Quantitation Report (Not Reviewed)

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL121317\
Data File : VL031233.D
Acq On : 14 Dec 2017 15:51
Operator : SY/AP
Sample : I6907-02
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId :

Quant Time: Dec 15 05:16:38 2017
Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL121317AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Dec 14 04:29:58 2017
QLast Update : Thu Dec 14 04:29:58 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	5.91	49	1479691	10.00	ppbv		0.00
33) 1,4-Difluorobenzene	7.45	114	3559372	10.00	ppbv		0.00
55) Chlorobenzene-d5	12.41	117	2844431	10.00	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	14.74	95	2401479	11.87	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 118.70%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.18	85	87848	0.703	ppbv		100
3) Chlorodifluoromethane	3.11	51	71141	0.423	ppbv	#	89
4) Chloromethane	3.27	50	6059	0.067	ppbv		93
7) Chloroethane	3.71	64	132263	3.799	ppbv		98
9) Propene	3.34	41	126284	1.529	ppbv		99
10) Heptane	8.40	43	12630	0.050	ppbv	#	28
11) Trichlorofluoromethane	4.13	101	227844	1.109	ppbv		96
12) 1,1,2-Trichlorotrifluoroet	4.69	101	202983	1.410	ppbv		96
13) Ethanol	3.77	45	228723	9.604	ppbv		97
15) Acetone	4.03	43	380327	1.948	ppbv	#	85
16) 1,3-Butadiene	3.45	39	14601	0.174	ppbv	#	14
17) tert-Butyl alcohol	4.49	59	16793	0.153	ppbv	#	73
18) 1,1-Dichloroethene	4.48	96	213788	3.315	ppbv		96
19) Isopropyl Alcohol	4.16	45	189138	1.530	ppbv	#	44
20) Methylene Chloride	4.54	84	148289	2.295	ppbv		94
22) trans-1,2-Dichloroethene	5.10	96	107583	1.357	ppbv		98
23) Vinyl Acetate	5.29	43	14666	0.047	ppbv	#	1
24) 1,1-Dichloroethane	5.23	63	2801866	12.263	ppbv		99
25) Ethyl Acetate	5.93	43	63888	0.160	ppbv	#	85
26) Hexane	5.93	57	81169	0.429	ppbv	#	47
29) Chloroform	6.00	83	8451	0.033	ppbv		92
30) Cyclohexane	7.41	84	7626	0.046	ppbv	#	7
31) cis-1,2-Dichloroethene	5.79	61	29404	0.171	ppbv		93
32) 1,1,1-Trichloroethane	6.77	97	12742744	46.650	ppbv		93
34) 2-Butanone	5.49	43	35423	0.141	ppbv		99
36) Benzene	7.16	78	40450	0.107	ppbv		94
37) 1,2-Dichloroethane	6.77	62	1023204	4.916	ppbv	#	1
39) 1,2-Dichloropropane	7.45	63	860948	6.455	ppbv	#	27
44) 2,2,4-Trimethylpentane	8.15	57	22375	0.039	ppbv	#	1
53) Toluene	10.12	91	214186	0.523	ppbv		98
58) Ethyl Benzene	13.03	91	22370	0.048	ppbv		92
59) m/p-Xylene	13.29	91	140354	0.373	ppbv		99
60) o-Xylene	14.02	91	53179	0.140	ppbv		96
72) 4-Ethyltoluene	16.17	105	19586	0.047	ppbv	#	93
74) 1,2,4-Trimethylbenzene	17.09	105	52773	0.136	ppbv	#	71

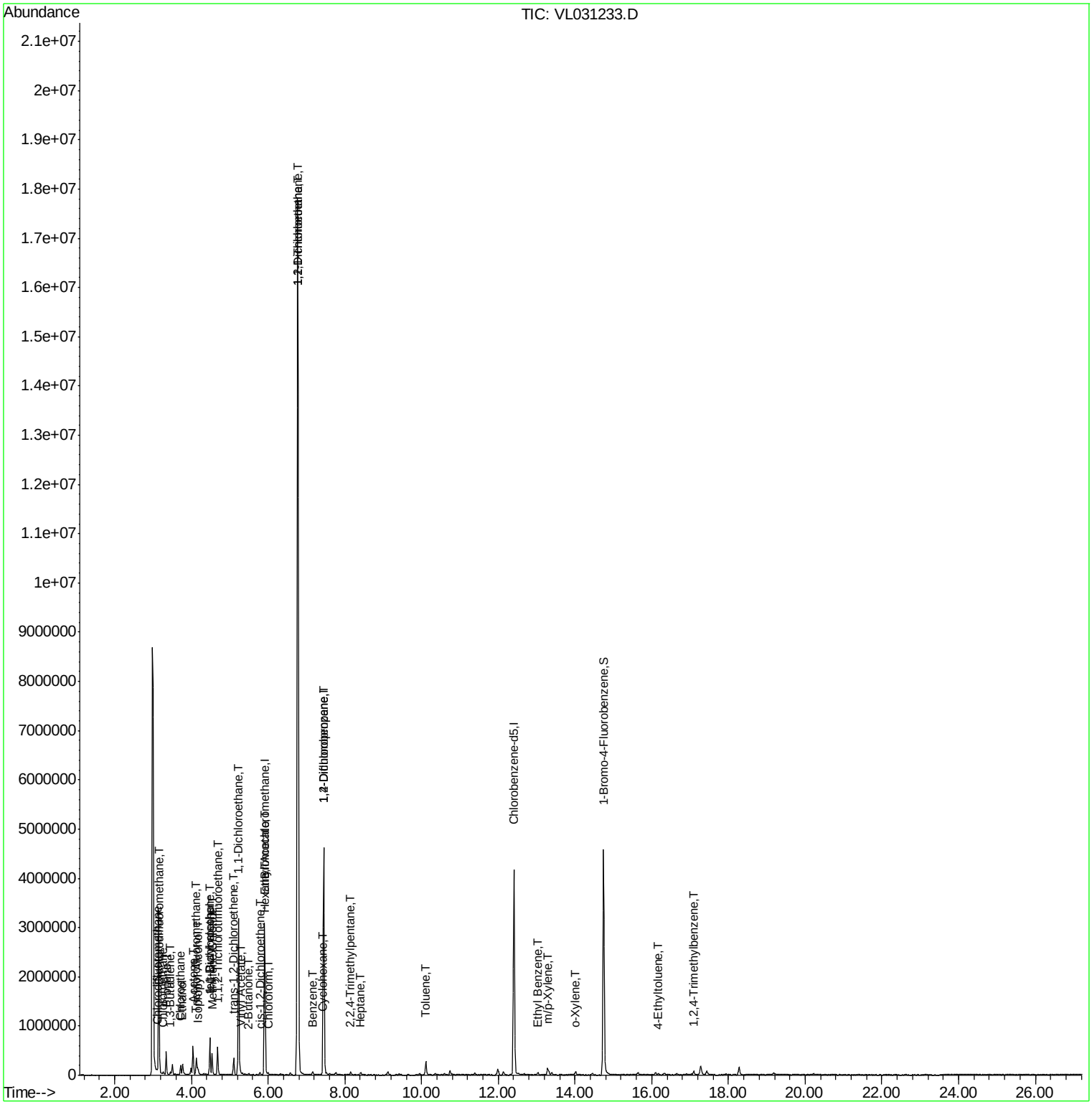
(#) = qualifier out of range (m) = manual integration (+) = signals summed

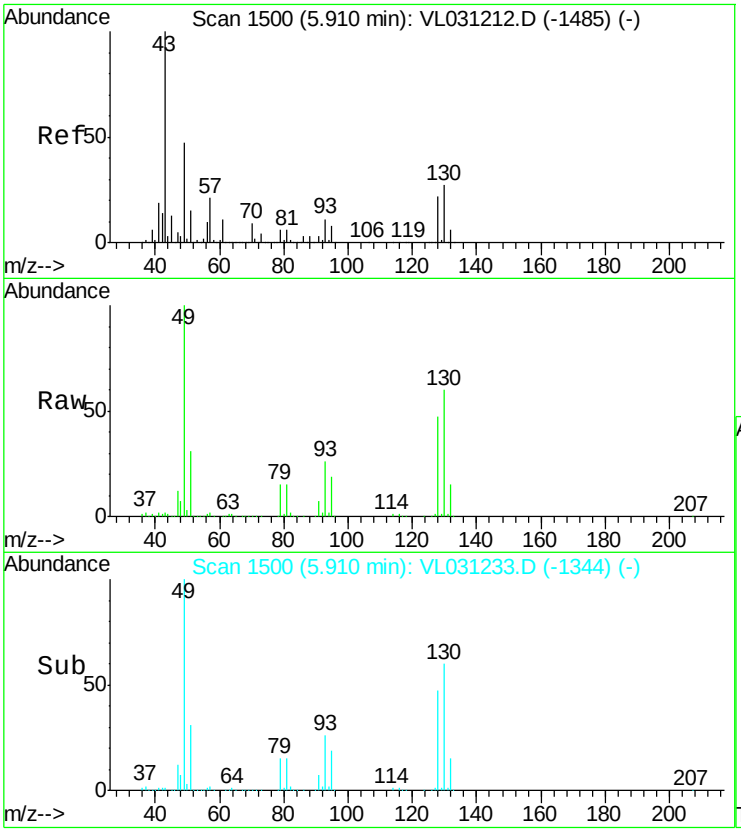
Quantitation Report (Not Reviewed)

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL121317\
Data File : VL031233.D
Acq On : 14 Dec 2017 15:51
Operator : SY/AP
Sample : I6907-02
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: Dec 15 05:16:38 2017
Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL121317AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Dec 14 04:29:58 2017
QLast Update : Thu Dec 14 04:29:58 2017
Response via : Initial Calibration



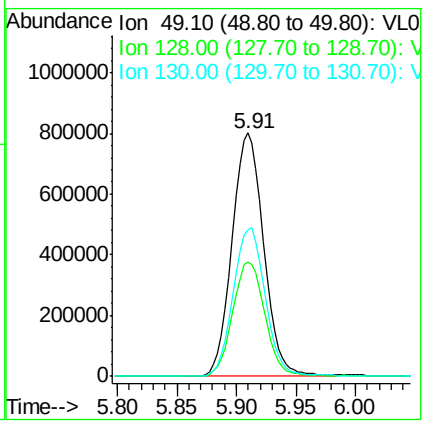


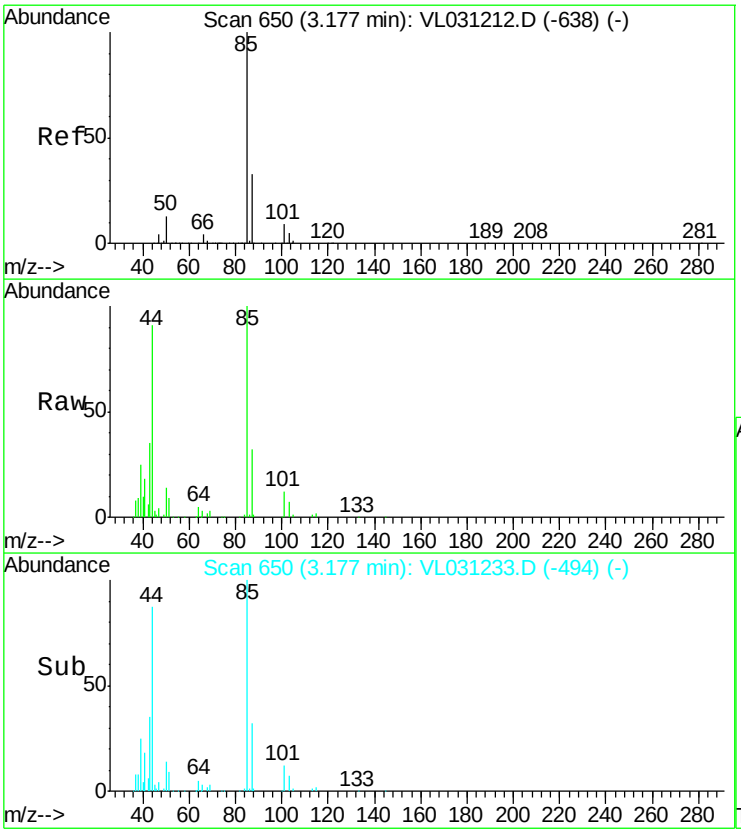
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.91 min Scan# 1500
Delta R.T. 0.00 min
Lab File: VL031233.D
Acq: 14 Dec 2017 15:51

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 49 Resp: 1479691

Ion	Ratio	Lower	Upper
49	100		
128	47.8	23.2	69.5
130	62.3	29.6	88.8

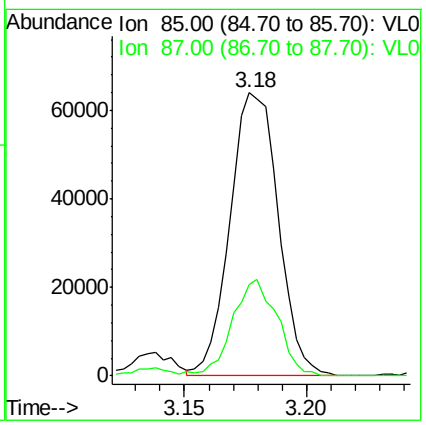


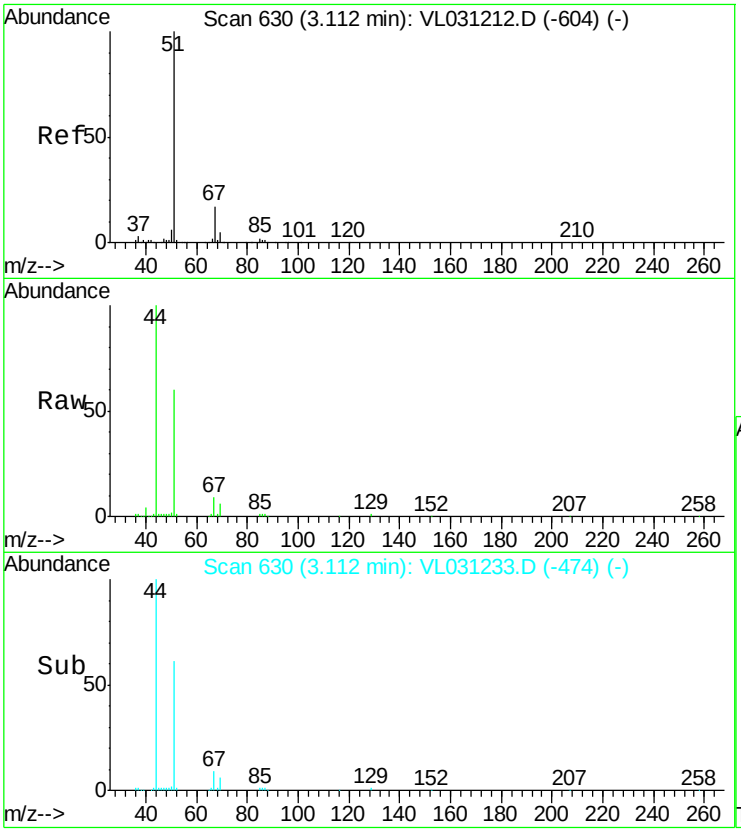


#2
Dichlorodifluoromethane
Concen: 0.703 ppbv
RT: 3.18 min Scan# 650
Delta R.T. 0.00 min
Lab File: VL031233.D
Acq: 14 Dec 2017 15:51

