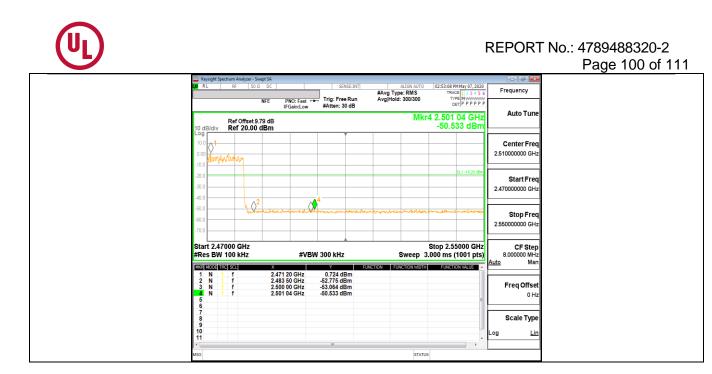


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	3	DH5_Ant1_	High 2480			
		2.10_/				
	Keysight Spectrum Analyzer - Swept SA     RL RF 50 Ω DC	SENSE:INT	ALIGN AUTO	02:16:35 PM May 07, 2020	- 6 💌	
	Center Freq 2.510000000 GHz		#Avg Type: RMS	TRACE 1 2 3 4 5 6 TYPE M WWWWW	Frequency	
	NFE PNO: Fast IFGain:Low	Trig: Free Run	Avg Hold: 300/300	DET P P P P P		
1	IFGain:Low	#Atten: 30 dB		DEILERERA		
	Ref Offset 9.79 dB		Mkr4	2.492 72 GHz	Auto Tune	
	10 dB/div Ref 20.00 dBm			-50.540 dBm		
	10 dB/div Ref 20.00 dBm	Y				
	10.0				Center Freq	
	0.00				2.51000000 GHz	
	A				2.01000000 0H2	
	-10.0					
	-20.0			DL1 -19.36 dBm	Start Freq	
	-30.0					
					2.470000000 GHz	
	-40.0	A3				
	-50.0		and the second second	muchowner		
	-60.0	and the showed by the second	erane and the second of the	a fahinifann shuarantar	Stop Freq	
					2.55000000 GHz	
	-70.0					
	Start 2.47000 GHz	A	~	top 2.55000 GHz	05.01	
		BW 300 kHz		top 2.55000 GHZ 00 ms (1001 pts)	CF Step 8.000000 MHz	
					8.000000 MHz Auto Man	
	MKR MODE TRC SCL X	Y FUNC	TION FUNCTION WIDTH	FUNCTION VALUE	Auto Mari	
	1 N 1 f 248016 GHz	0.642 dBm			<u> </u>	
	2 N 1 f 2.483 50 GHz 3 N 1 f 2.500 00 GHz	-53.584 dBm -52.992 dBm			Freq Offset	
1	4 N 1 f 2.492 72 GHz	-50.540 dBm			0 Hz	
	5			E	0112	
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	8				Scale Type	
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	301	H5 Ant1 Lo	w Hop 240	12		
		H5_Ant1_Lo	w_Hop_240	2	( ) ( - <b>1</b>	
	Keysight Spectrum Analyzer - Swept SA				- 3 🗙	
	Keysight Spectrum Analyzer - Swept SA           μα         R L         RF         50 Ω         DC	SENSE:INT	ALIGN ALITO	02:48:42 PM May 07, 2020	Frequency	
	Keysight Spectrum Analyzer - Swept SA RL RF S0.0. DC Center Freq 2.355000000 GHz NFF PNC: Fast	SENSE:INT		02:48:42 PM May 07, 2020		
	Keysight Spectrum Analyzer - Swept SA           R         RF         50 Ω         DC           Center Freq 2.355000000 GHz	SENSE:INT	ALIGN ALITO		Frequency	
	Keysight Spectrum Analyzer - Swept SA ■ RL RF S0 Ω DC Center Freq 2.355000000 GHZ NFE PNO: Fast IFGainLow	SENSE:INT	ALIGN AUTO #Avg Type: RMS Avg Hold: 300/300	02:48:42 PM May 07, 2020 TRACE 1 2 3 4 5 6 TYPE M		
	Keysight Spectrum Analyzer - Swept SA           Dir RL         65         30 2 DC           Center Freq 2.355000000 GHz         PRO: Fast IFGainLow           Ref Offset 9.64 dB	SENSE:INT	ALIGN AUTO #Avg Type: RMS Avg Hold: 300/300	02:48:42 PM May 07, 2020 TRACE 1 2 3 4 5 6 TYPE M WWWW DET P P P P P P 2.368 97 GHz	Frequency	
	Keysight Spectrum Analyzer - Swept SA ■ RL RF S0 Ω DC Center Freq 2.355000000 GHZ NFE PNO: Fast IFGainLow	SENSE:INT	ALIGN AUTO #Avg Type: RMS Avg Hold: 300/300	02:48:42 PM May 07, 2020 TRACE 1 2 3 4 5 6 TYPE M	Frequency	
	Keysight Spectrum Analyzer - Swept SA           IRL         RF         S0 Ω         DC           Center Freq 2.3550000000 GHz         NFE         PHO: Fast (iFGainLow           Ref Offset 9.64 dB         10 dB/div         Ref 2000 dBm	SENSE:INT	ALIGN AUTO #Avg Type: RMS Avg Hold: 300/300	02:48:42 PMMay 07, 2020 TRACE[123456 TYPE MWWWW DET P P P P P 2.368 97 GHz -51.118 dBm	Frequency Auto Tune	
	Keysight Spectrum Analyzer - Swept SA           OF         RL         RF         S0 02         DC           Center Freq 2:3550000000 GHz           NFE         PN0: Fast IFGainLow           Ref Offset 9:64 dB           10 dB/div         Ref 20.00 dBm           10 dB/div	SENSE:INT	ALIGN AUTO #Avg Type: RMS Avg Hold: 300/300	02:48:42 PMMay 07, 2020 TRACE[123456 TYPE MWWWW DET P P P P P 2.368 97 GHz -51.118 dBm	Frequency Auto Tune	
	Keysight Spectrum Analyzer - Swept SA           OF         RL         RF         S0.0         DC           Center Freq 2.355000000 GHz           NFE         PNO: Fast IF GainLow           10 dB/div         Ref Offset 9.64 dB         0           10 dB/div         Ref 20.00 dBm         0           0.00         0.00         0         0	SENSE:INT	ALIGN AUTO #Avg Type: RMS Avg Hold: 300/300	02:48:42 PMMay 07, 2020 TRACE[123456 TYPE MWWWW DET P P P P P 2.368 97 GHz -51.118 dBm	Frequency Auto Tune	
	Keysight Spectrum Analyzer - Swept SA           OF         RL         RF         S0 02         DC           Center Freq 2:3550000000 GHz           NFE         PN0: Fast IFGainLow           Ref Offset 9:64 dB           10 dB/div         Ref 20.00 dBm           10 dB/div	SENSE:INT	ALIGN AUTO #Avg Type: RMS Avg Hold: 300/300	02:48:42 PMMay 07, 2020 TRACE[123456 TYPE MWWWW DET P P P P P 2.368 97 GHz -51.118 dBm	Frequency Auto Tune	
