144	63	0	0	390675	705882
3	2	7	514286	56	1120	0	190364	705882
4	1	7	290894	88	0	0	414900	705882
5	3	7	452800	72	1304	1471	250091	705882
6	2	7	87348	77	1548	0	616832	705882
7	2	7	505237	71	1035	0	199468	705882
8	3	7	429402	75	1015	1128	274112	705882
9	1	7	163245	76	0	0	542561	705882
10	2	7	641156	72	1211	0	63371	705882
11	3	7	315020	63	1006	1511	388156	705882
12	3	7	419175	71	1153	1136	284205	705882
13	3	7	663705	80	1108	1080	39749	705882
14	2	7	6890	100	1573	0	697219	705882
15	2	7	638360	66	1377	0	66013	705882
16	2	7	94585	53	1132	0	610059	705882
17	2	7	370804	62	1068	0	333886	705882

Type 5 #21 5500 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	1	20	587033	50	0	0	44495	631578
2	2	20	437596	57	1494	0	192374	631578
3	2	20	331716	67	1142	0	298586	631578
4	1	20	514158	81	0	0	117339	631578
5	3	20	172802	54	1003	1342	456269	631578
6	2	20	476440	52	1659	0	153375	631578
7	1	20	554077	99	0	0	77402	631578
8	1	20	77071	61	0	0	554446	631578
9	3	20	401250	72	1292	1565	227255	631578
10	3	20	209402	60	1102	1809	419085	631578
11	2	20	484281	80	1206	0	145931	631578
12	3	20	263391	96	1554	1982	364363	631578
13	2	20	280087	97	1745	0	349552	631578
14	3	20	310669	63	1242	1302	318176	631578
15	3	20	444089	68	1695	1530	184060	631578
16	3	20	146321	53	1249	1231	482618	631578
17	1	20	270076	83	0	0	361419	631578
18	1	20	474511	51	0	0	157016	631578
19	1	20	507063	64	0	0	124451	631578

Type 5 #22 5498 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	2	18	787197	80	1443	0	211200	1000000
2	3	18	806009	69	1237	1617	190930	1000000
3	3	18	562890	66	1187	1728	433997	1000000
4	3	18	993427	84	1402	1158	3761	1000000
5	1	18	340122	67	0	0	659811	1000000
6	3	18	691698	95	1484	1512	305021	1000000
7	2	18	101009	83	1169	0	897656	1000000
8	3	18	96359	97	1040	1872	900438	1000000
9	3	18	933592	61	1949	1840	62436	1000000
10	1	18	975860	70	0	0	24070	1000000
11	3	18	248750	68	1599	1303	748144	1000000
12	2	18	698218	75	1341	0	300291	1000000

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Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	2	19	229674	97	1745	0	568387	800000
2	3	19	399430	95	1197	1123	397965	800000
3	3	19	574367	98	1160	1114	223065	800000
4	3	19	487368	65	1570	1486	309381	800000
5	2	19	318289	77	1530	0	480027	800000
6	2	19	412458	50	1034	0	386408	800000
7	1	19	682167	93	0	0	117740	800000
8	2	19	84450	69	1552	0	713860	800000
9	2	19	305993	83	1000	0	492841	800000
10	3	19	168932	79	1453	1500	627878	800000
11	3	19	649617	71	1090	1326	147754	800000
12	3	19	442832	76	1500	1587	353853	800000
13	1	19	239808	65	0	0	560127	800000
14	2	19	607047	51	1105	0	191746	800000
15	3	19	696660	69	1767	1952	99414	800000

Type 5 #24 5502 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	1	18	661749	76	0	0	195317	857142
2	1	18	543309	77	0	0	313756	857142
3	1	18	422352	60	0	0	434730	857142
4	1	18	386682	91	0	0	470369	857142
5	3	18	387724	97	1425	1395	466307	857142
6	1	18	321482	52	0	0	535608	857142
7	3	18	367525	97	1610	1217	486499	857142
8	2	18	280261	85	1077	0	575634	857142
9	2	18	610482	76	1492	0	245016	857142
10	3	18	523445	84	1863	1275	330307	857142
11	2	18	628322	85	1631	0	227019	857142
12	1	18	350402	51	0	0	506689	857142
13	2	18	736959	72	1761	0	118278	857142
14	1	18	76386	91	0	0	780665	857142

Type 5 #25 5506 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	2	7	964920	97	1089	0	367130	1333333
2	2	7	366212	59	1048	0	965955	1333333
3	2	7	928718	96	1587	0	402836	1333333
4	2	7	1017646	84	1425	0	314094	1333333
5	1	7	594762	88	0	0	738483	1333333
6	3	7	588336	96	1155	1774	741780	1333333
7	3	7	1066072	96	1573	1485	263915	1333333
8	1	7	1279769	95	0	0	53469	1333333
9	2	7	563716	70	1233	0	768244	1333333

Type 5 #26 5506 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	2	8	643559	53	1653	0	354682	1000000
2	2	8	661005	91	1294	0	337519	1000000
3	1	8	340631	70	0	0	659299	1000000
4	1	8	465624	66	0	0	534310	1000000
5	3	8	524341	75	1410	1379	472645	1000000
6	2	8	442351	51	1581	0	555966	1000000
7	2	8	681111	100	1715	0	316974	1000000
8	1	8	712598	71	0	0	287331	1000000
9	2	8	978679	73	1122	0	20053	1000000
10	3	8	123768	57	1973	1894	872194	1000000
11	2	8	817753	75	1934	0	180163	1000000
12	3	8	620554	100	1382	1127	376637	1000000

Type 5 #27 5500 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	3	10	138081	93	1127	1681	608832	750000
2	1	10	560088	65	0	0	189847	750000
3	2	10	96992	98	1378	0	651434	750000
4	3	10	571534	78	1056	1885	175291	750000
5	3	10	67584	94	1232	1038	679864	750000
6	3	10	49422	81	1007	1813	697515	750000
7	3	10	658096	56	1045	1642	89049	750000
8	1	10	333198	93	0	0	416709	750000
9	1	10	563510	79	0	0	186411	750000
10	1	10	410102	75	0	0	339823	750000
11	3	10	735343	57	1616	1607	11263	750000
12	3	10	514802	82	1814	1094	232044	750000
13	2	10	451662	97	1447	0	296697	750000
14	2	10	133234	54	1171	0	615487	750000
15	2	10	595054	60	1121	0	153705	750000
16	2	10	200723	80	1944	0	547173	750000

Type 5 #28 5506 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	1	7	740778	53	0	0	182245	923076
2	1	7	882498	61	0	0	40517	923076
3	1	7	517664	57	0	0	405355	923076
4	1	7	800877	88	0	0	122111	923076
5	2	7	448034	81	1568	0	473312	923076
6	3	7	119187	59	1244	1042	801426	923076
7	1	7	847155	55	0	0	75866	923076
8	2	7	20492	71	1433	0	901009	923076
9	2	7	628613	66	1112	0	293219	923076
10	1	7	479864	61	0	0	443151	923076
11	1	7	794590	90	0	0	128396	923076
12	3	7	629408	52	1400	1244	290868	923076
13	1	7	701112	94	0	0	221870	923076

Type 5 #29 5503 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	2	16	673796	69	1442	0	657957	1333333
2	1	16	787404	87	0	0	545842	1333333
3	2	16	1226917	86	1003	0	105241	1333333
4	1	16	689092	69	0	0	644172	1333333
5	2	16	200527	69	1750	0	1130918	1333333
6	3	16	423750	78	1917	1266	906166	1333333
7	1	16	1211374	72	0	0	121887	1333333
8	1	16	366137	90	0	0	967106	1333333
9	3	16	828511	95	1030	1311	502196	1333333

Type 5 #30 5504 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	1	12	811479	86	0	0	279344	1090909
2	3	12	641905	63	1235	1519	446061	1090909
3	3	12	766648	76	1000	1543	321490	1090909
4	1	12	789157	100	0	0	301652	1090909
5	1	12	392740	97	0	0	698072	1090909
6	1	12	888785	69	0	0	202055	1090909
7	1	12	106498	91	0	0	984320	1090909
8	3	12	179397	93	1740	1727	907766	1090909
9	1	12	824711	76	0	0	266122	1090909
10	2	12	397921	65	1082	0	691776	1090909
11	1	12	720898	61	0	0	369950	1090909

Type 6 #1 [Back to Summary]									
#01-5606	#02-5288	#03-5493	#04-5544	#05-5346	#06-5440	#07-5264	#08-5602	#09-5548	#10-5456
#11-5286	#12-5391	#13-5477	#14-5680	#15-5616	#16-5312	#17-5298	#18-5404	#19-5295	#20-5640
#21-5698	#22-5615	#23-5564	#24-5471	#25-5626	#26-5721	#27-5385	#28-5334	#29-5444	#30-5277
#31-5583	#32-5289	#33-5258	#34-5415	#35-5494	#36-5308	#37-5652	#38-5452	#39-5263	#40-5648
#41-5498	#42-5420	#43-5363	#44-5339	#45-5694	#46-5464	#47-5356	#48-5388	#49-5330	#50-5448
#51-5710	#52-5605	#53-5437	#54-5250	#55-5542	#56-5716	#57-5454	#58-5274	#59-5646	#60-5354
#61-5309	#62-5658	#63-5412	#64-5524	#65-5598	#66-5723	#67-5384	#68-5318	#69-5443	#70-5562
#71-5392	#72-5574	#73-5395	#74-5376	#75-5401	#76-5534	#77-5511	#78-5487	#79-5509	#80-5419
#81-5624	#82-5251	#83-5257	#84-5724	#85-5297	#86-5702	#87-5581	#88-5261	#89-5600	#90-5506
#91-5584	#92-5631	#93-5535	#94-5642	#95-5592	#96-5565	#97-5265	#98-5568	#99-5467	#100-5693

Type 6 #2 [Back to Summary]									
#01-5328	#02-5288	#03-5671	#04-5493	#05-5307	#06-5389	#07-5466	#08-5311	#09-5582	#10-5259
#11-5463	#12-5694	#13-5499	#14-5482	#15-5455	#16-5303	#17-5650	#18-5409	#19-5477	#20-5620
#21-5396	#22-5373	#23-5441	#24-5664	#25-5705	#26-5487	#27-5291	#28-5479	#29-5513	#30-5560
#31-5524	#32-5663	#33-5267	#34-5535	#35-5337	#36-5583	#37-5305	#38-5491	#39-5669	#40-5631
#41-5490	#42-5521	#43-5402	#44-5591	#45-5286	#46-5612	#47-5380	#48-5300	#49-5433	#50-5542
#51-5640	#52-5579	#53-5342	#54-5570	#55-5553	#56-5683	#57-5575	#58-5256	#59-5515	#60-5550
#61-5348	#62-5715	#63-5529	#64-5273	#65-5461	#66-5525	#67-5679	#68-5692	#69-5392	#70-5602
#71-5724	#72-5408	#73-5459	#74-5571	#75-5376	#76-5606	#77-5696	#78-5577	#79-5627	#80-5341
#81-5352	#82-5716	#83-5290	#84-5695	#85-5643	#86-5665	#87-5568	#88-5420	#89-5706	#90-5375
#91-5254	#92-5296	#93-5699	#94-5367	#95-5532	#96-5497	#97-5713	#98-5378	#99-5369	#100-5484

Type 6 #3 [Back to Summary]									
#01-5659	#02-5415	#03-5629	#04-5558	#05-5536	#06-5475	#07-5361	#08-5495	#09-5437	#10-5673
#11-5711	#12-5722	#13-5354	#14-5418	#15-5444	#16-5351	#17-5670	#18-5556	#19-5350	#20-5523
#21-5675	#22-5501	#23-5708	#24-5263	#25-5592	#26-5677	#27-5432	#28-5341	#29-5283	#30-5602
#31-5611	#32-5562	#33-5452	#34-5383	#35-5405	#36-5660	#37-5331	#38-5457	#39-5403	#40-5413
#41-5552	#42-5321	#43-5709	#44-5281	#45-5391	#46-5257	#47-5662	#48-5529	#49-5646	#50-5429
#51-5551	#52-5404	#53-5274	#54-5574	#55-5538	#56-5401	#57-5431	#58-5616	#59-5690	#60-5584
#61-5291	#62-5266	#63-5464	#64-5560	#65-5307	#66-5393	#67-5517	#68-5696	#69-5260	#70-5507
#71-5270	#72-5466	#73-5396	#74-5663	#75-5694	#76-5599	#77-5516	#78-5674	#79-5594	#80-5583
#81-5262	#82-5628	#83-5420	#84-5578	#85-5302	#86-5455	#87-5537	#88-5606	#89-5570	#90-5252
#91-5480	#92-5443	#93-5490	#94-5544	#95-5370	#96-5533	#97-5590	#98-5394	#99-5701	#100-5721

Type 6 #4 [Back to Summary]									
#01-5464	#02-5693	#03-5518	#04-5391	#05-5410	#06-5338	#07-5257	#08-5335	#09-5604	#10-5664
#11-5613	#12-5481	#13-5270	#14-5356	#15-5573	#16-5386	#17-5571	#18-5608	#19-5507	#20-5578
#21-5583	#22-5640	#23-5373	#24-5258	#25-5277	#26-5548	#27-5697	#28-5577	#29-5536	#30-5408
#31-5261	#32-5367	#33-5702	#34-5599	#35-5371	#36-5296	#37-5362	#38-5281	#39-5423	#40-5686
#41-5450	#42-5455	#43-5252	#44-5635	#45-5366	#46-5250	#47-5429	#48-5392	#49-5700	#50-5715
#51-5689	#52-5707	#53-5619	#54-5375	#55-5394	#56-5550	#57-5566	#58-5510	#59-5364	#60-5588
#61-5369	#62-5411	#63-5522	#64-5448	#65-5654	#66-5496	#67-5504	#68-5400	#69-5710	#70-5528
#71-5275	#72-5542	#73-5441	#74-5546	#75-5380	#76-5379	#77-5637	#78-5469	#79-5621	#80-5279
#81-5374	#82-5559	#83-5606	#84-5551	#85-5443	#86-5283	#87-5475	#88-5582	#89-5461	#90-5544
#91-5451	#92-5580	#93-5643	#94-5557	#95-5569	#96-5295	#97-5659	#98-5530	#99-5705	#100-5597

Type 6 #5 [Back to Summary]									
#01-5470	#02-5277	#03-5403	#04-5422	#05-5691	#06-5398	#07-5520	#08-5322	#09-5716	#10-5260
#11-5640	#12-5354	#13-5617	#14-5341	#15-5464	#16-5536	#17-5528	#18-5697	#19-5253	#20-5625
#21-5273	#22-5651	#23-5662	#24-5415	#25-5329	#26-5424	#27-5628	#28-5604	#29-5702	#30-5337
#31-5449	#32-5355	#33-5489	#34-5275	#35-5531	#36-5349	#37-5407	#38-5436	#39-5583	#40-5293
#41-5488	#42-5401	#43-5588	#44-5452	#45-5630	#46-5347	#47-5683	#48-5549	#49-5344	#50-5285
#51-5495	#52-5682	#53-5532	#54-5327	#55-5572	#56-5547	#57-5339	#58-5713	#59-5345	#60-5519
#61-5498	#62-5637	#63-5348	#64-5631	#65-5541	#66-5540	#67-5592	#68-5594	#69-5537	#70-5368
#71-5381	#72-5342	#73-5369	#74-5686	#75-5392	#76-5599	#77-5310	#78-5466	#79-5511	#80-5708
#81-5463	#82-5328	#83-5513	#84-5669	#85-5573	#86-5487	#87-5553	#88-5410	#89-5430	#90-5710
#91-5257	#92-5419	#93-5335	#94-5309	#95-5524	#96-5577	#97-5302	#98-5681	#99-5638	#100-5338

Type 6 #6 [Back to Summary]									
#01-5480	#02-5340	#03-5260	#04-5704	#05-5628	#06-5397	#07-5568	#08-5567	#09-5662	#10-5698
#11-5478	#12-5598	#13-5450	#14-5359	#15-5304	#16-5412	#17-5373	#18-5401	#19-5308	#20-5297
#21-5715	#22-5434	#23-5417	#24-5552	#25-5356	#26-5686	#27-5254	#28-5300	#29-5416	#30-5543
#31-5541	#32-5357	#33-5556	#34-5424	#35-5481	#36-5374	#37-5321	#38-5535	#39-5288	#40-5429
#41-5647	#42-5705	#43-5474	#44-5459	#45-5485	#46-5384	#47-5689	#48-5703	#49-5259	#50-5360
#51-5455	#52-5631	#53-5623	#54-5589	#55-5349	#56-5296	#57-5651	#58-5438	#59-5599	#60-5667
#61-5394	#62-5521	#63-5406	#64-5371	#65-5410	#66-5375	#67-5293	#68-5280	#69-5611	#70-5658
#71-5341	#72-5569	#73-5363	#74-5612	#75-5381	#76-5261	#77-5685	#78-5683	#79-5324	#80-5699
#81-5723	#82-5274	#83-5290	#84-5307	#85-5344	#86-5635	#87-5467	#88-5691	#89-5322	#90-5440
#91-5457	#92-5613	#93-5660	#94-5350	#95-5279	#96-5386	#97-5553	#98-5353	#99-5299	#100-5364

Type 6 #7 [Back to Summary]									
#01-5337	#02-5657	#03-5345	#04-5325	#05-5267	#06-5611	#07-5519	#08-5263	#09-5461	#10-5343
#11-5338	#12-5691	#13-5364	#14-5623	#15-5669	#16-5372	#17-5480	#18-5353	#19-5280	#20-5500
#21-5641	#22-5328	#23-5689	#24-5432	#25-5463	#26-5456	#27-5627	#28-5262	#29-5579	#30-5724
#31-5437	#32-5586	#33-5638	#34-5694	#35-5608	#36-5314	#37-5654	#38-5688	#39-5287	#40-5455
#41-5370	#42-5445	#43-5485	#44-5703	#45-5346	#46-5484	#47-5505	#48-5290	#49-5406	#50-5635
#51-5621	#52-5449	#53-5319	#54-5527	#55-5439	#56-5258	#57-5695	#58-5639	#59-5588	#60-5539
#61-5710	#62-5508	#63-5409	#64-5462	#65-5628	#66-5475	#67-5301	#68-5393	#69-5259	#70-5600
#71-5436	#72-5516	#73-5313	#74-5551	#75-5383	#76-5447	#77-5571	#78-5711	#79-5336	#80-5702
#81-5675	#82-5583	#83-5580	#84-5664	#85-5352	#86-5712	#87-5517	#88-5366	#89-5503	#90-5598
#91-5348	#92-5265	#93-5351	#94-5474	#95-5472	#96-5581	#97-5284	#98-5272	#99-5322	#100-5592

Type 6 #8 [Back to Summary]									
#01-5429	#02-5359	#03-5279	#04-5526	#05-5451	#06-5362	#07-5386	#08-5497	#09-5394	#10-5717
#11-5413	#12-5707	#13-5556	#14-5613	#15-5587	#16-5371	#17-5648	#18-5469	#19-5357	#20-5644
#21-5682	#22-5662	#23-5611	#24-5381	#25-5506	#26-5423	#27-5414	#28-5565	#29-5324	#30-5521
#31-5410	#32-5551	#33-5638	#34-5468	#35-5523	#36-5569	#37-5558	#38-5305	#39-5465	#40-5713
#41-5577	#42-5269	#43-5695	#44-5509	#45-5438	#46-5358	#47-5434	#48-5459	#49-5614	#50-5342
#51-5663	#52-5541	#53-5634	#54-5398	#55-5635	#56-5489	#57-5470	#58-5622	#59-5265	#60-5275
#61-5673	#62-5544	#63-5412	#64-5597	#65-5554	#66-5586	#67-5314	#68-5330	#69-5334	#70-5267
#71-5537	#72-5591	#73-5251	#74-5369	#75-5315	#76-5666	#77-5693	#78-5348	#79-5669	#80-5391
#81-5712	#82-5679	#83-5678	#84-5703	#85-5581	#86-5593	#87-5639	#88-5481	#89-5552	#90-5281
#91-5341	#92-5658	#93-5289	#94-5437	#95-5291	#96-5280	#97-5575	#98-5346	#99-5681	#100-5574

Type 6 #9 [Back to Summary]									
#01-5294	#02-5350	#03-5372	#04-5593	#05-5535	#06-5323	#07-5541	#08-5513	#09-5334	#10-5698
#11-5524	#12-5370	#13-5679	#14-5601	#15-5287	#16-5717	#17-5590	#18-5438	#19-5262	#20-5684
#21-5668	#22-5558	#23-5499	#24-5307	#25-5646	#26-5604	#27-5546	#28-5533	#29-5330	#30-5286
#31-5336	#32-5594	#33-5398	#34-5340	#35-5352	#36-5615	#37-5557	#38-5337	#39-5421	#40-5508
#41-5304	#42-5383	#43-5405	#44-5586	#45-5481	#46-5703	#47-5706	#48-5418	#49-5404	#50-5298
#51-5419	#52-5393	#53-5338	#54-5720	#55-5635	#56-5462	#57-5574	#58-5313	#59-5670	#60-5655
#61-5498	#62-5253	#63-5437	#64-5295	#65-5617	#66-5656	#67-5696	#68-5589	#69-5500	#70-5402
#71-5413	#72-5505	#73-5267	#74-5476	#75-5630	#76-5542	#77-5410	#78-5641	#79-5551	#80-5669
#81-5622	#82-5381	#83-5385	#84-5278	#85-5598	#86-5666	#87-5506	#88-5401	#89-5432	#90-5613
#91-5285	#92-5491	#93-5389	#94-5486	#95-5259	#96-5301	#97-5673	#98-5357	#99-5697	#100-5552

Type 6 #10 [Back to Summary]									
#01-5255	#02-5364	#03-5639	#04-5250	#05-5614	#06-5633	#07-5373	#08-5582	#09-5340	#10-5344
#11-5303	#12-5659	#13-5489	#14-5252	#15-5285	#16-5372	#17-5594	#18-5407	#19-5427	#20-5673
#21-5401	#22-5546	#23-5418	#24-5613	#25-5362	#26-5643	#27-5369	#28-5507	#29-5469	#30-5578
#31-5597	#32-5304	#33-5671	#34-5724	#35-5665	#36-5509	#37-5468	#38-5386	#39-5393	#40-5691
#41-5544	#42-5649	#43-5311	#44-5334	#45-5560	#46-5356	#47-5257	#48-5392	#49-5458	#50-5619
#51-5437	#52-5519	#53-5657	#54-5276	#55-5409	#56-5440	#57-5679	#58-5278	#59-5612	#60-5700
#61-5518	#62-5590	#63-5368	#64-5487	#65-5474	#66-5723	#67-5713	#68-5491	#69-5313	#70-5501
#71-5624	#72-5460	#73-5264	#74-5459	#75-5378	#76-5477	#77-5488	#78-5327	#79-5301	#80-5256
#81-5636	#82-5703	#83-5300	#84-5572	#85-5400	#86-5330	#87-5376	#88-5645	#89-5570	#90-5483
#91-5558	#92-5444	#93-5500	#94-5421	#95-5426	#96-5681	#97-5535	#98-5552	#99-5589	#100-5564