Tgt Ion: 85 Resp: 87848

Ion	Ratio	Lower	Upper
85	100		
87	32.5	26.2	39.2



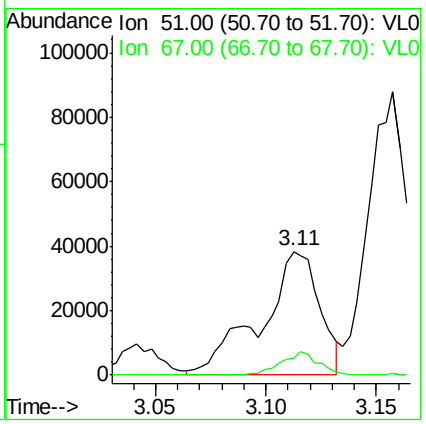


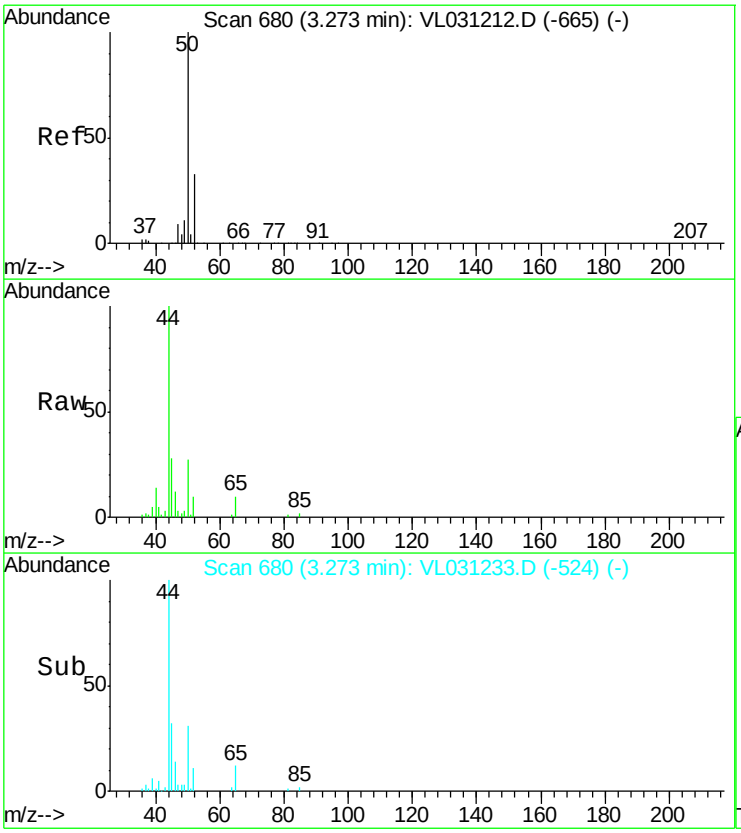
#3
Chlorodifluoromethane
Concen: 0.423 ppbv
RT: 3.11 min Scan# 630
Delta R.T. 0.00 min
Lab File: VL031233.D
Acq: 14 Dec 2017 15:51

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 51 Resp: 71141

Ion	Ratio	Lower	Upper
51	100		
67	12.5	13.8	20.6#

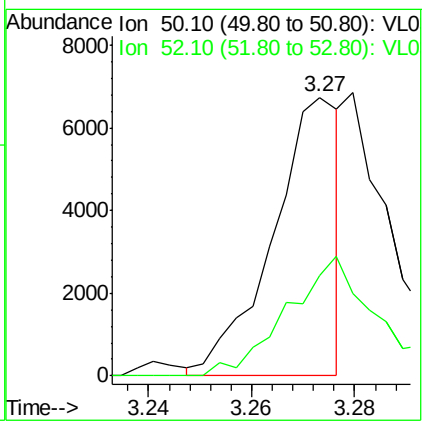


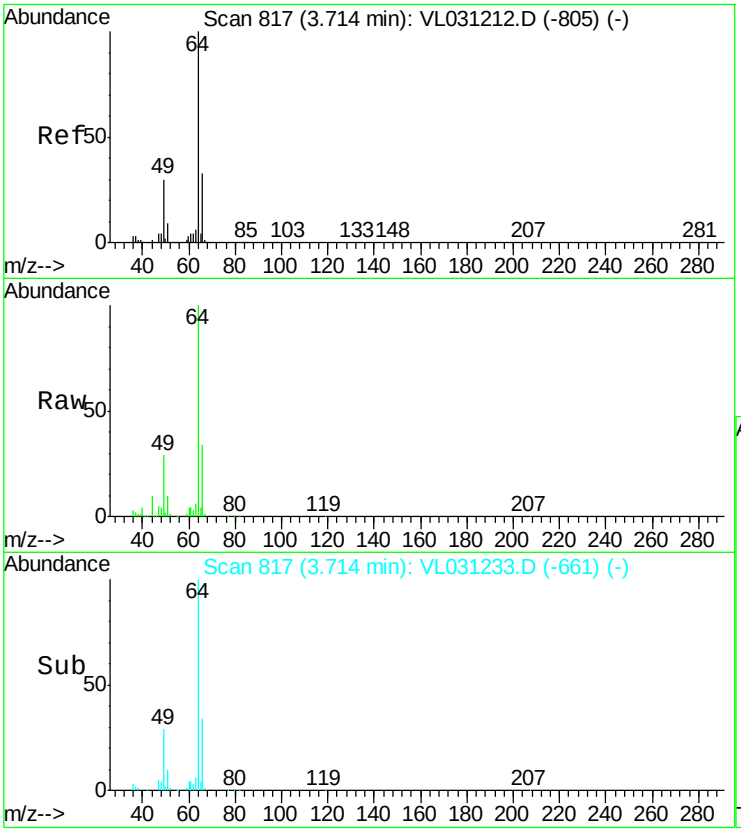


#4
Chloromethane
Concen: 0.067 ppbv
RT: 3.27 min Scan# 680
Delta R.T. 0.00 min
Lab File: VL031233.D
Acq: 14 Dec 2017 15:51

Tgt Ion: 50 Resp: 6059

Ion	Ratio	Lower	Upper
50	100		
52	37.1	26.5	39.7



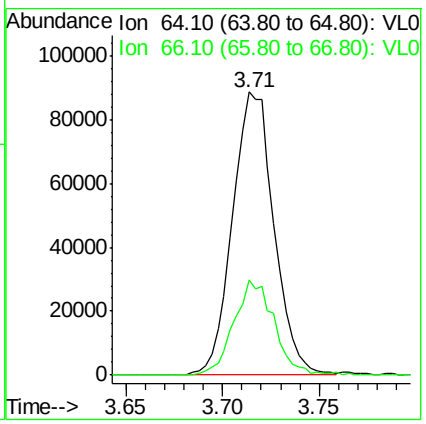


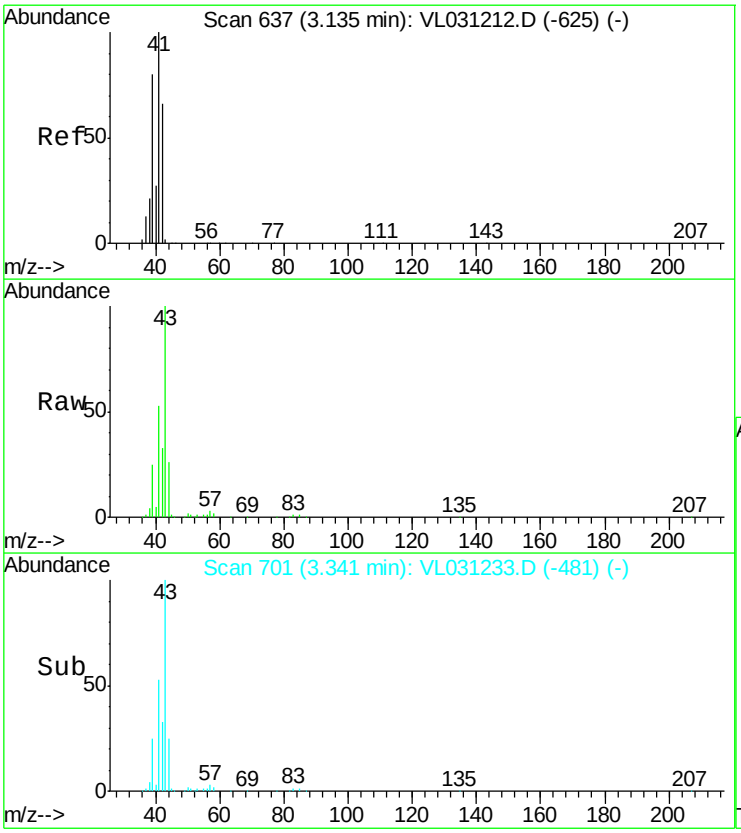
#7
Chloroethane
Concen: 3.799 ppbv
RT: 3.71 min Scan# 817
Delta R.T. 0.00 min
Lab File: VL031233.D
Acq: 14 Dec 2017 15:51

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 64 Resp: 132263

Ion	Ratio	Lower	Upper
64	100		
66	33.8	26.2	39.2

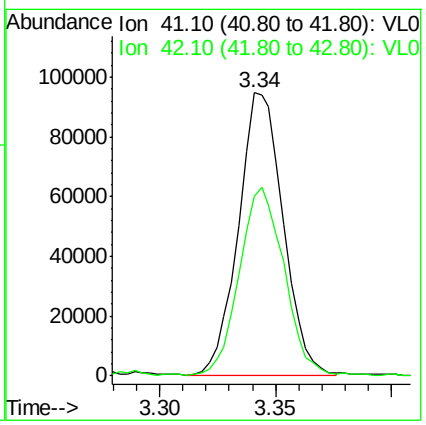


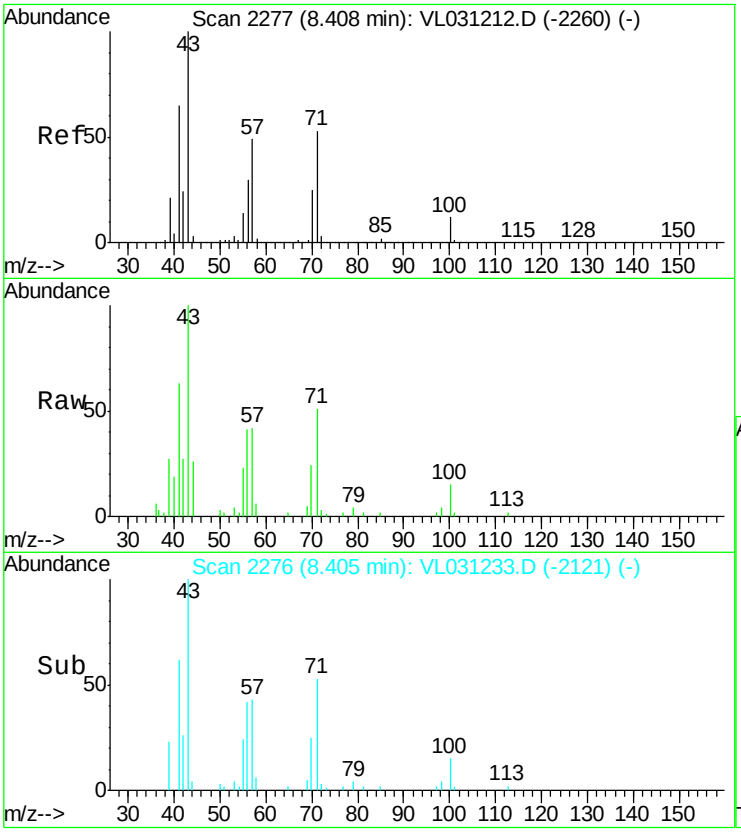


#9
Propene
Concen: 1.529 ppbv
RT: 3.34 min Scan# 701
Delta R.T. 0.21 min
Lab File: VL031233.D
Acq: 14 Dec 2017 15:51

Tgt Ion: 41 Resp: 126284

Ion	Ratio	Lower	Upper
41	100		
42	66.7	54.3	81.5



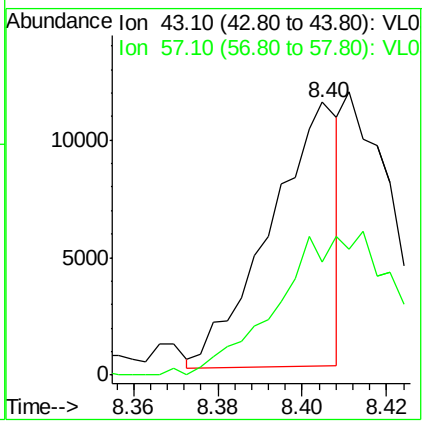


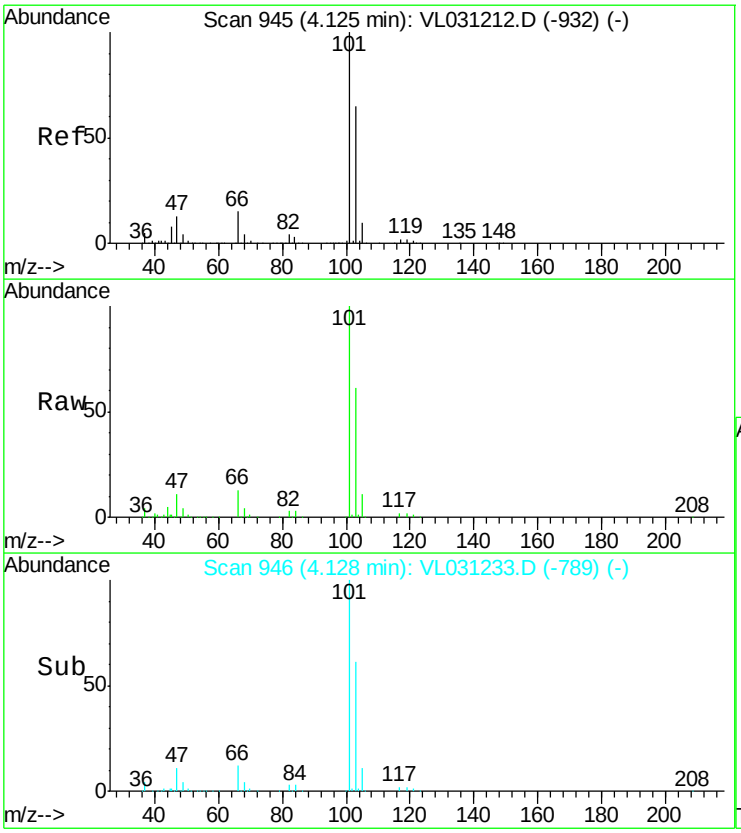
#10
Heptane
Concen: 0.050 ppbv
RT: 8.40 min Scan# 2276
Delta R.T. -0.00 min
Lab File: VL031233.D
Acq: 14 Dec 2017 15:51

