Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL120919\
Data File : VL034482.D
Acq On : 10 Dec 2019 2:47
Operator : SY/AP
Sample : K6181-02
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : 1A-2

Quant Time: Dec 10 07:14:41 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111919AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Nov 19 14:15:35 2019
QLast Update : Tue Nov 19 14:15:35 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	5.67	49	847673	10.00	ppbv		0.00
33) 1,4-Difluorobenzene	7.20	114	1723616	10.00	ppbv		0.00
55) Chlorobenzene-d5	12.13	117	1717461	10.00	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	14.47	95	1479486	10.24	ppbv		-0.01
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.40%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.02	85	30676	0.200	ppbv		89
3) Chlorodifluoromethane	2.96	51	299803	2.835	ppbv		98
4) Chloromethane	3.11	50	31192	0.500	ppbv	#	86
9) Propene	2.98	41	252342	5.374	ppbv		92
10) Heptane	8.15	43	191955	1.584	ppbv		99
11) Trichlorofluoromethane	3.93	101	28392	0.186	ppbv		95
12) 1,1,2-Trichlorotrifluoroet	4.47	101	4013	0.040	ppbv	#	14
13) Ethanol	3.59	45	734289	56.139	ppbv		97
15) Acetone	3.83	43	879492	7.246	ppbv	#	83
16) 1,3-Butadiene	3.28	39	213523	4.038	ppbv	#	16
19) Isopropyl Alcohol	3.96	45	207397	2.666	ppbv	#	1
20) Methylene Chloride	4.33	84	199390	4.632	ppbv		91
21) Allyl Chloride	4.36	41	72281	0.994	ppbv	#	62
23) Vinyl Acetate	5.05	43	213380	1.346	ppbv	#	1
25) Ethyl Acetate	5.69	43	333280	1.539	ppbv	#	80
26) Hexane	5.69	57	423633	4.552	ppbv	#	42
30) Cyclohexane	7.15	84	24723	0.351	ppbv	#	1
34) 2-Butanone	5.25	43	190881	1.345	ppbv		98
36) Benzene	6.91	78	616427	3.578	ppbv		96
38) Trichloroethene	7.87	130	45631	0.645	ppbv		89
39) 1,2-Dichloropropane	7.20	63	502706	7.573	ppbv	#	24
41) Tetrahydrofuran	6.07	42	34063	0.428	ppbv		98
42) Bromodichloromethane	7.83	83	6640	0.041	ppbv	#	24
44) 2,2,4-Trimethylpentane	7.90	57	516761	1.641	ppbv	#	84
50) 4-Methyl-2-Pentanone	8.79	43	20452	0.100	ppbv	#	84
51) 2-Hexanone	10.15	43	16454	0.096	ppbv	#	35
52) Tetrachloroethene	11.27	164	9928	0.133	ppbv	#	63
53) Toluene	9.84	91	1752635	8.955	ppbv		99
58) Ethyl Benzene	12.76	91	506616	1.901	ppbv		94
59) m/p-Xylene	13.01	91	1436160	6.234	ppbv		100
60) o-Xylene	13.74	91	437500	1.921	ppbv		97
65) tert-Butylbenzene	16.82	119	20194	0.075	ppbv	#	1
72) 4-Ethyltoluene	15.90	105	110459	0.420	ppbv		98
73) 1,3,5-Trimethylbenzene	16.06	105	92861	0.360	ppbv		88
74) 1,2,4-Trimethylbenzene	16.82	105	320108	1.170	ppbv	#	66

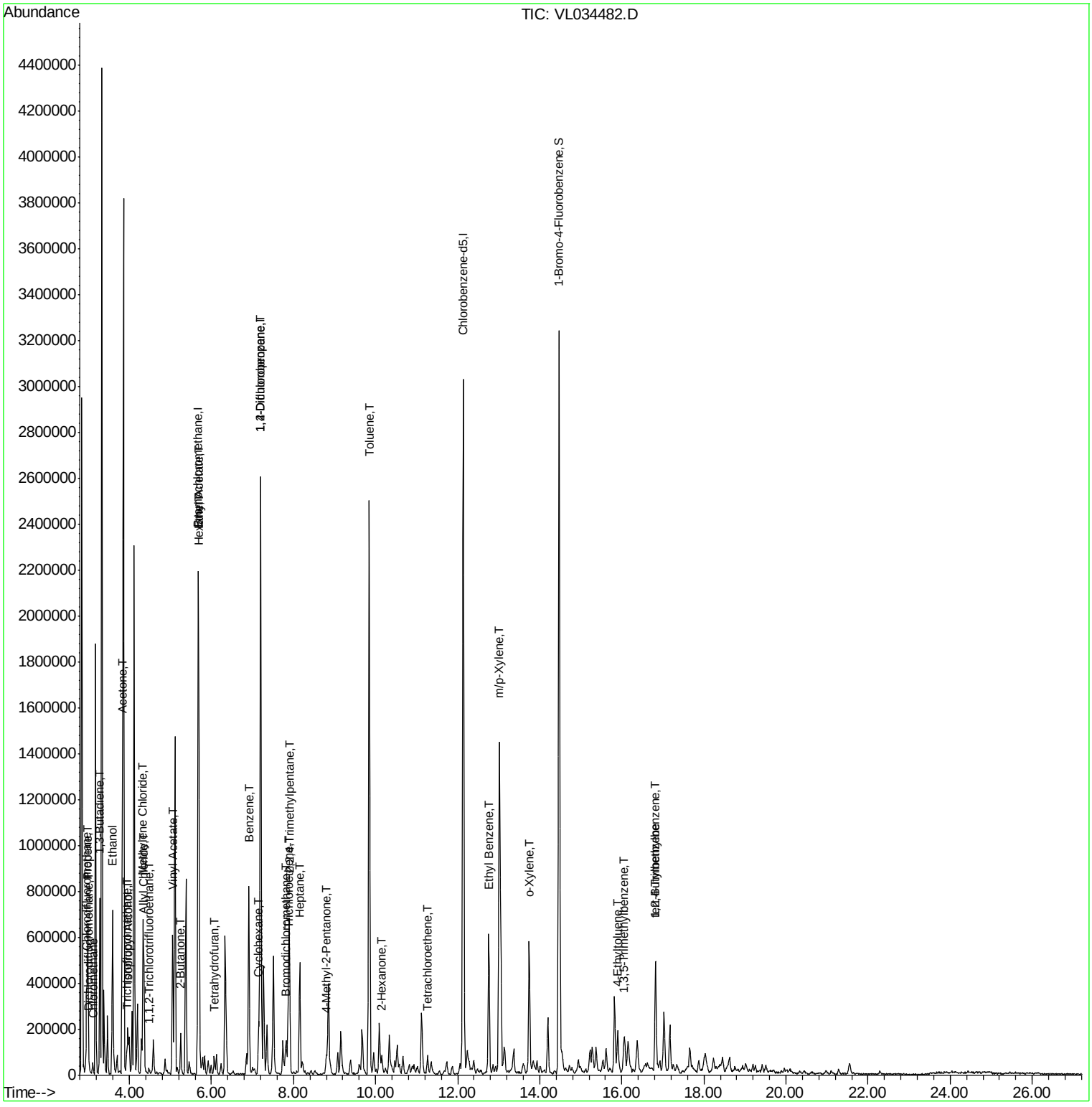
(#) = qualifier out of range (m) = manual integration (+) = signals summed

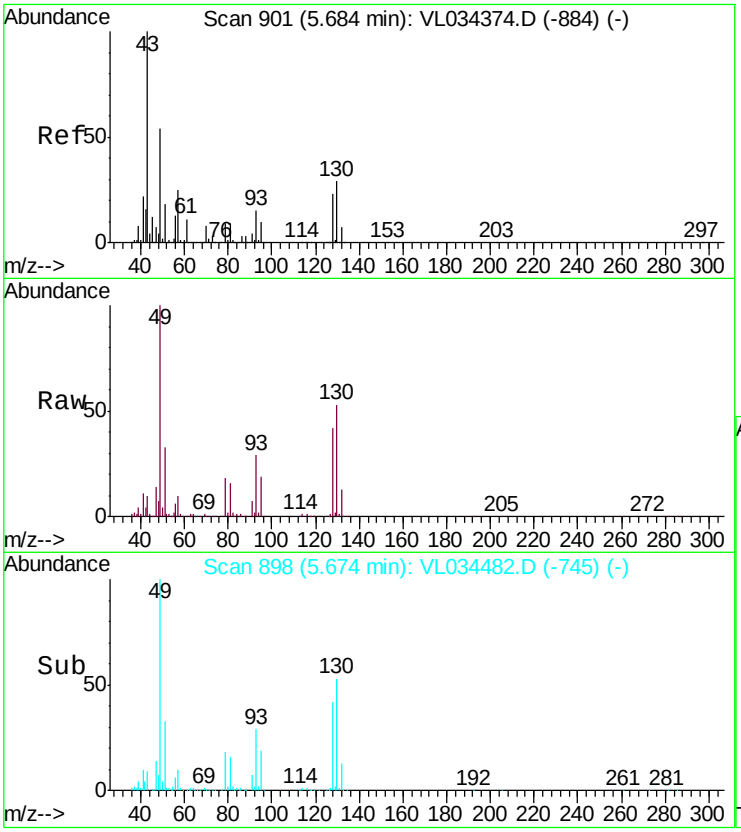
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL120919\
Data File : VL034482.D
Acq On : 10 Dec 2019 2:47
Operator : SY/AP
Sample : K6181-02
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : 1A-2

Quant Time: Dec 10 07:14:41 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111919AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Nov 19 14:15:35 2019
QLast Update : Tue Nov 19 14:15:35 2019
Response via : Initial Calibration



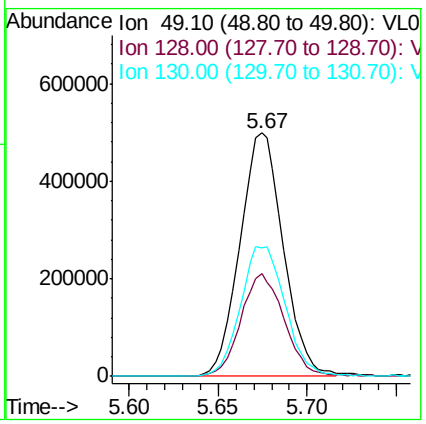


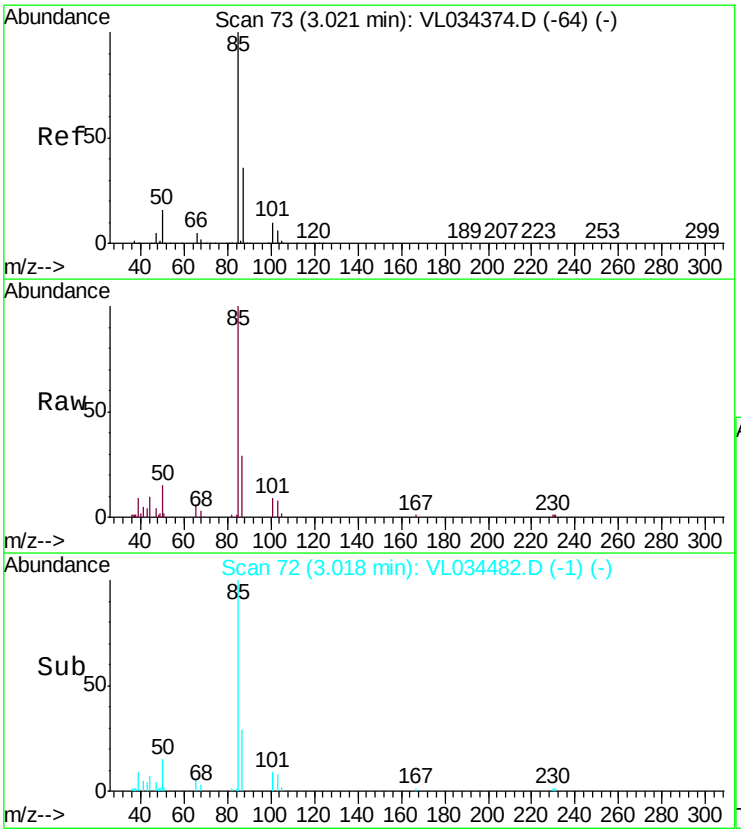
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.01 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Instrument :
MSVOA_L
ClientSampleId :
1A-2

Tgt Ion: 49 Resp: 847673

Ion	Ratio	Lower	Upper
49	100		
128	42.5	21.8	65.3
130	55.7	28.0	84.0

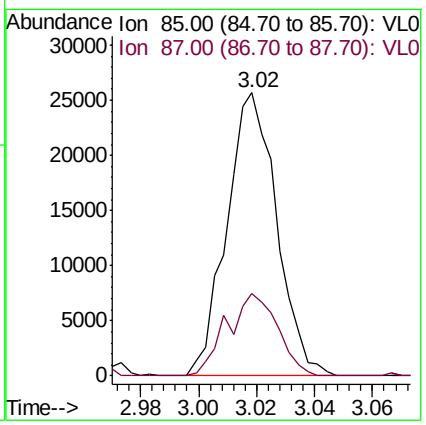


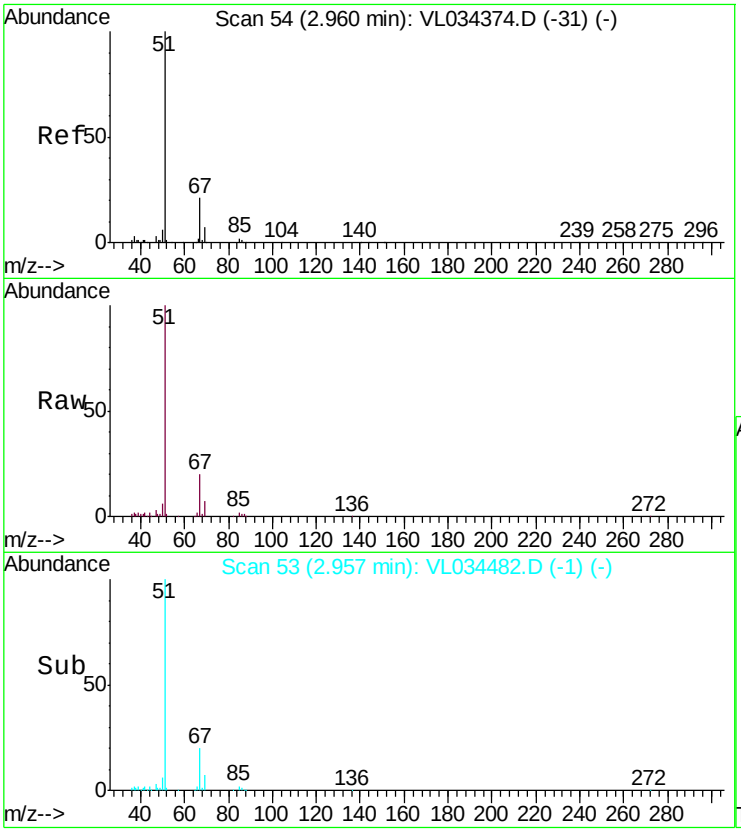


#2
Dichlorodifluoromethane
Concen: 0.200 ppbv
RT: 3.02 min Scan# 72
Delta R.T. -0.00 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Tgt Ion: 85 Resp: 30676

