

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091620\
 Data File : VL035642.D
 Acq On : 16 Sep 2020 23:42
 Operator : SY/AP
 Sample : L4036-03DL 4X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 DB-IA-Y03DL

Quant Time: Sep 17 07:09:55 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	5.66	49	1191215	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4591927	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	4540264	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	3341821	10.36	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.60%

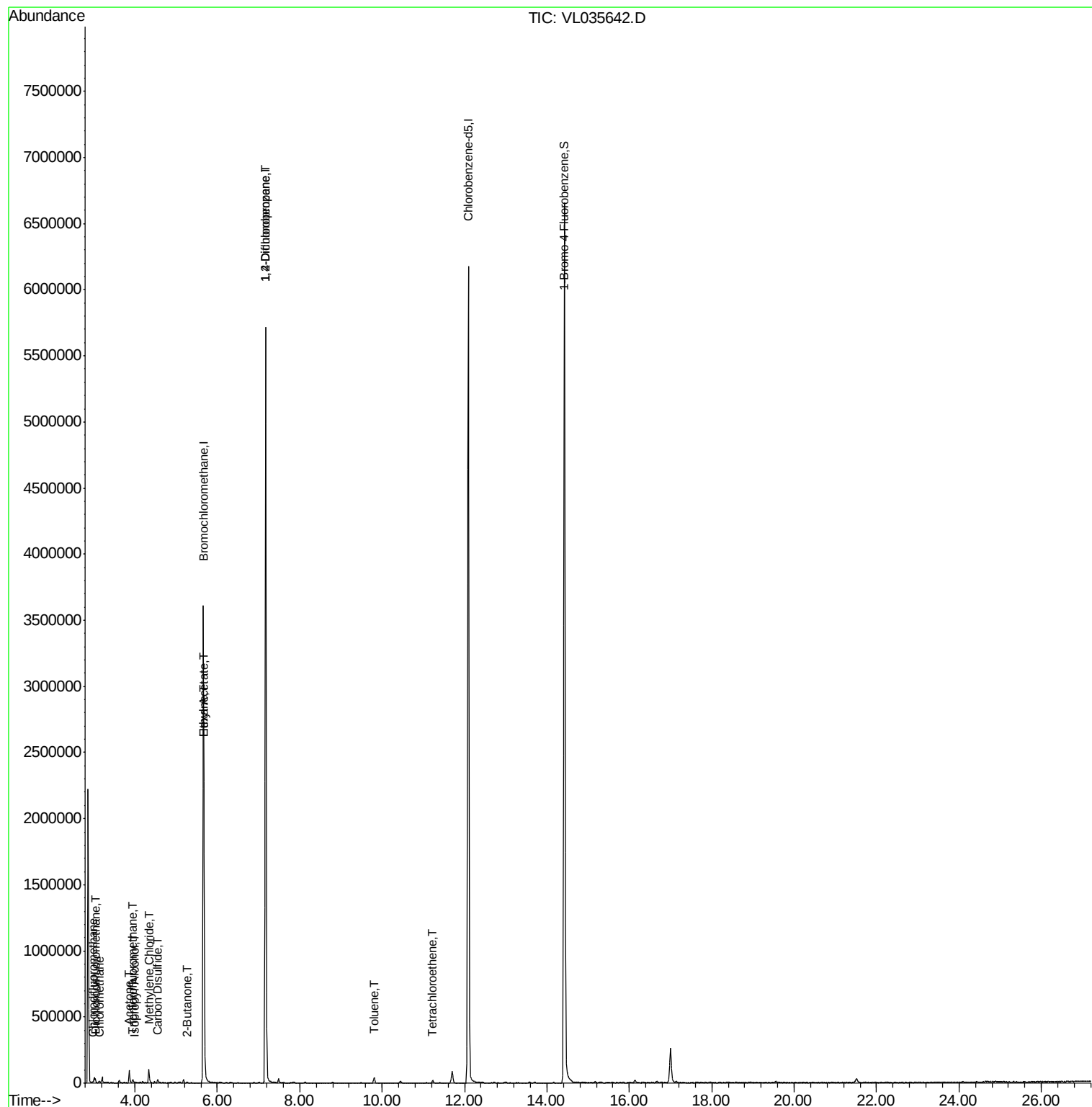
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	21125	0.102	ppbv	95
3) Chlorodifluoromethane	2.98	51	10090	0.077	ppbv	93
4) Chloromethane	3.13	50	8210	0.116	ppbv	93
11) Trichlorofluoromethane	3.94	101	16109	0.054	ppbv	97
15) Acetone	3.86	43	84544	0.644	ppbv	89
19) Isopropyl Alcohol	3.99	45	2634	0.034	ppbv #	93
20) Methylene Chloride	4.34	84	46956	0.480	ppbv	97
25) Ethyl Acetate	5.68	43	33825	0.146	ppbv #	74
26) Hexane	5.68	57	53840	0.409	ppbv #	47
27) Carbon Disulfide	4.55	76	18718	0.099	ppbv #	71
34) 2-Butanone	5.26	43	4828	0.035	ppbv #	72
39) 1,2-Dichloropropane	7.17	63	889785	8.861	ppbv #	32
52) Tetrachloroethene	11.23	164	5374	0.031	ppbv #	81
53) Toluene	9.81	91	35307	0.094	ppbv	94

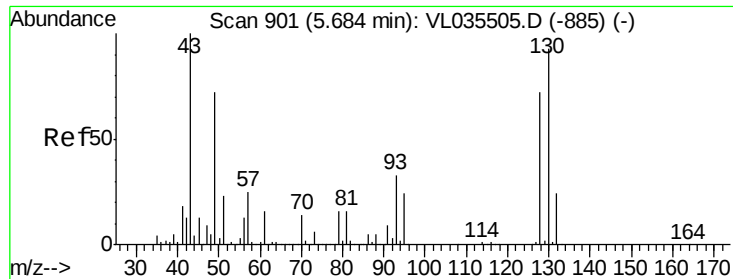
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Sep 14 15:19:50 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.00 min

Lab File: VL035642.D

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Instrument :

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ClientSampleId :