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 43 Resp: 12630

Ion	Ratio	Lower	Upper
43	100		
57	0.0	39.8	59.8#

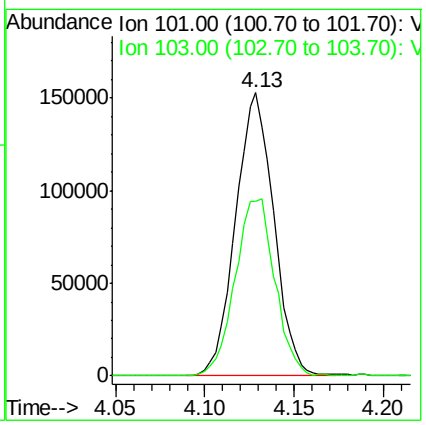


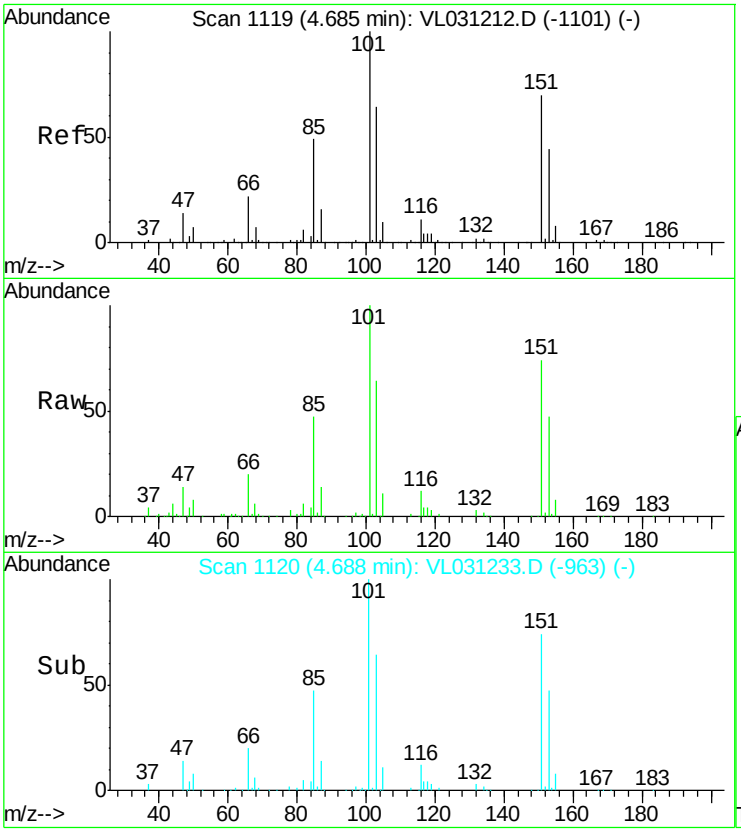


#11
Trichlorofluoromethane
Concen: 1.109 ppbv
RT: 4.13 min Scan# 946
Delta R.T. 0.00 min
Lab File: VL031233.D
Acq: 14 Dec 2017 15:51

Tgt Ion:101 Resp: 227844

Ion	Ratio	Lower	Upper
101	100		
103	61.3	51.8	77.8



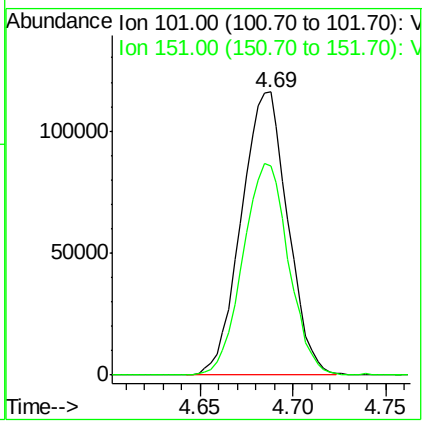


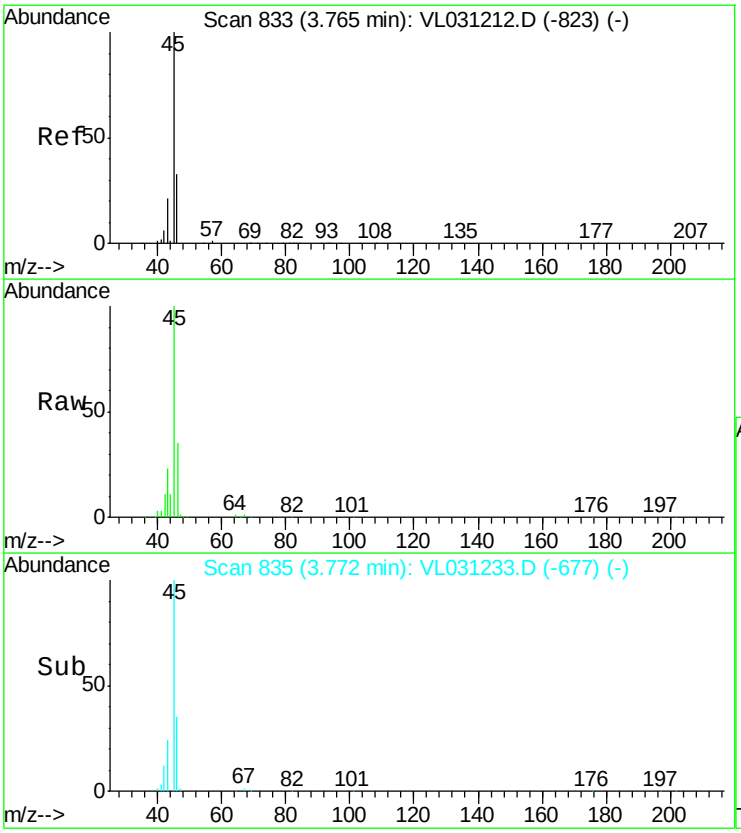
#12
1,1,2-Trichlorotrifluoroethane
Concen: 1.410 ppbv
RT: 4.69 min Scan# 1120
Delta R.T. 0.00 min
Lab File: VL031233.D
Acq: 14 Dec 2017 15:51

Instrument : MSVOA_L
ClientSampleId :

Tgt Ion:101 Resp: 202983

Ion	Ratio	Lower	Upper
101	100		
151	73.6	56.5	84.7

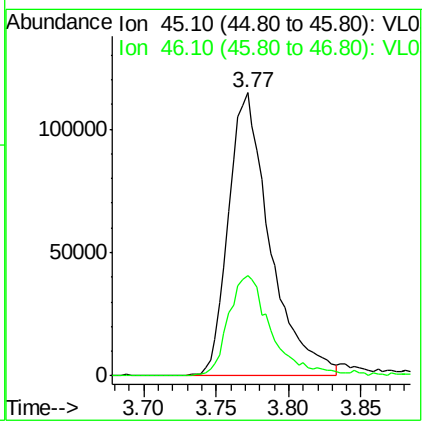


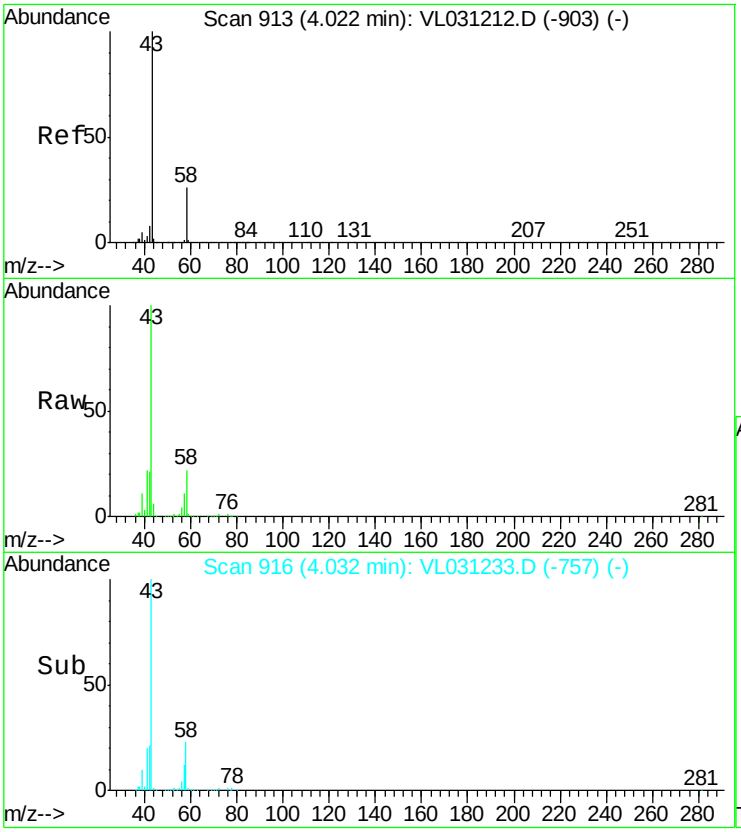


#13
Ethanol
Concen: 9.604 ppbv
RT: 3.77 min Scan# 835
Delta R.T. 0.01 min
Lab File: VL031233.D
Acq: 14 Dec 2017 15:51

Tgt Ion: 45 Resp: 228723

Ion	Ratio	Lower	Upper
45	100		
46	38.2	14.6	58.4



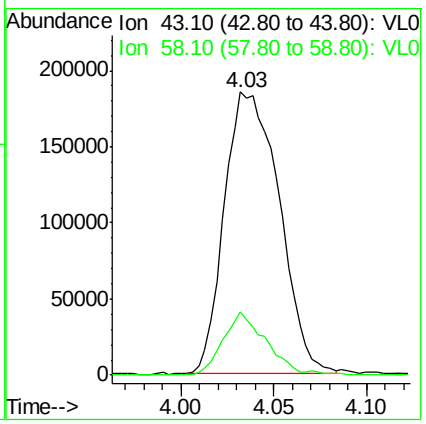


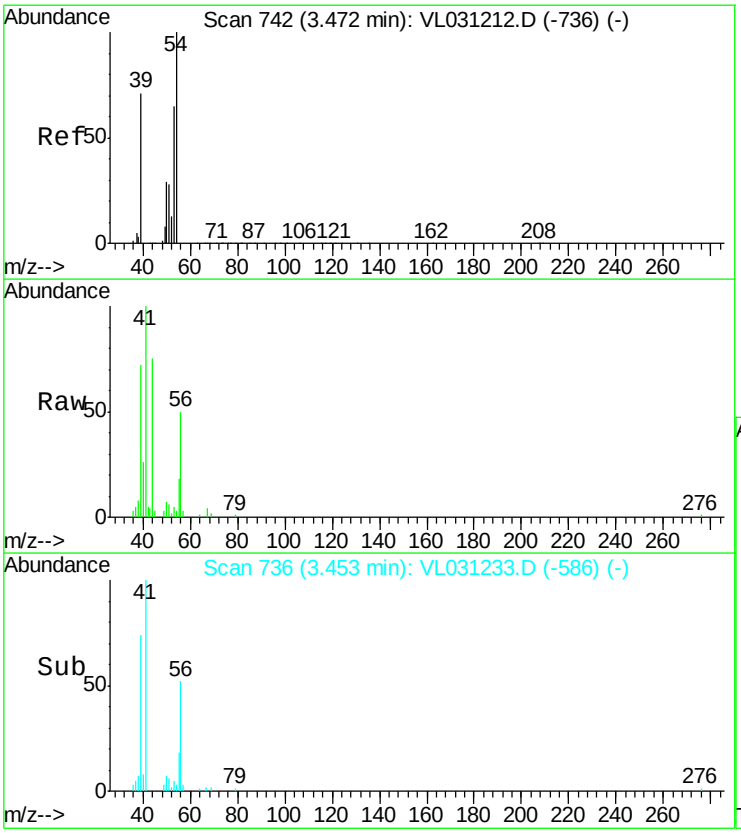
#15
Acetone
Concen: 1.948 ppbv
RT: 4.03 min Scan# 916
Delta R.T. 0.01 min
Lab File: VL031233.D
Acq: 14 Dec 2017 15:51

Instrument : MSVOA_L
ClientSampleId :

Tgt Ion: 43 Resp: 380327

Ion	Ratio	Lower	Upper
43	100		
58	17.8	20.3	30.5#

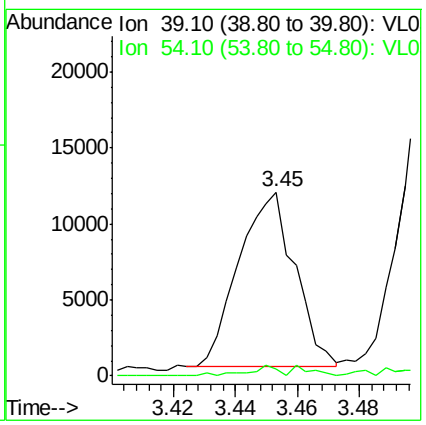


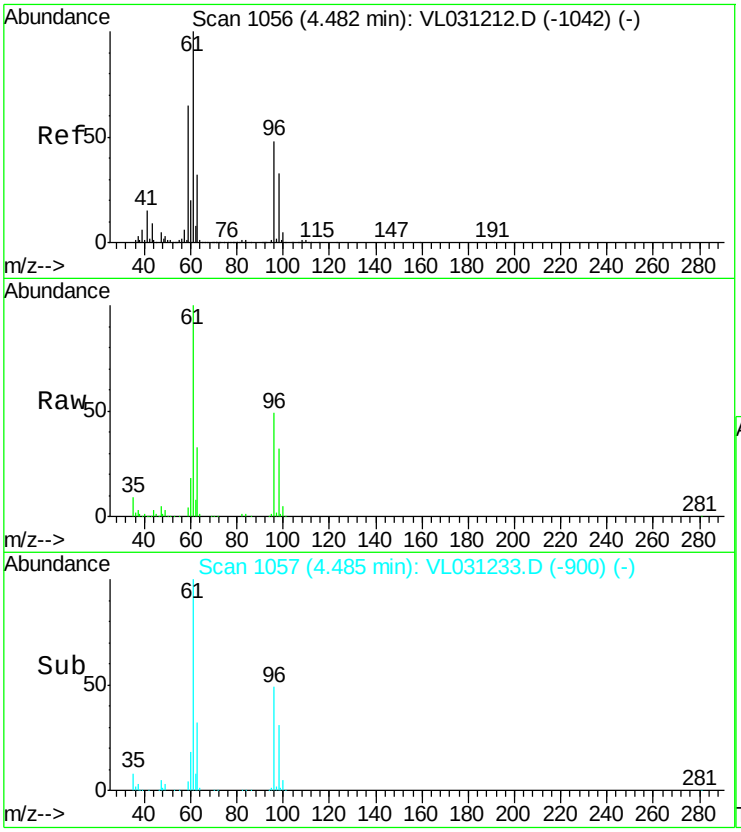


#16
1,3-Butadiene
Concen: 0.174 ppbv
RT: 3.45 min Scan# 736
Delta R.T. -0.02 min
Lab File: VL031233.D
Acq: 14 Dec 2017 15:51

