

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052220\
 Data File : VL035084.D
 Acq On : 22 May 2020 14:45
 Operator : SY/AP
 Sample : L2739-01DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: May 22 23:14:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 06 14:49:39 2020
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1075183	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.17	114	2527288	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	1250231	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2021005	19.97	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	199.70%#

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.00	85	30089	0.197	ppbv	99
3) Chlorodifluoromethane	2.91	51	335524	2.733	ppbv #	63
4) Chloromethane	3.09	50	44782	0.637	ppbv	94
7) Chloroethane	3.52	64	880	0.036	ppbv #	46
9) Propene	2.97	41	57150	1.073	ppbv #	77
10) Heptane	8.12	43	82555	0.619	ppbv #	51
11) Trichlorofluoromethane	3.91	101	42749	0.272	ppbv	92
12) 1,1,2-Trichlorotrifluoroet	4.46	101	6557	0.059	ppbv #	51
13) Ethanol	3.58	45	4045856	230.175	ppbv	97
15) Acetone	3.83	43	9233824	64.961	ppbv #	63
16) 1,3-Butadiene	3.26	39	30072	0.492	ppbv #	18
17) tert-Butyl alcohol	4.28	59	75347	0.596	ppbv #	71
19) Isopropyl Alcohol	3.94	45	7225956	76.228	ppbv #	98
20) Methylene Chloride	4.31	84	630415	13.398	ppbv	94
21) Allyl Chloride	4.10	41	8168329	101.735	ppbv #	59
23) Vinyl Acetate	5.04	43	140691	0.781	ppbv #	1
25) Ethyl Acetate	5.65	43	1372808	5.750	ppbv	97
26) Hexane	5.67	57	778168	7.518	ppbv #	81
27) Carbon Disulfide	4.52	76	186043	1.525	ppbv	95
29) Chloroform	5.74	83	27078	0.160	ppbv #	83
30) Cyclohexane	7.13	84	99912	1.251	ppbv	89
31) cis-1,2-Dichloroethene	5.65	61	111365	1.103	ppbv #	25
34) 2-Butanone	5.22	43	361359	2.301	ppbv	99
36) Benzene	6.88	78	79082	0.380	ppbv	96
37) 1,2-Dichloroethane	6.30	62	32739	0.255	ppbv #	82
39) 1,2-Dichloropropane	7.61	63	10492	0.126	ppbv #	71
41) Tetrahydrofuran	6.04	42	67779	0.820	ppbv	99
43) Methyl Methacrylate	8.00	69	2853	0.032	ppbv #	1
44) 2,2,4-Trimethylpentane	7.87	57	75304	0.203	ppbv #	55
50) 4-Methyl-2-Pentanone	8.74	43	80708	0.360	ppbv #	38
51) 2-Hexanone	10.12	43	33782	0.193	ppbv #	29
52) Tetrachloroethene	11.25	164	6357	0.086	ppbv	94
53) Toluene	9.81	91	5365573	24.292	ppbv	98
58) Ethyl Benzene	12.73	91	996877	6.448	ppbv	97
59) m/p-Xylene	12.98	91	1383003	10.167	ppbv #	58
60) o-Xylene	13.71	91	495114	3.689	ppbv	100
61) Styrene	13.55	104	681943	8.028	ppbv	99
62) Isopropylbenzene	14.68	105	22465	0.112	ppbv #	49
64) n-propylbenzene	15.78	120	3029	0.059	ppbv	87
69) p-Isopropyltoluene	17.68	119	9161	0.046	ppbv #	14
71) 2-Chlorotoluene	15.58	91	20882	0.138	ppbv #	50

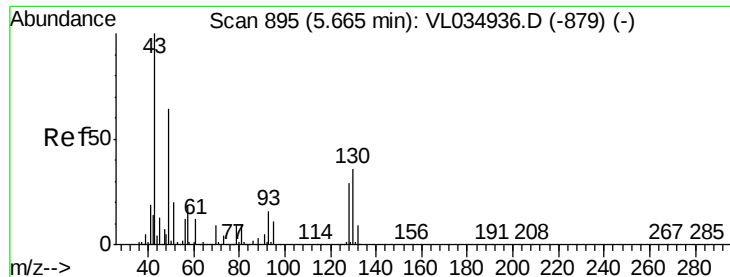
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052220\
Data File : VL035084.D
Acq On : 22 May 2020 14:45
Operator : SY/AP
Sample : L2739-01DUP
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: May 22 23:14:20 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 06 14:49:39 2020
QLast Update : Wed May 06 14:49:39 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 4-Ethyltoluene	15.86	105	15121	0.101	ppbv #	46
73) 1,3,5-Trimethylbenzene	16.02	105	15983	0.110	ppbv #	80
74) 1,2,4-Trimethylbenzene	16.79	105	68476	0.430	ppbv #	77
76) 1,4-Dichlorobenzene	17.16	146	3428	0.039	ppbv #	1
80) Naphthalene,2-methyl-	25.02	142	1255	0.041	ppbv #	74

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.02 min

Lab File: VL035084.D

Acq: 22 May 2020 14:45

Instrument :

MSVOA_L

ClientSampleId :

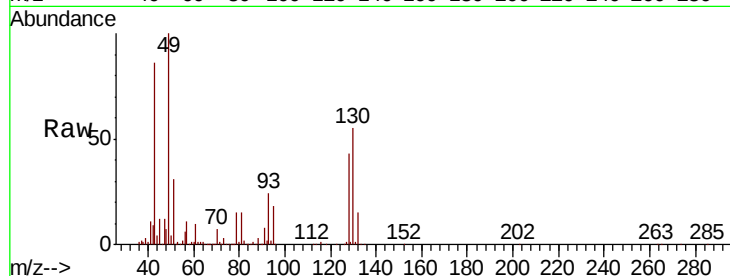
Tot Ion: 49 Resp: 1075183

Ion Ratio Lower Upper

49 100

128 45.9 22.1 66.5

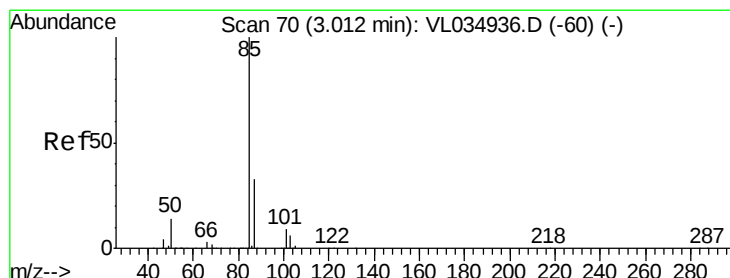
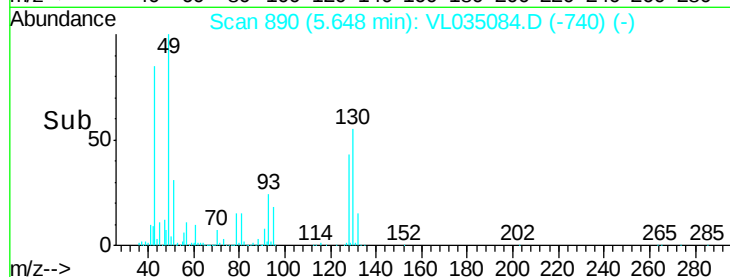
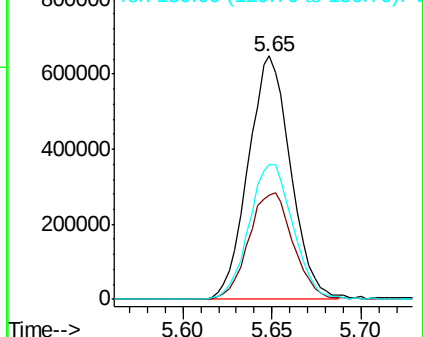
130 58.2 29.1 87.3



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: 0.197 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL035084.D

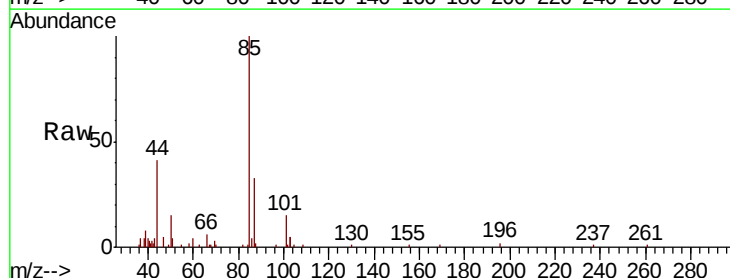
Acq: 22 May 2020 14:45

Tgt Ion: 85 Resp: 30089

Ion Ratio Lower Upper

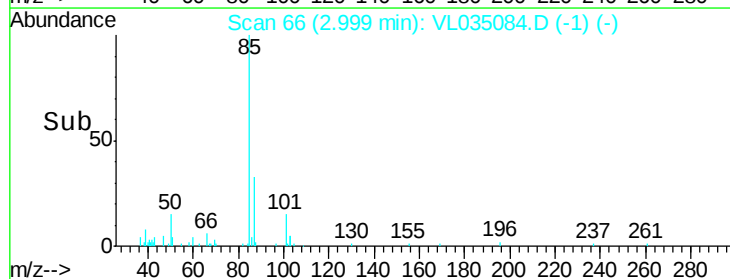
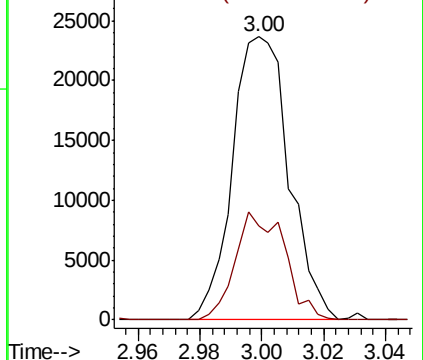
85 100

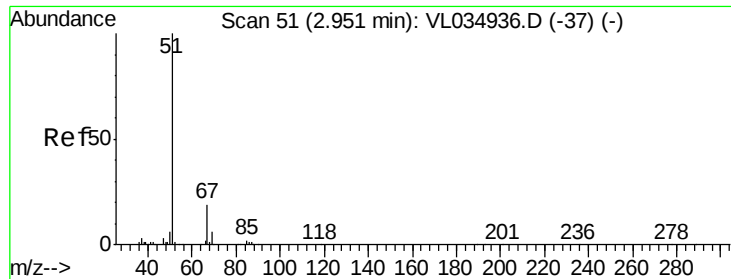
87 33.1 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 2.733 ppbv

RT: 2.91 min Scan# 39

Delta R.T. -0.04 min

Lab File: VL035084.D

Acq: 22 May 2020 14:45

Instrument :

MSVOA_L

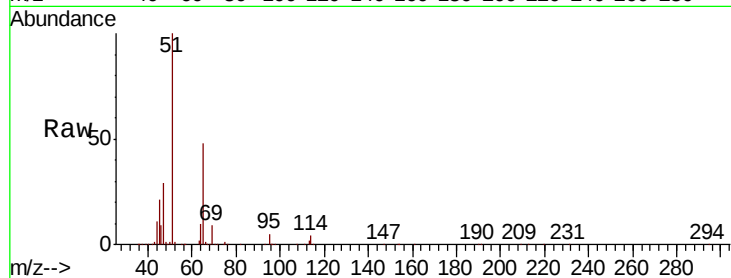
ClientSampled :

Tot Ion: 51 Resp: 33524

Ion Ratio Lower Upper

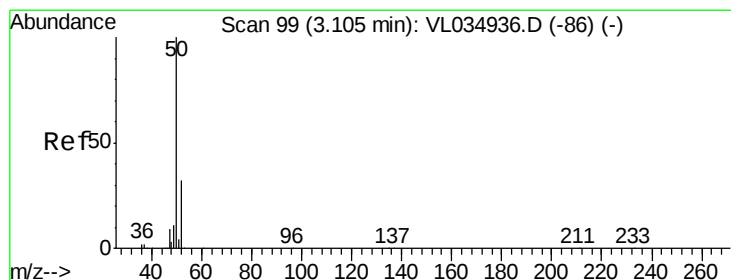
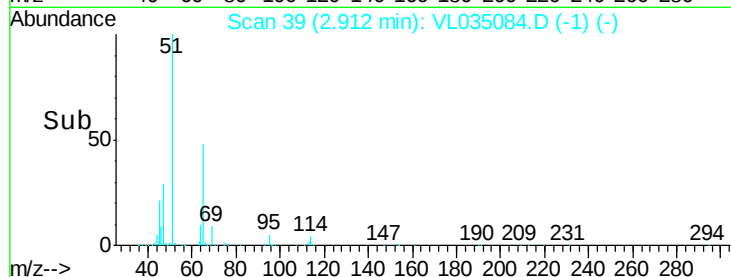
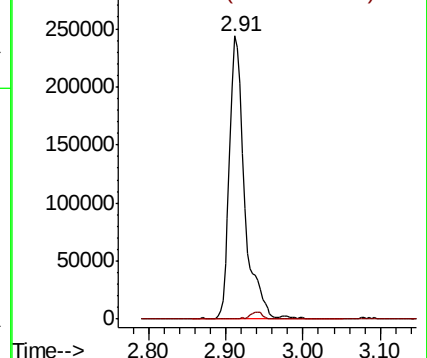
51 100

67 2.1 15.0 22.6#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.637 ppbv

RT: 3.09 min Scan# 95

Delta R.T. -0.01 min

Lab File: VL035084.D

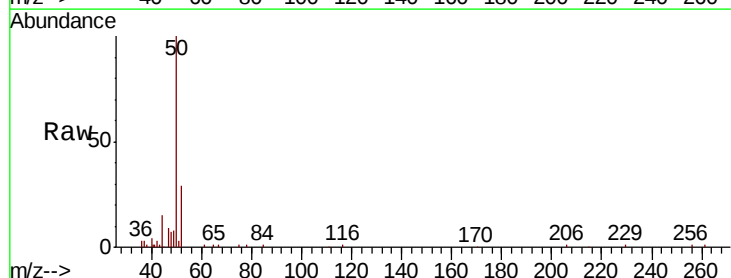
Acq: 22 May 2020 14:45

Tgt Ion: 50 Resp: 44782

Ion Ratio Lower Upper

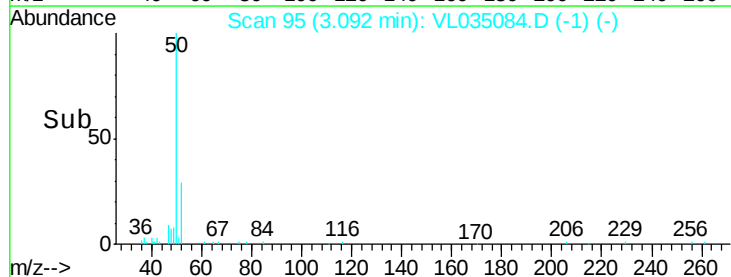
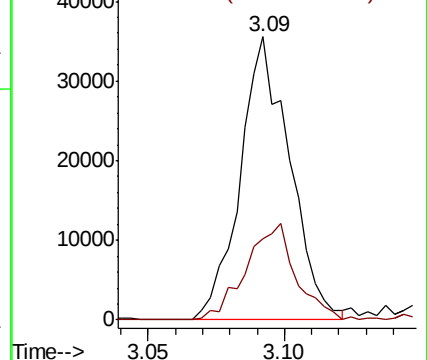
50 100

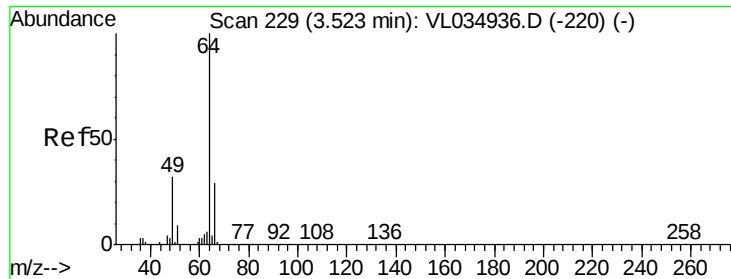
52 28.6 25.4 38.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 0.036 ppbv

RT: 3.52 min Scan# 227

Delta R.T. -0.01 min

Lab File: VL035084.D

Acq: 22 May 2020 14:45

Instrument :

MSVOA_L

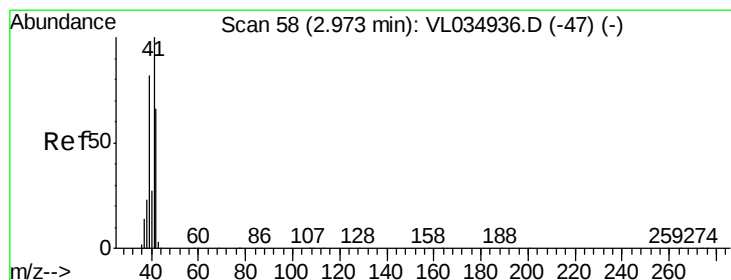
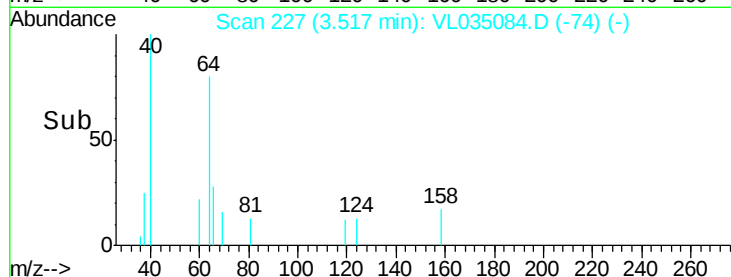
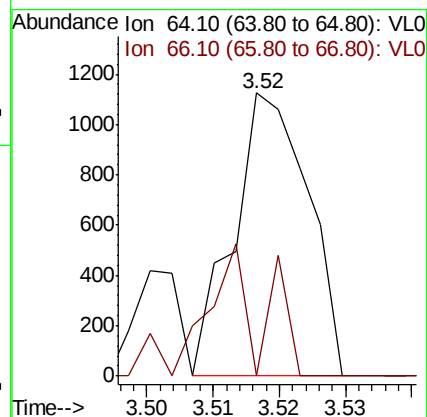
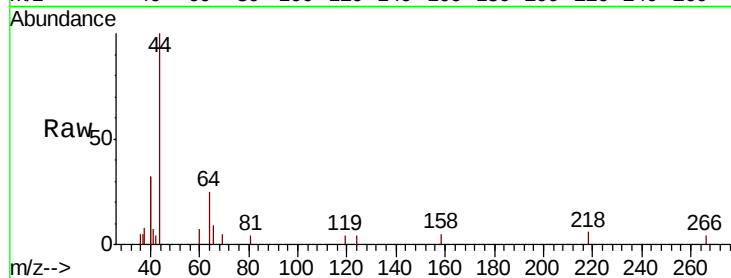
ClientSampleId :

