

Data File : VL032572.D
Acq On : 28 Sep 2018 6:01
Operator : SY/AP
Sample : J5094-05DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
CIA-1DL

Quant Time: Sep 28 06:49:13 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	1293457	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	2833473	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.27	117	2824469	10.00	ppbv	-0.02

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.61 95 2100611 9.86 ppbv -0.02
Spiked Amount 10.000 Range 65 - 135 Recovery = 98.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.10	85	9861	0.082	ppbv	94
3) Chlorodifluoromethane	3.03	51	84536	0.786	ppbv	99
9) Propene	3.07	41	18793	0.403	ppbv #	73
13) Ethanol	3.68	45	163228	11.636	ppbv	98
15) Acetone	3.93	43	91297	0.804	ppbv	95
16) 1,3-Butadiene	3.36	39	4313	0.094	ppbv #	13
17) tert-Butyl alcohol	4.40	59	1064	0.075	ppbv #	100
20) Methylene Chloride	4.44	84	22257	0.405	ppbv #	87
26) Hexane	5.80	57	19962	0.160	ppbv #	49
34) 2-Butanone	5.37	43	5873	0.035	ppbv #	54
39) 1,2-Dichloropropane	7.32	63	778215	7.541	ppbv #	24
53) Toluene	9.98	91	15895	0.057	ppbv #	77

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

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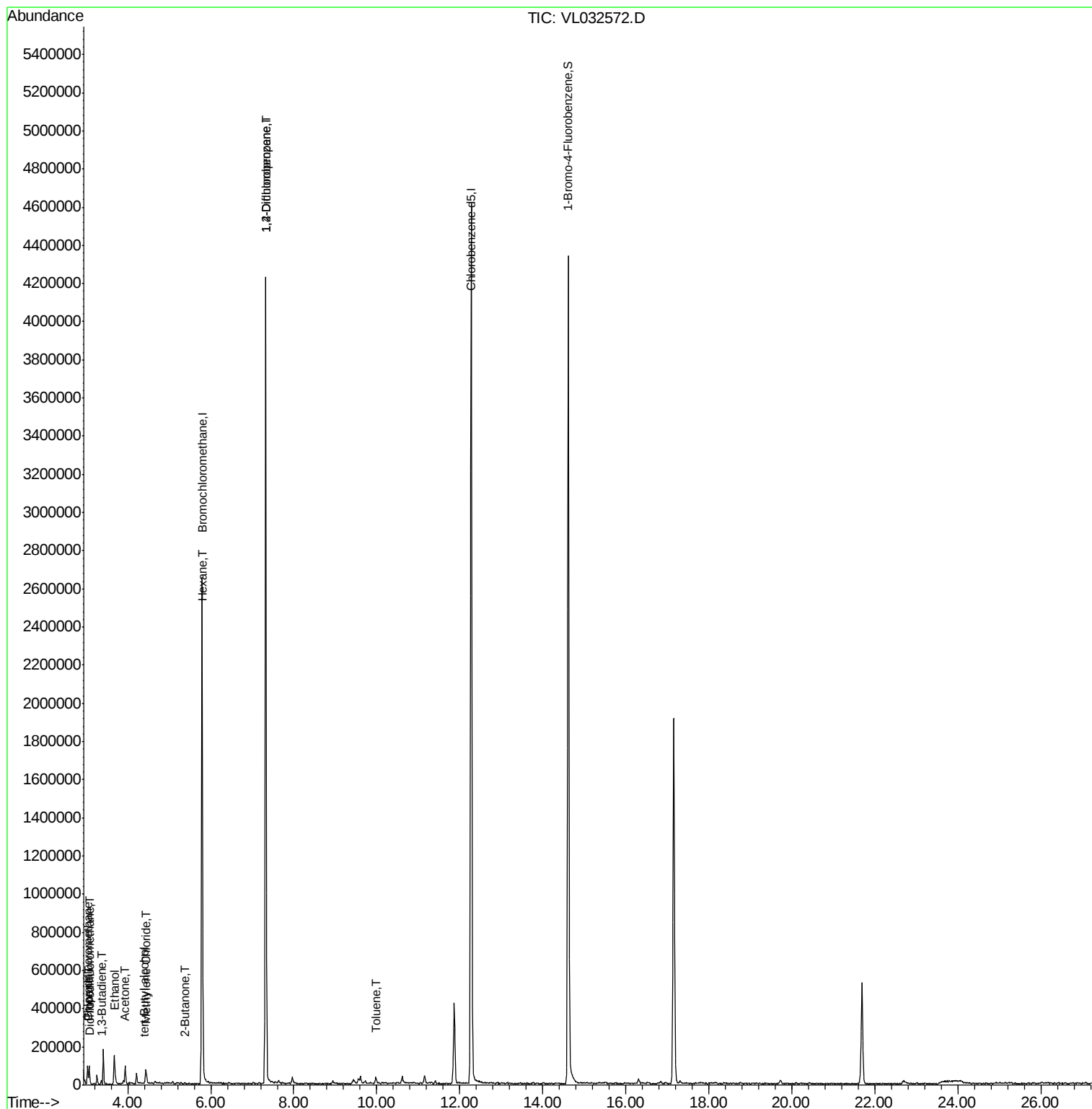
Quant Time: Sep 28 06:49:13 2018

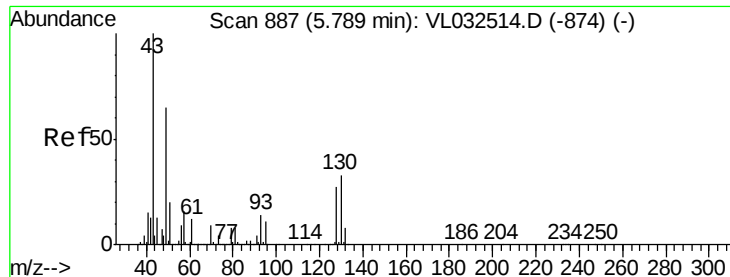
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL092418AIR.M

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.79 min Scan# 887

Delta R.T. -0.02 min

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Instrument :

MSVOA_L

ClientSampleId :