Ion	Ratio	Lower	Upper
85	100		
87	29.3	28.5	42.7



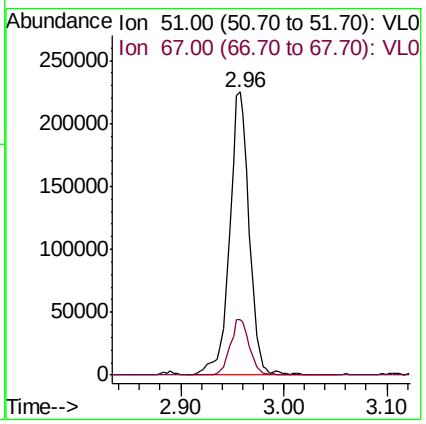


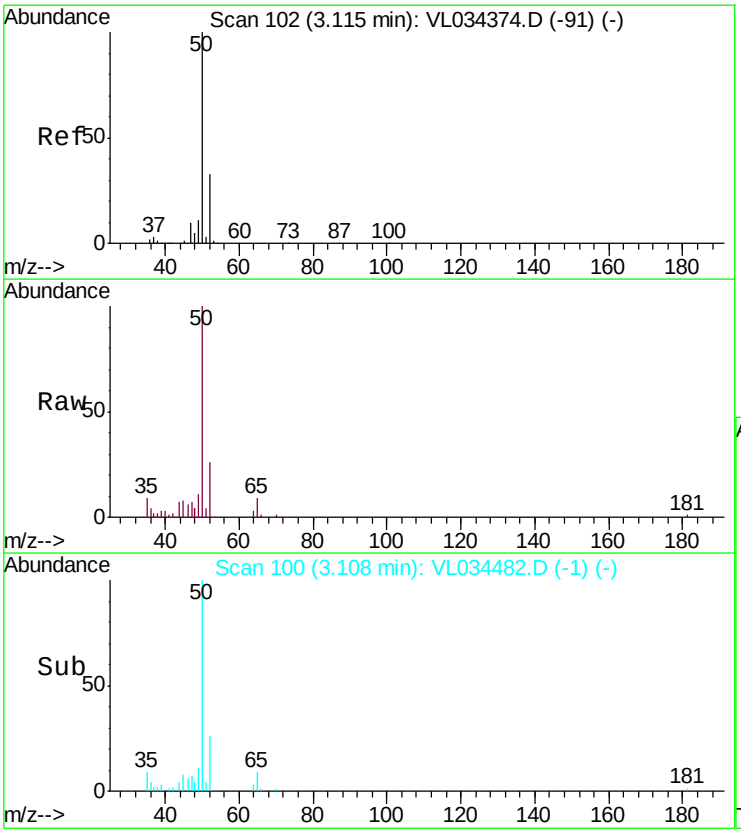
#3
Chlorodifluoromethane
Concen: 2.835 ppbv
RT: 2.96 min Scan# 53
Delta R.T. -0.00 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Instrument :
MSVOA_L
ClientSampleId :
1A-2

Tgt Ion: 51 Resp: 299803

Ion	Ratio	Lower	Upper
51	100		
67	19.1	16.2	24.2

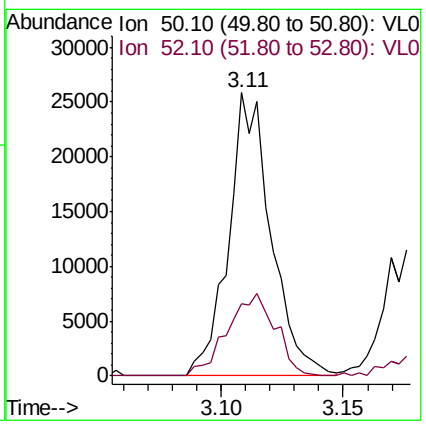


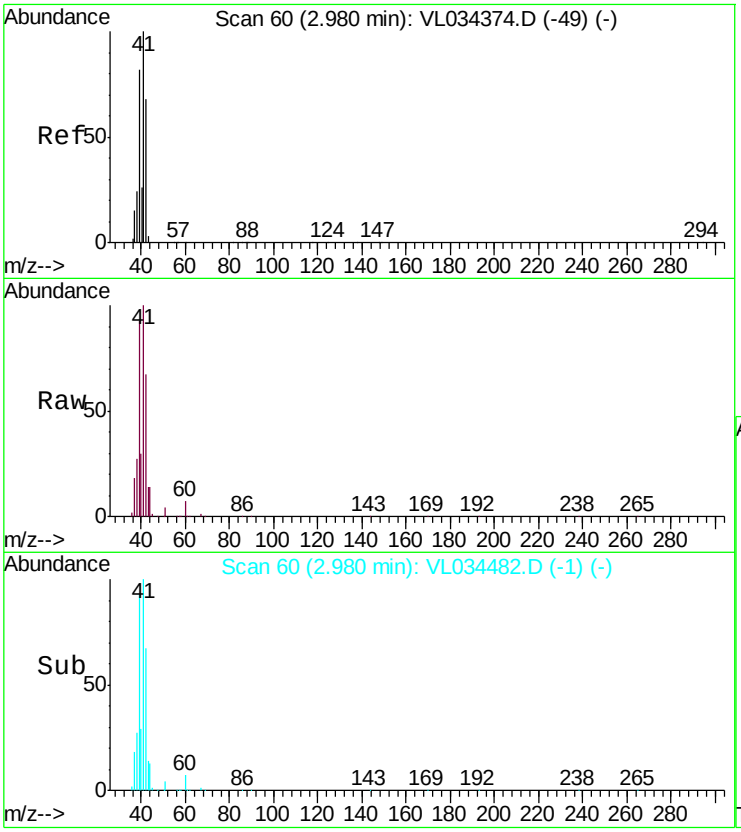


#4
Chloromethane
Concen: 0.500 ppbv
RT: 3.11 min Scan# 100
Delta R.T. -0.01 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Tgt Ion: 50 Resp: 31192

Ion	Ratio	Lower	Upper
50	100		
52	25.5	26.8	40.2#



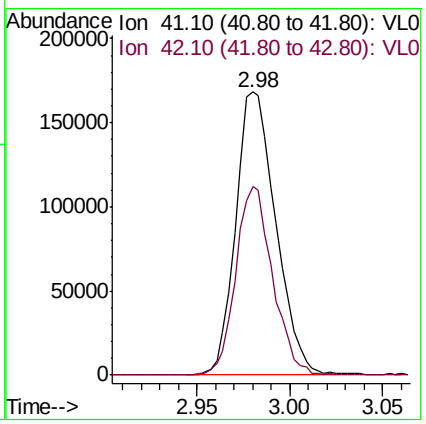


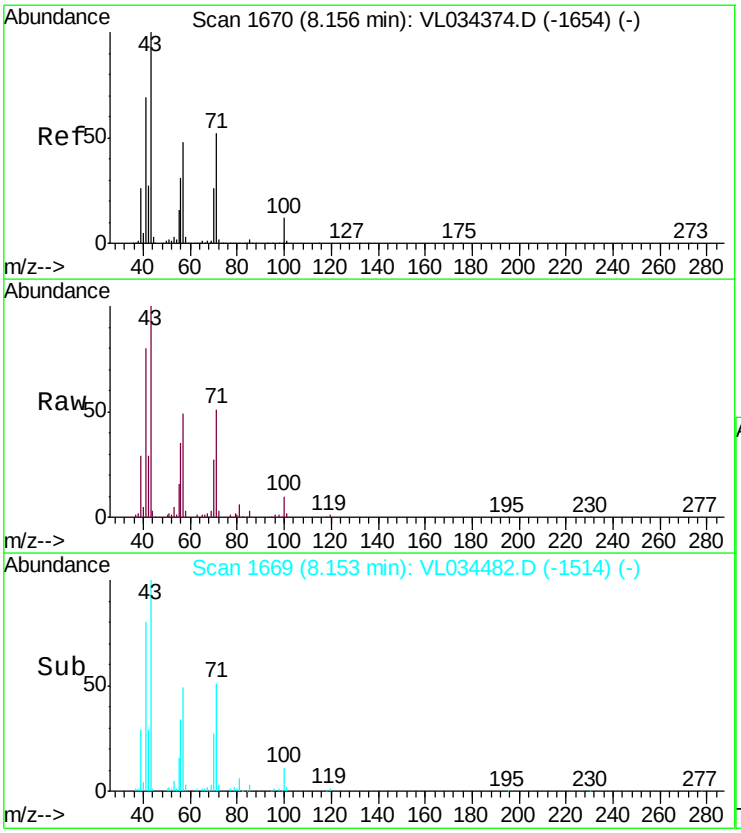
#9
Propene
Concen: 5.374 ppbv
RT: 2.98 min Scan# 60
Delta R.T. 0.00 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Instrument :
MSVOA_L
ClientSampleId :
1A-2

Tgt Ion: 41 Resp: 252342

Ion	Ratio	Lower	Upper
41	100		
42	61.5	54.6	82.0

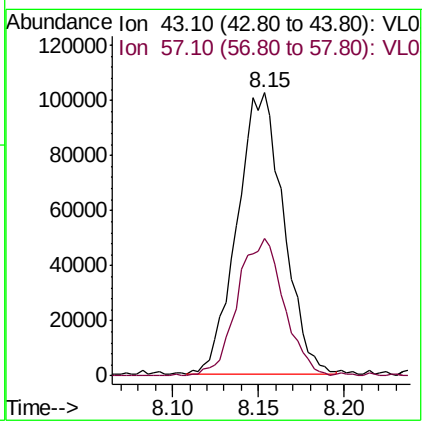


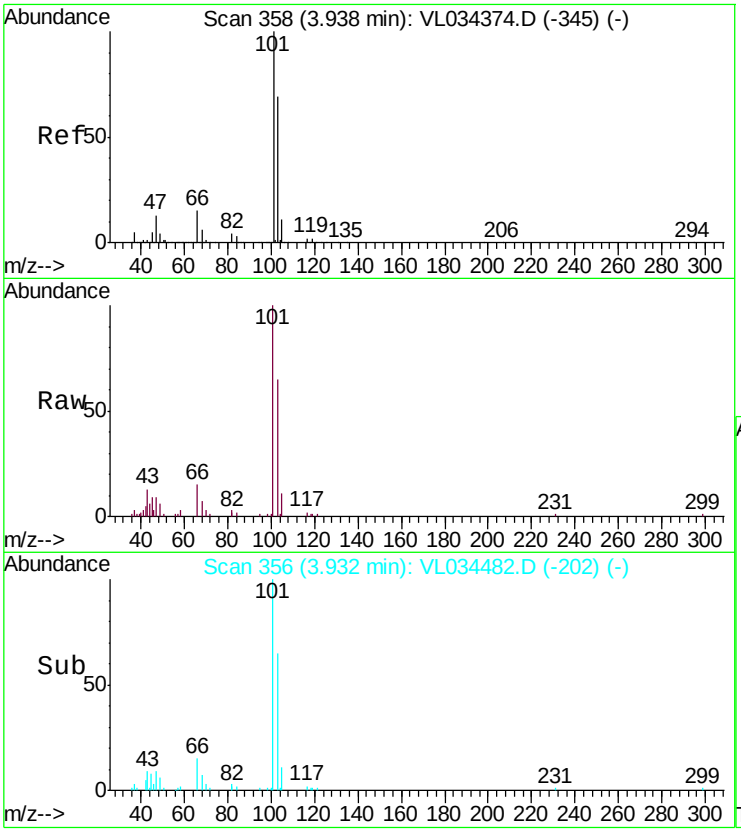


#10
Heptane
Concen: 1.584 ppbv
RT: 8.15 min Scan# 1669
Delta R.T. -0.00 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Tgt Ion: 43 Resp: 191955

Ion	Ratio	Lower	Upper
43	100		
57	49.4	40.2	60.2



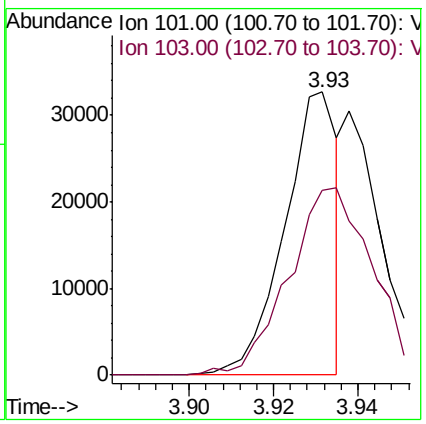


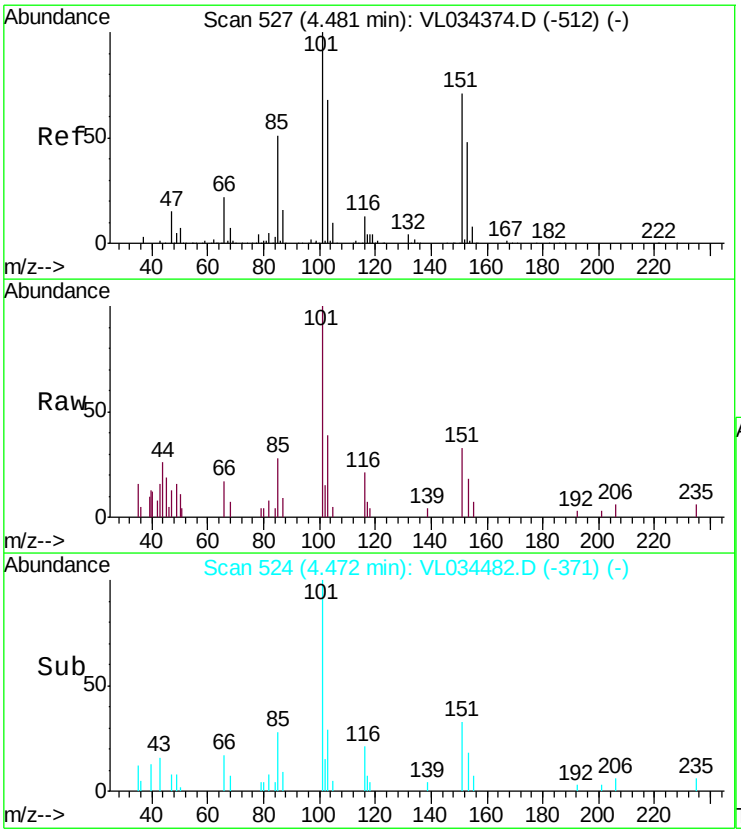
#11
Trichlorofluoromethane
Concen: 0.186 ppbv
RT: 3.93 min Scan# 356
Delta R.T. -0.01 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Instrument : MSVOA_L
ClientSampleId : 1A-2