	Keysight Spectrum Analyzer - Swept SA           OF         RL         RF         S0.0         DC           Center Freq 2.3550000000 GHz           NFE         PNO: Fast IF GainLow           10         dB/div         Ref Offset 9.64 dB         D0           100         dB/div         Ref 20.00 dBm         D0           000         000         000         D0         D0	SENSE:INT	ALIGN AUTO #Avg Type: RMS Avg Hold: 300/300	02:48:42 PM May 07, 2020 TRACE 1 2 3 4 5 6 TYPE M WWWW DET P P P P P P 2.368 97 GHz	Frequency Auto Tune Center Freq 2.355000000 GHz	
	Keysight Spectrum Analyzer - Swept SA           R L         RF         S0 Q         DC           Center Freq 2.3550000000 GHz         PHO: Fast IFGainLow           10 dB/div         Ref Offset 9.64 dB           10 dB/div         Ref 20.00 dBm           10 dB/div         Ref 20.00 dBm	SENSE:INT	ALIGN AUTO #Avg Type: RMS Avg Hold: 300/300	02:48:42 PM May 07, 2020 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P P P P P P 2.368 97 GHz -51.118 dBm	Frequency Auto Tune Center Freq 2.35500000 GHz Start Freq	
	Keysight Spectrum Analyzer - Swept SA           R L         ref         10.0         DC           Center Freq 2.35500000 GHz           PRO: Fast (FGainLow           Ref Offset 9.64 dB           10 dB/div         Ref 20.00 dBm         10           100	SENSE:INT	ALIGN AUTO #Avg Type: RMS Avg Hold: 300/300	02:48:42 PM May 07, 2020 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P P P P P P 2.368 97 GHz -51.118 dBm	Frequency Auto Tune Center Freq 2.355000000 GHz	
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	Keysight Spectrum Analyzer - Swept SA           Center Freq 2:35000000 GHz           NFE         PR0: Fast (FGainLow)           Ref Offset 9:64 dB           10 dB/div         Ref 20.00 dBm           00         4           00         4           00         4	SENSE:INT	ALION AUTO #Avg Type: RMS Avg Hold: 300/300 MKr5	02-48-32 PMINay 07, 2020 TRACE []: 3 - 5 6 TRACE []: 3 - 5 7 TRACE	Frequency           Auto Tune           Center Freq           2.36500000 GHz           Start Freq           2.30000000 GHz           Stop Freq           2.41000000 GHz	
	Keysight Spectrum Analyzer - Swept SA           RL         RF         IDIA         DC           Center Freq 2.35500000 GHz           PRO: Fast (FGainLow)           Ref Offset 9.64 dB           10 dB/div         Ref 20.00 dBm         DBm           20         200         200         200           200         4         200         200           200         4         200         200           200         4         200         200           300         4         300         300           300         4         300         300           300         4         300         300           300         4         300         300           300         4         300         300           300         4         300         300           300         4         300         300           300         4         300         300           300         4         300         300           300         5         300         300           300         300         4         300           300	SENSE.INT	ALIGNAUTO BAvg Type: RMS Avgitoid: 300/300 MKr5 SS	02-48-2) PHILON 07, 2020 TRACE [] 2 3 4 5 G TRACE [] 2 3 4 5 G TRACE [] 2 1 4 5 G	Frequency Auto Tune Center Freq 2.35500000 GHz Start Freq 2.30000000 GHz Stop Freq 2.41000000 GHz	
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	Report Spectrum Analyzer - Swept SA           RL         RF         ID 0         DC           Center Freq 2.35500000 GHz           PRO: Fast (FGainLow)           Ref Offset 9.64 dB           10 dB/div         Ref 20.00 dBm         DBm           20 dB/div         Ref 20.00 dBm         DBm           20 dB/div         Ref 20.00 dBm         DBm           30 dB/div         Ref 20.00 dBm         D	SENSE INT	ALION AUTO #Avg Type: RMS Avg Hold: 300/300 MKr5	02-88-2 PM Kay 07,2020 TRACE 11, 21 - 3 - 5 G TRACE 11, 21 - 3 - 5 G TRACE 11, 21 - 3 - 5 G TRACE 11, 21 - 5 G TRACE 11, 21 - 5 G 2,368 97 GHz -51.118 dBm -1, 1 -1, 1 -1, 1 -1, 1 -1, 1 -2, 23 - 5 G -2, 24 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -	Frequency           Auto Tune           Center Freq           2.36500000 GHz           Start Freq           2.3000000 GHz           Stop Freq           2.41000000 GHz           CF Step           11.00000 MHz	
