

DFS TEST REPORT

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MODEL NO.: WAP-7420

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF130715C29-3	Original release	Oct. 04, 2013



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1. CERTIFICATION

PRODUCT: Video Bridge

MODEL: WAP-7420

BRAND: TATUNG TECHNOLOGY INC

APPLICANT: TATUNG TECHNOLOGY INC

TESTED: Sep. 24, 2013

TEST SAMPLE: Production Unit

STANDARDS: FCC Part 15, Subpart E (Section 15.407)

FCC 06-96

The above equipment (model: WAP-7420) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY :  , **DATE** : Oct. 04, 2013
Pettie Chen / Senior Specialist

APPROVED BY :  , **DATE** : Oct. 04, 2013
Ken Liu / Senior Manager

2. EUT INFORMATION

2.1 OPERATING FREQUENCY BANDS AND MODE OF EUT

TABLE 1: OPERATING FREQUENCY BANDS AND MODE OF EUT

OPERATIONAL MODE	OPERATING FREQUENCY RANGE	
	5250~5350MHz	5470~5725MHz
Master	✓	✓

The EUT doesn't operate in 5600 ~ 5650MHz via software controls.

2.2 EUT SOFTWARE AND FIRMWARE VERSION

TABLE 2: THE EUT SOFTWARE/FIRMWARE VERSION

NO.	PRODUCT	MODEL NO.	SOFTWARE/FIRMWARE VERSION
1	Video Bridge	WAP-7420	V1.0.0.3_TestAutoCh

2.3 DESCRIPTION OF AVAILABLE ANTENNAS TO THE EUT

TABLE 3: ANTENNA LIST

ANT NO.	ANTENNA TYPE	OPERATION FREQUENCY RANGE (MHz)	MAX. GAIN (dBi)
1.	PCB	5250-5350	2.99
1.	PCB	5470-5725	3.88

2.4 EUT MAXIMUM CONDUCTED POWER

TABLE 4: THE MEASURED CONDUCTED OUTPUT POWER

Master Mode

802.11n (40MHz)

ANT NO.	FREQUENCY BAND (MHz)	MAX. POWER	
		OUTPUT POWER(dBm)	OUTPUT POWER(mW)
1	5250~5350	21.52	141.906
1	5470~5725	21.93	155.955

Client Mode

802.11n (40MHz)

ANT NO.	FREQUENCY BAND (MHz)	MAX. POWER	
		OUTPUT POWER(dBm)	OUTPUT POWER(mW)
1	5250~5350	21.52	141.906
1	5470~5725	21.93	155.955

2.5 EUT MAXIMUM E.I.R.P. POWER

TABLE 5: THE E.I.R.P OUTPUT POWER LIST

Master Mode

802.11n (40MHz)

ANT NO.	FREQUENCY BAND (MHz)	MAX. POWER	
		OUTPUT POWER(dBm)	OUTPUT POWER(mW)
1	5250~5350	24.51	282.488
1	5470~5725	25.81	381.066

Client Mode

802.11n (40MHz)

ANT NO.	FREQUENCY BAND (MHz)	MAX. POWER	
		OUTPUT POWER(dBm)	OUTPUT POWER(mW)
1	5250~5350	24.51	282.488
1	5470~5725	25.81	381.066

3. U-NII DFS RULE REQUIREMENTS

3.1 WORKING MODES AND REQUIRED TEST ITEMS

The manufacturer shall state whether the UUT is capable of operating as a Master and/or a Client. If the UUT is capable of operating in more than one operating mode then each operating mode shall be tested separately. See tables 1 and 2 for the applicability of DFS requirements for each of the operational modes.

TABLE 6: APPLICABILITY OF DFS REQUIREMENTS PRIOR TO USE A CHANNEL

REQUIREMENT	OPERATIONAL MODE		
	MASTER	CLIENT WITHOUT RADAR DETECTION	CLIENT WITH RADAR DETECTION
Non-Occupancy Period	✓	Not required	✓
DFS Detection Threshold	✓	Not required	✓
Channel Availability Check Time	✓	Not required	Not required
Uniform Spreading	✓	Not required	Not required
U-NII Detection Bandwidth	✓	Not required	✓

TABLE 7: APPLICABILITY OF DFS REQUIREMENTS DURING NORMAL OPERATION

REQUIREMENT	OPERATIONAL MODE		
	MASTER	CLIENT WITHOUT RADAR DETECTION	CLIENT WITH RADAR DETECTION
DFS Detection Threshold	✓	Not required	✓
Channel Closing Transmission Time	✓	✓	✓
Channel Move Time	✓	✓	✓
U-NII Detection Bandwidth	✓	Not required	✓

3.2 TEST LIMITS AND RADAR SIGNAL PARAMETERS

DETECTION THRESHOLD VALUES

TABLE 8: DFS DETECTION THRESHOLDS FOR MASTER DEVICES AND CLIENT DEVICES WITH RADAR DETECTION

MAXIMUM TRANSMIT POWER	VALUE (SEE Note 1 and 2)
≥ 200 milliwatt	-64 dBm
< 200 milliwatt	-62 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.

TABLE 9: 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 80% of the UNII 99% transmission power bandwidth. See Note 3.

Note 1: The instant that the Channel Move Time and the Channel Closing Transmission Time begins is as follows:

- For the Short Pulse Radar Test Signals this instant is the end of the Burst.
- For the Frequency Hopping radar Test Signal, this instant is the end of the last radar Burst generated.
- For the Long Pulse Radar Test Signal this instant is the end of the 12 second period defining the Radar Waveform.

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 1 is used and for each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

PARAMETERS OF DFS TEST SIGNALS

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.

TABLE 10: SHORT PULSE RADAR TEST WAVEFORMS

RADAR TYPE	PULSE WIDTH (μsec)	PRI (μsec)	NUMBER OF PULSES	MINIMUM PERCENTAGE OF SUCCESSFUL DETECTION	MINIMUM NUMBER OF TRIALS
1	1	1428	18	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
Aggregate (Radar Types 1-4)				80%	120

TABLE 11: 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

TABLE 12: 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 NUMBER OF TRIALS
6	1	333	9	0.333	300	70%	30

4. TEST & SUPPORT EQUIPMENT LIST

4.1 TEST INSTRUMENTS

TABLE 1: TEST INSTRUMENTS LIST

DESCRIPTION & MANUFACTURER	MODEL NO.	BRAND	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
R&S Spectrum analyzer	FSP40	R&S	2013/01/28	2014/01/27
Signal generator	8645A	Agilent	2013/06/25	2014/06/24
Oscilloscope	TDS 5104	Tektronix	2013/03/08	2014/03/07

4.2 DESCRIPTION OF SUPPORT UNITS

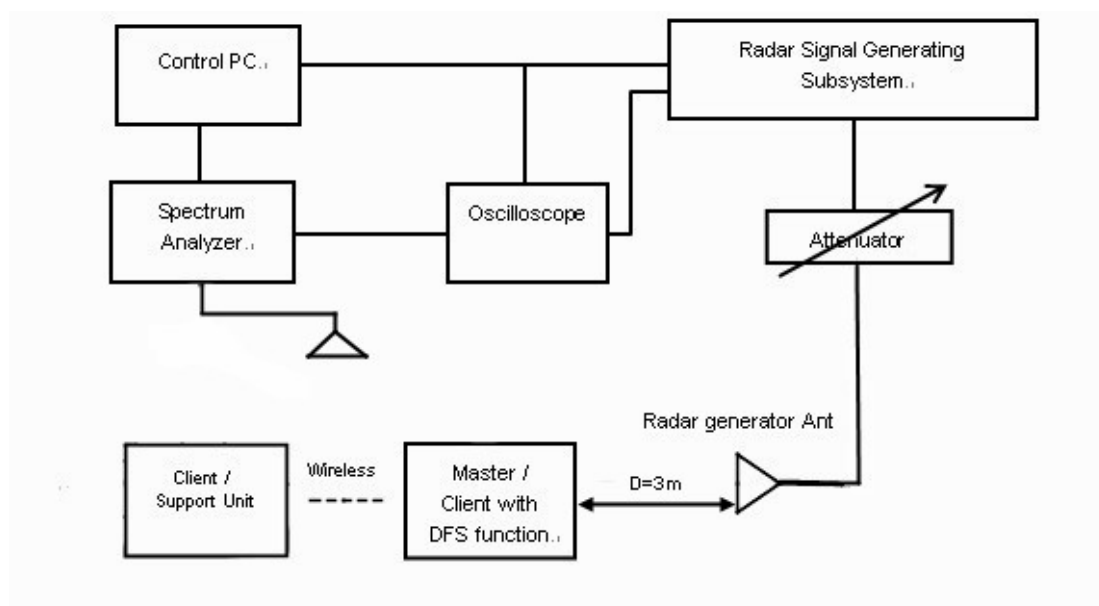
This EUT was functioned as a Master & Slave device during the DFS test.

5. TEST PROCEDURE

5.1 ADT DFS MEASUREMENT SYSTEM

A complete ADT DFS Measurement System consists of two subsystems: (1) the Radar Signal Generating Subsystem and (2) the Traffic Monitoring Subsystem. The control PC is necessary for generating the Radar waveforms in Table 10, 11 and 12. The traffic monitoring subsystem is specified to the type of unit under test (UUT).

RADIATED SETUP CONFIGURATION OF ADT DFS MEASUREMENT SYSTEM



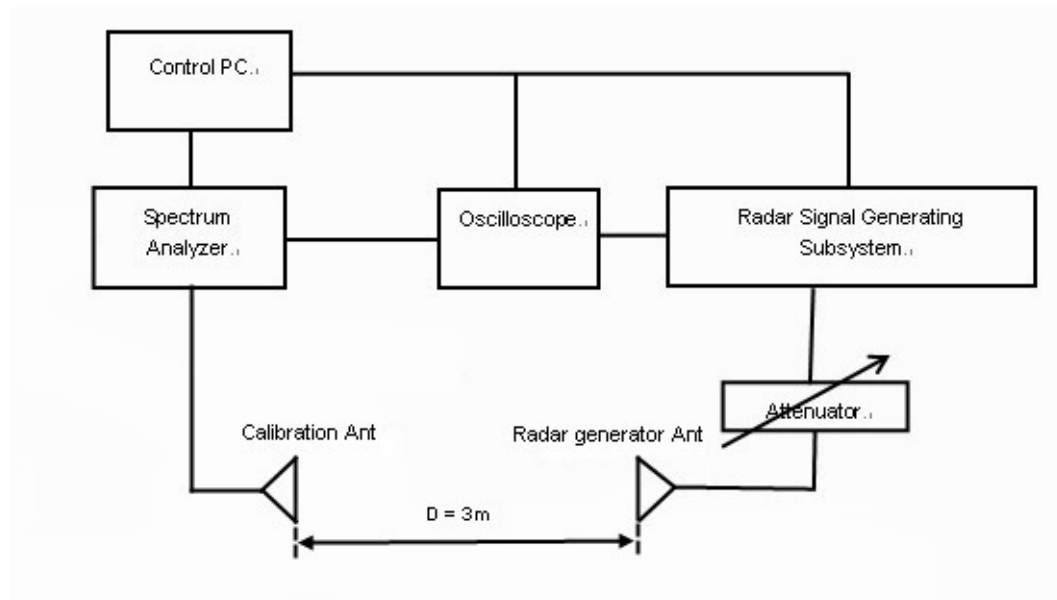
The test transmission will always be from the Master Device to the Client Device. While the Client device is set up to associate with the Master device and play the MPEG file (6 $\frac{1}{2}$ Magic Hours) from Master device, the designated MPEG test file and instructions are located at:

<http://ntiacsd.ntia.doc.gov/dfs/>.

5.2 CALIBRATION OF DFS DETECTION THRESHOLD LEVEL

The measured channel is 5510MHz. The radar signal was the same as transmitted channels, and injected into the antenna of AP (master) or Client Device with Radar Detection, measured the channel closing transmission time and channel move time. The calibrated detection threshold level is set to -64dBm. The tested level is lower than required level hence it provides margin to the limit.

Radiated setup configuration of Calibration of DFS Detection Threshold Level

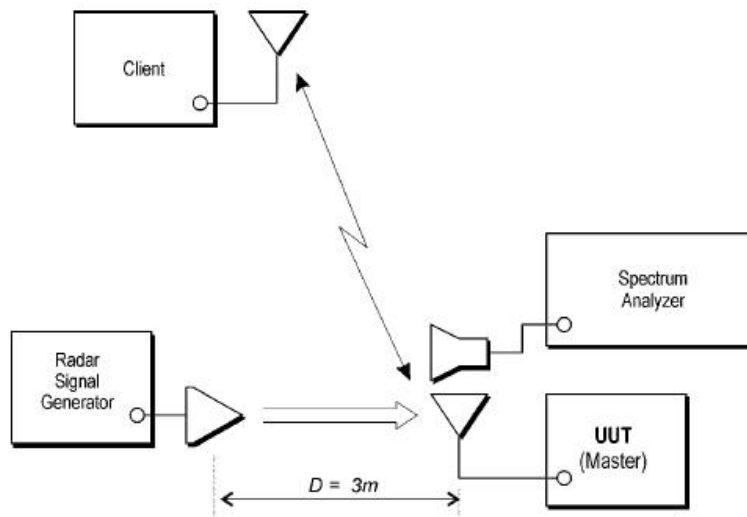


5.3 DEVIATION FROM TEST STANDARD

No deviation.

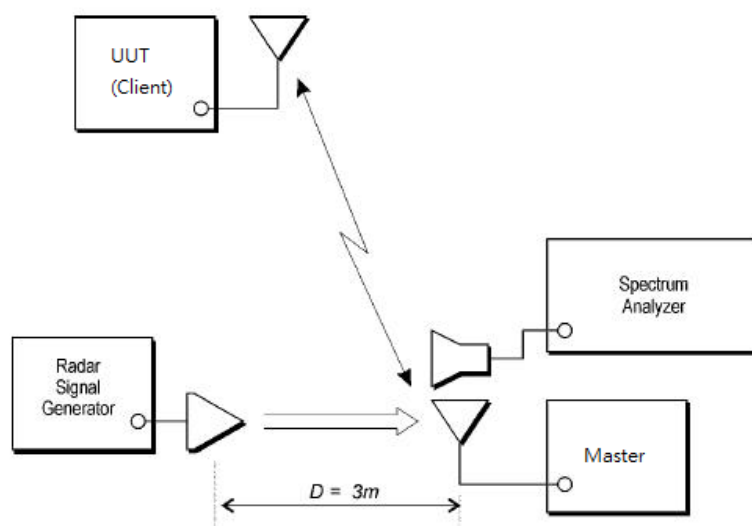
5.4 RADIATED TEST SETUP CONFIGURATION

5.4.1 MASTER MODE



The EUT is a U-NII Device operating in Master mode. The radar test signals are injected into the Master Device.

5.4.2 CLIENT MODE



The UUT is a U-NII Device operating in Client mode without radar detection. The radar test signals are injected into the Master Device.

6. TEST RESULTS

6.1 SUMMARY OF TEST RESULTS

6.1.1 MASTER MODE

CLAUSE	TEST PARAMETER	REMARKS	PASS/FAIL
15.407	DFS Detection Threshold	Applicable	Pass
15.407	U-NII Detection Bandwidth	Applicable	Pass
15.407	Channel Availability Check Time	Applicable	Pass
15.407	Channel Move Time	Applicable	Pass
15.407	Channel Closing Transmission Time	Applicable	Pass
15.407	Non- Occupancy Period	Applicable	Pass
15.407	Uniform Spreading	Applicable	Pass

6.1.2 SLAVE WITHOUT RADAR DETECTION MODE MASTER MODE

CLAUSE	TEST PARAMETER	REMARKS	PASS/FAIL
15.407	DFS Detection Threshold	Not Applicable	NA
15.407	Channel Availability Check Time	Not Applicable	NA
15.407	Channel Move Time	Applicable	Pass
15.407	Channel Closing Transmission Time	Applicable	Pass
15.407	Non- Occupancy Period	Applicable	Pass
15.407	Uniform Spreading	Not Applicable	NA
15.407	U-NII Detection Bandwidth	Not Applicable	NA
15.407	Non-associated test	Applicable	Pass
15.407	Non-Co-Channel test	Applicable	Pass

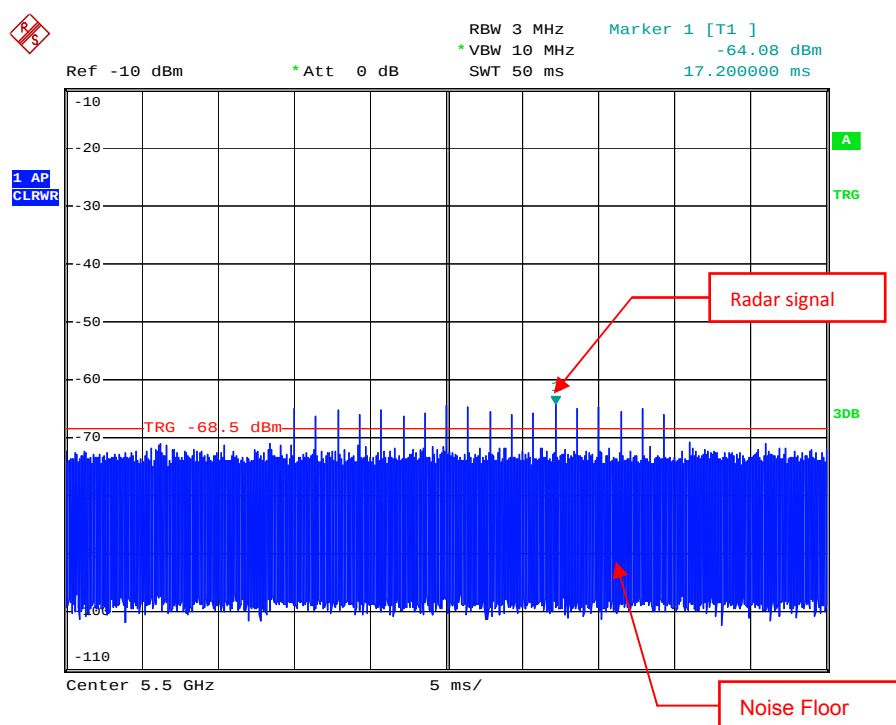
6.2 TEST RESULTS

6.2.1 TEST MODE: DEVICE OPERATING IN MASTER MODE

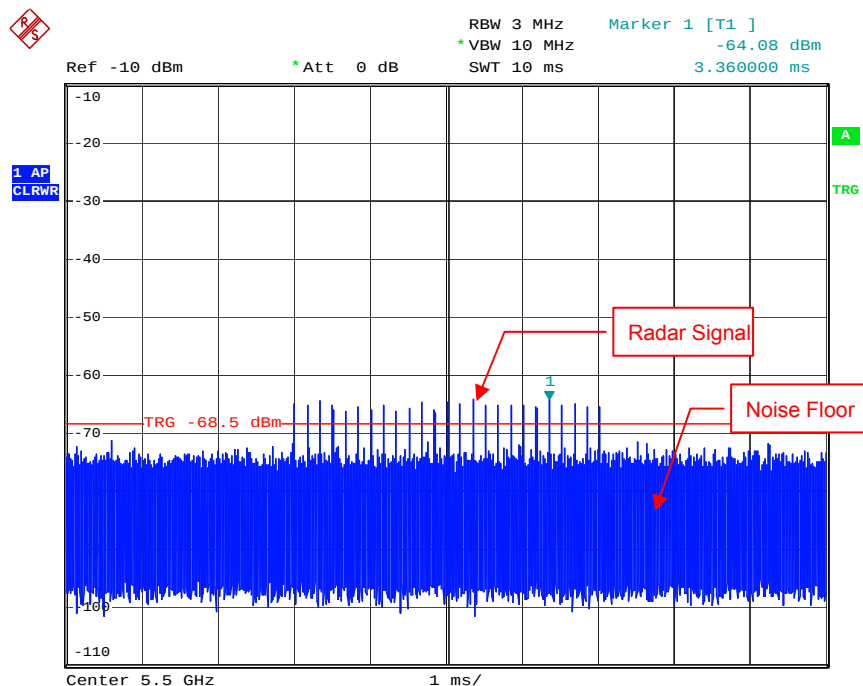
Master with injection at the Master. (Radar Test Waveforms are injected into the Master.

DFS DETECTION THRESHOLD

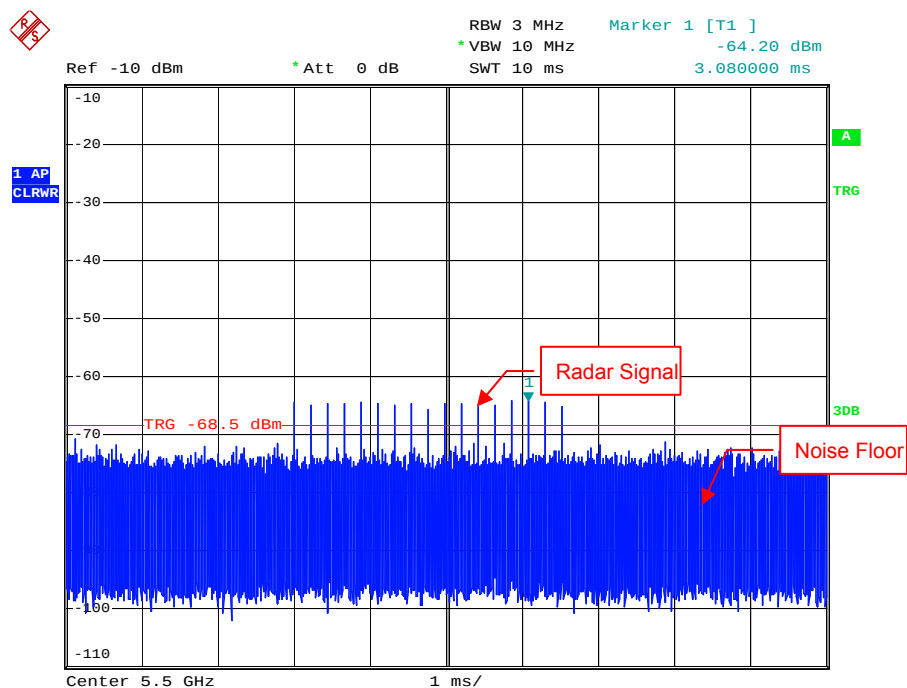
For a detection threshold level of -64dBm, the required signal strength at EUT antenna location is -64 dBm. The tested level is lower than required level hence it provides margin to the limit.



