

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051019\
 Data File : VX009471.D
 Acq On : 10 May 2019 10:06
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 5/11/2019 11:51:51 AM

Quant Time: May 10 15:14:23 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	29316	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	164401	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	146624	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	69757	28.68	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	95.60%
60) 4-Bromofluorobenzene	11.13	95	73453	29.48	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.27%
63) Toluene-d8	8.71	98	206503	29.71	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.03%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	30168	19.366	ug/l 99
3) Chloromethane	1.32	50	43157	20.611	ug/l 98
4) Vinyl Chloride	1.41	62	43603	20.874	ug/l 96
5) Bromomethane	1.64	94	25295	19.104	ug/l 100
6) Chloroethane	1.72	64	27327	19.948	ug/l 98
7) Trichlorofluoromethane	1.93	101	54706	21.209	ug/l 95
8) Diethyl Ether	2.18	74	24908	20.797	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.38	101	34228	21.433	ug/l 100
10) 1,1-Dichloroethene	2.37	96	33802	21.080	ug/l 96
11) Methyl Iodide	2.51	142	31927	18.316	ug/l 99
12) Methyl Acetate	2.77	43	54472	18.036	ug/l 97
13) Acrolein	2.29	56	43531	105.086	ug/l 97
14) Acrylonitrile	3.14	53	129508	98.806	ug/l 99
15) Acetone	2.44	58	42828	113.805	ug/l 99
16) Carbon Disulfide	2.57	76	97541	22.483	ug/l 99
17) Allyl chloride	2.73	41	78478	20.386	ug/l 98
18) Methylene Chloride	2.85	84	41035	21.175	ug/l 97
19) trans-1,2-Dichloroethene	3.17	96	36722	21.479	ug/l 98
20) Diisopropyl ether	3.85	45	155138	20.464	ug/l 92
21) 1,1-Dichloroethane	3.70	63	75715	20.638	ug/l 99
22) cis-1,2-Dichloroethene	4.59	96	43572	21.158	ug/l 99
23) tert-Butyl Alcohol	3.04	59	51830	93.517	ug/l # 100
24) Methyl tert-Butyl Ether	3.19	73	128428	20.466	ug/l 99
25) Chloroform	5.21	83	69690	20.816	ug/l 100
26) Cyclohexane	5.58	56	73676	21.548	ug/l # 97
29) 1,1-Dichloropropene	5.79	75	54060	22.410	ug/l 100
30) 2-Butanone	4.67	43	202845	107.372	ug/l 99
31) 2,2-Dichloropropane	4.58	77	57637	21.673	ug/l 100
32) 1,1,1-Trichloroethane	5.49	97	57806	22.105	ug/l 98
33) Carbon Tetrachloride	5.78	117	47855	21.871	ug/l 97
34) Benzene	6.14	78	165356	22.234	ug/l 99
35) Methacrylonitrile	5.04	41	40681	20.582	ug/l 95
36) 1,2-Dichloroethane	6.19	62	59387	22.007	ug/l 100
37) Trichloroethene	7.21	130	40475	22.608	ug/l 94
38) Methylcyclohexane	7.46	83	68732	23.062	ug/l 99
39) 1,2-Dichloropropane	7.51	63	45656	21.558	ug/l 97
40) Dibromomethane	7.66	93	26349	21.920	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	52770	21.492	ug/l	97
42) Vinyl Acetate	3.81	43	685275	109.904	ug/l	99
43) Ethyl Acetate	4.82	43	71501	20.945	ug/l	98
44) Isopropyl Acetate	6.44	43	114322	20.672	ug/l	98
45) 1,4-Dioxane	7.74	88	22274	410.238	ug/l	97
46) Methyl methacrylate	7.77	41	57623	20.876	ug/l	98
47) n-amyl Acetate	10.90	43	101304	20.335	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	59303	20.700	ug/l	98
49) cis-1,3-Dichloropropene	8.43	75	67794	21.556	ug/l	97
50) 1,1,2-Trichloroethane	9.21	97	39650	21.530	ug/l	96
51) Ethyl methacrylate	9.18	69	71321	20.957	ug/l	96
52) 1,3-Dichloropropane	9.37	76	71510	21.879	ug/l	99
53) Dibromochloromethane	9.58	129	38895	21.207	ug/l	99
54) 1,2-Dibromoethane	9.67	107	41265	21.848	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	198763	109.604	ug/l	99
56) Bromoform	10.85	173	28858	20.497	ug/l	98
58) 4-Methyl-2-Pentanone	8.64	43	375600	104.180	ug/l	100
59) 2-Hexanone	9.49	43	292381	103.395	ug/l	100
61) Tetrachloroethene	9.34	164	37469	23.181	ug/l	97
62) Toluene	8.78	91	174946	22.329	ug/l	100
64) Chlorobenzene	10.13	112	104464	22.154	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.22	131	37331	21.622	ug/l	99
66) Ethyl Benzene	10.25	91	193243	22.140	ug/l	97
67) m/p-Xylenes	10.35	106	141529	44.412	ug/l	100
68) o-Xylene	10.69	106	68695	21.923	ug/l	99
69) Styrene	10.71	104	120157	21.844	ug/l	99
70) Isopropylbenzene	11.02	105	186321	22.110	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	64640	20.945	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	57970m	21.797	ug/l	
73) Bromobenzene	11.26	156	45207	21.712	ug/l	99
74) n-propylbenzene	11.36	91	217899	22.313	ug/l	100
75) 2-Chlorotoluene	11.42	91	129204	22.058	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	158388	22.188	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	20974	19.551	ug/l	94
78) 4-Chlorotoluene	11.51	91	147645	22.194	ug/l	99
79) tert-butylbenzene	11.77	119	150911	21.869	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	157957	22.078	ug/l	100
81) sec-Butylbenzene	11.94	105	182970	22.317	ug/l	100
82) p-Isopropyltoluene	12.06	119	166147	22.278	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	81668	21.963	ug/l	100
84) 1,4-Dichlorobenzene	12.10	146	81502	22.000	ug/l	99
85) n-Butylbenzene	12.38	91	150046	21.987	ug/l	100
86) Hexachloroethane	12.59	117	26107	20.572	ug/l	93
87) 1,2-Dichlorobenzene	12.39	146	80823	21.593	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.00	75	14598	20.355	ug/l	98
89) 1,2,4-Trichlorobenzene	13.65	180	59464	22.289	ug/l	99
90) Hexachlorobutadiene	13.78	225	30919	23.202	ug/l	98
91) Naphthalene	13.83	128	188412	21.570	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	61123	22.539	ug/l	99

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

