

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090820\
 Data File : VL035572.D
 Acq On : 9 Sep 2020 1:47
 Operator : SY/AP
 Sample : L3898-09 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-8DL

Quant Time: Sep 09 02:40:08 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	5.65	49	1219608	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.17	114	4939241	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.09	117	4996268	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	3747105	10.56	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.60%

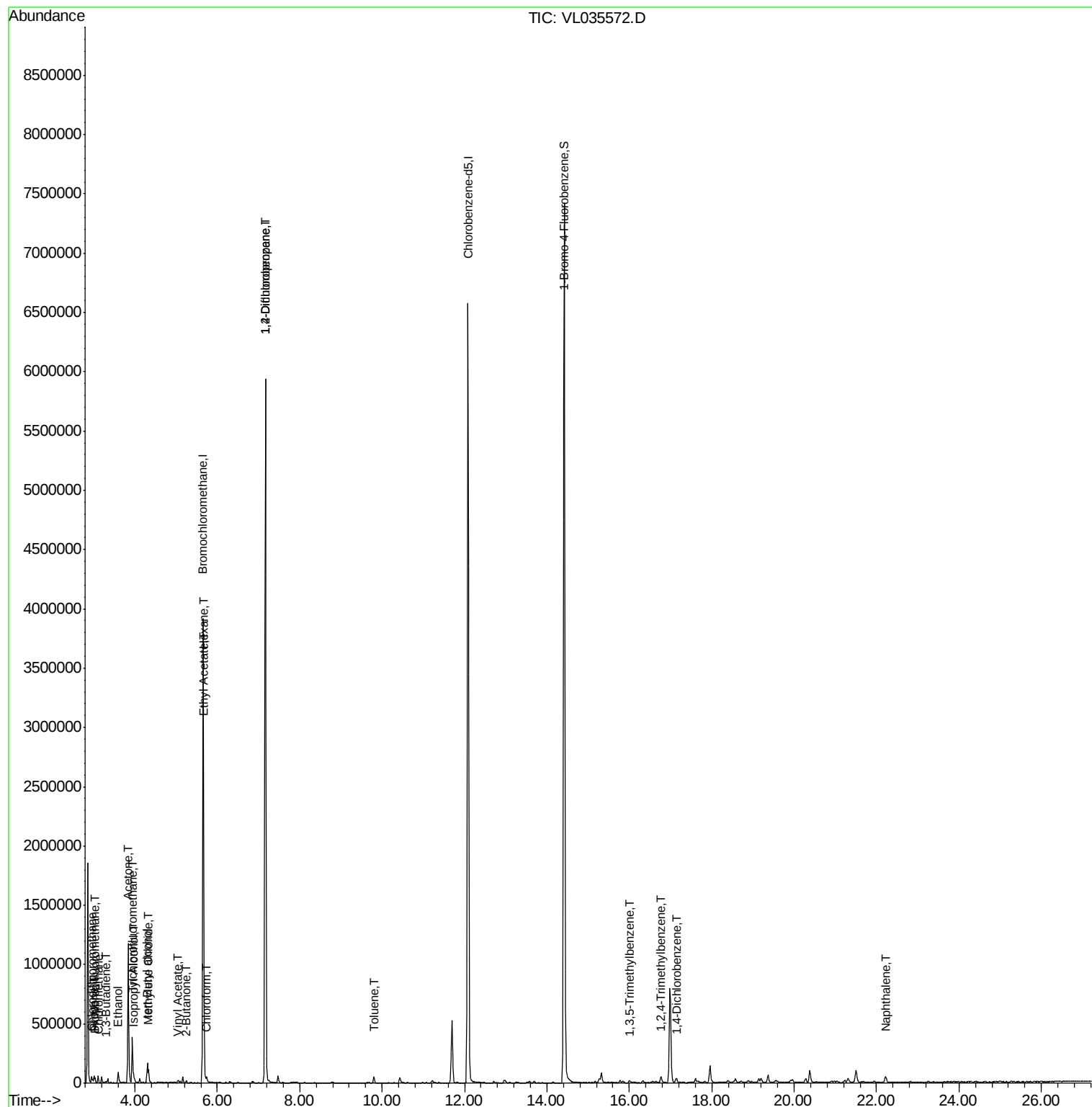
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	26435	0.125 ppbv	98
3) Chlorodifluoromethane	2.95	51	52965	0.393 ppbv #	72
4) Chloromethane	3.13	50	4127	0.057 ppbv	99
9) Propene	3.01	41	13168	0.253 ppbv #	78
11) Trichlorofluoromethane	3.94	101	246812	0.801 ppbv	94
13) Ethanol	3.59	45	97898	7.593 ppbv	98
15) Acetone	3.83	43	1080691	8.034 ppbv	99
16) 1,3-Butadiene	3.29	39	2215	0.044 ppbv #	3
17) tert-Butyl alcohol	4.30	59	37690	0.230 ppbv #	92
19) Isopropyl Alcohol	3.96	45	63777	0.795 ppbv #	93
20) Methylene Chloride	4.33	84	44136	0.441 ppbv	95
23) Vinyl Acetate	5.06	43	9423	0.055 ppbv #	59
25) Ethyl Acetate	5.67	43	17388	0.073 ppbv #	87
26) Hexane	5.67	57	16907	0.126 ppbv #	70
29) Chloroform	5.74	83	24798	0.090 ppbv	92
34) 2-Butanone	5.24	43	8863	0.060 ppbv #	40
39) 1,2-Dichloropropane	7.17	63	937426	8.679 ppbv #	32
53) Toluene	9.80	91	47785	0.119 ppbv	95
73) 1,3,5-Trimethylbenzene	16.00	105	15344	0.030 ppbv	95
74) 1,2,4-Trimethylbenzene	16.77	105	40389	0.072 ppbv #	65
76) 1,4-Dichlorobenzene	17.15	146	14553	0.036 ppbv	97
79) Naphthalene	22.22	128	76594	0.123 ppbv #	91

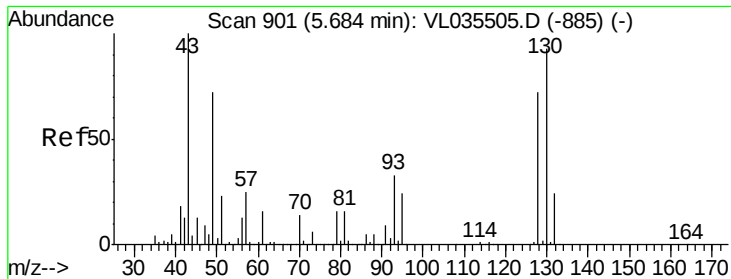
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.03 min

Lab File: VL035572.D

Acq: 9 Sep 2020 1:47

Instrument :

MSVOA_L

ClientSampleId :

SS-8DL

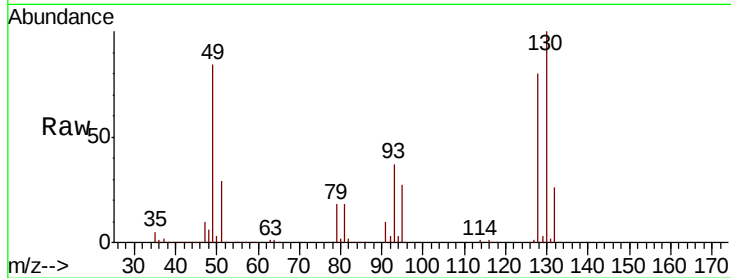
Tot Ion: 49 Resp: 1219608

Ion Ratio Lower Upper

49 100

128 93.6 50.0 150.1

130 119.7 64.4 193.2



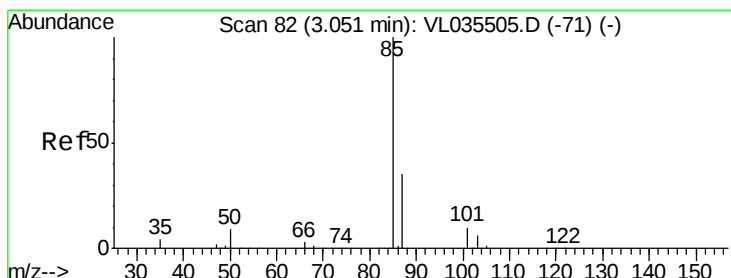
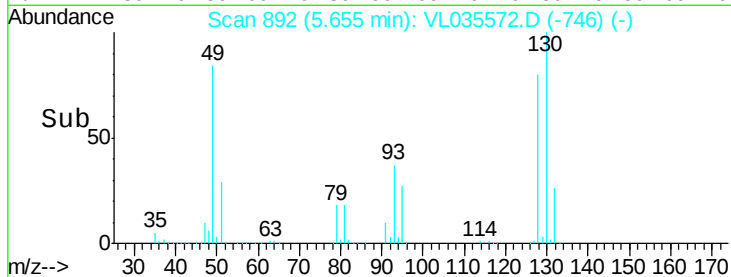
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.65

