

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090320\
 Data File : VL035534.D
 Acq On : 3 Sep 2020 17:12
 Operator : SY/AP
 Sample : L3898-01DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DL

Quant Time: Sep 04 06:46:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Aug 27 06:46:28 2020
 QLast Update : Thu Aug 27 06:46:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1052706	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	4434332	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	4426422	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	3208553	10.21	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.10%

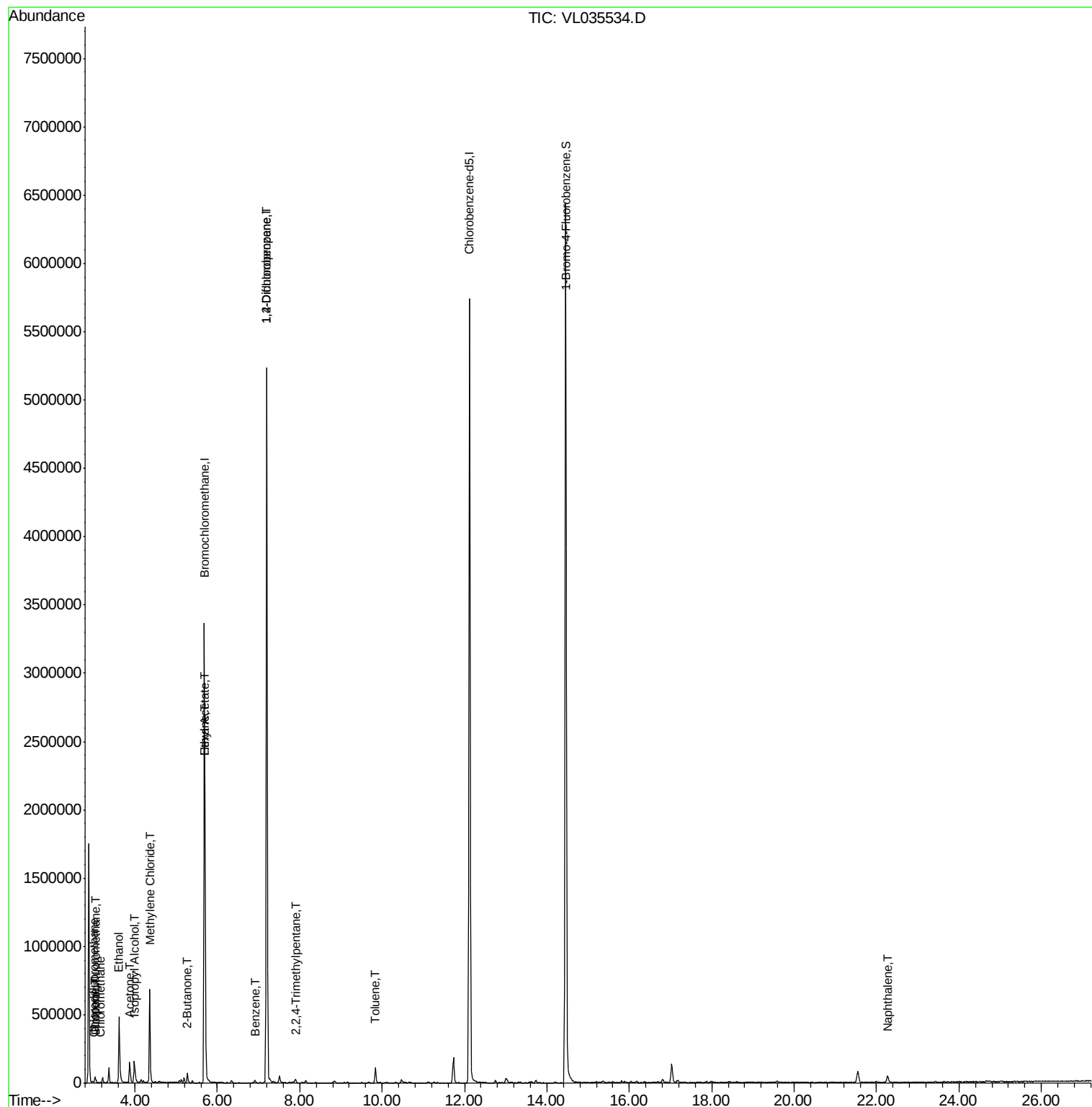
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	13058	0.072	ppbv	98
3) Chlorodifluoromethane	3.00	51	7100	0.061	ppbv	92
4) Chloromethane	3.15	50	4200	0.067	ppbv	100
9) Propene	3.02	41	5682	0.127	ppbv #	14
13) Ethanol	3.61	45	521842	46.891	ppbv	95
15) Acetone	3.87	43	134614	1.159	ppbv	98
19) Isopropyl Alcohol	3.99	45	185190	2.674	ppbv #	95
20) Methylene Chloride	4.36	84	306881	3.549	ppbv	96
25) Ethyl Acetate	5.71	43	77294	0.377	ppbv #	76
26) Hexane	5.71	57	126993	1.093	ppbv #	50
34) 2-Butanone	5.27	43	67086	0.510	ppbv	99
36) Benzene	6.92	78	12536	0.044	ppbv	93
39) 1,2-Dichloropropane	7.20	63	812296	8.377	ppbv #	33
44) 2,2,4-Trimethylpentane	7.90	57	19289	0.051	ppbv #	87
53) Toluene	9.83	91	91565	0.254	ppbv	96
79) Naphthalene	22.27	128	72795	0.132	ppbv #	93

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

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QLast Update : Thu Aug 27 06:46:28 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.00 min

Lab File: VL035534.D

Acq: 3 Sep 2020 17:12

Instrument :

MSVOA_L

ClientSampleID :

IA-1DL

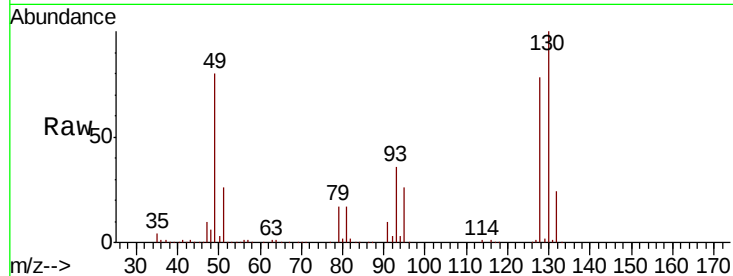
Tot Ion: 49 Resp: 1052706

Ion Ratio Lower Upper

49 100

128 96.2 50.0 150.1

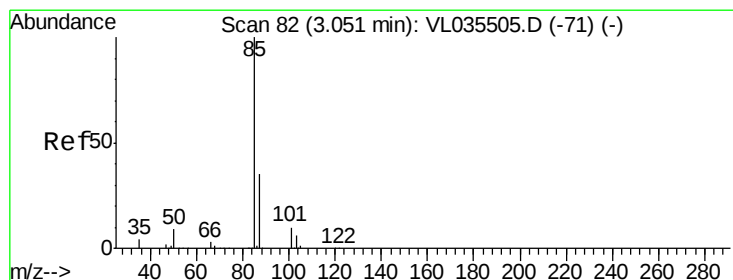
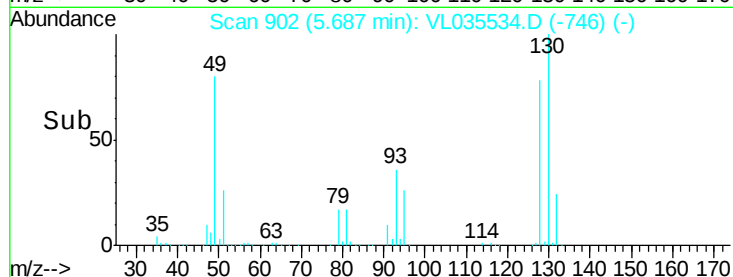
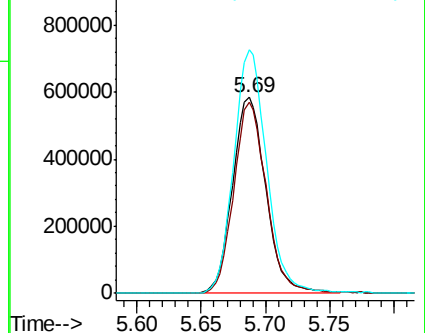
130 123.7 64.4 193.2



