

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120820\
 Data File : VL036104.D
 Acq On : 8 Dec 2020 21:08
 Operator : SY/AP
 Sample : L4949-04
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2

Quant Time: Dec 09 07:21:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 07 16:56:49 2020
 QLast Update : Mon Dec 07 16:56:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1095484	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2614126	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2420038	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2092347	10.89	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.99	51	48737	0.390	ppbv	94
4) Chloromethane	3.14	50	29142	0.475	ppbv	98
9) Propene	3.20	41	992899	15.858	ppbv	92
10) Heptane	8.13	43	577547	3.612	ppbv	93
11) Trichlorofluoromethane	3.95	101	17376	0.116	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.49	101	4984	0.049	ppbv #	56
13) Ethanol	3.63	45	1388959	160.918	ppbv	85
15) Acetone	3.85	43	21491366	163.233	ppbv #	76
16) 1,3-Butadiene	3.30	39	281200	4.241	ppbv #	36
17) tert-Butyl alcohol	4.32	59	54391	0.426	ppbv #	71
19) Isopropyl Alcohol	4.00	45	3231380	40.156	ppbv #	100
20) Methylene Chloride	4.36	84	255134	4.729	ppbv	94
21) Allyl Chloride	4.37	41	221328	2.528	ppbv #	48
23) Vinyl Acetate	5.11	43	982831	5.607	ppbv #	41
25) Ethyl Acetate	5.68	43	9002134	34.225	ppbv #	88
26) Hexane	5.70	57	668387	5.646	ppbv #	1
28) Methyl tert-Butyl Ether	5.04	73	6841	0.041	ppbv #	51
30) Cyclohexane	7.14	84	202093	2.324	ppbv	93
31) cis-1,2-Dichloroethene	5.68	61	1143555	10.627	ppbv #	27
34) 2-Butanone	5.26	43	12095185	69.753	ppbv	94
36) Benzene	6.90	78	379014	1.711	ppbv	98
39) 1,2-Dichloropropane	7.19	63	759373	8.679	ppbv #	25
41) Tetrahydrofuran	6.05	42	3354328	32.562	ppbv	99
42) Bromodichloromethane	7.81	83	8845	0.052	ppbv #	25
43) Methyl Methacrylate	8.04	69	29097	0.306	ppbv #	1
44) 2,2,4-Trimethylpentane	7.88	57	4553387	11.349	ppbv #	89
50) 4-Methyl-2-Pentanone	8.76	43	2056022	7.951	ppbv	99
51) 2-Hexanone	10.07	43	242009	1.197	ppbv #	37
53) Toluene	9.84	91	21843002	87.804	ppbv #	75
58) Ethyl Benzene	12.73	91	4656330	14.040	ppbv	97
59) m/p-Xylene	12.99	91	12242924	43.829	ppbv	90
60) o-Xylene	13.71	91	4147696	15.760	ppbv	99
61) Styrene	13.55	104	240905	1.426	ppbv	97
62) Isopropylbenzene	14.69	105	502996	1.289	ppbv	98
64) n-propylbenzene	15.58	120	520275	5.543	ppbv	91
65) tert-Butylbenzene	16.79	119	780452	2.444	ppbv #	66
66) Benzyl Chloride	16.79	91	914631	11.503	ppbv #	67
67) sec-Butylbenzene	17.32	105	86517	0.194	ppbv #	54
69) p-Isopropyltoluene	17.56	119	237443	0.668	ppbv	93
70) n-Butylbenzene	18.57	91	150865	0.429	ppbv #	68
71) 2-Chlorotoluene	15.58	91	2619320	8.882	ppbv #	47

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 07 16:56:49 2020
QLast Update : Mon Dec 07 16:56:49 2020
Response via : Initial Calibration

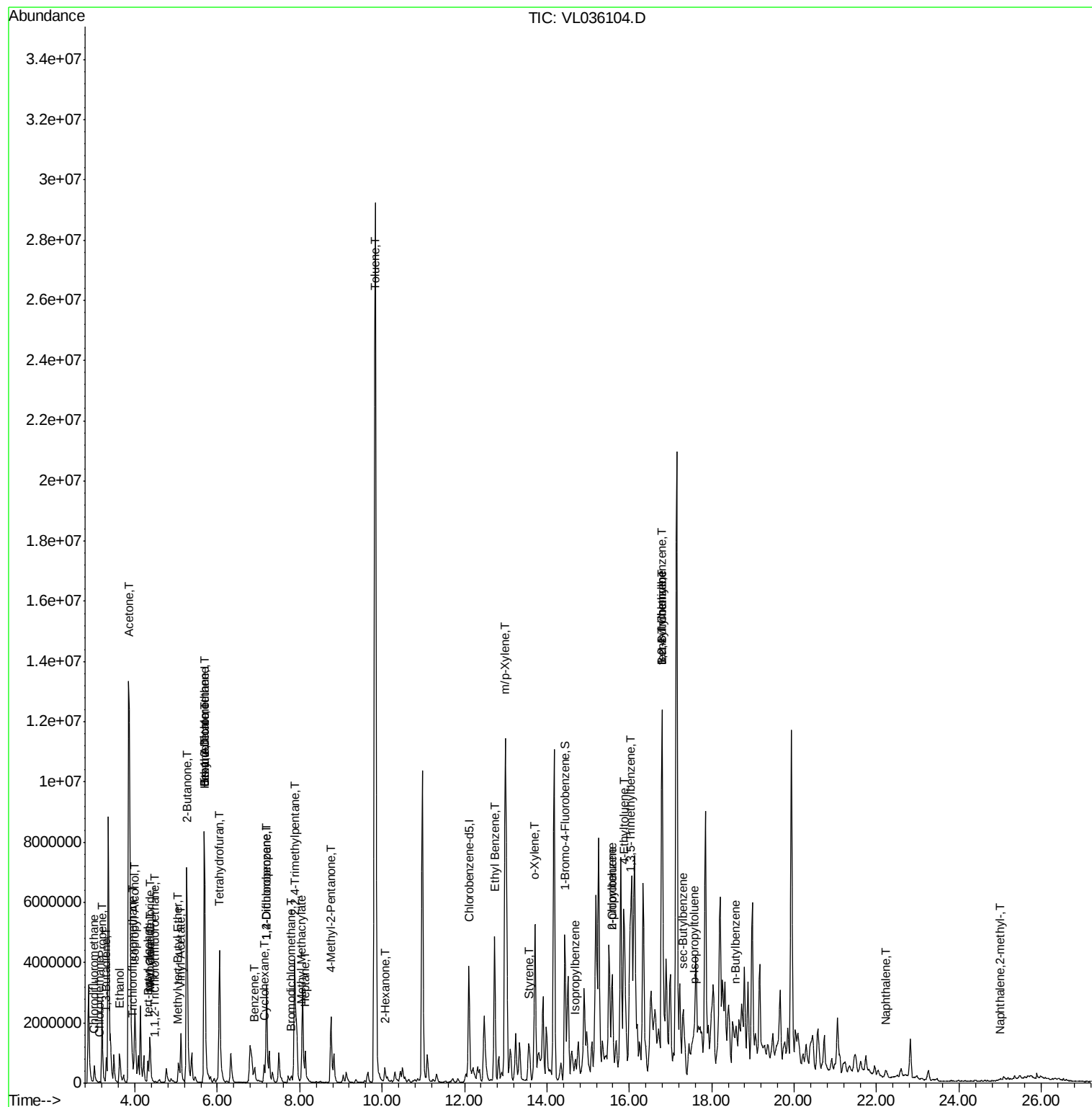
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 4-Ethyltoluene	15.86	105	2984911	10.470	ppbv	98
73) 1,3,5-Trimethylbenzene	16.02	105	2747813	10.092	ppbv	98
74) 1,2,4-Trimethylbenzene	16.79	105	6829388	24.987	ppbv #	71
79) Naphthalene	22.22	128	46897	0.338	ppbv #	89
80) Naphthalene,2-methyl-	24.99	142	9390	0.302	ppbv #	85

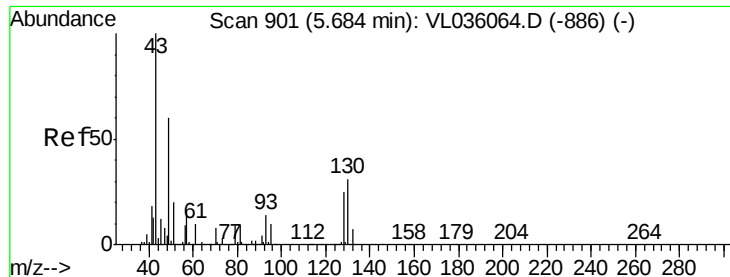
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL120820\
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.00 min

Lab File: VL036104.D

Acq: 8 Dec 2020 21:08

Instrument :

MSVOA_L

ClientSampleId :

IA-2

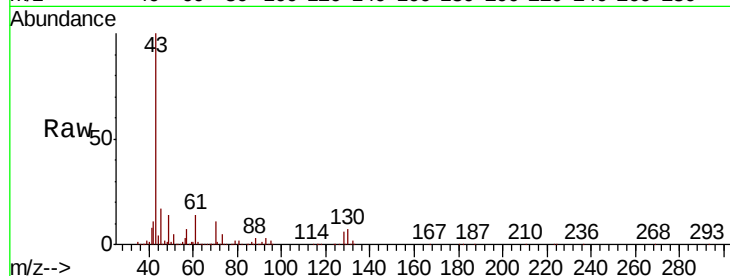
Tot Ion: 49 Resp: 1095484

Ion Ratio Lower Upper

49 100

128 40.2 21.1 63.1

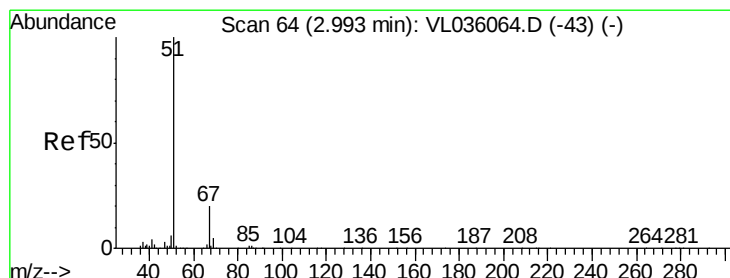
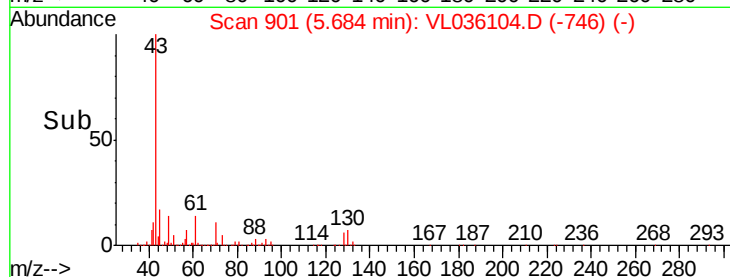
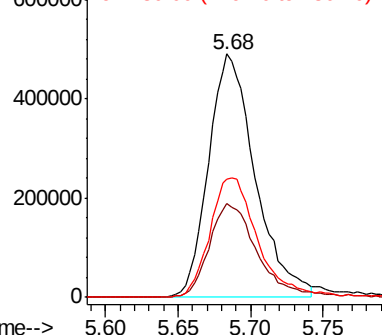
130 51.5 27.1 81.3



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#3

Chlorodifluoromethane

Concen: 0.390 ppbv

RT: 2.99 min Scan# 62

Delta R.T. -0.01 min

Lab File: VL036104.D

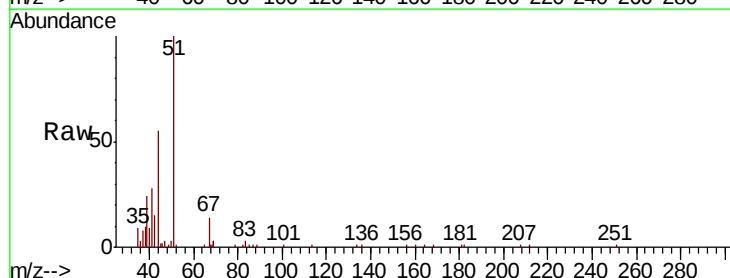
Acq: 8 Dec 2020 21:08

Tgt Ion: 51 Resp: 48737

Ion Ratio Lower Upper

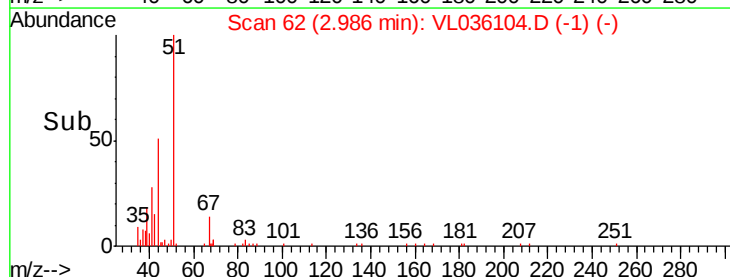
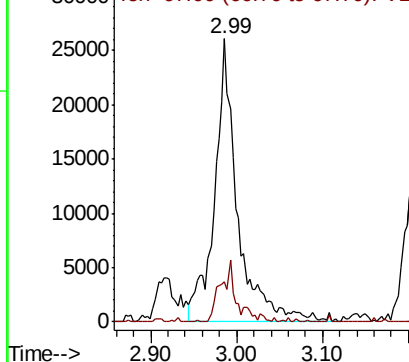
51 100

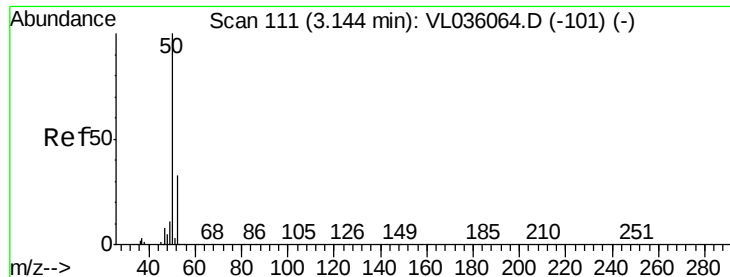
67 15.2 14.3 21.5



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.475 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL036104.D

Acq: 8 Dec 2020 21:08

Instrument :

MSVOA_L

ClientSampled :

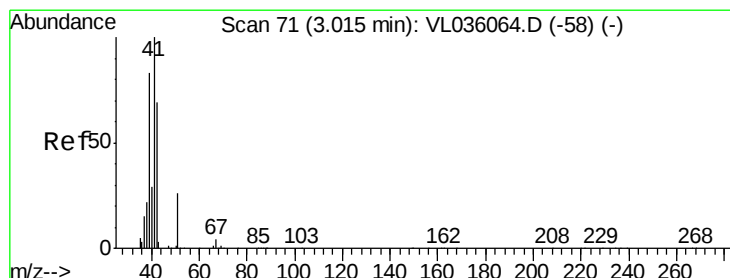
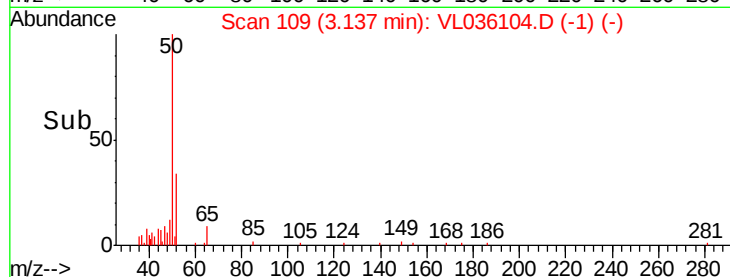
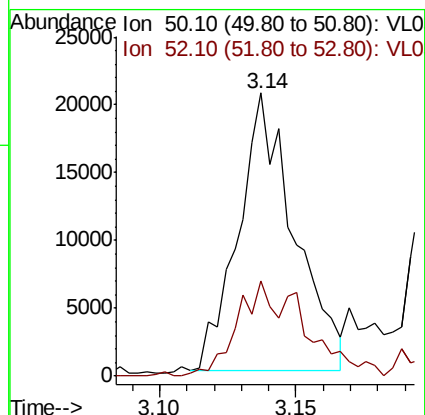
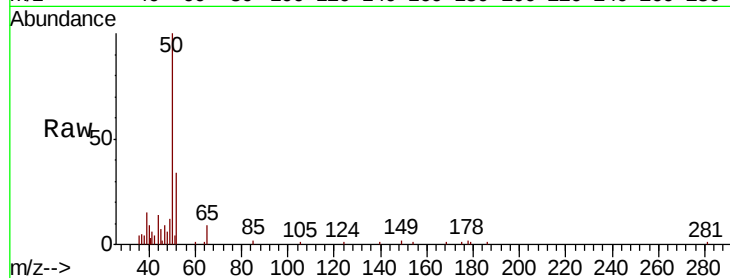
IA-2

Tot Ion: 50 Resp: 29142

Ion Ratio Lower Upper

50 100

52 33.6 26.1 39.1



#9

Propene

Concen: 15.858 ppbv

RT: 3.20 min Scan# 129

Delta R.T. 0.19 min

Lab File: VL036104.D

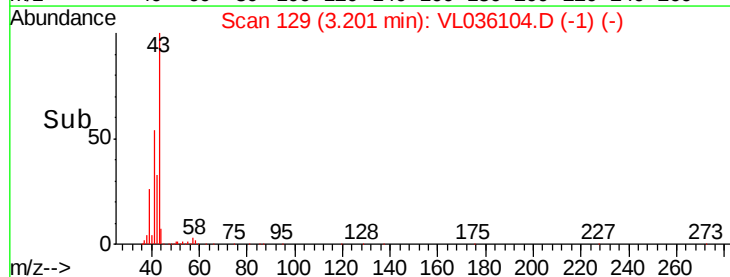
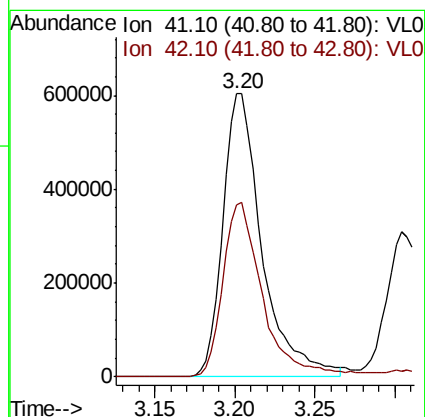
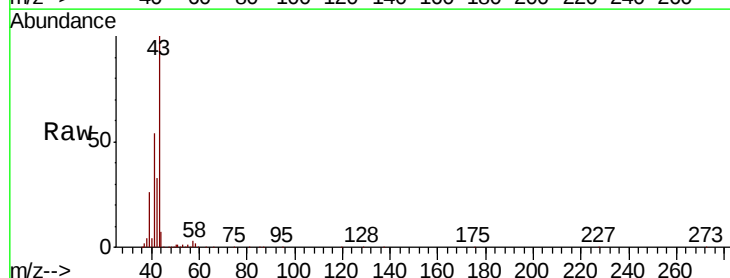
Acq: 8 Dec 2020 21:08

