

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033121\
 Data File : VL036622.D
 Acq On : 1 Apr 2021 4:46
 Operator : SY/AP
 Sample : M1841-08 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 01 06:08:18 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1576537	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3652805	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.11	117	3233954	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2497747	9.69	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.90%

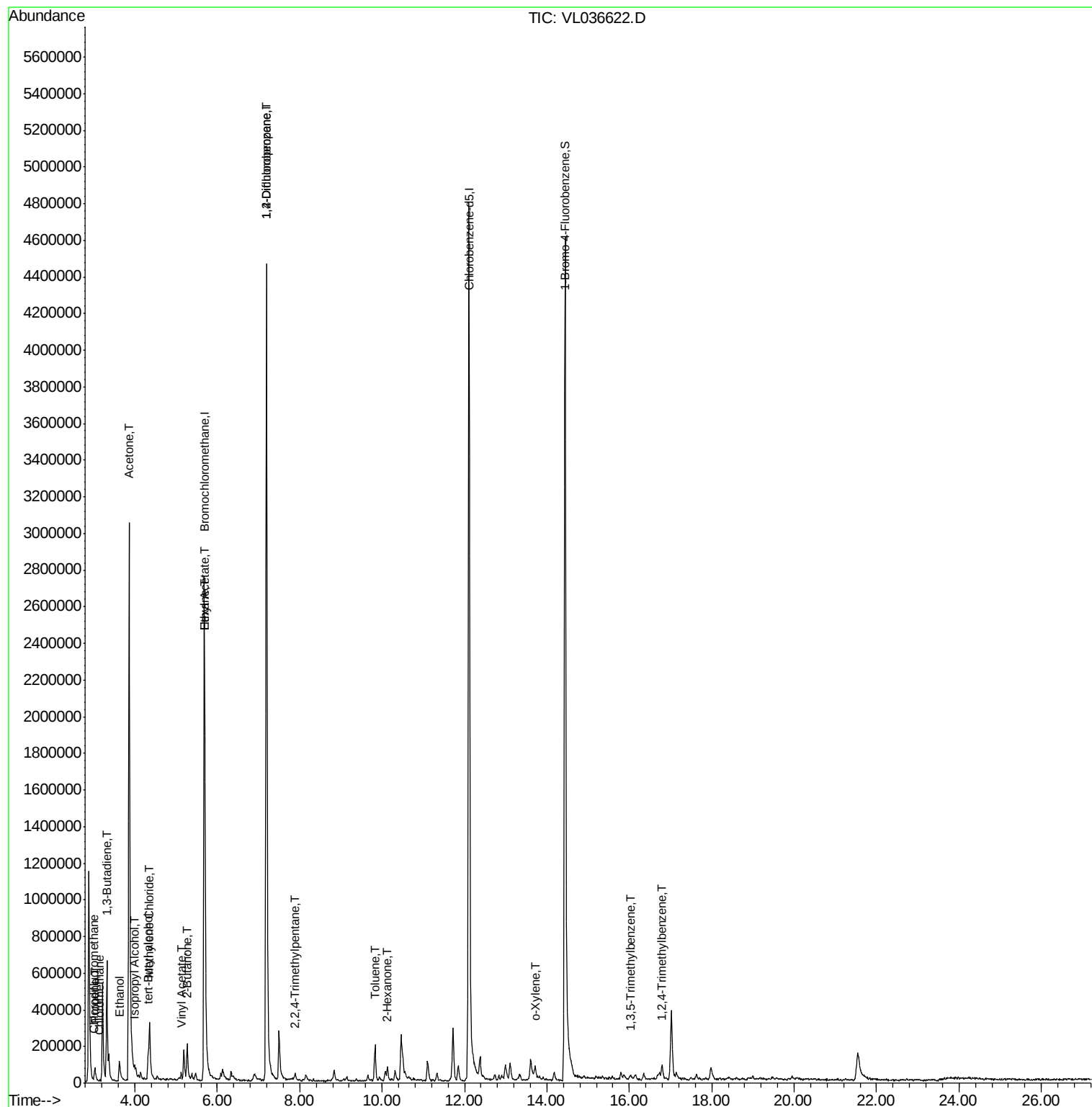
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.99	51	11142	0.038	ppbv #	90
4) Chloromethane	3.15	50	2406	0.023	ppbv #	41
9) Propene	3.02	41	15660	0.167	ppbv #	14
13) Ethanol	3.62	45	126130	11.279	ppbv	84
15) Acetone	3.86	43	4238321	27.314	ppbv	97
16) 1,3-Butadiene	3.32	39	208123	1.927	ppbv #	20
17) tert-Butyl alcohol	4.33	59	213172	1.578	ppbv #	94
19) Isopropyl Alcohol	3.99	45	55618	0.652	ppbv #	89
20) Methylene Chloride	4.35	84	42350	0.583	ppbv	96
23) Vinyl Acetate	5.12	43	14112	0.053	ppbv #	73
25) Ethyl Acetate	5.70	43	122371	0.332	ppbv #	79
26) Hexane	5.70	57	166439	0.972	ppbv #	45
34) 2-Butanone	5.27	43	267731	1.502	ppbv	93
39) 1,2-Dichloropropane	7.19	63	983367	7.196	ppbv #	24
44) 2,2,4-Trimethylpentane	7.88	57	18741	0.032	ppbv #	34
51) 2-Hexanone	10.13	43	17376	0.133	ppbv #	39
53) Toluene	9.83	91	141870	0.395	ppbv	98
60) o-Xylene	13.72	91	13907	0.035	ppbv #	31
73) 1,3,5-Trimethylbenzene	16.02	105	12891	0.032	ppbv #	77
74) 1,2,4-Trimethylbenzene	16.80	105	27307	0.063	ppbv #	73

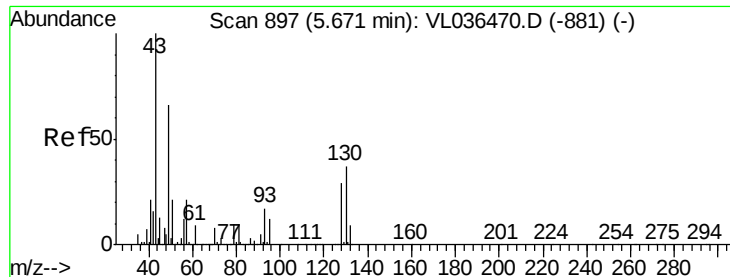
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 900

Delta R.T. 0.01 min

Lab File: VL036622.D

Acq: 1 Apr 2021 4:46

Instrument :

MSVOA_L

ClientSampleId :

