

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090820\
 Data File : VL035564.D
 Acq On : 8 Sep 2020 20:14
 Operator : SY/AP
 Sample : L3898-05DL2 80X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-5DL2

Quant Time: Sep 09 02:38:09 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	5.66	49	1126291	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.17	114	4626536	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.09	117	4760075	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	3514899	10.40	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.00%

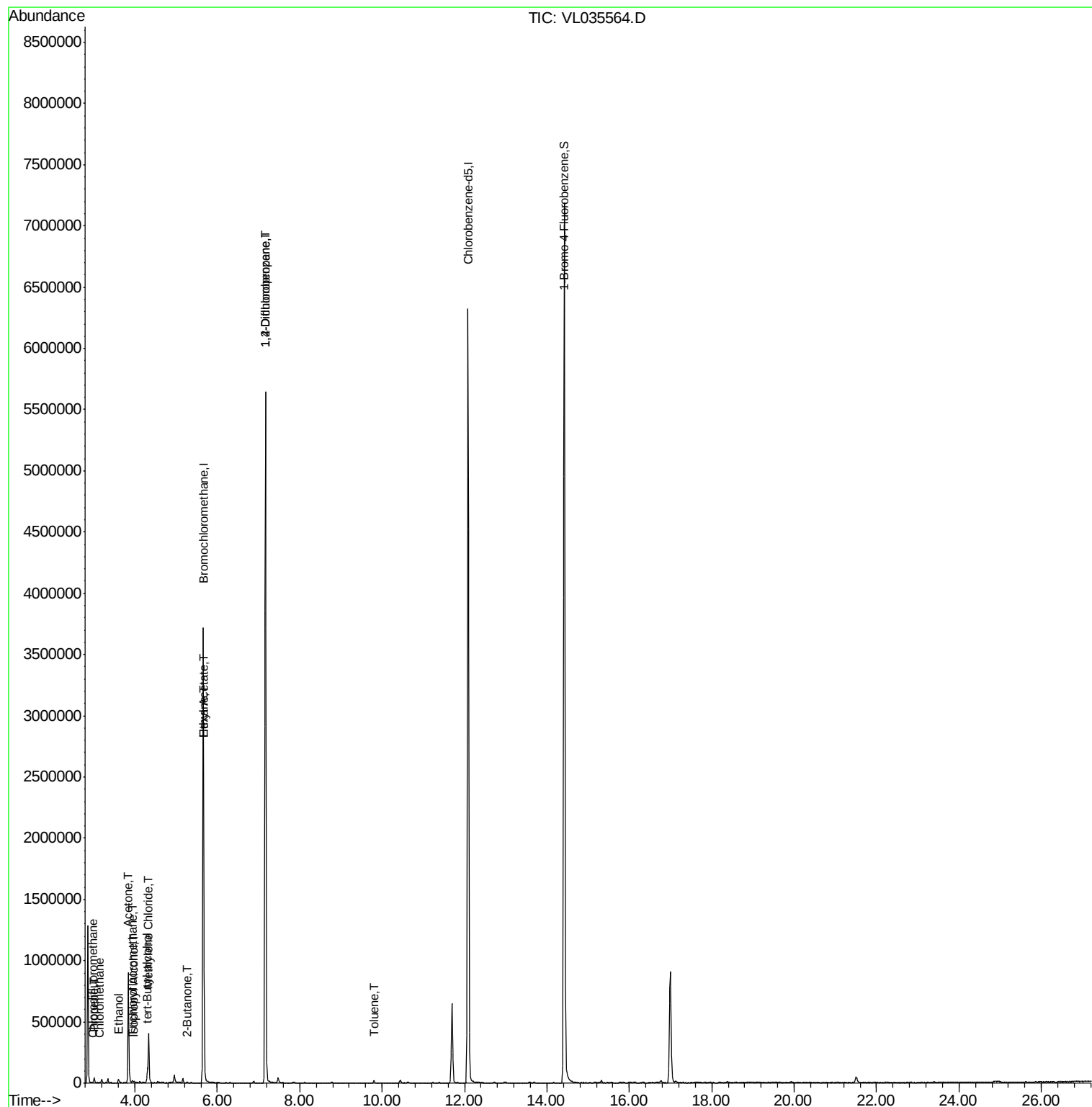
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.97	51	4884	0.039	ppbv #	74
4) Chloromethane	3.13	50	2192	0.033	ppbv #	77
9) Propene	3.01	41	10640	0.222	ppbv #	77
11) Trichlorofluoromethane	3.94	101	11020	0.039	ppbv	94
13) Ethanol	3.60	45	28220	2.370	ppbv	99
15) Acetone	3.84	43	859735	6.921	ppbv	99
17) tert-Butyl alcohol	4.30	59	15178	0.100	ppbv #	80
19) Isopropyl Alcohol	3.98	45	6839	0.092	ppbv #	93
20) Methylene Chloride	4.33	84	180918	1.955	ppbv	98
25) Ethyl Acetate	5.68	43	28168	0.128	ppbv #	74
26) Hexane	5.68	57	45566	0.366	ppbv #	47
34) 2-Butanone	5.26	43	4633	0.034	ppbv #	79
39) 1,2-Dichloropropane	7.17	63	862696	8.527	ppbv #	32
53) Toluene	9.80	91	16742	0.044	ppbv	91

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
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QLast Update : Thu Aug 27 06:46:28 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.03 min

Lab File: VL035564.D

Acq: 8 Sep 2020 20:14

Instrument :

MSVOA_L

ClientSampleId :

