

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040721\
 Data File : VL036732.D
 Acq On : 7 Apr 2021 18:43
 Operator : SY/AP
 Sample : M1929-02DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 FS-SV-04DL

Quant Time: Apr 08 02:42:22 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Apr 08 01:58:43 2021
 QLast Update : Thu Apr 08 01:58:43 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1281657	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3171157	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2713069	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2051280	9.49	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.90%

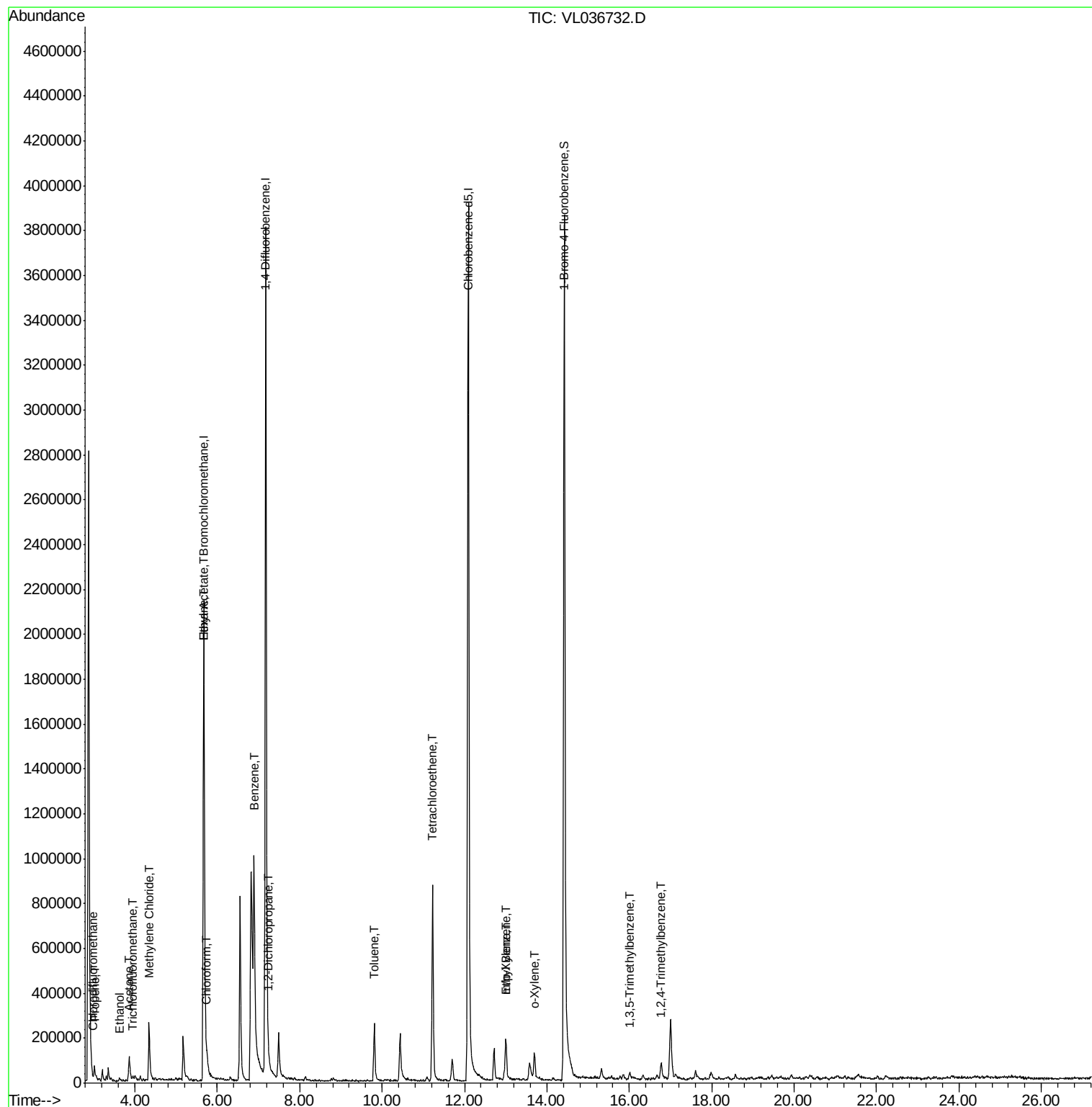
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.99	51	8469	0.035	ppbv #	86
9) Propene	3.02	41	21348	0.280	ppbv	94
11) Trichlorofluoromethane	3.95	101	9454	0.044	ppbv #	78
13) Ethanol	3.62	45	7695	0.846	ppbv	63
15) Acetone	3.86	43	117870	0.934	ppbv #	63
20) Methylene Chloride	4.35	84	100300	1.698	ppbv	97
25) Ethyl Acetate	5.69	43	47283	0.158	ppbv #	78
26) Hexane	5.69	57	70029	0.503	ppbv #	46
29) Chloroform	5.75	83	30992	0.139	ppbv #	81
36) Benzene	6.89	78	682200	2.333	ppbv	96
39) 1,2-Dichloropropane	7.24	63	10666	0.090	ppbv #	32
52) Tetrachloroethene	11.23	164	217751	2.022	ppbv	96
53) Toluene	9.81	91	209387	0.672	ppbv	100
58) Ethyl Benzene	13.00	91	71821	0.182	ppbv	90
59) m/p-Xylene	13.00	91	71821	0.209	ppbv #	4
60) o-Xylene	13.70	91	48200	0.145	ppbv #	37
73) 1,3,5-Trimethylbenzene	16.00	105	12267	0.036	ppbv #	31
74) 1,2,4-Trimethylbenzene	16.77	105	12320	0.034	ppbv #	49

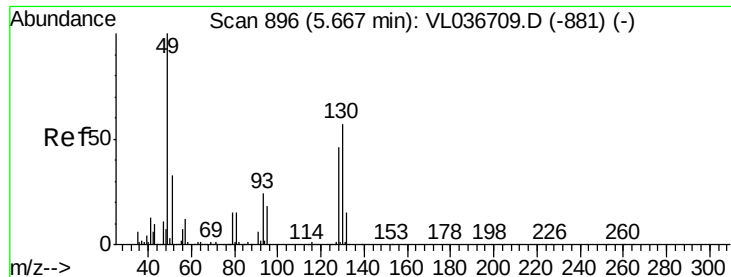
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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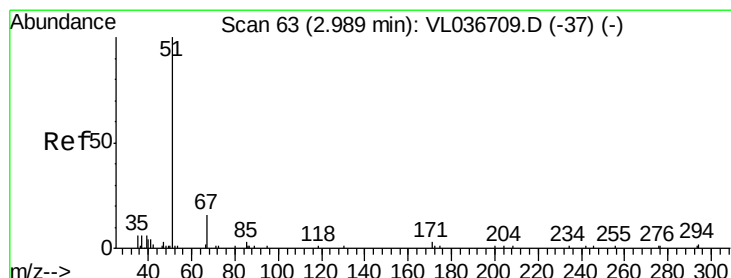
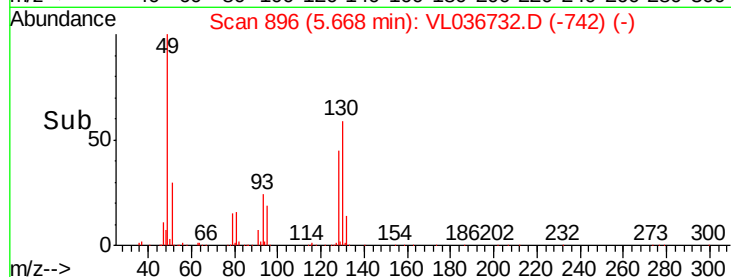
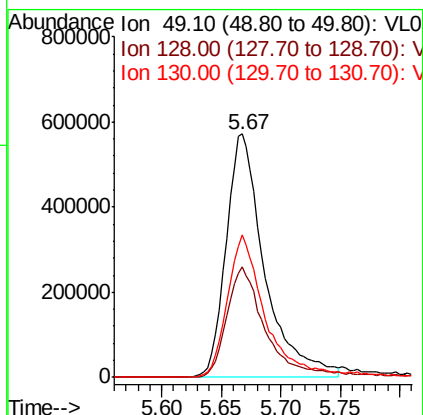
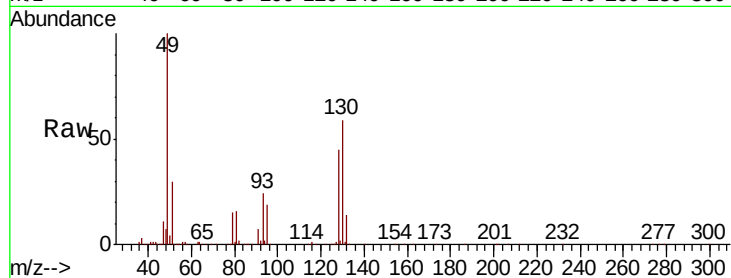




