

Data File : VL034537.D
Acq On : 31 Dec 2019 7:44
Operator : SY/AP
Sample : K6470-05
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
44-1

Quant Time: Dec 31 11:15:58 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL123019AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 30 14:58:50 2019
QLast Update : Mon Dec 30 14:58:50 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	941643	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	1906750	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	1882618	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.47 95 1593679 10.14 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 101.40%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.02	85	89066	0.600	ppbv	98
3) Chlorodifluoromethane	2.96	51	448743	4.000	ppbv	96
4) Chloromethane	3.11	50	19631	0.295	ppbv	97
9) Propene	3.18	41	450655	10.419	ppbv	94
10) Heptane	8.14	43	15712	0.141	ppbv #	74
11) Trichlorofluoromethane	3.93	101	23080	0.134	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.47	101	5442	0.050	ppbv #	53
13) Ethanol	3.59	45	814599	67.873	ppbv	99
15) Acetone	3.83	43	1577910	11.482	ppbv	98
16) 1,3-Butadiene	3.28	39	18544	0.351	ppbv	82
17) tert-Butyl alcohol	4.29	59	9953	0.090	ppbv #	72
19) Isopropyl Alcohol	3.96	45	539858	6.068	ppbv #	98
20) Methylene Chloride	4.34	84	16784	0.310	ppbv #	79
23) Vinyl Acetate	5.07	43	8909	0.056	ppbv #	89
25) Ethyl Acetate	5.68	43	72579	0.338	ppbv	99
26) Hexane	5.69	57	32450	0.359	ppbv	93
27) Carbon Disulfide	4.55	76	19883	0.174	ppbv #	60
30) Cyclohexane	7.15	84	1813	0.027	ppbv #	1
34) 2-Butanone	5.25	43	385984	2.833	ppbv	99
35) Carbon Tetrachloride	7.04	117	4801	0.028	ppbv #	69
36) Benzene	6.91	78	44382	0.267	ppbv	94
39) 1,2-Dichloropropane	7.20	63	556627	8.144	ppbv #	21
41) Tetrahydrofuran	6.07	42	40319	0.577	ppbv	99
44) 2,2,4-Trimethylpentane	7.89	57	65276	0.212	ppbv #	79
50) 4-Methyl-2-Pentanone	8.78	43	131459	0.665	ppbv	93
52) Tetrachloroethene	11.27	164	5230	0.081	ppbv #	86
53) Toluene	9.84	91	296996	1.626	ppbv	95
58) Ethyl Benzene	12.76	91	114220	0.450	ppbv	97
59) m/p-Xylene	13.01	91	402787	1.814	ppbv	98
60) o-Xylene	13.74	91	70173	0.315	ppbv	94
62) Isopropylbenzene	14.72	105	7379	0.025	ppbv #	30
64) n-propylbenzene	15.62	120	3129	0.042	ppbv #	1
65) tert-Butylbenzene	16.82	119	20981	0.080	ppbv #	15
70) n-Butylbenzene	18.61	91	15704	0.049	ppbv #	33
72) 4-Ethyltoluene	15.89	105	60318	0.242	ppbv #	56
73) 1,3,5-Trimethylbenzene	16.05	105	105924	0.433	ppbv	95
74) 1,2,4-Trimethylbenzene	16.82	105	344364	1.316	ppbv #	68
79) Naphthalene	22.28	128	11571	0.059	ppbv #	86
80) Naphthalene,2-methyl-	25.04	142	7922	0.145	ppbv #	74

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL123019\
Quantitation Report (Not Reviewed)

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QLast Update : Mon Dec 30 14:58:50 2019
Response via : Initial Calibration

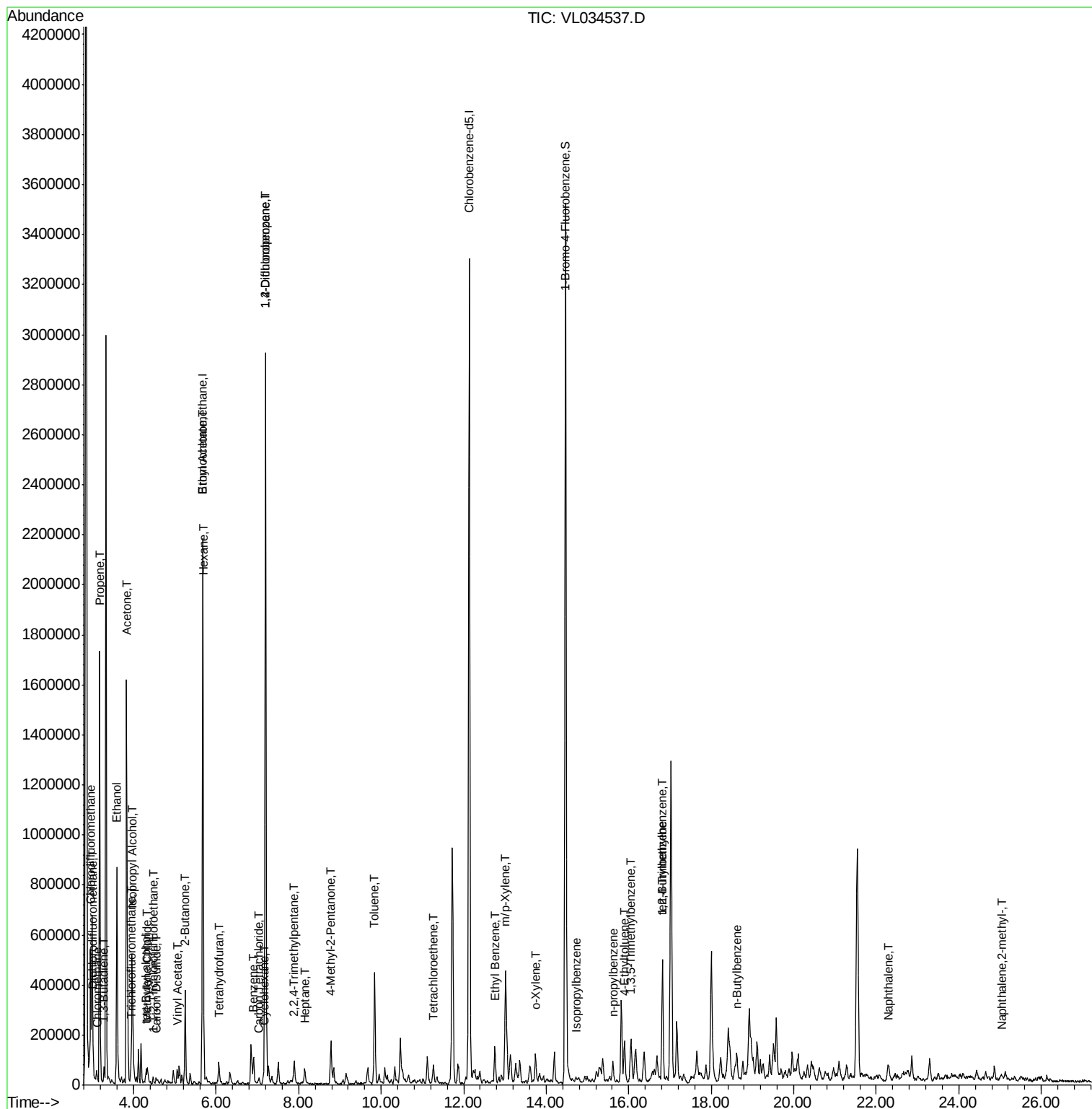
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

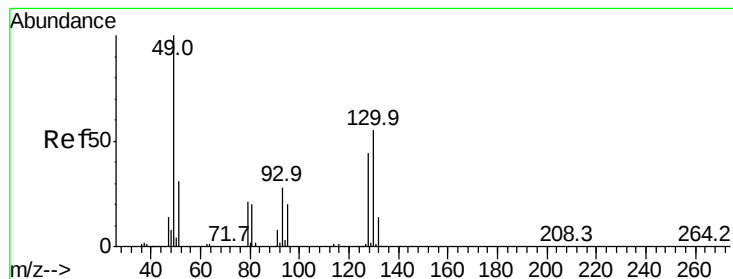
(#) = qualifier out of range (m) = manual integration (+) = signals summed						

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.00 min

Lab File: VL034537.D

Acq: 31 Dec 2019 7:44

Instrument :

MSVOA_L

ClientSampleId :

44-1

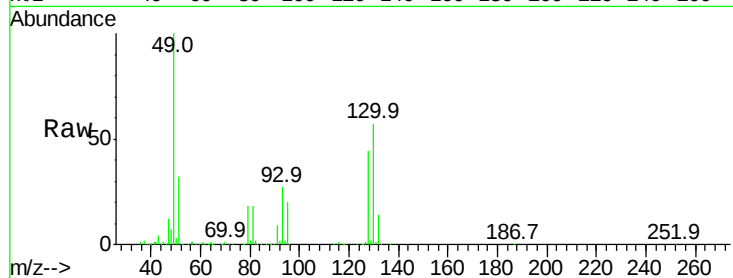
Tgt Ion: 49 Resp: 941643

Ion Ratio Lower Upper

49 100

128 44.3 22.4 67.2

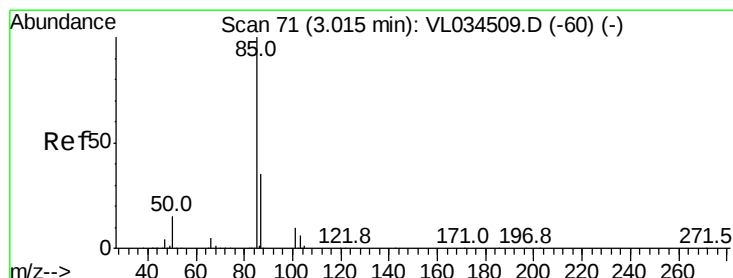
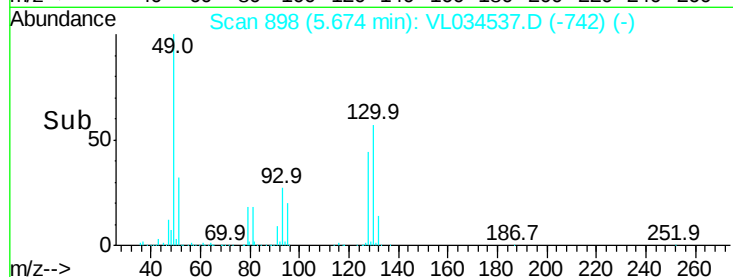
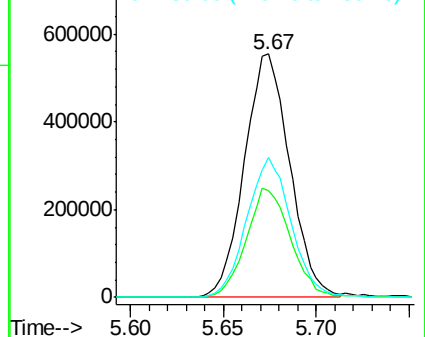
130 56.5 28.3 85.0



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: 0.600 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.00 min

Lab File: VL034537.D

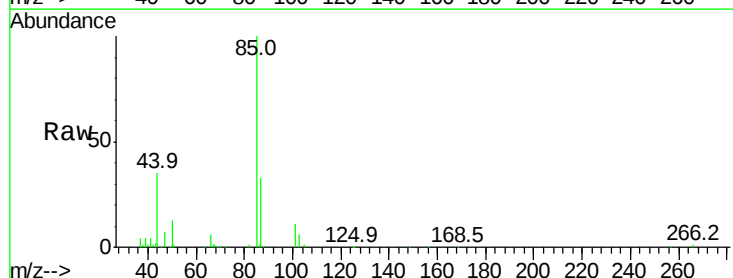
Acq: 31 Dec 2019 7:44

Tgt Ion: 85 Resp: 89066

Ion Ratio Lower Upper

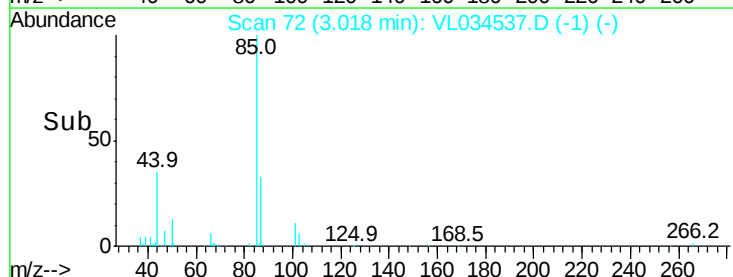
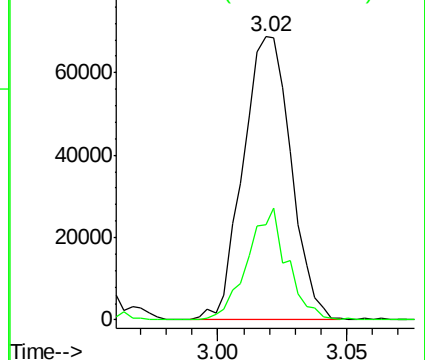
85 100

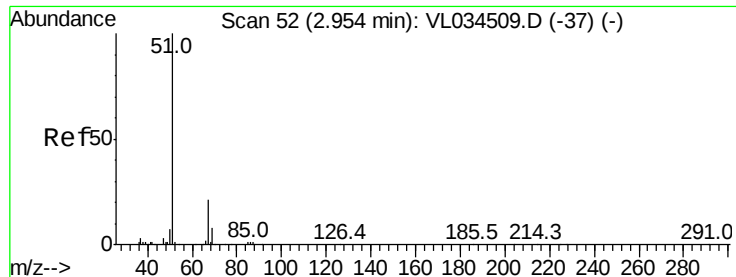
87 33.5 27.9 41.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 4.000 ppbv

RT: 2.96 min Scan# 53

Delta R.T. 0.00 min

Lab File: VL034537.D

Acq: 31 Dec 2019 7:44

Instrument :

MSVOA_L

ClientSampleId :

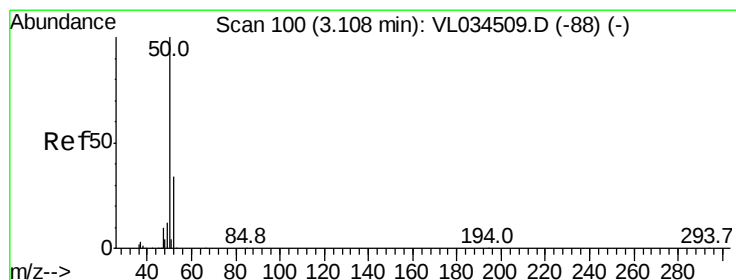
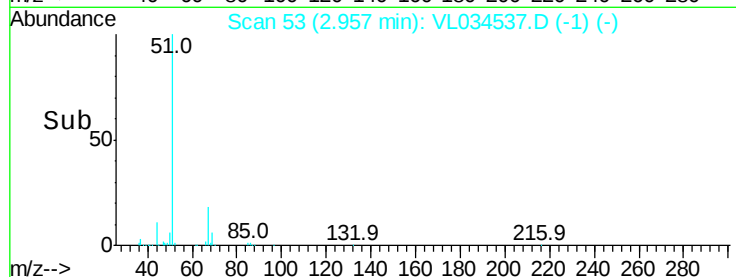
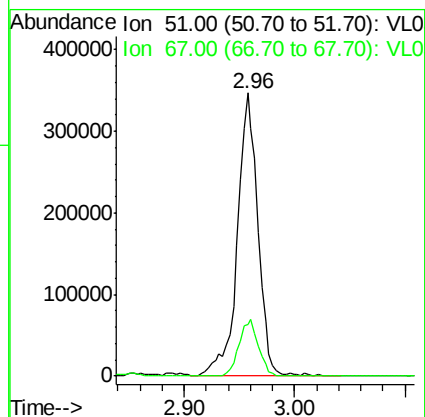
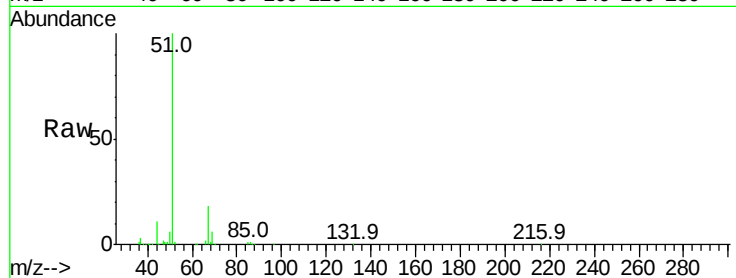
44-1

