Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100719\
Data File : VL034235.D
Acq On : 7 Oct 2019 23:37
Operator : SY/AP
Sample : K5225-05
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : IA1

Quant Time: Oct 09 02:22:46 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 18 12:53:31 2019
QLast Update : Wed Sep 18 12:53:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	5.69	49	1132941	10.00	ppbv		-0.02
33) 1,4-Difluorobenzene	7.21	114	1853584	10.00	ppbv		-0.02
55) Chlorobenzene-d5	12.15	117	1894360	10.00	ppbv		-0.02
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	14.49	95	1719512	10.45	ppbv		-0.02
Spiked Amount 10.000	Range 65 - 135		Recovery = 104.50%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.03	85	100733	0.602	ppbv		97
3) Chlorodifluoromethane	2.97	51	1496322	11.264	ppbv		98
4) Chloromethane	3.12	50	38120	0.488	ppbv		89
9) Propene	3.19	41	97565	1.489	ppbv		88
10) Heptane	8.17	43	14831	0.087	ppbv		87
11) Trichlorofluoromethane	3.95	101	53536	0.351	ppbv		96
12) 1,1,2-Trichlorotrifluoroet	4.49	101	7488	0.075	ppbv		98
13) Ethanol	3.60	45	793861	50.022	ppbv		96
15) Acetone	3.84	43	982296	6.469	ppbv		97
16) 1,3-Butadiene	3.29	39	17163	0.259	ppbv	#	41
17) tert-Butyl alcohol	4.31	59	3650	0.038	ppbv	#	71
19) Isopropyl Alcohol	3.97	45	266145	2.850	ppbv	#	96
20) Methylene Chloride	4.35	84	66428	1.517	ppbv		95
23) Vinyl Acetate	5.08	43	53411	0.239	ppbv	#	65
25) Ethyl Acetate	5.71	43	146883	0.512	ppbv	#	95
26) Hexane	5.71	57	99627	0.834	ppbv	#	66
29) Chloroform	5.77	83	17298	0.101	ppbv		87
31) cis-1,2-Dichloroethene	5.70	61	6442	0.053	ppbv	#	43
34) 2-Butanone	5.27	43	104155	0.550	ppbv		98
35) Carbon Tetrachloride	7.05	117	6567	0.043	ppbv	#	80
36) Benzene	6.93	78	37826	0.185	ppbv	#	86
37) 1,2-Dichloroethane	6.34	62	10075	0.069	ppbv	#	94
39) 1,2-Dichloropropane	7.21	63	617895	6.718	ppbv	#	21
43) Methyl Methacrylate	8.06	69	10354	0.122	ppbv	#	1
44) 2,2,4-Trimethylpentane	7.91	57	15732	0.040	ppbv	#	1
53) Toluene	9.86	91	156408	0.699	ppbv		97
59) m/p-Xylene	13.06	91	9961	0.039	ppbv	#	32
60) o-Xylene	13.76	91	11461	0.045	ppbv	#	33
74) 1,2,4-Trimethylbenzene	16.83	105	38965	0.133	ppbv	#	81
75) 1,3-Dichlorobenzene	17.22	146	2411989	15.323	ppbv		99
76) 1,4-Dichlorobenzene	17.22	146	2411989	14.962	ppbv		98
79) Naphthalene	22.32	128	38268	0.148	ppbv	#	89
80) Naphthalene,2-methyl-	25.05	142	3628	0.030	ppbv	#	91

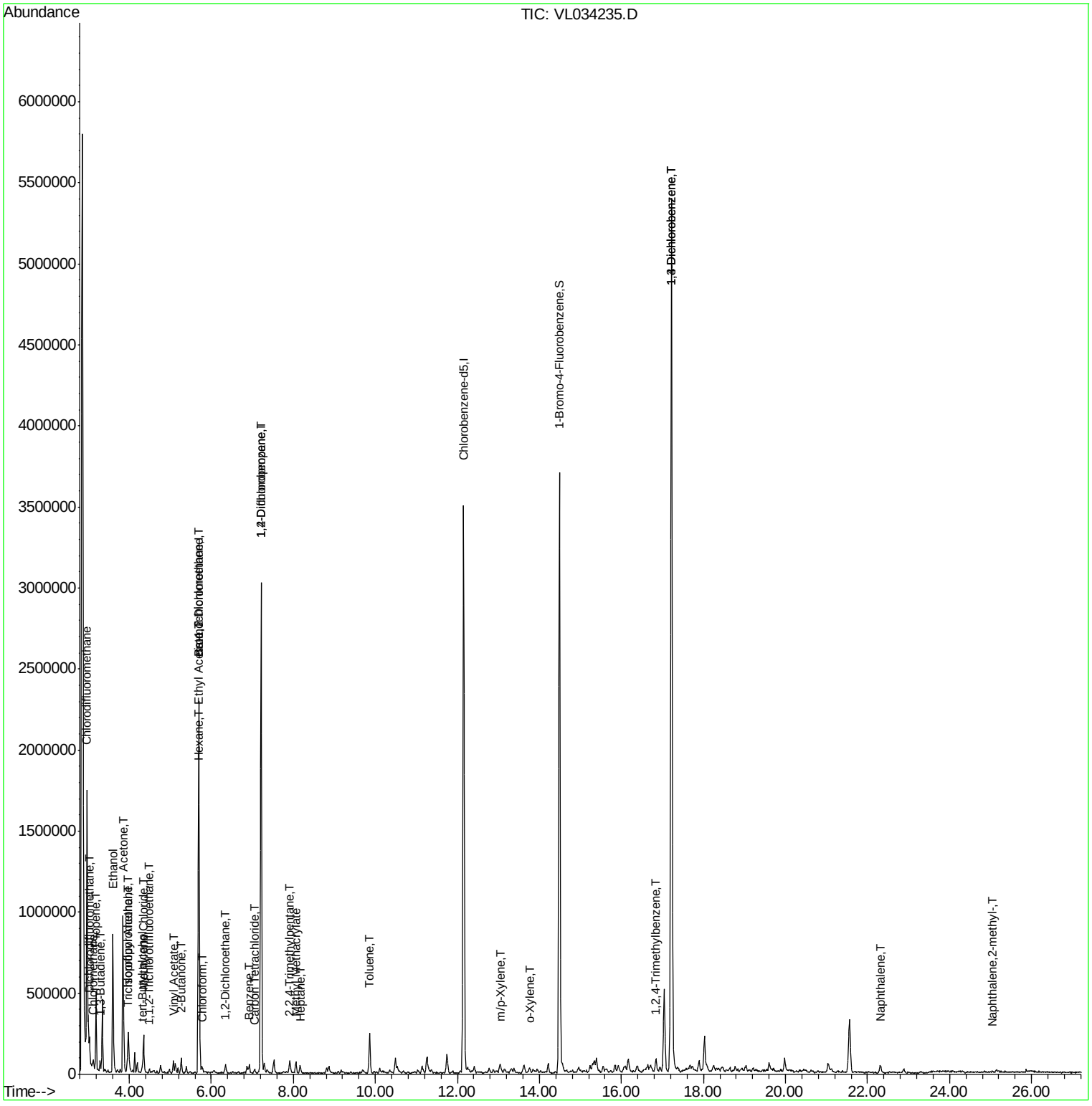
(#) = qualifier out of range (m) = manual integration (+) = signals summed

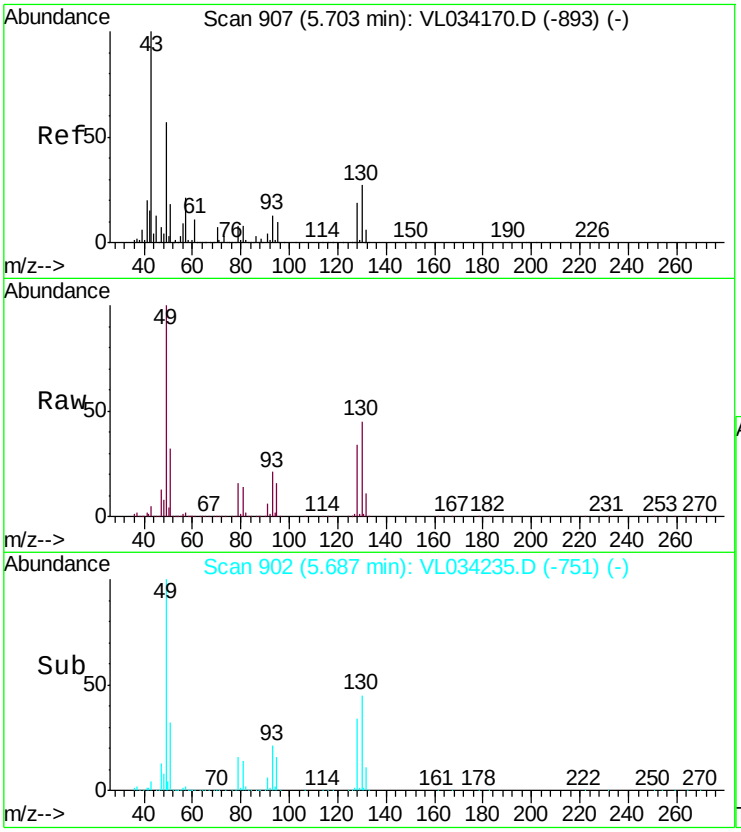
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100719\
Data File : VL034235.D
Acq On : 7 Oct 2019 23:37
Operator : SY/AP
Sample : K5225-05
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : IA1

Quant Time: Oct 09 02:22:46 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 18 12:53:31 2019
QLast Update : Wed Sep 18 12:53:31 2019
Response via : Initial Calibration



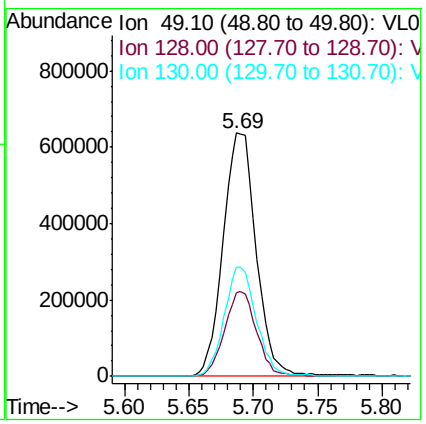


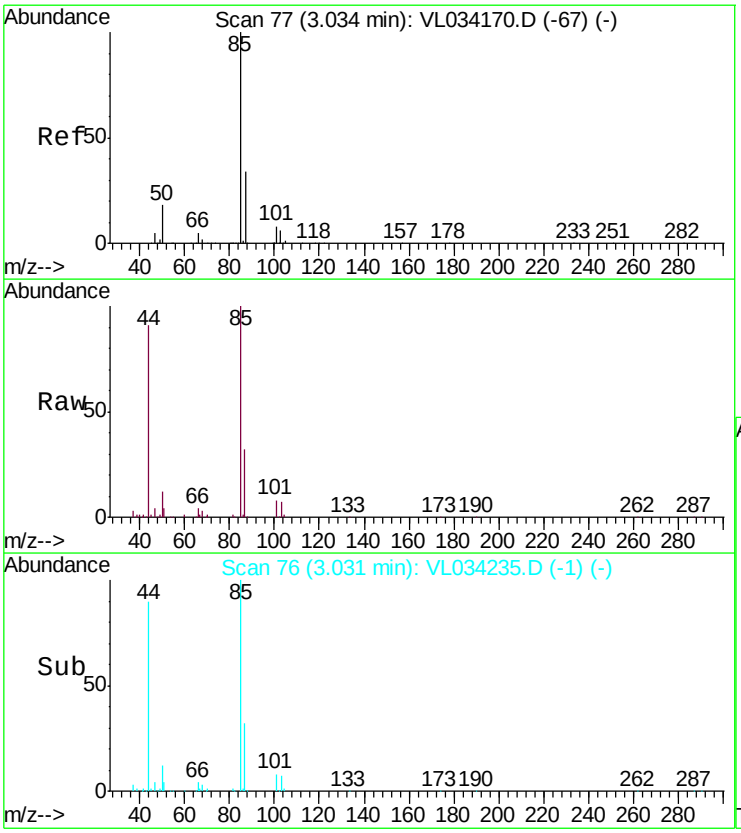
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.02 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion: 49 Resp: 1132941

Ion	Ratio	Lower	Upper
49	100		
128	34.0	17.6	52.9
130	44.2	22.3	66.9

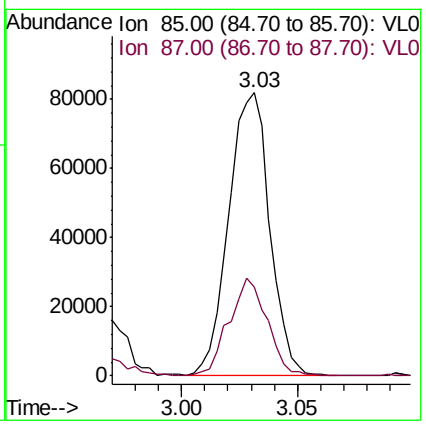


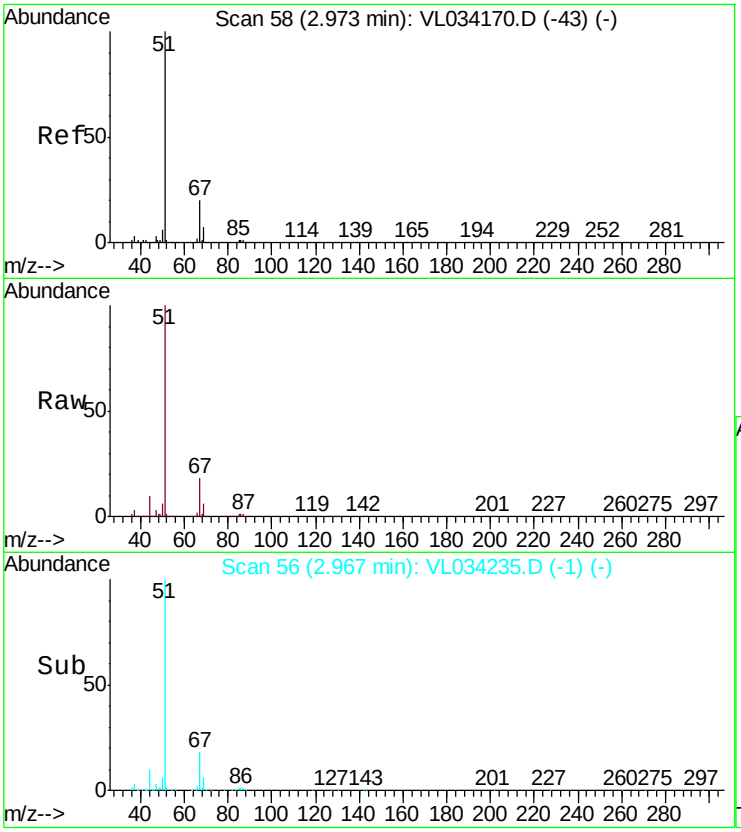


#2
Dichlorodifluoromethane
Concen: 0.602 ppbv
RT: 3.03 min Scan# 76
Delta R.T. -0.00 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Tgt Ion: 85 Resp: 100733