IA-5DL2

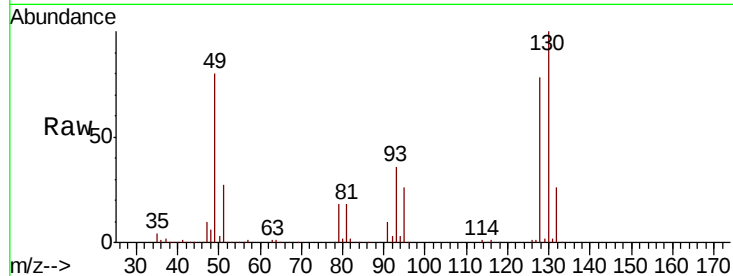
Tot Ion: 49 Resp: 1126291

Ion Ratio Lower Upper

49 100

128 96.2 50.0 150.1

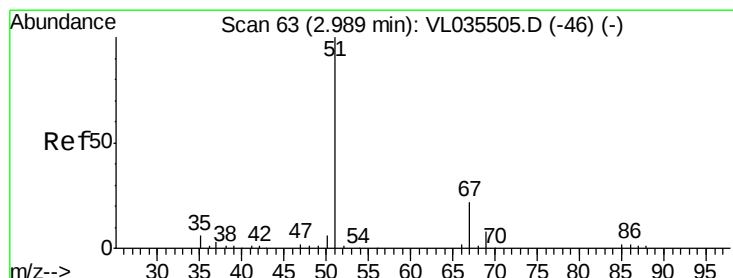
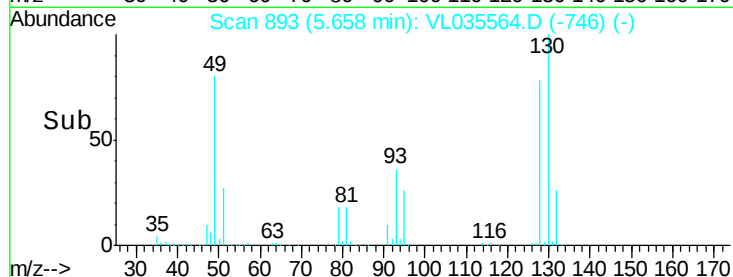
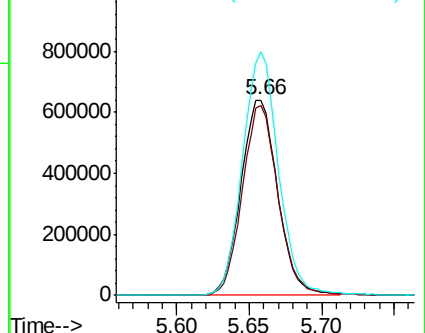
130 123.1 64.4 193.2



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



#3

Chlorodifluoromethane

Concen: 0.039 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.02 min

Lab File: VL035564.D

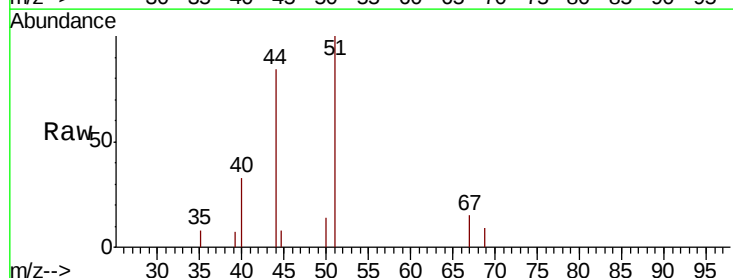
Acq: 8 Sep 2020 20:14

Tgt Ion: 51 Resp: 4884

Ion Ratio Lower Upper

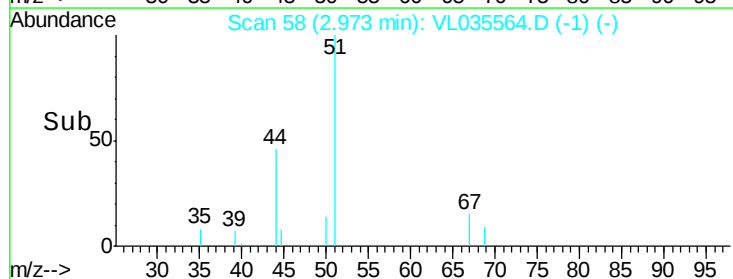
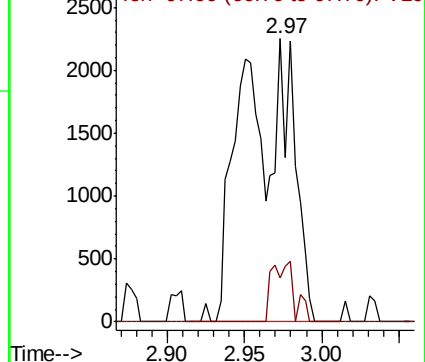
51 100

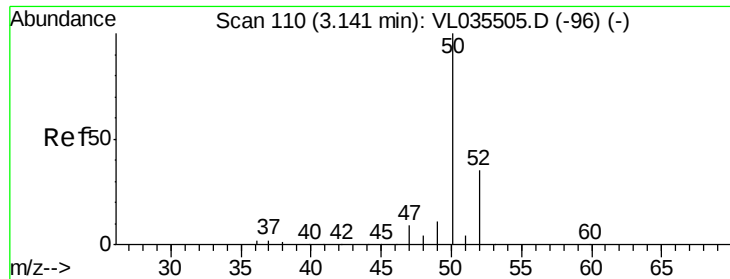
67 9.9 17.8 26.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

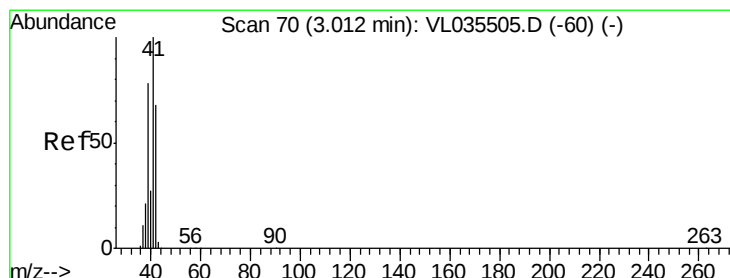
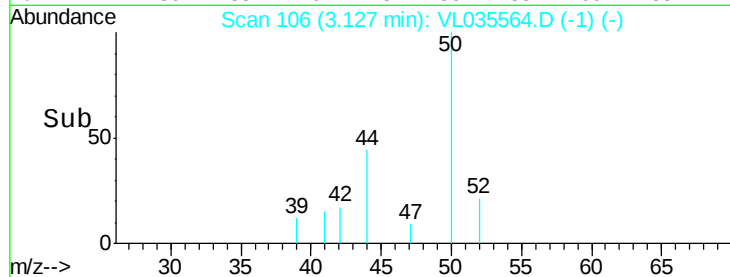
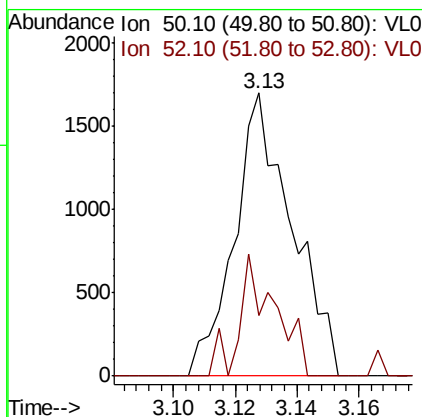
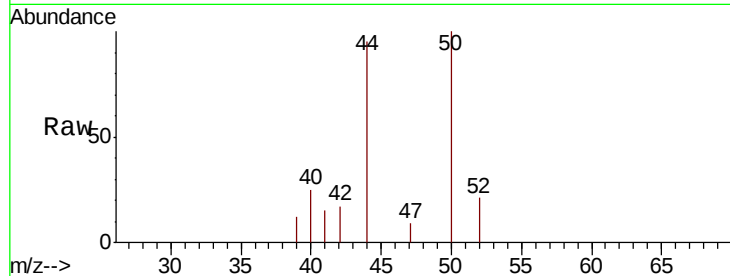




