

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102320\
 Data File : VN064279.D
 Acq On : 23 Oct 2020 9:58
 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
 10/26/2020 1:38:35 PM

Quant Time: Oct 23 12:10:22 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N102320W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 23 11:22:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	47904	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	274544	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	246767	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.98	65	131906	33.04	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	110.13%#
60) 4-Bromofluorobenzene	12.37	95	132791	30.22	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	100.73%
63) Toluene-d8	10.06	98	330516	29.66	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.87%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	12189	3.878 ug/l	94
3) Chloromethane	2.04	50	14496	4.492 ug/l	99
4) Vinyl Chloride	2.16	62	15363	4.848 ug/l	94
5) Bromomethane	2.53	94	11766	6.031 ug/l	95
6) Chloroethane	2.68	64	9406	5.098 ug/l	93
7) Trichlorofluoromethane	2.99	101	27583	5.411 ug/l	93
8) Diethyl Ether	3.37	74	9536	5.528 ug/l	91
9) 1,1,2-Trichlorotrifluoroet	3.73	101	13701m	5.087 ug/l	
10) 1,1-Dichloroethene	3.70	96	12788	4.837 ug/l	88
11) Methyl Iodide	3.91	142	16712	4.424 ug/l	96
12) Methyl Acetate	4.27	43	15243m	5.418 ug/l	
13) Acrolein	3.57	56	7426m	24.375 ug/l	
14) Acrylonitrile	4.93	53	28153	24.910 ug/l #	51
15) Acetone	3.78	58	10292	32.118 ug/l	86
16) Carbon Disulfide	4.01	76	37409	4.983 ug/l #	94
17) Allyl chloride	4.27	41	24917	5.111 ug/l	93
18) Methylene Chloride	4.50	84	16360m	5.387 ug/l	
19) trans-1,2-Dichloroethene	4.99	96	15692m	5.498 ug/l	
20) Diisopropyl ether	5.89	45	45738	5.023 ug/l	95
21) 1,1-Dichloroethane	5.79	63	27345	4.932 ug/l	96
22) cis-1,2-Dichloroethene	6.78	96	17141	5.149 ug/l #	87
23) tert-Butyl Alcohol	4.73	59	13996m	26.523 ug/l	
24) Methyl tert-Butyl Ether	4.99	73	46922	5.362 ug/l #	61
25) Chloroform	7.32	83	32645	5.631 ug/l	98
26) Cyclohexane	7.60	56	22012m	5.017 ug/l	
29) 1,1-Dichloropropene	7.75	75	22499	5.105 ug/l	98
30) 2-Butanone	6.78	43	50185	26.894 ug/l	99
31) 2,2-Dichloropropane	6.77	77	29670	5.271 ug/l #	68
32) 1,1,1-Trichloroethane	7.52	97	29829	5.285 ug/l	96
33) Carbon Tetrachloride	7.72	117	25416	4.971 ug/l	88
34) Benzene	8.00	78	62179	5.058 ug/l #	72
35) Methacrylonitrile	7.13	41	10285m	5.182 ug/l	
36) 1,2-Dichloroethane	8.08	62	28030	5.528 ug/l #	95
37) Trichloroethene	8.80	130	17333	5.128 ug/l	85
38) Methylcyclohexane	9.05	83	21423	5.100 ug/l	94
39) 1,2-Dichloropropane	9.08	63	16499	4.999 ug/l	99
40) Dibromomethane	9.17	93	11768	5.093 ug/l	90

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

41) Bromodichloromethane	9.37	83	24886	5.030	ug/l	86
42) Vinyl Acetate	5.84	43	212929	24.539	ug/l #	90
43) Ethyl Acetate	6.88	43	21786	5.495	ug/l #	75
44) Isopropyl Acetate	8.12	43	36698	4.828	ug/l #	62
45) 1,4-Dioxane	9.16	88	4596	102.373	ug/l	97
46) Methyl methacrylate	9.16	41	16050	4.399	ug/l	91
47) n-amyl Acetate	12.05	43	28854	4.278	ug/l	97
48) t-1,3-Dichloropropene	10.35	75	26954	4.819	ug/l	94
49) cis-1,3-Dichloropropene	9.80	75	29539	5.129	ug/l	97
50) 1,1,2-Trichloroethane	10.53	97	15294	4.997	ug/l	96
51) Ethyl methacrylate	10.40	69	22071	4.619	ug/l	90
52) 1,3-Dichloropropane	10.68	76	27077	5.117	ug/l	96
53) Dibromochloromethane	10.87	129	18257	4.805	ug/l	90
54) 1,2-Dibromoethane	10.97	107	16062	4.958	ug/l	96
55) 2-Chloroethyl vinyl ether	9.66	63	64193	29.444	ug/l	98
56) Bromoform	12.10	173	13034	4.898	ug/l	92
58) 4-Methyl-2-Pentanone	9.95	43	97896	24.049	ug/l	98
59) 2-Hexanone	10.72	43	78505	25.962	ug/l	93
61) Tetrachloroethene	10.60	164	17489	5.407	ug/l	91
62) Toluene	10.12	91	68369	5.014	ug/l	98
64) Chlorobenzene	11.40	112	40844	4.820	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.48	131	17134	5.130	ug/l	95
66) Ethyl Benzene	11.48	91	78392	5.016	ug/l	96
67) m/p-Xylenes	11.59	106	56860	9.766	ug/l	99
68) o-Xylene	11.92	106	28044	4.966	ug/l	95
69) Styrene	11.94	104	43695	4.588	ug/l	97
70) Isopropylbenzene	12.22	105	73066	4.909	ug/l	95
71) 1,1,2,2-Tetrachloroethane	12.48	83	19470	4.762	ug/l	100
72) 1,2,3-Trichloropropane	12.53	75	21849m	5.072	ug/l	
73) Bromobenzene	12.50	156	17472	4.886	ug/l	98
74) n-propylbenzene	12.57	91	81410	4.776	ug/l	99
75) 2-Chlorotoluene	12.65	91	52639	5.003	ug/l	96
76) 1,3,5-Trimethylbenzene	12.71	105	61423	4.841	ug/l	98
77) t-1,4-Dichloro-2-butene	12.27	75	6988	4.175	ug/l	91
78) 4-Chlorotoluene	12.75	91	50951	4.611	ug/l	98
79) tert-butylbenzene	12.96	119	49509	4.767	ug/l	95
80) 1,2,4-Trimethylbenzene	13.01	105	61534	4.802	ug/l	99
81) sec-Butylbenzene	13.14	105	64589	4.815	ug/l	97
82) p-Isopropyltoluene	13.26	119	57875	4.650	ug/l	98
83) 1,3-Dichlorobenzene	13.26	146	29491	4.568	ug/l	98
84) 1,4-Dichlorobenzene	13.34	146	30887	4.808	ug/l	99
85) n-Butylbenzene	13.59	91	51117	4.640	ug/l	91
86) Hexachloroethane	13.85	117	9775	4.589	ug/l	96
87) 1,2-Dichlorobenzene	13.63	146	29089	4.619	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.24	75	4282	4.093	ug/l	99
89) 1,2,4-Trichlorobenzene	14.88	180	14791	3.982	ug/l	99
90) Hexachlorobutadiene	14.98	225	10100	5.254	ug/l	98
91) Naphthalene	15.11	128	40529	3.594	ug/l	99
92) 1,2,3-Trichlorobenzene	15.28	180	13856	3.890	ug/l	99

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