Ion	Ratio	Lower	Upper
85	100		
87	32.0	27.2	40.8



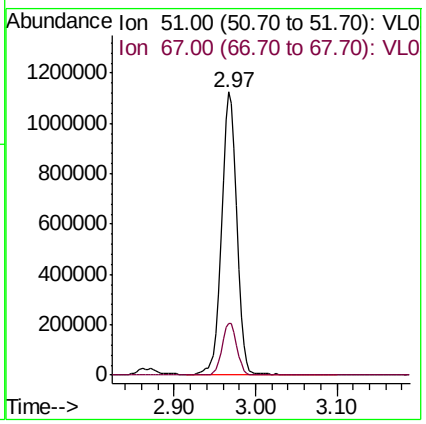


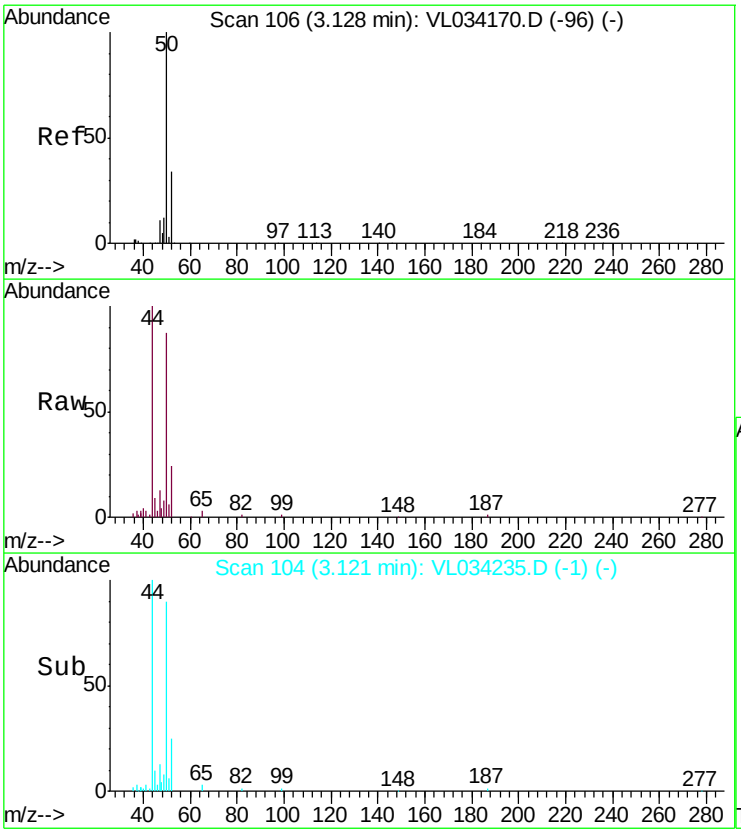
#3
Chlorodifluoromethane
Concen: 11.264 ppbv
RT: 2.97 min Scan# 56
Delta R.T. -0.01 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 51 Resp: 1496322

Ion	Ratio	Lower	Upper
51	100		
67	17.7	14.8	22.2

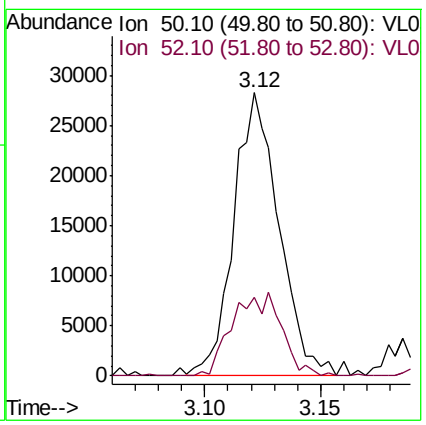


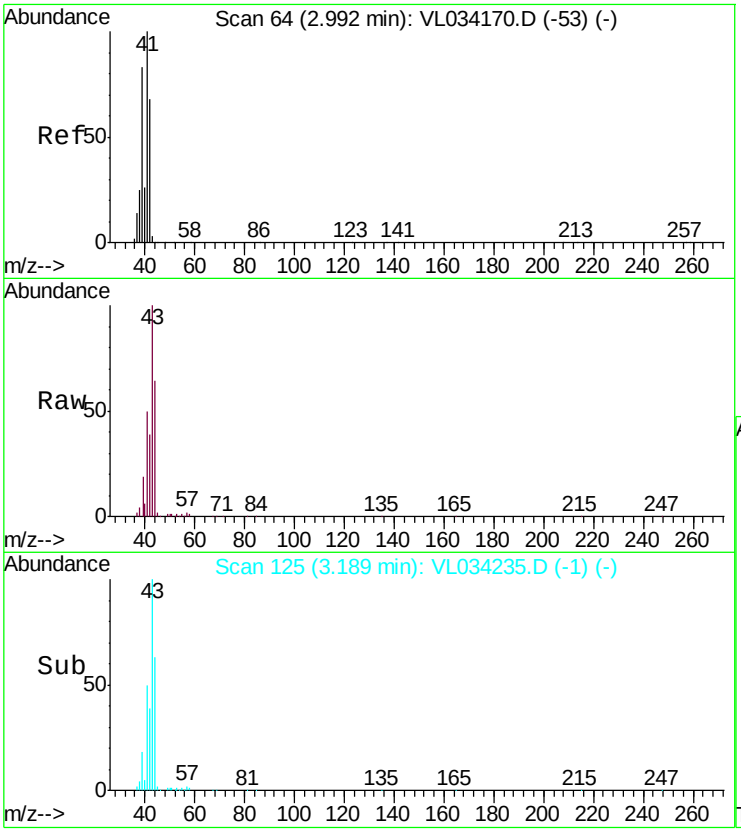


#4
Chloromethane
Concen: 0.488 ppbv
RT: 3.12 min Scan# 104
Delta R.T. -0.01 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Tgt Ion: 50 Resp: 38120

Ion	Ratio	Lower	Upper
50	100		
52	27.7	27.1	40.7



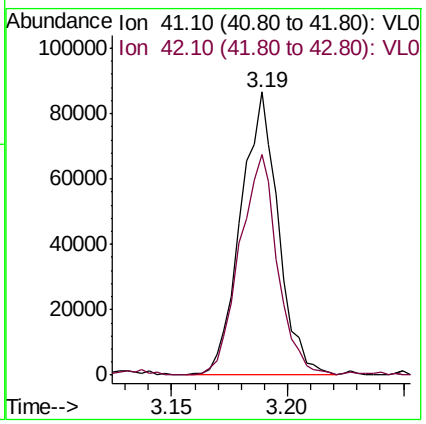


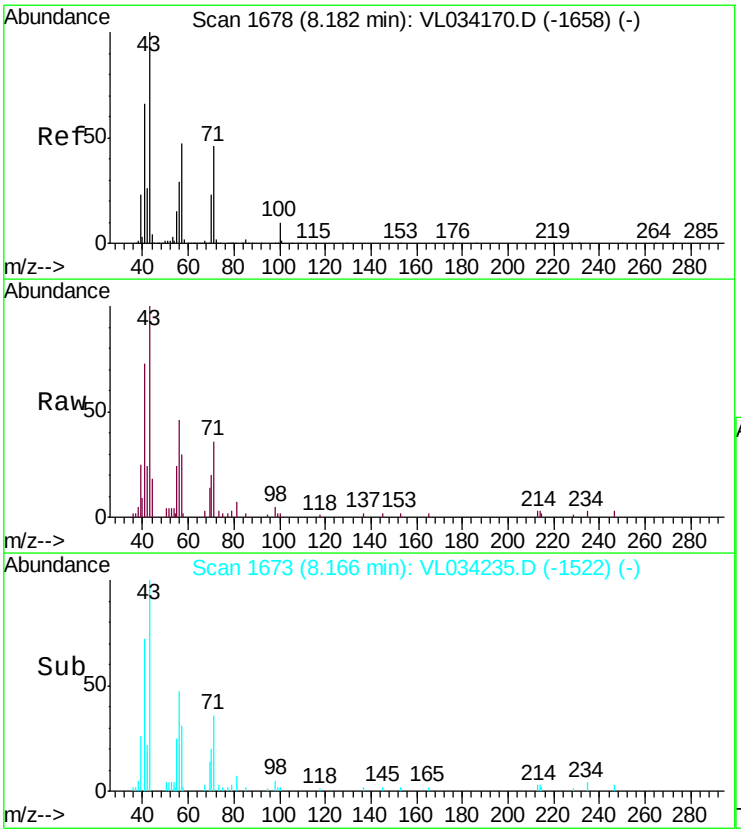
#9
Propene
Concen: 1.489 ppbv
RT: 3.19 min Scan# 125
Delta R.T. 0.20 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 41 Resp: 97565

Ion	Ratio	Lower	Upper
41	100		
42	79.8	55.8	83.6

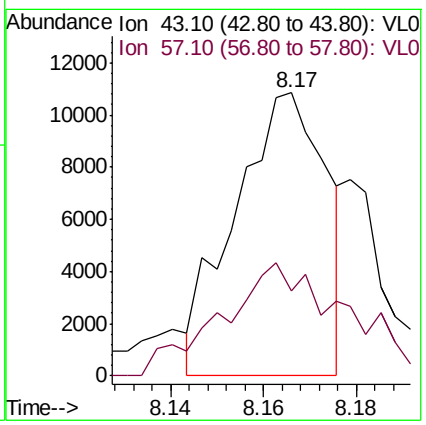


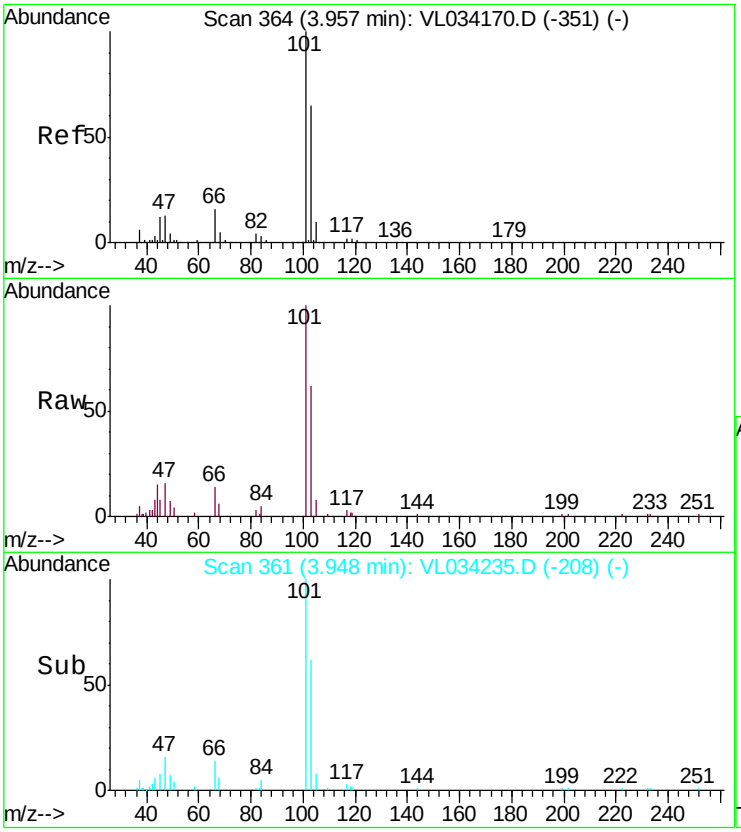


#10
Heptane
Concen: 0.087 ppbv
RT: 8.17 min Scan# 1673
Delta R.T. -0.02 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Tgt Ion: 43 Resp: 14831

Ion	Ratio	Lower	Upper
43	100		
57	55.4	37.5	56.3



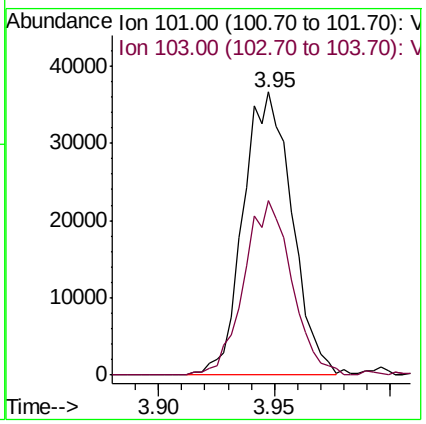


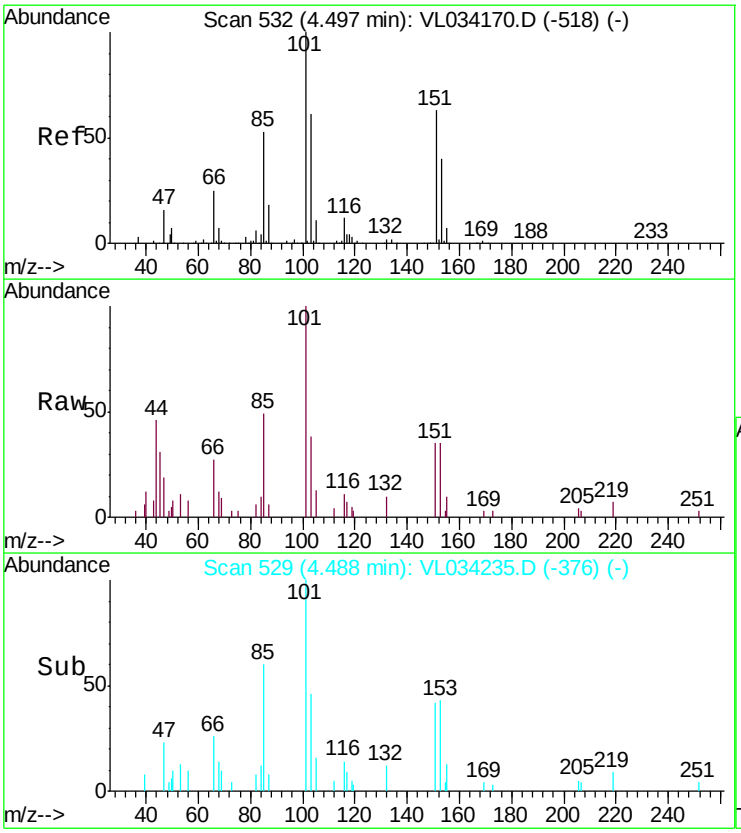
#11
Trichlorofluoromethane
Concen: 0.351 ppbv
RT: 3.95 min Scan# 361
Delta R.T. -0.01 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion:101 Resp: 53536

