

Data File : VL035664.D
Acq On : 17 Sep 2020 20:02
Operator : SY/AP
Sample : L3983-07DL2 400X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV-10DL2

Quant Time: Sep 18 02:33:43 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL082720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep 14 15:19:50 2020
QLast Update : Mon Sep 14 15:19:50 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1154719	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4414404	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	4384748	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.44 95 3215862 10.33 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 103.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Propene	3.01	41	10229	0.208	ppbv	86
15) Acetone	3.86	43	230490	1.810	ppbv	96
16) 1,3-Butadiene	3.31	39	7767	0.164	ppbv #	6
20) Methylene Chloride	4.34	84	21779	0.230	ppbv	96
26) Hexane	5.69	57	9825	0.077	ppbv #	37
30) Cyclohexane	7.17	84	4099	0.030	ppbv #	9
31) cis-1,2-Dichloroethene	5.55	61	60026	0.459	ppbv	91
38) Trichloroethene	7.84	130	243368	1.466	ppbv	97
39) 1,2-Dichloropropane	7.18	63	851669	8.823	ppbv #	32
52) Tetrachloroethene	11.24	164	2256201	13.515	ppbv	95
53) Toluene	9.82	91	15411	0.043	ppbv #	19
71) 2-Chlorotoluene	15.34	91	1204767	2.707	ppbv #	36

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

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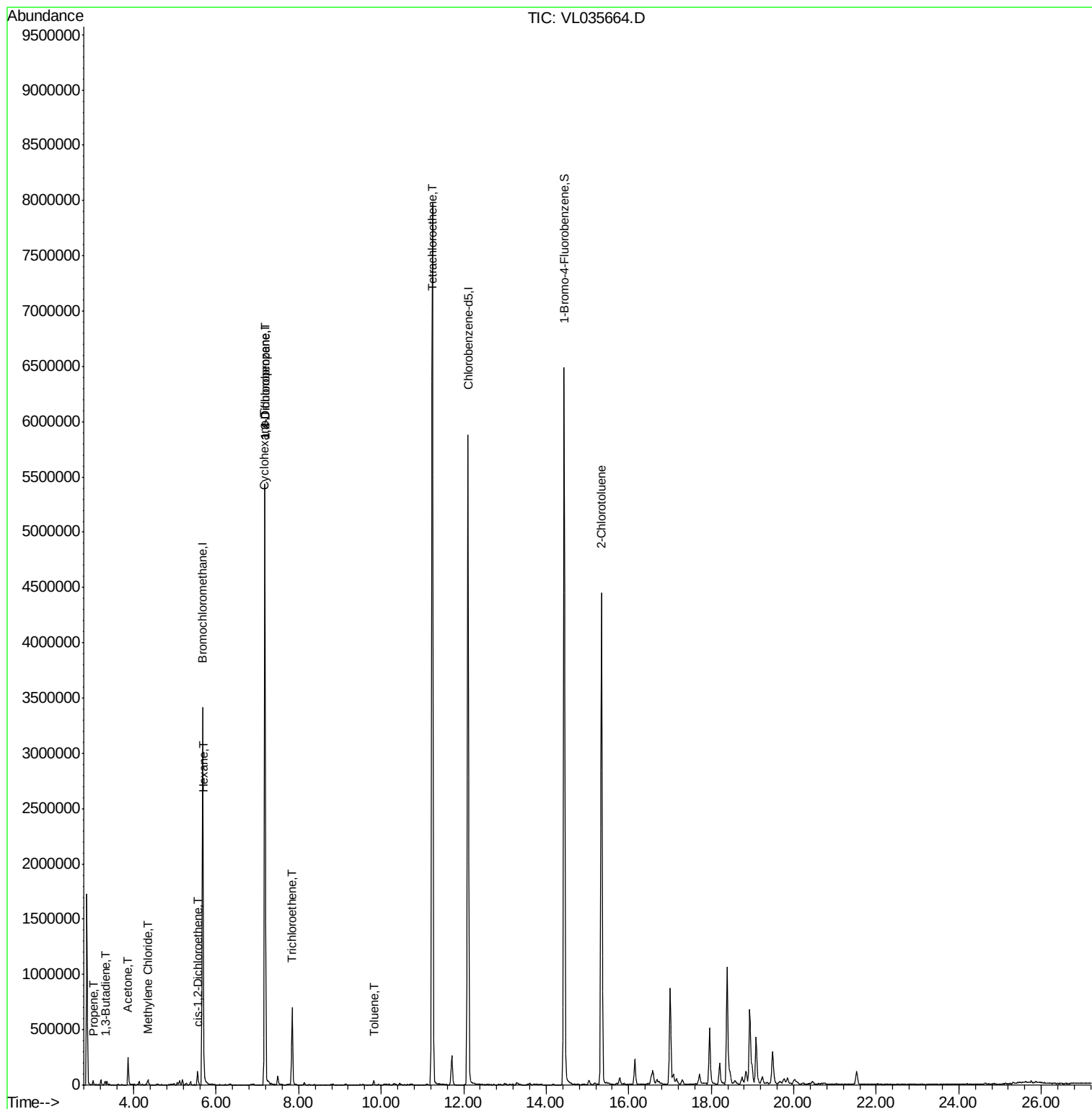
Quant Time: Sep 18 02:33:43 2020

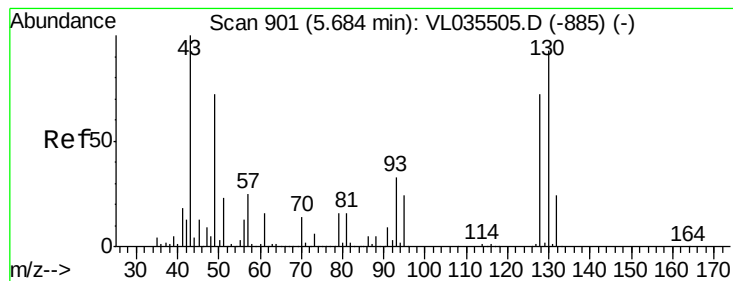
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL082720AIR.M