Tgt Ion:101 Resp: 28392

Ion	Ratio	Lower	Upper
101	100		
103	65.1	55.4	83.0

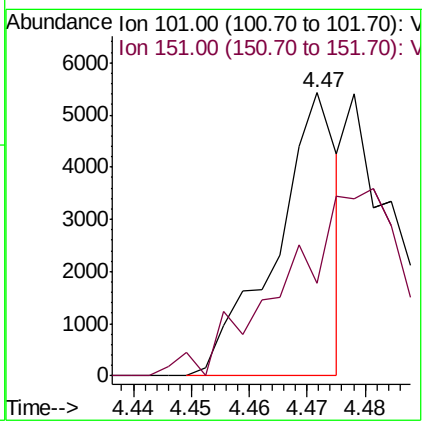


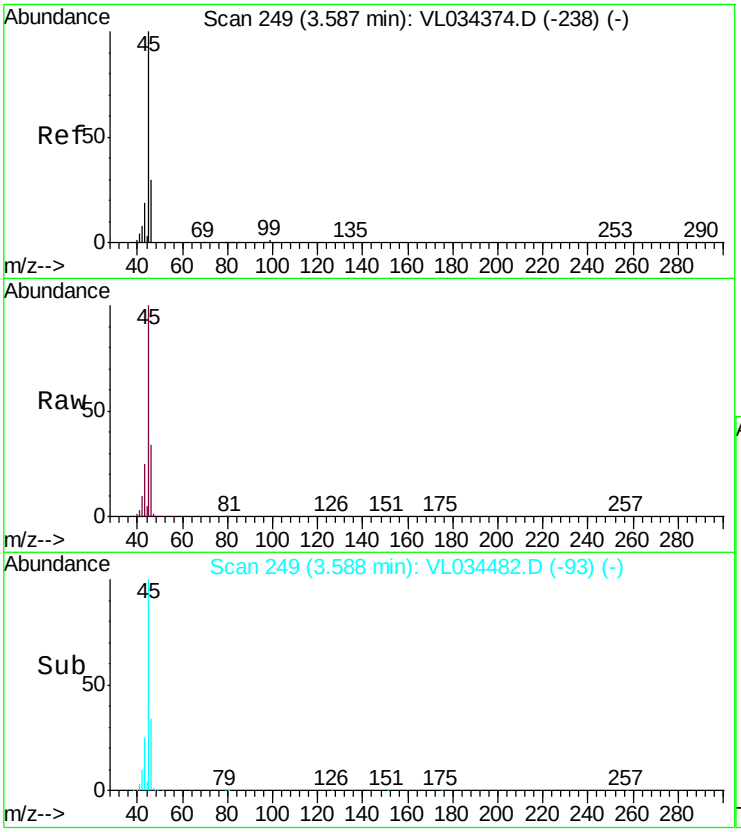


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.040 ppbv
RT: 4.47 min Scan# 524
Delta R.T. -0.01 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Tgt Ion:101 Resp: 4013

Ion	Ratio	Lower	Upper
101	100		
151	0.0	57.4	86.2#



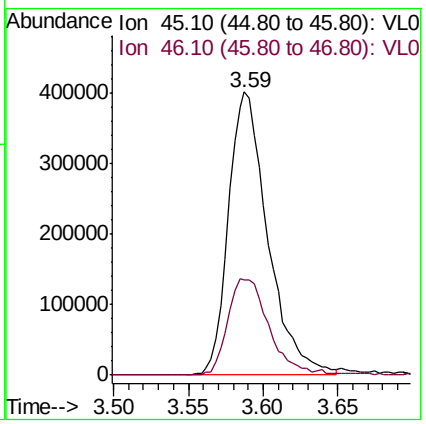


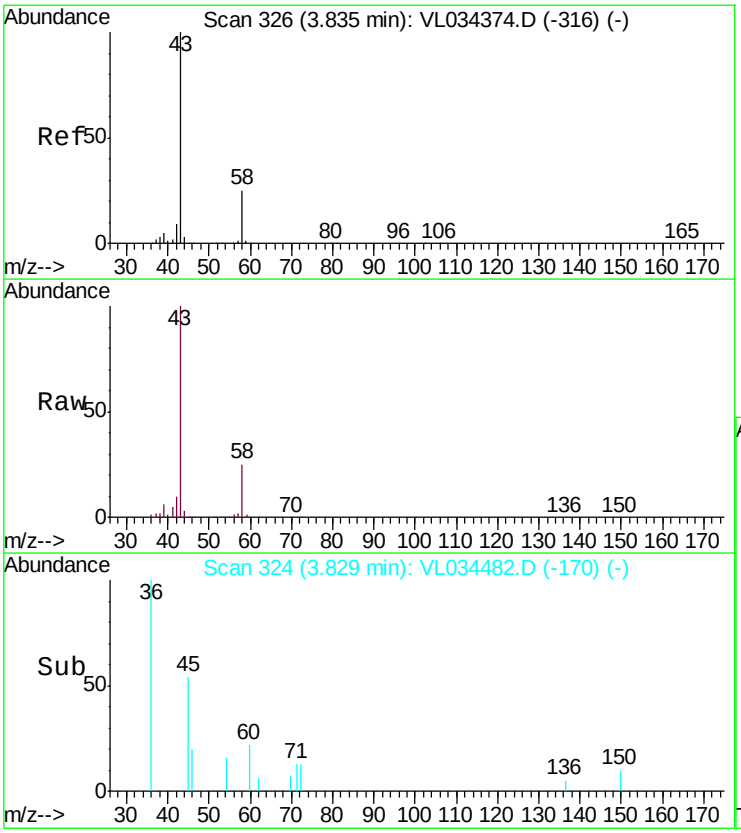
#13
Ethanol
Concen: 56.139 ppbv
RT: 3.59 min Scan# 249
Delta R.T. 0.00 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Instrument :
MSVOA_L
ClientSampleId :
1A-2

Tgt Ion: 45 Resp: 734289

Ion	Ratio	Lower	Upper
45	100		
46	36.3	13.8	55.4

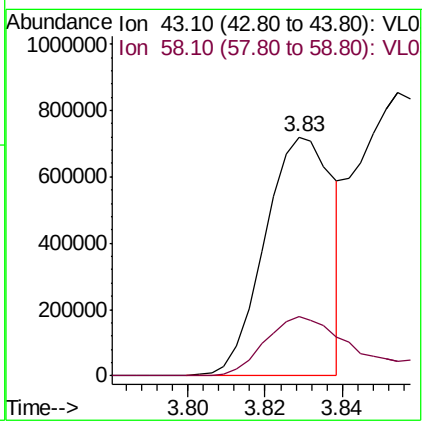


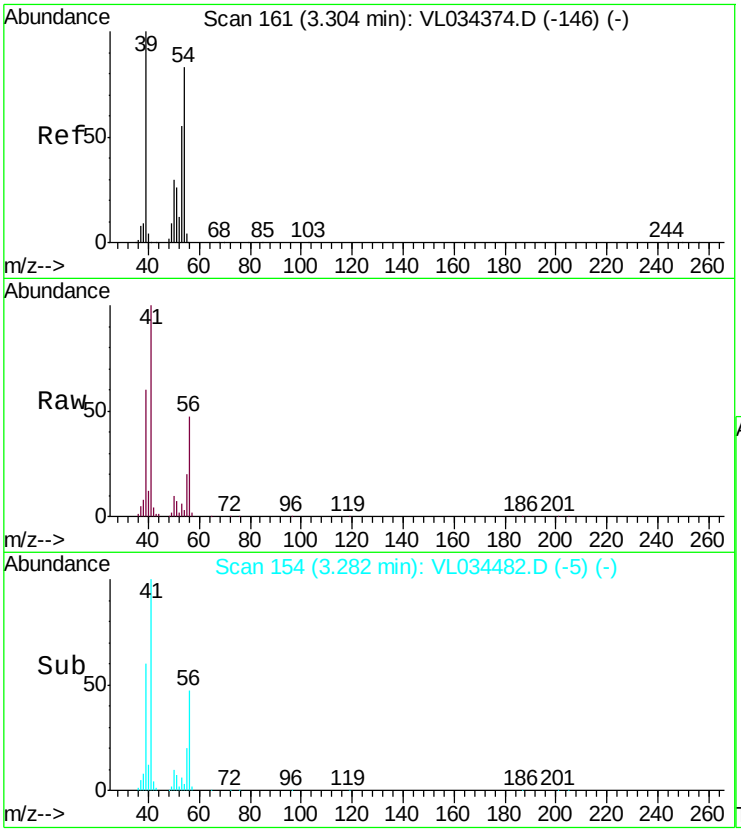


#15
Acetone
Concen: 7.246 ppbv
RT: 3.83 min Scan# 324
Delta R.T. -0.01 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Tgt Ion: 43 Resp: 879492

Ion	Ratio	Lower	Upper
43	100		
58	34.1	20.2	30.4#



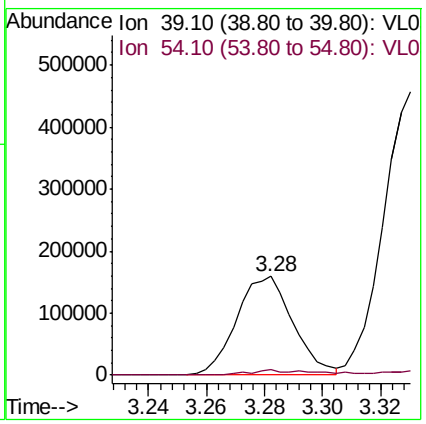


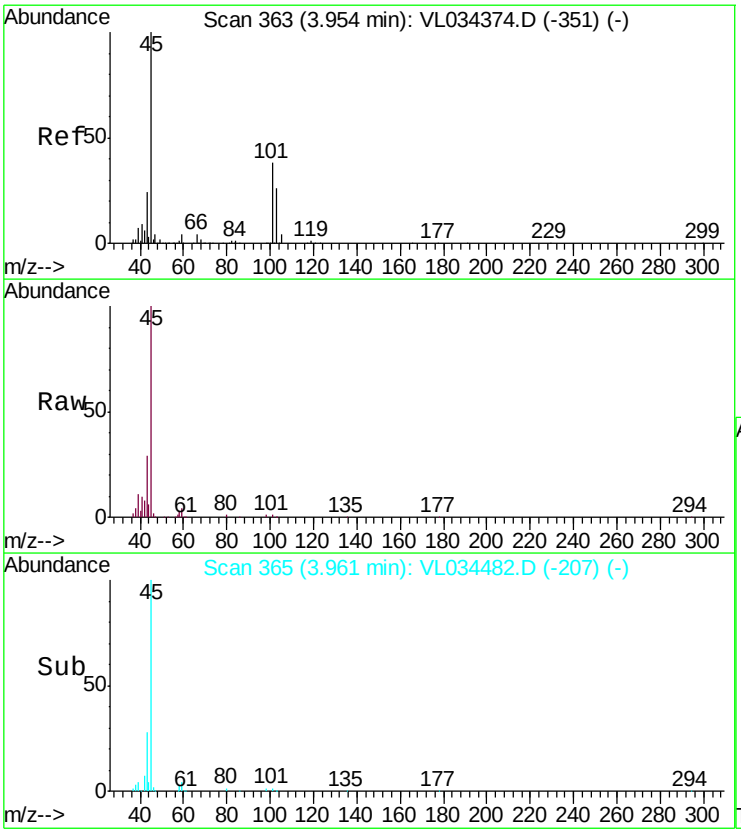
#16
1,3-Butadiene
Concen: 4.038 ppbv
RT: 3.28 min Scan# 154
Delta R.T. -0.02 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Instrument :
MSVOA_L
ClientSampleId :
1A-2

Tgt Ion: 39 Resp: 213523

Ion	Ratio	Lower	Upper
39	100		
54	6.7	64.7	97.1#

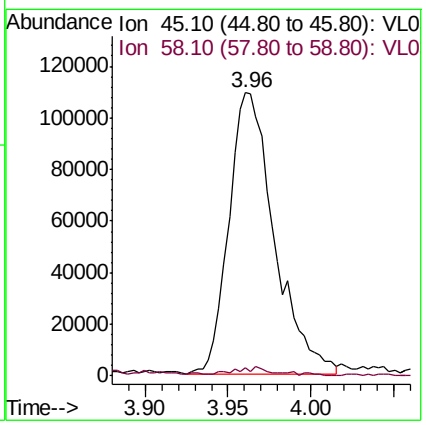


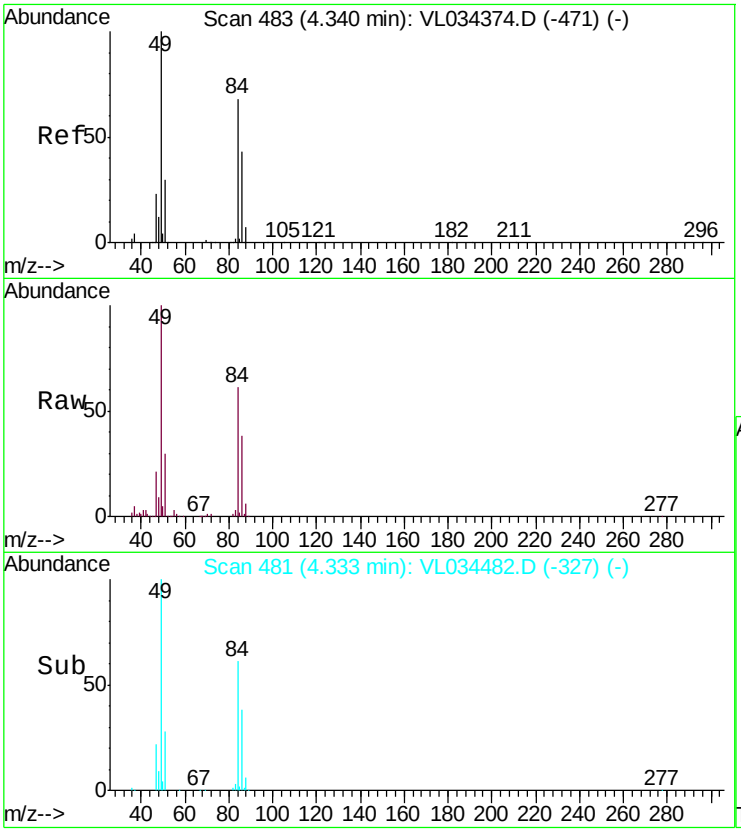


#19
Isopropyl Alcohol
Concen: 2.666 ppbv
RT: 3.96 min Scan# 365
Delta R.T. 0.01 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Tgt Ion: 45 Resp: 207397