CIA-1DL

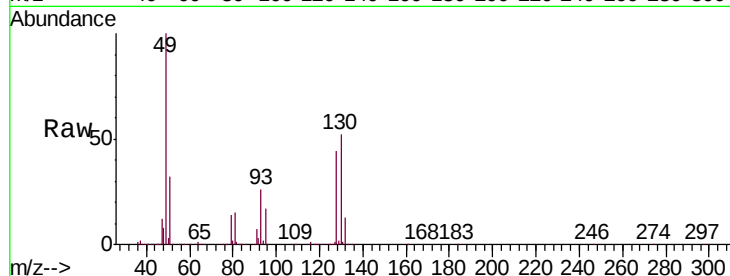
Tgt Ion: 49 Resp: 1293457

Ion Ratio Lower Upper

49 100

128 44.4 20.7 62.1

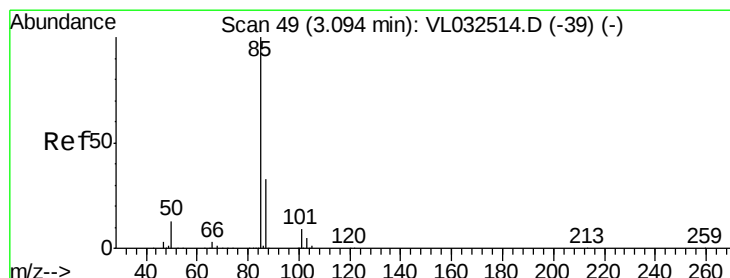
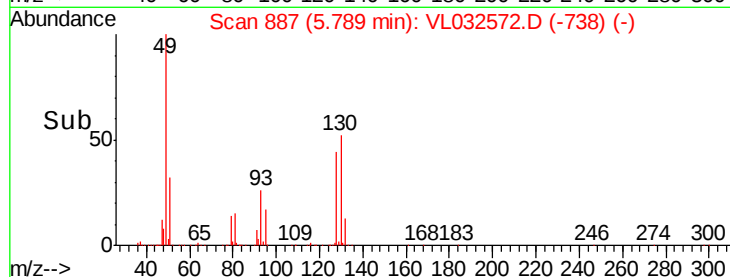
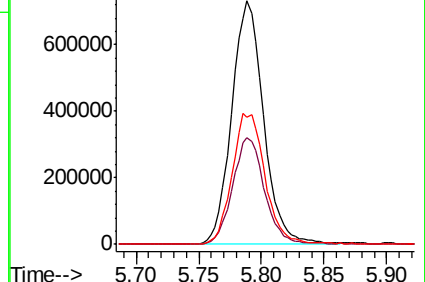
130 55.9 26.6 79.7



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



#2

Dichlorodifluoromethane

Concen: 0.082 ppbv

RT: 3.10 min Scan# 50

Delta R.T. -0.01 min

Lab File: VL032572.D

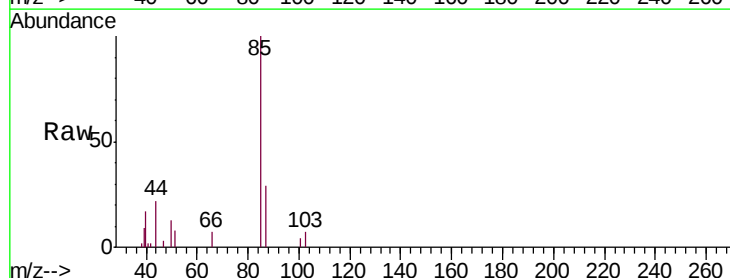
Acq: 28 Sep 2018 6:01

Tgt Ion: 85 Resp: 9861

Ion Ratio Lower Upper

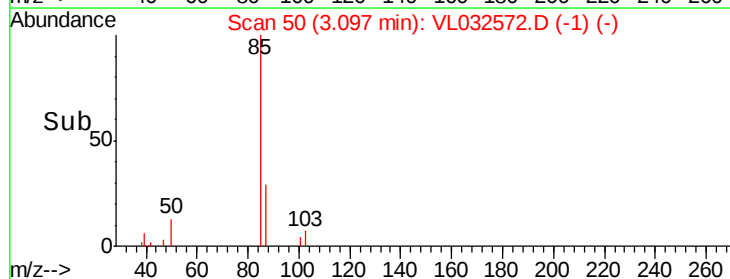
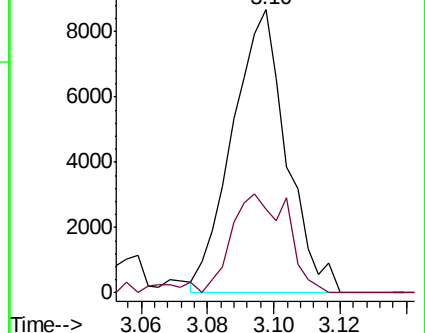
85 100

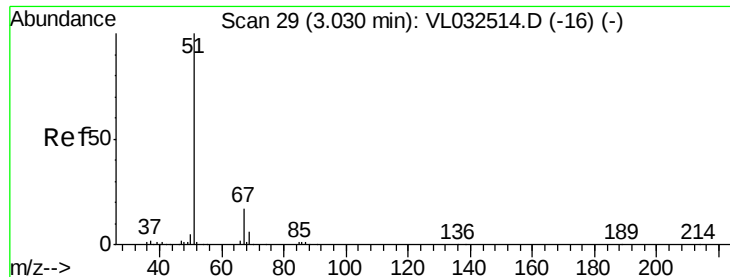
87 29.4 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.786 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.01 min

Lab File: VL032572.D

Acq: 28 Sep 2018 6:01

Instrument :

MSVOA_L

ClientSampleId :