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



#2

Dichlorodifluoromethane

Concen: 0.072 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.01 min

Lab File: VL035534.D

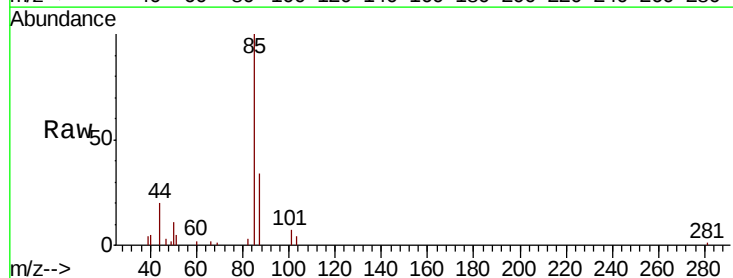
Acq: 3 Sep 2020 17:12

Tgt Ion: 85 Resp: 13058

Ion Ratio Lower Upper

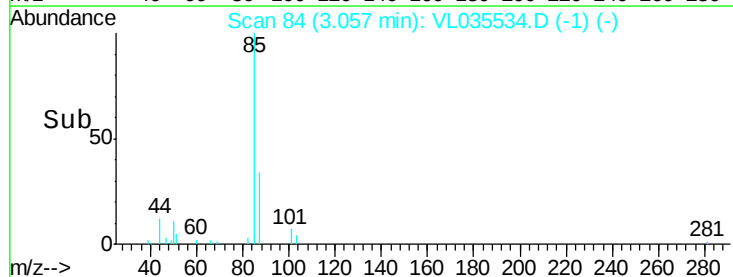
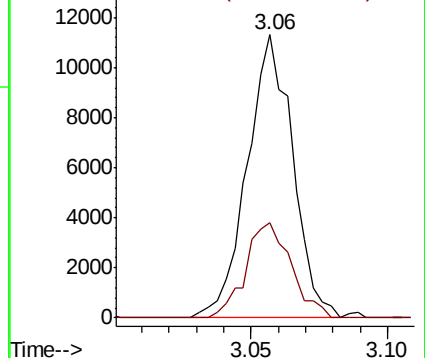
85 100

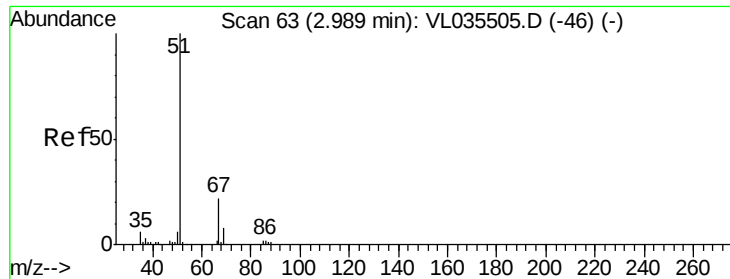
87 33.6 28.0 42.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.061 ppbv

RT: 3.00 min Scan# 66

Delta R.T. 0.01 min

Lab File: VL035534.D

Acq: 3 Sep 2020 17:12

Instrument :

MSVOA_L

ClientSampled :

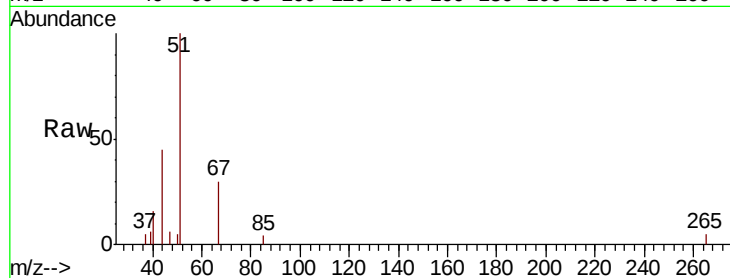
IA-1DL

Tot Ion: 51 Resp: 7100

Ion Ratio Lower Upper

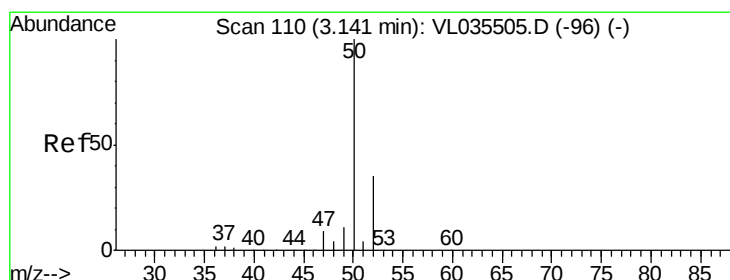
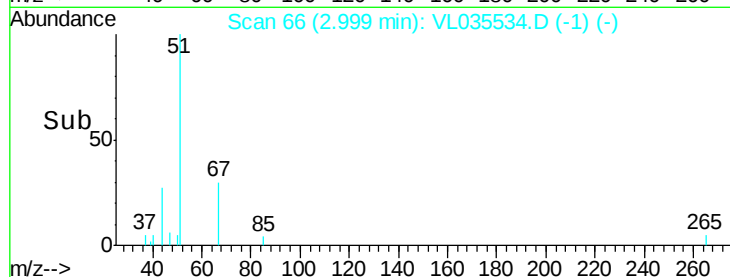
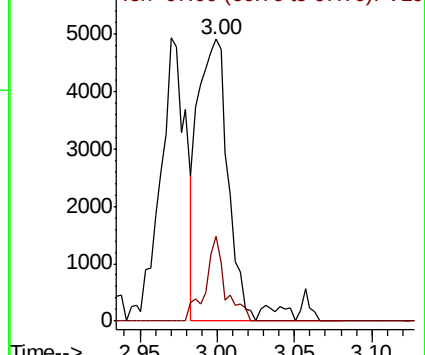
51 100

67 18.4 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: 0.067 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.01 min

Lab File: VL035534.D

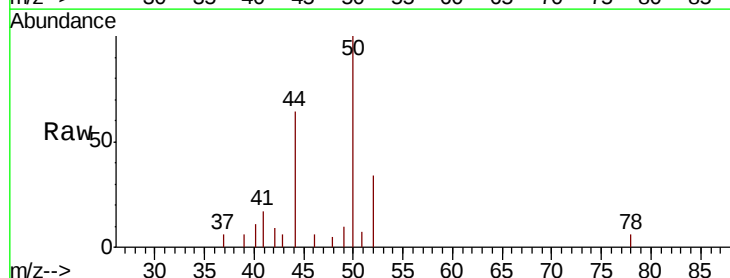
Acq: 3 Sep 2020 17:12

Tgt Ion: 50 Resp: 4200

Ion Ratio Lower Upper

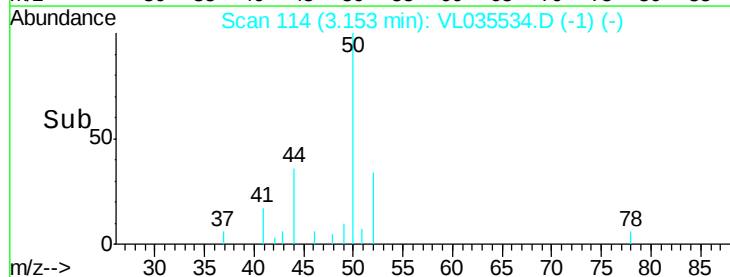
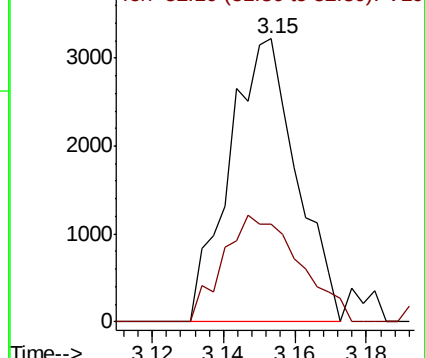
50 100