Tgt Ion: 51 Resp: 448743

Ion Ratio Lower Upper

51 100

67 19.1 16.8 25.2



#4

Chloromethane

Concen: 0.295 ppbv

RT: 3.11 min Scan# 102

Delta R.T. 0.01 min

Lab File: VL034537.D

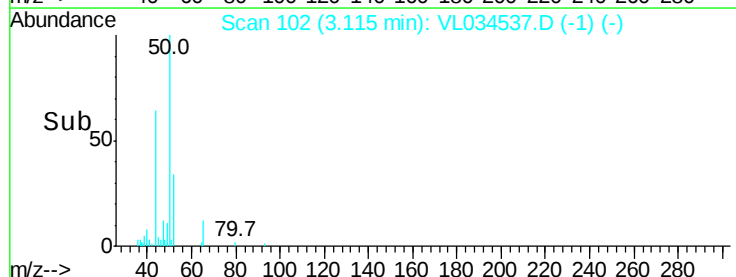
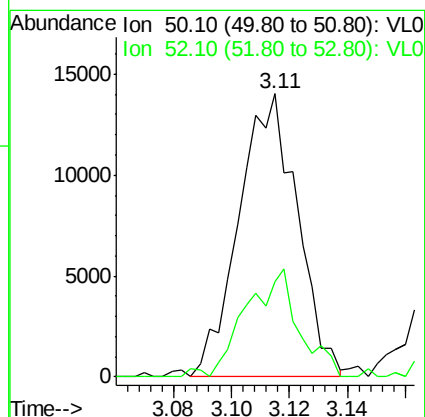
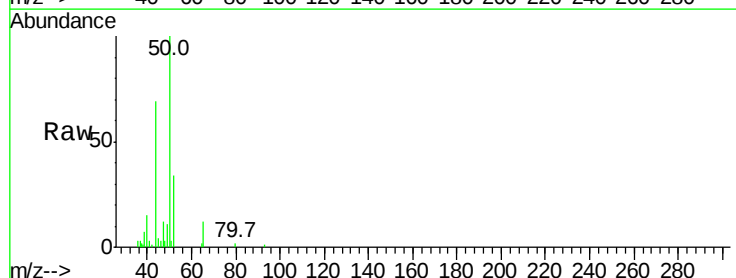
Acq: 31 Dec 2019 7:44

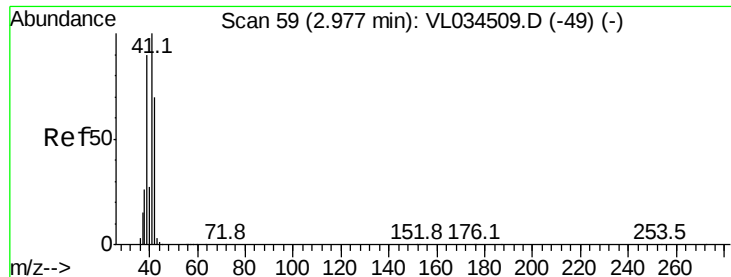
Tgt Ion: 50 Resp: 19631

Ion Ratio Lower Upper

50 100

52 32.7 27.6 41.4





#9

Propene

Concen: 10.419 ppbv

RT: 3.18 min Scan# 121

Delta R.T. 0.20 min

Lab File: VL034537.D

Acq: 31 Dec 2019 7:44

Instrument :

MSVOA_L

ClientSampleId :

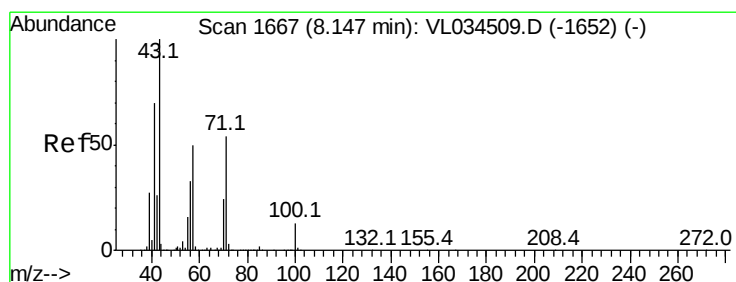
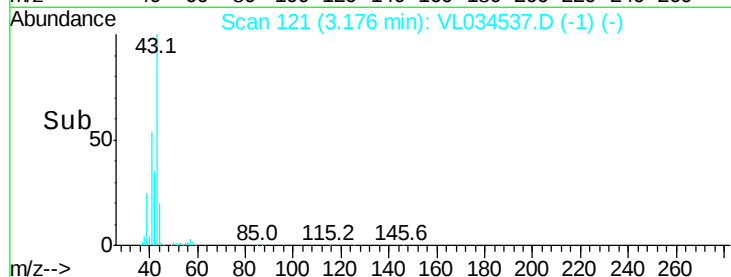
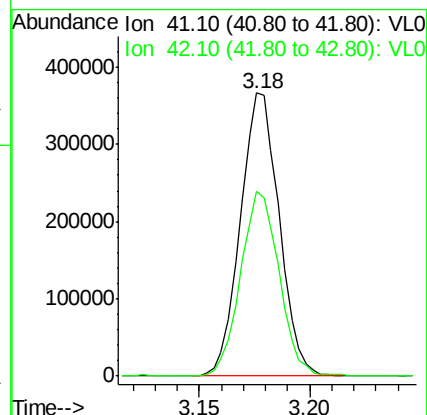
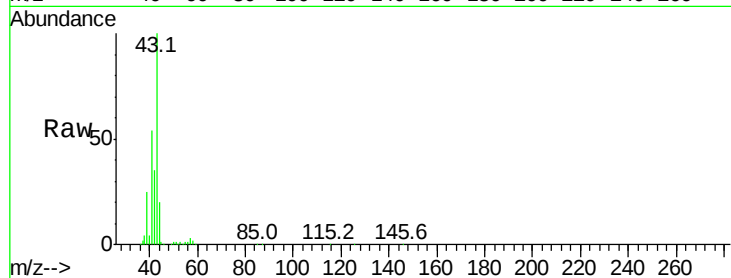
44-1

Tgt Ion: 41 Resp: 450655

Ion Ratio Lower Upper

41 100

42 64.9 55.8 83.6



#10

Heptane

Concen: 0.141 ppbv

RT: 8.14 min Scan# 1666

Delta R.T. -0.00 min

Lab File: VL034537.D

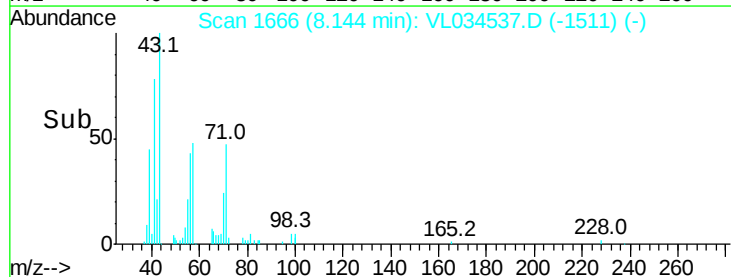
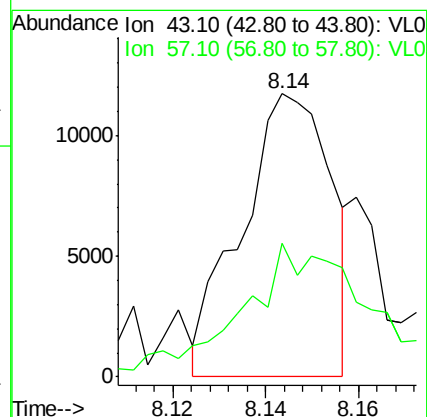
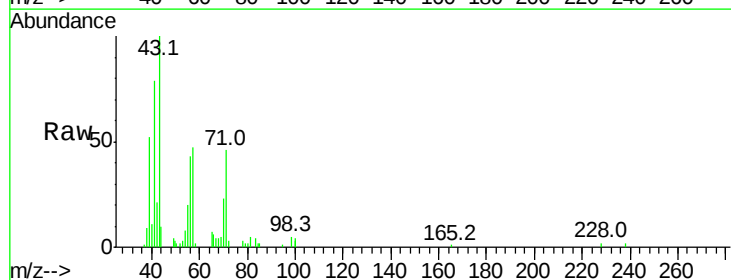
Acq: 31 Dec 2019 7:44

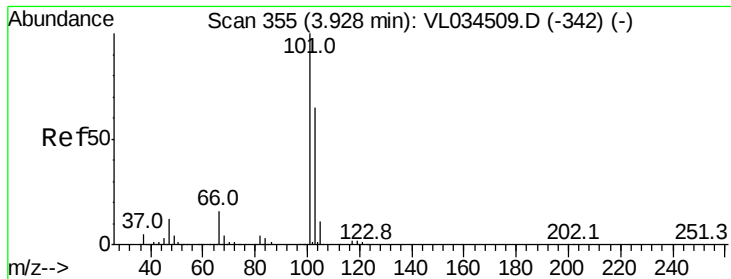
Tgt Ion: 43 Resp: 15712

Ion Ratio Lower Upper

43 100

57 69.5 41.0 61.6#





#11

Trichlorofluoromethane

Concen: 0.134 ppbv

RT: 3.93 min Scan# 356

Delta R.T. 0.00 min

Lab File: VL034537.D

Acq: 31 Dec 2019 7:44

Instrument :

MSVOA_L

ClientSampleId :

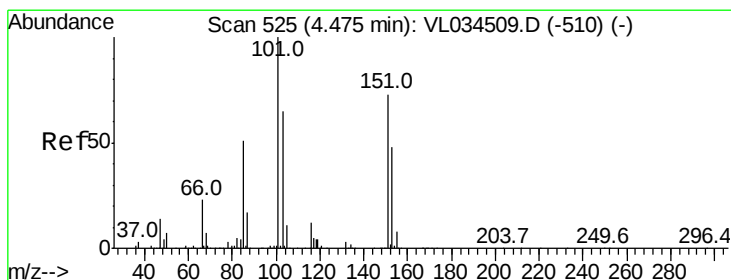
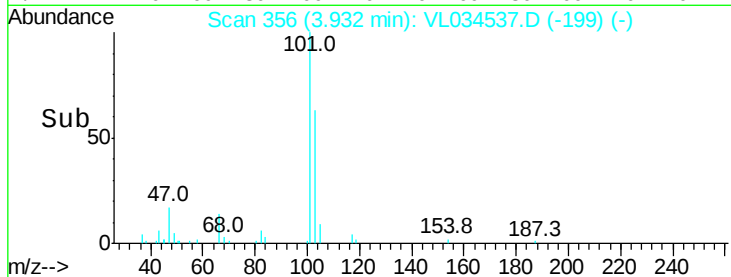
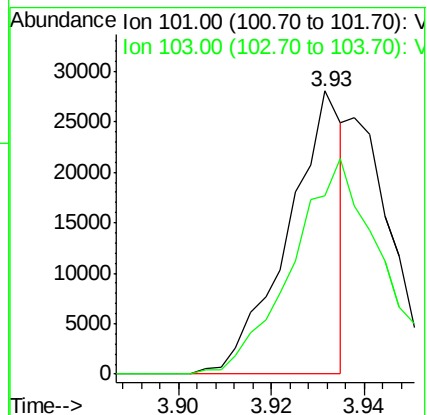
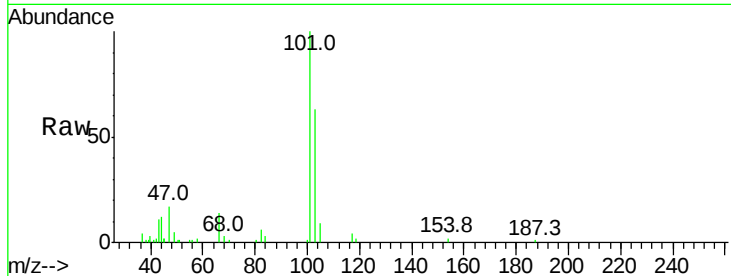
44-1

Tgt Ion:101 Resp: 23080

Ion Ratio Lower Upper

101 100

103 63.0 52.1 78.1



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.050 ppbv

RT: 4.47 min Scan# 525

Delta R.T. 0.00 min

Lab File: VL034537.D

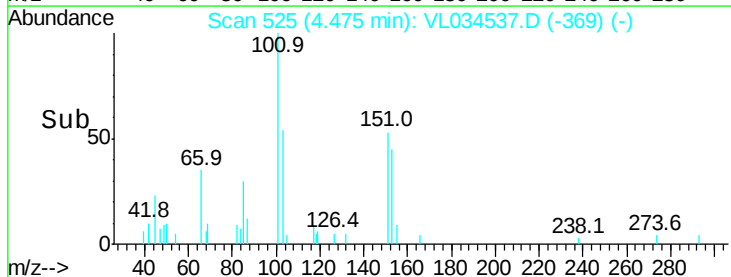
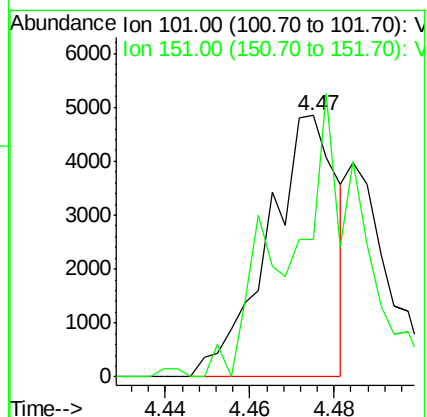
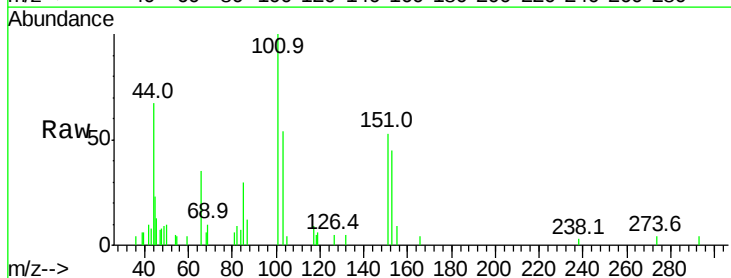
Acq: 31 Dec 2019 7:44

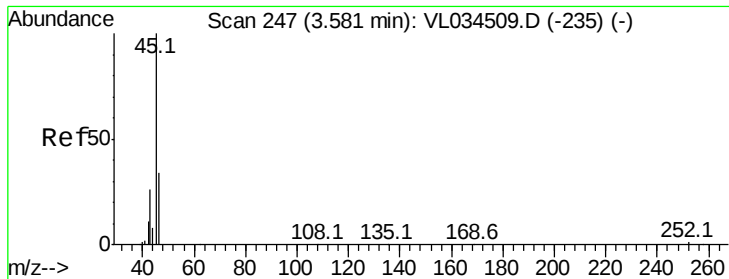
Tgt Ion:101 Resp: 5442

Ion Ratio Lower Upper

101 100

151 111.4 57.8 86.6#

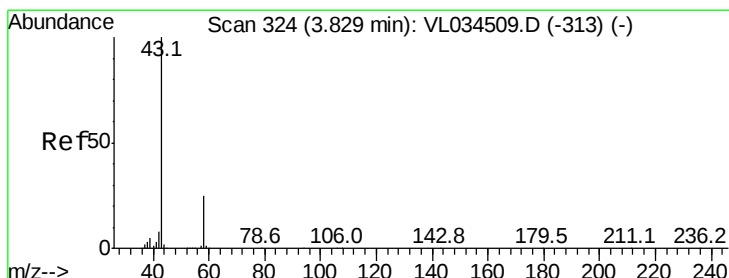
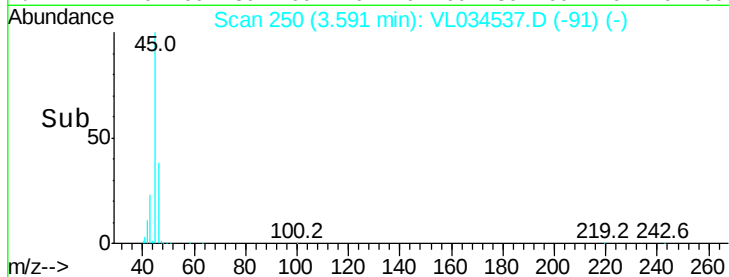
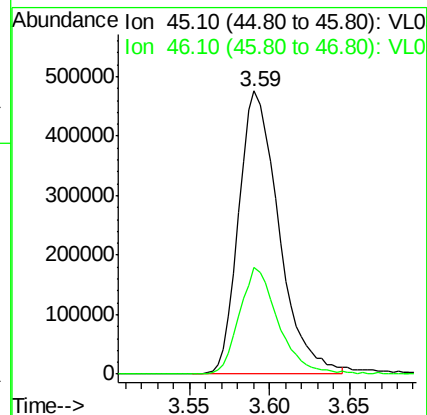
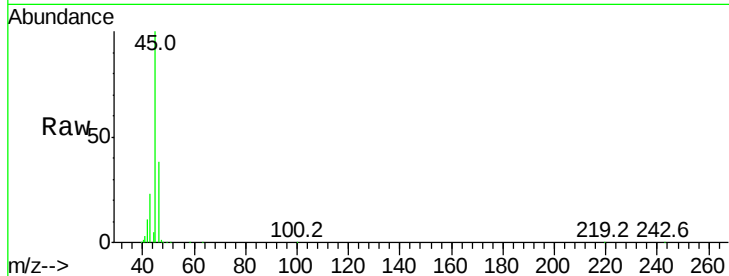