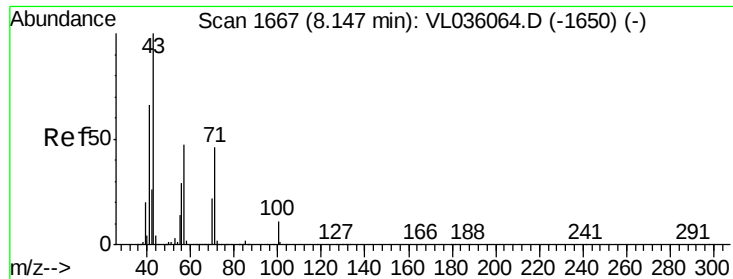
Tgt Ion: 41 Resp: 992899

Ion Ratio Lower Upper

41 100

42 64.3 57.0 85.6

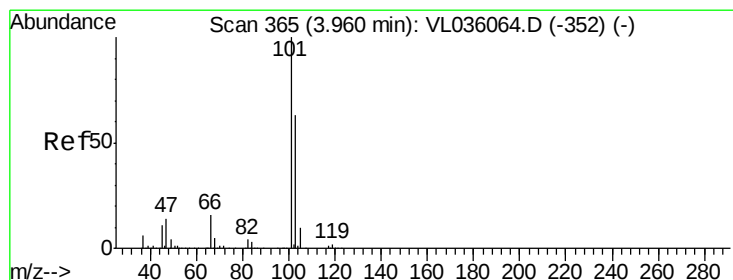
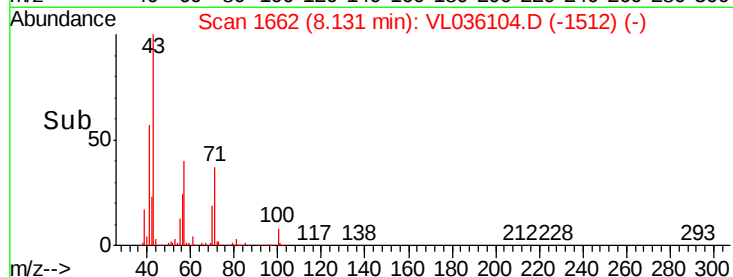
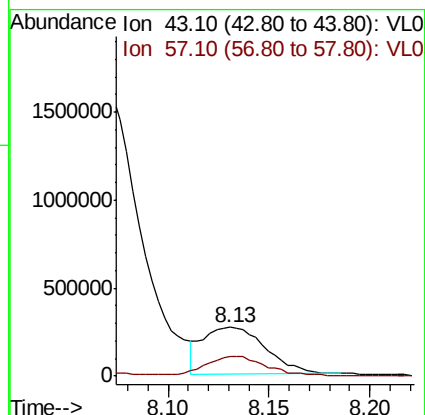
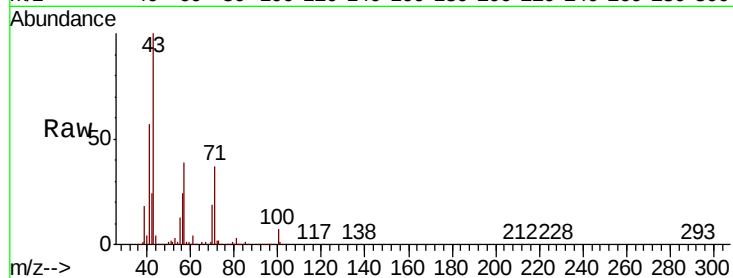




#10
 Heptane
 Concen: 3.612 ppbv
 RT: 8.13 min Scan# 1662
 Delta R.T. -0.02 min
 Lab File: VL036104.D
 Acq: 8 Dec 2020 21:08

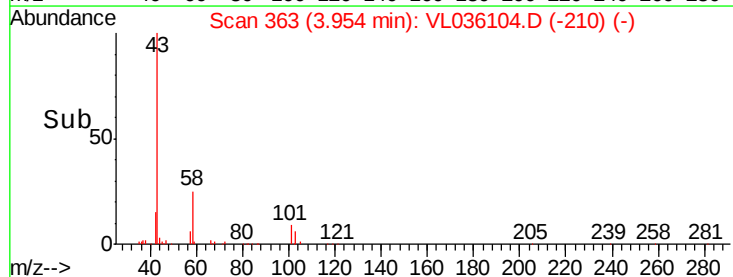
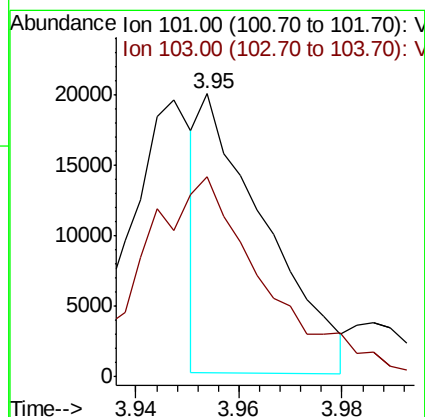
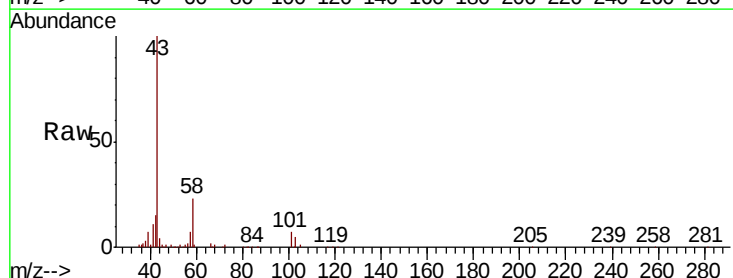
Instrument :
 MSVOA_L
 ClientSampled :
 IA-2

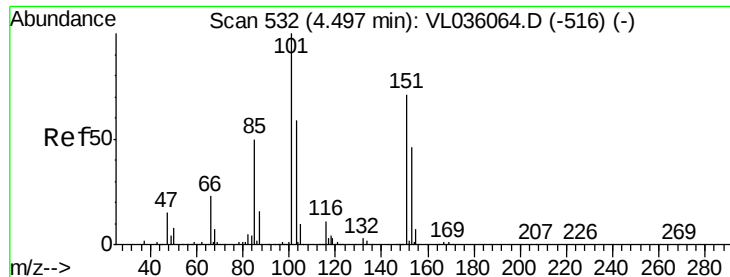
Tot Ion: 43 Resp: 577547
 Ion Ratio Lower Upper
 43 100
 57 42.4 37.9 56.9



#11
 Trichlorofluoromethane
 Concen: 0.116 ppbv
 RT: 3.95 min Scan# 363
 Delta R.T. -0.01 min
 Lab File: VL036104.D
 Acq: 8 Dec 2020 21:08

Tgt Ion: 101 Resp: 17376
 Ion Ratio Lower Upper
 101 100
 103 65.1 50.3 75.5





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.049 ppbv

RT: 4.49 min Scan# 530

Delta R.T. -0.01 min

Lab File: VL036104.D

Acq: 8 Dec 2020 21:08

Instrument :

MSVOA_L

ClientSampleId :

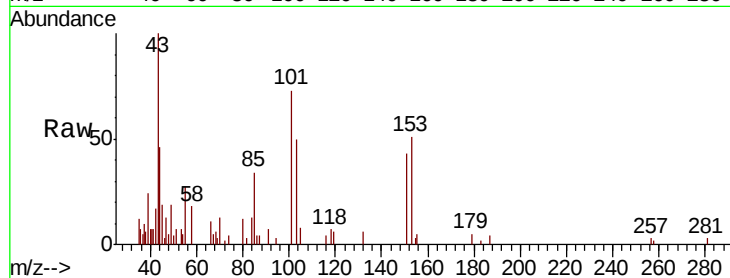
IA-2

Tot Ion:101 Resp: 4984

Ion Ratio Lower Upper

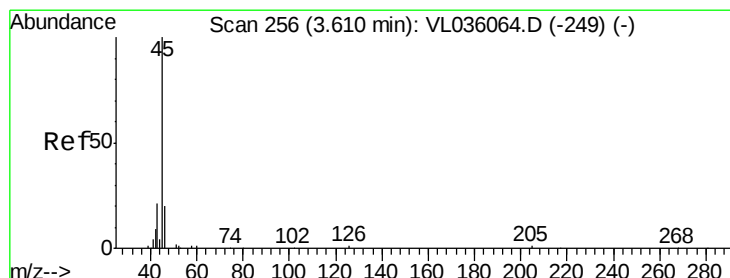
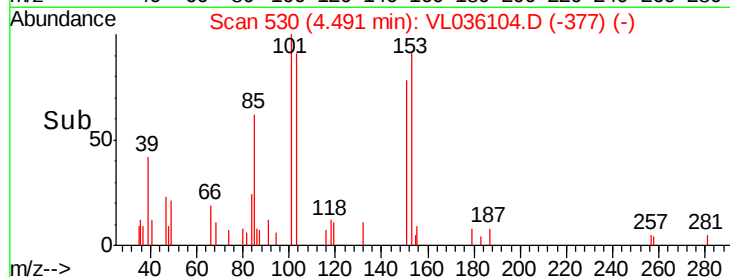
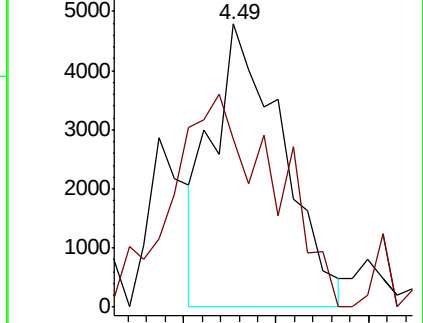
101 100

151 111.5 59.3 88.9#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 160.918 ppbv

RT: 3.63 min Scan# 262

Delta R.T. 0.02 min

Lab File: VL036104.D

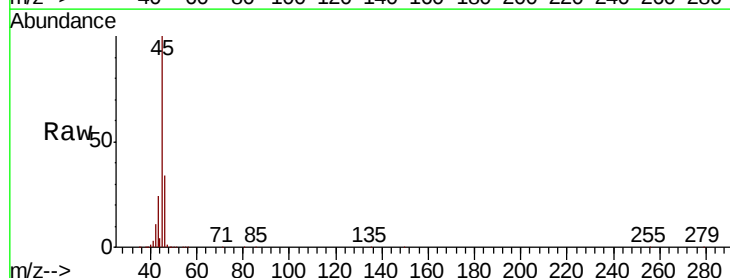
Acq: 8 Dec 2020 21:08

Tgt Ion: 45 Resp: 1388959

Ion Ratio Lower Upper

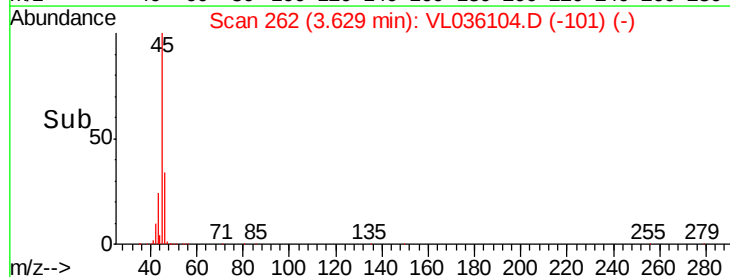
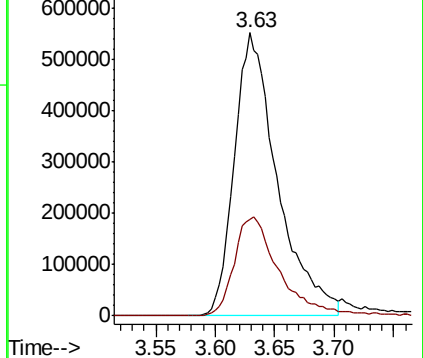
45 100

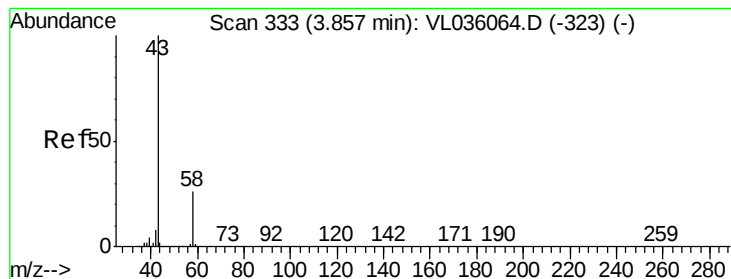
46 37.2 19.0 75.8



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 163.233 ppbv

RT: 3.85 min Scan# 331

Delta R.T. -0.01 min

Lab File: VL036104.D

Acq: 8 Dec 2020 21:08

Instrument :

MSVOA_L

ClientSampleId :

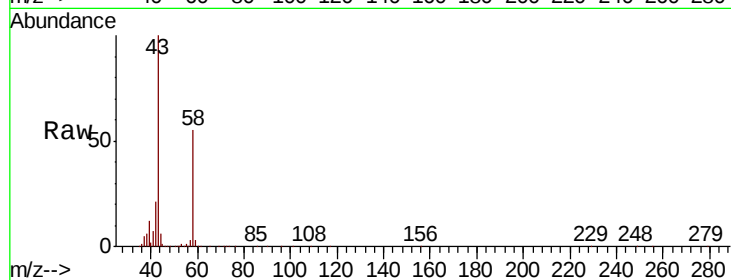
IA-2

Tot Ion: 43 Resp: 21491366

Ion Ratio Lower Upper

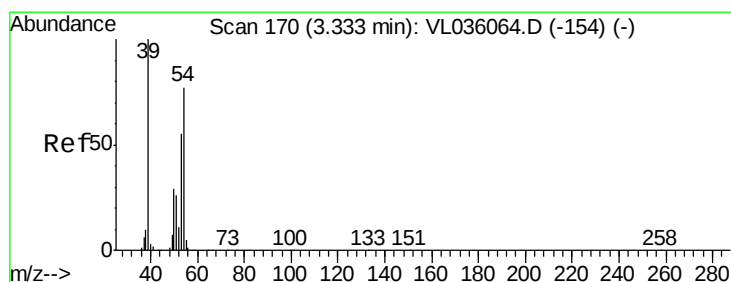
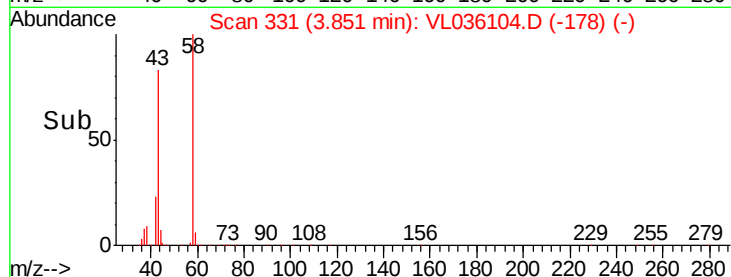
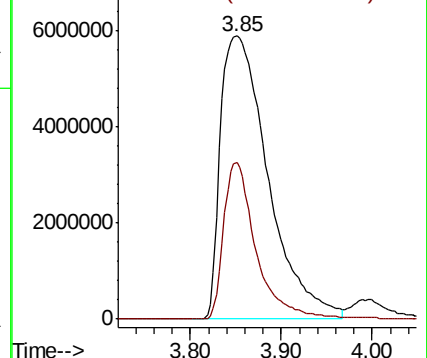
43 100

58 38.2 20.9 31.3#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 4.241 ppbv

RT: 3.30 min Scan# 161

Delta R.T. -0.03 min

Lab File: VL036104.D

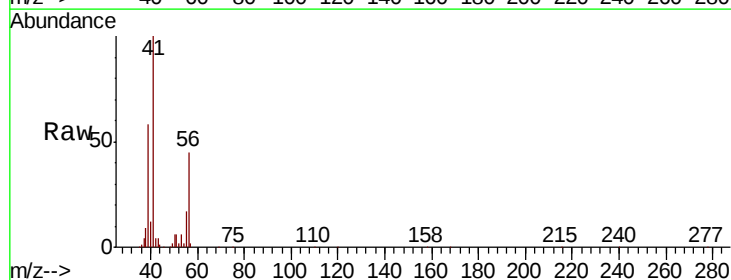
Acq: 8 Dec 2020 21:08

Tgt Ion: 39 Resp: 281200

Ion Ratio Lower Upper

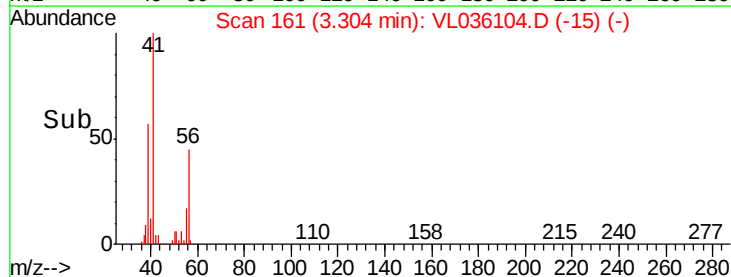
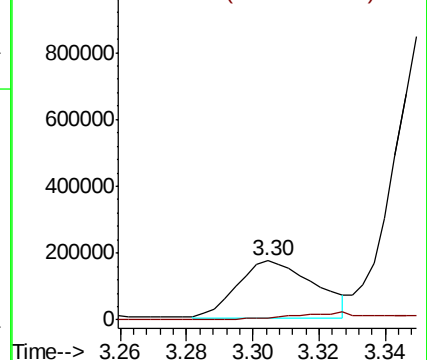
39 100

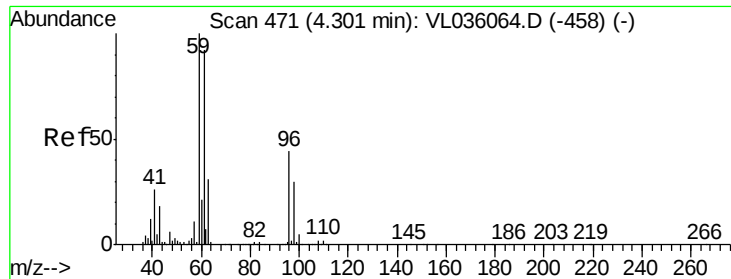
54 22.2 62.1 93.1#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0