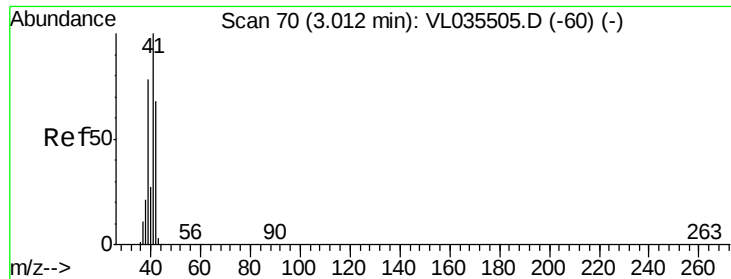
52 34.3 27.7 41.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.127 ppbv

RT: 3.02 min Scan# 74

Delta R.T. 0.01 min

Lab File: VL035534.D

Acq: 3 Sep 2020 17:12

Instrument :

MSVOA_L

ClientSampleId :

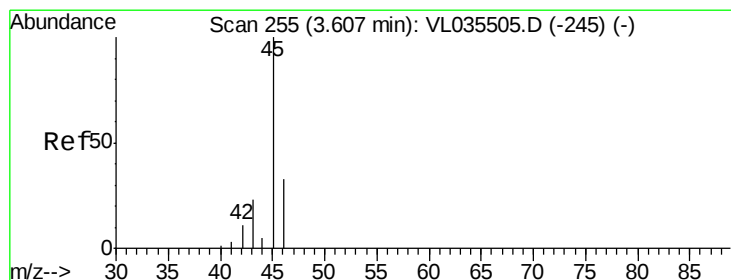
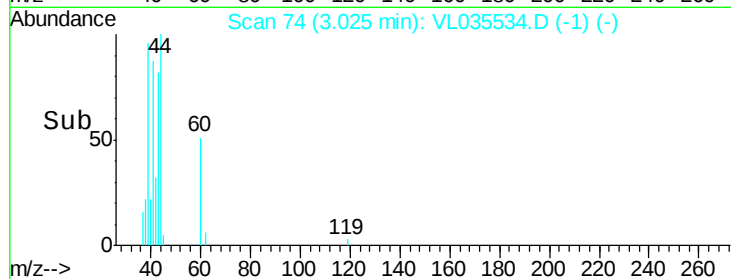
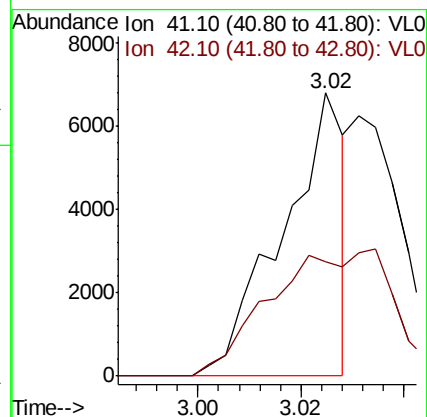
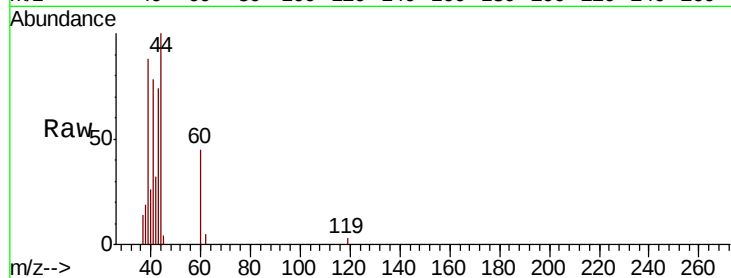
IA-1DL

Tot Ion: 41 Resp: 5682

Ion Ratio Lower Upper

41 100

42 0.0 56.3 84.5#



#13

Ethanol

Concen: 46.891 ppbv

RT: 3.61 min Scan# 257

Delta R.T. 0.01 min

Lab File: VL035534.D

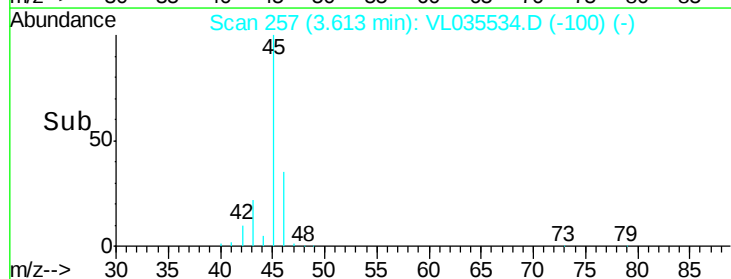
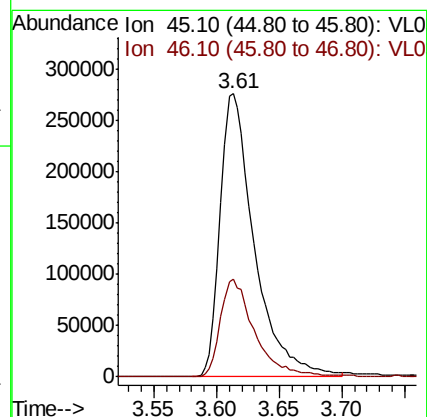
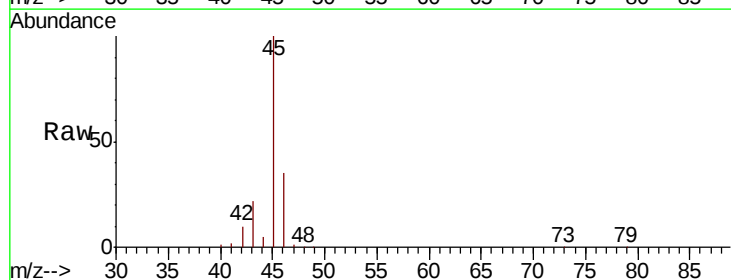
Acq: 3 Sep 2020 17:12

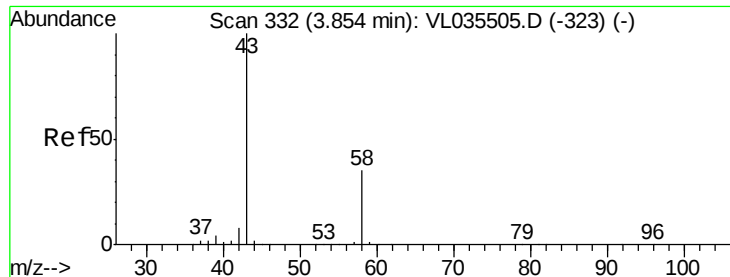
Tgt Ion: 45 Resp: 521842

Ion Ratio Lower Upper

45 100

46 34.9 15.2 60.6





#15

Acetone

Concen: 1.159 ppbv

RT: 3.87 min Scan# 337

Delta R.T. 0.02 min

Lab File: VL035534.D

Acq: 3 Sep 2020 17:12

Instrument :

