

Data File : VL032834.D
Acq On : 29 Nov 2018 14:42
Operator : SY/AP
Sample : J6046-07DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
EP2-SV-02DL

Quant Time: Nov 30 06:23:31 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:00:23 2018
QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1409245	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3505592	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3354928	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2547118	10.15	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.50%

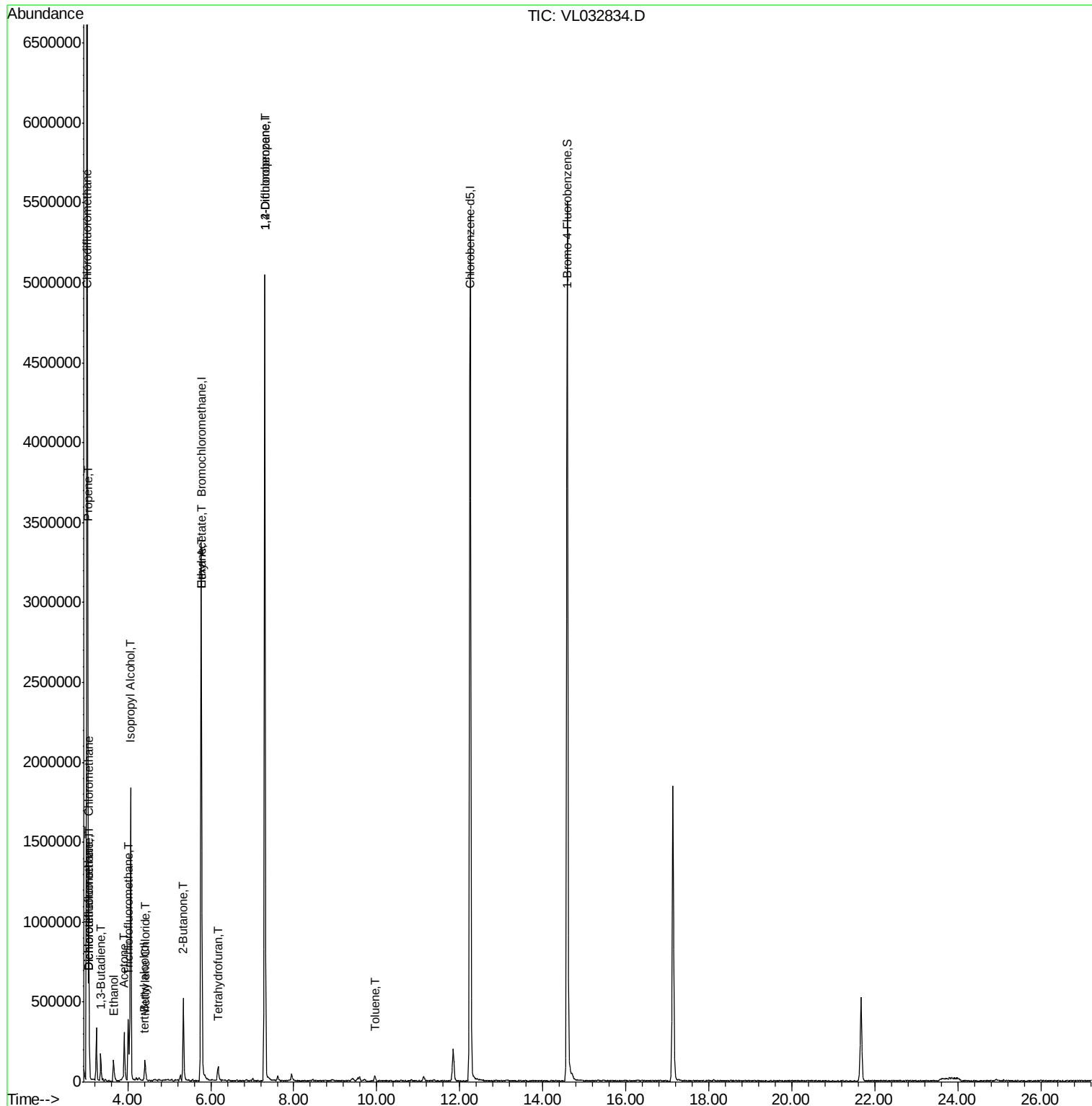
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	19717	0.097	ppbv	100
3) Chlorodifluoromethane	3.02	51	8504439	76.119	ppbv	98
4) Chloromethane	3.06	50	8571	0.138	ppbv #	82
8) Dichlorotetrafluoroethane	3.08	85	19717	0.124	ppbv #	18
9) Propene	3.04	41	48745	1.090	ppbv	100
11) Trichlorofluoromethane	4.01	101	251203	1.316	ppbv	94
13) Ethanol	3.66	45	131705	8.993	ppbv	98
15) Acetone	3.91	43	279304	2.170	ppbv #	76
16) 1,3-Butadiene	3.35	39	40630	0.815	ppbv #	15
17) tert-Butyl alcohol	4.38	59	1913	0.047	ppbv #	73
19) Isopropyl Alcohol	4.07	45	445228	5.193	ppbv	99
20) Methylene Chloride	4.42	84	39607	0.594	ppbv	91
25) Ethyl Acetate	5.79	43	83103	0.277	ppbv #	81
26) Hexane	5.79	57	114060	0.854	ppbv #	40
34) 2-Butanone	5.34	43	533433	2.934	ppbv	100
39) 1,2-Dichloropropane	7.30	63	876646	8.242	ppbv #	23
41) Tetrahydrofuran	6.17	42	41259	0.396	ppbv	98
53) Toluene	9.96	91	12873	0.044	ppbv #	33

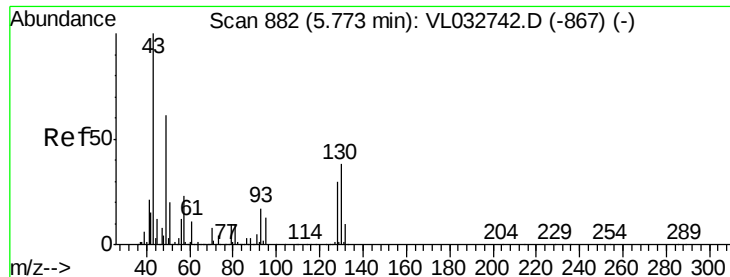
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 881

Delta R.T. -0.00 min

Lab File: VL032834.D

Acq: 29 Nov 2018 14:42

Instrument :

MSVOA_L

ClientSampleId :

EP2-SV-02DL

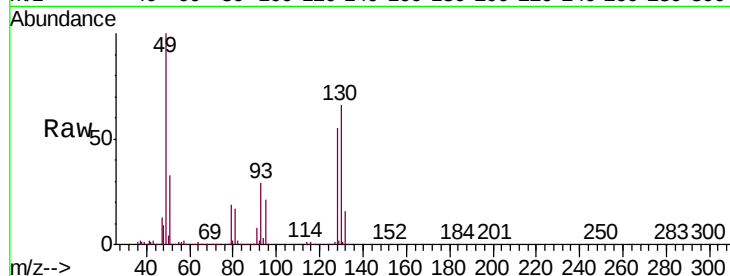
Tgt Ion: 49 Resp: 1409245

Ion Ratio Lower Upper

49 100

128 52.2 24.9 74.6

130 67.2 31.4 94.2



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

1000000

800000

600000

400000

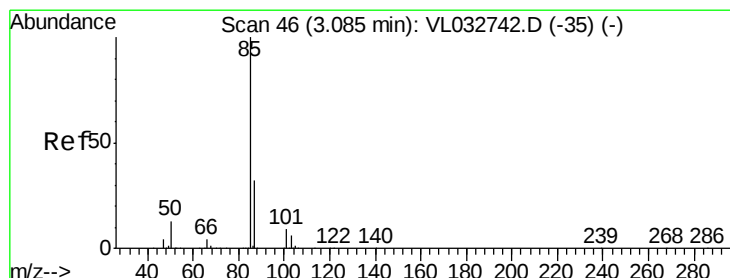
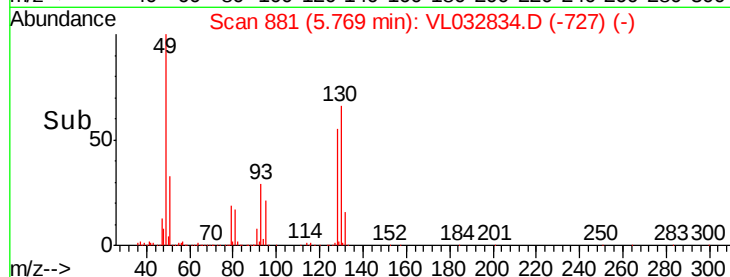
200000