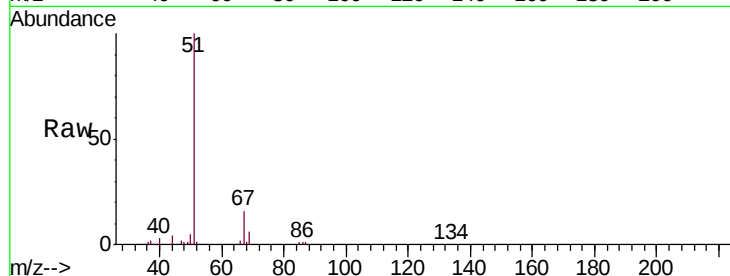
CIA-1DL

Tgt Ion: 51 Resp: 84536

Ion Ratio Lower Upper

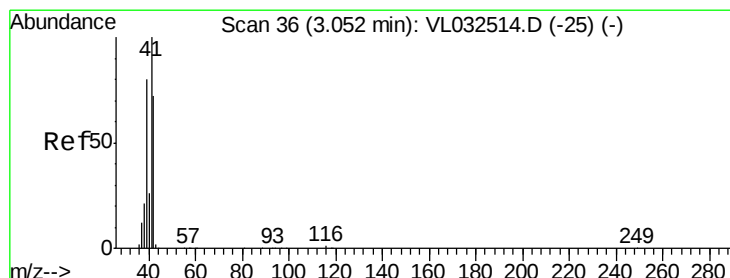
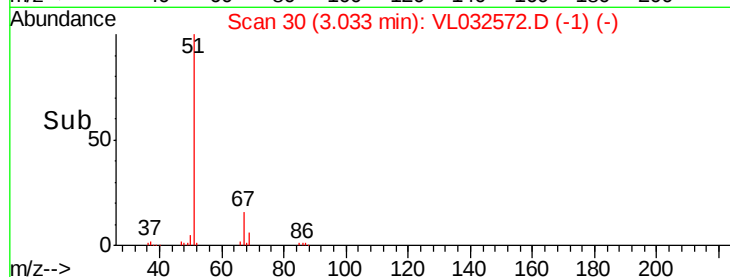
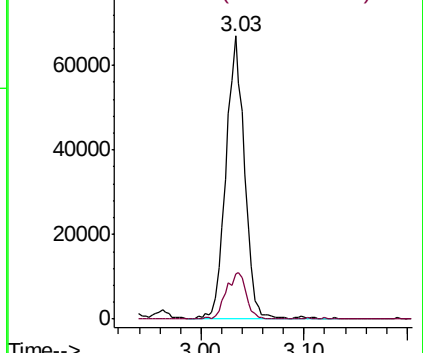
51 100

67 17.8 13.8 20.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.403 ppbv

RT: 3.07 min Scan# 41

Delta R.T. 0.00 min

Lab File: VL032572.D

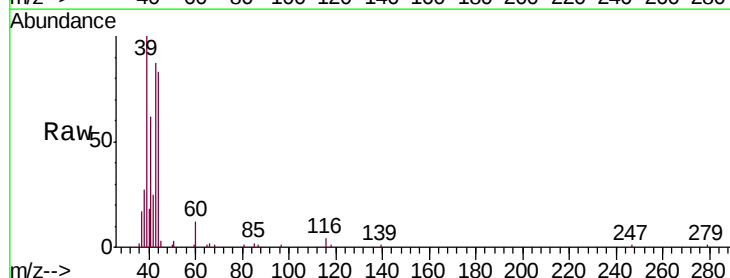
Acq: 28 Sep 2018 6:01

Tgt Ion: 41 Resp: 18793

Ion Ratio Lower Upper

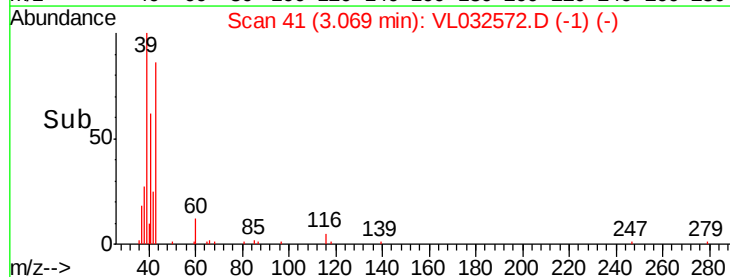
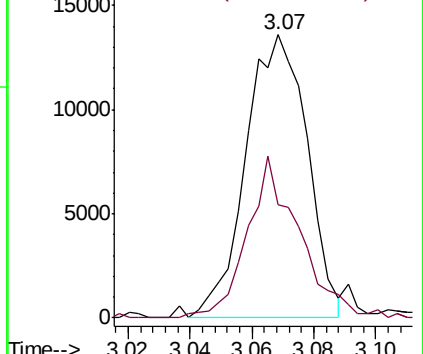
41 100

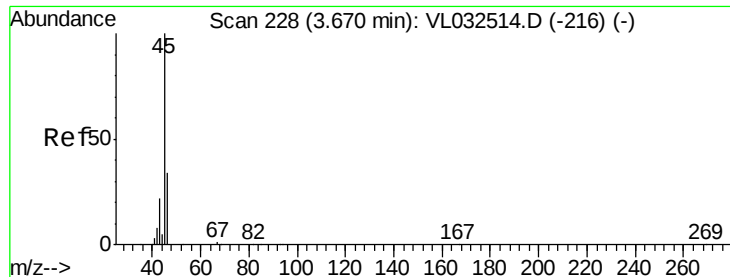
42 48.3 56.6 84.8#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 11.636 ppbv

RT: 3.68 min Scan# 230

Delta R.T. -0.01 min

Lab File: VL032572.D

Acq: 28 Sep 2018 6:01

Instrument :

MSVOA_L

ClientSampleId :

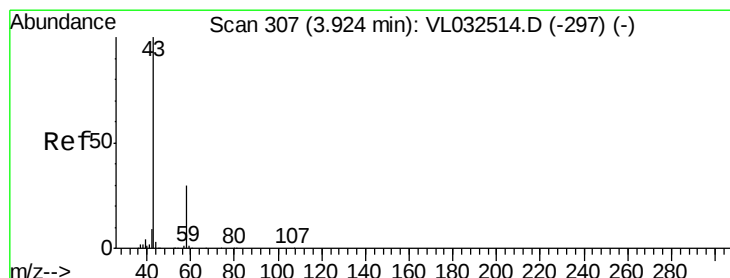
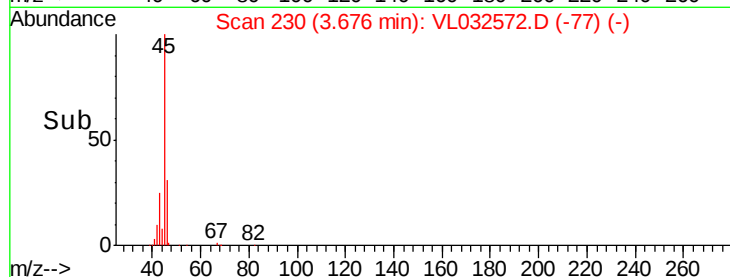
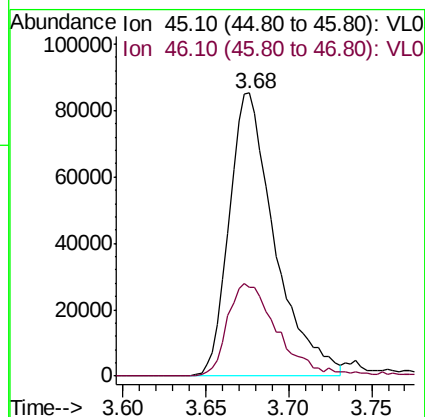
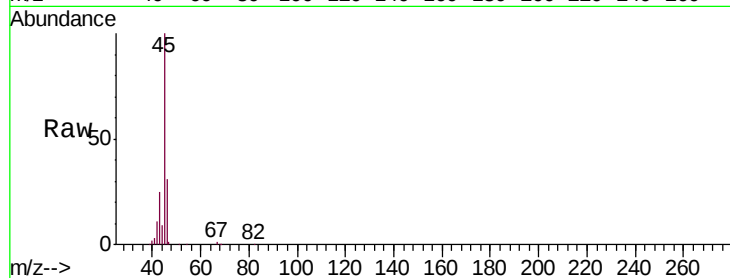
CIA-1DL