Type 6 #11 [Back to Summary]									
#01-5368	#02-5491	#03-5326	#04-5680	#05-5718	#06-5696	#07-5505	#08-5447	#09-5622	#10-5653
#11-5672	#12-5594	#13-5699	#14-5605	#15-5310	#16-5535	#17-5539	#18-5516	#19-5337	#20-5390
#21-5599	#22-5317	#23-5641	#24-5554	#25-5665	#26-5429	#27-5688	#28-5565	#29-5282	#30-5419
#31-5664	#32-5656	#33-5460	#34-5459	#35-5607	#36-5391	#37-5621	#38-5342	#39-5573	#40-5418
#41-5543	#42-5645	#43-5267	#44-5636	#45-5522	#46-5685	#47-5461	#48-5603	#49-5351	#50-5602
#51-5380	#52-5259	#53-5454	#54-5440	#55-5684	#56-5295	#57-5566	#58-5488	#59-5262	#60-5528
#61-5257	#62-5659	#63-5407	#64-5445	#65-5713	#66-5265	#67-5378	#68-5481	#69-5723	#70-5637
#71-5631	#72-5439	#73-5663	#74-5633	#75-5560	#76-5676	#77-5299	#78-5252	#79-5278	#80-5706
#81-5692	#82-5328	#83-5458	#84-5396	#85-5288	#86-5650	#87-5442	#88-5271	#89-5499	#90-5555
#91-5538	#92-5376	#93-5332	#94-5296	#95-5411	#96-5604	#97-5480	#98-5536	#99-5648	#100-5508

Type 6 #12 [Back to Summary]									
#01-5553	#02-5705	#03-5611	#04-5436	#05-5695	#06-5661	#07-5318	#08-5543	#09-5599	#10-5256
#11-5723	#12-5567	#13-5464	#14-5281	#15-5564	#16-5652	#17-5444	#18-5262	#19-5412	#20-5306
#21-5537	#22-5363	#23-5706	#24-5409	#25-5345	#26-5505	#27-5366	#28-5621	#29-5474	#30-5680
#31-5441	#32-5482	#33-5324	#34-5488	#35-5401	#36-5712	#37-5440	#38-5275	#39-5428	#40-5348
#41-5588	#42-5628	#43-5390	#44-5500	#45-5565	#46-5700	#47-5638	#48-5299	#49-5453	#50-5487
#51-5413	#52-5473	#53-5376	#54-5598	#55-5696	#56-5437	#57-5722	#58-5450	#59-5339	#60-5435
#61-5548	#62-5419	#63-5317	#64-5644	#65-5538	#66-5493	#67-5498	#68-5702	#69-5603	#70-5579
#71-5460	#72-5415	#73-5557	#74-5311	#75-5439	#76-5637	#77-5692	#78-5457	#79-5572	#80-5361
#81-5592	#82-5309	#83-5411	#84-5711	#85-5517	#86-5689	#87-5347	#88-5449	#89-5514	#90-5683
#91-5713	#92-5716	#93-5654	#94-5714	#95-5523	#96-5403	#97-5554	#98-5468	#99-5676	#100-5316

Type 6 #13 [Back to Summary]									
#01-5456	#02-5660	#03-5422	#04-5597	#05-5274	#06-5718	#07-5639	#08-5313	#09-5405	#10-5310
#11-5468	#12-5516	#13-5604	#14-5699	#15-5570	#16-5482	#17-5253	#18-5334	#19-5378	#20-5567
#21-5387	#22-5294	#23-5441	#24-5640	#25-5590	#26-5471	#27-5489	#28-5566	#29-5514	#30-5277
#31-5331	#32-5476	#33-5499	#34-5500	#35-5637	#36-5658	#37-5618	#38-5546	#39-5689	#40-5523
#41-5303	#42-5289	#43-5296	#44-5450	#45-5469	#46-5444	#47-5362	#48-5684	#49-5392	#50-5292
#51-5411	#52-5475	#53-5345	#54-5368	#55-5664	#56-5413	#57-5472	#58-5513	#59-5257	#60-5535
#61-5485	#62-5325	#63-5531	#64-5379	#65-5707	#66-5717	#67-5268	#68-5356	#69-5316	#70-5643
#71-5594	#72-5432	#73-5372	#74-5584	#75-5521	#76-5348	#77-5724	#78-5711	#79-5418	#80-5395
#81-5358	#82-5537	#83-5427	#84-5477	#85-5596	#86-5586	#87-5382	#88-5381	#89-5568	#90-5480
#91-5438	#92-5355	#93-5547	#94-5409	#95-5288	#96-5704	#97-5498	#98-5646	#99-5478	#100-5487

Type 6 #14 [Back to Summary]									
#01-5428	#02-5256	#03-5620	#04-5477	#05-5426	#06-5705	#07-5352	#08-5489	#09-5578	#10-5563
#11-5411	#12-5482	#13-5340	#14-5591	#15-5421	#16-5677	#17-5625	#18-5301	#19-5514	#20-5372
#21-5587	#22-5614	#23-5519	#24-5562	#25-5451	#26-5481	#27-5621	#28-5688	#29-5537	#30-5533
#31-5581	#32-5328	#33-5488	#34-5664	#35-5690	#36-5346	#37-5635	#38-5672	#39-5291	#40-5608
#41-5472	#42-5617	#43-5523	#44-5723	#45-5309	#46-5680	#47-5265	#48-5671	#49-5711	#50-5336
#51-5327	#52-5434	#53-5376	#54-5347	#55-5613	#56-5536	#57-5457	#58-5304	#59-5273	#60-5666
#61-5334	#62-5390	#63-5674	#64-5290	#65-5707	#66-5329	#67-5716	#68-5401	#69-5623	#70-5319
#71-5289	#72-5675	#73-5258	#74-5626	#75-5612	#76-5693	#77-5338	#78-5515	#79-5498	#80-5494
#81-5462	#82-5663	#83-5700	#84-5443	#85-5448	#86-5391	#87-5673	#88-5388	#89-5294	#90-5398
#91-5603	#92-5570	#93-5643	#94-5351	#95-5520	#96-5335	#97-5660	#98-5479	#99-5264	#100-5706

Type 6 #15 [Back to Summary]									
#01-5689	#02-5587	#03-5297	#04-5638	#05-5296	#06-5378	#07-5431	#08-5476	#09-5454	#10-5649
#11-5452	#12-5667	#13-5529	#14-5501	#15-5449	#16-5389	#17-5413	#18-5478	#19-5565	#20-5566
#21-5373	#22-5576	#23-5353	#24-5477	#25-5433	#26-5440	#27-5278	#28-5633	#29-5350	#30-5535
#31-5274	#32-5581	#33-5507	#34-5522	#35-5536	#36-5607	#37-5624	#38-5311	#39-5399	#40-5324
#41-5690	#42-5451	#43-5665	#44-5369	#45-5674	#46-5671	#47-5294	#48-5394	#49-5623	#50-5380
#51-5648	#52-5441	#53-5645	#54-5423	#55-5579	#56-5360	#57-5484	#58-5547	#59-5455	#60-5582
#61-5342	#62-5523	#63-5367	#64-5651	#65-5622	#66-5601	#67-5409	#68-5257	#69-5698	#70-5572
#71-5494	#72-5346	#73-5320	#74-5489	#75-5604	#76-5655	#77-5637	#78-5711	#79-5528	#80-5488
#81-5390	#82-5609	#83-5258	#84-5700	#85-5610	#86-5555	#87-5660	#88-5323	#89-5670	#90-5412
#91-5365	#92-5319	#93-5583	#94-5543	#95-5706	#96-5408	#97-5325	#98-5264	#99-5471	#100-5314

Type 6 #16 [Back to Summary]									
#01-5506	#02-5287	#03-5427	#04-5301	#05-5614	#06-5545	#07-5367	#08-5407	#09-5550	#10-5654
#11-5453	#12-5497	#13-5265	#14-5689	#15-5435	#16-5465	#17-5515	#18-5400	#19-5286	#20-5314
#21-5669	#22-5336	#23-5319	#24-5529	#25-5452	#26-5419	#27-5496	#28-5505	#29-5514	#30-5439
#31-5576	#32-5624	#33-5485	#34-5461	#35-5710	#36-5356	#37-5431	#38-5684	#39-5332	#40-5315
#41-5443	#42-5507	#43-5511	#44-5261	#45-5692	#46-5604	#47-5308	#48-5623	#49-5362	#50-5491
#51-5630	#52-5655	#53-5705	#54-5409	#55-5376	#56-5420	#57-5696	#58-5628	#59-5577	#60-5445
#61-5297	#62-5592	#63-5622	#64-5359	#65-5331	#66-5561	#67-5260	#68-5536	#69-5706	#70-5327
#71-5280	#72-5559	#73-5320	#74-5695	#75-5598	#76-5415	#77-5558	#78-5303	#79-5565	#80-5580
#81-5360	#82-5602	#83-5390	#84-5270	#85-5539	#86-5646	#87-5644	#88-5324	#89-5337	#90-5540
#91-5388	#92-5532	#93-5363	#94-5616	#95-5266	#96-5582	#97-5608	#98-5395	#99-5660	#100-5384

Type 6 #17 [Back to Summary]									
#01-5587	#02-5502	#03-5641	#04-5284	#05-5456	#06-5321	#07-5583	#08-5258	#09-5540	#10-5686
#11-5592	#12-5640	#13-5316	#14-5723	#15-5337	#16-5425	#17-5449	#18-5601	#19-5547	#20-5412
#21-5642	#22-5665	#23-5446	#24-5415	#25-5664	#26-5475	#27-5443	#28-5428	#29-5679	#30-5269
#31-5535	#32-5406	#33-5371	#34-5426	#35-5713	#36-5578	#37-5683	#38-5353	#39-5536	#40-5465
#41-5307	#42-5630	#43-5507	#44-5368	#45-5670	#46-5472	#47-5463	#48-5357	#49-5526	#50-5565
#51-5374	#52-5253	#53-5569	#54-5491	#55-5467	#56-5648	#57-5301	#58-5474	#59-5341	#60-5705
#61-5602	#62-5398	#63-5302	#64-5520	#65-5394	#66-5429	#67-5517	#68-5615	#69-5260	#70-5482
#71-5468	#72-5340	#73-5310	#74-5331	#75-5354	#76-5257	#77-5405	#78-5326	#79-5479	#80-5444
#81-5264	#82-5335	#83-5632	#84-5365	#85-5621	#86-5541	#87-5571	#88-5612	#89-5689	#90-5314
#91-5531	#92-5461	#93-5263	#94-5562	#95-5595	#96-5636	#97-5581	#98-5712	#99-5700	#100-5493

Type 6 #18 [Back to Summary]									
#01-5680	#02-5574	#03-5350	#04-5297	#05-5348	#06-5283	#07-5666	#08-5486	#09-5388	#10-5460
#11-5492	#12-5702	#13-5252	#14-5626	#15-5692	#16-5516	#17-5499	#18-5664	#19-5625	#20-5588
#21-5587	#22-5632	#23-5651	#24-5669	#25-5676	#26-5258	#27-5331	#28-5475	#29-5465	#30-5444
#31-5403	#32-5417	#33-5353	#34-5707	#35-5484	#36-5411	#37-5710	#38-5577	#39-5266	#40-5580
#41-5590	#42-5328	#43-5468	#44-5473	#45-5547	#46-5546	#47-5451	#48-5358	#49-5591	#50-5321
#51-5380	#52-5635	#53-5332	#54-5359	#55-5622	#56-5295	#57-5645	#58-5405	#59-5343	#60-5338
#61-5677	#62-5436	#63-5267	#64-5661	#65-5303	#66-5319	#67-5597	#68-5271	#69-5392	#70-5529
#71-5531	#72-5642	#73-5650	#74-5293	#75-5723	#76-5509	#77-5414	#78-5428	#79-5371	#80-5378
#81-5526	#82-5698	#83-5610	#84-5396	#85-5314	#86-5496	#87-5336	#88-5719	#89-5330	#90-5442
#91-5494	#92-5554	#93-5488	#94-5649	#95-5629	#96-5406	#97-5310	#98-5535	#99-5424	#100-5480

Type 6 #19 [Back to Summary]									
#01-5677	#02-5435	#03-5694	#04-5311	#05-5518	#06-5464	#07-5709	#08-5288	#09-5361	#10-5366
#11-5608	#12-5470	#13-5285	#14-5692	#15-5538	#16-5703	#17-5548	#18-5596	#19-5594	#20-5531
#21-5710	#22-5601	#23-5661	#24-5671	#25-5286	#26-5700	#27-5404	#28-5250	#29-5385	#30-5564
#31-5444	#32-5603	#33-5255	#34-5613	#35-5422	#36-5339	#37-5253	#38-5549	#39-5597	#40-5572
#41-5504	#42-5298	#43-5607	#44-5687	#45-5551	#46-5273	#47-5510	#48-5511	#49-5362	#50-5651
#51-5576	#52-5436	#53-5657	#54-5612	#55-5487	#56-5324	#57-5490	#58-5270	#59-5276	#60-5535
#61-5309	#62-5711	#63-5627	#64-5512	#65-5642	#66-5256	#67-5458	#68-5395	#69-5514	#70-5443
#71-5699	#72-5722	#73-5721	#74-5272	#75-5278	#76-5659	#77-5718	#78-5693	#79-5369	#80-5266
#81-5430	#82-5610	#83-5606	#84-5452	#85-5708	#86-5258	#87-5663	#88-5367	#89-5371	#90-5350
#91-5560	#92-5704	#93-5520	#94-5315	#95-5509	#96-5519	#97-5392	#98-5342	#99-5301	#100-5546

Type 6 #20 [Back to Summary]									
#01-5532	#02-5369	#03-5723	#04-5638	#05-5676	#06-5581	#07-5442	#08-5639	#09-5586	#10-5553
#11-5327	#12-5519	#13-5623	#14-5258	#15-5353	#16-5415	#17-5345	#18-5420	#19-5528	#20-5637
#21-5307	#22-5347	#23-5276	#24-5418	#25-5605	#26-5717	#27-5446	#28-5661	#29-5475	#30-5473
#31-5517	#32-5628	#33-5653	#34-5540	#35-5455	#36-5314	#37-5614	#38-5698	#39-5501	#40-5377
#41-5535	#42-5278	#43-5499	#44-5538	#45-5271	#46-5294	#47-5332	#48-5516	#49-5681	#50-5354
#51-5428	#52-5699	#53-5536	#54-5382	#55-5490	#56-5434	#57-5340	#58-5559	#59-5284	#60-5685
#61-5388	#62-5506	#63-5412	#64-5364	#65-5286	#66-5425	#67-5597	#68-5331	#69-5527	#70-5288
#71-5526	#72-5374	#73-5643	#74-5401	#75-5351	#76-5279	#77-5574	#78-5465	#79-5397	#80-5566
#81-5640	#82-5655	#83-5707	#84-5373	#85-5295	#86-5551	#87-5343	#88-5521	#89-5300	#90-5268
#91-5701	#92-5312	#93-5666	#94-5552	#95-5715	#96-5277	#97-5592	#98-5393	#99-5502	#100-5577

Type 6 #21 [Back to Summary]									
#01-5424	#02-5724	#03-5716	#04-5640	#05-5551	#06-5305	#07-5308	#08-5384	#09-5280	#10-5464
#11-5591	#12-5603	#13-5409	#14-5449	#15-5298	#16-5463	#17-5527	#18-5291	#19-5321	#20-5468
#21-5332	#22-5328	#23-5283	#24-5508	#25-5316	#26-5470	#27-5436	#28-5348	#29-5413	#30-5325
#31-5419	#32-5435	#33-5686	#34-5554	#35-5389	#36-5638	#37-5660	#38-5314	#39-5549	#40-5712
#41-5493	#42-5684	#43-5494	#44-5566	#45-5406	#46-5349	#47-5627	#48-5471	#49-5503	#50-5510
#51-5482	#52-5553	#53-5319	#54-5284	#55-5498	#56-5353	#57-5692	#58-5466	#59-5584	#60-5341
#61-5602	#62-5690	#63-5699	#64-5681	#65-5295	#66-5411	#67-5643	#68-5589	#69-5311	#70-5388
#71-5534	#72-5462	#73-5477	#74-5334	#75-5702	#76-5372	#77-5567	#78-5448	#79-5352	#80-5693
#81-5569	#82-5691	#83-5576	#84-5631	#85-5572	#86-5596	#87-5363	#88-5650	#89-5301	#90-5281
#91-5668	#92-5444	#93-5459	#94-5456	#95-5368	#96-5526	#97-5710	#98-5532	#99-5517	#100-5719

Type 6 #22 [Back to Summary]									
#01-5428	#02-5288	#03-5402	#04-5359	#05-5699	#06-5265	#07-5326	#08-5713	#09-5310	#10-5374
#11-5514	#12-5495	#13-5366	#14-5611	#15-5502	#16-5629	#17-5369	#18-5318	#19-5368	#20-5434
#21-5299	#22-5718	#23-5535	#24-5275	#25-5448	#26-5336	#27-5252	#28-5264	#29-5688	#30-5436
#31-5392	#32-5284	#33-5659	#34-5358	#35-5521	#36-5531	#37-5548	#38-5468	#39-5657	#40-5559
#41-5522	#42-5379	#43-5593	#44-5661	#45-5504	#46-5430	#47-5333	#48-5579	#49-5682	#50-5466
#51-5409	#52-5642	#53-5417	#54-5334	#55-5671	#56-5441	#57-5487	#58-5381	#59-5641	#60-5616
#61-5261	#62-5312	#63-5274	#64-5606	#65-5710	#66-5483	#67-5564	#68-5259	#69-5349	#70-5700
#71-5341	#72-5631	#73-5391	#74-5542	#75-5638	#76-5652	#77-5384	#78-5597	#79-5503	#80-5269
#81-5253	#82-5411	#83-5309	#84-5482	#85-5278	#86-5475	#87-5596	#88-5580	#89-5416	#90-5332
#91-5296	#92-5424	#93-5553	#94-5295	#95-5549	#96-5463	#97-5355	#98-5711	#99-5675	#100-5276

Type 6 #23 [Back to Summary]									
#01-5591	#02-5321	#03-5478	#04-5708	#05-5374	#06-5500	#07-5507	#08-5602	#09-5418	#10-5267
#11-5306	#12-5612	#13-5603	#14-5625	#15-5613	#16-5581	#17-5253	#18-5520	#19-5578	#20-5489
#21-5610	#22-5709	#23-5571	#24-5266	#25-5658	#26-5649	#27-5334	#28-5344	#29-5720	#30-5430
#31-5548	#32-5391	#33-5650	#34-5473	#35-5398	#36-5657	#37-5648	#38-5323	#39-5352	#40-5496
#41-5687	#42-5717	#43-5404	#44-5388	#45-5273	#46-5406	#47-5534	#48-5645	#49-5402	#50-5681
#51-5449	#52-5549	#53-5376	#54-5429	#55-5383	#56-5605	#57-5468	#58-5459	#59-5298	#60-5450
#61-5414	#62-5412	#63-5604	#64-5712	#65-5440	#66-5637	#67-5685	#68-5367	#69-5472	#70-5679
#71-5660	#72-5653	#73-5416	#74-5326	#75-5527	#76-5615	#77-5546	#78-5432	#79-5718	#80-5498
#81-5353	#82-5407	#83-5664	#84-5285	#85-5702	#86-5724	#87-5262	#88-5465	#89-5336	#90-5514
#91-5433	#92-5436	#93-5274	#94-5621	#95-5329	#96-5523	#97-5356	#98-5417	#99-5673	#100-5351

Type 6 #24 [Back to Summary]									
#01-5445	#02-5413	#03-5424	#04-5449	#05-5272	#06-5524	#07-5382	#08-5298	#09-5627	#10-5496
#11-5307	#12-5287	#13-5471	#14-5528	#15-5342	#16-5253	#17-5478	#18-5571	#19-5257	#20-5443
#21-5629	#22-5472	#23-5284	#24-5683	#25-5502	#26-5475	#27-5635	#28-5523	#29-5722	#30-5256
#31-5511	#32-5384	#33-5487	#34-5613	#35-5309	#36-5674	#37-5712	#38-5465	#39-5267	#40-5432
#41-5594	#42-5691	#43-5569	#44-5576	#45-5460	#46-5396	#47-5695	#48-5477	#49-5539	#50-5332
#51-5302	#52-5525	#53-5410	#54-5489	#55-5457	#56-5702	#57-5378	#58-5467	#59-5676	#60-5533
#61-5619	#62-5593	#63-5301	#64-5622	#65-5713	#66-5649	#67-5534	#68-5584	#69-5464	#70-5390
#71-5266	#72-5260	#73-5555	#74-5553	#75-5579	#76-5660	#77-5630	#78-5429	#79-5468	#80-5349
#81-5504	#82-5401	#83-5709	#84-5644	#85-5681	#86-5711	#87-5694	#88-5724	#89-5394	#90-5328
#91-5543	#92-5494	#93-5514	#94-5456	#95-5544	#96-5250	#97-5640	#98-5669	#99-5585	#100-5537

Type 6 #25 [Back to Summary]									
#01-5592	#02-5362	#03-5255	#04-5390	#05-5315	#06-5291	#07-5693	#08-5587	#09-5634	#10-5524
#11-5326	#12-5670	#13-5720	#14-5574	#15-5274	#16-5460	#17-5605	#18-5384	#19-5662	#20-5250
#21-5676	#22-5528	#23-5430	#24-5391	#25-5576	#26-5493	#27-5469	#28-5336	#29-5259	#30-5572
#31-5270	#32-5680	#33-5573	#34-5656	#35-5481	#36-5389	#37-5403	#38-5567	#39-5577	#40-5641
#41-5271	#42-5359	#43-5342	#44-5604	#45-5254	#46-5597	#47-5499	#48-5664	#49-5441	#50-5332
#51-5373	#52-5507	#53-5262	#54-5584	#55-5588	#56-5314	#57-5658	#58-5593	#59-5535	#60-5542
#61-5544	#62-5611	#63-5578	#64-5310	#65-5502	#66-5372	#67-5347	#68-5313	#69-5348	#70-5616
#71-5309	#72-5287	#73-5529	#74-5276	#75-5708	#76-5563	#77-5442	#78-5550	#79-5393	#80-5707
#81-5719	#82-5525	#83-5624	#84-5652	#85-5452	#86-5483	#87-5672	#88-5716	#89-5324	#90-5420
#91-5455	#92-5531	#93-5285	#94-5284	#95-5350	#96-5394	#97-5501	#98-5283	#99-5354	#100-5613

Type 6 #26 [Back to Summary]									
#01-5500	#02-5437	#03-5569	#04-5555	#05-5271	#06-5335	#07-5700	#08-5713	#09-5602	#10-5268
#11-5597	#12-5355	#13-5455	#14-5554	#15-5548	#16-5265	#17-5711	#18-5652	#19-5580	#20-5270
#21-5424	#22-5353	#23-5716	#24-5648	#25-5403	#26-5496	#27-5252	#28-5498	#29-5651	#30-5568
#31-5314	#32-5408	#33-5454	#34-5502	#35-5456	#36-5531	#37-5685	#38-5316	#39-5629	#40-5367
#41-5511	#42-5680	#43-5364	#44-5302	#45-5545	#46-5351	#47-5329	#48-5451	#49-5458	#50-5328
#51-5399	#52-5579	#53-5425	#54-5327	#55-5433	#56-5397	#57-5448	#58-5644	#59-5401	#60-5503
#61-5333	#62-5453	#63-5308	#64-5283	#65-5681	#66-5441	#67-5626	#68-5678	#69-5350	#70-5269
#71-5303	#72-5647	#73-5275	#74-5471	#75-5488	#76-5476	#77-5714	#78-5664	#79-5358	#80-5301
#81-5422	#82-5532	#83-5294	#84-5581	#85-5423	#86-5470	#87-5708	#88-5380	#89-5322	#90-5310
#91-5341	#92-5293	#93-5639	#94-5387	#95-5285	#96-5315	#97-5623	#98-5339	#99-5357	#100-5370

