

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090822\
 Data File : VN074352.D
 Acq On : 08 Sep 2022 12:23
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/09/2022
 Supervised By : Mahesh Dadoda 09/09/2022

Quant Time: Sep 08 13:44:55 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Sep 08 13:42:46 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.575	128	68355	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.898	114	417666	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.680	117	370815	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.363	65	223548	35.919	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 119.733%#			
60) 4-Bromofluorobenzene	12.668	95	209811	31.107	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 103.700%			
63) Toluene-d8	10.380	98	644708	31.030	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.433%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.046	85	28137	5.933	ug/l	98
3) Chloromethane	2.269	50	43002	6.823	ug/l	96
4) Vinyl Chloride	2.404	62	40851	5.434	ug/l	99
5) Bromomethane	2.787	94	28864	7.214	ug/l	96
6) Chloroethane	2.951	64	28322m	5.564	ug/l	
7) Trichlorofluoromethane	3.316	101	46349	6.047	ug/l	96
8) Diethyl Ether	3.763	74	18569	5.886	ug/l	75
9) 1,1,2-Trichlorotrifluo...	4.145	101	26444m	5.779	ug/l	
10) 1,1-Dichloroethene	4.110	96	24304	5.481	ug/l	89
11) Methyl Iodide	4.340	142	23810	4.547	ug/l	82
12) Methyl Acetate	4.769	43	62275	7.940	ug/l #	83
13) Acrolein	3.975	56	32967	25.539	ug/l	96
14) Acrylonitrile	5.469	53	99768	28.706	ug/l #	85
15) Acetone	4.222	58	28205	29.301	ug/l	78
16) Carbon Disulfide	4.451	76	71251	5.850	ug/l	95
17) Allyl chloride	4.757	41	55115	7.055	ug/l	94
18) Methylene Chloride	5.004	84	35583	6.411	ug/l #	84
19) trans-1,2-Dichloroethene	5.510	96	28952	5.954	ug/l #	86
20) Diisopropyl ether	6.404	45	105453	6.286	ug/l #	96
21) 1,1-Dichloroethane	6.304	63	60455m	6.299	ug/l	
22) cis-1,2-Dichloroethene	7.234	96	35762m	6.008	ug/l	
23) tert-Butyl Alcohol	5.275	59	40795	31.013	ug/l #	100
24) Methyl tert-Butyl Ether	5.522	73	103712m	6.393	ug/l	
25) Chloroform	7.739	83	57647	5.860	ug/l	99
26) Cyclohexane	8.022	56	53546	6.308	ug/l #	94
29) 1,1-Dichloropropene	8.151	75	41625	5.238	ug/l	94
30) 2-Butanone	7.257	43	145681	26.342	ug/l	96
31) 2,2-Dichloropropane	7.245	77	55358	6.389	ug/l #	86
32) 1,1,1-Trichloroethane	7.939	97	52674	5.687	ug/l	96
33) Carbon Tetrachloride	8.128	117	47233	5.931	ug/l	94
34) Benzene	8.386	78	130778	5.157	ug/l #	76
35) Methacrylonitrile	7.563	41	27751	6.247	ug/l	88
36) 1,2-Dichloroethane	8.457	62	52134m	6.118	ug/l	
37) Trichloroethene	9.151	130	29972	4.853	ug/l	86
38) Methylcyclohexane	9.392	83	55045	5.564	ug/l	97
39) 1,2-Dichloropropane	9.422	63	34684	5.395	ug/l	97
40) Dibromomethane	9.516	93	23793	5.452	ug/l	96
41) Bromodichloromethane	9.698	83	45870	5.325	ug/l #	88
42) Vinyl Acetate	6.345	43	491177	29.938	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090822\
 Data File : VN074352.D
 Acq On : 08 Sep 2022 12:23
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Manual Integrations

APPROVED

Reviewed By : John Carlone 09/09/2022

Supervised By : Mahesh Dadoda 09/09/2022

Quant Time: Sep 08 13:44:55 2022

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090822W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Thu Sep 08 13:42:46 2022

