Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL081518\
Data File : VL032368.D
Acq On : 16 Aug 2018 2:32
Operator : SY/AP
Sample : J4457-04
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : SS02-MIVI

Manual Integrations APPROVED
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8/17/2018 2:06:49 PM

Quant Time: Aug 16 22:25:53 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 1
QLast Update : Wed Aug 15 14:58:02 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	5.82	49	1713062	10.00	ppbv		0.00
33) 1,4-Difluorobenzene	7.35	114	3613748	10.00	ppbv		0.00
55) Chlorobenzene-d5	12.31	117	3338409	10.00	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	14.64	95	2514634	9.87	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.70%				
Target Compounds							Qvalue
3) Chlorodifluoromethane	3.05	51	38398	0.24	ppbv		97
4) Chloromethane	3.21	50	14271	0.15	ppbv	#	83
9) Propene	3.08	41	254431	3.75	ppbv	#	76
10) Heptane	8.31	43	320215m	1.57	ppbv		
11) Trichlorofluoromethane	4.05	101	56917	0.30	ppbv		84
13) Ethanol	3.70	45	601788	34.50	ppbv		94
15) Acetone	3.94	43	10304033	63.31	ppbv		99
17) tert-Butyl alcohol	4.41	59	276054m	10.11	ppbv		
19) Isopropyl Alcohol	4.08	45	738599	6.74	ppbv	#	95
20) Methylene Chloride	4.46	84	185996	3.03	ppbv		91
26) Hexane	5.83	57	457746	2.94	ppbv	#	53
27) Carbon Disulfide	4.67	76	46867	0.32	ppbv	#	85
29) Chloroform	5.91	83	2058477	9.03	ppbv		100
30) Cyclohexane	7.31	84	198461	1.68	ppbv	#	75
32) 1,1,1-Trichloroethane	6.67	97	12926m	0.06	ppbv		
34) 2-Butanone	5.38	43	962995	3.92	ppbv		99
35) Carbon Tetrachloride	7.19	117	334896	1.57	ppbv		98
36) Benzene	7.07	78	250613	0.82	ppbv		96
38) Trichloroethene	8.02	130	8609m	0.08	ppbv		
44) 2,2,4-Trimethylpentane	8.05	57	67761	0.12	ppbv	#	18
50) 4-Methyl-2-Pentanone	8.94	43	131830	0.37	ppbv		97
51) 2-Hexanone	10.34	43	172688	0.69	ppbv	#	92
52) Tetrachloroethene	11.45	164	5473475	60.58	ppbv		94
53) Toluene	10.02	91	4223338	12.58	ppbv		100
58) Ethyl Benzene	12.93	91	394973	0.98	ppbv		98
59) m/p-Xylene	13.19	91	1731473	5.07	ppbv		99
60) o-Xylene	13.92	91	815359	2.43	ppbv		99
61) Styrene	13.75	104	90109m	0.38	ppbv		
62) Isopropylbenzene	14.89	105	65164	0.14	ppbv		94
64) n-propylbenzene	15.79	120	27480m	0.22	ppbv		
67) sec-Butylbenzene	17.53	105	91405m	0.15	ppbv		
70) n-Butylbenzene	18.79	91	106600m	0.21	ppbv		
72) 4-Ethyltoluene	16.06	105	133324	0.36	ppbv		96
73) 1,3,5-Trimethylbenzene	16.22	105	663266	1.84	ppbv		96
74) 1,2,4-Trimethylbenzene	16.99	105	1108333	2.90	ppbv	#	71
79) Naphthalene	22.49	128	551076	1.82	ppbv		98
80) Naphthalene,2-methyl-	25.16	142	71939	0.94	ppbv		97

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

Quantitation Report (QT Reviewed)

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Data File : VL032368.D
Acq On : 16 Aug 2018 2:32
Operator : SY/AP
Sample : J4457-04
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 16 22:25:53 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug
QLast Update : Wed Aug 15 14:58:02 2018
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
SS02-MIVI

Manual Integrations APPROVED
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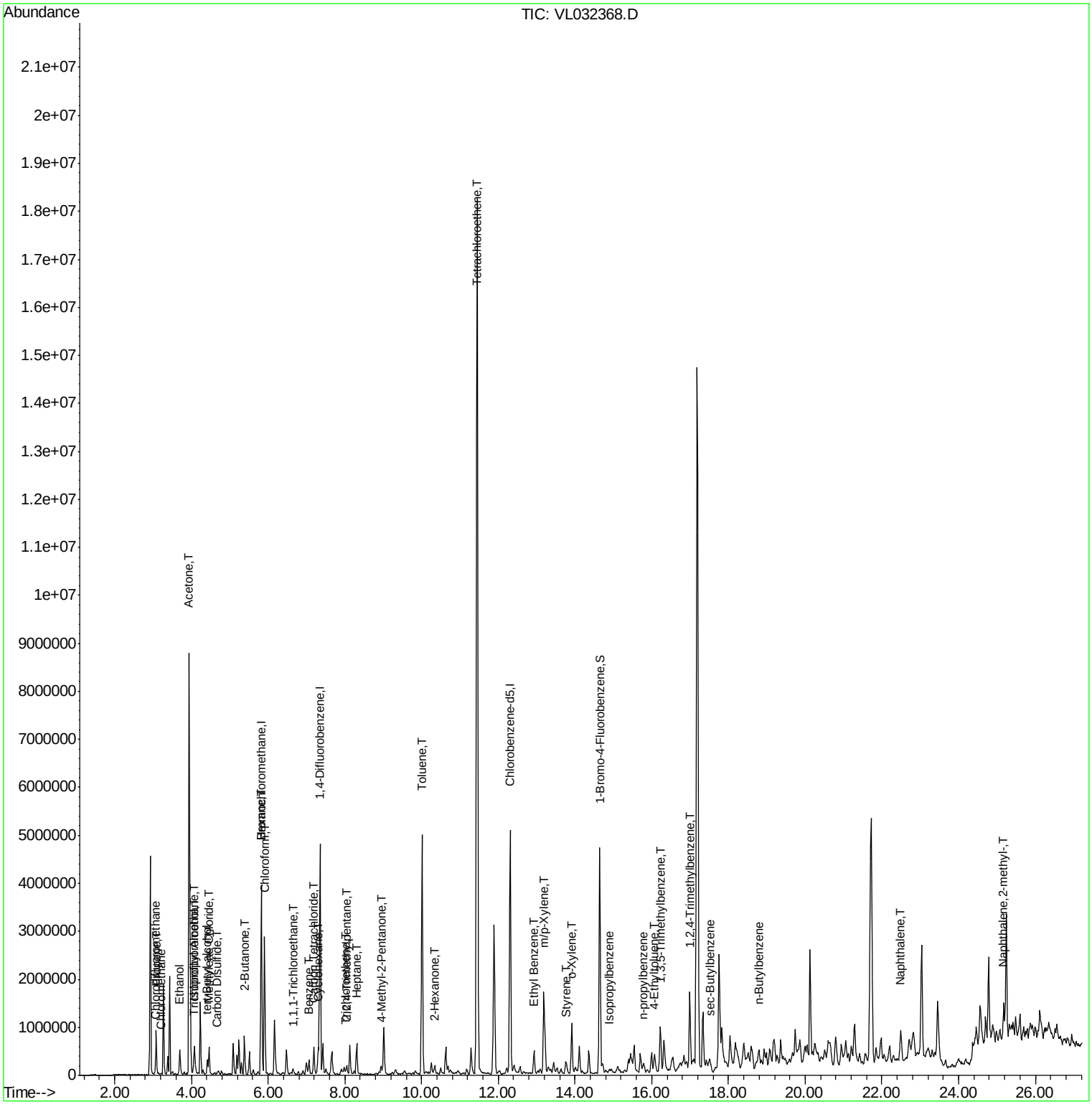
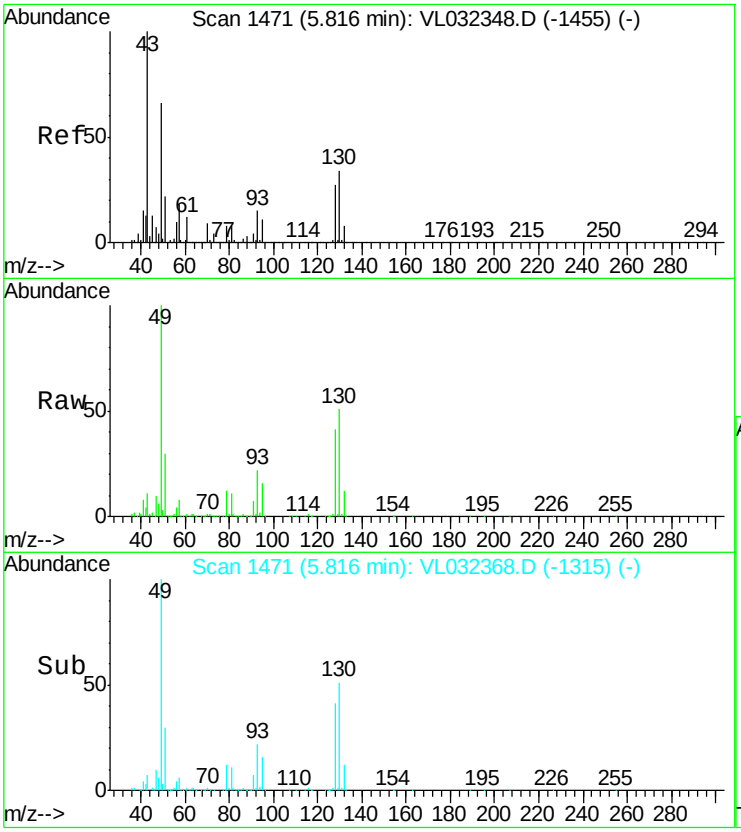
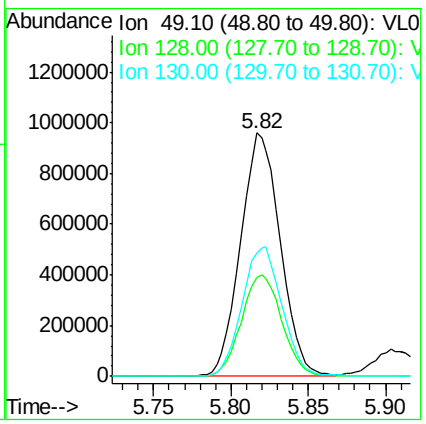




#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 5.82 min Scan# 1471
Delta R.T. 0.00 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion: 49 Resp: 1713062

Ion	Ratio	Lower	Upper
49	100		
128	42.6	20.5	61.6
130	54.0	26.2	78.5



Instrument :
MSVOA_L
ClientSampleId :
SS02-MIVI

Manual Integrations APPROVED
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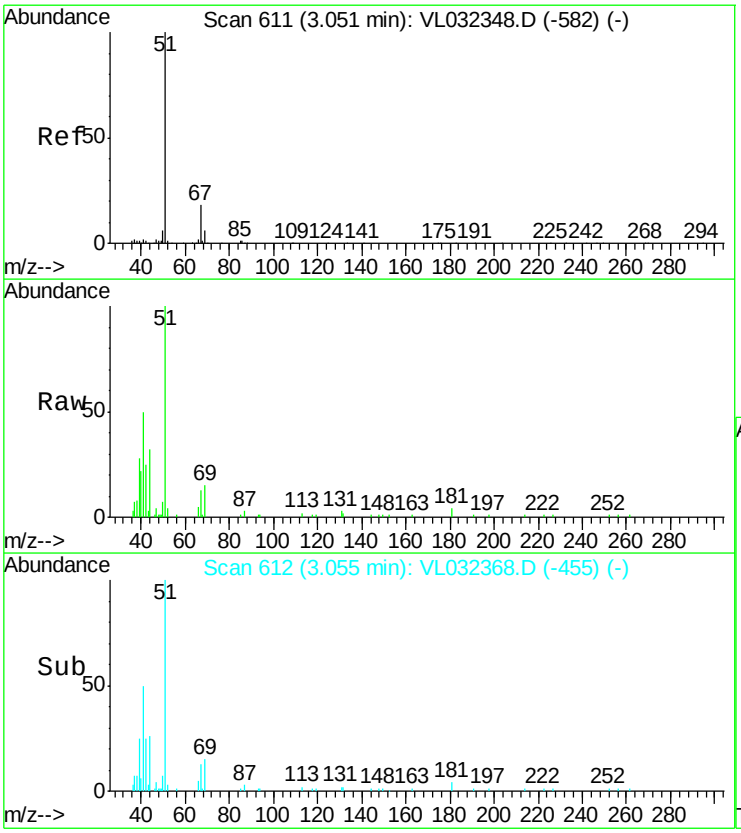
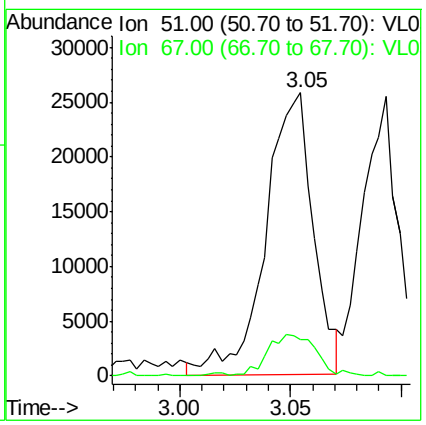
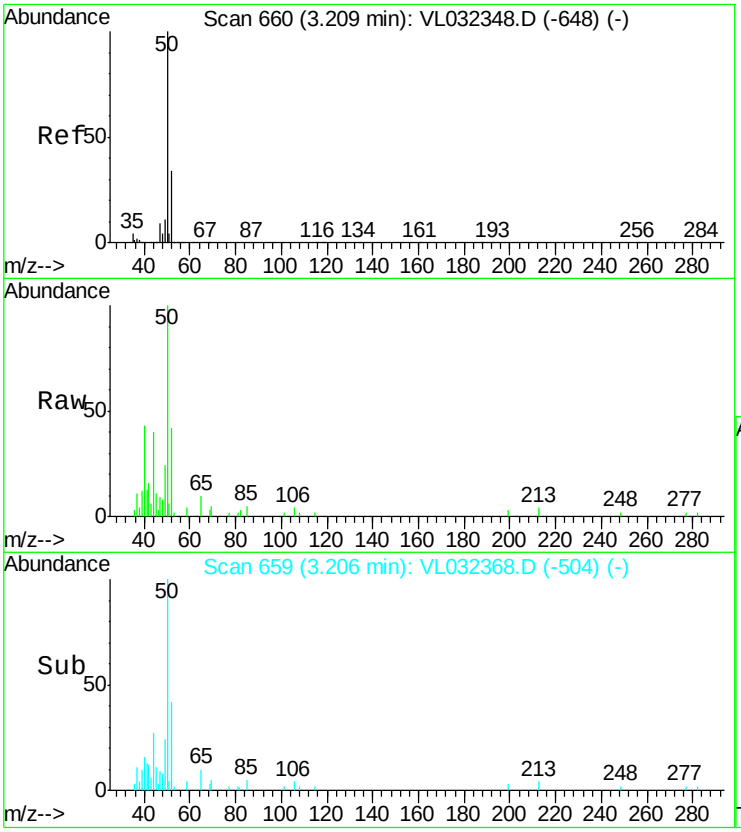


#3
Chlorodifluoromethane
Concen: 0.24 ppbv
RT: 3.05 min Scan# 612
Delta R.T. 0.00 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion: 51 Resp: 38398

Ion	Ratio	Lower	Upper
51	100		
67	15.7	13.7	20.5





#4
Chloromethane
Concen: 0.15 ppbv
RT: 3.21 min Scan# 659
Delta R.T. -0.00 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion: 50 Resp: 14271

