

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092320\
 Data File : VL035718.D
 Acq On : 23 Sep 2020 14:24
 Operator : SY/AP
 Sample : L4079-02DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 B-2DL

Quant Time: Sep 24 08:26:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 23 07:38:05 2020
 QLast Update : Wed Sep 23 07:38:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1260034	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	4752992	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	4780861	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	3560194	9.94	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.40%

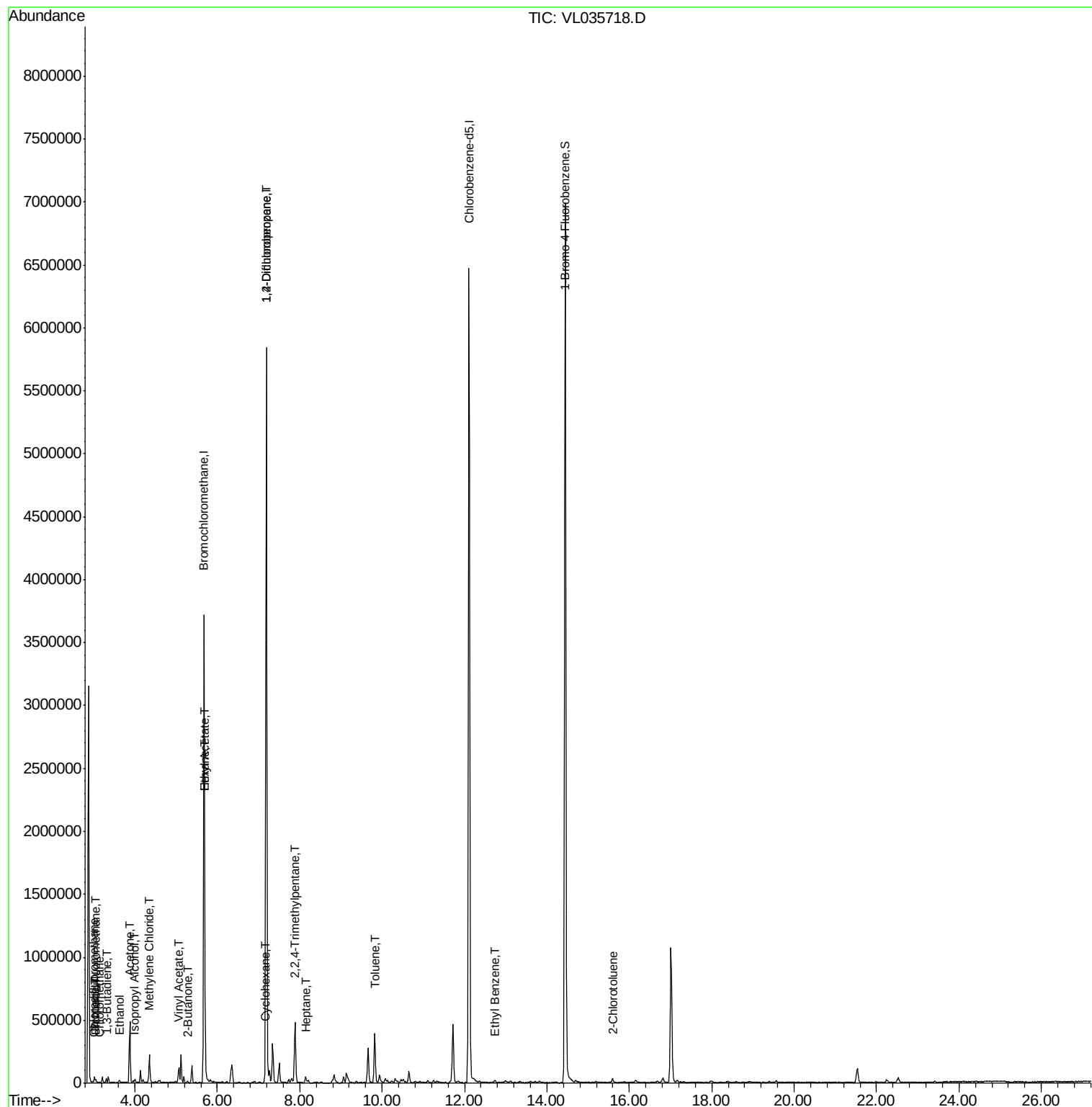
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	14801	0.072 ppbv	98
3) Chlorodifluoromethane	2.99	51	6682	0.049 ppbv #	90
4) Chloromethane	3.14	50	4293	0.059 ppbv	90
9) Propene	3.02	41	12356	0.251 ppbv #	80
10) Heptane	8.14	43	13924	0.101 ppbv #	19
13) Ethanol	3.62	45	17324	1.427 ppbv	94
15) Acetone	3.87	43	282386	2.083 ppbv #	86
16) 1,3-Butadiene	3.31	39	8577	0.173 ppbv #	8
19) Isopropyl Alcohol	3.99	45	21384	0.290 ppbv #	89
20) Methylene Chloride	4.35	84	94884	0.953 ppbv	97
23) Vinyl Acetate	5.07	43	51747	0.312 ppbv #	9
25) Ethyl Acetate	5.70	43	43595	0.179 ppbv #	76
26) Hexane	5.70	57	70290	0.526 ppbv #	51
30) Cyclohexane	7.15	84	5780	0.044 ppbv #	16
34) 2-Butanone	5.27	43	11648	0.074 ppbv	97
39) 1,2-Dichloropropane	7.19	63	945701	8.424 ppbv #	31
44) 2,2,4-Trimethylpentane	7.89	57	433158	0.975 ppbv	96
53) Toluene	9.83	91	36059	0.099 ppbv	95
58) Ethyl Benzene	12.74	91	16378	0.034 ppbv	97
71) 2-Chlorotoluene	15.59	91	33734	0.070 ppbv #	41

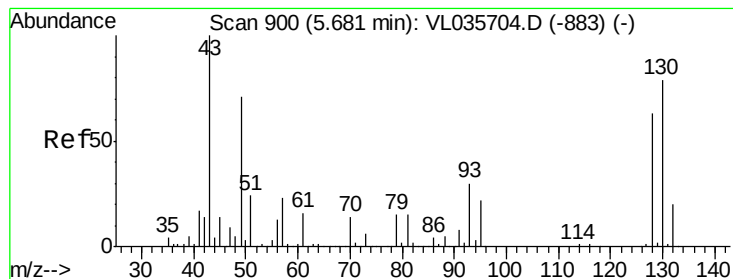
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL092320\
Data File : VL035718.D
Acq On : 23 Sep 2020 14:24
Operator : SY/AP
Sample : L4079-02DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
B-2DL

Quant Time: Sep 24 08:26:30 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 23 07:38:05 2020
QLast Update : Wed Sep 23 07:38:05 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.00 min

Lab File: VL035718.D

Acq: 23 Sep 2020 14:24

Instrument :

MSVOA_L

ClientSampleId :

B-2DL

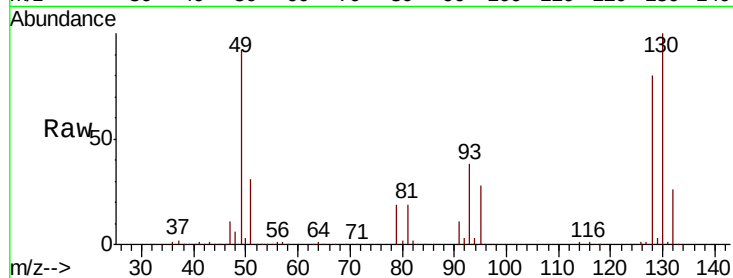
Tot Ion: 49 Resp: 1260034

Ion Ratio Lower Upper

49 100

128 86.2 43.1 129.4

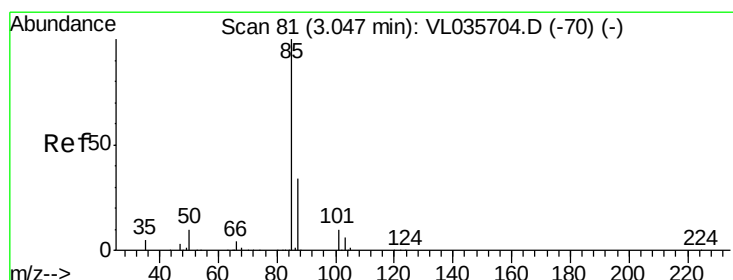
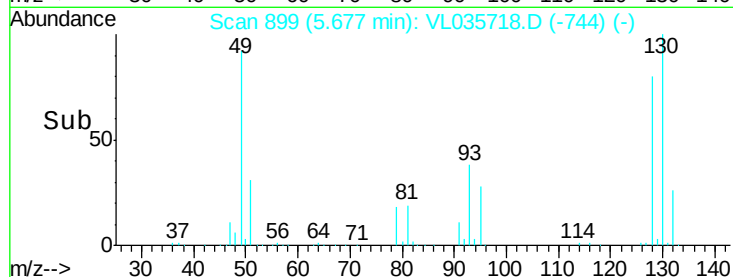
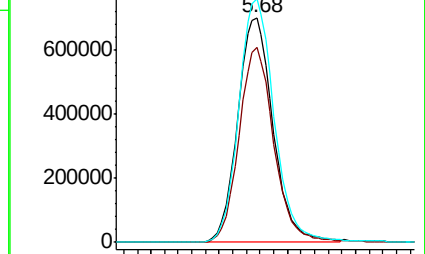
130 109.3 54.9 164.7



