

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091918\
 Data File : VN051316.D
 Acq On : 19 Sep 2018 14:01
 Operator : MD\SY
 Sample : VN0919WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0919WBSD01

Manual Integrations
 APPROVED

MMDadoda
 9/20/2018 1:42:08 PM

Quant Time: Sep 19 16:14:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 29 01:38:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	101428	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	542347	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	470626	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	186530	28.82	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.07%
60) 4-Bromofluorobenzene	12.40	95	203288	29.05	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.83%
63) Toluene-d8	10.09	98	665003	30.30	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.00%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	110056	17.47	ug/l	100
3) Chloromethane	2.06	50	142380	19.14	ug/l	99
4) Vinyl Chloride	2.18	62	144375	19.65	ug/l	99
5) Bromomethane	2.57	94	85648	19.12	ug/l	98
6) Chloroethane	2.70	64	87476	20.18	ug/l	95
7) Trichlorofluoromethane	3.01	101	208040	21.35	ug/l	99
8) Diethyl Ether	3.41	74	67973	19.79	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	3.76	101	125863	20.86	ug/l	97
10) 1,1-Dichloroethene	3.74	96	110851	20.23	ug/l	99
11) Methyl Iodide	3.95	142	109150	21.35	ug/l	98
12) Methyl Acetate	4.33	43	91956	14.51	ug/l	99
13) Acrolein	3.61	56	32102	228.76	ug/l	96
14) Acrylonitrile	5.00	53	185776	86.70	ug/l	100
15) Acetone	3.82	58	45895	83.70	ug/l	88
16) Carbon Disulfide	4.05	76	329520	20.00	ug/l	99
17) Allyl chloride	4.33	41	160383	18.60	ug/l	99
18) Methylene Chloride	4.55	84	130863	20.34	ug/l	97
19) trans-1,2-Dichloroethene	5.04	96	119721	20.50	ug/l	95
20) Diisopropyl ether	5.96	45	353973	19.77	ug/l	96
21) 1,1-Dichloroethane	5.85	63	218967	19.95	ug/l	100
22) cis-1,2-Dichloroethene	6.83	96	135497	20.54	ug/l	99
23) tert-Butyl Alcohol	4.79	59	37676	82.68	ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	290506	19.38	ug/l	99
25) Chloroform	7.37	83	231640	21.15	ug/l	99
26) Cyclohexane	7.65	56	178637	19.65	ug/l #	96
29) 1,1-Dichloropropene	7.80	75	166277	20.48	ug/l	98
30) 2-Butanone	6.84	43	196136	78.52	ug/l	98
31) 2,2-Dichloropropane	6.83	77	170618	21.60	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	195558	21.24	ug/l	98
33) Carbon Tetrachloride	7.78	117	176816	21.32	ug/l	96
34) Benzene	8.04	78	517071	20.59	ug/l	97
35) Methacrylonitrile	7.17	41	40134	14.67	ug/l	92
36) 1,2-Dichloroethane	8.13	62	153865	20.25	ug/l	99
37) Trichloroethene	8.84	130	143289	21.83	ug/l	94
38) Methylcyclohexane	9.08	83	179830	20.62	ug/l	97
39) 1,2-Dichloropropane	9.12	63	134325	20.48	ug/l	99
40) Dibromomethane	9.21	93	80608	20.40	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	171496	20.59	ug/l	99
42) Vinyl Acetate	5.90	43	1108761	96.37	ug/l	98
43) Ethyl Acetate	6.93	43	94508	18.47	ug/l	99
44) Isopropyl Acetate	8.17	43	162279	17.97	ug/l #	76
45) 1,4-Dioxane	9.20	88	23316	347.62	ug/l	98
46) Methyl methacrylate	9.20	41	77289	17.09	ug/l	97
47) n-amyl Acetate	12.07	43	113356	15.62	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	157722	19.32	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	194564	20.74	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	115579	20.13	ug/l	99
51) Ethyl methacrylate	10.43	69	128602	18.31	ug/l	98
52) 1,3-Dichloropropane	10.71	76	187830	19.75	ug/l	98
53) Dibromochloromethane	10.90	129	133409	20.43	ug/l	99
54) 1,2-Dibromoethane	11.01	107	112177	19.76	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	242001	82.79	ug/l	98
56) Bromoform	12.13	173	91995	19.81	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	440085	81.73	ug/l	97
59) 2-Hexanone	10.75	43	269361	76.53	ug/l	98
61) Tetrachloroethene	10.63	164	132450	22.58	ug/l	99
62) Toluene	10.16	91	559200	21.30	ug/l	100
64) Chlorobenzene	11.44	112	348066	21.39	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	135967	22.13	ug/l	99
66) Ethyl Benzene	11.51	91	560712	20.62	ug/l	99
67) m/p-Xylenes	11.62	106	451513	43.15	ug/l	98
68) o-Xylene	11.95	106	215003	21.50	ug/l	97
69) Styrene	11.96	104	335897	21.13	ug/l	99
70) Isopropylbenzene	12.25	105	568210	21.39	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.50	83	137826	19.16	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	109502m	17.64	ug/l	
73) Bromobenzene	12.53	156	147232	21.06	ug/l	94
74) n-propylbenzene	12.59	91	614274	20.45	ug/l	97
75) 2-Chlorotoluene	12.67	91	384726	21.08	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	469826	21.64	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	31181	17.64	ug/l	99
78) 4-Chlorotoluene	12.77	91	365987	20.37	ug/l	98
79) tert-butylbenzene	12.99	119	398001	21.11	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	465381	21.50	ug/l	100
81) sec-Butylbenzene	13.17	105	520781	21.11	ug/l	98
82) p-Isopropyltoluene	13.29	119	444993	20.90	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	240177	20.32	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	222506	19.87	ug/l	99
85) n-Butylbenzene	13.62	91	300111	18.47	ug/l	98
86) Hexachloroethane	13.88	117	85457	20.91	ug/l	91
87) 1,2-Dichlorobenzene	13.65	146	236508	20.33	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	18309	18.19	ug/l	92
89) 1,2,4-Trichlorobenzene	14.91	180	76956	14.86	ug/l	99
90) Hexachlorobutadiene	15.01	225	83850	23.83	ug/l	99
91) Naphthalene	15.13	128	135721	16.96	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	85854	16.52	ug/l	99

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(#) = qualifier out of range (m) = manual integration (+) = signals summed

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