

Data File : VL032936.D
Acq On : 7 Dec 2018 15:52
Operator : SY/AP
Sample : J6262-01DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA1DL

Quant Time: Dec 08 02:00:17 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL120718AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 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	1318762	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3426867	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	3184375	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.58 95 2393410 10.17 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 101.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	8110	0.046	ppbv	96
3) Chlorodifluoromethane	3.02	51	10906	0.109	ppbv #	83
4) Chloromethane	3.17	50	11958	0.206	ppbv #	79
9) Propene	3.05	41	12375	0.313	ppbv #	73
13) Ethanol	3.66	45	159561	11.735	ppbv	93
15) Acetone	3.91	43	251148	2.219	ppbv	100
16) 1,3-Butadiene	3.35	39	1368	0.030	ppbv #	4
19) Isopropyl Alcohol	4.04	45	83773	1.178	ppbv #	94
20) Methylene Chloride	4.42	84	53025	0.958	ppbv	96
25) Ethyl Acetate	5.78	43	79052	0.296	ppbv #	89
26) Hexane	5.78	57	76025	0.616	ppbv #	55
34) 2-Butanone	5.35	43	15724	0.105	ppbv #	75
39) 1,2-Dichloropropane	7.29	63	837122	8.757	ppbv #	21
43) Methyl Methacrylate	8.14	69	5997	0.064	ppbv #	1
52) Tetrachloroethene	11.37	164	19081	0.208	ppbv #	73
53) Toluene	9.95	91	132296	0.495	ppbv	100

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

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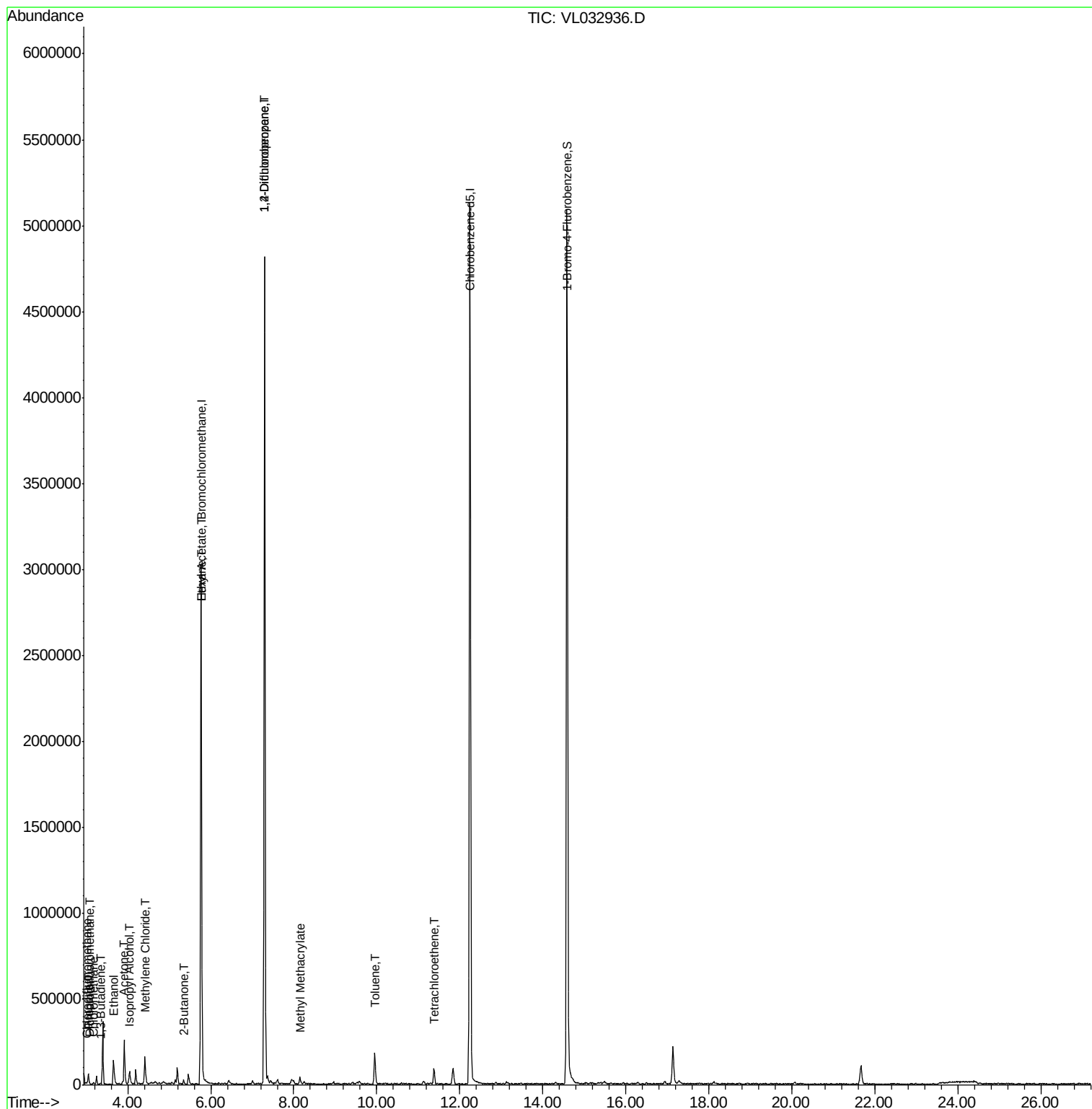
Quant Time: Dec 08 02:00:17 2018

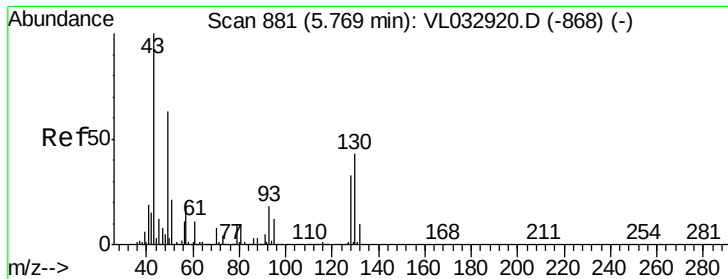
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_L\METHODS\VL120718AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Dec 07 09:35:17 2018

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

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.00 min

Lab File: VL032936.D

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Instrument :

MSVOA_L

ClientSampleId :

IA1DL

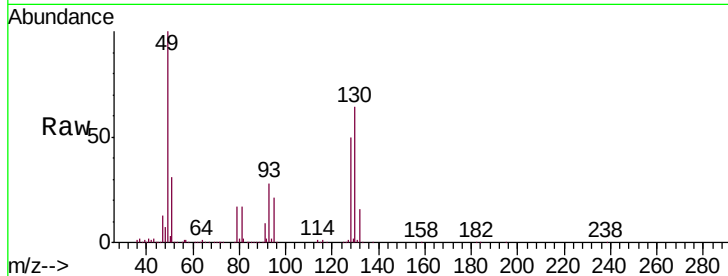
Tgt Ion: 49 Resp: 1318762

Ion Ratio Lower Upper

49 100

128 51.8 26.3 78.8

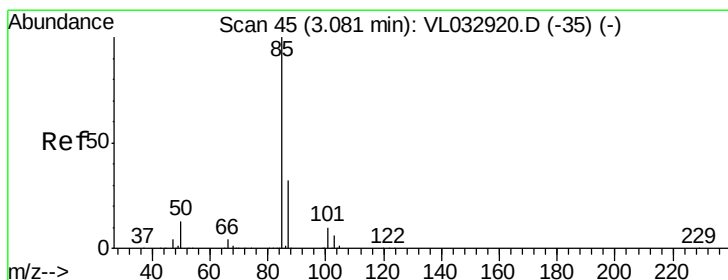
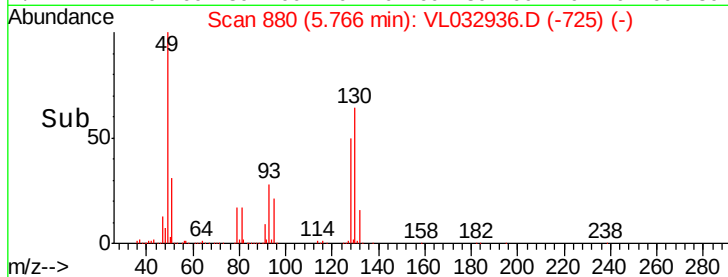
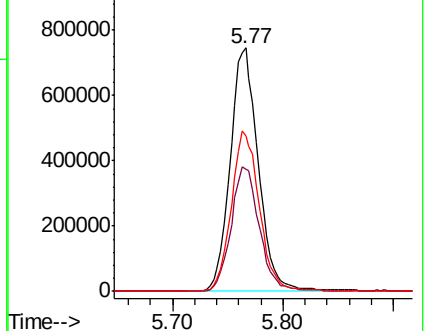
130 65.8 33.9 101.7