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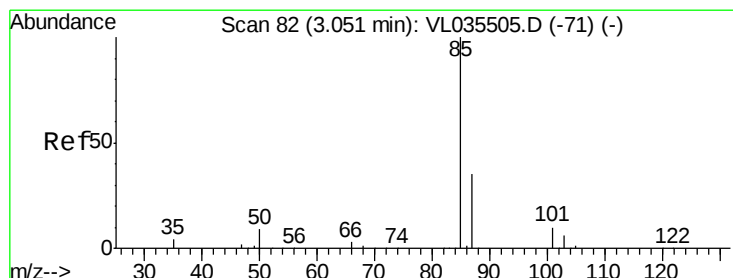
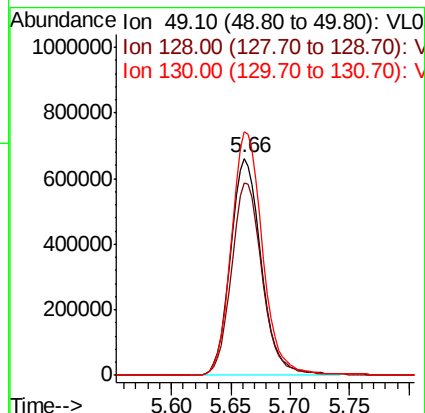
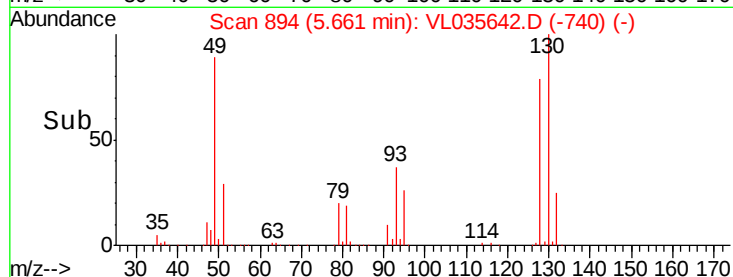
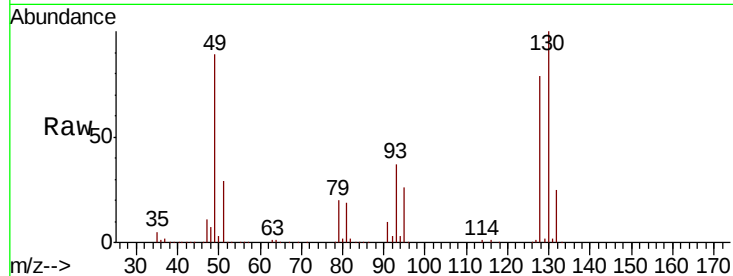
Tot Ion: 49 Resp: 1191215

Ion Ratio Lower Upper

49 100

128 89.7 50.0 150.1

130 114.7 64.4 193.2



#2

Dichlorodifluoromethane

Concen: 0.102 ppbv

RT: 3.04 min Scan# 80

Delta R.T. 0.01 min

Lab File: VL035642.D

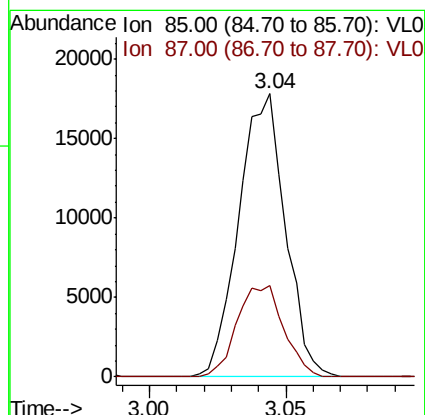
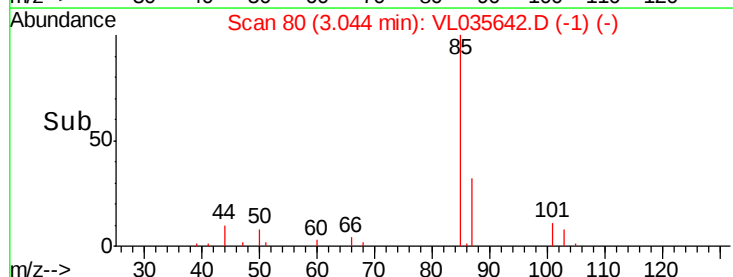
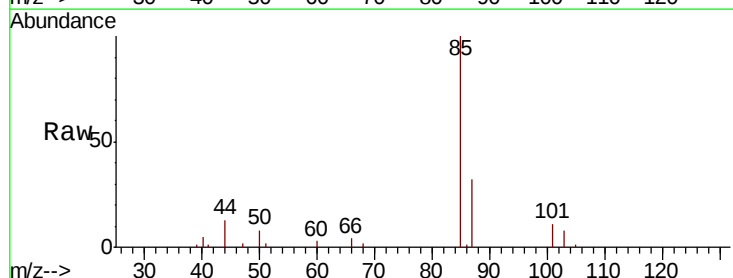
Acq: 16 Sep 2020 23:42

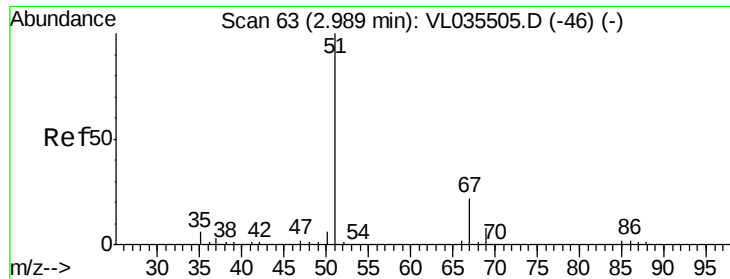
Tgt Ion: 85 Resp: 21125

Ion Ratio Lower Upper

85 100

87 32.1 28.0 42.0





#3

Chlorodifluoromethane

Concen: 0.077 ppbv

RT: 2.98 min Scan# 60

Delta R.T. 0.01 min

Lab File: VL035642.D

Acq: 16 Sep 2020 23:42

Instrument :

MSVOA_L

ClientSampleId :

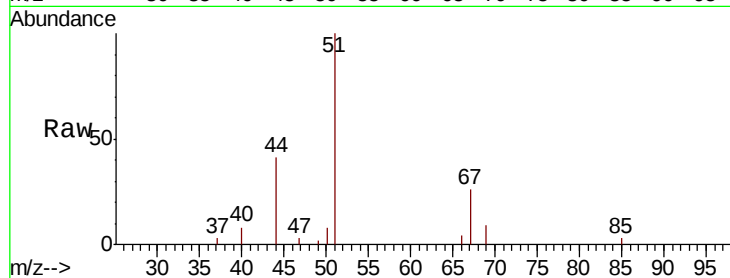
DB-IA-Y03DL

Tot Ion: 51 Resp: 10090

Ion Ratio Lower Upper

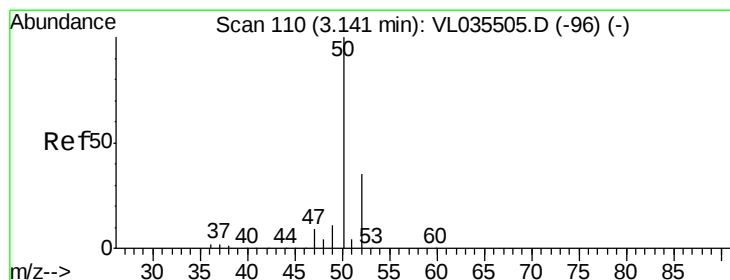
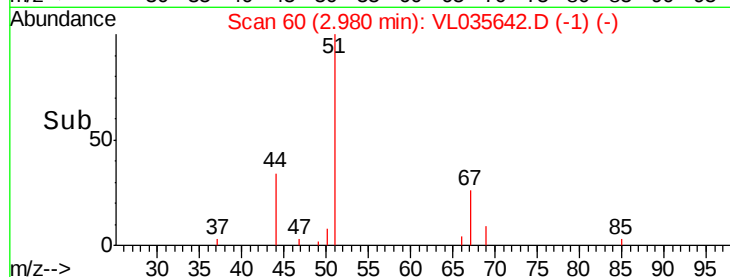
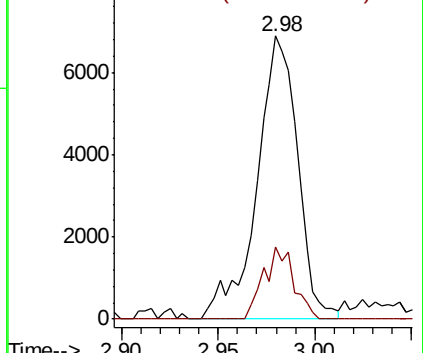
51 100

