

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL100820\
 Data File : VL035750.D
 Acq On : 8 Oct 2020 18:15
 Operator : SY/AP
 Sample : L4312-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Oct 09 01:18:54 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 23 07:38:05 2020
 QLast Update : Wed Sep 23 07:38:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1048369	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.18	114	4050444	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.10	117	4032572	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	3202436	10.60	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	52354	0.304	ppbv 94
3) Chlorodifluoromethane	2.96	51	242006	2.146	ppbv # 64
4) Chloromethane	3.13	50	48931	0.808	ppbv 92
7) Chloroethane	3.11	64	107343	4.084	ppbv 97
9) Propene	3.02	41	72878	1.780	ppbv # 71
10) Heptane	8.12	43	5903	0.052	ppbv # 1
11) Trichlorofluoromethane	3.94	101	68727	0.280	ppbv 88
12) 1,1,2-Trichlorotrifluoroet	4.48	101	14708	0.080	ppbv 92
13) Ethanol	3.60	45	364174	36.062	ppbv 99
15) Acetone	3.84	43	1574609	13.958	ppbv 99
16) 1,3-Butadiene	3.30	39	12249	0.297	ppbv # 30
17) tert-Butyl alcohol	4.31	59	26916	0.219	ppbv # 72
19) Isopropyl Alcohol	3.98	45	141872	2.312	ppbv # 89
20) Methylene Chloride	4.34	84	241561	2.915	ppbv 98
23) Vinyl Acetate	5.06	43	62732	0.454	ppbv # 77
25) Ethyl Acetate	5.68	43	136248	0.671	ppbv # 90
26) Hexane	5.69	57	134114	1.206	ppbv # 68
27) Carbon Disulfide	4.55	76	6546	0.039	ppbv # 49
29) Chloroform	5.75	83	14140	0.063	ppbv 92
30) Cyclohexane	7.13	84	4705	0.043	ppbv # 7
31) cis-1,2-Dichloroethene	5.55	61	4432	0.041	ppbv # 71
34) 2-Butanone	5.25	43	174545	1.303	ppbv 100
35) Carbon Tetrachloride	7.02	117	9085	0.043	ppbv 97
36) Benzene	6.89	78	68864	0.261	ppbv 98
39) 1,2-Dichloropropane	7.18	63	781135	8.165	ppbv # 30
40) 1,4-Dioxane	7.87	88	2030	0.046	ppbv # 1
41) Tetrahydrofuran	6.07	42	2718	0.040	ppbv # 44
44) 2,2,4-Trimethylpentane	7.88	57	56605	0.149	ppbv # 76
52) Tetrachloroethene	11.23	164	19503	0.154	ppbv 93
53) Toluene	9.82	91	329598	1.059	ppbv 96
58) Ethyl Benzene	12.72	91	49355	0.122	ppbv 90
59) m/p-Xylene	12.98	91	217818	0.616	ppbv 99
60) o-Xylene	13.71	91	101030	0.283	ppbv 100
61) Styrene	13.54	104	31323	0.127	ppbv # 30
62) Isopropylbenzene	14.69	105	77851	0.140	ppbv 98
64) n-propylbenzene	15.58	120	98722	0.608	ppbv 70
65) tert-Butylbenzene	16.78	119	308228	0.611	ppbv # 81
66) Benzyl Chloride	17.22	91	42688	0.279	ppbv # 74
67) sec-Butylbenzene	17.31	105	128965	0.185	ppbv 94
69) p-Isopropyltoluene	17.67	119	202618	0.358	ppbv 95
70) n-Butylbenzene	18.58	91	239452	0.410	ppbv # 35

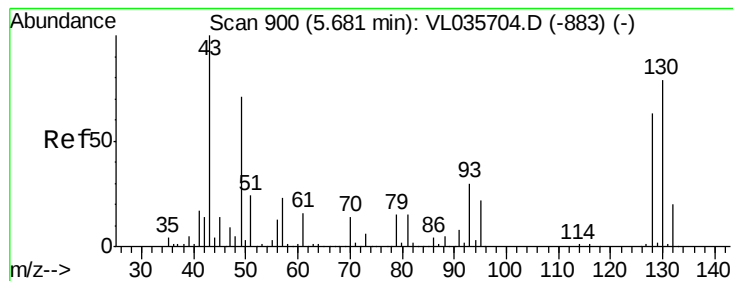
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL100820\
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 23 07:38:05 2020
 QLast Update : Wed Sep 23 07:38:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2-Chlorotoluene	15.34	91	144932	0.358	ppbv #	42
72) 4-Ethyltoluene	15.85	105	654518	1.545	ppbv	97
73) 1,3,5-Trimethylbenzene	16.01	105	1044233	2.609	ppbv	92
74) 1,2,4-Trimethylbenzene	16.78	105	2238118	4.960	ppbv #	74
75) 1,3-Dichlorobenzene	17.16	146	479104	1.555	ppbv	85
76) 1,4-Dichlorobenzene	17.16	146	479104	1.627	ppbv #	85
79) Naphthalene	22.23	128	488069	1.134	ppbv	97
80) Naphthalene,2-methyl-	24.99	142	14676	0.145	ppbv	97

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL035750.D

Acq: 8 Oct 2020 18:15

Instrument :

MSVOA_L

ClientSampleId :

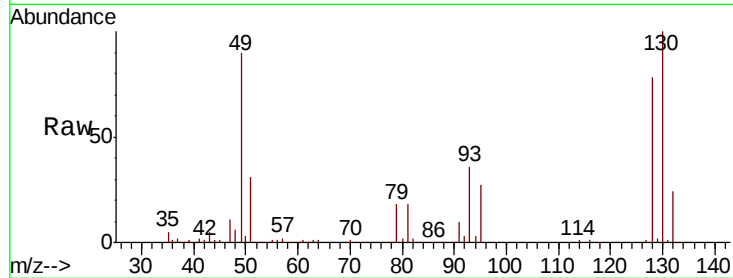
Tot Ion: 49 Resp: 1048369

Ion Ratio Lower Upper

49 100

128 84.4 43.1 129.4

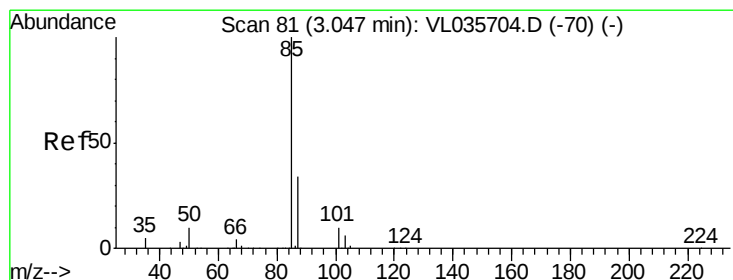
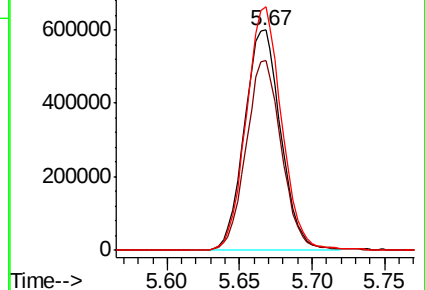
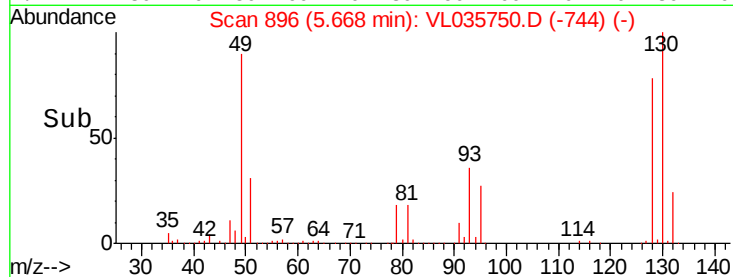
130 108.3 54.9 164.7



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



#2

Dichlorodifluoromethane

Concen: 0.304 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL035750.D

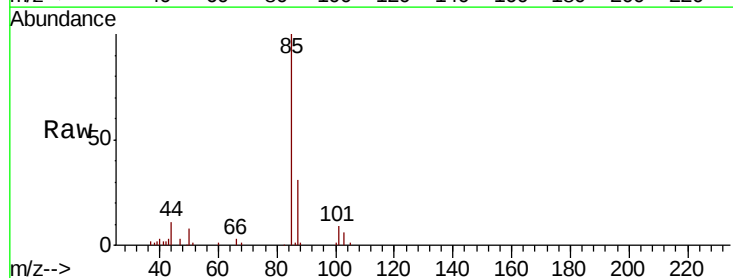
Acq: 8 Oct 2020 18:15

Tgt Ion: 85 Resp: 52354

Ion Ratio Lower Upper

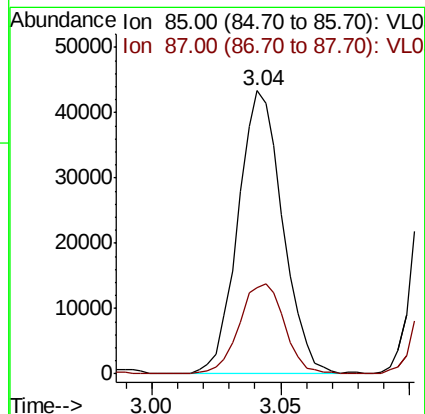
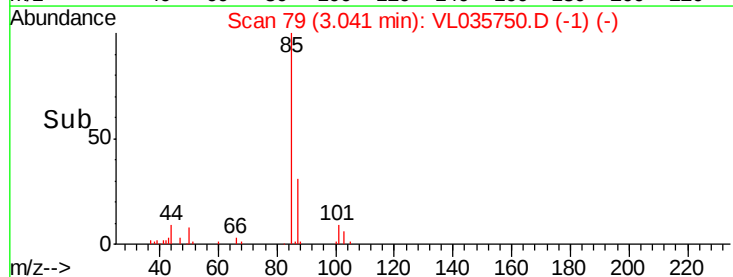
85 100

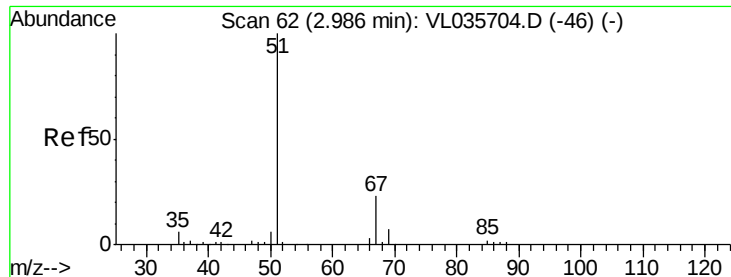
87 30.6 27.3 40.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 2.146 ppbv

RT: 2.96 min Scan# 53

Delta R.T. -0.03 min

Lab File: VL035750.D

Acq: 8 Oct 2020 18:15

Instrument :

MSVOA_L

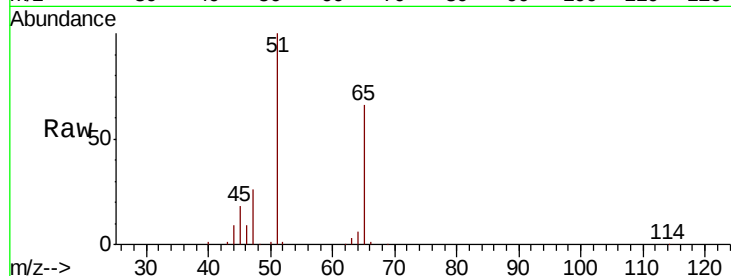
ClientSampleId :

Tot Ion: 51 Resp: 242006

Ion Ratio Lower Upper

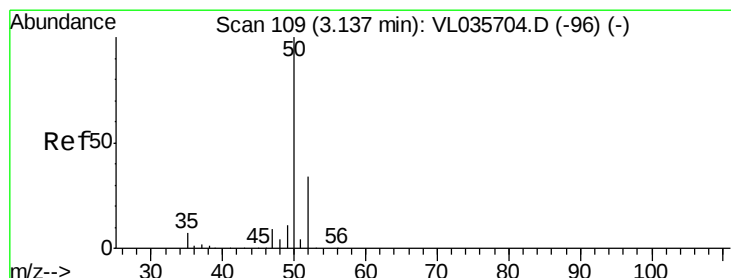
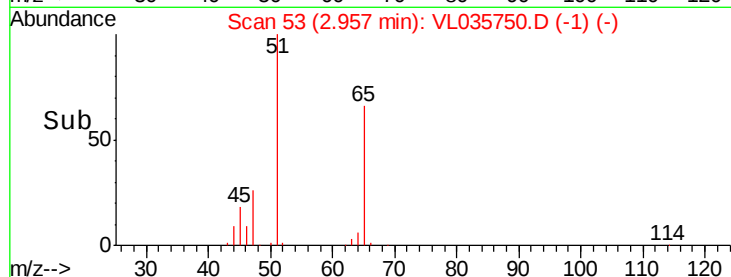
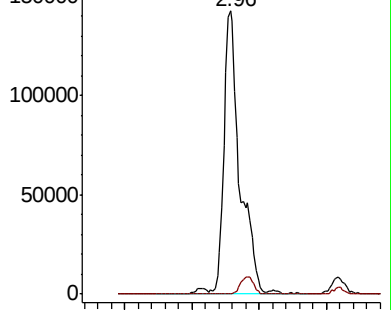
51 100

67 4.9 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: 0.808 ppbv

RT: 3.13 min Scan# 107

Delta R.T. -0.01 min

Lab File: VL035750.D

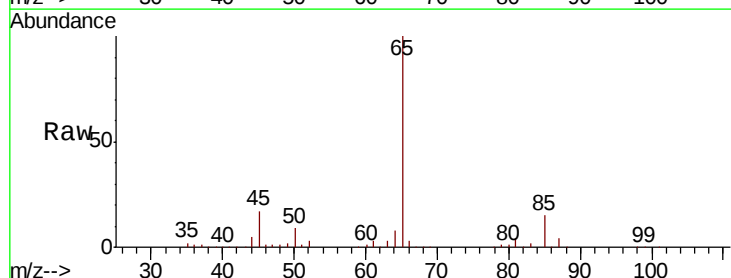
Acq: 8 Oct 2020 18:15

Tgt Ion: 50 Resp: 48931

Ion Ratio Lower Upper

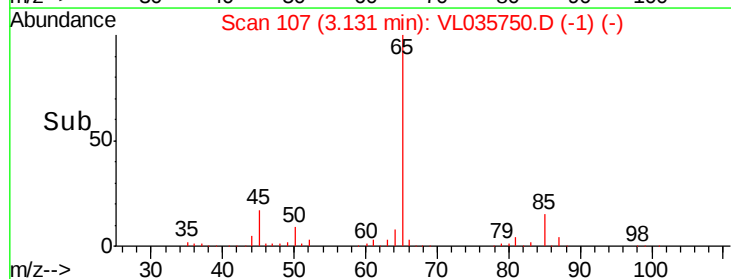
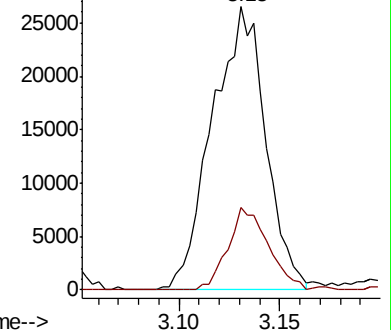
50 100

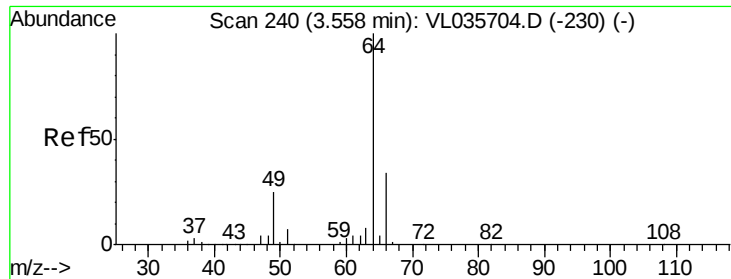
52 29.0 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 4.084 ppbv

RT: 3.11 min Scan# 102

Delta R.T. -0.44 min

Lab File: VL035750.D

Acq: 8 Oct 2020 18:15

Instrument :

MSVOA_L

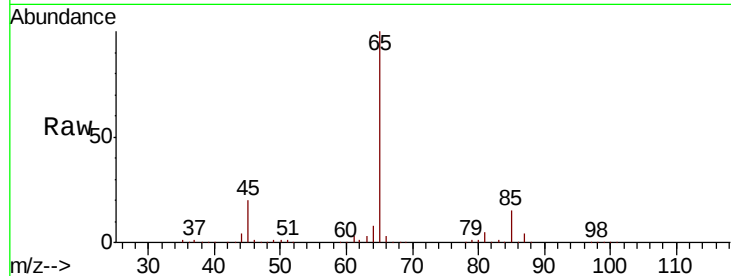
ClientSampleId :

Tot Ion: 64 Resp: 107343

Ion Ratio Lower Upper

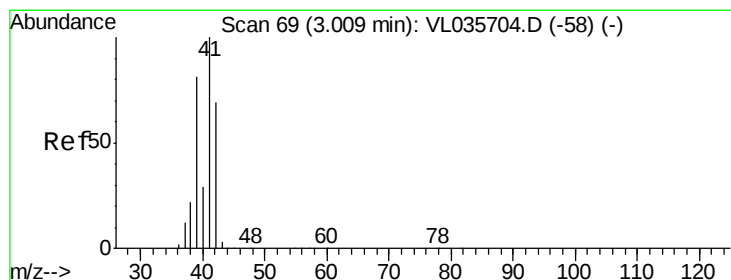
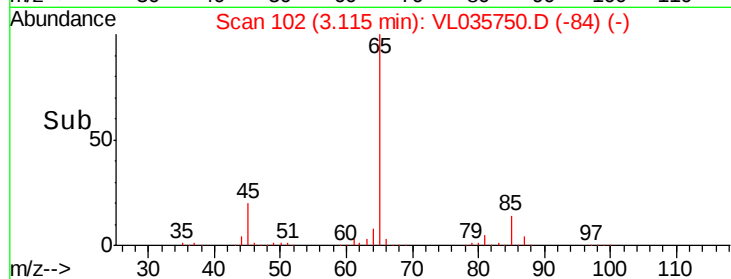
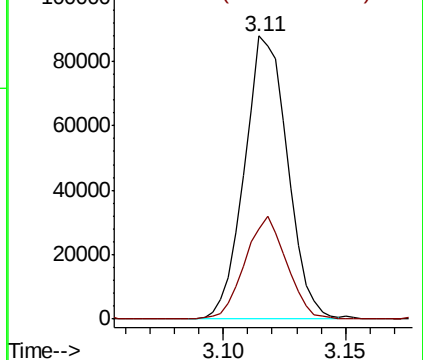
64 100