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	Keysight Spectrum Analyzer - Saregt SA           RL         RF         100 a         DC           Center Freq 2.355000000 GHz         NFE         PNO: Fast IF GainLow           Ref Offset 9.64 dB         0         0           10 dB/div         Ref 20.00 dBm         0           20 db         4         4         1         1         2.400 00 GHz           11 f         2.400 00 GHz         1         1         2.310 00 GHz           11 f         2.300 00 GHz         1         2.310 00 GHz	SPISE.INT Trig: Free Run #Atten: 30 dB SW SW 300 kHz Y EW SJ 420 dBm -53.499 dBm -53.499 dBm -53.499 dBm -53.499 dBm	ALION AUTO #Avg Type: RMS Avg Hold: 300/300 MKr5	02-88-2 PM Kay 07,2020 TRACE 11, 21 - 3 - 5 G TRACE 11, 21 - 3 - 5 G TRACE 11, 21 - 3 - 5 G TRACE 11, 21 - 5 G TRACE 11, 21 - 5 G 2,368 97 GHz -51.118 dBm -1, 1 -1, 1 -1, 1 -1, 1 -1, 1 -2, 23 - 5 G -2, 24 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -	Start Freq           2.35500000 GHz           2.35500000 GHz           Start Freq           2.30000000 GHz           Stop Freq           2.41000000 GHz           CF Step           11.00000 MHz           Auto           Man           Freq Offset	
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	Regright Spectrum Analyzer - Sargt SA           RL         ref         10.0         DC           Center Freq 2.355000000 CHZ           NFE         PhO: Fast IFGainLow           Ref Offset 9.64 dB           10         dB/div         Ref 20.00 dBm           100         0         0         0           000         0         0         0           000         0         0         0           000         0         0         0           000         0         0         0           000         0         0         0           000         0         0         0         0           000         0         0         0         0           000         0         0         0         0           000         0         0         0         0           000         0         0         0         0           000         0         0         0         0           000         0         0         0         0           000         0         0         0         0	SPISE.INT Trig: Free Run #Atten: 30 dB SW SW 300 kHz Y EW SJ 420 dBm -53.499 dBm -53.499 dBm -53.499 dBm -53.499 dBm	ALION AUTO #Avg Type: RMS Avg Hold: 300/300 MKr5	02-88-2 PM Kay 07,2020 TRACE 11, 21 - 3 - 5 G TRACE 11, 21 - 3 - 5 G TRACE 11, 21 - 3 - 5 G TRACE 11, 21 - 5 G TRACE 11, 21 - 5 G 2,368 97 GHz -51.118 dBm -1, 1 -1, 1 -1, 1 -1, 1 -1, 1 -2, 23 - 5 G -2, 24 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -	Start Freq           2.35500000 GHz           2.35500000 GHz           Start Freq           2.30000000 GHz           Stop Freq           2.41000000 GHz           CF Step           11.00000 MHz           Auto           Man           Freq Offset	
	Regright Spectrum Analyzer - Sargt SA           RL         ref         10.0         DC           Center Freq 2.355000000 CHZ           NFE         PhO: Fast IFGainLow           Ref Offset 9.64 dB           10         dB/div         Ref 20.00 dBm           100         0         0         0           000         0         0         0           000         0         0         0           000         0         0         0           000         0         0         0           000         0         0         0           000         0         0         0         0           000         0         0         0         0           000         0         0         0         0           000         0         0         0         0           000         0         0         0         0           000         0         0         0         0           000         0         0         0         0           000         0         0         0         0	SPISE.INT Trig: Free Run #Atten: 30 dB SW SW 300 kHz Y EW SJ 420 dBm -53.499 dBm -53.499 dBm -53.499 dBm -53.499 dBm	ALION AUTO #Avg Type: RMS Avg Hold: 300/300 MKr5	02-88-2 PM Kay 07,2020 TRACE 11, 21 - 3 - 5 G TRACE 11, 21 - 3 - 5 G TRACE 11, 21 - 3 - 5 G TRACE 11, 21 - 5 G TRACE 11, 21 - 5 G 2,368 97 GHz -51.118 dBm -1, 1 -1, 1 -1, 1 -1, 1 -1, 1 -2, 23 - 5 G -2, 24 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -	Step         Frequency           Auto Tune         Center Freq           2.35500000 GHz         Start Freq           2.3000000 GHz         Stop Freq           2.41000000 GHz         CF Step           11.00000 MHz         Man           Freq Offset         0 Hz	