Tgt Ion: 39 Resp: 14601

Ion	Ratio	Lower	Upper
39	100		
54	5.2	66.4	99.6#



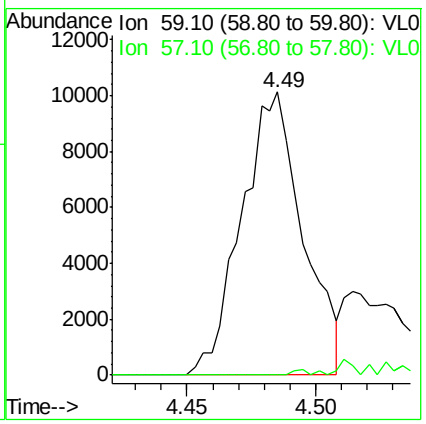


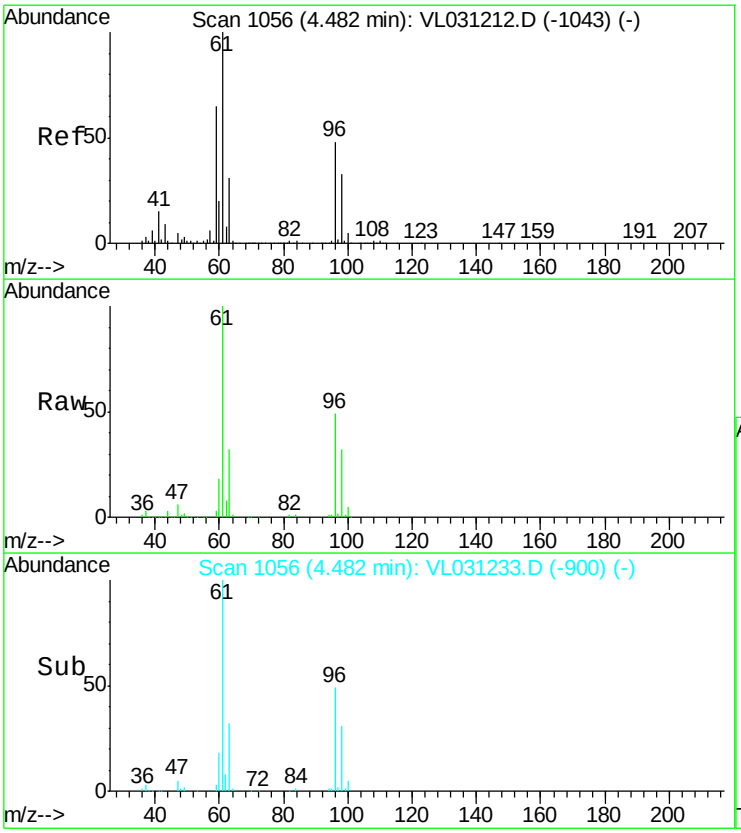
#17
tert-Butyl alcohol
Concen: 0.153 ppbv
RT: 4.49 min Scan# 1057
Delta R.T. 0.00 min
Lab File: VL031233.D
Acq: 14 Dec 2017 15:51

Instrument : MSVOA_L
ClientSampleId :

Tgt Ion: 59 Resp: 16793

Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.2	12.2#

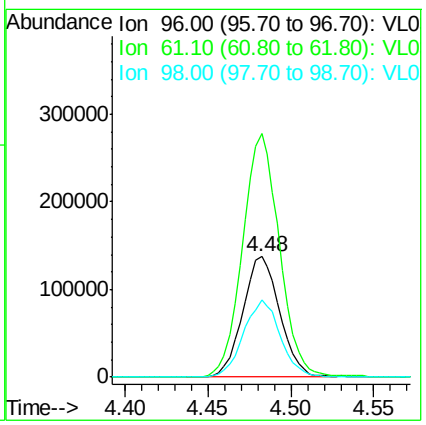


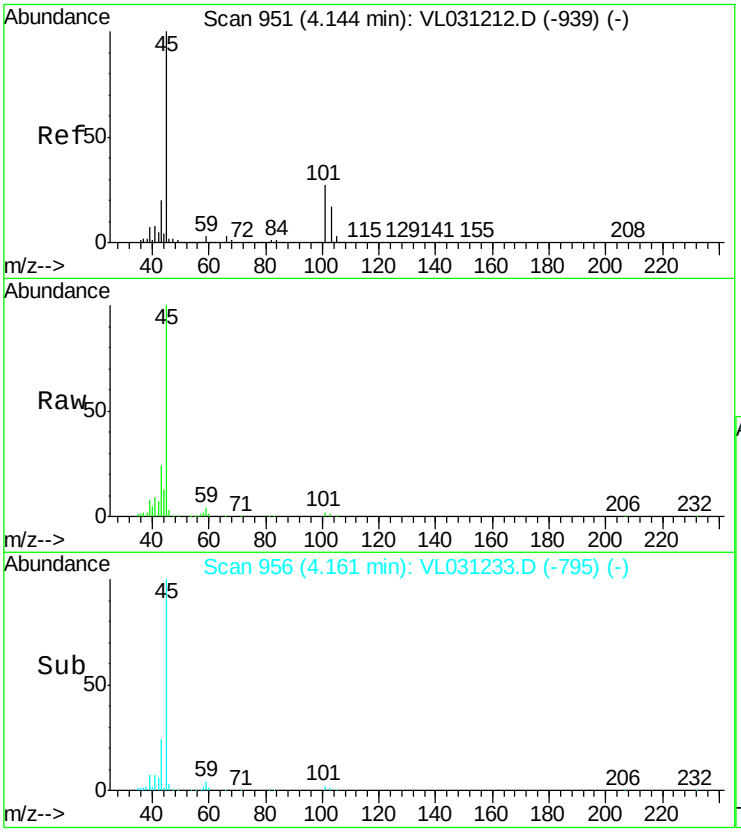


#18
1,1-Dichloroethene
Concen: 3.315 ppbv
RT: 4.48 min Scan# 1056
Delta R.T. 0.00 min
Lab File: VL031233.D
Acq: 14 Dec 2017 15:51

Tgt Ion: 96 Resp: 213788

Ion	Ratio	Lower	Upper
96	100		
61	202.7	166.8	250.2
98	64.0	55.0	82.6



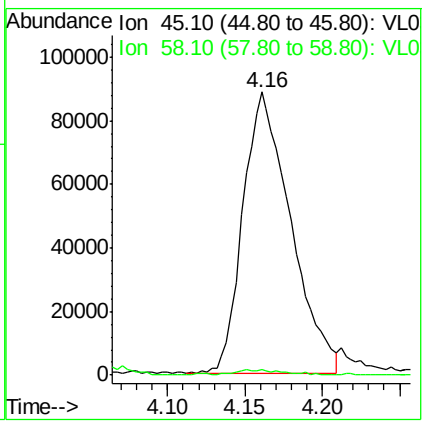


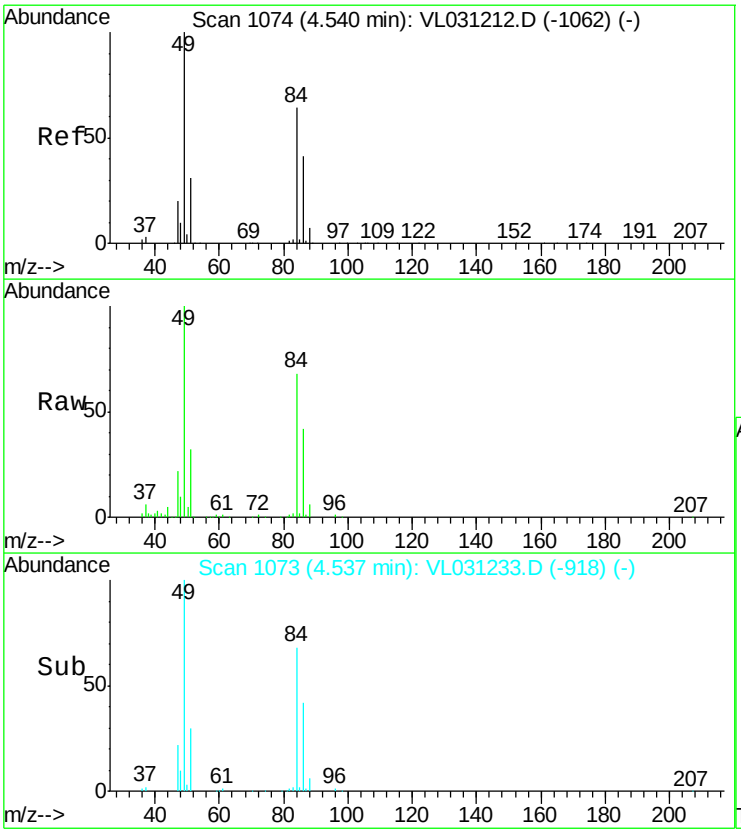
#19
Isopropyl Alcohol
Concen: 1.530 ppbv
RT: 4.16 min Scan# 956
Delta R.T. 0.02 min
Lab File: VL031233.D
Acq: 14 Dec 2017 15:51

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 45 Resp: 189138

Ion	Ratio	Lower	Upper
45	100		
58	2.2	27.2	40.8#

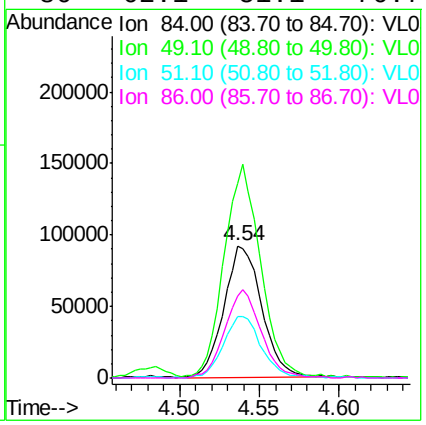


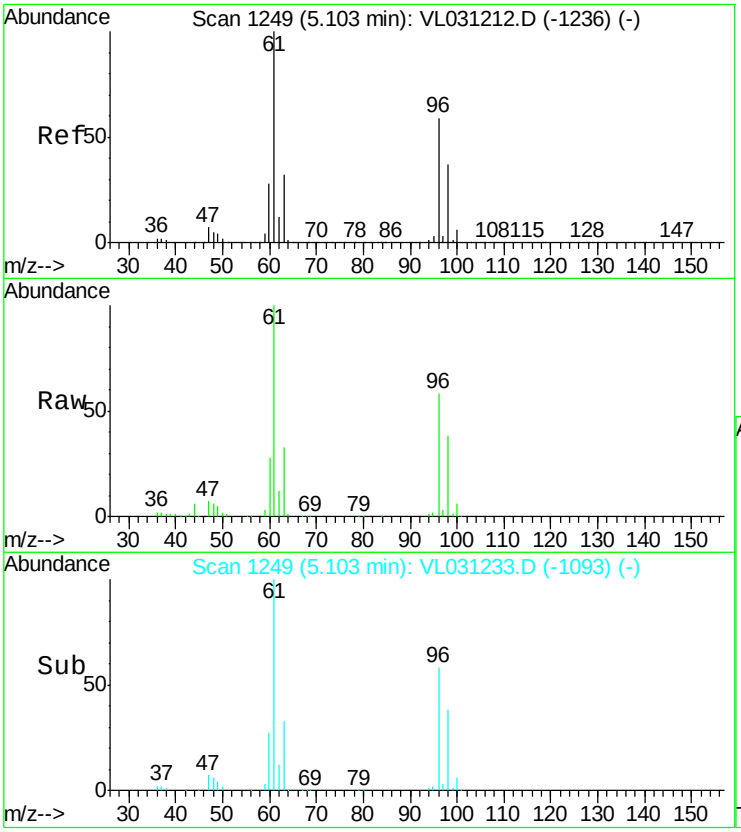


#20
Methylene Chloride
Concen: 2.295 ppbv
RT: 4.54 min Scan# 1073
Delta R.T. -0.00 min
Lab File: VL031233.D
Acq: 14 Dec 2017 15:51

Tgt Ion: 84 Resp: 148289

Ion	Ratio	Lower	Upper
84	100		
49	147.2	125.8	188.6
51	46.7	39.3	58.9
86	62.1	51.1	76.7



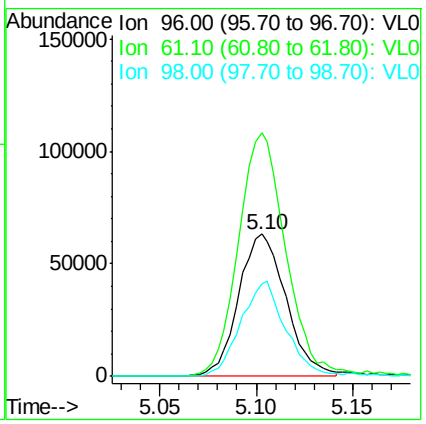


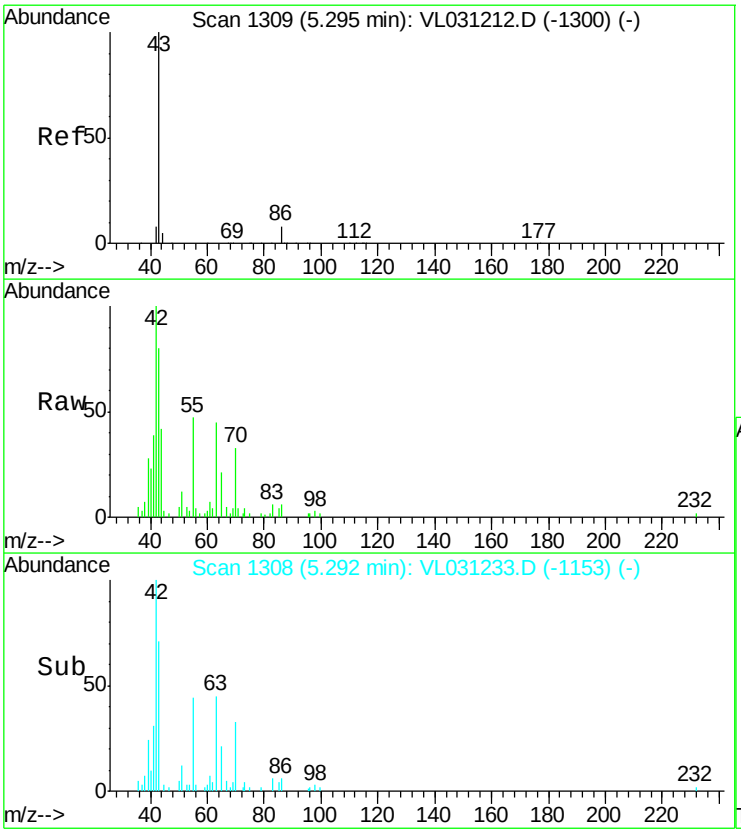
#22
trans-1,2-Dichloroethene
Concen: 1.357 ppbv
RT: 5.10 min Scan# 1249
Delta R.T. 0.00 min
Lab File: VL031233.D
Acq: 14 Dec 2017 15:51

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 96 Resp: 107583

Ion	Ratio	Lower	Upper
96	100		
61	171.5	135.0	202.4
98	64.8	50.5	75.7

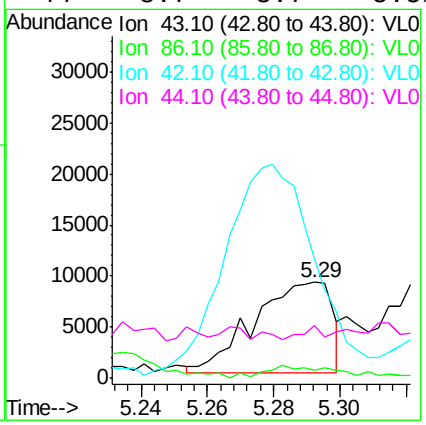


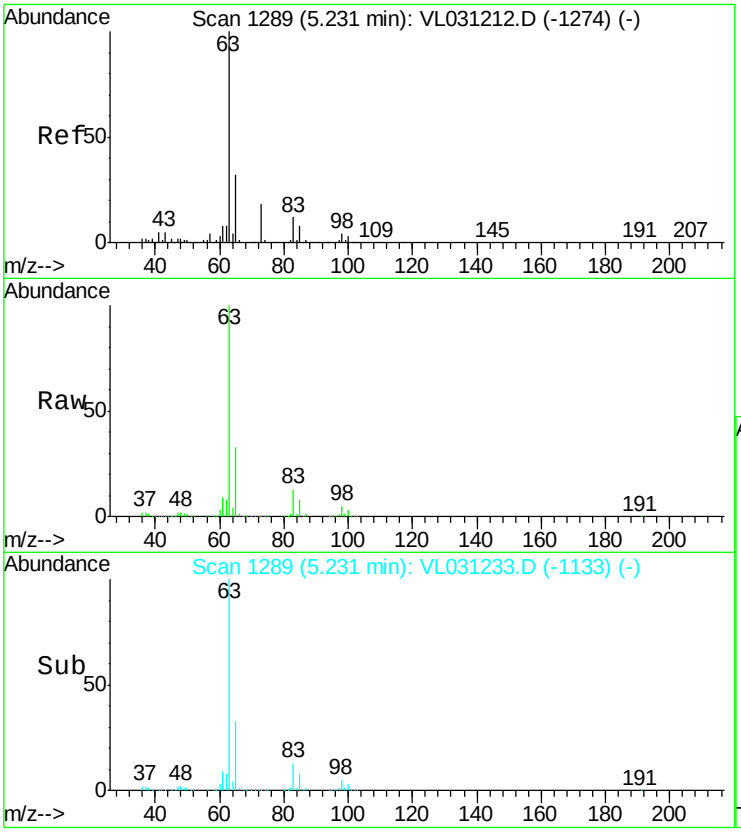


#23
Vinyl Acetate
Concen: 0.047 ppbv
RT: 5.29 min Scan# 1308
Delta R.T. -0.00 min
Lab File: VL031233.D
Acq: 14 Dec 2017 15:51