Tot Ion: 64 Resp: 880

Ion Ratio Lower Upper

64 100

66 0.0 23.2 34.8#



#9

Propene

Concen: 1.073 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.00 min

Lab File: VL035084.D

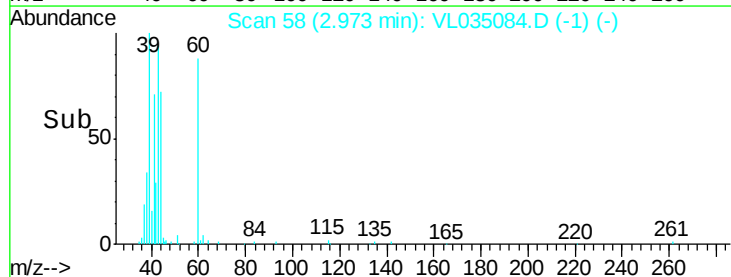
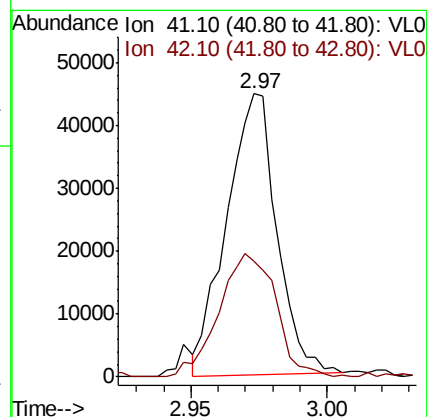
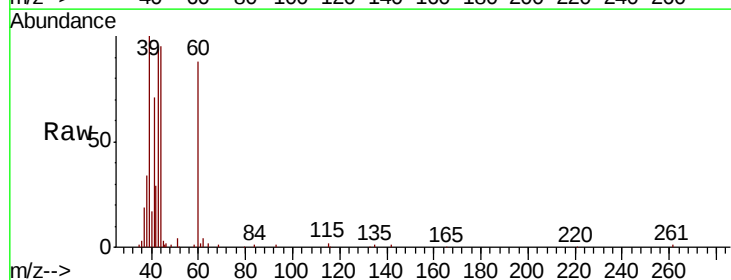
Acq: 22 May 2020 14:45

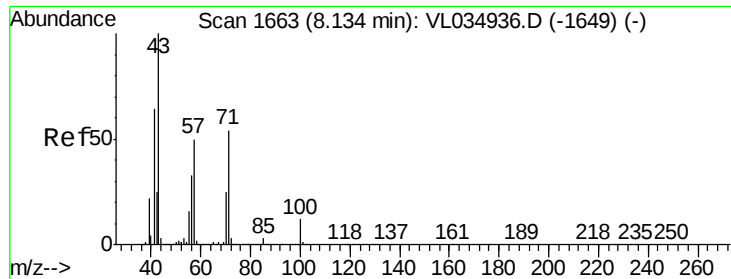
Tgt Ion: 41 Resp: 57150

Ion Ratio Lower Upper

41 100

42 49.7 54.5 81.7#





#10

Heptane

Concen: 0.619 ppbv

RT: 8.12 min Scan# 1659

Delta R.T. -0.01 min

Lab File: VL035084.D

Acq: 22 May 2020 14:45

Instrument :

MSVOA_L

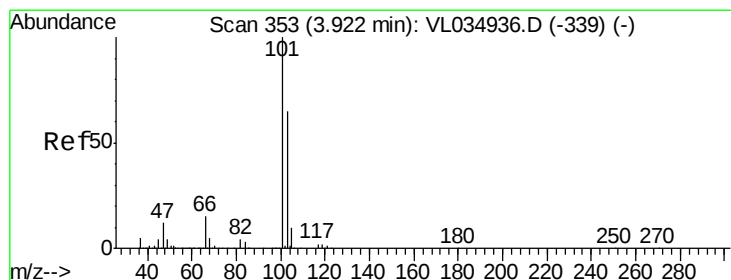
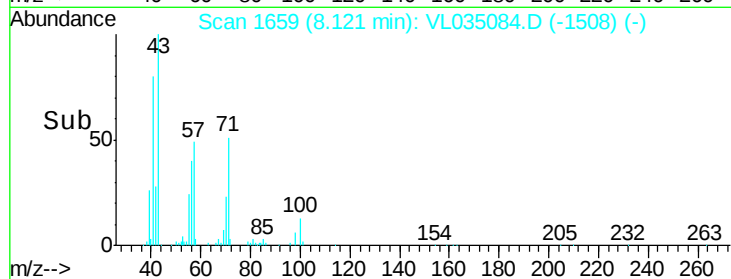
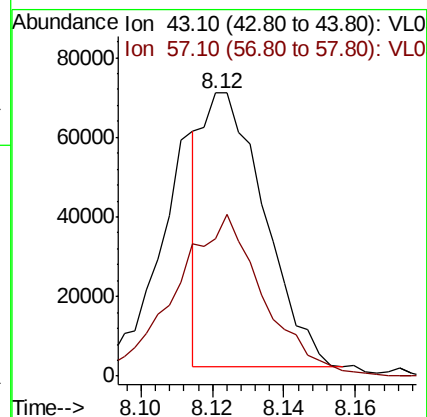
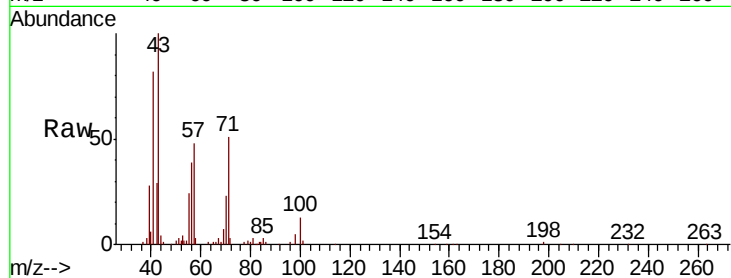
ClientSampleId :

Tot Ion: 43 Resp: 82555

Ion Ratio Lower Upper

43 100

57 85.5 41.1 61.7#



#11

Trichlorofluoromethane

Concen: 0.272 ppbv

RT: 3.91 min Scan# 350

Delta R.T. -0.01 min

Lab File: VL035084.D

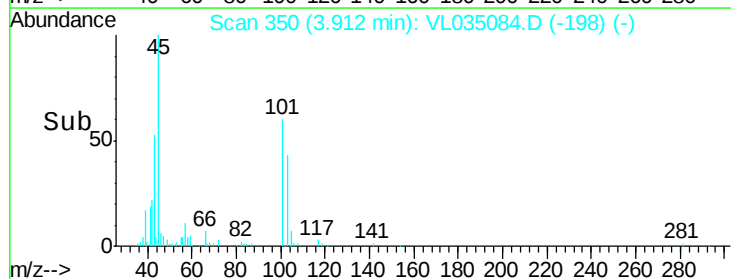
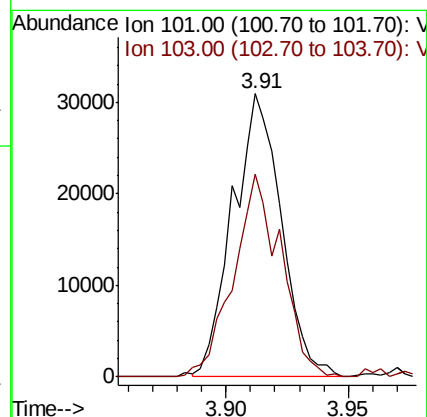
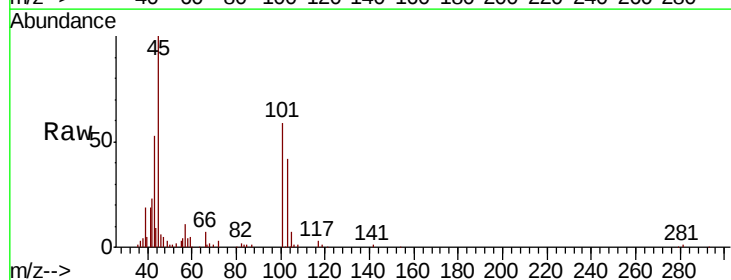
Acq: 22 May 2020 14:45

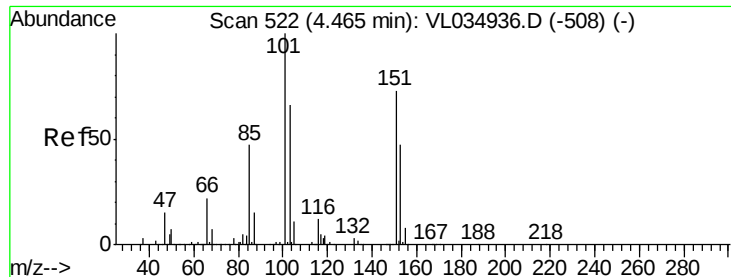
Tgt Ion: 101 Resp: 42749

Ion Ratio Lower Upper

101 100

103 71.6 51.9 77.9





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.059 ppbv

RT: 4.46 min Scan# 519

Delta R.T. -0.01 min

Lab File: VL035084.D

Acq: 22 May 2020 14:45

Instrument :

MSVOA_L

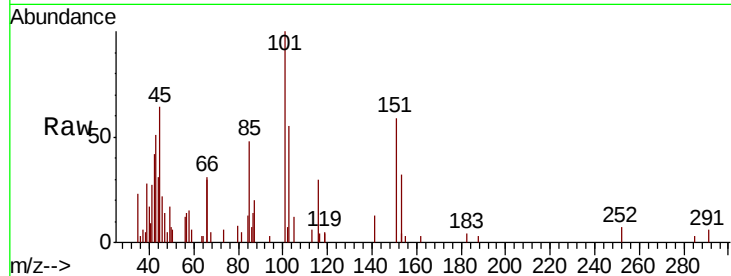
ClientSampleId :

Tot Ion:101 Resp: 6557

Ion Ratio Lower Upper

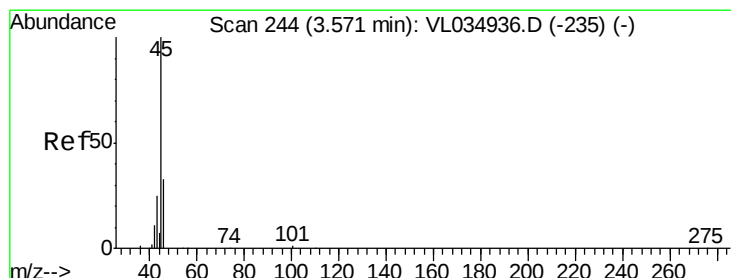
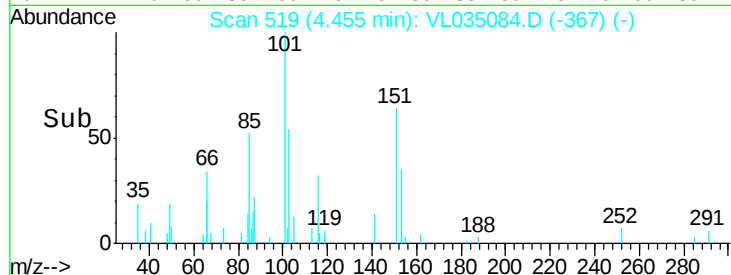
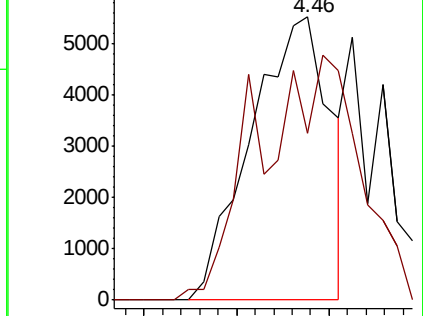
101 100

151 112.6 57.6 86.4#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 230.175 ppbv

RT: 3.58 min Scan# 246

Delta R.T. 0.01 min

Lab File: VL035084.D

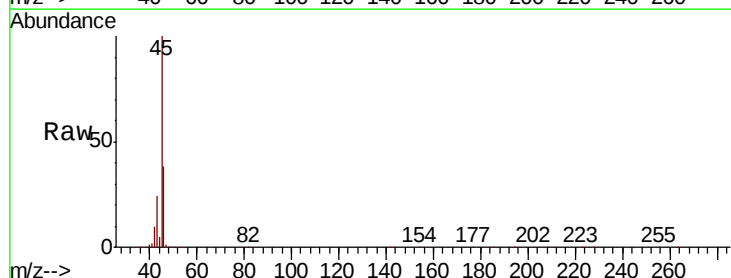
Acq: 22 May 2020 14:45

Tgt Ion: 45 Resp: 4045856

Ion Ratio Lower Upper

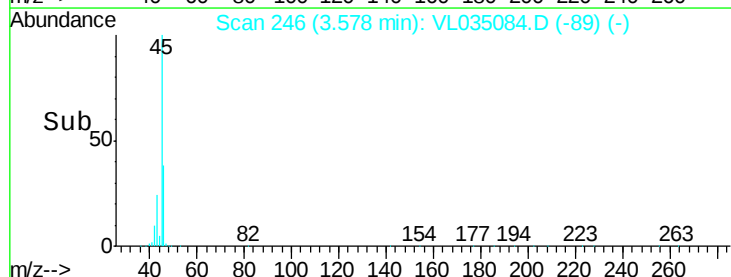
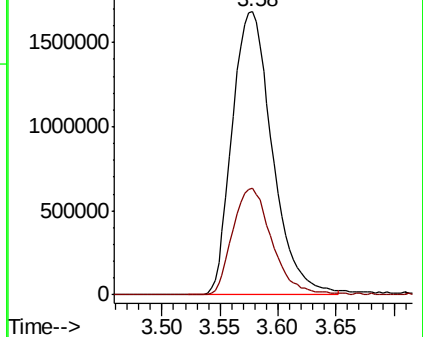
45 100

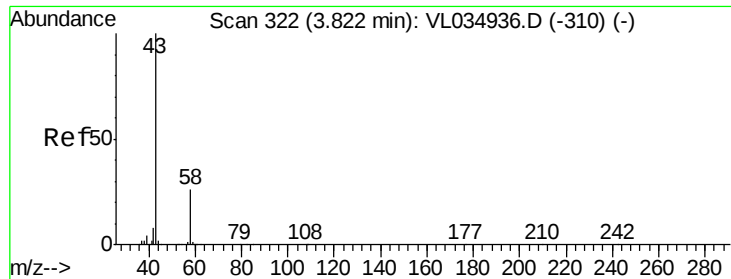
46 37.4 14.3 57.3



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 64.961 ppbv

RT: 3.83 min Scan# 326

Delta R.T. 0.01 min

Lab File: VL035084.D

Acq: 22 May 2020 14:45

Instrument :

MSVOA_L

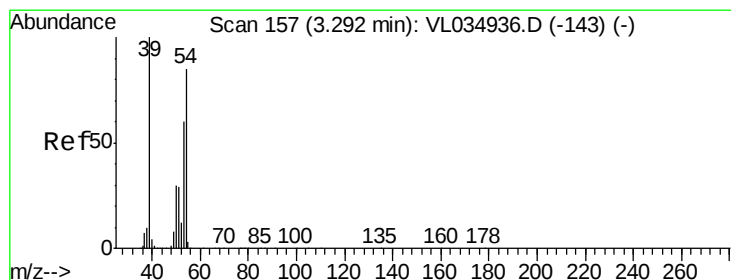
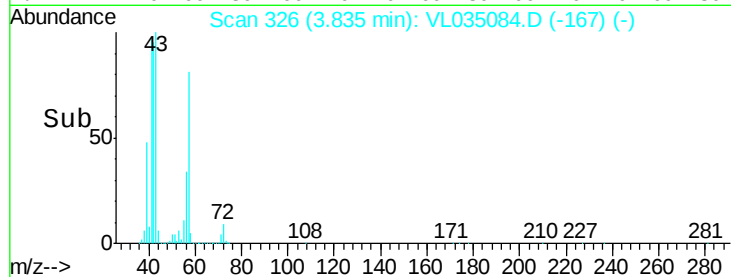
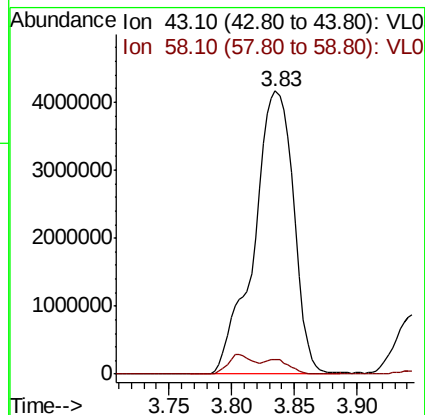
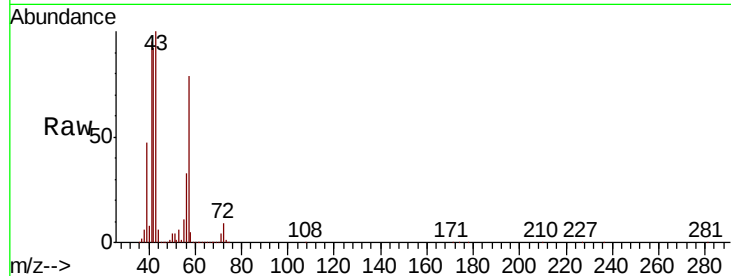
ClientSampleId :

