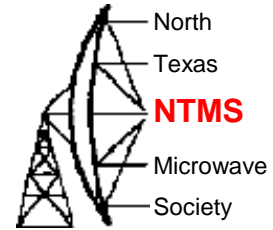


Welcome to The North Texas Microwave Society December 3, 2016

NTMS Yahoo Group



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North Texas Microwave Society
Restricted Group, 15 members

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8 messages added in the last 7 days

Group Description
Email reflector for the North Texas Microwave Society (NTMS). Dedicated to promoting activity, the state of the art in equipment design, and the exchange of ideas and technology for the amateur bands above 902MHz.

Group Website

ACTEMRA
tocilizumab For moderate to severe RA

WOULD HAVE. DID.
Ami asked her doctor about Actemra

[CLICK HERE to learn more](#)

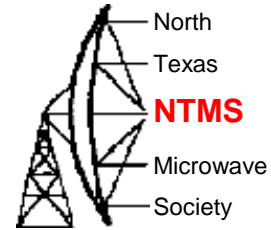
Scroll for Important Safety Information
anti-inflammatory drugs (NSAIDs), corticosteroids, or methotrexate.
Tell your doctor right away if you see any of these side effects: fever, stomach-area pain that does not go away, or if you see a change in your bowel habits.
Changes in blood test results

December 3rd Agenda



- Noon - Bull and swap
- 1 PM Technical Program
 - Kent Britain WA5VJB on slot antennas
 - Summary of Antenna Gain results from November meeting
 - WA5YWC - Results of the NTMS Cumulative Contest
 - W5LUA - Monitoring the N5PYK 432 beacon on tropo and aircraft scatter
 - W5LUA - Update on the W5HN 902 & 1296 MHz Beacons
 - Member Show & Tell?
- Business Meeting
 - Elections
 - 2017

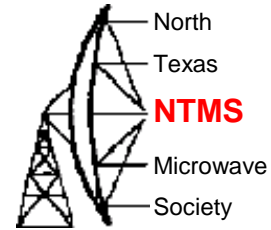
Antenna Gain Results at N5BRG Meeting Nov 2016



Antenna Gain Measuring by WA5VJB at Nov 2016 Meeting at N5BRG's QTH				
10 GHz	Entry	Antenna	Measured Gain	Predicted gain based on 50%
	W5LUA	Horn 4.5 in by 3.25 in	20.0 dBi	
	W5LUA	8 in offset fed dish	24.4 dBi	~24 dBi
	K5ZSJ	12.5 in dish	28 dBi	~27.5 dBi
	W5LUA	24 in dish	34.4 dBi	~33.5 dBi
24 GHz	W5LUA	Horn 2.3 in by 1.7 in	15.7 dBi	
	W4HHK	12.5 in dish w/penny feed	31.5 dBi	~34.5 dBi
	KC4YOE	15.5 in dish	38.2 dBi	~36 dBi
	KC4YOE	24 inch dish	38.7 dBi	~40.5 dBi
	W5LUA	24 inch dish	40.2 dBi	~40.5 dBi

Did I miss any entries?

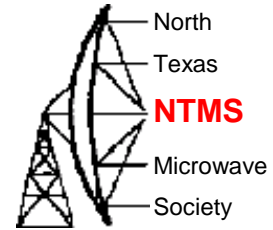
NTMS 10 GHz Cumulative Contest



1. The purpose of the contest is to promote terrestrial 10 GHz activity with an emphasis on promoting rover operations. The NTMS welcomes the RMG and neighboring areas to participate. Contest will run for 12 consecutive months starting on November 8, 2015 and ending November 6, 2016.
2. Must exchange 6-digit grid squares.
3. 100 points for each unique call sign accumulated during contest period.
4. Rover to rover points will equal distance in km times 2 multiplier.
5. Rover to fixed station points will equal distance in km times 1 multiplier.
6. Fixed to fixed stations will equal distance in km times 1 multiplier.
7. Rovers cannot use same six digit grid for points with previously worked station within a 24 hour period.
8. Rovers must move at least 10 miles (16km) before contact can be re-established with a previously worked station.
9. Rovers can work previously worked stations throughout contest period.
10. Stations are encouraged to operate during all the ARRL sponsored contests and accumulate points with 1 exception. The ARRL 10 GHz and above contest will be a separate event and points will only be eligible for the ARRL 10 GHz and Up Contest.
11. Fixed 10 GHz stations are encouraged to participate and work rovers and will be listed in a separate category.
12. First, second and third place winners will be recognized at the December 2016 NTMS meeting.