Ion	Ratio	Lower	Upper
50	100		
52	43.1	26.8	40.2#

Instrument :
MSVOA_L
ClientSampleId :
SS02-MIVI

Manual Integrations APPROVED
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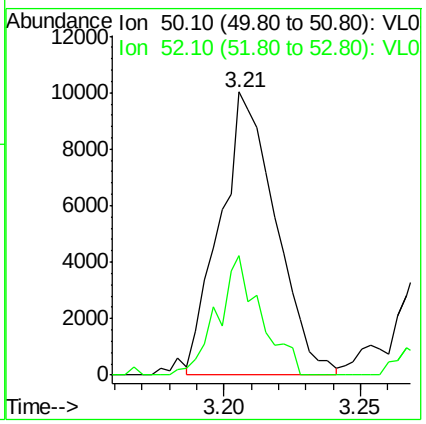
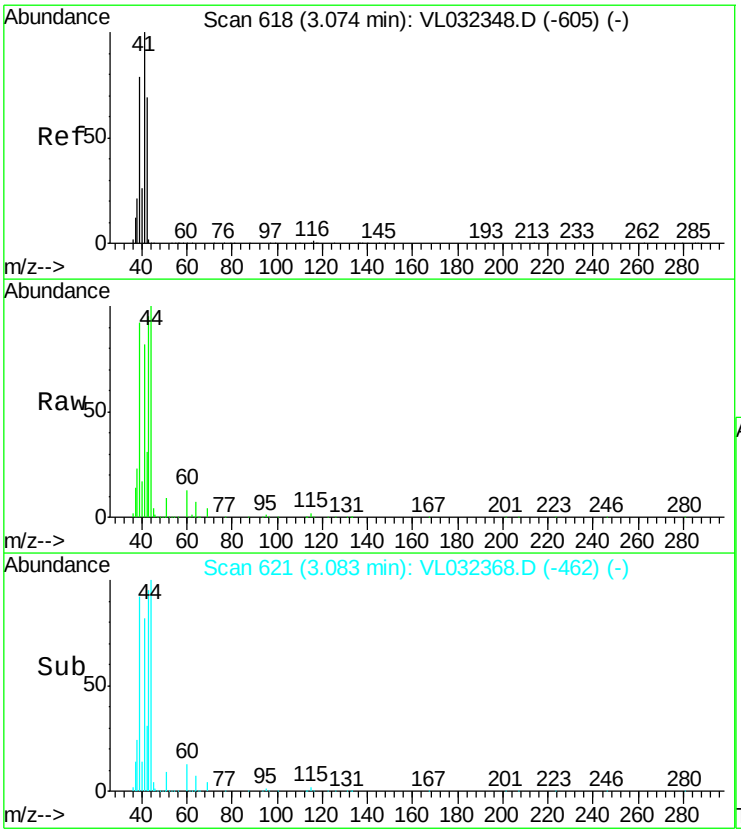
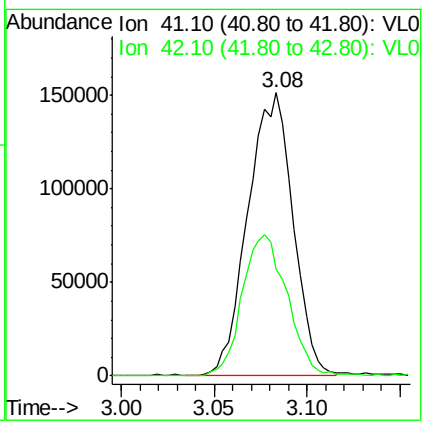


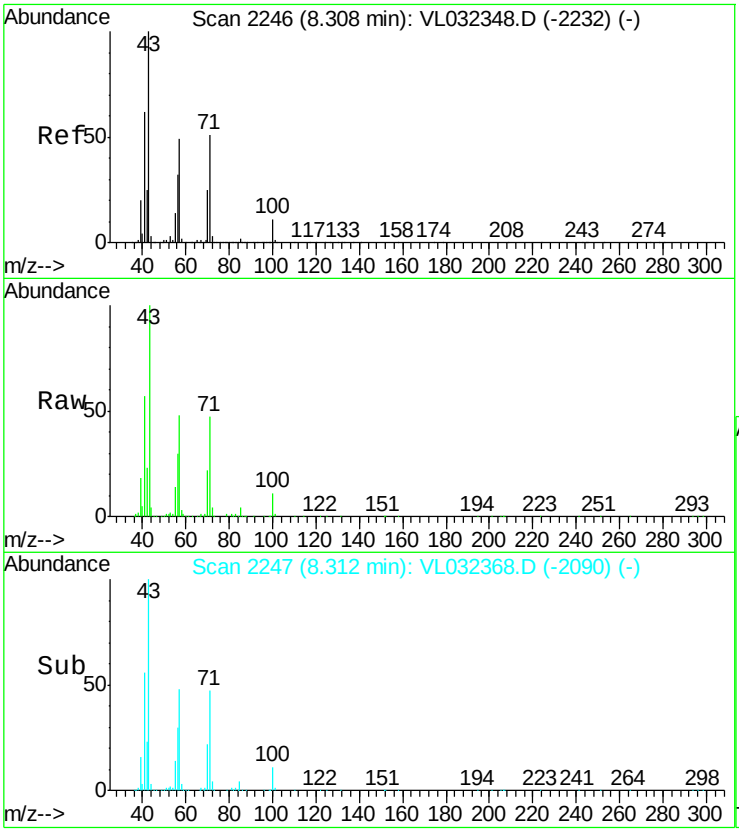


#9
Propene
Concen: 3.75 ppbv
RT: 3.08 min Scan# 621
Delta R.T. 0.01 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion: 41 Resp: 254431

Ion	Ratio	Lower	Upper
41	100		
42	49.9	55.9	83.9#





#10
Heptane
Concen: 1.57 ppbv m
RT: 8.31 min Scan# 2247
Delta R.T. 0.00 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion: 43 Resp: 320215

Ion	Ratio	Lower	Upper
43	100		
57	0.0	39.5	59.3#

Instrument :
MSVOA_L
ClientSampleId :
SS02-MIVI

Manual Integrations APPROVED
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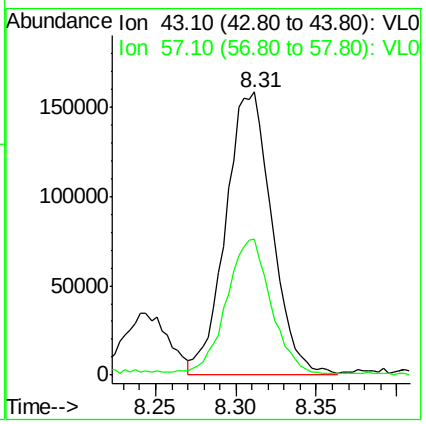
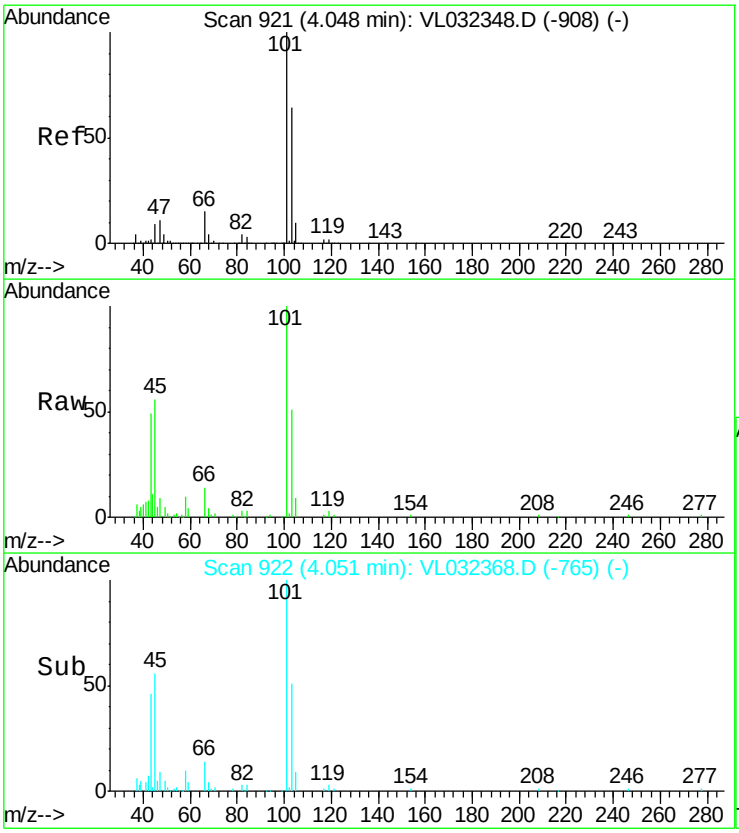
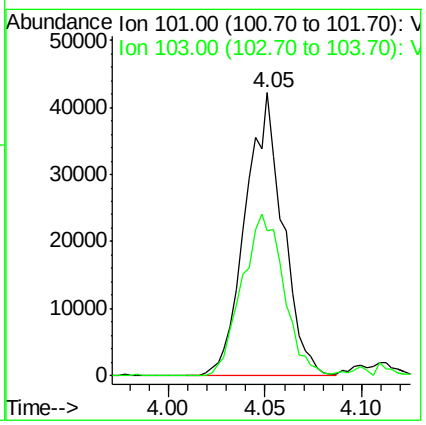


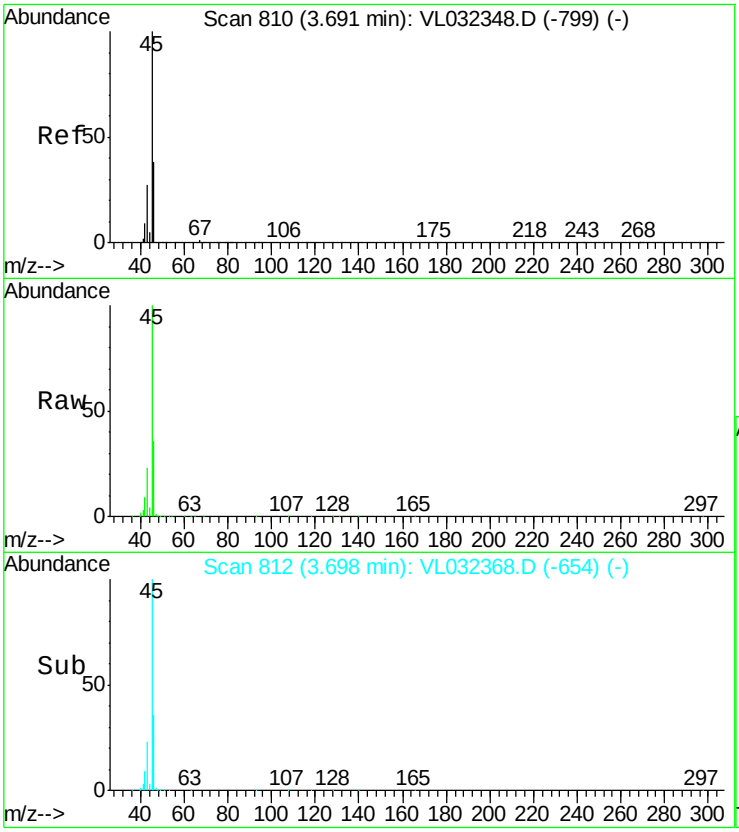


#11
Trichlorofluoromethane
Concen: 0.30 ppbv
RT: 4.05 min Scan# 922
Delta R.T. 0.00 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion:101 Resp: 56917

Ion	Ratio	Lower	Upper
101	100		
103	51.4	51.4	77.0

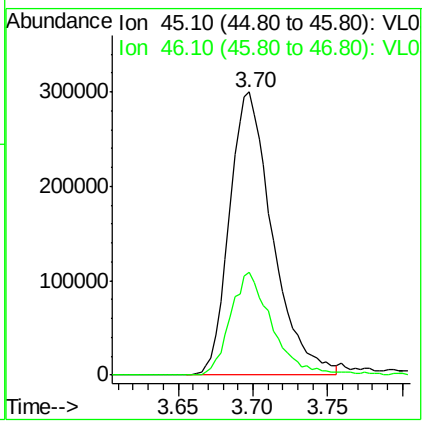




#13
Ethanol
Concen: 34.50 ppbv
RT: 3.70 min Scan# 812
Delta R.T. 0.01 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion: 45 Resp: 601788

Ion	Ratio	Lower	Upper
45	100		
46	35.5	15.6	62.4



Instrument :
MSVOA_L
ClientSampleId :
SS02-MIVI

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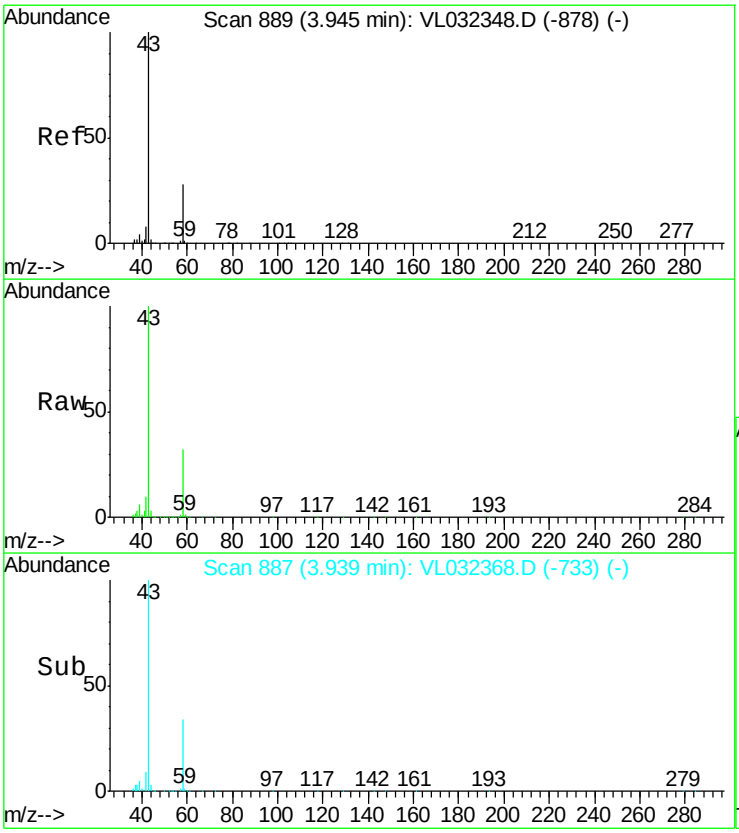
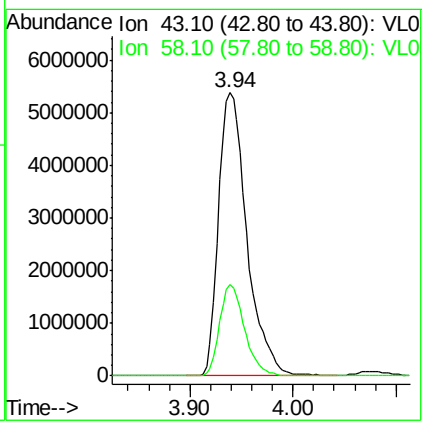
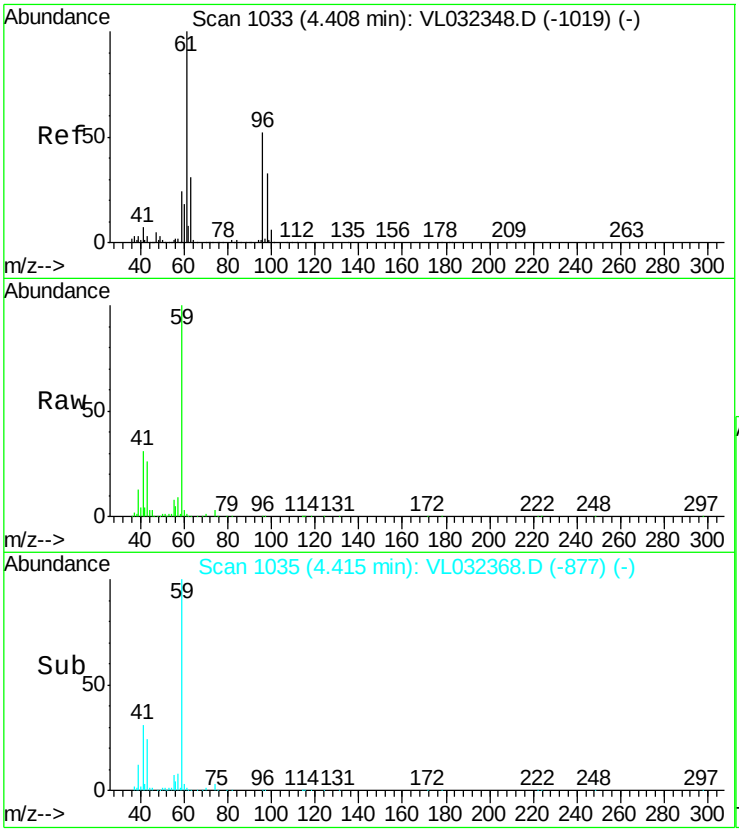