Type 6 #27 [Back to Summary]									
#01-5451	#02-5375	#03-5352	#04-5438	#05-5274	#06-5480	#07-5555	#08-5686	#09-5572	#10-5688
#11-5408	#12-5508	#13-5540	#14-5346	#15-5327	#16-5534	#17-5406	#18-5463	#19-5590	#20-5469
#21-5454	#22-5500	#23-5611	#24-5290	#25-5659	#26-5259	#27-5257	#28-5619	#29-5428	#30-5420
#31-5577	#32-5635	#33-5568	#34-5720	#35-5578	#36-5294	#37-5421	#38-5584	#39-5548	#40-5669
#41-5637	#42-5273	#43-5528	#44-5357	#45-5626	#46-5552	#47-5477	#48-5538	#49-5304	#50-5474
#51-5632	#52-5403	#53-5466	#54-5606	#55-5633	#56-5680	#57-5490	#58-5310	#59-5502	#60-5264
#61-5465	#62-5664	#63-5506	#64-5394	#65-5361	#66-5499	#67-5670	#68-5545	#69-5495	#70-5284
#71-5358	#72-5553	#73-5643	#74-5649	#75-5560	#76-5424	#77-5696	#78-5496	#79-5385	#80-5349
#81-5509	#82-5436	#83-5565	#84-5682	#85-5516	#86-5407	#87-5405	#88-5692	#89-5334	#90-5623
#91-5524	#92-5354	#93-5322	#94-5533	#95-5442	#96-5702	#97-5486	#98-5373	#99-5719	#100-5368

Type 6 #28 [Back to Summary]									
#01-5611	#02-5658	#03-5292	#04-5268	#05-5365	#06-5330	#07-5496	#08-5549	#09-5296	#10-5450
#11-5710	#12-5717	#13-5643	#14-5399	#15-5481	#16-5277	#17-5350	#18-5554	#19-5607	#20-5674
#21-5338	#22-5701	#23-5455	#24-5598	#25-5483	#26-5250	#27-5472	#28-5355	#29-5446	#30-5584
#31-5663	#32-5561	#33-5507	#34-5267	#35-5467	#36-5574	#37-5400	#38-5542	#39-5564	#40-5434
#41-5644	#42-5590	#43-5641	#44-5616	#45-5635	#46-5530	#47-5437	#48-5655	#49-5303	#50-5417
#51-5597	#52-5665	#53-5494	#54-5294	#55-5286	#56-5632	#57-5449	#58-5412	#59-5510	#60-5363
#61-5579	#62-5389	#63-5349	#64-5431	#65-5511	#66-5394	#67-5460	#68-5627	#69-5659	#70-5631
#71-5601	#72-5526	#73-5714	#74-5415	#75-5280	#76-5469	#77-5310	#78-5560	#79-5691	#80-5677
#81-5529	#82-5539	#83-5300	#84-5274	#85-5711	#86-5251	#87-5317	#88-5458	#89-5705	#90-5556
#91-5369	#92-5707	#93-5283	#94-5444	#95-5577	#96-5498	#97-5485	#98-5453	#99-5353	#100-5487

Type 6 #29 [Back to Summary]									
#01-5323	#02-5541	#03-5724	#04-5395	#05-5544	#06-5318	#07-5673	#08-5327	#09-5263	#10-5539
#11-5574	#12-5615	#13-5452	#14-5562	#15-5556	#16-5288	#17-5343	#18-5328	#19-5449	#20-5509
#21-5335	#22-5723	#23-5645	#24-5348	#25-5511	#26-5619	#27-5495	#28-5514	#29-5568	#30-5502
#31-5708	#32-5580	#33-5456	#34-5446	#35-5602	#36-5716	#37-5542	#38-5631	#39-5453	#40-5642
#41-5299	#42-5711	#43-5441	#44-5412	#45-5707	#46-5476	#47-5501	#48-5438	#49-5618	#50-5537
#51-5403	#52-5406	#53-5257	#54-5571	#55-5399	#56-5320	#57-5623	#58-5630	#59-5607	#60-5652
#61-5546	#62-5402	#63-5480	#64-5478	#65-5554	#66-5719	#67-5397	#68-5251	#69-5684	#70-5563
#71-5463	#72-5429	#73-5593	#74-5527	#75-5451	#76-5340	#77-5522	#78-5472	#79-5355	#80-5278
#81-5358	#82-5296	#83-5625	#84-5272	#85-5344	#86-5548	#87-5573	#88-5616	#89-5293	#90-5524
#91-5346	#92-5646	#93-5270	#94-5529	#95-5342	#96-5622	#97-5474	#98-5689	#99-5588	#100-5713

Type 6 #30 [Back to Summary]									
#01-5324	#02-5505	#03-5485	#04-5304	#05-5322	#06-5697	#07-5544	#08-5451	#09-5362	#10-5310
#11-5524	#12-5393	#13-5521	#14-5580	#15-5541	#16-5497	#17-5514	#18-5461	#19-5388	#20-5258
#21-5403	#22-5522	#23-5681	#24-5409	#25-5467	#26-5559	#27-5416	#28-5311	#29-5439	#30-5572
#31-5597	#32-5567	#33-5623	#34-5367	#35-5684	#36-5586	#37-5542	#38-5570	#39-5677	#40-5371
#41-5253	#42-5365	#43-5502	#44-5711	#45-5255	#46-5679	#47-5370	#48-5420	#49-5718	#50-5576
#51-5351	#52-5267	#53-5553	#54-5583	#55-5566	#56-5531	#57-5551	#58-5327	#59-5565	#60-5490
#61-5530	#62-5477	#63-5263	#64-5518	#65-5442	#66-5687	#67-5495	#68-5398	#69-5627	#70-5683
#71-5682	#72-5669	#73-5506	#74-5266	#75-5256	#76-5285	#77-5269	#78-5698	#79-5402	#80-5510
#81-5430	#82-5722	#83-5319	#84-5600	#85-5457	#86-5582	#87-5264	#88-5294	#89-5533	#90-5399
#91-5284	#92-5460	#93-5252	#94-5432	#95-5577	#96-5494	#97-5355	#98-5708	#99-5517	#100-5298

Type 5 #1 5530 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	3	6	608418	92	1091	1237	138978	750000
2	3	6	302038	61	1770	1884	444125	750000
3	2	6	389819	81	1112	0	358907	750000
4	2	6	579314	82	1776	0	168746	750000
5	2	6	298909	52	1123	0	449864	750000
6	2	6	650330	95	1270	0	98210	750000
7	2	6	322686	58	1296	0	425902	750000
8	1	6	122029	76	0	0	627895	750000
9	1	6	10551	57	0	0	739392	750000
10	2	6	375456	57	1956	0	372474	750000
11	2	6	702768	66	1853	0	45247	750000
12	1	6	85665	65	0	0	664270	750000
13	3	6	644286	71	1214	1331	102956	750000
14	1	6	242263	51	0	0	507686	750000
15	2	6	575874	52	1507	0	172515	750000
16	2	6	30645	97	1632	0	717529	750000

Type 5 #2 5561 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	3	17	352233	50	1496	1230	567967	923076
2	2	17	874385	95	1851	0	46650	923076
3	3	17	702938	82	1649	1812	216431	923076
4	2	17	204354	96	1447	0	717083	923076
5	1	17	490861	63	0	0	432152	923076
6	1	17	433036	100	0	0	489940	923076
7	3	17	172737	51	1941	1696	746549	923076
8	2	17	609719	57	1189	0	312054	923076
9	2	17	44025	63	1322	0	877603	923076
10	3	17	746571	68	1229	1929	173143	923076
11	1	17	438614	98	0	0	484364	923076
12	3	17	367004	61	1216	1602	553071	923076
13	1	17	846650	69	0	0	76357	923076

Type 5 #3 5498 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	2	14	1447954	94	1786	0	50072	1500000
2	3	14	1147434	80	1968	1542	348816	1500000
3	3	14	1278231	51	1160	1758	218698	1500000
4	3	14	1417052	63	1302	1941	79516	1500000
5	1	14	1273167	66	0	0	226767	1500000
6	3	14	1323786	55	1042	1886	173121	1500000
7	3	14	762201	68	1402	1158	735035	1500000
8	1	14	90724	82	0	0	1409194	1500000

Type 5 #4 5495 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	3	7	666161	54	1794	1367	330516	1000000
2	3	7	912477	97	1524	1037	84671	1000000
3	3	7	790364	93	1499	1037	206821	1000000
4	1	7	839977	90	0	0	159933	1000000
5	2	7	691533	59	1088	0	307261	1000000
6	2	7	513330	89	1630	0	484862	1000000
7	2	7	92187	80	1177	0	906476	1000000
8	1	7	510063	57	0	0	489880	1000000
9	2	7	254698	82	1454	0	743684	1000000
10	3	7	826588	70	1561	1129	170512	1000000
11	1	7	97986	76	0	0	901938	1000000
12	3	7	330692	81	1278	1076	666711	1000000

Type 5 #5 5496 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	3	9	13594	78	1945	1922	982305	1000000
2	1	9	908245	94	0	0	91661	1000000
3	3	9	648575	92	1877	1295	347977	1000000
4	1	9	13931	94	0	0	985975	1000000
5	3	9	63808	54	1216	1481	933333	1000000
6	1	9	741718	59	0	0	258223	1000000
7	1	9	535269	92	0	0	464639	1000000
8	3	9	161151	50	1184	1551	835964	1000000
9	1	9	826952	96	0	0	172952	1000000
10	3	9	497270	72	1200	1681	499633	1000000
11	3	9	595722	74	1241	1366	401449	1000000
12	2	9	818198	73	1961	0	179695	1000000

Type 5 #6 5560 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	2	20	363287	79	1955	0	234600	600000
2	3	20	233189	59	1779	1869	362986	600000
3	2	20	487255	76	1864	0	110729	600000
4	3	20	41256	50	1636	1596	555362	600000
5	1	20	355293	84	0	0	244623	600000
6	2	20	257967	67	1129	0	340770	600000
7	1	20	515718	96	0	0	84186	600000
8	1	20	78275	70	0	0	521655	600000
9	3	20	564890	53	1588	1596	31767	600000
10	3	20	433731	72	1724	1304	163025	600000
11	2	20	164063	58	1334	0	434487	600000
12	2	20	60484	64	1745	0	537643	600000
13	3	20	429989	83	1502	1756	166504	600000
14	1	20	241479	50	0	0	358471	600000
15	3	20	282779	94	1851	1532	313556	600000
16	3	20	23135	87	1892	1145	573567	600000
17	3	20	21121	82	1971	1870	574792	600000
18	2	20	68794	83	1132	0	529908	600000
19	3	20	349434	61	1939	1093	247351	600000
20	1	20	538225	71	0	0	61704	600000

Type 5 #7 5530 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	3	13	156195	87	1548	1853	506809	666666
2	3	13	90981	91	1862	1786	571764	666666
3	3	13	505013	71	1757	1269	158414	666666
4	1	13	253303	65	0	0	413298	666666
5	1	13	486953	57	0	0	179656	666666
6	1	13	475778	57	0	0	190831	666666
7	2	13	521888	78	1781	0	142841	666666
8	3	13	288989	79	1436	1244	374760	666666
9	1	13	62319	61	0	0	604286	666666
10	3	13	281659	71	1295	1137	382362	666666
11	3	13	453110	57	1500	1549	210336	666666
12	2	13	434156	53	1142	0	231262	666666
13	3	13	324856	57	1400	1930	338309	666666
14	2	13	343172	93	1685	0	321623	666666
15	3	13	35830	94	1857	1146	627551	666666
16	3	13	191842	65	1855	1006	471768	666666
17	2	13	241154	71	1280	0	424090	666666
18	1	13	68212	59	0	0	598395	666666

Type 5 #8 5530 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	2	7	802704	97	1656	0	52588	857142
2	2	7	593068	65	1426	0	262518	857142
3	1	7	225879	75	0	0	631188	857142
4	3	7	718398	61	1645	1547	135369	857142
5	2	7	524902	53	1533	0	330601	857142
6	2	7	72317	85	1413	0	783242	857142
7	2	7	164688	53	1720	0	690628	857142
8	2	7	801676	60	1713	0	53633	857142
9	1	7	226943	100	0	0	630099	857142
10	1	7	87091	87	0	0	769964	857142
11	1	7	608850	56	0	0	248236	857142
12	1	7	463689	82	0	0	393371	857142
13	2	7	554208	69	1681	0	301115	857142
14	3	7	661383	53	1548	1091	192961	857142

Type 5 #9 5530 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	3	7	114644	80	1520	1429	482167	600000
2	3	7	566077	83	1605	1147	30922	600000
3	3	7	581317	92	1089	1239	16079	600000
4	3	7	549664	51	1950	1289	46944	600000
5	1	7	581256	58	0	0	18686	600000
6	2	7	123526	51	1801	0	474571	600000
7	2	7	66801	65	1040	0	532029	600000
8	1	7	463195	59	0	0	136746	600000
9	1	7	362227	88	0	0	237685	600000
10	1	7	130499	68	0	0	469433	600000
11	2	7	127329	75	1213	0	471308	600000
12	2	7	57215	62	1601	0	541060	600000
13	1	7	345134	96	0	0	254770	600000
14	2	7	326341	56	1740	0	271807	600000
15	1	7	503772	55	0	0	96173	600000
16	2	7	362118	61	1180	0	236580	600000
17	1	7	302165	75	0	0	297760	600000
18	1	7	184649	58	0	0	415293	600000
19	3	7	317280	65	1335	1661	279529	600000
20	3	7	279845	51	1869	1900	316233	600000

Type 5 #10 5530 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	1	15	387122	94	0	0	279450	666666
2	3	15	553035	51	1390	1633	110455	666666
3	1	15	81696	91	0	0	584879	666666
4	3	15	587668	52	1236	1434	76172	666666
5	1	15	534749	79	0	0	131838	666666
6	3	15	225345	66	1696	1778	437649	666666
7	2	15	36419	55	1675	0	628462	666666
8	3	15	179908	83	1307	1631	483571	666666
9	1	15	611615	100	0	0	54951	666666
10	1	15	337817	63	0	0	328786	666666
11	2	15	628947	75	1428	0	36141	666666
12	2	15	543183	77	1119	0	122210	666666
13	2	15	129076	67	1612	0	535844	666666
14	1	15	652360	50	0	0	14256	666666
15	1	15	621073	61	0	0	45532	666666
16	3	15	537577	85	1613	1075	126146	666666
17	3	15	556560	86	1052	1333	107463	666666
18	3	15	348661	60	1267	1732	314826	666666

Type 5 #11 5498 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	3	15	177460	90	1755	1909	418606	600000
2	1	15	338578	64	0	0	261358	600000
3	2	15	569161	57	1330	0	29395	600000
4	1	15	178568	99	0	0	421333	600000
5	1	15	208545	67	0	0	391388	600000
6	3	15	367968	87	1409	1717	228645	600000
7	2	15	572635	72	1520	0	25701	600000
8	2	15	482182	89	1053	0	116587	600000
9	3	15	347831	51	1996	1862	248158	600000
10	1	15	346497	70	0	0	253433	600000
11	1	15	592290	91	0	0	7619	600000
12	3	15	101661	66	1141	1457	495543	600000
13	2	15	227574	79	1752	0	370516	600000
14	1	15	225793	55	0	0	374152	600000
15	3	15	323941	58	1258	1995	272632	600000
16	3	15	368491	67	1735	1062	228511	600000
17	1	15	188182	89	0	0	411729	600000
18	3	15	117136	52	1535	1773	479400	600000
19	1	15	181244	64	0	0	418692	600000
20	1	15	290001	64	0	0	309935	600000

Type 5 #12 5530 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	1	11	266358	92	0	0	333550	600000
2	1	11	237199	99	0	0	362702	600000
3	2	11	470465	78	1494	0	127885	600000
4	2	11	381242	80	1080	0	217518	600000
5	3	11	595254	89	1850	1972	657	600000
6	2	11	541908	84	1008	0	56916	600000
7	3	11	160305	95	1981	1795	435634	600000
8	3	11	471836	98	1092	1772	125006	600000
9	3	11	301368	97	1253	1807	295281	600000
10	3	11	170821	94	1079	1908	425910	600000
11	1	11	384597	78	0	0	215325	600000
12	1	11	581867	53	0	0	18080	600000
13	1	11	393141	75	0	0	206784	600000
14	2	11	396508	50	1221	0	202171	600000
15	1	11	50090	74	0	0	549836	600000
16	3	11	2460	97	1045	1935	594269	600000
17	1	11	495572	51	0	0	104377	600000
18	1	11	361636	91	0	0	238273	600000
19	1	11	513787	59	0	0	86154	600000
20	1	11	380769	72	0	0	219159	600000

Type 5 #13 5564 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	3	9	202034	60	1951	1430	794405	1000000
2	1	9	705865	82	0	0	294053	1000000
3	3	9	666287	53	1153	1945	330456	1000000
4	2	9	214025	92	1820	0	783971	1000000
5	3	9	392533	68	1274	1461	604528	1000000
6	2	9	897478	74	1552	0	100822	1000000
7	2	9	873839	95	1118	0	124853	1000000
8	2	9	374331	80	1492	0	624017	1000000
9	1	9	945576	80	0	0	54344	1000000
10	1	9	769545	88	0	0	230367	1000000
11	1	9	931389	89	0	0	68522	1000000
12	1	9	677158	51	0	0	322791	1000000

Type 5 #14 5497 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	2	12	1101773	50	1414	0	230046	1333333
2	2	12	437108	90	1822	0	894223	1333333
3	1	12	1008574	92	0	0	324667	1333333
4	1	12	864079	76	0	0	469178	1333333
5	2	12	567087	86	1471	0	764603	1333333
6	3	12	826851	91	1098	1302	503809	1333333
7	3	12	307016	84	1552	1229	1023284	1333333
8	3	12	1297949	77	1027	1920	32206	1333333
9	1	12	1217114	77	0	0	116142	1333333

Type 5 #15 5562 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	1	15	4084	67	0	0	918925	923076
2	3	15	290823	79	1686	1444	628886	923076
3	2	15	429921	60	1427	0	491608	923076
4	2	15	911458	51	1525	0	9991	923076
5	1	15	687735	87	0	0	235254	923076
6	1	15	754240	51	0	0	168785	923076
7	2	15	156271	90	1198	0	765427	923076
8	1	15	741418	76	0	0	181582	923076
9	3	15	175600	71	1355	1844	744064	923076
10	3	15	411680	69	1058	1106	509025	923076
11	2	15	428378	64	1579	0	492991	923076
12	2	15	732439	72	1072	0	189421	923076
13	3	15	107607	65	1870	1852	811552	923076

Type 5 #16 5499 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	2	17	560991	54	1032	0	528778	1090909
2	2	17	1014335	67	1364	0	75076	1090909
3	3	17	965084	68	1975	1517	122129	1090909
4	3	17	975507	78	1087	1138	112943	1090909
5	3	17	874119	52	1975	1732	212927	1090909
6	2	17	209078	51	1810	0	879919	1090909
7	3	17	66566	98	1485	1931	1020633	1090909
8	3	17	567329	86	1318	1640	520364	1090909
9	2	17	938577	94	1417	0	150727	1090909
10	1	17	126964	87	0	0	963858	1090909
11	3	17	851765	72	1425	1980	235523	1090909

Type 5 #17 5564 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	1	11	181036	58	0	0	1152239	1333333
2	3	11	1067691	69	1494	1191	262750	1333333
3	1	11	632704	92	0	0	700537	1333333
4	3	11	90159	92	1306	1773	1239819	1333333
5	2	11	78814	53	1120	0	1253293	1333333
6	3	11	780719	57	1278	1615	549550	1333333
7	2	11	950821	86	1113	0	381227	1333333
8	3	11	1125223	68	1905	1942	204059	1333333
9	3	11	926037	95	1185	1590	404236	1333333

Type 5 #18 5530 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	1	5	66390	55	0	0	856631	923076
2	1	5	199043	50	0	0	723983	923076
3	2	5	114016	62	1215	0	807721	923076
4	2	5	873668	57	1140	0	48154	923076
5	3	5	214444	88	1820	1491	705057	923076
6	1	5	421184	73	0	0	501819	923076
7	2	5	79432	58	1940	0	841588	923076
8	2	5	712116	52	1220	0	209636	923076
9	1	5	30039	95	0	0	892942	923076
10	1	5	409843	73	0	0	513160	923076
11	2	5	408966	51	1544	0	512464	923076
12	1	5	215481	54	0	0	707541	923076
13	2	5	560525	87	1812	0	360565	923076

Type 5 #19 5530 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	2	14	515338	73	1377	0	574048	1090909
2	1	14	54718	83	0	0	1036108	1090909
3	3	14	2876	61	1908	1561	1084381	1090909
4	2	14	705713	96	1562	0	383442	1090909
5	2	14	535683	71	1426	0	553658	1090909
6	3	14	181879	50	1677	1397	905806	1090909
7	3	14	708502	58	1083	1788	379362	1090909
8	2	14	133088	66	1217	0	956472	1090909
9	2	14	273877	72	1358	0	815530	1090909
10	3	14	730379	80	1025	1867	357398	1090909
11	2	14	998701	52	1239	0	90865	1090909

Type 5 #20 5530 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	2	6	68963	68	1737	0	729164	800000
2	1	6	196792	92	0	0	603116	800000
3	2	6	784722	50	1414	0	13764	800000
4	1	6	107719	84	0	0	692197	800000
5	1	6	691220	68	0	0	108712	800000
6	1	6	438962	76	0	0	360962	800000
7	3	6	516575	87	1171	1701	280292	800000
8	2	6	68257	75	1826	0	729767	800000
9	3	6	46592	90	1604	1201	750333	800000
10	1	6	353981	82	0	0	445937	800000
11	1	6	8016	91	0	0	791893	800000
12	1	6	46372	96	0	0	753532	800000
13	3	6	28856	58	1214	1445	768311	800000
14	1	6	407211	56	0	0	392733	800000
15	2	6	80945	94	1299	0	717568	800000

Type 5 #21 5563 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	3	12	1086014	52	1889	1393	110548	1200000
2	3	12	418962	70	1691	1931	777206	1200000
3	2	12	394109	53	1843	0	803942	1200000
4	1	12	526632	78	0	0	673290	1200000
5	2	12	171124	83	1266	0	1027444	1200000
6	3	12	532554	86	1187	1178	664823	1200000
7	1	12	143793	78	0	0	1056129	1200000
8	1	12	155404	52	0	0	1044544	1200000
9	1	12	693479	87	0	0	506434	1200000
10	2	12	310004	76	1859	0	887985	1200000

Type 5 #22 5530 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	1	5	928783	70	0	0	571147	1500000
2	3	5	291243	50	1212	1213	1206182	1500000
3	1	5	172371	66	0	0	1327563	1500000
4	3	5	1413532	77	1276	1826	83135	1500000
5	3	5	425739	83	1070	1634	1071308	1500000
6	3	5	815782	73	1475	1675	680849	1500000
7	3	5	649956	75	1662	1728	846429	1500000
8	2	5	514128	56	1956	0	983804	1500000

Type 5 #23 5563 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	1	13	277002	61	0	0	322937	600000
2	1	13	193447	67	0	0	406486	600000
3	3	13	441970	68	1680	1190	154956	600000
4	3	13	271143	77	1747	1350	325529	600000
5	3	13	590810	92	1843	1357	5714	600000
6	1	13	175939	66	0	0	423995	600000
7	1	13	551752	65	0	0	48183	600000
8	1	13	50347	72	0	0	549581	600000
9	3	13	45413	58	1028	1406	551979	600000
10	3	13	504547	97	1195	1777	92190	600000
11	2	13	323725	93	1605	0	274484	600000
12	1	13	88194	69	0	0	511737	600000
13	1	13	380959	57	0	0	218984	600000
14	3	13	258355	64	1375	1349	338729	600000
15	2	13	130374	57	1663	0	467849	600000
16	2	13	341891	80	1127	0	256822	600000
17	2	13	506935	90	1418	0	91467	600000
18	3	13	586795	61	1700	1322	10000	600000
19	1	13	436708	75	0	0	163217	600000
20	1	13	10455	86	0	0	589459	600000

