

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032620\
 Data File : VX015353.D
 Acq On : 26 Mar 2020 11:21
 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

apatel
 3/27/2020 5:59:43 PM

Quant Time: Mar 27 07:58:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 26 02:31:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	250093	30.00	ug/l	-0.01
28) 1,4-Difluorobenzene	6.83	114	1419494	30.00	ug/l	-0.01
57) Chlorobenzene-d5	10.10	117	1301737	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	574960	29.42	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.07%
60) 4-Bromofluorobenzene	11.12	95	666793	29.93	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.77%
63) Toluene-d8	8.70	98	1651039	29.85	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.50%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	229033	19.177	ug/l 99
3) Chloromethane	1.31	50	280720	19.045	ug/l 98
4) Vinyl Chloride	1.39	62	284560	20.068	ug/l 99
5) Bromomethane	1.63	94	186982	24.770	ug/l 99
6) Chloroethane	1.71	64	180680	20.424	ug/l 98
7) Trichlorofluoromethane	1.92	101	415670	20.512	ug/l 99
8) Diethyl Ether	2.17	74	163987	21.033	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	2.37	101	283562	21.151	ug/l 98
10) 1,1-Dichloroethene	2.36	96	274341	20.146	ug/l 97
11) Methyl Iodide	2.49	142	376642	20.813	ug/l 98
12) Methyl Acetate	2.75	43	400093	20.079	ug/l 98
13) Acrolein	2.27	56	234884	90.611	ug/l 89
14) Acrylonitrile	3.11	53	853623	100.063	ug/l 99
15) Acetone	2.42	58	249111	114.839	ug/l 88
16) Carbon Disulfide	2.55	76	815965	20.497	ug/l 99
17) Allyl chloride	2.70	41	614536	19.988	ug/l 99
18) Methylene Chloride	2.83	84	308688	20.190	ug/l 97
19) trans-1,2-Dichloroethene	3.14	96	299487	20.330	ug/l 99
20) Diisopropyl ether	3.82	45	1112977	20.184	ug/l 97
21) 1,1-Dichloroethane	3.67	63	561833	19.960	ug/l 99
22) cis-1,2-Dichloroethene	4.56	96	343020	20.213	ug/l 98
23) tert-Butyl Alcohol	3.01	59	429437	102.341	ug/l # 100
24) Methyl tert-Butyl Ether	3.17	73	1028510	20.342	ug/l 100
25) Chloroform	5.17	83	561390	20.177	ug/l 98
26) Cyclohexane	5.54	56	538917	20.038	ug/l # 100
29) 1,1-Dichloropropene	5.77	75	430140	20.169	ug/l 100
30) 2-Butanone	4.63	43	1323204	103.501	ug/l 99
31) 2,2-Dichloropropane	4.55	77	545062	21.239	ug/l 99
32) 1,1,1-Trichloroethane	5.46	97	526120	20.220	ug/l 99
33) Carbon Tetrachloride	5.75	117	479028	20.202	ug/l 97
34) Benzene	6.11	78	1230795	20.024	ug/l 98
35) Methacrylonitrile	5.00	41	282870	19.512	ug/l 96
36) 1,2-Dichloroethane	6.16	62	474987	19.999	ug/l 98
37) Trichloroethene	7.18	130	357287	20.644	ug/l 99
38) Methylcyclohexane	7.44	83	540889	20.689	ug/l 98
39) 1,2-Dichloropropane	7.49	63	329414	19.953	ug/l 98
40) Dibromomethane	7.64	93	216618	19.712	ug/l 96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.87	83	471383	19.738	ug/l	98
42) Vinyl Acetate	3.78	43	5040930	104.064	ug/l	100
43) Ethyl Acetate	4.79	43	518317	18.638	ug/l	98
44) Isopropyl Acetate	6.41	43	882631	19.722	ug/l	99
45) 1,4-Dioxane	7.72	88	173640	421.159	ug/l	98
46) Methyl methacrylate	7.75	41	441079	19.750	ug/l	99
47) n-amyl Acetate	10.88	43	755733	19.584	ug/l	99
48) t-1,3-Dichloropropene	9.02	75	553716	20.084	ug/l	100
49) cis-1,3-Dichloropropene	8.42	75	579444	20.362	ug/l	97
50) 1,1,2-Trichloroethane	9.20	97	315546	20.009	ug/l	99
51) Ethyl methacrylate	9.16	69	535610	19.748	ug/l	98
52) 1,3-Dichloropropane	9.36	76	549712	20.181	ug/l	99
53) Dibromochloromethane	9.56	129	398741	20.511	ug/l	99
54) 1,2-Dibromoethane	9.65	107	345151	20.397	ug/l	100
55) 2-Chloroethyl vinyl ether	8.29	63	1284602	100.281	ug/l	100
56) Bromoform	10.84	173	334692	20.938	ug/l #	96
58) 4-Methyl-2-Pentanone	8.62	43	2522990	101.270	ug/l	100
59) 2-Hexanone	9.47	43	1976264	104.270	ug/l	99
61) Tetrachloroethene	9.32	164	358742	21.440	ug/l	99
62) Toluene	8.76	91	1339750	20.320	ug/l	98
64) Chlorobenzene	10.12	112	861199	20.315	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.20	131	350156	20.214	ug/l	99
66) Ethyl Benzene	10.23	91	1551344	20.596	ug/l	99
67) m/p-Xylenes	10.34	106	1170325	41.051	ug/l	99
68) o-Xylene	10.68	106	574552	20.618	ug/l	98
69) Styrene	10.70	104	992863	20.450	ug/l	100
70) Isopropylbenzene	11.00	105	1538955	20.832	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.25	83	467944	19.544	ug/l	99
72) 1,2,3-Trichloropropane	11.28	75	385790m	17.220	ug/l	
73) Bromobenzene	11.24	156	411390	20.746	ug/l	96
74) n-propylbenzene	11.34	91	1774842	20.946	ug/l	99
75) 2-Chlorotoluene	11.40	91	1054459	20.461	ug/l	97
76) 1,3,5-Trimethylbenzene	11.49	105	1320418	20.814	ug/l	98
77) t-1,4-Dichloro-2-butene	11.06	75	187256	19.396	ug/l	94
78) 4-Chlorotoluene	11.50	91	1228323	20.603	ug/l	98
79) tert-butylbenzene	11.76	119	1326716	20.925	ug/l	99
80) 1,2,4-Trimethylbenzene	11.79	105	1335179	20.776	ug/l	100
81) sec-Butylbenzene	11.93	105	1527245	20.998	ug/l	100
82) p-Isopropyltoluene	12.05	119	1439652	21.001	ug/l	99
83) 1,3-Dichlorobenzene	12.01	146	738419	20.709	ug/l	98
84) 1,4-Dichlorobenzene	12.08	146	738979	20.767	ug/l	98
85) n-Butylbenzene	12.37	91	1284136	21.016	ug/l	98
86) Hexachloroethane	12.58	117	267604	20.198	ug/l	91
87) 1,2-Dichlorobenzene	12.38	146	717542	20.626	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.98	75	119357	18.926	ug/l	92
89) 1,2,4-Trichlorobenzene	13.63	180	582894	20.800	ug/l	99
90) Hexachlorobutadiene	13.77	225	336680	22.806	ug/l	98
91) Naphthalene	13.82	128	1651208	20.348	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	575024	20.656	ug/l	99

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

