

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121718\
 Data File : VL033009.D
 Acq On : 17 Dec 2018 23:49
 Operator : SY/AP
 Sample : J6382-05DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 18 01:17:37 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 07 09:35:17 2018
 QLast Update : Fri Dec 07 09:35:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1217546	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3023470	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3239810	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2411761	10.08	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.80%

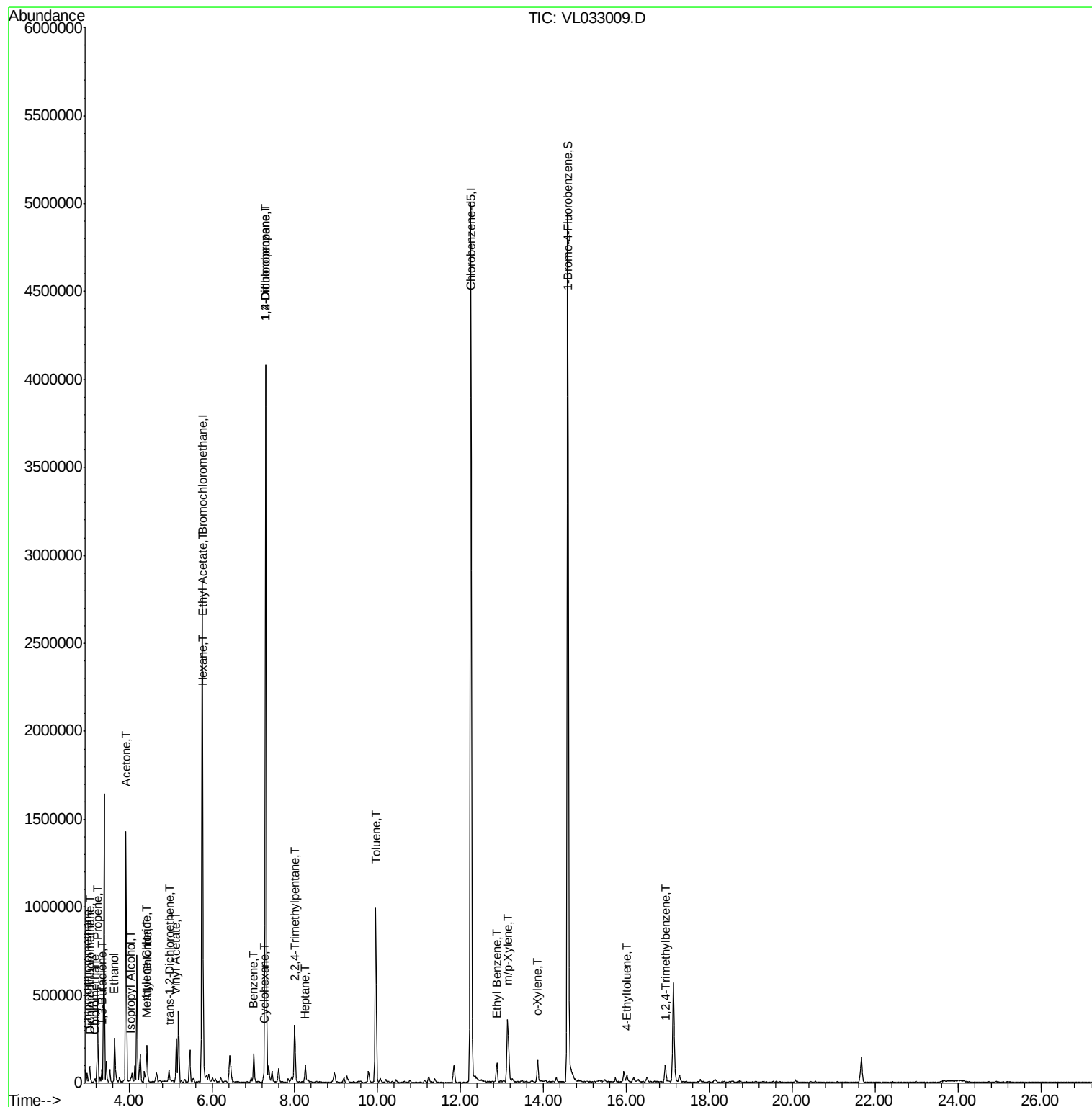
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	9518	0.059	ppbv	98
3) Chlorodifluoromethane	2.99	51	31032	0.337	ppbv #	60
4) Chloromethane	3.17	50	12937	0.241	ppbv	93
9) Propene	3.24	41	151068	4.143	ppbv	94
10) Heptane	8.25	43	32343	0.236	ppbv	88
13) Ethanol	3.65	45	266643	21.240	ppbv	95
15) Acetone	3.93	43	597461	5.717	ppbv #	68
16) 1,3-Butadiene	3.35	39	20997	0.506	ppbv #	4
19) Isopropyl Alcohol	4.04	45	10770	0.164	ppbv #	95
20) Methylene Chloride	4.41	84	21942	0.430	ppbv #	90
21) Allyl Chloride	4.44	41	29276	0.344	ppbv #	60
22) trans-1,2-Dichloroethene	4.97	96	14023	0.221	ppbv #	89
23) Vinyl Acetate	5.14	43	94868	0.536	ppbv #	1
25) Ethyl Acetate	5.78	43	84665	0.343	ppbv #	79
26) Hexane	5.79	57	119957	1.052	ppbv #	44
30) Cyclohexane	7.25	84	7658	0.081	ppbv #	1
36) Benzene	7.01	78	125204	0.563	ppbv	98
39) 1,2-Dichloropropane	7.30	63	714898	8.477	ppbv #	22
44) 2,2,4-Trimethylpentane	7.99	57	268862	0.712	ppbv	94
53) Toluene	9.95	91	710632	3.013	ppbv	99
58) Ethyl Benzene	12.88	91	43597	0.126	ppbv	94
59) m/p-Xylene	13.15	91	32279	0.103	ppbv #	100
60) o-Xylene	13.86	91	89535	0.283	ppbv	99
72) 4-Ethyltoluene	16.00	105	12184	0.034	ppbv #	57
74) 1,2,4-Trimethylbenzene	16.94	105	69401	0.178	ppbv #	73

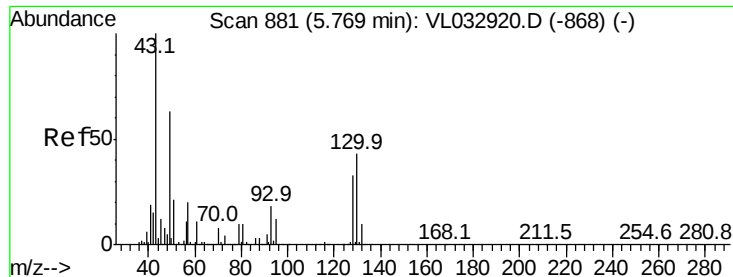
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Dec 07 09:35:17 2018
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.00 min

Lab File: VL033009.D

Acq: 17 Dec 2018 23:49

Instrument :

MSVOA_L

ClientSampleId :

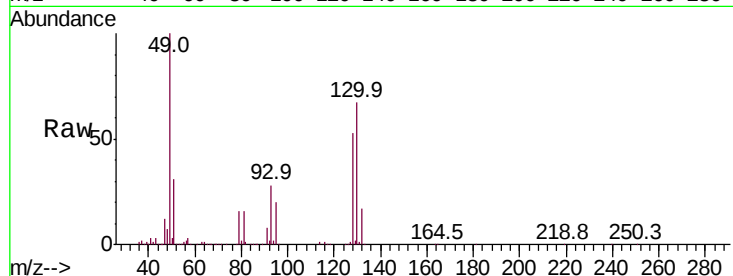
Tot Ion: 49 Resp: 1217546

Ion Ratio Lower Upper

49 100

128 53.0 26.3 78.8

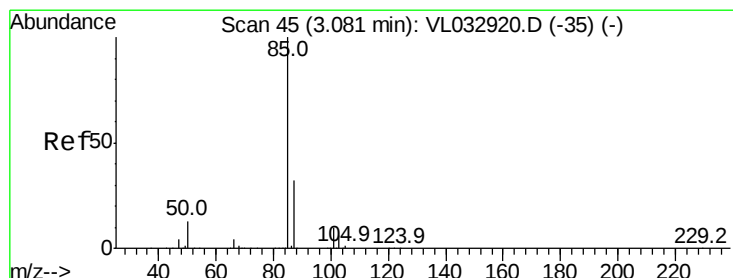
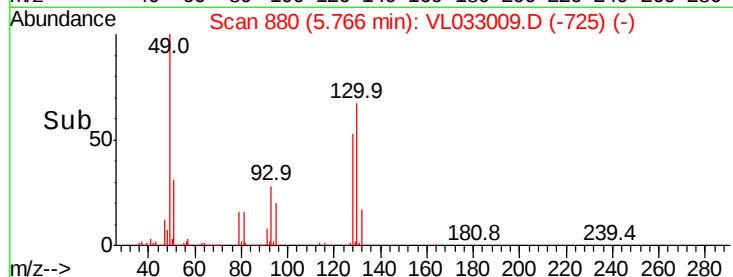
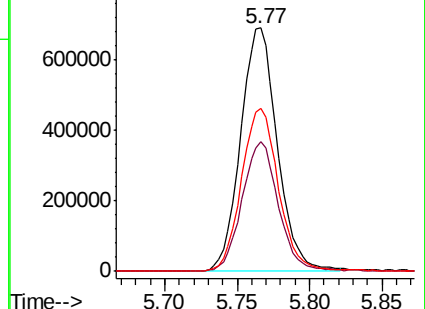
130 68.1 33.9 101.7



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.059 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.00 min

Lab File: VL033009.D

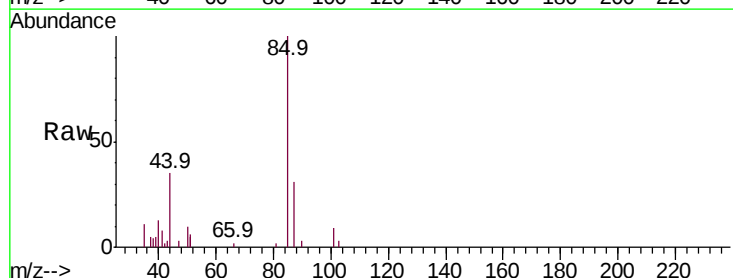
Acq: 17 Dec 2018 23:49

Tgt Ion: 85 Resp: 9518

Ion Ratio Lower Upper

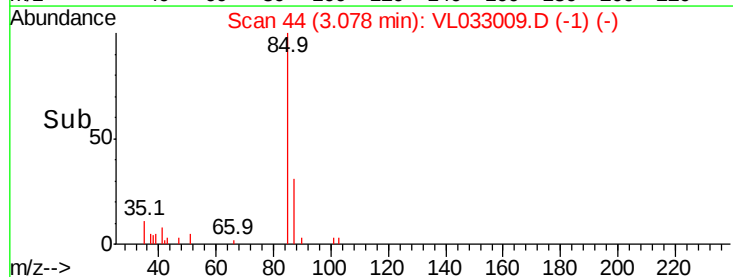
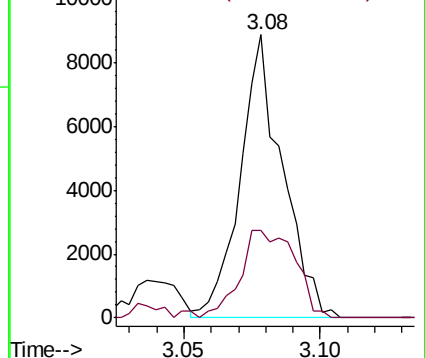
85 100