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.046 ppbv

RT: 3.08 min Scan# 45

Delta R.T. 0.00 min

Lab File: VL032936.D

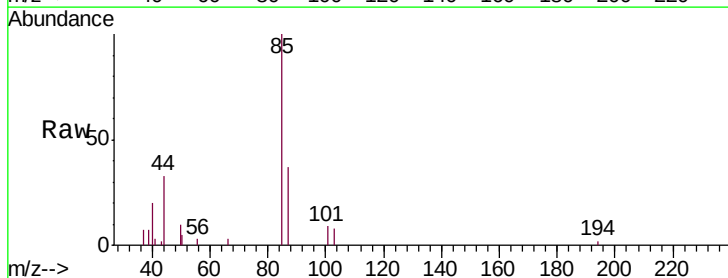
Acq: 7 Dec 2018 15:52

Tgt Ion: 85 Resp: 8110

Ion Ratio Lower Upper

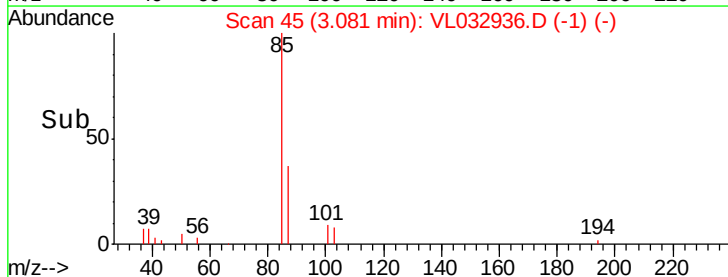
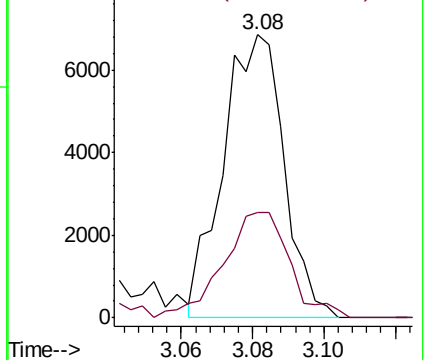
85 100

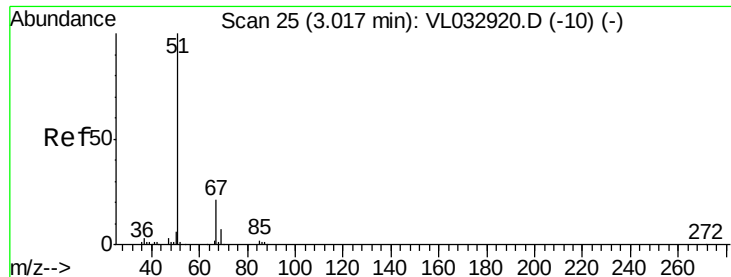
87 34.3 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

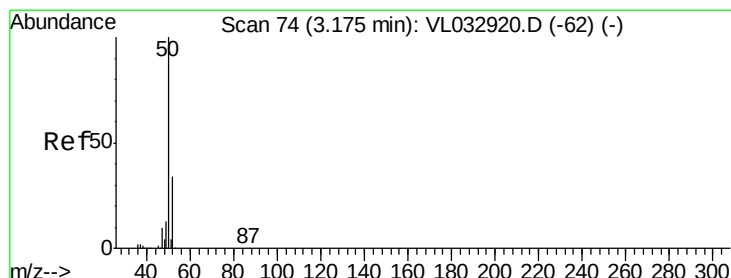
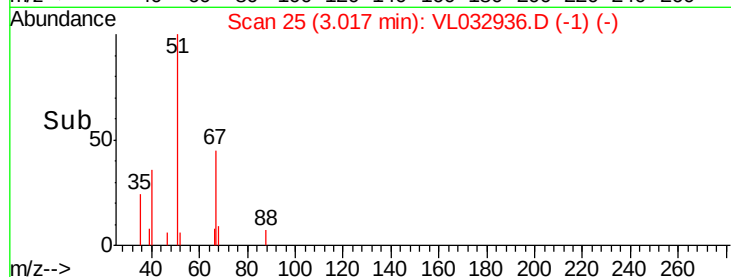
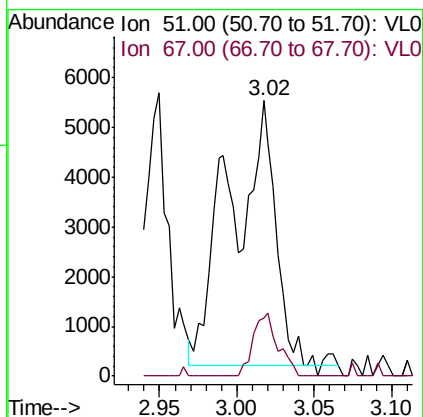
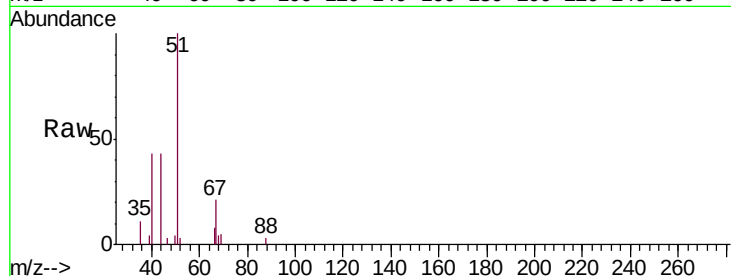




#3
Chlorodifluoromethane
Concen: 0.109 ppbv
RT: 3.02 min Scan# 25
Delta R.T. 0.00 min
Lab File: VL032936.D
Acq: 7 Dec 2018 15:52

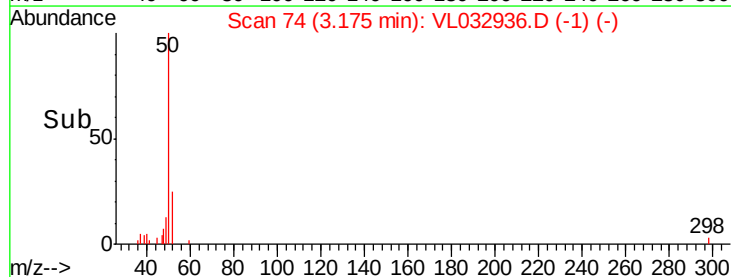
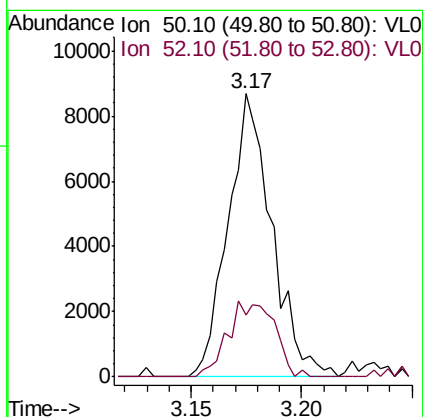
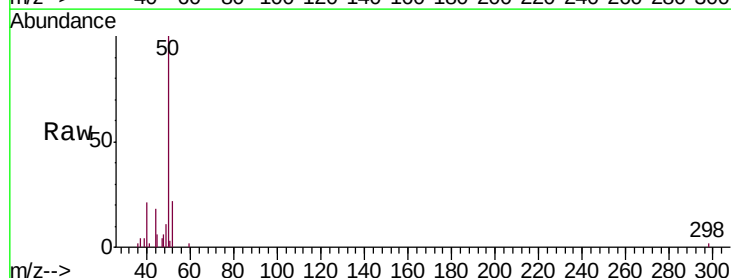
Instrument :
MSVOA_L
ClientSampleId :
IA1DL