66 31.9 26.9 40.3



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#9

Propene

Concen: 1.780 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL035750.D

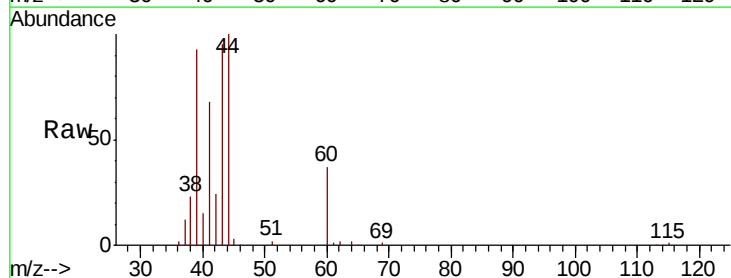
Acq: 8 Oct 2020 18:15

Tgt Ion: 41 Resp: 72878

Ion Ratio Lower Upper

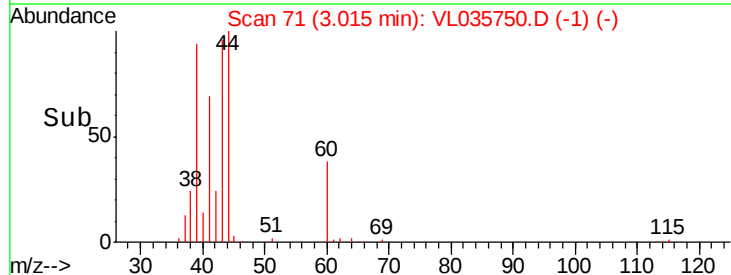
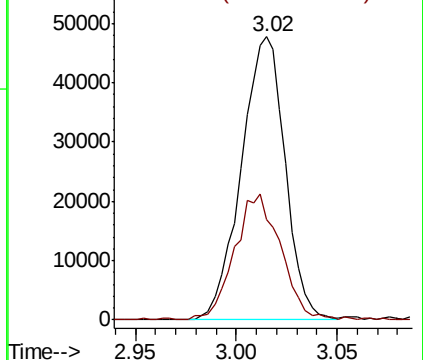
41 100

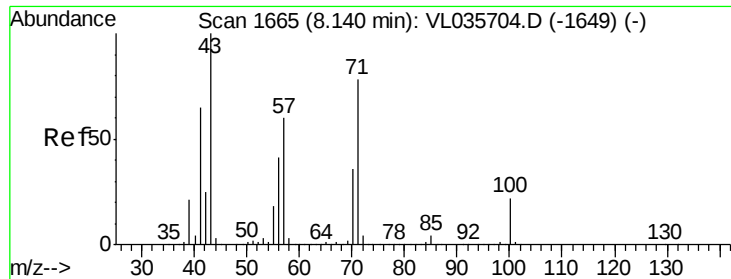
42 46.8 56.2 84.4#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

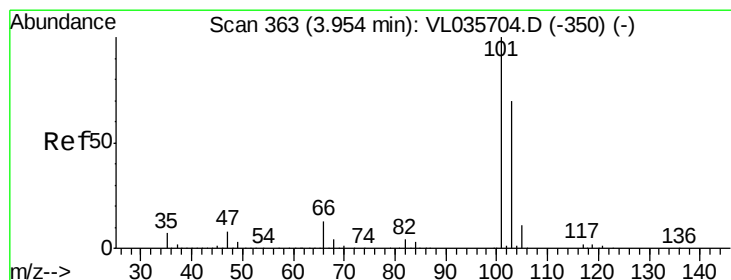
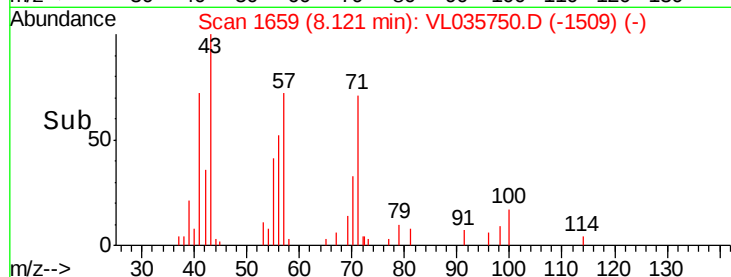
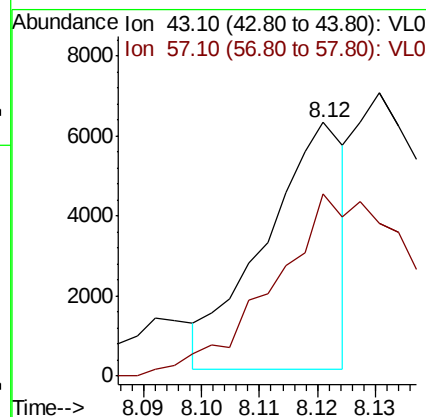
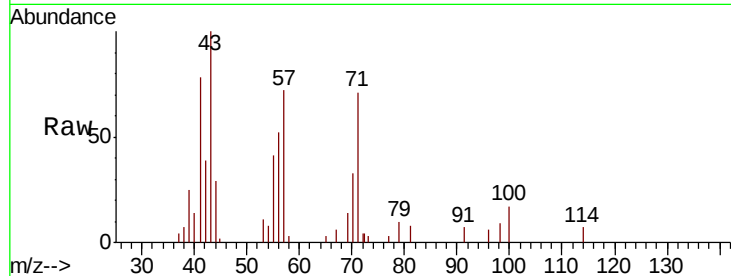




#10
 Heptane
 Concen: 0.052 ppbv
 RT: 8.12 min Scan# 1659
 Delta R.T. -0.02 min
 Lab File: VL035750.D
 Acq: 8 Oct 2020 18:15

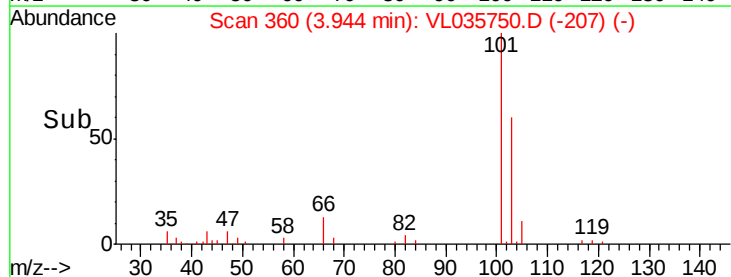
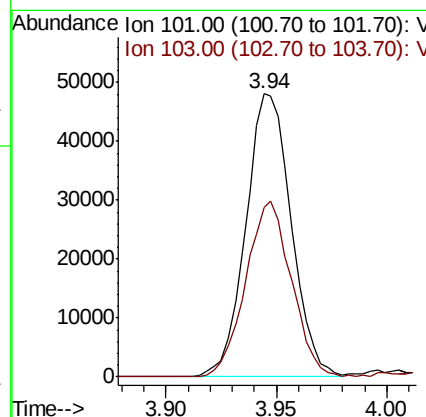
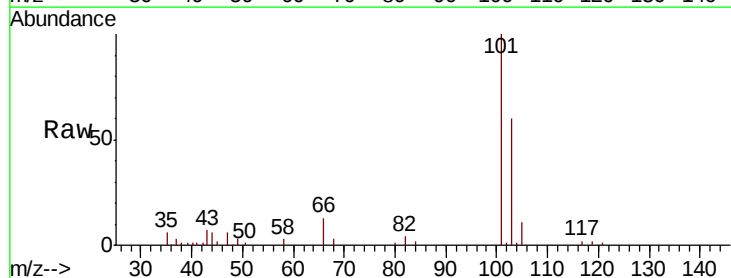
Instrument :
 MSVOA_L
 ClientSampleId :

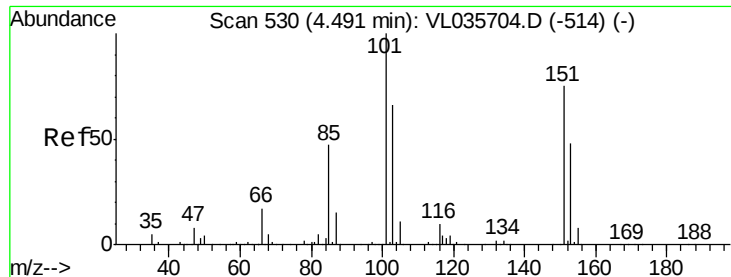
Tot Ion: 43 Resp: 5903
 Ion Ratio Lower Upper
 43 100
 57 144.4 50.4 75.6#



#11
 Trichlorofluoromethane
 Concen: 0.280 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. -0.01 min
 Lab File: VL035750.D
 Acq: 8 Oct 2020 18:15

Tgt Ion: 101 Resp: 68727
 Ion Ratio Lower Upper
 101 100
 103 60.1 55.6 83.4

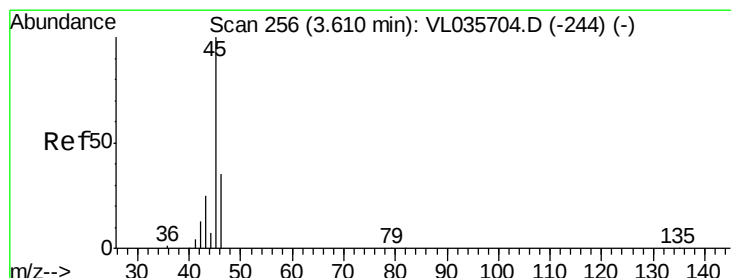
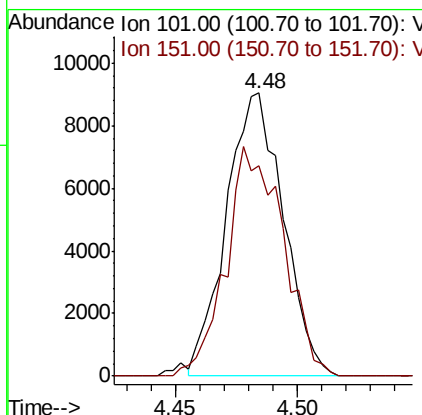
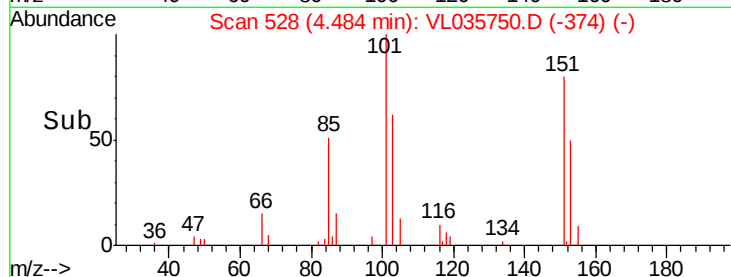
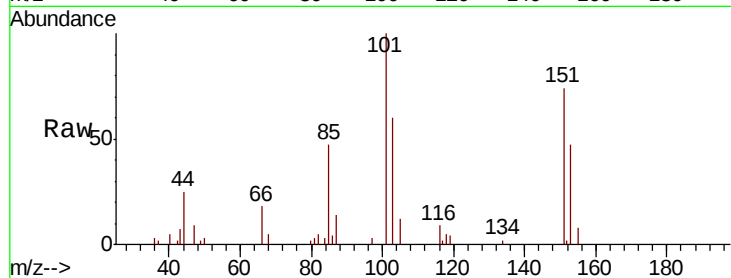




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.080 ppbv
 RT: 4.48 min Scan# 528
 Delta R.T. -0.01 min
 Lab File: VL035750.D
 Acq: 8 Oct 2020 18:15

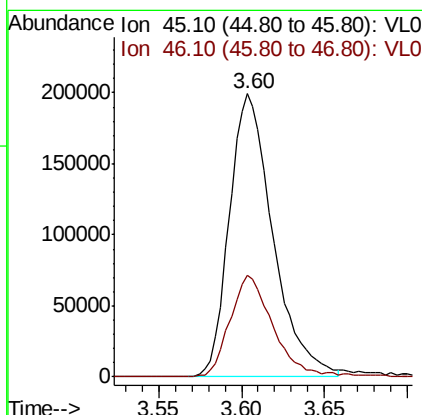
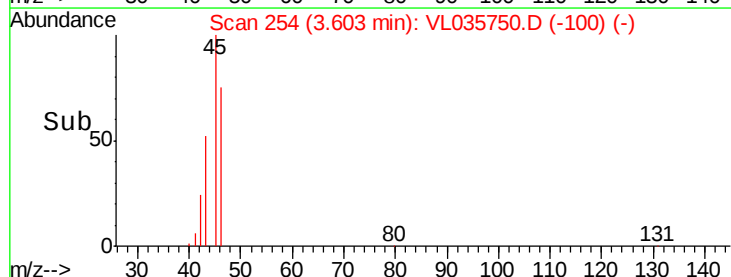
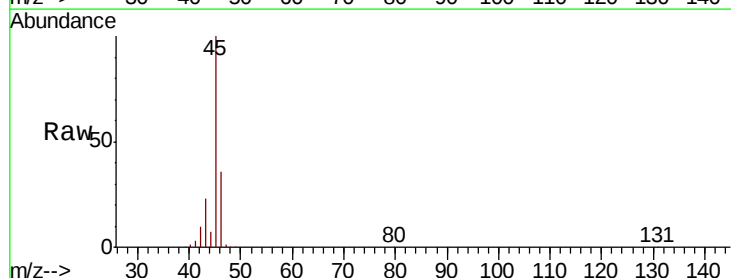
Instrument :
 MSVOA_L
 ClientSampleId :

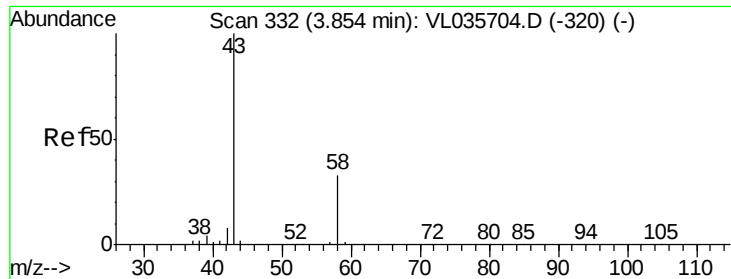
Tot Ion:101 Resp: 14708
 Ion Ratio Lower Upper
 101 100
 151 81.1 59.1 88.7



#13
 Ethanol
 Concen: 36.062 ppbv
 RT: 3.60 min Scan# 254
 Delta R.T. -0.01 min
 Lab File: VL035750.D
 Acq: 8 Oct 2020 18:15

Tgt Ion: 45 Resp: 364174
 Ion Ratio Lower Upper
 45 100
 46 36.1 14.7 58.7





#15

Acetone

Concen: 13.958 ppbv

RT: 3.84 min Scan# 328

Delta R.T. -0.01 min

Lab File: VL035750.D

Acq: 8 Oct 2020 18:15

Instrument :

MSVOA_L

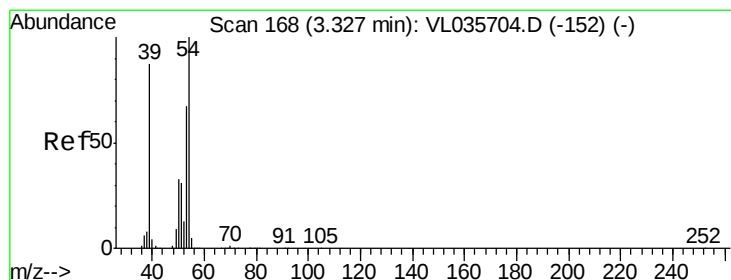
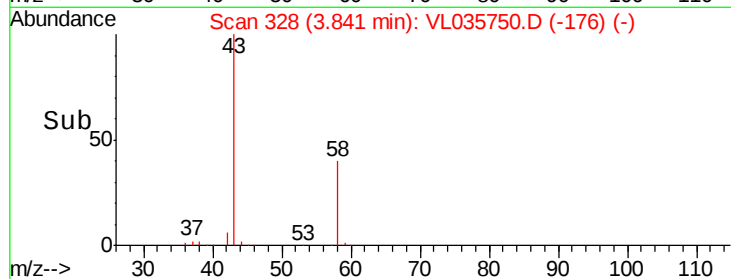
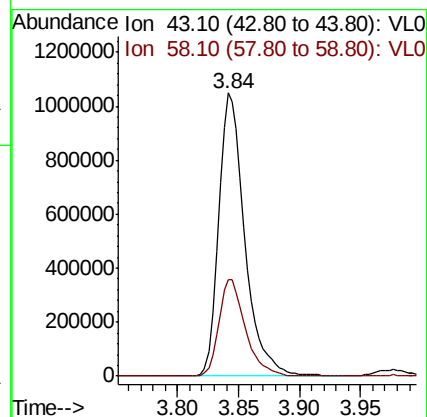
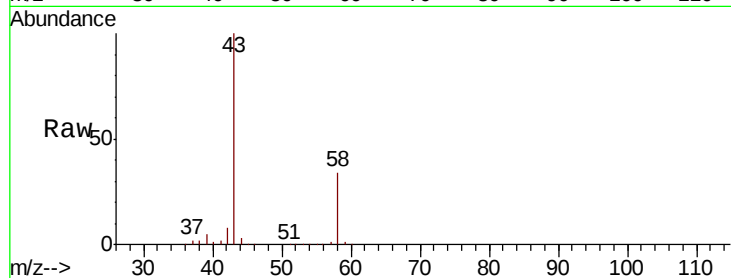
ClientSampled :

Tot Ion: 43 Resp: 1574609

Ion Ratio Lower Upper

43 100

58 34.8 27.3 40.9



#16

1,3-Butadiene

Concen: 0.297 ppbv

RT: 3.30 min Scan# 160

Delta R.T. -0.03 min

Lab File: VL035750.D

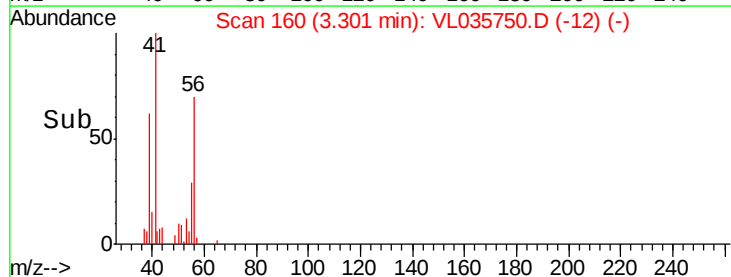
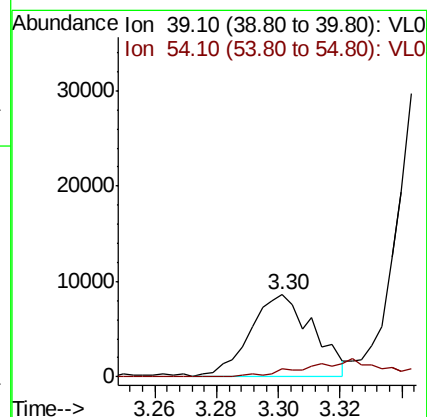
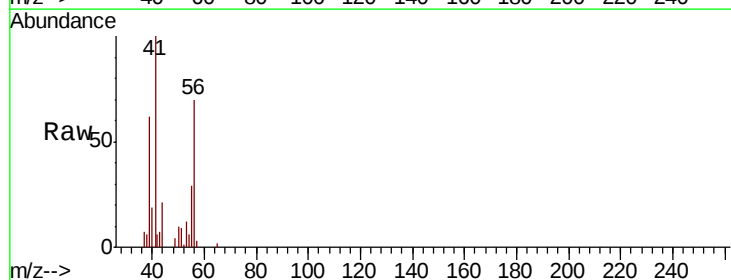
Acq: 8 Oct 2020 18:15

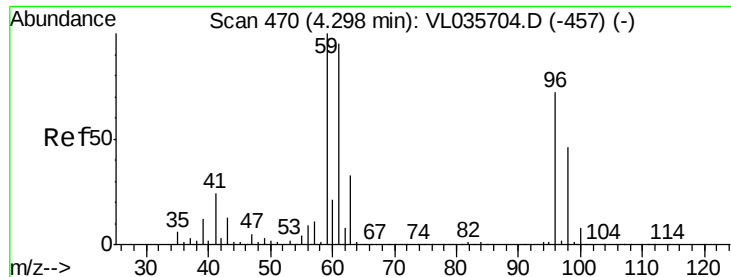
Tgt Ion: 39 Resp: 12249

Ion Ratio Lower Upper

39 100

54 35.1 87.4 131.0#





#17

tert-Butyl alcohol

Concen: 0.219 ppbv

RT: 4.31 min Scan# 473

Delta R.T. 0.01 min

Lab File: VL035750.D

Acq: 8 Oct 2020 18:15

Instrument :