#13
Ethanol
Concen: 67.873 ppbv
RT: 3.59 min Scan# 250
Delta R.T. 0.01 min
Lab File: VL034537.D
Acq: 31 Dec 2019 7:44

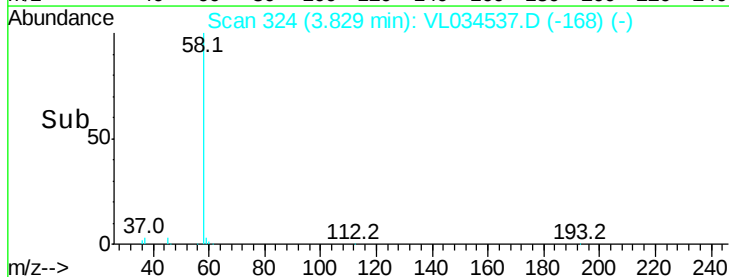
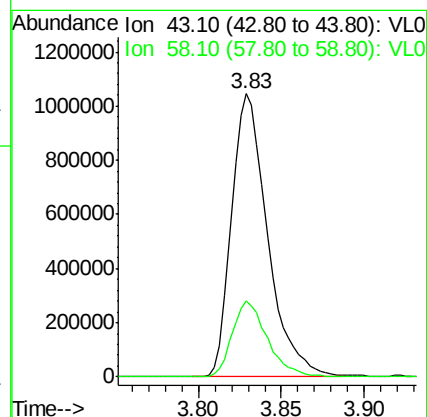
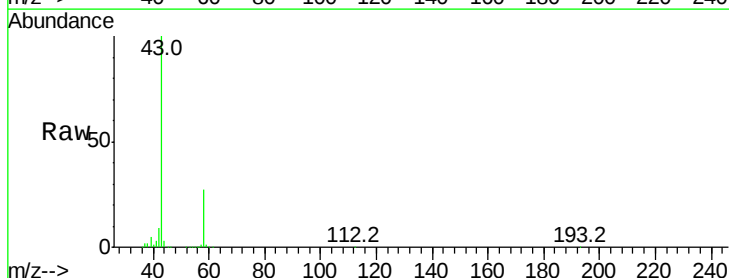
Instrument :
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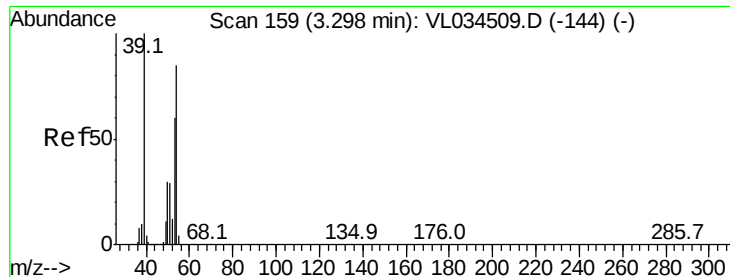
Tgt Ion: 45 Resp: 814599
Ion Ratio Lower Upper
45 100
46 36.9 14.9 59.7



#15
Acetone
Concen: 11.482 ppbv
RT: 3.83 min Scan# 324
Delta R.T. 0.00 min
Lab File: VL034537.D
Acq: 31 Dec 2019 7:44

Tgt Ion: 43 Resp: 1577910
Ion Ratio Lower Upper
43 100
58 26.3 20.4 30.6

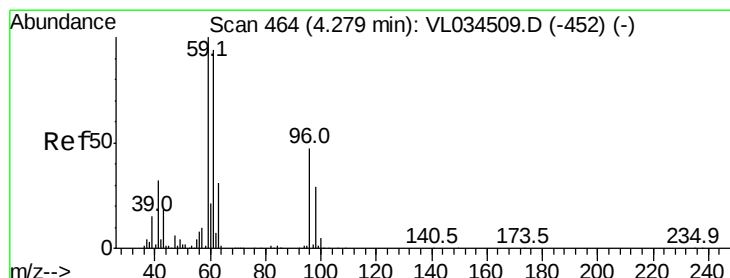
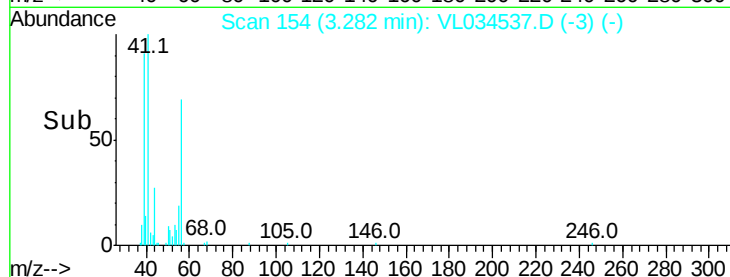
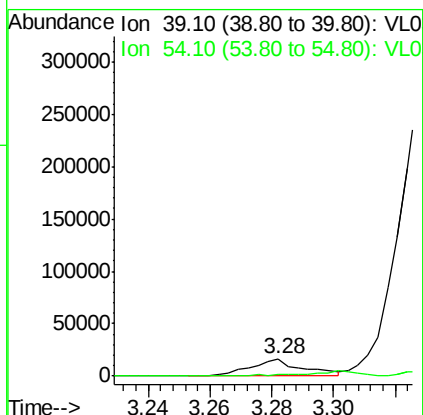
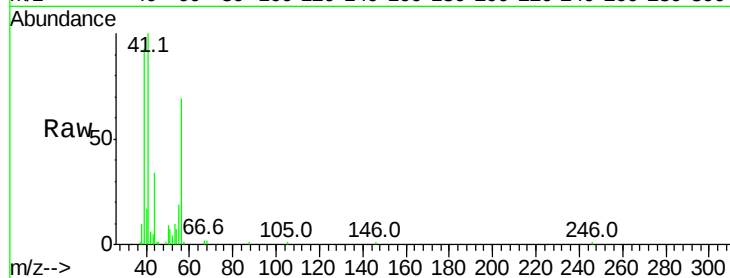




#16
1,3-Butadiene
Concen: 0.351 ppbv
RT: 3.28 min Scan# 154
Delta R.T. -0.02 min
Lab File: VL034537.D
Acq: 31 Dec 2019 7:44

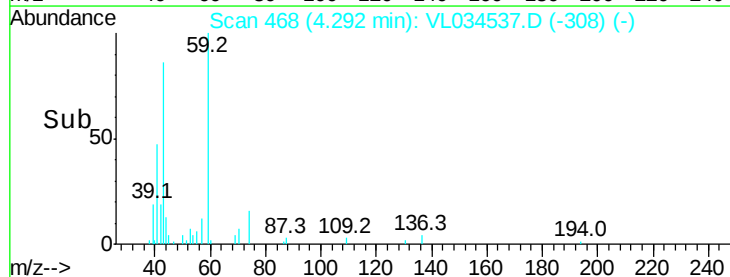
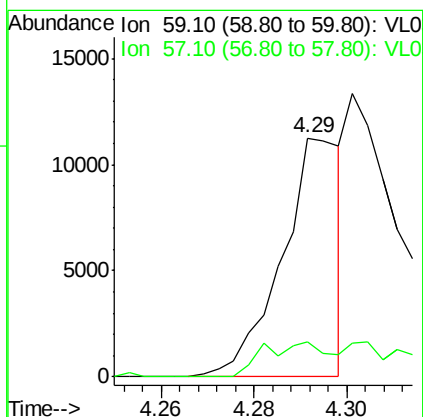
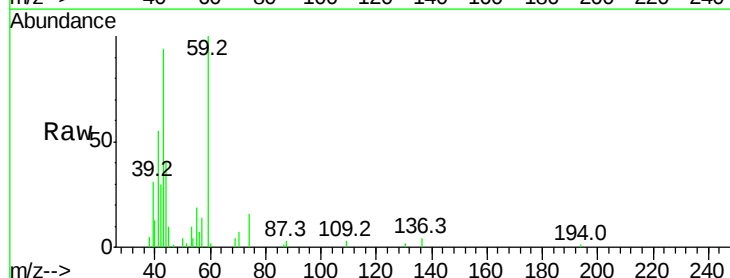
Instrument :
MSVOA_L
ClientSampled :
44-1

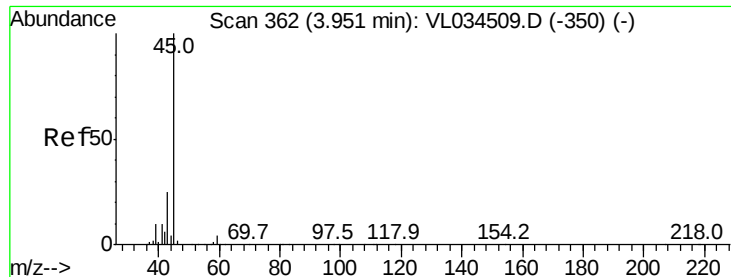
Tgt Ion: 39 Resp: 18544
Ion Ratio Lower Upper
39 100
54 66.5 66.2 99.2



#17
tert-Butyl alcohol
Concen: 0.090 ppbv
RT: 4.29 min Scan# 468
Delta R.T. 0.01 min
Lab File: VL034537.D
Acq: 31 Dec 2019 7:44

Tgt Ion: 59 Resp: 9953
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#





#19

Isopropyl Alcohol

Concen: 6.068 ppbv

RT: 3.96 min Scan# 366

Delta R.T. 0.01 min

Lab File: VL034537.D

Acq: 31 Dec 2019 7:44

Instrument :

MSVOA_L

ClientSampleId :

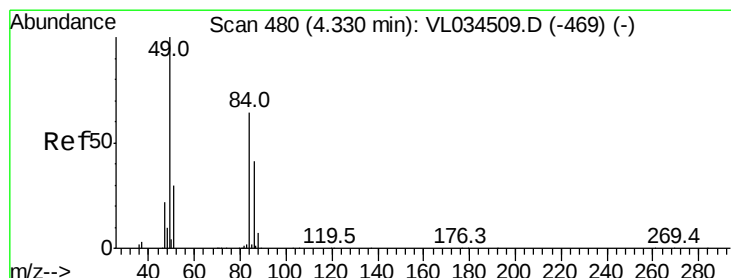
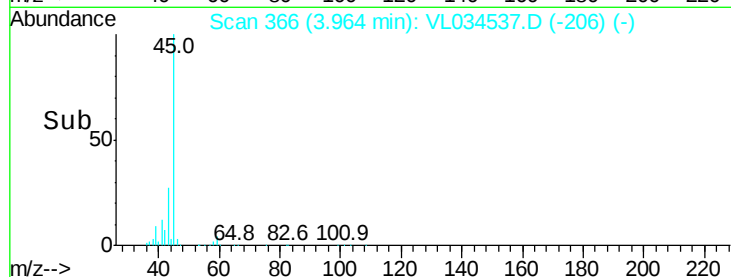
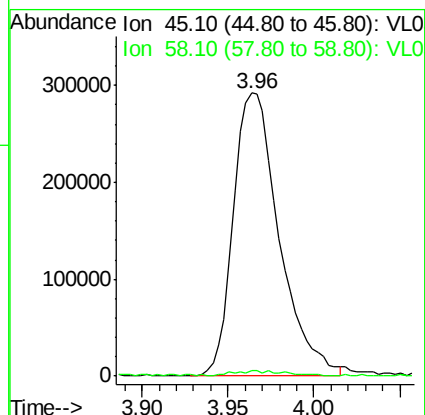
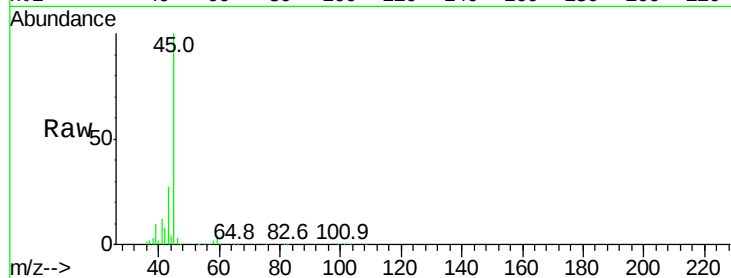
44-1

Tgt Ion: 45 Resp: 539858

Ion Ratio Lower Upper

45 100

58 2.5 1.4 2.0#



#20

Methylene Chloride

Concen: 0.310 ppbv

RT: 4.34 min Scan# 482

Delta R.T. 0.01 min

Lab File: VL034537.D

Acq: 31 Dec 2019 7:44

Tgt Ion: 84 Resp: 16784

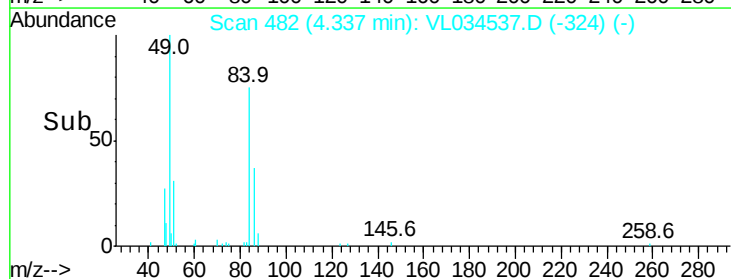
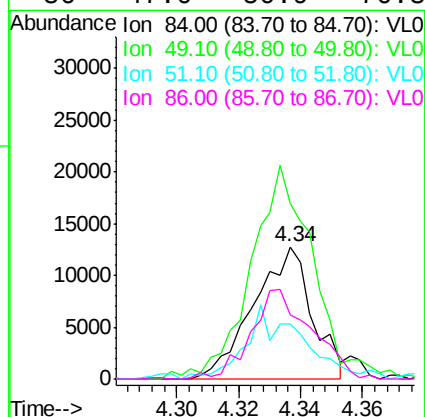
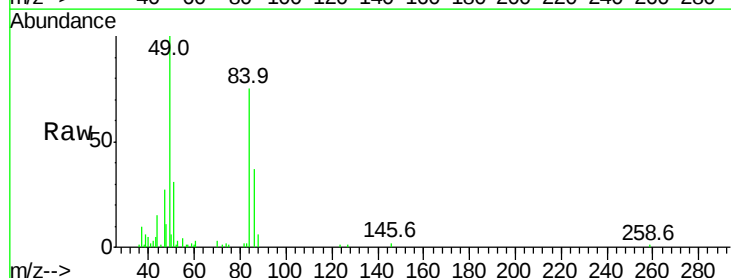
Ion Ratio Lower Upper

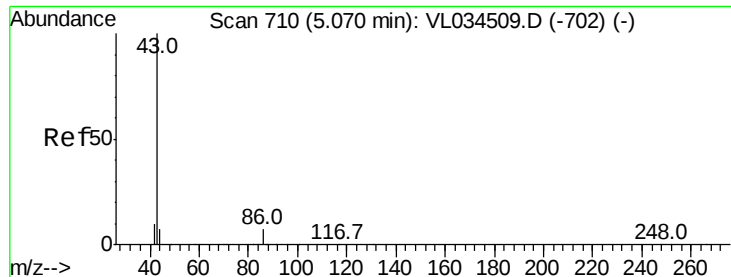
84 100

49 124.7 124.4 186.6

51 37.9 37.0 55.6

86 47.0 50.9 76.3#





#23

Vinyl Acetate

Concen: 0.056 ppbv

RT: 5.07 min Scan# 711

Delta R.T. 0.00 min

Lab File: VL034537.D

Acq: 31 Dec 2019 7:44

Instrument :

MSVOA_L

ClientSampleId :

