

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051622\
 Data File : VN072505.D
 Acq On : 16 May 2022 16:56
 Operator : JC\MD
 Sample : VN0516WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0516WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/17/2022
 Supervised By : Mahesh Dadoda 05/17/2022

Quant Time: May 17 07:18:24 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N051622W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 17 06:34:50 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.651	128	26281	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	133427	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	127641	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.433	65	90339	30.548	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 101.833%	
60) 4-Bromofluorobenzene	12.727	95	73949	29.672	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 98.900%	
63) Toluene-d8	10.439	98	209968	30.135	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 100.433%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.069	85	38187	17.492	ug/l	99
3) Chloromethane	2.298	50	37299	18.917	ug/l	88
4) Vinyl Chloride	2.440	62	29456	17.697	ug/l	95
5) Bromomethane	2.822	94	24773	18.298	ug/l	97
6) Chloroethane	2.998	64	20977	19.299	ug/l	91
7) Trichlorofluoromethane	3.363	101	70387	17.902	ug/l	99
8) Diethyl Ether	3.828	74	22857	19.325	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.204	101	33488	18.076	ug/l #	60
10) 1,1-Dichloroethene	4.175	96	29675	17.764	ug/l	90
11) Methyl Iodide	4.416	142	43455	17.274	ug/l	99
12) Methyl Acetate	4.857	43	58494	21.645	ug/l	94
13) Acrolein	4.040	56	40643	95.716	ug/l	99
14) Acrylonitrile	5.551	53	118633	104.051	ug/l	99
15) Acetone	4.292	58	33238	111.174	ug/l	88
16) Carbon Disulfide	4.522	76	76191	17.583	ug/l #	94
17) Allyl chloride	4.834	41	56691	18.801	ug/l	91
18) Methylene Chloride	5.087	84	42061	21.272	ug/l	97
19) trans-1,2-Dichloroethene	5.592	96	34483	18.794	ug/l	89
20) Diisopropyl ether	6.498	45	121369	19.362	ug/l	91
21) 1,1-Dichloroethane	6.381	63	69134	18.443	ug/l	99
22) cis-1,2-Dichloroethene	7.322	96	41394	19.216	ug/l	94
23) tert-Butyl Alcohol	5.369	59	57755	115.485	ug/l #	100
24) Methyl tert-Butyl Ether	5.616	73	138099m	20.152	ug/l	
25) Chloroform	7.816	83	79203	19.590	ug/l	98
26) Cyclohexane	8.086	56	55759	18.329	ug/l #	99
29) 1,1-Dichloropropene	8.222	75	51201	19.268	ug/l	94
30) 2-Butanone	7.328	43	169015	109.894	ug/l	97
31) 2,2-Dichloropropane	7.322	77	63177	19.163	ug/l	95
32) 1,1,1-Trichloroethane	8.016	97	72194	19.047	ug/l	98
33) Carbon Tetrachloride	8.204	117	66379	19.707	ug/l	95
34) Benzene	8.457	78	154638	20.480	ug/l	96
35) Methacrylonitrile	7.633	41	34899	21.462	ug/l	92
36) 1,2-Dichloroethane	8.522	62	72379	20.583	ug/l	100
37) Trichloroethene	9.210	130	39868	19.462	ug/l	100
38) Methylcyclohexane	9.457	83	55428	18.042	ug/l	89
39) 1,2-Dichloropropane	9.486	63	37838	19.894	ug/l	93
40) Dibromomethane	9.574	93	30190	20.562	ug/l	90
41) Bromodichloromethane	9.757	83	63487	20.410	ug/l	93
42) Vinyl Acetate	6.428	43	558470m	107.885	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.410	43	65193	21.706	ug/l	98
44) Isopropyl Acetate	8.557	43	101798	21.173	ug/l	97
45) 1,4-Dioxane	9.569	88	20982	458.196	ug/l #	86
46) Methyl methacrylate	9.557	41	47169	20.734	ug/l	87
47) n-amyl Acetate	12.386	43	64691	20.100	ug/l	97
48) t-1,3-Dichloropropene	10.716	75	65182	19.849	ug/l	95
49) cis-1,3-Dichloropropene	10.180	75	66999	20.243	ug/l	94
50) 1,1,2-Trichloroethane	10.892	97	42647	21.059	ug/l	98
51) Ethyl methacrylate	10.757	69	65119	20.621	ug/l	91
52) 1,3-Dichloropropane	11.039	76	72211	20.638	ug/l	99
53) Dibromochloromethane	11.233	129	49515	20.250	ug/l	98
54) 1,2-Dibromoethane	11.345	107	46443	21.559	ug/l	99
55) 2-Chloroethyl vinyl ether	10.039	63	78228	97.631	ug/l	99
56) Bromoform	12.457	173	37171	20.157	ug/l #	99
58) 4-Methyl-2-Pentanone	10.327	43	338633	112.590	ug/l	100
59) 2-Hexanone	11.080	43	246238	111.444	ug/l	99
61) Tetrachloroethene	10.974	164	38514	20.148	ug/l #	83
62) Toluene	10.498	91	169702	19.680	ug/l	96
64) Chlorobenzene	11.768	112	105622	19.636	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.833	131	44969	20.219	ug/l	97
66) Ethyl Benzene	11.839	91	186193	19.197	ug/l	99
67) m/p-Xylenes	11.951	106	143775	39.098	ug/l	95
68) o-Xylene	12.274	106	74687	20.547	ug/l	98
69) Styrene	12.292	104	113040	19.526	ug/l	94
70) Isopropylbenzene	12.574	105	188852	19.579	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.821	83	64529	21.908	ug/l	98
72) 1,2,3-Trichloropropane	12.874	75	53730m	19.449	ug/l	
73) Bromobenzene	12.857	156	45307	19.518	ug/l	97
74) n-propylbenzene	12.915	91	197776	18.731	ug/l	99
75) 2-Chlorotoluene	13.004	91	130944	19.194	ug/l	98
76) 1,3,5-Trimethylbenzene	13.057	105	162579	19.707	ug/l	99
77) t-1,4-Dichloro-2-butene	12.621	75	17677	19.366	ug/l	85
78) 4-Chlorotoluene	13.104	91	123894	19.375	ug/l	94
79) tert-butylbenzene	13.321	119	138281	19.078	ug/l	99
80) 1,2,4-Trimethylbenzene	13.362	105	156943m	19.742	ug/l	
81) sec-Butylbenzene	13.498	105	177600	18.481	ug/l	97
82) p-Isopropyltoluene	13.610	119	147095	18.495	ug/l	99
83) 1,3-Dichlorobenzene	13.610	146	76403	19.280	ug/l	99
84) 1,4-Dichlorobenzene	13.692	146	73650	19.100	ug/l	99
85) n-Butylbenzene	13.939	91	101233	17.176	ug/l	97
86) Hexachloroethane	14.204	117	27392	18.704	ug/l	86
87) 1,2-Dichlorobenzene	13.986	146	75413	19.466	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.598	75	14098	20.333	ug/l	99
89) 1,2,4-Trichlorobenzene	15.262	180	31530	17.979	ug/l	98
90) Hexachlorobutadiene	15.368	225	19510	18.001	ug/l	92
91) Naphthalene	15.504	128	94852	20.477	ug/l	98
92) 1,2,3-Trichlorobenzene	15.698	180	33771	18.918	ug/l	98

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