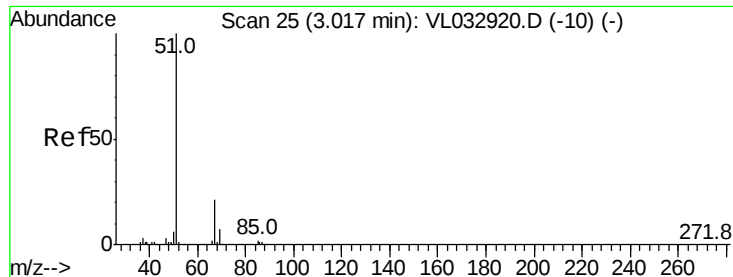
87 31.0 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.337 ppbv

RT: 2.99 min Scan# 16

Delta R.T. -0.03 min

Lab File: VL033009.D

Acq: 17 Dec 2018 23:49

Instrument :

MSVOA_L

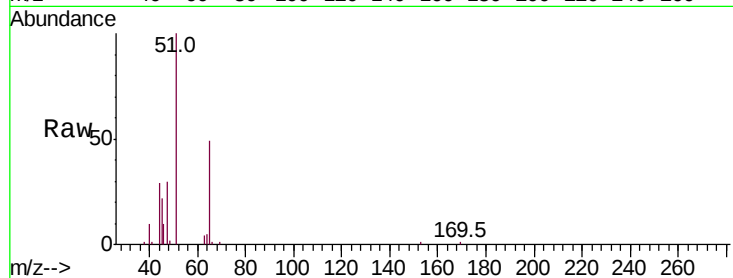
ClientSampleId :

Tot Ion: 51 Resp: 31032

Ion Ratio Lower Upper

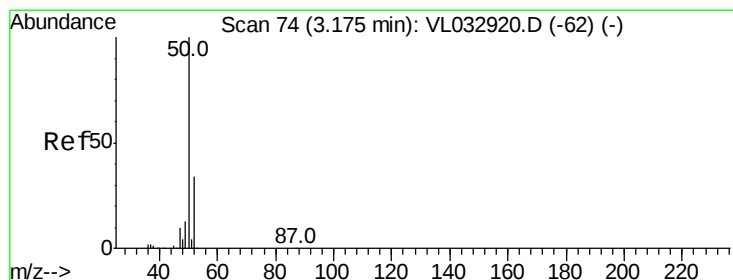
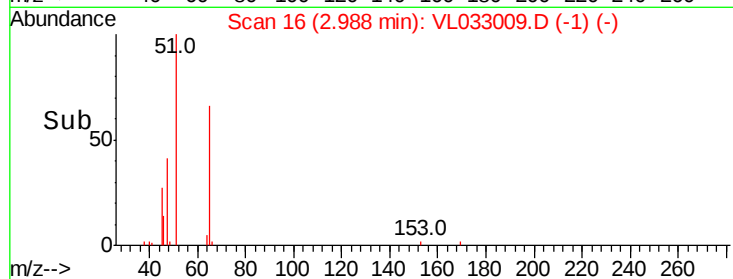
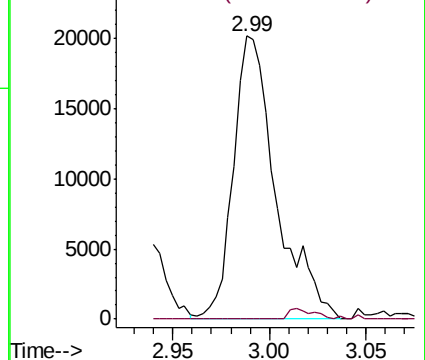
51 100

67 2.5 16.8 25.2#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.241 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL033009.D

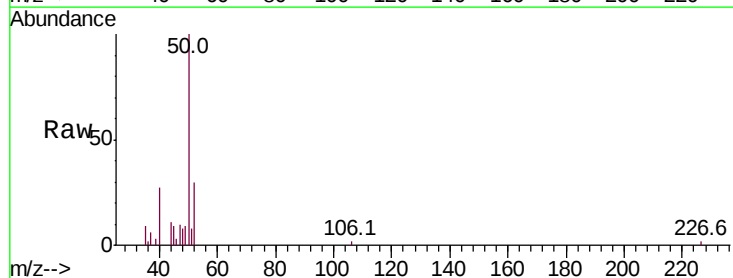
Acq: 17 Dec 2018 23:49

Tgt Ion: 50 Resp: 12937

Ion Ratio Lower Upper

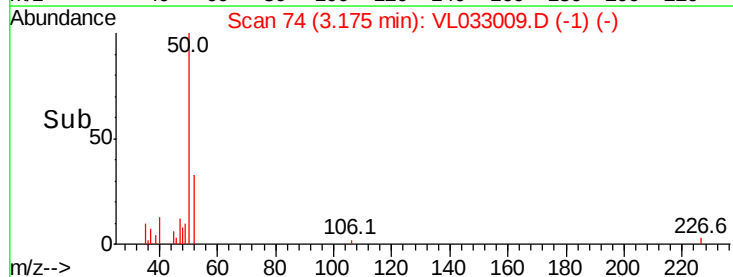
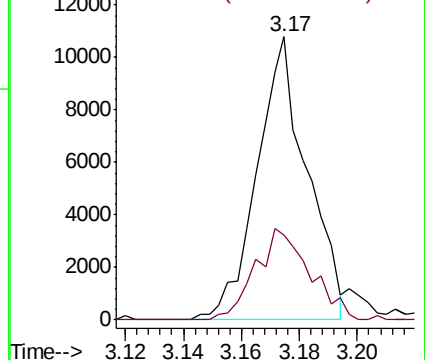
50 100

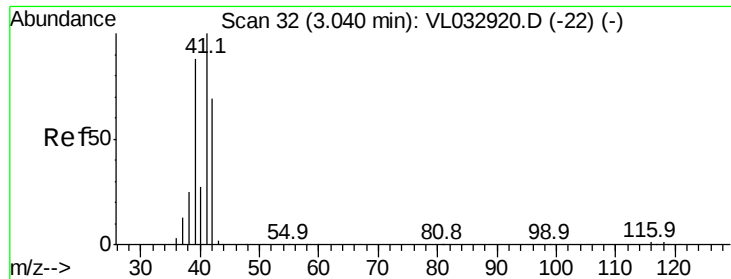
52 30.0 27.3 40.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 4.143 ppbv

RT: 3.24 min Scan# 94

Delta R.T. 0.20 min

Lab File: VL033009.D

Acq: 17 Dec 2018 23:49

Instrument :

MSVOA_L

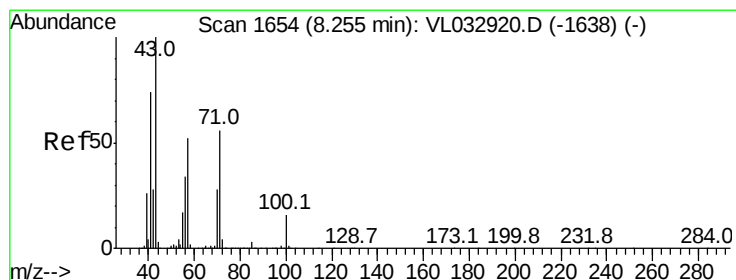
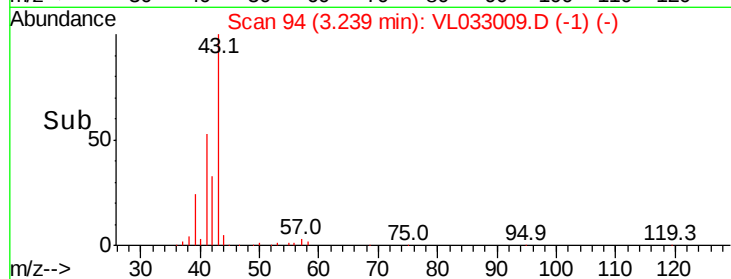
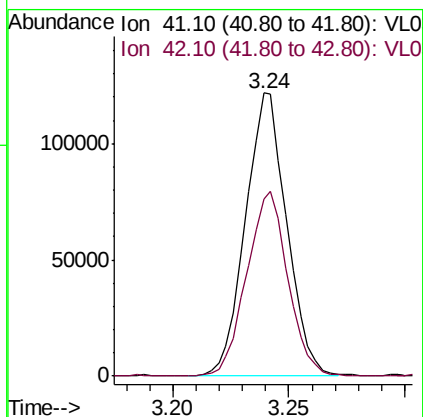
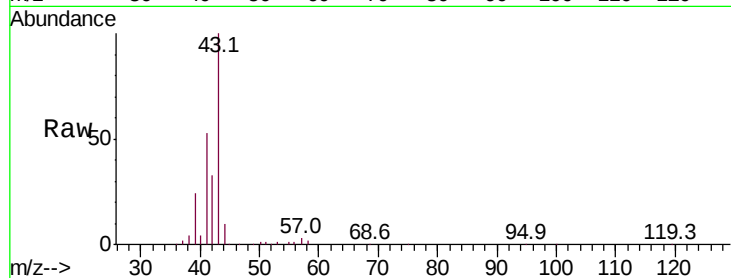
ClientSampleId :