Ion	Ratio	Lower	Upper
101	100		
103	61.8	52.1	78.1

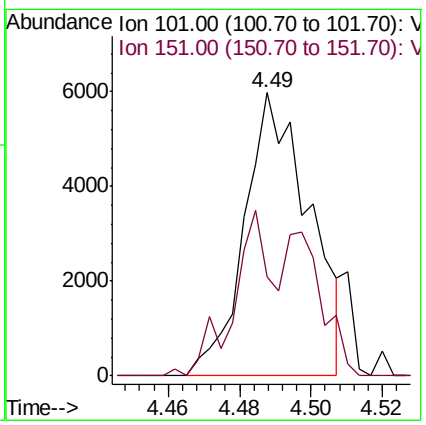


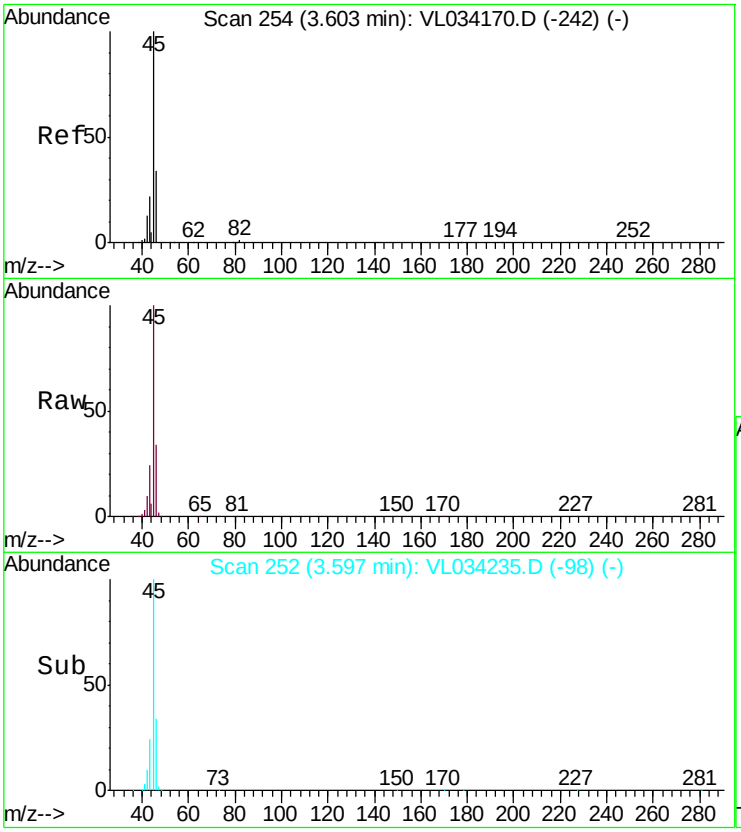


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.075 ppbv
RT: 4.49 min Scan# 529
Delta R.T. -0.01 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Tgt Ion:101 Resp: 7488

Ion	Ratio	Lower	Upper
101	100		
151	63.5	51.8	77.8



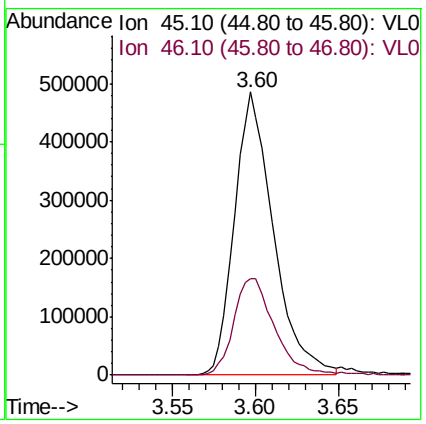


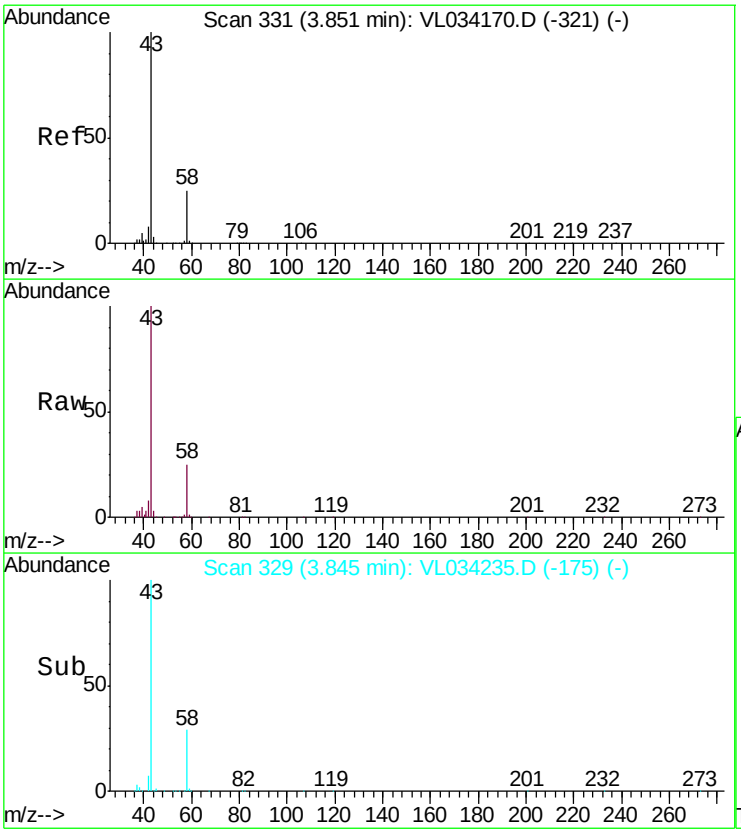
#13
Ethanol
Concen: 50.022 ppbv
RT: 3.60 min Scan# 252
Delta R.T. -0.01 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 45 Resp: 793861

Ion	Ratio	Lower	Upper
45	100		
46	36.1	15.5	61.9

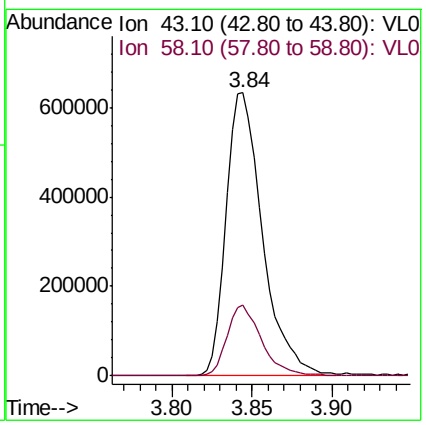


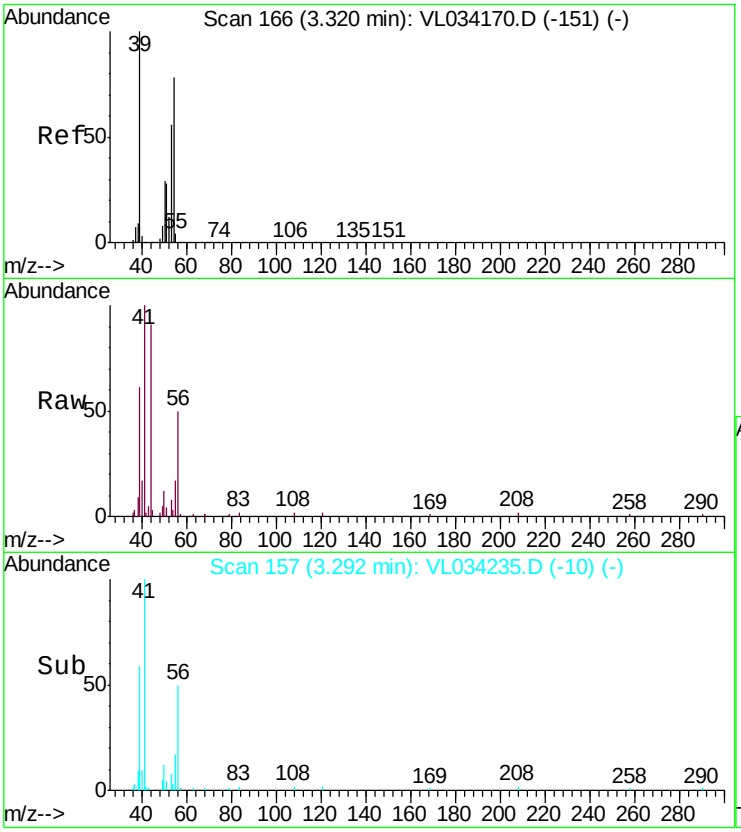


#15
Acetone
Concen: 6.469 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.01 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Tgt Ion: 43 Resp: 982296

Ion	Ratio	Lower	Upper
43	100		
58	23.9	20.5	30.7



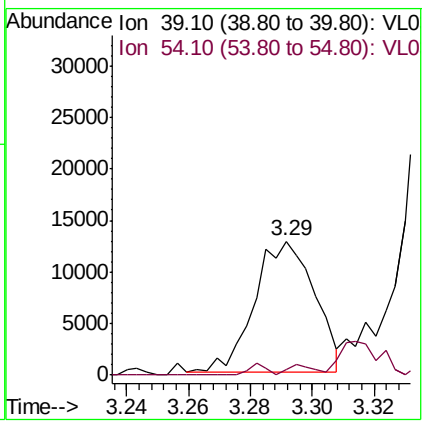


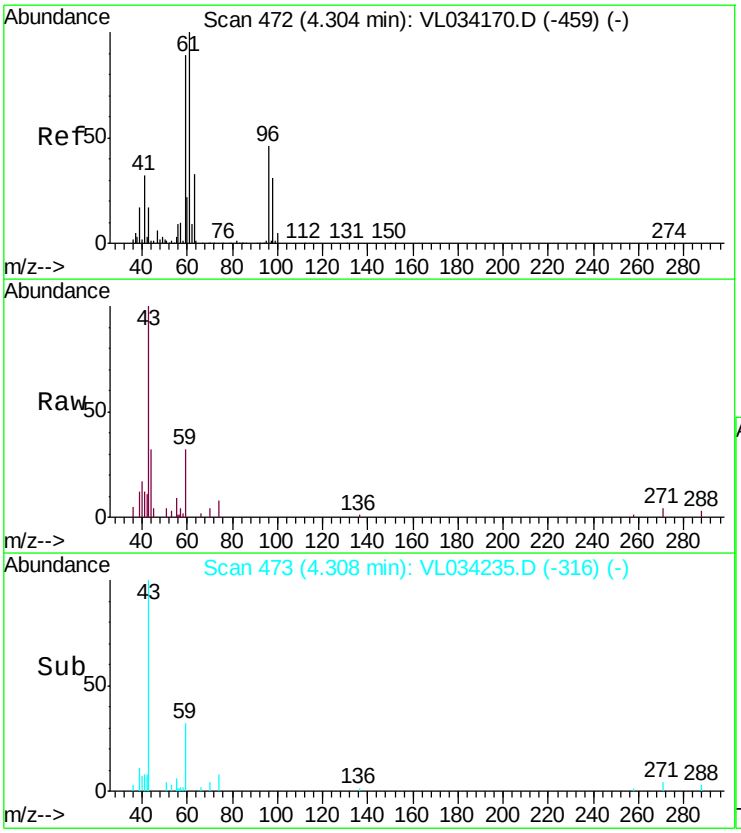
#16
1,3-Butadiene
Concen: 0.259 ppbv
RT: 3.29 min Scan# 157
Delta R.T. -0.03 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion: 39 Resp: 17163

Ion	Ratio	Lower	Upper
39	100		
54	27.8	63.4	95.0#

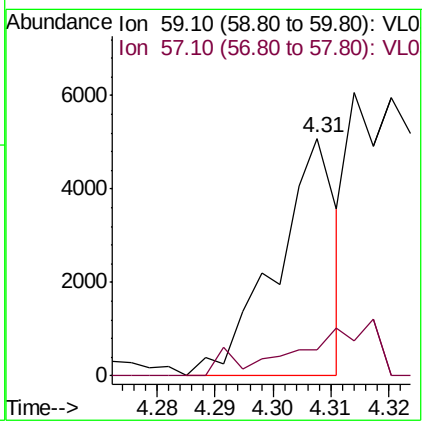


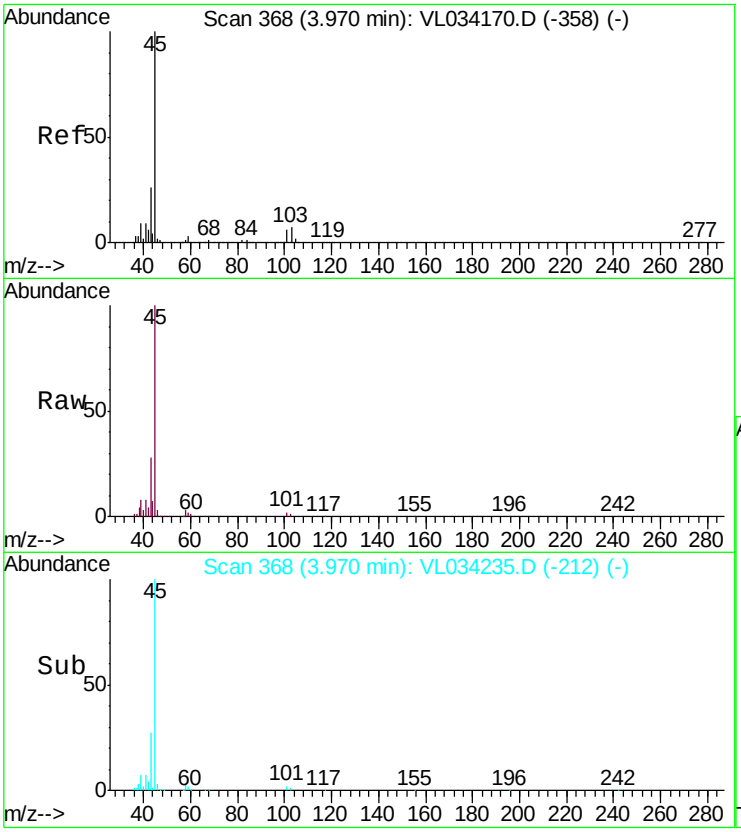


#17
tert-Butyl alcohol
Concen: 0.038 ppbv
RT: 4.31 min Scan# 473
Delta R.T. 0.00 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Tgt Ion: 59 Resp: 3650

Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.7	13.1#



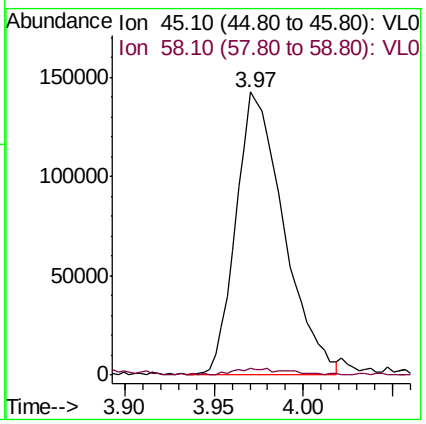


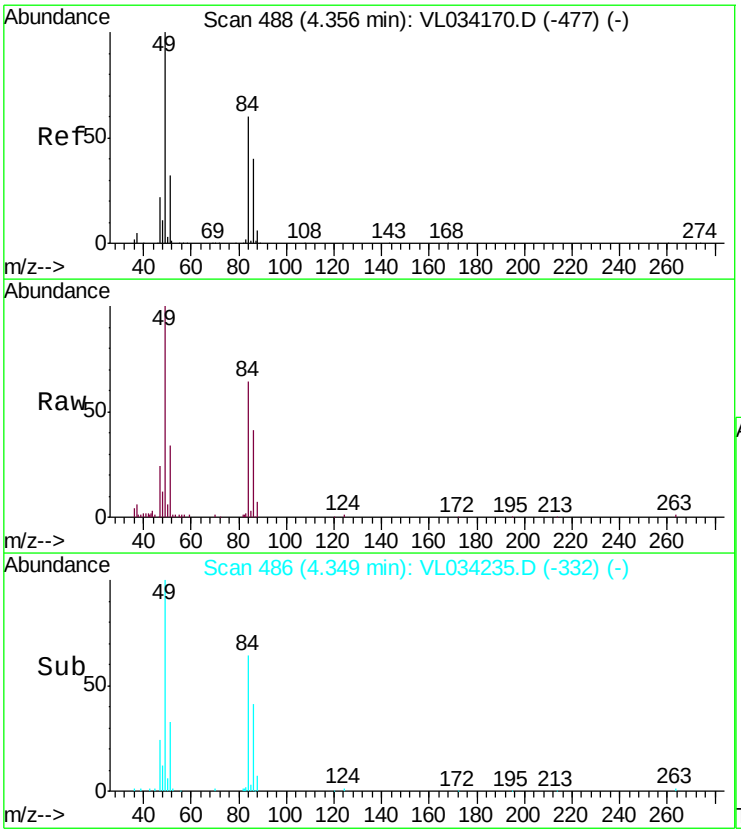
#19
Isopropyl Alcohol
Concen: 2.850 ppbv
RT: 3.97 min Scan# 368
Delta R.T. 0.00 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion: 45 Resp: 266145

Ion	Ratio	Lower	Upper
45	100		
58	3.1	1.4	2.0#

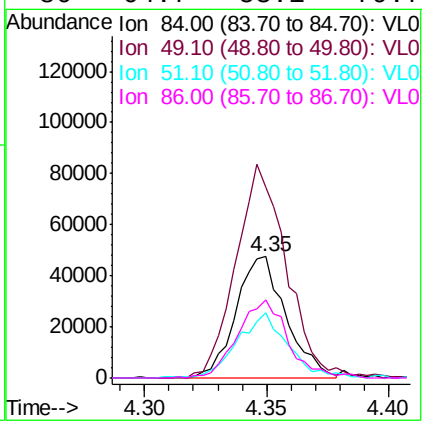


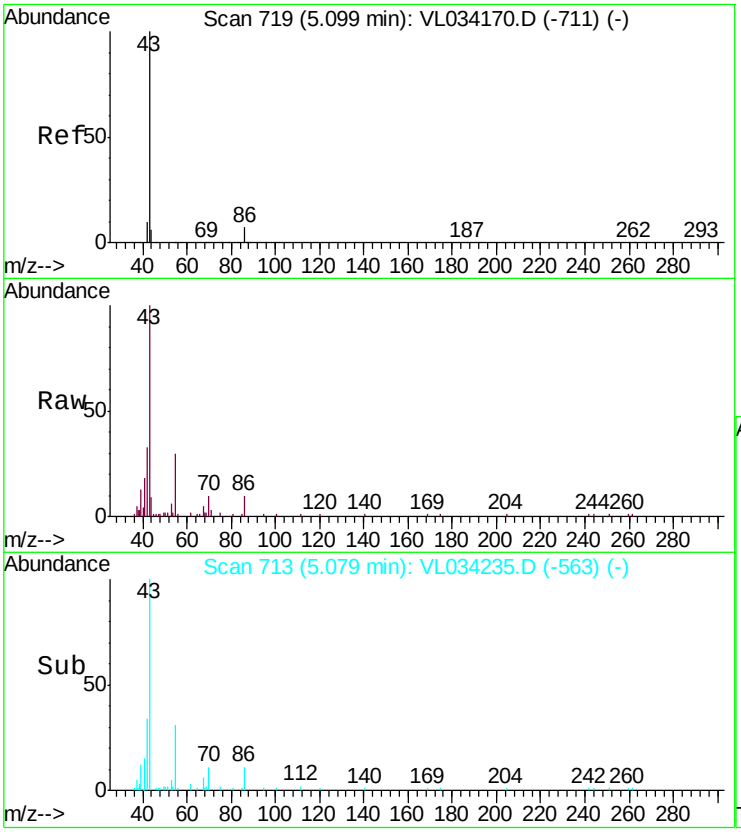


#20
Methylene Chloride
Concen: 1.517 ppbv
RT: 4.35 min Scan# 486
Delta R.T. -0.01 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Tgt Ion: 84 Resp: 66428

Ion	Ratio	Lower	Upper
84	100		
49	158.1	133.8	200.8
51	52.8	43.6	65.4
86	64.7	53.1	79.7



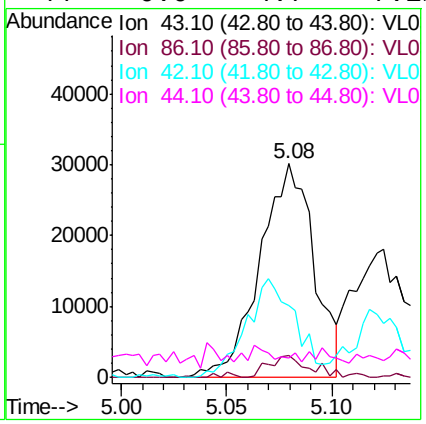


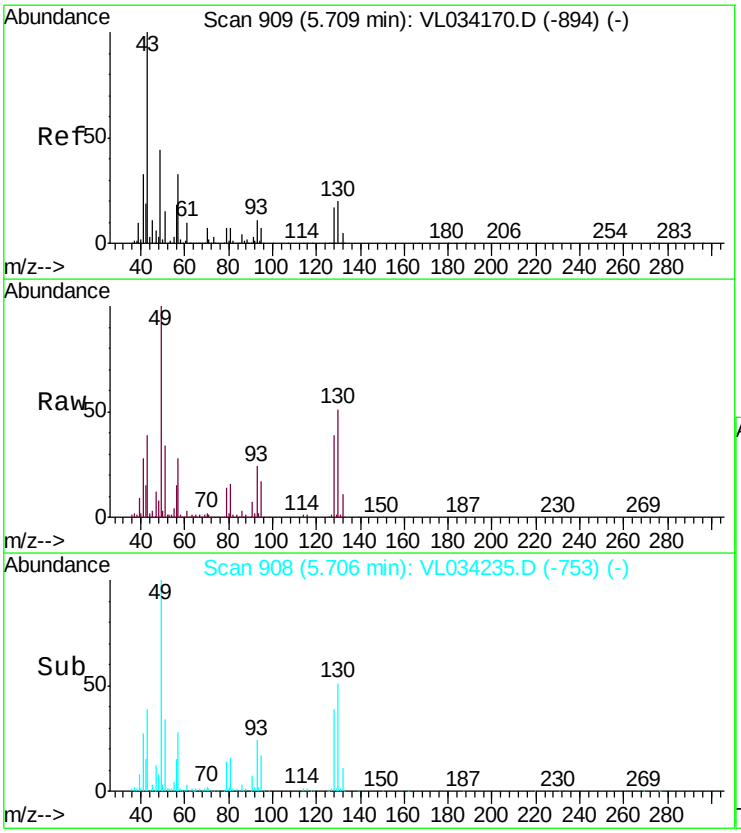
#23
Vinyl Acetate
Concen: 0.239 ppbv
RT: 5.08 min Scan# 713
Delta R.T. -0.02 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion: 43 Resp: 53411

Ion	Ratio	Lower	Upper
43	100		
86	9.3	5.1	7.7#
42	33.5	8.6	12.8#
44	0.0	4.7	7.1#

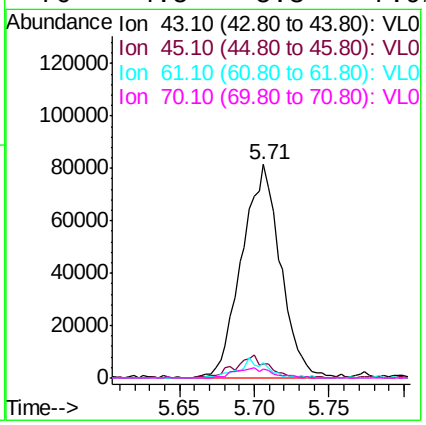


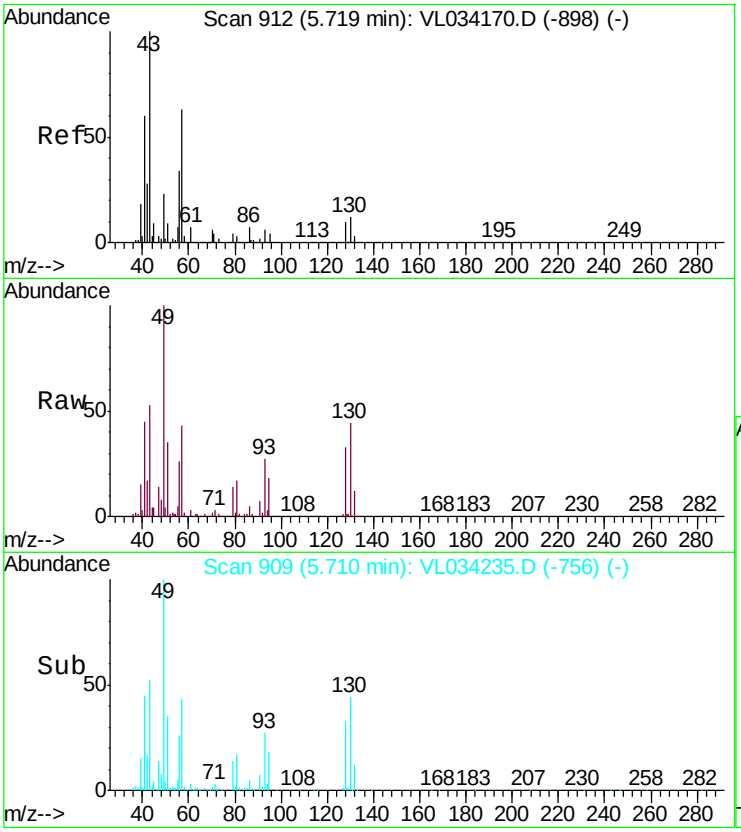


#25
Ethyl Acetate
Concen: 0.512 ppbv
RT: 5.71 min Scan# 908
Delta R.T. -0.00 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Tgt Ion: 43 Resp: 146883

Ion	Ratio	Lower	Upper
43	100		
45	9.3	8.4	12.6
61	6.8	7.2	10.8#
70	4.5	5.3	7.9#



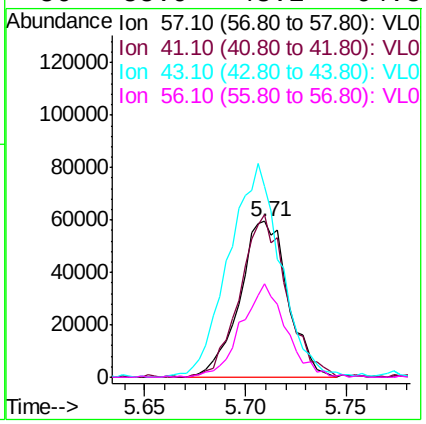


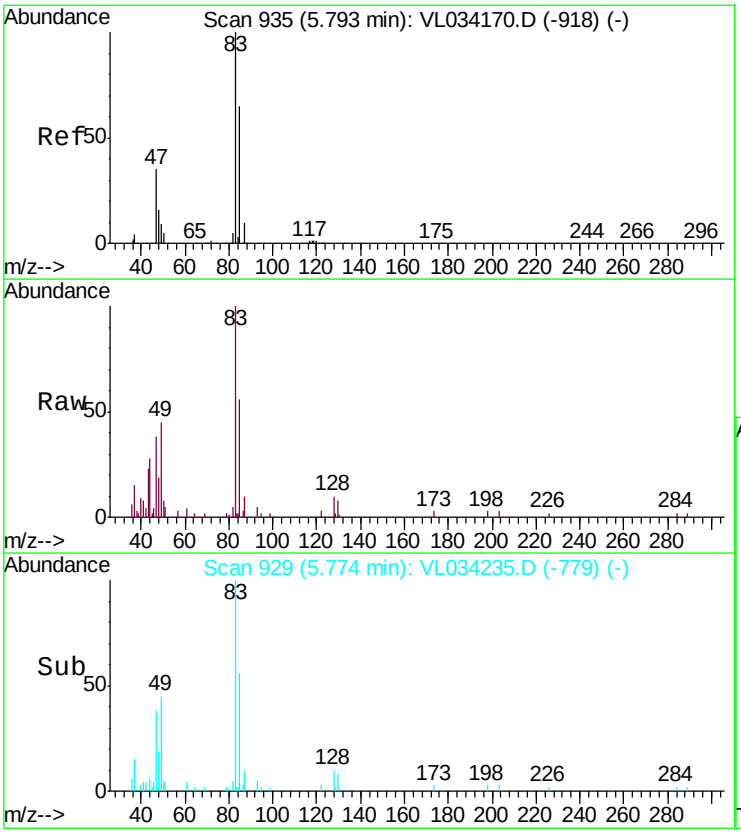
#26
Hexane
Concen: 0.834 ppbv
RT: 5.71 min Scan# 909
Delta R.T. -0.01 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion: 57 Resp: 99627