#4
 Chloromethane
 Concen: 0.033 ppbv
 RT: 3.13 min Scan# 106
 Delta R.T. -0.01 min
 Lab File: VL035564.D
 Acq: 8 Sep 2020 20:14

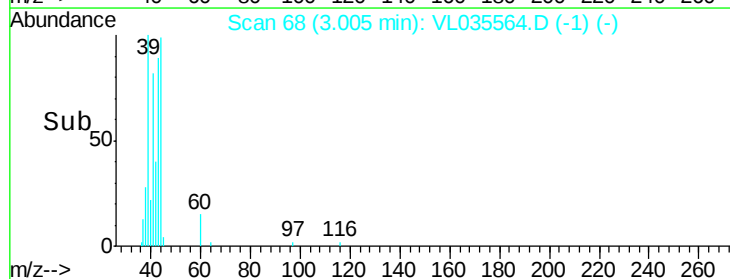
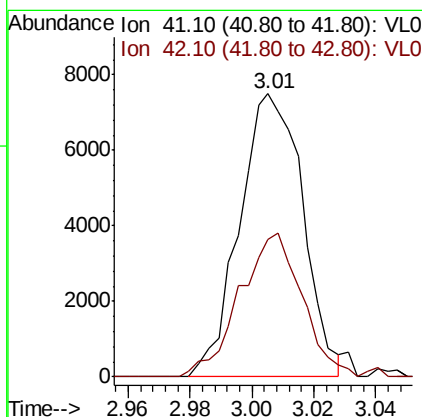
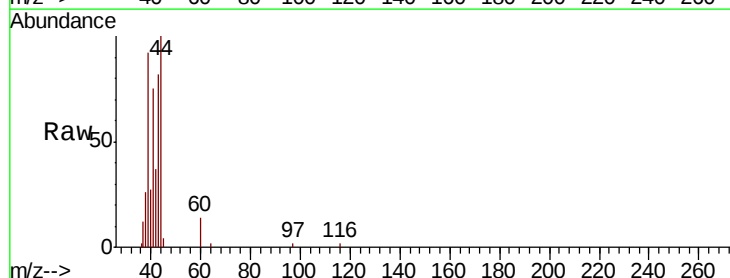
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-5DL2

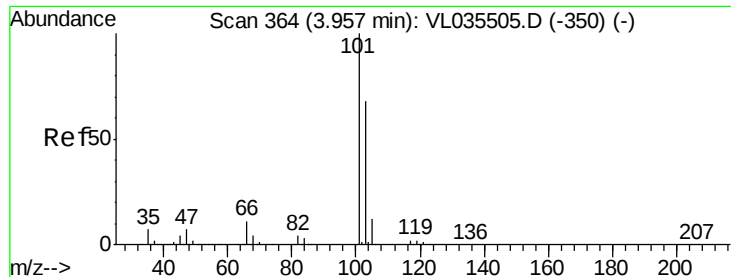
Tot Ion: 50 Resp: 2192
 Ion Ratio Lower Upper
 50 100
 52 21.3 27.7 41.5#



#9
 Propene
 Concen: 0.222 ppbv
 RT: 3.01 min Scan# 68
 Delta R.T. -0.01 min
 Lab File: VL035564.D
 Acq: 8 Sep 2020 20:14

Tgt Ion: 41 Resp: 10640
 Ion Ratio Lower Upper
 41 100
 42 51.1 56.3 84.5#

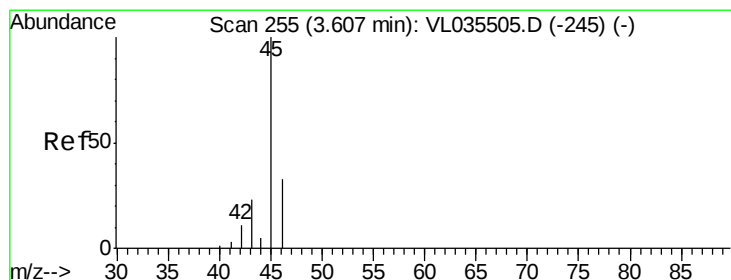
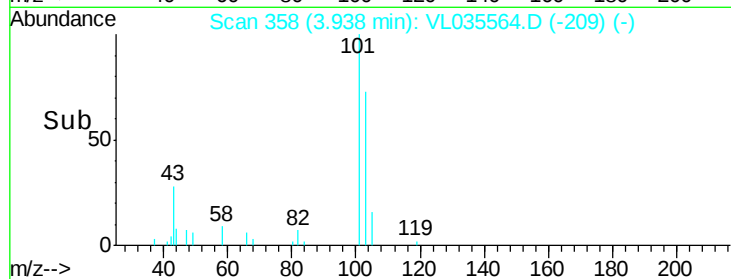
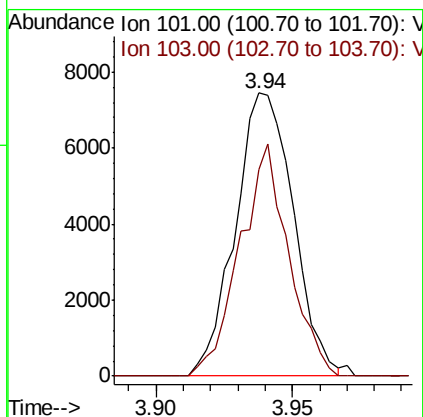
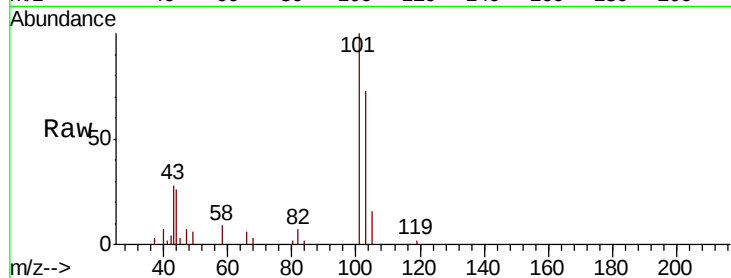




#11
 Trichlorofluoromethane
 Concen: 0.039 ppbv
 RT: 3.94 min Scan# 358
 Delta R.T. -0.02 min
 Lab File: VL035564.D
 Acq: 8 Sep 2020 20:14