Tot Ion: 41 Resp: 151068

Ion Ratio Lower Upper

41 100

42 65.3 56.2 84.2



#10

Heptane

Concen: 0.236 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. -0.01 min

Lab File: VL033009.D

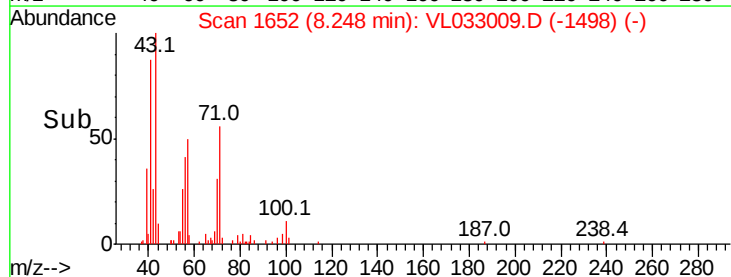
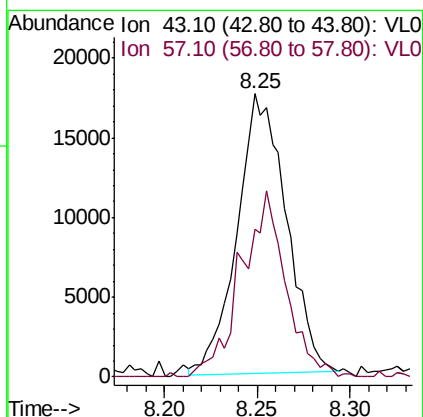
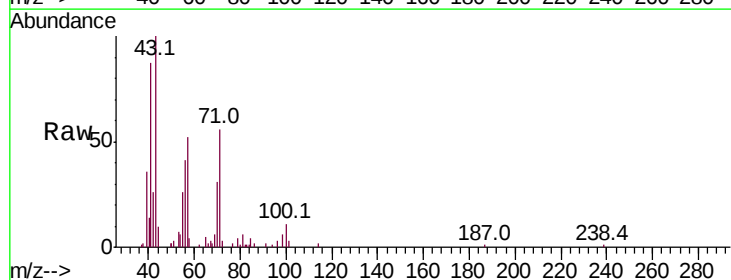
Acq: 17 Dec 2018 23:49

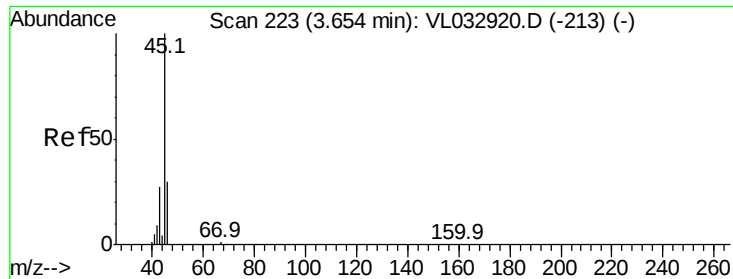
Tgt Ion: 43 Resp: 32343

Ion Ratio Lower Upper

43 100

57 60.8 41.8 62.6





#13

Ethanol

Concen: 21.240 ppbv

RT: 3.65 min Scan# 222

Delta R.T. -0.00 min

Lab File: VL033009.D

Acq: 17 Dec 2018 23:49

Instrument :

MSVOA_L

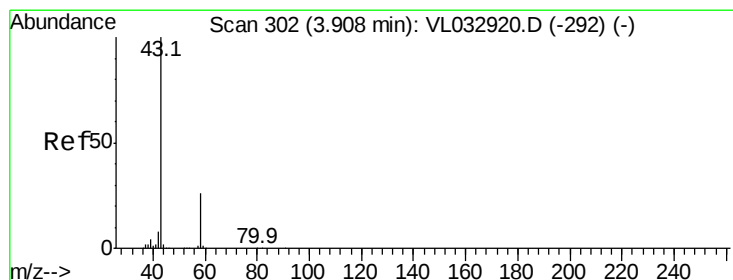
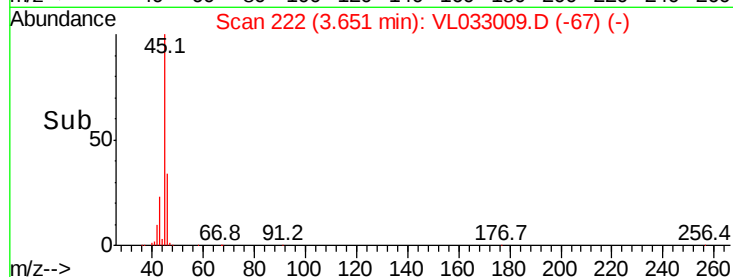
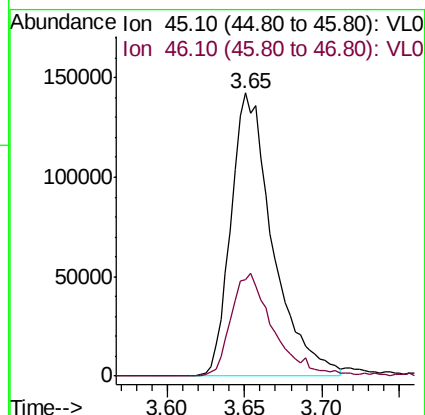
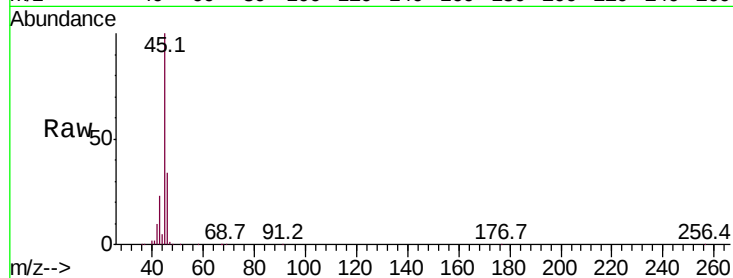
ClientSampleId :

Tot Ion: 45 Resp: 266643

Ion Ratio Lower Upper

45 100

46 37.5 13.8 55.4



#15

Acetone

Concen: 5.717 ppbv

RT: 3.93 min Scan# 308

Delta R.T. 0.02 min

Lab File: VL033009.D

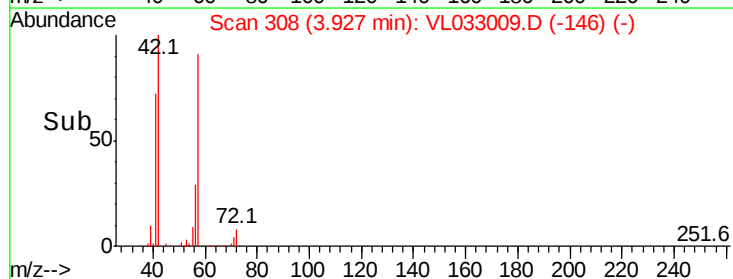
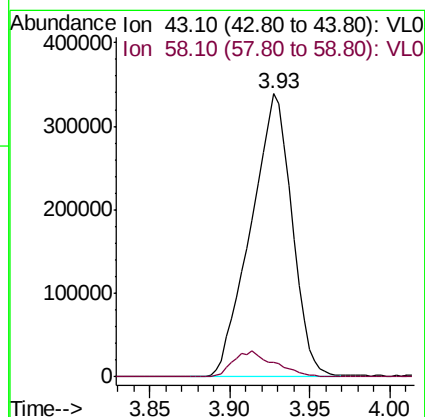
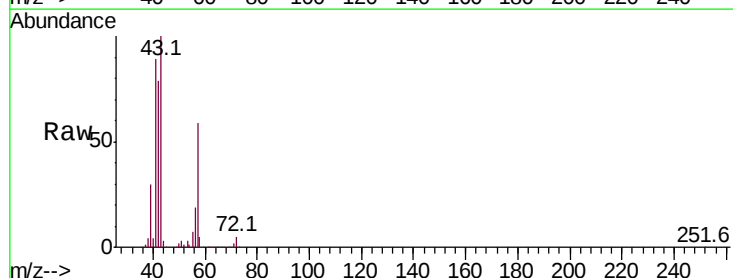
Acq: 17 Dec 2018 23:49

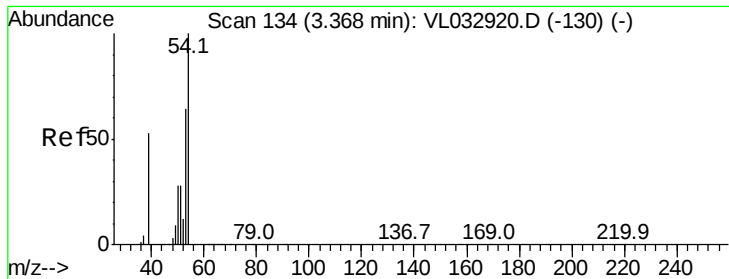
Tgt Ion: 43 Resp: 597461

Ion Ratio Lower Upper

43 100

58 9.2 20.6 30.8#

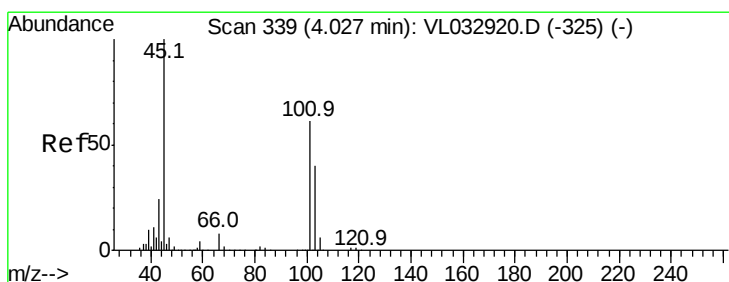
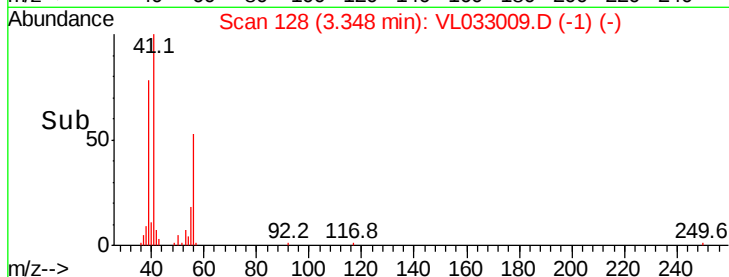
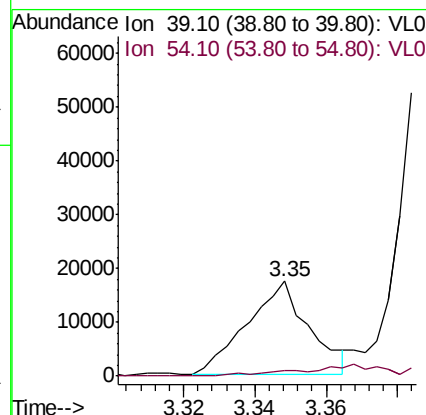
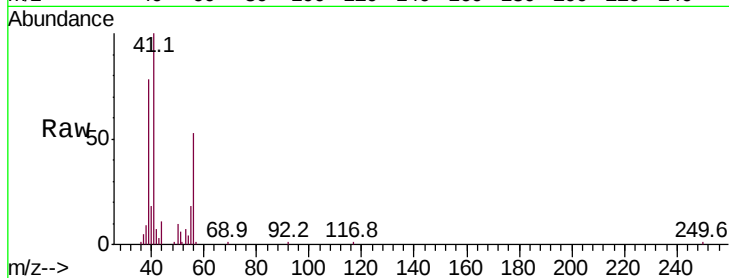




#16
 1,3-Butadiene
 Concen: 0.506 ppbv
 RT: 3.35 min Scan# 128
 Delta R.T. -0.02 min
 Lab File: VL033009.D
 Acq: 17 Dec 2018 23:49