Omit →

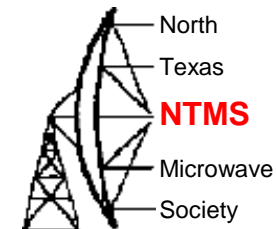
AA5AM, W5RLG, AA5C



AA5AM								
Date	Time	Call	Sent	Time	Rcv	km	Pts	Total
	8/20/2016	2005 W5LUA	EM13sg		EM13qc		24	100
	8/20/2016	2010 AA5C	EM13sg		EM13se		9	100
	9/17/2016	1638 N5WCO	EM13sg		EM12mo		86	100
	9/18/2016	105 WA5VJB	EM13sg		EM12lq		85	100
							204	400
								604
W5RLG								
Date	Time	Call	Sent	Time	Rcv	km	Pts	Total
	9/17/2016	11:38 N5BRG	EM03xe		EM13il		77	100
	9/17/2016	12:25 N5WCO	EM03xe		EM12mo		120	100
	9/17/2016	12:50 AA5C	EM03xe		EM13se		148	100
							345	300
								645
AA5C								
Date	Time	Call	Sent	Time	Rcv	km	Pts	Total
	8-Aug-16	W5LUA	EM13se		EM13qc		18	100
	20-Aug-16	W5LUA	EM13se		EM13qc		18	
	20-Aug-16	WA5TKU	EM13se		EM13jg		71	100
	20-Aug-16	WA5TKU	EM13se		EM13jj		74	
	20-Aug-16	AA5AM	EM13se		EM13sg		9	100
	20-Aug-16	WA5TKU	EM13se		EM13hi		87	
	20-Aug-16	N5BRG	EM13se		EM13nj		45	100
	20-Aug-16	K5ZSJ	EM13se		EM13ne		39	100
	21-Aug-16	WA5VJB	EM13se		EM12lq		78	100
	17-Sep-16	N5BRG	EM13se		EM13il		84	
	17-Sep-16	K5ZSJ	EM13se		EM13ei		110	
	17-Sep-16	W5RLG	EM13se		EM13ei		110	100
							743	700
								1443

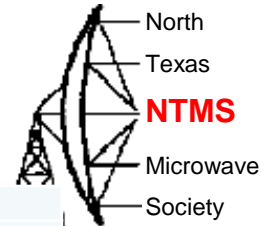
WA5YWC

Texas and Colorado



Date	Time	Worked	Sent	Received	Band GHz	DX (km)	Rover/Rover	Rover/Fixed	QSO Points
11/8/2015	7:30	AMW5LUA	EM13nf	EM13qc	10	27		27	100
	7:36	AMK5ZSJ/r	EM13nf	EM13ne	10	5	5		100
	7:37	AMN5WCO	EM13oi	EM12mo	10	85		85	100
	8:11	AMK5ZSJ/r	EM13oi	EM13ne	10	20	20		
	8:28	AMW5LUA	EM13oi	EM13qc	10	32		32	
8/20/2016	8:17	AMW6OAL	DN70xe	DM79ql	10	93		93	100
	8:46	AMWB5PJB	DN70xe	DM79ml	10	111		111	100
	8:55	AMN0YE/r	DN70xe	DM79ix	10	109	109		100
	9:51	AMW6OAL	DN70ub	DM79ql	10	71		71	
	9:52	AMN0YE/r	DN70ub	DM79ix	10	86	86		
	9:56	AMWB5PJB	DN70ub	DM79ml	10	86		86	
	10:25	AMW6OAL	DN70rb	DM79ql	10	65		65	
	10:26	AMWB5PJB	DN70rb	DM79ml	10	74		74	
	10:27	AMN0YE/r	DN70rb	DM79kv	10	53	53		
10:29	AMK0RZ	DN70rb	DM79jx	10	58		58	100	
11/5/2016	9:05	AMW5LUA	EM13nf	EM13of	10	8	8		
	9:33	AMW5LUA	EM13oi	EM13nh	10	9	9		