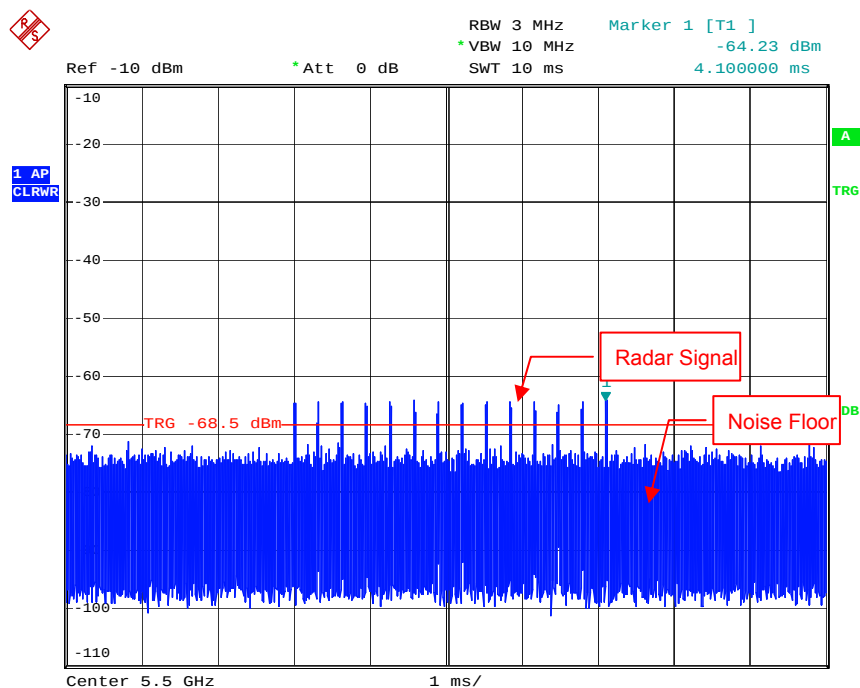
Radar Signal 1



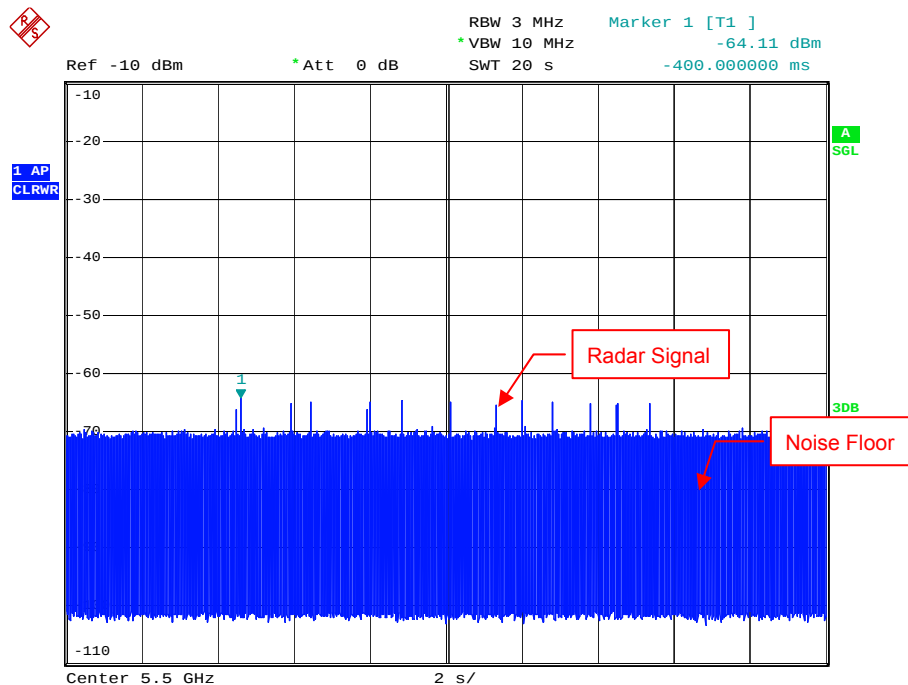
Radar Signal 2



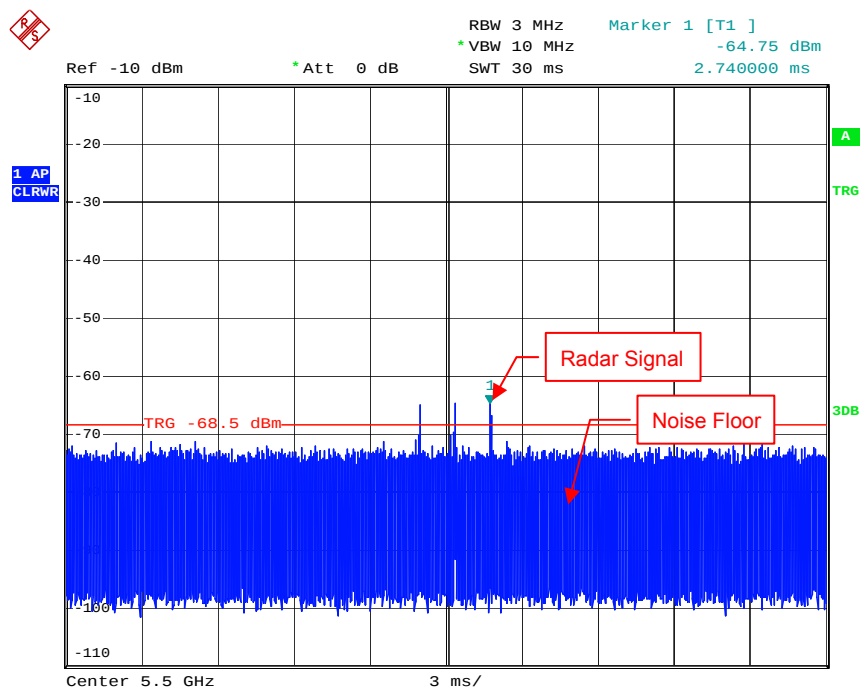
Radar Signal 3



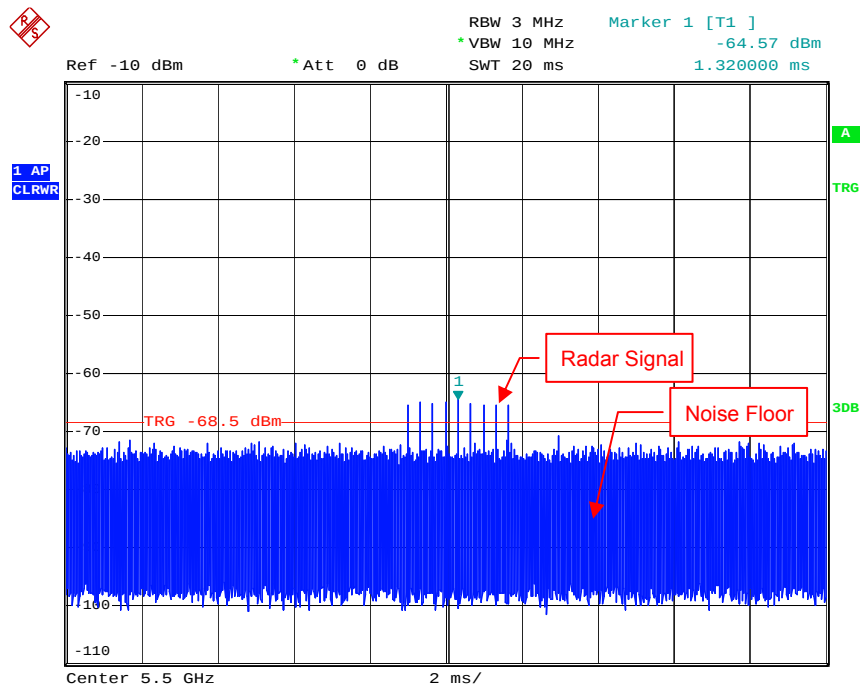
Radar Signal 4



Radar Signal 5



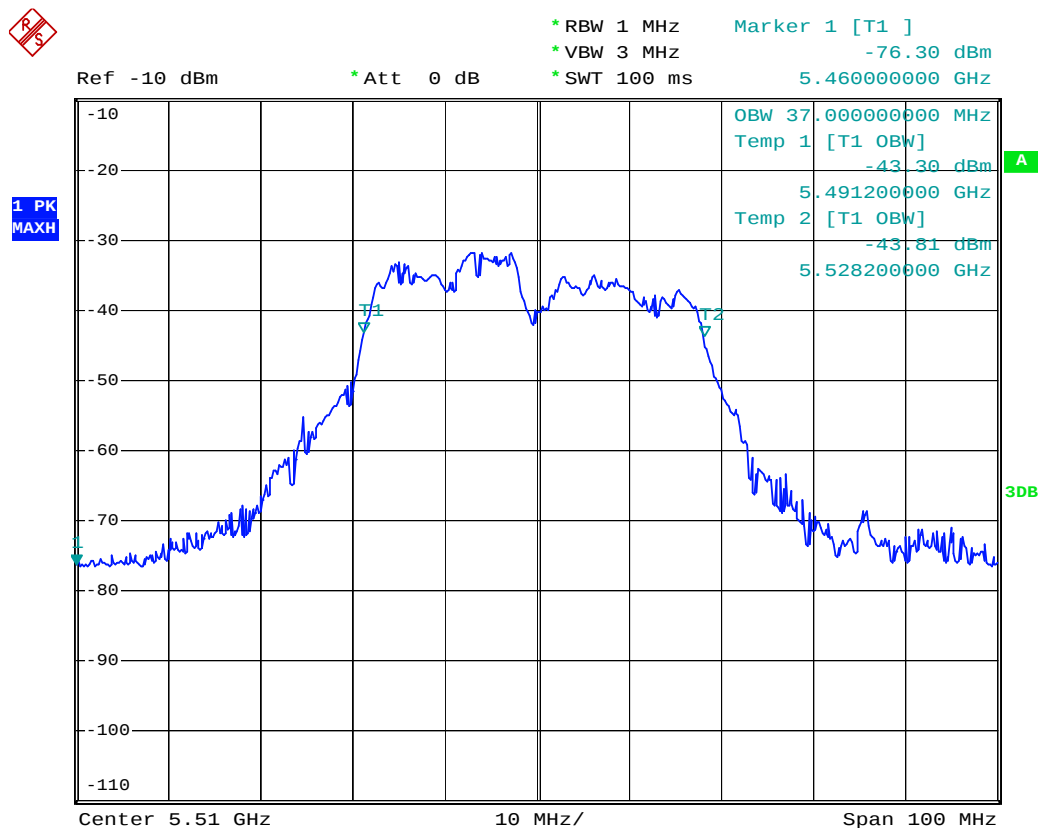
Single Burst of Radar Signal 5



Radar Signal 6

6.2.2 U-NII DETECTION BANDWIDTH

IEEE 802.11n 40MHz



U-NII 99% Channel bandwidth

Detection Bandwidth Test - IEEE 802.11N 40MHz

EUT Frequency: 5510MHz

EUT 99% Power bandwidth: 37MHz

Detection bandwidth limit (80% of EUT 99% Power bandwidth): 29.6MHz

Detection bandwidth (5526(FH) – 5494(FL)) : 32MHz

Test Result : PASS

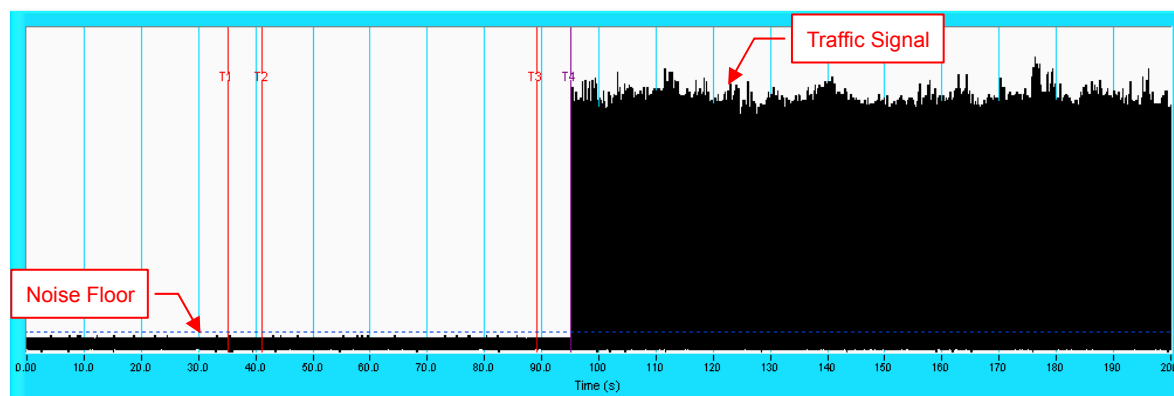
Radar Frequency (MHz)	Trial Number / Detection										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5493	N	N	N	N	N	N	N	N	N	N	0
5494(FL)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5495	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5496	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5497	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5498	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5499	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5500	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5501	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5502	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5503	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5504	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5505	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5506	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5507	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5508	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5509	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5510	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5511	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5512	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5513	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5514	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5515	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5516	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5517	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5518	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5519	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5520	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5521	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5522	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5523	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5524	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5525	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5526(FH)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5527	N	N	N	N	N	N	N	N	N	N	0

6.2.3 CHANNEL AVAILABILITY CHECK TIME

If the EUT successfully detected the radar burst, it should be observed as the EUT has no transmissions occurred until the EUT starts transmitting on another channel.

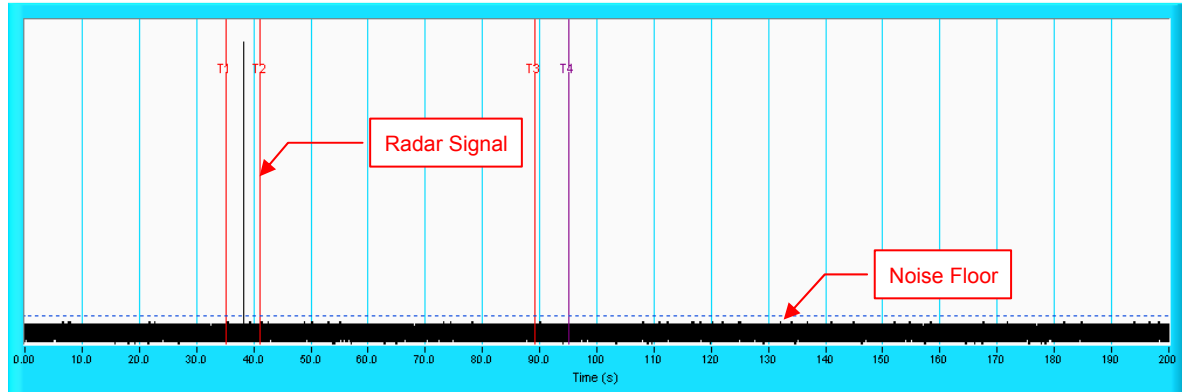
Timing of Radar Signal	Observation	
	EUT	Spectrum Analyzer
Within 1 to 6 second	Detected	No transmissions
Within 54 to 60 second	Detected	No transmissions

Initial Channel Availability Check Time



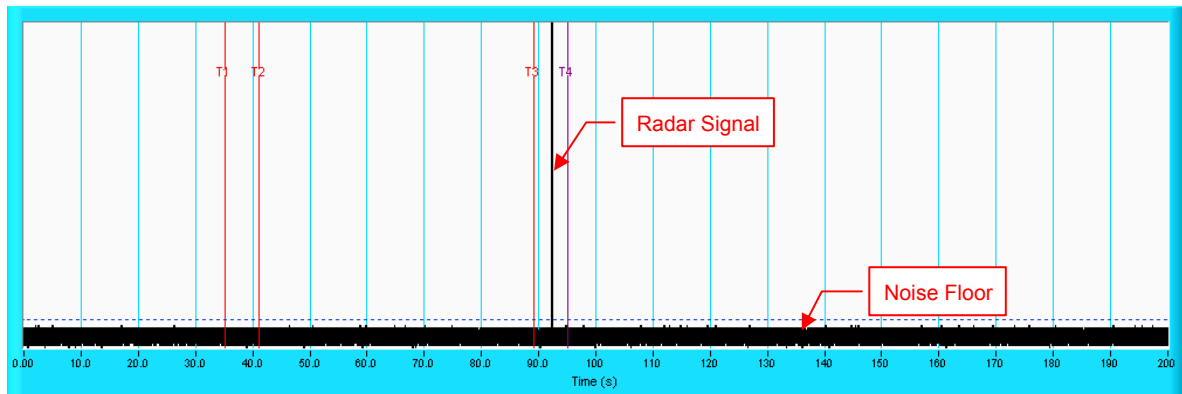
NOTE: T1 denotes the end of power-up time period is 35.2th second. T4 denotes the end of Channel Availability Check time is 95.2th second. Channel Availability Check time is equal to (T4 – T1) 60 seconds.

Radar Burst at the Beginning of the Channel Availability Check Time



NOTE: T1 denotes the end of power up time period is 35.2th second. T2 denotes 41.2th second, the radar burst was commenced within a 6 second window starting from the end of power-up sequence. T4 denotes the 95.2th second.

Radar Burst at the End of the Channel Availability Check Time

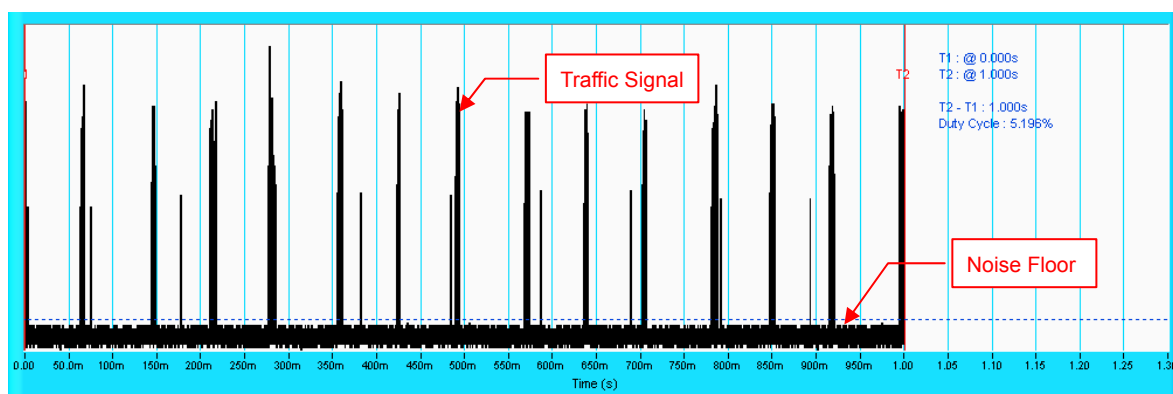


NOTE: T1 denotes the end of power up time period is 35.2th second. T3 denotes 89.2th second and radar burst was commenced within 54th second to 60th second window starting from the end of power-up sequence. T4 denotes the 95.2th second.

6.2.4 CHANNEL CLOSING TRANSMISSION AND CHANNEL MOVE TIME

Wireless Traffic Loading

IEEE 802.11n 40MHz



IEEE 802.11n 40MHz

Table 1: Short Pulse Radar Test Waveforms.

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Number of Trials(Times)	Percentage of Successful Detection (%)
1	1	1428	18	30	100
2	1-5	150-230	23-29	30	100
3	6-10	200-500	16-18	30	100
4	11-20	200-500	12-16	30	90
Aggregate (Radar Types 1-4)				120	97.5

Table 2: Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Number of Trials(Times)	Percentage of Successful Detection (%)
5	50-100	5-20	1000-2000	1-3	8-20	30	86.7

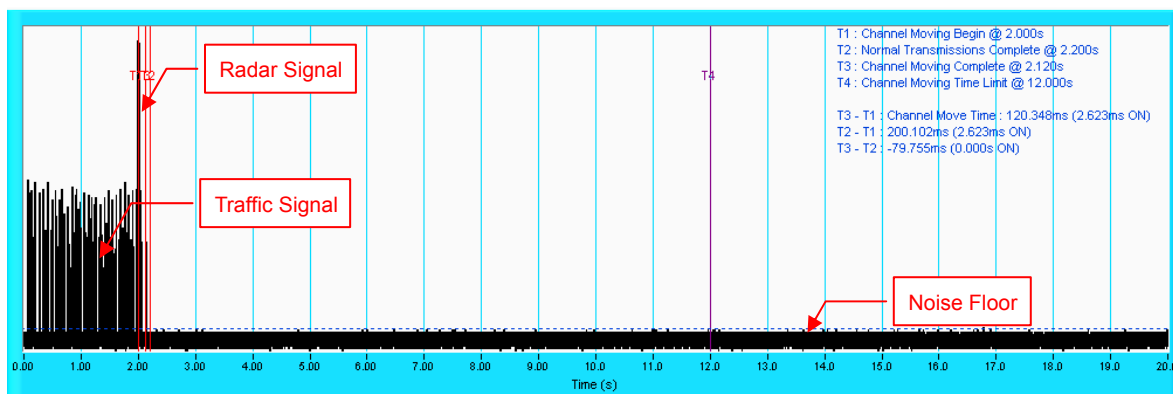
Table 3: Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Number of Trials(Times)	Percentage of Successful Detection (%)
6	1	333	9	0.333	300	30	96.7

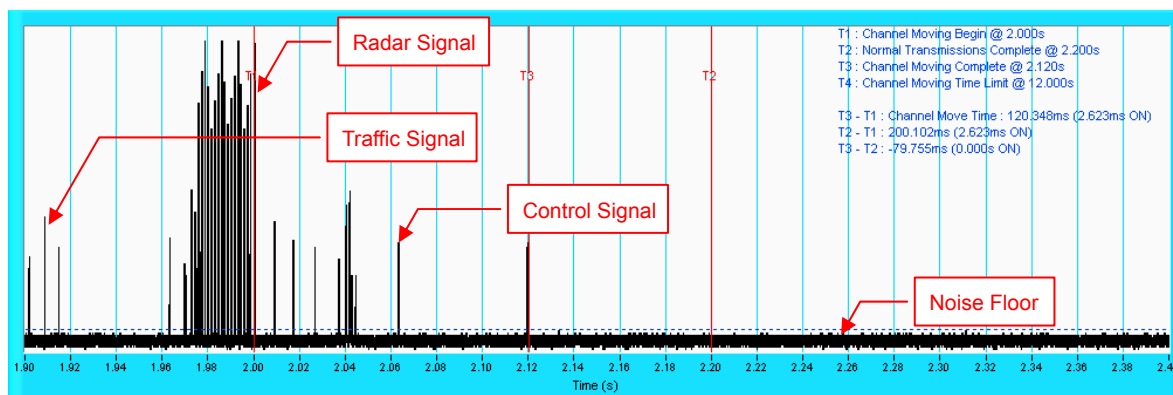
The Detailed Radar pattern and Statistical Performance showed in Annex A.