Type 5 #24 5494 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	3	6	948022	97	1347	1388	48952	1000000
2	1	6	767731	81	0	0	232188	1000000
3	2	6	998608	87	1509	0	-291	1000000
4	1	6	466066	84	0	0	533850	1000000
5	2	6	770808	66	1641	0	227419	1000000
6	1	6	110526	86	0	0	889388	1000000
7	3	6	690627	57	1794	1439	305969	1000000
8	1	6	312290	89	0	0	687621	1000000
9	1	6	445144	71	0	0	554785	1000000
10	1	6	271720	58	0	0	728222	1000000
11	1	6	715576	100	0	0	284324	1000000
12	3	6	61419	78	1888	1896	934563	1000000

Type 5 #25 5566 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	2	6	881596	58	1973	0	449648	1333333
2	3	6	1064282	82	1231	1194	266380	1333333
3	1	6	628483	84	0	0	704766	1333333
4	2	6	1112309	69	1941	0	218945	1333333
5	1	6	313796	63	0	0	1019474	1333333
6	2	6	748715	59	1901	0	582599	1333333
7	1	6	394032	56	0	0	939245	1333333
8	3	6	812217	91	1998	1197	517648	1333333
9	2	6	497452	67	1788	0	833959	1333333

Type 5 #26 5562 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	1	15	238551	61	0	0	561388	800000
2	3	15	386100	68	1754	1738	410204	800000
3	3	15	757747	78	1670	1897	38452	800000
4	3	15	708045	99	1073	1473	89112	800000
5	1	15	243610	56	0	0	556334	800000
6	3	15	791825	52	1475	1703	4841	800000
7	2	15	787464	96	1102	0	11242	800000
8	3	15	119937	85	1439	1243	677126	800000
9	1	15	94643	73	0	0	705284	800000
10	2	15	203823	57	1810	0	594253	800000
11	3	15	588409	55	1292	1309	208825	800000
12	3	15	511088	85	1622	1708	285327	800000
13	2	15	635720	97	1077	0	163009	800000
14	1	15	219718	99	0	0	580183	800000
15	2	15	163769	61	1898	0	634211	800000

Type 5 #27 5498 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	3	14	747013	57	1372	1620	-176	750000
2	1	14	613272	60	0	0	136668	750000
3	2	14	409302	60	1509	0	339069	750000
4	3	14	269313	68	1830	1820	476833	750000
5	3	14	522948	60	1888	1394	223590	750000
6	1	14	375485	53	0	0	374462	750000
7	3	14	527531	80	1043	1840	219346	750000
8	1	14	540456	50	0	0	209494	750000
9	2	14	524882	63	1818	0	223174	750000
10	1	14	27133	81	0	0	722786	750000
11	3	14	533852	64	1081	1823	213052	750000
12	3	14	127440	74	1226	1220	619892	750000
13	1	14	546834	75	0	0	203091	750000
14	2	14	740906	73	1752	0	7196	750000
15	1	14	92934	92	0	0	656974	750000
16	3	14	258900	86	1383	1192	488267	750000

Type 5 #28 5562 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	3	16	1090949	91	1126	1815	105837	1200000
2	3	16	600463	51	1549	1419	596416	1200000
3	3	16	57595	55	1761	1862	1138617	1200000
4	2	16	509376	73	1590	0	688888	1200000
5	1	16	639176	79	0	0	560745	1200000
6	3	16	131777	60	1206	1094	1065743	1200000
7	1	16	751223	92	0	0	448685	1200000
8	3	16	688767	89	1313	1047	508606	1200000
9	2	16	713045	98	1883	0	484876	1200000
10	2	16	96520	61	1628	0	1101730	1200000

Type 5 #29 5495 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	3	8	432325	69	1907	1817	897077	1333333
2	3	8	314726	69	1966	1273	1015161	1333333
3	2	8	171497	64	1287	0	1160421	1333333
4	1	8	917901	51	0	0	415381	1333333
5	1	8	1319743	97	0	0	13493	1333333
6	2	8	1153759	55	1738	0	177726	1333333
7	3	8	1244999	64	1499	1719	84924	1333333
8	1	8	92208	82	0	0	1241043	1333333
9	3	8	1315569	75	1260	1321	14958	1333333

Type 5 #30 5500 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	2	20	661662	53	1556	0	836676	1500000
2	2	20	318489	92	1763	0	1179564	1500000
3	1	20	1233616	55	0	0	266329	1500000
4	3	20	724378	83	1438	1353	772582	1500000
5	3	20	924093	99	1061	1196	573353	1500000
6	3	20	59186	50	1325	1401	1437938	1500000
7	3	20	1471483	90	1928	1429	24890	1500000
8	2	20	1277880	76	1818	0	220150	1500000

Type 6 #1 [Back to Summary]									
#01-5370	#02-5630	#03-5705	#04-5690	#05-5546	#06-5553	#07-5571	#08-5261	#09-5574	#10-5316
#11-5523	#12-5402	#13-5643	#14-5438	#15-5631	#16-5550	#17-5269	#18-5607	#19-5331	#20-5282
#21-5667	#22-5566	#23-5695	#24-5693	#25-5670	#26-5509	#27-5570	#28-5641	#29-5265	#30-5449
#31-5355	#32-5466	#33-5359	#34-5451	#35-5648	#36-5619	#37-5486	#38-5595	#39-5403	#40-5443
#41-5687	#42-5557	#43-5454	#44-5599	#45-5275	#46-5672	#47-5666	#48-5335	#49-5613	#50-5470
#51-5540	#52-5270	#53-5665	#54-5588	#55-5506	#56-5518	#57-5658	#58-5260	#59-5271	#60-5287
#61-5707	#62-5650	#63-5721	#64-5369	#65-5683	#66-5307	#67-5295	#68-5433	#69-5507	#70-5257
#71-5315	#72-5393	#73-5447	#74-5604	#75-5321	#76-5356	#77-5363	#78-5344	#79-5668	#80-5724
#81-5564	#82-5482	#83-5280	#84-5511	#85-5623	#86-5339	#87-5521	#88-5485	#89-5660	#90-5375
#91-5686	#92-5473	#93-5576	#94-5374	#95-5462	#96-5289	#97-5560	#98-5337	#99-5637	#100-5694

Type 6 #2 [Back to Summary]									
#01-5630	#02-5478	#03-5546	#04-5608	#05-5409	#06-5402	#07-5541	#08-5307	#09-5525	#10-5407
#11-5416	#12-5570	#13-5317	#14-5268	#15-5438	#16-5469	#17-5628	#18-5454	#19-5470	#20-5600
#21-5506	#22-5528	#23-5501	#24-5388	#25-5294	#26-5562	#27-5543	#28-5329	#29-5389	#30-5282
#31-5516	#32-5274	#33-5425	#34-5702	#35-5344	#36-5343	#37-5668	#38-5393	#39-5355	#40-5479
#41-5524	#42-5468	#43-5692	#44-5508	#45-5684	#46-5367	#47-5412	#48-5567	#49-5663	#50-5723
#51-5380	#52-5360	#53-5597	#54-5292	#55-5440	#56-5351	#57-5703	#58-5404	#59-5569	#60-5583
#61-5593	#62-5462	#63-5645	#64-5494	#65-5623	#66-5386	#67-5392	#68-5337	#69-5653	#70-5339
#71-5533	#72-5485	#73-5345	#74-5718	#75-5323	#76-5284	#77-5566	#78-5720	#79-5437	#80-5655
#81-5398	#82-5704	#83-5394	#84-5391	#85-5627	#86-5403	#87-5411	#88-5375	#89-5518	#90-5714
#91-5361	#92-5515	#93-5560	#94-5505	#95-5615	#96-5302	#97-5556	#98-5450	#99-5616	#100-5547

Type 6 #3 [Back to Summary]									
#01-5700	#02-5318	#03-5634	#04-5566	#05-5445	#06-5625	#07-5262	#08-5597	#09-5690	#10-5399
#11-5514	#12-5706	#13-5692	#14-5632	#15-5426	#16-5605	#17-5316	#18-5495	#19-5589	#20-5464
#21-5708	#22-5264	#23-5550	#24-5657	#25-5702	#26-5267	#27-5648	#28-5564	#29-5356	#30-5272
#31-5458	#32-5363	#33-5360	#34-5615	#35-5674	#36-5329	#37-5319	#38-5546	#39-5669	#40-5723
#41-5388	#42-5528	#43-5412	#44-5362	#45-5447	#46-5384	#47-5538	#48-5642	#49-5323	#50-5251
#51-5714	#52-5301	#53-5574	#54-5394	#55-5554	#56-5682	#57-5485	#58-5697	#59-5583	#60-5427
#61-5696	#62-5415	#63-5487	#64-5664	#65-5656	#66-5400	#67-5588	#68-5324	#69-5678	#70-5346
#71-5532	#72-5484	#73-5543	#74-5590	#75-5327	#76-5421	#77-5568	#78-5438	#79-5456	#80-5561
#81-5444	#82-5255	#83-5492	#84-5352	#85-5281	#86-5407	#87-5507	#88-5688	#89-5306	#90-5716
#91-5559	#92-5341	#93-5683	#94-5489	#95-5274	#96-5693	#97-5291	#98-5466	#99-5422	#100-5296

Type 6 #4 [Back to Summary]									
#01-5514	#02-5467	#03-5687	#04-5700	#05-5434	#06-5473	#07-5476	#08-5708	#09-5313	#10-5382
#11-5359	#12-5296	#13-5492	#14-5269	#15-5704	#16-5692	#17-5643	#18-5385	#19-5637	#20-5504
#21-5614	#22-5624	#23-5263	#24-5690	#25-5508	#26-5444	#27-5528	#28-5307	#29-5571	#30-5355
#31-5380	#32-5354	#33-5266	#34-5413	#35-5303	#36-5706	#37-5293	#38-5523	#39-5642	#40-5534
#41-5656	#42-5529	#43-5625	#44-5649	#45-5600	#46-5517	#47-5575	#48-5666	#49-5509	#50-5302
#51-5300	#52-5628	#53-5552	#54-5645	#55-5403	#56-5607	#57-5449	#58-5719	#59-5437	#60-5714
#61-5668	#62-5415	#63-5383	#64-5679	#65-5251	#66-5255	#67-5280	#68-5329	#69-5688	#70-5724
#71-5644	#72-5373	#73-5462	#74-5357	#75-5565	#76-5339	#77-5723	#78-5338	#79-5340	#80-5712
#81-5588	#82-5579	#83-5515	#84-5512	#85-5308	#86-5471	#87-5525	#88-5346	#89-5258	#90-5417
#91-5497	#92-5298	#93-5330	#94-5651	#95-5582	#96-5485	#97-5393	#98-5665	#99-5640	#100-5593

Type 6 #5 [Back to Summary]									
#01-5488	#02-5500	#03-5700	#04-5513	#05-5376	#06-5650	#07-5414	#08-5444	#09-5324	#10-5314
#11-5612	#12-5363	#13-5630	#14-5453	#15-5368	#16-5334	#17-5624	#18-5591	#19-5627	#20-5502
#21-5451	#22-5661	#23-5317	#24-5526	#25-5472	#26-5601	#27-5294	#28-5538	#29-5496	#30-5330
#31-5675	#32-5302	#33-5415	#34-5464	#35-5477	#36-5345	#37-5610	#38-5255	#39-5392	#40-5381
#41-5308	#42-5333	#43-5268	#44-5670	#45-5534	#46-5390	#47-5398	#48-5602	#49-5542	#50-5505
#51-5592	#52-5528	#53-5289	#54-5400	#55-5401	#56-5559	#57-5432	#58-5428	#59-5287	#60-5507
#61-5609	#62-5608	#63-5678	#64-5720	#65-5366	#66-5562	#67-5679	#68-5418	#69-5703	#70-5271
#71-5454	#72-5621	#73-5452	#74-5498	#75-5441	#76-5369	#77-5644	#78-5377	#79-5721	#80-5332
#81-5461	#82-5422	#83-5250	#84-5722	#85-5470	#86-5399	#87-5262	#88-5267	#89-5316	#90-5651
#91-5643	#92-5437	#93-5692	#94-5617	#95-5509	#96-5434	#97-5384	#98-5275	#99-5555	#100-5697

Type 6 #6 [Back to Summary]									
#01-5438	#02-5702	#03-5623	#04-5512	#05-5299	#06-5696	#07-5323	#08-5520	#09-5680	#10-5276
#11-5637	#12-5302	#13-5429	#14-5679	#15-5293	#16-5433	#17-5601	#18-5673	#19-5502	#20-5691
#21-5543	#22-5653	#23-5349	#24-5305	#25-5359	#26-5265	#27-5649	#28-5558	#29-5720	#30-5258
#31-5711	#32-5610	#33-5549	#34-5273	#35-5616	#36-5477	#37-5518	#38-5459	#39-5668	#40-5490
#41-5328	#42-5463	#43-5314	#44-5290	#45-5257	#46-5585	#47-5253	#48-5261	#49-5570	#50-5325
#51-5551	#52-5432	#53-5494	#54-5580	#55-5402	#56-5506	#57-5602	#58-5568	#59-5405	#60-5286
#61-5298	#62-5486	#63-5526	#64-5671	#65-5295	#66-5277	#67-5472	#68-5408	#69-5317	#70-5539
#71-5636	#72-5393	#73-5252	#74-5263	#75-5618	#76-5338	#77-5595	#78-5319	#79-5306	#80-5496
#81-5267	#82-5645	#83-5714	#84-5652	#85-5435	#86-5529	#87-5377	#88-5697	#89-5596	#90-5372
#91-5600	#92-5676	#93-5318	#94-5638	#95-5451	#96-5562	#97-5665	#98-5371	#99-5250	#100-5710

Type 6 #7 [Back to Summary]									
#01-5365	#02-5573	#03-5675	#04-5283	#05-5408	#06-5412	#07-5432	#08-5487	#09-5691	#10-5323
#11-5636	#12-5544	#13-5524	#14-5637	#15-5270	#16-5376	#17-5500	#18-5599	#19-5490	#20-5486
#21-5628	#22-5503	#23-5535	#24-5670	#25-5662	#26-5685	#27-5332	#28-5337	#29-5534	#30-5301
#31-5386	#32-5477	#33-5307	#34-5310	#35-5379	#36-5416	#37-5695	#38-5680	#39-5494	#40-5268
#41-5348	#42-5609	#43-5254	#44-5523	#45-5453	#46-5306	#47-5403	#48-5397	#49-5618	#50-5324
#51-5314	#52-5319	#53-5600	#54-5489	#55-5335	#56-5589	#57-5287	#58-5255	#59-5352	#60-5452
#61-5331	#62-5347	#63-5677	#64-5641	#65-5663	#66-5413	#67-5492	#68-5467	#69-5515	#70-5584
#71-5414	#72-5551	#73-5359	#74-5473	#75-5394	#76-5269	#77-5506	#78-5262	#79-5471	#80-5610
#81-5541	#82-5667	#83-5449	#84-5465	#85-5716	#86-5320	#87-5612	#88-5555	#89-5706	#90-5522
#91-5380	#92-5692	#93-5586	#94-5294	#95-5669	#96-5256	#97-5658	#98-5346	#99-5588	#100-5296

Type 6 #8 [Back to Summary]									
#01-5545	#02-5663	#03-5611	#04-5285	#05-5639	#06-5491	#07-5688	#08-5377	#09-5345	#10-5312
#11-5340	#12-5274	#13-5513	#14-5466	#15-5641	#16-5389	#17-5619	#18-5462	#19-5648	#20-5590
#21-5523	#22-5666	#23-5483	#24-5717	#25-5451	#26-5442	#27-5686	#28-5307	#29-5526	#30-5383
#31-5333	#32-5404	#33-5401	#34-5420	#35-5306	#36-5593	#37-5299	#38-5411	#39-5549	#40-5473
#41-5356	#42-5480	#43-5450	#44-5642	#45-5426	#46-5350	#47-5425	#48-5366	#49-5378	#50-5535
#51-5359	#52-5448	#53-5422	#54-5719	#55-5503	#56-5607	#57-5430	#58-5623	#59-5560	#60-5446
#61-5536	#62-5631	#63-5578	#64-5689	#65-5703	#66-5661	#67-5598	#68-5337	#69-5403	#70-5292
#71-5331	#72-5464	#73-5643	#74-5424	#75-5490	#76-5290	#77-5469	#78-5571	#79-5544	#80-5349
#81-5267	#82-5573	#83-5658	#84-5722	#85-5270	#86-5614	#87-5708	#88-5406	#89-5650	#90-5428
#91-5413	#92-5399	#93-5580	#94-5348	#95-5668	#96-5455	#97-5626	#98-5493	#99-5667	#100-5494

Type 6 #9 [Back to Summary]									
#01-5477	#02-5331	#03-5684	#04-5330	#05-5443	#06-5624	#07-5531	#08-5719	#09-5482	#10-5450
#11-5390	#12-5584	#13-5327	#14-5452	#15-5422	#16-5686	#17-5698	#18-5578	#19-5660	#20-5337
#21-5675	#22-5438	#23-5417	#24-5704	#25-5604	#26-5652	#27-5603	#28-5534	#29-5484	#30-5281
#31-5391	#32-5701	#33-5627	#34-5298	#35-5597	#36-5662	#37-5607	#38-5567	#39-5523	#40-5370
#41-5329	#42-5714	#43-5646	#44-5442	#45-5284	#46-5552	#47-5322	#48-5374	#49-5650	#50-5702
#51-5474	#52-5294	#53-5545	#54-5570	#55-5530	#56-5283	#57-5632	#58-5705	#59-5445	#60-5506
#61-5265	#62-5718	#63-5479	#64-5441	#65-5305	#66-5409	#67-5673	#68-5275	#69-5571	#70-5481
#71-5323	#72-5372	#73-5299	#74-5536	#75-5254	#76-5683	#77-5511	#78-5694	#79-5663	#80-5297
#81-5575	#82-5473	#83-5601	#84-5502	#85-5524	#86-5347	#87-5397	#88-5304	#89-5487	#90-5560
#91-5276	#92-5626	#93-5371	#94-5264	#95-5357	#96-5343	#97-5478	#98-5449	#99-5389	#100-5594

Type 6 #10 [Back to Summary]									
#01-5603	#02-5298	#03-5525	#04-5420	#05-5628	#06-5353	#07-5722	#08-5261	#09-5570	#10-5574
#11-5495	#12-5663	#13-5286	#14-5401	#15-5657	#16-5511	#17-5361	#18-5701	#19-5642	#20-5685
#21-5263	#22-5621	#23-5510	#24-5260	#25-5454	#26-5419	#27-5251	#28-5285	#29-5433	#30-5638
#31-5457	#32-5315	#33-5557	#34-5323	#35-5421	#36-5532	#37-5679	#38-5438	#39-5604	#40-5427
#41-5349	#42-5389	#43-5462	#44-5639	#45-5319	#46-5342	#47-5593	#48-5697	#49-5335	#50-5567
#51-5705	#52-5504	#53-5534	#54-5430	#55-5583	#56-5706	#57-5507	#58-5515	#59-5689	#60-5456
#61-5351	#62-5688	#63-5553	#64-5653	#65-5367	#66-5434	#67-5355	#68-5690	#69-5708	#70-5376
#71-5556	#72-5646	#73-5344	#74-5466	#75-5585	#76-5596	#77-5410	#78-5598	#79-5667	#80-5363
#81-5546	#82-5278	#83-5671	#84-5584	#85-5658	#86-5675	#87-5496	#88-5375	#89-5459	#90-5436
#91-5271	#92-5408	#93-5471	#94-5393	#95-5321	#96-5382	#97-5555	#98-5526	#99-5519	#100-5608

Type 6 #11 [Back to Summary]									
#01-5710	#02-5627	#03-5715	#04-5680	#05-5259	#06-5305	#07-5407	#08-5318	#09-5566	#10-5708
#11-5538	#12-5632	#13-5568	#14-5573	#15-5629	#16-5322	#17-5265	#18-5689	#19-5720	#20-5414
#21-5652	#22-5698	#23-5475	#24-5512	#25-5354	#26-5392	#27-5426	#28-5670	#29-5388	#30-5451
#31-5288	#32-5606	#33-5329	#34-5310	#35-5378	#36-5644	#37-5289	#38-5716	#39-5575	#40-5600
#41-5516	#42-5435	#43-5531	#44-5474	#45-5618	#46-5361	#47-5562	#48-5616	#49-5487	#50-5252
#51-5367	#52-5589	#53-5528	#54-5355	#55-5674	#56-5260	#57-5399	#58-5447	#59-5574	#60-5587
#61-5599	#62-5456	#63-5650	#64-5363	#65-5667	#66-5653	#67-5548	#68-5503	#69-5442	#70-5705
#71-5281	#72-5274	#73-5359	#74-5365	#75-5615	#76-5467	#77-5415	#78-5251	#79-5614	#80-5717
#81-5544	#82-5523	#83-5431	#84-5386	#85-5333	#86-5420	#87-5326	#88-5694	#89-5356	#90-5371
#91-5496	#92-5560	#93-5389	#94-5712	#95-5253	#96-5311	#97-5506	#98-5423	#99-5529	#100-5688

Type 6 #12 [Back to Summary]									
#01-5532	#02-5308	#03-5425	#04-5507	#05-5695	#06-5344	#07-5481	#08-5418	#09-5461	#10-5456
#11-5570	#12-5395	#13-5556	#14-5588	#15-5288	#16-5322	#17-5273	#18-5516	#19-5279	#20-5501
#21-5582	#22-5587	#23-5400	#24-5328	#25-5460	#26-5442	#27-5615	#28-5372	#29-5362	#30-5562
#31-5687	#32-5720	#33-5446	#34-5652	#35-5434	#36-5494	#37-5354	#38-5654	#39-5416	#40-5715
#41-5665	#42-5634	#43-5486	#44-5628	#45-5528	#46-5349	#47-5261	#48-5530	#49-5675	#50-5656
#51-5287	#52-5719	#53-5389	#54-5281	#55-5365	#56-5673	#57-5631	#58-5346	#59-5298	#60-5505
#61-5459	#62-5358	#63-5306	#64-5627	#65-5496	#66-5574	#67-5678	#68-5626	#69-5401	#70-5523
#71-5692	#72-5343	#73-5342	#74-5286	#75-5560	#76-5668	#77-5347	#78-5498	#79-5526	#80-5359
#81-5429	#82-5330	#83-5424	#84-5435	#85-5524	#86-5693	#87-5581	#88-5412	#89-5540	#90-5485
#91-5590	#92-5256	#93-5606	#94-5641	#95-5508	#96-5557	#97-5579	#98-5585	#99-5381	#100-5682

Type 6 #13 [Back to Summary]									
#01-5400	#02-5358	#03-5378	#04-5404	#05-5688	#06-5665	#07-5623	#08-5351	#09-5448	#10-5423
#11-5576	#12-5384	#13-5548	#14-5666	#15-5322	#16-5376	#17-5659	#18-5598	#19-5356	#20-5528
#21-5718	#22-5512	#23-5340	#24-5638	#25-5660	#26-5684	#27-5468	#28-5432	#29-5506	#30-5254
#31-5337	#32-5490	#33-5364	#34-5569	#35-5682	#36-5316	#37-5678	#38-5270	#39-5470	#40-5579
#41-5313	#42-5477	#43-5693	#44-5363	#45-5632	#46-5452	#47-5435	#48-5661	#49-5562	#50-5379
#51-5617	#52-5704	#53-5474	#54-5577	#55-5686	#56-5608	#57-5264	#58-5461	#59-5465	#60-5253
#61-5445	#62-5441	#63-5567	#64-5440	#65-5325	#66-5332	#67-5269	#68-5705	#69-5710	#70-5255
#71-5421	#72-5636	#73-5381	#74-5507	#75-5463	#76-5495	#77-5546	#78-5706	#79-5256	#80-5459
#81-5502	#82-5532	#83-5591	#84-5374	#85-5354	#86-5361	#87-5268	#88-5515	#89-5609	#90-5315
#91-5302	#92-5471	#93-5534	#94-5469	#95-5385	#96-5600	#97-5631	#98-5501	#99-5285	#100-5552

