Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL090518\
Data File : VL032470.D
Acq On : 6 Sep 2018 00:32
Operator : SY/AP
Sample : J4805-02 4XDUP
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : VP-2DUP

Quant Time: Sep 06 05:02:04 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL083118AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 31 21:33:46 2018
QLast Update : Fri Aug 31 21:33:46 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	5.80	49	1636469	10.00	ppbv		0.00
33) 1,4-Difluorobenzene	7.34	114	3144800	10.00	ppbv		0.00
55) Chlorobenzene-d5	12.29	117	3187723	10.00	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	14.63	95	2423625	10.24	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.40%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.10	85	18369	0.088	ppbv		89
3) Chlorodifluoromethane	3.04	51	23089	0.156	ppbv	#	92
4) Chloromethane	3.20	50	57220	0.638	ppbv		97
7) Chloroethane	3.63	64	4234	0.138	ppbv	#	67
9) Propene	3.06	41	1109466	18.567	ppbv		95
10) Heptane	8.29	43	88438	0.413	ppbv		99
11) Trichlorofluoromethane	4.04	101	9948	0.053	ppbv		96
13) Ethanol	3.68	45	512654	27.523	ppbv		99
15) Acetone	3.93	43	1290254	8.755	ppbv	#	57
16) 1,3-Butadiene	3.37	39	715353	10.316	ppbv	#	12
17) tert-Butyl alcohol	4.40	59	120565	5.316	ppbv	#	100
19) Isopropyl Alcohol	4.06	45	31638	0.327	ppbv	#	1
20) Methylene Chloride	4.44	84	85262	1.517	ppbv		96
21) Allyl Chloride	4.50	41	5450	0.056	ppbv	#	1
23) Vinyl Acetate	5.18	43	800923	3.279	ppbv	#	77
25) Ethyl Acetate	5.82	43	131396	0.378	ppbv	#	86
26) Hexane	5.82	57	239554	1.537	ppbv	#	48
27) Carbon Disulfide	4.66	76	379096	2.635	ppbv		97
29) Chloroform	5.89	83	393768	1.657	ppbv		98
30) Cyclohexane	7.29	84	17623	0.154	ppbv	#	10
32) 1,1,1-Trichloroethane	6.66	97	117531	0.531	ppbv		99
34) 2-Butanone	5.36	43	4980600	23.843	ppbv		99
36) Benzene	7.05	78	173548	0.648	ppbv		98
38) Trichloroethene	8.01	130	1025471	10.087	ppbv		98
39) 1,2-Dichloropropane	7.34	63	835717	7.299	ppbv	#	29
41) Tetrahydrofuran	6.20	42	45784	0.403	ppbv		92
50) 4-Methyl-2-Pentanone	8.92	43	81968	0.260	ppbv		94
51) 2-Hexanone	10.31	43	875253	4.318	ppbv	#	99
52) Tetrachloroethene	11.42	164	25525	0.308	ppbv		89
53) Toluene	10.00	91	303803	1.086	ppbv		99
58) Ethyl Benzene	12.91	91	42079	0.110	ppbv		94
59) m/p-Xylene	13.19	91	11448	0.034	ppbv	#	31
60) o-Xylene	13.90	91	42185	0.126	ppbv		82
73) 1,3,5-Trimethylbenzene	16.20	105	12020	0.033	ppbv	#	60
74) 1,2,4-Trimethylbenzene	16.98	105	40562	0.102	ppbv	#	71
79) Naphthalene	22.47	128	1673522	5.151	ppbv		99
80) Naphthalene,2-methyl-	25.15	142	622444	7.201	ppbv		100

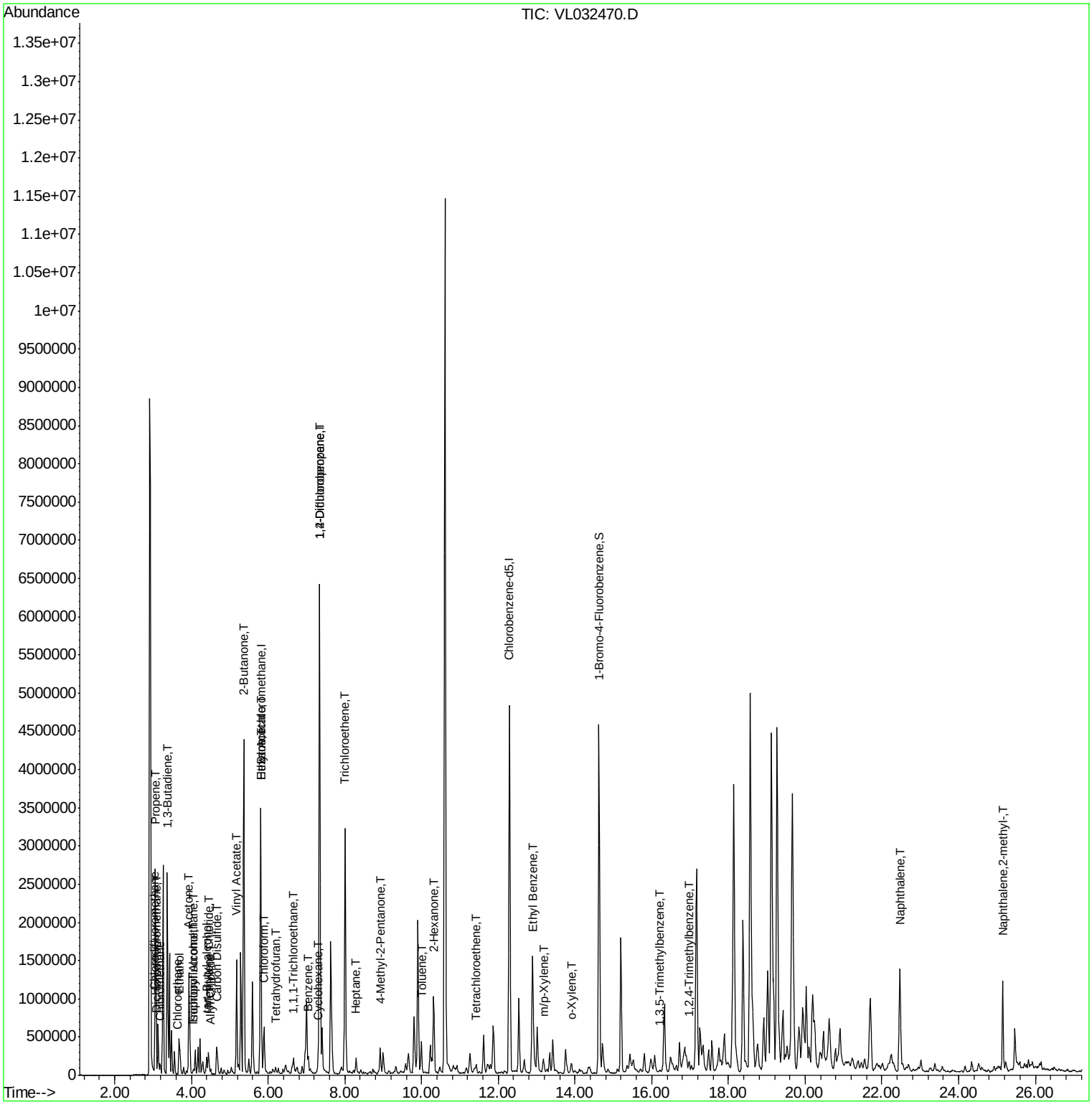
(#) = qualifier out of range (m) = manual integration (+) = signals summed

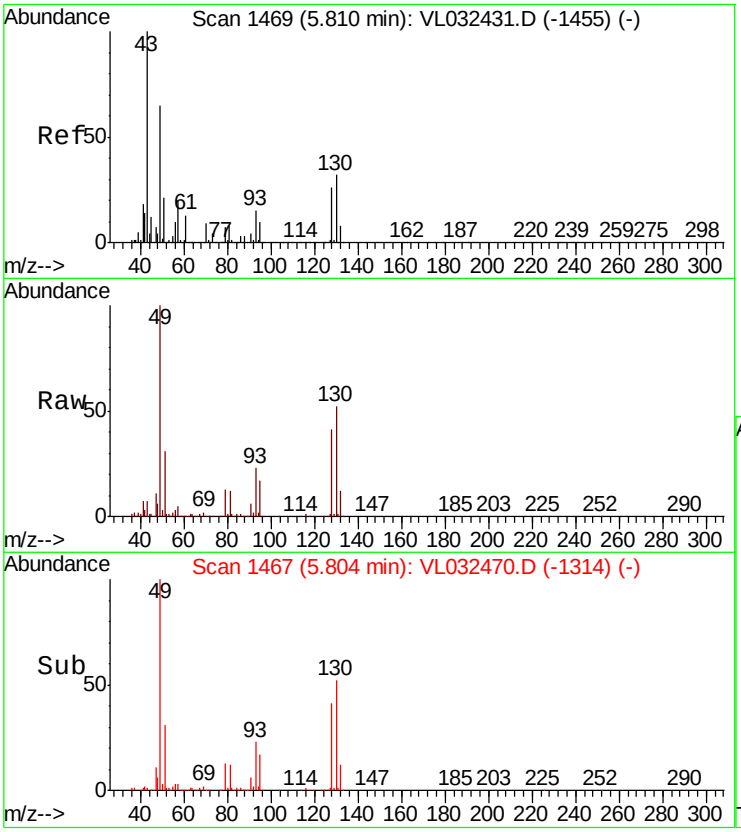
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL090518\
Data File : VL032470.D
Acq On : 6 Sep 2018 00:32
Operator : SY/AP
Sample : J4805-02 4XDUP
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : VP-2DUP

Quant Time: Sep 06 05:02:04 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL083118AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 31 21:33:46 2018
QLast Update : Fri Aug 31 21:33:46 2018
Response via : Initial Calibration



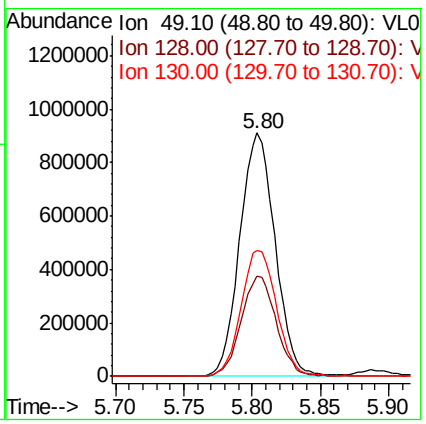


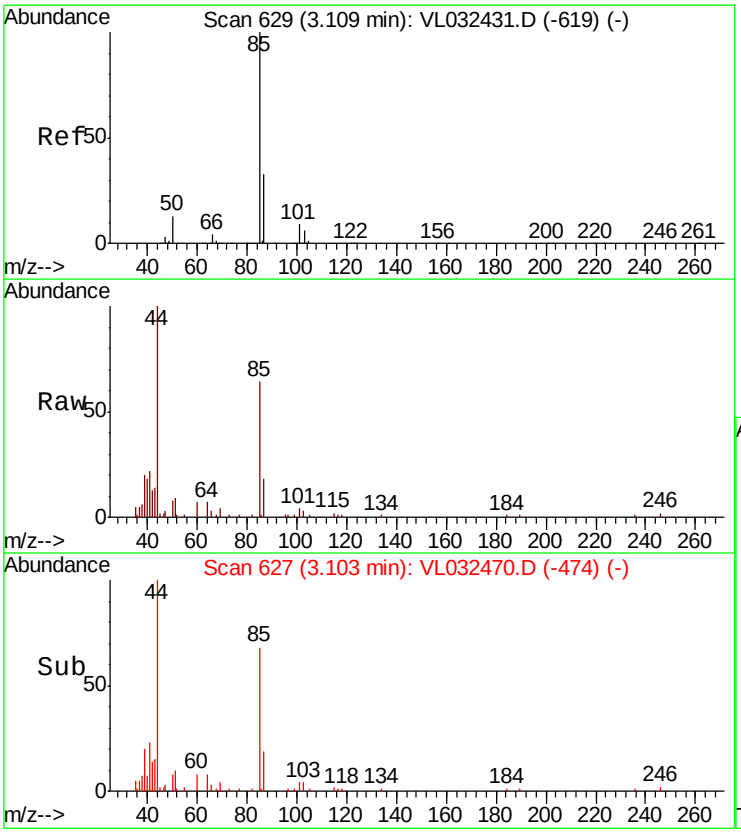
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.80 min Scan# 1467
Delta R.T. -0.01 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Instrument :
MSVOA_L
ClientSampleId :
VP-2DUP

Tgt Ion: 49 Resp: 1636469

Ion	Ratio	Lower	Upper
49	100		
128	41.2	20.7	62.1
130	52.8	26.6	79.7

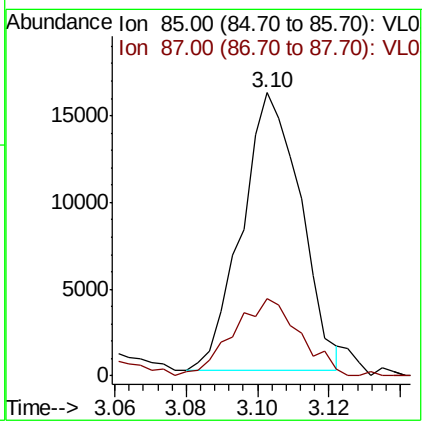


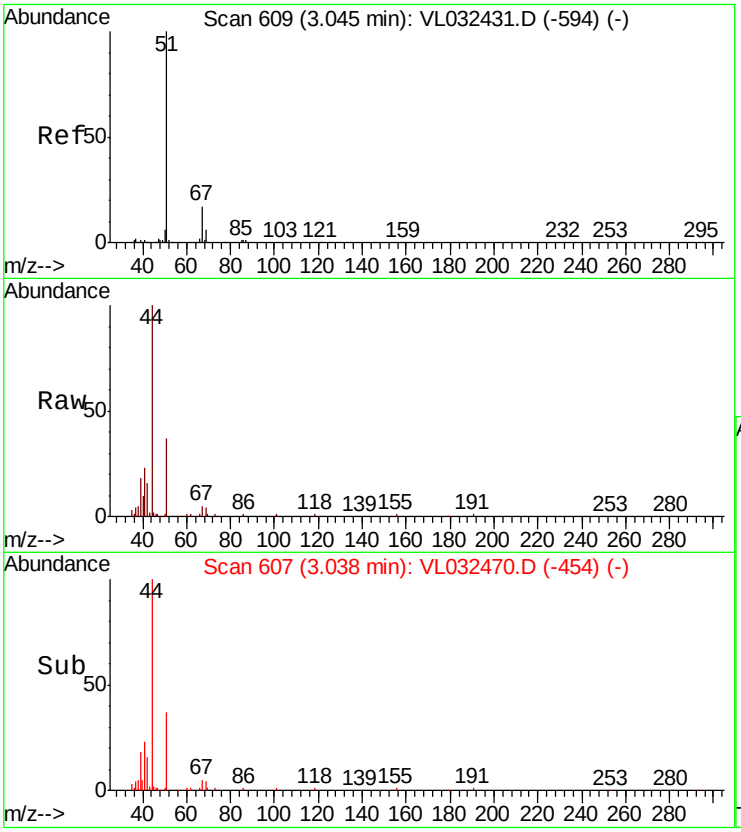


#2
Dichlorodifluoromethane
Concen: 0.088 ppbv
RT: 3.10 min Scan# 627
Delta R.T. -0.01 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Tgt Ion: 85 Resp: 18369

