Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100719\
Data File : VL034244.D
Acq On : 8 Oct 2019 5:38
Operator : SY/AP
Sample : K5222-04DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : V-4DL

Quant Time: Oct 09 02:24:35 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	897258	10.00	ppbv		-0.01
33) 1,4-Difluorobenzene	7.21	114	1682811	10.00	ppbv		-0.02
55) Chlorobenzene-d5	12.15	117	1699494	10.00	ppbv		-0.02
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	14.49	95	1462157	9.90	ppbv		-0.02
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.00%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.03	85	9436	0.071	ppbv		92
3) Chlorodifluoromethane	2.97	51	9678	0.092	ppbv	#	78
4) Chloromethane	3.12	50	3834	0.062	ppbv	#	75
9) Propene	2.99	41	117438	2.263	ppbv		92
10) Heptane	8.17	43	55726	0.412	ppbv		91
13) Ethanol	3.60	45	254374	20.239	ppbv		98
15) Acetone	3.84	43	507302	4.218	ppbv		98
16) 1,3-Butadiene	3.29	39	69830	1.331	ppbv	#	48
17) tert-Butyl alcohol	4.32	59	4687	0.062	ppbv	#	71
19) Isopropyl Alcohol	3.99	45	6679	0.090	ppbv	#	95
20) Methylene Chloride	4.35	84	11680	0.337	ppbv	#	90
21) Allyl Chloride	4.37	41	16340	0.241	ppbv	#	34
23) Vinyl Acetate	5.07	43	57806	0.326	ppbv	#	1
25) Ethyl Acetate	5.71	43	78862	0.347	ppbv	#	81
26) Hexane	5.71	57	106120	1.122	ppbv	#	42
30) Cyclohexane	7.17	84	22381	0.328	ppbv	#	10
34) 2-Butanone	5.27	43	47733	0.278	ppbv		95
36) Benzene	6.92	78	149194	0.803	ppbv	#	89
39) 1,2-Dichloropropane	7.21	63	521064	6.240	ppbv	#	21
44) 2,2,4-Trimethylpentane	7.91	57	72920	0.204	ppbv	#	42
53) Toluene	9.86	91	487923	2.402	ppbv		96
58) Ethyl Benzene	12.78	91	45426	0.166	ppbv		95
59) m/p-Xylene	13.07	91	44152	0.194	ppbv	#	32
60) o-Xylene	13.77	91	55056	0.242	ppbv	#	65
61) Styrene	13.59	104	5918	0.036	ppbv	#	24
72) 4-Ethyltoluene	15.91	105	8388	0.033	ppbv	#	19
73) 1,3,5-Trimethylbenzene	16.06	105	10849	0.044	ppbv		99
74) 1,2,4-Trimethylbenzene	16.84	105	93515	0.355	ppbv	#	65

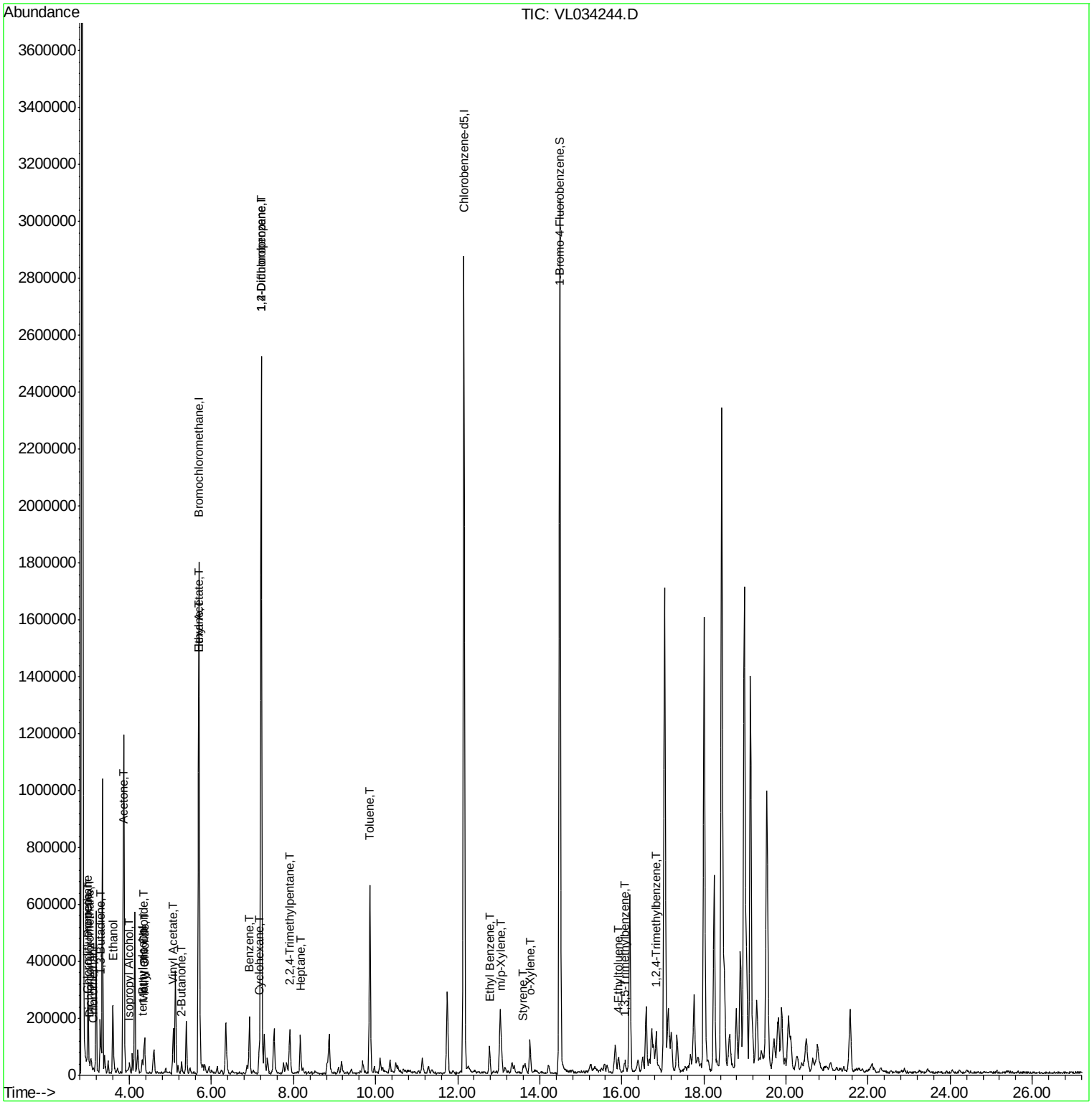
(#) = qualifier out of range (m) = manual integration (+) = signals summed

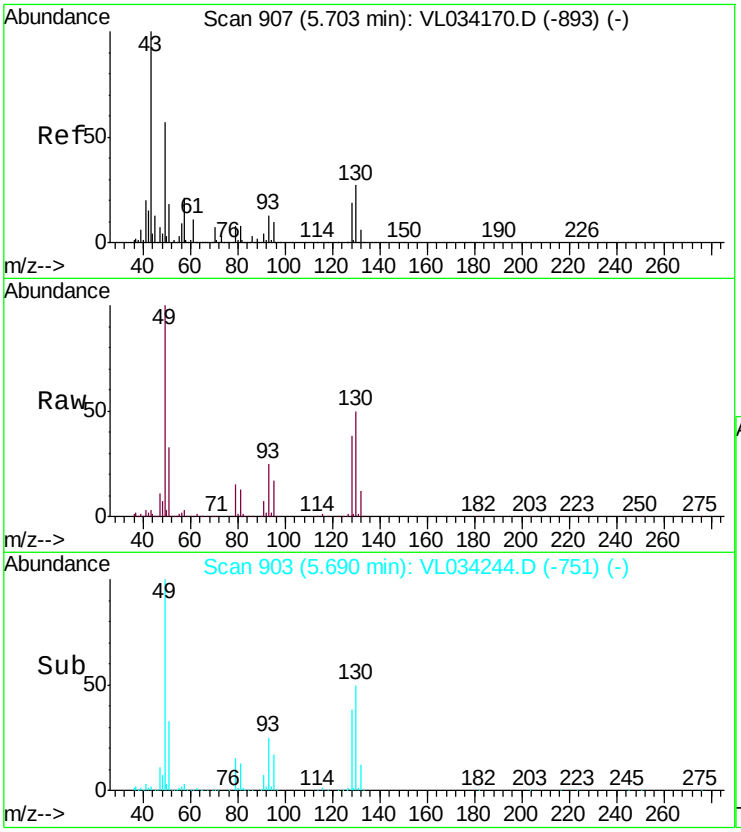
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100719\
Data File : VL034244.D
Acq On : 8 Oct 2019 5:38
Operator : SY/AP
Sample : K5222-04DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : V-4DL

Quant Time: Oct 09 02:24:35 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



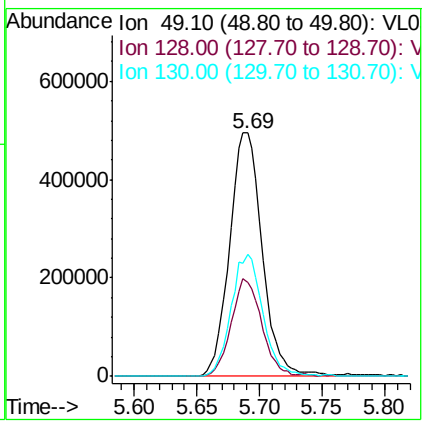


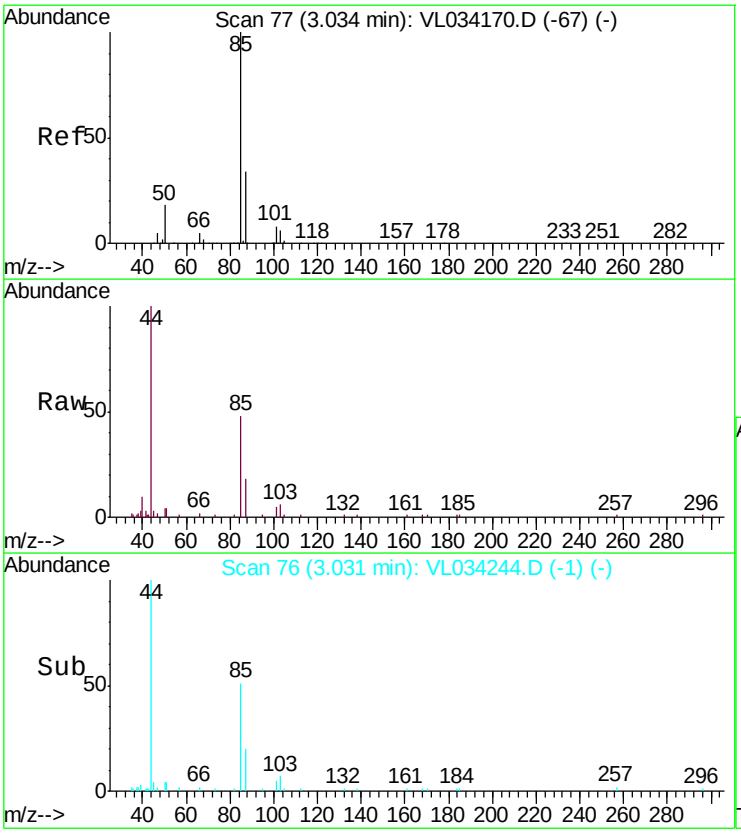
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.69 min Scan# 903
Delta R.T. -0.01 min
Lab File: VL034244.D
Acq: 8 Oct 2019 5:38

