

DFS TEST REPORT

REPORT NO.: RF950707H06A

MODEL NO.: WMP-D18

RECEIVED: July 07, 2006

TESTED: July 18, 2006

ISSUED: July 23, 2007

APPLICANT: Alpha Networks Inc.

ADDRESS: No.8 Li-shing 7th Rd., Science-based Industrial
Park, Hsinchu, Taiwan, R.O.C.

ISSUED BY: Advance Data Technology Corporation

TEST LOCATION: No. 81-1, Lu Liao Keng, 9 Ling, Wu Lung
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1. CERTIFICATION

PRODUCT: IEEE 802.11a MiniPCI Card
BRAND NAME: Alpha
MODEL NO.: WMP-D18
TEST SAMPLE: ENGINEERING SAMPLE
TESTED: July 18, 2007
APPLICANT: Alpha Networks Inc.
STANDARDS: FCC Part 15, Subpart E (Section 15.407)
FCC 06-96

The above equipment (Model: WMP-D18) have been tested by **Advance Data Technology Corporation**, 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 : Claire Kuan , **DATE:** July 23, 2007
(Claire Kuan, Specialist)

TECHNICAL ACCEPTANCE : Hank Chung , **DATE:** July 23, 2007
Responsible for RF (Hank Chung, Deputy Manager)

APPROVED BY : May Chen , **DATE:** July 23, 2007
(May Chen, Deputy Manager)

2. TEST REQUIREMENT

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 1: Applicability of DFS requirements prior to use a channel

Requirement	Operational Mode		
	Master	Client without radar detection	Client with radar detection
Non-Occupancy Period	ü	Not required	ü
DFS Detection Threshold	ü	Not required	ü
Channel Availability Check Time	ü	Not required	Not required
Uniform Spreading	ü	Not required	Not required
U-NII Detection Bandwidth	ü	Not required	ü

Table 2: Applicability of DFS requirements during normal operation.

Requirement	Operational Mode		
	Master	Client without radar detection	Client with radar detection
DFS Detection Threshold	ü	Not required	ü
Channel Closing Transmission Time	ü	ü	ü
Channel Move Time	ü	ü	ü
U-NII Detection Bandwidth	ü	Not required	ü

2.1 OPERATING FREQUENCY OF U-NII DEVICE

Table 3: Operating frequency range of UUT.

Operational Mode	Operating Frequency Range	
	5250~5350MHz	5470~5725MHz
Master	ü	ü
Client without radar detection	Not Apply	Not Apply
Client with radar detection	Not Apply	Not Apply

2.2 TEST LIMITS AND RADAR SIGNAL PARAMETERS

DETECTION THRESHOLD VALUES

Table 4: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection.

Maximum Transmit Power	Value (See Notes 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 5: 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 6: 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 7: 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 8: 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

3. GENERAL INFORMATION

3.1 TEST INSTRUMENTS

Table 9: Test instruments list.

DESCRIPTION & MANUFACTURER	MODEL NO.	BRAND	CALIBRATED UNTIL
R&S Spectrum analyzer	FSP40	R&S	Aug. 15, 2007
Signal generator	8645A	Agilent	May. 26, 2008
Oscilloscope	TDS 5104	Tektronix	Apr. 05. 2008

3.2 DESCRIPTION OF SUPPORT UNITS

Table 10: Support Unit information.

No.	Product	Brand	Model No.	ID	Spec.
1	IEEE 802.11a/b/g Access Point	Alpha	DWL-7700AP	N/A	Inside with WMP-D18
2	IEEE 802.11a/b/g Cardbus	ATHEROS	AR5002X	-	-

3.3 SOFTWARE AND FIRMWARE

Table 11: The software/firmware version for U-NII device.

No.	Product	Model No.	Software/Firmware Version
1	IEEE 802.11a/b/g Access Point	DWL-7700AP	V3.10bate01(DFS2)
2	IEEE 802.11a/b/g Cardbus	AR5002X	AR5002 11/30/2006,2.0.0.117

3.4 DESCRIPTION OF AVAILABLE ANTENNAS

Table 12: Antenna list.

Ant NO.	Antenna	Type	Operation Frequency Range	Max. Gain(dBi)	Remark
1	SAA04-220080	Dipole	5.15 – 5.85 GHz	5	Cable loss 1.8dB; Surge Arrester Loss: 0.8dB

3.5 MAXIMUM AND MINIMUM CONDUCTED POWER

Table 13: The measured conducted output power.

Ant NO.	Frequency Band(MHZ)	MAX. Power		MIN. Power	
		Output Power(dBm)	Output Power(mW)	Output Power(dBm)	Output Power(mW)
1	5250~5350MHz	21.85	153.1087462	14.28	26.79168325
1	5470~5725MHz	18.06	63.97348355	10.54	11.32400363

3.6 MAXIMUM AND MINIMUM E.I.R.P. POWER

Table 14: The E.I.R.P output power list.

Ant NO.	Frequency Band(MHZ)	MAX. Power		MIN. Power	
		Output Power(dBm)	Output Power(mW)	Output Power(dBm)	Output Power(mW)
1	5250~5350MHz	24.25	266.072506	16.68	46.55860935
1	5470~5725MHz	20.46	111.1731727	12.94	19.6788629

3.7 STATEMENT OF MANUFACTURER

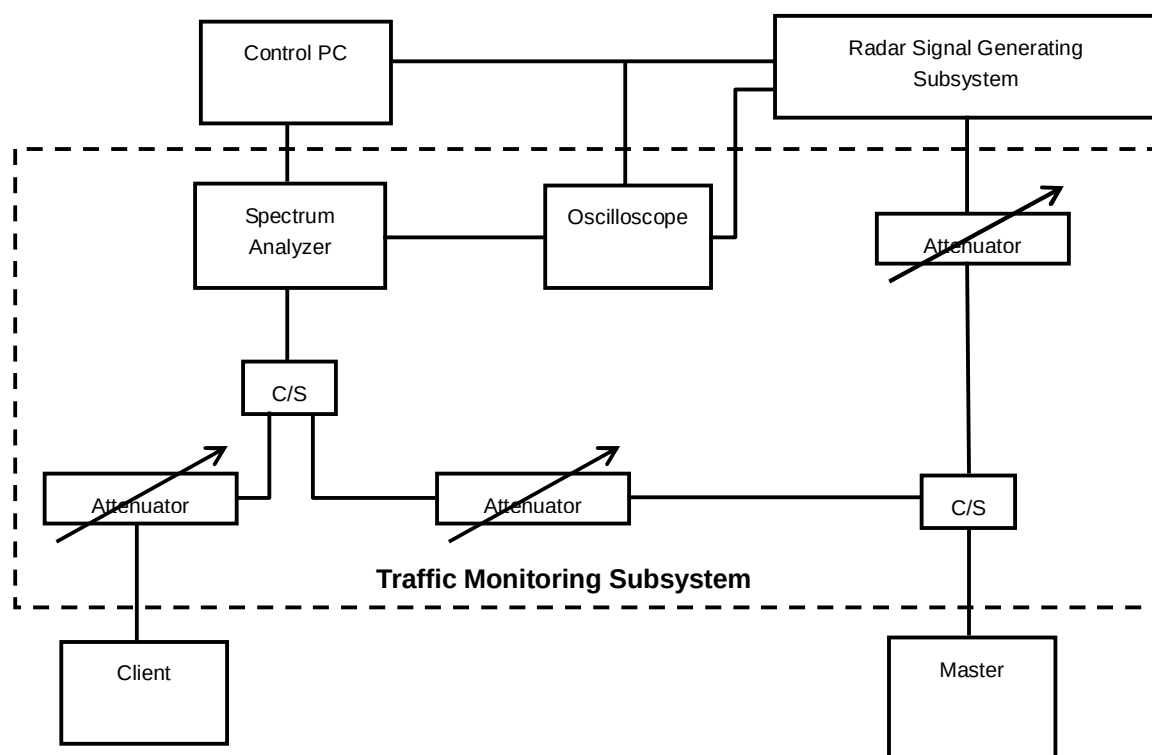
Manufacturer statement confirming that information regarding the parameters of the detected Radar Waveforms is not available to the end user. **And the device doesn't have Ad Hoc mode on DFS frequency band.**

4. TEST PROCEDURE

4.1 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 6, 7 and 8. The traffic monitoring subsystem is specified to the type of unit under test (UUT).

Conducted setup configuration of ADT DFS Measurement System



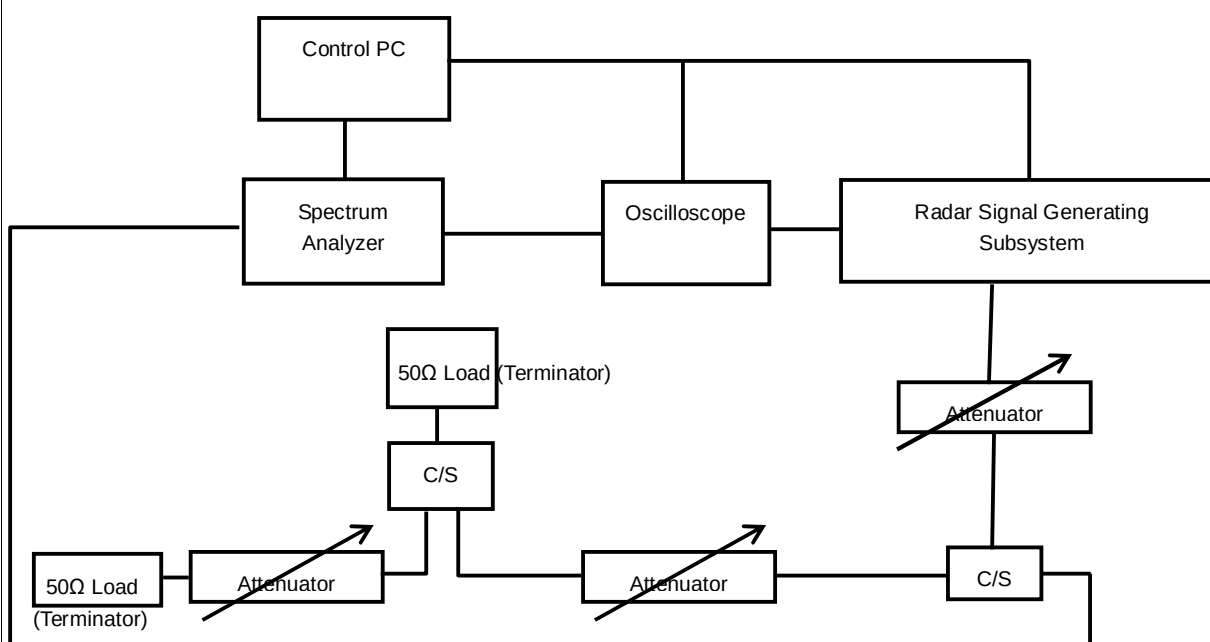
The test transmission will always be from the Master Device to the Client Device. While the Client device is set up to associate with the Master device and play the MPEG file (6 y Magic Hours) from Master device, the designated MPEG test file and instructions are located at:

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

4.2 CALIBRATION OF DFS DETECTION THRESHOLD LEVEL:

The measured channel is 5500MHz. The radar signal was the same as transmitted channels, and injected into the antenna port of AP (master) , measured the channel closing transmission time and channel move time. The required detection threshold is $-60.6\text{dBm} (= -64 + 1 + (5 - 1.8 - 0.8))\text{dBm}$. The calibrated conducted detection threshold level is set to -61.6dBm . The tested level is lower than required level hence it provides margin to the limit.

Conducted setup configuration of Calibration of DFS Detection Threshold Level

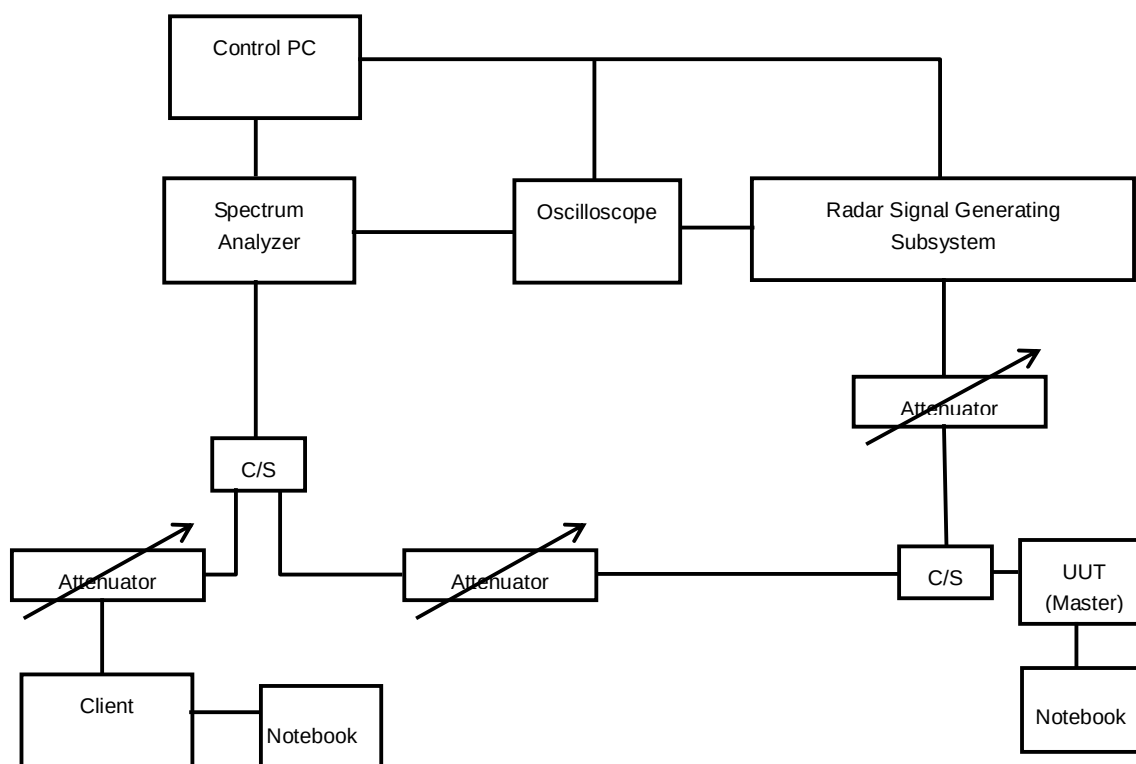


4.3 DEVIATION FROM TEST STANDARD

No deviation.

4.4 CONDUCTED TEST SETUP CONFIGURATION

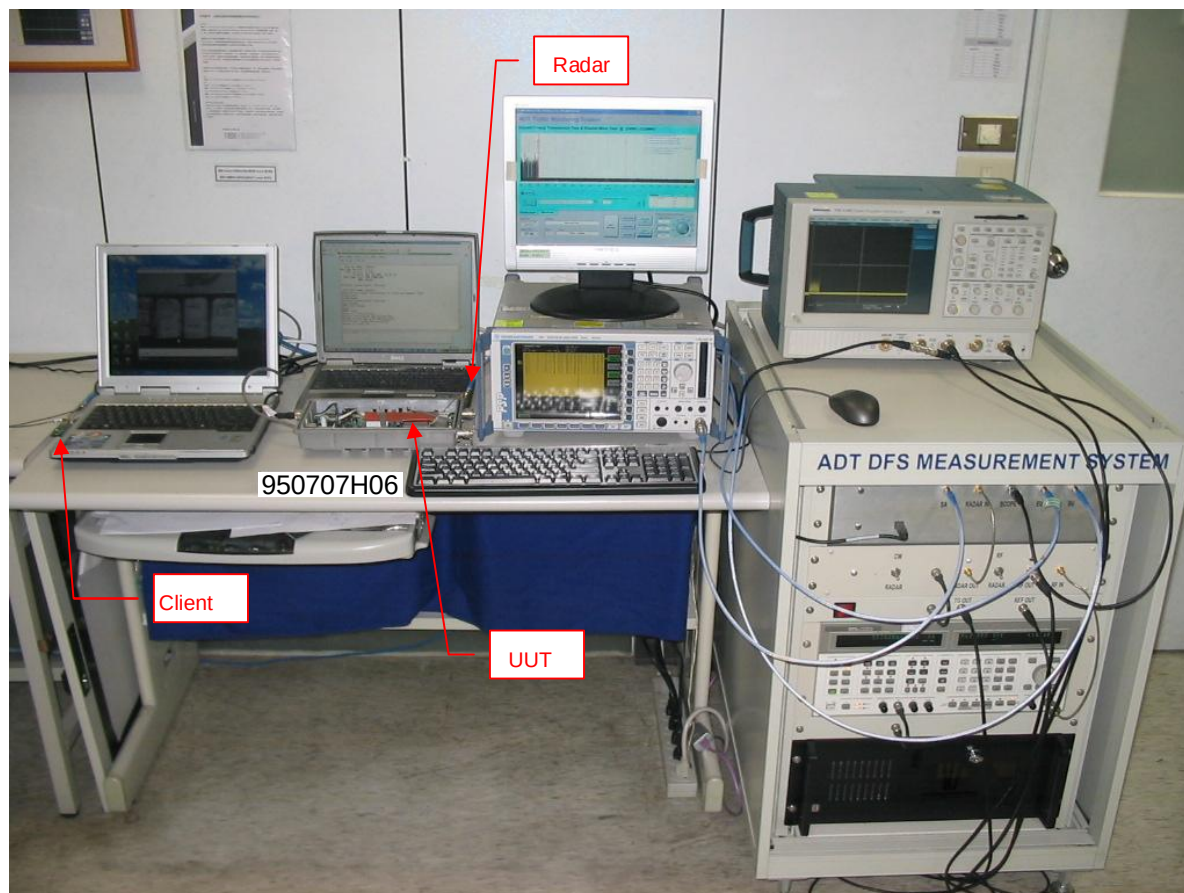
Master mode (Radar injected into Master)



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

4.5 CONDUCTED TEST SETUP PHOTO

Set UUT as Master mode (Radar injected into Master)



5. SUMMARY OF TEST RESULTS

5.1 LIST OF MEASUREMENTS

5.1.1 THE UUT IS CAPABLE OF OPERATING AS A MASTER.

Clause	Test Parameter	Remarks	Pass/Fail
15.407	DFS Detection Threshold	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
15.407	U-NII Detection Bandwidth	Applicable	Pass