Tot Ion: 43 Resp: 9233824

Ion Ratio Lower Upper

43 100

58 7.8 21.7 32.5#



#16

1,3-Butadiene

Concen: 0.492 ppbv

RT: 3.26 min Scan# 146

Delta R.T. -0.04 min

Lab File: VL035084.D

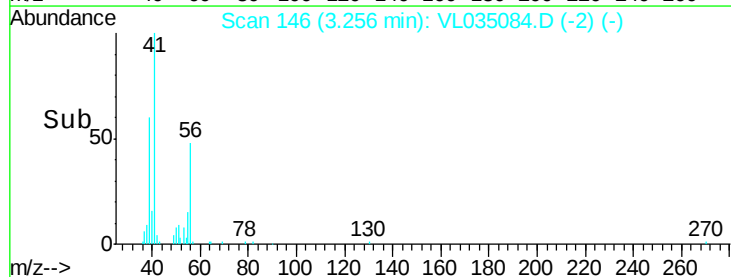
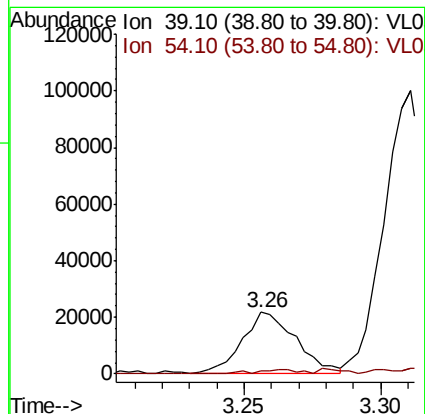
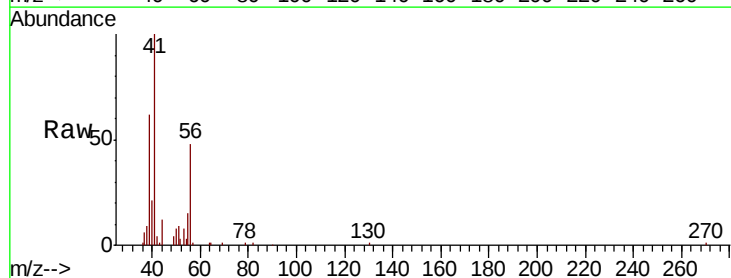
Acq: 22 May 2020 14:45

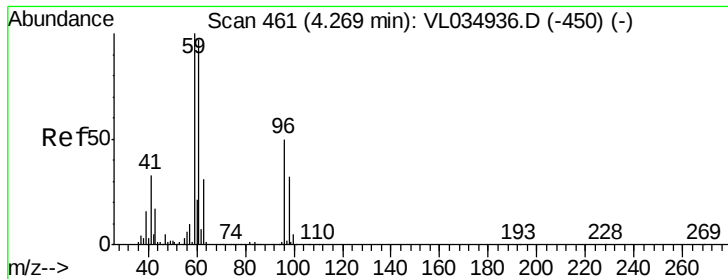
Tgt Ion: 39 Resp: 30072

Ion Ratio Lower Upper

39 100

54 9.2 66.6 100.0#



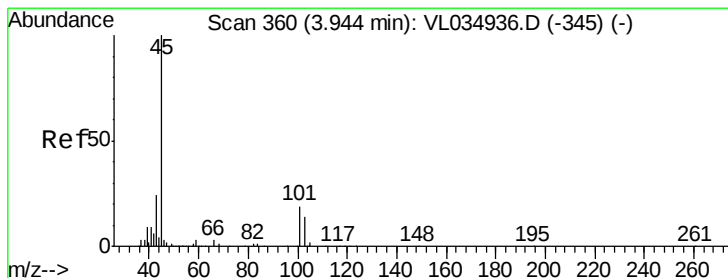
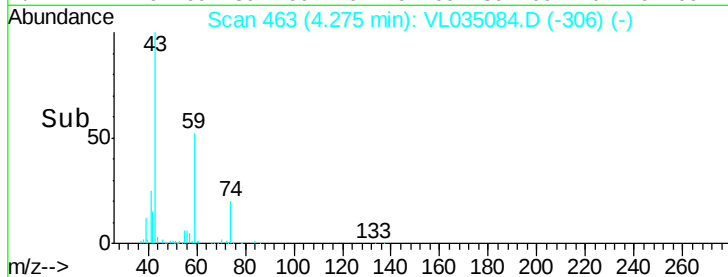
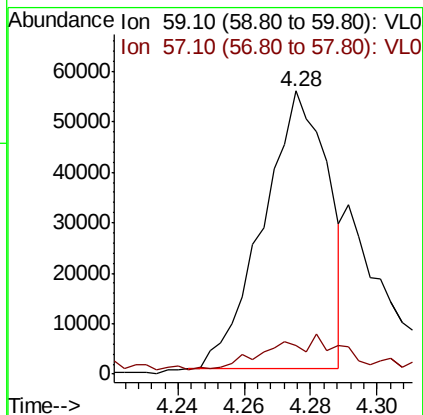
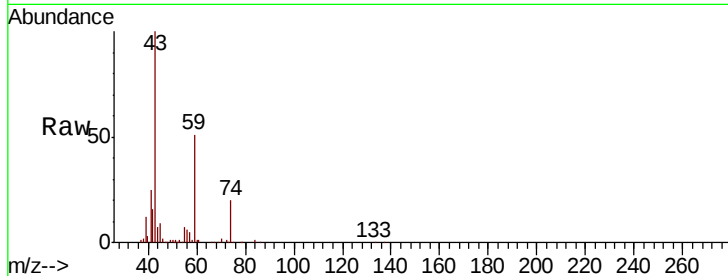


#17

tert-Butyl alcohol
 Concen: 0.596 ppbv
 RT: 4.28 min Scan# 463
 Delta R.T. 0.01 min
 Lab File: VL035084.D
 Acq: 22 May 2020 14:45

Instrument :
 MSVOA_L
 ClientSampleID :

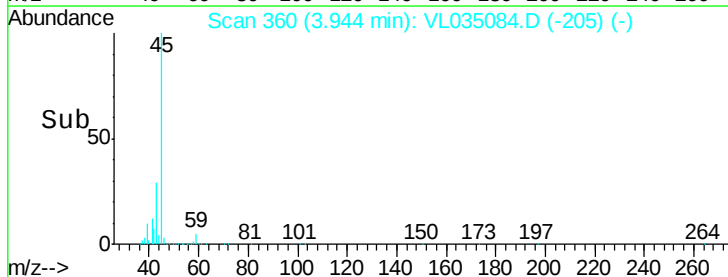
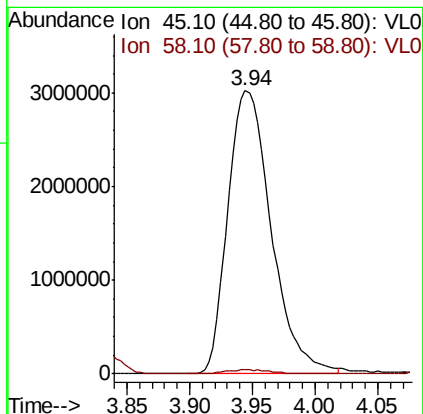
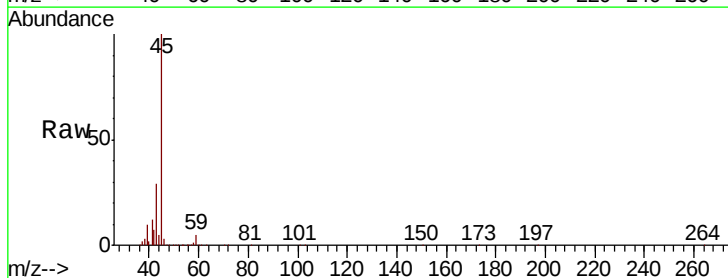
Tot Ion: 59 Resp: 75347
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.7 13.1#

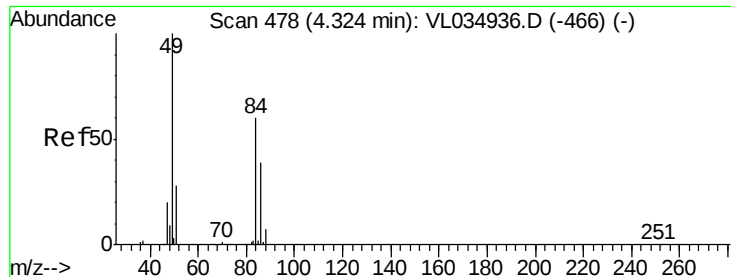


#19

Isopropyl Alcohol
 Concen: 76.228 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. -0.00 min
 Lab File: VL035084.D
 Acq: 22 May 2020 14:45

Tgt Ion: 45 Resp: 7225956
 Ion Ratio Lower Upper
 45 100
 58 1.6 1.7 2.5#

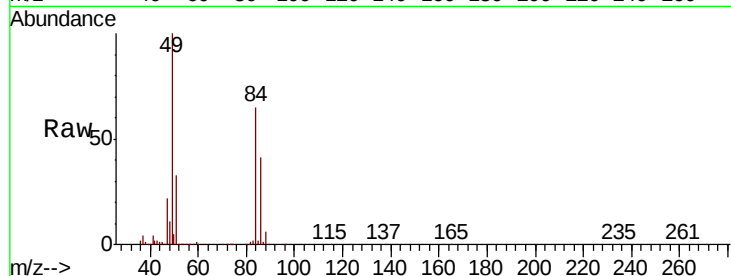




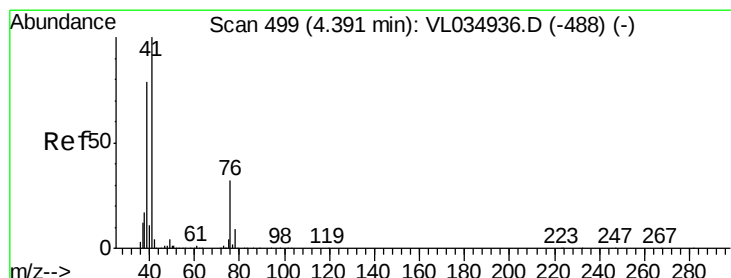
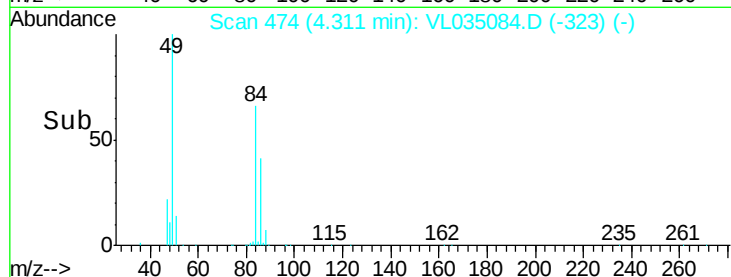
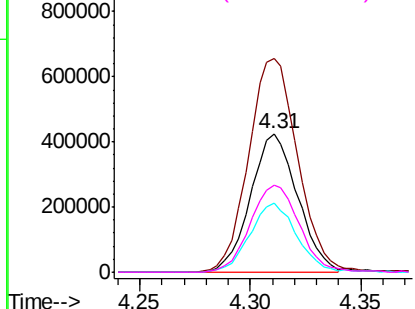
#20
Methylene Chloride
Concen: 13.398 ppbv
RT: 4.31 min Scan# 474
Delta R.T. -0.01 min
Lab File: VL035084.D
Acq: 22 May 2020 14:45

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 84 Resp: 630415
Ion Ratio Lower Upper
84 100
49 153.6 132.5 198.7
51 50.0 38.4 57.6
86 62.7 51.2 76.8

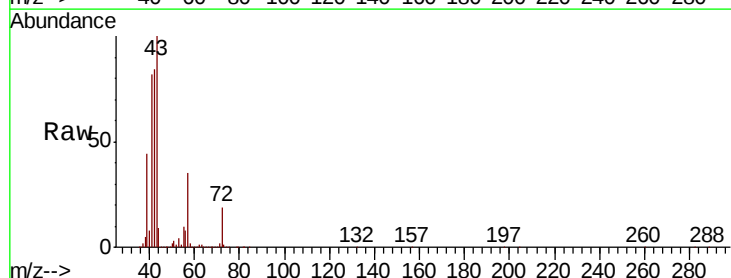


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

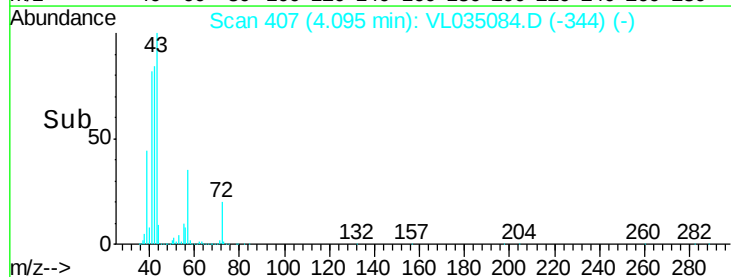
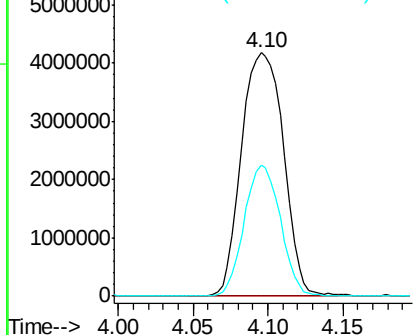


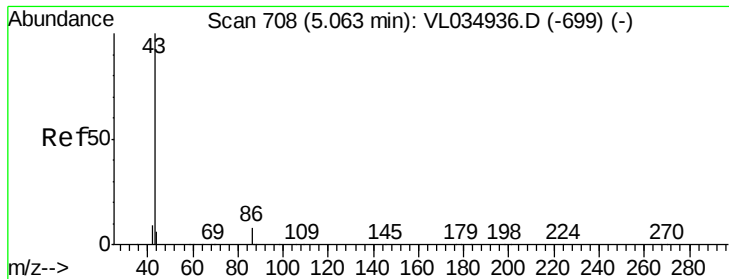
#21
Allyl Chloride
Concen: 101.735 ppbv
RT: 4.10 min Scan# 407
Delta R.T. -0.30 min
Lab File: VL035084.D
Acq: 22 May 2020 14:45

Tgt Ion: 41 Resp: 8168329
Ion Ratio Lower Upper
41 100
76 0.0 23.6 35.4#
39 46.6 61.9 92.9#



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0





#23

Vinyl Acetate

Concen: 0.781 ppbv

RT: 5.04 min Scan# 700

Delta R.T. -0.03 min

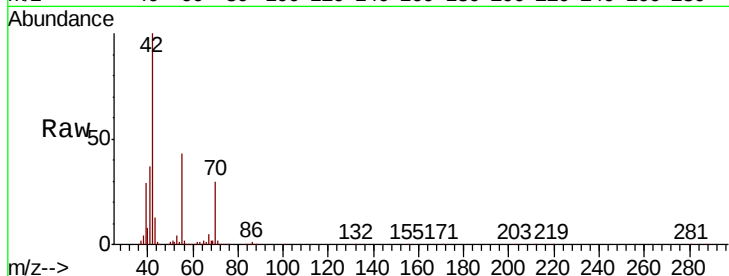
Lab File: VL035084.D

Acq: 22 May 2020 14:45

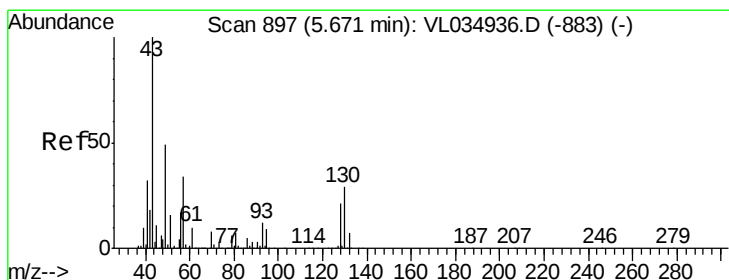
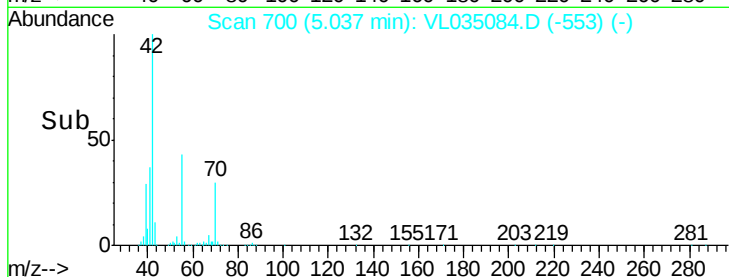
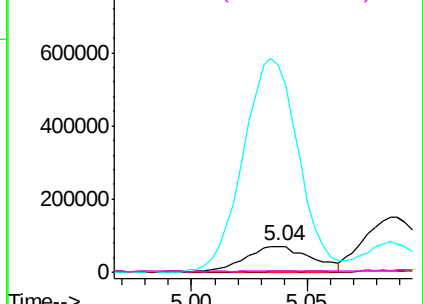
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 140691

Ion	Ratio	Lower	Upper
43	100		
86	5.3	5.5	8.3#
42	793.7	8.0	12.0#
44	3.0	4.5	6.7#



Abundance Ion 43.10 (42.80 to 43.80): VL0



#25

Ethyl Acetate

Concen: 5.750 ppbv

RT: 5.65 min Scan# 892

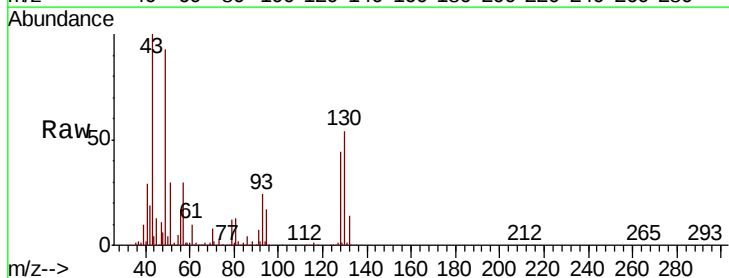
Delta R.T. -0.02 min

Lab File: VL035084.D

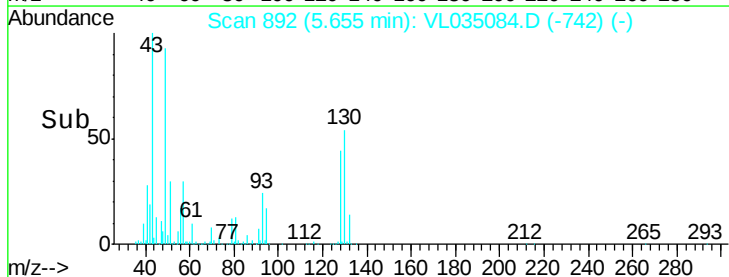
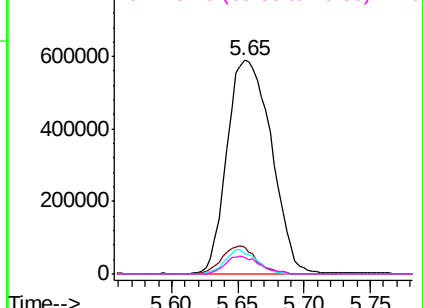
Acq: 22 May 2020 14:45