#15
Acetone
Concen: 63.31 ppbv
RT: 3.94 min Scan# 887
Delta R.T. -0.01 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion: 43 Resp:10304033

Ion	Ratio	Lower	Upper
43	100		
58	28.6	22.4	33.6





#17
tert-Butyl alcohol
Concen: 10.11 ppbv m
RT: 4.41 min Scan# 1035
Delta R.T. 0.01 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion: 59 Resp: 276054

Ion	Ratio	Lower	Upper
59	100		
57	0.0	7.6	11.4#

Instrument :
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ClientSampleId :
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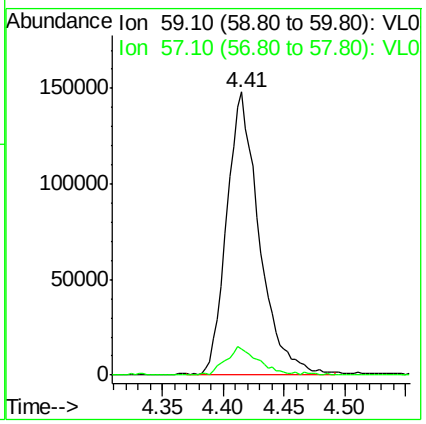
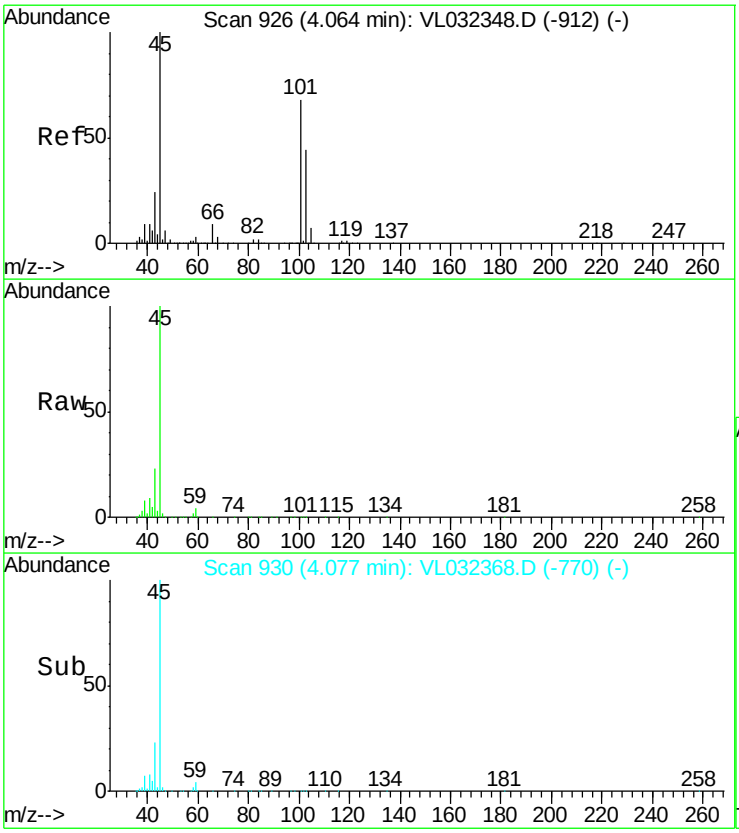
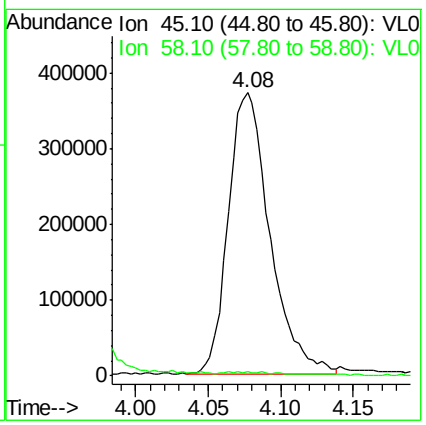


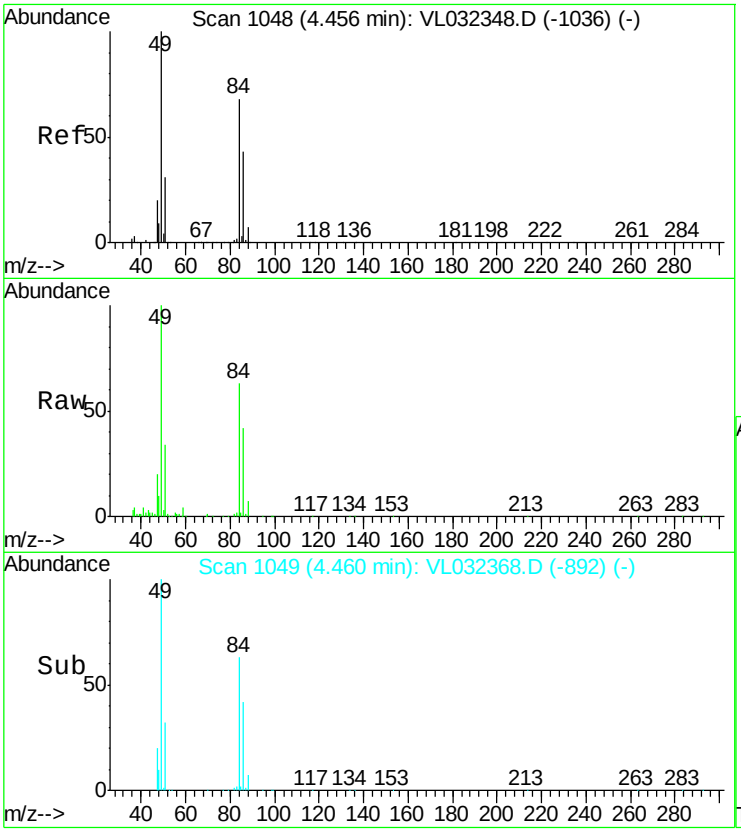


#19
Isopropyl Alcohol
Concen: 6.74 ppbv
RT: 4.08 min Scan# 930
Delta R.T. 0.01 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion: 45 Resp: 738599

Ion	Ratio	Lower	Upper
45	100		
58	0.0	1.4	2.0#

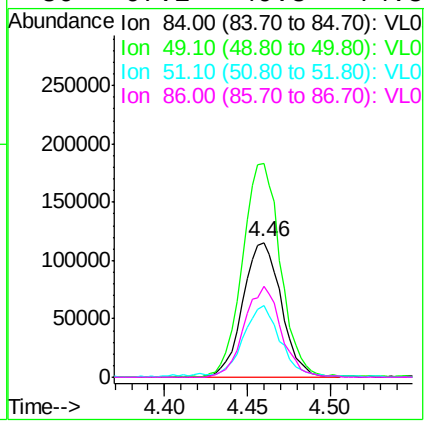




#20
Methylene Chloride
Concen: 3.03 ppbv
RT: 4.46 min Scan# 1049
Delta R.T. 0.00 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion: 84 Resp: 185996

Ion	Ratio	Lower	Upper
84	100		
49	158.2	117.3	175.9
51	52.7	36.6	55.0
86	67.2	49.8	74.8



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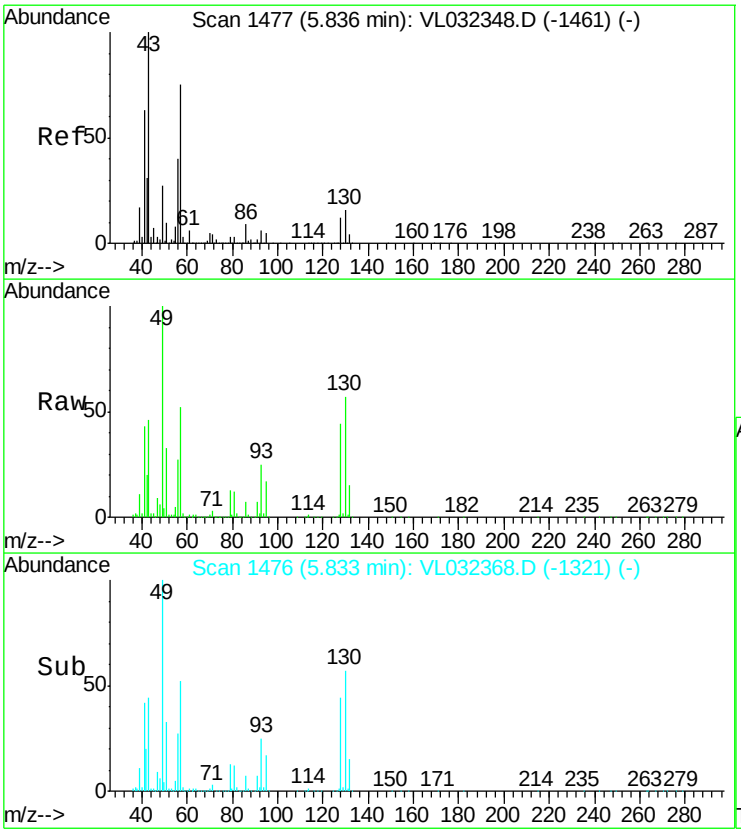
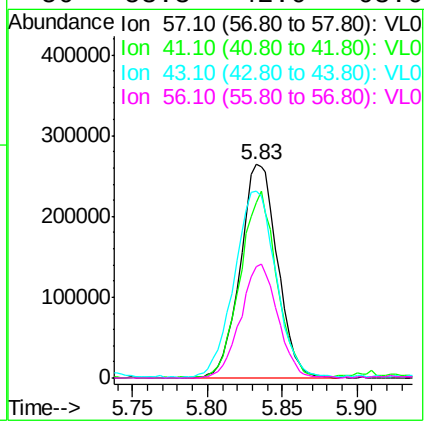
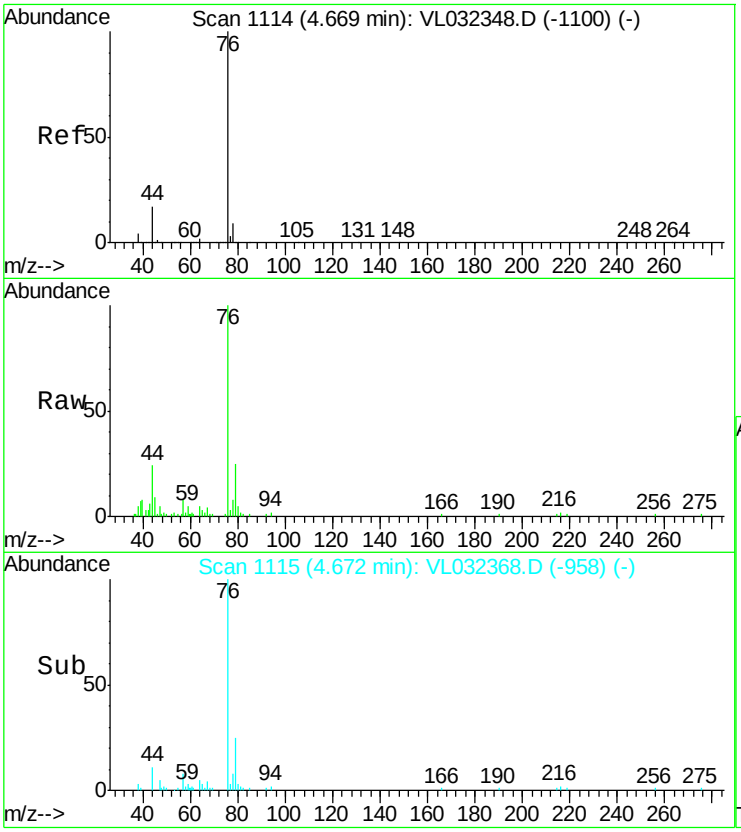


#26
Hexane
Concen: 2.94 ppbv
RT: 5.83 min Scan# 1476
Delta R.T. -0.00 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion: 57 Resp: 457746

Ion	Ratio	Lower	Upper
57	100		
41	85.9	68.0	102.0
43	96.9	175.3	262.9#
56	53.3	42.0	63.0

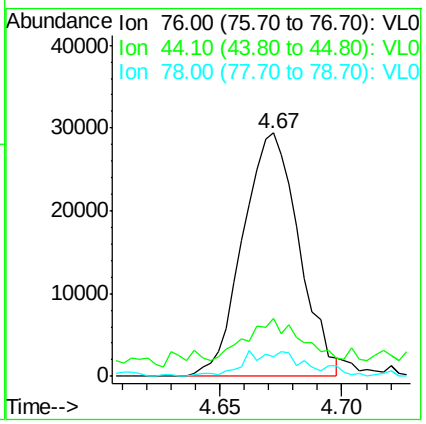




#27
Carbon Disulfide
Concen: 0.32 ppbv
RT: 4.67 min Scan# 1115
Delta R.T. 0.00 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion: 76 Resp: 46867