Ion	Ratio	Lower	Upper
45	100		
58	145.8	1.3	1.9#



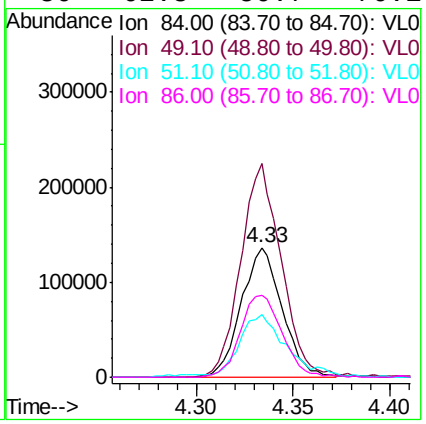


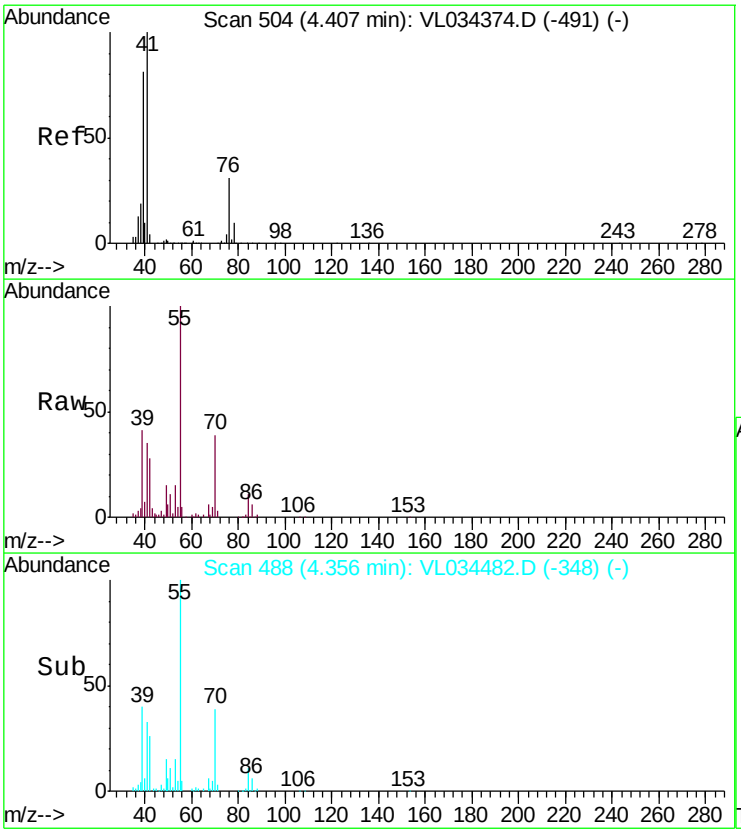
#20
Methylene Chloride
Concen: 4.632 ppbv
RT: 4.33 min Scan# 481
Delta R.T. -0.01 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Instrument : MSVOA_L
ClientSampleId : 1A-2

Tgt Ion: 84 Resp: 199390

Ion	Ratio	Lower	Upper
84	100		
49	164.2	116.8	175.2
51	47.1	35.6	53.4
86	62.8	50.7	76.1

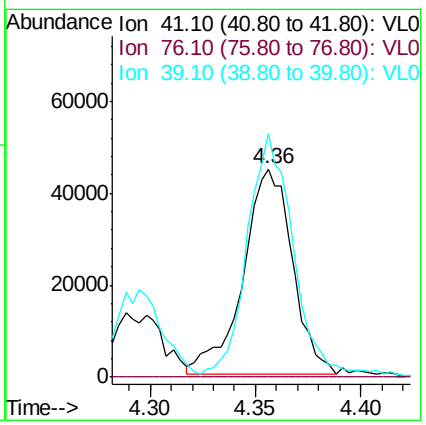


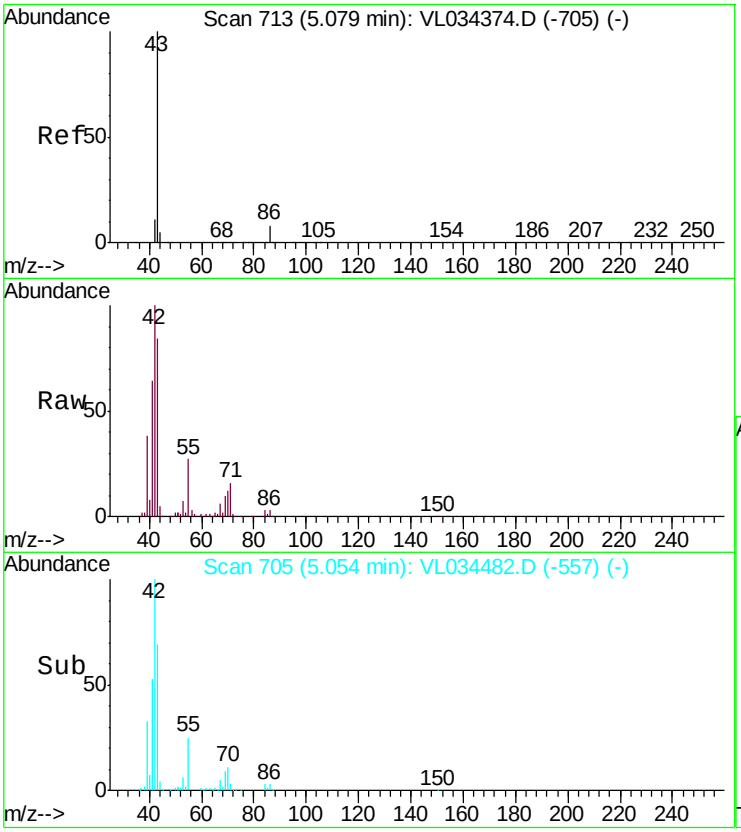


#21
Allyl Chloride
Concen: 0.994 ppbv
RT: 4.36 min Scan# 488
Delta R.T. -0.05 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Tgt Ion: 41 Resp: 72281

Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.2	36.2#
39	112.7	66.9	100.3#



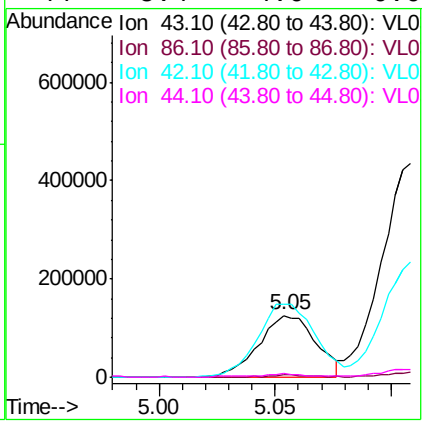


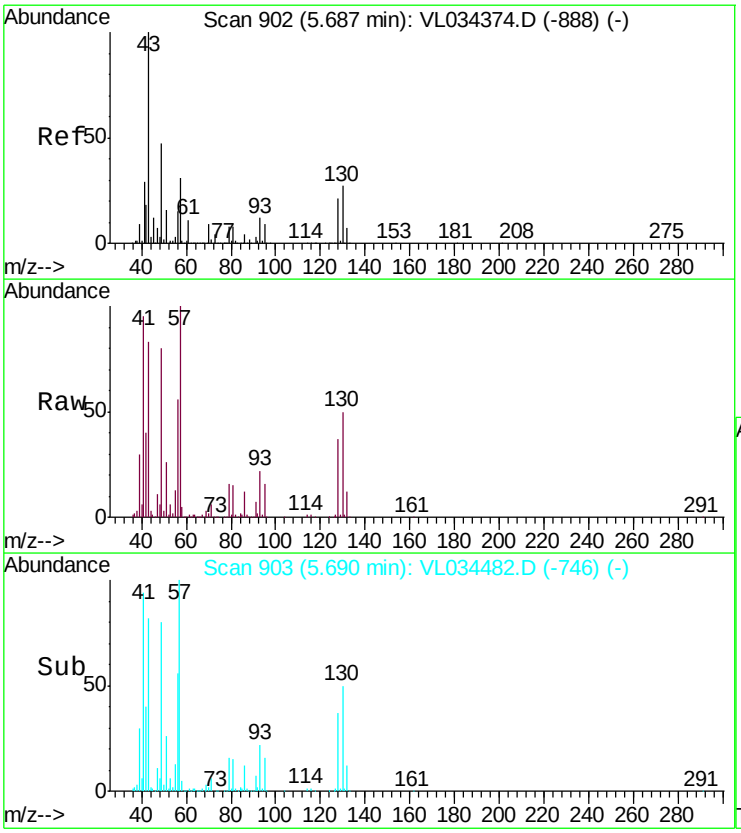
#23
Vinyl Acetate
Concen: 1.346 ppbv
RT: 5.05 min Scan# 705
Delta R.T. -0.03 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Instrument : MSVOA_L
ClientSampleId : 1A-2

Tgt Ion: 43 Resp: 213380

Ion	Ratio	Lower	Upper
43	100		
86	3.7	5.8	8.6#
42	119.3	8.9	13.3#
44	5.4	4.0	6.0

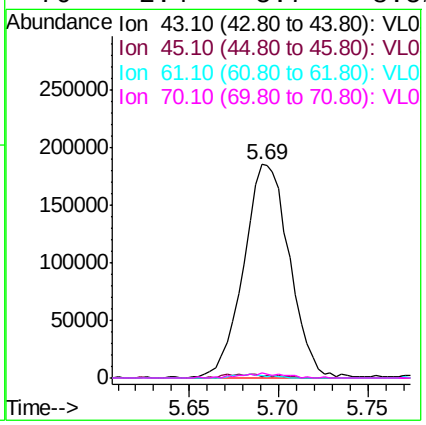


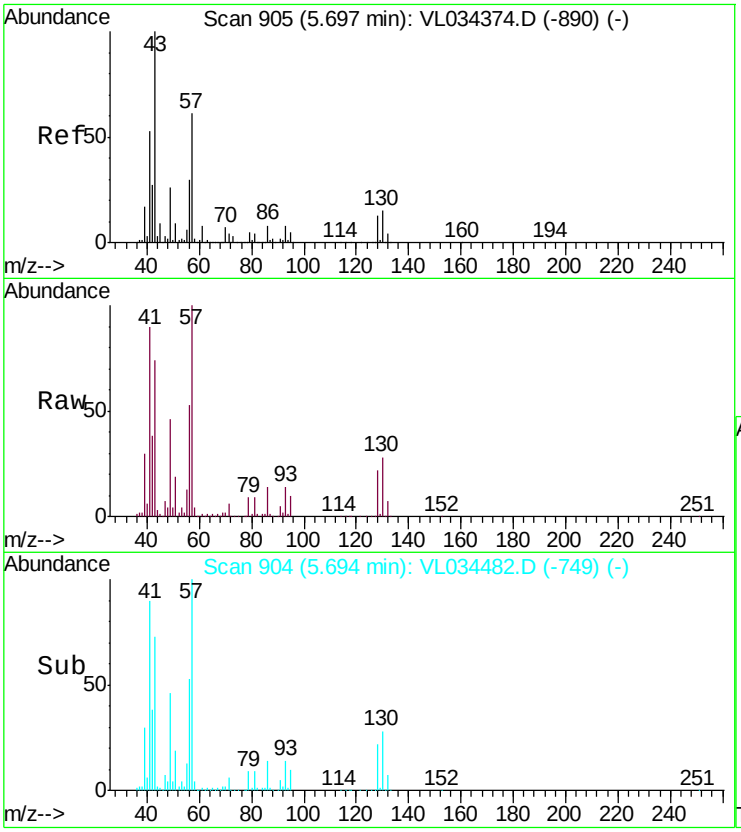


#25
Ethyl Acetate
Concen: 1.539 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.00 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Tgt Ion: 43 Resp: 333280

Ion	Ratio	Lower	Upper
43	100		
45	1.8	8.2	12.4#
61	1.3	7.5	11.3#
70	2.4	5.7	8.5#



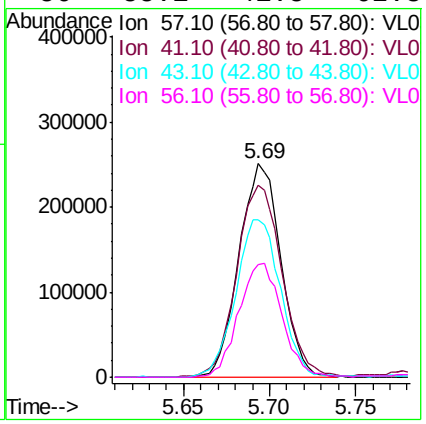


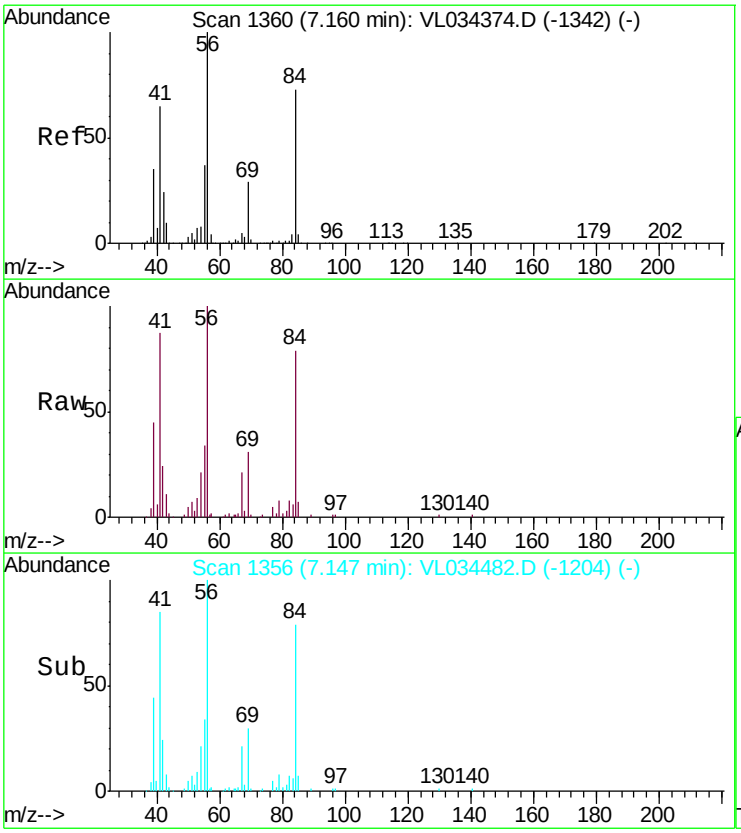
#26
Hexane
Concen: 4.552 ppbv
RT: 5.69 min Scan# 904
Delta R.T. -0.00 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Instrument : MSVOA_L
ClientSampleId : 1A-2

Tgt Ion: 57 Resp: 423633

Ion	Ratio	Lower	Upper
57	100		
41	97.6	75.0	112.4
43	79.4	186.6	279.8#
56	55.1	41.5	62.3

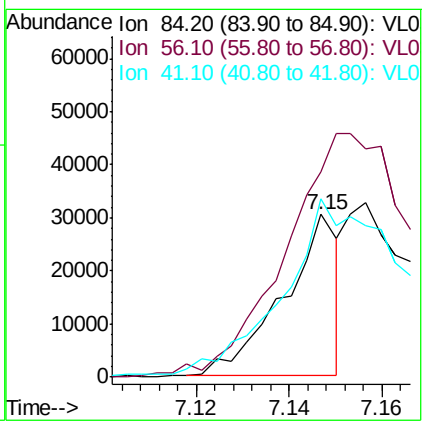


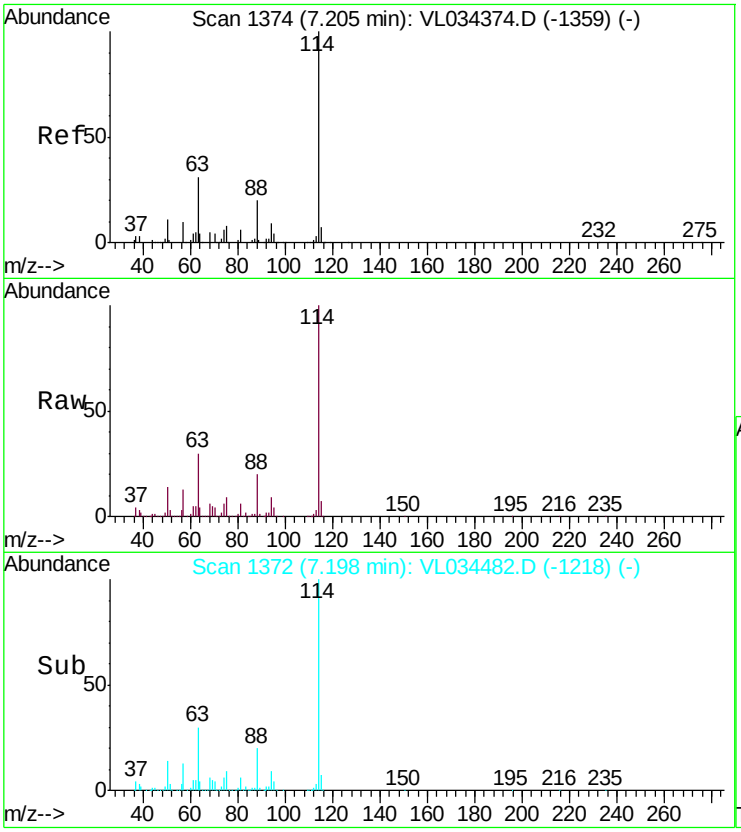


#30
Cyclohexane
Concen: 0.351 ppbv
RT: 7.15 min Scan# 1356
Delta R.T. -0.01 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Tgt Ion: 84 Resp: 24723