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.00 min
Lab File: VL036732.D
Acq: 7 Apr 2021 18:43

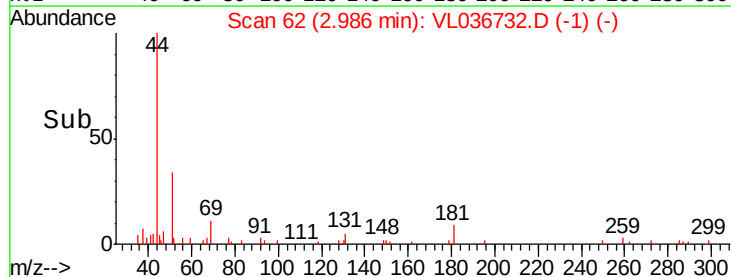
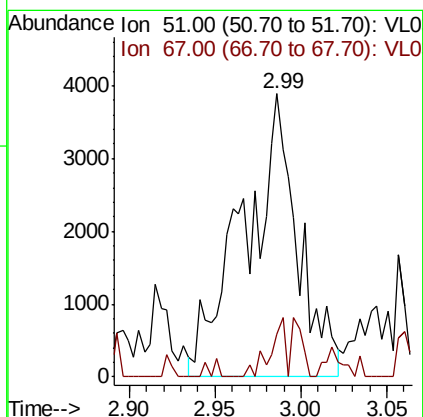
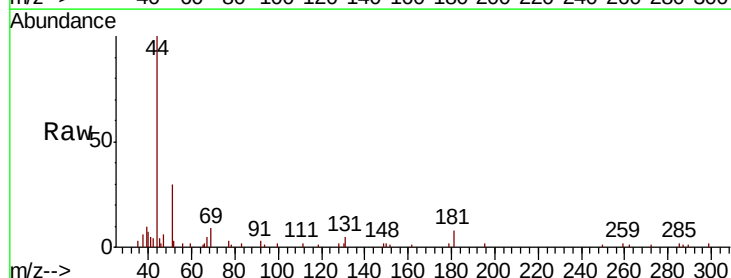
Instrument :
MSVOA_L
ClientSampleId :
FS-SV-04DL

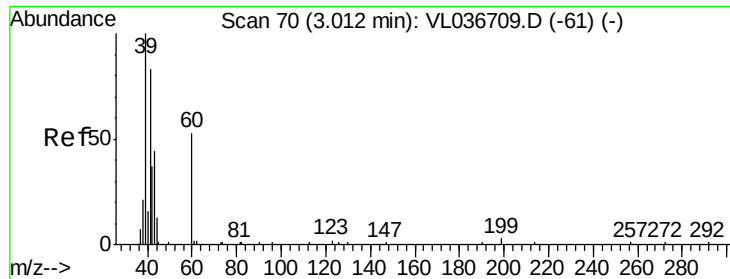
Tot Ion: 49 Resp: 1281657
Ion Ratio Lower Upper
49 100
128 46.7 23.5 70.6
130 58.6 29.1 87.4



#3
Chlorodifluoromethane
Concen: 0.035 ppbv
RT: 2.99 min Scan# 62
Delta R.T. -0.00 min
Lab File: VL036732.D
Acq: 7 Apr 2021 18:43

Tgt Ion: 51 Resp: 8469
Ion Ratio Lower Upper
51 100
67 12.2 14.7 22.1#





#9

Propene

Concen: 0.280 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL036732.D

Acq: 7 Apr 2021 18:43

Instrument :

MSVOA_L

ClientSampleId :

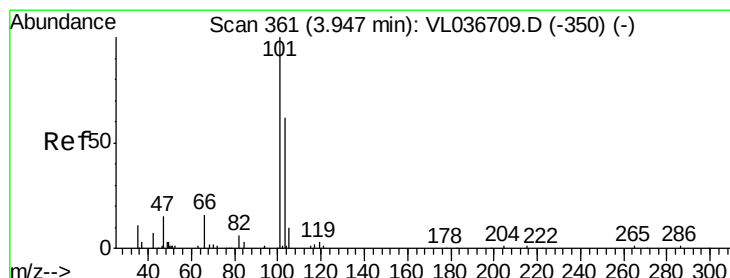
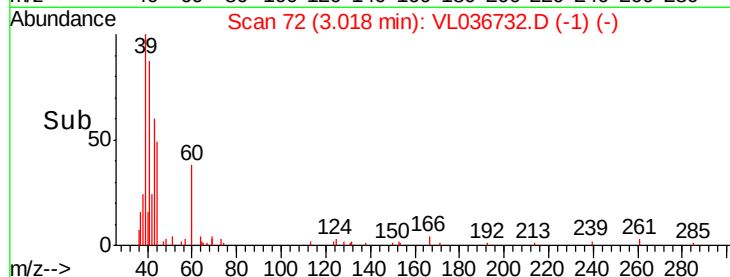
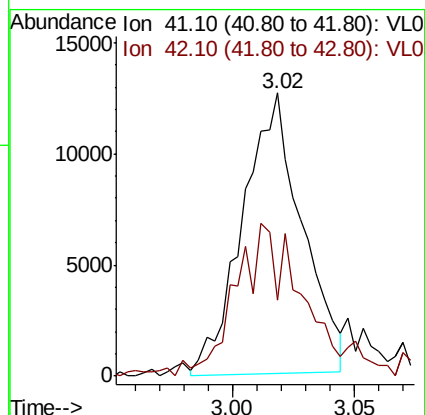
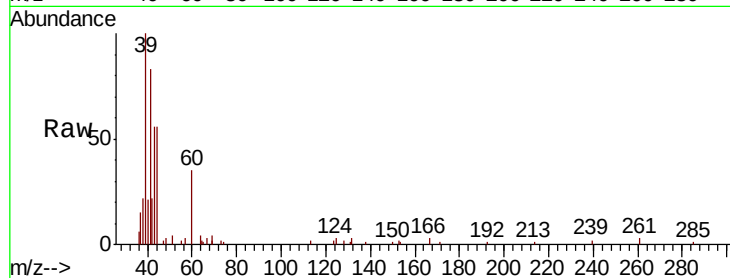
FS-SV-04DL

Tot Ion: 41 Resp: 21348

Ion Ratio Lower Upper

41 100

42 66.6 57.0 85.4



#11

Trichlorofluoromethane

Concen: 0.044 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.00 min

Lab File: VL036732.D

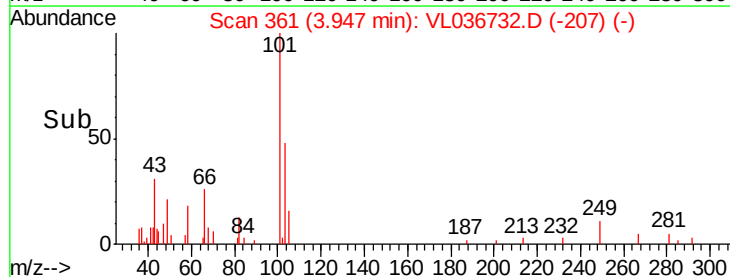
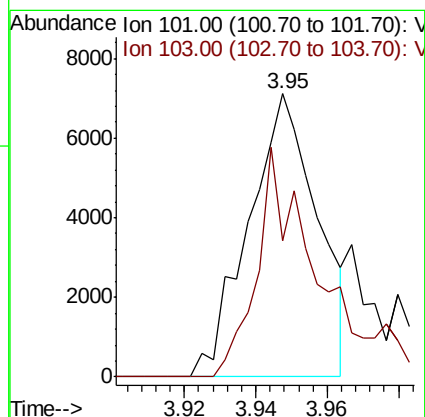
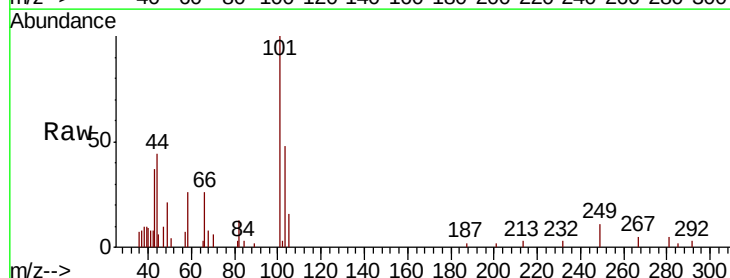
Acq: 7 Apr 2021 18:43