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: 0.072 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL035718.D

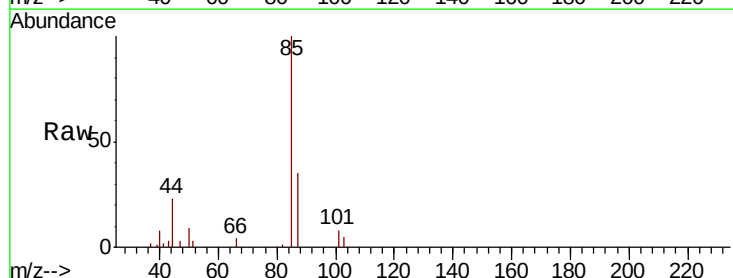
Acq: 23 Sep 2020 14:24

Tgt Ion: 85 Resp: 14801

Ion Ratio Lower Upper

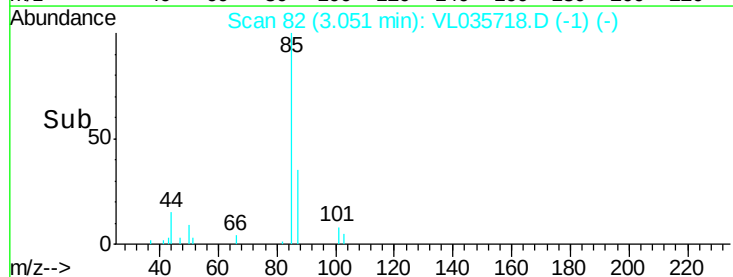
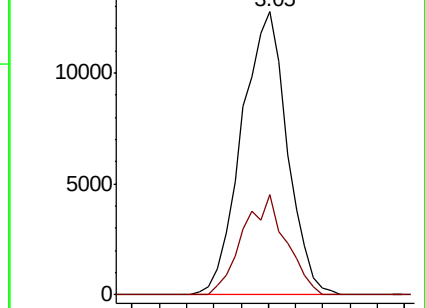
85 100

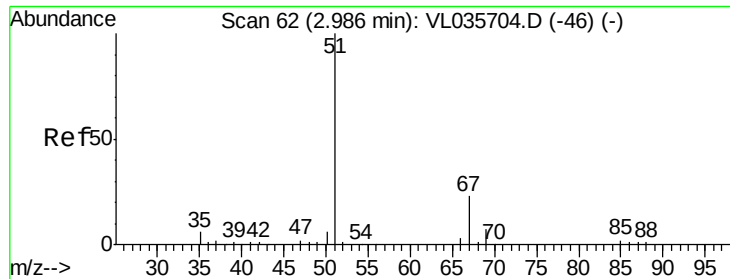
87 35.5 27.3 40.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.049 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.00 min

Lab File: VL035718.D

Acq: 23 Sep 2020 14:24

Instrument :

MSVOA_L

ClientSampleId :

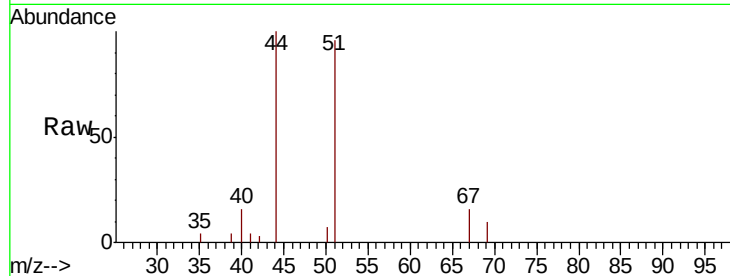
B-2DL

Tot Ion: 51 Resp: 6682

Ion Ratio Lower Upper

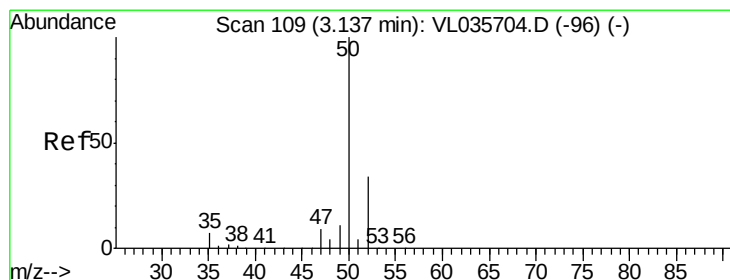
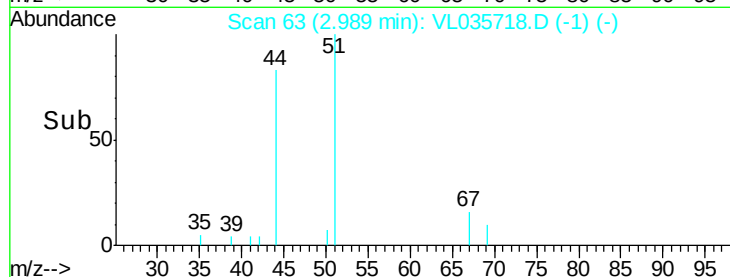
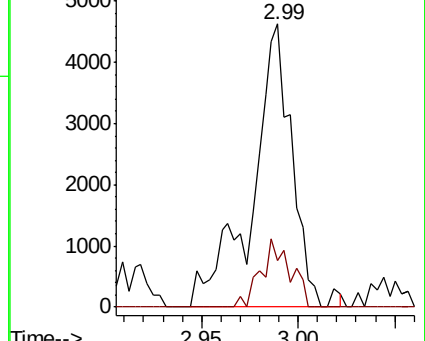
51 100

67 17.5 17.8 26.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.059 ppbv

RT: 3.14 min Scan# 110

Delta R.T. 0.00 min

Lab File: VL035718.D

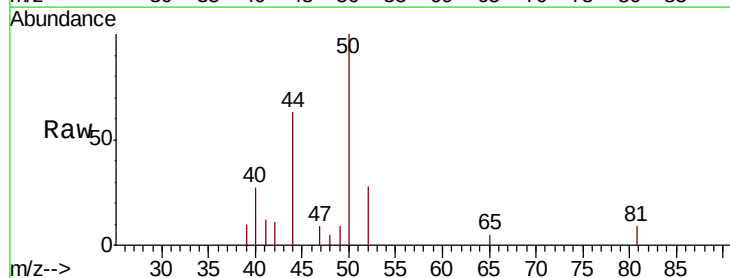
Acq: 23 Sep 2020 14:24

Tgt Ion: 50 Resp: 4293

Ion Ratio Lower Upper

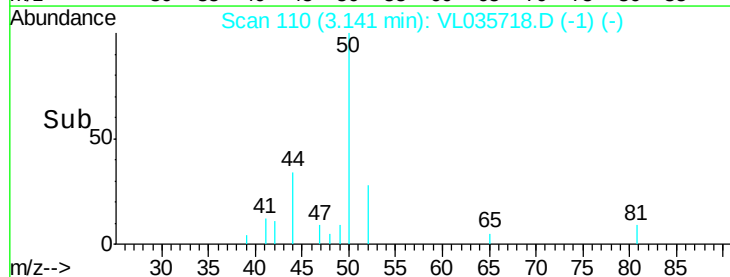
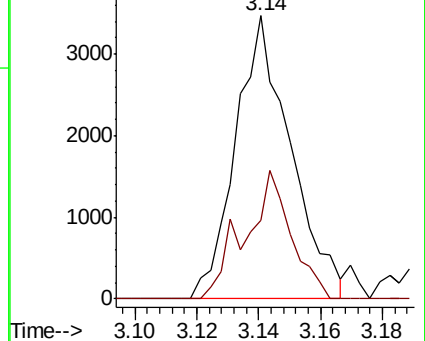
50 100

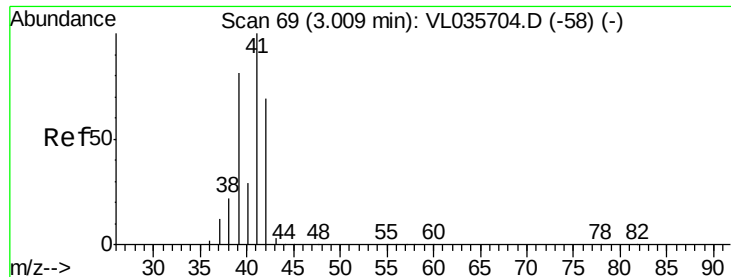
52 28.0 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.251 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.01 min

Lab File: VL035718.D

Acq: 23 Sep 2020 14:24

Instrument :

MSVOA_L

ClientSampleId :