Ion	Ratio	Lower	Upper
85	100		
87	26.6	26.2	39.4



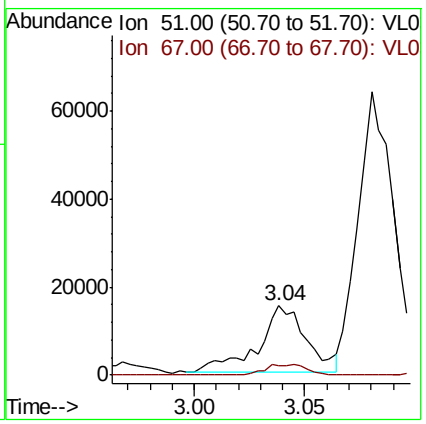


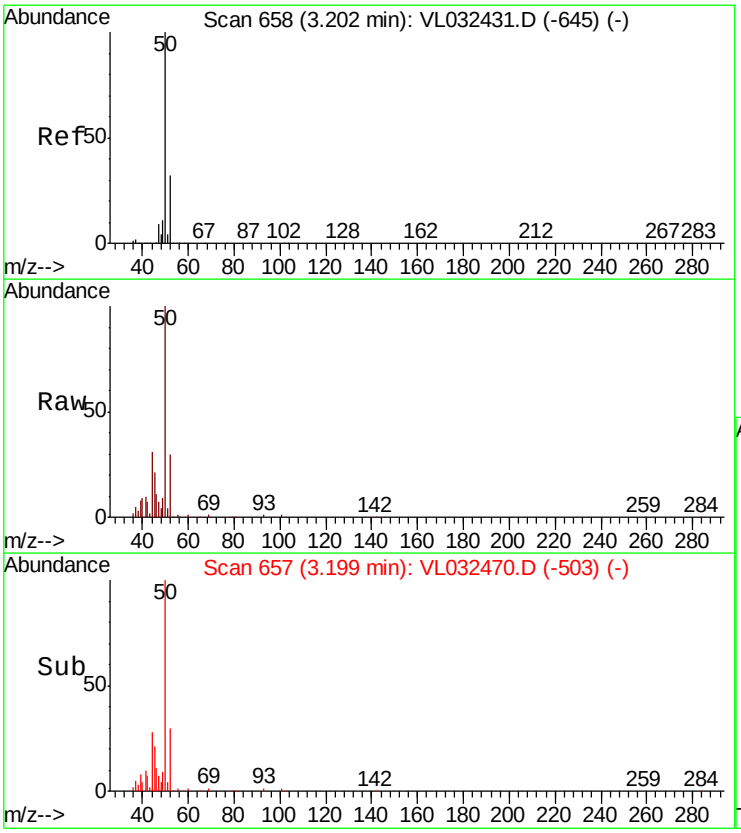
#3
Chlorodifluoromethane
Concen: 0.156 ppbv
RT: 3.04 min Scan# 607
Delta R.T. -0.01 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Instrument :
MSVOA_L
ClientSampleId :
VP-2DUP

Tgt Ion: 51 Resp: 23089

Ion	Ratio	Lower	Upper
51	100		
67	13.6	13.8	20.8#

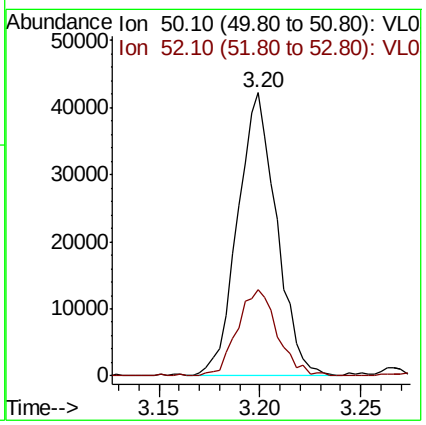


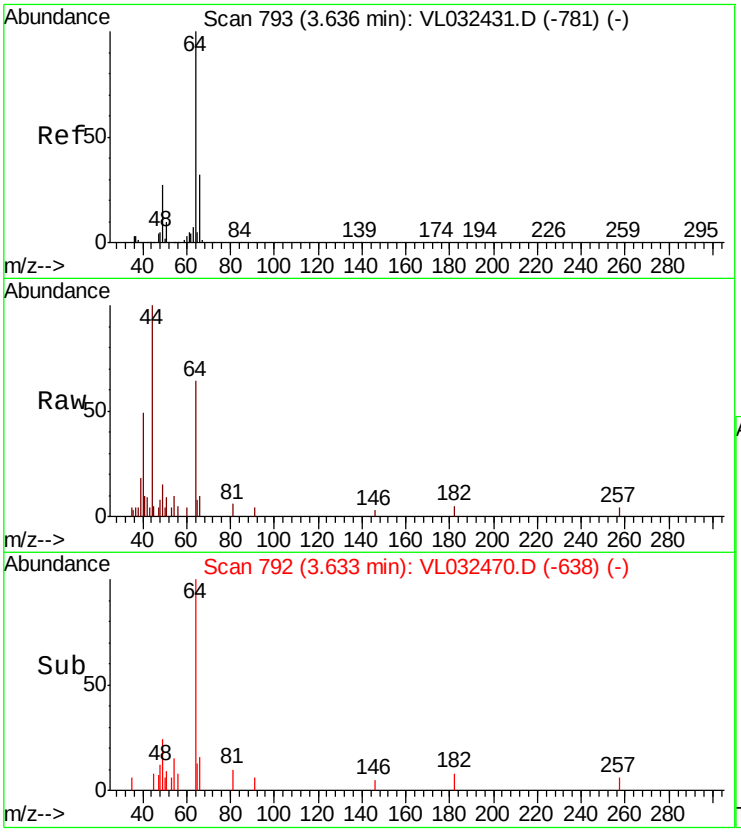


#4
Chloromethane
Concen: 0.638 ppbv
RT: 3.20 min Scan# 657
Delta R.T. -0.00 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Tgt Ion: 50 Resp: 57220

Ion	Ratio	Lower	Upper
50	100		
52	30.4	25.6	38.4



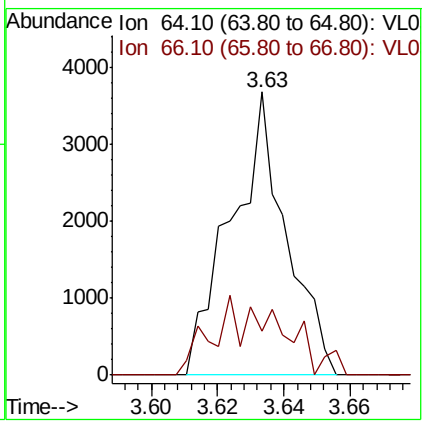


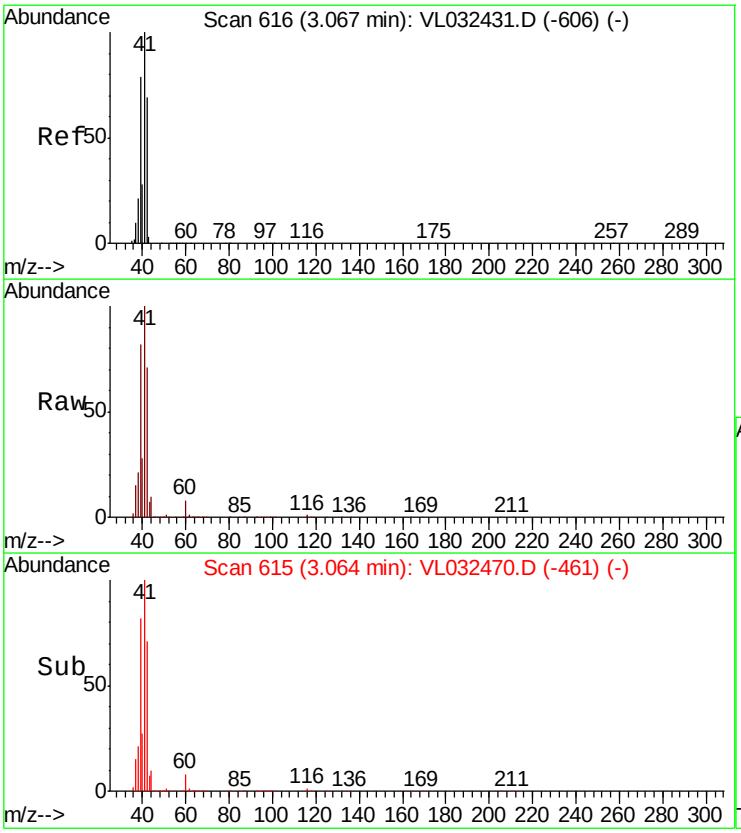
#7
Chloroethane
Concen: 0.138 ppbv
RT: 3.63 min Scan# 792
Delta R.T. -0.00 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Instrument : MSVOA_L
ClientSampleId : VP-2DUP

Tgt Ion: 64 Resp: 4234

Ion	Ratio	Lower	Upper
64	100		
66	13.9	25.8	38.6#

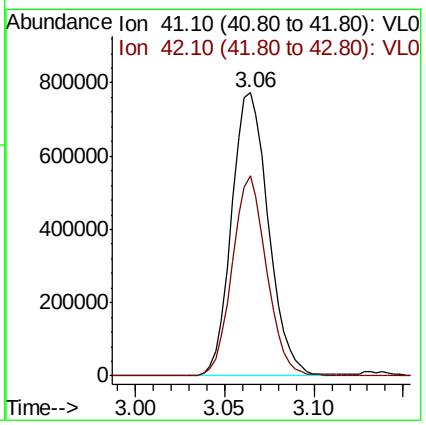


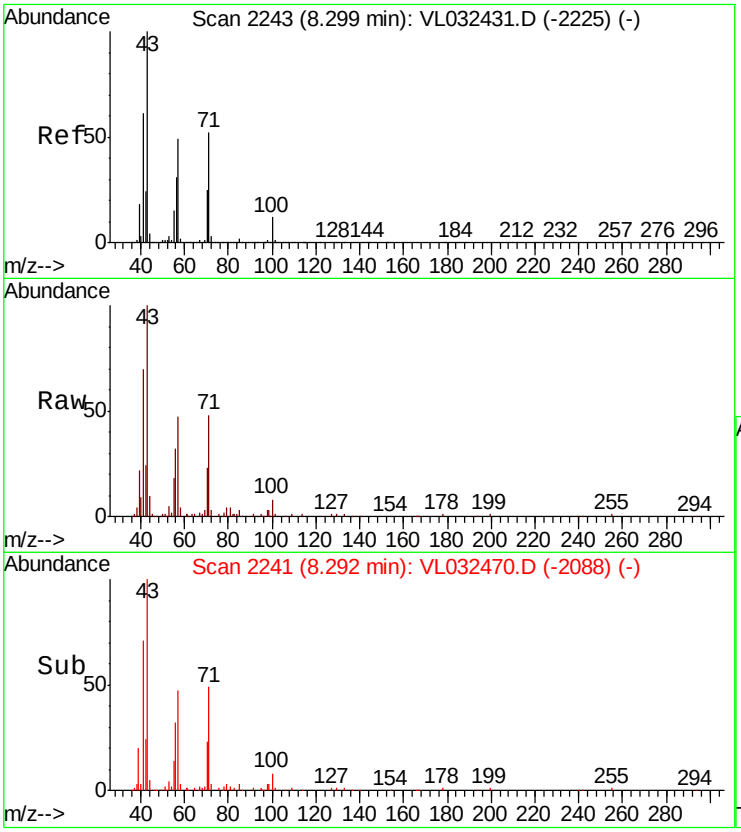


#9
Propene
Concen: 18.567 ppbv
RT: 3.06 min Scan# 615
Delta R.T. -0.00 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Tgt Ion: 41 Resp: 1109466

Ion	Ratio	Lower	Upper
41	100		
42	66.2	56.6	84.8



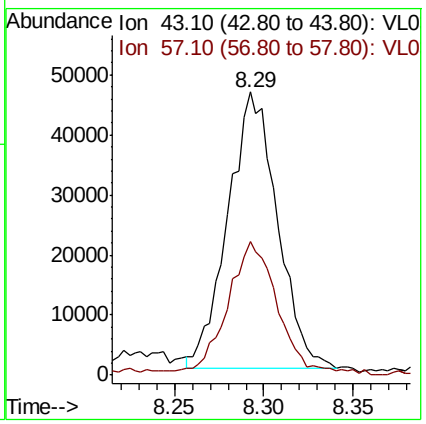


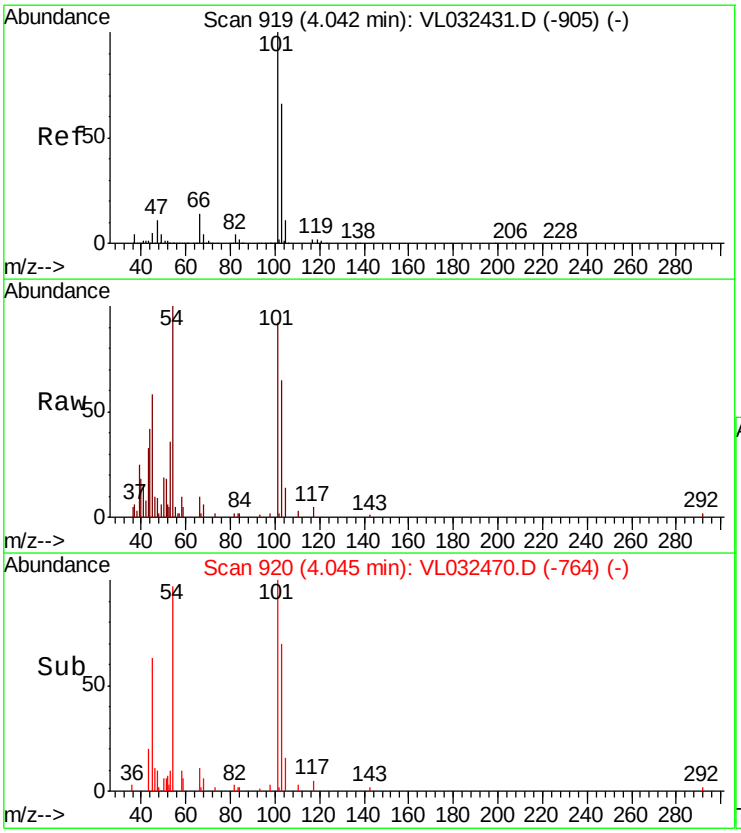
#10
Heptane
Concen: 0.413 ppbv
RT: 8.29 min Scan# 2241
Delta R.T. -0.01 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Instrument :
MSVOA_L
ClientSampleId :
VP-2DUP

Tgt Ion: 43 Resp: 88438

Ion	Ratio	Lower	Upper
43	100		
57	50.5	39.6	59.4

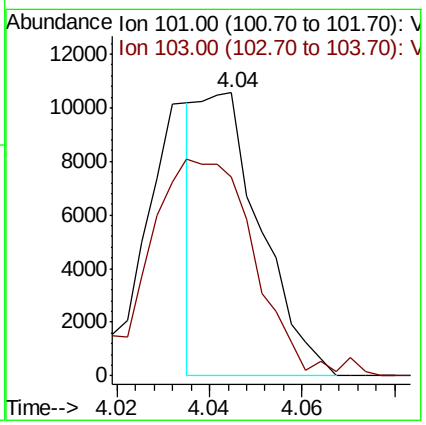


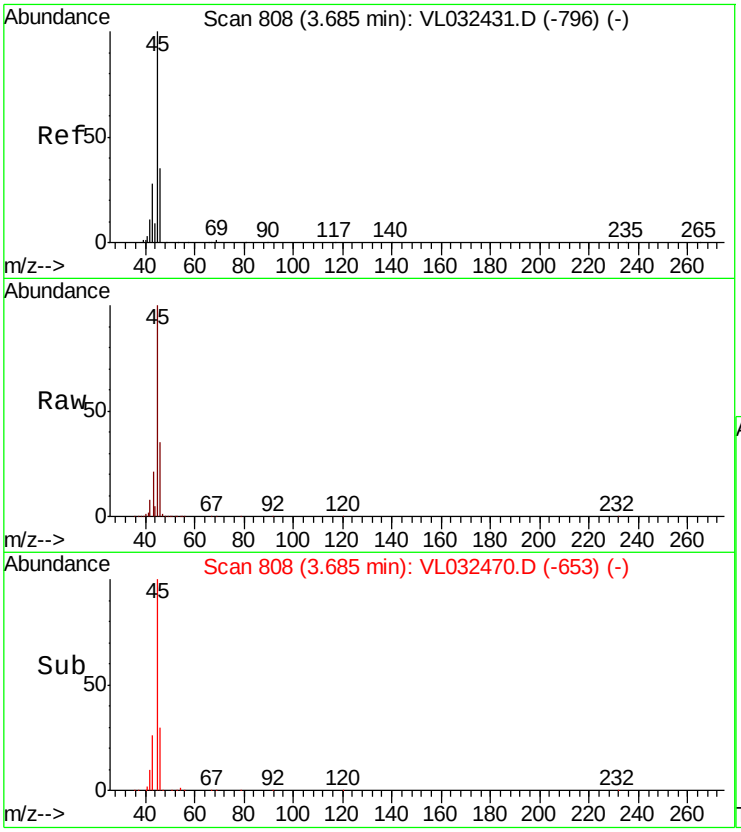


#11
Trichlorofluoromethane
Concen: 0.053 ppbv
RT: 4.04 min Scan# 920
Delta R.T. 0.00 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Tgt Ion:101 Resp: 9948