Ion	Ratio	Lower	Upper
76	100		
44	26.2	14.4	21.6#
78	12.5	7.4	11.0#



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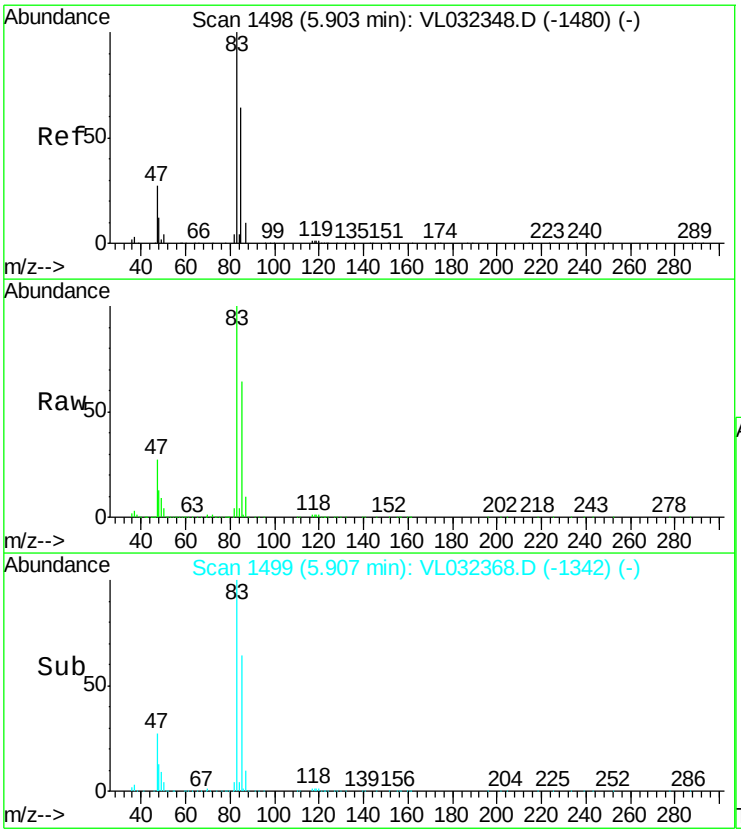
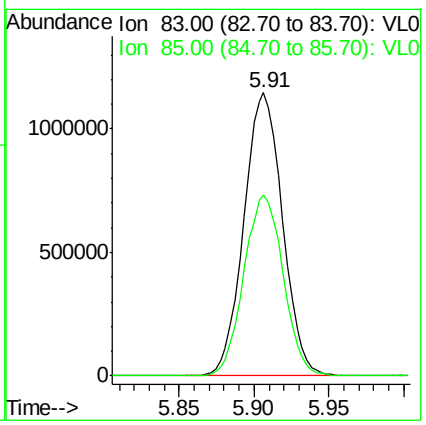
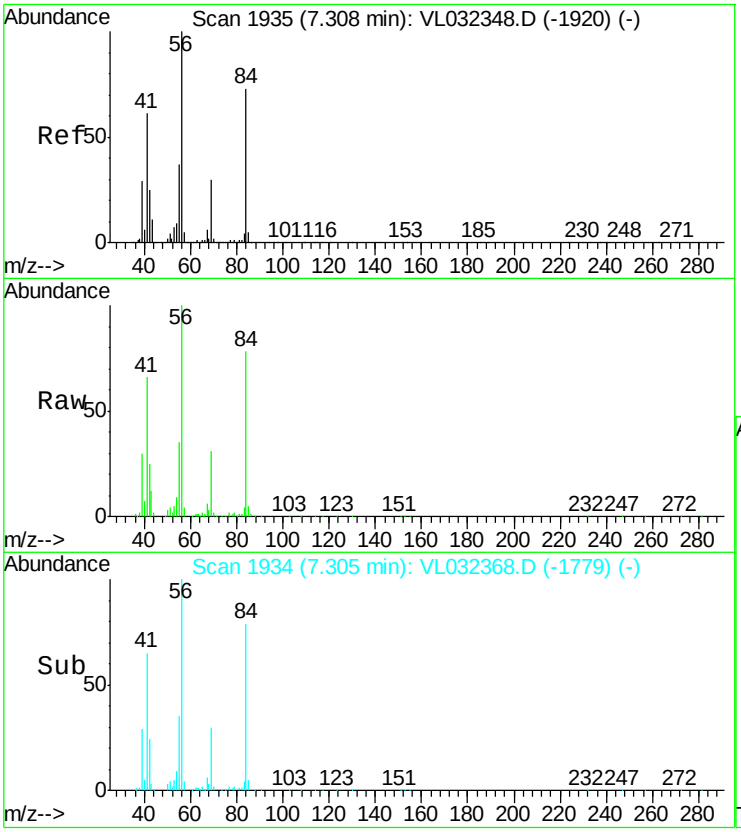


#29
Chloroform
Concen: 9.03 ppbv
RT: 5.91 min Scan# 1499
Delta R.T. 0.00 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion: 83 Resp: 2058477

Ion	Ratio	Lower	Upper
83	100		
85	64.1	51.6	77.4

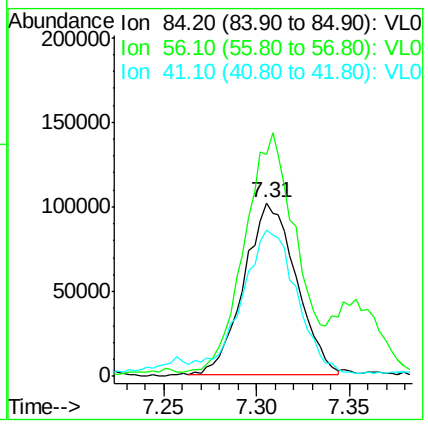




#30
Cyclohexane
Concen: 1.68 ppbv
RT: 7.31 min Scan# 1934
Delta R.T. -0.00 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion: 84 Resp: 198461

Ion	Ratio	Lower	Upper
84	100		
56	182.0	115.7	173.5#
41	99.9	67.9	101.9



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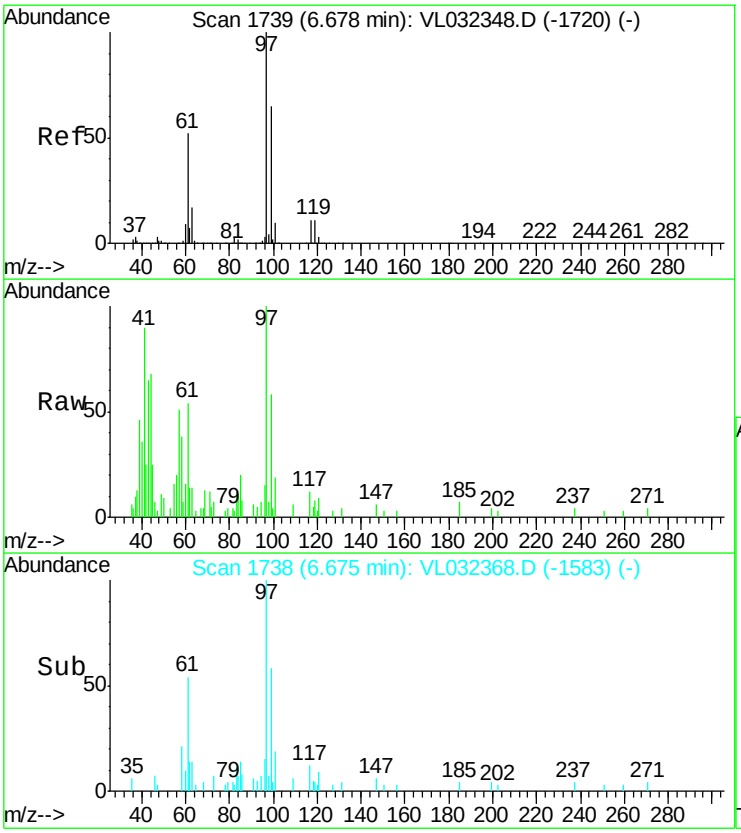
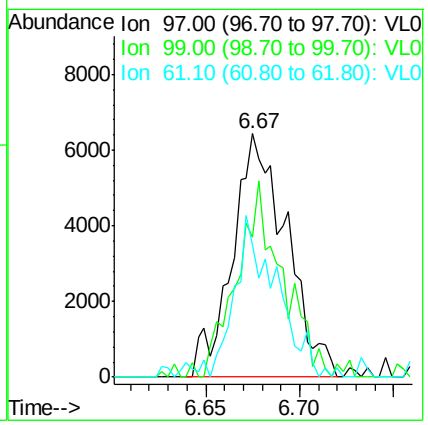
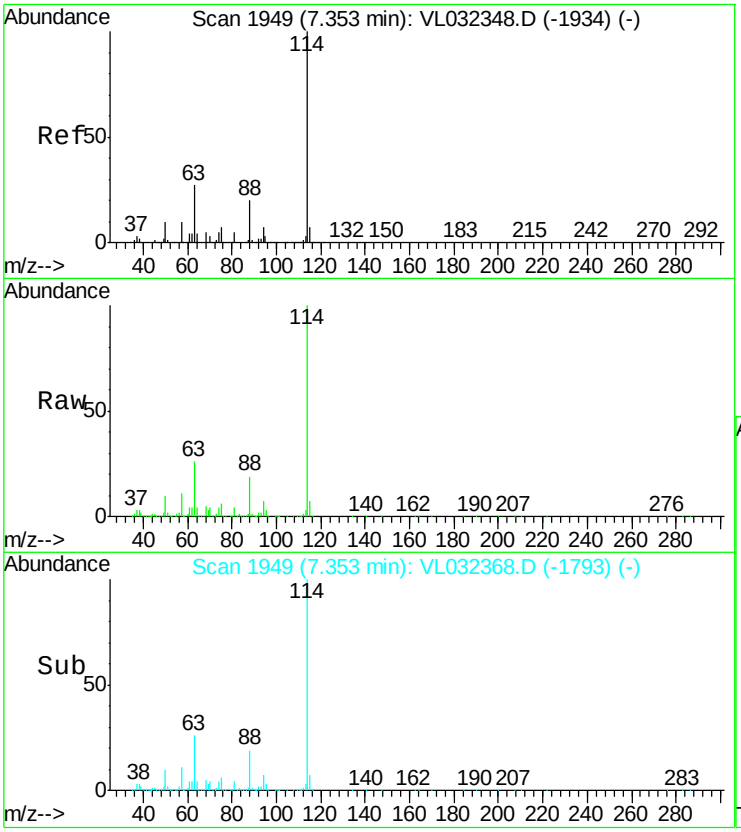


#32
1,1,1-Trichloroethane
Concen: 0.06 ppbv m
RT: 6.67 min Scan# 1738
Delta R.T. -0.00 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion: 97 Resp: 12926

Ion	Ratio	Lower	Upper
97	100		
99	67.4	51.1	76.7
61	53.5	41.1	61.7

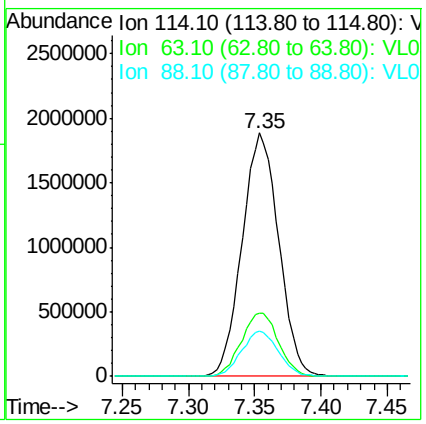




#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.35 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion:114 Resp: 3613748

Ion	Ratio	Lower	Upper
114	100		
63	26.5	22.0	33.0
88	18.7	15.3	22.9



Instrument :
MSVOA_L
ClientSampleId :
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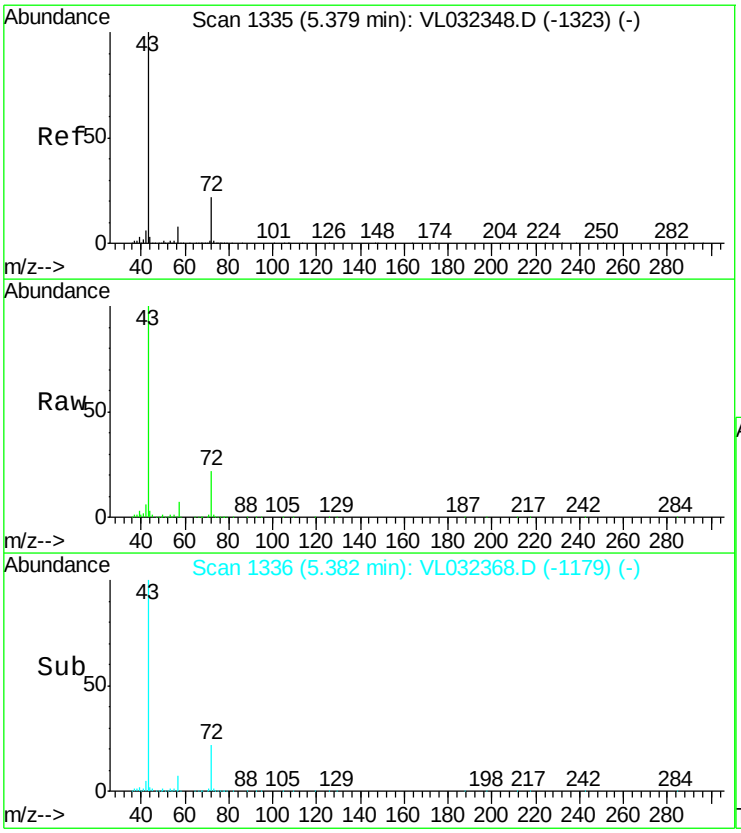
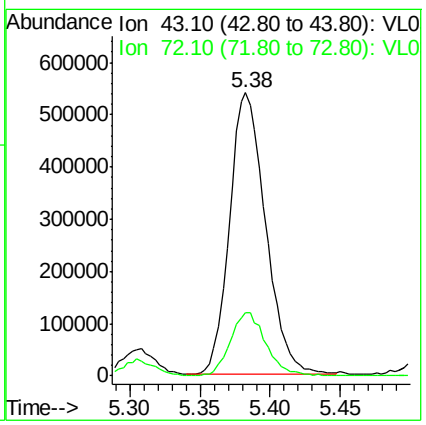
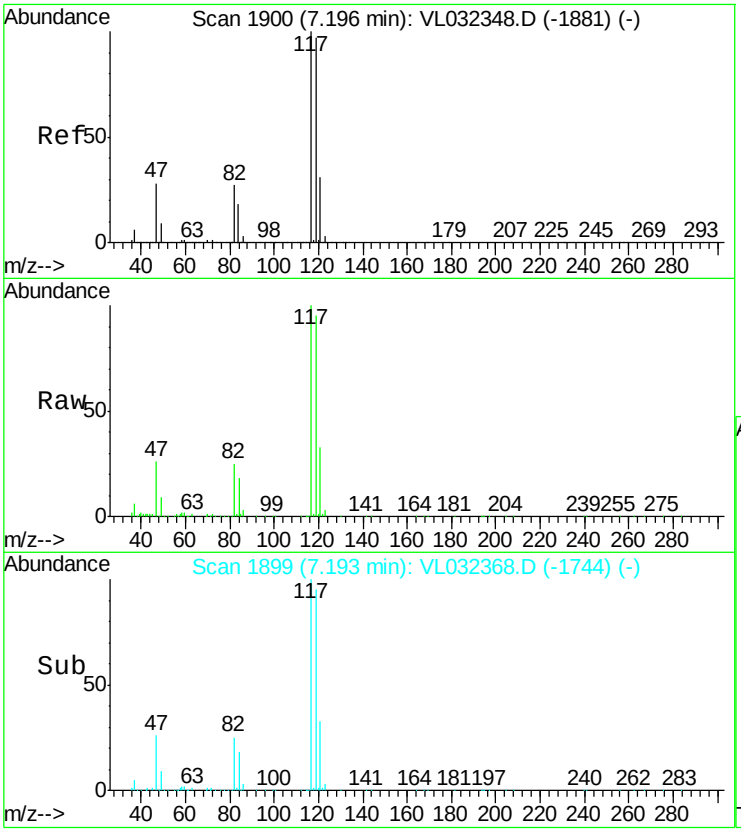


#34
2-Butanone
Concen: 3.92 ppbv
RT: 5.38 min Scan# 1336
Delta R.T. 0.00 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion: 43 Resp: 962995

Ion	Ratio	Lower	Upper
43	100		
72	22.1	17.9	26.9

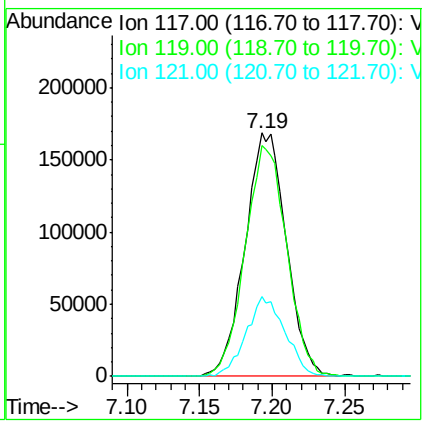




#35
Carbon Tetrachloride
Concen: 1.57 ppbv
RT: 7.19 min Scan# 1899
Delta R.T. -0.00 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion:117 Resp: 334896