Time-->



#2

Dichlorodifluoromethane

Concen: 0.125 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.02 min

Lab File: VL035572.D

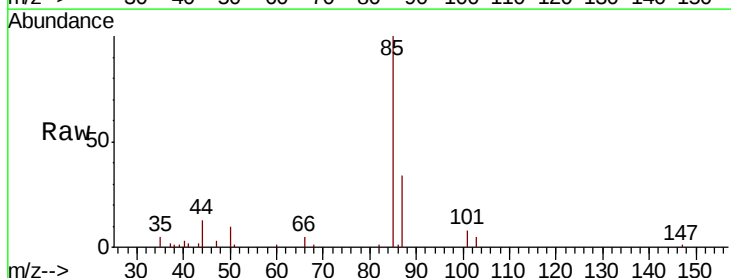
Acq: 9 Sep 2020 1:47

Tgt Ion: 85 Resp: 26435

Ion Ratio Lower Upper

85 100

87 34.0 28.0 42.0

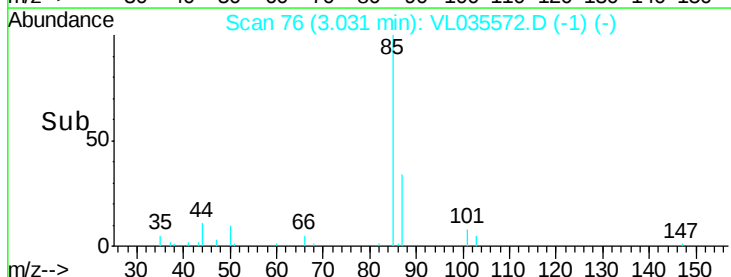


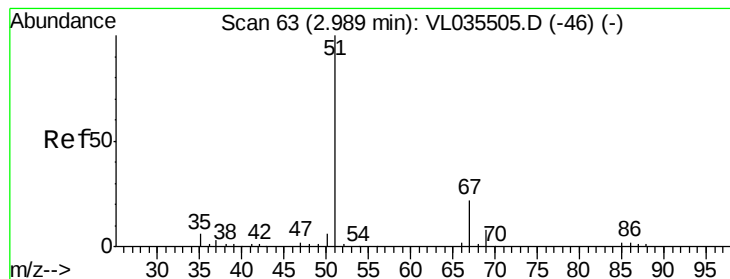
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.03

Time-->





#3

Chlorodifluoromethane

Concen: 0.393 ppbv

RT: 2.95 min Scan# 50

Delta R.T. -0.04 min

Lab File: VL035572.D

Acq: 9 Sep 2020 1:47

Instrument :

MSVOA_L

ClientSampleId :

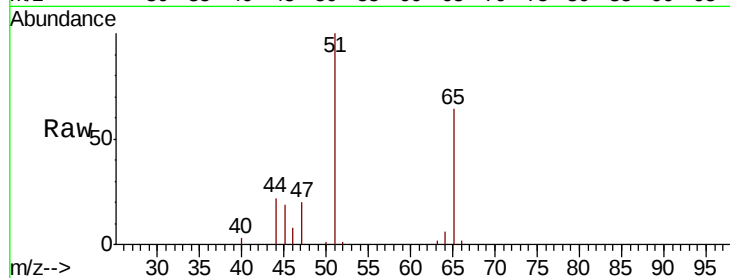
SS-8DL

Tot Ion: 51 Resp: 52965

Ion Ratio Lower Upper

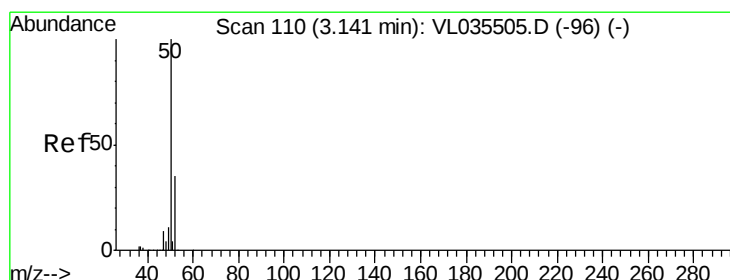
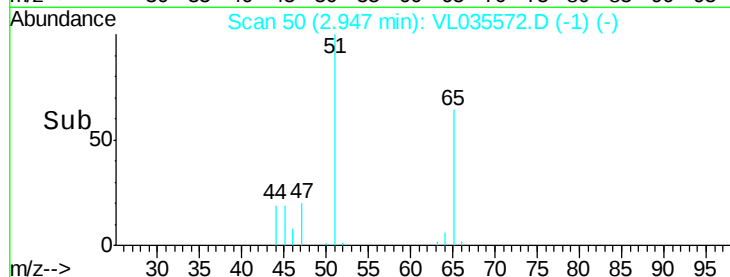
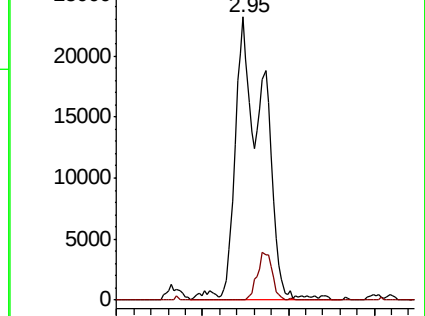
51 100

67 9.0 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: 0.057 ppbv

RT: 3.13 min Scan# 106

Delta R.T. -0.01 min

Lab File: VL035572.D

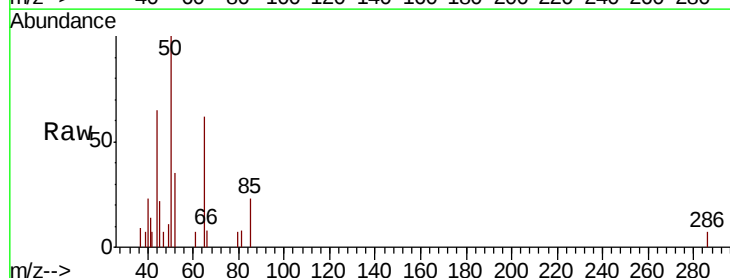
Acq: 9 Sep 2020 1:47

Tgt Ion: 50 Resp: 4127

Ion Ratio Lower Upper

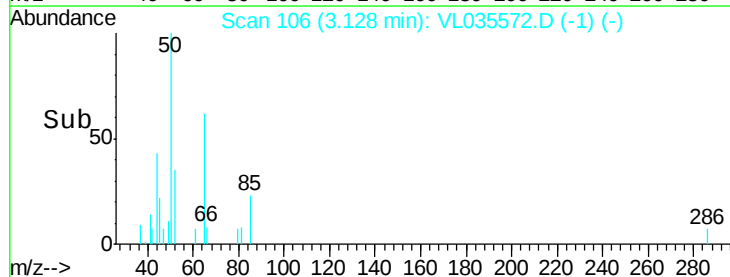
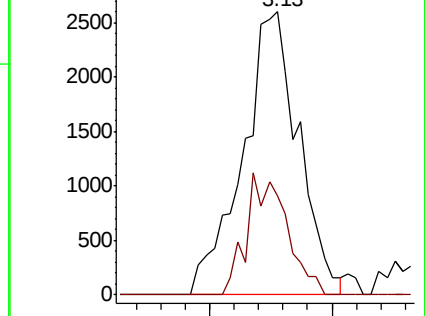
50 100

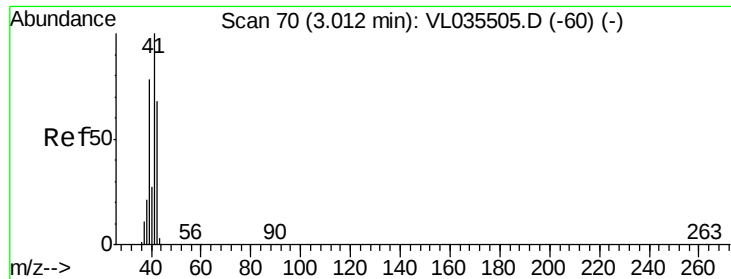
52 35.0 27.7 41.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.253 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.01 min

Lab File: VL035572.D

Acq: 9 Sep 2020 1:47

Instrument :

MSVOA_L

ClientSampleId :

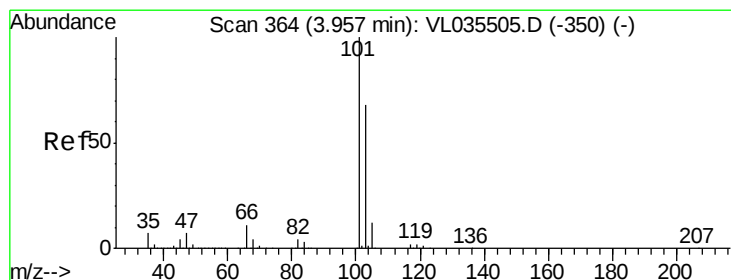
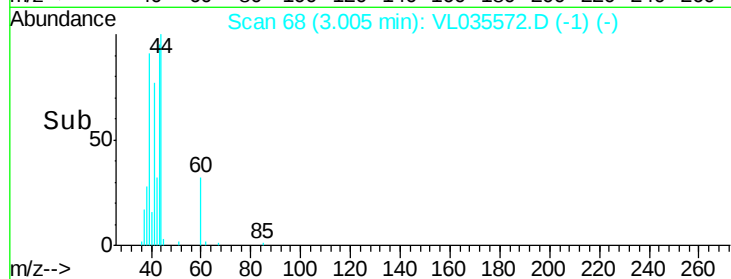
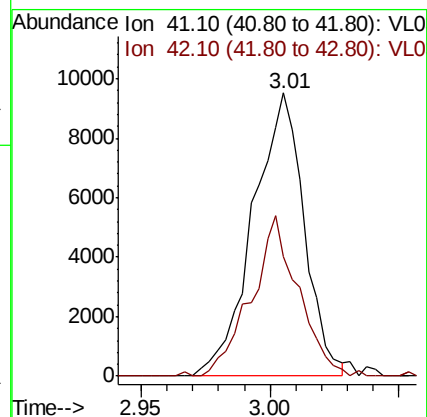
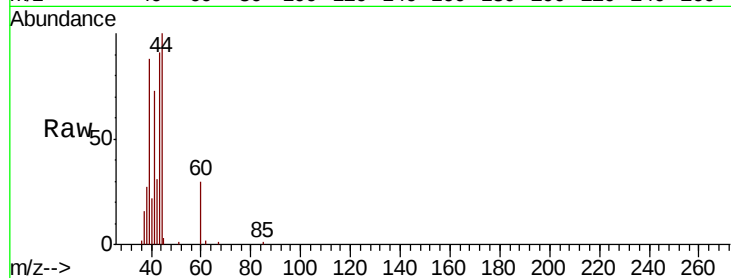
SS-8DL