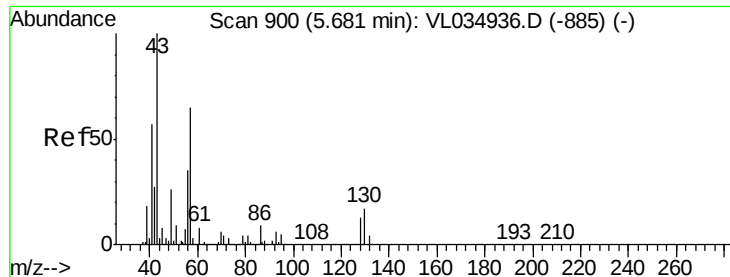
Tgt Ion: 43 Resp: 1372808

Ion	Ratio	Lower	Upper
43	100		
45	10.5	8.1	12.1
61	8.2	7.8	11.8
70	6.7	6.0	9.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

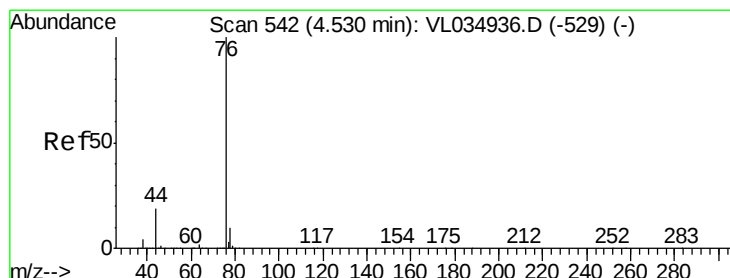
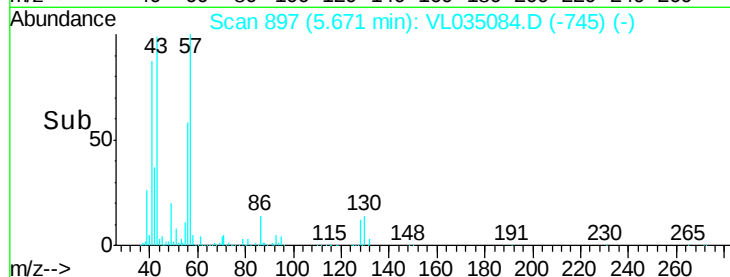
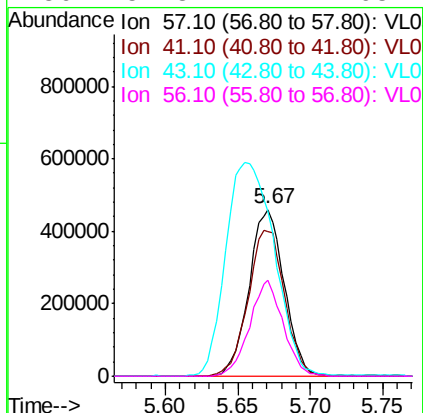
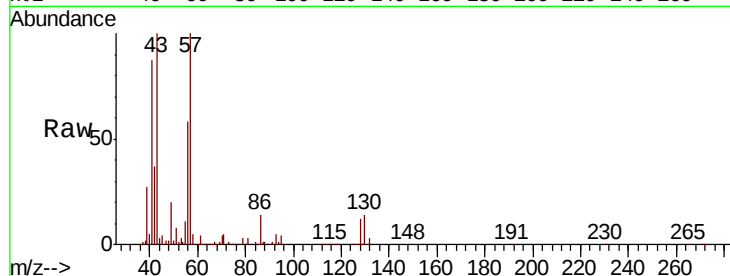




#26
Hexane
Concen: 7.518 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.01 min
Lab File: VL035084.D
Acq: 22 May 2020 14:45

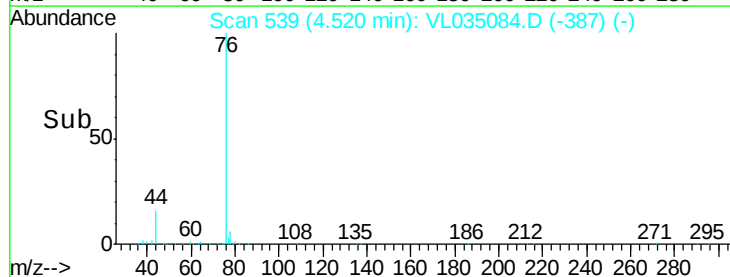
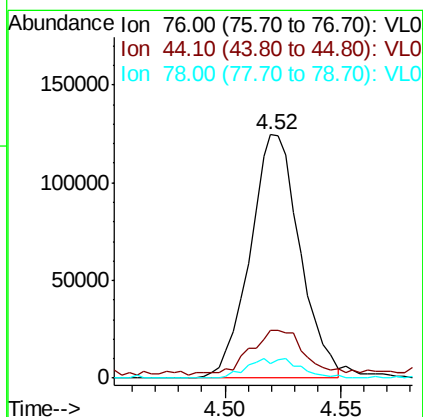
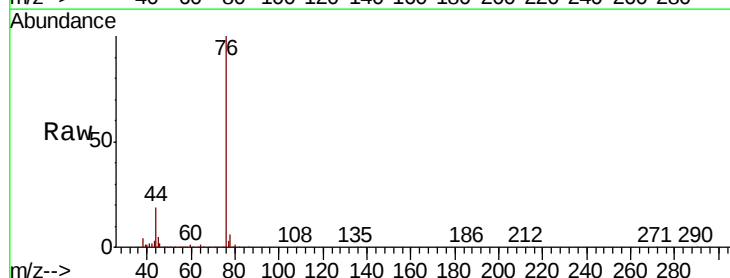
Instrument :
MSVOA_L
ClientSampleId :

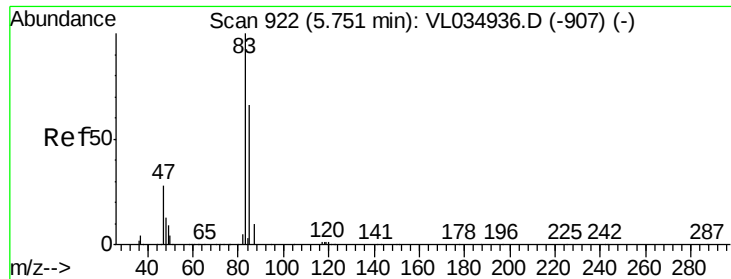
Tot Ion: 57 Resp: 778168
Ion Ratio Lower Upper
57 100
41 90.9 72.7 109.1
43 176.6 182.1 273.1#
56 54.8 42.2 63.2



#27
Carbon Disulfide
Concen: 1.525 ppbv
RT: 4.52 min Scan# 539
Delta R.T. -0.01 min
Lab File: VL035084.D
Acq: 22 May 2020 14:45

Tgt Ion: 76 Resp: 186043
Ion Ratio Lower Upper
76 100
44 21.8 15.2 22.8
78 8.7 7.7 11.5





#29

Chloroform

Concen: 0.160 ppbv

RT: 5.74 min Scan# 917

Delta R.T. -0.02 min

Lab File: VL035084.D

Acq: 22 May 2020 14:45

Instrument :

MSVOA_L

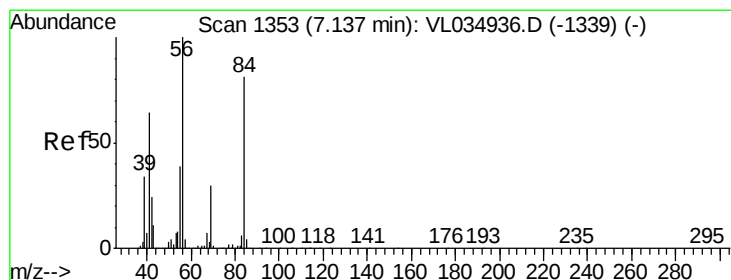
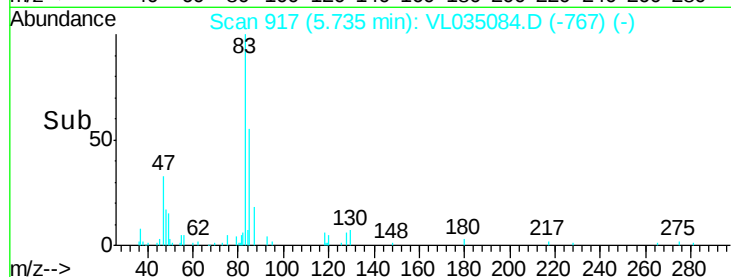
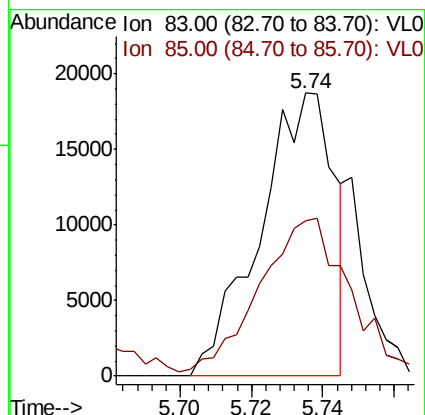
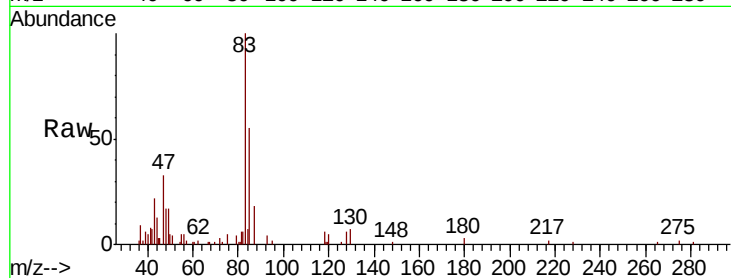
ClientSampleId :

Tot Ion: 83 Resp: 27078

Ion Ratio Lower Upper

83 100

85 52.4 53.0 79.6#



#30

Cyclohexane

Concen: 1.251 ppbv

RT: 7.13 min Scan# 1350

Delta R.T. -0.01 min

Lab File: VL035084.D

Acq: 22 May 2020 14:45

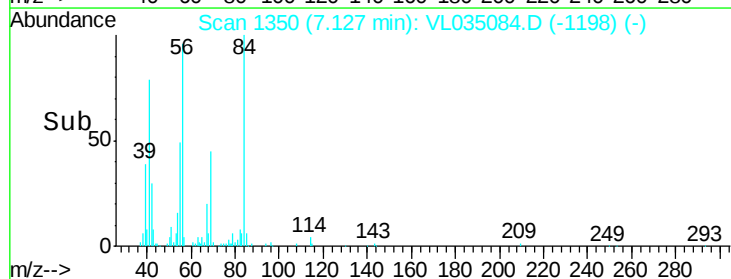
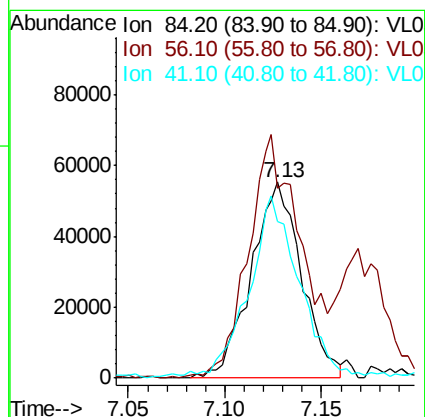
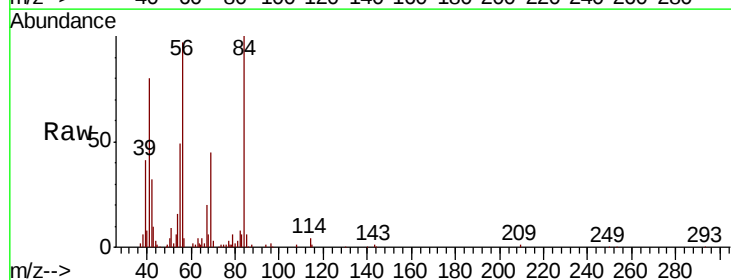
Tgt Ion: 84 Resp: 99912

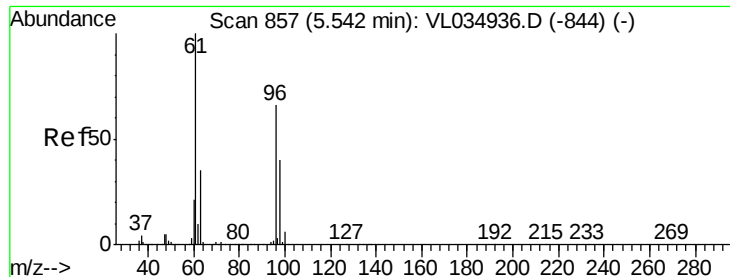
Ion Ratio Lower Upper

84 100

56 125.8 111.4 167.2

41 92.3 66.7 100.1



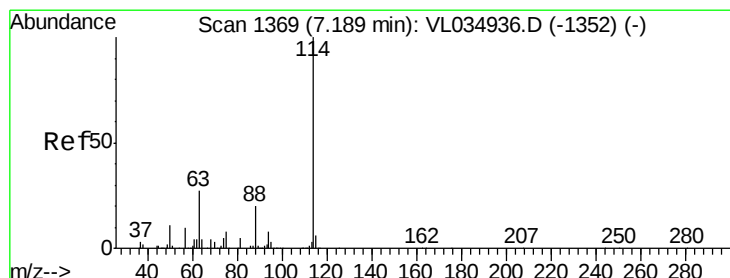
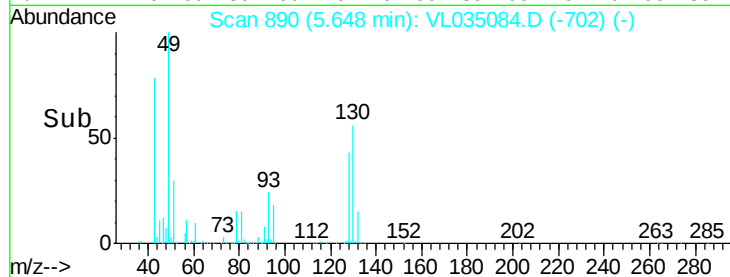
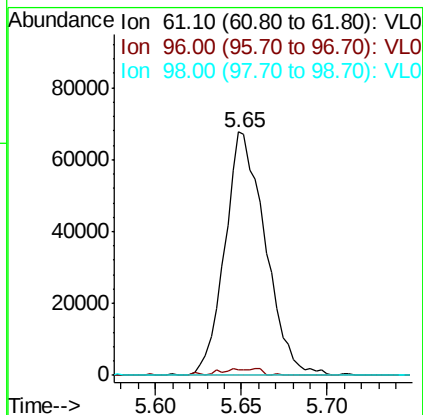
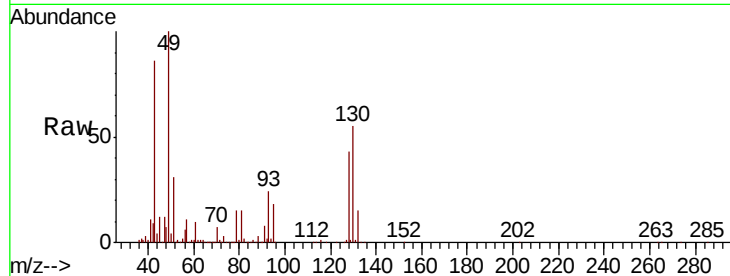


#31

cis-1,2-Dichloroethene
 Concen: 1.103 ppbv
 RT: 5.65 min Scan# 890
 Delta R.T. 0.11 min
 Lab File: VL035084.D
 Acq: 22 May 2020 14:45

Instrument :
 MSVOA_L
 ClientSampleId :

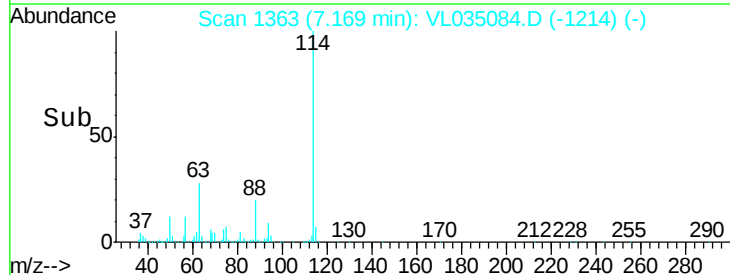
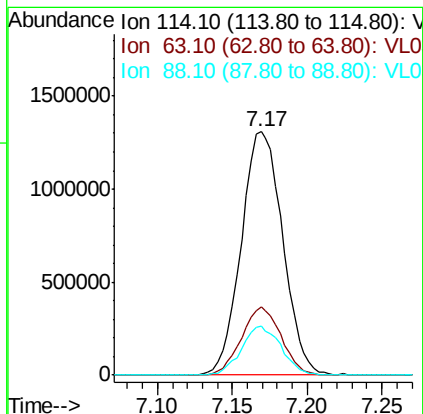
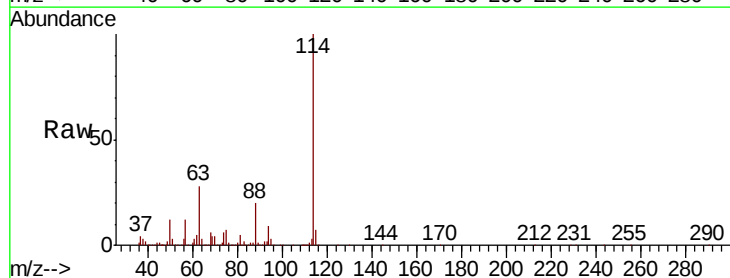
Tot Ion	Ratio	Lower	Upper
61	100		
96	2.2	53.0	79.6#
98	0.0	32.2	48.2#

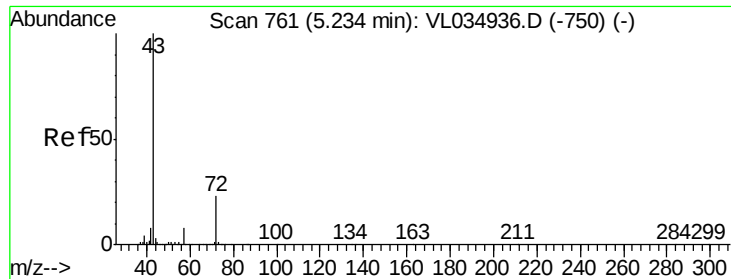


#33

1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.02 min
 Lab File: VL035084.D
 Acq: 22 May 2020 14:45