Tgt Ion: 45 Resp: 163228

Ion Ratio Lower Upper

45 100

46 36.7 14.2 56.8



#15

Acetone

Concen: 0.804 ppbv

RT: 3.93 min Scan# 310

Delta R.T. -0.01 min

Lab File: VL032572.D

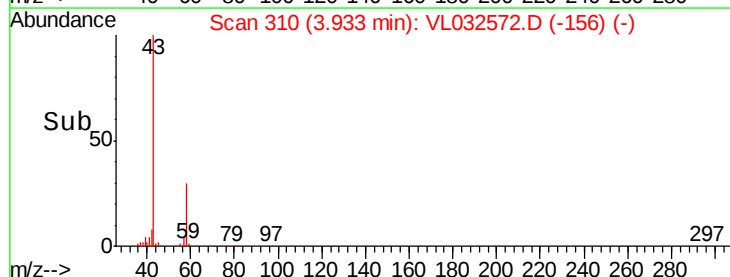
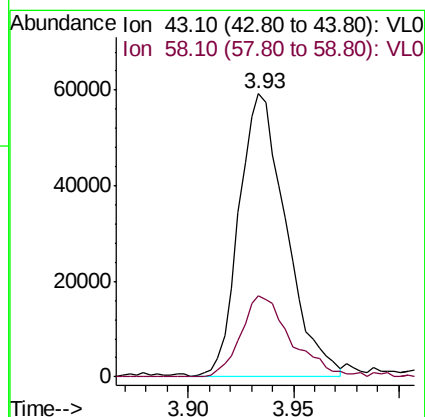
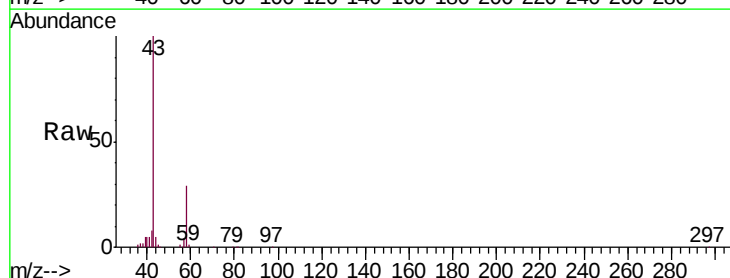
Acq: 28 Sep 2018 6:01

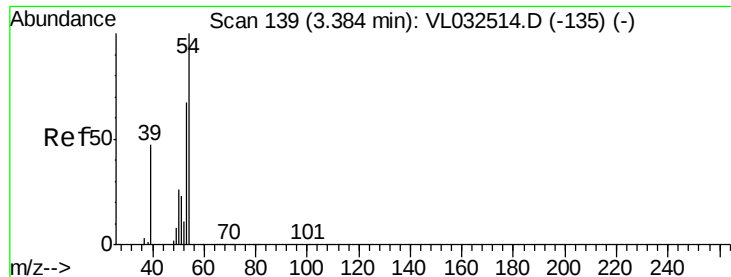
Tgt Ion: 43 Resp: 91297

Ion Ratio Lower Upper

43 100

58 31.0 22.6 33.8





#16

1,3-Butadiene

Concen: 0.094 ppbv

RT: 3.36 min Scan# 133

Delta R.T. -0.03 min

Lab File: VL032572.D

Acq: 28 Sep 2018 6:01

Instrument :

MSVOA_L

ClientSampleId :

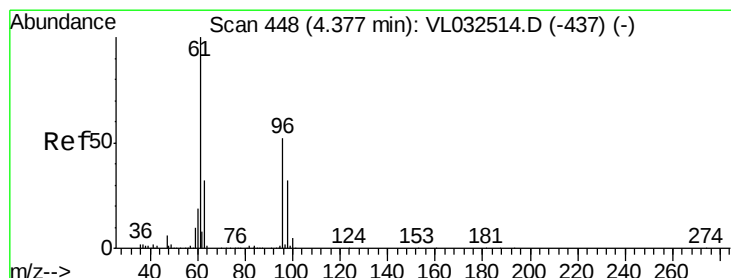
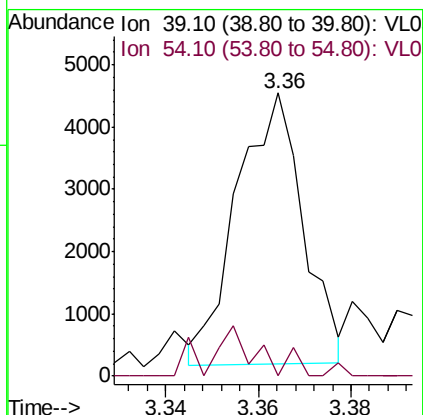
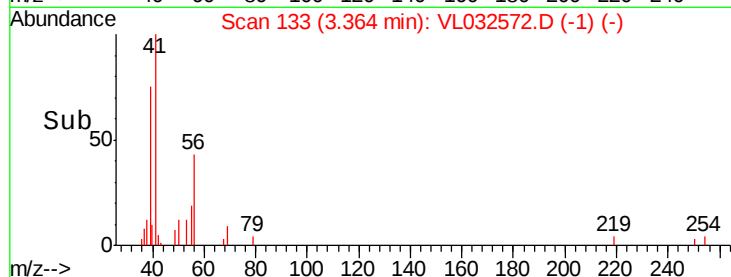
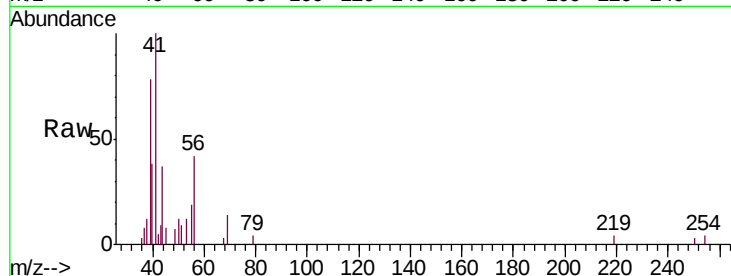
CIA-1DL