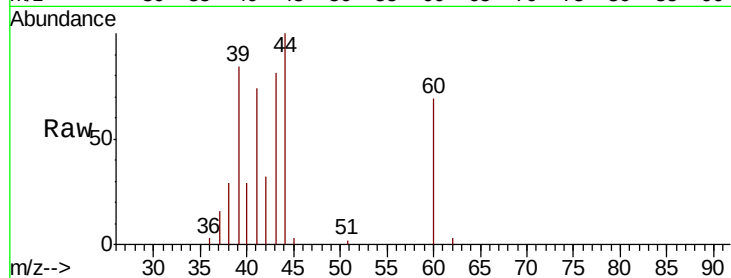
B-2DL

Tot Ion: 41 Resp: 12356

Ion Ratio Lower Upper

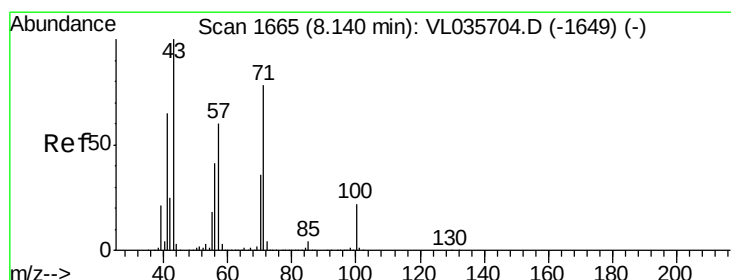
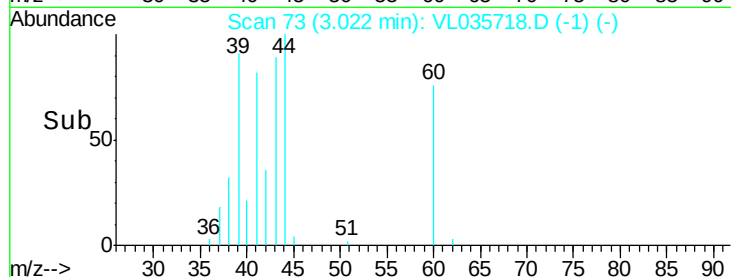
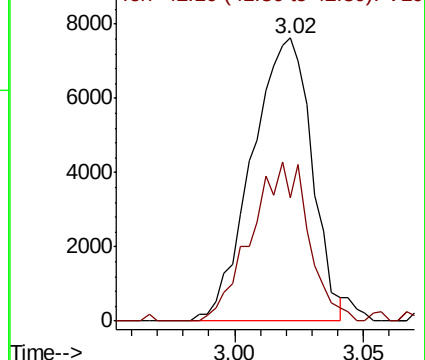
41 100

42 54.2 56.2 84.4#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.101 ppbv

RT: 8.14 min Scan# 1665

Delta R.T. 0.00 min

Lab File: VL035718.D

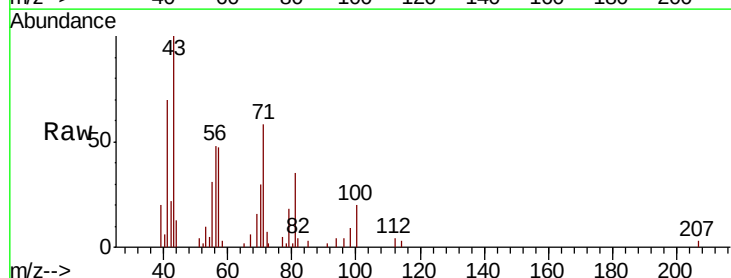
Acq: 23 Sep 2020 14:24

Tgt Ion: 43 Resp: 13924

Ion Ratio Lower Upper

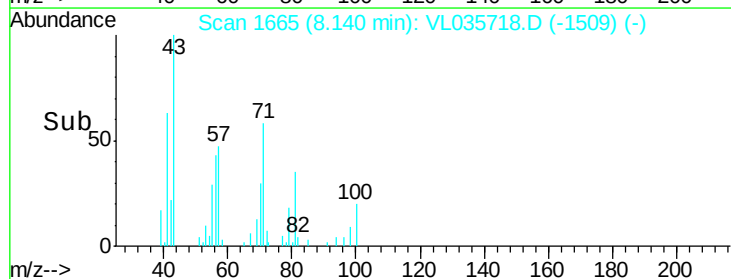
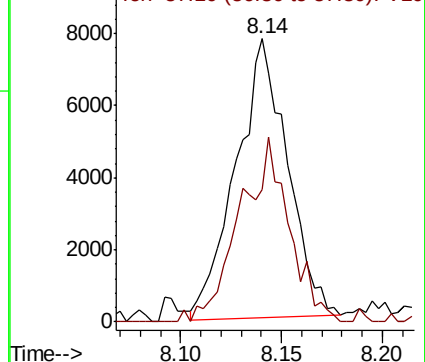
43 100

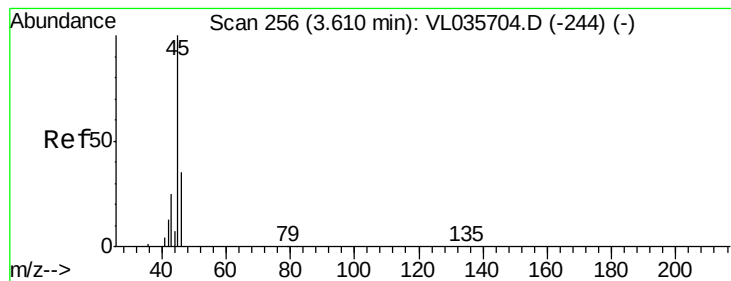
57 0.0 50.4 75.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#13

Ethanol

Concen: 1.427 ppbv

RT: 3.62 min Scan# 259

Delta R.T. 0.01 min

Lab File: VL035718.D

Acq: 23 Sep 2020 14:24

Instrument :

MSVOA_L

ClientSampled :

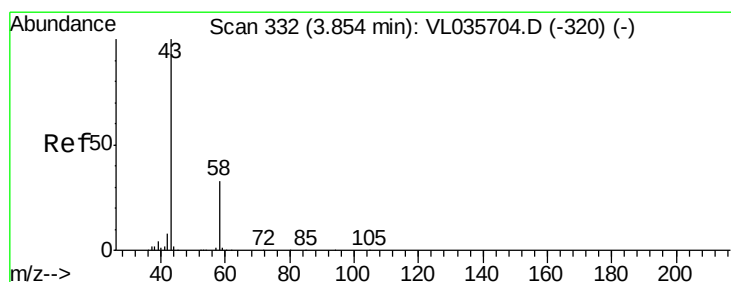
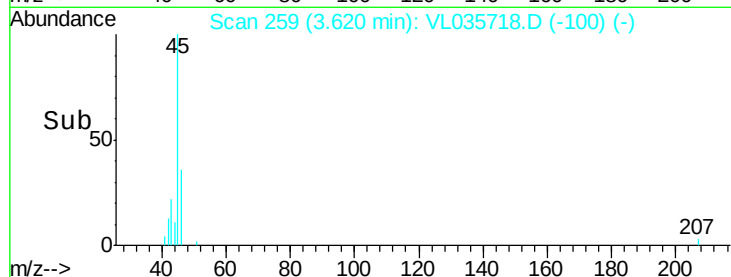
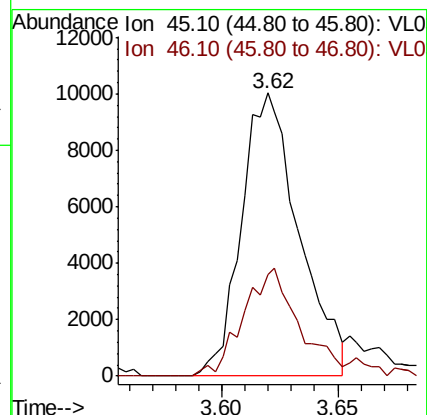
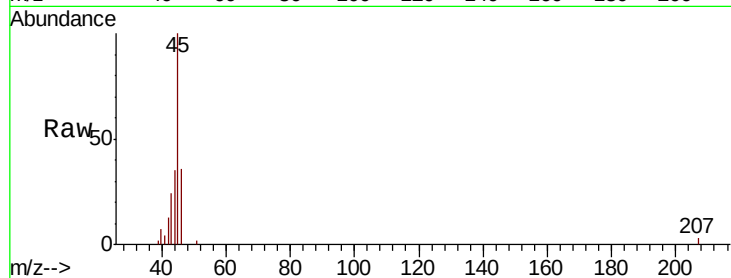
B-2DL

Tot Ion: 45 Resp: 17324

Ion Ratio Lower Upper

45 100

46 40.1 14.7 58.7



#15

Acetone

Concen: 2.083 ppbv

RT: 3.87 min Scan# 336

Delta R.T. 0.01 min

Lab File: VL035718.D

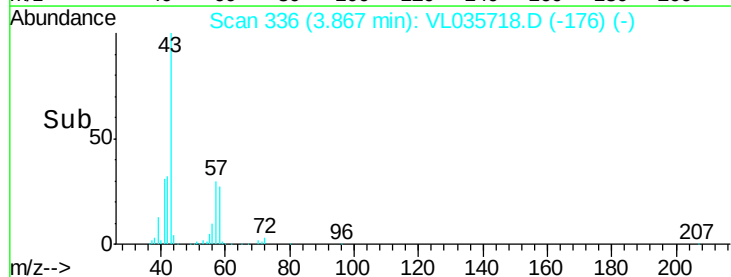
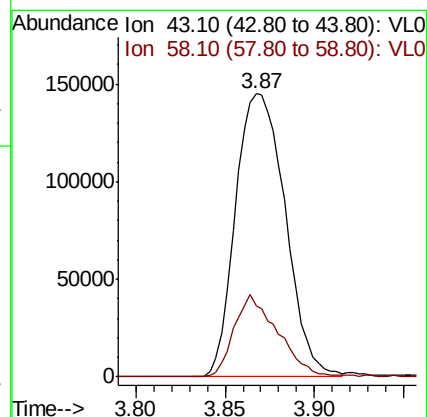
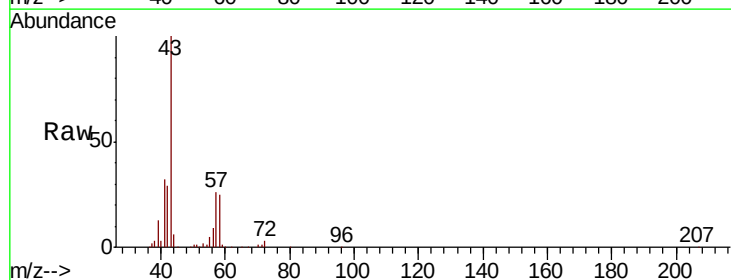
Acq: 23 Sep 2020 14:24