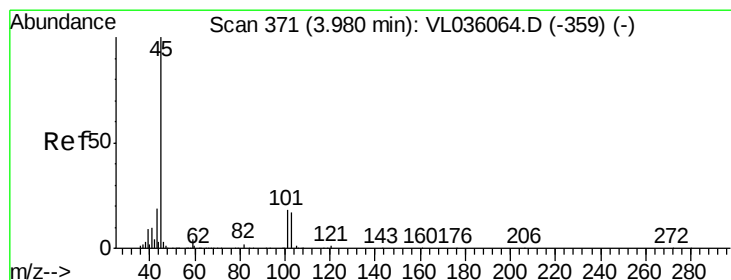
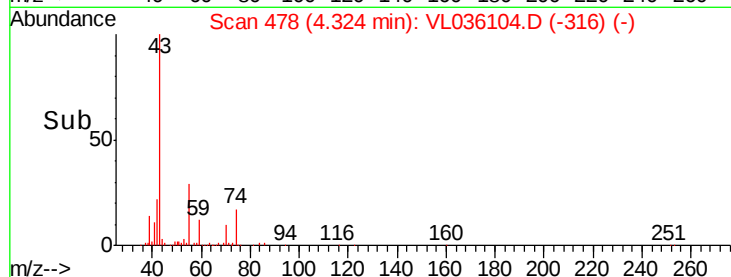
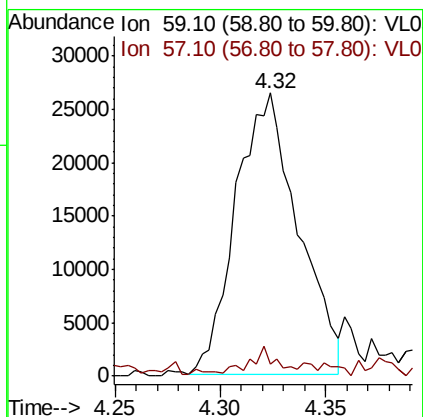
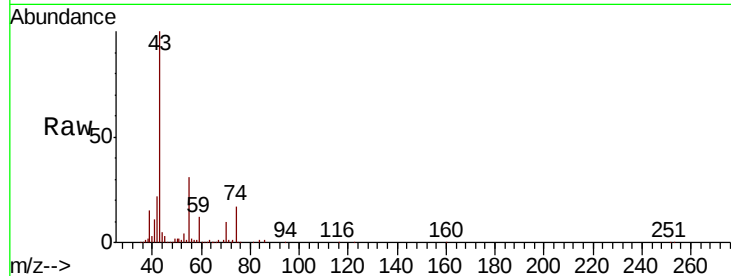


#17

tert-Butyl alcohol
Concen: 0.426 ppbv
RT: 4.32 min Scan# 478
Delta R.T. 0.02 min
Lab File: VL036104.D
Acq: 8 Dec 2020 21:08

Instrument :
MSVOA_L
ClientSampleId :
IA-2

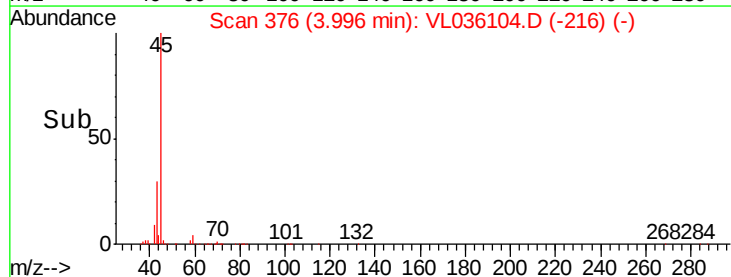
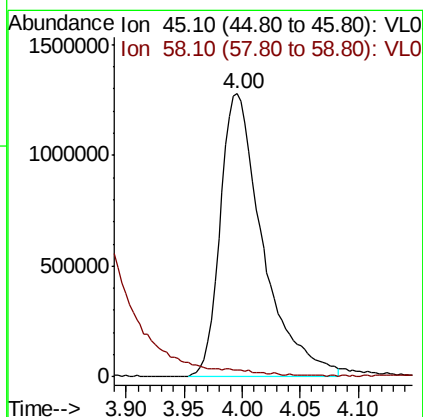
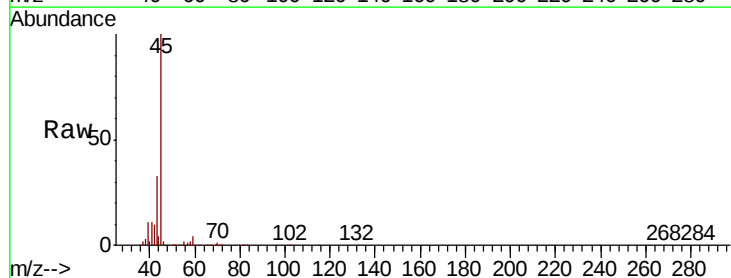
Tot Ion: 59 Resp: 54391
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#

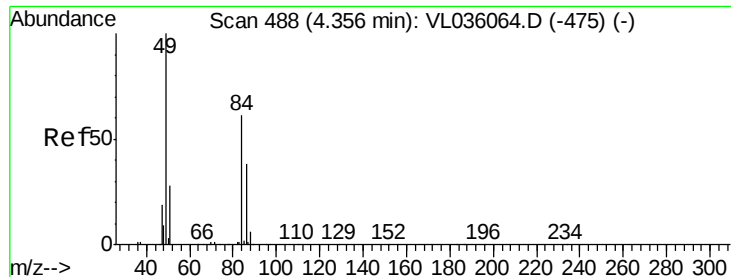


#19

Isopropyl Alcohol
Concen: 40.156 ppbv
RT: 4.00 min Scan# 376
Delta R.T. 0.02 min
Lab File: VL036104.D
Acq: 8 Dec 2020 21:08

Tgt Ion: 45 Resp: 3231380
Ion Ratio Lower Upper
45 100
58 0.0 0.0 0.0

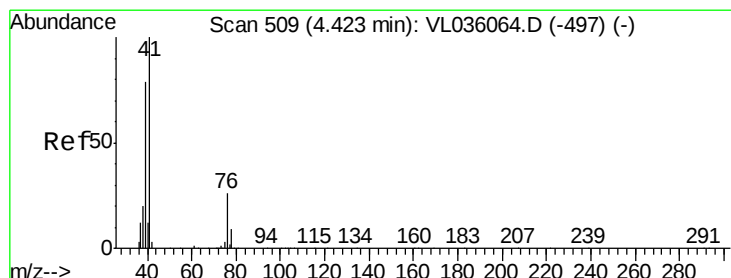
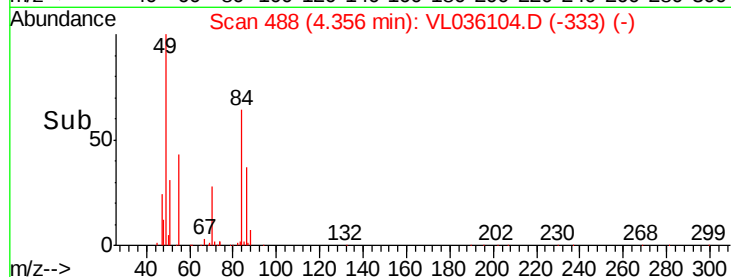
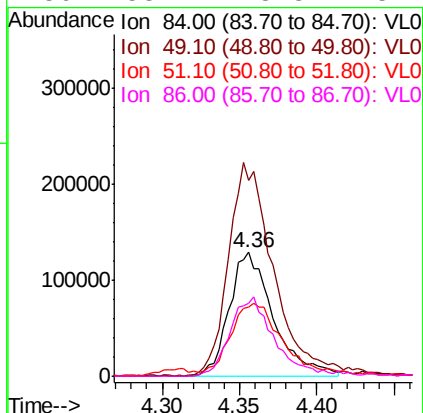
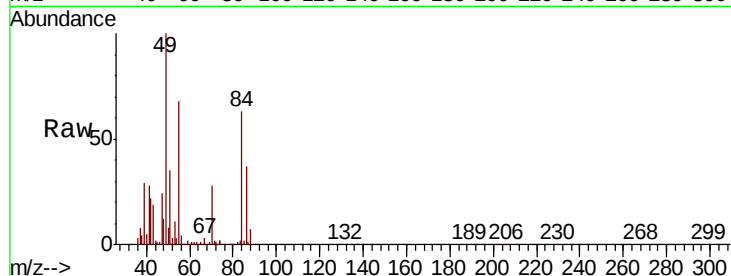




#20
Methylene Chloride
Concen: 4.729 ppbv
RT: 4.36 min Scan# 488
Delta R.T. -0.00 min
Lab File: VL036104.D
Acq: 8 Dec 2020 21:08

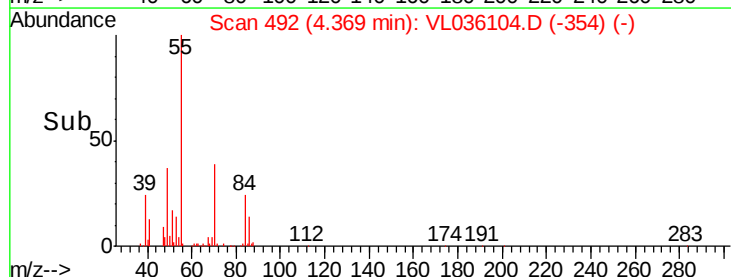
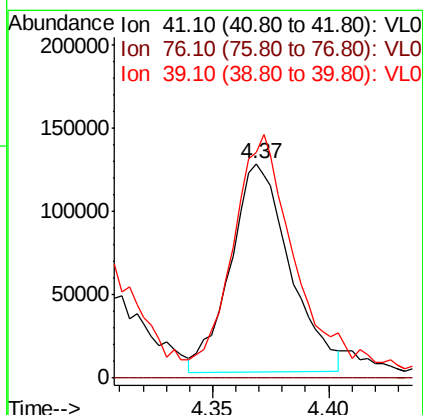
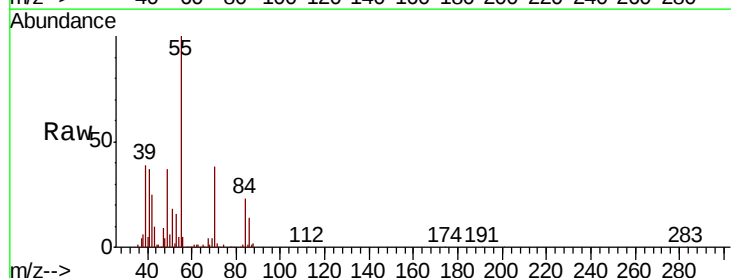
Instrument :
MSVOA_L
ClientSampleId :
IA-2

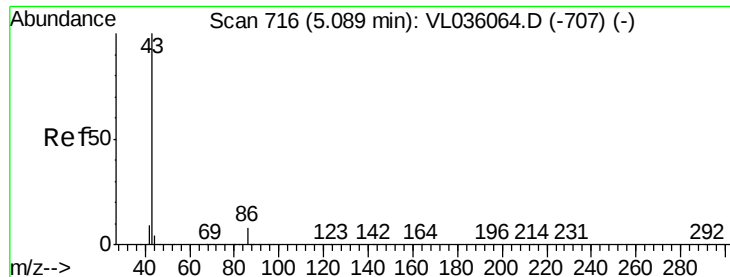
Tot Ion:	84	Resp:	255134
Ion	Ratio	Lower	Upper
84	100		
49	156.9	133.0	199.4
51	52.3	38.9	58.3
86	58.4	48.8	73.2



#21
Allyl Chloride
Concen: 2.528 ppbv
RT: 4.37 min Scan# 492
Delta R.T. -0.05 min
Lab File: VL036104.D
Acq: 8 Dec 2020 21:08

Tgt Ion:	41	Resp:	221328
Ion	Ratio	Lower	Upper
41	100		
76	0.0	21.0	31.4#
39	129.9	66.0	99.0#





#23

Vinyl Acetate

Concen: 5.607 ppbv

RT: 5.11 min Scan# 723

Delta R.T. 0.02 min

Lab File: VL036104.D

Acq: 8 Dec 2020 21:08

Instrument :

MSVOA_L

ClientSampleId :

IA-2

Tot Ion: 43 Resp: 982831

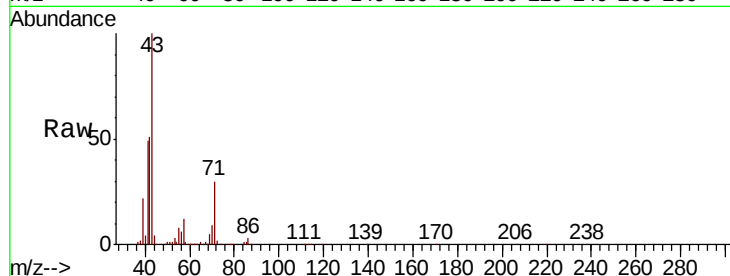
Ion Ratio Lower Upper

43 100

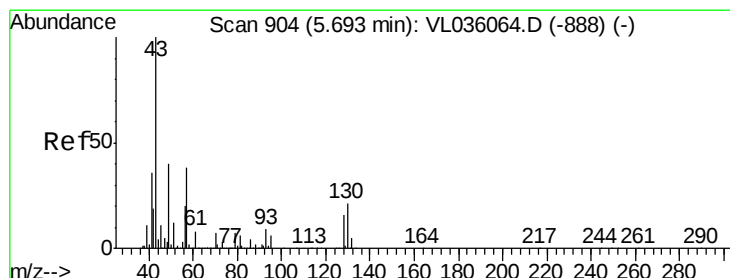
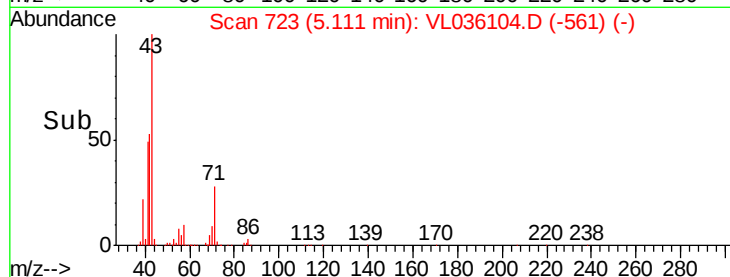
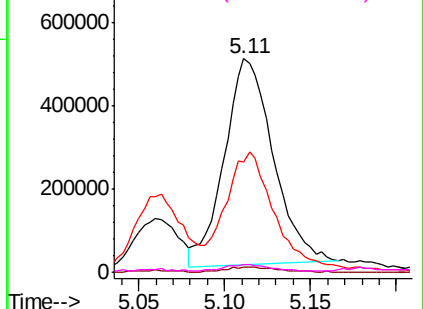
86 2.4 5.0 7.4#

42 51.0 7.8 11.6#

44 2.9 3.2 4.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0
800000
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: 34.225 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.01 min

Lab File: VL036104.D

Acq: 8 Dec 2020 21:08

Tgt Ion: 43 Resp: 9002134

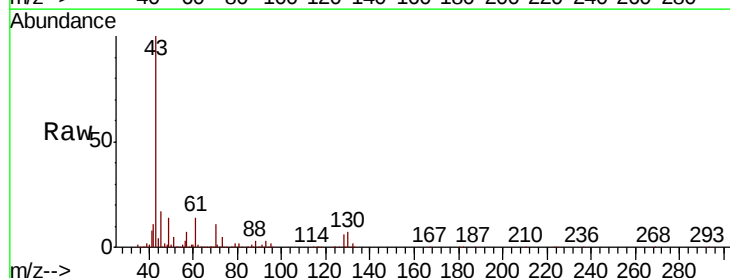
Ion Ratio Lower Upper

43 100

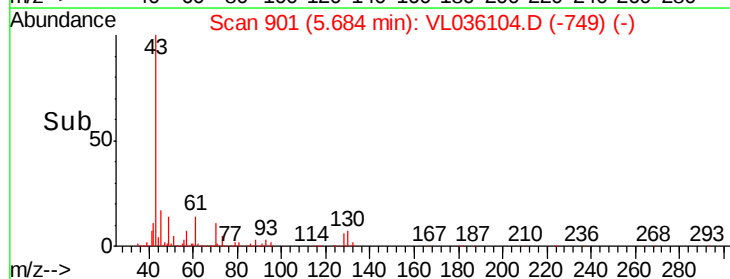
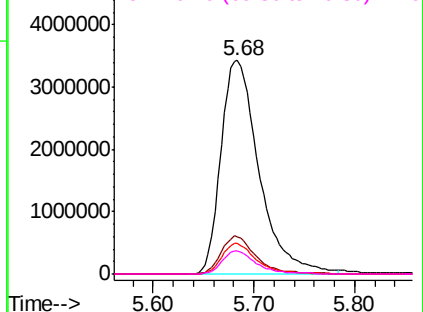
45 16.5 8.2 12.4#

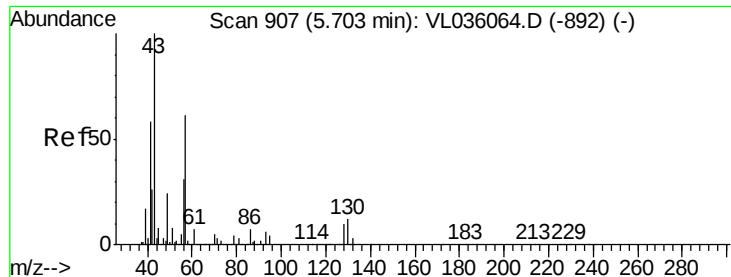
61 13.1 7.4 11.2#

70 9.8 5.4 8.0#



Abundance Ion 43.10 (42.80 to 43.80): VL0
5000000
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

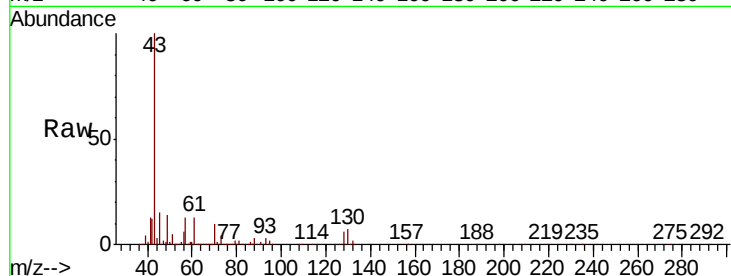




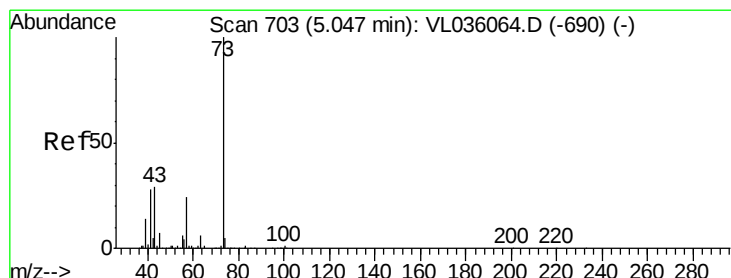
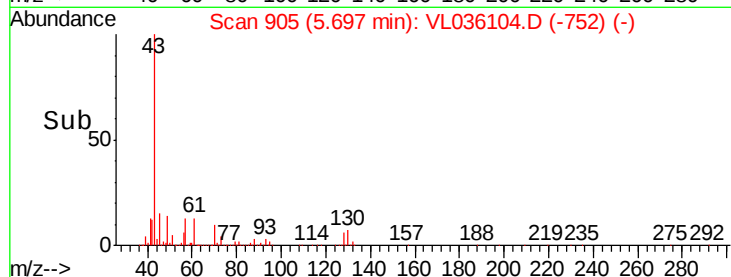
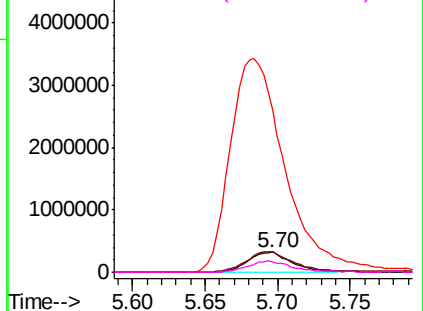
#26
Hexane
Concen: 5.646 ppbv
RT: 5.70 min Scan# 905
Delta R.T. -0.01 min
Lab File: VL036104.D
Acq: 8 Dec 2020 21:08