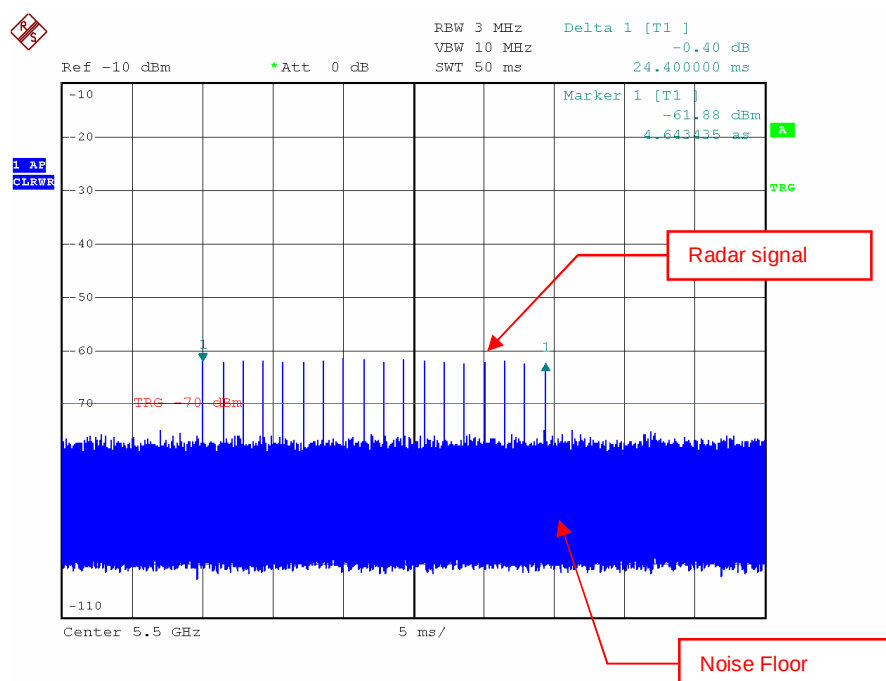
5.2 DFS TEST RESULTS

5.2.1 THE UUT IS A U-NII DEVICE OPERATING IN MASTER MODE.

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

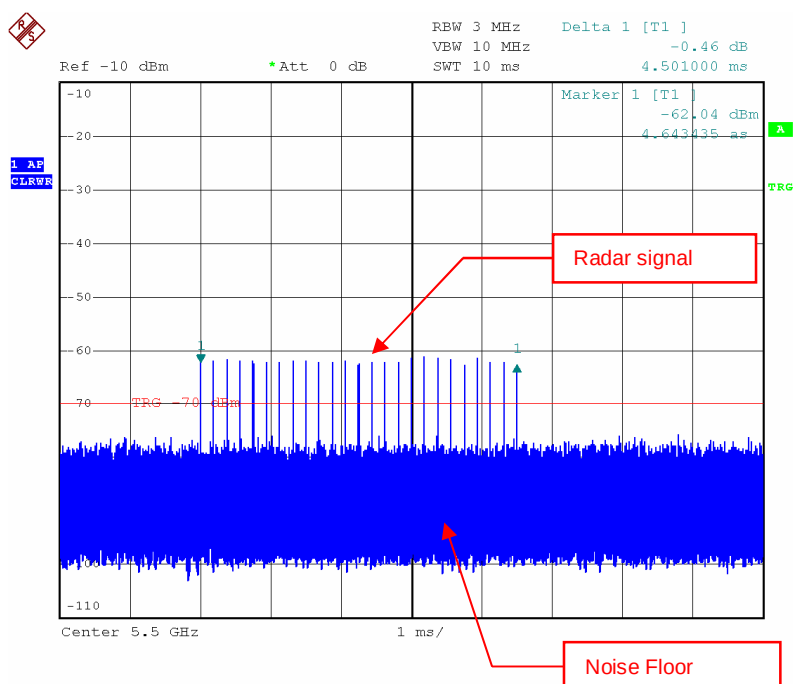
5.2.1.1 DFS DETECTION THRESHOLD

For a detection threshold level of -64dBm and the Master antenna gain is 5dBi . The Required detection threshold is -60.6dBm ($= -64 + 1 + (5 - 1.8 - 0.8)\text{dBm}$). The conducted radar burst level is set to -61.6dBm . The tested level is lower than required level hence it provides margin to the limit.



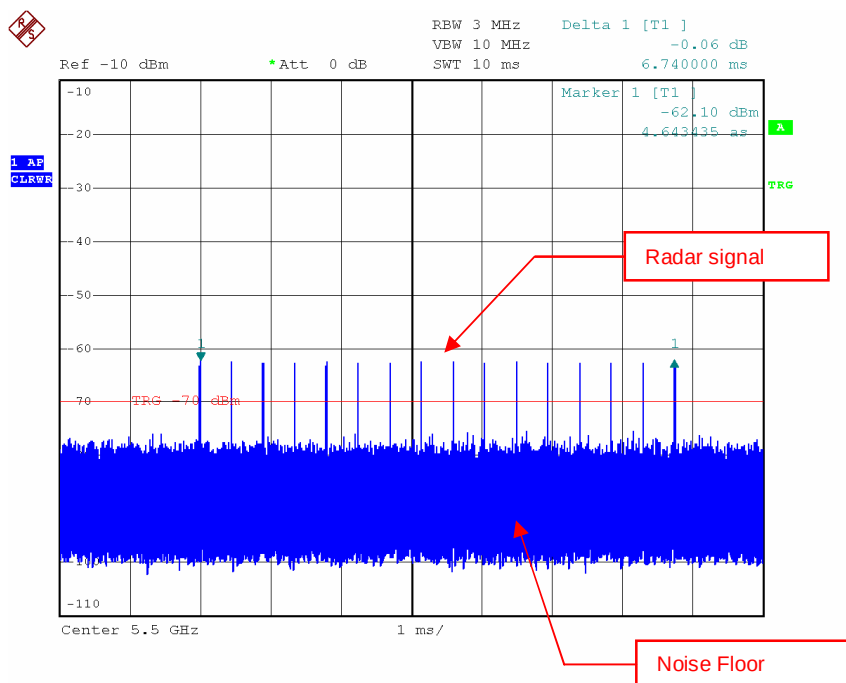
Date: 22.MAY.2007 01:28:25

Radar Signal 1



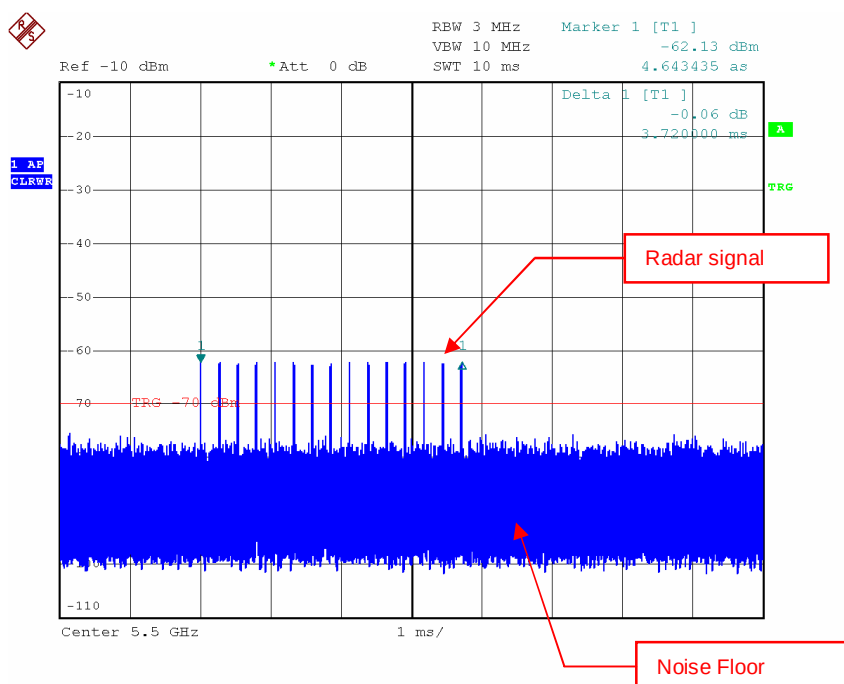
Date: 22.MAY.2007 01:31:26

Radar Signal 2



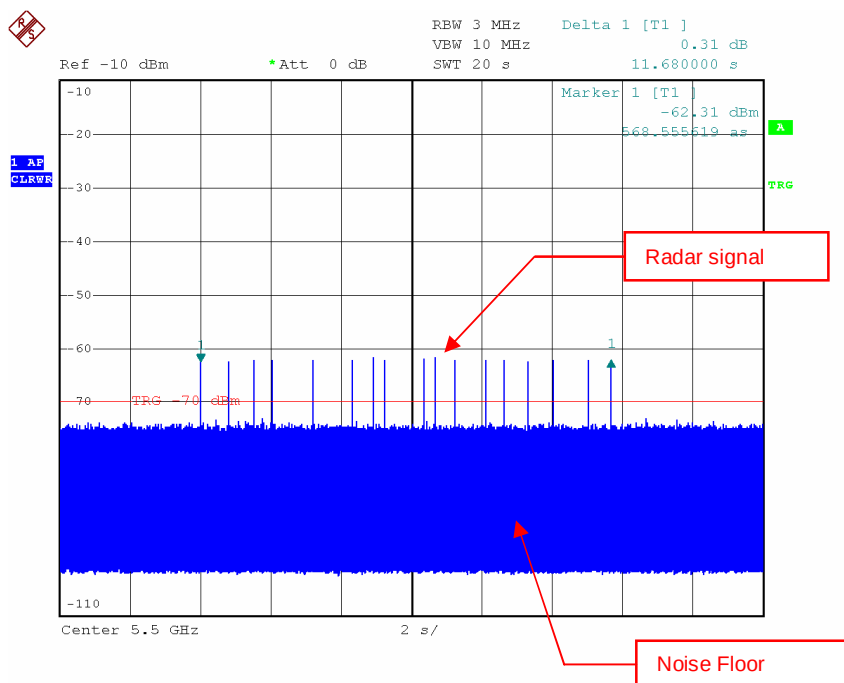
Date: 22.MAY.2007 01:33:12

Radar Signal 3



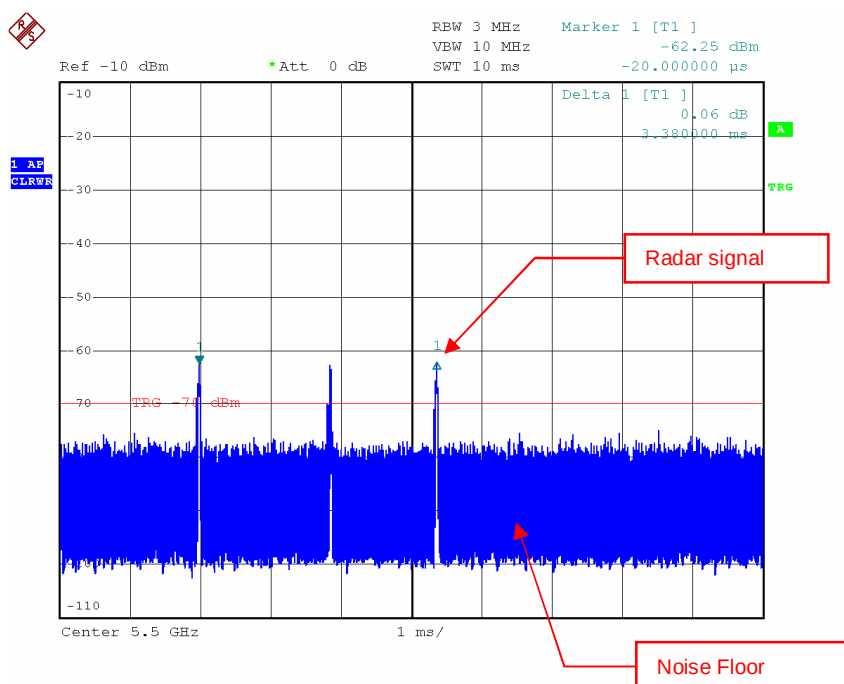
Date: 22.MAY.2007 01:34:20

Radar Signal 4



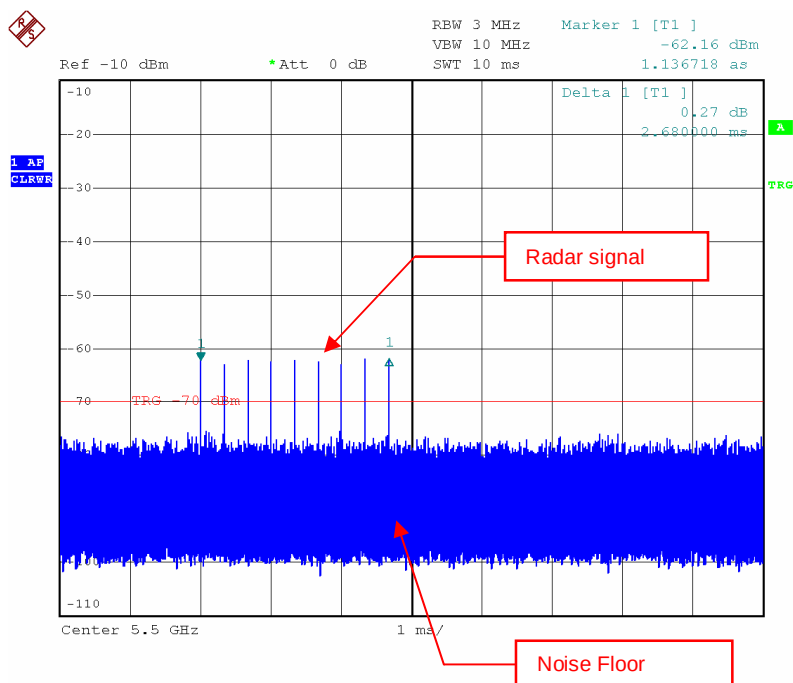
Date: 22.MAY.2007 01:43:35

Radar Signal 5



Date: 22.MAY.2007 01:40:47

Single Burst of Radar Signal 5



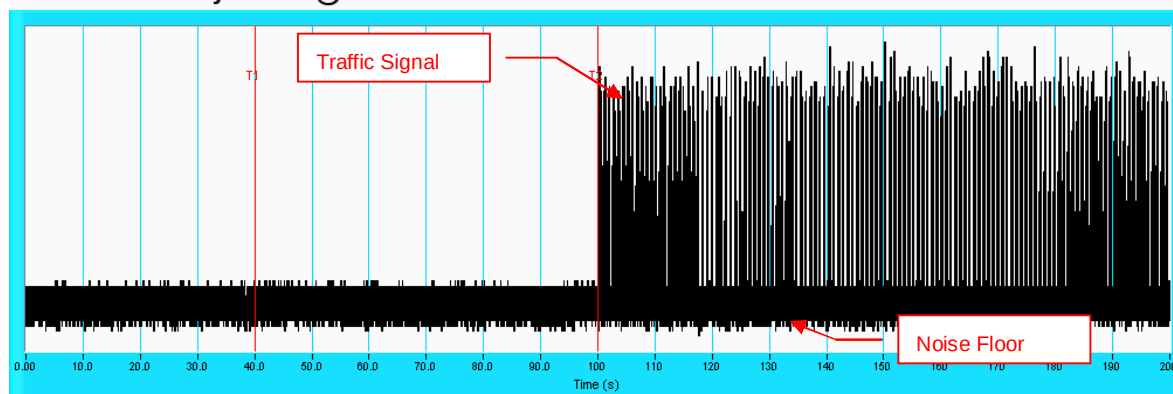
Date: 22.MAY.2007 01:38:41

Radar Signal 6

5.2.1.2 CHANNEL AVAILABILITY CHECK TIME

Initial Channel Availability Check Time

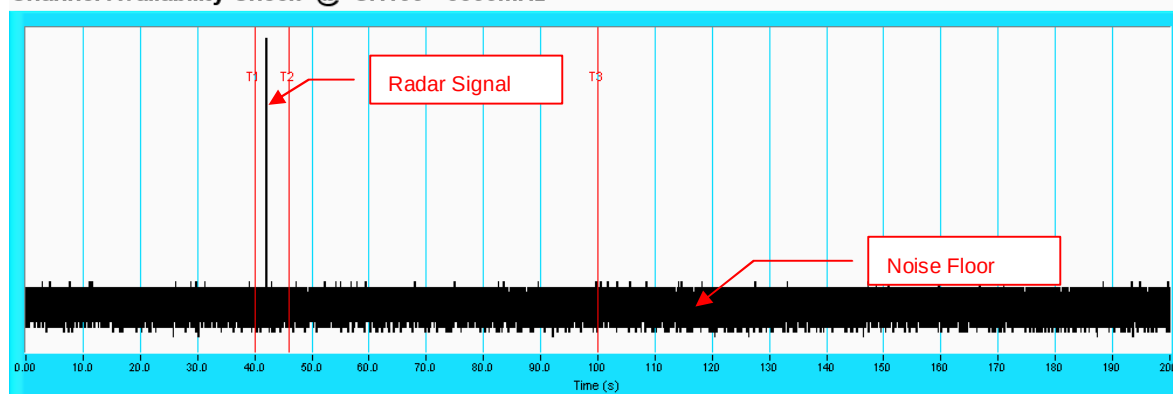
Channel Availability Check @ CH100 - 5500MHz



NOTE: T1 denotes the end of power-up time period is 40th second. T2 denotes the end of Channel Availability Check time is 100th second. Channel Availability Check time is equal to (T2 – T1) 60 seconds.

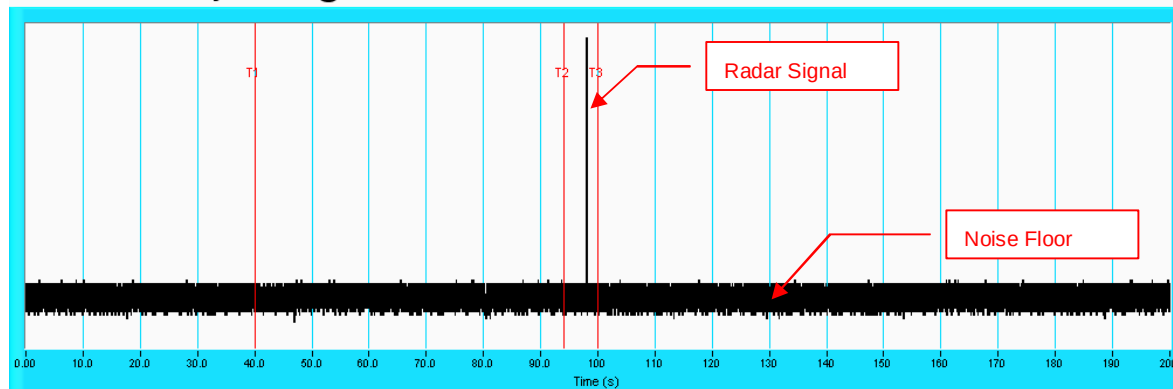
Radar Burst at the Beginning of the Channel Availability Check Time

Channel Availability Check @ CH100 - 5500MHz



NOTE: T1 denotes the end of power up time period is 40th second. T2 denotes the radar burst was commenced within a 6 second window starting from the end of power-up sequence. T3 denotes the 100th second.

Radar Burst at the End of the Channel Availability Check Time **Channel Availability Check @ CH100 - 5500MHz**



NOTE: T1 denotes the end of power up time period is 40th second. T2 denotes 94th second and T3 denotes the 100th second. The radar burst was commenced within 54th second to 60th second window starting from the end of power-up sequence.