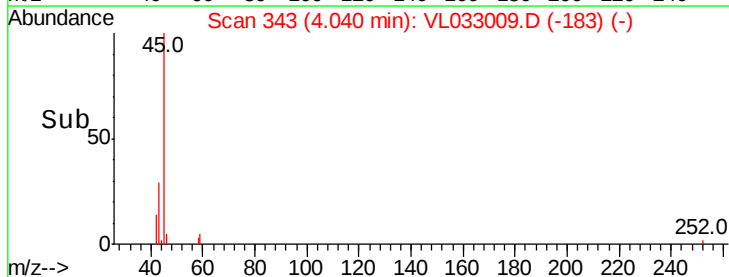
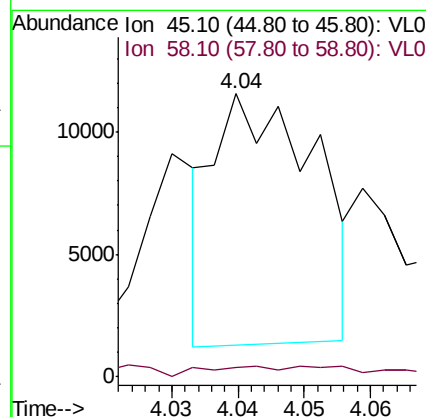
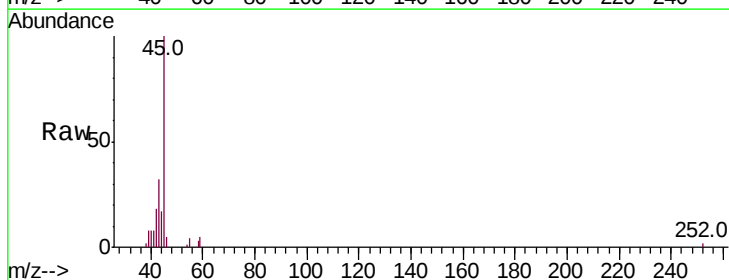
Instrument :
 MSVOA_L
 ClientSampleId :

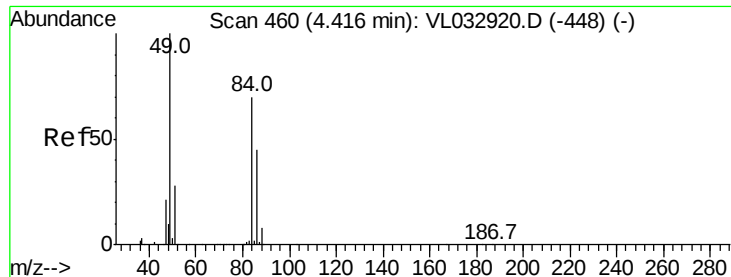
Tot Ion: 39 Resp: 20997
 Ion Ratio Lower Upper
 39 100
 54 0.0 72.7 109.1#



#19
 Isopropyl Alcohol
 Concen: 0.164 ppbv
 RT: 4.04 min Scan# 343
 Delta R.T. 0.01 min
 Lab File: VL033009.D
 Acq: 17 Dec 2018 23:49

Tgt Ion: 45 Resp: 10770
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.4 2.2#

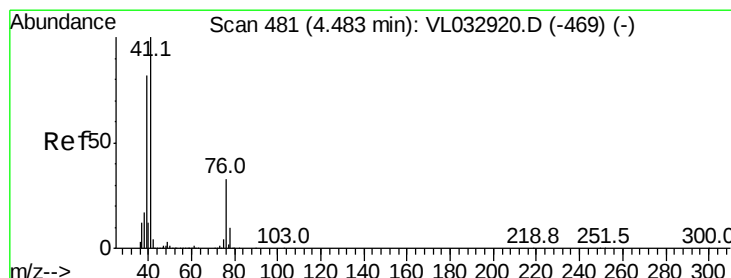
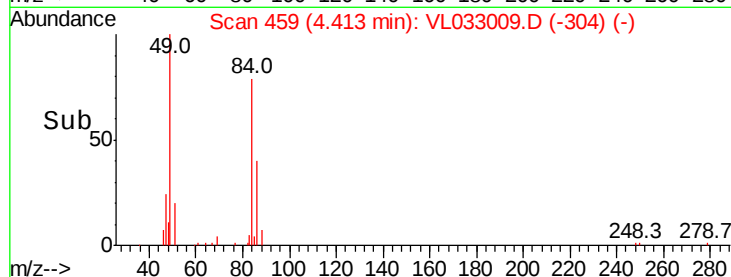
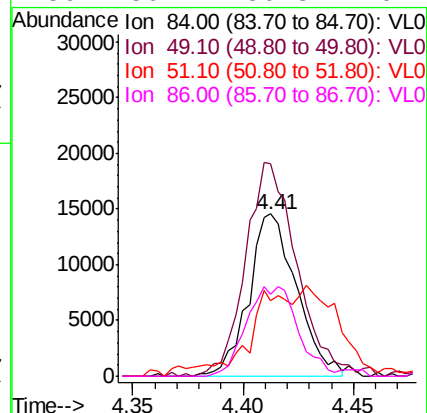
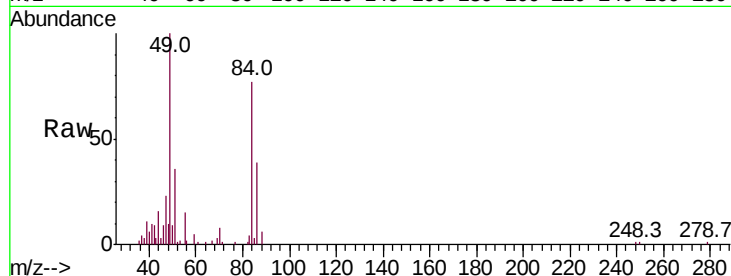




#20
Methylene Chloride
Concen: 0.430 ppbv
RT: 4.41 min Scan# 459
Delta R.T. -0.00 min
Lab File: VL033009.D
Acq: 17 Dec 2018 23:49

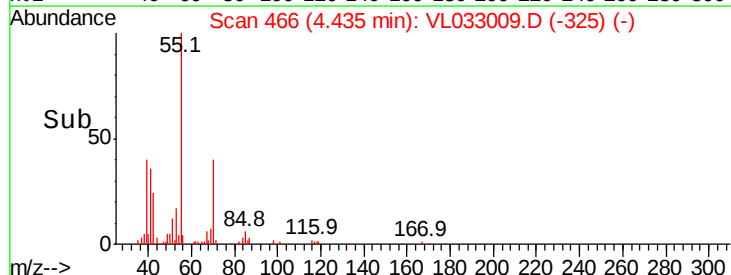
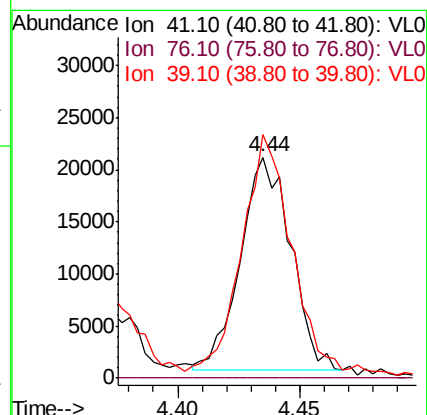
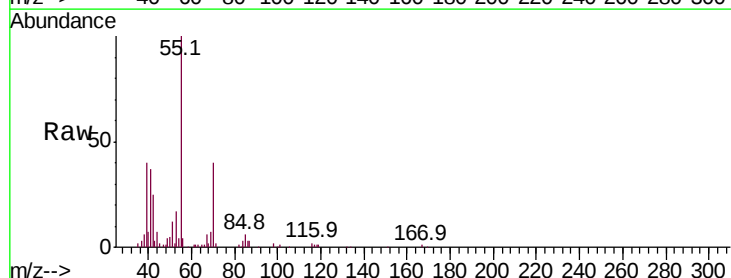
Instrument :
MSVOA_L
ClientSampled :

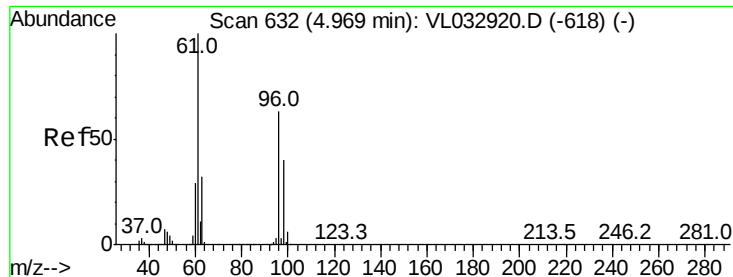
Tot Ion: 84 Resp: 21942
Ion Ratio Lower Upper
84 100
49 130.7 113.8 170.8
51 41.4 31.8 47.8
86 50.7 50.8 76.2#



#21
Allyl Chloride
Concen: 0.344 ppbv
RT: 4.44 min Scan# 466
Delta R.T. -0.05 min
Lab File: VL033009.D
Acq: 17 Dec 2018 23:49

Tgt Ion: 41 Resp: 29276
Ion Ratio Lower Upper
41 100
76 0.1 25.2 37.8#
39 111.2 65.2 97.8#





#22

trans-1,2-Dichloroethene

Concen: 0.221 ppbv

RT: 4.97 min Scan# 631

Delta R.T. -0.00 min

Lab File: VL033009.D

Acq: 17 Dec 2018 23:49

Instrument :

MSVOA_L

ClientSampleId :

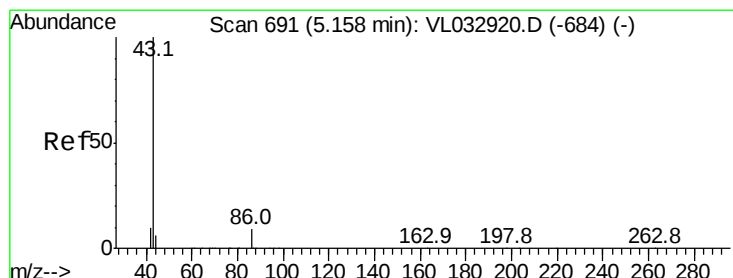
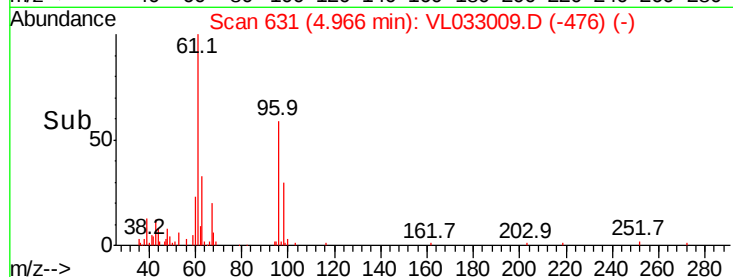
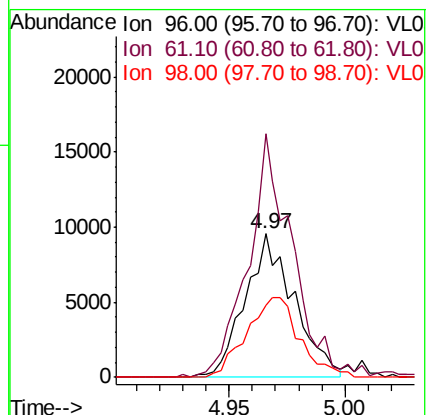
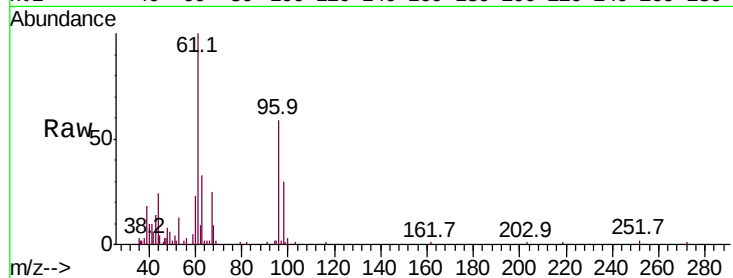
Tot Ion: 96 Resp: 14023