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tot Ion: 57 Resp: 668387
Ion Ratio Lower Upper
57 100
41 115.3 82.9 124.3
43 1366.1 199.9 299.9#
56 56.7 43.1 64.7

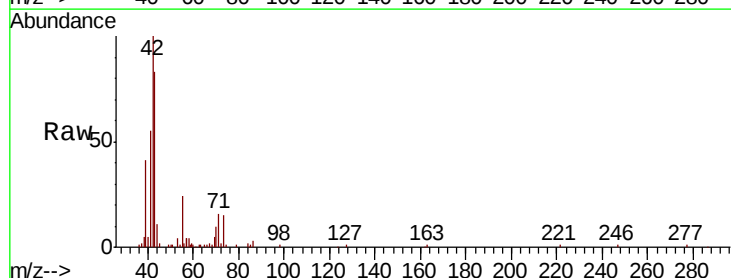


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

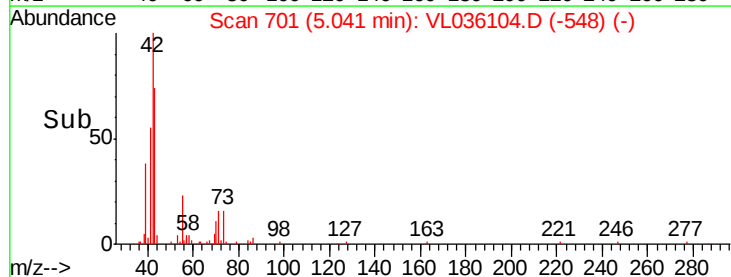
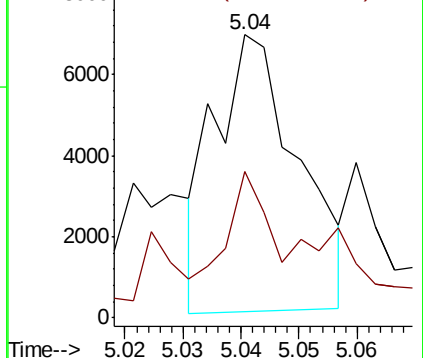


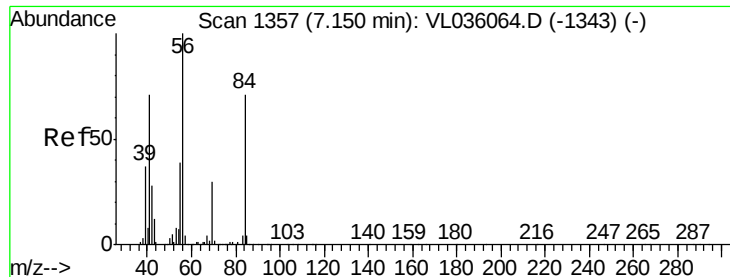
#28
Methyl tert-Butyl Ether
Concen: 0.041 ppbv
RT: 5.04 min Scan# 701
Delta R.T. -0.01 min
Lab File: VL036104.D
Acq: 8 Dec 2020 21:08

Tgt Ion: 73 Resp: 6841
Ion Ratio Lower Upper
73 100
57 0.0 19.2 28.8#



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0

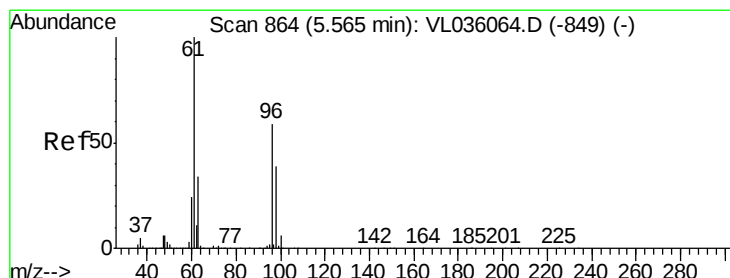
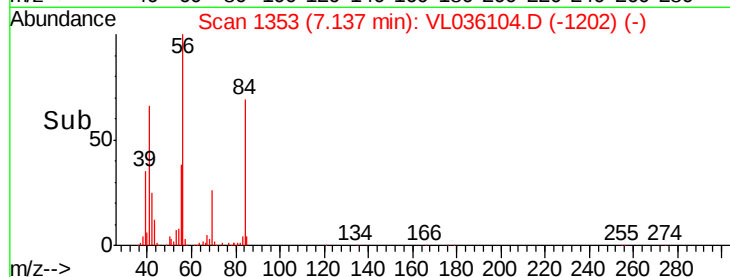
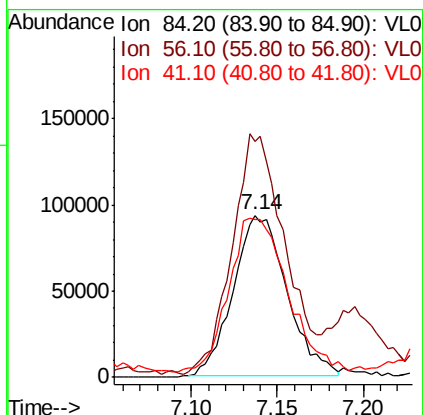
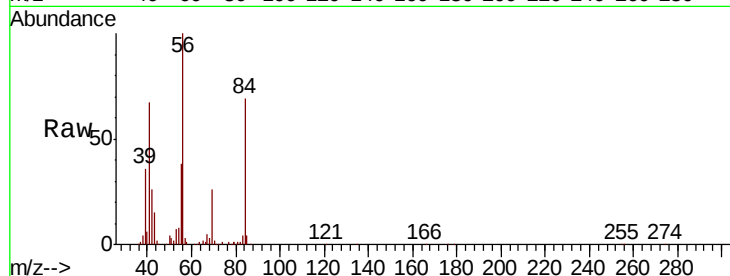




#30
Cvclohexane
Concen: 2.324 ppbv
RT: 7.14 min Scan# 1353
Delta R.T. -0.01 min
Lab File: VL036104.D
Acq: 8 Dec 2020 21:08

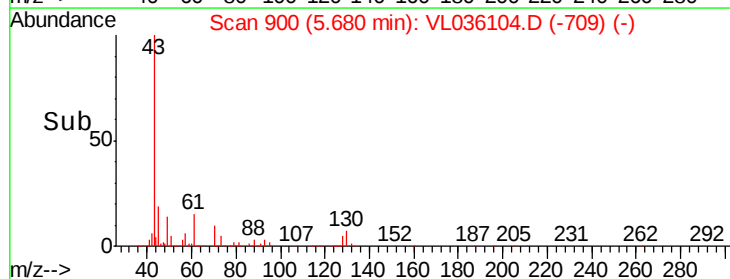
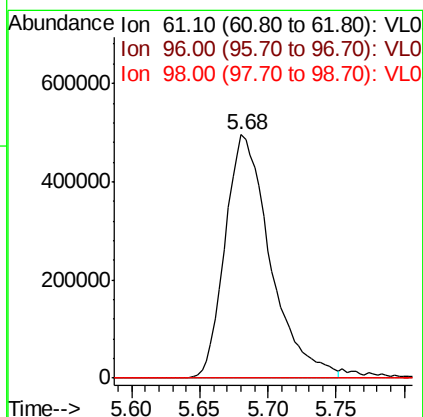
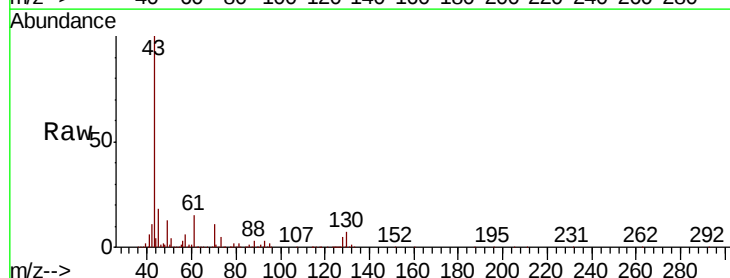
Instrument :
MSVOA_L
ClientSampleId :
IA-2

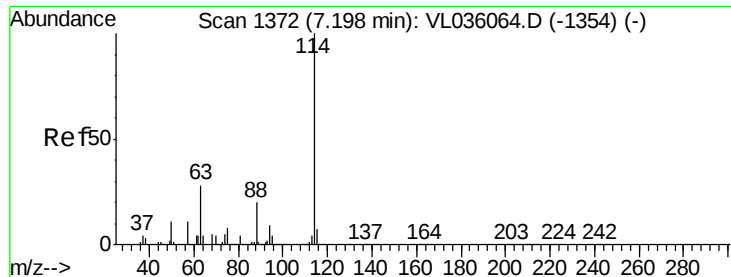
Tot Ion	Ratio	Lower	Upper
84	100		
56	153.8	128.0	192.0
41	113.0	81.3	121.9



#31
cis-1,2-Dichloroethene
Concen: 10.627 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.12 min
Lab File: VL036104.D
Acq: 8 Dec 2020 21:08

Tgt Ion	Ratio	Lower	Upper
61	100		
96	0.3	47.3	70.9#
98	0.0	31.4	47.0#

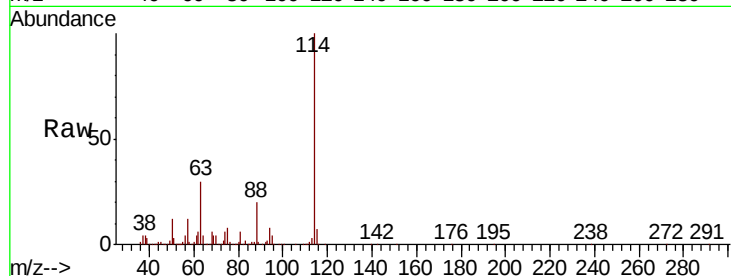




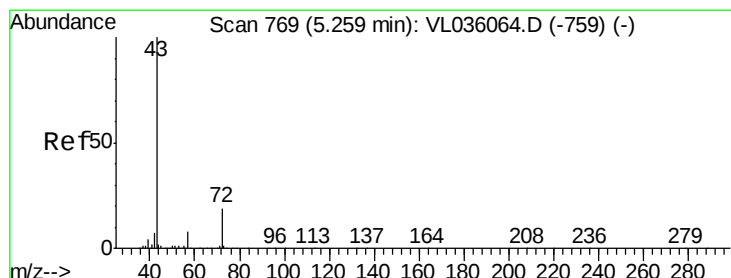
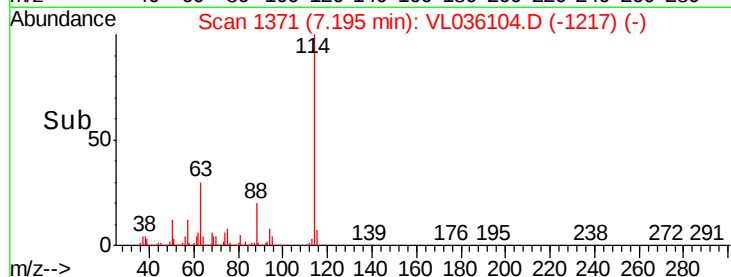
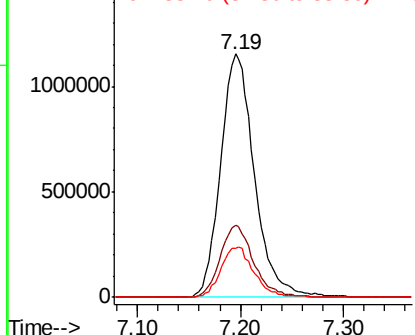
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1371
 Delta R.T. -0.00 min
 Lab File: VL036104.D
 Acq: 8 Dec 2020 21:08

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2

Tot Ion:114 Resp: 2614126
 Ion Ratio Lower Upper
 114 100
 63 30.0 23.6 35.4
 88 20.6 15.8 23.6

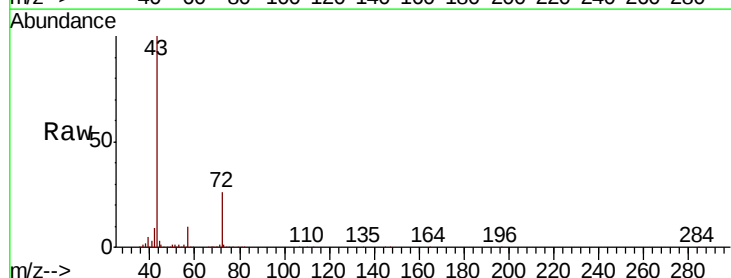


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

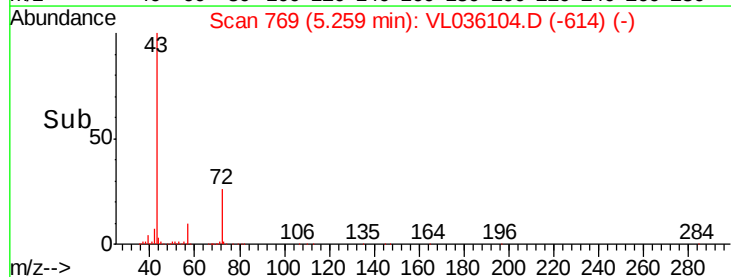
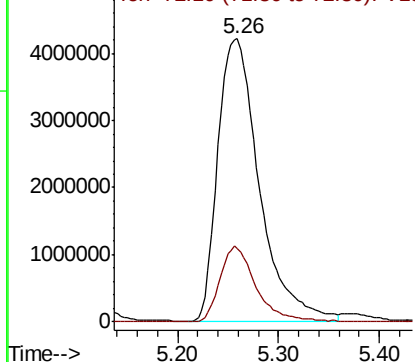


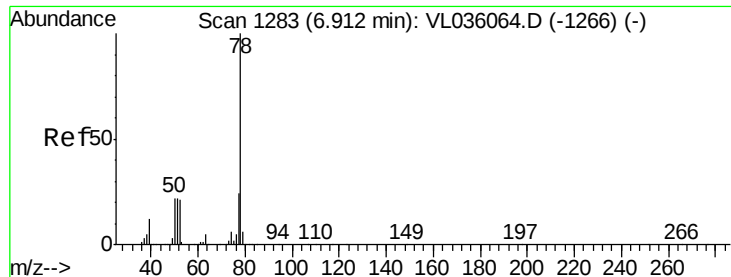
#34
 2-Butanone
 Concen: 69.753 ppbv
 RT: 5.26 min Scan# 769
 Delta R.T. -0.00 min
 Lab File: VL036104.D
 Acq: 8 Dec 2020 21:08

Tgt Ion: 43 Resp:12095185
 Ion Ratio Lower Upper
 43 100
 72 23.5 16.5 24.7



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





#36

Benzene

Concen: 1.711 ppbv

RT: 6.90 min Scan# 1280

Delta R.T. -0.01 min

Lab File: VL036104.D

Acq: 8 Dec 2020 21:08

Instrument :

MSVOA_L

ClientSampleId :

IA-2

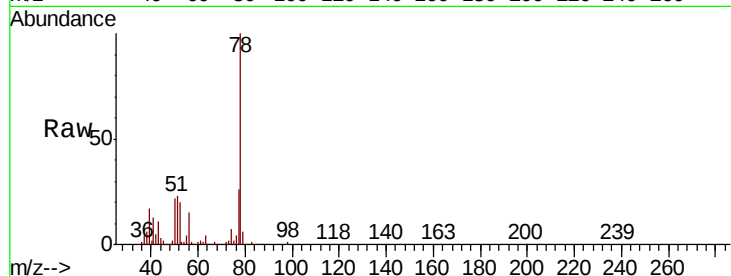
Tot Ion: 78 Resp: 379014

Ion Ratio Lower Upper

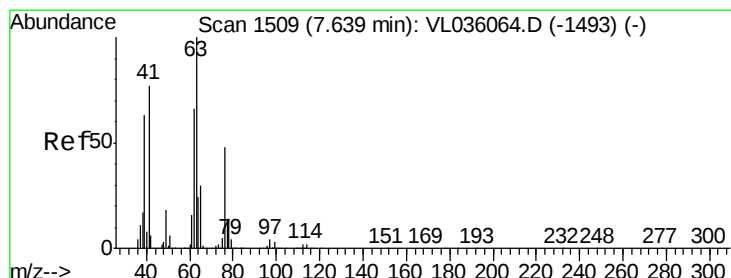
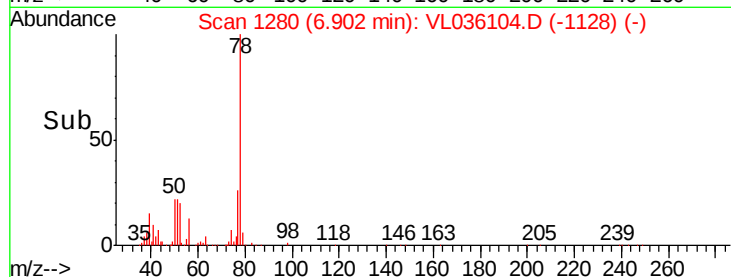
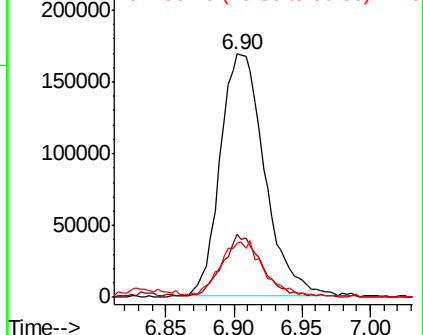
78 100