MSVOA_L

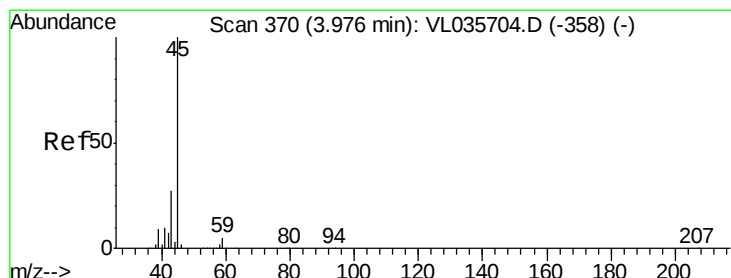
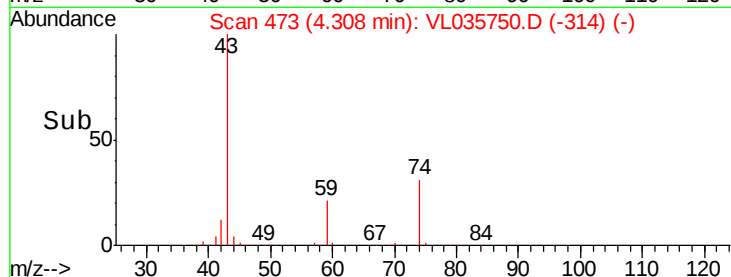
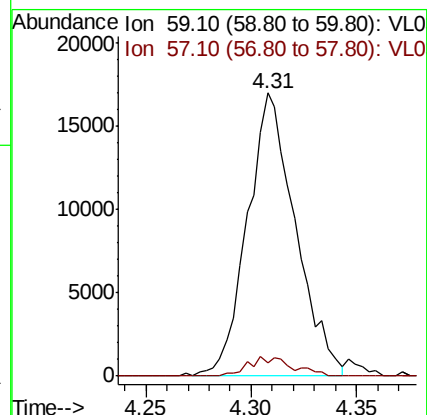
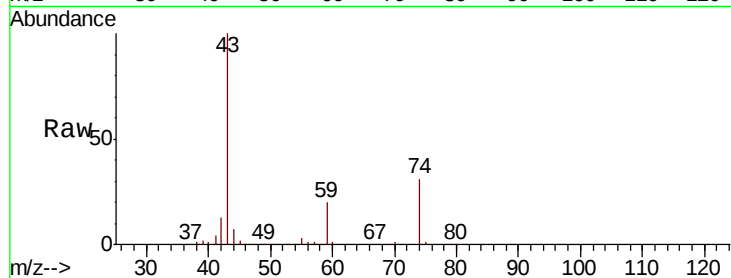
ClientSampleId :

Tot Ion: 59 Resp: 26916

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



#19

Isopropyl Alcohol

Concen: 2.312 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.00 min

Lab File: VL035750.D

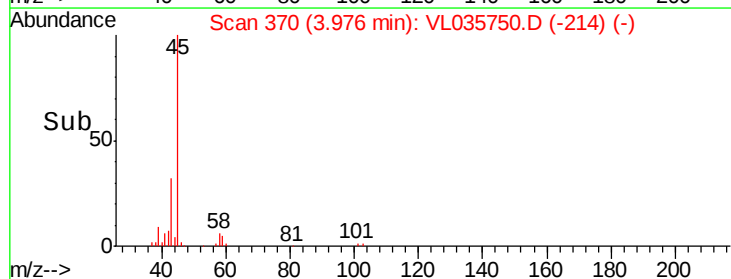
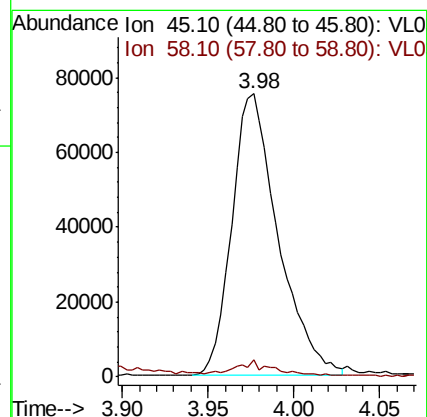
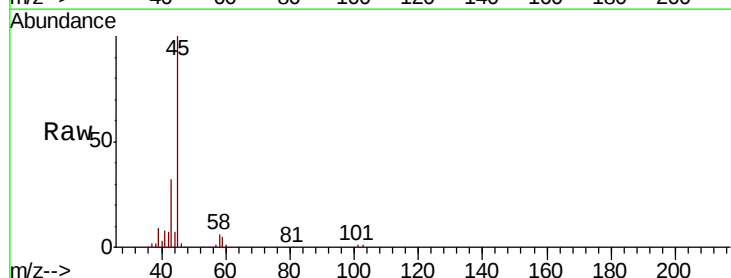
Acq: 8 Oct 2020 18:15

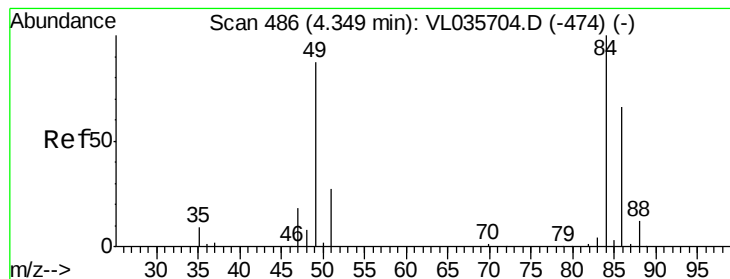
Tgt Ion: 45 Resp: 141872

Ion Ratio Lower Upper

45 100

58 0.0 2.8 4.2#





#20

Methvlene Chloride

Concen: 2.915 ppbv

RT: 4.34 min Scan# 484

Delta R.T. -0.01 min

Lab File: VL035750.D

Acq: 8 Oct 2020 18:15

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 84 Resp: 241561

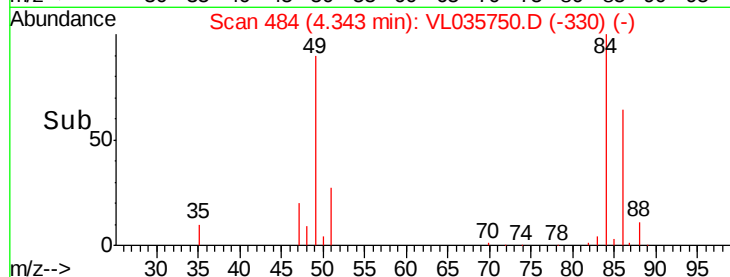
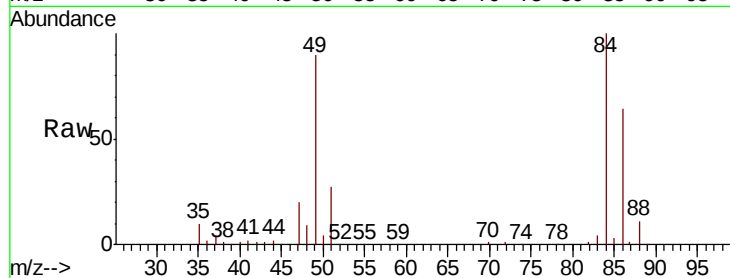
Ion Ratio Lower Upper

84 100

49 89.7 69.8 104.6

51 27.1 21.8 32.8

86 63.8 52.6 78.8

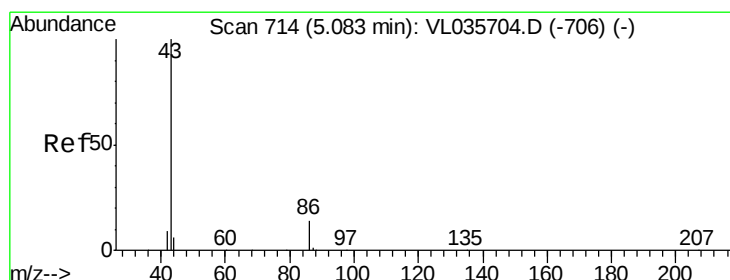
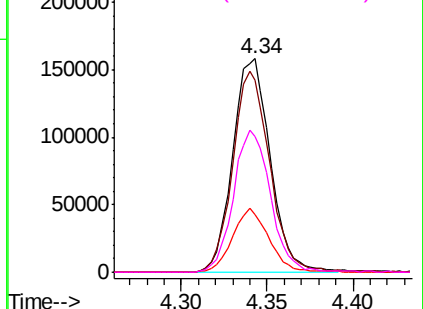


Abundance Ion 84.00 (83.70 to 84.70): VL0

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



#23

Vinyl Acetate

Concen: 0.454 ppbv

RT: 5.06 min Scan# 707

Delta R.T. -0.02 min

Lab File: VL035750.D

Acq: 8 Oct 2020 18:15

Tgt Ion: 43 Resp: 62732

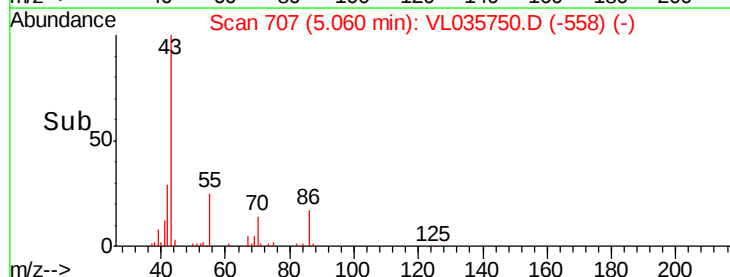
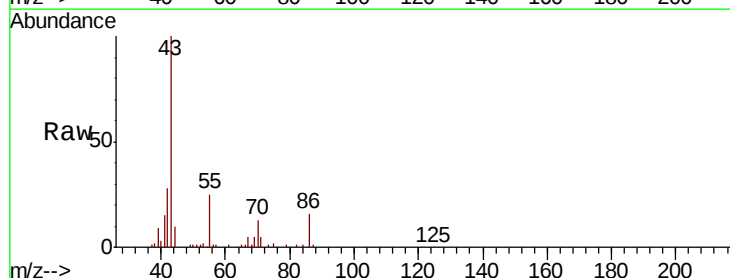
Ion Ratio Lower Upper

43 100

86 16.7 9.7 14.5#

42 27.0 7.9 11.9#

44 3.7 4.8 7.2#

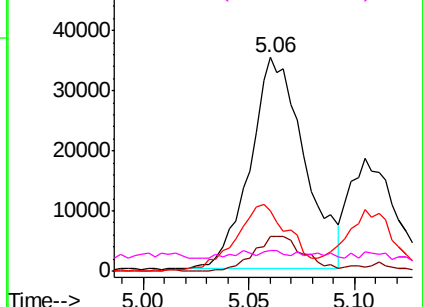


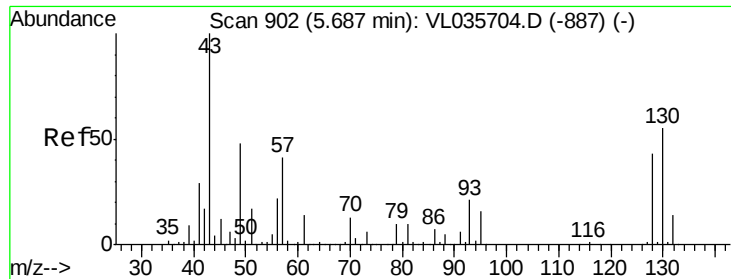
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

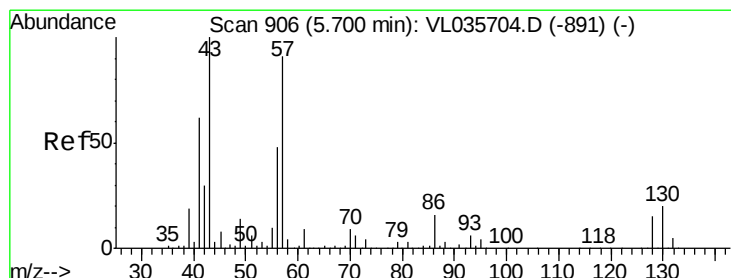
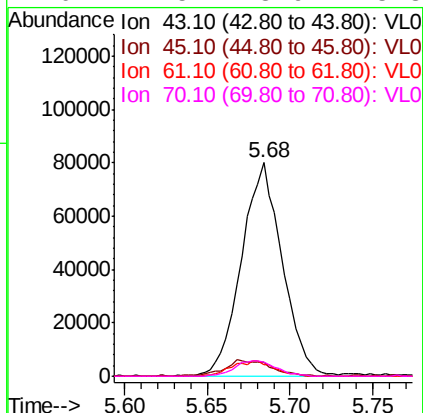
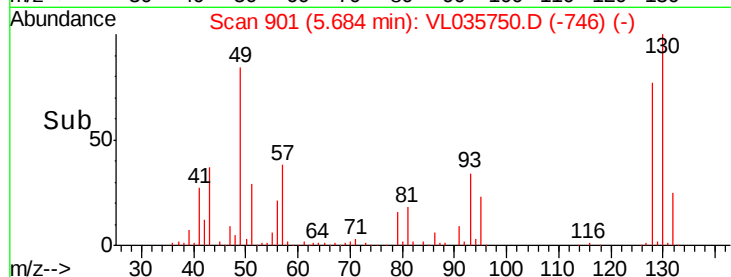
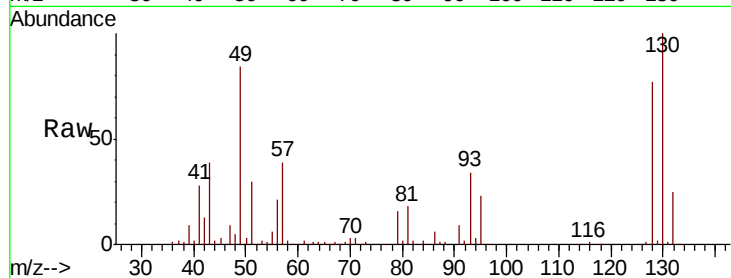




#25
Ethyl Acetate
Concen: 0.671 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL035750.D
Acq: 8 Oct 2020 18:15

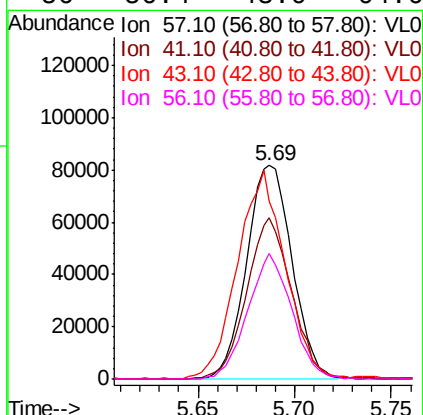
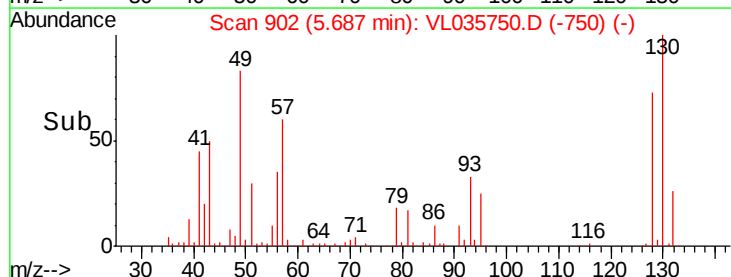
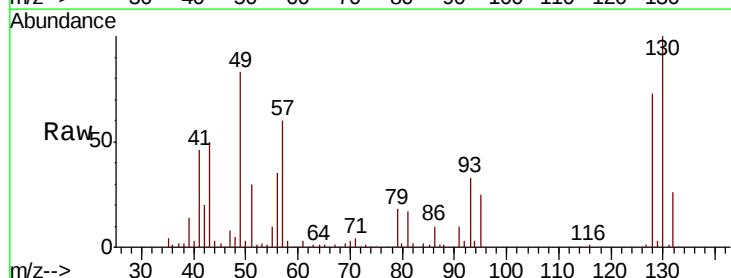
Instrument :
MSVOA_L
ClientSampleId :

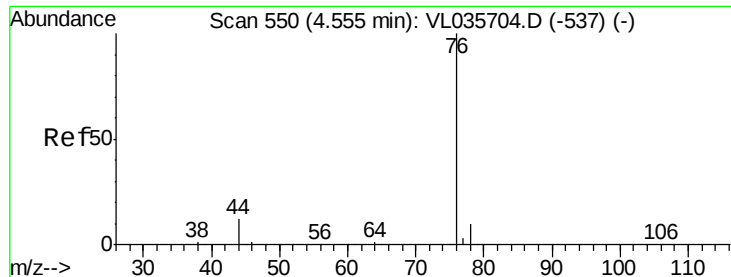
Tot Ion: 43 Resp: 136248
Ion Ratio Lower Upper
43 100
45 9.0 8.6 12.8
61 7.5 10.4 15.6#
70 7.5 8.9 13.3#



#26
Hexane
Concen: 1.206 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.01 min
Lab File: VL035750.D
Acq: 8 Oct 2020 18:15

Tgt Ion: 57 Resp: 134114
Ion Ratio Lower Upper
57 100
41 74.9 57.9 86.9
43 104.8 143.8 215.6#
56 56.4 43.0 64.6





#27

Carbon Disulfide

Concen: 0.039 ppbv

RT: 4.55 min Scan# 548

Delta R.T. -0.01 min

Lab File: VL035750.D

Acq: 8 Oct 2020 18:15

Instrument :
MSVOA_L
ClientSampleId :

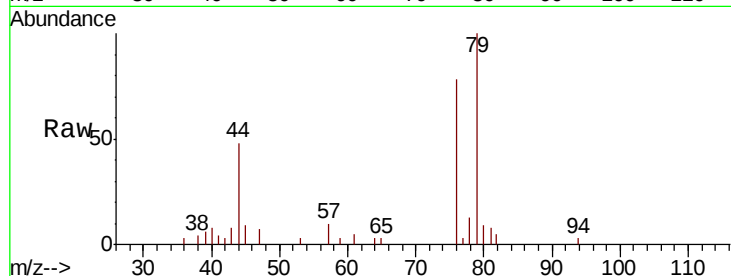
Tot Ion: 76 Resp: 6546

Ion Ratio Lower Upper

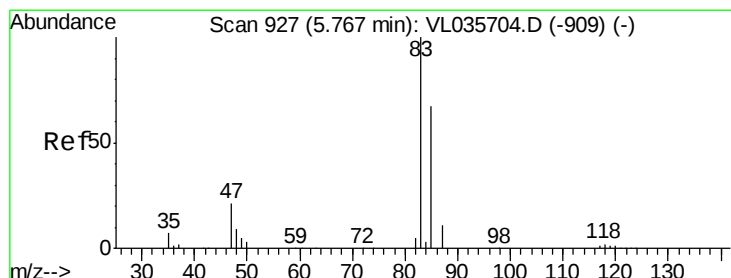
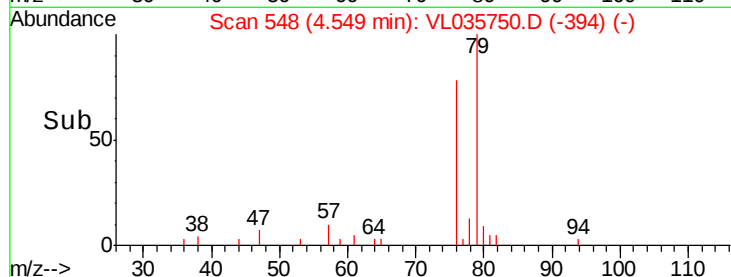
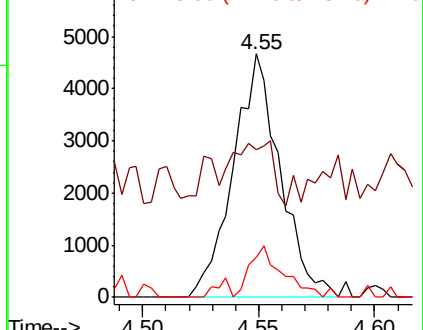
76 100