5.2.1.3 CHANNEL CLOSING TRANSMISSION AND CHANNEL MOVE TIME

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	86.7
2	1-5	150-230	23-29	30	83.3
3	6-10	200-500	16-18	30	76.7
4	11-20	200-500	12-16	30	73.3
Aggregate (Radar Types 1-4)				120	80

Table 2: Long Pulse Radar Test Waveform

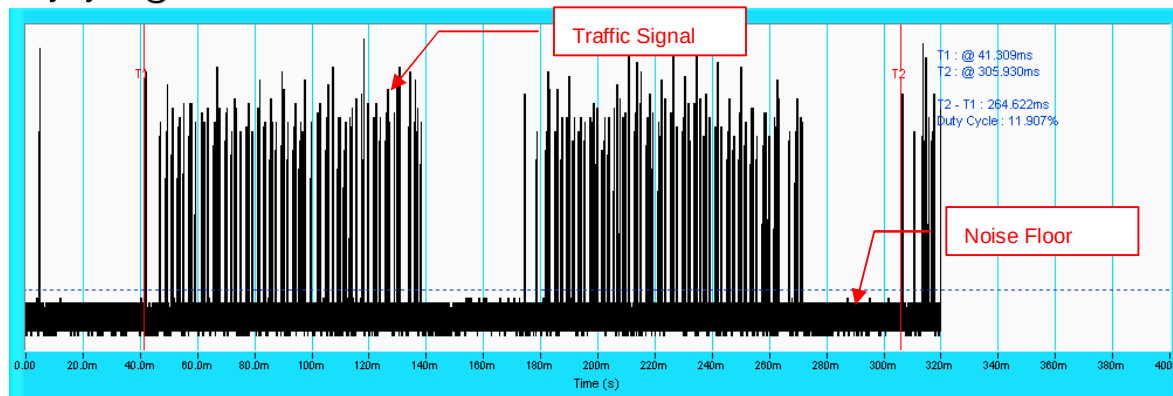
Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Number of Trials(Times)	Percentage of Successful Detection (%)
5	50-100	5-20	1000-2000	1-3	8-20	30	86.7

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

WLAN TRAFFIC

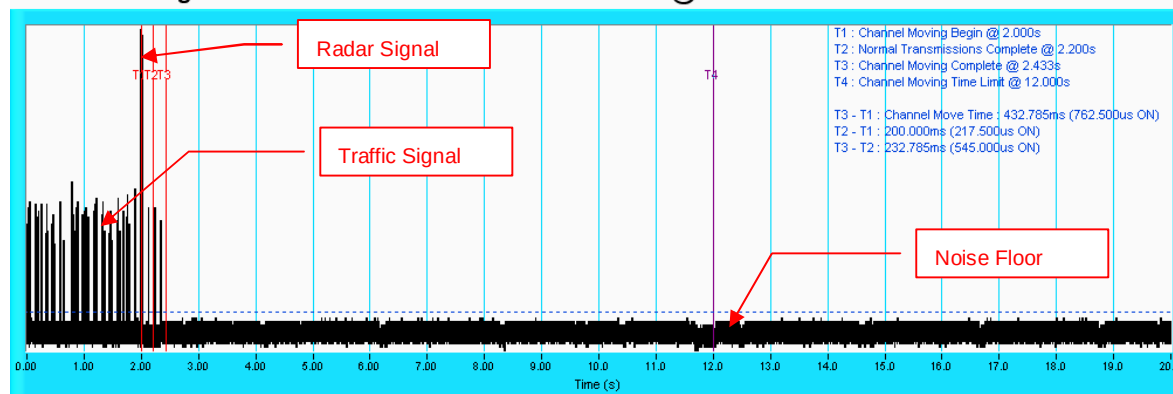
Duty Cycle @ CH100 - 5500MHz



NOTE: T1 denotes the start of duty cycle period is 0.041309th second. T2 denotes the end of duty cycle period is 0.305930th second. T2 – T1= 0.264622 seconds. Duty Cycle = 11.907%

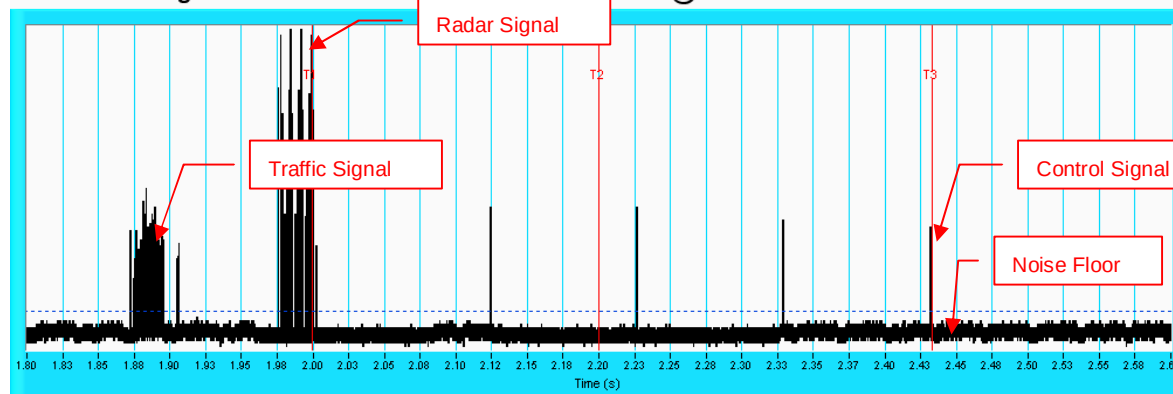
Radar signal 1

Channel Closing Transmission Time & Channel Move Time @ CH100 - 5500MHz



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.

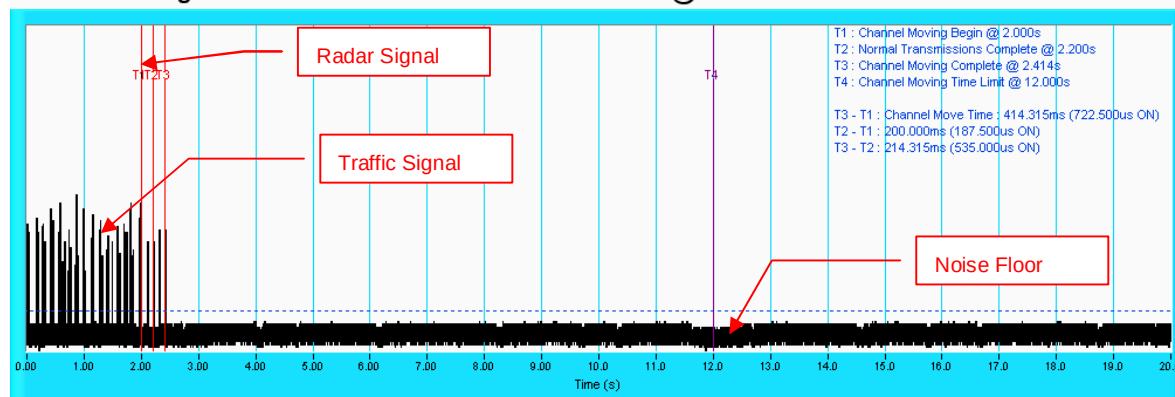
Channel Closing Transmission Time & Channel Move Time @ CH100 - 5500MHz



NOTE: An expanded plot for the device vacates the channel in the required 200ms.

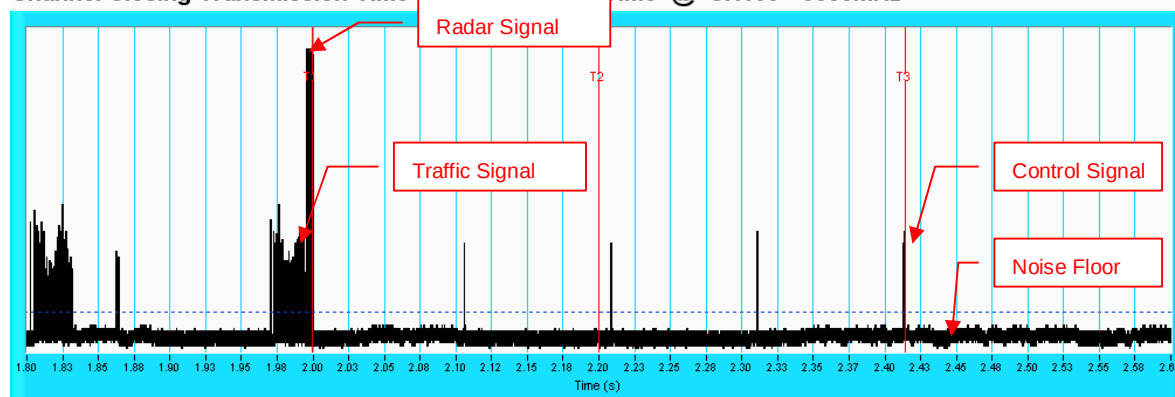
Radar signal 2

Channel Closing Transmission Time & Channel Move Time @ CH100 - 5500MHz



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.

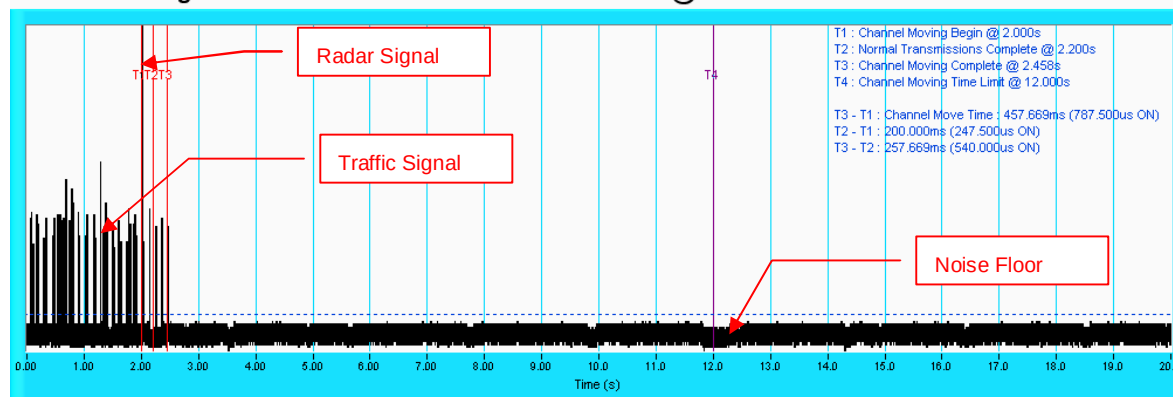
Channel Closing Transmission Time & Channel Move Time @ CH100 - 5500MHz



NOTE: An expanded plot for the device vacates the channel in the required 200ms.

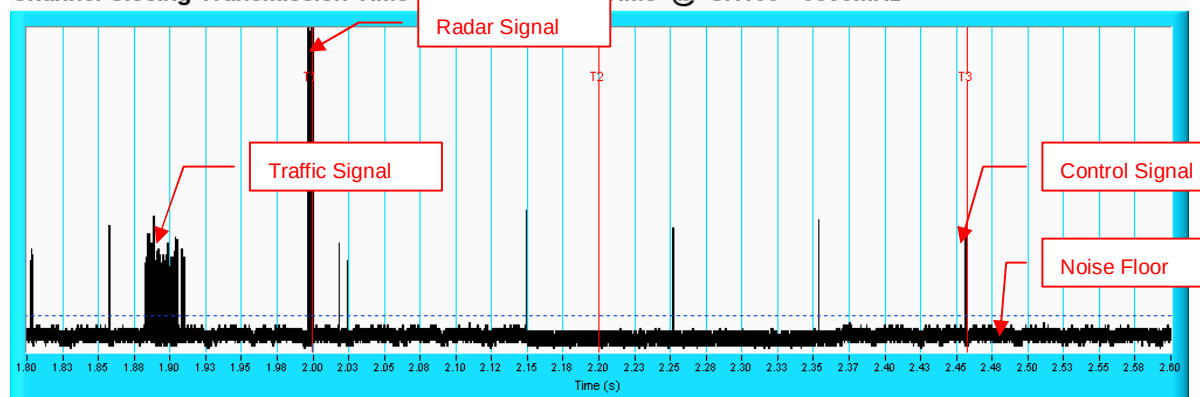
Radar signal 3

Channel Closing Transmission Time & Channel Move Time @ CH100 - 5500MHz



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.

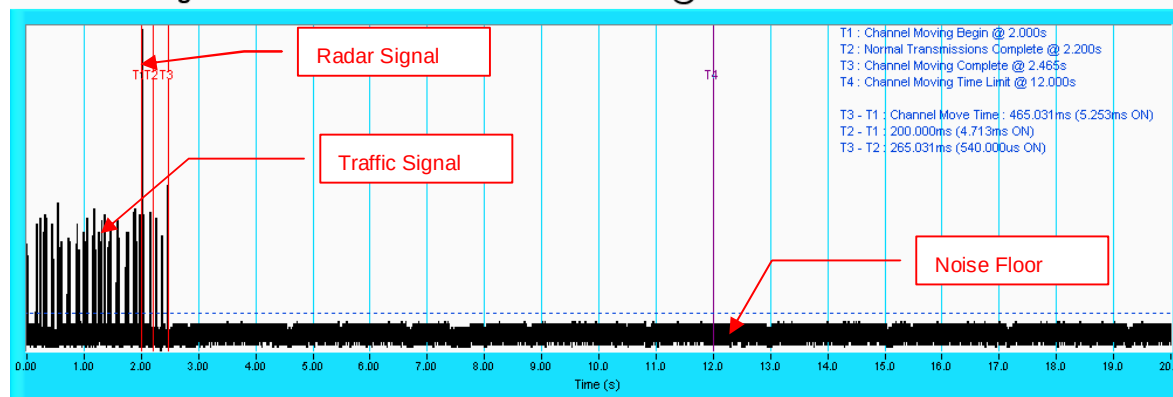
Channel Closing Transmission Time & Channel Move Time @ CH100 - 5500MHz



NOTE: An expanded plot for the device vacates the channel in the required 200ms.

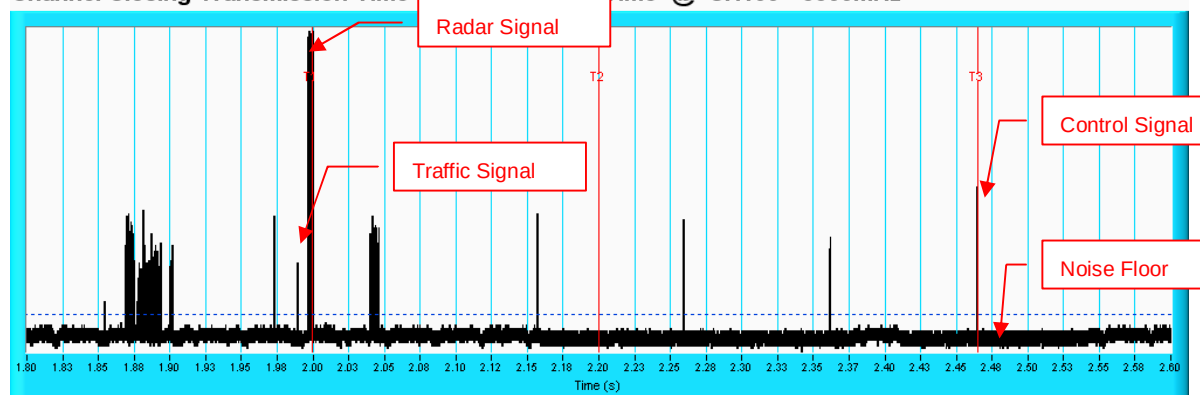
Radar signal 4

Channel Closing Transmission Time & Channel Move Time @ CH100 - 5500MHz



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.

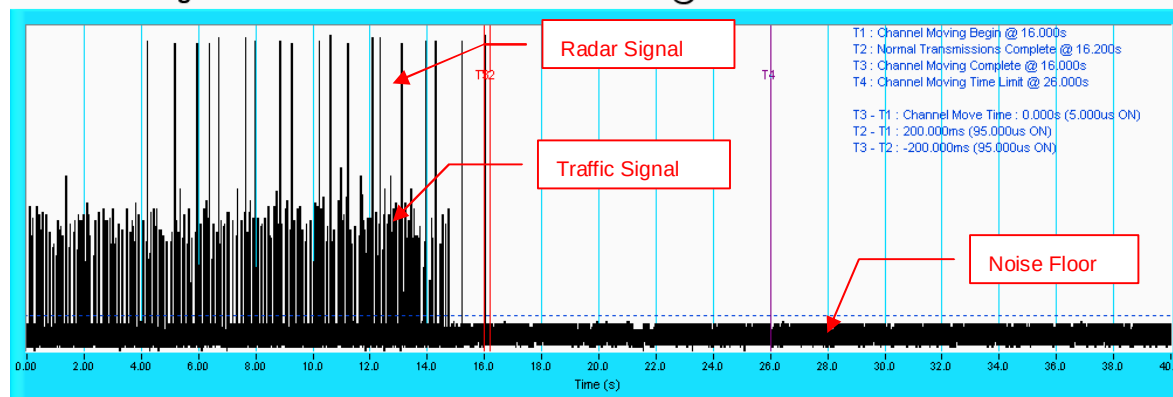
Channel Closing Transmission Time & Channel Move Time @ CH100 - 5500MHz



NOTE: An expanded plot for the device vacates the channel in the required 200ms.

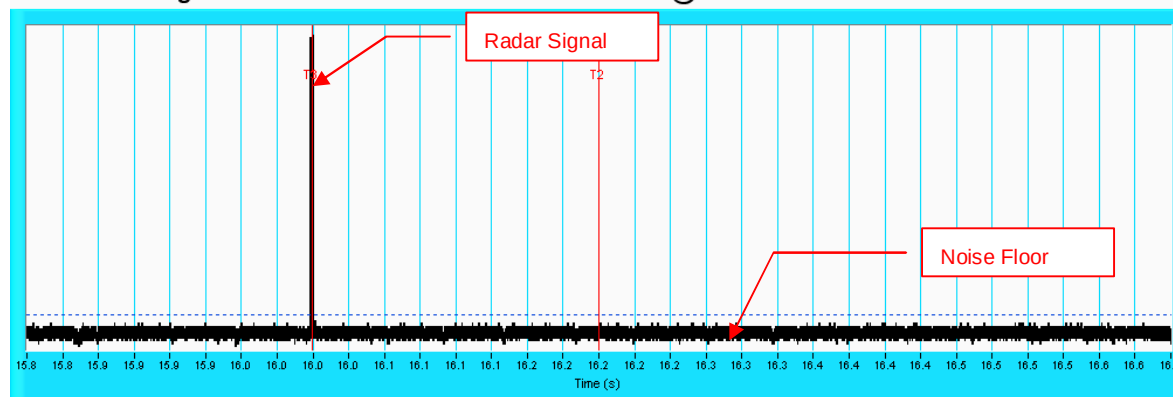
Radar signal 5

Channel Closing Transmission Time & Channel Move Time @ CH100 - 5500MHz



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.

