

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032423\
 Data File : VN077165.D
 Acq On : 23 Mar 2023 22:34
 Operator : JC\MD
 Sample : VSTDIC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC010

Quant Time: Mar 24 04:56:50 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N032423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 24 04:51:59 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Krupa Patel 03/24/2023
 Supervised By :Semsettin Yesilyurt 03/27/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.825	128	40789	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	272157	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.872	117	297451	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.584	65	126113	32.871	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 109.567%	
60) 4-Bromofluorobenzene	12.854	95	149890	26.932	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 89.767%	
63) Toluene-d8	10.572	98	326697	31.026	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 103.433%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.137	85	30190	6.319	ug/l	96
3) Chloromethane	2.372	50	57454	11.644	ug/l	90
4) Vinyl Chloride	2.525	62	67264	14.323	ug/l	96
5) Bromomethane	2.972	94	53013	17.050	ug/l	94
6) Chloroethane	3.131	64	72213	23.425	ug/l	96
7) Trichlorofluoromethane	3.513	101	88799	10.632	ug/l	98
8) Diethyl Ether	3.972	74	29593	9.642	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.378	101	45990	9.899	ug/l	94
10) 1,1-Dichloroethene	4.354	96	42544	9.475	ug/l	90
11) Methyl Iodide	4.601	142	38034	7.298	ug/l	92
12) Methyl Acetate	5.043	43	96246	12.330	ug/l	93
13) Acrolein	4.196	56	54348	47.766	ug/l	99
14) Acrylonitrile	5.737	53	143104	56.555	ug/l	99
15) Acetone	4.437	58	38263	56.187	ug/l	94
16) Carbon Disulfide	4.725	76	119086	9.584	ug/l	100
17) Allyl chloride	5.031	41	70590	10.234	ug/l	94
18) Methylene Chloride	5.290	84	54461	10.221	ug/l	97
19) trans-1,2-Dichloroethene	5.795	96	46990	9.933	ug/l	95
20) Diisopropyl ether	6.678	45	173989	11.120	ug/l	95
21) 1,1-Dichloroethane	6.584	63	95829	10.401	ug/l	94
22) cis-1,2-Dichloroethene	7.495	96	53177	9.754	ug/l	97
23) tert-Butyl Alcohol	5.531	59	44397	58.872	ug/l	# 100
24) Methyl tert-Butyl Ether	5.801	73	147534m	9.981	ug/l	
25) Chloroform	7.978	83	94195	9.978	ug/l	96
26) Cyclohexane	8.272	56	74108	8.978	ug/l	# 93
29) 1,1-Dichloropropene	8.378	75	67473	10.253	ug/l	97
30) 2-Butanone	7.495	43	201031	63.389	ug/l	99
31) 2,2-Dichloropropane	7.501	77	61242	9.544	ug/l	# 90
32) 1,1,1-Trichloroethane	8.172	97	80877	10.489	ug/l	100
33) Carbon Tetrachloride	8.366	117	66690	9.840	ug/l	87
34) Benzene	8.613	78	209733	10.385	ug/l	# 91
35) Methacrylonitrile	7.784	41	42831	12.061	ug/l	96
36) 1,2-Dichloroethane	8.678	62	78154	11.281	ug/l	98
37) Trichloroethene	9.354	130	45979	9.414	ug/l	94
38) Methylcyclohexane	9.607	83	71935	8.951	ug/l	92
39) 1,2-Dichloropropane	9.625	63	55769	10.685	ug/l	94
40) Dibromomethane	9.719	93	38000	11.405	ug/l	99
41) Bromodichloromethane	9.889	83	70187	10.309	ug/l	98
42) Vinyl Acetate	6.619	43	551450	56.850	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	84583	13.299	ug/l	99
44) Isopropyl Acetate	8.695	43	123072	11.967	ug/l	98
45) 1,4-Dioxane	9.695	88	21235	243.979	ug/l	97
46) Methyl methacrylate	9.683	41	56888	11.427	ug/l	98
47) n-amyl Acetate	12.495	43	92293	11.091	ug/l	95
48) t-1,3-Dichloropropene	10.842	75	65938	9.708	ug/l	98
49) cis-1,3-Dichloropropene	10.319	75	74772	9.746	ug/l	97
50) 1,1,2-Trichloroethane	11.019	97	49377	10.145	ug/l	94
51) Ethyl methacrylate	10.877	69	68479	9.620	ug/l	93
52) 1,3-Dichloropropane	11.166	76	88590	10.573	ug/l	99
53) Dibromochloromethane	11.360	129	47572	9.650	ug/l	98
54) 1,2-Dibromoethane	11.472	107	47969	10.245	ug/l	97
55) 2-Chloroethyl vinyl ether	10.166	63	152576	58.782	ug/l	98
56) Bromoform	12.583	173	31824	9.684	ug/l #	95
58) 4-Methyl-2-Pentanone	10.448	43	406381	62.869	ug/l	99
59) 2-Hexanone	11.201	43	292869	63.458	ug/l	98
61) Tetrachloroethene	11.107	164	37146	8.104	ug/l #	79
62) Toluene	10.630	91	216586	10.342	ug/l	99
64) Chlorobenzene	11.895	112	127059	10.334	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.960	131	46801	10.108	ug/l	98
66) Ethyl Benzene	11.966	91	217221	9.611	ug/l	97
67) m/p-Xylenes	12.072	106	170366	19.908	ug/l	98
68) o-Xylene	12.401	106	80436	9.621	ug/l	96
69) Styrene	12.413	104	129395	9.596	ug/l	99
70) Isopropylbenzene	12.701	105	206753	9.520	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.942	83	76341	11.308	ug/l	100
72) 1,2,3-Trichloropropane	12.995	75	67266m	10.833	ug/l	
73) Bromobenzene	12.983	156	47311	9.610	ug/l	92
74) n-propylbenzene	13.042	91	240186	9.430	ug/l	98
75) 2-Chlorotoluene	13.130	91	148091	9.395	ug/l	99
76) 1,3,5-Trimethylbenzene	13.177	105	174423	9.311	ug/l	93
77) t-1,4-Dichloro-2-butene	12.742	75	18935	10.222	ug/l	88
78) 4-Chlorotoluene	13.224	91	138936	9.161	ug/l	95
79) tert-butylbenzene	13.442	119	152793	9.738	ug/l	99
80) 1,2,4-Trimethylbenzene	13.489	105	165557	9.031	ug/l	98
81) sec-Butylbenzene	13.618	105	208856	9.359	ug/l	98
82) p-Isopropyltoluene	13.736	119	156053	8.688	ug/l	97
83) 1,3-Dichlorobenzene	13.736	146	86979	9.579	ug/l	98
84) 1,4-Dichlorobenzene	13.813	146	76632	8.728	ug/l	93
85) n-Butylbenzene	14.060	91	117194	7.743	ug/l	98
86) Hexachloroethane	14.342	117	32247	9.862	ug/l	92
87) 1,2-Dichlorobenzene	14.107	146	85923	9.515	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.724	75	13098	10.055	ug/l	94
89) 1,2,4-Trichlorobenzene	15.395	180	29946	6.500	ug/l	98
90) Hexachlorobutadiene	15.507	225	21114	8.502	ug/l	98
91) Naphthalene	15.642	128	91082	6.225	ug/l	98
92) 1,2,3-Trichlorobenzene	15.842	180	31141	6.740	ug/l	98

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

