Report No.: LCSA05164163EF



FCC TEST REPORT

For

South Surveying & Mapping Technology Co., Ltd. **GNSS RECEIVER**

Test Model: INNO8

LCs Testing A Additional Model No.: Please Refer to Page 6

Prepared for Address	:	South Surveying & Mapping Technology Co., Ltd. No.39, Sicheng Road, Tianhe District, Guangzhou
Prepared by Address Tel Fax Web Mail		Shenzhen LCS Compliance Testing Laboratory Ltd. 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China (+86)755-82591330 (+86)755-82591332 www.LCS-cert.com webmaster@LCS-cert.com
Date of receipt of test sample Number of tested samples Sample No. Serial number Date of Test Date of Report	: : : : :	May 24, 2024 2 A240511060-1, A240511060-2 Prototype May 24, 2024 ~ July 23, 2024 July 24, 2024



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Report Reference No	: LCSA05164163EF	ISI LCS Test	
Date of Issue	:July 24, 2024		
Testing Laboratory Name	: Shenzhen LCS Compliance Test	ng Laboratory Ltd.	
Address	101, 201 Bldg A & 301 Bldg C, Juji Shajing Street, Baoan District, She	Industrial Park Yabianxueziwei, nzhen, 518000, China	
Testing Location/ Procedure	Full application of Harmonised star : Partial application of Harmonised s Other standard testing method □	idards ∎ tandards □	
Applicant's Name	: South Surveying & Mapping Tec	hnology Co., Ltd.	
Address	: No.39, Sicheng Road, Tianhe Distr	ict, Guangzhou	
Test Specification			
Standard	: FCC CFR 47 PART 15E (15.407)		
Test Report Form No	: LCSEMC-1.0		
TRF Originator	: Shenzhen LCS Compliance Testin	g Laboratory Ltd.	
	: Dated 2011-03		
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	FCC TEST REPORT			
Test Report No. :	LCSA05164163EF	<u>July 24, 2</u> Date of is	2024_ sue	
EUT	: GNSS RECEIVE	२		
Test Model	: INNO8			
Applicant	: : South Surveying	: South Surveying & Mapping Technology Co., Ltd.		
Address	: No.39, Sicheng F	oad, Tianhe District, Guangzho	u ^{lca}	
Telephone	: /	:/		
Fax	: /			
Manufacturer	: : South Surveying	y & Mapping Technology Co.,	Ltd.	
Address	: No.39, Sicheng F	oad, Tianhe District, Guangzho	bu	
Telephone	: : /			
Fax	: /			
Factory	L' esting Lan	IL WIND Lab	I THINK	
Address				
Telephone	: : /			
Fax	: : /			

Test Result:	Positive

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.













	TABLE OF CO	ONTENTS		
1. GENERAL INFORMATION			6	
1.1. DESCRIPTION OF DEVICE (EUT).			6	
1.2. SUPPORT EQUIPMENT LIST				
1.4. DESCRIPTION OF TEST FACILITY			9	
1.5. STATEMENT OF THE MEASUREME	NT UNCERTAINTY		9	
1.6. MEASUREMENT UNCERTAINTY 1.7. DESCRIPTION OF TEST MODES			9	
1.8. CHANNEL LIST AND FREQUENCY.				
1.9. CONDUTED OUTPUT POWER AND	EIRP			
2. TEST METHODOLOGY		1999 <u>199</u> 0		
3. SYSTEM TEST CONFIGURATION	161 LC5 10°	<u> </u>		
3.1. EUT EXERCISE SOFTWARE		····		
3.2. SPECIAL ACCESSORIES				
3.3. BLOCK DIAGRAM/SCHEMATICS 3.4. EQUIPMENT MODIFICATIONS				
3.5. TEST SETUP				
3.6. PROCEDURE		错误	!未定义书签。	
4. SUMMARY OF TEST RESULTS				
5. DESCRIPTION OF DYNAMIC FRE	QUENCY SELECTION	TEST		
5.1. REQUIREMENTS 5.2. LIMIT		错误 	! 未定义书签。 ! 未定义书签。	
6. DFS DETECTION THRESHOLD V	ALUES	2 Deseting		
7. DFS TEST SIGNALS				
8. TEST RESULT				
9. LIST OF MEASURING EQUIPMEN	TS			
10. TEST SETUP PHOTOGRAPHS O	F EUT		61	
11. EXTERIOR PHOTOGRAPHS OF	THE EUT		61	
12. INTERIOR PHOTOGRAPHS OF T	HE EUT		61	



GENERAL INFORMATION 1

1.1. Description of Dev	vice (EUT)	
EUT	: GNSS RECEIVER	
Test Model	: INNO8	
Additional Model No.	 ALPS1, ALPS2, ALPS3, ALPS4, ALPS5, ALPS6, INNO9, INNO6, INNO5, INNO3, INNO8 Pro, K60 Pro, K60, K2, KR1, KR2, KR3, T7, T7 Pro, T6, T6 Pro, T5, T5 Pro, RENO2S, RENO1 Pro, ROVA3, RAMA1, RAMA2, RAMA3, RAMA4, K50, K9S, T14, T15, RENO2, RENO3, ROVA2, Insight V3, V1 	
Model Declaration Ratings	 PCB board, structure and internal of these model(s) are the same, So no additional models were tested For AC Adapter Input: 100-240V~, 50/60Hz, 1.4A MAX Adapter Output: PD3.0: 5V-3A/9V-3A/15V-3A/20V-2.25A PPS: 3.3-11.0V-3A QC: 5V-3A/9V-3A/12V-3A DC 7.4V by Rechargeable Li-ion Battery, 10000mAh 	
Hardware Version	: H0X0DY0N0210008063135G048C12	
Software Version	: PurpleCowY_RTK-V20231019	
Bluetooth		
Frequency Range	: 2402MHz~2480MHz	
Channel Number	: 79 channels for Bluetooth V4.2 (DSS) 40 channels for Bluetooth V4.2 (DTS)	
Channel Spacing	: 1MHz for Bluetooth V4.2 (DSS) 2MHz for Bluetooth V4.2 (DTS)	
Modulation Type	: GFSK, π/4-DQPSK, 8-DPSK for Bluetooth V4.2 (DSS) GFSK for Bluetooth V4.2 (DTS)	
Bluetooth Version	: V4.2	
Antenna Description	: Internal Antenna, 2.70dBi(Max.)	
WIFI(2.4G Band)	:	
Frequency Range	: 2412MHz~2462MHz	
Channel Spacing	: 5MHz	
Channel Number	: 11 Channels for 20MHz bandwidth (2412~2462MHz) 7 Channels for 40MHz bandwidth (2422~2452MHz)	
Modulation Type	: IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)	
Antenna Description	: Internal Antenna, 2.70dBi(Max.)	
WIFI(5.2G Band)		
Frequency Range	: 5180MHz~5240MHz	



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Report No.: LCSA05164163EF





Add: 101, 201 Bldg Å & 301 Bldg Č, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Report No.: LCSA05164163EF

Power Class	0.63dBi (max.) For E-UTRA I 1.78dBi (max.) For E-UTRA I 2.55dBi (max.) For E-UTRA I : Class 3	3and 5 3and 7 3and 41		
NFC	:			
Frequency Range	: 13.56MHz			
Modulation Type	: ASK			
Antenna Description	: Internal Antenna, 0dBi(Max.)			
PMR	:			
Operating Frequency	: 410MHz~470MHz		の調整的	
Channel Separation	: 12.5KHz			
Modulation Type	: GMSK			
rated power	: 3W			
Antenna Description	: External Antenna, 2.14dBi(M	ax.)		
Extreme temp. Tolerance	: -30°C to +50°C			
Extreme vol. Limits	: 6.7VDC to 8.4VDC (nominal:	7.4VDC)		









1.2. Support equipment List

Manufacturer	Description	Model	Certificate
200	SWITCHING	and the second se	
Diwen Enterprise Co., Ltd	POWER	S045SU2000225	FCC
	SUPPLY		
TP-LINK TECHNOLOGIES	Poutor	Arobar AV50	
CO., LTD.	Roulei	Archer AA50	FCCID. TETAX30

Note: Auxiliary equipment(Router) is provided by the laboratory.

1.3. External I/O Cable

1.3. External I/O Cable	拉哥拉那脸测脸的	以后在立时和检测服度的
I/O Port Description	Quantity	Cable
UHF Antenna Port	1	N/A
Type-C USB Port	1	USB Cable: 0.8m, unshielded
SIM Card Slot	1	N/A

1.4. Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Test Firm Registration Number: 254912.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

1.5. Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods - Part 4: Uncertainty in EMC Measurements" and is documented in the LCS guality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

1.6. Measurement Uncertainty

No.	Item	Uncertainty
1	DFS Threshold (radiated)	±1.50dB
2	DFS Threshold (conducted)	±1.45dB
3	Temperature	±0.5°C
4	Humidity	±2%

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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LCS Testing Lab



1.7. Description of Test Modes

The EUT has been tested under operating condition.

Worst-Case data rates were utilized from preliminary testing of the Chipset, worst-case data rates used during the testing are as follows:

IEEE 802.11a Mode: 6 Mbps, OFDM.

IEEE 802.11n HT20 Mode: MCS0, OFDM.

IEEE 802.11n HT40 Mode: MCS0, OFDM.

1.8. Channel List and Frequency

U-NI-2A

 Channel List ar 	nd Frequency			
NI-2A				
Frequency Band	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
and the second se	52	5260	60	5300
5260-5220MU-	54	5270	62	5310
5260~5320IVIHZ	56	5280	64	5320
	58	5290	/	/
For IEEE 802.11a/	n HT20, Channel	52, 60 and 64 were te	ested.	

For IEEE 802.11n HT40, Channel 54 and 62 were tested.

U-NI-2C

Frequency Band	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
th an	100	5500	118	5590
HANDALab	102	5510	120	5600
CS Testins	104	5520	122	5610
	106	5530	124	5620
	108	5540	126	5630
5500~5700MHZ	110	5550	128	5640
	112	5560	132	5660
	114	5570	134	5670
	116	5580	136	5680
			140	5700

For IEEE 802.11a/n HT20, Channel 100, 116 and 140 were tested. For IEEE 802.11n HT40, Channel 102,110 and 134 were tested.



1.9. Conduted (. Conduted Output Power and EIRP					
Mode	Frequency Band (MHz)	Maximum Conducted Output Power (dBm)	Antenna Gain (dBi)	Maximum EIRP (dBm)	Maximum EIRP (mW)	
	5260 – 5320	12.49	6.95	19.44	87.90	
IEEE 002.11a	5500 - 5700	12.97	6.95	19.92	98.17	
IEEE 802.11n	5260 – 5320	11.50	6.95	18.45	69.98	
HT20	5500 – 5700	11.97	6.95	18.92	77.98	
IEEE 802.11n	5270 – 5310	10.85	6.95	17.8	60.26	
HT40	5510 – 5670	11.31	6.95	18.26	66.99	

Remark:

1. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW;





2. TEST METHODOLOGY

This report has been prepared to demonstrate compliance with the requirements for Dynamic Frequency Selection (DFS) as stated in FCC CFR 47 PART 15E(15.407). Testing was performed in accordance with the measurement procedure described in FCC KDB 905462 D02 v02 and KDB 905462 D03.

3. SYSTEM TEST CONFIGURATION

3.1. EUT Exercise Software

The system was configured for testing in a continuous transmits condition and change test channels by software provided by application.

3.2. Special Accessories

N/A

3.3. Block Diagram/Schematics

Please refer to the related document

3.4. Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.5. Test Setup



Figure 7-1. Test Setup





4. SUMMARY OF TEST RESULTS





Requirement	Results		
Non-Occupancy Period	Pass		
DFS Detection Threshold	Pass		
Channel Availability Check Time	Pass		
Channel Closing Transmission Time	Pass		
Channel Move Time	Pass		
U-NII Detection Bandwidth	Pass		
Statistical Performance Check	Pass Pass		

Note: The EUT operating at DFS band as a master device with ad hoc and radar detection function.





5. DESCRIPTION OF DYNAMIC FREQUENCY SELECTION TEST

5.1. Requirements

Per FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 the following are the requirements for 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 ~ 5825 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

Paquirament		Operational Mode	
Requirement	Master	Client Without Radar Detection	Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 1: Applicability of DFS Requirements Prior to Use of a Channel



Scan code to check authenticity

Paquirament	Operational Mode			
Kequitement	Master Device or Client with Radar Detection	Client Without Radar Detection		
DFS Detection Threshold	Yes	Not required		
Channel Closing Transmission Time	Yes	Yes		
Channel Move Time	Yes	Yes		
U-NII Detection Bandwidth	Yes	Not required		

Table 2: Applicability of DFS requirements during normal operation

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 within the radar detection bandwid 802.11 devices it is suggested to se channel center frequency.	performance check (Section 7.8.4) sl th and frequencies near the edge of the elect frequencies in each of the bonde	hould include several frequencies he radar detection bandwidth. For d 20 MHz channels and the

5.2. RESPONSE REQUIREMENTS

Table	4: 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



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6. DFS DETECTION THRESHOLD VALUES

The DFS detection thresholds are defined for Master devices and Client Devices with In-service monitoring. These detection thresholds are listed in the following table.

