

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092818\
 Data File : VN051621.D
 Acq On : 28 Sep 2018 17:58
 Operator : MD\SY
 Sample : VN0928WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0928WBSD01

Manual Integrations
 APPROVED

MMDadoda
 10/3/2018 5:27:45 PM

Quant Time: Sep 29 05:15:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Sep 29 01:07:29 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	97294	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	510394	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	337593	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	210996	31.15	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.83%
60) 4-Bromofluorobenzene	12.40	95	153103	29.49	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.30%
63) Toluene-d8	10.09	98	638667	40.10	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	133.67%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	189692	22.216 ug/l	99
3) Chloromethane	2.06	50	212814	22.273 ug/l	100
4) Vinyl Chloride	2.18	62	200603	21.401 ug/l	96
5) Bromomethane	2.57	94	109378	22.465 ug/l	100
6) Chloroethane	2.70	64	89087	18.945 ug/l	97
7) Trichlorofluoromethane	3.02	101	232438	20.296 ug/l	99
8) Diethyl Ether	3.41	74	70770	19.674 ug/l	91
9) 1,1,2-Trichlorotrifluoroet	3.76	101	100702	15.556 ug/l	97
10) 1,1-Dichloroethene	3.74	96	88885	15.130 ug/l	98
11) Methyl Iodide	3.95	142	109890	14.531 ug/l	94
12) Methyl Acetate	4.33	43	55033	10.614 ug/l #	82
13) Acrolein	3.61	56	38317	66.892 ug/l	94
14) Acrylonitrile	4.99	53	120233	57.904 ug/l	99
15) Acetone	3.82	58	34806	63.932 ug/l	100
16) Carbon Disulfide	4.05	76	223568	11.809 ug/l	99
17) Allyl chloride	4.33	41	110656	10.530 ug/l	91
18) Methylene Chloride	4.55	84	85142	12.606 ug/l	92
19) trans-1,2-Dichloroethene	5.04	96	81191	13.019 ug/l	92
20) Diisopropyl ether	5.96	45	229393	11.003 ug/l	96
21) 1,1-Dichloroethane	5.85	63	149287	12.082 ug/l	98
22) cis-1,2-Dichloroethene	6.83	96	110902	16.283 ug/l	95
23) tert-Butyl Alcohol	4.79	59	28087m	70.716 ug/l	
24) Methyl tert-Butyl Ether	5.05	73	209621	13.577 ug/l #	83
25) Chloroform	7.37	83	223817	18.945 ug/l	98
26) Cyclohexane	7.66	56	185069m	17.308 ug/l	
29) 1,1-Dichloropropene	7.79	75	163374	18.772 ug/l	100
30) 2-Butanone	6.84	43	176167	74.372 ug/l #	95
31) 2,2-Dichloropropane	6.83	77	161062	17.147 ug/l	100
32) 1,1,1-Trichloroethane	7.57	97	193766	19.815 ug/l	97
33) Carbon Tetrachloride	7.78	117	175221	19.936 ug/l	97
34) Benzene	8.04	78	531447	20.582 ug/l	98
35) Methacrylonitrile	7.18	41	36626m	13.753 ug/l	
36) 1,2-Dichloroethane	8.13	62	175134	21.279 ug/l	99
37) Trichloroethene	8.84	130	134451	20.281 ug/l	98
38) Methylcyclohexane	9.08	83	181351	18.058 ug/l	95
39) 1,2-Dichloropropane	9.12	63	132904	18.784 ug/l	99
40) Dibromomethane	9.21	93	78038	19.855 ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	9.40	83	171573	19.999	ug/l	97
42) Vinyl Acetate	5.90	43	759771	57.615	ug/l	96
43) Ethyl Acetate	6.93	43	65495	13.063	ug/l #	91
44) Isopropyl Acetate	8.17	43	182817	18.622	ug/l	99
45) 1,4-Dioxane	9.20	88	21872	411.857	ug/l	96
46) Methyl methacrylate	9.20	41	81080	17.754	ug/l	94
47) n-amyl Acetate	12.07	43	88088	11.992	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	146032	17.055	ug/l	96
49) cis-1,3-Dichloropropene	9.84	75	194749	19.454	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	96569	17.386	ug/l	97
51) Ethyl methacrylate	10.43	69	115883	17.196	ug/l	97
52) 1,3-Dichloropropane	10.71	76	139969	14.697	ug/l	97
53) Dibromochloromethane	10.90	129	96186	15.205	ug/l	99
54) 1,2-Dibromoethane	11.01	107	76985	14.445	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	288144	86.506	ug/l	98
56) Bromoform	12.13	173	67842	16.162	ug/l	98
58) 4-Methyl-2-Pentanone	9.99	43	467983	122.096	ug/l	99
59) 2-Hexanone	10.75	43	220049	87.267	ug/l	94
61) Tetrachloroethene	10.63	164	109138	22.834	ug/l	97
62) Toluene	10.16	91	529003	25.555	ug/l	100
64) Chlorobenzene	11.44	112	242684	19.390	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	97633	20.429	ug/l	97
66) Ethyl Benzene	11.51	91	395123	18.650	ug/l	98
67) m/p-Xylenes	11.62	106	314657	38.537	ug/l	99
68) o-Xylene	11.95	106	154721	19.850	ug/l	93
69) Styrene	11.96	104	237830	19.440	ug/l	99
70) Isopropylbenzene	12.25	105	411484	19.791	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	92488	18.387	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	80933m	18.819	ug/l	
73) Bromobenzene	12.53	156	108361	20.943	ug/l	86
74) n-propylbenzene	12.59	91	450940	18.631	ug/l	97
75) 2-Chlorotoluene	12.67	91	275943	19.092	ug/l	97
76) 1,3,5-Trimethylbenzene	12.73	105	352463	20.288	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	23646	17.360	ug/l	97
78) 4-Chlorotoluene	12.77	91	272000	19.052	ug/l	98
79) tert-butylbenzene	12.99	119	307927	20.459	ug/l	97
80) 1,2,4-Trimethylbenzene	13.04	105	352151	20.294	ug/l	98
81) sec-Butylbenzene	13.17	105	404524	19.457	ug/l	98
82) p-Isopropyltoluene	13.29	119	360171	20.269	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	187714	20.820	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	175047	20.655	ug/l	99
85) n-Butylbenzene	13.62	91	259241	17.774	ug/l	98
86) Hexachloroethane	13.88	117	67277	18.929	ug/l	82
87) 1,2-Dichlorobenzene	13.65	146	180756	20.495	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	14458	19.720	ug/l	85
89) 1,2,4-Trichlorobenzene	14.91	180	88648	21.475	ug/l	98
90) Hexachlorobutadiene	15.01	225	78835	23.425	ug/l	98
91) Naphthalene	15.13	128	162073	21.634	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	83034	20.000	ug/l	99

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

