

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN053122\
 Data File : VN072649.D
 Acq On : 31 May 2022 12:55
 Operator : JC\MD
 Sample : VN0531WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0531WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/01/2022
 Supervised By : Mahesh Dadoda 06/01/2022

Quant Time: Jun 01 02:39:30 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N052622W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 27 05:07:24 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.657	128	26914	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	153736	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	145056	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.433	65	75680	29.386	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	97.967%
60) 4-Bromofluorobenzene	12.727	95	77525	30.432	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	101.433%
63) Toluene-d8	10.439	98	243551	29.529	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.433%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.069	85	36257	19.715	ug/l	100
3) Chloromethane	2.299	50	45261	18.353	ug/l	97
4) Vinyl Chloride	2.440	62	38003	18.431	ug/l	97
5) Bromomethane	2.840	94	17649	17.603	ug/l	94
6) Chloroethane	3.010	64	22430	17.388	ug/l	96
7) Trichlorofluoromethane	3.369	101	54476	18.437	ug/l	97
8) Diethyl Ether	3.822	74	25709	20.738	ug/l	88
9) 1,1,2-Trichlorotrifluo...	4.210	101	35883	21.740	ug/l	82
10) 1,1-Dichloroethene	4.175	96	32627	20.131	ug/l	100
11) Methyl Iodide	4.416	142	29369	18.926	ug/l	96
12) Methyl Acetate	4.851	43	67864	21.336	ug/l	95
13) Acrolein	4.040	56	36052	98.970	ug/l	99
14) Acrylonitrile	5.545	53	144233	105.269	ug/l	98
15) Acetone	4.281	58	41948	118.931	ug/l	92
16) Carbon Disulfide	4.528	76	95843	21.560	ug/l	98
17) Allyl chloride	4.840	41	72048	21.396	ug/l	79
18) Methylene Chloride	5.087	84	43327	20.334	ug/l	88
19) trans-1,2-Dichloroethene	5.592	96	37466	21.135	ug/l	91
20) Diisopropyl ether	6.492	45	150962	19.553	ug/l	90
21) 1,1-Dichloroethane	6.375	63	75478	19.206	ug/l	100
22) cis-1,2-Dichloroethene	7.322	96	44518	19.772	ug/l	97
23) tert-Butyl Alcohol	5.357	59	45890	99.784	ug/l #	100
24) Methyl tert-Butyl Ether	5.604	73	124874	20.055	ug/l #	75
25) Chloroform	7.816	83	77363	19.376	ug/l	100
26) Cyclohexane	8.092	56	68971	18.608	ug/l #	91
29) 1,1-Dichloropropene	8.216	75	54269	18.666	ug/l	98
30) 2-Butanone	7.328	43	207512	105.992	ug/l	94
31) 2,2-Dichloropropane	7.316	77	61591	20.916	ug/l	98
32) 1,1,1-Trichloroethane	8.010	97	63909	19.815	ug/l	96
33) Carbon Tetrachloride	8.204	117	56777	19.826	ug/l	91
34) Benzene	8.457	78	174605	19.104	ug/l	99
35) Methacrylonitrile	7.628	41	43332	21.699	ug/l	89
36) 1,2-Dichloroethane	8.528	62	60455	20.357	ug/l	97
37) Trichloroethene	9.216	130	40625	18.676	ug/l	100
38) Methylcyclohexane	9.457	83	67283	18.737	ug/l	91
39) 1,2-Dichloropropane	9.486	63	47713	19.577	ug/l	99
40) Dibromomethane	9.575	93	29983	19.401	ug/l	93
41) Bromodichloromethane	9.757	83	62200	20.078	ug/l	96
42) Vinyl Acetate	6.428	43	645405	101.006	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.404	43	77677	20.690	ug/l	100
44) Isopropyl Acetate	8.557	43	115489	19.743	ug/l	100
45) 1,4-Dioxane	9.569	88	22311	454.900	ug/l	94
46) Methyl methacrylate	9.557	41	56588	20.532	ug/l	82
47) n-amyl Acetate	12.386	43	84504	19.827	ug/l	100
48) t-1,3-Dichloropropene	10.716	75	65937	19.705	ug/l	97
49) cis-1,3-Dichloropropene	10.186	75	71433	19.374	ug/l	94
50) 1,1,2-Trichloroethane	10.892	97	46333	20.393	ug/l	97
51) Ethyl methacrylate	10.757	69	73226	19.115	ug/l	87
52) 1,3-Dichloropropane	11.039	76	80384	20.064	ug/l	99
53) Dibromochloromethane	11.233	129	48088	20.588	ug/l	100
54) 1,2-Dibromoethane	11.339	107	47459	20.343	ug/l	100
55) 2-Chloroethyl vinyl ether	10.039	63	154202	92.024	ug/l	97
56) Bromoform	12.451	173	36271	21.510	ug/l #	99
58) 4-Methyl-2-Pentanone	10.327	43	410762	98.036	ug/l	97
59) 2-Hexanone	11.080	43	305993	102.402	ug/l	97
61) Tetrachloroethene	10.974	164	36696	19.115	ug/l	98
62) Toluene	10.504	91	193397	18.992	ug/l	98
64) Chlorobenzene	11.769	112	113521	19.185	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.839	131	43310	18.587	ug/l	96
66) Ethyl Benzene	11.839	91	210033	18.697	ug/l	97
67) m/p-Xylenes	11.945	106	158022	38.704	ug/l	98
68) o-Xylene	12.274	106	78146	19.238	ug/l	97
69) Styrene	12.292	104	122260	18.997	ug/l	99
70) Isopropylbenzene	12.574	105	195559	18.843	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.821	83	70328	19.738	ug/l	98
72) 1,2,3-Trichloropropane	12.874	75	53964m	17.949	ug/l	
73) Bromobenzene	12.857	156	44481	19.511	ug/l	90
74) n-propylbenzene	12.916	91	226647	19.314	ug/l	99
75) 2-Chlorotoluene	13.004	91	135691	19.064	ug/l	96
76) 1,3,5-Trimethylbenzene	13.057	105	160646	19.614	ug/l	96
77) t-1,4-Dichloro-2-butene	12.621	75	23088	19.651	ug/l	94
78) 4-Chlorotoluene	13.104	91	125511	19.368	ug/l	96
79) tert-butylbenzene	13.321	119	139708	19.493	ug/l	96
80) 1,2,4-Trimethylbenzene	13.363	105	157200	19.887	ug/l #	81
81) sec-Butylbenzene	13.498	105	198039	19.100	ug/l	100
82) p-Isopropyltoluene	13.610	119	154917	19.273	ug/l	97
83) 1,3-Dichlorobenzene	13.610	146	74834	18.912	ug/l	99
84) 1,4-Dichlorobenzene	13.692	146	73064	19.007	ug/l	98
85) n-Butylbenzene	13.939	91	121461	18.388	ug/l	97
86) Hexachloroethane	14.204	117	33203	20.740	ug/l	90
87) 1,2-Dichlorobenzene	13.980	146	75406	19.294	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.598	75	14668	21.190	ug/l	96
89) 1,2,4-Trichlorobenzene	15.257	180	37249	19.318	ug/l	95
90) Hexachlorobutadiene	15.362	225	19963	20.643	ug/l	97
91) Naphthalene	15.504	128	126739	18.730	ug/l	98
92) 1,2,3-Trichlorobenzene	15.698	180	39490	20.060	ug/l	95

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

