Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101419\
Data File : VL034288.D
Acq On : 14 Oct 2019 19:18
Operator : SY/AP
Sample : K5353-04
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : IA-3

Quant Time: Oct 15 02:50:05 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	1001299	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.21	114	1681036	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.15	117	1664253	10.00	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.49	95	1479028	10.23	ppbv	-0.02
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.30%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.03	85	93318	0.631	ppbv	88
3) Chlorodifluoromethane	2.97	51	142437	1.213	ppbv #	83
4) Chloromethane	3.12	50	26221	0.380	ppbv #	88
9) Propene	3.19	41	94469	1.631	ppbv	95
11) Trichlorofluoromethane	3.95	101	42546	0.316	ppbv	94
13) Ethanol	3.60	45	1530384	109.109	ppbv	97
15) Acetone	3.84	43	703484	5.242	ppbv	98
16) 1,3-Butadiene	3.29	39	11439	0.195	ppbv #	31
17) tert-Butyl alcohol	4.31	59	11663	0.137	ppbv #	71
19) Isopropyl Alcohol	3.98	45	211414	2.562	ppbv #	95
20) Methylene Chloride	4.35	84	33979	0.878	ppbv	95
21) Allyl Chloride	4.30	41	54867	0.724	ppbv	93
23) Vinyl Acetate	5.08	43	17112	0.087	ppbv #	59
25) Ethyl Acetate	5.71	43	135716	0.535	ppbv #	90
26) Hexane	5.71	57	110729	1.049	ppbv #	57
34) 2-Butanone	5.27	43	79385	0.462	ppbv	99
35) Carbon Tetrachloride	7.05	117	4721	0.034	ppbv #	49
36) Benzene	6.92	78	33577	0.181	ppbv	94
39) 1,2-Dichloropropane	7.21	63	551246	6.608	ppbv #	20
53) Toluene	9.86	91	141169	0.696	ppbv	94
58) Ethyl Benzene	13.03	91	23906	0.089	ppbv	97
59) m/p-Xylene	13.06	91	14064	0.063	ppbv #	32
60) o-Xylene	13.76	91	28523	0.128	ppbv	95
61) Styrene	13.60	104	5072	0.032	ppbv #	33
72) 4-Ethyltoluene	15.92	105	22045	0.088	ppbv #	89
73) 1,3,5-Trimethylbenzene	16.07	105	10384	0.043	ppbv	94
74) 1,2,4-Trimethylbenzene	16.84	105	71921	0.279	ppbv #	66
79) Naphthalene	22.30	128	24596	0.108	ppbv	98
80) Naphthalene,2-methyl-	25.05	142	6268	0.059	ppbv #	56

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

Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101419\
Data File : VL034288.D
Acq On : 14 Oct 2019 19:18
Operator : SY/AP
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Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : IA-3

Quant Time: Oct 15 02:50:05 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
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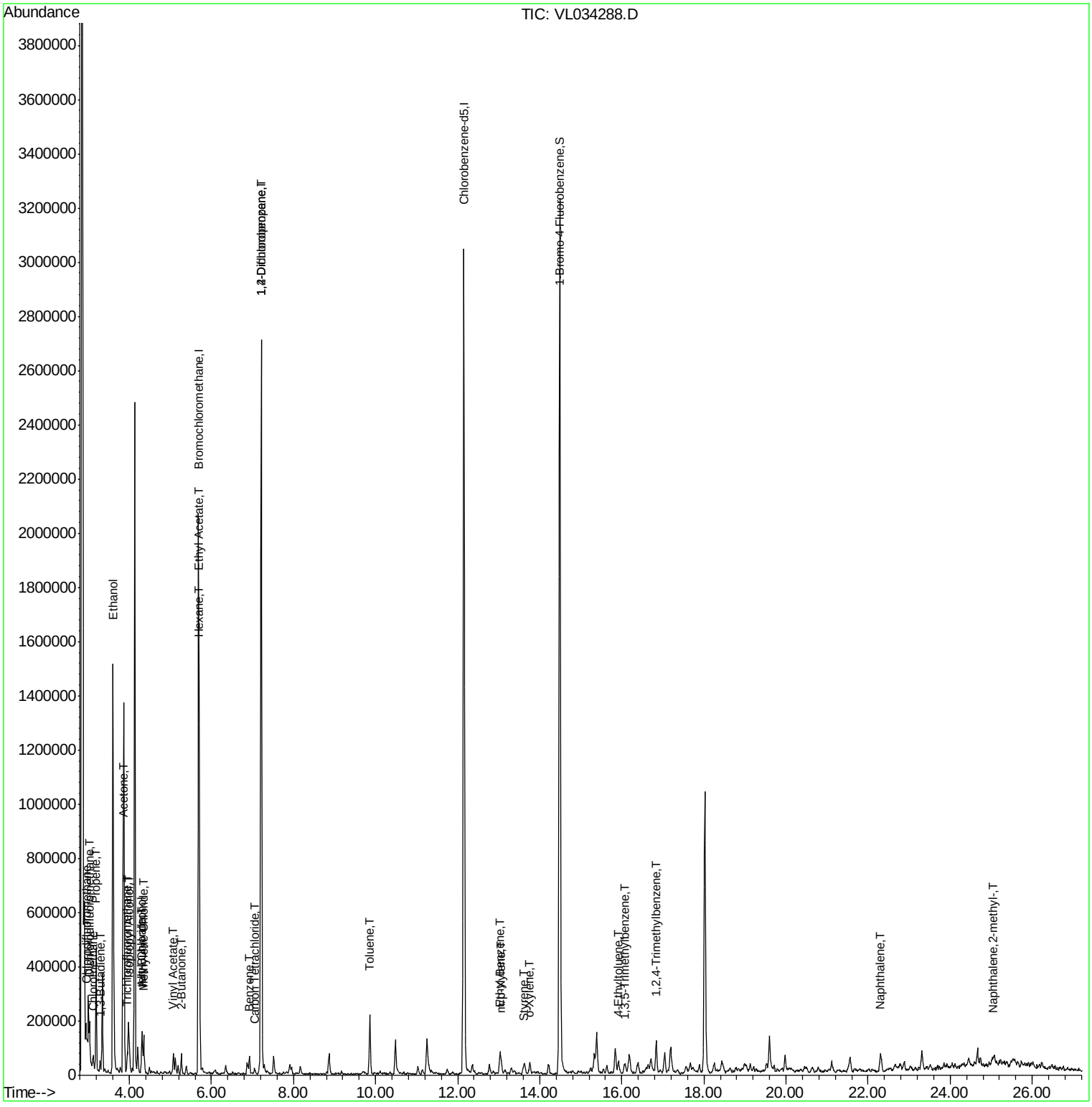
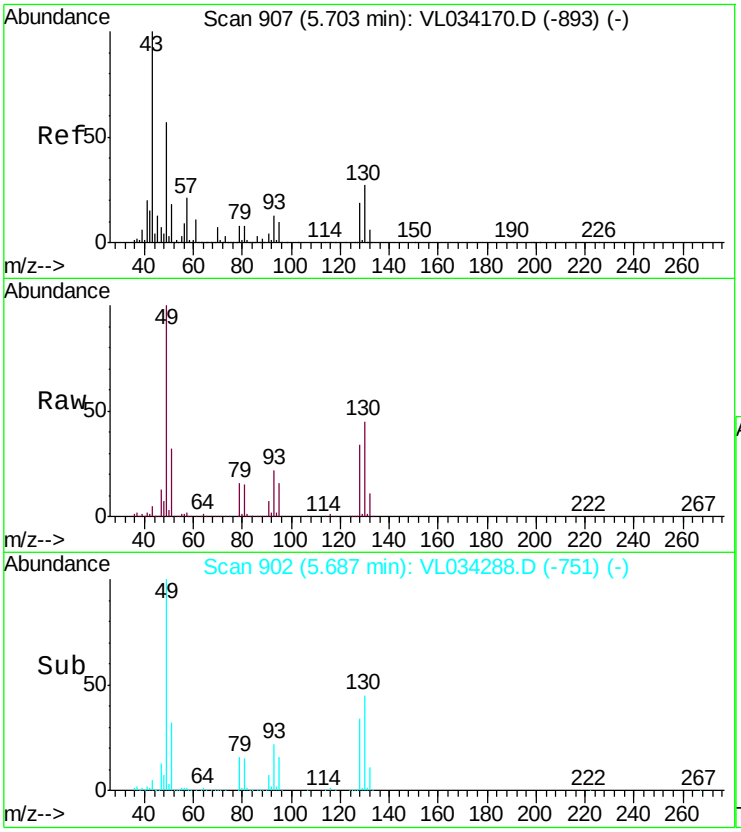


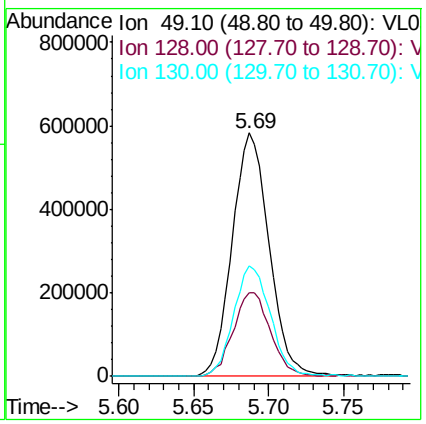


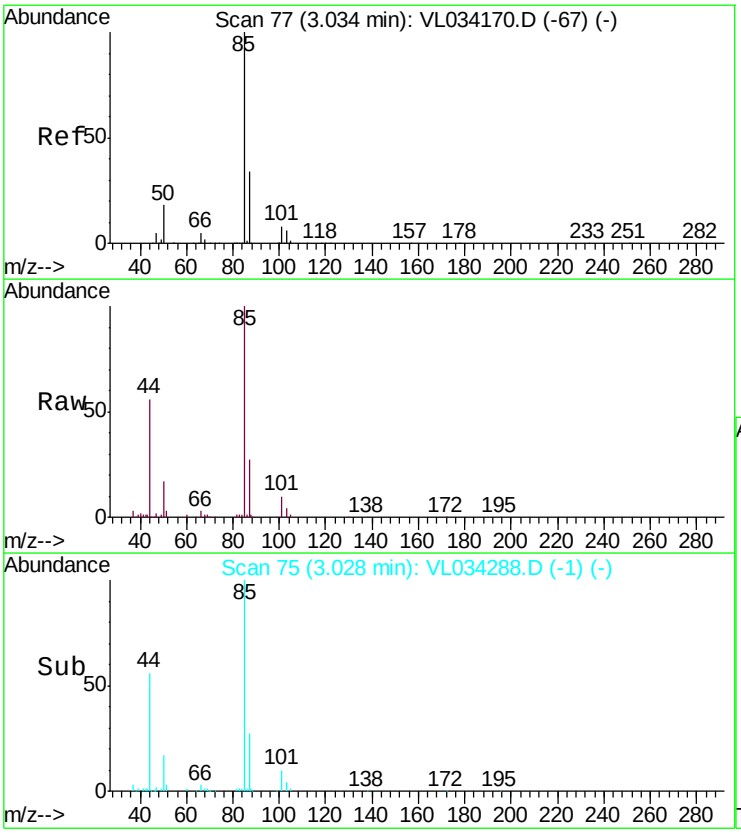
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.02 min
Lab File: VL034288.D
Acq: 14 Oct 2019 19:18

Instrument : MSVOA_L
ClientSampleId : IA-3

Tgt Ion: 49 Resp: 1001299

Ion	Ratio	Lower	Upper
49	100		
128	35.3	17.6	52.9
130	45.6	22.3	66.9

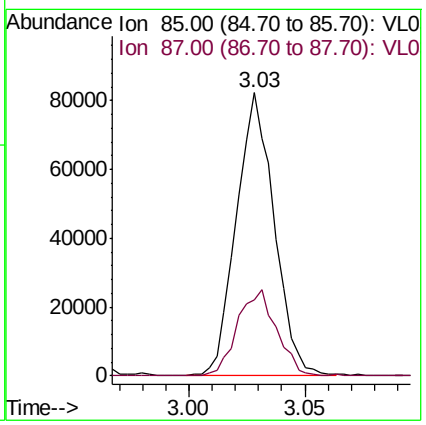


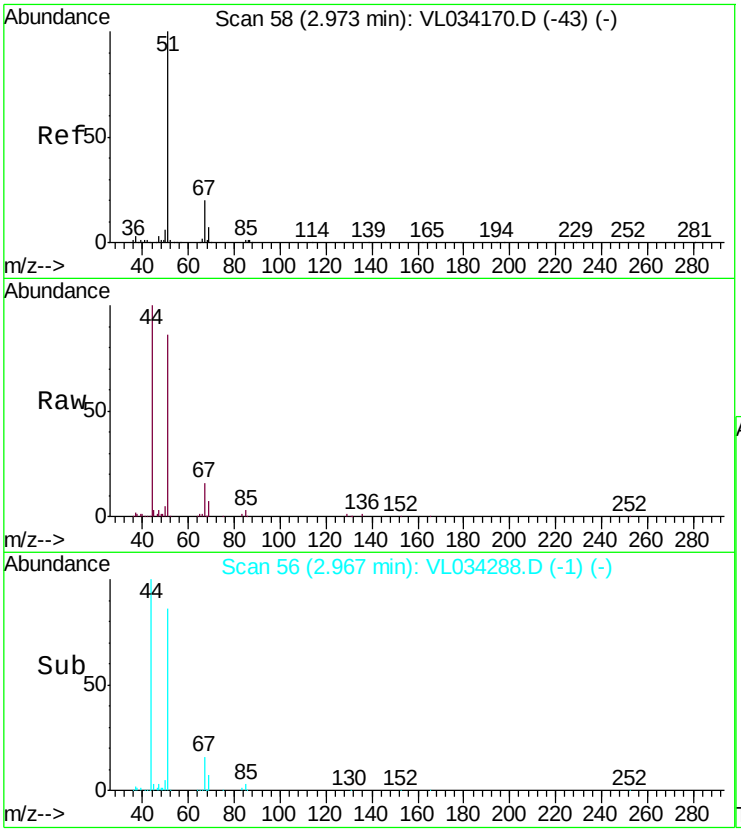


#2
Dichlorodifluoromethane
Concen: 0.631 ppbv
RT: 3.03 min Scan# 75
Delta R.T. -0.01 min
Lab File: VL034288.D
Acq: 14 Oct 2019 19:18