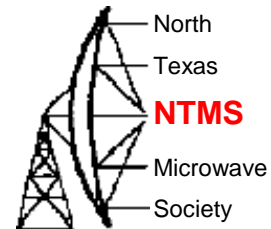
WA5YWC, Gulf Coast



9/17/2016	7:07 AM K5LLL	EL29oh	EM10kf	10	247		247	100
	7:15 AM W5LUA/r	EL29oh	EL49xf	10	462	462		
	7:31 AM WA8RJF/r	EL29oh	EL29ql	10	25	25		100
	9:17 AM W5LUA/r	EL29tn	EL49xf	10	422	422		
	10:31 AM W5LUA/r	EL29ts	EL49xf	10	424	424		
	11:35 AM W5LUA/r	EL29xu	EL49xf	10	394	394		
	12:25 PM WA8RJF/r	EL39bs	EL29xu	10	19	19		
	12:40 PM W5LUA/r	EL39bs	EL49xf	10	377	377		
	1:09 PM W5LUA/r	EL39fs	EL49xf	10	345	345		
	1:16 PM WA8RJF/r	EL39fs	EL39bs	10	32	32		
	2:40 PM W5LUA/r	EL39ls	EL49xf	10	297	297		
	2:51 PM WA8RJF/r	EL39ls	EL39gs	10	40	40		
	4:20 PM W5LUA/r	EL39vu	EL49xf	10	221	221		
9/18/2016	7:25 AM W5LUA/r	EM50ki	EL49xf	10	153	153		
	8:05 AM WA8RJF/r	EM50ki	EM50gf	10	35	35		
	9:03 AM WA8RJF/r	EM50ki	EM50jh	10	9	9		
	9:26 AM WA8RJF/r	EM50mj	EM50jh	10	26	26		
	9:50 AM W5LUA/r	EM50mj	EL49xf	10	166	166		
	11:19 AM W5LUA/r	EM50ri	EL49xf	10	191	191		
	11:27 AM WA8RJF/r	EM50ri	EM50mj	10	40	40		
	3:33 PM AA2LY/r	EM60fg	EL79hw	10	212	212		100
	3:40 PM W5LUA/r	EM60fg	EL49xf	10	268	268		
	5:45 PM AA2LY/r	EM60li	EL79hw	10	167	167		
	5:48 PM N2CYM/r	EM60li	EM60oj	10	24	24		100
	6:46 PM K4SME/r	EM60li	EL88od	10	480	480		100

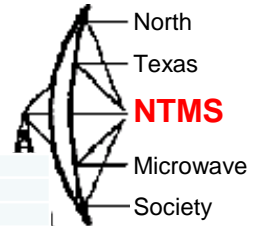
	km	km	QSO pts	Total
	5119			
	x2	x1		
Total Score	10238	949	1200	12387

W5LUA Home Score



		GMT	My Grid	My QTH	DX worked	DX QTH	Station Grid	DX (km)	Unique Call
11/8/2016	10368.1	1331Z	EM13qc	Home	WA5YWC/R	Rover	EM13nf	27	100
	10368.1	1345Z	EM13qc	Home	K5ZSJ/R	Rover	EM13ne	25	100
	10368.1	1409Z	EM13qc	Home	N5WCO	Home	EM12mo	64	100
	10368.1	1428Z	EM13qc	Home	WA5YWC/R	Rover	EM13oi	32	
	10368.1	1514Z	EM13qc	Home	WA5YWC/R	Rover	EM13qd	5	
5/1/2016	10368.1	0149Z	EM13qc	Home	WA5VJB	Home	EM12lq	60	100
5/2/2016	10368.1	0051Z	EM13qc	Home	K5LLL	Home	EM10kf	322	100
	10368.1	0114Z	EM13qc	Home	K0MHC/R	Rover	EM00kb	412	100
8/7/2016	10368.1	0121Z	EM13qc	Home	AA5C	Home	EM13se	18	100
8/20/2016	10368.1	1106Z	EM13qc	Home	K5LLL	Home	EM10kf	322	
	10368.1	1231Z	EM13qc	Home	AA5C	Home	EM13se	18	
	10368.1	1305Z	EM13qc	Home	N5WCO	Home	EM12mo	64	
	10368.1	1649Z	EM13qc	Home	K5TR	Home	EM00uf	356	100
	10368.1	1756Z	EM13qc	Home	K5TRA	Home	EM10bf	340	100
	10368.1	1805Z	EM13qc	Home	WA5TKU/R	Rover	EM13jg	57	100
	10368.1	1921Z	EM13qc	Home	N5BRG/R	Rover	EM13il	75	100
	10368.1	2005Z	EM13qc	Home	AA5AM	Home	EM13sg	24	100
	10368.1	2013Z	EM13qc	Home	WA5TKU/R	Rover	EM13jj	63	
	10368.1	2115Z	EM13qc	Home	WA5TKU/R	Rover	EM13hi	75	
8/21/2016	10368.1	0053Z	EM13qc	Home	K5ZSJ/R	Rover	EM13ne	25	
	10368.1	1154Z	EM13qc	Home	WA5VJB	Home	EM12lq	60	
	10368.1	1602Z	EM13qc	Home	N5BRG/R	Rover	EM13mj	45	
9/10/2016	10368.1	0102Z	EM13qc	Home	K5AND	Home	EM00xh	337	100
							Totals	2826	1300
							Total Score	W5LUA Home	4126