Radar signal 1

IEEE 802.11n 40MHz



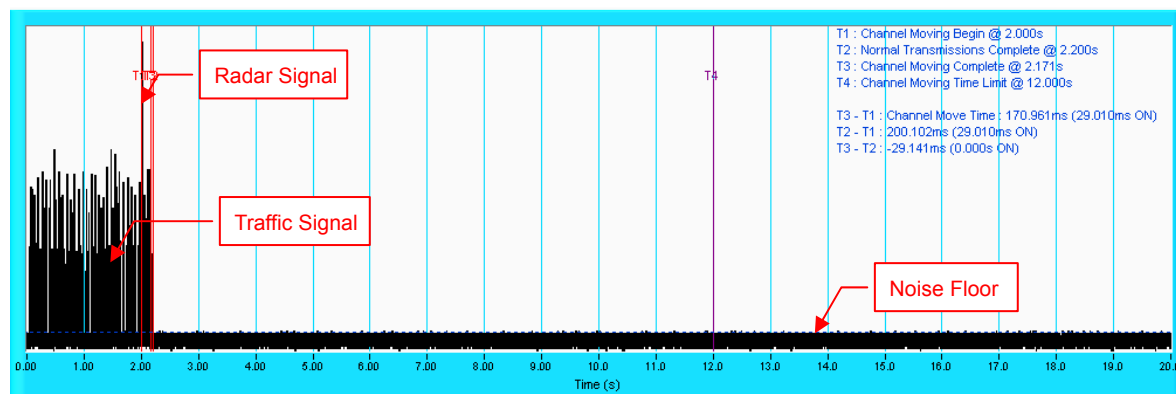
NOTE: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.



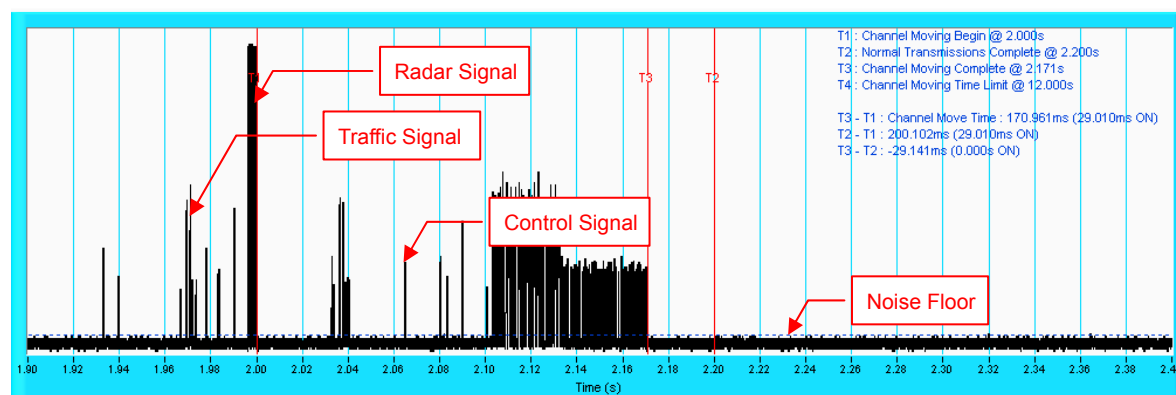
NOTE: Room-in of the first 500ms after radar signal applied.

Radar signal 2

IEEE 802.11n 40MHz



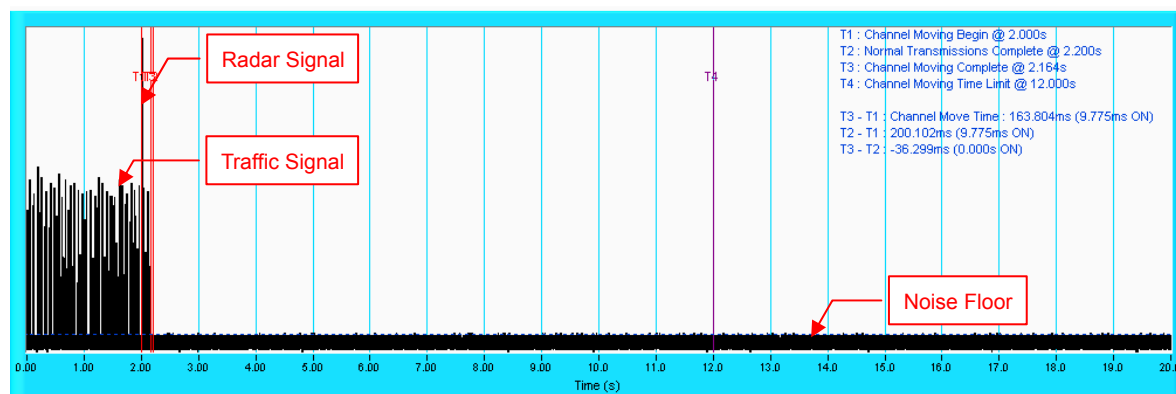
NOTE: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.



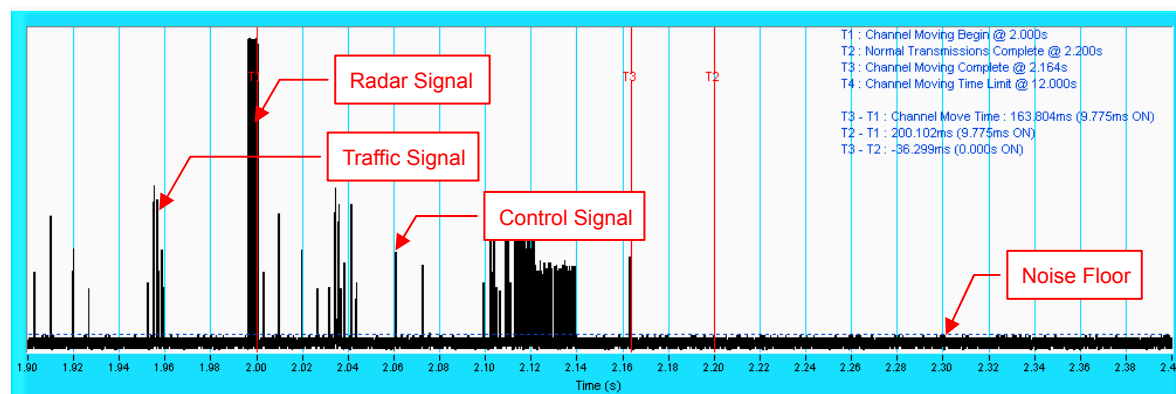
NOTE: Room-in of the first 500ms after radar signal applied.

Radar signal 3

IEEE 802.11N 40MHz



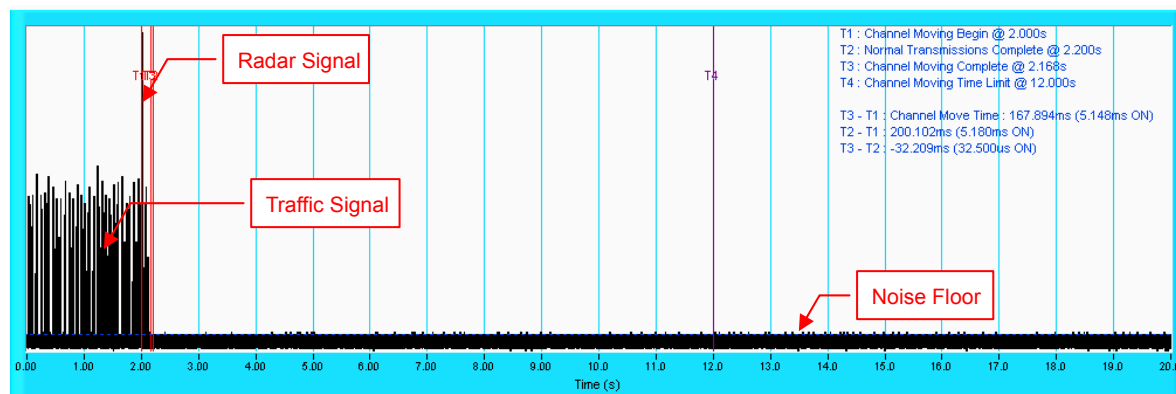
NOTE: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.



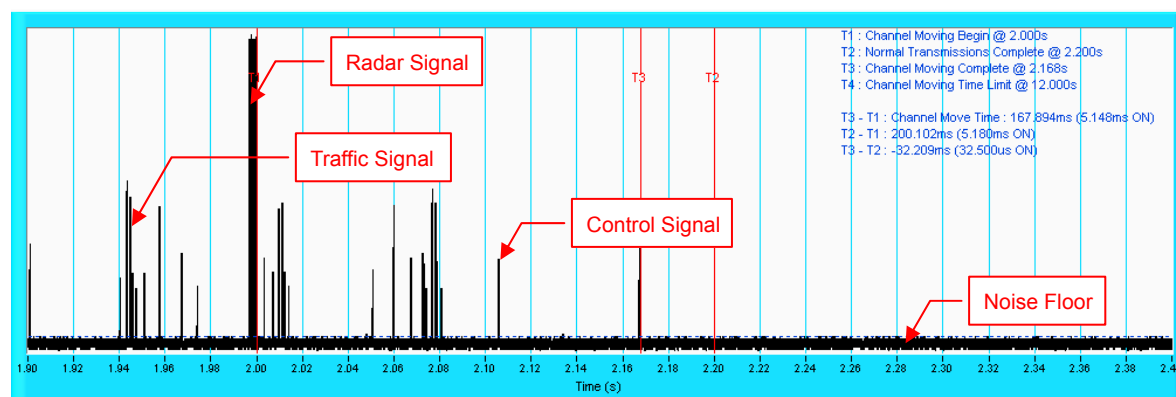
NOTE: Room-in of the first 500ms after radar signal applied.

Radar signal 4

IEEE 802.11n 40MHz



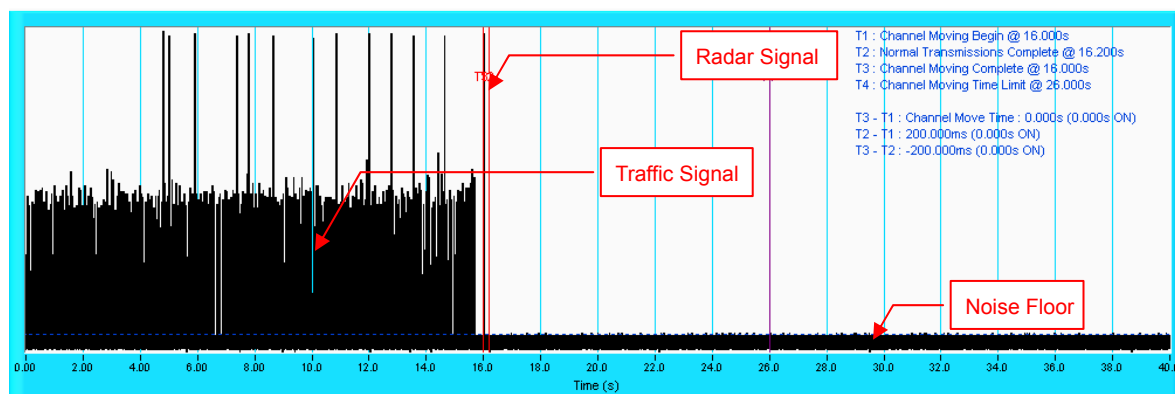
NOTE: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.



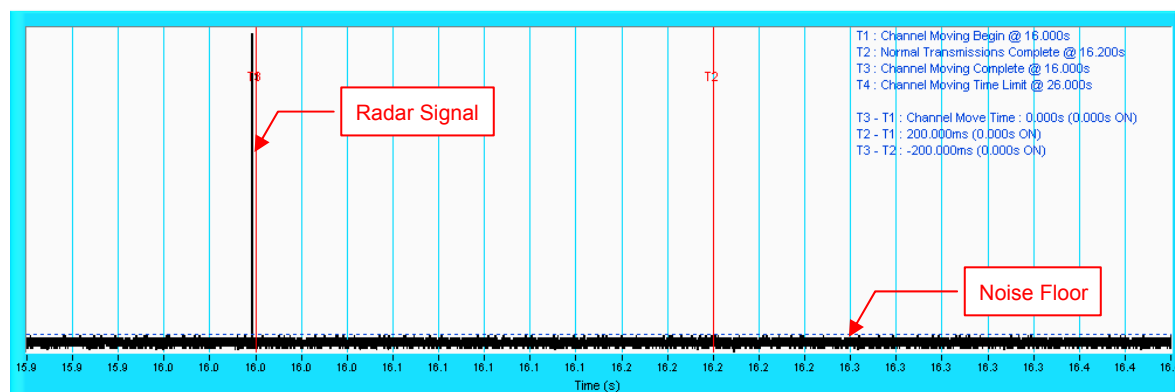
NOTE: Room-in of the first 500ms after radar signal applied.

Radar signal 5

IEEE 802.11n 40MHz



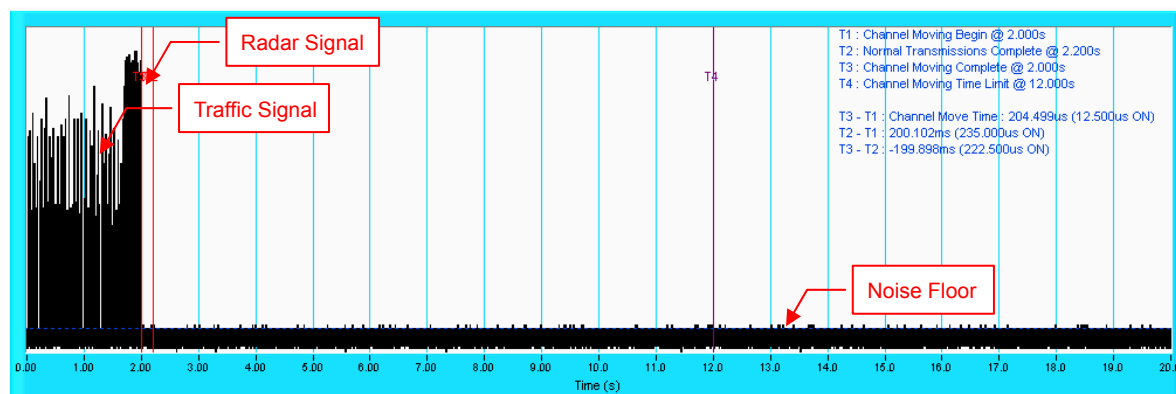
NOTE: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.



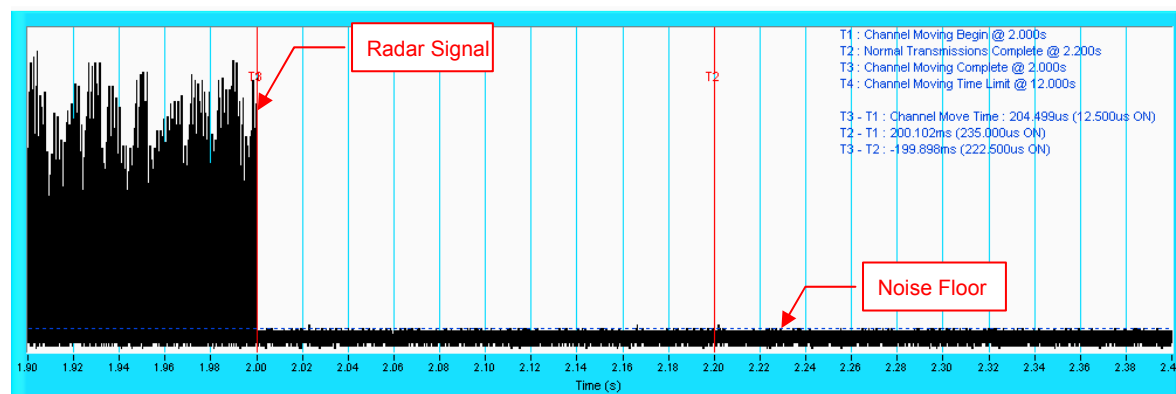
NOTE: Room-in of the first 500ms after radar signal applied.

Radar signal 6

IEEE 802.11n 40MHz



NOTE: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.



NOTE: Room-in of the first 500ms after radar signal applied.

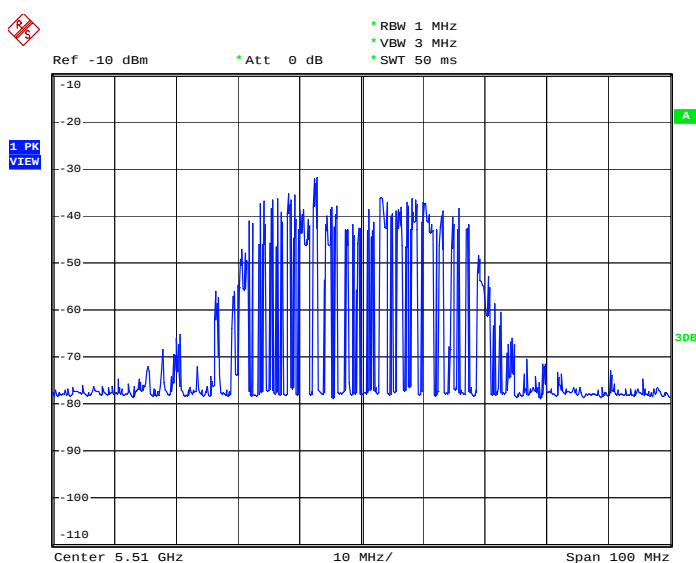
6.2.5 NON- OCCUPANCY PERIOD

Associate test:

During the 30 minutes observation time, UUT did not make any transmissions on a channel after a radar signal was detected on that channel by either the Channel Availability Check or the In-Service Monitoring.

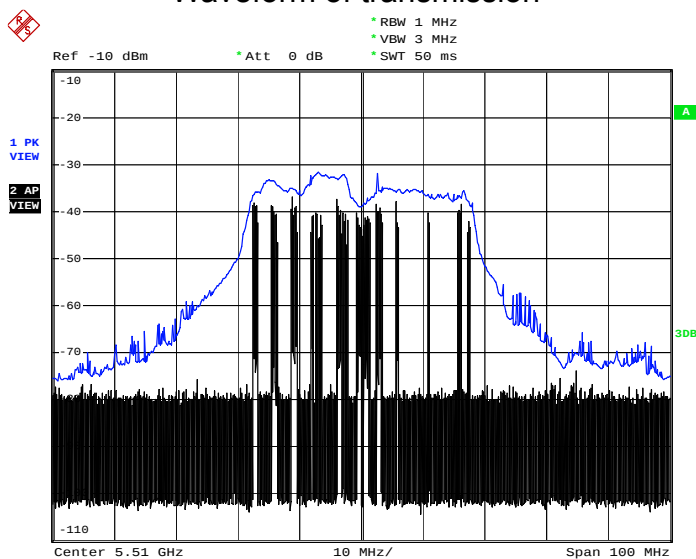
1) EUT links with master on 5510MHz.

Waveform of EUT links up with Master



2) Client plays specified files via master.

Waveform of transmission



3) Radar signal is applied to the Master device and WiFi traffic signal stop immediately.

