

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX030819\
 Data File : VX007920.D
 Acq On : 08 Mar 2019 09:54
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 3/11/2019 9:30:42 AM

Quant Time: Mar 08 12:12:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X030819W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 08 11:07:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	44796	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	240202	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	218382	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	89695	30.95	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.17%
60) 4-Bromofluorobenzene	11.13	95	103391	30.85	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	102.83%
63) Toluene-d8	8.71	98	298181	30.21	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.70%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	14373	6.336 ug/l	100
3) Chloromethane	1.33	50	18025	7.230 ug/l	95
4) Vinyl Chloride	1.41	62	17893	6.381 ug/l	99
5) Bromomethane	1.64	94	9351	3.734 ug/l	99
6) Chloroethane	1.73	64	10978	5.759 ug/l	98
7) Trichlorofluoromethane	1.93	101	23390	5.321 ug/l	95
8) Diethyl Ether	2.19	74	9643	5.492 ug/l	85
9) 1,1,2-Trichlorotrifluoroet	2.39	101	14832	5.980 ug/l	98
10) 1,1-Dichloroethene	2.38	96	13450	5.465 ug/l	97
11) Methyl Iodide	2.51	142	18831	5.324 ug/l	92
12) Methyl Acetate	2.78	43	25424	7.491 ug/l	98
13) Acrolein	2.29	56	14803	25.004 ug/l	97
14) Acrylonitrile	3.15	53	45939	29.377 ug/l	99
15) Acetone	2.45	58	17359	40.903 ug/l	99
16) Carbon Disulfide	2.57	76	40923	6.270 ug/l	99
17) Allyl chloride	2.73	41	27139	6.436 ug/l	98
18) Methylene Chloride	2.86	84	16822	6.078 ug/l	97
19) trans-1,2-Dichloroethene	3.17	96	14520	5.516 ug/l	99
20) Diisopropyl ether	3.87	45	51201	6.425 ug/l	96
21) 1,1-Dichloroethane	3.70	63	28291	6.333 ug/l	98
22) cis-1,2-Dichloroethene	4.60	96	16665	5.689 ug/l	90
23) tert-Butyl Alcohol	3.06	59	18249	27.764 ug/l	# 100
24) Methyl tert-Butyl Ether	3.20	73	47141	5.520 ug/l	96
25) Chloroform	5.21	83	26888	5.699 ug/l	92
26) Cyclohexane	5.57	56	24888	6.644 ug/l	# 92
29) 1,1-Dichloropropene	5.80	75	19784	5.905 ug/l	97
30) 2-Butanone	4.70	43	67797	34.192 ug/l	97
31) 2,2-Dichloropropane	4.58	77	17686	6.497 ug/l	99
32) 1,1,1-Trichloroethane	5.49	97	20985	5.240 ug/l	97
33) Carbon Tetrachloride	5.78	117	18304	5.170 ug/l	94
34) Benzene	6.14	78	62378	5.906 ug/l	97
35) Methacrylonitrile	5.06	41	13389	6.494 ug/l	91
36) 1,2-Dichloroethane	6.20	62	21059	5.859 ug/l	98
37) Trichloroethene	7.21	130	16965	5.586 ug/l	100
38) Methylcyclohexane	7.46	83	24797	6.393 ug/l	93
39) 1,2-Dichloropropane	7.51	63	15991	6.087 ug/l	98
40) Dibromomethane	7.66	93	10327	5.443 ug/l	93

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

41) Bromodichloromethane	7.90	83	18388	5.461	ug/l	99
42) Vinyl Acetate	3.82	43	205270	29.576	ug/l	96
43) Ethyl Acetate	4.85	43	24150m	6.360	ug/l	
44) Isopropyl Acetate	6.46	43	33991	5.798	ug/l	98
45) 1,4-Dioxane	7.75	88	7227	104.449	ug/l #	85
46) Methyl methacrylate	7.77	41	18132	6.108	ug/l	88
47) n-amyl Acetate	10.90	43	29121	5.635	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	17265	4.967	ug/l	96
49) cis-1,3-Dichloropropene	8.43	75	20948	5.412	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	16369	5.917	ug/l	96
51) Ethyl methacrylate	9.18	69	22135	5.519	ug/l	93
52) 1,3-Dichloropropane	9.37	76	26088	5.846	ug/l	100
53) Dibromochloromethane	9.58	129	14584	5.068	ug/l	99
54) 1,2-Dibromoethane	9.67	107	16002	5.282	ug/l	100
55) 2-Chloroethyl vinyl ether	8.31	63	55281	27.109	ug/l	99
56) Bromoform	10.85	173	11307	5.209	ug/l #	97
58) 4-Methyl-2-Pentanone	8.65	43	111678	28.431	ug/l	99
59) 2-Hexanone	9.49	43	89407	29.966	ug/l	97
61) Tetrachloroethene	9.34	164	17749	5.725	ug/l	96
62) Toluene	8.78	91	66283	5.573	ug/l	99
64) Chlorobenzene	10.13	112	42562	5.507	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	14253	5.091	ug/l	98
66) Ethyl Benzene	10.25	91	69740	5.526	ug/l	99
67) m/p-Xylenes	10.36	106	53116	10.730	ug/l	95
68) o-Xylene	10.69	106	25823	5.349	ug/l	96
69) Styrene	10.71	104	41513	5.328	ug/l	98
70) Isopropylbenzene	11.02	105	70283	5.518	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.27	83	23777	5.647	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	21977m	5.709	ug/l	
73) Bromobenzene	11.26	156	18926	5.442	ug/l	93
74) n-propylbenzene	11.36	91	78635	5.560	ug/l	98
75) 2-Chlorotoluene	11.42	91	48742	5.764	ug/l	95
76) 1,3,5-Trimethylbenzene	11.51	105	57895	5.568	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	4998	4.498	ug/l	93
78) 4-Chlorotoluene	11.51	91	52614	5.451	ug/l	97
79) tert-butylbenzene	12.06	119	60504	5.480	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	58317	5.525	ug/l	98
81) sec-Butylbenzene	11.94	105	69741	5.617	ug/l	99
82) p-Isopropyltoluene	12.06	119	60504	5.480	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	33751	5.521	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	33663	5.518	ug/l	98
85) n-Butylbenzene	12.38	91	49873	5.444	ug/l	99
86) Hexachloroethane	12.60	117	9175	5.005	ug/l	80
87) 1,2-Dichlorobenzene	12.39	146	33556	5.469	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	4173	4.749	ug/l	99
89) 1,2,4-Trichlorobenzene	13.65	180	22207	5.510	ug/l	99
90) Hexachlorobutadiene	13.78	225	13015	6.912	ug/l	97
91) Naphthalene	13.83	128	59747	4.649	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	22182	5.415	ug/l	99

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