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. 0.00 min

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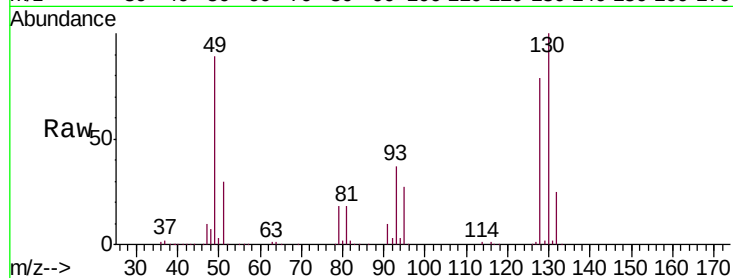
Tgt Ion: 49 Resp: 1154719

Ion Ratio Lower Upper

49 100

128 88.8 50.0 150.1

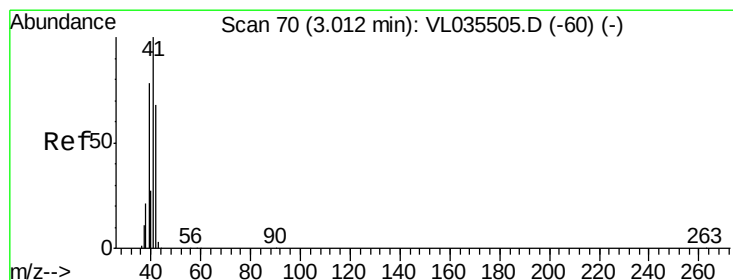
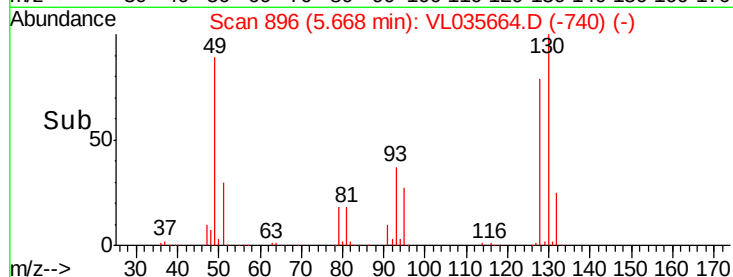
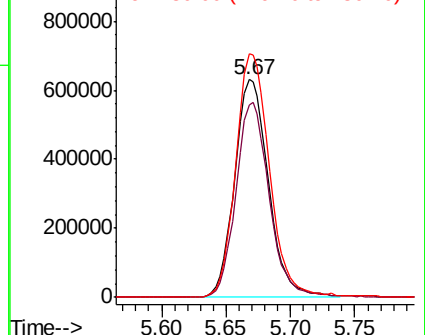
130 113.1 64.4 193.2



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



#9

Propene

Concen: 0.208 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.02 min

Lab File: VL035664.D

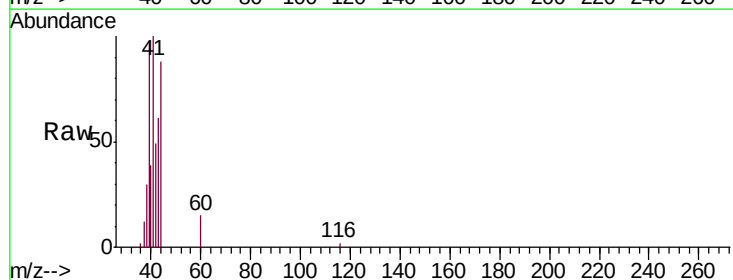
Acq: 17 Sep 2020 20:02

Tgt Ion: 41 Resp: 10229

Ion Ratio Lower Upper

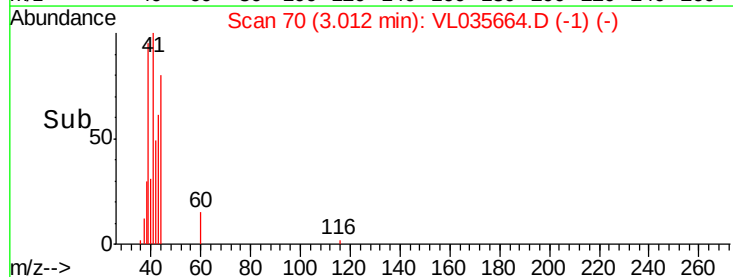
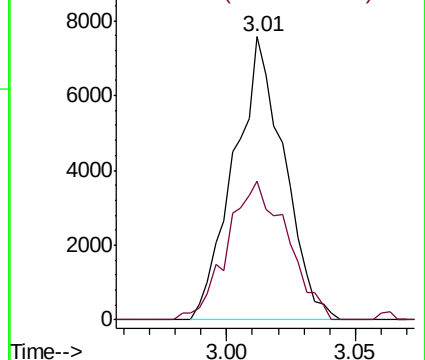
41 100

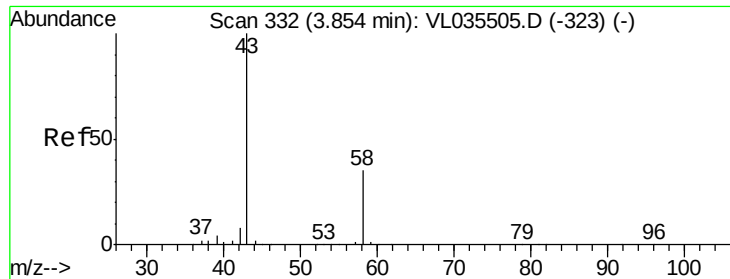
42 58.6 56.3 84.5



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#15

Acetone

Concen: 1.810 ppbv

RT: 3.86 min Scan# 334

Delta R.T. 0.02 min

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ClientSampleId :