Maximum Transmit Power	Value (See Notes 1 and 2)
EIRP≥ 200 milliwatt	-64 dBm
EIRP< 200 milliwatt and Power pectral < 10 dBm/MHz	-62 dBm
EIRP<200 milliwatt that do not meet the power spectral density requirement	-64 dBm
- 18	

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. For MIMO devices refer to KDB Publication 662911 D01.







7. DFS TEST SIGNALS

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.

Radar Type	Pulse Width (µsec)	Pulse Width (µsec) Number of Pulses (µsec) 1 1428 18		Minimum Percentage of Successful Detection	Minimum Number of Trials See Note 1	
0	1			See Note 1		
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A	$\operatorname{Roundup}\left\{ \begin{pmatrix} \frac{1}{360} \end{pmatrix}, \\ \begin{pmatrix} \frac{19 \cdot 10^6}{\mathrm{PRI}_{\mu \mathrm{sec}}} \end{pmatrix} \right\}$	60%	30	
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	
ggregate	(Radar Types 1-	4)	8 (A)	80%	120	

Table 5 – Short Pulse Radar Test Waveforms

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.



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time, and channel closing time tests.



Repetition Frequency Number	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds
1	1930.5	518
2	1858.7	538
3	1792.1	558
4	1730.1	578
5	1672.2	598
6	1618.1	618
7	1567.4	638
8	1519.8	658
9	1474.9	678
10	1432.7	698
11	1392.8	718
12	1355	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

Table 6 – Long Pulse Radar Test Waveform

Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of 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 Type waveforms. If more than 30 waveforms are used for the Long Pulse Radar Type waveforms, 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.



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5) Each pulse has a linear frequency modulated chirp between 5 and 20 MHz, with the chirp width being randomly chosen. Each pulse within a transmission period will have the same chirp width. 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 random time interval between the first and second pulses is chosen independently of the random time interval 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 randomly.

A representative example of a Long Pulse Radar Type waveform:

1) The total test waveform length is 12 seconds.

- 2) Eight (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.



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).

Radar Type	Pulse Width (µsec)	PRI (µsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	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.



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Manufacturer's Statement Regarding Uniform Channel Spreading

The end product implements an automatic channel selection feature at startup such that operation commences on channels distributed across the entire set of allowed 5GHz channels. This feature will ensure uniform spreading is achieved while avoiding non-allowed channels due to prior radar events.

TEST AND MEASUREMENT SYSTEM

System Overview

The measurement system is based on a conducted test method.

The short pulse and long pulse signal generating system utilizes the NTIA software and the same manufacturer / model Vector Signal Generator as the NTIA. The hopping signal generating system utilizes the simulated hopping method.

The software selects waveform parameters from within the bounds of the signal type on a random basis using uniform distribution. The short pulse types 2, 3 and 4, and the long pulse type 5 parameters are randomized at run-time. The hopping type 6 pulse parameters are fixed while the hopping sequence is based on the August 2005 NTIA Hopping Frequency List, with the initial starting point randomized at run-time.

The signal monitoring equipment consists of a spectrum analyzer with the capacity to display 8192 bins on the horizontal axis. A time-domain resolution of 2 msec / bin is achievable with a 16 second sweep time, meeting the 10 second short pulse reporting criteria. The aggregate ON time is calculated by multiplying the number of bins above a threshold during a particular observation period by the dwell time per bin, with the analyzer set to peak detection and max hold. A time-domain resolution of 3 msec / bin is achievable with a 24 second sweep time, meeting the 22 second long pulse reporting criteria and allowing a minimum of 10 seconds after the end of the long pulse waveform.

Frequency Hopping Signal Generation

The hopping burst generator is a High Speed Digital I/O card plugged into the control computer. This card utilizes an independent hardware clock reference therefore the output pulse timing is unaffected by host computer operating system latency times.

The software selects the hopping sequence as a 100-length segment of the August 2005 NTIA hopping frequency list. This list contains 274 unique pseudorandom sequences. Each such sequence contains 475 frequencies ordered on a random without replacement basis. Each successive trial uses a contiguous 100-length segment from within each successive 475-length sequence in the list. The initial starting point within the list is randomized at run-time such that the first 100-length segment is entirely contained within the first 475-length sequence. The starting point of each successive trial is incremented by 475.

Each frequency in the 100-length segment is compared to the boundaries of the EUT Detection Bandwidth and the software creates a hopping burst pattern in accordance with Section 7.4.1.3 Method #2 Simulated Frequency Hopping Radar Waveform Generating Subsystem of FCC 06-96 APPENDIX. The frequency of the signal generator is incremented in 1 MHz steps from FL to FH for each successive trial. This incremental sequence is repeated as required to generate a minimum of 30 total trials and to maintain a uniform frequency distribution over the entire Detection Bandwidth.

Conducted Method System Block Diagram





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Measurement System Frequency Reference

Lock the signal generator and the spectrum analyzer to the same reference source as follows: Connect the 10 MHz OUT (SWITCHED) on the spectrum analyzer to the 10 MHz IN on the signal generator and set the spectrum analyzer 10 MHz Out to On.

Interference Detection Threshold Adjustment

Download the applicable radar waveforms to the signal generator. Select the radar waveform, trigger a burst manually and measure the amplitude on the spectrum analyzer. Readjust the amplitude of the signal generator as required so that the peak level of the waveform is at a displayed level equal to the required or desired

interference detection threshold. Separate signal generator amplitude settings are determined as required for each radar type.

Adjustment Of Displayed Traffic Level

Establish a link between the Master and Slave, adjusting the Link Step Attenuator as needed to provide a suitable received level at the Master and Slave devices. Stream the video test file to generate WLAN traffic. Confirm that the WLAN traffic level, as displayed on the spectrum analyzer, is at lower amplitude than the radar detection threshold. Confirm that the displayed traffic is from the Master Device. For Master Device testing confirm that the displayed traffic does not include Slave Device traffic. For Slave Device testing confirm that the displayed traffic does not include Testing.

If a different setting of the Master Step Attenuator is required to meet the above conditions, perform a new

System Calibration for the new Master Step Attenuator setting.

Test Setup





8. DFS CONFORMANCE TEST PROCEDURES

8.1 Channel Loading

Test Mode	Test Frequency	Packet Ratio	Requirement Ratio	Test resuelt
802.11a	5500	18.74%	≥17%	PASS
802.11n HT40	5510	18.23%	≥17%	PASS
Note: System testing	g was performed with	the designated iperf to	est file. This file is use	d by IP and
Frame based system	ns for loading the test	channel during the In	-service compliance to	esting of the
U-NII device. Packe	t ratio = Time On / (Tir	me On + Off Time).		





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8.2 Radar Waveform Calibration Measurement

8.2.1 Calibration Procedure

The Interference Radar Detection Threshold Level is (-64dBm) + (0) [dBi] = -64 dBm that had been taken into account the output power range and antenna gain. The above equipment setup was used to calibrate the conducted Radar Waveform. A vector signal generator was utilized to establish the test signal level for each radar type. During this process there were replace 500hm terminal form Master and Client device and no transmissions by either the Master or Client Device. The spectrum analyzer was switched to the zero span (Time Domain) at the frequency of the Radar Waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to at least 3MHz. The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was (-64dBm) + (0) [dBi] = -64 dBm. Capture the spectrum analyzer plots on short pulse radar types, long pulse radar type and hopping radar waveform.

8.2.2 Calibration Results

Mode 802.11n HT40 mode - 5510MHz

































8.3 NII Detection Bandwidth Measurement

8.3.1 Test Limit

Minimum 100% of the NII 99% transmission power bandwidth. During the U-NII Detection Bandwidth detection test, each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

8.3.2 Test Procedure

1. Adjust the equipment to produce a single Burstof any one of the Short Pulse Radar Types 0 –4 in Table 5 at the center frequency of the UUT Operating Channelat the specified DFS Detection Threshold level found in Table 3.

2. The generating equipment is configured as shown in the Conducted Test Setup above Figure 7-1

3. The EUT is set up as a stand-alone 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.

4. Generate a single radar Burst, and note the response of the EUT. Repeat for a minimum of 10 trials. The EUT must detect the Radar Waveform using the specified U-NII Detection Bandwidth criterion shown in Table 3-5. In cases where the channel bandwidth may exceed past the DFS band edge on specific channels (i.e., 802.11ac or wideband frame based systems) select a channel that has the entire emission bandwidth within the DFS band. If this is not possible, test the detection BW to the DFS band edge.

5. Starting at the center frequency of the UUT operating Channel, increase the radar frequency in 5 MHz steps, repeating the above test sequence, until the detection rate falls below the U-NII Detection Bandwidth criterion specified in Table 3-3. Repeat this measurement in 1MHz steps at frequencies 5 MHz below where the detection rate begins to fall. Record the highest frequency (denote as FH) at which detection is greater than or equal to the U-NII Detection Bandwidth criterion. Recording the detection rate at frequencies above FH is not required to demonstrate compliance.

6. Starting at the center frequency of the EUT operating Channel, decrease the radar frequency in 1 MHz steps, repeating the above item 4 test sequence, until the detection rate falls below the U-NII Detection Bandwidth criterion. Record the lowest frequency (denote as FL) at which detection is greater than or equal to the U-NII Detection Bandwidth criterion. Recording the detection rate at frequencies below FL is not required to demonstrate compliance.

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

8. The U-NII Detection Bandwidth must be at least 100% of the EUT transmitter 99% power, otherwise, the EUT does not comply with DFS requirements



8.3.3 Test Result

.3 Test Result	后 在新检测器份											
Detection Bandwidth(802	.11a	mo	de-8	5500	МН	z)		1				
				DFS	6 De	tect	ion	Tria	ls(1=	=Dete	cton, 0=no Detectio	on)
Radar Frequncy(MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate(%)	Limit(%)
5489	0	0	0	0	0	0	0	0	0	0	0	/
5490FL	1	1	1	1	1	1	1	1	1	1	100	90
5491	1	1	1	1	1	1	1	1	1	1	100	90
5492	1	1	1	1	1	1	1	1	1	1	100	90
5493	1	1	1	1	1	1	1	1	^{io} 1	1	100 🚽	90
5495	1	1	1	1	1	୍ 1 ⁶	1	1	1	1	100	90
5500	1	1	1	1	1	1	1	1	1	1	100	90
5505	1	1	1	1	1	1	1	1	1	1	100	90
5506	1	1	1	1	1	1	1	1	1	1	100	90
5507	1	1	1	1	1	1	1	1	1	1	100	90
5508	1	1	1	1	1	1	1	1	1	1	100	90
5509	1	1	1	1	1	1	1	1	1	1	100	90
5510FH	1	1	1	1	1	1	1	1	1	1	100	90
5511	0	0	0	0	0	0	0	0	0	0	0	1

Note 1: The 99% channel bandwidth is 16.79MHz. (See the 99% BW section of the RF report for further measurement details).

Note 2: Detection Bandwidth = FH - FL = 5510MHz - 5490MHz = 20MHz

Note 3: NII Detection Bandwidth Min. Limit (MHz): 16.79MHz x 100% = 16.79MHz.

Detection Bandwidth(80	2.11	n HT	-40 r	node	-551	0MF	łz)					
			D	FS D)etec	tion	Trial	s(1=	Dete	cton, ()=no Detectio	n)
Radar Frequncy(MHz)	1	2	3	4	5	6	7	8	9	10	Detection	Limit(%)
5/180	0	0	0	0	0	0	0	0	0	0	1 (ate(70)	
5409	0	0		0	0	0	0	4	0	0	100	/
5490FL		Ĩ	Ĩ		S V	581 M	Ĩ	- T			100 05	90
5491	1	1	1	1	1	1	1	1	1	1	100	90
5492	1	1	1	1	1	1	1	1	1	1	100	90
5493	1	1	1	1	1	1	1	1	1	1	100	90
5495	1	1	1	1	1	1	1	1	1	1	100	90
5500	1	1	1	1	1	1	1	1	1	1	100	90
5505	1	1	1	1	1	1	1	1	1	1	100	90
5510	1	1	1	1	1	1	1	1	1	1	100	90
5515	1	1	1	(1)	1	1	1	1	1	-miles	<u>)</u> 100	90
5520	1	11A	1	ns1 ^{al}	1	1	1	1	1	anto V	^{های} 100	90
5525	1	1 ⁰⁶	1	1	1	1	1	1	19	1	100	90



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5526	1	1	1	1	1	1	1	1	1	1	100	90
5527	1	19	1	1	1	1	1	1	1.1	1	o ^ر 100	90
5528	1	109	11	1	1	1	1	1	151	° 1	100	90
5529	1	1	1	1	1	1	1	1	1	1	100	90
5530FH	1	1	1	1	1	1	1	1	1	1	100	90
5531	0	0	0	0	0	0	0	0	0	0	0	/

Note 1: The 99% channel bandwidth is 36.10MHz. (See the 99% BW section of the RF report for further measurement details).

