

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030121\
 Data File : VL036412.D
 Acq On : 1 Mar 2021 13:26
 Operator : SY/AP
 Sample : M1463-04DL 4X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 02 02:40:16 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10 16:04:02 2021
 QLast Update : Wed Feb 10 16:04:02 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1459971	10.00	ppbv	0.05
33) 1,4-Difluorobenzene	7.20	114	3242698	10.00	ppbv	0.05
55) Chlorobenzene-d5	12.12	117	2966462	10.00	ppbv	0.06

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	2337426	9.58	ppbv	0.06
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.80%

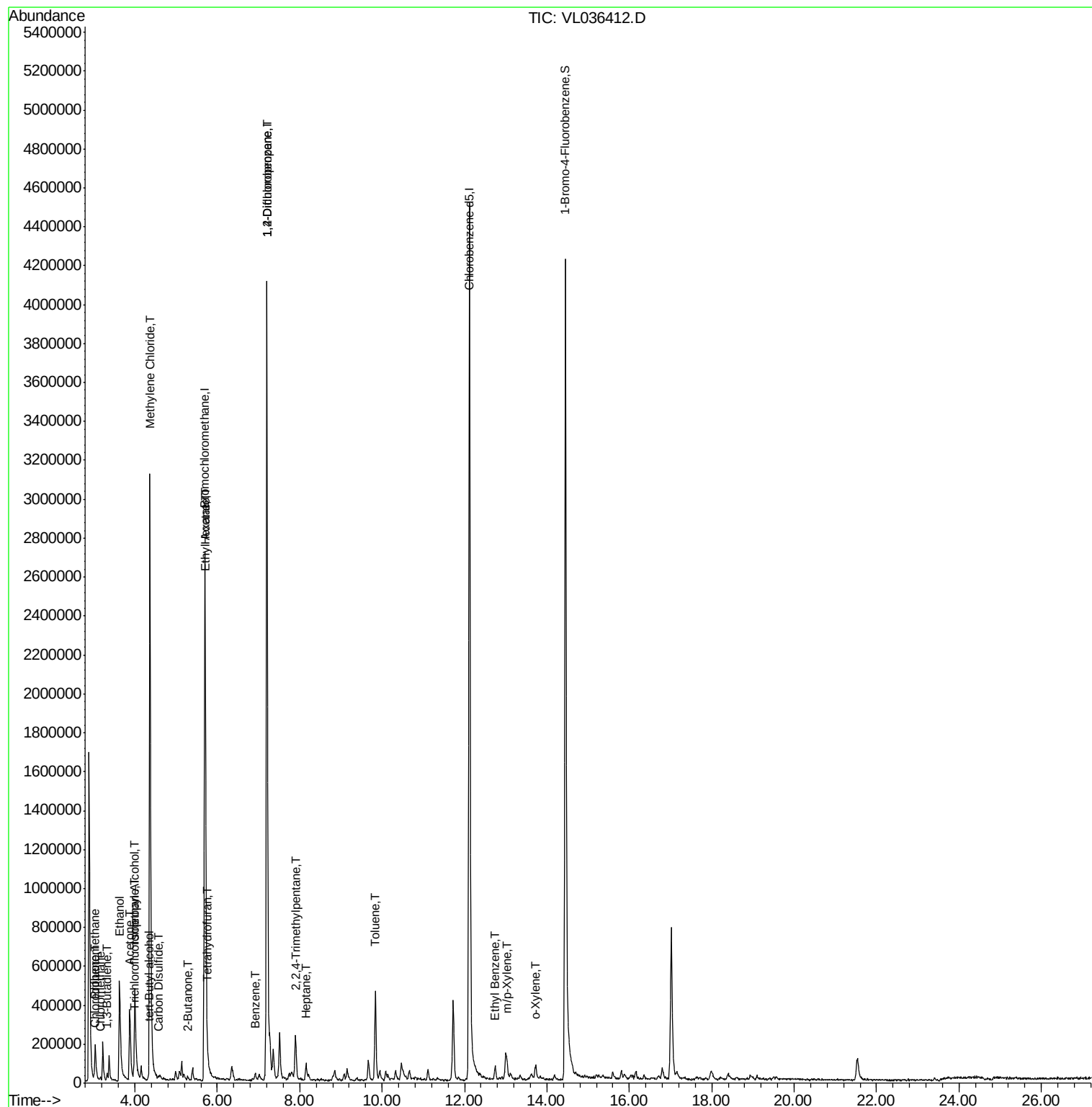
Target Compounds					Ovalue
3) Chlorodifluoromethane	3.01	51	25550	0.141 ppbv	# 86
4) Chloromethane	3.16	50	10554	0.120 ppbv	# 85
9) Propene	3.03	41	60774	0.899 ppbv	88
10) Heptane	8.16	43	28910	0.145 ppbv	# 80
11) Trichlorofluoromethane	3.97	101	6502	0.030 ppbv	94
13) Ethanol	3.63	45	744133	58.577 ppbv	89
15) Acetone	3.87	43	457954	2.566 ppbv	96
16) 1,3-Butadiene	3.32	39	8186	0.096 ppbv	# 75
17) tert-Butyl alcohol	4.33	59	5175	0.037 ppbv	# 68
19) Isopropyl Alcohol	4.00	45	691714	6.996 ppbv	# 98
20) Methylene Chloride	4.37	84	1273962	22.126 ppbv	94
25) Ethyl Acetate	5.72	43	329728	0.957 ppbv	# 80
26) Hexane	5.71	57	445295	3.146 ppbv	# 40
27) Carbon Disulfide	4.57	76	5907	0.045 ppbv	# 60
34) 2-Butanone	5.27	43	9163	0.043 ppbv	# 55
36) Benzene	6.92	78	23645	0.086 ppbv	97
39) 1,2-Dichloropropane	7.20	63	913674	8.165 ppbv	# 23
41) Tetrahydrofuran	5.76	42	5659	0.047 ppbv	# 47
44) 2,2,4-Trimethylpentane	7.90	57	177649	0.355 ppbv	# 84
53) Toluene	9.84	91	289089	0.969 ppbv	99
58) Ethyl Benzene	12.74	91	32141	0.079 ppbv	100
59) m/p-Xylene	13.03	91	35563	0.100 ppbv	# 33
60) o-Xylene	13.73	91	42105	0.123 ppbv	76

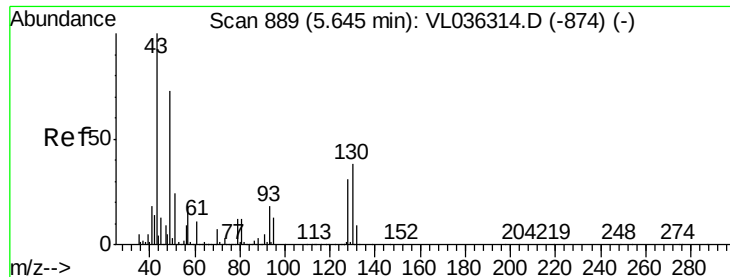
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL030121\
Data File : VL036412.D
Acq On : 1 Mar 2021 13:26
Operator : SY/AP
Sample : M1463-04DL 4X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: Mar 02 02:40:16 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 10 16:04:02 2021
QLast Update : Wed Feb 10 16:04:02 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.05 min

Lab File: VL036412.D

Acq: 1 Mar 2021 13:26

Instrument :

MSVOA_L

ClientSampleId :

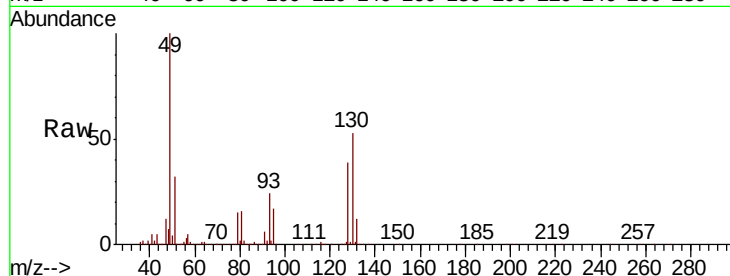
Tot Ion: 49 Resp: 1459971

Ion Ratio Lower Upper

49 100

128 41.8 20.8 62.5

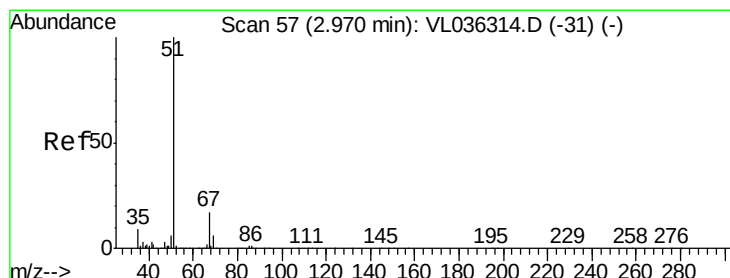
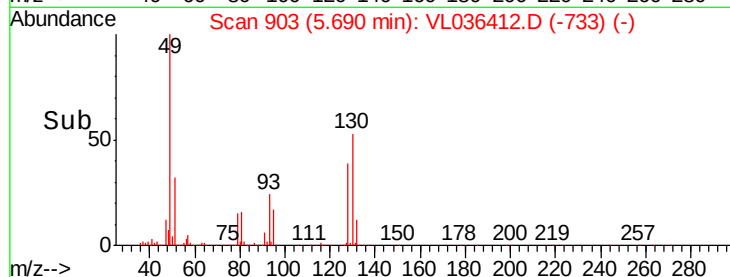
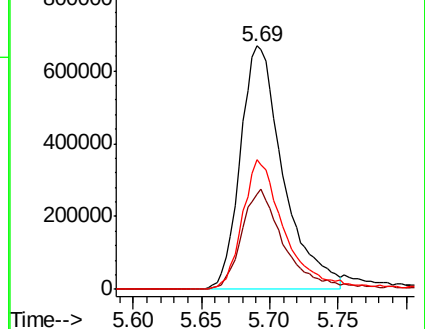
130 54.7 26.7 80.1



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: 0.141 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.04 min