Tgt Ion: 39 Resp: 4313

Ion Ratio Lower Upper

39 100

54 13.6 80.8 121.2#



#17

tert-Butyl alcohol

Concen: 0.075 ppbv

RT: 4.40 min Scan# 454

Delta R.T. -0.01 min

Lab File: VL032572.D

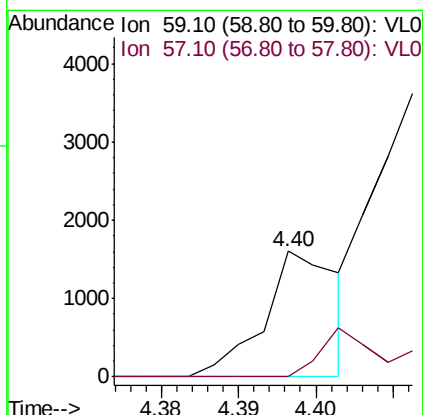
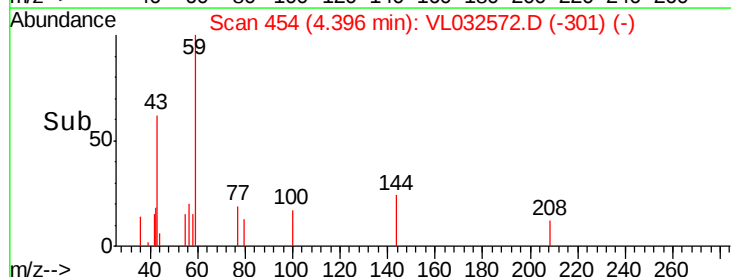
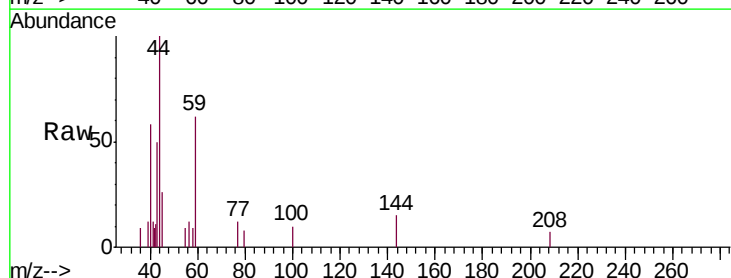
Acq: 28 Sep 2018 6:01

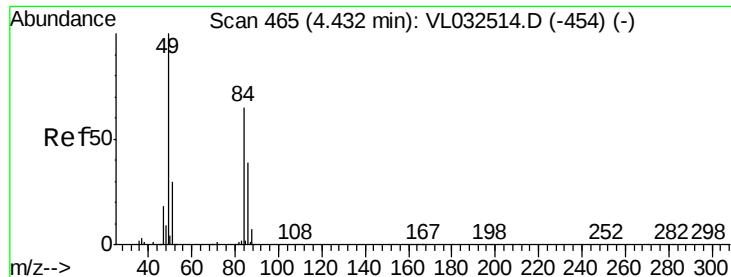
Tgt Ion: 59 Resp: 1064

Ion Ratio Lower Upper

59 100

57 91.6 0.0 0.0#

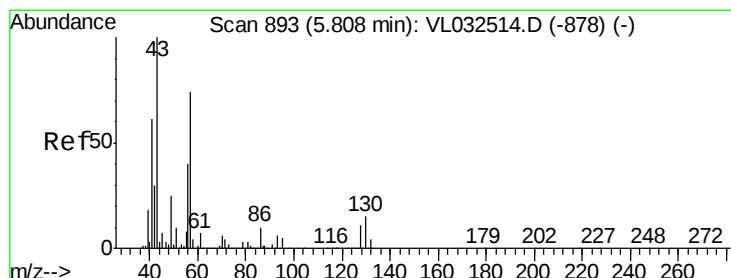
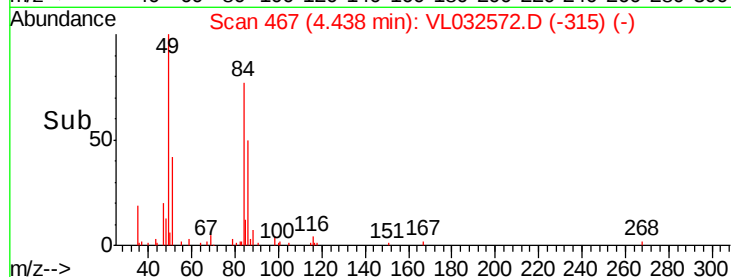
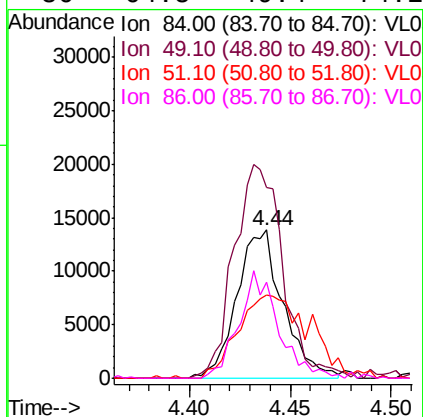
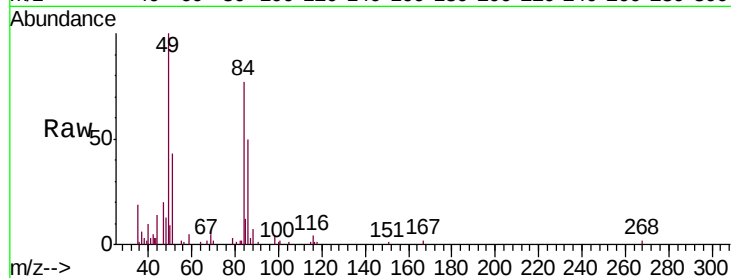