MSVOA_L

ClientSampleId :

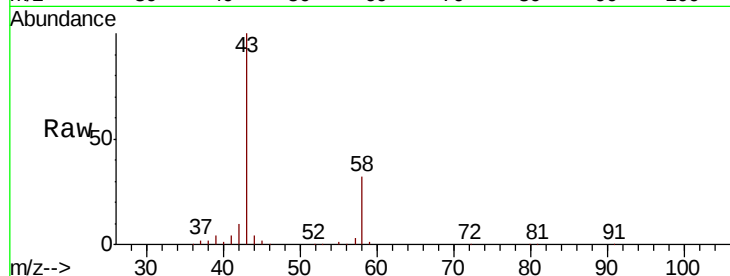
IA-1DL

Tot Ion: 43 Resp: 134614

Ion Ratio Lower Upper

43 100

58 36.5 28.4 42.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.87

80000

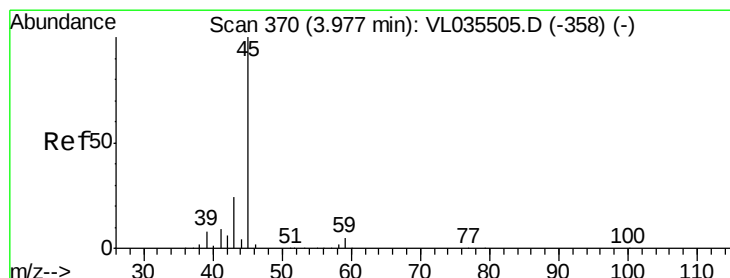
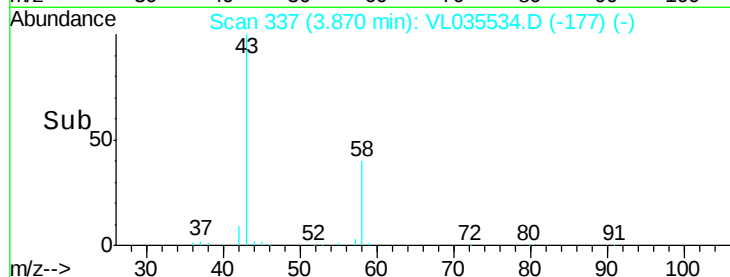
60000

40000

20000

0

Time-->



#19

Isopropyl Alcohol

Concen: 2.674 ppbv

RT: 3.99 min Scan# 373

Delta R.T. 0.01 min

Lab File: VL035534.D

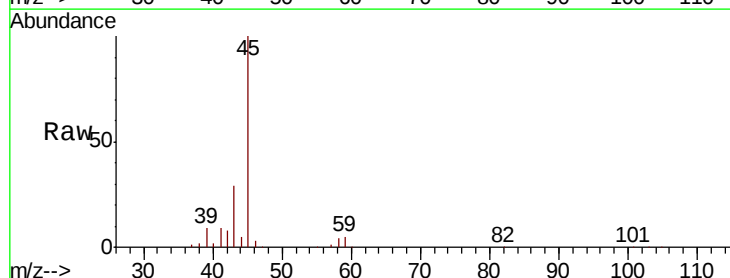
Acq: 3 Sep 2020 17:12

Tgt Ion: 45 Resp: 185190

Ion Ratio Lower Upper

45 100

58 4.2 2.0 3.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.99

100000

80000

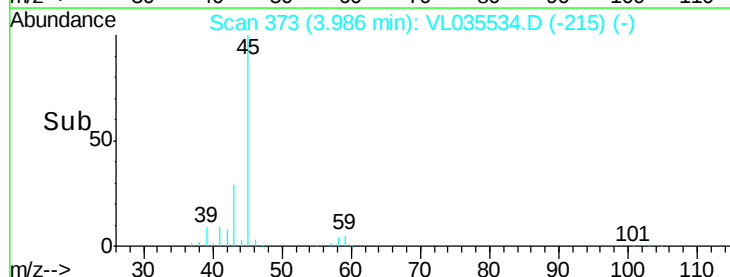
60000

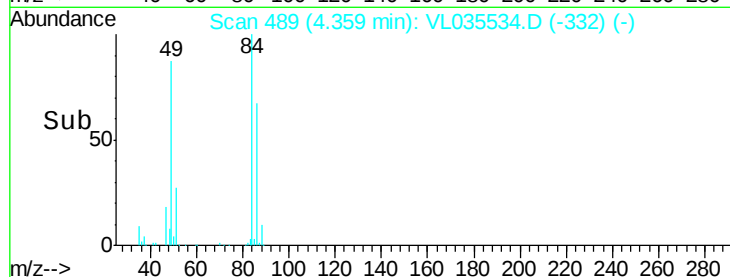
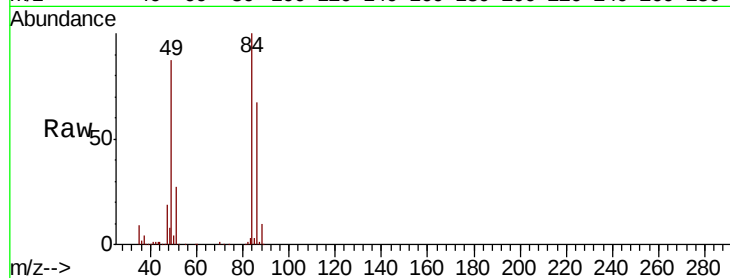
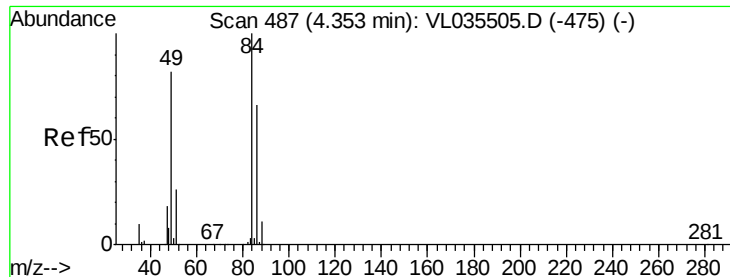
40000

20000

0

Time-->

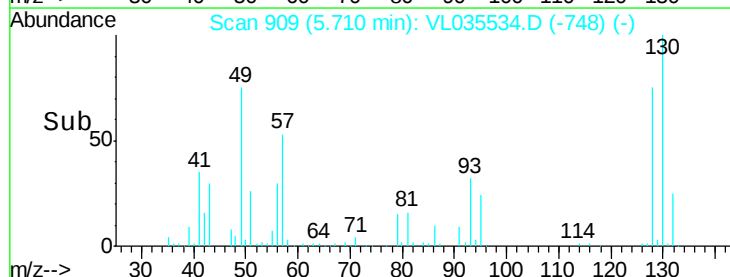
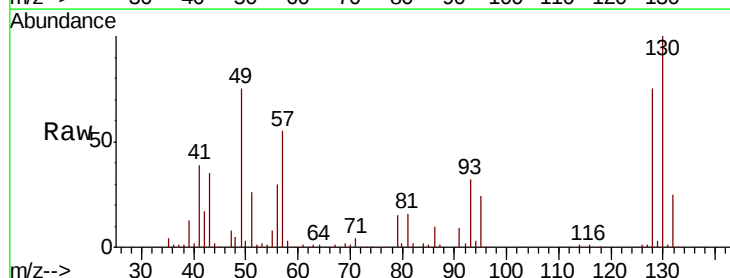
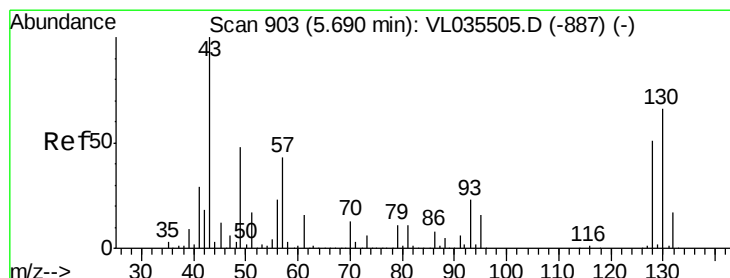
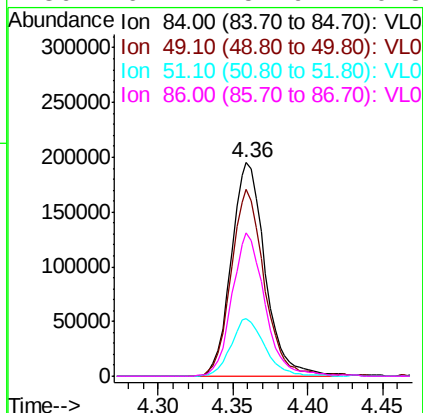