Lab File: VL036412.D

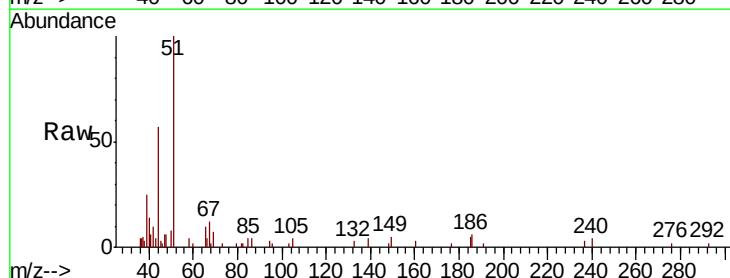
Acq: 1 Mar 2021 13:26

Tgt Ion: 51 Resp: 25550

Ion Ratio Lower Upper

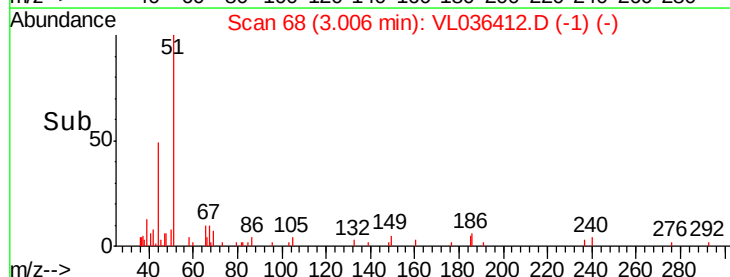
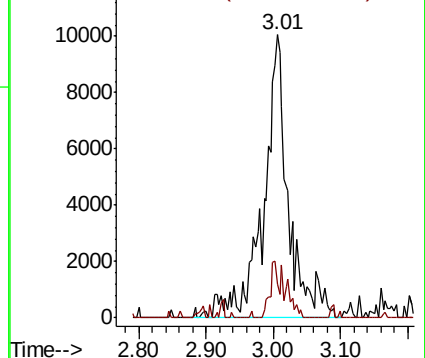
51 100

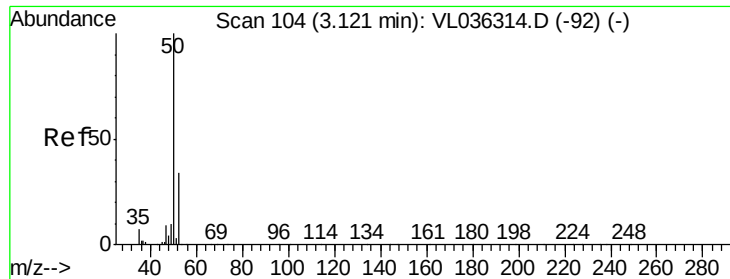
67 12.1 14.7 22.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.120 ppbv

RT: 3.16 min Scan# 116

Delta R.T. 0.04 min

Lab File: VL036412.D

Acq: 1 Mar 2021 13:26

Instrument :

MSVOA_L

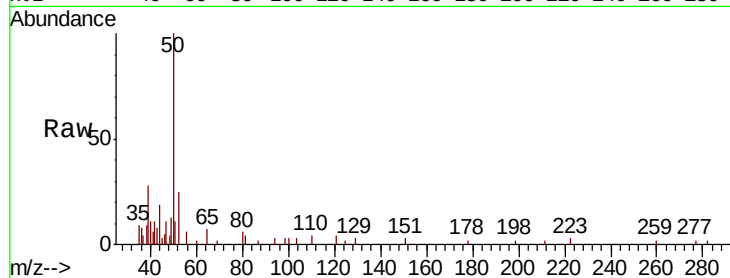
ClientSampleId :

Tot Ion: 50 Resp: 10554

Ion Ratio Lower Upper

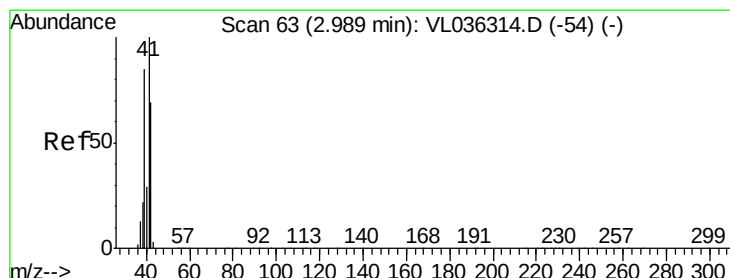
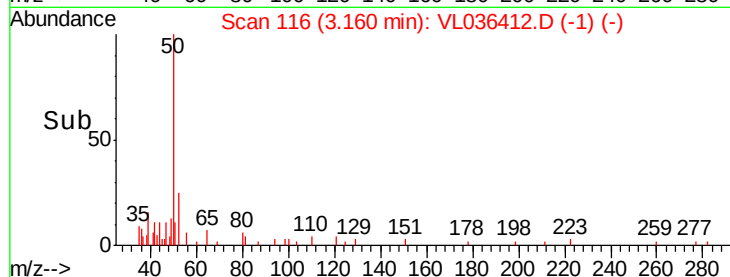
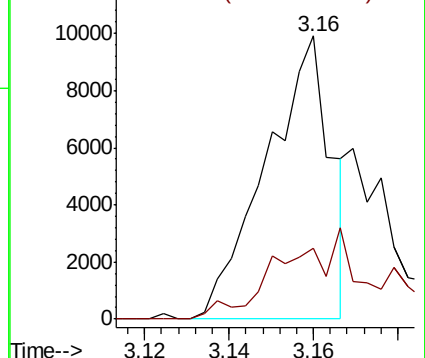
50 100

52 25.1 27.0 40.4#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.899 ppbv

RT: 3.03 min Scan# 77

Delta R.T. 0.05 min

Lab File: VL036412.D

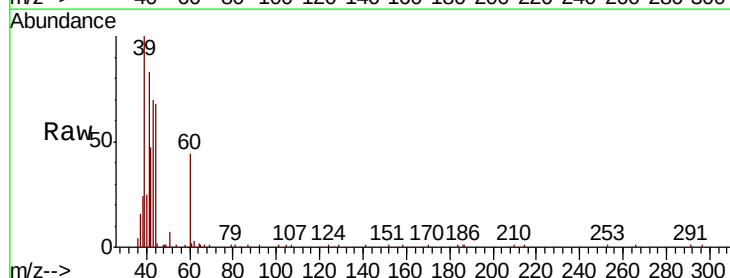
Acq: 1 Mar 2021 13:26

Tgt Ion: 41 Resp: 60774

Ion Ratio Lower Upper

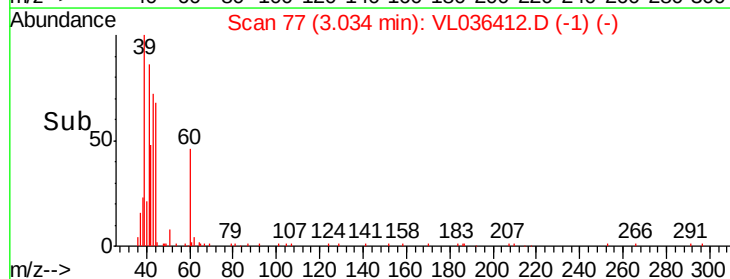
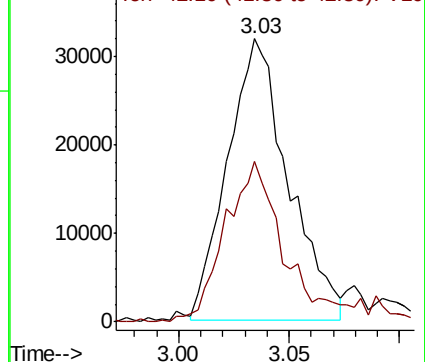
41 100

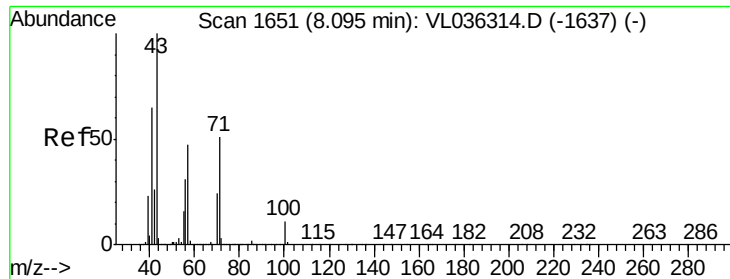
42 60.2 56.2 84.2



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

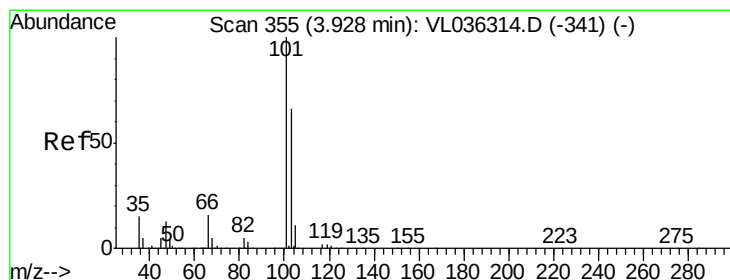
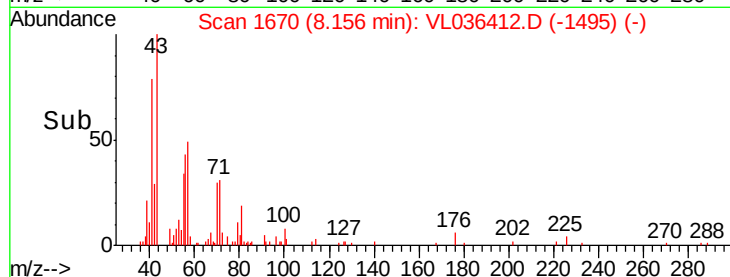
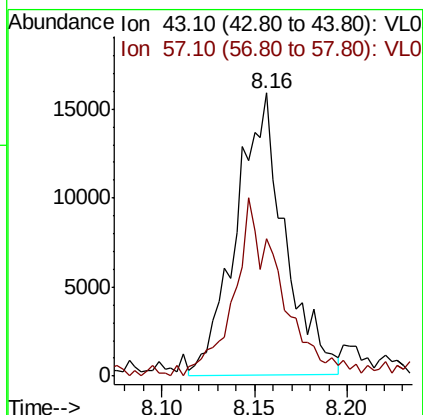
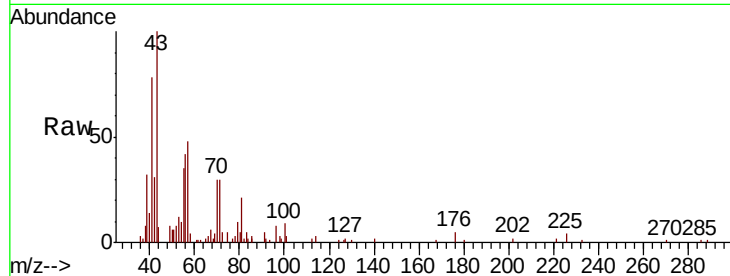




#10
 Heptane
 Concen: 0.145 ppbv
 RT: 8.16 min Scan# 1670
 Delta R.T. 0.06 min
 Lab File: VL036412.D
 Acq: 1 Mar 2021 13:26