Tgt Ion: 43 Resp: 14666

Ion	Ratio	Lower	Upper
43	100		
86	3.8	5.9	8.9#
42	109.6	7.3	10.9#
44	8.7	3.7	5.5#



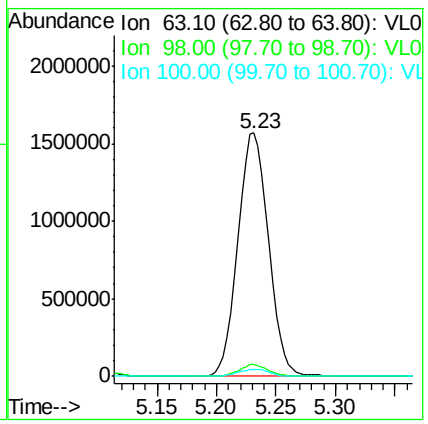


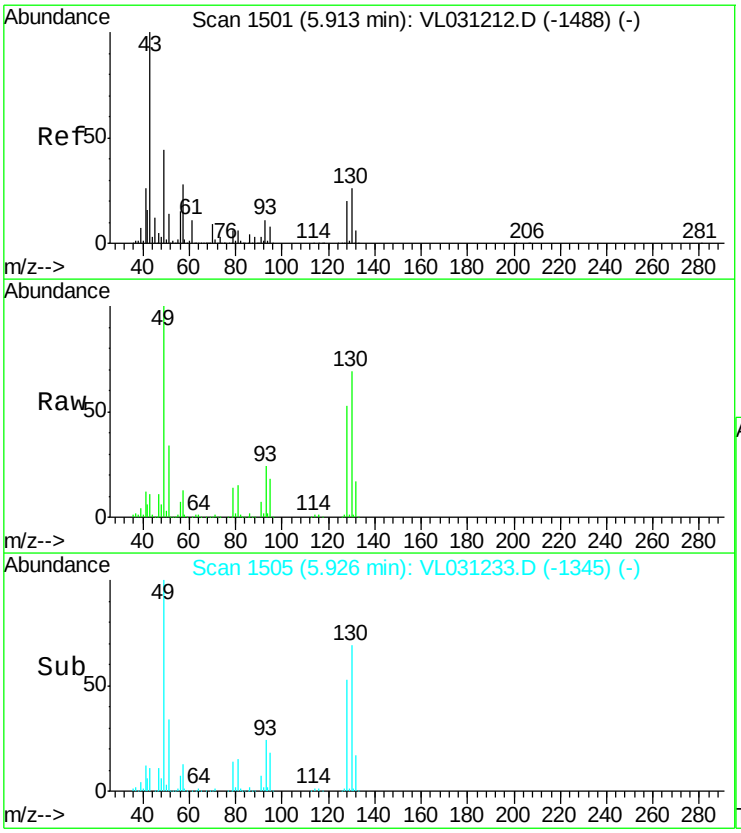
#24
1,1-Dichloroethane
Concen: 12.263 ppbv
RT: 5.23 min Scan# 1289
Delta R.T. 0.00 min
Lab File: VL031233.D
Acq: 14 Dec 2017 15:51

Instrument : MSVOA_L
ClientSampleId :

Tgt Ion: 63 Resp: 2801866

Ion	Ratio	Lower	Upper
63	100		
98	4.8	2.3	6.8
100	2.8	1.4	4.2

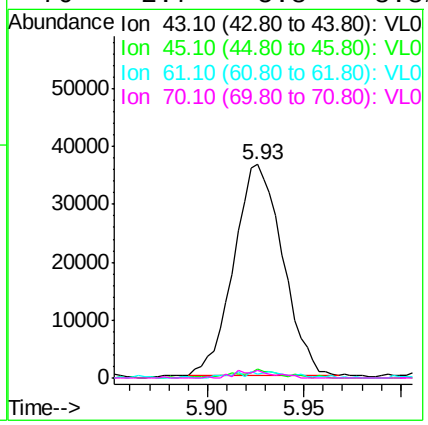


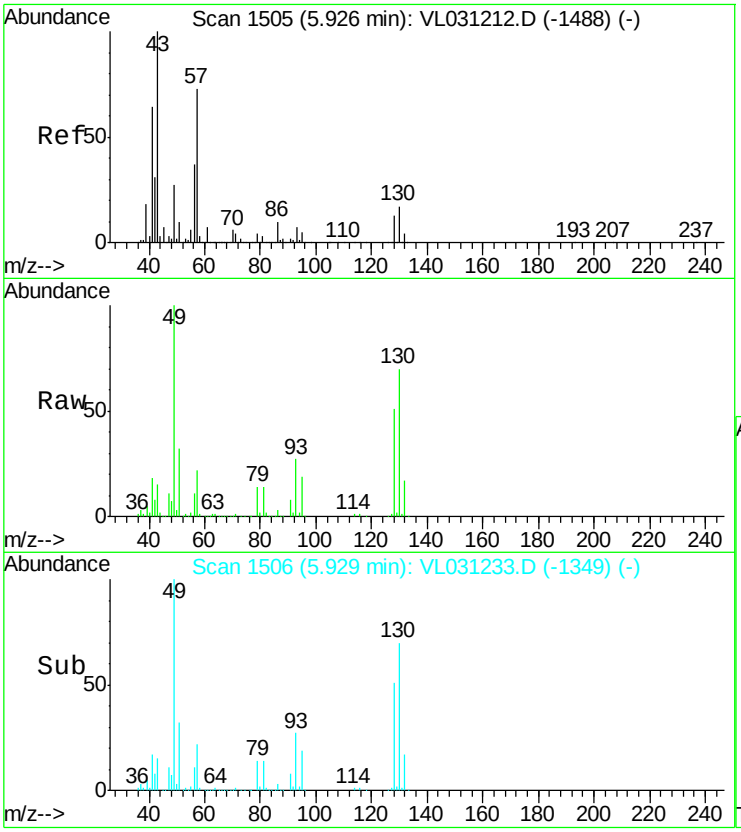


#25
Ethyl Acetate
Concen: 0.160 ppbv
RT: 5.93 min Scan# 1505
Delta R.T. 0.01 min
Lab File: VL031233.D
Acq: 14 Dec 2017 15:51

Tgt Ion: 43 Resp: 63888

Ion	Ratio	Lower	Upper
43	100		
45	3.9	8.0	12.0#
61	3.6	7.4	11.0#
70	2.7	5.8	8.8#



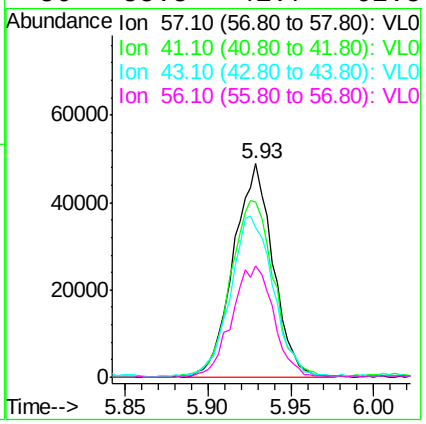


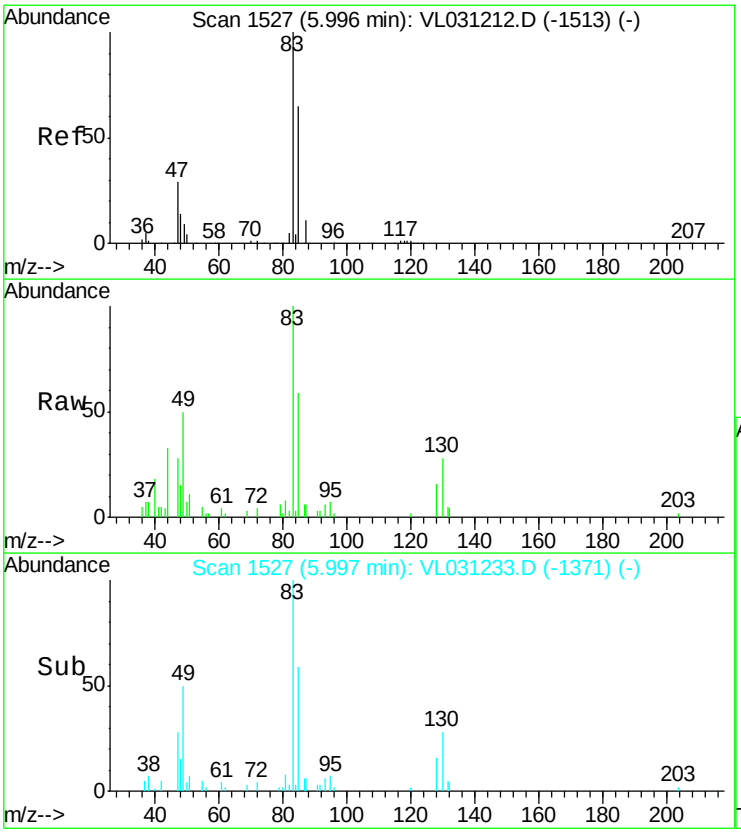
#26
Hexane
Concen: 0.429 ppbv
RT: 5.93 min Scan# 1506
Delta R.T. 0.00 min
Lab File: VL031233.D
Acq: 14 Dec 2017 15:51

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 57 Resp: 81169

Ion	Ratio	Lower	Upper
57	100		
41	91.0	70.3	105.5
43	82.5	173.8	260.8#
56	55.5	41.7	62.5

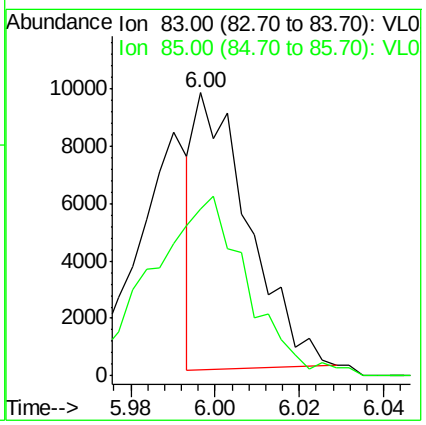


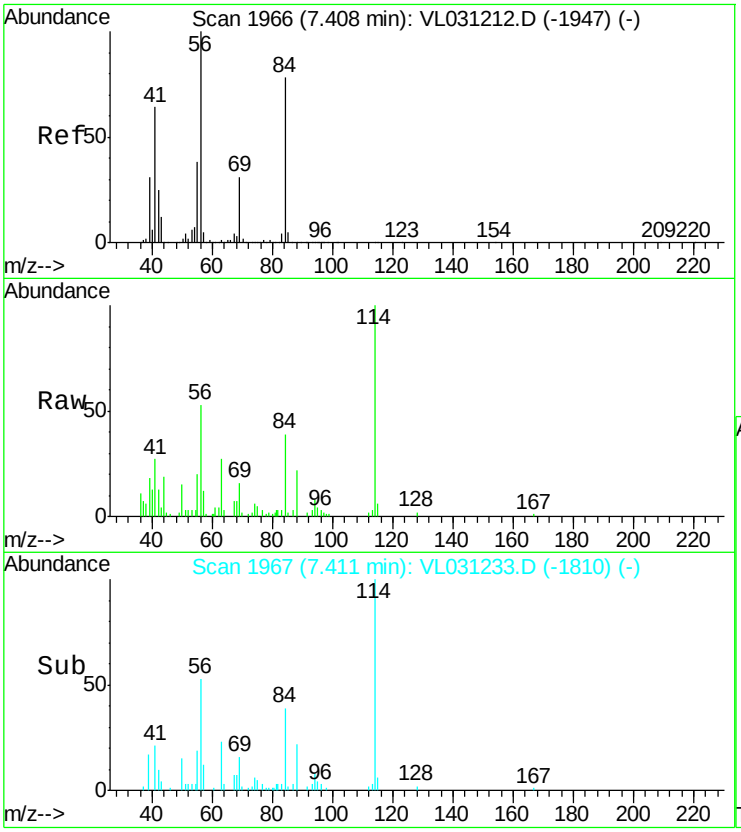


#29
Chloroform
Concen: 0.033 ppbv
RT: 6.00 min Scan# 1527
Delta R.T. 0.00 min
Lab File: VL031233.D
Acq: 14 Dec 2017 15:51

Tgt Ion: 83 Resp: 8451

Ion	Ratio	Lower	Upper
83	100		
85	58.6	51.8	77.6



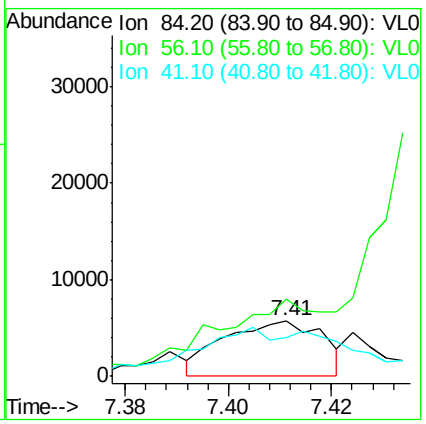


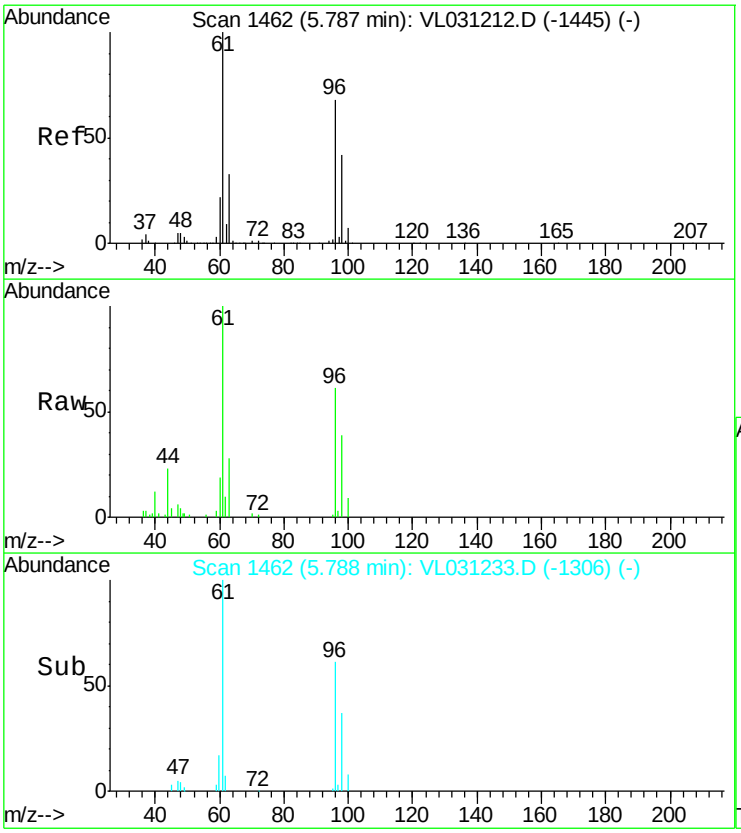
#30
Cyclohexane
Concen: 0.046 ppbv
RT: 7.41 min Scan# 1967
Delta R.T. 0.00 min
Lab File: VL031233.D
Acq: 14 Dec 2017 15:51