Type 6 #14 [Back to Summary]									
#01-5432	#02-5456	#03-5679	#04-5560	#05-5681	#06-5706	#07-5572	#08-5693	#09-5365	#10-5442
#11-5313	#12-5284	#13-5459	#14-5256	#15-5480	#16-5640	#17-5576	#18-5439	#19-5333	#20-5690
#21-5319	#22-5485	#23-5344	#24-5636	#25-5671	#26-5678	#27-5360	#28-5635	#29-5373	#30-5586
#31-5583	#32-5297	#33-5667	#34-5428	#35-5276	#36-5293	#37-5573	#38-5280	#39-5421	#40-5379
#41-5515	#42-5299	#43-5394	#44-5416	#45-5254	#46-5270	#47-5258	#48-5525	#49-5712	#50-5469
#51-5273	#52-5445	#53-5417	#54-5323	#55-5487	#56-5672	#57-5367	#58-5294	#59-5612	#60-5724
#61-5597	#62-5656	#63-5569	#64-5507	#65-5584	#66-5267	#67-5345	#68-5282	#69-5704	#70-5440
#71-5321	#72-5546	#73-5271	#74-5682	#75-5430	#76-5275	#77-5350	#78-5651	#79-5630	#80-5650
#81-5670	#82-5559	#83-5648	#84-5627	#85-5562	#86-5399	#87-5605	#88-5600	#89-5675	#90-5335
#91-5653	#92-5532	#93-5397	#94-5424	#95-5505	#96-5578	#97-5455	#98-5609	#99-5550	#100-5714

Type 6 #15 [Back to Summary]									
#01-5655	#02-5704	#03-5541	#04-5524	#05-5398	#06-5450	#07-5419	#08-5457	#09-5616	#10-5458
#11-5581	#12-5431	#13-5378	#14-5683	#15-5299	#16-5282	#17-5254	#18-5663	#19-5662	#20-5436
#21-5381	#22-5464	#23-5326	#24-5624	#25-5505	#26-5506	#27-5399	#28-5573	#29-5424	#30-5570
#31-5545	#32-5453	#33-5344	#34-5645	#35-5723	#36-5695	#37-5269	#38-5373	#39-5484	#40-5362
#41-5700	#42-5400	#43-5711	#44-5470	#45-5475	#46-5474	#47-5402	#48-5434	#49-5366	#50-5477
#51-5578	#52-5517	#53-5674	#54-5363	#55-5583	#56-5441	#57-5627	#58-5642	#59-5270	#60-5618
#61-5297	#62-5572	#63-5279	#64-5295	#65-5638	#66-5374	#67-5333	#68-5463	#69-5685	#70-5327
#71-5262	#72-5602	#73-5428	#74-5549	#75-5465	#76-5707	#77-5481	#78-5587	#79-5396	#80-5281
#81-5347	#82-5690	#83-5451	#84-5677	#85-5718	#86-5280	#87-5508	#88-5701	#89-5313	#90-5532
#91-5317	#92-5350	#93-5354	#94-5591	#95-5314	#96-5379	#97-5370	#98-5661	#99-5556	#100-5342

Type 6 #16 [Back to Summary]									
#01-5386	#02-5667	#03-5476	#04-5290	#05-5459	#06-5699	#07-5334	#08-5377	#09-5632	#10-5598
#11-5692	#12-5292	#13-5492	#14-5715	#15-5518	#16-5335	#17-5372	#18-5326	#19-5303	#20-5607
#21-5597	#22-5360	#23-5399	#24-5408	#25-5262	#26-5636	#27-5498	#28-5565	#29-5483	#30-5333
#31-5585	#32-5537	#33-5278	#34-5306	#35-5621	#36-5412	#37-5466	#38-5414	#39-5471	#40-5269
#41-5672	#42-5379	#43-5319	#44-5444	#45-5564	#46-5274	#47-5587	#48-5368	#49-5322	#50-5706
#51-5254	#52-5295	#53-5614	#54-5673	#55-5477	#56-5277	#57-5526	#58-5325	#59-5280	#60-5552
#61-5457	#62-5501	#63-5625	#64-5553	#65-5263	#66-5413	#67-5264	#68-5442	#69-5352	#70-5367
#71-5601	#72-5688	#73-5586	#74-5287	#75-5663	#76-5480	#77-5296	#78-5682	#79-5571	#80-5713
#81-5308	#82-5389	#83-5503	#84-5509	#85-5338	#86-5547	#87-5652	#88-5343	#89-5562	#90-5596
#91-5616	#92-5401	#93-5391	#94-5649	#95-5544	#96-5433	#97-5486	#98-5500	#99-5434	#100-5415

Type 6 #17 [Back to Summary]									
#01-5262	#02-5399	#03-5271	#04-5685	#05-5361	#06-5294	#07-5437	#08-5579	#09-5259	#10-5724
#11-5710	#12-5566	#13-5479	#14-5292	#15-5499	#16-5325	#17-5723	#18-5372	#19-5472	#20-5447
#21-5484	#22-5653	#23-5603	#24-5477	#25-5475	#26-5452	#27-5556	#28-5662	#29-5465	#30-5487
#31-5716	#32-5522	#33-5505	#34-5408	#35-5698	#36-5626	#37-5356	#38-5536	#39-5388	#40-5285
#41-5355	#42-5321	#43-5323	#44-5562	#45-5608	#46-5296	#47-5639	#48-5341	#49-5400	#50-5469
#51-5428	#52-5360	#53-5274	#54-5705	#55-5650	#56-5334	#57-5525	#58-5523	#59-5460	#60-5633
#61-5462	#62-5502	#63-5363	#64-5507	#65-5255	#66-5440	#67-5314	#68-5318	#69-5315	#70-5598
#71-5687	#72-5441	#73-5702	#74-5434	#75-5339	#76-5411	#77-5586	#78-5293	#79-5599	#80-5430
#81-5545	#82-5468	#83-5521	#84-5720	#85-5306	#86-5613	#87-5503	#88-5529	#89-5491	#90-5621
#91-5358	#92-5571	#93-5326	#94-5488	#95-5554	#96-5591	#97-5683	#98-5552	#99-5559	#100-5414

Type 6 #18 [Back to Summary]									
#01-5705	#02-5571	#03-5275	#04-5527	#05-5504	#06-5713	#07-5379	#08-5563	#09-5620	#10-5489
#11-5473	#12-5475	#13-5648	#14-5280	#15-5344	#16-5723	#17-5706	#18-5363	#19-5441	#20-5371
#21-5667	#22-5518	#23-5556	#24-5420	#25-5486	#26-5370	#27-5362	#28-5469	#29-5612	#30-5474
#31-5445	#32-5283	#33-5462	#34-5426	#35-5447	#36-5689	#37-5435	#38-5710	#39-5465	#40-5315
#41-5481	#42-5656	#43-5624	#44-5718	#45-5388	#46-5602	#47-5639	#48-5292	#49-5384	#50-5549
#51-5600	#52-5570	#53-5348	#54-5425	#55-5470	#56-5431	#57-5263	#58-5579	#59-5288	#60-5380
#61-5597	#62-5633	#63-5675	#64-5391	#65-5293	#66-5440	#67-5261	#68-5471	#69-5557	#70-5375
#71-5536	#72-5720	#73-5623	#74-5369	#75-5618	#76-5259	#77-5621	#78-5562	#79-5281	#80-5608
#81-5454	#82-5320	#83-5332	#84-5312	#85-5598	#86-5601	#87-5657	#88-5284	#89-5682	#90-5262
#91-5676	#92-5583	#93-5671	#94-5333	#95-5444	#96-5567	#97-5703	#98-5483	#99-5672	#100-5669

Type 6 #19 [Back to Summary]									
#01-5591	#02-5422	#03-5461	#04-5257	#05-5265	#06-5608	#07-5674	#08-5702	#09-5536	#10-5459
#11-5540	#12-5424	#13-5547	#14-5403	#15-5651	#16-5523	#17-5548	#18-5613	#19-5516	#20-5413
#21-5510	#22-5705	#23-5507	#24-5543	#25-5425	#26-5673	#27-5298	#28-5537	#29-5654	#30-5297
#31-5279	#32-5386	#33-5615	#34-5332	#35-5268	#36-5285	#37-5586	#38-5328	#39-5301	#40-5717
#41-5652	#42-5678	#43-5469	#44-5471	#45-5444	#46-5497	#47-5289	#48-5515	#49-5404	#50-5644
#51-5273	#52-5346	#53-5686	#54-5504	#55-5407	#56-5611	#57-5635	#58-5641	#59-5555	#60-5317
#61-5559	#62-5381	#63-5300	#64-5486	#65-5430	#66-5396	#67-5535	#68-5462	#69-5383	#70-5620
#71-5666	#72-5468	#73-5567	#74-5527	#75-5487	#76-5564	#77-5479	#78-5288	#79-5345	#80-5657
#81-5636	#82-5503	#83-5375	#84-5258	#85-5276	#86-5663	#87-5428	#88-5356	#89-5649	#90-5377
#91-5369	#92-5671	#93-5496	#94-5709	#95-5406	#96-5519	#97-5629	#98-5708	#99-5293	#100-5302

Type 6 #20 [Back to Summary]									
#01-5688	#02-5548	#03-5378	#04-5513	#05-5706	#06-5526	#07-5503	#08-5406	#09-5266	#10-5575
#11-5376	#12-5598	#13-5545	#14-5625	#15-5404	#16-5299	#17-5253	#18-5289	#19-5463	#20-5494
#21-5695	#22-5429	#23-5541	#24-5256	#25-5493	#26-5721	#27-5696	#28-5583	#29-5366	#30-5697
#31-5654	#32-5498	#33-5720	#34-5301	#35-5686	#36-5335	#37-5377	#38-5591	#39-5278	#40-5471
#41-5403	#42-5273	#43-5340	#44-5325	#45-5252	#46-5501	#47-5373	#48-5601	#49-5553	#50-5360
#51-5516	#52-5593	#53-5491	#54-5523	#55-5327	#56-5509	#57-5260	#58-5375	#59-5271	#60-5709
#61-5560	#62-5648	#63-5293	#64-5298	#65-5643	#66-5606	#67-5603	#68-5492	#69-5659	#70-5322
#71-5645	#72-5391	#73-5263	#74-5714	#75-5345	#76-5671	#77-5344	#78-5465	#79-5255	#80-5718
#81-5599	#82-5352	#83-5285	#84-5262	#85-5437	#86-5320	#87-5259	#88-5453	#89-5694	#90-5436
#91-5334	#92-5258	#93-5574	#94-5304	#95-5640	#96-5482	#97-5705	#98-5305	#99-5415	#100-5386

Type 6 #21 [Back to Summary]									
#01-5624	#02-5600	#03-5664	#04-5480	#05-5436	#06-5375	#07-5578	#08-5503	#09-5428	#10-5376
#11-5416	#12-5517	#13-5365	#14-5273	#15-5357	#16-5459	#17-5619	#18-5280	#19-5587	#20-5579
#21-5597	#22-5399	#23-5523	#24-5477	#25-5717	#26-5642	#27-5539	#28-5693	#29-5319	#30-5584
#31-5690	#32-5294	#33-5309	#34-5605	#35-5343	#36-5722	#37-5407	#38-5522	#39-5544	#40-5304
#41-5458	#42-5476	#43-5268	#44-5570	#45-5262	#46-5535	#47-5614	#48-5548	#49-5660	#50-5432
#51-5589	#52-5678	#53-5430	#54-5551	#55-5500	#56-5470	#57-5328	#58-5434	#59-5488	#60-5521
#61-5563	#62-5616	#63-5425	#64-5569	#65-5405	#66-5368	#67-5452	#68-5489	#69-5656	#70-5355
#71-5297	#72-5340	#73-5457	#74-5531	#75-5364	#76-5363	#77-5379	#78-5679	#79-5463	#80-5427
#81-5276	#82-5715	#83-5282	#84-5620	#85-5721	#86-5260	#87-5591	#88-5484	#89-5346	#90-5602
#91-5647	#92-5697	#93-5284	#94-5270	#95-5467	#96-5573	#97-5296	#98-5421	#99-5406	#100-5623

Type 6 #22 [Back to Summary]									
#01-5329	#02-5372	#03-5620	#04-5546	#05-5385	#06-5493	#07-5468	#08-5629	#09-5433	#10-5386
#11-5343	#12-5378	#13-5699	#14-5306	#15-5497	#16-5574	#17-5580	#18-5544	#19-5573	#20-5400
#21-5512	#22-5697	#23-5390	#24-5304	#25-5445	#26-5326	#27-5309	#28-5439	#29-5311	#30-5524
#31-5321	#32-5680	#33-5520	#34-5577	#35-5352	#36-5635	#37-5346	#38-5464	#39-5480	#40-5482
#41-5525	#42-5685	#43-5295	#44-5689	#45-5504	#46-5517	#47-5722	#48-5702	#49-5503	#50-5621
#51-5718	#52-5474	#53-5582	#54-5258	#55-5354	#56-5358	#57-5706	#58-5564	#59-5351	#60-5300
#61-5431	#62-5277	#63-5568	#64-5640	#65-5314	#66-5394	#67-5591	#68-5376	#69-5678	#70-5592
#71-5476	#72-5366	#73-5315	#74-5342	#75-5608	#76-5554	#77-5649	#78-5427	#79-5533	#80-5656
#81-5330	#82-5333	#83-5661	#84-5419	#85-5530	#86-5571	#87-5350	#88-5508	#89-5467	#90-5719
#91-5651	#92-5507	#93-5361	#94-5422	#95-5288	#96-5489	#97-5370	#98-5392	#99-5626	#100-5363

Type 6 #23 [Back to Summary]									
#01-5653	#02-5596	#03-5270	#04-5639	#05-5392	#06-5601	#07-5410	#08-5483	#09-5377	#10-5526
#11-5435	#12-5530	#13-5282	#14-5423	#15-5699	#16-5347	#17-5344	#18-5398	#19-5360	#20-5472
#21-5289	#22-5327	#23-5631	#24-5687	#25-5664	#26-5695	#27-5256	#28-5618	#29-5298	#30-5367
#31-5437	#32-5511	#33-5531	#34-5420	#35-5251	#36-5462	#37-5315	#38-5271	#39-5276	#40-5650
#41-5413	#42-5592	#43-5382	#44-5670	#45-5538	#46-5372	#47-5480	#48-5662	#49-5453	#50-5674
#51-5397	#52-5698	#53-5278	#54-5406	#55-5324	#56-5576	#57-5692	#58-5310	#59-5704	#60-5429
#61-5595	#62-5519	#63-5443	#64-5263	#65-5345	#66-5648	#67-5250	#68-5588	#69-5428	#70-5496
#71-5288	#72-5329	#73-5378	#74-5446	#75-5314	#76-5431	#77-5676	#78-5688	#79-5408	#80-5549
#81-5478	#82-5322	#83-5430	#84-5355	#85-5700	#86-5471	#87-5493	#88-5380	#89-5350	#90-5409
#91-5504	#92-5257	#93-5297	#94-5581	#95-5307	#96-5621	#97-5415	#98-5370	#99-5579	#100-5612

Type 6 #24 [Back to Summary]									
#01-5369	#02-5610	#03-5489	#04-5683	#05-5637	#06-5318	#07-5572	#08-5564	#09-5341	#10-5625
#11-5624	#12-5254	#13-5630	#14-5408	#15-5678	#16-5523	#17-5344	#18-5334	#19-5292	#20-5604
#21-5418	#22-5597	#23-5491	#24-5270	#25-5723	#26-5279	#27-5282	#28-5519	#29-5384	#30-5420
#31-5267	#32-5558	#33-5365	#34-5520	#35-5427	#36-5584	#37-5554	#38-5463	#39-5440	#40-5631
#41-5614	#42-5645	#43-5285	#44-5446	#45-5501	#46-5486	#47-5351	#48-5611	#49-5626	#50-5502
#51-5524	#52-5319	#53-5323	#54-5695	#55-5439	#56-5493	#57-5368	#58-5469	#59-5687	#60-5607
#61-5289	#62-5303	#63-5434	#64-5654	#65-5608	#66-5315	#67-5618	#68-5362	#69-5710	#70-5346
#71-5698	#72-5602	#73-5623	#74-5392	#75-5718	#76-5499	#77-5562	#78-5298	#79-5490	#80-5481
#81-5657	#82-5395	#83-5622	#84-5598	#85-5619	#86-5674	#87-5479	#88-5393	#89-5328	#90-5658
#91-5461	#92-5335	#93-5504	#94-5550	#95-5582	#96-5555	#97-5452	#98-5357	#99-5557	#100-5430

Type 6 #25 [Back to Summary]									
#01-5596	#02-5714	#03-5625	#04-5528	#05-5530	#06-5640	#07-5419	#08-5656	#09-5699	#10-5663
#11-5650	#12-5318	#13-5698	#14-5445	#15-5677	#16-5611	#17-5400	#18-5550	#19-5278	#20-5657
#21-5548	#22-5467	#23-5280	#24-5304	#25-5597	#26-5605	#27-5351	#28-5316	#29-5520	#30-5404
#31-5292	#32-5454	#33-5458	#34-5308	#35-5612	#36-5664	#37-5491	#38-5342	#39-5323	#40-5704
#41-5498	#42-5552	#43-5416	#44-5387	#45-5251	#46-5395	#47-5360	#48-5303	#49-5598	#50-5695
#51-5406	#52-5624	#53-5330	#54-5623	#55-5602	#56-5373	#57-5683	#58-5566	#59-5649	#60-5643
#61-5532	#62-5353	#63-5379	#64-5538	#65-5616	#66-5442	#67-5577	#68-5638	#69-5554	#70-5263
#71-5370	#72-5311	#73-5479	#74-5297	#75-5409	#76-5724	#77-5300	#78-5610	#79-5301	#80-5453
#81-5496	#82-5295	#83-5440	#84-5551	#85-5252	#86-5392	#87-5378	#88-5558	#89-5429	#90-5489
#91-5707	#92-5648	#93-5415	#94-5401	#95-5420	#96-5397	#97-5428	#98-5595	#99-5495	#100-5527

Type 6 #26 [Back to Summary]									
#01-5538	#02-5443	#03-5469	#04-5586	#05-5574	#06-5341	#07-5393	#08-5278	#09-5468	#10-5609
#11-5320	#12-5317	#13-5518	#14-5449	#15-5397	#16-5491	#17-5640	#18-5552	#19-5543	#20-5479
#21-5315	#22-5273	#23-5465	#24-5321	#25-5284	#26-5448	#27-5628	#28-5334	#29-5614	#30-5260
#31-5554	#32-5427	#33-5372	#34-5501	#35-5647	#36-5306	#37-5560	#38-5585	#39-5707	#40-5638
#41-5722	#42-5351	#43-5344	#44-5546	#45-5419	#46-5643	#47-5382	#48-5692	#49-5254	#50-5656
#51-5487	#52-5602	#53-5308	#54-5266	#55-5464	#56-5516	#57-5703	#58-5401	#59-5556	#60-5377
#61-5444	#62-5312	#63-5396	#64-5459	#65-5307	#66-5623	#67-5676	#68-5271	#69-5534	#70-5345
#71-5664	#72-5305	#73-5573	#74-5636	#75-5485	#76-5695	#77-5662	#78-5649	#79-5625	#80-5371
#81-5319	#82-5661	#83-5330	#84-5685	#85-5502	#86-5677	#87-5369	#88-5357	#89-5282	#90-5383
#91-5332	#92-5410	#93-5277	#94-5582	#95-5441	#96-5663	#97-5682	#98-5607	#99-5490	#100-5526

Type 6 #27 [Back to Summary]									
#01-5690	#02-5360	#03-5408	#04-5638	#05-5717	#06-5429	#07-5280	#08-5401	#09-5510	#10-5495
#11-5580	#12-5307	#13-5499	#14-5432	#15-5309	#16-5514	#17-5709	#18-5437	#19-5680	#20-5357
#21-5502	#22-5569	#23-5713	#24-5403	#25-5261	#26-5506	#27-5277	#28-5712	#29-5445	#30-5548
#31-5264	#32-5300	#33-5410	#34-5350	#35-5406	#36-5678	#37-5501	#38-5415	#39-5688	#40-5322
#41-5642	#42-5689	#43-5570	#44-5516	#45-5525	#46-5270	#47-5628	#48-5574	#49-5523	#50-5651
#51-5670	#52-5488	#53-5649	#54-5375	#55-5273	#56-5370	#57-5371	#58-5253	#59-5624	#60-5462
#61-5398	#62-5293	#63-5681	#64-5686	#65-5479	#66-5534	#67-5618	#68-5395	#69-5276	#70-5352
#71-5262	#72-5550	#73-5471	#74-5609	#75-5441	#76-5539	#77-5724	#78-5452	#79-5605	#80-5715
#81-5598	#82-5428	#83-5443	#84-5518	#85-5595	#86-5493	#87-5368	#88-5285	#89-5327	#90-5288
#91-5561	#92-5494	#93-5513	#94-5476	#95-5644	#96-5602	#97-5257	#98-5606	#99-5286	#100-5714

Type 6 #28 [Back to Summary]									
#01-5373	#02-5482	#03-5548	#04-5417	#05-5641	#06-5376	#07-5272	#08-5291	#09-5664	#10-5464
#11-5370	#12-5646	#13-5371	#14-5635	#15-5586	#16-5696	#17-5572	#18-5416	#19-5339	#20-5709
#21-5409	#22-5590	#23-5320	#24-5715	#25-5518	#26-5491	#27-5285	#28-5717	#29-5689	#30-5560
#31-5525	#32-5366	#33-5419	#34-5615	#35-5592	#36-5364	#37-5607	#38-5274	#39-5598	#40-5469
#41-5473	#42-5329	#43-5342	#44-5587	#45-5638	#46-5637	#47-5375	#48-5599	#49-5616	#50-5674
#51-5277	#52-5561	#53-5510	#54-5298	#55-5552	#56-5503	#57-5407	#58-5553	#59-5623	#60-5397
#61-5337	#62-5279	#63-5323	#64-5350	#65-5663	#66-5251	#67-5477	#68-5479	#69-5293	#70-5466
#71-5335	#72-5545	#73-5539	#74-5596	#75-5484	#76-5326	#77-5497	#78-5455	#79-5324	#80-5609
#81-5368	#82-5413	#83-5351	#84-5264	#85-5534	#86-5686	#87-5580	#88-5374	#89-5308	#90-5336
#91-5685	#92-5301	#93-5385	#94-5452	#95-5387	#96-5447	#97-5255	#98-5719	#99-5656	#100-5642

Type 6 #29 [Back to Summary]									
#01-5410	#02-5619	#03-5557	#04-5397	#05-5588	#06-5456	#07-5274	#08-5644	#09-5539	#10-5478
#11-5259	#12-5677	#13-5480	#14-5267	#15-5283	#16-5655	#17-5656	#18-5310	#19-5542	#20-5702
#21-5395	#22-5359	#23-5420	#24-5682	#25-5509	#26-5287	#27-5422	#28-5342	#29-5467	#30-5292
#31-5324	#32-5506	#33-5533	#34-5416	#35-5448	#36-5475	#37-5581	#38-5678	#39-5402	#40-5328
#41-5661	#42-5663	#43-5555	#44-5559	#45-5326	#46-5256	#47-5547	#48-5362	#49-5421	#50-5452
#51-5517	#52-5674	#53-5427	#54-5676	#55-5492	#56-5302	#57-5451	#58-5604	#59-5615	#60-5556
#61-5286	#62-5658	#63-5428	#64-5502	#65-5405	#66-5484	#67-5391	#68-5316	#69-5550	#70-5536
#71-5327	#72-5706	#73-5631	#74-5466	#75-5293	#76-5461	#77-5532	#78-5594	#79-5609	#80-5504
#81-5464	#82-5311	#83-5649	#84-5265	#85-5503	#86-5373	#87-5333	#88-5586	#89-5651	#90-5390
#91-5272	#92-5705	#93-5314	#94-5579	#95-5291	#96-5251	#97-5489	#98-5306	#99-5399	#100-5576