Tgt Ion: 85 Resp: 93318

Ion	Ratio	Lower	Upper
85	100		
87	27.4	27.2	40.8



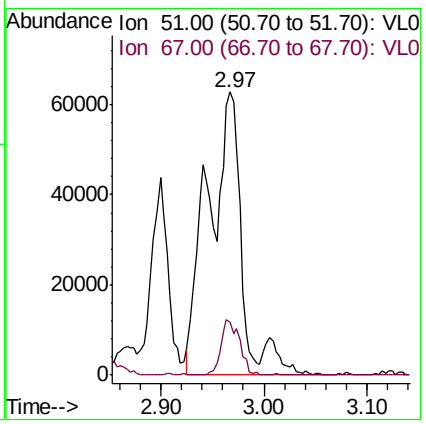


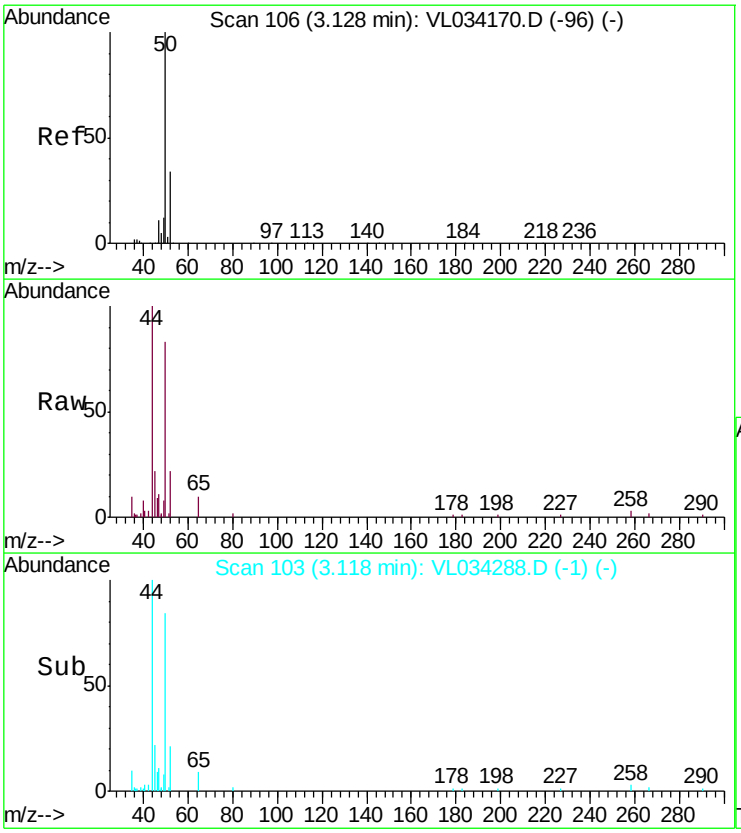
#3
Chlorodifluoromethane
Concen: 1.213 ppbv
RT: 2.97 min Scan# 56
Delta R.T. -0.01 min
Lab File: VL034288.D
Acq: 14 Oct 2019 19:18

Instrument :
MSVOA_L
ClientSampleId :
IA-3

Tgt Ion: 51 Resp: 142437

Ion	Ratio	Lower	Upper
51	100		
67	10.8	14.8	22.2#

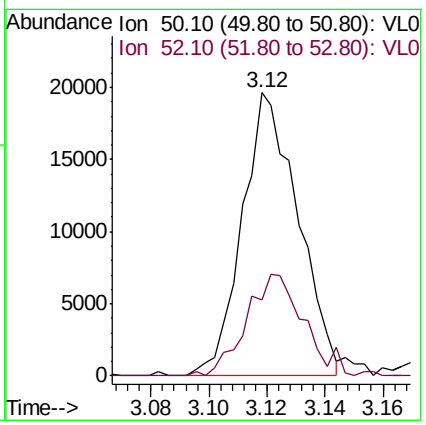


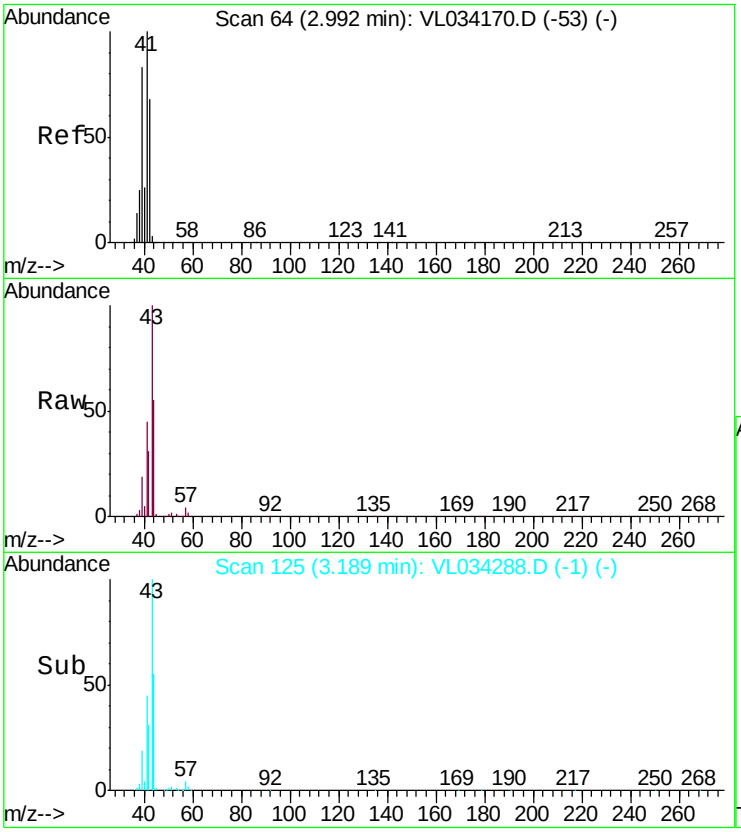


#4
Chloromethane
Concen: 0.380 ppbv
RT: 3.12 min Scan# 103
Delta R.T. -0.01 min
Lab File: VL034288.D
Acq: 14 Oct 2019 19:18

Tgt Ion: 50 Resp: 26221

Ion	Ratio	Lower	Upper
50	100		
52	27.0	27.1	40.7#



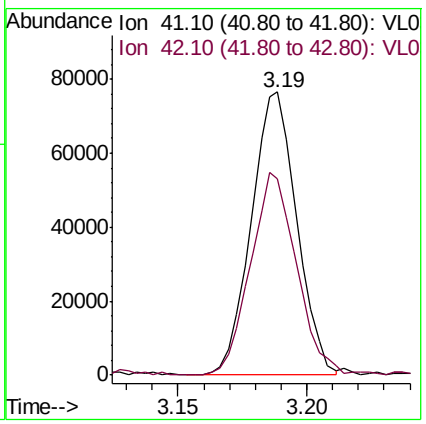


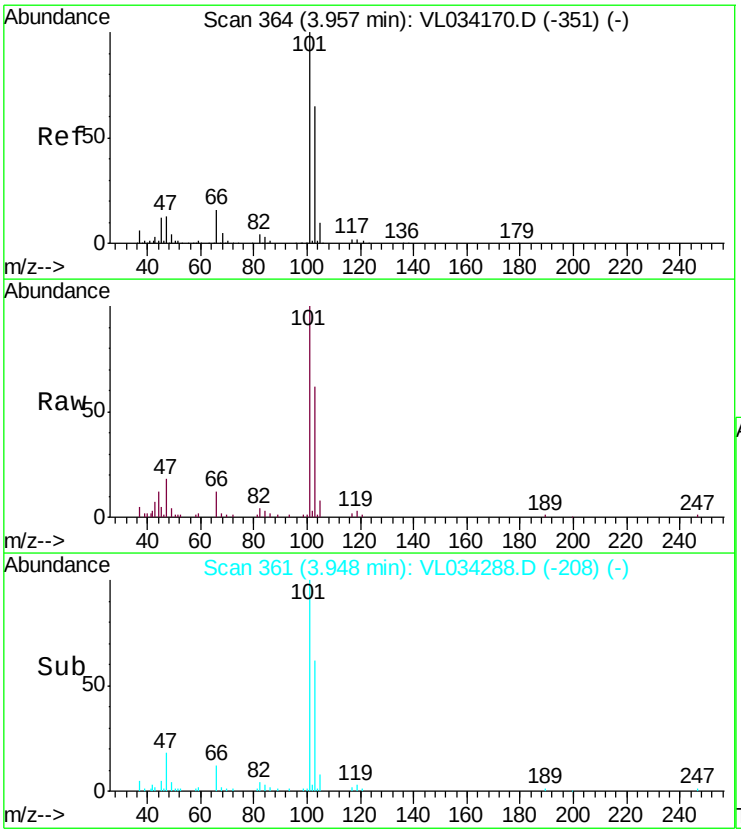
#9
Propene
Concen: 1.631 ppbv
RT: 3.19 min Scan# 125
Delta R.T. 0.20 min
Lab File: VL034288.D
Acq: 14 Oct 2019 19:18

Instrument :
MSVOA_L
ClientSampleId :
IA-3

Tgt Ion: 41 Resp: 94469

Ion	Ratio	Lower	Upper
41	100		
42	73.5	55.8	83.6

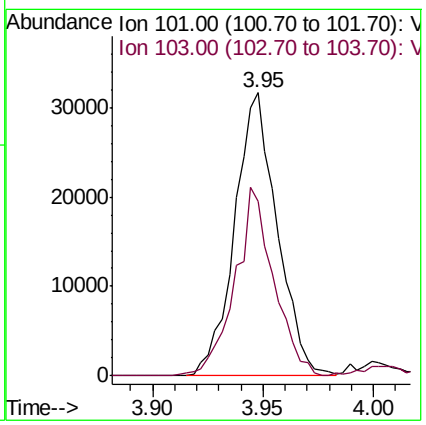


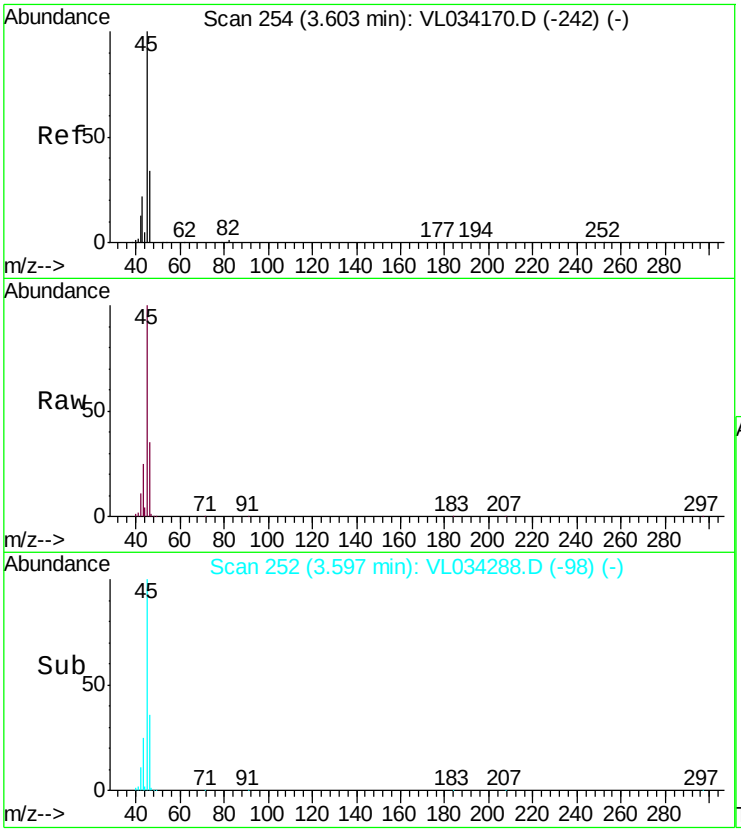


#11
Trichlorofluoromethane
Concen: 0.316 ppbv
RT: 3.95 min Scan# 361
Delta R.T. -0.01 min
Lab File: VL034288.D
Acq: 14 Oct 2019 19:18