Tgt Ion	Ratio	Lower	Upper
114	100		
63	27.1	22.2	33.4
88	19.2	15.5	23.3

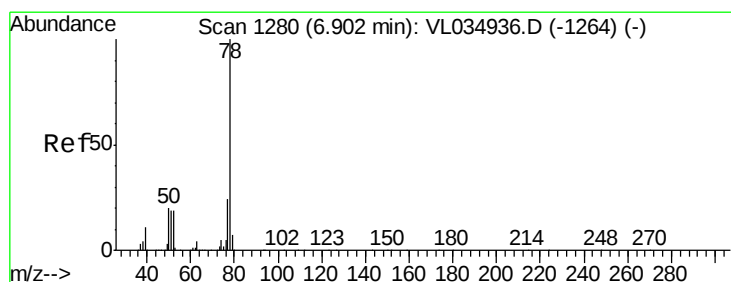
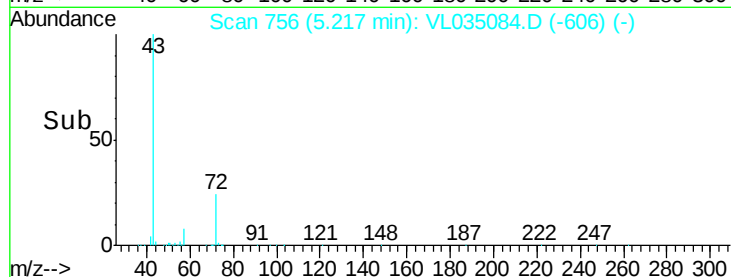
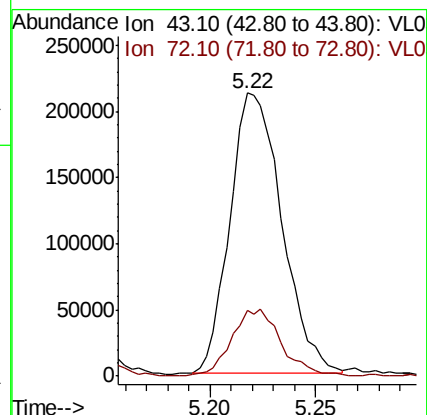
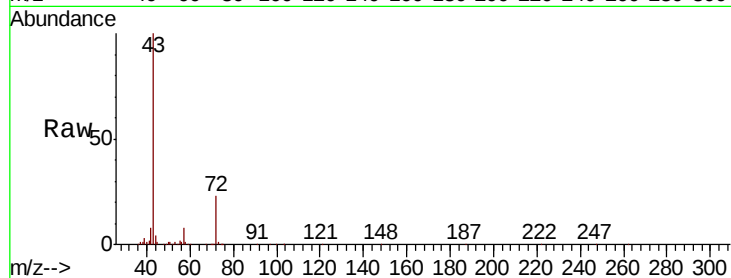




#34
2-Butanone
Concen: 2.301 ppbv
RT: 5.22 min Scan# 756
Delta R.T. -0.02 min
Lab File: VL035084.D
Acq: 22 May 2020 14:45

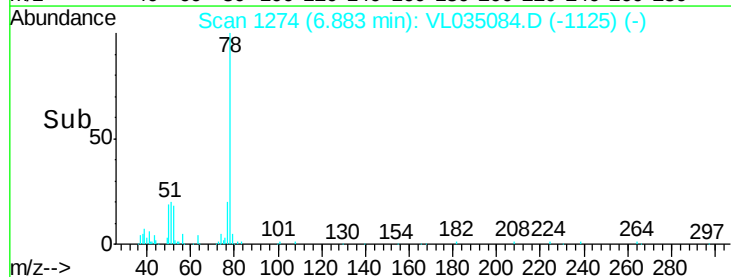
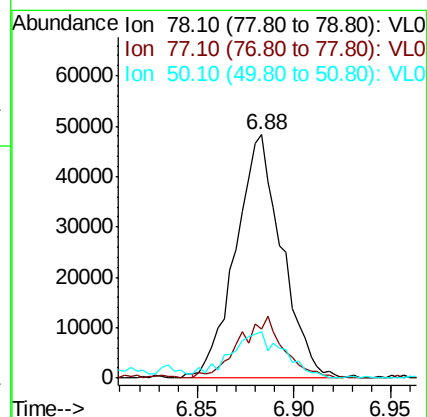
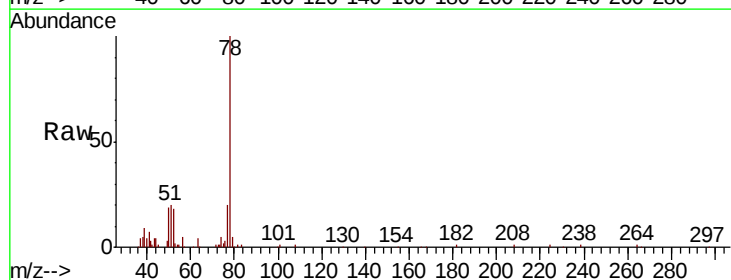
Instrument :
MSVOA_L
ClientSampleId :

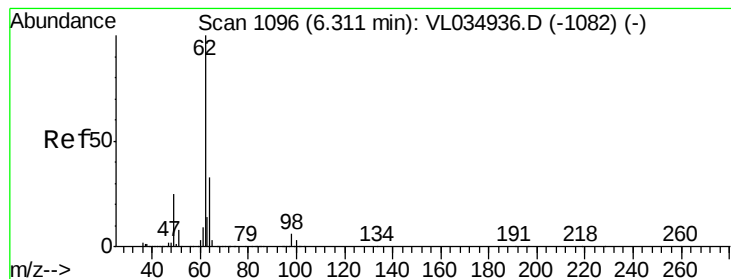
Tot Ion: 43 Resp: 361359
Ion Ratio Lower Upper
43 100
72 23.2 18.0 27.0



#36
Benzene
Concen: 0.380 ppbv
RT: 6.88 min Scan# 1274
Delta R.T. -0.02 min
Lab File: VL035084.D
Acq: 22 May 2020 14:45

Tgt Ion: 78 Resp: 79082
Ion Ratio Lower Upper
78 100
77 20.3 19.0 28.6
50 19.2 15.8 23.8





#37

1,2-Dichloroethane

Concen: 0.255 ppbv

RT: 6.30 min Scan# 1092

Delta R.T. -0.01 min

Lab File: VL035084.D

Acq: 22 May 2020 14:45

Instrument :

MSVOA_L

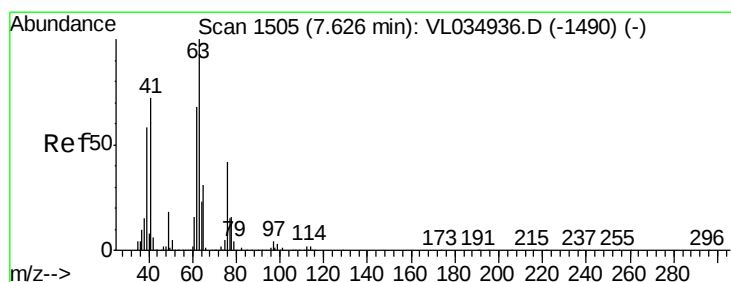
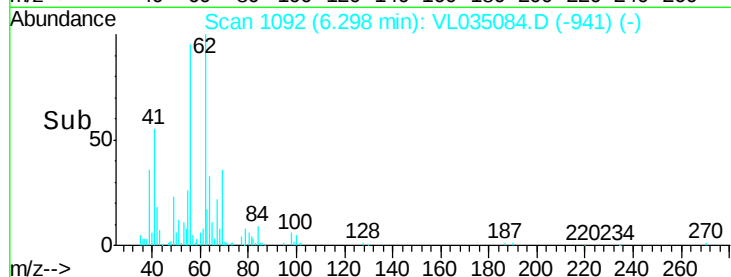
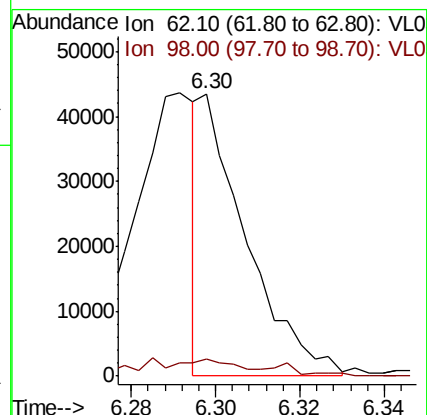
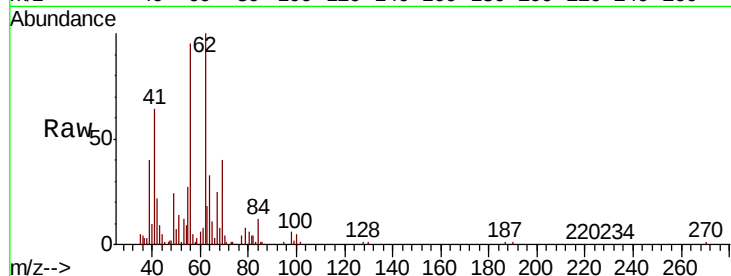
ClientSampleId :

Tot Ion: 62 Resp: 32739

Ion Ratio Lower Upper

62 100

98 0.0 4.8 7.2#



#39

1,2-Dichloropropane

Concen: 0.126 ppbv

RT: 7.61 min Scan# 1500

Delta R.T. -0.02 min

Lab File: VL035084.D

Acq: 22 May 2020 14:45

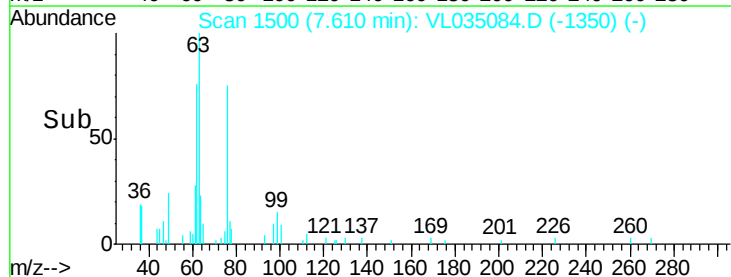
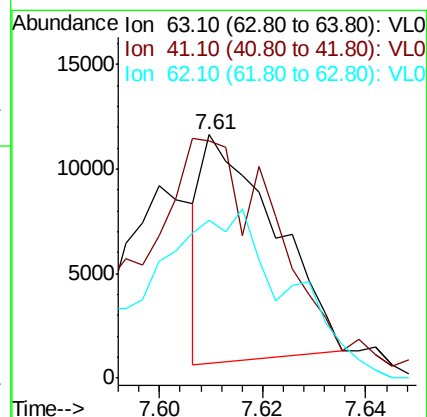
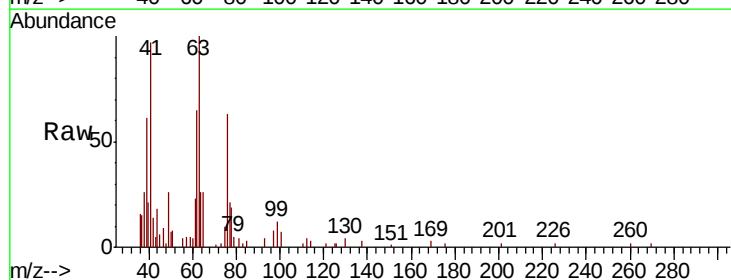
Tgt Ion: 63 Resp: 10492

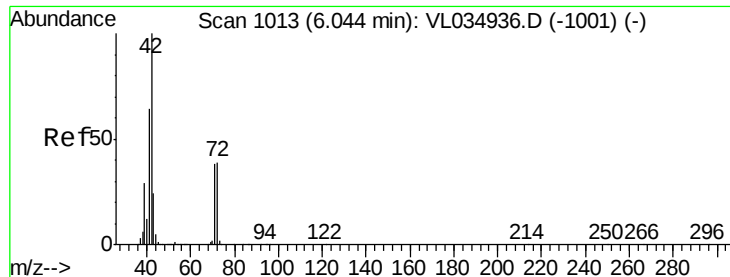
Ion Ratio Lower Upper

63 100

41 96.9 57.8 86.8#

62 45.2 54.2 81.2#





#41

Tetrahydrofuran

Concen: 0.820 ppbv

RT: 6.04 min Scan# 1012

Delta R.T. -0.00 min

Lab File: VL035084.D

Acq: 22 May 2020 14:45

Instrument :

MSVOA_L

ClientSampled :

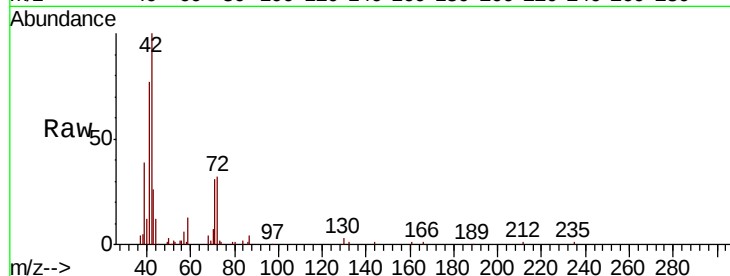
Tot Ion: 42 Resp: 67779

Ion Ratio Lower Upper

42 100

72 39.6 31.4 47.0

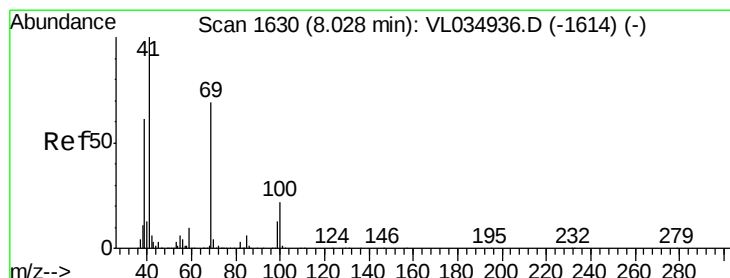
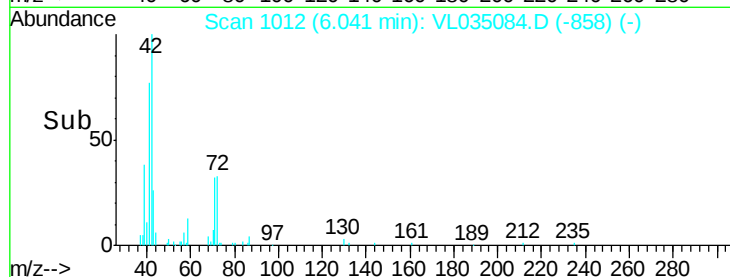
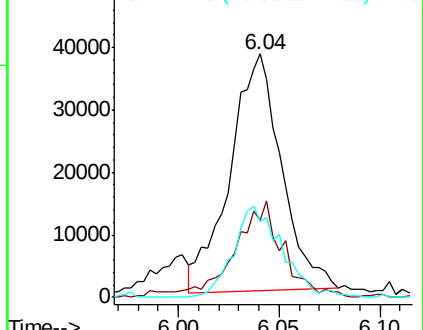
71 36.5 29.8 44.8



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



#43

Methyl Methacrylate

Concen: 0.032 ppbv

RT: 8.00 min Scan# 1621

Delta R.T. -0.03 min

Lab File: VL035084.D

Acq: 22 May 2020 14:45

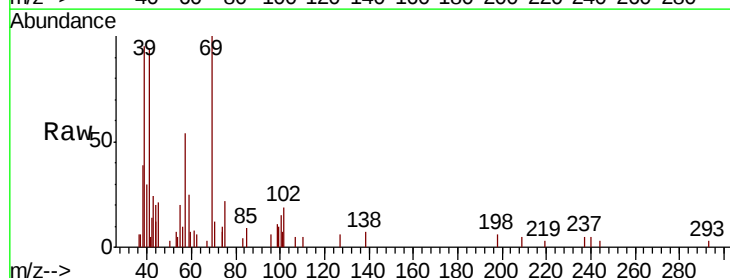
Tgt Ion: 69 Resp: 2853

Ion Ratio Lower Upper

69 100

41 0.0 119.8 179.6#

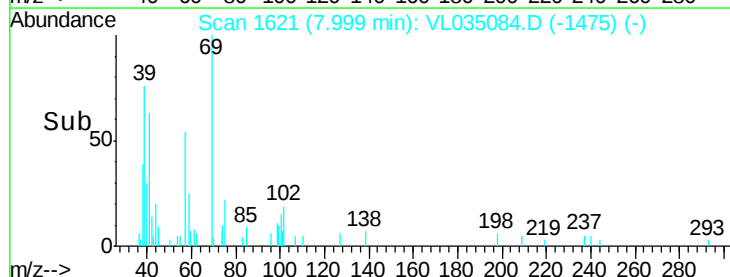
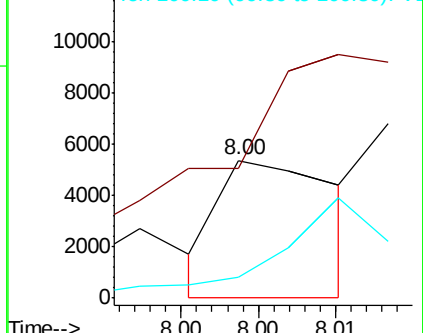
100 172.3 25.0 37.6#