0

5.77

5.70 5.75 5.80 5.85

Time-->



#2

Dichlorodifluoromethane

Concen: 0.097 ppbv

RT: 3.08 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL032834.D

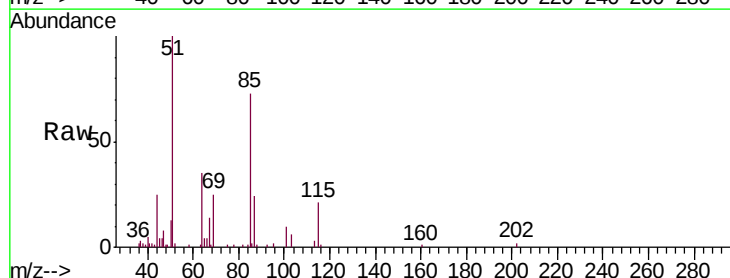
Acq: 29 Nov 2018 14:42

Tgt Ion: 85 Resp: 19717

Ion Ratio Lower Upper

85 100

87 32.6 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

40000

30000

20000

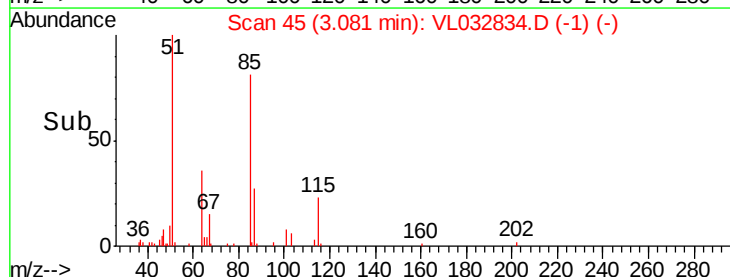
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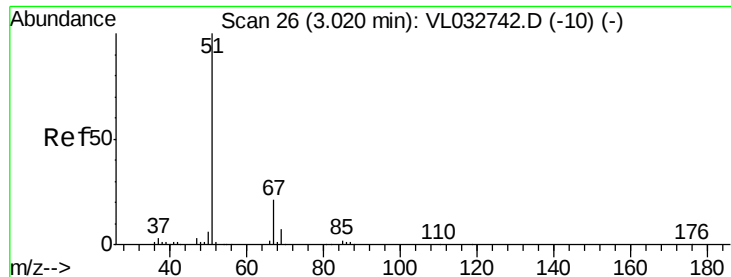
0

3.08

3.04 3.06 3.08 3.10 3.12

Time-->





#3

Chlorodifluoromethane

Concen: 76.119 ppbv

RT: 3.02 min Scan# 26

Delta R.T. -0.00 min

Lab File: VL032834.D

Acq: 29 Nov 2018 14:42

Instrument :

MSVOA_L

ClientSampleId :

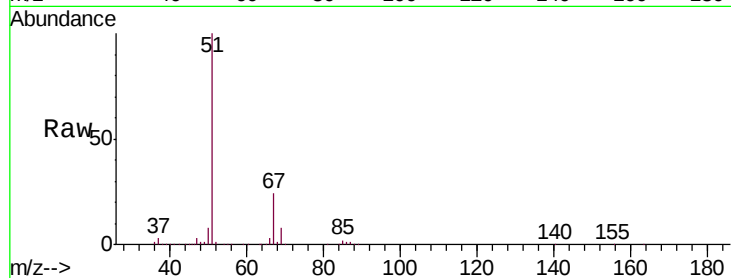
EP2-SV-02DL

Tgt Ion: 51 Resp: 8504439

Ion Ratio Lower Upper

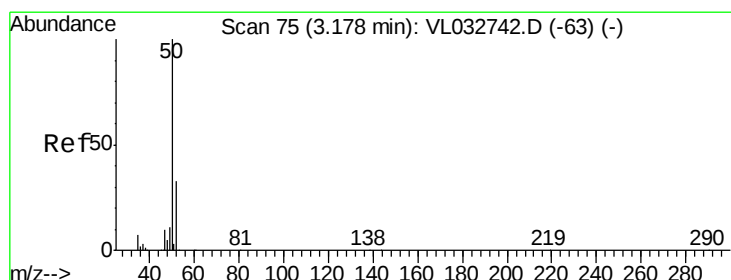
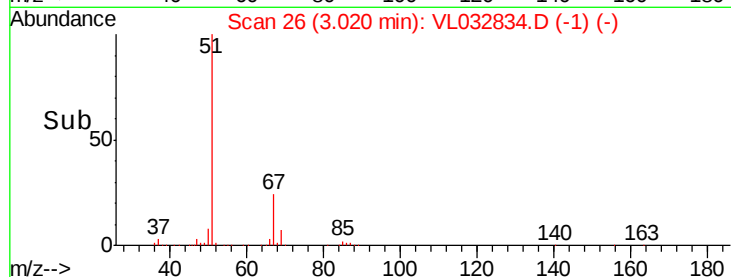
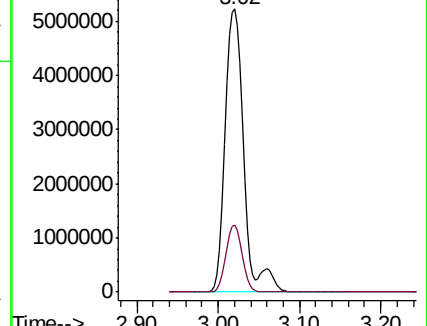
51 100

67 20.9 16.1 24.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.138 ppbv

RT: 3.06 min Scan# 38

Delta R.T. -0.12 min

Lab File: VL032834.D

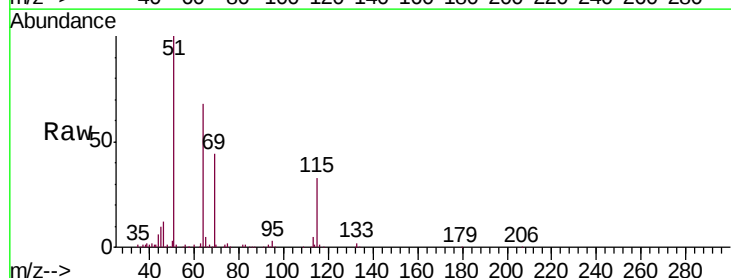
Acq: 29 Nov 2018 14:42

Tgt Ion: 50 Resp: 8571

Ion Ratio Lower Upper

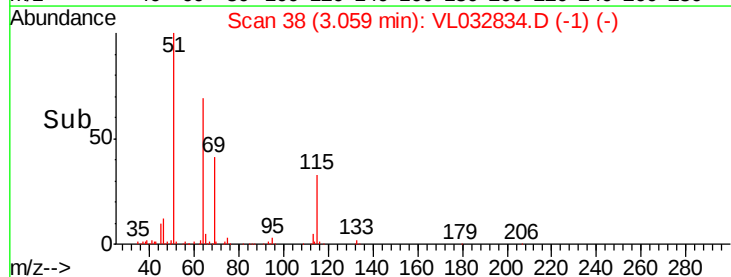
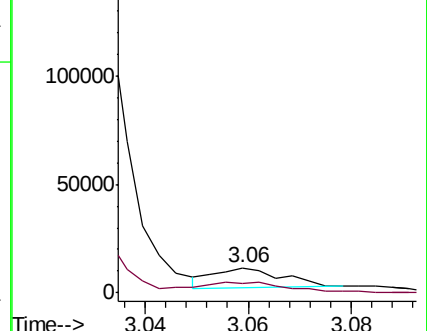
50 100

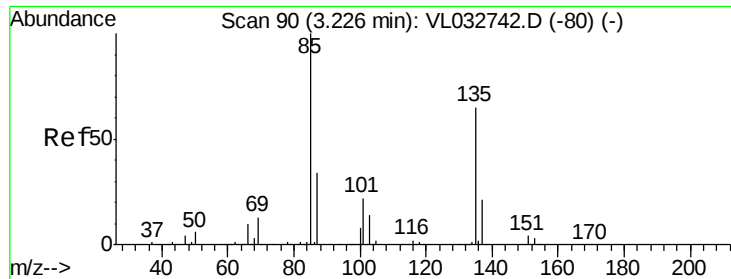
52 43.5 26.6 40.0#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#8