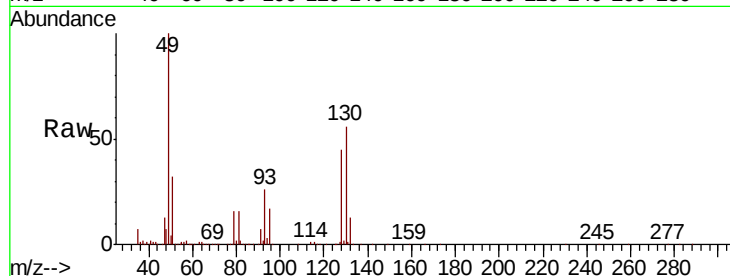
Tot Ion: 49 Resp: 1576537

Ion Ratio Lower Upper

49 100

128 45.1 23.5 70.6

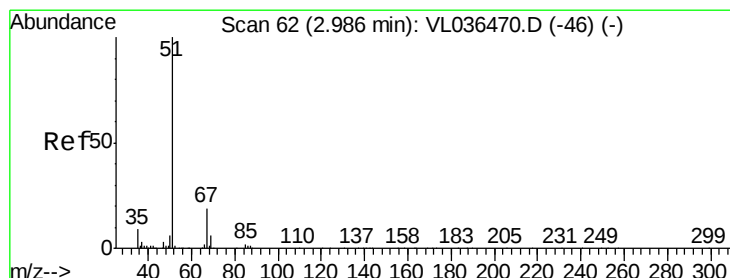
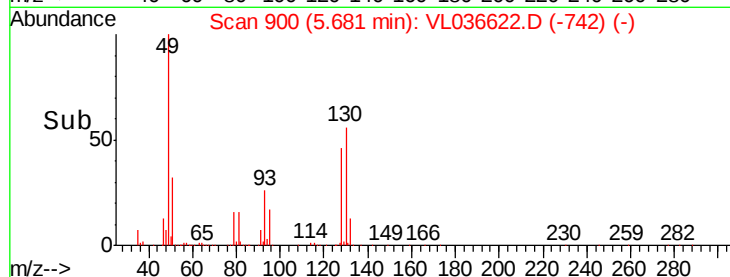
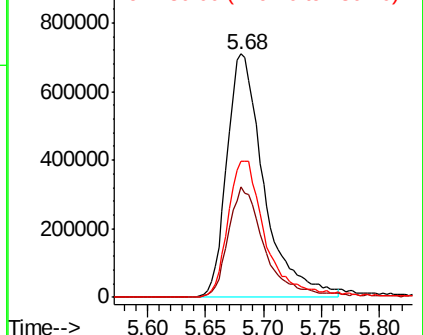
130 58.0 29.1 87.4



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



#3

Chlorodifluoromethane

Concen: 0.038 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.01 min

Lab File: VL036622.D

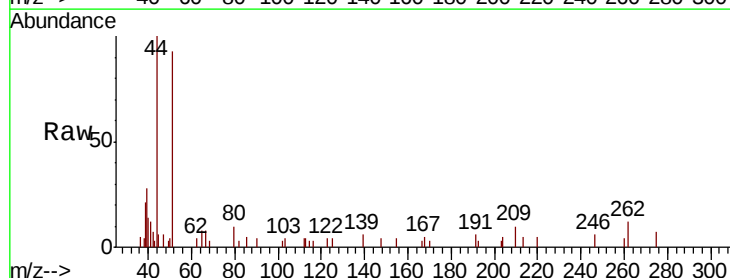
Acq: 1 Apr 2021 4:46

Tgt Ion: 51 Resp: 11142

Ion Ratio Lower Upper

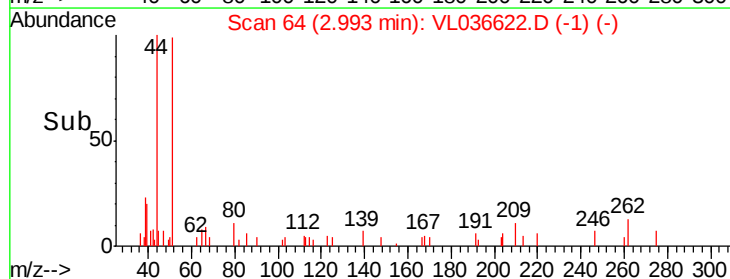
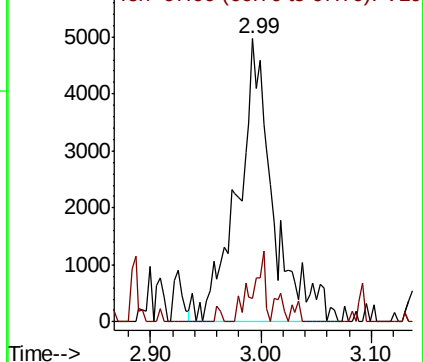
51 100

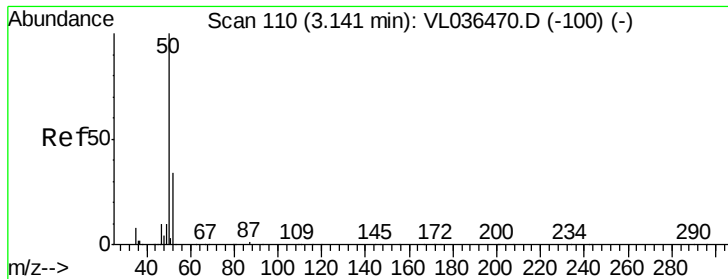
67 13.8 14.7 22.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.023 ppbv

RT: 3.15 min Scan# 113

Delta R.T. 0.01 min

Lab File: VL036622.D

Acq: 1 Apr 2021 4:46

Instrument :

MSVOA_L

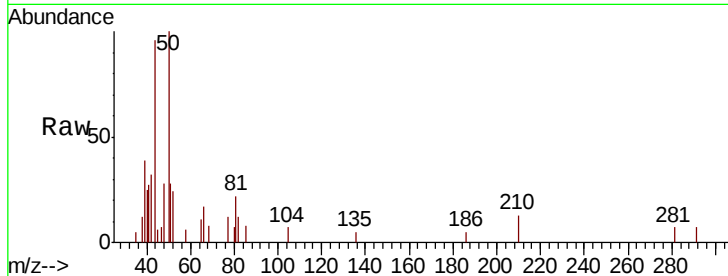
ClientSampleId :

Tot Ion: 50 Resp: 2406

Ion Ratio Lower Upper

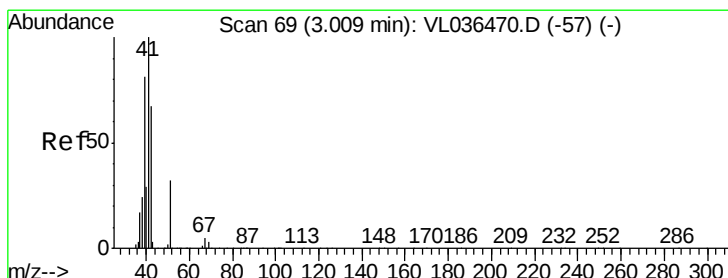
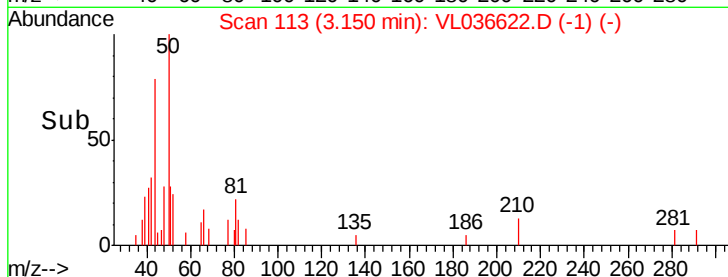
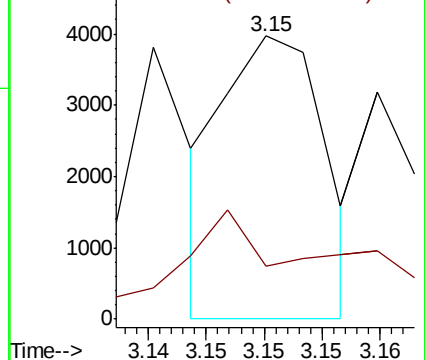
50 100

52 0.0 27.0 40.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.167 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL036622.D