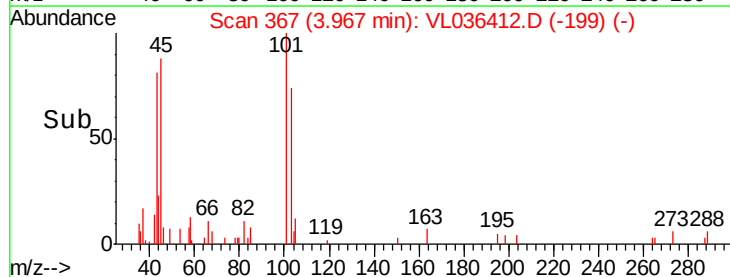
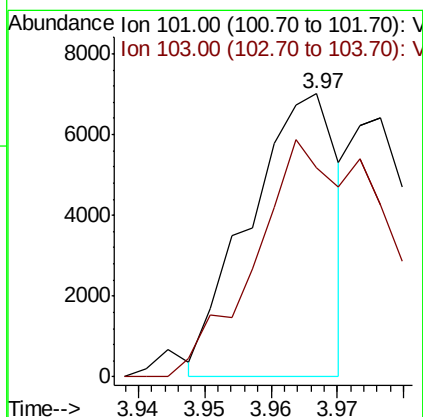
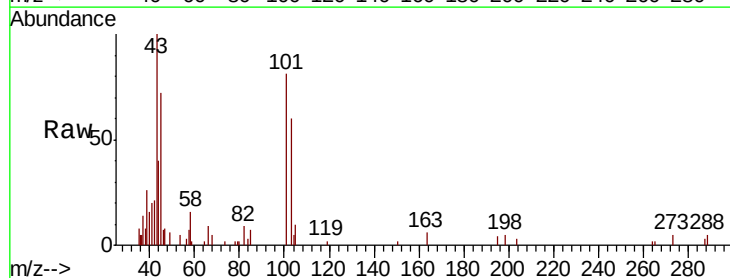
Instrument :
 MSVOA_L
 ClientSampleId :

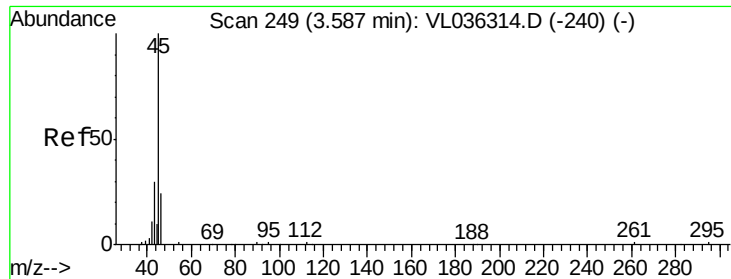
Tot Ion: 43 Resp: 28910
 Ion Ratio Lower Upper
 43 100
 57 63.3 39.4 59.2#



#11
 Trichlorofluoromethane
 Concen: 0.030 ppbv
 RT: 3.97 min Scan# 367
 Delta R.T. 0.04 min
 Lab File: VL036412.D
 Acq: 1 Mar 2021 13:26

Tgt Ion: 101 Resp: 6502
 Ion Ratio Lower Upper
 101 100
 103 71.1 52.9 79.3

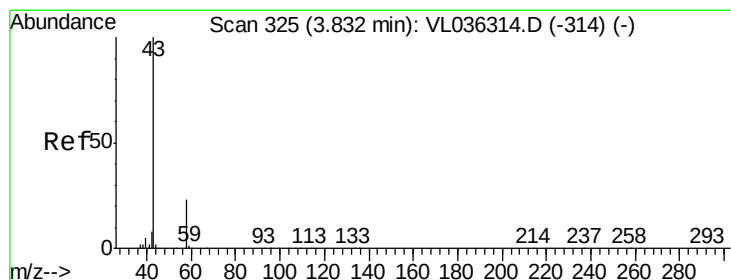
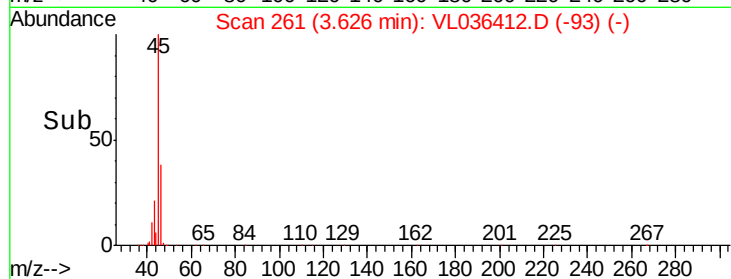
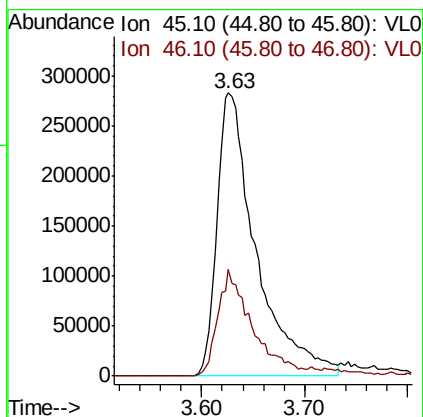
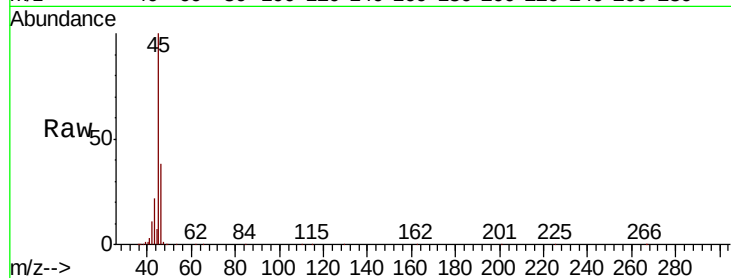




#13
Ethanol
Concen: 58.577 ppbv
RT: 3.63 min Scan# 261
Delta R.T. 0.04 min
Lab File: VL036412.D
Acq: 1 Mar 2021 13:26

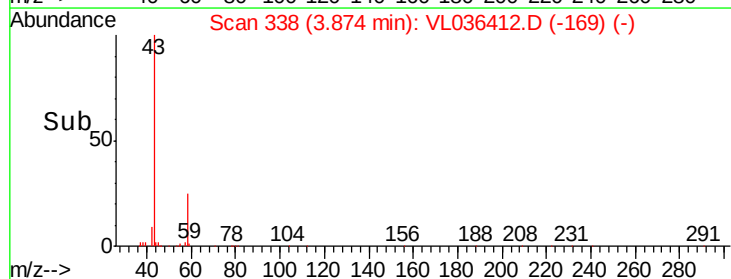
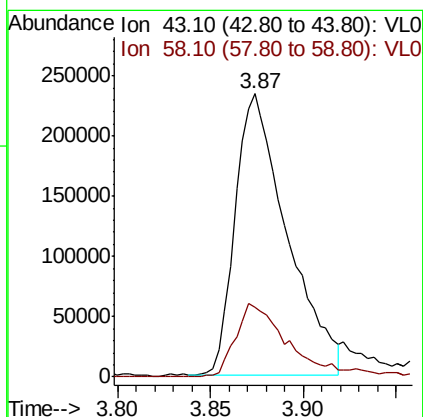
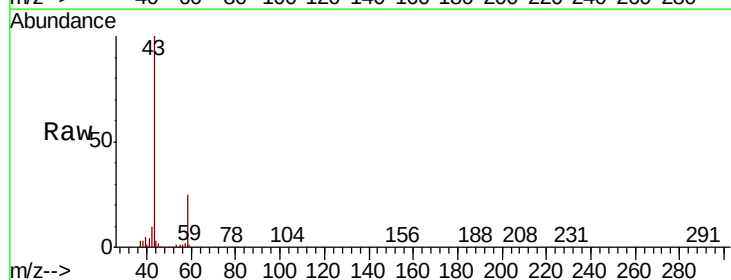
Instrument :
MSVOA_L
ClientSampleId :

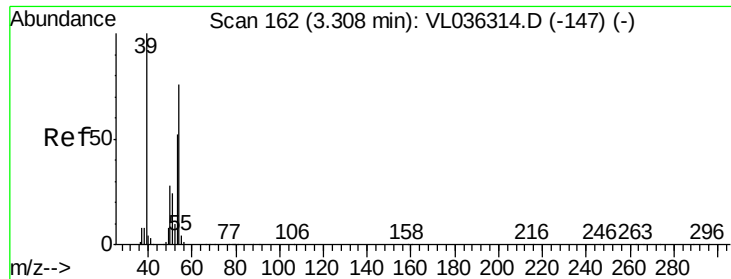
Tot Ion: 45 Resp: 744133
Ion Ratio Lower Upper
45 100
46 37.3 17.7 70.7



#15
Acetone
Concen: 2.566 ppbv
RT: 3.87 min Scan# 338
Delta R.T. 0.04 min
Lab File: VL036412.D
Acq: 1 Mar 2021 13:26

Tgt Ion: 43 Resp: 457954
Ion Ratio Lower Upper
43 100
58 27.3 20.3 30.5

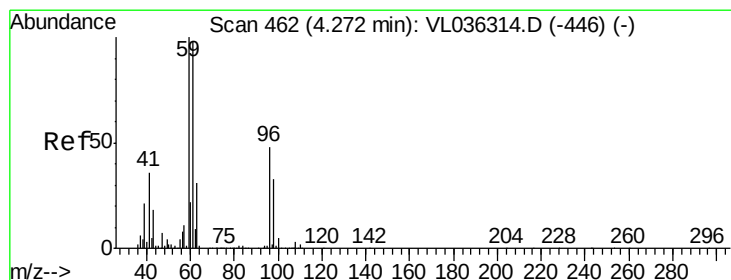
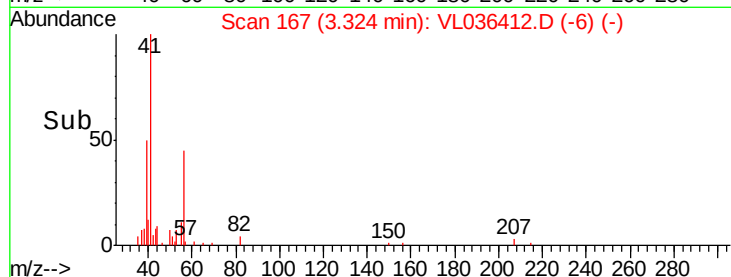
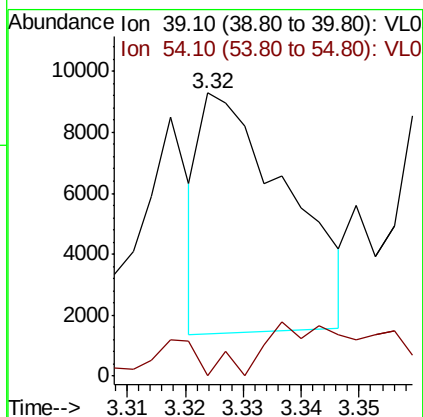
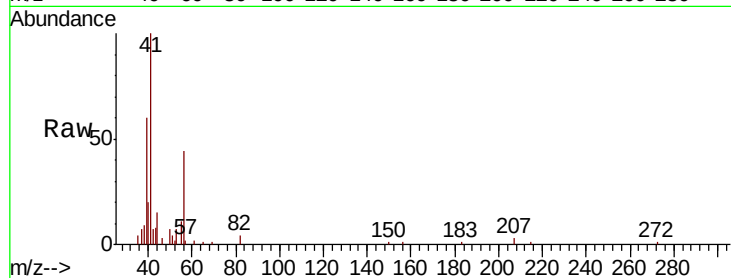