44 42.0 9.7 14.5#

78 17.1 7.8 11.8#



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



#29

Chloroform

Concen: 0.063 ppbv

RT: 5.75 min Scan# 921

Delta R.T. -0.02 min

Lab File: VL035750.D

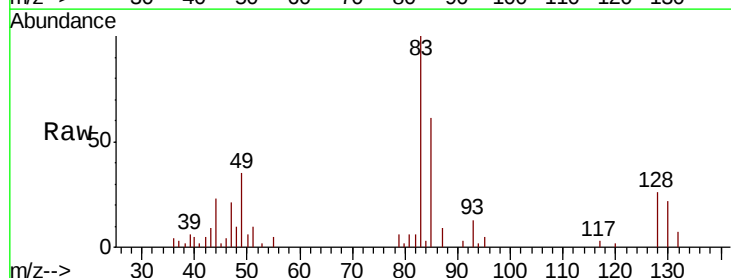
Acq: 8 Oct 2020 18:15

Tgt Ion: 83 Resp: 14140

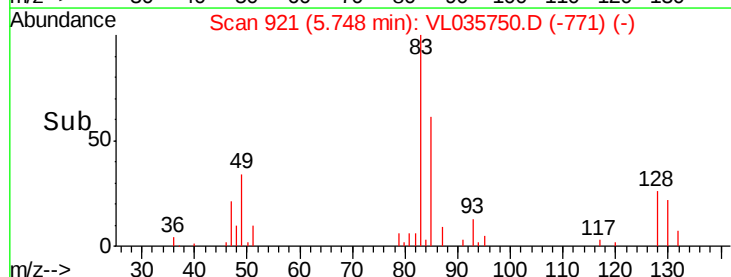
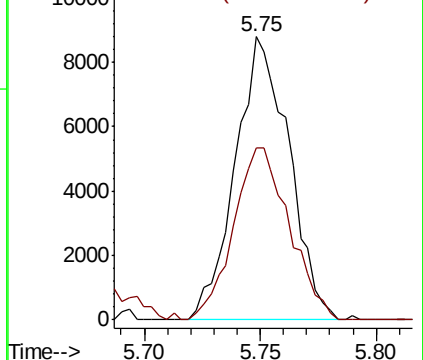
Ion Ratio Lower Upper

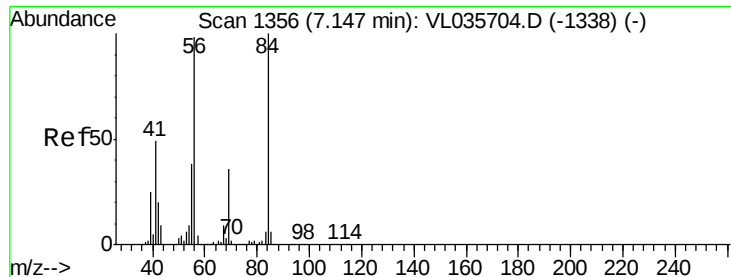
83 100

85 60.8 54.0 81.0



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

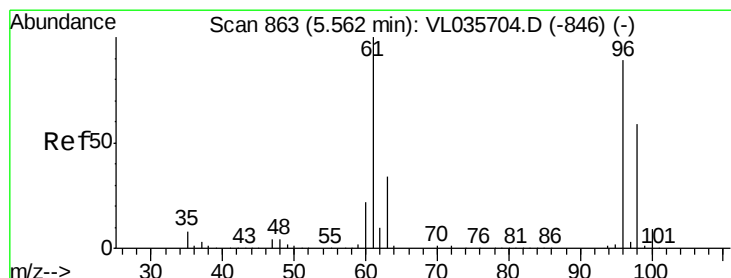
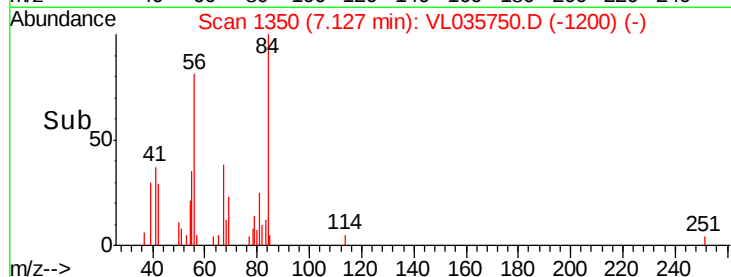
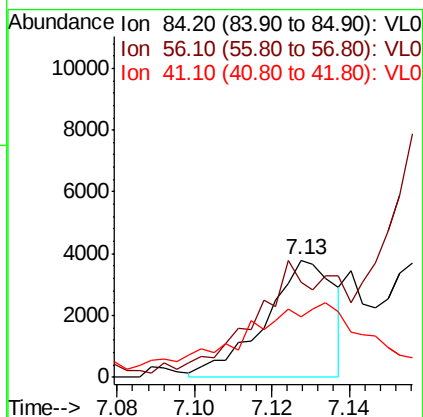
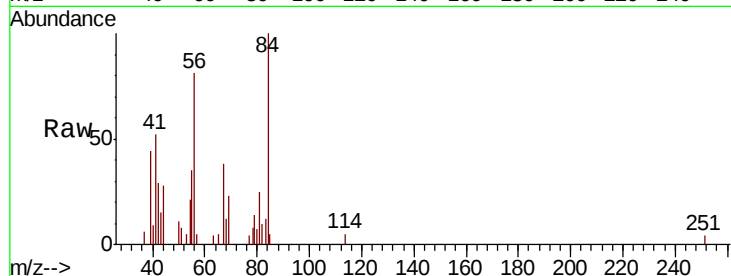




#30
Cvclohexane
Concen: 0.043 ppbv
RT: 7.13 min Scan# 1350
Delta R.T. -0.02 min
Lab File: VL035750.D
Acq: 8 Oct 2020 18:15

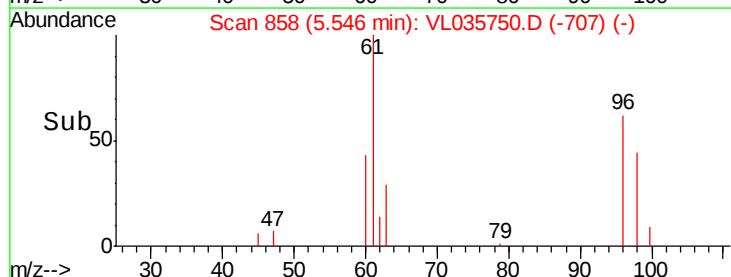
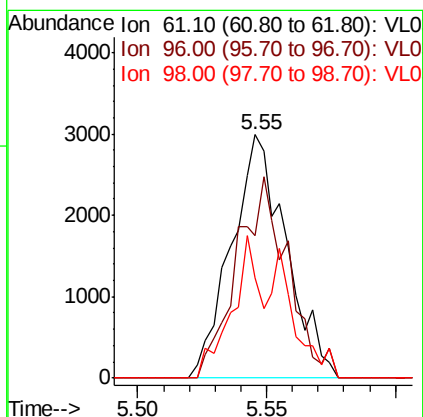
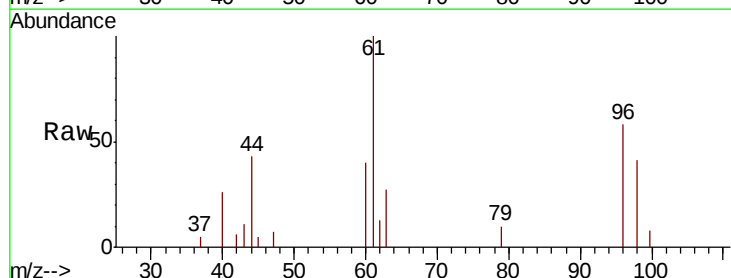
Instrument :
MSVOA_L
ClientSampleId :

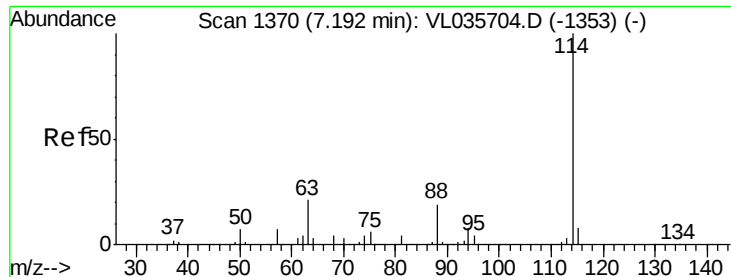
Tot Ion: 84 Resp: 4705
Ion Ratio Lower Upper
84 100
56 0.0 84.6 127.0#
41 0.0 41.1 61.7#



#31
cis-1,2-Dichloroethene
Concen: 0.041 ppbv
RT: 5.55 min Scan# 858
Delta R.T. -0.02 min
Lab File: VL035750.D
Acq: 8 Oct 2020 18:15

Tgt Ion: 61 Resp: 4432
Ion Ratio Lower Upper
61 100
96 58.3 71.4 107.2#
98 41.3 47.4 71.2#

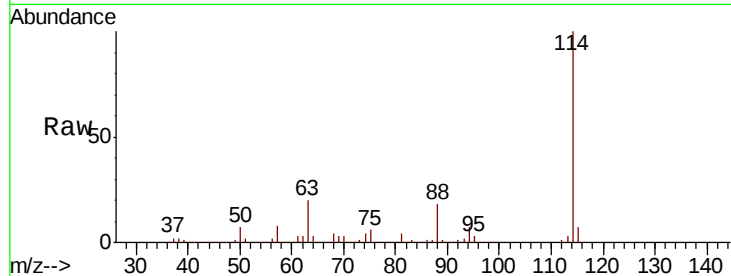




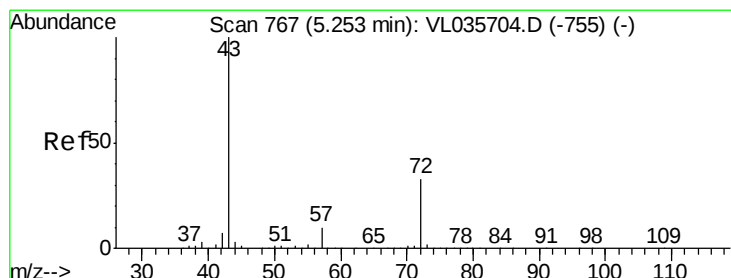
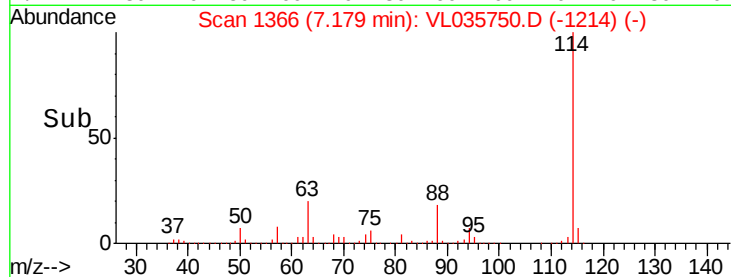
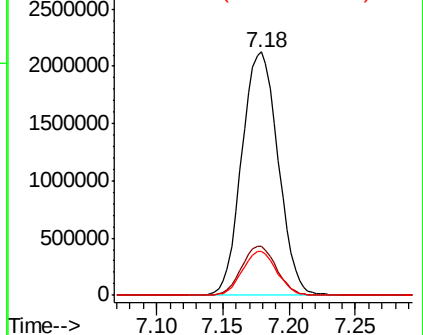
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. -0.01 min
 Lab File: VL035750.D
 Acq: 8 Oct 2020 18:15

Instrument :
 MSVOA_L
 ClientSampleID :

Tot Ion:114 Resp: 4050444
 Ion Ratio Lower Upper
 114 100
 63 19.4 16.1 24.1
 88 17.2 14.1 21.1

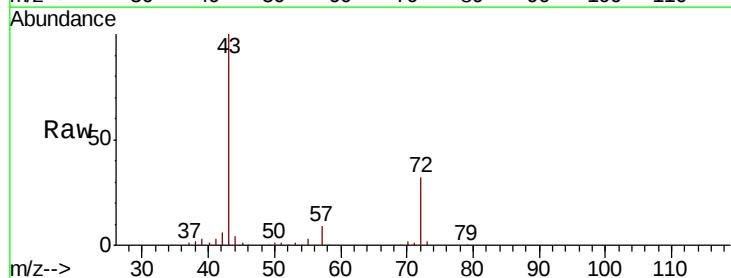


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

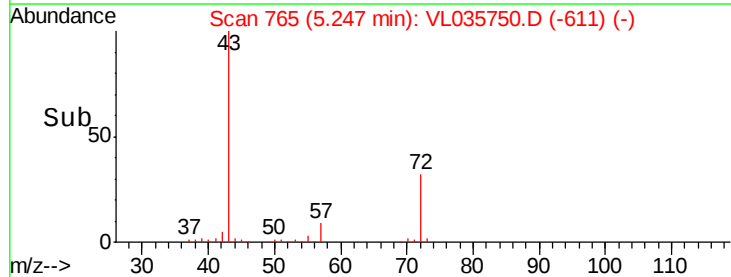
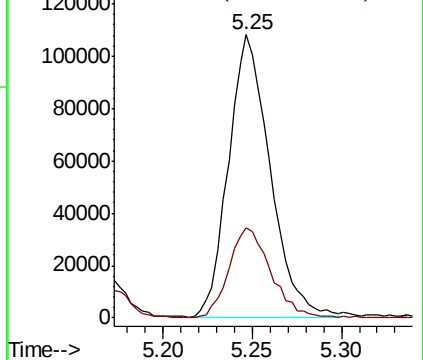


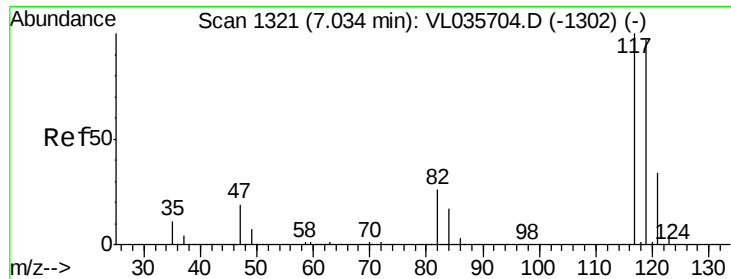
#34
 2-Butanone
 Concen: 1.303 ppbv
 RT: 5.25 min Scan# 765
 Delta R.T. -0.01 min
 Lab File: VL035750.D
 Acq: 8 Oct 2020 18:15

Tgt Ion: 43 Resp: 174545
 Ion Ratio Lower Upper
 43 100
 72 32.6 26.1 39.1



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0

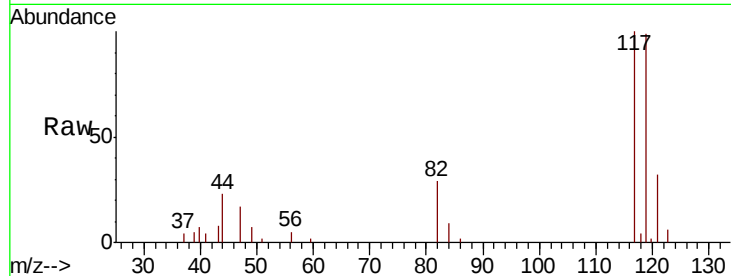




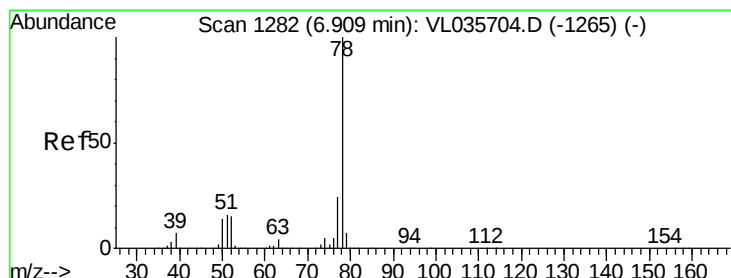
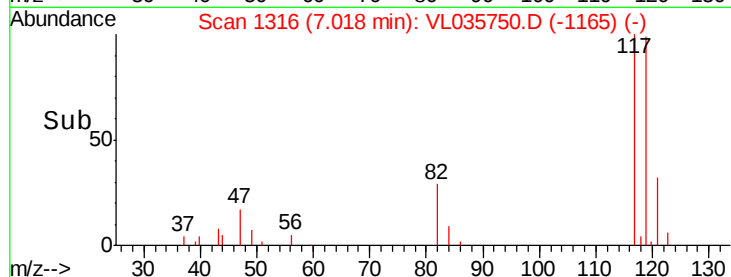
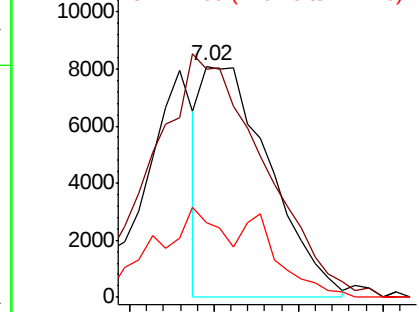
#35
Carbon Tetrachloride
Concen: 0.043 ppbv
RT: 7.02 min Scan# 1316
Delta R.T. -0.02 min
Lab File: VL035750.D
Acq: 8 Oct 2020 18:15

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:117 Resp: 9085
Ion Ratio Lower Upper
117 100
119 94.2 77.7 116.5
121 30.7 26.9 40.3

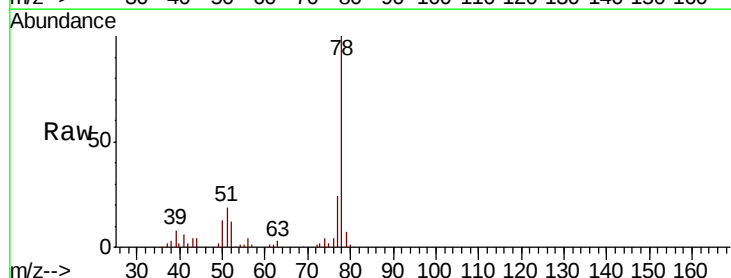


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

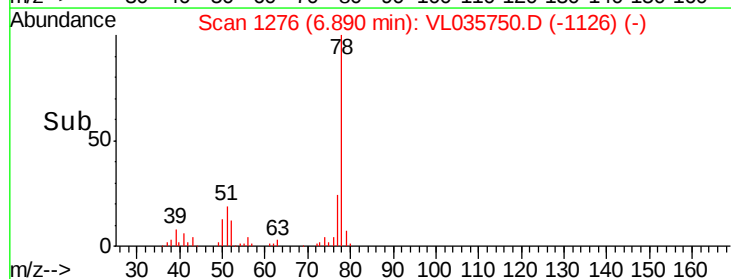
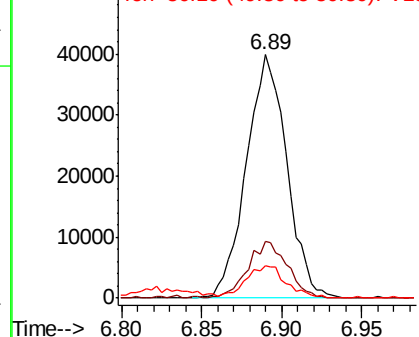