Ion	Ratio	Lower	Upper
101	100		
103	68.9	52.8	79.2



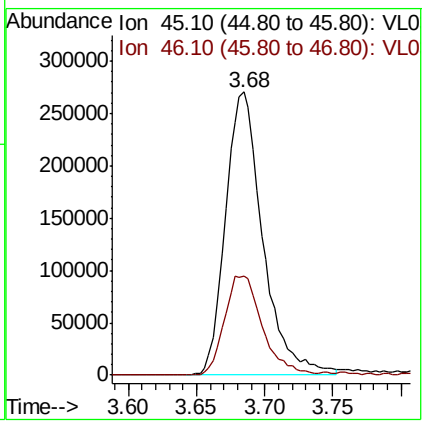


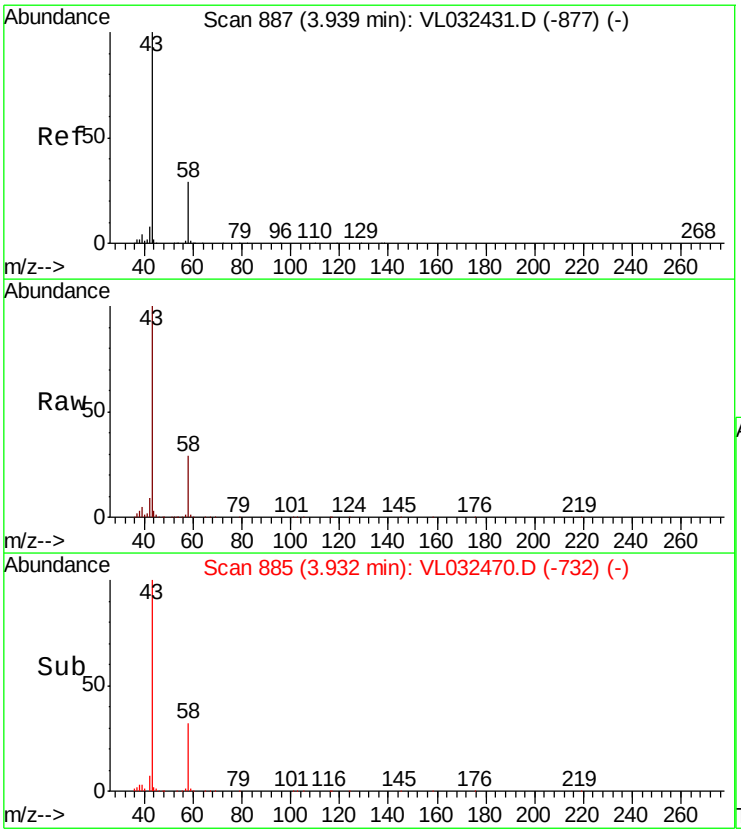
#13
Ethanol
Concen: 27.523 ppbv
RT: 3.68 min Scan# 808
Delta R.T. -0.00 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Instrument :
MSVOA_L
ClientSampleId :
VP-2DUP

Tgt Ion: 45 Resp: 512654

Ion	Ratio	Lower	Upper
45	100		
46	35.9	14.2	56.8

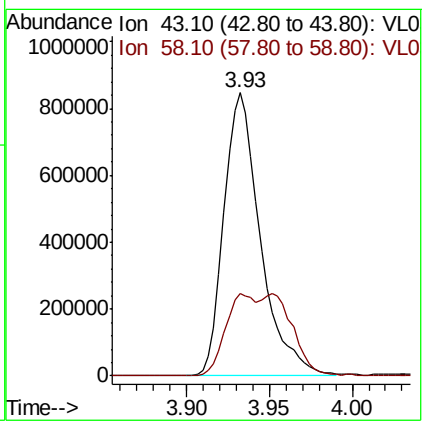


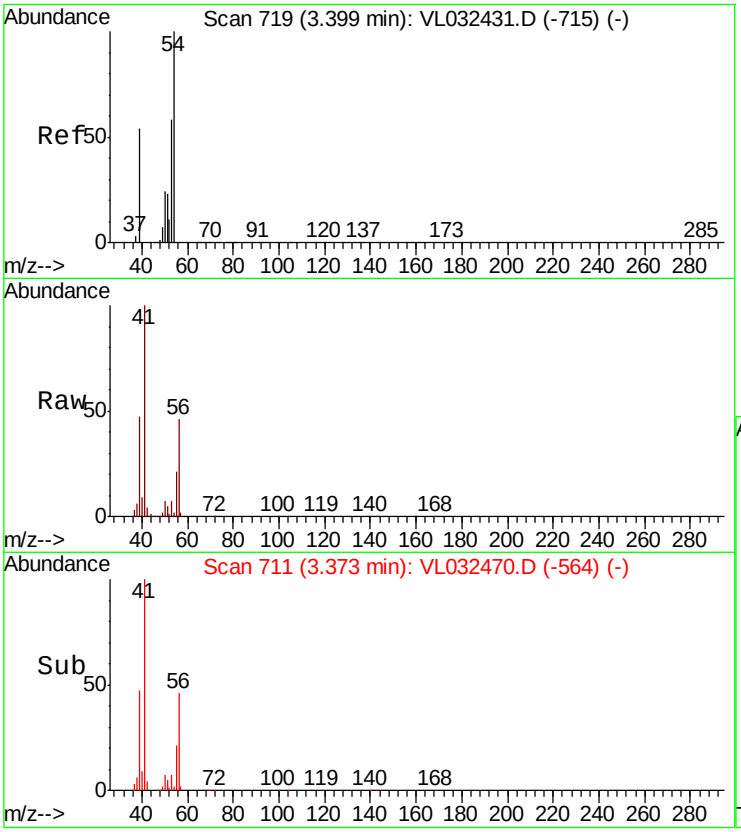


#15
Acetone
Concen: 8.755 ppbv
RT: 3.93 min Scan# 885
Delta R.T. -0.01 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Tgt Ion: 43 Resp: 1290254

Ion	Ratio	Lower	Upper
43	100		
58	50.8	22.6	33.8#



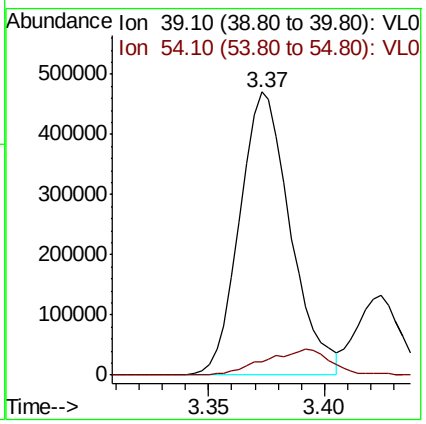


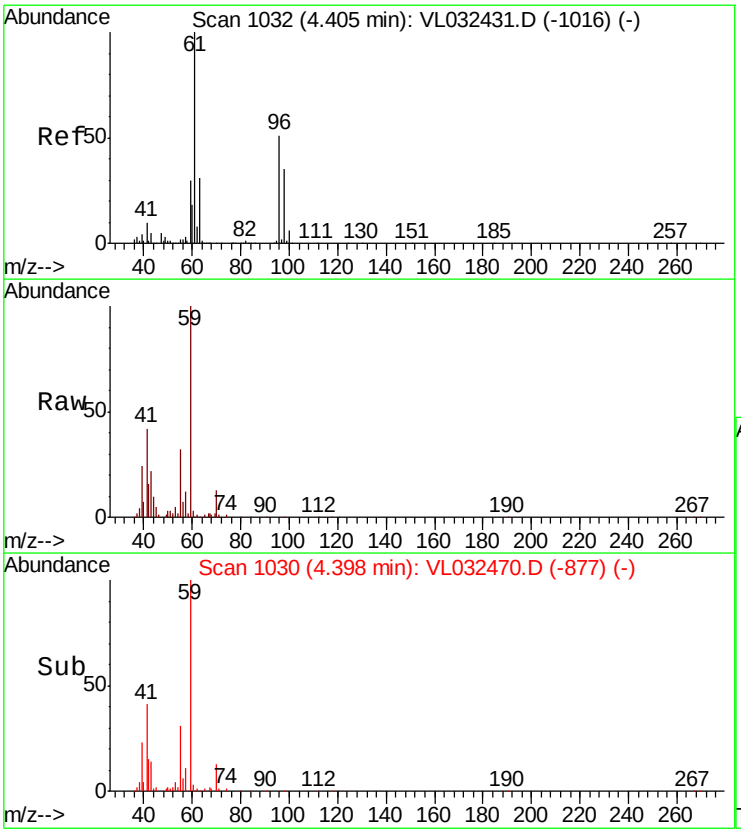
#16
1,3-Butadiene
Concen: 10.316 ppbv
RT: 3.37 min Scan# 711
Delta R.T. -0.03 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Instrument :
MSVOA_L
ClientSampleId :
VP-2DUP

Tgt Ion: 39 Resp: 715353

Ion	Ratio	Lower	Upper
39	100		
54	12.2	80.8	121.2#

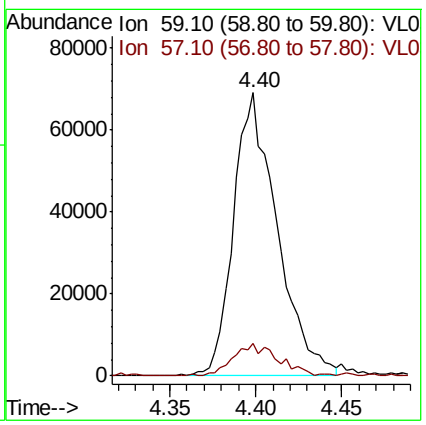


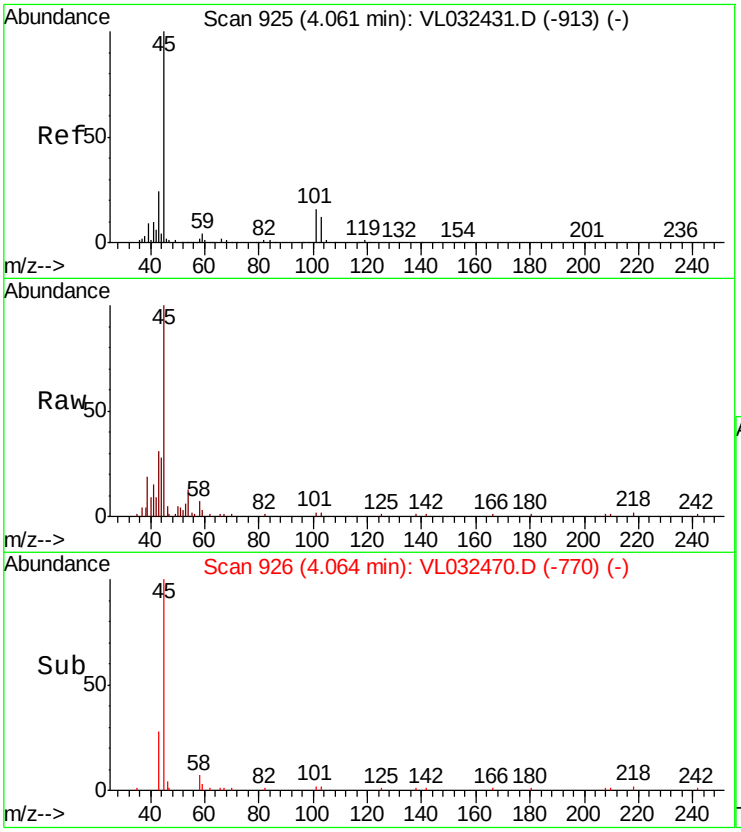


#17
tert-Butyl alcohol
Concen: 5.316 ppbv
RT: 4.40 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Tgt Ion: 59 Resp: 120565

Ion	Ratio	Lower	Upper
59	100		
57	12.4	0.0	0.0#



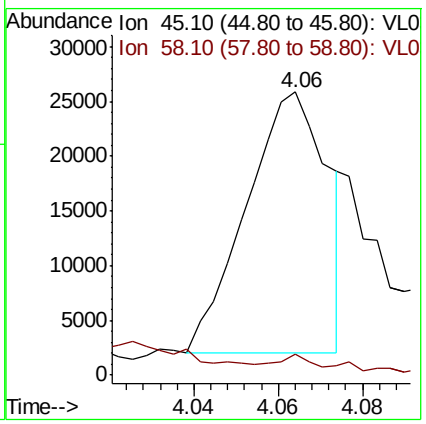


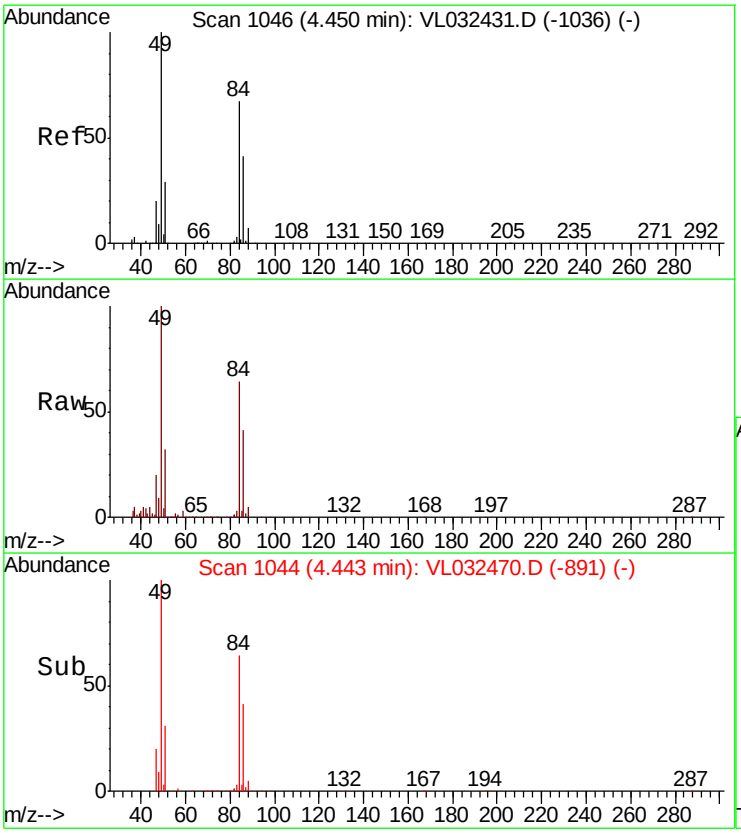
#19
Isopropyl Alcohol
Concen: 0.327 ppbv
RT: 4.06 min Scan# 926
Delta R.T. 0.00 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Instrument : MSVOA_L
ClientSampleId : VP-2DUP

