

Data File : VL032568.D
Acq On : 28 Sep 2018 3:23
Operator : SY/AP
Sample : J5094-03DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
PIA-1DL

Quant Time: Sep 28 04:29:50 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL092418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep 25 05:17:15 2018
QLast Update : Tue Sep 25 05:17:15 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1339063	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	2944195	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	2918757	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.61	95	2174295	9.88	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.80%

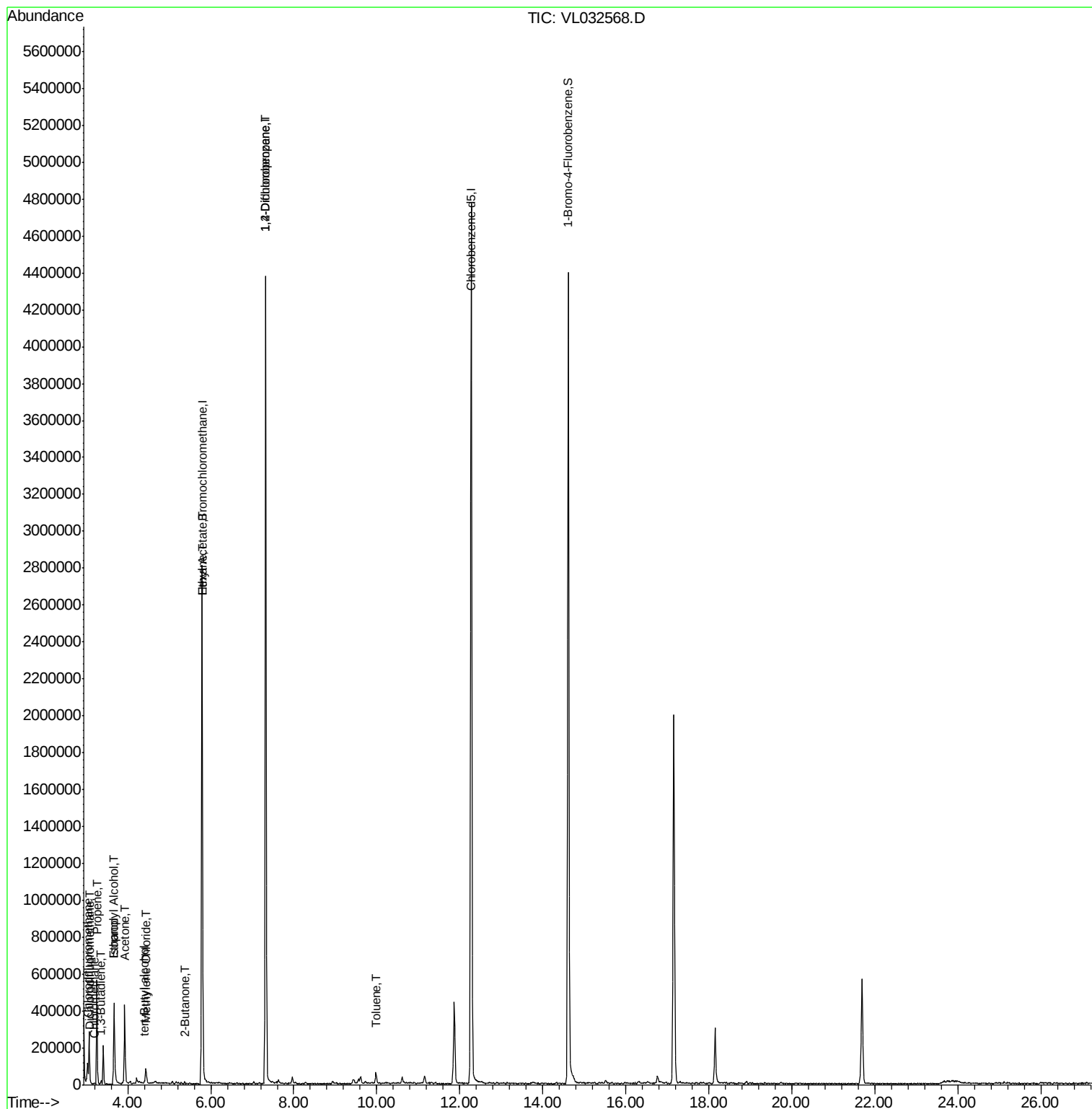
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.09	85	11325	0.091	ppbv	90
3) Chlorodifluoromethane	3.03	51	113507	1.019	ppbv	98
4) Chloromethane	3.19	50	3058	0.047	ppbv #	83
9) Propene	3.26	41	150451	3.114	ppbv	95
13) Ethanol	3.67	45	478273	32.933	ppbv	96
15) Acetone	3.93	43	400721	3.409	ppbv	100
16) 1,3-Butadiene	3.36	39	4886	0.103	ppbv #	1
17) tert-Butyl alcohol	4.40	59	1731	0.117	ppbv #	100
19) Isopropyl Alcohol	3.67	45	478273	5.842	ppbv #	93
20) Methylene Chloride	4.44	84	24902	0.437	ppbv #	90
25) Ethyl Acetate	5.80	43	44513	0.156	ppbv	98
26) Hexane	5.80	57	17301	0.134	ppbv #	28
34) 2-Butanone	5.37	43	6477	0.037	ppbv #	90
39) 1,2-Dichloropropane	7.32	63	801068	7.471	ppbv #	25
53) Toluene	9.98	91	20126	0.069	ppbv #	21

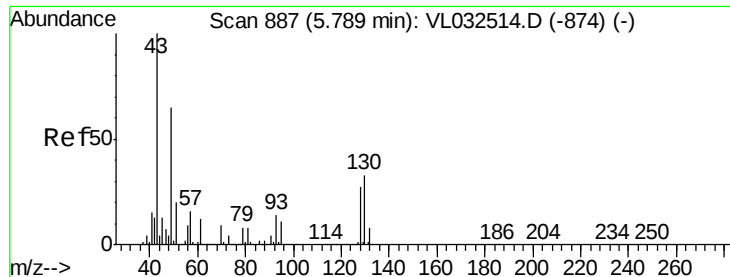
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.79 min Scan# 887

Delta R.T. -0.02 min

Lab File: VL032568.D

Acq: 28 Sep 2018 3:23

Instrument :

MSVOA_L

ClientSampleId :