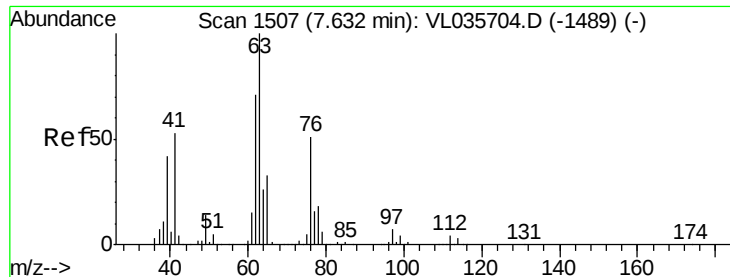
#36
Benzene
Concen: 0.261 ppbv
RT: 6.89 min Scan# 1276
Delta R.T. -0.02 min
Lab File: VL035750.D
Acq: 8 Oct 2020 18:15

Tgt Ion: 78 Resp: 68864
Ion Ratio Lower Upper
78 100
77 23.5 19.3 28.9
50 13.4 11.6 17.4



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0

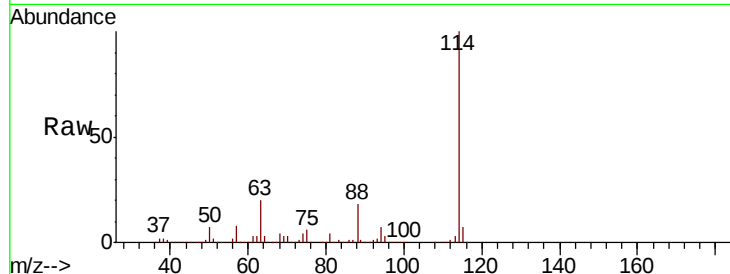




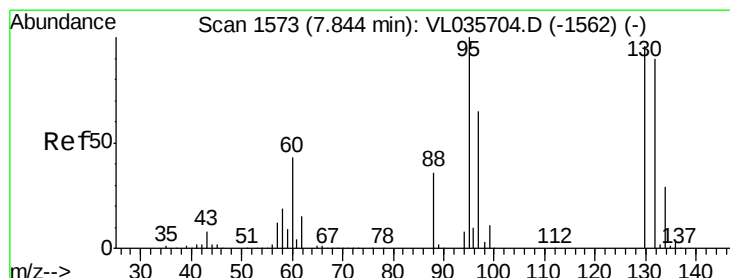
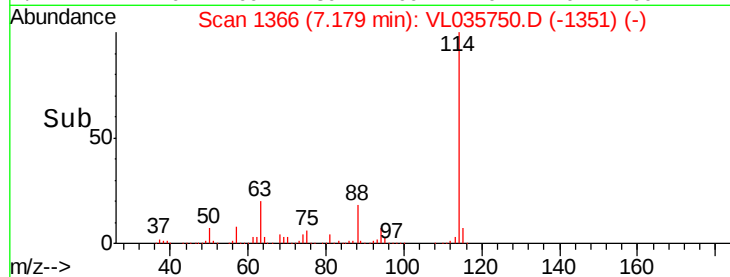
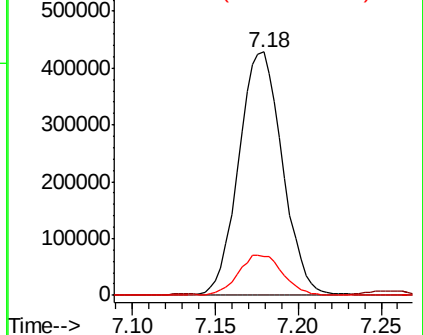
#39
 1,2-Dichloropropane
 Concen: 8.165 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. -0.45 min
 Lab File: VL035750.D
 Acq: 8 Oct 2020 18:15

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 63 Resp: 781135
 Ion Ratio Lower Upper
 63 100
 41 0.0 42.6 63.8#
 62 16.2 56.5 84.7#

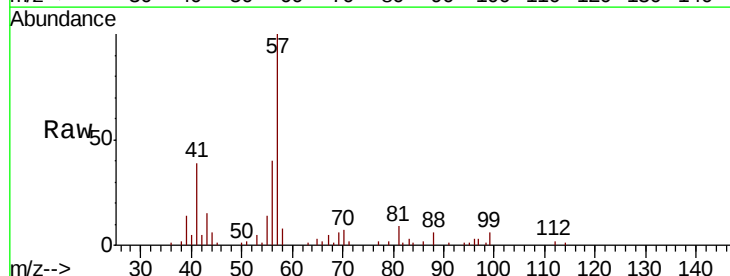


Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

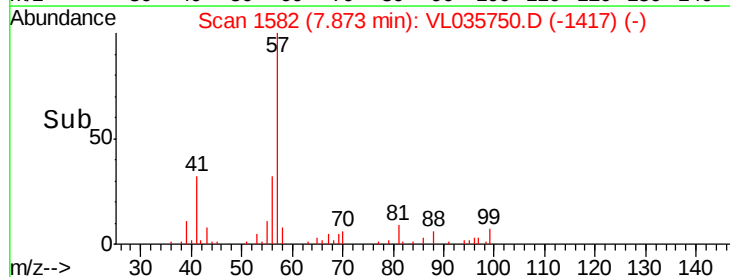
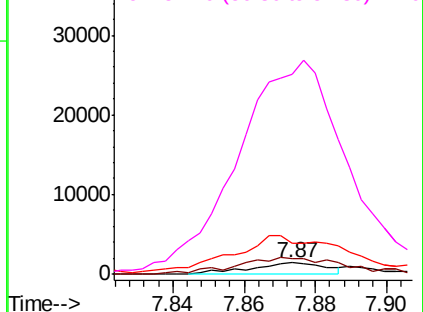


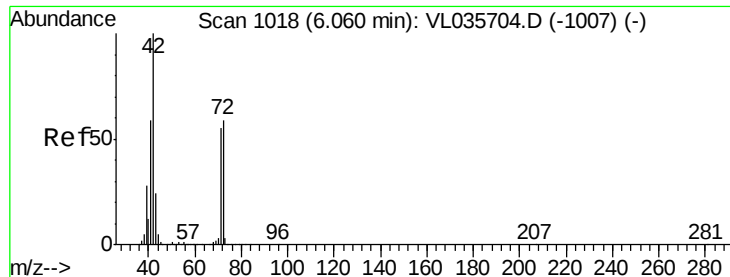
#40
 1,4-Dioxane
 Concen: 0.046 ppbv
 RT: 7.87 min Scan# 1582
 Delta R.T. 0.03 min
 Lab File: VL035750.D
 Acq: 8 Oct 2020 18:15

Tgt Ion: 88 Resp: 2030
 Ion Ratio Lower Upper
 88 100
 58 219.3 76.2 114.4#
 43 562.9 123.4 185.2#
 57 2934.2 652.5 978.7#



Abundance Ion 88.10 (87.80 to 88.80): VL0
 Ion 58.10 (57.80 to 58.80): VL0
 Ion 43.10 (42.80 to 43.80): VL0
 Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 0.040 ppbv

RT: 6.07 min Scan# 1020

Delta R.T. 0.01 min

Lab File: VL035750.D

Acq: 8 Oct 2020 18:15

Instrument :

MSVOA_L

ClientSampleId :

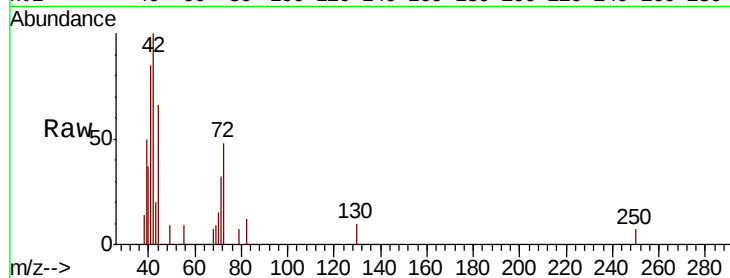
Tot Ion: 42 Resp: 2718

Ion Ratio Lower Upper

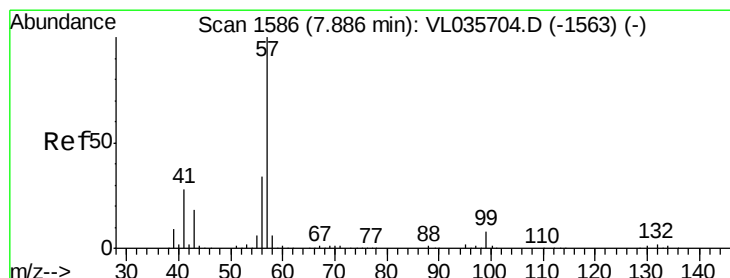
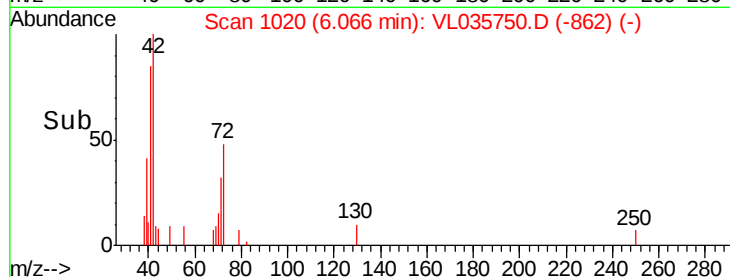
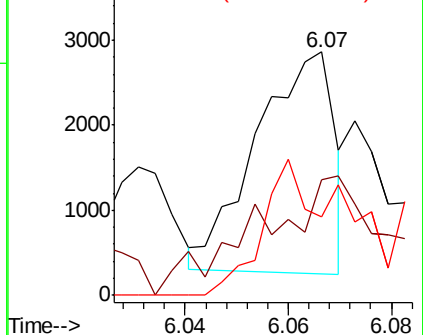
42 100

72 0.0 46.2 69.4#

71 79.5 44.2 66.4#



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.149 ppbv

RT: 7.88 min Scan# 1583

Delta R.T. -0.01 min

Lab File: VL035750.D

Acq: 8 Oct 2020 18:15

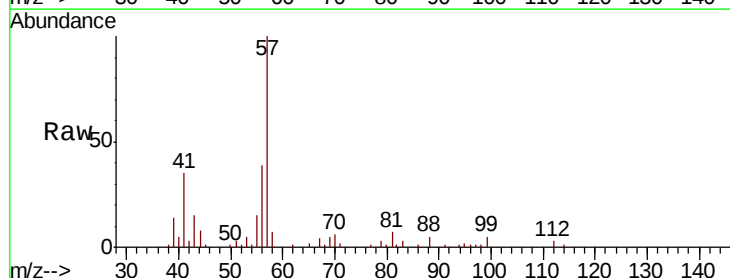
Tgt Ion: 57 Resp: 56605

Ion Ratio Lower Upper

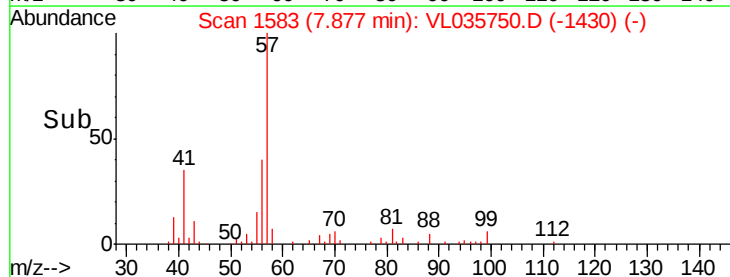
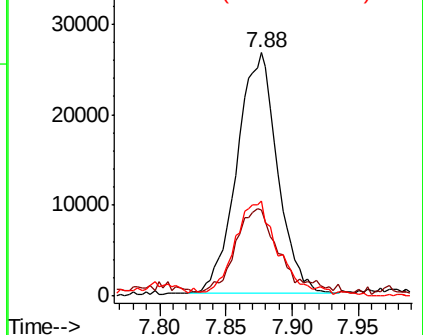
57 100

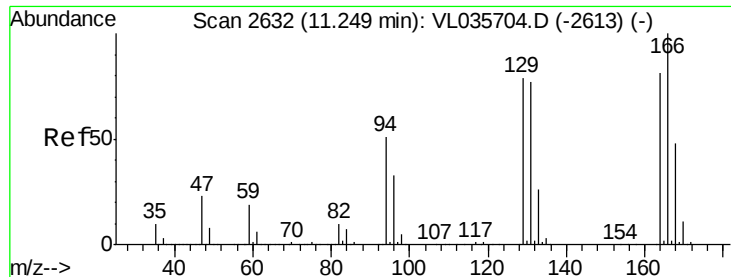
41 41.2 21.2 31.8#

56 43.2 25.8 38.8#



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





#52

Tetrachloroethene

Concen: 0.154 ppbv

RT: 11.23 min Scan# 2625

Delta R.T. -0.02 min

Lab File: VL035750.D

Acq: 8 Oct 2020 18:15

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:164 Resp: 19503

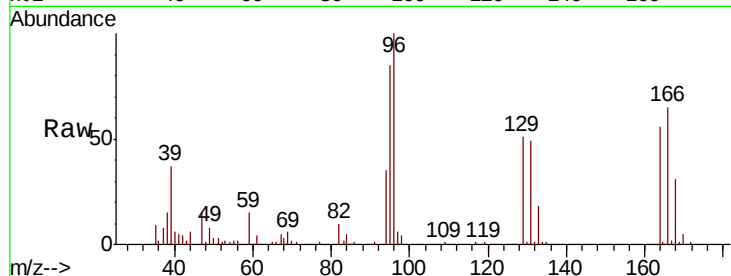
Ion Ratio Lower Upper

164 100

166 116.8 98.7 148.1

129 91.7 78.4 117.6

131 87.2 76.2 114.2

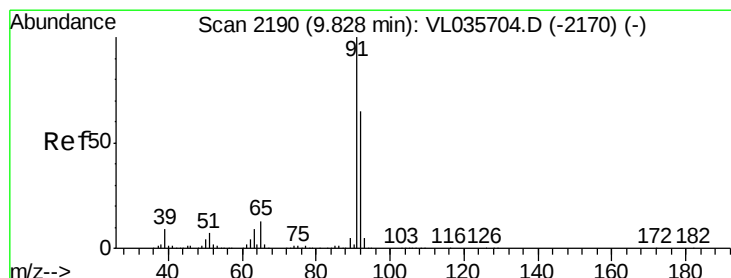
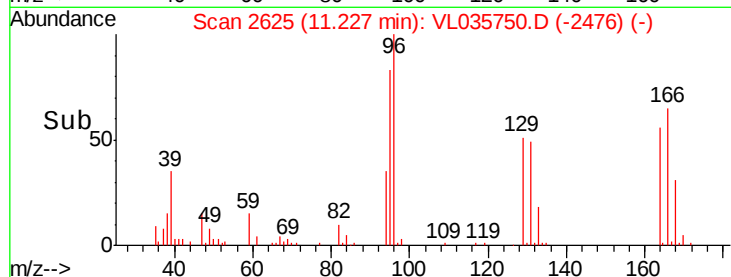
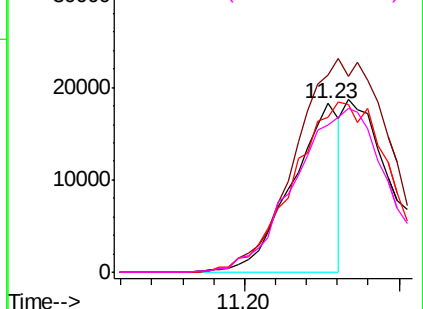


Abundance Ion 163.90 (163.60 to 164.60): V

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: 1.059 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. -0.01 min

Lab File: VL035750.D

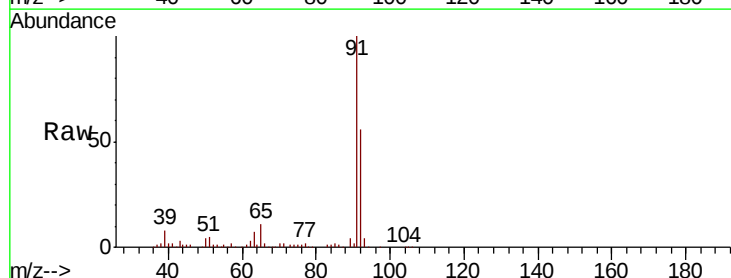
Acq: 8 Oct 2020 18:15

Tgt Ion: 91 Resp: 329598

Ion Ratio Lower Upper

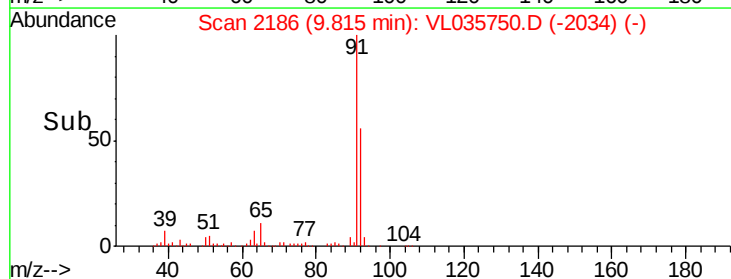
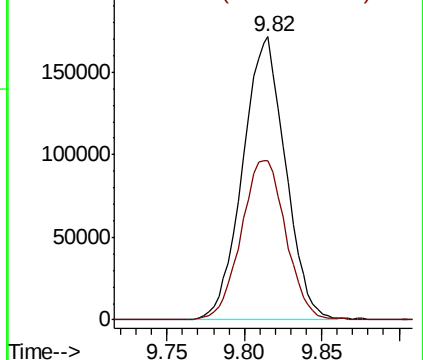
91 100

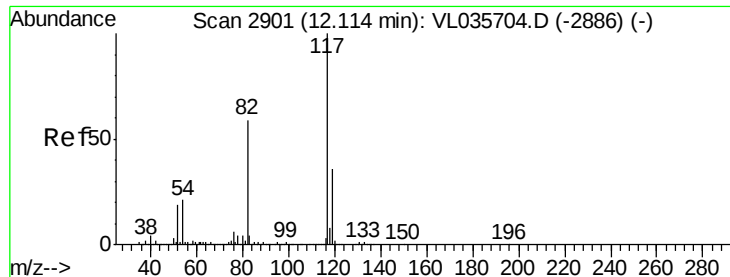
92 59.1 50.0 75.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