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Note 2: Detection Bandwidth = FH - FL = 5530MHz - 5490MHz = 40MHz.

Note 3: NII Detection Bandwidth Min. Limit (MHz): 36.10MHz x 100% = 36.10MHz. EI 立语检测路份 LCS Testing Lab

















8.4 Channel Availability Check Time Measurement

8.4.1 Limit and Test Procedure

Initial Channel Availability Check Time

The Initial Channel Availability Check Time tests that the UUT does not emit beacon, 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 and only needs to be performed one time.

a) The U-NII devices will be powered on and be instructed to operate on the appropriate U-NII Channel that must incorporate DFS functions. At the same time the UUT is powered on, the spectrum analyzer will be set to zero span mode with a 3 MHz RBW and 3 MHz VBW on the Channel occupied by the radar (Chr) with a 2.5 minute sweep time. The spectrum analyzer's sweep will be started at the same time power is applied to the U-NII device.

b) The UUT should not transmit any beacon or data transmissions until at least 1 minute after the completion of the power-on cycle.

c) Confirm that the UUT initiates transmission on the channel This measurement can be used to determine the length of the power-on cycle if it is not supplied by the manufacturer. If the spectrum analyzer sweep is started at the same time the UUT is powered on and the UUT does not begin transmissions until it has completed the cycle, the power-on time can be determined by comparing the two times.

Radar Burst at the Beginning of the Channel Availability Check Time

The steps below define the procedure to verify successful radar detection on the test 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 + 1 dB occurs at the beginning of the Channel Availability Check Time. a) The Radar Waveform generator and UUT are connected using the applicable test setup described in the sections

on configuration for Conducted Tests (Figure 7-1) and the power of the UUT is switched off. b) The UUT is powered on at T₀. T₁ denotes the instant when the UUT has completed its power-up sequence

 (T_{power_up}) . The Channel Availability Check Time commences on Chr at instant T₁ and will end no sooner than T₁ + $T_{ch_avail_check}$.

c) A single Burst of one of the Short Pulse Radar Types 0-4 will commence within a 6 second window starting at T₁. An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.

d) Visual indication or measured results on the UUT of successful detection of the radar Burst will be recorded and reported. Observation of Ch_r for UUT emissions will continue for 2.5 minutes after the radar Burst has been generated.

e) Verify that during the 2.5 minute measurement window no UUT transmissions occurred on Ch_r. The Channel Availability Check results will be recorded.

Radar Burst at the End of the Channel Availability Check Time

The steps below define the procedure to verify successful radar detection on the test 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 occurs at the end of the Channel Availability Check Time.



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a) The Radar Waveform generator and UUT are connected using the applicable test setup described in the sections for Conducted Tests (Figure 7-1) and the power of the UUT is switched off.

b) The UUT is powered on at T_0 . T_1 denotes the instant when the UUT has completed its power-up sequence (T_{power_up}) . The Channel Availability Check Time commences on Ch_r at instant T_1 and will end no sooner than $T_1 + T_{ch_avail_check}$.

c) A single Burst of one of the Short Pulse Radar Types 0-4 will commence within a 6 second window starting at T₁ + 54 seconds. An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.

d) Visual indication or measured results on the UUT of successful detection of the radar Burst will be recorded and reported. Observation of Ch_r for UUT emissions will continue for 2.5 minutes after the radar Burst has been generated.

e) Verify that during the 2.5 minute measurement window no UUT transmissions occurred on Ch_r. The Channel Availability Check results will be recorded.



Page 33 of 61













8.5 In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period Measurement

8.5.1 Test Limit

The EUT has In-Service Monitoring function to continuously monitor the radar signals. If the radar is detected, must leave the channel (Shutdown). The Channel Move Time to cease all transmissions on the current channel upon detection of a Radar Waveform above the DFS Detection Threshold within 10 sec. The total duration of Channel Closing Transmission Time is 260ms, consisting of data signals and the aggregate of control signals, by a U-NII device during the Channel Move Time. The Non-Occupancy Period time is 30 minutes during which a Channel will not be utilized after a Radar Waveform is detected on that Channel.

8.5.2 Test Procedure

1. The test should be performed with Radar Type 0. The measurement timing begins at the end of theRadar Type 0.

2. When the radar burst with a level equal to the DFS Detection Threshold + 1dB is generated on the Operating Channel of the U-NII device. A U-NII device operating as a Master Device will associate with the Client Device at Channel. Stream the MPEG test file from the Master Device to the Client Device on the selected Channel for the entire period of the test. At time T_0 the Radar Waveform generator sends a Burst of pulses for each of the radar types at Detection Threshold + 1dB.

3. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the EUT during the observation time (Channel Move Time).

4. Measurement of the aggregate duration of the Channel Closing Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (1.5ms) = S (12 sec) / B (8000); where Dwell is the dwell time per spectrum analyzer sampling bin, S is the sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: C = N X Dwell; where C is the Closing Time, N is the number of spectrum analyzer sampling bins showing a U-NII transmission and Dwell is the dwell time per bin.

5. Measure the EUT for more than 30 minutes following the channel close/move time to verify that the EUT does not resume any transmissions on this Channel.



Report No.: LCSA05164163EF

8.5.3 Test Result

sult			
Mode 802.11n HT40-5510MHz			
Parameter	Test Result	Limit	
Channel Move Time (s)	1.3265	<10	
Channel Closing Transmission Time(ms) 0.026	<260ms	
CloseTransmissionTime after 200ms	0.0224	<60ms	
Non-Occupancy Period (min)	≥30min	≥30min]





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8.6 Statistical Performance Check

8.6.1 Test Limit

The minimum percentage of successful detection requirements found in below table when a radar burst with a level equal to the DFS Detection Threshold + 1dB is generated on the Operating Channel of the U-NII device (In- Service Monitoring).

Radar Type	Minimum Number of Trails	Detection Probability
1	30(15 of test A and 15 of test B)	Pd ≥ 60%
2	30	Pd ≥ 60%
3	30	Pd ≥ 60%
1114 Aling Lab	30	Pd ≥ 60%
Aggregate (Radar Types 1-4)	120	Pd ≥ 80%
5	30	Pd ≥ 80%
6	30	Pd ≥ 70%

Note: The percentage of successful detection is calculated by:

(Total Waveform Detections / Total Waveform Trails) * 100 = Probability of Detection Radar Waveform In addition an aggregate minimum percentage of successful detection across all Short Pulse Radar Types 1-4 is required and is calculated as follows: (Pd1 + Pd2 + Pd3 + Pd4) / 4.

8.6.2 Test Procedure

1. Stream the channel loading test file from the Master Device to the Client Device on the test Channel for the entire period of the test.

2. At time T_0 the Radar Waveform generator sends the individual waveform for each of the Radar Types 1-6, at levels equal to the DFS Detection Threshold + 1dB, on the Operating Channel. 3. Observe the transmissions of the EUT at the end of the Burst on the Operating Channel for duration greater than 10 seconds for Short Pulse Radar Types 0 to ensure detection occurs.

4. Observe the transmissions of the EUT at the end of the Burst on the Operating Channel for duration greater than 22 seconds for Long Pulse Radar Type 5 to ensure detection occurs.

5. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs.

6. The Minimum number of trails, minimum percentage of successful detection and the average minimum percentage of successful detection are found in below table



8.6.3 Test Result

Note: All the modes have been tested and recorded worst mode in the report. Mode 802.11n HT40 mode - 5510MHz

	Radar	Туре 1	Radar	Гуре 2	Radar	Туре 3	Radar Type 4		
Trial #	Radar Frequency (MHz)	1=Detection 0=no Detectiont	Radar Frequency (MHz)	1=Detection 0=no Detectiont	Radar Frequency (MHz)	1=Detection 0=no Detectiont	Radar Frequency (MHz)	1=Detection 0=no Detectiont	
0	5498	1	5488	0	5490	1	5491	1	
1	5493	0	5489	1	5493	0	5493	1	
2	5496	1	5490	1	5492	1	5492	1	
3	5500	1	5491	1	5496	1	5490	1	
4	5499	1	5492	1	5497	1	5496	0	
5	5492	Lab 1	5493	1	5498	1	5495	Lab 1	
6 🔨	5510	1	5500	5. c51 ¹⁰⁵¹	5501	0	5498	1	
7	5501	1	5502	1	5500	1	5497	1	
8	5506	1	5503	0	5503	1	5499	1	
9	5503	1	5506	1	5504	1	5500	1	
10	5512	1	5507	1	5506	1	5501	1	
11	5516	1	5510	1	5509	1	5503	1	
12	5517	1	5516	1	5508	1	5506	1	
13	5524	1	5518	1	5510	1	5504	1	
14	5532	1	5519	1	5514	1	5508	1	
15	5524	1	5520	1	5519	1	5502	1	
16	5508	1	5522	1	5517	1	5509	1	
17	5507	1	5523	1	5511		5507	1	
18	5504	1	5526	1	5512	1	5510	1	
19	5517	1	5527	1	5513	sting 1	5511	D. Mar Joling	
20	5522	1	5530	1	5522	1	5512	LC ^D 1	
21	5521	1	5531	1	5526	0	5518	1	
22	5536	1	5532	1	5527	1	5519	1	
23	5522	1	5534	1	5528	1	5517	1	
24	5529	0	5535	1	5523	1	5520	1	
25	5533	1	5536	1	5524	1	5522	1	
26	5534	0	5537	1	5529	1	5536	1	
27	5539	0	5538	1	5530	0	5537	0	
28	5536	0	5539	1	5534	1	5539	0	
29	5530	1	5540	0	5536	0	5546	0	
Probability:	83	9.3	90	.0	8	3.3	86	.7	
Aggregate:	A THIN PE	差似		85.		60 JB (m			
-6	LCS Testing	J Lab	E	LCS Testing	1 rap	E	LCS Testing	Lab	



