

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011823\
 Data File : VX033769.D
 Acq On : 18 Jan 2023 13:01
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/19/2023
 Supervised By : Mahesh Dadoda 01/19/2023

Quant Time: Jan 18 13:27:46 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jan 18 12:35:47 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	17173	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	118316	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	123997	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	39971	28.746	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	95.833%	
60) 4-Bromofluorobenzene	11.079	95	68207	30.520	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	101.733%	
63) Toluene-d8	8.647	98	121654	30.656	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	102.200%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	33118	18.440	ug/l	99
3) Chloromethane	1.294	50	36221	18.815	ug/l	99
4) Vinyl Chloride	1.374	62	36235	20.837	ug/l	99
5) Bromomethane	1.618	94	22309	23.162	ug/l	98
6) Chloroethane	1.691	64	20194	19.829	ug/l	97
7) Trichlorofluoromethane	1.892	101	53533	19.949	ug/l	96
8) Diethyl Ether	2.130	74	19740	22.592	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	32342	23.243	ug/l	96
10) 1,1-Dichloroethene	2.319	96	31524	24.029	ug/l	98
11) Methyl Iodide	2.453	142	46183	20.478	ug/l	94
12) Methyl Acetate	2.709	43	55149	20.080	ug/l	99
13) Acrolein	2.239	56	26854	90.681	ug/l	96
14) Acrylonitrile	3.068	53	91102	100.584	ug/l	99
15) Acetone	2.398	58	27175	132.579	ug/l	83
16) Carbon Disulfide	2.514	76	74093	19.409	ug/l	100
17) Allyl chloride	2.666	41	57273	20.521	ug/l	87
18) Methylene Chloride	2.788	84	35585	19.369	ug/l	93
19) trans-1,2-Dichloroethene	3.093	96	34201	19.404	ug/l	92
20) Diisopropyl ether	3.757	45	111910	18.578	ug/l #	91
21) 1,1-Dichloroethane	3.611	63	60864	18.425	ug/l	100
22) cis-1,2-Dichloroethene	4.489	96	40002	19.085	ug/l	96
23) tert-Butyl Alcohol	3.026	59	32031m	89.534	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	102535	18.303	ug/l	97
25) Chloroform	5.093	83	61303	18.283	ug/l	93
26) Cyclohexane	5.471	56	55996	18.264	ug/l #	98
29) 1,1-Dichloropropene	5.696	75	45865	17.934	ug/l	97
30) 2-Butanone	4.568	43	128907	96.519	ug/l #	97
31) 2,2-Dichloropropane	4.471	77	42200	19.165	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	52585	17.612	ug/l	99
33) Carbon Tetrachloride	5.678	117	47349	17.569	ug/l	98
34) Benzene	6.037	78	140054	18.850	ug/l	98
35) Methacrylonitrile	4.922	41	27922	18.348	ug/l	95
36) 1,2-Dichloroethane	6.086	62	47513	17.592	ug/l	97
37) Trichloroethene	7.129	130	39290	18.337	ug/l	99
38) Methylcyclohexane	7.379	83	55091	17.324	ug/l	99
39) 1,2-Dichloropropane	7.427	63	32545	17.140	ug/l	99
40) Dibromomethane	7.580	93	23340	17.491	ug/l	98
41) Bromodichloromethane	7.818	83	44609	17.235	ug/l	98
42) Vinyl Acetate	3.721	43	428114	89.699	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	48496	17.721	ug/l	97
44) Isopropyl Acetate	6.342	43	74779	17.417	ug/l	100
45) 1,4-Dioxane	7.714	88	16108m	343.889	ug/l	
46) Methyl methacrylate	7.696	41	38235	17.589	ug/l	97
47) n-amyl Acetate	10.842	43	59880	16.381	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	43029	16.270	ug/l	94
49) cis-1,3-Dichloropropene	8.366	75	51596	17.566	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	33044	17.059	ug/l	98
51) Ethyl methacrylate	9.116	69	48324	16.730	ug/l	95
52) 1,3-Dichloropropane	9.305	76	55544	17.120	ug/l	99
53) Dibromochloromethane	9.519	129	35060	16.606	ug/l	97
54) 1,2-Dibromoethane	9.610	107	35287	17.046	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	118043	84.535	ug/l	99
56) Bromoform	10.799	173	28233	17.417	ug/l	97
58) 4-Methyl-2-Pentanone	8.574	43	238663	96.894	ug/l	99
59) 2-Hexanone	9.427	43	178812	98.641	ug/l	98
61) Tetrachloroethene	9.275	164	31529	17.623	ug/l	99
62) Toluene	8.720	91	148430	19.016	ug/l	97
64) Chlorobenzene	10.079	112	96311	19.158	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	36076	19.067	ug/l	99
66) Ethyl Benzene	10.195	91	167007	19.186	ug/l	97
67) m/p-Xylenes	10.299	106	131451	38.262	ug/l	98
68) o-Xylene	10.640	106	64875	19.212	ug/l	98
69) Styrene	10.653	104	107434	19.223	ug/l	98
70) Isopropylbenzene	10.963	105	168714	19.292	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.213	83	49928	18.961	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	46151m	19.347	ug/l	
73) Bromobenzene	11.195	156	45905	19.835	ug/l	95
74) n-propylbenzene	11.305	91	191794	19.317	ug/l	100
75) 2-Chlorotoluene	11.366	91	113932	19.185	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	142288	19.597	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	13128	18.395	ug/l	94
78) 4-Chlorotoluene	11.451	91	127118	19.088	ug/l	99
79) tert-butylbenzene	11.713	119	144117	19.354	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	139530	19.452	ug/l	98
81) sec-Butylbenzene	11.890	105	174199	19.334	ug/l	99
82) p-Isopropyltoluene	12.006	119	152338	19.603	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	81707	19.339	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	81231	19.284	ug/l	99
85) n-Butylbenzene	12.329	91	121273	19.195	ug/l	99
86) Hexachloroethane	12.536	117	22740	17.987	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	80666	19.820	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	10042	18.369	ug/l	93
89) 1,2,4-Trichlorobenzene	13.591	180	54333	19.411	ug/l	99
90) Hexachlorobutadiene	13.725	225	25168	18.752	ug/l	97
91) Naphthalene	13.774	128	161269	19.620	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	54127	19.273	ug/l	99

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