44-1

Tgt Ion: 43 Resp: 8909

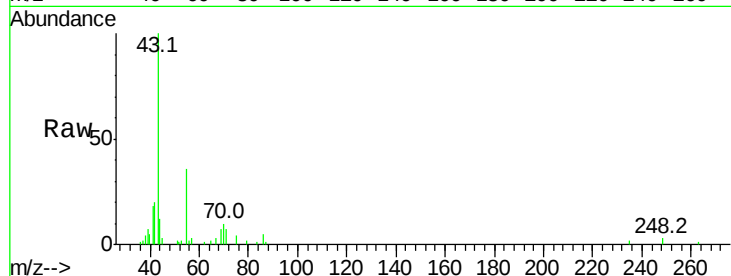
Ion Ratio Lower Upper

43 100

86 8.7 5.4 8.2#

42 7.2 8.9 13.3#

44 0.6 5.0 7.4#

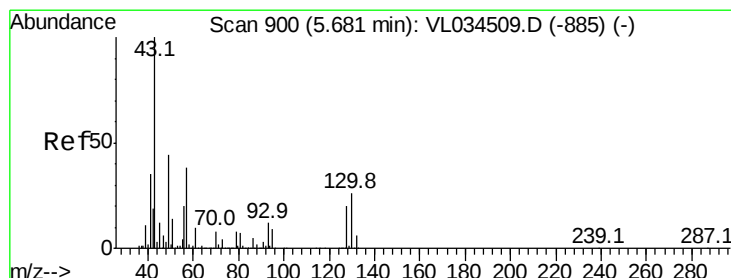
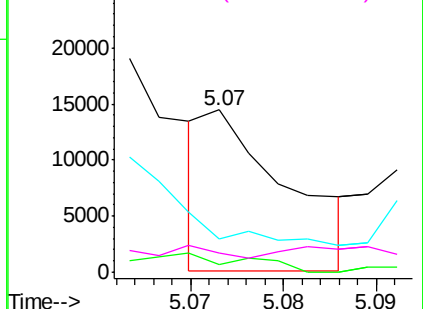
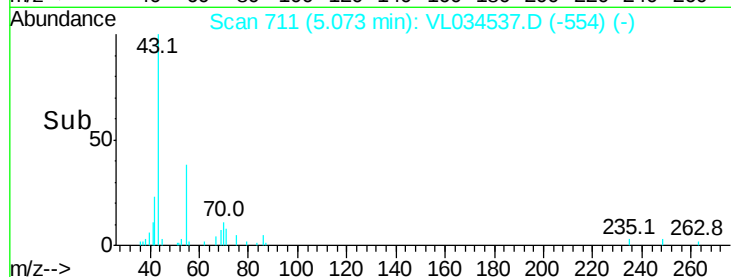


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.338 ppbv

RT: 5.68 min Scan# 900

Delta R.T. 0.00 min

Lab File: VL034537.D

Acq: 31 Dec 2019 7:44

Tgt Ion: 43 Resp: 72579

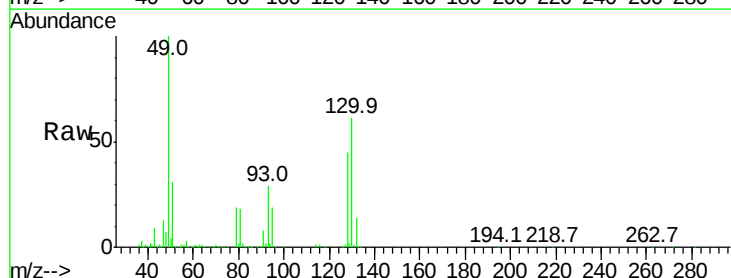
Ion Ratio Lower Upper

43 100

45 11.1 8.3 12.5

61 9.3 7.8 11.6

70 7.7 5.8 8.8

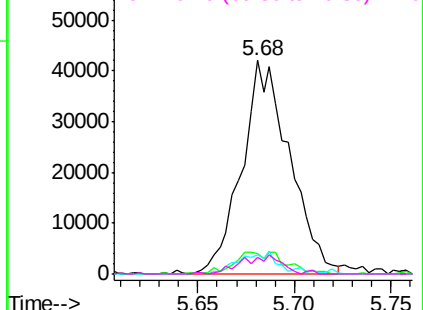
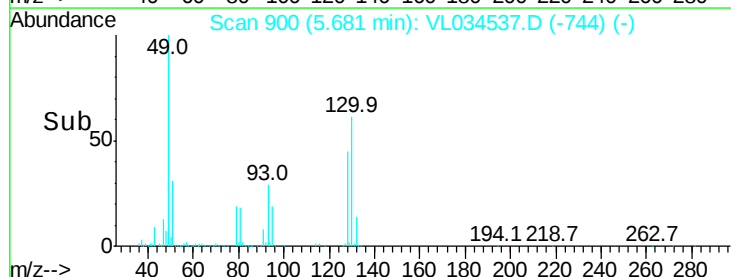


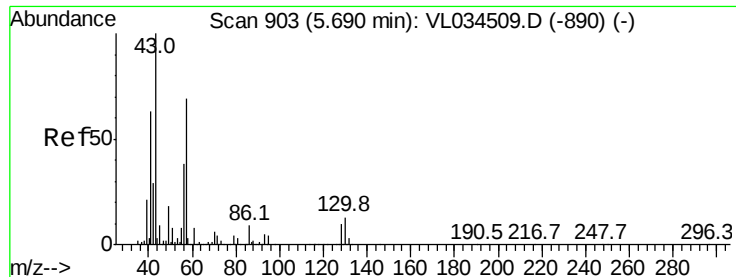
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.359 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.00 min

Lab File: VL034537.D

Acq: 31 Dec 2019 7:44

Instrument :
MSVOA_L
ClientSampleId :
44-1

Tgt Ion: 57 Resp: 32450

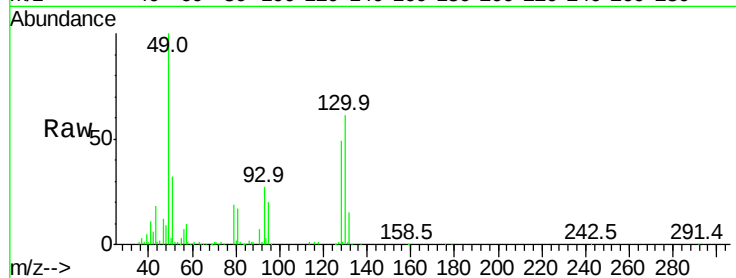
Ion Ratio Lower Upper

57 100

41 105.8 75.3 112.9

43 229.0 189.4 284.2

56 59.8 42.8 64.2

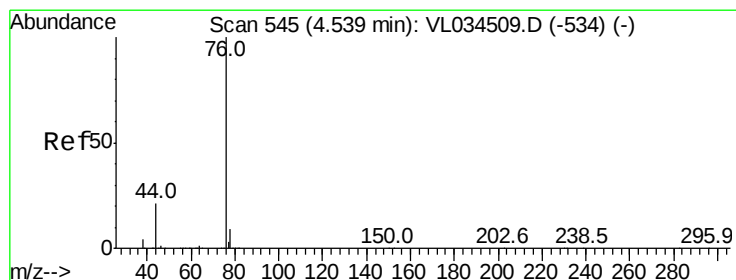
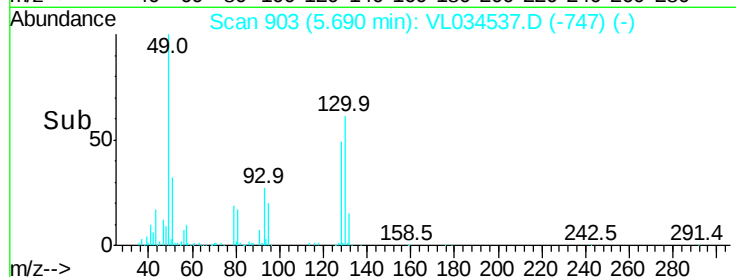
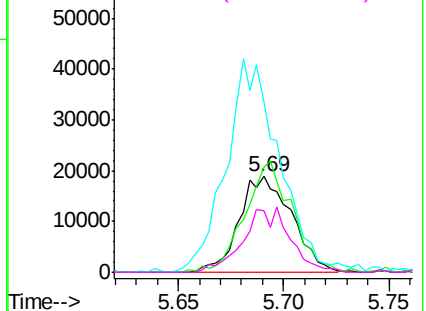


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#27

Carbon Disulfide

Concen: 0.174 ppbv

RT: 4.55 min Scan# 547

Delta R.T. 0.01 min

Lab File: VL034537.D

Acq: 31 Dec 2019 7:44

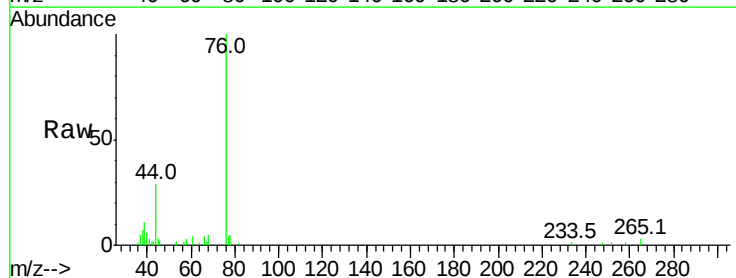
Tgt Ion: 76 Resp: 19883

Ion Ratio Lower Upper

76 100

44 46.4 16.6 25.0#

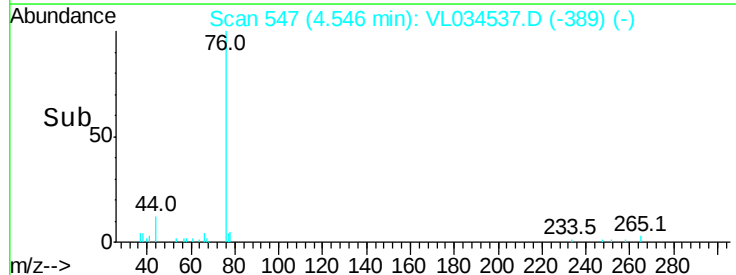
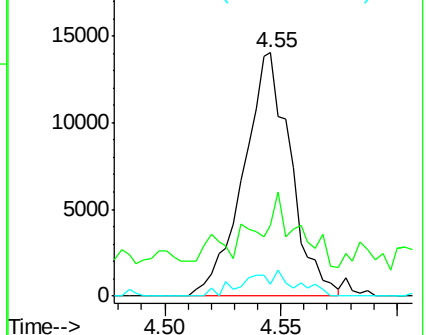
78 11.1 7.4 11.0#

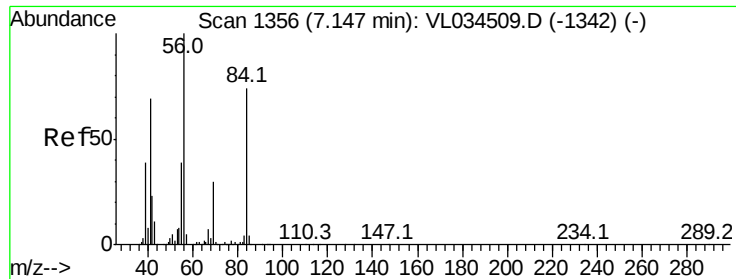


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0

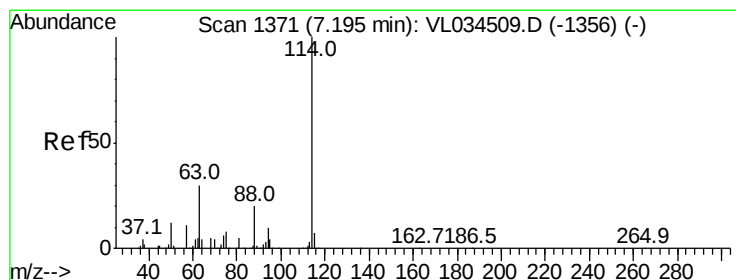
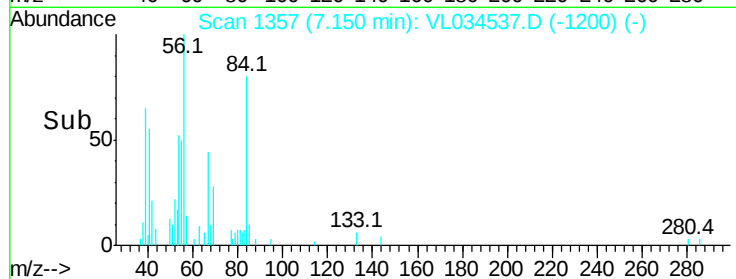
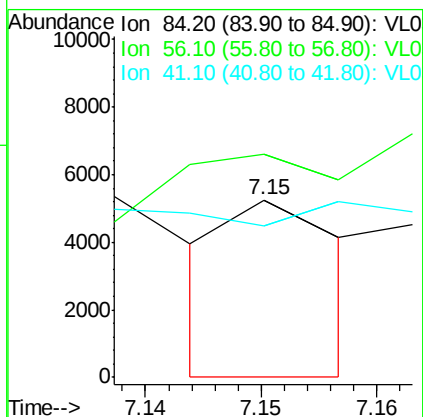
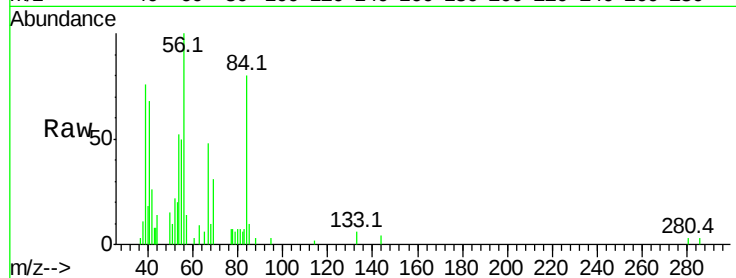




#30
Cyclohexane
Concen: 0.027 ppbv
RT: 7.15 min Scan# 1357
Delta R.T. 0.00 min
Lab File: VL034537.D
Acq: 31 Dec 2019 7:44

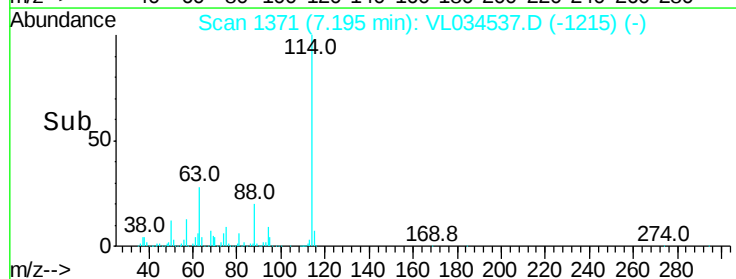
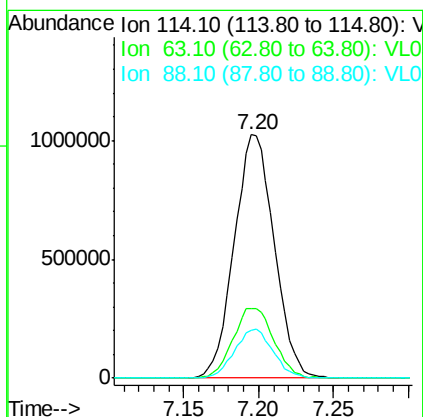
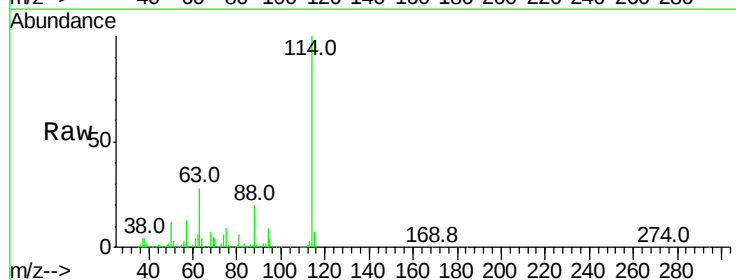
Instrument :
MSVOA_L
ClientSampleId :
44-1

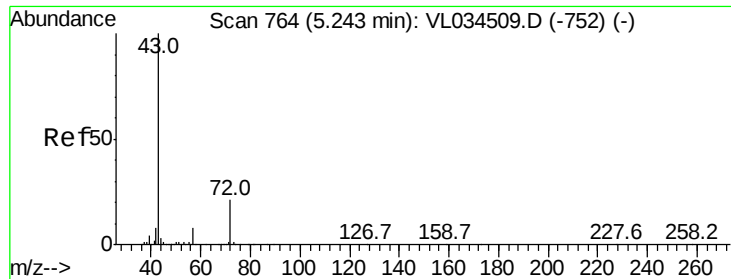
Tgt Ion: 84 Resp: 1813
Ion Ratio Lower Upper
84 100
56 0.0 112.7 169.1#
41 0.0 73.0 109.4#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.20 min Scan# 1371
Delta R.T. 0.00 min
Lab File: VL034537.D
Acq: 31 Dec 2019 7:44