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	R	adar Ty	pe 1 - Rac	dar Wavefo	orm		Radar Type 2 - Radar Waveform							
Trial List							Tr	ial List -						
	Trial Id	Badar Type	Pulse Vidth (us)	PRI (us)	Number of Pulses	Taveform Length (us)			Trial Id	Radar Type	Pulse Vidth (us)	PRI (us)	Number of Pulses	Taveform Length (us)
Download	0	Type 1	1.0	938.0	57	53466.0	Do	ownload	0	Type 2	3.2	179.0	26	4654.0
Download	1	Type 1	1.0	698.0	76	53048.0	Do	ownload	1	Type 2	1.1	207.0	23	4761.0
Download	2	Type 1	1.0	618.0	86	53148.0	Do	ownload	2	Type 2	2.1	230.0	24	5520.0
Download	3	Туре 1	1.0	538.0	99	53262.0	Do	ownload	3	Type 2	4.8	200.0	29	5800.0
Download	4	Type 1	1.0	878.0	61	53558.0	Do	ownload	4	Type 2	3.9	214.0	28	5992.0
Download	5	Type 1	1.0	3066.0	18	55188.0	Do	ownload	5	Type 2	2.9	222.0	26	5772.0
Download	6	Type 1	1.0	638.0	83	52954.0	Do	ownload	6	Type 2	3.2	204.0	26	5304.0
Download	7	Type 1	1.0	918.0	58	53244.0	Do	ownload	7	Type 2	2.5	192.0	25	4800.0
Download	8	Type 1	1.0	838.0	63	52794.0	Do	ownload	8	Type 2	3.1	164.0	26	4264.0
Download	9	Type 1	1.0	858.0	62	53196.0	Do	ownload	9	Type 2	1.2	156.0	23	3588.0
Download	10	Type 1	1.0	798.0	67	53466.0	Do	ownload	10	Type 2	3.9	210.0	27	5670.0
Download	11	Type 1	1.0	718.0	74	53132.0	Do	ownload	11	Type 2	4.6	201.0	29	5829.0
Download	12	Type 1	1.0	578.0	92	53176.0	Do	ownload	12	Type 2	3.2	162.0	26	4212.0
Download	13	Type 1	1.0	598.0	89	53222.0	Do	ownload	13	Type 2	2.2	197.0	25	4925.0
Download	14	Type 1	1.0	558.0	95	53010.0	Do	ownload	14	Type 2	4.5	163.0	29	4727.0
Download	15	Type 1	1.0	2536.0	21	53256.0	Do	ownload	15	Type 2	3.0	203.0	26	5278.0
Download	16	Type 1	1.0	966.0	55	53130.0	Do	ownload	16	Type 2	5.0	168.0	29	4872.0
Download	17	Type 1	1.0	827.0	64	52928.0	Do	ownload	17	Type 2	2.4	217.0	25	5425.0
Download	18	Type 1	1.0	2501.0	22	55022.0	Do	ownload	18	Туре 2	2.9	191.0	26	4966.0
Download	19	Type 1	1.0	2595.0	21	54495.0	Do	ownload	19	Туре 2	2.3	166.0	25	4150.0
Download	20	Type 1	1.0	1114.0	48	53472.0	Do	ownload	20	Type 2	3. 7	150.0	27	4050.0
Download	21	Type 1	1.0	1302.0	41	53382.0	Do	ownload	21	Type 2	2.2	176.0	25	4400.0
Download	22	Type 1	1.0	3045.0	18	54810.0	Do	ownload	22	Type 2	4.9	195.0	29	5655.0
Download	23	Type 1	1.0	1624.0	33	53592.0	Do	ownload	23	Type 2	2.9	202.0	26	5252.0
Download	24	Type 1	1.0	2878.0	19	54682.0	Do	ownload	24	Type 2	2.5	178.0	25	4450.0
Download	25	Type 1	1.0	1027.0	52	53404.0	Do	ownload	25	Type 2	1.1	206.0	23	4738.0
Download	26	Type 1	1.0	2485.0	22	54670.0	Do	ownload	26	Type 2	3.8	155.0	27	4185.0
Download	27	Type 1	1.0	1600.0	33	52800.0	Do	ownload	27	Type 2	4.7	157.0	29	4553.0
Download	28	Type 1	1.0	1172.0	46	53912.0	Do	ownload	28	Type 2	2.4	224.0	25	5600.0
Download	29	Type 1	1.0	1177.0	45	52965.0	Do	ownload	29	Type 2	4.2	159.0	28	4452.0

Liter











	R	adar Ty	pe 3 - Rac	lar Wavefo	rm			R	Radar Ty	pe 4 - Ra	dar Wavefo	orm	
frial List							-Trial List						
	Trial Id	Radar Type	Pulse Vidth (us)	PRI (us)	Number of Pulses	Taveform Length (us)		Trial Id	Badar Type	Pulse Vidth (us)	PRI (us)	Number of Pulses	Waveford Length (us)
Download	0	Type 3	8.2	355.0	17	6035.0	Download	0	Type 4	16.0	355.0	14	4970.0
Download	1	Туре З	6.1	487.0	16	7792.0	Download	1	Type 4	11.3	487.0	12	5844.0
Download	2	Type 3	7.1	344.0	16	5504.0	Download	2	Type 4	13.5	344.0	13	4472.0
Download	3	Туре З	9.8	288.0	18	5184.0	Download	3	Type 4	19.4	288.0	16	4608.0
Download	4	Type 3	8.9	230.0	18	4140.0	Download	4	Type 4	17.5	230.0	15	3450.0
Download	5	Туре З	7.9	432.0	17	7344.0	Download	5	Type 4	15.3	432.0	14	6048.0
Download	6	Type 3	8.2	207.0	17	3519.0	Download	6	Type 4	15.9	207.0	14	2898.0
Download	7	Туре З	7.5	443.0	17	7531.0	Download	7	Type 4	14.3	443.0	13	5759.0
Download	8	Туре З	8.1	439.0	17	7463.0	Download	8	Type 4	15.8	439.0	14	6146.0
Download	9	Туре З	6.2	223.0	16	3568.0	Download	9	Type 4	11.5	223.0	12	2676.0
Download	10	Type 3	8.9	208.0	18	3744.0	Download	10	Type 4	17.4	208.0	15	3120.0
Download	11	Type 3	9.6	463.0	18	8334.0	Download	11	Type 4	19.0	463.0	16	7408.0
Download	12	Туре З	8.2	441.0	17	7497.0	Download	12	Type 4	16.0	441.0	14	6174.0
Download	13	Type 3	7.2	323.0	16	5168.0	Download	13	Type 4	13.8	323.0	13	4199.0
Download	14	Туре З	9.5	297.0	18	5346.0	Download	14	Type 4	18.9	297.0	16	4752.0
Download	15	Туре З	8.0	412.0	17	7004.0	Download	15	Type 4	15.5	412.0	14	5768.0
Download	16	Type 3	10.0	324.0	18	5832.0	Download	16	Type 4	19.9	324.0	16	5184.0
Download	17	Туре З	7.4	271.0	17	4607.0	Download	17	Type 4	14.1	271.0	13	3523.0
Download	18	Туре З	7.9	349.0	17	5933.0	Download	18	Type 4	15.2	349.0	14	4886.0
Download	19	Туре З	7.3	409.0	16	6544.0	Download	19	Type 4	13.8	409.0	13	5317.0
Download	20	Type 3	8.7	373.0	18	6714.0	Download	20	Type 4	17.1	373.0	15	5595.0
Download	21	Туре З	7.2	254.0	16	4064.0	Download	21	Type 4	13.8	254.0	13	3302.0
Download	22	Type 3	9.9	274.0	18	4932.0	Download	22	Type 4	19.8	274.0	16	4384.0
Download	23	Type 3	7.9	278.0	17	4726.0	Download	23	Type 4	15.3	278.0	14	3892.0
Download	24	Type 3	7.5	317.0	17	5389.0	Download	24	Type 4	14.5	317.0	13	4121.0
Download	25	Type 3	6.1	260.0	16	4160.0	Download	25	Type 4	11.3	260.0	12	3120.0
Download	26	Type 3	8.8	211.0	18	3798.0	Download	26	Type 4	17.3	211.0	15	3165.0
Download	27	Туре З	9.7	272.0	18	4896.0	Download	27	Type 4	19.2	272.0	16	4352.0
Download	28	Type 3	7.4	264.0	17	4488.0	Download	28	Type 4	14.2	264.0	13	3432.0
Download	29	Type 3	9.2	284.0	18	5112.0	Download	29	Type 4	18.2	284.0	15	4260.0

		Radar	Type 5		
Trail #	Radar Frequency (MHz)	1=Detection 0=No Detection	Trail #	Radar Frequency (MHz)	1=Detection 0=No Detection
0	5500	1	15	5503.23	1
1	5500	0	16	5505.5	1
2	5500	1	17	5505.5	1
3	5500	0	18	5502.23	1
4	5500	1	19	5501.5	0
5	5500	1	20	5496.5	1
6	5500	1	21	5498.9	1
7	5500	1	22	5494.5	MEP1
8	5500	1 1	23	5497.7	Apr ting Lay
9 9 60 68	5500	155 65	24	5498.1	1
10	5503.9	1	25	5500.5	1
11	5505.1	1	26	5496.1	0
12	5502.7	1	27	5494.9	1
13	5501.5	1	28	5498.5	1
14	5504.7	0	29	5495.7	1
Detection Percentage (%)		83.3			



行業

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1.81



Radar Type 5 - Radar Waveform_#0

									0.0		 THE ARE AND IN THE
	at List	Trial Id	Radar Type	Humber of Bursts	Burst Period (s)	Taveform Length (s)	Center Frequency (GHz)				LCS Testins
E	Download	0	Type 5	15	0.8000000	12.8000000	5.50000000				
			Burst ID	Burst Offset (us)	Pulse Vidth (us)	Chirp Vidth (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)	
			0	636185.0	77.8	13	2	1665.0	1477.0		
			1	32674.0	51.9	13	1	1074.0		70	
	5	80	2	226294.0	63.8	13	1	1584.0		-	
			3	417976.0	96.6	13	3	1682.0	1786.0	1843.0	
			4	611152.0	85.9	13	3	1795.0	1215.0	1729.0	
			5	8789.0	73. 7	13	2	1198.0	1549.0	<u>.</u>	
		5	6	201917.0	77.2	13	2	1837.0	1819.0	-	
I			7	395530.0	68.4	13	2	1587.0	1114.0	70	
	5	80 85	8	588564.0	76.7	13	2	2000.0	1155.0	-	
			9	783794.0	53.2	13	1	1147.0	<u>7</u> 3	70	(3
	5		10	177933.0	85. 7	13	3	1433.0	1695.0	1394.0	dis
			11	370624.0	94.3	13	3	1670.0	1426.0	1935.0	
		201 201	12	564893.0	77.6	13	2	1294.0	1671.0		
I			13	759583.0	65. 7	13	1	1512.0	73	<u>.</u>	
1			14	154262.0	93.5	13	3	1444.0	1130.0	1468.0	

Radar Type 5 - Radar Waveform_#1

🗄 Down	load 1	Type 5	8	1.5000000	12.8000000	5.500000000			5
		Burst ID	Burst Offset (us)	Pulse Fidth (us)	Chirp Vidth (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
		0	653020.0	75.0	5	2	1880.0	1527.0	
		1	1015643.0	99.4	5	3	1401.0	1262.0	1257.0
		2	1379398.0	67.4	5	2	1531.0	1403.0	
		3	245489.0	73.6	5	2	1449.0	1041.0	-
		4	609113.0	65.9	5	1	1432.0	2	
		5	970852.0	83.8	5	3	1356.0	1292.0	1419.0
		6	1335913.0	65.5	5	1	1543.0	2	
		7	200406.0	98.6	5	3	1548.0	1796:0	1728.0

Download	2 Type !	5 11	1.0909091	12.8000000	5.500000000			
-	Burst	t ID Burst Offset (us)	Pulse Width (us)	Chirp Vidth (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	409565.0	73.8	9	2	1806.0	1538.0	-
	1	673692.0	69.5	9	2	1117.0	1649.0	-
	2	938562.0	51.9	9	1	1651.0	1	-
	3	113209.0	84.6	9	3	1976.0	1032.0	1271.0
	4	376726.0	95.4	9	3	1060.0	1903.0	1388.0
	5	641212.0	68.0	9	2	1368.0	1351.0	-
	6	903714.0	89.6	9	3	1338.0	1514.0	1573.0
	7	80863.0	81.9	9	2	1022.0	1689.0	-
	8	344067.0	88.3	9	3	1810.0	1330.0	1838.0
	9	609331.0	53.7	9	1	1597.0	-	-
	10	871542.0	91.3	9	3	1961.0	1106.0	1001.0





🖃 Download 3	Type 5	20	0.6000000	12.8000000	5.50000000			
	Burst ID	Burst Offset (us)	Pulse Vidth (us)	Chirp Vidth (MHz)	Humber of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	26541.0	68.1	19	2	1339.0	1355.0	-
	1	171821.0	58.7	19	1	1251.0		₹.
	2	316229.0	75.3	19	2	1136.0	1640.0	-
	3	461864.0	56.4	19	1	1753.0	2	7 .
	4	8677.0	99.7	19	3	1196.0	1708.0	1159.0
	5	153995.0	57.7	19	1	1013.0	-	
	6	299238.0	59.5	19	1	1072.0	-	-
	7	443177.0	80.0	19	2	1482.0	1369.0	
	8	587671.0	82.0	19	2	1993.0	1197.0	-
	9	135674.0	82.8	19	2	1883.0	1005.0	T:
	10	279928.0	88.0	19	3	1061.0	1928.0	1101.0
	11	424279.0	93.2	19	3	1207.0	1907.0	1223.0
	12	570132.0	70.4	19	2	1526.0	1360.0	-
	13	117439.0	95.3	19	3	1171.0	1955.0	1775.0
	14	262502.0	81.9	19	2	1690.0	1545.0	-
	15	406573.0	98.5	19	3	1975.0	1169.0	1062.0
	16	553328.0	65.0	19	1	1767.0	-	-
	17	99799.0	85.4	19	3	1011.0	1637.0	1425.0
	18	244095.0	91.6	19	3	1878.0	1445.0	1325.0
	19	390012.0	67.3	19	2	1091.0	1218.0	T.