#20
Methvlene Chloride
Concen: 3.549 ppbv
RT: 4.36 min Scan# 489
Delta R.T. 0.01 min
Lab File: VL035534.D
Acq: 3 Sep 2020 17:12

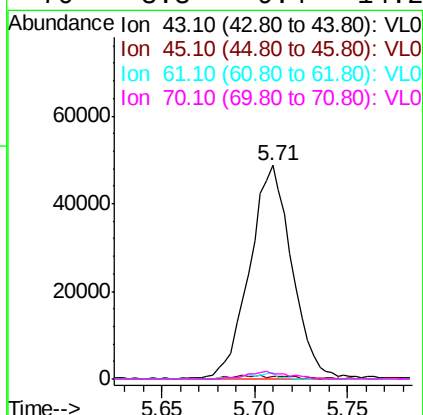
Instrument :
MSVOA_L
ClientSampleId :
IA-1DL

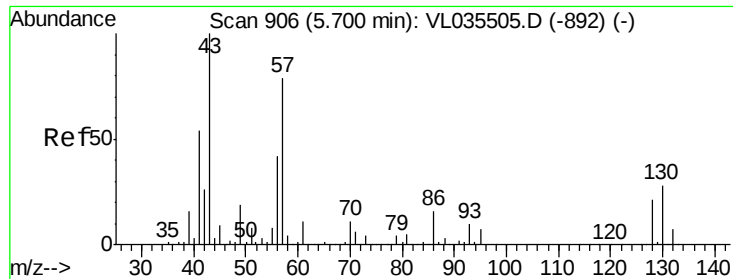
Tot Ion:	84	Resp:	306881
Ion	Ratio	Lower	Upper
84	100		
49	87.3	65.4	98.0
51	26.9	21.5	32.3
86	67.4	52.9	79.3



#25
Ethyl Acetate
Concen: 0.377 ppbv
RT: 5.71 min Scan# 909
Delta R.T. 0.02 min
Lab File: VL035534.D
Acq: 3 Sep 2020 17:12

Tgt Ion:	43	Resp:	77294
Ion	Ratio	Lower	Upper
43	100		
45	2.6	8.4	12.6#
61	2.0	10.6	16.0#
70	3.3	9.4	14.2#

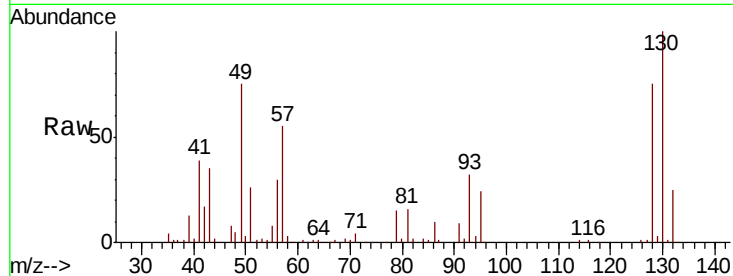




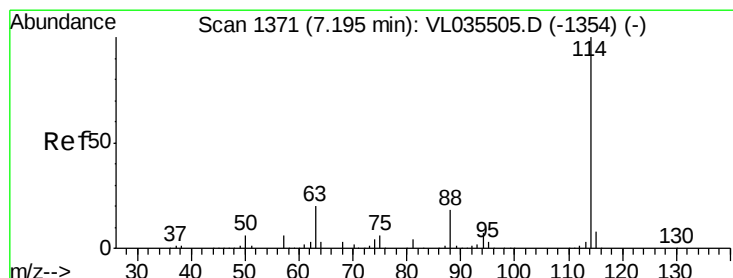
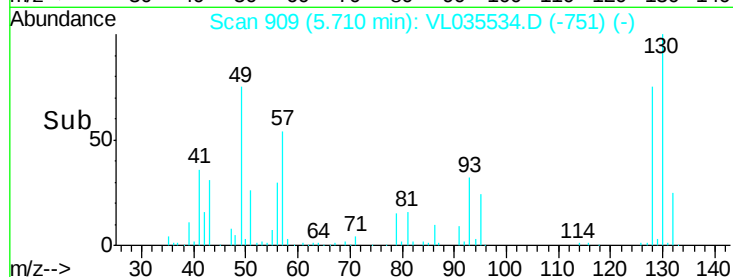
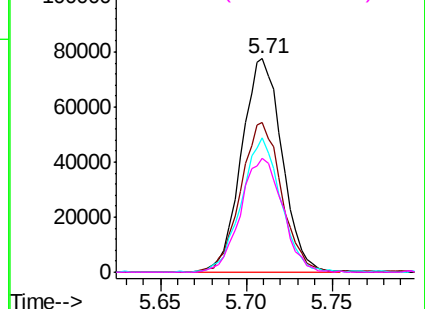
#26
Hexane
Concen: 1.093 ppbv
RT: 5.71 min Scan# 909
Delta R.T. 0.01 min
Lab File: VL035534.D
Acq: 3 Sep 2020 17:12

Instrument :
MSVOA_L
ClientSampleId :
IA-1DL

Tot Ion: 57 Resp: 126993
Ion Ratio Lower Upper
57 100
41 71.5 55.9 83.9
43 61.9 141.8 212.8#
56 55.1 41.8 62.8

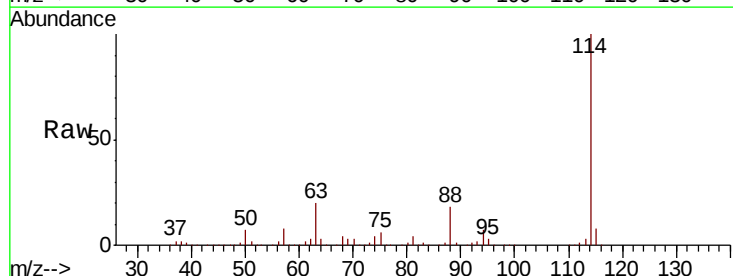


Abundance Ion 57.10 (56.80 to 57.80): VL0
120000 Ion 41.10 (40.80 to 41.80): VL0
100000 Ion 43.10 (42.80 to 43.80): VL0
80000 Ion 56.10 (55.80 to 56.80): VL0

