

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN110118\
 Data File : VN052090.D
 Acq On : 1 Nov 2018 8:22
 Operator : MD\SY
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 11/2/2018 9:20:56 AM

Quant Time: Nov 02 05:23:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N110118W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 02 05:15:09 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	53191	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	301478	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	269122	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	126369	32.01	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	106.70%
60) 4-Bromofluorobenzene	12.40	95	129380	30.05	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.17%
63) Toluene-d8	10.09	98	391080	30.90	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.00%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.85	85	15354	4.322 ug/l	98
3) Chloromethane	2.06	50	20673	5.092 ug/l	98
4) Vinyl Chloride	2.19	62	20415	5.126 ug/l	100
5) Bromomethane	2.58	94	14988	5.513 ug/l	93
6) Chloroethane	2.71	64	14398	5.653 ug/l	98
7) Trichlorofluoromethane	3.02	101	29251	5.423 ug/l	97
8) Diethyl Ether	3.42	74	9657	5.303 ug/l	93
9) 1,1,2-Trichlorotrifluoroet	3.76	101	17219	5.462 ug/l	83
10) 1,1-Dichloroethene	3.74	96	15609	5.306 ug/l	84
11) Methyl Iodide	3.96	142	19311	4.541 ug/l	94
12) Methyl Acetate	4.32	43	14623m	5.722 ug/l	
13) Acrolein	3.61	56	6277m	23.634 ug/l	
14) Acrylonitrile	4.99	53	30355m	27.647 ug/l	
15) Acetone	3.82	58	8053	31.033 ug/l	79
16) Carbon Disulfide	4.05	76	43213	4.975 ug/l	99
17) Allyl chloride	4.33	41	26351	5.276 ug/l	91
18) Methylene Chloride	4.55	84	21716	5.981 ug/l	95
19) trans-1,2-Dichloroethene	5.04	96	16523	5.127 ug/l	93
20) Diisopropyl ether	5.94	45	56833m	5.234 ug/l	
21) 1,1-Dichloroethane	5.86	63	34851	5.495 ug/l	96
22) cis-1,2-Dichloroethene	6.83	96	19395	5.153 ug/l	95
23) tert-Butyl Alcohol	4.79	59	4227m	24.402 ug/l	
24) Methyl tert-Butyl Ether	5.04	73	43214	5.182 ug/l #	66
25) Chloroform	7.37	83	33914	5.325 ug/l	92
26) Cyclohexane	7.65	56	30328	5.334 ug/l	95
29) 1,1-Dichloropropene	7.79	75	25326	5.291 ug/l	99
30) 2-Butanone	6.83	43	36743	28.826 ug/l #	86
31) 2,2-Dichloropropane	6.83	77	26360m	5.344 ug/l	
32) 1,1,1-Trichloroethane	7.57	97	27586	5.151 ug/l	99
33) Carbon Tetrachloride	7.77	117	25222	5.296 ug/l	97
34) Benzene	8.04	78	75646	5.398 ug/l #	64
35) Methacrylonitrile	7.17	41	8473m	3.285 ug/l	
36) 1,2-Dichloroethane	8.12	62	27567	5.883 ug/l	96
37) Trichloroethene	8.83	130	18090	5.157 ug/l	98
38) Methylcyclohexane	9.08	83	31260	5.354 ug/l	98
39) 1,2-Dichloropropane	9.12	63	20265	5.432 ug/l	95
40) Dibromomethane	9.20	93	12842	5.585 ug/l	94

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

41) Bromodichloromethane	9.40	83	24336	5.172	ug/l	96
42) Vinyl Acetate	5.90	43	189459	25.389	ug/l	100
43) Ethyl Acetate	6.83	43	37557m	4.233	ug/l	
44) Isopropyl Acetate	8.16	43	29198	5.505	ug/l	95
45) 1,4-Dioxane	9.19	88	2481	102.542	ug/l #	70
46) Methyl methacrylate	9.20	41	13841	5.243	ug/l	93
47) n-amyl Acetate	12.07	43	24385	5.068	ug/l #	100
48) t-1,3-Dichloropropene	10.38	75	22400	4.795	ug/l	97
49) cis-1,3-Dichloropropene	9.84	75	25365	4.704	ug/l	94
50) 1,1,2-Trichloroethane	10.56	97	16437	5.406	ug/l	89
51) Ethyl methacrylate	10.43	69	19876	5.058	ug/l	97
52) 1,3-Dichloropropane	10.71	76	29026	5.480	ug/l	83
53) Dibromochloromethane	10.90	129	14573	4.439	ug/l	90
54) 1,2-Dibromoethane	11.00	107	15935	5.168	ug/l	96
55) 2-Chloroethyl vinyl ether	9.69	63	52802	24.536	ug/l	99
56) Bromoform	12.12	173	8332	4.394	ug/l #	97
58) 4-Methyl-2-Pentanone	9.98	43	81596	28.295	ug/l	98
59) 2-Hexanone	10.75	43	57973	29.197	ug/l	98
61) Tetrachloroethene	10.63	164	15463	5.283	ug/l	95
62) Toluene	10.15	91	78420	5.191	ug/l	96
64) Chlorobenzene	11.43	112	50845	5.310	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	16022	4.916	ug/l	95
66) Ethyl Benzene	11.51	91	83945	5.144	ug/l	94
67) m/p-Xylenes	11.62	106	63975	10.183	ug/l	98
68) o-Xylene	11.95	106	29015	4.844	ug/l	95
69) Styrene	11.96	104	45889	4.754	ug/l	96
70) Isopropylbenzene	12.25	105	81983	5.099	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	20162	5.701	ug/l #	94
72) 1,2,3-Trichloropropane	12.56	75	17825m	6.061	ug/l	
73) Bromobenzene	12.53	156	16947	4.756	ug/l	92
74) n-propylbenzene	12.59	91	96513	5.154	ug/l	97
75) 2-Chlorotoluene	12.67	91	57848	5.359	ug/l	94
76) 1,3,5-Trimethylbenzene	12.73	105	65323	5.066	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	4458	4.582	ug/l	86
78) 4-Chlorotoluene	12.77	91	54277	4.993	ug/l	97
79) tert-butylbenzene	12.99	119	56207	5.004	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	62388	4.857	ug/l	98
81) sec-Butylbenzene	13.17	105	76418	4.944	ug/l	95
82) p-Isopropyltoluene	13.29	119	61800	4.731	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	30107	4.777	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	29626	4.749	ug/l	97
85) n-Butylbenzene	13.62	91	53686	4.749	ug/l	97
86) Hexachloroethane	13.87	117	9762	4.429	ug/l	91
87) 1,2-Dichlorobenzene	13.65	146	28883	4.824	ug/l	93
88) 1,2-Dibromo-3-Chloropropan	14.27	75	2447	5.060	ug/l	97
89) 1,2,4-Trichlorobenzene	14.91	180	9895	4.071	ug/l	91
90) Hexachlorobutadiene	15.01	225	6967	5.239	ug/l	94
91) Naphthalene	15.13	128	22727	4.057	ug/l #	94
92) 1,2,3-Trichlorobenzene	15.31	180	9452	4.462	ug/l	96

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