Dichlorotetrafluoroethane

Concen: 0.124 ppbv

RT: 3.08 min Scan# 45

Delta R.T. -0.14 min

Lab File: VL032834.D

Acq: 29 Nov 2018 14:42

Instrument :

MSVOA_L

ClientSampleId :

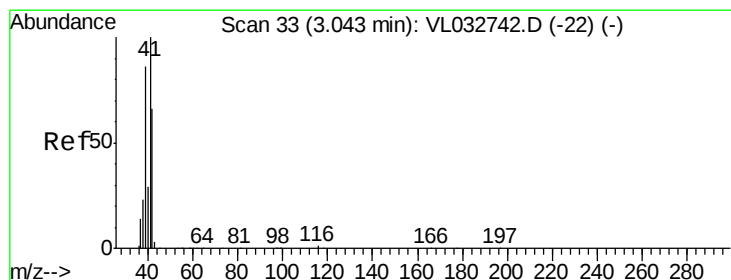
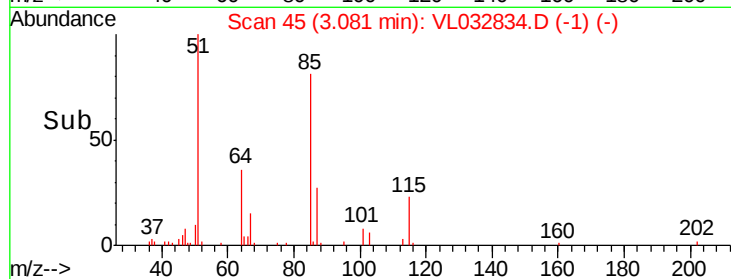
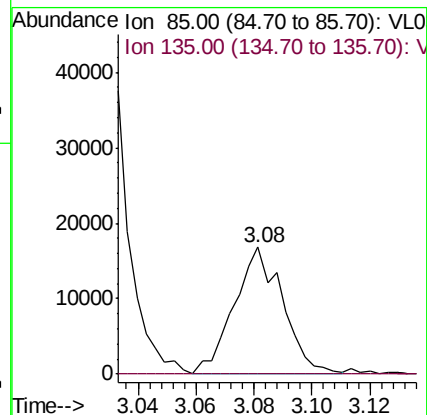
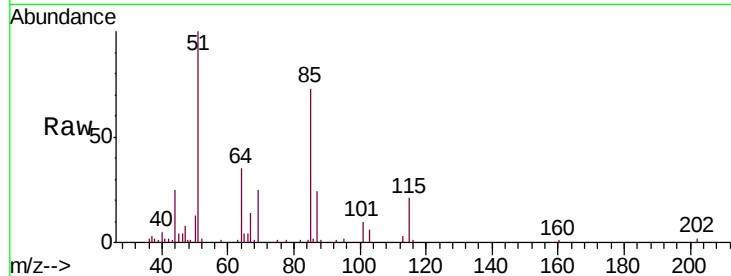
EP2-SV-02DL

Tgt Ion: 85 Resp: 19717

Ion Ratio Lower Upper

85 100

135 1.3 53.8 80.8#



#9

Propene

Concen: 1.090 ppbv

RT: 3.04 min Scan# 33

Delta R.T. -0.00 min

Lab File: VL032834.D

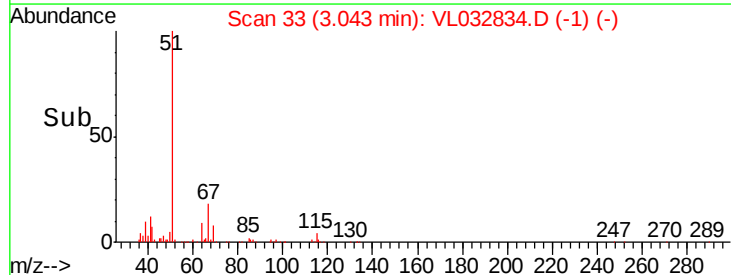
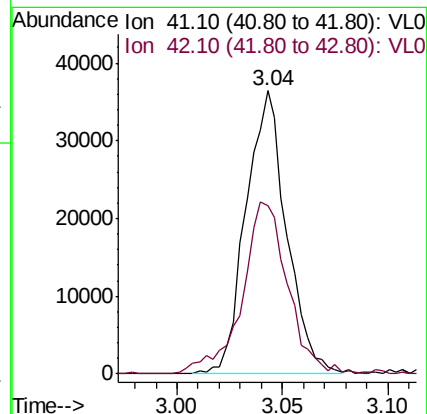
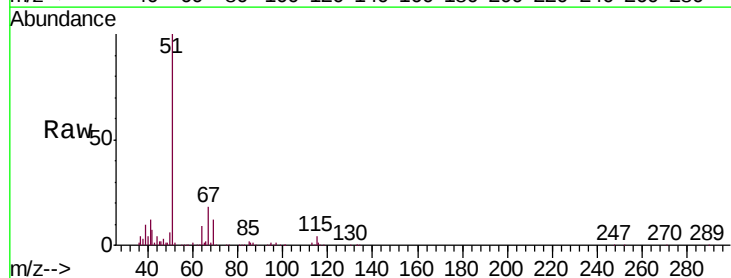
Acq: 29 Nov 2018 14:42

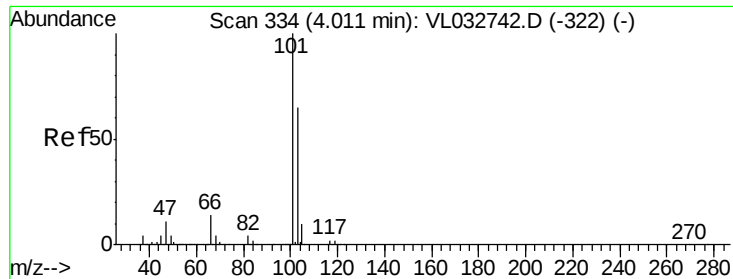
Tgt Ion: 41 Resp: 48745

Ion Ratio Lower Upper

41 100

42 68.8 55.0 82.6

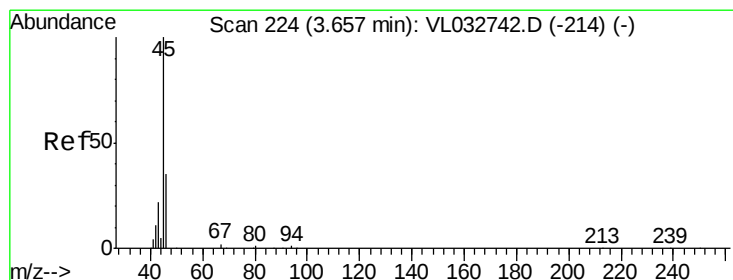
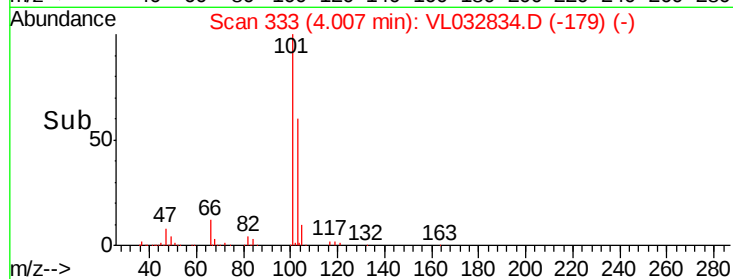
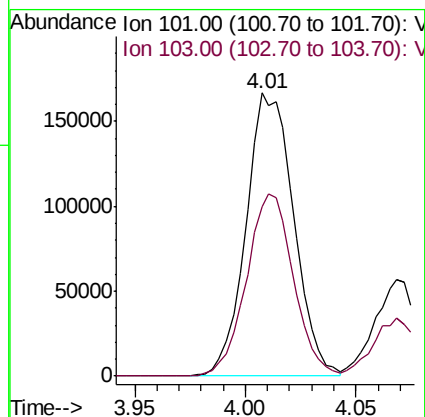
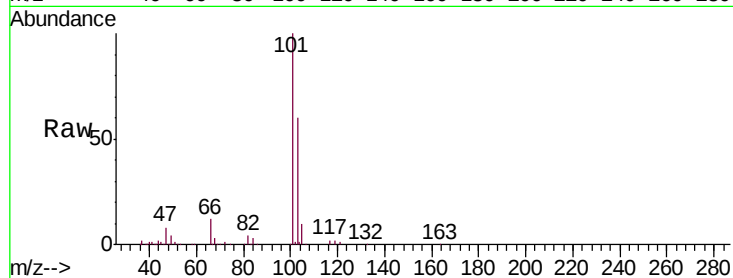