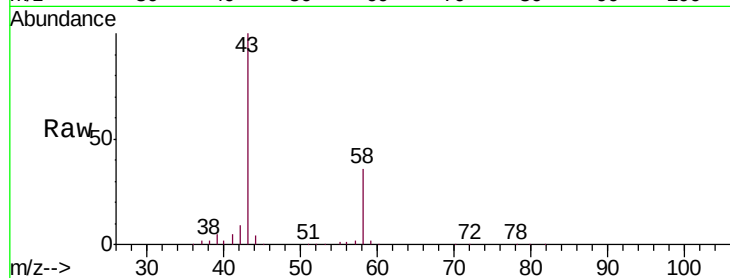
SV-10DL2

Tgt Ion: 43 Resp: 230490

Ion Ratio Lower Upper

43 100

58 37.9 28.4 42.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

150000

100000

50000

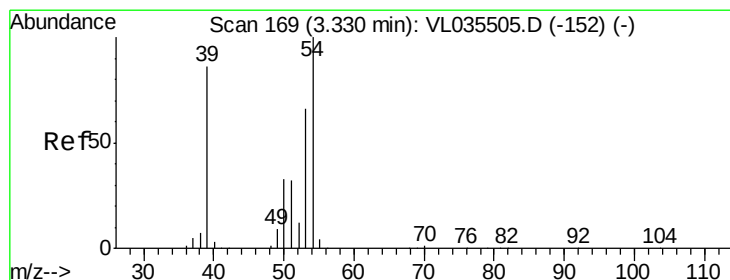
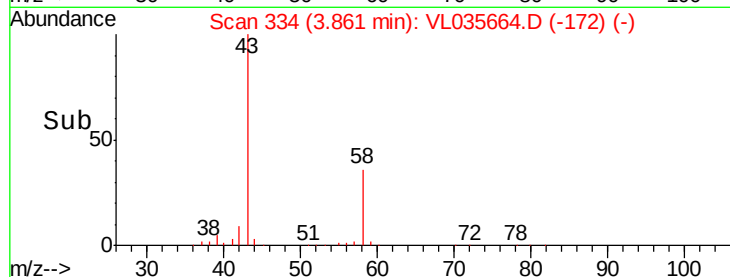
0

3.86

3.85

3.90

Time-->



#16

1,3-Butadiene

Concen: 0.164 ppbv

RT: 3.31 min Scan# 162

Delta R.T. -0.01 min

Lab File: VL035664.D

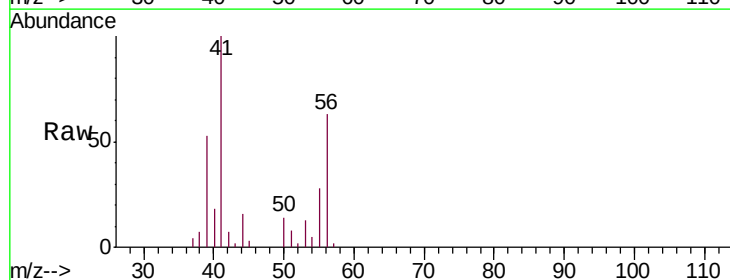
Acq: 17 Sep 2020 20:02

Tgt Ion: 39 Resp: 7767

Ion Ratio Lower Upper

39 100

54 11.3 88.4 132.6#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

6000

4000

2000

0

3.31

3.26

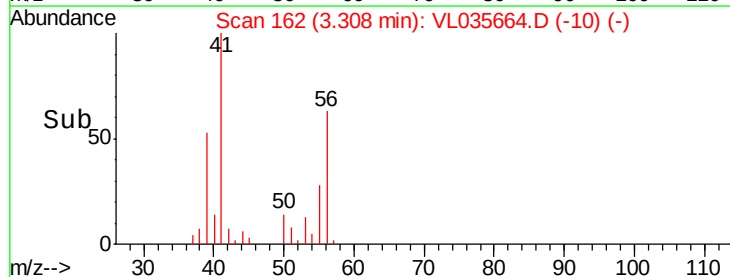
3.28

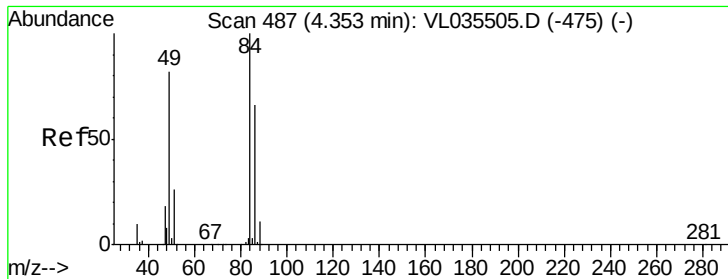
3.30

3.32

3.34

Time-->

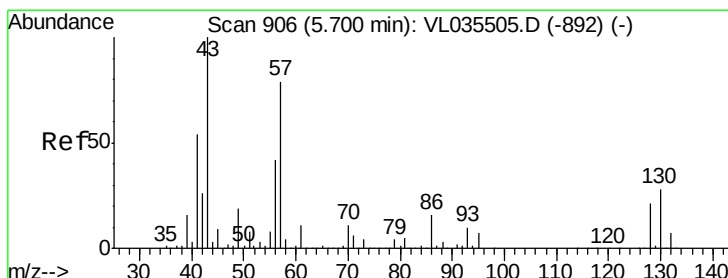
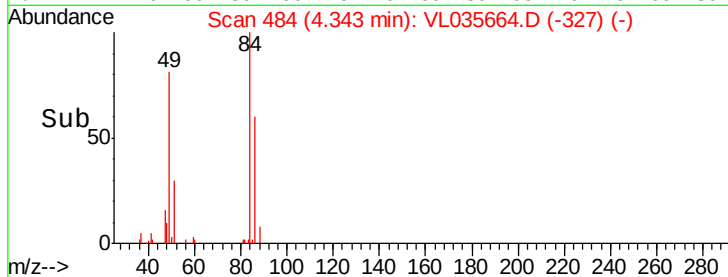
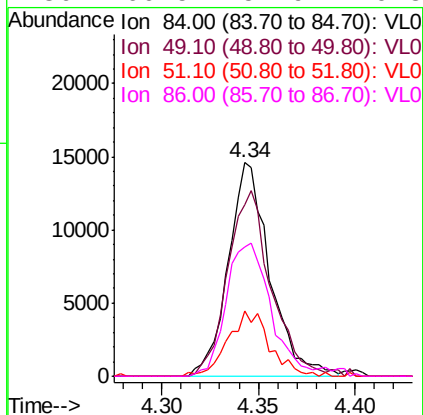
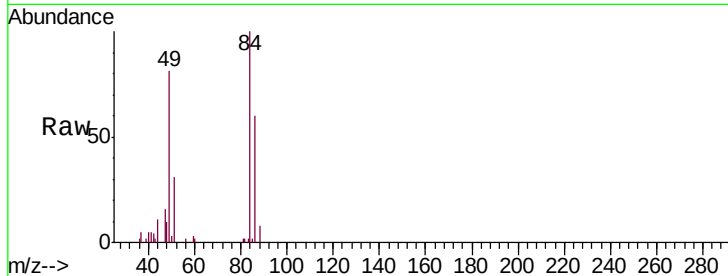




