

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050219\
 Data File : VX009270.D
 Acq On : 02 May 2019 12:14
 Operator : JC/SP
 Sample : VX0502WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 Client Sample ID :
 VX0502WBSD01

Manual Integrations
 APPROVED

MMDadoda
 5/3/2019 11:19:49 AM

Quant Time: May 03 07:29:19 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	5.02	128	31082	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	179006	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	161350	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	76347	29.61	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.70%
60) 4-Bromofluorobenzene	11.13	95	80294	29.29	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.63%
63) Toluene-d8	8.71	98	228542	29.88	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	33327	20.179	ug/l 100
3) Chloromethane	1.32	50	45633	20.556	ug/l 98
4) Vinyl Chloride	1.41	62	44358	20.029	ug/l 99
5) Bromomethane	1.64	94	26659	18.990	ug/l 97
6) Chloroethane	1.71	64	27738	19.098	ug/l 95
7) Trichlorofluoromethane	1.93	101	54816	20.044	ug/l 98
8) Diethyl Ether	2.19	74	25550	20.121	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	2.38	101	34368	20.298	ug/l 98
10) 1,1-Dichloroethene	2.37	96	33788	19.874	ug/l 94
11) Methyl Iodide	2.51	142	36687	19.851	ug/l 98
12) Methyl Acetate	2.78	43	64295	20.079	ug/l 98
13) Acrolein	2.29	56	39766	90.542	ug/l 98
14) Acrylonitrile	3.14	53	141957	102.150	ug/l 99
15) Acetone	2.45	58	38969	97.667	ug/l 100
16) Carbon Disulfide	2.57	76	91455	19.882	ug/l 100
17) Allyl chloride	2.73	41	81676	20.011	ug/l 98
18) Methylene Chloride	2.85	84	41534	20.215	ug/l 98
19) trans-1,2-Dichloroethene	3.17	96	36978	20.400	ug/l 97
20) Diisopropyl ether	3.85	45	165966	20.649	ug/l 99
21) 1,1-Dichloroethane	3.70	63	79645	20.476	ug/l 98
22) cis-1,2-Dichloroethene	4.60	96	44184	20.236	ug/l 97
23) tert-Butyl Alcohol	3.05	59	59706	101.606	ug/l # 100
24) Methyl tert-Butyl Ether	3.20	73	135390	20.349	ug/l 100
25) Chloroform	5.21	83	72985	20.561	ug/l 96
26) Cyclohexane	5.57	56	74221	20.474	ug/l # 99
29) 1,1-Dichloropropene	5.80	75	55249	21.034	ug/l 98
30) 2-Butanone	4.67	43	212661	103.383	ug/l 100
31) 2,2-Dichloropropane	4.58	77	57436	19.835	ug/l 99
32) 1,1,1-Trichloroethane	5.49	97	60066	21.095	ug/l 97
33) Carbon Tetrachloride	5.78	117	48476	20.347	ug/l 98
34) Benzene	6.14	78	169669	20.953	ug/l 100
35) Methacrylonitrile	5.04	41	44734	20.786	ug/l 94
36) 1,2-Dichloroethane	6.19	62	60999	20.760	ug/l 100
37) Trichloroethene	7.21	130	40664	20.861	ug/l 90
38) Methylcyclohexane	7.46	83	66541	20.505	ug/l 100
39) 1,2-Dichloropropane	7.51	63	48521	21.041	ug/l 99
40) Dibromomethane	7.66	93	27571	21.066	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	55545	20.777	ug/l	97
42) Vinyl Acetate	3.81	43	713434	105.085	ug/l	100
43) Ethyl Acetate	4.84	43	79971	21.515	ug/l	98
44) Isopropyl Acetate	6.45	43	124123	20.613	ug/l	99
45) 1,4-Dioxane	7.74	88	25457	430.607	ug/l	100
46) Methyl methacrylate	7.77	41	61207	20.365	ug/l	97
47) n-amyl Acetate	10.90	43	109529	20.192	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	61823	19.819	ug/l	98
49) cis-1,3-Dichloropropene	8.43	75	69829	20.391	ug/l	96
50) 1,1,2-Trichloroethane	9.21	97	42931	21.410	ug/l	98
51) Ethyl methacrylate	9.18	69	75138	20.277	ug/l	97
52) 1,3-Dichloropropane	9.37	76	74735	21.000	ug/l	100
53) Dibromochloromethane	9.58	129	41020	20.541	ug/l	98
54) 1,2-Dibromoethane	9.67	107	43092	20.954	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	197979	100.264	ug/l	99
56) Bromoform	10.85	173	29828	19.458	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	410951	103.582	ug/l	100
59) 2-Hexanone	9.49	43	319918	102.807	ug/l	100
61) Tetrachloroethene	9.34	164	37512	21.089	ug/l	97
62) Toluene	8.78	91	178470	20.700	ug/l	100
64) Chlorobenzene	10.14	112	105356	20.304	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.22	131	38618	20.326	ug/l	99
66) Ethyl Benzene	10.25	91	196512	20.460	ug/l	99
67) m/p-Xylenes	10.36	106	141929	40.472	ug/l	99
68) o-Xylene	10.70	106	70859	20.550	ug/l	98
69) Styrene	10.71	104	121356	20.048	ug/l	99
70) Isopropylbenzene	11.02	105	189846	20.472	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	70691	20.815	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	60248m	20.586	ug/l	
73) Bromobenzene	11.26	156	45998	20.076	ug/l	99
74) n-propylbenzene	11.36	91	216374	20.135	ug/l	99
75) 2-Chlorotoluene	11.42	91	130517	20.249	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	159386	20.290	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	22107	18.726	ug/l	97
78) 4-Chlorotoluene	11.51	91	145974	19.940	ug/l	99
79) tert-butylbenzene	11.77	119	152597	20.095	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	160051	20.329	ug/l	98
81) sec-Butylbenzene	11.94	105	182739	20.254	ug/l	100
82) p-Isopropyltoluene	12.06	119	165728	20.193	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	81833	19.999	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	81599	20.016	ug/l	98
85) n-Butylbenzene	12.38	91	144238	19.207	ug/l	100
86) Hexachloroethane	12.60	117	26814	19.200	ug/l	95
87) 1,2-Dichlorobenzene	12.39	146	82677	20.072	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	15952	20.213	ug/l	99
89) 1,2,4-Trichlorobenzene	13.65	180	57630	19.630	ug/l	99
90) Hexachlorobutadiene	13.78	225	29684	20.242	ug/l	96
91) Naphthalene	13.83	128	194680	20.254	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	59518	19.944	ug/l	98

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