Ion	Ratio	Lower	Upper
117	100		
119	94.9	77.2	115.8
121	32.9	25.1	37.7



Instrument :
MSVOA_L
ClientSampleId :
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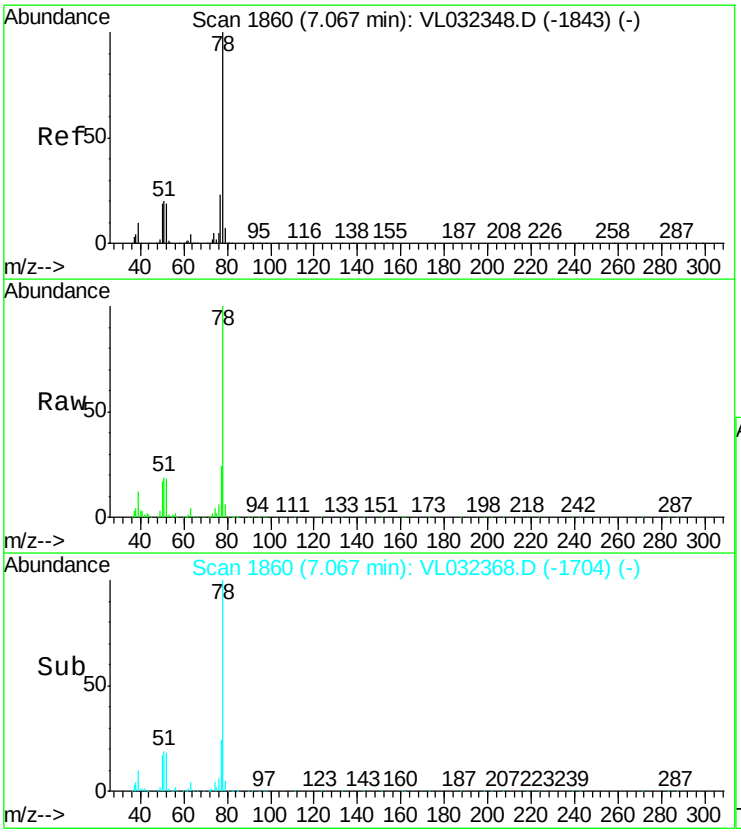
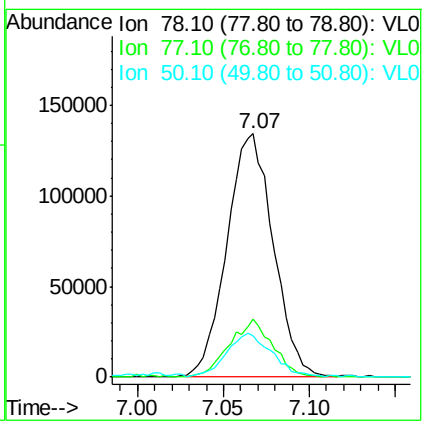
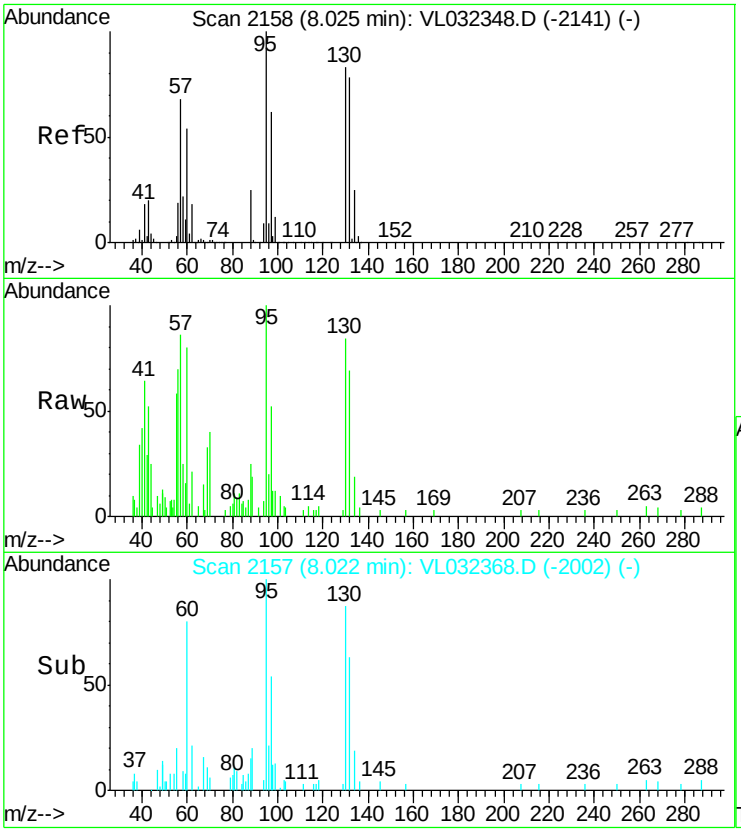


#36
Benzene
Concen: 0.82 ppbv
RT: 7.07 min Scan# 1860
Delta R.T. 0.00 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion: 78 Resp: 250613

Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.0	27.0
50	16.6	15.1	22.7

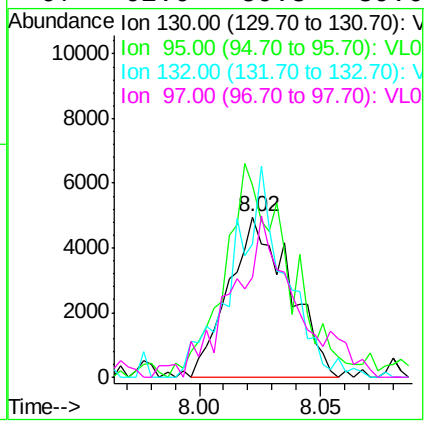




#38
Trichloroethene
Concen: 0.08 ppbv m
RT: 8.02 min Scan# 2157
Delta R.T. -0.00 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion:130 Resp: 8609

Ion	Ratio	Lower	Upper
130	100		
95	119.4	96.6	144.8
132	82.9	75.5	113.3
97	62.0	59.8	89.6



Instrument :
MSVOA_L
ClientSampleId :
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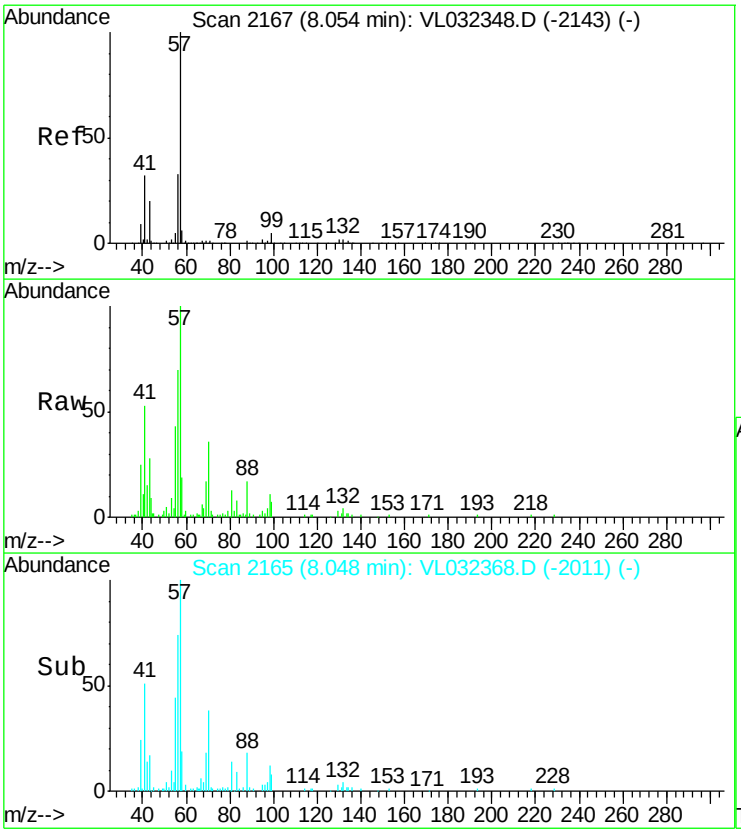
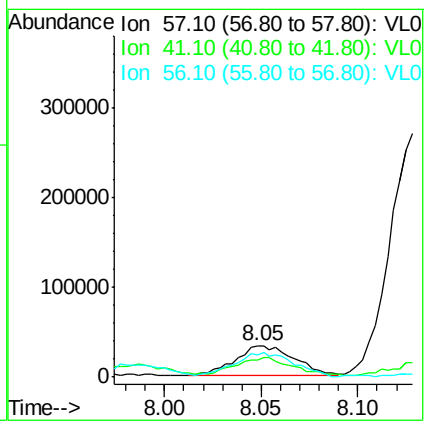
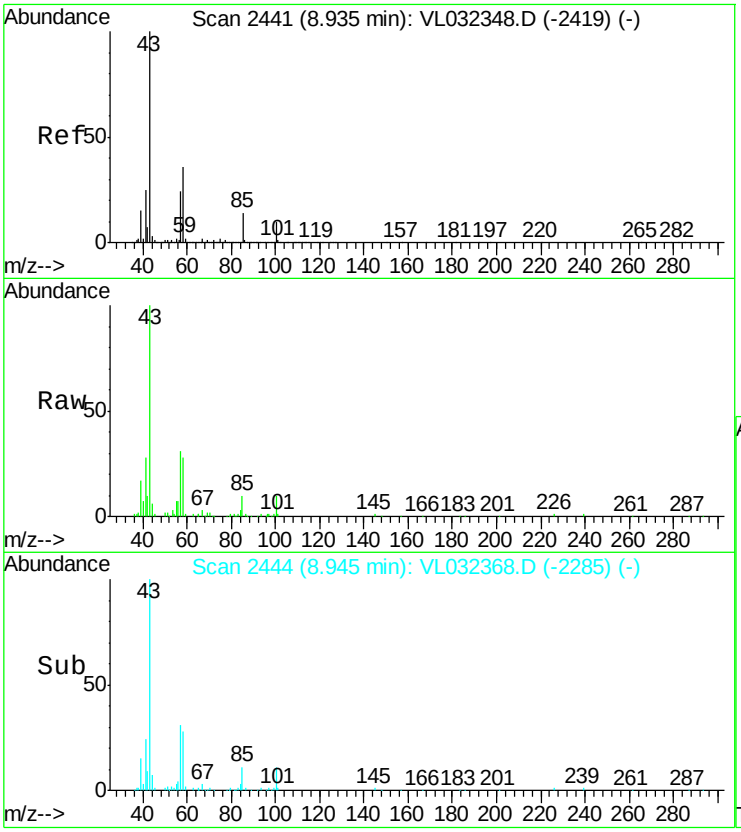


#44
2,2,4-Trimethylpentane
Concen: 0.12 ppbv
RT: 8.05 min Scan# 2165
Delta R.T. -0.01 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion: 57 Resp: 67761

Ion	Ratio	Lower	Upper
57	100		
41	68.1	24.3	36.5#
56	84.4	25.7	38.5#





#50
4-Methyl-2-Pentanone
Concen: 0.37 ppbv
RT: 8.94 min Scan# 2444
Delta R.T. 0.01 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion: 43 Resp: 131830

Ion	Ratio	Lower	Upper
43	100		
58	34.2	28.9	43.3

Instrument :
MSVOA_L
ClientSampleId :
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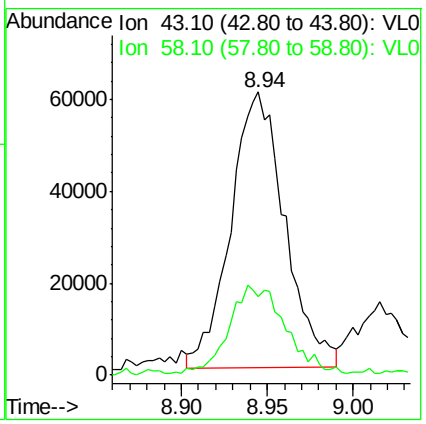
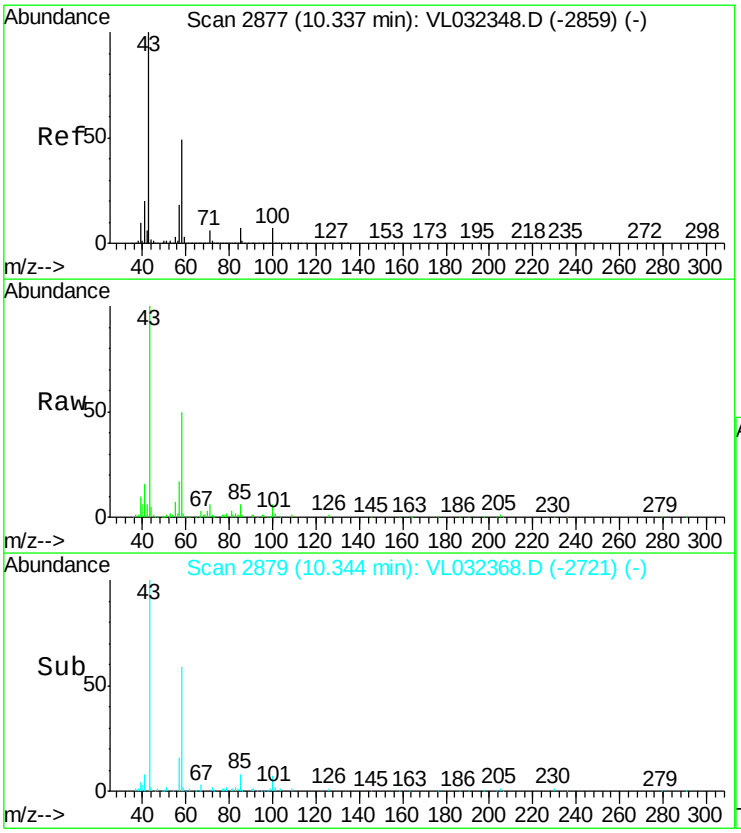
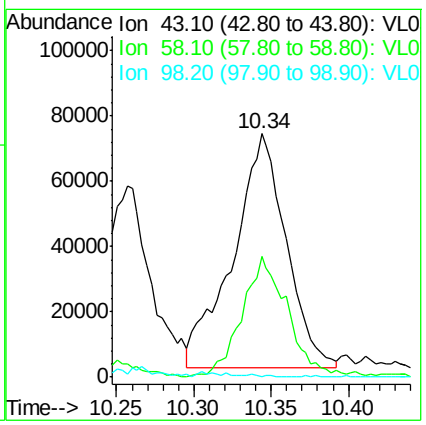


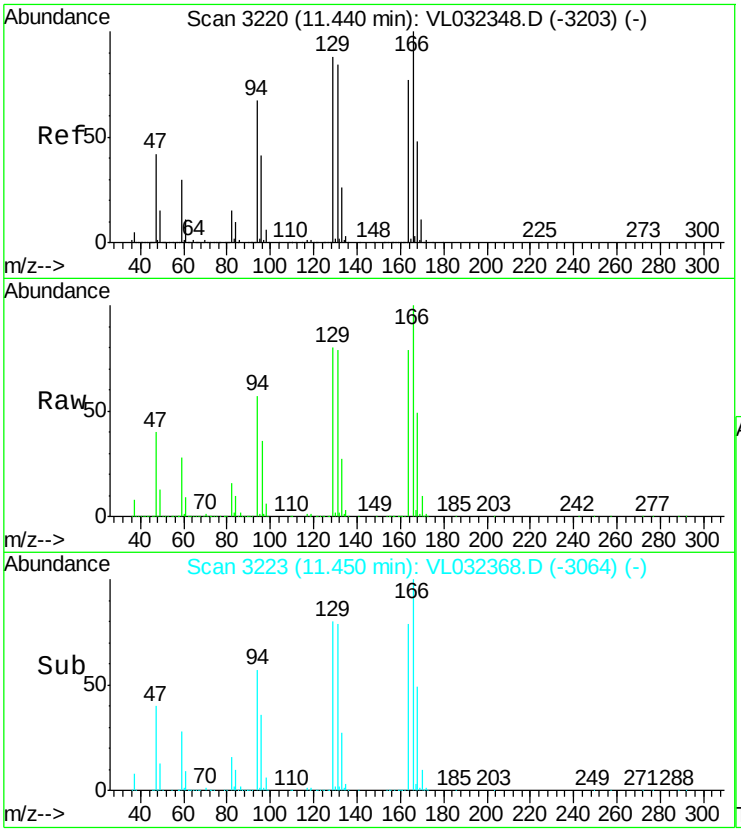


#51
2-Hexanone
Concen: 0.69 ppbv
RT: 10.34 min Scan# 2879
Delta R.T. 0.01 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion: 43 Resp: 172688

