

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051321\
 Data File : VX021935.D
 Acq On : 12 May 2021 18:34
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 5/13/2021 4:07:15 PM

Quant Time: May 13 06:00:00 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 13 05:56:15 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	19174	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	110324	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	98807	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	43825	29.67	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.90%		
60) 4-Bromofluorobenzene	11.085	95	49749	30.34	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	101.13%		
63) Toluene-d8	8.653	98	135896	30.10	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.33%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	58439	51.63	ug/l	94
3) Chloromethane	1.294	50	69289	50.96	ug/l	98
4) Vinyl Chloride	1.374	62	72285	51.19	ug/l	100
5) Bromomethane	1.605	94	35929	45.21	ug/l	94
6) Chloroethane	1.685	64	46428	51.07	ug/l	99
7) Trichlorofluoromethane	1.886	101	99702	50.53	ug/l	98
8) Diethyl Ether	2.136	74	42869	50.66	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.331	101	54841	48.47	ug/l	97
10) 1,1-Dichloroethene	2.325	96	57452	50.41	ug/l	97
11) Methyl Iodide	2.453	142	66489	58.66	ug/l	96
12) Methyl Acetate	2.709	43	79888	50.69	ug/l	99
13) Acrolein	2.239	56	64937	265.71	ug/l	97
14) Acrylonitrile	3.068	53	164541	255.90	ug/l	98
15) Acetone	2.386	58	48312	251.68	ug/l	94
16) Carbon Disulfide	2.514	76	158426	50.81	ug/l	99
17) Allyl chloride	2.666	41	100859	50.21	ug/l	97
18) Methylene Chloride	2.794	84	65894	48.64	ug/l	95
19) trans-1,2-Dichloroethene	3.099	96	61423	49.59	ug/l	97
20) Diisopropyl ether	3.770	45	189099	49.94	ug/l	96
21) 1,1-Dichloroethane	3.617	63	114009	50.27	ug/l	98
22) cis-1,2-Dichloroethene	4.495	96	73526	50.52	ug/l	99
23) tert-Butyl Alcohol	2.971	59	78840	252.23	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	187485	50.52	ug/l	99
25) Chloroform	5.105	83	115527	50.26	ug/l	99
26) Cyclohexane	5.483	56	93284	49.86	ug/l #	99
29) 1,1-Dichloropropene	5.696	75	88050	50.99	ug/l	99
30) 2-Butanone	4.568	43	250788	256.59	ug/l	100
31) 2,2-Dichloropropane	4.483	77	100453	49.51	ug/l #	82
32) 1,1,1-Trichloroethane	5.397	97	102251	50.19	ug/l	99
33) Carbon Tetrachloride	5.684	117	88149	50.98	ug/l	95
34) Benzene	6.044	78	263886	50.09	ug/l	96
35) Methacrylonitrile	4.928	41	53644	51.27	ug/l	91
36) 1,2-Dichloroethane	6.092	62	91338	50.78	ug/l #	87
37) Trichloroethene	7.129	130	66321	50.09	ug/l	99
38) Methylcyclohexane	7.385	83	97941	49.96	ug/l	98
39) 1,2-Dichloropropane	7.440	63	67554	51.36	ug/l	99
40) Dibromomethane	7.586	93	47266	51.63	ug/l	98
41) Bromodichloromethane	7.830	83	95053	52.02	ug/l	99
42) Vinyl Acetate	3.727	43	933651	255.79	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051321\
 Data File : VX021935.D
 Acq On : 12 May 2021 18:34
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 5/13/2021 4:07:15 PM

Quant Time: May 13 06:00:00 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 13 05:56:15 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	98504	57.48	ug/l	97
44) Isopropyl Acetate	6.348	43	166490	50.83	ug/l	99
45) 1,4-Dioxane	7.671	88	30207	1032.84	ug/l #	100
46) Methyl methacrylate	7.696	41	79000	52.02	ug/l	96
47) n-amyl Acetate	10.848	43	144177	52.92	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	107730	52.51	ug/l	97
49) cis-1,3-Dichloropropene	8.372	75	113846	51.71	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	67469	51.79	ug/l	96
51) Ethyl methacrylate	9.122	69	108943	51.85	ug/l	98
52) 1,3-Dichloropropane	9.311	76	114365	50.35	ug/l	98
53) Dibromochloromethane	9.525	129	69038	52.74	ug/l	99
54) 1,2-Dibromoethane	9.616	107	70428	52.64	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	284555	256.59	ug/l	99
56) Bromoform	10.805	173	44687	53.81	ug/l	98
58) 4-Methyl-2-Pentanone	8.580	43	506221	254.06	ug/l	99
59) 2-Hexanone	9.433	43	377937	256.11	ug/l	99
61) Tetrachloroethene	9.281	164	54654	48.76	ug/l	94
62) Toluene	8.726	91	284374	50.26	ug/l	100
64) Chlorobenzene	10.086	112	171031	50.56	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	64983	52.64	ug/l	97
66) Ethyl Benzene	10.195	91	314792	50.58	ug/l	99
67) m/p-Xylenes	10.305	106	237894	115.56	ug/l	99
68) o-Xylene	10.646	106	116110	50.54	ug/l	97
69) Styrene	10.659	104	195092	50.75	ug/l	100
70) Isopropylbenzene	10.963	105	307567	50.97	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	99960	50.24	ug/l	98
72) 1,2,3-Trichloropropane	11.244	75	89013m	38.14	ug/l	
73) Bromobenzene	11.201	156	65381	51.15	ug/l	100
74) n-propylbenzene	11.311	91	363197	51.64	ug/l	98
75) 2-Chlorotoluene	11.366	91	212910	51.11	ug/l	98
76) 1,3,5-Trimethylbenzene	11.457	105	255147	50.64	ug/l	98
77) t-1,4-Dichloro-2-butene	11.024	75	38091	53.29	ug/l	94
78) 4-Chlorotoluene	11.457	91	244196	50.93	ug/l	99
79) tert-butylbenzene	11.719	119	244021	50.64	ug/l	99
80) 1,2,4-Trimethylbenzene	11.756	105	257522	51.15	ug/l	99
81) sec-Butylbenzene	11.896	105	308125	50.88	ug/l	100
82) p-Isopropyltoluene	12.012	119	261836	51.57	ug/l	99
83) 1,3-Dichlorobenzene	11.975	146	121794	50.25	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	124409	51.18	ug/l	99
85) n-Butylbenzene	12.335	91	242050	52.02	ug/l	99
86) Hexachloroethane	12.542	117	44043	52.20	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	120882	51.49	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	23108	52.16	ug/l	96
89) 1,2,4-Trichlorobenzene	13.591	180	76574	53.25	ug/l	96
90) Hexachlorobutadiene	13.731	225	28841	51.84	ug/l	98
91) Naphthalene	13.780	128	302963	53.71	ug/l	98
92) 1,2,3-Trichlorobenzene	13.963	180	76200	53.38	ug/l	97

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