PIA-1DL

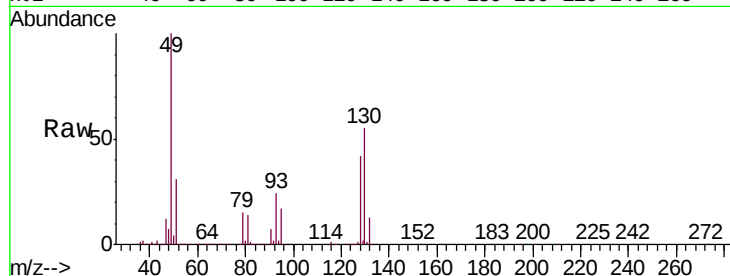
Tgt Ion: 49 Resp: 1339063

Ion Ratio Lower Upper

49 100

128 43.5 20.7 62.1

130 57.2 26.6 79.7



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

5.79

800000

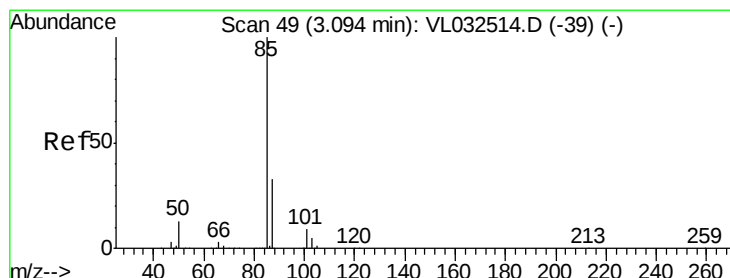
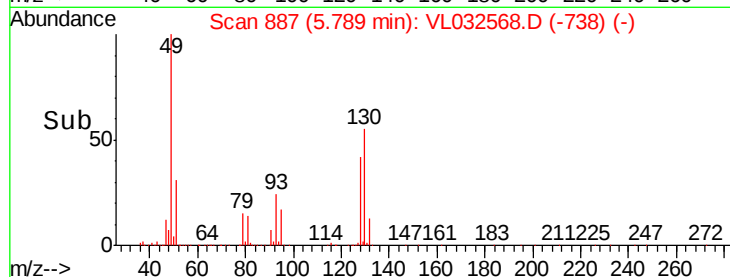
600000

400000

200000

0

Time--> 5.70 5.75 5.80 5.85



#2

Dichlorodifluoromethane

Concen: 0.091 ppbv

RT: 3.09 min Scan# 49

Delta R.T. -0.01 min

Lab File: VL032568.D

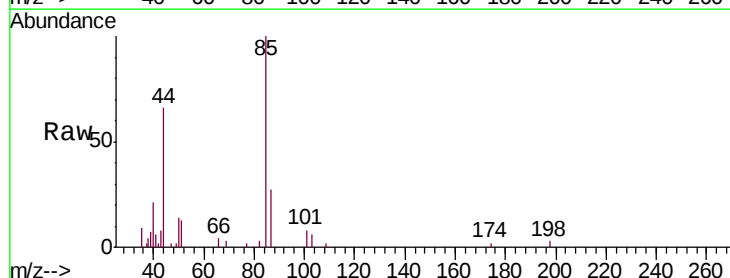
Acq: 28 Sep 2018 3:23

Tgt Ion: 85 Resp: 11325

Ion Ratio Lower Upper

85 100

87 27.0 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.09

10000

8000

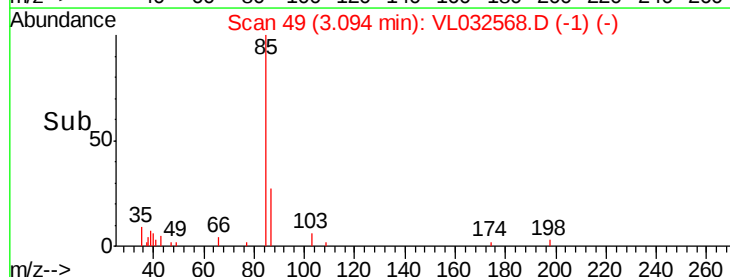
6000

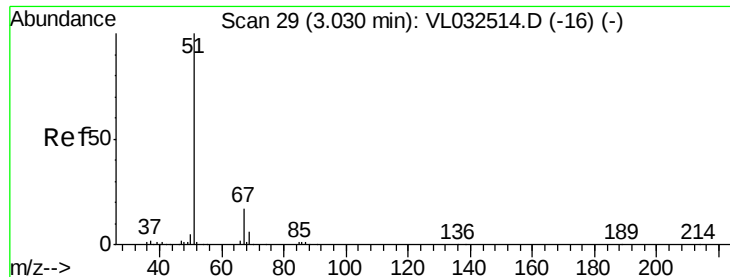
4000

2000

0

Time--> 3.06 3.08 3.10 3.12

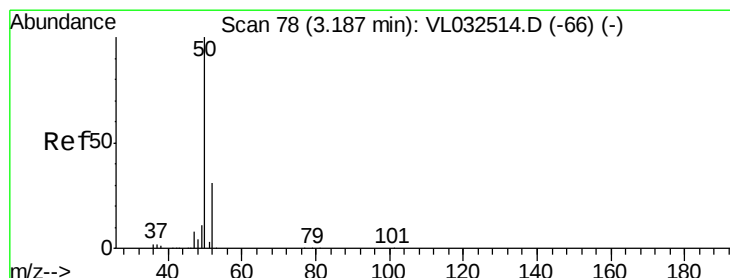
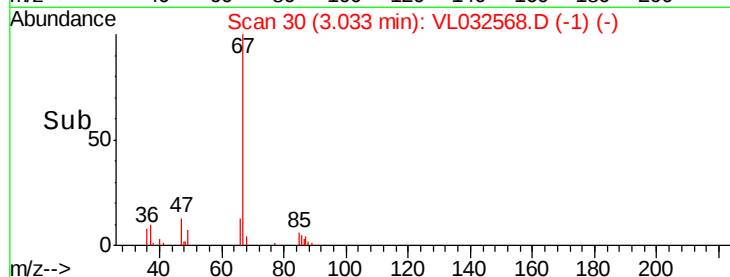
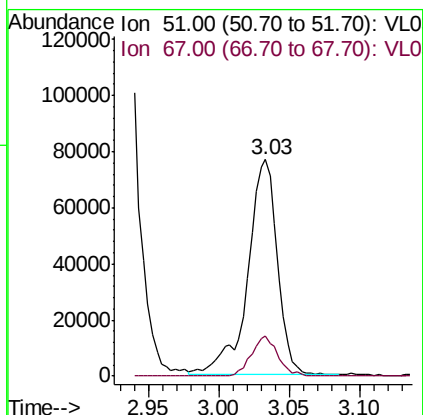
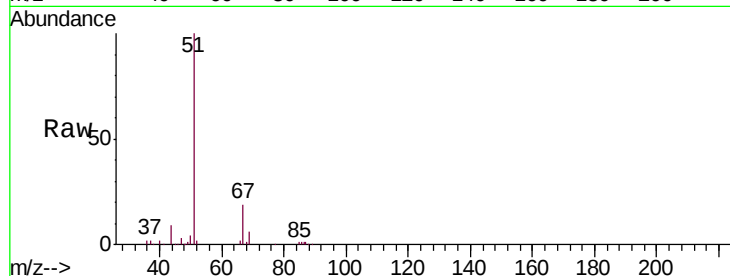




#3
 Chlorodifluoromethane
 Concen: 1.019 ppbv
 RT: 3.03 min Scan# 30
 Delta R.T. -0.01 min
 Lab File: VL032568.D
 Acq: 28 Sep 2018 3:23