Ion	Ratio	Lower	Upper
84	100		
56	368.5	112.6	169.0#
41	256.5	73.4	110.2#



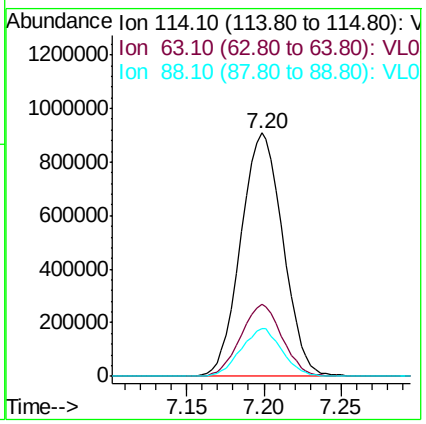


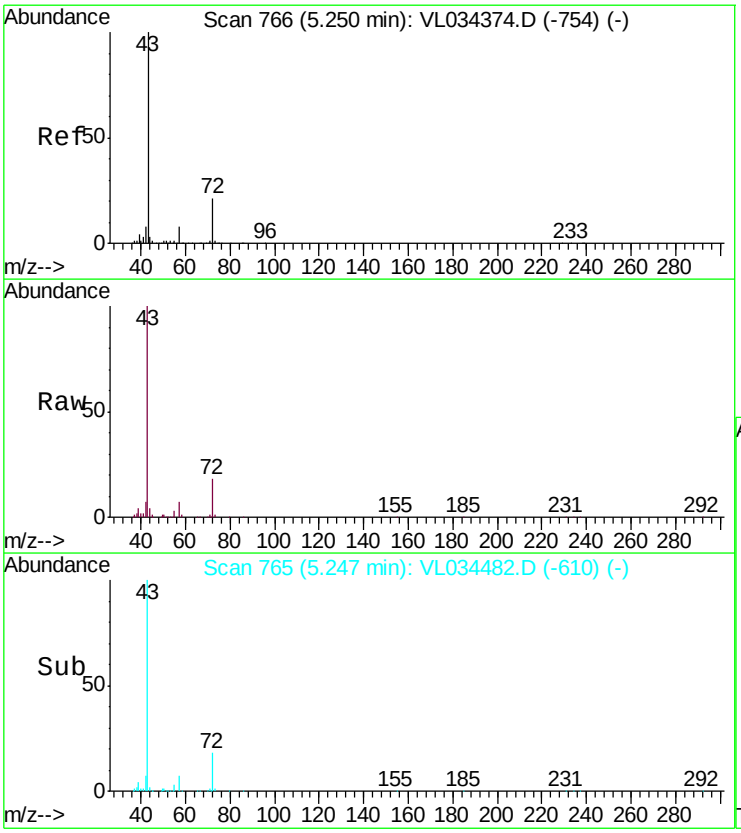
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.20 min Scan# 1372
Delta R.T. -0.01 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Instrument : MSVOA_L
ClientSampleId : 1A-2

Tgt Ion:114 Resp: 1723616

Ion	Ratio	Lower	Upper
114	100		
63	29.4	24.2	36.4
88	19.3	15.9	23.9

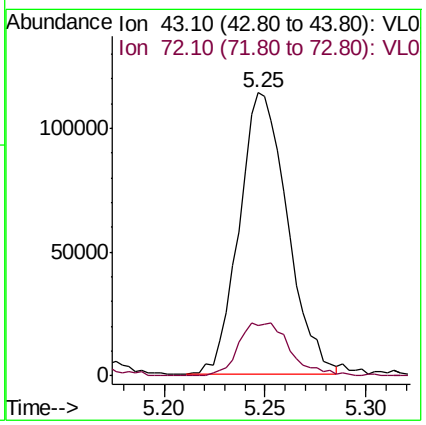


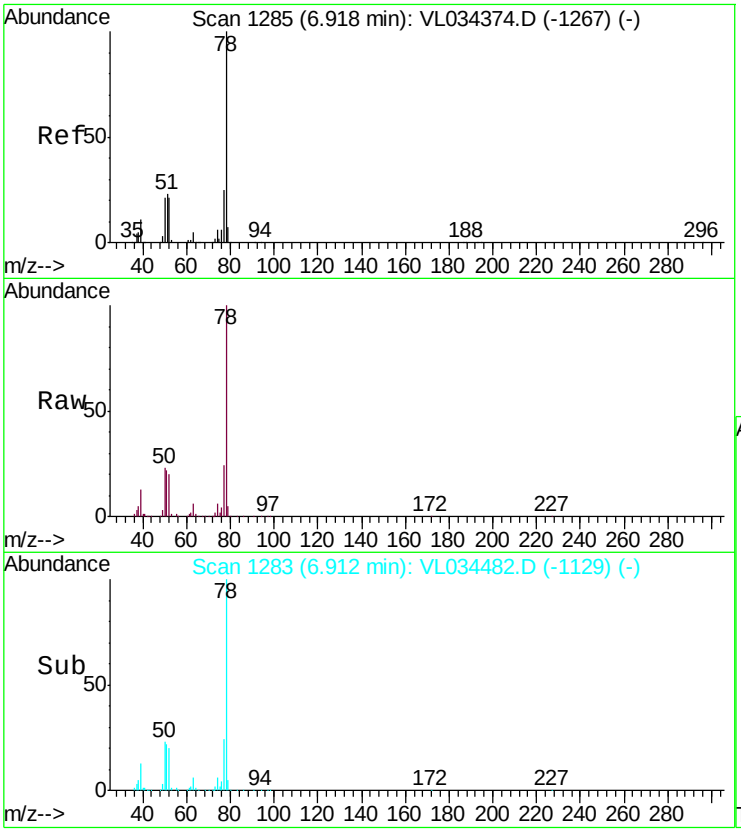


#34
2-Butanone
Concen: 1.345 ppbv
RT: 5.25 min Scan# 765
Delta R.T. -0.00 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Tgt Ion: 43 Resp: 190881

Ion	Ratio	Lower	Upper
43	100		
72	20.2	17.0	25.6



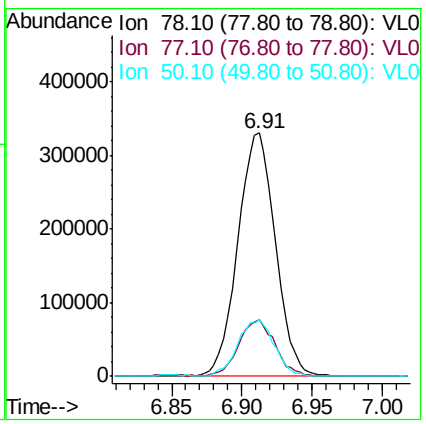


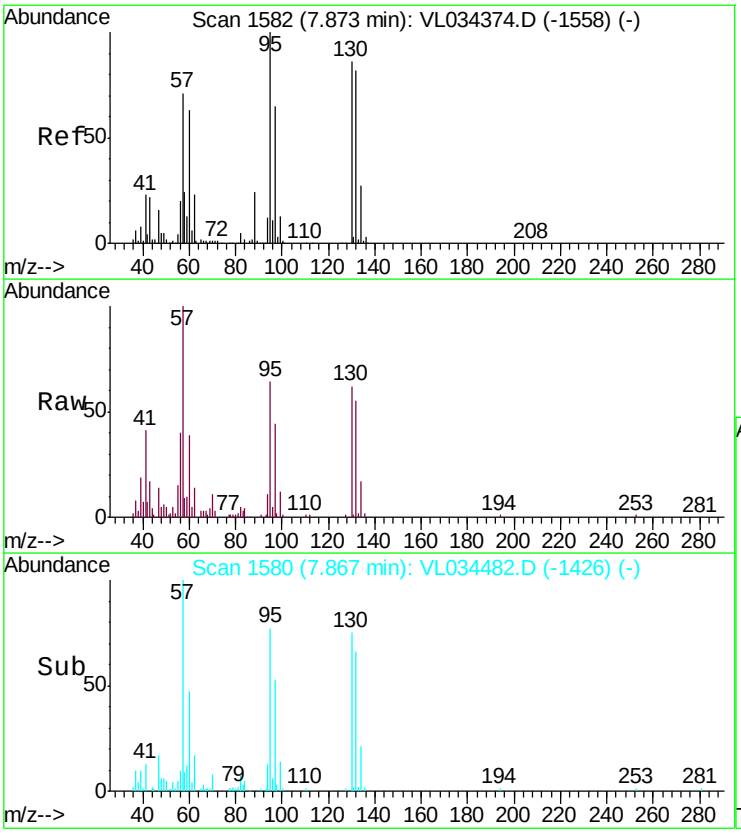
#36
Benzene
Concen: 3.578 ppbv
RT: 6.91 min Scan# 1283
Delta R.T. -0.01 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Instrument :
MSVOA_L
ClientSampleId :
1A-2

Tgt Ion: 78 Resp: 616427

Ion	Ratio	Lower	Upper
78	100		
77	23.5	20.2	30.4
50	23.4	17.1	25.7

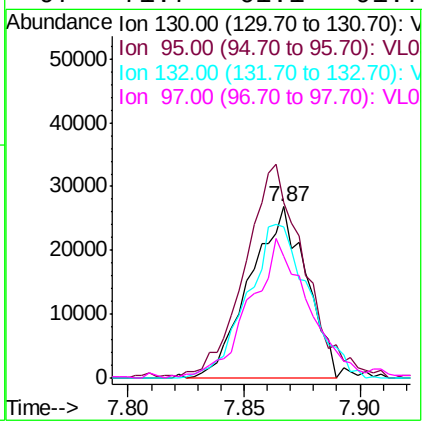


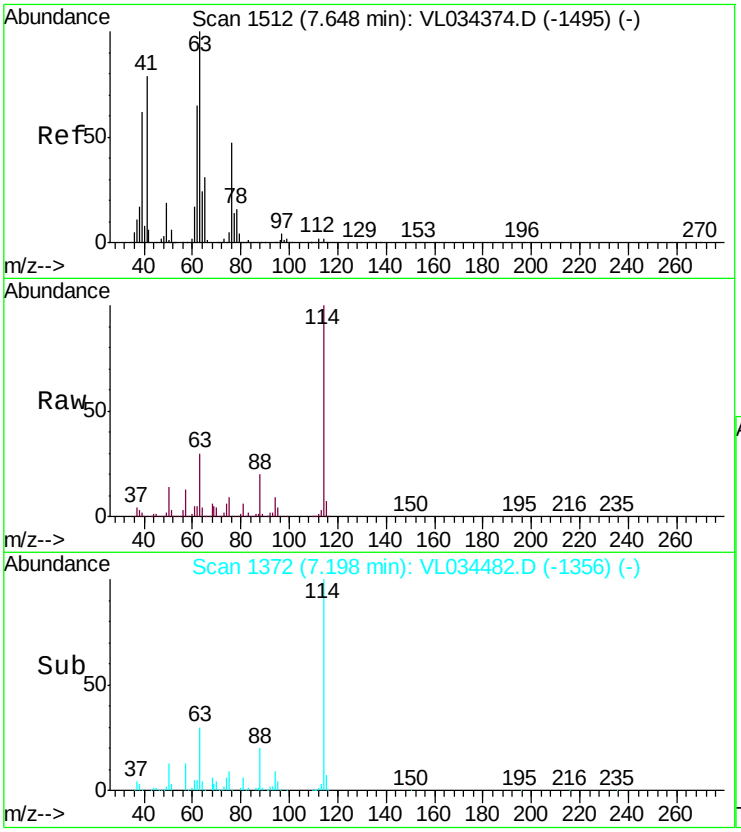


#38
Trichloroethene
Concen: 0.645 ppbv
RT: 7.87 min Scan# 1580
Delta R.T. -0.01 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Tgt Ion:130 Resp: 45631

Ion	Ratio	Lower	Upper
130	100		
95	99.1	93.4	140.0
132	87.2	76.4	114.6
97	71.7	61.1	91.7



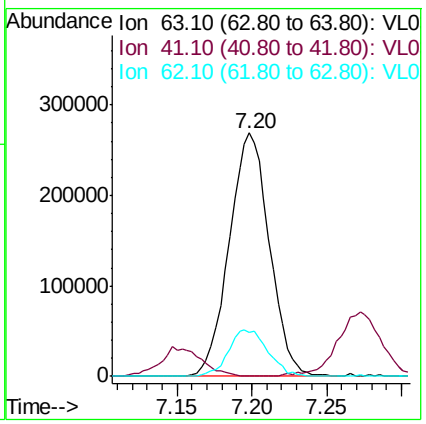


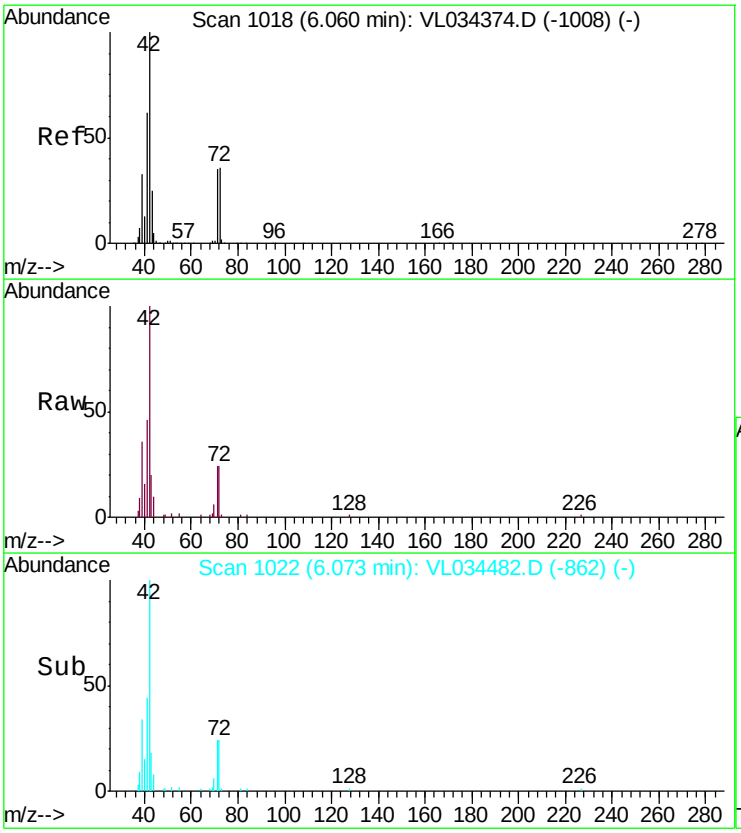
#39
1,2-Dichloropropane
Concen: 7.573 ppbv
RT: 7.20 min Scan# 1372
Delta R.T. -0.45 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Instrument : MSVOA_L
ClientSampleId : 1A-2