Tgt Ion:101 Resp: 42546

Ion	Ratio	Lower	Upper
101	100		
103	60.5	52.1	78.1



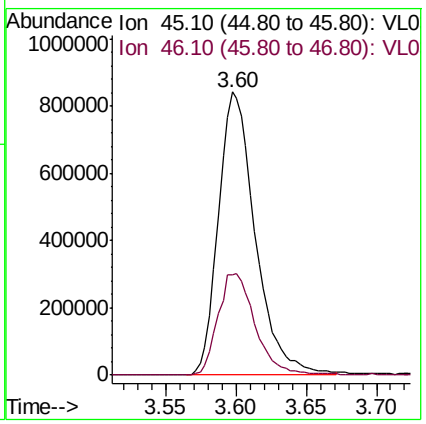


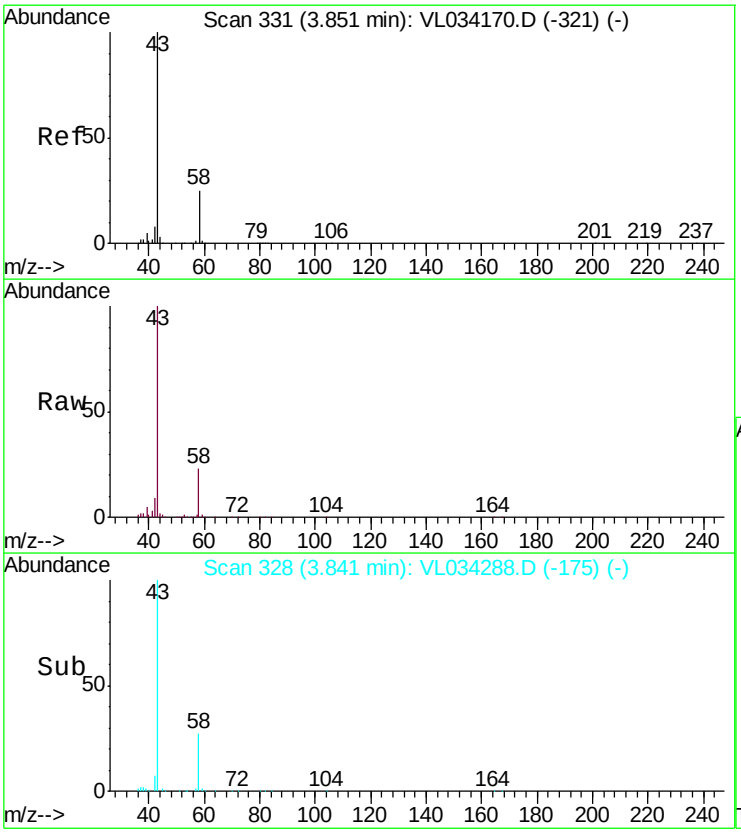
#13
Ethanol
Concen: 109.109 ppbv
RT: 3.60 min Scan# 252
Delta R.T. -0.01 min
Lab File: VL034288.D
Acq: 14 Oct 2019 19:18

Instrument : MSVOA_L
ClientSampleId : IA-3

Tgt Ion: 45 Resp: 1530384

Ion	Ratio	Lower	Upper
45	100		
46	36.8	15.5	61.9

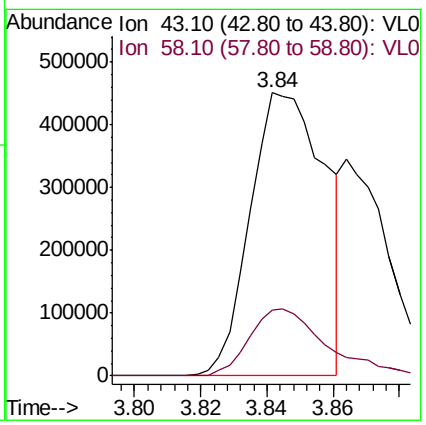


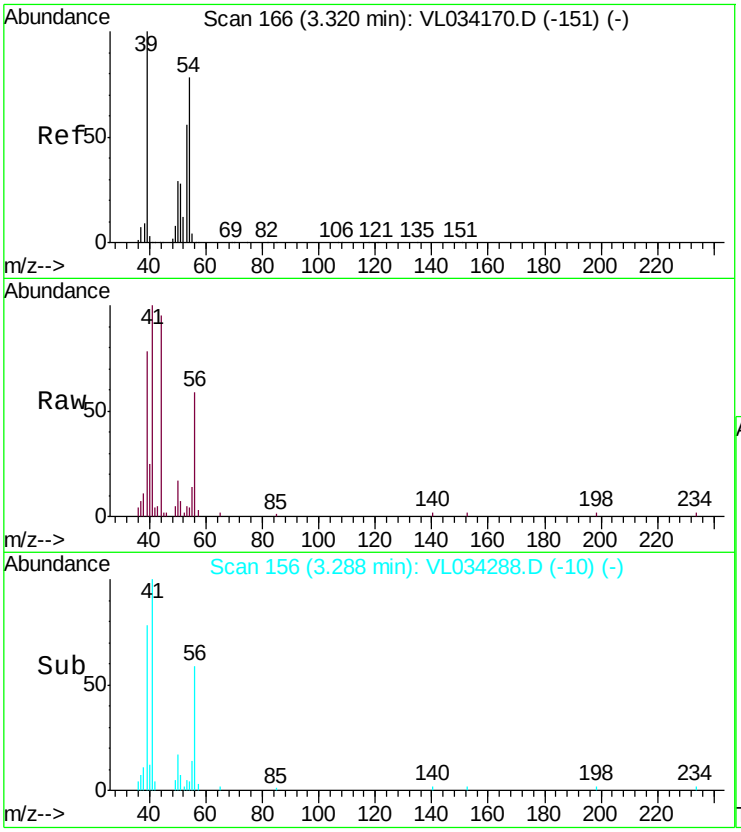


#15
Acetone
Concen: 5.242 ppbv
RT: 3.84 min Scan# 328
Delta R.T. -0.01 min
Lab File: VL034288.D
Acq: 14 Oct 2019 19:18

Tgt Ion: 43 Resp: 703484

Ion	Ratio	Lower	Upper
43	100		
58	24.8	20.5	30.7



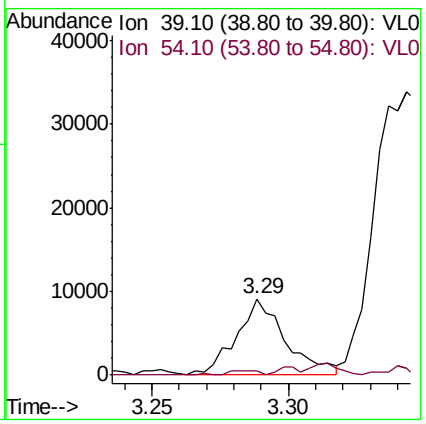


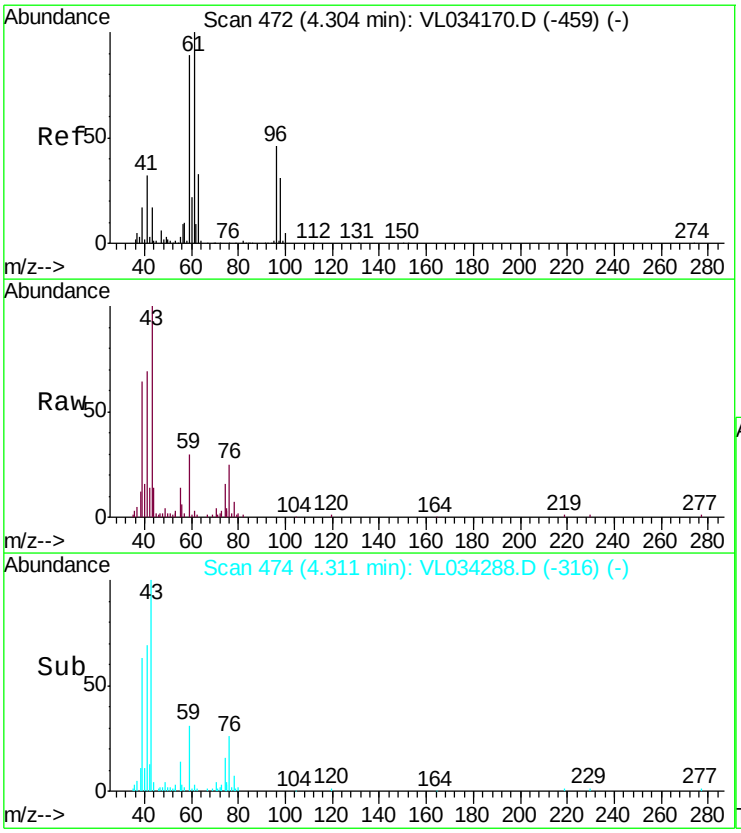
#16
1,3-Butadiene
Concen: 0.195 ppbv
RT: 3.29 min Scan# 156
Delta R.T. -0.03 min
Lab File: VL034288.D
Acq: 14 Oct 2019 19:18

Instrument : MSVOA_L
ClientSampleId : IA-3

Tgt Ion: 39 Resp: 11439

Ion	Ratio	Lower	Upper
39	100		
54	18.5	63.4	95.0#

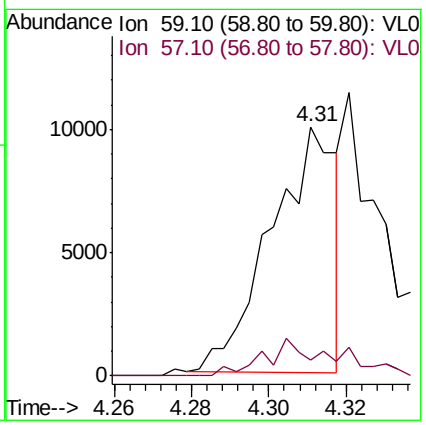


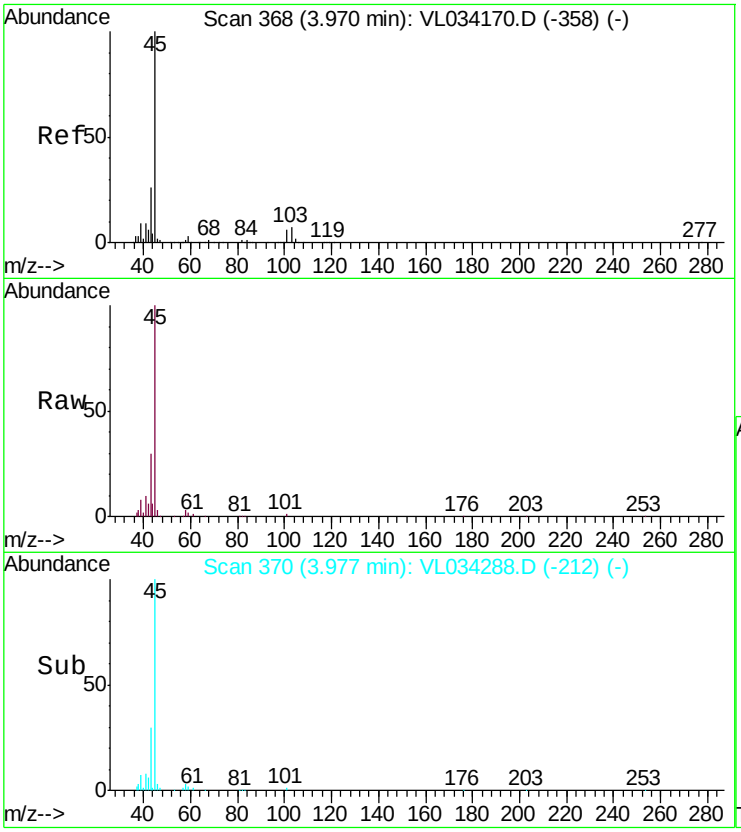


#17
tert-Butyl alcohol
Concen: 0.137 ppbv
RT: 4.31 min Scan# 474
Delta R.T. 0.01 min
Lab File: VL034288.D
Acq: 14 Oct 2019 19:18