Instrument : MSVOA_L
ClientSampleId :

Tgt Ion: 84 Resp: 7626

Ion	Ratio	Lower	Upper
84	100		
56	0.0	108.0	162.0#
41	136.0	66.2	99.4#

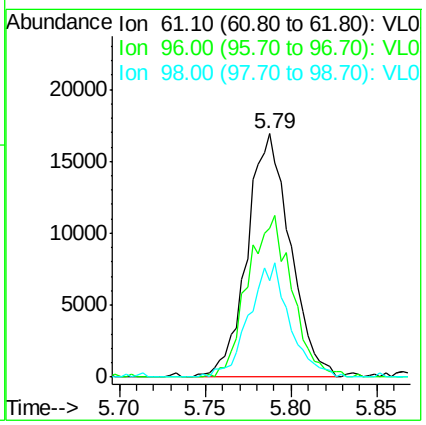


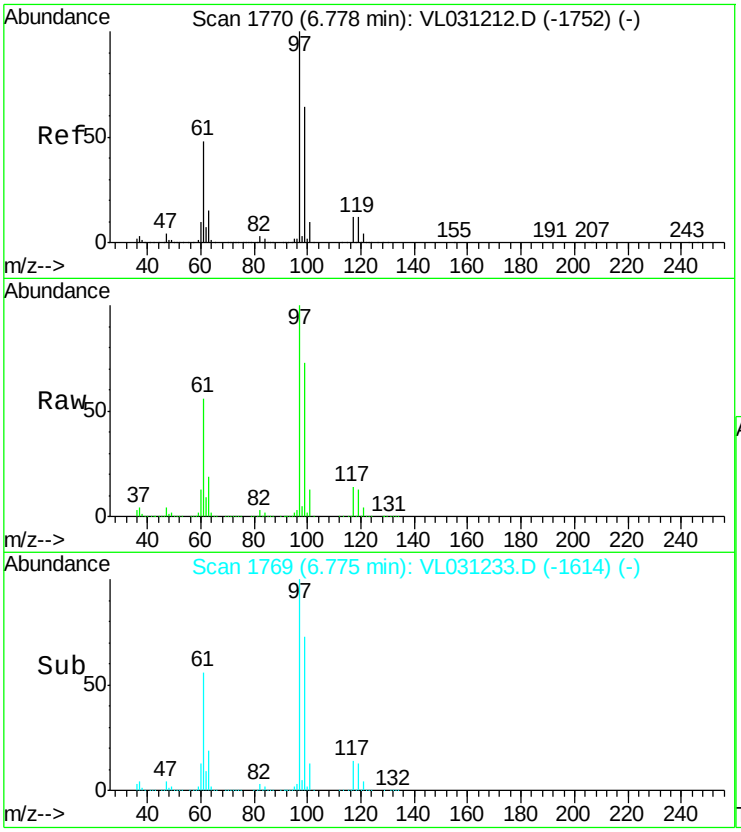


#31
cis-1,2-Dichloroethene
Concen: 0.171 ppbv
RT: 5.79 min Scan# 1462
Delta R.T. 0.00 min
Lab File: VL031233.D
Acq: 14 Dec 2017 15:51

Tgt Ion: 61 Resp: 29404

Ion	Ratio	Lower	Upper
61	100		
96	61.4	54.4	81.6
98	39.4	33.6	50.4



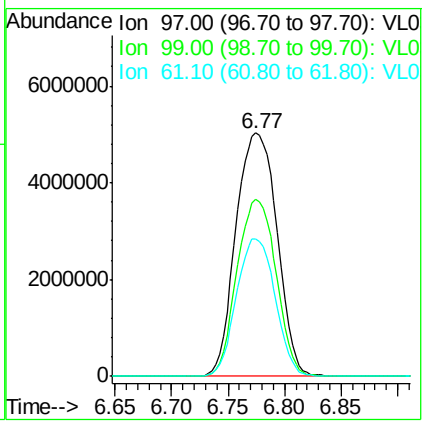


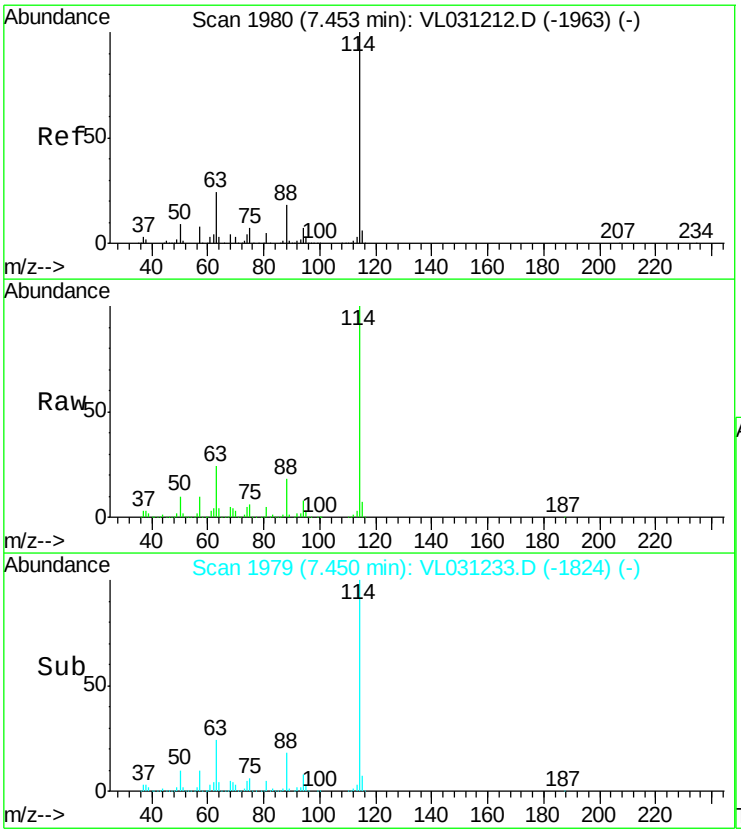
#32
1,1,1-Trichloroethane
Concen: 46.650 ppbv
RT: 6.77 min Scan# 1769
Delta R.T. -0.00 min
Lab File: VL031233.D
Acq: 14 Dec 2017 15:51

Instrument : MSVOA_L
ClientSampleId :

Tgt Ion: 97 Resp:12742744

Ion	Ratio	Lower	Upper
97	100		
99	69.3	51.4	77.0
61	53.3	38.4	57.6

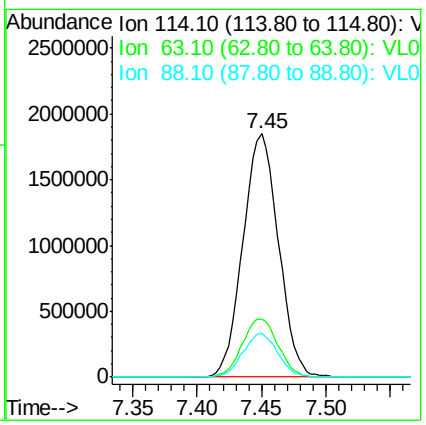


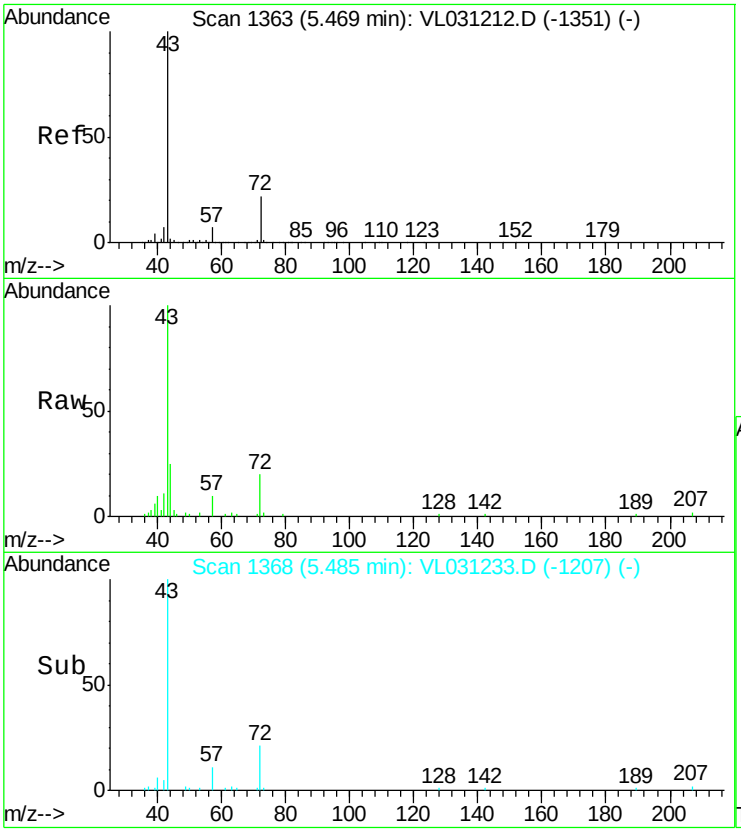


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.45 min Scan# 1979
Delta R.T. -0.00 min
Lab File: VL031233.D
Acq: 14 Dec 2017 15:51

Tgt Ion:114 Resp: 3559372

Ion	Ratio	Lower	Upper
114	100		
63	24.5	19.8	29.8
88	17.7	14.2	21.4



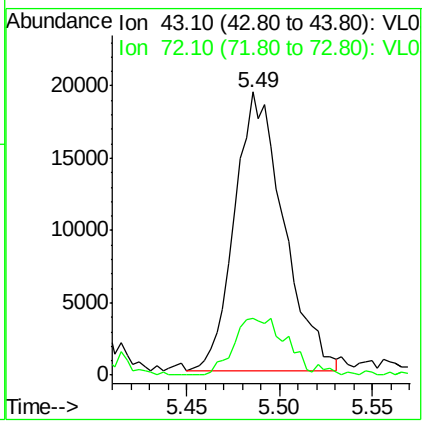


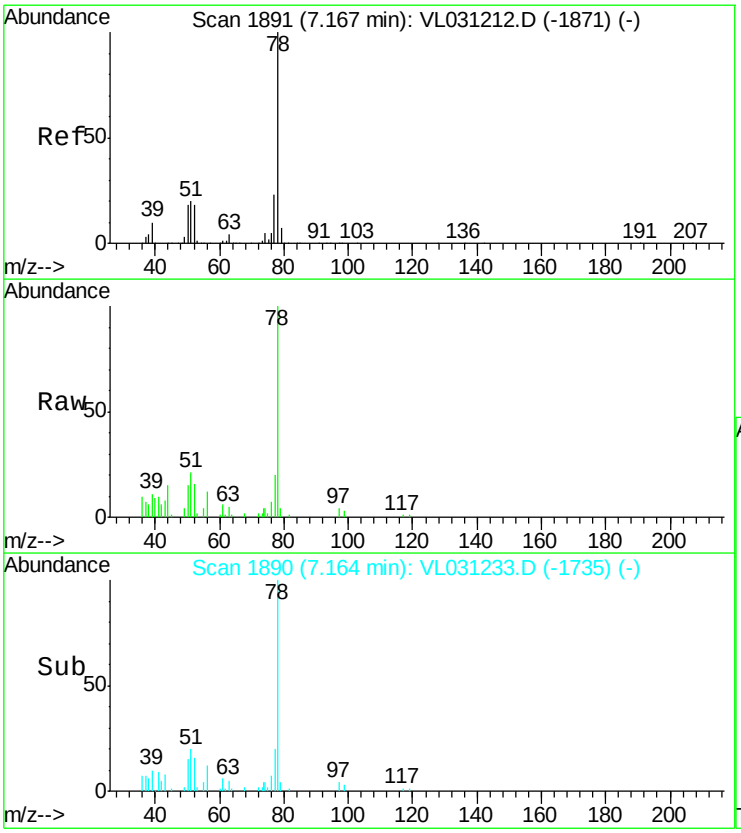
#34
2-Butanone
Concen: 0.141 ppbv
RT: 5.49 min Scan# 1368
Delta R.T. 0.02 min
Lab File: VL031233.D
Acq: 14 Dec 2017 15:51

Instrument : MSVOA_L
ClientSampleId :

Tgt Ion: 43 Resp: 35423

Ion	Ratio	Lower	Upper
43	100		
72	23.3	18.1	27.1

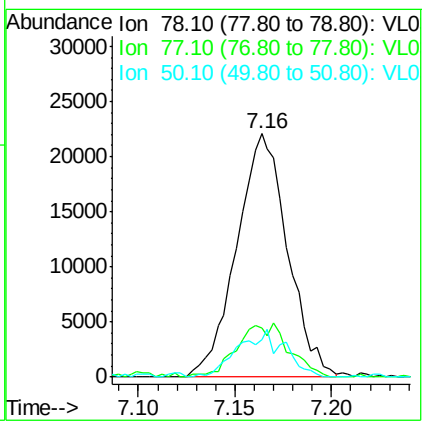


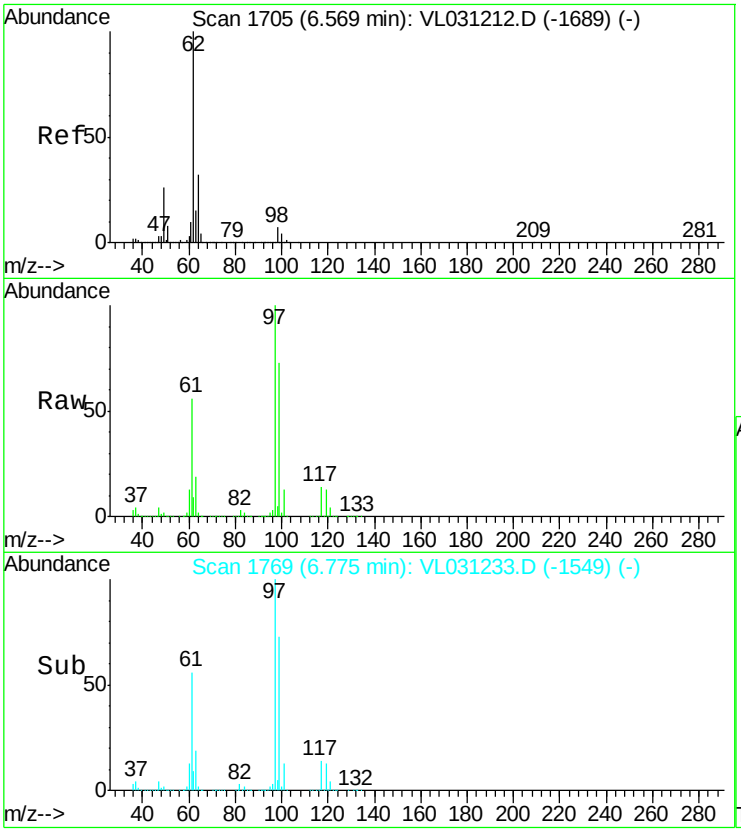


#36
Benzene
Concen: 0.107 ppbv
RT: 7.16 min Scan# 1890
Delta R.T. -0.00 min
Lab File: VL031233.D
Acq: 14 Dec 2017 15:51