#11
 Trichlorofluoromethane
 Concen: 1.316 ppbv
 RT: 4.01 min Scan# 333
 Delta R.T. -0.00 min
 Lab File: VL032834.D
 Acq: 29 Nov 2018 14:42

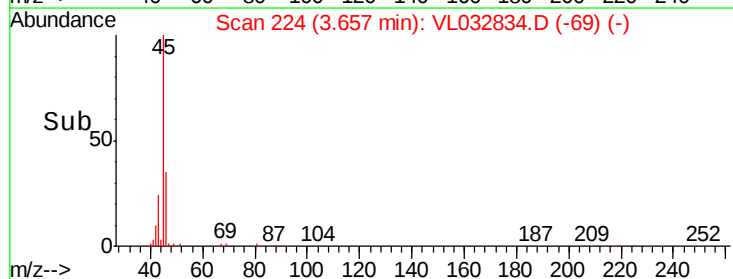
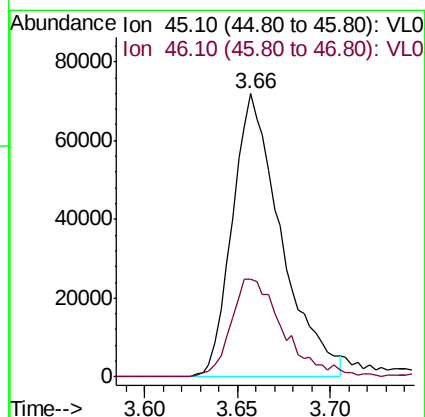
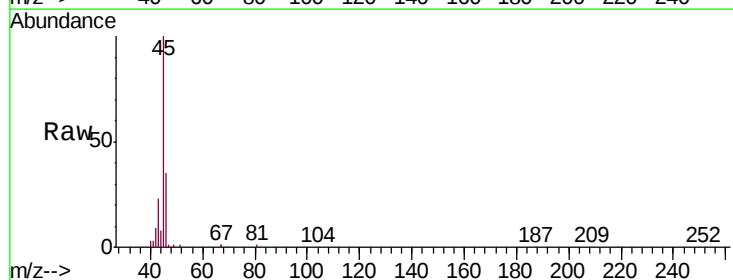
Instrument :
 MSVOA_L
 ClientSampleId :
 EP2-SV-02DL

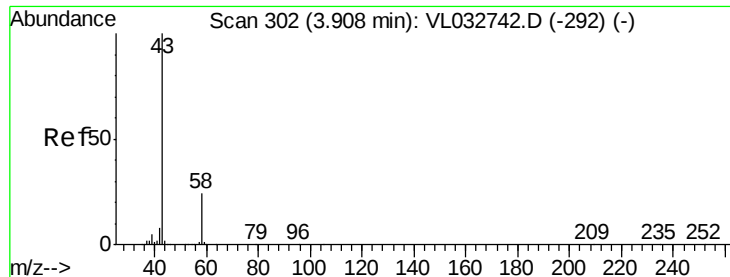
Tgt Ion: 101 Resp: 251203
 Ion Ratio Lower Upper
 101 100
 103 59.8 51.6 77.4



#13
 Ethanol
 Concen: 8.993 ppbv
 RT: 3.66 min Scan# 224
 Delta R.T. -0.00 min
 Lab File: VL032834.D
 Acq: 29 Nov 2018 14:42

Tgt Ion: 45 Resp: 131705
 Ion Ratio Lower Upper
 45 100
 46 37.2 14.5 57.9





#15

Acetone

Concen: 2.170 ppbv

RT: 3.91 min Scan# 304

Delta R.T. 0.01 min

Lab File: VL032834.D

Acq: 29 Nov 2018 14:42

Instrument :

MSVOA_L

ClientSampleId :

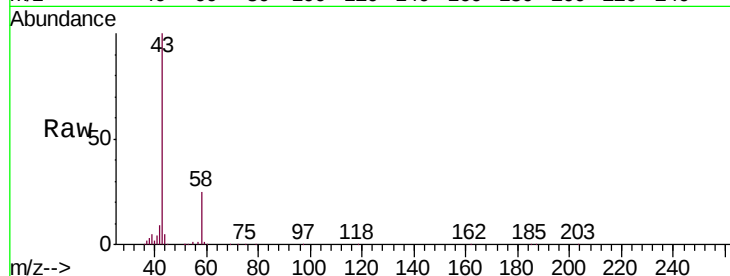
EP2-SV-02DL

Tgt Ion: 43 Resp: 279304

Ion Ratio Lower Upper

43 100

58 38.6 21.1 31.7#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.91

200000

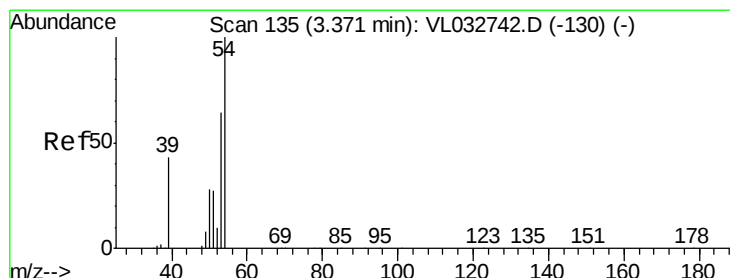
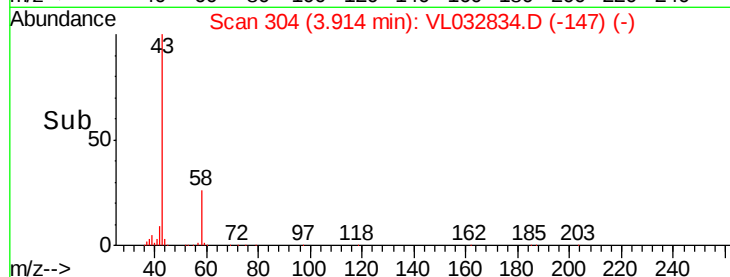
150000

100000

50000

0

Time--> 3.85 3.90 3.95



#16

1,3-Butadiene

Concen: 0.815 ppbv

RT: 3.35 min Scan# 129

Delta R.T. -0.02 min

Lab File: VL032834.D

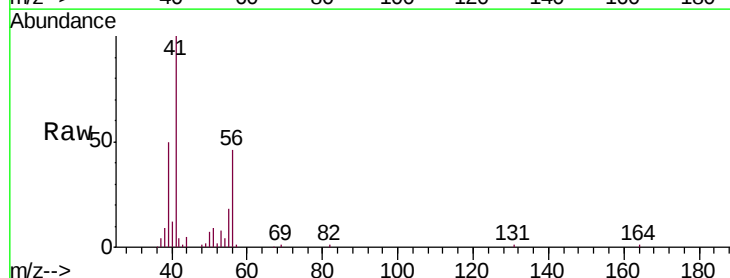
Acq: 29 Nov 2018 14:42

Tgt Ion: 39 Resp: 40630

Ion Ratio Lower Upper

39 100

54 8.1 68.9 103.3#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.35

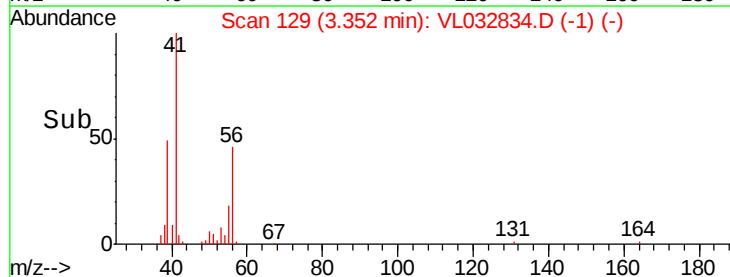
30000

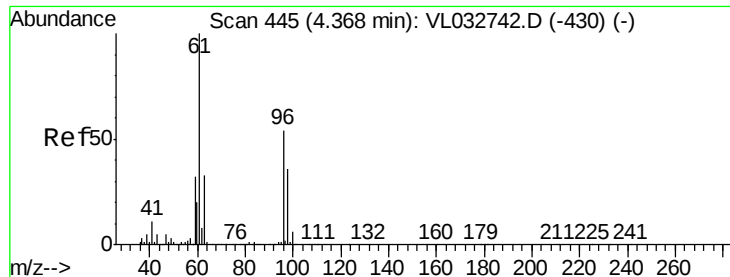
20000

10000

0

Time--> 3.30 3.35





#17

tert-Butyl alcohol

Concen: 0.047 ppbv

RT: 4.38 min Scan# 449

Delta R.T. 0.01 min

Lab File: VL032834.D

Acq: 29 Nov 2018 14:42

Instrument :