	Keysight Spectrum Analyzer - Surgt SA           R.L         Ref         ID all DC           Center Freq 2.35500000 GHz           Ref Offset 9.64 dB           10 dBIdiv         Ref 20.00 dBm           Log         ID         ID           10 dBIdiv         Ref 20.00 dBm         ID           20 0         ID         ID         ID           10 0         ID         ID         ID           20 0         ID         ID         ID           20 0         ID         ID         ID           20 0         ID         ID         ID         ID           20 0         ID         ID         ID         ID         ID           20 0         ID         ID <th>SPISE.INT Trig: Free Run #Atten: 30 dB SW SW 300 kHz Y EW SJ 420 dBm -53.499 dBm -53.499 dBm -53.499 dBm -53.499 dBm</th> <th>ALION AUTO #Avg Type: RMS Avg Hold: 300/300 MKr5</th> <th>02-88-2 PM Kay 07,2020 TRACE 11, 21 - 3 - 5 G TRACE 11, 21 - 3 - 5 G TRACE 11, 21 - 3 - 5 G TRACE 11, 21 - 5 G TRACE 11, 21 - 5 G 2,368 97 GHz -51.118 dBm -1, 1 -1, 1 -1, 1 -1, 1 -1, 1 -2, 23 - 5 G -2, 24 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -</th> <th>Frequency           Auto Tune           Center Freq           2.35500000 GHz           Start Freq           2.30000000 GHz           Stop Freq           2.41000000 GHz           CF Step           11.00000 MHz           Auto           Freq Offset           0 Hz           Scale Type</th> <th></th>	SPISE.INT Trig: Free Run #Atten: 30 dB SW SW 300 kHz Y EW SJ 420 dBm -53.499 dBm -53.499 dBm -53.499 dBm -53.499 dBm	ALION AUTO #Avg Type: RMS Avg Hold: 300/300 MKr5	02-88-2 PM Kay 07,2020 TRACE 11, 21 - 3 - 5 G TRACE 11, 21 - 3 - 5 G TRACE 11, 21 - 3 - 5 G TRACE 11, 21 - 5 G TRACE 11, 21 - 5 G 2,368 97 GHz -51.118 dBm -1, 1 -1, 1 -1, 1 -1, 1 -1, 1 -2, 23 - 5 G -2, 24 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -	Frequency           Auto Tune           Center Freq           2.35500000 GHz           Start Freq           2.30000000 GHz           Stop Freq           2.41000000 GHz           CF Step           11.00000 MHz           Auto           Freq Offset           0 Hz           Scale Type	
	Keysight Spectrum Analyzer - Sungt SA           R.L         Ref         SD2         DEC           NFE         PRO: Fast If GainLow           Ref Offset 9,64 dB           10 dB/div         Ref 20.00 dBm         Dec           10 dB/div         Ref 20.00 dBm         Dec         Dec         Dec           10 dB/div         Ref 20.00 dBm         Dec         Dec <thdec< th="">         Dec         Dec</thdec<>	SPISE.INT Trig: Free Run #Atten: 30 dB SW SW 300 kHz Y EW SJ 420 dBm -53.499 dBm -53.499 dBm -53.499 dBm -53.499 dBm	ALIGNATIO	02-88-2 PM Kay 07,2020 TRACE 11, 21 - 3 - 5 G TRACE 11, 21 - 3 - 5 G TRACE 11, 21 - 3 - 5 G TRACE 11, 21 - 5 G TRACE 11, 21 - 5 G 2,368 97 GHz -51.118 dBm -1, 1 -1, 1 -1, 1 -1, 1 -1, 1 -2, 23 - 5 G -2, 24 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -	Frequency           Auto Tune           Center Freq           2.35500000 GHz           Start Freq           2.30000000 GHz           Stop Freq           2.41000000 GHz           CF Step           11.00000 MHz           Auto           Freq Offset           0 Hz           Scale Type	
	Regright Spectrum Analyzer - Sargt SA           RL         ref         10.0 a         DC           Center Freq 2.355000000 CHZ           NFE         PhO: Fast IFGainLow           Ref Offset 9.64 dB           10 dB/div         Ref 20.00 dBm         Log           10 dB/div         Ref 20.00 dBm         Log	SPISE.INT Trig: Free Run #Atten: 30 dB SW SW 300 kHz Y EW SJ 420 dBm -53.499 dBm -53.499 dBm -53.499 dBm -53.499 dBm	ALION AUTO #Avg Type: RMS Avg Hold: 300/300 MKr5	02-88-2 PM Kay 07,2020 TRACE 11, 21 - 3 - 5 G TRACE 11, 21 - 3 - 5 G TRACE 11, 21 - 3 - 5 G TRACE 11, 21 - 5 G TRACE 11, 21 - 5 G 2,368 97 GHz -51.118 dBm -1, 1 -1, 1 -1, 1 -1, 1 -1, 1 -2, 23 - 5 G -2, 24 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -	Frequency           Auto Tune           Center Freq           2.35500000 GHz           Start Freq           2.30000000 GHz           Stop Freq           2.41000000 GHz           CF Step           11.00000 MHz           Auto           Freq Offset           0 Hz           Scale Type	
	Keysight Spectrum Analyzer - Surgit SA           R.L         Ref         I I I I I I I I I I I I I I I I I I I	SENSE.INT  Trig: Free Run #Atten: 30 dB Sense International Sense Sense International Sense Sens	ALIGNAUTO	02-88-2 PHILIP 07 2020 THISSE 11 21 3 3 5 THISSE 11 3 3 5 THISS	Frequency           Auto Tune           Center Freq           2.35500000 GHz           Start Freq           2.30000000 GHz           Stop Freq           2.41000000 GHz           CF Step           11.00000 MHz           Auto           Freq Offset           0 Hz           Scale Type	
	Keysight Spectrum Analyzer - Surgit SA           R.L         Ref         I I I I I I I I I I I I I I I I I I I	SPISE.INT Trig: Free Run #Atten: 30 dB SW SW 300 kHz Y EW SJ 420 dBm -53.499 dBm -53.499 dBm -53.499 dBm -53.499 dBm	ALIGNAUTO	02-88-2 PHILIP 07 2020 THISSE 11 21 3 3 5 THISSE 11 3 3 5 THISS	Frequency           Auto Tune           Center Freq           2.35500000 GHz           Start Freq           2.30000000 GHz           Stop Freq           2.41000000 GHz           CF Step           11.00000 MHz           Auto           Freq Offset           0 Hz           Scale Type	

