

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050219\
 Data File : VX009267.D
 Acq On : 02 May 2019 11:04
 Operator : JC/SP
 Sample : K2241-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT2-2019

Manual Integrations
 APPROVED

MMDadoda
 5/3/2019 11:19:37 AM

Quant Time: May 03 07:20:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X050119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 02 06:46:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	31766	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	184323	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	161656	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	78200	29.68	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.93%
60) 4-Bromofluorobenzene	11.13	95	79827	29.06	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.87%
63) Toluene-d8	8.71	98	234039	30.54	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	4063	2.407 ug/l	98
3) Chloromethane	1.32	50	5634	2.483 ug/l	100
4) Vinyl Chloride	1.40	62	5406	2.388 ug/l	99
5) Bromomethane	1.64	94	3331	2.322 ug/l	89
6) Chloroethane	1.72	64	3393	2.286 ug/l	88
7) Trichlorofluoromethane	1.93	101	6787	2.428 ug/l	97
8) Diethyl Ether	2.18	74	3181	2.451 ug/l	94
9) 1,1,2-Trichlorotrifluoroet	2.38	101	4581	2.647 ug/l	99
10) 1,1-Dichloroethene	2.37	96	4444	2.558 ug/l	88
11) Methyl Iodide	2.51	142	3447	1.825 ug/l	89
12) Methyl Acetate	2.77	43	8826	2.697 ug/l	93
13) Acrolein	2.29	56	6052	13.483 ug/l	98
14) Acrylonitrile	3.14	53	17295	12.177 ug/l	98
15) Acetone	2.44	58	5280	12.948 ug/l	95
16) Carbon Disulfide	2.57	76	9915	2.109 ug/l	99
17) Allyl chloride	2.73	41	9644	2.312 ug/l	98
18) Methylene Chloride	2.85	84	5208	2.480 ug/l	89
19) trans-1,2-Dichloroethene	3.16	96	4543	2.452 ug/l	86
20) Diisopropyl ether	3.85	45	20537	2.500 ug/l #	81
21) 1,1-Dichloroethane	3.70	63	9956	2.504 ug/l	97
22) cis-1,2-Dichloroethene	4.59	96	5502	2.466 ug/l	97
23) tert-Butyl Alcohol	3.04	59	7225m	12.031 ug/l	
24) Methyl tert-Butyl Ether	3.19	73	17002	2.500 ug/l #	79
25) Chloroform	5.20	83	9468	2.610 ug/l	90
26) Cyclohexane	5.57	56	9138	2.466 ug/l #	97
29) 1,1-Dichloropropene	5.79	75	6393	2.364 ug/l	85
30) 2-Butanone	4.68	43	25842	12.200 ug/l #	98
31) 2,2-Dichloropropane	4.58	77	7523	2.523 ug/l #	79
32) 1,1,1-Trichloroethane	5.49	97	7358	2.510 ug/l	98
33) Carbon Tetrachloride	5.78	117	5854	2.386 ug/l	94
34) Benzene	6.13	78	21017	2.521 ug/l	97
35) Methacrylonitrile	5.04	41	5676	2.561 ug/l	92
36) 1,2-Dichloroethane	6.18	62	7962	2.632 ug/l	100
37) Trichloroethene	7.21	130	4961	2.472 ug/l	82
38) Methylcyclohexane	7.46	83	8042	2.407 ug/l	98
39) 1,2-Dichloropropane	7.51	63	6178	2.602 ug/l	92
40) Dibromomethane	7.66	93	3294	2.444 ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	6407	2.327	ug/l #	93
42) Vinyl Acetate	3.81	43	81150	11.608	ug/l	100
43) Ethyl Acetate	4.83	43	10014m	2.616	ug/l	
44) Isopropyl Acetate	6.44	43	14448	2.330	ug/l	99
45) 1,4-Dioxane	7.74	88	2899	47.622	ug/l	91
46) Methyl methacrylate	7.77	41	7079	2.287	ug/l	86
47) n-amyl Acetate	10.90	43	12179	2.180	ug/l	98
48) t-1,3-Dichloropropene	9.04	75	6774	2.109	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	7714	2.188	ug/l	96
50) 1,1,2-Trichloroethane	9.21	97	5309	2.571	ug/l	95
51) Ethyl methacrylate	9.18	69	8311	2.178	ug/l	91
52) 1,3-Dichloropropane	9.37	76	9271	2.530	ug/l	99
53) Dibromochloromethane	9.58	129	4589	2.232	ug/l	96
54) 1,2-Dibromoethane	9.67	107	5388	2.544	ug/l	95
55) 2-Chloroethyl vinyl ether	8.31	63	23289	11.454	ug/l	98
56) Bromoform	10.85	173	3216	2.037	ug/l	98
58) 4-Methyl-2-Pentanone	8.64	43	47460	11.940	ug/l	100
59) 2-Hexanone	9.49	43	37255	11.949	ug/l	100
61) Tetrachloroethene	9.34	164	4832	2.711	ug/l	95
62) Toluene	8.78	91	21663	2.508	ug/l	100
64) Chlorobenzene	10.13	112	13466	2.590	ug/l	95
65) 1,1,1,2-Tetrachloroethane	10.22	131	4478	2.352	ug/l	98
66) Ethyl Benzene	10.25	91	23796	2.473	ug/l	99
67) m/p-Xylenes	10.36	106	16877	4.804	ug/l	97
68) o-Xylene	10.69	106	8366	2.422	ug/l	99
69) Styrene	10.71	104	13558	2.236	ug/l	98
70) Isopropylbenzene	11.02	105	22402	2.411	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	8544	2.511	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	7131m	2.432	ug/l	
73) Bromobenzene	11.25	156	5830	2.540	ug/l	96
74) n-propylbenzene	11.36	91	25116	2.333	ug/l	99
75) 2-Chlorotoluene	11.42	91	15886	2.460	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	18763	2.384	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	2273	1.922	ug/l	88
78) 4-Chlorotoluene	11.51	91	17901	2.441	ug/l	99
79) tert-butylbenzene	11.77	119	18526	2.435	ug/l	96
80) 1,2,4-Trimethylbenzene	11.80	105	18518	2.348	ug/l	98
81) sec-Butylbenzene	11.94	105	21801	2.412	ug/l	100
82) p-Isopropyltoluene	12.06	119	19383	2.357	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	9660	2.356	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	9782	2.395	ug/l	99
85) n-Butylbenzene	12.38	91	16495	2.192	ug/l	98
86) Hexachloroethane	12.60	117	3123	2.232	ug/l	94
87) 1,2-Dichlorobenzene	12.39	146	9988	2.420	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	13.00	75	1821	2.303	ug/l	88
89) 1,2,4-Trichlorobenzene	13.65	180	6191	2.105	ug/l	96
90) Hexachlorobutadiene	13.78	225	3685	2.508	ug/l	97
91) Naphthalene	13.83	128	20040	2.081	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	6835	2.286	ug/l	100

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