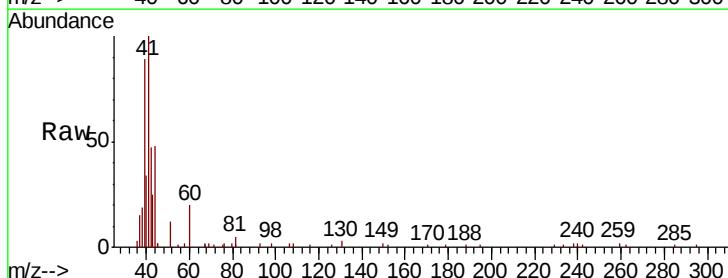
Acq: 1 Apr 2021 4:46

Tgt Ion: 41 Resp: 15660

Ion Ratio Lower Upper

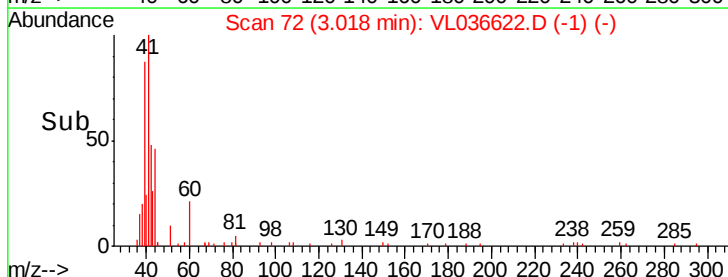
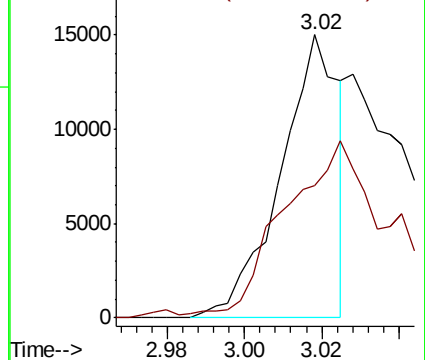
41 100

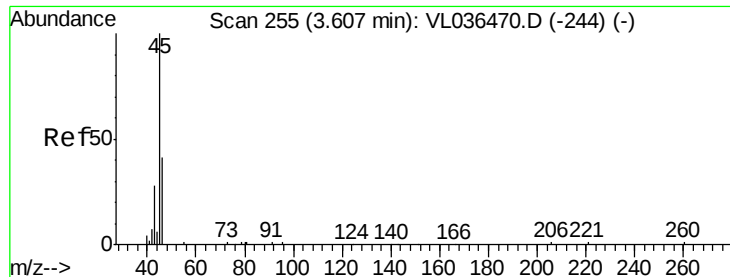
42 0.0 57.0 85.4#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

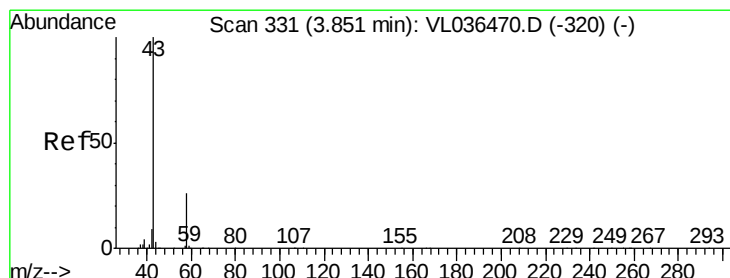
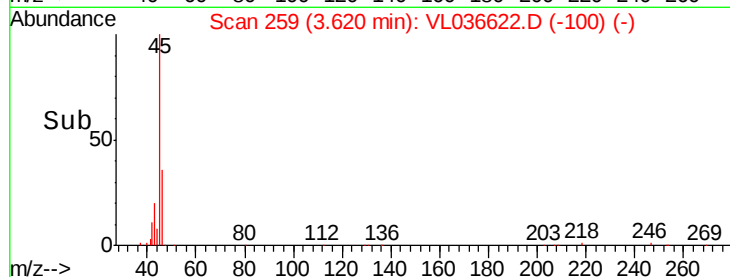
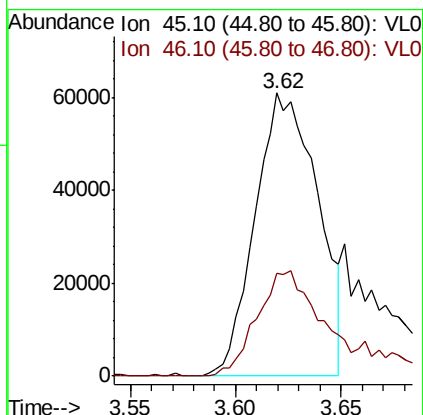
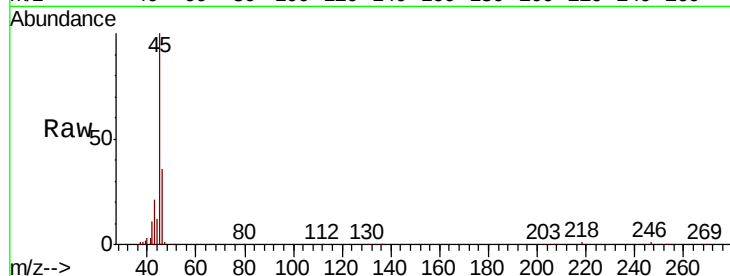




#13
Ethanol
Concen: 11.279 ppbv
RT: 3.62 min Scan# 259
Delta R.T. 0.01 min
Lab File: VL036622.D
Acq: 1 Apr 2021 4:46

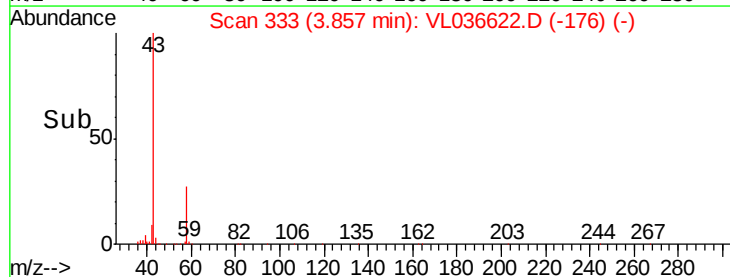
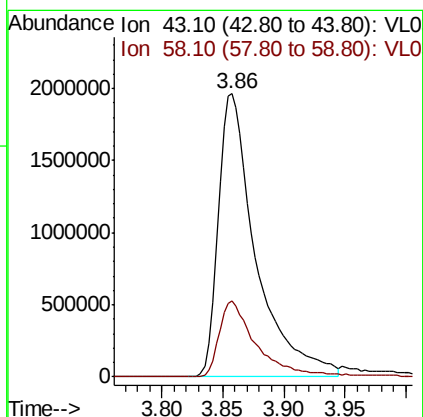
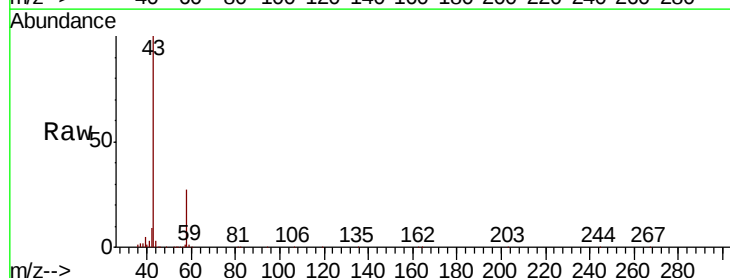
Instrument :
MSVOA_L
ClientSampleId :

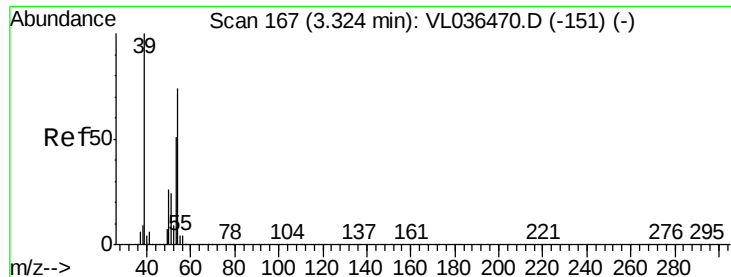
Tot Ion: 45 Resp: 126130
Ion Ratio Lower Upper
45 100
46 51.3 16.6 66.2