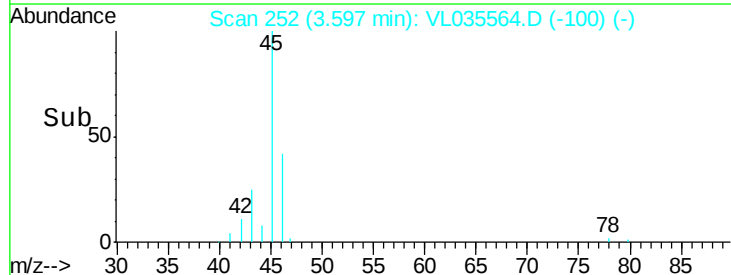
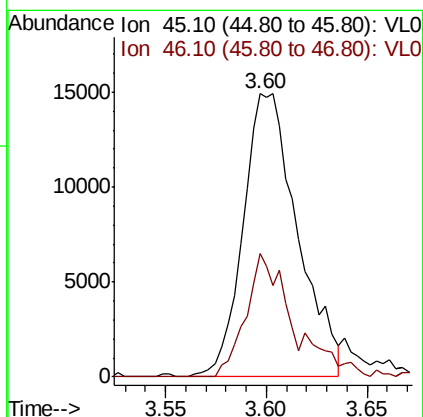
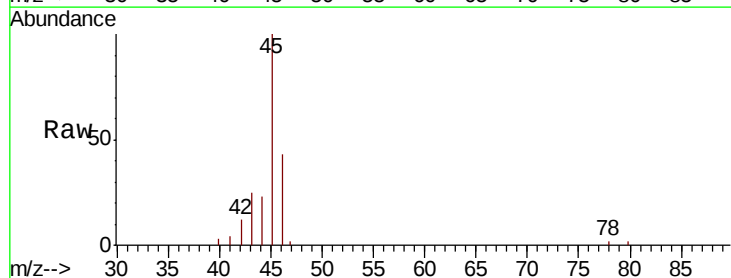
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-5DL2

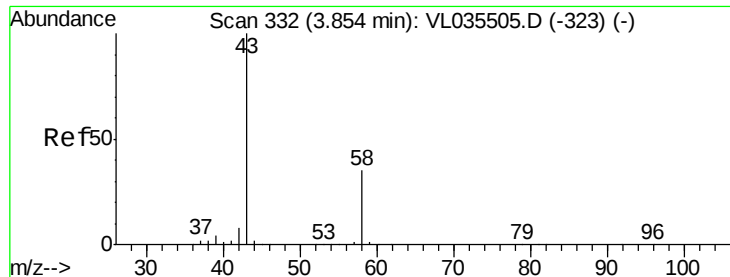
Tot Ion:101 Resp: 11020
 Ion Ratio Lower Upper
 101 100
 103 72.8 54.5 81.7



#13
 Ethanol
 Concen: 2.370 ppbv
 RT: 3.60 min Scan# 252
 Delta R.T. -0.01 min
 Lab File: VL035564.D
 Acq: 8 Sep 2020 20:14

Tgt Ion: 45 Resp: 28220
 Ion Ratio Lower Upper
 45 100
 46 38.3 15.2 60.6





#15

Acetone

Concen: 6.921 ppbv

RT: 3.84 min Scan# 327

Delta R.T. -0.02 min

Lab File: VL035564.D

Acq: 8 Sep 2020 20:14

Instrument :

MSVOA_L

ClientSampleId :

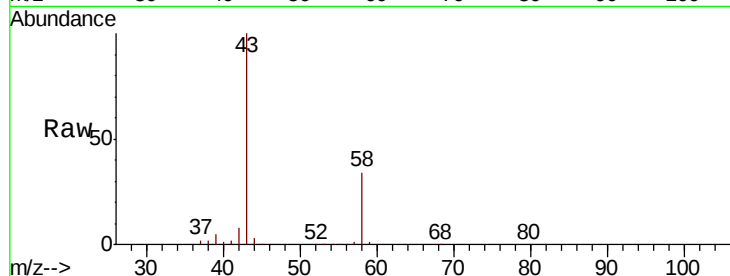
IA-5DL2

Tot Ion: 43 Resp: 859735

Ion Ratio Lower Upper

43 100

58 35.0 28.4 42.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.84

600000

500000

400000

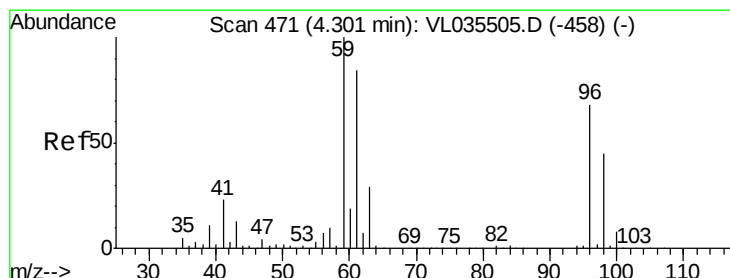
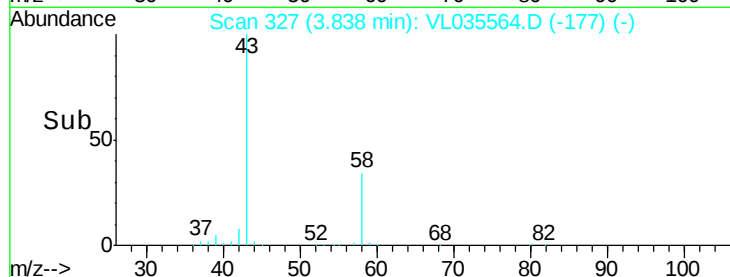
300000

200000

100000

0

Time--> 3.75 3.80 3.85 3.90 3.95



#17

tert-Butyl alcohol

Concen: 0.100 ppbv

RT: 4.30 min Scan# 470

Delta R.T. -0.00 min

Lab File: VL035564.D

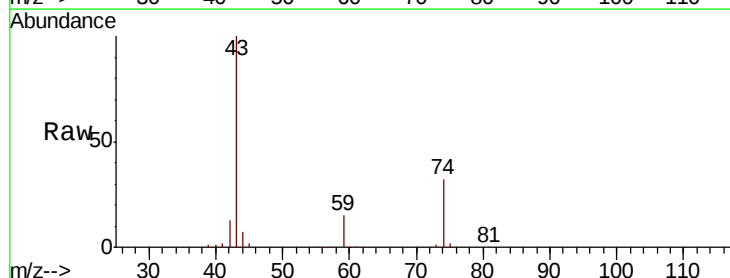
Acq: 8 Sep 2020 20:14

Tgt Ion: 59 Resp: 15178

Ion Ratio Lower Upper

59 100

57 3.0 8.4 12.6#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.30

10000

8000

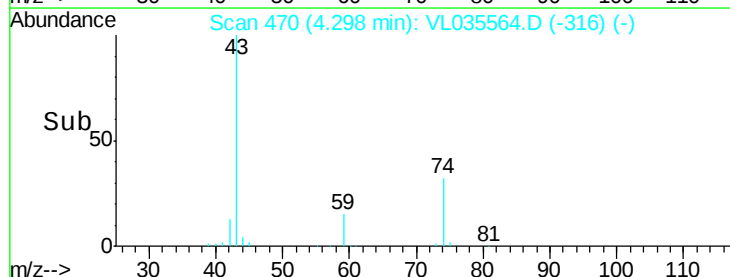
6000

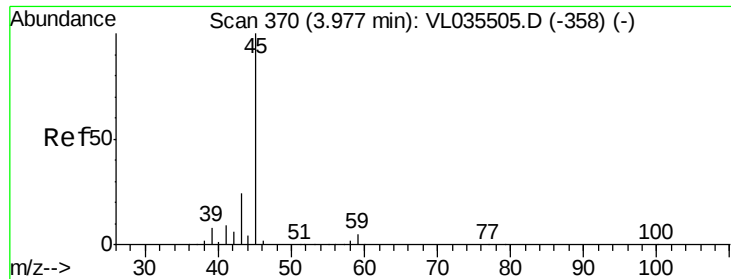
4000

2000

0

Time--> 4.25 4.30 4.35





#19

Isopropyl Alcohol

Concen: 0.092 ppbv

RT: 3.98 min Scan# 370

Delta R.T. -0.00 min

Lab File: VL035564.D

Acq: 8 Sep 2020 20:14

Instrument :

