

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL122320\
 Data File : VL036208.D
 Acq On : 24 Dec 2020 8:02
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 12/26/2020 1:36:58 PM

Quant Time: Dec 25 01:12:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 0
 QLast Update : Mon Dec 07 16:56:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1366342	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.17	114	2669723	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.08	117	2728438	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2284527	10.54	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	1054571	6.623	ppbv	99
3) Chlorodifluoromethane	2.97	51	1738282	11.151	ppbv	96
4) Chloromethane	3.13	50	791081	10.336	ppbv	99
5) Vinyl Chloride	3.24	62	790043	9.278	ppbv	98
6) Bromomethane	3.46	94	423024	9.629	ppbv	92
7) Chloroethane	3.54	64	287256	9.904	ppbv	97
8) Dichlorotetrafluoroethane	3.17	85	1754104	9.912	ppbv	85
9) Propene	3.00	41	741092	9.490	ppbv	97
10) Heptane	8.11	43	1887971	9.466	ppbv	98
11) Trichlorofluoromethane	3.94	101	2132646	11.392	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1301469	10.236	ppbv	88
13) Ethanol	3.59	45	119885	11.136	ppbv	93
14) Bromoethene	3.73	108	512152	9.819	ppbv	97
15) Acetone	3.84	43	1892787	11.526	ppbv	97
16) 1,3-Butadiene	3.31	39	814457	9.847	ppbv	100
17) tert-Butyl alcohol	4.28	59	1385133	8.708	ppbv	99
18) 1,1-Dichloroethene	4.28	96	561869	9.953	ppbv	90
19) Isopropyl Alcohol	3.96	45	986643	9.830	ppbv #	100
20) Methylene Chloride	4.33	84	514135	7.640	ppbv	98
21) Allyl Chloride	4.40	41	1001632	9.173	ppbv	90
22) trans-1,2-Dichloroethene	4.87	96	545046	9.644	ppbv	100
23) Vinyl Acetate	5.06	43	2255013	10.314	ppbv #	98
24) 1,1-Dichloroethane	5.00	63	1500852	9.760	ppbv	99
25) Ethyl Acetate	5.67	43	3245975	9.894	ppbv	100
26) Hexane	5.68	57	1318750	8.932	ppbv	99
27) Carbon Disulfide	4.54	76	1417486	9.660	ppbv	94
28) Methyl tert-Butyl Ether	5.02	73	1923544	9.164	ppbv	98
29) Chloroform	5.75	83	2067821	10.665	ppbv	98
30) Cyclohexane	7.12	84	1019697	9.402	ppbv	96
31) cis-1,2-Dichloroethene	5.54	61	1418507	10.569	ppbv	94
32) 1,1,1-Trichloroethane	6.50	97	2055379	10.273	ppbv	95
34) 2-Butanone	5.23	43	2053668	11.597	ppbv	99
35) Carbon Tetrachloride	7.01	117	2007877	12.897	ppbv	97
36) Benzene	6.88	78	2550504	11.273	ppbv	97
37) 1,2-Dichloroethane	6.30	62	1848277	14.098	ppbv #	96
38) Trichloroethene	7.82	130	795642	9.407	ppbv	87
39) 1,2-Dichloropropane	7.60	63	1087081	12.166	ppbv	93
40) 1,4-Dioxane	7.82	88	322168	11.464	ppbv #	35
41) Tetrahydrofuran	6.04	42	1172447	11.144	ppbv	99
42) Bromodichloromethane	7.78	83	2343482	13.414	ppbv	99
43) Methyl Methacrylate	8.01	69	1173143	12.086	ppbv	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	4681999	11.427	ppbv	97
45) t-1,3-Dichloropropene	9.27	75	1295169	12.988	ppbv	95
46) cis-1,3-Dichloropropene	8.70	75	1550302	12.404	ppbv	90
47) 1,1,2-Trichloroethane	9.47	97	983906	11.446	ppbv	97
48) Dibromochloromethane	10.30	129	1614085	12.434	ppbv	99
49) Bromoform	13.04	173	1285454	12.581	ppbv	99
50) 4-Methyl-2-Pentanone	8.73	43	3175933	12.025	ppbv	99
51) 2-Hexanone	10.13	43	2647460	12.824	ppbv #	95
52) Tetrachloroethene	11.22	164	747603	9.128	ppbv	92
53) Toluene	9.80	91	2806665	11.047	ppbv	99
54) 1,2-Dibromoethane	10.60	107	1506353	11.690	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.12	131	1202837	10.632	ppbv	97
57) Chlorobenzene	12.14	112	1911399	9.979	ppbv	97
58) Ethyl Benzene	12.70	91	3975263	10.631	ppbv	97
59) m/p-Xylene	12.99	91	6813452m	21.635	ppbv	
60) o-Xylene	13.69	91	3199666	10.783	ppbv	95
61) Styrene	13.52	104	2077563	10.906	ppbv	94
62) Isopropylbenzene	14.66	105	4500400	10.232	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.67	83	2226345	11.141	ppbv	99
64) n-propylbenzene	15.55	120	1095295	10.351	ppbv	84
65) tert-Butylbenzene	16.74	119	3742973	10.397	ppbv	89
66) Benzyl Chloride	16.99	91	1262679	14.086	ppbv	94
67) sec-Butylbenzene	17.29	105	5439728	10.796	ppbv	97
69) p-Isopropyltoluene	17.65	119	4295840	10.719	ppbv	95
70) n-Butylbenzene	18.55	91	4859330	12.268	ppbv	98
71) 2-Chlorotoluene	15.45	91	3723246	11.199	ppbv	94
72) 4-Ethyltoluene	15.83	105	3504005	10.902	ppbv	96
73) 1,3,5-Trimethylbenzene	16.00	105	3311250	10.787	ppbv	96
74) 1,2,4-Trimethylbenzene	16.76	105	3393940	11.014	ppbv	94
75) 1,3-Dichlorobenzene	17.00	146	1656440	10.739	ppbv	97
76) 1,4-Dichlorobenzene	17.14	146	1633571	10.402	ppbv	96
77) 1,2-Dichlorobenzene	17.81	146	1596720	10.842	ppbv	96
78) Hexachloro-1,3-Butadiene	23.37	225	923125	7.821	ppbv	99
79) Naphthalene	22.19	128	1672490	10.678	ppbv	98
80) Naphthalene, 2-methyl-	24.98	142	687514	19.629	ppbv	92
81) 1,2,4-Trichlorobenzene	21.92	180	926082	8.849	ppbv #	100

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