Tgt Ion: 114 Resp: 1906750
Ion Ratio Lower Upper
114 100
63 29.4 24.1 36.1
88 19.4 15.7 23.5

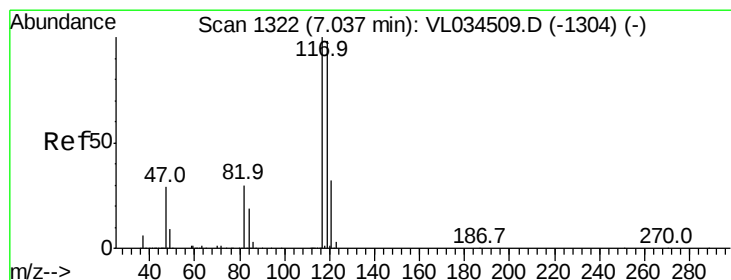
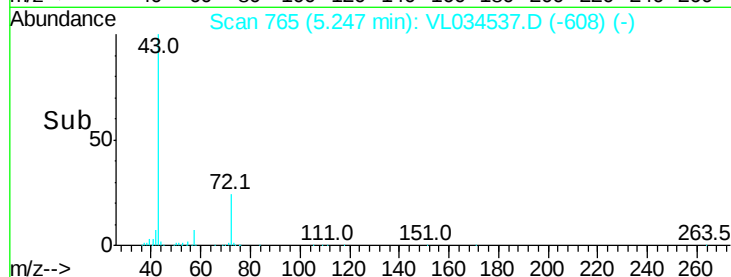
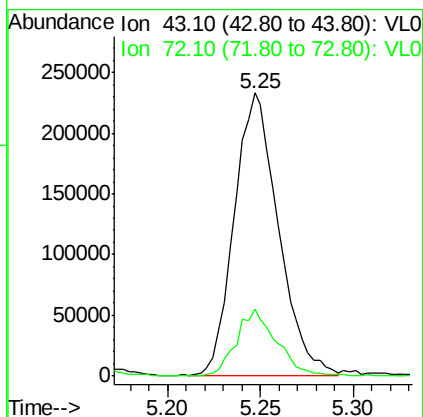
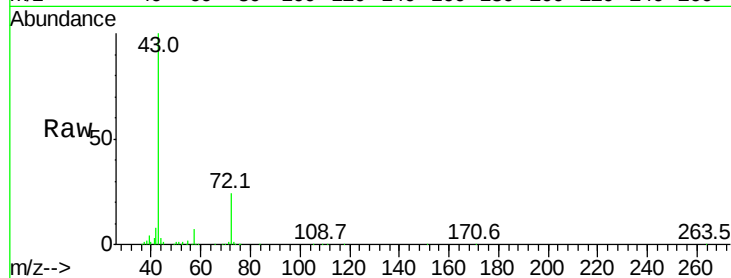




#34
2-Butanone
Concen: 2.833 ppbv
RT: 5.25 min Scan# 765
Delta R.T. 0.00 min
Lab File: VL034537.D
Acq: 31 Dec 2019 7:44

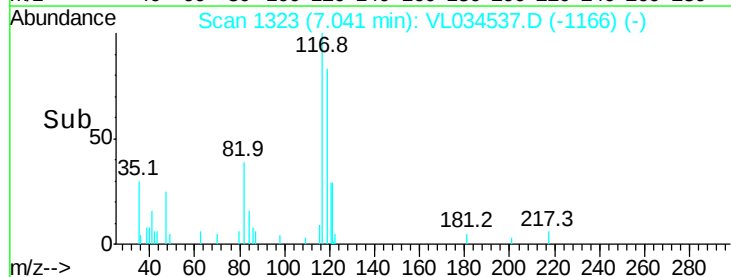
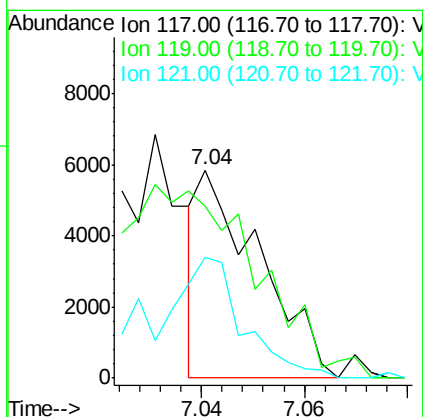
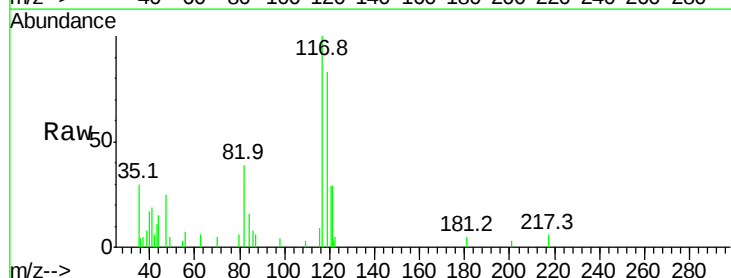
Instrument :
MSVOA_L
ClientSampleId :
44-1

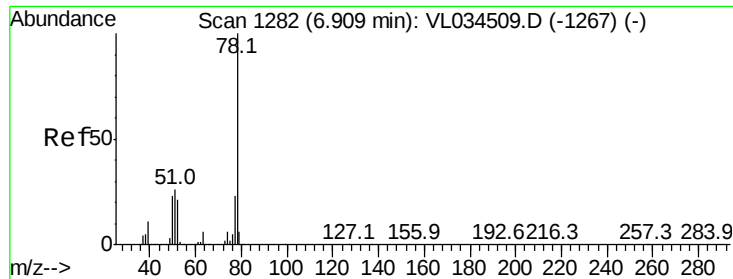
Tgt Ion: 43 Resp: 385984
Ion Ratio Lower Upper
43 100
72 21.7 17.0 25.4



#35
Carbon Tetrachloride
Concen: 0.028 ppbv
RT: 7.04 min Scan# 1323
Delta R.T. 0.00 min
Lab File: VL034537.D
Acq: 31 Dec 2019 7:44

Tgt Ion: 117 Resp: 4801
Ion Ratio Lower Upper
117 100
119 74.6 78.7 118.1#
121 61.6 25.9 38.9#





#36

Benzene

Concen: 0.267 ppbv

RT: 6.91 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VL034537.D

Acq: 31 Dec 2019 7:44

Instrument :

MSVOA_L

ClientSampleId :

44-1

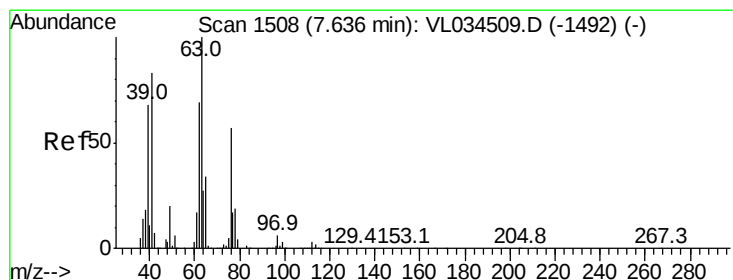
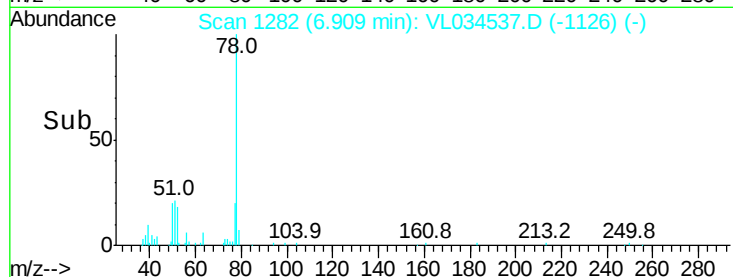
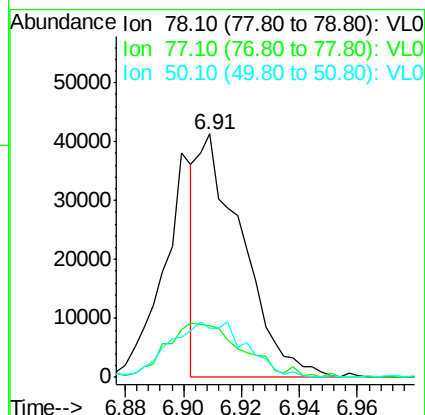
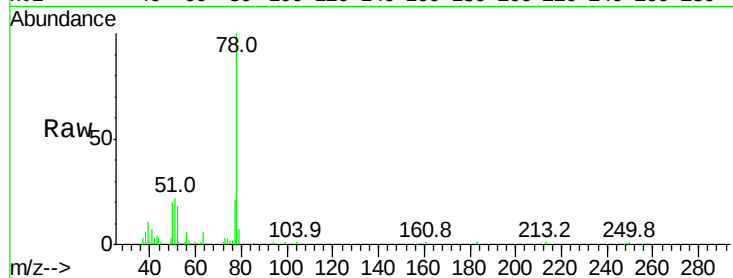
Tgt Ion: 78 Resp: 44382

Ion Ratio Lower Upper

78 100

77 21.0 18.6 28.0

50 20.4 18.8 28.2



#39

1,2-Dichloropropane

Concen: 8.144 ppbv

RT: 7.20 min Scan# 1372

Delta R.T. -0.44 min

Lab File: VL034537.D

Acq: 31 Dec 2019 7:44

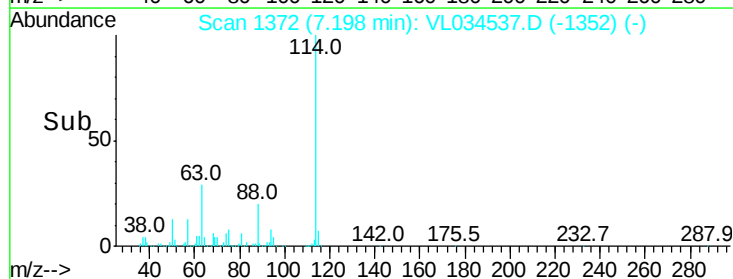
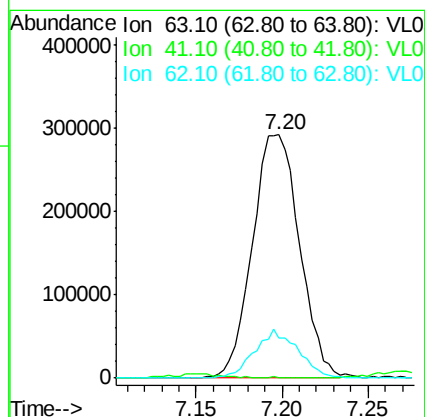
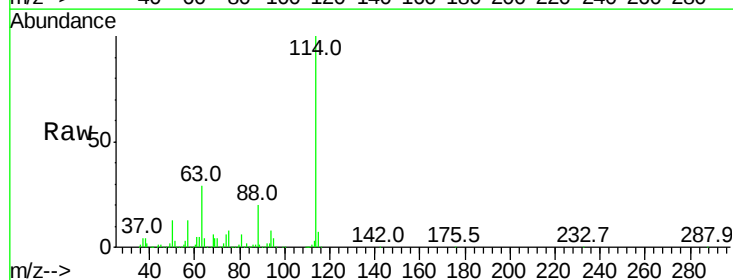
Tgt Ion: 63 Resp: 556627

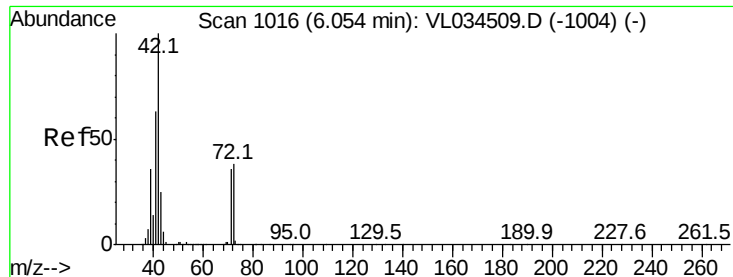
Ion Ratio Lower Upper

63 100

41 0.0 66.1 99.1#

62 16.6 54.9 82.3#





#41

Tetrahydrofuran

Concen: 0.577 ppbv

RT: 6.07 min Scan# 1021

Delta R.T. 0.02 min

Lab File: VL034537.D

Acq: 31 Dec 2019 7:44

Instrument :

MSVOA_L

ClientSampleId :

44-1

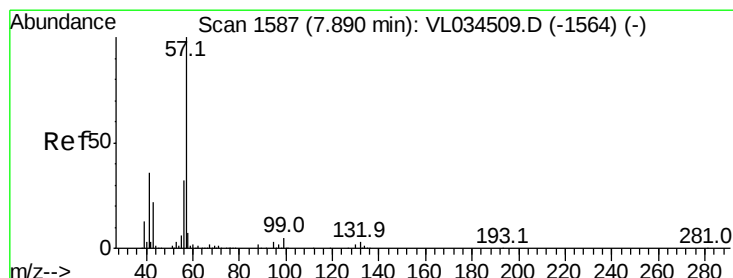
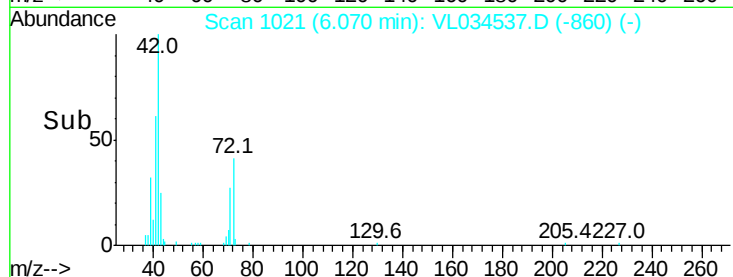
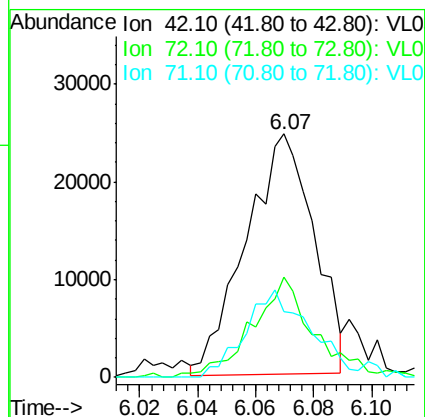
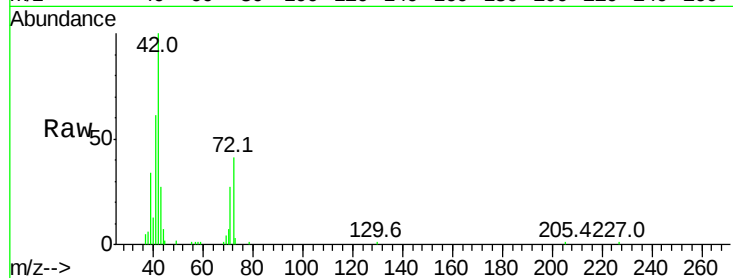
Tgt Ion: 42 Resp: 40319

Ion Ratio Lower Upper

42 100

72 39.2 30.9 46.3

71 36.3 28.9 43.3



#44

2,2,4-Trimethylpentane

Concen: 0.212 ppbv

RT: 7.89 min Scan# 1588

Delta R.T. 0.00 min

Lab File: VL034537.D

Acq: 31 Dec 2019 7:44

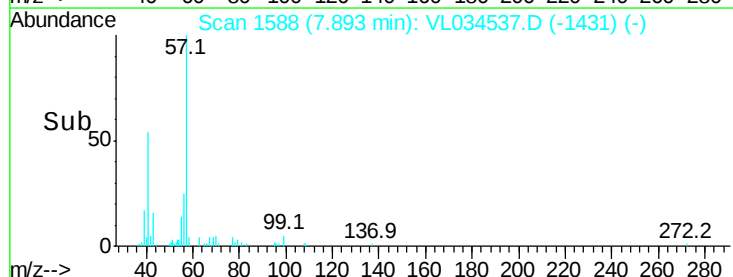
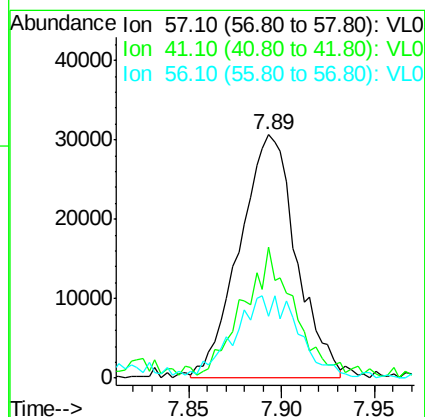
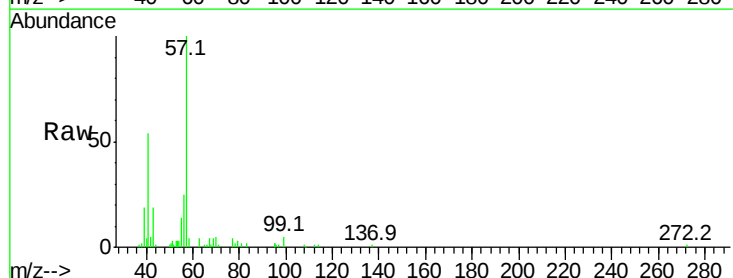
Tgt Ion: 57 Resp: 65276