MSVOA_L

ClientSampleId :

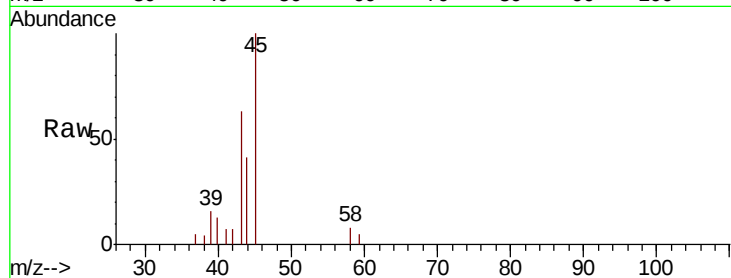
IA-5DL2

Tot Ion: 45 Resp: 6839

Ion Ratio Lower Upper

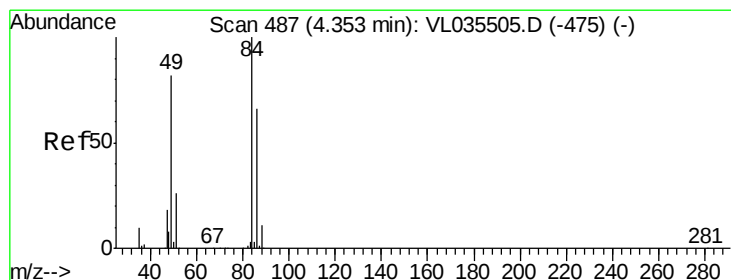
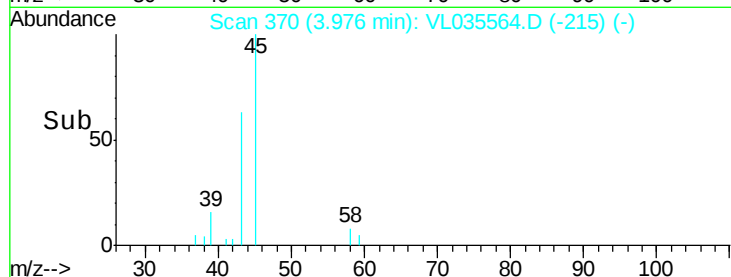
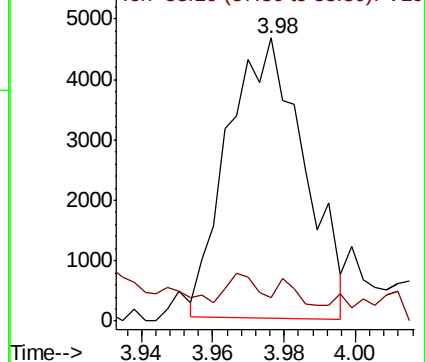
45 100

58 0.0 2.0 3.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 1.955 ppbv

RT: 4.33 min Scan# 481

Delta R.T. -0.02 min

Lab File: VL035564.D

Acq: 8 Sep 2020 20:14

Tgt Ion: 84 Resp: 180918

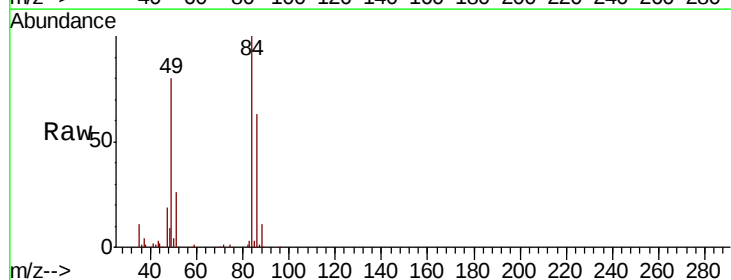
Ion Ratio Lower Upper

84 100

49 80.4 65.4 98.0

51 25.7 21.5 32.3

86 63.0 52.9 79.3

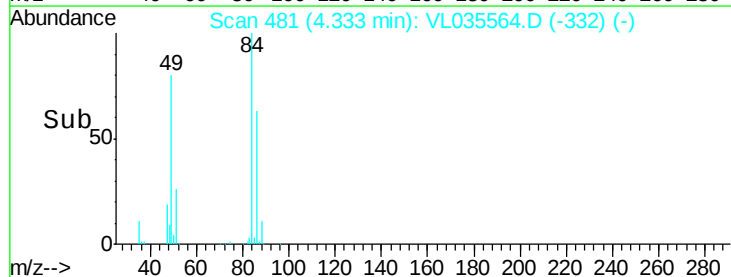
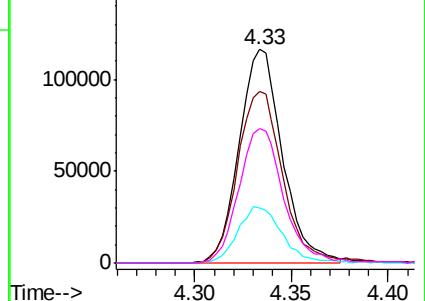


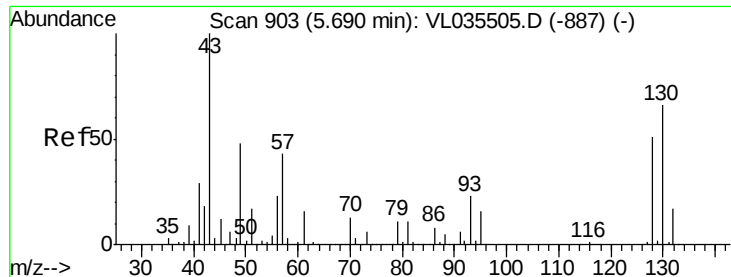
Abundance Ion 84.00 (83.70 to 84.70): VL0