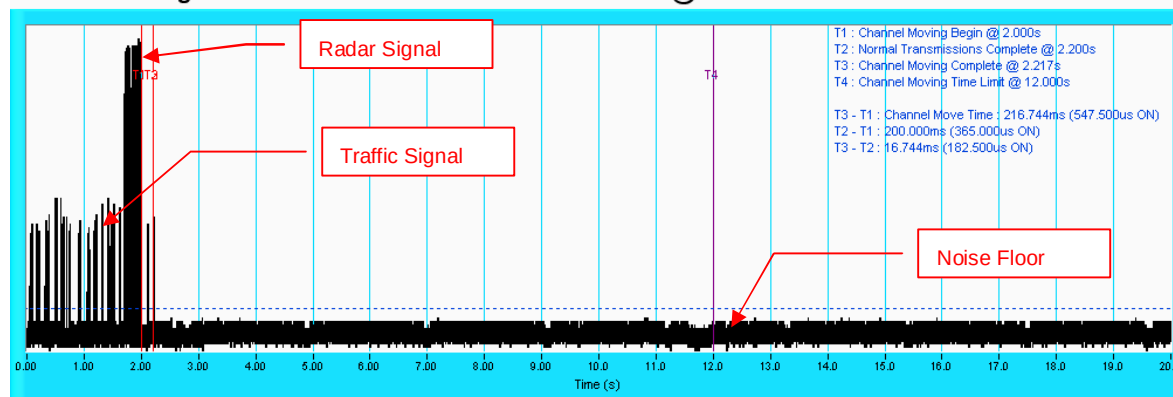
Channel Closing Transmission Time & Channel Move Time @ CH100 - 5500MHz



NOTE: An expanded plot for the device vacates the channel in the required 200ms.

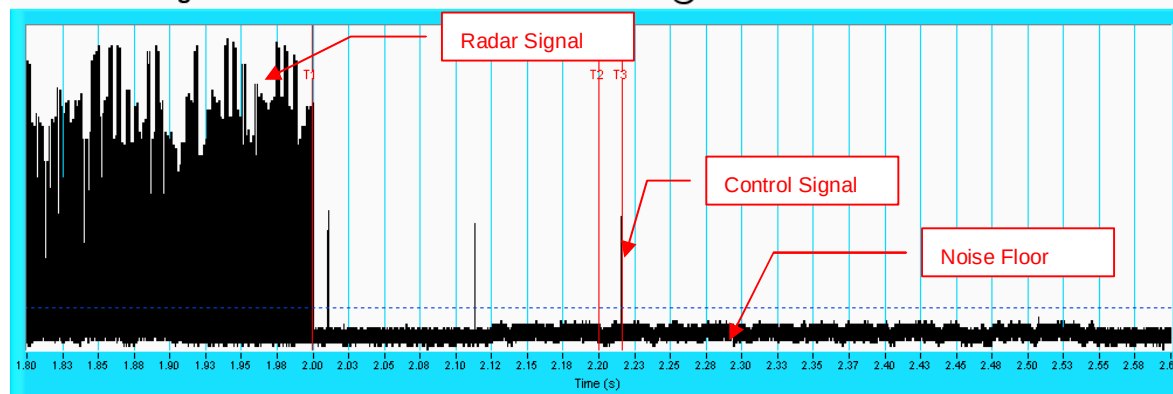
Radar signal 6

Channel Closing Transmission Time & Channel Move Time @ CH100 - 5500MHz



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.

Channel Closing Transmission Time & Channel Move Time @ CH100 - 5500MHz



NOTE: An expanded plot for the device vacates the channel in the required 200ms.

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	No
8	18	1.0u	1.428m	Yes
9	18	1.0u	1.428m	Yes
10	18	1.0u	1.428m	No
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	No
22	18	1.0u	1.428m	Yes
23	18	1.0u	1.428m	No
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: 86.7 %				

Type 2 Radar Statistical Performances

Trial #	Pulses per Burst	Pulse Width (s)	PRI (s)	Detection
1	27	3.9u	210.0u	Yes
2	24	2.9u	227.0u	Yes
3	27	3.3u	172.0u	No
4	24	4.5u	187.0u	Yes
5	24	3.5u	215.0u	Yes
6	28	2.1u	171.0u	Yes
7	28	3.3u	197.0u	No
8	25	4.1u	192.0u	Yes
9	26	4.2u	152.0u	Yes
10	28	1.4u	186.0u	No
11	23	2.0u	180.0u	Yes
12	24	1.6u	219.0u	Yes
13	27	1.6u	189.0u	Yes
14	29	2.5u	161.0u	Yes
15	29	2.6u	189.0u	Yes
16	24	2.7u	171.0u	Yes
17	24	1.5u	228.0u	Yes
18	25	4.6u	219.0u	Yes
19	24	1.6u	155.0u	Yes
20	24	3.0u	175.0u	Yes
21	26	1.1u	184.0u	Yes
22	26	1.1u	156.0u	No
23	26	2.1u	184.0u	Yes
24	24	4.4u	177.0u	Yes
25	24	1.5u	210.0u	Yes
26	24	4.2u	224.0u	Yes
27	27	3.8u	216.0u	Yes
28	26	1.6u	193.0u	Yes
29	23	3.2u	158.0u	Yes
30	24	2.8u	210.0u	No

Detection Rate: 83.3 %

Type 3 Radar Statistical Performances

Trial #	Pulses per Burst	Pulse Width (s)	PRI (s)	Detection
1	16	9.0u	276.0u	No
2	17	8.7u	234.0u	Yes
3	16	9.4u	399.0u	Yes
4	17	8.3u	259.0u	Yes
5	17	6.3u	495.0u	Yes
6	17	6.1u	294.0u	Yes
7	18	9.4u	425.0u	No
8	17	9.5u	453.0u	Yes
9	18	9.6u	263.0u	Yes
10	18	7.7u	459.0u	No
11	16	9.2u	367.0u	Yes
12	18	7.8u	341.0u	Yes
13	17	7.9u	259.0u	No
14	17	6.8u	434.0u	Yes
15	17	7.9u	267.0u	Yes
16	17	7.8u	463.0u	No
17	17	8.9u	296.0u	No
18	16	7.8u	384.0u	Yes
19	17	9.7u	373.0u	No
20	18	6.1u	321.0u	Yes
21	17	9.7u	489.0u	Yes
22	17	7.3u	401.0u	Yes
23	17	9.5u	421.0u	Yes
24	18	9.9u	366.0u	Yes
25	16	10.0u	370.0u	Yes
26	17	8.9u	423.0u	Yes
27	17	8.2u	241.0u	Yes
28	18	8.8u	226.0u	Yes
29	17	9.3u	337.0u	Yes
30	18	8.4u	427.0u	Yes
Detection Rate: 76.7 %				

Type 4 Radar Statistical Performances

Trial #	Pulses per Burst	Pulse Width (s)	PRI (s)	Detection
1	12	20.0u	429.0u	Yes
2	15	14.5u	229.0u	Yes
3	12	11.5u	261.0u	Yes
4	15	13.1u	245.0u	Yes
5	15	18.9u	323.0u	Yes
6	15	14.6u	418.0u	No
7	15	14.7u	420.0u	Yes
8	13	14.4u	384.0u	Yes
9	13	14.7u	359.0u	No
10	15	14.0u	397.0u	Yes
11	15	14.0u	353.0u	Yes
12	12	13.1u	424.0u	Yes
13	14	13.1u	492.0u	Yes
14	14	17.2u	422.0u	Yes
15	14	13.5u	392.0u	Yes
16	13	11.9u	239.0u	No
17	15	19.6u	477.0u	Yes
18	13	19.9u	298.0u	Yes
19	15	13.3u	499.0u	No
20	14	18.1u	314.0u	Yes
21	14	13.9u	448.0u	Yes
22	16	16.8u	374.0u	Yes
23	14	12.0u	266.0u	No
24	13	11.0u	450.0u	Yes
25	14	16.3u	451.0u	Yes
26	12	11.6u	318.0u	No
27	13	18.0u	269.0u	No
28	16	12.5u	467.0u	Yes
29	13	13.3u	443.0u	Yes
30	14	18.7u	314.0u	No
Detection Rate: 73.3 %				

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	Yes
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	No
17	LP_Signal_17	Yes
18	LP_Signal_18	Yes
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	No
26	LP_Signal_26	Yes
27	LP_Signal_27	Yes
28	LP_Signal_28	Yes
29	LP_Signal_29	No
30	LP_Signal_30	Yes

Detection Rate: 86.7 %

The Long Pulse Radar pattern shown in Appendix B.1

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	No
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	Yes
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	No
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	Yes
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

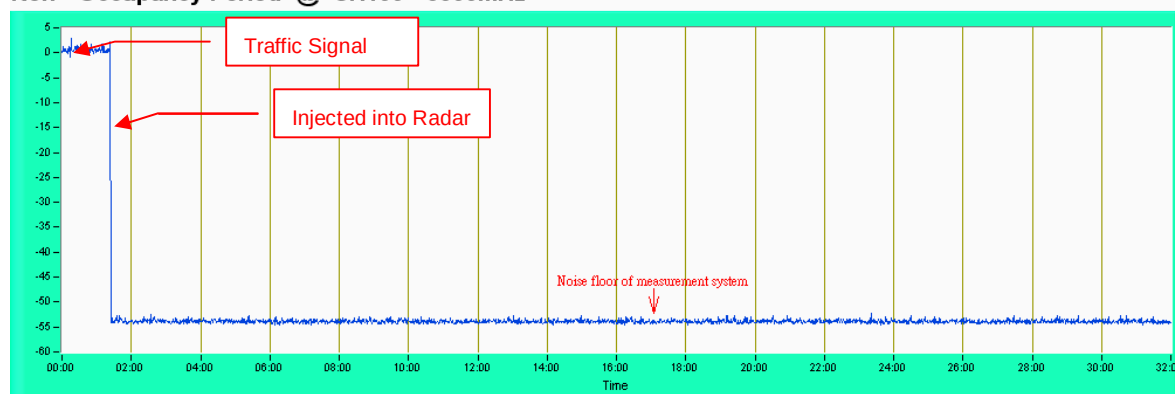
Detection Rate: 96.7 %

The Frequency Hopping Radar pattern shown in Appendix B.2

5.2.1.4 NON- OCCUPANCY PERIOD

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.

Non - Occupancy Period @ CH100 - 5500MHz

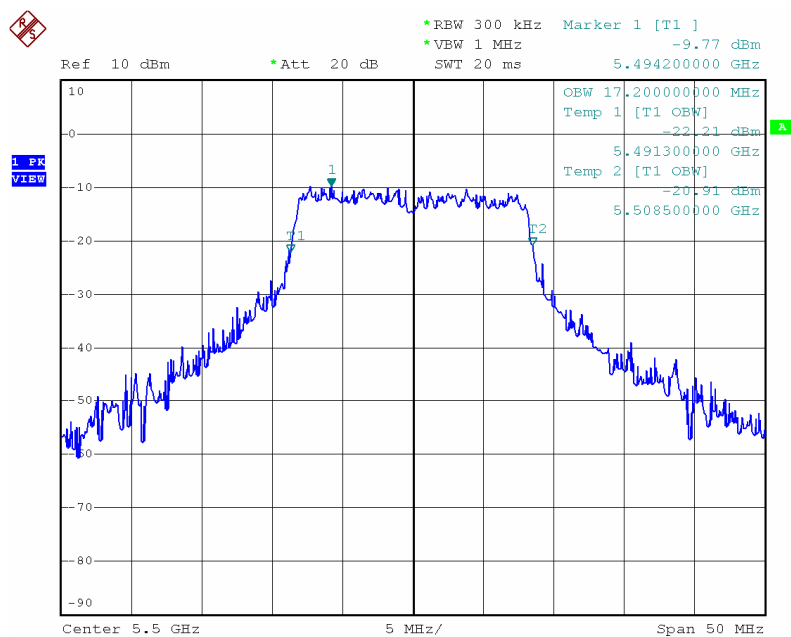


5.2.1.5 UNIFORM SPREADING

The intention of the uniform spreading is to provide, on aggregate, a uniform loading of the spectrum. The UUT using the bands 5150 to 5350MHz and 5470 to 5850 MHz shall select an operating channel out of the 24 channels, so that the probability of selecting a given channel shall be the same for all channels.

The UUT will select channel by random mode and remember this channel when detect radar signal, so that will select unused channel by random mode.

5.2.1.6 U-NII DETECTION BANDWIDTH



Date: 23.MAY.2007 00:29:41

U-NII 99% Channel bandwidth

Detection Bandwidth Test											
EUT Frequency: 5.320GHz											
EUT 99% Power bandwidth: 17.20MHz											
Detection bandwidth limit (80% of EUT 99% Power bandwidth): 13.76MHz											
Detection Bandwidth (FH - FL): 14.00MHz											
Test Result : PASS											
Radar	Trial Number / Detection										Detection Rate (%)
Frequency (Hz)	1	2	3	4	5	6	7	8	9	10	
5.311G	Yes	No	Yes	Yes	No	Yes	Yes	Yes	Yes	No	70.0
5.312G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.313G (FL)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.314G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.315G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.316G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.317G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.318G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.319G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.320G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.321G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.322G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.323G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.324G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.325G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.326G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.327G (FH)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.328G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.329G	Yes	Yes	No	No	Yes	Yes	Yes	No	Yes	Yes	70.0

5.3 TRANSMIT POWER CONTROL (TPC)

The UUT can adjust a transmitter's output power based on the signal level present at the receiver.

TPC is controlled by software and the user may adjust the Transmit Power level from web interface that may adjust the transmit power among -3dB, -6dB, -9dB & -12dB from web manually when the power needs to be increased or decreased.

The interface is for WLAN bridge purpose that is installed fixedly, so we implement manual TPC instead of automatic TPC on the product.

6. ANTENNA REQUIREMENT

6.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.407(a), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

6.2 ANTENNA CONNECTED CONSTRUCTION

The antennas used in this product are as following:

No.	Model No.	Gain (dBi)	Cable Loss (dB)	Net Gain (dB)	Antenna Type	Connector
1	SAA04-220080	5	1.8	3.2	Dipole	RP-N plug

7. INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA	FCC, UL, A2LA
Germany	TUV Rheinland
Japan	VCCI
Norway	NEMKO
Canada	INDUSTRY CANADA , CSA
R.O.C.	TAF, BSMI, NCC
Netherlands	Telefication
Singapore	PSB , GOST-ASIA(MOU)
Russia	CERTIS(MOU)

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site:

www.adt.com.tw/index.5/phtml. 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: 886-3-3185050

Web Site: www.adt.com.tw

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 any modifications are made to the EUT by the lab during the test.

APPENDIX-B

RADAR TEST SIGNAL

B.1 The Long Pulse Radar Pattern

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_01						
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	7M	63.6u	1.240m	-	220.0m
2	2	17M	51.9u	1.681m	-	173.2m
3	3	9M	96.8u	1.661m	1.649m	501.1m
4	2	14M	54.9u	979.1u	-	39.20m
5	1	19M	67.4u	-	-	86.36m
6	2	18M	55.7u	1.812m	-	92.07m
7	2	9M	99.3u	1.202m	-	251.0m
8	1	12M	62.8u	-	-	221.2m
9	3	8M	67.7u	1.911m	1.305m	390.7m
10	3	6M	69.2u	1.582m	1.498m	216.5m
11	1	8M	55.0u	-	-	107.5m
12	2	12M	97.1u	1.847m	-	230.0m
13	3	9M	81.1u	1.509m	1.198m	457.1m
14	2	10M	62.4u	1.309m	-	98.56m
15	1	19M	81.4u	-	-	278.2m
16	2	18M	94.8u	1.584m	-	120.8m
17	2	6M	88.4u	1.725m	-	15.10m
18	3	11M	57.7u	946.3u	1.166m	140.3m
19	2	16M	86.2u	1.799m	-	538.1m

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	57.9u	1.484m	-	723.4m
2	1	13M	72.0u	-	-	817.9m
3	2	5M	93.7u	1.156m	-	1.025
4	2	14M	68.6u	987.4u	-	565.0m
5	1	14M	59.9u	-	-	521.8m
6	2	16M	83.4u	1.117m	-	973.0m
7	1	9M	73.2u	-	-	257.3m
8	2	17M	67.9u	1.095m	-	327.7m
9	3	7M	51.0u	1.474m	1.184m	1.010
10	2	19M	85.0u	1.680m	-	825.8m
11	1	17M	65.5u	-	-	651.1m

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_03						

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	1	9M	91.8u	-	-	485.1m
2	3	20M	82.0u	1.574m	1.588m	226.5m
3	3	20M	55.9u	1.181m	1.403m	540.4m
4	3	11M	87.5u	1.175m	997.5u	22.87m
5	2	16M	59.5u	1.754m	-	479.9m
6	1	18M	83.8u	-	-	561.4m
7	3	11M	71.4u	1.191m	1.452m	274.5m
8	3	13M	89.4u	1.053m	1.806m	214.6m
9	1	14M	64.8u	-	-	28.46m
10	2	18M	76.4u	1.871m	-	404.2m
11	2	8M	98.5u	1.706m	-	403.9m
12	3	18M	53.8u	1.663m	1.658m	437.0m
13	3	11M	72.1u	1.325m	950.9u	177.5m
14	1	14M	76.9u	-	-	216.9m
15	2	9M	76.5u	1.234m	-	352.0m
16	3	13M	83.7u	1.391m	1.204m	413.7m
17	3	17M	64.6u	1.925m	996.4u	196.9m
18	2	14M	77.1u	1.478m	-	413.5m

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_04						
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	12M	86.4u	961.6u	-	640.4m
2	2	9M	54.3u	1.566m	-	647.6m
3	3	10M	96.2u	1.731m	1.167m	331.1m
4	2	20M	66.9u	1.451m	-	181.1m
5	3	8M	100.0u	1.611m	1.717m	605.1m
6	2	13M	87.1u	1.901m	-	97.56m
7	2	15M	81.8u	990.2u	-	781.4m
8	2	14M	50.5u	1.535m	-	738.5m
9	2	6M	73.3u	1.673m	-	279.8m
10	1	18M	57.3u	-	-	70.33m
11	2	10M	67.4u	1.561m	-	111.6m
12	1	10M	80.4u	-	-	21.89m
13	2	6M	60.3u	1.587m	-	575.7m
14	2	9M	57.9u	1.016m	-	769.5m

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	1	9M	60.3u	-	-	688.8m
2	1	5M	97.4u	-	-	139.3m
3	2	7M	67.3u	1.385m	-	621.1m
4	2	14M	83.0u	1.354m	-	363.2m
5	2	6M	88.7u	1.727m	-	503.5m