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.333	43	54315	5.043	ug/l	99
44) Isopropyl Acetate	8.486	43	96993	6.386	ug/l	99
45) 1,4-Dioxane	9.504	88	15551	90.817	ug/l	93
46) Methyl methacrylate	9.492	41	42005	6.248	ug/l	92
47) n-amyl Acetate	12.327	43	79859	6.337	ug/l	99
48) t-1,3-Dichloropropene	10.663	75	52151m	5.677	ug/l	
49) cis-1,3-Dichloropropene	10.122	75	53292	5.354	ug/l	96
50) 1,1,2-Trichloroethane	10.839	97	33688	5.194	ug/l	94
51) Ethyl methacrylate	10.698	69	55195	5.403	ug/l	94
52) 1,3-Dichloropropane	10.986	76	55284	4.991	ug/l	99
53) Dibromochloromethane	11.174	129	30599	4.578	ug/l	98
54) 1,2-Dibromoethane	11.280	107	32299	4.840	ug/l	98
55) 2-Chloroethyl vinyl ether	9.980	63	140944	30.608	ug/l	97
56) Bromoform	12.398	173	23101	4.429	ug/l #	97
58) 4-Methyl-2-Pentanone	10.269	43	299327	29.914	ug/l	96
59) 2-Hexanone	11.022	43	232254	30.043	ug/l	97
61) Tetrachloroethene	10.916	164	24865	4.565	ug/l	91
62) Toluene	10.445	91	143296	5.511	ug/l	99
64) Chlorobenzene	11.710	112	82181	5.280	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.780	131	30327	5.198	ug/l	92
66) Ethyl Benzene	11.786	91	147586	5.233	ug/l	97
67) m/p-Xylenes	11.892	106	107378	9.974	ug/l	92
68) o-Xylene	12.221	106	57962	5.394	ug/l	95
69) Styrene	12.233	104	91470	5.204	ug/l	97
70) Isopropylbenzene	12.521	105	142713	5.189	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.768	83	53675	5.584	ug/l	98
72) 1,2,3-Trichloropropane	12.827	75	48394m	5.744	ug/l	
73) Bromobenzene	12.798	156	32070	4.840	ug/l	87
74) n-propylbenzene	12.863	91	162551	5.093	ug/l	99
75) 2-Chlorotoluene	12.951	91	99686	5.226	ug/l	97
76) 1,3,5-Trimethylbenzene	13.004	105	118341	5.166	ug/l	97
77) t-1,4-Dichloro-2-butene	12.563	75	17033	5.506	ug/l	92
78) 4-Chlorotoluene	13.045	91	94261	5.123	ug/l	98
79) tert-butylbenzene	13.263	119	104739	5.213	ug/l	99
80) 1,2,4-Trimethylbenzene	13.310	105	119021m	5.215	ug/l	
81) sec-Butylbenzene	13.445	105	141818	4.985	ug/l	100
82) p-Isopropyltoluene	13.557	119	114675	4.902	ug/l	98
83) 1,3-Dichlorobenzene	13.557	146	52277	4.297	ug/l	95
84) 1,4-Dichlorobenzene	13.633	146	51956	4.416	ug/l	93
85) n-Butylbenzene	13.886	91	100752	5.188	ug/l	96
86) Hexachloroethane	14.151	117	24486	5.587	ug/l	94
87) 1,2-Dichlorobenzene	13.927	146	58123	4.726	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.545	75	12006	5.528	ug/l	98
89) 1,2,4-Trichlorobenzene	15.198	180	27879	4.086	ug/l	98
90) Hexachlorobutadiene	15.304	225	12188	3.646	ug/l	86
91) Naphthalene	15.439	128	113032	4.856	ug/l	99
92) 1,2,3-Trichlorobenzene	15.633	180	29441	4.258	ug/l	98

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

Manual Integrations APPROVED

Quant Time: Sep 08 13:44:55 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090822W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Sep 08 13:42:46 2022
Response via : Initial Calibration