Tot Ion: 41 Resp: 13168

Ion Ratio Lower Upper

41 100

42 52.5 56.3 84.5#



#11

Trichlorofluoromethane

Concen: 0.801 ppbv

RT: 3.94 min Scan# 358

Delta R.T. -0.02 min

Lab File: VL035572.D

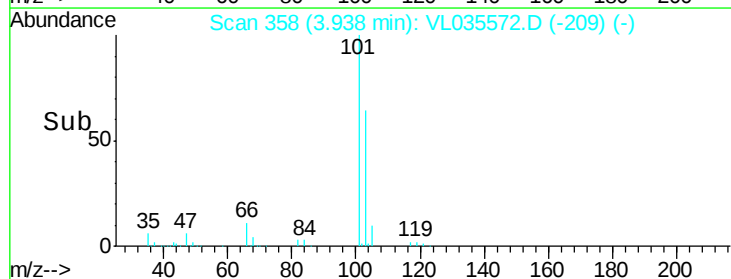
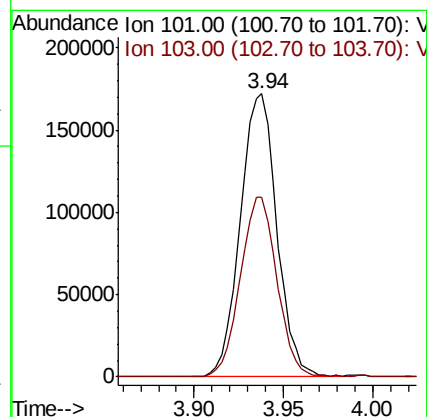
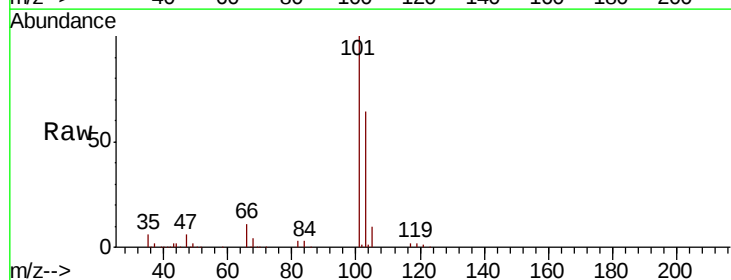
Acq: 9 Sep 2020 1:47

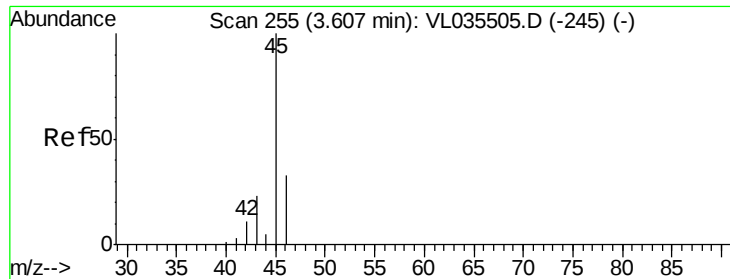
Tgt Ion: 101 Resp: 246812

Ion Ratio Lower Upper

101 100

103 63.5 54.5 81.7





#13

Ethanol

Concen: 7.593 ppbv

RT: 3.59 min Scan# 250

Delta R.T. -0.02 min

Lab File: VL035572.D

Acq: 9 Sep 2020 1:47

Instrument :

MSVOA_L

ClientSampleId :

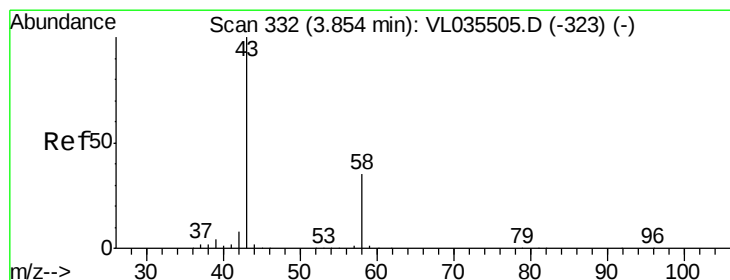
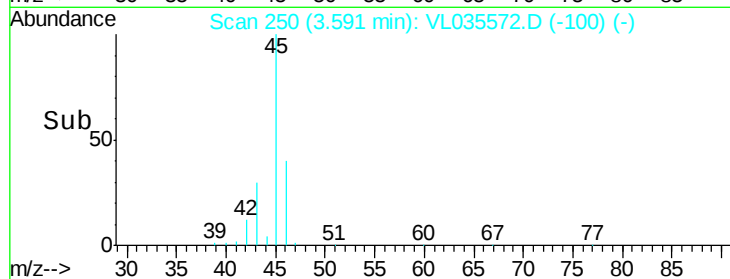
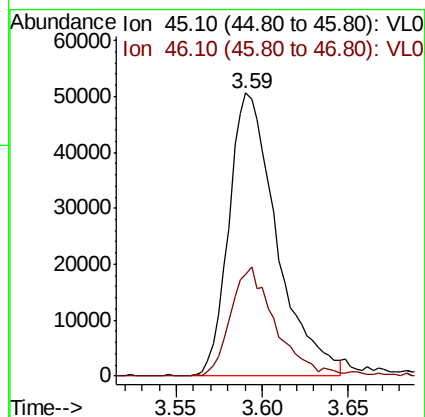
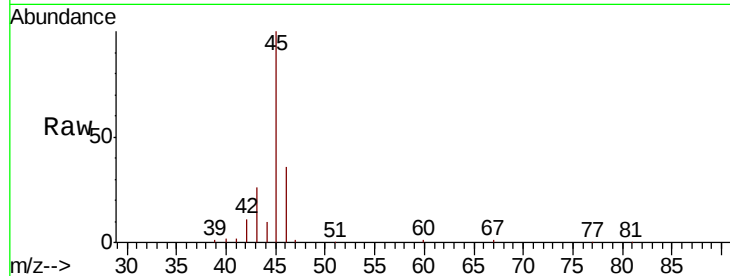
SS-8DL

Tot Ion: 45 Resp: 97898

Ion Ratio Lower Upper

45 100

46 36.7 15.2 60.6



#15

Acetone

Concen: 8.034 ppbv

RT: 3.83 min Scan# 326

Delta R.T. -0.02 min

Lab File: VL035572.D

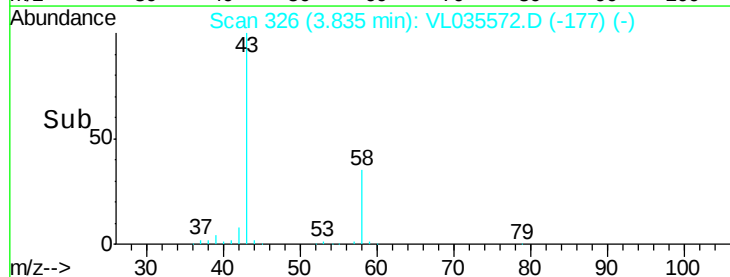
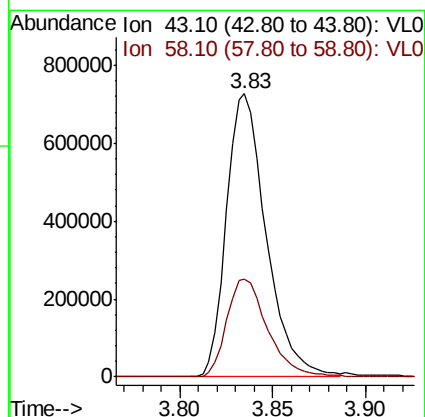
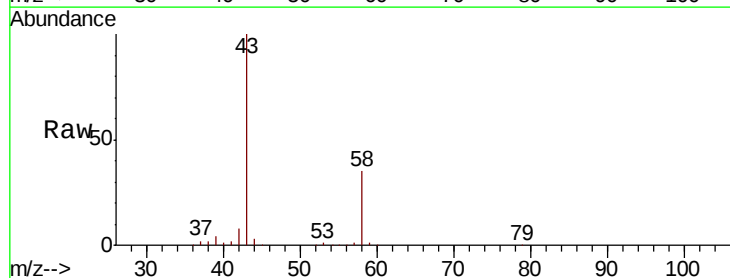
Acq: 9 Sep 2020 1:47

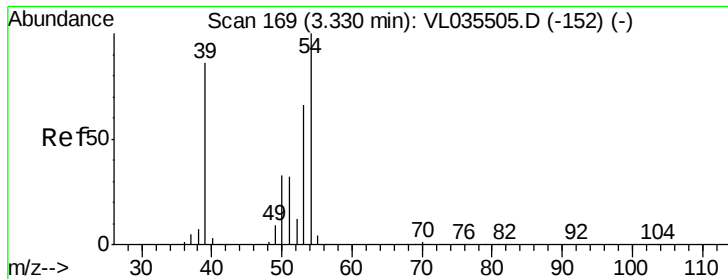
Tgt Ion: 43 Resp: 1080691

Ion Ratio Lower Upper

43 100

58 35.9 28.4 42.6





#16

1,3-Butadiene

Concen: 0.044 ppbv

RT: 3.29 min Scan# 157

Delta R.T. -0.04 min

Lab File: VL035572.D

Acq: 9 Sep 2020 1:47

Instrument :

MSVOA_L

ClientSampleId :