#20
Methylene Chloride
Concen: 0.405 ppbv
RT: 4.44 min Scan# 467
Delta R.T. -0.01 min
Lab File: VL032572.D
Acq: 28 Sep 2018 6:01

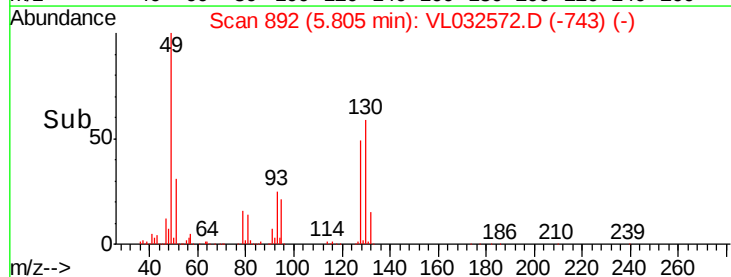
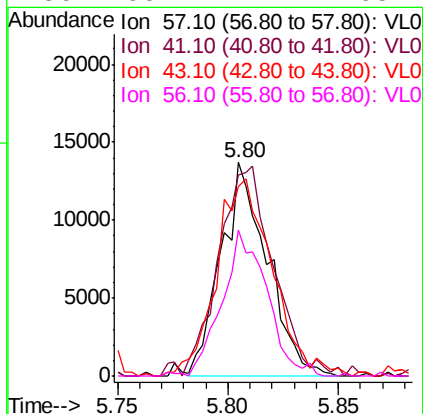
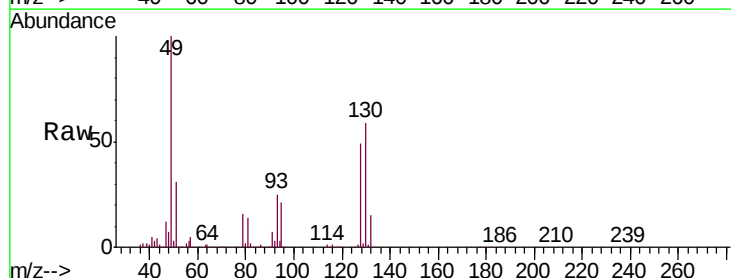
Instrument :
MSVOA_L
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CIA-1DL

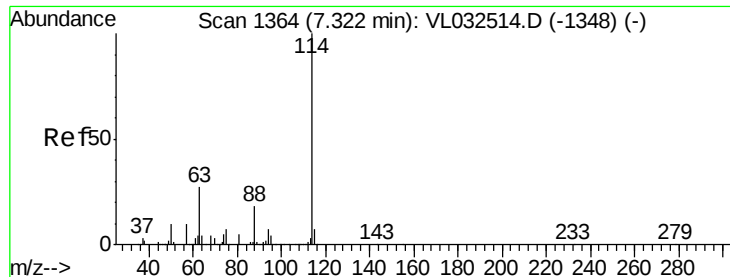
Tgt Ion: 84 Resp: 22257
Ion Ratio Lower Upper
84 100
49 129.0 119.1 178.7
51 55.9 35.2 52.8#
86 64.5 49.4 74.2



#26
Hexane
Concen: 0.160 ppbv
RT: 5.80 min Scan# 892
Delta R.T. -0.02 min
Lab File: VL032572.D
Acq: 28 Sep 2018 6:01

Tgt Ion: 57 Resp: 19962
Ion Ratio Lower Upper
57 100
41 118.5 69.0 103.4#
43 111.5 172.1 258.1#
56 66.7 42.2 63.2#

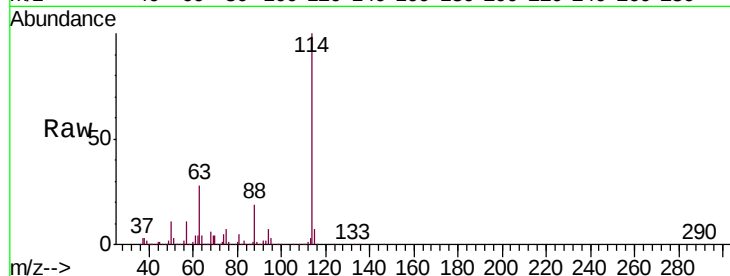




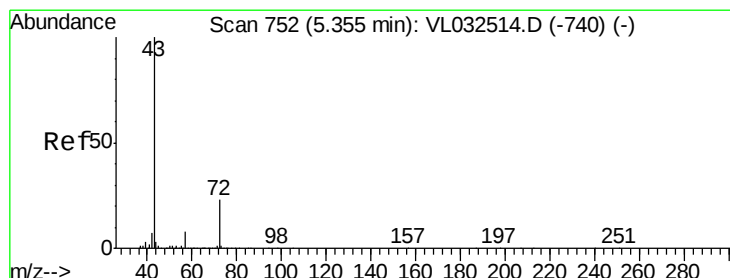
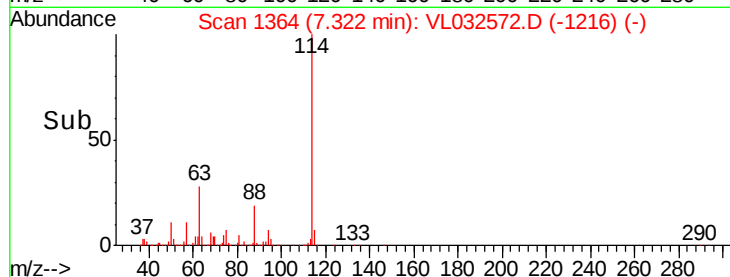
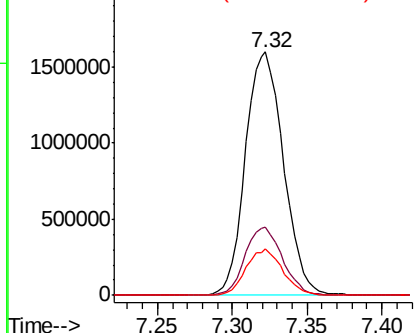
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.32 min Scan# 1364
 Delta R.T. -0.02 min
 Lab File: VL032572.D
 Acq: 28 Sep 2018 6:01