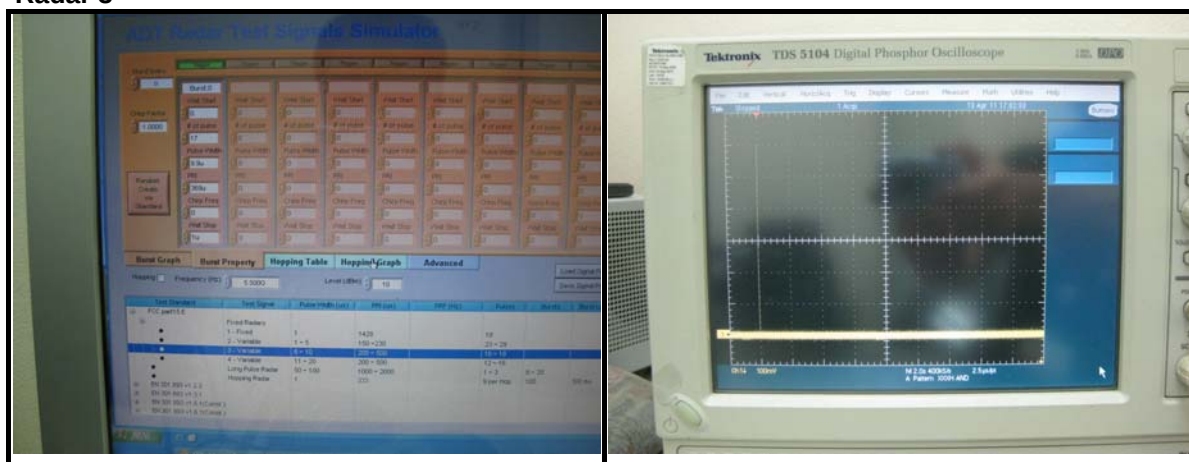
Radar 1



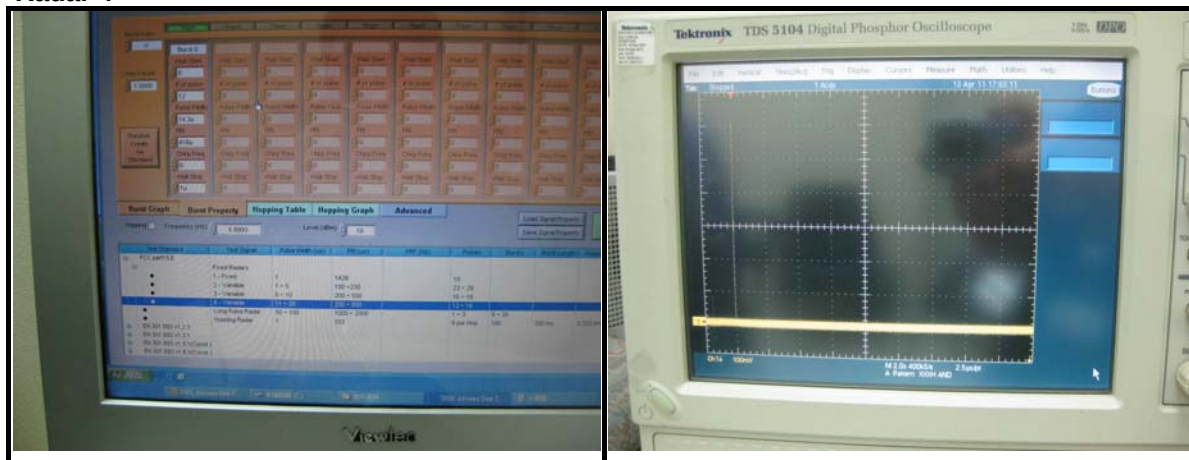
Radar 2



Radar 3



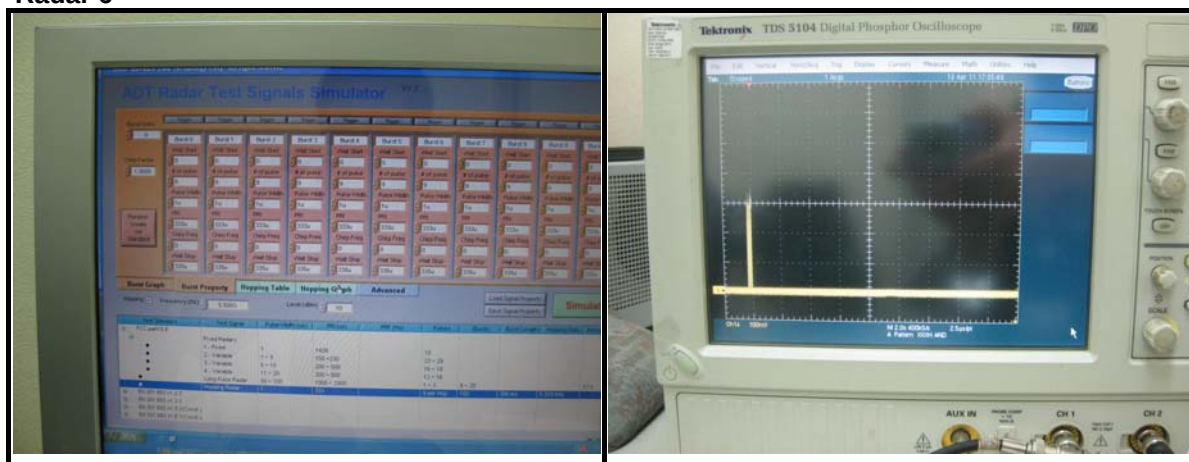
Radar 4



Radar 5



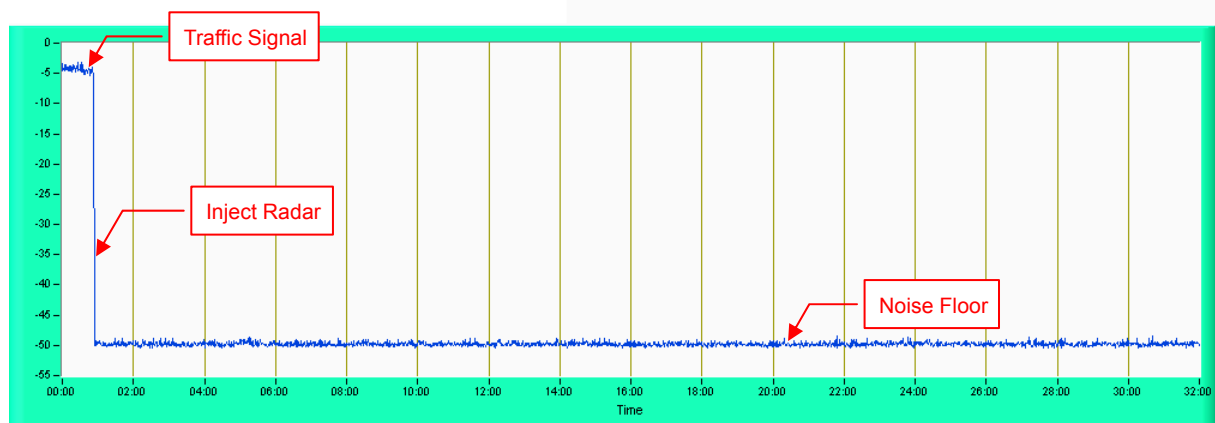
Radar 6



4) 5510MHz has been monitored in 30 minutes period. In this period, no any transmission occurs.

Plot of 30minutes period

802.11an 40MHz



NOTE: Test setup are shown on Test set up photo.pdf

6.2.6 UNIFORM SPREADING

The intention of the uniform spreading is to provide, on aggregate, a uniform loading of the spectrum. The EUT randomly select next output channel without any bias or fixed pattern, so that all channels in DFS bands (5250 to 5350MHz and 5470 to 5725 MHz) will be used equally.

6.2.7 TRANSMIT POWER CONTROL (TPC)

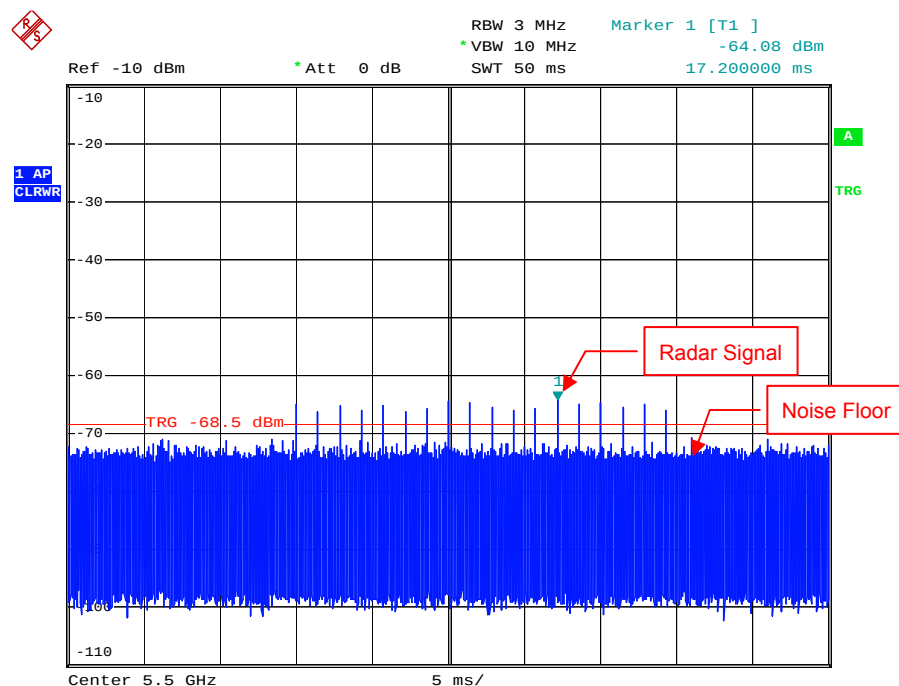
According to FCC 15.407(h)(1) the TPC mechanism is not required for system with an E.I.R.P. of less 500mW

6.2.8 TEST MODE: DEVICE OPERATING IN CLIENT WITHOUT RADAR DETECTION MODE

Client with injection at the Master. (The radar test signals are injected into the Master Device.

6.2.9 DFS DETECTION THRESHOLD

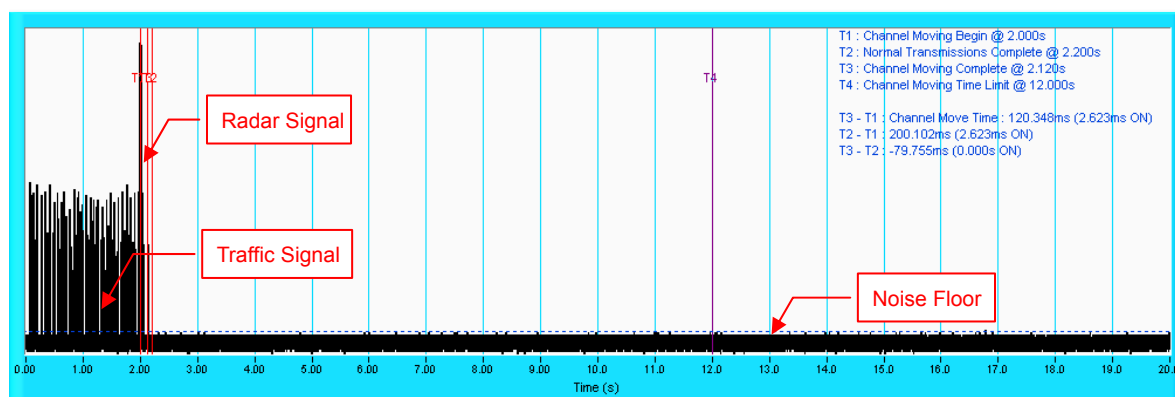
For a detection threshold level of -64dBm, the required signal strength at EUT antenna location is -64 dBm. The tested level is lower than required level hence it provides margin to the limit.



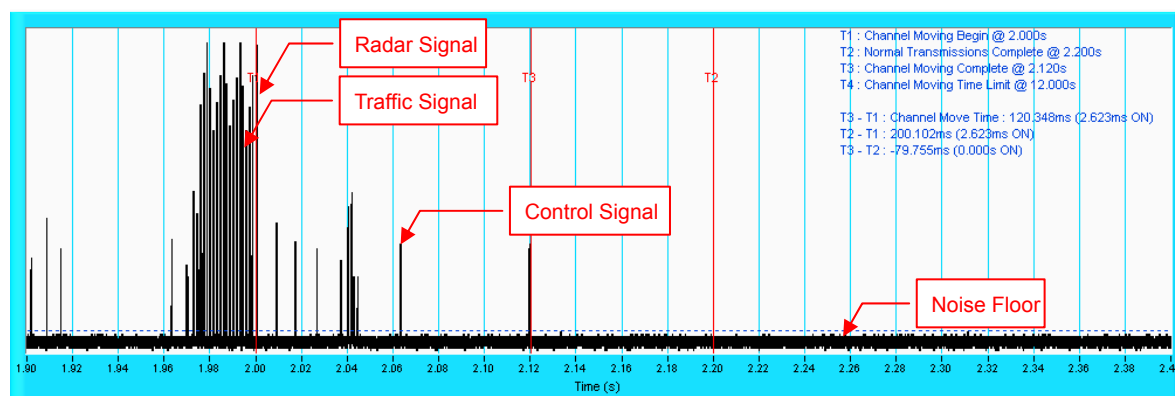
Radar Signal 1

6.2.10 CHANNEL CLOSING TRANSMISSION AND CHANNEL MOVE TIME

IEEE 802.11n 40MHz



NOTE: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.



NOTE: Room-in of the first 500ms after radar signal applied.

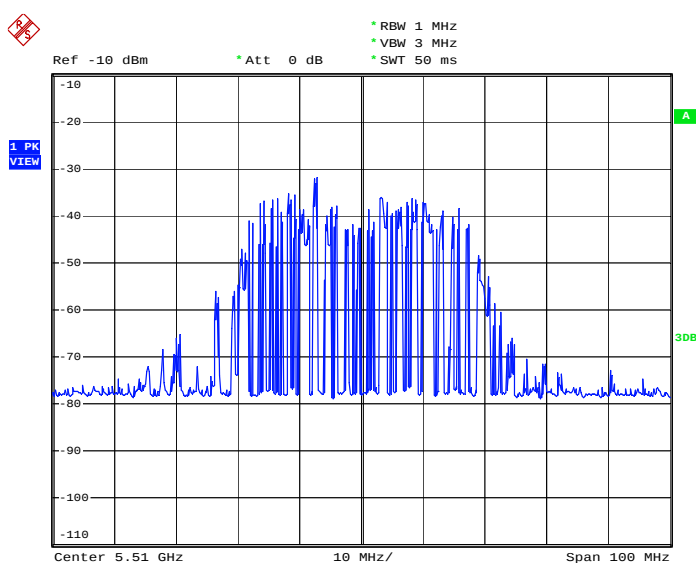
6.2.11 NON- OCCUPANCY PERIOD

Associate test:

During the 30 minutes observation time, UUT did not make any transmissions on a channel after a radar signal was detected on that channel by either the Channel Availability Check or the In-Service Monitoring.

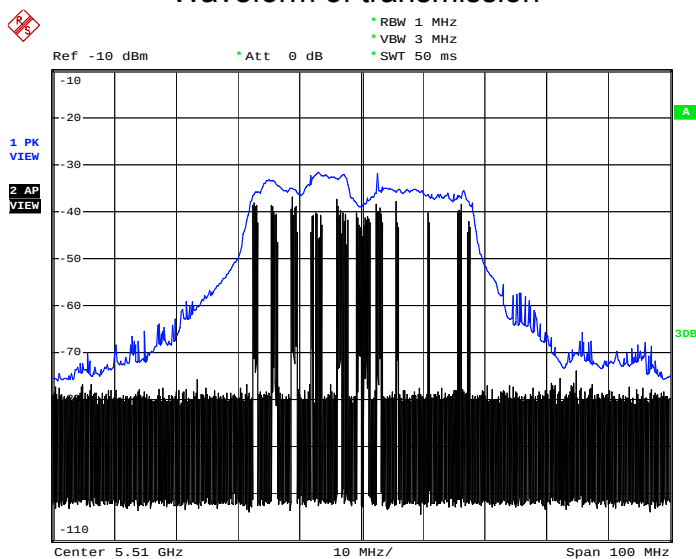
1) EUT links with master on 5510MHz.

Waveform of EUT links up with Master



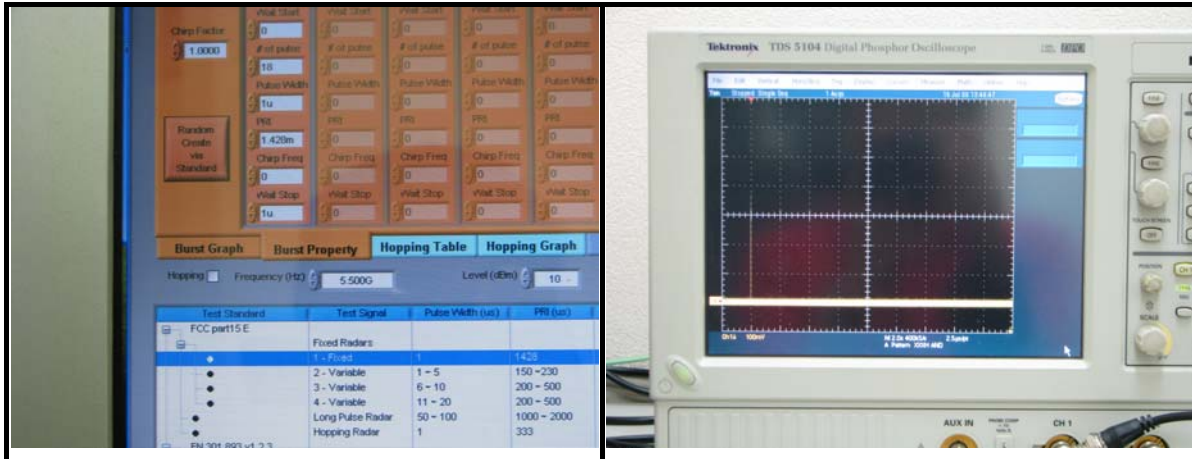
2) Client plays specified files via master.

Waveform of transmission



- 3) Radar signal is applied to the Master device and WiFi traffic signal stop immediately.

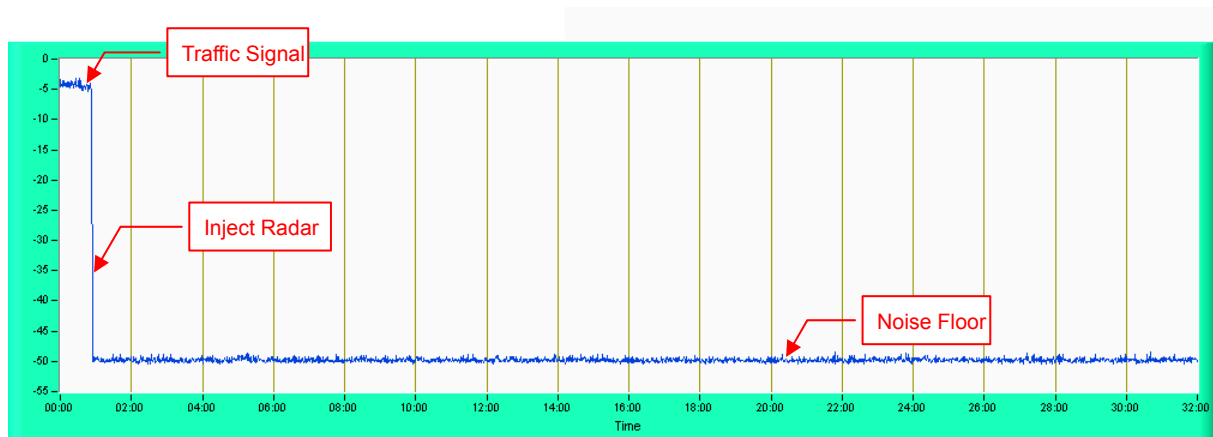
Radar 1



- 4) 5510MHz has been monitored in 30 minutes period. In this period, no any transmission occurs.

Plot of 30minutes period

802.11an 40MHz



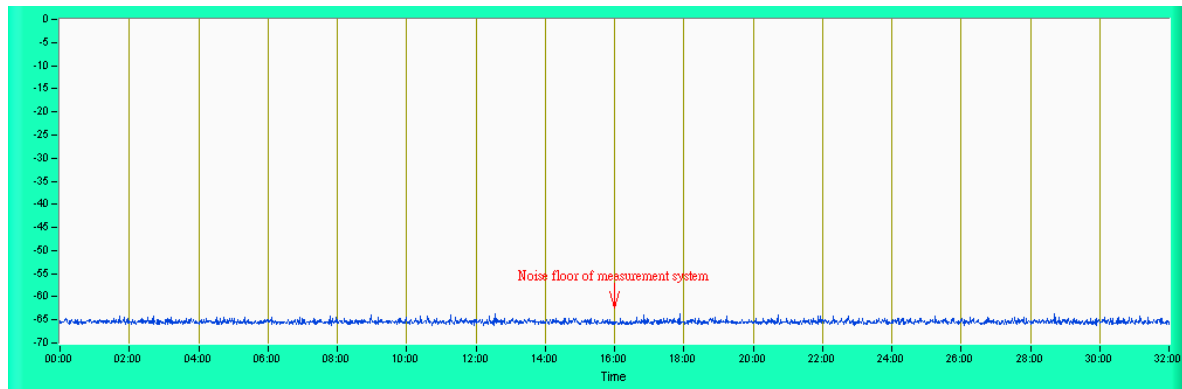
NOTE: Test setup are shown on Test set up photo.pdf

6.2.12 NON-ASSOCIATED TEST

Master was off.

During the 30 minutes observation time, The UUT did not make any transmissions in the DFS band after UUT power up.

802.11an 40MHz



6.2.13 NON- CO-CHANNEL TEST

The UUT was investigated after radar was detected the channel and made sure no co-channel operation with radars.