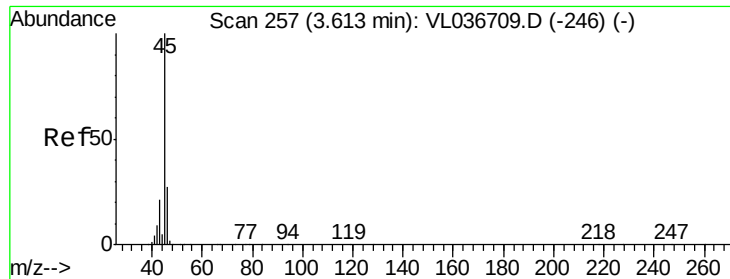
Tgt Ion: 101 Resp: 9454

Ion Ratio Lower Upper

101 100

103 48.3 52.5 78.7#

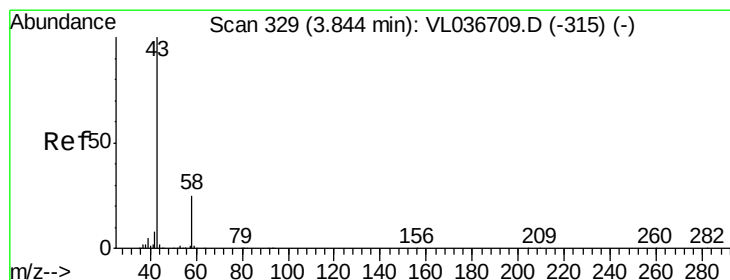
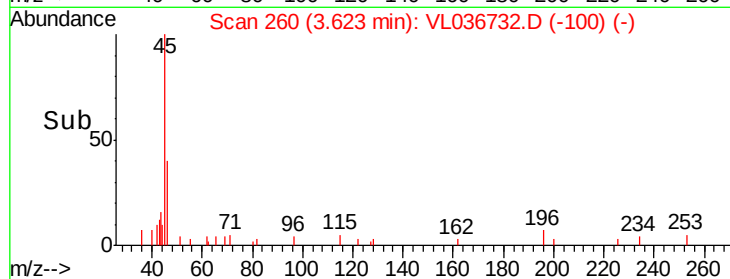
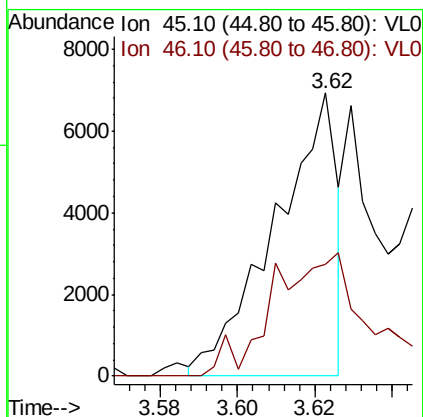
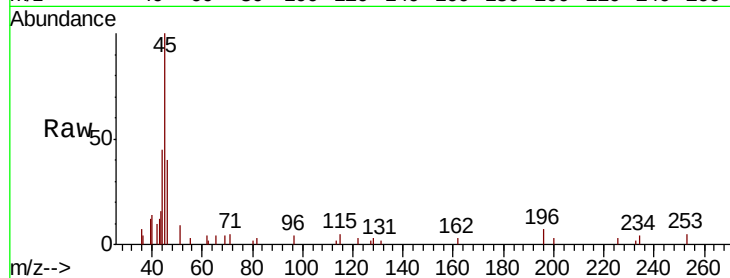




#13
Ethanol
Concen: 0.846 ppbv
RT: 3.62 min Scan# 260
Delta R.T. 0.02 min
Lab File: VL036732.D
Acq: 7 Apr 2021 18:43

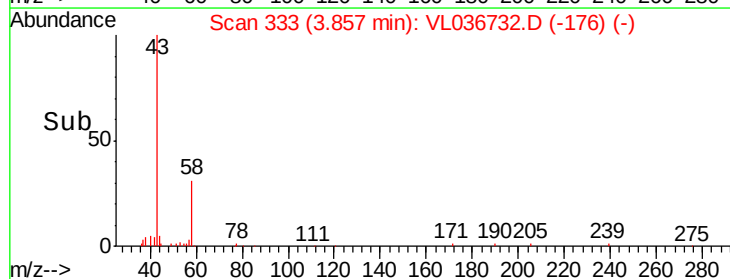
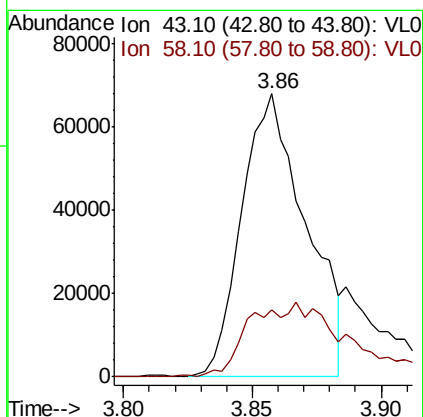
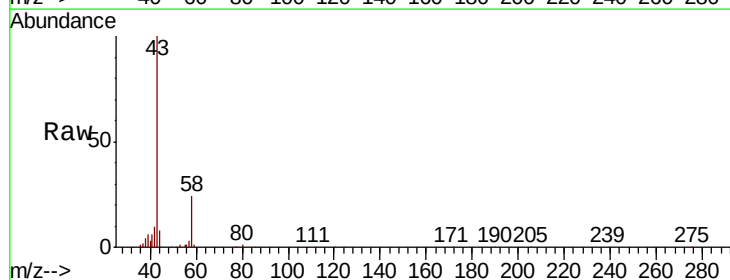
Instrument :
MSVOA_L
ClientSampleId :
FS-SV-04DL

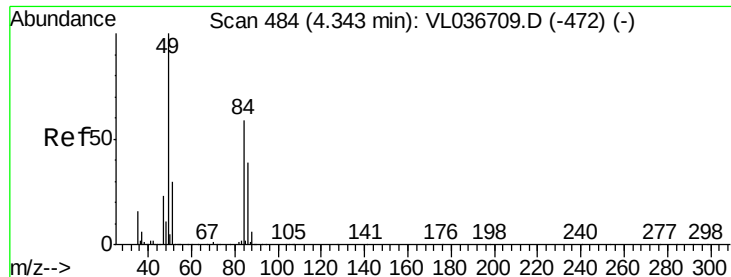
Tot Ion: 45 Resp: 7695
Ion Ratio Lower Upper
45 100
46 64.6 16.6 66.2



#15
Acetone
Concen: 0.934 ppbv
RT: 3.86 min Scan# 333
Delta R.T. 0.01 min
Lab File: VL036732.D
Acq: 7 Apr 2021 18:43