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

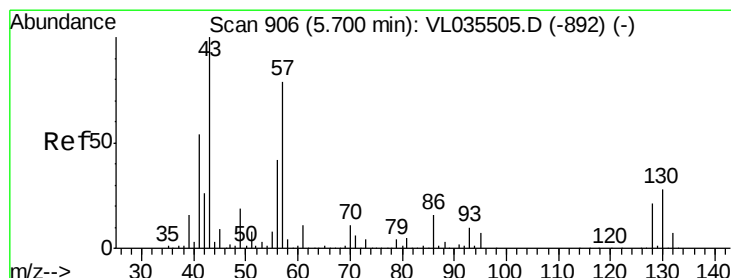
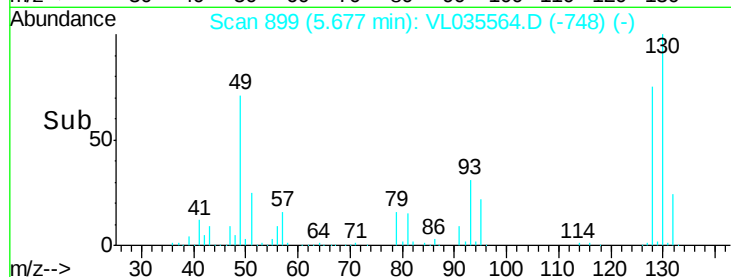
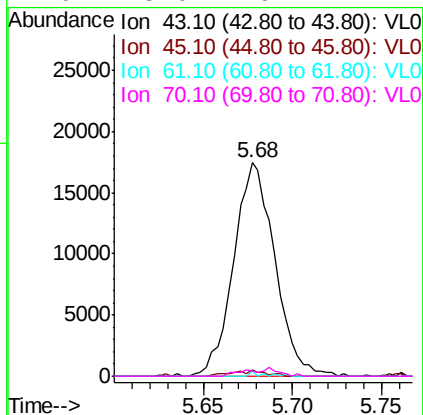
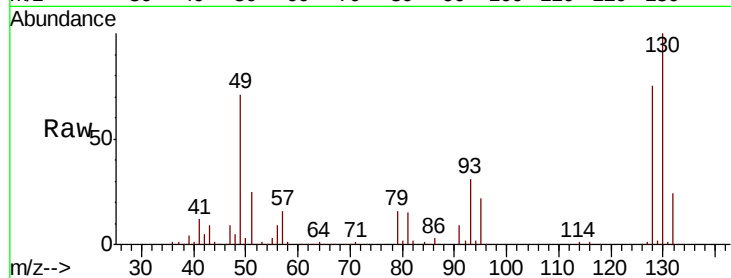




#25
Ethyl Acetate
Concen: 0.128 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.01 min
Lab File: VL035564.D
Acq: 8 Sep 2020 20:14

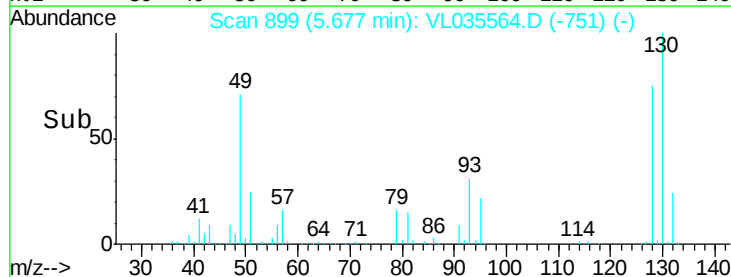
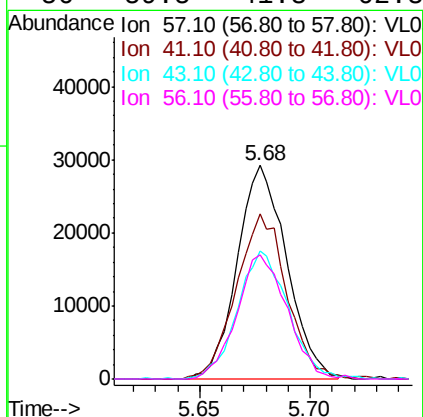
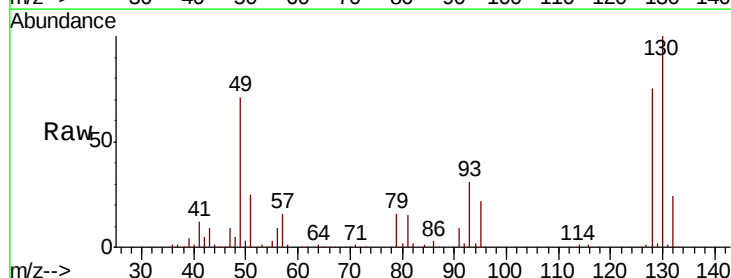
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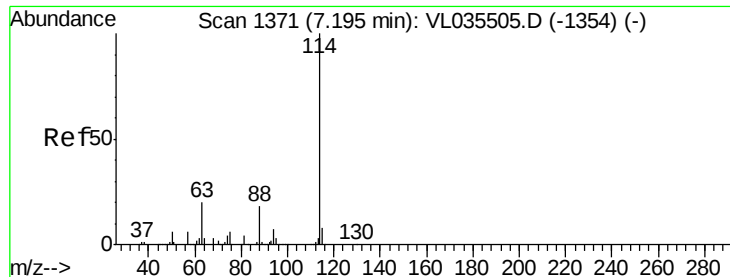
Tot Ion: 43 Resp: 28168
Ion Ratio Lower Upper
43 100
45 2.3 8.4 12.6#
61 0.7 10.6 16.0#
70 3.0 9.4 14.2#



#26
Hexane
Concen: 0.366 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.02 min
Lab File: VL035564.D
Acq: 8 Sep 2020 20:14

Tgt Ion: 57 Resp: 45566
Ion Ratio Lower Upper
57 100
41 79.7 55.9 83.9
43 62.0 141.8 212.8#
56 59.5 41.8 62.8

