

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX052518\
 Data File : VX001957.D
 Acq On : 24 May 2018 22:58
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 5/29/2018 4:39:10 PM

Quant Time: May 25 02:05:51 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X052518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 25 01:52:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	67768	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	373402	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	334401	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.08	65	157174	31.54	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	105.13%
60) 4-Bromofluorobenzene	11.14	95	168474	31.48	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	104.93%
63) Toluene-d8	8.72	98	446597	30.01	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.03%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	68421	21.295	ug/l 100
3) Chloromethane	1.32	50	81293	22.246	ug/l 100
4) Vinyl Chloride	1.40	62	81674	21.618	ug/l 100
5) Bromomethane	1.64	94	48485	26.081	ug/l 100
6) Chloroethane	1.73	64	48822	19.820	ug/l 100
7) Trichlorofluoromethane	1.93	101	127004	22.988	ug/l 100
8) Diethyl Ether	2.19	74	47078	20.202	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.39	101	68007	22.421	ug/l 100
10) 1,1-Dichloroethene	2.37	96	65464	21.067	ug/l 100
11) Methyl Iodide	2.51	142	96662	21.035	ug/l 100
12) Methyl Acetate	2.78	43	104137	19.953	ug/l 100
13) Acrolein	2.30	56	43127	75.702	ug/l 100
14) Acrylonitrile	3.15	53	216418	102.858	ug/l 100
15) Acetone	2.45	58	58118	102.881	ug/l 100
16) Carbon Disulfide	2.57	76	183728	23.043	ug/l 100
17) Allyl chloride	2.73	41	136406	22.530	ug/l 100
18) Methylene Chloride	2.86	84	73329	20.179	ug/l 100
19) trans-1,2-Dichloroethene	3.17	96	68772	20.500	ug/l 100
20) Diisopropyl ether	3.89	45	255573	22.468	ug/l 100
21) 1,1-Dichloroethane	3.70	63	137540	21.470	ug/l 100
22) cis-1,2-Dichloroethene	4.60	96	80542	21.052	ug/l 100
23) tert-Butyl Alcohol	3.08	59	113797	116.890	ug/l # 100
24) Methyl tert-Butyl Ether	3.21	73	255719	22.275	ug/l 100
25) Chloroform	5.23	83	142542	21.510	ug/l 100
26) Cyclohexane	5.58	56	125672	25.518	ug/l # 100
29) 1,1-Dichloropropene	5.81	75	101463	21.659	ug/l 100
30) 2-Butanone	4.72	43	358557	114.054	ug/l 100
31) 2,2-Dichloropropane	4.59	77	92690	22.678	ug/l 100
32) 1,1,1-Trichloroethane	5.51	97	132789	22.177	ug/l 100
33) Carbon Tetrachloride	5.79	117	121952	22.852	ug/l 100
34) Benzene	6.15	78	309786	20.871	ug/l 100
35) Methacrylonitrile	5.07	41	77785	22.770	ug/l 100
36) 1,2-Dichloroethane	6.21	62	121648	20.807	ug/l 100
37) Trichloroethene	7.22	130	88326	20.357	ug/l 100
38) Methylcyclohexane	7.46	83	118174	23.147	ug/l 100
39) 1,2-Dichloropropane	7.52	63	83730	22.096	ug/l 100
40) Dibromomethane	7.67	93	56353	21.087	ug/l 100

Data Path : W:\HPCHEM1\MSVOA X\DATA\X052518\
 Data File : VX001957.D
 Acq On : 24 May 2018 22:58
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 5/29/2018 4:39:10 PM

Quant Time: May 25 02:05:51 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X052518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 25 01:52:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.91	83	116155	22.539	ug/l	100
42) Vinyl Acetate	3.83	43	1155077	111.677	ug/l	100
43) Ethyl Acetate	4.87	43	141201	23.359	ug/l	100
44) Isopropyl Acetate	6.48	43	232725	24.548	ug/l	100
45) 1,4-Dioxane	7.76	88	44094	417.732	ug/l	100
46) Methyl methacrylate	7.79	41	117538	23.399	ug/l	100
47) n-amyl Acetate	10.90	43	208073	25.042	ug/l #	91
48) t-1,3-Dichloropropene	8.45	75	129965	22.714	ug/l	100
49) cis-1,3-Dichloropropene	9.05	75	124023	24.006	ug/l	100
50) 1,1,2-Trichloroethane	9.22	97	78857	20.230	ug/l	100
51) Ethyl methacrylate	9.19	69	137734	23.182	ug/l	100
52) 1,3-Dichloropropane	9.38	76	135161	20.818	ug/l	100
53) Dibromochloromethane	9.59	129	95572	22.585	ug/l	100
54) 1,2-Dibromoethane	9.68	107	85863	20.749	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	341232	110.644	ug/l	100
56) Bromoform	10.87	173	81797	23.189	ug/l	100
58) 4-Methyl-2-Pentanone	8.66	43	733186	118.609	ug/l	100
59) 2-Hexanone	9.51	43	561201	120.482	ug/l	100
61) Tetrachloroethene	9.34	164	101944	21.186	ug/l	100
62) Toluene	8.79	91	334588	20.975	ug/l	100
64) Chlorobenzene	10.15	112	214758	20.637	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.23	131	88116	21.933	ug/l	100
66) Ethyl Benzene	10.26	91	373917	22.237	ug/l	100
67) m/p-Xylenes	10.37	106	281811	42.599	ug/l	100
68) o-Xylene	10.71	106	141770	21.507	ug/l	100
69) Styrene	10.72	104	232896	21.425	ug/l	100
70) Isopropylbenzene	11.02	105	379231	22.266	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	116219	20.588	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	124368m	22.324	ug/l	
73) Bromobenzene	11.26	156	99581	19.751	ug/l	100
74) n-propylbenzene	11.37	91	420035	22.370	ug/l	100
75) 2-Chlorotoluene	11.43	91	258801	22.051	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	320188	22.296	ug/l	100
77) t-1,4-Dichloro-2-butene	11.08	75	40032	25.945	ug/l	100
78) 4-Chlorotoluene	11.52	91	289114	21.711	ug/l	100
79) tert-butylbenzene	12.07	119	331132	21.916	ug/l	100
80) 1,2,4-Trimethylbenzene	11.81	105	324027	22.172	ug/l	100
81) sec-Butylbenzene	11.95	105	375803	22.527	ug/l	100
82) p-Isopropyltoluene	12.07	119	331132	21.916	ug/l	100
83) 1,3-Dichlorobenzene	12.03	146	172597	19.658	ug/l	100
84) 1,4-Dichlorobenzene	12.10	146	171022	19.423	ug/l	100
85) n-Butylbenzene	12.40	91	270423	22.185	ug/l	100
86) Hexachloroethane	12.60	117	65741	25.706	ug/l	100
87) 1,2-Dichlorobenzene	12.40	146	177356	19.515	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	13.01	75	33734	24.282	ug/l	100
89) 1,2,4-Trichlorobenzene	13.65	180	122769	18.971	ug/l	100
90) Hexachlorobutadiene	13.79	225	66808	20.137	ug/l	100
91) Naphthalene	13.84	128	407330	20.658	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	131691	19.259	ug/l	100

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX052518\
Data File : VX001957.D
Acq On : 24 May 2018 22:58
Operator : JC/MD
Sample : VSTDICCC020
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

Manual Integrations
APPROVED

MMDadoda
5/29/2018 4:39:10 PM

Quant Time: May 25 02:05:51 2018
Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X052518W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri May 25 01:52:03 2018
Response via : Initial Calibration

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

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