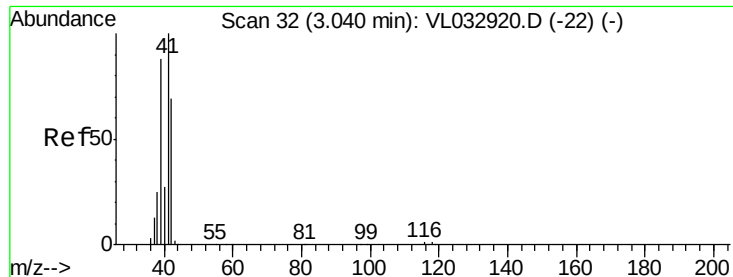
Tgt Ion: 51 Resp: 10906
Ion Ratio Lower Upper
51 100
67 13.1 16.8 25.2#



#4
Chloromethane
Concen: 0.206 ppbv
RT: 3.17 min Scan# 74
Delta R.T. 0.00 min
Lab File: VL032936.D
Acq: 7 Dec 2018 15:52

Tgt Ion: 50 Resp: 11958
Ion Ratio Lower Upper
50 100
52 22.0 27.3 40.9#





#9

Propene

Concen: 0.313 ppbv

RT: 3.05 min Scan# 36

Delta R.T. 0.01 min

Lab File: VL032936.D

Acq: 7 Dec 2018 15:52

Instrument :

MSVOA_L

ClientSampleId :

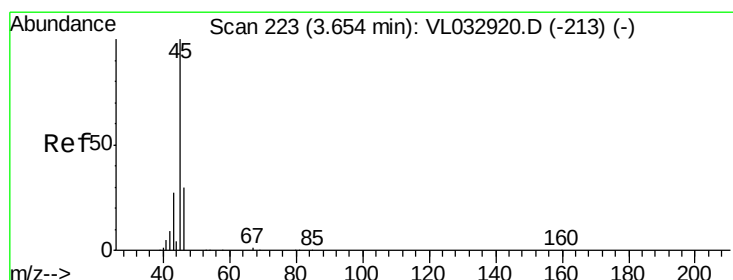
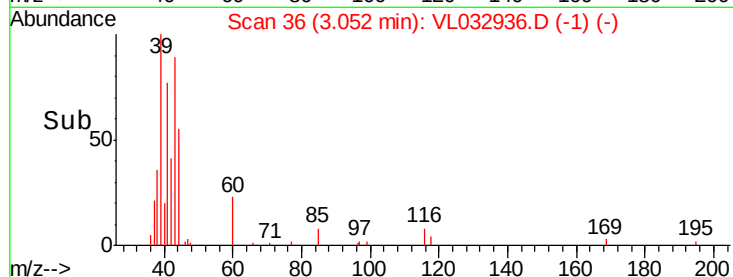
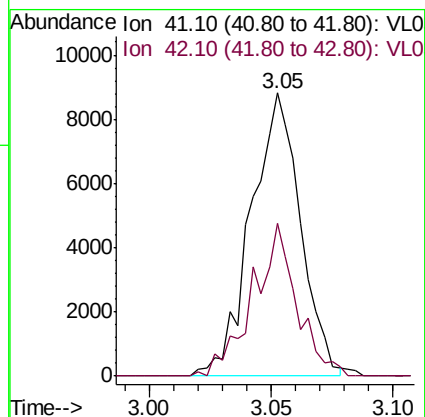
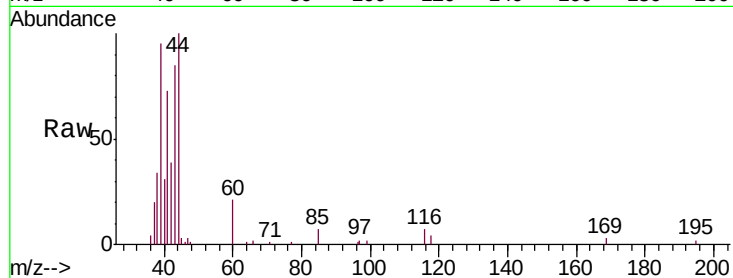
IA1DL

Tgt Ion: 41 Resp: 12375

Ion Ratio Lower Upper

41 100

42 48.1 56.2 84.2#



#13

Ethanol

Concen: 11.735 ppbv

RT: 3.66 min Scan# 225

Delta R.T. 0.01 min

Lab File: VL032936.D

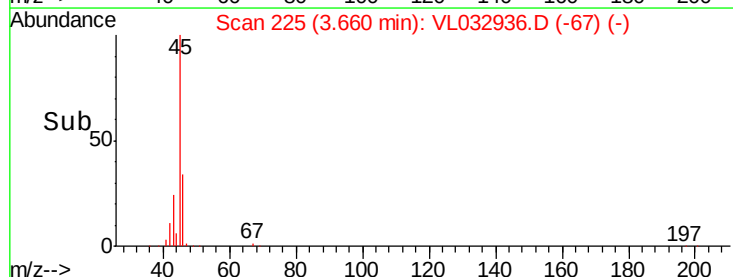
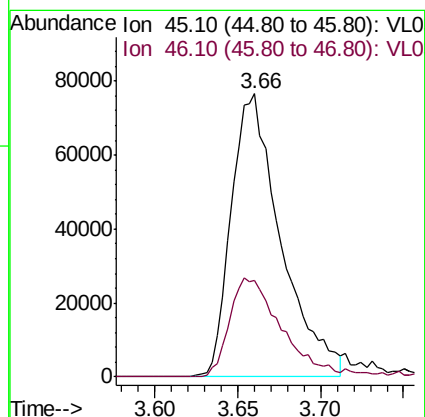
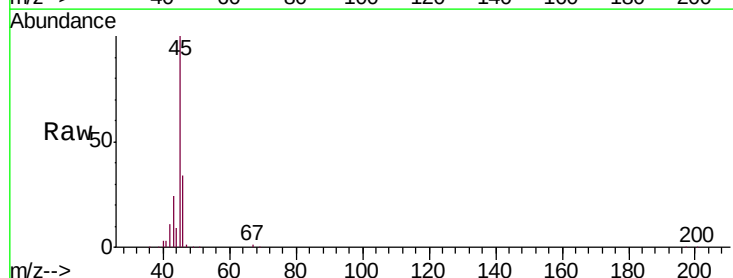
Acq: 7 Dec 2018 15:52

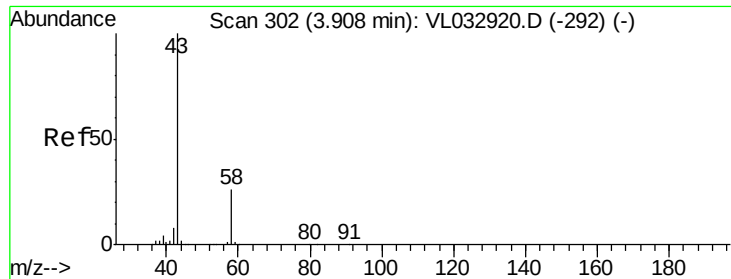
Tgt Ion: 45 Resp: 159561

Ion Ratio Lower Upper

45 100

46 38.6 13.8 55.4





#15

Acetone

Concen: 2.219 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.00 min

Lab File: VL032936.D

Acq: 7 Dec 2018 15:52

Instrument :

