

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102822\
 Data File : VN075074.D
 Acq On : 28 Oct 2022 20:36
 Operator : JC\MD
 Sample : VN1028WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1028WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/31/2022
 Supervised By : Mahesh Dadoda 10/31/2022

Quant Time: Oct 31 02:56:10 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N102522W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 27 10:19:47 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	13870	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	70392	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	64347	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	42243	33.309	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 111.033%#			
60) 4-Bromofluorobenzene	12.853	95	36038	28.504	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 95.000%			
63) Toluene-d8	10.571	98	109260	30.359	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.136	85	8019	11.876	ug/l	96
3) Chloromethane	2.371	50	17911	20.166	ug/l	95
4) Vinyl Chloride	2.524	62	21813	16.242	ug/l	94
5) Bromomethane	2.924	94	23505	22.137	ug/l	92
6) Chloroethane	3.112	64	18809	18.157	ug/l	99
7) Trichlorofluoromethane	3.495	101	21445	14.838	ug/l	95
8) Diethyl Ether	3.977	74	13001	21.878	ug/l	90
9) 1,1,2-Trichlorotrifluo...	4.383	101	12059	14.234	ug/l #	59
10) 1,1-Dichloroethene	4.348	96	13296	16.732	ug/l	93
11) Methyl Iodide	4.595	142	25316	20.421	ug/l	93
12) Methyl Acetate	5.042	43	31941	23.728	ug/l	99
13) Acrolein	4.189	56	19568	118.684	ug/l	98
14) Acrylonitrile	5.736	53	62601	112.563	ug/l	99
15) Acetone	4.448	58	17649	113.587	ug/l	77
16) Carbon Disulfide	4.712	76	26799	15.319	ug/l #	89
17) Allyl chloride	5.036	41	21046	19.766	ug/l	96
18) Methylene Chloride	5.283	84	22718	22.820	ug/l #	88
19) trans-1,2-Dichloroethene	5.789	96	16156	18.288	ug/l	87
20) Diisopropyl ether	6.689	45	59154	21.405	ug/l	91
21) 1,1-Dichloroethane	6.577	63	35174	20.493	ug/l	96
22) cis-1,2-Dichloroethene	7.494	96	20845	18.674	ug/l	97
23) tert-Butyl Alcohol	5.536	59	29033m	112.773	ug/l	
24) Methyl tert-Butyl Ether	5.806	73	72235	22.226	ug/l	92
25) Chloroform	7.971	83	38031	20.056	ug/l	95
26) Cyclohexane	8.259	56	17370	12.598	ug/l #	55
29) 1,1-Dichloropropene	8.371	75	18322	15.174	ug/l	98
30) 2-Butanone	7.494	43	85063	122.211	ug/l	97
31) 2,2-Dichloropropane	7.500	77	22906	15.531	ug/l	98
32) 1,1,1-Trichloroethane	8.177	97	28469	18.205	ug/l	98
33) Carbon Tetrachloride	8.365	117	21438	15.570	ug/l	98
34) Benzene	8.612	78	75737	20.518	ug/l	98
35) Methacrylonitrile	7.789	41	15970	23.939	ug/l	93
36) 1,2-Dichloroethane	8.677	62	32789	23.973	ug/l	96
37) Trichloroethene	9.353	130	16756	18.267	ug/l	95
38) Methylcyclohexane	9.600	83	18691	12.485	ug/l	95
39) 1,2-Dichloropropane	9.624	63	21554	23.195	ug/l	97
40) Dibromomethane	9.712	93	16156	22.916	ug/l	97
41) Bromodichloromethane	9.888	83	30915	22.523	ug/l	95
42) Vinyl Acetate	6.612	43	260071m	132.652	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	31818	23.131	ug/l	98
44) Isopropyl Acetate	8.694	43	53168	24.096	ug/l	97
45) 1,4-Dioxane	9.700	88	12394	456.361	ug/l	98
46) Methyl methacrylate	9.688	41	23171	23.409	ug/l	94
47) n-amyl Acetate	12.494	43	43441	22.918	ug/l	97
48) t-1,3-Dichloropropene	10.841	75	30811	20.548	ug/l	99
49) cis-1,3-Dichloropropene	10.312	75	31562	20.026	ug/l #	87
50) 1,1,2-Trichloroethane	11.018	97	23533	22.784	ug/l	97
51) Ethyl methacrylate	10.877	69	35121	21.824	ug/l	93
52) 1,3-Dichloropropane	11.165	76	38952	22.549	ug/l	98
53) Dibromochloromethane	11.359	129	23321	20.876	ug/l	99
54) 1,2-Dibromoethane	11.471	107	22396	20.959	ug/l	93
55) 2-Chloroethyl vinyl ether	10.165	63	82765	125.884	ug/l	99
56) Bromoform	12.582	173	15404	18.781	ug/l #	98
58) 4-Methyl-2-Pentanone	10.447	43	173060	124.687	ug/l	95
59) 2-Hexanone	11.200	43	134260	126.097	ug/l	94
61) Tetrachloroethene	11.106	164	12169	17.005	ug/l	89
62) Toluene	10.635	91	80683	19.367	ug/l	97
64) Chlorobenzene	11.894	112	50614	19.605	ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.959	131	21373	21.671	ug/l	97
66) Ethyl Benzene	11.965	91	80385	17.120	ug/l	96
67) m/p-Xylenes	12.071	106	63288	33.609	ug/l	96
68) o-Xylene	12.400	106	34813	18.392	ug/l	93
69) Styrene	12.412	104	55859	18.046	ug/l	97
70) Isopropylbenzene	12.694	105	77041	15.622	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.941	83	38290	23.835	ug/l	98
72) 1,2,3-Trichloropropane	12.994	75	33030m	22.642	ug/l	
73) Bromobenzene	12.982	156	20756	18.908	ug/l	89
74) n-propylbenzene	13.035	91	84689	15.335	ug/l	99
75) 2-Chlorotoluene	13.123	91	58172	17.308	ug/l	98
76) 1,3,5-Trimethylbenzene	13.176	105	67342	16.119	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	9771	19.176	ug/l	94
78) 4-Chlorotoluene	13.223	91	54523	16.702	ug/l	97
79) tert-butylbenzene	13.441	119	56676	15.194	ug/l	97
80) 1,2,4-Trimethylbenzene	13.482	105	69433	16.338	ug/l #	81
81) sec-Butylbenzene	13.618	105	73674	14.049	ug/l	98
82) p-Isopropyltoluene	13.729	119	59323	13.410	ug/l	100
83) 1,3-Dichlorobenzene	13.735	146	35361	16.289	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	33983	16.226	ug/l	98
85) n-Butylbenzene	14.059	91	46474	13.097	ug/l	97
86) Hexachloroethane	14.335	117	11607	14.158	ug/l	96
87) 1,2-Dichlorobenzene	14.106	146	38249	17.813	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	7456	22.081	ug/l	98
89) 1,2,4-Trichlorobenzene	15.394	180	15113	15.935	ug/l	98
90) Hexachlorobutadiene	15.500	225	5966	13.678	ug/l	94
91) Naphthalene	15.641	128	67961	18.081	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	16874	17.576	ug/l	99

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