MSVOA_L

ClientSampleId :

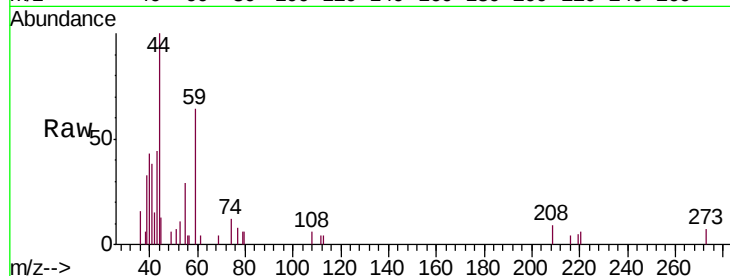
EP2-SV-02DL

Tgt Ion: 59 Resp: 1913

Ion Ratio Lower Upper

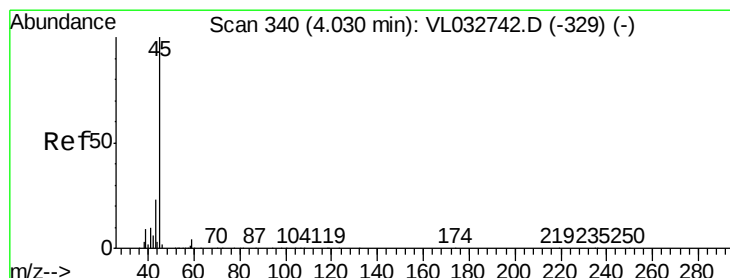
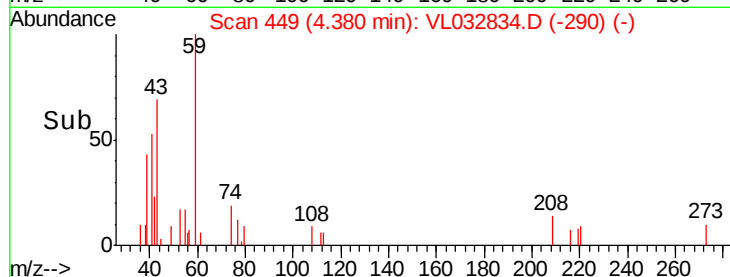
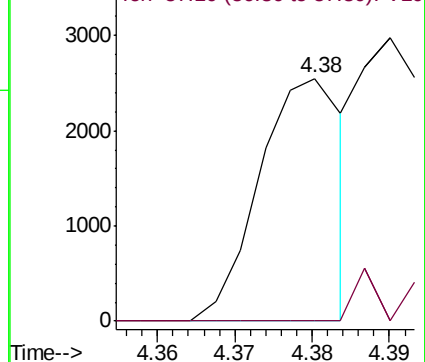
59 100

57 0.0 7.8 11.8#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#19

Isopropyl Alcohol

Concen: 5.193 ppbv

RT: 4.07 min Scan# 351

Delta R.T. 0.04 min

Lab File: VL032834.D

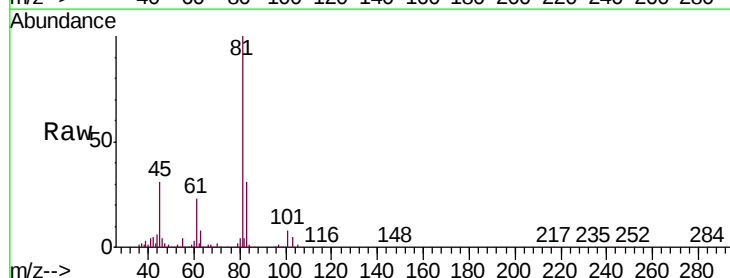
Acq: 29 Nov 2018 14:42

Tgt Ion: 45 Resp: 445228

Ion Ratio Lower Upper

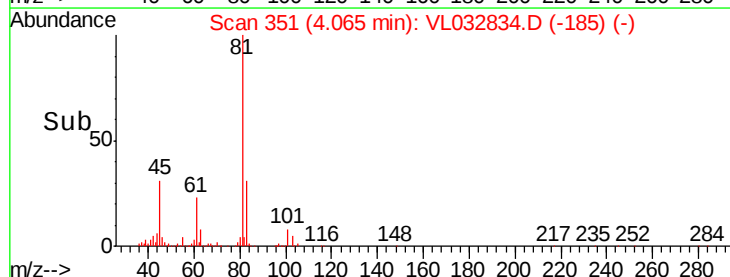
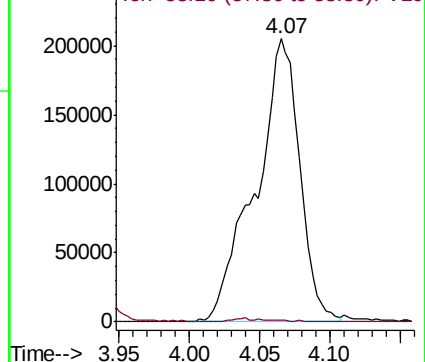
45 100

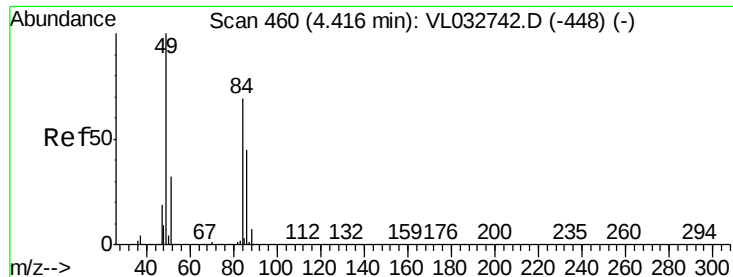
58 1.5 1.4 2.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#20

Methylene Chloride

Concen: 0.594 ppbv

RT: 4.42 min Scan# 460

Delta R.T. -0.00 min

Lab File: VL032834.D

Acq: 29 Nov 2018 14:42

Instrument :

MSVOA_L

ClientSampleId :

EP2-SV-02DL

Tgt Ion: 84 Resp: 39607

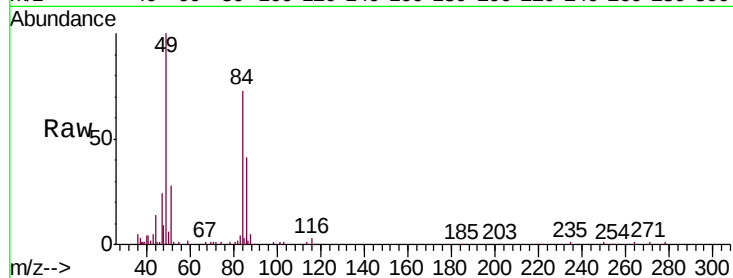
Ion Ratio Lower Upper

84 100

49 136.5 115.8 173.6

51 38.1 36.9 55.3

86 56.9 52.4 78.6



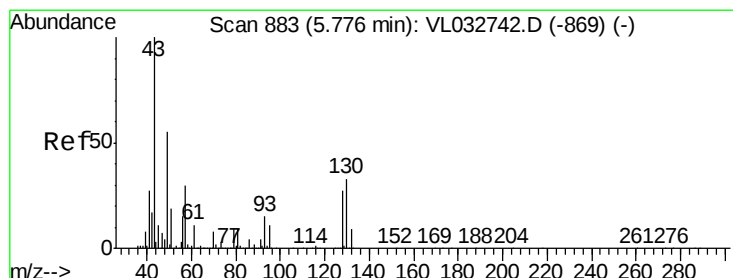
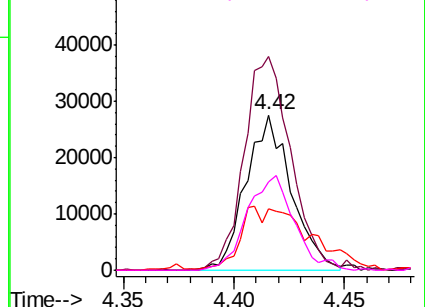
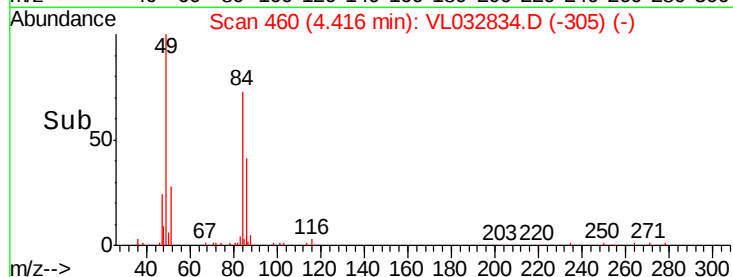
Abundance