Tgt Ion: 59 Resp: 11663

Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.7	13.1#



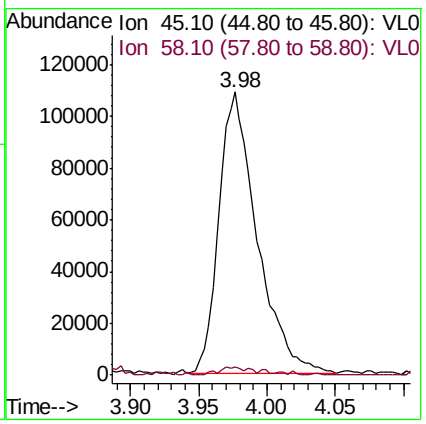


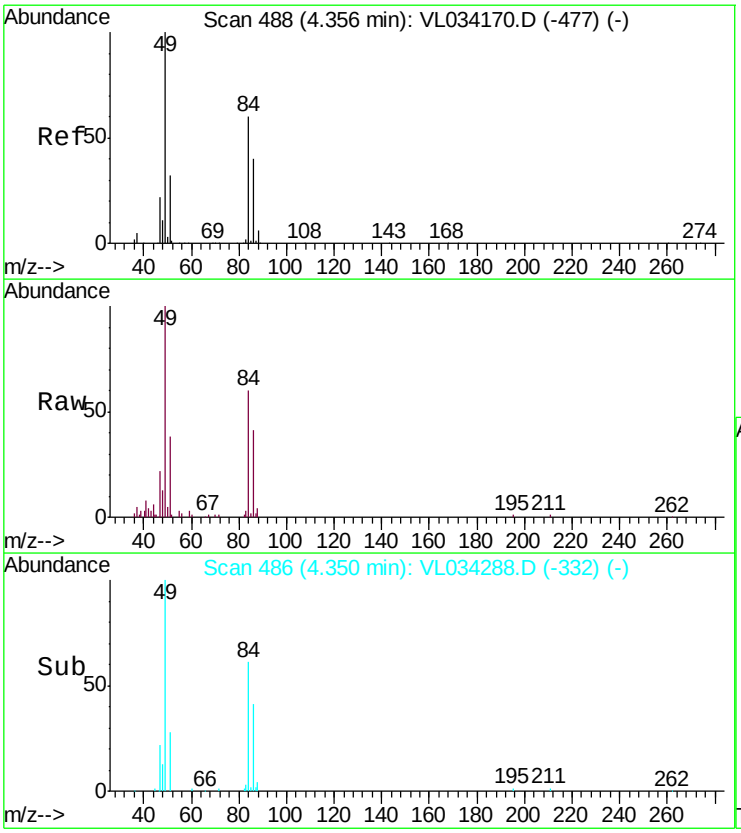
#19
Isopropyl Alcohol
Concen: 2.562 ppbv
RT: 3.98 min Scan# 370
Delta R.T. 0.01 min
Lab File: VL034288.D
Acq: 14 Oct 2019 19:18

Instrument :
MSVOA_L
ClientSampleId :
IA-3

Tgt Ion: 45 Resp: 211414

Ion	Ratio	Lower	Upper
45	100		
58	3.5	1.4	2.0#

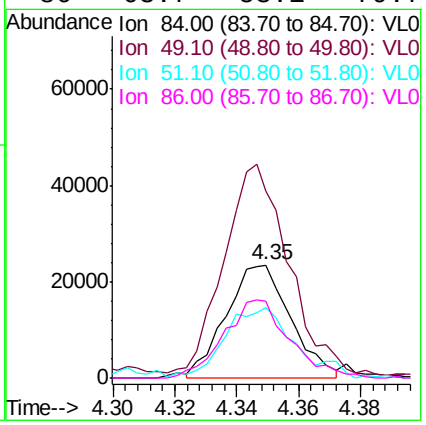


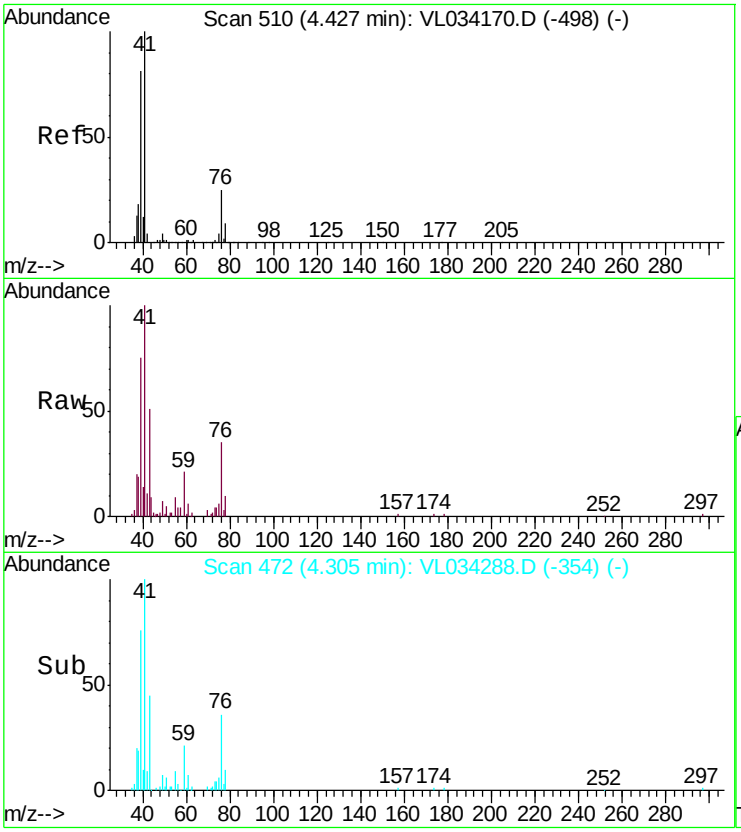


#20
Methylene Chloride
Concen: 0.878 ppbv
RT: 4.35 min Scan# 486
Delta R.T. -0.01 min
Lab File: VL034288.D
Acq: 14 Oct 2019 19:18

Tgt Ion: 84 Resp: 33979

Ion	Ratio	Lower	Upper
84	100		
49	161.6	133.8	200.8
51	61.4	43.6	65.4
86	63.7	53.1	79.7



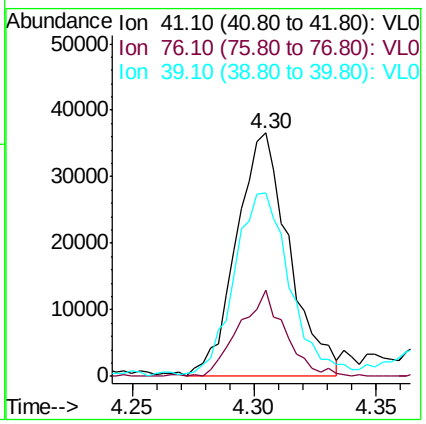


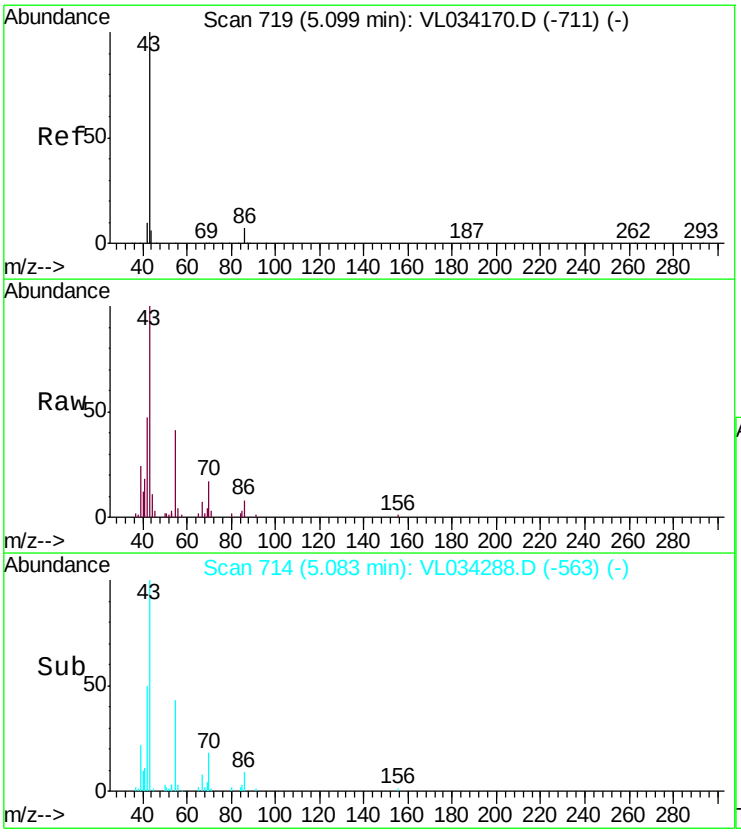
#21
Allyl Chloride
Concen: 0.724 ppbv
RT: 4.30 min Scan# 472
Delta R.T. -0.12 min
Lab File: VL034288.D
Acq: 14 Oct 2019 19:18

Instrument : MSVOA_L
ClientSampleId : IA-3

Tgt Ion: 41 Resp: 54867

Ion	Ratio	Lower	Upper
41	100		
76	31.1	21.8	32.6
39	75.1	64.8	97.2

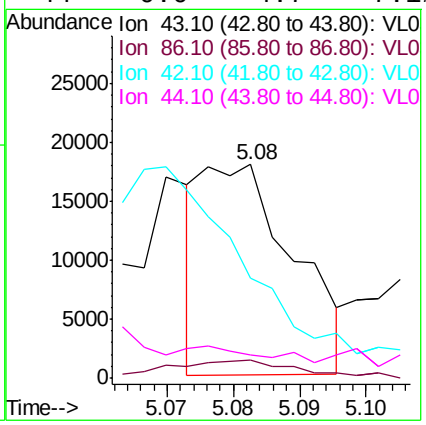


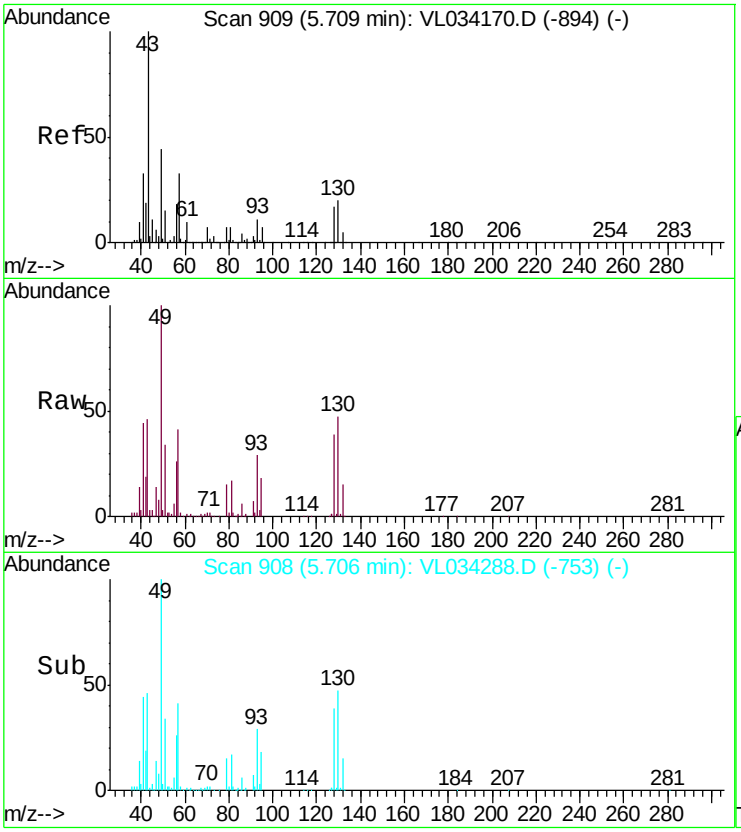


#23
Vinyl Acetate
Concen: 0.087 ppbv
RT: 5.08 min Scan# 714
Delta R.T. -0.02 min
Lab File: VL034288.D
Acq: 14 Oct 2019 19:18

Tgt Ion: 43 Resp: 17112

Ion	Ratio	Lower	Upper
43	100		
86	9.0	5.1	7.7#
42	38.8	8.6	12.8#
44	0.0	4.7	7.1#



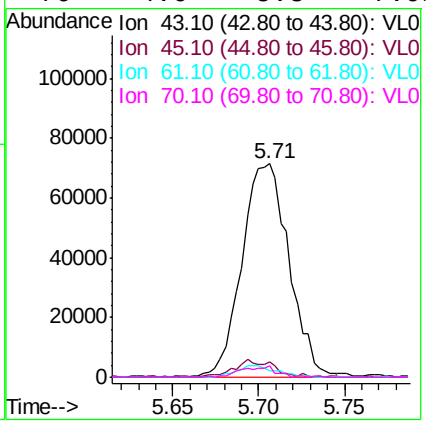


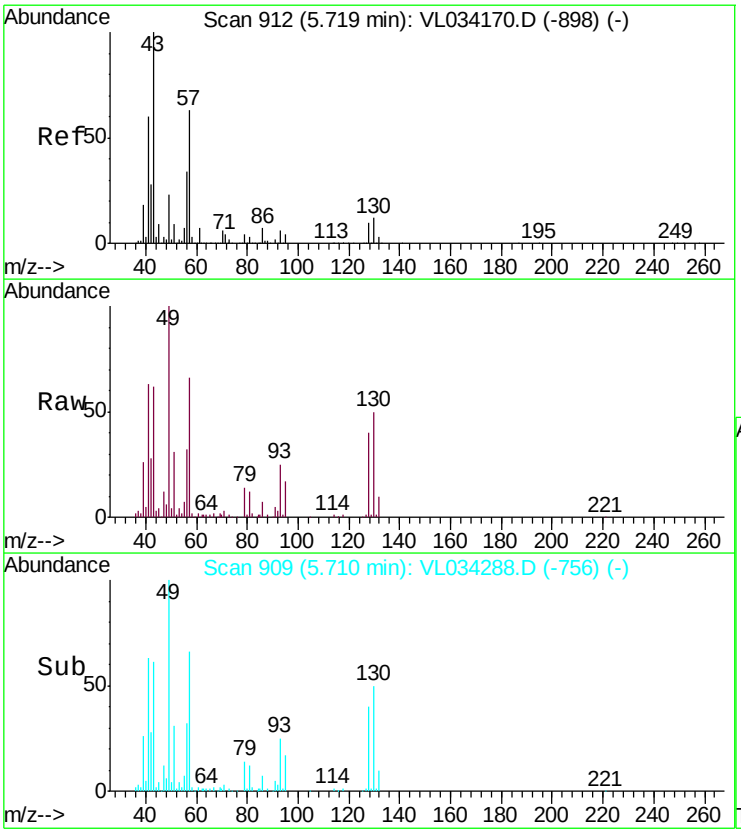
#25
Ethyl Acetate
Concen: 0.535 ppbv
RT: 5.71 min Scan# 908
Delta R.T. -0.00 min
Lab File: VL034288.D
Acq: 14 Oct 2019 19:18