MSVOA_L

ClientSampleId :

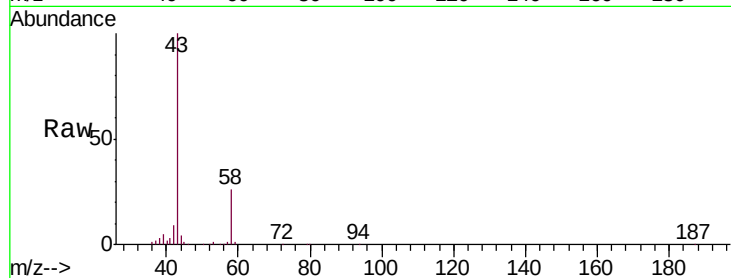
IA1DL

Tgt Ion: 43 Resp: 251148

Ion Ratio Lower Upper

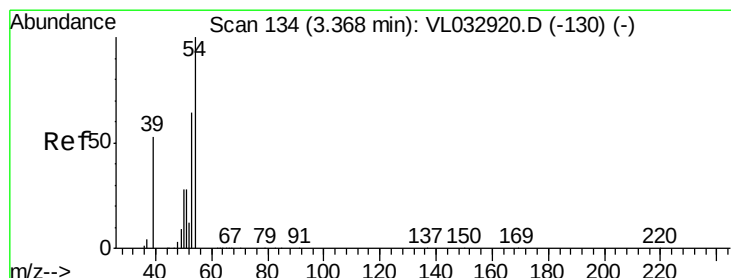
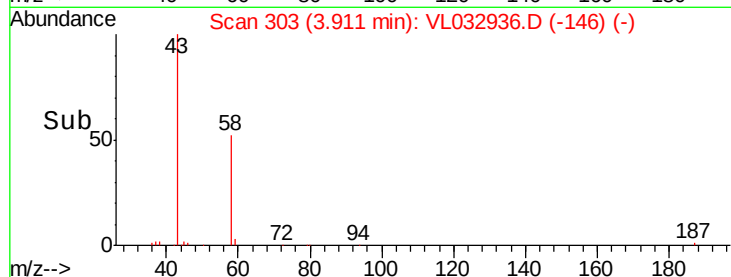
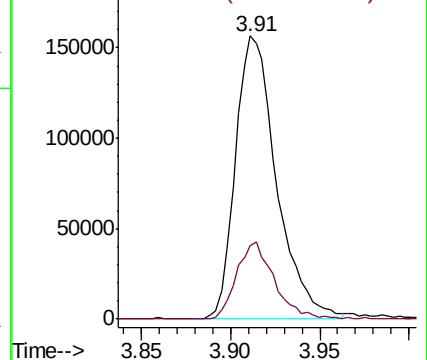
43 100

58 25.6 20.6 30.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.030 ppbv

RT: 3.35 min Scan# 128

Delta R.T. -0.02 min

Lab File: VL032936.D

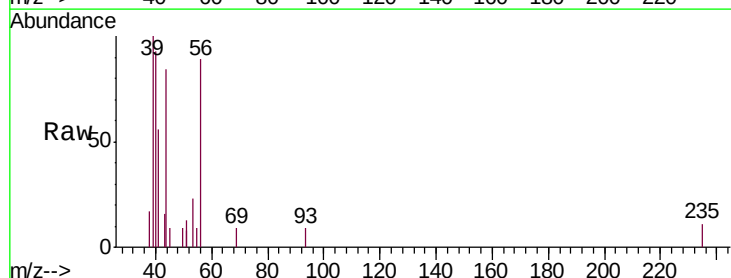
Acq: 7 Dec 2018 15:52

Tgt Ion: 39 Resp: 1368

Ion Ratio Lower Upper

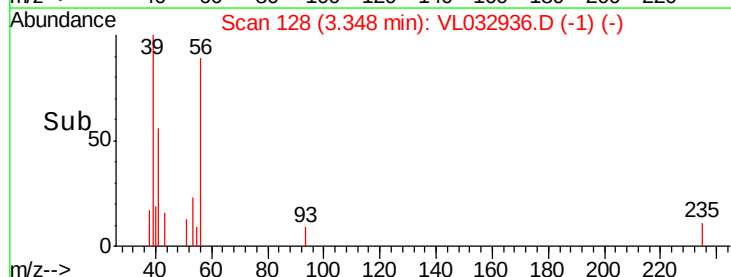
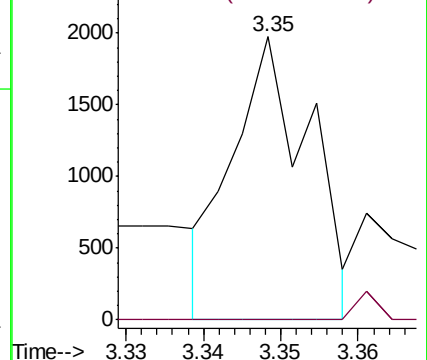
39 100

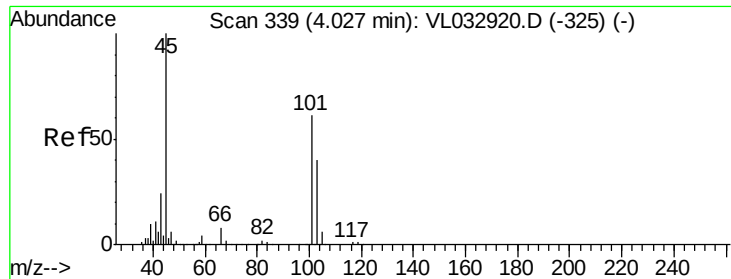
54 0.0 72.7 109.1#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#19

Isopropyl Alcohol

Concen: 1.178 ppbv

RT: 4.04 min Scan# 344

Delta R.T. 0.02 min

Lab File: VL032936.D

Acq: 7 Dec 2018 15:52

Instrument :

MSVOA_L

ClientSampleId :

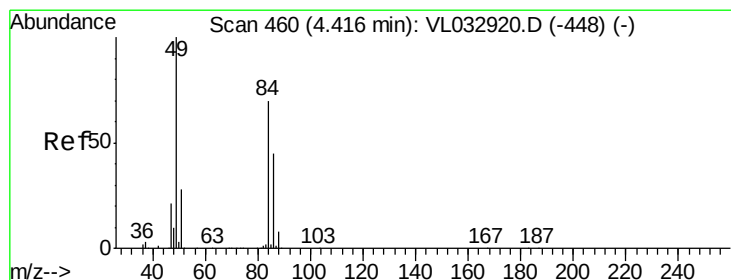
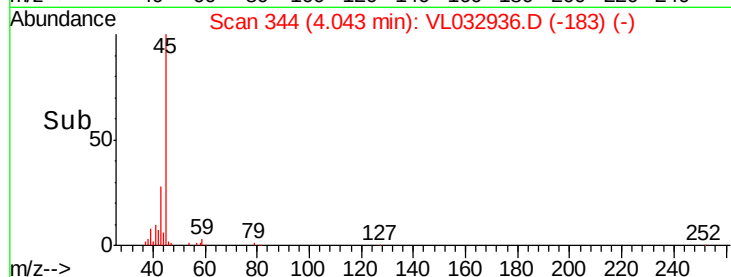
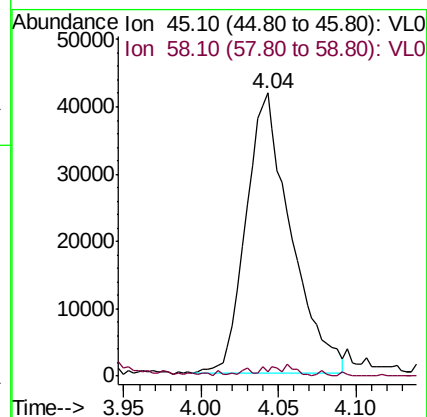
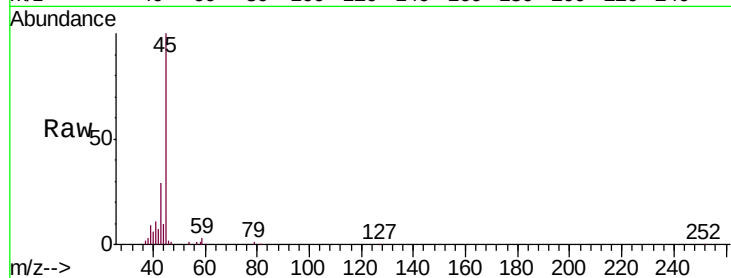
IA1DL