Ion	Ratio	Lower	Upper
57	100		
41	101.8	78.5	117.7
43	147.4	189.5	284.3#
56	55.9	43.2	64.8

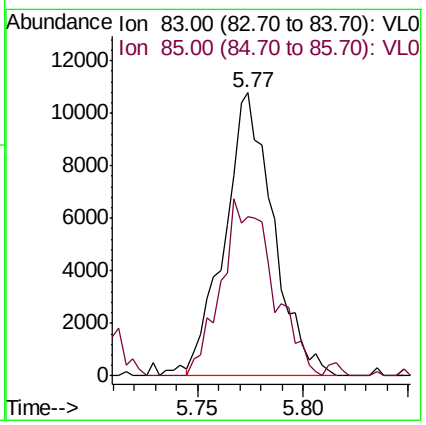


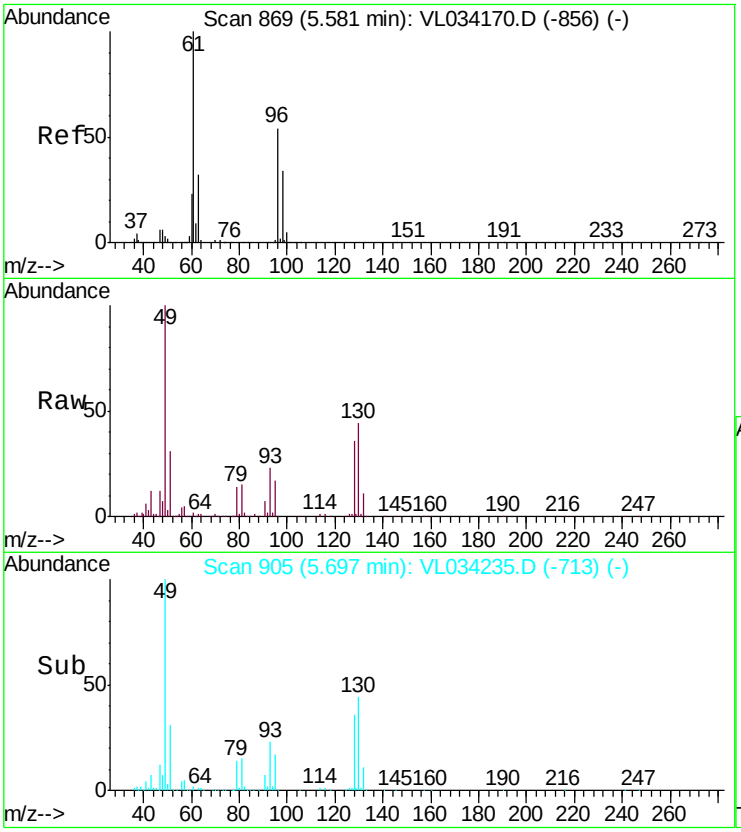


#29
Chloroform
Concen: 0.101 ppbv
RT: 5.77 min Scan# 929
Delta R.T. -0.02 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Tgt Ion: 83 Resp: 17298

Ion	Ratio	Lower	Upper
83	100		
85	55.4	52.3	78.5



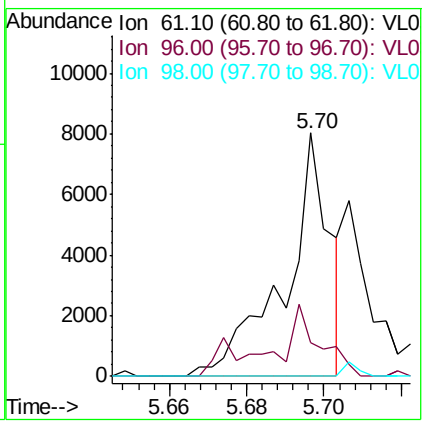


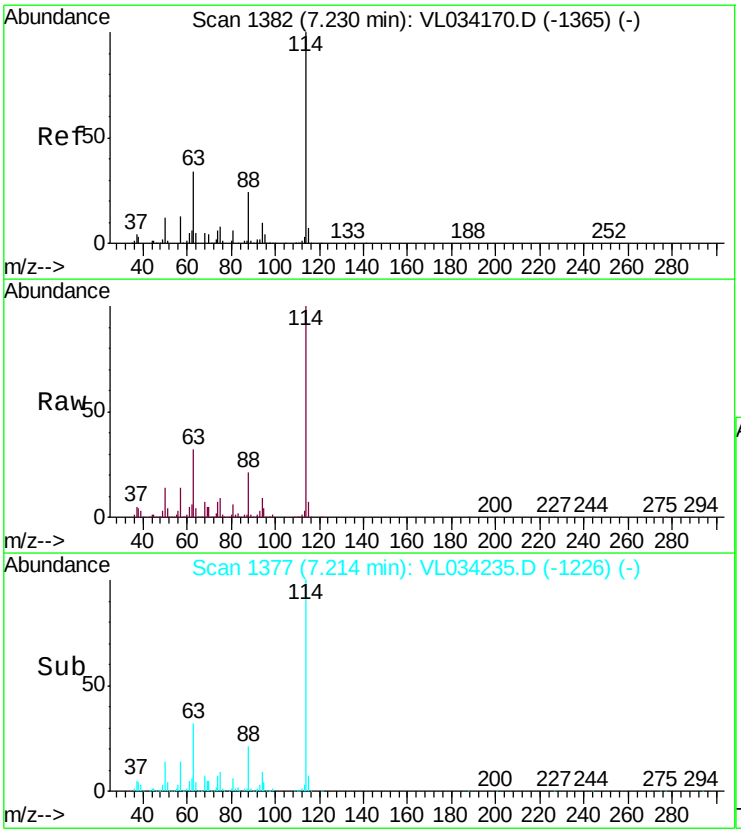
#31
cis-1,2-Dichloroethene
Concen: 0.053 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.12 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion: 61 Resp: 6442

Ion	Ratio	Lower	Upper
61	100		
96	14.0	43.0	64.4#
98	0.0	27.2	40.8#

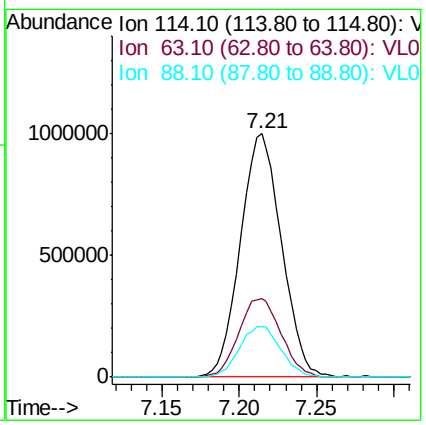


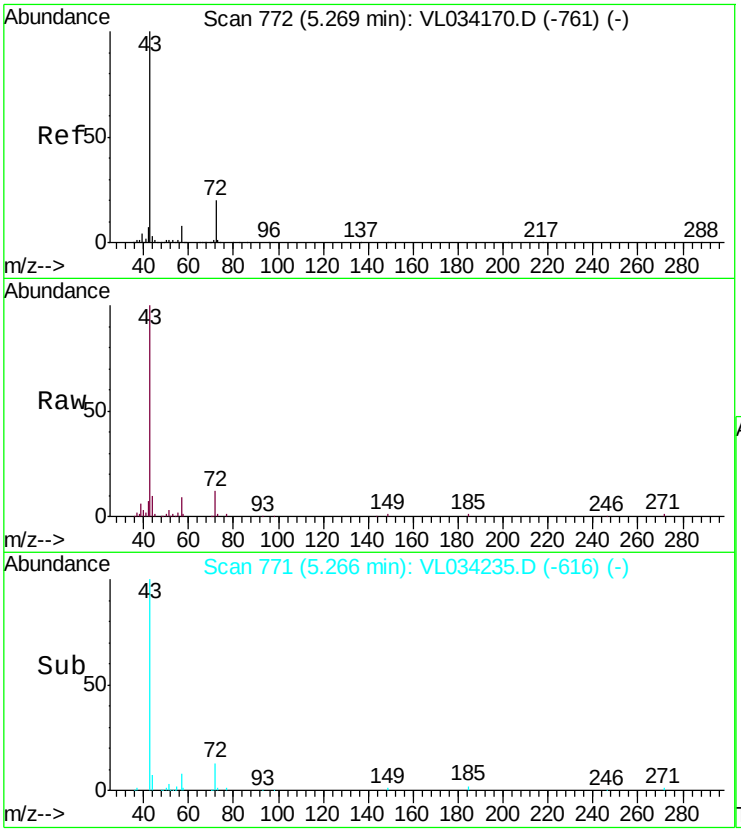


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.21 min Scan# 1377
Delta R.T. -0.02 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Tgt Ion:114 Resp: 1853584

Ion	Ratio	Lower	Upper
114	100		
63	33.4	27.8	41.6
88	21.2	17.1	25.7



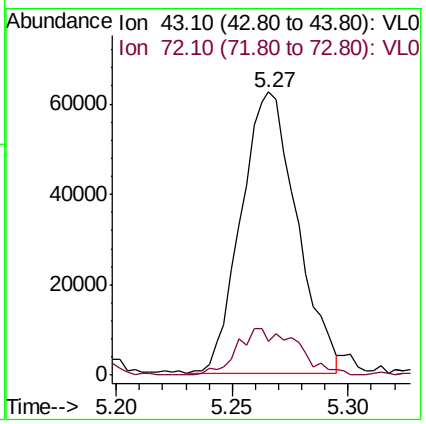


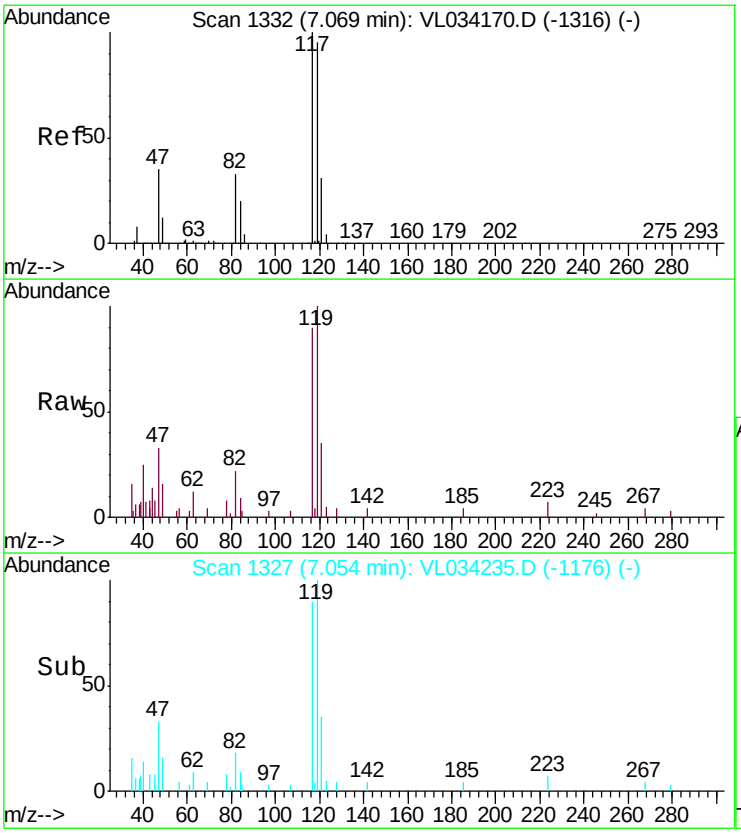
#34
2-Butanone
Concen: 0.550 ppbv
RT: 5.27 min Scan# 771
Delta R.T. -0.00 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion: 43 Resp: 104155