77 25.7 19.4 29.2

50 21.6 17.8 26.8



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



#39

1,2-Dichloropropane

Concen: 8.679 ppbv

RT: 7.19 min Scan# 1371

Delta R.T. -0.44 min

Lab File: VL036104.D

Acq: 8 Dec 2020 21:08

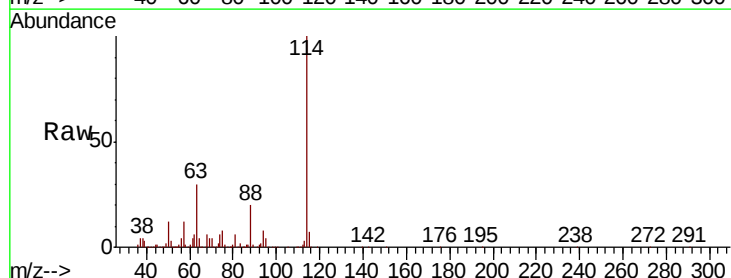
Tgt Ion: 63 Resp: 759373

Ion Ratio Lower Upper

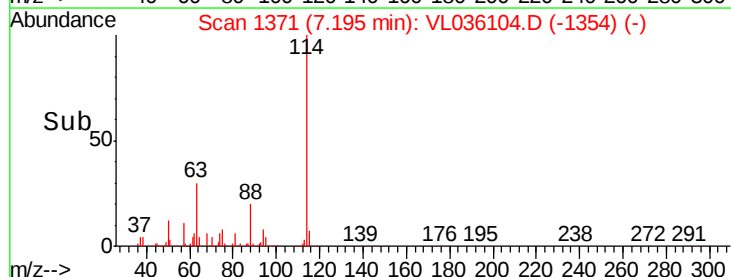
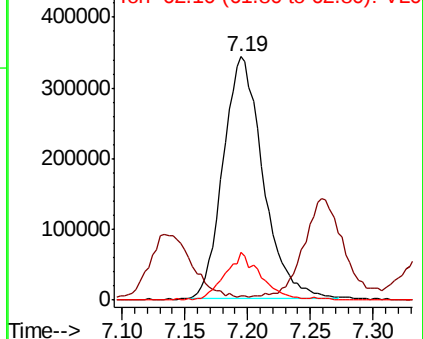
63 100

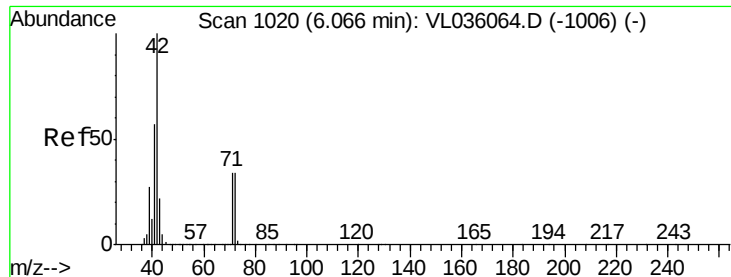
41 0.0 61.9 92.9#

62 19.2 52.5 78.7#



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

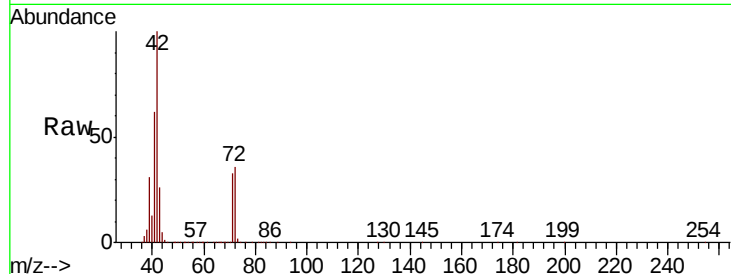




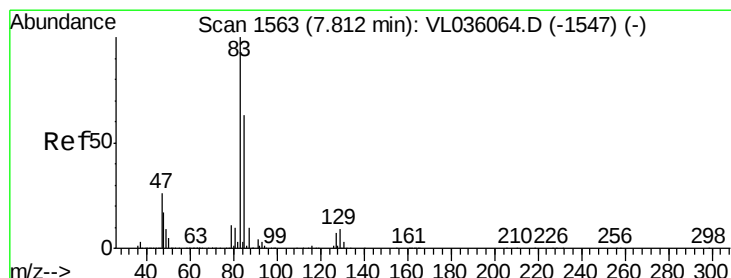
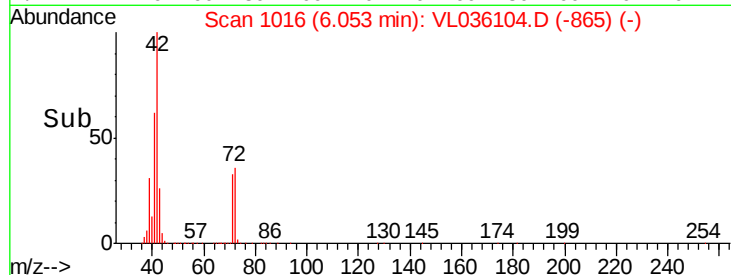
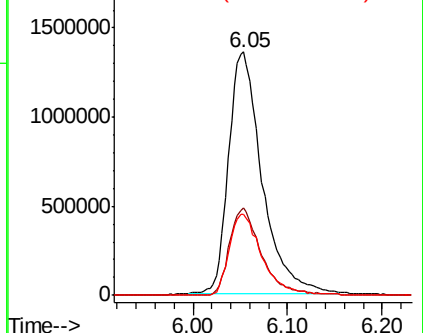
#41
Tetrahydrofuran
Concen: 32.562 ppbv
RT: 6.05 min Scan# 1016
Delta R.T. -0.01 min
Lab File: VL036104.D
Acq: 8 Dec 2020 21:08

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tot Ion: 42 Resp: 3354328
Ion Ratio Lower Upper
42 100
72 34.8 28.3 42.5
71 33.3 27.3 40.9

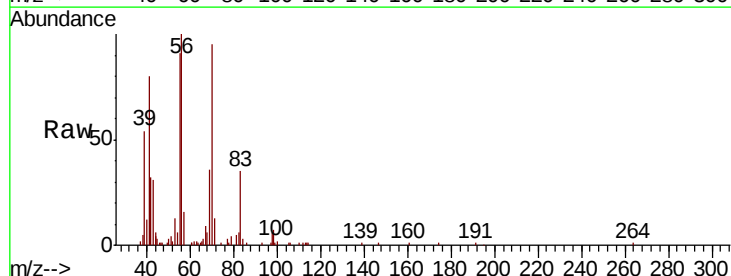


Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0

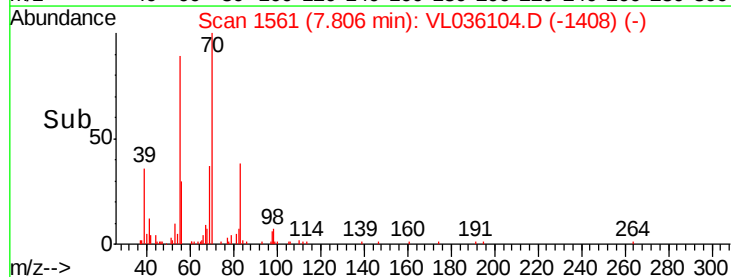
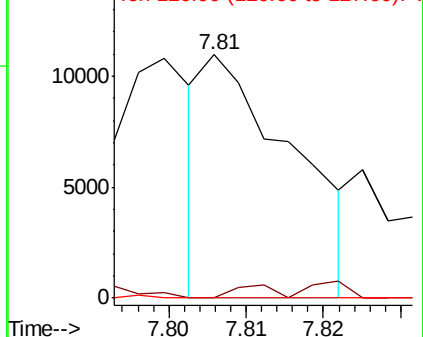


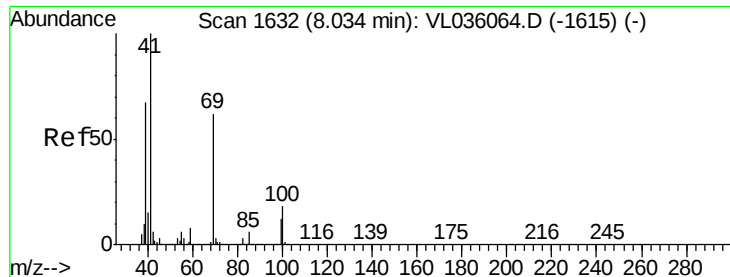
#42
Bromodichloromethane
Concen: 0.052 ppbv
RT: 7.81 min Scan# 1561
Delta R.T. -0.01 min
Lab File: VL036104.D
Acq: 8 Dec 2020 21:08

Tgt Ion: 83 Resp: 8845
Ion Ratio Lower Upper
83 100
85 0.0 50.2 75.2#
127 0.0 5.5 8.3#



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V

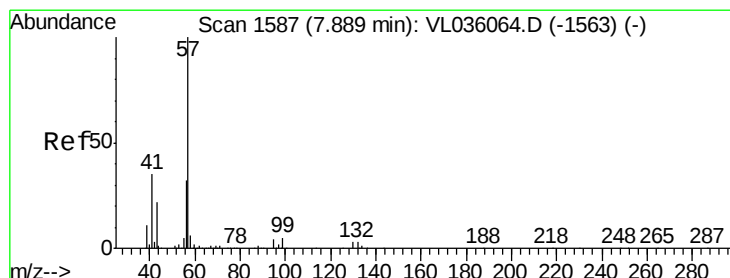
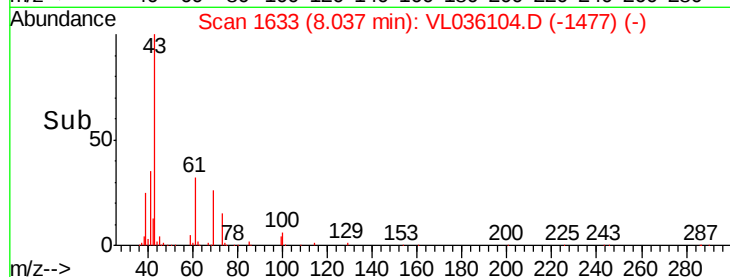
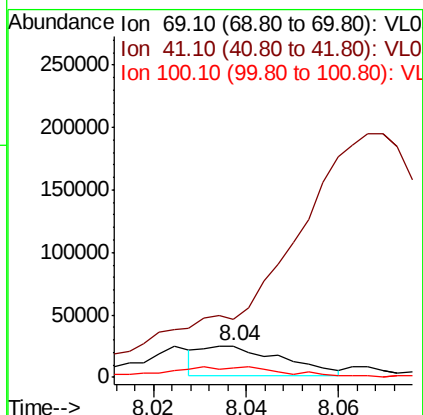
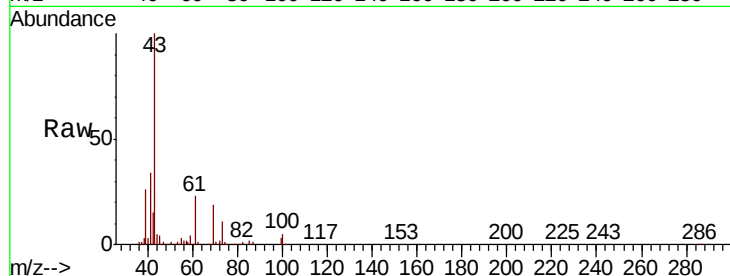




#43
Methvl Methacrilate
Concen: 0.306 ppbv
RT: 8.04 min Scan# 1633
Delta R.T. 0.00 min
Lab File: VL036104.D
Acq: 8 Dec 2020 21:08

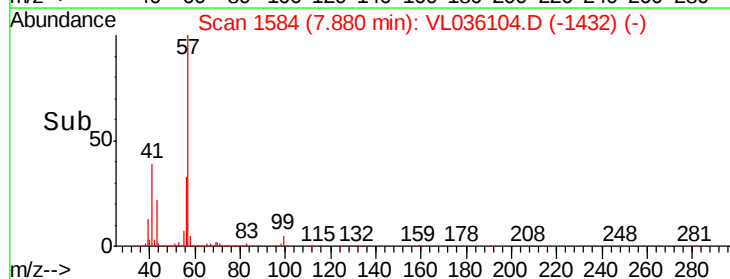
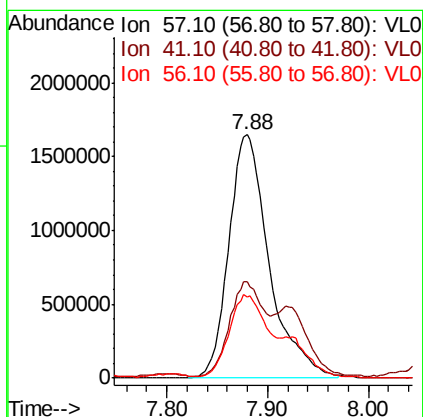
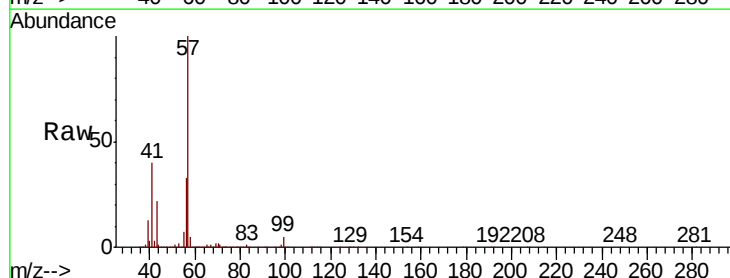
Instrument :
MSVOA_L
ClientSampled :
IA-2

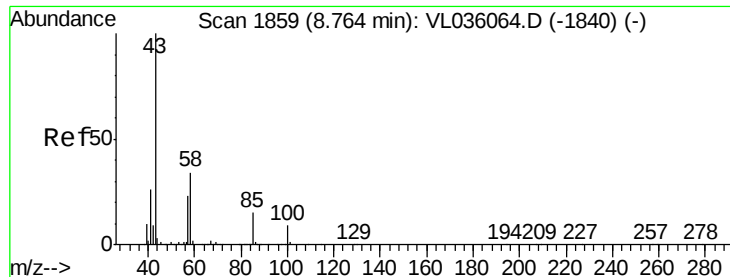
Tot Ion: 69 Resp: 29097
Ion Ratio Lower Upper
69 100
41 0.0 133.0 199.6#
100 56.5 25.4 38.0#



#44
2,2,4-Trimethylpentane
Concen: 11.349 ppbv
RT: 7.88 min Scan# 1584
Delta R.T. -0.01 min
Lab File: VL036104.D
Acq: 8 Dec 2020 21:08

Tgt Ion: 57 Resp: 4553387
Ion Ratio Lower Upper
57 100
41 35.7 28.9 43.3
56 43.8 25.3 37.9#

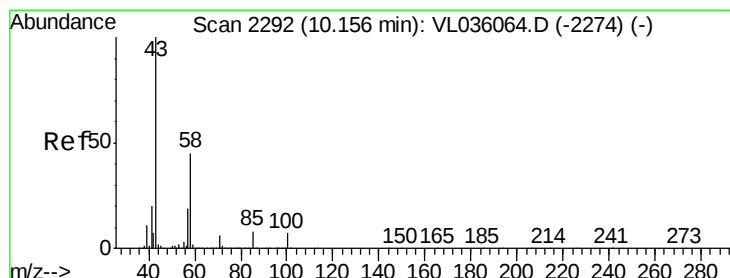
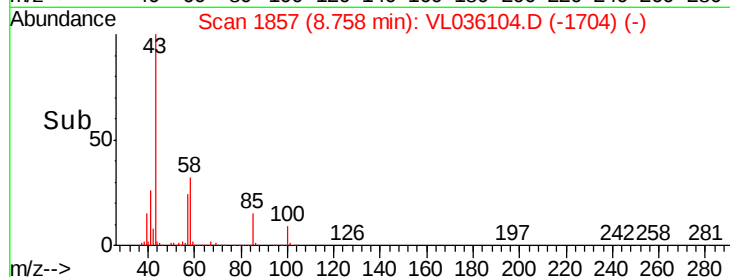
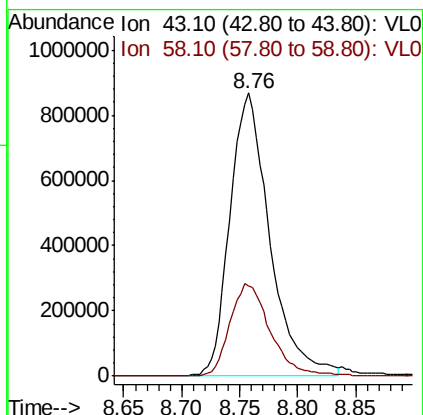
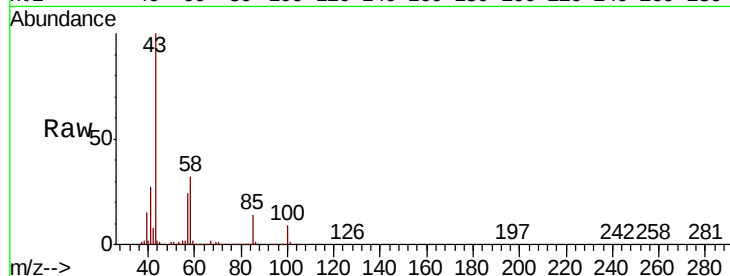




#50
4-Methyl-2-Pentanone
Concen: 7.951 ppbv
RT: 8.76 min Scan# 1857
Delta R.T. -0.01 min
Lab File: VL036104.D
Acq: 8 Dec 2020 21:08

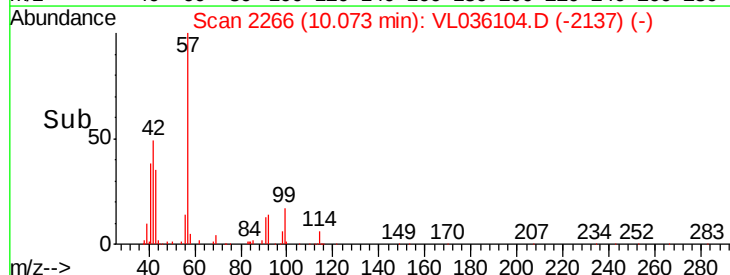
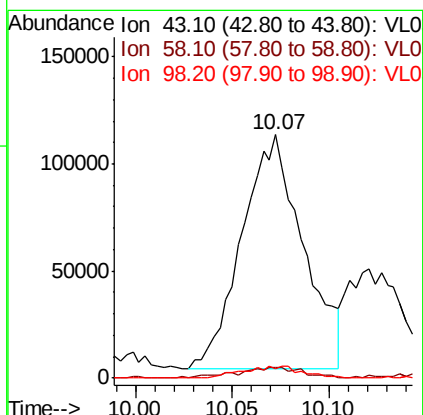
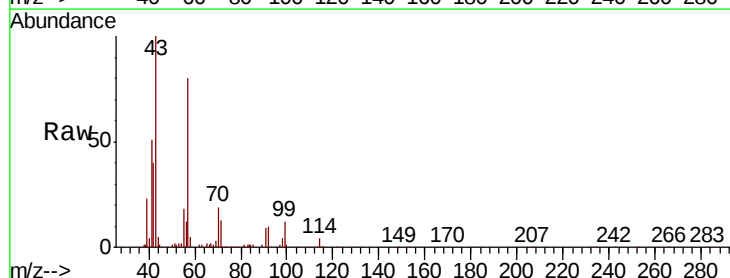
Instrument :
MSVOA_L
ClientSampleId :
IA-2

