

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102020\
 Data File : VN064192.D
 Acq On : 20 Oct 2020 10:48
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 10/23/2020 2:28:37 PM

Quant Time: Oct 20 11:23:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N102020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Oct 20 11:03:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	53705	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	299509	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	273775	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	133420	28.01	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	93.37%
60) 4-Bromofluorobenzene	12.38	95	142179	29.79	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.30%
63) Toluene-d8	10.06	98	371712	29.93	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.77%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	200811	57.237 ug/l	93
3) Chloromethane	2.04	50	192383	52.821 ug/l	100
4) Vinyl Chloride	2.16	62	193242	53.333 ug/l	98
5) Bromomethane	2.53	94	111979	48.775 ug/l	97
6) Chloroethane	2.67	64	110647	49.354 ug/l	98
7) Trichlorofluoromethane	2.98	101	295088	50.871 ug/l	99
8) Diethyl Ether	3.38	74	102214	54.427 ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.72	101	159950	53.525 ug/l	98
10) 1,1-Dichloroethene	3.70	96	154213	54.585 ug/l	98
11) Methyl Iodide	3.91	142	228520	62.303 ug/l	97
12) Methyl Acetate	4.28	43	165442	49.331 ug/l	97
13) Acrolein	3.57	56	83477	245.246 ug/l #	1
14) Acrylonitrile	4.93	53	328702	237.556 ug/l	97
15) Acetone	3.78	58	90505	231.657 ug/l	99
16) Carbon Disulfide	4.01	76	438174	52.618 ug/l	100
17) Allyl chloride	4.28	41	304141	58.719 ug/l	96
18) Methylene Chloride	4.50	84	171996	51.909 ug/l	94
19) trans-1,2-Dichloroethene	4.99	96	164941	51.779 ug/l	94
20) Diisopropyl ether	5.90	45	530065	50.938 ug/l	94
21) 1,1-Dichloroethane	5.80	63	322404	51.382 ug/l	98
22) cis-1,2-Dichloroethene	6.78	96	190664	52.439 ug/l	98
23) tert-Butyl Alcohol	4.73	59	152254	256.507 ug/l #	100
24) Methyl tert-Butyl Ether	4.99	73	507374	53.763 ug/l	100
25) Chloroform	7.33	83	337275	51.335 ug/l	98
26) Cyclohexane	7.61	56	254010	54.824 ug/l #	95
29) 1,1-Dichloropropene	7.75	75	251908	50.235 ug/l	99
30) 2-Butanone	6.78	43	520990	219.221 ug/l	98
31) 2,2-Dichloropropane	6.78	77	317562	52.593 ug/l	98
32) 1,1,1-Trichloroethane	7.53	97	321350	50.548 ug/l	98
33) Carbon Tetrachloride	7.73	117	295275	52.476 ug/l	98
34) Benzene	8.00	78	706934	50.073 ug/l #	92
35) Methacrylonitrile	7.12	41	127349	54.537 ug/l	92
36) 1,2-Dichloroethane	8.08	62	288850	47.087 ug/l	99
37) Trichloroethene	8.80	130	192294	51.190 ug/l	99
38) Methylcyclohexane	9.05	83	240744	55.633 ug/l	99
39) 1,2-Dichloropropane	9.08	63	187736	49.178 ug/l	97
40) Dibromomethane	9.17	93	128072	48.218 ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	283637	50.613	ug/l	99
42) Vinyl Acetate	5.84	43	2488491	246.189	ug/l	100
43) Ethyl Acetate	6.88	43	226819	44.052	ug/l	98
44) Isopropyl Acetate	8.13	43	426954	49.140	ug/l #	90
45) 1,4-Dioxane	9.16	88	50842	935.295	ug/l	92
46) Methyl methacrylate	9.16	41	209967	48.977	ug/l	99
47) n-amyl Acetate	12.04	43	384226	49.631	ug/l	99
48) t-1,3-Dichloropropene	10.35	75	319550	52.417	ug/l	95
49) cis-1,3-Dichloropropene	9.81	75	328099	51.788	ug/l	97
50) 1,1,2-Trichloroethane	10.53	97	173823	48.466	ug/l	98
51) Ethyl methacrylate	10.40	69	271826	51.435	ug/l	99
52) 1,3-Dichloropropane	10.68	76	296363	48.232	ug/l	99
53) Dibromochloromethane	10.87	129	221229	53.079	ug/l	97
54) 1,2-Dibromoethane	10.97	107	184193	49.059	ug/l	94
55) 2-Chloroethyl vinyl ether	9.66	63	708409	249.728	ug/l	100
56) Bromoform	12.10	173	154884	53.047	ug/l	99
58) 4-Methyl-2-Pentanone	9.95	43	1164479	233.988	ug/l	99
59) 2-Hexanone	10.72	43	855982	230.089	ug/l	99
61) Tetrachloroethene	10.60	164	181283	53.953	ug/l	97
62) Toluene	10.12	91	783258	51.646	ug/l	98
64) Chlorobenzene	11.41	112	479572	51.806	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.48	131	193288	53.569	ug/l	98
66) Ethyl Benzene	11.48	91	903858	53.549	ug/l	99
67) m/p-Xylenes	11.60	106	660322	105.801	ug/l	100
68) o-Xylene	11.92	106	323514	54.181	ug/l	95
69) Styrene	11.94	104	548670	53.820	ug/l	99
70) Isopropylbenzene	12.22	105	856131	53.822	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.48	83	236889	48.527	ug/l	99
72) 1,2,3-Trichloropropane	12.53	75	242773m	49.797	ug/l	
73) Bromobenzene	12.50	156	205943	51.123	ug/l	97
74) n-propylbenzene	12.57	91	973060	52.576	ug/l	99
75) 2-Chlorotoluene	12.65	91	593430	52.517	ug/l	97
76) 1,3,5-Trimethylbenzene	12.71	105	732689	54.561	ug/l	99
77) t-1,4-Dichloro-2-butene	12.27	75	92639	50.911	ug/l	97
78) 4-Chlorotoluene	12.75	91	626740	52.618	ug/l	99
79) tert-butylbenzene	12.97	119	598148	55.197	ug/l	98
80) 1,2,4-Trimethylbenzene	13.01	105	723598	53.591	ug/l	98
81) sec-Butylbenzene	13.14	105	773318	54.439	ug/l	99
82) p-Isopropyltoluene	13.26	119	711459	54.919	ug/l	99
83) 1,3-Dichlorobenzene	13.26	146	366876	51.658	ug/l	98
84) 1,4-Dichlorobenzene	13.33	146	371438	52.260	ug/l	98
85) n-Butylbenzene	13.59	91	635884	56.169	ug/l	99
86) Hexachloroethane	13.85	117	123412	55.312	ug/l	95
87) 1,2-Dichlorobenzene	13.63	146	357737	51.700	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.24	75	58515	49.958	ug/l	98
89) 1,2,4-Trichlorobenzene	14.88	180	219670	59.480	ug/l	97
90) Hexachlorobutadiene	14.98	225	108523	56.795	ug/l	98
91) Naphthalene	15.10	128	667257	60.012	ug/l	99
92) 1,2,3-Trichlorobenzene	15.28	180	210220	59.245	ug/l	100

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