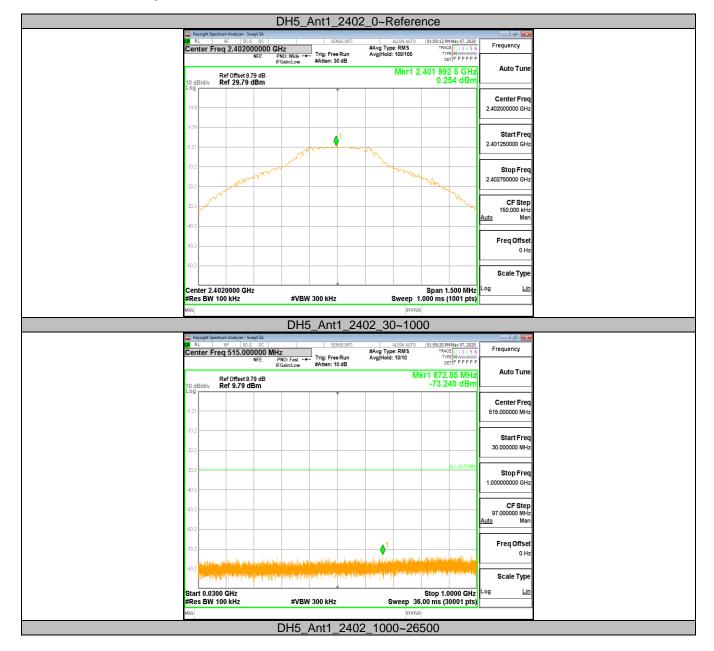




### Appendix H: Conducted Spurious Emission Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
		2402	Reference	0.25	0.25		PASS
			30~1000	30~1000	-73.24	<=-29.746	PASS
			1000~26500	1000~26500	-57.349	<=-29.746	PASS
		2441	Reference	1.76	1.76		PASS
DH5	Ant1		30~1000	30~1000	-72.967	<=-28.24	PASS
			1000~26500	1000~26500	-55.753	<=-28.24	PASS
		2480	Reference	2.20	2.20		PASS
			30~1000	30~1000	-73.117	<=-27.8	PASS
			1000~26500	1000~26500	-61.185	<=-27.8	PASS
		2402	Reference	-2.10	-2.10		PASS
			30~1000	30~1000	-73.277	<=-32.096	PASS
			1000~26500	1000~26500	-60.486	<=-32.096	PASS
		2441	Reference	0.05	0.05		PASS
3DH5	Ant1		30~1000	30~1000	-72.597	<=-29.947	PASS
			1000~26500	1000~26500	-63.192	<=-29.947	PASS
		2480	Reference	0.12	0.12		PASS
			30~1000	30~1000	-72.386	<=-29.878	PASS
			1000~26500	1000~26500	-62.774	<=-29.878	PASS

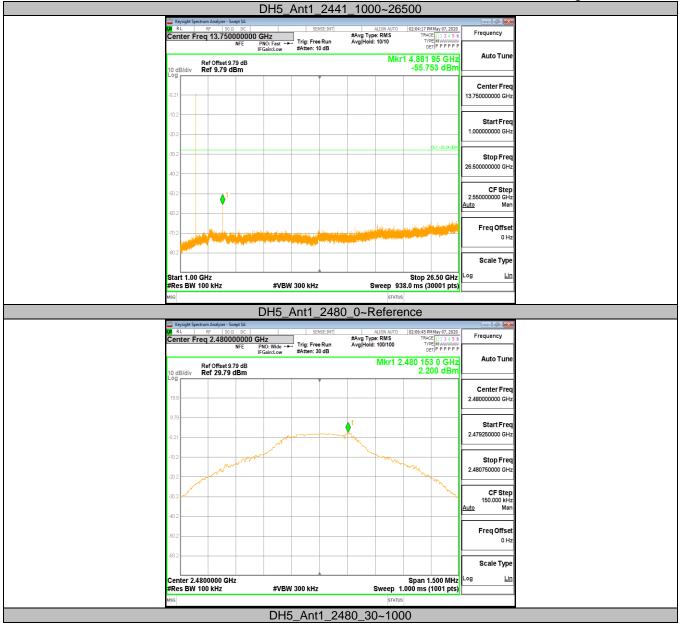
### Test Graphs



#### REPORT No.: 4789488320-2 Page 103 of 111 RL RF S0 @ DC Image: Constant state sta 01:59:47 PM May 07. 202 #Avg Type: RMS Avg|Hold: 10/10 Frequency TYPE M Auto Tun Mkr1 4.804 60 GHz -57.349 dBm Ref Offset 9.79 dB Ref 9.79 dBm Center Fre 13,750000000 GH Start Free 1.00000000 GH Stop Fre 26.50000000 GH CF Step 2.550000000 GHz Auto Man ٠ Freq Offse 0 H: Scale Typ Stop 26.50 GHz Sweep 938.0 ms (30001 pts) Start 1.00 GHz #Res BW 100 kHz Lir .oa #VBW 300 kHz DH5 Ant1 2441 0~Reference RL RF 50 Ω DC Center Freq 2.441000000 GHz Trig: Free Run NFE PNO: Wide →→ IFGain.tow #Atten: 30 dB 2:03:43 PM May 07, 202 Frequency #Avg Type: RMS Avg Hold: 100/100 TYPE M Mkr1 2.441 148 5 GHz 1.760 dBm Auto Tun Ref Offset 9.79 dB Ref 29.79 dBm Center Free 2.441000000 GH Start Free 2.440250000 GH Stop Free 2.441750000 GH CF Step 150.000 kHz Mai Auto Freq Offset 0 H: Scale Type Center 2.4410000 GHz #Res BW 100 kHz Span 1.500 MHz .oa Lir #VBW 300 kHz Sweep 1.000 ms (1001 pts) STATU DH5\_Ant1\_2441\_30~1000 RL RF 50Ω DC enter Freq 515.000000 MHz NFE PRO: Fast → Trig: Free Run #Chaind ow #Atten: 10 dB 3:51 PM May 07, 2020 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P P P P P P Frequency #Avg Type: RMS Avg|Hold: 10/10 Auto Tun Mkr1 905.65 MHz -72.967 dBm Ref Offset 9.79 dB Ref 9.79 dBm dBidis Center Fre 515.000000 MH Start Free 30.000000 MH Stop Free 1.00000000 GH CF Step 97.000000 MI Ma Auto Freq Offse 0 H: Scale Type Li Start 0.0300 GHz Stop 1.0000 GHz Sweep 36.00 ms (30001 pts) Res BW 100 kHz #VBW 300 kHz