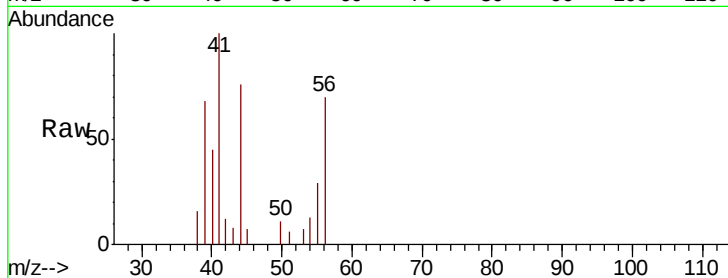
SS-8DL

Tot Ion: 39 Resp: 2215

Ion Ratio Lower Upper

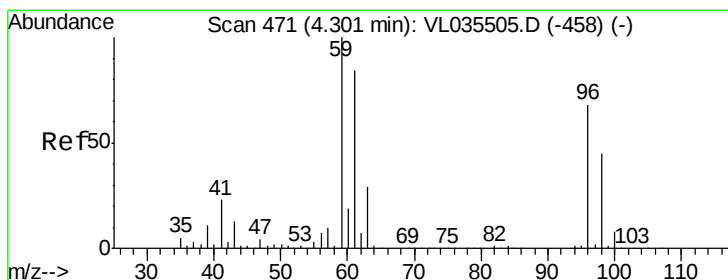
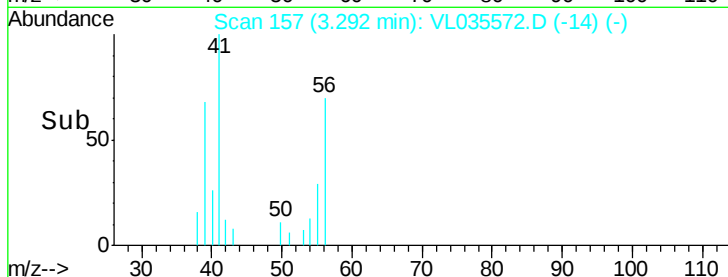
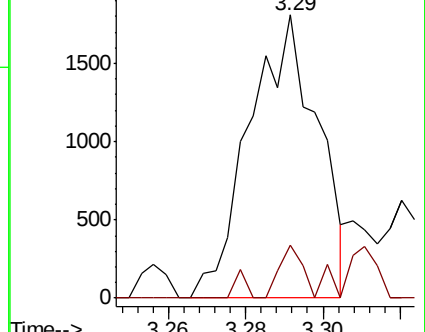
39 100

54 7.9 88.4 132.6#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0



#17

tert-Butyl alcohol

Concen: 0.230 ppbv

RT: 4.30 min Scan# 471

Delta R.T. -0.00 min

Lab File: VL035572.D

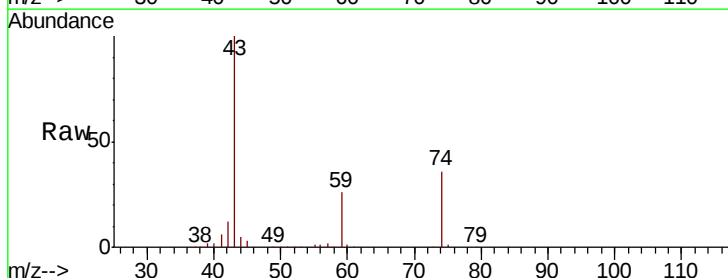
Acq: 9 Sep 2020 1:47

Tgt Ion: 59 Resp: 37690

Ion Ratio Lower Upper

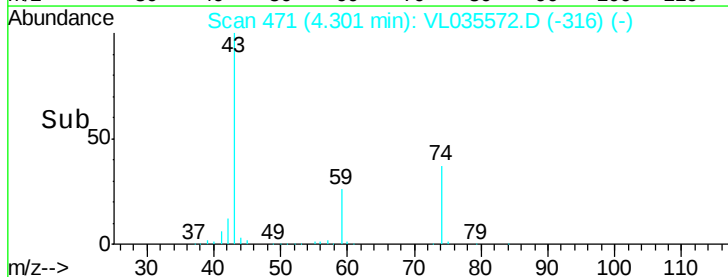
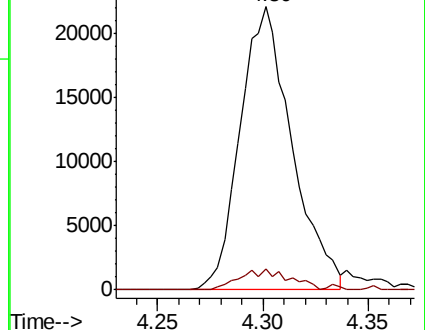
59 100

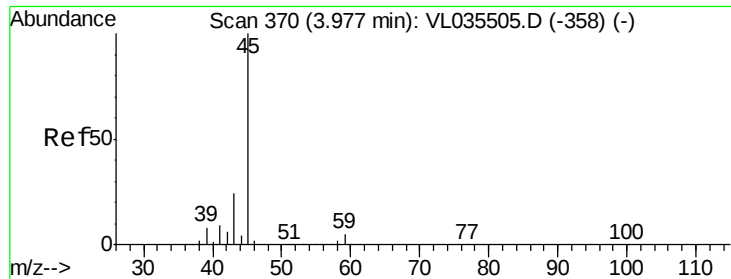
57 7.6 8.4 12.6#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#19

Isopropyl Alcohol

Concen: 0.795 ppbv

RT: 3.96 min Scan# 366

Delta R.T. -0.01 min

Lab File: VL035572.D

Acq: 9 Sep 2020 1:47

Instrument :

MSVOA_L

ClientSampleId :

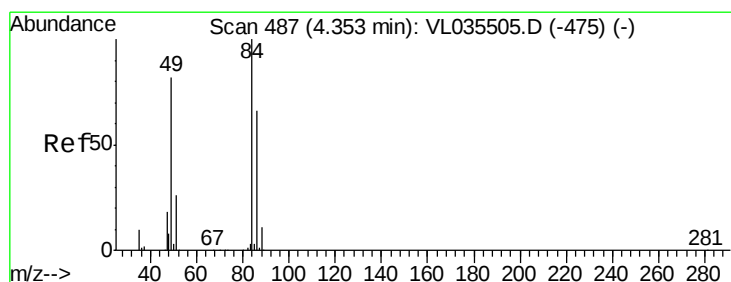
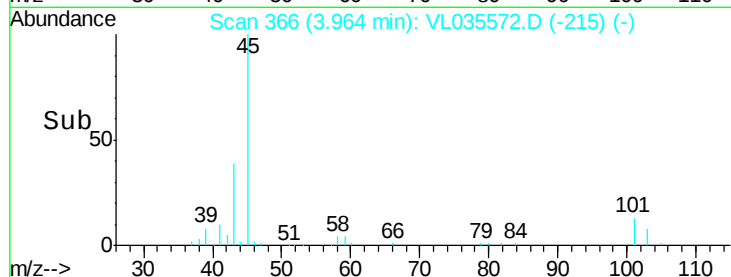
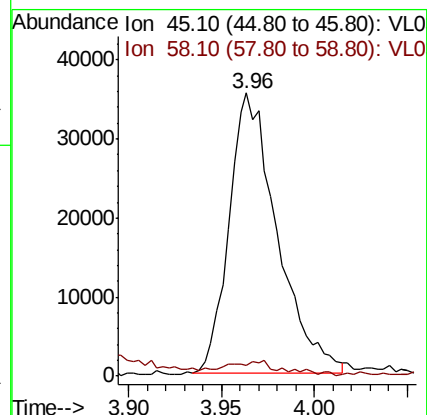
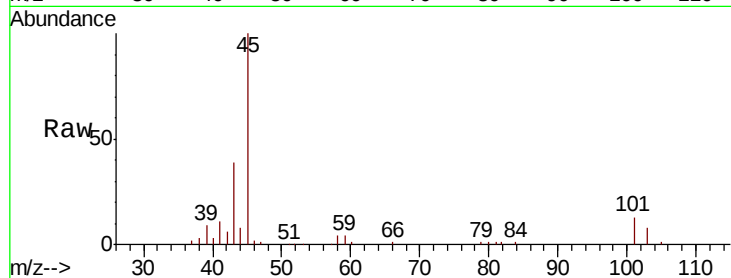
SS-8DL

Tot Ion: 45 Resp: 63777

Ion Ratio Lower Upper

45 100

58 0.0 2.0 3.0#



#20

Methylene Chloride

Concen: 0.441 ppbv

RT: 4.33 min Scan# 479

Delta R.T. -0.03 min

Lab File: VL035572.D

Acq: 9 Sep 2020 1:47

Tgt Ion: 84 Resp: 44136

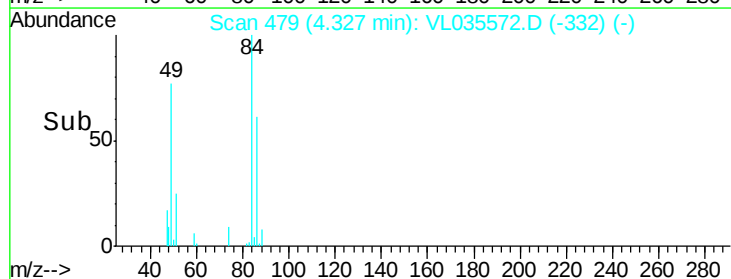
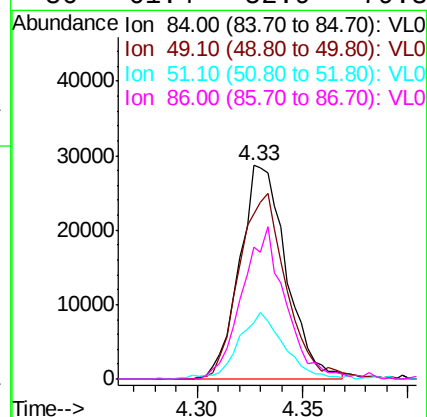
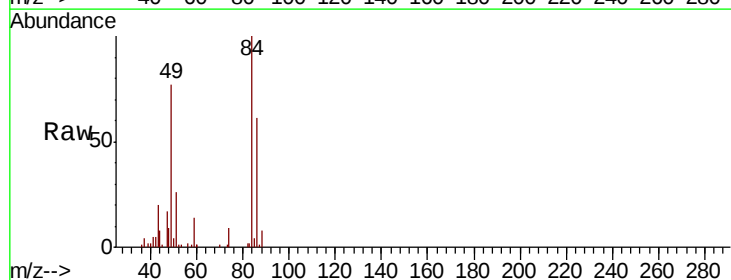
Ion Ratio Lower Upper

