

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062424\
 Data File : VX042017.D
 Acq On : 24 Jun 2024 20:11
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/25/2024
 Supervised By : Mahesh Dadoda 06/25/2024

Quant Time: Jun 25 05:57:51 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061424W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jun 15 04:02:59 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	4.897	128	27810	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	150283	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	140343	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	56756	29.647	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	98.833%	
60) 4-Bromofluorobenzene	11.079	95	65434	30.121	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	100.400%	
63) Toluene-d8	8.647	98	181096	30.161	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	100.533%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	31147	17.302	ug/l	95
3) Chloromethane	1.300	50	35554	17.668	ug/l	97
4) Vinyl Chloride	1.374	62	34301	17.430	ug/l	95
5) Bromomethane	1.593	94	17671	16.798	ug/l	96
6) Chloroethane	1.666	64	18994	22.591	ug/l	92
7) Trichlorofluoromethane	1.867	101	43659	17.616	ug/l	96
8) Diethyl Ether	2.136	74	19418	18.104	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.319	101	28894	17.149	ug/l	99
10) 1,1-Dichloroethene	2.306	96	29571	17.399	ug/l	99
11) Methyl Iodide	2.441	142	41853	18.920	ug/l	99
12) Methyl Acetate	2.709	43	43325	19.994	ug/l	97
13) Acrolein	2.239	56	35090	80.313	ug/l	100
14) Acrylonitrile	3.068	53	95782	93.131	ug/l	99
15) Acetone	2.392	58	24216	82.309	ug/l	97
16) Carbon Disulfide	2.501	76	60788	16.320	ug/l	99
17) Allyl chloride	2.660	41	46257	17.921	ug/l	95
18) Methylene Chloride	2.782	84	35745	18.336	ug/l	96
19) trans-1,2-Dichloroethene	3.087	96	30455	17.888	ug/l	95
20) Diisopropyl ether	3.763	45	99295	18.715	ug/l	91
21) 1,1-Dichloroethane	3.605	63	55486	18.309	ug/l	100
22) cis-1,2-Dichloroethene	4.489	96	37322	18.109	ug/l	99
23) tert-Butyl Alcohol	2.995	59	35028	91.608	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	97973	18.635	ug/l	100
25) Chloroform	5.092	83	58023	18.839	ug/l	99
26) Cyclohexane	5.464	56	43499	16.525	ug/l #	100
29) 1,1-Dichloropropene	5.690	75	36133	18.422	ug/l	98
30) 2-Butanone	4.568	43	128761	98.247	ug/l	100
31) 2,2-Dichloropropane	4.471	77	35534	16.534	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	47955	19.287	ug/l	100
33) Carbon Tetrachloride	5.672	117	40872	19.060	ug/l	95
34) Benzene	6.037	78	125946	19.275	ug/l	100
35) Methacrylonitrile	4.922	41	26180	19.888	ug/l	98
36) 1,2-Dichloroethane	6.086	62	39850	19.577	ug/l	99
37) Trichloroethene	7.123	130	33550	18.798	ug/l	99
38) Methylcyclohexane	7.379	83	43883	16.891	ug/l	99
39) 1,2-Dichloropropane	7.427	63	31448	20.205	ug/l	97
40) Dibromomethane	7.580	93	22372	19.431	ug/l	100
41) Bromodichloromethane	7.824	83	40632	19.698	ug/l	98
42) Vinyl Acetate	3.727	43	427436	97.436	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.727	43	48672	19.807	ug/l	99
44) Isopropyl Acetate	6.348	43	70874	19.256	ug/l	100
45) 1,4-Dioxane	7.665	88	18220m	406.115	ug/l	
46) Methyl methacrylate	7.696	41	35101	19.505	ug/l	99
47) n-amyl Acetate	10.841	43	62166	18.820	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	39073	18.398	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	44855	18.828	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	33394	19.947	ug/l	99
51) Ethyl methacrylate	9.116	69	50319	18.920	ug/l	98
52) 1,3-Dichloropropane	9.311	76	53948	19.711	ug/l	99
53) Dibromochloromethane	9.518	129	35333	19.285	ug/l	99
54) 1,2-Dibromoethane	9.610	107	35311	20.001	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	121780	98.375	ug/l	99
56) Bromoform	10.799	173	27950	18.709	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	253643	100.859	ug/l	99
59) 2-Hexanone	9.433	43	193158	99.513	ug/l	99
61) Tetrachloroethene	9.275	164	32619	18.471	ug/l	97
62) Toluene	8.720	91	136928	19.281	ug/l	99
64) Chlorobenzene	10.079	112	91871	18.997	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	32946	19.726	ug/l	98
66) Ethyl Benzene	10.195	91	146704	18.895	ug/l	98
67) m/p-Xylenes	10.299	106	116940	37.444	ug/l	100
68) o-Xylene	10.640	106	58789	18.881	ug/l	99
69) Styrene	10.652	104	99701	19.161	ug/l	99
70) Isopropylbenzene	10.963	105	148916	19.021	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	54325	20.050	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	43004m	19.596	ug/l	
73) Bromobenzene	11.195	156	43769	19.167	ug/l	100
74) n-propylbenzene	11.305	91	159553	18.552	ug/l	100
75) 2-Chlorotoluene	11.366	91	104265	19.092	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	123878	18.887	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	13379	16.480	ug/l	98
78) 4-Chlorotoluene	11.457	91	113369	18.687	ug/l	99
79) tert-butylbenzene	11.713	119	131635	18.907	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	124889	19.059	ug/l	97
81) sec-Butylbenzene	11.890	105	149617	18.425	ug/l	100
82) p-Isopropyltoluene	12.006	119	128462	18.053	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	76552	18.801	ug/l	100
84) 1,4-Dichlorobenzene	12.042	146	75532	18.636	ug/l	99
85) n-Butylbenzene	12.329	91	94585	17.189	ug/l	99
86) Hexachloroethane	12.536	117	20693	17.807	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	76758	18.640	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	10235	18.263	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	47660	17.098	ug/l	99
90) Hexachlorobutadiene	13.725	225	24301	17.692	ug/l	98
91) Naphthalene	13.774	128	155500	18.463	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	53157	18.414	ug/l	99

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

