

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100218\
 Data File : VX004915.D
 Acq On : 02 Oct 2018 12:33
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX100218

Manual Integrations
 APPROVED

MMDadoda
 10/3/2018 4:23:27 PM

Quant Time: Oct 03 07:56:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X100218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 03 04:49:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	42940	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	238887	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	223329	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	98020	30.04	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.13%
60) 4-Bromofluorobenzene	11.14	95	111675	30.08	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.27%
63) Toluene-d8	8.71	98	292265	29.32	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.73%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	79490	23.777	ug/l 100
3) Chloromethane	1.32	50	83014	23.932	ug/l 100
4) Vinyl Chloride	1.40	62	82580	23.288	ug/l 98
5) Bromomethane	1.64	94	37626	22.112	ug/l 98
6) Chloroethane	1.72	64	46420	22.801	ug/l 97
7) Trichlorofluoromethane	1.93	101	105721	23.405	ug/l 100
8) Diethyl Ether	2.19	74	41950	22.782	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.39	101	61401	23.669	ug/l 99
10) 1,1-Dichloroethene	2.37	96	55471	22.576	ug/l 99
11) Methyl Iodide	2.51	142	34802	22.104	ug/l 99
12) Methyl Acetate	2.78	43	115583	23.328	ug/l 98
13) Acrolein	2.29	56	49074	107.201	ug/l 99
14) Acrylonitrile	3.15	53	229353	113.276	ug/l 99
15) Acetone	2.45	58	73698	108.889	ug/l 99
16) Carbon Disulfide	2.57	76	169722	23.551	ug/l 100
17) Allyl chloride	2.73	41	124621	22.808	ug/l 98
18) Methylene Chloride	2.85	84	64656	22.627	ug/l 97
19) trans-1,2-Dichloroethene	3.16	96	60264	22.957	ug/l 99
20) Diisopropyl ether	3.87	45	222551	23.890	ug/l 99
21) 1,1-Dichloroethane	3.70	63	118855	23.156	ug/l 99
22) cis-1,2-Dichloroethene	4.60	96	65439	22.536	ug/l 99
23) tert-Butyl Alcohol	3.06	59	111732	119.557	ug/l # 100
24) Methyl tert-Butyl Ether	3.20	73	204487	22.646	ug/l 100
25) Chloroform	5.21	83	108445	22.449	ug/l 98
26) Cyclohexane	5.57	56	101321	23.002	ug/l # 100
29) 1,1-Dichloropropene	5.80	75	81418	23.032	ug/l 99
30) 2-Butanone	4.70	43	321914	112.007	ug/l 100
31) 2,2-Dichloropropane	4.58	77	89791	23.151	ug/l 99
32) 1,1,1-Trichloroethane	5.49	97	90866	22.361	ug/l 99
33) Carbon Tetrachloride	5.78	117	79532	22.285	ug/l 98
34) Benzene	6.14	78	243005	22.653	ug/l 98
35) Methacrylonitrile	5.06	41	60220	22.547	ug/l 99
36) 1,2-Dichloroethane	6.20	62	87421	22.622	ug/l 98
37) Trichloroethene	7.21	130	65271	23.099	ug/l 96
38) Methylcyclohexane	7.46	83	97828	23.310	ug/l 99
39) 1,2-Dichloropropane	7.52	63	65009	22.745	ug/l 91
40) Dibromomethane	7.66	93	42030	22.688	ug/l 96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	78839	22.076	ug/l	99
42) Vinyl Acetate	3.82	43	1019888	122.657	ug/l	100
43) Ethyl Acetate	4.85	43	109332	23.061	ug/l	97
44) Isopropyl Acetate	6.46	43	155903	22.036	ug/l	99
45) 1,4-Dioxane	7.75	88	37320	447.730	ug/l	98
46) Methyl methacrylate	7.77	41	80636	21.968	ug/l	96
47) n-amyl Acetate	10.90	43	136102	20.851	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	89423	21.887	ug/l	99
49) cis-1,3-Dichloropropene	8.44	75	99206	22.401	ug/l	99
50) 1,1,2-Trichloroethane	9.22	97	63582	22.670	ug/l	98
51) Ethyl methacrylate	9.18	69	97349	21.871	ug/l	96
52) 1,3-Dichloropropane	9.37	76	105579	22.313	ug/l	100
53) Dibromochloromethane	9.59	129	62747	21.564	ug/l	98
54) 1,2-Dibromoethane	9.67	107	65155	22.291	ug/l	100
55) 2-Chloroethyl vinyl ether	8.31	63	257385	109.585	ug/l	99
56) Bromoform	10.86	173	50556	20.804	ug/l	99
58) 4-Methyl-2-Pentanone	8.65	43	559190	111.517	ug/l	99
59) 2-Hexanone	9.50	43	450851	109.131	ug/l	100
61) Tetrachloroethene	9.34	164	63369	23.316	ug/l	99
62) Toluene	8.79	91	264684	22.551	ug/l	99
64) Chlorobenzene	10.14	112	170142	22.447	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	59186	21.480	ug/l	98
66) Ethyl Benzene	10.26	91	285394	22.273	ug/l	98
67) m/p-Xylenes	10.36	106	221702	44.437	ug/l	98
68) o-Xylene	10.70	106	106804	22.208	ug/l	98
69) Styrene	10.71	104	176983	21.885	ug/l	99
70) Isopropylbenzene	11.02	105	289264	22.462	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	102656	21.462	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	95010m	21.803	ug/l	
73) Bromobenzene	11.26	156	76803	21.696	ug/l	99
74) n-propylbenzene	11.36	91	341871	22.562	ug/l	99
75) 2-Chlorotoluene	11.42	91	205708	22.260	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	248624	22.375	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	28127	19.632	ug/l	96
78) 4-Chlorotoluene	11.51	91	236384	22.007	ug/l	100
79) tert-butylbenzene	12.07	119	259624	22.016	ug/l	100
80) 1,2,4-Trimethylbenzene	11.81	105	252084	22.246	ug/l	100
81) sec-Butylbenzene	11.94	105	295137	22.502	ug/l	100
82) p-Isopropyltoluene	12.07	119	259624	22.016	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	142075	21.704	ug/l	100
84) 1,4-Dichlorobenzene	12.10	146	144868	21.808	ug/l	99
85) n-Butylbenzene	12.39	91	235724	22.008	ug/l	100
86) Hexachloroethane	12.60	117	40559	20.881	ug/l	100
87) 1,2-Dichlorobenzene	12.39	146	141081	21.202	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	22840	20.664	ug/l	97
89) 1,2,4-Trichlorobenzene	13.65	180	108375	21.833	ug/l	99
90) Hexachlorobutadiene	13.79	225	56822	23.187	ug/l	99
91) Naphthalene	13.83	128	327576	21.223	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	108834	21.382	ug/l	100

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