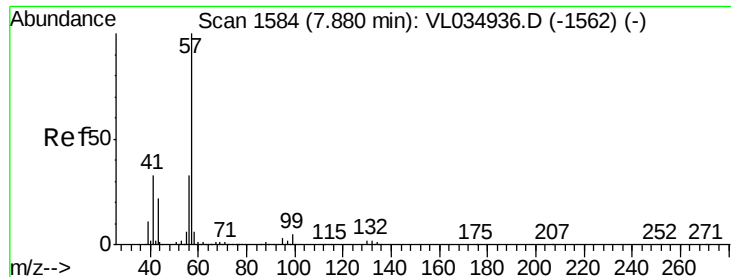


Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0

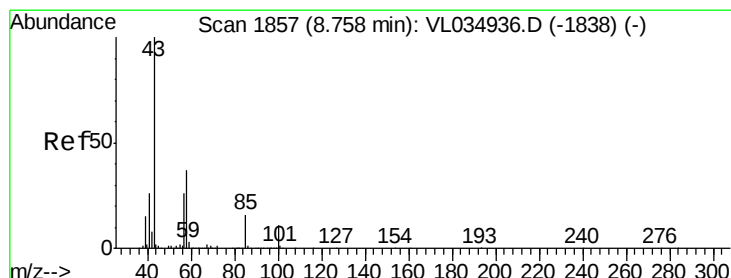
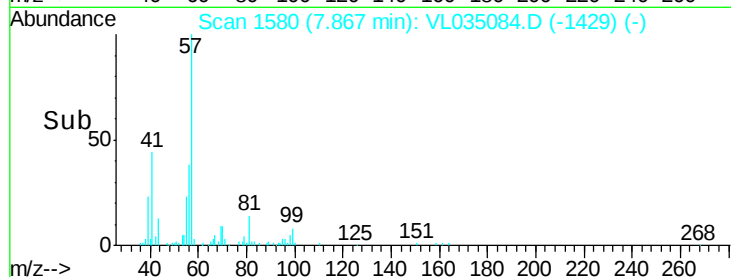
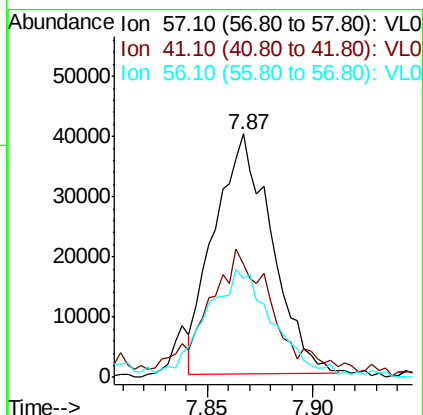
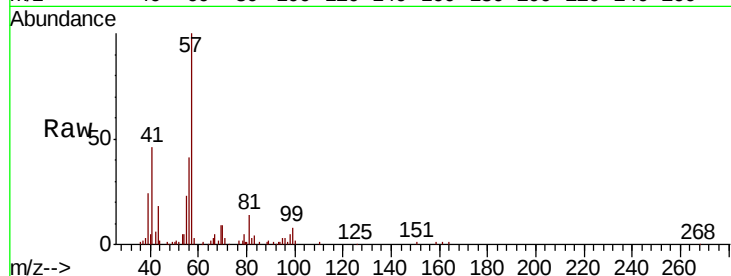




#44
 2,2,4-Trimethylpentane
 Concen: 0.203 ppbv
 RT: 7.87 min Scan# 1580
 Delta R.T. -0.01 min
 Lab File: VL035084.D
 Acq: 22 May 2020 14:45

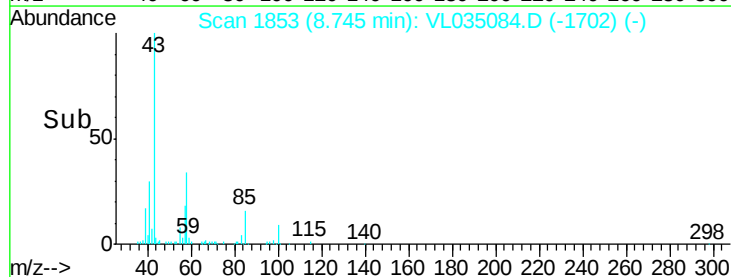
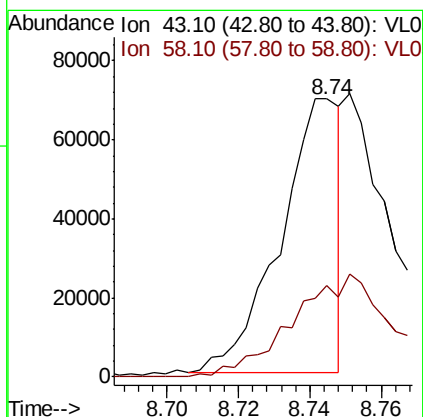
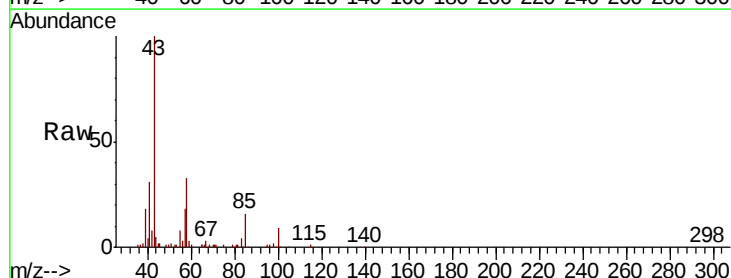
Instrument :
 MSVOA_L
 ClientSampled :

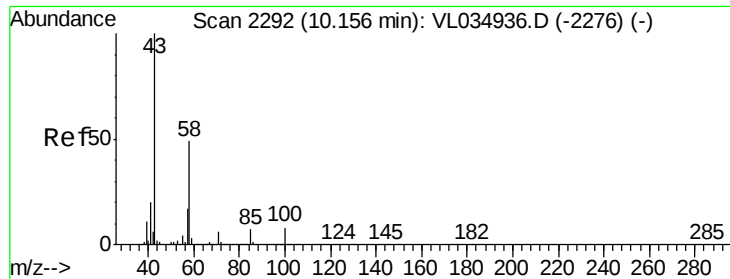
Tot Ion: 57 Resp: 75304
 Ion Ratio Lower Upper
 57 100
 41 60.6 26.4 39.6#
 56 54.6 25.5 38.3#



#50
 4-Methyl-2-Pentanone
 Concen: 0.360 ppbv
 RT: 8.74 min Scan# 1853
 Delta R.T. -0.01 min
 Lab File: VL035084.D
 Acq: 22 May 2020 14:45

Tgt Ion: 43 Resp: 80708
 Ion Ratio Lower Upper
 43 100
 58 0.0 29.1 43.7#

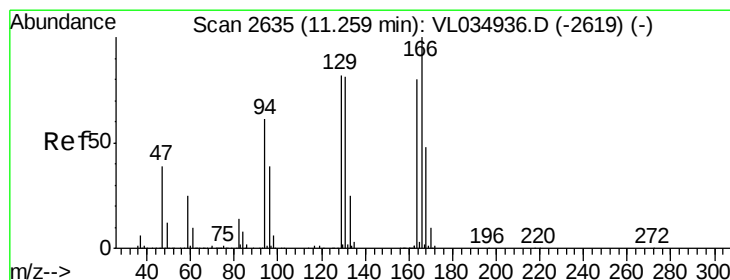
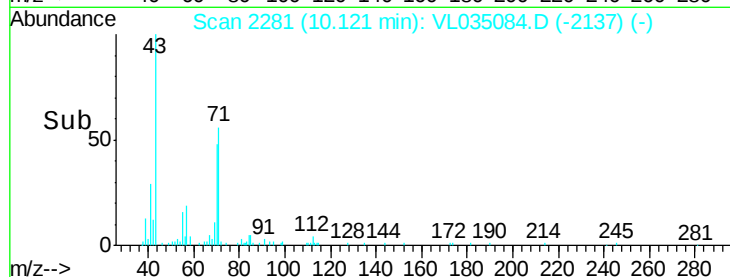
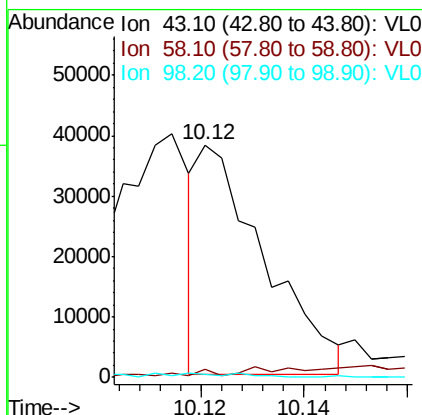
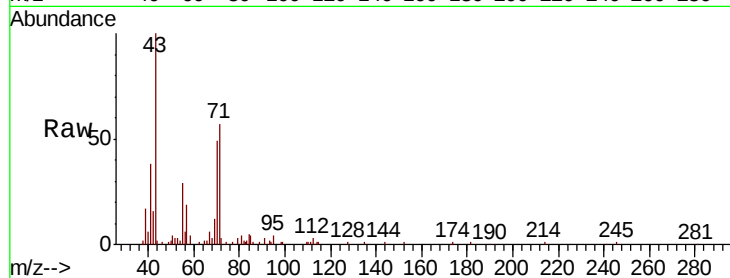




#51
2-Hexanone
Concen: 0.193 ppbv
RT: 10.12 min Scan# 2281
Delta R.T. -0.04 min
Lab File: VL035084.D
Acq: 22 May 2020 14:45

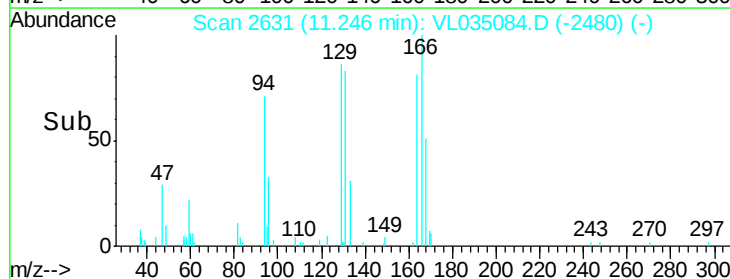
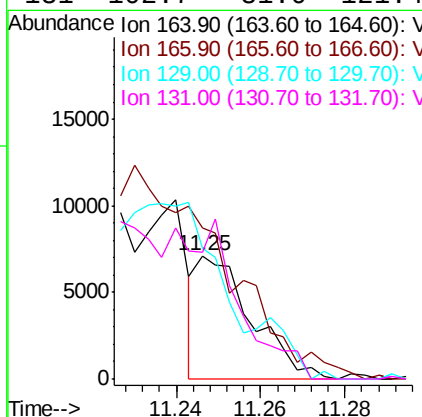
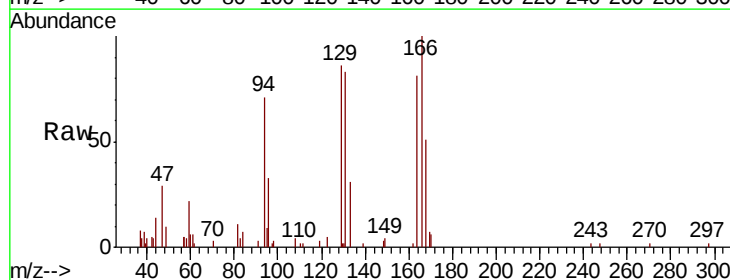
Instrument :
MSVOA_L
ClientSampled :

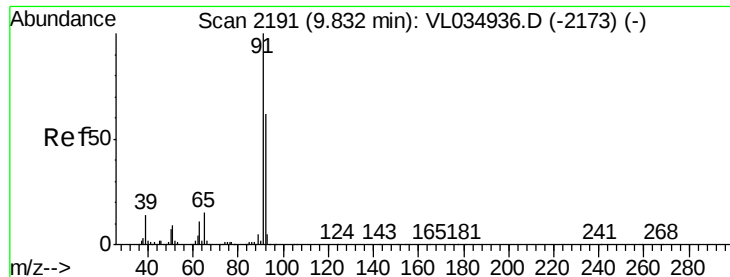
Tot Ion: 43 Resp: 33782
Ion Ratio Lower Upper
43 100
58 0.0 39.1 58.7#
98 0.0 0.3 0.5#



#52
Tetrachloroethene
Concen: 0.086 ppbv
RT: 11.25 min Scan# 2631
Delta R.T. -0.01 min
Lab File: VL035084.D
Acq: 22 May 2020 14:45

Tgt Ion: 164 Resp: 6357
Ion Ratio Lower Upper
164 100
166 114.1 100.7 151.1
129 108.8 83.0 124.4
131 102.7 81.0 121.4





#53

Toluene

Concen: 24.292 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. -0.02 min

Lab File: VL035084.D

Acq: 22 May 2020 14:45

Instrument :

MSVOA_L

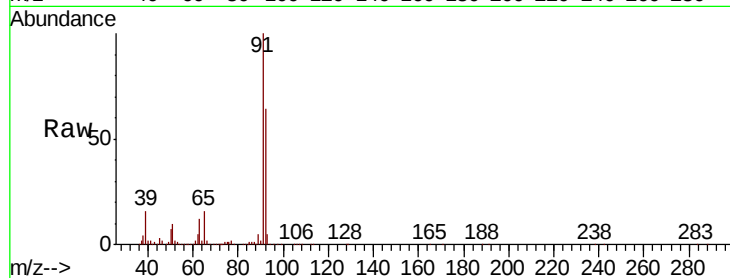
ClientSampleId :

Tot Ion: 91 Resp: 5365573

Ion Ratio Lower Upper

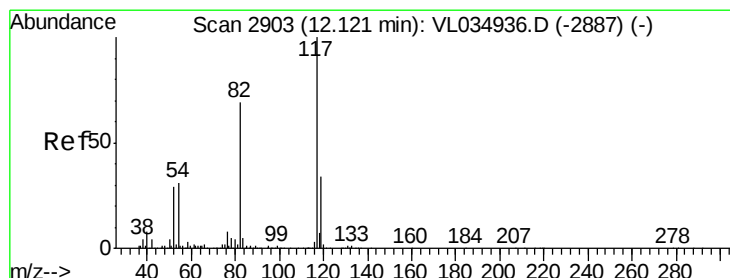
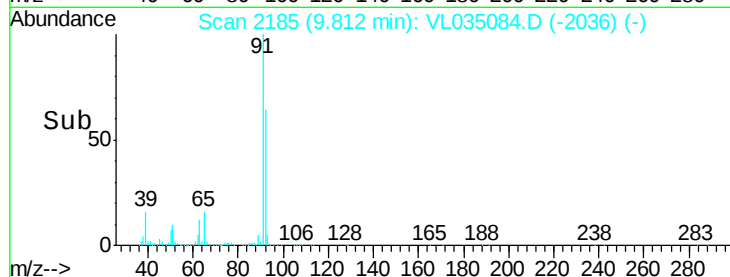
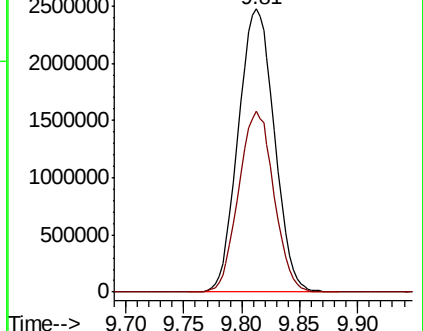
91 100

92 62.3 48.6 73.0



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# 2896

Delta R.T. -0.02 min

Lab File: VL035084.D

Acq: 22 May 2020 14:45

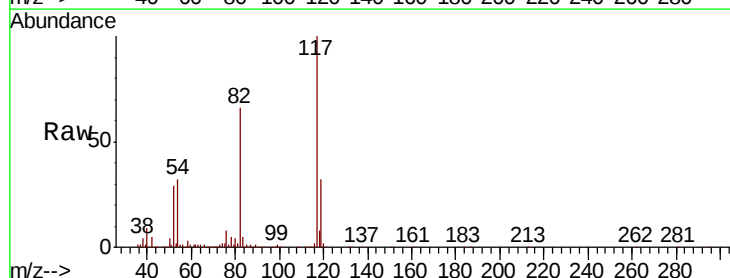
Tgt Ion: 117 Resp: 1250231

Ion Ratio Lower Upper

117 100

82 0.0 53.1 79.7#

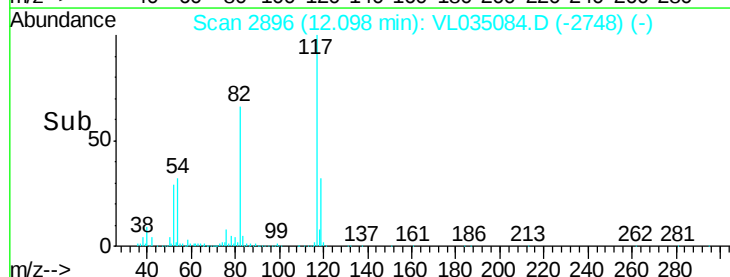
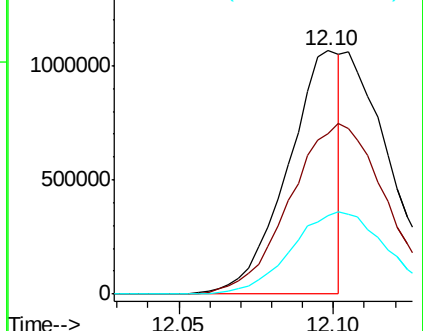
119 0.0 26.7 40.1#

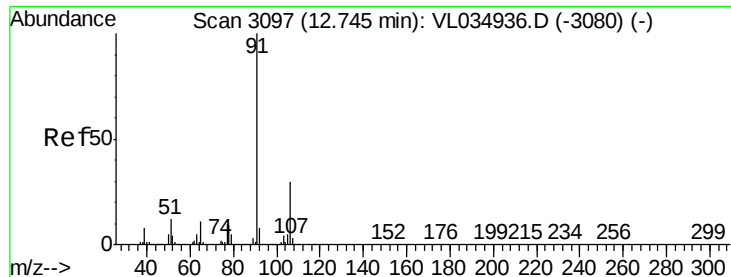


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#58

Ethyl Benzene

Concen: 6.448 ppbv

RT: 12.73 min Scan# 3091

Delta R.T. -0.02 min

Lab File: VL035084.D

Acq: 22 May 2020 14:45

Instrument :

MSVOA_L

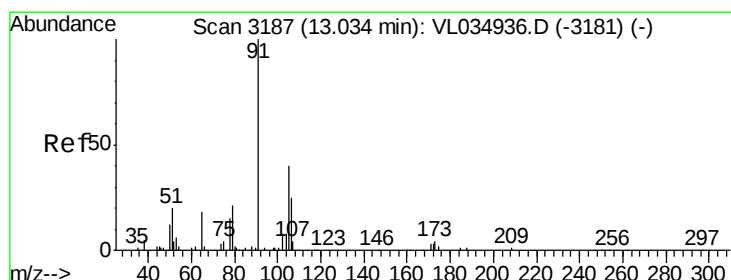
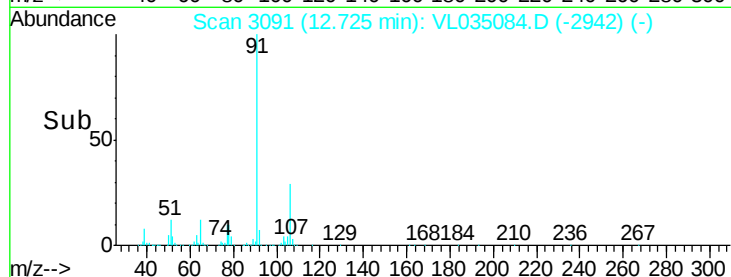
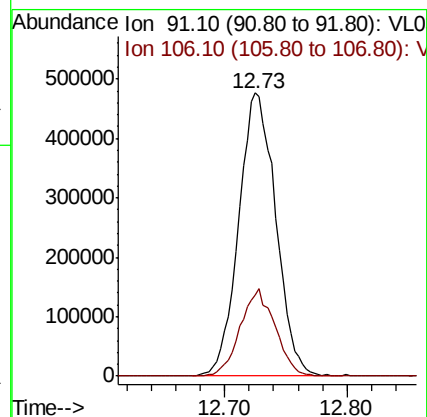
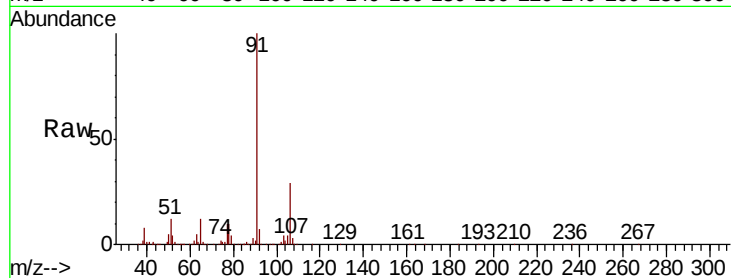
ClientSampleId :