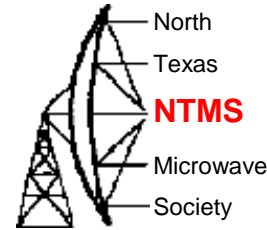
W5LUA Rover to Rover



9/17/2016	7:14 AMWA5YWC	EL49xf	EL29oh	462	100
	7:40 AMWA8RJF	EL49xf	EL29ql	446	100
	7:57 AMAA2LY	EL49xf	EL79hw	459	100
	9:16 AMWA5YWC	EL49xf	EL29tn	422	
	9:50 AMWA8RJF	EL49xf	EL29tn	422	
	10:31 AMWA5YWC	EL49xf	EL29ts	424	
	10:42 AMWA8RJF	EL49xf	EL29ts	424	
	11:35 AMWA5YWC	EL49xf	EL29xu	394	
	12:17 AMWA8RJF	EL49xf	EL29xu	394	
	12:40 AMWA5YWC	EL49xf	EL39bs	377	
	1:09 PMWA5YWC	EL49xf	EL39fs	345	
	1:14 PMWA8RJF	EL49xf	EL39bs	377	
	1:58 PMWA8RJF	EL49xf	EL39er	352	
	2:39 PMWA5YWC	EL49xf	EL39ls	297	
	2:50 PMWA8RJF	EL49xf	EL39gs	337	
	3:43 PMWA8RJF	EL49xf	EL39it	322	
	4:20 PMWA5YWC	EL49xf	EL39vu	221	
	4:38 PMWA8RJF	EL49xf	EL39kt	306	
5:32 PMWA8RJF	EL49xf	EM30la	303		
9/18/2016	7:24 AMWA5YWC	EL49xf	EM50ki	153	
	7:58 AMWA8RJF	EL49xf	EM50gf	124	
	9:08 AMWA8RJF	EL49xf	EM50jh	145	
	9:49 AMWA5YWC	EL49xf	EM50mj	166	
	10:16 AMN2CYM	EL49xf	EL79gw	451	100
	11:00 AMWA8RJF	EL49xf	EM50mj	166	
	11:18 AMWA5YWC	EL49xf	EM50ri	191	
	3:25 PMWA8RJF	EL49xf	EM60fg	268	
	3:40 PMWA5YWC	EL49xf	EM60fg	268	
	5:19 PMN2CYM	EL49xf	EM60oj	340	
11/5/2016	9:05 AMWA5YWC	EM13of	EM13nf	8	
	9:33 AMWA5YWC	EM13nh	EM13oi	9	
					9373
		X2 for Rover to Rover		18746	400
		Total Rover score		19146	