Tgt Ion: 43 Resp: 117870
Ion Ratio Lower Upper
43 100
58 45.3 21.2 31.8#

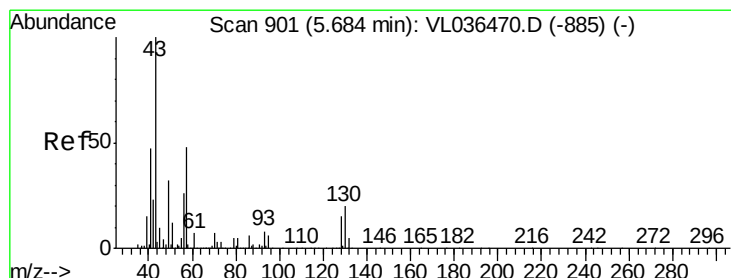
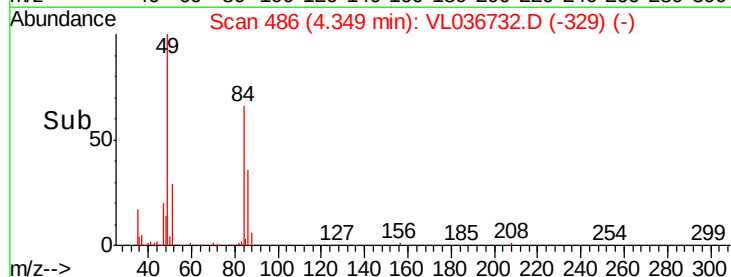
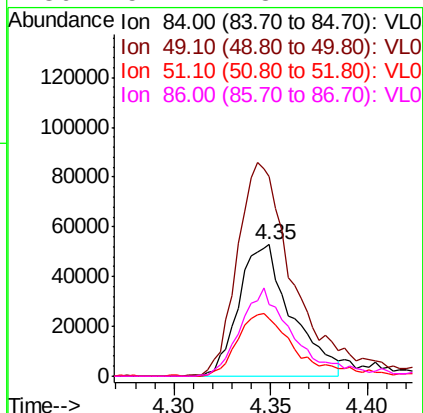
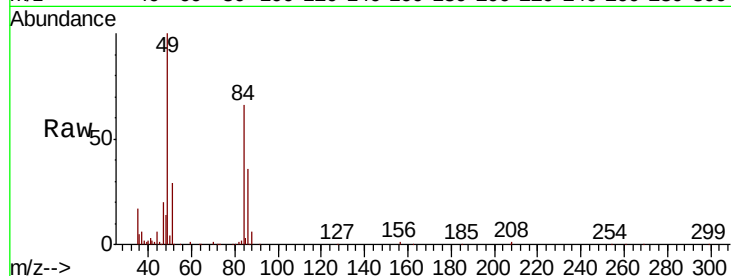




#20
Methylene Chloride
Concen: 1.698 ppbv
RT: 4.35 min Scan# 486
Delta R.T. 0.01 min
Lab File: VL036732.D
Acq: 7 Apr 2021 18:43

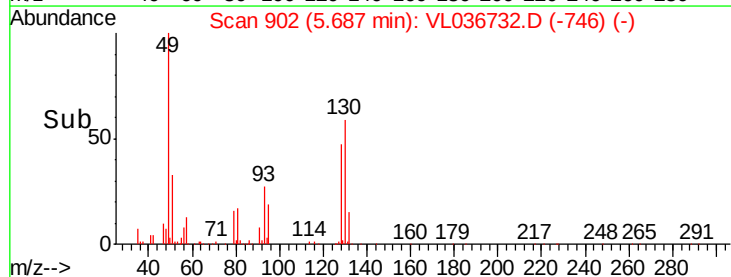
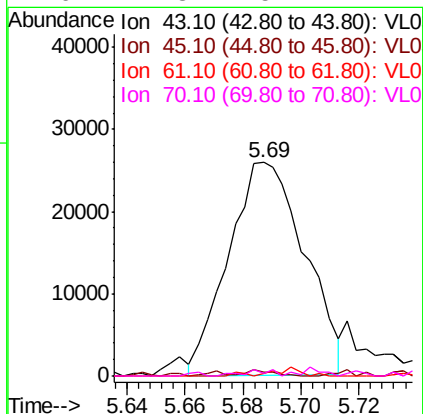
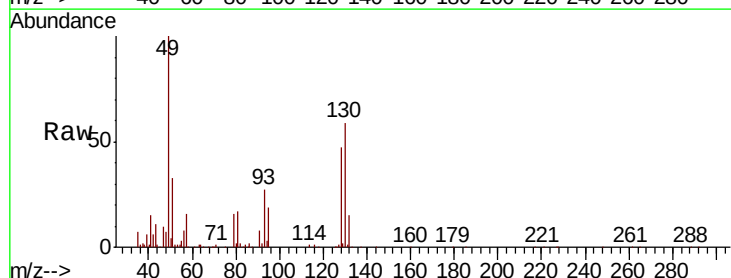
Instrument :
MSVOA_L
ClientSampled :
FS-SV-04DL

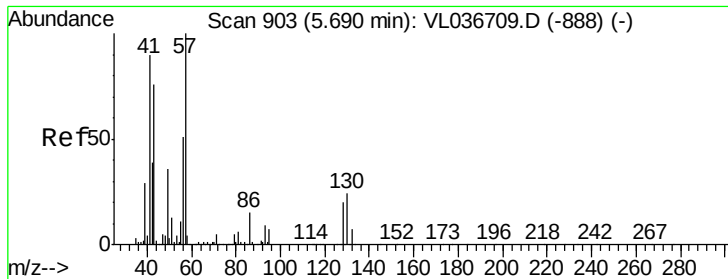
Tot Ion:	84	Resp:	100300
Ion	Ratio	Lower	Upper
84	100		
49	151.5	122.9	184.3
51	43.7	36.9	55.3
86	54.2	48.2	72.4



#25
Ethyl Acetate
Concen: 0.158 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.00 min
Lab File: VL036732.D
Acq: 7 Apr 2021 18:43

Tgt Ion:	43	Resp:	47283
Ion	Ratio	Lower	Upper
43	100		
45	1.1	7.9	11.9#
61	0.0	7.4	11.2#
70	1.3	5.1	7.7#





#26

Hexane

Concen: 0.503 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.00 min

Lab File: VL036732.D

Acq: 7 Apr 2021 18:43

Instrument :

MSVOA_L

ClientSampleId :

FS-SV-04DL

Tot Ion: 57 Resp: 70029

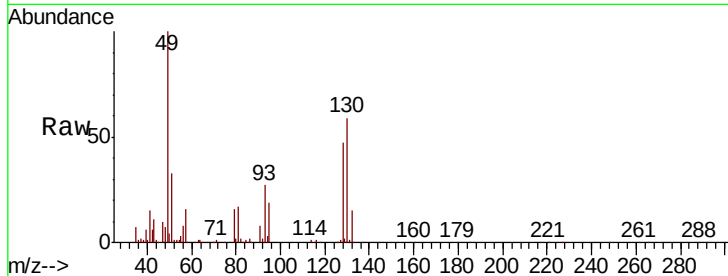
Ion Ratio Lower Upper

57 100

41 100.4 77.2 115.8

43 77.1 173.8 260.6#

56 59.5 43.8 65.6

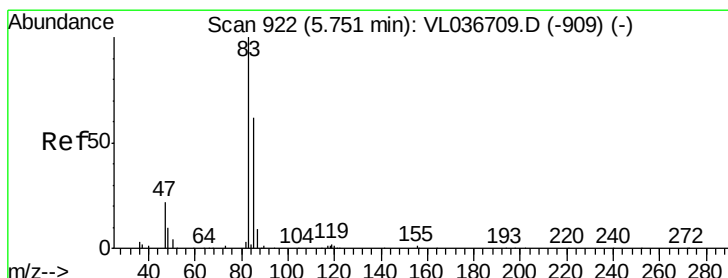
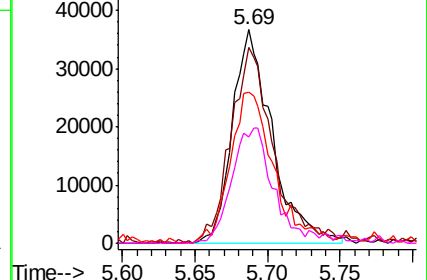
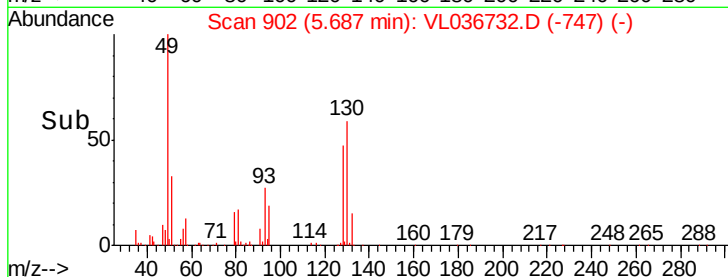