#15
Acetone
Concen: 27.314 ppbv
RT: 3.86 min Scan# 333
Delta R.T. 0.01 min
Lab File: VL036622.D
Acq: 1 Apr 2021 4:46

Tgt Ion: 43 Resp: 4238321
Ion Ratio Lower Upper
43 100
58 27.9 21.2 31.8

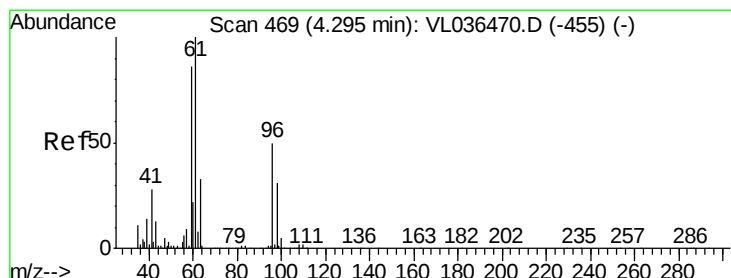
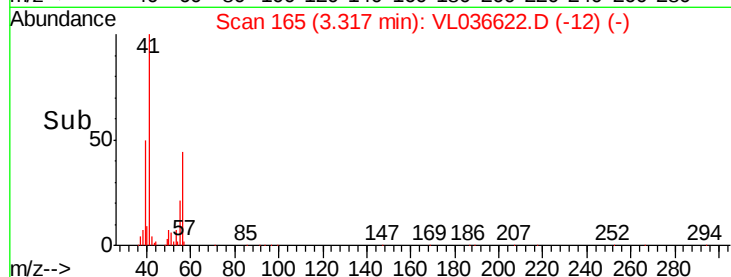
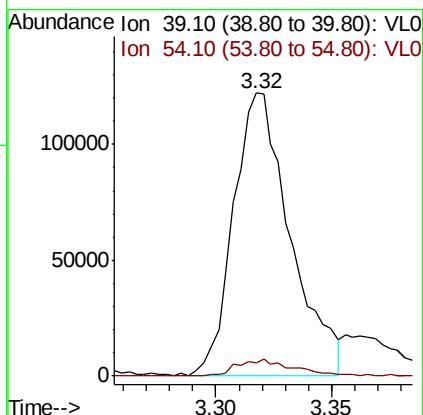
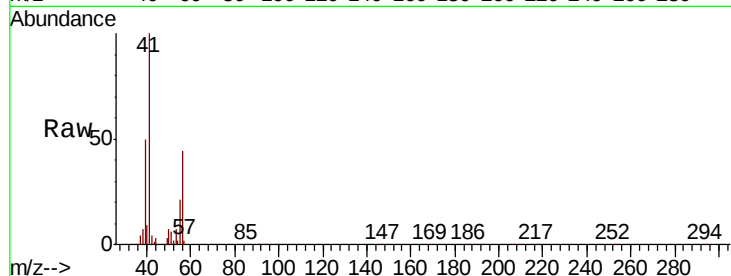




#16
 1,3-Butadiene
 Concen: 1.927 ppbv
 RT: 3.32 min Scan# 165
 Delta R.T. -0.01 min
 Lab File: VL036622.D
 Acq: 1 Apr 2021 4:46

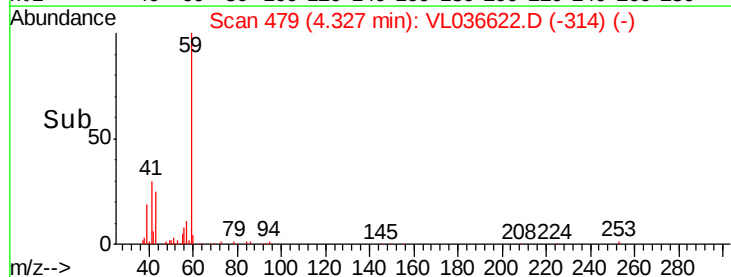
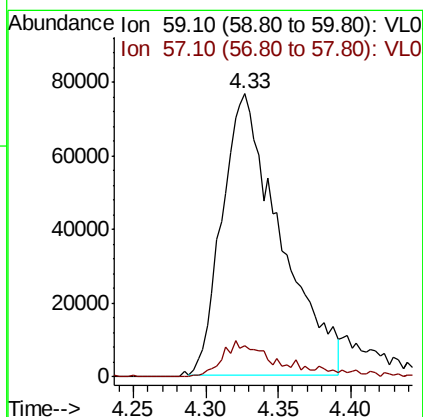
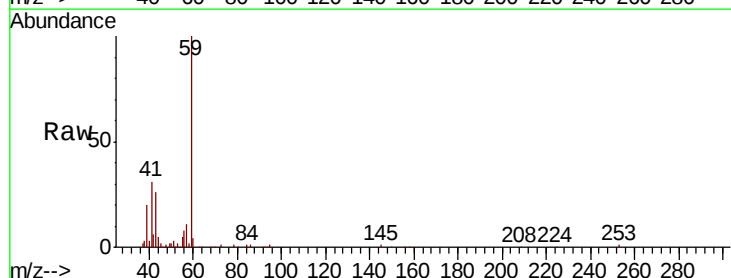
Instrument :
 MSVOA_L
 ClientSampleId :

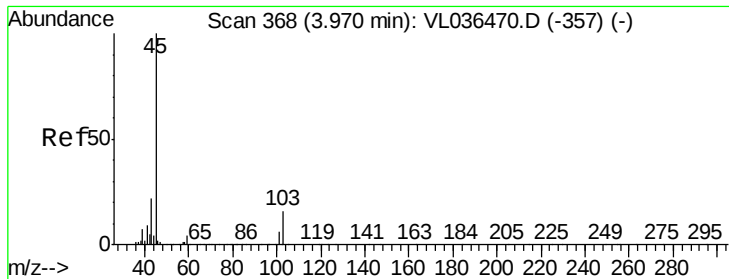
Tot Ion: 39 Resp: 208123
 Ion Ratio Lower Upper
 39 100
 54 6.1 58.8 88.2#



#17
 tert-Butyl alcohol
 Concen: 1.578 ppbv
 RT: 4.33 min Scan# 479
 Delta R.T. 0.03 min
 Lab File: VL036622.D
 Acq: 1 Apr 2021 4:46

Tgt Ion: 59 Resp: 213172
 Ion Ratio Lower Upper
 59 100
 57 12.9 8.6 12.8#





#19

Isopropyl Alcohol

Concen: 0.652 ppbv

RT: 3.99 min Scan# 375

Delta R.T. 0.02 min

Lab File: VL036622.D

Acq: 1 Apr 2021 4:46

Instrument :

