

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060619\
 Data File : VN056016.D
 Acq On : 5 Jun 2019 19:18
 Operator : JC/SP
 Sample : VSTDICCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 Client Sample ID :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 6/6/2019 10:19:30 AM

Quant Time: Jun 06 03:41:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jun 06 03:18:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	55574	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	303903	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	261986	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	104989	29.13	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.10%
60) 4-Bromofluorobenzene	12.40	95	113669	28.23	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.10%
63) Toluene-d8	10.09	98	365078	30.50	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.67%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	66257	25.337	ug/l 100
3) Chloromethane	2.06	50	73105	20.960	ug/l 100
4) Vinyl Chloride	2.18	62	76640	21.380	ug/l 100
5) Bromomethane	2.54	94	49485	22.977	ug/l 100
6) Chloroethane	2.69	64	44483	21.343	ug/l 100
7) Trichlorofluoromethane	3.01	101	94217	20.967	ug/l 100
8) Diethyl Ether	3.40	74	39500	20.217	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.74	101	57766	20.515	ug/l 100
10) 1,1-Dichloroethene	3.72	96	58282	19.933	ug/l 100
11) Methyl Iodide	3.94	142	89354	21.008	ug/l 100
12) Methyl Acetate	4.33	43	69040	19.368	ug/l 100
13) Acrolein	3.60	56	16287	37.436	ug/l 100
14) Acrylonitrile	4.99	53	154939	96.146	ug/l 100
15) Acetone	3.82	58	54756	107.438	ug/l 100
16) Carbon Disulfide	4.04	76	129424	16.160	ug/l 100
17) Allyl chloride	4.31	41	87579	17.174	ug/l 100
18) Methylene Chloride	4.54	84	67035	19.998	ug/l 100
19) trans-1,2-Dichloroethene	5.03	96	63038	20.051	ug/l 100
20) Diisopropyl ether	5.95	45	188061	18.656	ug/l 100
21) 1,1-Dichloroethane	5.85	63	108305	18.995	ug/l 100
22) cis-1,2-Dichloroethene	6.82	96	72783	19.844	ug/l 100
23) tert-Butyl Alcohol	4.82	59	58675	85.089	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	185474	18.938	ug/l 100
25) Chloroform	7.37	83	108766	19.237	ug/l 100
26) Cyclohexane	7.65	56	100487	19.040	ug/l # 100
29) 1,1-Dichloropropene	7.79	75	81022	19.252	ug/l 100
30) 2-Butanone	6.84	43	217889	97.441	ug/l 100
31) 2,2-Dichloropropane	6.82	77	75574	16.147	ug/l 100
32) 1,1,1-Trichloroethane	7.57	97	89702	18.241	ug/l 100
33) Carbon Tetrachloride	7.77	117	74393	17.153	ug/l 100
34) Benzene	8.04	78	260640	19.914	ug/l 100
35) Methacrylonitrile	7.18	41	40640	19.503	ug/l 100
36) 1,2-Dichloroethane	8.12	62	81067	19.153	ug/l 100
37) Trichloroethene	8.83	130	73610	20.098	ug/l 100
38) Methylcyclohexane	9.08	83	100577	18.869	ug/l 100
39) 1,2-Dichloropropane	9.12	63	67231	19.271	ug/l 100
40) Dibromomethane	9.21	93	44079	19.447	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	76549	17.031	ug/l	100
42) Vinyl Acetate	5.90	43	761051	89.260	ug/l	100
43) Ethyl Acetate	6.93	43	82384	18.885	ug/l	100
44) Isopropyl Acetate	8.17	43	122812	17.228	ug/l	100
45) 1,4-Dioxane	9.21	88	27378	395.823	ug/l	100
46) Methyl methacrylate	9.20	41	58974	17.677	ug/l	100
47) n-amyl Acetate	12.07	43	100458	17.093	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	77209	15.736	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	94217	17.280	ug/l	100
50) 1,1,2-Trichloroethane	10.56	97	65243	19.770	ug/l	100
51) Ethyl methacrylate	10.43	69	95106	18.200	ug/l	100
52) 1,3-Dichloropropane	10.71	76	106545	19.654	ug/l	100
53) Dibromochloromethane	10.90	129	58826	15.763	ug/l	100
54) 1,2-Dibromoethane	11.00	107	66912	19.596	ug/l	100
55) 2-Chloroethyl vinyl ether	9.70	63	161265	80.851	ug/l	100
56) Bromoform	12.13	173	40497	13.606	ug/l	100
58) 4-Methyl-2-Pentanone	9.99	43	397368	93.832	ug/l	100
59) 2-Hexanone	10.75	43	283625	93.511	ug/l	100
61) Tetrachloroethene	10.63	164	75105	21.113	ug/l	100
62) Toluene	10.16	91	284859	20.274	ug/l	100
64) Chlorobenzene	11.43	112	170664	20.040	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	60872	18.177	ug/l	100
66) Ethyl Benzene	11.51	91	302331	19.795	ug/l	100
67) m/p-Xylenes	11.62	106	231018	39.788	ug/l	100
68) o-Xylene	11.95	106	113580	19.816	ug/l	100
69) Styrene	11.96	104	178816	18.971	ug/l	100
70) Isopropylbenzene	12.25	105	296670	19.767	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	90206	19.628	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	76580m	19.468	ug/l	100
73) Bromobenzene	12.53	156	76856	19.364	ug/l	100
74) n-propylbenzene	12.59	91	302298	18.816	ug/l	100
75) 2-Chlorotoluene	12.67	91	190169	19.335	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	241775	19.551	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	18843	12.818	ug/l	100
78) 4-Chlorotoluene	12.77	91	171074	18.430	ug/l	100
79) tert-butylbenzene	12.99	119	213313	19.652	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	231911	18.973	ug/l	100
81) sec-Butylbenzene	13.17	105	268114	19.422	ug/l	100
82) p-Isopropyltoluene	13.29	119	238776	18.881	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	115189	18.622	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	105181	17.918	ug/l	100
85) n-Butylbenzene	13.61	91	163325	16.809	ug/l	100
86) Hexachloroethane	13.87	117	35523	14.994	ug/l	100
87) 1,2-Dichlorobenzene	13.65	146	117984	18.941	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.27	75	12395	14.972	ug/l	100
89) 1,2,4-Trichlorobenzene	14.91	180	47323	14.362	ug/l	100
90) Hexachlorobutadiene	15.01	225	43833	17.782	ug/l	100
91) Naphthalene	15.13	128	130352	14.526	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	54579	15.815	ug/l	100

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

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