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#29

Chloroform

Concen: 0.139 ppbv

RT: 5.75 min Scan# 921

Delta R.T. -0.01 min

Lab File: VL036732.D

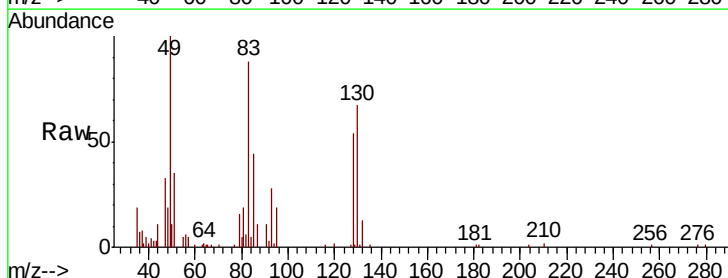
Acq: 7 Apr 2021 18:43

Tgt Ion: 83 Resp: 30992

Ion Ratio Lower Upper

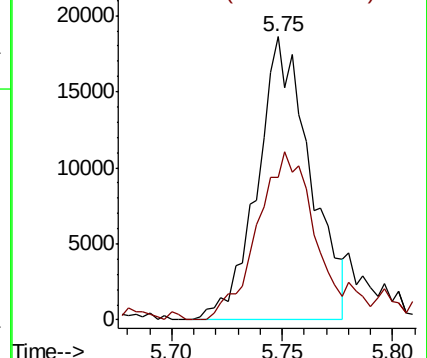
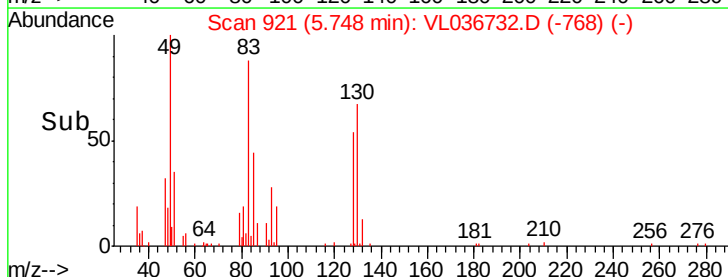
83 100

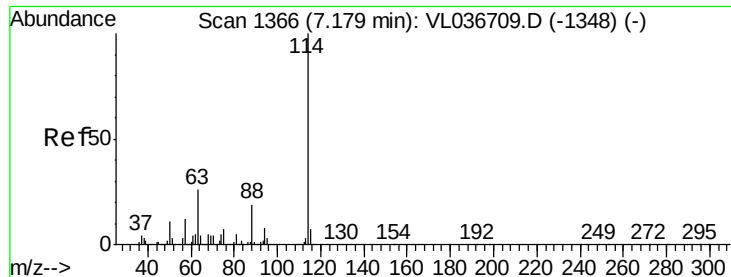
85 50.2 52.6 78.8#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



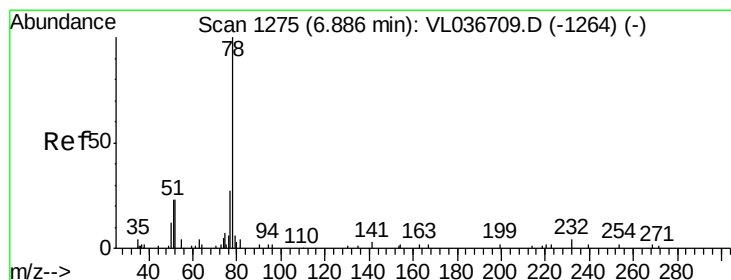
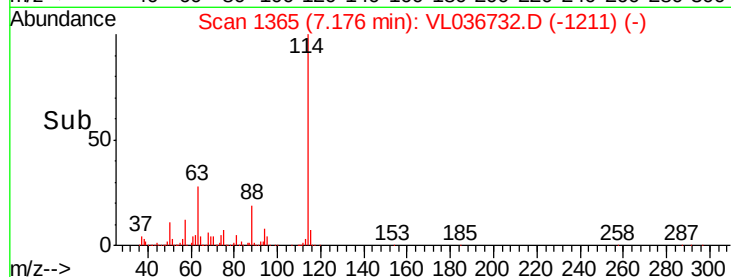
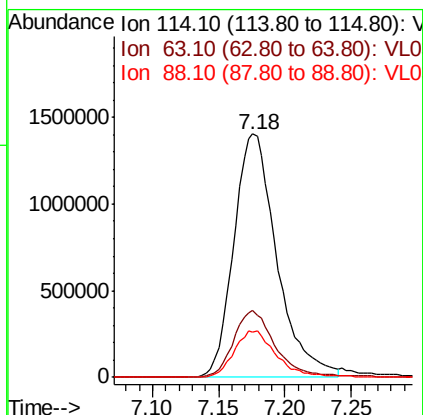
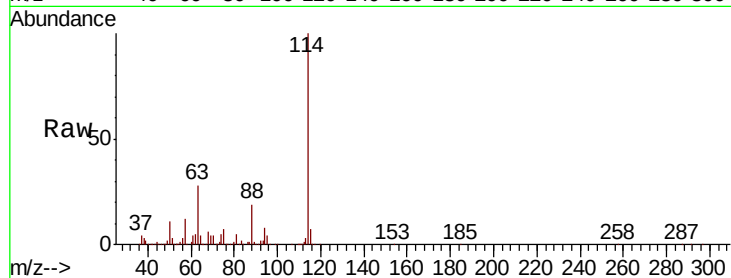


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.00 min
 Lab File: VL036732.D
 Acq: 7 Apr 2021 18:43

Instrument :
 MSVOA_L
 ClientSampleId :
 FS-SV-04DL

Tot Ion:114 Resp: 3171157

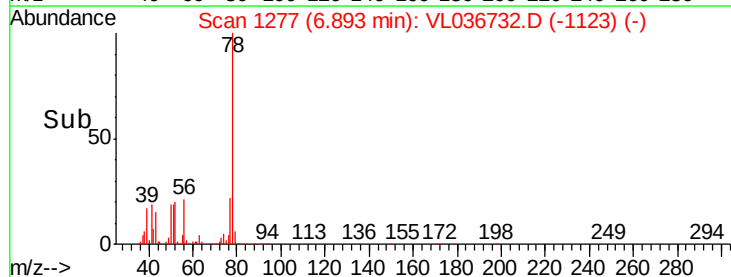
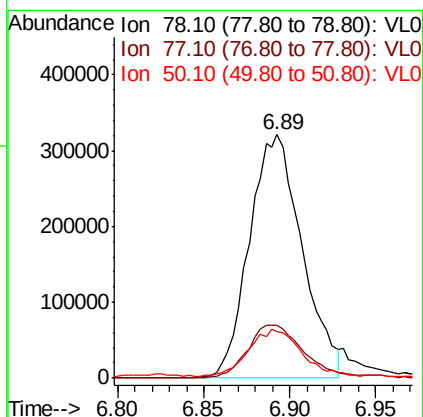
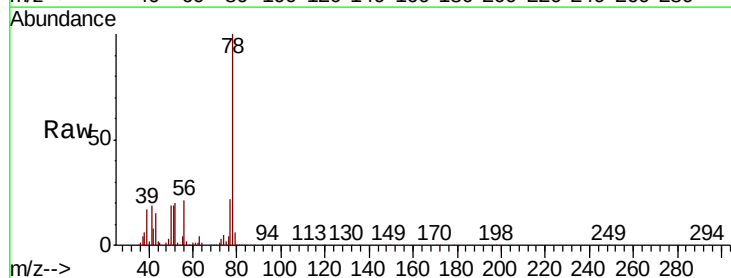
Ion	Ratio	Lower	Upper
114	100		
63	27.5	22.4	33.6
88	19.3	15.4	23.0

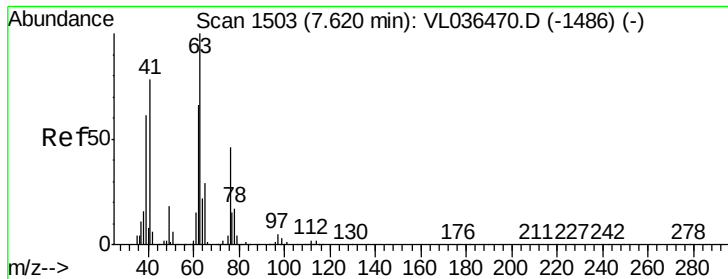


#36
 Benzene
 Concen: 2.333 ppbv
 RT: 6.89 min Scan# 1277
 Delta R.T. -0.00 min
 Lab File: VL036732.D
 Acq: 7 Apr 2021 18:43

Tgt Ion: 78 Resp: 682200

Ion	Ratio	Lower	Upper
78	100		
77	21.9	18.0	27.0
50	17.4	16.5	24.7





#39

1,2-Dichloropropane

Concen: 0.090 ppbv

RT: 7.24 min Scan# 1386

Delta R.T. -0.38 min

Lab File: VL036732.D

Acq: 7 Apr 2021 18:43

Instrument :

MSVOA_L

ClientSampleId :