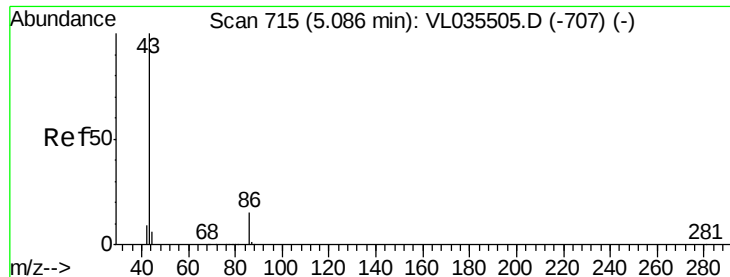
84 100

49 77.1 65.4 98.0

51 25.6 21.5 32.3

86 61.4 52.9 79.3





#23

Vinyl Acetate

Concen: 0.055 ppbv

RT: 5.06 min Scan# 706

Delta R.T. -0.03 min

Lab File: VL035572.D

Acq: 9 Sep 2020 1:47

Instrument :

MSVOA_L

ClientSampled :

SS-8DL

Tot Ion: 43 Resp: 9423

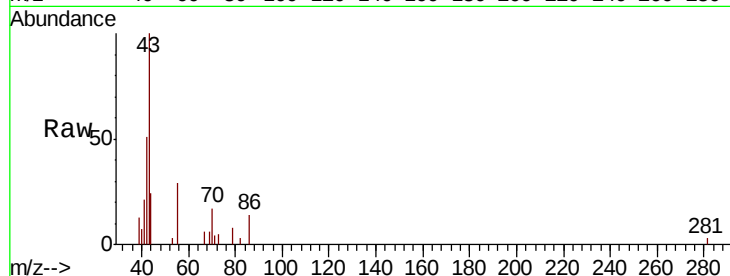
Ion Ratio Lower Upper

43 100

86 14.8 10.6 16.0

42 48.6 7.5 11.3#

44 0.0 4.4 6.6#

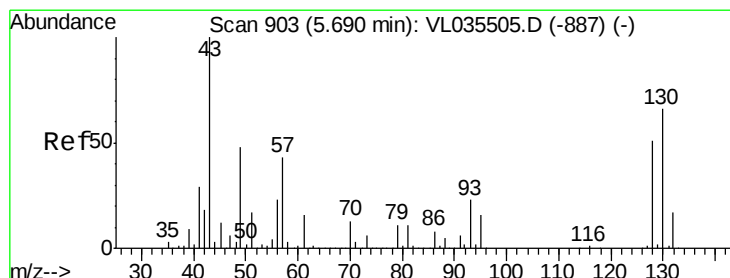
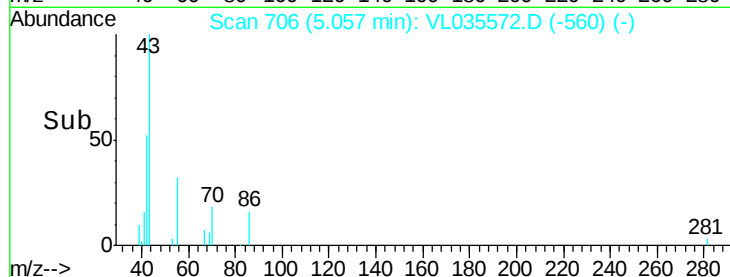
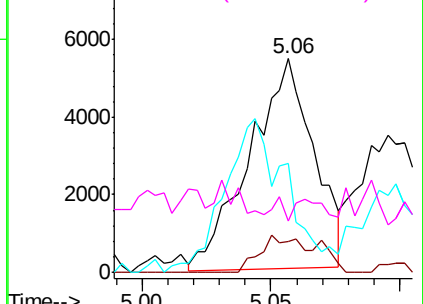


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 0.073 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.02 min

Lab File: VL035572.D

Acq: 9 Sep 2020 1:47

Tgt Ion: 43 Resp: 17388

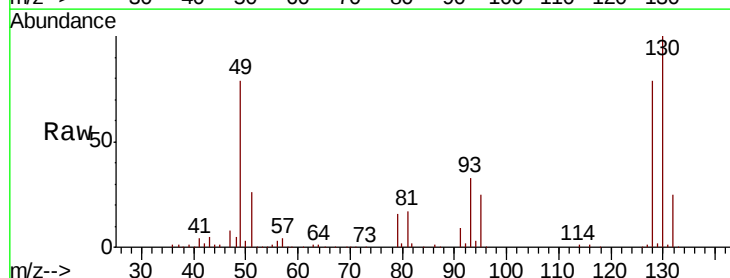
Ion Ratio Lower Upper

43 100

45 15.7 8.4 12.6#

61 7.6 10.6 16.0#

70 7.8 9.4 14.2#

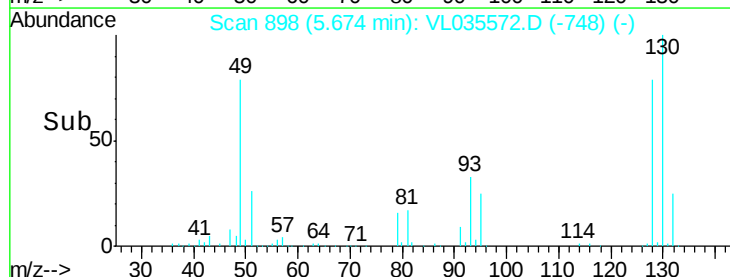
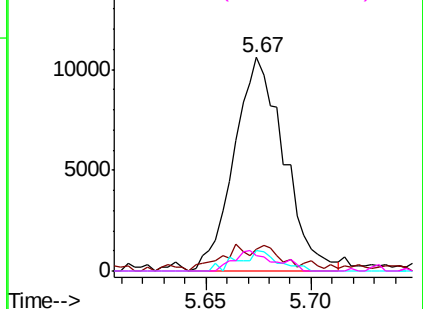


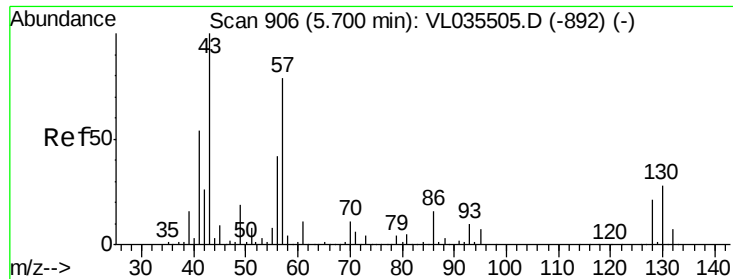
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

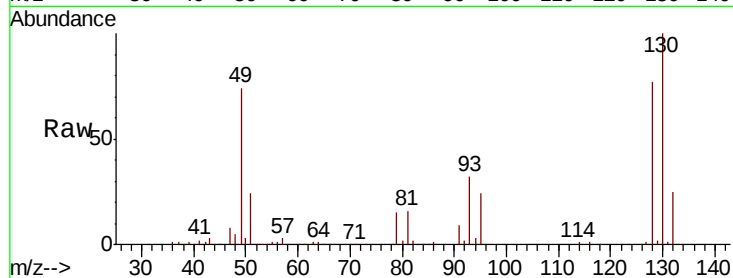




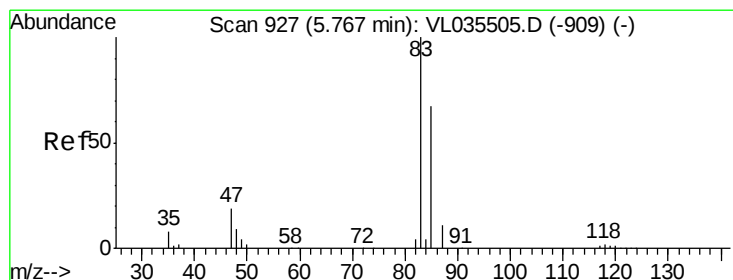
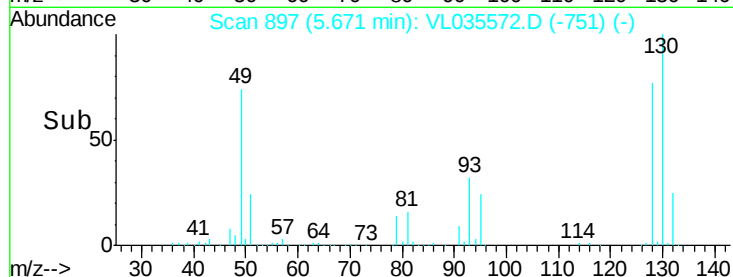
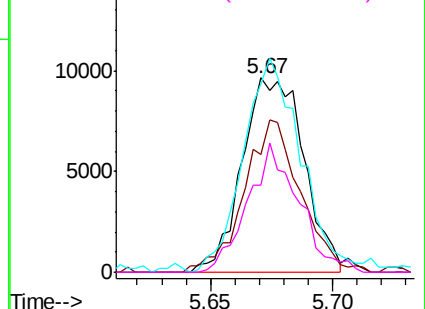
#26
Hexane
Concen: 0.126 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.03 min
Lab File: VL035572.D
Acq: 9 Sep 2020 1:47

Instrument :
MSVOA_L
ClientSampleId :
SS-8DL

Tot Ion: 57 Resp: 16907
Ion Ratio Lower Upper
57 100
41 73.4 55.9 83.9
43 109.2 141.8 212.8#
56 55.0 41.8 62.8