Instrument :
 MSVOA_L
 ClientSampleId :
 CIA-1DL

Tgt Ion:114 Resp: 2833473
 Ion Ratio Lower Upper
 114 100
 63 27.6 22.2 33.4
 88 18.5 15.0 22.4

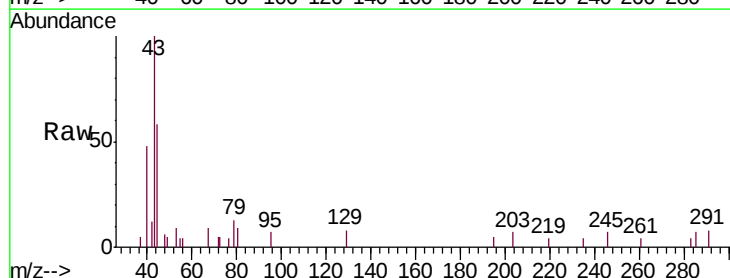


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

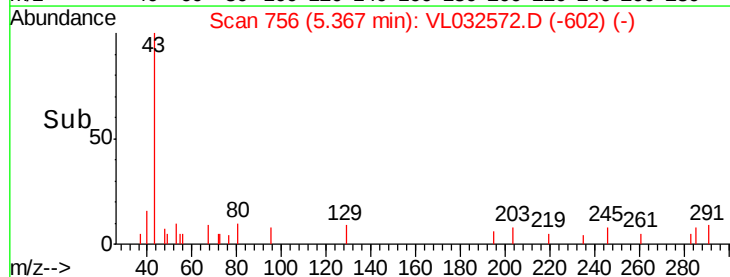
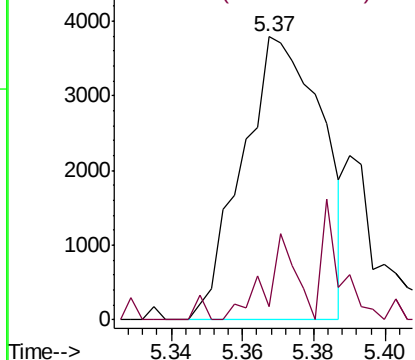


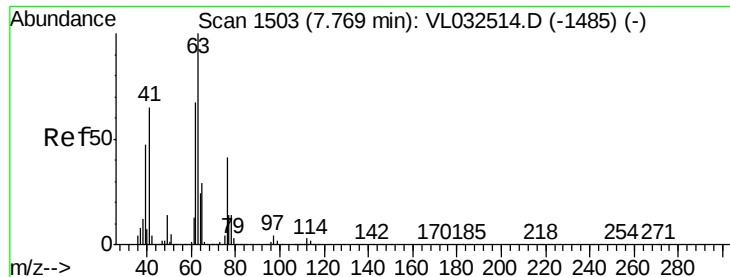
#34
 2-Butanone
 Concen: 0.035 ppbv
 RT: 5.37 min Scan# 756
 Delta R.T. -0.01 min
 Lab File: VL032572.D
 Acq: 28 Sep 2018 6:01

Tgt Ion: 43 Resp: 5873
 Ion Ratio Lower Upper
 43 100
 72 0.0 17.8 26.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0

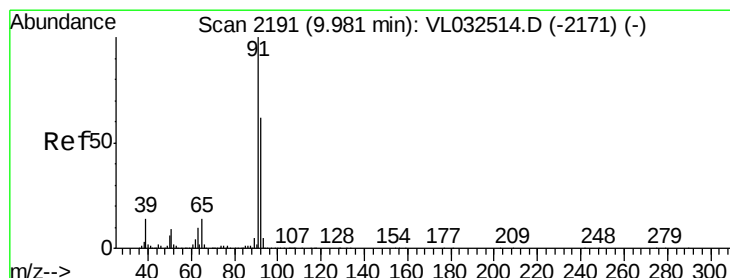
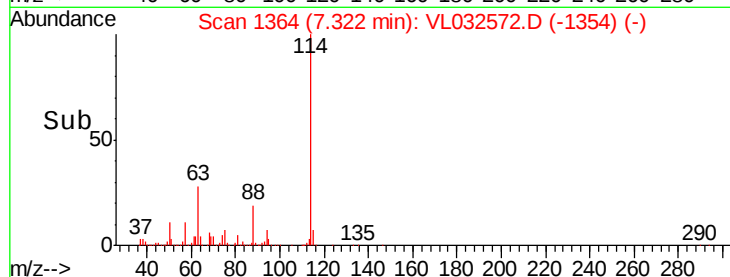
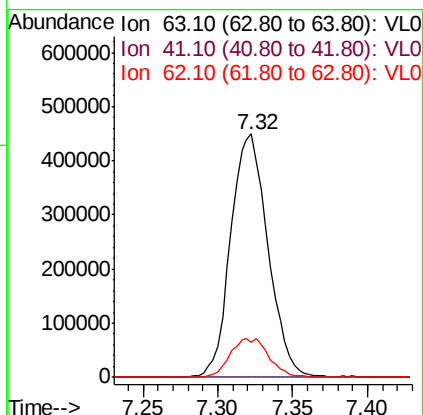
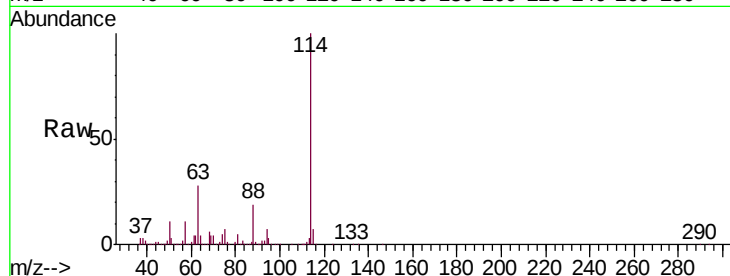




#39
 1,2-Dichloropropane
 Concen: 7.541 ppbv
 RT: 7.32 min Scan# 1364
 Delta R.T. -0.47 min
 Lab File: VL032572.D
 Acq: 28 Sep 2018 6:01