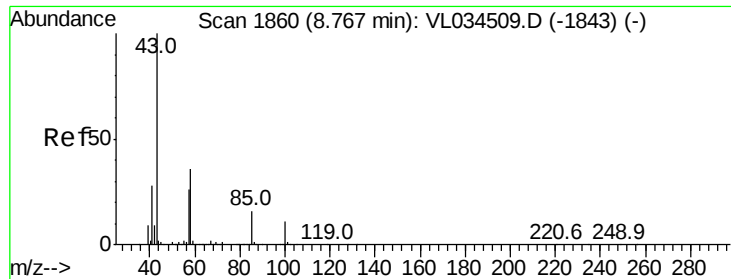
Ion Ratio Lower Upper

57 100

41 51.3 29.0 43.4#

56 40.0 24.9 37.3#

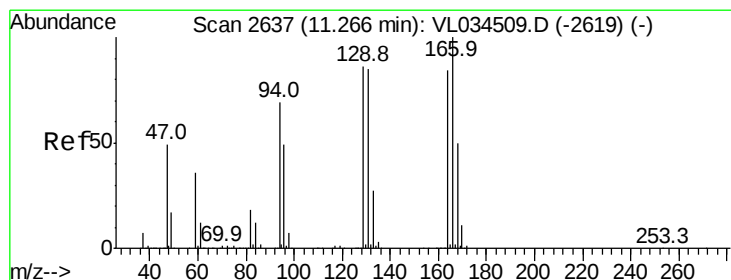
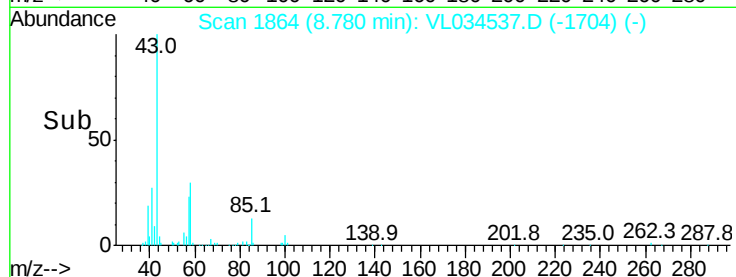
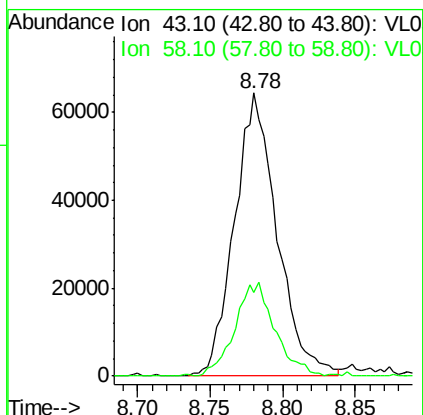
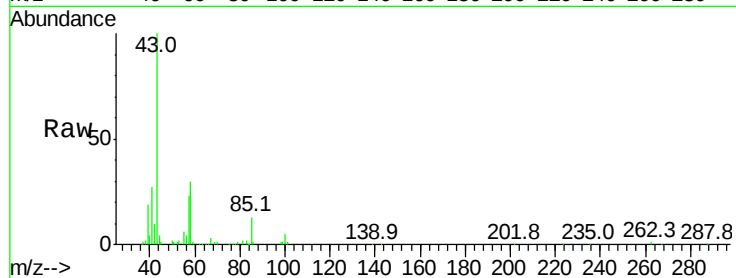




#50
4-Methyl-2-Pentanone
Concen: 0.665 ppbv
RT: 8.78 min Scan# 1864
Delta R.T. 0.01 min
Lab File: VL034537.D
Acq: 31 Dec 2019 7:44

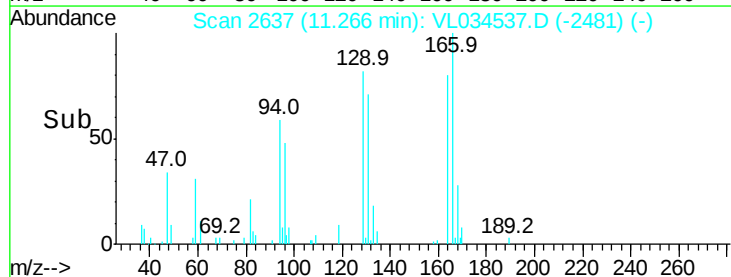
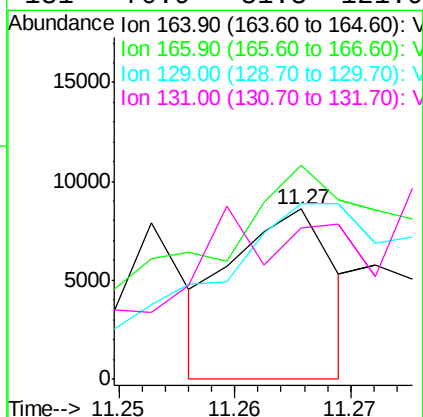
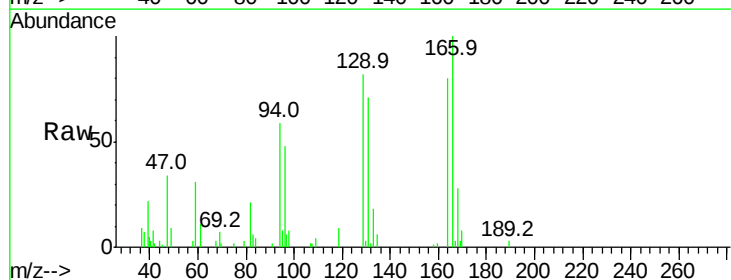
Instrument :
MSVOA_L
ClientSampleId :
44-1

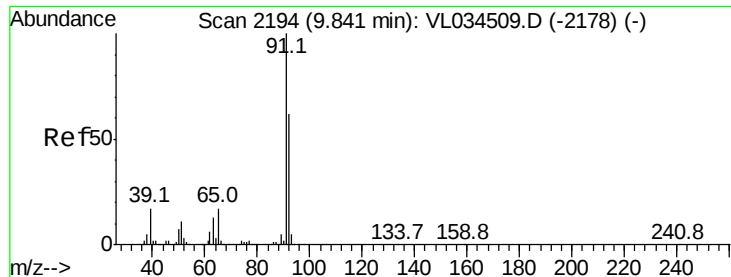
Tgt Ion: 43 Resp: 131459
Ion Ratio Lower Upper
43 100
58 31.4 28.2 42.2



#52
Tetrachloroethene
Concen: 0.081 ppbv
RT: 11.27 min Scan# 2637
Delta R.T. 0.00 min
Lab File: VL034537.D
Acq: 31 Dec 2019 7:44

Tgt Ion: 164 Resp: 5230
Ion Ratio Lower Upper
164 100
166 108.2 95.7 143.5
129 100.4 82.2 123.2
131 70.9 81.3 121.9#





#53

Toluene

Concen: 1.626 ppbv

RT: 9.84 min Scan# 2195

Delta R.T. 0.00 min

Lab File: VL034537.D

Acq: 31 Dec 2019 7:44

Instrument :

MSVOA_L

ClientSampleId :

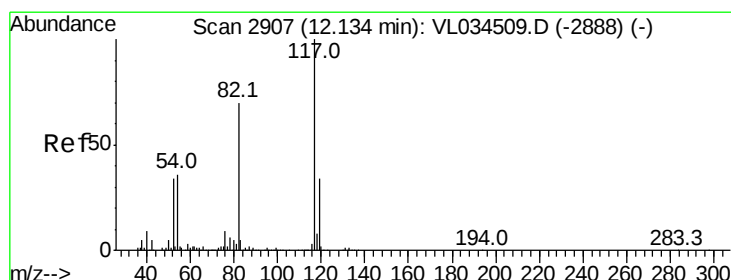
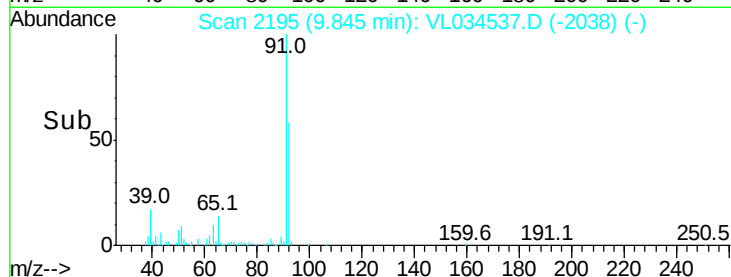
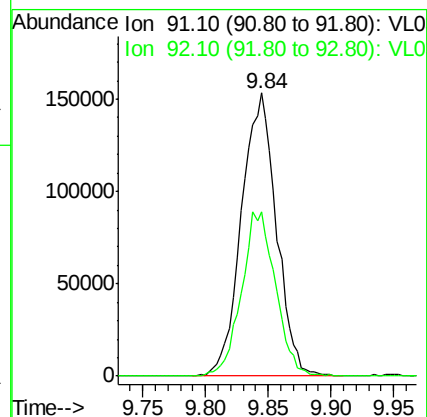
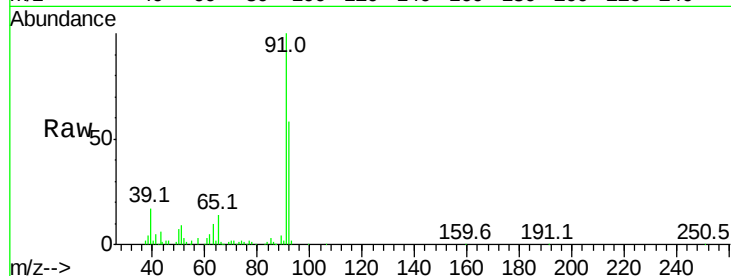
44-1

Tgt Ion: 91 Resp: 296996

Ion Ratio Lower Upper

91 100

92 56.4 48.4 72.6



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.13 min Scan# 2906

Delta R.T. -0.00 min

Lab File: VL034537.D

Acq: 31 Dec 2019 7:44

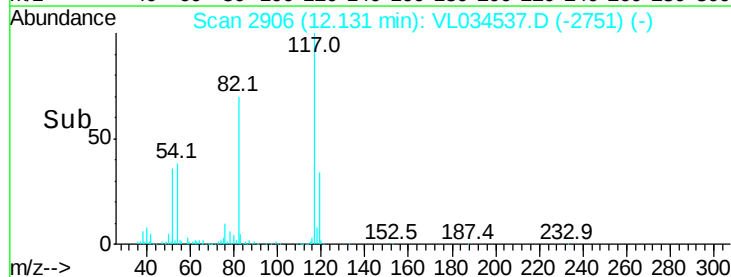
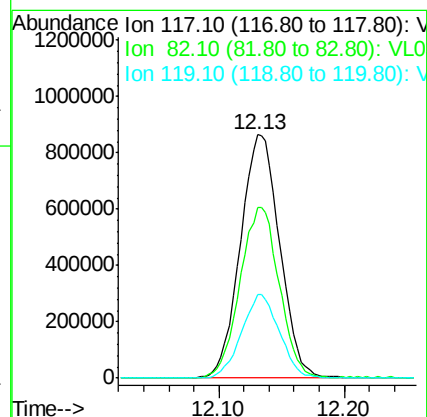
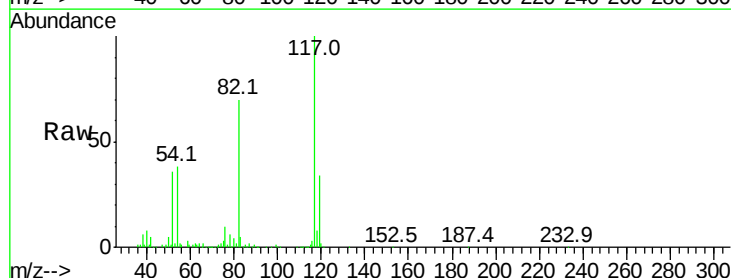
Tgt Ion: 117 Resp: 1882618

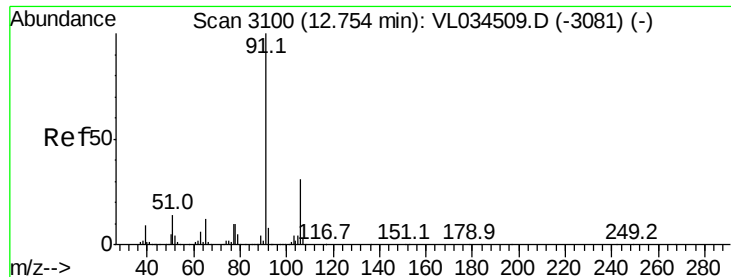
Ion Ratio Lower Upper

117 100

82 71.0 56.2 84.4

119 33.2 27.1 40.7





#58

Ethyl Benzene

Concen: 0.450 ppbv

RT: 12.76 min Scan# 3101

Delta R.T. 0.00 min

Lab File: VL034537.D

Acq: 31 Dec 2019 7:44

Instrument :

MSVOA_L

ClientSampleId :

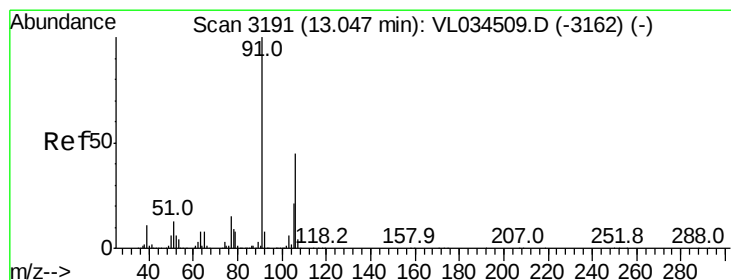
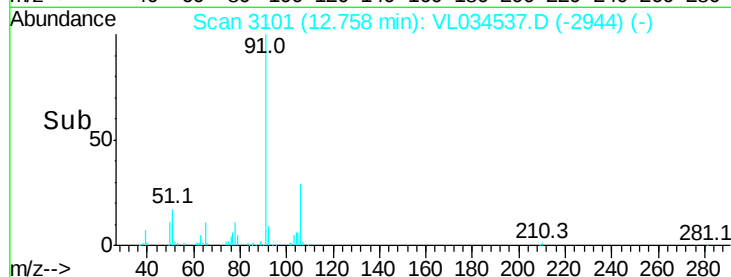
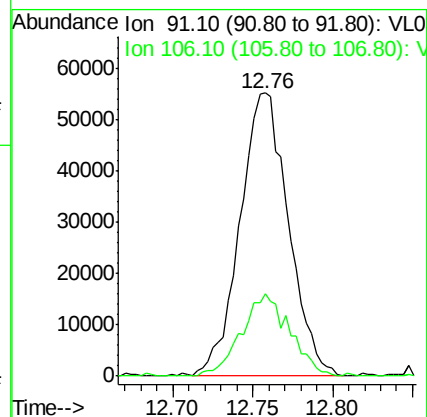
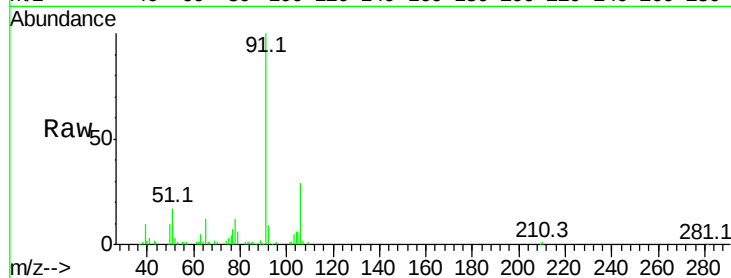
44-1