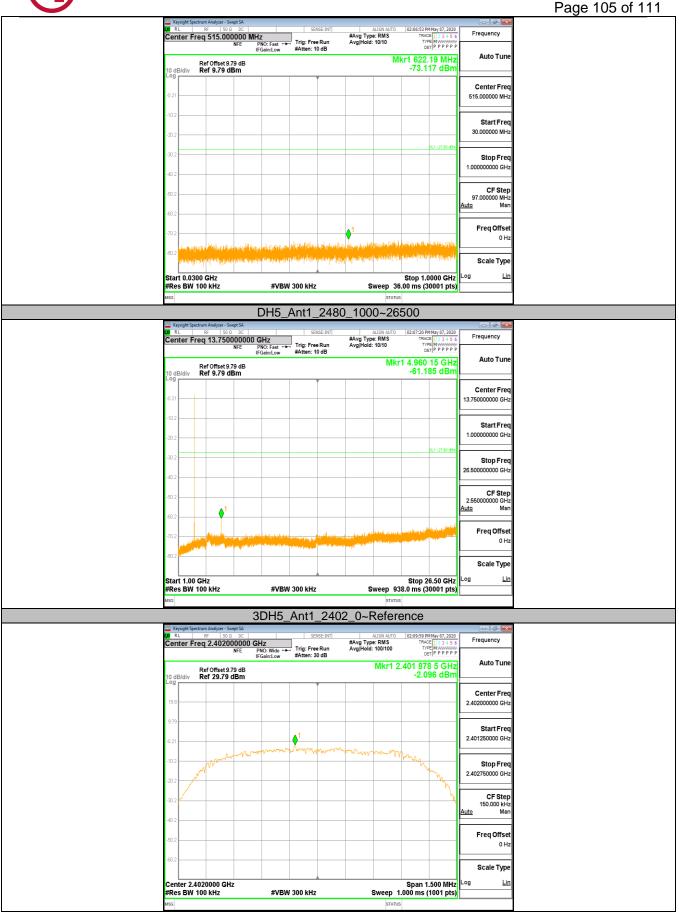


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# REPORT No.: 4789488320-2

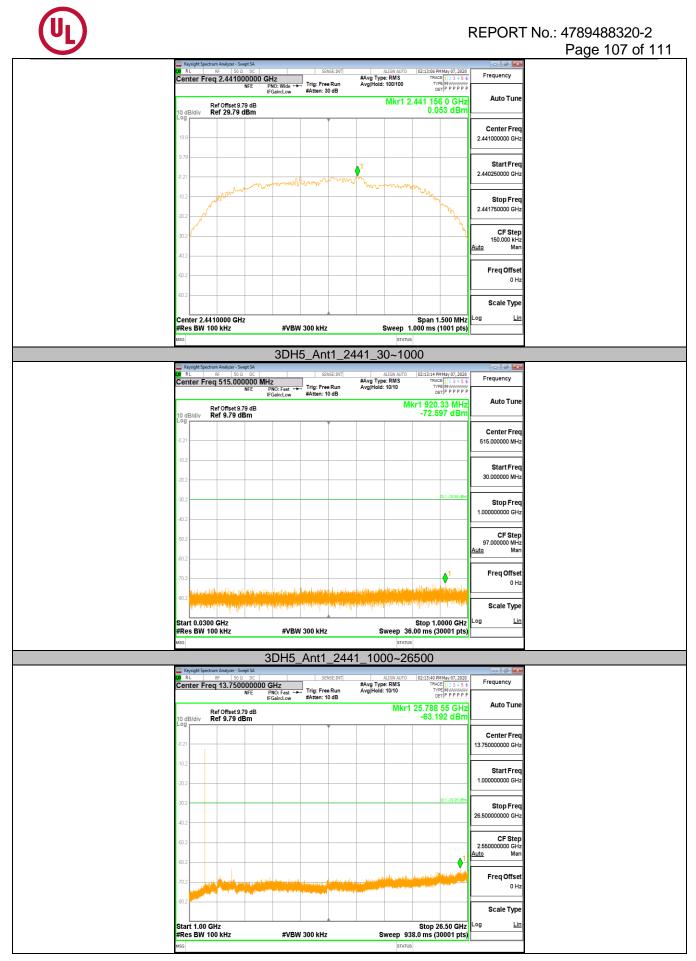






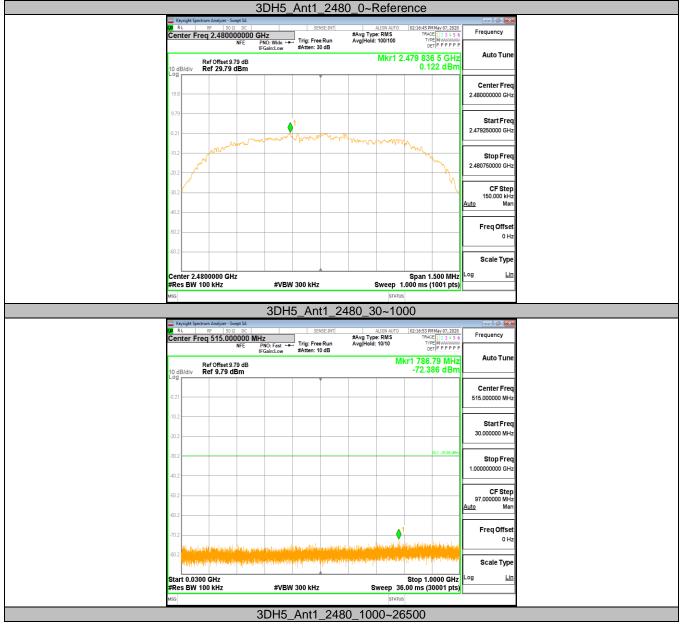
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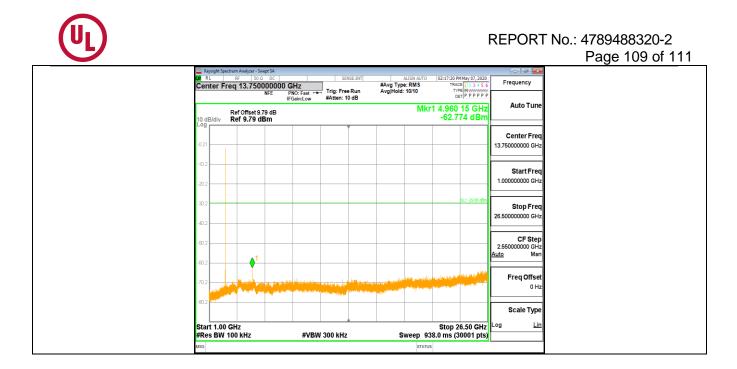
						00 00		20			
_			3DH5	s_Ant	1_240	02_30-	~100	00			
LXI RL	ctrum Analyzer - Sw RF 50 Ω req 515.000	2 DC	7	SENS		#Avg Type: R	MS	02:10:07 PM M	May 07, 2020	Frequency	
Senter Pr	oq 515.00l	NFE P	NO Fast +++	Trig: Free F #Atten: 10 (	Run	Avg Hold: 10/	10	TYPE	1 2 3 4 5 6 M P P P P P P P		
10 dB/div	Ref Offset 9.7 Ref 9.79 di	79 dB					Mk	r1 736.5 -73.27	i2 MHz 7 dBm	Auto Tune	
Log				ľ						Center Freq	
-0.21										515.000000 MHz	
-10.2										Start Freq	
-20.2										30.000000 MHz	
-30.2								0.	L1 -32:10 dBm	Stop Freq 1.00000000 GHz	
-40.2											
-50.2										CF Step 97.000000 MHz Auto Man	
-60.2											
-70.2				.1			1		lin na chuire	Freq Offset 0 Hz	
-80.2	bye bili pansie Laste and state	dahihinka akihidadaan	alphanipini a li mulanaki a ki a a k	te for helder for the State of the state of the	n privinski statu 1911. og bla klas	ndasindan sal	en e	and a first	e contraction And design from	Scale Type	
Start 0.030		alalapanaana	يديه لعا مادي	er da li	- d la sub			Stop 1.00			
#Res BW 1	100 kHz		#VBW	300 kHz		Swe	ер 36.	00 ms (30	001 pts)		
MSG							STATUS				
		3	DH5	Ant1	2402	1000	_	500			
MSG	ctrum Analyzer - Sw		DH5_	Ant1_	2402	_1000	~26			- 6 <b>-</b>	
MSG Keysight Spec	ctrum Analyzer - Sw RF 50 Ω 2eg 13.7500	vept SA 2 DC 000000 C	GHz	SENSI	E:INT	ALIG	)~26 IN AUTO	02:10:35 PM M	Hay 07, 2020	Frequency	
MSG Keysight Spec	eq 13.7500	vept SA 2 DC 000000 C	GHz		E:INT  Run	ALIG	)~26 IN AUTO	02:10:35 PM M	May 07, 2020 1 2 3 4 5 6 M P P P P P P		
MSG Keysight Spec RL Center Fr 10 dB/div	eq 13.7500	vept SA 2 DC 0000000 G NFE P IF 79 dB	GHz	SENSI	E:INT  Run	ALIG	N-26 IN AUTO IN S IN S IN S	02:10:35 PM M	123456 M PPPPPPP 5 GHz		
Keysight Spec (2) RL Center Fr	eq 13.7500	vept SA 2 DC 0000000 G NFE P IF 79 dB	GHz	SENSI	E:INT  Run	ALIG	N-26 IN AUTO IN S IN S IN S	02:10:35 PM M TRACE TYPE DET 2.399 9	123456 M PPPPPPP 5 GHz	Frequency Auto Tune	
MSG Keysight Spec RL Center Fr 10 dB/div	eq 13.7500	vept SA 2 DC 0000000 G NFE P IF 79 dB	GHz	SENSI	E:INT  Run	ALIG	N-26 IN AUTO IN S IN S IN S	02:10:35 PM M TRACE TYPE DET 2.399 9	123456 M PPPPPPP 5 GHz	Frequency	
MSG Keysight Spec RL Center Fr 10 dB/div Log	eq 13.7500	vept SA 2 DC 0000000 G NFE P IF 79 dB	GHz	SENSI	E:INT  Run	ALIG	N-26 IN AUTO IN S IN S IN S	02:10:35 PM M TRACE TYPE DET 2.399 9	123456 M PPPPPPP 5 GHz	Frequency Auto Tune Center Freq	