67 18.8 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: 0.116 ppbv

RT: 3.13 min Scan# 107

Delta R.T. 0.00 min

Lab File: VL035642.D

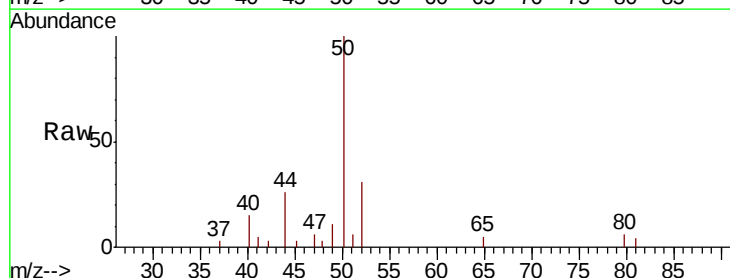
Acq: 16 Sep 2020 23:42

Tgt Ion: 50 Resp: 8210

Ion Ratio Lower Upper

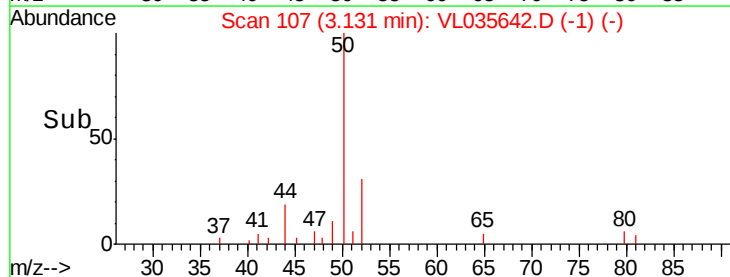
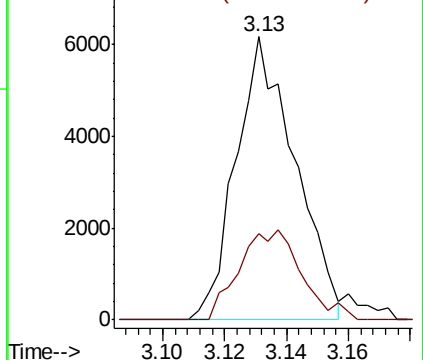
50 100

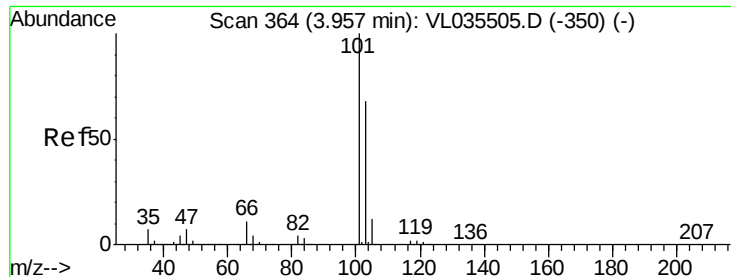
52 30.6 27.7 41.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

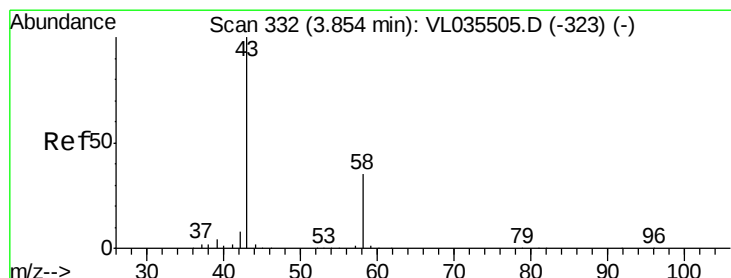
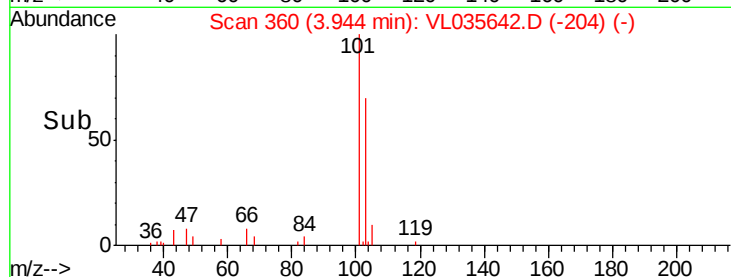
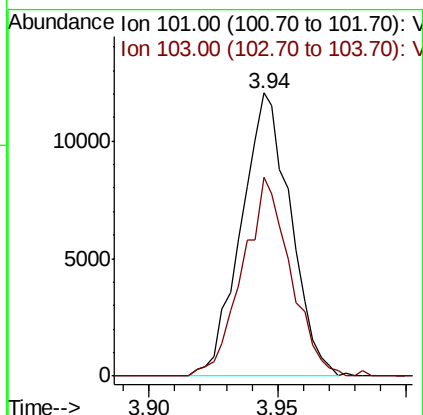
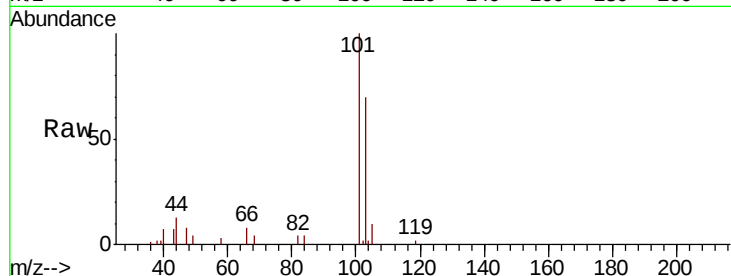




#11
 Trichlorofluoromethane
 Concen: 0.054 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. 0.00 min
 Lab File: VL035642.D
 Acq: 16 Sep 2020 23:42