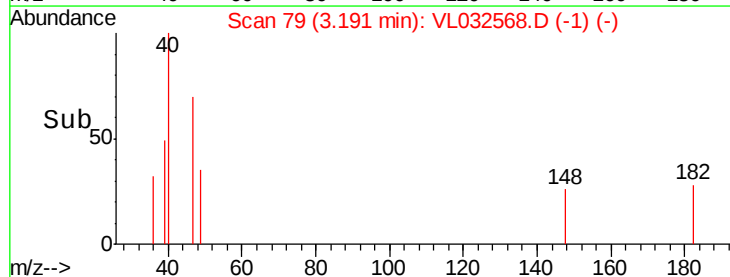
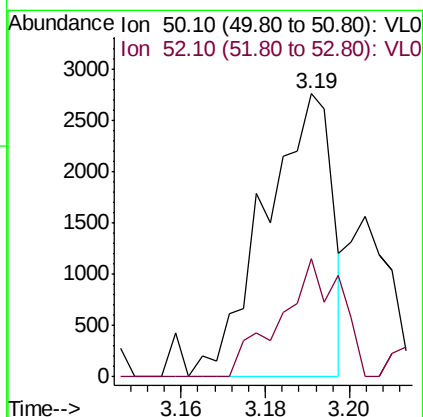
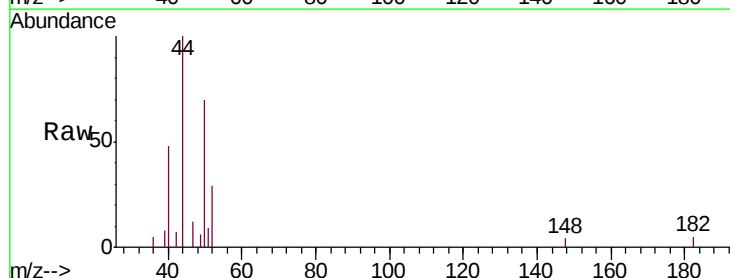
Instrument :
 MSVOA_L
 ClientSampleId :
 PIA-1DL

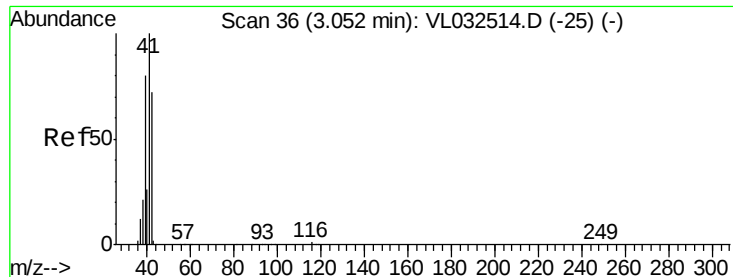
Tgt Ion: 51 Resp: 113507
 Ion Ratio Lower Upper
 51 100
 67 16.4 13.8 20.8



#4
 Chloromethane
 Concen: 0.047 ppbv
 RT: 3.19 min Scan# 79
 Delta R.T. -0.01 min
 Lab File: VL032568.D
 Acq: 28 Sep 2018 3:23

Tgt Ion: 50 Resp: 3058
 Ion Ratio Lower Upper
 50 100
 52 41.7 25.6 38.4#





#9

Propene

Concen: 3.114 ppbv

RT: 3.26 min Scan# 99

Delta R.T. 0.19 min

Lab File: VL032568.D

Acq: 28 Sep 2018 3:23

Instrument :

MSVOA_L

ClientSampleId :

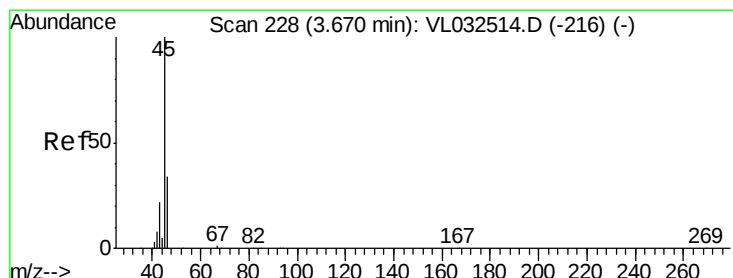
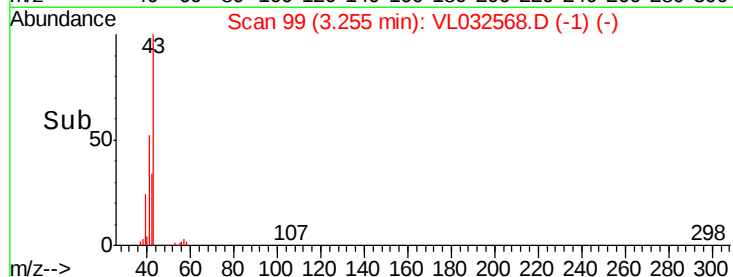
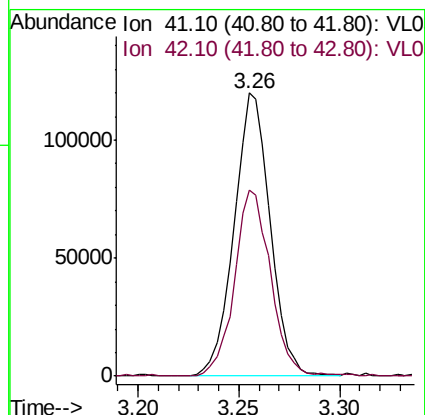
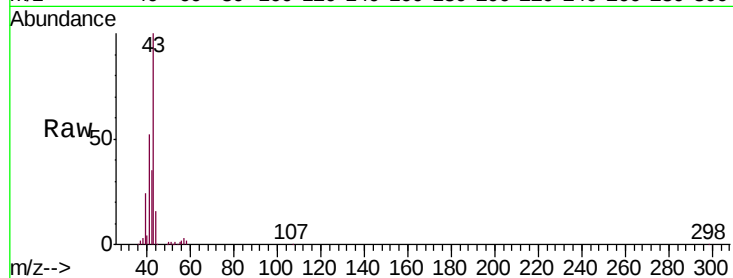
PIA-1DL

Tgt Ion: 41 Resp: 150451

Ion Ratio Lower Upper

41 100

42 66.4 56.6 84.8



#13

Ethanol

Concen: 32.933 ppbv

RT: 3.67 min Scan# 228

Delta R.T. -0.01 min

Lab File: VL032568.D

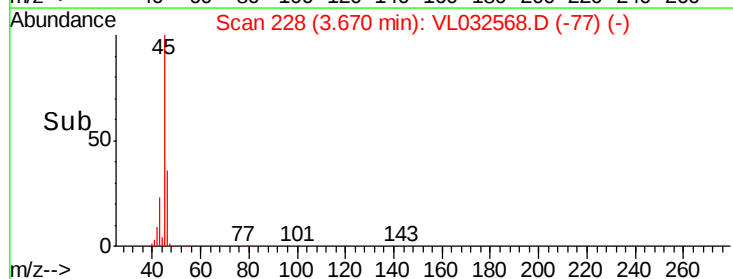
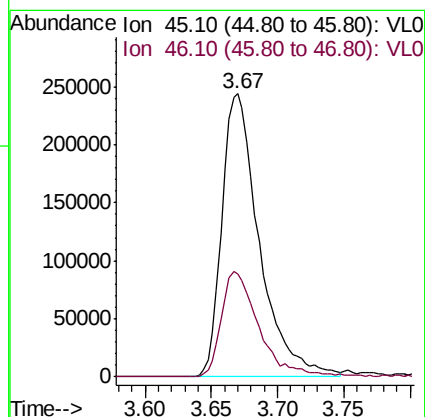
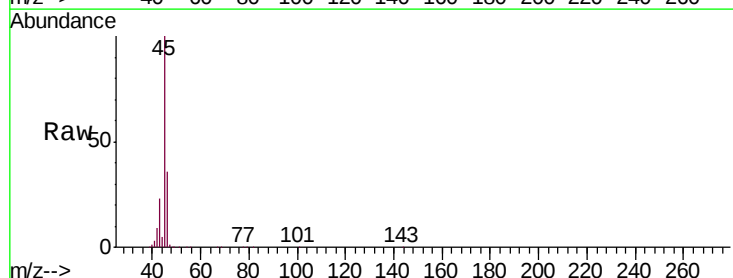
Acq: 28 Sep 2018 3:23