Type 6 #30 [Back to Summary]									
#01-5586	#02-5478	#03-5538	#04-5610	#05-5373	#06-5534	#07-5291	#08-5684	#09-5633	#10-5280
#11-5494	#12-5584	#13-5720	#14-5360	#15-5337	#16-5700	#17-5258	#18-5410	#19-5724	#20-5283
#21-5401	#22-5539	#23-5392	#24-5402	#25-5510	#26-5348	#27-5641	#28-5306	#29-5427	#30-5290
#31-5697	#32-5477	#33-5442	#34-5285	#35-5642	#36-5709	#37-5497	#38-5289	#39-5616	#40-5688
#41-5333	#42-5372	#43-5670	#44-5617	#45-5622	#46-5415	#47-5705	#48-5673	#49-5486	#50-5316
#51-5716	#52-5326	#53-5305	#54-5367	#55-5422	#56-5298	#57-5341	#58-5391	#59-5352	#60-5273
#61-5615	#62-5710	#63-5512	#64-5591	#65-5310	#66-5267	#67-5400	#68-5680	#69-5451	#70-5357
#71-5460	#72-5691	#73-5522	#74-5282	#75-5669	#76-5278	#77-5589	#78-5502	#79-5506	#80-5353
#81-5375	#82-5685	#83-5546	#84-5365	#85-5300	#86-5621	#87-5431	#88-5329	#89-5590	#90-5593
#91-5623	#92-5364	#93-5660	#94-5583	#95-5324	#96-5350	#97-5580	#98-5332	#99-5560	#100-5602

Type 5 #1 5495 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	3	7	912121	80	1827	1358	284454	1200000
2	2	7	786161	83	1163	0	412510	1200000
3	2	7	344195	77	1938	0	853713	1200000
4	2	7	900849	56	1998	0	297041	1200000
5	2	7	908004	96	1862	0	289942	1200000
6	1	7	347402	79	0	0	852519	1200000
7	1	7	685179	74	0	0	514747	1200000
8	1	7	1094445	89	0	0	105466	1200000
9	1	7	665861	70	0	0	534069	1200000
10	3	7	599809	75	1567	1458	596941	1200000

Type 5 #2 5495 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	2	8	537303	58	1682	0	60899	600000
2	2	8	523796	82	1888	0	74152	600000
3	2	8	379023	58	1874	0	218987	600000
4	3	8	173025	70	1465	1804	423496	600000
5	1	8	177552	86	0	0	422362	600000
6	1	8	227133	81	0	0	372786	600000
7	2	8	298123	64	1759	0	299990	600000
8	1	8	549958	57	0	0	49985	600000
9	1	8	483178	95	0	0	116727	600000
10	1	8	237241	53	0	0	362706	600000
11	2	8	288129	58	1869	0	309886	600000
12	2	8	127483	72	1351	0	471022	600000
13	2	8	488978	63	1670	0	109226	600000
14	1	8	354226	76	0	0	245698	600000
15	2	8	296057	82	1376	0	302403	600000
16	3	8	290873	75	1450	1922	305530	600000
17	1	8	541413	82	0	0	58505	600000
18	2	8	522184	73	1749	0	75921	600000
19	3	8	405788	66	1182	1586	191246	600000
20	3	8	175369	62	1125	1067	422253	600000

Type 5 #3 5510 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	2	10	625607	85	1989	0	572234	1200000
2	2	10	8522	71	1148	0	1190188	1200000
3	3	10	240467	73	1346	1275	956693	1200000
4	3	10	977610	63	1456	1790	218955	1200000
5	3	10	231902	62	1324	1854	964734	1200000
6	1	10	173350	57	0	0	1026593	1200000
7	1	10	344092	56	0	0	855852	1200000
8	3	10	958858	83	1794	1673	237426	1200000
9	3	10	547439	92	1477	1657	649151	1200000
10	3	10	501644	93	1642	1307	695128	1200000

Type 5 #4 5522 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	2	15	228252	61	1145	0	476363	705882
2	2	15	170433	63	1225	0	534098	705882
3	1	15	554151	59	0	0	151672	705882
4	2	15	542629	53	1969	0	161178	705882
5	3	15	354612	56	1653	1429	348020	705882
6	2	15	573862	93	1794	0	130040	705882
7	2	15	192457	57	1891	0	511420	705882
8	3	15	283002	83	1162	1505	419964	705882
9	2	15	319883	78	1524	0	384319	705882
10	3	15	562512	76	1791	1425	139926	705882
11	3	15	3041	55	1536	1747	699393	705882
12	1	15	326702	98	0	0	379082	705882
13	2	15	209657	54	1789	0	494328	705882
14	2	15	568362	76	1697	0	135671	705882
15	2	15	69125	96	1265	0	635300	705882
16	3	15	2274	80	1050	1542	700776	705882
17	1	15	118997	61	0	0	586824	705882

Type 5 #5 5500 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	2	20	350038	53	1940	0	397916	750000
2	3	20	70118	68	1156	1486	677036	750000
3	1	20	40775	90	0	0	709135	750000
4	3	20	97361	95	1649	1898	648807	750000
5	2	20	649805	73	1458	0	98591	750000
6	1	20	569681	50	0	0	180269	750000
7	3	20	632766	78	1756	1824	113420	750000
8	1	20	127532	87	0	0	622381	750000
9	1	20	241165	95	0	0	508740	750000
10	3	20	718267	59	1436	1384	28736	750000
11	3	20	115496	94	1231	1245	631746	750000
12	2	20	450752	74	1527	0	297573	750000
13	2	20	393441	83	1728	0	354665	750000
14	1	20	156638	99	0	0	593263	750000
15	2	20	127300	58	1017	0	621567	750000
16	1	20	412330	67	0	0	337603	750000

Type 5 #6 5510 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	1	6	779234	67	0	0	20699	800000
2	3	6	453654	61	1845	1203	343115	800000
3	3	6	741618	62	1328	1299	55569	800000
4	2	6	415734	54	1906	0	382252	800000
5	3	6	388862	75	1076	1616	408221	800000
6	3	6	85402	67	1169	1851	711377	800000
7	2	6	792257	96	1188	0	6363	800000
8	2	6	789441	100	1663	0	8696	800000
9	1	6	16366	64	0	0	783570	800000
10	3	6	791286	58	1258	1958	5324	800000
11	1	6	667631	77	0	0	132292	800000
12	2	6	730158	68	1010	0	68696	800000
13	3	6	532824	93	1718	1426	263753	800000
14	2	6	482023	60	1175	0	316682	800000
15	3	6	629356	90	1553	1874	166947	800000

Type 5 #7 5510 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	1	8	149102	73	0	0	1184158	1333333
2	3	8	321149	68	1320	1634	1009026	1333333
3	3	8	1140614	55	1124	1441	189989	1333333
4	2	8	631327	72	1969	0	699893	1333333
5	1	8	1327594	53	0	0	5686	1333333
6	2	8	300133	74	1645	0	1031407	1333333
7	1	8	868090	57	0	0	465186	1333333
8	2	8	952735	99	1120	0	379280	1333333
9	3	8	52677	93	1850	1130	1277397	1333333

Type 5 #8 5524 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	1	11	522174	90	0	0	183618	705882
2	1	11	82769	70	0	0	623043	705882
3	1	11	637466	94	0	0	68322	705882
4	1	11	226124	57	0	0	479701	705882
5	2	11	561795	96	1900	0	141995	705882
6	3	11	271018	56	1228	1624	431844	705882
7	1	11	413561	77	0	0	292244	705882
8	3	11	552732	99	1792	1882	149179	705882
9	3	11	294733	70	1564	1406	407969	705882
10	3	11	304730	59	1949	1884	397142	705882
11	1	11	20736	63	0	0	685083	705882
12	1	11	475552	82	0	0	230248	705882
13	3	11	403882	55	1191	1013	299631	705882
14	3	11	191764	64	1959	1937	510030	705882
15	1	11	354309	77	0	0	351496	705882
16	2	11	107005	66	1357	0	597388	705882
17	1	11	605398	84	0	0	100400	705882

Type 5 #9 5500 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	1	19	12906	71	0	0	737023	750000
2	3	19	559216	61	1550	1954	187097	750000
3	3	19	128820	61	1012	1428	618557	750000
4	2	19	527457	86	1493	0	220878	750000
5	1	19	541536	57	0	0	208407	750000
6	2	19	119973	57	1156	0	628757	750000
7	1	19	2848	85	0	0	747067	750000
8	1	19	388154	93	0	0	361753	750000
9	3	19	425690	64	1785	1376	320957	750000
10	2	19	450690	92	1662	0	297464	750000
11	2	19	744246	91	1639	0	3933	750000
12	1	19	114217	94	0	0	635689	750000
13	1	19	295662	68	0	0	454270	750000
14	1	19	1468	86	0	0	748446	750000
15	3	19	60561	50	1129	1395	686765	750000
16	3	19	437037	60	1909	1327	309547	750000

Type 5 #10 5510 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	2	20	619300	84	1595	0	178937	800000
2	2	20	323219	80	1436	0	475185	800000
3	1	20	628255	69	0	0	171676	800000
4	1	20	523643	73	0	0	276284	800000
5	2	20	553148	60	1072	0	245660	800000
6	3	20	71451	54	1902	1086	725399	800000
7	2	20	288352	79	1555	0	509935	800000
8	2	20	187522	88	1407	0	610895	800000
9	3	20	2287	90	1147	1861	794435	800000
10	2	20	485270	64	1004	0	313598	800000
11	1	20	280210	56	0	0	519734	800000
12	3	20	695844	81	1991	1708	100214	800000
13	2	20	657753	97	1347	0	140706	800000
14	2	20	316561	78	1687	0	481596	800000
15	1	20	630224	60	0	0	169716	800000

Type 5 #11 5510 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	2	14	243551	54	1233	0	386686	631578
2	2	14	475266	76	1488	0	154672	631578
3	3	14	548039	85	1478	1361	80445	631578
4	3	14	374097	52	1722	1350	254253	631578
5	2	14	445559	52	1557	0	184358	631578
6	1	14	465944	97	0	0	165537	631578
7	3	14	435264	92	1626	1251	193161	631578
8	3	14	139946	72	1363	1127	488926	631578
9	3	14	263197	82	1350	1728	365057	631578
10	2	14	336760	56	1831	0	292875	631578
11	2	14	584289	51	1500	0	45687	631578
12	2	14	311996	88	1282	0	318124	631578
13	1	14	539323	96	0	0	92159	631578
14	1	14	592796	55	0	0	38727	631578
15	2	14	234738	68	1222	0	395482	631578
16	3	14	520331	70	1207	1083	108747	631578
17	2	14	183448	93	1906	0	446038	631578
18	1	14	319128	61	0	0	312389	631578
19	3	14	458321	93	1611	1846	169521	631578

Type 5 #12 5496 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	2	9	186779	59	1219	0	411884	600000
2	3	9	293499	83	1587	1782	302883	600000
3	1	9	389340	73	0	0	210587	600000
4	1	9	498905	75	0	0	101020	600000
5	3	9	447101	68	1675	1999	149021	600000
6	2	9	406669	69	1643	0	191550	600000
7	3	9	393617	60	1702	1520	202981	600000
8	3	9	100255	67	1980	1316	496248	600000
9	3	9	218231	61	1367	1506	378713	600000
10	1	9	535695	77	0	0	64228	600000
11	1	9	413508	53	0	0	186439	600000
12	1	9	562384	73	0	0	37543	600000
13	1	9	61882	50	0	0	538068	600000
14	3	9	591075	64	1403	1937	5393	600000
15	2	9	192200	57	1605	0	406081	600000
16	1	9	232736	98	0	0	367166	600000
17	1	9	338086	100	0	0	261814	600000
18	3	9	343757	72	1842	1160	253025	600000
19	2	9	26366	73	1221	0	572267	600000
20	3	9	49737	78	1841	1620	546568	600000

Type 5 #13 5526 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	1	6	1007455	77	0	0	325801	1333333
2	3	6	406579	70	1078	1076	924390	1333333
3	2	6	165186	80	1658	0	1166329	1333333
4	3	6	146531	68	1766	1519	1183313	1333333
5	2	6	443211	76	1768	0	888202	1333333
6	2	6	1024338	65	1139	0	307726	1333333
7	2	6	834134	80	1354	0	497685	1333333
8	3	6	1272936	91	1615	1060	57449	1333333
9	1	6	313276	85	0	0	1019972	1333333

Type 5 #14 5497 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	2	12	20280	96	1981	0	1310880	1333333
2	3	12	1247686	70	1402	1865	82170	1333333
3	2	12	403899	77	1980	0	927300	1333333
4	2	12	201722	75	1860	0	1129601	1333333
5	2	12	1107297	53	1154	0	224776	1333333
6	2	12	459046	55	1371	0	872806	1333333
7	3	12	498407	72	1284	1899	831527	1333333
8	3	12	261122	81	1931	1415	1068622	1333333
9	2	12	163120	50	1681	0	1168432	1333333

Type 5 #15 5510 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	1	13	709715	55	0	0	147372	857142
2	1	13	248253	59	0	0	608830	857142
3	1	13	118009	70	0	0	739063	857142
4	3	13	651102	62	1080	1305	203469	857142
5	3	13	592086	97	1127	1940	261698	857142
6	1	13	466201	90	0	0	390851	857142
7	3	13	764138	86	1955	1884	88907	857142
8	3	13	363821	90	1846	1548	489657	857142
9	2	13	804755	56	1180	0	51095	857142
10	3	13	624637	86	1899	1041	229307	857142
11	3	13	728373	79	1551	1422	125559	857142
12	1	13	434681	85	0	0	422376	857142
13	3	13	700344	70	1319	1455	153814	857142
14	1	13	394424	65	0	0	462653	857142

Type 5 #16 5499 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	2	17	1169090	88	1253	0	329481	1500000
2	2	17	465407	98	1983	0	1032414	1500000
3	3	17	1283462	74	1558	1934	212824	1500000
4	1	17	1078444	96	0	0	421460	1500000
5	3	17	895940	66	1391	1063	601408	1500000
6	3	17	366770	73	1349	1549	1130113	1500000
7	2	17	656546	82	1376	0	841914	1500000
8	2	17	506273	87	1262	0	992291	1500000

Type 5 #17 5510 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	3	10	199256	76	1098	1543	503757	705882
2	3	10	128151	57	1363	1190	575007	705882
3	3	10	368166	74	1633	1665	334196	705882
4	1	10	202678	97	0	0	503107	705882
5	2	10	185658	85	1192	0	518862	705882
6	2	10	18743	54	1155	0	685876	705882
7	3	10	399001	69	1699	1825	303150	705882
8	3	10	174112	57	1738	1233	528628	705882
9	3	10	405121	77	1507	1972	297051	705882
10	1	10	580424	76	0	0	125382	705882
11	3	10	598112	74	1105	1405	105038	705882
12	1	10	146823	69	0	0	558990	705882
13	1	10	262937	71	0	0	442874	705882
14	3	10	644204	91	1214	1633	58558	705882
15	1	10	121379	66	0	0	584437	705882
16	3	10	363637	83	1090	1291	339615	705882
17	1	10	23926	74	0	0	681882	705882

Type 5 #18 5520 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	1	20	999644	68	0	0	200288	1200000
2	1	20	162401	77	0	0	1037522	1200000
3	1	20	484574	95	0	0	715331	1200000
4	3	20	1118050	82	1636	1480	78588	1200000
5	2	20	665131	85	1759	0	532940	1200000
6	2	20	352448	54	1692	0	845752	1200000
7	3	20	929348	79	1088	1168	268159	1200000
8	3	20	243886	91	1143	1414	953284	1200000
9	2	20	185932	98	1104	0	1012768	1200000
10	3	20	1171004	84	1836	1398	25510	1200000

Type 5 #19 5521 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	2	17	852670	87	1378	0	68854	923076
2	2	17	909965	81	1808	0	11141	923076
3	1	17	311294	92	0	0	611690	923076
4	3	17	574949	92	1462	1273	345116	923076
5	2	17	99852	69	1374	0	821712	923076
6	3	17	833030	85	1592	1302	86897	923076
7	2	17	619736	70	1010	0	302190	923076
8	3	17	106564	81	1507	1613	813149	923076
9	3	17	701302	87	1657	1995	217861	923076
10	1	17	221953	98	0	0	701025	923076
11	2	17	340856	89	1179	0	580863	923076
12	2	17	22623	74	1028	0	899277	923076
13	2	17	400878	70	1082	0	520976	923076

Type 5 #20 5521 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	1	17	265034	56	0	0	366488	631578
2	2	17	589461	67	1113	0	40870	631578
3	2	17	124442	67	1870	0	505132	631578
4	2	17	223340	92	1236	0	406818	631578
5	1	17	293730	74	0	0	337774	631578
6	2	17	353670	78	1646	0	276106	631578
7	3	17	298095	97	1003	1847	330342	631578
8	1	17	534559	82	0	0	96937	631578
9	3	17	369977	50	1370	1716	258365	631578
10	1	17	155511	77	0	0	475990	631578
11	3	17	453951	99	1601	1850	173879	631578
12	1	17	573228	61	0	0	58289	631578
13	3	17	5521	100	1138	1553	623066	631578
14	2	17	411	75	1800	0	629217	631578
15	1	17	365698	58	0	0	265822	631578
16	2	17	552958	88	1763	0	76681	631578
17	2	17	485485	51	1226	0	144765	631578
18	3	17	116994	66	1153	1092	512141	631578
19	3	17	553588	98	1758	1985	73953	631578

Type 5 #21 5498 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	1	16	604942	62	0	0	144996	750000
2	1	16	722885	63	0	0	27052	750000
3	2	16	626156	99	1796	0	121850	750000
4	3	16	210231	58	1785	1730	536080	750000
5	2	16	39803	73	1004	0	709047	750000
6	2	16	706159	70	1854	0	41847	750000
7	2	16	217264	77	1724	0	530858	750000
8	3	16	658862	86	1987	1000	87893	750000
9	3	16	227581	69	1661	1999	518552	750000
10	1	16	23721	98	0	0	726181	750000
11	2	16	211813	51	1872	0	536213	750000
12	1	16	296509	61	0	0	453430	750000
13	3	16	319170	71	1963	1019	427635	750000
14	1	16	582275	83	0	0	167642	750000
15	2	16	299920	90	1730	0	448170	750000
16	3	16	79236	53	1344	1030	668231	750000

Type 5 #22 5523 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	3	13	344475	77	1007	1774	985846	1333333
2	2	13	488286	66	1462	0	843453	1333333
3	3	13	235564	79	1091	1645	1094796	1333333
4	1	13	601018	61	0	0	732254	1333333
5	2	13	247712	76	1217	0	1084252	1333333
6	3	13	145414	64	1542	1517	1184668	1333333
7	3	13	1294	95	1220	1117	1329417	1333333
8	3	13	29562	77	1123	1255	1301162	1333333
9	3	13	872486	81	1458	1799	457347	1333333

Type 5 #23 5524 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	1	11	482082	90	0	0	1017828	1500000
2	2	11	742764	66	1772	0	755332	1500000
3	1	11	1307434	96	0	0	192470	1500000
4	2	11	1040115	53	1176	0	458603	1500000
5	2	11	775802	59	1534	0	722546	1500000
6	1	11	1242220	87	0	0	257693	1500000
7	3	11	1233354	90	1731	1432	263213	1500000
8	3	11	178522	54	1749	1107	1318460	1500000

Type 5 #24 5498 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	3	16	151848	97	1934	1591	767412	923076
2	3	16	251226	91	1882	1846	667849	923076
3	2	16	816961	80	1381	0	104574	923076
4	1	16	468867	88	0	0	454121	923076
5	3	16	645131	51	1436	1316	275040	923076
6	2	16	893232	90	1711	0	27953	923076
7	1	16	102469	77	0	0	820530	923076
8	3	16	542027	65	1243	1566	378045	923076
9	3	16	24736	100	1561	1476	895003	923076
10	3	16	568780	66	1599	1841	350658	923076
11	1	16	459802	97	0	0	463177	923076
12	1	16	378894	74	0	0	544108	923076
13	1	16	520014	58	0	0	403004	923076

Type 5 #25 5522 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	3	14	27769	60	1378	1919	768754	800000
2	3	14	378257	92	1601	1674	418192	800000
3	1	14	366233	85	0	0	433682	800000
4	1	14	318062	50	0	0	481888	800000
5	1	14	30239	88	0	0	769673	800000
6	2	14	221946	89	1690	0	576186	800000
7	2	14	7680	69	1467	0	790715	800000
8	3	14	689358	78	1240	1292	107876	800000
9	2	14	458363	72	1880	0	339613	800000
10	2	14	592663	53	1605	0	205626	800000
11	3	14	115858	82	1058	1198	681640	800000
12	1	14	110099	67	0	0	689834	800000
13	2	14	237633	94	1563	0	560616	800000
14	2	14	513113	88	1102	0	285609	800000
15	1	14	279760	51	0	0	520189	800000

Type 5 #26 5510 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	3	5	626350	54	1641	1536	227453	857142
2	2	5	400616	76	1442	0	454932	857142
3	3	5	745482	97	1891	1519	107959	857142
4	2	5	820121	75	1203	0	35668	857142
5	3	5	606834	86	1524	1745	246781	857142
6	2	5	750507	100	1260	0	105175	857142
7	1	5	203163	71	0	0	653908	857142
8	1	5	825688	83	0	0	31371	857142
9	1	5	149232	83	0	0	707827	857142
10	1	5	712090	54	0	0	144998	857142
11	1	5	700525	86	0	0	156531	857142
12	1	5	213382	61	0	0	643699	857142
13	3	5	86350	50	1843	1066	767733	857142
14	2	5	520354	76	1681	0	334955	857142

Type 5 #27 5500 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	1	19	514919	78	0	0	85003	600000
2	2	19	527674	60	1652	0	70554	600000
3	2	19	368758	63	1019	0	230097	600000
4	1	19	187558	84	0	0	412358	600000
5	1	19	158048	91	0	0	441861	600000
6	1	19	296703	60	0	0	303237	600000
7	1	19	342699	74	0	0	257227	600000
8	2	19	12026	94	1247	0	586539	600000
9	2	19	483518	73	1392	0	114944	600000
10	1	19	427015	74	0	0	172911	600000
11	1	19	247212	75	0	0	352713	600000
12	2	19	498315	90	1249	0	100256	600000
13	1	19	264940	71	0	0	334989	600000
14	1	19	549031	70	0	0	50899	600000
15	1	19	521278	98	0	0	78624	600000
16	2	19	271793	89	1083	0	326946	600000
17	1	19	125275	81	0	0	474644	600000
18	2	19	3621	50	1444	0	594835	600000
19	3	19	191365	89	1882	1987	404499	600000
20	1	19	274256	51	0	0	325693	600000

Type 5 #28 5510 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	1	19	843791	77	0	0	156132	1000000
2	3	19	581763	87	1626	1817	414533	1000000
3	2	19	422382	63	1623	0	575869	1000000
4	2	19	265517	51	1089	0	733292	1000000
5	1	19	990932	59	0	0	9009	1000000
6	2	19	552260	68	1712	0	445892	1000000
7	1	19	598135	93	0	0	401772	1000000
8	1	19	935944	80	0	0	63976	1000000
9	2	19	64708	60	1210	0	933962	1000000
10	3	19	487578	62	1689	1064	509483	1000000
11	1	19	275540	75	0	0	724385	1000000
12	2	19	410514	53	1861	0	587519	1000000