Instrument : MSVOA_L
ClientSampleId : IA-3

Tgt Ion: 43 Resp: 135716

Ion	Ratio	Lower	Upper
43	100		
45	7.2	8.4	12.6#
61	4.5	7.2	10.8#
70	4.0	5.3	7.9#

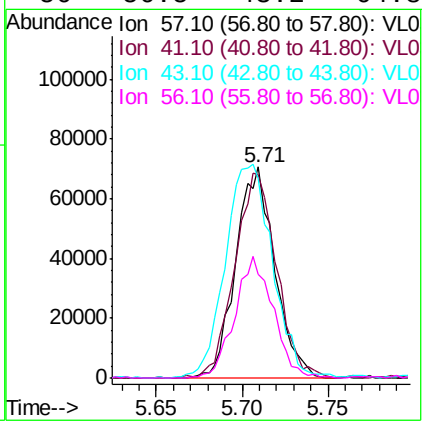


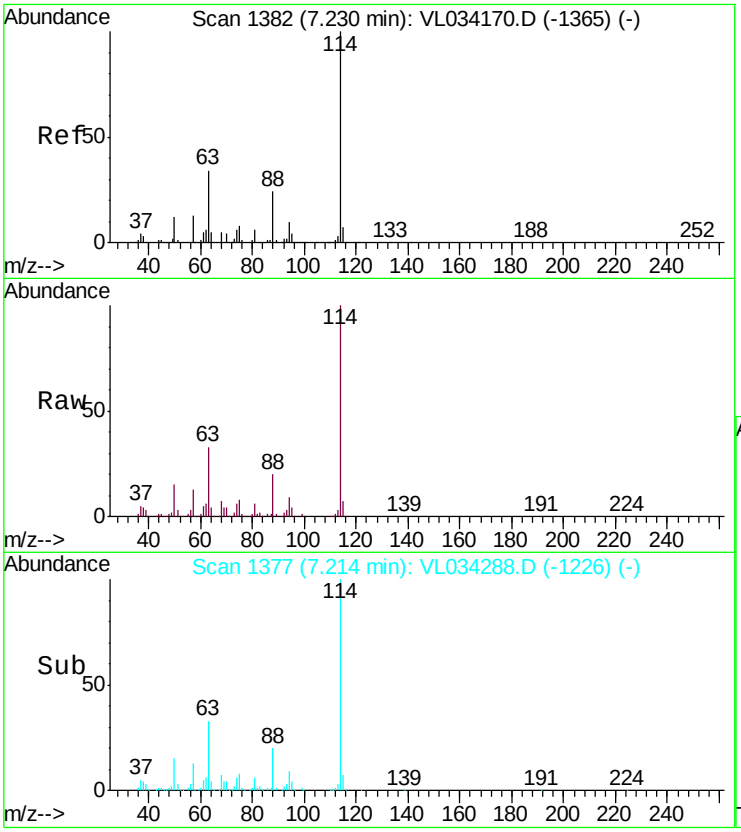


#26
Hexane
Concen: 1.049 ppbv
RT: 5.71 min Scan# 909
Delta R.T. -0.01 min
Lab File: VL034288.D
Acq: 14 Oct 2019 19:18

Tgt Ion: 57 Resp: 110729

Ion	Ratio	Lower	Upper
57	100		
41	104.5	78.5	117.7
43	124.0	189.5	284.3#
56	56.5	43.2	64.8



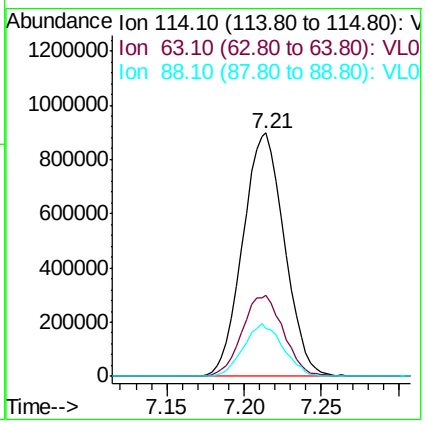


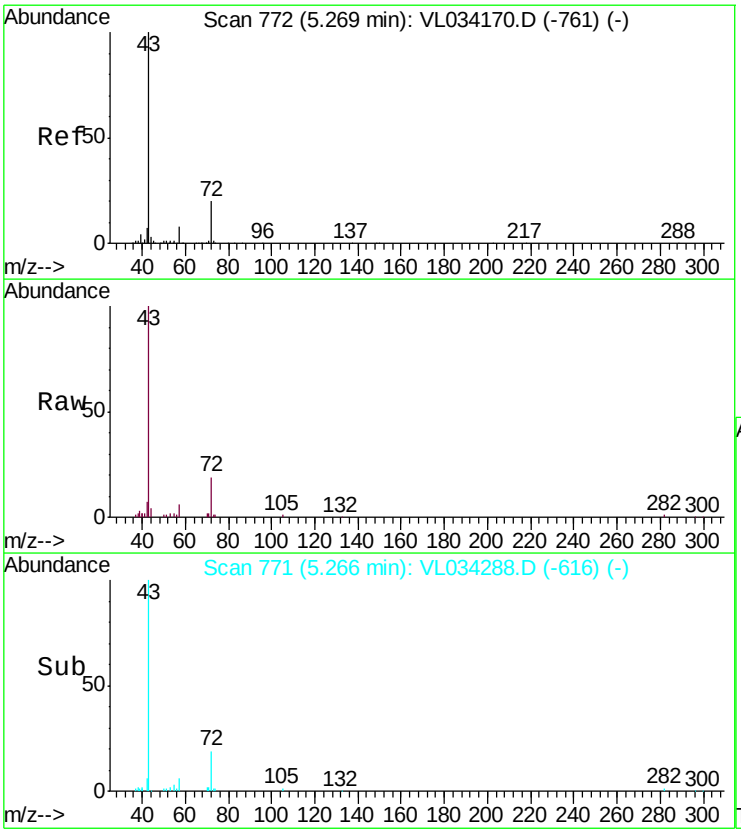
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.21 min Scan# 1377
Delta R.T. -0.02 min
Lab File: VL034288.D
Acq: 14 Oct 2019 19:18

Instrument :
MSVOA_L
ClientSampleId :
IA-3

Tgt Ion:114 Resp: 1681036

Ion	Ratio	Lower	Upper
114	100		
63	33.1	27.8	41.6
88	20.6	17.1	25.7

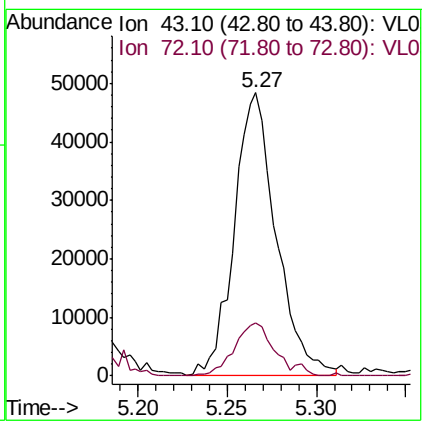


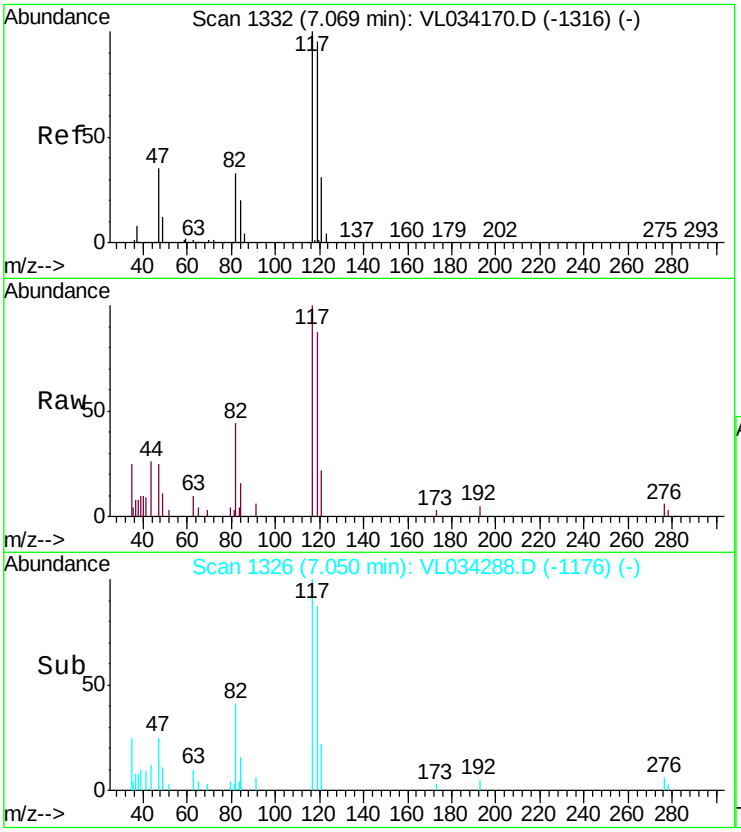


#34
2-Butanone
Concen: 0.462 ppbv
RT: 5.27 min Scan# 771
Delta R.T. -0.00 min
Lab File: VL034288.D
Acq: 14 Oct 2019 19:18

Tgt Ion: 43 Resp: 79385

Ion	Ratio	Lower	Upper
43	100		
72	18.4	15.0	22.6



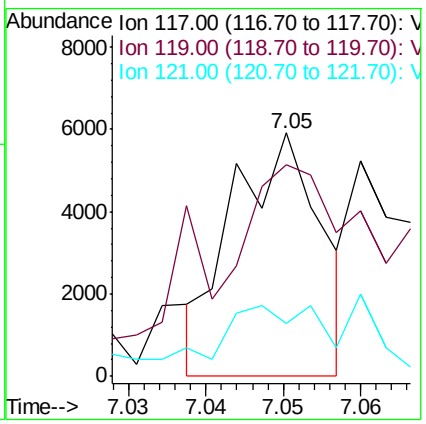


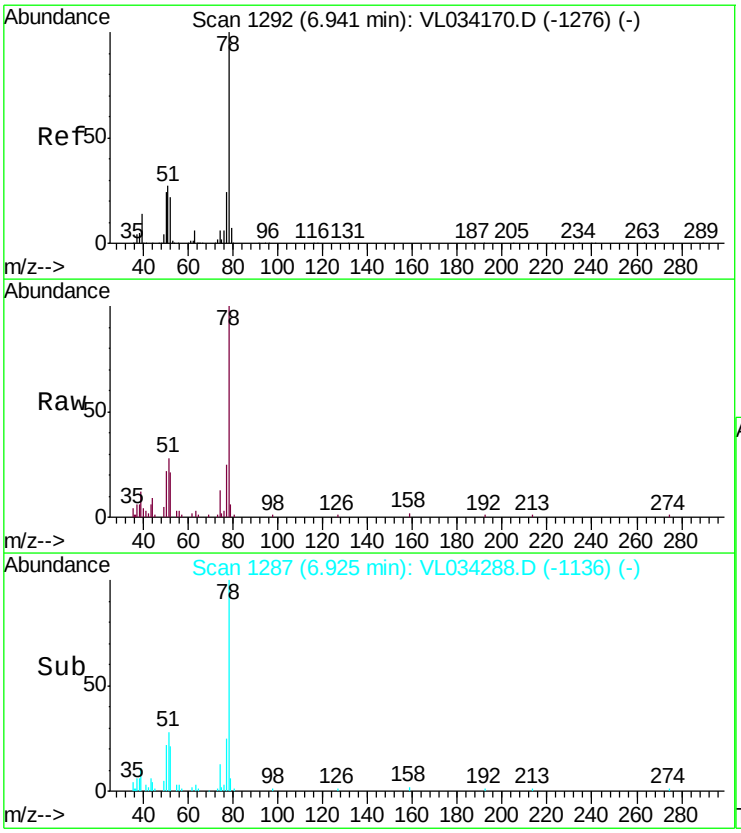
#35
Carbon Tetrachloride
Concen: 0.034 ppbv
RT: 7.05 min Scan# 1326
Delta R.T. -0.02 min
Lab File: VL034288.D
Acq: 14 Oct 2019 19:18