MSG ME Center Fr 10 dB/div -0.21 -10.2	eq 13.7500	vept SA 2 DC 0000000 G NFE P IF 79 dB	GHz	SENSI	E:INT  Run	ALIG	N AUTO	02:10:35 PM M TRACE TYPE DET 2.399 9	123456 M PPPPPP 5 GHz	Frequency Auto Tune Center Freq 13.75000000 GHz Start Freq	
MSG Keysight Spec RL Center Fr 10 dB/div Log -0.21	eq 13.7500	vept SA 2 DC 0000000 G NFE P IF 79 dB	GHz	SENSI	E:INT  Run	ALIG	N AUTO	02:10:35 PM M TRACE TYPE DET 2.399 9	123456 M PPPPPP 5 GHz	Frequency Auto Tune Center Freq 13.76000000 GHz	
MSG ME Center Fr 10 dB/div -0.21 -10.2	eq 13.7500	vept SA 2 DC 0000000 G NFE P IF 79 dB	GHz	SENSI	E:INT  Run	ALIG	N AUTO	02:10:35 PM M TRACE TYPE DET 2.399 9	123456 M PPPPPP 5 GHz	Frequency Auto Tune Center Freq 13.75000000 GHz Start Freq 1.00000000 GHz Stop Freq	
Keysight Spec           ID         RL           Center Fr           10         dB/div           Log	eq 13.7500	vept SA 2 DC 0000000 G NFE P IF 79 dB	GHz	SENSI	E:INT  Run	ALIG	N AUTO	02:10:35 PM M TRACE TYPE DET 2.399 9	123456 M PPPPPP 5 GHz	Frequency Auto Tune Center Freq 13.75000000 GHz Start Freq 1.00000000 GHz	
Keysight Spec           00         R.L           Center Fr           10         dB/div           0.21	eq 13.7500	vept SA 2 DC 0000000 G NFE P IF 79 dB	GHz	SENSI	E:INT  Run	ALIG	N AUTO	02:10:35 PM M TRACE TYPE DET 2.399 9	123456 M PPPPPP 5 GHz	Frequency           Auto Tune           Center Freq           13.75000000 GHz           Start Freq           1.00000000 GHz           Stop Freq           26.5000000 GHz           CF Step           2.55000000 GHz	
Keysight Spec           0         R.L           Center Fr           10         dB/div           -0         21           -10         2           -30         2           -40         2	eq 13.7500	vept SA 2 DC 0000000 G NFE P IF 79 dB	GHz	SENSI	E:INT  Run	ALIG	N AUTO	02:10:35 PM M TRACE TYPE DET 2.399 9	123456 M PPPPPP 5 GHz	Frequency Auto Tune Center Freq 13.75000000 GHz Start Freq 1.00000000 GHz Stop Freq 26.50000000 GHz	
Keyight Spric           R.L           Center Fr           0.21           -10.2           -30.2           -40.2           -50.2	eq 13.7500	vept SA 2 DC 0000000 G NFE P IF 79 dB	SHZ NO: Fast ->- Gain:Low	SENSI	E:INT  Run	ALIG	N AUTO	02:10:35 PM M TRACE TYPE DET 2.399 9	123456 M PPPPPP 5 GHz	Start Freq           13.76000000 GHz           Start Freq           1.000000000 GHz           Stop Freq           26.50000000 GHz           CF Step           2.50000000 GHz           Man           Freq Offset	