Tgt Ion: 45 Resp: 83773

Ion Ratio Lower Upper

45 100

58 3.8 1.4 2.2#



#20

Methylene Chloride

Concen: 0.958 ppbv

RT: 4.42 min Scan# 460

Delta R.T. 0.00 min

Lab File: VL032936.D

Acq: 7 Dec 2018 15:52

Tgt Ion: 84 Resp: 53025

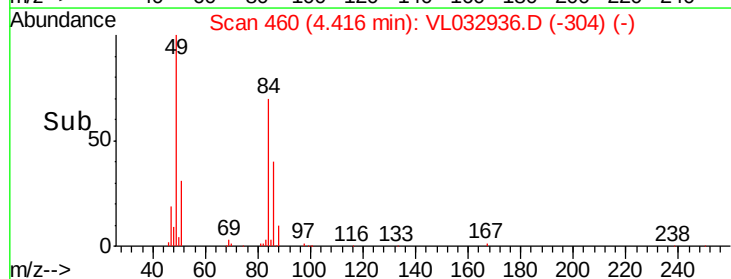
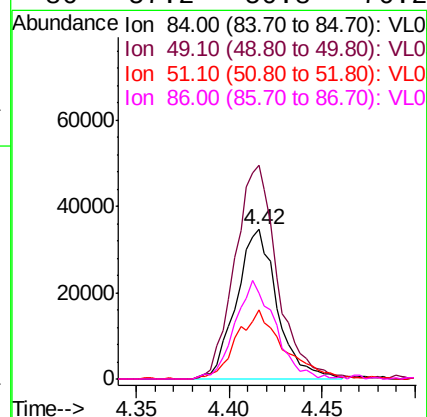
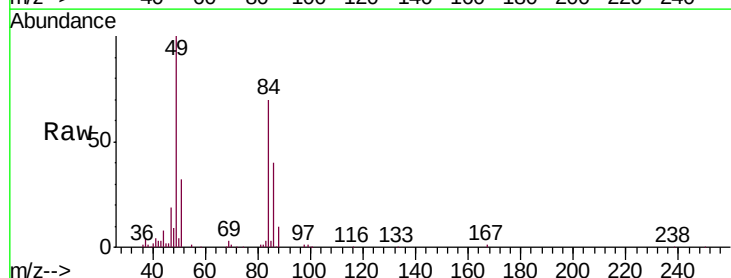
Ion Ratio Lower Upper

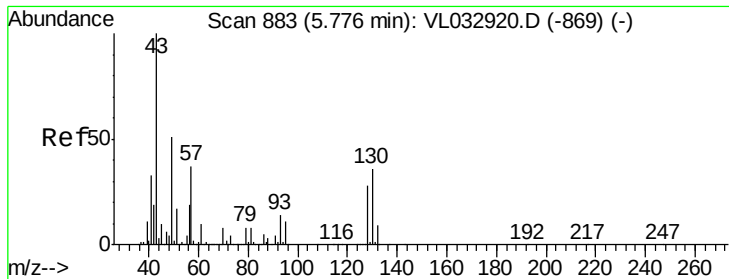
84 100

49 143.1 113.8 170.8

51 46.2 31.8 47.8

86 57.2 50.8 76.2

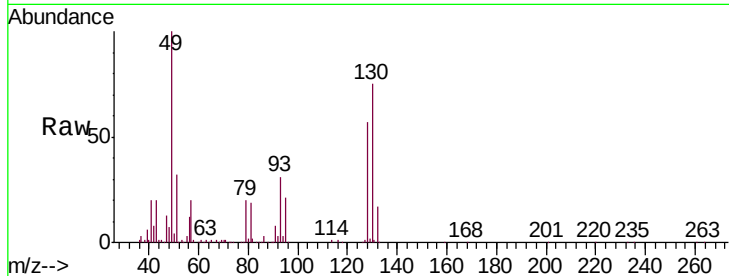




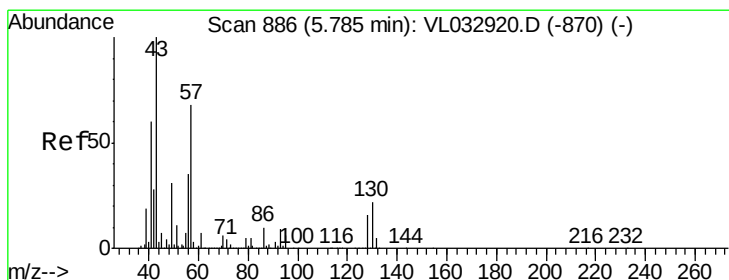
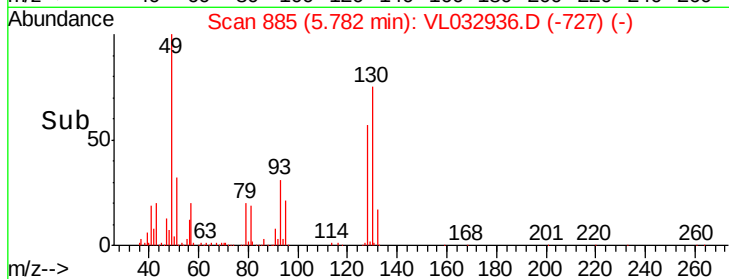
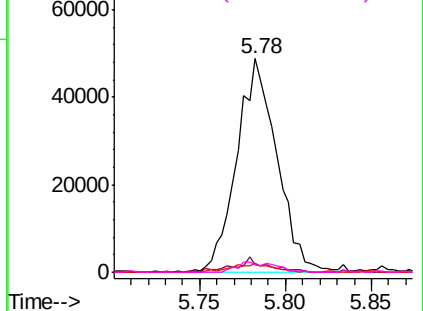
#25
Ethyl Acetate
Concen: 0.296 ppbv
RT: 5.78 min Scan# 885
Delta R.T. 0.01 min
Lab File: VL032936.D
Acq: 7 Dec 2018 15:52

Instrument :
MSVOA_L
ClientSampleId :
IA1DL

Tgt Ion:	43	Resp:	79052
Ion	Ratio	Lower	Upper
43	100		
45	5.4	7.8	11.6#
61	4.4	7.4	11.2#
70	4.5	5.7	8.5#