Instrument : MSVOA_L
ClientSampleId : IA-3

Tgt Ion:117 Resp: 4721

Ion	Ratio	Lower	Upper
117	100		
119	38.9	75.8	113.6#
121	14.3	25.0	37.6#

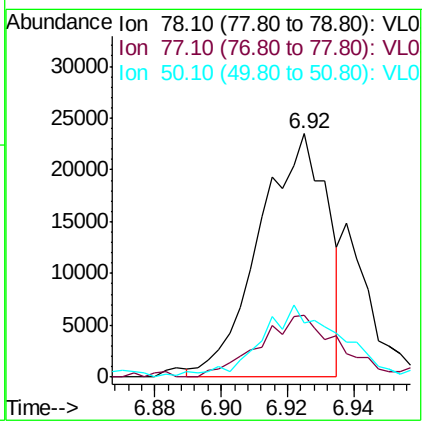


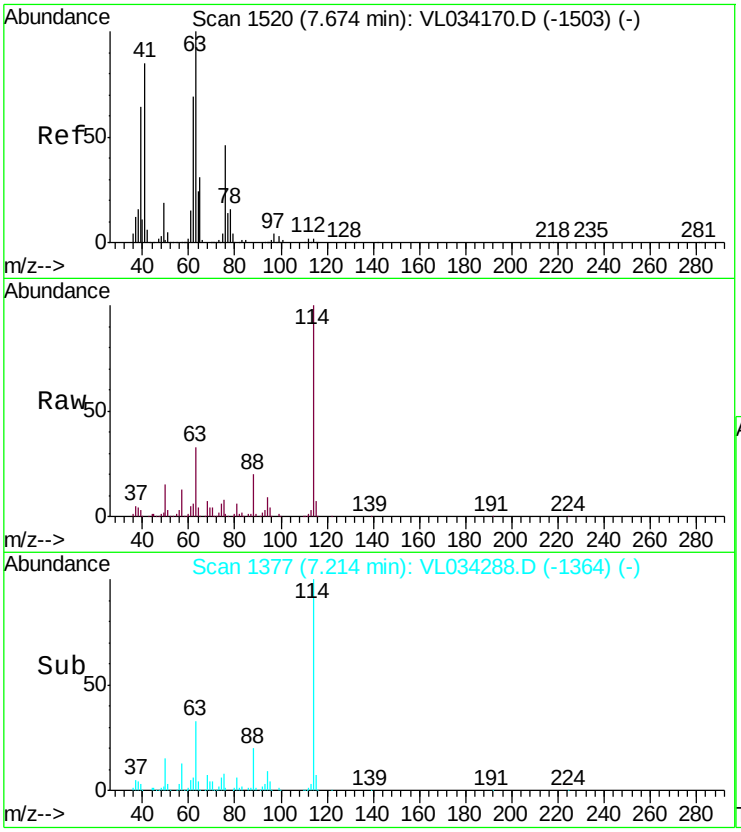


#36
Benzene
Concen: 0.181 ppbv
RT: 6.92 min Scan# 1287
Delta R.T. -0.02 min
Lab File: VL034288.D
Acq: 14 Oct 2019 19:18

Tgt Ion: 78 Resp: 33577

Ion	Ratio	Lower	Upper
78	100		
77	26.2	19.0	28.4
50	20.3	18.9	28.3



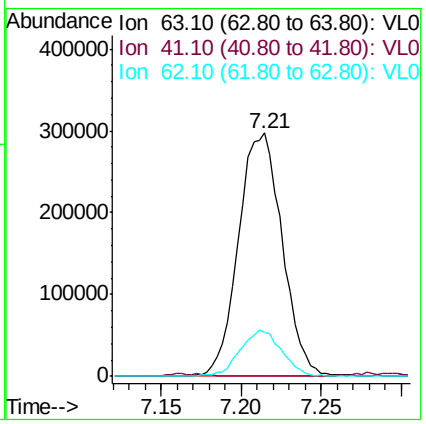


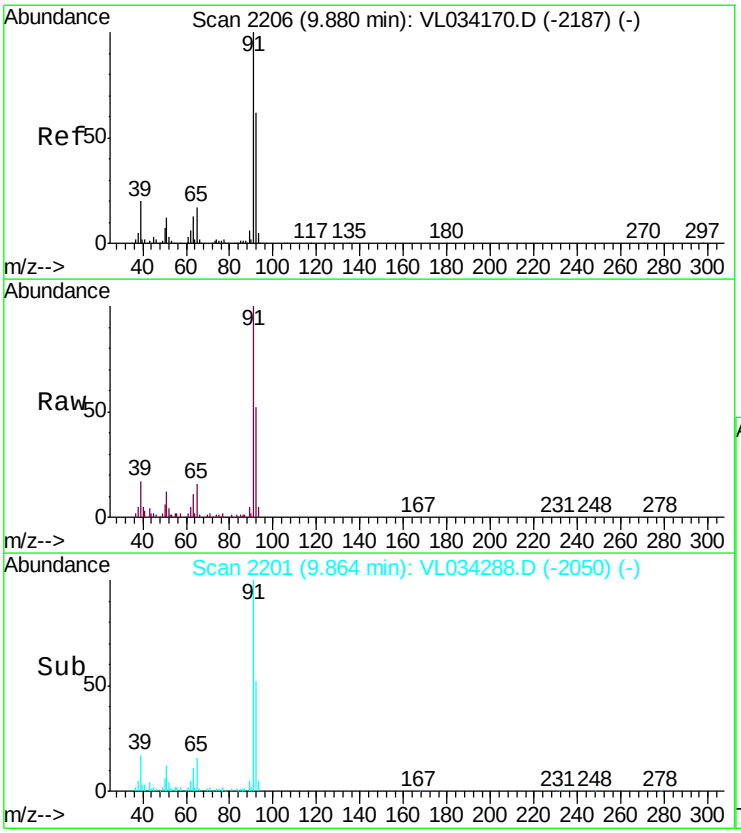
#39
1,2-Dichloropropane
Concen: 6.608 ppbv
RT: 7.21 min Scan# 1377
Delta R.T. -0.46 min
Lab File: VL034288.D
Acq: 14 Oct 2019 19:18

Instrument : MSVOA_L
ClientSampleId : IA-3

Tgt Ion: 63 Resp: 551246

Ion	Ratio	Lower	Upper
63	100		
41	0.0	68.4	102.6#
62	18.1	55.4	83.2#

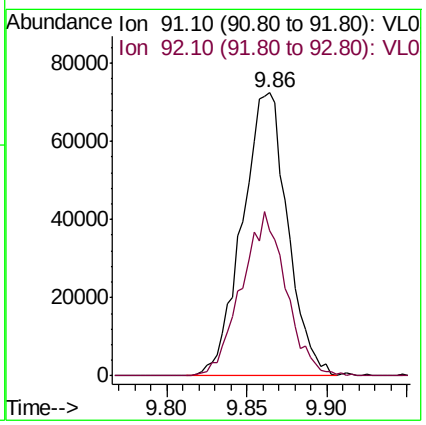


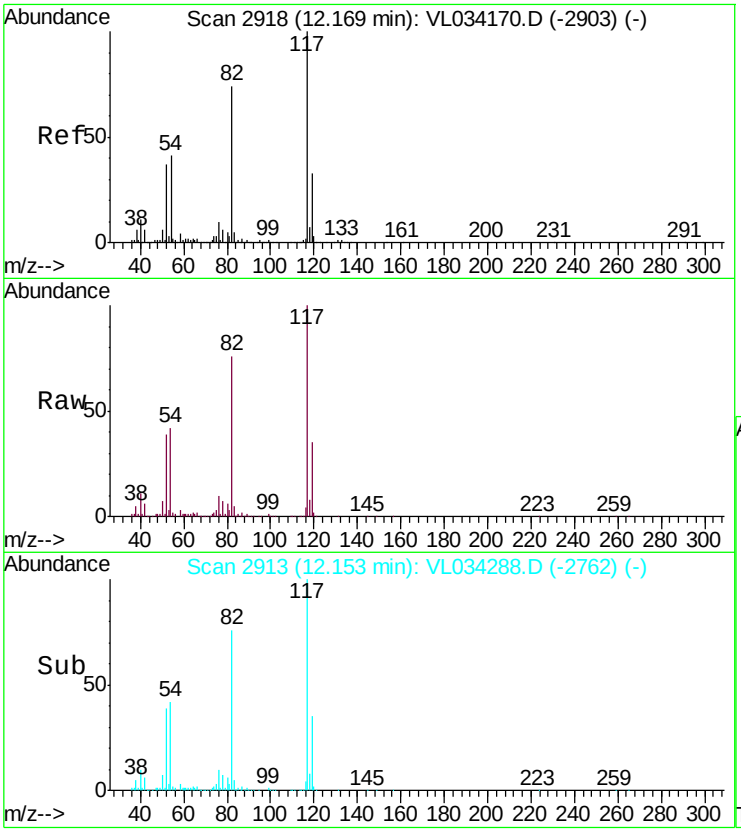


#53
Toluene
Concen: 0.696 ppbv
RT: 9.86 min Scan# 2201
Delta R.T. -0.02 min
Lab File: VL034288.D
Acq: 14 Oct 2019 19:18

Tgt Ion: 91 Resp: 141169

Ion	Ratio	Lower	Upper
91	100		
92	56.9	49.0	73.6



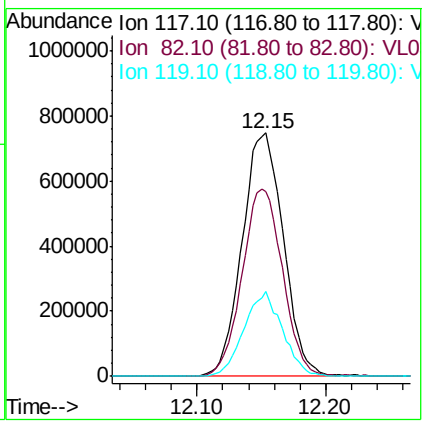


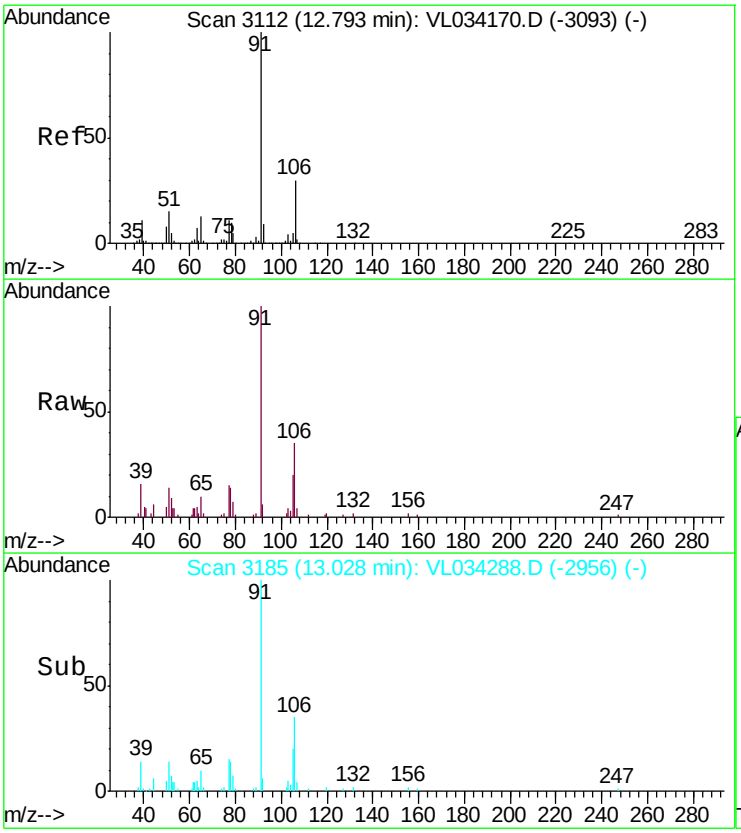
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.15 min Scan# 2913
Delta R.T. -0.02 min
Lab File: VL034288.D
Acq: 14 Oct 2019 19:18

