

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX012420\
 Data File : VX014694.D
 Acq On : 24 Jan 2020 13:58
 Operator : JC/SP
 Sample : VX0124WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX0124WBSD01

Manual Integrations
 APPROVED

MMDadoda
 1/27/2020 10:35:26 AM

Quant Time: Jan 24 22:49:34 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X011520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jan 15 12:41:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	70881	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	382401	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	352671	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	155098	31.13	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.77%
60) 4-Bromofluorobenzene	11.13	95	170030	30.13	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.43%
63) Toluene-d8	8.71	98	482690	30.30	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	98880	20.186	ug/l 98
3) Chloromethane	1.32	50	107107	19.971	ug/l 96
4) Vinyl Chloride	1.40	62	118563	19.689	ug/l 100
5) Bromomethane	1.64	94	68326	18.183	ug/l 99
6) Chloroethane	1.72	64	68565	20.198	ug/l 98
7) Trichlorofluoromethane	1.92	101	131356	19.700	ug/l 99
8) Diethyl Ether	2.18	74	60090	20.632	ug/l 96
9) 1,1,2-Trichlorotrifluoroet	2.37	101	79320	20.333	ug/l 99
10) 1,1-Dichloroethene	2.37	96	75204	19.166	ug/l 93
11) Methyl Iodide	2.50	142	102933	19.561	ug/l 98
12) Methyl Acetate	2.76	43	151773	21.412	ug/l 98
13) Acrolein	2.28	56	65966	88.600	ug/l 99
14) Acrylonitrile	3.13	53	246222	101.518	ug/l 99
15) Acetone	2.43	58	80706	99.256	ug/l 93
16) Carbon Disulfide	2.56	76	200858	18.638	ug/l 98
17) Allyl chloride	2.72	41	141261	19.453	ug/l 95
18) Methylene Chloride	2.85	84	92039	20.042	ug/l 98
19) trans-1,2-Dichloroethene	3.16	96	82924	19.632	ug/l 98
20) Diisopropyl ether	3.84	45	292623	20.367	ug/l 91
21) 1,1-Dichloroethane	3.69	63	156100	19.999	ug/l 99
22) cis-1,2-Dichloroethene	4.58	96	96792	19.941	ug/l 96
23) tert-Butyl Alcohol	3.02	59	102573	102.260	ug/l # 100
24) Methyl tert-Butyl Ether	3.18	73	268562	20.566	ug/l 100
25) Chloroform	5.20	83	150475	19.902	ug/l 96
26) Cyclohexane	5.57	56	140460	19.510	ug/l # 99
29) 1,1-Dichloropropene	5.79	75	113107	20.168	ug/l 99
30) 2-Butanone	4.65	43	368628	103.763	ug/l 100
31) 2,2-Dichloropropane	4.58	77	119740m	19.954	ug/l
32) 1,1,1-Trichloroethane	5.48	97	126193	20.339	ug/l 99
33) Carbon Tetrachloride	5.78	117	107375	20.158	ug/l 99
34) Benzene	6.13	78	351695	20.294	ug/l 98
35) Methacrylonitrile	5.03	41	71775	20.229	ug/l 99
36) 1,2-Dichloroethane	6.18	62	126309	20.944	ug/l 97
37) Trichloroethene	7.21	130	97293	20.504	ug/l 99
38) Methylcyclohexane	7.45	83	140464	20.116	ug/l 99
39) 1,2-Dichloropropane	7.51	63	92575	20.543	ug/l 94
40) Dibromomethane	7.65	93	60590	20.921	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	115490	20.363	ug/l	97
42) Vinyl Acetate	3.80	43	1039935	94.973	ug/l	99
43) Ethyl Acetate	4.82	43	135372	21.050	ug/l	99
44) Isopropyl Acetate	6.43	43	214371	20.663	ug/l	99
45) 1,4-Dioxane	7.73	88	45688	440.249	ug/l	99
46) Methyl methacrylate	7.76	41	104888	20.559	ug/l	99
47) n-amyl Acetate	10.89	43	173966	20.012	ug/l	97
48) t-1,3-Dichloropropene	9.03	75	126536	20.436	ug/l	97
49) cis-1,3-Dichloropropene	8.43	75	142713	20.455	ug/l	97
50) 1,1,2-Trichloroethane	9.21	97	93650	21.251	ug/l	96
51) Ethyl methacrylate	9.17	69	139251	20.294	ug/l	97
52) 1,3-Dichloropropane	9.37	76	157384	21.078	ug/l	100
53) Dibromochloromethane	9.57	129	91909	20.390	ug/l	100
54) 1,2-Dibromoethane	9.67	107	96734	21.165	ug/l	97
55) 2-Chloroethyl vinyl ether	8.30	63	305390	96.842	ug/l	100
56) Bromoform	10.85	173	68706	19.788	ug/l	97
58) 4-Methyl-2-Pentanone	8.63	43	691518	104.123	ug/l	99
59) 2-Hexanone	9.48	43	532717	103.715	ug/l	99
61) Tetrachloroethene	9.33	164	123630	23.717	ug/l	97
62) Toluene	8.78	91	380154	20.317	ug/l	100
64) Chlorobenzene	10.14	112	235902	20.196	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.21	131	87764	20.344	ug/l	100
66) Ethyl Benzene	10.25	91	406071	19.925	ug/l	98
67) m/p-Xylenes	10.36	106	312992	40.094	ug/l	100
68) o-Xylene	10.69	106	150557	19.806	ug/l	98
69) Styrene	10.71	104	254509	19.760	ug/l	98
70) Isopropylbenzene	11.01	105	400727	20.122	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	134654	20.073	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	120982m	21.084	ug/l	
73) Bromobenzene	11.25	156	104180	19.734	ug/l	99
74) n-propylbenzene	11.35	91	462362	20.318	ug/l	99
75) 2-Chlorotoluene	11.42	91	278116	20.392	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	341116	20.556	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	42701	19.335	ug/l	99
78) 4-Chlorotoluene	11.51	91	314374	20.297	ug/l	99
79) tert-butylbenzene	11.76	119	299713	19.303	ug/l	95
80) 1,2,4-Trimethylbenzene	11.80	105	339466	20.510	ug/l	100
81) sec-Butylbenzene	11.94	105	387782	20.183	ug/l	99
82) p-Isopropyltoluene	12.06	119	356936	20.350	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	186392	20.221	ug/l	100
84) 1,4-Dichlorobenzene	12.09	146	185268	20.273	ug/l	99
85) n-Butylbenzene	12.39	91	300718	19.595	ug/l	99
86) Hexachloroethane	12.59	117	61296	19.488	ug/l	96
87) 1,2-Dichlorobenzene	12.39	146	188792	20.298	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	28144	19.640	ug/l	98
89) 1,2,4-Trichlorobenzene	13.64	180	123784	20.163	ug/l	98
90) Hexachlorobutadiene	13.78	225	62891	20.502	ug/l	99
91) Naphthalene	13.83	128	367378	19.825	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	125453	20.077	ug/l	99

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