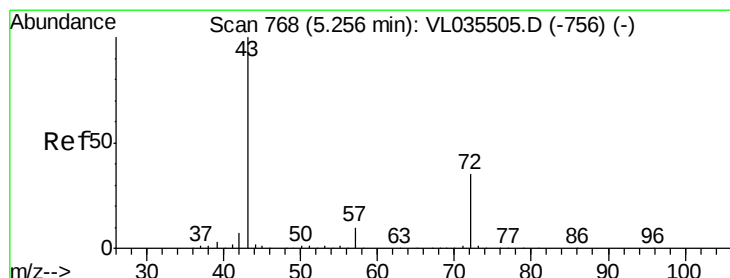
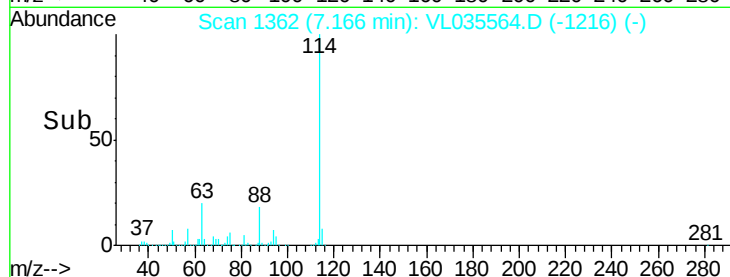
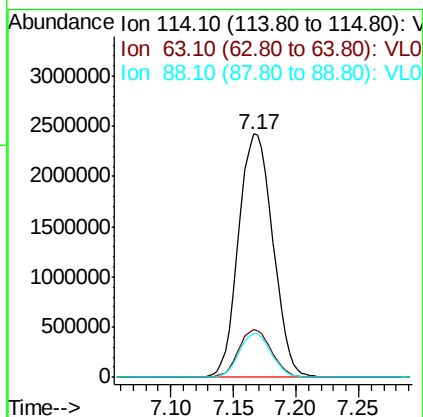
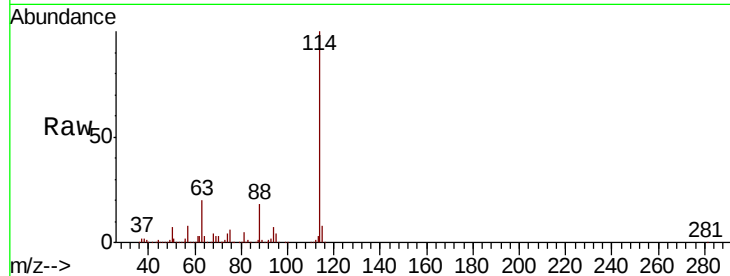




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. -0.03 min
 Lab File: VL035564.D
 Acq: 8 Sep 2020 20:14

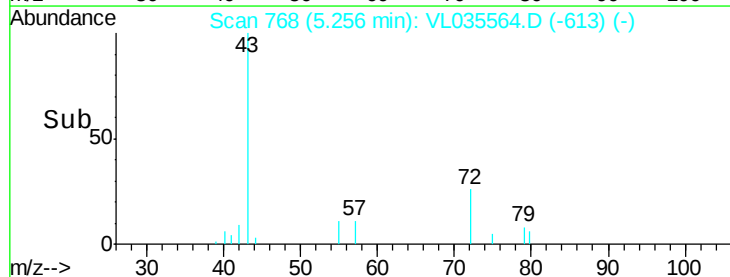
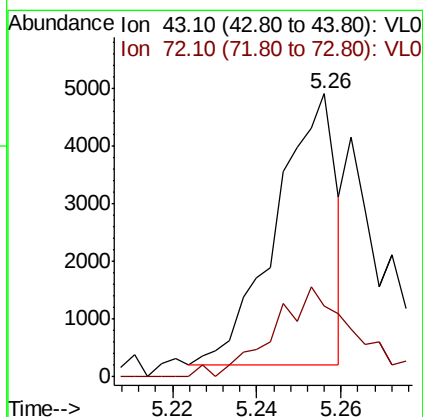
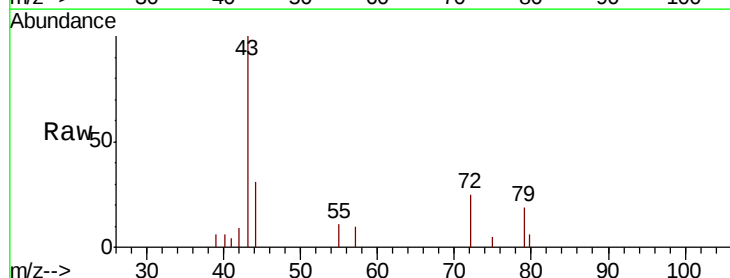
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-5DL2

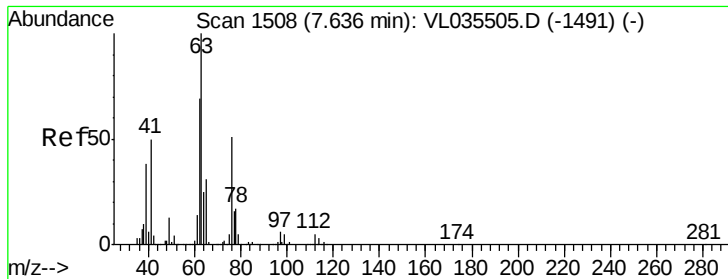
Tot Ion:114 Resp: 4626536
 Ion Ratio Lower Upper
 114 100
 63 18.7 14.7 22.1
 88 17.1 13.4 20.2



#34
 2-Butanone
 Concen: 0.034 ppbv
 RT: 5.26 min Scan# 768
 Delta R.T. -0.00 min
 Lab File: VL035564.D
 Acq: 8 Sep 2020 20:14

Tgt Ion: 43 Resp: 4633
 Ion Ratio Lower Upper
 43 100
 72 46.8 27.7 41.5#





#39

1,2-Dichloropropane

Concen: 8.527 ppbv

RT: 7.17 min Scan# 1362

Delta R.T. -0.47 min

Lab File: VL035564.D

Acq: 8 Sep 2020 20:14

Instrument :

MSVOA_L

ClientSampleId :

IA-5DL2

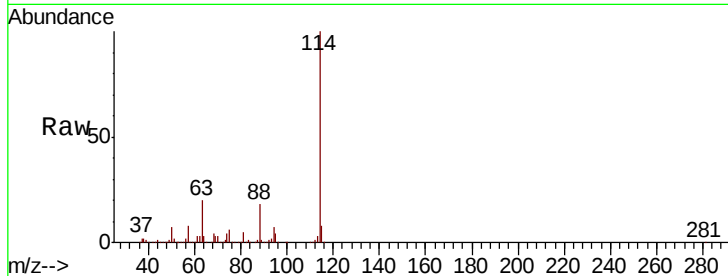
Tot Ion: 63 Resp: 862696

Ion Ratio Lower Upper

63 100

41 0.1 40.0 60.0#

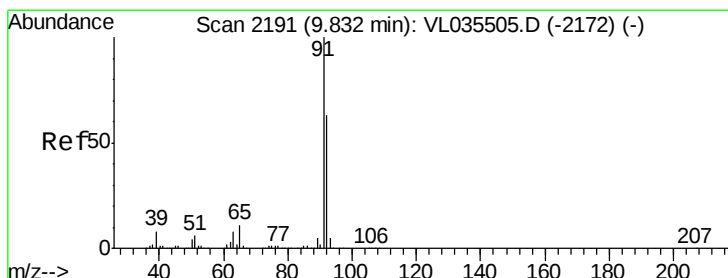
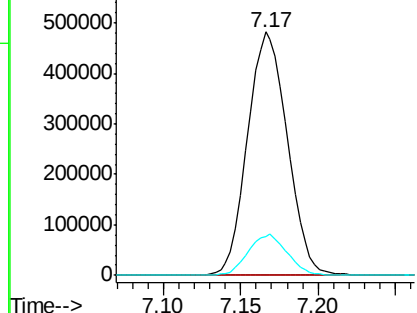
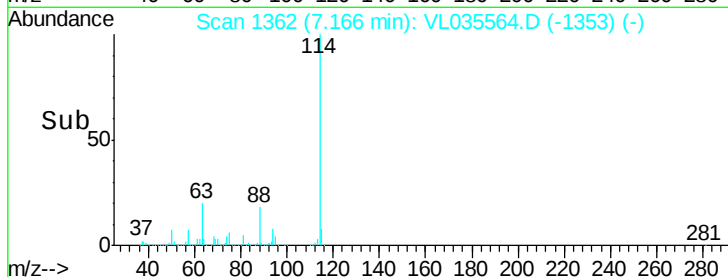
62 15.9 55.4 83.0#