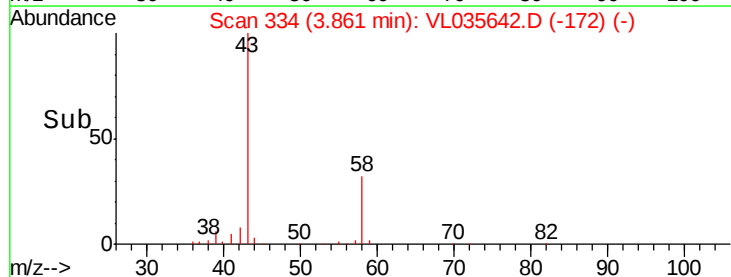
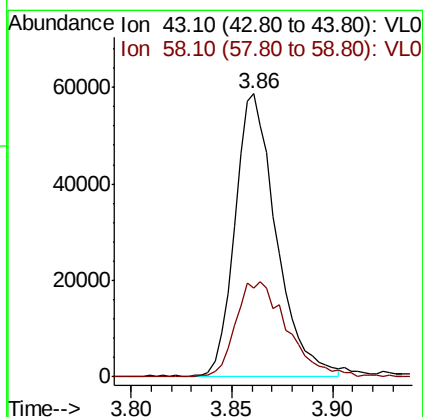
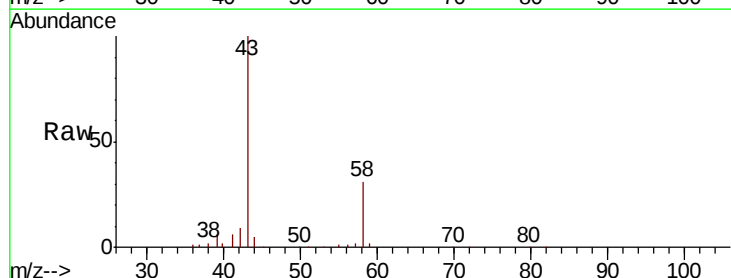
Instrument :
 MSVOA_L
 ClientSampleId :
 DB-IA-Y03DL

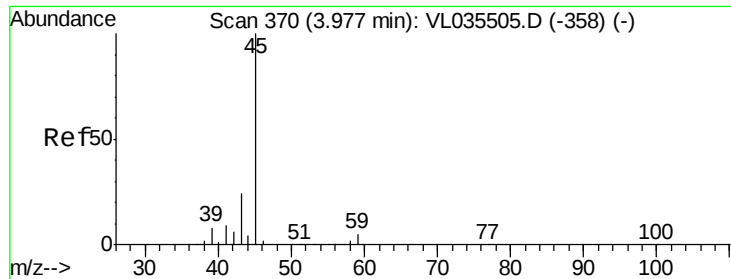
Tot Ion:101 Resp: 16109
 Ion Ratio Lower Upper
 101 100
 103 70.2 54.5 81.7



#15
 Acetone
 Concen: 0.644 ppbv
 RT: 3.86 min Scan# 334
 Delta R.T. 0.02 min
 Lab File: VL035642.D
 Acq: 16 Sep 2020 23:42

Tgt Ion: 43 Resp: 84544
 Ion Ratio Lower Upper
 43 100
 58 42.0 28.4 42.6





#19

Isopropyl Alcohol

Concen: 0.034 ppbv

RT: 3.99 min Scan# 373

Delta R.T. 0.03 min

Lab File: VL035642.D

Acq: 16 Sep 2020 23:42

Instrument :

MSVOA_L

ClientSampleId :

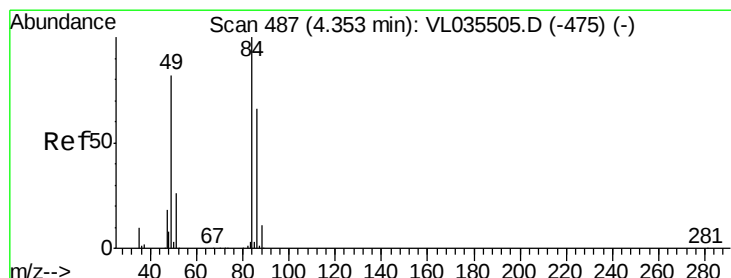
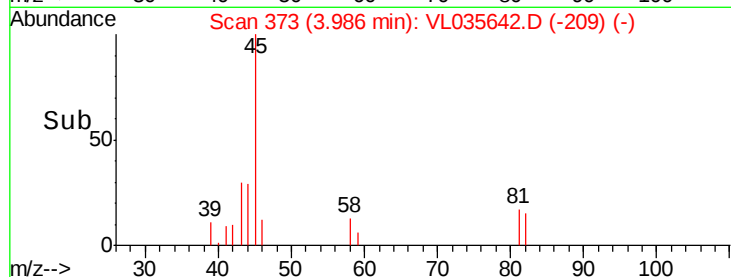
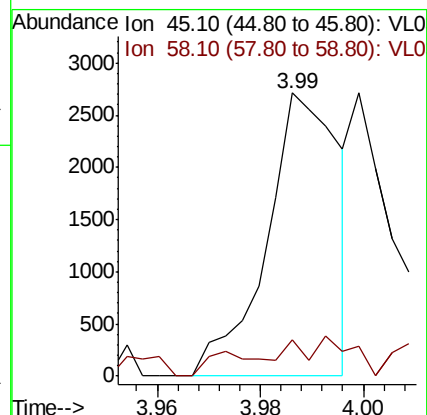
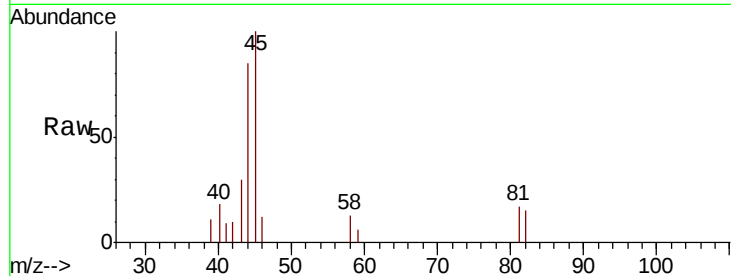
DB-IA-Y03DL

Tot Ion: 45 Resp: 2634

Ion Ratio Lower Upper

45 100

58 0.0 2.0 3.0#



#20

Methylene Chloride

Concen: 0.480 ppbv

RT: 4.34 min Scan# 483

Delta R.T. 0.00 min

Lab File: VL035642.D

Acq: 16 Sep 2020 23:42

Tgt Ion: 84 Resp: 46956

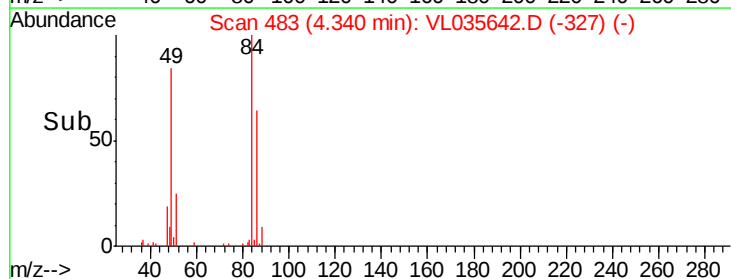
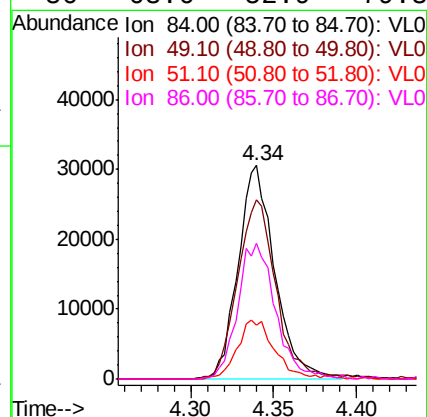
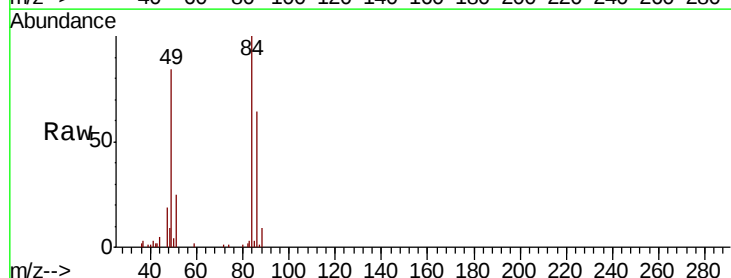
Ion Ratio Lower Upper