Instrument : MSVOA_L
ClientSampleId : V-4DL

Tgt Ion: 49 Resp: 897258

Ion	Ratio	Lower	Upper
49	100		
128	38.0	17.6	52.9
130	49.1	22.3	66.9

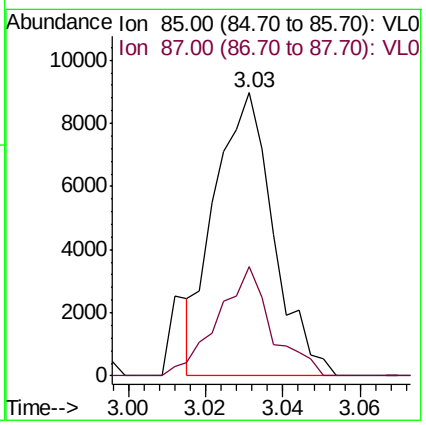


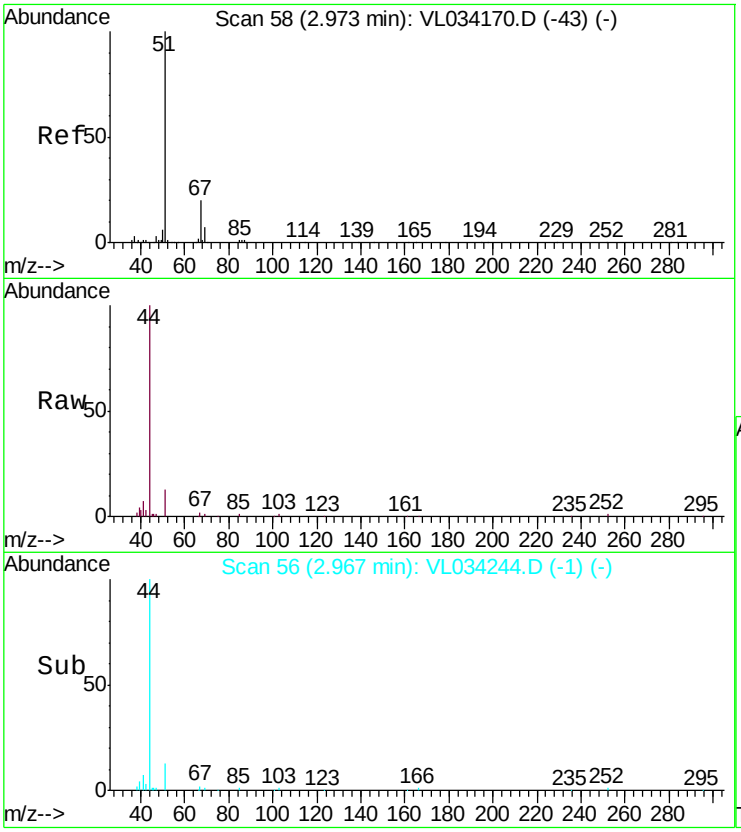


#2
Dichlorodifluoromethane
Concen: 0.071 ppbv
RT: 3.03 min Scan# 76
Delta R.T. -0.00 min
Lab File: VL034244.D
Acq: 8 Oct 2019 5:38

Tgt Ion: 85 Resp: 9436

Ion	Ratio	Lower	Upper
85	100		
87	38.7	27.2	40.8



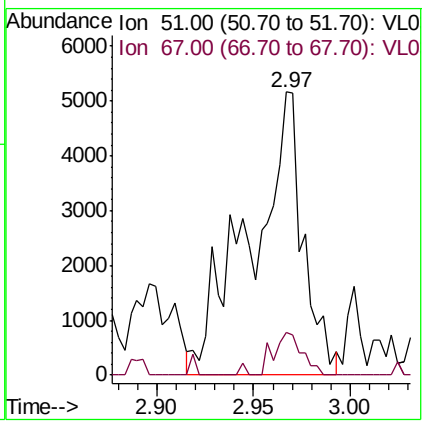


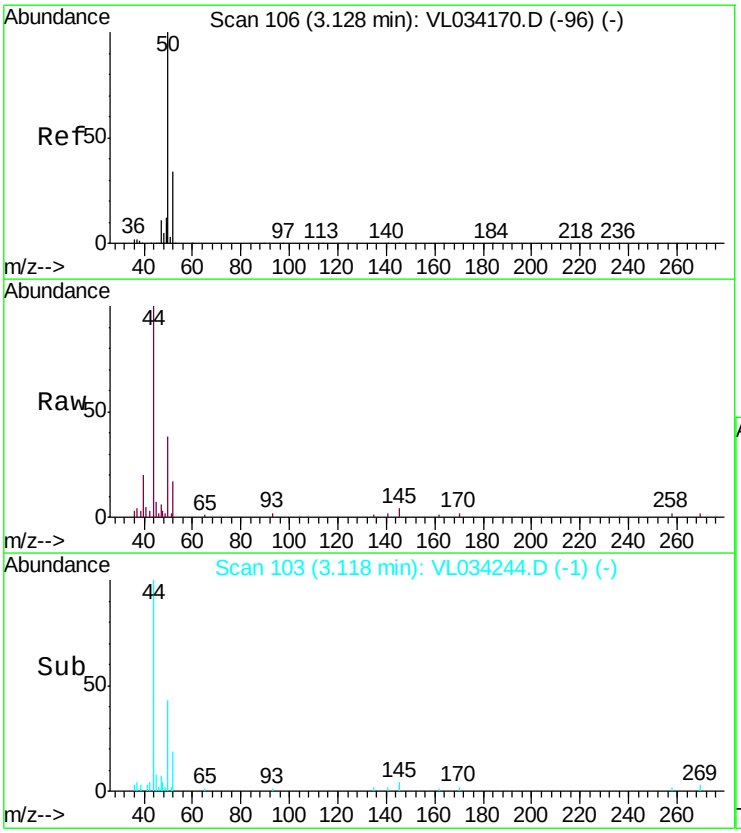
#3
Chlorodifluoromethane
Concen: 0.092 ppbv
RT: 2.97 min Scan# 56
Delta R.T. -0.01 min
Lab File: VL034244.D
Acq: 8 Oct 2019 5:38

Instrument : MSVOA_L
ClientSampleId : V-4DL

Tgt Ion: 51 Resp: 9678

Ion	Ratio	Lower	Upper
51	100		
67	8.6	14.8	22.2#

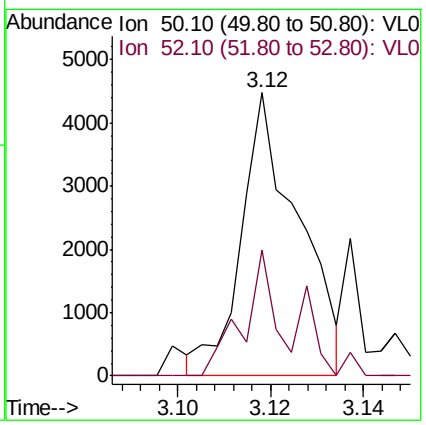


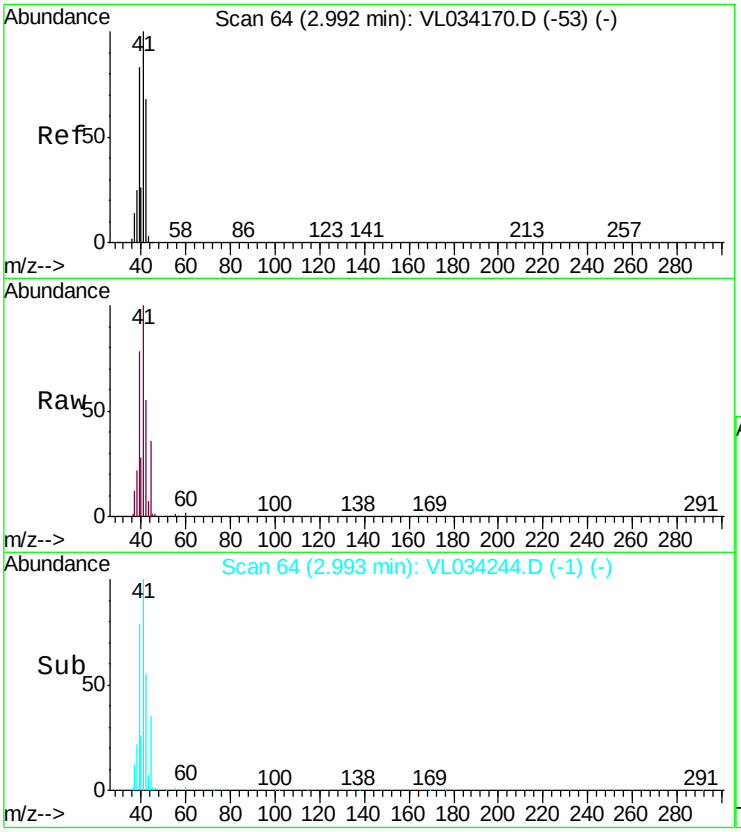


#4
Chloromethane
Concen: 0.062 ppbv
RT: 3.12 min Scan# 103
Delta R.T. -0.01 min
Lab File: VL034244.D
Acq: 8 Oct 2019 5:38

Tgt Ion: 50 Resp: 3834

Ion	Ratio	Lower	Upper
50	100		
52	48.0	27.1	40.7#



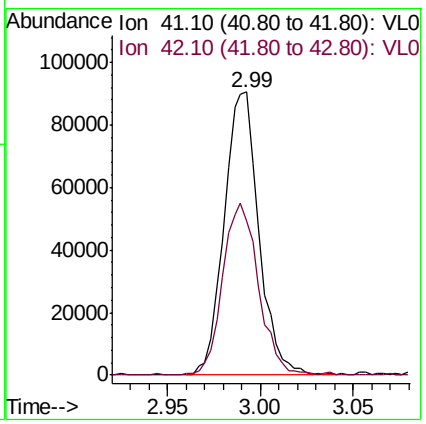


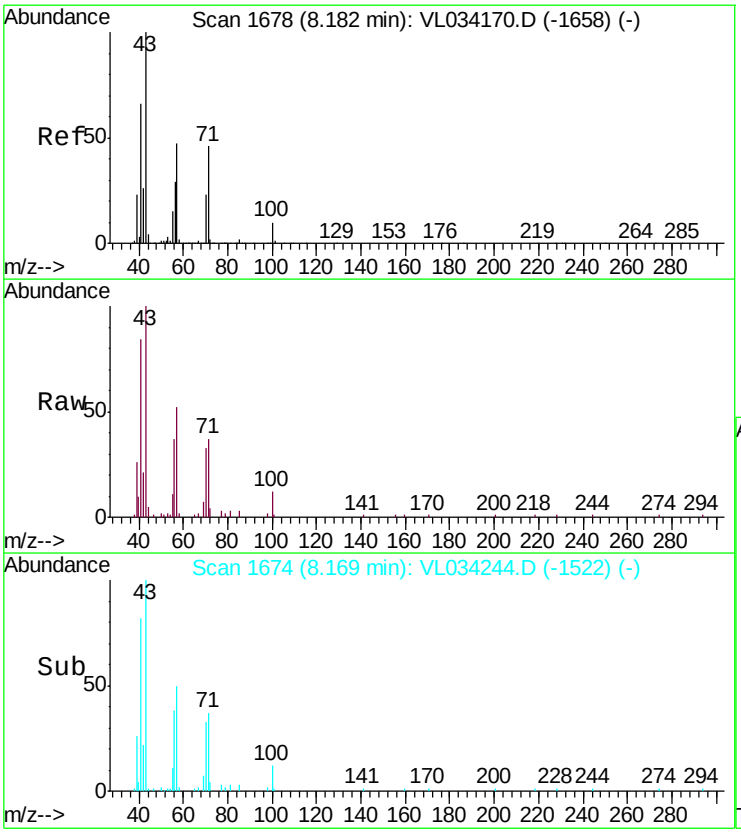
#9
Propene
Concen: 2.263 ppbv
RT: 2.99 min Scan# 64
Delta R.T. 0.00 min
Lab File: VL034244.D
Acq: 8 Oct 2019 5:38

Instrument : MSVOA_L
ClientSampleId : V-4DL

Tgt Ion: 41 Resp: 117438

Ion	Ratio	Lower	Upper
41	100		
42	63.4	55.8	83.6

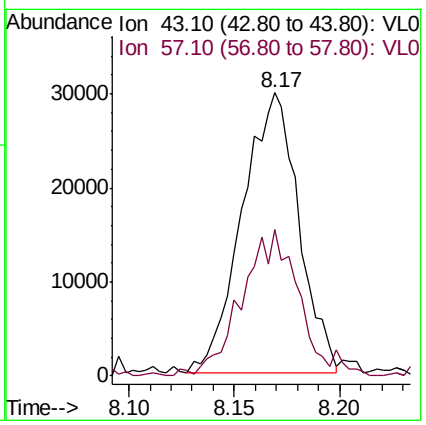


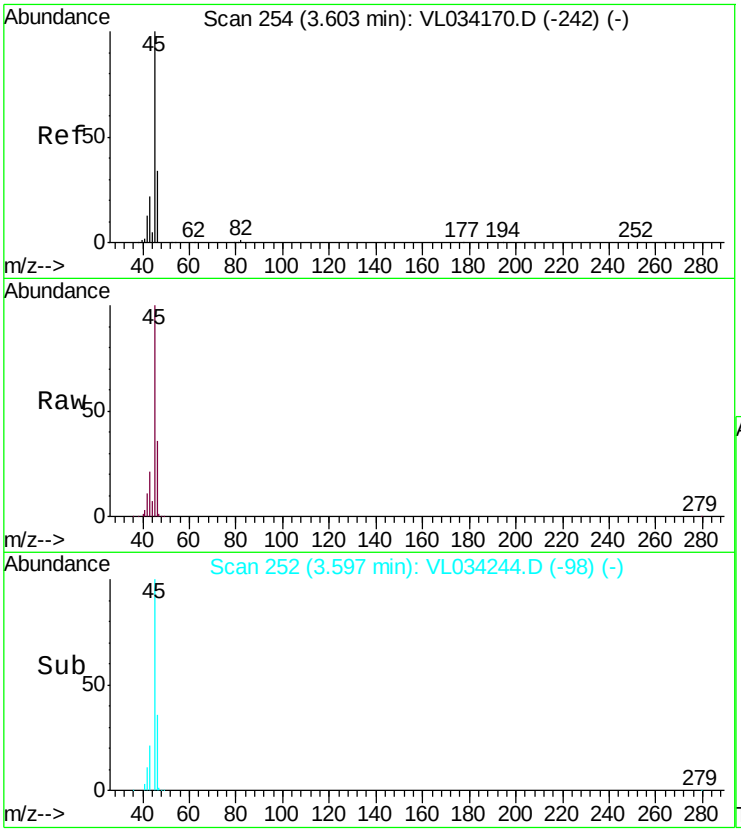


#10
Heptane
Concen: 0.412 ppbv
RT: 8.17 min Scan# 1674
Delta R.T. -0.01 min
Lab File: VL034244.D
Acq: 8 Oct 2019 5:38