Tgt Ion: 91 Resp: 114220

Ion Ratio Lower Upper

91 100

106 28.9 24.6 36.8



#59

m/p-Xylene

Concen: 1.814 ppbv

RT: 13.01 min Scan# 3181

Delta R.T. -0.03 min

Lab File: VL034537.D

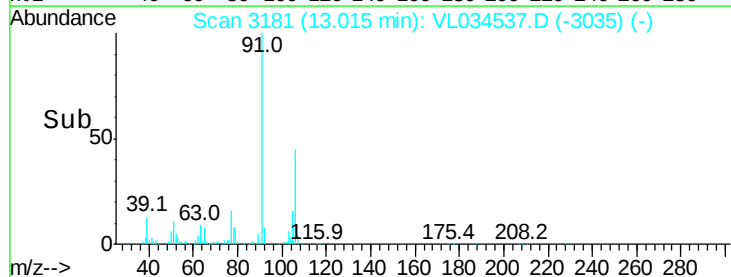
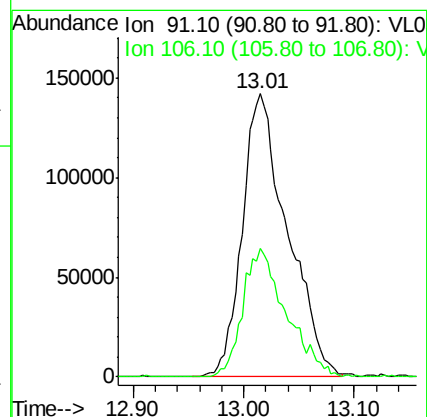
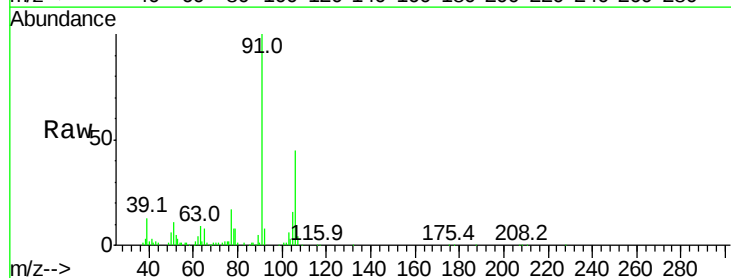
Acq: 31 Dec 2019 7:44

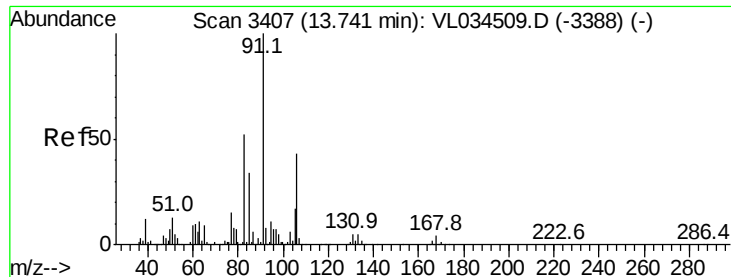
Tgt Ion: 91 Resp: 402787

Ion Ratio Lower Upper

91 100

106 43.5 35.6 53.4

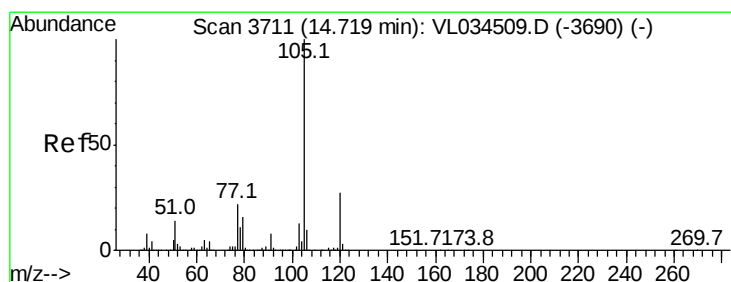
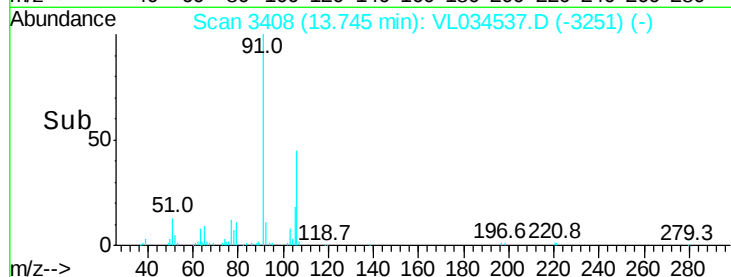
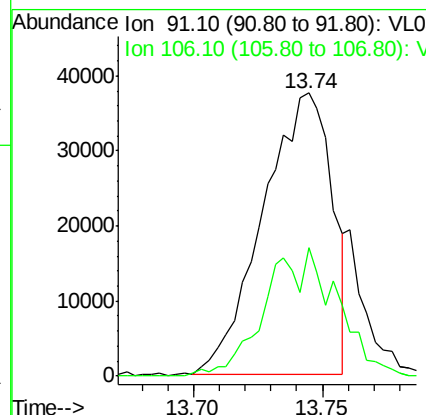
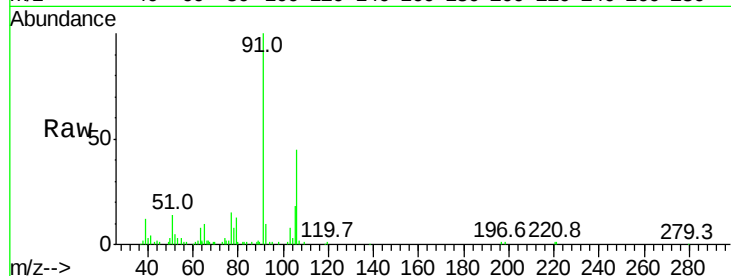




#60
o-Xylene
Concen: 0.315 ppbv
RT: 13.74 min Scan# 3408
Delta R.T. 0.00 min
Lab File: VL034537.D
Acq: 31 Dec 2019 7:44

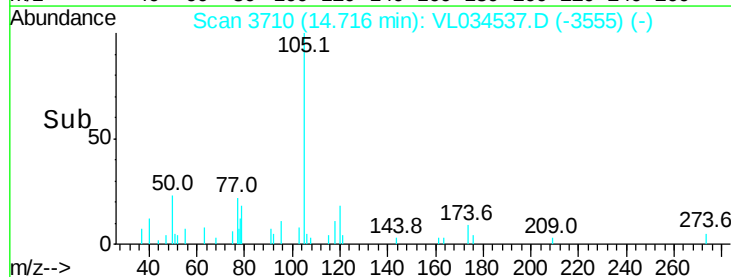
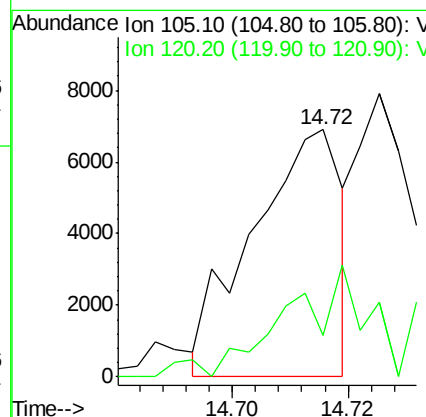
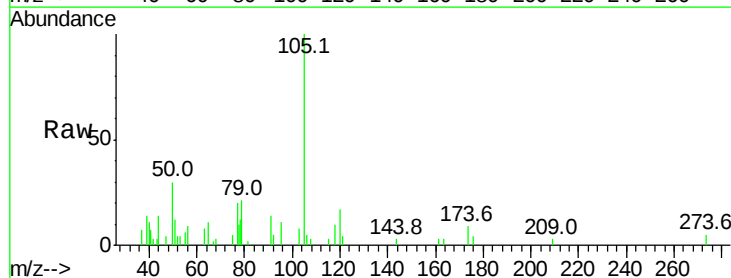
Instrument :
MSVOA_L
ClientSampleId :
44-1

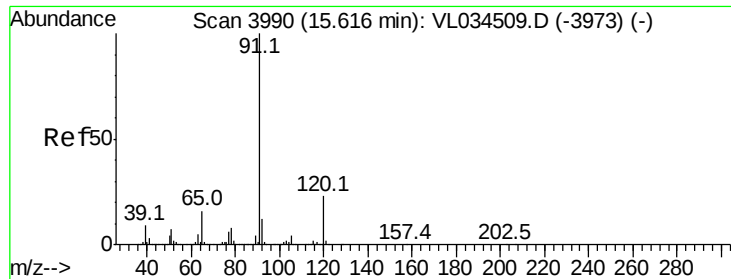
Tgt Ion: 91 Resp: 70173
Ion Ratio Lower Upper
91 100
106 47.0 21.4 64.3



#62
Isopropylbenzene
Concen: 0.025 ppbv
RT: 14.72 min Scan# 3710
Delta R.T. -0.00 min
Lab File: VL034537.D
Acq: 31 Dec 2019 7:44

Tgt Ion: 105 Resp: 7379
Ion Ratio Lower Upper
105 100
120 61.1 20.6 30.8#





#64

n-propylbenzene

Concen: 0.042 ppbv

RT: 15.62 min Scan# 3990

Delta R.T. 0.00 min

Lab File: VL034537.D

Acq: 31 Dec 2019 7:44

Instrument :

MSVOA_L

ClientSampleId :

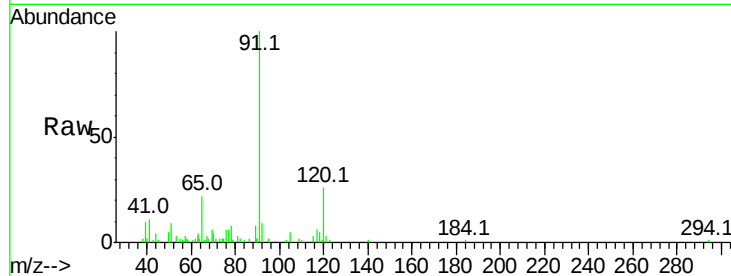
44-1

Tgt Ion:120 Resp: 3129

Ion Ratio Lower Upper

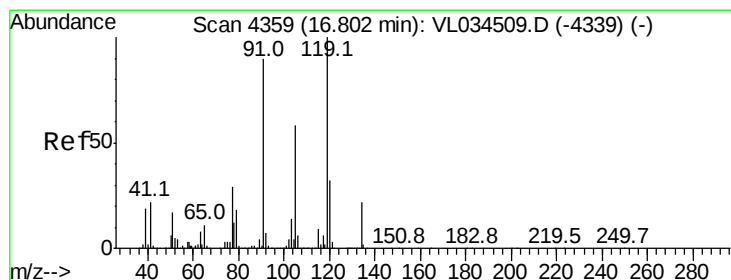
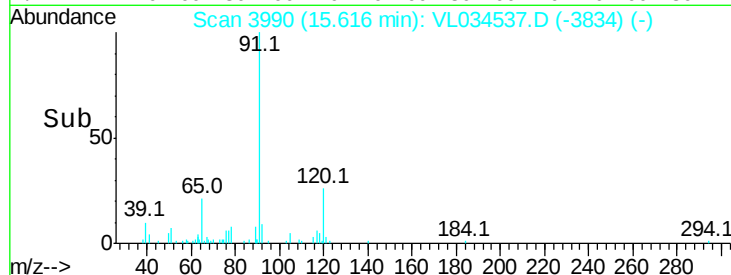
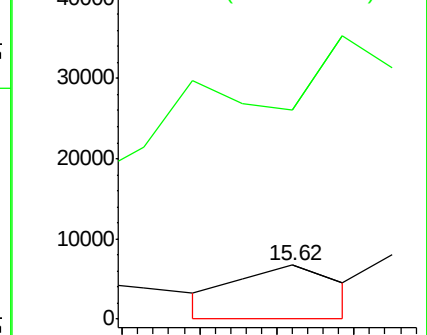
120 100

91 0.0 375.6 563.4#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.080 ppbv

RT: 16.82 min Scan# 4364

Delta R.T. 0.02 min

Lab File: VL034537.D

Acq: 31 Dec 2019 7:44

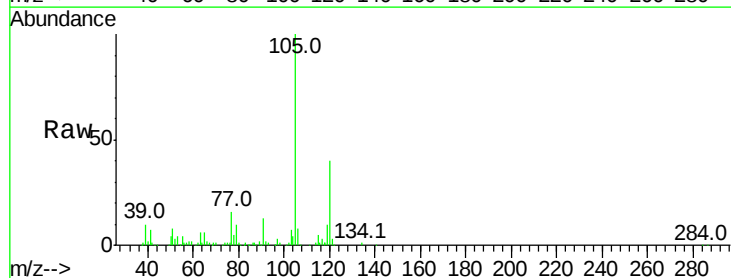
Tgt Ion:119 Resp: 20981

Ion Ratio Lower Upper

119 100

91 0.0 72.0 108.0#

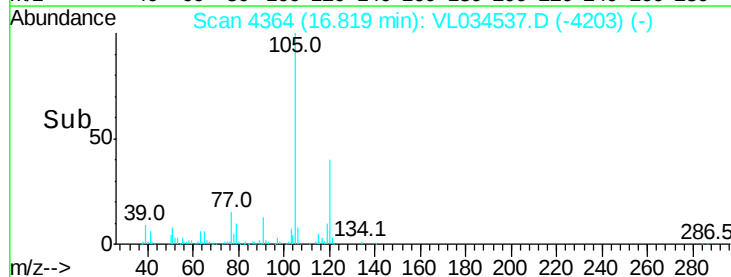
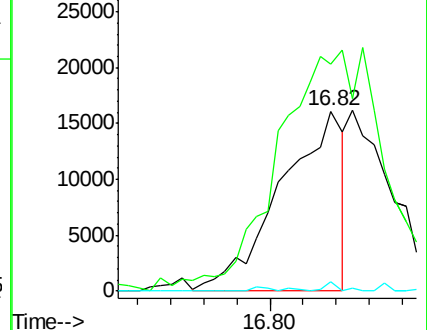
134 3.0 16.1 24.1#

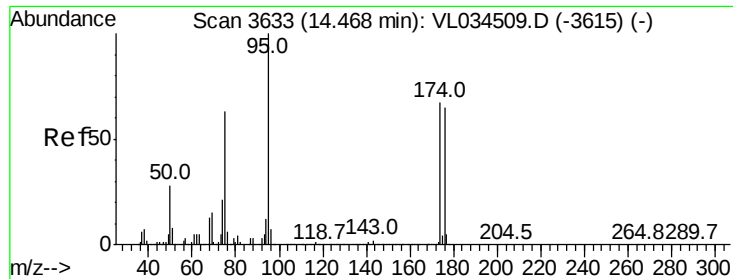


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.145 ppbv

RT: 14.47 min Scan# 3634

Delta R.T. 0.00 min

Lab File: VL034537.D

Acq: 31 Dec 2019 7:44

Instrument :

MSVOA_L

ClientSampleId :

44-1

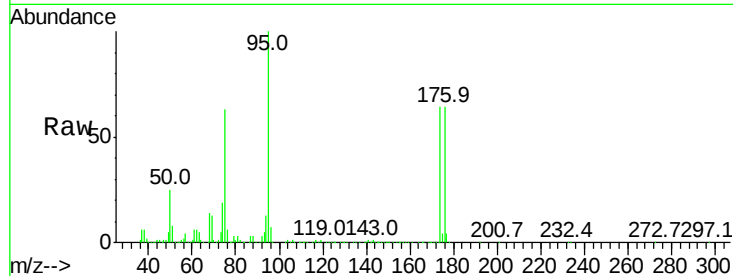
Tgt Ion: 95 Resp: 1593679

Ion Ratio Lower Upper

95 100

174 64.7 52.4 78.6

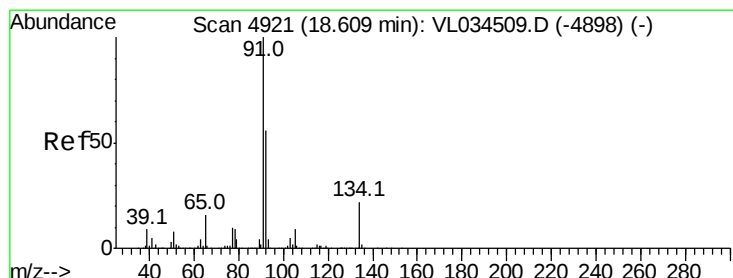
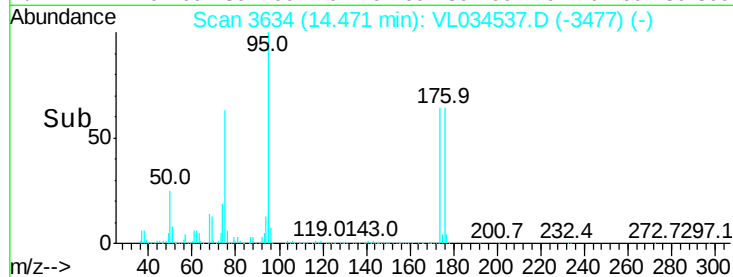
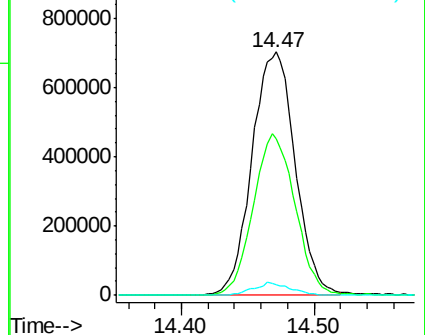
175 4.5 3.9 5.9