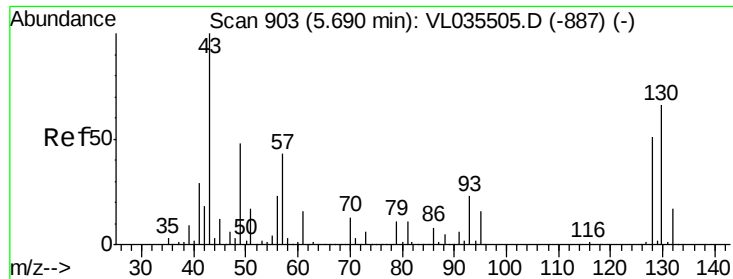
84 100

49 83.9 65.4 98.0

51 25.0 21.5 32.3

86 63.6 52.9 79.3

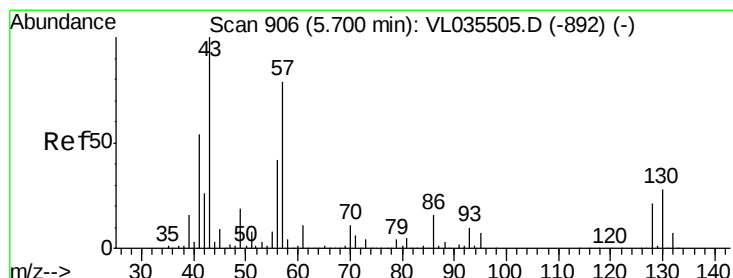
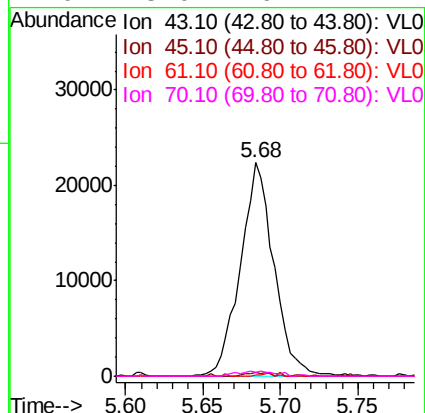
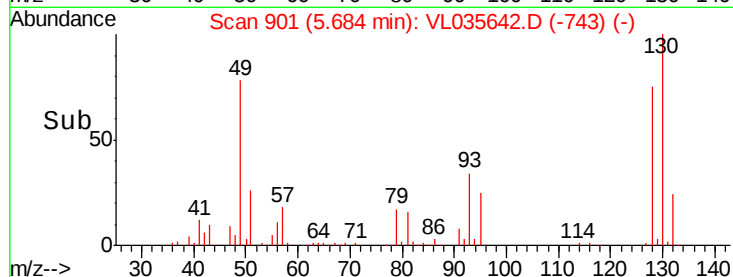
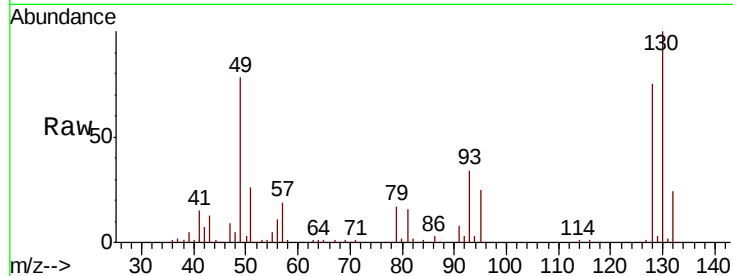




#25
Ethyl Acetate
Concen: 0.146 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.01 min
Lab File: VL035642.D
Acq: 16 Sep 2020 23:42

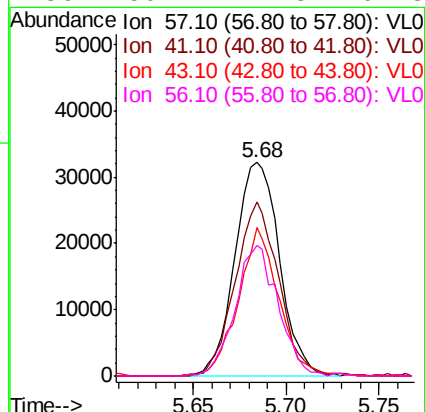
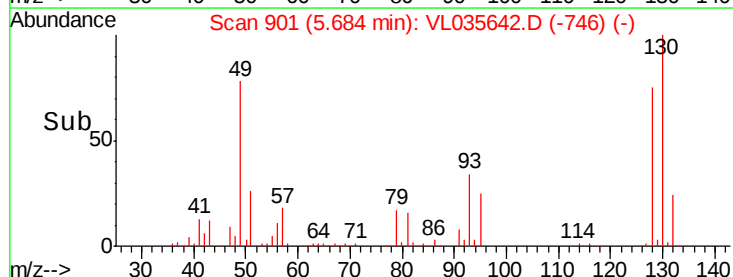
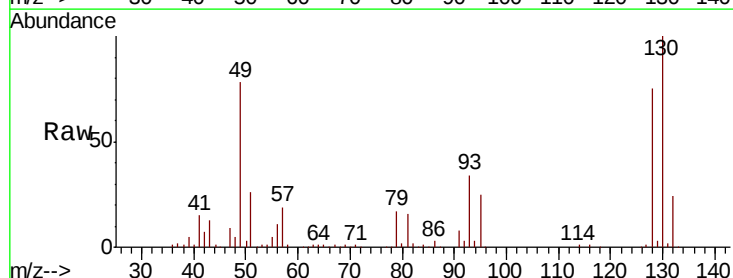
Instrument :
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ClientSampleId :
DB-IA-Y03DL

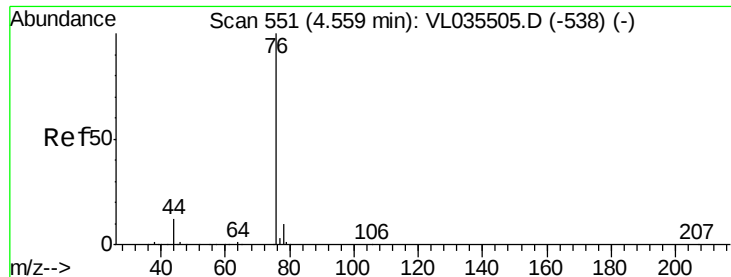
Tot Ion: 43 Resp: 33825
Ion Ratio Lower Upper
43 100
45 1.3 8.4 12.6#
61 0.8 10.6 16.0#
70 3.0 9.4 14.2#