Tgt Ion: 43 Resp: 55726

Ion	Ratio	Lower	Upper
43	100		
57	52.7	37.5	56.3



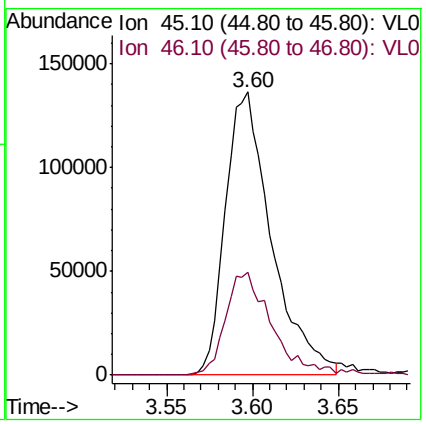


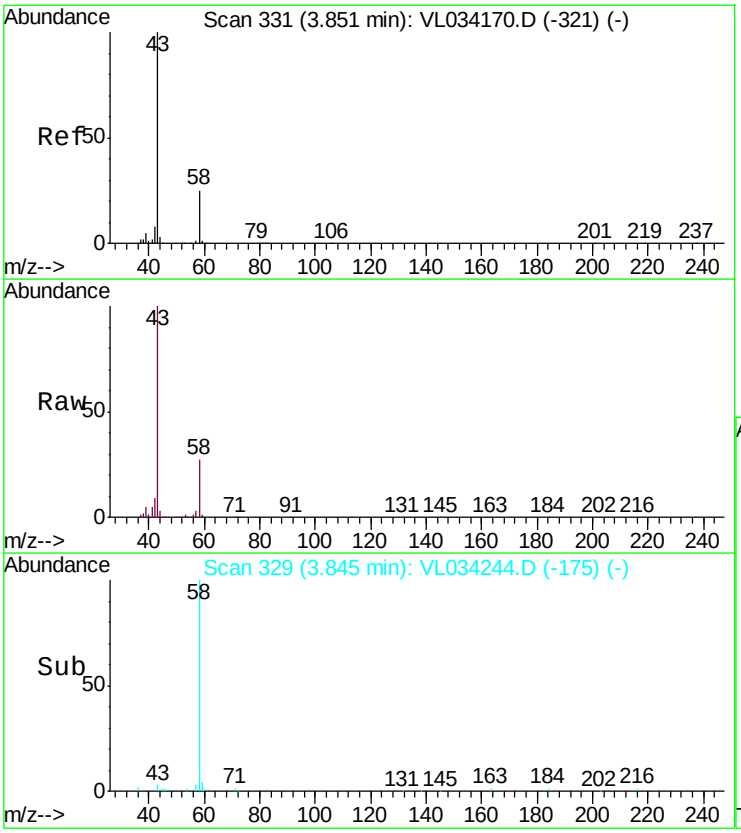
#13
Ethanol
Concen: 20.239 ppbv
RT: 3.60 min Scan# 252
Delta R.T. -0.01 min
Lab File: VL034244.D
Acq: 8 Oct 2019 5:38

Instrument : MSVOA_L
ClientSampleId : V-4DL

Tgt Ion: 45 Resp: 254374

Ion	Ratio	Lower	Upper
45	100		
46	37.4	15.5	61.9

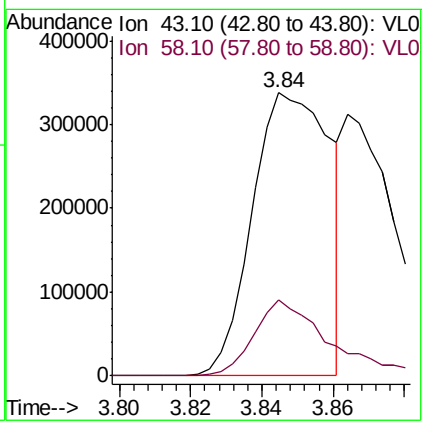


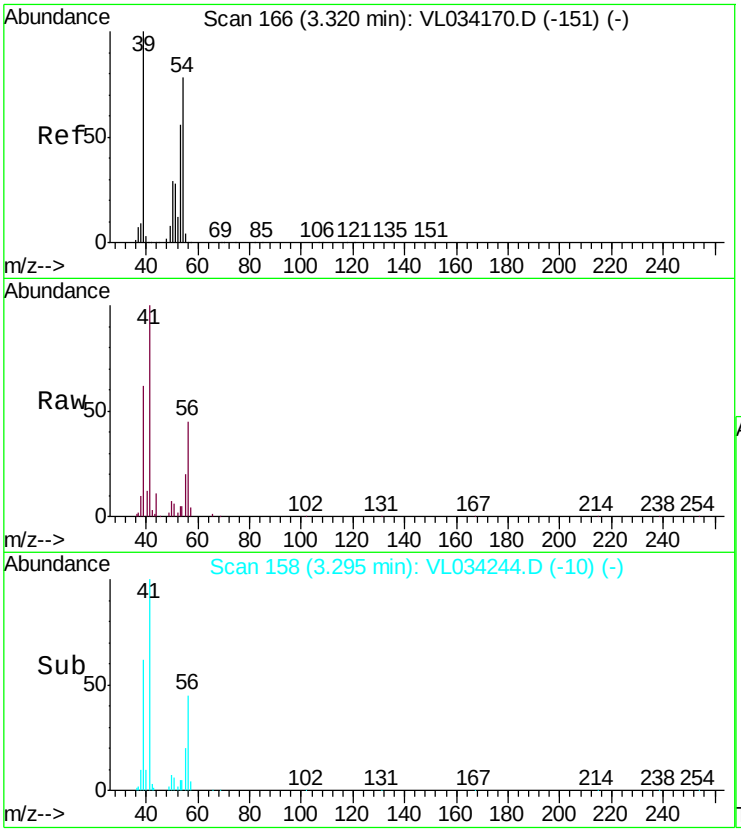


#15
Acetone
Concen: 4.218 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.01 min
Lab File: VL034244.D
Acq: 8 Oct 2019 5:38

Tgt Ion: 43 Resp: 507302

Ion	Ratio	Lower	Upper
43	100		
58	26.6	20.5	30.7



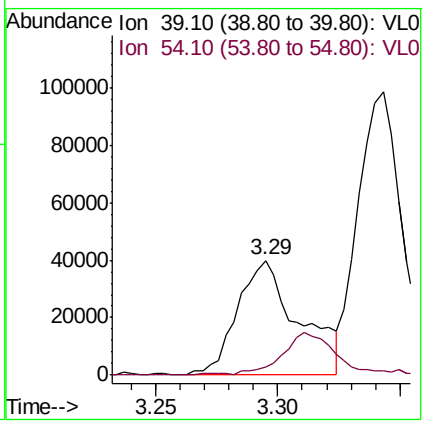


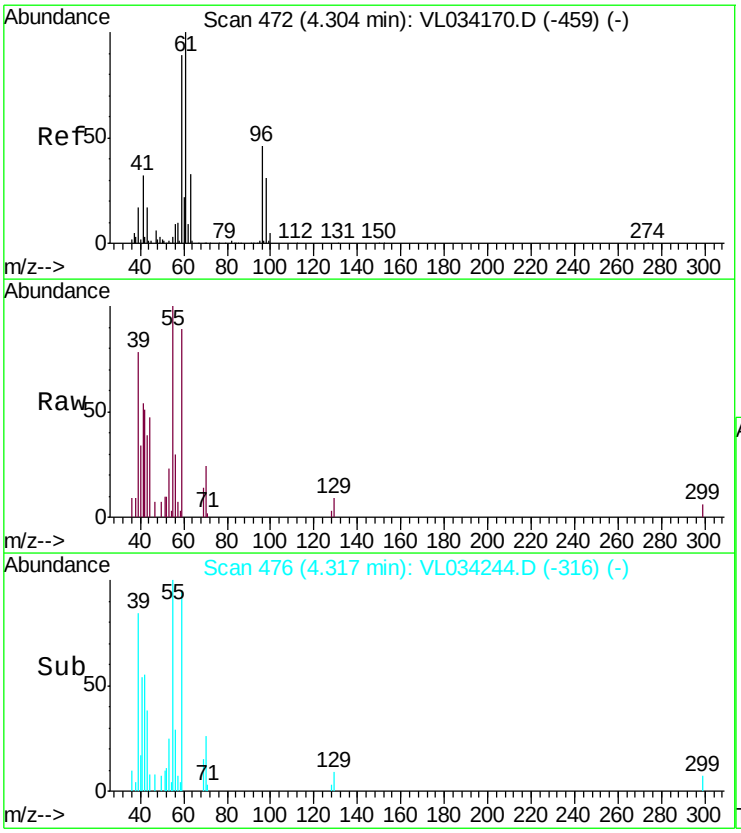
#16
1,3-Butadiene
Concen: 1.331 ppbv
RT: 3.29 min Scan# 158
Delta R.T. -0.03 min
Lab File: VL034244.D
Acq: 8 Oct 2019 5:38

Instrument : MSVOA_L
ClientSampleId : V-4DL

Tgt Ion: 39 Resp: 69830

Ion	Ratio	Lower	Upper
39	100		
54	33.5	63.4	95.0#

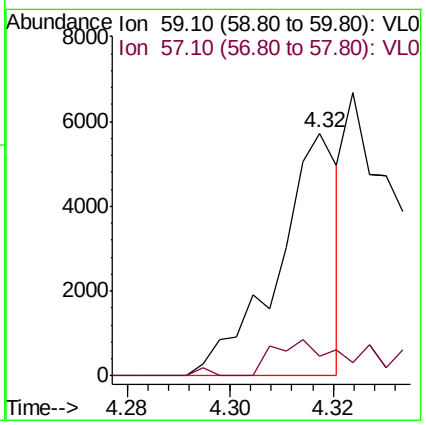


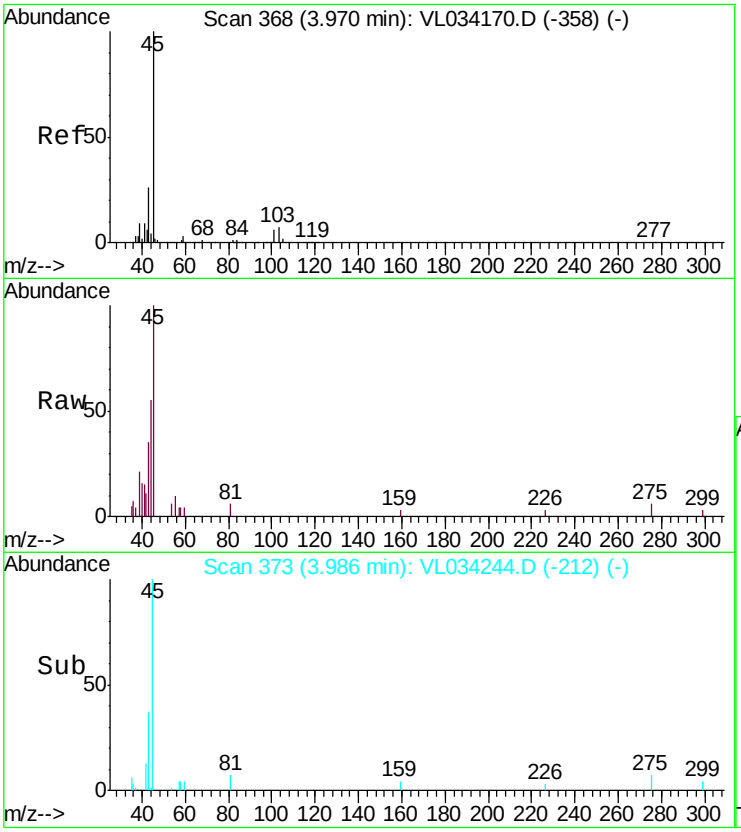


#17
tert-Butyl alcohol
Concen: 0.062 ppbv
RT: 4.32 min Scan# 476
Delta R.T. 0.01 min
Lab File: VL034244.D
Acq: 8 Oct 2019 5:38