7. INFORMATION ON THE TESTING LABORATORIES

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF Lab

Tel: 886-3-5935343

Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety/Telecom Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

---END---

Annex-A

Annex A.1: The Detailed Radar pattern and Statistical Performance

IEEE 802.11N 40MHz

Type 1 Radar Statistical Performances				
Trial #	Pulses per Burst	Pulse Width (s)	PRI (s)	Detection
1	18	1.0u	1.428m	Yes
2	18	1.0u	1.428m	Yes
3	18	1.0u	1.428m	Yes
4	18	1.0u	1.428m	Yes
5	18	1.0u	1.428m	Yes
6	18	1.0u	1.428m	Yes
7	18	1.0u	1.428m	Yes
8	18	1.0u	1.428m	Yes
9	18	1.0u	1.428m	Yes
10	18	1.0u	1.428m	Yes
11	18	1.0u	1.428m	Yes
12	18	1.0u	1.428m	Yes
13	18	1.0u	1.428m	Yes
14	18	1.0u	1.428m	Yes
15	18	1.0u	1.428m	Yes
16	18	1.0u	1.428m	Yes
17	18	1.0u	1.428m	Yes
18	18	1.0u	1.428m	Yes
19	18	1.0u	1.428m	Yes
20	18	1.0u	1.428m	Yes
21	18	1.0u	1.428m	Yes
22	18	1.0u	1.428m	Yes
23	18	1.0u	1.428m	Yes
24	18	1.0u	1.428m	Yes
25	18	1.0u	1.428m	Yes
26	18	1.0u	1.428m	Yes
27	18	1.0u	1.428m	Yes
28	18	1.0u	1.428m	Yes
29	18	1.0u	1.428m	Yes
30	18	1.0u	1.428m	Yes
Detection Rate: 100.0 %				

Type 2 Radar Statistical Performances				
Trial #	Pulses per Burst	Pulse Width (s)	PRI (s)	Detection
1	28	4.3u	171.0u	Yes
2	25	2.8u	201.0u	Yes
3	26	3.6u	228.0u	Yes
4	28	2.5u	204.0u	Yes
5	24	3.5u	193.0u	Yes
6	23	3.1u	216.0u	Yes
7	27	3.5u	188.0u	Yes
8	24	3.6u	184.0u	Yes
9	25	2.0u	159.0u	Yes
10	25	1.5u	201.0u	Yes
11	29	3.9u	206.0u	Yes
12	27	4.6u	218.0u	Yes
13	27	4.6u	214.0u	Yes
14	28	1.2u	225.0u	Yes
15	24	4.7u	169.0u	Yes
16	27	3.9u	190.0u	Yes
17	26	3.3u	218.0u	Yes
18	28	4.1u	163.0u	Yes
19	25	3.8u	153.0u	Yes
20	28	4.0u	185.0u	Yes
21	27	1.3u	200.0u	Yes
22	26	1.5u	228.0u	Yes
23	27	2.7u	228.0u	Yes
24	28	3.5u	220.0u	Yes
25	25	3.4u	204.0u	Yes
26	24	2.7u	205.0u	Yes
27	26	4.3u	220.0u	Yes
28	27	2.7u	167.0u	Yes
29	25	3.0u	153.0u	Yes
30	26	1.5u	204.0u	Yes
Detection Rate: 100.0 %				

Type 3 Radar Statistical Performances				
Trial #	Pulses per Burst	Pulse Width (s)	PRI (s)	Detection
1	18	7.3u	305.0u	Yes
2	17	9.5u	211.0u	Yes
3	16	7.7u	414.0u	Yes
4	17	7.7u	491.0u	Yes
5	17	8.5u	440.0u	Yes
6	16	7.2u	348.0u	Yes
7	18	7.1u	416.0u	Yes
8	17	7.4u	422.0u	Yes
9	18	7.3u	351.0u	Yes
10	17	8.3u	443.0u	Yes
11	18	8.5u	394.0u	Yes
12	16	7.8u	466.0u	Yes
13	18	8.9u	488.0u	Yes
14	17	9.1u	261.0u	Yes
15	16	9.1u	444.0u	Yes
16	16	8.5u	218.0u	Yes
17	17	8.5u	200.0u	Yes
18	17	7.9u	267.0u	Yes
19	17	9.2u	263.0u	Yes
20	18	6.9u	245.0u	Yes
21	18	6.1u	309.0u	Yes
22	16	6.3u	276.0u	Yes
23	18	6.6u	201.0u	Yes
24	16	9.1u	476.0u	Yes
25	17	6.0u	277.0u	Yes
26	16	7.4u	366.0u	Yes
27	17	9.7u	288.0u	Yes
28	18	9.7u	433.0u	Yes
29	16	9.0u	261.0u	Yes
30	17	8.0u	321.0u	Yes
Detection Rate: 100.0 %				

Type 4 Radar Statistical Performances				
Trial #	Pulses per Burst	Pulse Width (s)	PRI (s)	Detection
1	14	12.7u	295.0u	No
2	13	16.6u	210.0u	Yes
3	15	13.4u	204.0u	Yes
4	16	12.8u	481.0u	Yes
5	13	18.5u	267.0u	Yes
6	13	13.1u	268.0u	Yes
7	14	11.5u	339.0u	Yes
8	16	19.0u	221.0u	Yes
9	13	16.1u	485.0u	Yes
10	15	15.4u	353.0u	Yes
11	12	14.4u	472.0u	Yes
12	13	13.1u	415.0u	Yes
13	13	14.7u	293.0u	Yes
14	14	14.3u	499.0u	Yes
15	13	13.1u	425.0u	Yes
16	16	19.9u	373.0u	Yes
17	13	16.6u	347.0u	Yes
18	15	15.2u	279.0u	Yes
19	16	13.0u	449.0u	Yes
20	12	11.2u	327.0u	Yes
21	12	16.6u	240.0u	Yes
22	12	14.4u	403.0u	No
23	12	11.7u	362.0u	Yes
24	15	19.2u	500.0u	Yes
25	13	11.1u	489.0u	Yes
26	14	15.0u	277.0u	No
27	15	13.7u	474.0u	Yes
28	15	16.1u	467.0u	Yes
29	14	19.0u	378.0u	Yes
30	15	11.9u	418.0u	Yes
Detection Rate: 90.0 %				

Type 5 Radar Statistical Performances		
Trial #	Test Signal Name	Detection
1	LP_Signal_01	Yes
2	LP_Signal_02	Yes
3	LP_Signal_03	Yes
4	LP_Signal_04	No
5	LP_Signal_05	Yes
6	LP_Signal_06	Yes
7	LP_Signal_07	Yes
8	LP_Signal_08	Yes
9	LP_Signal_09	Yes
10	LP_Signal_10	Yes
11	LP_Signal_11	Yes
12	LP_Signal_12	Yes
13	LP_Signal_13	Yes
14	LP_Signal_14	Yes
15	LP_Signal_15	Yes
16	LP_Signal_16	Yes
17	LP_Signal_17	No
18	LP_Signal_18	No
19	LP_Signal_19	Yes
20	LP_Signal_20	No
21	LP_Signal_21	Yes
22	LP_Signal_22	Yes
23	LP_Signal_23	Yes
24	LP_Signal_24	Yes
25	LP_Signal_25	Yes
26	LP_Signal_26	Yes
27	LP_Signal_27	Yes
28	LP_Signal_28	Yes
29	LP_Signal_29	Yes
30	LP_Signal_30	Yes
		Detection Rate: 86.7 %

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_01						
Number of Bursts in Trial: 10						
Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	19M	54.0u	1.834m	-	602.0m
2	1	8M	94.7u	-	-	487.9m
3	2	8M	85.8u	1.109m	-	136.9m
4	1	5M	71.1u	-	-	848.4m
5	2	18M	91.3u	1.012m	-	739.3m
6	2	18M	77.6u	1.760m	-	519.9m
7	1	14M	90.8u	-	-	413.5m
8	2	15M	82.2u	1.035m	-	488.0m
9	3	6M	73.2u	1.333m	1.150m	1.036
10	1	14M	74.9u	-	-	700.7m

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_02						
Number of Bursts in Trial: 11						
Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	6M	82.8u	1.156m	-	473.6m
2	1	5M	79.6u	-	-	179.6m
3	2	20M	89.5u	964.5u	-	255.9m
4	3	9M	69.9u	1.028m	1.536m	435.3m
5	3	15M	79.7u	1.576m	1.827m	808.5m
6	1	19M	84.3u	-	-	95.93m
7	2	16M	80.3u	1.179m	-	212.9m
8	3	8M	95.7u	1.063m	1.870m	143.2m
9	1	12M	78.9u	-	-	420.8m
10	2	17M	52.3u	1.436m	-	310.3m
11	3	19M	82.4u	966.6u	1.799m	428.3m

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_03						
Number of Bursts in Trial: 15						
Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	3	7M	78.1u	1.279m	1.741m	52.02m
2	1	9M	55.5u	-	-	154.3m
3	2	12M	71.7u	1.926m	-	205.9m
4	3	9M	94.7u	1.746m	1.227m	582.7m
5	2	13M	83.2u	1.080m	-	762.6m
6	3	20M	82.8u	1.039m	1.282m	188.4m
7	1	6M	93.1u	-	-	489.3m
8	2	13M	69.7u	1.841m	-	691.9m
9	3	12M	80.2u	1.178m	1.833m	763.4m
10	2	7M	97.7u	1.517m	-	92.51m
11	2	19M	75.7u	1.342m	-	275.2m
12	1	7M	97.1u	-	-	228.2m
13	2	7M	64.1u	1.421m	-	490.2m
14	2	13M	70.6u	1.901m	-	769.8m
15	2	19M	61.2u	1.887m	-	748.2m

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_04						
Number of Bursts in Trial: 18						
Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	3	6M	76.1u	1.005m	987.9u	249.9m
2	2	12M	91.2u	1.759m	-	75.08m
3	2	7M	75.6u	1.720m	-	275.6m
4	2	11M	98.6u	1.692m	-	490.4m
5	2	15M	82.9u	1.223m	-	339.6m
6	1	15M	62.7u	-	-	475.2m
7	3	14M	66.5u	986.5u	1.365m	93.73m
8	2	20M	90.0u	1.119m	-	608.9m
9	2	6M	92.6u	1.531m	-	370.4m
10	2	14M	53.3u	1.056m	-	522.6m
11	3	16M	62.5u	1.654m	1.472m	144.9m
12	3	17M	79.4u	1.847m	1.830m	186.7m
13	2	17M	67.1u	1.320m	-	230.4m
14	2	12M	53.1u	1.760m	-	363.0m
15	3	16M	57.4u	1.661m	1.161m	40.41m
16	1	17M	59.5u	-	-	507.2m
17	3	16M	75.7u	1.279m	1.218m	278.5m
18	2	19M	98.6u	1.818m	-	80.72m

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_05						
Number of Bursts in Trial: 17						
Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	3	11M	98.4u	1.873m	1.839m	607.7m
2	1	12M	52.1u	-	-	426.6m
3	2	7M	69.1u	1.053m	-	1.042m
4	2	16M	58.5u	1.262m	-	562.6m
5	2	11M	86.2u	1.064m	-	391.5m
6	2	9M	66.3u	1.266m	-	436.2m
7	1	8M	72.3u	-	-	72.94m
8	3	12M	50.4u	977.6u	1.515m	407.3m
9	2	9M	76.9u	1.741m	-	144.2m
10	2	16M	93.9u	961.1u	-	285.8m
11	2	10M	52.3u	1.485m	-	482.7m
12	2	16M	82.7u	1.691m	-	369.0m
13	2	13M	75.5u	1.357m	-	684.8m
14	2	8M	87.9u	1.039m	-	523.2m
15	2	15M	63.2u	1.829m	-	592.0m
16	3	14M	51.0u	1.295m	1.707m	637.8m
17	3	11M	92.1u	1.534m	1.270m	172.3m

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_06						
Number of Bursts in Trial: 9						
Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	14M	55.5u	1.837m	-	288.5m
2	2	13M	75.8u	1.138m	-	926.9m
3	1	20M	96.4u	-	-	323.1m
4	2	9M	69.5u	1.855m	-	797.3m
5	1	15M	76.8u	-	-	50.97m
6	1	16M	61.1u	-	-	303.3m
7	2	16M	95.0u	1.667m	-	945.1m
8	1	20M	95.1u	-	-	437.7m
9	2	20M	73.6u	1.363m	-	1.082

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_07						
Number of Bursts in Trial: 8						
Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	13M	71.3u	1.707m	-	200.6m
2	2	9M	95.3u	1.527m	-	39.84m
3	2	8M	61.5u	1.159m	-	28.72m
4	2	10M	90.8u	1.288m	-	816.0m
5	1	12M	62.9u	-	-	424.9m
6	3	13M	72.0u	1.081m	1.853m	702.8m
7	2	20M	76.6u	1.133m	-	1.008
8	1	13M	96.2u	-	-	345.2m

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_08						
Number of Bursts in Trial: 19						
Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	11M	61.3u	1.871m	-	192.1m
2	3	16M	82.9u	1.822m	1.592m	90.31m
3	1	19M	93.3u	-	-	492.5m
4	2	16M	90.5u	1.289m	-	21.73m
5	2	6M	98.1u	1.583m	-	233.2m
6	1	10M	82.0u	-	-	174.2m
7	2	17M	59.8u	942.2u	-	344.6m
8	3	11M	80.9u	977.1u	1.767m	45.63m
9	2	18M	75.3u	1.265m	-	399.2m
10	2	6M	91.6u	1.829m	-	311.8m
11	3	8M	56.7u	1.866m	1.520m	569.5m
12	1	11M	80.4u	-	-	406.9m
13	3	19M	63.7u	1.344m	1.404m	226.7m
14	2	11M	98.3u	1.643m	-	33.49m
15	3	5M	54.6u	1.303m	996.4u	608.5m
16	2	8M	82.7u	1.502m	-	88.45m
17	2	7M	92.6u	1.113m	-	389.7m
18	1	6M	95.3u	-	-	527.7m
19	3	11M	78.8u	1.148m	1.218m	26.88m

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_09						
Number of Bursts in Trial: 14						
Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	17M	97.6u	1.297m	-	224.0m
2	3	16M	66.4u	1.184m	1.523m	575.1m
3	1	9M	92.4u	-	-	402.4m
4	1	15M	76.3u	-	-	579.6m
5	2	19M	51.6u	1.195m	-	540.9m
6	2	9M	58.0u	1.936m	-	624.4m
7	2	18M	59.6u	1.666m	-	386.4m
8	1	18M	70.8u	-	-	512.2m
9	1	13M	52.5u	-	-	645.0m
10	2	17M	85.9u	1.383m	-	127.0m
11	2	7M	58.0u	1.085m	-	145.7m
12	2	15M	73.4u	1.569m	-	440.4m
13	1	11M	94.5u	-	-	726.9m
14	2	14M	62.4u	1.167m	-	179.1m

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_10						
Number of Bursts in Trial: 16						
Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	1	18M	64.2u	-	-	731.1m
2	2	9M	57.8u	1.482m	-	353.2m
3	3	19M	88.4u	1.395m	1.226m	386.9m
4	3	19M	99.1u	1.078m	1.296m	463.0m
5	3	18M	77.6u	1.463m	1.293m	529.4m
6	2	5M	90.1u	1.289m	-	711.3m
7	1	15M	97.6u	-	-	524.6m
8	3	15M	70.9u	1.905m	959.1u	512.5m
9	2	9M	80.1u	1.800m	-	25.12m
10	1	17M	86.1u	-	-	279.9m
11	2	8M	80.2u	1.139m	-	266.1m
12	3	9M	80.2u	1.349m	1.805m	484.2m
13	3	13M	93.5u	1.470m	1.829m	79.57m
14	2	12M	80.2u	1.657m	-	479.6m
15	1	9M	59.9u	-	-	739.9m
16	2	13M	96.9u	1.502m	-	57.82m

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_11						
Number of Bursts in Trial: 12						
Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	1	11M	82.4u	-	-	801.5m
2	3	7M	51.0u	1.598m	1.116m	684.8m
3	1	7M	85.1u	-	-	838.3m
4	2	15M	85.3u	1.060m	-	345.0m
5	1	15M	85.4u	-	-	323.6m
6	2	20M	63.7u	1.136m	-	114.0m
7	2	12M	50.3u	1.347m	-	928.3m
8	2	12M	77.1u	1.631m	-	559.8m
9	2	6M	57.4u	1.829m	-	572.8m
10	1	17M	76.0u	-	-	904.0m
11	1	18M	75.2u	-	-	471.9m
12	1	7M	74.3u	-	-	846.9m

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_12						
Number of Bursts in Trial: 19						
Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	3	7M	63.9u	1.736m	1.849m	4.417m
2	1	10M	56.3u	-	-	333.9m
3	2	20M	82.6u	1.194m	-	192.1m
4	3	12M	58.0u	1.297m	1.463m	414.5m
5	2	16M	57.4u	1.936m	-	262.2m
6	2	13M	76.9u	963.1u	-	232.6m
7	1	15M	80.5u	-	-	417.5m
8	1	16M	78.2u	-	-	362.3m
9	2	16M	77.5u	1.189m	-	297.6m
10	2	9M	93.1u	1.348m	-	385.5m
11	2	6M	68.0u	1.893m	-	434.7m
12	2	19M	55.9u	1.361m	-	588.8m
13	2	17M	72.7u	1.615m	-	621.6m
14	3	9M	69.9u	1.905m	1.128m	434.4m
15	2	9M	82.8u	1.887m	-	483.2m
16	3	13M	99.3u	1.740m	1.087m	1.062m
17	1	14M	76.5u	-	-	305.7m
18	3	15M	50.8u	1.268m	1.286m	409.9m
19	1	17M	91.1u	-	-	116.1m

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_13						
Number of Bursts in Trial: 16						
Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	17M	59.2u	1.903m	-	256.3m
2	3	7M	71.7u	1.153m	1.167m	679.1m
3	2	15M	71.5u	973.5u	-	117.7m
4	1	13M	70.2u	-	-	728.5m
5	2	13M	97.7u	1.390m	-	21.55m
6	2	18M	64.0u	1.628m	-	65.92m
7	1	11M	81.5u	-	-	431.2m
8	3	18M	77.7u	1.413m	1.324m	123.6m
9	2	6M	64.2u	1.868m	-	439.7m
10	3	19M	95.1u	1.799m	1.527m	305.8m
11	2	6M	95.0u	1.118m	-	688.1m
12	3	6M	98.9u	1.624m	1.700m	382.9m
13	2	7M	75.8u	1.369m	-	502.0m
14	1	15M	99.8u	-	-	407.7m
15	2	19M	82.3u	1.144m	-	552.9m
16	2	7M	86.1u	1.417m	-	595.0m

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_14						
Number of Bursts in Trial: 17						
Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	1	19M	58.2u	-	-	105.4m
2	2	16M	85.7u	1.241m	-	418.2m
3	3	9M	52.2u	1.921m	991.8u	589.5m
4	3	18M	50.5u	1.192m	1.342m	472.9m
5	2	12M	56.0u	1.322m	-	512.9m
6	2	9M	56.3u	1.062m	-	259.7m
7	2	11M	67.3u	1.554m	-	190.5m
8	2	19M	89.5u	1.869m	-	3.075m
9	3	12M	58.4u	1.841m	1.531m	36.14m
10	3	11M	65.8u	1.928m	1.774m	10.96m
11	2	10M	77.4u	1.227m	-	404.2m
12	2	6M	89.4u	1.062m	-	187.3m
13	3	12M	51.5u	1.518m	1.942m	565.1m
14	2	18M	82.2u	1.693m	-	404.1m
15	2	8M	60.3u	1.317m	-	630.9m
16	2	7M	53.0u	1.795m	-	290.5m
17	2	16M	67.5u	1.487m	-	297.6m

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_15						
Number of Bursts in Trial: 16						
Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	12M	65.5u	1.767m	-	97.41m
2	1	9M	77.2u	-	-	329.7m
3	3	18M	93.9u	1.207m	924.1u	115.7m
4	3	9M	67.8u	1.595m	1.125m	414.1m
5	3	7M	97.9u	1.563m	1.793m	278.4m
6	2	9M	65.4u	1.756m	-	168.8m
7	2	10M	95.0u	1.526m	-	722.7m
8	2	6M	77.8u	1.835m	-	410.5m
9	1	19M	54.8u	-	-	371.2m
10	2	7M	78.4u	1.314m	-	291.1m
11	1	17M	88.8u	-	-	560.5m
12	1	15M	52.3u	-	-	654.6m
13	1	11M	99.3u	-	-	636.7m
14	2	8M	52.9u	1.098m	-	304.5m
15	3	13M	70.5u	1.749m	1.404m	338.8m
16	2	7M	73.6u	1.689m	-	566.3m

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_16						
Number of Bursts in Trial: 16						
Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	3	15M	90.1u	1.543m	987.9u	500.3m
2	2	16M	64.7u	1.682m	-	441.2m
3	1	14M	51.5u	-	-	125.2m
4	1	12M	89.3u	-	-	726.8m
5	3	17M	55.3u	1.787m	1.179m	558.0m
6	2	19M	62.3u	1.812m	-	323.4m
7	1	20M	90.7u	-	-	539.4m
8	2	8M	61.9u	1.149m	-	13.66m
9	1	8M	64.8u	-	-	460.0m
10	1	9M	56.8u	-	-	300.1m
11	2	17M	85.5u	1.229m	-	704.3m
12	2	16M	55.7u	1.255m	-	254.9m
13	3	16M	56.1u	1.468m	1.929m	122.3m
14	1	19M	65.5u	-	-	709.1m
15	3	7M	60.2u	1.224m	1.560m	25.72m
16	3	8M	53.5u	1.066m	1.545m	61.40m

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_17						
Number of Bursts in Trial: 16						
Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	3	16M	59.2u	1.744m	1.653m	219.7m
2	3	14M	71.1u	1.345m	997.9u	361.9m
3	2	16M	86.5u	1.435m	-	349.1m
4	1	13M	71.4u	-	-	305.5m
5	1	19M	95.2u	-	-	314.9m
6	2	15M	96.0u	1.754m	-	446.8m
7	3	19M	58.2u	1.115m	1.873m	104.1m
8	3	13M	52.7u	1.152m	1.542m	329.2m
9	3	16M	79.3u	946.7u	1.064m	390.7m
10	2	9M	56.5u	1.660m	-	177.8m
11	3	15M	83.9u	1.524m	1.012m	311.9m
12	2	14M	92.5u	1.354m	-	52.95m
13	2	18M	53.6u	1.547m	-	410.8m
14	1	14M	71.6u	-	-	111.9m
15	2	7M	62.8u	1.637m	-	339.5m
16	3	20M	60.1u	1.875m	1.070m	38.67m

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_18						
Number of Bursts in Trial: 11						
Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	10M	93.3u	1.613m	-	1.079
2	3	15M	81.8u	1.294m	1.732m	918.4m
3	3	7M	90.9u	1.615m	1.546m	1.042
4	2	13M	75.0u	1.193m	-	742.8m
5	1	15M	62.5u	-	-	968.7m
6	1	17M	79.2u	-	-	908.6m
7	2	6M	66.7u	1.813m	-	712.1m
8	3	13M	87.7u	1.043m	936.3u	311.6m
9	1	6M	61.4u	-	-	599.4m
10	2	10M	82.2u	1.252m	-	495.1m
11	2	8M	89.9u	1.613m	-	190.8m