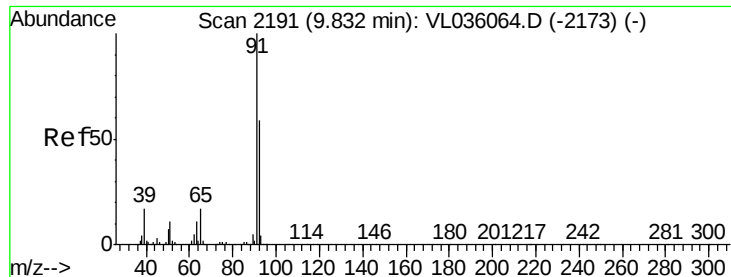
Tot Ion: 43 Resp: 2056022
Ion Ratio Lower Upper
43 100
58 33.6 27.4 41.2



#51
2-Hexanone
Concen: 1.197 ppbv
RT: 10.07 min Scan# 2266
Delta R.T. -0.08 min
Lab File: VL036104.D
Acq: 8 Dec 2020 21:08

Tgt Ion: 43 Resp: 242009
Ion Ratio Lower Upper
43 100
58 5.3 38.7 58.1#
98 5.1 0.1 0.1#





#53

Toluene

Concen: 87.804 ppbv

RT: 9.84 min Scan# 2193

Delta R.T. 0.01 min

Lab File: VL036104.D

Acq: 8 Dec 2020 21:08

Instrument :

MSVOA_L

ClientSampleId :

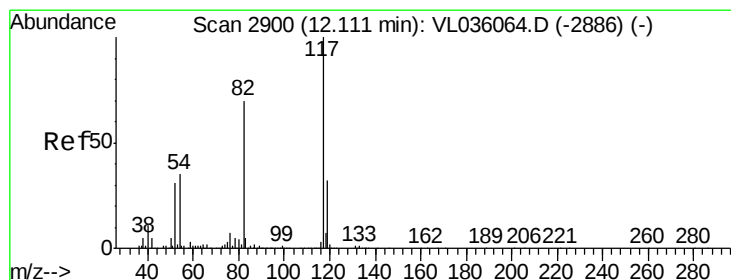
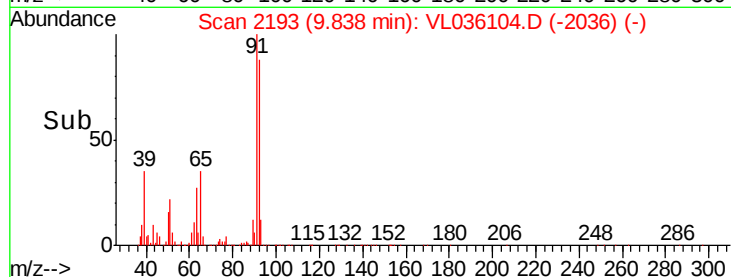
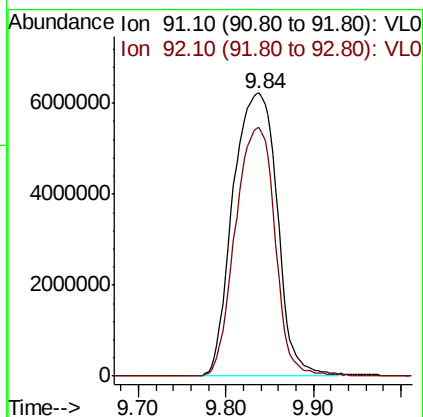
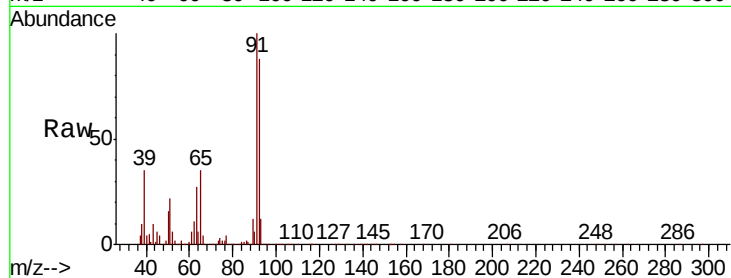
IA-2

Tot Ion: 91 Resp: 21843002

Ion Ratio Lower Upper

91 100

92 79.1 48.2 72.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2898

Delta R.T. -0.01 min

Lab File: VL036104.D

Acq: 8 Dec 2020 21:08

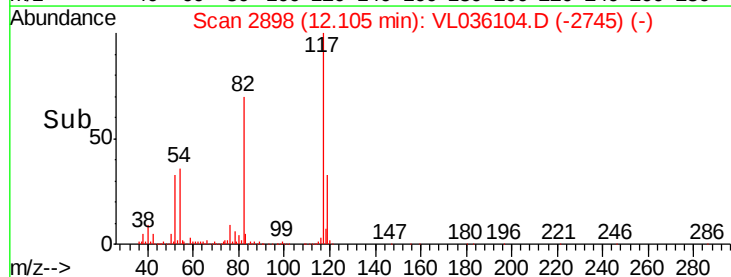
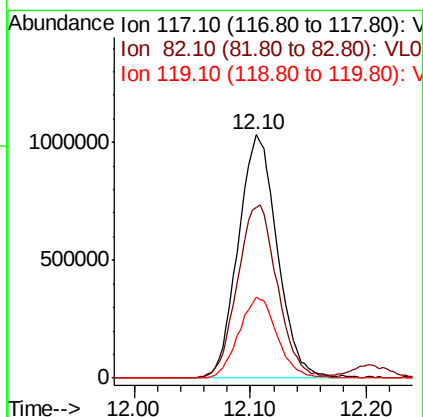
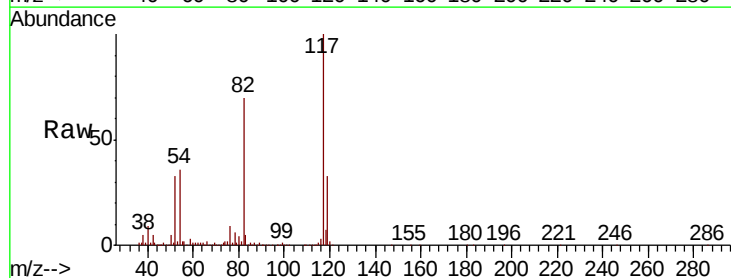
Tgt Ion: 117 Resp: 2420038

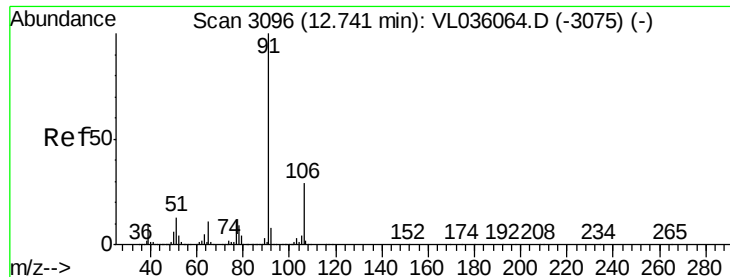
Ion Ratio Lower Upper

117 100

82 72.8 0.0 0.0#

119 32.8 0.0 0.0#





#58

Ethyl Benzene

Concen: 14.040 ppbv

RT: 12.73 min Scan# 3093

Delta R.T. -0.01 min

Lab File: VL036104.D

Acq: 8 Dec 2020 21:08

Instrument :

MSVOA_L

ClientSampled :

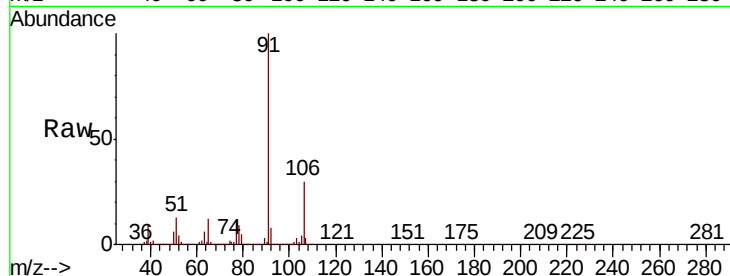
IA-2

Tot Ion: 91 Resp: 4656330

Ion Ratio Lower Upper

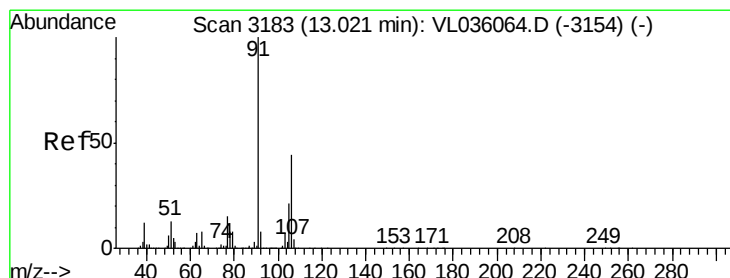
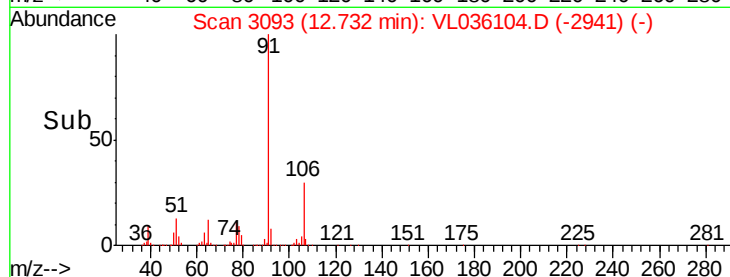
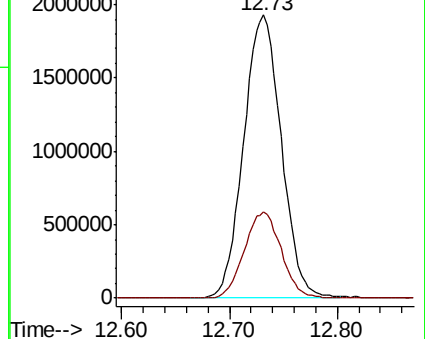
91 100

106 30.4 23.0 34.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 43.829 ppbv

RT: 12.99 min Scan# 3173

Delta R.T. -0.03 min

Lab File: VL036104.D

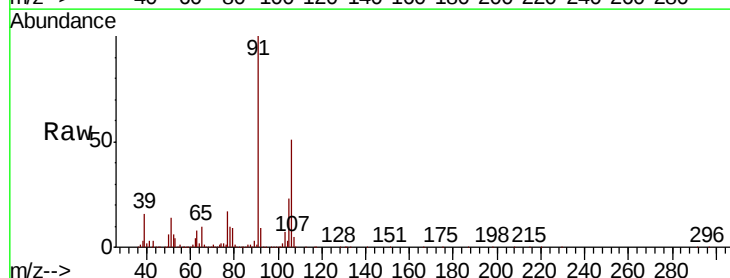
Acq: 8 Dec 2020 21:08

Tgt Ion: 91 Resp: 12242924

Ion Ratio Lower Upper

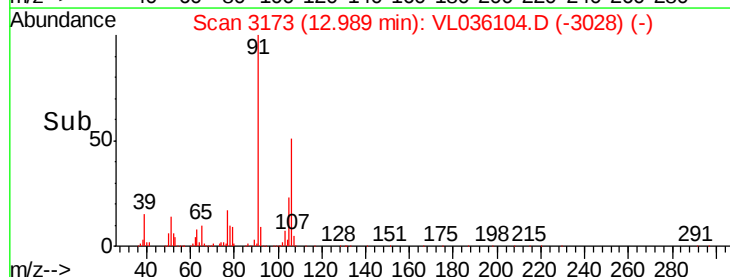
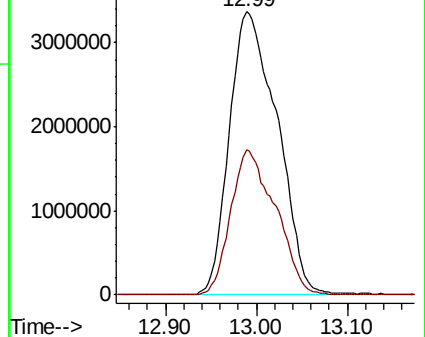
91 100

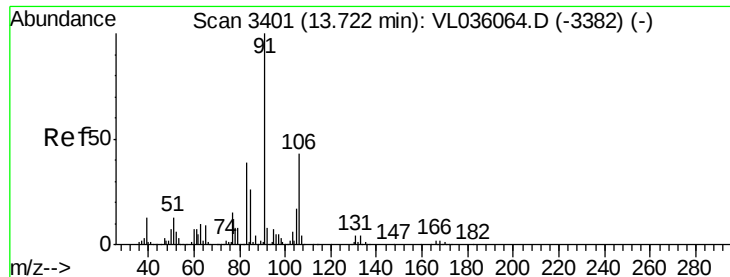
106 48.3 33.6 50.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

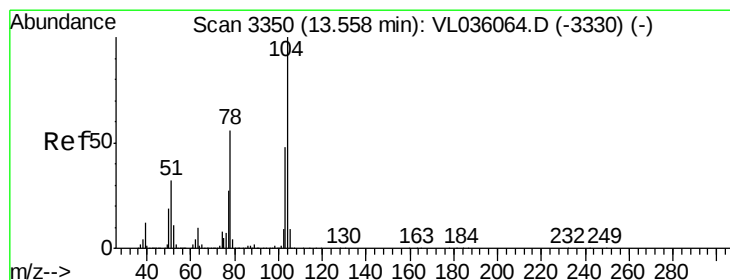
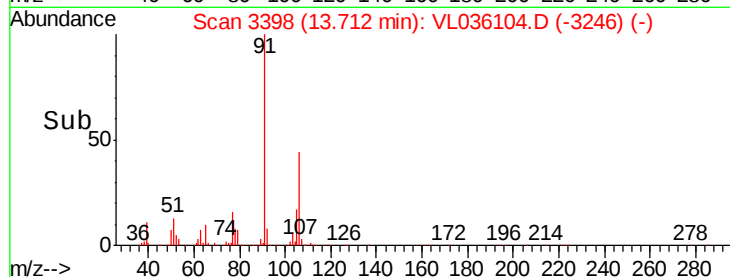
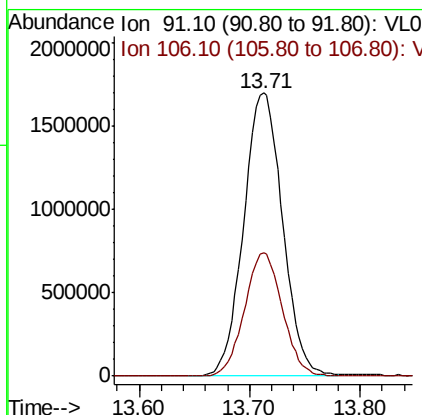
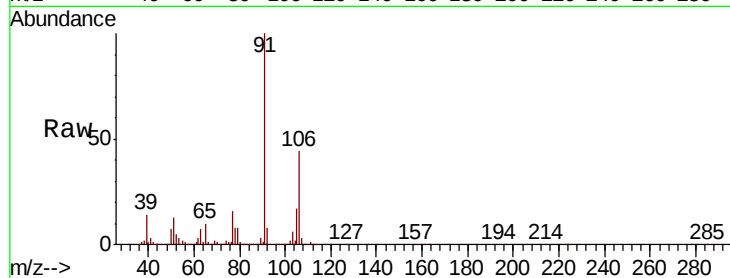




#60
o-Xylene
Concen: 15.760 ppbv
RT: 13.71 min Scan# 3398
Delta R.T. -0.01 min
Lab File: VL036104.D
Acq: 8 Dec 2020 21:08

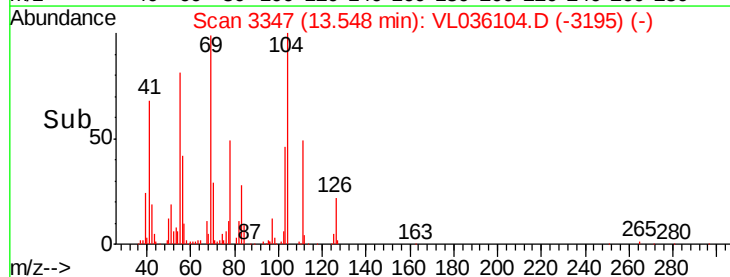
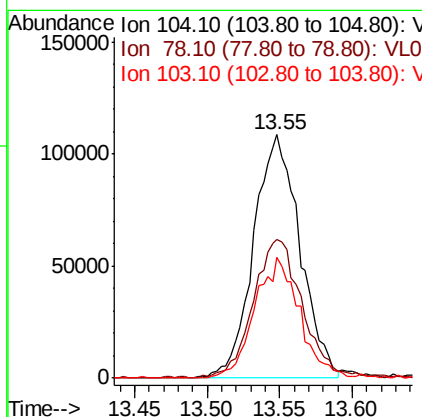
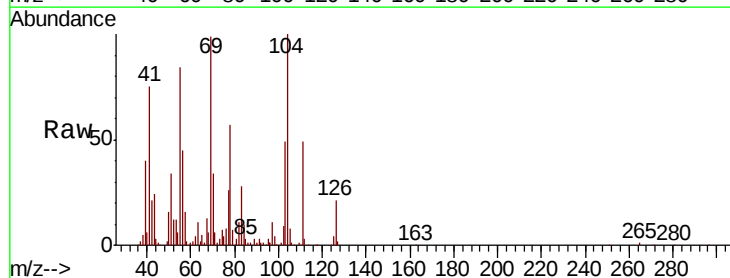
Instrument :
MSVOA_L
ClientSampleId :
IA-2

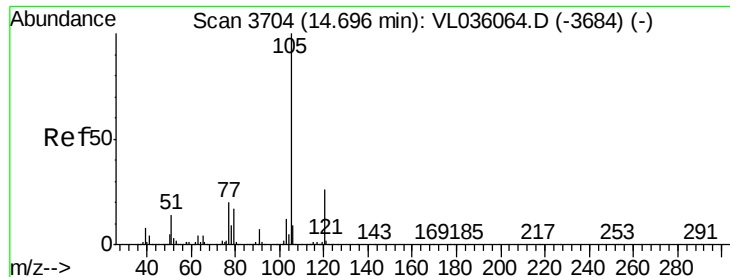
Tot Ion: 91 Resp: 4147696
Ion Ratio Lower Upper
91 100
106 42.5 21.6 64.6



#61
Styrene
Concen: 1.426 ppbv
RT: 13.55 min Scan# 3347
Delta R.T. -0.01 min
Lab File: VL036104.D
Acq: 8 Dec 2020 21:08

Tgt Ion: 104 Resp: 240905
Ion Ratio Lower Upper
104 100
78 61.8 45.8 68.8
103 48.5 38.6 57.8





#62

Isopropylbenzene

Concen: 1.289 ppbv

RT: 14.69 min Scan# 3702

Delta R.T. -0.01 min

Lab File: VL036104.D

Acq: 8 Dec 2020 21:08

Instrument :

MSVOA_L

ClientSampleId :