#20
Methylene Chloride
Concen: 0.230 ppbv
RT: 4.34 min Scan# 484
Delta R.T. 0.01 min
Lab File: VL035664.D
Acq: 17 Sep 2020 20:02

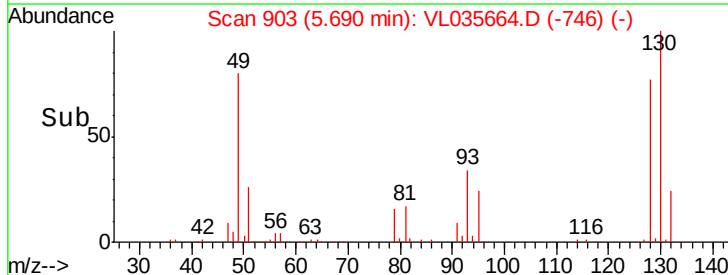
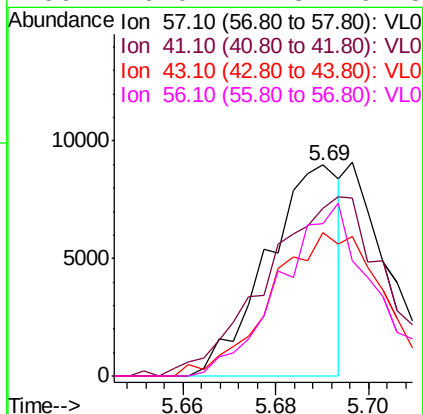
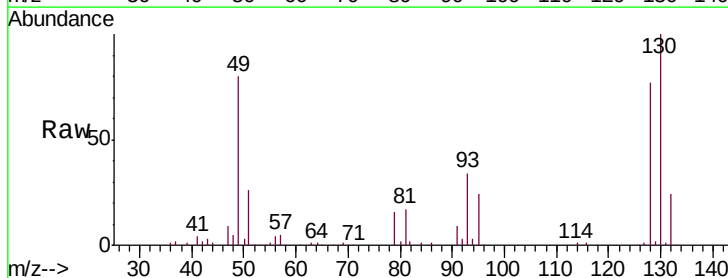
Instrument :
MSVOA_L
ClientSampleId :
SV-10DL2

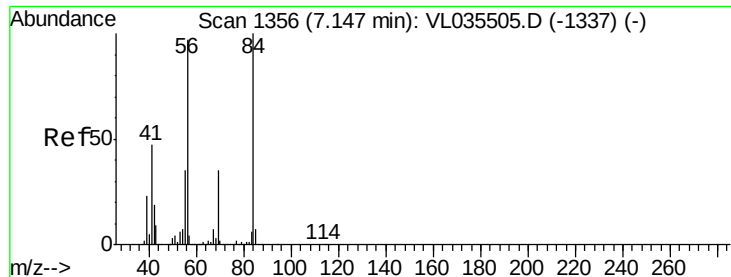
Tgt Ion:	84	Resp:	21779
Ion	Ratio	Lower	Upper
84	100		
49	80.5	65.4	98.0
51	30.8	21.5	32.3
86	60.5	52.9	79.3



#26
Hexane
Concen: 0.077 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.01 min
Lab File: VL035664.D
Acq: 17 Sep 2020 20:02

Tgt Ion:	57	Resp:	9825
Ion	Ratio	Lower	Upper
57	100		
41	0.0	55.9	83.9#
43	105.3	141.8	212.8#
56	0.0	41.8	62.8#

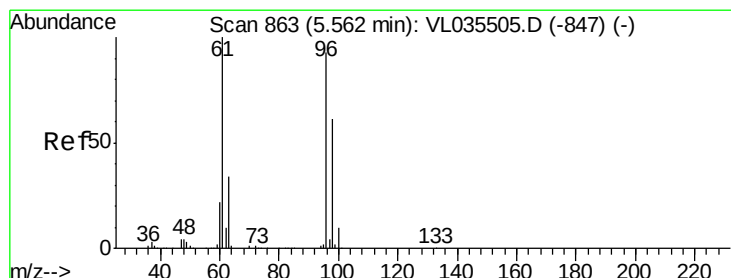
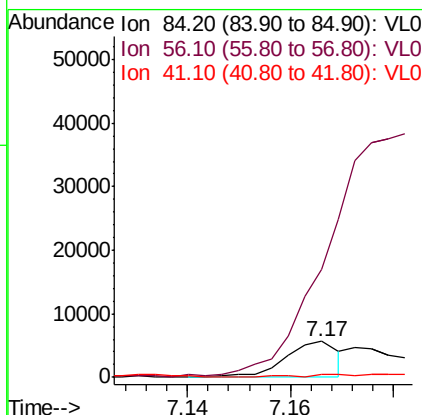
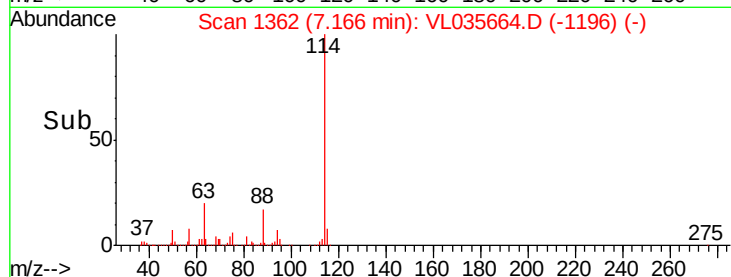
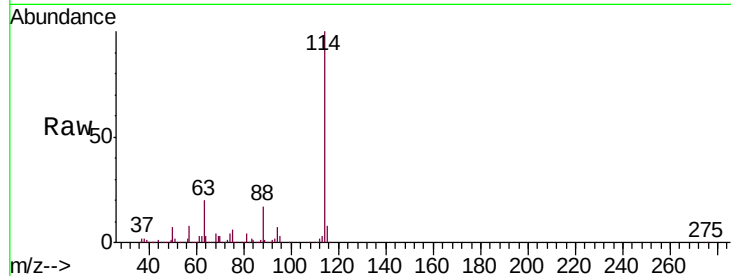




