

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN033122\
 Data File : VN071699.D
 Acq On : 31 Mar 2022 10:39
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/01/2022
 Supervised By : Mahesh Dadoda 04/01/2022

Quant Time: Mar 31 18:48:18 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N032422W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 24 12:03:44 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.651	128	92404	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	522002	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	475594	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.434	65	194277	29.841	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.467%		
60) 4-Bromofluorobenzene	12.727	95	212191	30.090	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.300%		
63) Toluene-d8	10.439	98	638329	29.567	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.567%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.069	85	87992	15.299	ug/l	99
3) Chloromethane	2.299	50	98587	14.543	ug/l	93
4) Vinyl Chloride	2.446	62	106801	13.738	ug/l	96
5) Bromomethane	2.852	94	74818	16.332	ug/l	96
6) Chloroethane	3.016	64	79200	15.909	ug/l	96
7) Trichlorofluoromethane	3.375	101	151318	16.695	ug/l	99
8) Diethyl Ether	3.822	74	67635	17.759	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.210	101	97252	17.916	ug/l #	62
10) 1,1-Dichloroethene	4.181	96	85943	16.054	ug/l	94
11) Methyl Iodide	4.422	142	123900	15.794	ug/l	89
12) Methyl Acetate	4.852	43	141217	18.718	ug/l	97
13) Acrolein	4.040	56	87406	108.898	ug/l	96
14) Acrylonitrile	5.551	53	320336	93.749	ug/l	97
15) Acetone	4.281	58	106155	107.954	ug/l	89
16) Carbon Disulfide	4.534	76	155398	11.149	ug/l	98
17) Allyl chloride	4.840	41	147092	16.940	ug/l	81
18) Methylene Chloride	5.093	84	111716	17.395	ug/l	93
19) trans-1,2-Dichloroethene	5.593	96	92489	16.153	ug/l	97
20) Diisopropyl ether	6.493	45	338953	18.657	ug/l	93
21) 1,1-Dichloroethane	6.381	63	197968	18.048	ug/l	96
22) cis-1,2-Dichloroethene	7.322	96	125119	17.986	ug/l	95
23) tert-Butyl Alcohol	5.357	59	112088	91.930	ug/l #	100
24) Methyl tert-Butyl Ether	5.610	73	364528	18.867	ug/l	91
25) Chloroform	7.816	83	207772	18.834	ug/l	99
26) Cyclohexane	8.087	56	141804	14.956	ug/l #	99
29) 1,1-Dichloropropene	8.216	75	134296	15.895	ug/l	99
30) 2-Butanone	7.328	43	437510	93.025	ug/l	98
31) 2,2-Dichloropropane	7.322	77	167845	17.438	ug/l	100
32) 1,1,1-Trichloroethane	8.010	97	171951	17.474	ug/l	99
33) Carbon Tetrachloride	8.198	117	138841	16.668	ug/l	95
34) Benzene	8.457	78	446365	17.004	ug/l	98
35) Methacrylonitrile	7.634	41	87748	19.446	ug/l	94
36) 1,2-Dichloroethane	8.528	62	160623	17.540	ug/l #	95
37) Trichloroethene	9.210	130	114221	16.863	ug/l	94
38) Methylcyclohexane	9.457	83	158695	14.901	ug/l	98
39) 1,2-Dichloropropane	9.486	63	118271	18.008	ug/l	99
40) Dibromomethane	9.575	93	79707	17.930	ug/l	88
41) Bromodichloromethane	9.757	83	160537	18.047	ug/l	95
42) Vinyl Acetate	6.428	43	1430787	88.787	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.404	43	167222	18.336	ug/l	99
44) Isopropyl Acetate	8.557	43	265983	18.184	ug/l	97
45) 1,4-Dioxane	9.563	88	54668	370.438	ug/l	91
46) Methyl methacrylate	9.557	41	108655	16.939	ug/l	82
47) n-amyl Acetate	12.380	43	163764	16.778	ug/l	91
48) t-1,3-Dichloropropene	10.716	75	169286	17.508	ug/l	100
49) cis-1,3-Dichloropropene	10.186	75	185657	17.559	ug/l #	84
50) 1,1,2-Trichloroethane	10.892	97	124497	18.734	ug/l	98
51) Ethyl methacrylate	10.757	69	185428	18.071	ug/l	83
52) 1,3-Dichloropropane	11.039	76	204924	18.056	ug/l	99
53) Dibromochloromethane	11.233	129	126516	18.391	ug/l	98
54) 1,2-Dibromoethane	11.339	107	122883	17.976	ug/l	96
55) 2-Chloroethyl vinyl ether	10.039	63	220812	79.869	ug/l	98
56) Bromoform	12.451	173	93783	17.681	ug/l #	98
58) 4-Methyl-2-Pentanone	10.328	43	825757	91.465	ug/l	93
59) 2-Hexanone	11.081	43	604756	91.747	ug/l	91
61) Tetrachloroethene	10.975	164	97465	16.838	ug/l	95
62) Toluene	10.504	91	493526	17.114	ug/l	97
64) Chlorobenzene	11.769	112	317013	17.822	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.839	131	120463	18.460	ug/l	99
66) Ethyl Benzene	11.839	91	540450	17.245	ug/l	98
67) m/p-Xylenes	11.951	106	417608	34.253	ug/l	98
68) o-Xylene	12.275	106	211352	17.442	ug/l	97
69) Styrene	12.292	104	330832	17.347	ug/l	97
70) Isopropylbenzene	12.575	105	542452	17.836	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.822	83	188925	19.086	ug/l	100
72) 1,2,3-Trichloropropane	12.875	75	166613m	19.592	ug/l	
73) Bromobenzene	12.857	156	134596	18.141	ug/l	95
74) n-propylbenzene	12.916	91	583625	17.582	ug/l	97
75) 2-Chlorotoluene	13.004	91	369050	17.791	ug/l	100
76) 1,3,5-Trimethylbenzene	13.057	105	439991	18.032	ug/l	95
77) t-1,4-Dichloro-2-butene	12.622	75	51506	17.249	ug/l	94
78) 4-Chlorotoluene	13.098	91	347187	17.921	ug/l	99
79) tert-butylbenzene	13.322	119	401677	18.243	ug/l	94
80) 1,2,4-Trimethylbenzene	13.363	105	429870m	18.157	ug/l	
81) sec-Butylbenzene	13.498	105	529133	17.885	ug/l	97
82) p-Isopropyltoluene	13.610	119	429206	17.856	ug/l	97
83) 1,3-Dichlorobenzene	13.610	146	222101	18.294	ug/l	97
84) 1,4-Dichlorobenzene	13.692	146	210022	18.124	ug/l	99
85) n-Butylbenzene	13.939	91	301175	16.868	ug/l	95
86) Hexachloroethane	14.204	117	81611	18.181	ug/l	82
87) 1,2-Dichlorobenzene	13.986	146	221100	18.837	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.598	75	30953	17.575	ug/l	84
89) 1,2,4-Trichlorobenzene	15.257	180	98251	18.109	ug/l	97
90) Hexachlorobutadiene	15.363	225	64576	20.085	ug/l	99
91) Naphthalene	15.504	128	259614	19.302	ug/l	99
92) 1,2,3-Trichlorobenzene	15.698	180	99394	18.679	ug/l	97

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

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