Tgt Ion: 45 Resp: 31638

Ion	Ratio	Lower	Upper
45	100		
58	2069.9	2.0	3.0#

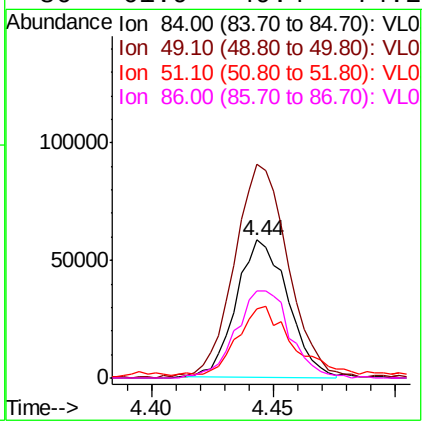


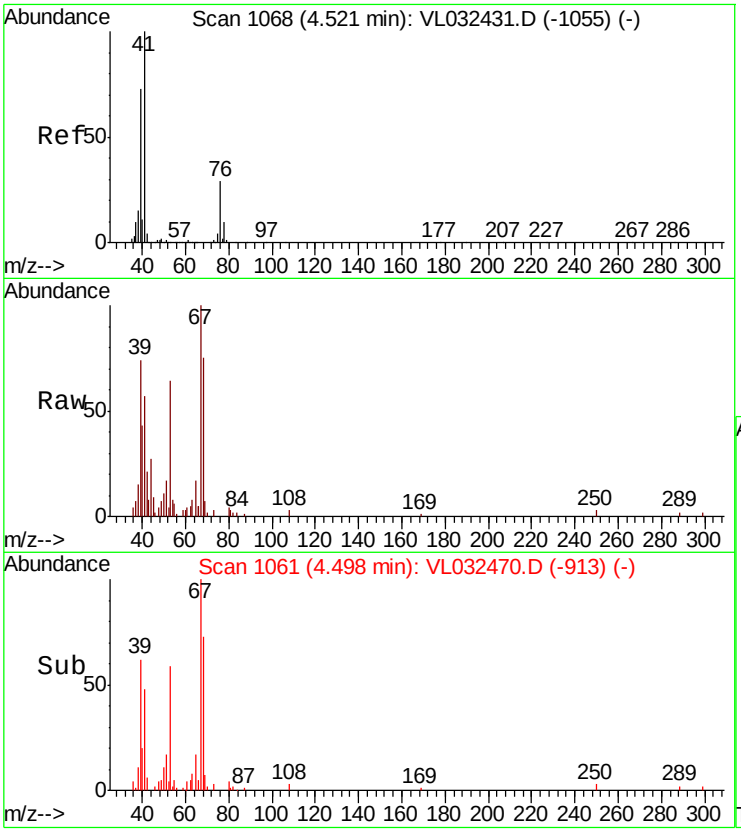


#20
Methylene Chloride
Concen: 1.517 ppbv
RT: 4.44 min Scan# 1044
Delta R.T. -0.01 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Tgt Ion: 84 Resp: 85262

Ion	Ratio	Lower	Upper
84	100		
49	155.0	119.1	178.7
51	46.7	35.2	52.8
86	61.9	49.4	74.2



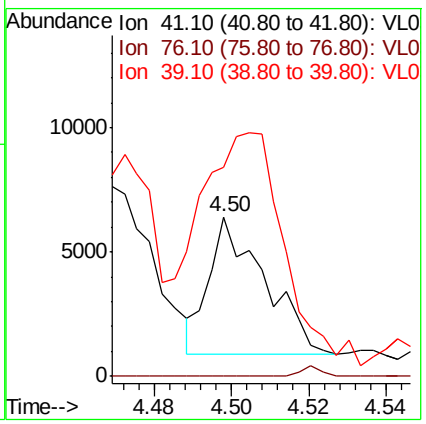


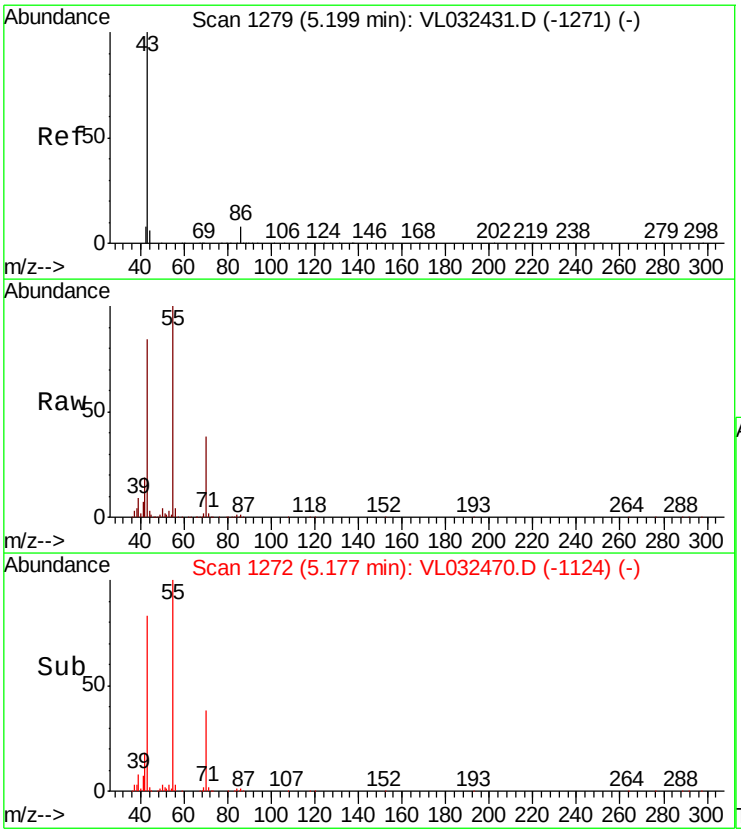
#21
Allyl Chloride
Concen: 0.056 ppbv
RT: 4.50 min Scan# 1061
Delta R.T. -0.02 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Instrument : MSVOA_L
ClientSampleId : VP-2DUP

Tgt Ion: 41 Resp: 5450

Ion	Ratio	Lower	Upper
41	100		
76	0.0	23.6	35.4#
39	222.3	57.7	86.5#

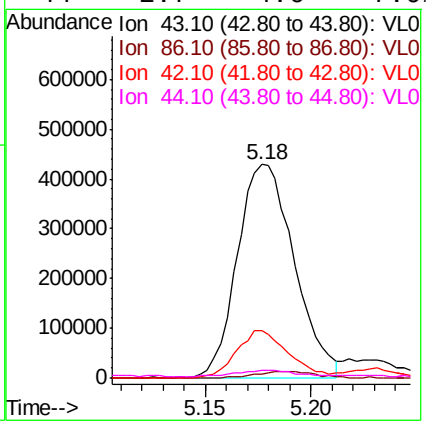


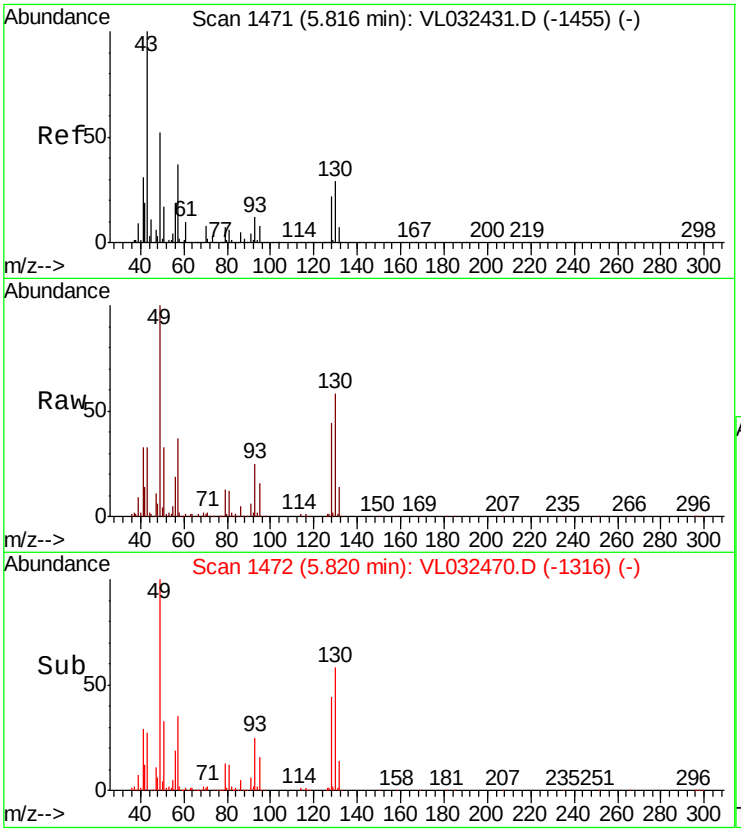


#23
Vinyl Acetate
Concen: 3.279 ppbv
RT: 5.18 min Scan# 1272
Delta R.T. -0.02 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Tgt Ion: 43 Resp: 800923

Ion	Ratio	Lower	Upper
43	100		
86	1.5	5.9	8.9#
42	22.0	6.9	10.3#
44	2.7	4.6	7.0#



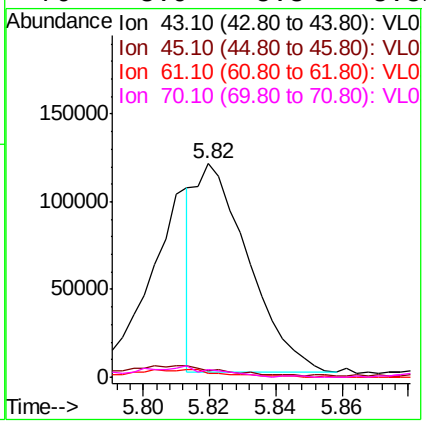


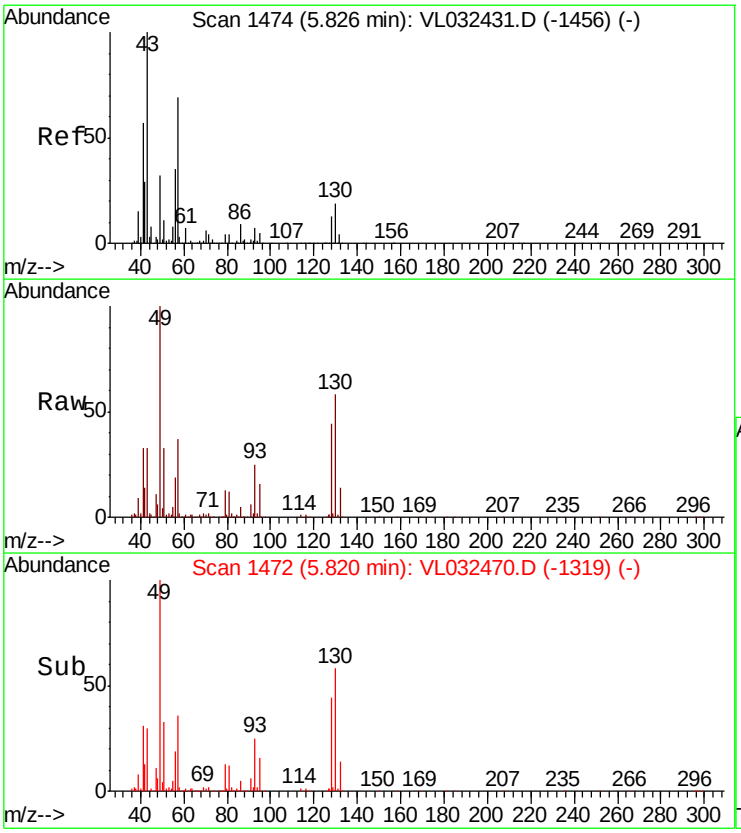
#25
Ethyl Acetate
Concen: 0.378 ppbv
RT: 5.82 min Scan# 1472
Delta R.T. 0.00 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Instrument : MSVOA_L
ClientSampleId : VP-2DUP

Tgt Ion: 43 Resp: 131396

Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.0	12.0#
61	6.7	7.6	11.4#
70	8.9	5.8	8.8#

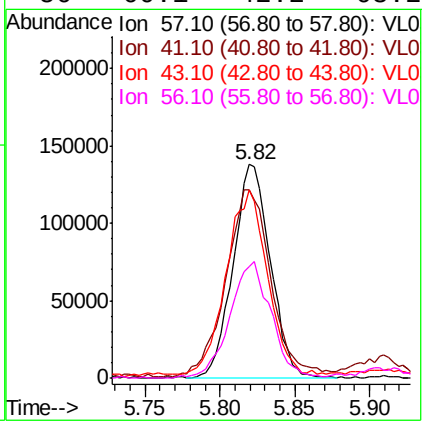


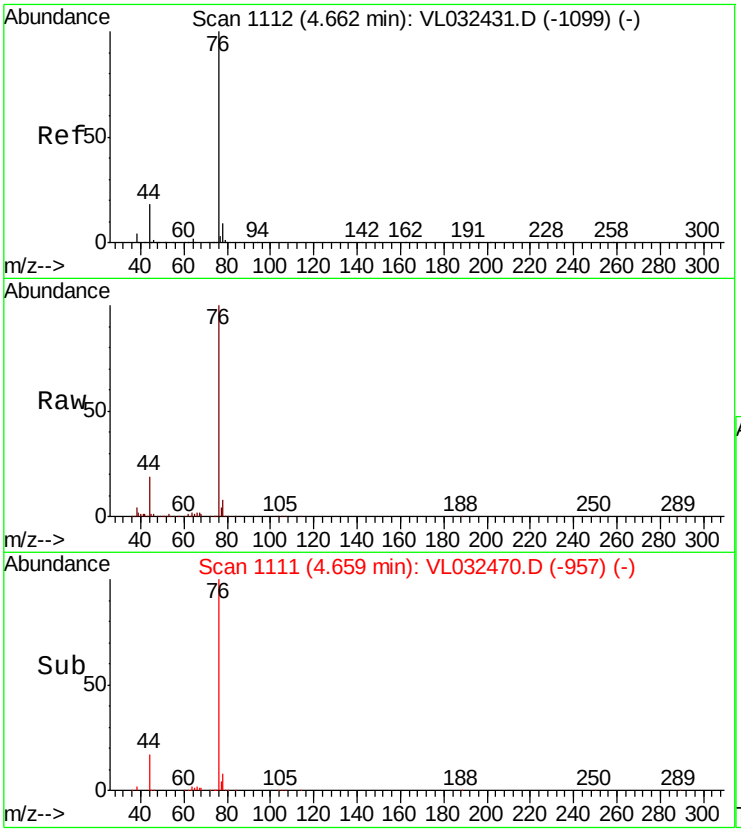


#26
Hexane
Concen: 1.537 ppbv
RT: 5.82 min Scan# 1472
Delta R.T. -0.01 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Tgt Ion: 57 Resp: 239554

Ion	Ratio	Lower	Upper
57	100		
41	107.1	69.0	103.4#
43	98.8	172.1	258.1#
56	60.1	42.2	63.2