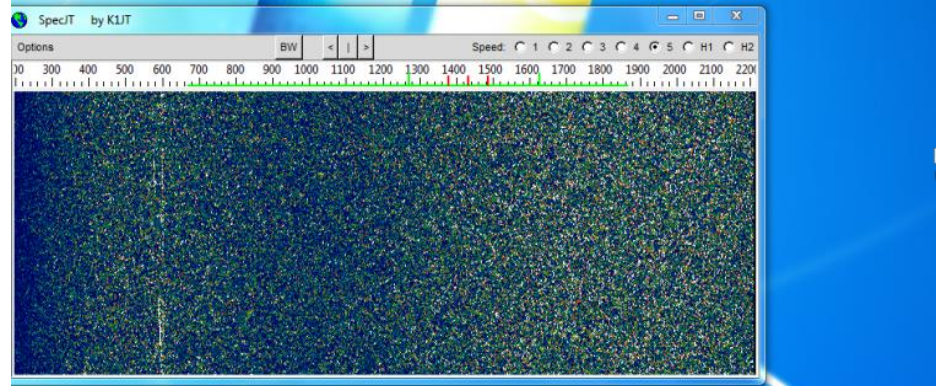
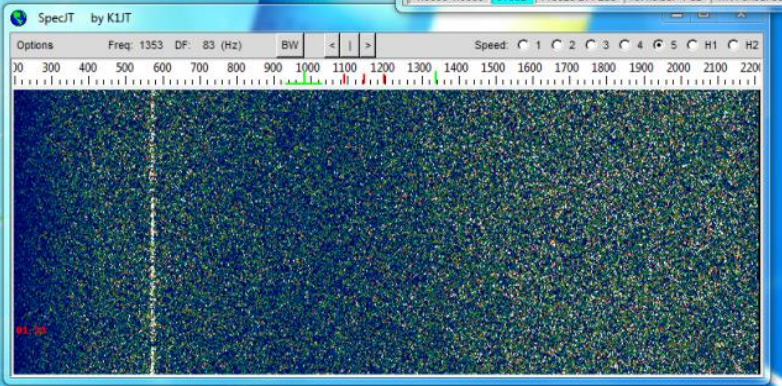
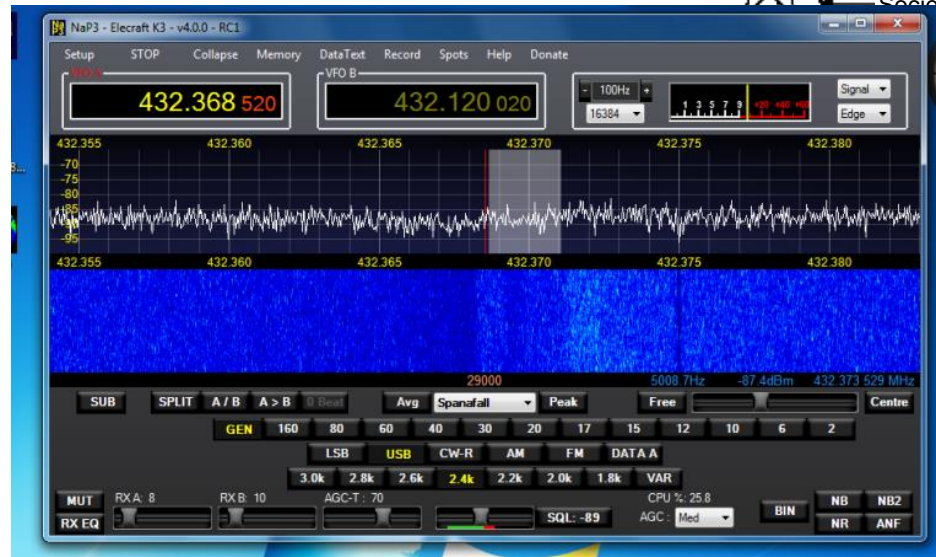
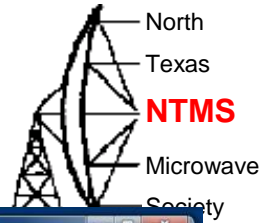
Total Event Score: 23,272

N5PYK/B 432.369 zero beat

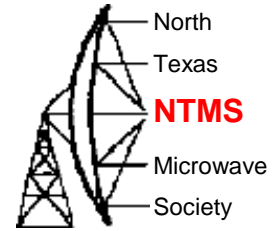


- Joe upped the power level to 50 watts
- Yagi aimed towards DFW area
- Location in Lubbock, Texas at the National Weather Service DM93bm
- Distance ~300 miles to EM13qc
- Hear on tropo and aircraft scatter 24/7
- I use the WSJT waterfall to monitor the beacon's propagation
<https://physics.princeton.edu/pulsar/k1jt/>

N5PYK/B 432.369 zero beat



W5HN/B 10 GHz Aircraft Scatter



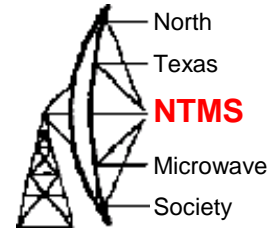
The screenshot displays the FlexRadio Systems PowerSDR v2.7.2 interface. The main window shows a scatter plot with a frequency range from 10368.330.0 to 10368.400.0 MHz. The plot shows a dense field of blue noise with a prominent vertical yellow line at approximately 10368.370 MHz. The signal strength is indicated as -84.4 dBm. The interface includes various control panels for tuning, filtering, and monitoring. The RX1 Meter shows a signal strength of -84.4 dBm. The TX Meter shows a signal strength of -84.4 dBm. The interface also displays the time 23:48:04 and the date 11/27/2016.

