

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091922\
 Data File : VL039633.D
 Acq On : 19 Sep 2022 13:43
 Operator : SY/AP
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

Reviewed By :Krupa Patel 09/21/2022
 Supervised By :Mahesh Dadoda 09/21/2022

Quant Time: Sep 19 14:19:22 2022

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091922AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 19 2022

QLast Update : Mon Sep 19 13:24:35 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.211	49	1055844	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.671	114	2777788	10.000	ppbv	0.01
55) Chlorobenzene-d5	11.481	117	2828663	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	13.789	95	2078713	9.741	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.754	85	1131400	8.053	ppbv	99
3) Chlorodifluoromethane	2.700	51	1774532	14.106	ppbv	97
4) Chloromethane	2.835	50	1097564	14.485	ppbv	100
5) Vinyl Chloride	2.944	62	968690	15.840	ppbv	98
6) Bromomethane	3.144	94	359722	13.870	ppbv	97
7) Chloroethane	3.224	64	356456	15.558	ppbv	97
8) Dichlorotetrafluoroethane	2.880	85	1647339	10.960	ppbv	94
9) Propene	2.716	41	857243	14.893	ppbv	96
10) Heptane	7.597	43	2179285	16.349	ppbv	98
11) Trichlorofluoromethane	3.587	101	2279484	14.782	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.089	101	1703707	14.937	ppbv	96
13) Ethanol	3.269	45	65344m	15.796	ppbv	
14) Bromoethene	3.391	108	712561	15.290	ppbv	98
15) Acetone	3.491	43	1700664	14.379	ppbv	100
16) 1,3-Butadiene	3.008	39	946288	15.333	ppbv	98
17) tert-Butyl alcohol	3.899	59	1499473	14.855	ppbv	99
18) 1,1-Dichloroethene	3.902	96	764308	14.879	ppbv	97
19) Isopropyl Alcohol	3.594	45	870542	15.131	ppbv #	97
20) Methylene Chloride	3.954	84	679330	14.138	ppbv	96
21) Allyl Chloride	4.018	41	1215727	15.802	ppbv	99
22) trans-1,2-Dichloroethene	4.465	96	776715	15.202	ppbv	95
23) Vinyl Acetate	4.648	43	788051	14.013	ppbv	98
24) 1,1-Dichloroethane	4.584	63	1577566	15.155	ppbv	99
25) Ethyl Acetate	5.224	43	3842418	15.184	ppbv	100
26) Hexane	5.230	57	1618054	15.665	ppbv	99
27) Carbon Disulfide	4.143	76	1956788	17.734	ppbv	99
28) Methyl tert-Butyl Ether	4.606	73	1348122	15.130	ppbv	98
29) Chloroform	5.295	83	2387397	14.779	ppbv	100
30) Cyclohexane	6.619	84	1330322	15.554	ppbv	97
31) cis-1,2-Dichloroethene	5.098	61	1574894	15.742	ppbv	98
32) 1,1,1-Trichloroethane	6.021	97	2347326	16.518	ppbv	99
34) 2-Butanone	4.806	43	2168552	15.703	ppbv	99
35) Carbon Tetrachloride	6.510	117	2496006	16.623	ppbv	100
36) Benzene	6.388	78	3315755	15.659	ppbv	96
37) 1,2-Dichloroethane	5.825	62	1822178	15.623	ppbv	99
38) Trichloroethene	7.307	130	1910312	16.838	ppbv	99
39) 1,2-Dichloropropane	7.089	63	1283018	16.116	ppbv	98
40) 1,4-Dioxane	7.304	88	498145	15.982	ppbv	98
41) Tetrahydrofuran	5.574	42	1387450	16.819	ppbv	96
42) Bromodichloromethane	7.266	83	2611194	16.360	ppbv	97
43) Methyl Methacrylate	7.494	69	1326153	17.368	ppbv	97
44) 2,2,4-Trimethylpentane	7.343	57	5507570	15.429	ppbv	99
45) t-1,3-Dichloropropene	8.722	75	1344811	20.224	ppbv	99

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.159	75	1771987	19.239	ppbv	99
47) 1,1,2-Trichloroethane	8.912	97	1400822	15.407	ppbv	98
48) Dibromochloromethane	9.722	129	2369242	17.678	ppbv	100
49) Bromoform	12.420	173	2021127	18.207	ppbv	99
50) 4-Methyl-2-Pentanone	8.195	43	3573955	16.612	ppbv	98
51) 2-Hexanone	9.564	43	2838761	17.927	ppbv	99
52) Tetrachloroethene	10.629	164	1260271	15.732	ppbv	97
53) Toluene	9.233	91	3965528	16.734	ppbv	100
54) 1,2-Dibromoethane	10.024	107	1653038	16.256	ppbv	99
56) 1,1,1,2-Tetrachloroethane	11.523	131	1678426	14.603	ppbv #	92
57) Chlorobenzene	11.539	112	2955639	14.006	ppbv	98
58) Ethyl Benzene	12.101	91	5158681	15.873	ppbv	99
59) m/p-Xylene	12.388	91	8594438m	29.477	ppbv	
60) o-Xylene	13.072	91	4169775	14.899	ppbv	99
61) Styrene	12.912	104	2596163	17.417	ppbv	99
62) Isopropylbenzene	14.043	105	6037212	14.265	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.060	83	1595577	12.039	ppbv	100
64) n-propylbenzene	14.934	120	1617891	14.709	ppbv	98
65) tert-Butylbenzene	16.104	119	5310193	14.115	ppbv	100
66) Benzyl Chloride	16.339	91	531916	17.406	ppbv	100
67) sec-Butylbenzene	16.651	105	7380826	13.852	ppbv	100
69) p-Isopropyltoluene	17.011	119	6169627	13.949	ppbv	100
70) n-Butylbenzene	17.902	91	6167811	14.016	ppbv	100
71) 2-Chlorotoluene	14.815	91	4469767	14.582	ppbv	99
72) 4-Ethyltoluene	15.207	105	4863486	14.861	ppbv	98
73) 1,3,5-Trimethylbenzene	15.365	105	4388415	14.674	ppbv	100
74) 1,2,4-Trimethylbenzene	16.124	105	4701966	14.111	ppbv	99
75) 1,3-Dichlorobenzene	16.342	146	2860579	14.120	ppbv	100
76) 1,4-Dichlorobenzene	16.487	146	2824251	13.992	ppbv	98
77) 1,2-Dichlorobenzene	17.156	146	2707311	13.647	ppbv	99
78) Hexachloro-1,3-Butadiene	22.648	225	1884547	11.928	ppbv	99
79) Naphthalene	21.397	128	3930133	16.561	ppbv	98
80) Naphthalene,2-methyl-	24.387	142	1715761	17.814	ppbv	98
81) 1,2,4-Trichlorobenzene	21.152	180	2221844	14.021	ppbv	99

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