Tgt Ion: 59 Resp: 4687

Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.7	13.1#



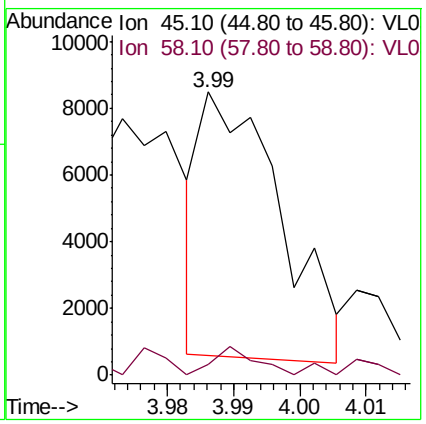


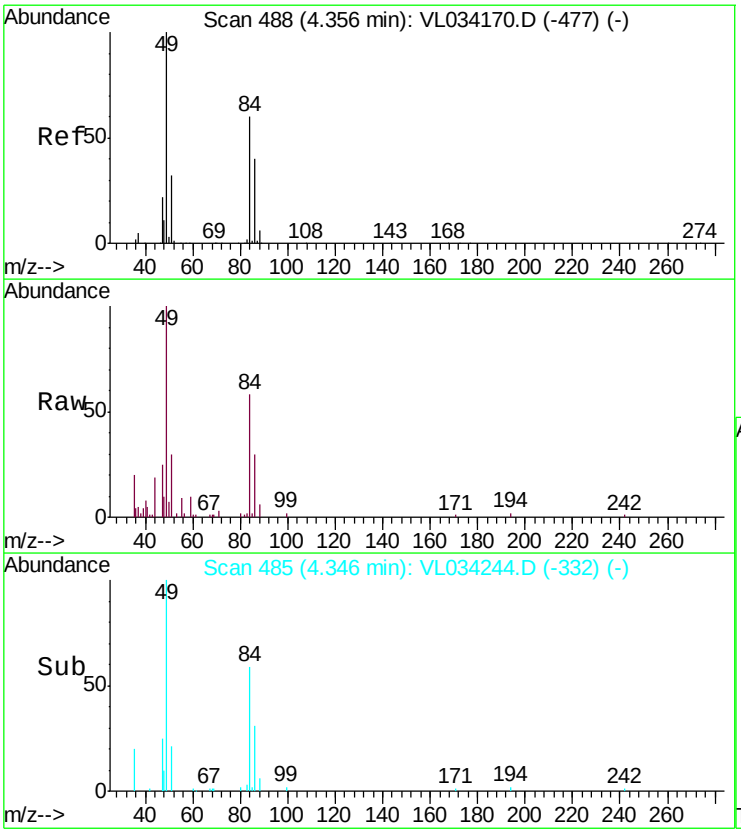
#19
Isopropyl Alcohol
Concen: 0.090 ppbv
RT: 3.99 min Scan# 373
Delta R.T. 0.02 min
Lab File: VL034244.D
Acq: 8 Oct 2019 5:38

Instrument : MSVOA_L
ClientSampleId : V-4DL

Tgt Ion: 45 Resp: 6679

Ion	Ratio	Lower	Upper
45	100		
58	0.0	1.4	2.0#

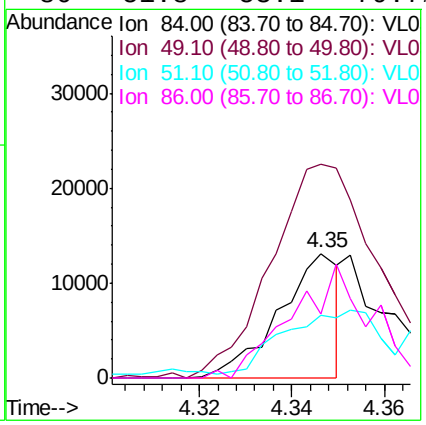


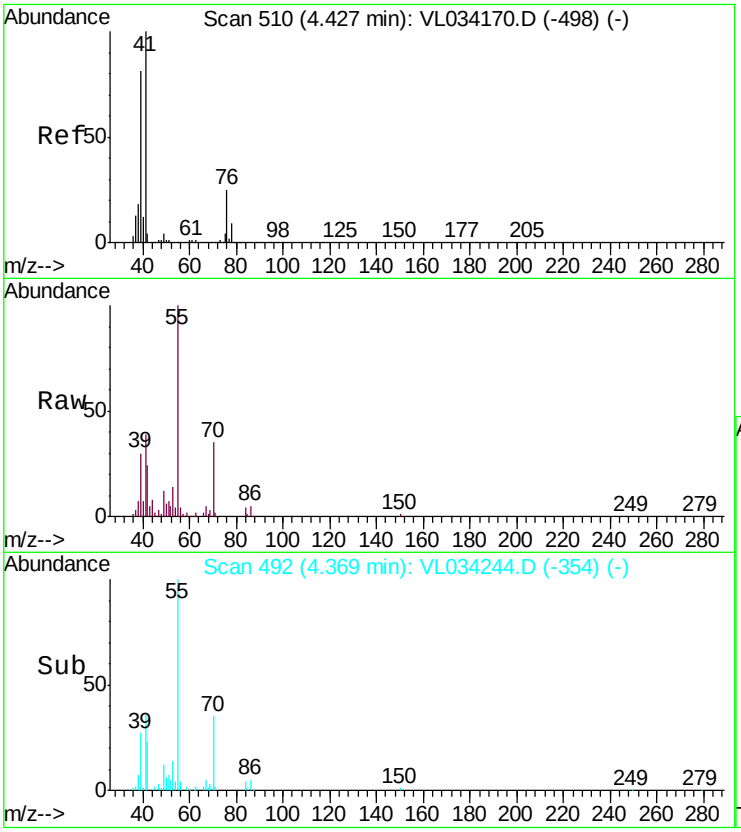


#20
Methylene Chloride
Concen: 0.337 ppbv
RT: 4.35 min Scan# 485
Delta R.T. -0.01 min
Lab File: VL034244.D
Acq: 8 Oct 2019 5:38

Tgt Ion: 84 Resp: 11680

Ion	Ratio	Lower	Upper
84	100		
49	171.6	133.8	200.8
51	40.9	43.6	65.4#
86	51.8	53.1	79.7#



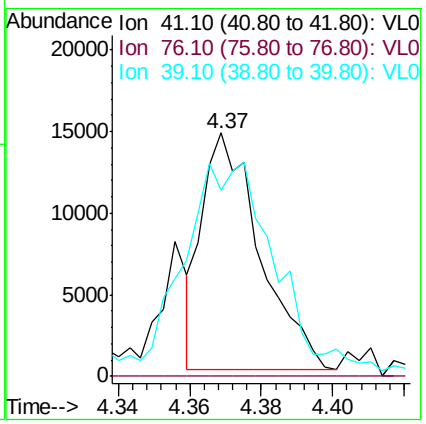


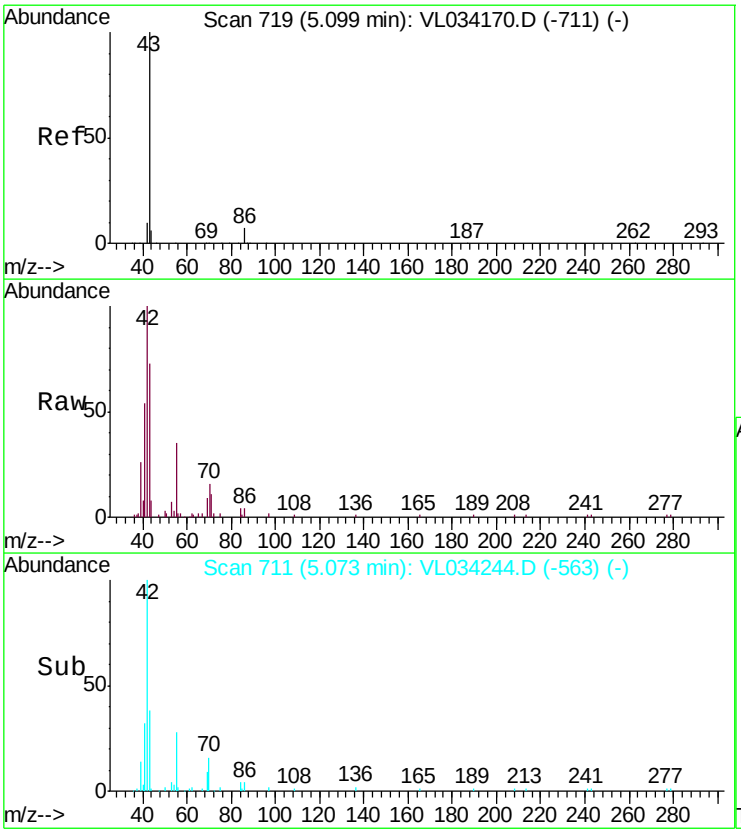
#21
Allyl Chloride
Concen: 0.241 ppbv
RT: 4.37 min Scan# 492
Delta R.T. -0.06 min
Lab File: VL034244.D
Acq: 8 Oct 2019 5:38

Instrument : MSVOA_L
ClientSampleId : V-4DL

Tgt Ion: 41 Resp: 16340

Ion	Ratio	Lower	Upper
41	100		
76	0.0	21.8	32.6#
39	143.1	64.8	97.2#

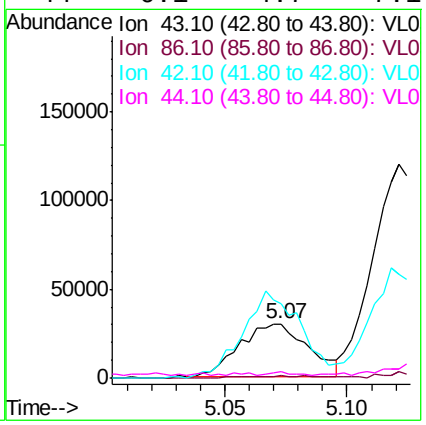


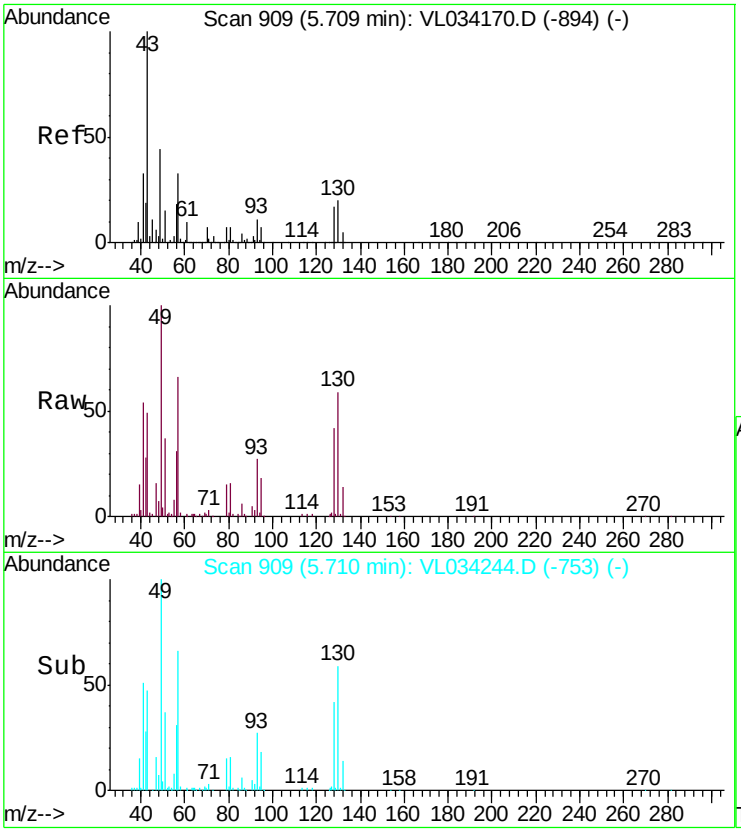


#23
Vinyl Acetate
Concen: 0.326 ppbv
RT: 5.07 min Scan# 711
Delta R.T. -0.03 min
Lab File: VL034244.D
Acq: 8 Oct 2019 5:38