#16
 1,3-Butadiene
 Concen: 0.096 ppbv
 RT: 3.32 min Scan# 167
 Delta R.T. 0.02 min
 Lab File: VL036412.D
 Acq: 1 Mar 2021 13:26

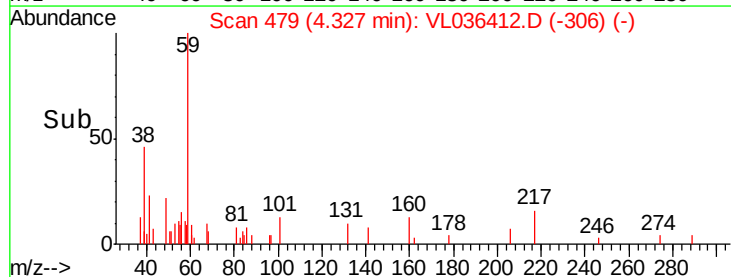
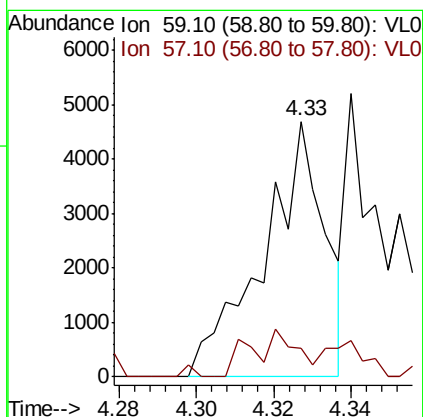
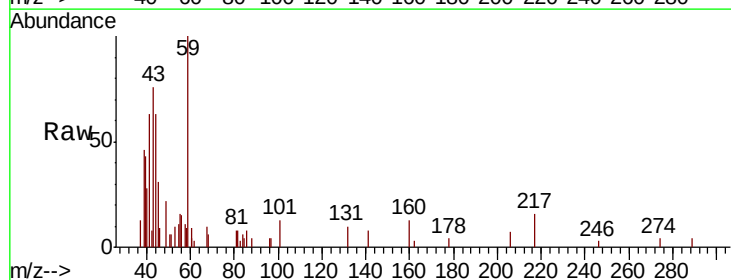
Instrument :
 MSVOA_L
 ClientSampleID :

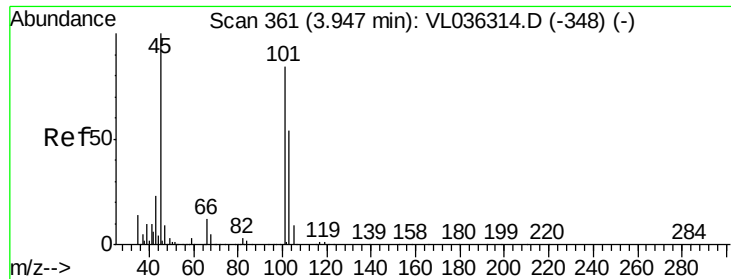
Tot Ion: 39 Resp: 8186
 Ion Ratio Lower Upper
 39 100
 54 58.4 64.4 96.6#



#17
 tert-Butyl alcohol
 Concen: 0.037 ppbv
 RT: 4.33 min Scan# 479
 Delta R.T. 0.05 min
 Lab File: VL036412.D
 Acq: 1 Mar 2021 13:26

Tgt Ion: 59 Resp: 5175
 Ion Ratio Lower Upper
 59 100
 57 23.3 9.0 13.4#





#19

Isopropyl Alcohol

Concen: 6.996 ppbv

RT: 4.00 min Scan# 376

Delta R.T. 0.05 min

Lab File: VL036412.D

Acq: 1 Mar 2021 13:26

Instrument :

MSVOA_L

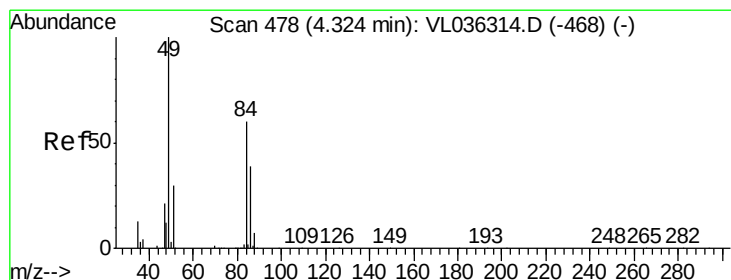
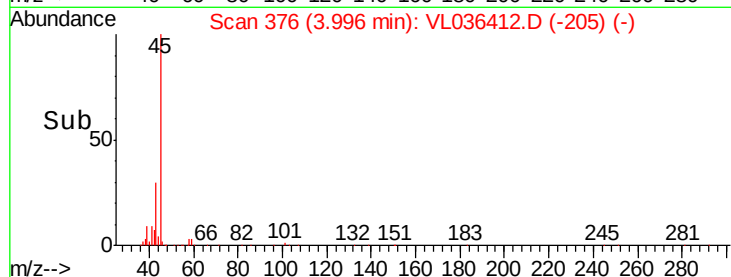
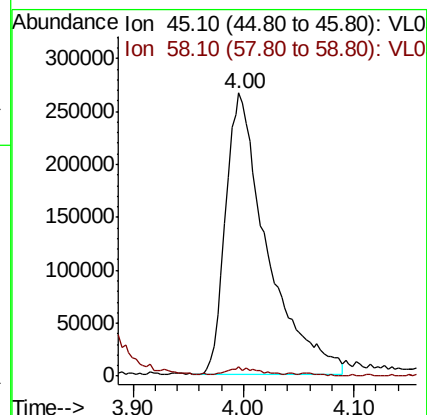
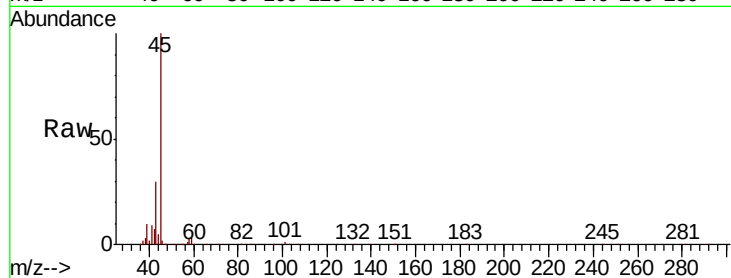
ClientSampleId :

Tot Ion: 45 Resp: 691714

Ion Ratio Lower Upper

45 100

58 3.0 1.9 2.9#



#20

Methylene Chloride

Concen: 22.126 ppbv

RT: 4.37 min Scan# 491

Delta R.T. 0.04 min

Lab File: VL036412.D

Acq: 1 Mar 2021 13:26

Tgt Ion: 84 Resp: 1273962

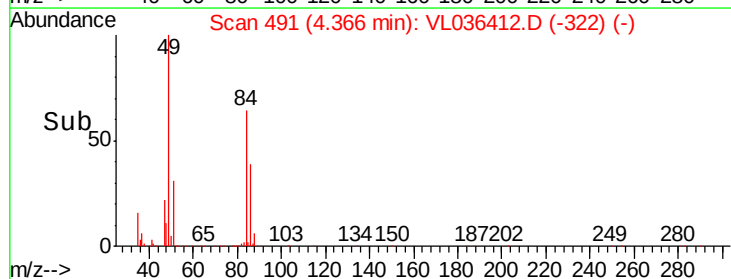
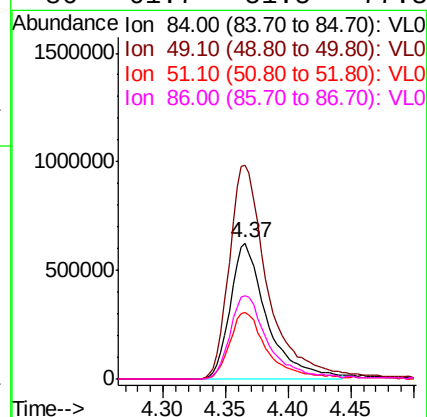
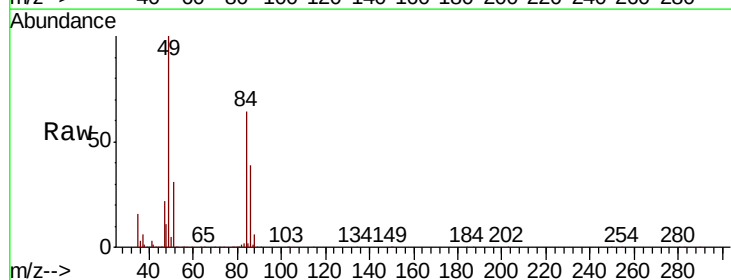
Ion Ratio Lower Upper