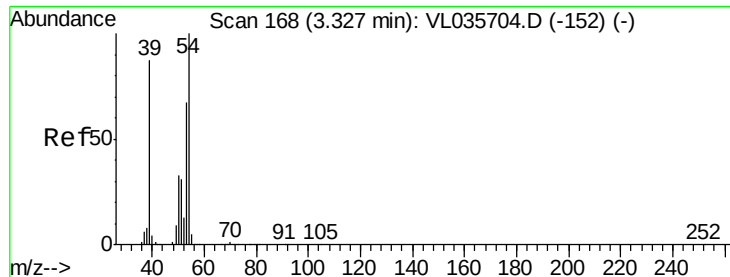
Tgt Ion: 43 Resp: 282386

Ion Ratio Lower Upper

43 100

58 25.9 27.3 40.9#





#16

1,3-Butadiene

Concen: 0.173 ppbv

RT: 3.31 min Scan# 162

Delta R.T. -0.02 min

Lab File: VL035718.D

Acq: 23 Sep 2020 14:24

Instrument :

MSVOA_L

ClientSampleId :

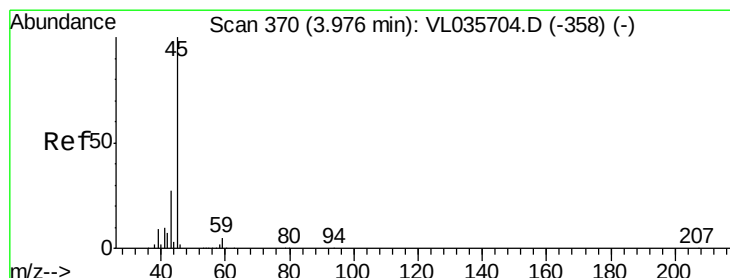
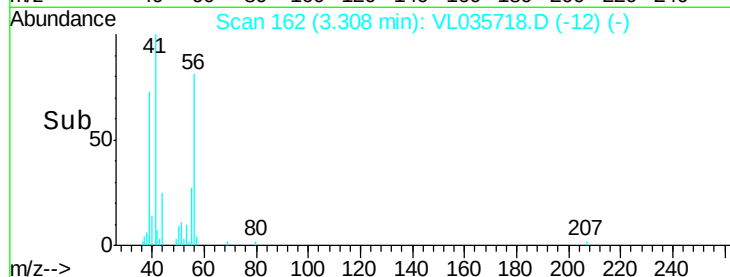
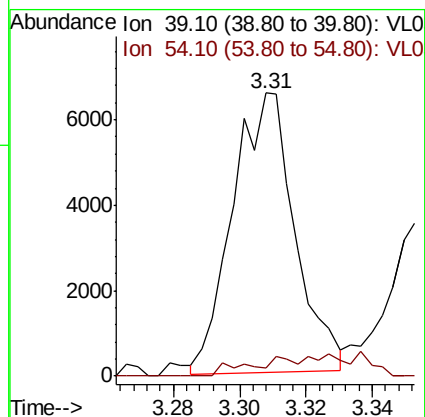
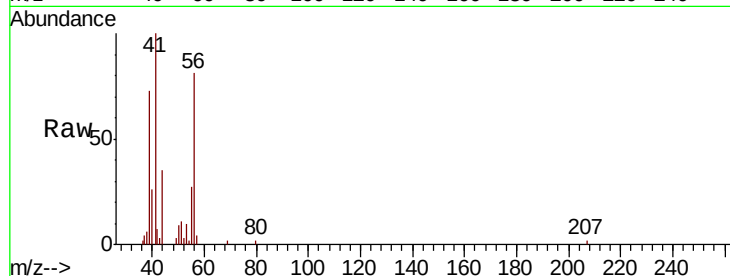
B-2DL

Tot Ion: 39 Resp: 8577

Ion Ratio Lower Upper

39 100

54 12.1 87.4 131.0#



#19

Isopropyl Alcohol

Concen: 0.290 ppbv

RT: 3.99 min Scan# 375

Delta R.T. 0.02 min

Lab File: VL035718.D

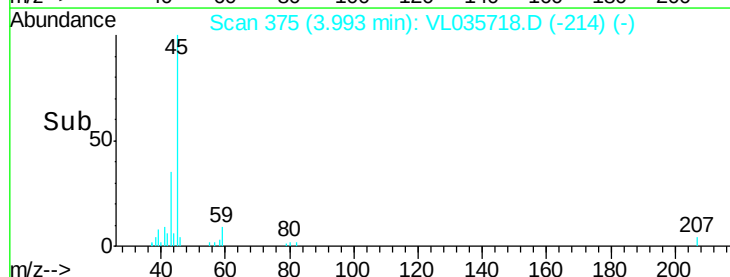
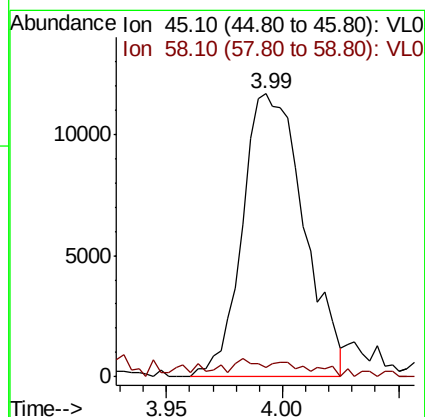
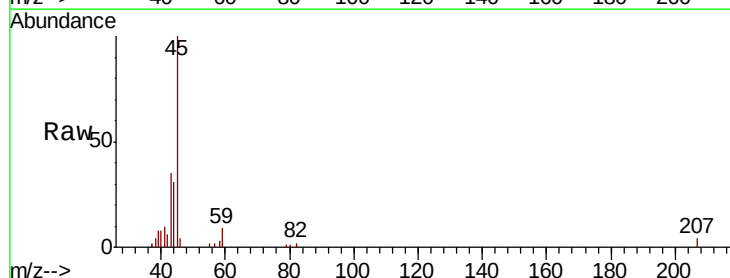
Acq: 23 Sep 2020 14:24

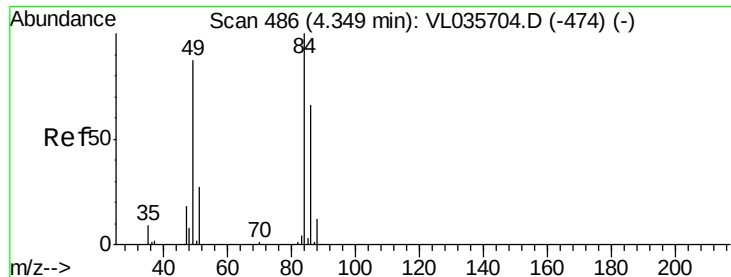
Tgt Ion: 45 Resp: 21384

Ion Ratio Lower Upper

45 100

58 0.0 2.8 4.2#

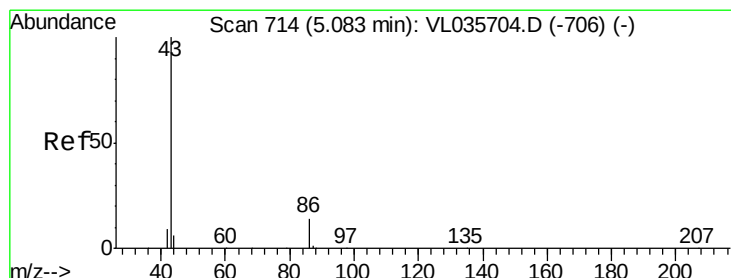
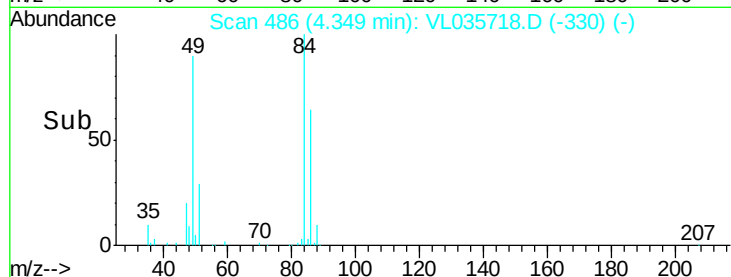
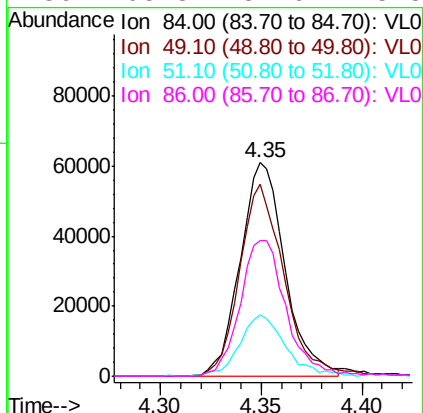
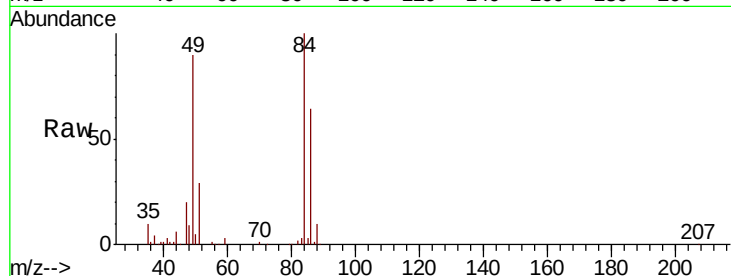