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: 0.277 ppbv

RT: 5.79 min Scan# 886

Delta R.T. 0.01 min

Lab File: VL032834.D

Acq: 29 Nov 2018 14:42

Tgt Ion: 43 Resp: 83103

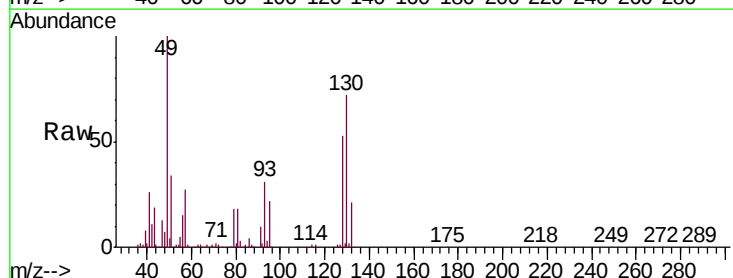
Ion Ratio Lower Upper

43 100

45 2.9 7.9 11.9#

61 1.0 7.8 11.6#

70 2.9 5.8 8.6#



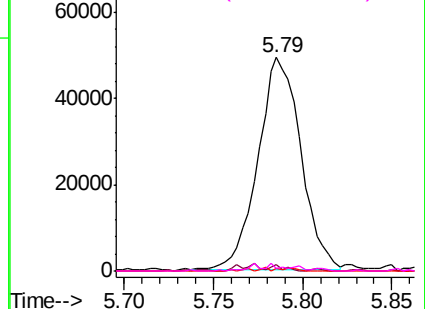
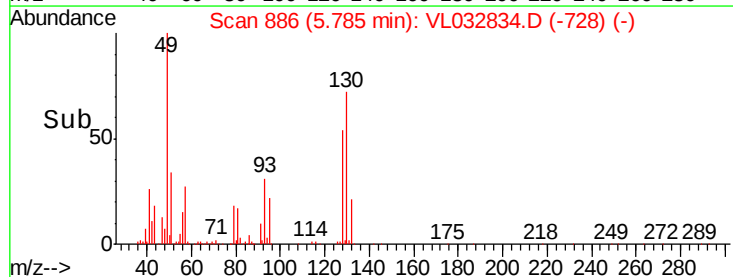
Abundance

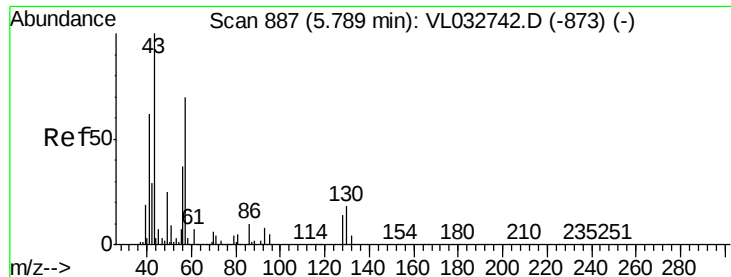
Ion 43.10 (42.80 to 43.80): VL0

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

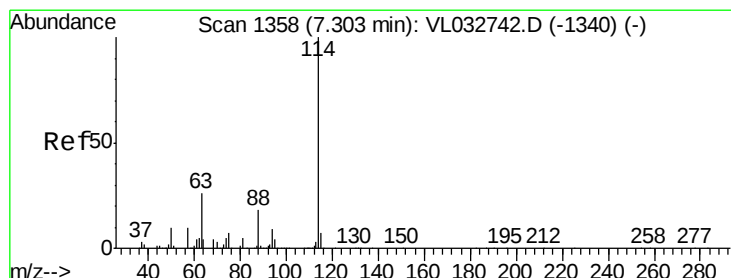
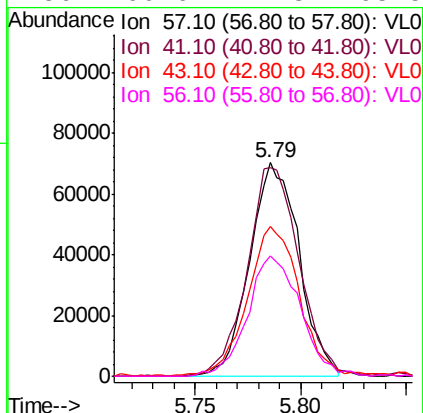
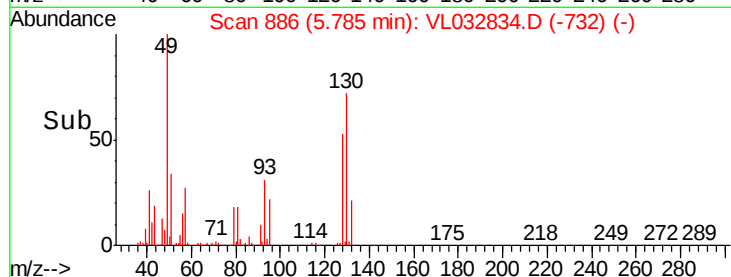
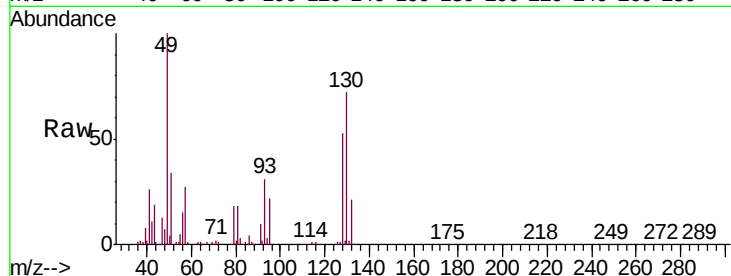




#26
Hexane
Concen: 0.854 ppbv
RT: 5.79 min Scan# 886
Delta R.T. -0.00 min
Lab File: VL032834.D
Acq: 29 Nov 2018 14:42

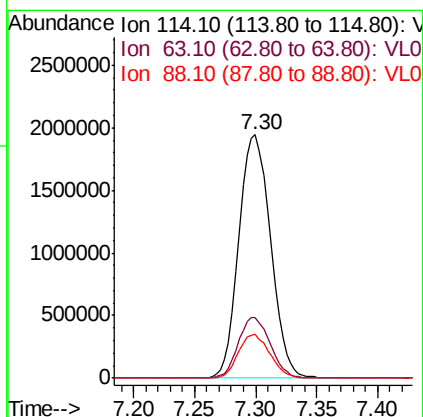
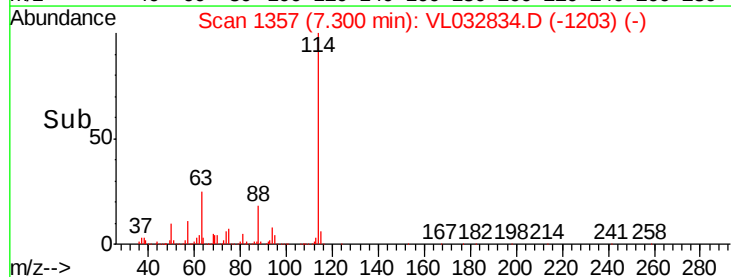
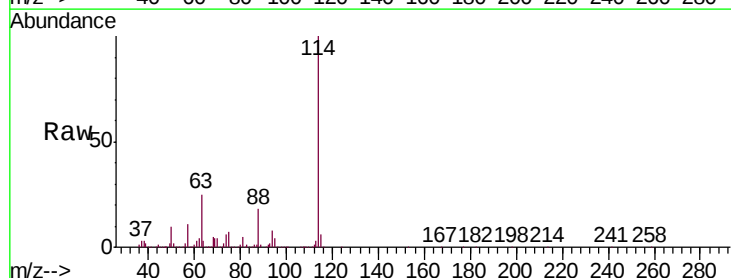
Instrument :
MSVOA_L
ClientSampleId :
EP2-SV-02DL