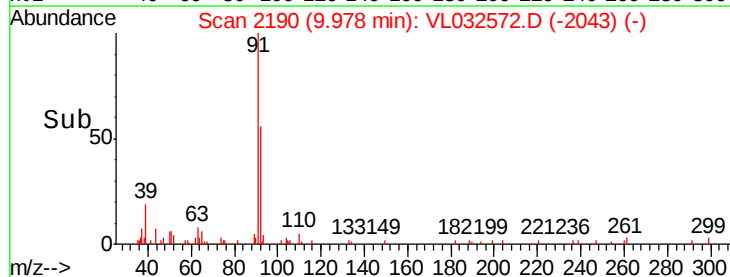
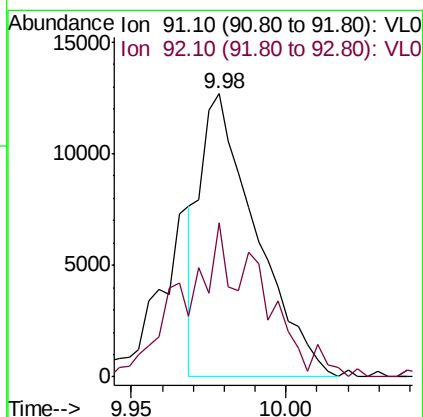
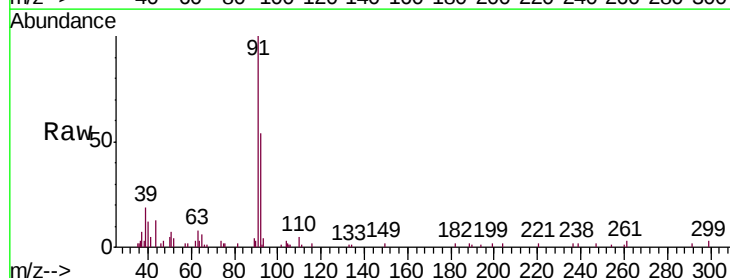
Instrument :
 MSVOA_L
 ClientSampleId :
 CIA-1DL

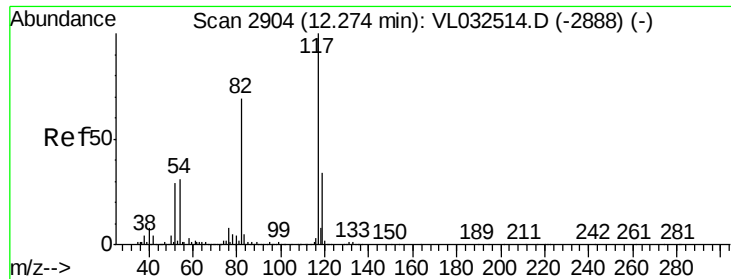
Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.1	55.4	83.0#
62	14.2	55.4	83.0#



#53
 Toluene
 Concen: 0.057 ppbv
 RT: 9.98 min Scan# 2190
 Delta R.T. -0.03 min
 Lab File: VL032572.D
 Acq: 28 Sep 2018 6:01

Tgt Ion	Ratio	Lower	Upper
91	100		
92	77.5	48.1	72.1#

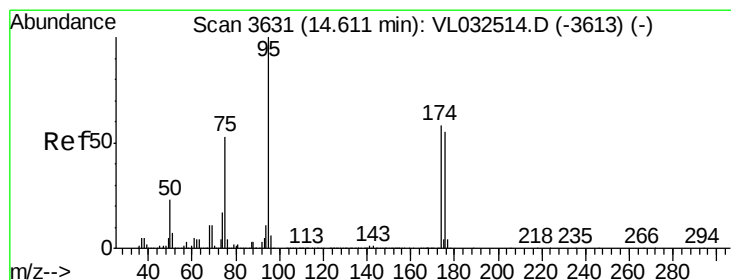
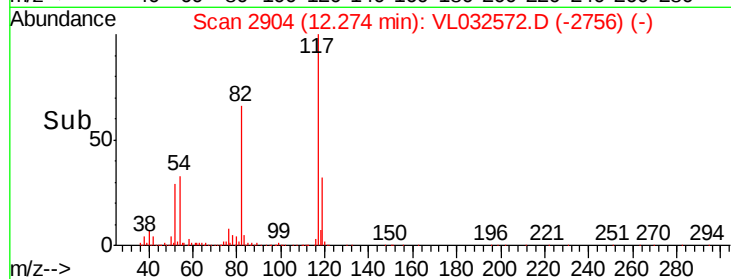
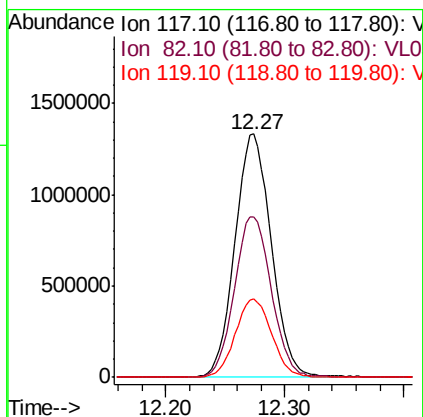
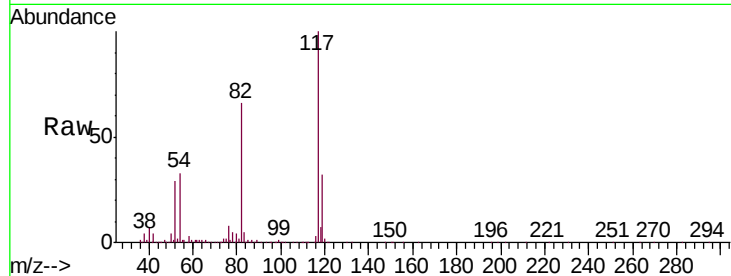




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.27 min Scan# 2904
Delta R.T. -0.02 min
Lab File: VL032572.D
Acq: 28 Sep 2018 6:01

Instrument :
MSVOA_L
ClientSampleId :
CIA-1DL

Tgt Ion: 117 Resp: 2824469
Ion Ratio Lower Upper
117 100
82 67.6 53.0 79.6
119 32.4 45.9 68.9#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.862 ppbv
RT: 14.61 min Scan# 3631
Delta R.T. -0.02 min
Lab File: VL032572.D
Acq: 28 Sep 2018 6:01

Tgt Ion: 95 Resp: 2100611
Ion Ratio Lower Upper
95 100
174 59.3 46.3 69.5
175 4.2 3.4 5.0