#20
Methvlene Chloride
Concen: 0.953 ppbv
RT: 4.35 min Scan# 486
Delta R.T. 0.00 min
Lab File: VL035718.D
Acq: 23 Sep 2020 14:24

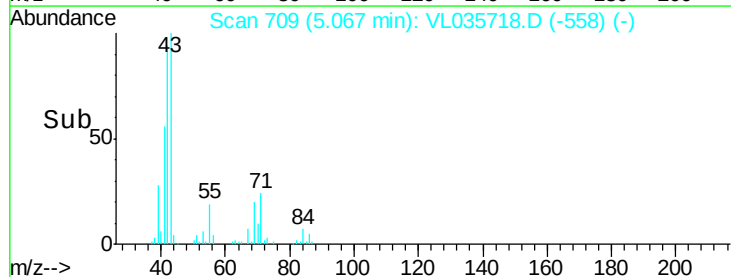
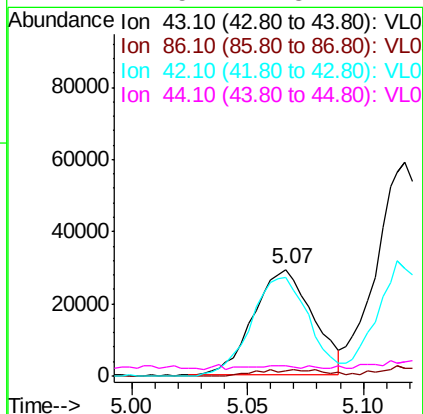
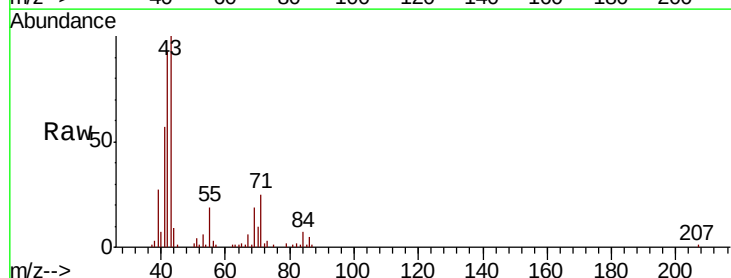
Instrument :
MSVOA_L
ClientSampleId :
B-2DL

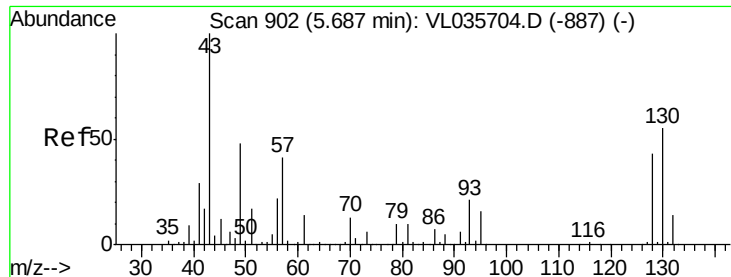
Tot Ion:	84	Resp:	94884
Ion	Ratio	Lower	Upper
84	100		
49	89.8	69.8	104.6
51	28.9	21.8	32.8
86	63.8	52.6	78.8



#23
Vinyl Acetate
Concen: 0.312 ppbv
RT: 5.07 min Scan# 709
Delta R.T. -0.02 min
Lab File: VL035718.D
Acq: 23 Sep 2020 14:24

Tgt Ion:	43	Resp:	51747
Ion	Ratio	Lower	Upper
43	100		
86	5.3	9.7	14.5#
42	93.8	7.9	11.9#
44	1.5	4.8	7.2#





#25

Ethyl Acetate

Concen: 0.179 ppbv

RT: 5.70 min Scan# 906

Delta R.T. 0.01 min

Lab File: VL035718.D

Acq: 23 Sep 2020 14:24

Instrument :

MSVOA_L

ClientSampleId :

B-2DL

Tot Ion: 43 Resp: 43595

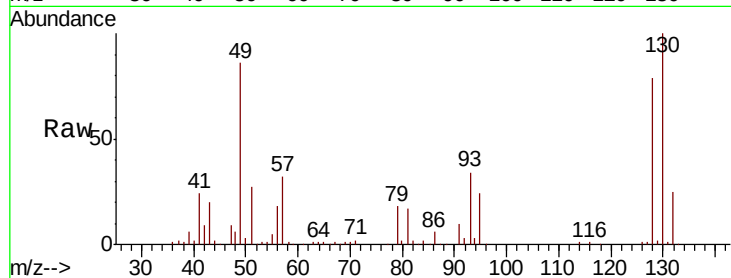
Ion Ratio Lower Upper

43 100

45 2.7 8.6 12.8#

61 1.7 10.4 15.6#

70 3.0 8.9 13.3#

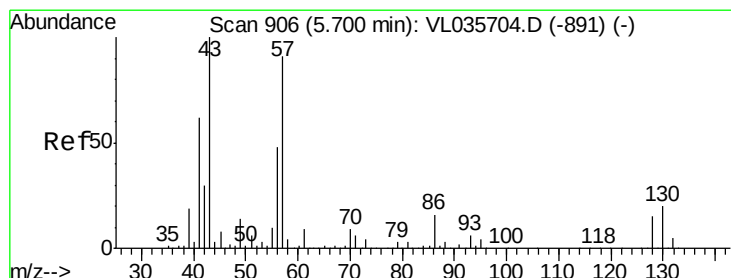
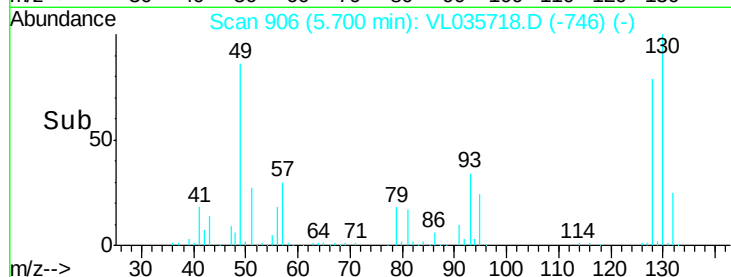
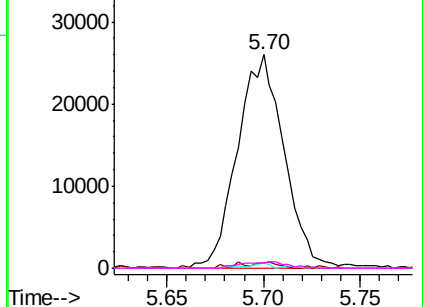


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.526 ppbv

RT: 5.70 min Scan# 906

Delta R.T. 0.00 min

Lab File: VL035718.D

Acq: 23 Sep 2020 14:24

Tgt Ion: 57 Resp: 70290

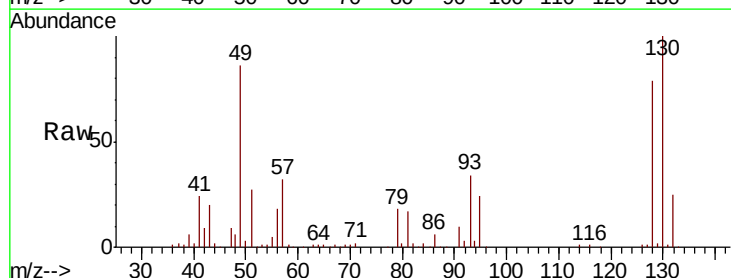
Ion Ratio Lower Upper

57 100

41 73.2 57.9 86.9

43 62.7 143.8 215.6#

56 56.0 43.0 64.6

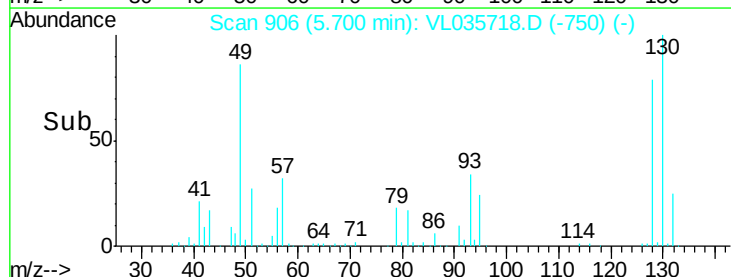
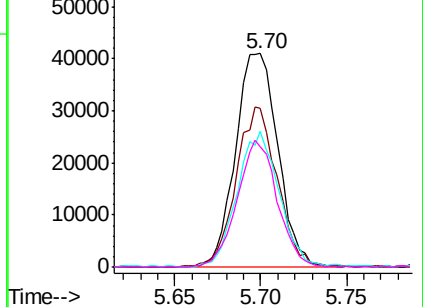