Ion Ratio Lower Upper

96 100

61 169.7 127.1 190.7

98 50.5 51.3 76.9#



#23

Vinyl Acetate

Concen: 0.536 ppbv

RT: 5.14 min Scan# 686

Delta R.T. -0.02 min

Lab File: VL033009.D

Acq: 17 Dec 2018 23:49

Tgt Ion: 43 Resp: 94868

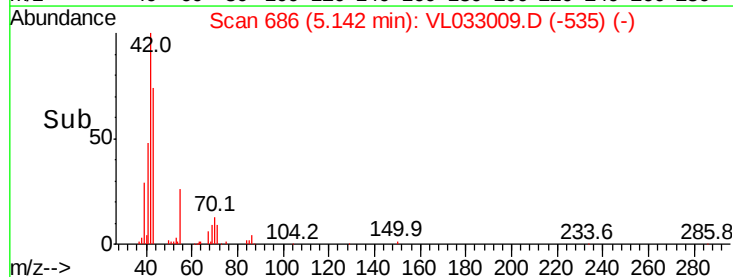
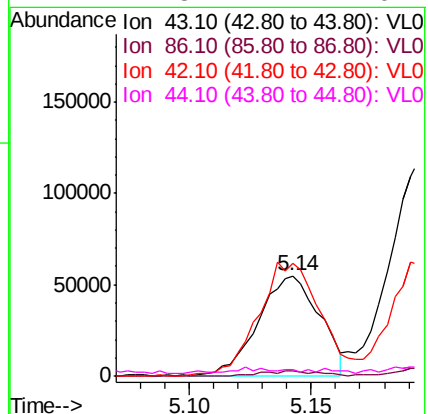
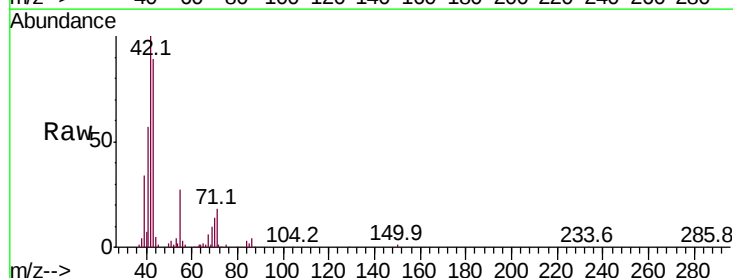
Ion Ratio Lower Upper

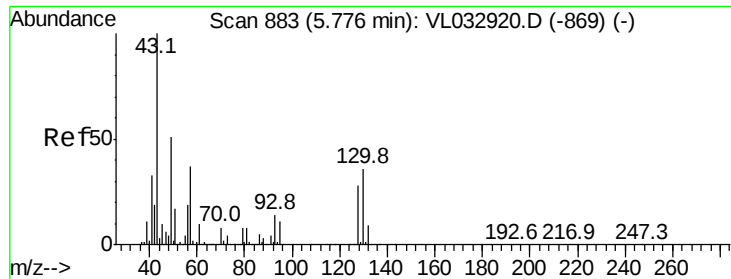
43 100

86 4.7 6.6 9.8#

42 111.5 8.3 12.5#

44 1.8 4.2 6.4#

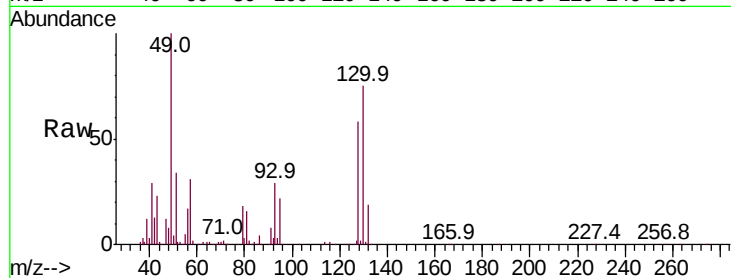




#25
Ethyl Acetate
Concen: 0.343 ppbv
RT: 5.78 min Scan# 885
Delta R.T. 0.01 min
Lab File: VL033009.D
Acq: 17 Dec 2018 23:49

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	43	Resp:	84665
Ion	Ratio	Lower	Upper
43	100		
45	1.2	7.8	11.6#
61	0.5	7.4	11.2#
70	2.1	5.7	8.5#



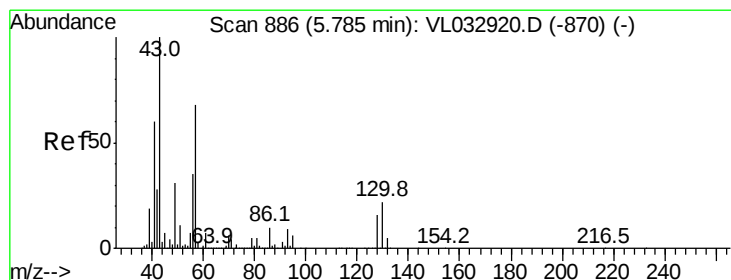
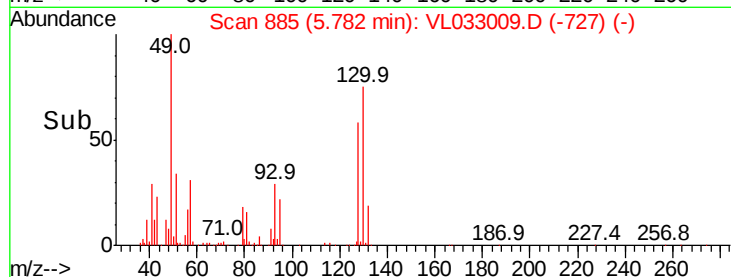
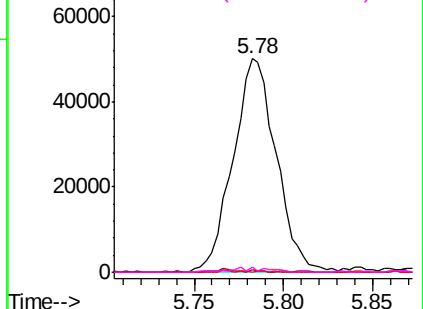
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

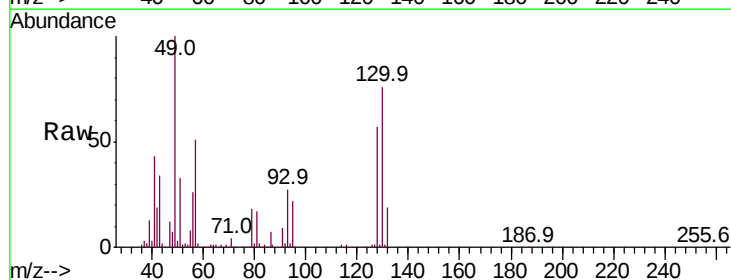
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 1.052 ppbv
RT: 5.79 min Scan# 886
Delta R.T. 0.00 min
Lab File: VL033009.D
Acq: 17 Dec 2018 23:49

Tgt Ion:	57	Resp:	119957
Ion	Ratio	Lower	Upper
57	100		
41	95.7	72.2	108.2
43	71.9	171.9	257.9#
56	55.8	42.2	63.2



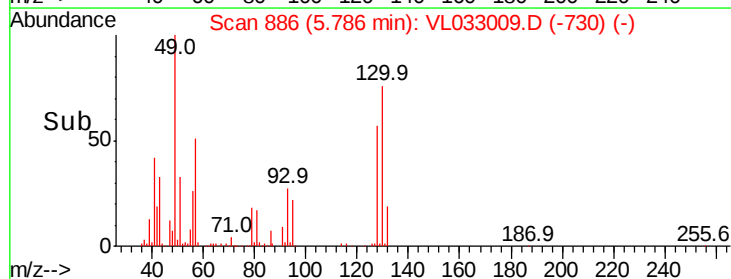
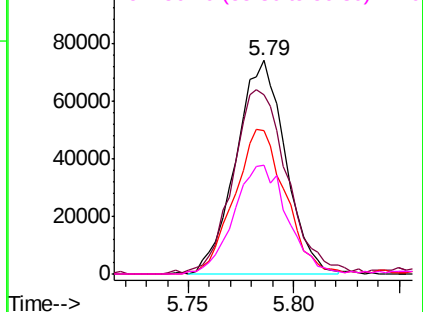
Abundance

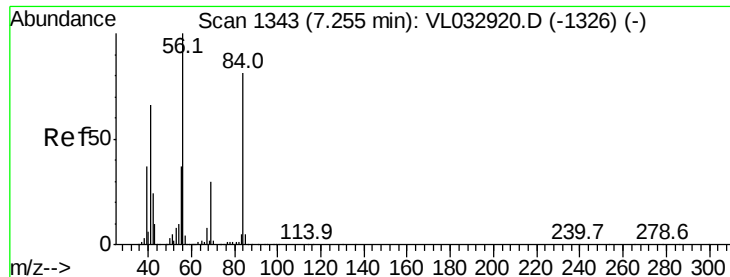
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