6	3	6M	79.6u	983.4u	1.900m	70.87m
7	3	6M	72.1u	1.254m	1.174m	140.7m
8	2	8M	82.1u	981.9u	-	520.7m
9	2	10M	70.8u	1.746m	-	649.0m
10	2	19M	75.0u	1.814m	-	692.0m
11	2	16M	74.7u	1.671m	-	529.5m
12	2	17M	73.0u	1.411m	-	624.6m
13	2	17M	73.3u	1.297m	-	110.6m
14	2	19M	88.4u	933.6u	-	290.7m
15	2	10M	70.3u	1.201m	-	159.1m
16	2	6M	88.6u	1.632m	-	147.7m
17	2	9M	68.2u	1.648m	-	138.5m

Long Pulse Radar Test Signal
Test Signal Name: LP_Signal_06
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	7M	65.5u	-	-	541.0m
2	3	17M	68.6u	1.105m	1.926m	9.354m
3	1	17M	72.2u	-	-	223.6m
4	1	15M	59.0u	-	-	641.9m
5	2	17M	60.1u	1.641m	-	421.1m
6	1	9M	76.4u	-	-	592.0m
7	3	5M	94.2u	1.503m	914.8u	149.2m
8	3	8M	62.8u	1.126m	1.873m	51.40m
9	2	10M	64.7u	1.849m	-	358.7m
10	1	18M	77.7u	-	-	541.3m
11	1	16M	93.0u	-	-	209.9m
12	3	9M	59.8u	1.714m	1.867m	633.4m
13	3	6M	96.8u	1.726m	929.2u	427.4m
14	3	18M	66.2u	1.830m	1.645m	190.3m
15	2	13M	91.2u	1.047m	-	430.9m
16	2	16M	82.2u	1.194m	-	380.9m
17	1	7M	52.6u	-	-	579.3m

Long Pulse Radar Test Signal
Test Signal Name: LP_Signal_07
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	3	17M	68.0u	946.0u	1.846m	28.14m
2	2	9M	88.5u	1.767m	-	351.9m
3	3	15M	66.9u	1.394m	1.501m	484.7m
4	3	15M	54.3u	1.169m	1.011m	153.6m
5	2	9M	66.0u	1.101m	-	425.5m
6	3	7M	76.2u	1.598m	1.213m	278.1m
7	1	12M	51.4u	-	-	371.4m
8	3	10M	64.6u	1.023m	1.319m	447.4m
9	2	8M	53.2u	1.542m	-	159.3m
10	1	15M	73.3u	-	-	242.3m
11	1	10M	65.7u	-	-	277.7m

12	1	9M	73.3u	-	-	148.9m
13	2	16M	68.4u	1.039m	-	490.5m
14	2	10M	51.8u	1.830m	-	563.1m
15	3	15M	55.0u	1.940m	1.767m	33.76m
16	2	12M	91.4u	1.572m	-	570.1m
17	1	16M	59.3u	-	-	521.1m
18	2	6M	64.7u	1.687m	-	506.2m
19	2	17M	86.2u	1.857m	-	49.81m
20	3	14M	83.4u	1.207m	1.635m	301.4m

Long Pulse Radar Test Signal
Test Signal Name: LP_Signal_08
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	6M	53.1u	1.854m	-	226.1m
2	2	15M	74.5u	1.875m	-	342.7m
3	2	11M	73.4u	1.016m	-	41.72m
4	3	8M	66.1u	1.556m	1.099m	207.7m
5	2	20M	57.0u	945.0u	-	624.6m
6	3	14M	72.7u	1.530m	1.716m	339.0m
7	1	12M	78.5u	-	-	671.4m
8	2	9M	62.2u	1.848m	-	249.8m
9	2	20M	50.7u	1.719m	-	528.4m
10	1	9M	57.5u	-	-	215.9m
11	2	10M	75.5u	1.669m	-	286.2m
12	2	10M	96.3u	1.721m	-	138.1m
13	2	15M	81.4u	1.105m	-	645.8m
14	1	10M	78.1u	-	-	451.6m
15	2	12M	71.3u	953.7u	-	83.99m

Long Pulse Radar Test Signal
Test Signal Name: LP_Signal_09
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	7M	65.0u	1.445m	-	153.8m
2	3	10M	78.5u	1.818m	1.880m	153.3m
3	1	13M	57.8u	-	-	225.1m
4	2	14M	93.9u	1.637m	-	321.1m
5	2	18M	97.7u	1.616m	-	682.0m
6	1	13M	50.5u	-	-	172.0m
7	2	12M	87.6u	1.506m	-	543.6m
8	3	11M	84.8u	1.897m	994.2u	258.6m
9	1	11M	97.5u	-	-	263.1m
10	3	14M	95.6u	1.497m	1.758m	736.6m
11	3	8M	78.6u	1.660m	1.152m	706.3m
12	2	11M	74.9u	1.125m	-	430.9m
13	2	11M	78.2u	1.021m	-	307.2m
14	2	17M	95.8u	986.2u	-	175.9m
15	3	9M	81.3u	1.255m	1.161m	473.2m
16	2	13M	55.6u	1.154m	-	668.7m

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	6M	82.4u	-	-	618.0m
2	1	14M	74.7u	-	-	371.8m
3	2	15M	50.9u	1.669m	-	86.81m
4	3	12M	68.0u	1.740m	1.114m	135.2m
5	3	16M	71.7u	963.3u	1.442m	89.45m
6	3	6M	89.9u	1.821m	1.454m	6.456m
7	2	8M	86.4u	1.401m	-	145.1m
8	2	11M	73.7u	1.161m	-	446.0m
9	2	12M	76.6u	1.200m	-	330.7m
10	1	18M	64.8u	-	-	527.4m
11	1	5M	57.4u	-	-	481.0m
12	2	6M	64.4u	1.638m	-	62.36m
13	2	18M	78.5u	1.507m	-	121.9m
14	2	13M	87.7u	1.788m	-	416.7m
15	1	10M	99.2u	-	-	736.3m
16	2	9M	65.6u	1.220m	-	647.8m

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	3	13M	53.8u	1.890m	949.2u	371.7m
2	3	13M	97.2u	1.314m	1.367m	820.3m
3	2	11M	54.6u	1.858m	-	485.3m
4	3	9M	67.3u	1.328m	1.653m	103.9m
5	2	5M	50.7u	1.384m	-	131.9m
6	2	7M	65.2u	981.8u	-	761.6m
7	1	9M	96.4u	-	-	465.9m
8	3	8M	77.3u	1.144m	1.758m	640.0m
9	3	5M	58.0u	1.338m	1.660m	627.8m
10	2	16M	50.6u	1.474m	-	392.4m
11	3	15M	82.7u	1.780m	1.809m	128.8m
12	2	7M	96.9u	1.631m	-	877.7m

Long Pulse Radar Test Signal
Test Signal Name: LP_Signal_12
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	1	6M	77.7u	-	-	844.5m
2	3	14M	97.8u	1.527m	1.736m	503.2m
3	2	6M	76.6u	1.805m	-	300.5m
4	2	11M	88.2u	1.196m	-	945.1m
5	2	14M	54.5u	1.123m	-	1.047
6	2	9M	77.0u	1.837m	-	90.75m
7	3	11M	73.1u	1.307m	1.514m	801.1m

8	2	16M	86.8u	1.690m	-	1.227
9	1	7M	62.1u	-	-	1.048

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_13

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	2	12M	51.8u	1.782m	-	16.04m
2	3	10M	83.6u	1.647m	1.538m	517.0m
3	1	12M	50.4u	-	-	600.4m
4	3	14M	92.4u	1.888m	1.672m	797.3m
5	3	5M	91.9u	991.1u	1.617m	303.3m
6	2	19M	72.2u	998.8u	-	791.0m
7	2	15M	99.0u	917.0u	-	537.6m
8	3	5M	62.8u	1.065m	1.265m	286.5m
9	2	20M	69.6u	1.422m	-	520.0m
10	1	14M	70.3u	-	-	966.6m
11	2	5M	96.6u	1.298m	-	198.1m
12	1	15M	53.4u	-	-	353.5m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_14

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	6M	65.3u	1.892m	1.617m	603.7m
2	3	18M	54.1u	1.756m	1.895m	507.7m
3	3	17M	74.4u	1.915m	1.640m	673.4m
4	3	15M	92.1u	1.355m	1.796m	546.1m
5	1	19M	62.5u	-	-	846.7m
6	3	13M	77.8u	1.052m	1.611m	526.5m
7	2	10M	84.4u	1.620m	-	710.7m
8	2	8M	99.0u	1.667m	-	47.65m
9	2	11M	90.2u	1.607m	-	520.1m
10	3	9M	98.3u	1.219m	1.693m	395.1m
11	1	17M	96.1u	-	-	167.2m
12	1	13M	85.2u	-	-	653.5m
13	3	12M	59.4u	1.709m	1.331m	249.8m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_15

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	2	8M	94.3u	1.839m	-	24.09m
2	3	19M	73.1u	1.226m	1.062m	496.1m
3	2	10M	87.9u	1.717m	-	88.45m
4	1	19M	51.1u	-	-	315.0m
5	3	9M	77.0u	1.068m	1.715m	594.1m
6	3	5M	99.8u	1.143m	1.481m	87.62m
7	3	12M	73.4u	1.731m	1.746m	308.5m
8	1	12M	74.0u	-	-	60.55m

9	2	13M	71.8u	1.249m	-	284.0m
10	2	17M	81.1u	1.536m	-	658.0m
11	3	9M	66.4u	1.675m	1.889m	118.9m
12	2	19M	86.2u	1.091m	-	509.2m
13	2	5M	70.5u	1.685m	-	407.6m
14	2	16M	62.2u	1.523m	-	606.1m
15	2	19M	87.2u	1.254m	-	149.3m
16	2	11M	78.7u	1.013m	-	437.5m
17	2	7M	74.2u	991.8u	-	55.16m

Long Pulse Radar Test Signal
Test Signal Name: LP_Signal_16
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	3	17M	67.2u	982.8u	1.627m	261.9m
2	3	8M	63.7u	1.164m	1.198m	464.3m
3	2	11M	56.4u	1.056m	-	666.4m
4	3	6M	52.5u	1.544m	1.632m	57.94m
5	3	9M	50.3u	1.260m	1.024m	1.062
6	3	15M	88.7u	1.642m	1.758m	336.3m
7	1	18M	97.1u	-	-	166.7m
8	1	19M	84.6u	-	-	1.429

Long Pulse Radar Test Signal
Test Signal Name: LP_Signal_17
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	14M	80.7u	1.158m	-	732.1m
2	1	8M	68.0u	-	-	244.1m
3	2	16M	61.4u	1.867m	-	503.1m
4	2	16M	91.9u	1.832m	-	99.42m
5	2	7M	84.6u	1.491m	-	886.8m
6	2	14M	87.5u	975.5u	-	231.5m
7	2	12M	64.1u	1.783m	-	994.1m
8	1	14M	91.7u	-	-	523.6m
9	3	17M	73.4u	1.751m	1.691m	326.8m
10	2	17M	67.4u	1.118m	-	662.8m
11	1	10M	68.3u	-	-	466.0m

Long Pulse Radar Test Signal
Test Signal Name: LP_Signal_18
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	7M	83.8u	1.016m	-	28.59m
2	2	11M	60.1u	1.010m	-	301.8m
3	2	15M	66.5u	960.5u	-	222.3m
4	2	7M	71.5u	952.5u	-	259.8m
5	2	9M	62.7u	1.029m	-	525.6m
6	2	17M	94.0u	1.493m	-	129.2m
7	2	11M	58.0u	1.534m	-	185.4m

8	2	9M	63.5u	1.777m	-	428.0m
9	3	13M	75.4u	1.011m	1.055m	6.062m
10	1	11M	66.6u	-	-	1.159

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_19

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	9M	58.0u	1.498m	-	536.7m
2	2	10M	65.1u	1.487m	-	434.0m
3	1	7M	81.9u	-	-	160.8m
4	2	7M	64.7u	1.227m	-	149.5m
5	2	13M	97.2u	1.792m	-	740.7m
6	2	9M	94.9u	1.809m	-	538.8m
7	3	8M	62.8u	1.828m	1.230m	895.2m
8	3	13M	93.8u	1.362m	1.847m	840.9m
9	2	11M	93.0u	1.316m	-	196.2m
10	3	6M	69.0u	1.259m	1.796m	972.7m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_20

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	1	15M	99.4u	-	-	292.4m
2	1	13M	80.4u	-	-	747.4m
3	1	16M	65.1u	-	-	931.6m
4	3	9M	52.8u	1.243m	1.876m	548.1m
5	2	8M	79.2u	1.184m	-	113.2m
6	3	12M	93.0u	1.641m	1.740m	1.181
7	1	10M	74.6u	-	-	592.7m
8	1	5M	87.0u	-	-	880.3m
9	2	11M	57.7u	951.3u	-	705.1m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_21

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	16M	81.0u	1.743m	-	834.2m
2	3	13M	98.6u	1.607m	1.214m	1.010
3	1	14M	57.4u	-	-	981.5m
4	2	6M	82.6u	1.722m	-	772.4m
5	3	11M	50.9u	1.058m	1.393m	501.6m
6	1	7M	93.6u	-	-	670.3m
7	3	13M	52.1u	1.936m	1.280m	35.77m
8	3	17M	58.1u	1.542m	1.637m	621.7m
9	3	10M	93.6u	1.704m	1.540m	837.8m
10	2	19M	56.9u	1.466m	-	538.4m
11	2	6M	88.6u	1.674m	-	140.8m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_22

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	16M	95.6u	1.788m	-	226.1m
2	2	18M	74.6u	1.524m	-	469.4m
3	3	9M	97.1u	1.890m	1.149m	73.37m
4	3	11M	99.3u	1.237m	1.899m	459.5m
5	2	13M	58.2u	1.478m	-	251.5m
6	3	7M	56.2u	1.074m	1.534m	589.4m
7	2	16M	82.6u	1.281m	-	739.1m
8	2	9M	50.6u	1.122m	-	252.9m
9	2	7M	59.9u	1.055m	-	340.8m
10	2	14M	93.2u	1.429m	-	226.2m
11	1	15M	97.8u	-	-	108.8m
12	2	7M	62.7u	1.412m	-	352.2m
13	3	7M	72.3u	1.438m	1.747m	573.5m
14	2	14M	74.8u	1.245m	-	215.5m
15	2	16M	93.4u	1.650m	-	613.1m
16	2	9M	59.3u	1.863m	-	103.7m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_23

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	6M	56.7u	1.542m	-	385.9m
2	2	13M	92.0u	1.139m	-	198.1m
3	1	5M	84.4u	-	-	756.4m
4	2	7M	59.0u	1.682m	-	64.67m
5	2	7M	83.8u	1.214m	-	314.6m
6	2	18M	69.0u	1.131m	-	433.8m
7	2	19M	56.9u	1.704m	-	483.9m
8	2	7M	75.2u	1.036m	-	604.8m
9	3	15M	60.7u	1.838m	1.523m	759.2m
10	2	15M	66.0u	1.794m	-	839.4m
11	1	5M	61.7u	-	-	281.5m
12	3	9M	55.9u	1.164m	1.738m	653.4m
13	2	12M	76.9u	1.713m	-	53.25m
14	2	5M	99.1u	1.701m	-	660.9m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_24

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	11M	94.8u	-	-	127.8m
2	2	12M	74.6u	1.707m	-	483.0m
3	2	18M	96.5u	1.239m	-	426.3m
4	3	12M	61.7u	1.647m	1.912m	238.2m
5	1	16M	83.0u	-	-	530.3m
6	2	17M	76.9u	1.167m	-	61.49m

7	1	18M	74.4u	-	-	280.4m
8	3	9M	60.2u	1.412m	1.463m	401.6m
9	3	6M	62.2u	1.769m	1.527m	164.1m
10	2	9M	80.8u	1.087m	-	256.9m
11	2	17M	73.2u	1.139m	-	310.6m
12	3	12M	69.9u	1.292m	1.298m	153.9m
13	2	7M	69.8u	1.504m	-	590.2m
14	2	6M	66.6u	1.705m	-	280.4m
15	1	16M	77.6u	-	-	402.8m
16	2	19M	97.4u	1.466m	-	349.0m
17	1	11M	95.6u	-	-	161.0m
18	2	13M	62.7u	1.656m	-	32.13m
19	1	17M	85.6u	-	-	247.2m
20	3	19M	81.0u	1.317m	1.337m	135.9m

Long Pulse Radar Test Signal
Test Signal Name: LP_Signal_25
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	3	12M	81.9u	1.036m	991.1u	1.421
2	1	15M	82.9u	-	-	1.196
3	2	5M	78.2u	1.243m	-	1.309
4	3	11M	74.6u	1.459m	1.618m	1.031
5	1	17M	95.7u	-	-	1.212
6	3	9M	57.0u	1.382m	1.344m	71.93m
7	1	18M	81.2u	-	-	57.50m
8	2	15M	53.6u	1.726m	-	1.206

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	8M	91.4u	1.536m	1.812m	253.7m
2	2	16M	58.7u	1.582m	-	1.051
3	2	5M	86.3u	987.7u	-	852.6m
4	2	8M	62.8u	1.830m	-	145.1m
5	2	11M	83.1u	1.223m	-	838.0m
6	2	15M	61.5u	1.019m	-	865.2m
7	3	17M	91.9u	917.1u	1.533m	878.7m
8	1	11M	99.0u	-	-	548.8m
9	3	6M	78.6u	1.543m	999.4u	858.5m
10	1	17M	68.7u	-	-	13.30m
11	2	11M	95.5u	1.891m	-	1.009

Long Pulse Radar Test Signal
Test Signal Name: LP_Signal_27
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	10M	76.7u	-	-	673.8m
2	1	14M	73.4u	-	-	101.0m

3	1	7M	66.3u	-	-	627.6m
4	2	8M	94.7u	925.3u	-	459.4m
5	2	8M	91.0u	1.601m	-	418.1m
6	2	17M	61.2u	1.733m	-	20.00m
7	1	17M	95.2u	-	-	446.8m
8	2	18M	73.2u	1.035m	-	416.4m
9	2	11M	70.7u	1.457m	-	198.8m
10	2	10M	91.2u	992.8u	-	529.9m
11	1	16M	98.3u	-	-	451.7m
12	1	11M	71.2u	-	-	209.5m
13	2	19M	67.9u	1.587m	-	461.6m
14	1	15M	80.5u	-	-	139.4m
15	3	15M	61.1u	1.263m	1.727m	59.58m
16	2	18M	97.0u	1.331m	-	646.2m

Long Pulse Radar Test Signal
Test Signal Name: LP_Signal_28
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	16M	54.8u	1.356m	-	502.4m
2	3	17M	87.5u	1.841m	1.525m	189.0m
3	1	10M	98.2u	-	-	330.3m
4	1	15M	87.5u	-	-	499.5m
5	2	9M	59.5u	1.884m	-	284.4m
6	2	15M	78.5u	973.5u	-	26.62m
7	3	16M	94.1u	1.358m	1.885m	280.7m
8	2	8M	59.0u	1.384m	-	605.7m
9	1	19M	85.2u	-	-	99.09m
10	2	6M	78.5u	1.239m	-	312.8m
11	2	9M	81.5u	1.213m	-	291.5m
12	2	11M	73.9u	1.067m	-	163.2m
13	3	11M	65.2u	1.419m	1.024m	547.3m
14	2	14M	53.4u	1.626m	-	383.4m
15	2	19M	82.1u	1.783m	-	580.0m
16	1	18M	82.4u	-	-	328.5m
17	3	14M	64.8u	1.180m	1.084m	569.5m
18	3	11M	75.3u	1.660m	1.882m	509.0m
19	2	18M	58.5u	1.796m	-	502.4m