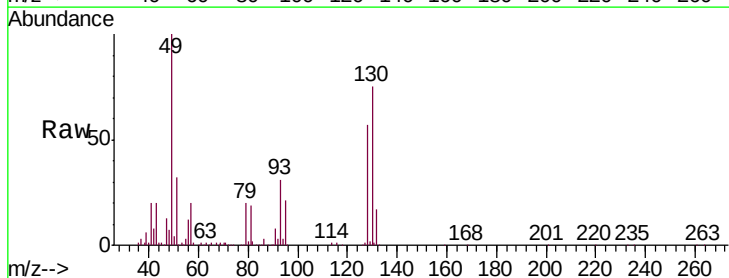


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

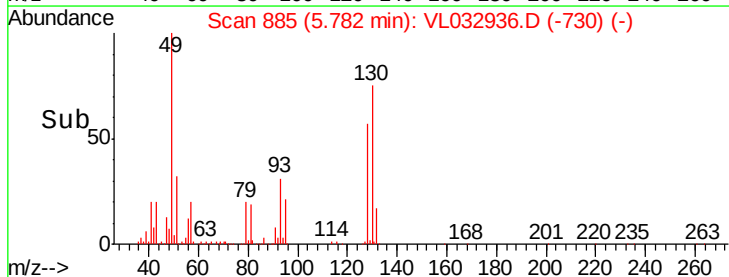
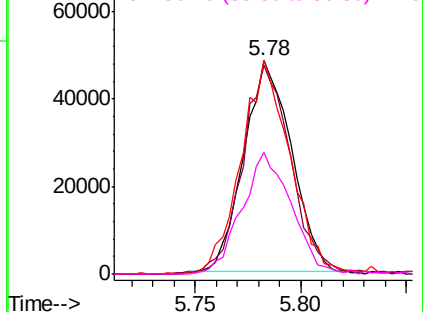


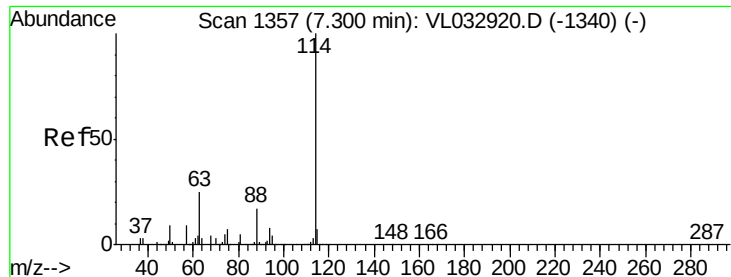
#26
Hexane
Concen: 0.616 ppbv
RT: 5.78 min Scan# 885
Delta R.T. -0.00 min
Lab File: VL032936.D
Acq: 7 Dec 2018 15:52

Tgt Ion:	57	Resp:	76025
Ion	Ratio	Lower	Upper
57	100		
41	100.3	72.2	108.2
43	106.3	171.9	257.9#
56	60.1	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





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1355

Delta R.T. -0.01 min

Lab File: VL032936.D

Acq: 7 Dec 2018 15:52

Instrument :

MSVOA_L

ClientSampleId :

IA1DL

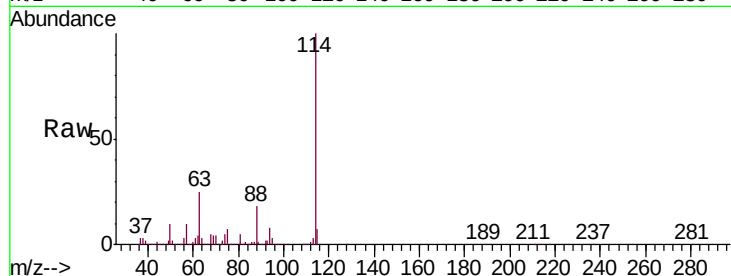
Tgt Ion:114 Resp: 3426867

Ion Ratio Lower Upper

114 100

63 24.6 20.1 30.1

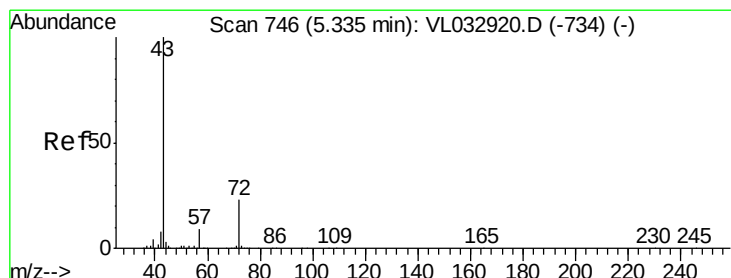
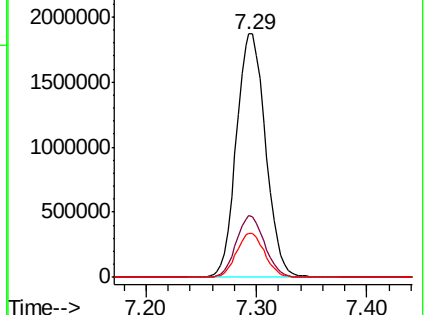
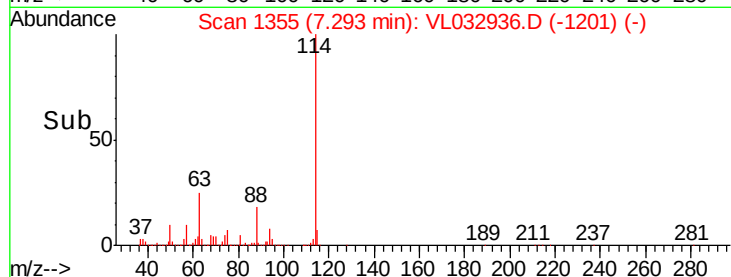
88 17.7 14.2 21.4



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.105 ppbv

RT: 5.35 min Scan# 750

Delta R.T. 0.01 min

Lab File: VL032936.D

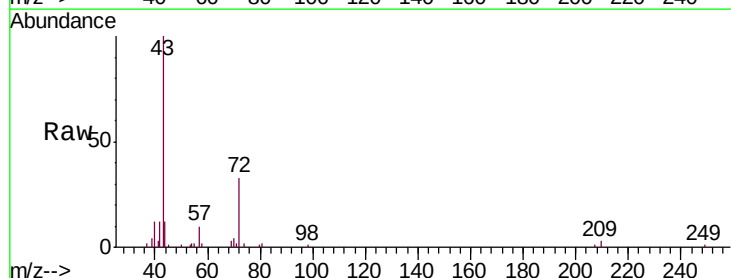
Acq: 7 Dec 2018 15:52

Tgt Ion: 43 Resp: 15724

Ion Ratio Lower Upper

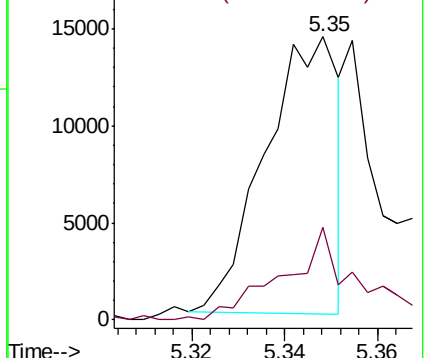
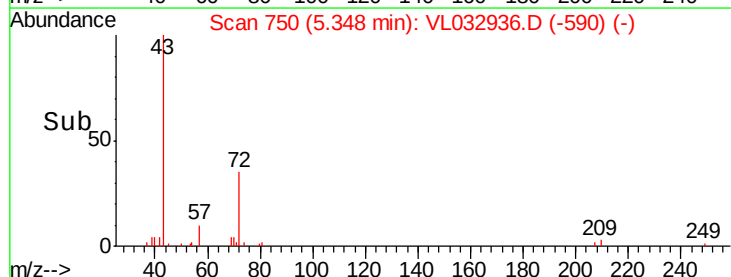
43 100

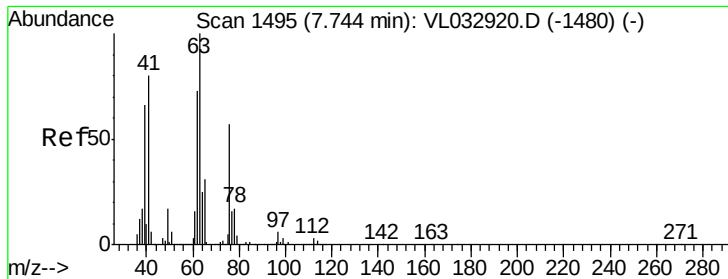
72 35.9 18.8 28.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#39

