

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032219\
 Data File : VX008338.D
 Acq On : 22 Mar 2019 14:59
 Operator : JC/SP
 Sample : VX0322WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0322WBS01

Manual Integrations
 APPROVED

MMDadoda
 3/23/2019 9:33:28 AM

Quant Time: Mar 22 15:46:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 22 15:33:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	32409	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	173769	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	149827	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	68771	31.05	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.50%
60) 4-Bromofluorobenzene	11.13	95	75324	30.89	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	102.97%
63) Toluene-d8	8.71	98	210399	31.17	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	34861	20.048 ug/l	96
3) Chloromethane	1.33	50	35479	19.955 ug/l	98
4) Vinyl Chloride	1.41	62	40288	20.105 ug/l	99
5) Bromomethane	1.65	94	30858	8.495 ug/l	97
6) Chloroethane	1.73	64	26988	18.950 ug/l	98
7) Trichlorofluoromethane	1.93	101	62173	19.490 ug/l	100
8) Diethyl Ether	2.19	74	24061	19.448 ug/l	100
9) 1,1,2-Trichlorotrifluoroet	2.39	101	34699	19.668 ug/l	99
10) 1,1-Dichloroethene	2.38	96	34731	19.944 ug/l	91
11) Methyl Iodide	2.52	142	50450	19.165 ug/l	92
12) Methyl Acetate	2.78	43	38602	20.315 ug/l	97
13) Acrolein	2.29	56	33948	114.041 ug/l	98
14) Acrylonitrile	3.15	53	96705	102.548 ug/l	98
15) Acetone	2.45	58	30763	83.190 ug/l	98
16) Carbon Disulfide	2.57	76	96591	20.005 ug/l	99
17) Allyl chloride	2.73	41	50052	19.478 ug/l	91
18) Methylene Chloride	2.86	84	38336	20.450 ug/l	98
19) trans-1,2-Dichloroethene	3.17	96	37057	20.047 ug/l	97
20) Diisopropyl ether	3.86	45	108700	20.231 ug/l	90
21) 1,1-Dichloroethane	3.70	63	63730	20.084 ug/l	100
22) cis-1,2-Dichloroethene	4.60	96	42805	20.077 ug/l	95
23) tert-Butyl Alcohol	3.04	59	38596	100.817 ug/l	100
24) Methyl tert-Butyl Ether	3.20	73	112344	20.081 ug/l	97
25) Chloroform	5.22	83	69045	20.512 ug/l	95
26) Cyclohexane	5.59	56	56929	20.286 ug/l	# 99
29) 1,1-Dichloropropene	5.81	75	49835	20.192 ug/l	97
30) 2-Butanone	4.67	43	136228	95.830 ug/l	97
31) 2,2-Dichloropropane	4.58	77	44565	19.179 ug/l	98
32) 1,1,1-Trichloroethane	5.50	97	58250	20.059 ug/l	97
33) Carbon Tetrachloride	5.79	117	51426	19.283 ug/l	99
34) Benzene	6.15	78	151539	20.613 ug/l	98
35) Methacrylonitrile	5.04	41	26638	20.117 ug/l	95
36) 1,2-Dichloroethane	6.20	62	55205	20.373 ug/l	98
37) Trichloroethene	7.21	130	42708	19.758 ug/l	90
38) Methylcyclohexane	7.46	83	59305	19.173 ug/l	98
39) 1,2-Dichloropropane	7.51	63	38172	20.406 ug/l	100
40) Dibromomethane	7.66	93	28049	20.444 ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	7.90	83	52633	20.217	ug/l #	97
42) Vinyl Acetate	3.82	43	480637	100.593	ug/l	98
43) Ethyl Acetate	4.84	43	51285	20.438	ug/l #	85
44) Isopropyl Acetate	6.45	43	78865	19.971	ug/l	98
45) 1,4-Dioxane	7.74	88	19968	402.022	ug/l	98
46) Methyl methacrylate	7.77	41	40023	20.655	ug/l	99
47) n-amyl Acetate	10.90	43	65344	19.300	ug/l	98
48) t-1,3-Dichloropropene	9.04	75	49337	18.928	ug/l	98
49) cis-1,3-Dichloropropene	8.43	75	57143	19.646	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	40577	20.587	ug/l	94
51) Ethyl methacrylate	9.18	69	59582	20.706	ug/l	97
52) 1,3-Dichloropropane	9.37	76	63890	20.212	ug/l	100
53) Dibromochloromethane	9.58	129	43687	19.662	ug/l	100
54) 1,2-Dibromoethane	9.67	107	43377	20.058	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	142019	98.097	ug/l	99
56) Bromoform	10.85	173	32602	18.586	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	260152	103.127	ug/l	96
59) 2-Hexanone	9.49	43	199238	99.843	ug/l	97
61) Tetrachloroethene	9.33	164	42101	20.875	ug/l	98
62) Toluene	8.79	91	164315	20.661	ug/l	99
64) Chlorobenzene	10.14	112	105965	20.668	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.22	131	40084	20.470	ug/l	99
66) Ethyl Benzene	10.25	91	174499	20.289	ug/l	99
67) m/p-Xylenes	10.36	106	138923	40.640	ug/l	100
68) o-Xylene	10.69	106	65706	20.009	ug/l	98
69) Styrene	10.71	104	110871	19.999	ug/l	97
70) Isopropylbenzene	11.02	105	175823	20.350	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	61516	20.880	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	51261m	21.600	ug/l	
73) Bromobenzene	11.26	156	47558	19.895	ug/l	97
74) n-propylbenzene	11.36	91	190775	19.810	ug/l	99
75) 2-Chlorotoluene	11.42	91	117972	20.513	ug/l	98
76) 1,3,5-Trimethylbenzene	11.51	105	150460	20.385	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	15838	18.838	ug/l	94
78) 4-Chlorotoluene	11.51	91	133778	19.764	ug/l	97
79) tert-butylbenzene	12.06	119	156115	20.108	ug/l	98
80) 1,2,4-Trimethylbenzene	11.80	105	148542	20.253	ug/l	100
81) sec-Butylbenzene	11.94	105	165518	19.661	ug/l	98
82) p-Isopropyltoluene	12.06	119	156115	20.108	ug/l	98
83) 1,3-Dichlorobenzene	12.02	146	80401	19.378	ug/l	96
84) 1,4-Dichlorobenzene	12.10	146	80468	19.476	ug/l	97
85) n-Butylbenzene	12.38	91	126917	19.004	ug/l	100
86) Hexachloroethane	12.60	117	24881	18.595	ug/l	93
87) 1,2-Dichlorobenzene	12.39	146	81885	20.012	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.00	75	12992	19.264	ug/l	96
89) 1,2,4-Trichlorobenzene	13.65	180	54887	18.953	ug/l	99
90) Hexachlorobutadiene	13.78	225	27755	19.039	ug/l	100
91) Naphthalene	13.83	128	171596	19.729	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	56578	19.325	ug/l	98

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