Tgt Ion: 78 Resp: 40450

Ion	Ratio	Lower	Upper
78	100		
77	20.3	18.1	27.1
50	15.2	14.6	21.8



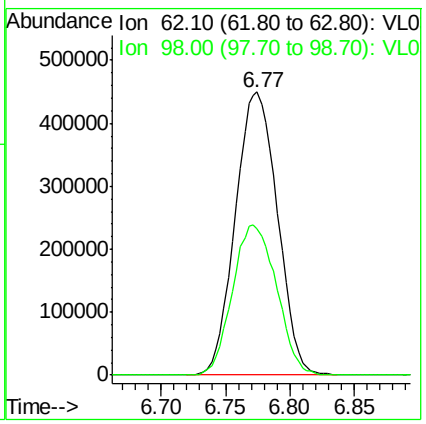


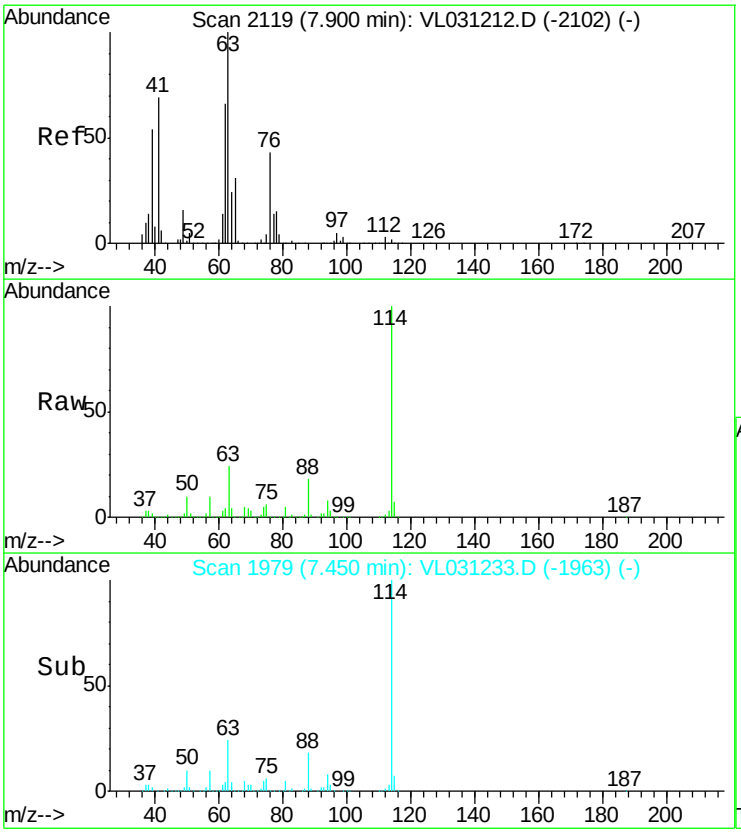
#37
1,2-Dichloroethane
Concen: 4.916 ppbv
RT: 6.77 min Scan# 1769
Delta R.T. 0.21 min
Lab File: VL031233.D
Acq: 14 Dec 2017 15:51

Instrument : MSVOA_L
ClientSampleId :

Tgt Ion: 62 Resp: 1023204

Ion	Ratio	Lower	Upper
62	100		
98	55.6	5.4	8.2#

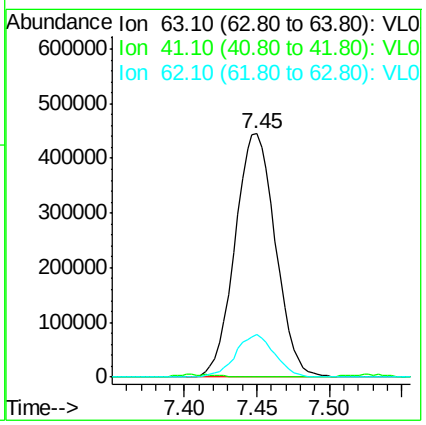


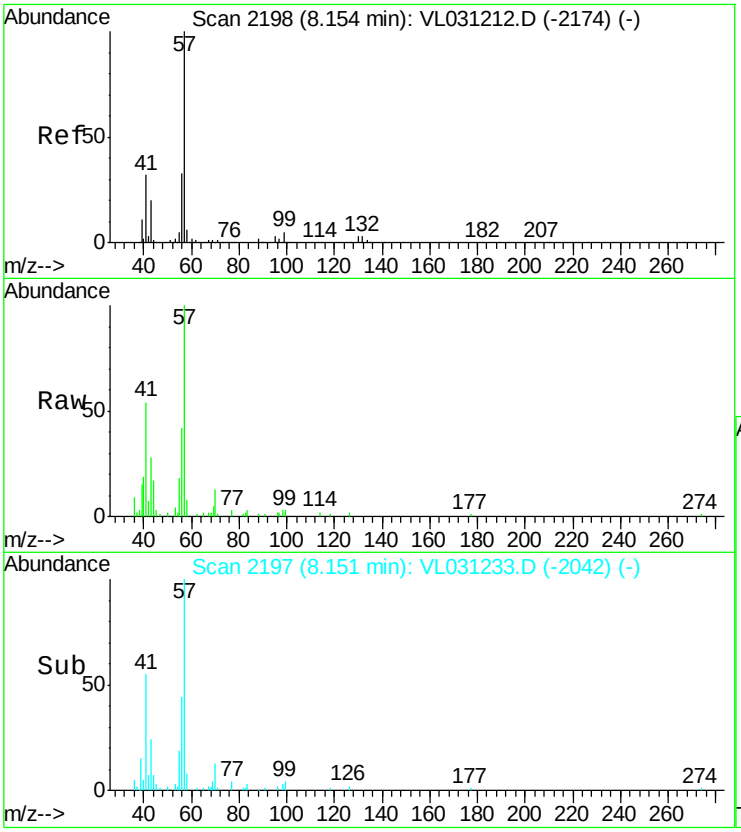


#39
1,2-Dichloropropane
Concen: 6.455 ppbv
RT: 7.45 min Scan# 1979
Delta R.T. -0.45 min
Lab File: VL031233.D
Acq: 14 Dec 2017 15:51

Tgt Ion: 63 Resp: 860948

Ion	Ratio	Lower	Upper
63	100		
41	0.0	55.2	82.8#
62	17.4	53.0	79.4#



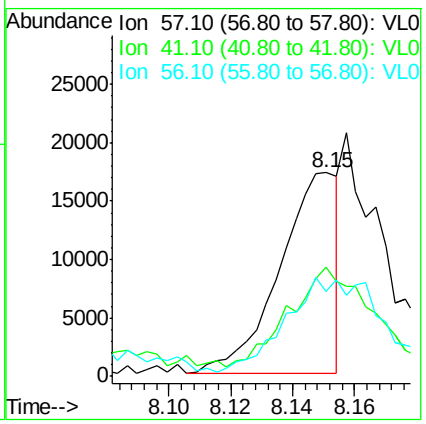


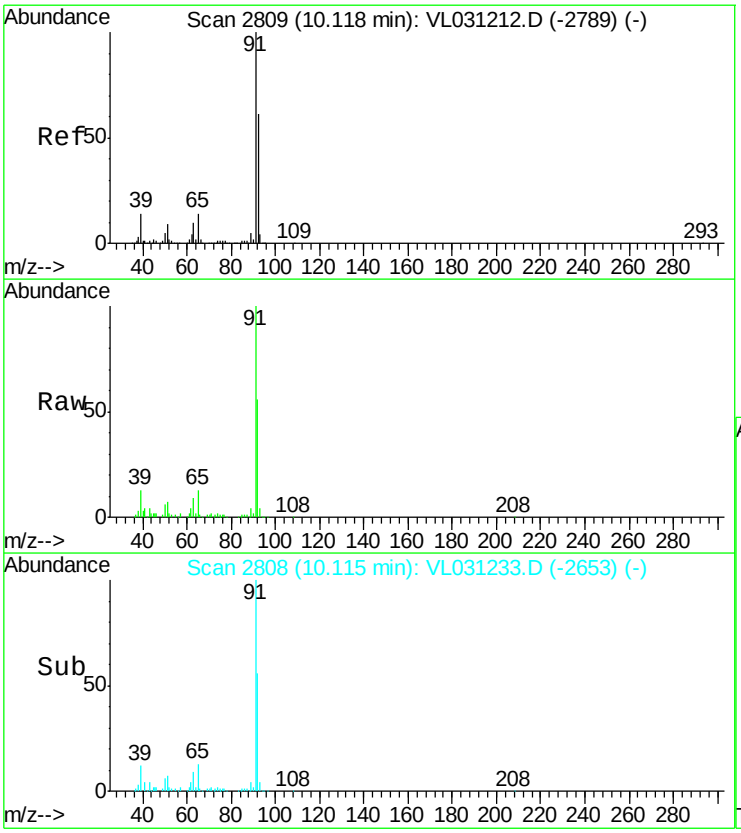
#44
2,2,4-Trimethylpentane
Concen: 0.039 ppbv
RT: 8.15 min Scan# 2197
Delta R.T. -0.00 min
Lab File: VL031233.D
Acq: 14 Dec 2017 15:51

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 57 Resp: 22375

Ion	Ratio	Lower	Upper
57	100		
41	88.2	25.5	38.3#
56	86.6	25.0	37.6#

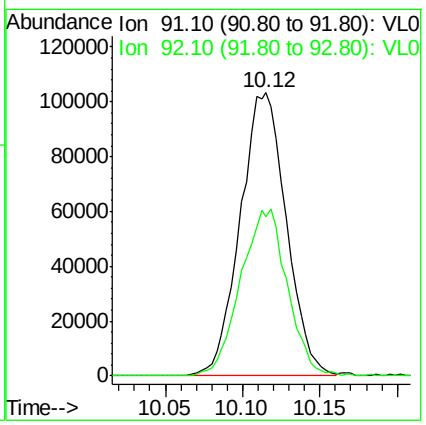


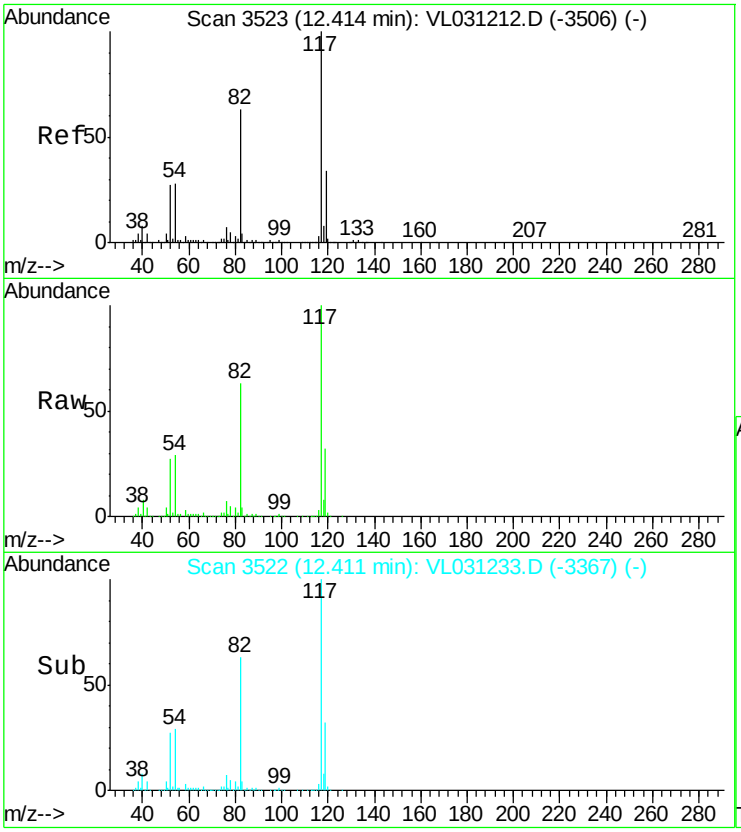


#53
Toluene
Concen: 0.523 ppbv
RT: 10.12 min Scan# 2808
Delta R.T. -0.00 min
Lab File: VL031233.D
Acq: 14 Dec 2017 15:51

Tgt Ion: 91 Resp: 214186

Ion	Ratio	Lower	Upper
91	100		
92	59.6	49.1	73.7



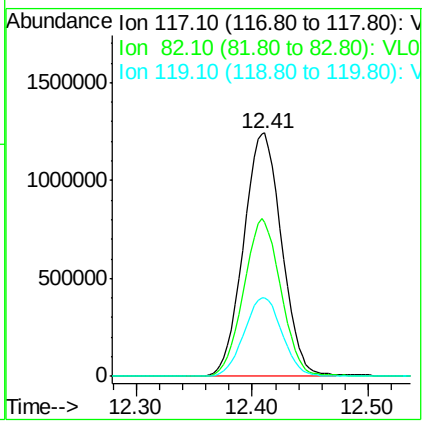


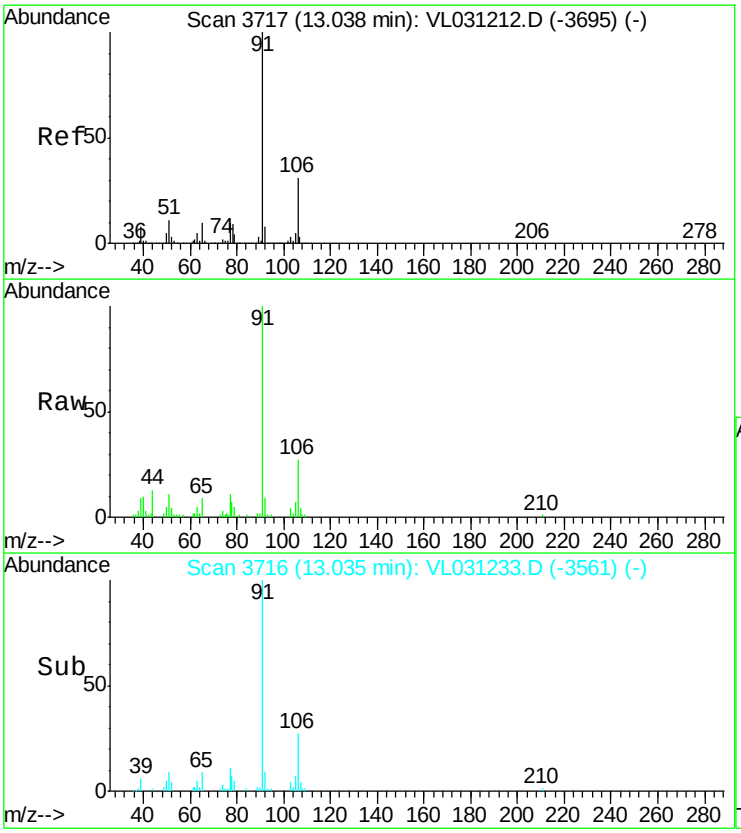
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.41 min Scan# 3522
Delta R.T. -0.00 min
Lab File: VL031233.D
Acq: 14 Dec 2017 15:51

Instrument : MSVOA_L
ClientSampleId :

