

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041822\
 Data File : VN072028.D
 Acq On : 18 Apr 2022 11:13
 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 04/19/2022
 Supervised By : Mahesh Dadoda 04/19/2022

Quant Time: Apr 18 15:23:53 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	7.657	128	96883	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	509587	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	472555	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.433	65	185051	27.110	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	90.367%#		
60) 4-Bromofluorobenzene	12.727	95	205582	29.340	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	97.800%		
63) Toluene-d8	10.439	98	645515	30.092	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.300%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.069	85	132966	22.050	ug/l	99
3) Chloromethane	2.299	50	136144	19.155	ug/l	96
4) Vinyl Chloride	2.446	62	136496	16.746	ug/l	99
5) Bromomethane	2.857	94	91522	19.055	ug/l	97
6) Chloroethane	3.016	64	82646	15.834	ug/l	95
7) Trichlorofluoromethane	3.375	101	193962	20.411	ug/l	95
8) Diethyl Ether	3.822	74	76178	19.078	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.210	101	121191	21.294	ug/l #	62
10) 1,1-Dichloroethene	4.187	96	112085	19.969	ug/l	97
11) Methyl Iodide	4.422	142	157502	19.149	ug/l	86
12) Methyl Acetate	4.851	43	136424	17.247	ug/l #	90
13) Acrolein	4.040	56	52276	62.119	ug/l	98
14) Acrylonitrile	5.551	53	325540	90.867	ug/l	98
15) Acetone	4.287	58	130366	126.446	ug/l	72
16) Carbon Disulfide	4.534	76	297801	20.378	ug/l	98
17) Allyl chloride	4.845	41	157274	17.275	ug/l	77
18) Methylene Chloride	5.098	84	136647	20.294	ug/l	93
19) trans-1,2-Dichloroethene	5.598	96	125072	20.833	ug/l	95
20) Diisopropyl ether	6.492	45	359817	18.889	ug/l	92
21) 1,1-Dichloroethane	6.386	63	220722	19.192	ug/l	97
22) cis-1,2-Dichloroethene	7.322	96	147713	20.252	ug/l	92
23) tert-Butyl Alcohol	5.351	59	92058	72.012	ug/l #	100
24) Methyl tert-Butyl Ether	5.610	73	386170m	19.063	ug/l	
25) Chloroform	7.810	83	233003	20.145	ug/l	98
26) Cyclohexane	8.092	56	194322	19.548	ug/l #	97
29) 1,1-Dichloropropene	8.216	75	173173	20.995	ug/l	99
30) 2-Butanone	7.328	43	446845	97.325	ug/l	95
31) 2,2-Dichloropropane	7.322	77	184341	19.619	ug/l	98
32) 1,1,1-Trichloroethane	8.010	97	195890	20.391	ug/l	97
33) Carbon Tetrachloride	8.204	117	171756	21.122	ug/l	96
34) Benzene	8.457	78	546499	21.326	ug/l	96
35) Methacrylonitrile	7.628	41	84016	19.073	ug/l	95
36) 1,2-Dichloroethane	8.528	62	167937	18.785	ug/l #	92
37) Trichloroethene	9.210	130	137856	20.848	ug/l	97
38) Methylcyclohexane	9.457	83	211937	20.385	ug/l	97
39) 1,2-Dichloropropane	9.480	63	131689	20.540	ug/l	99
40) Dibromomethane	9.575	93	89429	20.607	ug/l	84
41) Bromodichloromethane	9.757	83	176969	20.378	ug/l	95
42) Vinyl Acetate	6.428	43	1456749	92.600	ug/l #	94

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.404	43	152924	17.177	ug/l #	93
44) Isopropyl Acetate	8.557	43	249768	17.492	ug/l	93
45) 1,4-Dioxane	9.563	88	53055	368.267	ug/l	94
46) Methyl methacrylate	9.551	41	103738	16.567	ug/l	77
47) n-amyl Acetate	12.386	43	148740m	15.610	ug/l	
48) t-1,3-Dichloropropene	10.710	75	178512	18.912	ug/l	96
49) cis-1,3-Dichloropropene	10.186	75	205823	19.940	ug/l #	81
50) 1,1,2-Trichloroethane	10.892	97	137624	21.213	ug/l	98
51) Ethyl methacrylate	10.757	69	191316	19.099	ug/l	75
52) 1,3-Dichloropropane	11.039	76	227483	20.532	ug/l	99
53) Dibromochloromethane	11.233	129	140235	20.881	ug/l	100
54) 1,2-Dibromoethane	11.339	107	136182	20.406	ug/l	95
55) 2-Chloroethyl vinyl ether	10.033	63	226757	84.018	ug/l	98
56) Bromoform	12.451	173	107981	20.854	ug/l #	99
58) 4-Methyl-2-Pentanone	10.327	43	789768	88.041	ug/l #	89
59) 2-Hexanone	11.080	43	573409	87.551	ug/l #	85
61) Tetrachloroethene	10.974	164	128075	22.269	ug/l	93
62) Toluene	10.498	91	608552	21.238	ug/l	97
64) Chlorobenzene	11.763	112	366865	20.757	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.833	131	133663	20.615	ug/l	99
66) Ethyl Benzene	11.839	91	623219	20.014	ug/l	96
67) m/p-Xylenes	11.951	106	505722	41.747	ug/l	95
68) o-Xylene	12.274	106	242861	20.171	ug/l	95
69) Styrene	12.292	104	379758	20.041	ug/l	97
70) Isopropylbenzene	12.574	105	609152	20.158	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.821	83	196622	19.991	ug/l	98
72) 1,2,3-Trichloropropane	12.874	75	142461m	16.860	ug/l	
73) Bromobenzene	12.857	156	149714	20.308	ug/l	93
74) n-propylbenzene	12.915	91	670809	20.339	ug/l	98
75) 2-Chlorotoluene	13.004	91	417404	20.251	ug/l	98
76) 1,3,5-Trimethylbenzene	13.057	105	515155	21.249	ug/l	95
77) t-1,4-Dichloro-2-butene	12.621	75	50733	17.100	ug/l	90
78) 4-Chlorotoluene	13.098	91	386651	20.086	ug/l	98
79) tert-butylbenzene	13.321	119	439908	20.108	ug/l	92
80) 1,2,4-Trimethylbenzene	13.363	105	492808m	20.950	ug/l	
81) sec-Butylbenzene	13.498	105	598621	20.364	ug/l	98
82) p-Isopropyltoluene	13.610	119	482615	20.207	ug/l	96
83) 1,3-Dichlorobenzene	13.610	146	249320	20.668	ug/l	98
84) 1,4-Dichlorobenzene	13.692	146	236554	20.545	ug/l	98
85) n-Butylbenzene	13.939	91	333085	18.775	ug/l	95
86) Hexachloroethane	14.204	117	86935	19.492	ug/l	75
87) 1,2-Dichlorobenzene	13.986	146	242484	20.792	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.598	75	29294	16.740	ug/l #	82
89) 1,2,4-Trichlorobenzene	15.262	180	101599	18.846	ug/l	97
90) Hexachlorobutadiene	15.362	225	72221	22.608	ug/l	97
91) Naphthalene	15.504	128	227358	17.828	ug/l	98
92) 1,2,3-Trichlorobenzene	15.698	180	99655	18.848	ug/l	98

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

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