Ion	Ratio	Lower	Upper
43	100		
58	44.2	39.5	59.3
98	1.4	0.3	0.5#

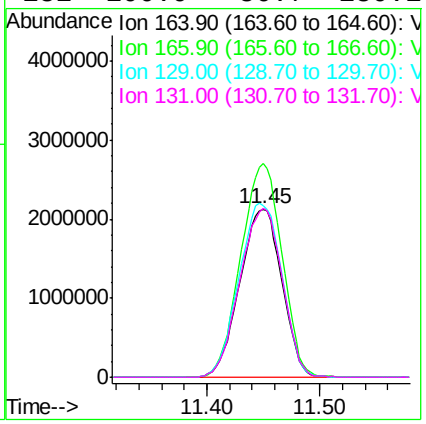




#52
Tetrachloroethene
Concen: 60.58 ppbv
RT: 11.45 min Scan# 3223
Delta R.T. 0.01 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion:164 Resp: 5473475

Ion	Ratio	Lower	Upper
164	100		
166	127.3	103.5	155.3
129	102.1	90.9	136.3
131	100.9	86.7	130.1



Instrument :
MSVOA_L
ClientSampleId :
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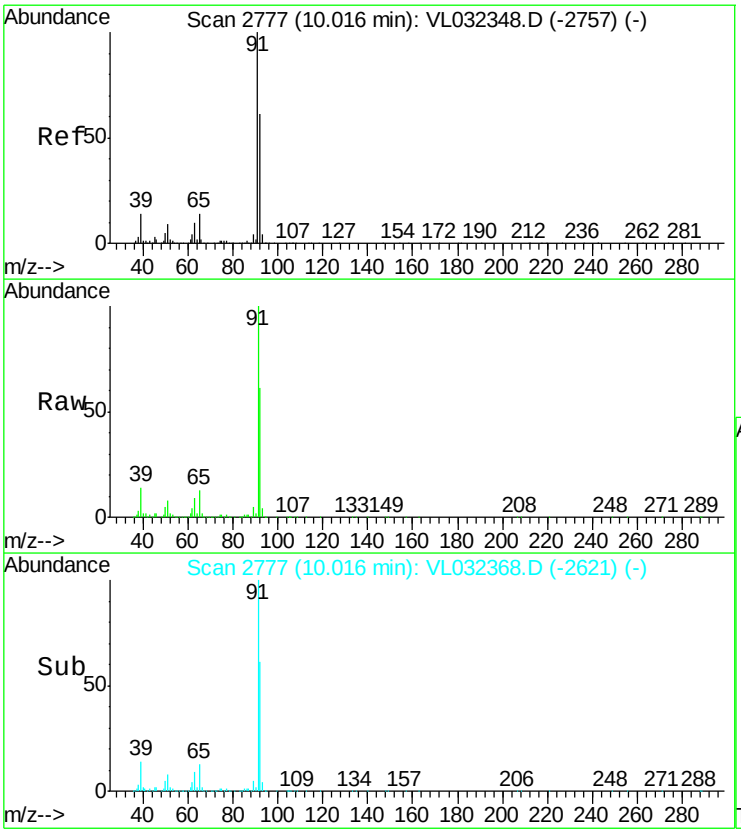
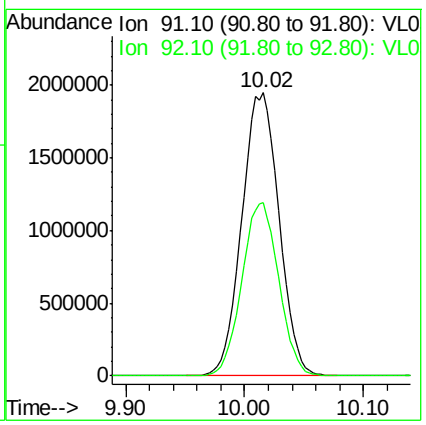
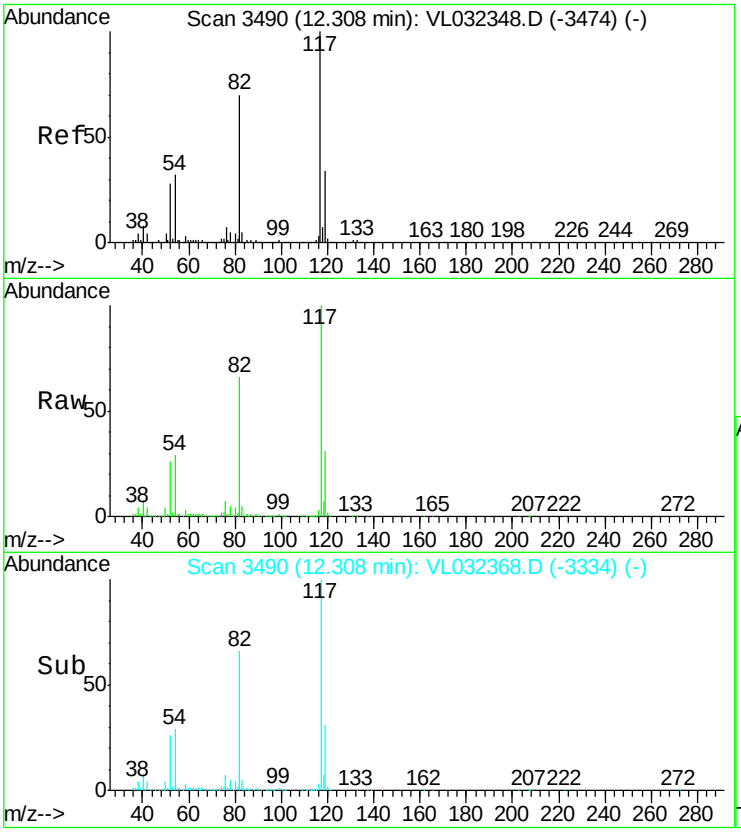


#53
Toluene
Concen: 12.58 ppbv
RT: 10.02 min Scan# 2777
Delta R.T. 0.00 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion: 91 Resp: 4223338

Ion	Ratio	Lower	Upper
91	100		
92	60.6	48.7	73.1





#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.31 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion:117 Resp: 3338409

Ion	Ratio	Lower	Upper
117	100		
82	67.1	55.1	82.7
119	32.5	46.0	69.0#

Instrument :
MSVOA_L
ClientSampleId :
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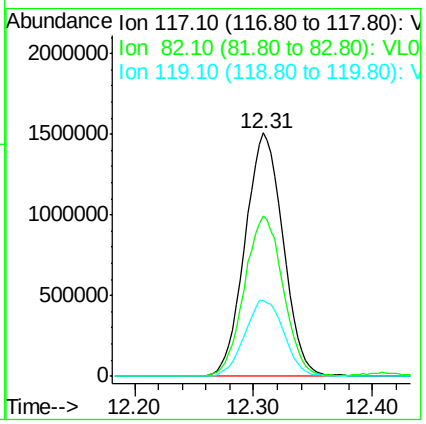
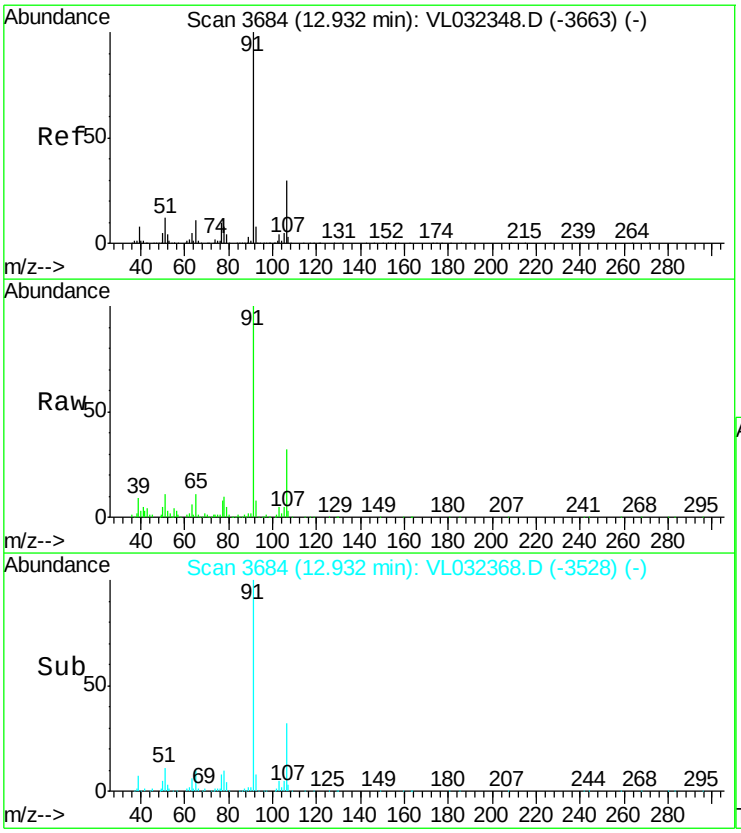
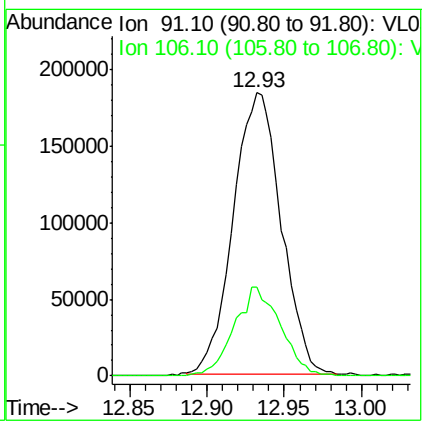


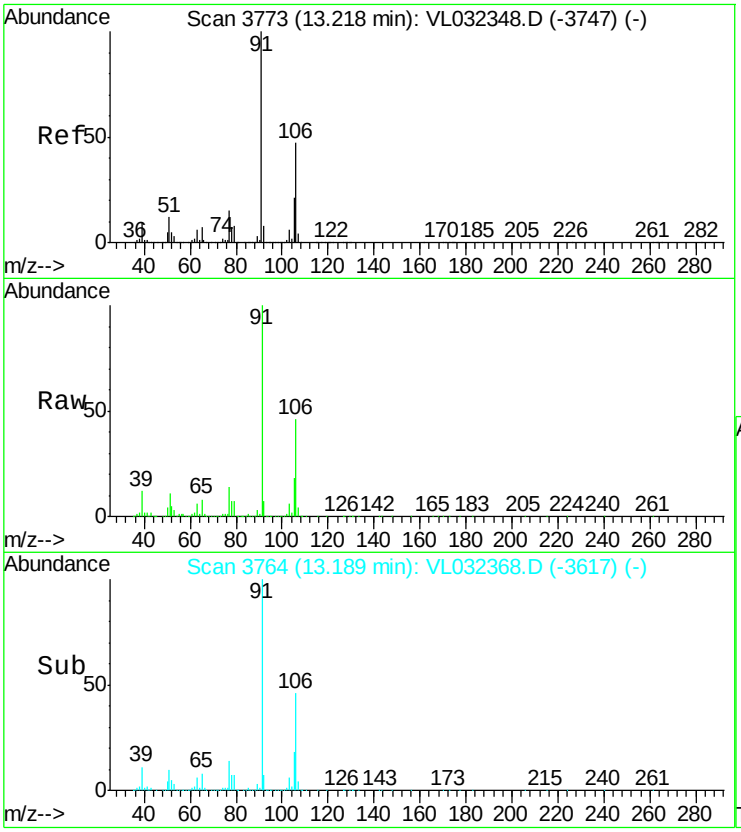


#58
Ethyl Benzene
Concen: 0.98 ppbv
RT: 12.93 min Scan# 3684
Delta R.T. 0.00 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion: 91 Resp: 394973

Ion	Ratio	Lower	Upper
91	100		
106	31.7	24.3	36.5





#59
m/p-Xylene
Concen: 5.07 ppbv
RT: 13.19 min Scan# 3764
Delta R.T. -0.03 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion: 91 Resp: 1731473

Ion	Ratio	Lower	Upper
91	100		
106	46.7	37.0	55.4

Instrument :
MSVOA_L
ClientSampleId :
SS02-MIVI

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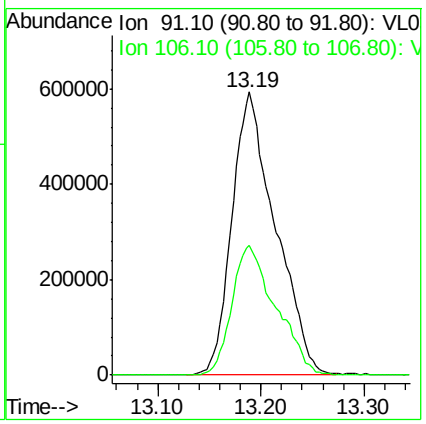
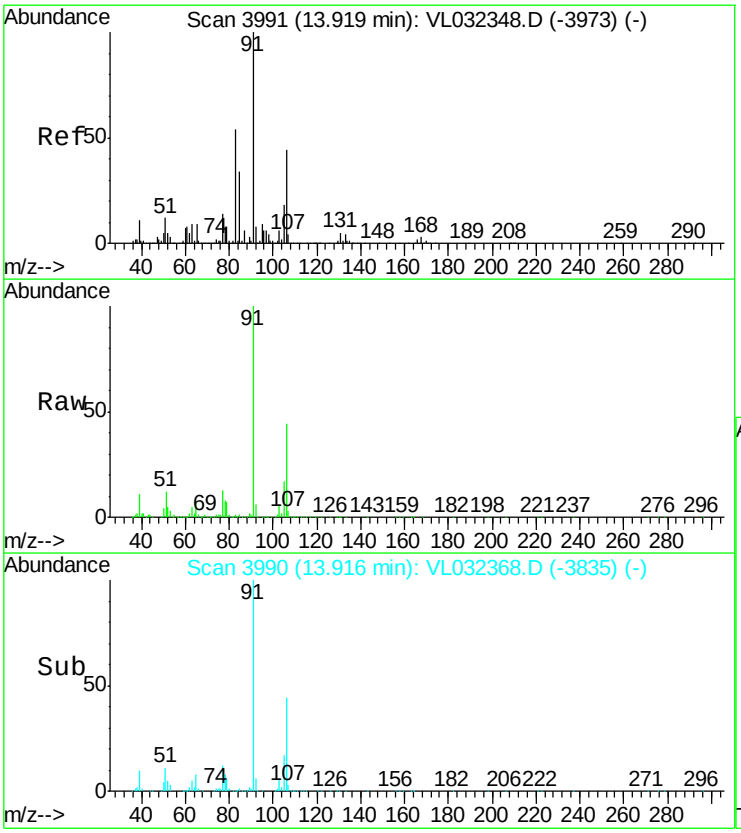
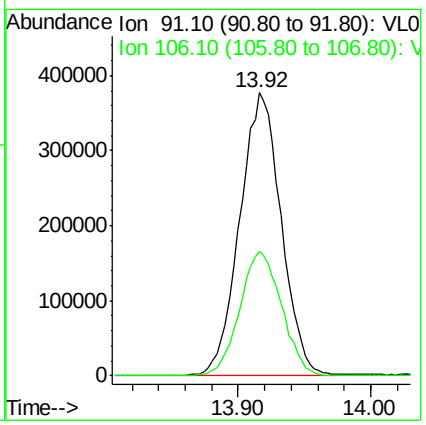