Tgt Ion: 43 Resp: 57806

Ion	Ratio	Lower	Upper
43	100		
86	4.9	5.1	7.7#
42	139.6	8.6	12.8#
44	6.1	4.7	7.1



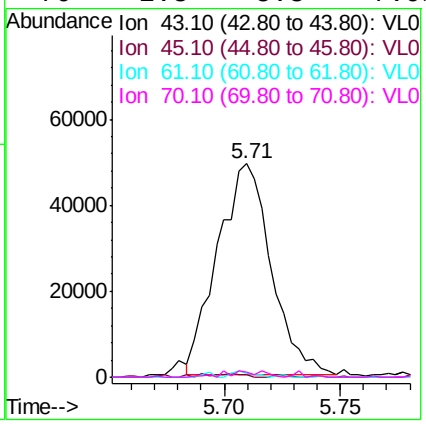


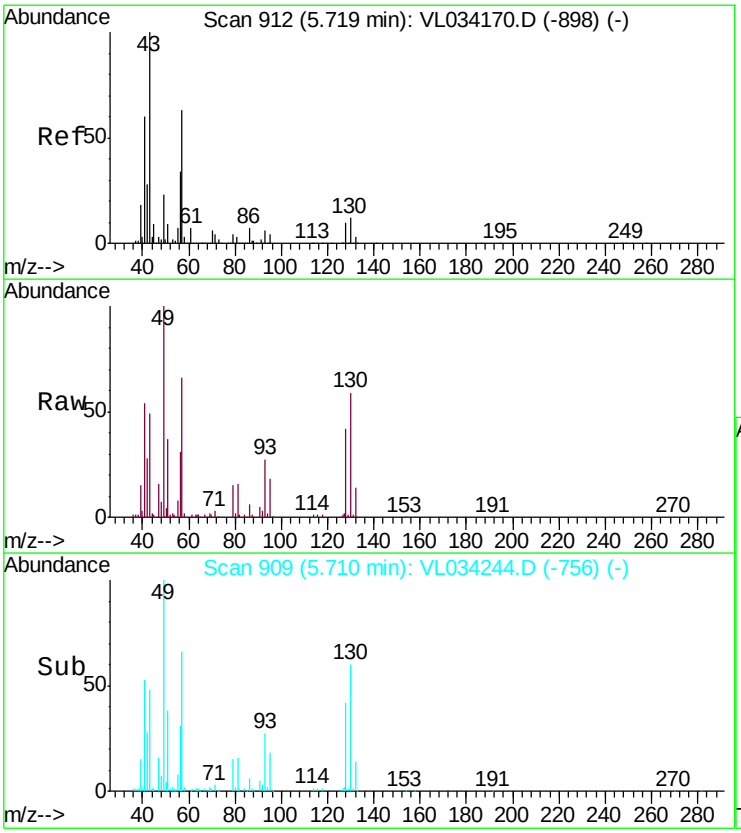
#25
Ethyl Acetate
Concen: 0.347 ppbv
RT: 5.71 min Scan# 909
Delta R.T. 0.00 min
Lab File: VL034244.D
Acq: 8 Oct 2019 5:38

Instrument : MSVOA_L
ClientSampleId : V-4DL

Tgt Ion: 43 Resp: 78862

Ion	Ratio	Lower	Upper
43	100		
45	2.3	8.4	12.6#
61	1.7	7.2	10.8#
70	2.8	5.3	7.9#

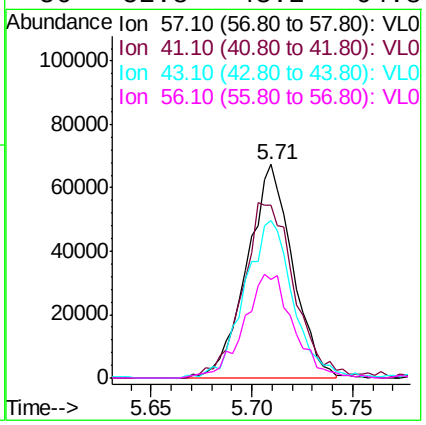


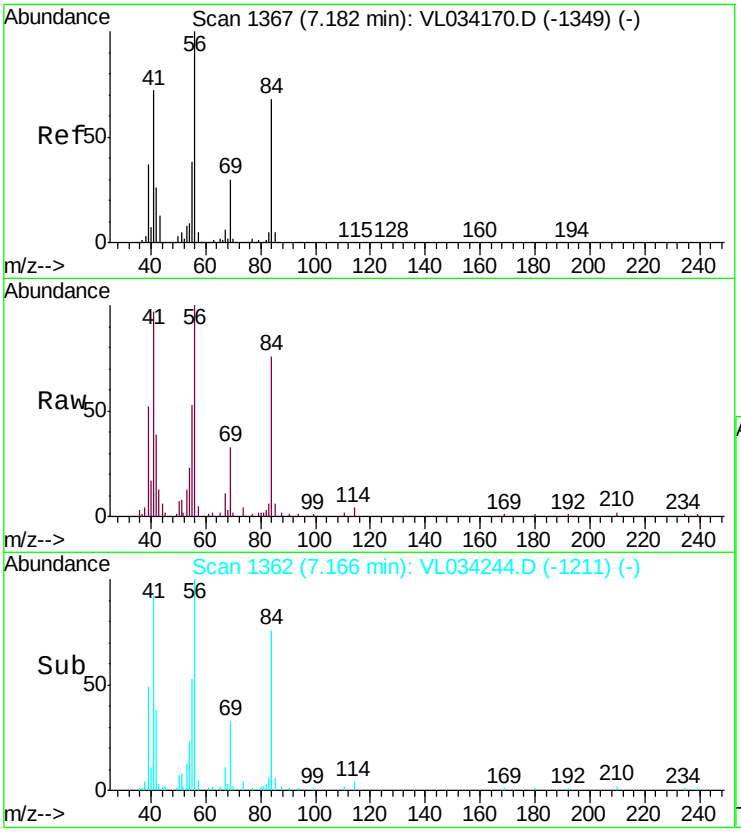


#26
Hexane
Concen: 1.122 ppbv
RT: 5.71 min Scan# 909
Delta R.T. -0.01 min
Lab File: VL034244.D
Acq: 8 Oct 2019 5:38

Tgt Ion: 57 Resp: 106120

Ion	Ratio	Lower	Upper
57	100		
41	94.2	78.5	117.7
43	79.1	189.5	284.3#
56	52.8	43.2	64.8



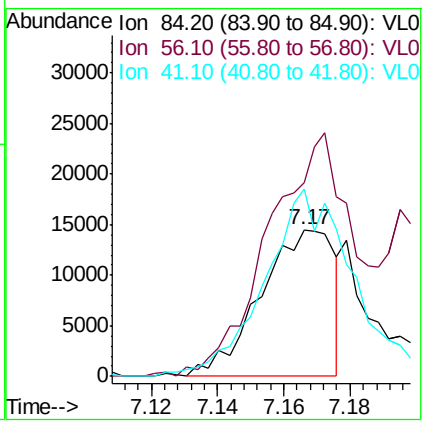


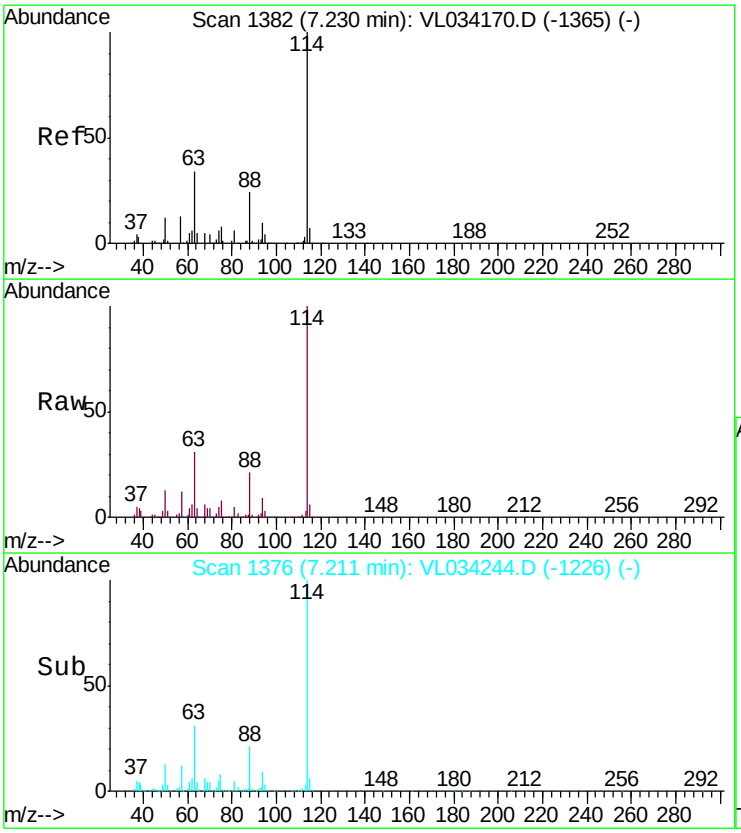
#30
Cyclohexane
Concen: 0.328 ppbv
RT: 7.17 min Scan# 1362
Delta R.T. -0.02 min
Lab File: VL034244.D
Acq: 8 Oct 2019 5:38

Instrument : MSVOA_L
ClientSampleId : V-4DL

Tgt Ion: 84 Resp: 22381

Ion	Ratio	Lower	Upper
84	100		
56	0.0	126.2	189.2#
41	155.0	85.8	128.8#

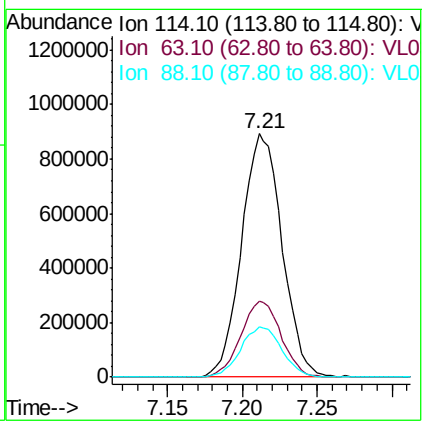


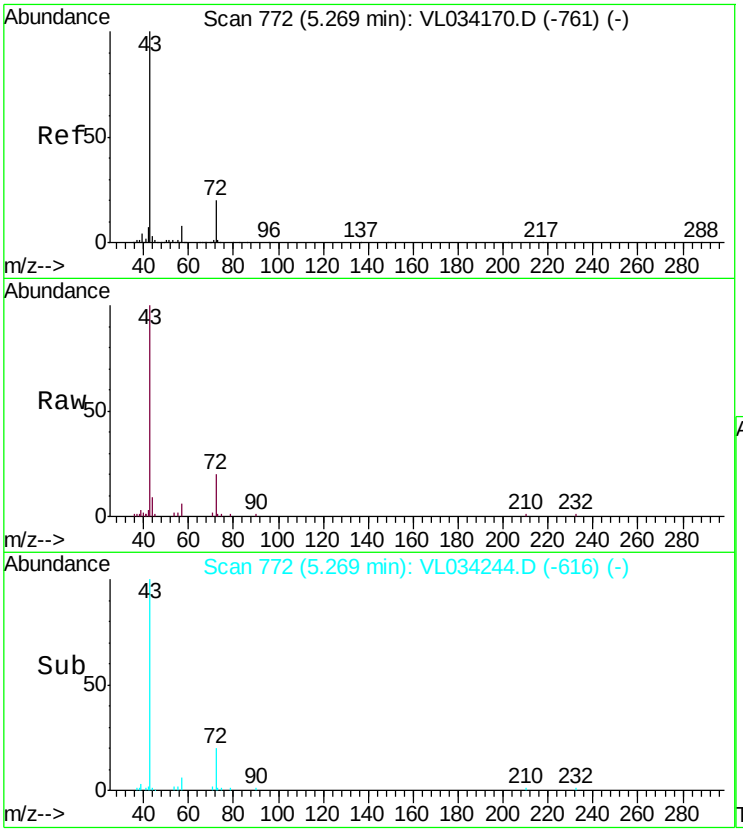


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.21 min Scan# 1376
Delta R.T. -0.02 min
Lab File: VL034244.D
Acq: 8 Oct 2019 5:38