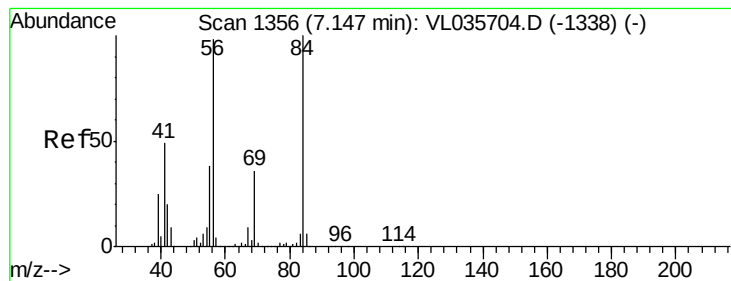
Abundance Ion 57.10 (56.80 to 57.80): VL0

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

Cyclohexane

Concen: 0.044 ppbv

RT: 7.15 min Scan# 1356

Delta R.T. 0.00 min

Lab File: VL035718.D

Acq: 23 Sep 2020 14:24

Instrument :

MSVOA_L

ClientSampleId :

B-2DL

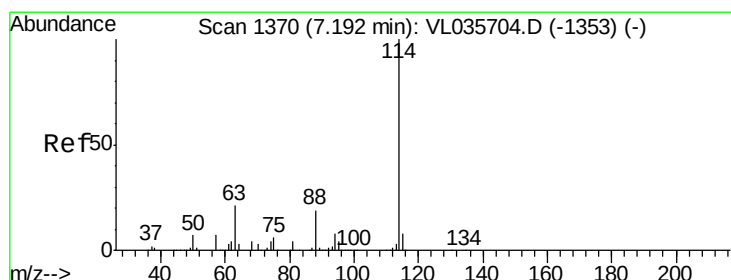
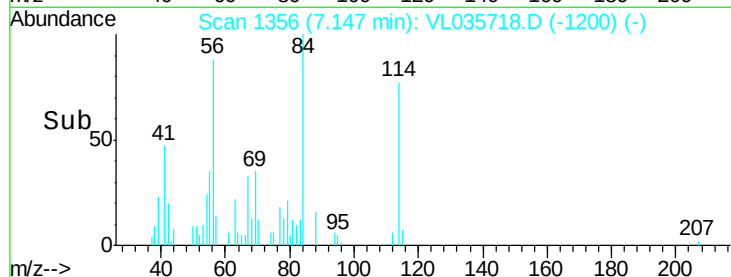
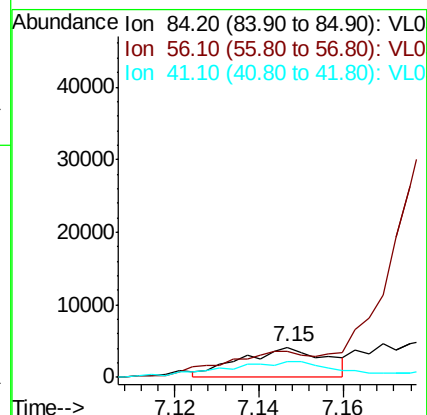
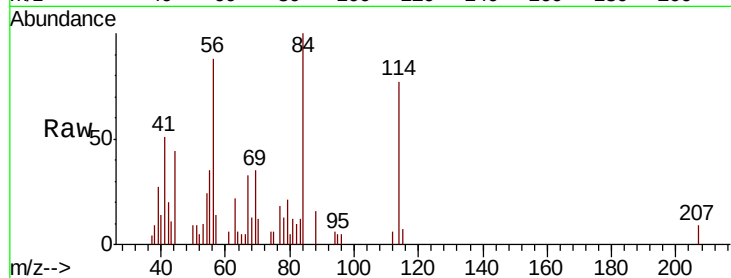
Tot Ion: 84 Resp: 5780

Ion Ratio Lower Upper

84 100

56 0.0 84.6 127.0#

41 83.5 41.1 61.7#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1369

Delta R.T. -0.00 min

Lab File: VL035718.D

Acq: 23 Sep 2020 14:24

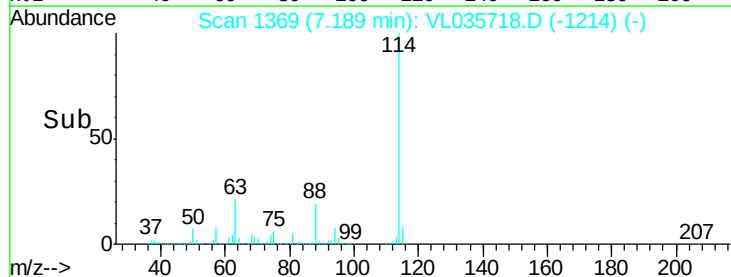
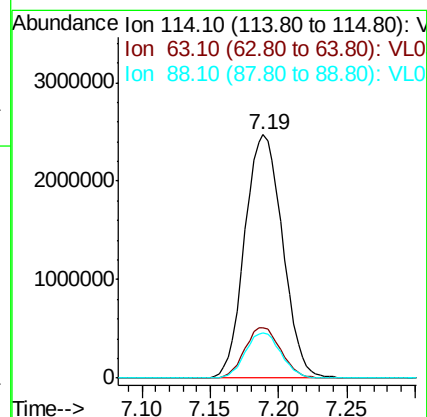
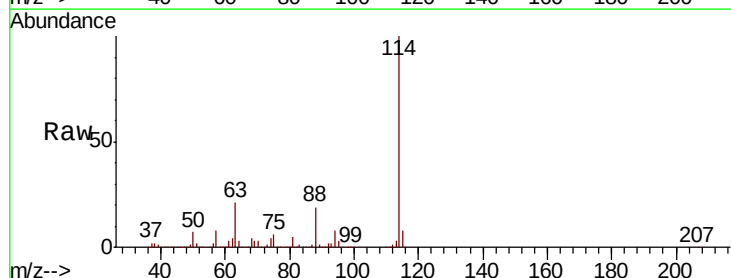
Tgt Ion: 114 Resp: 4752992

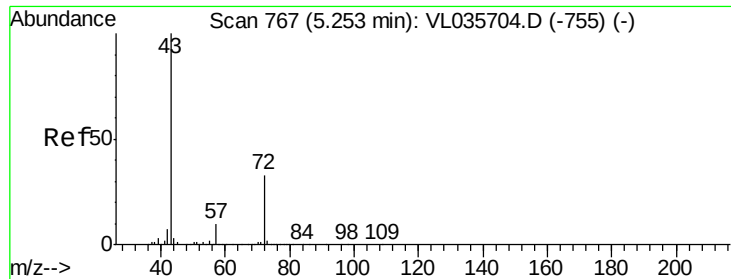
Ion Ratio Lower Upper

114 100

63 20.0 16.1 24.1

88 17.7 14.1 21.1

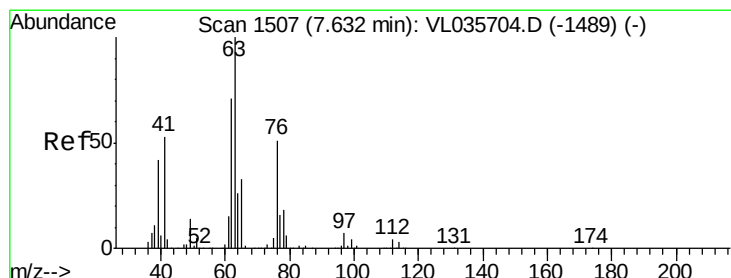
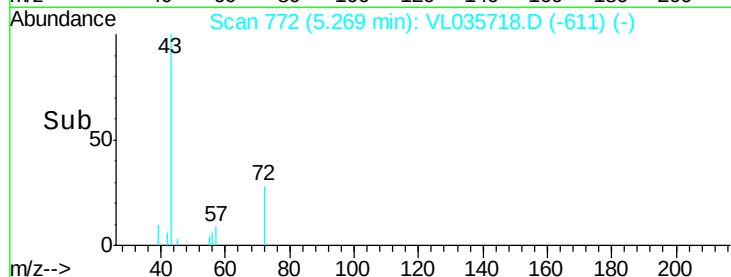
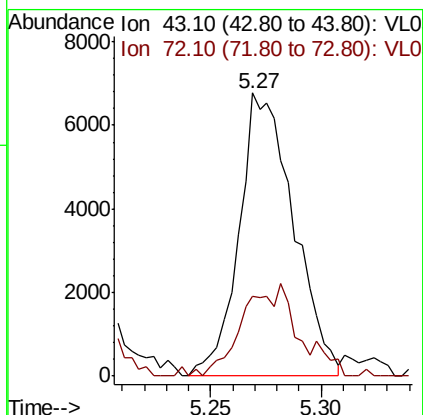
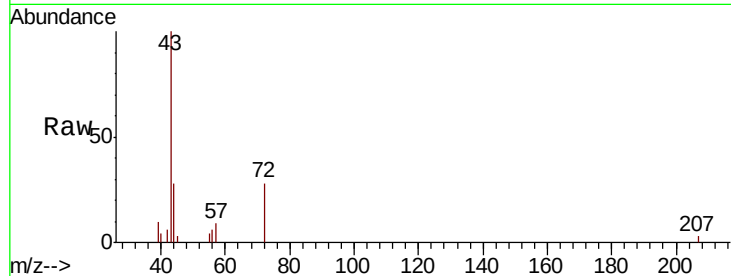