MSVOA_L

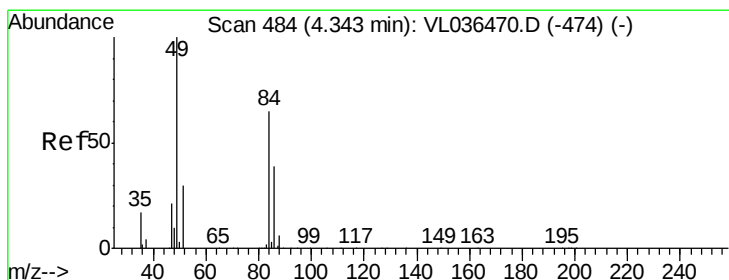
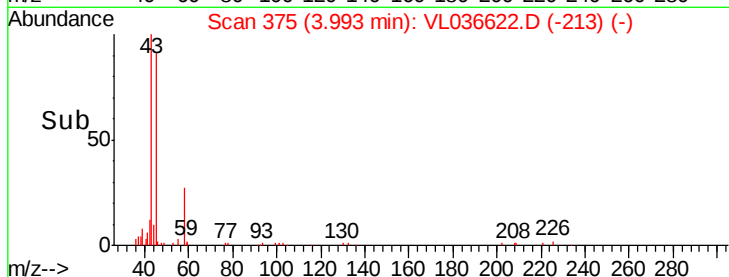
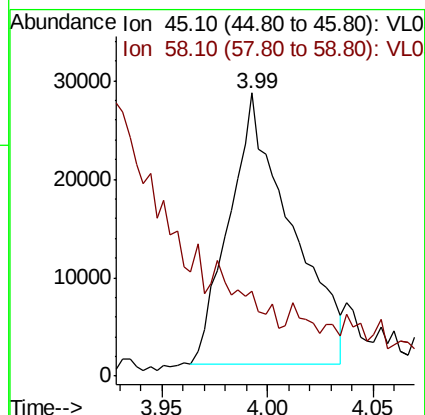
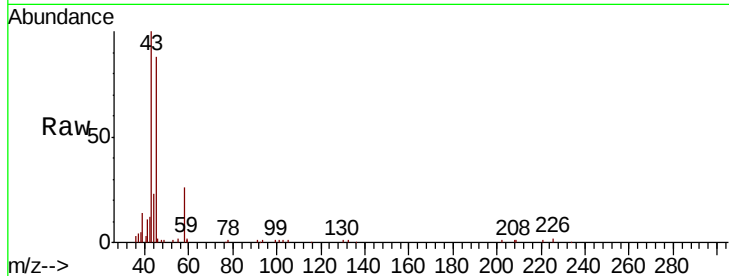
ClientSampleId :

Tot Ion: 45 Resp: 55618

Ion Ratio Lower Upper

45 100

58 0.0 2.9 4.3#



#20

Methylene Chloride

Concen: 0.583 ppbv

RT: 4.35 min Scan# 487

Delta R.T. 0.01 min

Lab File: VL036622.D

Acq: 1 Apr 2021 4:46

Tgt Ion: 84 Resp: 42350

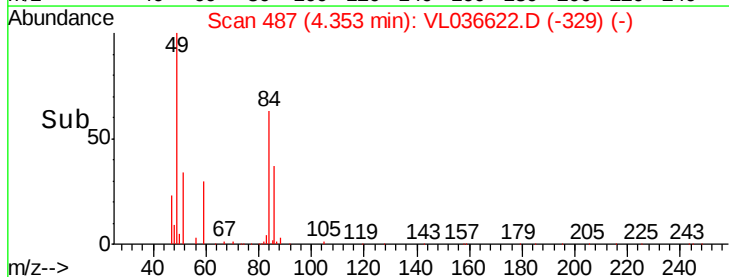
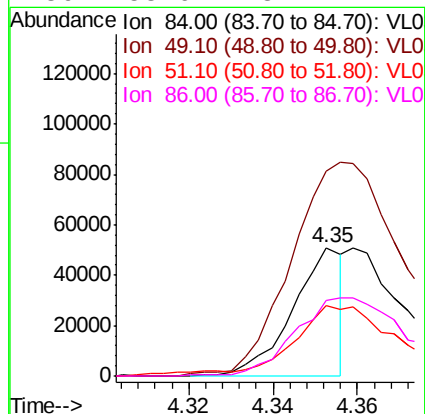
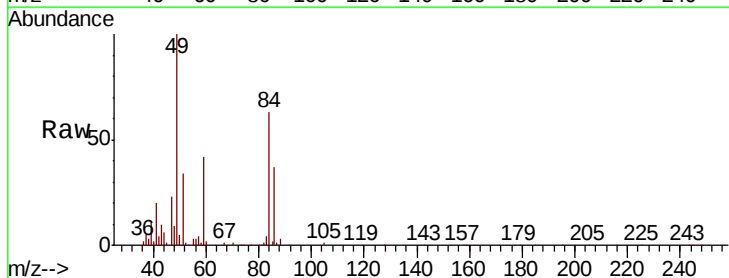
Ion Ratio Lower Upper

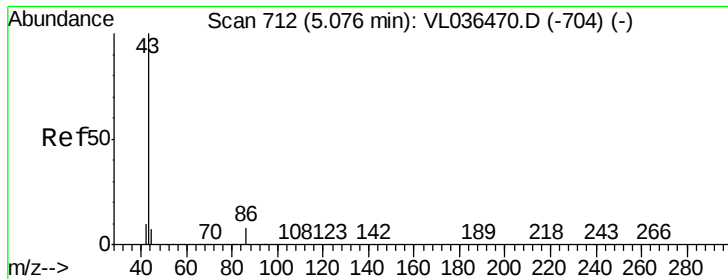
84 100

49 158.1 122.9 184.3

51 51.3 36.9 55.3

86 58.6 48.2 72.4





#23

Vinyl Acetate

Concen: 0.053 ppbv

RT: 5.12 min Scan# 727

Delta R.T. 0.05 min

Lab File: VL036622.D

Acq: 1 Apr 2021 4:46

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 43 Resp: 14112

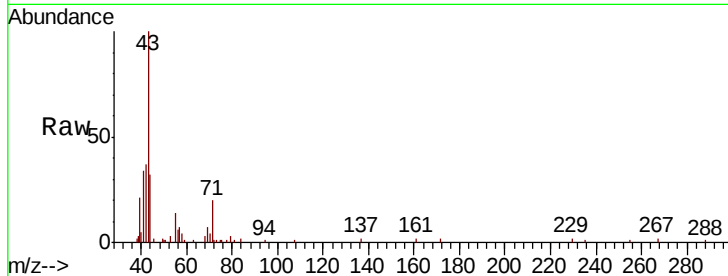
Ion Ratio Lower Upper

43 100

86 0.0 5.4 8.0#

42 26.4 8.5 12.7#

44 2.7 4.6 7.0#

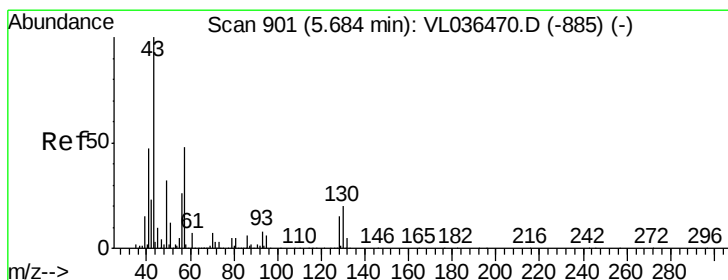
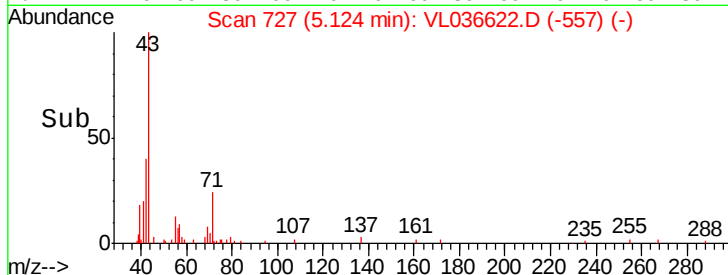
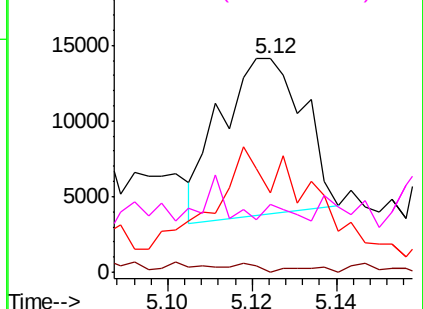