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_19						
Number of Bursts in Trial: 16						
Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	20M	68.2u	1.304m	-	98.26m
2	2	14M	65.5u	1.263m	-	397.3m
3	2	18M	92.4u	1.404m	-	573.3m
4	3	13M	54.6u	1.357m	1.923m	513.9m
5	2	16M	62.1u	1.169m	-	347.9m
6	3	5M	89.9u	1.430m	1.810m	285.8m
7	2	11M	64.4u	1.606m	-	302.5m
8	2	8M	53.9u	1.827m	-	390.3m
9	1	14M	58.8u	-	-	120.4m
10	2	11M	75.6u	1.014m	-	143.8m
11	3	11M	89.0u	1.617m	1.503m	462.7m
12	2	20M	82.5u	1.215m	-	299.3m
13	2	14M	52.8u	1.833m	-	108.3m
14	3	18M	66.4u	1.644m	1.528m	71.13m
15	3	13M	84.2u	1.330m	1.622m	587.9m
16	2	20M	63.8u	1.064m	-	48.99m

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_20						
Number of Bursts in Trial: 20						
Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	1	18M	57.4u	-	-	425.4m
2	1	9M	63.6u	-	-	180.7m
3	1	7M	81.5u	-	-	505.6m
4	2	14M	93.6u	1.378m	-	458.8m
5	3	14M	54.3u	1.565m	1.116m	88.36m
6	2	13M	86.3u	1.408m	-	228.6m
7	1	17M	94.3u	-	-	507.2m
8	2	5M	78.0u	1.240m	-	247.8m
9	1	17M	86.7u	-	-	21.43m
10	2	16M	82.8u	1.189m	-	55.56m
11	1	14M	70.6u	-	-	443.3m
12	1	16M	63.4u	-	-	489.4m
13	2	17M	58.1u	998.9u	-	63.21m
14	2	14M	52.7u	1.908m	-	510.2m
15	1	12M	81.6u	-	-	549.9m
16	2	6M	62.6u	1.207m	-	440.0m
17	2	8M	89.9u	1.635m	-	235.4m
18	2	5M	91.2u	1.357m	-	341.2m
19	2	15M	60.7u	1.113m	-	43.75m
20	3	12M	73.1u	1.563m	1.927m	30.66m

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_21						
Number of Bursts in Trial: 13						
Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	3	19M	52.6u	1.623m	981.4u	646.6m
2	3	19M	82.1u	1.903m	1.859m	820.3m
3	1	14M	84.4u	-	-	869.2m
4	3	13M	75.5u	1.089m	1.400m	628.7m
5	2	11M	90.6u	935.4u	-	450.0m
6	2	17M	66.8u	1.717m	-	254.1m
7	2	9M	53.0u	1.849m	-	139.6m
8	3	10M	91.3u	1.574m	1.305m	365.1m
9	2	15M	94.0u	1.167m	-	716.2m
10	3	8M	84.4u	1.622m	1.152m	90.67m
11	3	9M	91.9u	1.782m	919.1u	357.5m
12	2	8M	69.2u	979.8u	-	114.8m
13	3	10M	86.6u	1.229m	975.4u	894.3m

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_22						
Number of Bursts in Trial: 15						
Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	9M	82.3u	1.297m	-	584.4m
2	2	12M	60.0u	1.691m	-	758.8m
3	2	11M	93.4u	1.735m	-	185.9m
4	3	9M	93.8u	948.2u	1.588m	97.66m
5	2	11M	90.8u	1.010m	-	628.6m
6	2	10M	89.0u	1.393m	-	33.35m
7	2	16M	65.5u	1.544m	-	636.7m
8	2	19M	72.2u	1.412m	-	711.4m
9	2	18M	56.9u	1.580m	-	211.4m
10	3	17M	93.9u	1.437m	1.743m	14.17m
11	2	19M	60.6u	1.734m	-	522.1m
12	2	6M	83.6u	1.811m	-	107.6m
13	1	13M	89.2u	-	-	516.2m
14	1	12M	71.3u	-	-	262.7m
15	2	8M	71.7u	1.434m	-	437.8m

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_23						
Number of Bursts in Trial: 16						
Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	6M	68.4u	1.739m	-	136.8m
2	2	20M	80.6u	1.373m	-	490.7m
3	2	9M	50.5u	1.944m	-	583.5m
4	3	14M	51.6u	1.210m	1.696m	109.8m
5	2	17M	61.8u	1.742m	-	436.3m
6	2	16M	90.2u	1.166m	-	363.4m
7	3	17M	56.0u	953.0u	1.648m	332.0m
8	1	14M	88.6u	-	-	300.0m
9	3	19M	92.2u	1.890m	1.012m	418.5m
10	2	6M	61.5u	974.5u	-	217.5m
11	3	12M	68.7u	1.086m	1.262m	155.0m
12	2	6M	82.0u	1.366m	-	70.81m
13	1	16M	56.7u	-	-	46.03m
14	1	6M	86.8u	-	-	44.33m
15	3	15M	90.6u	973.4u	1.101m	591.3m
16	2	10M	82.1u	1.313m	-	312.6m

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_24						
Number of Bursts in Trial: 11						
Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	19M	73.3u	997.7u	-	222.3m
2	3	14M	97.2u	1.148m	1.600m	74.28m
3	1	15M	85.2u	-	-	520.1m
4	3	7M	65.7u	1.615m	1.601m	954.5m
5	1	18M	70.2u	-	-	582.5m
6	2	9M	50.5u	1.801m	-	105.8m
7	1	16M	89.6u	-	-	880.9m
8	2	15M	67.3u	1.097m	-	638.9m
9	3	11M	87.2u	1.746m	1.601m	941.4m
10	2	11M	69.1u	1.661m	-	699.4m
11	2	9M	61.6u	1.628m	-	85.72m

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_25						
Number of Bursts in Trial: 13						
Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	3	19M	57.2u	1.368m	1.020m	780.5m
2	3	11M	53.8u	1.281m	1.680m	459.5m
3	2	16M	68.8u	1.156m	-	100.3m
4	1	13M	84.0u	-	-	903.7m
5	3	19M	94.1u	1.670m	1.039m	696.8m
6	2	12M	82.6u	1.915m	-	852.4m
7	2	6M	93.8u	981.2u	-	152.8m
8	1	7M	56.4u	-	-	266.4m
9	1	14M	59.4u	-	-	16.55m
10	2	10M	68.2u	1.257m	-	404.5m
11	3	9M	57.0u	1.155m	1.179m	870.1m
12	1	14M	53.9u	-	-	308.4m
13	1	6M	61.1u	-	-	177.5m

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_26						
Number of Bursts in Trial: 11						
Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	3	9M	85.0u	1.644m	1.365m	919.8m
2	1	9M	82.2u	-	-	1.083
3	1	15M	69.3u	-	-	408.6m
4	1	9M	91.4u	-	-	195.9m
5	2	7M	70.1u	1.335m	-	977.6m
6	1	15M	72.5u	-	-	18.12m
7	3	8M	87.2u	1.660m	1.746m	136.4m
8	2	10M	62.5u	1.731m	-	978.5m
9	2	8M	67.6u	964.4u	-	1.057
10	2	9M	55.3u	1.480m	-	182.5m
11	1	12M	95.7u	-	-	1.007

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_27						
Number of Bursts in Trial: 13						
Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	6M	84.1u	1.249m	-	568.3m
2	2	6M	60.5u	1.846m	-	882.4m
3	2	18M	92.4u	1.409m	-	284.6m
4	2	19M	70.0u	1.502m	-	834.9m
5	2	9M	58.8u	1.572m	-	238.7m
6	2	6M	76.2u	1.605m	-	843.1m
7	2	15M	92.5u	1.816m	-	826.8m
8	3	16M	56.7u	1.439m	1.353m	764.0m
9	3	20M	78.2u	1.702m	1.391m	465.1m
10	1	7M	61.4u	-	-	248.9m
11	3	5M	52.7u	1.880m	1.417m	396.9m
12	2	16M	86.9u	1.332m	-	722.6m
13	2	7M	67.8u	1.363m	-	868.6m

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_28						
Number of Bursts in Trial: 14						
Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	7M	50.6u	1.455m	-	826.7m
2	2	13M	57.4u	1.365m	-	89.00m
3	2	13M	71.3u	1.699m	-	42.76m
4	2	9M	79.6u	1.667m	-	845.3m
5	2	12M	63.6u	1.876m	-	49.92m
6	2	5M	83.3u	918.7u	-	106.4m
7	1	13M	94.7u	-	-	577.9m
8	2	16M	52.7u	1.519m	-	798.0m
9	2	15M	72.9u	1.115m	-	391.0m
10	1	6M	63.7u	-	-	118.5m
11	3	13M	57.1u	1.711m	1.274m	689.5m
12	2	18M	58.6u	1.704m	-	131.3m
13	3	17M	93.1u	1.167m	980.9u	794.0m
14	1	13M	61.8u	-	-	670.4m

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_29						
Number of Bursts in Trial: 19						
Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	3	19M	65.9u	1.262m	994.1u	285.8m
2	1	8M	90.5u	-	-	126.2m
3	2	8M	78.5u	1.863m	-	551.3m
4	3	18M	97.4u	1.021m	1.333m	53.53m
5	2	12M	92.3u	1.159m	-	381.0m
6	2	15M	88.5u	1.100m	-	542.4m
7	1	14M	95.9u	-	-	402.5m
8	1	7M	57.6u	-	-	311.4m
9	2	15M	64.0u	1.345m	-	550.1m
10	2	7M	53.4u	1.771m	-	47.88m
11	2	8M	87.9u	1.513m	-	352.2m
12	1	14M	63.0u	-	-	399.9m
13	1	6M	62.9u	-	-	449.4m
14	2	7M	76.6u	1.235m	-	434.1m
15	3	13M	98.2u	1.690m	1.208m	134.4m
16	1	10M	78.7u	-	-	171.3m
17	1	15M	61.7u	-	-	467.6m
18	3	20M	70.6u	966.4u	1.331m	524.8m
19	1	12M	75.9u	-	-	324.5m

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_30						
Number of Bursts in Trial: 19						
Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	1	19M	56.7u	-	-	289.1m
2	1	15M	61.2u	-	-	518.2m
3	1	8M	96.0u	-	-	311.5m
4	1	8M	78.6u	-	-	178.5m
5	2	7M	77.2u	1.431m	-	553.8m
6	3	9M	69.1u	1.031m	1.863m	356.3m
7	2	9M	99.6u	1.011m	-	575.4m
8	2	10M	64.5u	1.105m	-	229.2m
9	1	17M	68.8u	-	-	498.3m
10	2	9M	86.4u	1.098m	-	265.1m
11	3	19M	77.6u	1.199m	1.268m	212.1m
12	3	12M	62.5u	1.848m	1.442m	262.9m
13	1	18M	84.6u	-	-	549.8m
14	3	11M	84.6u	1.305m	1.446m	186.1m
15	2	16M	73.2u	998.8u	-	538.7m
16	2	20M	52.7u	1.369m	-	174.7m
17	1	12M	87.3u	-	-	476.4m
18	2	5M	95.7u	1.416m	-	307.2m
19	2	9M	73.0u	1.343m	-	328.5m

Type 6 Radar Statistical Performances				
Trial #	Pulses per Burst	Pulse Width (s)	PRI (s)	Detection
1	9	1.0u	333.0u	Yes
2	9	1.0u	333.0u	Yes
3	9	1.0u	333.0u	Yes
4	9	1.0u	333.0u	Yes
5	9	1.0u	333.0u	Yes
6	9	1.0u	333.0u	Yes
7	9	1.0u	333.0u	Yes
8	9	1.0u	333.0u	Yes
9	9	1.0u	333.0u	Yes
10	9	1.0u	333.0u	Yes
11	9	1.0u	333.0u	Yes
12	9	1.0u	333.0u	Yes
13	9	1.0u	333.0u	Yes
14	9	1.0u	333.0u	Yes
15	9	1.0u	333.0u	Yes
16	9	1.0u	333.0u	Yes
17	9	1.0u	333.0u	Yes
18	9	1.0u	333.0u	Yes
19	9	1.0u	333.0u	Yes
20	9	1.0u	333.0u	Yes
21	9	1.0u	333.0u	Yes
22	9	1.0u	333.0u	No
23	9	1.0u	333.0u	Yes
24	9	1.0u	333.0u	Yes
25	9	1.0u	333.0u	Yes
26	9	1.0u	333.0u	Yes
27	9	1.0u	333.0u	Yes
28	9	1.0u	333.0u	Yes
29	9	1.0u	333.0u	Yes
30	9	1.0u	333.0u	Yes
Detection Rate: 96.7 %				

Type 6 Radar Statistical Performances		
Trial #	Hopping Frequency Sequence Name	Detection
1	HOP_FREQ_SEQ_01	Yes
2	HOP_FREQ_SEQ_02	Yes
3	HOP_FREQ_SEQ_03	Yes
4	HOP_FREQ_SEQ_04	Yes
5	HOP_FREQ_SEQ_05	Yes
6	HOP_FREQ_SEQ_06	Yes
7	HOP_FREQ_SEQ_07	Yes
8	HOP_FREQ_SEQ_08	Yes
9	HOP_FREQ_SEQ_09	Yes
10	HOP_FREQ_SEQ_10	Yes
11	HOP_FREQ_SEQ_11	Yes
12	HOP_FREQ_SEQ_12	Yes
13	HOP_FREQ_SEQ_13	Yes
14	HOP_FREQ_SEQ_14	Yes
15	HOP_FREQ_SEQ_15	Yes
16	HOP_FREQ_SEQ_16	Yes
17	HOP_FREQ_SEQ_17	Yes
18	HOP_FREQ_SEQ_18	Yes
19	HOP_FREQ_SEQ_19	Yes
20	HOP_FREQ_SEQ_20	Yes
21	HOP_FREQ_SEQ_21	Yes
22	HOP_FREQ_SEQ_22	No
23	HOP_FREQ_SEQ_23	Yes
24	HOP_FREQ_SEQ_24	Yes
25	HOP_FREQ_SEQ_25	Yes
26	HOP_FREQ_SEQ_26	Yes
27	HOP_FREQ_SEQ_27	Yes
28	HOP_FREQ_SEQ_28	Yes
29	HOP_FREQ_SEQ_29	Yes
30	HOP_FREQ_SEQ_30	Yes
		Detection Rate: 96.7 %

