

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051424\
 Data File : VN082116.D
 Acq On : 14 May 2024 15:24
 Operator : JC\MD
 Sample : VN0514WBS02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0514WBS02

Quant Time: May 15 02:47:25 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 14 11:29:16 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 05/15/2024
 Supervised By : Mahesh Dadoda 05/15/2024

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

Internal Standards						
1) Bromochloromethane	7.812	128	59611	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	326981	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	296360	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	162171	32.493	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 108.300%			
60) 4-Bromofluorobenzene	12.853	95	139103	28.204	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 94.000%			
63) Toluene-d8	10.565	98	426892	30.331	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.100%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	45115	13.333	ug/l	93
3) Chloromethane	2.360	50	53220	13.562	ug/l	98
4) Vinyl Chloride	2.518	62	60186	16.235	ug/l	91
5) Bromomethane	2.965	94	36547	18.893	ug/l	98
6) Chloroethane	3.124	64	46196	22.006	ug/l	89
7) Trichlorofluoromethane	3.501	101	78814	14.529	ug/l	92
8) Diethyl Ether	3.965	74	31282	11.913	ug/l	76
9) 1,1,2-Trichlorotrifluo...	4.371	101	48985m	13.158	ug/l	
10) 1,1-Dichloroethene	4.348	96	42227	11.592	ug/l	86
11) Methyl Iodide	4.595	142	43438	13.055	ug/l	93
12) Methyl Acetate	5.024	43	79676	17.110	ug/l #	78
13) Acrolein	4.177	56	81898	84.450	ug/l	100
14) Acrylonitrile	5.718	53	144340	69.423	ug/l	98
15) Acetone	4.424	58	35375	75.443	ug/l #	69
16) Carbon Disulfide	4.718	76	100325	9.953	ug/l	97
17) Allyl chloride	5.024	41	86592	13.281	ug/l	84
18) Methylene Chloride	5.277	84	55926	13.510	ug/l #	73
19) trans-1,2-Dichloroethene	5.789	96	45668	12.045	ug/l	97
20) Diisopropyl ether	6.677	45	212027	15.003	ug/l #	92
21) 1,1-Dichloroethane	6.565	63	107603	14.379	ug/l	97
22) cis-1,2-Dichloroethene	7.483	96	61727	13.330	ug/l	88
23) tert-Butyl Alcohol	5.512	59	55369	64.639	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	181614	13.845	ug/l #	88
25) Chloroform	7.965	83	108031	15.006	ug/l	94
26) Cyclohexane	8.259	56	80788	12.559	ug/l #	85
29) 1,1-Dichloropropene	8.377	75	70035	14.387	ug/l	96
30) 2-Butanone	7.483	43	203633	81.152	ug/l #	86
31) 2,2-Dichloropropane	7.489	77	95272	19.098	ug/l	93
32) 1,1,1-Trichloroethane	8.171	97	91043	16.262	ug/l	94
33) Carbon Tetrachloride	8.365	117	73190	16.108	ug/l	90
34) Benzene	8.606	78	226252	14.569	ug/l #	94
35) Methacrylonitrile	7.783	41	49023	15.442	ug/l	91
36) 1,2-Dichloroethane	8.671	62	85950	16.487	ug/l #	94
37) Trichloroethene	9.353	130	49108	12.910	ug/l	91
38) Methylcyclohexane	9.600	83	77635	13.202	ug/l	92
39) 1,2-Dichloropropane	9.624	63	58780	14.751	ug/l	100
40) Dibromomethane	9.712	93	38483	15.033	ug/l	95
41) Bromodichloromethane	9.888	83	84356	15.417	ug/l	94
42) Vinyl Acetate	6.606	43	810167	75.855	ug/l #	92

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	78176	14.240	ug/l	96
44) Isopropyl Acetate	8.688	43	159197	16.392	ug/l #	84
45) 1,4-Dioxane	9.694	88	20277	260.313	ug/l #	79
46) Methyl methacrylate	9.683	41	69371	15.633	ug/l	73
47) n-amyl Acetate	12.494	43	128633m	14.687	ug/l	
48) t-1,3-Dichloropropene	10.835	75	87049	14.671	ug/l	95
49) cis-1,3-Dichloropropene	10.312	75	92241	14.704	ug/l #	77
50) 1,1,2-Trichloroethane	11.018	97	52528	15.125	ug/l	97
51) Ethyl methacrylate	10.877	69	88530	13.506	ug/l #	67
52) 1,3-Dichloropropane	11.165	76	98703	15.469	ug/l	99
53) Dibromochloromethane	11.359	129	58495	15.480	ug/l	98
54) 1,2-Dibromoethane	11.471	107	51882	14.979	ug/l	98
55) 2-Chloroethyl vinyl ether	10.159	63	331456	101.123	ug/l	95
56) Bromoform	12.576	173	35302	15.350	ug/l	99
58) 4-Methyl-2-Pentanone	10.447	43	453146	78.751	ug/l #	82
59) 2-Hexanone	11.194	43	341798m	80.111	ug/l	
61) Tetrachloroethene	11.106	164	48474	14.741	ug/l	92
62) Toluene	10.630	91	241914	14.508	ug/l	99
64) Chlorobenzene	11.894	112	145778	14.293	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.965	131	51100	15.308	ug/l	97
66) Ethyl Benzene	11.965	91	260153	14.233	ug/l	100
67) m/p-Xylenes	12.071	106	183505	27.079	ug/l	95
68) o-Xylene	12.394	106	93187	13.899	ug/l	100
69) Styrene	12.412	104	156358	13.892	ug/l	99
70) Isopropylbenzene	12.694	105	246224	14.460	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.941	83	75436	15.394	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	68612m	17.111	ug/l	
73) Bromobenzene	12.982	156	56283	15.441	ug/l	95
74) n-propylbenzene	13.035	91	299114	14.878	ug/l	98
75) 2-Chlorotoluene	13.129	91	174248	14.020	ug/l	99
76) 1,3,5-Trimethylbenzene	13.171	105	196082	14.226	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	27383	13.422	ug/l	86
78) 4-Chlorotoluene	13.224	91	171421	14.079	ug/l	99
79) tert-butylbenzene	13.441	119	172612	14.545	ug/l	100
80) 1,2,4-Trimethylbenzene	13.482	105	202791	14.647	ug/l	98
81) sec-Butylbenzene	13.618	105	244672	14.708	ug/l	99
82) p-Isopropyltoluene	13.729	119	200142	15.215	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	104800	15.967	ug/l	96
84) 1,4-Dichlorobenzene	13.812	146	100373	15.215	ug/l	97
85) n-Butylbenzene	14.059	91	178352	14.843	ug/l	98
86) Hexachloroethane	14.335	117	36837	14.045	ug/l	90
87) 1,2-Dichlorobenzene	14.106	146	102512	15.681	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.723	75	13762	12.515	ug/l	92
89) 1,2,4-Trichlorobenzene	15.847	180	55697	15.473	ug/l	99
90) Hexachlorobutadiene	15.500	225	23755	17.819	ug/l	97
91) Naphthalene	15.641	128	172666	12.619	ug/l	98
92) 1,2,3-Trichlorobenzene	15.847	180	55697	15.473	ug/l	99

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