Tgt Ion: 63 Resp: 502706

Ion	Ratio	Lower	Upper
63	100		
41	0.0	63.1	94.7#
62	18.0	52.3	78.5#

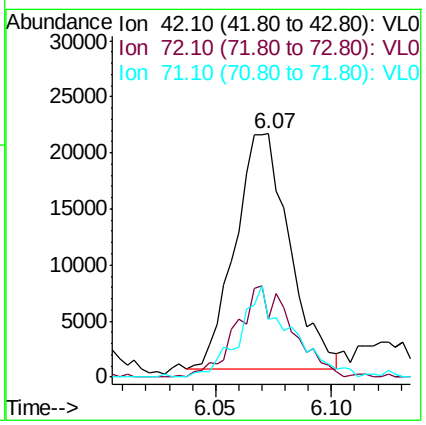


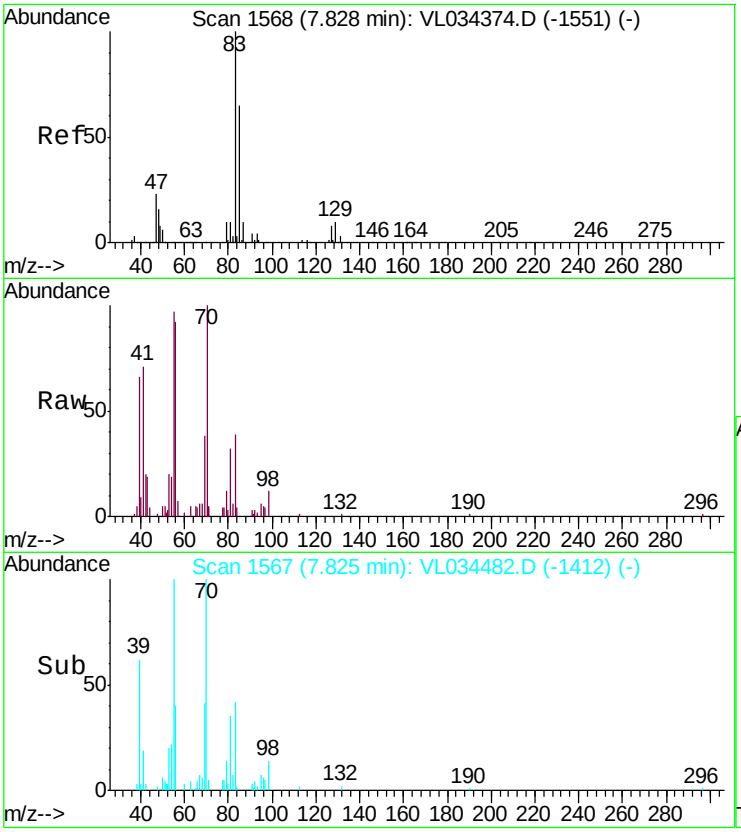


#41
Tetrahydrofuran
Concen: 0.428 ppbv
RT: 6.07 min Scan# 1022
Delta R.T. 0.01 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Tgt Ion: 42 Resp: 34063

Ion	Ratio	Lower	Upper
42	100		
72	39.8	30.2	45.4
71	37.3	29.4	44.2



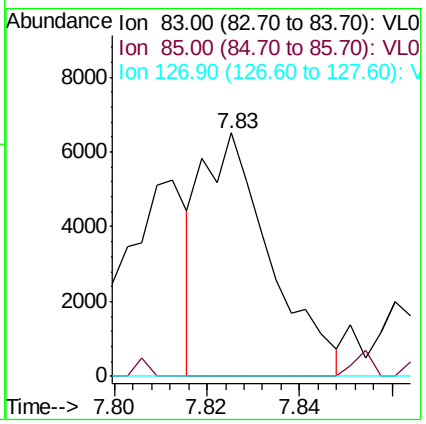


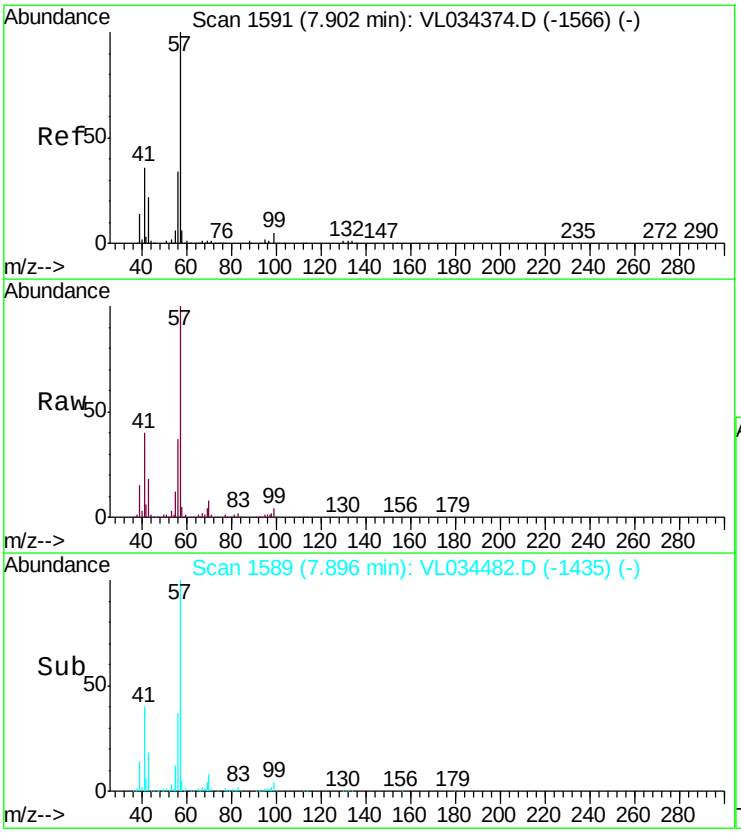
#42
Bromodichloromethane
Concen: 0.041 ppbv
RT: 7.83 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Instrument :
MSVOA_L
ClientSampleId :
1A-2

Tgt Ion: 83 Resp: 6640

Ion	Ratio	Lower	Upper
83	100		
85	0.0	52.3	78.5#
127	0.0	6.1	9.1#

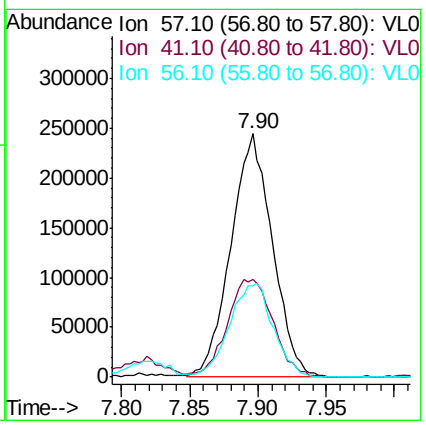


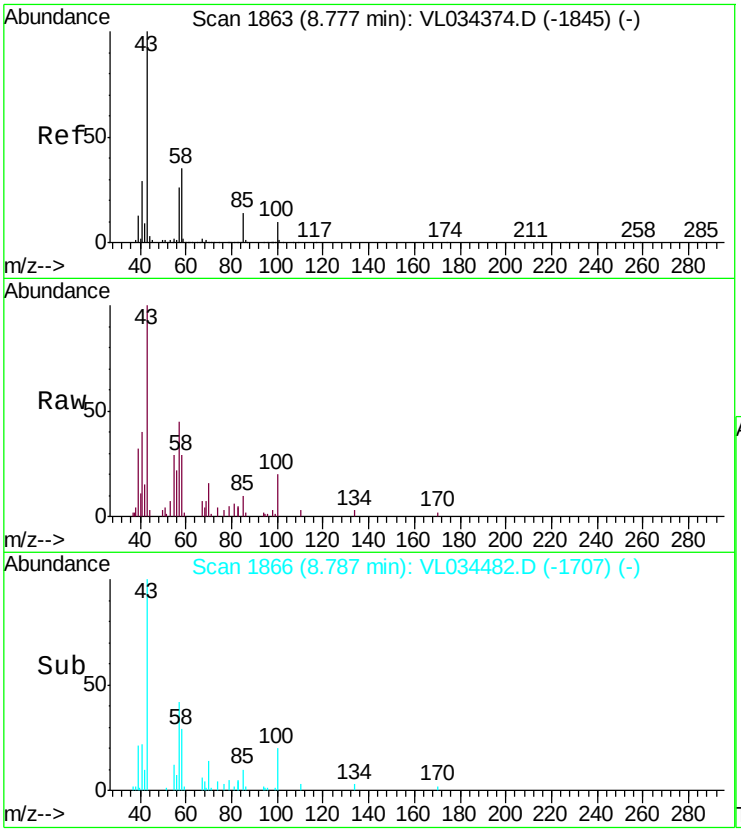


#44
2,2,4-Trimethylpentane
Concen: 1.641 ppbv
RT: 7.90 min Scan# 1589
Delta R.T. -0.01 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Tgt Ion: 57 Resp: 516761

Ion	Ratio	Lower	Upper
57	100		
41	44.6	28.6	42.8#
56	40.8	25.3	37.9#



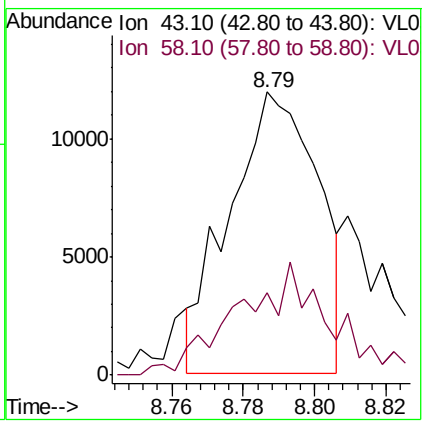


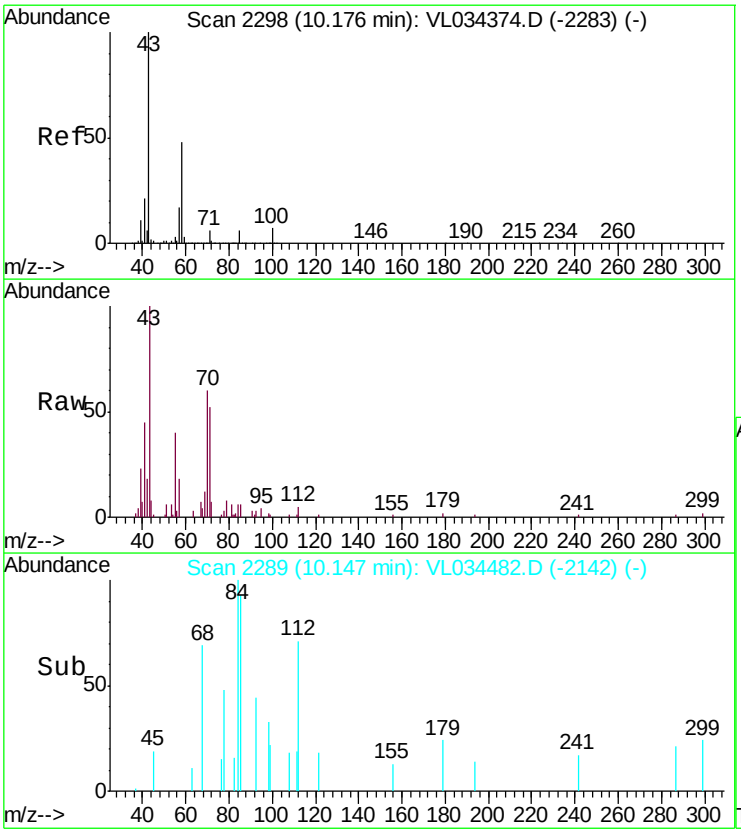
#50
4-Methyl-2-Pentanone
Concen: 0.100 ppbv
RT: 8.79 min Scan# 1866
Delta R.T. 0.01 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Instrument : MSVOA_L
ClientSampleId : 1A-2

Tgt Ion: 43 Resp: 20452

Ion	Ratio	Lower	Upper
43	100		
58	44.0	27.9	41.9#

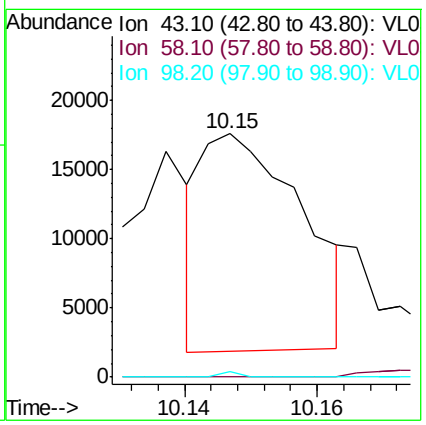


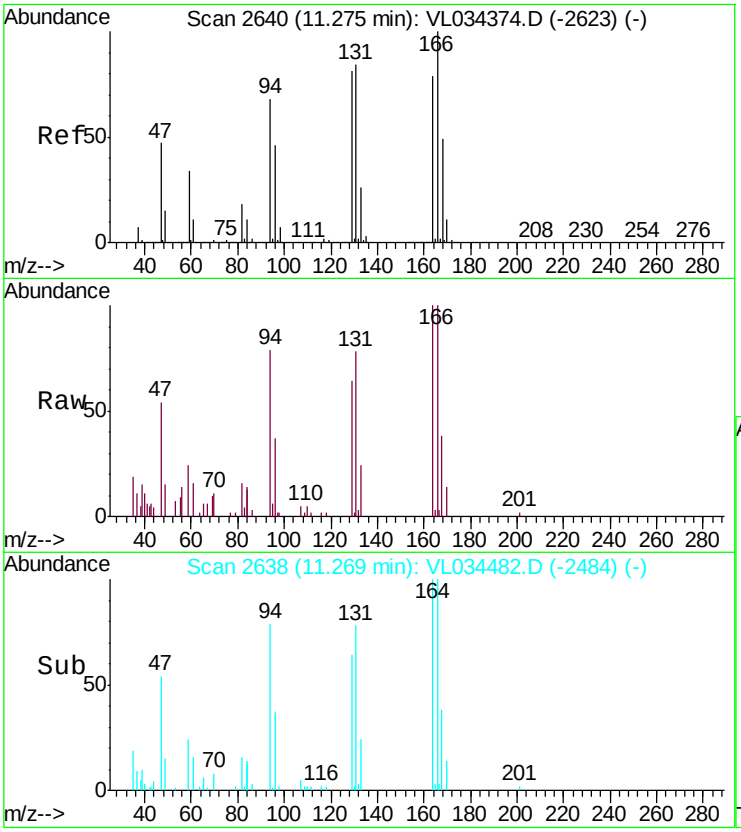


#51
2-Hexanone
Concen: 0.096 ppbv
RT: 10.15 min Scan# 2289
Delta R.T. -0.03 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Tgt Ion: 43 Resp: 16454