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_01							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.357G	2	5.585G	3	5.509G	4	5.343G
5	5.299G	6	5.369G	7	5.631G	8	5.682G
9	5.635G	10	5.525G	11	5.516G	12	5.459G
13	5.517G	14	5.538G	15	5.576G	16	5.404G
17	5.577G	18	5.465G	19	5.295G	20	5.286G
21	5.490G	22	5.258G	23	5.651G	24	5.388G
25	5.330G	26	5.395G	27	5.588G	28	5.466G
29	5.451G	30	5.596G	31	5.257G	32	5.414G
33	5.476G	34	5.550G	35	5.616G	36	5.572G
37	5.487G	38	5.480G	39	5.400G	40	5.646G
41	5.582G	42	5.529G	43	5.523G	44	5.696G
45	5.570G	46	5.306G	47	5.291G	48	5.345G
49	5.353G	50	5.340G	51	5.705G	52	5.347G
53	5.438G	54	5.264G	55	5.687G	56	5.575G
57	5.673G	58	5.674G	59	5.681G	60	5.333G
61	5.314G	62	5.608G	63	5.368G	64	5.693G
65	5.558G	66	5.321G	67	5.275G	68	5.485G
69	5.489G	70	5.393G	71	5.280G	72	5.389G
73	5.638G	74	5.547G	75	5.364G	76	5.473G
77	5.503G	78	5.421G	79	5.671G	80	5.532G
81	5.571G	82	5.336G	83	5.713G	84	5.284G
85	5.692G	86	5.467G	87	5.384G	88	5.698G
89	5.398G	90	5.657G	91	5.551G	92	5.477G
93	5.423G	94	5.435G	95	5.595G	96	5.664G
97	5.530G	98	5.626G	99	5.415G	100	5.332G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_02							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.316G	2	5.473G	3	5.456G	4	5.591G
5	5.396G	6	5.511G	7	5.551G	8	5.715G
9	5.543G	10	5.631G	11	5.372G	12	5.684G
13	5.625G	14	5.692G	15	5.359G	16	5.660G
17	5.464G	18	5.555G	19	5.707G	20	5.617G
21	5.451G	22	5.680G	23	5.720G	24	5.704G
25	5.569G	26	5.438G	27	5.560G	28	5.544G
29	5.557G	30	5.723G	31	5.269G	32	5.402G
33	5.425G	34	5.604G	35	5.640G	36	5.254G
37	5.340G	38	5.678G	39	5.410G	40	5.687G
41	5.467G	42	5.711G	43	5.268G	44	5.566G
45	5.531G	46	5.431G	47	5.521G	48	5.282G
49	5.589G	50	5.537G	51	5.441G	52	5.629G
53	5.658G	54	5.657G	55	5.646G	56	5.512G
57	5.582G	58	5.357G	59	5.501G	60	5.299G
61	5.286G	62	5.601G	63	5.626G	64	5.398G
65	5.611G	66	5.700G	67	5.349G	68	5.374G
69	5.579G	70	5.472G	71	5.654G	72	5.693G
73	5.480G	74	5.513G	75	5.712G	76	5.400G
77	5.683G	78	5.487G	79	5.650G	80	5.667G
81	5.468G	82	5.336G	83	5.509G	84	5.635G
85	5.453G	86	5.548G	87	5.528G	88	5.702G
89	5.474G	90	5.295G	91	5.614G	92	5.546G
93	5.538G	94	5.408G	95	5.406G	96	5.457G
97	5.668G	98	5.377G	99	5.387G	100	5.434G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_03							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.477G	2	5.348G	3	5.584G	4	5.265G
5	5.272G	6	5.393G	7	5.443G	8	5.444G
9	5.663G	10	5.446G	11	5.647G	12	5.317G
13	5.332G	14	5.476G	15	5.691G	16	5.678G
17	5.582G	18	5.383G	19	5.631G	20	5.417G
21	5.630G	22	5.482G	23	5.700G	24	5.322G
25	5.509G	26	5.399G	27	5.407G	28	5.688G
29	5.707G	30	5.344G	31	5.355G	32	5.384G
33	5.651G	34	5.310G	35	5.277G	36	5.616G
37	5.356G	38	5.649G	39	5.389G	40	5.564G
41	5.720G	42	5.424G	43	5.409G	44	5.608G
45	5.439G	46	5.680G	47	5.323G	48	5.377G
49	5.326G	50	5.419G	51	5.571G	52	5.604G
53	5.427G	54	5.507G	55	5.644G	56	5.462G
57	5.711G	58	5.464G	59	5.566G	60	5.544G
61	5.260G	62	5.662G	63	5.429G	64	5.683G
65	5.612G	66	5.451G	67	5.646G	68	5.327G
69	5.362G	70	5.724G	71	5.555G	72	5.366G
73	5.675G	74	5.524G	75	5.319G	76	5.382G
77	5.359G	78	5.257G	79	5.540G	80	5.378G
81	5.606G	82	5.621G	83	5.295G	84	5.716G
85	5.655G	86	5.643G	87	5.298G	88	5.491G
89	5.598G	90	5.667G	91	5.615G	92	5.438G
93	5.455G	94	5.361G	95	5.622G	96	5.580G
97	5.379G	98	5.704G	99	5.357G	100	5.463G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_04							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.673G	2	5.397G	3	5.560G	4	5.655G
5	5.428G	6	5.653G	7	5.403G	8	5.574G
9	5.544G	10	5.483G	11	5.454G	12	5.596G
13	5.564G	14	5.391G	15	5.450G	16	5.466G
17	5.264G	18	5.684G	19	5.615G	20	5.274G
21	5.638G	22	5.619G	23	5.641G	24	5.459G
25	5.601G	26	5.721G	27	5.378G	28	5.514G
29	5.575G	30	5.659G	31	5.316G	32	5.331G
33	5.434G	34	5.258G	35	5.645G	36	5.612G
37	5.592G	38	5.294G	39	5.477G	40	5.341G
41	5.703G	42	5.345G	43	5.376G	44	5.678G
45	5.630G	46	5.475G	47	5.713G	48	5.305G
49	5.387G	50	5.696G	51	5.354G	52	5.401G
53	5.283G	54	5.456G	55	5.291G	56	5.566G
57	5.448G	58	5.545G	59	5.468G	60	5.361G
61	5.437G	62	5.683G	63	5.290G	64	5.695G
65	5.329G	66	5.649G	67	5.336G	68	5.621G
69	5.271G	70	5.254G	71	5.367G	72	5.605G
73	5.301G	74	5.558G	75	5.352G	76	5.557G
77	5.679G	78	5.710G	79	5.370G	80	5.297G
81	5.309G	82	5.373G	83	5.602G	84	5.720G
85	5.259G	86	5.287G	87	5.689G	88	5.277G
89	5.552G	90	5.536G	91	5.576G	92	5.624G
93	5.337G	94	5.464G	95	5.667G	96	5.436G
97	5.447G	98	5.303G	99	5.278G	100	5.540G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_05							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.356G	2	5.525G	3	5.462G	4	5.298G
5	5.577G	6	5.388G	7	5.307G	8	5.436G
9	5.266G	10	5.425G	11	5.582G	12	5.667G
13	5.319G	14	5.408G	15	5.374G	16	5.503G
17	5.570G	18	5.514G	19	5.605G	20	5.333G
21	5.413G	22	5.590G	23	5.488G	24	5.352G
25	5.253G	26	5.383G	27	5.290G	28	5.286G
29	5.587G	30	5.638G	31	5.421G	32	5.416G
33	5.597G	34	5.660G	35	5.534G	36	5.366G
37	5.430G	38	5.252G	39	5.326G	40	5.512G
41	5.655G	42	5.310G	43	5.573G	44	5.271G
45	5.551G	46	5.626G	47	5.690G	48	5.546G
49	5.435G	50	5.653G	51	5.720G	52	5.265G
53	5.402G	54	5.459G	55	5.468G	56	5.432G
57	5.565G	58	5.661G	59	5.624G	60	5.426G
61	5.418G	62	5.392G	63	5.516G	64	5.305G
65	5.276G	66	5.659G	67	5.643G	68	5.693G
69	5.478G	70	5.309G	71	5.354G	72	5.544G
73	5.641G	74	5.476G	75	5.446G	76	5.414G
77	5.407G	78	5.336G	79	5.466G	80	5.364G
81	5.457G	82	5.521G	83	5.398G	84	5.481G
85	5.648G	86	5.346G	87	5.322G	88	5.692G
89	5.306G	90	5.454G	91	5.283G	92	5.344G
93	5.300G	94	5.437G	95	5.614G	96	5.559G
97	5.552G	98	5.456G	99	5.522G	100	5.349G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_06							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.297G	2	5.628G	3	5.478G	4	5.560G
5	5.724G	6	5.444G	7	5.655G	8	5.501G
9	5.480G	10	5.587G	11	5.372G	12	5.472G
13	5.529G	14	5.610G	15	5.663G	16	5.533G
17	5.380G	18	5.278G	19	5.381G	20	5.586G
21	5.496G	22	5.428G	23	5.575G	24	5.712G
25	5.591G	26	5.319G	27	5.625G	28	5.378G
29	5.667G	30	5.612G	31	5.720G	32	5.367G
33	5.689G	34	5.683G	35	5.485G	36	5.313G
37	5.546G	38	5.506G	39	5.280G	40	5.411G
41	5.361G	42	5.669G	43	5.438G	44	5.542G
45	5.384G	46	5.535G	47	5.293G	48	5.383G
49	5.695G	50	5.390G	51	5.708G	52	5.325G
53	5.715G	54	5.624G	55	5.331G	56	5.366G
57	5.257G	58	5.393G	59	5.308G	60	5.631G
61	5.685G	62	5.507G	63	5.619G	64	5.508G
65	5.616G	66	5.258G	67	5.284G	68	5.421G
69	5.299G	70	5.288G	71	5.670G	72	5.623G
73	5.650G	74	5.333G	75	5.686G	76	5.271G
77	5.341G	78	5.397G	79	5.642G	80	5.483G
81	5.312G	82	5.295G	83	5.458G	84	5.660G
85	5.719G	86	5.403G	87	5.424G	88	5.338G
89	5.565G	90	5.532G	91	5.362G	92	5.517G
93	5.435G	94	5.323G	95	5.442G	96	5.447G
97	5.608G	98	5.566G	99	5.630G	100	5.687G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_07							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.330G	2	5.537G	3	5.661G	4	5.670G
5	5.551G	6	5.459G	7	5.558G	8	5.620G
9	5.355G	10	5.283G	11	5.622G	12	5.668G
13	5.485G	14	5.318G	15	5.393G	16	5.279G
17	5.634G	18	5.364G	19	5.611G	20	5.501G
21	5.656G	22	5.580G	23	5.569G	24	5.647G
25	5.627G	26	5.328G	27	5.658G	28	5.715G
29	5.553G	30	5.467G	31	5.707G	32	5.575G
33	5.556G	34	5.424G	35	5.593G	36	5.325G
37	5.678G	38	5.554G	39	5.386G	40	5.582G
41	5.446G	42	5.529G	43	5.304G	44	5.460G
45	5.289G	46	5.454G	47	5.373G	48	5.319G
49	5.510G	50	5.420G	51	5.426G	52	5.547G
53	5.310G	54	5.288G	55	5.278G	56	5.699G
57	5.299G	58	5.365G	59	5.681G	60	5.579G
61	5.530G	62	5.272G	63	5.465G	64	5.690G
65	5.519G	66	5.520G	67	5.486G	68	5.490G
69	5.705G	70	5.396G	71	5.392G	72	5.302G
73	5.401G	74	5.394G	75	5.717G	76	5.413G
77	5.480G	78	5.608G	79	5.280G	80	5.343G
81	5.301G	82	5.385G	83	5.709G	84	5.605G
85	5.478G	86	5.265G	87	5.435G	88	5.555G
89	5.412G	90	5.349G	91	5.679G	92	5.282G
93	5.303G	94	5.691G	95	5.523G	96	5.438G
97	5.587G	98	5.697G	99	5.723G	100	5.481G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_08							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.379G	2	5.258G	3	5.450G	4	5.700G
5	5.490G	6	5.472G	7	5.330G	8	5.515G
9	5.369G	10	5.724G	11	5.391G	12	5.583G
13	5.290G	14	5.497G	15	5.410G	16	5.546G
17	5.663G	18	5.562G	19	5.427G	20	5.495G
21	5.555G	22	5.594G	23	5.325G	24	5.615G
25	5.479G	26	5.331G	27	5.405G	28	5.282G
29	5.274G	30	5.392G	31	5.499G	32	5.348G
33	5.545G	34	5.321G	35	5.592G	36	5.281G
37	5.666G	38	5.680G	39	5.314G	40	5.436G
41	5.445G	42	5.638G	43	5.549G	44	5.569G
45	5.528G	46	5.595G	47	5.280G	48	5.277G
49	5.542G	50	5.653G	51	5.705G	52	5.504G
53	5.463G	54	5.533G	55	5.535G	56	5.604G
57	5.454G	58	5.418G	59	5.552G	60	5.475G
61	5.375G	62	5.506G	63	5.553G	64	5.622G
65	5.367G	66	5.697G	67	5.672G	68	5.409G
69	5.287G	70	5.307G	71	5.465G	72	5.677G
73	5.635G	74	5.693G	75	5.565G	76	5.457G
77	5.541G	78	5.251G	79	5.589G	80	5.650G
81	5.593G	82	5.485G	83	5.327G	84	5.707G
85	5.344G	86	5.618G	87	5.361G	88	5.377G
89	5.486G	90	5.522G	91	5.424G	92	5.532G
93	5.462G	94	5.425G	95	5.461G	96	5.520G
97	5.694G	98	5.455G	99	5.435G	100	5.304G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_09							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.724G	2	5.561G	3	5.319G	4	5.466G
5	5.696G	6	5.464G	7	5.268G	8	5.331G
9	5.471G	10	5.719G	11	5.488G	12	5.409G
13	5.655G	14	5.622G	15	5.632G	16	5.340G
17	5.353G	18	5.266G	19	5.420G	20	5.606G
21	5.678G	22	5.336G	23	5.662G	24	5.265G
25	5.570G	26	5.559G	27	5.364G	28	5.698G
29	5.615G	30	5.661G	31	5.406G	32	5.511G
33	5.712G	34	5.549G	35	5.282G	36	5.574G
37	5.394G	38	5.571G	39	5.412G	40	5.291G
41	5.605G	42	5.253G	43	5.482G	44	5.684G
45	5.528G	46	5.381G	47	5.452G	48	5.503G
49	5.295G	50	5.454G	51	5.680G	52	5.652G
53	5.557G	54	5.667G	55	5.546G	56	5.346G
57	5.280G	58	5.379G	59	5.514G	60	5.565G
61	5.352G	62	5.555G	63	5.637G	64	5.691G
65	5.461G	66	5.703G	67	5.609G	68	5.435G
69	5.423G	70	5.316G	71	5.425G	72	5.714G
73	5.444G	74	5.324G	75	5.517G	76	5.543G
77	5.608G	78	5.627G	79	5.611G	80	5.671G
81	5.568G	82	5.384G	83	5.328G	84	5.284G
85	5.600G	86	5.279G	87	5.313G	88	5.408G
89	5.613G	90	5.654G	91	5.668G	92	5.581G
93	5.372G	94	5.656G	95	5.648G	96	5.602G
97	5.251G	98	5.300G	99	5.695G	100	5.288G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_10							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.295G	2	5.524G	3	5.680G	4	5.580G
5	5.301G	6	5.350G	7	5.507G	8	5.397G
9	5.473G	10	5.265G	11	5.519G	12	5.495G
13	5.677G	14	5.627G	15	5.632G	16	5.339G
17	5.691G	18	5.396G	19	5.434G	20	5.531G
21	5.550G	22	5.454G	23	5.714G	24	5.429G
25	5.653G	26	5.642G	27	5.280G	28	5.413G
29	5.701G	30	5.298G	31	5.501G	32	5.459G
33	5.474G	34	5.415G	35	5.698G	36	5.372G
37	5.441G	38	5.667G	39	5.626G	40	5.320G
41	5.502G	42	5.693G	43	5.488G	44	5.403G
45	5.259G	46	5.345G	47	5.635G	48	5.498G
49	5.313G	50	5.406G	51	5.407G	52	5.404G
53	5.275G	54	5.699G	55	5.384G	56	5.645G
57	5.395G	58	5.716G	59	5.624G	60	5.439G
61	5.261G	62	5.567G	63	5.332G	64	5.565G
65	5.436G	66	5.695G	67	5.304G	68	5.363G
69	5.310G	70	5.609G	71	5.423G	72	5.593G
73	5.546G	74	5.461G	75	5.269G	76	5.518G
77	5.612G	78	5.483G	79	5.379G	80	5.255G
81	5.468G	82	5.517G	83	5.305G	84	5.661G
85	5.358G	86	5.443G	87	5.308G	88	5.414G
89	5.503G	90	5.267G	91	5.432G	92	5.282G
93	5.476G	94	5.575G	95	5.505G	96	5.602G
97	5.466G	98	5.646G	99	5.644G	100	5.290G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_11							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.356G	2	5.434G	3	5.492G	4	5.567G
5	5.420G	6	5.619G	7	5.325G	8	5.395G
9	5.310G	10	5.579G	11	5.717G	12	5.387G
13	5.432G	14	5.670G	15	5.366G	16	5.301G
17	5.566G	18	5.449G	19	5.415G	20	5.253G
21	5.371G	22	5.307G	23	5.537G	24	5.377G
25	5.275G	26	5.623G	27	5.373G	28	5.688G
29	5.515G	30	5.292G	31	5.589G	32	5.684G
33	5.442G	34	5.391G	35	5.455G	36	5.704G
37	5.676G	38	5.639G	39	5.634G	40	5.535G
41	5.482G	42	5.610G	43	5.413G	44	5.530G
45	5.419G	46	5.524G	47	5.283G	48	5.644G
49	5.570G	50	5.577G	51	5.521G	52	5.302G
53	5.709G	54	5.630G	55	5.364G	56	5.388G
57	5.259G	58	5.431G	59	5.675G	60	5.440G
61	5.648G	62	5.416G	63	5.580G	64	5.710G
65	5.484G	66	5.574G	67	5.411G	68	5.569G
69	5.718G	70	5.439G	71	5.549G	72	5.637G
73	5.465G	74	5.398G	75	5.486G	76	5.288G
77	5.361G	78	5.352G	79	5.629G	80	5.409G
81	5.532G	82	5.311G	83	5.638G	84	5.410G
85	5.592G	86	5.286G	87	5.551G	88	5.699G
89	5.392G	90	5.343G	91	5.418G	92	5.327G
93	5.397G	94	5.341G	95	5.477G	96	5.624G
97	5.269G	98	5.678G	99	5.284G	100	5.331G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_12							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.605G	2	5.431G	3	5.406G	4	5.449G
5	5.472G	6	5.671G	7	5.654G	8	5.310G
9	5.513G	10	5.413G	11	5.467G	12	5.517G
13	5.383G	14	5.336G	15	5.597G	16	5.721G
17	5.510G	18	5.301G	19	5.436G	20	5.698G
21	5.644G	22	5.489G	23	5.276G	24	5.679G
25	5.562G	26	5.322G	27	5.366G	28	5.303G
29	5.422G	30	5.601G	31	5.516G	32	5.690G
33	5.286G	34	5.594G	35	5.619G	36	5.714G
37	5.592G	38	5.602G	39	5.670G	40	5.323G
41	5.442G	42	5.283G	43	5.541G	44	5.691G
45	5.353G	46	5.302G	47	5.445G	48	5.314G
49	5.391G	50	5.685G	51	5.372G	52	5.552G
53	5.291G	54	5.443G	55	5.647G	56	5.399G
57	5.463G	58	5.267G	59	5.423G	60	5.561G
61	5.608G	62	5.662G	63	5.339G	64	5.462G
65	5.614G	66	5.414G	67	5.433G	68	5.533G
69	5.600G	70	5.609G	71	5.261G	72	5.559G
73	5.404G	74	5.669G	75	5.407G	76	5.699G
77	5.371G	78	5.639G	79	5.373G	80	5.696G
81	5.606G	82	5.532G	83	5.536G	84	5.359G
85	5.362G	86	5.683G	87	5.377G	88	5.656G
89	5.635G	90	5.256G	91	5.575G	92	5.722G
93	5.487G	94	5.688G	95	5.570G	96	5.435G
97	5.519G	98	5.394G	99	5.446G	100	5.380G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_13							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.697G	2	5.270G	3	5.640G	4	5.390G
5	5.647G	6	5.566G	7	5.356G	8	5.621G
9	5.305G	10	5.694G	11	5.599G	12	5.445G
13	5.569G	14	5.512G	15	5.610G	16	5.346G
17	5.600G	18	5.712G	19	5.349G	20	5.325G
21	5.686G	22	5.486G	23	5.457G	24	5.252G
25	5.503G	26	5.274G	27	5.614G	28	5.339G
29	5.277G	30	5.382G	31	5.715G	32	5.285G
33	5.624G	34	5.298G	35	5.258G	36	5.673G
37	5.433G	38	5.464G	39	5.375G	40	5.310G
41	5.478G	42	5.675G	43	5.548G	44	5.568G
45	5.380G	46	5.487G	47	5.458G	48	5.363G
49	5.441G	50	5.559G	51	5.514G	52	5.632G
53	5.283G	54	5.522G	55	5.421G	56	5.397G
57	5.680G	58	5.350G	59	5.368G	60	5.257G
61	5.670G	62	5.422G	63	5.362G	64	5.657G
65	5.592G	66	5.683G	67	5.518G	68	5.589G
69	5.672G	70	5.335G	71	5.507G	72	5.378G
73	5.294G	74	5.564G	75	5.571G	76	5.698G
77	5.314G	78	5.301G	79	5.410G	80	5.429G
81	5.473G	82	5.387G	83	5.588G	84	5.447G
85	5.724G	86	5.341G	87	5.692G	88	5.485G
89	5.477G	90	5.268G	91	5.594G	92	5.360G
93	5.663G	94	5.508G	95	5.583G	96	5.425G
97	5.554G	98	5.496G	99	5.687G	100	5.276G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_14							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.287G	2	5.355G	3	5.363G	4	5.327G
5	5.707G	6	5.350G	7	5.384G	8	5.489G
9	5.279G	10	5.426G	11	5.705G	12	5.298G
13	5.283G	14	5.290G	15	5.709G	16	5.472G
17	5.430G	18	5.584G	19	5.425G	20	5.695G
21	5.256G	22	5.594G	23	5.348G	24	5.275G
25	5.529G	26	5.633G	27	5.717G	28	5.614G
29	5.497G	30	5.251G	31	5.612G	32	5.261G
33	5.461G	34	5.518G	35	5.416G	36	5.447G
37	5.495G	38	5.468G	39	5.264G	40	5.531G
41	5.372G	42	5.361G	43	5.720G	44	5.267G
45	5.713G	46	5.666G	47	5.590G	48	5.663G
49	5.286G	50	5.593G	51	5.307G	52	5.706G
53	5.574G	54	5.484G	55	5.539G	56	5.424G
57	5.413G	58	5.428G	59	5.420G	60	5.514G
61	5.547G	62	5.647G	63	5.628G	64	5.620G
65	5.566G	66	5.631G	67	5.676G	68	5.389G
69	5.674G	70	5.719G	71	5.418G	72	5.630G
73	5.295G	74	5.314G	75	5.253G	76	5.649G
77	5.278G	78	5.679G	79	5.365G	80	5.551G
81	5.434G	82	5.288G	83	5.469G	84	5.606G
85	5.419G	86	5.537G	87	5.317G	88	5.608G
89	5.549G	90	5.451G	91	5.512G	92	5.381G
93	5.552G	94	5.622G	95	5.266G	96	5.376G
97	5.703G	98	5.687G	99	5.519G	100	5.710G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_15							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.415G	2	5.472G	3	5.553G	4	5.670G
5	5.698G	6	5.294G	7	5.689G	8	5.310G
9	5.376G	10	5.354G	11	5.680G	12	5.282G
13	5.432G	14	5.314G	15	5.307G	16	5.411G
17	5.518G	18	5.602G	19	5.562G	20	5.664G
21	5.388G	22	5.318G	23	5.528G	24	5.598G
25	5.529G	26	5.258G	27	5.507G	28	5.599G
29	5.385G	30	5.320G	31	5.325G	32	5.309G
33	5.555G	34	5.365G	35	5.489G	36	5.651G
37	5.690G	38	5.610G	39	5.372G	40	5.695G
41	5.291G	42	5.656G	43	5.556G	44	5.381G
45	5.479G	46	5.718G	47	5.492G	48	5.304G
49	5.397G	50	5.461G	51	5.357G	52	5.358G
53	5.442G	54	5.279G	55	5.621G	56	5.570G
57	5.452G	58	5.514G	59	5.561G	60	5.496G
61	5.505G	62	5.377G	63	5.371G	64	5.466G
65	5.632G	66	5.499G	67	5.336G	68	5.623G
69	5.409G	70	5.259G	71	5.559G	72	5.266G
73	5.407G	74	5.661G	75	5.401G	76	5.707G
77	5.305G	78	5.322G	79	5.395G	80	5.560G
81	5.444G	82	5.586G	83	5.717G	84	5.275G
85	5.352G	86	5.579G	87	5.606G	88	5.329G
89	5.453G	90	5.609G	91	5.337G	92	5.665G
93	5.697G	94	5.420G	95	5.470G	96	5.456G