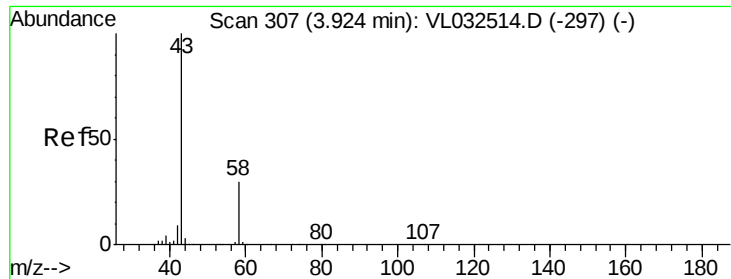
Tgt Ion: 45 Resp: 478273

Ion Ratio Lower Upper

45 100

46 38.0 14.2 56.8





#15

Acetone

Concen: 3.409 ppbv

RT: 3.93 min Scan# 308

Delta R.T. -0.01 min

Lab File: VL032568.D

Acq: 28 Sep 2018 3:23

Instrument :

MSVOA_L

ClientSampleId :

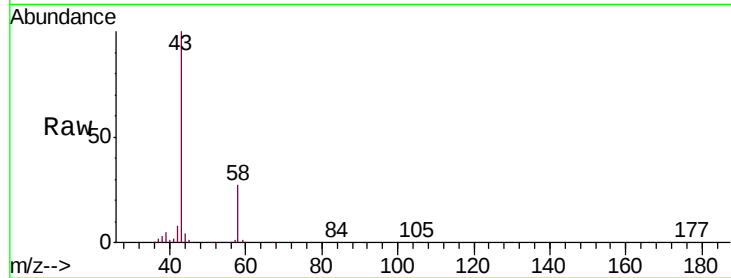
PIA-1DL

Tgt Ion: 43 Resp: 400721

Ion Ratio Lower Upper

43 100

58 28.2 22.6 33.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.93

250000

200000

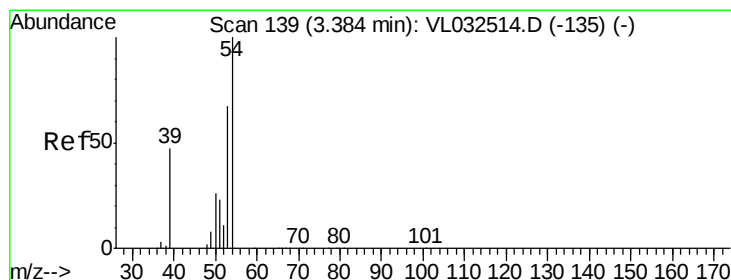
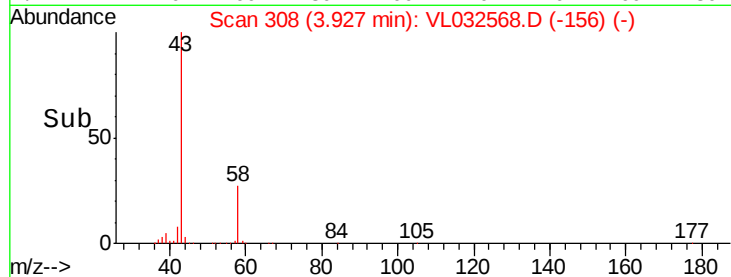
150000