#26
Hexane
Concen: 0.409 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL035642.D
Acq: 16 Sep 2020 23:42

Tgt Ion: 57 Resp: 53840
Ion Ratio Lower Upper
57 100
41 79.7 55.9 83.9
43 63.1 141.8 212.8#
56 59.1 41.8 62.8





#27

Carbon Disulfide

Concen: 0.099 ppbv

RT: 4.55 min Scan# 547

Delta R.T. 0.00 min

Lab File: VL035642.D

Acq: 16 Sep 2020 23:42

Instrument :

MSVOA_L

ClientSampleID :

DB-IA-Y03DL

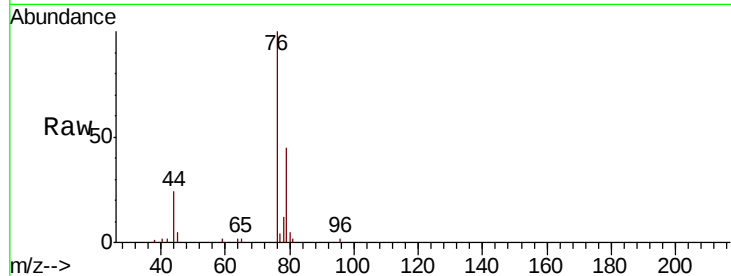
Tot Ion: 76 Resp: 18718

Ion Ratio Lower Upper

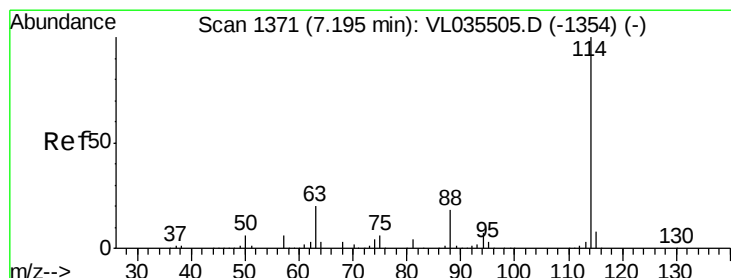
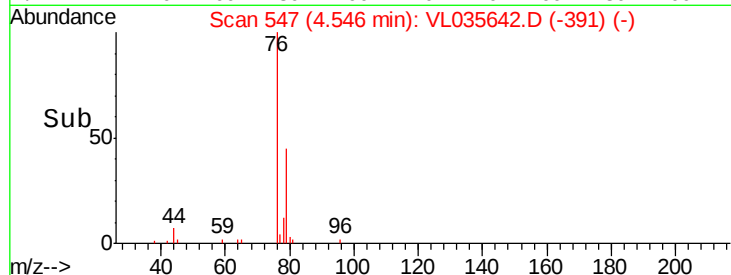
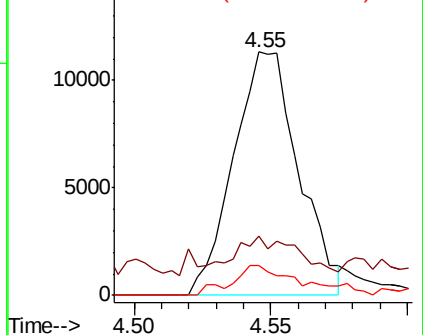
76 100

44 27.6 9.3 13.9#

78 15.0 7.8 11.6#



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.00 min

Lab File: VL035642.D

Acq: 16 Sep 2020 23:42

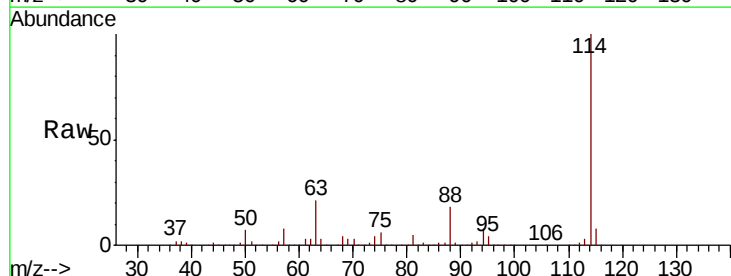
Tgt Ion: 114 Resp: 4591927

Ion Ratio Lower Upper

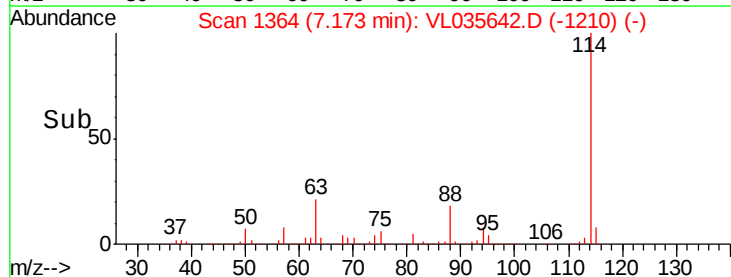
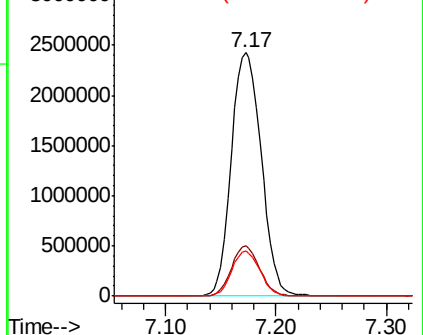
114 100

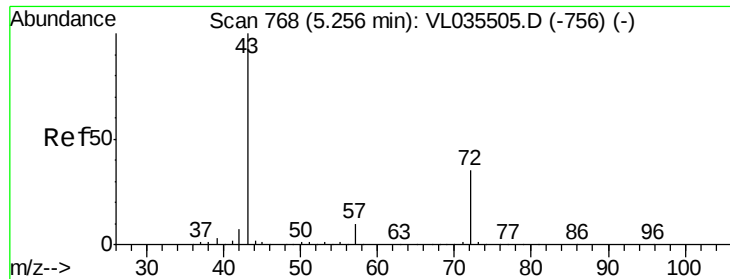
63 19.5 14.7 22.1

88 17.4 13.4 20.2



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





#34

2-Butanone

Concen: 0.035 ppbv

RT: 5.26 min Scan# 770

Delta R.T. 0.02 min

Lab File: VL035642.D

Acq: 16 Sep 2020 23:42

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ClientSampleId :