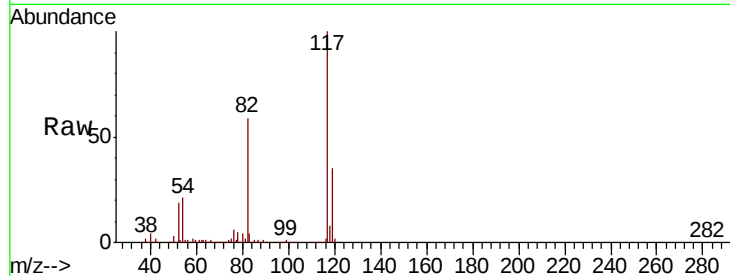




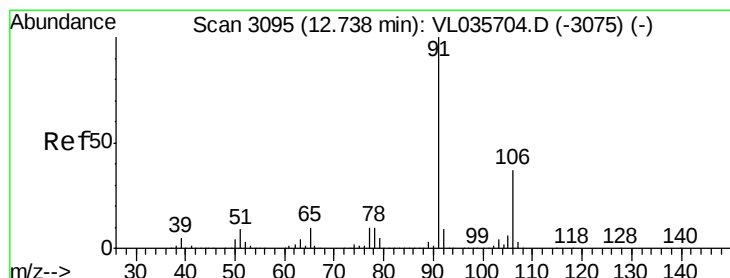
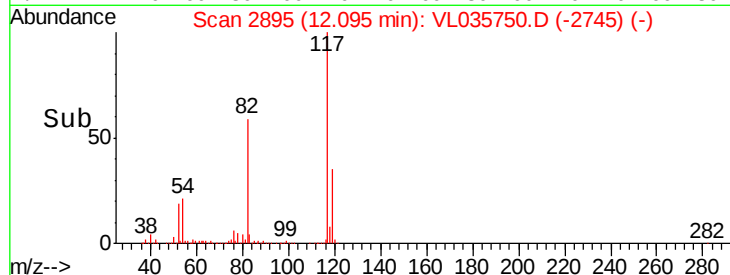
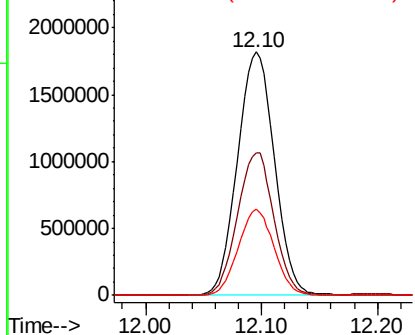
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2895
Delta R.T. -0.02 min
Lab File: VL035750.D
Acq: 8 Oct 2020 18:15

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 4032572
Ion Ratio Lower Upper
117 100
82 57.9 46.1 69.1
119 34.4 28.0 42.0

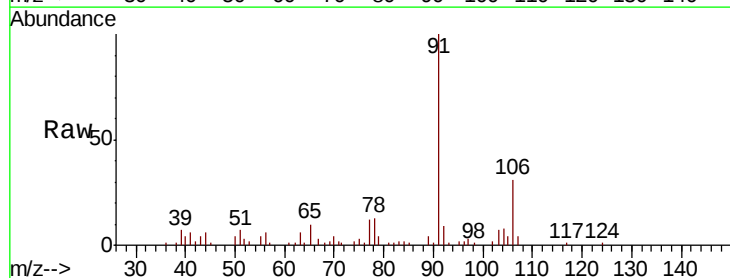


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

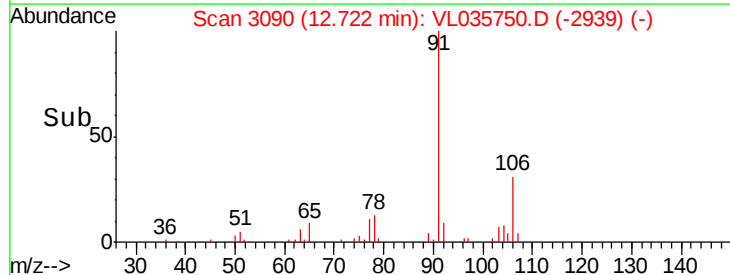
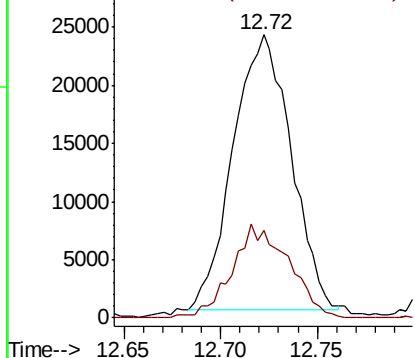


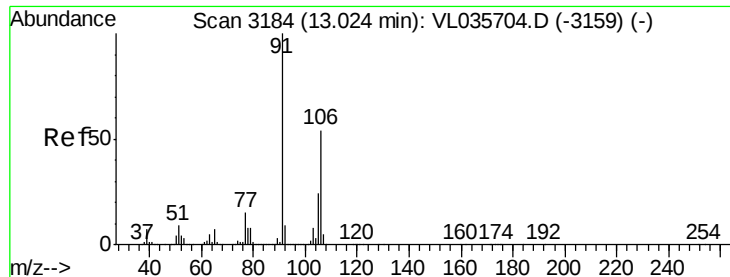
#58
Ethyl Benzene
Concen: 0.122 ppbv
RT: 12.72 min Scan# 3090
Delta R.T. -0.02 min
Lab File: VL035750.D
Acq: 8 Oct 2020 18:15

Tgt Ion: 91 Resp: 49355
Ion Ratio Lower Upper
91 100
106 31.2 29.7 44.5



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 0.616 ppbv

RT: 12.98 min Scan# 3169

Delta R.T. -0.05 min

Lab File: VL035750.D

Acq: 8 Oct 2020 18:15

Instrument :

MSVOA_L

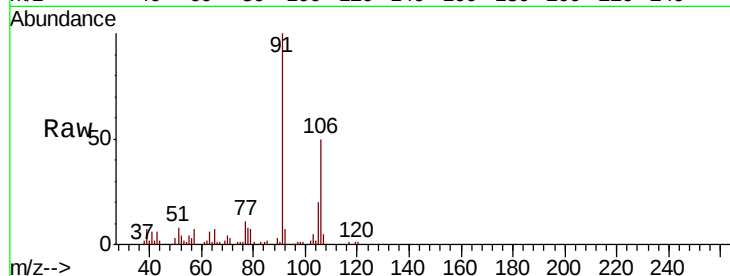
ClientSampled :

Tot Ion: 91 Resp: 217818

Ion Ratio Lower Upper

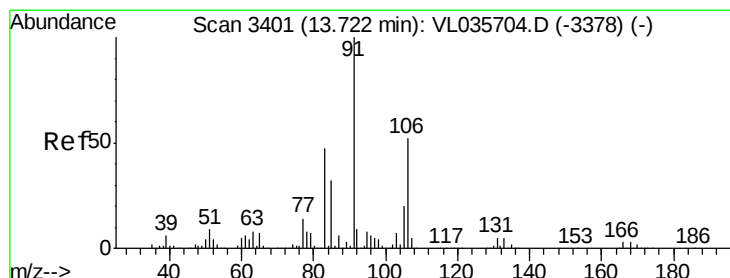
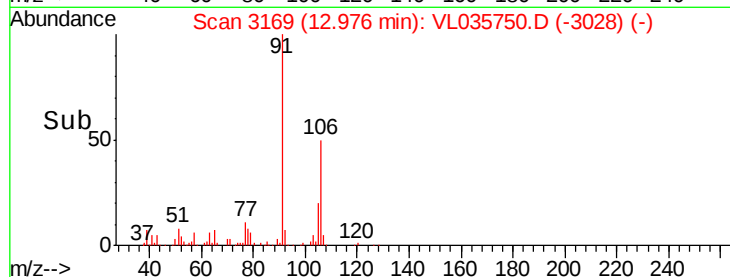
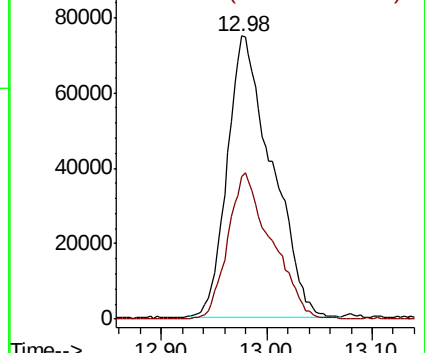
91 100

106 51.2 41.4 62.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.283 ppbv

RT: 13.71 min Scan# 3396

Delta R.T. -0.02 min

Lab File: VL035750.D

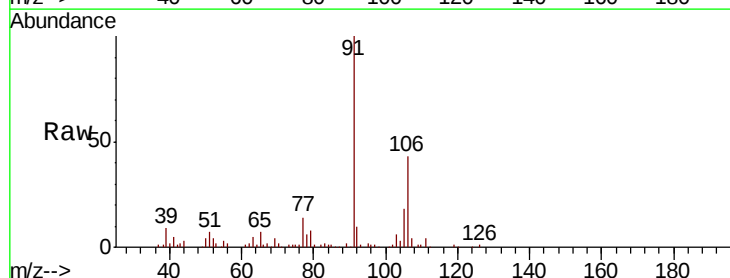
Acq: 8 Oct 2020 18:15

Tgt Ion: 91 Resp: 101030

Ion Ratio Lower Upper

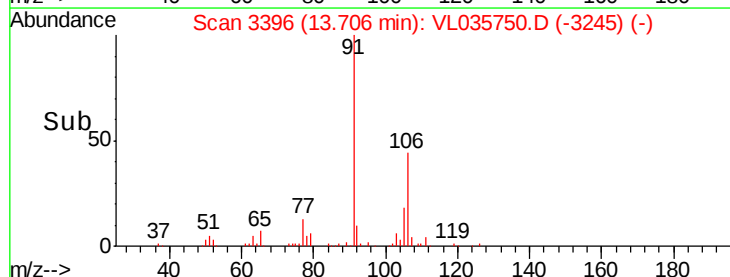
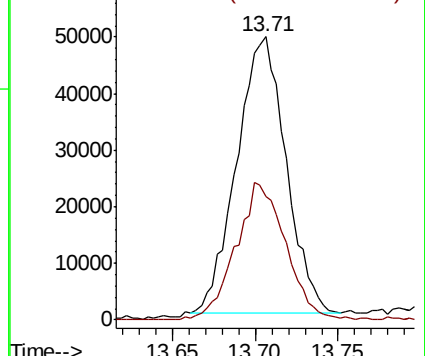
91 100

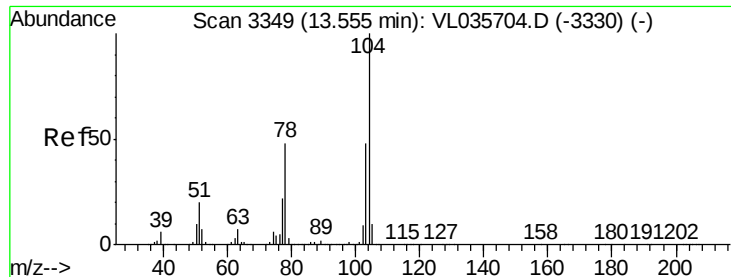
106 49.9 25.0 75.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

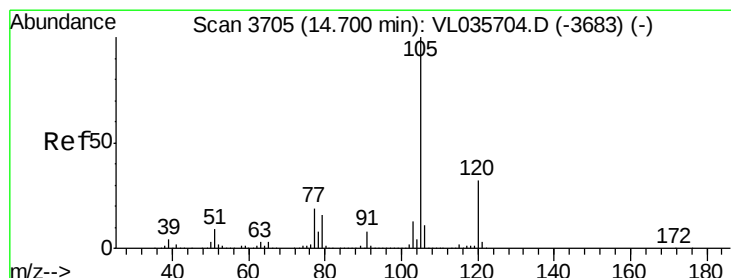
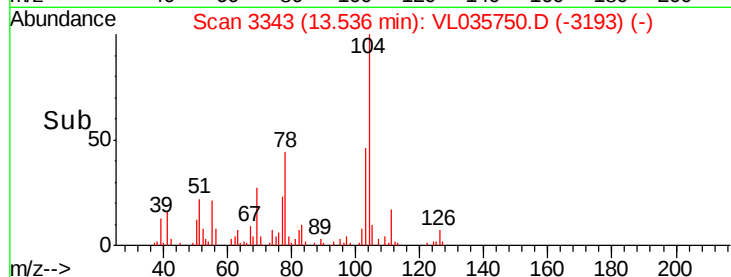
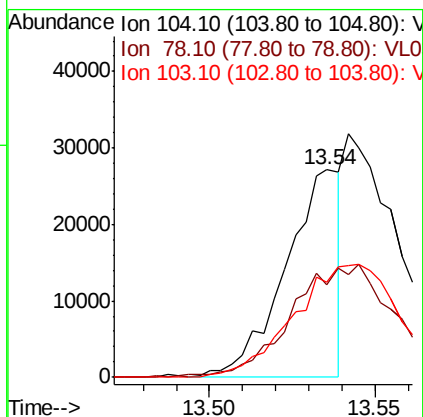
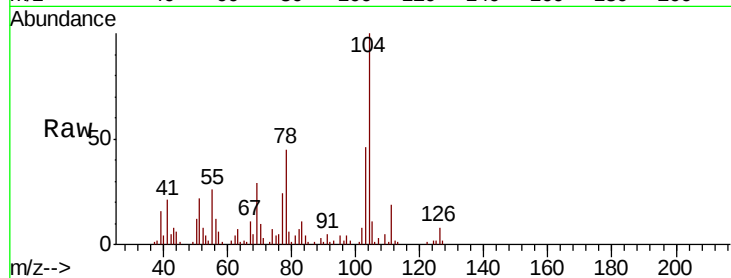




#61
Stvrene
Concen: 0.127 ppbv
RT: 13.54 min Scan# 3343
Delta R.T. -0.02 min
Lab File: VL035750.D
Acq: 8 Oct 2020 18:15

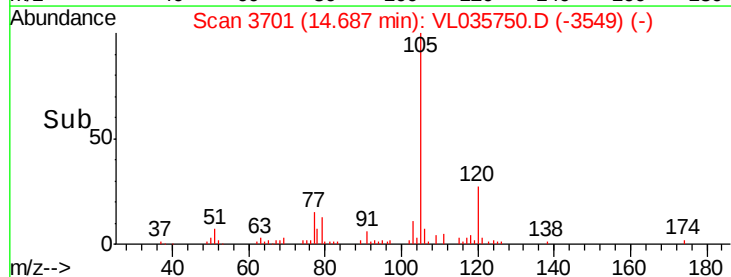
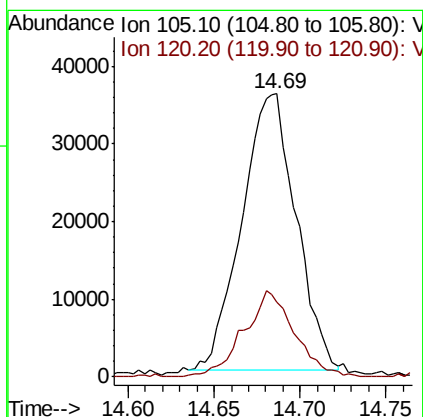
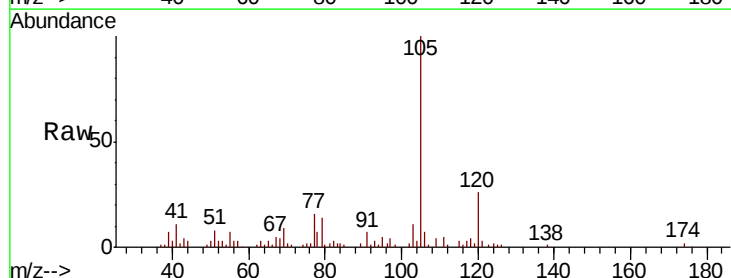
Instrument :
MSVOA_L
ClientSampleId :

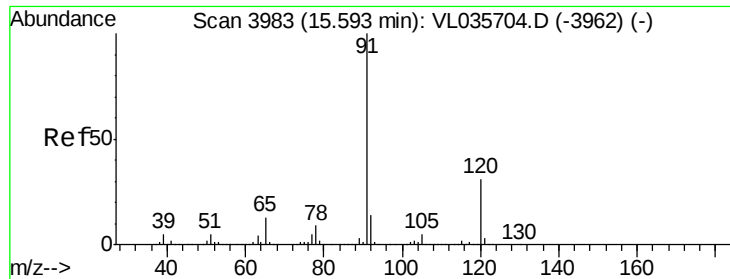
Tot Ion:104 Resp: 31323
Ion Ratio Lower Upper
104 100
78 0.0 37.2 55.8#
103 0.0 38.2 57.2#



#62
Isopropylbenzene
Concen: 0.140 ppbv
RT: 14.69 min Scan# 3701
Delta R.T. -0.01 min
Lab File: VL035750.D
Acq: 8 Oct 2020 18:15

Tgt Ion:105 Resp: 77851
Ion Ratio Lower Upper
105 100
120 29.1 24.1 36.1

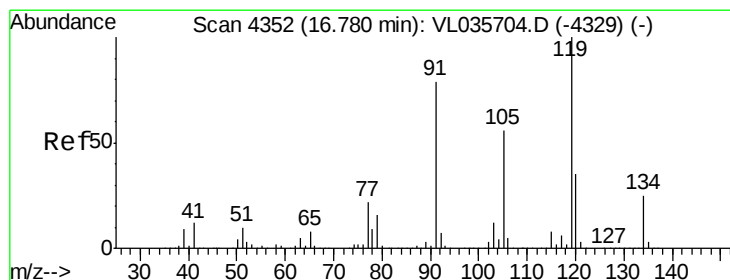
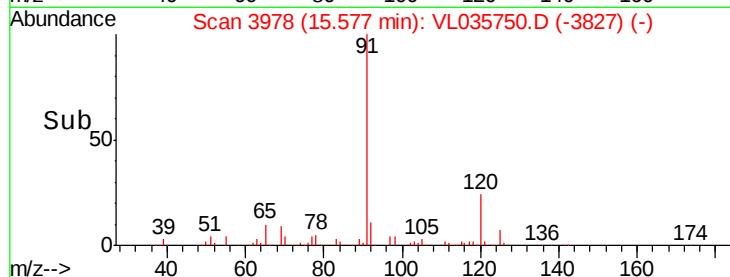
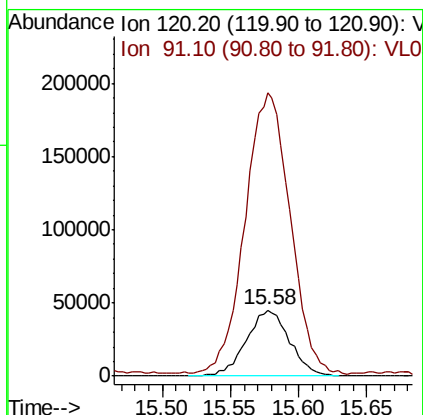
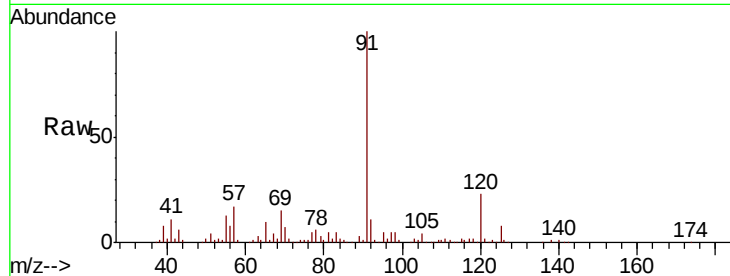




#64
n-propylbenzene
Concen: 0.608 ppbv
RT: 15.58 min Scan# 3978
Delta R.T. -0.02 min
Lab File: VL035750.D
Acq: 8 Oct 2020 18:15

