

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032422\
 Data File : VN071525.D
 Acq On : 24 Mar 2022 17:09
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/25/2022
 Supervised By : Mahesh Dadoda 03/25/2022

Quant Time: Mar 24 17:27:36 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	105018	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	570025	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	513879	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.434	65	220322	29.777	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.267%		
60) 4-Bromofluorobenzene	12.727	95	228060	29.931	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.767%		
63) Toluene-d8	10.439	98	718088	30.783	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	102.600%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.069	85	136721	20.916	ug/l	98
3) Chloromethane	2.299	50	159853	20.749	ug/l	97
4) Vinyl Chloride	2.440	62	177320	20.070	ug/l	99
5) Bromomethane	2.846	94	112577	21.623	ug/l	98
6) Chloroethane	3.010	64	114307	20.204	ug/l	99
7) Trichlorofluoromethane	3.375	101	204425	19.845	ug/l	94
8) Diethyl Ether	3.828	74	85248	19.695	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.216	101	129659m	21.018	ug/l	
10) 1,1-Dichloroethene	4.187	96	121756	20.012	ug/l	99
11) Methyl Iodide	4.422	142	175671	19.704	ug/l	89
12) Methyl Acetate	4.851	43	170585	19.895	ug/l	97
13) Acrolein	4.034	56	74808	82.008	ug/l	97
14) Acrylonitrile	5.545	53	391882	100.912	ug/l	97
15) Acetone	4.287	58	102617	91.821	ug/l	84
16) Carbon Disulfide	4.534	76	302558	19.100	ug/l	96
17) Allyl chloride	4.840	41	190286	19.282	ug/l	88
18) Methylene Chloride	5.098	84	144871	19.848	ug/l	96
19) trans-1,2-Dichloroethene	5.598	96	132347	20.338	ug/l	98
20) Diisopropyl ether	6.492	45	420779	20.379	ug/l	94
21) 1,1-Dichloroethane	6.381	63	252533	20.258	ug/l	98
22) cis-1,2-Dichloroethene	7.322	96	157892	19.971	ug/l	98
23) tert-Butyl Alcohol	5.357	59	134836	97.304	ug/l #	100
24) Methyl tert-Butyl Ether	5.610	73	443700	20.207	ug/l	93
25) Chloroform	7.816	83	261118	20.827	ug/l	99
26) Cyclohexane	8.092	56	214463	19.903	ug/l #	99
29) 1,1-Dichloropropene	8.216	75	187770	20.351	ug/l	98
30) 2-Butanone	7.328	43	500875	97.526	ug/l	97
31) 2,2-Dichloropropane	7.322	77	208305	19.819	ug/l	100
32) 1,1,1-Trichloroethane	8.010	97	215726	20.075	ug/l	97
33) Carbon Tetrachloride	8.204	117	180408	19.833	ug/l	99
34) Benzene	8.457	78	584848	20.402	ug/l	99
35) Methacrylonitrile	7.634	41	94102	19.097	ug/l	95
36) 1,2-Dichloroethane	8.528	62	205836	20.583	ug/l	96
37) Trichloroethene	9.216	130	147251	19.908	ug/l	100
38) Methylcyclohexane	9.457	83	236047	20.297	ug/l	97
39) 1,2-Dichloropropane	9.486	63	144482	20.146	ug/l	94
40) Dibromomethane	9.575	93	100362	20.674	ug/l	87
41) Bromodichloromethane	9.757	83	194141	19.985	ug/l	95
42) Vinyl Acetate	6.428	43	1784381	101.400	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032422\
 Data File : VN071525.D
 Acq On : 24 Mar 2022 17:09
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/25/2022
 Supervised By : Mahesh Dadoda 03/25/2022

Quant Time: Mar 24 17:27:36 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)
43) Ethyl Acetate	7.404	43	194896	19.570	ug/l	100
44) Isopropyl Acetate	8.557	43	315442	19.749	ug/l	96
45) 1,4-Dioxane	9.563	88	65367	405.620	ug/l #	93
46) Methyl methacrylate	9.557	41	135820	19.391	ug/l	82
47) n-amyl Acetate	12.380	43	203428	19.086	ug/l	93
48) t-1,3-Dichloropropene	10.716	75	207468	19.649	ug/l	100
49) cis-1,3-Dichloropropene	10.186	75	229638	19.888	ug/l #	89
50) 1,1,2-Trichloroethane	10.892	97	151135	20.826	ug/l	97
51) Ethyl methacrylate	10.757	69	222923	19.895	ug/l	85
52) 1,3-Dichloropropane	11.039	76	252066	20.339	ug/l	99
53) Dibromochloromethane	11.233	129	145612	19.383	ug/l	99
54) 1,2-Dibromoethane	11.339	107	148070	19.835	ug/l	94
55) 2-Chloroethyl vinyl ether	10.039	63	266846	88.389	ug/l	98
56) Bromoform	12.457	173	108080	18.660	ug/l #	98
58) 4-Methyl-2-Pentanone	10.328	43	1000091	102.522	ug/l	93
59) 2-Hexanone	11.080	43	713935	100.241	ug/l	92
61) Tetrachloroethene	10.975	164	130012	20.788	ug/l	88
62) Toluene	10.504	91	645046	20.701	ug/l	97
64) Chlorobenzene	11.769	112	393377	20.467	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.839	131	144178	20.448	ug/l	99
66) Ethyl Benzene	11.839	91	687366	20.299	ug/l	96
67) m/p-Xylenes	11.951	106	539080	40.923	ug/l	97
68) o-Xylene	12.274	106	265502	20.278	ug/l	96
69) Styrene	12.292	104	402605	19.538	ug/l	98
70) Isopropylbenzene	12.574	105	669104	20.361	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.821	83	220464	20.613	ug/l	100
72) 1,2,3-Trichloropropane	12.874	75	196412m	21.376	ug/l	
73) Bromobenzene	12.857	156	161751	20.177	ug/l	97
74) n-propylbenzene	12.916	91	724435	20.198	ug/l	98
75) 2-Chlorotoluene	13.004	91	458770	20.468	ug/l	99
76) 1,3,5-Trimethylbenzene	13.057	105	541805	20.551	ug/l	95
77) t-1,4-Dichloro-2-butene	12.621	75	60955	18.893	ug/l	99
78) 4-Chlorotoluene	13.098	91	416086	19.877	ug/l	99
79) tert-butylbenzene	13.321	119	481877	20.255	ug/l	94
80) 1,2,4-Trimethylbenzene	13.363	105	514874m	20.128	ug/l	
81) sec-Butylbenzene	13.498	105	648880	20.299	ug/l	98
82) p-Isopropyltoluene	13.610	119	517671	19.932	ug/l	97
83) 1,3-Dichlorobenzene	13.610	146	264666	20.176	ug/l	98
84) 1,4-Dichlorobenzene	13.692	146	251726	20.105	ug/l	98
85) n-Butylbenzene	13.939	91	362236	18.777	ug/l	96
86) Hexachloroethane	14.204	117	95501	19.690	ug/l	83
87) 1,2-Dichlorobenzene	13.986	146	262389	20.689	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.598	75	36309	19.080	ug/l	86
89) 1,2,4-Trichlorobenzene	15.257	180	108807	18.560	ug/l	95
90) Hexachlorobutadiene	15.368	225	76217	21.940	ug/l	98
91) Naphthalene	15.504	128	271590	18.907	ug/l	99
92) 1,2,3-Trichlorobenzene	15.698	180	107431	18.685	ug/l	96

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