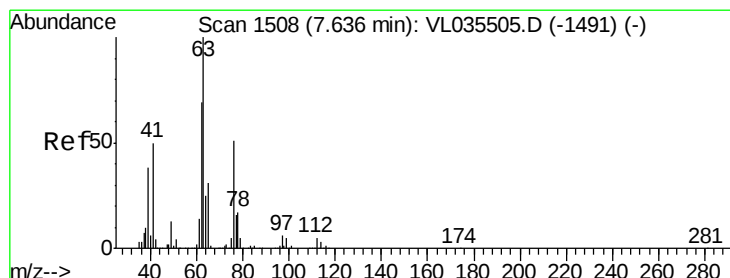
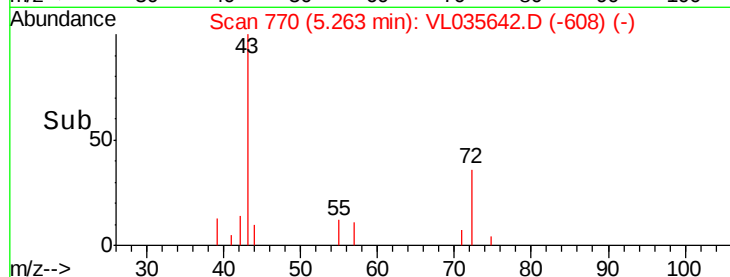
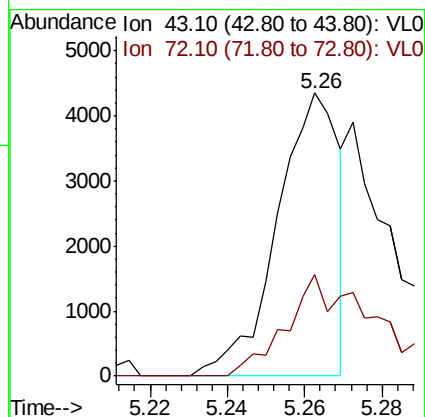
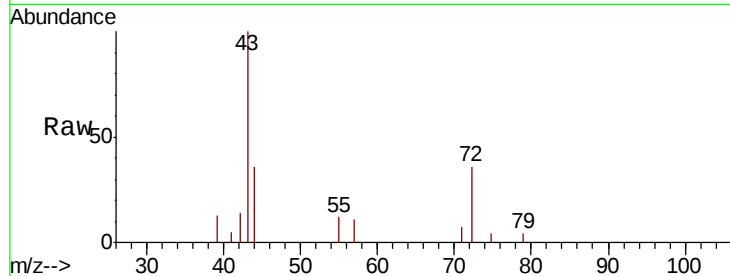
DB-IA-Y03DL

Tot Ion: 43 Resp: 4828

Ion Ratio Lower Upper

43 100

72 50.9 27.7 41.5#



#39

1,2-Dichloropropane

Concen: 8.861 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.44 min

Lab File: VL035642.D

Acq: 16 Sep 2020 23:42

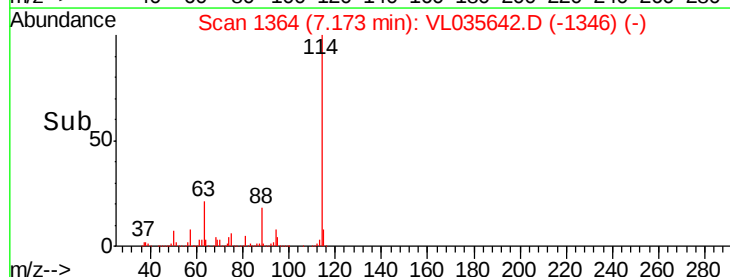
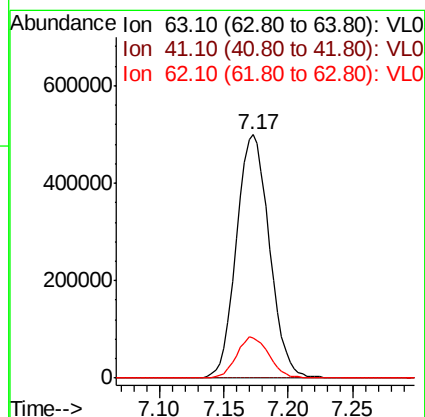
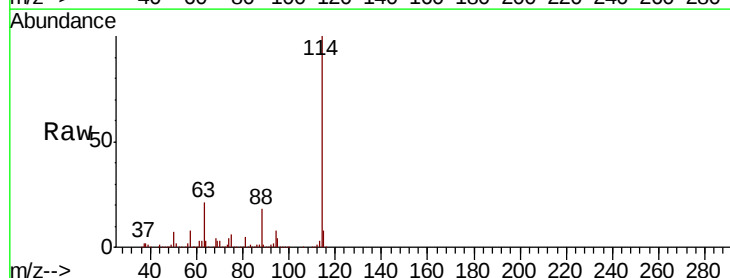
Tgt Ion: 63 Resp: 889785

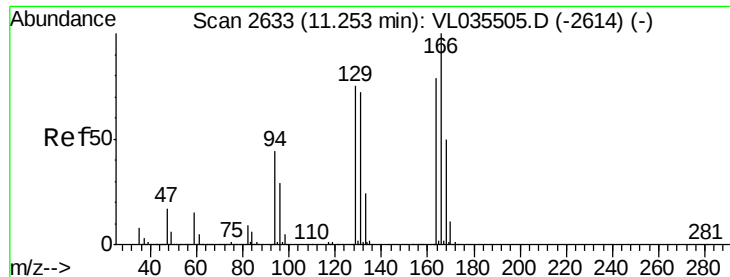
Ion Ratio Lower Upper

63 100

41 0.0 40.0 60.0#

62 16.6 55.4 83.0#





#52

Tetrachloroethene

Concen: 0.031 ppbv

RT: 11.23 min Scan# 2625

Delta R.T. -0.00 min

Lab File: VL035642.D

Acq: 16 Sep 2020 23:42

Instrument :

MSVOA_L

ClientSampleId :

DB-IA-Y03DL

Tot Ion:164 Resp: 5374

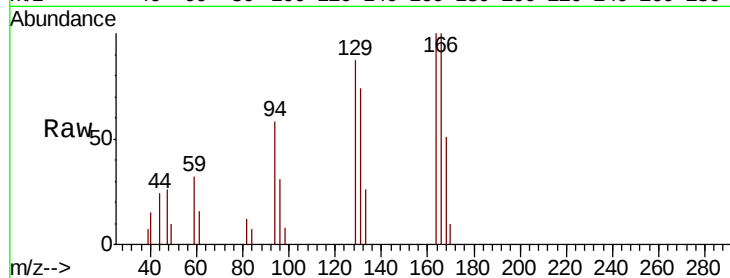
Ion Ratio Lower Upper

164 100

166 99.8 100.9 151.3#

129 79.2 75.3 112.9

131 74.2 73.0 109.4

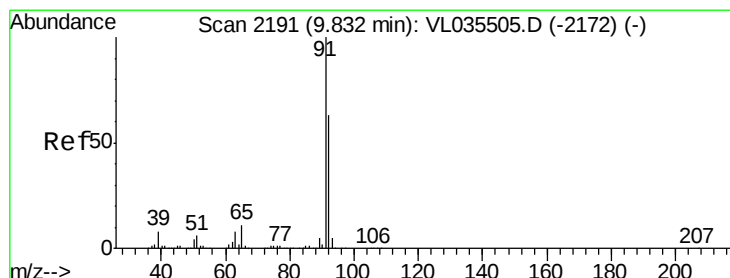
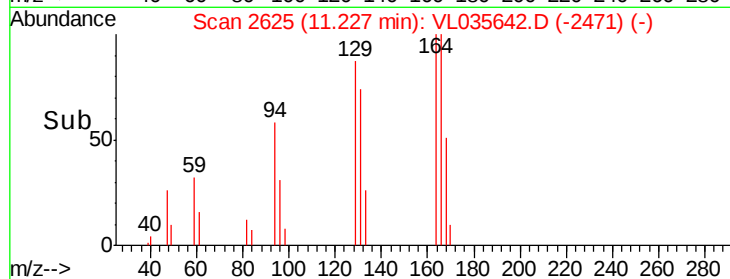
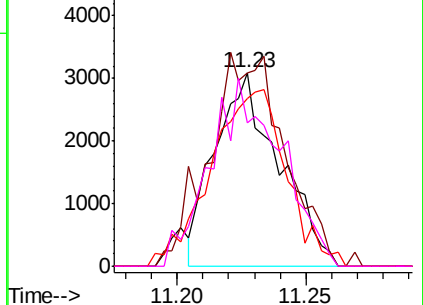