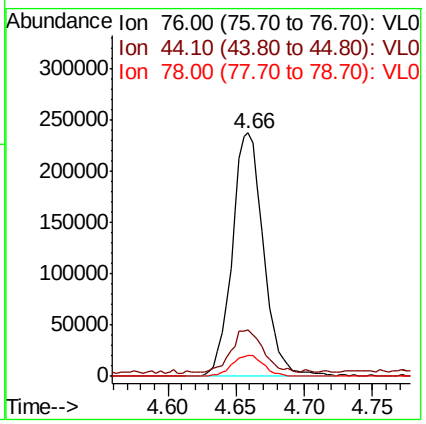


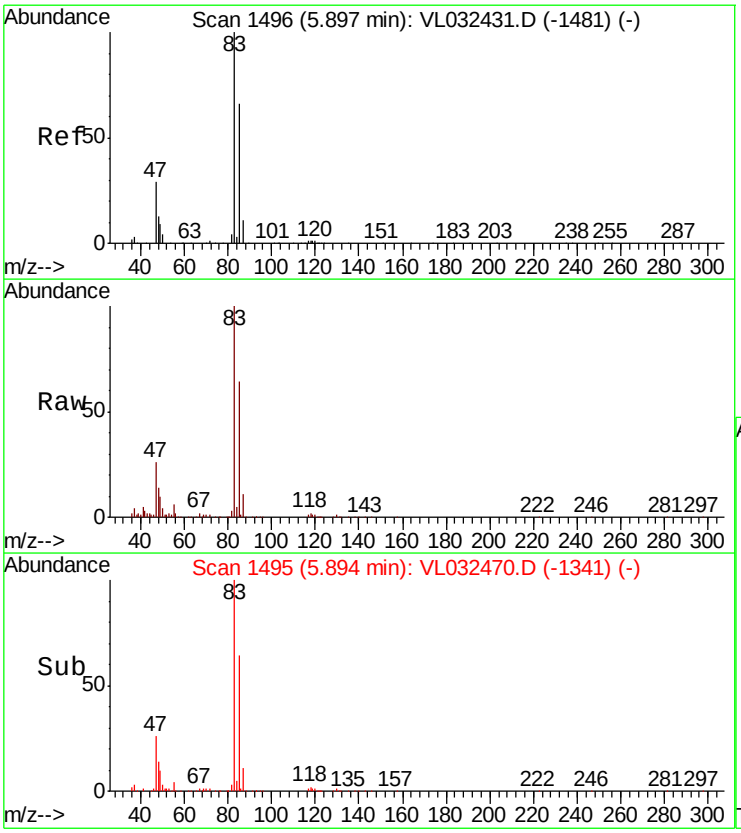
#27
Carbon Disulfide
Concen: 2.635 ppbv
RT: 4.66 min Scan# 1111
Delta R.T. -0.00 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Instrument : MSVOA_L
ClientSampleId : VP-2DUP

Tgt Ion: 76 Resp: 379096

Ion	Ratio	Lower	Upper
76	100		
44	19.6	14.0	21.0
78	9.2	7.5	11.3

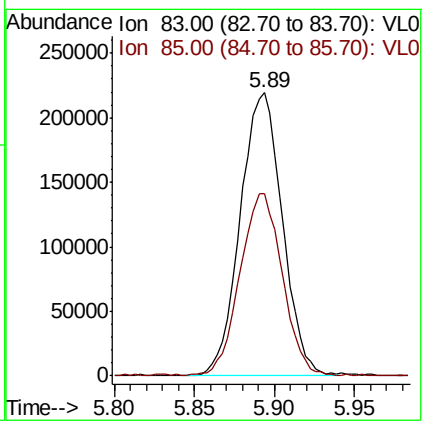


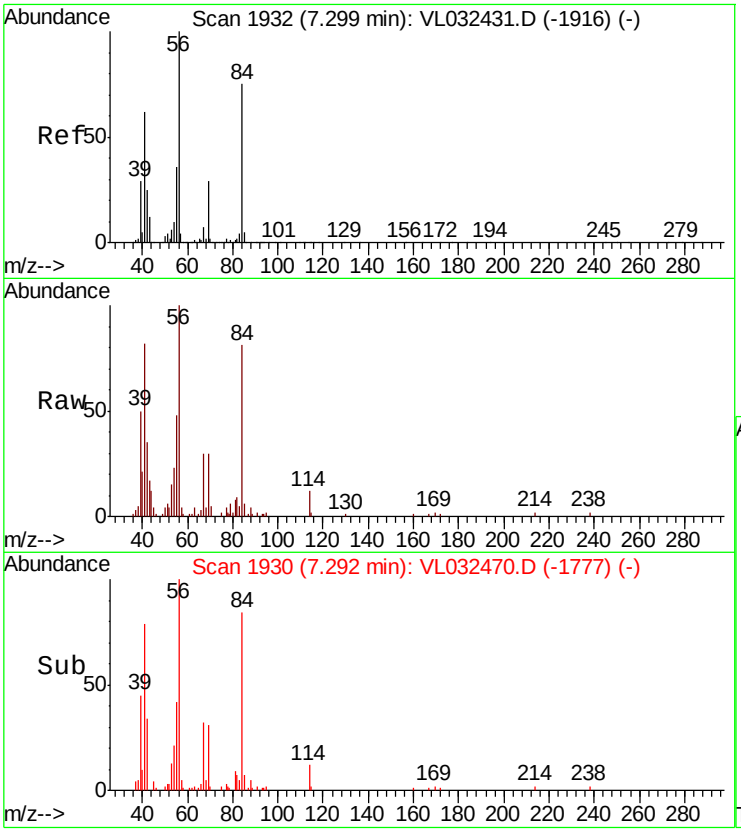


#29
Chloroform
Concen: 1.657 ppbv
RT: 5.89 min Scan# 1495
Delta R.T. -0.00 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Tgt Ion: 83 Resp: 393768

Ion	Ratio	Lower	Upper
83	100		
85	63.9	52.5	78.7



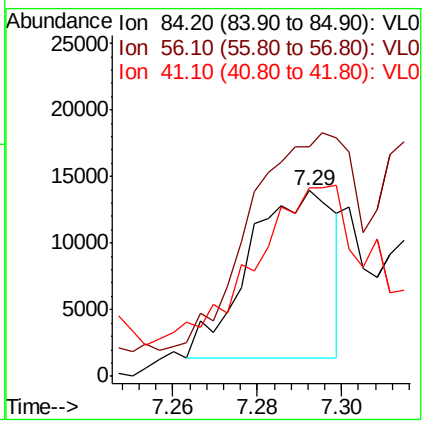


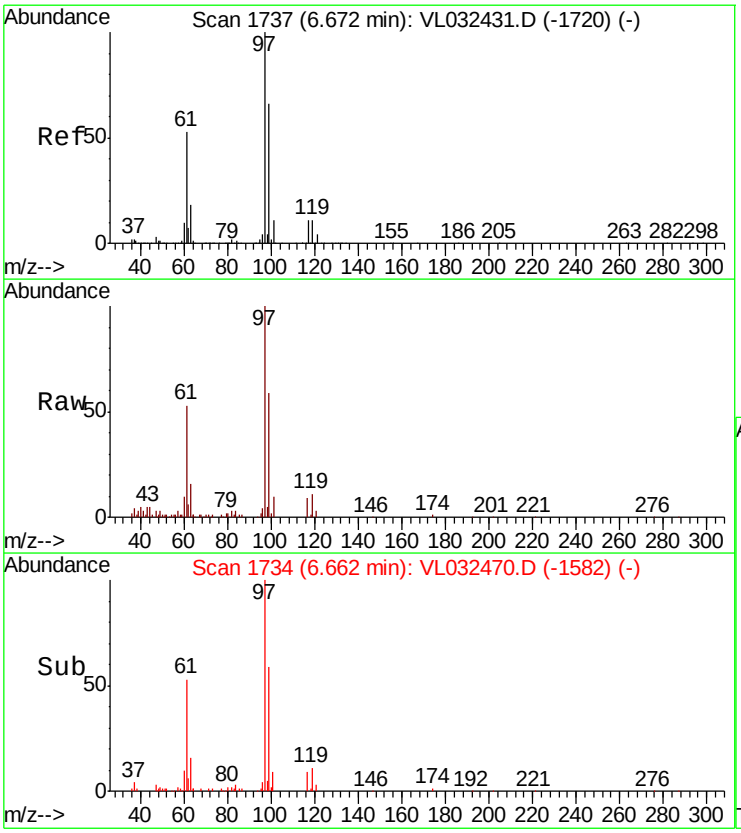
#30
Cyclohexane
Concen: 0.154 ppbv
RT: 7.29 min Scan# 1930
Delta R.T. -0.01 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Instrument :
MSVOA_L
ClientSampleId :
VP-2DUP

Tgt Ion: 84 Resp: 17623

Ion	Ratio	Lower	Upper
84	100		
56	0.0	113.5	170.3#
41	127.3	68.1	102.1#

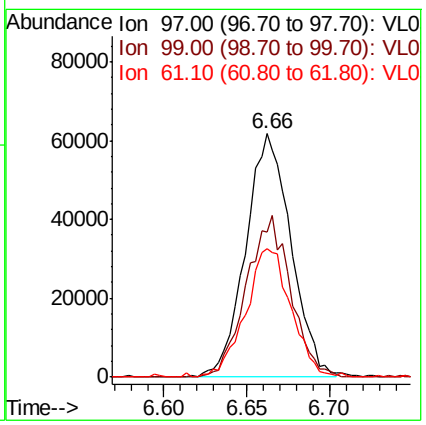


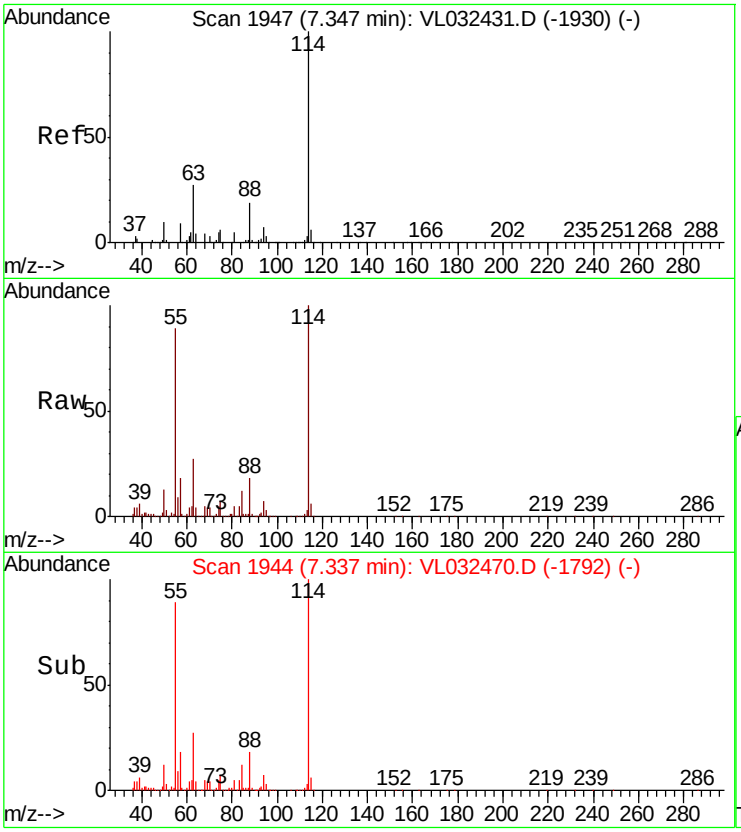


#32
1,1,1-Trichloroethane
Concen: 0.531 ppbv
RT: 6.66 min Scan# 1734
Delta R.T. -0.01 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Tgt Ion: 97 Resp: 117531

Ion	Ratio	Lower	Upper
97	100		
99	64.9	52.1	78.1
61	53.7	42.5	63.7



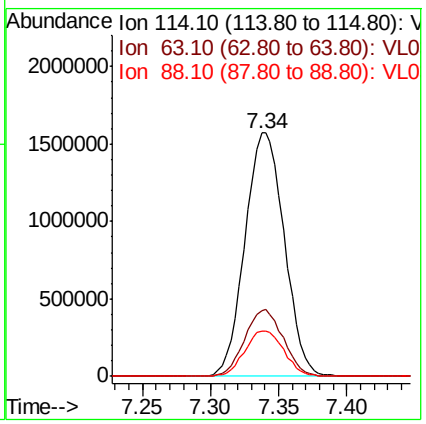


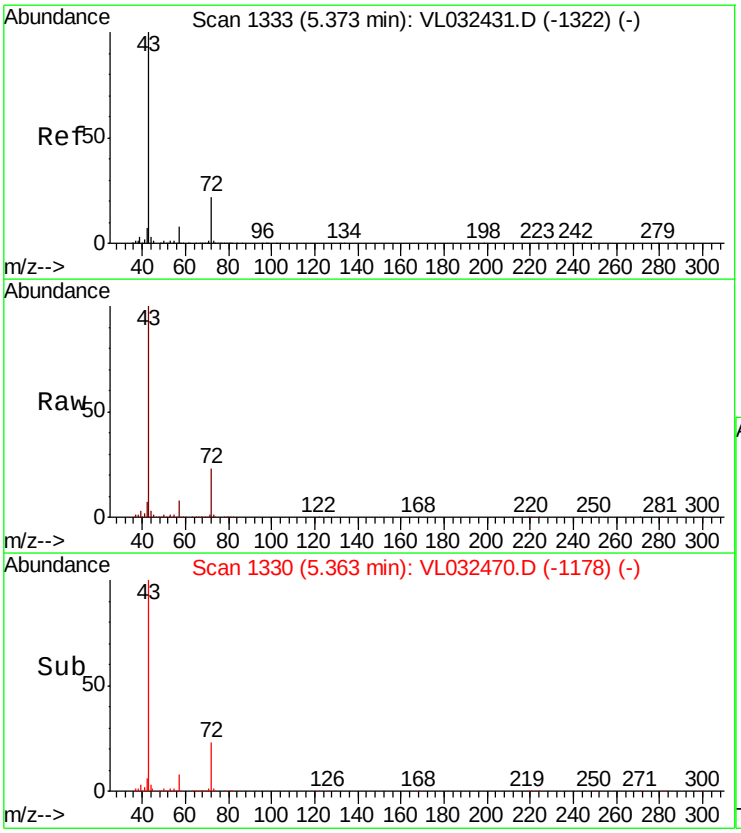
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.34 min Scan# 1944
Delta R.T. -0.01 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Instrument :
MSVOA_L
ClientSampleId :
VP-2DUP

Tgt Ion:114 Resp: 3144800

Ion	Ratio	Lower	Upper
114	100		
63	26.8	22.2	33.4
88	18.6	15.0	22.4

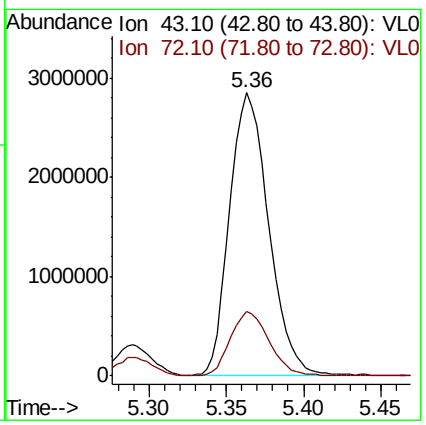


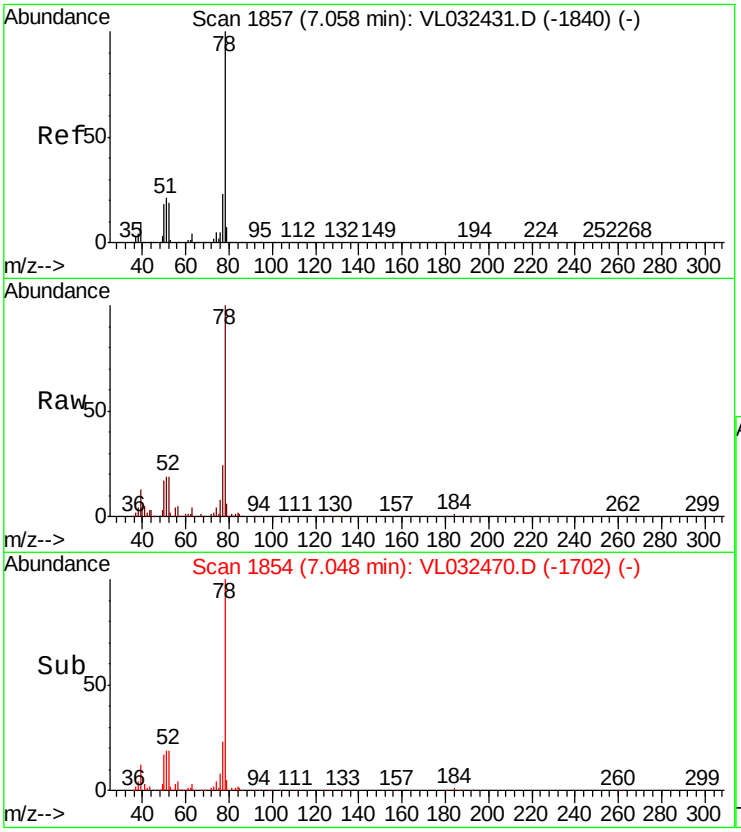


#34
2-Butanone
Concen: 23.843 ppbv
RT: 5.36 min Scan# 1330
Delta R.T. -0.01 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Tgt Ion: 43 Resp: 4980600