#30
Cyclohexane
Concen: 0.030 ppbv
RT: 7.17 min Scan# 1362
Delta R.T. 0.04 min
Lab File: VL035664.D
Acq: 17 Sep 2020 20:02

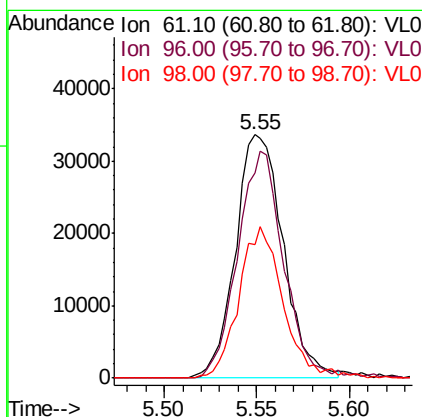
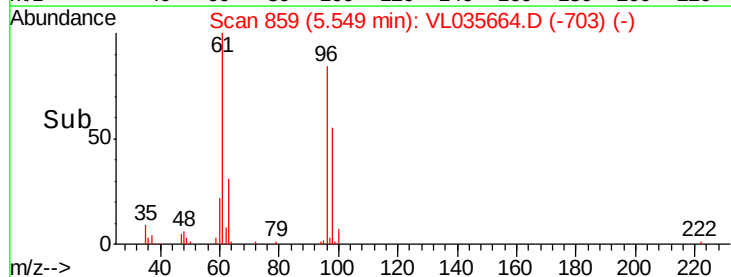
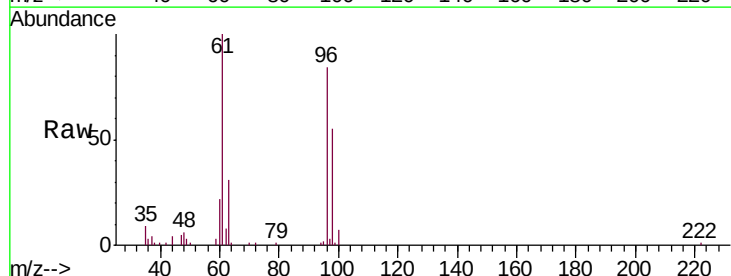
Instrument :
MSVOA_L
ClientSampleId :
SV-10DL2

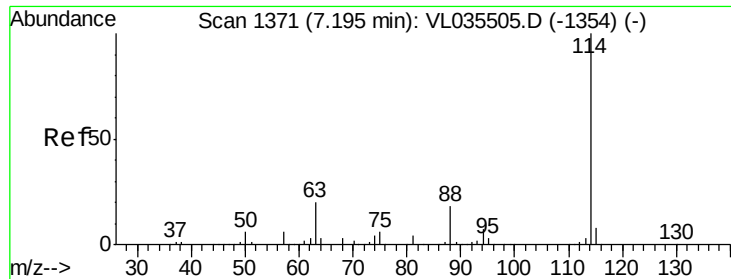
Tgt Ion: 84 Resp: 4099
Ion Ratio Lower Upper
84 100
56 0.0 80.1 120.1#
41 0.0 38.1 57.1#



#31
cis-1,2-Dichloroethene
Concen: 0.459 ppbv
RT: 5.55 min Scan# 859
Delta R.T. 0.00 min
Lab File: VL035664.D
Acq: 17 Sep 2020 20:02

Tgt Ion: 61 Resp: 60026
Ion Ratio Lower Upper
61 100
96 84.1 74.4 111.6
98 54.8 49.2 73.8

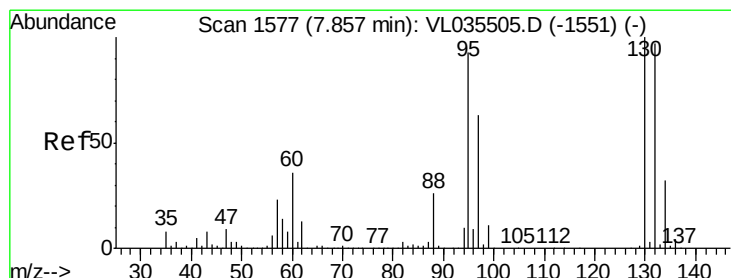
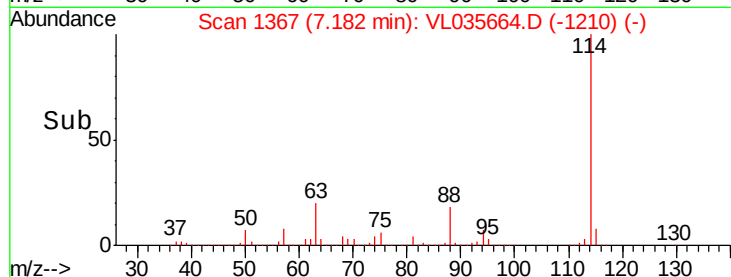
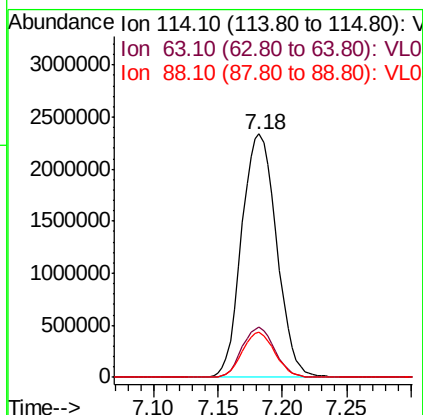
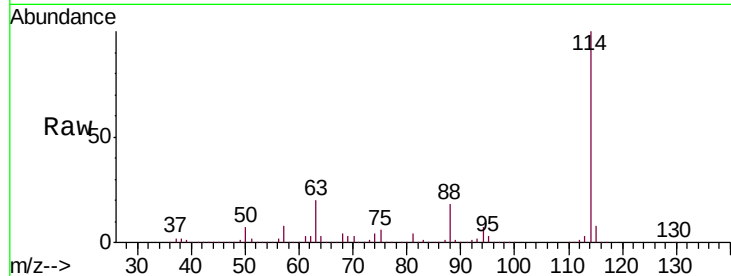




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. 0.01 min
 Lab File: VL035664.D
 Acq: 17 Sep 2020 20:02