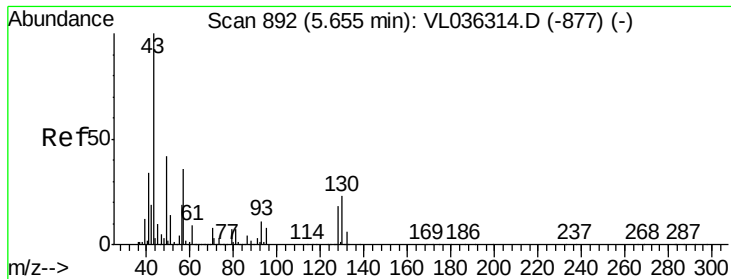
84 100

49 157.3 133.8 200.8

51 49.1 41.4 62.0

86 61.7 51.5 77.3

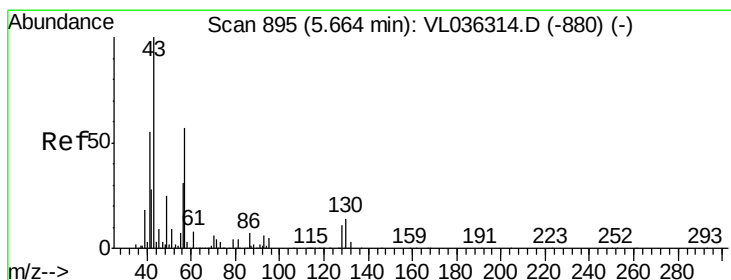
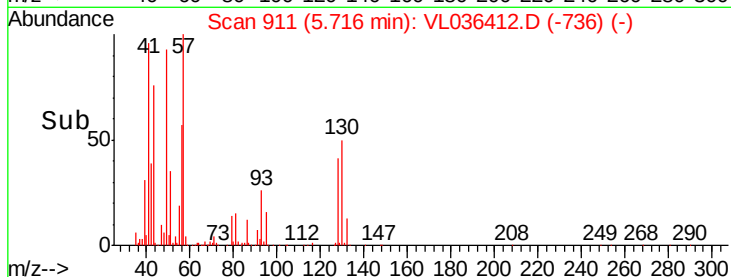
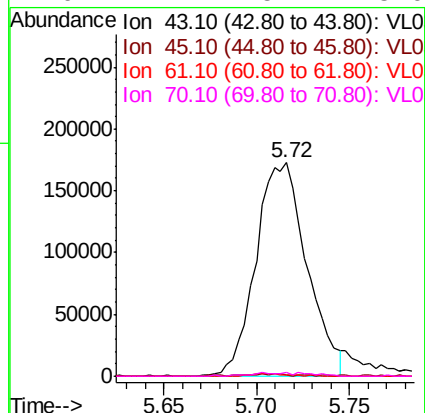
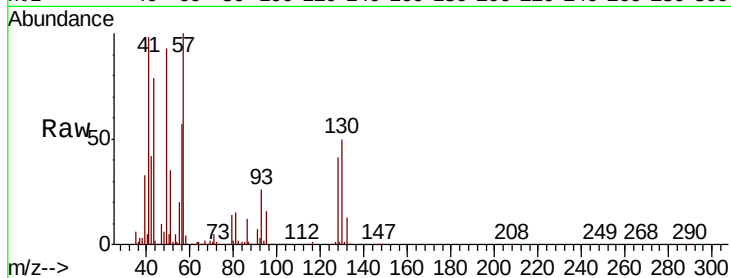




#25
Ethyl Acetate
Concen: 0.957 ppbv
RT: 5.72 min Scan# 911
Delta R.T. 0.06 min
Lab File: VL036412.D
Acq: 1 Mar 2021 13:26

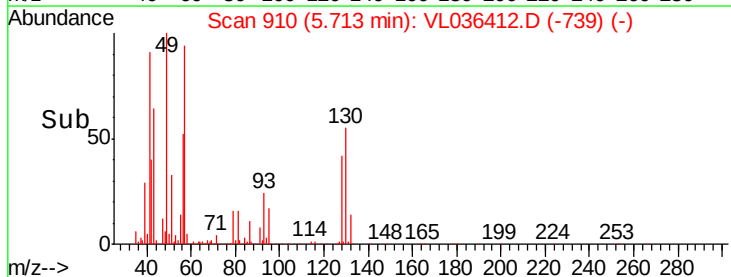
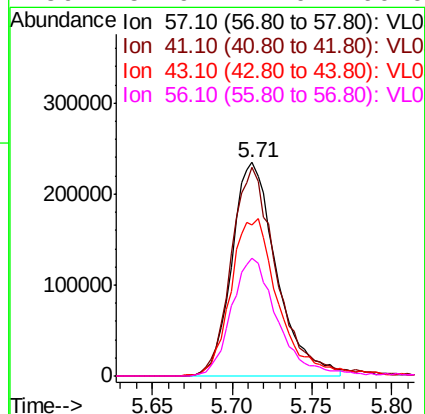
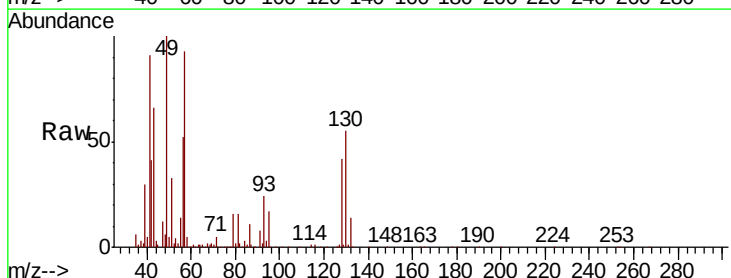
Instrument :
MSVOA_L
ClientSampleId :

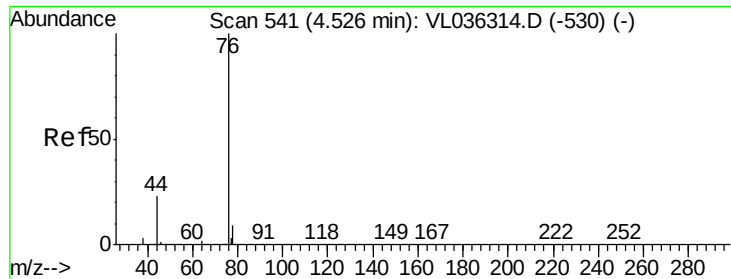
Tot Ion:	43	Resp:	329728
Ion	Ratio	Lower	Upper
43	100		
45	1.8	8.3	12.5#
61	0.9	7.3	10.9#
70	2.1	5.4	8.0#



#26
Hexane
Concen: 3.146 ppbv
RT: 5.71 min Scan# 910
Delta R.T. 0.05 min
Lab File: VL036412.D
Acq: 1 Mar 2021 13:26

Tgt Ion:	57	Resp:	445295
Ion	Ratio	Lower	Upper
57	100		
41	101.7	81.7	122.5
43	80.5	199.1	298.7#
56	57.9	44.0	66.0





#27

Carbon Disulfide

Concen: 0.045 ppbv

RT: 4.57 min Scan# 555

Delta R.T. 0.05 min

Lab File: VL036412.D

Acq: 1 Mar 2021 13:26

Instrument :

MSVOA_L

ClientSampleId :

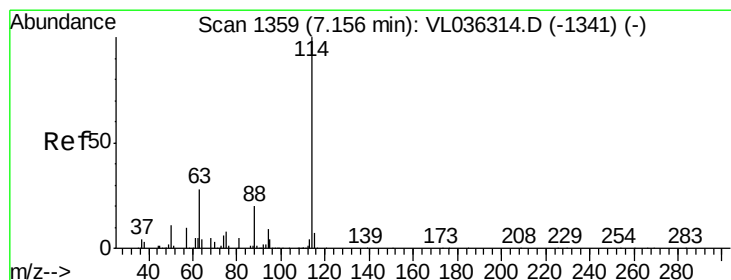
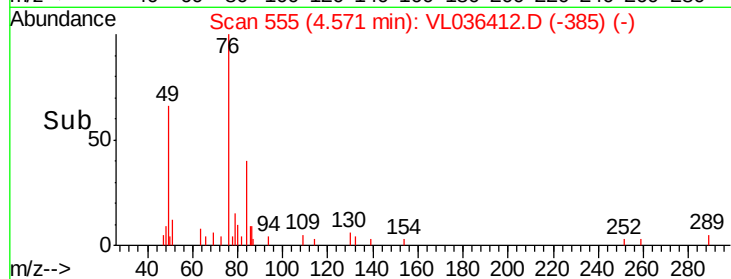
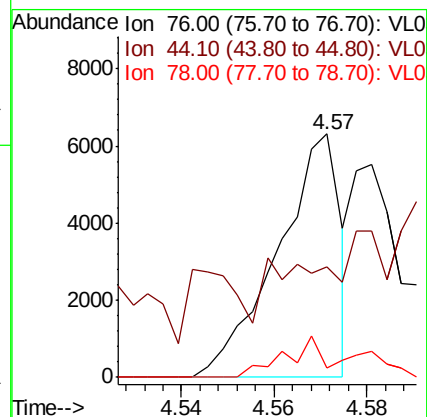
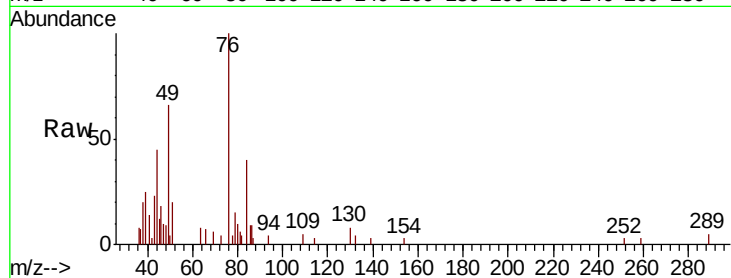
Tot Ion: 76 Resp: 5907

Ion Ratio Lower Upper

76 100

44 0.0 18.4 27.6#

78 18.2 8.0 12.0#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.20 min Scan# 1373

Delta R.T. 0.05 min

Lab File: VL036412.D

Acq: 1 Mar 2021 13:26

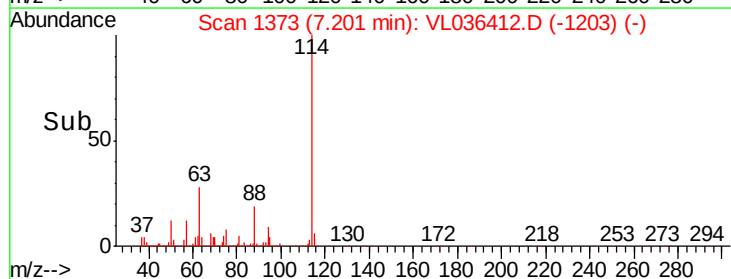
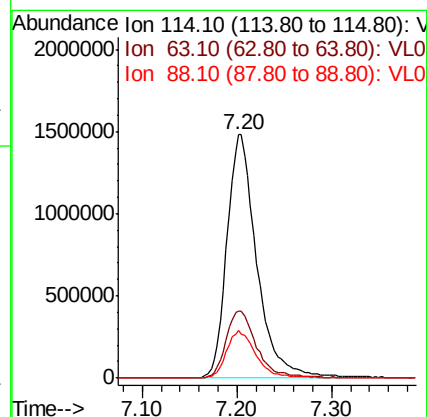
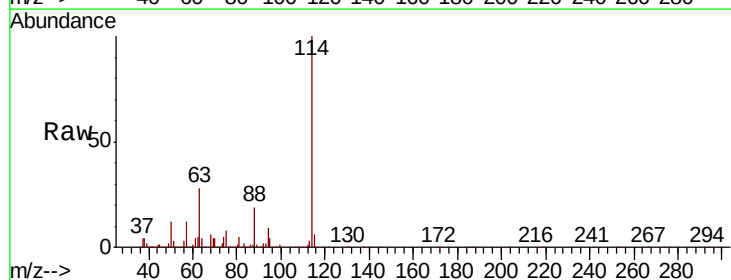
Tgt Ion: 114 Resp: 3242698