Ion	Ratio	Lower	Upper
43	100		
58	3.9	38.2	57.4#
98	0.0	0.2	0.2#



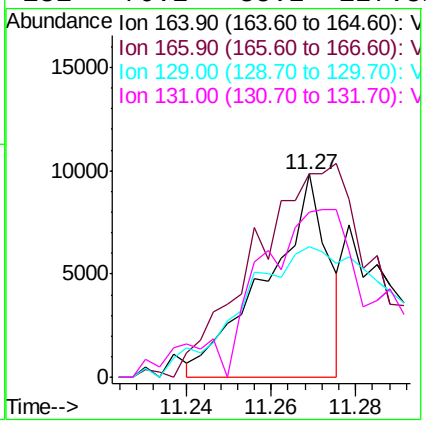


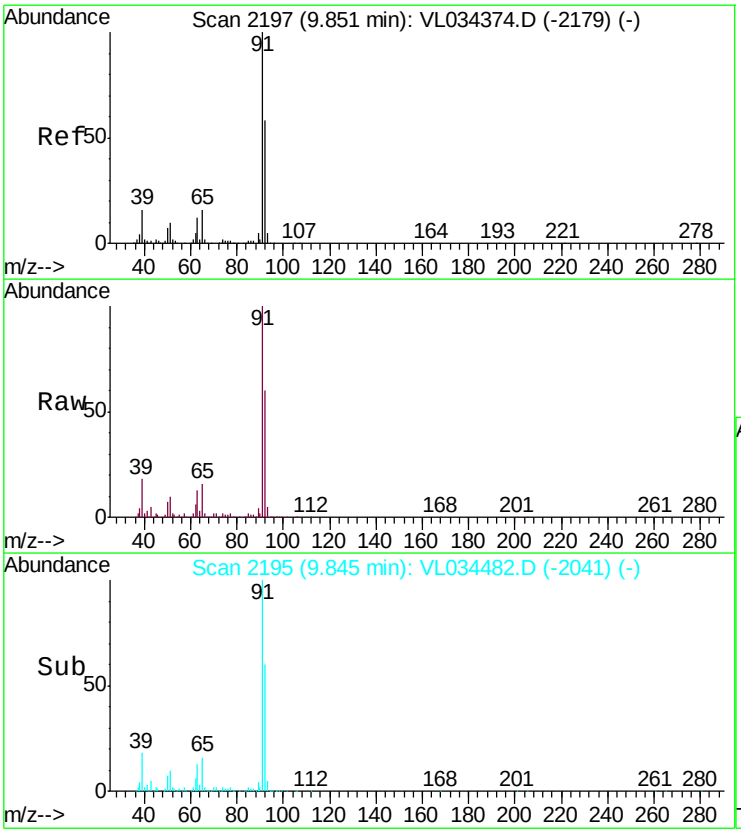
#52
Tetrachloroethene
Concen: 0.133 ppbv
RT: 11.27 min Scan# 2638
Delta R.T. -0.01 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Instrument : MSVOA_L
ClientSampleId : 1A-2

Tgt Ion:164 Resp: 9928

Ion	Ratio	Lower	Upper
164	100		
166	94.6	101.7	152.5#
129	52.9	82.6	123.8#
131	70.2	85.2	127.8#

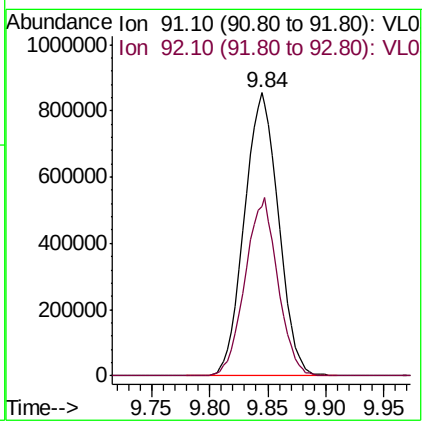


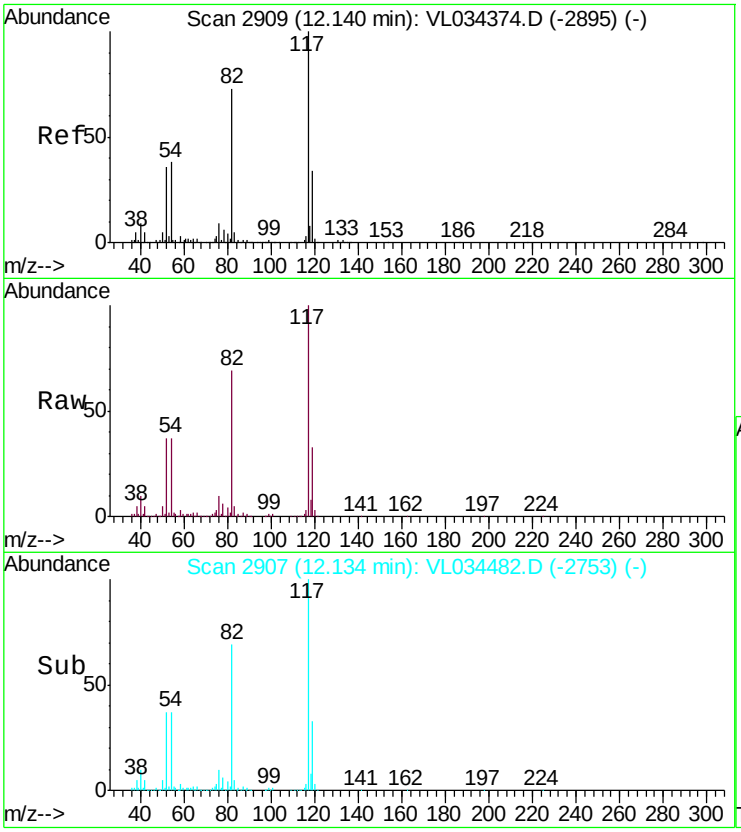


#53
Toluene
Concen: 8.955 ppbv
RT: 9.84 min Scan# 2195
Delta R.T. -0.01 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Tgt Ion: 91 Resp: 1752635

Ion	Ratio	Lower	Upper
91	100		
92	60.3	47.9	71.9



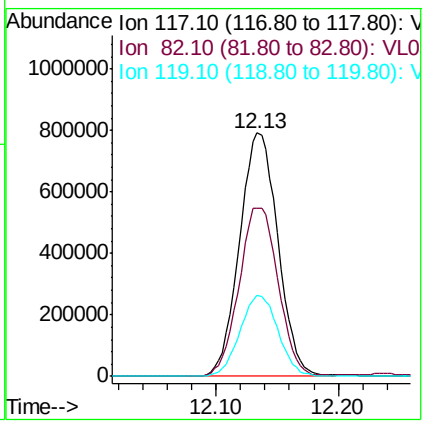


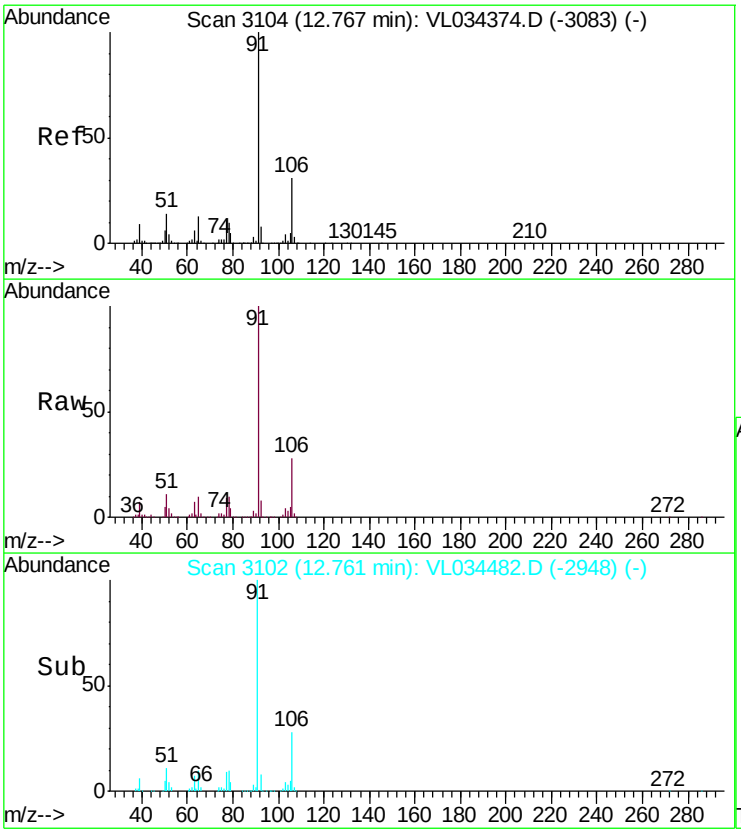
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.13 min Scan# 2907
Delta R.T. -0.01 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Instrument : MSVOA_L
ClientSampleId : 1A-2

Tgt Ion:117 Resp: 1717461

Ion	Ratio	Lower	Upper
117	100		
82	71.1	57.5	86.3
119	33.4	25.4	38.2

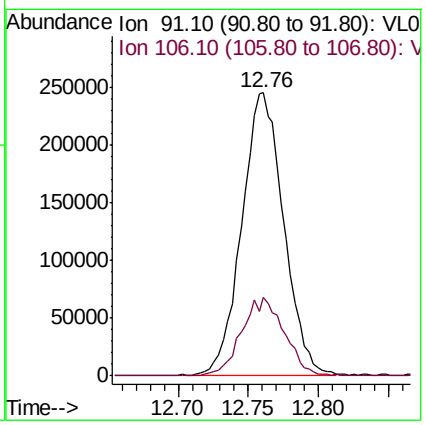


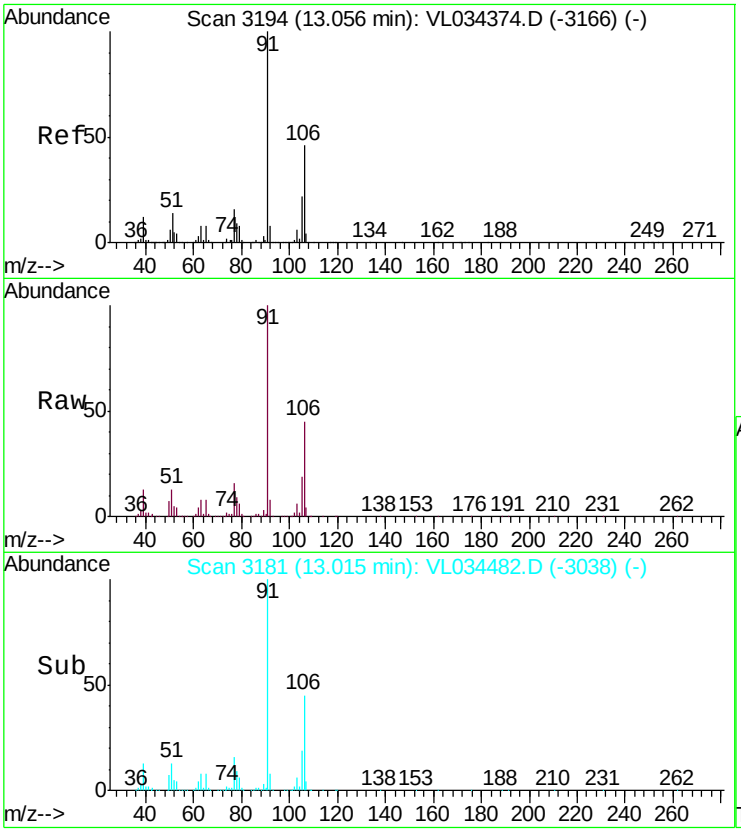


#58
Ethyl Benzene
Concen: 1.901 ppbv
RT: 12.76 min Scan# 3102
Delta R.T. -0.01 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Tgt Ion: 91 Resp: 506616

Ion	Ratio	Lower	Upper
91	100		
106	28.0	24.8	37.2



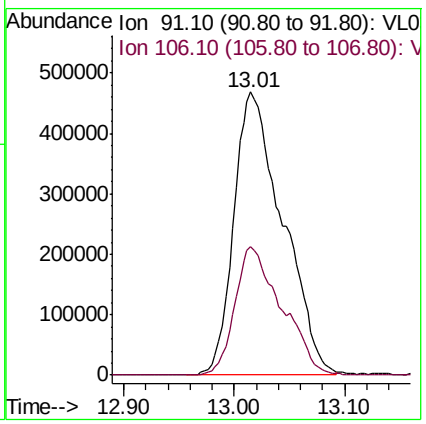


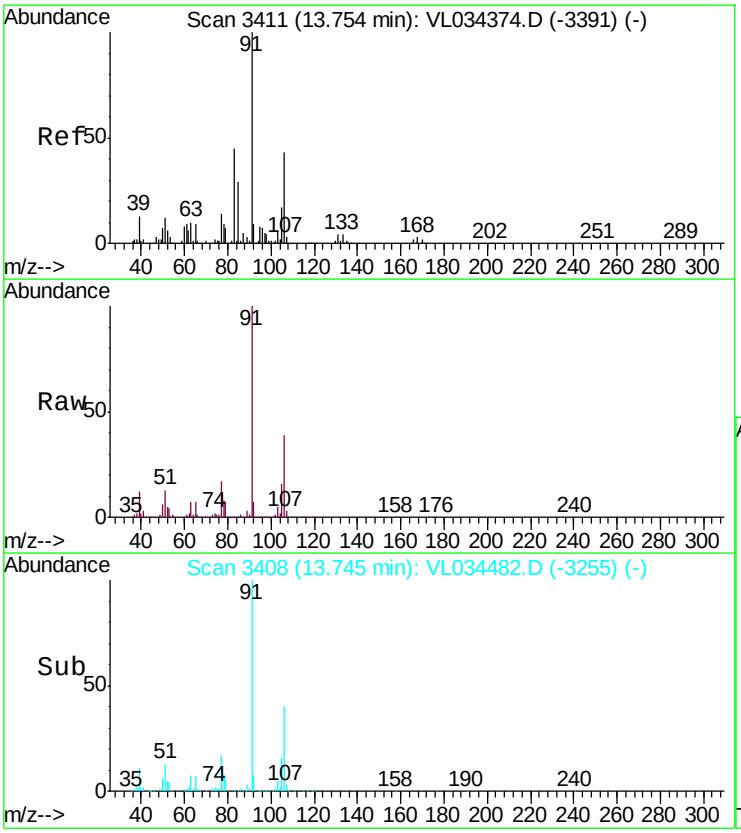
#59
m/p-Xylene
Concen: 6.234 ppbv
RT: 13.01 min Scan# 3181
Delta R.T. -0.04 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Instrument : MSVOA_L
ClientSampleId : 1A-2