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): VL0

Ion 175.00 (174.70 to 175.70): VL0



#70

n-Butylbenzene

Concen: 0.049 ppbv

RT: 18.61 min Scan# 4922

Delta R.T. 0.00 min

Lab File: VL034537.D

Acq: 31 Dec 2019 7:44

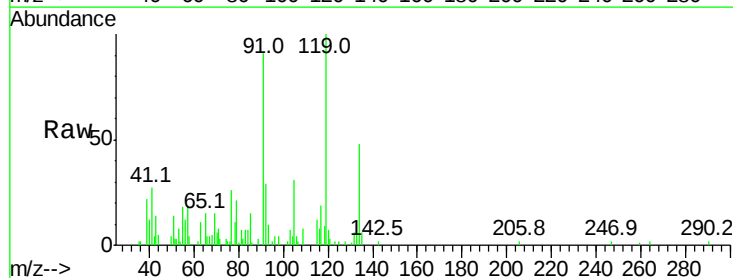
Tgt Ion: 91 Resp: 15704

Ion Ratio Lower Upper

91 100

92 0.0 43.8 65.6#

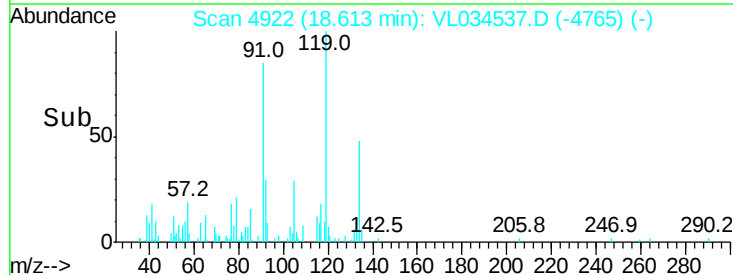
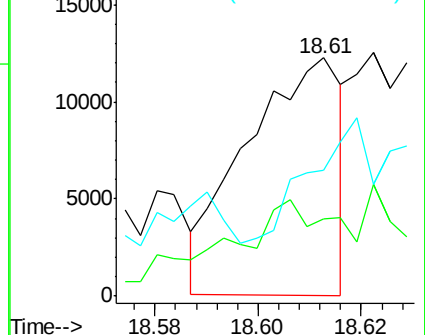
134 0.0 18.0 27.0#

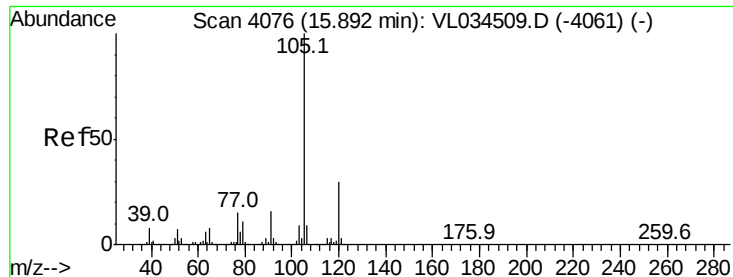


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): VL0





#72

4-Ethyltoluene

Concen: 0.242 ppbv

RT: 15.89 min Scan# 4076

Delta R.T. 0.00 min

Lab File: VL034537.D

Acq: 31 Dec 2019 7:44

Instrument :

MSVOA_L

ClientSampleId :

44-1

Tgt Ion:105 Resp: 60318

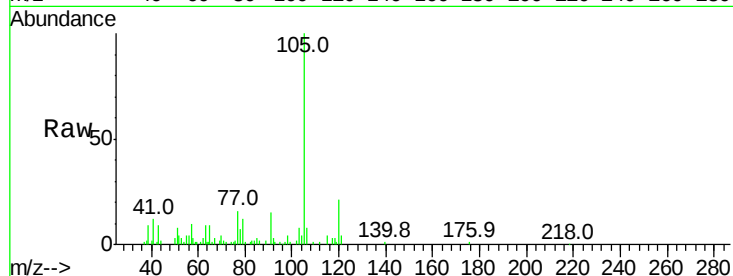
Ion Ratio Lower Upper

105 100

120 0.0 23.7 35.5#

91 0.0 11.5 17.3#

77 29.8 12.7 19.1#

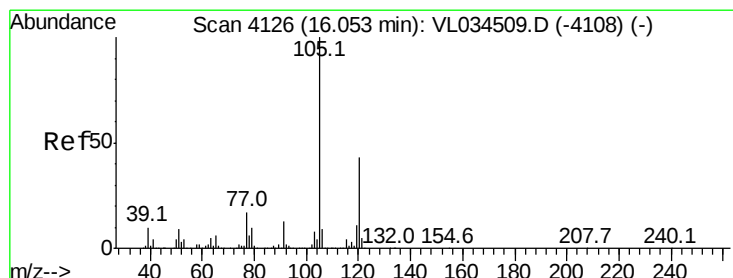
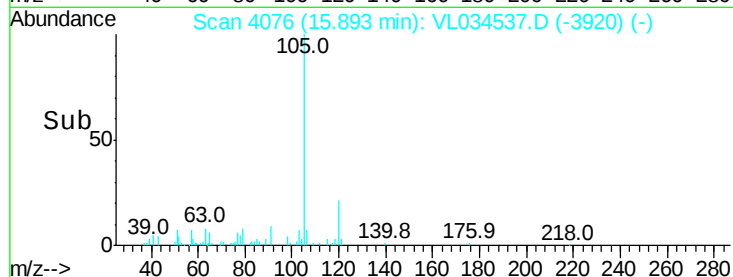
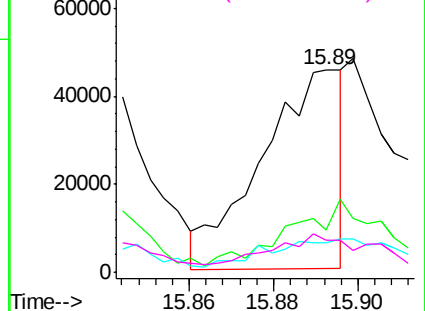


Abundance Ion 105.10 (104.80 to 105.80): V

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



#73

1,3,5-Trimethylbenzene

Concen: 0.433 ppbv

RT: 16.05 min Scan# 4125

Delta R.T. -0.00 min

Lab File: VL034537.D

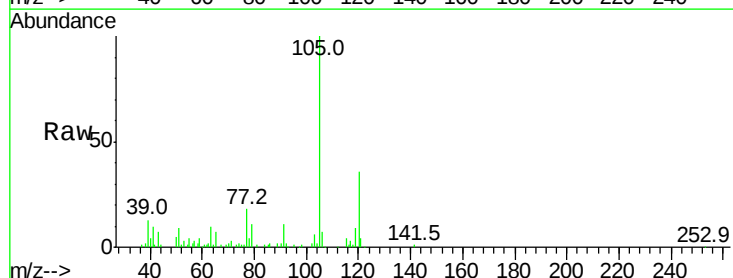
Acq: 31 Dec 2019 7:44

Tgt Ion:105 Resp: 105924

Ion Ratio Lower Upper

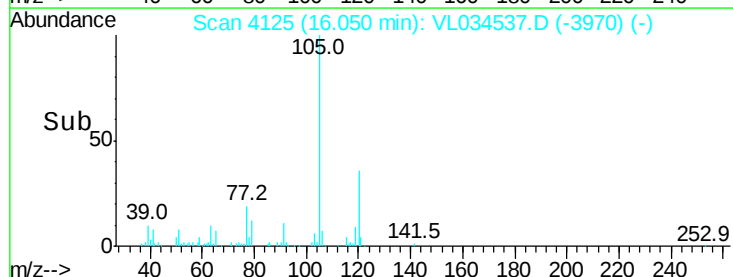
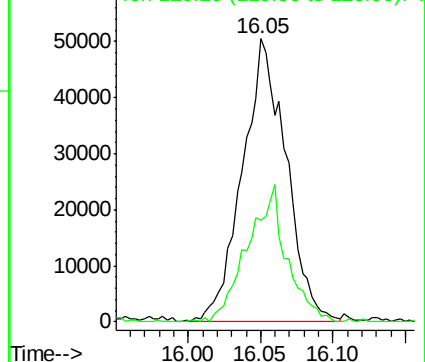
105 100

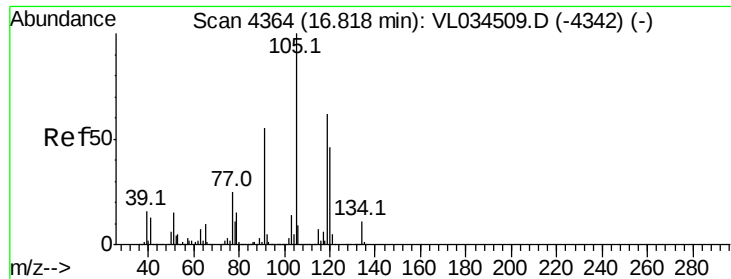
120 40.2 34.6 52.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

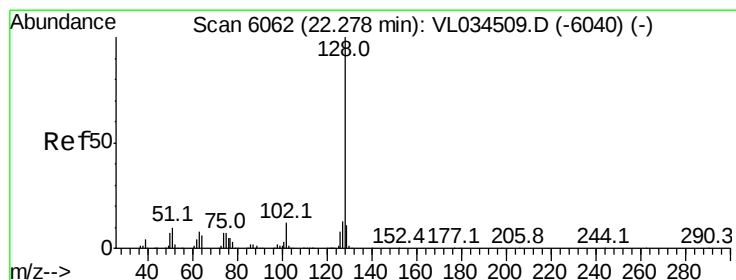
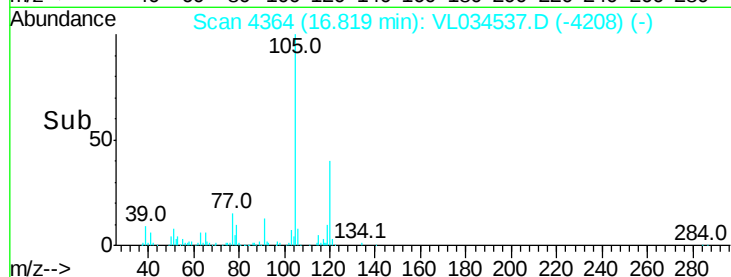
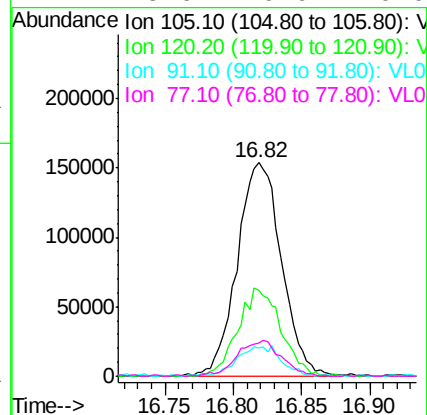
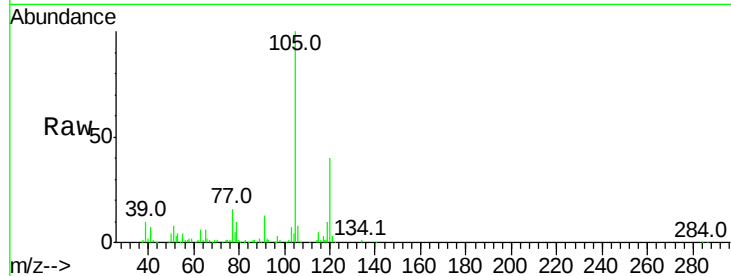




#74
 1,2,4-Trimethylbenzene
 Concen: 1.316 ppbv
 RT: 16.82 min Scan# 4364
 Delta R.T. 0.00 min
 Lab File: VL034537.D
 Acq: 31 Dec 2019 7:44

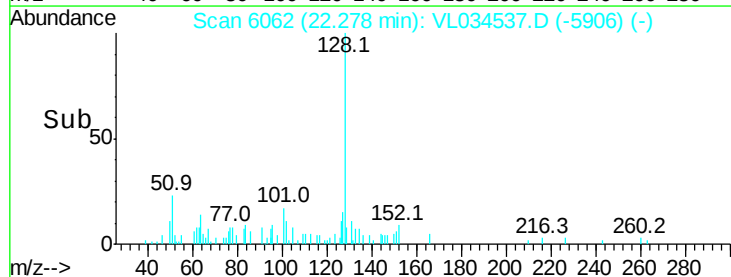
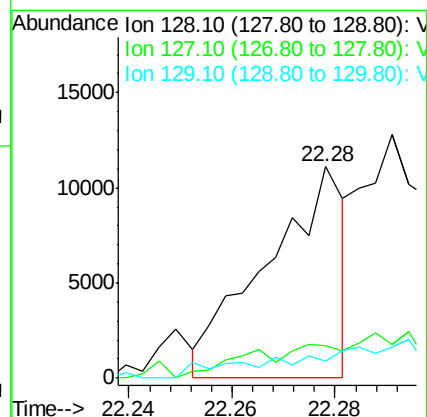
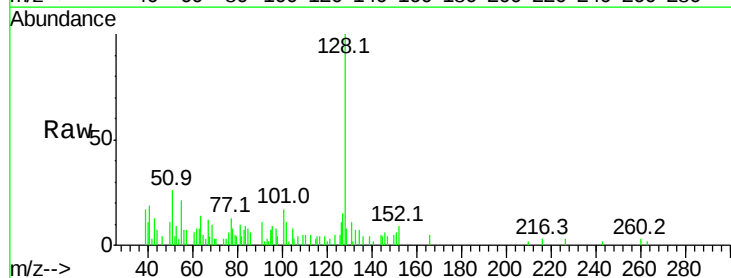
Instrument :
 MSVOA_L
 ClientSampleId :
 44-1

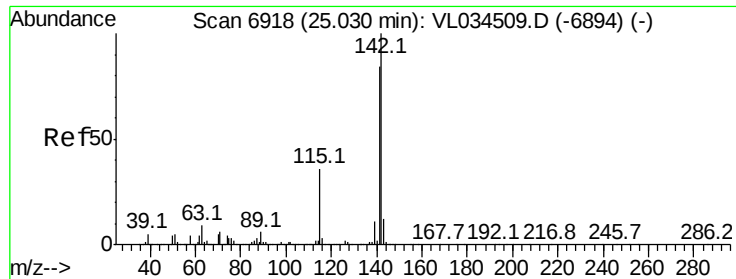
Tgt Ion:	105	Resp:	344364
Ion Ratio	Lower	Upper	
105	100		
120	40.5	36.7	55.1
91	12.9	44.0	66.0#
77	15.6	19.9	29.9#



#79
 Naphthalene
 Concen: 0.059 ppbv
 RT: 22.28 min Scan# 6062
 Delta R.T. 0.00 min
 Lab File: VL034537.D
 Acq: 31 Dec 2019 7:44

Tgt Ion:	128	Resp:	11571
Ion Ratio	Lower	Upper	
128	100		
127	14.1	10.6	15.8
129	0.6	8.7	13.1#





#80

Naphthalene, 2-methyl-

Concen: 0.145 ppbv

RT: 25.04 min Scan# 6920

Delta R.T. 0.01 min

Lab File: VL034537.D

Acq: 31 Dec 2019 7:44

Instrument :

MSVOA_L

ClientSampleId :

44-1

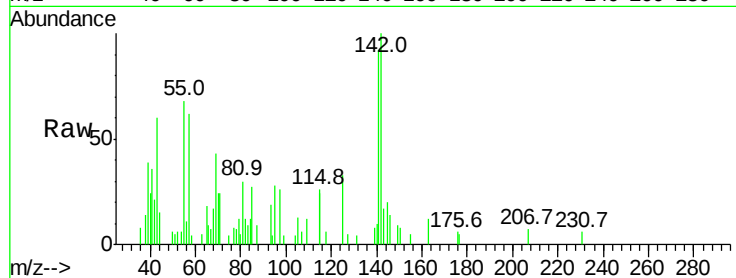
Tgt Ion:142 Resp: 7922

Ion Ratio Lower Upper

142 100

141 80.9 65.8 98.8

115 86.3 30.4 45.6#



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