Long Pulse Radar Test Signal
Test Signal Name: LP_Signal_29
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	83.5u	1.202m	-	632.9m
2	3	12M	59.3u	942.7u	1.283m	1.066
3	2	5M	61.3u	1.316m	-	867.6m
4	3	8M	67.3u	1.689m	1.210m	892.3m
5	2	10M	55.0u	1.286m	-	1.019
6	3	11M	79.5u	1.239m	966.5u	662.7m
7	3	19M	69.1u	981.9u	1.409m	961.5m

8	1	16M	85.6u	-	-	590.3m
9	1	18M	72.8u	-	-	245.8m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_30

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	10M	67.3u	1.442m	-	889.3m
2	1	8M	98.9u	-	-	747.1m
3	2	15M	81.3u	1.387m	-	1.027
4	3	9M	87.0u	1.371m	1.078m	447.6m
5	1	9M	87.7u	-	-	588.8m
6	2	15M	53.1u	1.020m	-	141.9m
7	2	18M	72.3u	1.449m	-	634.3m
8	1	19M	52.7u	-	-	73.55m
9	2	15M	98.1u	1.595m	-	143.9m
10	3	9M	95.4u	1.412m	1.188m	603.2m

B.2 The Frequency Hopping Radar Pattern

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_01							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.565G	2	5.355G	3	5.685G	4	5.511G
5	5.424G	6	5.714G	7	5.386G	8	5.381G
9	5.302G	10	5.680G	11	5.345G	12	5.722G
13	5.358G	14	5.431G	15	5.579G	16	5.410G
17	5.283G	18	5.288G	19	5.275G	20	5.660G
21	5.594G	22	5.259G	23	5.709G	24	5.544G
25	5.580G	26	5.433G	27	5.530G	28	5.721G
29	5.518G	30	5.408G	31	5.512G	32	5.335G
33	5.274G	34	5.520G	35	5.305G	36	5.361G
37	5.573G	38	5.353G	39	5.552G	40	5.279G
41	5.572G	42	5.393G	43	5.465G	44	5.323G
45	5.597G	46	5.272G	47	5.488G	48	5.703G
49	5.416G	50	5.387G	51	5.567G	52	5.370G
53	5.499G	54	5.535G	55	5.350G	56	5.671G
57	5.548G	58	5.615G	59	5.432G	60	5.296G
61	5.555G	62	5.402G	63	5.687G	64	5.666G
65	5.588G	66	5.318G	67	5.614G	68	5.628G
69	5.563G	70	5.455G	71	5.672G	72	5.493G
73	5.394G	74	5.295G	75	5.657G	76	5.627G
77	5.673G	78	5.533G	79	5.400G	80	5.613G
81	5.342G	82	5.264G	83	5.599G	84	5.356G
85	5.262G	86	5.268G	87	5.439G	88	5.652G
89	5.329G	90	5.467G	91	5.367G	92	5.378G
93	5.344G	94	5.321G	95	5.308G	96	5.524G
97	5.300G	98	5.269G	99	5.442G	100	5.411G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_02							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.478G	2	5.426G	3	5.561G	4	5.272G
5	5.308G	6	5.443G	7	5.506G	8	5.498G
9	5.543G	10	5.346G	11	5.527G	12	5.707G
13	5.354G	14	5.299G	15	5.404G	16	5.618G
17	5.418G	18	5.421G	19	5.566G	20	5.415G
21	5.351G	22	5.367G	23	5.437G	24	5.564G
25	5.713G	26	5.407G	27	5.309G	28	5.629G
29	5.525G	30	5.311G	31	5.517G	32	5.605G
33	5.504G	34	5.275G	35	5.690G	36	5.399G
37	5.503G	38	5.555G	39	5.397G	40	5.388G
41	5.449G	42	5.522G	43	5.435G	44	5.577G
45	5.416G	46	5.582G	47	5.324G	48	5.444G
49	5.620G	50	5.273G	51	5.687G	52	5.318G
53	5.717G	54	5.724G	55	5.470G	56	5.383G
57	5.382G	58	5.373G	59	5.353G	60	5.509G
61	5.680G	62	5.455G	63	5.671G	64	5.283G
65	5.266G	66	5.316G	67	5.553G	68	5.647G

69	5.360G	70	5.627G	71	5.384G	72	5.302G
73	5.492G	74	5.549G	75	5.552G	76	5.600G
77	5.292G	78	5.573G	79	5.579G	80	5.405G
81	5.271G	82	5.361G	83	5.701G	84	5.476G
85	5.640G	86	5.372G	87	5.502G	88	5.425G
89	5.625G	90	5.643G	91	5.546G	92	5.377G
93	5.631G	94	5.473G	95	5.608G	96	5.286G
97	5.414G	98	5.636G	99	5.401G	100	5.621G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_03

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.430G	2	5.426G	3	5.573G	4	5.692G
5	5.442G	6	5.700G	7	5.572G	8	5.563G
9	5.263G	10	5.319G	11	5.531G	12	5.713G
13	5.334G	14	5.578G	15	5.462G	16	5.281G
17	5.413G	18	5.520G	19	5.543G	20	5.547G
21	5.468G	22	5.452G	23	5.485G	24	5.548G
25	5.280G	26	5.654G	27	5.522G	28	5.408G
29	5.437G	30	5.373G	31	5.273G	32	5.711G
33	5.665G	34	5.707G	35	5.262G	36	5.559G
37	5.597G	38	5.396G	39	5.521G	40	5.575G
41	5.345G	42	5.360G	43	5.720G	44	5.387G
45	5.515G	46	5.377G	47	5.628G	48	5.382G
49	5.513G	50	5.275G	51	5.634G	52	5.550G
53	5.414G	54	5.633G	55	5.403G	56	5.590G
57	5.362G	58	5.506G	59	5.466G	60	5.490G
61	5.574G	62	5.546G	63	5.593G	64	5.579G
65	5.536G	66	5.306G	67	5.398G	68	5.646G
69	5.609G	70	5.653G	71	5.523G	72	5.456G
73	5.569G	74	5.568G	75	5.693G	76	5.496G
77	5.625G	78	5.344G	79	5.435G	80	5.331G
81	5.669G	82	5.356G	83	5.272G	84	5.318G
85	5.301G	86	5.295G	87	5.673G	88	5.695G
89	5.478G	90	5.500G	91	5.422G	92	5.424G
93	5.385G	94	5.450G	95	5.600G	96	5.372G
97	5.670G	98	5.258G	99	5.415G	100	5.694G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_04

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.465G	2	5.626G	3	5.671G	4	5.630G
5	5.585G	6	5.565G	7	5.396G	8	5.308G
9	5.339G	10	5.295G	11	5.528G	12	5.264G
13	5.297G	14	5.686G	15	5.648G	16	5.665G
17	5.385G	18	5.261G	19	5.518G	20	5.337G
21	5.380G	22	5.293G	23	5.364G	24	5.257G
25	5.296G	26	5.616G	27	5.531G	28	5.428G
29	5.673G	30	5.448G	31	5.635G	32	5.426G
33	5.453G	34	5.377G	35	5.370G	36	5.629G
37	5.625G	38	5.663G	39	5.273G	40	5.642G
41	5.513G	42	5.413G	43	5.422G	44	5.284G

45	5.326G	46	5.628G	47	5.322G	48	5.490G
49	5.646G	50	5.717G	51	5.661G	52	5.652G
53	5.632G	54	5.619G	55	5.353G	56	5.699G
57	5.368G	58	5.558G	59	5.389G	60	5.255G
61	5.610G	62	5.411G	63	5.330G	64	5.265G
65	5.358G	66	5.390G	67	5.480G	68	5.576G
69	5.589G	70	5.263G	71	5.442G	72	5.711G
73	5.429G	74	5.684G	75	5.259G	76	5.670G
77	5.721G	78	5.455G	79	5.462G	80	5.478G
81	5.620G	82	5.554G	83	5.470G	84	5.621G
85	5.596G	86	5.303G	87	5.724G	88	5.511G
89	5.299G	90	5.501G	91	5.449G	92	5.366G
93	5.653G	94	5.701G	95	5.667G	96	5.458G
97	5.318G	98	5.266G	99	5.287G	100	5.584G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_05

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.491G	2	5.665G	3	5.415G	4	5.569G
5	5.321G	6	5.587G	7	5.348G	8	5.290G
9	5.385G	10	5.331G	11	5.493G	12	5.399G
13	5.451G	14	5.461G	15	5.338G	16	5.298G
17	5.517G	18	5.452G	19	5.649G	20	5.293G
21	5.702G	22	5.389G	23	5.523G	24	5.542G
25	5.411G	26	5.631G	27	5.369G	28	5.345G
29	5.590G	30	5.602G	31	5.719G	32	5.519G
33	5.666G	34	5.544G	35	5.383G	36	5.431G
37	5.254G	38	5.518G	39	5.330G	40	5.511G
41	5.443G	42	5.479G	43	5.304G	44	5.359G
45	5.718G	46	5.688G	47	5.545G	48	5.547G
49	5.633G	50	5.513G	51	5.257G	52	5.438G
53	5.382G	54	5.395G	55	5.664G	56	5.285G
57	5.583G	58	5.570G	59	5.274G	60	5.428G
61	5.672G	62	5.403G	63	5.414G	64	5.580G
65	5.352G	66	5.280G	67	5.483G	68	5.485G
69	5.627G	70	5.362G	71	5.715G	72	5.418G
73	5.653G	74	5.668G	75	5.713G	76	5.262G
77	5.396G	78	5.552G	79	5.261G	80	5.502G
81	5.593G	82	5.687G	83	5.458G	84	5.322G
85	5.347G	86	5.605G	87	5.648G	88	5.343G
89	5.717G	90	5.662G	91	5.524G	92	5.366G
93	5.566G	94	5.543G	95	5.455G	96	5.264G
97	5.473G	98	5.674G	99	5.464G	100	5.260G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_06

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.464G	2	5.431G	3	5.502G	4	5.500G
5	5.711G	6	5.533G	7	5.663G	8	5.620G
9	5.377G	10	5.416G	11	5.719G	12	5.687G
13	5.399G	14	5.610G	15	5.546G	16	5.476G
17	5.462G	18	5.280G	19	5.310G	20	5.443G

21	5.710G	22	5.514G	23	5.298G	24	5.297G
25	5.684G	26	5.472G	27	5.430G	28	5.553G
29	5.400G	30	5.348G	31	5.306G	32	5.572G
33	5.285G	34	5.511G	35	5.509G	36	5.633G
37	5.555G	38	5.271G	39	5.279G	40	5.655G
41	5.682G	42	5.609G	43	5.503G	44	5.385G
45	5.281G	46	5.498G	47	5.386G	48	5.405G
49	5.558G	50	5.679G	51	5.713G	52	5.496G
53	5.724G	54	5.404G	55	5.343G	56	5.654G
57	5.467G	58	5.640G	59	5.718G	60	5.439G
61	5.322G	62	5.534G	63	5.539G	64	5.660G
65	5.605G	66	5.317G	67	5.652G	68	5.453G
69	5.676G	70	5.333G	71	5.374G	72	5.282G
73	5.672G	74	5.370G	75	5.418G	76	5.550G
77	5.401G	78	5.363G	79	5.291G	80	5.414G
81	5.276G	82	5.648G	83	5.565G	84	5.350G
85	5.318G	86	5.274G	87	5.686G	88	5.366G
89	5.286G	90	5.606G	91	5.270G	92	5.454G
93	5.549G	94	5.564G	95	5.485G	96	5.597G
97	5.302G	98	5.486G	99	5.569G	100	5.300G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_07

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.724G	2	5.292G	3	5.510G	4	5.367G
5	5.474G	6	5.584G	7	5.392G	8	5.299G
9	5.432G	10	5.345G	11	5.613G	12	5.705G
13	5.316G	14	5.467G	15	5.635G	16	5.410G
17	5.529G	18	5.712G	19	5.323G	20	5.277G
21	5.715G	22	5.427G	23	5.273G	24	5.421G
25	5.335G	26	5.437G	27	5.456G	28	5.381G
29	5.496G	30	5.343G	31	5.681G	32	5.428G
33	5.701G	34	5.684G	35	5.374G	36	5.675G
37	5.714G	38	5.536G	39	5.569G	40	5.606G
41	5.284G	42	5.667G	43	5.673G	44	5.486G
45	5.709G	46	5.525G	47	5.520G	48	5.505G
49	5.360G	50	5.632G	51	5.685G	52	5.287G
53	5.286G	54	5.331G	55	5.708G	56	5.326G
57	5.583G	58	5.626G	59	5.455G	60	5.341G
61	5.570G	62	5.698G	63	5.557G	64	5.337G
65	5.322G	66	5.265G	67	5.454G	68	5.283G
69	5.250G	70	5.617G	71	5.301G	72	5.722G
73	5.645G	74	5.575G	75	5.258G	76	5.686G
77	5.622G	78	5.453G	79	5.638G	80	5.561G
81	5.619G	82	5.697G	83	5.464G	84	5.459G
85	5.500G	86	5.603G	87	5.509G	88	5.660G
89	5.627G	90	5.620G	91	5.495G	92	5.700G
93	5.363G	94	5.506G	95	5.339G	96	5.595G
97	5.539G	98	5.354G	99	5.440G	100	5.650G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_08

SEQ#	Frequency	SEQ#	Frequency	SEQ#	Frequency	SEQ#	Frequency
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	(Hz)		(Hz)		(Hz)		(Hz)
1	5.694G	2	5.661G	3	5.689G	4	5.699G
5	5.442G	6	5.497G	7	5.279G	8	5.443G
9	5.393G	10	5.323G	11	5.531G	12	5.481G
13	5.511G	14	5.400G	15	5.680G	16	5.402G
17	5.506G	18	5.660G	19	5.650G	20	5.521G
21	5.573G	22	5.468G	23	5.705G	24	5.297G
25	5.655G	26	5.293G	27	5.571G	28	5.591G
29	5.283G	30	5.537G	31	5.518G	32	5.551G
33	5.604G	34	5.652G	35	5.711G	36	5.623G
37	5.446G	38	5.361G	39	5.360G	40	5.712G
41	5.539G	42	5.658G	43	5.383G	44	5.470G
45	5.412G	46	5.418G	47	5.425G	48	5.473G
49	5.306G	50	5.606G	51	5.534G	52	5.348G
53	5.340G	54	5.441G	55	5.502G	56	5.405G
57	5.530G	58	5.253G	59	5.600G	60	5.523G
61	5.276G	62	5.657G	63	5.409G	64	5.644G
65	5.714G	66	5.467G	67	5.457G	68	5.611G
69	5.683G	70	5.607G	71	5.567G	72	5.654G
73	5.277G	74	5.449G	75	5.330G	76	5.697G
77	5.545G	78	5.520G	79	5.453G	80	5.394G
81	5.381G	82	5.483G	83	5.709G	84	5.337G
85	5.685G	86	5.668G	87	5.426G	88	5.342G
89	5.720G	90	5.316G	91	5.632G	92	5.427G
93	5.649G	94	5.371G	95	5.315G	96	5.421G
97	5.324G	98	5.695G	99	5.375G	100	5.708G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_09

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.530G	2	5.689G	3	5.308G	4	5.390G
5	5.636G	6	5.336G	7	5.420G	8	5.281G
9	5.630G	10	5.587G	11	5.374G	12	5.627G
13	5.645G	14	5.413G	15	5.701G	16	5.299G
17	5.523G	18	5.292G	19	5.560G	20	5.656G
21	5.436G	22	5.314G	23	5.643G	24	5.481G
25	5.574G	26	5.508G	27	5.612G	28	5.693G
29	5.460G	30	5.301G	31	5.703G	32	5.298G
33	5.447G	34	5.677G	35	5.621G	36	5.683G
37	5.619G	38	5.388G	39	5.525G	40	5.546G
41	5.323G	42	5.592G	43	5.461G	44	5.538G
45	5.250G	46	5.700G	47	5.651G	48	5.269G
49	5.507G	50	5.516G	51	5.397G	52	5.674G
53	5.267G	54	5.381G	55	5.600G	56	5.442G
57	5.666G	58	5.341G	59	5.254G	60	5.695G
61	5.315G	62	5.379G	63	5.597G	64	5.716G
65	5.428G	66	5.360G	67	5.589G	68	5.367G
69	5.626G	70	5.438G	71	5.623G	72	5.406G
73	5.618G	74	5.590G	75	5.686G	76	5.679G
77	5.521G	78	5.550G	79	5.416G	80	5.261G
81	5.622G	82	5.408G	83	5.345G	84	5.515G
85	5.432G	86	5.305G	87	5.485G	88	5.613G

89	5.551G	90	5.504G	91	5.480G	92	5.680G
93	5.363G	94	5.445G	95	5.462G	96	5.545G
97	5.329G	98	5.522G	99	5.359G	100	5.644G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_10

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.494G	2	5.343G	3	5.345G	4	5.276G
5	5.254G	6	5.486G	7	5.287G	8	5.468G
9	5.544G	10	5.435G	11	5.547G	12	5.284G
13	5.691G	14	5.294G	15	5.375G	16	5.330G
17	5.514G	18	5.499G	19	5.322G	20	5.664G
21	5.685G	22	5.413G	23	5.429G	24	5.670G
25	5.699G	26	5.559G	27	5.356G	28	5.394G
29	5.577G	30	5.480G	31	5.517G	32	5.672G
33	5.548G	34	5.599G	35	5.309G	36	5.336G
37	5.679G	38	5.707G	39	5.268G	40	5.290G
41	5.619G	42	5.687G	43	5.630G	44	5.531G
45	5.659G	46	5.608G	47	5.481G	48	5.259G
49	5.537G	50	5.634G	51	5.251G	52	5.430G
53	5.647G	54	5.447G	55	5.383G	56	5.506G
57	5.640G	58	5.657G	59	5.458G	60	5.521G
61	5.409G	62	5.628G	63	5.280G	64	5.305G
65	5.651G	66	5.304G	67	5.511G	68	5.401G
69	5.653G	70	5.455G	71	5.520G	72	5.650G
73	5.579G	74	5.656G	75	5.627G	76	5.362G
77	5.570G	78	5.571G	79	5.374G	80	5.392G
81	5.476G	82	5.689G	83	5.264G	84	5.652G
85	5.636G	86	5.277G	87	5.697G	88	5.436G
89	5.333G	90	5.321G	91	5.449G	92	5.298G
93	5.560G	94	5.631G	95	5.302G	96	5.285G
97	5.550G	98	5.609G	99	5.543G	100	5.558G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_11