Tgt Ion: 91 Resp: 1436160

Ion	Ratio	Lower	Upper
91	100		
106	43.5	34.6	51.8

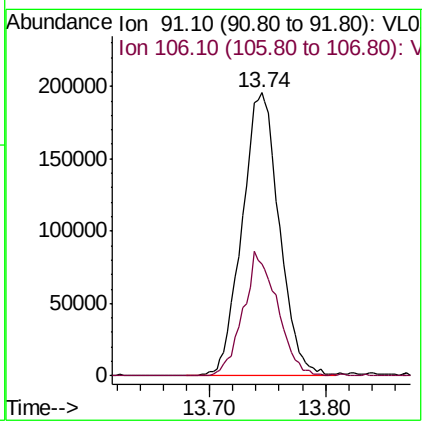


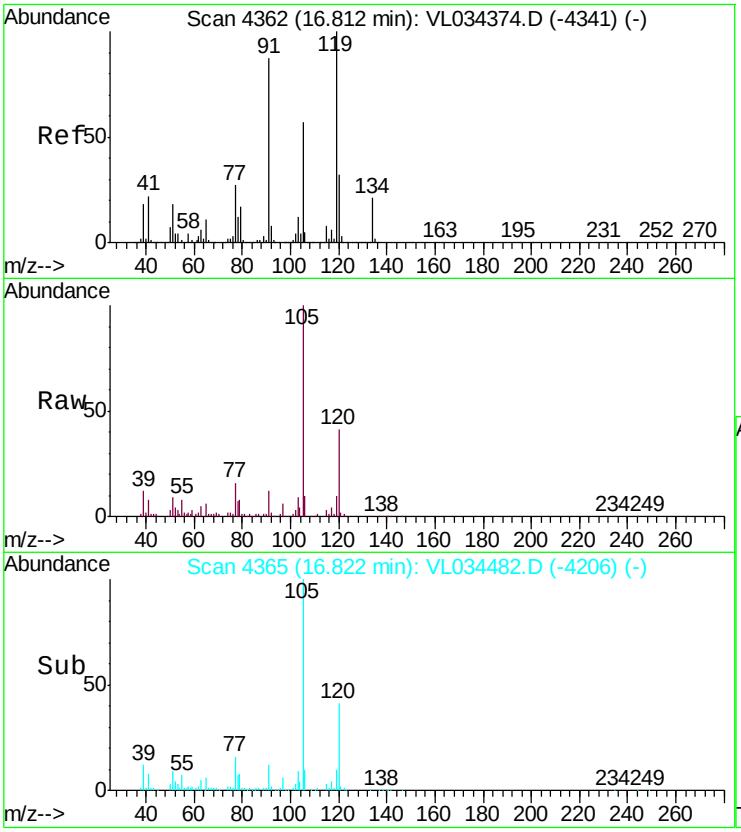


#60
o-Xylene
Concen: 1.921 ppbv
RT: 13.74 min Scan# 3408
Delta R.T. -0.01 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Tgt Ion: 91 Resp: 437500

Ion	Ratio	Lower	Upper
91	100		
106	40.5	21.3	64.0



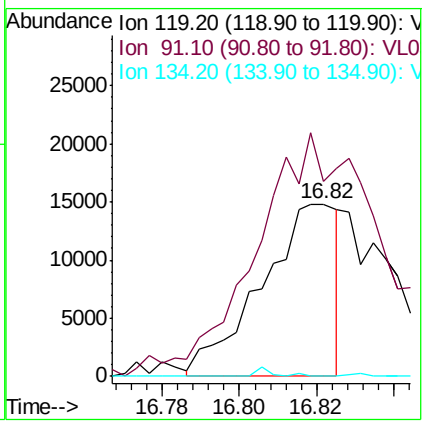


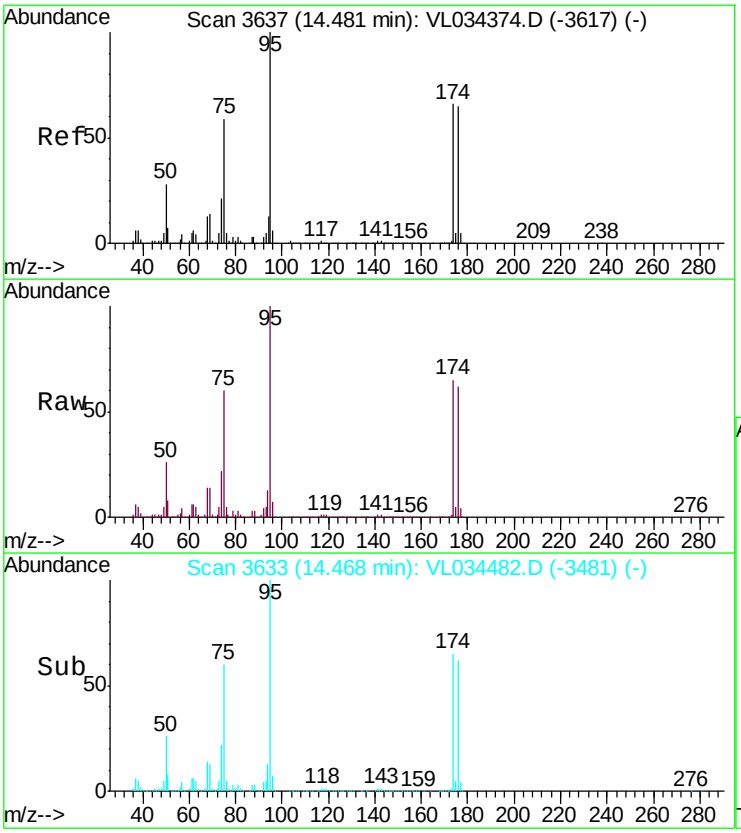
#65
tert-Butylbenzene
Concen: 0.075 ppbv
RT: 16.82 min Scan# 4365
Delta R.T. 0.01 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Instrument :
MSVOA_L
ClientSampleId :
1A-2

Tgt Ion:119 Resp: 20194

Ion	Ratio	Lower	Upper
119	100		
91	238.7	71.6	107.4#
134	1.6	15.9	23.9#

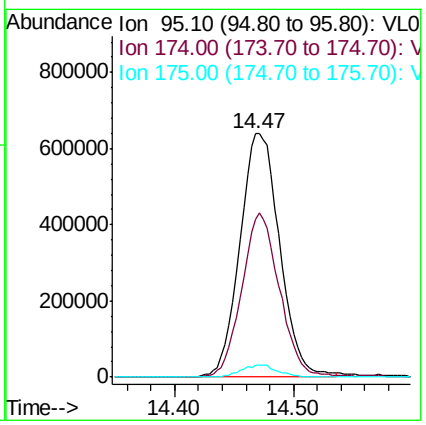


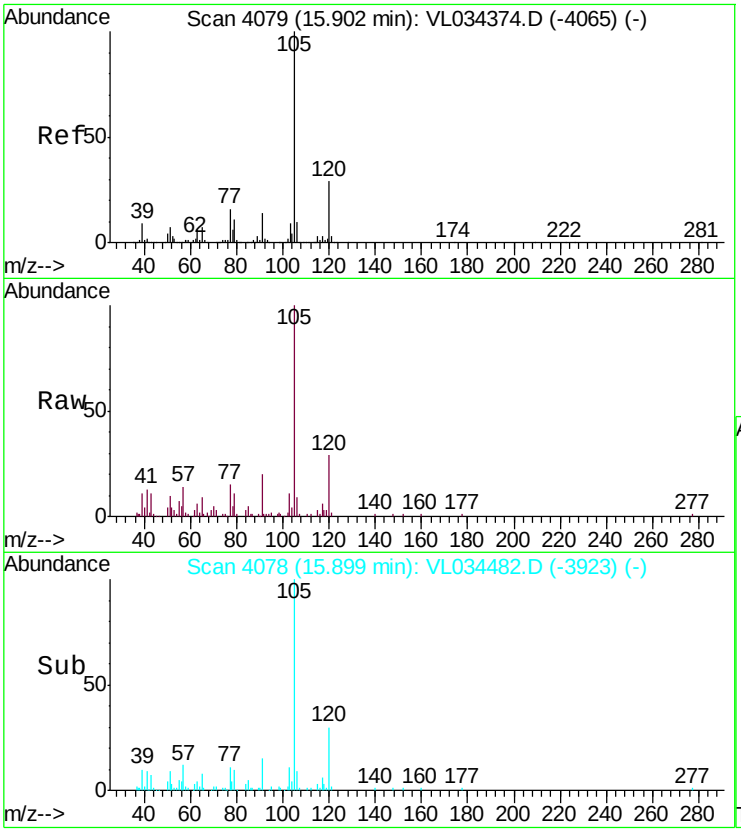


#68
1-Bromo-4-Fluorobenzene
Concen: 10.240 ppbv
RT: 14.47 min Scan# 3633
Delta R.T. -0.01 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Tgt Ion: 95 Resp: 1479486

Ion	Ratio	Lower	Upper
95	100		
174	64.2	52.2	78.2
175	4.6	3.8	5.8



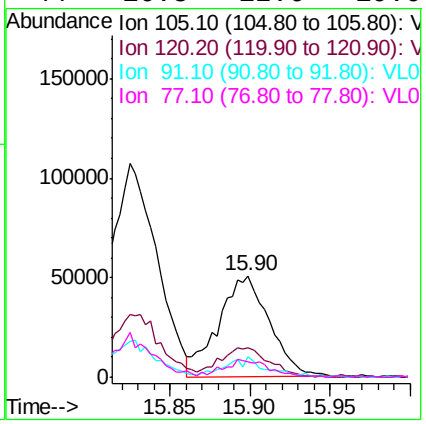


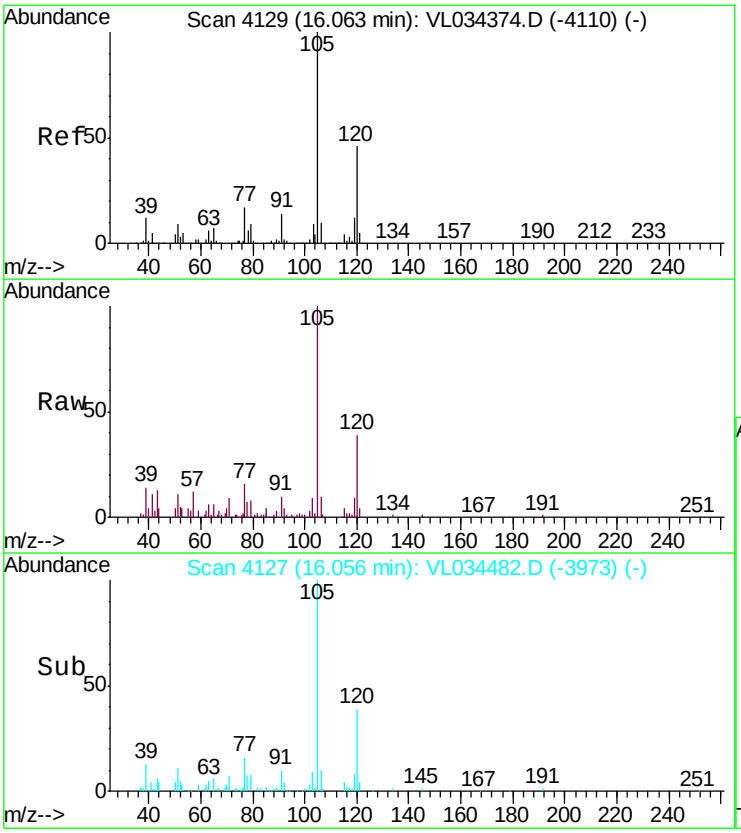
#72
4-Ethyltoluene
Concen: 0.420 ppbv
RT: 15.90 min Scan# 4078
Delta R.T. -0.00 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Instrument :
MSVOA_L
ClientSampleId :
1A-2

Tgt Ion:105 Resp: 110459

Ion	Ratio	Lower	Upper
105	100		
120	29.1	23.5	35.3
91	16.6	11.4	17.0
77	16.8	12.6	19.0

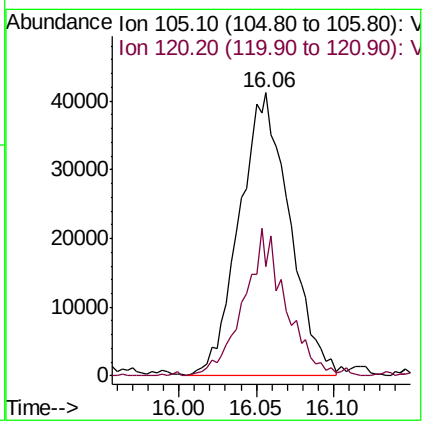


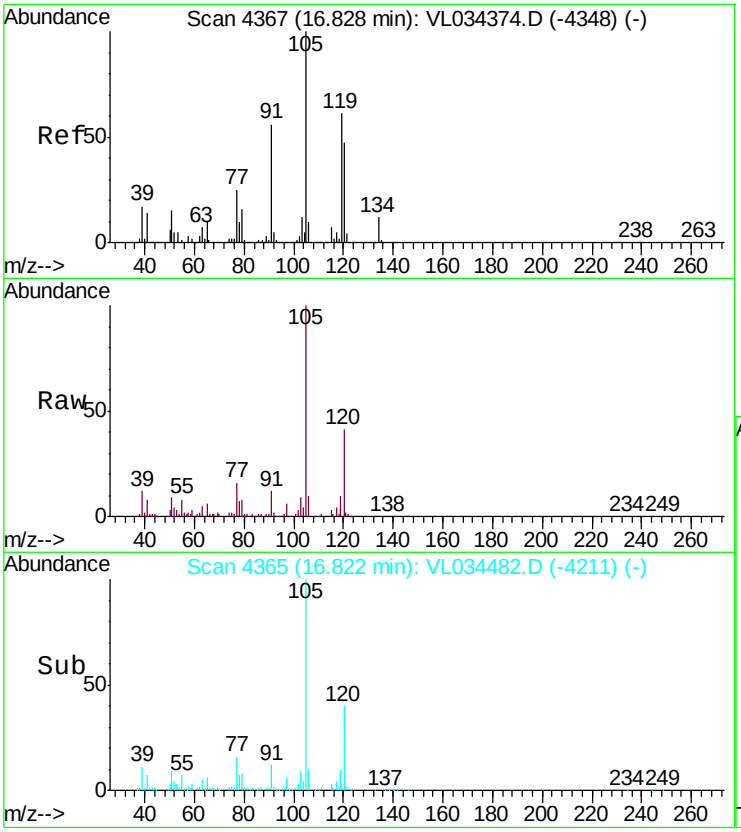


#73
1,3,5-Trimethylbenzene
Concen: 0.360 ppbv
RT: 16.06 min Scan# 4127
Delta R.T. -0.01 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Tgt Ion:105 Resp: 92861

Ion	Ratio	Lower	Upper
105	100		
120	38.2	37.1	55.7





#74
1,2,4-Trimethylbenzene
Concen: 1.170 ppbv
RT: 16.82 min Scan# 4365
Delta R.T. -0.01 min
Lab File: VL034482.D
Acq: 10 Dec 2019 2:47

Instrument :
MSVOA_L
ClientSampleId :
1A-2

Tgt Ion:105 Resp: 320108

Ion	Ratio	Lower	Upper
105	100		
120	42.8	37.4	56.0
91	11.3	46.3	69.5#
77	16.0	20.6	30.8#