Tgt Ion:114 Resp: 1682811

Ion	Ratio	Lower	Upper
114	100		
63	31.1	27.8	41.6
88	21.0	17.1	25.7



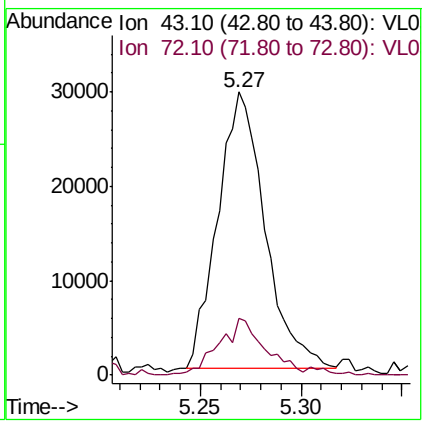


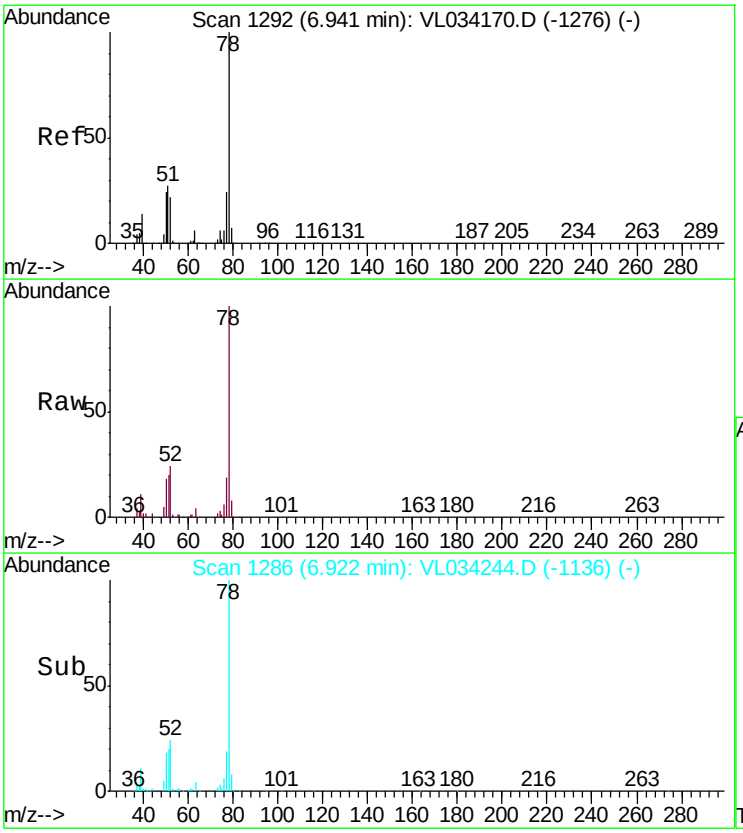
#34
2-Butanone
Concen: 0.278 ppbv
RT: 5.27 min Scan# 772
Delta R.T. 0.00 min
Lab File: VL034244.D
Acq: 8 Oct 2019 5:38

Instrument :
MSVOA_L
ClientSampleId :
V-4DL

Tgt Ion: 43 Resp: 47733

Ion	Ratio	Lower	Upper
43	100		
72	21.3	15.0	22.6

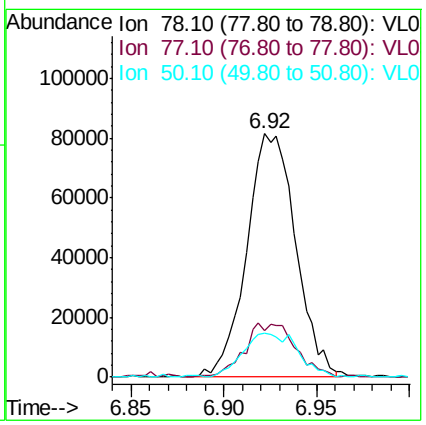


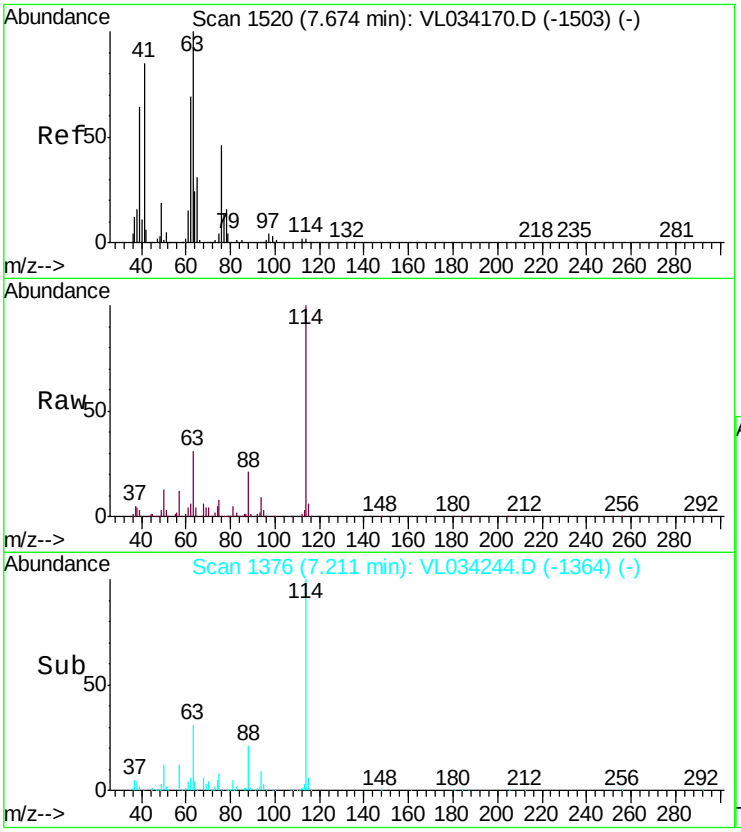


#36
Benzene
Concen: 0.803 ppbv
RT: 6.92 min Scan# 1286
Delta R.T. -0.02 min
Lab File: VL034244.D
Acq: 8 Oct 2019 5:38

Tgt Ion: 78 Resp: 149194

Ion	Ratio	Lower	Upper
78	100		
77	18.9	19.0	28.4#
50	17.7	18.9	28.3#



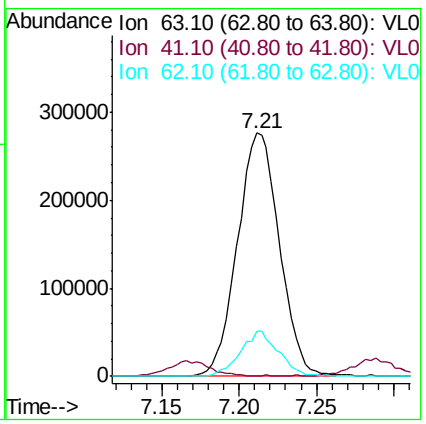


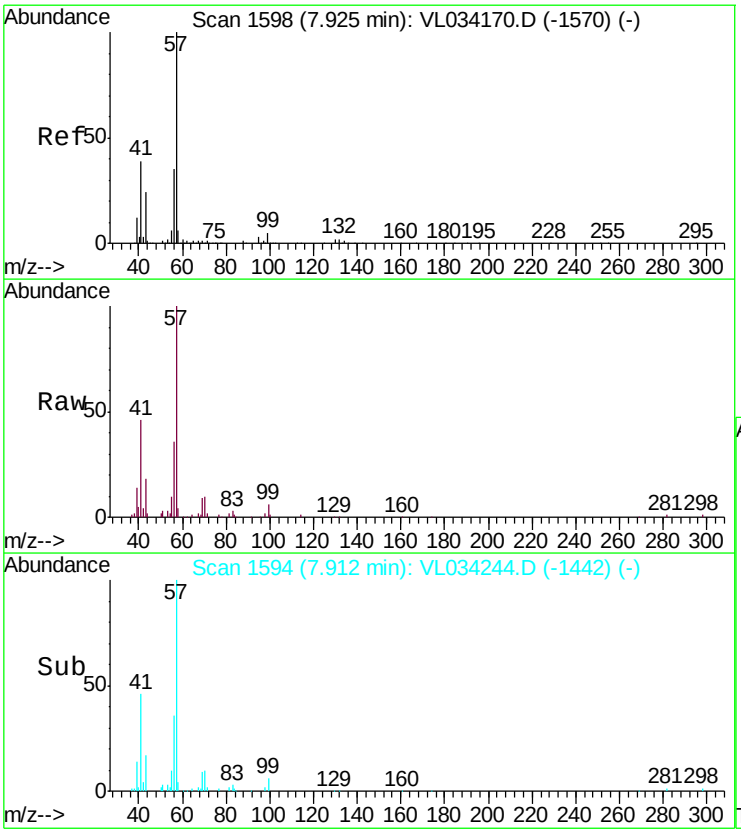
#39
1,2-Dichloropropane
Concen: 6.240 ppbv
RT: 7.21 min Scan# 1376
Delta R.T. -0.46 min
Lab File: VL034244.D
Acq: 8 Oct 2019 5:38

Instrument : MSVOA_L
ClientSampleId : V-4DL

Tgt Ion: 63 Resp: 521064

Ion	Ratio	Lower	Upper
63	100		
41	0.0	68.4	102.6#
62	18.5	55.4	83.2#

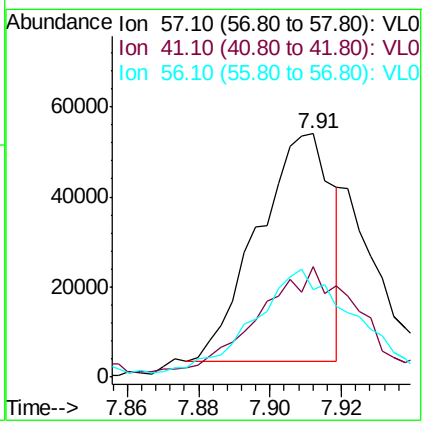


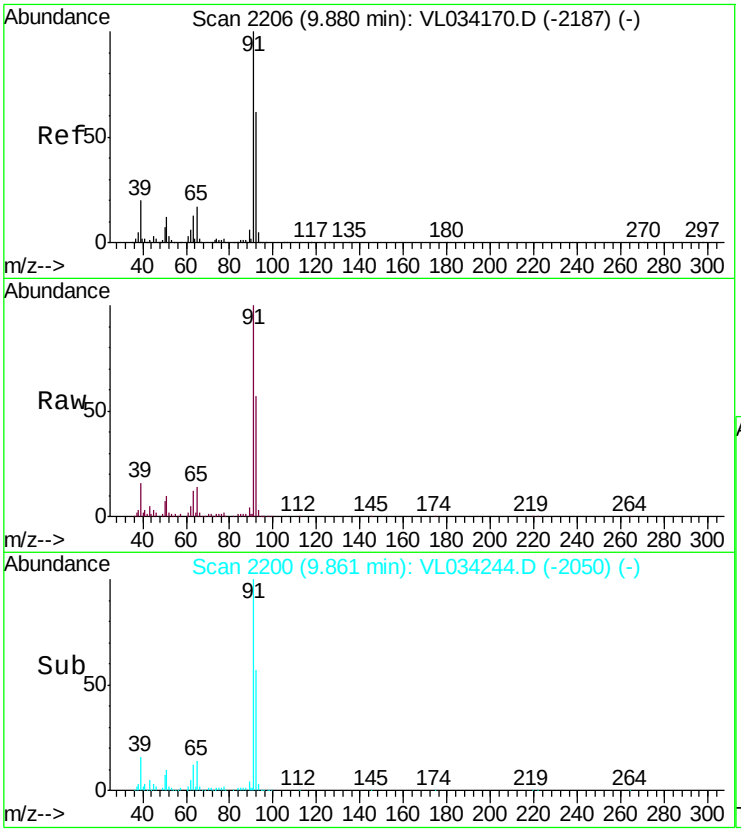


#44
2,2,4-Trimethylpentane
Concen: 0.204 ppbv
RT: 7.91 min Scan# 1594
Delta R.T. -0.01 min
Lab File: VL034244.D
Acq: 8 Oct 2019 5:38

Tgt Ion: 57 Resp: 72920

Ion	Ratio	Lower	Upper
57	100		
41	68.9	29.8	44.6#
56	68.3	25.9	38.9#



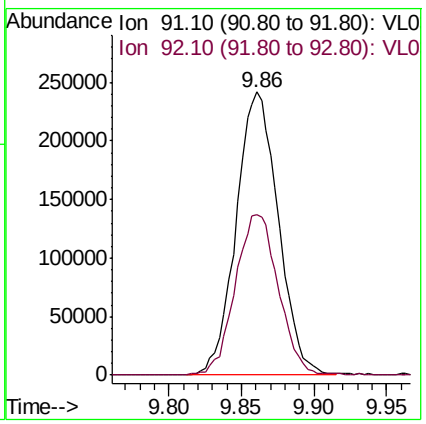


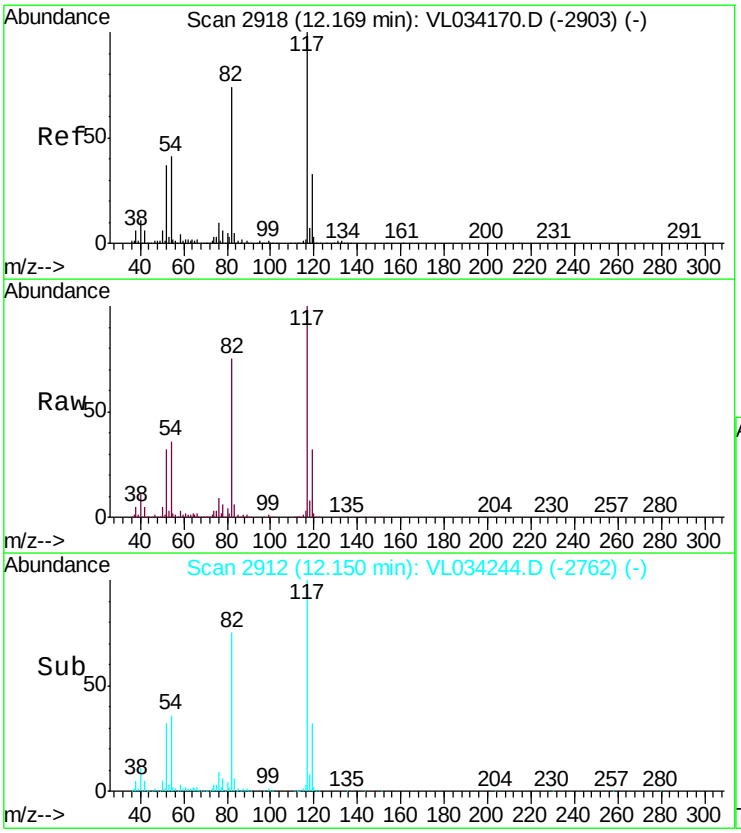
#53
Toluene
Concen: 2.402 ppbv
RT: 9.86 min Scan# 2200
Delta R.T. -0.02 min
Lab File: VL034244.D
Acq: 8 Oct 2019 5:38

