

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032719\
 Data File : VX008472.D
 Acq On : 27 Mar 2019 10:30
 Operator : JC/SP
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 3/28/2019 9:36:57 AM

Quant Time: Mar 27 11:33:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032719W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Mar 27 11:27:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	39216	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	228993	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	199845	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	99628	37.18	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	123.93%
60) 4-Bromofluorobenzene	11.13	95	103843	31.92	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	106.40%
63) Toluene-d8	8.71	98	293662	32.61	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	108.70%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	53841	25.588	ug/l 97
3) Chloromethane	1.32	50	71199	33.094	ug/l 97
4) Vinyl Chloride	1.40	62	70297	28.991	ug/l 97
5) Bromomethane	1.64	94	33423	7.604	ug/l 96
6) Chloroethane	1.72	64	43484	25.233	ug/l 99
7) Trichlorofluoromethane	1.93	101	78642	20.374	ug/l 98
8) Diethyl Ether	2.19	74	37477	25.034	ug/l 81
9) 1,1,2-Trichlorotrifluoroet	2.39	101	47709	22.349	ug/l 92
10) 1,1-Dichloroethene	2.37	96	49111	23.307	ug/l 84
11) Methyl Iodide	2.51	142	46249	14.519	ug/l 97
12) Methyl Acetate	3.19	43	40206	17.486	ug/l 90
13) Acrolein	2.29	56	56176	155.956	ug/l 99
14) Acrylonitrile	3.14	53	183800	161.075	ug/l 99
15) Acetone	2.44	58	63135	141.096	ug/l 92
16) Carbon Disulfide	2.57	76	151102	25.862	ug/l 99
17) Allyl chloride	2.73	41	107995	34.732	ug/l 91
18) Methylene Chloride	2.85	84	59159	26.081	ug/l 89
19) trans-1,2-Dichloroethene	3.17	96	52284	23.374	ug/l 89
20) Diisopropyl ether	3.85	45	214918	33.057	ug/l # 88
21) 1,1-Dichloroethane	3.70	63	108244	28.191	ug/l 96
22) cis-1,2-Dichloroethene	4.60	96	59892	23.215	ug/l # 81
23) tert-Butyl Alcohol	3.04	59	73780	159.269	ug/l # 100
24) Methyl tert-Butyl Ether	3.19	73	180727	26.697	ug/l 98
25) Chloroform	5.21	83	98870	24.274	ug/l 95
26) Cyclohexane	5.58	56	103218	30.396	ug/l # 84
29) 1,1-Dichloropropene	5.80	75	75537	23.225	ug/l 94
30) 2-Butanone	4.67	43	291212	155.451	ug/l 95
31) 2,2-Dichloropropane	4.59	77	74824	24.435	ug/l 95
32) 1,1,1-Trichloroethane	5.49	97	78638	20.549	ug/l # 94
33) Carbon Tetrachloride	5.79	117	65078	18.517	ug/l 97
34) Benzene	6.14	78	233926	24.146	ug/l # 96
35) Methacrylonitrile	5.04	41	55751	31.949	ug/l 92
36) 1,2-Dichloroethane	6.19	62	83341	23.339	ug/l 97
37) Trichloroethene	7.21	130	52484	18.425	ug/l 82
38) Methylcyclohexane	7.46	83	94502	23.184	ug/l 88
39) 1,2-Dichloropropane	7.51	63	66193	26.851	ug/l 100
40) Dibromomethane	7.66	93	37752	20.880	ug/l 88

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

41) Bromodichloromethane	7.90	83	73966	21.559	ug/l	99
42) Vinyl Acetate	3.81	43	955715	151.785	ug/l #	94
43) Ethyl Acetate	4.83	43	103332	31.249	ug/l #	83
44) Isopropyl Acetate	6.45	43	161415	31.018	ug/l	98
45) 1,4-Dioxane	7.74	88	33196	507.167	ug/l #	83
46) Methyl methacrylate	7.77	41	81573	31.946	ug/l	87
47) n-amyl Acetate	10.90	43	141276	31.665	ug/l	93
48) t-1,3-Dichloropropene	9.04	75	79931	23.270	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	92347	24.093	ug/l	95
50) 1,1,2-Trichloroethane	9.21	97	55124	21.223	ug/l	98
51) Ethyl methacrylate	9.18	69	101532	26.775	ug/l	93
52) 1,3-Dichloropropane	9.37	76	101136	24.278	ug/l	99
53) Dibromochloromethane	9.58	129	53345	18.219	ug/l	100
54) 1,2-Dibromoethane	9.67	107	57625	20.221	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	239471	125.520	ug/l #	94
56) Bromoform	10.85	173	37500	16.223	ug/l #	98
58) 4-Methyl-2-Pentanone	8.64	43	526074	156.347	ug/l	96
59) 2-Hexanone	9.49	43	430160	161.612	ug/l	97
61) Tetrachloroethene	9.34	164	43700	16.245	ug/l	97
62) Toluene	8.78	91	242812	22.890	ug/l	100
64) Chlorobenzene	10.13	112	139720	20.431	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.22	131	48583	18.601	ug/l	98
66) Ethyl Benzene	10.25	91	266843	23.260	ug/l	94
67) m/p-Xylenes	10.36	106	193932	42.533	ug/l	90
68) o-Xylene	10.69	106	95276	21.752	ug/l	93
69) Styrene	10.71	104	162036	21.912	ug/l	96
70) Isopropylbenzene	11.02	105	248779	21.588	ug/l	95
71) 1,1,2,2-Tetrachloroethane	11.27	83	93473	23.787	ug/l	97
72) 1,2,3-Trichloropropane	11.29	75	81505m	25.748	ug/l	
73) Bromobenzene	11.26	156	58289	18.281	ug/l	77
74) n-propylbenzene	11.36	91	294475	22.925	ug/l	94
75) 2-Chlorotoluene	11.42	91	176212	22.971	ug/l	89
76) 1,3,5-Trimethylbenzene	11.51	105	211387	21.472	ug/l	96
77) t-1,4-Dichloro-2-butene	11.07	75	27447	24.476	ug/l	98
78) 4-Chlorotoluene	11.51	91	198034	21.935	ug/l	91
79) tert-butylbenzene	12.06	119	216093	20.867	ug/l	96
80) 1,2,4-Trimethylbenzene	11.80	105	210550	21.523	ug/l	95
81) sec-Butylbenzene	11.94	105	241402	21.498	ug/l	96
82) p-Isopropyltoluene	12.06	119	216093	20.867	ug/l	96
83) 1,3-Dichlorobenzene	12.02	146	102298	18.485	ug/l	95
84) 1,4-Dichlorobenzene	12.10	146	101783	18.469	ug/l	96
85) n-Butylbenzene	12.38	91	199954	22.447	ug/l	97
86) Hexachloroethane	12.60	117	34553	19.360	ug/l	96
87) 1,2-Dichlorobenzene	12.39	146	103671	18.995	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	12.99	75	20767	23.085	ug/l #	75
89) 1,2,4-Trichlorobenzene	13.65	180	70184	18.170	ug/l	98
90) Hexachlorobutadiene	13.78	225	34531	17.758	ug/l	99
91) Naphthalene	13.83	128	256771	22.133	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	73394	18.795	ug/l	99

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