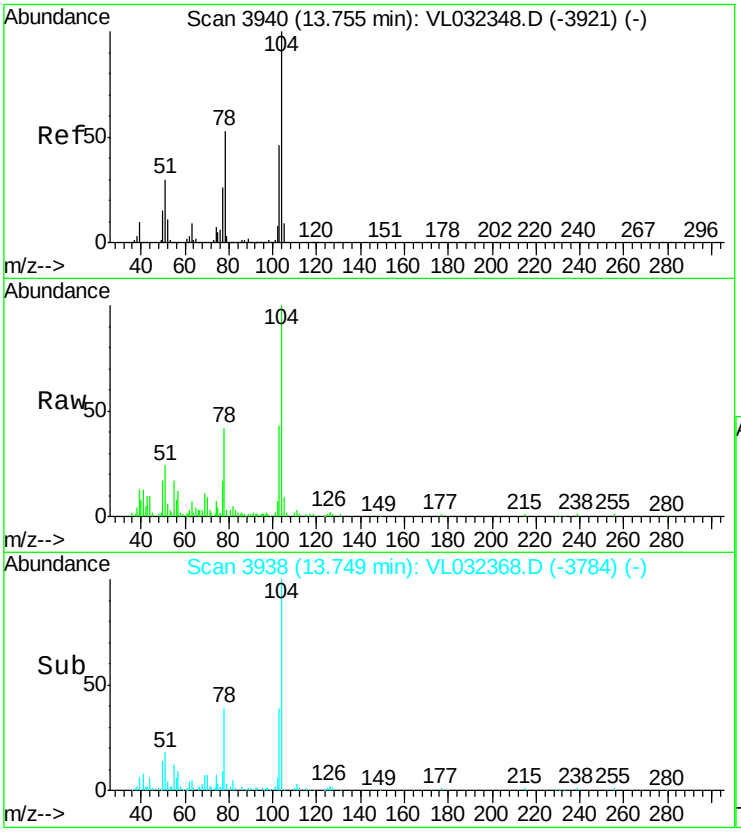


#60
o-Xylene
Concen: 2.43 ppbv
RT: 13.92 min Scan# 3990
Delta R.T. -0.00 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion: 91 Resp: 815359

Ion	Ratio	Lower	Upper
91	100		
106	44.8	22.3	66.8





#61
Stvrene
Concen: 0.38 ppbv m
RT: 13.75 min Scan# 3938
Delta R.T. -0.01 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion:104 Resp: 90109

Ion	Ratio	Lower	Upper
104	100		
78	0.0	42.6	64.0#
103	0.0	38.0	57.0#

Instrument :
MSVOA_L
ClientSampleId :
SS02-MIVI

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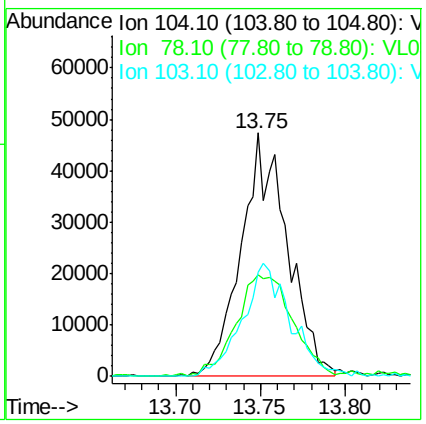
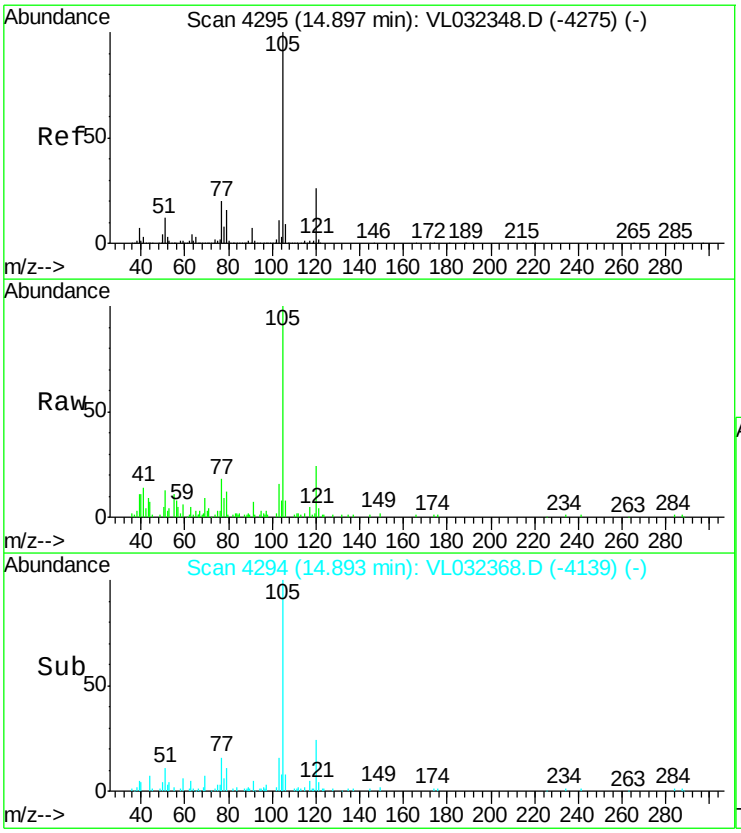
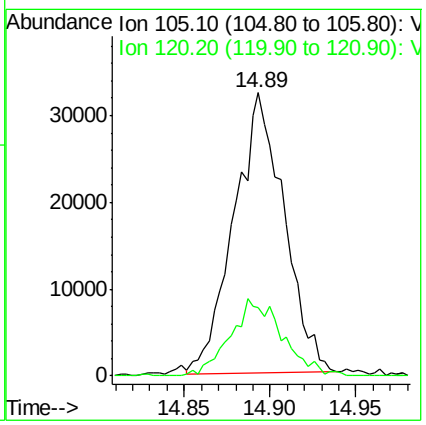


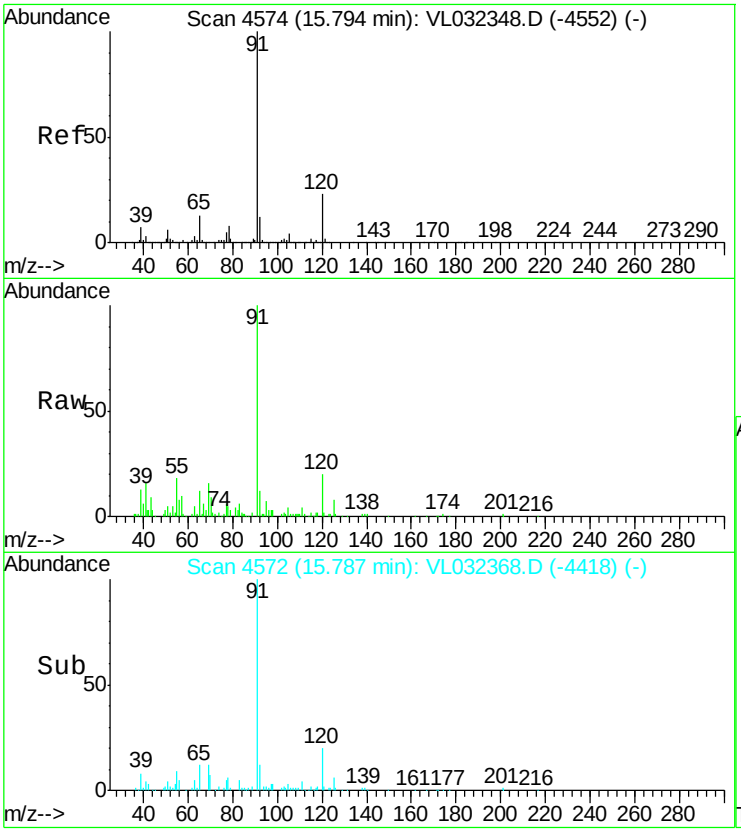


#62
Isopropylbenzene
Concen: 0.14 ppbv
RT: 14.89 min Scan# 4294
Delta R.T. -0.00 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion:105 Resp: 65164

Ion	Ratio	Lower	Upper
105	100		
120	28.6	20.6	30.8





#64
n-propylbenzene
Concen: 0.22 ppbv m
RT: 15.79 min Scan# 4572
Delta R.T. -0.01 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion:120 Resp: 27480

Ion	Ratio	Lower	Upper
120	100		
91	494.5	382.2	573.2

Instrument :
MSVOA_L
ClientSampleId :
SS02-MIVI

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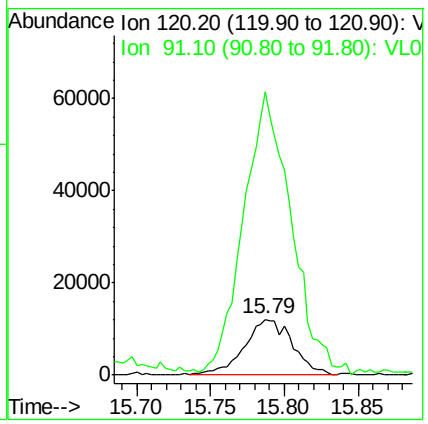
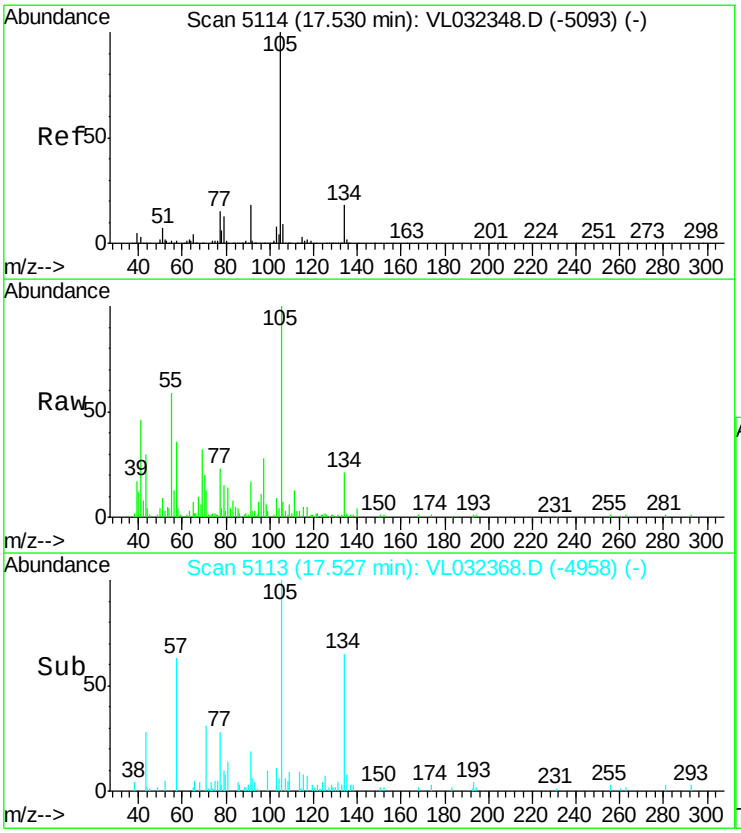
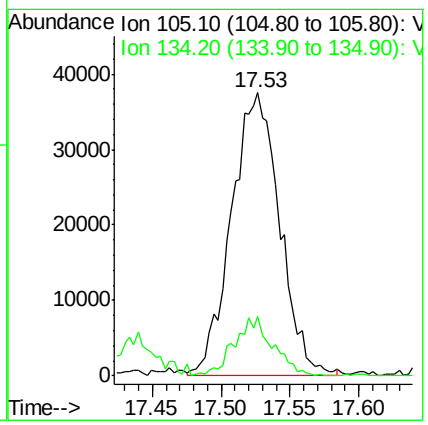


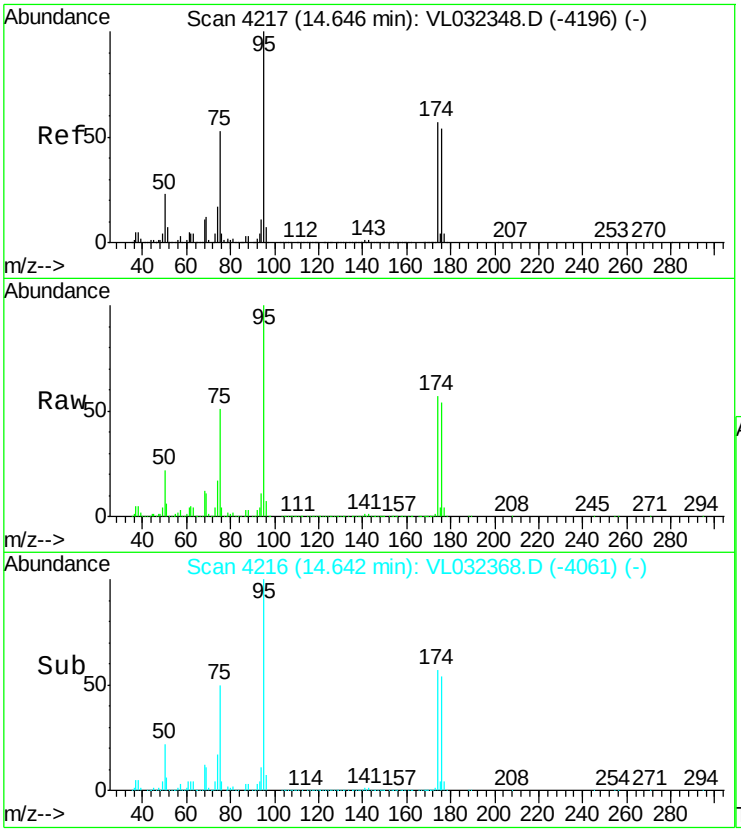


#67
sec-Butylbenzene
Concen: 0.15 ppbv m
RT: 17.53 min Scan# 5113
Delta R.T. -0.00 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion:105 Resp: 91405

Ion	Ratio	Lower	Upper
105	100		
134	16.8	14.4	21.6

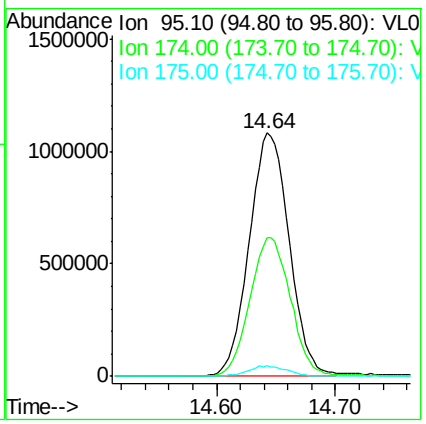




#68
1-Bromo-4-Fluorobenzene
Concen: 9.87 ppbv
RT: 14.64 min Scan# 4216
Delta R.T. -0.00 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion: 95 Resp: 2514634