Instrument : MSVOA_L
ClientSampleId : V-4DL

Tgt Ion: 91 Resp: 487923

Ion	Ratio	Lower	Upper
91	100		
92	58.3	49.0	73.6

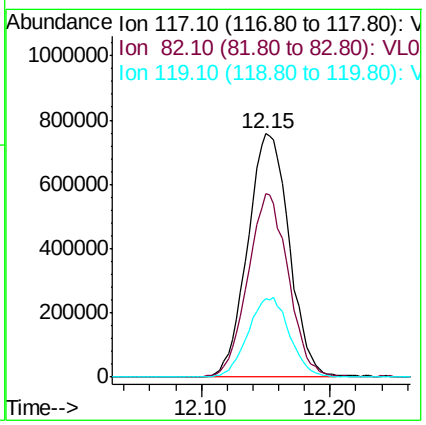


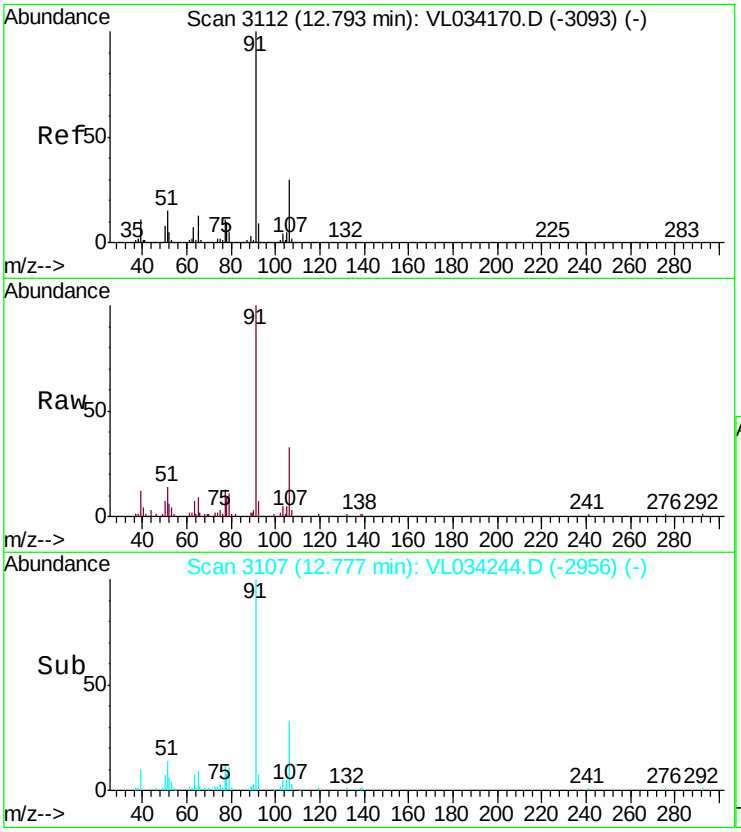


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.15 min Scan# 2912
Delta R.T. -0.02 min
Lab File: VL034244.D
Acq: 8 Oct 2019 5:38

Tgt Ion:117 Resp: 1699494

Ion	Ratio	Lower	Upper
117	100		
82	73.4	58.2	87.4
119	32.8	23.7	35.5



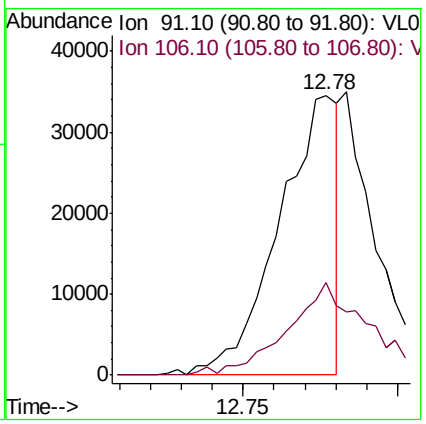


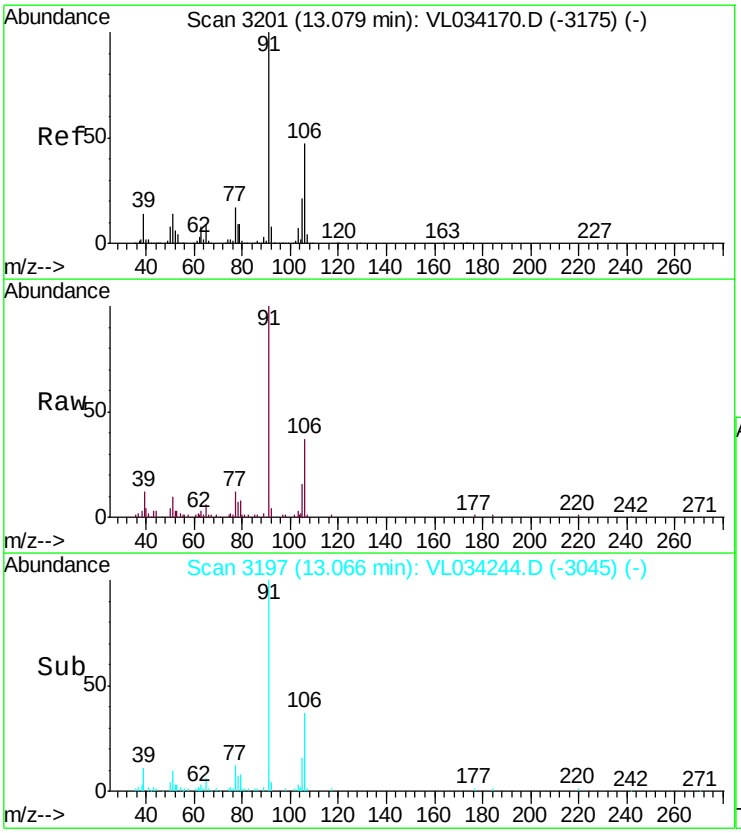
#58
Ethyl Benzene
Concen: 0.166 ppbv
RT: 12.78 min Scan# 3107
Delta R.T. -0.02 min
Lab File: VL034244.D
Acq: 8 Oct 2019 5:38

Instrument : MSVOA_L
ClientSampleId : V-4DL

Tgt Ion: 91 Resp: 45426

Ion	Ratio	Lower	Upper
91	100		
106	33.2	24.2	36.4

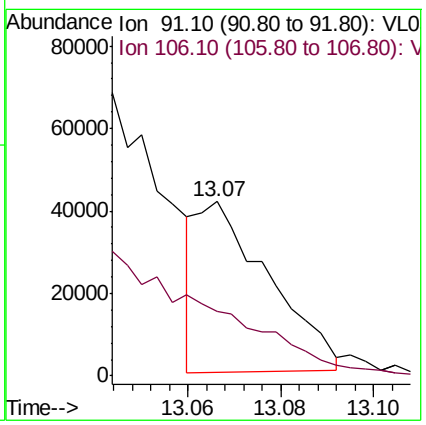


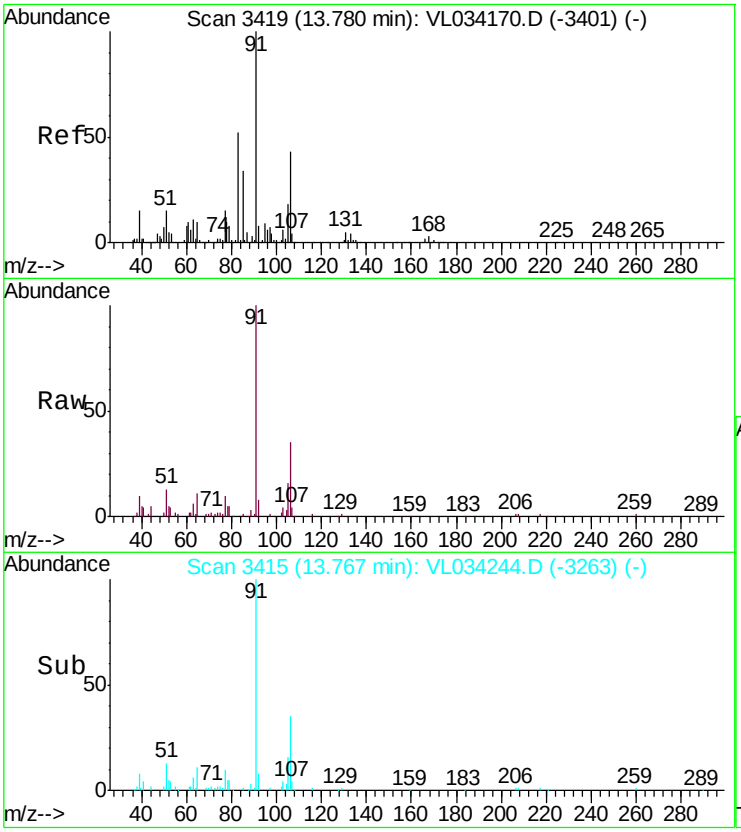


#59
m/p-Xylene
Concen: 0.194 ppbv
RT: 13.07 min Scan# 3197
Delta R.T. -0.01 min
Lab File: VL034244.D
Acq: 8 Oct 2019 5:38

Tgt Ion: 91 Resp: 44152

Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.5	53.3#



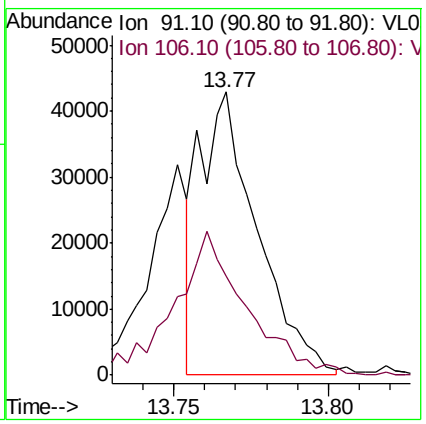


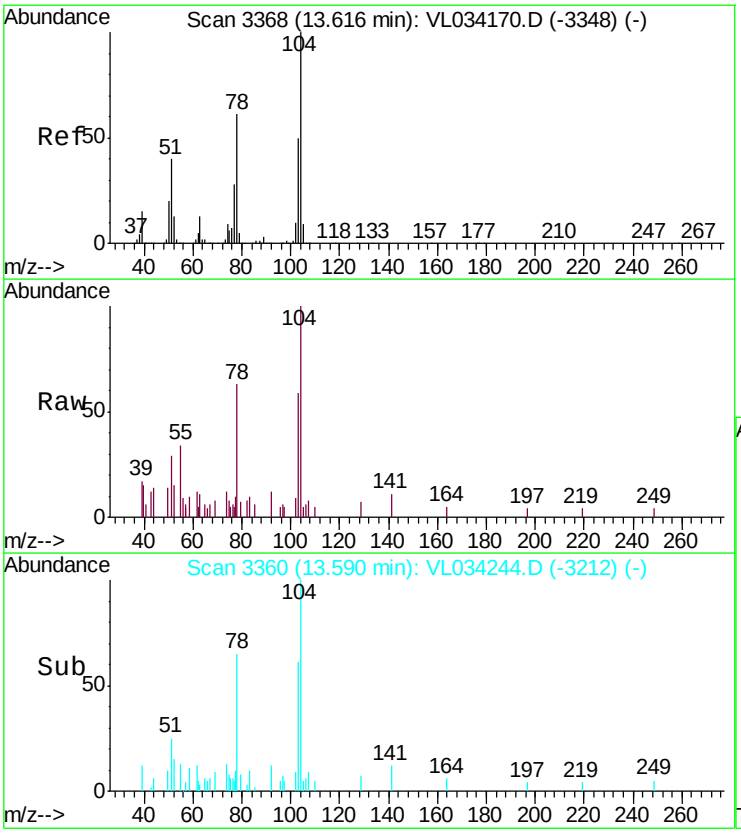
#60
o-Xylene
Concen: 0.242 ppbv
RT: 13.77 min Scan# 3415
Delta R.T. -0.01 min
Lab File: VL034244.D
Acq: 8 Oct 2019 5:38