Ion	Ratio	Lower	Upper
43	100		
72	22.7	17.8	26.6



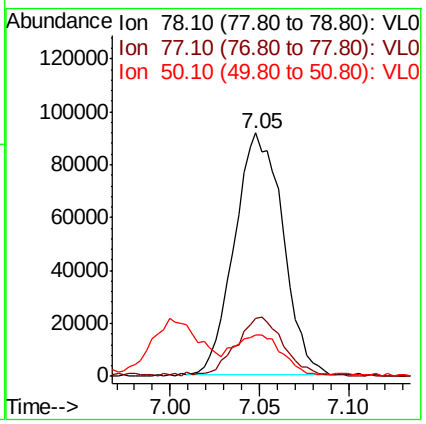


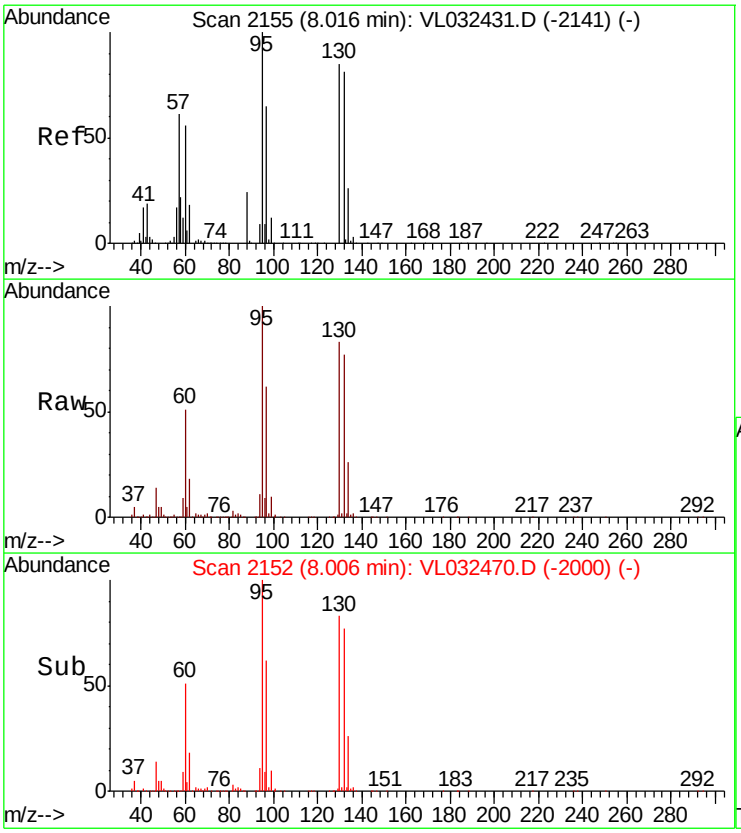
#36
Benzene
Concen: 0.648 ppbv
RT: 7.05 min Scan# 1854
Delta R.T. -0.01 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Instrument :
MSVOA_L
ClientSampleId :
VP-2DUP

Tgt Ion: 78 Resp: 173548

Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.4	27.6
50	16.0	14.4	21.6

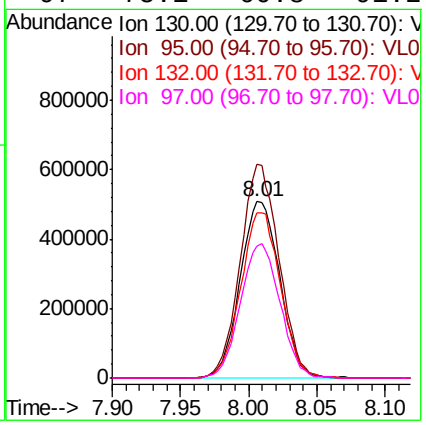


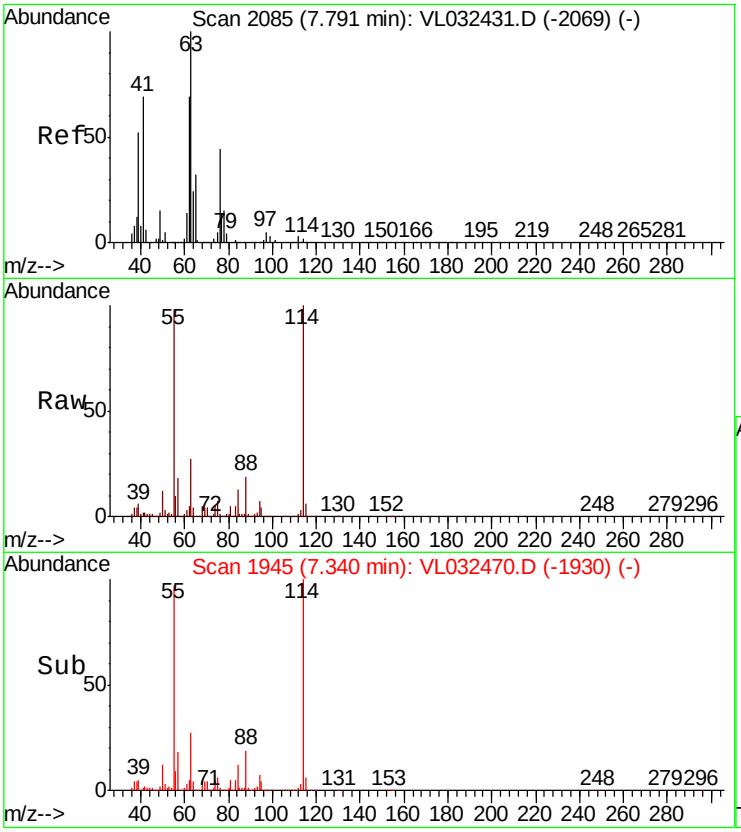


#38
Trichloroethene
Concen: 10.087 ppbv
RT: 8.01 min Scan# 2152
Delta R.T. -0.01 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Tgt Ion:130 Resp: 1025471

Ion	Ratio	Lower	Upper
130	100		
95	121.1	94.2	141.4
132	93.5	76.2	114.4
97	75.1	60.8	91.2



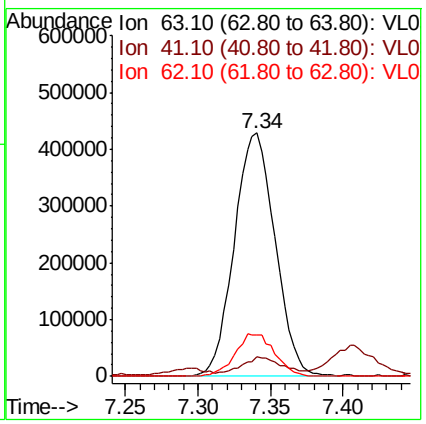


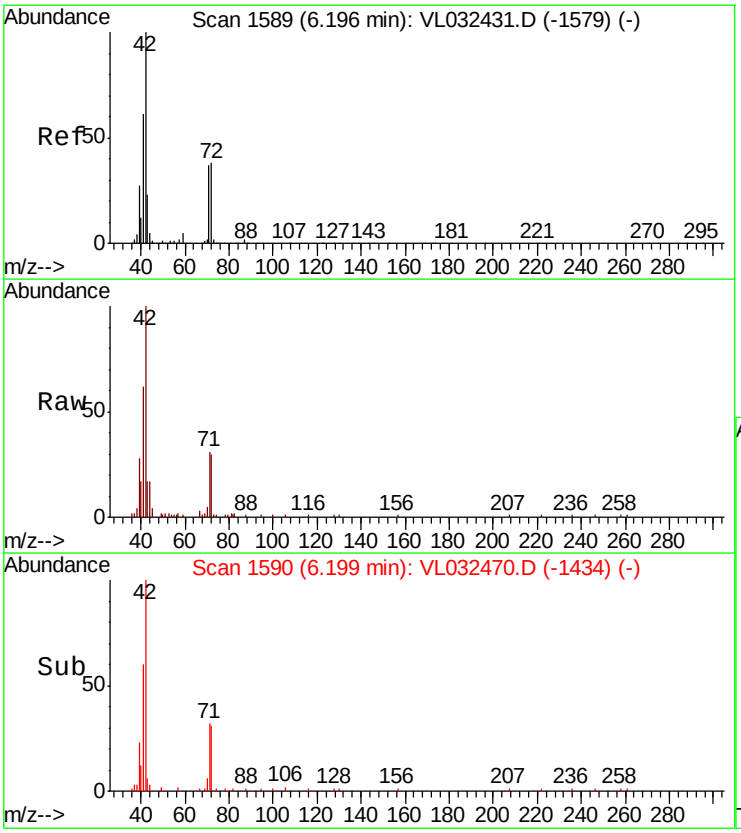
#39
1,2-Dichloropropane
Concen: 7.299 ppbv
RT: 7.34 min Scan# 1945
Delta R.T. -0.45 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Instrument : MSVOA_L
ClientSampleId : VP-2DUP

Tgt Ion: 63 Resp: 835717

Ion	Ratio	Lower	Upper
63	100		
41	4.8	55.4	83.0#
62	17.0	55.4	83.0#

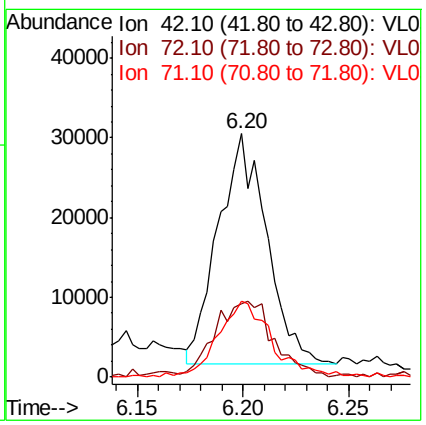


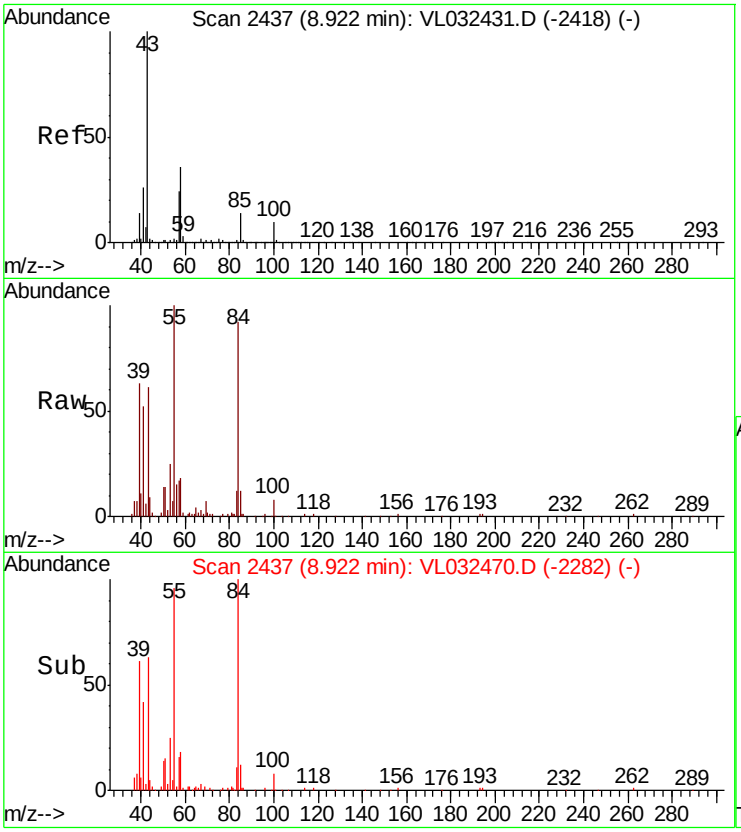


#41
Tetrahydrofuran
Concen: 0.403 ppbv
RT: 6.20 min Scan# 1590
Delta R.T. 0.00 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Tgt Ion: 42 Resp: 45784

Ion	Ratio	Lower	Upper
42	100		
72	43.7	29.5	44.3
71	38.1	28.3	42.5



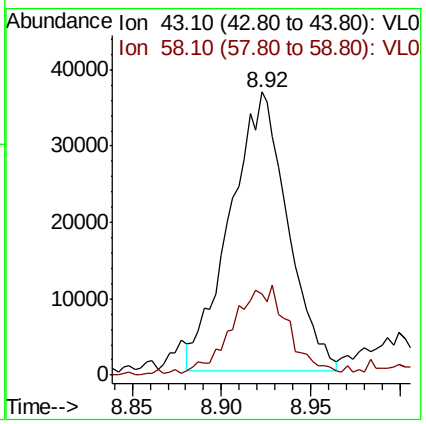


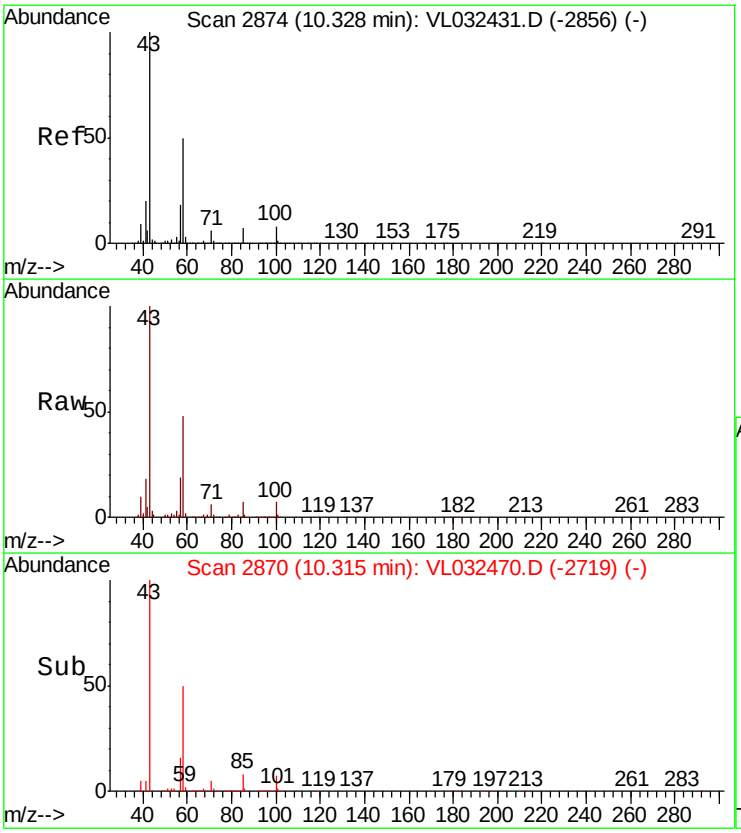
#50
4-Methyl-2-Pentanone
Concen: 0.260 ppbv
RT: 8.92 min Scan# 2437
Delta R.T. -0.00 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Instrument : MSVOA_L
ClientSampleId : VP-2DUP