Ion	Ratio	Lower	Upper
43	100		
72	18.0	15.0	22.6

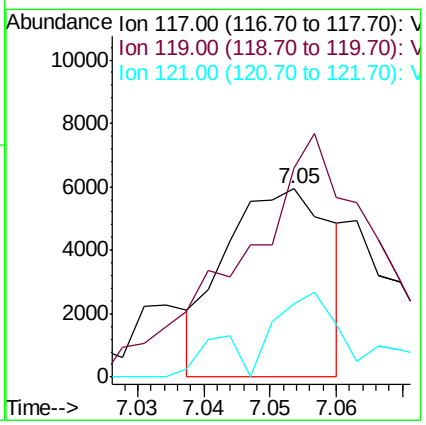


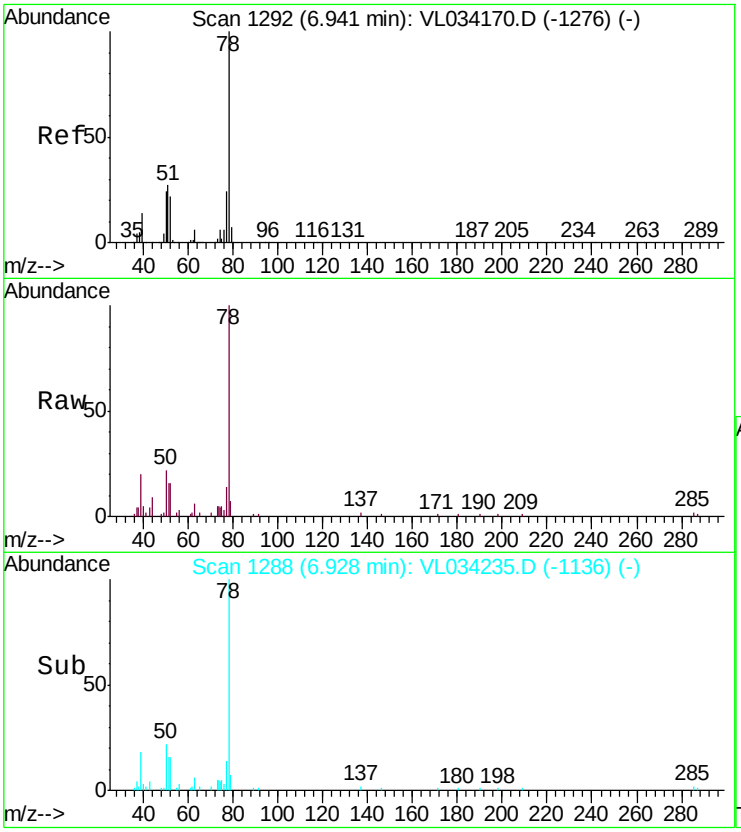


#35
Carbon Tetrachloride
Concen: 0.043 ppbv
RT: 7.05 min Scan# 1327
Delta R.T. -0.02 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Tgt Ion:117 Resp: 6567

Ion	Ratio	Lower	Upper
117	100		
119	110.0	75.8	113.6
121	50.2	25.0	37.6#



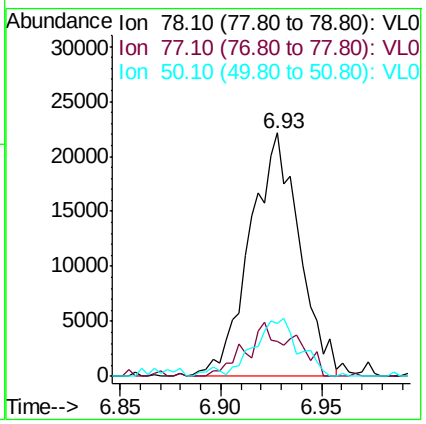


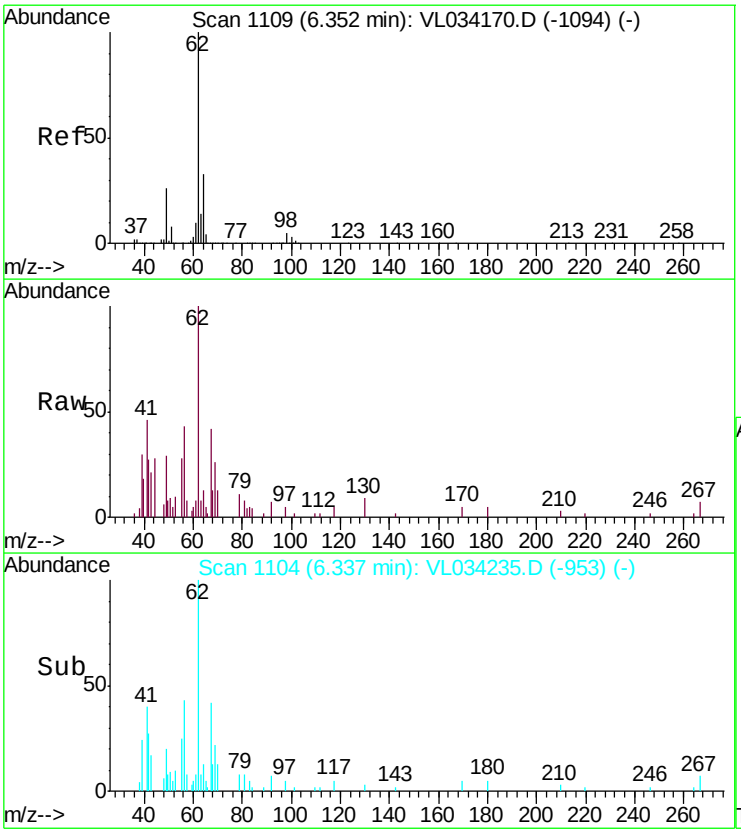
#36
Benzene
Concen: 0.185 ppbv
RT: 6.93 min Scan# 1288
Delta R.T. -0.01 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 78 Resp: 37826

Ion	Ratio	Lower	Upper
78	100		
77	13.6	19.0	28.4#
50	20.5	18.9	28.3

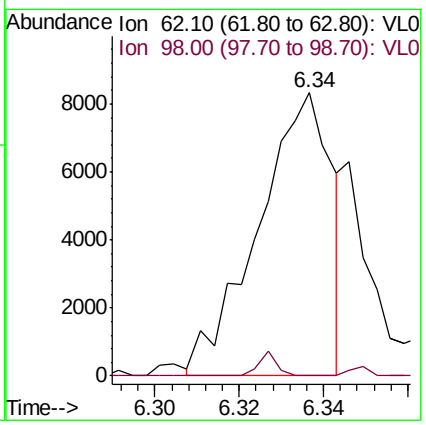


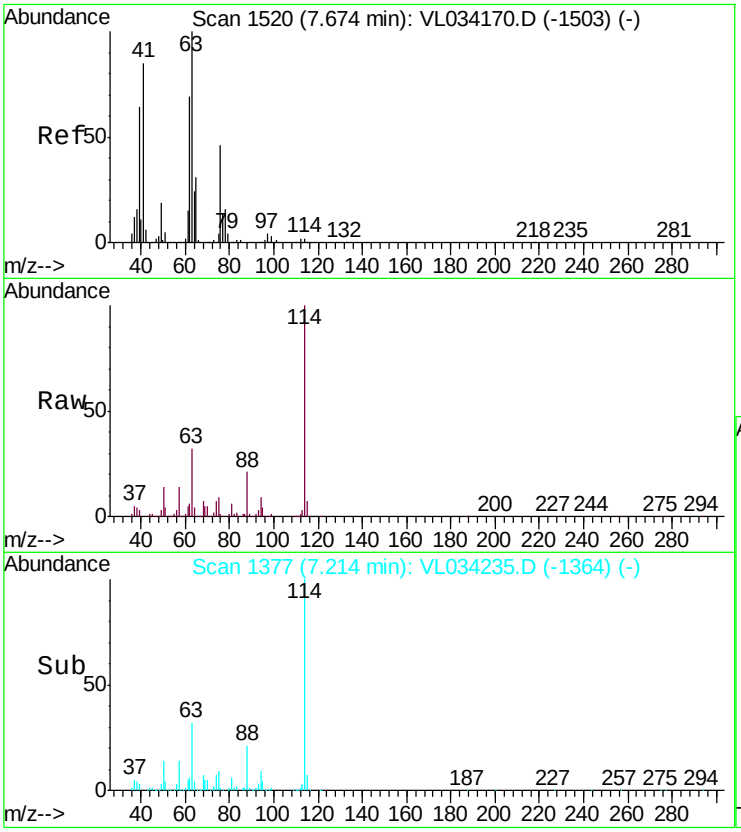


#37
1,2-Dichloroethane
Concen: 0.069 ppbv
RT: 6.34 min Scan# 1104
Delta R.T. -0.02 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Tgt Ion: 62 Resp: 10075

Ion	Ratio	Lower	Upper
62	100		
98	2.9	3.8	5.8#



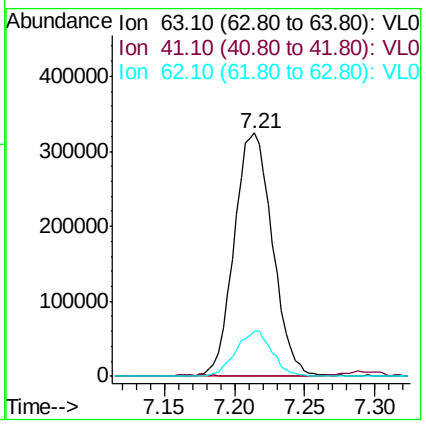


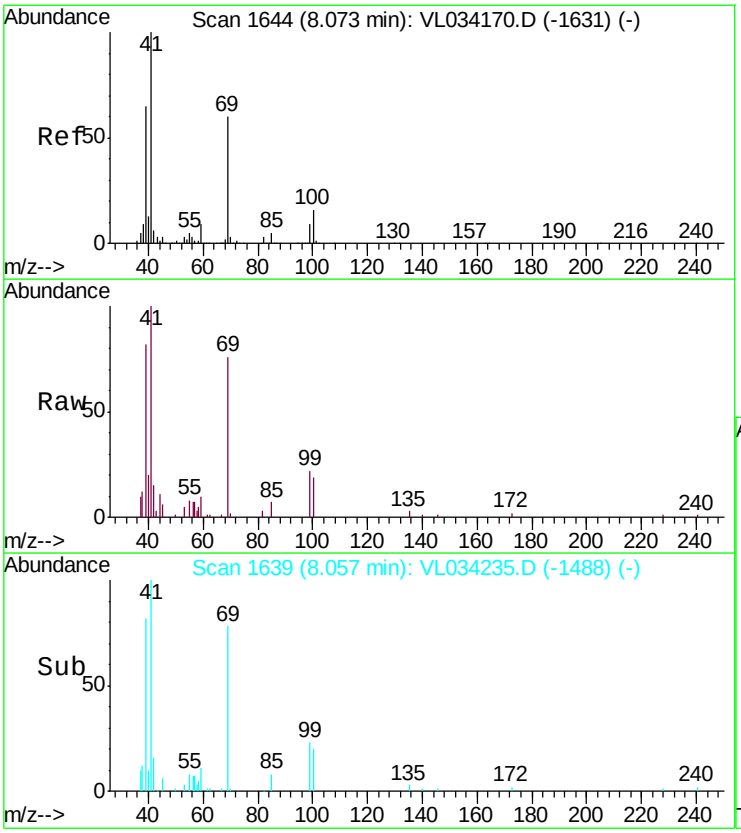
#39
1,2-Dichloropropane
Concen: 6.718 ppbv
RT: 7.21 min Scan# 1377
Delta R.T. -0.46 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion: 63 Resp: 617895

Ion	Ratio	Lower	Upper
63	100		
41	0.0	68.4	102.6#
62	18.6	55.4	83.2#

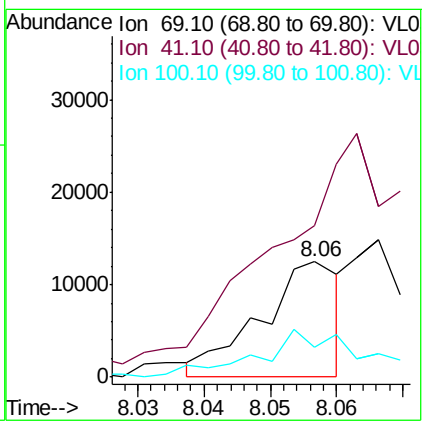


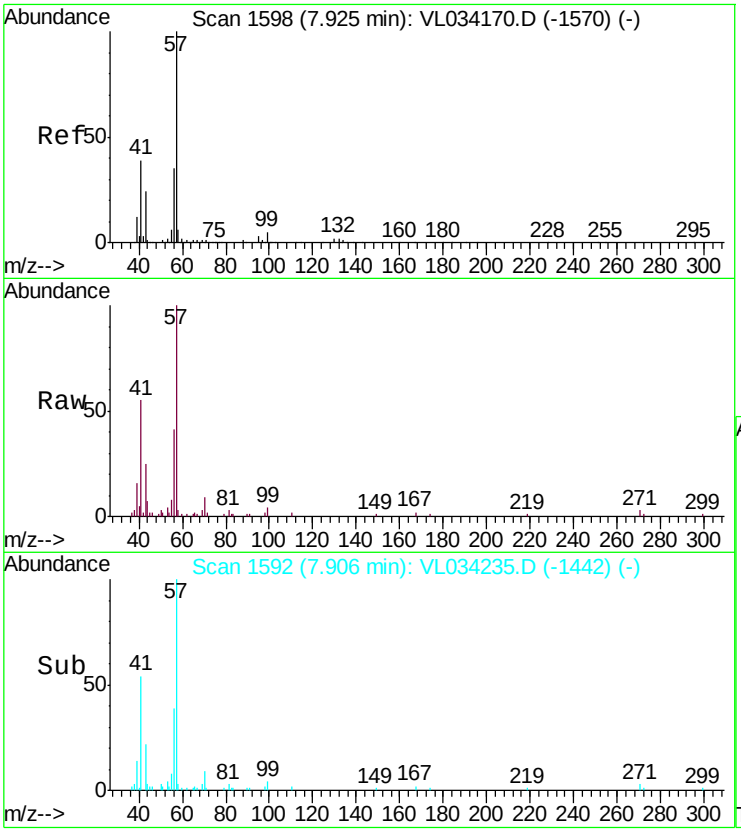


#43
Methyl Methacrylate
Concen: 0.122 ppbv
RT: 8.06 min Scan# 1639
Delta R.T. -0.02 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Tgt Ion: 69 Resp: 10354