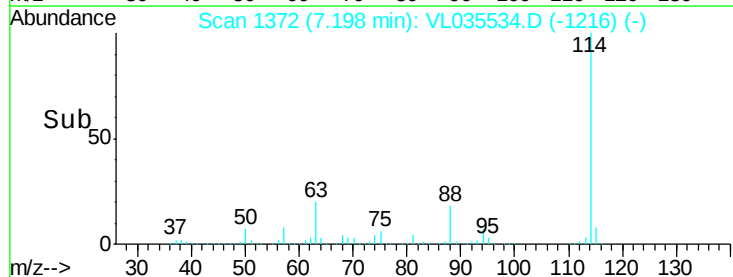
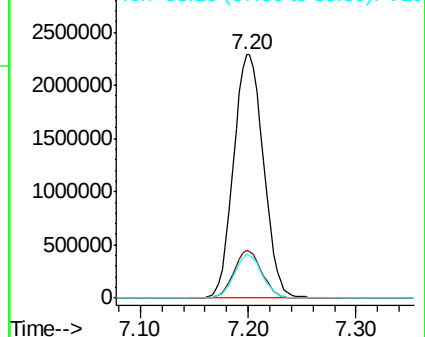


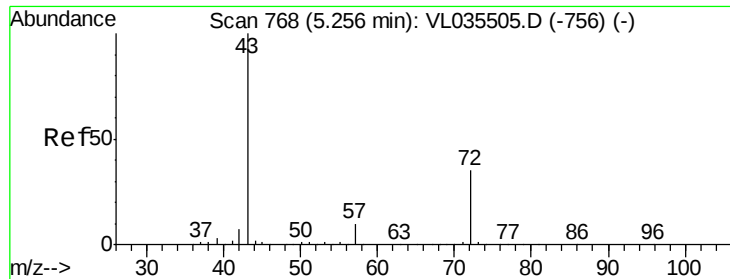
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.20 min Scan# 1372
Delta R.T. 0.00 min
Lab File: VL035534.D
Acq: 3 Sep 2020 17:12

Tgt Ion: 114 Resp: 4434332
Ion Ratio Lower Upper
114 100
63 18.4 14.7 22.1
88 16.7 13.4 20.2



Abundance Ion 114.10 (113.80 to 114.80): V
3000000 Ion 63.10 (62.80 to 63.80): VL0
2500000 Ion 88.10 (87.80 to 88.80): VL0

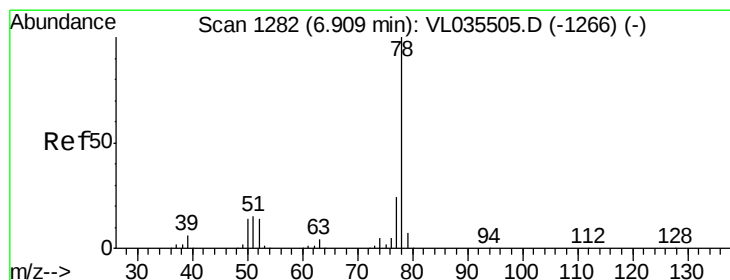
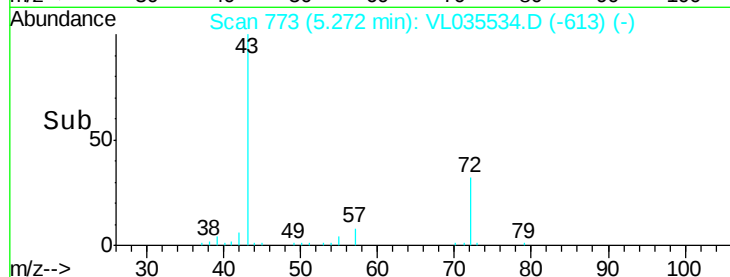
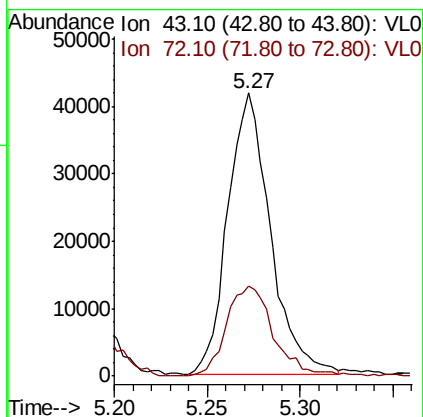
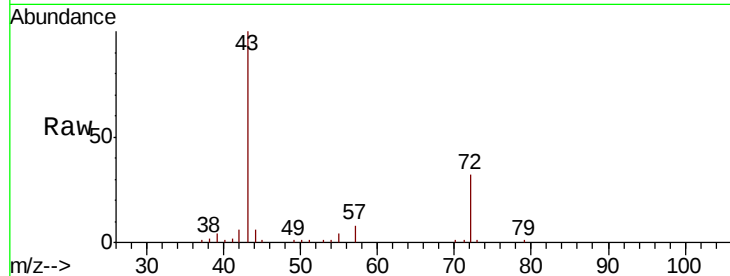




#34
2-Butanone
Concen: 0.510 ppbv
RT: 5.27 min Scan# 773
Delta R.T. 0.02 min
Lab File: VL035534.D
Acq: 3 Sep 2020 17:12

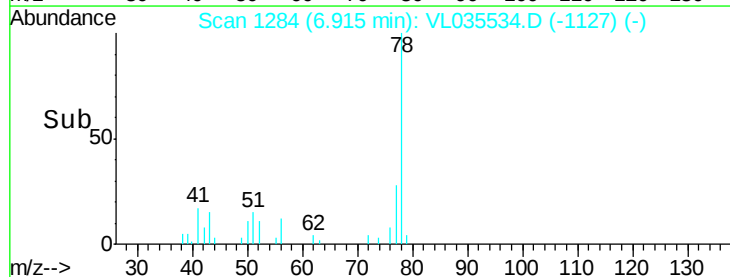
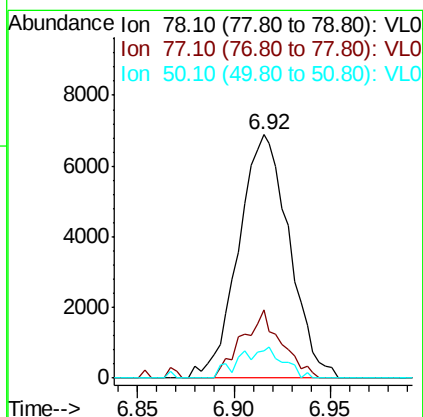
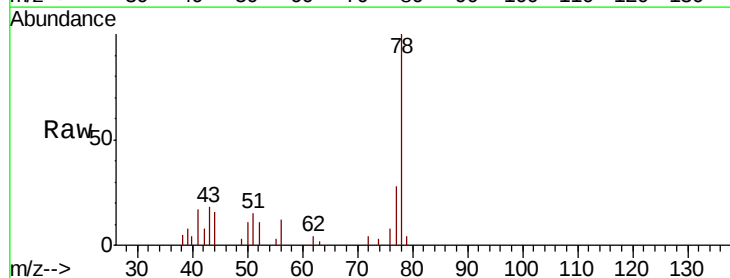
Instrument :
MSVOA_L
ClientSampleId :
IA-1DL

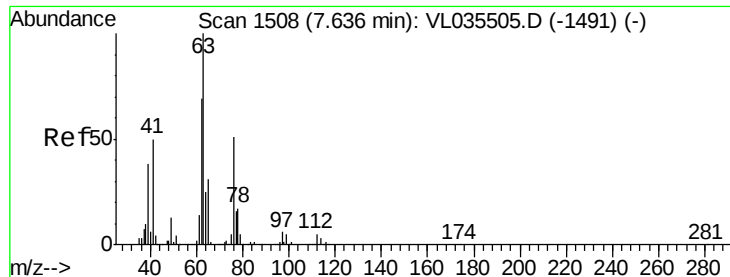
Tot Ion: 43 Resp: 67086
Ion Ratio Lower Upper
43 100
72 35.4 27.7 41.5