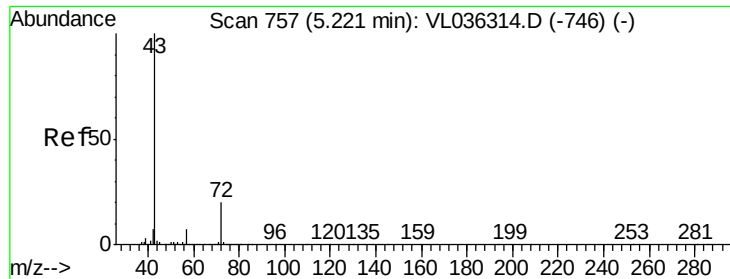
Ion Ratio Lower Upper

114 100

63 28.5 24.1 36.1

88 19.5 16.0 24.0

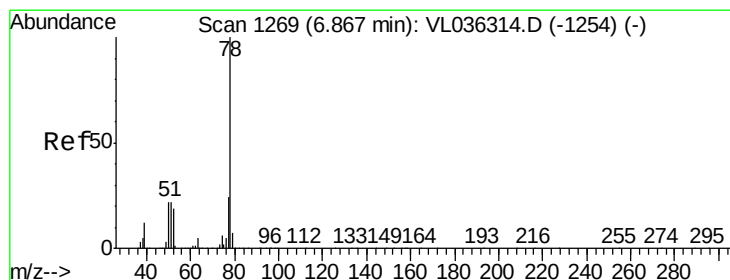
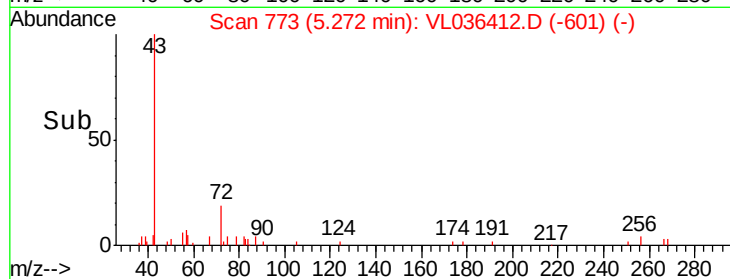
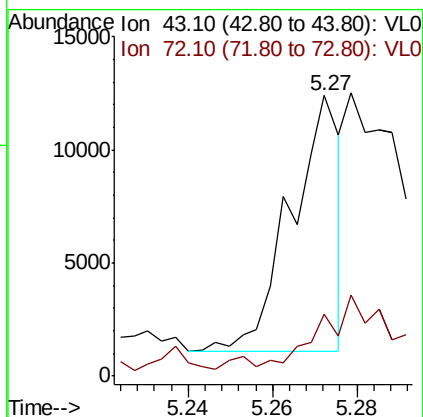
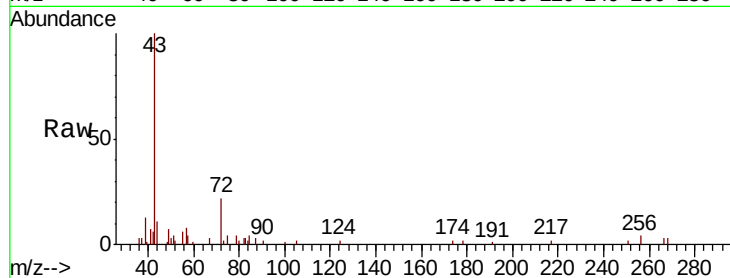




#34
2-Butanone
Concen: 0.043 ppbv
RT: 5.27 min Scan# 773
Delta R.T. 0.05 min
Lab File: VL036412.D
Acq: 1 Mar 2021 13:26

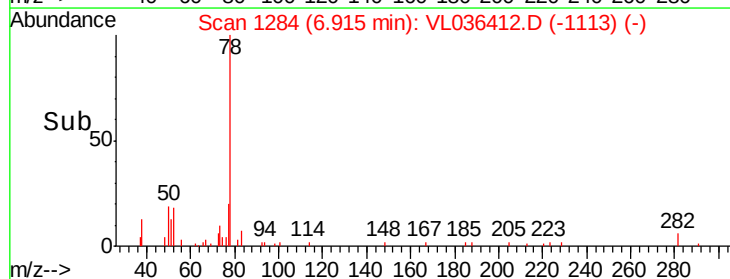
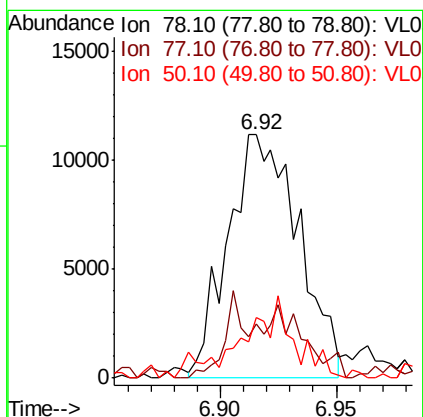
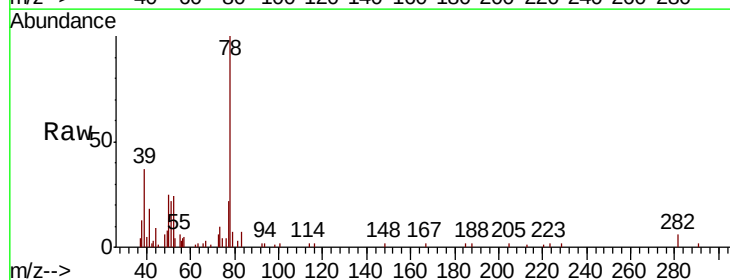
Instrument :
MSVOA_L
ClientSampleId :

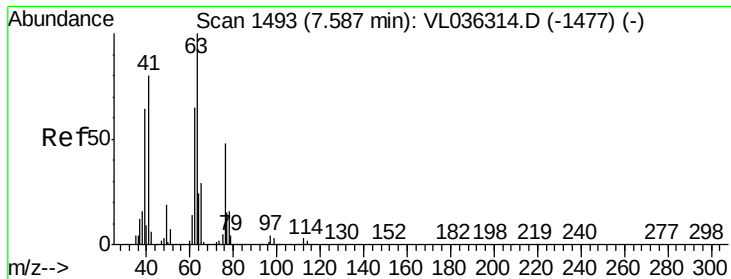
Tot Ion: 43 Resp: 9163
Ion Ratio Lower Upper
43 100
72 0.0 16.7 25.1#



#36
Benzene
Concen: 0.086 ppbv
RT: 6.92 min Scan# 1284
Delta R.T. 0.05 min
Lab File: VL036412.D
Acq: 1 Mar 2021 13:26

Tgt Ion: 78 Resp: 23645
Ion Ratio Lower Upper
78 100
77 23.0 18.9 28.3
50 19.5 17.3 25.9

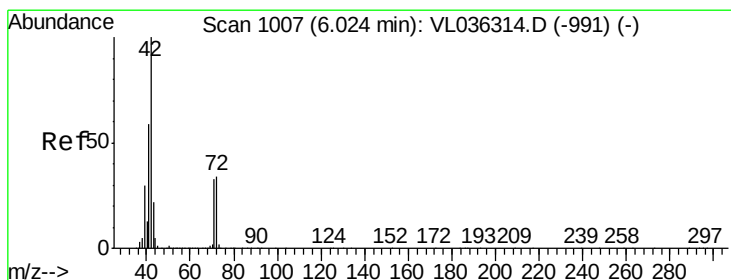
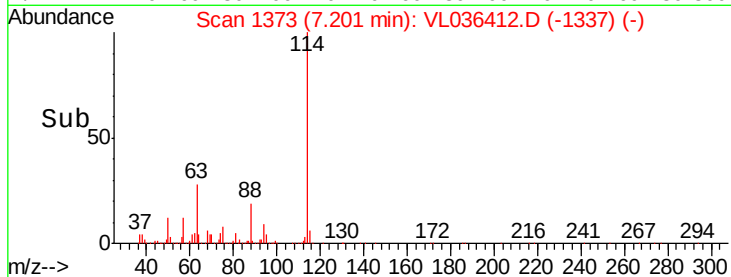
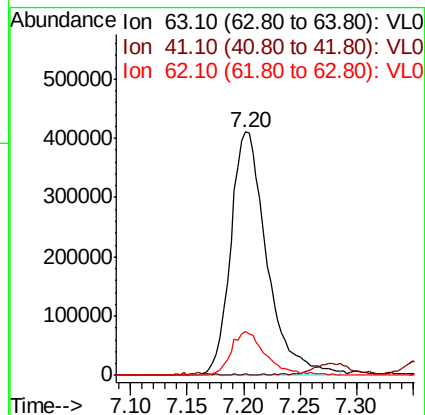
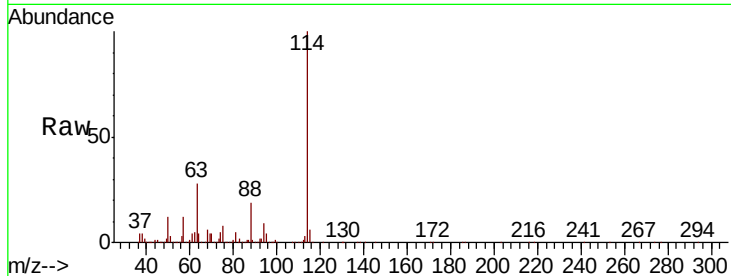




#39
 1,2-Dichloropropane
 Concen: 8.165 ppbv
 RT: 7.20 min Scan# 1373
 Delta R.T. -0.39 min
 Lab File: VL036412.D
 Acq: 1 Mar 2021 13:26