Type 5 #29 5524 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	3	9	586554	87	1001	1668	10516	600000
2	3	9	64435	80	1447	1881	531997	600000
3	3	9	562997	62	1880	1300	33637	600000
4	1	9	25917	80	0	0	574003	600000
5	2	9	448403	54	1530	0	149959	600000
6	1	9	461854	71	0	0	138075	600000
7	1	9	78961	58	0	0	520981	600000
8	2	9	304616	85	1396	0	293818	600000
9	1	9	237259	96	0	0	362645	600000
10	1	9	363644	98	0	0	236258	600000
11	2	9	480535	61	1831	0	117512	600000
12	2	9	542804	61	1766	0	55308	600000
13	1	9	533389	93	0	0	66518	600000
14	1	9	36381	59	0	0	563560	600000
15	3	9	46675	58	1108	1370	550673	600000
16	3	9	105814	86	1509	1140	491279	600000
17	3	9	117894	79	1561	1143	479165	600000
18	2	9	348838	63	1384	0	249652	600000
19	2	9	153986	67	1782	0	444098	600000
20	1	9	342442	60	0	0	257498	600000

Type 5 #30 5510 [Back to Summary]

Burst Segment	Number of Pulses	Chirp Width MHz	t1 usec	Pulse Width (t2) usec	t3 usec	t4 usec	t5 usec	Total Segment Length usec
1	1	15	331623	95	0	0	374164	705882
2	3	15	250810	54	1568	1291	452051	705882
3	3	15	412034	87	1844	1677	290066	705882
4	3	15	309354	51	1832	1820	392723	705882
5	1	15	633353	71	0	0	72458	705882
6	2	15	261164	78	1834	0	442728	705882
7	2	15	604276	85	1603	0	99833	705882
8	2	15	487266	95	1354	0	217072	705882
9	3	15	308622	59	1841	1733	393509	705882
10	2	15	94298	91	1141	0	610261	705882
11	3	15	464808	97	1091	1647	238045	705882
12	3	15	311357	54	1514	1008	391841	705882
13	3	15	239113	70	1049	1240	464270	705882
14	1	15	103787	93	0	0	602002	705882
15	1	15	333295	81	0	0	372506	705882
16	3	15	488445	95	1457	1032	214663	705882
17	3	15	457938	62	1818	1755	244185	705882

Type 6 #1 [Back to Summary]									
#01-5603	#02-5656	#03-5409	#04-5621	#05-5343	#06-5330	#07-5475	#08-5276	#09-5680	#10-5468
#11-5547	#12-5631	#13-5479	#14-5435	#15-5303	#16-5713	#17-5651	#18-5551	#19-5478	#20-5373
#21-5611	#22-5509	#23-5604	#24-5523	#25-5388	#26-5594	#27-5592	#28-5281	#29-5362	#30-5577
#31-5443	#32-5714	#33-5459	#34-5296	#35-5491	#36-5541	#37-5413	#38-5302	#39-5371	#40-5661
#41-5377	#42-5552	#43-5720	#44-5619	#45-5338	#46-5701	#47-5262	#48-5370	#49-5323	#50-5663
#51-5397	#52-5544	#53-5575	#54-5447	#55-5602	#56-5341	#57-5298	#58-5612	#59-5482	#60-5470
#61-5457	#62-5441	#63-5640	#64-5349	#65-5270	#66-5559	#67-5418	#68-5429	#69-5672	#70-5488
#71-5546	#72-5597	#73-5426	#74-5542	#75-5722	#76-5309	#77-5514	#78-5710	#79-5430	#80-5408
#81-5582	#82-5472	#83-5682	#84-5421	#85-5428	#86-5627	#87-5381	#88-5261	#89-5415	#90-5393
#91-5497	#92-5530	#93-5549	#94-5630	#95-5448	#96-5662	#97-5642	#98-5622	#99-5593	#100-5505

Type 6 #2 [Back to Summary]									
#01-5533	#02-5558	#03-5426	#04-5565	#05-5364	#06-5523	#07-5366	#08-5282	#09-5452	#10-5543
#11-5556	#12-5312	#13-5427	#14-5318	#15-5617	#16-5712	#17-5487	#18-5461	#19-5645	#20-5372
#21-5421	#22-5404	#23-5260	#24-5522	#25-5718	#26-5266	#27-5300	#28-5531	#29-5346	#30-5313
#31-5399	#32-5623	#33-5368	#34-5655	#35-5607	#36-5274	#37-5296	#38-5370	#39-5314	#40-5636
#41-5510	#42-5355	#43-5541	#44-5606	#45-5574	#46-5435	#47-5354	#48-5482	#49-5259	#50-5466
#51-5425	#52-5433	#53-5701	#54-5478	#55-5335	#56-5383	#57-5554	#58-5637	#59-5579	#60-5349
#61-5479	#62-5570	#63-5667	#64-5392	#65-5398	#66-5664	#67-5675	#68-5503	#69-5442	#70-5595
#71-5670	#72-5374	#73-5403	#74-5258	#75-5594	#76-5320	#77-5599	#78-5386	#79-5682	#80-5540
#81-5642	#82-5548	#83-5518	#84-5614	#85-5621	#86-5697	#87-5648	#88-5620	#89-5569	#90-5475
#91-5451	#92-5389	#93-5517	#94-5690	#95-5409	#96-5674	#97-5415	#98-5395	#99-5459	#100-5635

Type 6 #3 [Back to Summary]									
#01-5483	#02-5579	#03-5291	#04-5395	#05-5521	#06-5300	#07-5277	#08-5691	#09-5609	#10-5263
#11-5510	#12-5415	#13-5678	#14-5286	#15-5437	#16-5653	#17-5296	#18-5306	#19-5499	#20-5426
#21-5266	#22-5309	#23-5656	#24-5686	#25-5390	#26-5529	#27-5578	#28-5440	#29-5576	#30-5643
#31-5628	#32-5448	#33-5649	#34-5295	#35-5308	#36-5315	#37-5505	#38-5374	#39-5343	#40-5566
#41-5668	#42-5679	#43-5258	#44-5555	#45-5695	#46-5288	#47-5439	#48-5486	#49-5503	#50-5480
#51-5625	#52-5366	#53-5622	#54-5283	#55-5616	#56-5431	#57-5648	#58-5336	#59-5256	#60-5719
#61-5452	#62-5565	#63-5368	#64-5692	#65-5363	#66-5321	#67-5492	#68-5633	#69-5708	#70-5381
#71-5404	#72-5645	#73-5688	#74-5658	#75-5482	#76-5319	#77-5298	#78-5355	#79-5718	#80-5354
#81-5345	#82-5348	#83-5660	#84-5351	#85-5268	#86-5518	#87-5548	#88-5611	#89-5408	#90-5595
#91-5392	#92-5428	#93-5372	#94-5350	#95-5377	#96-5358	#97-5563	#98-5294	#99-5455	#100-5627

Type 6 #4 [Back to Summary]									
#01-5522	#02-5528	#03-5501	#04-5374	#05-5329	#06-5704	#07-5400	#08-5690	#09-5525	#10-5554
#11-5384	#12-5549	#13-5336	#14-5632	#15-5629	#16-5354	#17-5631	#18-5268	#19-5672	#20-5571
#21-5488	#22-5599	#23-5478	#24-5357	#25-5716	#26-5702	#27-5530	#28-5591	#29-5538	#30-5380
#31-5471	#32-5250	#33-5630	#34-5338	#35-5552	#36-5534	#37-5565	#38-5531	#39-5265	#40-5288
#41-5362	#42-5582	#43-5339	#44-5574	#45-5457	#46-5562	#47-5331	#48-5453	#49-5437	#50-5261
#51-5442	#52-5543	#53-5345	#54-5603	#55-5388	#56-5651	#57-5294	#58-5395	#59-5385	#60-5351
#61-5423	#62-5533	#63-5404	#64-5394	#65-5322	#66-5387	#67-5647	#68-5722	#69-5324	#70-5341
#71-5514	#72-5347	#73-5254	#74-5640	#75-5461	#76-5641	#77-5508	#78-5639	#79-5623	#80-5409
#81-5619	#82-5318	#83-5408	#84-5527	#85-5668	#86-5663	#87-5633	#88-5282	#89-5682	#90-5634
#91-5490	#92-5424	#93-5402	#94-5643	#95-5592	#96-5557	#97-5432	#98-5677	#99-5493	#100-5320

Type 6 #5 [Back to Summary]									
#01-5645	#02-5338	#03-5379	#04-5348	#05-5472	#06-5347	#07-5540	#08-5437	#09-5391	#10-5479
#11-5389	#12-5385	#13-5500	#14-5706	#15-5461	#16-5345	#17-5380	#18-5599	#19-5456	#20-5396
#21-5485	#22-5611	#23-5290	#24-5425	#25-5578	#26-5340	#27-5673	#28-5337	#29-5291	#30-5630
#31-5458	#32-5565	#33-5392	#34-5548	#35-5489	#36-5533	#37-5672	#38-5301	#39-5305	#40-5570
#41-5369	#42-5446	#43-5622	#44-5454	#45-5498	#46-5356	#47-5653	#48-5421	#49-5431	#50-5502
#51-5427	#52-5564	#53-5474	#54-5351	#55-5580	#56-5282	#57-5293	#58-5685	#59-5507	#60-5377
#61-5404	#62-5452	#63-5397	#64-5497	#65-5268	#66-5560	#67-5721	#68-5681	#69-5480	#70-5659
#71-5405	#72-5321	#73-5547	#74-5620	#75-5270	#76-5284	#77-5715	#78-5574	#79-5658	#80-5475
#81-5420	#82-5513	#83-5641	#84-5532	#85-5455	#86-5626	#87-5336	#88-5281	#89-5699	#90-5448
#91-5492	#92-5714	#93-5538	#94-5657	#95-5414	#96-5650	#97-5298	#98-5376	#99-5433	#100-5669

Type 6 #6 [Back to Summary]									
#01-5361	#02-5696	#03-5671	#04-5497	#05-5340	#06-5349	#07-5268	#08-5578	#09-5328	#10-5535
#11-5297	#12-5456	#13-5276	#14-5280	#15-5684	#16-5623	#17-5536	#18-5593	#19-5287	#20-5379
#21-5460	#22-5685	#23-5706	#24-5275	#25-5423	#26-5415	#27-5521	#28-5611	#29-5450	#30-5353
#31-5712	#32-5584	#33-5388	#34-5715	#35-5359	#36-5448	#37-5556	#38-5392	#39-5436	#40-5354
#41-5603	#42-5492	#43-5680	#44-5413	#45-5401	#46-5279	#47-5687	#48-5504	#49-5694	#50-5517
#51-5365	#52-5434	#53-5343	#54-5305	#55-5463	#56-5405	#57-5717	#58-5644	#59-5325	#60-5650
#61-5555	#62-5384	#63-5381	#64-5702	#65-5549	#66-5442	#67-5318	#68-5286	#69-5645	#70-5489
#71-5316	#72-5399	#73-5414	#74-5656	#75-5503	#76-5691	#77-5251	#78-5546	#79-5602	#80-5395
#81-5457	#82-5266	#83-5637	#84-5655	#85-5711	#86-5531	#87-5491	#88-5330	#89-5511	#90-5675
#91-5462	#92-5630	#93-5310	#94-5510	#95-5527	#96-5473	#97-5362	#98-5703	#99-5589	#100-5681

Type 6 #7 [Back to Summary]									
#01-5684	#02-5651	#03-5577	#04-5457	#05-5447	#06-5693	#07-5273	#08-5410	#09-5531	#10-5488
#11-5397	#12-5421	#13-5293	#14-5660	#15-5452	#16-5535	#17-5468	#18-5444	#19-5716	#20-5267
#21-5672	#22-5714	#23-5503	#24-5690	#25-5280	#26-5404	#27-5333	#28-5624	#29-5380	#30-5278
#31-5583	#32-5272	#33-5676	#34-5637	#35-5431	#36-5523	#37-5413	#38-5429	#39-5461	#40-5269
#41-5508	#42-5327	#43-5525	#44-5266	#45-5534	#46-5287	#47-5592	#48-5374	#49-5307	#50-5713
#51-5251	#52-5638	#53-5711	#54-5571	#55-5261	#56-5692	#57-5396	#58-5610	#59-5430	#60-5296
#61-5607	#62-5370	#63-5283	#64-5506	#65-5629	#66-5377	#67-5473	#68-5378	#69-5481	#70-5653
#71-5368	#72-5292	#73-5709	#74-5695	#75-5491	#76-5596	#77-5443	#78-5487	#79-5411	#80-5722
#81-5546	#82-5678	#83-5570	#84-5392	#85-5279	#86-5664	#87-5290	#88-5356	#89-5625	#90-5466
#91-5373	#92-5530	#93-5252	#94-5420	#95-5386	#96-5385	#97-5305	#98-5271	#99-5362	#100-5408

Type 6 #8 [Back to Summary]									
#01-5538	#02-5462	#03-5624	#04-5374	#05-5594	#06-5690	#07-5652	#08-5267	#09-5333	#10-5390
#11-5502	#12-5638	#13-5450	#14-5431	#15-5473	#16-5653	#17-5523	#18-5608	#19-5476	#20-5687
#21-5340	#22-5360	#23-5472	#24-5262	#25-5530	#26-5567	#27-5285	#28-5544	#29-5560	#30-5351
#31-5549	#32-5420	#33-5370	#34-5257	#35-5432	#36-5328	#37-5307	#38-5447	#39-5526	#40-5311
#41-5268	#42-5269	#43-5276	#44-5492	#45-5688	#46-5464	#47-5329	#48-5550	#49-5673	#50-5460
#51-5590	#52-5414	#53-5519	#54-5402	#55-5312	#56-5428	#57-5714	#58-5615	#59-5576	#60-5280
#61-5658	#62-5362	#63-5435	#64-5708	#65-5571	#66-5331	#67-5518	#68-5445	#69-5250	#70-5395
#71-5600	#72-5327	#73-5338	#74-5418	#75-5672	#76-5325	#77-5344	#78-5712	#79-5302	#80-5319
#81-5498	#82-5475	#83-5603	#84-5357	#85-5500	#86-5389	#87-5636	#88-5697	#89-5675	#90-5255
#91-5348	#92-5427	#93-5607	#94-5505	#95-5387	#96-5635	#97-5566	#98-5292	#99-5649	#100-5611

Type 6 #9 [Back to Summary]									
#01-5670	#02-5607	#03-5542	#04-5526	#05-5589	#06-5505	#07-5328	#08-5350	#09-5454	#10-5710
#11-5336	#12-5252	#13-5558	#14-5501	#15-5511	#16-5435	#17-5485	#18-5330	#19-5463	#20-5429
#21-5421	#22-5548	#23-5495	#24-5719	#25-5299	#26-5418	#27-5449	#28-5566	#29-5281	#30-5287
#31-5491	#32-5297	#33-5314	#34-5420	#35-5373	#36-5613	#37-5650	#38-5319	#39-5488	#40-5707
#41-5305	#42-5534	#43-5492	#44-5687	#45-5644	#46-5341	#47-5593	#48-5349	#49-5711	#50-5669
#51-5394	#52-5478	#53-5555	#54-5465	#55-5431	#56-5374	#57-5362	#58-5554	#59-5477	#60-5415
#61-5306	#62-5498	#63-5317	#64-5417	#65-5471	#66-5286	#67-5664	#68-5387	#69-5382	#70-5633
#71-5523	#72-5419	#73-5578	#74-5484	#75-5376	#76-5624	#77-5303	#78-5541	#79-5326	#80-5689
#81-5567	#82-5354	#83-5585	#84-5338	#85-5625	#86-5261	#87-5473	#88-5582	#89-5715	#90-5723
#91-5502	#92-5348	#93-5574	#94-5315	#95-5654	#96-5543	#97-5461	#98-5320	#99-5469	#100-5610

Type 6 #10 [Back to Summary]									
#01-5400	#02-5453	#03-5691	#04-5330	#05-5405	#06-5700	#07-5632	#08-5319	#09-5339	#10-5539
#11-5316	#12-5554	#13-5473	#14-5515	#15-5586	#16-5678	#17-5641	#18-5705	#19-5523	#20-5455
#21-5544	#22-5338	#23-5395	#24-5381	#25-5383	#26-5418	#27-5578	#28-5501	#29-5557	#30-5566
#31-5406	#32-5711	#33-5310	#34-5448	#35-5536	#36-5352	#37-5385	#38-5494	#39-5659	#40-5643
#41-5350	#42-5398	#43-5485	#44-5426	#45-5655	#46-5667	#47-5601	#48-5296	#49-5458	#50-5696
#51-5619	#52-5481	#53-5519	#54-5260	#55-5303	#56-5307	#57-5301	#58-5560	#59-5672	#60-5714
#61-5370	#62-5378	#63-5491	#64-5500	#65-5379	#66-5328	#67-5489	#68-5271	#69-5703	#70-5480
#71-5546	#72-5396	#73-5291	#74-5609	#75-5351	#76-5394	#77-5582	#78-5695	#79-5452	#80-5442
#81-5545	#82-5528	#83-5288	#84-5589	#85-5668	#86-5648	#87-5439	#88-5297	#89-5390	#90-5475
#91-5293	#92-5561	#93-5552	#94-5671	#95-5521	#96-5697	#97-5633	#98-5713	#99-5286	#100-5576

Type 6 #11 [Back to Summary]									
#01-5427	#02-5577	#03-5323	#04-5701	#05-5403	#06-5475	#07-5436	#08-5637	#09-5634	#10-5638
#11-5458	#12-5333	#13-5354	#14-5481	#15-5420	#16-5571	#17-5336	#18-5630	#19-5555	#20-5457
#21-5615	#22-5435	#23-5606	#24-5479	#25-5429	#26-5713	#27-5572	#28-5346	#29-5334	#30-5378
#31-5488	#32-5592	#33-5655	#34-5603	#35-5264	#36-5689	#37-5450	#38-5313	#39-5426	#40-5443
#41-5465	#42-5529	#43-5389	#44-5482	#45-5265	#46-5691	#47-5449	#48-5314	#49-5504	#50-5674
#51-5610	#52-5252	#53-5401	#54-5561	#55-5683	#56-5716	#57-5695	#58-5567	#59-5519	#60-5410
#61-5625	#62-5331	#63-5547	#64-5505	#65-5396	#66-5590	#67-5399	#68-5474	#69-5463	#70-5455
#71-5364	#72-5269	#73-5448	#74-5358	#75-5720	#76-5332	#77-5291	#78-5375	#79-5467	#80-5472
#81-5520	#82-5512	#83-5579	#84-5384	#85-5501	#86-5489	#87-5433	#88-5338	#89-5651	#90-5274
#91-5718	#92-5611	#93-5530	#94-5262	#95-5546	#96-5371	#97-5703	#98-5618	#99-5318	#100-5394

Type 6 #12 [Back to Summary]									
#01-5533	#02-5698	#03-5577	#04-5291	#05-5552	#06-5590	#07-5525	#08-5292	#09-5566	#10-5596
#11-5671	#12-5563	#13-5357	#14-5302	#15-5628	#16-5370	#17-5483	#18-5408	#19-5257	#20-5646
#21-5403	#22-5315	#23-5551	#24-5439	#25-5463	#26-5487	#27-5469	#28-5435	#29-5544	#30-5595
#31-5358	#32-5404	#33-5304	#34-5313	#35-5661	#36-5539	#37-5655	#38-5530	#39-5564	#40-5633
#41-5682	#42-5391	#43-5498	#44-5300	#45-5329	#46-5400	#47-5499	#48-5471	#49-5360	#50-5422
#51-5618	#52-5545	#53-5610	#54-5402	#55-5720	#56-5466	#57-5390	#58-5384	#59-5555	#60-5314
#61-5367	#62-5339	#63-5474	#64-5701	#65-5486	#66-5516	#67-5512	#68-5290	#69-5365	#70-5336
#71-5444	#72-5683	#73-5579	#74-5348	#75-5693	#76-5259	#77-5541	#78-5503	#79-5361	#80-5309
#81-5714	#82-5723	#83-5324	#84-5375	#85-5703	#86-5543	#87-5524	#88-5627	#89-5316	#90-5441
#91-5396	#92-5515	#93-5705	#94-5496	#95-5511	#96-5594	#97-5649	#98-5528	#99-5547	#100-5538

Type 6 #13 [Back to Summary]									
#01-5615	#02-5453	#03-5353	#04-5272	#05-5704	#06-5660	#07-5696	#08-5504	#09-5437	#10-5710
#11-5652	#12-5616	#13-5277	#14-5489	#15-5326	#16-5371	#17-5264	#18-5349	#19-5721	#20-5668
#21-5716	#22-5608	#23-5700	#24-5647	#25-5664	#26-5646	#27-5694	#28-5324	#29-5558	#30-5352
#31-5337	#32-5261	#33-5680	#34-5543	#35-5420	#36-5506	#37-5610	#38-5302	#39-5394	#40-5292
#41-5563	#42-5268	#43-5434	#44-5333	#45-5508	#46-5498	#47-5484	#48-5463	#49-5418	#50-5390
#51-5571	#52-5546	#53-5528	#54-5593	#55-5541	#56-5251	#57-5472	#58-5425	#59-5329	#60-5301
#61-5683	#62-5620	#63-5661	#64-5338	#65-5619	#66-5638	#67-5655	#68-5450	#69-5317	#70-5538
#71-5475	#72-5686	#73-5676	#74-5674	#75-5354	#76-5698	#77-5424	#78-5612	#79-5391	#80-5413
#81-5412	#82-5482	#83-5625	#84-5423	#85-5501	#86-5513	#87-5454	#88-5335	#89-5254	#90-5416
#91-5284	#92-5442	#93-5697	#94-5343	#95-5330	#96-5667	#97-5325	#98-5351	#99-5436	#100-5586

Type 6 #14 [Back to Summary]									
#01-5566	#02-5283	#03-5395	#04-5602	#05-5637	#06-5610	#07-5591	#08-5574	#09-5493	#10-5568
#11-5545	#12-5577	#13-5282	#14-5638	#15-5609	#16-5447	#17-5716	#18-5484	#19-5552	#20-5355
#21-5432	#22-5569	#23-5445	#24-5625	#25-5504	#26-5285	#27-5713	#28-5585	#29-5597	#30-5400
#31-5622	#32-5326	#33-5431	#34-5520	#35-5572	#36-5377	#37-5336	#38-5276	#39-5509	#40-5621
#41-5651	#42-5605	#43-5559	#44-5403	#45-5594	#46-5424	#47-5404	#48-5310	#49-5455	#50-5607
#51-5683	#52-5556	#53-5510	#54-5322	#55-5399	#56-5720	#57-5551	#58-5489	#59-5340	#60-5601
#61-5627	#62-5255	#63-5703	#64-5337	#65-5676	#66-5463	#67-5384	#68-5476	#69-5306	#70-5470
#71-5357	#72-5688	#73-5699	#74-5664	#75-5428	#76-5546	#77-5254	#78-5290	#79-5275	#80-5325
#81-5600	#82-5655	#83-5373	#84-5717	#85-5444	#86-5304	#87-5530	#88-5359	#89-5367	#90-5579
#91-5539	#92-5562	#93-5662	#94-5641	#95-5723	#96-5643	#97-5628	#98-5468	#99-5451	#100-5370