Radar Type 5 - Radar Waveform_#4

🖃 Download	4	Type 5	17	0.7058824	12.8000000	5.50000000			
		Burst ID	Burst Offset (us)	Pulse Vidth (us)	Chirp Vidth (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
		0	629614.0	67.9	16	2	1320.0	1133.0	-
		1	96856.0	62.3	16	1	1957.0	-	5
		2	267719:0	53.3	16	1	1592.0	-	-
		3	436784.0	90.0	16	3	1900.0	1153.0	1346.0
		4	608289.0	77.1	16	2	1166.0	1646.0	-
		5	75610.0	83.9	16	3	1278.0	1232.0	1459.0
		6	245638.0	89.1	16	3	1240.0	1384.0	1939.0
		7	416355.0	81.8	16	2	1833.0	1676.0	3
	1	8	588736.0	50.3	16	1	1075.0	-	-
		9	54571.0	87.1	16	3	1116.0	1996.0	1756.0
		10	225175.0	71.3	16	2	1225.0	1815.0	-
		11	394825.0	97.5	16	3	1884.0	1465.0	1132.0
		12	565361.0	90.6	16	3	1561.0	1040.0	1354.0
		13	33643.0	86.3	16	3	1596.0	1183.0	1792.0
	1	14	203957.0	97.6	16	3	1365.0	1073.0	1361.0
		15	373812.0	84. 7	16	3	1021.0	1718.0	1854.0
		16	544060:0	99.7	16	3	1150.0	1244.0	1988.0

Radar Type 5 - Radar Waveform_#5

I	ownload	5	Type 5	14	0.8571429	12.8000000	5.50000000			
			Burst ID	Burst Offset (us)	Pulse Vidth (us)	Chirp Vidth (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
			0	15438.0	92.9	12	3	1085.0	1564.0	1407.0
			1	222486.0	67.7	12	2	1744.0	1747.0	
			2	430731.0	65.8	12	1	1092.0	75	
			3	637784.0	56.3	12	1	1851.0		
			4	845342.0	53. 7	12	1	1727.0	75	
			5	196720.0	83.5	12	3	1679.0	1930.0	1025.0
			6	404955.0	65.8	12	1	1519.0	75	-
			7	610711.0	85.9	12	3	1134.0	1034.0	1808.0
			8	818057.0	76.3	12	2	1606.0	1926.0	
			9	171459.0	81.5	12	2	1891.0	1714.0	
			10	377969.0	89.4	12	3	1310.0	1594.0	1827.0
			11	586875.0	63.4	12	1	1568.0		
			12	792834.0	69.6	12	2	1307.0	1925.0	
			13	146044.0	74.5	12	2	1264.0	1846.0	

Radar Type 5 - Radar Waveform_#6



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	Breat TB	Burst	Pulse	Chirp	Number of	PRT-1 ()	PRT_2 ()	PPT-2 ()			
	Burst 10	(us)	Tidth (us)	(IHz)	Burst	rai-1 (us)	781-2 (us)	rm=3 (us)			
51	0	329022.0	96.6	13	3	1182.0	1609.0	1581.0			
	1	521718.0	96.7	13	3	1829.0	1799.0	1154.0	1		
	2	112450.0	72.2	13	3	1923.0	1396.0	1865.U			
	4	306283.0	55.8	13	1	1688.0	-	-	1		
	5	500239.0	55.4	13	1	1145.0	-	-			
	6	690932.0	85.3	13	3	1336.0	1504.0	1820.0			
	7	88645.0	79.4	13	2	1344.0	1893.0	-			
	8	282508.0	65.7	13	1	1476.0	-	-			
	9	475842.0	68.6	13	2	1008.0	1028.0	-	1		
	10	667887.0	77.7	13	2	1972.0	1835.0	-			
	11	64845.0	79.6	13	2	1882.0	1331.0	-	3		
	12	257755.0	94.9	13	3	1830.0	1070.0	1349.0			
	13	452335.0	90.6	13	2	1951.0	1562.0	- 1997 0			
	N74	040000.0	00.0	15	A DEVE A DO	1200.0	1002.0	1001.0	and Miles		
		Ra	dar Type 5	- Radar \	Naveform_	#7					
Download 7	Type 5	12	1.0000000	12.8000000	5.500000000						
	Burst ID	Burst Offset (us)	Pulse Vidth (us)	Chirp Tidth (THz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)			
	0	51446.0	52.6	10	1	1210.0	776	-			
	1	292696.0	84.1	10	3	1314.0	1725.0	1529.0			
	2	533989.0	97. 7	10	3	1139.0	1868.0	1805.0			
	3	775564.0	97.3	10	3	1341.0	1446.0	1755.0			
	4	21542.0	98.8	10	3	1544.0	1386.0	1302.0			
	6	263385.0	12.2 ez e	10	2	1175.0	1184.U	-			
	7	747058.0	25.7	10	2	1026.0	1027.0	-			
	8	989976.0	60.9	10	1	1798.0	-	-			
	9	234024.0	64.2	10	1	1138.0	-	-			
	10	475207.0	78.8	10	2	1784.0	1604.0				
	11	715825.0	87.5	10	3	1511.0	1712.0	1683.0			
	•	Ra	dar Type 5	- Radar \	Naveform	#8					
Download 8	Type 5	14	0.8571429	12.0000000	5.500000000						
	Burst ID	Burst Offset	Pulse Vidth (us)	Chirp Tidth	Number of Pulses per	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)			
		and the second sec			I have not not the						
<u> </u>	0	(us) 823112.0	54.1	13	1 Burst	1415.0	-	-			
	0	(us) 823112.0 174965.0	54.1 50.7	13 13	1 1	1415.0 1221.0	-	-			
	0 1 2	(us) 823112.0 174965.0 382216.0	54. 1 50. 7 52. 3	13 13 13	Burst 1 1 1 1	1415.0 1221.0 1974.0		-			
	0 1 2 3	(us) 823112.0 174965.0 382216.0 587395.0	54.1 50.7 52.3 99.8	13 13 13 13 13	Burst 1 1 3	1415.0 1221.0 1974.0 1558.0	- - 1696.0	- - 1949.0			
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	0 1 2 3 4 5 6	(us) 823112.0 174965.0 382216.0 587395.0 796897.0 149042.0 356750.0	54. 1 50. 7 52. 3 99. 8 68. 4 80. 8 62. 5	13 13 13 13 13 13 13 13 13 13	Burst 1 1 3 2 2 1	1415.0 1221.0 1974.0 1558.0 1014.0 1736.0 1778.0	- - 1696.0 1099.0 1505.0 -	- - 1949.0 - -			
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	0 1 2 3 4 5 6 6 7 8 8 9 9	(us) 823112.0 174965.0 382216.0 587395.0 796897.0 149042.0 356750.0 563824.0 772314.0 123796.0 331215.0	54.1 50.7 52.3 99.8 68.4 80.8 62.5 74.8 50.8 50.8 54.0 63.0	(Unit2) 13 13 13 13 13 13 13 13 13 13	Burst 1 1 3 2 1 2 1 1 3 2 1 1 1 1 1 1 1 1 1	1415.0 1221.0 1974.0 1558.0 1014.0 1736.0 1778.0 1149.0 1049.0 1417.0 1730.0	- - 1696.0 1099.0 1505.0 - 1204.0 - -				
	0 1 2 3 4 5 6 6 7 8 8 9 9 10 11	(us) 823112.0 174965.0 382216.0 587395.0 796897.0 149042.0 356750.0 563824.0 772314.0 123796.0 331215.0 57402.0	54.1 50.7 52.3 99.8 68.4 80.8 62.5 74.8 50.8 50.8 54.0 63.0 91.8 91.8	13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13	Burst 1 1 3 2 2 1 1 3 2 1 1 1 1 1 1 1 1 1 1 1 3	1415.0 1221.0 1974.0 1558.0 1014.0 1736.0 1778.0 1149.0 1049.0 1447.0 1730.0 1143.0	- - 1696.0 1099.0 1505.0 - 1204.0 - - 1270.0				
	0 1 2 3 4 5 6 6 7 8 8 9 9 10 10 11	(us) 823112.0 174965.0 382216.0 587395.0 796897.0 149042.0 356750.0 563824.0 772314.0 123796.0 331215.0 57402.0 744805.0	54.1 50.7 52.3 99.8 68.4 80.8 62.5 74.8 50.8 50.8 54.0 63.0 91.8 79.3	13 13	Burst 1 1 3 2 2 1 3 2 1 1 3 2 1 1 1 3 2 1 1 3 2	1415.0 1221.0 1974.0 1558.0 1014.0 1736.0 1778.0 1149.0 1049.0 1447.0 1730.0 1143.0 1274.0	- - 1696.0 1099.0 1505.0 - 1204.0 - - 1270.0 1992.0				
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Download 9	0 1 2 3 4 5 6 7 8 9 10 11 12 13 Type 5 Burst ID	(us) 623112.0 174965.0 382216.0 587395.0 796897.0 149042.0 356750.0 563824.0 772314.0 123796.0 331215.0 537402.0 744805.0 98172.0 Ra 8 Burst 0 55 55 4 5 5 5 5 5 5 5 5 5 5 5 5 5	54.1 50.7 52.3 99.8 68.4 80.8 62.5 74.8 50.8 54.0 63.0 91.8 79.3 64.3 Car Type 5 1.500000 Pulse Yidth (us)	13 13 13 13 13 13 13 13 13 13	Burst 1 1 1 1 2 1 2 1 2 1 3 2 1 1 3 2 1 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 5.50000000 Masker of Particles per	1415.0 1221.0 1974.0 1558.0 1014.0 1736.0 1778.0 1149.0 1049.0 1417.0 1417.0 1417.0 1413.0 1274.0 1937.0 #9 PRI-1 (us)					
Image: Second	0 1 2 3 4 5 6 7 8 9 10 11 12 13 Type 5 Burst ID 0	(us) 623112.0 174965.0 382216.0 587395.0 796897.0 149042.0 356750.0 563824.0 772314.0 123796.0 331215.0 537402.0 744805.0 98172.0 Ra 8 Burst 0ffset (us) 535615.0	54. 1 50. 7 52. 3 99. 8 68. 4 80. 8 62. 5 74. 8 50. 8 54. 0 63. 0 91. 8 79. 3 64. 3 Car Type 5 1, 5000000 Pulse yith (us) 63. 4	13 13 13 13 13 13 13 13 13 13	Burst 1 1 1 1 2 2 1 2 1 1 3 2 1 1 3 2 1 1 3 2 1 3 2 1 3 2 1 5.50000000 Masker of Palses per 1	1415.0 1415.0 1221.0 1974.0 1558.0 1014.0 1736.0 1778.0 1149.0 1049.0 1417.0 1417.0 1417.0 143.0 1274.0 1937.0 #9 PRI-1 (us) 1043.0					
Download 9	0 1 2 3 4 5 6 7 8 9 10 11 12 13 Type 5 Burst ID 0 1	(us) 623112.0 174965.0 382216.0 587395.0 796897.0 149042.0 356750.0 563824.0 772314.0 123796.0 331215.0 537402.0 744805.0 98172.0 Ra 8 Burst Offset (us) 535615.0 898668.0	54. 1 50. 7 52. 3 99. 8 68. 4 80. 8 62. 5 74. 8 50. 8 54. 0 63. 0 91. 8 79. 3 64. 3 Car Type 5 1.500000 Pulse ♥idth (us) 63. 4 52. 0	13 13 13 13 13 13 13 13 13 13	Burst 1 1 1 1 2 2 1 2 1 1 3 2 1 1 3 2 1 1 3 2 1 3 2 1 3 2 1 5.500000000 Palses per Burst 1 1	1415.0 1415.0 1221.0 1974.0 1558.0 1014.0 1736.0 1736.0 1778.0 1149.0 1049.0 1417.0 1417.0 143.0 1274.0 1937.0 #9 PRI-1 (us) 1043.0 1863.0					
Image: Control of the second	0 1 2 3 4 5 6 7 8 9 10 11 12 13 7 Fype 5 Barst ID 0 1 2	(us) 623112.0 174965.0 382216.0 587395.0 796897.0 149042.0 356750.0 563824.0 772314.0 123796.0 331215.0 537402.0 744805.0 98172.0 Ra 8 8 8 8 8 8 8 8 8 8 8 8 8	54. 1 50. 7 52. 3 99. 8 68. 4 80. 8 62. 5 74. 8 50. 8 54. 0 63. 0 91. 8 79. 3 64. 3 Control 10 63. 4 Fulse ▼idth (us) 63. 4 52. 0 97. 2	13 13 13 13 13 13 13 13 13 13	Burst 1 1 1 1 2 2 1 2 1 1 3 2 1 1 3 2 1 3 2 1 3 2 1 5 50000000 Pulses per Burst 1 3	1415.0 1415.0 1221.0 1974.0 1558.0 1014.0 1736.0 1736.0 1778.0 149.0 149.0 149.0 149.0 149.0 1417.0 1730.0 1143.0 1274.0 1937.0 #9 PRI-1 (us) 1043.0 1863.0 1973.0					
Download 9	0 1 2 3 4 5 6 7 8 9 10 11 12 13 13 Type 5 Burst ID 0 1 1 2 3	(us) (us) 823112.0 174965.0 382216.0 587395.0 796897.0 149042.0 356750.0 566750.0 563824.0 772314.0 123796.0 331215.0 537402.0 744805.0 98172.0 80172.0 6 Burst Offset 8 Sestin 5.0 8986615.0 8986615.0 898662.0 1259235.0 127106.0 127106.0	54.1 50.7 52.3 99.8 68.4 80.8 62.5 74.8 50.8 54.0 63.0 91.8 79.3 64.3 64.3 Control Control Pulse Fidth (us) 63.4 55.0 63.4 55.0 97.2 78.7	13 13 13 13 13 13 13 13 13 13	Burst 1 1 1 1 2 2 1 2 1 3 2 1 1 3 2 1 3 2 1 3 2 1 5.50000000 Hunber of Pulses per Burst 1 3 2	1415.0 1221.0 1974.0 1558.0 1014.0 1736.0 1778.0 149.0 149.0 149.0 149.0 149.0 1417.0 1730.0 1413.0 1274.0 1937.0 PRI-1 (us) 1043.0 1863.0 1973.0 1466.0					
Download 9	0 1 2 3 4 5 6 7 8 9 10 11 12 13 Type 5 Burst ID 0 1 2 3 4 4 5 5 6 7 8 8 9 10 11 12 13 13 13 13 13 13 13 13 13 13	823112.0 823112.0 823112.0 174965.0 382216.0 587395.0 796897.0 149042.0 356750.0 56750.0 56750.0 536750.0 537402.0 772314.0 123796.0 331215.0 537402.0 744805.0 98172.0 6 50265.0 535615.0 535615.0 535615.0 898666.0 1259235.0 127106.0 127106.0 490358.0 127106.0 490358.0 127106.0 12710	54.1 55.3 59.8 68.4 80.8 62.5 74.8 50.8 54.0 63.0 91.8 79.3 64.3 Car Type 5 1.500000 Pulse vidth (us) 63.4 52.0 63.4 52.0 63.7 78.7 74.2	13 14 15 16 6 <tr td=""></tr>	Burst 1 1 1 1 2 2 1 1 3 2 1 1 3 2 1 1 3 2 1 3 2 1 5.50000000 Hunber of Pulses per Burst 1 3 2 1 3 2 2 2	1415.0 1221.0 1974.0 1558.0 1014.0 1736.0 1778.0 149.0 1466.0 1280.0 149.0 149.0 149.0 149.0 149.0 140.0					
Download 9	0 1 2 3 4 5 6 7 8 9 10 11 12 13 Type 5 Burst ID 0 12 3 4	823112.0 823112.0 823112.0 174965.0 382216.0 587395.0 796897.0 149042.0 356750.0 56750.0 56750.0 536750.0 537402.0 772314.0 123796.0 331215.0 537402.0 744805.0 98172.0 744805.0 98172.0 535615.0 802565.0 535615.0 802565.0 1259235.0 127106.0 12529235.0 127106.0 490358.0 852409.0 852400.0 852400.0 852400.0	54.1 55.3 99.8 68.4 80.8 62.5 74.8 50.8 54.0 63.0 91.8 79.3 64.3 Car Type 5 1.500000 Pulse vidth (us) 63.4 52.0 63.4 52.0 63.7 74.2 88.7	13 14 0 <tr td=""></tr>	Burst 1 1 1 1 2 2 1 1 3 2 1 1 1 1 1 1 3 2 1 3 2 1 5.50000000 Hunber of Pulses per Burst 1 3 2 1 3 2 2 3 2 2 3	1415.0 1221.0 1974.0 1558.0 1014.0 1736.0 1778.0 149.0 149.0 149.0 149.0 149.0 149.0 149.0 149.0 149.0 143.0 1274.0 1937.0 PRI-1 (us) 1043.0 1863.0 1973.0 1466.0 1280.0 1293.0					
Image: Control of the second	0 1 2 3 4 5 6 7 8 9 10 11 12 13 Type 5 Barst ID 0 1 2 3 4 5	Base Base 823112.0 174965.0 382216.0 587395.0 796897.0 149042.0 356750.0 566750.0 563824.0 772314.0 123796.0 331215.0 537402.0 744805.0 98172.0 8 Burst Offset 0ffset 535615.0 898668.0 1259235.0 1259235.0 1259235.0 127106.0 490358.0 82409.0 1217152.0	54.1 55.3 59.8 68.4 80.8 62.5 74.8 50.8 54.0 63.0 91.8 79.3 64.3 Car Type 5 1.500000 Pulse vidth (us) 63.4 52.0 63.4 52.0 63.4 52.0 83.7 74.2 88.7 74.2	13 14 0000000 Chirp Vidth (DHz) 6	Burst 1 1 1 1 2 2 1 1 3 2 1 1 1 1 1 1 1 3 2 1 3 2 1 5.50000000 Munber of Pulses per Burst 1 3 2 1 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 1	1415.0 1221.0 1974.0 1558.0 1014.0 1736.0 1778.0 149.0 149.0 149.0 149.0 149.0 149.0 149.0 149.0 143.0 1274.0 1937.0 PRI-1 (us) 1043.0 1863.0 1973.0 1466.0 1293.0 1991.0					
Image: Control of the sector of the secto	0 1 2 3 4 5 6 7 8 9 10 11 12 13 Type 5 Burst ID 0 1 2 3 4 5 6 7	Base Base 623112.0 174965.0 382216.0 587395.0 796897.0 149042.0 356750.0 566750.0 563624.0 772314.0 123796.0 331215.0 537402.0 744805.0 98172.0 6 Cff Status Cff Status Cff Status Colspan="2">Colspan="2" Colspan="2">Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" <th <="" colspan="2" td=""><td>54.1 55.3 59.8 68.4 80.8 62.5 74.8 50.8 54.0 63.0 91.8 79.3 64.3 Control 63.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.3 83.4 52.3 83.4 52.5 74.8 52.3 74.8 54.1 74.8 55.3 74.8 55.7 74.8 55.7 74.8 55.7 74.8 55.7 74.8 55.7 74.8 77.3 77.3 77.3 77.3 77.3 77.3 77.3 77</td><td>13 14 15 16 6</td><td>Burst 1 1 1 1 2 2 1 1 3 2 1 1 1 1 2 1 3 2 1 3 2 1 5.60000000 Hunber of Polses per Burst 1 3 2 1 3 2 3 2 3 2 3 1 3 2 3 1 3 2 3 1 3 2 3 1 3</td><td>1415.0 1221.0 1221.0 1374.0 1558.0 1014.0 1736.0 1778.0 149.0 149.0 149.0 149.0 149.0 149.0 149.0 143.0 1274.0 1937.0 FRI-1 (us) 1043.0 1943.0 1943.0 1943.0 1946.0 1280.0 1293.0 1991.0 1580.0</td><td></td><td></td><td></td></th>	<td>54.1 55.3 59.8 68.4 80.8 62.5 74.8 50.8 54.0 63.0 91.8 79.3 64.3 Control 63.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.3 83.4 52.3 83.4 52.5 74.8 52.3 74.8 54.1 74.8 55.3 74.8 55.7 74.8 55.7 74.8 55.7 74.8 55.7 74.8 55.7 74.8 77.3 77.3 77.3 77.3 77.3 77.3 77.3 77</td> <td>13 14 15 16 6</td> <td>Burst 1 1 1 1 2 2 1 1 3 2 1 1 1 1 2 1 3 2 1 3 2 1 5.60000000 Hunber of Polses per Burst 1 3 2 1 3 2 3 2 3 2 3 1 3 2 3 1 3 2 3 1 3 2 3 1 3</td> <td>1415.0 1221.0 1221.0 1374.0 1558.0 1014.0 1736.0 1778.0 149.0 149.0 149.0 149.0 149.0 149.0 149.0 143.0 1274.0 1937.0 FRI-1 (us) 1043.0 1943.0 1943.0 1943.0 1946.0 1280.0 1293.0 1991.0 1580.0</td> <td></td> <td></td> <td></td>		54.1 55.3 59.8 68.4 80.8 62.5 74.8 50.8 54.0 63.0 91.8 79.3 64.3 Control 63.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.0 83.4 52.3 83.4 52.3 83.4 52.5 74.8 52.3 74.8 54.1 74.8 55.3 74.8 55.7 74.8 55.7 74.8 55.7 74.8 55.7 74.8 55.7 74.8 77.3 77.3 77.3 77.3 77.3 77.3 77.3 77	13 14 15 16 6	Burst 1 1 1 1 2 2 1 1 3 2 1 1 1 1 2 1 3 2 1 3 2 1 5.60000000 Hunber of Polses per Burst 1 3 2 1 3 2 3 2 3 2 3 1 3 2 3 1 3 2 3 1 3 2 3 1 3	1415.0 1221.0 1221.0 1374.0 1558.0 1014.0 1736.0 1778.0 149.0 149.0 149.0 149.0 149.0 149.0 149.0 143.0 1274.0 1937.0 FRI-1 (us) 1043.0 1943.0 1943.0 1943.0 1946.0 1280.0 1293.0 1991.0 1580.0			
Image: Control of the second secon	0 1 2 3 4 5 6 7 8 9 10 11 12 13 Type 5 Burst ID 0 1 2 3 4 5 6 7	Base Base 623112.0 174965.0 382216.0 587395.0 796897.0 149042.0 356750.0 566750.0 563624.0 772314.0 123796.0 331215.0 537402.0 744805.0 98172.0 6 Barst Cff58et Cff58et Cff58et Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2" Colspan="2">Colspan="2" Colspan="2"	54.1 55.3 59.8 68.4 80.8 62.5 74.8 50.8 54.0 63.0 91.8 79.3 64.3 64.3 64.3 Control Control Pulse Vidth (us) 63.4 52.0 52.0 52.0 97.2 78.7 74.2 88.7 54.3 95.4	13 14 15 16 6	Burst 1 1 1 1 2 1 2 1 1 3 2 1 1 3 2 1 3 2 1 3 2 1 5.50000000 Hubber of Pulses per Burst 1 3 2 1 3 2 1 3 2 3 2 3 1 3 2 3 1 3 2 3 1 3 1 3	1415.0 1221.0 1974.0 1558.0 1014.0 1736.0 1778.0 1778.0 149.0 149.0 149.0 149.0 149.0 149.0 149.0 149.0 149.0 143.0 1274.0 1937.0 #9 PRI-1 (us) 1043.0 1933.0 1466.0 1280.0 1293.0 1991.0 1560.0					



