

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX051118\
 Data File : VX001620.D
 Acq On : 10 May 2018 23:55
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

apatel
 5/14/2018 3:57:32 PM

Quant Time: May 11 07:07:53 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X051118W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 11 06:59:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	55871	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	289307	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	269490	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	120293	29.74	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.13%
60) 4-Bromofluorobenzene	11.15	95	129140	28.77	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.90%
63) Toluene-d8	8.72	98	355374	30.44	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.47%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	146022	41.74	ug/l	100
3) Chloromethane	1.32	50	154968	46.22	ug/l	98
4) Vinyl Chloride	1.40	62	164580	46.73	ug/l	99
5) Bromomethane	1.64	94	72444	28.12	ug/l	96
6) Chloroethane	1.72	64	107337	48.70	ug/l	93
7) Trichlorofluoromethane	1.93	101	237806	41.55	ug/l	99
8) Diethyl Ether	2.19	74	99476	47.98	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.38	101	132407	40.60	ug/l	99
10) 1,1-Dichloroethene	2.37	96	134806	44.85	ug/l	97
11) Methyl Iodide	2.51	142	206421	54.27	ug/l	99
12) Methyl Acetate	2.78	43	227083	54.76	ug/l	99
13) Acrolein	2.30	56	120472	250.42	ug/l	99
14) Acrylonitrile	3.15	53	456508	276.38	ug/l	99
15) Acetone	2.45	58	122180	246.06	ug/l	98
16) Carbon Disulfide	2.57	76	343142	43.63	ug/l	100
17) Allyl chloride	2.73	41	255408	47.46	ug/l	98
18) Methylene Chloride	2.86	84	155490	47.04	ug/l	95
19) trans-1,2-Dichloroethene	3.17	96	146659	45.34	ug/l	100
20) Diisopropyl ether	3.88	45	478738	45.64	ug/l	99
21) 1,1-Dichloroethane	3.70	63	272549	48.06	ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	162236	45.06	ug/l	98
23) tert-Butyl Alcohol	3.09	59	202104	293.65	ug/l #	100
24) Methyl tert-Butyl Ether	3.21	73	481962	46.40	ug/l	100
25) Chloroform	5.22	83	283288	46.05	ug/l	98
26) Cyclohexane	5.58	56	208311	41.64	ug/l #	99
29) 1,1-Dichloropropene	5.80	75	193171	45.67	ug/l	100
30) 2-Butanone	4.72	43	631386	278.43	ug/l	100
31) 2,2-Dichloropropane	4.59	77	165037	37.39	ug/l	99
32) 1,1,1-Trichloroethane	5.50	97	244285	47.38	ug/l	99
33) Carbon Tetrachloride	5.79	117	219047	47.10	ug/l	99
34) Benzene	6.15	78	607196	48.04	ug/l	98
35) Methacrylonitrile	5.07	41	134538	53.63	ug/l	96
36) 1,2-Dichloroethane	6.21	62	236460	48.24	ug/l	100
37) Trichloroethene	7.22	130	179988	47.07	ug/l	99
38) Methylcyclohexane	7.46	83	211985	43.32	ug/l	98
39) 1,2-Dichloropropane	7.52	63	151113	47.17	ug/l	98
40) Dibromomethane	7.67	93	108694	48.04	ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	207313	48.54	ug/l	100
42) Vinyl Acetate	3.83	43	2080727	242.48	ug/l	99
43) Ethyl Acetate	4.87	43	237839	54.27	ug/l	98
44) Isopropyl Acetate	6.48	43	366376	50.48	ug/l	99
45) 1,4-Dioxane	7.76	88	87330	1236.98	ug/l	98
46) Methyl methacrylate	7.79	41	200662	52.64	ug/l	97
47) n-amyl Acetate	10.91	43	325659	47.57	ug/l	98
48) t-1,3-Dichloropropene	8.45	75	233589	46.96	ug/l	99
49) cis-1,3-Dichloropropene	9.05	75	209215	44.61	ug/l	97
50) 1,1,2-Trichloroethane	9.23	97	160552	47.74	ug/l	98
51) Ethyl methacrylate	9.19	69	236489	49.41	ug/l	98
52) 1,3-Dichloropropane	9.38	76	265641	48.74	ug/l	98
53) Dibromochloromethane	9.59	129	172282	46.84	ug/l	99
54) 1,2-Dibromoethane	9.68	107	170844	47.30	ug/l	98
55) 2-Chloroethyl vinyl ether	8.32	63	638725	267.91	ug/l	100
56) Bromoform	10.87	173	142289	47.18	ug/l	99
58) 4-Methyl-2-Pentanone	8.66	43	1263633	273.78	ug/l	99
59) 2-Hexanone	9.51	43	957161	267.94	ug/l	99
61) Tetrachloroethene	9.34	164	207884	50.54	ug/l	99
62) Toluene	8.79	91	669880	46.59	ug/l	99
64) Chlorobenzene	10.15	112	436869	45.13	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.23	131	167329	47.31	ug/l	99
66) Ethyl Benzene	10.26	91	716822	45.21	ug/l	98
67) m/p-Xylenes	10.37	106	576477	91.00	ug/l	98
68) o-Xylene	10.71	106	281123	45.98	ug/l	99
69) Styrene	10.72	104	473919	46.56	ug/l	98
70) Isopropylbenzene	11.02	105	735910	44.53	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	231598	46.71	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	225614m	50.46	ug/l	
73) Bromobenzene	11.26	156	215679	44.67	ug/l	99
74) n-propylbenzene	11.37	91	814269	43.73	ug/l	99
75) 2-Chlorotoluene	11.43	91	500004	44.16	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	620689	44.08	ug/l	100
77) t-1,4-Dichloro-2-butene	11.08	75	60639	46.04	ug/l	93
78) 4-Chlorotoluene	11.52	91	576438	43.12	ug/l	100
79) tert-butylbenzene	12.07	119	665296	44.22	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	639720	44.75	ug/l	100
81) sec-Butylbenzene	11.95	105	724086	44.35	ug/l	100
82) p-Isopropyltoluene	12.07	119	665296	44.22	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	381408	43.63	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	385853	43.48	ug/l	98
85) n-Butylbenzene	12.40	91	533431	41.55	ug/l	99
86) Hexachloroethane	12.60	117	102910	44.45	ug/l	96
87) 1,2-Dichlorobenzene	12.40	146	391399	44.74	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	13.01	75	57533	54.40	ug/l	97
89) 1,2,4-Trichlorobenzene	13.65	180	286413	43.88	ug/l	100
90) Hexachlorobutadiene	13.79	225	144663	46.19	ug/l	97
91) Naphthalene	13.84	128	877055	50.47	ug/l	100
92) 1,2,3-Trichlorobenzene	14.03	180	300936	46.00	ug/l	100

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