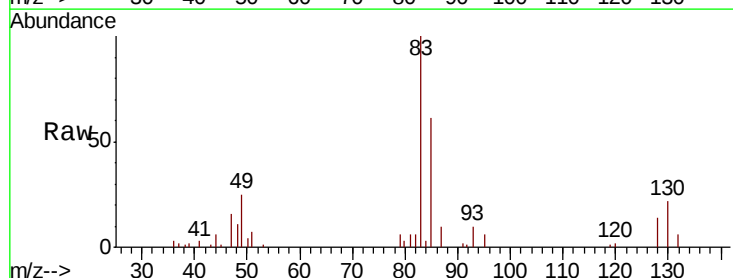


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

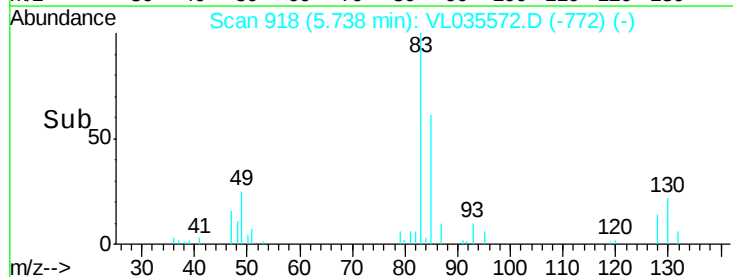
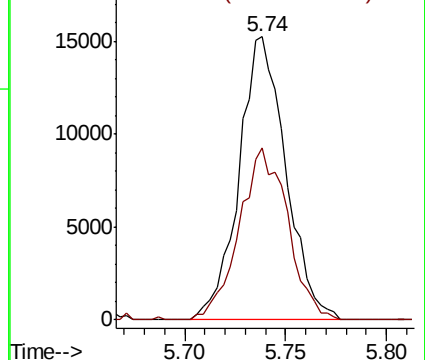


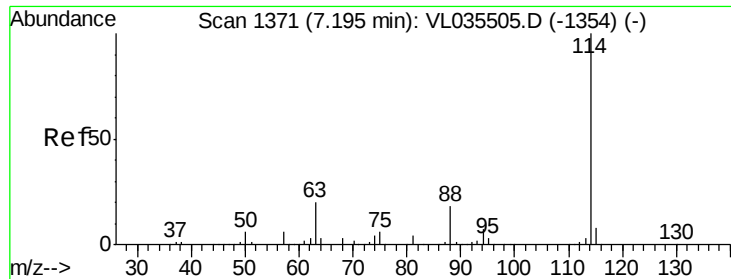
#29
Chloroform
Concen: 0.090 ppbv
RT: 5.74 min Scan# 918
Delta R.T. -0.03 min
Lab File: VL035572.D
Acq: 9 Sep 2020 1:47

Tgt Ion: 83 Resp: 24798
Ion Ratio Lower Upper
83 100
85 60.7 53.9 80.9



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0

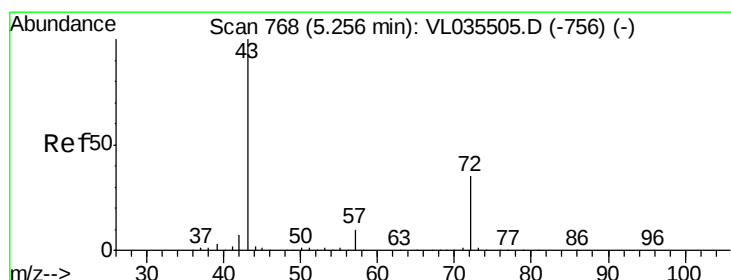
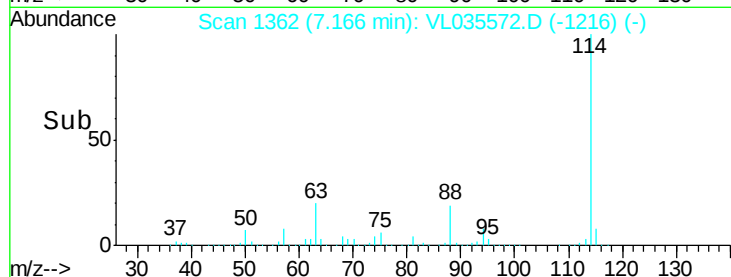
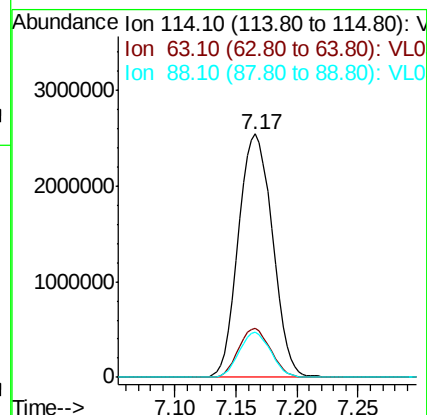
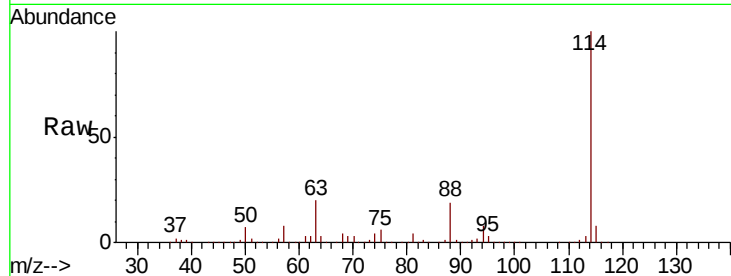




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. -0.03 min
 Lab File: VL035572.D
 Acq: 9 Sep 2020 1:47

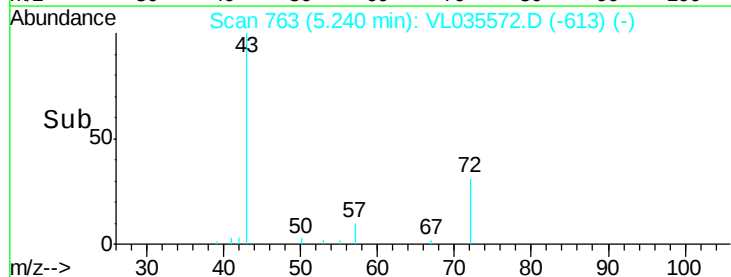
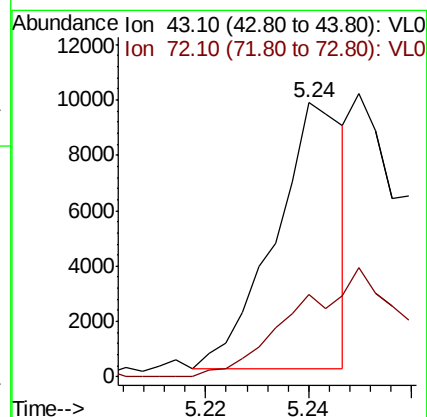
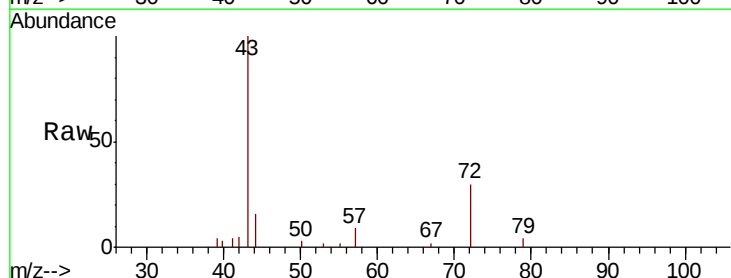
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-8DL

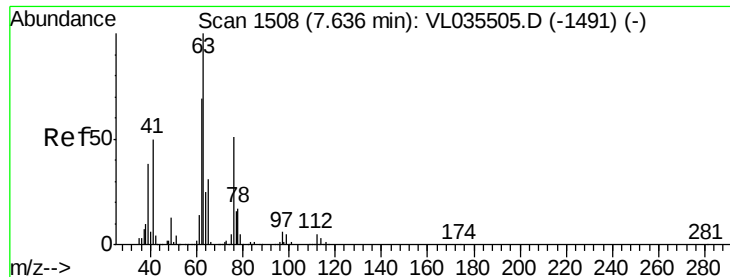
Tot Ion:114 Resp: 4939241
 Ion Ratio Lower Upper
 114 100
 63 19.0 14.7 22.1
 88 17.3 13.4 20.2



#34
 2-Butanone
 Concen: 0.060 ppbv
 RT: 5.24 min Scan# 763
 Delta R.T. -0.02 min
 Lab File: VL035572.D
 Acq: 9 Sep 2020 1:47