#34
2-Butanone
Concen: 0.074 ppbv
RT: 5.27 min Scan# 772
Delta R.T. 0.02 min
Lab File: VL035718.D
Acq: 23 Sep 2020 14:24

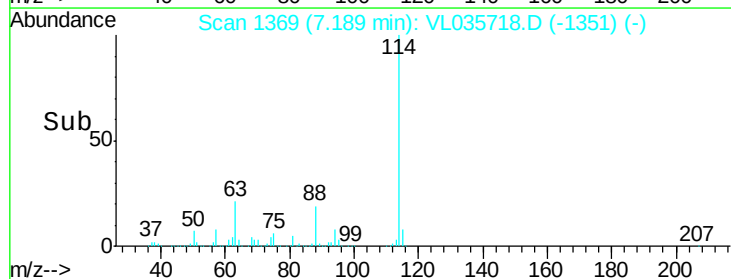
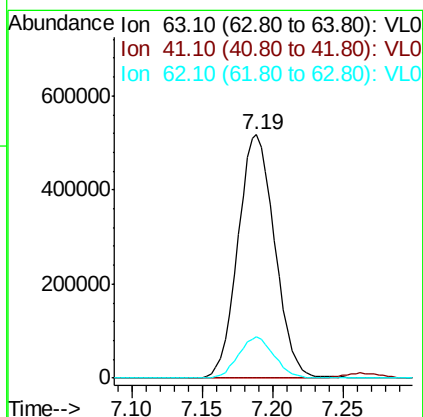
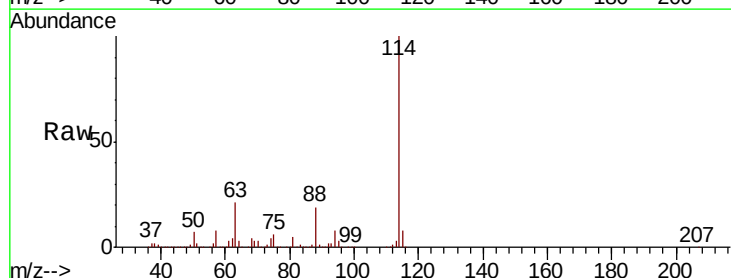
Instrument :
MSVOA_L
ClientSampleId :
B-2DL

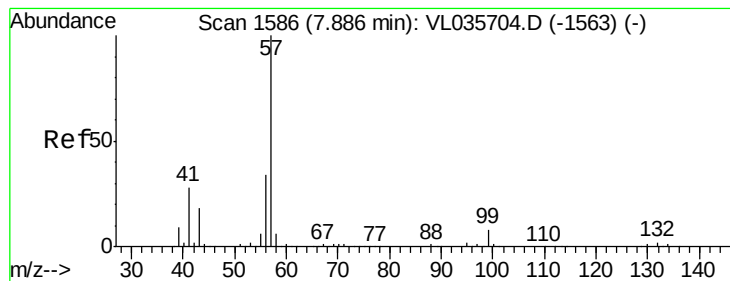
Tot Ion: 43 Resp: 11648
Ion Ratio Lower Upper
43 100
72 34.4 26.1 39.1



#39
1,2-Dichloropropane
Concen: 8.424 ppbv
RT: 7.19 min Scan# 1369
Delta R.T. -0.44 min
Lab File: VL035718.D
Acq: 23 Sep 2020 14:24

Tgt Ion: 63 Resp: 945701
Ion Ratio Lower Upper
63 100
41 0.0 42.6 63.8#
62 16.9 56.5 84.7#





#44

2,2,4-Trimethylpentane

Concen: 0.975 ppbv

RT: 7.89 min Scan# 1587

Delta R.T. 0.00 min

Lab File: VL035718.D

Acq: 23 Sep 2020 14:24

Instrument :

MSVOA_L

ClientSampleId :

B-2DL

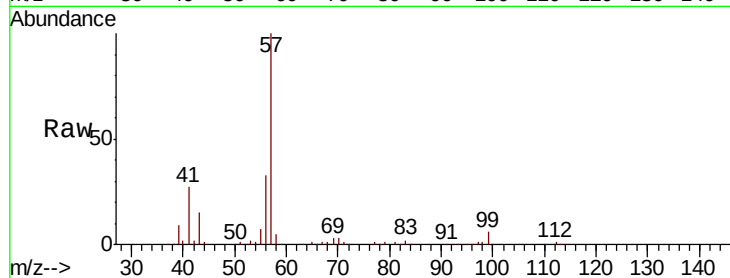
Tot Ion: 57 Resp: 433158

Ion Ratio Lower Upper

57 100

41 29.0 21.2 31.8

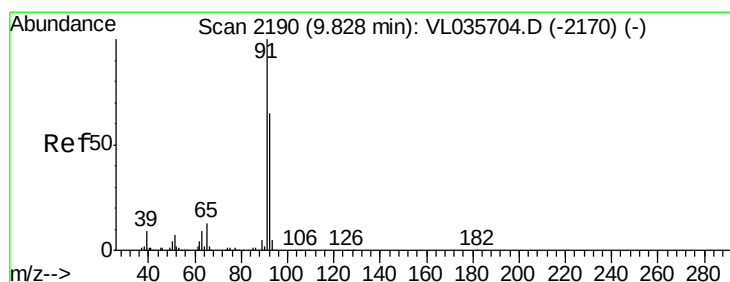
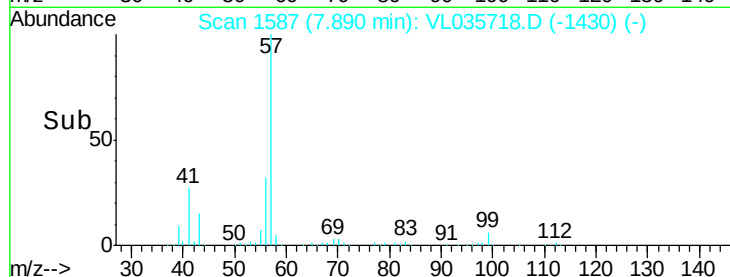
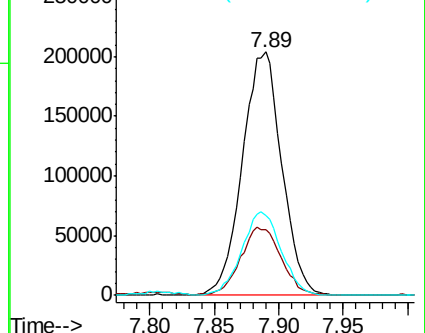
56 34.4 25.8 38.8



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



#53

Toluene

Concen: 0.099 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. -0.00 min

Lab File: VL035718.D

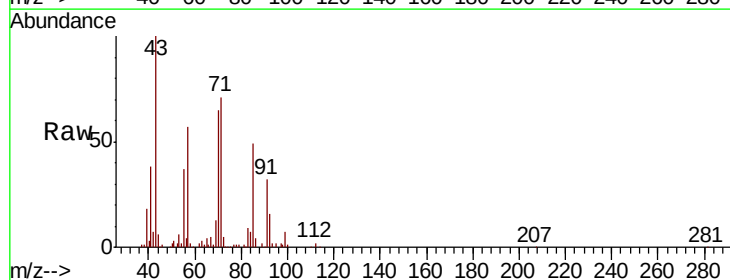
Acq: 23 Sep 2020 14:24

Tgt Ion: 91 Resp: 36059

Ion Ratio Lower Upper

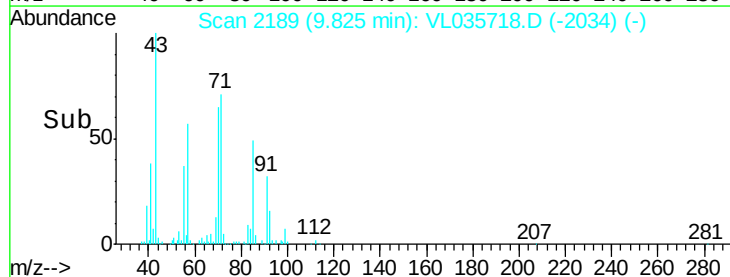
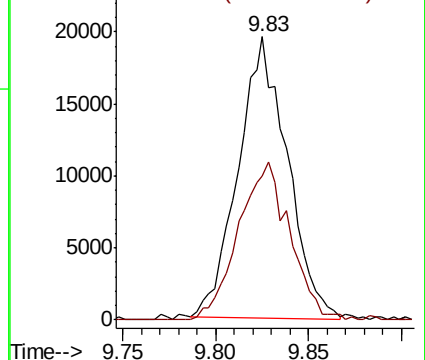
91 100

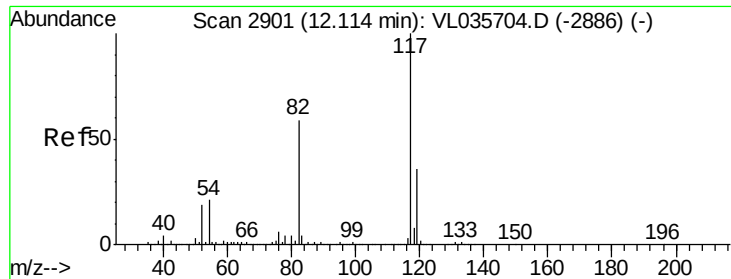
92 58.6 50.0 75.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