FS-SV-04DL

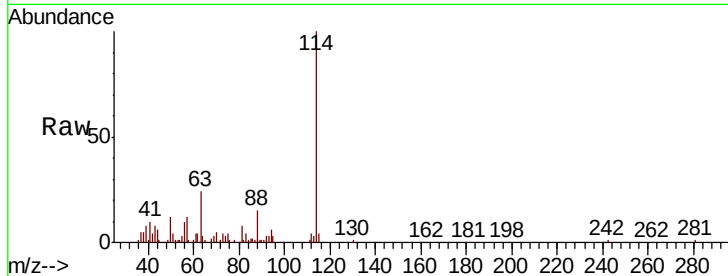
Tot Ion: 63 Resp: 10666

Ion Ratio Lower Upper

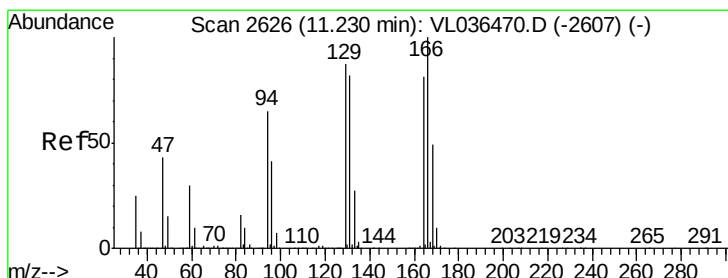
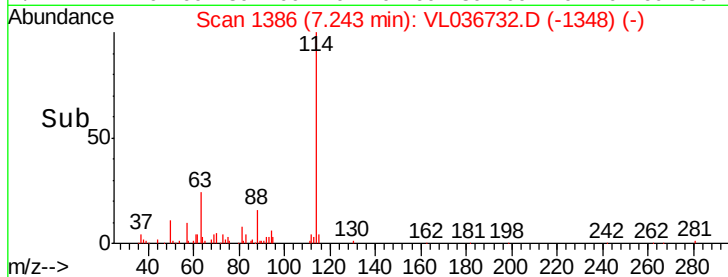
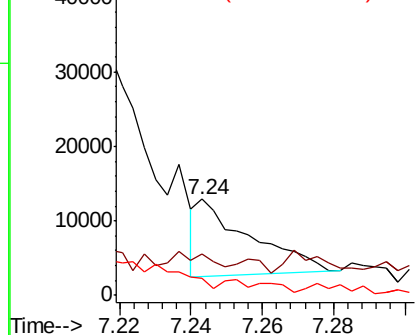
63 100

41 20.2 62.4 93.6#

62 9.8 52.8 79.2#



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: 2.022 ppbv

RT: 11.23 min Scan# 2625

Delta R.T. -0.00 min

Lab File: VL036732.D

Acq: 7 Apr 2021 18:43

Tgt Ion: 164 Resp: 217751

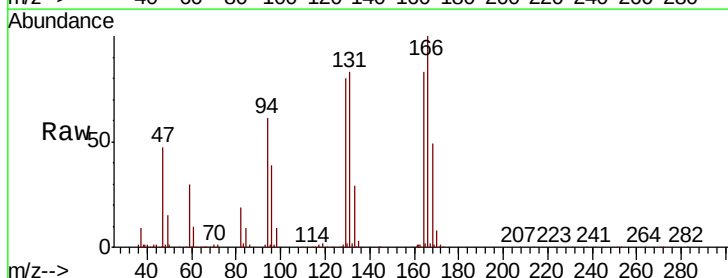
Ion Ratio Lower Upper

164 100

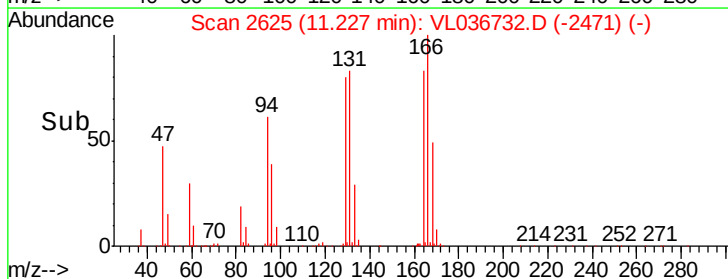
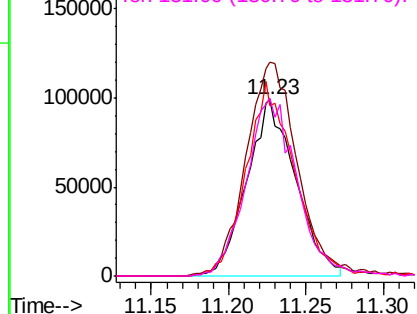
166 120.4 98.3 147.5

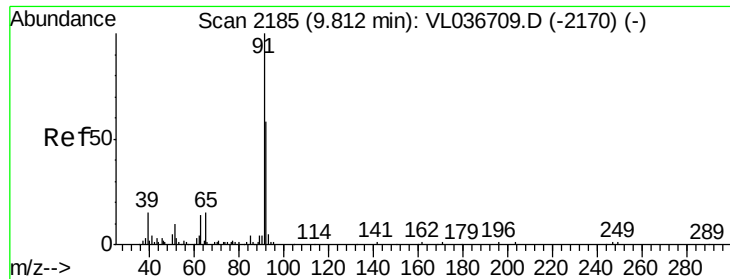
129 96.0 85.8 128.8

131 100.8 80.9 121.3



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: 0.672 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.00 min

Lab File: VL036732.D

Acq: 7 Apr 2021 18:43

Instrument :

MSVOA_L

ClientSampleId :

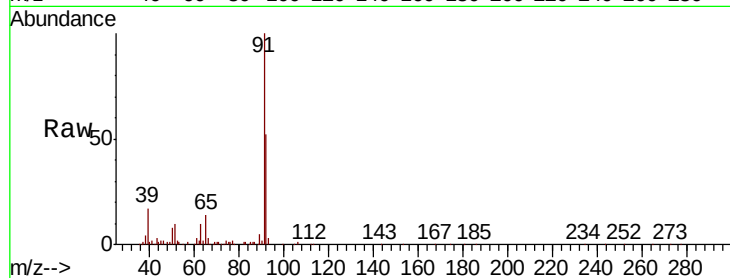
FS-SV-04DL

Tot Ion: 91 Resp: 209387

Ion Ratio Lower Upper

91 100

92 60.9 48.8 73.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.81

100000

80000

60000

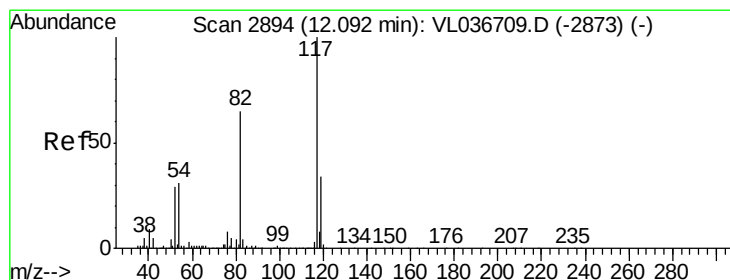
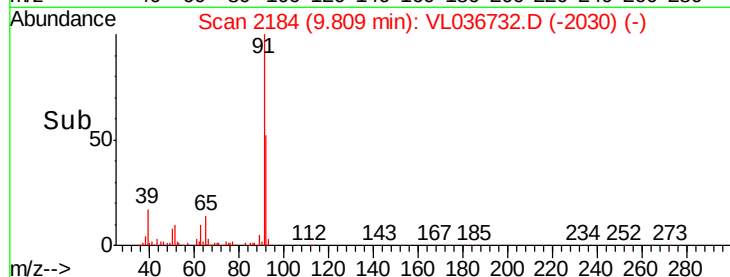
40000