Ion	Ratio	Lower	Upper
69	100		
41	0.0	140.4	210.6#
100	68.4	21.9	32.9#



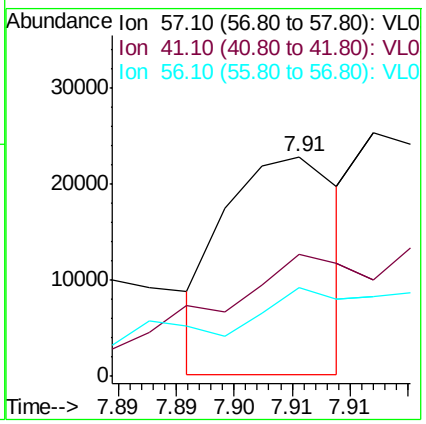


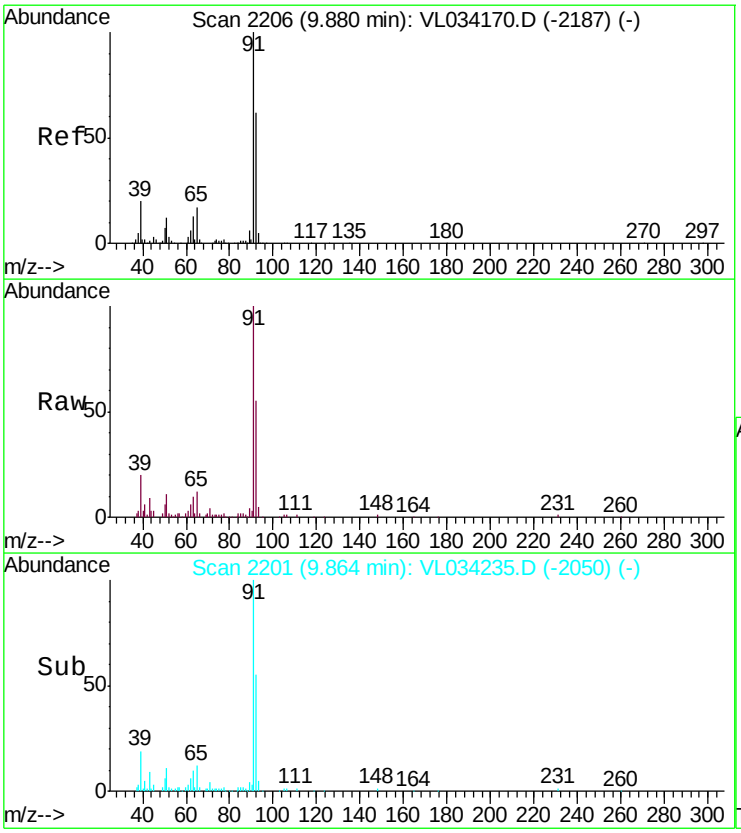
#44
2,2,4-Trimethylpentane
Concen: 0.040 ppbv
RT: 7.91 min Scan# 1592
Delta R.T. -0.02 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion: 57 Resp: 15732

Ion	Ratio	Lower	Upper
57	100		
41	0.0	29.8	44.6#
56	141.1	25.9	38.9#

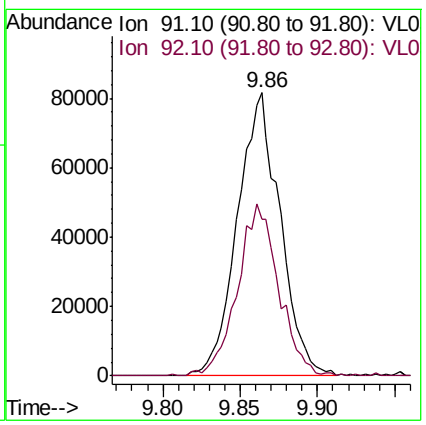


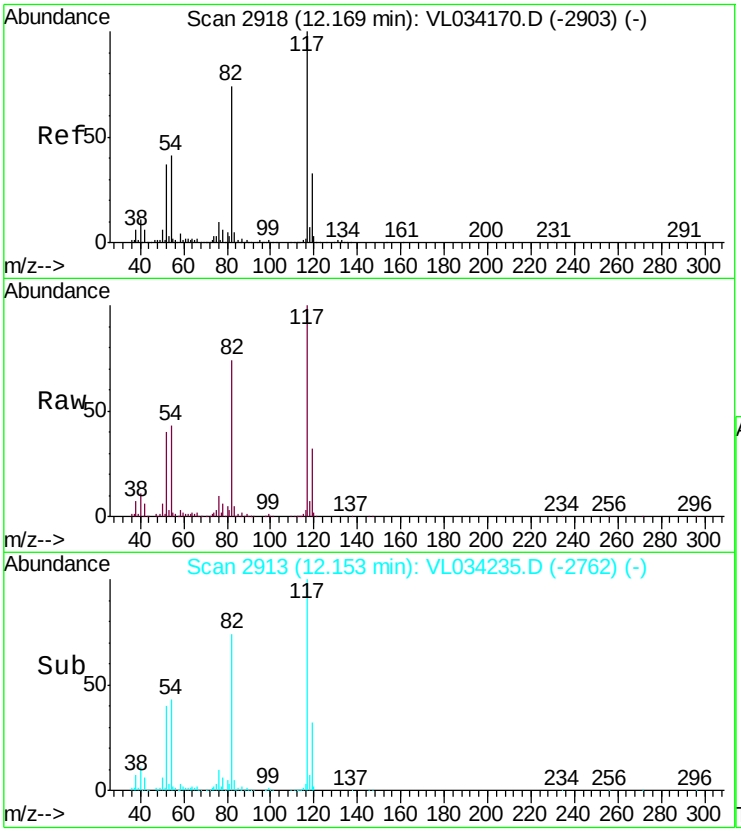


#53
Toluene
Concen: 0.699 ppbv
RT: 9.86 min Scan# 2201
Delta R.T. -0.02 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Tgt Ion: 91 Resp: 156408

Ion	Ratio	Lower	Upper
91	100		
92	58.9	49.0	73.6



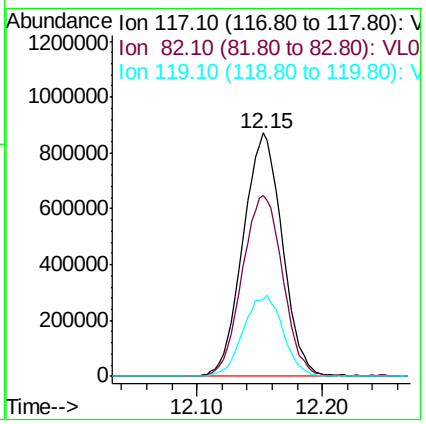


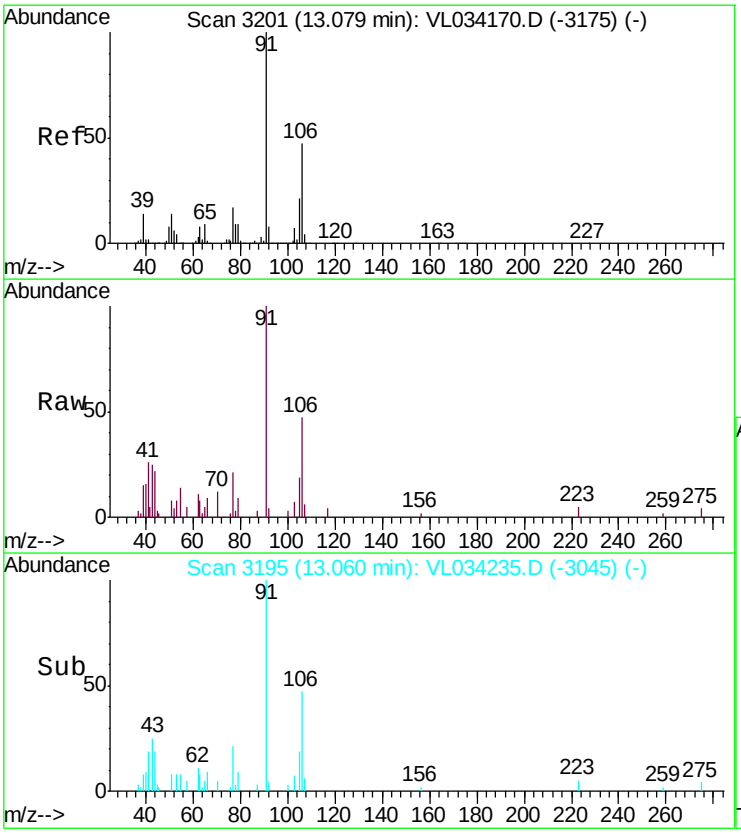
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.15 min Scan# 2913
Delta R.T. -0.02 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion:117 Resp: 1894360

Ion	Ratio	Lower	Upper
117	100		
82	76.5	58.2	87.4
119	33.6	23.7	35.5

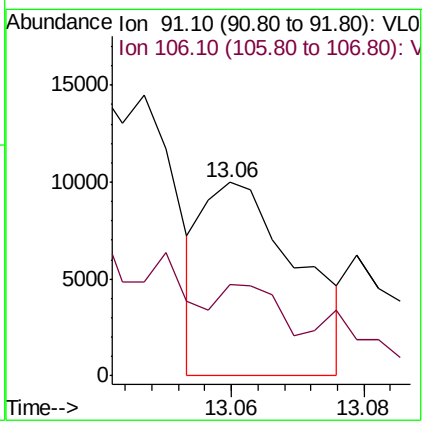


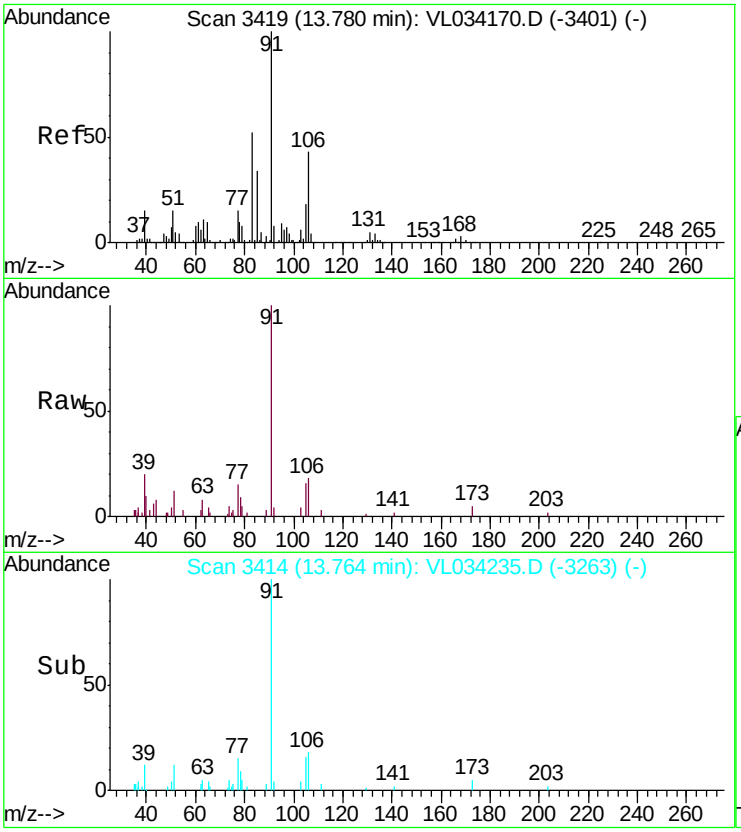


#59
m/p-Xylene
Concen: 0.039 ppbv
RT: 13.06 min Scan# 3195
Delta R.T. -0.02 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Tgt Ion: 91 Resp: 9961

Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.5	53.3#



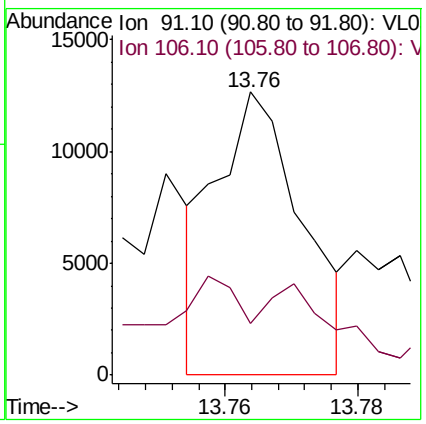


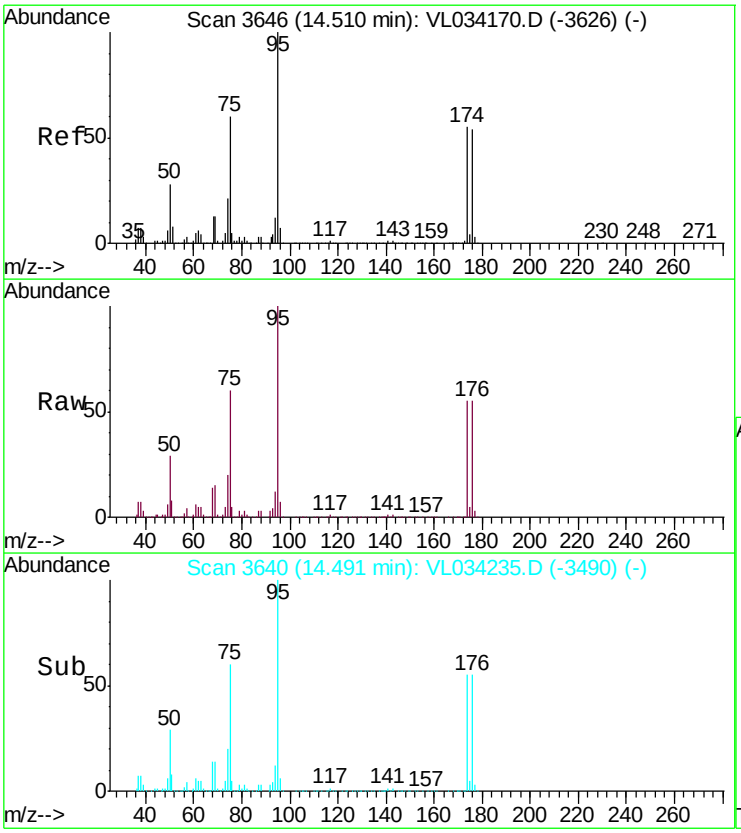
#60
o-Xylene
Concen: 0.045 ppbv
RT: 13.76 min Scan# 3414
Delta R.T. -0.02 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion: 91 Resp: 11461