Ion	Ratio	Lower	Upper
95	100		
174	58.4	46.2	69.4
175	4.3	3.4	5.0



Instrument :
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ClientSampleId :
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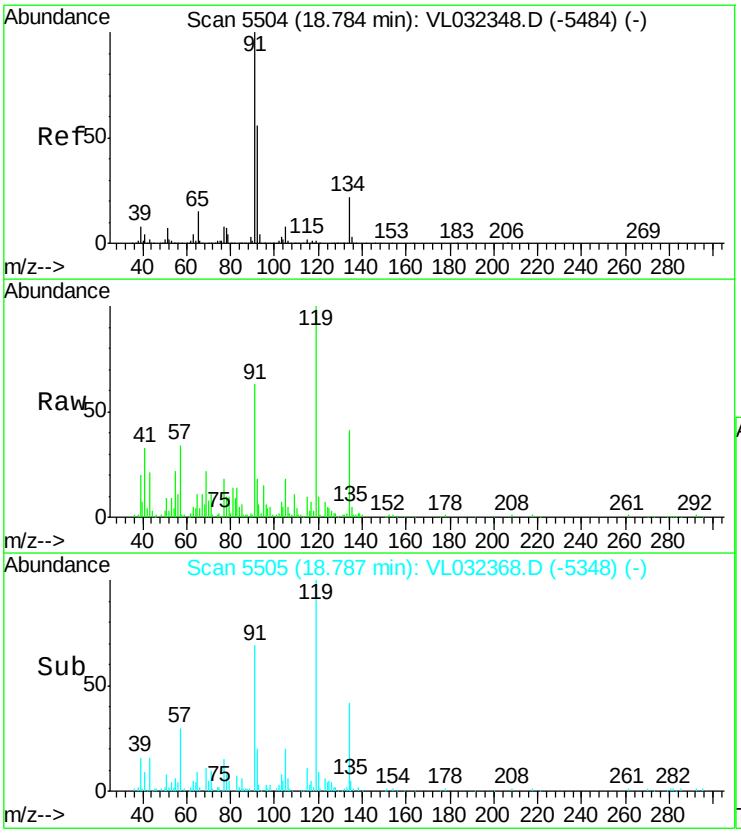
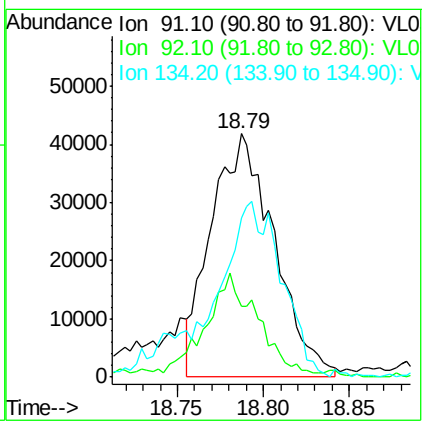
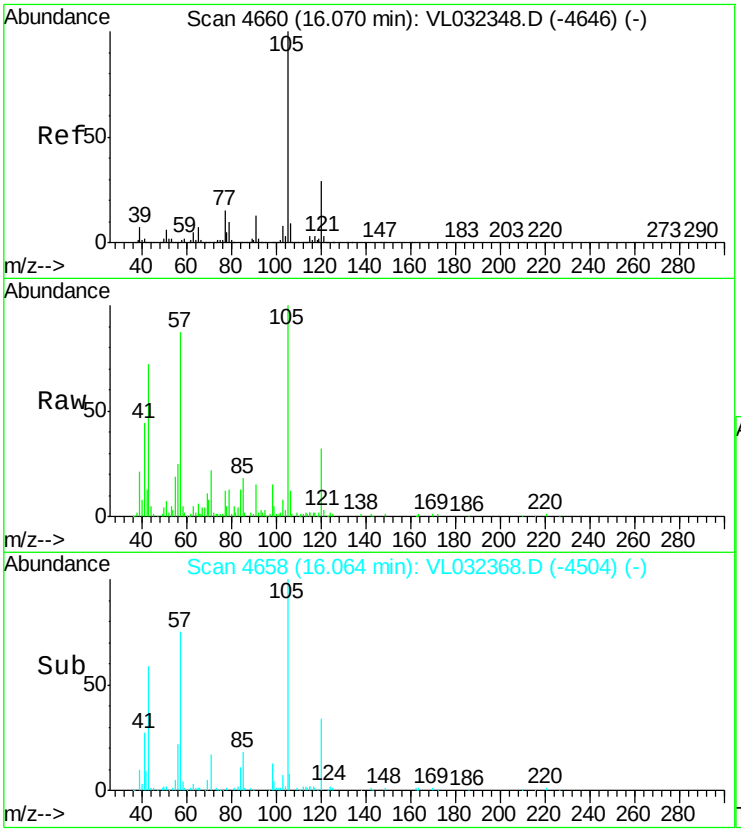


#70
n-Butylbenzene
Concen: 0.21 ppbv m
RT: 18.79 min Scan# 5505
Delta R.T. 0.00 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion: 91 Resp: 106600

Ion	Ratio	Lower	Upper
91	100		
92	39.5	43.9	65.9#
134	0.0	17.3	25.9#

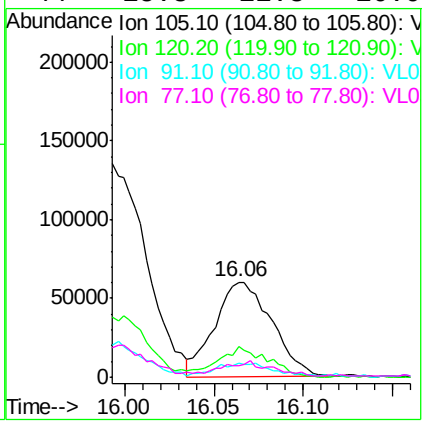




#72
4-Ethyltoluene
Concen: 0.36 ppbv
RT: 16.06 min Scan# 4658
Delta R.T. -0.01 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion:105 Resp: 133324

Ion	Ratio	Lower	Upper
105	100		
120	28.0	23.4	35.0
91	14.9	10.0	15.0
77	15.8	11.3	16.9



Instrument :
MSVOA_L
ClientSampleId :
SS02-MIVI

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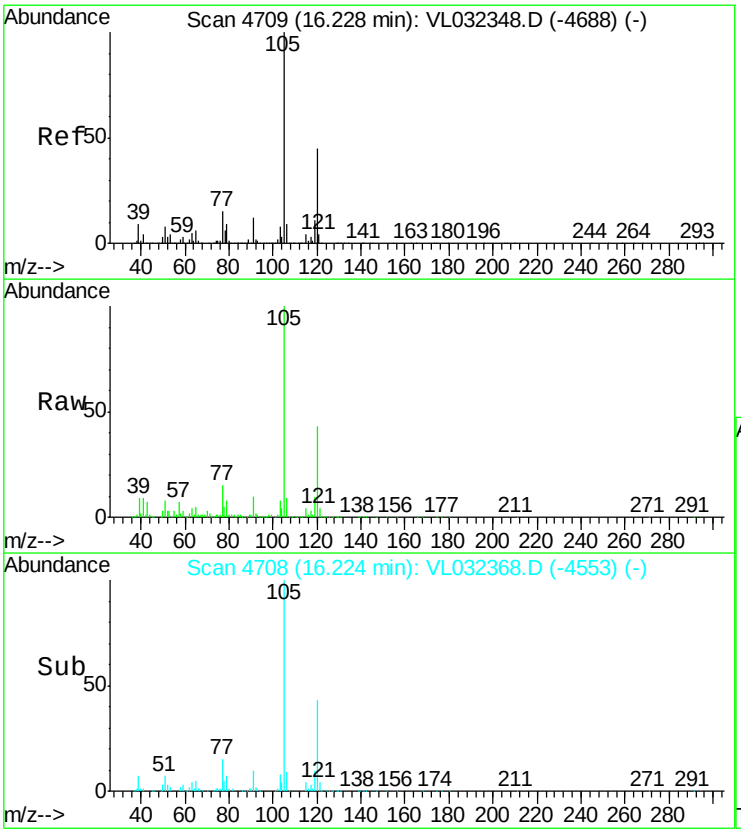
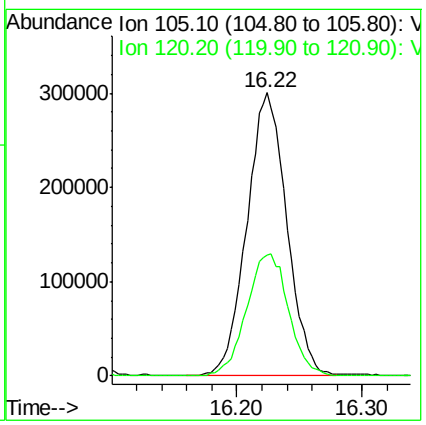
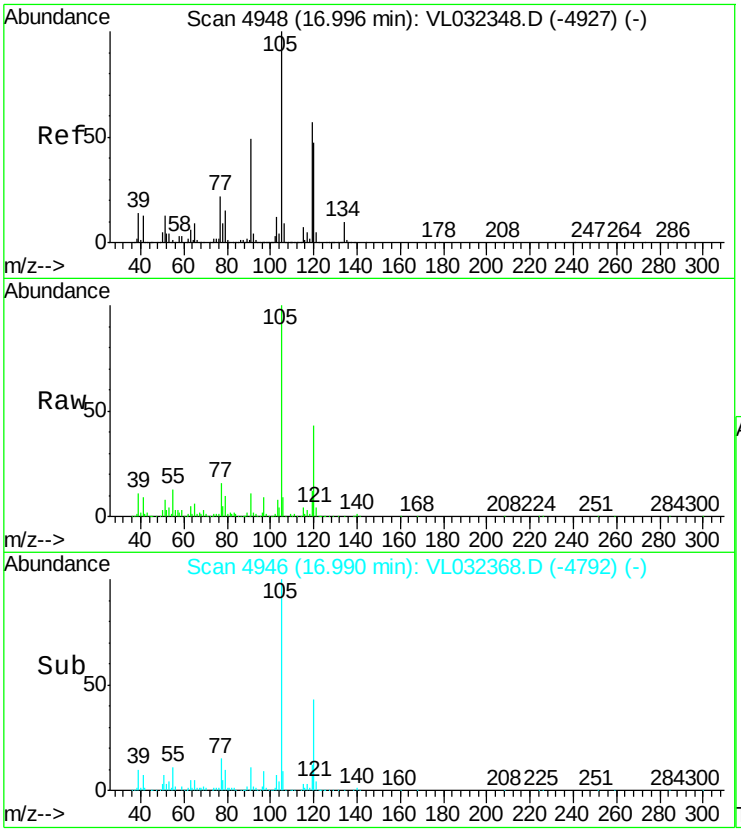


#73
1,3,5-Trimethylbenzene
Concen: 1.84 ppbv
RT: 16.22 min Scan# 4708
Delta R.T. -0.00 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion:105 Resp: 663266

Ion	Ratio	Lower	Upper
105	100		
120	42.5	36.3	54.5

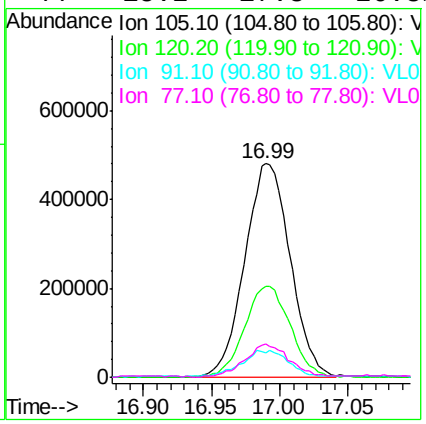




#74
1,2,4-Trimethylbenzene
Concen: 2.90 ppbv
RT: 16.99 min Scan# 4946
Delta R.T. -0.01 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion:105 Resp: 1108333

Ion	Ratio	Lower	Upper
105	100		
120	42.3	37.6	56.4
91	11.0	39.9	59.9#
77	15.2	17.8	26.8#



Instrument :
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ClientSampleId :
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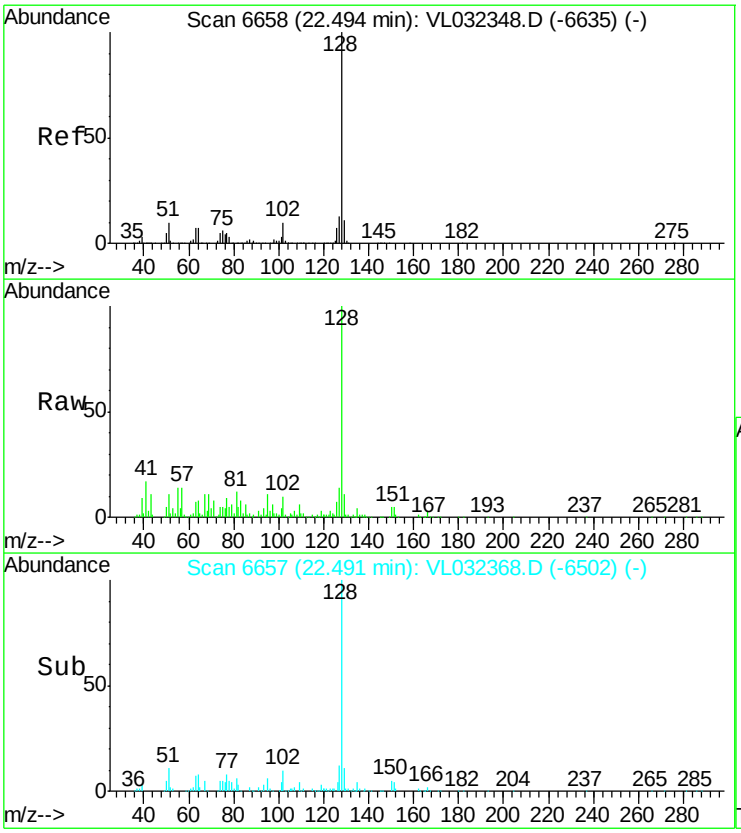
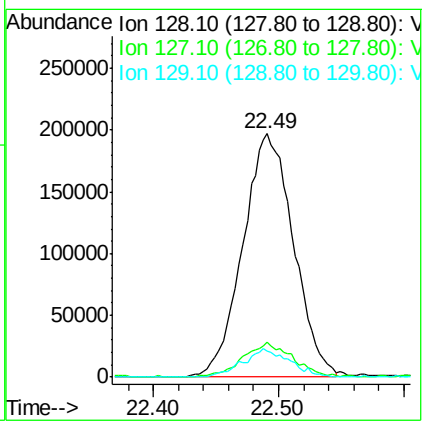
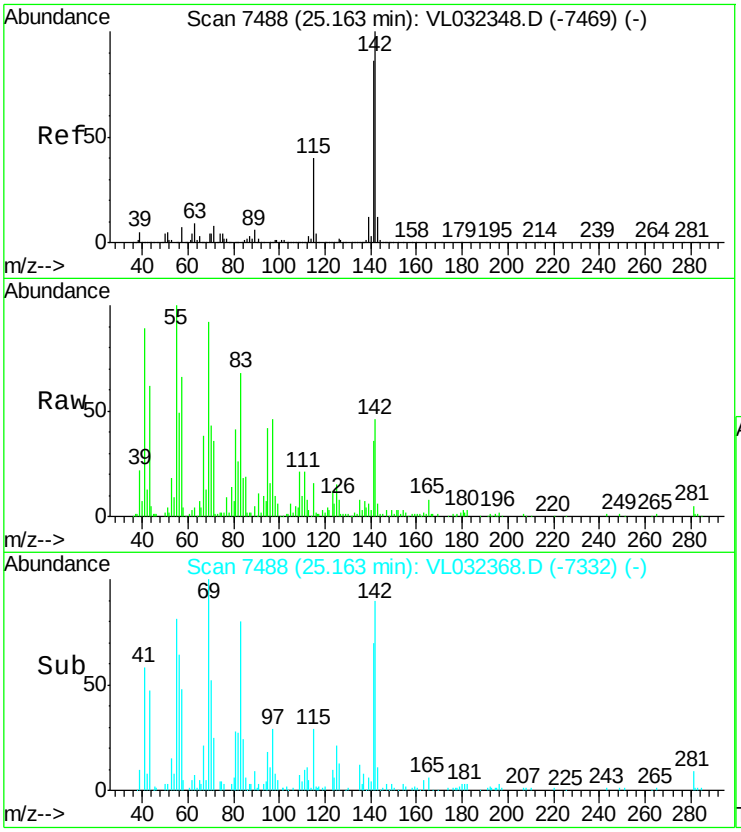


#79
Naphthalene
Concen: 1.82 ppbv
RT: 22.49 min Scan# 6657
Delta R.T. -0.00 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion:128 Resp: 551076

Ion	Ratio	Lower	Upper
128	100		
127	13.9	10.3	15.5
129	10.7	8.6	13.0

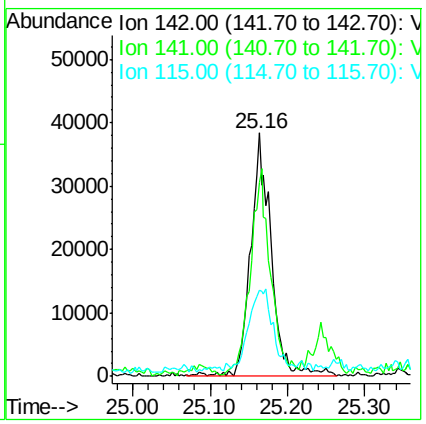




#80
Naphthalene,2-methyl-
Concen: 0.94 ppbv
RT: 25.16 min Scan# 7488
Delta R.T. 0.00 min
Lab File: VL032368.D
Acq: 16 Aug 2018 2:32

Tgt Ion:142 Resp: 71939

Ion	Ratio	Lower	Upper
142	100		
141	82.3	66.7	100.1
115	42.2	31.0	46.6



Instrument :
MSVOA_L
ClientSampleId :
SS02-MIVI

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