Instrument : MSVOA_L
ClientSampleId : IA-3

Tgt Ion:117 Resp: 1664253

Ion	Ratio	Lower	Upper
117	100		
82	75.8	58.2	87.4
119	32.5	23.7	35.5

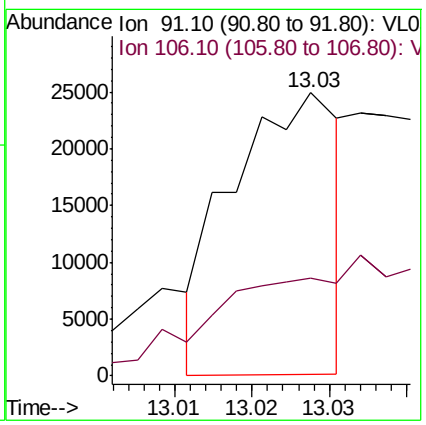


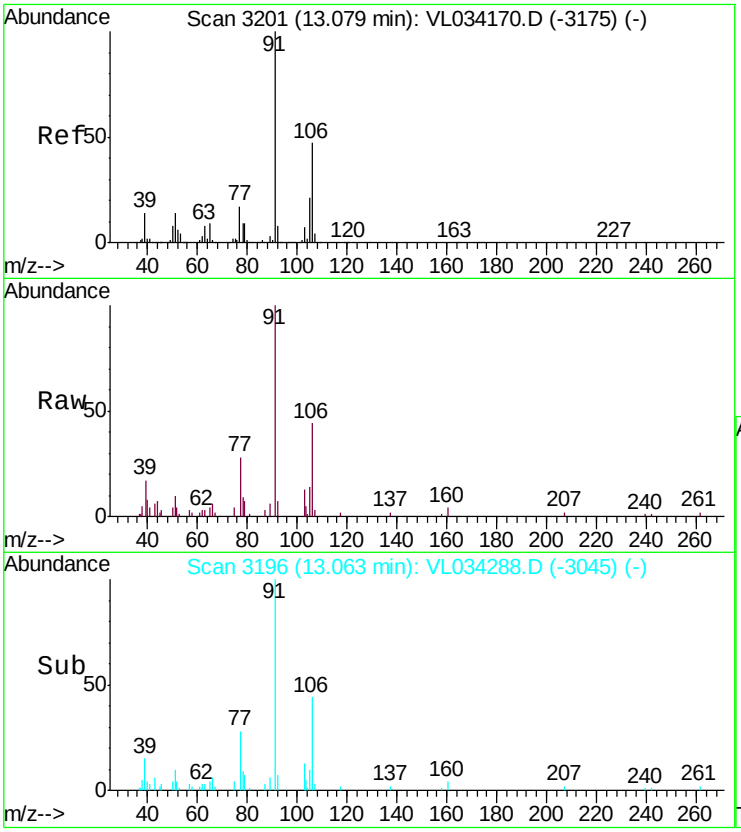


#58
Ethyl Benzene
Concen: 0.089 ppbv
RT: 13.03 min Scan# 3185
Delta R.T. 0.23 min
Lab File: VL034288.D
Acq: 14 Oct 2019 19:18

Tgt Ion: 91 Resp: 23906

Ion	Ratio	Lower	Upper
91	100		
106	32.0	24.2	36.4



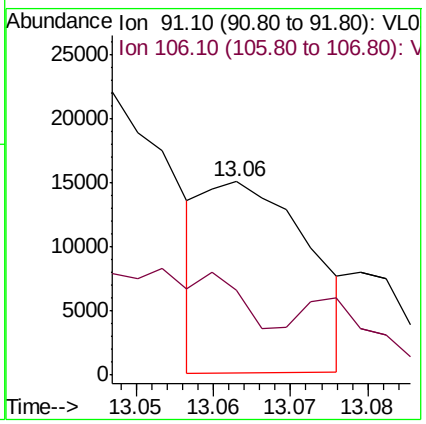


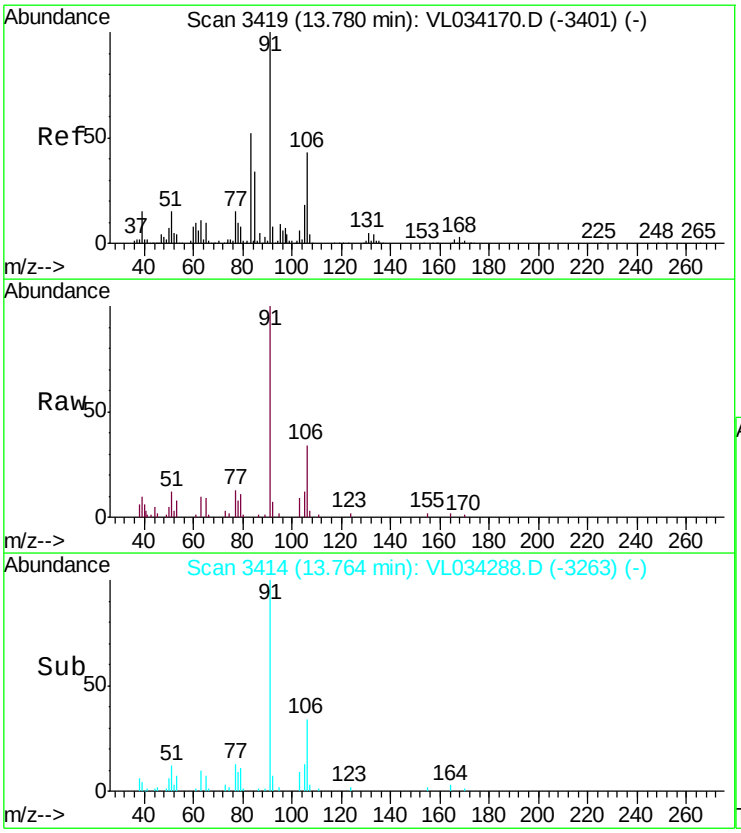
#59
m/p-Xylene
Concen: 0.063 ppbv
RT: 13.06 min Scan# 3196
Delta R.T. -0.02 min
Lab File: VL034288.D
Acq: 14 Oct 2019 19:18

Instrument :
MSVOA_L
ClientSampleId :
IA-3

Tgt Ion: 91 Resp: 14064

Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.5	53.3#

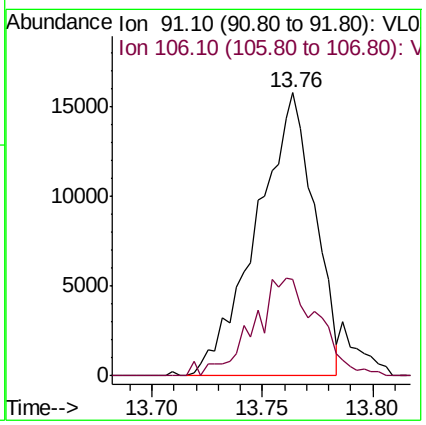


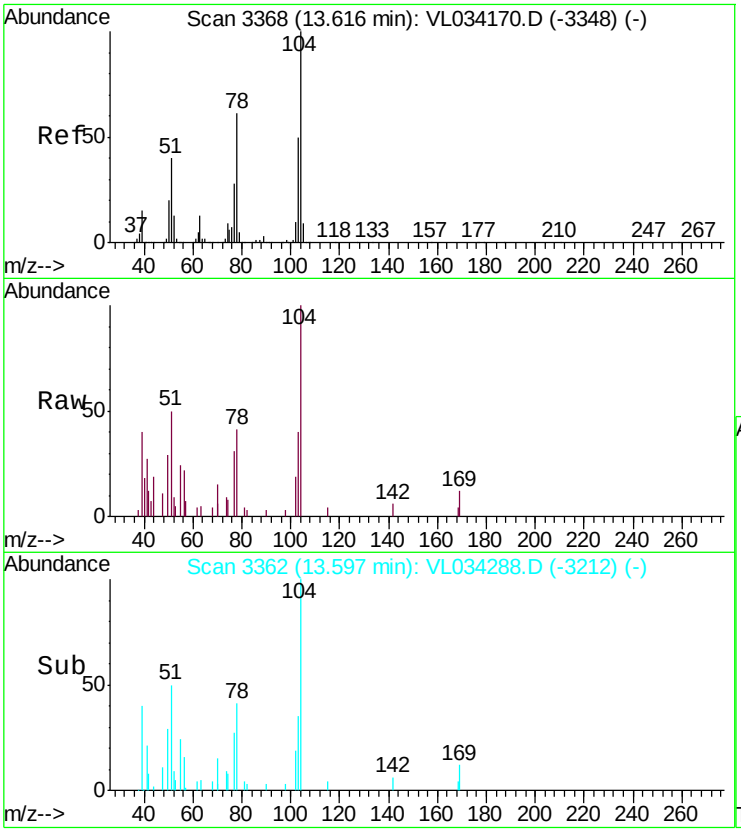


#60
o-Xylene
Concen: 0.128 ppbv
RT: 13.76 min Scan# 3414
Delta R.T. -0.02 min
Lab File: VL034288.D
Acq: 14 Oct 2019 19:18

Tgt Ion: 91 Resp: 28523

Ion	Ratio	Lower	Upper
91	100		
106	39.0	21.2	63.6



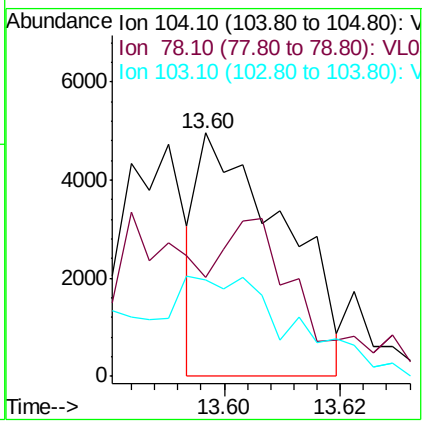


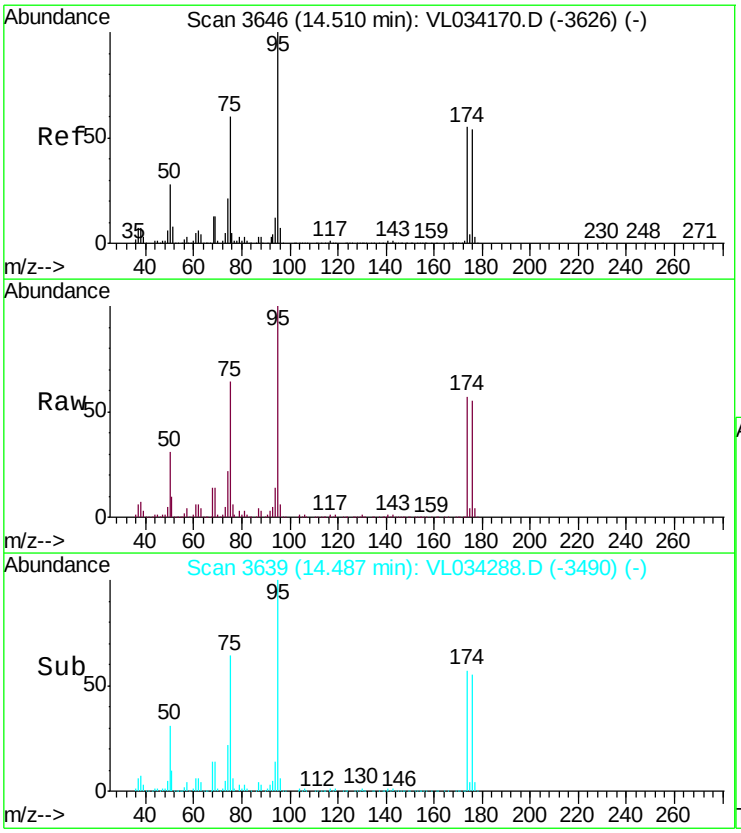
#61
Styrene
Concen: 0.032 ppbv
RT: 13.60 min Scan# 3362
Delta R.T. -0.02 min
Lab File: VL034288.D
Acq: 14 Oct 2019 19:18

Instrument : MSVOA_L
ClientSampleId : IA-3

Tgt Ion:104 Resp: 5072

Ion	Ratio	Lower	Upper
104	100		
78	0.0	49.7	74.5#
103	81.5	38.4	57.6#

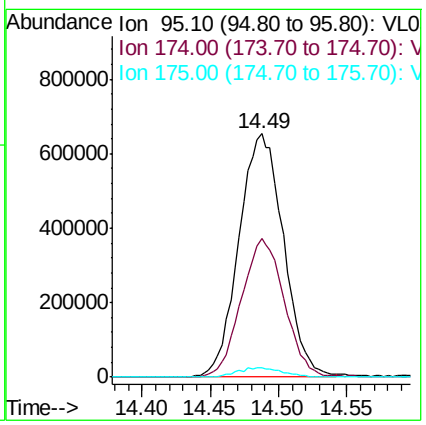


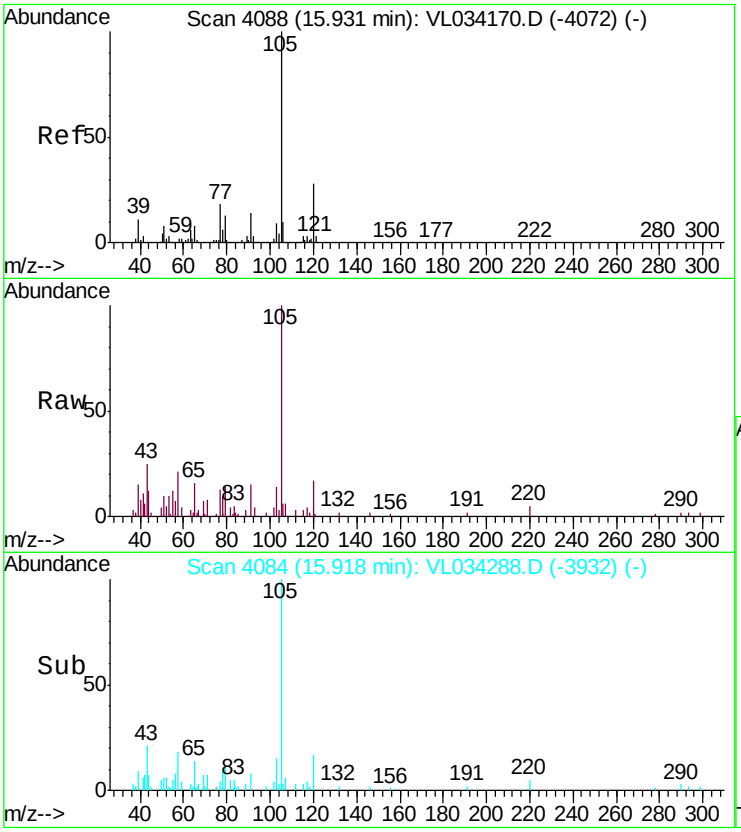


#68
1-Bromo-4-Fluorobenzene
Concen: 10.228 ppbv
RT: 14.49 min Scan# 3639
Delta R.T. -0.02 min
Lab File: VL034288.D
Acq: 14 Oct 2019 19:18

