

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082319\
 Data File : VN057463.D
 Acq On : 23 Aug 2019 9:37
 Operator : JC/SP
 Sample : VSTDICCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 8/26/2019 1:11:51 PM

Quant Time: Aug 23 23:04:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 23 22:53:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	66780	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	392757	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.40	117	321641	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	197913	41.67	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	138.90%
60) 4-Bromofluorobenzene	12.40	95	150926	31.35	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	104.50%
63) Toluene-d8	10.08	98	500738	33.66	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	112.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.84	85	71869	20.984	ug/l 100
3) Chloromethane	2.05	50	107269	25.285	ug/l 100
4) Vinyl Chloride	2.17	62	141582	31.918	ug/l 100
5) Bromomethane	2.55	94	90022	27.719	ug/l 100
6) Chloroethane	2.69	64	92290	30.788	ug/l 100
7) Trichlorofluoromethane	3.00	101	220335	31.287	ug/l 100
8) Diethyl Ether	3.39	74	84194	31.966	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.73	101	124711	30.218	ug/l 100
10) 1,1-Dichloroethene	3.71	96	116556	28.852	ug/l 100
11) Methyl Iodide	3.92	142	89288	15.507	ug/l 100
12) Methyl Acetate	4.30	43	112353	25.288	ug/l 100
13) Acrolein	3.58	56	76324	163.514	ug/l 100
14) Acrylonitrile	4.97	53	202382	117.518	ug/l 100
15) Acetone	3.80	58	108098	180.857	ug/l 100
16) Carbon Disulfide	4.02	76	203927	20.528	ug/l 100
17) Allyl chloride	4.29	41	157740	27.170	ug/l 100
18) Methylene Chloride	4.52	84	85014	20.548	ug/l 100
19) trans-1,2-Dichloroethene	5.01	96	77845	19.963	ug/l 100
20) Diisopropyl ether	5.93	45	341616	28.120	ug/l 100
21) 1,1-Dichloroethane	5.82	63	177719	24.799	ug/l 100
22) cis-1,2-Dichloroethene	6.81	96	98130	21.387	ug/l 100
23) tert-Butyl Alcohol	4.78	59	72903	118.061	ug/l 100
24) Methyl tert-Butyl Ether	5.02	73	269665	23.389	ug/l 100
25) Chloroform	7.36	83	173154	23.487	ug/l 100
26) Cyclohexane	7.63	56	155379	25.749	ug/l # 100
29) 1,1-Dichloropropene	7.78	75	128737	22.032	ug/l 100
30) 2-Butanone	6.82	43	321679	131.874	ug/l 100
31) 2,2-Dichloropropane	6.80	77	149556	23.118	ug/l 100
32) 1,1,1-Trichloroethane	7.55	97	148254	21.669	ug/l 100
33) Carbon Tetrachloride	7.76	117	121704	20.230	ug/l 100
34) Benzene	8.03	78	384335	21.786	ug/l 100
35) Methacrylonitrile	7.16	41	66509	20.935	ug/l 100
36) 1,2-Dichloroethane	8.11	62	147806	24.684	ug/l 100
37) Trichloroethene	8.82	130	88139	17.976	ug/l 100
38) Methylcyclohexane	9.07	83	143133	20.997	ug/l 100
39) 1,2-Dichloropropane	9.11	63	108990	23.609	ug/l 100
40) Dibromomethane	9.20	93	65999	21.950	ug/l 100

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

41) Bromodichloromethane	9.39	83	136222	22.229	ug/l	100
42) Vinyl Acetate	5.87	43	1393321	134.843	ug/l	100
43) Ethyl Acetate	6.91	43	121738	24.779	ug/l	100
44) Isopropyl Acetate	8.16	43	231237	26.284	ug/l #	92
45) 1,4-Dioxane	9.20	88	27436	364.506	ug/l	100
46) Methyl methacrylate	9.19	41	108240	27.062	ug/l	100
47) n-amyl Acetate	12.07	43	173038	26.129	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	140973	21.424	ug/l	100
49) cis-1,3-Dichloropropene	9.83	75	159501	21.776	ug/l	100
50) 1,1,2-Trichloroethane	10.56	97	87053	20.260	ug/l	100
51) Ethyl methacrylate	10.43	69	138700	21.702	ug/l	99
52) 1,3-Dichloropropane	10.70	76	159006	22.138	ug/l	100
53) Dibromochloromethane	10.90	129	90402	18.618	ug/l	100
54) 1,2-Dibromoethane	11.00	107	85573	19.165	ug/l	100
55) 2-Chloroethyl vinyl ether	9.69	63	149444	100.074	ug/l	100
56) Bromoform	12.13	173	50486	14.288	ug/l #	100
58) 4-Methyl-2-Pentanone	9.98	43	646063	139.644	ug/l	100
59) 2-Hexanone	10.75	43	449750	136.605	ug/l	100
61) Tetrachloroethene	10.63	164	75730	16.993	ug/l	100
62) Toluene	10.15	91	396553	22.012	ug/l	100
64) Chlorobenzene	11.43	112	211123	19.203	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	80454	18.997	ug/l	100
66) Ethyl Benzene	11.51	91	416474	21.266	ug/l	100
67) m/p-Xylenes	11.62	106	286646	39.797	ug/l	100
68) o-Xylene	11.95	106	145047	20.471	ug/l	100
69) Styrene	11.96	104	217019	19.203	ug/l	100
70) Isopropylbenzene	12.25	105	379378	20.063	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	109655	20.935	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	98439m	21.923	ug/l	
73) Bromobenzene	12.53	156	74273	15.489	ug/l	100
74) n-propylbenzene	12.59	91	415678	20.733	ug/l	100
75) 2-Chlorotoluene	12.67	91	251777	20.476	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	309871	19.758	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	34488	20.115	ug/l	100
78) 4-Chlorotoluene	12.77	91	222665	19.303	ug/l	100
79) tert-butylbenzene	12.99	119	263810	19.022	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	287672	19.436	ug/l	100
81) sec-Butylbenzene	13.17	105	341044	19.606	ug/l	100
82) p-Isopropyltoluene	13.29	119	275658	17.930	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	109601	15.488	ug/l	100
84) 1,4-Dichlorobenzene	13.37	146	102871	15.415	ug/l	100
85) n-Butylbenzene	13.62	91	225578	19.522	ug/l	100
86) Hexachloroethane	13.88	117	57967	19.401	ug/l	100
87) 1,2-Dichlorobenzene	13.66	146	111326	16.545	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.27	75	16630	22.495	ug/l	100
89) 1,2,4-Trichlorobenzene	14.91	180	27897	11.557	ug/l	100
90) Hexachlorobutadiene	15.01	225	35337	12.387	ug/l	100
91) Naphthalene	15.13	128	102241	17.847	ug/l	100
92) 1,2,3-Trichlorobenzene	15.30	180	31215	13.329	ug/l	100

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