Tgt Ion: 43 Resp: 81968

Ion	Ratio	Lower	Upper
43	100		
58	32.8	29.0	43.4

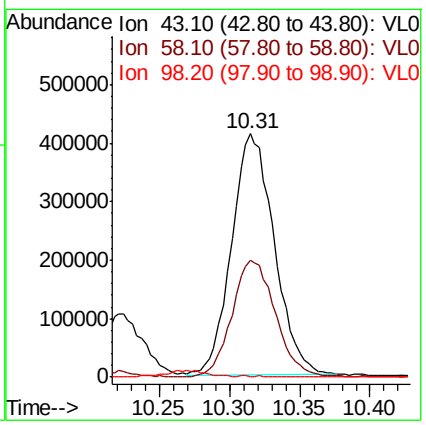


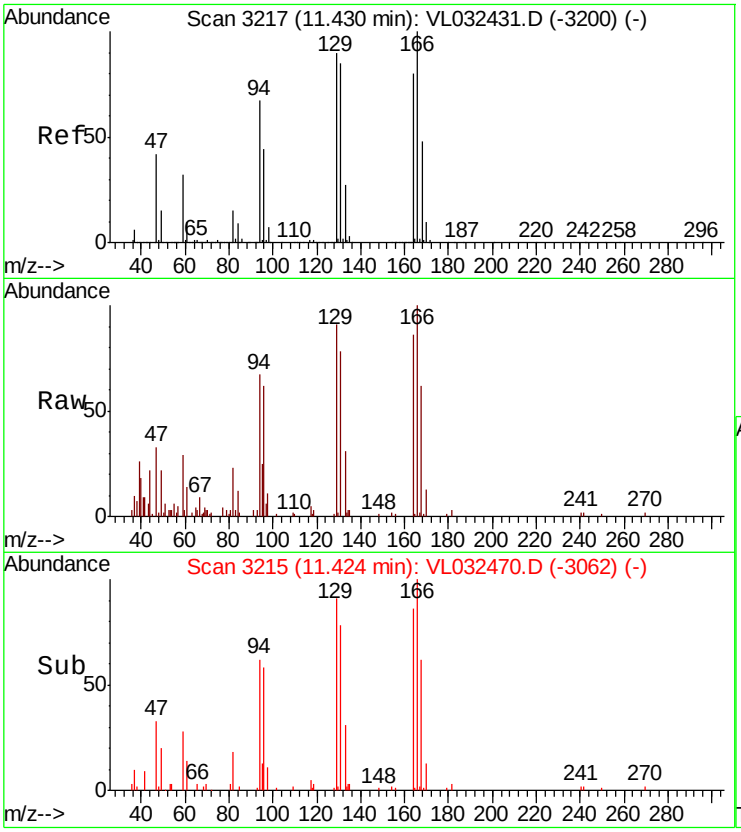


#51
2-Hexanone
Concen: 4.318 ppbv
RT: 10.31 min Scan# 2870
Delta R.T. -0.01 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Tgt Ion: 43 Resp: 875253

Ion	Ratio	Lower	Upper
43	100		
58	49.3	39.2	58.8
98	3.2	0.4	0.6#



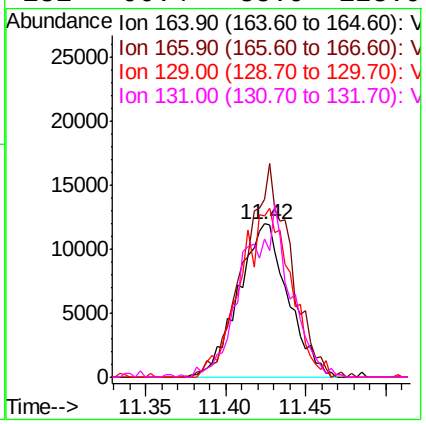


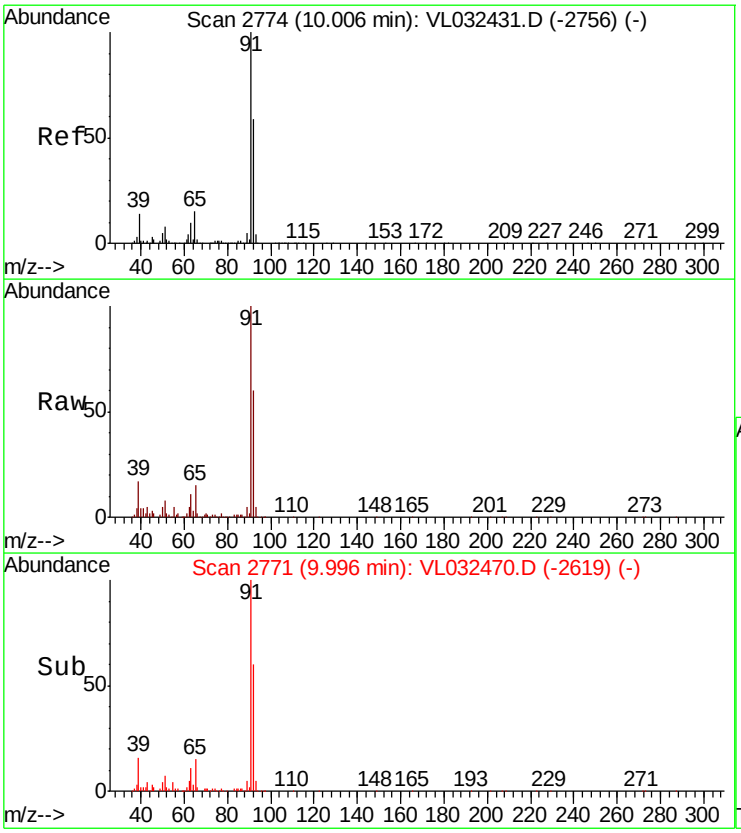
#52
Tetrachloroethene
Concen: 0.308 ppbv
RT: 11.42 min Scan# 3215
Delta R.T. -0.01 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Instrument :
MSVOA_L
ClientSampleId :
VP-2DUP

Tgt Ion:164 Resp: 25525

Ion	Ratio	Lower	Upper
164	100		
166	114.9	100.6	150.8
129	105.3	89.9	134.9
131	90.4	85.9	128.9

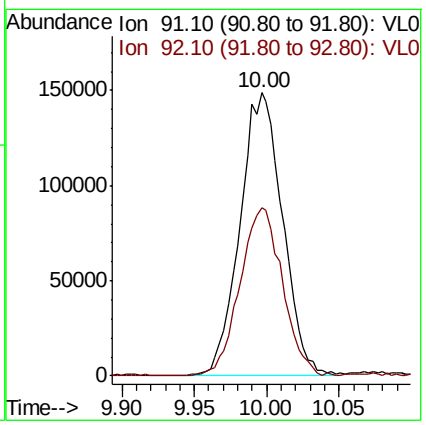


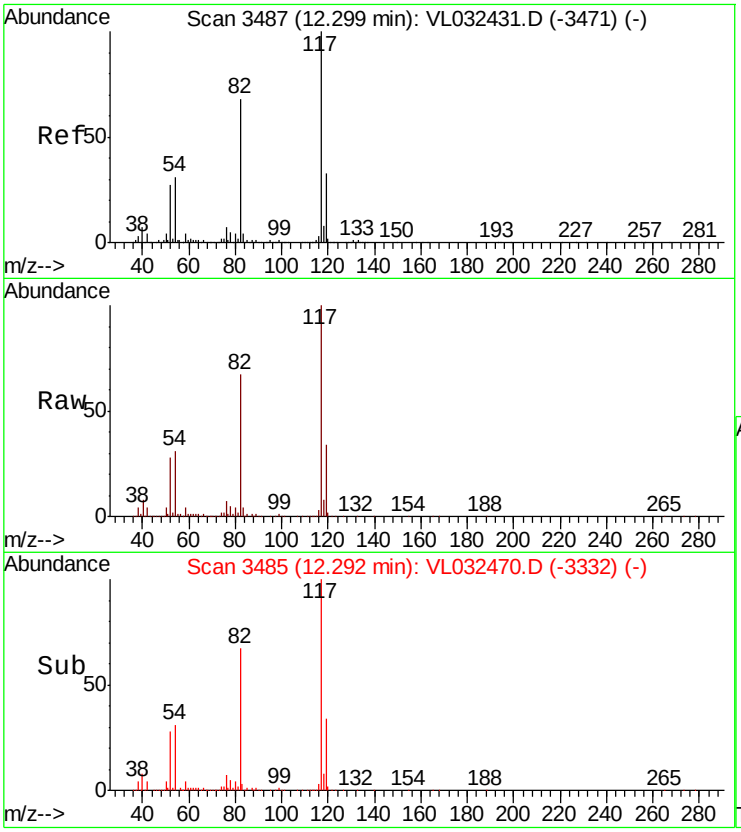


#53
Toluene
Concen: 1.086 ppbv
RT: 10.00 min Scan# 2771
Delta R.T. -0.01 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Tgt Ion: 91 Resp: 303803

Ion	Ratio	Lower	Upper
91	100		
92	59.4	48.1	72.1



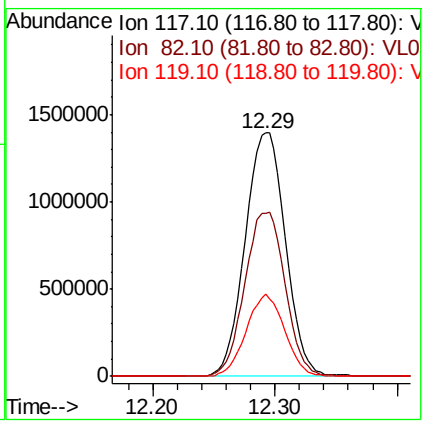


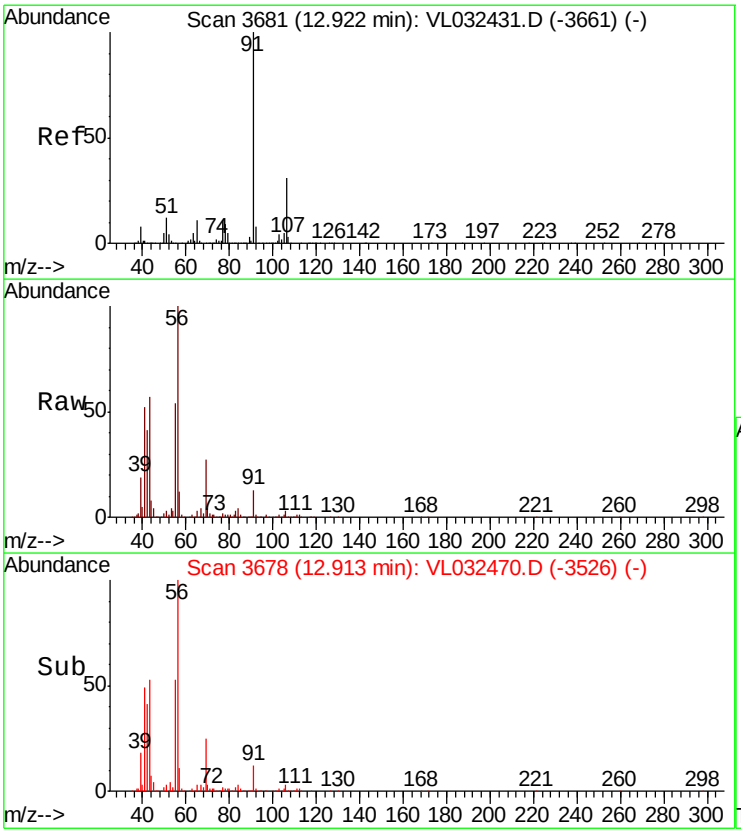
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.29 min Scan# 3485
Delta R.T. -0.01 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Instrument :
MSVOA_L
ClientSampleId :
VP-2DUP

Tgt Ion:117 Resp: 3187723

Ion	Ratio	Lower	Upper
117	100		
82	67.6	53.0	79.6
119	32.2	45.9	68.9#

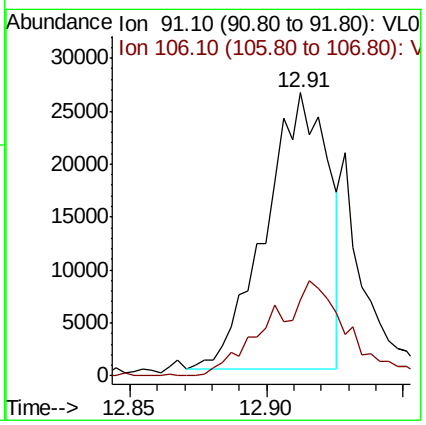


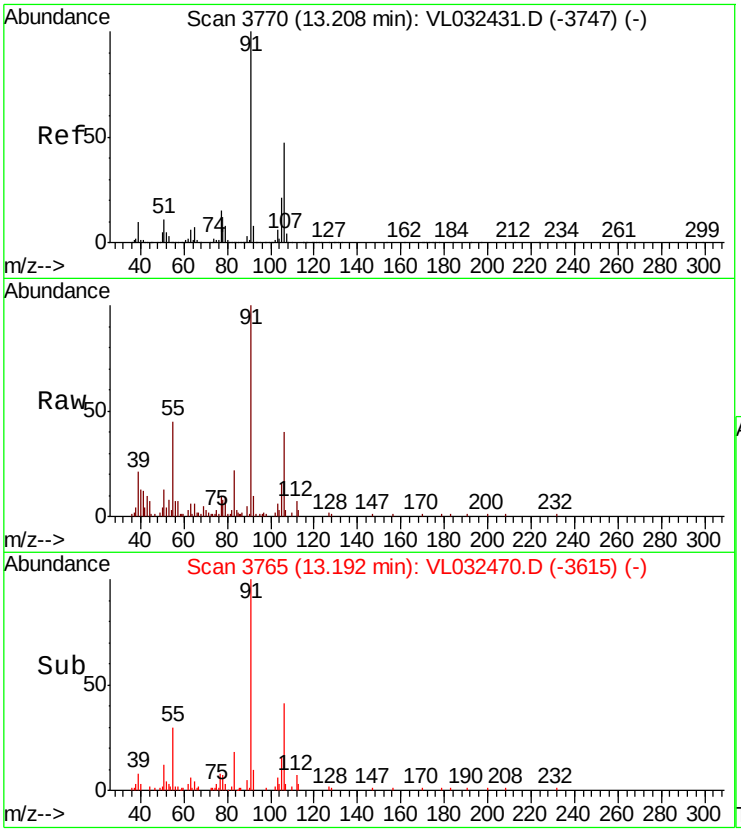


#58
Ethyl Benzene
Concen: 0.110 ppbv
RT: 12.91 min Scan# 3678
Delta R.T. -0.01 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Tgt Ion: 91 Resp: 42079

Ion	Ratio	Lower	Upper
91	100		
106	27.5	24.8	37.2



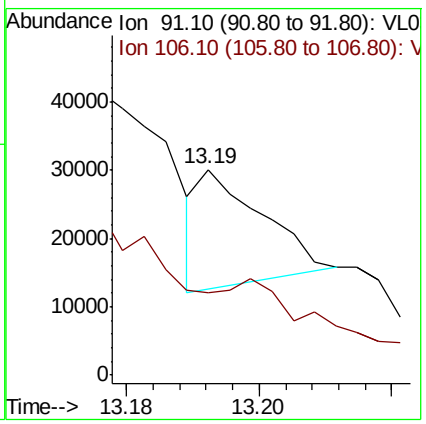


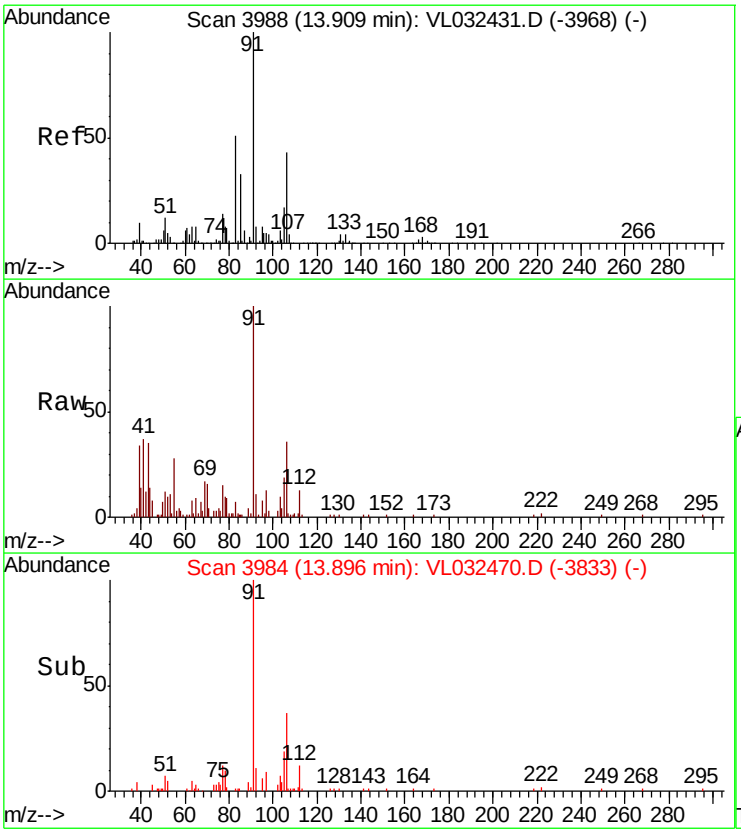
#59
m/p-Xylene
Concen: 0.034 ppbv
RT: 13.19 min Scan# 3765
Delta R.T. -0.02 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Instrument :
MSVOA_L
ClientSampleId :
VP-2DUP