Beacon Status

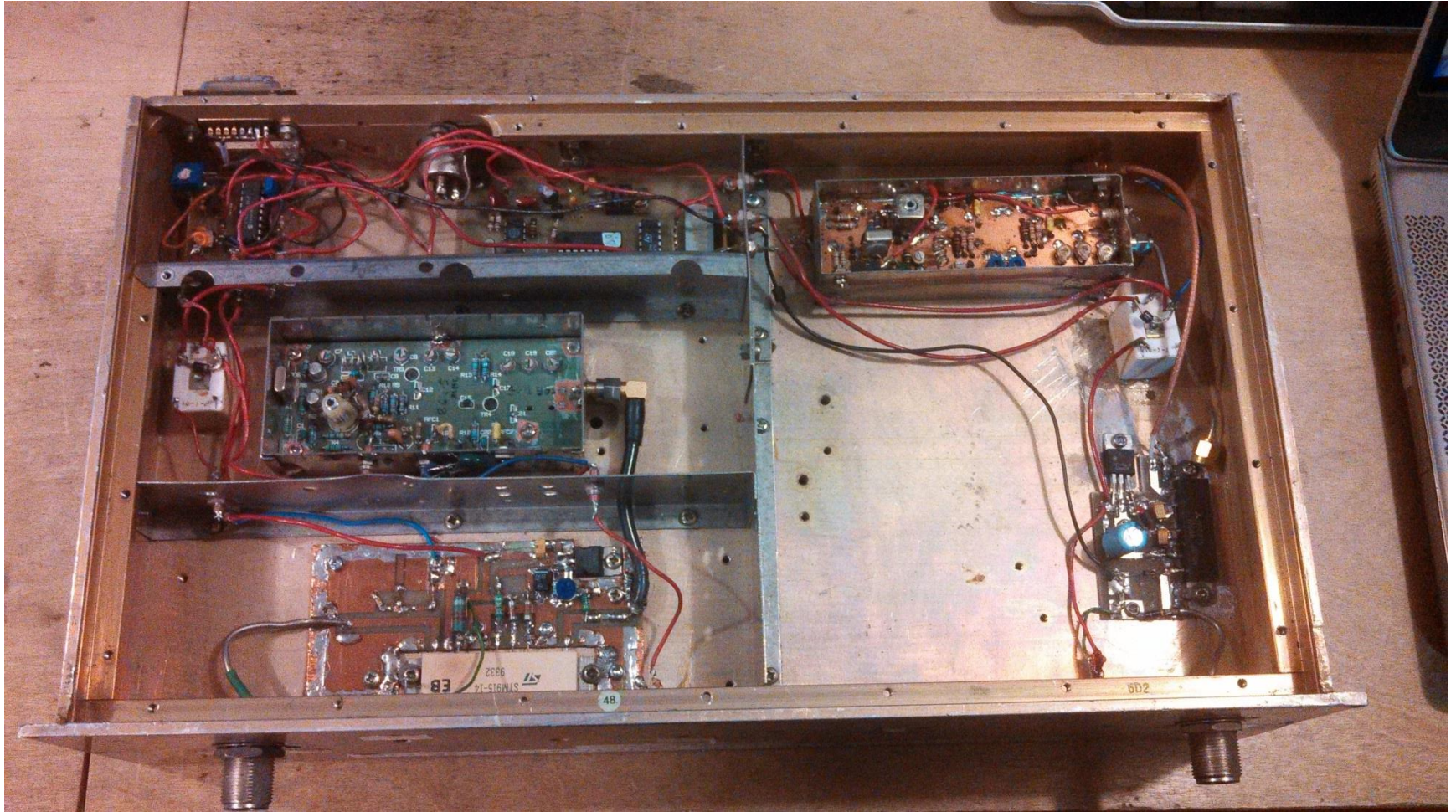
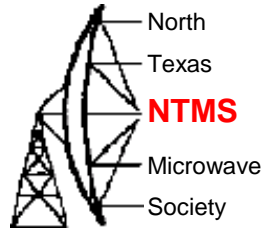


- 432 MHz repaired by Harold K5S XK and ready for re-install
- 3456 MHz repaired by W5LUA and ready for re-install
- 902/1296 MHz, 902 ok, I received schematics for the 1296 board ...but after some unsuccessful attempts at fixing the old transmitter strip, I decided to call N5AC and acquire a 902 and a 1296 MHz beacon board
- Results and progress follow....