97	5.448G	98	5.531G	99	5.274G	100	5.712G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_16							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.660G	2	5.521G	3	5.278G	4	5.385G
5	5.610G	6	5.634G	7	5.502G	8	5.355G
9	5.674G	10	5.568G	11	5.608G	12	5.320G
13	5.276G	14	5.308G	15	5.251G	16	5.579G
17	5.696G	18	5.567G	19	5.442G	20	5.368G
21	5.685G	22	5.393G	23	5.596G	24	5.417G
25	5.606G	26	5.462G	27	5.291G	28	5.698G
29	5.487G	30	5.507G	31	5.623G	32	5.383G
33	5.382G	34	5.590G	35	5.402G	36	5.413G
37	5.601G	38	5.407G	39	5.551G	40	5.414G
41	5.350G	42	5.441G	43	5.479G	44	5.388G
45	5.306G	46	5.643G	47	5.687G	48	5.519G
49	5.274G	50	5.361G	51	5.466G	52	5.597G
53	5.548G	54	5.403G	55	5.561G	56	5.488G
57	5.451G	58	5.529G	59	5.359G	60	5.689G
61	5.469G	62	5.325G	63	5.661G	64	5.433G
65	5.399G	66	5.279G	67	5.701G	68	5.265G
69	5.484G	70	5.459G	71	5.684G	72	5.316G
73	5.564G	74	5.339G	75	5.534G	76	5.613G
77	5.626G	78	5.483G	79	5.255G	80	5.495G
81	5.254G	82	5.438G	83	5.313G	84	5.571G
85	5.480G	86	5.711G	87	5.491G	88	5.644G
89	5.594G	90	5.357G	91	5.668G	92	5.482G
93	5.671G	94	5.343G	95	5.365G	96	5.615G
97	5.468G	98	5.530G	99	5.293G	100	5.481G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_17							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.426G	2	5.689G	3	5.405G	4	5.499G
5	5.599G	6	5.258G	7	5.669G	8	5.423G
9	5.480G	10	5.448G	11	5.273G	12	5.455G
13	5.675G	14	5.505G	15	5.707G	16	5.511G
17	5.720G	18	5.362G	19	5.375G	20	5.695G
21	5.627G	22	5.488G	23	5.574G	24	5.316G
25	5.420G	26	5.358G	27	5.572G	28	5.314G
29	5.390G	30	5.546G	31	5.369G	32	5.295G
33	5.678G	34	5.534G	35	5.686G	36	5.409G
37	5.400G	38	5.537G	39	5.542G	40	5.647G
41	5.632G	42	5.397G	43	5.283G	44	5.579G
45	5.611G	46	5.664G	47	5.608G	48	5.581G
49	5.271G	50	5.435G	51	5.470G	52	5.399G
53	5.324G	54	5.549G	55	5.270G	56	5.634G
57	5.384G	58	5.576G	59	5.284G	60	5.708G
61	5.540G	62	5.260G	63	5.331G	64	5.504G
65	5.366G	66	5.525G	67	5.299G	68	5.332G
69	5.523G	70	5.624G	71	5.543G	72	5.321G
73	5.472G	74	5.553G	75	5.379G	76	5.364G
77	5.684G	78	5.618G	79	5.635G	80	5.626G
81	5.717G	82	5.622G	83	5.679G	84	5.562G
85	5.388G	86	5.591G	87	5.381G	88	5.277G
89	5.323G	90	5.713G	91	5.360G	92	5.286G
93	5.585G	94	5.365G	95	5.353G	96	5.463G
97	5.601G	98	5.559G	99	5.673G	100	5.348G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_18							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.296G	2	5.717G	3	5.586G	4	5.326G
5	5.345G	6	5.387G	7	5.488G	8	5.703G
9	5.272G	10	5.605G	11	5.660G	12	5.471G
13	5.265G	14	5.348G	15	5.254G	16	5.579G
17	5.368G	18	5.576G	19	5.280G	20	5.328G
21	5.610G	22	5.308G	23	5.631G	24	5.663G
25	5.693G	26	5.282G	27	5.385G	28	5.457G
29	5.313G	30	5.593G	31	5.671G	32	5.569G
33	5.350G	34	5.475G	35	5.506G	36	5.684G
37	5.502G	38	5.338G	39	5.331G	40	5.705G
41	5.701G	42	5.618G	43	5.641G	44	5.450G
45	5.399G	46	5.553G	47	5.518G	48	5.672G
49	5.468G	50	5.465G	51	5.294G	52	5.390G
53	5.570G	54	5.279G	55	5.509G	56	5.649G
57	5.481G	58	5.698G	59	5.379G	60	5.573G
61	5.534G	62	5.437G	63	5.636G	64	5.690G
65	5.592G	66	5.404G	67	5.718G	68	5.406G
69	5.276G	70	5.523G	71	5.455G	72	5.484G
73	5.596G	74	5.568G	75	5.548G	76	5.408G
77	5.662G	78	5.312G	79	5.635G	80	5.720G
81	5.353G	82	5.697G	83	5.428G	84	5.515G
85	5.464G	86	5.341G	87	5.324G	88	5.250G
89	5.358G	90	5.640G	91	5.383G	92	5.398G
93	5.377G	94	5.346G	95	5.531G	96	5.402G
97	5.422G	98	5.688G	99	5.388G	100	5.565G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_19							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.541G	2	5.408G	3	5.459G	4	5.535G
5	5.371G	6	5.363G	7	5.421G	8	5.620G
9	5.685G	10	5.485G	11	5.264G	12	5.540G
13	5.309G	14	5.255G	15	5.690G	16	5.722G
17	5.511G	18	5.662G	19	5.530G	20	5.281G
21	5.647G	22	5.460G	23	5.678G	24	5.514G
25	5.652G	26	5.424G	27	5.618G	28	5.455G
29	5.436G	30	5.361G	31	5.438G	32	5.407G
33	5.533G	34	5.631G	35	5.434G	36	5.550G
37	5.512G	38	5.446G	39	5.605G	40	5.278G
41	5.648G	42	5.667G	43	5.299G	44	5.349G
45	5.705G	46	5.406G	47	5.537G	48	5.322G
49	5.564G	50	5.266G	51	5.606G	52	5.415G
53	5.622G	54	5.555G	55	5.330G	56	5.479G
57	5.576G	58	5.566G	59	5.709G	60	5.274G
61	5.328G	62	5.724G	63	5.665G	64	5.400G
65	5.544G	66	5.487G	67	5.366G	68	5.654G
69	5.625G	70	5.617G	71	5.293G	72	5.720G
73	5.591G	74	5.312G	75	5.616G	76	5.589G
77	5.704G	78	5.476G	79	5.682G	80	5.472G
81	5.465G	82	5.418G	83	5.262G	84	5.375G
85	5.571G	86	5.333G	87	5.416G	88	5.610G
89	5.686G	90	5.552G	91	5.351G	92	5.276G
93	5.290G	94	5.489G	95	5.337G	96	5.456G
97	5.258G	98	5.305G	99	5.268G	100	5.376G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_20							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.630G	2	5.643G	3	5.301G	4	5.638G
5	5.724G	6	5.294G	7	5.497G	8	5.357G
9	5.300G	10	5.530G	11	5.657G	12	5.373G
13	5.349G	14	5.617G	15	5.613G	16	5.404G
17	5.604G	18	5.590G	19	5.607G	20	5.553G
21	5.412G	22	5.416G	23	5.471G	24	5.717G
25	5.456G	26	5.673G	27	5.533G	28	5.520G
29	5.329G	30	5.482G	31	5.589G	32	5.427G
33	5.252G	34	5.529G	35	5.477G	36	5.446G
37	5.492G	38	5.444G	39	5.414G	40	5.407G
41	5.699G	42	5.577G	43	5.272G	44	5.523G
45	5.518G	46	5.484G	47	5.449G	48	5.480G
49	5.677G	50	5.280G	51	5.251G	52	5.608G
53	5.361G	54	5.356G	55	5.509G	56	5.302G
57	5.678G	58	5.279G	59	5.616G	60	5.455G
61	5.671G	62	5.262G	63	5.345G	64	5.700G
65	5.267G	66	5.383G	67	5.531G	68	5.273G
69	5.505G	70	5.698G	71	5.476G	72	5.265G
73	5.303G	74	5.556G	75	5.507G	76	5.322G
77	5.649G	78	5.595G	79	5.496G	80	5.620G
81	5.546G	82	5.560G	83	5.674G	84	5.655G
85	5.371G	86	5.593G	87	5.284G	88	5.325G
89	5.591G	90	5.334G	91	5.366G	92	5.400G
93	5.295G	94	5.564G	95	5.547G	96	5.437G
97	5.318G	98	5.499G	99	5.428G	100	5.627G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_21							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.378G	2	5.577G	3	5.515G	4	5.330G
5	5.337G	6	5.723G	7	5.500G	8	5.409G
9	5.282G	10	5.477G	11	5.605G	12	5.574G
13	5.517G	14	5.670G	15	5.589G	16	5.709G
17	5.672G	18	5.485G	19	5.625G	20	5.452G
21	5.416G	22	5.263G	23	5.442G	24	5.680G
25	5.537G	26	5.602G	27	5.289G	28	5.569G
29	5.294G	30	5.369G	31	5.335G	32	5.699G
33	5.663G	34	5.533G	35	5.420G	36	5.449G
37	5.313G	38	5.691G	39	5.354G	40	5.706G
41	5.403G	42	5.674G	43	5.542G	44	5.407G
45	5.509G	46	5.649G	47	5.592G	48	5.440G
49	5.464G	50	5.457G	51	5.471G	52	5.435G
53	5.327G	54	5.257G	55	5.658G	56	5.549G
57	5.563G	58	5.610G	59	5.269G	60	5.584G
61	5.290G	62	5.624G	63	5.596G	64	5.688G
65	5.710G	66	5.359G	67	5.514G	68	5.492G
69	5.451G	70	5.254G	71	5.272G	72	5.651G
73	5.441G	74	5.662G	75	5.321G	76	5.453G
77	5.380G	78	5.647G	79	5.261G	80	5.634G
81	5.656G	82	5.552G	83	5.567G	84	5.559G
85	5.376G	86	5.428G	87	5.276G	88	5.715G
89	5.642G	90	5.356G	91	5.490G	92	5.402G
93	5.306G	94	5.299G	95	5.502G	96	5.616G
97	5.713G	98	5.273G	99	5.481G	100	5.322G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_22							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.592G	2	5.529G	3	5.686G	4	5.318G
5	5.319G	6	5.551G	7	5.287G	8	5.685G
9	5.713G	10	5.488G	11	5.410G	12	5.633G
13	5.276G	14	5.431G	15	5.552G	16	5.387G
17	5.307G	18	5.363G	19	5.355G	20	5.724G
21	5.267G	22	5.687G	23	5.628G	24	5.466G
25	5.350G	26	5.705G	27	5.286G	28	5.573G
29	5.440G	30	5.277G	31	5.549G	32	5.561G
33	5.495G	34	5.567G	35	5.298G	36	5.712G
37	5.534G	38	5.505G	39	5.500G	40	5.378G
41	5.610G	42	5.635G	43	5.530G	44	5.427G
45	5.703G	46	5.272G	47	5.275G	48	5.356G
49	5.386G	50	5.453G	51	5.709G	52	5.415G
53	5.344G	54	5.649G	55	5.474G	56	5.560G
57	5.259G	58	5.330G	59	5.264G	60	5.652G
61	5.270G	62	5.342G	63	5.306G	64	5.305G
65	5.420G	66	5.301G	67	5.278G	68	5.688G
69	5.603G	70	5.460G	71	5.575G	72	5.283G
73	5.437G	74	5.284G	75	5.629G	76	5.327G
77	5.698G	78	5.594G	79	5.463G	80	5.607G
81	5.372G	82	5.510G	83	5.256G	84	5.481G
85	5.349G	86	5.326G	87	5.310G	88	5.434G
89	5.498G	90	5.622G	91	5.383G	92	5.320G
93	5.569G	94	5.279G	95	5.333G	96	5.535G
97	5.394G	98	5.458G	99	5.576G	100	5.617G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_23							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.603G	2	5.611G	3	5.535G	4	5.594G
5	5.564G	6	5.545G	7	5.358G	8	5.565G
9	5.578G	10	5.376G	11	5.569G	12	5.359G
13	5.294G	14	5.293G	15	5.303G	16	5.269G
17	5.309G	18	5.466G	19	5.602G	20	5.277G
21	5.304G	22	5.518G	23	5.451G	24	5.553G
25	5.323G	26	5.454G	27	5.556G	28	5.622G
29	5.364G	30	5.504G	31	5.310G	32	5.587G
33	5.464G	34	5.530G	35	5.679G	36	5.291G
37	5.334G	38	5.506G	39	5.474G	40	5.667G
41	5.326G	42	5.385G	43	5.324G	44	5.475G
45	5.391G	46	5.508G	47	5.476G	48	5.332G
49	5.672G	50	5.467G	51	5.452G	52	5.662G
53	5.572G	54	5.350G	55	5.341G	56	5.437G
57	5.419G	58	5.583G	59	5.311G	60	5.434G
61	5.718G	62	5.647G	63	5.550G	64	5.349G
65	5.318G	66	5.558G	67	5.664G	68	5.305G
69	5.695G	70	5.708G	71	5.706G	72	5.438G
73	5.268G	74	5.456G	75	5.356G	76	5.255G
77	5.626G	78	5.636G	79	5.296G	80	5.509G
81	5.473G	82	5.360G	83	5.366G	84	5.598G
85	5.724G	86	5.274G	87	5.580G	88	5.392G
89	5.481G	90	5.656G	91	5.592G	92	5.637G
93	5.275G	94	5.257G	95	5.301G	96	5.523G
97	5.440G	98	5.551G	99	5.343G	100	5.371G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_24							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.628G	2	5.490G	3	5.407G	4	5.694G
5	5.398G	6	5.574G	7	5.646G	8	5.340G
9	5.644G	10	5.296G	11	5.502G	12	5.334G
13	5.362G	14	5.500G	15	5.506G	16	5.488G
17	5.596G	18	5.448G	19	5.680G	20	5.497G
21	5.712G	22	5.367G	23	5.428G	24	5.383G
25	5.283G	26	5.685G	27	5.656G	28	5.263G
29	5.524G	30	5.453G	31	5.373G	32	5.372G
33	5.484G	34	5.496G	35	5.443G	36	5.505G
37	5.556G	38	5.477G	39	5.613G	40	5.523G
41	5.665G	42	5.491G	43	5.336G	44	5.254G
45	5.688G	46	5.561G	47	5.302G	48	5.578G
49	5.577G	50	5.698G	51	5.586G	52	5.257G
53	5.509G	54	5.306G	55	5.636G	56	5.573G
57	5.659G	58	5.275G	59	5.511G	60	5.267G
61	5.390G	62	5.435G	63	5.585G	64	5.451G
65	5.576G	66	5.412G	67	5.549G	68	5.684G
69	5.424G	70	5.650G	71	5.537G	72	5.534G
73	5.564G	74	5.460G	75	5.329G	76	5.364G
77	5.658G	78	5.343G	79	5.686G	80	5.554G
81	5.457G	82	5.284G	83	5.472G	84	5.492G
85	5.706G	86	5.584G	87	5.444G	88	5.558G
89	5.522G	90	5.525G	91	5.583G	92	5.703G
93	5.274G	94	5.478G	95	5.512G	96	5.307G
97	5.389G	98	5.290G	99	5.295G	100	5.436G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_25							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.301G	2	5.321G	3	5.263G	4	5.314G
5	5.669G	6	5.678G	7	5.521G	8	5.419G
9	5.457G	10	5.548G	11	5.412G	12	5.362G
13	5.261G	14	5.425G	15	5.545G	16	5.630G
17	5.598G	18	5.462G	19	5.404G	20	5.670G
21	5.632G	22	5.262G	23	5.342G	24	5.617G
25	5.621G	26	5.483G	27	5.481G	28	5.564G
29	5.575G	30	5.626G	31	5.559G	32	5.485G
33	5.698G	34	5.584G	35	5.622G	36	5.620G
37	5.702G	38	5.715G	39	5.429G	40	5.649G
41	5.700G	42	5.450G	43	5.605G	44	5.692G
45	5.561G	46	5.370G	47	5.573G	48	5.660G
49	5.667G	50	5.558G	51	5.343G	52	5.683G
53	5.543G	54	5.266G	55	5.255G	56	5.388G
57	5.292G	58	5.610G	59	5.611G	60	5.594G
61	5.580G	62	5.340G	63	5.586G	64	5.451G
65	5.504G	66	5.433G	67	5.284G	68	5.478G
69	5.345G	70	5.657G	71	5.662G	72	5.488G
73	5.680G	74	5.445G	75	5.252G	76	5.365G
77	5.501G	78	5.618G	79	5.653G	80	5.271G
81	5.358G	82	5.449G	83	5.460G	84	5.310G
85	5.643G	86	5.291G	87	5.633G	88	5.496G
89	5.576G	90	5.709G	91	5.646G	92	5.423G
93	5.353G	94	5.535G	95	5.486G	96	5.392G
97	5.505G	98	5.596G	99	5.537G	100	5.265G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_26							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.625G	2	5.698G	3	5.280G	4	5.719G
5	5.653G	6	5.445G	7	5.516G	8	5.297G
9	5.432G	10	5.450G	11	5.519G	12	5.448G
13	5.597G	14	5.364G	15	5.473G	16	5.538G
17	5.276G	18	5.466G	19	5.316G	20	5.639G
21	5.463G	22	5.578G	23	5.643G	24	5.327G
25	5.438G	26	5.580G	27	5.455G	28	5.549G
29	5.701G	30	5.476G	31	5.435G	32	5.338G
33	5.431G	34	5.517G	35	5.650G	36	5.383G
37	5.396G	38	5.508G	39	5.671G	40	5.331G
41	5.442G	42	5.627G	43	5.636G	44	5.680G
45	5.675G	46	5.679G	47	5.395G	48	5.258G
49	5.582G	50	5.268G	51	5.645G	52	5.539G
53	5.329G	54	5.483G	55	5.563G	56	5.613G
57	5.510G	58	5.673G	59	5.567G	60	5.256G
61	5.618G	62	5.678G	63	5.570G	64	5.314G
65	5.312G	66	5.608G	67	5.596G	68	5.595G
69	5.345G	70	5.359G	71	5.456G	72	5.326G
73	5.311G	74	5.488G	75	5.697G	76	5.710G
77	5.427G	78	5.464G	79	5.507G	80	5.351G
81	5.558G	82	5.704G	83	5.459G	84	5.324G
85	5.495G	86	5.440G	87	5.319G	88	5.398G
89	5.689G	90	5.353G	91	5.499G	92	5.521G
93	5.615G	94	5.528G	95	5.323G	96	5.285G
97	5.393G	98	5.658G	99	5.646G	100	5.424G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_27							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.563G	2	5.675G	3	5.636G	4	5.556G
5	5.724G	6	5.252G	7	5.521G	8	5.587G
9	5.713G	10	5.357G	11	5.417G	12	5.500G
13	5.531G	14	5.499G	15	5.721G	16	5.659G
17	5.652G	18	5.622G	19	5.287G	20	5.612G
21	5.480G	22	5.336G	23	5.694G	24	5.410G
25	5.507G	26	5.528G	27	5.669G	28	5.398G
29	5.557G	30	5.314G	31	5.586G	32	5.638G
33	5.678G	34	5.640G	35	5.703G	36	5.414G
37	5.399G	38	5.501G	39	5.372G	40	5.519G
41	5.383G	42	5.683G	43	5.540G	44	5.276G
45	5.321G	46	5.432G	47	5.711G	48	5.278G
49	5.368G	50	5.548G	51	5.681G	52	5.720G
53	5.530G	54	5.455G	55	5.293G	56	5.580G
57	5.551G	58	5.718G	59	5.384G	60	5.302G
61	5.421G	62	5.418G	63	5.693G	64	5.447G
65	5.426G	66	5.506G	67	5.567G	68	5.359G
69	5.344G	70	5.327G	71	5.374G	72	5.478G
73	5.631G	74	5.305G	75	5.440G	76	5.477G
77	5.423G	78	5.422G	79	5.362G	80	5.685G
81	5.406G	82	5.430G	83	5.564G	84	5.581G
85	5.303G	86	5.539G	87	5.262G	88	5.407G
89	5.309G	90	5.630G	91	5.297G	92	5.546G
93	5.367G	94	5.583G	95	5.326G	96	5.463G
97	5.381G	98	5.288G	99	5.364G	100	5.464G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_28							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.274G	2	5.676G	3	5.418G	4	5.639G
5	5.300G	6	5.563G	7	5.668G	8	5.365G
9	5.629G	10	5.541G	11	5.680G	12	5.585G
13	5.613G	14	5.646G	15	5.587G	16	5.495G
17	5.528G	18	5.706G	19	5.523G	20	5.364G
21	5.505G	22	5.614G	23	5.309G	24	5.644G
25	5.443G	26	5.299G	27	5.297G	28	5.605G
29	5.471G	30	5.262G	31	5.497G	32	5.398G
33	5.712G	34	5.361G	35	5.530G	36	5.532G
37	5.558G	38	5.608G	39	5.513G	40	5.607G
41	5.451G	42	5.456G	43	5.535G	44	5.351G
45	5.589G	46	5.561G	47	5.609G	48	5.388G
49	5.342G	50	5.447G	51	5.652G	52	5.276G
53	5.440G	54	5.370G	55	5.637G	56	5.406G
57	5.521G	58	5.292G	59	5.721G	60	5.573G
61	5.334G	62	5.371G	63	5.623G	64	5.301G
65	5.321G	66	5.437G	67	5.534G	68	5.512G
69	5.713G	70	5.269G	71	5.323G	72	5.468G
73	5.466G	74	5.415G	75	5.567G	76	5.562G
77	5.723G	78	5.465G	79	5.662G	80	5.378G
81	5.368G	82	5.431G	83	5.517G	84	5.664G
85	5.501G	86	5.285G	87	5.375G	88	5.434G
89	5.367G	90	5.670G	91	5.685G	92	5.531G
93	5.253G	94	5.336G	95	5.632G	96	5.335G
97	5.475G	98	5.618G	99	5.332G	100	5.404G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_29							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.307G	2	5.257G	3	5.600G	4	5.286G
5	5.561G	6	5.360G	7	5.698G	8	5.344G
9	5.523G	10	5.603G	11	5.477G	12	5.679G
13	5.461G	14	5.373G	15	5.647G	16	5.695G
17	5.675G	18	5.500G	19	5.259G	20	5.656G
21	5.260G	22	5.607G	23	5.266G	24	5.573G
25	5.604G	26	5.438G	27	5.485G	28	5.683G
29	5.562G	30	5.486G	31	5.631G	32	5.357G
33	5.539G	34	5.720G	35	5.298G	36	5.468G
37	5.339G	38	5.623G	39	5.636G	40	5.723G
41	5.480G	42	5.295G	43	5.383G	44	5.313G
45	5.579G	46	5.569G	47	5.283G	48	5.503G
49	5.544G	50	5.261G	51	5.349G	52	5.716G
53	5.594G	54	5.715G	55	5.399G	56	5.505G
57	5.710G	58	5.472G	59	5.548G	60	5.535G
61	5.630G	62	5.587G	63	5.290G	64	5.502G
65	5.687G	66	5.616G	67	5.363G	68	5.314G
69	5.324G	70	5.584G	71	5.692G	72	5.565G
73	5.387G	74	5.619G	75	5.676G	76	5.672G
77	5.513G	78	5.455G	79	5.719G	80	5.300G
81	5.370G	82	5.431G	83	5.724G	84	5.557G
85	5.287G	86	5.525G	87	5.353G	88	5.451G
89	5.369G	90	5.653G	91	5.550G	92	5.641G
93	5.612G	94	5.488G	95	5.483G	96	5.453G
97	5.490G	98	5.685G	99	5.386G	100	5.712G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_30							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.268G	2	5.357G	3	5.423G	4	5.627G
5	5.439G	6	5.581G	7	5.704G	8	5.315G
9	5.292G	10	5.318G	11	5.440G	12	5.271G
13	5.611G	14	5.350G	15	5.395G	16	5.269G
17	5.697G	18	5.596G	19	5.426G	20	5.363G
21	5.511G	22	5.261G	23	5.595G	24	5.298G
25	5.487G	26	5.666G	27	5.278G	28	5.566G
29	5.582G	30	5.606G	31	5.546G	32	5.417G
33	5.401G	34	5.563G	35	5.565G	36	5.652G
37	5.359G	38	5.460G	39	5.339G	40	5.406G
41	5.583G	42	5.673G	43	5.479G	44	5.333G
45	5.400G	46	5.714G	47	5.617G	48	5.253G
49	5.702G	50	5.373G	51	5.483G	52	5.360G
53	5.707G	54	5.601G	55	5.285G	56	5.513G
57	5.326G	58	5.355G	59	5.470G	60	5.695G
61	5.390G	62	5.520G	63	5.647G	64	5.411G
65	5.624G	66	5.625G	67	5.660G	68	5.545G
69	5.604G	70	5.598G	71	5.485G	72	5.615G
73	5.667G	74	5.338G	75	5.344G	76	5.491G
77	5.590G	78	5.482G	79	5.410G	80	5.564G
81	5.508G	82	5.719G	83	5.490G	84	5.464G
85	5.378G	86	5.699G	87	5.284G	88	5.593G
89	5.608G	90	5.293G	91	5.618G	92	5.530G
93	5.259G	94	5.430G	95	5.644G	96	5.717G
97	5.540G	98	5.711G	99	5.722G	100	5.515G