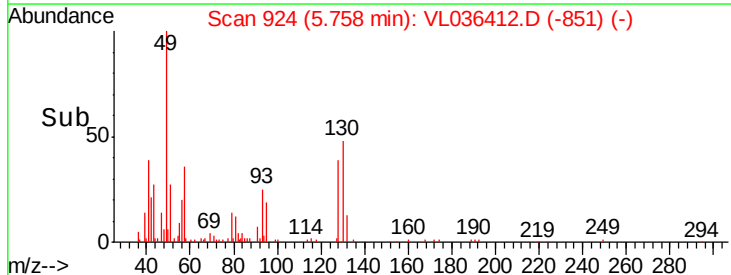
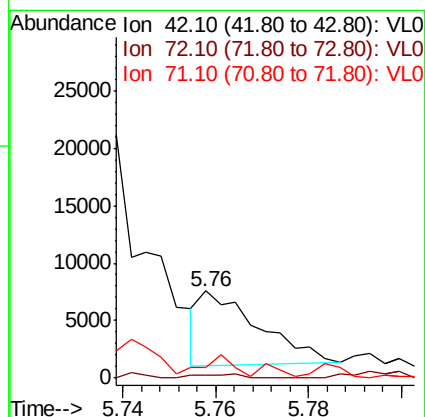
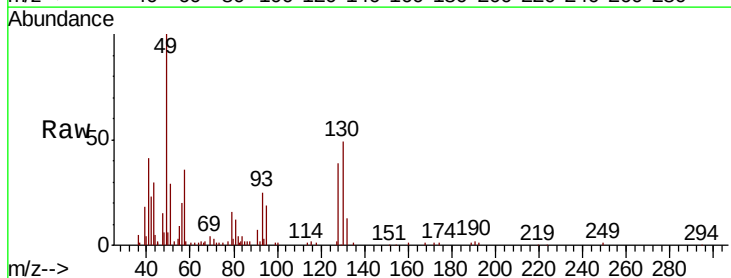
Instrument :
 MSVOA_L
 ClientSampleId :

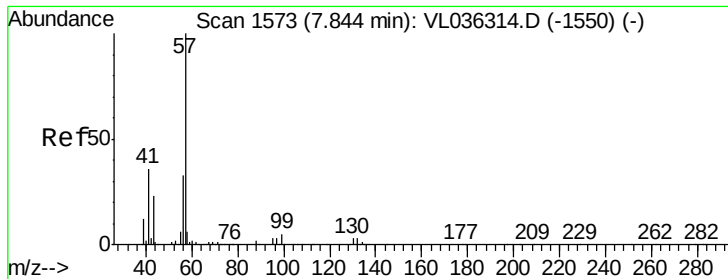
Tot Ion: 63 Resp: 913674
 Ion Ratio Lower Upper
 63 100
 41 0.0 63.8 95.6#
 62 18.1 52.3 78.5#



#41
 Tetrahydrofuran
 Concen: 0.047 ppbv
 RT: 5.76 min Scan# 924
 Delta R.T. -0.27 min
 Lab File: VL036412.D
 Acq: 1 Mar 2021 13:26

Tgt Ion: 42 Resp: 5659
 Ion Ratio Lower Upper
 42 100
 72 9.1 29.3 43.9#
 71 0.0 27.8 41.8#





#44

2,2,4-Trimethylpentane

Concen: 0.355 ppbv

RT: 7.90 min Scan# 1589

Delta R.T. 0.05 min

Lab File: VL036412.D

Acq: 1 Mar 2021 13:26

Instrument :

MSVOA_L

ClientSampleId :

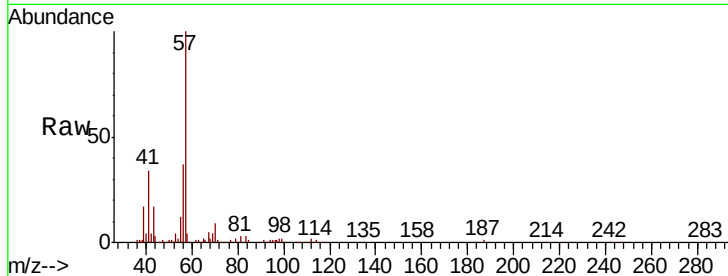
Tot Ion: 57 Resp: 177649

Ion Ratio Lower Upper

57 100

41 45.8 28.8 43.2#

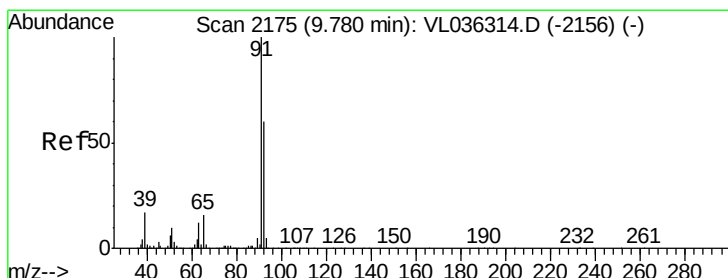
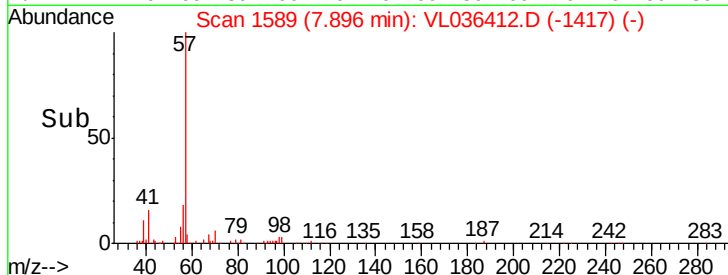
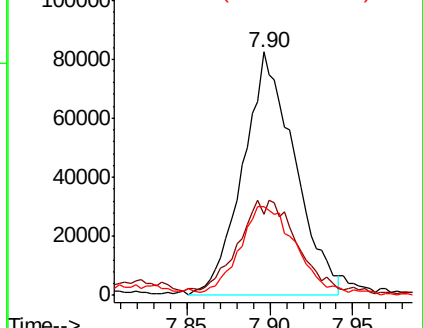
56 41.2 25.8 38.6#



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#53

Toluene

Concen: 0.969 ppbv

RT: 9.84 min Scan# 2194

Delta R.T. 0.06 min

Lab File: VL036412.D

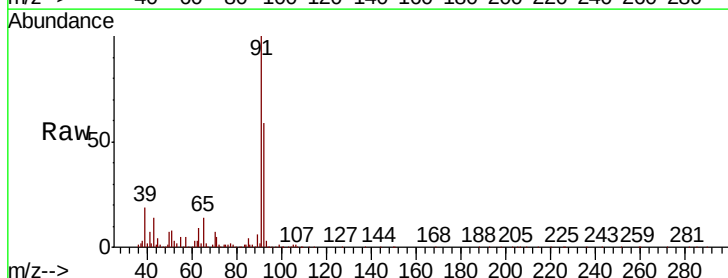
Acq: 1 Mar 2021 13:26

Tgt Ion: 91 Resp: 289089

Ion Ratio Lower Upper

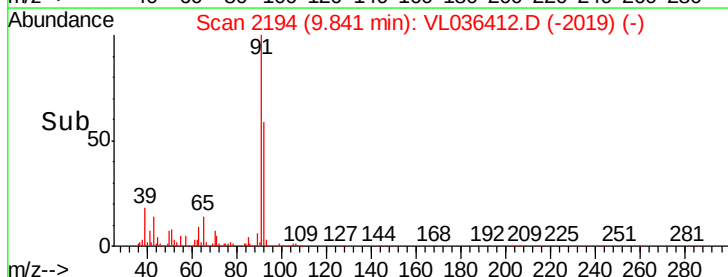
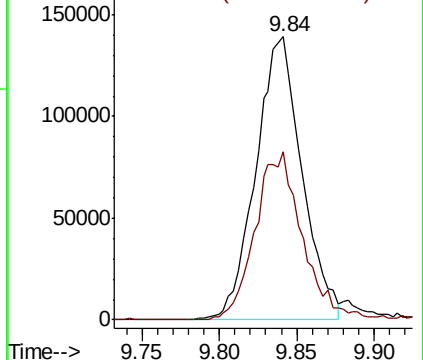
91 100

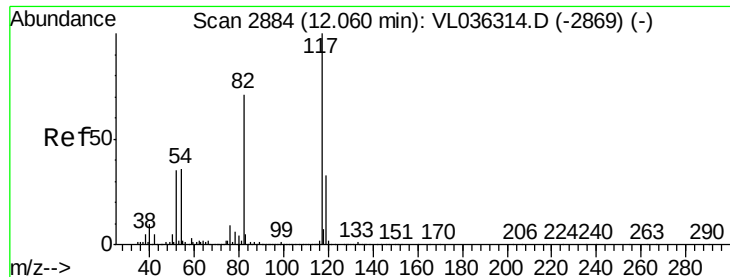
92 61.5 48.6 72.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

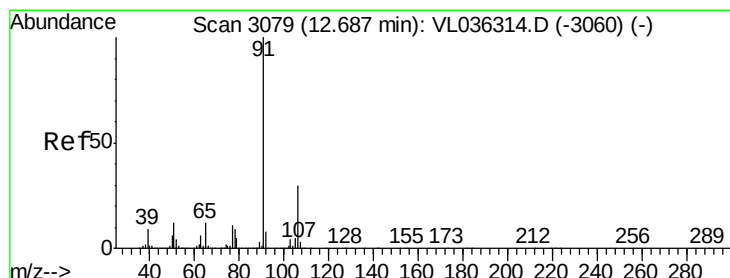
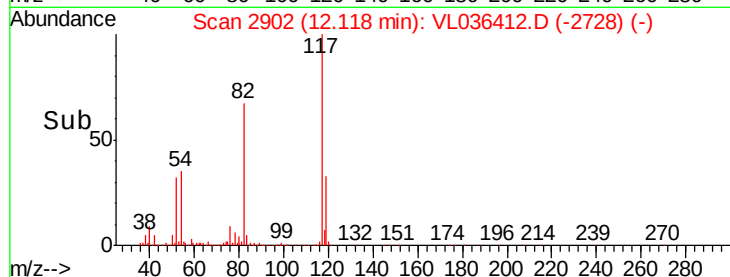
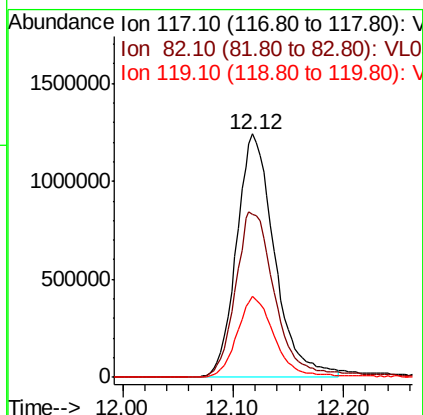
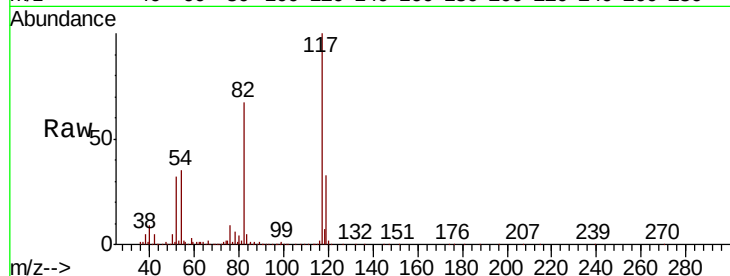