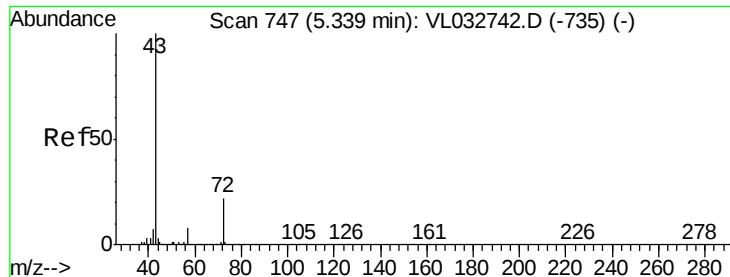
Tgt Ion: 57 Resp: 114060
Ion Ratio Lower Upper
57 100
41 103.6 70.3 105.5
43 74.5 174.0 261.0#
56 60.6 42.3 63.5



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1357
Delta R.T. -0.00 min
Lab File: VL032834.D
Acq: 29 Nov 2018 14:42

Tgt Ion: 114 Resp: 3505592
Ion Ratio Lower Upper
114 100
63 25.2 20.9 31.3
88 17.8 14.4 21.6

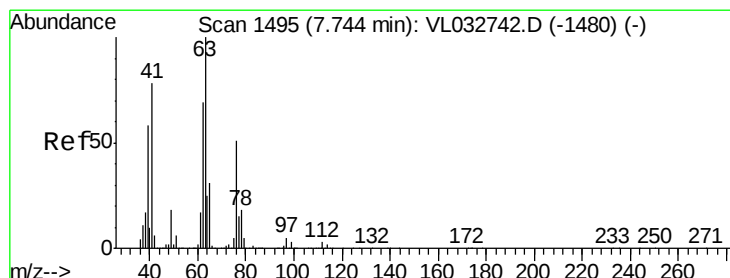
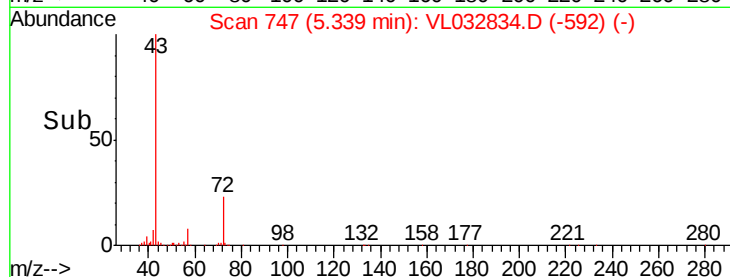
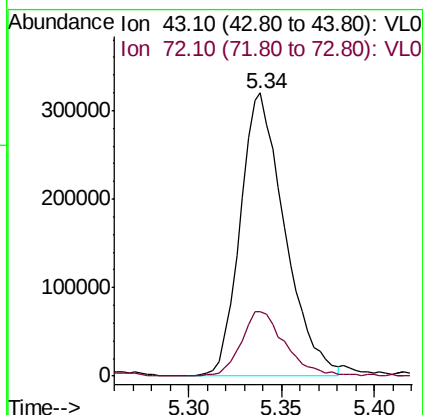
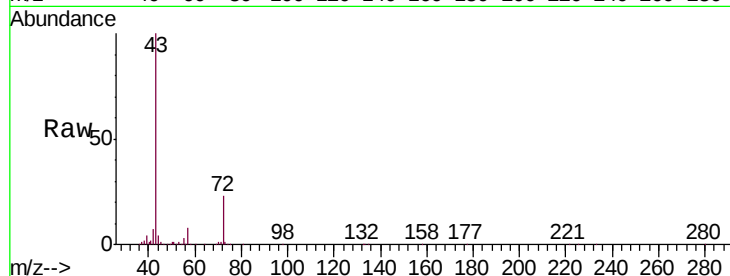




#34
2-Butanone
Concen: 2.934 ppbv
RT: 5.34 min Scan# 747
Delta R.T. -0.00 min
Lab File: VL032834.D
Acq: 29 Nov 2018 14:42

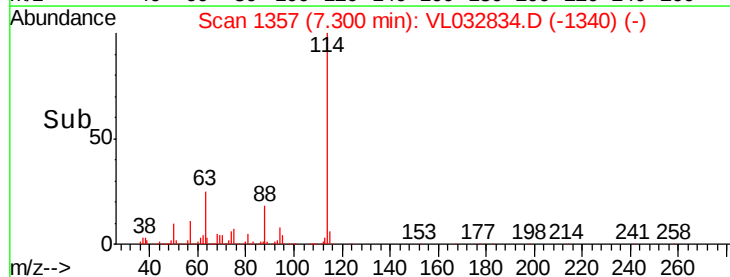
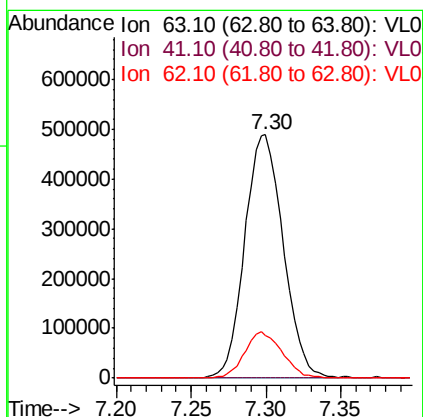
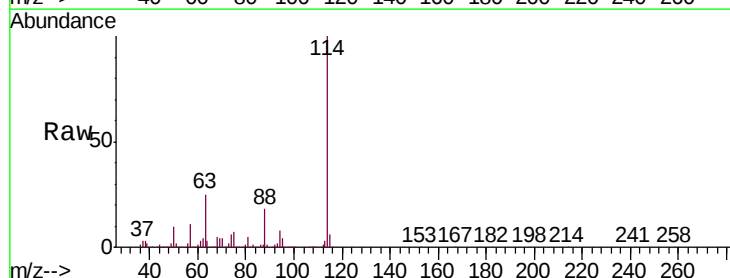
Instrument :
MSVOA_L
ClientSampleId :
EP2-SV-02DL

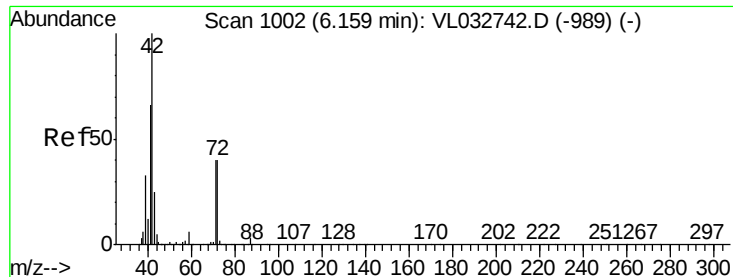
Tgt Ion: 43 Resp: 533433
Ion Ratio Lower Upper
43 100
72 23.1 18.4 27.6



#39
1,2-Dichloropropane
Concen: 8.242 ppbv
RT: 7.30 min Scan# 1357
Delta R.T. -0.44 min
Lab File: VL032834.D
Acq: 29 Nov 2018 14:42

Tgt Ion: 63 Resp: 876646
Ion Ratio Lower Upper
63 100
41 0.2 62.0 93.0#
62 17.4 55.4 83.2#





#41

Tetrahydrofuran

Concen: 0.396 ppbv

RT: 6.17 min Scan# 1007

Delta R.T. 0.02 min

Lab File: VL032834.D

Acq: 29 Nov 2018 14:42

Instrument :

MSVOA_L

ClientSampleId :