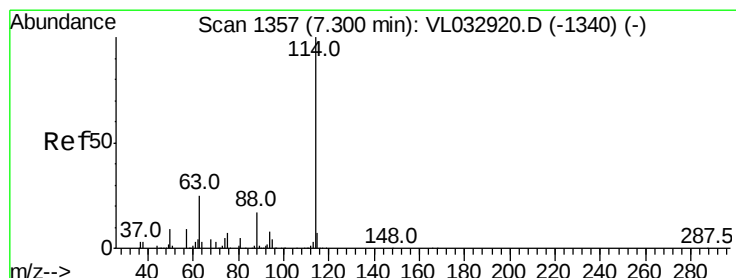
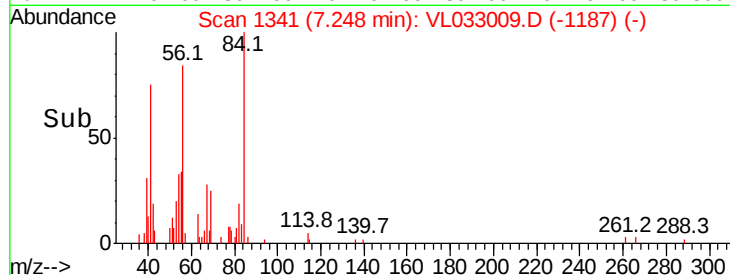
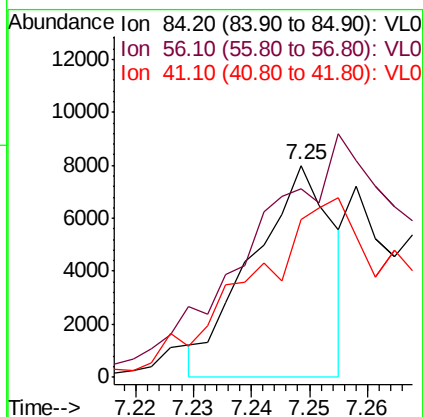
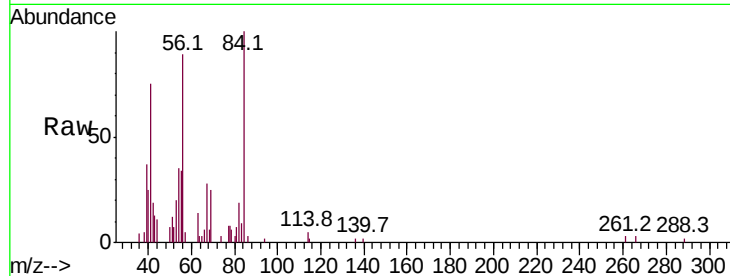




#30
Cvclohexane
Concen: 0.081 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. -0.01 min
Lab File: VL033009.D
Acq: 17 Dec 2018 23:49

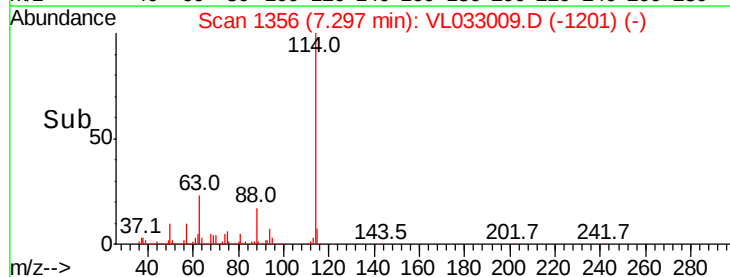
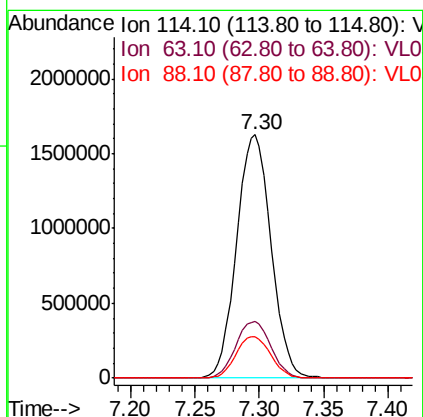
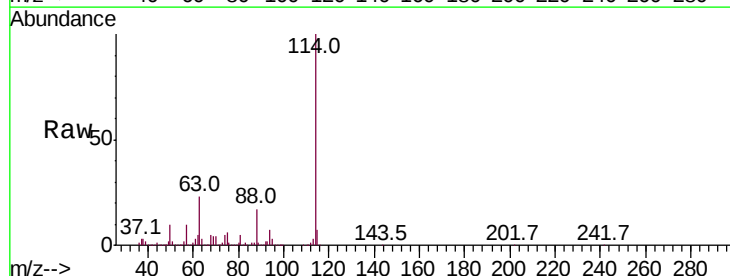
Instrument :
MSVOA_L
ClientSampleId :

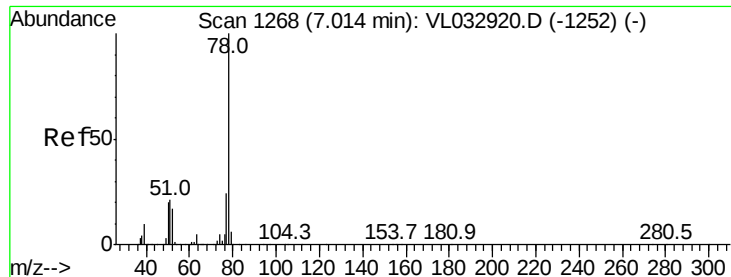
Tot Ion: 84 Resp: 7658
Ion Ratio Lower Upper
84 100
56 0.0 102.5 153.7#
41 0.0 64.1 96.1#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1356
Delta R.T. -0.00 min
Lab File: VL033009.D
Acq: 17 Dec 2018 23:49

Tgt Ion: 114 Resp: 3023470
Ion Ratio Lower Upper
114 100
63 23.9 20.1 30.1
88 17.4 14.2 21.4





#36

Benzene

Concen: 0.563 ppbv

RT: 7.01 min Scan# 1266

Delta R.T. -0.01 min

Lab File: VL033009.D

Acq: 17 Dec 2018 23:49

Instrument :

MSVOA_L

ClientSampleId :

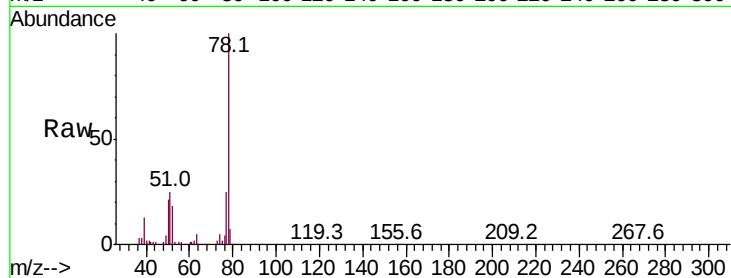
Tot Ion: 78 Resp: 125204

Ion Ratio Lower Upper

78 100

77 25.3 18.9 28.3

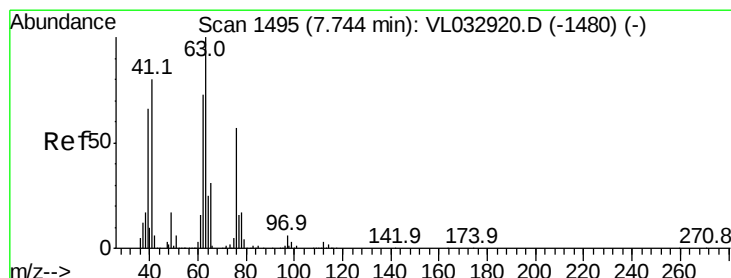
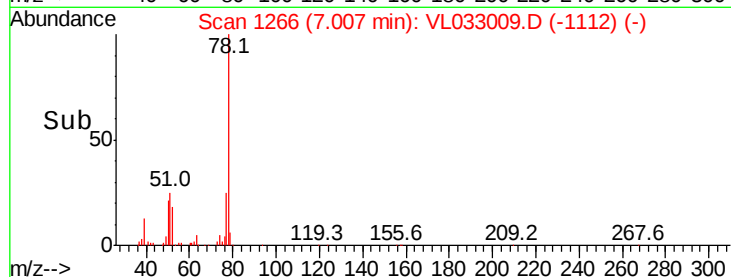
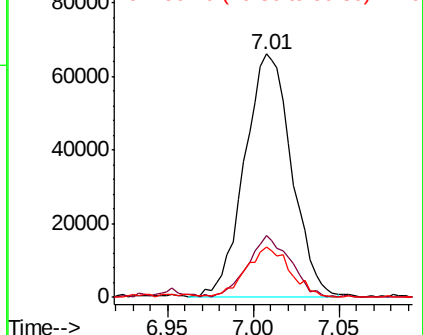
50 20.5 16.1 24.1



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#39

1,2-Dichloropropane

Concen: 8.477 ppbv

RT: 7.30 min Scan# 1356

Delta R.T. -0.45 min

Lab File: VL033009.D

Acq: 17 Dec 2018 23:49

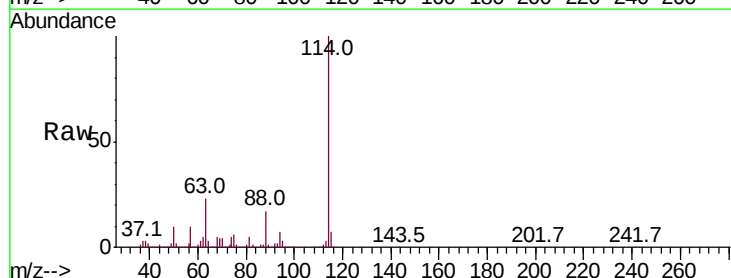
Tgt Ion: 63 Resp: 714898

Ion Ratio Lower Upper

63 100

41 0.0 63.9 95.9#

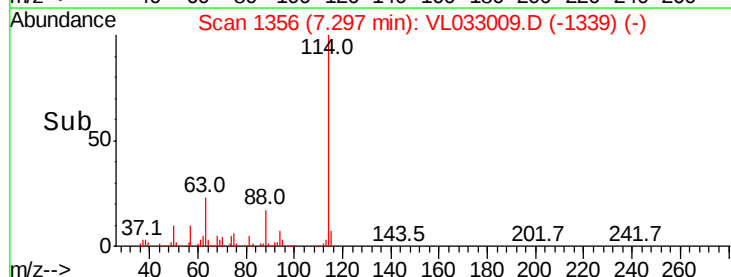
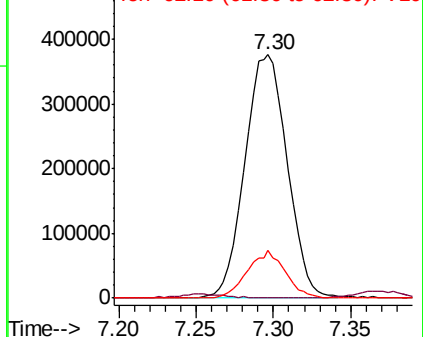
62 19.6 58.8 88.2#

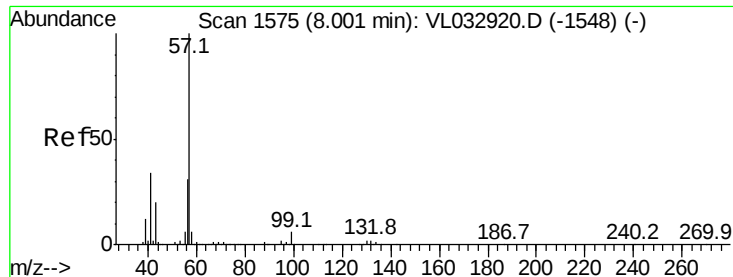


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#44

2,2,4-Trimethylpentane

Concen: 0.712 ppbv

RT: 7.99 min Scan# 1573

Delta R.T. -0.01 min

Lab File: VL033009.D

Acq: 17 Dec 2018 23:49

Instrument :

