

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102620\
 Data File : VN064304.D
 Acq On : 26 Oct 2020 15:55
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 10/27/2020 2:20:49 PM

Quant Time: Oct 26 16:47:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N102620W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Oct 26 16:34:22 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	51996	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	294901	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	267023	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.98	65	146456	32.05	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	106.83%
60) 4-Bromofluorobenzene	12.38	95	141421	29.76	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	99.20%
63) Toluene-d8	10.06	98	358229	30.06	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	19942	5.801 ug/l	91
3) Chloromethane	2.04	50	19957	5.644 ug/l	97
4) Vinyl Chloride	2.16	62	19466	5.465 ug/l	95
5) Bromomethane	2.54	94	12483	5.400 ug/l	94
6) Chloroethane	2.67	64	11153	5.395 ug/l	98
7) Trichlorofluoromethane	2.98	101	29869	5.016 ug/l	93
8) Diethyl Ether	3.37	74	9396	4.809 ug/l	93
9) 1,1,2-Trichlorotrifluoroet	3.71	101	16584	5.651 ug/l	85
10) 1,1-Dichloroethene	3.69	96	15126	5.349 ug/l	99
11) Methyl Iodide	3.91	142	19763	4.848 ug/l	95
12) Methyl Acetate	4.28	43	18056m	5.386 ug/l	
13) Acrolein	3.57	56	6817	25.694 ug/l #	54
14) Acrylonitrile	4.93	53	34600	25.993 ug/l	93
15) Acetone	3.77	58	12400	30.460 ug/l	85
16) Carbon Disulfide	4.01	76	47209	5.744 ug/l #	90
17) Allyl chloride	4.28	41	28148m	5.185 ug/l	
18) Methylene Chloride	4.50	84	17293	5.191 ug/l	95
19) trans-1,2-Dichloroethene	4.98	96	17007m	5.365 ug/l	
20) Diisopropyl ether	5.90	45	54507	5.209 ug/l	98
21) 1,1-Dichloroethane	5.80	63	32961m	5.349 ug/l	
22) cis-1,2-Dichloroethene	6.78	96	19187	5.217 ug/l	98
23) tert-Butyl Alcohol	4.73	59	17851m	29.245 ug/l	
24) Methyl tert-Butyl Ether	4.98	73	57037	5.663 ug/l #	78
25) Chloroform	7.32	83	32769	4.924 ug/l	94
26) Cyclohexane	7.61	56	25714	5.353 ug/l #	98
29) 1,1-Dichloropropene	7.75	75	27021	5.418 ug/l	98
30) 2-Butanone	6.78	43	61238	27.474 ug/l	99
31) 2,2-Dichloropropane	6.77	77	32139m	5.185 ug/l	
32) 1,1,1-Trichloroethane	7.52	97	31184	4.890 ug/l	97
33) Carbon Tetrachloride	7.73	117	28917	5.054 ug/l	93
34) Benzene	8.00	78	67697	4.960 ug/l #	63
35) Methacrylonitrile	7.14	41	13210m	5.891 ug/l	
36) 1,2-Dichloroethane	8.08	62	31815	5.387 ug/l #	93
37) Trichloroethene	8.80	130	18910	5.077 ug/l	94
38) Methylcyclohexane	9.05	83	25328	5.526 ug/l	99
39) 1,2-Dichloropropane	9.08	63	18099	4.921 ug/l	96
40) Dibromomethane	9.17	93	12575	4.941 ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	27112	4.921	ug/l	99
42) Vinyl Acetate	5.84	43	248879	25.385	ug/l	98
43) Ethyl Acetate	6.88	43	21303	4.514	ug/l	98
44) Isopropyl Acetate	8.13	43	45817	5.432	ug/l	95
45) 1,4-Dioxane	9.16	88	7203m	132.475	ug/l	
46) Methyl methacrylate	9.17	41	20631	5.032	ug/l	93
47) n-amyl Acetate	12.05	43	32304	4.422	ug/l	98
48) t-1,3-Dichloropropene	10.35	75	29810	4.814	ug/l	90
49) cis-1,3-Dichloropropene	9.81	75	31182	4.870	ug/l	97
50) 1,1,2-Trichloroethane	10.53	97	16743	4.922	ug/l #	85
51) Ethyl methacrylate	10.40	69	24582	4.695	ug/l	98
52) 1,3-Dichloropropane	10.68	76	29368	4.914	ug/l	96
53) Dibromochloromethane	10.87	129	18844	4.470	ug/l	93
54) 1,2-Dibromoethane	10.97	107	17386	4.780	ug/l	100
55) 2-Chloroethyl vinyl ether	9.66	63	55284	20.281	ug/l	98
56) Bromoform	12.10	173	12983	4.312	ug/l #	94
58) 4-Methyl-2-Pentanone	9.95	43	119875	26.046	ug/l	99
59) 2-Hexanone	10.72	43	89782	25.916	ug/l	100
61) Tetrachloroethene	10.60	164	18806	5.197	ug/l	97
62) Toluene	10.12	91	74153	4.966	ug/l	97
64) Chlorobenzene	11.41	112	46521	5.046	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.48	131	17549	4.742	ug/l	99
66) Ethyl Benzene	11.48	91	84058	4.890	ug/l	94
67) m/p-Xylenes	11.59	106	59605	9.424	ug/l	100
68) o-Xylene	11.92	106	30759	5.004	ug/l	96
69) Styrene	11.94	104	46952	4.573	ug/l	98
70) Isopropylbenzene	12.22	105	81158	4.974	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.48	83	21902	4.900	ug/l	95
72) 1,2,3-Trichloropropane	12.53	75	23898m	5.083	ug/l	
73) Bromobenzene	12.50	156	19198	4.830	ug/l	96
74) n-propylbenzene	12.56	91	90881	4.878	ug/l	99
75) 2-Chlorotoluene	12.65	91	55536	4.782	ug/l	97
76) 1,3,5-Trimethylbenzene	12.70	105	67411	4.878	ug/l	97
77) t-1,4-Dichloro-2-butene	12.27	75	7918	4.401	ug/l	95
78) 4-Chlorotoluene	12.75	91	57451	4.771	ug/l	97
79) tert-butylbenzene	12.97	119	58293	5.183	ug/l	98
80) 1,2,4-Trimethylbenzene	13.01	105	67654	4.820	ug/l	98
81) sec-Butylbenzene	13.14	105	77874	5.340	ug/l	99
82) p-Isopropyltoluene	13.26	119	68307	5.103	ug/l	98
83) 1,3-Dichlorobenzene	13.26	146	32683	4.692	ug/l	97
84) 1,4-Dichlorobenzene	13.34	146	32837	4.643	ug/l	98
85) n-Butylbenzene	13.59	91	63112	5.394	ug/l	97
86) Hexachloroethane	13.85	117	11592	5.002	ug/l	86
87) 1,2-Dichlorobenzene	13.63	146	32773	4.803	ug/l	95
88) 1,2-Dibromo-3-Chloropropan	14.24	75	4860	4.446	ug/l	98
89) 1,2,4-Trichlorobenzene	14.88	180	18232	4.729	ug/l	97
90) Hexachlorobutadiene	14.98	225	11532	5.489	ug/l	90
91) Naphthalene	15.10	128	47522	4.159	ug/l	99
92) 1,2,3-Trichlorobenzene	15.28	180	17315	4.677	ug/l	94

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