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 0.332 ppbv

RT: 5.70 min Scan# 907

Delta R.T. 0.02 min

Lab File: VL036622.D

Acq: 1 Apr 2021 4:46

Tgt Ion: 43 Resp: 122371

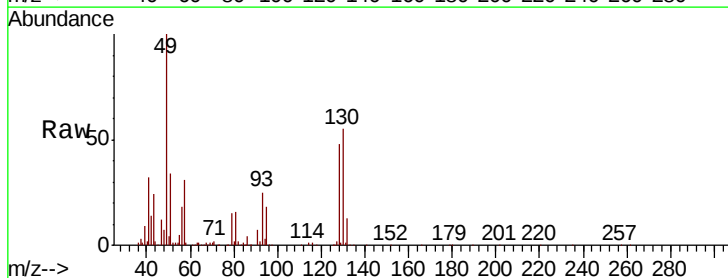
Ion Ratio Lower Upper

43 100

45 1.4 7.9 11.9#

61 0.3 7.4 11.2#

70 2.7 5.1 7.7#

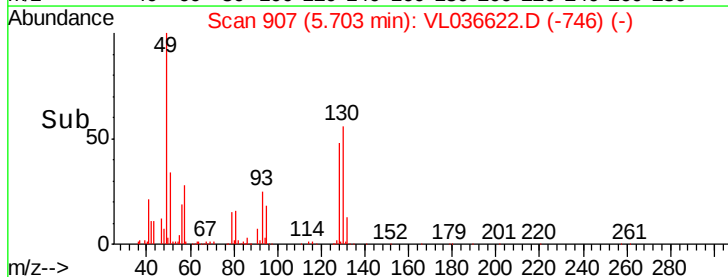
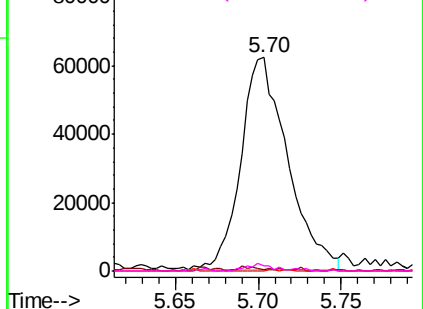


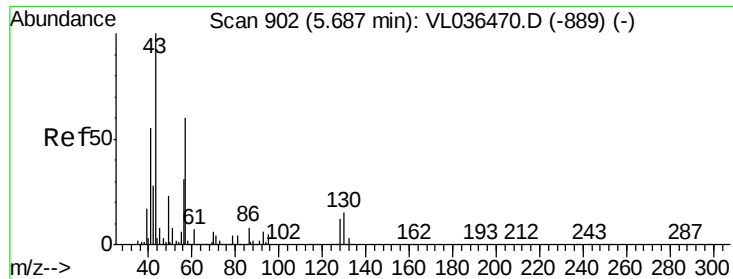
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

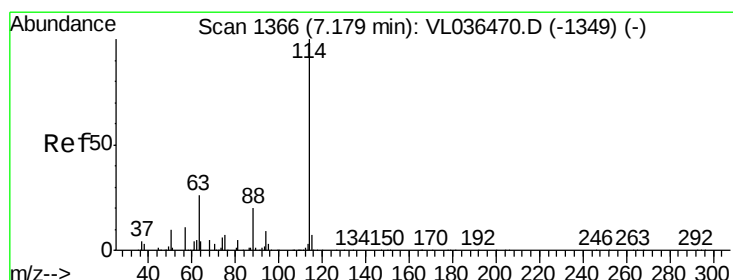
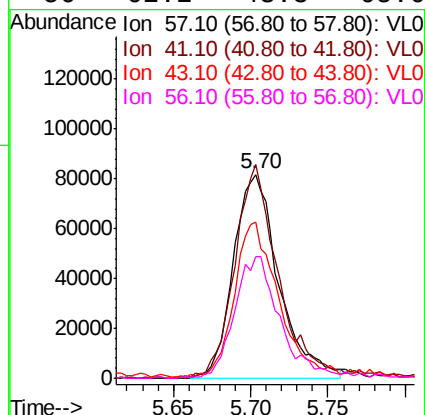
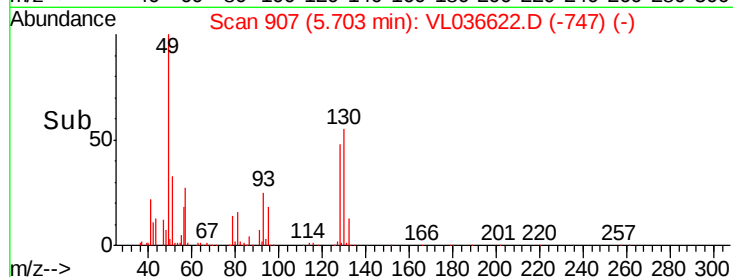
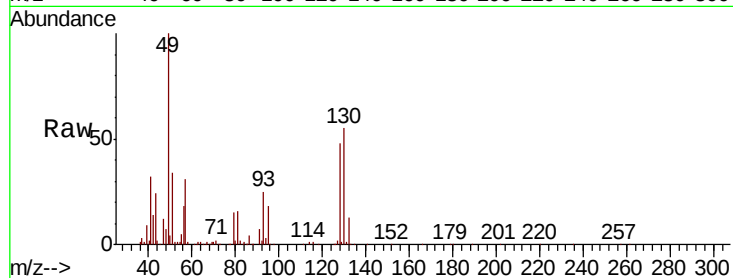




#26
Hexane
Concen: 0.972 ppbv
RT: 5.70 min Scan# 907
Delta R.T. 0.02 min
Lab File: VL036622.D
Acq: 1 Apr 2021 4:46

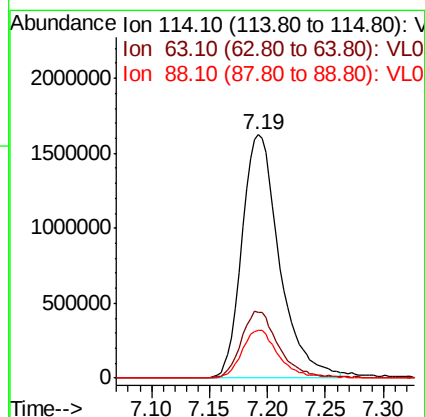
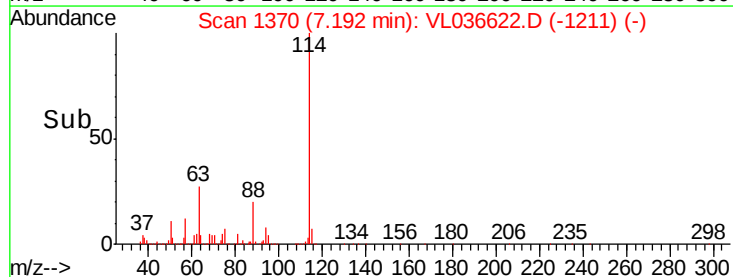
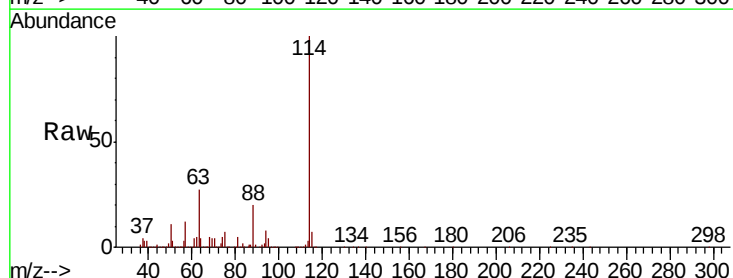
Instrument :
MSVOA_L
ClientSampleId :