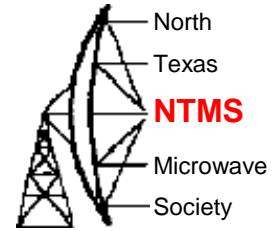
1296 MHz Beacon built by WW2R



902/1296 Beacon bottom view

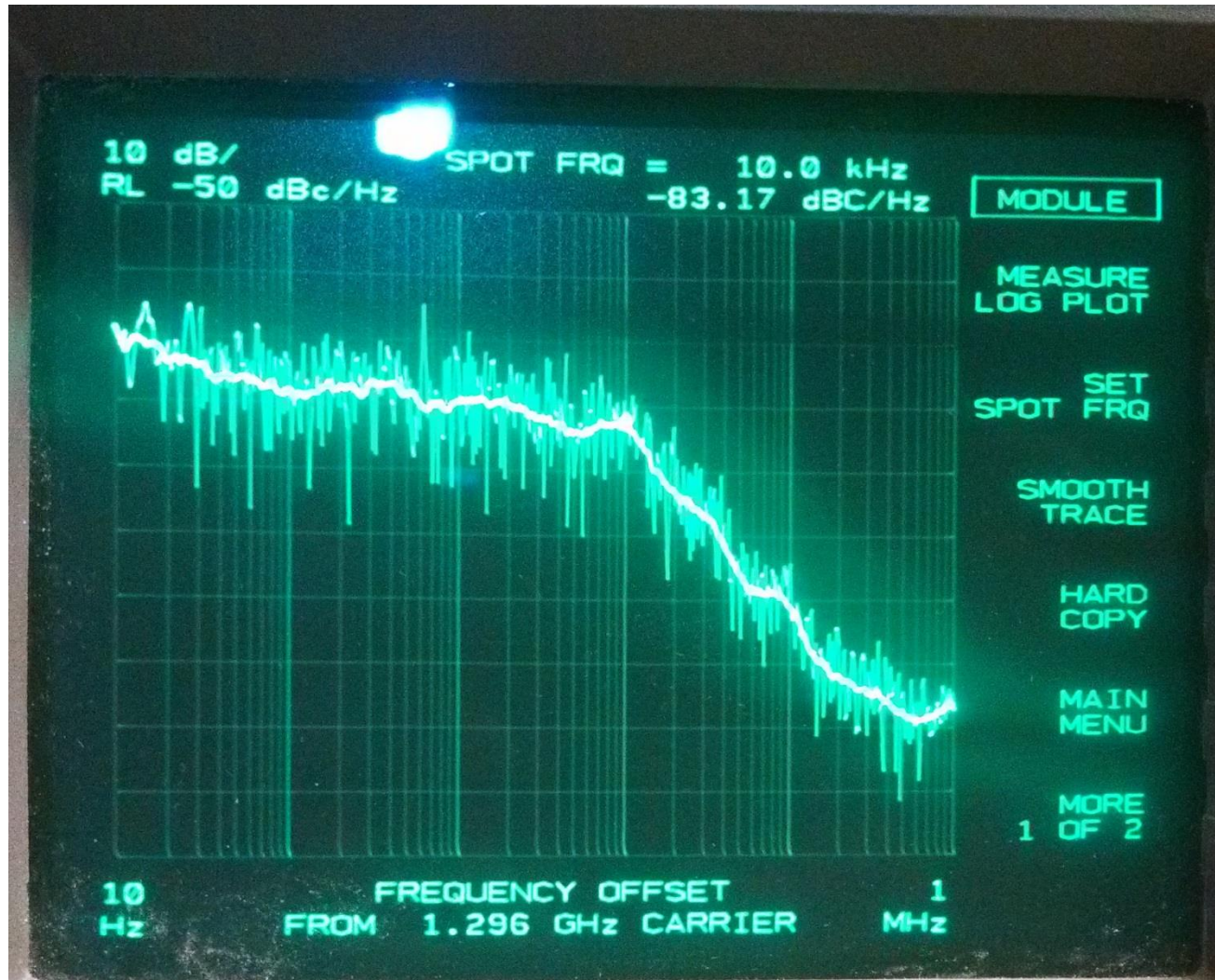
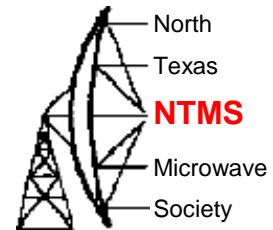