Tgt Ion:117 Resp: 2844431

Ion	Ratio	Lower	Upper
117	100		
82	64.1	48.1	72.1
119	32.5	23.1	34.7

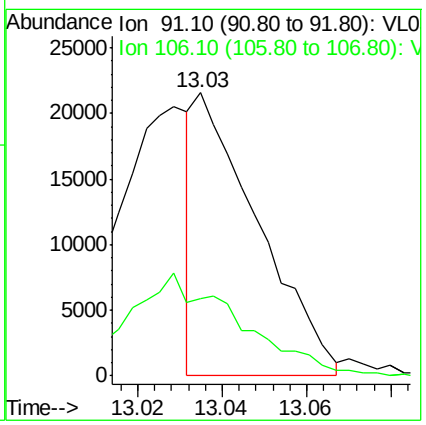


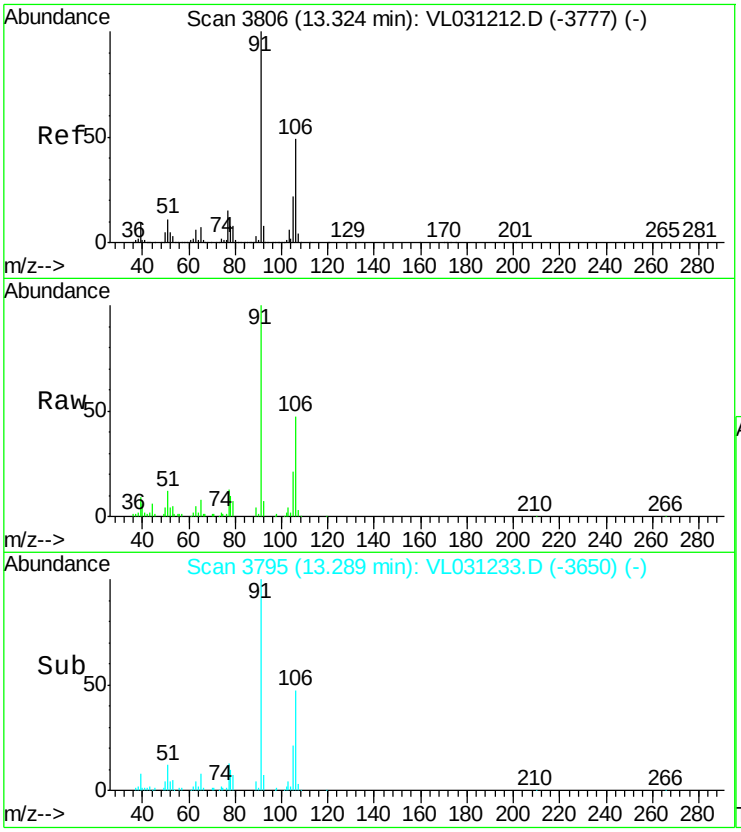


#58
Ethyl Benzene
Concen: 0.048 ppbv
RT: 13.03 min Scan# 3716
Delta R.T. -0.00 min
Lab File: VL031233.D
Acq: 14 Dec 2017 15:51

Tgt Ion: 91 Resp: 22370

Ion	Ratio	Lower	Upper
91	100		
106	26.9	25.1	37.7



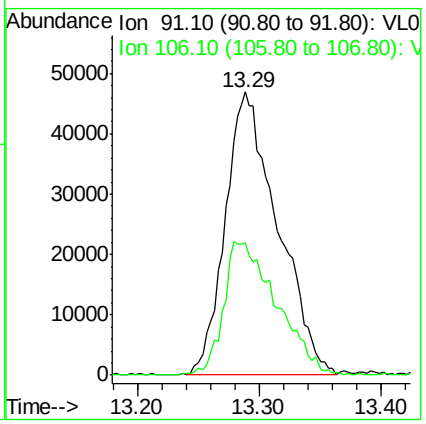


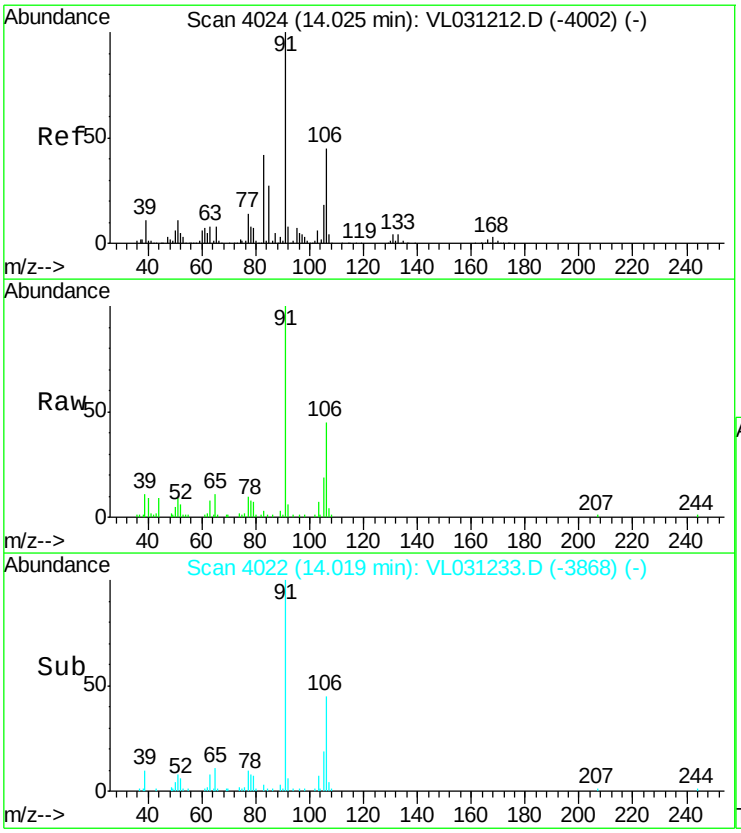
#59
m/p-Xylene
Concen: 0.373 ppbv
RT: 13.29 min Scan# 3795
Delta R.T. -0.04 min
Lab File: VL031233.D
Acq: 14 Dec 2017 15:51

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 91 Resp: 140354

Ion	Ratio	Lower	Upper
91	100		
106	47.7	38.5	57.7

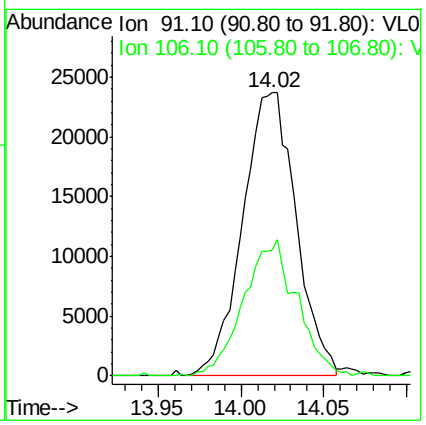


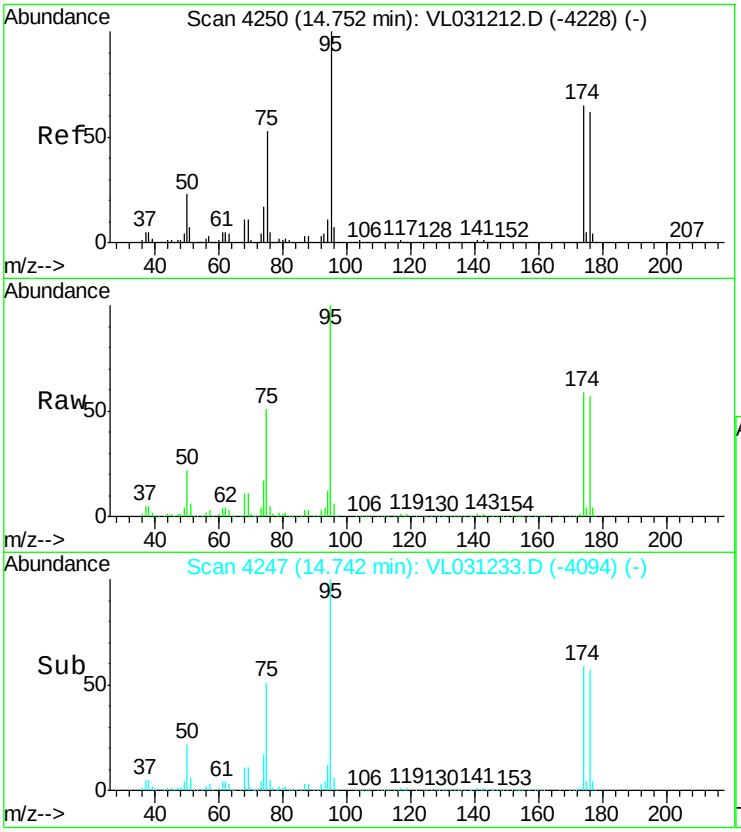


#60
o-Xylene
Concen: 0.140 ppbv
RT: 14.02 min Scan# 4022
Delta R.T. -0.01 min
Lab File: VL031233.D
Acq: 14 Dec 2017 15:51

Tgt Ion: 91 Resp: 53179

Ion	Ratio	Lower	Upper
91	100		
106	48.0	22.7	68.1



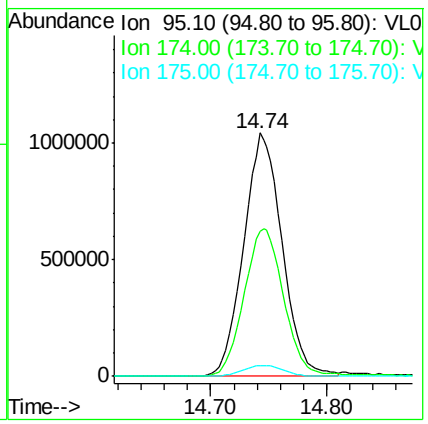


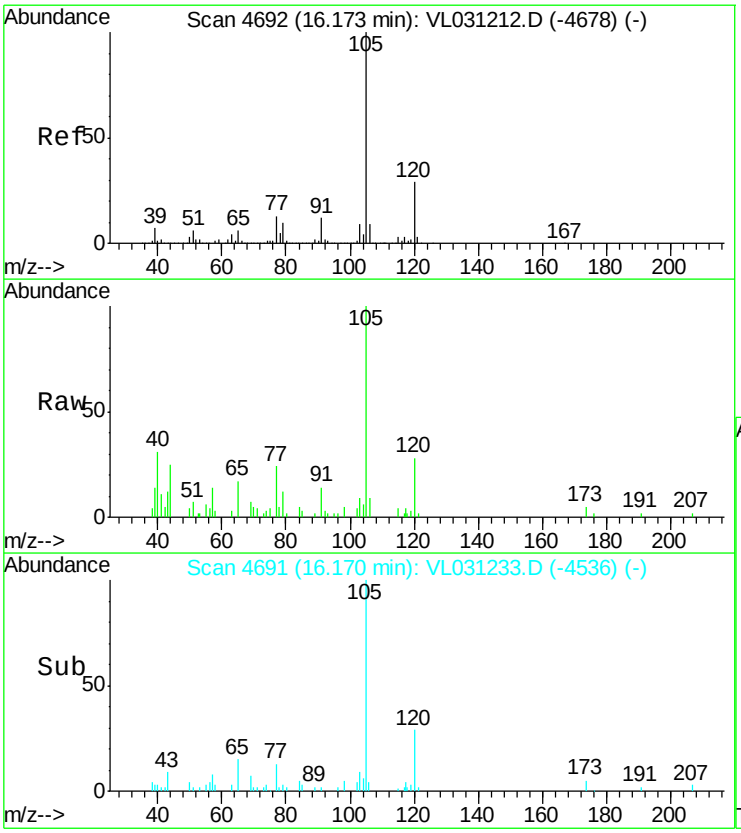
#68
1-Bromo-4-Fluorobenzene
Concen: 11.869 ppbv
RT: 14.74 min Scan# 4247
Delta R.T. -0.01 min
Lab File: VL031233.D
Acq: 14 Dec 2017 15:51

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 95 Resp: 2401479

Ion	Ratio	Lower	Upper
95	100		
174	62.6	52.5	78.7
175	4.8	4.1	6.1

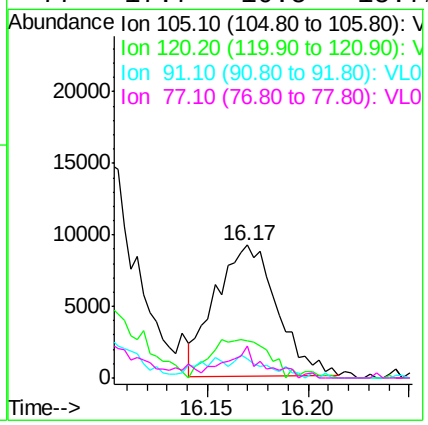


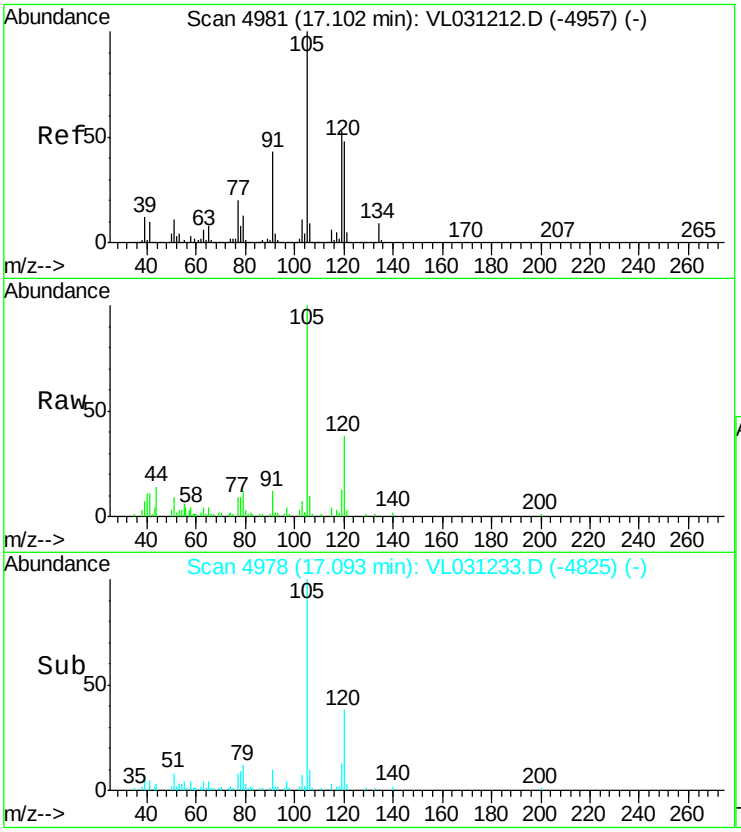


#72
4-Ethyltoluene
Concen: 0.047 ppbv
RT: 16.17 min Scan# 4691
Delta R.T. -0.00 min
Lab File: VL031233.D
Acq: 14 Dec 2017 15:51

Tgt Ion:105 Resp: 19586

Ion	Ratio	Lower	Upper
105	100		
120	29.3	24.2	36.2
91	17.6	9.8	14.8#
77	17.7	10.5	15.7#





#74
1,2,4-Trimethylbenzene
Concen: 0.136 ppbv
RT: 17.09 min Scan# 4978
Delta R.T. -0.01 min
Lab File: VL031233.D
Acq: 14 Dec 2017 15:51

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:105 Resp: 52773

Ion	Ratio	Lower	Upper
105	100		
120	38.4	38.6	58.0#
91	12.2	34.2	51.4#
77	8.3	16.1	24.1#