Tgt Ion: 91 Resp: 11448

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.6	55.0#

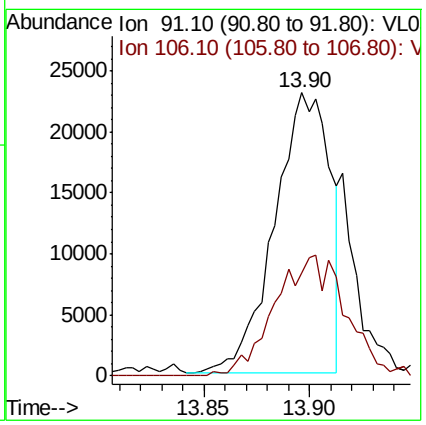


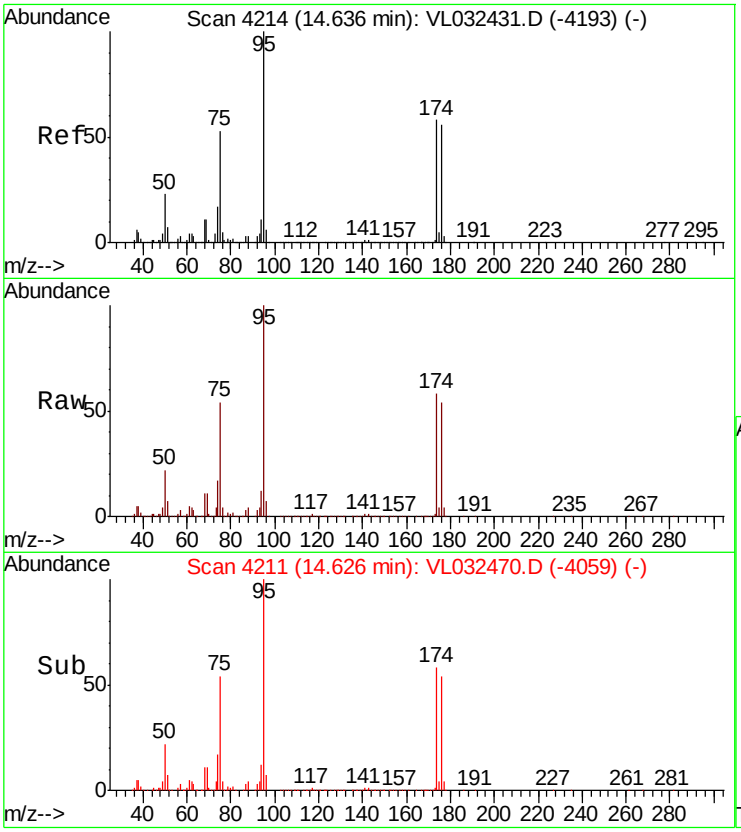


#60
o-Xylene
Concen: 0.126 ppbv
RT: 13.90 min Scan# 3984
Delta R.T. -0.01 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Tgt Ion: 91 Resp: 42185

Ion	Ratio	Lower	Upper
91	100		
106	55.3	21.9	65.7



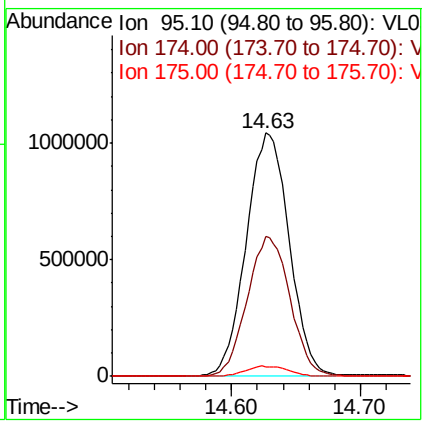


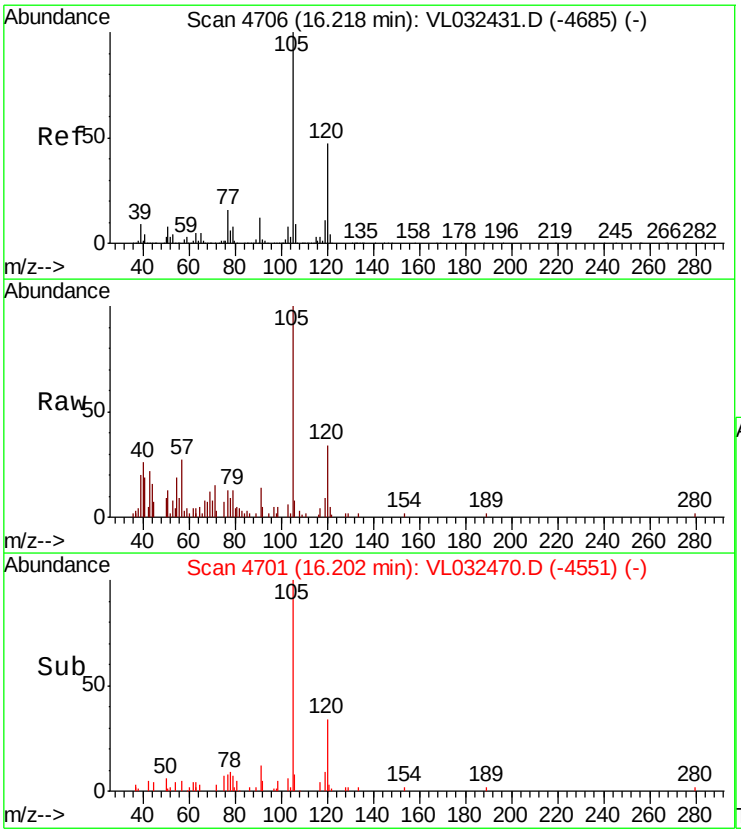
#68
1-Bromo-4-Fluorobenzene
Concen: 10.241 ppbv
RT: 14.63 min Scan# 4211
Delta R.T. -0.01 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Instrument :
MSVOA_L
ClientSampleId :
VP-2DUP

Tgt Ion: 95 Resp: 2423625

Ion	Ratio	Lower	Upper
95	100		
174	57.8	46.3	69.5
175	4.2	3.4	5.0

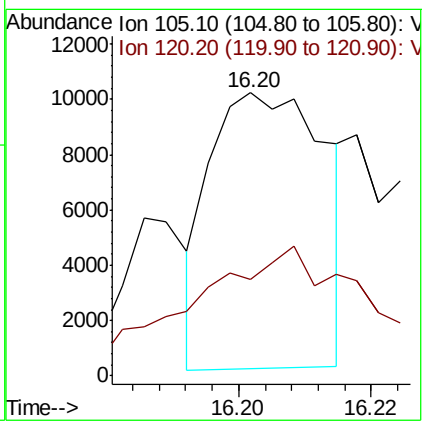


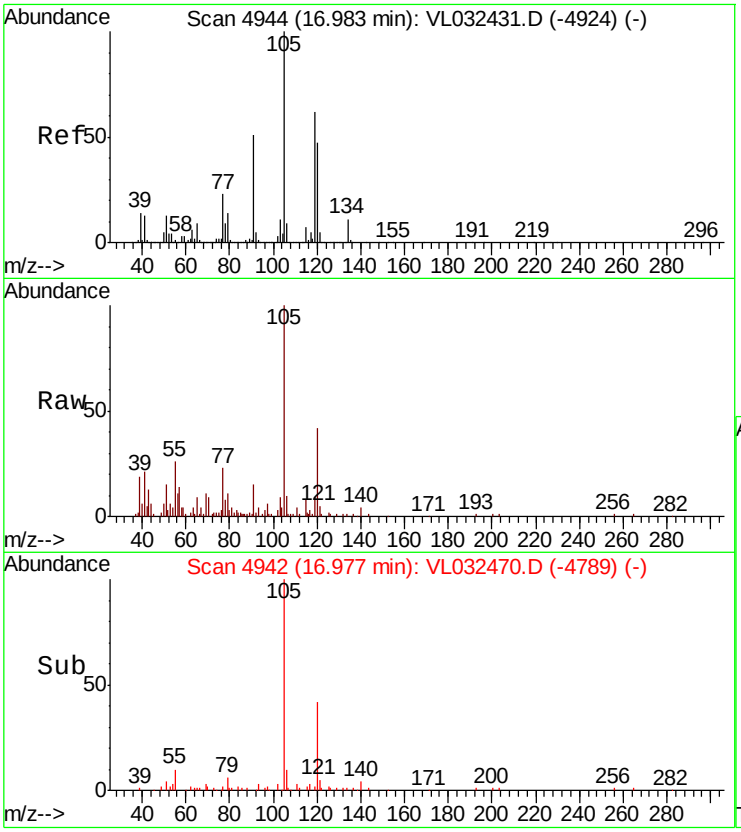


#73
1,3,5-Trimethylbenzene
Concen: 0.033 ppbv
RT: 16.20 min Scan# 4701
Delta R.T. -0.02 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Tgt Ion:105 Resp: 12020

Ion	Ratio	Lower	Upper
105	100		
120	20.3	37.9	56.9#



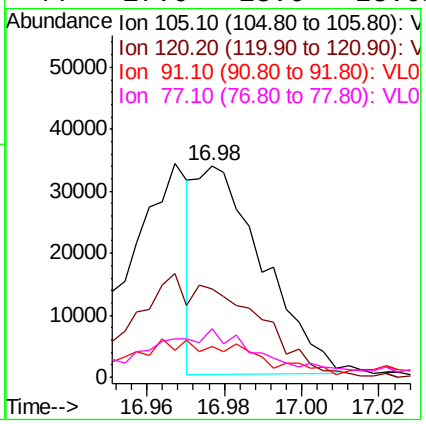


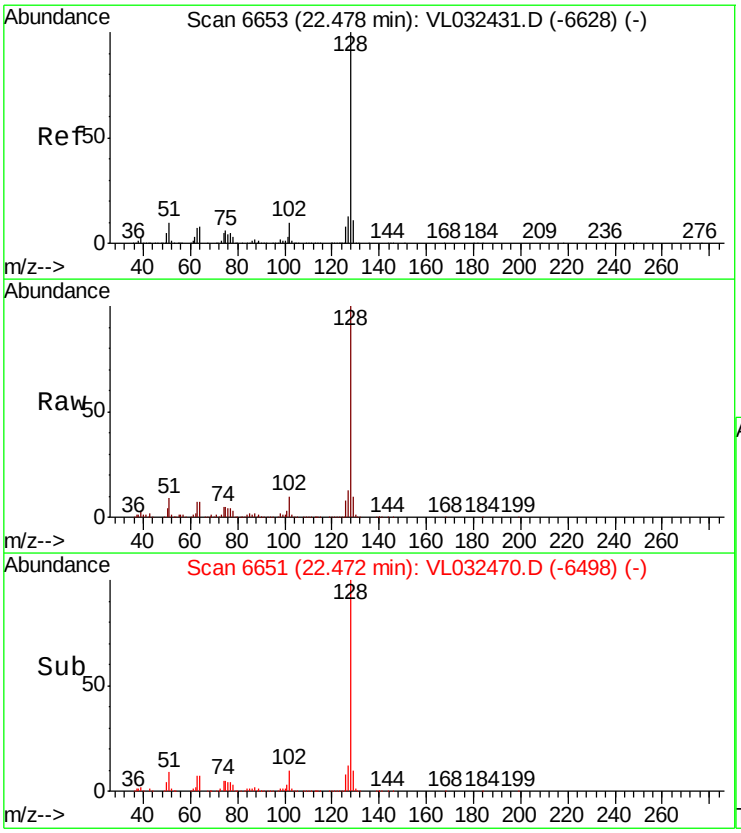
#74
1,2,4-Trimethylbenzene
Concen: 0.102 ppbv
RT: 16.98 min Scan# 4942
Delta R.T. -0.01 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Instrument :
MSVOA_L
ClientSampleId :
VP-2DUP

Tgt Ion:105 Resp: 40562

Ion	Ratio	Lower	Upper
105	100		
120	41.1	37.8	56.8
91	13.7	41.4	62.0#
77	17.6	18.6	28.0#

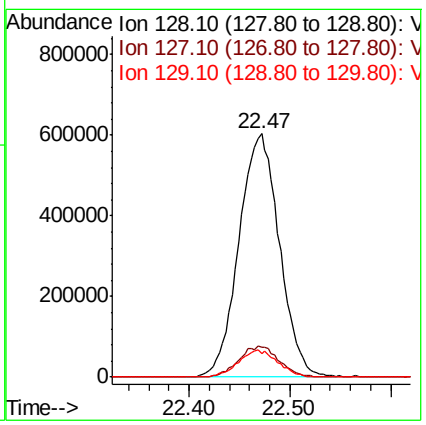


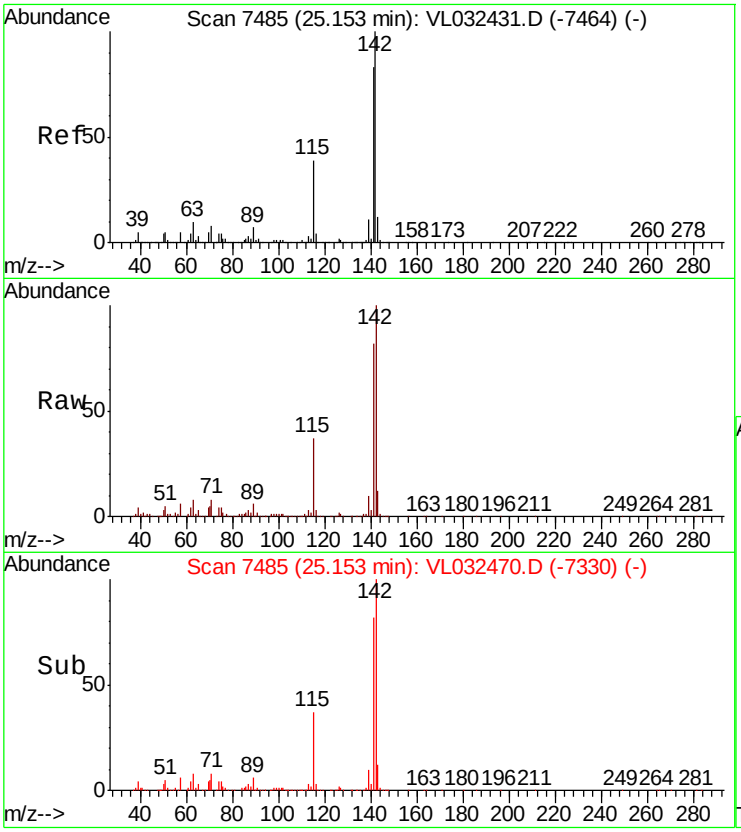


#79
Naphthalene
Concen: 5.151 ppbv
RT: 22.47 min Scan# 6651
Delta R.T. -0.01 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Tgt Ion:128 Resp: 1673522

Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.2	15.2
129	9.7	8.5	12.7





#80
Naphthalene,2-methyl-
Concen: 7.201 ppbv
RT: 25.15 min Scan# 7485
Delta R.T. -0.00 min
Lab File: VL032470.D
Acq: 6 Sep 2018 00:32

Instrument :
MSVOA_L
ClientSampleId :
VP-2DUP

Tgt Ion:142 Resp: 622444

Ion	Ratio	Lower	Upper
142	100		
141	84.2	67.0	100.6
115	38.9	31.3	46.9