902/1296 MHz Upgrade

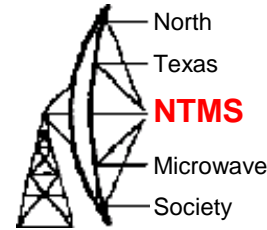


- Use A-32 for 1296 beacon

1296.375 MHz A-32 Phase Noise



NTMS Website Stats



Stats | Config

Summary

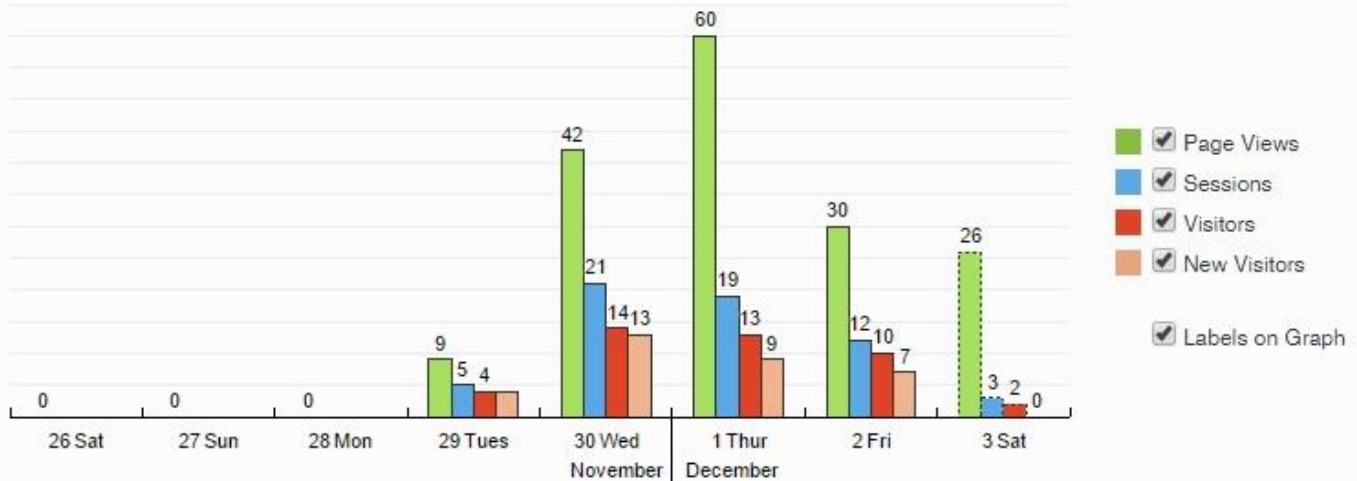
- Hourly
- Popular Pages
- Entry Pages
- Exit Pages
- Bounce Rate New
- Incoming Traffic
- Custom Tags New
- Search Engine Wars
- Exit Links
- Exit Link Activity
- Downloads
- Download Activity
- Visitor Paths
- Visit Length
- Returning Visits
- Recent Pageload Activity
- Recent Visitor Activity
- Recent Visitor Map
- Country/State/City/ISP
- Browsers
- System Stats
- Lookup IP Address
- Download Logs

SEO SPONSORS

[Top 10 Search Listing](#)

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 [Quarterly](#) |
 [Yearly](#)

09:17:44 3 December 2016 ■ Summary Log: No Limit



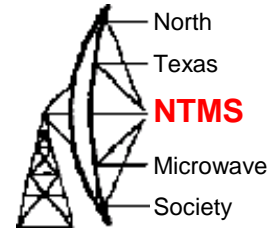
Date Range: Last 7 Days or 26 Nov 2016 - 3 Dec 2016

Graph Type: Bar Graph Area Graph Line Graph Save As Default

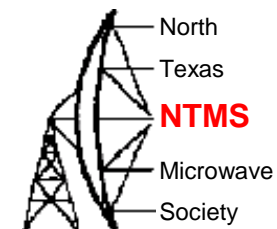


	Page Views	Sessions	Visitors	New Visitors
Total	167	60	33	33
Daily Average	21	8	6	5

Who's Looking at our website?

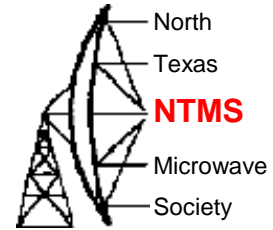


Weekly Lunches



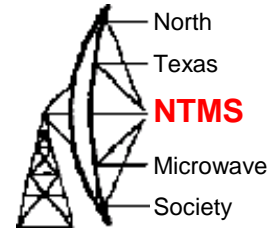
- Tuesday at 11:30AM at Texas Smokehouse BBQ at 800 E Arapaho Rd #101, Richardson, TX 75081 Telephone (972) 699-1521
- Wednesday at 11:30AM at Soda Springs Bar-B-Que at 8620 Clifford St, White Settlement, TX 76108 Telephone (817) 246-4644

Business Meeting



- Election of 2017 Officers
- Treasurer's Report
- Secretary's Report
- Moving forward in 2017

Proposed 2017 Officers



- President – Bob Stricklin N5BRG
- Vice President – Kent Britain WA5VJB
- Treasurer – Wes Atchison WA5TKU
- Secretary – Eric Haskell KC4YOE

See you in 2017



- Next NTMS meeting will be at Cowtown
- The 2017 Cowtown Hamfest will be held on January 20th and 21st 2017 at the Forest Hill Civic and Convention Center. This is the same venue as this year, located at 6901 Wichita Street, Forest Hill, TX 76140. Hours are from 3PM to 7PM on Friday and from 7AM to 3PM on Saturday.