Tgt Ion: 43 Resp: 8863
 Ion Ratio Lower Upper
 43 100
 72 0.0 27.7 41.5#

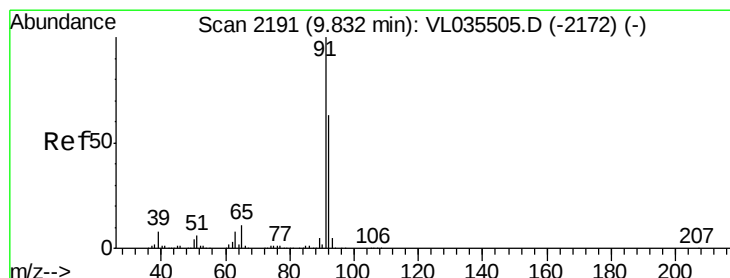
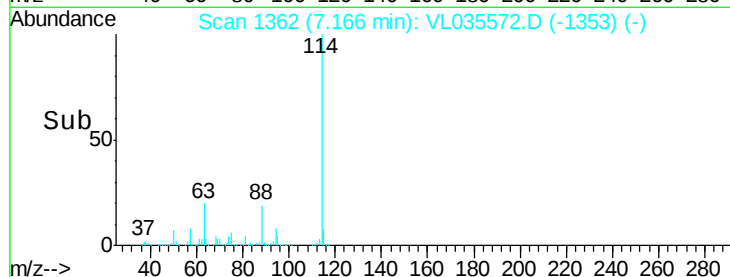
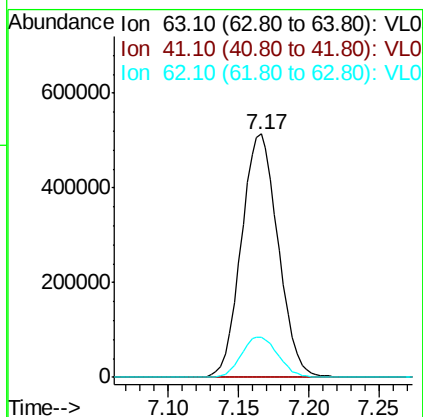
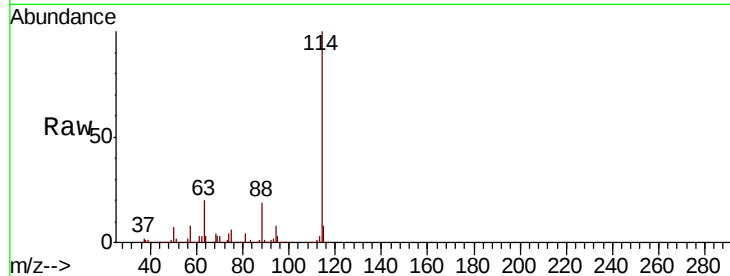




#39
 1,2-Dichloropropane
 Concen: 8.679 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. -0.47 min
 Lab File: VL035572.D
 Acq: 9 Sep 2020 1:47

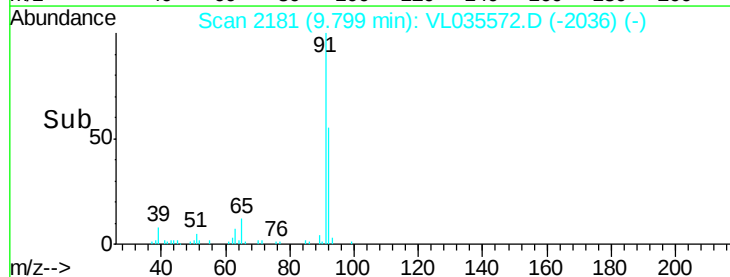
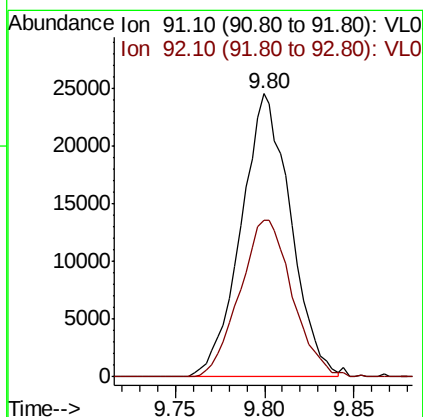
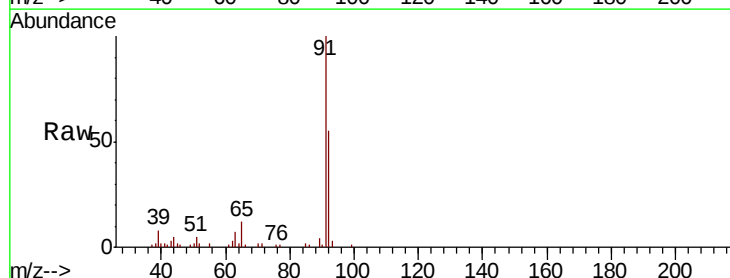
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-8DL

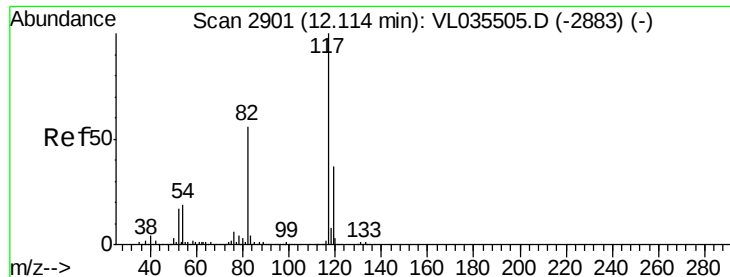
Tot Ion: 63 Resp: 937426
 Ion Ratio Lower Upper
 63 100
 41 0.0 40.0 60.0#
 62 16.7 55.4 83.0#



#53
 Toluene
 Concen: 0.119 ppbv
 RT: 9.80 min Scan# 2181
 Delta R.T. -0.03 min
 Lab File: VL035572.D
 Acq: 9 Sep 2020 1:47

Tgt Ion: 91 Resp: 47785
 Ion Ratio Lower Upper
 91 100
 92 58.6 49.8 74.8

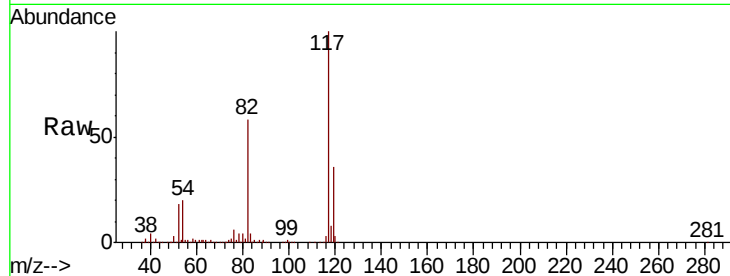




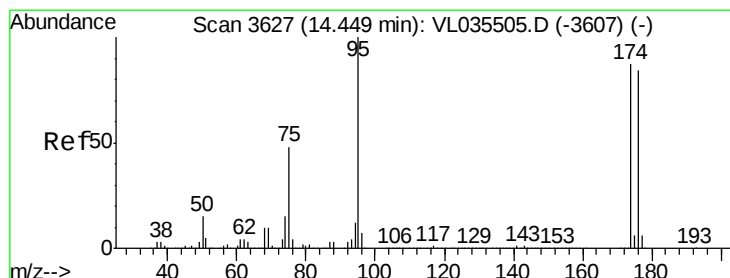
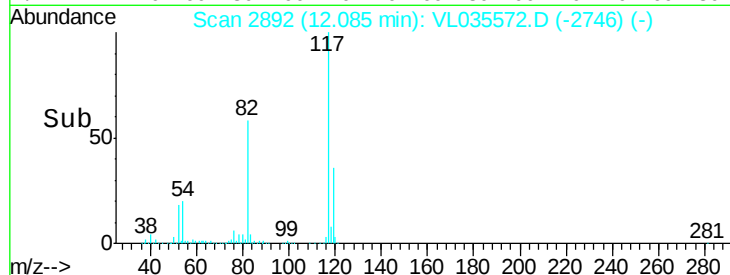
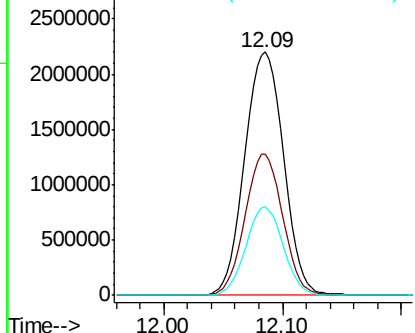
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2892
Delta R.T. -0.03 min
Lab File: VL035572.D
Acq: 9 Sep 2020 1:47

Instrument :
MSVOA_L
ClientSampled :
SS-8DL

Tot Ion:117 Resp: 4996268
Ion Ratio Lower Upper
117 100
82 56.4 41.6 62.4
119 35.1 29.3 43.9

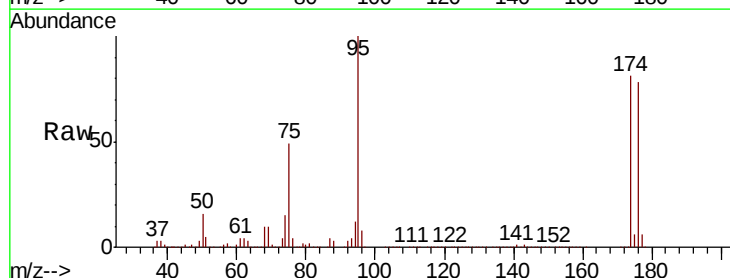


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

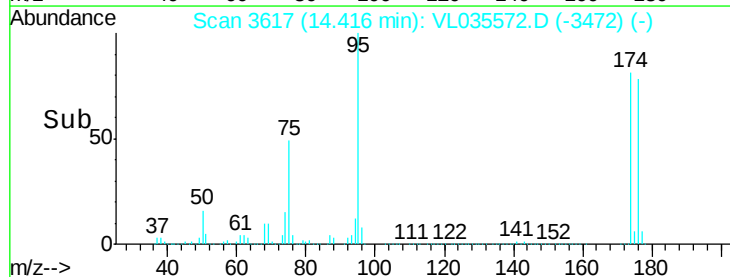
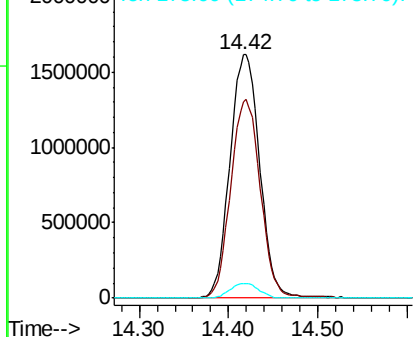


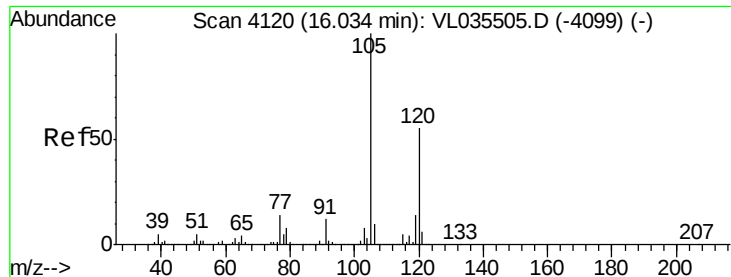
#68
1-Bromo-4-Fluorobenzene
Concen: 10.561 ppbv
RT: 14.42 min Scan# 3617
Delta R.T. -0.03 min
Lab File: VL035572.D
Acq: 9 Sep 2020 1:47

