

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060622\
 Data File : VN072663.D
 Acq On : 06 Jun 2022 14:36
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN060622

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/07/2022
 Supervised By : Mahesh Dadoda 06/07/2022

Quant Time: Jun 07 06:24:57 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N060622W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jun 06 14:10:15 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.651	128	42525	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	247940	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	222185	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.428	65	143962	29.684	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.933%		
60) 4-Bromofluorobenzene	12.727	95	137566	30.103	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.333%		
63) Toluene-d8	10.439	98	373456	30.342	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.133%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.069	85	61593	19.335	ug/l	93
3) Chloromethane	2.293	50	66430	19.177	ug/l	95
4) Vinyl Chloride	2.440	62	59445	19.031	ug/l	96
5) Bromomethane	2.852	94	31874	19.733	ug/l	93
6) Chloroethane	3.016	64	39014	18.733	ug/l	94
7) Trichlorofluoromethane	3.369	101	111089	19.673	ug/l	96
8) Diethyl Ether	3.816	74	42985	19.634	ug/l	90
9) 1,1,2-Trichlorotrifluo...	4.204	101	62055	20.861	ug/l	76
10) 1,1-Dichloroethene	4.181	96	55033	19.587	ug/l	85
11) Methyl Iodide	4.422	142	50118	17.817	ug/l	98
12) Methyl Acetate	4.846	43	109360	18.866	ug/l	96
13) Acrolein	4.040	56	43778	86.275	ug/l	99
14) Acrylonitrile	5.545	53	226976	96.058	ug/l	97
15) Acetone	4.275	58	60702	94.882	ug/l	94
16) Carbon Disulfide	4.528	76	130756	18.461	ug/l	99
17) Allyl chloride	4.834	41	118859	19.583	ug/l	90
18) Methylene Chloride	5.093	84	68629	19.453	ug/l #	81
19) trans-1,2-Dichloroethene	5.593	96	58010	19.079	ug/l	88
20) Diisopropyl ether	6.487	45	241493	20.090	ug/l	97
21) 1,1-Dichloroethane	6.387	63	131314	19.663	ug/l	99
22) cis-1,2-Dichloroethene	7.316	96	74890	19.664	ug/l	91
23) tert-Butyl Alcohol	5.357	59	106257	96.633	ug/l #	100
24) Methyl tert-Butyl Ether	5.610	73	250365	20.037	ug/l	97
25) Chloroform	7.810	83	137485	20.041	ug/l	100
26) Cyclohexane	8.092	56	112485	20.202	ug/l #	88
29) 1,1-Dichloropropene	8.216	75	94257	19.943	ug/l	95
30) 2-Butanone	7.328	43	335254	98.014	ug/l	94
31) 2,2-Dichloropropane	7.322	77	125756	19.657	ug/l	96
32) 1,1,1-Trichloroethane	8.010	97	123710	20.004	ug/l	97
33) Carbon Tetrachloride	8.198	117	104395	19.575	ug/l	100
34) Benzene	8.457	78	277200	19.825	ug/l	98
35) Methacrylonitrile	7.628	41	62258	18.563	ug/l	95
36) 1,2-Dichloroethane	8.528	62	117055	19.815	ug/l	99
37) Trichloroethene	9.210	130	68080	20.197	ug/l	100
38) Methylcyclohexane	9.457	83	112152	19.877	ug/l	91
39) 1,2-Dichloropropane	9.486	63	77298	20.122	ug/l	98
40) Dibromomethane	9.575	93	52400	19.871	ug/l	95
41) Bromodichloromethane	9.757	83	112065	19.867	ug/l	94
42) Vinyl Acetate	6.428	43	1114627	100.097	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.404	43	127308	19.426	ug/l	98
44) Isopropyl Acetate	8.557	43	211418	19.449	ug/l	100
45) 1,4-Dioxane	9.557	88	35231	394.381	ug/l	90
46) Methyl methacrylate	9.551	41	91678	18.861	ug/l	82
47) n-amyl Acetate	12.386	43	159418	19.155	ug/l	97
48) t-1,3-Dichloropropene	10.716	75	124179	19.287	ug/l	95
49) cis-1,3-Dichloropropene	10.186	75	129440	19.798	ug/l	95
50) 1,1,2-Trichloroethane	10.898	97	72600	19.473	ug/l	96
51) Ethyl methacrylate	10.757	69	127671	18.905	ug/l	94
52) 1,3-Dichloropropane	11.039	76	132357	19.949	ug/l	99
53) Dibromochloromethane	11.233	129	78853	19.170	ug/l	96
54) 1,2-Dibromoethane	11.339	107	75521	19.265	ug/l	99
55) 2-Chloroethyl vinyl ether	10.033	63	240387	90.886	ug/l	98
56) Bromoform	12.457	173	55235	19.272	ug/l #	100
58) 4-Methyl-2-Pentanone	10.328	43	664578	99.725	ug/l	99
59) 2-Hexanone	11.080	43	500259	99.015	ug/l	99
61) Tetrachloroethene	10.975	164	56523	20.557	ug/l	96
62) Toluene	10.498	91	302680	20.091	ug/l	98
64) Chlorobenzene	11.769	112	182292	19.874	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.839	131	72548	20.062	ug/l	98
66) Ethyl Benzene	11.839	91	350167	20.245	ug/l	100
67) m/p-Xylenes	11.951	106	256320	40.629	ug/l	93
68) o-Xylene	12.274	106	130804	20.324	ug/l	94
69) Styrene	12.292	104	204492	20.016	ug/l	95
70) Isopropylbenzene	12.574	105	341334	20.297	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.821	83	119048	20.912	ug/l	96
72) 1,2,3-Trichloropropane	12.874	75	96662m	19.457	ug/l	
73) Bromobenzene	12.857	156	70641	20.663	ug/l	77
74) n-propylbenzene	12.916	91	391527	20.345	ug/l	98
75) 2-Chlorotoluene	13.004	91	245393	20.572	ug/l	91
76) 1,3,5-Trimethylbenzene	13.057	105	287108	20.800	ug/l	100
77) t-1,4-Dichloro-2-butene	12.621	75	40888	19.527	ug/l	93
78) 4-Chlorotoluene	13.104	91	233181	20.692	ug/l	92
79) tert-butylbenzene	13.321	119	249742	20.266	ug/l	96
80) 1,2,4-Trimethylbenzene	13.498	105	346230	20.803	ug/l	100
81) sec-Butylbenzene	13.498	105	346230	20.803	ug/l	99
82) p-Isopropyltoluene	13.610	119	275895	20.766	ug/l	99
83) 1,3-Dichlorobenzene	13.610	146	123660	20.662	ug/l	97
84) 1,4-Dichlorobenzene	13.692	146	119936	20.639	ug/l	97
85) n-Butylbenzene	13.939	91	228987	20.327	ug/l	96
86) Hexachloroethane	14.210	117	59503	20.239	ug/l	90
87) 1,2-Dichlorobenzene	13.986	146	121783	20.561	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.598	75	28293	19.822	ug/l	86
89) 1,2,4-Trichlorobenzene	15.257	180	60021	20.109	ug/l	98
90) Hexachlorobutadiene	15.368	225	27854	20.800	ug/l	97
91) Naphthalene	15.504	128	232406	19.514	ug/l	99
92) 1,2,3-Trichlorobenzene	15.698	180	61868	20.375	ug/l	99

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

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