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工工训修

Download	10	Type 5	17	0.7058824	12.8000000	5, 503900000			
		Burst ID	Burst Offset (us)	Pulse Tidth (us)	Chirp Vidth (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
		0	209249.0	73. 7	16	2	1208.0	1497.0	20
		1	378386: 0	97.4	16	3	1942.0	1754.0	1613.0
		2	548411.0	91.7	16	3	1999.0	1702.0	1462.0
	1	3	17733.0	66.2	16	18	1393.0	-	-
		4	187952.0	70.8	16	2	1968.0	1821.0	20
	1	5	359277.0	52.3	16	18	1740.0	-	-
		6	528886.0	78.9	16	2	1308.0	1984.0	20
		7	700166.0	70.9	16	2	1050:0	1358.0	-
		8	167197.0	75.6	16	2	1437.0	1430.0	20
	1	9	338262.0	59.1	16	18	1697.0	-	-
		10	508324.0	77.0	16	2	1397.0	1304.0	20
		11	678689.0	67.9	16	2	1803.0	1083.0	-
		12	146031.0	81.2	16	2	1720.0	1932.0	20
	2	13	316923: 0	78.7	16	2	1247.0	1121.0	-
		14	488056.0	63.3	16	1	1634.0	20	
		15	657326:0	68.9	16	2	1849.0	1423.0	-
		16	125509.0	59.3	16	1	1093.0	20	<u>20</u>

Radar Type 5 - Radar Waveform_#11

Download	11	Type 5	19	0.6315789	12.8000000	5.505100000				
		Burst ID	Burst Offset (us)	Pulse Vidth (us)	Chirp Vidth (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)	
		0	263736.0	98.9	19	3	1381.0	1680.0	1488.0	
		1	416459.0	82.3	19	2	1716.0	1855.0	-	
		2	567902.0	86.7	19	3	1211.0	1400.0	1919.0	
		3	92979.0	89.7	19	3	1861.0	1068.0	1282.0	
		4	245155.0	98.6	19	3	1507.0	1194.0	1461.0	
		5	397609.0	71.1	19	2	1921.0	1789.0	-	-
		6	551431.0	55.9	19	1	1947.0		.	
		7	74413.0	67.9	19	2	1350.0	1372.0	-	
		8	226559.0	84.4	19	3	1203.0	1107.0	1443.0	-
		9	380056.0	58.8	19	1	1715.0	-	-	
		10	533408.0	65.6	19	1	1017.0	5	-	
		11	55547.0	78.5	19	2	1911.0	1704.0	-	
		12	207876.0	82.3	19	2	1845.0	1686.0	-	-
		13	359771.0	90.1	19	3	1938.0	1071.0	1266.0	
		14	511297.0	90.2	19	3	1989.0	1089.0	1950.0	
		15	36803.0	83.1	19	2	1943.0	1406.0	-	-
		16	189652.0	58.8	19	1	1742.0	=	=	
		17	341809.0	77.0	19	2	1187.0	1657.0	-	-
		18	495737.0	55.0	19	1	1012.0	=	-	
20 K.					1					