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.275G	2	5.350G	3	5.596G	4	5.679G
5	5.443G	6	5.386G	7	5.378G	8	5.526G
9	5.399G	10	5.565G	11	5.582G	12	5.485G
13	5.388G	14	5.713G	15	5.643G	16	5.340G
17	5.585G	18	5.603G	19	5.365G	20	5.372G
21	5.542G	22	5.459G	23	5.355G	24	5.569G
25	5.348G	26	5.706G	27	5.556G	28	5.389G
29	5.506G	30	5.401G	31	5.421G	32	5.575G
33	5.648G	34	5.515G	35	5.636G	36	5.518G
37	5.522G	38	5.300G	39	5.715G	40	5.380G
41	5.562G	42	5.546G	43	5.543G	44	5.337G
45	5.445G	46	5.693G	47	5.397G	48	5.638G
49	5.439G	50	5.501G	51	5.264G	52	5.629G
53	5.521G	54	5.564G	55	5.279G	56	5.319G
57	5.593G	58	5.605G	59	5.454G	60	5.486G
61	5.610G	62	5.453G	63	5.571G	64	5.634G

65	5.502G	66	5.282G	67	5.253G	68	5.497G
69	5.682G	70	5.341G	71	5.701G	72	5.321G
73	5.604G	74	5.427G	75	5.644G	76	5.368G
77	5.595G	78	5.669G	79	5.308G	80	5.697G
81	5.536G	82	5.329G	83	5.259G	84	5.258G
85	5.416G	86	5.617G	87	5.356G	88	5.688G
89	5.661G	90	5.315G	91	5.602G	92	5.489G
93	5.490G	94	5.553G	95	5.359G	96	5.297G
97	5.606G	98	5.418G	99	5.687G	100	5.466G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_12

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.671G	2	5.423G	3	5.425G	4	5.658G
5	5.474G	6	5.627G	7	5.590G	8	5.651G
9	5.700G	10	5.695G	11	5.677G	12	5.601G
13	5.703G	14	5.702G	15	5.557G	16	5.345G
17	5.657G	18	5.456G	19	5.251G	20	5.309G
21	5.711G	22	5.582G	23	5.467G	24	5.661G
25	5.437G	26	5.263G	27	5.664G	28	5.527G
29	5.718G	30	5.520G	31	5.426G	32	5.285G
33	5.610G	34	5.576G	35	5.262G	36	5.556G
37	5.372G	38	5.281G	39	5.302G	40	5.478G
41	5.628G	42	5.298G	43	5.361G	44	5.560G
45	5.589G	46	5.391G	47	5.432G	48	5.315G
49	5.305G	50	5.429G	51	5.342G	52	5.419G
53	5.387G	54	5.724G	55	5.297G	56	5.675G
57	5.363G	58	5.678G	59	5.550G	60	5.534G
61	5.455G	62	5.494G	63	5.630G	64	5.490G
65	5.364G	66	5.371G	67	5.393G	68	5.533G
69	5.583G	70	5.397G	71	5.487G	72	5.594G
73	5.374G	74	5.457G	75	5.325G	76	5.621G
77	5.537G	78	5.341G	79	5.322G	80	5.485G
81	5.672G	82	5.334G	83	5.357G	84	5.662G
85	5.604G	86	5.602G	87	5.324G	88	5.278G
89	5.564G	90	5.689G	91	5.316G	92	5.473G
93	5.599G	94	5.356G	95	5.292G	96	5.435G
97	5.330G	98	5.470G	99	5.626G	100	5.687G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_13

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.654G	2	5.622G	3	5.699G	4	5.289G
5	5.624G	6	5.571G	7	5.693G	8	5.369G
9	5.644G	10	5.478G	11	5.383G	12	5.504G
13	5.683G	14	5.435G	15	5.271G	16	5.485G
17	5.394G	18	5.438G	19	5.503G	20	5.553G
21	5.542G	22	5.356G	23	5.632G	24	5.407G
25	5.616G	26	5.682G	27	5.586G	28	5.288G
29	5.378G	30	5.691G	31	5.261G	32	5.595G
33	5.719G	34	5.251G	35	5.457G	36	5.692G
37	5.418G	38	5.428G	39	5.462G	40	5.413G

41	5.619G	42	5.703G	43	5.396G	44	5.279G
45	5.477G	46	5.447G	47	5.473G	48	5.561G
49	5.294G	50	5.652G	51	5.293G	52	5.591G
53	5.411G	54	5.642G	55	5.254G	56	5.658G
57	5.476G	58	5.493G	59	5.559G	60	5.448G
61	5.361G	62	5.634G	63	5.549G	64	5.387G
65	5.544G	66	5.278G	67	5.672G	68	5.322G
69	5.552G	70	5.562G	71	5.390G	72	5.381G
73	5.507G	74	5.433G	75	5.302G	76	5.371G
77	5.528G	78	5.296G	79	5.578G	80	5.286G
81	5.422G	82	5.408G	83	5.401G	84	5.656G
85	5.611G	86	5.386G	87	5.318G	88	5.497G
89	5.253G	90	5.496G	91	5.675G	92	5.535G
93	5.339G	94	5.487G	95	5.599G	96	5.547G
97	5.346G	98	5.414G	99	5.721G	100	5.679G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_14

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.539G	2	5.379G	3	5.640G	4	5.316G
5	5.474G	6	5.516G	7	5.693G	8	5.267G
9	5.600G	10	5.521G	11	5.691G	12	5.353G
13	5.588G	14	5.467G	15	5.602G	16	5.718G
17	5.578G	18	5.438G	19	5.604G	20	5.410G
21	5.350G	22	5.561G	23	5.369G	24	5.381G
25	5.569G	26	5.651G	27	5.286G	28	5.385G
29	5.265G	30	5.589G	31	5.548G	32	5.346G
33	5.468G	34	5.671G	35	5.665G	36	5.421G
37	5.293G	38	5.532G	39	5.655G	40	5.667G
41	5.392G	42	5.491G	43	5.386G	44	5.724G
45	5.476G	46	5.362G	47	5.319G	48	5.486G
49	5.545G	50	5.638G	51	5.437G	52	5.373G
53	5.390G	54	5.559G	55	5.266G	56	5.681G
57	5.715G	58	5.535G	59	5.492G	60	5.536G
61	5.688G	62	5.687G	63	5.639G	64	5.488G
65	5.459G	66	5.355G	67	5.483G	68	5.625G
69	5.550G	70	5.659G	71	5.611G	72	5.533G
73	5.624G	74	5.394G	75	5.502G	76	5.477G
77	5.592G	78	5.442G	79	5.277G	80	5.428G
81	5.398G	82	5.487G	83	5.281G	84	5.682G
85	5.647G	86	5.257G	87	5.375G	88	5.628G
89	5.484G	90	5.702G	91	5.565G	92	5.340G
93	5.609G	94	5.426G	95	5.668G	96	5.395G
97	5.256G	98	5.716G	99	5.284G	100	5.360G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_15

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.649G	2	5.388G	3	5.485G	4	5.598G
5	5.601G	6	5.596G	7	5.688G	8	5.432G
9	5.433G	10	5.500G	11	5.306G	12	5.622G
13	5.320G	14	5.296G	15	5.364G	16	5.544G

17	5.283G	18	5.597G	19	5.258G	20	5.360G
21	5.641G	22	5.618G	23	5.442G	24	5.557G
25	5.584G	26	5.560G	27	5.256G	28	5.506G
29	5.408G	30	5.559G	31	5.255G	32	5.466G
33	5.269G	34	5.644G	35	5.309G	36	5.720G
37	5.654G	38	5.451G	39	5.452G	40	5.589G
41	5.553G	42	5.562G	43	5.672G	44	5.479G
45	5.270G	46	5.334G	47	5.278G	48	5.693G
49	5.491G	50	5.259G	51	5.509G	52	5.588G
53	5.518G	54	5.363G	55	5.424G	56	5.265G
57	5.470G	58	5.488G	59	5.298G	60	5.315G
61	5.330G	62	5.700G	63	5.546G	64	5.698G
65	5.318G	66	5.626G	67	5.591G	68	5.517G
69	5.355G	70	5.469G	71	5.545G	72	5.474G
73	5.712G	74	5.687G	75	5.412G	76	5.675G
77	5.556G	78	5.297G	79	5.686G	80	5.480G
81	5.608G	82	5.655G	83	5.317G	84	5.260G
85	5.344G	86	5.426G	87	5.607G	88	5.267G
89	5.690G	90	5.721G	91	5.543G	92	5.434G
93	5.406G	94	5.625G	95	5.536G	96	5.429G
97	5.508G	98	5.704G	99	5.623G	100	5.651G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_16

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.562G	2	5.322G	3	5.600G	4	5.649G
5	5.634G	6	5.338G	7	5.589G	8	5.372G
9	5.713G	10	5.261G	11	5.490G	12	5.254G
13	5.371G	14	5.441G	15	5.434G	16	5.514G
17	5.448G	18	5.333G	19	5.447G	20	5.264G
21	5.284G	22	5.474G	23	5.695G	24	5.290G
25	5.672G	26	5.673G	27	5.445G	28	5.596G
29	5.378G	30	5.350G	31	5.688G	32	5.510G
33	5.419G	34	5.315G	35	5.376G	36	5.397G
37	5.285G	38	5.707G	39	5.444G	40	5.370G
41	5.504G	42	5.351G	43	5.690G	44	5.304G
45	5.480G	46	5.275G	47	5.531G	48	5.696G
49	5.710G	50	5.452G	51	5.667G	52	5.702G
53	5.332G	54	5.281G	55	5.308G	56	5.250G
57	5.282G	58	5.544G	59	5.324G	60	5.418G
61	5.543G	62	5.527G	63	5.692G	64	5.513G
65	5.455G	66	5.546G	67	5.507G	68	5.578G
69	5.417G	70	5.364G	71	5.559G	72	5.636G
73	5.336G	74	5.676G	75	5.541G	76	5.361G
77	5.379G	78	5.380G	79	5.292G	80	5.366G
81	5.353G	82	5.711G	83	5.662G	84	5.279G
85	5.403G	86	5.343G	87	5.491G	88	5.297G
89	5.506G	90	5.318G	91	5.257G	92	5.415G
93	5.540G	94	5.413G	95	5.687G	96	5.311G
97	5.502G	98	5.536G	99	5.666G	100	5.265G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_17

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.677G	2	5.389G	3	5.690G	4	5.300G
5	5.534G	6	5.361G	7	5.487G	8	5.713G
9	5.723G	10	5.501G	11	5.262G	12	5.405G
13	5.676G	14	5.503G	15	5.305G	16	5.352G
17	5.509G	18	5.318G	19	5.398G	20	5.547G
21	5.353G	22	5.397G	23	5.417G	24	5.456G
25	5.644G	26	5.555G	27	5.580G	28	5.407G
29	5.469G	30	5.636G	31	5.609G	32	5.541G
33	5.425G	34	5.678G	35	5.266G	36	5.543G
37	5.372G	38	5.706G	39	5.513G	40	5.688G
41	5.445G	42	5.426G	43	5.430G	44	5.387G
45	5.617G	46	5.539G	47	5.369G	48	5.590G
49	5.682G	50	5.377G	51	5.323G	52	5.633G
53	5.280G	54	5.373G	55	5.357G	56	5.686G
57	5.627G	58	5.522G	59	5.493G	60	5.546G
61	5.485G	62	5.360G	63	5.518G	64	5.552G
65	5.362G	66	5.301G	67	5.693G	68	5.670G
69	5.403G	70	5.589G	71	5.386G	72	5.448G
73	5.290G	74	5.251G	75	5.481G	76	5.432G
77	5.401G	78	5.271G	79	5.256G	80	5.412G
81	5.263G	82	5.457G	83	5.494G	84	5.400G
85	5.587G	86	5.510G	87	5.527G	88	5.390G
89	5.669G	90	5.329G	91	5.452G	92	5.278G
93	5.408G	94	5.276G	95	5.700G	96	5.298G
97	5.577G	98	5.473G	99	5.585G	100	5.482G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_18

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.432G	2	5.347G	3	5.515G	4	5.638G
5	5.585G	6	5.533G	7	5.494G	8	5.690G
9	5.545G	10	5.710G	11	5.538G	12	5.619G
13	5.623G	14	5.462G	15	5.259G	16	5.557G
17	5.525G	18	5.572G	19	5.330G	20	5.666G
21	5.414G	22	5.566G	23	5.438G	24	5.688G
25	5.703G	26	5.305G	27	5.382G	28	5.275G
29	5.351G	30	5.654G	31	5.486G	32	5.523G
33	5.717G	34	5.288G	35	5.595G	36	5.293G
37	5.632G	38	5.660G	39	5.424G	40	5.656G
41	5.706G	42	5.459G	43	5.426G	44	5.473G
45	5.636G	46	5.370G	47	5.665G	48	5.282G
49	5.478G	50	5.455G	51	5.568G	52	5.256G
53	5.430G	54	5.323G	55	5.331G	56	5.643G
57	5.265G	58	5.267G	59	5.647G	60	5.506G
61	5.451G	62	5.626G	63	5.658G	64	5.633G
65	5.407G	66	5.637G	67	5.676G	68	5.603G
69	5.283G	70	5.674G	71	5.693G	72	5.469G
73	5.613G	74	5.338G	75	5.435G	76	5.318G
77	5.399G	78	5.590G	79	5.622G	80	5.403G
81	5.618G	82	5.565G	83	5.541G	84	5.296G

85	5.418G	86	5.470G	87	5.261G	88	5.287G
89	5.714G	90	5.509G	91	5.500G	92	5.527G
93	5.442G	94	5.599G	95	5.564G	96	5.409G
97	5.301G	98	5.487G	99	5.625G	100	5.429G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_19

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.511G	2	5.556G	3	5.639G	4	5.394G
5	5.441G	6	5.465G	7	5.584G	8	5.638G
9	5.401G	10	5.565G	11	5.436G	12	5.484G
13	5.443G	14	5.479G	15	5.643G	16	5.500G
17	5.289G	18	5.610G	19	5.529G	20	5.298G
21	5.349G	22	5.548G	23	5.640G	24	5.345G
25	5.720G	26	5.486G	27	5.496G	28	5.560G
29	5.682G	30	5.648G	31	5.426G	32	5.438G
33	5.543G	34	5.588G	35	5.697G	36	5.714G
37	5.284G	38	5.448G	39	5.597G	40	5.707G
41	5.523G	42	5.599G	43	5.619G	44	5.323G
45	5.695G	46	5.302G	47	5.507G	48	5.723G
49	5.494G	50	5.418G	51	5.483G	52	5.608G
53	5.346G	54	5.390G	55	5.673G	56	5.578G
57	5.510G	58	5.705G	59	5.696G	60	5.307G
61	5.409G	62	5.678G	63	5.300G	64	5.347G
65	5.573G	66	5.654G	67	5.416G	68	5.519G
69	5.299G	70	5.424G	71	5.526G	72	5.702G
73	5.521G	74	5.370G	75	5.385G	76	5.254G
77	5.531G	78	5.275G	79	5.410G	80	5.251G
81	5.285G	82	5.677G	83	5.493G	84	5.460G
85	5.633G	86	5.681G	87	5.395G	88	5.596G
89	5.391G	90	5.462G	91	5.621G	92	5.515G
93	5.518G	94	5.308G	95	5.631G	96	5.250G
97	5.415G	98	5.379G	99	5.542G	100	5.459G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_20

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.478G	2	5.274G	3	5.253G	4	5.273G
5	5.594G	6	5.510G	7	5.438G	8	5.252G
9	5.389G	10	5.467G	11	5.460G	12	5.416G
13	5.357G	14	5.334G	15	5.658G	16	5.699G
17	5.419G	18	5.526G	19	5.579G	20	5.581G
21	5.260G	22	5.368G	23	5.486G	24	5.370G
25	5.580G	26	5.367G	27	5.366G	28	5.611G
29	5.385G	30	5.270G	31	5.588G	32	5.263G
33	5.516G	34	5.722G	35	5.509G	36	5.428G
37	5.666G	38	5.706G	39	5.405G	40	5.399G
41	5.278G	42	5.387G	43	5.648G	44	5.282G
45	5.616G	46	5.527G	47	5.671G	48	5.456G
49	5.300G	50	5.585G	51	5.518G	52	5.369G
53	5.567G	54	5.267G	55	5.512G	56	5.308G
57	5.577G	58	5.695G	59	5.336G	60	5.454G

61	5.414G	62	5.667G	63	5.262G	64	5.431G
65	5.316G	66	5.713G	67	5.353G	68	5.421G
69	5.549G	70	5.676G	71	5.501G	72	5.591G
73	5.468G	74	5.620G	75	5.612G	76	5.688G
77	5.573G	78	5.422G	79	5.552G	80	5.417G
81	5.415G	82	5.406G	83	5.455G	84	5.655G
85	5.324G	86	5.632G	87	5.349G	88	5.435G
89	5.718G	90	5.286G	91	5.354G	92	5.564G
93	5.319G	94	5.697G	95	5.325G	96	5.553G
97	5.520G	98	5.592G	99	5.669G	100	5.569G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_21

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.690G	2	5.402G	3	5.694G	4	5.401G
5	5.628G	6	5.361G	7	5.474G	8	5.351G
9	5.381G	10	5.600G	11	5.667G	12	5.634G
13	5.550G	14	5.581G	15	5.404G	16	5.414G
17	5.537G	18	5.428G	19	5.284G	20	5.448G
21	5.459G	22	5.530G	23	5.264G	24	5.559G
25	5.680G	26	5.609G	27	5.311G	28	5.607G
29	5.320G	30	5.603G	31	5.601G	32	5.393G
33	5.291G	34	5.517G	35	5.299G	36	5.608G
37	5.319G	38	5.626G	39	5.703G	40	5.396G
41	5.306G	42	5.705G	43	5.315G	44	5.522G
45	5.476G	46	5.691G	47	5.300G	48	5.276G
49	5.395G	50	5.562G	51	5.420G	52	5.645G
53	5.413G	54	5.348G	55	5.434G	56	5.699G
57	5.683G	58	5.451G	59	5.620G	60	5.544G
61	5.524G	62	5.337G	63	5.724G	64	5.386G
65	5.398G	66	5.318G	67	5.365G	68	5.503G
69	5.369G	70	5.506G	71	5.534G	72	5.671G
73	5.560G	74	5.341G	75	5.689G	76	5.538G
77	5.301G	78	5.491G	79	5.258G	80	5.262G
81	5.539G	82	5.281G	83	5.389G	84	5.435G
85	5.294G	86	5.658G	87	5.504G	88	5.574G
89	5.529G	90	5.377G	91	5.606G	92	5.640G
93	5.664G	94	5.654G	95	5.378G	96	5.374G
97	5.316G	98	5.449G	99	5.635G	100	5.674G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_22