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.094 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.00 min

Lab File: VL035642.D

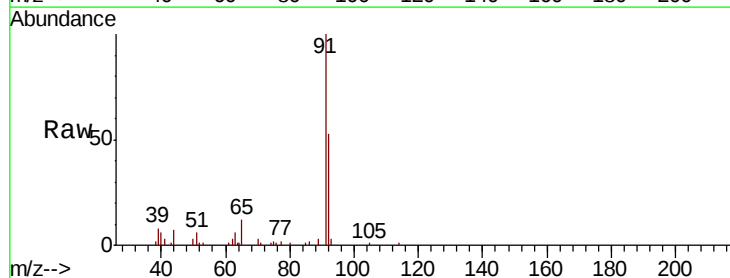
Acq: 16 Sep 2020 23:42

Tgt Ion: 91 Resp: 35307

Ion Ratio Lower Upper

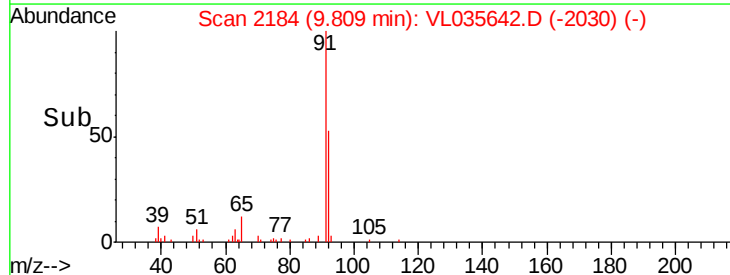
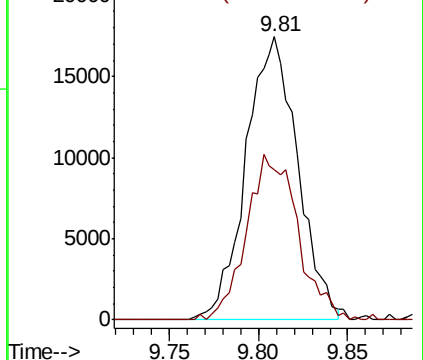
91 100

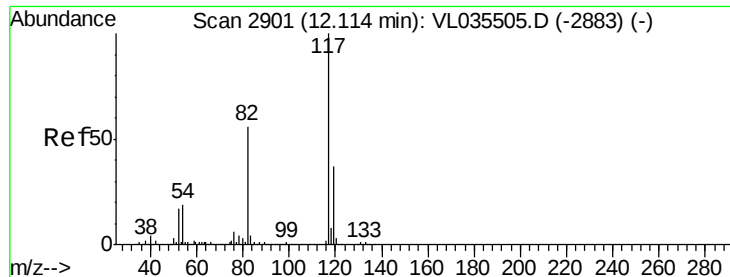
92 58.1 49.8 74.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

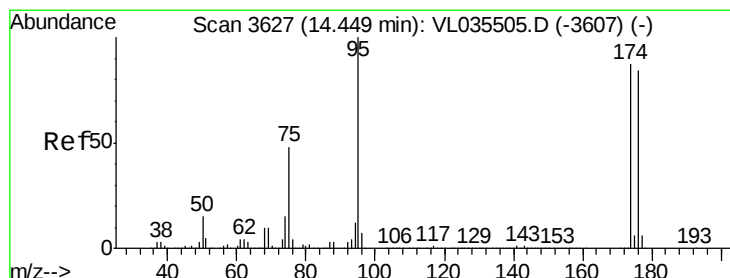
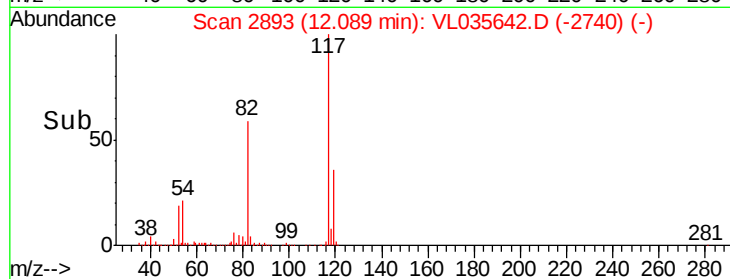
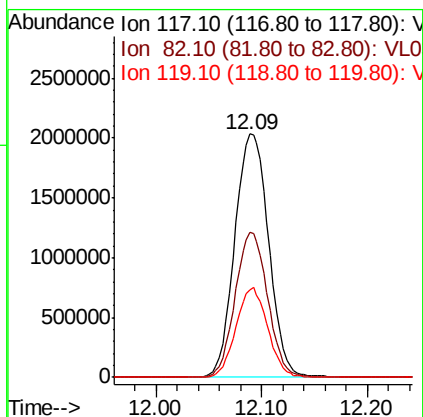
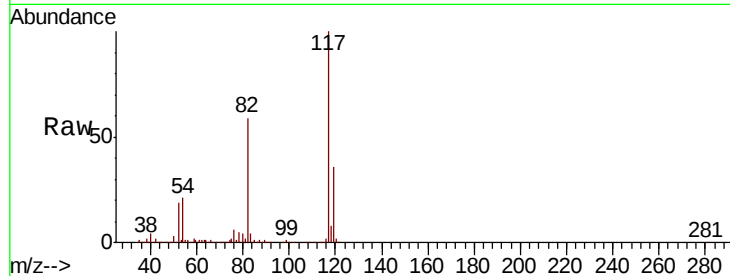




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL035642.D
Acq: 16 Sep 2020 23:42

Instrument :
MSVOA_L
ClientSampleId :
DB-IA-Y03DL

Tot Ion:117 Resp: 4540264
Ion Ratio Lower Upper
117 100
82 57.6 41.6 62.4
119 34.7 29.3 43.9



#68
1-Bromo-4-Fluorobenzene
Concen: 10.365 ppbv
RT: 14.42 min Scan# 3619
Delta R.T. -0.01 min
Lab File: VL035642.D
Acq: 16 Sep 2020 23:42

Tgt Ion: 95 Resp: 3341821
Ion Ratio Lower Upper
95 100
174 79.1 69.6 104.4
175 5.7 5.1 7.7

