

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021319\
 Data File : VX007499.D
 Acq On : 12 Feb 2019 22:36
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 2/13/2019 11:52:34 AM

Quant Time: Feb 13 07:52:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X021319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Feb 13 07:08:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	78257	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	394388	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	355250	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	149960	29.24	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.47%
60) 4-Bromofluorobenzene	11.13	95	158959	29.10	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.00%
63) Toluene-d8	8.71	98	484873	30.28	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.93%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	19655	5.361 ug/l	92
3) Chloromethane	1.33	50	21594	5.324 ug/l	99
4) Vinyl Chloride	1.41	62	25141	5.505 ug/l	94
5) Bromomethane	1.64	94	22740	5.022 ug/l	100
6) Chloroethane	1.72	64	16534	5.378 ug/l	92
7) Trichlorofluoromethane	1.93	101	37898	4.973 ug/l	100
8) Diethyl Ether	2.19	74	15709	5.412 ug/l	95
9) 1,1,2-Trichlorotrifluoroet	2.39	101	22206	4.976 ug/l	96
10) 1,1-Dichloroethene	2.38	96	20854	5.061 ug/l	89
11) Methyl Iodide	2.51	142	24003	3.702 ug/l	98
12) Methyl Acetate	2.78	43	35808	5.359 ug/l	94
13) Acrolein	2.29	56	25570	42.484 ug/l	100
14) Acrylonitrile	3.15	53	68369	26.193 ug/l	97
15) Acetone	2.45	58	19003	25.937 ug/l	88
16) Carbon Disulfide	2.57	76	49554	4.863 ug/l	95
17) Allyl chloride	2.73	41	35795	5.043 ug/l	95
18) Methylene Chloride	2.86	84	25412	5.405 ug/l	96
19) trans-1,2-Dichloroethene	3.17	96	22863	5.148 ug/l	94
20) Diisopropyl ether	3.87	45	68541	5.162 ug/l	92
21) 1,1-Dichloroethane	3.70	63	39896	5.290 ug/l	93
22) cis-1,2-Dichloroethene	4.60	96	25035	5.102 ug/l	97
23) tert-Butyl Alcohol	3.07	59	28748	26.327 ug/l #	100
24) Methyl tert-Butyl Ether	3.20	73	74379	5.180 ug/l	99
25) Chloroform	5.21	83	41982	5.361 ug/l	97
26) Cyclohexane	5.57	56	29993	4.688 ug/l #	94
29) 1,1-Dichloropropene	5.79	75	27112	5.191 ug/l	98
30) 2-Butanone	4.70	43	82045	26.460 ug/l	97
31) 2,2-Dichloropropane	4.59	77	22090m	4.345 ug/l	
32) 1,1,1-Trichloroethane	5.49	97	32004	5.158 ug/l	95
33) Carbon Tetrachloride	5.79	117	28354	5.193 ug/l	98
34) Benzene	6.14	78	91819	5.679 ug/l	97
35) Methacrylonitrile	5.06	41	17451	5.487 ug/l	84
36) 1,2-Dichloroethane	6.20	62	31938m	5.741 ug/l	
37) Trichloroethene	7.21	130	25875	5.451 ug/l	94
38) Methylcyclohexane	7.46	83	31071	4.743 ug/l	96
39) 1,2-Dichloropropane	7.51	63	22718	5.600 ug/l	96
40) Dibromomethane	7.66	93	15947	5.424 ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	7.90	83	26206	5.092	ug/l	99
42) Vinyl Acetate	3.82	43	266764	24.928	ug/l	99
43) Ethyl Acetate	4.86	43	30952	5.281	ug/l #	91
44) Isopropyl Acetate	6.46	43	46507	5.104	ug/l	99
45) 1,4-Dioxane	7.76	88	10865	99.183	ug/l	90
46) Methyl methacrylate	7.77	41	23630	5.102	ug/l	90
47) n-amyl Acetate	10.90	43	36462	4.568	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	24013	4.331	ug/l	97
49) cis-1,3-Dichloropropene	8.43	75	28256	4.581	ug/l	95
50) 1,1,2-Trichloroethane	9.21	97	23129	5.289	ug/l	97
51) Ethyl methacrylate	9.18	69	31750	5.065	ug/l	93
52) 1,3-Dichloropropane	9.37	76	37947	5.409	ug/l	97
53) Dibromochloromethane	9.59	129	20815	4.699	ug/l	99
54) 1,2-Dibromoethane	9.67	107	25512	5.430	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	79495	23.596	ug/l	98
56) Bromoform	10.86	173	14113	4.190	ug/l	97
58) 4-Methyl-2-Pentanone	8.65	43	153451	25.383	ug/l	100
59) 2-Hexanone	9.49	43	113227	24.433	ug/l	98
61) Tetrachloroethene	9.34	164	26795	5.435	ug/l	97
62) Toluene	8.79	91	100156	5.497	ug/l	98
64) Chlorobenzene	10.14	112	65495	5.456	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.22	131	21786	5.094	ug/l	98
66) Ethyl Benzene	10.25	91	100659	5.131	ug/l	100
67) m/p-Xylenes	10.36	106	77841	10.077	ug/l	97
68) o-Xylene	10.69	106	38777	5.123	ug/l	99
69) Styrene	10.71	104	58863	4.818	ug/l	99
70) Isopropylbenzene	11.02	105	99908	4.995	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	35201	5.436	ug/l	100
72) 1,2,3-Trichloropropane	11.29	75	31312m	5.186	ug/l	
73) Bromobenzene	11.26	156	28044	5.067	ug/l	97
74) n-propylbenzene	11.36	91	107934	4.810	ug/l	98
75) 2-Chlorotoluene	11.42	91	69044	5.181	ug/l	97
76) 1,3,5-Trimethylbenzene	11.51	105	80186	4.824	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	6777	3.834	ug/l	89
78) 4-Chlorotoluene	11.51	91	75100	4.868	ug/l	100
79) tert-butylbenzene	12.06	119	82150	4.576	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	81685	4.853	ug/l	99
81) sec-Butylbenzene	11.94	105	94985	4.752	ug/l	98
82) p-Isopropyltoluene	12.06	119	82150	4.576	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	48200	4.914	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	47714	4.869	ug/l	98
85) n-Butylbenzene	12.39	91	63051	4.113	ug/l	98
86) Hexachloroethane	12.60	117	11844	4.179	ug/l	96
87) 1,2-Dichlorobenzene	12.39	146	49336	5.036	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.00	75	6220	4.700	ug/l	95
89) 1,2,4-Trichlorobenzene	13.65	180	28097	4.220	ug/l	97
90) Hexachlorobutadiene	13.78	225	14320	4.516	ug/l	96
91) Naphthalene	13.83	128	89877	4.415	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	30201	4.569	ug/l	97

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