Type 6 #15 [Back to Summary]									
#01-5290	#02-5650	#03-5252	#04-5707	#05-5493	#06-5718	#07-5587	#08-5576	#09-5614	#10-5572
#11-5713	#12-5515	#13-5465	#14-5267	#15-5724	#16-5690	#17-5599	#18-5709	#19-5611	#20-5613
#21-5654	#22-5280	#23-5362	#24-5448	#25-5649	#26-5512	#27-5277	#28-5313	#29-5662	#30-5514
#31-5648	#32-5497	#33-5550	#34-5623	#35-5288	#36-5673	#37-5643	#38-5392	#39-5466	#40-5449
#41-5436	#42-5681	#43-5462	#44-5511	#45-5585	#46-5279	#47-5347	#48-5637	#49-5632	#50-5278
#51-5292	#52-5633	#53-5575	#54-5556	#55-5434	#56-5260	#57-5530	#58-5518	#59-5307	#60-5698
#61-5688	#62-5519	#63-5630	#64-5345	#65-5640	#66-5451	#67-5683	#68-5555	#69-5702	#70-5301
#71-5297	#72-5446	#73-5479	#74-5402	#75-5416	#76-5696	#77-5526	#78-5560	#79-5577	#80-5615
#81-5409	#82-5355	#83-5391	#84-5627	#85-5472	#86-5264	#87-5638	#88-5716	#89-5423	#90-5275
#91-5382	#92-5371	#93-5339	#94-5489	#95-5482	#96-5635	#97-5299	#98-5372	#99-5590	#100-5379

Type 6 #16 [Back to Summary]									
#01-5319	#02-5508	#03-5663	#04-5590	#05-5709	#06-5554	#07-5400	#08-5425	#09-5390	#10-5469
#11-5450	#12-5692	#13-5662	#14-5403	#15-5531	#16-5583	#17-5373	#18-5251	#19-5589	#20-5630
#21-5539	#22-5694	#23-5379	#24-5678	#25-5632	#26-5641	#27-5361	#28-5716	#29-5642	#30-5502
#31-5650	#32-5407	#33-5696	#34-5448	#35-5549	#36-5629	#37-5415	#38-5527	#39-5648	#40-5647
#41-5581	#42-5461	#43-5568	#44-5688	#45-5542	#46-5414	#47-5430	#48-5658	#49-5689	#50-5621
#51-5504	#52-5290	#53-5500	#54-5690	#55-5558	#56-5341	#57-5365	#58-5710	#59-5676	#60-5310
#61-5433	#62-5399	#63-5495	#64-5601	#65-5530	#66-5286	#67-5721	#68-5453	#69-5566	#70-5611
#71-5402	#72-5559	#73-5317	#74-5657	#75-5287	#76-5318	#77-5358	#78-5410	#79-5369	#80-5456
#81-5451	#82-5422	#83-5271	#84-5262	#85-5717	#86-5602	#87-5616	#88-5254	#89-5603	#90-5447
#91-5501	#92-5428	#93-5570	#94-5577	#95-5455	#96-5420	#97-5683	#98-5686	#99-5386	#100-5498

Type 6 #17 [Back to Summary]									
#01-5426	#02-5700	#03-5335	#04-5319	#05-5468	#06-5671	#07-5693	#08-5572	#09-5648	#10-5492
#11-5706	#12-5681	#13-5578	#14-5466	#15-5582	#16-5261	#17-5383	#18-5490	#19-5615	#20-5654
#21-5390	#22-5716	#23-5570	#24-5368	#25-5358	#26-5703	#27-5715	#28-5460	#29-5448	#30-5585
#31-5359	#32-5400	#33-5268	#34-5593	#35-5285	#36-5480	#37-5340	#38-5676	#39-5520	#40-5295
#41-5636	#42-5300	#43-5327	#44-5367	#45-5473	#46-5549	#47-5575	#48-5355	#49-5251	#50-5447
#51-5292	#52-5443	#53-5323	#54-5470	#55-5369	#56-5435	#57-5377	#58-5688	#59-5682	#60-5493
#61-5677	#62-5483	#63-5372	#64-5311	#65-5385	#66-5554	#67-5661	#68-5710	#69-5433	#70-5350
#71-5639	#72-5430	#73-5691	#74-5567	#75-5265	#76-5339	#77-5632	#78-5459	#79-5620	#80-5533
#81-5378	#82-5606	#83-5464	#84-5253	#85-5543	#86-5640	#87-5326	#88-5526	#89-5482	#90-5574
#91-5356	#92-5381	#93-5721	#94-5283	#95-5338	#96-5413	#97-5652	#98-5267	#99-5711	#100-5638

Type 6 #18 [Back to Summary]									
#01-5612	#02-5592	#03-5648	#04-5623	#05-5528	#06-5585	#07-5472	#08-5475	#09-5447	#10-5274
#11-5520	#12-5641	#13-5315	#14-5398	#15-5360	#16-5321	#17-5265	#18-5368	#19-5493	#20-5462
#21-5476	#22-5388	#23-5483	#24-5584	#25-5719	#26-5516	#27-5432	#28-5662	#29-5481	#30-5580
#31-5408	#32-5622	#33-5468	#34-5704	#35-5649	#36-5507	#37-5686	#38-5563	#39-5441	#40-5682
#41-5411	#42-5573	#43-5322	#44-5449	#45-5301	#46-5436	#47-5308	#48-5569	#49-5650	#50-5267
#51-5390	#52-5539	#53-5499	#54-5498	#55-5414	#56-5470	#57-5356	#58-5312	#59-5631	#60-5262
#61-5399	#62-5544	#63-5722	#64-5598	#65-5591	#66-5628	#67-5415	#68-5334	#69-5479	#70-5581
#71-5355	#72-5423	#73-5647	#74-5537	#75-5293	#76-5626	#77-5310	#78-5276	#79-5531	#80-5529
#81-5452	#82-5595	#83-5259	#84-5459	#85-5431	#86-5602	#87-5369	#88-5700	#89-5538	#90-5418
#91-5387	#92-5625	#93-5667	#94-5428	#95-5530	#96-5605	#97-5578	#98-5451	#99-5593	#100-5394

Type 6 #19 [Back to Summary]									
#01-5273	#02-5699	#03-5341	#04-5318	#05-5631	#06-5692	#07-5616	#08-5685	#09-5451	#10-5518
#11-5410	#12-5335	#13-5510	#14-5352	#15-5535	#16-5538	#17-5528	#18-5507	#19-5407	#20-5717
#21-5500	#22-5443	#23-5526	#24-5304	#25-5433	#26-5465	#27-5489	#28-5460	#29-5257	#30-5419
#31-5294	#32-5585	#33-5411	#34-5375	#35-5506	#36-5481	#37-5501	#38-5669	#39-5560	#40-5468
#41-5704	#42-5405	#43-5497	#44-5265	#45-5262	#46-5309	#47-5360	#48-5566	#49-5626	#50-5715
#51-5322	#52-5319	#53-5296	#54-5601	#55-5628	#56-5558	#57-5422	#58-5284	#59-5610	#60-5416
#61-5453	#62-5403	#63-5678	#64-5280	#65-5477	#66-5559	#67-5651	#68-5383	#69-5578	#70-5305
#71-5288	#72-5590	#73-5680	#74-5665	#75-5263	#76-5345	#77-5673	#78-5515	#79-5295	#80-5377
#81-5359	#82-5657	#83-5569	#84-5268	#85-5353	#86-5702	#87-5542	#88-5545	#89-5478	#90-5676
#91-5312	#92-5466	#93-5315	#94-5391	#95-5266	#96-5553	#97-5459	#98-5471	#99-5523	#100-5437

Type 6 #20 [Back to Summary]									
#01-5386	#02-5700	#03-5712	#04-5567	#05-5675	#06-5460	#07-5362	#08-5354	#09-5582	#10-5531
#11-5604	#12-5635	#13-5716	#14-5479	#15-5308	#16-5517	#17-5565	#18-5659	#19-5654	#20-5494
#21-5265	#22-5356	#23-5630	#24-5618	#25-5721	#26-5543	#27-5518	#28-5536	#29-5647	#30-5436
#31-5606	#32-5449	#33-5719	#34-5577	#35-5711	#36-5375	#37-5666	#38-5718	#39-5312	#40-5605
#41-5580	#42-5422	#43-5678	#44-5663	#45-5317	#46-5392	#47-5465	#48-5546	#49-5324	#50-5462
#51-5698	#52-5510	#53-5525	#54-5266	#55-5411	#56-5276	#57-5313	#58-5337	#59-5564	#60-5374
#61-5657	#62-5539	#63-5425	#64-5385	#65-5641	#66-5395	#67-5634	#68-5378	#69-5485	#70-5650
#71-5569	#72-5563	#73-5590	#74-5290	#75-5628	#76-5552	#77-5397	#78-5688	#79-5540	#80-5562
#81-5320	#82-5691	#83-5453	#84-5420	#85-5455	#86-5333	#87-5640	#88-5699	#89-5407	#90-5682
#91-5305	#92-5571	#93-5390	#94-5655	#95-5670	#96-5285	#97-5724	#98-5527	#99-5268	#100-5636

Type 6 #21 [Back to Summary]									
#01-5481	#02-5339	#03-5311	#04-5399	#05-5620	#06-5380	#07-5650	#08-5491	#09-5357	#10-5582
#11-5602	#12-5350	#13-5516	#14-5723	#15-5301	#16-5693	#17-5332	#18-5252	#19-5651	#20-5557
#21-5476	#22-5663	#23-5694	#24-5530	#25-5590	#26-5720	#27-5424	#28-5658	#29-5344	#30-5592
#31-5559	#32-5580	#33-5669	#34-5626	#35-5340	#36-5710	#37-5629	#38-5313	#39-5528	#40-5331
#41-5413	#42-5406	#43-5591	#44-5551	#45-5333	#46-5686	#47-5309	#48-5398	#49-5605	#50-5704
#51-5679	#52-5719	#53-5610	#54-5435	#55-5418	#56-5536	#57-5369	#58-5499	#59-5524	#60-5618
#61-5676	#62-5713	#63-5391	#64-5480	#65-5268	#66-5265	#67-5404	#68-5606	#69-5627	#70-5314
#71-5306	#72-5267	#73-5443	#74-5561	#75-5390	#76-5319	#77-5316	#78-5386	#79-5448	#80-5625
#81-5655	#82-5275	#83-5297	#84-5366	#85-5635	#86-5560	#87-5691	#88-5478	#89-5458	#90-5517
#91-5584	#92-5376	#93-5504	#94-5634	#95-5378	#96-5426	#97-5260	#98-5358	#99-5534	#100-5317

Type 6 #22 [Back to Summary]									
#01-5531	#02-5426	#03-5492	#04-5542	#05-5644	#06-5664	#07-5526	#08-5298	#09-5293	#10-5349
#11-5475	#12-5708	#13-5309	#14-5627	#15-5690	#16-5653	#17-5663	#18-5279	#19-5574	#20-5427
#21-5299	#22-5646	#23-5400	#24-5359	#25-5451	#26-5659	#27-5483	#28-5532	#29-5437	#30-5694
#31-5308	#32-5685	#33-5572	#34-5377	#35-5345	#36-5479	#37-5507	#38-5484	#39-5444	#40-5699
#41-5285	#42-5640	#43-5435	#44-5360	#45-5295	#46-5605	#47-5319	#48-5603	#49-5670	#50-5448
#51-5486	#52-5707	#53-5506	#54-5357	#55-5266	#56-5606	#57-5273	#58-5385	#59-5339	#60-5711
#61-5428	#62-5720	#63-5583	#64-5326	#65-5288	#66-5517	#67-5386	#68-5652	#69-5534	#70-5459
#71-5397	#72-5429	#73-5560	#74-5599	#75-5390	#76-5379	#77-5462	#78-5289	#79-5313	#80-5569
#81-5592	#82-5604	#83-5587	#84-5715	#85-5458	#86-5328	#87-5425	#88-5467	#89-5361	#90-5466
#91-5456	#92-5372	#93-5396	#94-5468	#95-5523	#96-5290	#97-5307	#98-5364	#99-5321	#100-5514

Type 6 #23 [Back to Summary]									
#01-5472	#02-5386	#03-5323	#04-5461	#05-5301	#06-5306	#07-5399	#08-5631	#09-5693	#10-5614
#11-5398	#12-5709	#13-5324	#14-5498	#15-5367	#16-5552	#17-5383	#18-5597	#19-5591	#20-5688
#21-5337	#22-5645	#23-5545	#24-5316	#25-5253	#26-5273	#27-5283	#28-5350	#29-5335	#30-5353
#31-5322	#32-5354	#33-5697	#34-5532	#35-5351	#36-5459	#37-5533	#38-5382	#39-5663	#40-5410
#41-5655	#42-5526	#43-5500	#44-5475	#45-5314	#46-5478	#47-5298	#48-5626	#49-5347	#50-5694
#51-5636	#52-5441	#53-5501	#54-5362	#55-5426	#56-5559	#57-5571	#58-5256	#59-5463	#60-5277
#61-5272	#62-5300	#63-5554	#64-5600	#65-5548	#66-5299	#67-5262	#68-5523	#69-5409	#70-5642
#71-5270	#72-5258	#73-5664	#74-5447	#75-5288	#76-5544	#77-5408	#78-5333	#79-5252	#80-5514
#81-5702	#82-5394	#83-5254	#84-5376	#85-5450	#86-5615	#87-5585	#88-5596	#89-5371	#90-5525
#91-5620	#92-5531	#93-5650	#94-5639	#95-5390	#96-5609	#97-5705	#98-5630	#99-5658	#100-5268

Type 6 #24 [Back to Summary]									
#01-5459	#02-5507	#03-5474	#04-5430	#05-5673	#06-5627	#07-5502	#08-5304	#09-5321	#10-5606
#11-5403	#12-5491	#13-5253	#14-5677	#15-5303	#16-5614	#17-5296	#18-5433	#19-5406	#20-5659
#21-5447	#22-5395	#23-5408	#24-5607	#25-5274	#26-5475	#27-5340	#28-5275	#29-5312	#30-5407
#31-5565	#32-5501	#33-5397	#34-5712	#35-5297	#36-5445	#37-5637	#38-5550	#39-5419	#40-5540
#41-5357	#42-5527	#43-5523	#44-5483	#45-5363	#46-5372	#47-5526	#48-5694	#49-5584	#50-5494
#51-5562	#52-5522	#53-5470	#54-5719	#55-5549	#56-5313	#57-5347	#58-5597	#59-5405	#60-5452
#61-5545	#62-5480	#63-5720	#64-5645	#65-5291	#66-5638	#67-5342	#68-5265	#69-5633	#70-5591
#71-5704	#72-5477	#73-5266	#74-5599	#75-5557	#76-5653	#77-5608	#78-5657	#79-5495	#80-5629
#81-5680	#82-5369	#83-5418	#84-5546	#85-5575	#86-5290	#87-5276	#88-5399	#89-5416	#90-5709
#91-5341	#92-5289	#93-5386	#94-5691	#95-5723	#96-5604	#97-5528	#98-5601	#99-5434	#100-5453

Type 6 #25 [Back to Summary]									
#01-5278	#02-5503	#03-5312	#04-5716	#05-5510	#06-5332	#07-5501	#08-5600	#09-5416	#10-5620
#11-5433	#12-5419	#13-5348	#14-5506	#15-5497	#16-5415	#17-5305	#18-5426	#19-5318	#20-5250
#21-5609	#22-5666	#23-5576	#24-5647	#25-5493	#26-5664	#27-5337	#28-5299	#29-5598	#30-5674
#31-5374	#32-5254	#33-5470	#34-5290	#35-5599	#36-5427	#37-5311	#38-5434	#39-5285	#40-5495
#41-5523	#42-5402	#43-5712	#44-5528	#45-5532	#46-5651	#47-5671	#48-5612	#49-5445	#50-5558
#51-5550	#52-5353	#53-5537	#54-5436	#55-5574	#56-5340	#57-5655	#58-5390	#59-5473	#60-5573
#61-5720	#62-5452	#63-5252	#64-5468	#65-5498	#66-5429	#67-5678	#68-5307	#69-5633	#70-5325
#71-5358	#72-5605	#73-5388	#74-5554	#75-5460	#76-5456	#77-5681	#78-5300	#79-5370	#80-5572
#81-5719	#82-5453	#83-5586	#84-5289	#85-5375	#86-5270	#87-5447	#88-5284	#89-5446	#90-5516
#91-5500	#92-5646	#93-5685	#94-5440	#95-5505	#96-5317	#97-5398	#98-5496	#99-5274	#100-5349

Type 6 #26 [Back to Summary]									
#01-5699	#02-5610	#03-5704	#04-5368	#05-5449	#06-5670	#07-5686	#08-5708	#09-5697	#10-5365
#11-5386	#12-5597	#13-5270	#14-5624	#15-5572	#16-5514	#17-5589	#18-5682	#19-5341	#20-5472
#21-5710	#22-5634	#23-5582	#24-5369	#25-5547	#26-5433	#27-5641	#28-5669	#29-5299	#30-5391
#31-5303	#32-5430	#33-5275	#34-5273	#35-5590	#36-5356	#37-5470	#38-5461	#39-5560	#40-5425
#41-5308	#42-5460	#43-5311	#44-5325	#45-5373	#46-5616	#47-5620	#48-5301	#49-5581	#50-5705
#51-5446	#52-5438	#53-5399	#54-5523	#55-5359	#56-5312	#57-5269	#58-5579	#59-5538	#60-5261
#61-5277	#62-5260	#63-5654	#64-5554	#65-5317	#66-5677	#67-5571	#68-5722	#69-5285	#70-5473
#71-5296	#72-5384	#73-5375	#74-5640	#75-5419	#76-5499	#77-5574	#78-5513	#79-5724	#80-5657
#81-5535	#82-5591	#83-5340	#84-5324	#85-5667	#86-5587	#87-5286	#88-5478	#89-5635	#90-5529
#91-5338	#92-5612	#93-5646	#94-5546	#95-5404	#96-5295	#97-5526	#98-5480	#99-5259	#100-5420

Type 6 #27 [Back to Summary]									
#01-5293	#02-5625	#03-5269	#04-5368	#05-5660	#06-5318	#07-5321	#08-5484	#09-5360	#10-5589
#11-5460	#12-5483	#13-5584	#14-5607	#15-5449	#16-5409	#17-5650	#18-5583	#19-5612	#20-5446
#21-5645	#22-5349	#23-5335	#24-5476	#25-5384	#26-5407	#27-5459	#28-5543	#29-5493	#30-5371
#31-5693	#32-5346	#33-5506	#34-5557	#35-5618	#36-5641	#37-5572	#38-5698	#39-5386	#40-5603
#41-5521	#42-5526	#43-5364	#44-5296	#45-5322	#46-5579	#47-5278	#48-5289	#49-5354	#50-5718
#51-5375	#52-5674	#53-5593	#54-5539	#55-5499	#56-5671	#57-5538	#58-5517	#59-5710	#60-5502
#61-5585	#62-5500	#63-5717	#64-5712	#65-5623	#66-5358	#67-5703	#68-5275	#69-5714	#70-5531
#71-5558	#72-5677	#73-5441	#74-5256	#75-5651	#76-5366	#77-5705	#78-5284	#79-5400	#80-5524
#81-5376	#82-5415	#83-5434	#84-5491	#85-5724	#86-5266	#87-5474	#88-5684	#89-5305	#90-5668
#91-5344	#92-5302	#93-5708	#94-5604	#95-5267	#96-5265	#97-5532	#98-5382	#99-5402	#100-5683

Type 6 #28 [Back to Summary]									
#01-5599	#02-5251	#03-5302	#04-5543	#05-5407	#06-5419	#07-5474	#08-5585	#09-5614	#10-5380
#11-5686	#12-5503	#13-5366	#14-5431	#15-5376	#16-5418	#17-5314	#18-5473	#19-5713	#20-5605
#21-5607	#22-5266	#23-5697	#24-5292	#25-5438	#26-5509	#27-5691	#28-5565	#29-5714	#30-5634
#31-5557	#32-5576	#33-5611	#34-5437	#35-5654	#36-5371	#37-5361	#38-5620	#39-5337	#40-5552
#41-5519	#42-5623	#43-5323	#44-5650	#45-5710	#46-5567	#47-5661	#48-5526	#49-5477	#50-5572
#51-5677	#52-5309	#53-5388	#54-5517	#55-5329	#56-5580	#57-5277	#58-5258	#59-5355	#60-5626
#61-5450	#62-5635	#63-5592	#64-5703	#65-5540	#66-5354	#67-5615	#68-5653	#69-5494	#70-5253
#71-5301	#72-5416	#73-5381	#74-5405	#75-5331	#76-5708	#77-5666	#78-5295	#79-5305	#80-5586
#81-5563	#82-5410	#83-5334	#84-5390	#85-5680	#86-5491	#87-5436	#88-5339	#89-5357	#90-5319
#91-5346	#92-5358	#93-5511	#94-5444	#95-5352	#96-5612	#97-5274	#98-5347	#99-5356	#100-5602

Type 6 #29 [Back to Summary]									
#01-5679	#02-5257	#03-5280	#04-5478	#05-5523	#06-5508	#07-5655	#08-5708	#09-5438	#10-5347
#11-5641	#12-5706	#13-5675	#14-5490	#15-5304	#16-5291	#17-5549	#18-5455	#19-5273	#20-5303
#21-5645	#22-5528	#23-5546	#24-5429	#25-5630	#26-5671	#27-5629	#28-5665	#29-5307	#30-5443
#31-5683	#32-5567	#33-5667	#34-5423	#35-5631	#36-5560	#37-5379	#38-5578	#39-5587	#40-5417
#41-5561	#42-5449	#43-5618	#44-5259	#45-5399	#46-5360	#47-5400	#48-5269	#49-5383	#50-5314
#51-5316	#52-5541	#53-5325	#54-5300	#55-5684	#56-5402	#57-5437	#58-5573	#59-5570	#60-5575
#61-5599	#62-5714	#63-5652	#64-5720	#65-5387	#66-5326	#67-5287	#68-5497	#69-5581	#70-5465
#71-5632	#72-5693	#73-5589	#74-5571	#75-5459	#76-5441	#77-5624	#78-5530	#79-5277	#80-5513
#81-5512	#82-5611	#83-5525	#84-5717	#85-5376	#86-5385	#87-5491	#88-5615	#89-5467	#90-5479
#91-5371	#92-5529	#93-5260	#94-5265	#95-5544	#96-5576	#97-5517	#98-5627	#99-5595	#100-5331

Type 6 #30 [Back to Summary]									
#01-5324	#02-5628	#03-5412	#04-5645	#05-5402	#06-5344	#07-5678	#08-5471	#09-5563	#10-5487
#11-5498	#12-5623	#13-5544	#14-5299	#15-5305	#16-5710	#17-5431	#18-5661	#19-5586	#20-5250
#21-5550	#22-5392	#23-5277	#24-5348	#25-5338	#26-5353	#27-5684	#28-5576	#29-5278	#30-5610
#31-5646	#32-5251	#33-5667	#34-5673	#35-5446	#36-5613	#37-5452	#38-5609	#39-5561	#40-5288
#41-5436	#42-5275	#43-5308	#44-5711	#45-5713	#46-5478	#47-5714	#48-5683	#49-5682	#50-5558
#51-5394	#52-5583	#53-5293	#54-5591	#55-5502	#56-5652	#57-5596	#58-5316	#59-5548	#60-5303
#61-5386	#62-5355	#63-5442	#64-5676	#65-5562	#66-5494	#67-5681	#68-5593	#69-5574	#70-5413
#71-5504	#72-5536	#73-5347	#74-5541	#75-5531	#76-5518	#77-5337	#78-5291	#79-5363	#80-5582
#81-5366	#82-5723	#83-5616	#84-5437	#85-5462	#86-5309	#87-5685	#88-5322	#89-5418	#90-5510
#91-5264	#92-5388	#93-5307	#94-5511	#95-5626	#96-5335	#97-5554	#98-5357	#99-5396	#100-5465

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