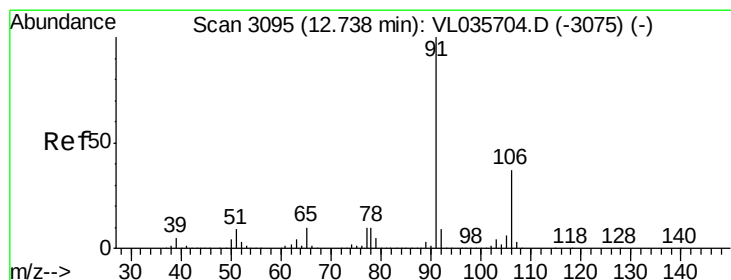
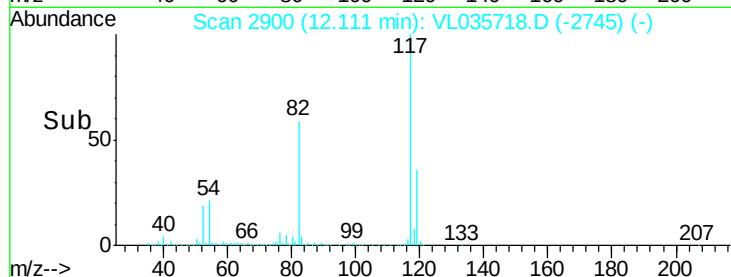
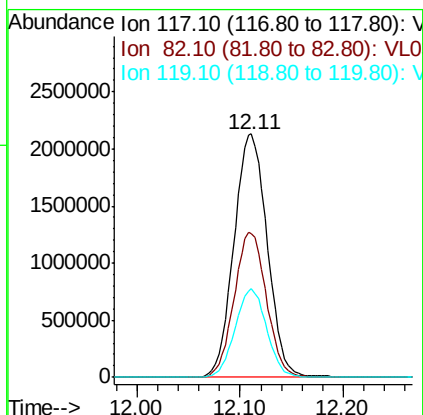
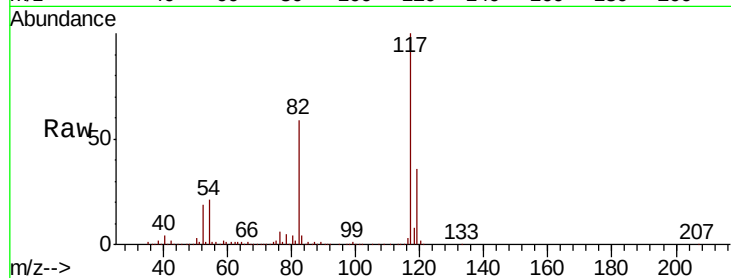




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2900
Delta R.T. -0.00 min
Lab File: VL035718.D
Acq: 23 Sep 2020 14:24

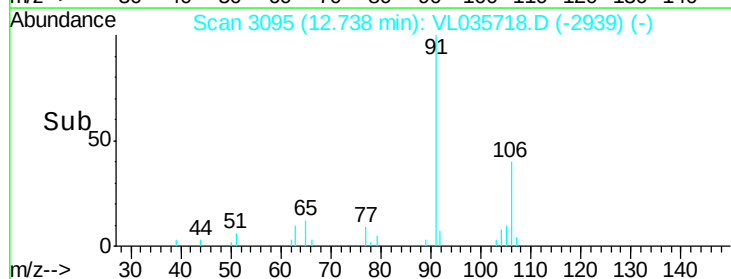
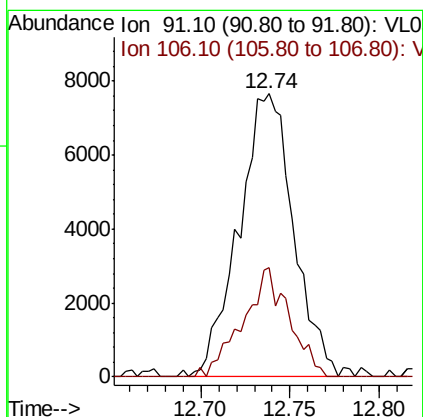
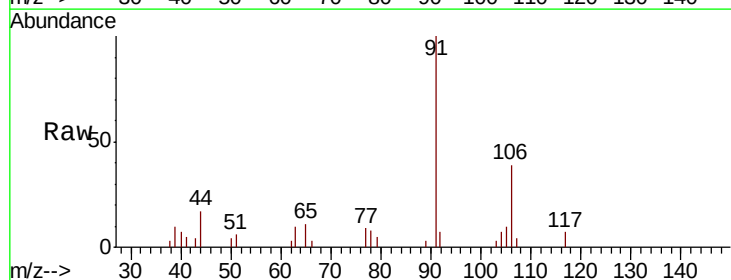
Instrument :
MSVOA_L
ClientSampleId :
B-2DL

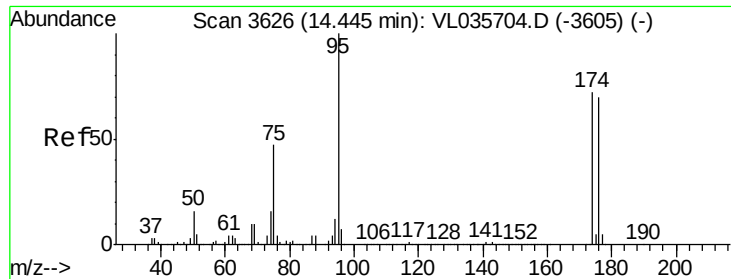
Tot Ion:117 Resp: 4780861
Ion Ratio Lower Upper
117 100
82 58.2 46.1 69.1
119 34.8 28.0 42.0



#58
Ethyl Benzene
Concen: 0.034 ppbv
RT: 12.74 min Scan# 3095
Delta R.T. 0.00 min
Lab File: VL035718.D
Acq: 23 Sep 2020 14:24

Tgt Ion: 91 Resp: 16378
Ion Ratio Lower Upper
91 100
106 38.7 29.7 44.5

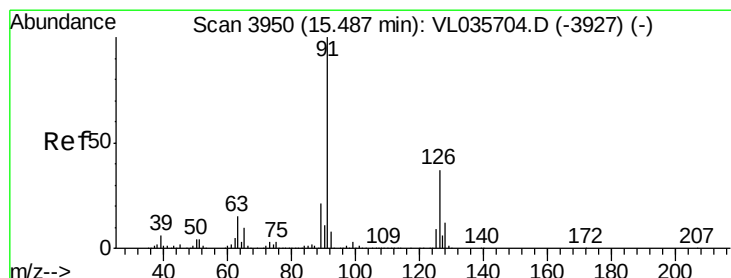
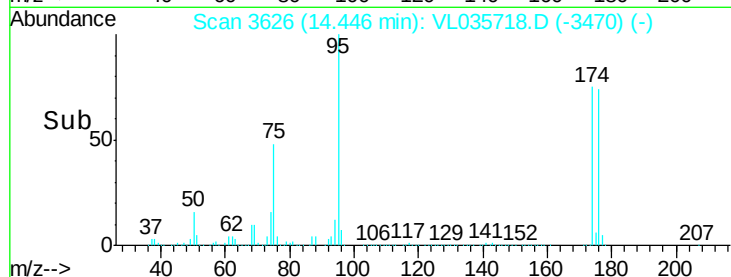
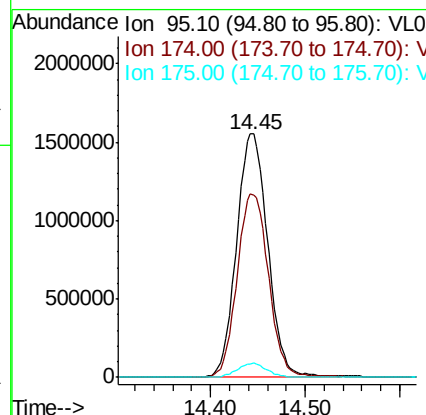
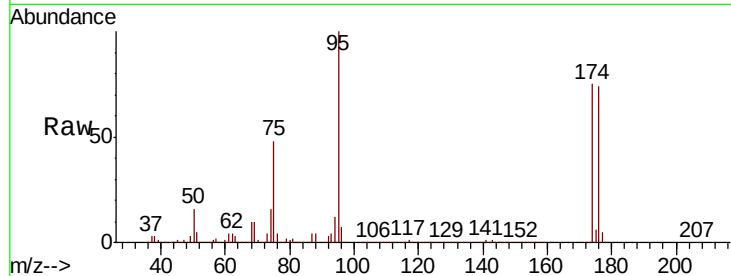




#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.938 ppbv
 RT: 14.45 min Scan# 3626
 Delta R.T. 0.00 min
 Lab File: VL035718.D
 Acq: 23 Sep 2020 14:24

Instrument :
 MSVOA_L
 ClientSampleID :
 B-2DL

Tot Ion: 95 Resp: 3560194
 Ion Ratio Lower Upper
 95 100
 174 76.6 59.6 89.4
 175 5.6 4.2 6.4



#71
 2-Chlorotoluene
 Concen: 0.070 ppbv
 RT: 15.59 min Scan# 3983
 Delta R.T. 0.11 min
 Lab File: VL035718.D
 Acq: 23 Sep 2020 14:24

Tgt Ion: 91 Resp: 33734
 Ion Ratio Lower Upper
 91 100
 126 1.2 14.4 57.4#

