

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052819\
 Data File : VL033801.D
 Acq On : 28 May 2019 11:46
 Operator : SY/AP
 Sample : VL0528ABS01DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0528ABS01DUP

Manual Integrations
 APPROVED

apatel
 5/29/2019 12:39:56 PM

Quant Time: May 29 04:50:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 1
 QLast Update : Fri May 17 08:15:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	999366	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2414602	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2425327m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1975707	10.05	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.50%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	1427533	6.778	ppbv 98
3) Chlorodifluoromethane	3.01	51	1038997	9.076	ppbv 100
4) Chloromethane	3.17	50	607222	9.274	ppbv 99
5) Vinyl Chloride	3.29	62	617184	9.254	ppbv 100
6) Bromomethane	3.51	94	376331	9.248	ppbv 99
7) Chloroethane	3.60	64	220094	9.286	ppbv 99
8) Dichlorotetrafluoroethane	3.22	85	1555680	9.162	ppbv 100
9) Propene	3.03	41	470506	9.663	ppbv 98
10) Heptane	8.24	43	1293945	9.385	ppbv 100
11) Trichlorofluoromethane	4.00	101	1800356	8.957	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1253989	8.933	ppbv 99
13) Ethanol	3.65	45	105828	6.725	ppbv 100
14) Bromoethene	3.78	108	504354	9.774	ppbv 98
15) Acetone	3.90	43	1111583	8.017	ppbv 99
16) 1,3-Butadiene	3.36	39	542008	9.816	ppbv 100
17) tert-Butyl alcohol	4.35	59	1149364	10.251	ppbv 100
18) 1,1-Dichloroethene	4.35	96	559697	9.447	ppbv 98
19) Isopropyl Alcohol	4.02	45	845229	9.454	ppbv 100
20) Methylene Chloride	4.40	84	472731	8.855	ppbv 98
21) Allyl Chloride	4.47	41	819748	9.478	ppbv 99
22) trans-1,2-Dichloroethene	4.96	96	574376	9.458	ppbv 96
23) Vinyl Acetate	5.15	43	1756294	9.607	ppbv 99
24) 1,1-Dichloroethane	5.09	63	1251900	9.008	ppbv 99
25) Ethyl Acetate	5.76	43	2262579	9.289	ppbv 100
26) Hexane	5.77	57	1006503	9.612	ppbv 99
27) Carbon Disulfide	4.62	76	1393670	9.701	ppbv 100
28) Methyl tert-Butyl Ether	5.11	73	1648389	9.656	ppbv 99
29) Chloroform	5.84	83	1712913	8.881	ppbv 100
30) Cyclohexane	7.24	84	859105	9.759	ppbv 99
31) cis-1,2-Dichloroethene	5.63	61	985221	9.489	ppbv 99
32) 1,1,1-Trichloroethane	6.62	97	1679621	8.721	ppbv 99
34) 2-Butanone	5.32	43	1388012	9.274	ppbv 99
35) Carbon Tetrachloride	7.13	117	1814074	9.379	ppbv 99
36) Benzene	7.00	78	2023386	9.212	ppbv 98
37) 1,2-Dichloroethane	6.41	62	1224513	8.642	ppbv 100
38) Trichloroethene	7.96	130	873501	10.717	ppbv 98
39) 1,2-Dichloropropane	7.73	63	788297	9.626	ppbv 95
40) 1,4-Dioxane	7.95	88	343929	10.040	ppbv # 95
41) Tetrahydrofuran	6.14	42	776087	9.255	ppbv 99
42) Bromodichloromethane	7.91	83	1878161	9.683	ppbv 97
43) Methyl Methacrylate	8.13	69	841326	10.408	ppbv 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.98	57	3558291	9.585	ppbv	100
45) t-1,3-Dichloropropene	9.41	75	1060922	10.353	ppbv	96
46) cis-1,3-Dichloropropene	8.83	75	1209412	10.079	ppbv	95
47) 1,1,2-Trichloroethane	9.61	97	836484	8.992	ppbv	96
48) Dibromochloromethane	10.44	129	1561143	9.685	ppbv	99
49) Bromoform	13.20	173	1427218	10.523	ppbv	99
50) 4-Methyl-2-Pentanone	8.86	43	2102254	9.132	ppbv	99
51) 2-Hexanone	10.26	43	1798466	10.010	ppbv #	100
52) Tetrachloroethene	11.36	164	763869	9.893	ppbv	97
53) Toluene	9.94	91	2348828	9.915	ppbv	99
54) 1,2-Dibromoethane	10.75	107	1311130	9.235	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.27	131	1029782	9.176	ppbv #	62
57) Chlorobenzene	12.29	112	1813387	9.083	ppbv	99
58) Ethyl Benzene	12.86	91	3331861	10.374	ppbv	98
59) m/p-Xylene	13.14	91	5632208m	20.061	ppbv	
60) o-Xylene	13.84	91	2705257	9.558	ppbv	100
61) Styrene	13.68	104	2006847	10.532	ppbv	100
62) Isopropylbenzene	14.82	105	3809054	9.994	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.83	83	1864911	9.061	ppbv	100
64) n-propylbenzene	15.72	120	946193	9.597	ppbv	97
65) tert-Butylbenzene	16.90	119	3437652	9.879	ppbv	100
66) Benzyl Chloride	17.15	91	1720772	10.382	ppbv	99
67) sec-Butylbenzene	17.45	105	4781621	9.817	ppbv	100
69) p-Isopropyltoluene	17.81	119	4023225	9.994	ppbv	100
70) n-Butylbenzene	18.71	91	4102406	9.503	ppbv	99
71) 2-Chlorotoluene	15.61	91	2750538	9.727	ppbv	99
72) 4-Ethyltoluene	15.99	105	3232271	9.989	ppbv	99
73) 1,3,5-Trimethylbenzene	16.15	105	3109590	9.849	ppbv	99
74) 1,2,4-Trimethylbenzene	16.92	105	3290683	9.577	ppbv	98
75) 1,3-Dichlorobenzene	17.16	146	1912475	9.083	ppbv	100
76) 1,4-Dichlorobenzene	17.30	146	1895918	9.474	ppbv	99
77) 1,2-Dichlorobenzene	17.98	146	1821408	9.206	ppbv	100
78) Hexachloro-1,3-Butadiene	23.54	225	1031812	6.898	ppbv	99
79) Naphthalene	22.40	128	2463953	7.720	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	664724	5.481	ppbv	95
81) 1,2,4-Trichlorobenzene	22.13	180	1442174	7.717	ppbv	100

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