Tgt Ion: 95 Resp: 3747105
Ion Ratio Lower Upper
95 100
174 81.8 69.6 104.4
175 5.9 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





#73

1,3,5-Trimethylbenzene

Concen: 0.030 ppbv

RT: 16.00 min Scan# 4110

Delta R.T. -0.03 min

Lab File: VL035572.D

Acq: 9 Sep 2020 1:47

Instrument :

MSVOA_L

ClientSampled :

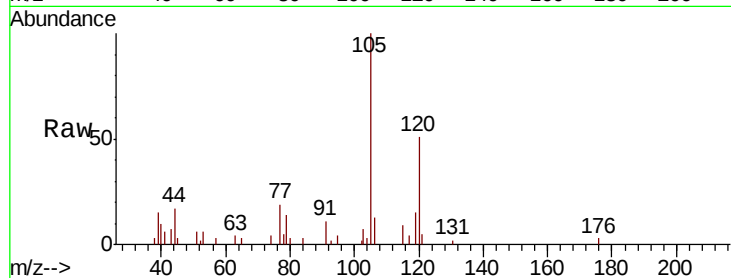
SS-8DL

Tot Ion:105 Resp: 15344

Ion Ratio Lower Upper

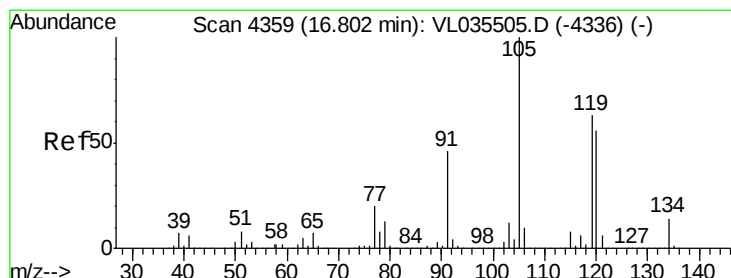
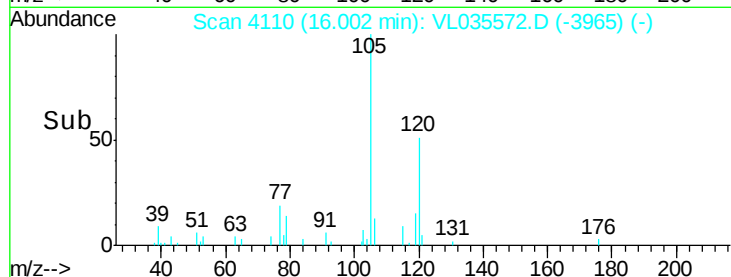
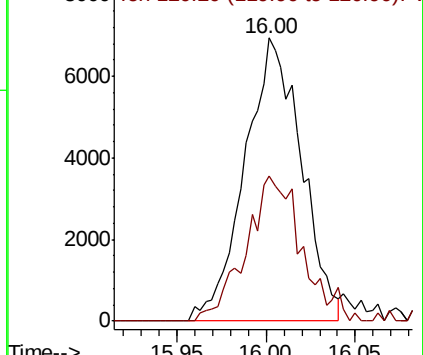
105 100

120 51.3 44.2 66.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.072 ppbv

RT: 16.77 min Scan# 4349

Delta R.T. -0.03 min

Lab File: VL035572.D

Acq: 9 Sep 2020 1:47

Tgt Ion:105 Resp: 40389

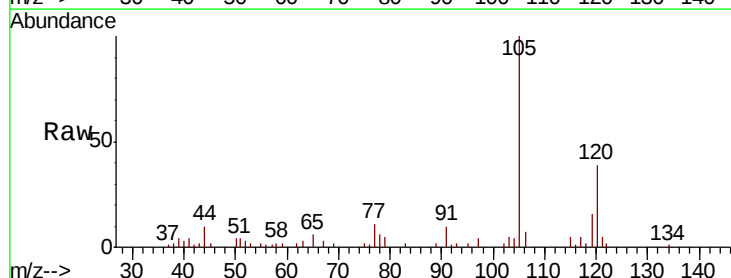
Ion Ratio Lower Upper

105 100

120 39.1 44.4 66.6#

91 9.4 37.1 55.7#

77 10.7 16.0 24.0#

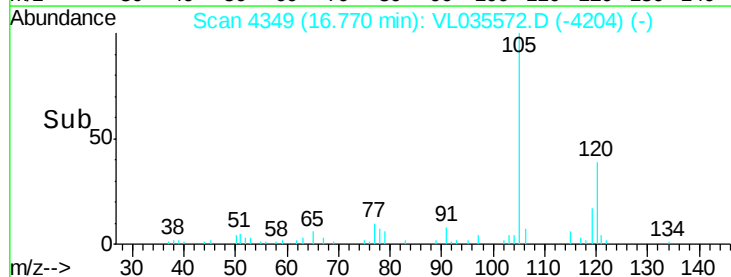
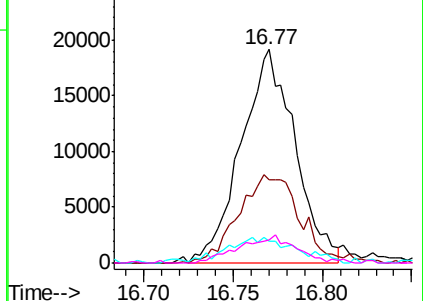


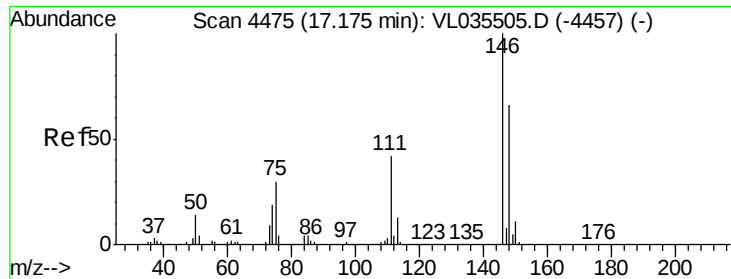
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

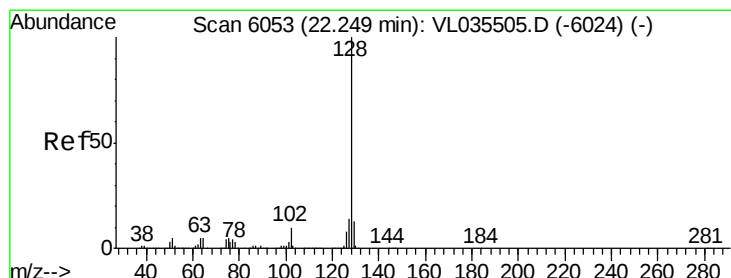
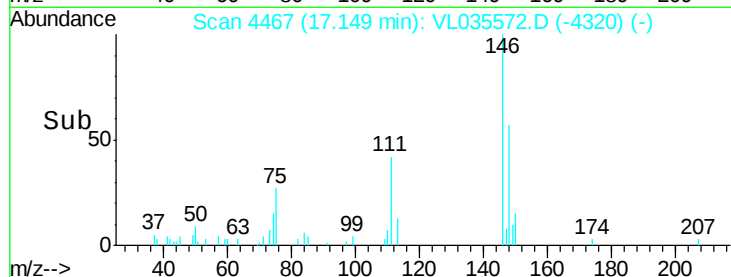
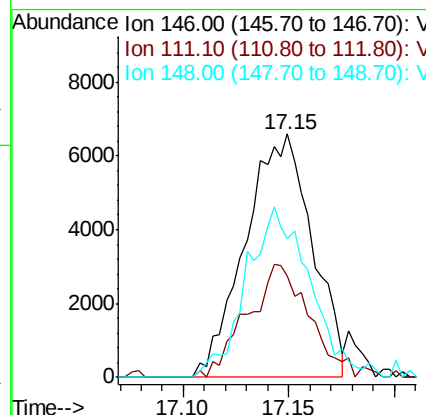
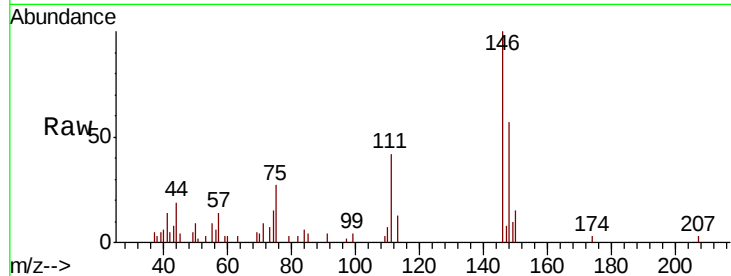




#76
 1,4-Dichlorobenzene
 Concen: 0.036 ppbv
 RT: 17.15 min Scan# 4467
 Delta R.T. -0.03 min
 Lab File: VL035572.D
 Acq: 9 Sep 2020 1:47

Instrument :
 MSVOA_L
 ClientSampled :
 SS-8DL

Tot Ion:146 Resp: 14553
 Ion Ratio Lower Upper
 146 100
 111 43.8 20.0 60.0
 148 67.3 33.2 99.6



#79
 Naphthalene
 Concen: 0.123 ppbv
 RT: 22.22 min Scan# 6044
 Delta R.T. -0.03 min
 Lab File: VL035572.D
 Acq: 9 Sep 2020 1:47

Tgt Ion:128 Resp: 76594
 Ion Ratio Lower Upper
 128 100
 127 10.7 11.4 17.2#
 129 9.4 10.5 15.7#