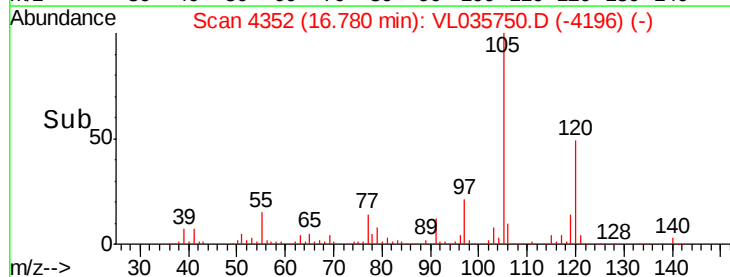
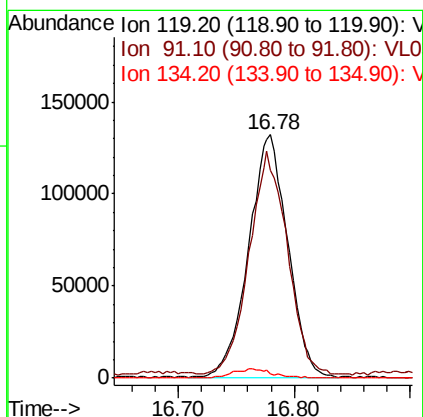
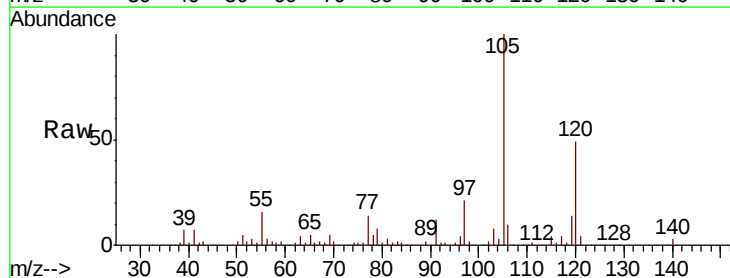
Instrument :
MSVOA_L
ClientSampleId :

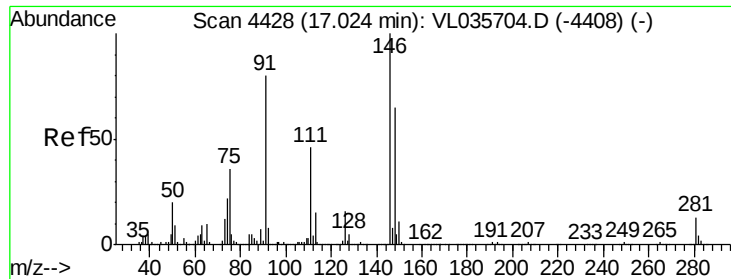
Tot Ion:120 Resp: 98722
Ion Ratio Lower Upper
120 100
91 443.6 300.4 450.6



#65
tert-Butylbenzene
Concen: 0.611 ppbv
RT: 16.78 min Scan# 4352
Delta R.T. 0.00 min
Lab File: VL035750.D
Acq: 8 Oct 2020 18:15

Tgt Ion:119 Resp: 308228
Ion Ratio Lower Upper
119 100
91 89.8 62.4 93.6
134 4.6 18.2 27.2#

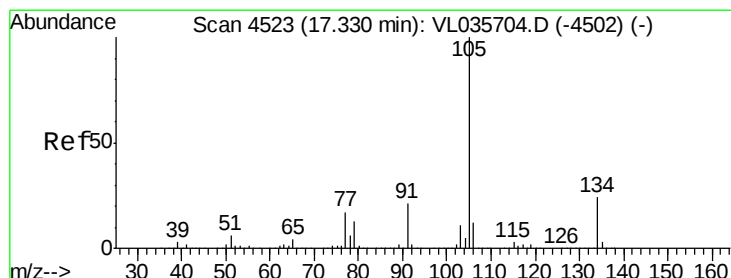
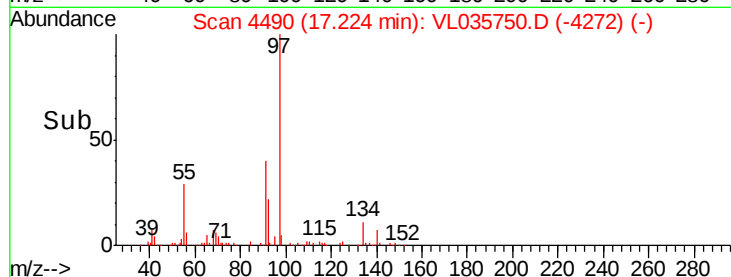
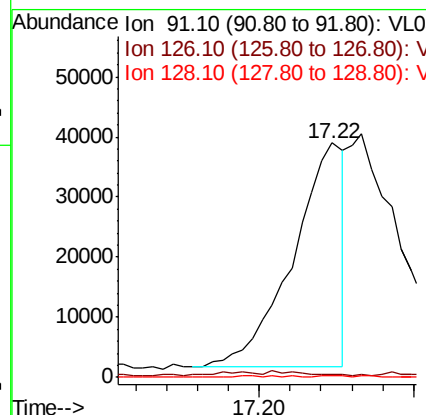
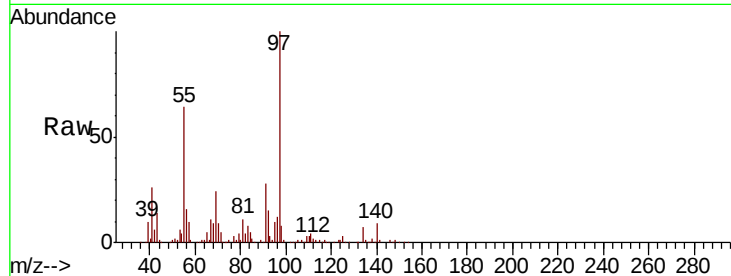




#66
Benzyl Chloride
Concen: 0.279 ppbv
RT: 17.22 min Scan# 4490
Delta R.T. 0.20 min
Lab File: VL035750.D
Acq: 8 Oct 2020 18:15

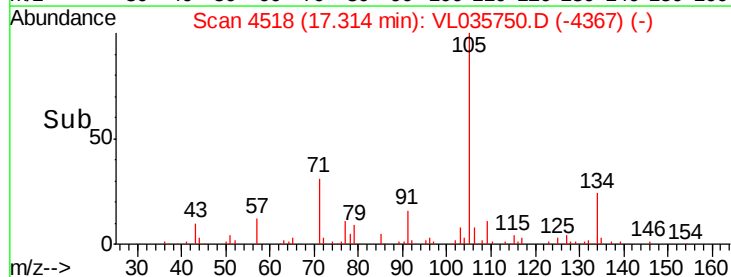
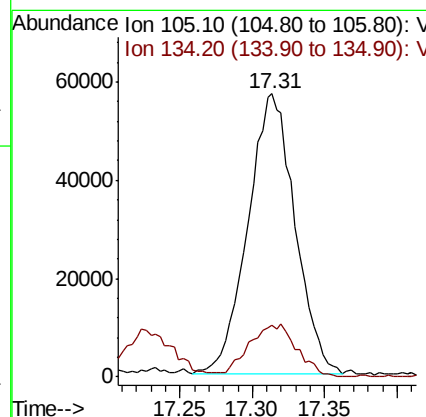
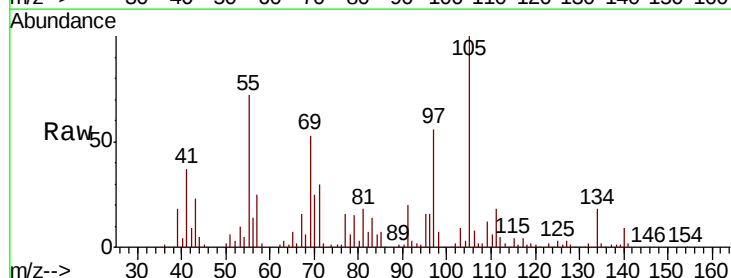
Instrument :
MSVOA_L
ClientSampleId :

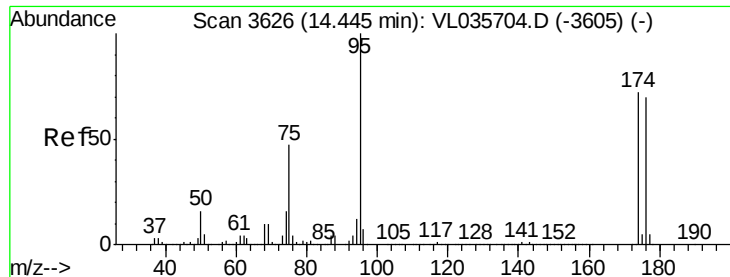
Tot Ion: 91 Resp: 42688
Ion Ratio Lower Upper
91 100
126 5.8 15.3 22.9#
128 1.3 5.0 7.4#



#67
sec-Butylbenzene
Concen: 0.185 ppbv
RT: 17.31 min Scan# 4518
Delta R.T. -0.02 min
Lab File: VL035750.D
Acq: 8 Oct 2020 18:15

Tgt Ion: 105 Resp: 128965
Ion Ratio Lower Upper
105 100
134 19.2 17.6 26.4

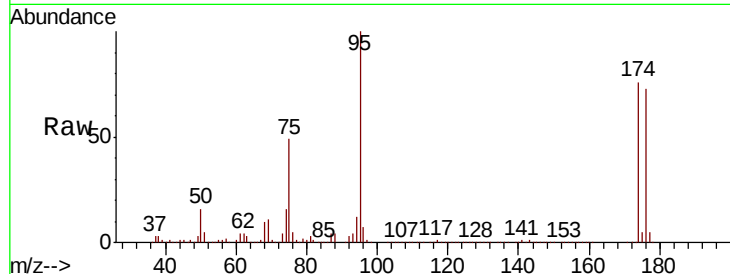




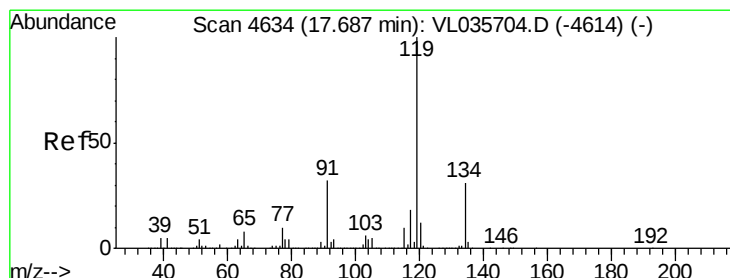
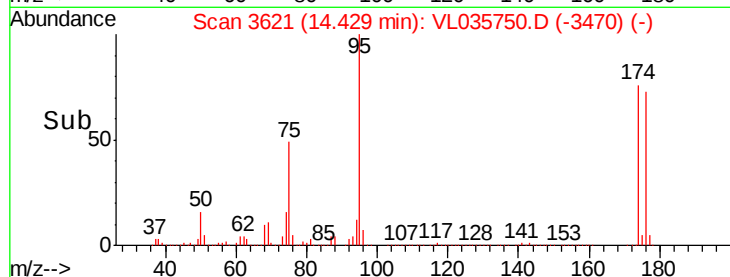
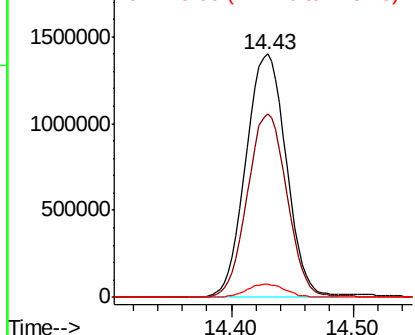
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.598 ppbv
 RT: 14.43 min Scan# 3621
 Delta R.T. -0.02 min
 Lab File: VL035750.D
 Acq: 8 Oct 2020 18:15

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 95 Resp: 3202436
 Ion Ratio Lower Upper
 95 100
 174 74.7 59.6 89.4
 175 5.4 4.2 6.4

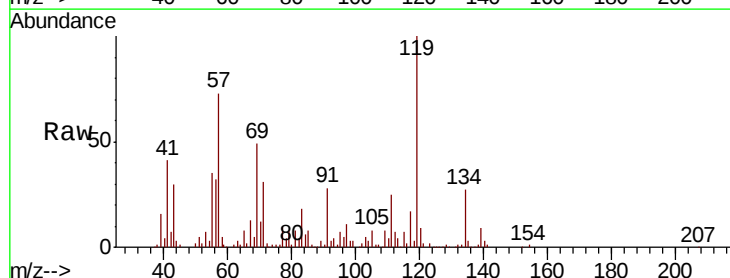


Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V

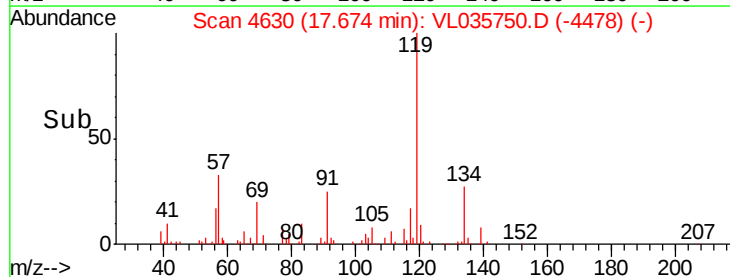
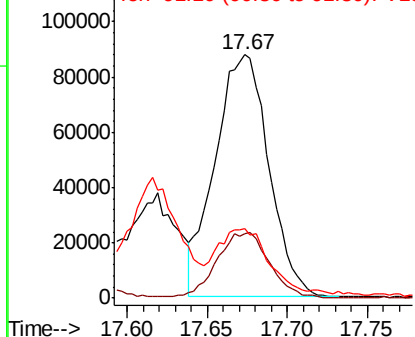


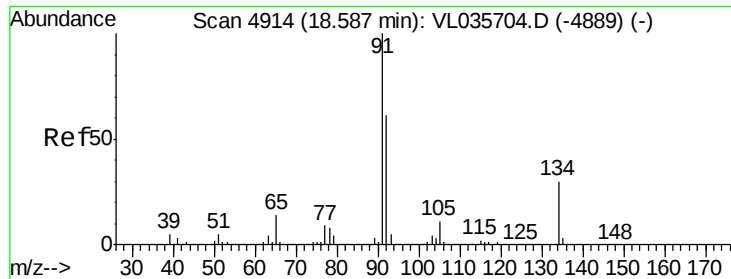
#69
 p-Isopropyltoluene
 Concen: 0.358 ppbv
 RT: 17.67 min Scan# 4630
 Delta R.T. -0.01 min
 Lab File: VL035750.D
 Acq: 8 Oct 2020 18:15

Tgt Ion: 119 Resp: 202618
 Ion Ratio Lower Upper
 119 100
 134 27.0 23.9 35.9
 91 26.7 23.8 35.6



Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): VL0

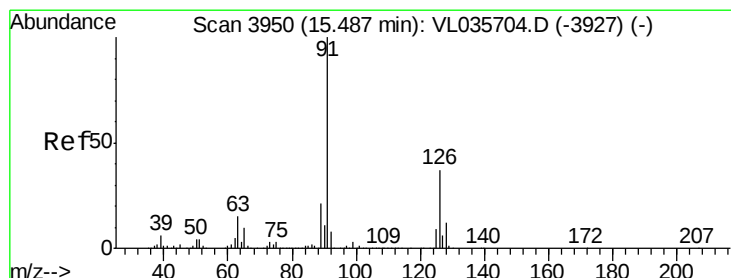
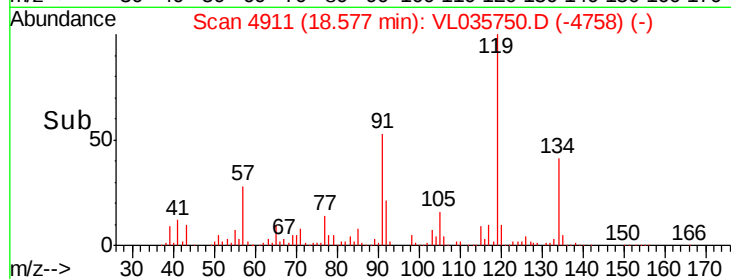
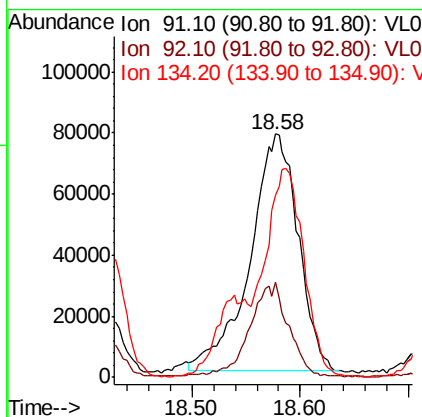
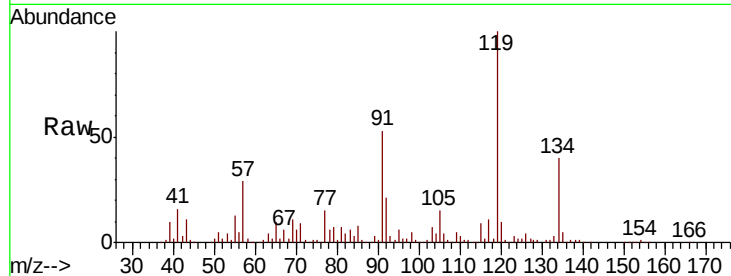




#70
n-Butylbenzene
Concen: 0.410 ppbv
RT: 18.58 min Scan# 4911
Delta R.T. -0.01 min
Lab File: VL035750.D
Acq: 8 Oct 2020 18:15

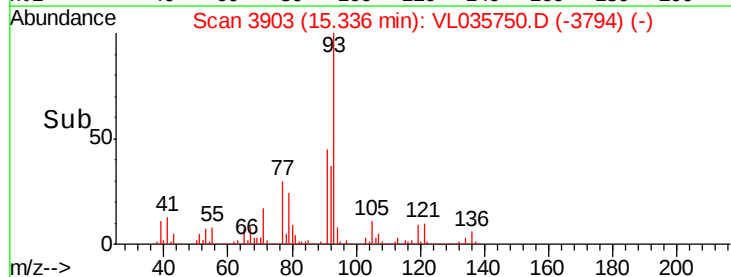
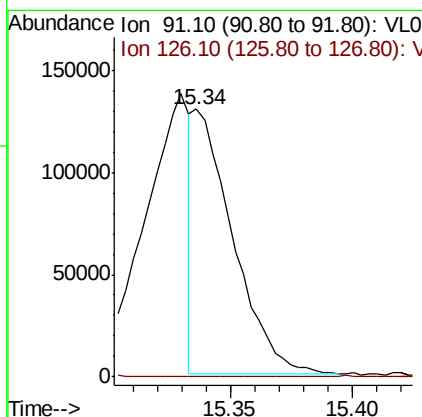
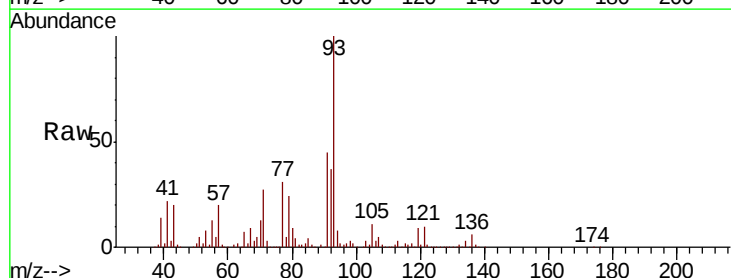
Instrument :
MSVOA_L
ClientSampled :