Tot Ion: 91 Resp: 996877

Ion Ratio Lower Upper

91 100

106 28.8 24.2 36.4



#59

m/p-Xylene

Concen: 10.167 ppbv

RT: 12.98 min Scan# 3171

Delta R.T. -0.05 min

Lab File: VL035084.D

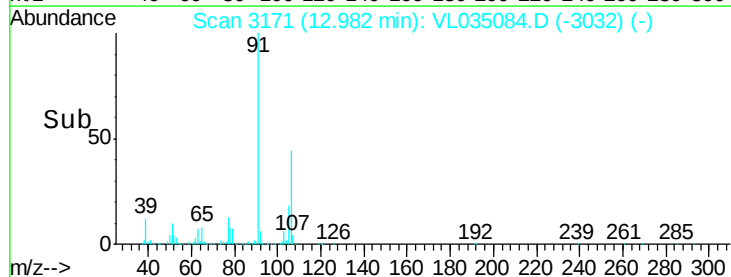
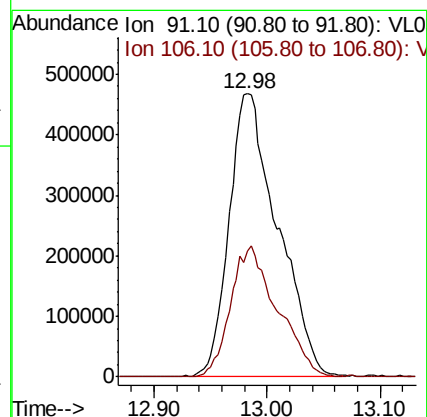
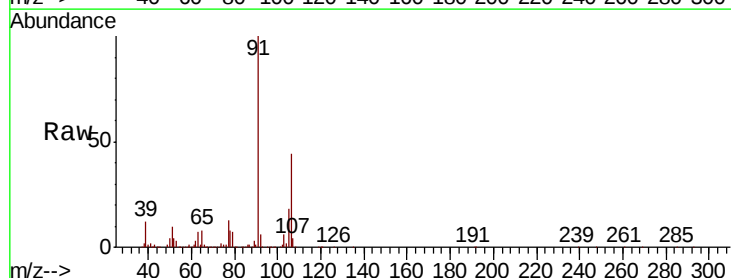
Acq: 22 May 2020 14:45

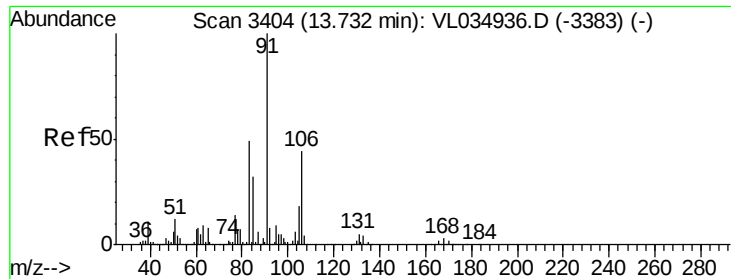
Tgt Ion: 91 Resp: 1383003

Ion Ratio Lower Upper

91 100

106 44.9 66.0 99.0#





#60

o-Xylene

Concen: 3.689 ppbv

RT: 13.71 min Scan# 3397

Delta R.T. -0.02 min

Lab File: VL035084.D

Acq: 22 May 2020 14:45

Instrument :

MSVOA_L

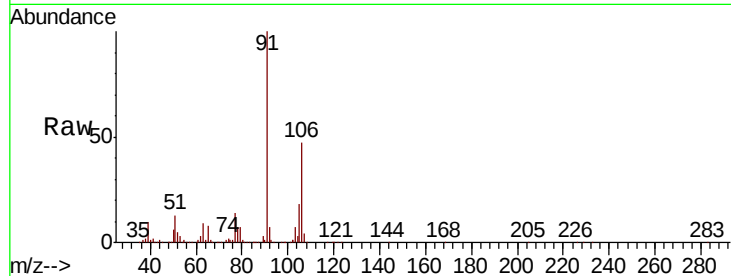
ClientSampleId :

Tot Ion: 91 Resp: 495114

Ion Ratio Lower Upper

91 100

106 43.9 21.9 65.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

250000

200000

150000

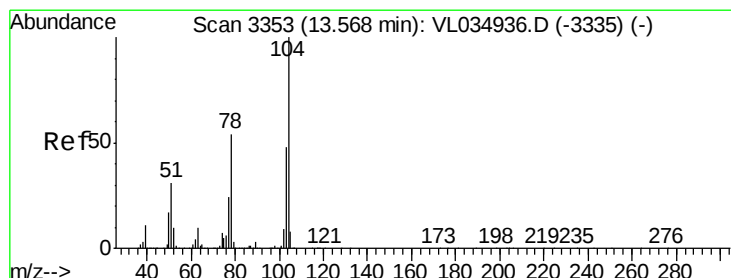
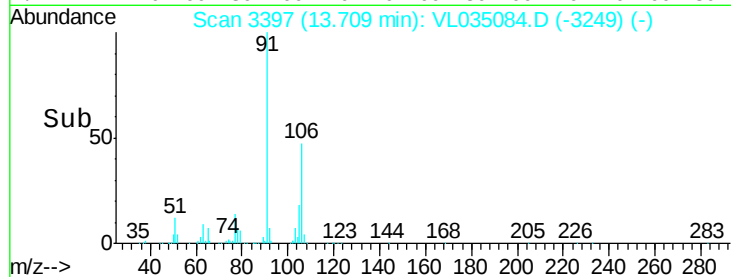
100000

50000

0

13.65 13.70 13.75

Time-->



#61

Styrene

Concen: 8.028 ppbv

RT: 13.55 min Scan# 3346

Delta R.T. -0.02 min

Lab File: VL035084.D

Acq: 22 May 2020 14:45

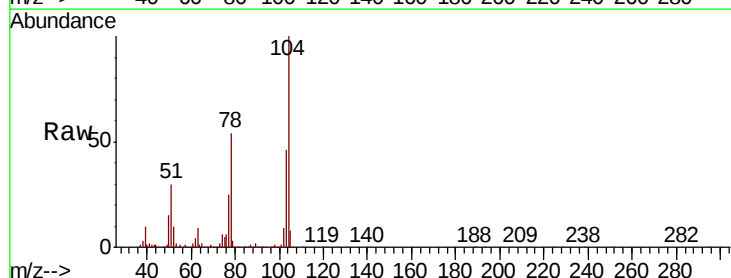
Tgt Ion: 104 Resp: 681943

Ion Ratio Lower Upper

104 100

78 54.8 43.7 65.5

103 47.6 38.8 58.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V

400000

300000

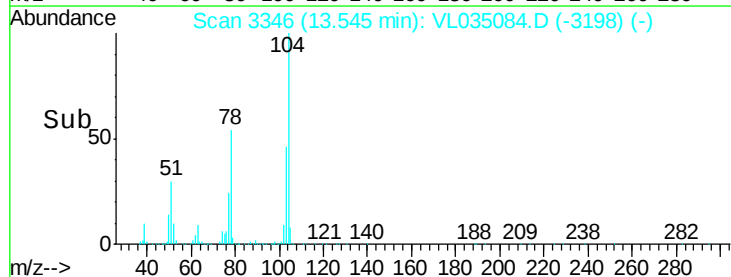
200000

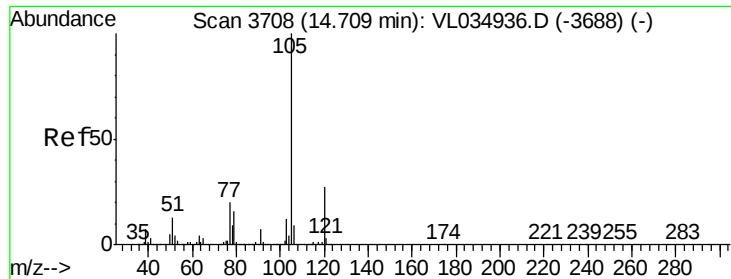
100000

0

13.45 13.50 13.55 13.60

Time-->





#62

Isopropylbenzene

Concen: 0.112 ppbv

RT: 14.68 min Scan# 3700

Delta R.T. -0.03 min

Lab File: VL035084.D

Acq: 22 May 2020 14:45

Instrument :

MSVOA_L

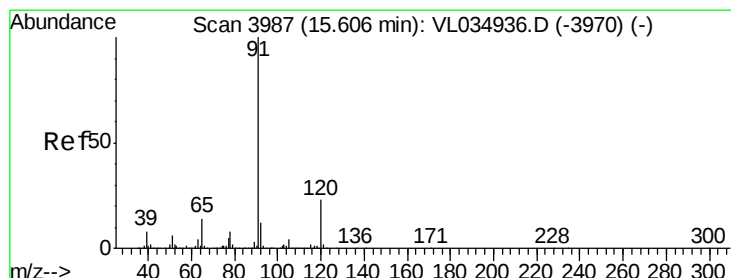
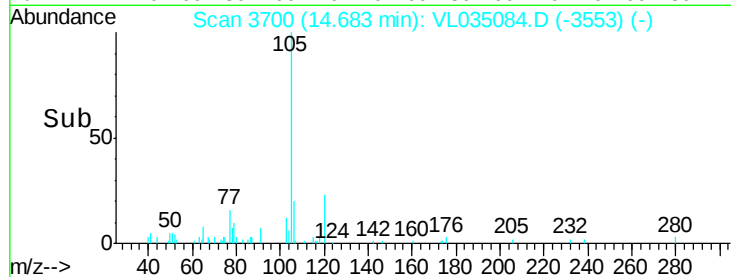
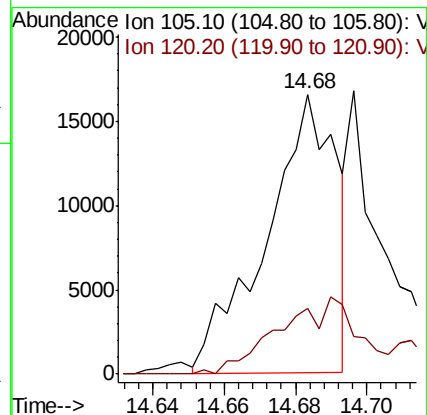
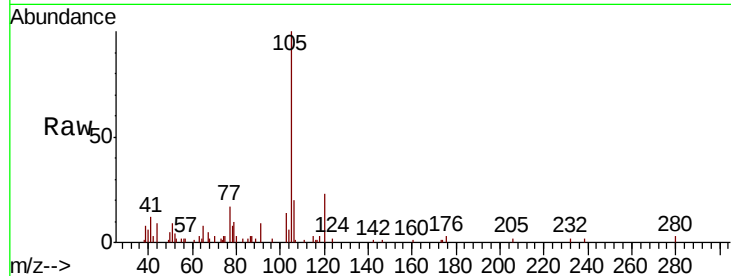
ClientSampleId :

Tot Ion:105 Resp: 22465

Ion Ratio Lower Upper

105 100

120 0.0 20.6 31.0#



#64

n-propylbenzene

Concen: 0.059 ppbv

RT: 15.78 min Scan# 4041

Delta R.T. 0.17 min

Lab File: VL035084.D

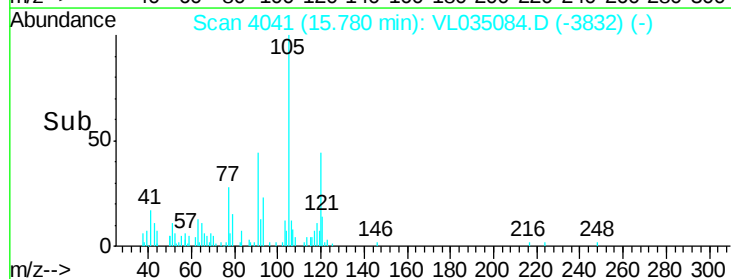
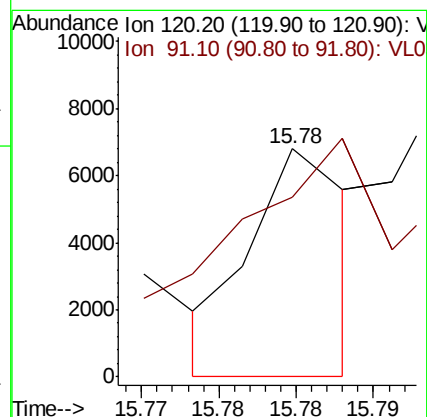
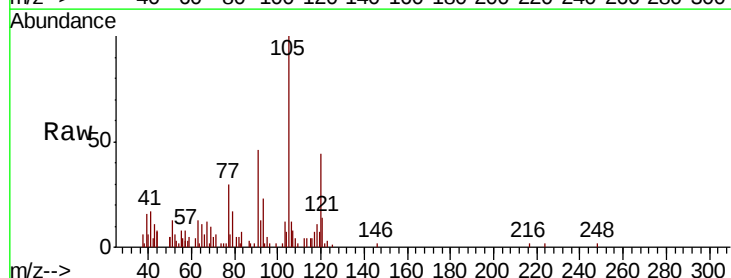
Acq: 22 May 2020 14:45

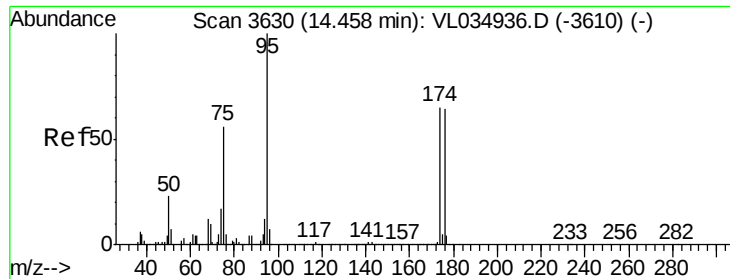
Tgt Ion:120 Resp: 3029

Ion Ratio Lower Upper

120 100

91 502.1 373.5 560.3

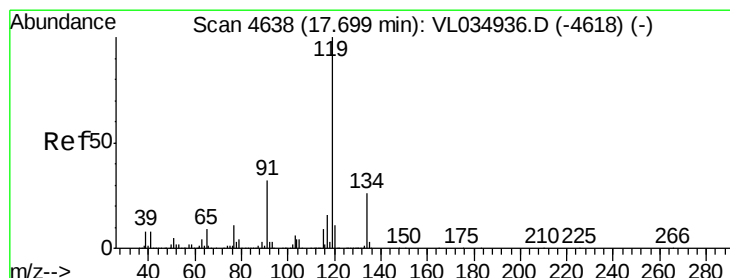
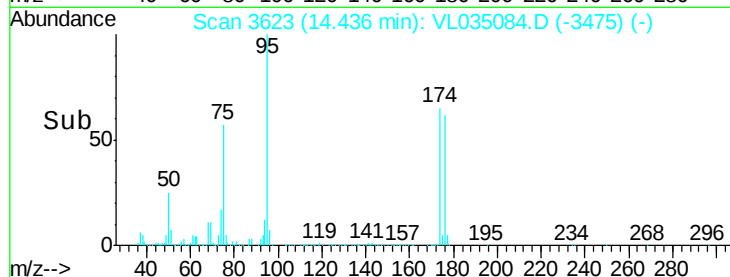
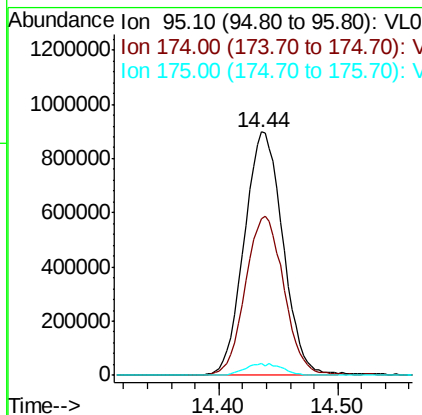
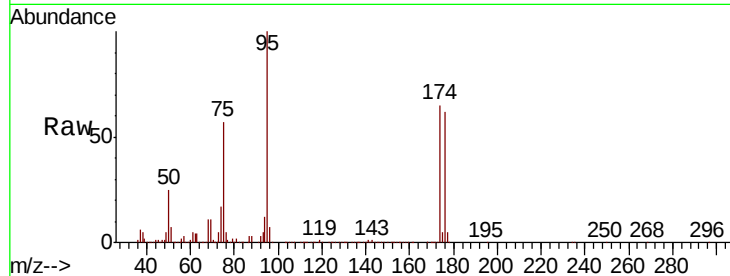




#68
 1-Bromo-4-Fluorobenzene
 Concen: 19.971 ppbv
 RT: 14.44 min Scan# 3623
 Delta R.T. -0.02 min
 Lab File: VL035084.D
 Acq: 22 May 2020 14:45