100000

50000

0

Time--> 3.85 3.90 3.95 4.00



#16

1,3-Butadiene

Concen: 0.103 ppbv

RT: 3.36 min Scan# 131

Delta R.T. -0.04 min

Lab File: VL032568.D

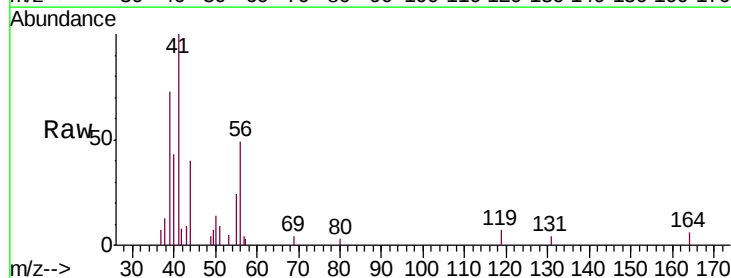
Acq: 28 Sep 2018 3:23

Tgt Ion: 39 Resp: 4886

Ion Ratio Lower Upper

39 100

54 0.0 80.8 121.2#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

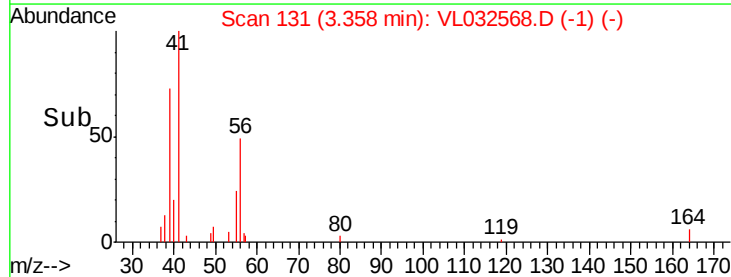
6000

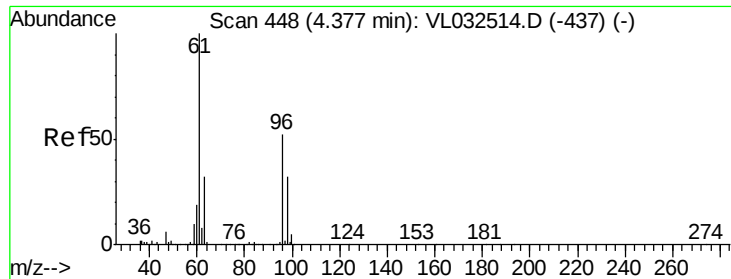
4000

2000

0

Time--> 3.32 3.34 3.36 3.38

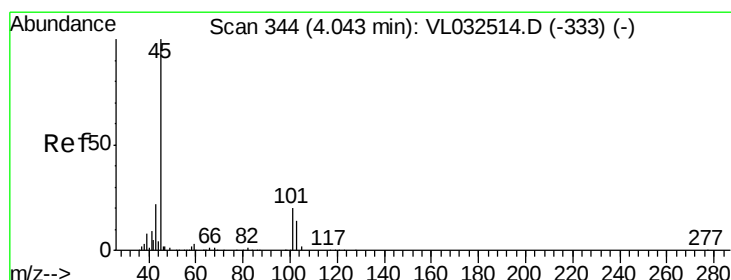
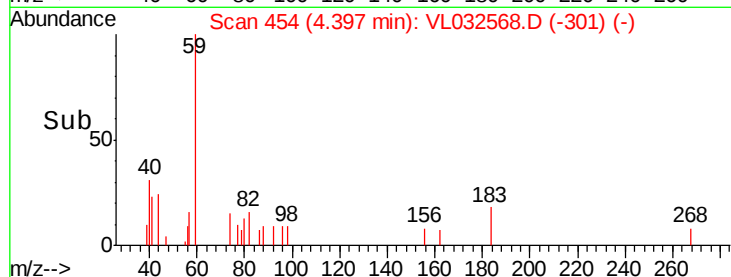
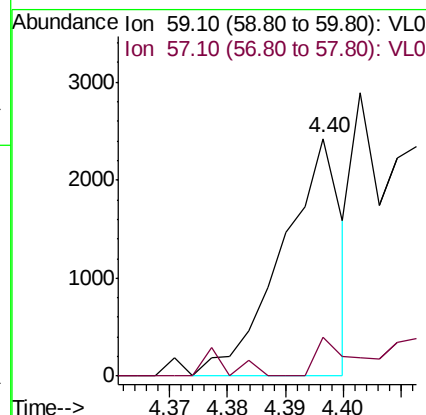
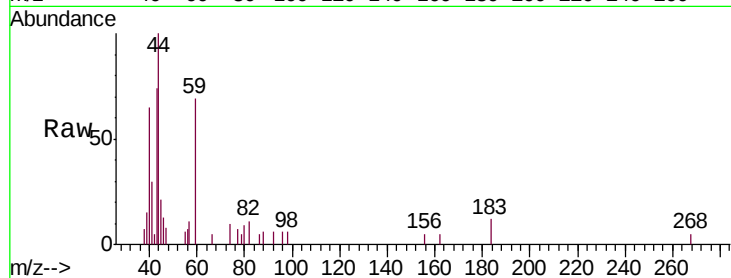




#17
tert-Butyl alcohol
Concen: 0.117 ppbv
RT: 4.40 min Scan# 454
Delta R.T. -0.01 min
Lab File: VL032568.D
Acq: 28 Sep 2018 3:23

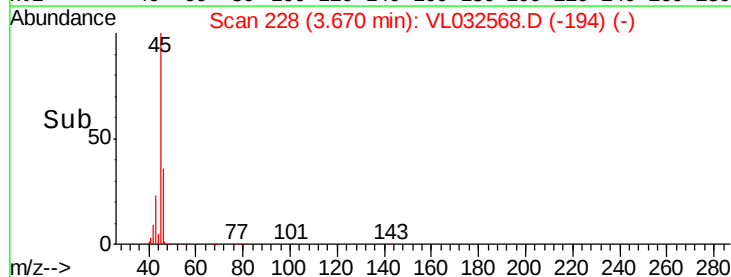
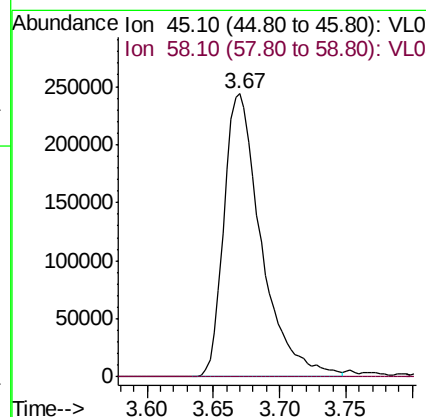
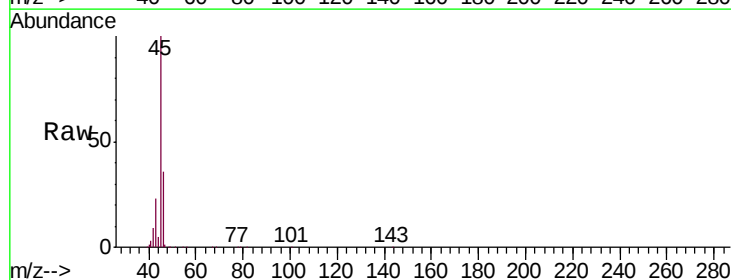
Instrument :
MSVOA_L
ClientSampleId :
PIA-1DL

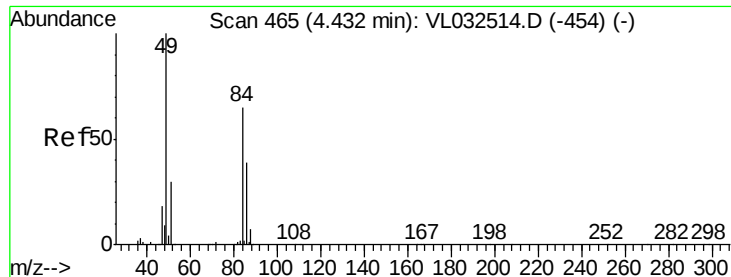
Tgt Ion: 59 Resp: 1731
Ion Ratio Lower Upper
59 100
57 0.0 0.0 0.0



#19
Isopropyl Alcohol
Concen: 5.842 ppbv
RT: 3.67 min Scan# 228
Delta R.T. -0.39 min
Lab File: VL032568.D
Acq: 28 Sep 2018 3:23

Tgt Ion: 45 Resp: 478273
Ion Ratio Lower Upper
45 100
58 0.0 2.0 3.0#





#20

Methylene Chloride

Concen: 0.437 ppbv

RT: 4.44 min Scan# 466

Delta R.T. -0.01 min

Lab File: VL032568.D

Acq: 28 Sep 2018 3:23

Instrument :

MSVOA_L

ClientSampleId :

PIA-1DL

Tgt Ion: 84 Resp: 24902

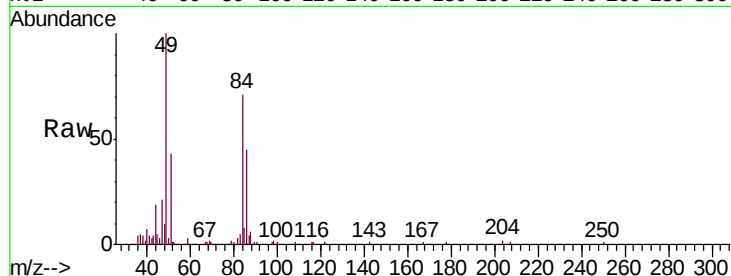
Ion Ratio Lower Upper

84 100

49 137.6 119.1 178.7

51 59.6 35.2 52.8#

86 62.4 49.4 74.2

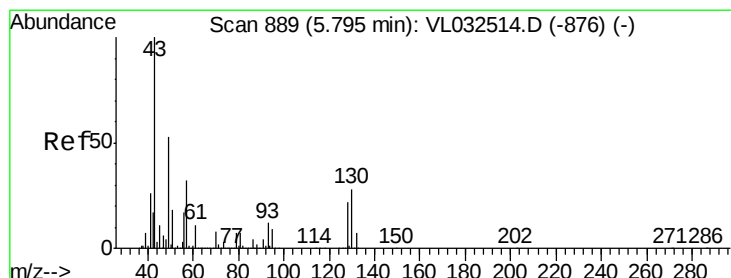
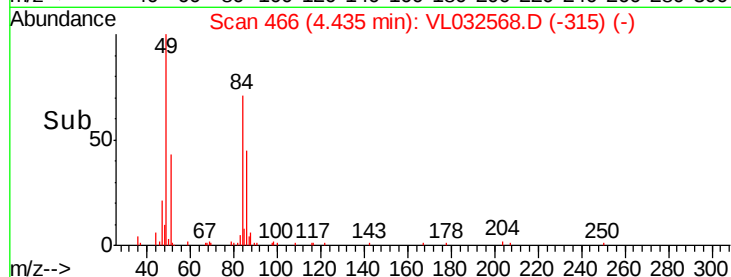
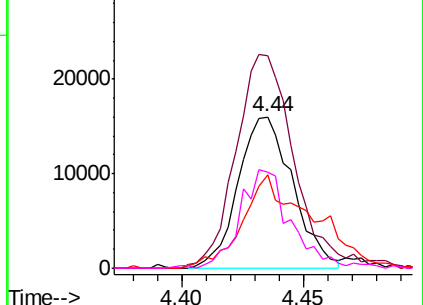


Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#25

Ethyl Acetate

Concen: 0.156 ppbv

RT: 5.80 min Scan# 892

Delta R.T. -0.01 min

Lab File: VL032568.D

Acq: 28 Sep 2018 3:23

Tgt Ion: 43 Resp: 44513

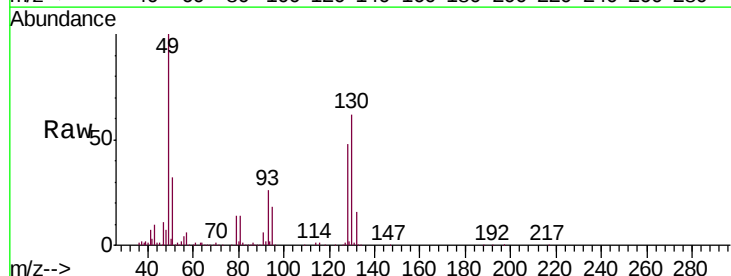
Ion Ratio Lower Upper

43 100

45 10.6 8.0 12.0

61 8.0 7.6 11.4

70 7.4 5.8 8.8

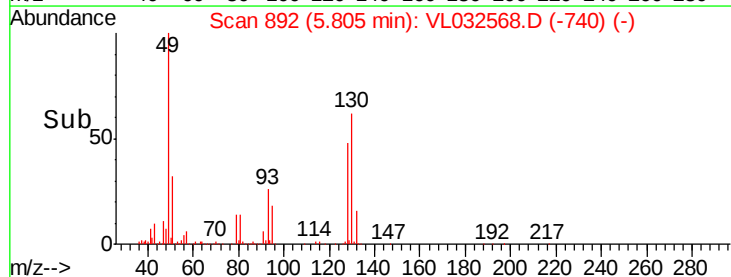
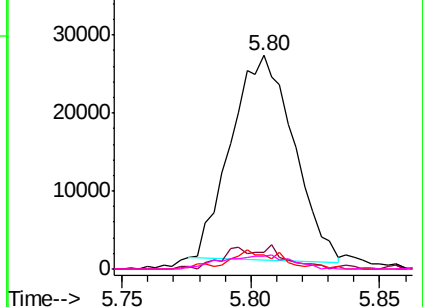


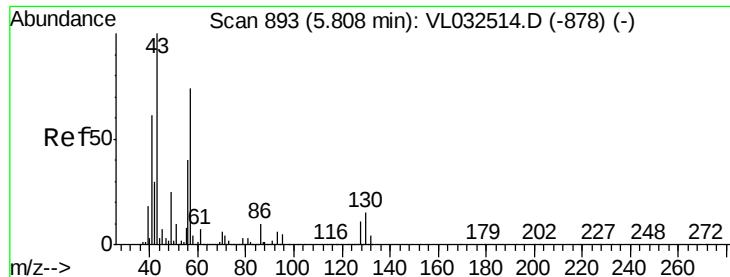
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.134 ppbv

RT: 5.80 min Scan# 892

Delta R.T. -0.02 min

Lab File: VL032568.D

Acq: 28 Sep 2018 3:23

Instrument :

MSVOA_L

ClientSampleId :

PIA-1DL

Tgt Ion: 57 Resp: 17301

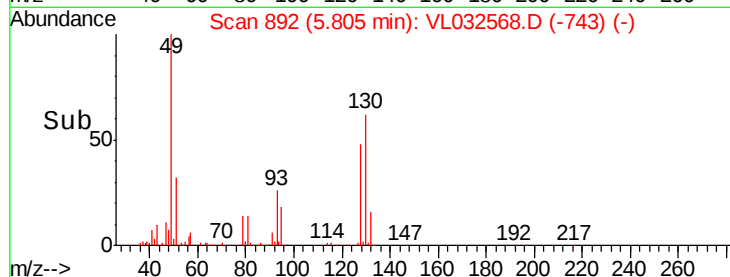
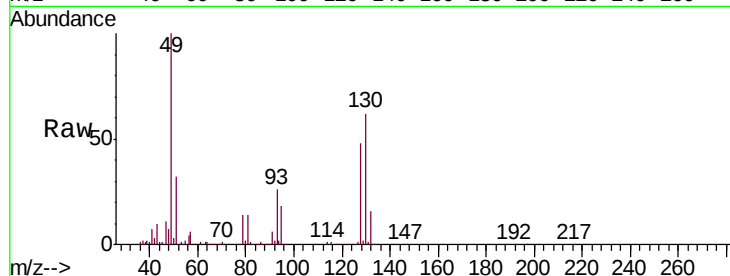
Ion Ratio Lower Upper

57 100

41 188.0 69.0 103.4#

43 295.2 172.1 258.1#

56 120.2 42.2 63.2#

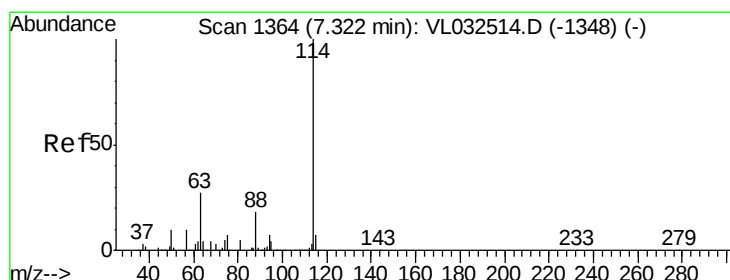
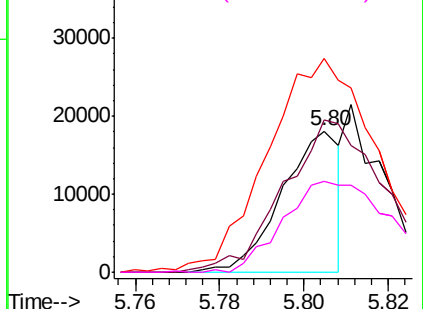