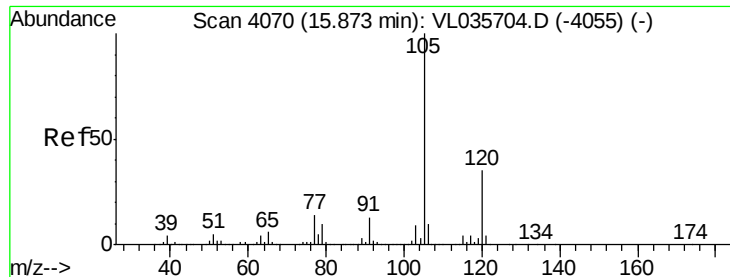
Tot Ion: 91 Resp: 239452
Ion Ratio Lower Upper
91 100
92 32.5 47.0 70.4#
134 94.3 21.9 32.9#



#71
2-Chlorotoluene
Concen: 0.358 ppbv
RT: 15.34 min Scan# 3903
Delta R.T. -0.15 min
Lab File: VL035750.D
Acq: 8 Oct 2020 18:15

Tgt Ion: 91 Resp: 144932
Ion Ratio Lower Upper
91 100
126 1.8 14.4 57.4#





#72

4-Ethyltoluene

Concen: 1.545 ppbv

RT: 15.85 min Scan# 4064

Delta R.T. -0.02 min

Lab File: VL035750.D

Acq: 8 Oct 2020 18:15

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:105 Resp: 654518

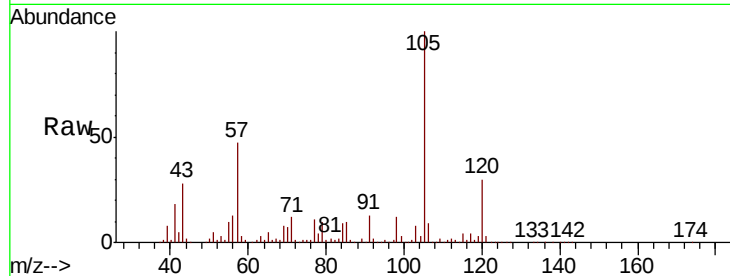
Ion Ratio Lower Upper

105 100

120 30.7 26.5 39.7

91 12.4 10.2 15.2

77 13.0 10.3 15.5

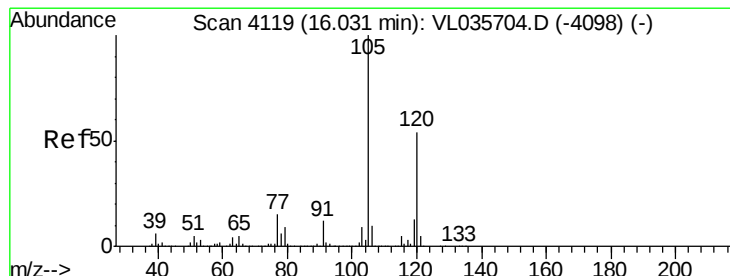
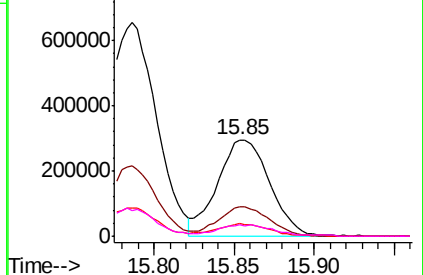
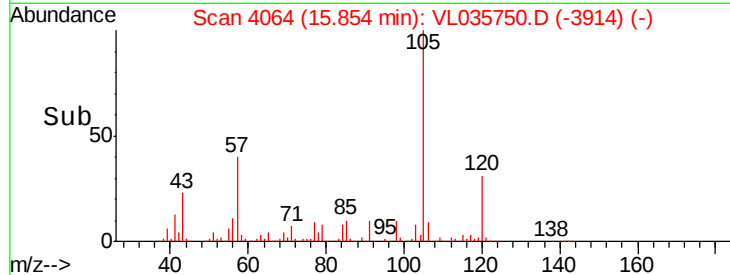


Abundance Ion 105.10 (104.80 to 105.80): V

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



#73

1,3,5-Trimethylbenzene

Concen: 2.609 ppbv

RT: 16.01 min Scan# 4114

Delta R.T. -0.02 min

Lab File: VL035750.D

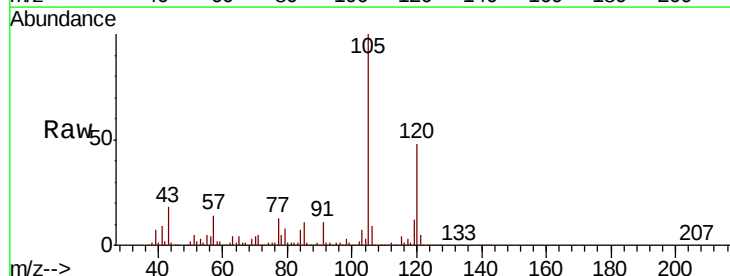
Acq: 8 Oct 2020 18:15

Tgt Ion:105 Resp: 1044233

Ion Ratio Lower Upper

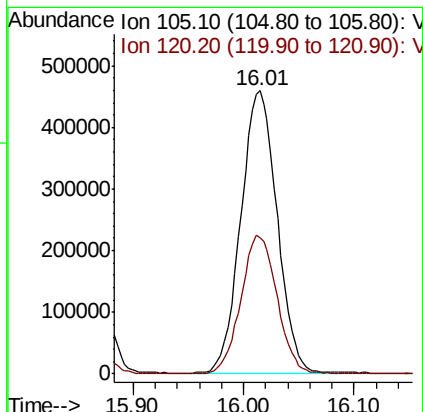
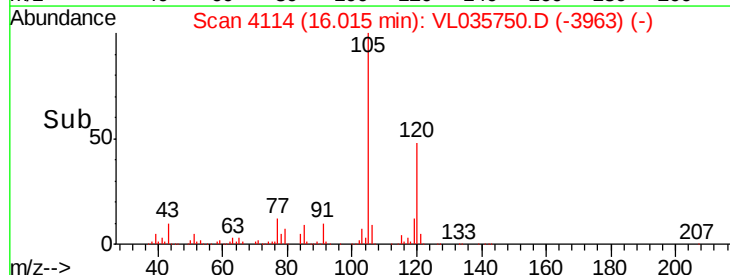
105 100

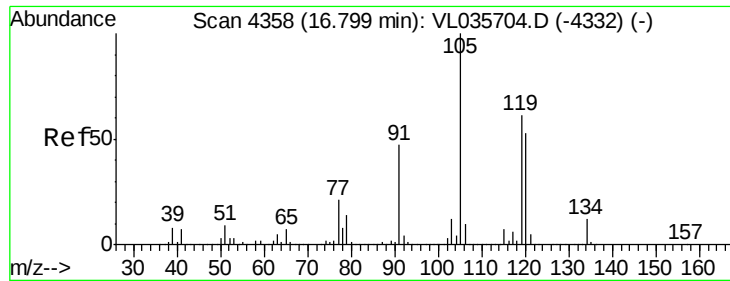
120 48.1 43.0 64.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

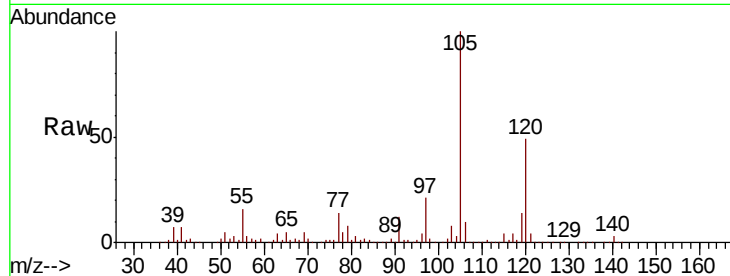




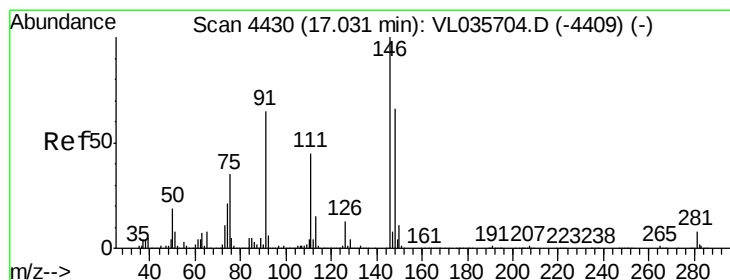
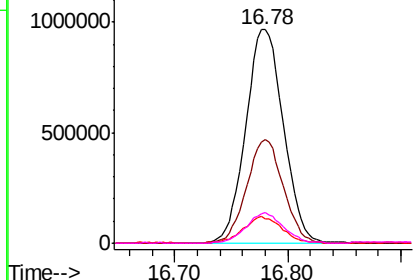
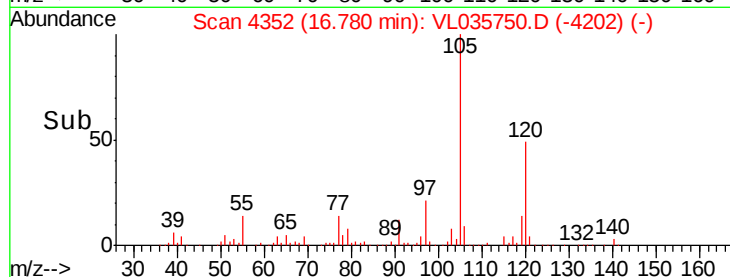
#74
 1,2,4-Trimethylbenzene
 Concen: 4.960 ppbv
 RT: 16.78 min Scan# 4352
 Delta R.T. -0.02 min
 Lab File: VL035750.D
 Acq: 8 Oct 2020 18:15

Instrument :
 MSVOA_L
 ClientSampled :

Tot Ion:105 Resp: 2238118
 Ion Ratio Lower Upper
 105 100
 120 48.5 42.5 63.7
 91 11.4 37.7 56.5#
 77 13.9 16.7 25.1#

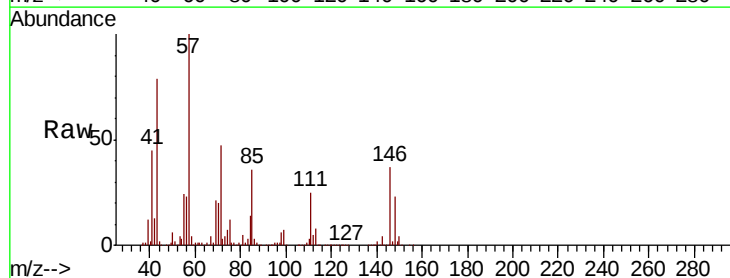


Abundance Ion 105.10 (104.80 to 105.80): V
 Ion 120.20 (119.90 to 120.90): V
 Ion 91.10 (90.80 to 91.80): VL0
 Ion 77.10 (76.80 to 77.80): VL0

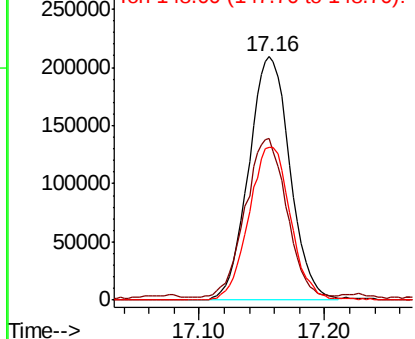
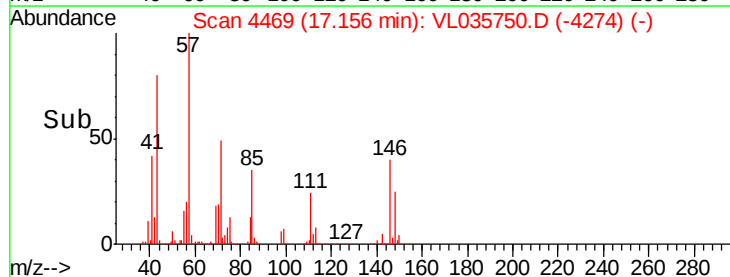


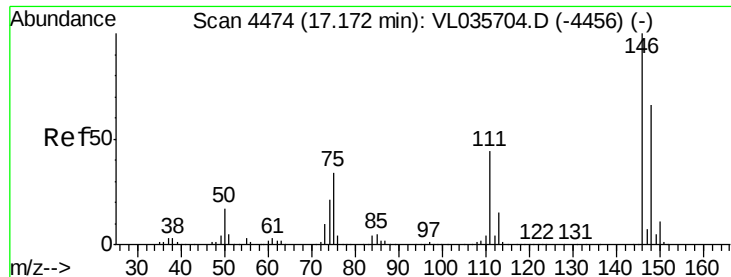
#75
 1,3-Dichlorobenzene
 Concen: 1.555 ppbv
 RT: 17.16 min Scan# 4469
 Delta R.T. 0.13 min
 Lab File: VL035750.D
 Acq: 8 Oct 2020 18:15

Tgt Ion:146 Resp: 479104
 Ion Ratio Lower Upper
 146 100
 111 66.1 22.4 67.0
 148 63.8 33.0 99.0



Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V





#76

1,4-Dichlorobenzene

Concen: 1.627 ppbv

RT: 17.16 min Scan# 4469

Delta R.T. -0.02 min

Lab File: VL035750.D

Acq: 8 Oct 2020 18:15

Instrument :

MSVOA_L

ClientSampleId :

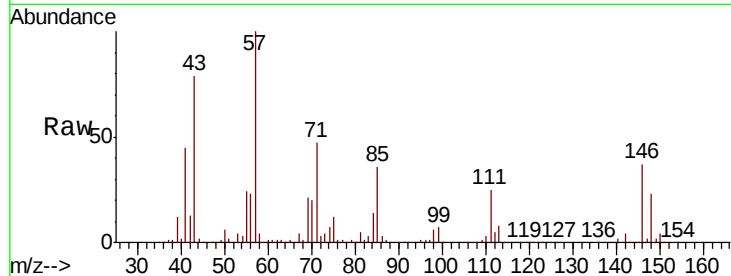
Tot Ion:146 Resp: 479104

Ion Ratio Lower Upper

146 100

111 65.9 21.4 64.3#

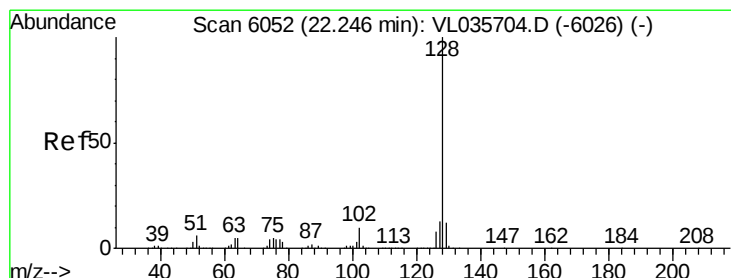
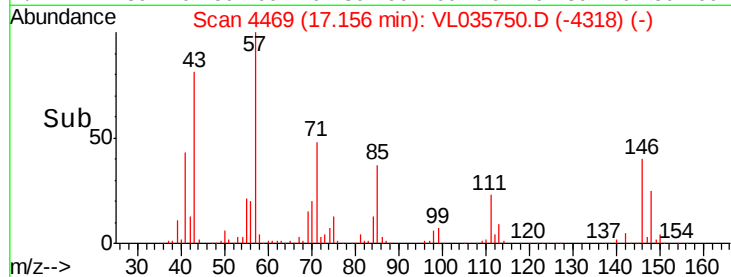
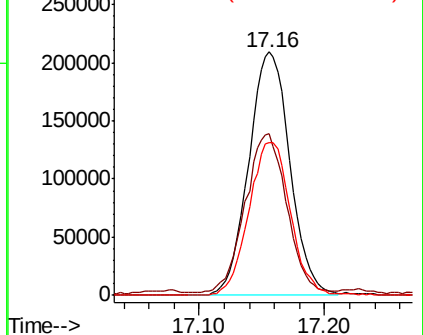
148 63.7 32.6 98.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#79

Naphthalene

Concen: 1.134 ppbv

RT: 22.23 min Scan# 6047

Delta R.T. -0.02 min

Lab File: VL035750.D

Acq: 8 Oct 2020 18:15

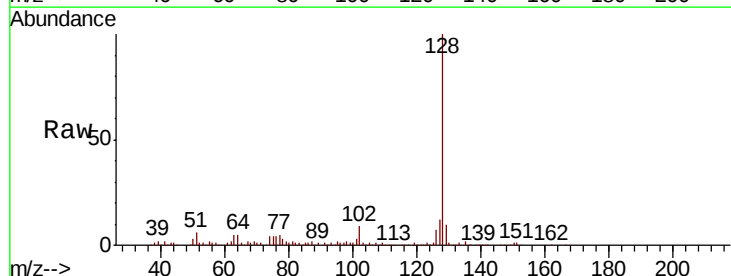
Tgt Ion:128 Resp: 488069

Ion Ratio Lower Upper

128 100

127 12.3 10.6 15.8

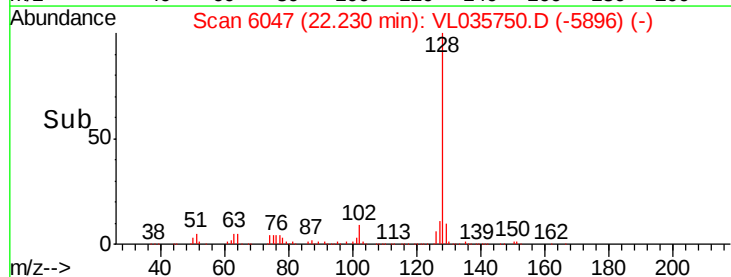
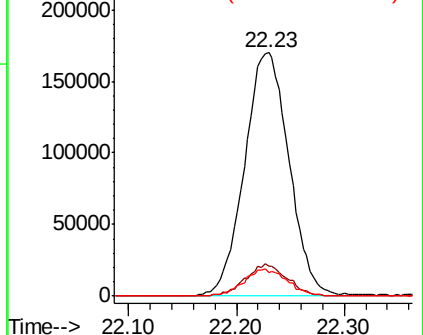
129 9.8 9.4 14.0

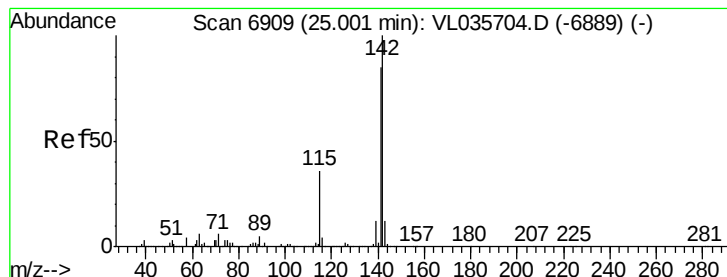


Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V

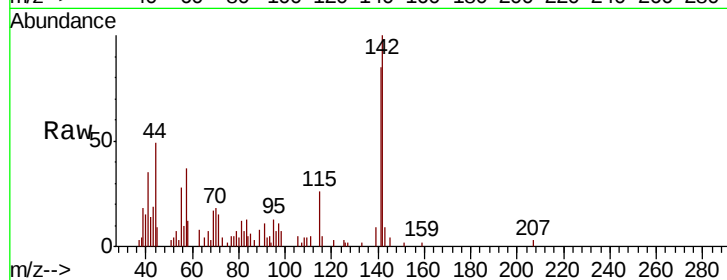




#80
 Naphthalene, 2-methyl-
 Concen: 0.145 ppbv
 RT: 24.99 min Scan# 6907
 Delta R.T. -0.01 min
 Lab File: VL035750.D
 Acq: 8 Oct 2020 18:15

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
142	100		
141	85.8	68.2	102.4
115	41.0	27.8	41.6



Abundance

Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