Instrument : MSVOA_L
ClientSampleId : V-4DL

Tgt Ion: 91 Resp: 55056

Ion	Ratio	Lower	Upper
91	100		
106	64.5	21.2	63.6#

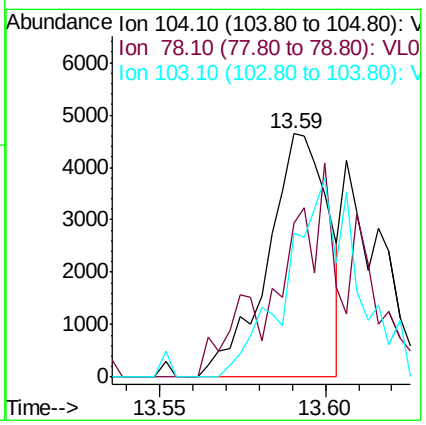


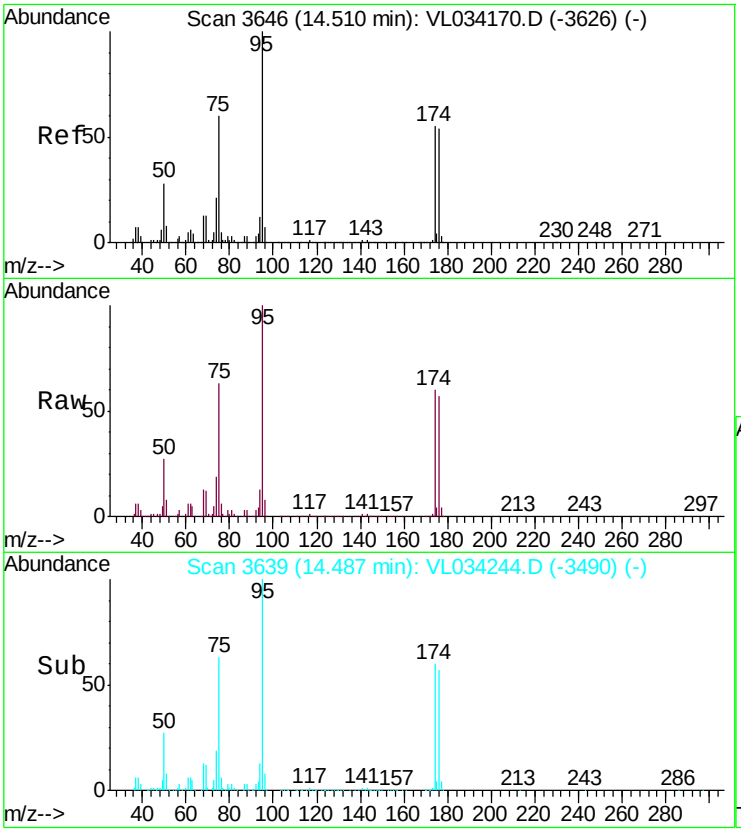


#61
Styrene
Concen: 0.036 ppbv
RT: 13.59 min Scan# 3360
Delta R.T. -0.03 min
Lab File: VL034244.D
Acq: 8 Oct 2019 5:38

Tgt Ion:104 Resp: 5918

Ion	Ratio	Lower	Upper
104	100		
78	0.0	49.7	74.5#
103	0.0	38.4	57.6#



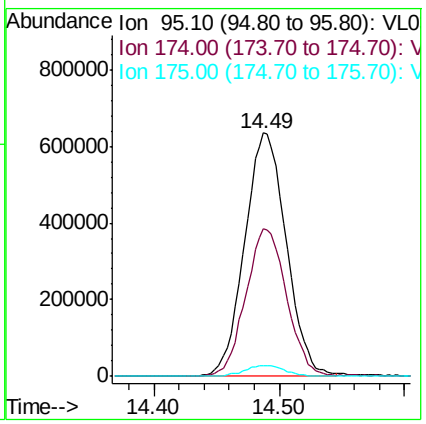


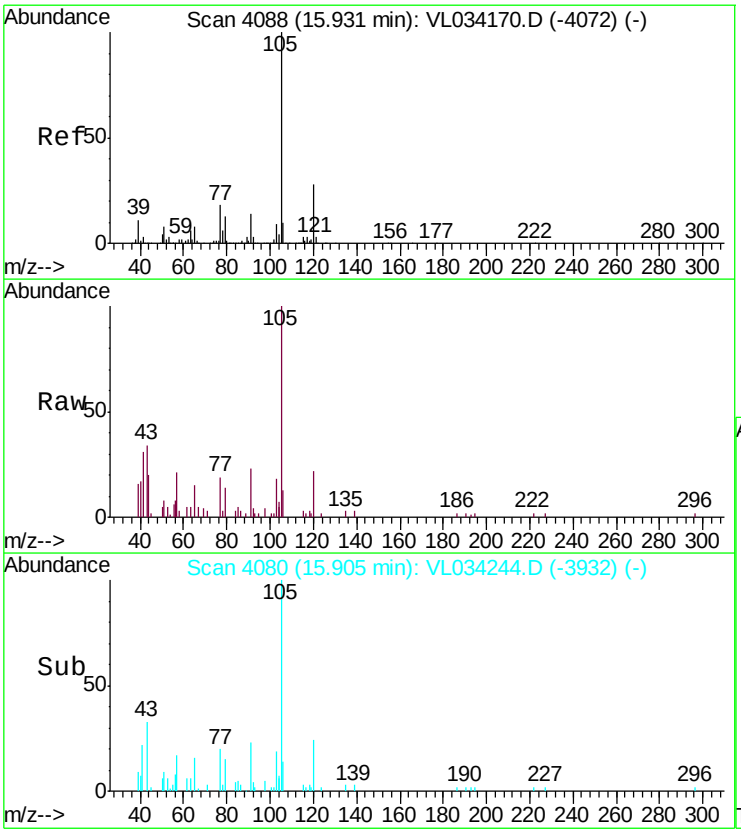
#68
1-Bromo-4-Fluorobenzene
Concen: 9.901 ppbv
RT: 14.49 min Scan# 3639
Delta R.T. -0.02 min
Lab File: VL034244.D
Acq: 8 Oct 2019 5:38

Instrument :
MSVOA_L
ClientSampleId :
V-4DL

Tgt Ion: 95 Resp: 1462157

Ion	Ratio	Lower	Upper
95	100		
174	59.9	45.1	67.7
175	4.4	3.3	4.9

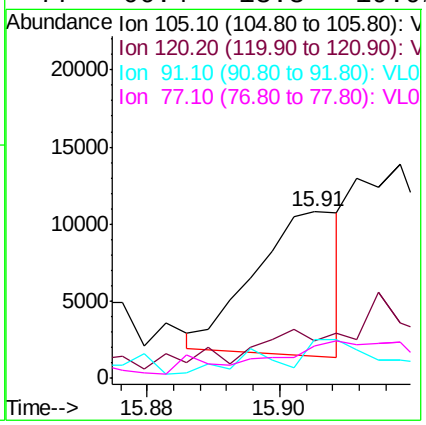


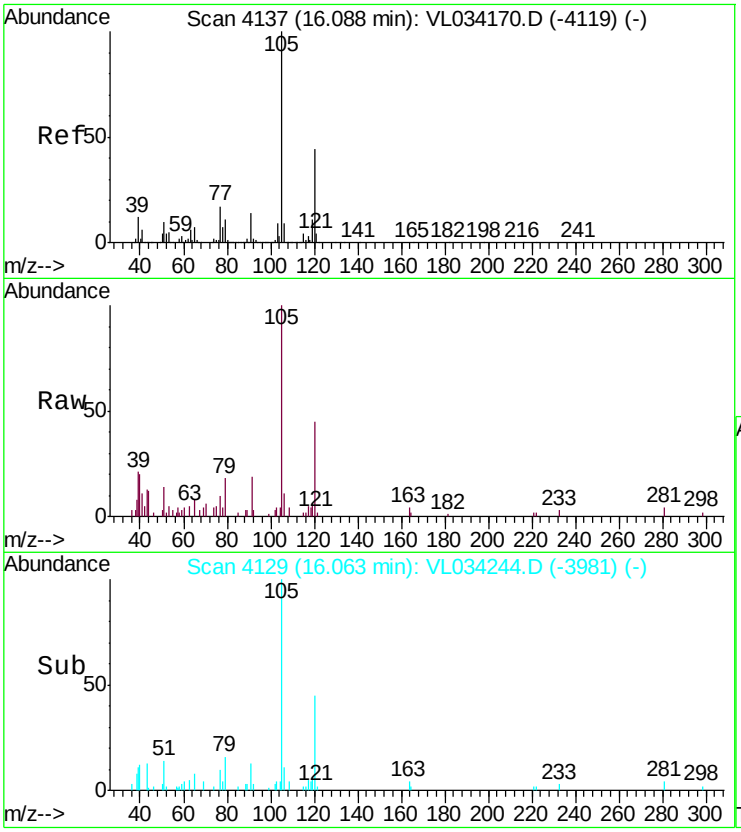


#72
4-Ethyltoluene
Concen: 0.033 ppbv
RT: 15.91 min Scan# 4080
Delta R.T. -0.03 min
Lab File: VL034244.D
Acq: 8 Oct 2019 5:38

Tgt Ion:105 Resp: 8388

Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.3	34.9#
91	53.2	11.4	17.2#
77	66.4	13.3	19.9#



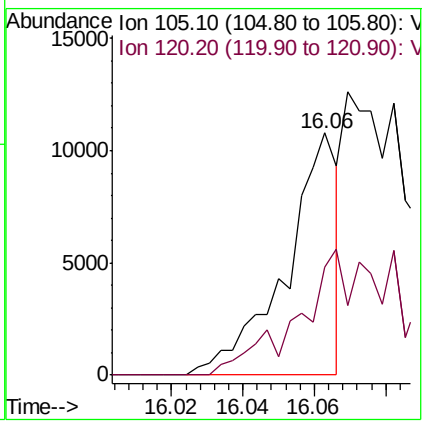


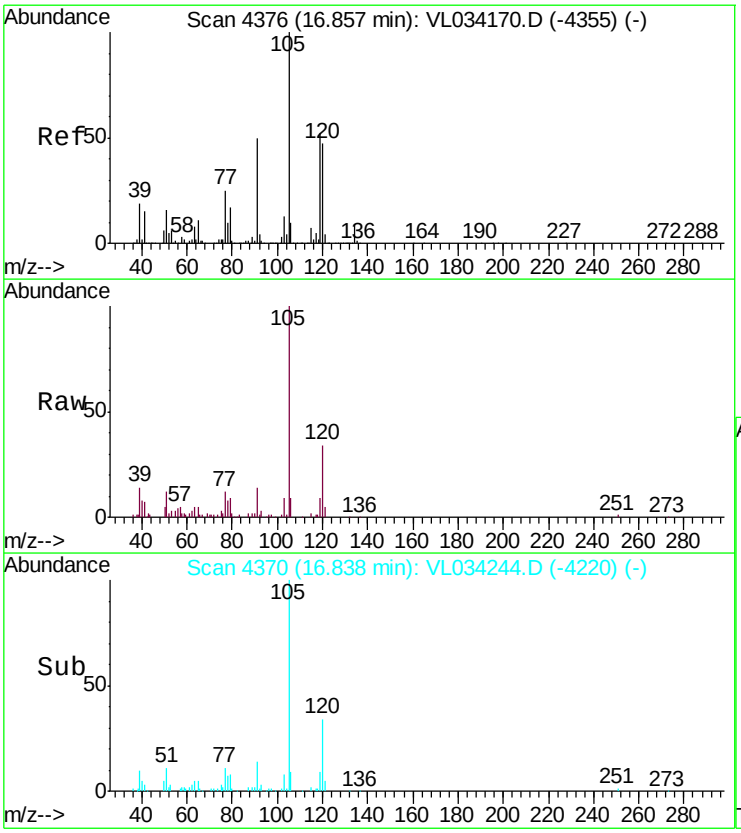
#73
1,3,5-Trimethylbenzene
Concen: 0.044 ppbv
RT: 16.06 min Scan# 4129
Delta R.T. -0.03 min
Lab File: VL034244.D
Acq: 8 Oct 2019 5:38

Instrument :
MSVOA_L
ClientSampleId :
V-4DL

Tgt Ion:105 Resp: 10849

Ion	Ratio	Lower	Upper
105	100		
120	44.8	35.6	53.4





#74
1,2,4-Trimethylbenzene
Concen: 0.355 ppbv
RT: 16.84 min Scan# 4370
Delta R.T. -0.02 min
Lab File: VL034244.D
Acq: 8 Oct 2019 5:38

Tgt Ion:105 Resp: 93515

Ion	Ratio	Lower	Upper
105	100		
120	34.0	37.5	56.3#
91	13.6	41.1	61.7#
77	12.3	19.9	29.9#