

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101619\
 Data File : VX013094.D
 Acq On : 16 Oct 2019 14:14
 Operator : JC/SP
 Sample : VX1016WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX1016WBSD01

Manual Integrations
 APPROVED

MMDadoda
 10/18/2019 4:52:13 PM

Quant Time: Oct 17 03:33:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X101619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 17 03:05:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	31817	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	181006	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	159625	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	71611	29.35	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.83%
60) 4-Bromofluorobenzene	11.13	95	81372	29.12	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.07%
63) Toluene-d8	8.71	98	220797	30.32	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.07%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	39292	18.317	ug/l 100
3) Chloromethane	1.32	50	38688	18.375	ug/l 99
4) Vinyl Chloride	1.40	62	39042	18.589	ug/l 97
5) Bromomethane	1.63	94	23541	23.984	ug/l 98
6) Chloroethane	1.72	64	24752	19.169	ug/l 99
7) Trichlorofluoromethane	1.92	101	56110	18.182	ug/l 96
8) Diethyl Ether	2.18	74	20756	18.276	ug/l 94
9) 1,1,2-Trichlorotrifluoroet	2.37	101	35835	18.421	ug/l 97
10) 1,1-Dichloroethene	2.36	96	35465	18.532	ug/l 95
11) Methyl Iodide	2.50	142	35468	15.154	ug/l 99
12) Methyl Acetate	2.76	43	50576	18.899	ug/l 96
13) Acrolein	2.28	56	35595	92.433	ug/l 98
14) Acrylonitrile	3.13	53	107744	96.457	ug/l 99
15) Acetone	2.43	58	35381	89.472	ug/l 89
16) Carbon Disulfide	2.56	76	92896	17.950	ug/l 99
17) Allyl chloride	2.72	41	59878	18.438	ug/l 94
18) Methylene Chloride	2.85	84	39958	18.353	ug/l 96
19) trans-1,2-Dichloroethene	3.15	96	38859	18.963	ug/l 96
20) Diisopropyl ether	3.84	45	119199	19.131	ug/l 96
21) 1,1-Dichloroethane	3.69	63	67994	18.923	ug/l 99
22) cis-1,2-Dichloroethene	4.59	96	43393	18.426	ug/l 99
23) tert-Butyl Alcohol	3.03	59	53875	95.462	ug/l # 100
24) Methyl tert-Butyl Ether	3.19	73	124730	19.123	ug/l 99
25) Chloroform	5.20	83	69159	18.614	ug/l 93
26) Cyclohexane	5.57	56	60809	18.624	ug/l # 99
29) 1,1-Dichloropropene	5.79	75	51982	18.827	ug/l 99
30) 2-Butanone	4.65	43	154405	94.945	ug/l 99
31) 2,2-Dichloropropane	4.58	77	56257	18.012	ug/l 98
32) 1,1,1-Trichloroethane	5.48	97	60198	18.638	ug/l 98
33) Carbon Tetrachloride	5.78	117	51709	18.661	ug/l 96
34) Benzene	6.14	78	156532	19.097	ug/l 99
35) Methacrylonitrile	5.03	41	30819	19.325	ug/l 92
36) 1,2-Dichloroethane	6.18	62	55774	18.820	ug/l 98
37) Trichloroethene	7.21	130	41428	18.919	ug/l 97
38) Methylcyclohexane	7.46	83	64483	19.083	ug/l 98
39) 1,2-Dichloropropane	7.51	63	39884	19.376	ug/l 97
40) Dibromomethane	7.65	93	26918	19.256	ug/l 95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	50564	18.218	ug/l	99
42) Vinyl Acetate	3.80	43	516005	96.891	ug/l	100
43) Ethyl Acetate	4.82	43	58086	19.847	ug/l	98
44) Isopropyl Acetate	6.43	43	89834	19.034	ug/l	100
45) 1,4-Dioxane	7.73	88	21882	377.237	ug/l	96
46) Methyl methacrylate	7.76	41	43775	18.977	ug/l	85
47) n-amyl Acetate	10.89	43	73312	18.244	ug/l	98
48) t-1,3-Dichloropropene	9.04	75	56006	18.232	ug/l	95
49) cis-1,3-Dichloropropene	8.43	75	62204	18.356	ug/l	97
50) 1,1,2-Trichloroethane	9.21	97	40368	19.135	ug/l	99
51) Ethyl methacrylate	9.17	69	62805	18.928	ug/l	97
52) 1,3-Dichloropropane	9.37	76	67074	18.944	ug/l	99
53) Dibromochloromethane	9.58	129	38358	17.705	ug/l	97
54) 1,2-Dibromoethane	9.67	107	42035	18.943	ug/l	97
55) 2-Chloroethyl vinyl ether	8.31	63	139573	95.616	ug/l	100
56) Bromoform	10.85	173	25949	17.212	ug/l	95
58) 4-Methyl-2-Pentanone	8.64	43	283538	97.621	ug/l	100
59) 2-Hexanone	9.48	43	219286	96.751	ug/l	99
61) Tetrachloroethene	9.33	164	39877	19.608	ug/l	94
62) Toluene	8.78	91	166435	19.186	ug/l	100
64) Chlorobenzene	10.14	112	102666	18.622	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.21	131	38568	19.046	ug/l	99
66) Ethyl Benzene	10.25	91	187708	18.958	ug/l	99
67) m/p-Xylenes	10.35	106	139997	37.583	ug/l	96
68) o-Xylene	10.70	106	69746	19.228	ug/l	96
69) Styrene	10.71	104	116877	18.717	ug/l	99
70) Isopropylbenzene	11.01	105	182959	18.885	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	59820	18.973	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	50154m	19.131	ug/l	
73) Bromobenzene	11.25	156	43435	18.798	ug/l	97
74) n-propylbenzene	11.35	91	203165	18.774	ug/l	100
75) 2-Chlorotoluene	11.42	91	127424	19.221	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	156209	18.948	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	18286	18.023	ug/l	94
78) 4-Chlorotoluene	11.51	91	142902	18.641	ug/l	100
79) tert-butylbenzene	11.77	119	145348	18.742	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	154954	18.847	ug/l	98
81) sec-Butylbenzene	11.94	105	171910	18.402	ug/l	98
82) p-Isopropyltoluene	12.06	119	160534	18.845	ug/l	98
83) 1,3-Dichlorobenzene	12.02	146	76669	18.306	ug/l	96
84) 1,4-Dichlorobenzene	12.09	146	76769	18.224	ug/l	99
85) n-Butylbenzene	12.39	91	131877	18.137	ug/l	98
86) Hexachloroethane	12.59	117	24782	16.788	ug/l	90
87) 1,2-Dichlorobenzene	12.39	146	78704	19.053	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	12.99	75	13113	18.112	ug/l	97
89) 1,2,4-Trichlorobenzene	13.64	180	46328	17.976	ug/l	98
90) Hexachlorobutadiene	13.78	225	22144	18.102	ug/l	97
91) Naphthalene	13.83	128	166711	19.019	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	48430	18.760	ug/l	98

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

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