Tgt Ion: 95 Resp: 1479028

Ion	Ratio	Lower	Upper
95	100		
174	55.3	45.1	67.7
175	3.9	3.3	4.9



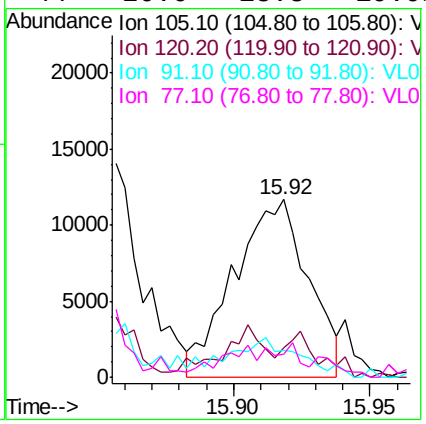


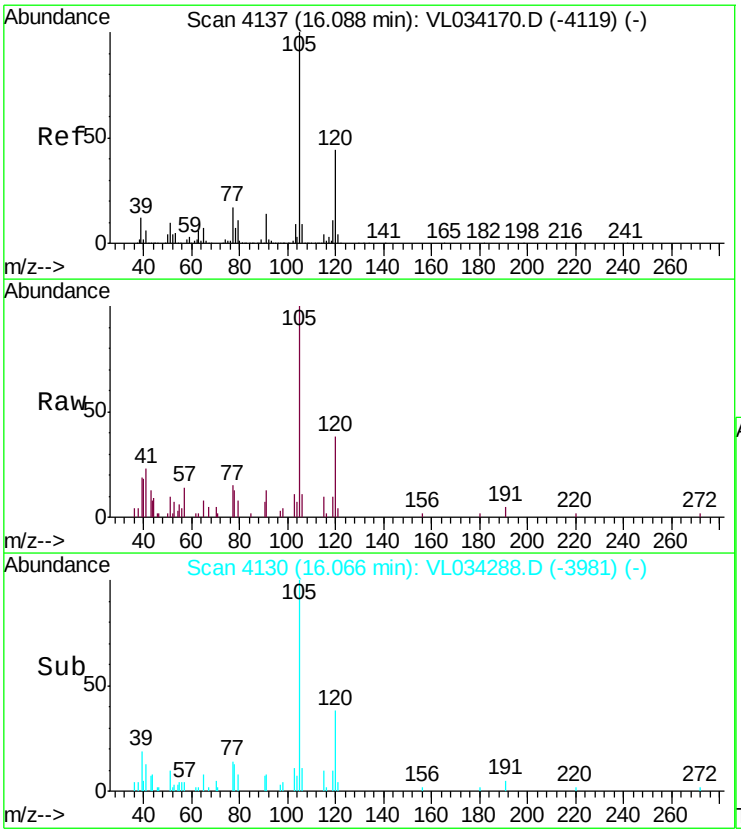
#72
4-Ethyltoluene
Concen: 0.088 ppbv
RT: 15.92 min Scan# 4084
Delta R.T. -0.01 min
Lab File: VL034288.D
Acq: 14 Oct 2019 19:18

Instrument : MSVOA_L
ClientSampleId : IA-3

Tgt Ion:105 Resp: 22045

Ion	Ratio	Lower	Upper
105	100		
120	25.0	23.3	34.9
91	22.8	11.4	17.2#
77	20.0	13.3	19.9#

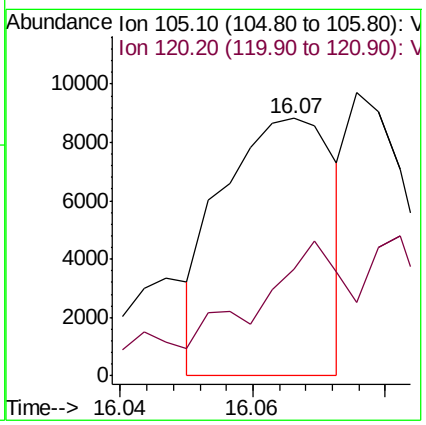


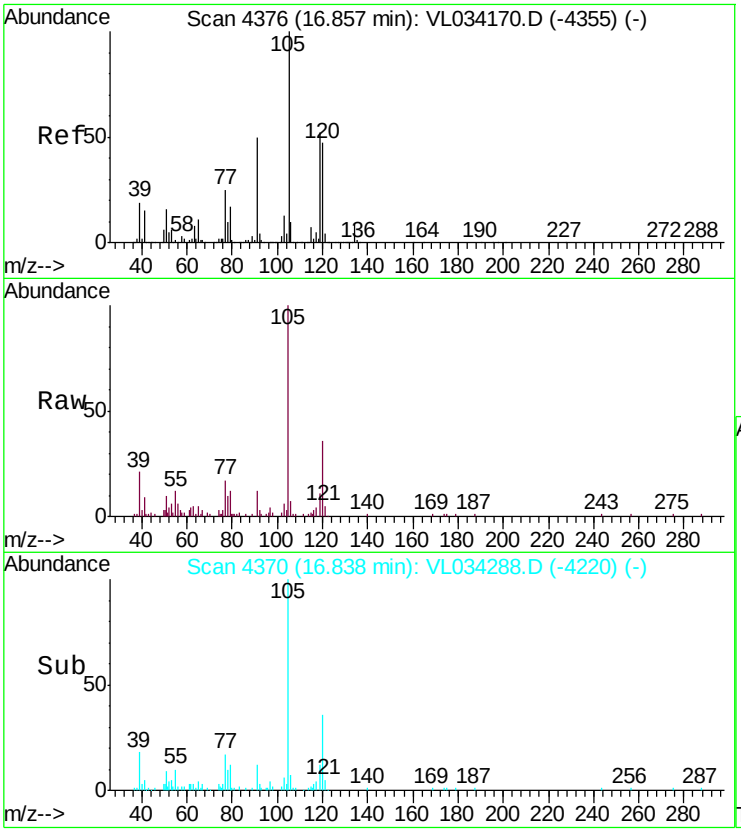


#73
1,3,5-Trimethylbenzene
Concen: 0.043 ppbv
RT: 16.07 min Scan# 4130
Delta R.T. -0.02 min
Lab File: VL034288.D
Acq: 14 Oct 2019 19:18

Tgt Ion:105 Resp: 10384

Ion	Ratio	Lower	Upper
105	100		
120	48.3	35.6	53.4



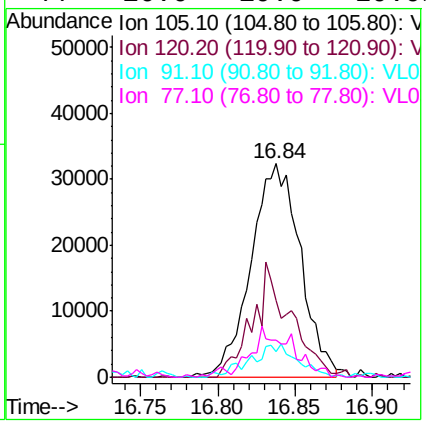


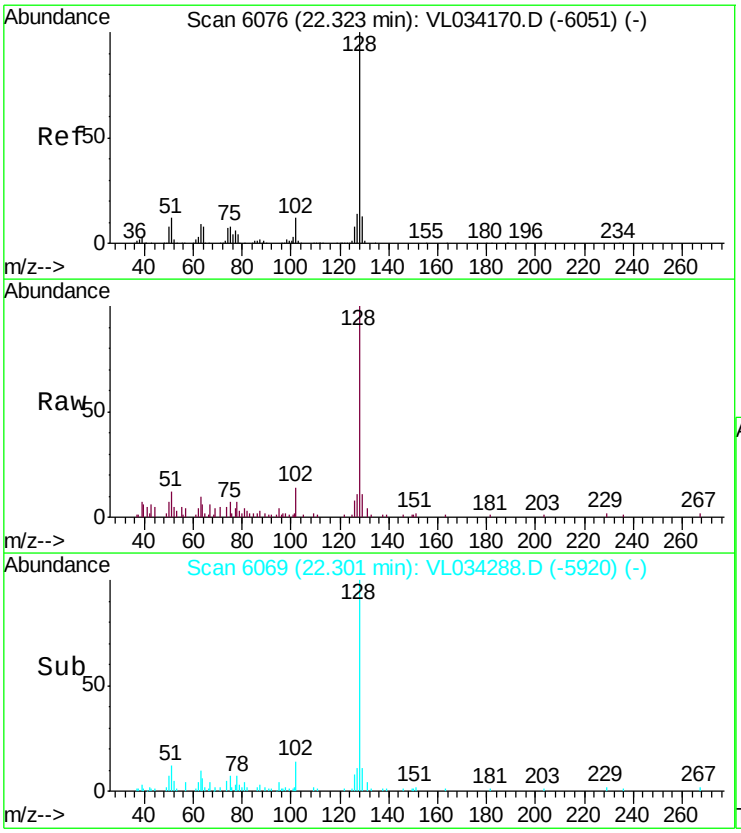
#74
1,2,4-Trimethylbenzene
Concen: 0.279 ppbv
RT: 16.84 min Scan# 4370
Delta R.T. -0.02 min
Lab File: VL034288.D
Acq: 14 Oct 2019 19:18

Instrument :
MSVOA_L
ClientSampleId :
IA-3

Tgt Ion:105 Resp: 71921

Ion	Ratio	Lower	Upper
105	100		
120	36.0	37.5	56.3#
91	11.6	41.1	61.7#
77	16.0	19.9	29.9#

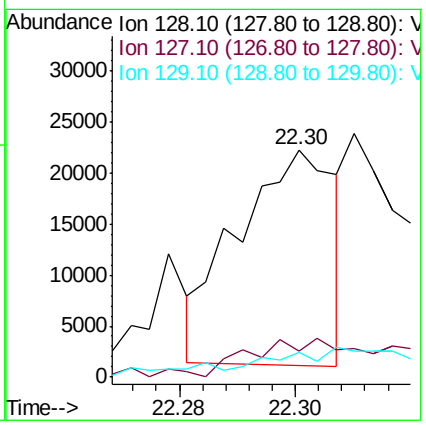


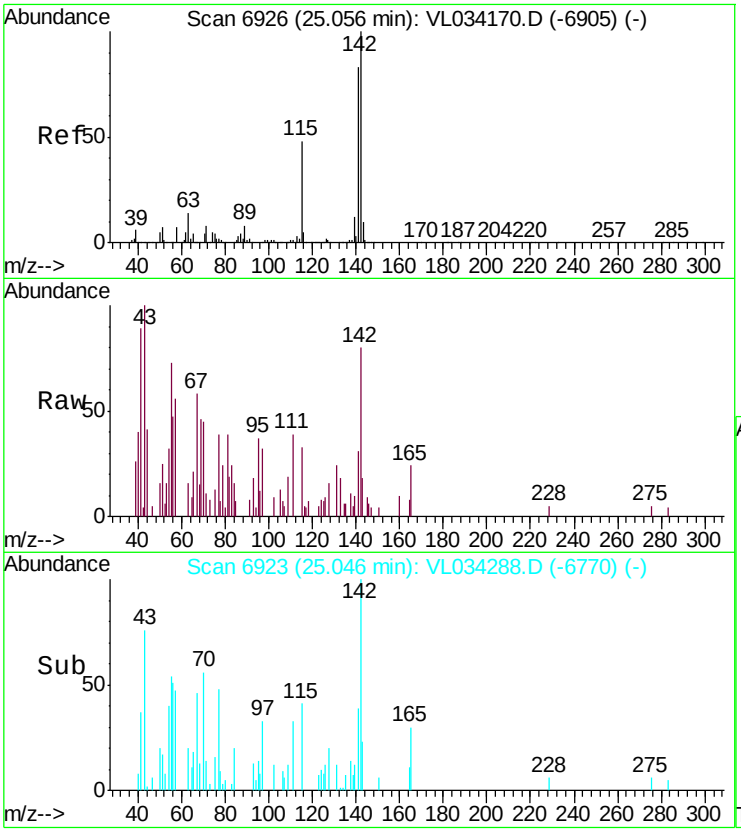


#79
Naphthalene
Concen: 0.108 ppbv
RT: 22.30 min Scan# 6069
Delta R.T. -0.02 min
Lab File: VL034288.D
Acq: 14 Oct 2019 19:18

Tgt Ion:128 Resp: 24596

Ion	Ratio	Lower	Upper
128	100		
127	13.4	11.1	16.7
129	11.3	10.2	15.4





#80
Naphthalene,2-methyl-
Concen: 0.059 ppbv
RT: 25.05 min Scan# 6923
Delta R.T. -0.01 min
Lab File: VL034288.D
Acq: 14 Oct 2019 19:18

Instrument :
MSVOA_L
ClientSampleId :
IA-3

Tgt Ion:142 Resp: 6268

Ion	Ratio	Lower	Upper
142	100		
141	105.3	67.6	101.4#
115	101.4	36.9	55.3#