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.336G	2	5.405G	3	5.575G	4	5.251G
5	5.705G	6	5.332G	7	5.407G	8	5.467G
9	5.377G	10	5.500G	11	5.577G	12	5.635G
13	5.426G	14	5.297G	15	5.615G	16	5.368G
17	5.535G	18	5.560G	19	5.360G	20	5.416G
21	5.566G	22	5.580G	23	5.597G	24	5.491G
25	5.649G	26	5.586G	27	5.300G	28	5.310G
29	5.549G	30	5.583G	31	5.475G	32	5.276G
33	5.596G	34	5.538G	35	5.278G	36	5.341G

37	5.571G	38	5.364G	39	5.296G	40	5.406G
41	5.644G	42	5.558G	43	5.613G	44	5.264G
45	5.302G	46	5.514G	47	5.688G	48	5.431G
49	5.308G	50	5.518G	51	5.699G	52	5.433G
53	5.334G	54	5.477G	55	5.528G	56	5.293G
57	5.554G	58	5.429G	59	5.397G	60	5.305G
61	5.451G	62	5.440G	63	5.347G	64	5.447G
65	5.513G	66	5.321G	67	5.258G	68	5.522G
69	5.459G	70	5.638G	71	5.656G	72	5.565G
73	5.653G	74	5.545G	75	5.351G	76	5.346G
77	5.572G	78	5.607G	79	5.388G	80	5.333G
81	5.411G	82	5.366G	83	5.306G	84	5.567G
85	5.464G	86	5.609G	87	5.617G	88	5.561G
89	5.646G	90	5.551G	91	5.539G	92	5.536G
93	5.633G	94	5.352G	95	5.458G	96	5.621G
97	5.553G	98	5.455G	99	5.486G	100	5.267G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_23

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.676G	2	5.658G	3	5.492G	4	5.675G
5	5.490G	6	5.550G	7	5.510G	8	5.618G
9	5.601G	10	5.538G	11	5.546G	12	5.649G
13	5.284G	14	5.603G	15	5.368G	16	5.384G
17	5.426G	18	5.353G	19	5.547G	20	5.255G
21	5.293G	22	5.522G	23	5.657G	24	5.527G
25	5.342G	26	5.332G	27	5.359G	28	5.687G
29	5.633G	30	5.585G	31	5.433G	32	5.388G
33	5.670G	34	5.486G	35	5.698G	36	5.498G
37	5.343G	38	5.626G	39	5.573G	40	5.563G
41	5.543G	42	5.370G	43	5.526G	44	5.723G
45	5.713G	46	5.655G	47	5.506G	48	5.557G
49	5.544G	50	5.291G	51	5.661G	52	5.303G
53	5.264G	54	5.531G	55	5.715G	56	5.591G
57	5.575G	58	5.390G	59	5.420G	60	5.394G
61	5.639G	62	5.392G	63	5.496G	64	5.691G
65	5.321G	66	5.548G	67	5.669G	68	5.318G
69	5.281G	70	5.275G	71	5.283G	72	5.448G
73	5.410G	74	5.408G	75	5.457G	76	5.663G
77	5.561G	78	5.592G	79	5.441G	80	5.443G
81	5.478G	82	5.317G	83	5.608G	84	5.308G
85	5.401G	86	5.419G	87	5.699G	88	5.632G
89	5.674G	90	5.621G	91	5.362G	92	5.406G
93	5.354G	94	5.482G	95	5.447G	96	5.671G
97	5.581G	98	5.324G	99	5.413G	100	5.380G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_24

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.261G	2	5.291G	3	5.372G	4	5.687G
5	5.585G	6	5.422G	7	5.424G	8	5.614G
9	5.404G	10	5.288G	11	5.390G	12	5.271G

13	5.675G	14	5.499G	15	5.463G	16	5.450G
17	5.383G	18	5.324G	19	5.527G	20	5.394G
21	5.722G	22	5.464G	23	5.617G	24	5.321G
25	5.353G	26	5.695G	27	5.665G	28	5.465G
29	5.673G	30	5.371G	31	5.299G	32	5.269G
33	5.584G	34	5.706G	35	5.535G	36	5.388G
37	5.292G	38	5.315G	39	5.546G	40	5.369G
41	5.319G	42	5.413G	43	5.470G	44	5.635G
45	5.684G	46	5.403G	47	5.379G	48	5.487G
49	5.304G	50	5.615G	51	5.270G	52	5.640G
53	5.621G	54	5.723G	55	5.445G	56	5.323G
57	5.590G	58	5.478G	59	5.434G	60	5.301G
61	5.436G	62	5.474G	63	5.710G	64	5.624G
65	5.616G	66	5.514G	67	5.701G	68	5.311G
69	5.588G	70	5.605G	71	5.505G	72	5.690G
73	5.530G	74	5.504G	75	5.685G	76	5.604G
77	5.279G	78	5.392G	79	5.627G	80	5.539G
81	5.488G	82	5.485G	83	5.595G	84	5.281G
85	5.565G	86	5.427G	87	5.620G	88	5.688G
89	5.531G	90	5.267G	91	5.399G	92	5.515G
93	5.259G	94	5.374G	95	5.476G	96	5.258G
97	5.558G	98	5.256G	99	5.702G	100	5.473G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_25

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.345G	2	5.314G	3	5.269G	4	5.377G
5	5.527G	6	5.296G	7	5.525G	8	5.669G
9	5.622G	10	5.668G	11	5.558G	12	5.336G
13	5.603G	14	5.643G	15	5.264G	16	5.476G
17	5.610G	18	5.437G	19	5.423G	20	5.384G
21	5.504G	22	5.573G	23	5.724G	24	5.523G
25	5.396G	26	5.550G	27	5.634G	28	5.588G
29	5.647G	30	5.599G	31	5.331G	32	5.488G
33	5.378G	34	5.451G	35	5.467G	36	5.424G
37	5.293G	38	5.256G	39	5.717G	40	5.353G
41	5.546G	42	5.544G	43	5.720G	44	5.390G
45	5.454G	46	5.346G	47	5.338G	48	5.561G
49	5.364G	50	5.541G	51	5.288G	52	5.549G
53	5.521G	54	5.721G	55	5.272G	56	5.432G
57	5.407G	58	5.362G	59	5.429G	60	5.266G
61	5.430G	62	5.641G	63	5.317G	64	5.666G
65	5.572G	66	5.569G	67	5.715G	68	5.718G
69	5.295G	70	5.340G	71	5.465G	72	5.391G
73	5.325G	74	5.694G	75	5.258G	76	5.408G
77	5.506G	78	5.615G	79	5.305G	80	5.538G
81	5.494G	82	5.466G	83	5.707G	84	5.456G
85	5.567G	86	5.701G	87	5.595G	88	5.620G
89	5.464G	90	5.393G	91	5.679G	92	5.659G
93	5.352G	94	5.621G	95	5.274G	96	5.339G
97	5.495G	98	5.405G	99	5.448G	100	5.446G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_26

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.594G	2	5.584G	3	5.634G	4	5.621G
5	5.256G	6	5.507G	7	5.321G	8	5.352G
9	5.497G	10	5.529G	11	5.471G	12	5.717G
13	5.277G	14	5.307G	15	5.514G	16	5.604G
17	5.413G	18	5.536G	19	5.306G	20	5.262G
21	5.605G	22	5.556G	23	5.650G	24	5.501G
25	5.484G	26	5.447G	27	5.723G	28	5.393G
29	5.386G	30	5.652G	31	5.708G	32	5.459G
33	5.551G	34	5.599G	35	5.642G	36	5.325G
37	5.573G	38	5.478G	39	5.347G	40	5.568G
41	5.264G	42	5.611G	43	5.580G	44	5.357G
45	5.721G	46	5.707G	47	5.544G	48	5.426G
49	5.324G	50	5.541G	51	5.616G	52	5.336G
53	5.689G	54	5.638G	55	5.534G	56	5.690G
57	5.566G	58	5.283G	59	5.596G	60	5.448G
61	5.338G	62	5.409G	63	5.623G	64	5.543G
65	5.297G	66	5.651G	67	5.358G	68	5.355G
69	5.526G	70	5.458G	71	5.559G	72	5.603G
73	5.490G	74	5.280G	75	5.335G	76	5.285G
77	5.608G	78	5.405G	79	5.655G	80	5.674G
81	5.677G	82	5.520G	83	5.539G	84	5.719G
85	5.632G	86	5.365G	87	5.292G	88	5.720G
89	5.688G	90	5.613G	91	5.600G	92	5.614G
93	5.685G	94	5.563G	95	5.390G	96	5.404G
97	5.502G	98	5.647G	99	5.334G	100	5.270G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_27

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.499G	2	5.607G	3	5.477G	4	5.457G
5	5.632G	6	5.501G	7	5.612G	8	5.496G
9	5.418G	10	5.608G	11	5.714G	12	5.702G
13	5.361G	14	5.458G	15	5.439G	16	5.556G
17	5.623G	18	5.581G	19	5.597G	20	5.557G
21	5.561G	22	5.286G	23	5.519G	24	5.498G
25	5.272G	26	5.487G	27	5.722G	28	5.625G
29	5.666G	30	5.372G	31	5.475G	32	5.482G
33	5.305G	34	5.670G	35	5.656G	36	5.369G
37	5.639G	38	5.438G	39	5.419G	40	5.701G
41	5.684G	42	5.459G	43	5.503G	44	5.510G
45	5.617G	46	5.464G	47	5.416G	48	5.615G
49	5.288G	50	5.696G	51	5.277G	52	5.374G
53	5.461G	54	5.441G	55	5.692G	56	5.583G
57	5.309G	58	5.674G	59	5.293G	60	5.590G
61	5.323G	62	5.717G	63	5.433G	64	5.573G
65	5.534G	66	5.409G	67	5.467G	68	5.266G
69	5.315G	70	5.344G	71	5.408G	72	5.626G
73	5.265G	74	5.404G	75	5.417G	76	5.635G
77	5.256G	78	5.399G	79	5.691G	80	5.554G

81	5.269G	82	5.598G	83	5.281G	84	5.525G
85	5.285G	86	5.660G	87	5.431G	88	5.569G
89	5.704G	90	5.342G	91	5.547G	92	5.681G
93	5.253G	94	5.526G	95	5.628G	96	5.298G
97	5.537G	98	5.350G	99	5.330G	100	5.541G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_28

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.386G	2	5.581G	3	5.380G	4	5.297G
5	5.664G	6	5.341G	7	5.506G	8	5.594G
9	5.621G	10	5.334G	11	5.324G	12	5.722G
13	5.562G	14	5.530G	15	5.365G	16	5.489G
17	5.325G	18	5.518G	19	5.344G	20	5.684G
21	5.608G	22	5.628G	23	5.546G	24	5.584G
25	5.382G	26	5.418G	27	5.378G	28	5.582G
29	5.361G	30	5.326G	31	5.305G	32	5.638G
33	5.483G	34	5.517G	35	5.422G	36	5.280G
37	5.456G	38	5.713G	39	5.595G	40	5.504G
41	5.579G	42	5.500G	43	5.488G	44	5.388G
45	5.392G	46	5.354G	47	5.335G	48	5.339G
49	5.262G	50	5.569G	51	5.697G	52	5.532G
53	5.537G	54	5.315G	55	5.576G	56	5.690G
57	5.656G	58	5.515G	59	5.316G	60	5.590G
61	5.269G	62	5.565G	63	5.573G	64	5.445G
65	5.561G	66	5.359G	67	5.591G	68	5.651G
69	5.343G	70	5.371G	71	5.254G	72	5.384G
73	5.535G	74	5.587G	75	5.267G	76	5.622G
77	5.357G	78	5.408G	79	5.524G	80	5.385G
81	5.496G	82	5.644G	83	5.304G	84	5.405G
85	5.291G	86	5.455G	87	5.441G	88	5.466G
89	5.558G	90	5.487G	91	5.719G	92	5.649G
93	5.360G	94	5.437G	95	5.278G	96	5.609G
97	5.401G	98	5.336G	99	5.444G	100	5.420G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_29

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.375G	2	5.535G	3	5.499G	4	5.372G
5	5.700G	6	5.657G	7	5.471G	8	5.451G
9	5.271G	10	5.441G	11	5.684G	12	5.552G
13	5.325G	14	5.644G	15	5.374G	16	5.443G
17	5.378G	18	5.680G	19	5.647G	20	5.485G
21	5.284G	22	5.358G	23	5.583G	24	5.352G
25	5.317G	26	5.260G	27	5.655G	28	5.468G
29	5.478G	30	5.504G	31	5.635G	32	5.622G
33	5.362G	34	5.256G	35	5.439G	36	5.543G
37	5.405G	38	5.502G	39	5.501G	40	5.365G
41	5.397G	42	5.321G	43	5.304G	44	5.460G
45	5.251G	46	5.620G	47	5.634G	48	5.636G
49	5.493G	50	5.606G	51	5.708G	52	5.630G
53	5.330G	54	5.670G	55	5.516G	56	5.254G

57	5.711G	58	5.322G	59	5.665G	60	5.520G
61	5.326G	62	5.366G	63	5.404G	64	5.563G
65	5.263G	66	5.411G	67	5.436G	68	5.540G
69	5.272G	70	5.669G	71	5.689G	72	5.286G
73	5.348G	74	5.302G	75	5.651G	76	5.299G
77	5.616G	78	5.706G	79	5.473G	80	5.572G
81	5.310G	82	5.290G	83	5.369G	84	5.480G
85	5.341G	86	5.722G	87	5.314G	88	5.483G
89	5.515G	90	5.575G	91	5.526G	92	5.388G
93	5.672G	94	5.349G	95	5.266G	96	5.306G
97	5.643G	98	5.566G	99	5.417G	100	5.715G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_30							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.688G	2	5.593G	3	5.530G	4	5.349G
5	5.460G	6	5.559G	7	5.696G	8	5.697G
9	5.606G	10	5.253G	11	5.587G	12	5.468G
13	5.271G	14	5.486G	15	5.649G	16	5.419G
17	5.528G	18	5.618G	19	5.458G	20	5.395G
21	5.465G	22	5.307G	23	5.679G	24	5.376G
25	5.532G	26	5.583G	27	5.263G	28	5.325G
29	5.553G	30	5.344G	31	5.695G	32	5.492G
33	5.461G	34	5.455G	35	5.518G	36	5.539G
37	5.537G	38	5.723G	39	5.628G	40	5.384G
41	5.711G	42	5.277G	43	5.258G	44	5.705G
45	5.517G	46	5.627G	47	5.479G	48	5.485G
49	5.381G	50	5.324G	51	5.491G	52	5.396G
53	5.300G	54	5.580G	55	5.363G	56	5.303G
57	5.571G	58	5.389G	59	5.252G	60	5.317G
61	5.607G	62	5.540G	63	5.272G	64	5.623G
65	5.447G	66	5.669G	67	5.674G	68	5.538G
69	5.293G	70	5.251G	71	5.342G	72	5.411G
73	5.704G	74	5.284G	75	5.326G	76	5.589G
77	5.442G	78	5.682G	79	5.597G	80	5.350G
81	5.661G	82	5.626G	83	5.372G	84	5.393G
85	5.435G	86	5.525G	87	5.280G	88	5.681G
89	5.469G	90	5.425G	91	5.650G	92	5.670G
93	5.715G	94	5.337G	95	5.391G	96	5.423G
97	5.556G	98	5.608G	99	5.600G	100	5.591G

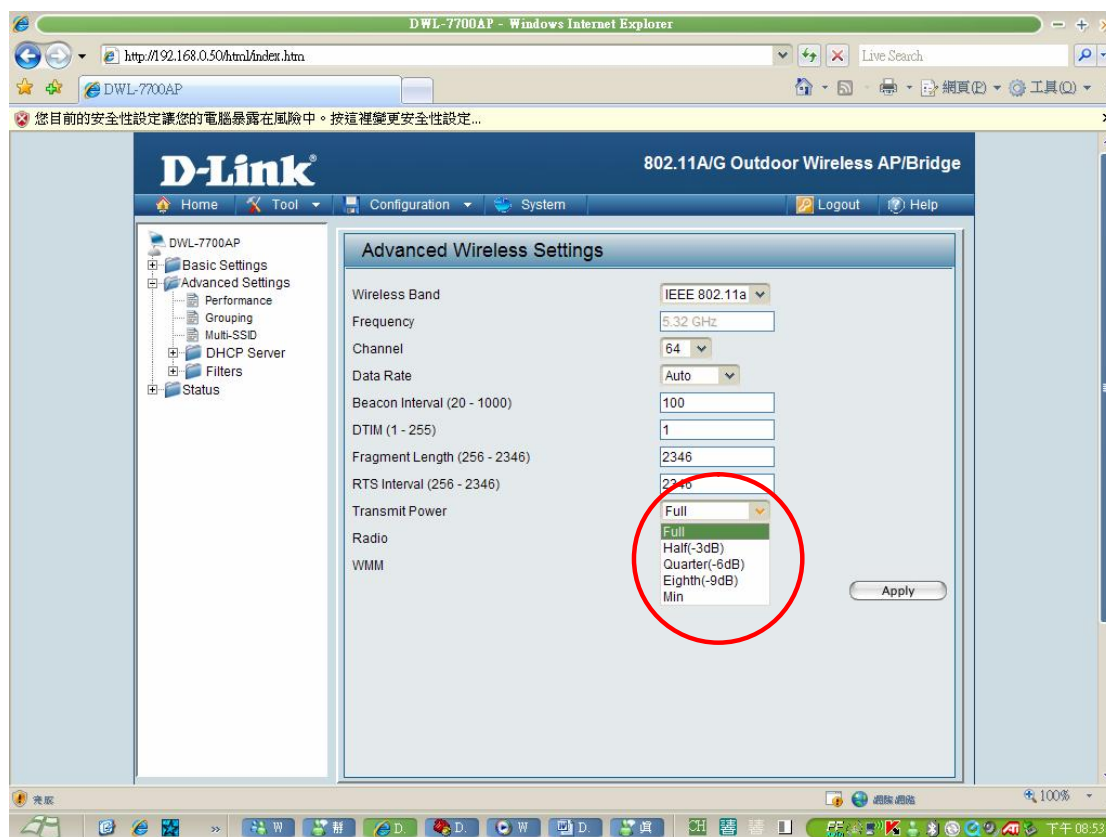
APPENDIX-C

TPC

Transmit Power Control (TPC)

In WLAN product of Microelectronics Technology Inc. (MTI), TPC is controlled by software and the user may adjust the Transmit Power level from web interface according to following procedure.

- I In the left menu page, click "Performance" of "Advanced Setting". The page of Advanced Wireless Settings will be displayed on the right side.
- I Click the pull down menu of "Transmit Power", there are 5 power levels for selection. Refer to the screenshot as below.
 - Full = Decided by the regulation of the channel
 - Half = Full - 3dB
 - Quarter = Full - 6dB
 - Eighth = Full - 9dB
 - Minimum = Full - 12dB



Our 5GHz interface is for WLAN bridge purpose that is installed fixedly, so we implement manual TPC instead of automatic TPC on the product.