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 7.32 min Scan# 1363

Delta R.T. -0.03 min

Lab File: VL032568.D

Acq: 28 Sep 2018 3:23

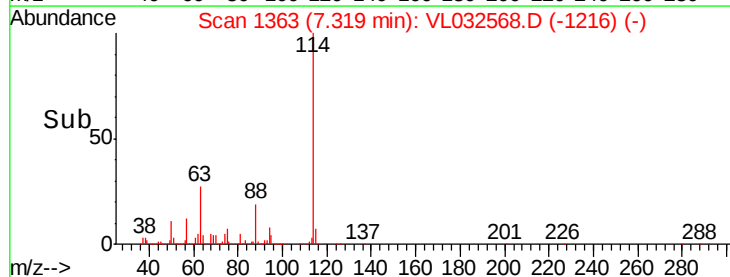
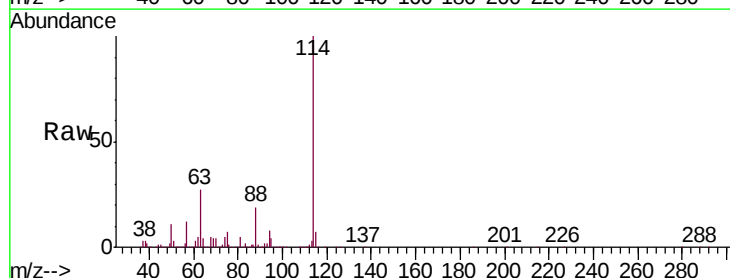
Tgt Ion: 114 Resp: 2944195

Ion Ratio Lower Upper

114 100

63 27.4 22.2 33.4

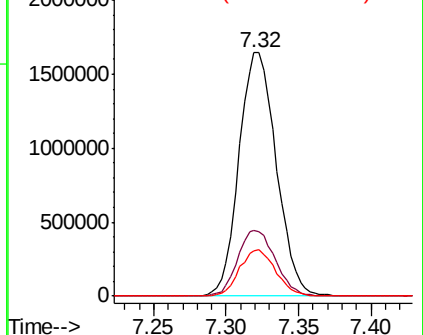
88 18.5 15.0 22.4

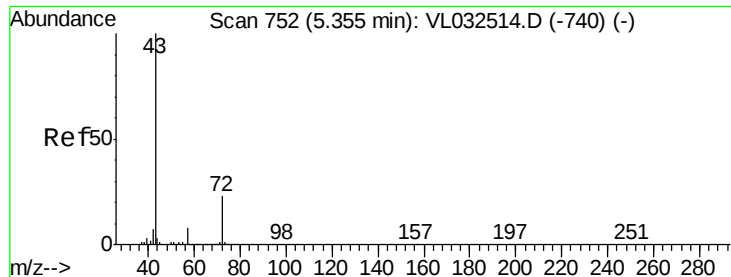


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

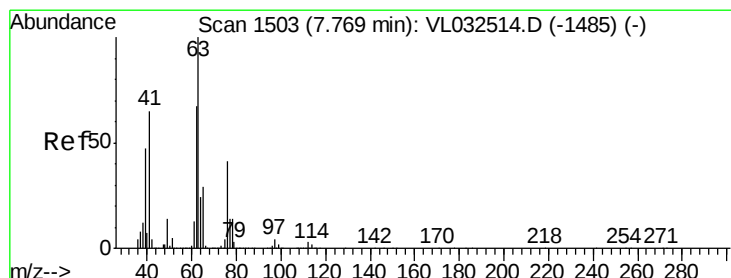
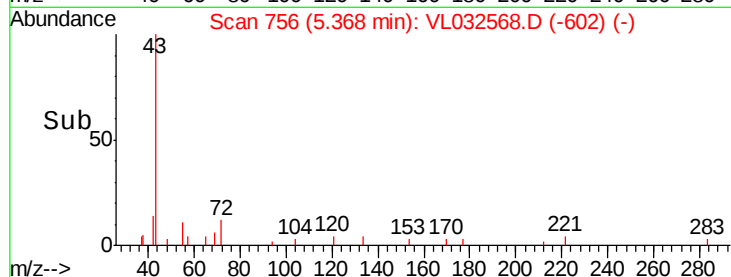
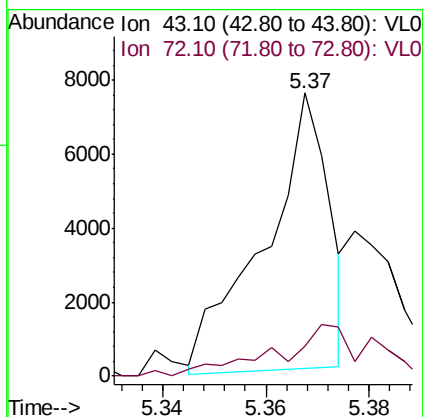
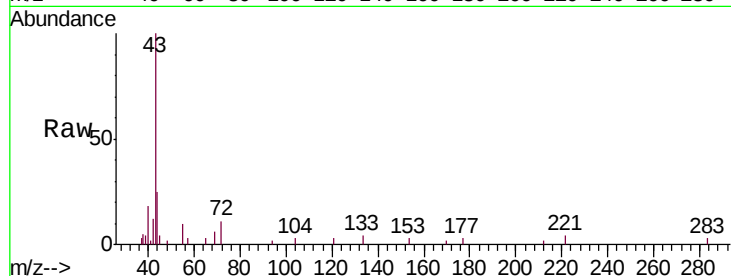




#34
2-Butanone
Concen: 0.037 ppbv
RT: 5.37 min Scan# 756
Delta R.T. -0.01 min
Lab File: VL032568.D
Acq: 28 Sep 2018 3:23

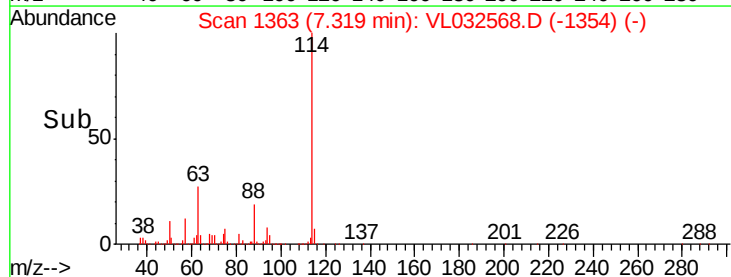
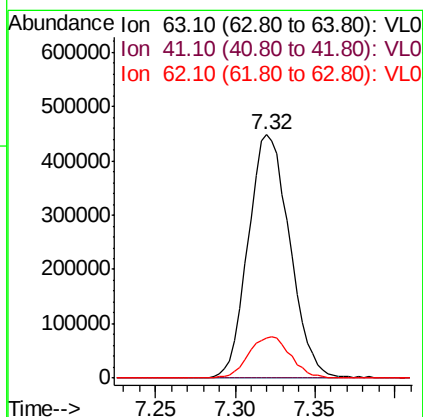
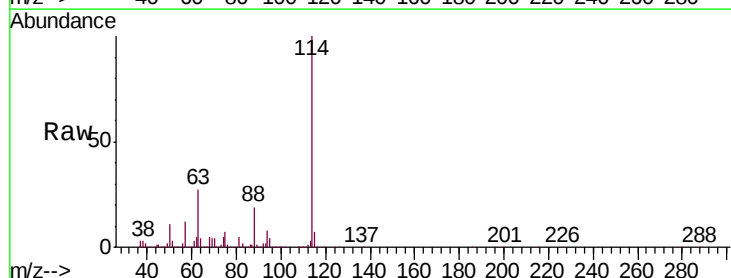
Instrument :
MSVOA_L
ClientSampleId :
PIA-1DL