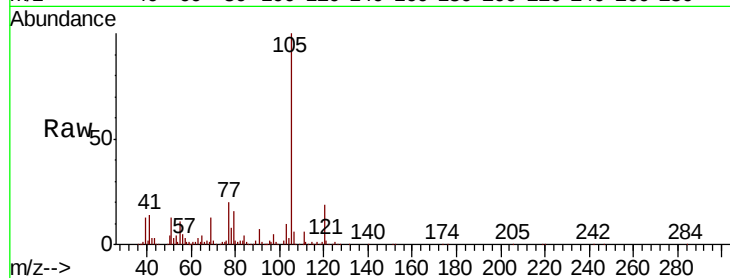
IA-2

Tot Ion:105 Resp: 502996

Ion Ratio Lower Upper

105 100

120 23.9 20.1 30.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

14.69

250000

200000

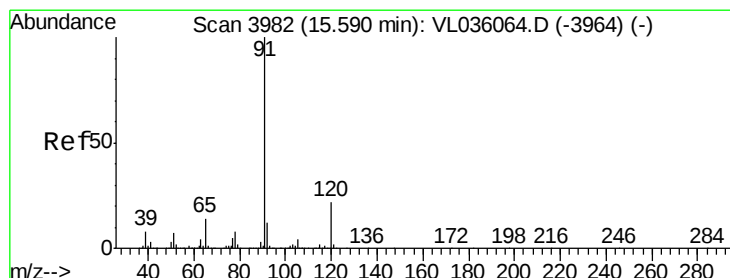
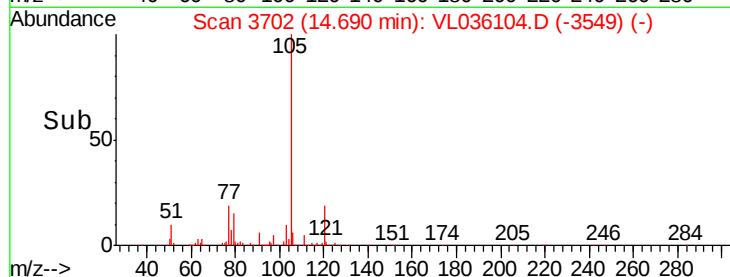
150000

100000

50000

0

Time-->



#64

n-propylbenzene

Concen: 5.543 ppbv

RT: 15.58 min Scan# 3980

Delta R.T. -0.01 min

Lab File: VL036104.D

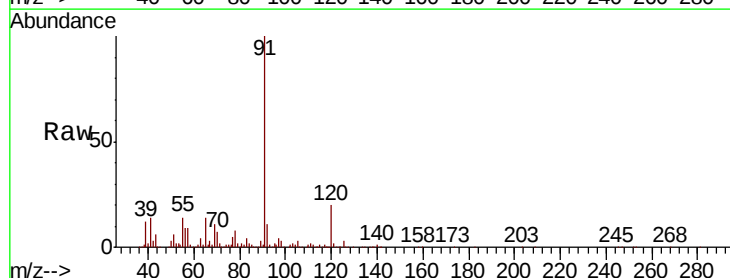
Acq: 8 Dec 2020 21:08

Tgt Ion:120 Resp: 520275

Ion Ratio Lower Upper

120 100

91 509.6 388.9 583.3



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

1200000

1000000

800000

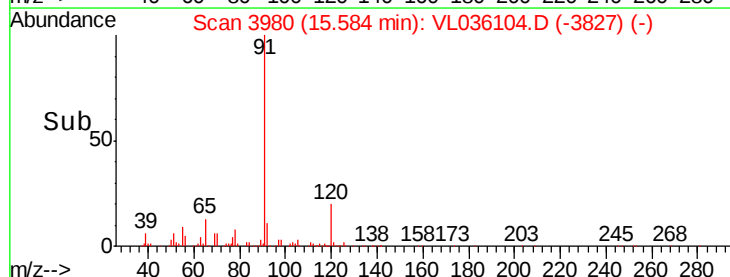
600000

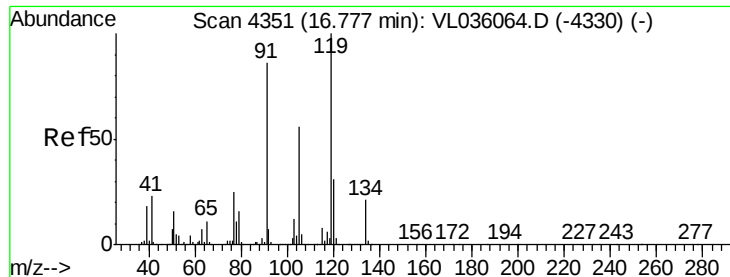
400000

200000

0

Time-->





#65

tert-Butylbenzene

Concen: 2.444 ppbv

RT: 16.79 min Scan# 4354

Delta R.T. 0.01 min

Lab File: VL036104.D

Acq: 8 Dec 2020 21:08

Instrument :

MSVOA_L

ClientSampleId :

IA-2

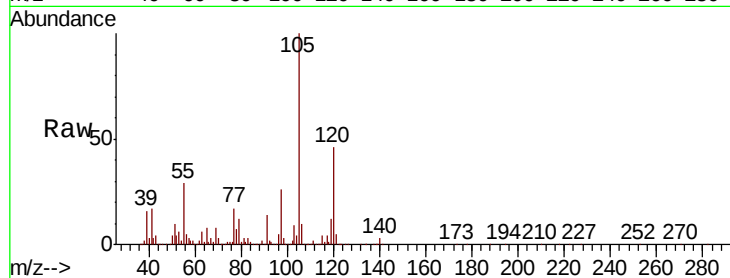
Tot Ion:119 Resp: 780452

Ion Ratio Lower Upper

119 100

91 117.1 70.2 105.2#

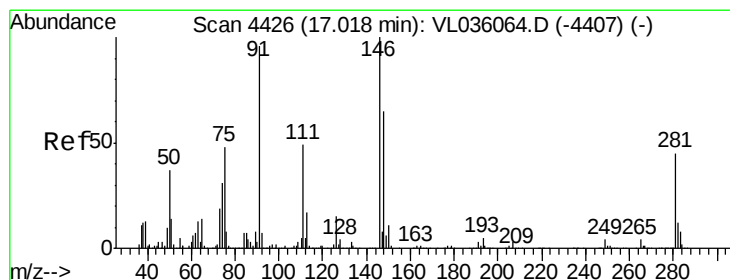
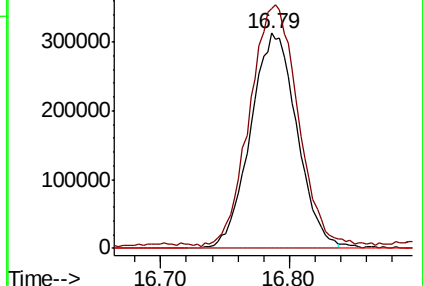
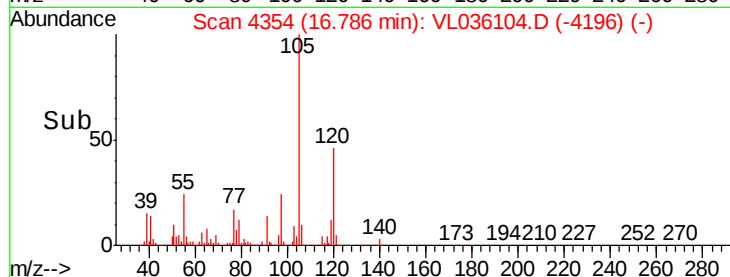
134 0.1 15.8 23.6#



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



#66

Benzyl Chloride

Concen: 11.503 ppbv

RT: 16.79 min Scan# 4355

Delta R.T. -0.23 min

Lab File: VL036104.D

Acq: 8 Dec 2020 21:08

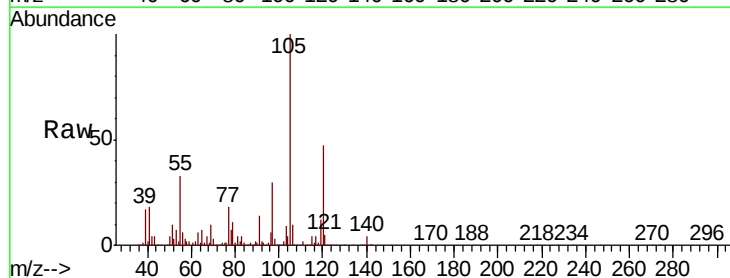
Tgt Ion: 91 Resp: 914631

Ion Ratio Lower Upper

91 100

126 0.2 13.5 20.3#

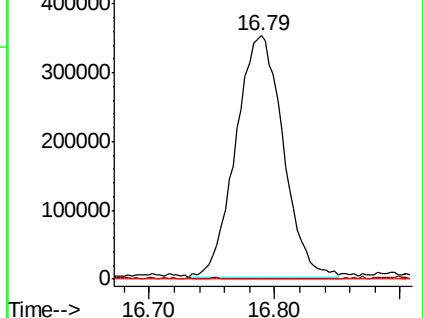
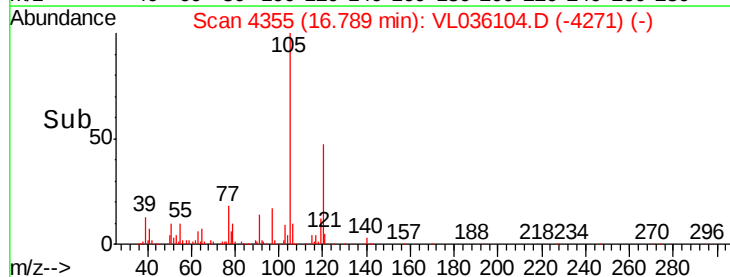
128 0.0 4.4 6.6#

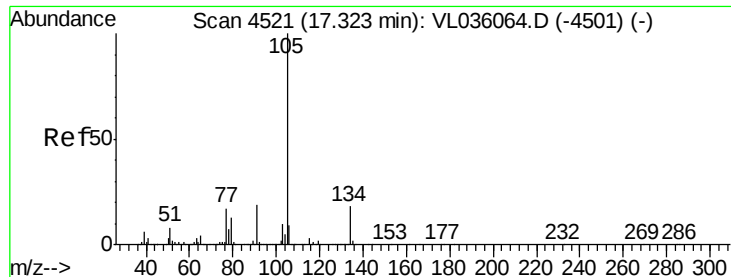


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 0.194 ppbv

RT: 17.32 min Scan# 4521

Delta R.T. -0.00 min

Lab File: VL036104.D

Acq: 8 Dec 2020 21:08

Instrument :

MSVOA_L

ClientSampleID :

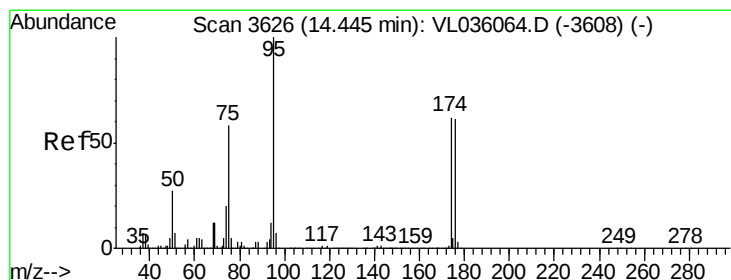
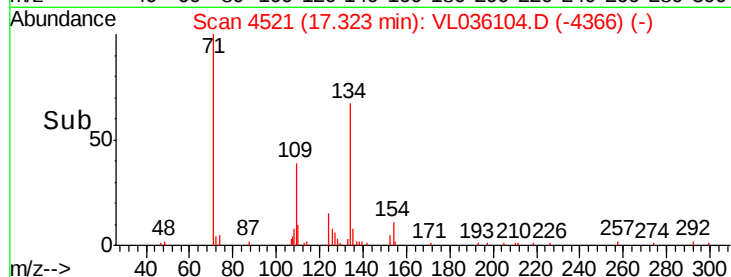
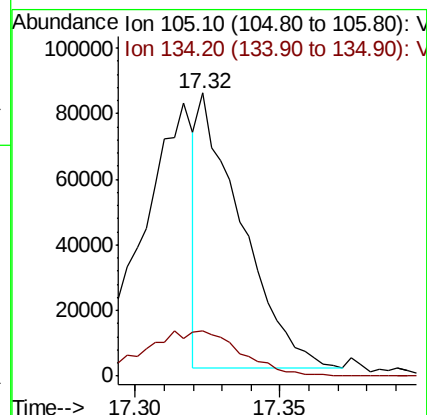
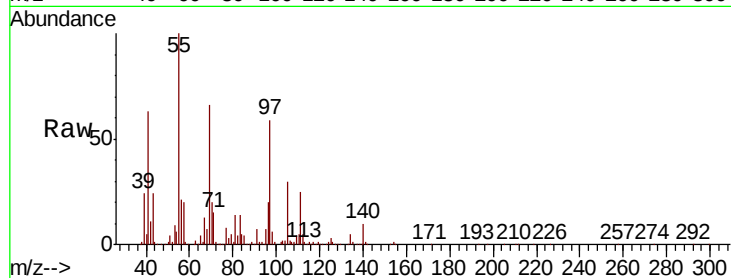
IA-2

Tot Ion: 105 Resp: 86517

Ion Ratio Lower Upper

105 100

134 38.0 14.2 21.4#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.888 ppbv

RT: 14.44 min Scan# 3623

Delta R.T. -0.01 min

Lab File: VL036104.D

Acq: 8 Dec 2020 21:08

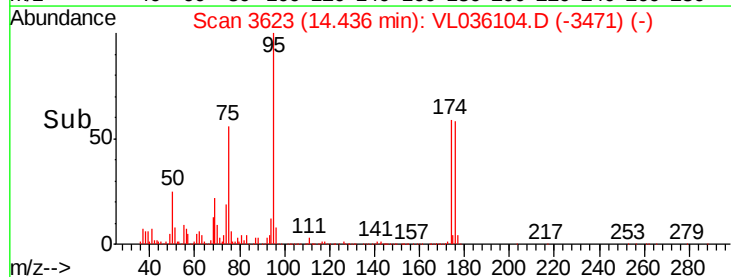
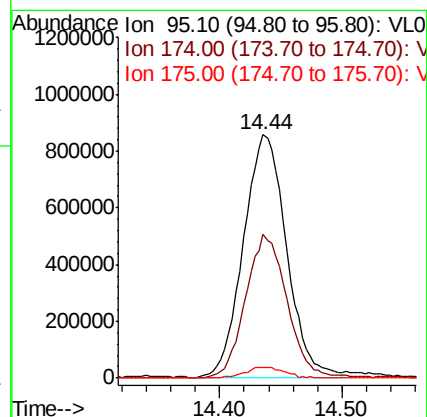
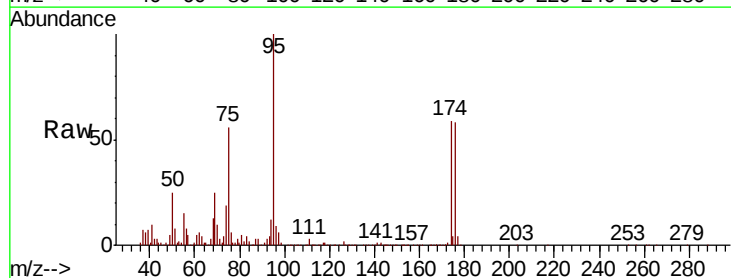
Tgt Ion: 95 Resp: 2092347

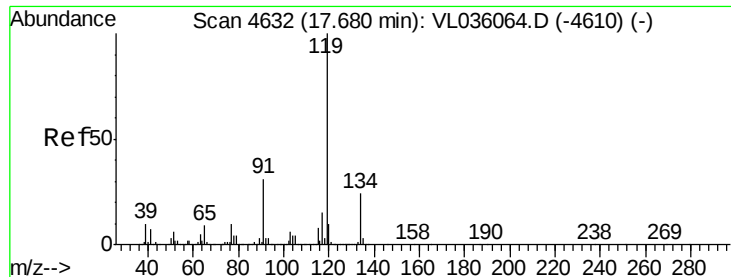
Ion Ratio Lower Upper

95 100

174 56.9 50.7 76.1

175 4.2 4.0 6.0





#69

p-Isopropyltoluene

Concen: 0.668 ppbv

RT: 17.56 min Scan# 4596

Delta R.T. -0.12 min

Lab File: VL036104.D

Acq: 8 Dec 2020 21:08

Instrument :

MSVOA_L

ClientSampled :

IA-2

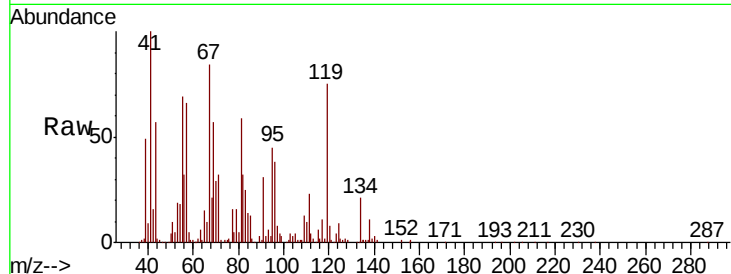
Tot Ion:119 Resp: 237443

Ion Ratio Lower Upper

119 100

134 25.8 19.8 29.6

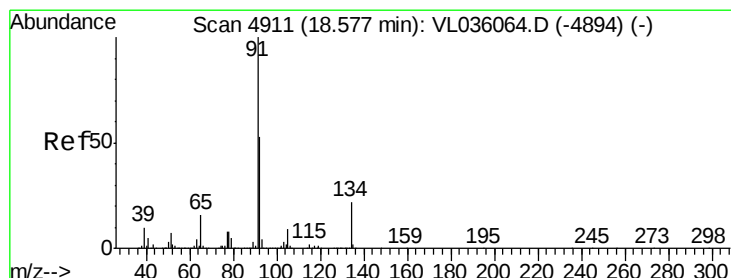
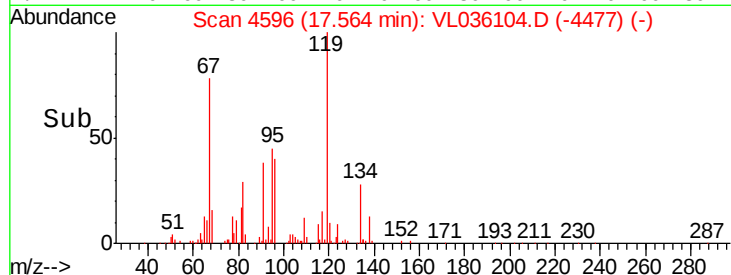
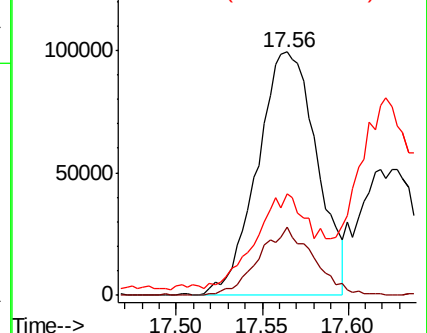
91 37.9 25.8 38.6



Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 0.429 ppbv

RT: 18.57 min Scan# 4910

Delta R.T. -0.00 min

Lab File: VL036104.D

Acq: 8 Dec 2020 21:08

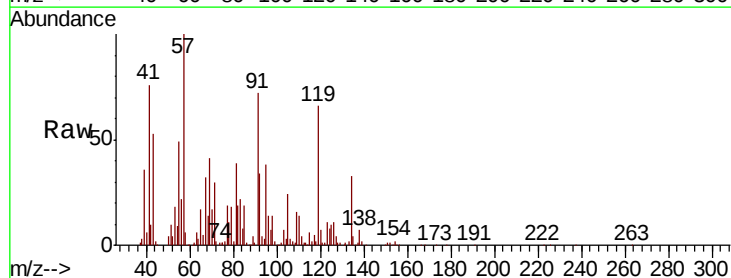
Tgt Ion: 91 Resp: 150865

Ion Ratio Lower Upper

91 100

92 72.9 43.3 64.9#

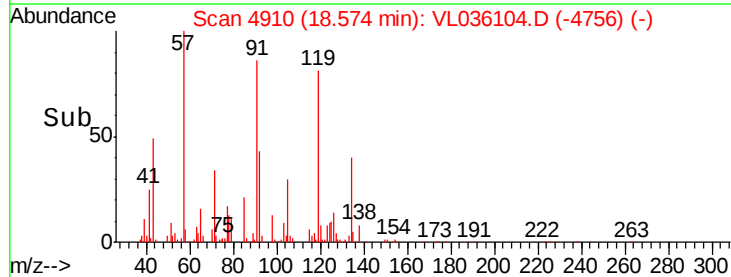
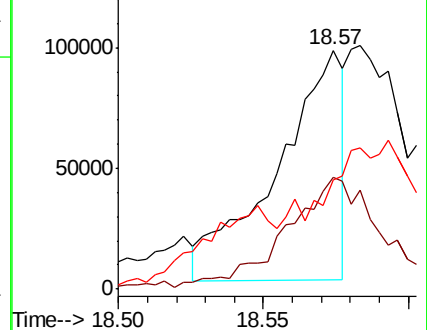
134 0.0 17.1 25.7#

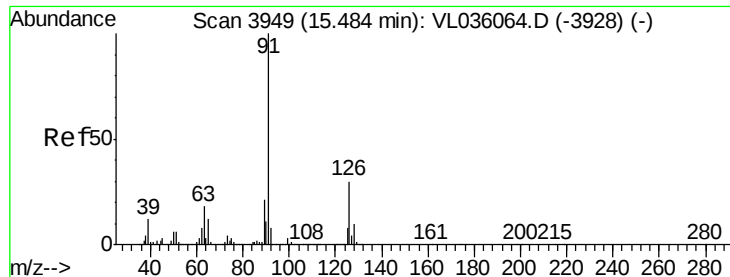


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V

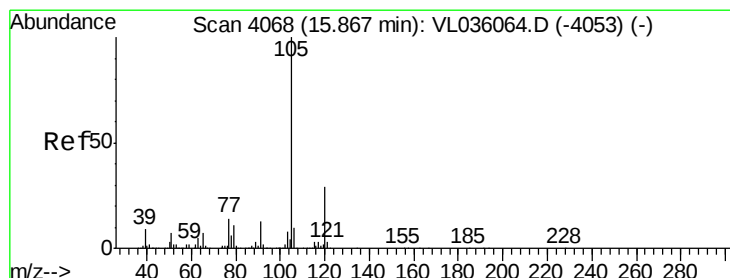
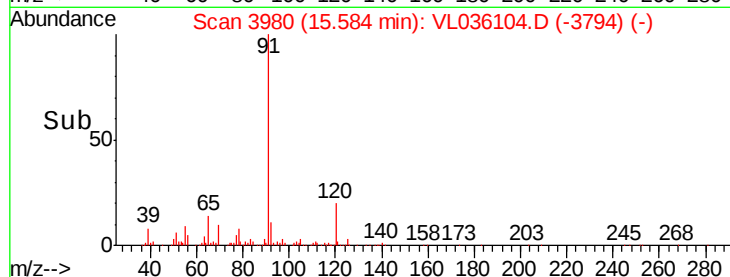
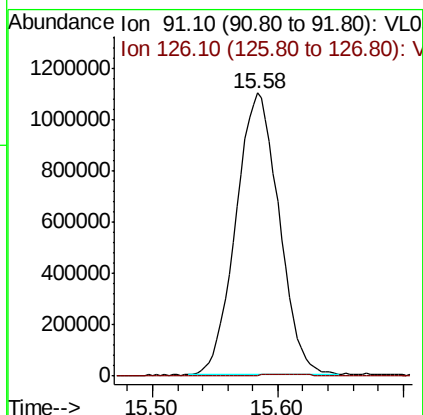
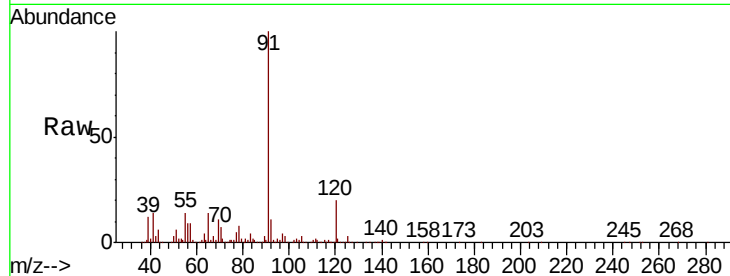




#71
2-Chlorotoluene
Concen: 8.882 ppbv
RT: 15.58 min Scan# 3980
Delta R.T. 0.10 min
Lab File: VL036104.D
Acq: 8 Dec 2020 21:08

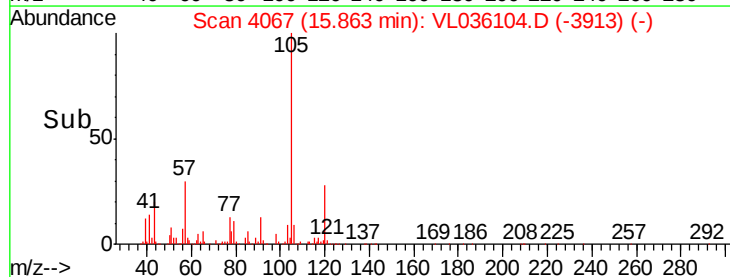
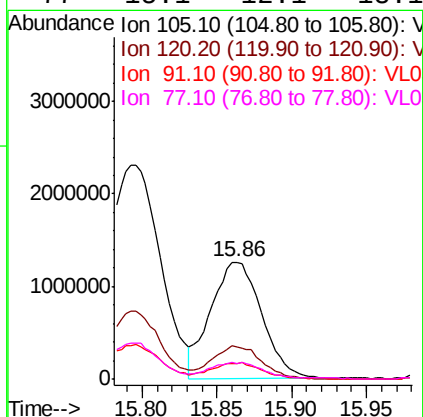
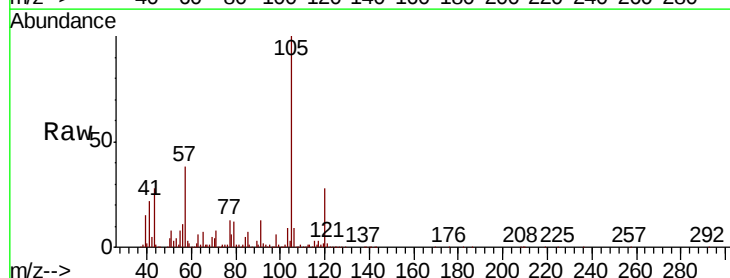
Instrument :
MSVOA_L
ClientSampleId :
IA-2

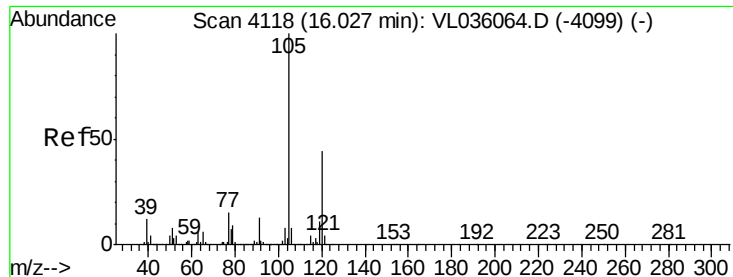
Tot Ion: 91 Resp: 2619320
Ion Ratio Lower Upper
91 100
126 0.9 11.6 46.4#



#72
4-Ethyltoluene
Concen: 10.470 ppbv
RT: 15.86 min Scan# 4067
Delta R.T. -0.00 min
Lab File: VL036104.D
Acq: 8 Dec 2020 21:08

Tgt Ion: 105 Resp: 2984911
Ion Ratio Lower Upper
105 100
120 27.7 23.6 35.4
91 13.5 11.4 17.0
77 15.1 12.1 18.1





#73

1,3,5-Trimethylbenzene

Concen: 10.092 ppbv

RT: 16.02 min Scan# 4116

Delta R.T. -0.01 min

Lab File: VL036104.D

Acq: 8 Dec 2020 21:08

Instrument :

MSVOA_L

ClientSampleId :

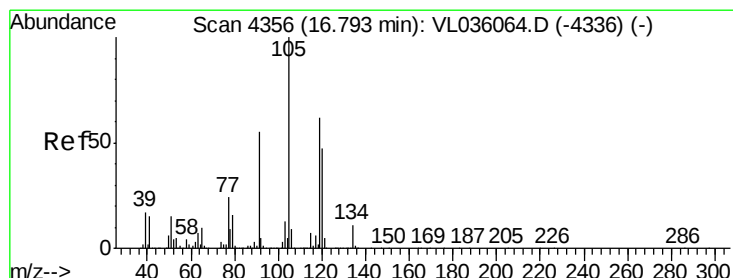
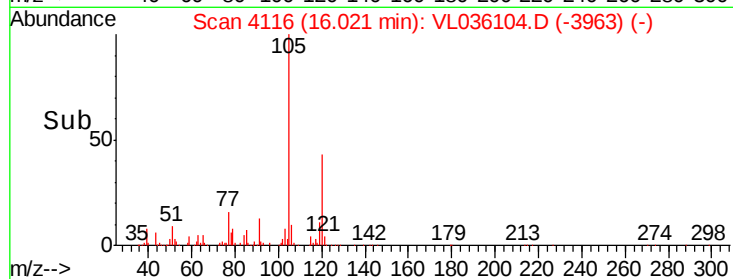
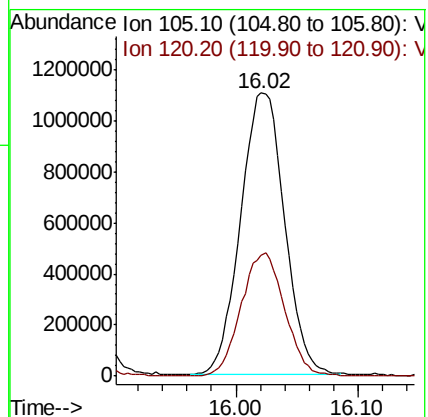
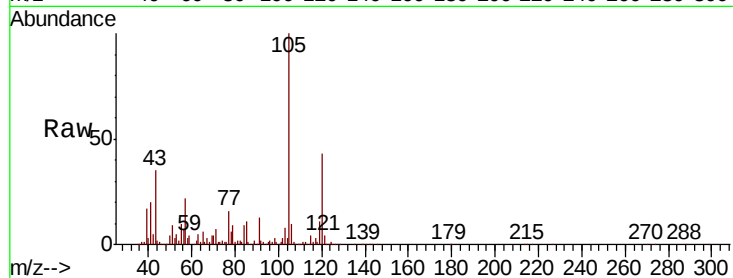
IA-2

Tot Ion:105 Resp: 2747813

Ion Ratio Lower Upper

105 100

120 42.9 35.4 53.2



#74

1,2,4-Trimethylbenzene

Concen: 24.987 ppbv

RT: 16.79 min Scan# 4355

Delta R.T. -0.00 min

Lab File: VL036104.D

Acq: 8 Dec 2020 21:08

Tgt Ion:105 Resp: 6829388

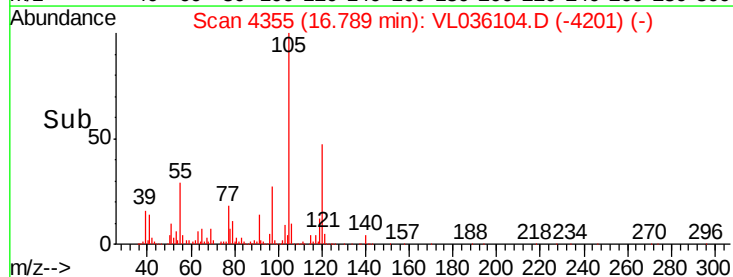
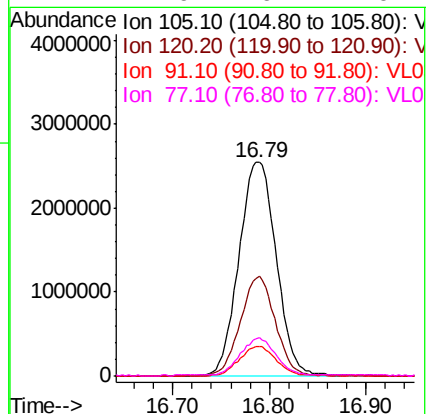
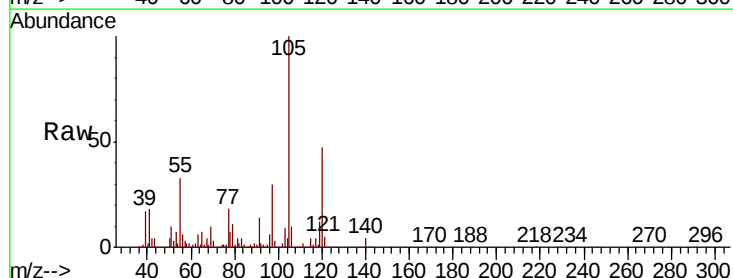
Ion Ratio Lower Upper

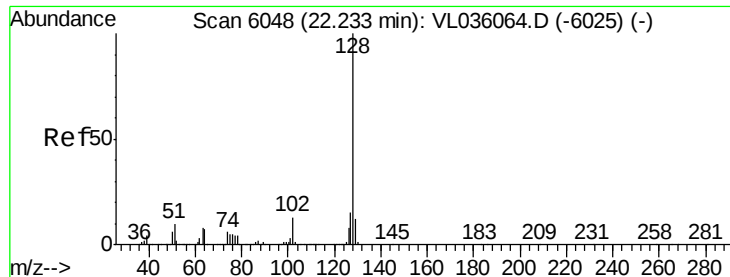
105 100

120 46.9 37.4 56.0

91 13.7 45.6 68.4#

77 17.9 19.4 29.2#





#79

Naphthalene

Concen: 0.338 ppbv

RT: 22.22 min Scan# 6044

Delta R.T. -0.01 min

Lab File: VL036104.D

Acq: 8 Dec 2020 21:08

Instrument :

MSVOA_L

ClientSampleId :

IA-2

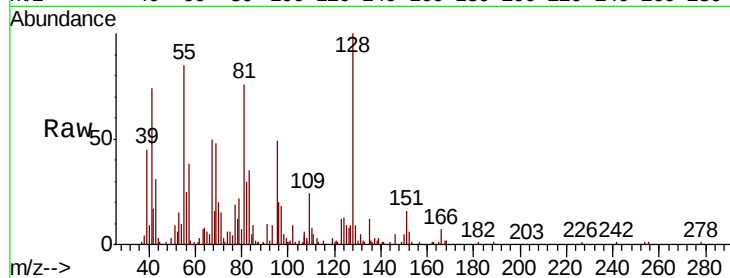
Tot Ion:128 Resp: 46897

Ion Ratio Lower Upper

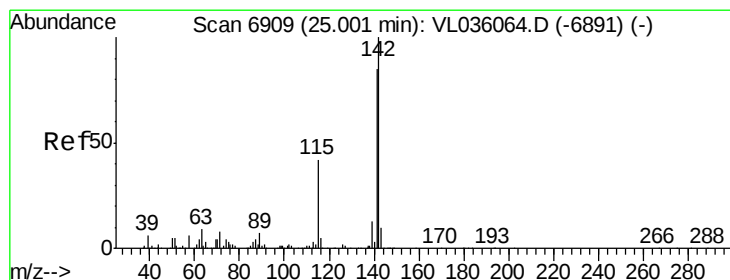
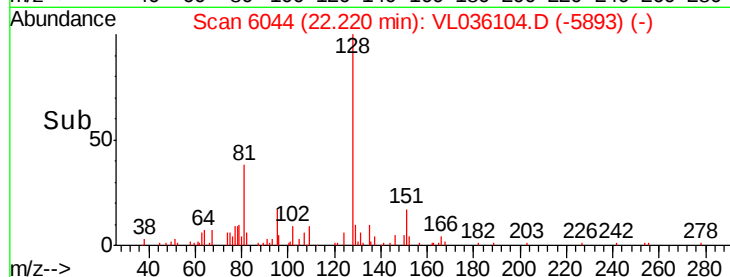
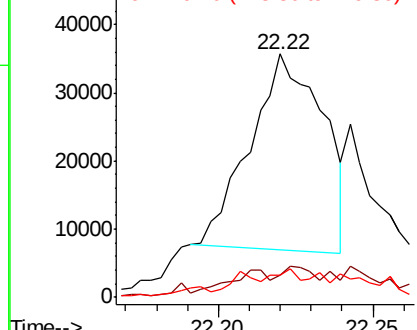
128 100

127 10.0 11.7 17.5#

129 7.1 9.3 13.9#



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.302 ppbv

RT: 24.99 min Scan# 6907

Delta R.T. -0.01 min

Lab File: VL036104.D

Acq: 8 Dec 2020 21:08

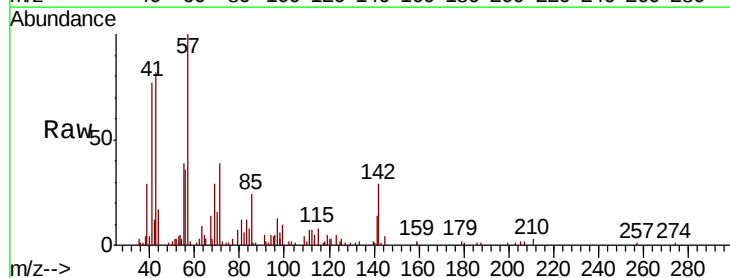
Tgt Ion:142 Resp: 9390

Ion Ratio Lower Upper

142 100

141 91.8 64.3 96.5

115 53.6 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