Download	12	Type 5	15	0.800000	12.8000000	5.502700000				
		Burst ID	Burst Offset (us)	Pulse Vidth (us)	Chirp Vidth (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)	
		0	22911.0	58.1	13	1	1929.0	770		
		1	216473.0	52.1	13	1	1910.0		-	
		2	410004.0	59.9	13	1	1971.0	770	70	
		3	603671.0	60.2	13	1	1812.0	-	-	
		4	794160.0	95.9	13	3	1399.0	1906.0	1608.0	
		5	192251.0	79.9	13	2	1626.0	1859.0	-	_
		6	385590.0	78.5	13	2	1238.0	1917.0	50	
		7	579862.0	53.8	13	1	1763.0		-	_
		8	773423.0	64. 7	13	1	1800.0	770	50	
		9	168898.0	61.4	13	1	1390.0	-	-	_
		10	361606.0	83.2	13	2	1692.0	1858.0	57)	
		11	553866.0	84. 7	13	3	1533.0	1677.0	1638.0	_
		12	747241.0	88. 7	13	3	1703.0	1528.0	1058.0	
		13	144710.0	78.3	13	2	1258.0	1951.0	-	_
		14	337856.0	69.3	13	2	1731.0	1717.0		

Radar Type 5 - Radar Waveform_#13



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E TRA

POWITIONG	10	Type o	12	1.0000000	12.0000000	5.501500000				
		Burst ID	Burst Offset (us)	Pulse Vidth (us)	Chirp Tidth (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)	
		0	664275.0	75.3	10	2	1994.0	1612.0	78	
		1	907886.0	56.3	10	1	1456.0	-	-	
		2	151316.0	67.7	10	2	1617.0	1185.0		
		3	393746.0	55.6	10	1	1337.0	-	-	
		4	635093.0	75.2	10	2	1421.0	1267.0	78	
		5	876993.0	76.3	10	2	1359.0	1305.0	-	
		6	121278.0	85.7	10	3	1547.0	1362.0	1924.0	
		7	362696.0	98.4	10	3	1873.0	1550.0	1249.0	
		8	604342.0	86.4	10	3	1779.0	1439.0	1046.0	
		9	846453.0	93.6	10	3	1059.0	1031.0	1452.0	
		10	91871.0	63.3	10	1	1328.0	76		
		11	333050, 0	92.4	10	3	1412.0	1673.0	1322.0	
		•	Rac	lar Type 5	- Radar W	/aveform_i	#14		•	
Download	14	Type 5	19	0.6315789	12.8000000	5. 504700000				
	-	Burst ID	Burst Offset	Pulse	Chirp Width	Number of	PRT-1 (ns)	PRT-2 (ns)	PRT-3 (ns)	
			(us)	Width (us)	(IIIHz)	Burst				
		0	(us) 361323.0	Vidth (us) 93.3	(IIIHz) 18	Burst 3	1983.0	1912.0	1535.0	
		0	(us) 361323.0 515261.0	Vidth (us) 93.3 69.1	(IEHz) 18 18	Burst 3 2	1983.0 1102.0	1912.0 1794.0	1535.0	
		0 1 2	(us) 361323.0 515261.0 39025.0	Width (us) 93.3 69.1 86.9	(IIIHz) 18 18 18	Burst 3 2 3	1983.0 1102.0 1044.0	1912.0 1794.0 1152.0	1535.0 - 1148.0	
		0 1 2 3	(us) 361323.0 515261.0 39025.0 190900.0	Vidth (us) 93.3 69.1 86.9 84.9	(mHz) 18 18 18 18 18	Burst 3 2 3 3 3	1983.0 1102.0 1044.0 1894.0	1912.0 1794.0 1152.0 1948.0	1535.0 - 1148.0 1118.0	
		0 1 2 3 4	(us) 361323.0 515261.0 39025.0 190900.0 343941.0	Tidth (us) 93.3 69.1 86.9 84.9 72.3	(mHz) 18 18 18 18 18 18 18 18	Burst 3 2 3 3 3 2 2 2 2 2	1983.0 1102.0 1044.0 1894.0 1094.0	1912.0 1794.0 1152.0 1948.0 1916.0	1535.0 - 1148.0 1118.0 -	
		0 1 2 3 4 5	(us) 361323.0 515261.0 39025.0 190900.0 343941.0 497624.0	Vidth (us) 93.3 69.1 86.9 84.9 72.3 51.7	(m)(z) 18 18 18 18 18 18 18 18 18	Burst 3 2 3 3 2 2 3 3 2 1	1983.0 1102.0 1044.0 1894.0 1094.0 1447.0	1912.0 1794.0 1152.0 1948.0 1916.0 -	1535.0 - 1148.0 1118.0 - -	
		0 1 2 3 4 5 6	(us) 361323.0 515261.0 39025.0 190900.0 343941.0 497624.0 20319.0	Vidth (us) 93.3 69.1 86.9 84.9 72.3 51.7 58.3	(m)(z) 18 18 18 18 18 18 18 18 18 18	Burst 3 2 3 3 2 2 1 1 1	1983.0 1102.0 1044.0 1894.0 1094.0 1447.0 1429.0	1912.0 1794.0 1152.0 1948.0 1916.0 -	1535.0 - 1148.0 1118.0 - - - -	
		0 1 2 3 4 5 6 7	(us) 361323.0 515261.0 39025.0 190900.0 343941.0 497624.0 20319.0 172999.0	Vidth (us) 93.3 69.1 86.9 84.9 72.3 51.7 58.3 60.8	(mHz) 18 18 18 18 18 18 18 18 18 18	Burst 3 2 3 3 2 1 1 1 1	1983.0 1102.0 1044.0 1894.0 1094.0 1447.0 1429.0 1979.0	1912.0 1794.0 1152.0 1948.0 1916.0 - -	1535.0 - 1148.0 1118.0 - - - - - - - -	
		0 1 2 3 4 5 6 7 8	(us) 361323.0 515261.0 39025.0 190900.0 343941.0 497624.0 20319.0 172999.0 325872.0	Tidth (us) 93.3 69.1 86.9 84.9 72.3 51.7 58.3 60.8 57.1 57.1	(mn.2) 18 18 18 18 18 18 18 18 18 18	Burst 3 3 2 3 3 2 1 1 1 1 1 1	1983.0 1102.0 1044.0 1894.0 1094.0 1447.0 1429.0 1979.0 1641.0	1912.0 1794.0 1152.0 1948.0 1916.0 - - -	1535.0 - 1148.0 1118.0 - - - - - - - - - - - - -	
		0 1 2 3 4 5 6 7 8 8 9 9	(u=) 361323.0 515261.0 39025.0 190900.0 343941.0 497624.0 20319.0 172999.0 325872.0 475841.0	Tidth (us) 93.3 69.1 66.9 84.9 72.3 51.7 58.3 60.8 57.1 88.9	(mn.2) 18 18 18 18 18 18 18 18 18 18	Barst Barst 3 2 3 2 1 1 1 3	1983.0 1102.0 1044.0 1894.0 1094.0 1447.0 1447.0 1429.0 1979.0 1641.0 1886.0	1912.0 1794.0 1152.0 1948.0 1916.0 - - - - 1964.0	1535.0 - 1148.0 1118.0 - - - - - - - - - 1489.0	
		0 1 2 3 4 5 6 7 8 8 9 9	(u=) 361323.0 515261.0 39025.0 190900.0 343941.0 497624.0 20319.0 172999.0 325872.0 475641.0 1489.0	Tidth (us) 93.3 69.1 66.9 64.9 72.3 51.7 58.3 60.8 57.1 88.9 72.0 72.0	(mrz) 18 18 18 18 18 18 18 18 18 18	Barst 3 2 3 2 1 1 1 2 2	1983.0 1102.0 1044.0 1094.0 1094.0 1447.0 1447.0 1429.0 1979.0 1641.0 1886.0 1909.0	1912.0 1794.0 1152.0 1948.0 1916.0 - - - - 1964.0 1297.0	1535.0 - 1148.0 1118.0 - - - - - - - 1489.0 -	
		0 1 2 3 4 5 6 7 8 8 9 10 11	(u=) 361323.0 515261.0 39025.0 19090.0 343941.0 497624.0 20319.0 172999.0 325872.0 475841.0 1489.0 153647.0	Tidth (us) 93.3 69.1 66.9 84.9 72.3 51.7 58.3 60.8 57.1 88.9 72.0 90.9	(mrz) 18 18 18 18 18 18 18 18 18 18	Barst 3 2 3 2 1 1 3 2 3 2 3 2 3 2 3 2 3 3 2 3 2 3	1983.0 1102.0 1044.0 1094.0 1094.0 1447.0 1447.0 1429.0 1979.0 1641.0 1886.0 1909.0 1261.0	1912.0 1794.0 1152.0 1948.0 1916.0 - - - - 1964.0 1297.0 1566.0	1535.0 - 1148.0 1118.0 - - - - - - 1489.0 - 1370.0	
		0 1 2 3 4 5 6 7 8 9 9 10 11 12	(u=) 361323.0 515261.0 39025.0 190900.0 343941.0 497624.0 20319.0 172999.0 325872.0 475841.0 1489.0 153647.0 307096.0	Tidth (us) 93.3 69.1 66.9 84.9 72.3 51.7 58.3 60.8 57.1 88.9 72.0 90.9 59.8 9	(mrz) 18 18 18 18 18 18 18 18 18 18	Barst 3 2 3 2 1 1 3 2 1 1 3 3 1 1 3 2 3 1 1 3 2 3 2 3 1	1983.0 1102.0 1044.0 1094.0 1094.0 1447.0 1447.0 1429.0 1641.0 1886.0 1909.0 1261.0 1552.0	1912.0 1794.0 1752.0 1948.0 1916.0 - - - - 1964.0 1297.0 1566.0 -	1535.0 - 1148.0 1118.0 - - - - - 1489.0 - 1370.0 -	
		0 1 2 3 4 5 6 7 8 9 9 10 11 11 12 13	(us) 361323.0 361323.0 515261.0 39025.0 190900.0 343941.0 497624.0 20319.0 172999.0 325872.0 475841.0 475841.0 113647.0 337096.0 458804.0	Vi dth (us) 93.3 69.1 68.9 72.3 51.7 58.3 60.8 57.1 88.9 72.0 90.9 59.8 70.0 70.0	(mHz) 18 18 18 18 18 18 18 18 18 18	Boarst Person 3 2 3 2 1 1 1 3 2 3 3 2 1 1 1 3 2 3 1 2	1983.0 1102.0 1044.0 1094.0 1447.0 1447.0 1429.0 1979.0 1641.0 1886.0 1909.0 1261.0 1552.0 1759.0	1912.0 1794.0 1152.0 1152.0 - 948.0 1916.0 - - 1964.0 1297.0 1566.0 - - 1291.0	1535.0 - 1148.0 1118.0 - - - - - 1489.0 - 1489.0 - - - - - - - - - - - - -	
		0 1 2 3 4 5 6 7 8 9 10 11 12 13 14	(us) 361323.0 361323.0 515261.0 39025.0 190900.0 343941.0 497624.0 20319.0 172999.0 325872.0 475841.0 1489.0 153647.0 307096.0 4858804.0 610798.0 610798.0	Tidth (us) 93.3 69.1 68.9 84.9 72.3 51.7 58.3 60.8 57.1 88.9 72.0 59.8 70.0 67.2	(mrz) 18 18 18 18 18 18 18 18 18 18	Boarst Person 3 2 3 2 1 1 1 3 2 3 1 3 2 3 3 2 3 2 3 2 3 2 2 3 1 2 2 2	1983.0 1983.0 1102.0 1044.0 1094.0 1429.0 1429.0 1429.0 1979.0 1641.0 1886.0 1909.0 1261.0 1255.0 1759.0 1655.0	1912.0 1794.0 1152.0 1948.0 1948.0 1948.0 - - 1964.0 1297.0 1566.0 - 1297.0 1566.0 - 1291.0 1881.0	1535.0 - 1148.0 1118.0 - - - - - 1489.0 - 1489.0 - 1370.0 - - - - - - - - - - - - -	
		0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	(us) 361323.0 361323.0 515261.0 39025.0 190900.0 343941.0 497624.0 20319.0 172999.0 325872.0 475841.0 1489.0 153647.0 30706.0 458804.0 610798.0 134759.0	¥idtk (us) 93.3 69.1 86.9 72.3 51.7 58.3 60.8 57.1 88.9 72.0 90.9 59.8 70.0 67.2 91.2	(mr.) 18 18 18 18 18 18 18 18 18 18	Boarst Person 3 2 3 2 1 1 3 2 1 1 3 2 1 1 3 2 1 3 2 3 3 2 3 2 3 2 2 2 2 3	1963.0 1102.0 1044.0 1894.0 1494.0 1429.0 1429.0 1429.0 1429.0 1641.0 1886.0 1909.0 1261.0 1552.0 1652.0 1759.0 1625.0 1382.0	1912. 0 1912. 0 1794. 0 1152. 0 1948. 0 1916. 0 - - - 1964. 0 1297. 0 1566. 0 - - 1291. 0 1881. 0 1832. 0	1535.0 - 1148.0 1118.0 - - - - - 1489.0 - 1370.0 - 1661.0	
		0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	(us) 361323.0 361323.0 515261.0 39090.0 39090.0 343941.0 497624.0 20319.0 172999.0 325872.0 475841.0 1489.0 153647.0 30096.0 458604.0 610798.0 134769.0 283306.0 288306.0	¥idtk (us) 93.3 69.1 86.9 84.9 72.3 51.7 58.3 60.8 57.1 88.9 72.0 90.9 59.8 70.0 67.2 91.2 56.5	(mr.) 18 18 18 18 18 18 18 18 18 18	Burst 3 2 3 2 1 1 3 2 1 1 3 2 1 2 3 2 3 2 3 2 3 2 3 2 3 2 3 1 2 3 3 1 2 2 3 1 2 3 3 1	1983.0 1983.0 1102.0 1044.0 1894.0 1447.0 1429.0 1447.0 1429.0 1447.0 1429.0 1979.0 1641.0 1886.0 1909.0 1261.0 1552.0 1552.0 1362.0 1483.0	1912. 0 1912. 0 1794. 0 1152. 0 1948. 0 1916. 0 - - - - 1964. 0 1297. 0 1566. 0 - - 1291. 0 1881. 0 1882. 0 -	1535.0 - 1148.0 1118.0 - - - - - - - - - - - - - - 1489.0 - 1370.0 - - - - - - - - - - - - - - - - - 1661.0	
		0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	(u=) 361323.0 515261.0 39025.0 190900.0 343941.0 497624.0 20319.0 172999.0 325872.0 475841.0 1889.0 153647.0 307096.0 458804.0 610798.0 134759.0 288306.0 441296.0	*idth (us) 93.3 69.1 86.9 84.9 72.3 51.7 58.3 60.8 57.1 88.9 72.0 90.9 59.8 70.0 67.2 91.2 56.5 51.2	(mr.) 18 18 18 18 18 18 18 18 18 18	Burst 3 2 3 2 1 1 3 2 1 1 3 2 1 2 3 2 3 2 3 2 3 2 3 1 2 3 1 1 1 1	1983.0 1102.0 1044.0 1894.0 1894.0 1447.0 1429.0 1979.0 1641.0 1886.0 1909.0 1261.0 1552.0 1759.0 1625.0 1382.0 1483.0 1237.0	1912.0 1912.0 1794.0 1152.0 1948.0 1916.0 - - - - - 1964.0 1297.0 1566.0 - 1297.0 1566.0 - 1291.0 1881.0 1832.0 -	1535.0 - 1148.0 1118.0 - - - - - 1489.0 - 1370.0 - - - 1661.0 - -	