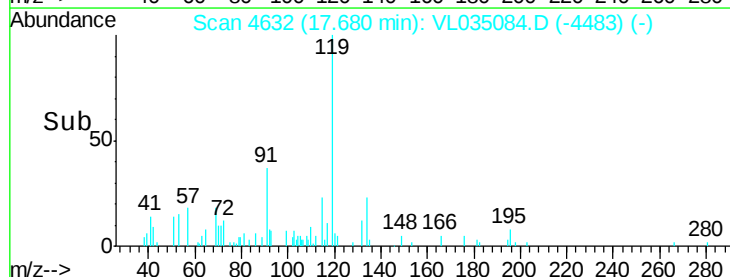
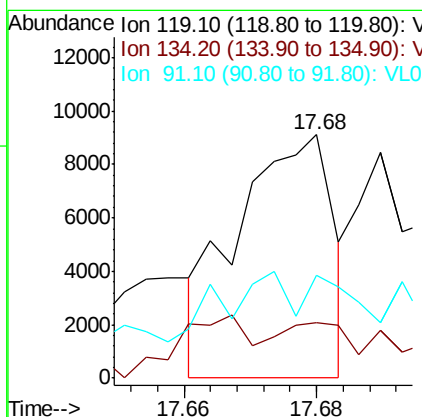
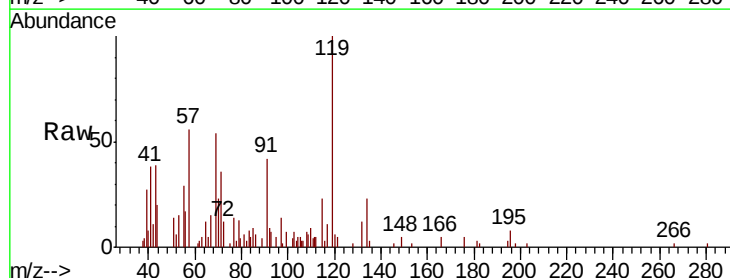
Instrument :
 MSVOA_L
 ClientSampled :

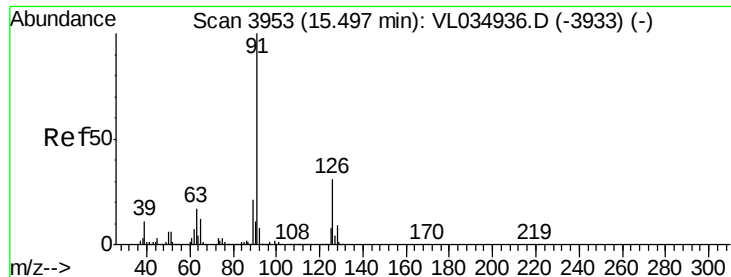
Tot Ion: 95 Resp: 2021005
 Ion Ratio Lower Upper
 95 100
 174 65.7 51.5 77.3
 175 4.8 3.8 5.8



#69
 p-Isopropyltoluene
 Concen: 0.046 ppbv
 RT: 17.68 min Scan# 4632
 Delta R.T. -0.02 min
 Lab File: VL035084.D
 Acq: 22 May 2020 14:45

Tgt Ion: 119 Resp: 9161
 Ion Ratio Lower Upper
 119 100
 134 55.6 20.3 30.5#
 91 89.9 24.6 36.8#

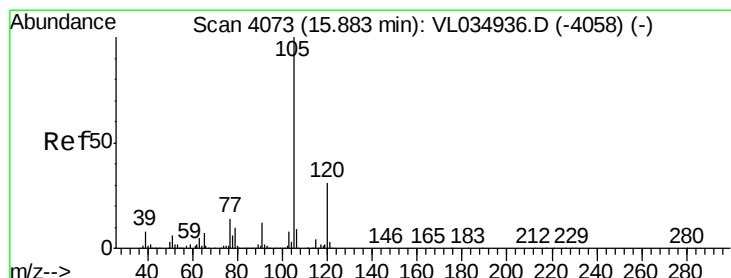
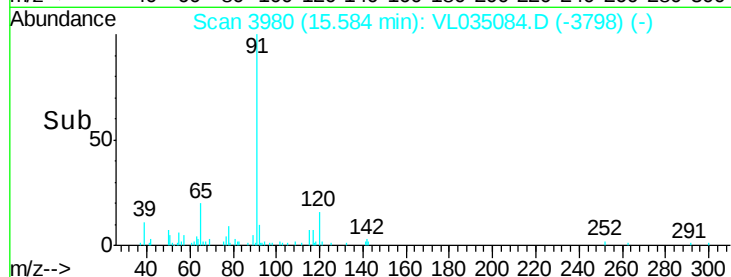
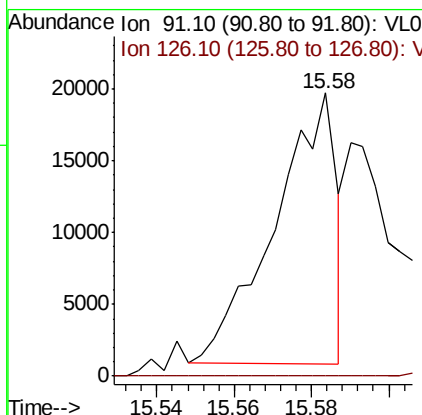
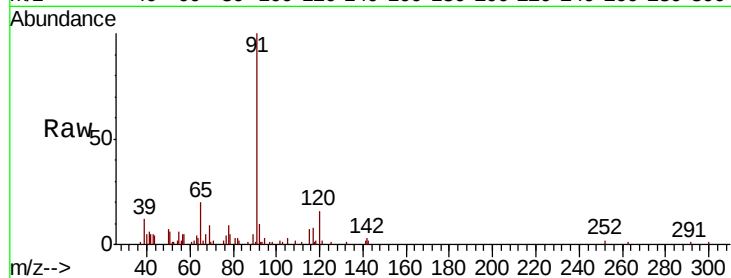




#71
 2-Chlorotoluene
 Concen: 0.138 ppbv
 RT: 15.58 min Scan# 3980
 Delta R.T. 0.09 min
 Lab File: VL035084.D
 Acq: 22 May 2020 14:45

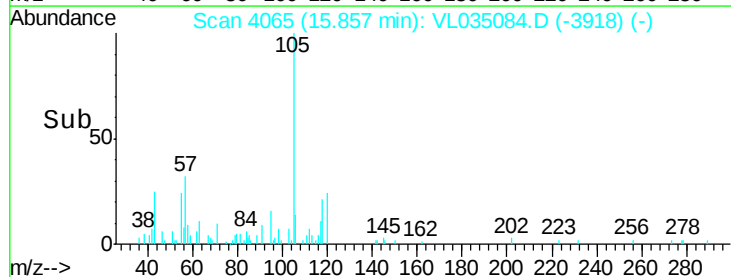
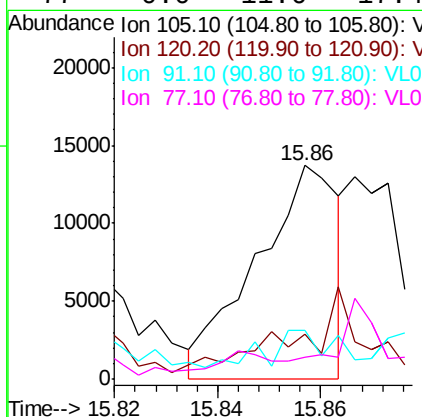
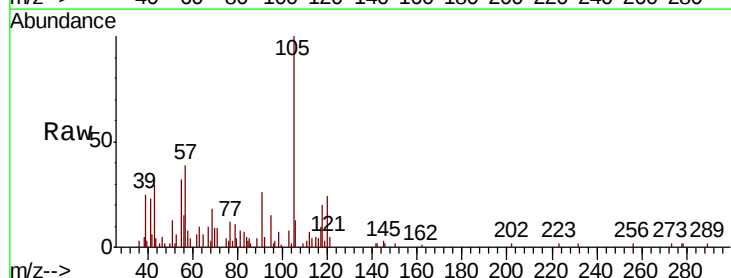
Instrument :
 MSVOA_L
 ClientSampleId :

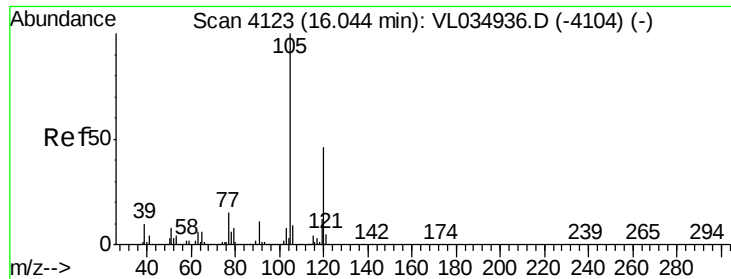
Tot Ion: 91 Resp: 20882
 Ion Ratio Lower Upper
 91 100
 126 2.7 12.0 47.8#



#72
 4-Ethyltoluene
 Concen: 0.101 ppbv
 RT: 15.86 min Scan# 4065
 Delta R.T. -0.03 min
 Lab File: VL035084.D
 Acq: 22 May 2020 14:45

Tgt Ion:105 Resp: 15121
 Ion Ratio Lower Upper
 105 100
 120 0.0 23.8 35.8#
 91 42.2 10.6 15.8#
 77 0.0 11.6 17.4#

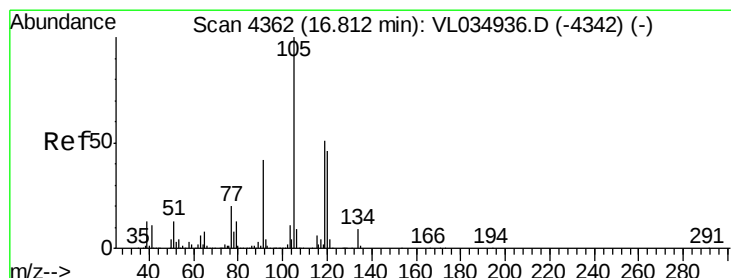
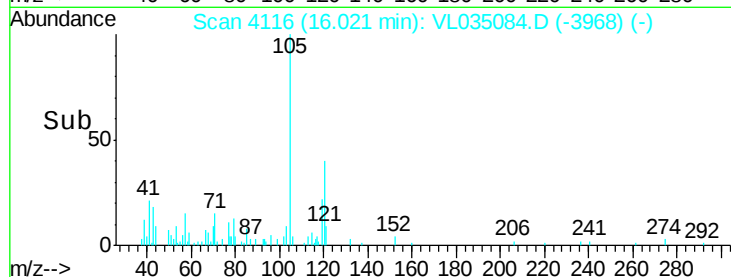
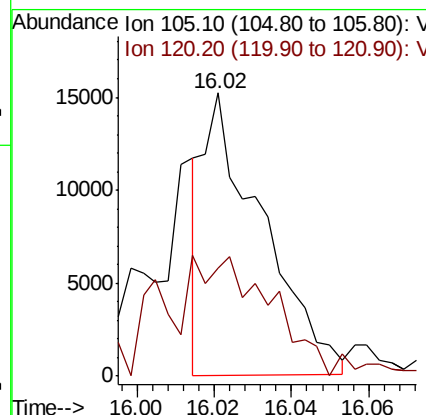
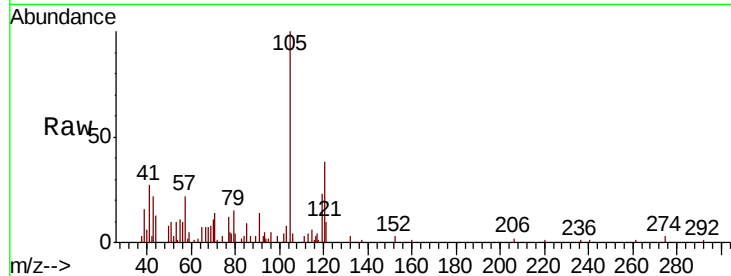




#73
 1,3,5-Trimethylbenzene
 Concen: 0.110 ppbv
 RT: 16.02 min Scan# 4116
 Delta R.T. -0.02 min
 Lab File: VL035084.D
 Acq: 22 May 2020 14:45

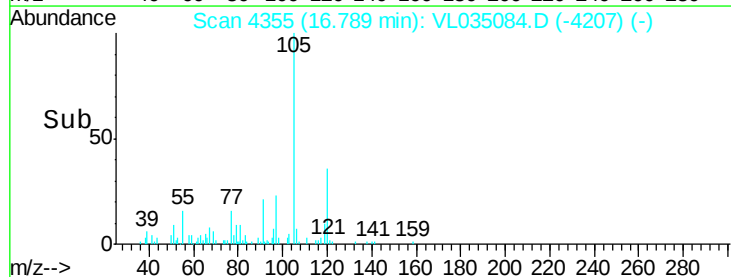
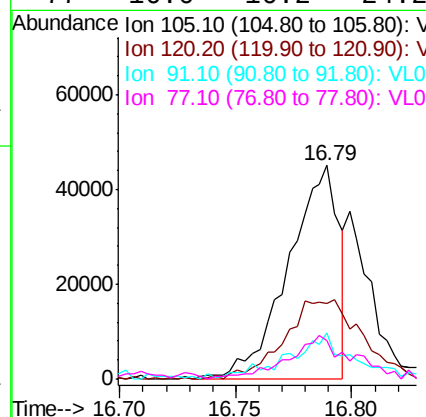
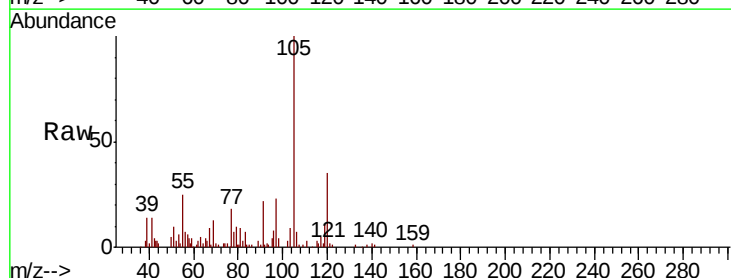
Instrument :
 MSVOA_L
 ClientSampleId :

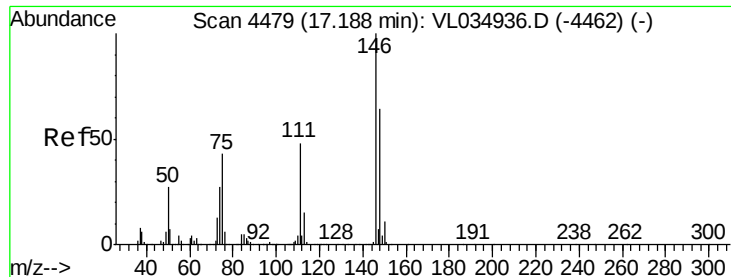
Tot Ion:105 Resp: 15983
 Ion Ratio Lower Upper
 105 100
 120 32.1 36.4 54.6#



#74
 1,2,4-Trimethylbenzene
 Concen: 0.430 ppbv
 RT: 16.79 min Scan# 4355
 Delta R.T. -0.02 min
 Lab File: VL035084.D
 Acq: 22 May 2020 14:45

Tgt Ion:105 Resp: 68476
 Ion Ratio Lower Upper
 105 100
 120 35.2 36.8 55.2#
 91 20.6 35.4 53.0#
 77 16.0 16.2 24.2#





#76

1,4-Dichlorobenzene

Concen: 0.039 ppbv

RT: 17.16 min Scan# 4479

Delta R.T. -0.03 min

Lab File: VL035084.D

Acq: 22 May 2020 14:45

Instrument :

MSVOA_L

ClientSampled :

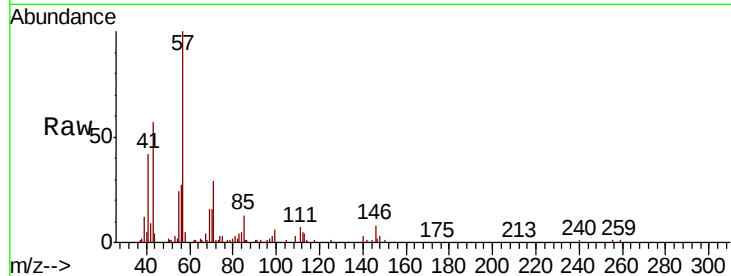
Tot Ion:146 Resp: 3428

Ion Ratio Lower Upper

146 100

111 425.4 23.7 71.1#

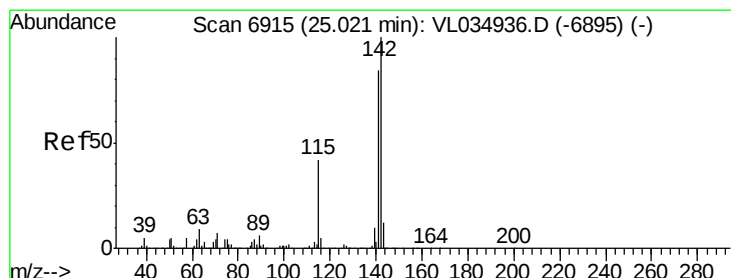
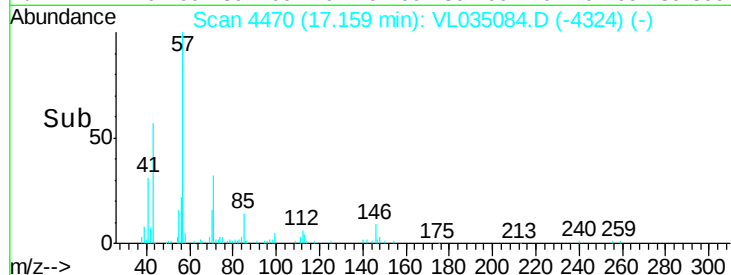
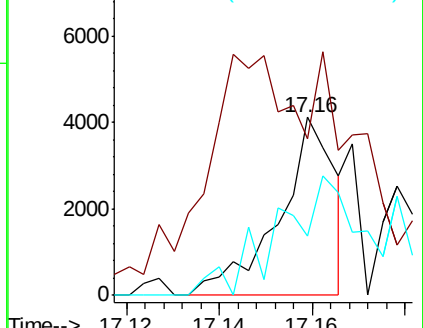
148 140.2 32.6 97.8#



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



#80

Naphthalene, 2-methyl-

Concen: 0.041 ppbv

RT: 25.02 min Scan# 6914

Delta R.T. -0.00 min

Lab File: VL035084.D

Acq: 22 May 2020 14:45

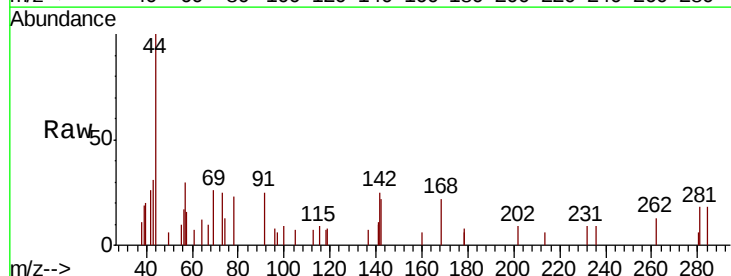
Tgt Ion:142 Resp: 1255

Ion Ratio Lower Upper

142 100

141 50.4 68.6 102.8#

115 43.4 33.9 50.9



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