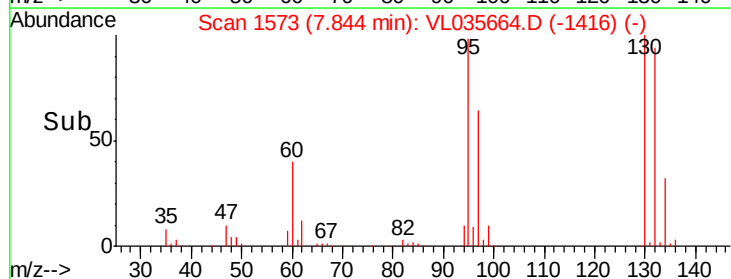
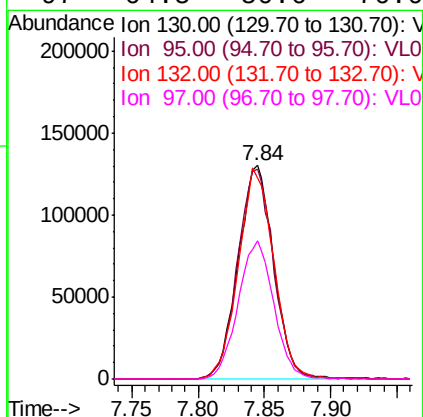
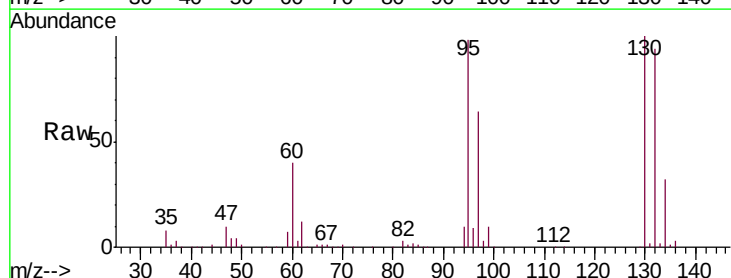
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-10DL2

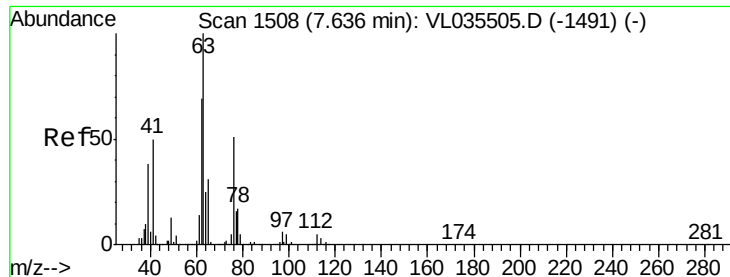
Tgt Ion:114 Resp: 4414404
 Ion Ratio Lower Upper
 114 100
 63 19.4 14.7 22.1
 88 17.4 13.4 20.2



#38
 Trichloroethene
 Concen: 1.466 ppbv
 RT: 7.84 min Scan# 1573
 Delta R.T. 0.01 min
 Lab File: VL035664.D
 Acq: 17 Sep 2020 20:02

Tgt Ion:130 Resp: 243368
 Ion Ratio Lower Upper
 130 100
 95 98.3 74.6 112.0
 132 94.4 77.6 116.4
 97 64.5 50.6 76.0





#39

1,2-Dichloropropane

Concen: 8.823 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. -0.43 min

Lab File: VL035664.D

Acq: 17 Sep 2020 20:02

Instrument :

MSVOA_L

ClientSampleId :

SV-10DL2

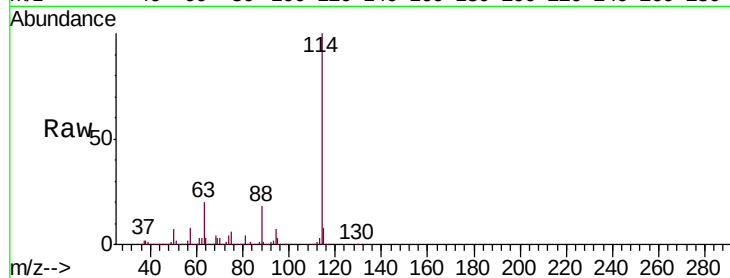
Tgt Ion: 63 Resp: 851669

Ion Ratio Lower Upper

63 100

41 0.0 40.0 60.0#

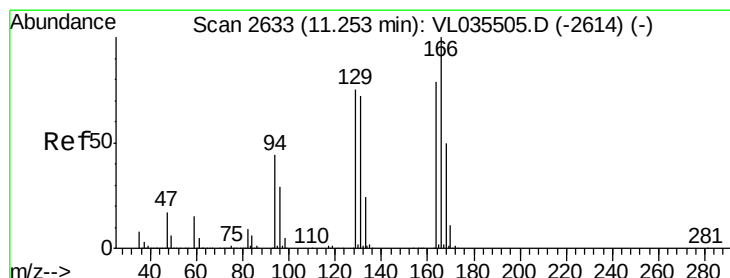
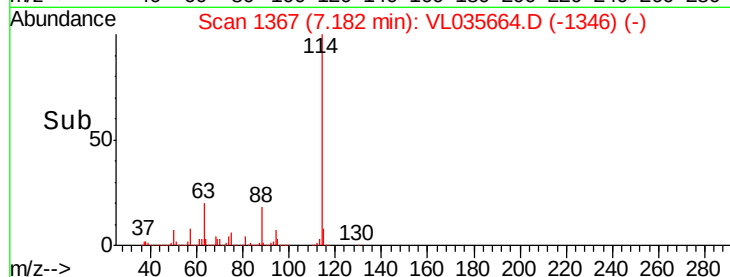
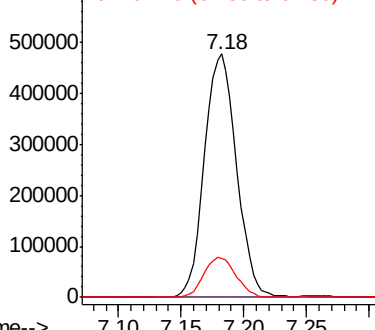
62 15.9 55.4 83.0#