#36
Benzene
Concen: 0.044 ppbv
RT: 6.92 min Scan# 1284
Delta R.T. 0.01 min
Lab File: VL035534.D
Acq: 3 Sep 2020 17:12

Tgt Ion: 78 Resp: 12536
Ion Ratio Lower Upper
78 100
77 28.0 19.3 28.9
50 11.2 11.0 16.6





#39

1,2-Dichloropropane

Concen: 8.377 ppbv

RT: 7.20 min Scan# 1372

Delta R.T. -0.44 min

Lab File: VL035534.D

Acq: 3 Sep 2020 17:12

Instrument :

MSVOA_L

ClientSampleId :

IA-1DL

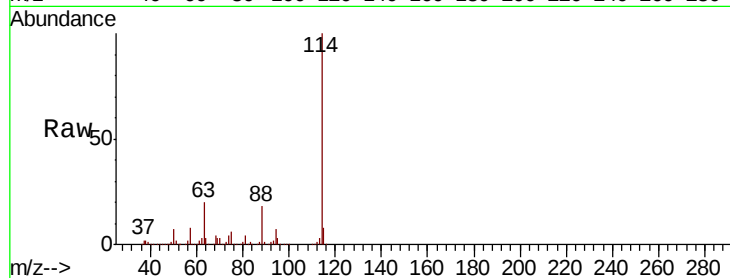
Tot Ion: 63 Resp: 812296

Ion Ratio Lower Upper

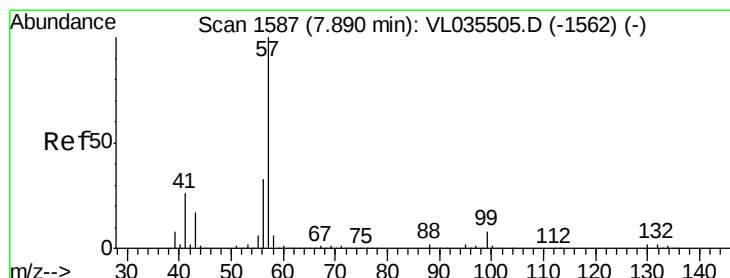
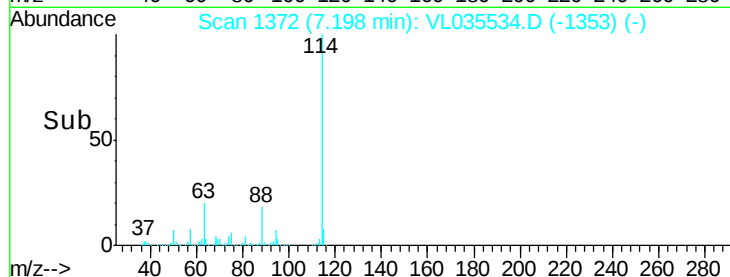
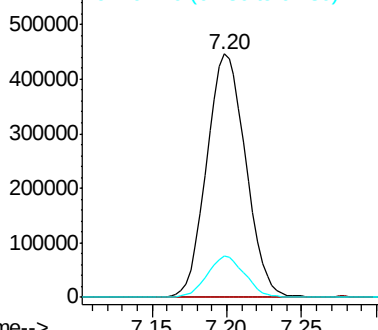
63 100

41 0.0 40.0 60.0#

62 17.2 55.4 83.0#



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.051 ppbv

RT: 7.90 min Scan# 1589

Delta R.T. 0.01 min

Lab File: VL035534.D

Acq: 3 Sep 2020 17:12

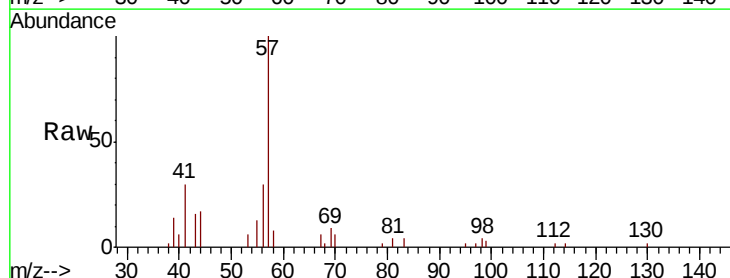
Tgt Ion: 57 Resp: 19289

Ion Ratio Lower Upper

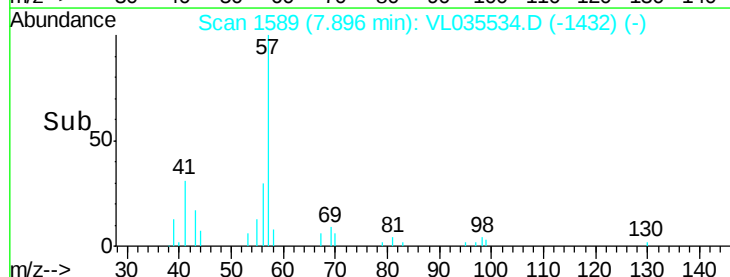
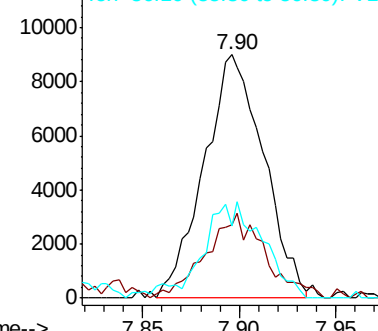
57 100

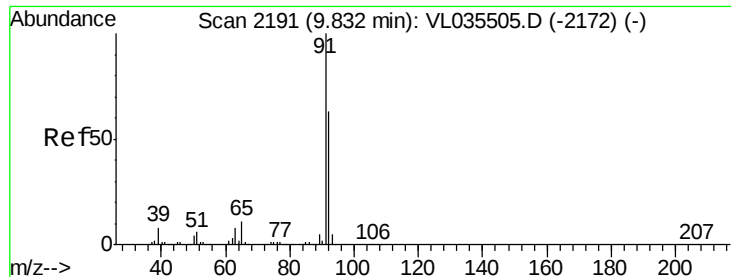
41 31.2 20.5 30.7#

56 39.5 25.3 37.9#



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: 0.254 ppbv

RT: 9.83 min Scan# 2192

Delta R.T. 0.00 min

Lab File: VL035534.D

Acq: 3 Sep 2020 17:12

Instrument :

MSVOA_L

ClientSampleId :

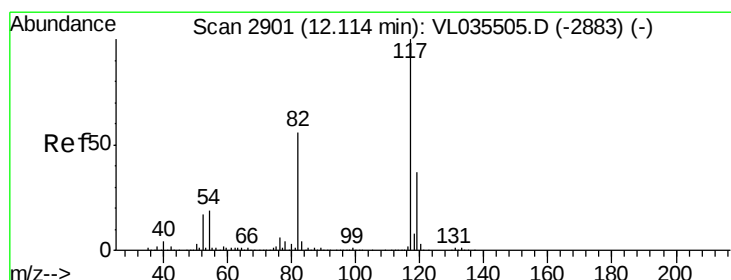
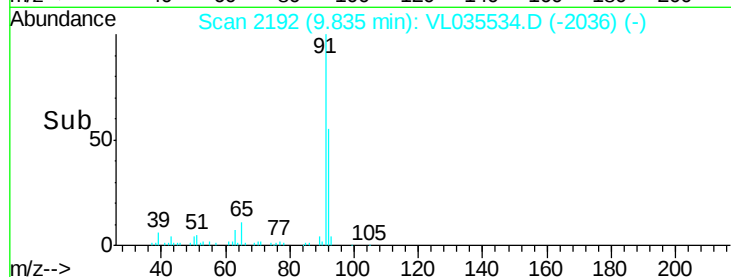
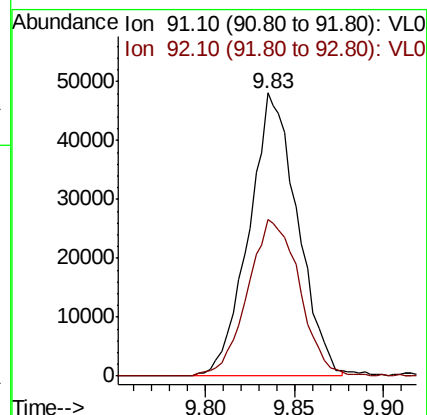
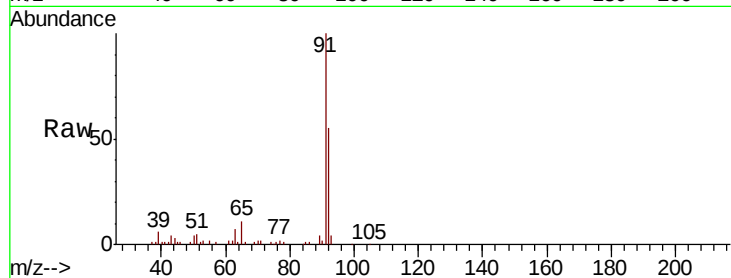
IA-1DL

