

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081518\
 Data File : VN050667.D
 Acq On : 15 Aug 2018 20:35
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 8/16/2018 1:18:43 PM

Quant Time: Aug 16 04:32:17 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 26 15:21:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	120941	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	632973	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	548430	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	242296	29.47	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.23%
60) 4-Bromofluorobenzene	12.40	95	249888	29.66	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.87%
63) Toluene-d8	10.09	98	807229	30.81	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.70%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	131242	15.75	ug/l	97
3) Chloromethane	2.06	50	169160	19.69	ug/l	99
4) Vinyl Chloride	2.18	62	177014	19.35	ug/l	97
5) Bromomethane	2.56	94	98493	17.66	ug/l	100
6) Chloroethane	2.70	64	108540	20.06	ug/l	97
7) Trichlorofluoromethane	3.01	101	236823	19.81	ug/l	99
8) Diethyl Ether	3.41	74	80956	20.19	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.76	101	144286	19.84	ug/l	100
10) 1,1-Dichloroethene	3.73	96	126364	19.60	ug/l	96
11) Methyl Iodide	3.95	142	82220	8.67	ug/l	99
12) Methyl Acetate	4.33	43	128998	17.46	ug/l	99
13) Acrolein	3.61	56	13217	28.95	ug/l	98
14) Acrylonitrile	5.00	53	249086	101.06	ug/l	99
15) Acetone	3.82	58	79306	121.07	ug/l	84
16) Carbon Disulfide	4.05	76	397167	20.13	ug/l	98
17) Allyl chloride	4.32	41	195654	19.21	ug/l	98
18) Methylene Chloride	4.55	84	155559	20.91	ug/l	96
19) trans-1,2-Dichloroethene	5.04	96	141409	20.48	ug/l	98
20) Diisopropyl ether	5.96	45	452097	21.65	ug/l	96
21) 1,1-Dichloroethane	5.85	63	271433	20.67	ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	157679	20.60	ug/l	99
23) tert-Butyl Alcohol	4.80	59	51171	92.91	ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	355647	20.22	ug/l	99
25) Chloroform	7.37	83	278133	20.93	ug/l	100
26) Cyclohexane	7.66	56	216152	20.72	ug/l	# 97
29) 1,1-Dichloropropene	7.80	75	202679	20.63	ug/l	99
30) 2-Butanone	6.84	43	357661	116.03	ug/l	98
31) 2,2-Dichloropropane	6.83	77	178528	16.44	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	234652	20.29	ug/l	100
33) Carbon Tetrachloride	7.78	117	207717	20.15	ug/l	100
34) Benzene	8.04	78	629588	21.10	ug/l	99
35) Methacrylonitrile	7.18	41	64056	18.25	ug/l	99
36) 1,2-Dichloroethane	8.13	62	200586	20.48	ug/l	100
37) Trichloroethene	8.84	130	159726	20.41	ug/l	100
38) Methylcyclohexane	9.09	83	200373	19.35	ug/l	100
39) 1,2-Dichloropropane	9.12	63	167275	21.28	ug/l	98
40) Dibromomethane	9.21	93	99789	20.54	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	206744	20.18	ug/l	97
42) Vinyl Acetate	5.90	43	1480947	102.10	ug/l	100
43) Ethyl Acetate	6.94	43	129075	20.05	ug/l	93
44) Isopropyl Acetate	8.17	43	244897	20.54	ug/l	96
45) 1,4-Dioxane	9.20	88	31224	397.94	ug/l	96
46) Methyl methacrylate	9.20	41	105685	18.28	ug/l	99
47) n-amyl Acetate	12.07	43	175692	18.94	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	190665	19.52	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	225302	19.63	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	144642	20.75	ug/l	98
51) Ethyl methacrylate	10.43	69	164923	19.49	ug/l	99
52) 1,3-Dichloropropane	10.71	76	237381	20.73	ug/l	98
53) Dibromochloromethane	10.90	129	157587	19.92	ug/l	99
54) 1,2-Dibromoethane	11.01	107	135964	19.91	ug/l	100
55) 2-Chloroethyl vinyl ether	9.70	63	392331	102.44	ug/l	100
56) Bromoform	12.13	173	108421	19.41	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	829257	129.95	ug/l	99
59) 2-Hexanone	10.75	43	528908	121.49	ug/l	100
61) Tetrachloroethene	10.63	164	150573	20.27	ug/l	97
62) Toluene	10.16	91	663998	21.22	ug/l	100
64) Chlorobenzene	11.44	112	396918	20.92	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	154447	20.87	ug/l	98
66) Ethyl Benzene	11.51	91	649661	20.32	ug/l	99
67) m/p-Xylenes	11.62	106	516054	41.94	ug/l	99
68) o-Xylene	11.95	106	240025	20.50	ug/l	99
69) Styrene	11.97	104	392229	20.90	ug/l	99
70) Isopropylbenzene	12.25	105	641296	20.57	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	179823	21.00	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	145467m	19.89	ug/l	
73) Bromobenzene	12.53	156	167563	20.17	ug/l	99
74) n-propylbenzene	12.59	91	722870	19.90	ug/l	99
75) 2-Chlorotoluene	12.68	91	445361	20.42	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	528661	20.64	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	39036	16.33	ug/l	97
78) 4-Chlorotoluene	12.77	91	437017	20.22	ug/l	99
79) tert-butylbenzene	12.99	119	442265	20.20	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	534711	20.61	ug/l	100
81) sec-Butylbenzene	13.17	105	586742	19.73	ug/l	99
82) p-Isopropyltoluene	13.29	119	493889	19.46	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	284799	19.69	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	267173	19.55	ug/l	99
85) n-Butylbenzene	13.62	91	367933	17.86	ug/l	99
86) Hexachloroethane	13.88	117	95650	18.86	ug/l	99
87) 1,2-Dichlorobenzene	13.65	146	280907	19.87	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	25144	18.85	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	117497	17.40	ug/l	99
90) Hexachlorobutadiene	15.01	225	83000	18.64	ug/l	99
91) Naphthalene	15.14	128	235231	18.75	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	121560	17.70	ug/l	99

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