1,2-Dichloropropane

Concen: 8.757 ppbv

RT: 7.29 min Scan# 1355

Delta R.T. -0.45 min

Lab File: VL032936.D

Acq: 7 Dec 2018 15:52

Instrument :

MSVOA_L

ClientSampleId :

IA1DL

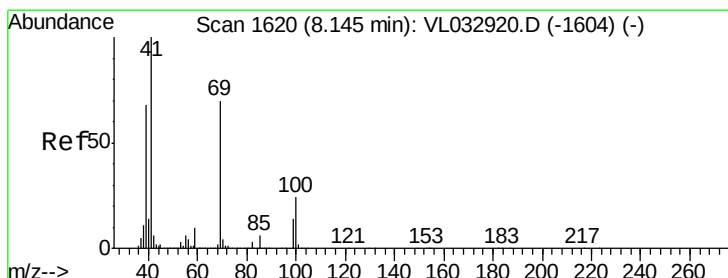
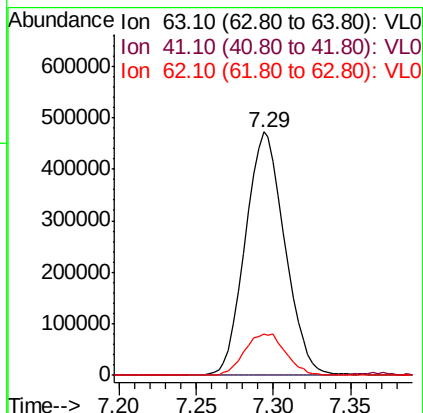
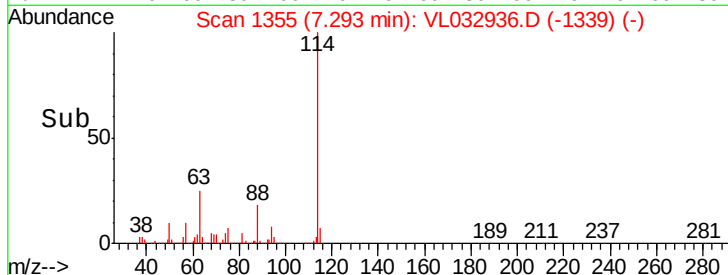
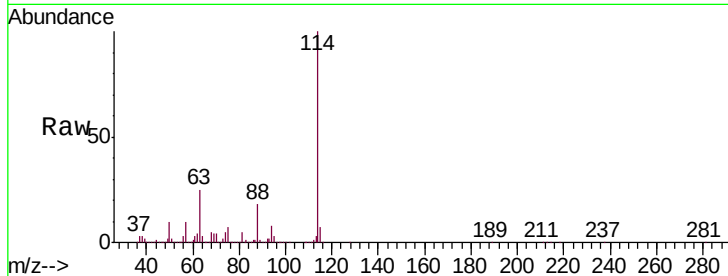
Tgt Ion: 63 Resp: 837122

Ion Ratio Lower Upper

63 100

41 0.0 63.9 95.9#

62 17.1 58.8 88.2#



#43

Methyl Methacrylate

Concen: 0.064 ppbv

RT: 8.14 min Scan# 1619

Delta R.T. -0.00 min

Lab File: VL032936.D

Acq: 7 Dec 2018 15:52

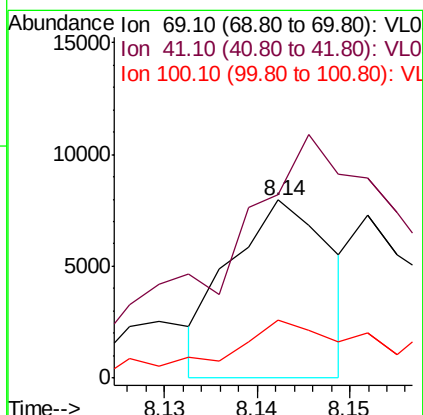
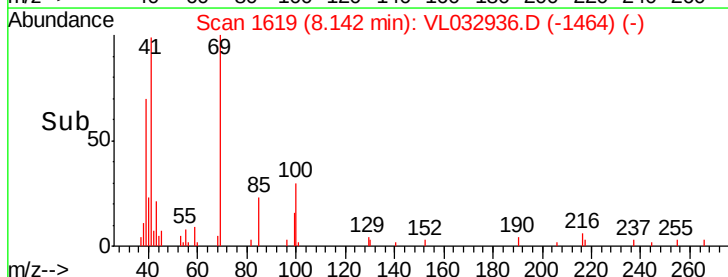
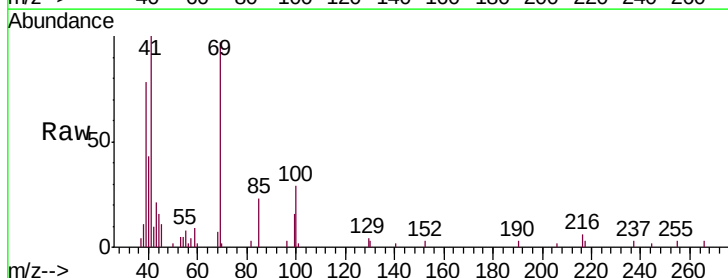
Tgt Ion: 69 Resp: 5997

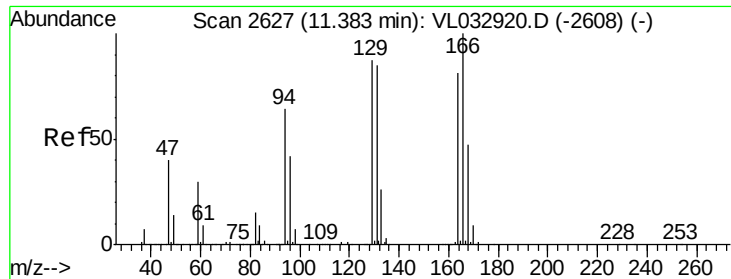
Ion Ratio Lower Upper

69 100

41 321.2 116.6 175.0#

100 76.1 26.5 39.7#





#52

Tetrachloroethene

Concen: 0.208 ppbv

RT: 11.37 min Scan# 2624

Delta R.T. -0.01 min

Lab File: VL032936.D

Acq: 7 Dec 2018 15:52

Instrument :

MSVOA_L

ClientSampleId :