Tot Ion: 91 Resp: 91565

Ion Ratio Lower Upper

91 100

92 59.0 49.8 74.8



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.12 min Scan# 2903

Delta R.T. 0.01 min

Lab File: VL035534.D

Acq: 3 Sep 2020 17:12

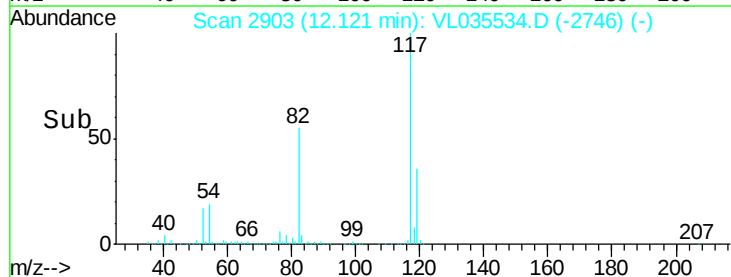
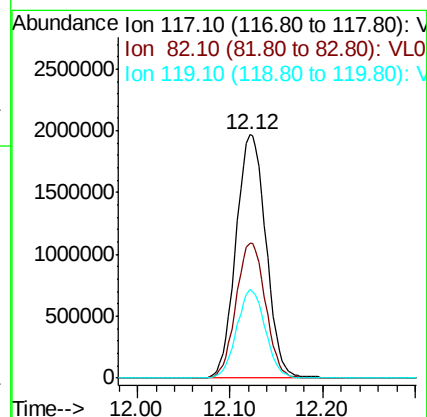
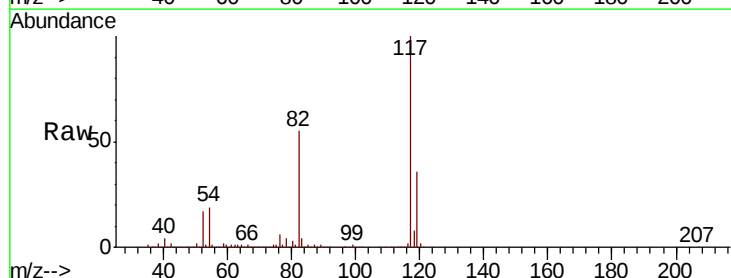
Tgt Ion: 117 Resp: 4426422

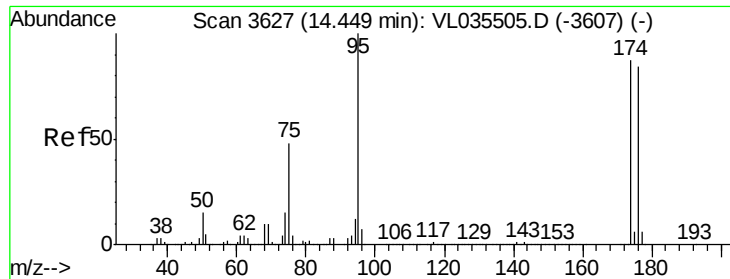
Ion Ratio Lower Upper

117 100

82 54.7 41.6 62.4

119 34.8 29.3 43.9

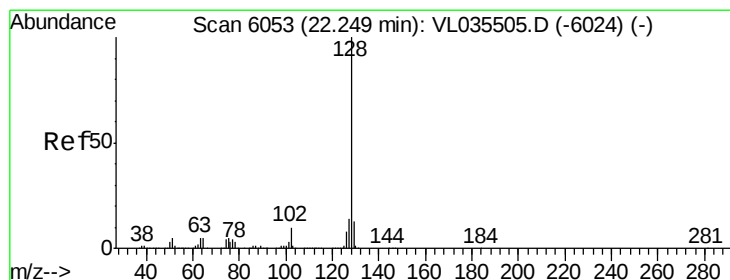
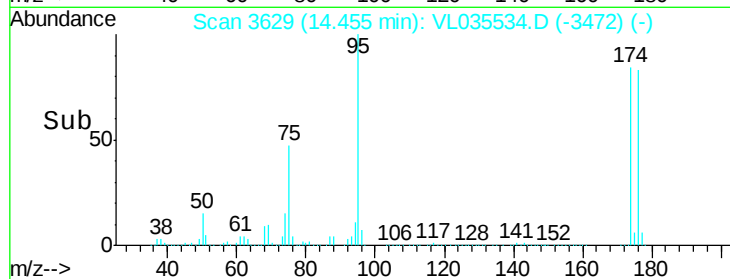
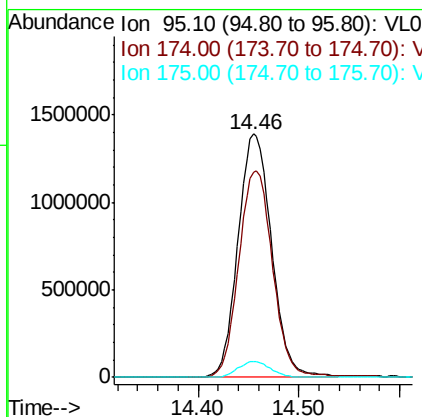
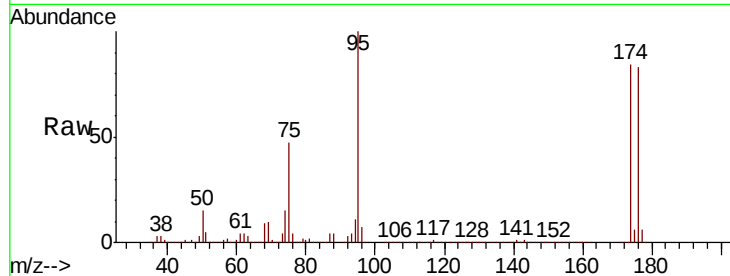




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.207 ppbv
 RT: 14.46 min Scan# 3629
 Delta R.T. 0.01 min
 Lab File: VL035534.D
 Acq: 3 Sep 2020 17:12

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DL

Tot Ion: 95 Resp: 3208553
 Ion Ratio Lower Upper
 95 100
 174 86.5 69.6 104.4
 175 6.3 5.1 7.7



#79
 Naphthalene
 Concen: 0.132 ppbv
 RT: 22.27 min Scan# 6058
 Delta R.T. 0.02 min
 Lab File: VL035534.D
 Acq: 3 Sep 2020 17:12

Tgt Ion: 128 Resp: 72795
 Ion Ratio Lower Upper
 128 100
 127 13.5 11.4 17.2
 129 8.1 10.5 15.7#