EP2-SV-02DL

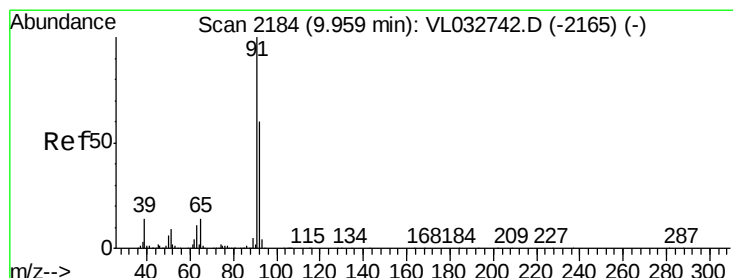
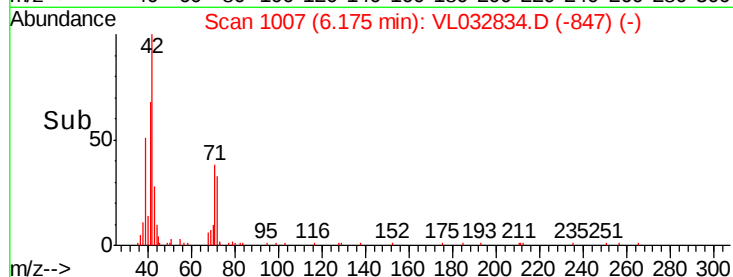
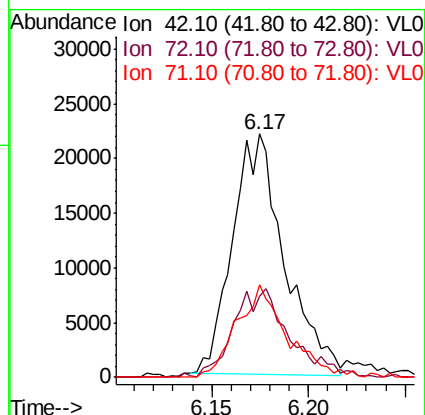
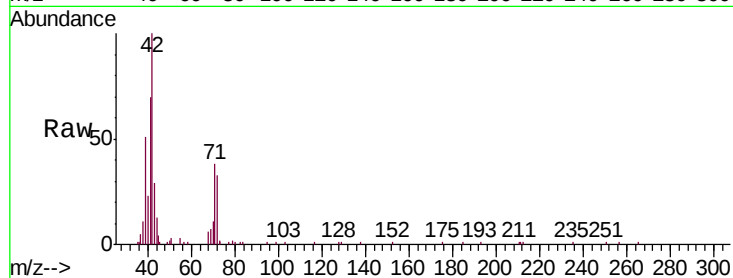
Tgt Ion: 42 Resp: 41259

Ion Ratio Lower Upper

42 100

72 39.7 32.4 48.6

71 37.3 31.6 47.4



#53

Toluene

Concen: 0.044 ppbv

RT: 9.96 min Scan# 2184

Delta R.T. -0.00 min

Lab File: VL032834.D

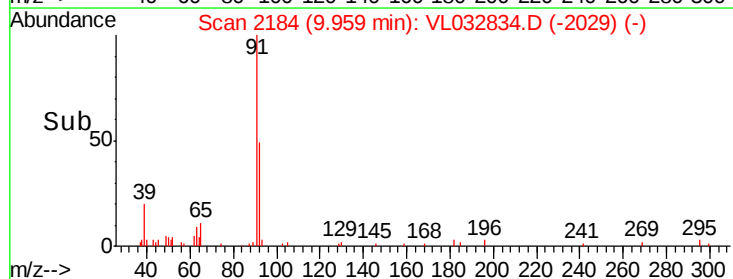
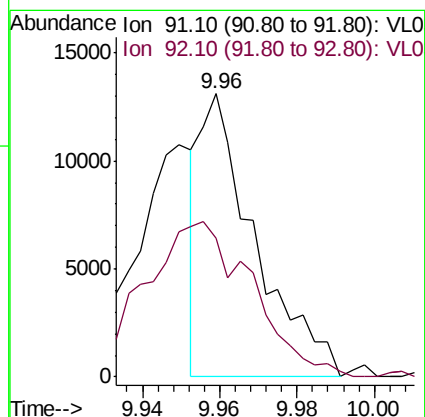
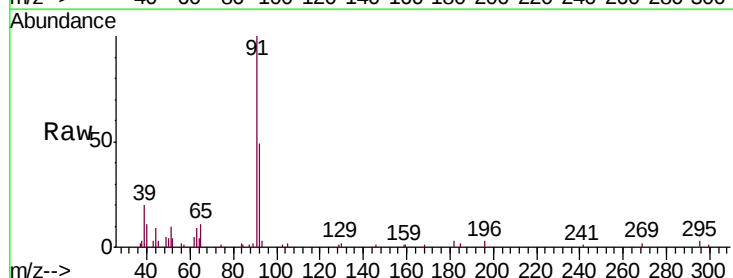
Acq: 29 Nov 2018 14:42

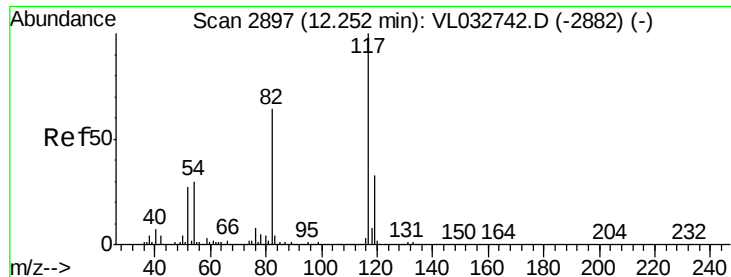
Tgt Ion: 91 Resp: 12873

Ion Ratio Lower Upper

91 100

92 110.5 47.9 71.9#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2896

Delta R.T. -0.00 min

Lab File: VL032834.D

Acq: 29 Nov 2018 14:42

Instrument :

MSVOA_L

ClientSampleId :

EP2-SV-02DL

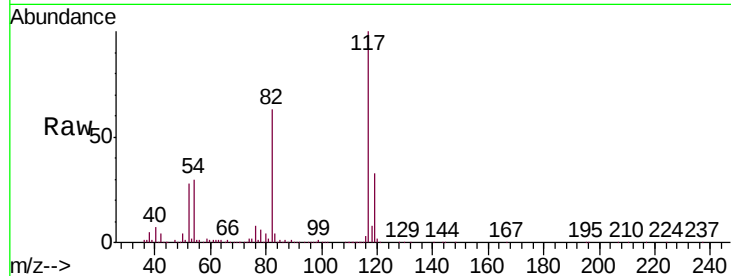
Tgt Ion:117 Resp: 3354928

Ion Ratio Lower Upper

117 100

82 63.8 51.0 76.6

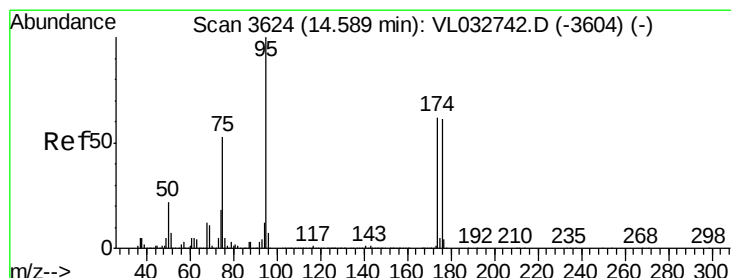
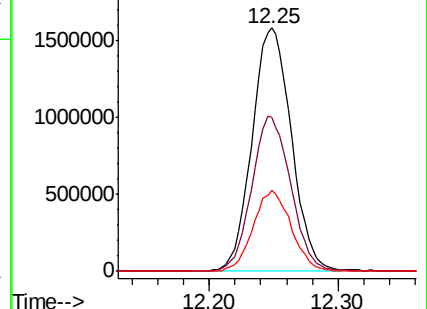
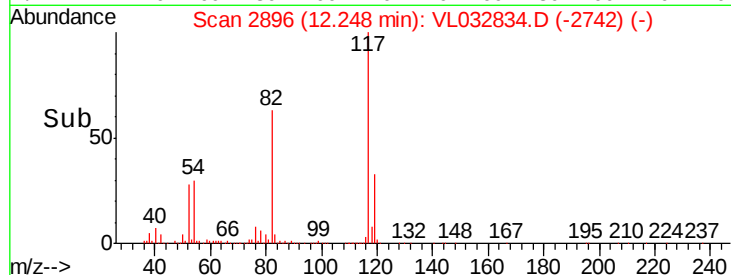
119 32.2 28.0 42.0



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: 10.151 ppbv

RT: 14.59 min Scan# 3623

Delta R.T. -0.00 min

Lab File: VL032834.D

Acq: 29 Nov 2018 14:42

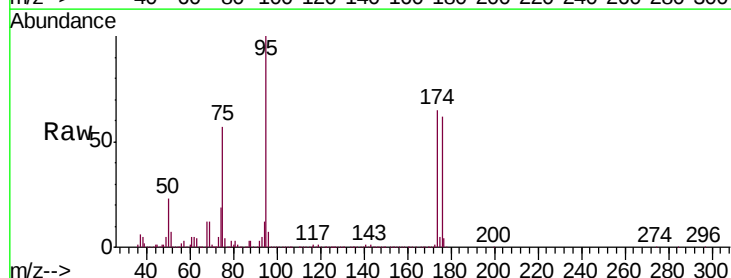
Tgt Ion: 95 Resp: 2547118

Ion Ratio Lower Upper

95 100

174 66.0 50.7 76.1

175 4.9 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