MSVOA_L

ClientSampleId :

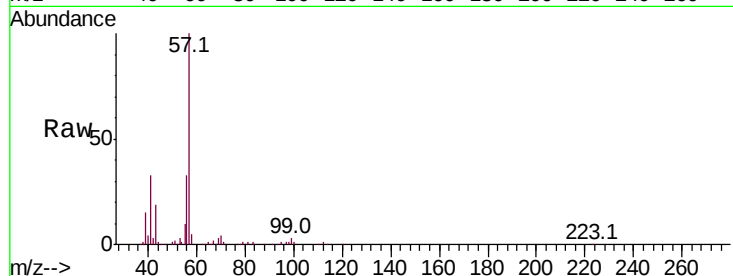
Tot Ion: 57 Resp: 268862

Ion Ratio Lower Upper

57 100

41 37.2 27.0 40.4

56 34.6 24.6 37.0



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

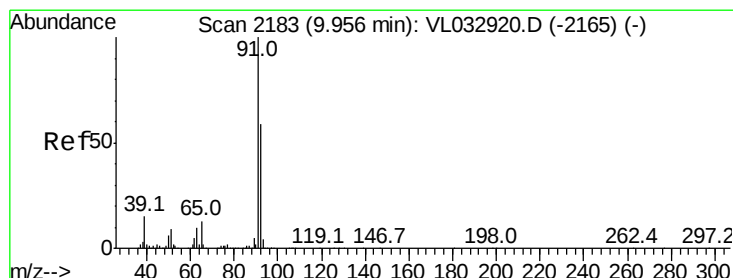
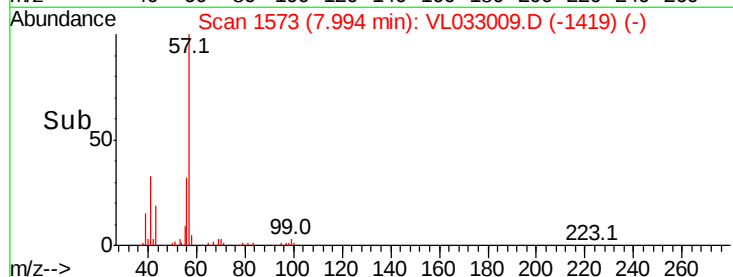
7.99

100000

50000

0

Time--> 7.90 7.95 8.00 8.05



#53

Toluene

Concen: 3.013 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. -0.01 min

Lab File: VL033009.D

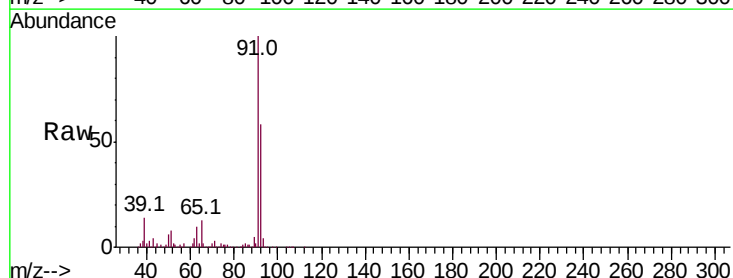
Acq: 17 Dec 2018 23:49

Tgt Ion: 91 Resp: 710632

Ion Ratio Lower Upper

91 100

92 60.2 47.4 71.0



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0

400000

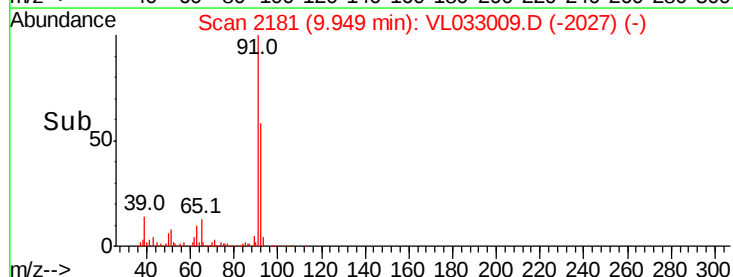
300000

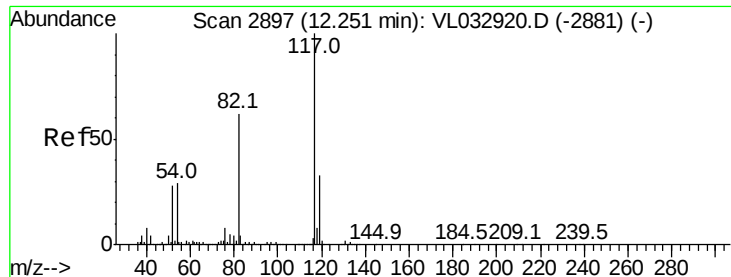
200000

100000

0

Time--> 9.90 9.95 10.00

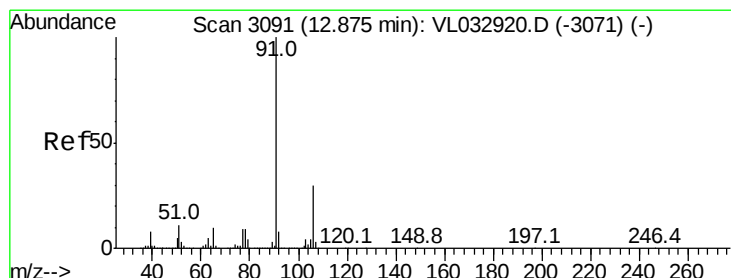
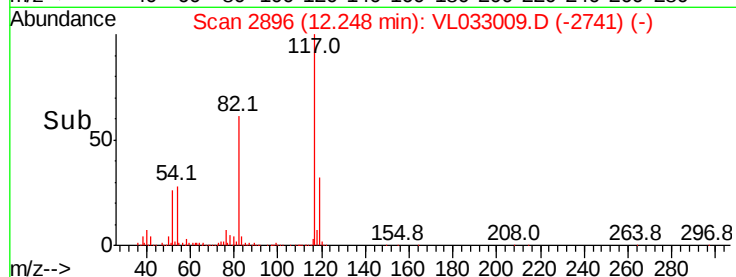
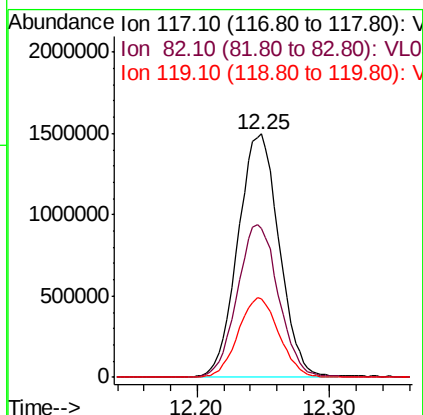
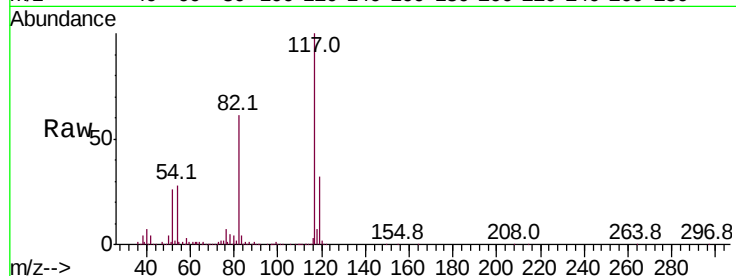




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2896
Delta R.T. -0.00 min
Lab File: VL033009.D
Acq: 17 Dec 2018 23:49

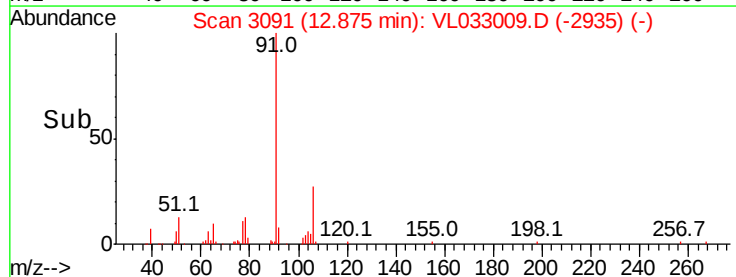
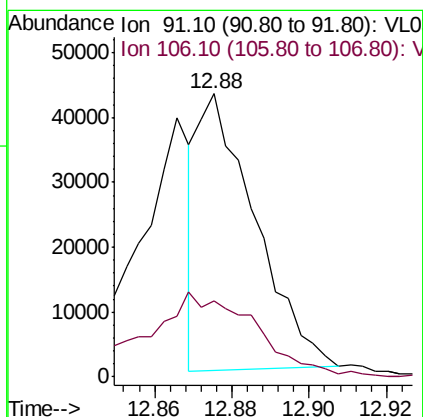
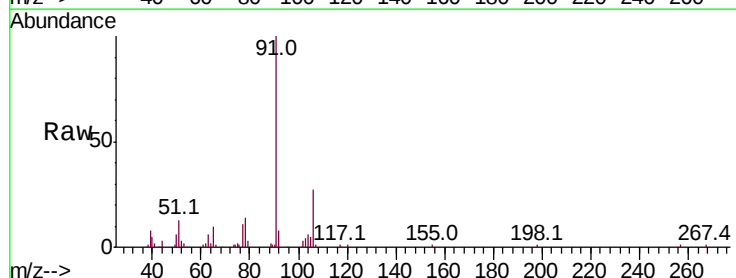
Instrument :
MSVOA_L
ClientSampleId :

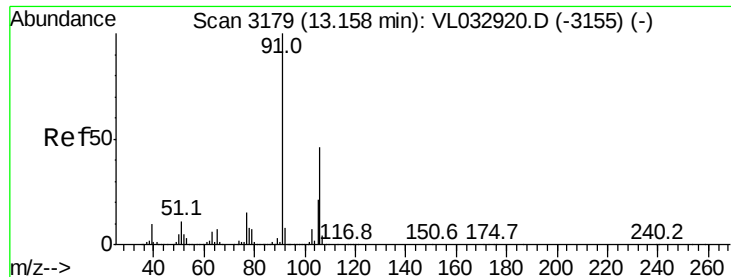
Tot Ion:117 Resp: 3239810
Ion Ratio Lower Upper
117 100
82 63.3 47.8 71.8
119 32.8 43.1 64.7#



#58
Ethyl Benzene
Concen: 0.126 ppbv
RT: 12.88 min Scan# 3091
Delta R.T. 0.00 min
Lab File: VL033009.D
Acq: 17 Dec 2018 23:49

Tgt Ion: 91 Resp: 43597
Ion Ratio Lower Upper
91 100
106 26.7 23.9 35.9





#59

m/p-Xylene

Concen: 0.103 ppbv

RT: 13.15 min Scan# 3177

Delta R.T. -0.01 min

Lab File: VL033009.D

Acq: 17 Dec 2018 23:49

Instrument :