20000

0

9.75 9.80 9.85 9.90

Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2894

Delta R.T. -0.00 min

Lab File: VL036732.D

Acq: 7 Apr 2021 18:43

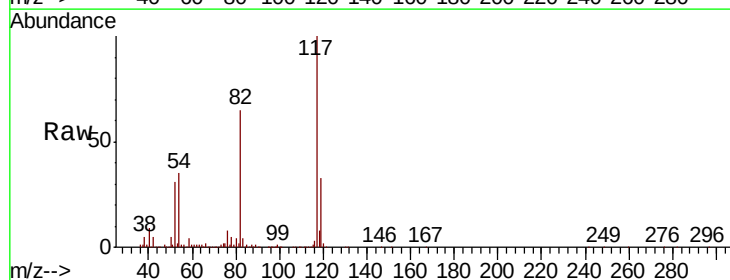
Tgt Ion: 117 Resp: 2713069

Ion Ratio Lower Upper

117 100

82 68.1 57.4 86.0

119 33.4 47.4 71.0#



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

1500000

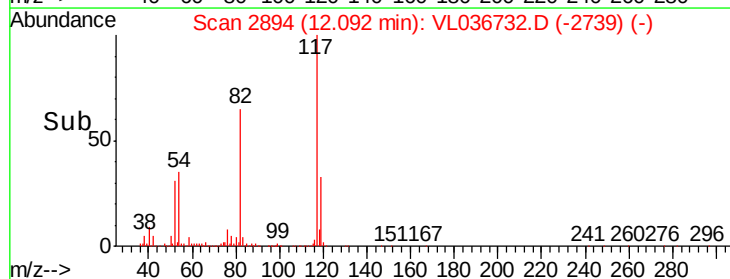
1000000

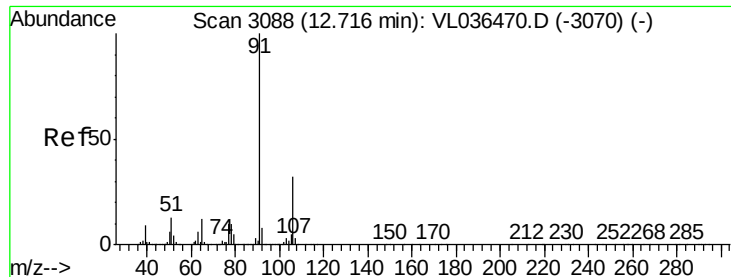
500000

0

12.00 12.10 12.20

Time-->





#58

Ethyl Benzene

Concen: 0.182 ppbv

RT: 13.00 min Scan# 3176

Delta R.T. 0.28 min

Lab File: VL036732.D

Acq: 7 Apr 2021 18:43

Instrument :

MSVOA_L

ClientSampleId :

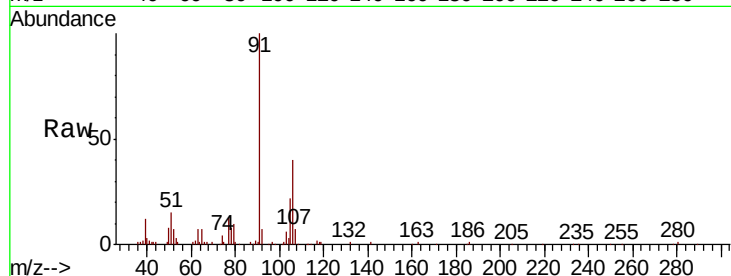
FS-SV-04DL

Tot Ion: 91 Resp: 71821

Ion Ratio Lower Upper

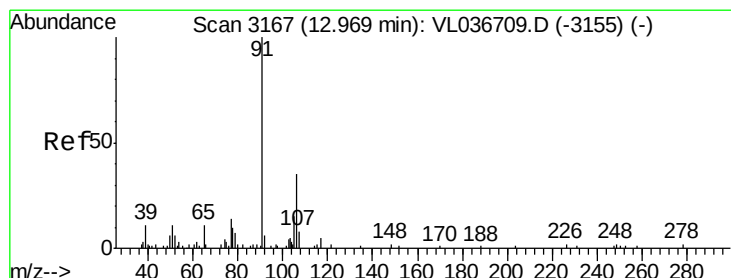
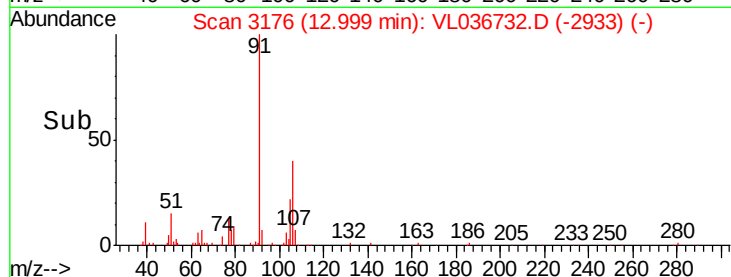
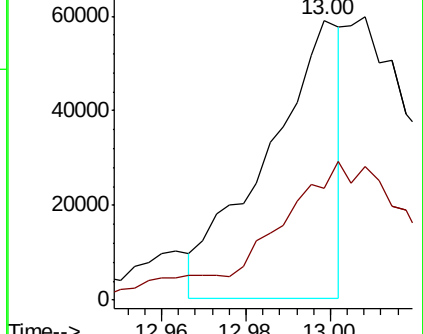
91 100

106 37.2 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.209 ppbv

RT: 13.00 min Scan# 3176

Delta R.T. -0.00 min

Lab File: VL036732.D

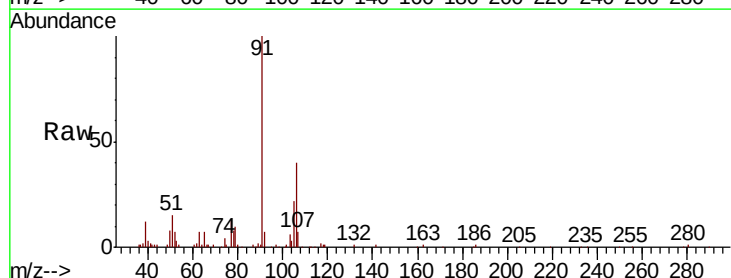
Acq: 7 Apr 2021 18:43

Tgt Ion: 91 Resp: 71821

Ion Ratio Lower Upper

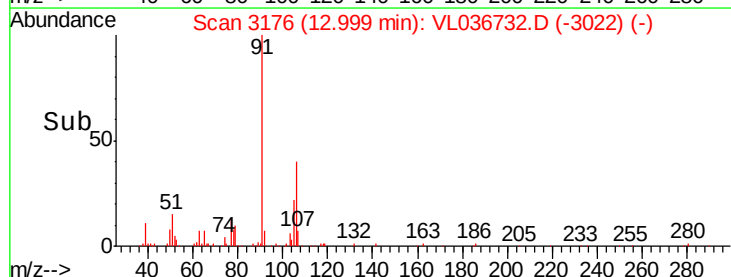
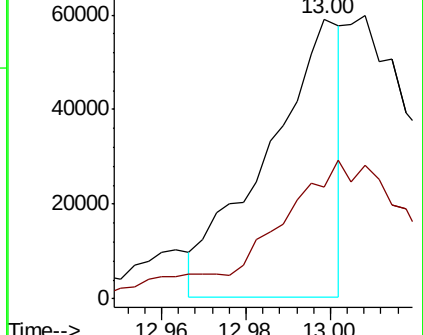
91 100

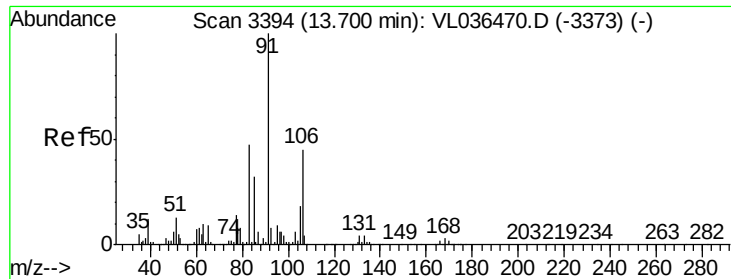
106 106.2 35.3 52.9#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