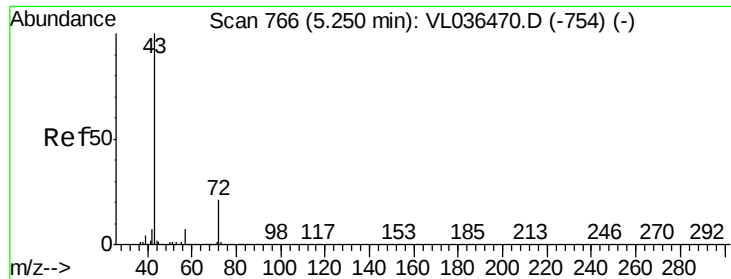
Tot Ion: 57 Resp: 166439
Ion Ratio Lower Upper
57 100
41 104.3 77.2 115.8
43 78.4 173.8 260.6#
56 62.2 43.8 65.6



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1370
Delta R.T. 0.01 min
Lab File: VL036622.D
Acq: 1 Apr 2021 4:46

Tgt Ion:114 Resp: 3652805
Ion Ratio Lower Upper
114 100
63 27.8 22.4 33.6
88 19.8 15.4 23.0

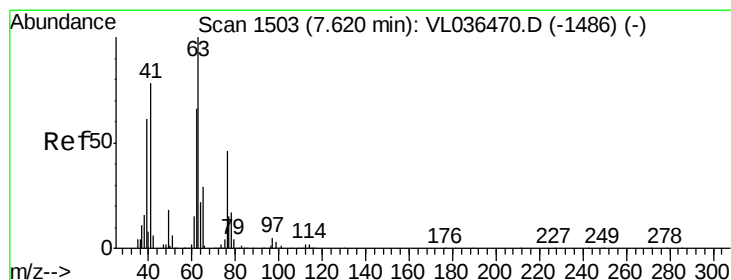
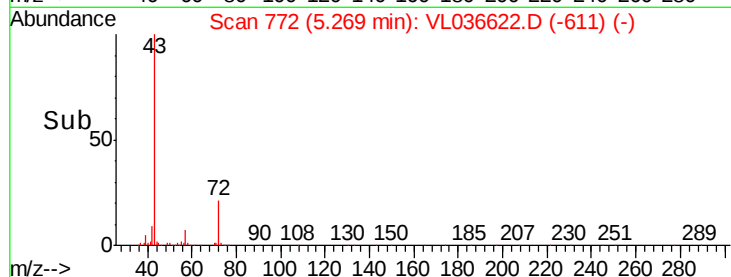
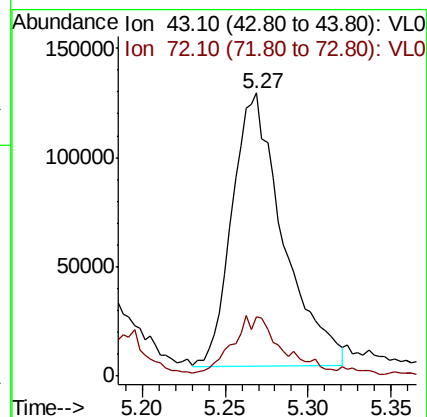
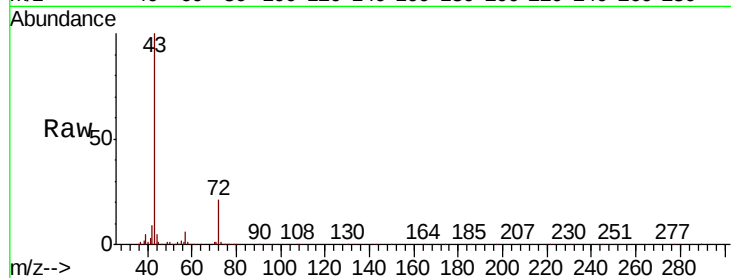




#34
2-Butanone
Concen: 1.502 ppbv
RT: 5.27 min Scan# 772
Delta R.T. 0.02 min
Lab File: VL036622.D
Acq: 1 Apr 2021 4:46

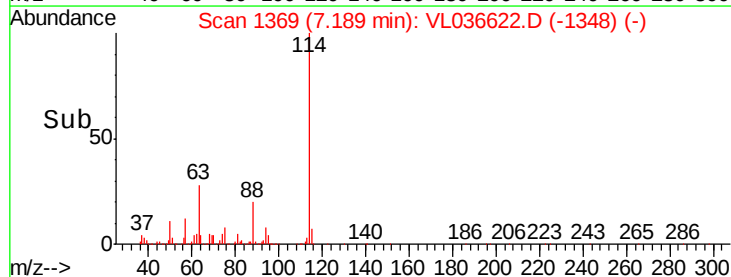
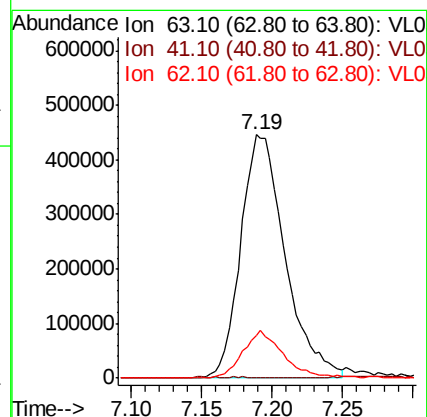
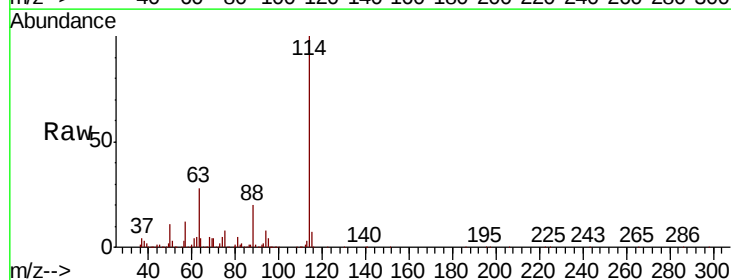
Instrument :
MSVOA_L
ClientSampled :

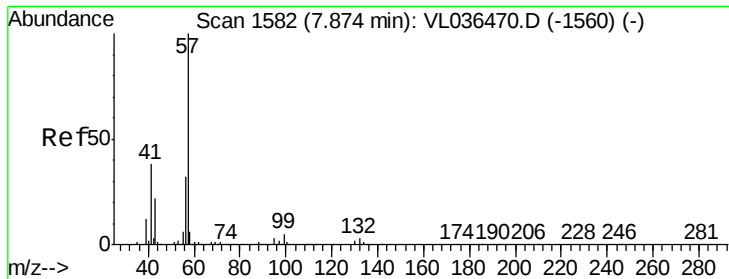
Tot Ion: 43 Resp: 267731
Ion Ratio Lower Upper
43 100
72 24.7 17.0 25.6



#39
1,2-Dichloropropane
Concen: 7.196 ppbv
RT: 7.19 min Scan# 1369
Delta R.T. -0.43 min
Lab File: VL036622.D
Acq: 1 Apr 2021 4:46

Tgt Ion: 63 Resp: 983367
Ion Ratio Lower Upper
63 100
41 0.0 62.4 93.6#
62 17.7 52.8 79.2#