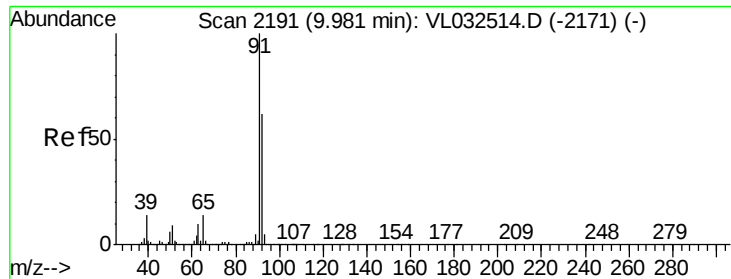
Tgt Ion: 43 Resp: 6477
Ion Ratio Lower Upper
43 100
72 27.2 17.8 26.6#



#39
1,2-Dichloropropane
Concen: 7.471 ppbv
RT: 7.32 min Scan# 1363
Delta R.T. -0.47 min
Lab File: VL032568.D
Acq: 28 Sep 2018 3:23

Tgt Ion: 63 Resp: 801068
Ion Ratio Lower Upper
63 100
41 0.1 55.4 83.0#
62 16.6 55.4 83.0#





#53

Toluene

Concen: 0.069 ppbv

RT: 9.98 min Scan# 2189

Delta R.T. -0.03 min

Lab File: VL032568.D

Acq: 28 Sep 2018 3:23

Instrument :

MSVOA_L

ClientSampleId :

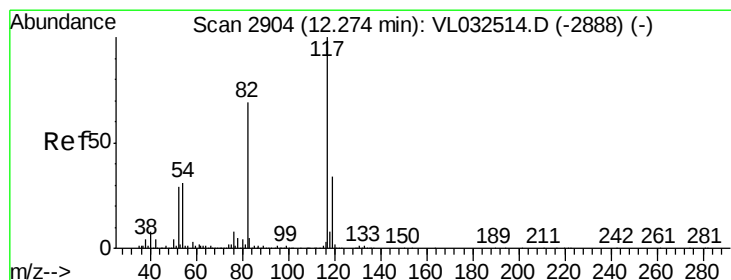
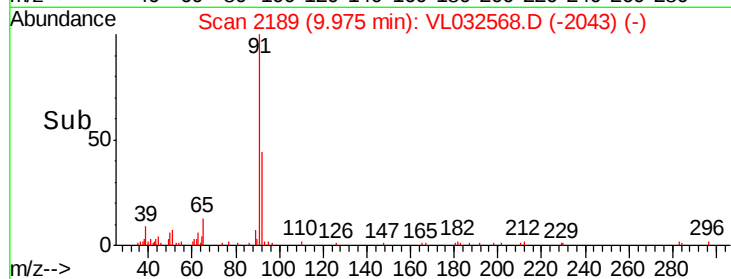
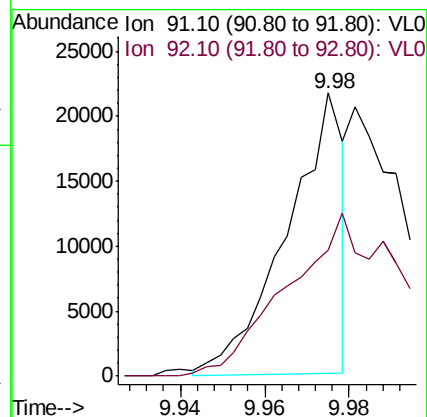
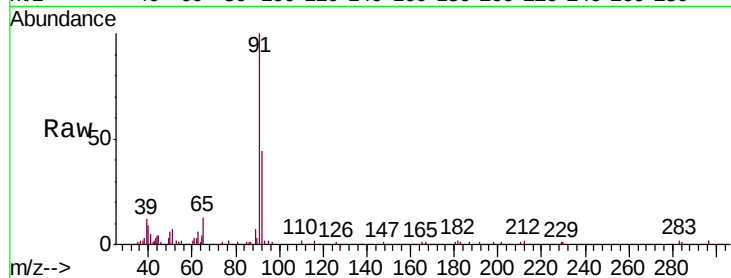
PIA-1DL

Tgt Ion: 91 Resp: 20126

Ion Ratio Lower Upper

91 100

92 0.0 48.1 72.1#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.27 min Scan# 2904

Delta R.T. -0.02 min

Lab File: VL032568.D

Acq: 28 Sep 2018 3:23

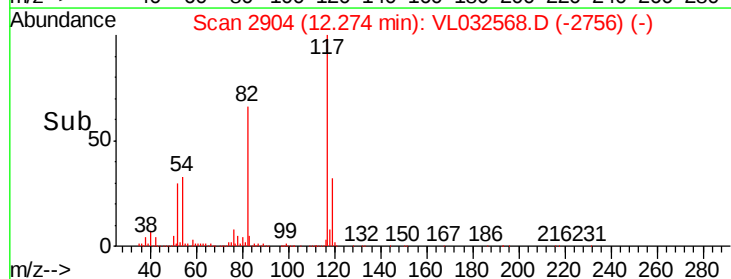
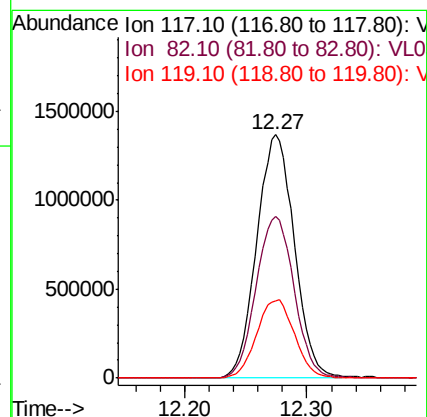
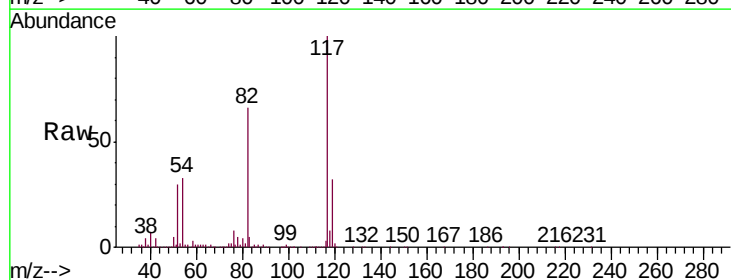
Tgt Ion: 117 Resp: 2918757

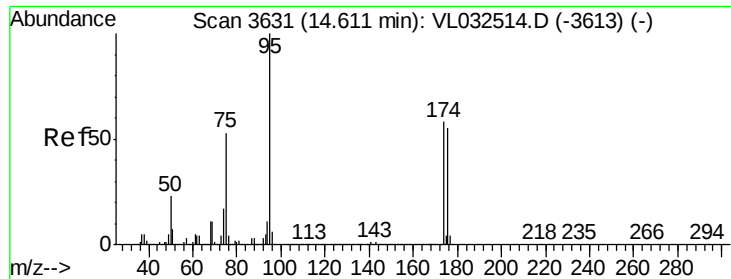
Ion Ratio Lower Upper

117 100

82 67.6 53.0 79.6

119 32.7 45.9 68.9#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.878 ppbv

RT: 14.61 min Scan# 3631

Delta R.T. -0.02 min

Lab File: VL032568.D

Acq: 28 Sep 2018 3:23

Instrument :

MSVOA_L

ClientSampleId :

PIA-1DL

Tgt Ion: 95 Resp: 2174295

Ion Ratio Lower Upper

95 100

174 58.4 46.3 69.5

175 4.0 3.4 5.0