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



#52

Tetrachloroethene

Concen: 13.515 ppbv

RT: 11.24 min Scan# 2629

Delta R.T. 0.01 min

Lab File: VL035664.D

Acq: 17 Sep 2020 20:02

Tgt Ion: 164 Resp: 2256201

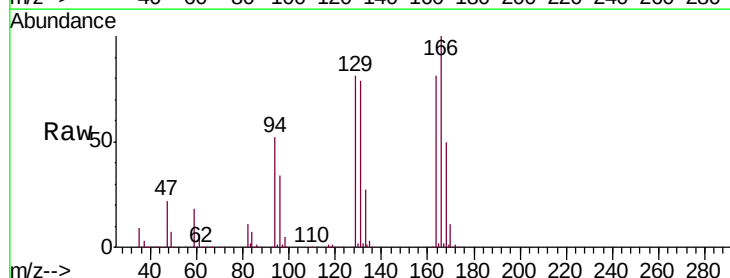
Ion Ratio Lower Upper

164 100

166 123.6 100.9 151.3

129 100.5 75.3 112.9

131 97.4 73.0 109.4

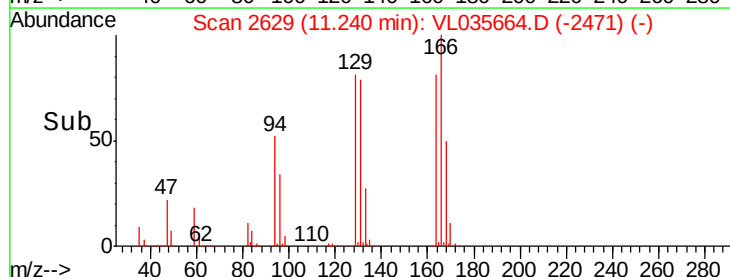
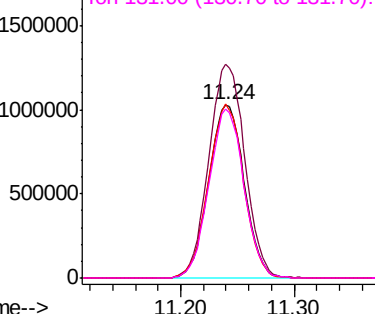


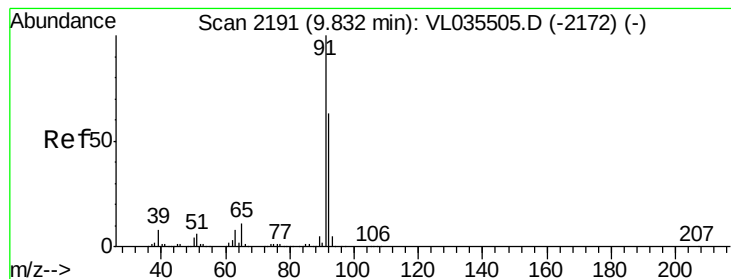
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.043 ppbv

RT: 9.82 min Scan# 2188

Delta R.T. 0.01 min

Lab File: VL035664.D

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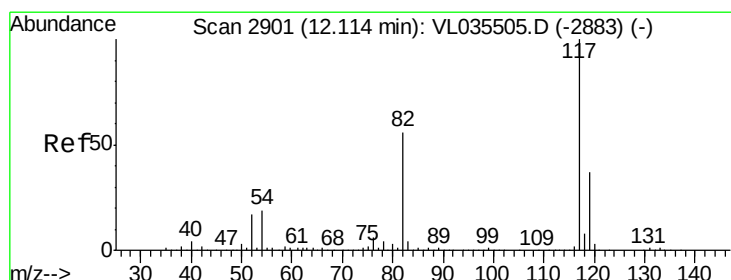
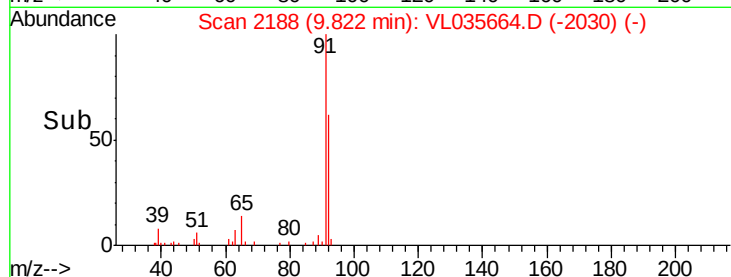
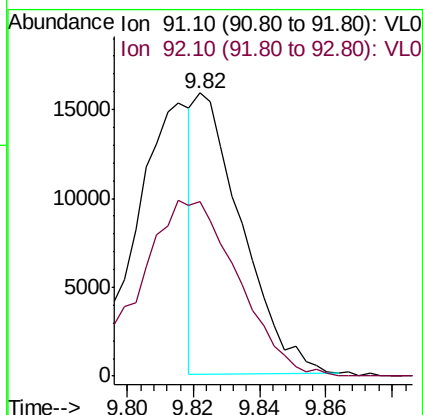
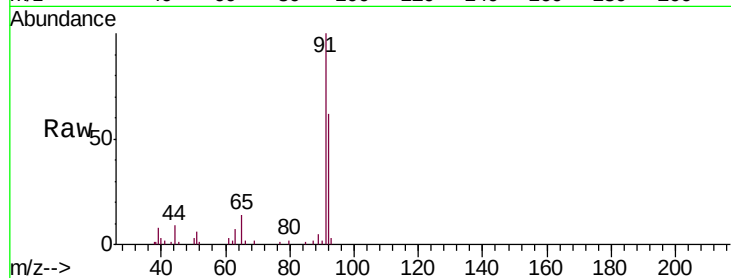
SV-10DL2