MSVOA_L

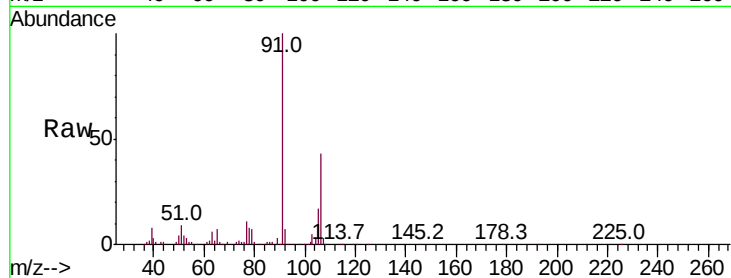
ClientSampleId :

Tot Ion: 91 Resp: 32279

Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

13.15

100000

80000

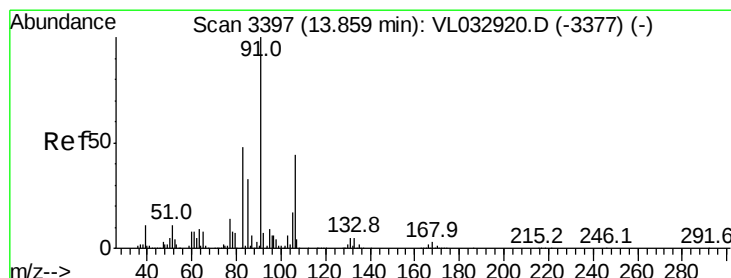
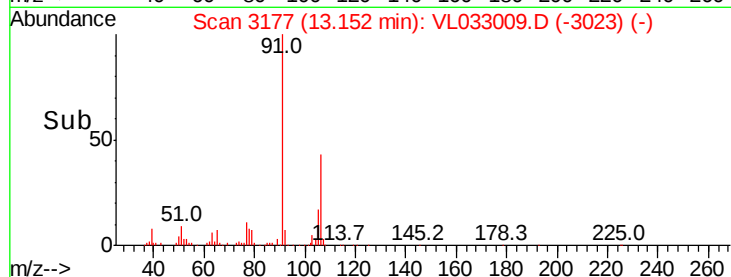
60000

40000

20000

0

Time-->



#60

o-Xylene

Concen: 0.283 ppbv

RT: 13.86 min Scan# 3397

Delta R.T. 0.00 min

Lab File: VL033009.D

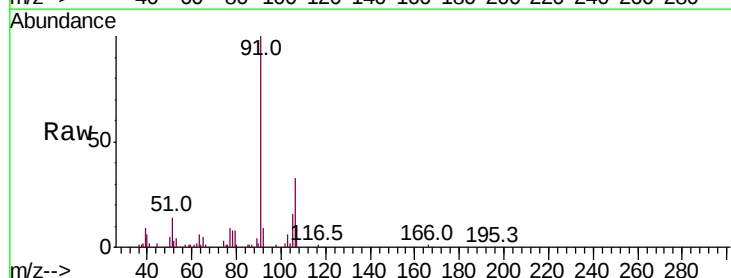
Acq: 17 Dec 2018 23:49

Tgt Ion: 91 Resp: 89535

Ion Ratio Lower Upper

91 100

106 43.6 21.9 65.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

13.86

50000

40000

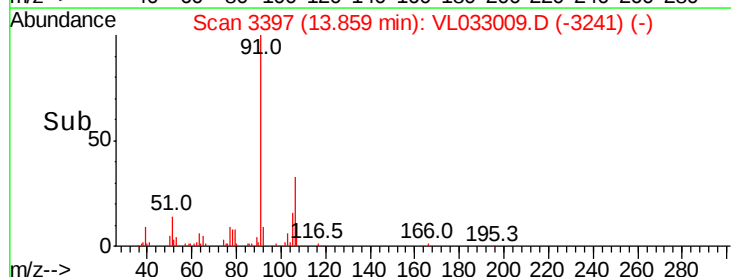
30000

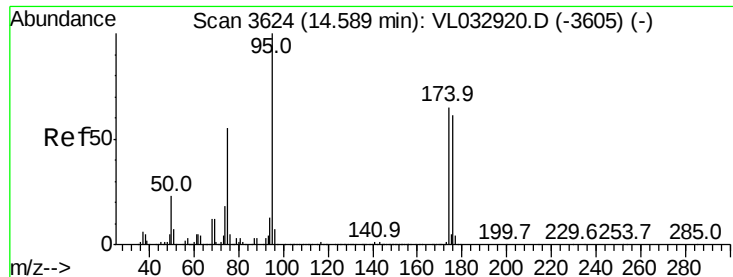
20000

10000

0

Time-->

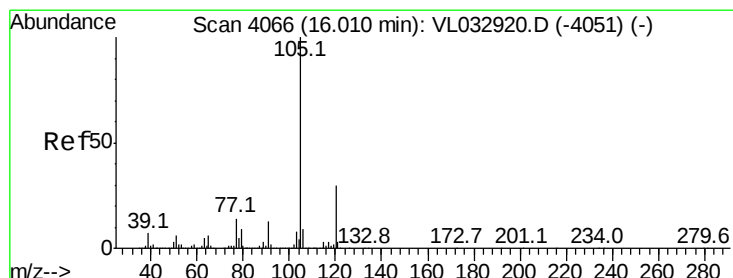
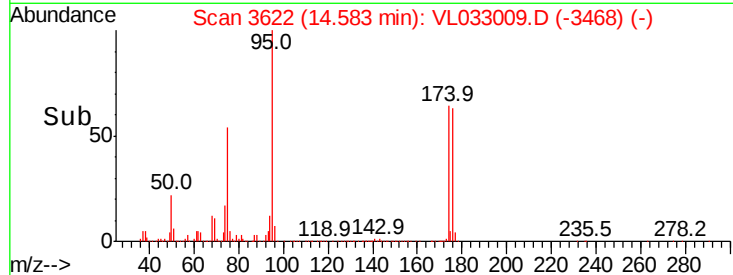
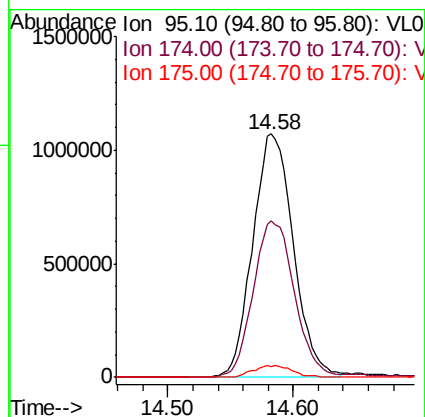
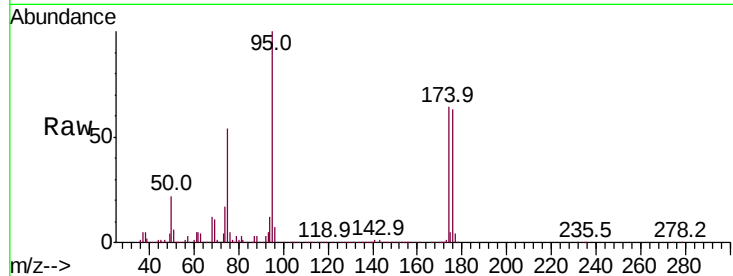




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.076 ppbv
 RT: 14.58 min Scan# 3622
 Delta R.T. -0.01 min
 Lab File: VL033009.D
 Acq: 17 Dec 2018 23:49

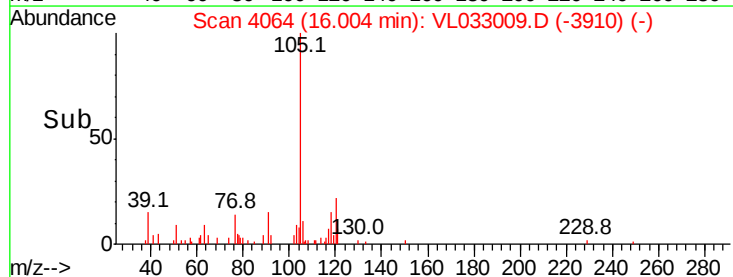
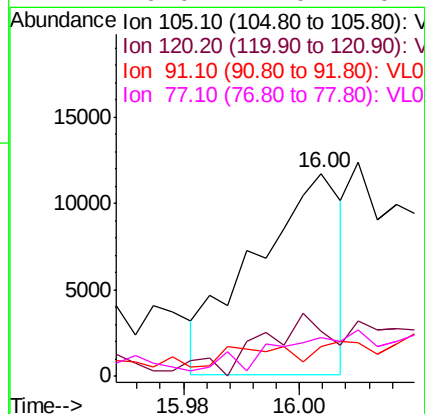
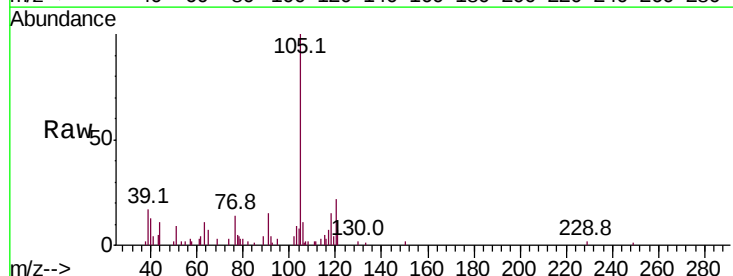
Instrument :
 MSVOA_L
 ClientSampled :

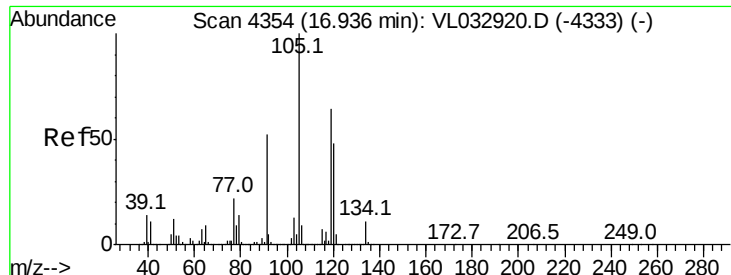
Tot Ion: 95 Resp: 2411761
 Ion Ratio Lower Upper
 95 100
 174 67.1 51.4 77.0
 175 4.9 3.8 5.6



#72
 4-Ethyltoluene
 Concen: 0.034 ppbv
 RT: 16.00 min Scan# 4064
 Delta R.T. -0.01 min
 Lab File: VL033009.D
 Acq: 17 Dec 2018 23:49

Tgt Ion: 105 Resp: 12184
 Ion Ratio Lower Upper
 105 100
 120 56.1 23.0 34.4#
 91 0.0 10.4 15.6#
 77 0.0 11.0 16.4#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.178 ppbv
 RT: 16.94 min Scan# 4354
 Delta R.T. 0.00 min
 Lab File: VL033009.D
 Acq: 17 Dec 2018 23:49

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:	105	Resp:	69401
Ion Ratio	Lower	Upper	
105	100		
120	43.4	38.6	58.0
91	16.9	41.7	62.5#
77	14.4	17.4	26.2#