IA1DL

Tgt Ion:164 Resp: 19081

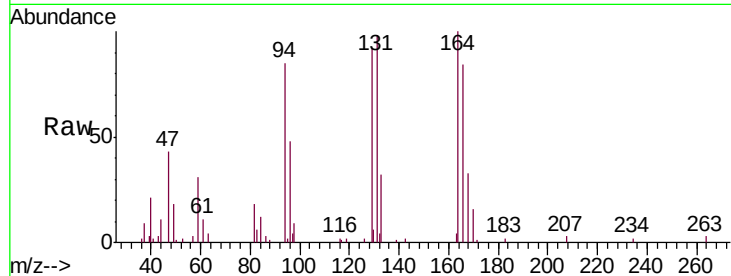
Ion Ratio Lower Upper

164 100

166 63.1 98.8 148.2#

129 96.3 85.5 128.3

131 91.6 84.4 126.6

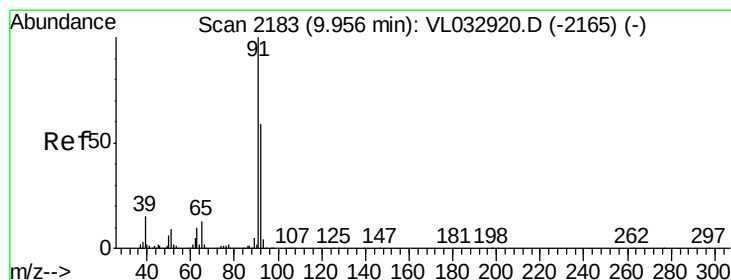
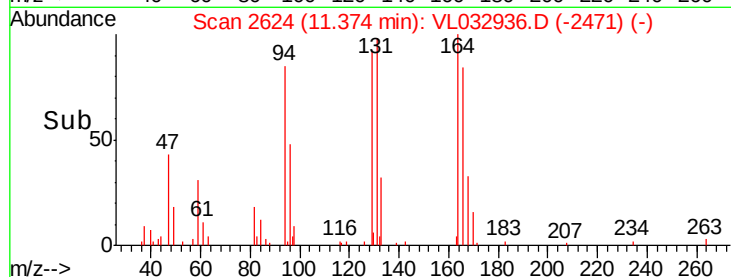
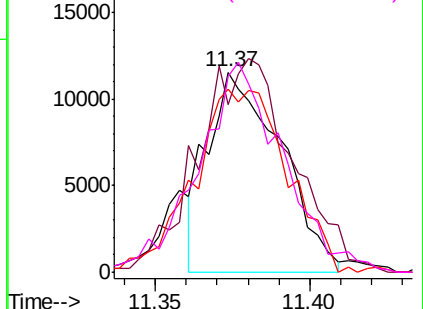


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.495 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. -0.00 min

Lab File: VL032936.D

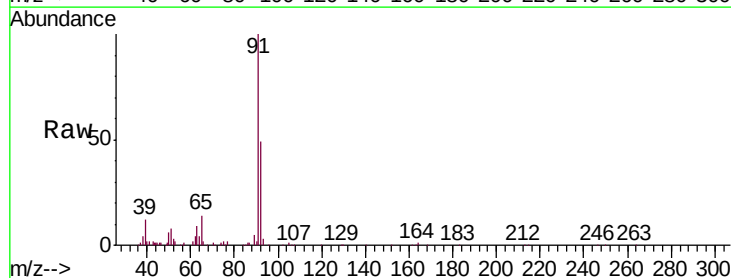
Acq: 7 Dec 2018 15:52

Tgt Ion: 91 Resp: 132296

Ion Ratio Lower Upper

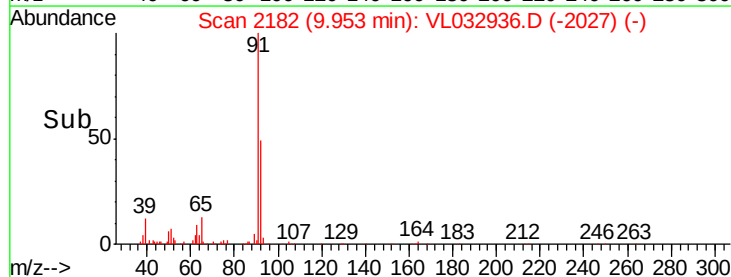
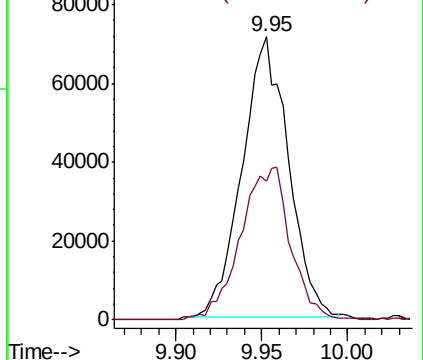
91 100

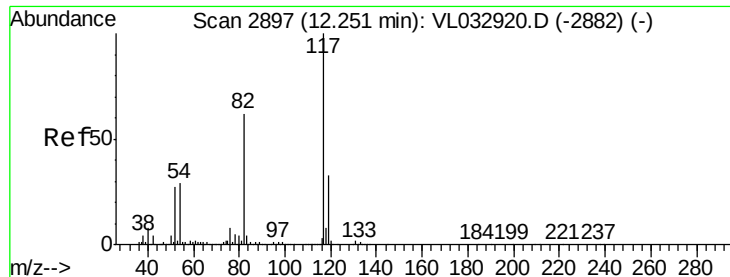
92 58.9 47.4 71.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2894

Delta R.T. -0.01 min

Lab File: VL032936.D

Acq: 7 Dec 2018 15:52

Instrument :

MSVOA_L

ClientSampleId :

IA1DL

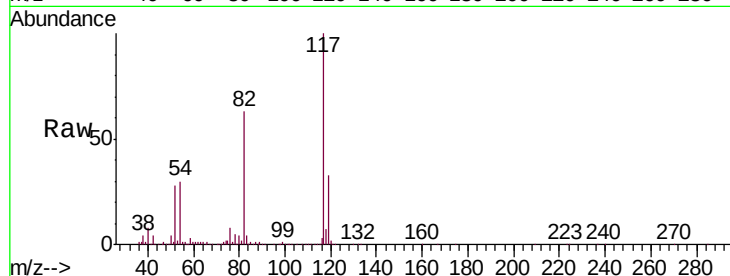
Tgt Ion:117 Resp: 3184375

Ion Ratio Lower Upper

117 100

82 64.1 47.8 71.8

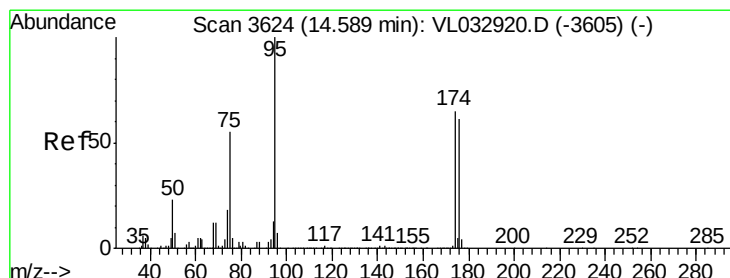
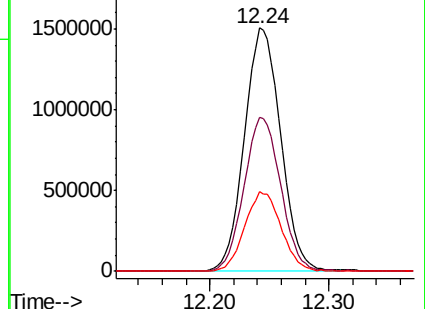
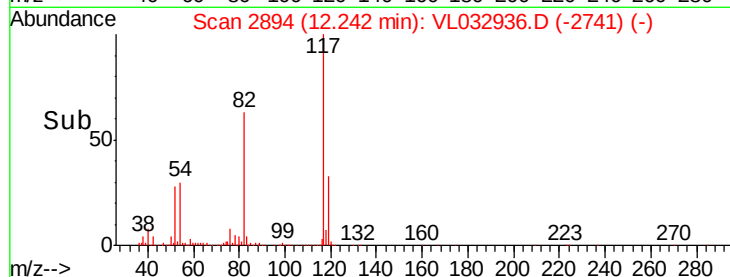
119 32.8 43.1 64.7#



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.174 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. -0.01 min

Lab File: VL032936.D

Acq: 7 Dec 2018 15:52

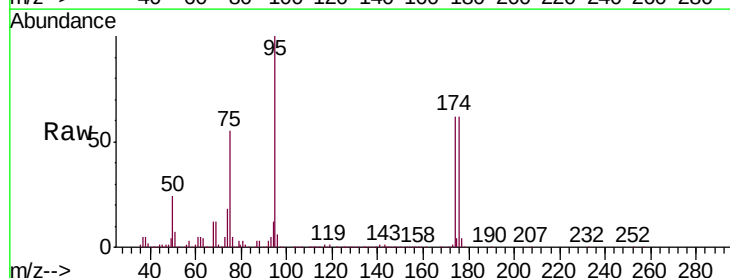
Tgt Ion: 95 Resp: 2393410

Ion Ratio Lower Upper

95 100

174 65.4 51.4 77.0

175 4.8 3.8 5.6



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