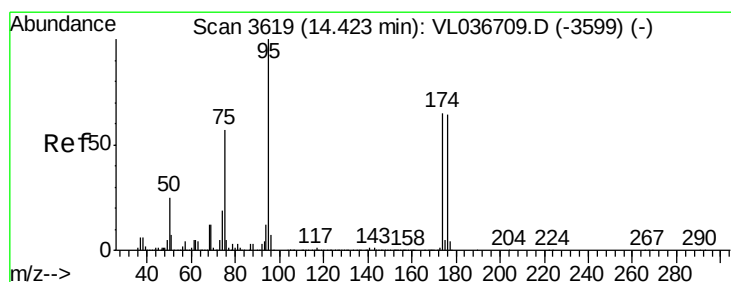
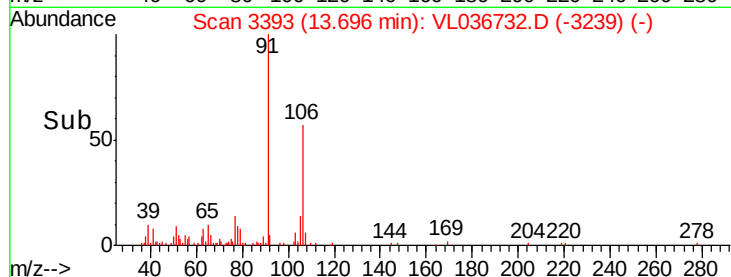
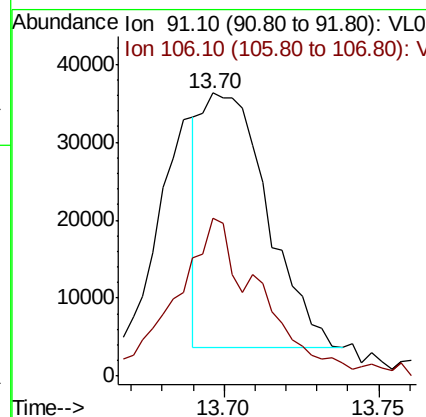
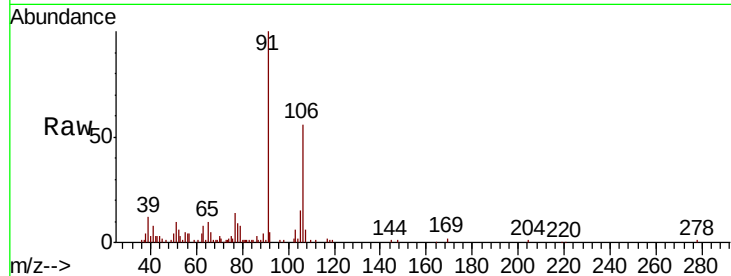




#60
o-Xylene
Concen: 0.145 ppbv
RT: 13.70 min Scan# 3393
Delta R.T. -0.00 min
Lab File: VL036732.D
Acq: 7 Apr 2021 18:43

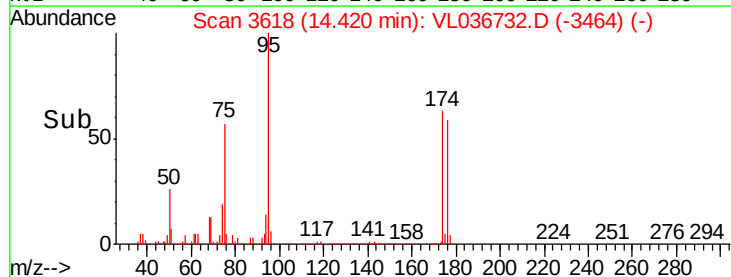
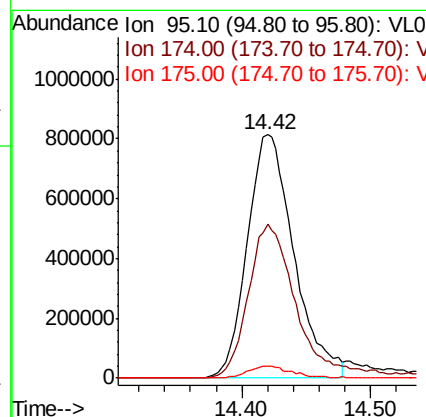
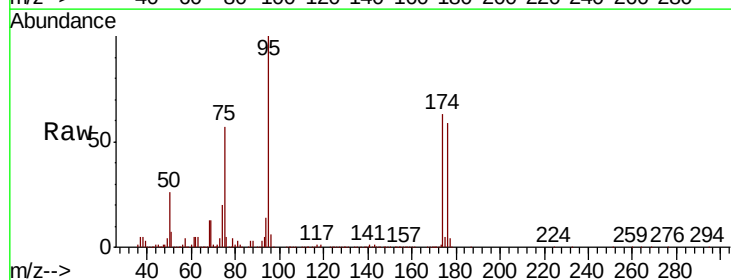
Instrument :
MSVOA_L
ClientSampleId :
FS-SV-04DL

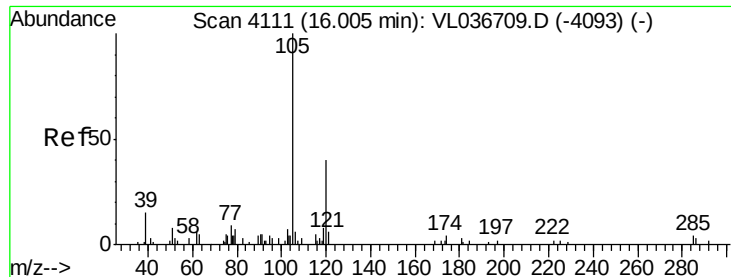
Tot Ion: 91 Resp: 48200
Ion Ratio Lower Upper
91 100
106 85.8 22.3 66.9#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.486 ppbv
RT: 14.42 min Scan# 3618
Delta R.T. -0.00 min
Lab File: VL036732.D
Acq: 7 Apr 2021 18:43

Tgt Ion: 95 Resp: 2051280
Ion Ratio Lower Upper
95 100
174 69.1 51.0 76.6
175 5.0 3.9 5.9





#73

1,3,5-Trimethylbenzene

Concen: 0.036 ppbv

RT: 16.00 min Scan# 4111

Delta R.T. -0.00 min

Lab File: VL036732.D

Acq: 7 Apr 2021 18:43

Instrument :

MSVOA_L

ClientSampleId :

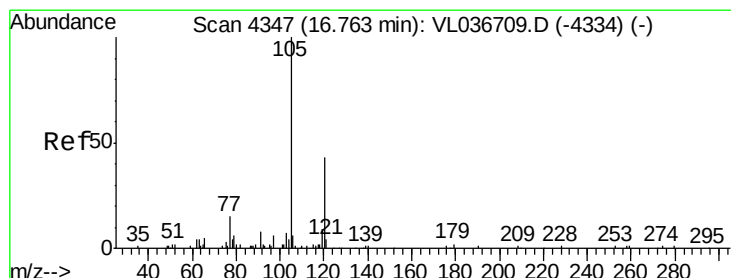
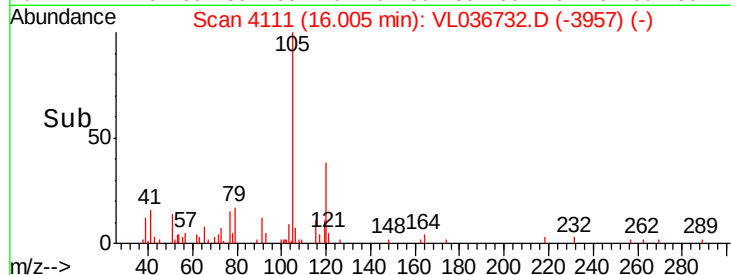
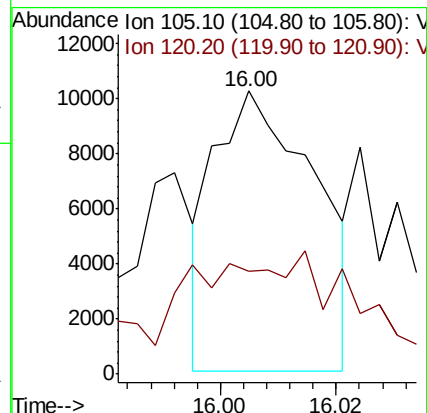
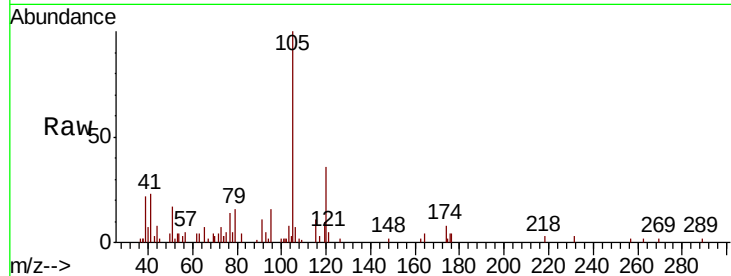
FS-SV-04DL

Tot Ion:105 Resp: 12267

Ion Ratio Lower Upper

105 100

120 0.0 36.6 54.8#



#74

1,2,4-Trimethylbenzene

Concen: 0.034 ppbv

RT: 16.77 min Scan# 4350

Delta R.T. 0.00 min

Lab File: VL036732.D

Acq: 7 Apr 2021 18:43

Tgt Ion:105 Resp: 12320

Ion Ratio Lower Upper

105 100

120 0.0 39.2 58.8#

91 16.8 42.6 64.0#

77 20.9 18.6 28.0

