

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111119\
 Data File : VX013372.D
 Acq On : 11 Nov 2019 18:26
 Operator : JC/SP
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX111119

Manual Integrations
 APPROVED

MMDadoda
 11/12/2019 11:49:54 AM

Quant Time: Nov 12 01:21:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X111119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 12 01:16:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	125986	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	691860	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	619326	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	264648	28.45	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	94.83%
60) 4-Bromofluorobenzene	11.14	95	297803	29.92	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.73%
63) Toluene-d8	8.71	98	850711	30.38	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.27%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	180702	19.143	ug/l 97
3) Chloromethane	1.31	50	202119	19.646	ug/l 98
4) Vinyl Chloride	1.40	62	219355	18.765	ug/l 98
5) Bromomethane	1.63	94	131346	18.690	ug/l 99
6) Chloroethane	1.72	64	118783	18.485	ug/l 98
7) Trichlorofluoromethane	1.92	101	231131	18.366	ug/l 99
8) Diethyl Ether	2.18	74	105802	18.413	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.37	101	137277	18.131	ug/l 96
10) 1,1-Dichloroethene	2.36	96	143759	18.476	ug/l 99
11) Methyl Iodide	2.50	142	149462	15.557	ug/l 99
12) Methyl Acetate	2.76	43	260126	19.079	ug/l 97
13) Acrolein	2.28	56	126536	87.370	ug/l 100
14) Acrylonitrile	3.13	53	451707	90.095	ug/l 99
15) Acetone	2.43	58	135340	89.129	ug/l 95
16) Carbon Disulfide	2.56	76	422955	19.489	ug/l 100
17) Allyl chloride	2.72	41	260612	18.188	ug/l 98
18) Methylene Chloride	2.84	84	161107	18.249	ug/l 97
19) trans-1,2-Dichloroethene	3.16	96	154423	18.570	ug/l 97
20) Diisopropyl ether	3.84	45	498080	18.068	ug/l 88
21) 1,1-Dichloroethane	3.69	63	276109	18.389	ug/l 99
22) cis-1,2-Dichloroethene	4.59	96	177628	18.736	ug/l 99
23) tert-Butyl Alcohol	3.03	59	218310	90.479	ug/l 100
24) Methyl tert-Butyl Ether	3.18	73	477510	18.543	ug/l 100
25) Chloroform	5.20	83	269708	18.351	ug/l 99
26) Cyclohexane	5.57	56	248344	18.213	ug/l # 99
29) 1,1-Dichloropropene	5.79	75	206881	19.577	ug/l 98
30) 2-Butanone	4.66	43	664832	95.316	ug/l 98
31) 2,2-Dichloropropane	4.57	77	225151	19.673	ug/l 99
32) 1,1,1-Trichloroethane	5.48	97	229405	19.531	ug/l 99
33) Carbon Tetrachloride	5.78	117	195450	19.158	ug/l 93
34) Benzene	6.13	78	624252	19.476	ug/l 99
35) Methacrylonitrile	5.03	41	135286	19.423	ug/l 96
36) 1,2-Dichloroethane	6.18	62	218442	19.470	ug/l 100
37) Trichloroethene	7.21	130	170066	19.805	ug/l 93
38) Methylcyclohexane	7.45	83	248597	19.186	ug/l 99
39) 1,2-Dichloropropane	7.51	63	163740	19.757	ug/l 95
40) Dibromomethane	7.65	93	106519	19.312	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	205838	19.117	ug/l	98
42) Vinyl Acetate	3.80	43	2141742	97.529	ug/l	100
43) Ethyl Acetate	4.82	43	250381	19.682	ug/l	99
44) Isopropyl Acetate	6.43	43	387397	18.944	ug/l	100
45) 1,4-Dioxane	7.73	88	84479	374.182	ug/l	96
46) Methyl methacrylate	7.76	41	191631	18.839	ug/l	96
47) n-amyl Acetate	10.89	43	339193	18.910	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	232212	19.233	ug/l	96
49) cis-1,3-Dichloropropene	8.43	75	254080	19.206	ug/l	96
50) 1,1,2-Trichloroethane	9.21	97	157511	19.299	ug/l	99
51) Ethyl methacrylate	9.17	69	254065	18.906	ug/l	97
52) 1,3-Dichloropropane	9.37	76	270917	19.417	ug/l	99
53) Dibromochloromethane	9.58	129	165399	19.121	ug/l	97
54) 1,2-Dibromoethane	9.67	107	169688	19.443	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	553826	96.454	ug/l	99
56) Bromoform	10.85	173	129700	18.841	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	1249776	96.598	ug/l	99
59) 2-Hexanone	9.48	43	968147	94.575	ug/l	100
61) Tetrachloroethene	9.33	164	148463	19.440	ug/l	98
62) Toluene	8.78	91	672340	19.489	ug/l	100
64) Chlorobenzene	10.14	112	420942	19.515	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.21	131	154908	19.186	ug/l	99
66) Ethyl Benzene	10.25	91	740843	19.548	ug/l	100
67) m/p-Xylenes	10.35	106	567017	38.786	ug/l	100
68) o-Xylene	10.70	106	267573	18.965	ug/l	100
69) Styrene	10.71	104	460445	19.112	ug/l	98
70) Isopropylbenzene	11.01	105	721492	19.407	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	254840	19.144	ug/l	100
72) 1,2,3-Trichloropropane	11.29	75	205644m	18.296	ug/l	
73) Bromobenzene	11.25	156	188962	19.274	ug/l	97
74) n-propylbenzene	11.35	91	817746	19.355	ug/l	100
75) 2-Chlorotoluene	11.42	91	483258	19.235	ug/l	100
76) 1,3,5-Trimethylbenzene	11.50	105	596607	19.092	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	83696	18.416	ug/l	98
78) 4-Chlorotoluene	11.51	91	550696	19.131	ug/l	100
79) tert-butylbenzene	11.76	119	598134	18.971	ug/l	100
80) 1,2,4-Trimethylbenzene	11.81	105	593776	19.068	ug/l	100
81) sec-Butylbenzene	11.94	105	688665	19.144	ug/l	100
82) p-Isopropyltoluene	12.06	119	641590	19.358	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	332393	19.284	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	330805	19.334	ug/l	98
85) n-Butylbenzene	12.39	91	530085	18.531	ug/l	99
86) Hexachloroethane	12.59	117	110190	18.117	ug/l	99
87) 1,2-Dichlorobenzene	12.39	146	326105	18.920	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	56843	19.095	ug/l	95
89) 1,2,4-Trichlorobenzene	13.64	180	226260	19.039	ug/l	99
90) Hexachlorobutadiene	13.78	225	107813	18.932	ug/l	98
91) Naphthalene	13.83	128	727599	19.337	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	229695	19.125	ug/l	99

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