Liss           Image: Second S	eq 13.7500	>>         >><	SHZ NO: Fast ->- Gain:Low	SENSIS	E:INT  Run	ALIG	N AUTO	02:10:35 PM M TRACE TYPE DET 2.399 9	123456 M PPPPPP 5 GHz	Start Freq           26.5000000 GHz           3.75000000 GHz           25.5000000 GHz           2.55000000 GHz           Auto	
Keysight Spec Dr. R.           Control Figure 10 dB/div           -0.21           -10.2           -30.2           -30.2           -60.2           -70.2           -70.2           -70.2	Ref Offset9.3 Ref 9.79 dl	>>         >><	SHZ NO: Fast ->- Gain:Low	SENSIS	E:INT  Run	ALIG	N AUTO	2:10:35 PM M TRACE WE 0:2:399 9 -60.481	212356 PPPPP 256 6 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Frequency           Auto Tune           Center Freq           13.75000000 GHz           Start Freq           1.00000000 GHz           Stop Freq           26.50000000 GHz           Auto Tune           CF Step           2.550000000 GHz           Man           Freq Offset           0 Hz           Scale Type	
Keysight Sprice           R. L         Center Fr           10         dE/dlv           -0.21	Ref Offset 9.79 dl	>>         >><	SHZ NO: Fast →→ Gain:Low	SENSIS	E:INT  Run	ALIO #Avg Type: Ri Avg Hold: 10/	Mkr1	02:10:35 PM M TRACE TYPE DET 2.399 9	12345 6 PPPPP P 55 GHz 6 dBm	Frequency           Auto Tune           Center Freq           13.75000000 GHz           Start Freq           1.00000000 GHz           Stop Freq           26.50000000 GHz           Auto Tune           CF Step           2.550000000 GHz           Man           Freq Offset           0 Hz           Scale Type	
Keysight Spece           Center Fr           10 dB/div           -0.2	Ref Offset 9.79 dl	>>         >><	SHZ NO: Fast →→ Gain:Low	SENSI	E:INT  Run	ALIO #Avg Type: Ri Avg Hold: 10/	Mkr1	2:10:35 PMIM TRACE TIME 2:399 9 -60.481	12345 6 PPPPP P 55 GHz 6 dBm	Frequency           Auto Tune           Center Freq           13.75000000 GHz           Start Freq           1.00000000 GHz           Stop Freq           26.50000000 GHz           Auto Tune           CF Step           2.550000000 GHz           Man           Freq Offset           0 Hz           Scale Type	





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Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
GFSK	2.884	3.749	0.769	76.9%	1.14	0.35	0.5
8DPSK	2.888	3.751	0.770	77.0%	1.30	0.35	0.5

Note:

Duty Cycle Correction Factor=10log (1/x).

Where: x is Duty Cycle (Linear)

Where: T is On Time

If that calculated VBW is not available on the analyzer then the next higher value should be used.





## **End of Report**