Tgt Ion: 91 Resp: 15411

Ion Ratio Lower Upper

91 100

92 0.0 49.8 74.8#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2897

Delta R.T. 0.01 min

Lab File: VL035664.D

Acq: 17 Sep 2020 20:02

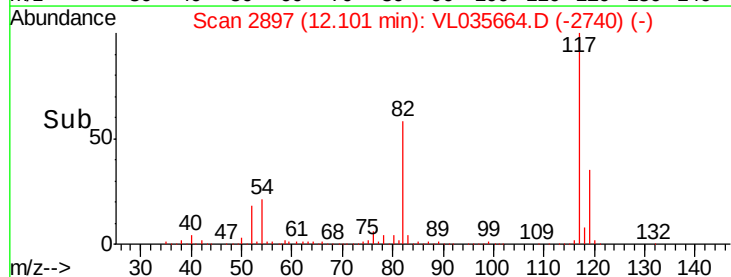
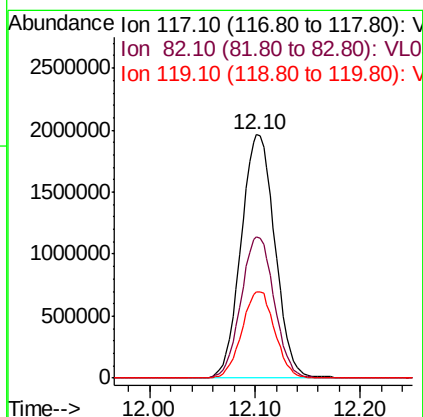
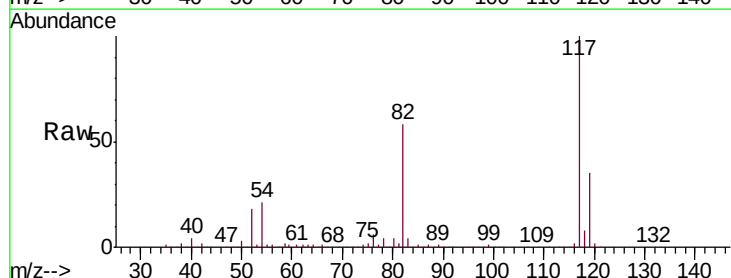
Tgt Ion: 117 Resp: 4384748

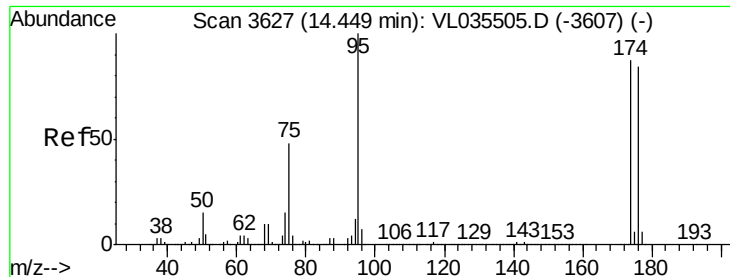
Ion Ratio Lower Upper

117 100

82 57.3 41.6 62.4

119 34.7 29.3 43.9





#68

1-Bromo-4-Fluorobenzene

Concen: 10.328 ppbv

RT: 14.44 min Scan# 3623

Delta R.T. 0.01 min

Lab File: VL035664.D

Acq: 17 Sep 2020 20:02

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SV-10DL2

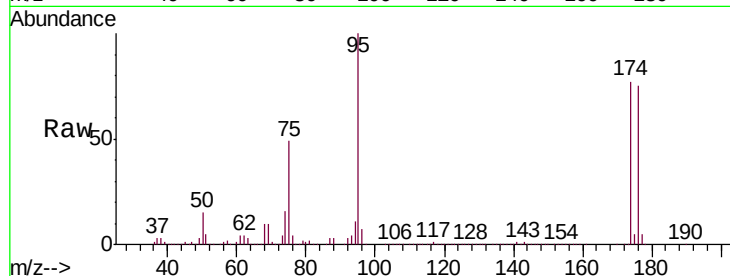
Tgt Ion: 95 Resp: 3215862

Ion Ratio Lower Upper

95 100

174 78.4 69.6 104.4

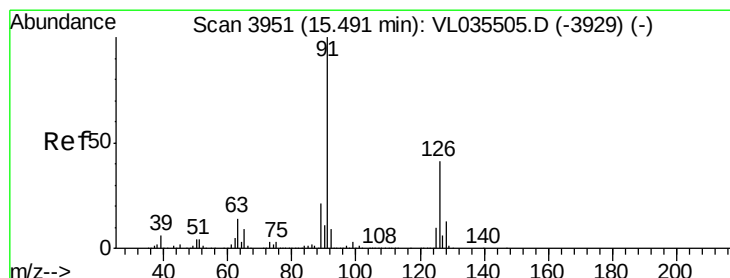
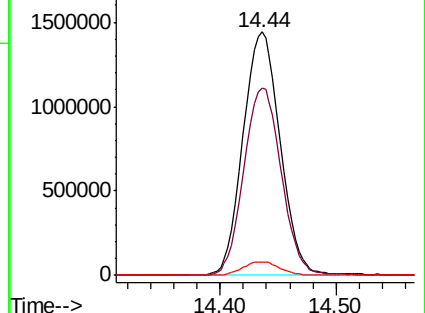
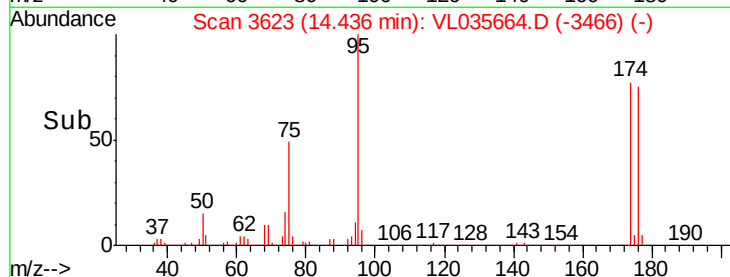
175 5.6 5.1 7.7



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



#71

2-Chlorotoluene

Concen: 2.707 ppbv

RT: 15.34 min Scan# 3904

Delta R.T. -0.13 min

Lab File: VL035664.D

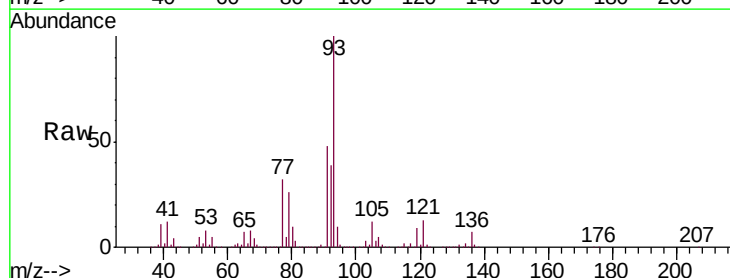
Acq: 17 Sep 2020 20:02

Tgt Ion: 91 Resp: 1204767

Ion Ratio Lower Upper

91 100

126 0.0 15.6 62.6#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