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2902
Delta R.T. 0.06 min
Lab File: VL036412.D
Acq: 1 Mar 2021 13:26

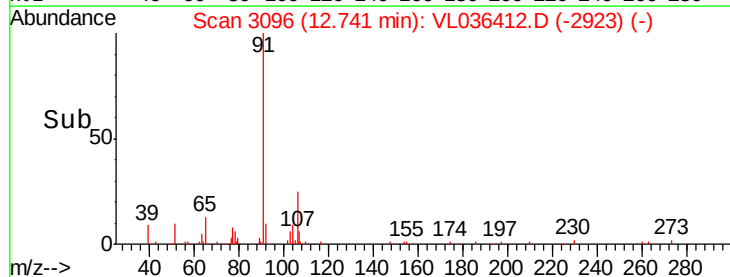
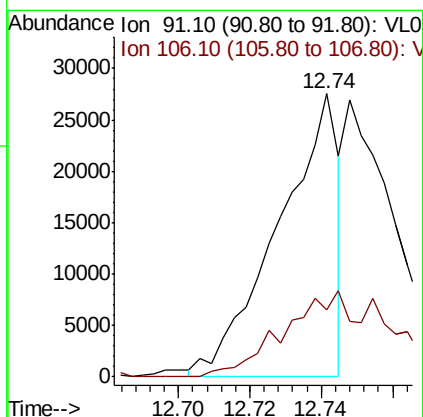
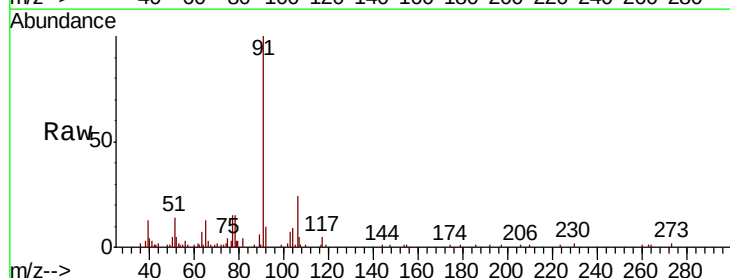
Instrument :
MSVOA_L
ClientSampleId :

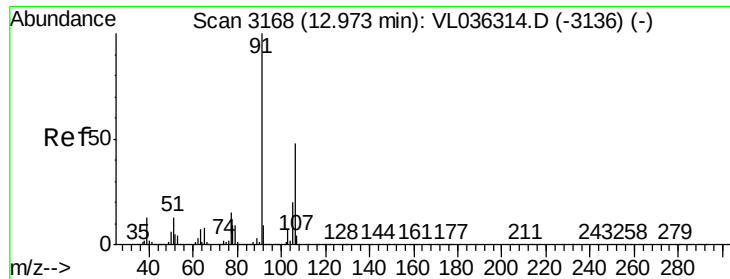
Tot Ion:117 Resp: 2966462
Ion Ratio Lower Upper
117 100
82 73.0 59.1 88.7
119 33.7 46.3 69.5#



#58
Ethyl Benzene
Concen: 0.079 ppbv
RT: 12.74 min Scan# 3096
Delta R.T. 0.05 min
Lab File: VL036412.D
Acq: 1 Mar 2021 13:26

Tgt Ion: 91 Resp: 32141
Ion Ratio Lower Upper
91 100
106 29.9 23.8 35.6





#59

m/p-Xylene

Concen: 0.100 ppbv

RT: 13.03 min Scan# 3187

Delta R.T. 0.06 min

Lab File: VL036412.D

Acq: 1 Mar 2021 13:26

Instrument :

MSVOA_L

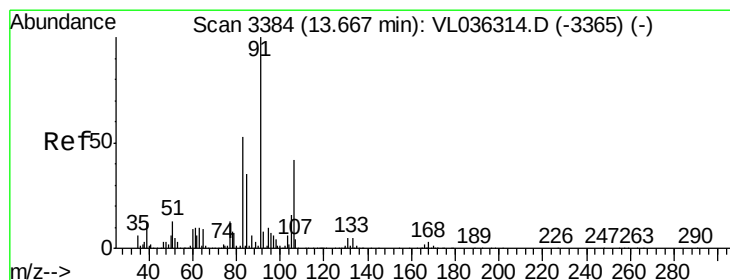
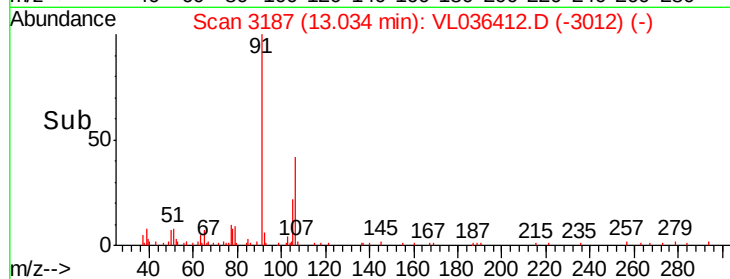
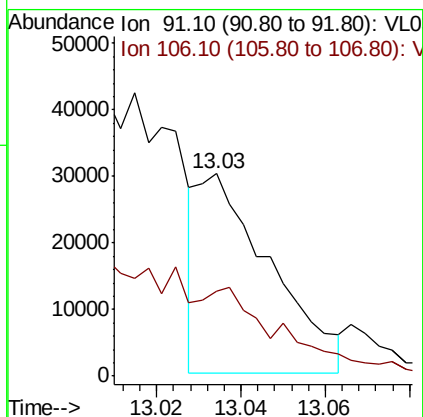
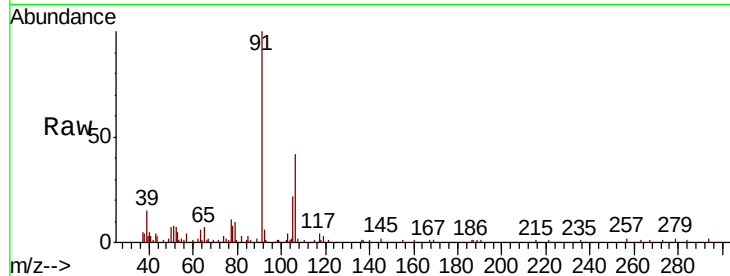
ClientSampleId :

Tot Ion: 91 Resp: 35563

Ion Ratio Lower Upper

91 100

106 0.0 34.2 51.2#



#60

o-Xylene

Concen: 0.123 ppbv

RT: 13.73 min Scan# 3402

Delta R.T. 0.06 min

Lab File: VL036412.D

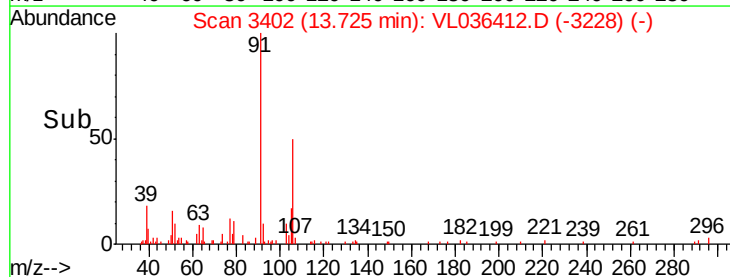
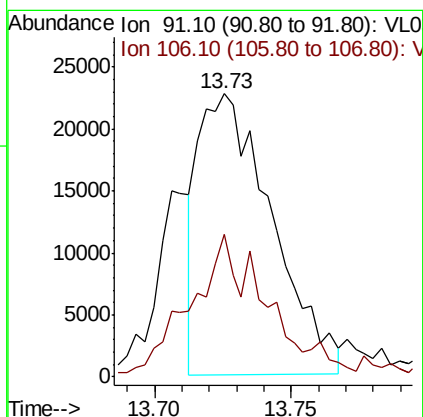
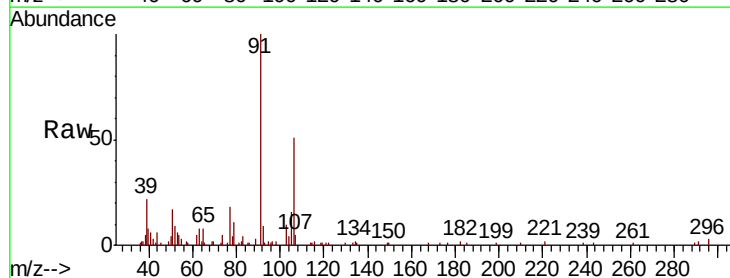
Acq: 1 Mar 2021 13:26

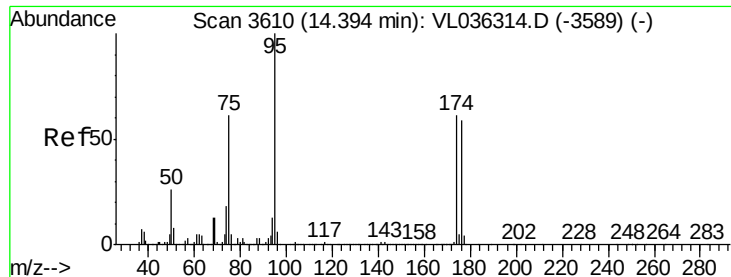
Tgt Ion: 91 Resp: 42105

Ion Ratio Lower Upper

91 100

106 59.2 22.0 66.0





#68

1-Bromo-4-Fluorobenzene

Concen: 9.577 ppbv

RT: 14.45 min Scan# 3628

Delta R.T. 0.06 min

Lab File: VL036412.D

Acq: 1 Mar 2021 13:26

Instrument :

MSVOA_L

ClientSampleId :

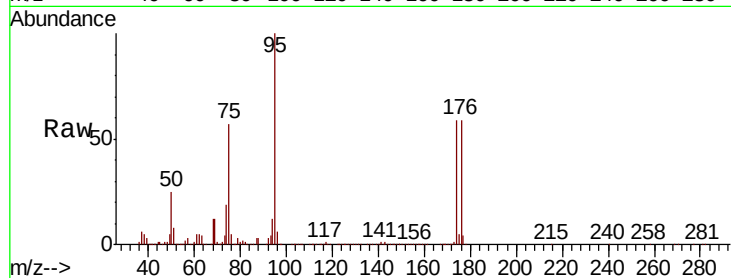
Tot Ion: 95 Resp: 2337426

Ion Ratio Lower Upper

95 100

174 64.9 49.8 74.6

175 4.6 3.7 5.5



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