Radar Type 5 - Radar Waveform_#15

)ownload	15	Type 5	14	0.8571429	12.8000000	5.502300000	1	1	
		Burst ID	Burst Offset (us)	Pulse Vidth (us)	Chirp Tidth (Mtz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
-		0	158286.0	76.9	12	2	1110.0	1140.0	-
		1	366024.0	50.2	12	1	1316.0	2	
		2	573452.0	62.9	12	1	1520: 0	-	-
		3	780619.0	64. 7	12	1	1902.0	2	2
		4	132455.0	83.8	12	3	1410.0	1097.0	1621.0
		5	340207.0	65.4	12	1	1944.0	22	2
		6	548208.0	53.2	12	1	1024:0	÷.	-
		7	755333.0	51.7	12	1	1603.0	<u>22</u>	<u></u>
		8	107117.0	78.7	12	2	1804: 0	1168.0	-
		9	314500.0	72.4	12	2	1030.0	1343.0	2
		10	522447:0	53.8	12	1	1327.0	-	-
		11	728517.0	73.6	12	2	1524.0	1553.0	2
		12	81611.0	66.7	12	2	1722.0	1122.0	-
		13	288948.0	82.5	12	2	1404.0	1019.0	2

Radar Type 5 - Radar Waveform_#16



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Download	16	Type 5	20	0.6000000	12.8000000	5.505500000			
		Burst ID	Burst Offset (us)	Pulse Vidth (us)	Chirp Vidth (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
		0	345766.0	87.6	20	3	1565.0	1055.0	1840.0
		1	490019.0	85.2	20	3	1735.0	1541.0	1408.0
		2	39073.0	84.8	20	3	1534.0	1889.0	1463.0
		3	183923.0	77.9	20	2	1749.0	1460.0	20
	j.	4	328777.0	76.5	20	2	1518.0	1485.0	-
		5	474728.0	60.9	20	1	1540.0	20	27
		6	21394.0	83.0	20	2	1080.0	1010.0	-
		7	165992.0	80.4	20	2	1824.0	1752.0	20
	2	8	310973.0	67.5	20	2	1764.0	1181.0	7
		9	456884.0	62.1	20	1	1495.0	20	
		10	3515.0	86.4	20	3	1773.0	1966.0	1263.0
		11	147928.0	84.3	20	3	1593.0	1188.0	1788.0
	2	12	293225.0	76.9	20	2	1226.0	1537.0	
		13	436922.0	95.8	20	3	1192.0	1298.0	1844.0
		14	584015.0	55.2	20	1	1644.0		
		15	130832.0	59.0	20	1	1402.0		-1
		16	274684.0	94.5	20	3	1296.0	1700.0	1283.0
		17	418579.0	91.9	20	3	1970.0	1978.0	1165.0
		18	563464.0	85.2	20	3	1732.0	1551.0	1189.0
		19	112787.0	69.5	20	2	1038.0	1224.0	20

Radar Type 5 - Radar Waveform_#17

Download	17	Type 5	12	1.0000000	12.8000000	5.501500000			1
		Burst ID	Burst Offset (us)	Pulse Tidth (us)	Chirp Vidth (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
		0	429224.0	86.4	10	3	1259.0	1918.0	1455.0
		1	670241.0	92.2	10	3	1598.0	1719.0	1895.0
		2	912880.0	80.4	10	2	1816.0	1899.0	-
		3	158603.0	54.3	10	1	1335.0		2
		4	400824.0	53.1	10	1	1303.0	-	-
		5	641915.0	69.4	10	2	1503.0	1546.0	2
		6	883823.0	69.1	10	2	1279.0	1639.0	-
		7	128373.0	100.0	10	3	1375.0	1438.0	1595.0
		8	370379.0	79.6	10	2	1239.0	1705.0	-
		9	611194.0	88.4	10	3	1374.0	1579.0	1623.0
		10	855665.0	53.3	10	1	1016.0	-	-
		11	98897.0	65.3	10	1	1709.0	2	2
	-				-				

Radar Type 5 - Radar Waveform_#18

I)ownload	18	Type 5	14	0.8571429	12.8000000	5.502300000			
			Burst ID	Burst Offset (us)	Pulse Vidth (us)	Chirp Vidth (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
			0	292143.0	55.3	12	1	1920.0	73	7
ļ			1	499633.0	58.3	12	1	1797.0		-1
			2	706377.0	72.3	12	2	1610.0	1039.0	-
			3	58989.0	84.8	12	3	1131.0	1761.0	1721.0
			4	266161.0	82.5	12	2	1875.0	1431.0	7
			5	474469.0	63.3	12	1	1095.0		
			6	680544.0	80.0	12	2	1119.0	1913.0	73
			7	33519.0	90.3	12	3	1660.0	1853.0	1123.0
			8	240319.0	91.1	12	3	1539.0	1783.0	1172.0
			9	447400.0	96.6	12	3	1525.0	1036.0	1385.0
			10	654516.0	82. 7	12	2	1710.0	1990.0	7.
			11	8083.0	50. 7	12	1	1234.0		
			12	215435.0	78.4	12	2	1047.0	1109.0	75
			13	421325.0	99.5	12	3	1299.0	1965.0	1869.0

Radar Type 5 - Radar Waveform_#19



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A R W				Burst ID	Burst Offset (us)	Pulse Vidth (us)	Chirp Tidth (Mz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)	1.17.1
LUNTE	s)			0	733725.0	88.6	10	3	1501.0	1067.0	1927.0	200
180 rcs				1	977882.0	57.4	10	1	1723.0	8	-	100
and the second s				2	221197.0	96.6	10	3	1086.0	1658.0	1324.0	
				3	462915.0	69. 7	10	2	1751.0	1945.0	-	
				4	705071.0	77.9	10	2	1642.0	1317.0	≂	
	_			5	947923.0	62.0	10	1	1866.0	-	-	
				6	191373.0	88.4	10	3	1997.0	1077.0	1366.0	
				7	432561.0	97.3	10	3	1790.0	1896.0	1367.0	
				8	674004.0	96.2	10	3	1391.0	1787.0	1672.0	
				9	915842.0	95.4	10	3	1020.0	1892.0	1414.0	
				10	162176.0	54.8	10	1	1084.0			
				11	403553.0	80.4	10	2	1850.0	1436.0	-	
		Download	20	Tune 5	Rac	dar Type 5	- Radar W	/aveform_	#20			
		Donicodd		Burst ID	Burst Offset (ns)	Pulse Vidth (us)	Chirp Vidth (WHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)	Ci) da
	1			0	483470.0	74.7	15	2	1619.0	1611.0	-	
X	81-			1	666072.0	57.1	15	1	1560.0	-	-	
1	-			2	98810.0	91.9	15	3	1392.0	1475.0	1276.0	
				3	279914.0	83.1	15	2	1809.0	1772.0	-	
				4	462536.0	50.7	15	1	1003.0	-	-	
	-			5	642324.0	79.2	15	2	1574.0	1600.0	-	
	1			6	76831.0	58.7	15	1	1186.0	-	-	
				7	257785.0	71.0	15	2	1521.0	1567.0	-	
				8	438554.0	79.0	15	2	1777.0	1960.0	-	
				9	620397.0	68.5	15	2	1284.0	1428.0	-	
				10	54310.0	73.5	15	2	1904.0	1352.0	-	
				11	235506.0	70.5	15	2	1864.0	1115.0	-	
				12	417036.0	76.6	15	2	1045.0	1300.0	-	
	-			13	597974.0	81.2	15	2	1160.0	1675.0	-	
				14	32086.0	61.8	15	1	1277.0	-	-	
. In	1			15	212751.0	94.9	15	3	1450.0	1206.0	1860.0	
IT IF I		alav	-		F. F.R. 120	a Lav		-	27 241 922 "	Lav	1	SFF -
LUCIO					Rad	dar Type 5	- Radar W	aveform	#21			
Pres.		Download	21	Type 5	12	1.0000000	12.8000000	5,498900000				1 V C.S.)
				P+ TD	Burst	Pulse	Chirp	Number of	PPT_1 ()	PPT_2 ()		

		Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Vidth (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
		0	526149.0	78.5	9	2	1653.0	1698.0	2
I		1	767135.0	89.8	9	3	1174.0	1962.0	1167.0
I		2	12955.0	59.4	9	1	1982.0	-	
	8	3	254612.0	79.6	9	2	1633.0	1890.0	-
		4	496588.0	76.0	9	2	1112.0	1811.0	
		5	739728.0	53.6	9	1	1144.0	-	- j
		6	980872.0	80.9	9	2	1220.0	1053.0	-
		7	225249.0	61.6	9	1	1724.0	-	-
I		8	467279.0	53.4	9	1	1901.0	5	1
		9	709720.0	59.9	9	1	1379.0	-	-
		10	951847.0	60.4	9	1	1453.0	5	-
1		11	194839.0	91.4	9	3	1768.0	1726.0	1227.0



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