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



#53

Toluene

Concen: 0.044 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. -0.03 min

Lab File: VL035564.D

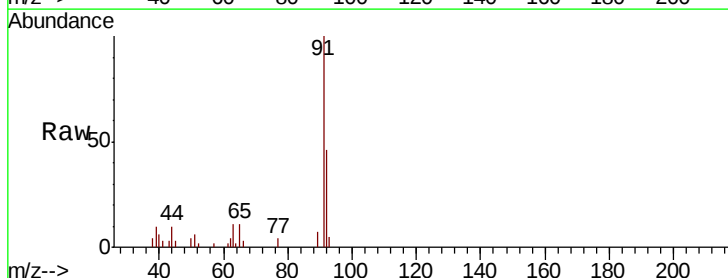
Acq: 8 Sep 2020 20:14

Tgt Ion: 91 Resp: 16742

Ion Ratio Lower Upper

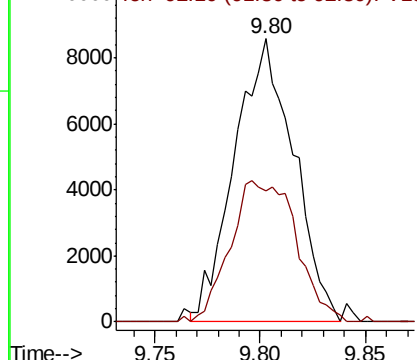
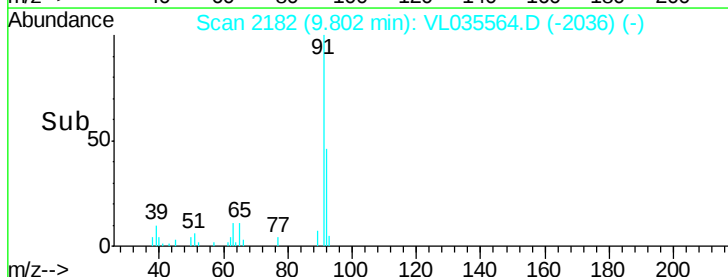
91 100

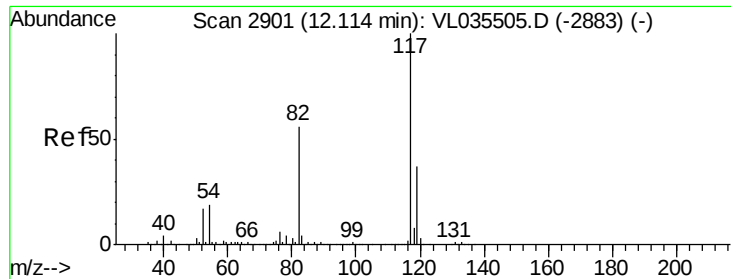
92 55.4 49.8 74.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

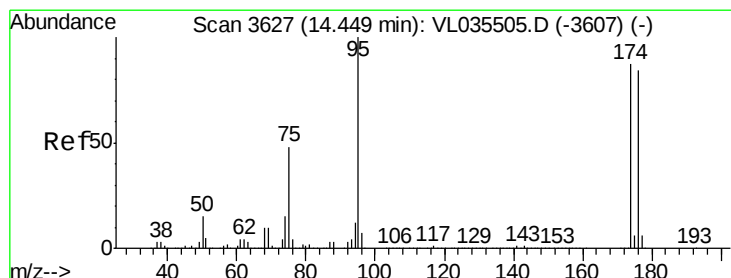
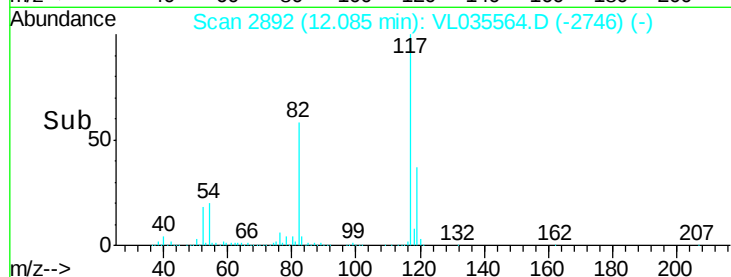
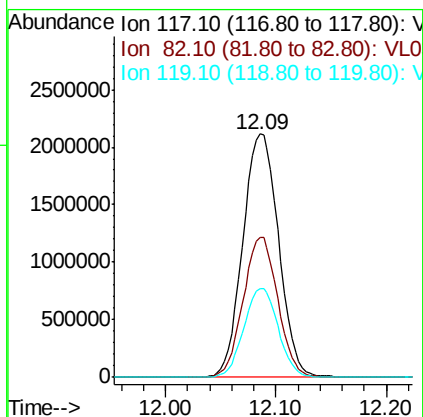
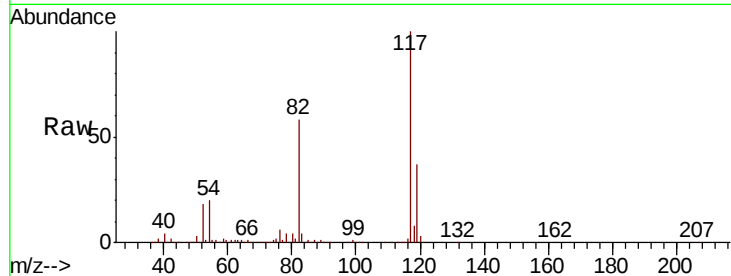




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2892
Delta R.T. -0.03 min
Lab File: VL035564.D
Acq: 8 Sep 2020 20:14

Instrument :
MSVOA_L
ClientSampleId :
IA-5DL2

Tot Ion:117 Resp: 4760075
Ion Ratio Lower Upper
117 100
82 55.9 41.6 62.4
119 35.3 29.3 43.9



#68
1-Bromo-4-Fluorobenzene
Concen: 10.398 ppbv
RT: 14.42 min Scan# 3618
Delta R.T. -0.03 min
Lab File: VL035564.D
Acq: 8 Sep 2020 20:14

Tgt Ion: 95 Resp: 3514899
Ion Ratio Lower Upper
95 100
174 84.7 69.6 104.4
175 6.3 5.1 7.7