Ion	Ratio	Lower	Upper
91	100		
106	0.0	21.2	63.6#

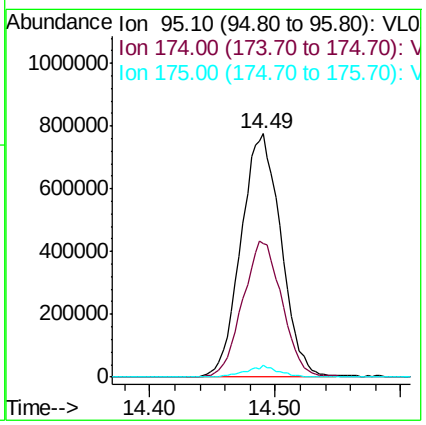


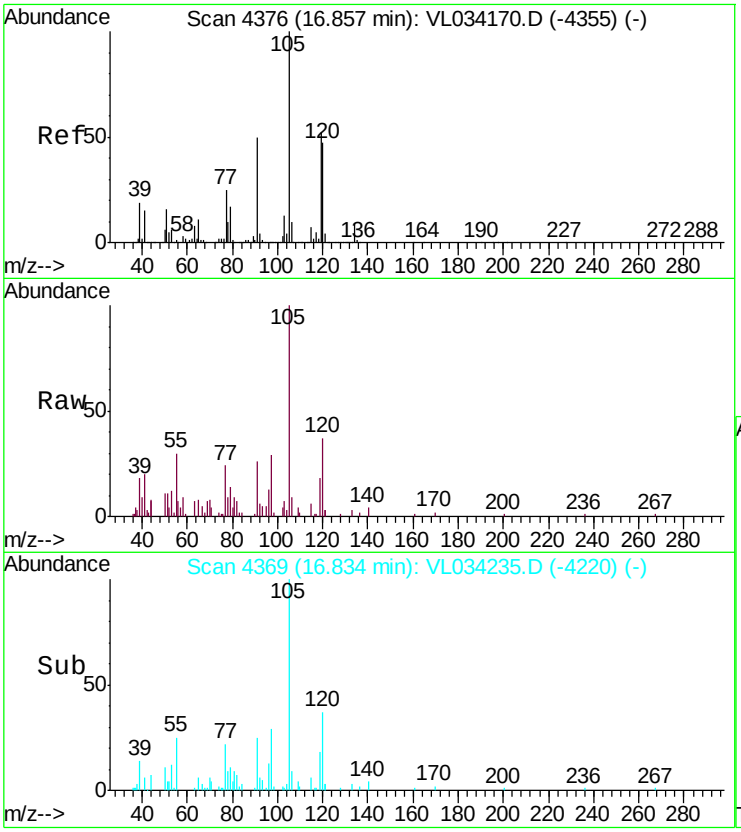


#68
1-Bromo-4-Fluorobenzene
Concen: 10.446 ppbv
RT: 14.49 min Scan# 3640
Delta R.T. -0.02 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Tgt Ion: 95 Resp: 1719512

Ion	Ratio	Lower	Upper
95	100		
174	55.5	45.1	67.7
175	4.0	3.3	4.9



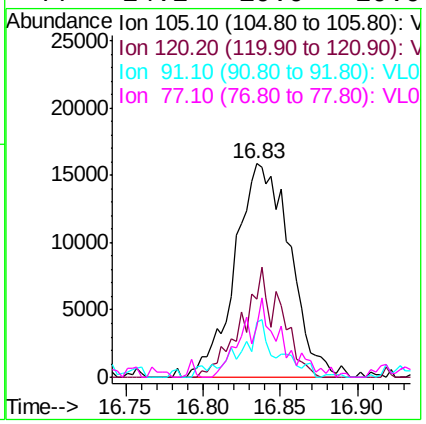


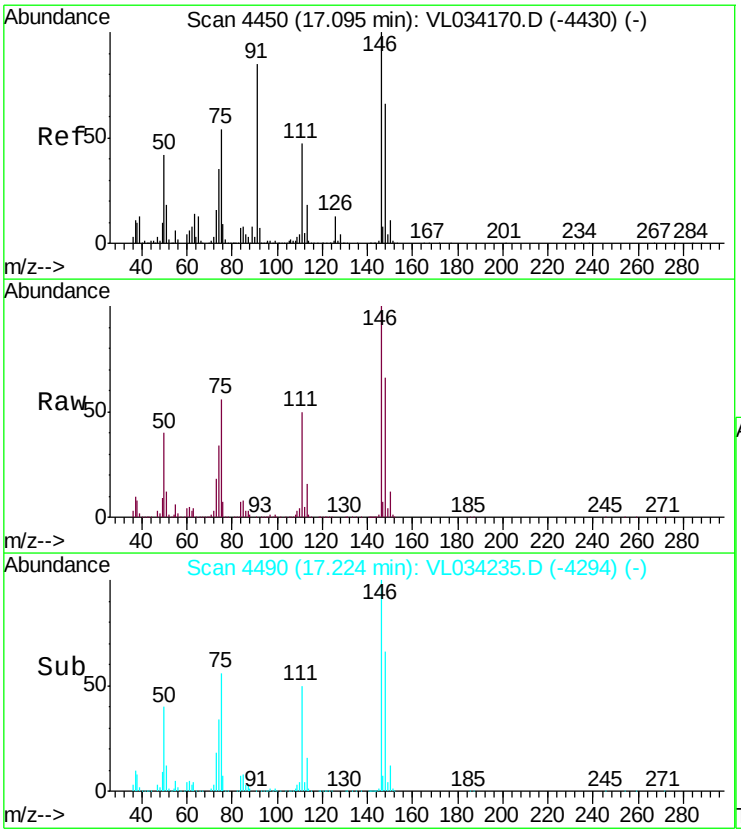
#74
1,2,4-Trimethylbenzene
Concen: 0.133 ppbv
RT: 16.83 min Scan# 4369
Delta R.T. -0.02 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion:105 Resp: 38965

Ion	Ratio	Lower	Upper
105	100		
120	39.9	37.5	56.3
91	26.0	41.1	61.7#
77	24.2	19.9	29.9

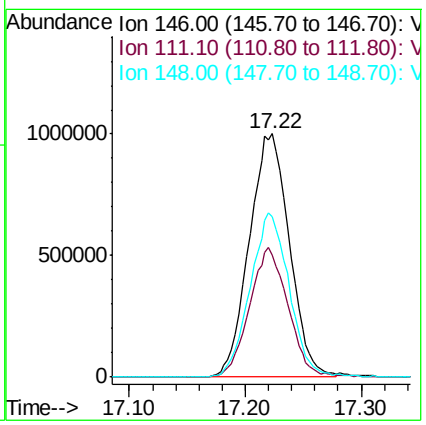


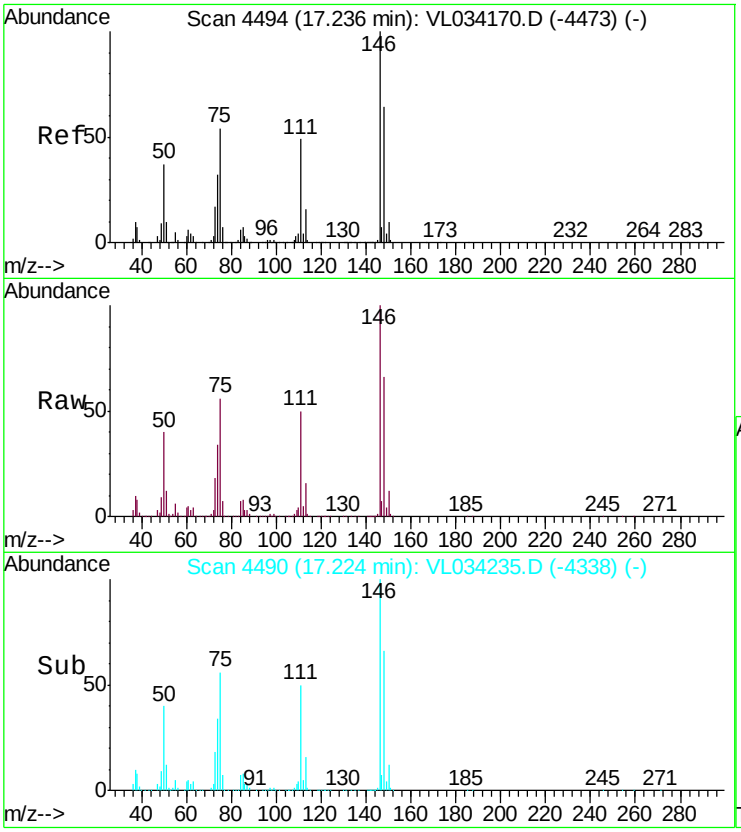


#75
1,3-Dichlorobenzene
Concen: 15.323 ppbv
RT: 17.22 min Scan# 4490
Delta R.T. 0.13 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Tgt Ion:146 Resp: 2411989

Ion	Ratio	Lower	Upper
146	100		
111	51.4	25.9	77.8
148	65.7	32.6	97.7



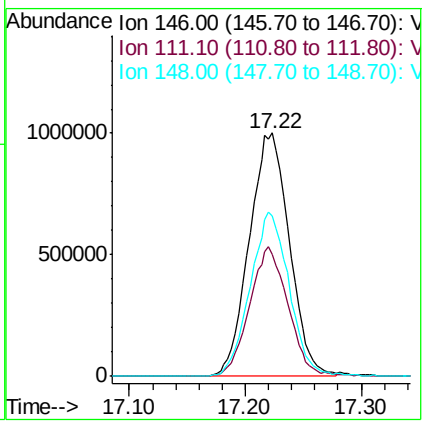


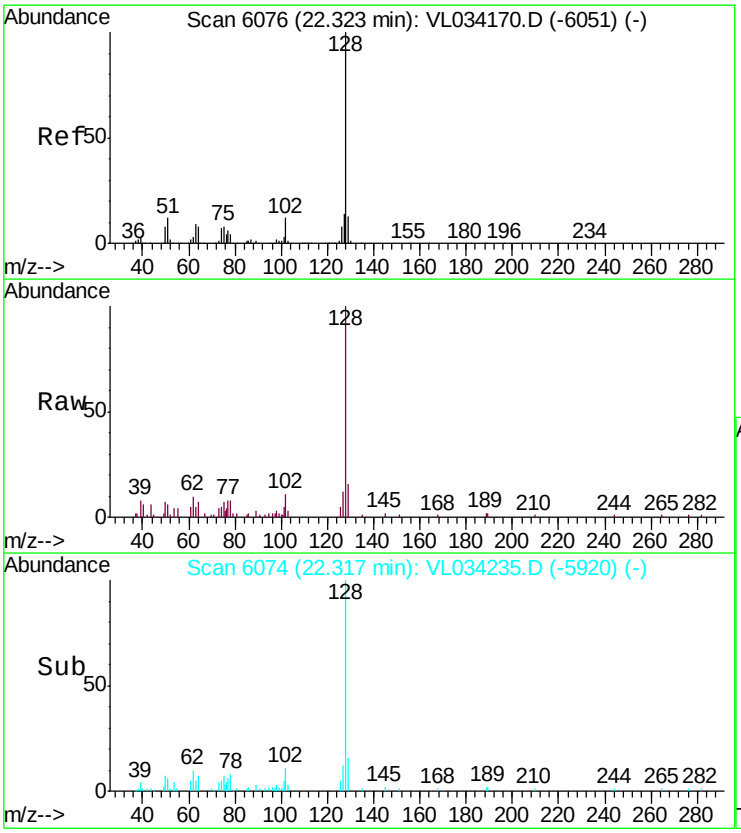
#76
1,4-Dichlorobenzene
Concen: 14.962 ppbv
RT: 17.22 min Scan# 4490
Delta R.T. -0.01 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion:146 Resp: 2411989

Ion	Ratio	Lower	Upper
146	100		
111	51.3	24.6	74.0
148	65.7	32.4	97.0

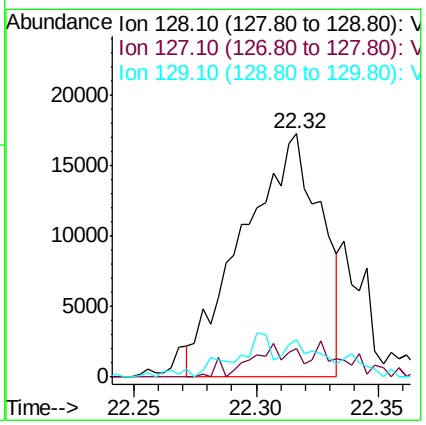


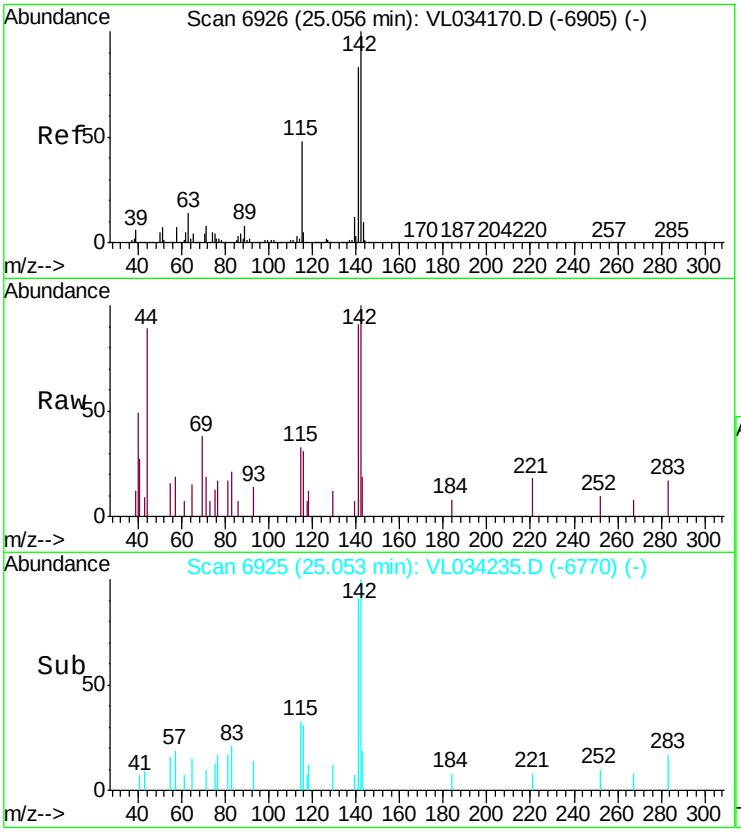


#79
Naphthalene
Concen: 0.148 ppbv
RT: 22.32 min Scan# 6074
Delta R.T. -0.01 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Tgt Ion:128 Resp: 38268

Ion	Ratio	Lower	Upper
128	100		
127	6.9	11.1	16.7#
129	14.1	10.2	15.4





#80
Naphthalene,2-methyl-
Concen: 0.030 ppbv
RT: 25.05 min Scan# 6925
Delta R.T. -0.00 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion:142 Resp: 3628

Ion	Ratio	Lower	Upper
142	100		
141	85.3	67.6	101.4
115	61.6	36.9	55.3#