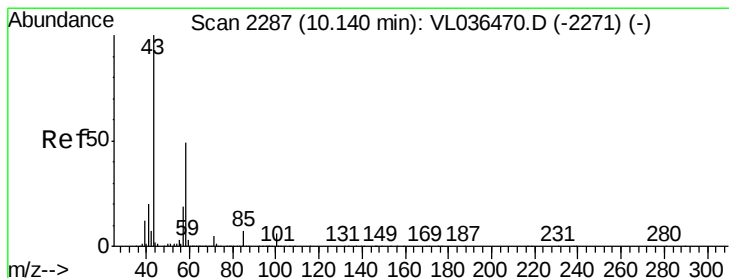
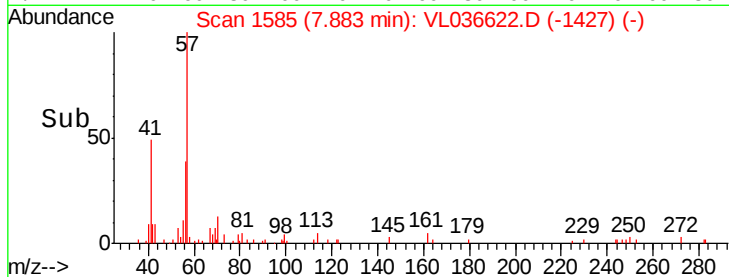
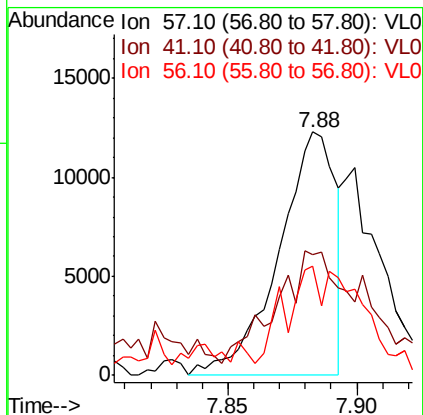
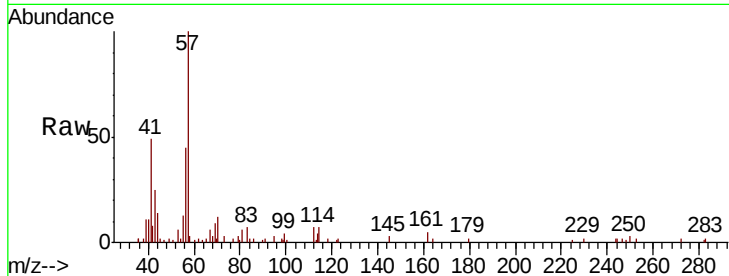




#44
 2,2,4-Trimethylpentane
 Concen: 0.032 ppbv
 RT: 7.88 min Scan# 1585
 Delta R.T. 0.01 min
 Lab File: VL036622.D
 Acq: 1 Apr 2021 4:46

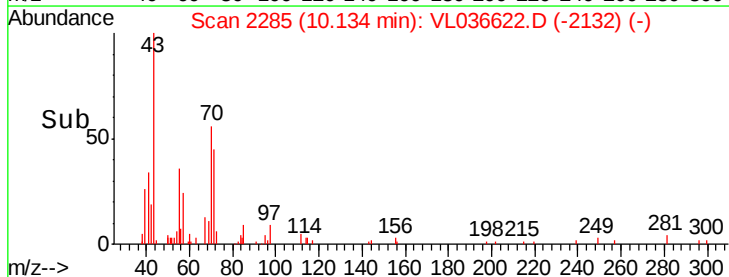
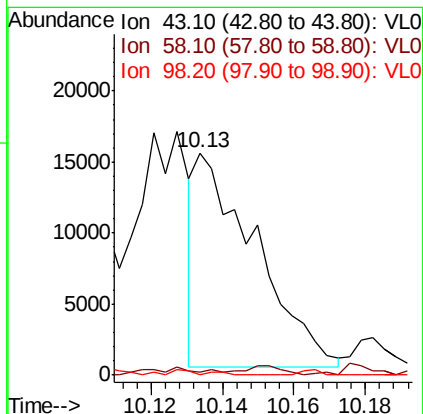
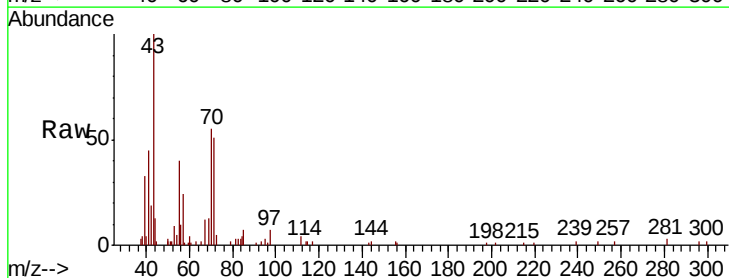
Instrument :
 MSVOA_L
 ClientSampleId :

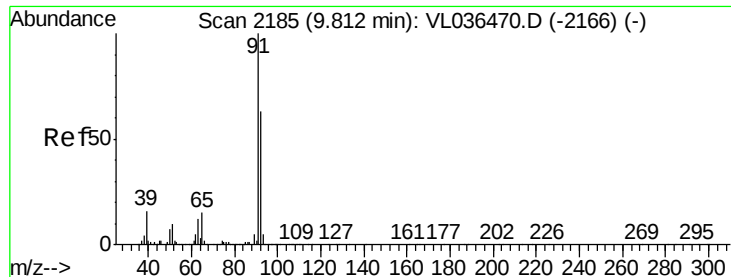
Tot Ion: 57 Resp: 18741
 Ion Ratio Lower Upper
 57 100
 41 75.0 28.8 43.2#
 56 69.4 26.1 39.1#



#51
 2-Hexanone
 Concen: 0.133 ppbv
 RT: 10.13 min Scan# 2285
 Delta R.T. -0.01 min
 Lab File: VL036622.D
 Acq: 1 Apr 2021 4:46

Tgt Ion: 43 Resp: 17376
 Ion Ratio Lower Upper
 43 100
 58 6.3 37.7 56.5#
 98 0.0 0.2 0.2#





#53

Toluene

Concen: 0.395 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. 0.01 min

Lab File: VL036622.D

Acq: 1 Apr 2021 4:46

Instrument :

MSVOA_L

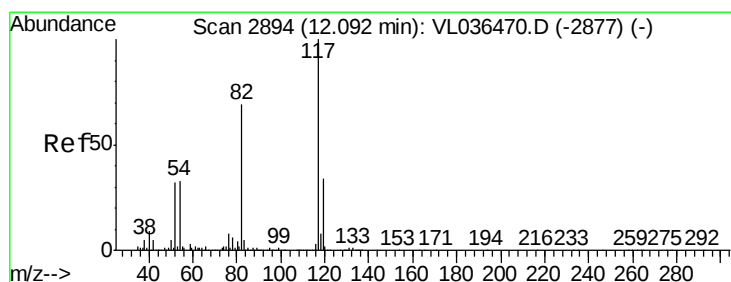
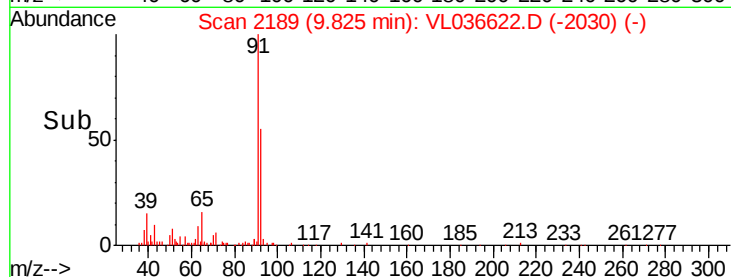
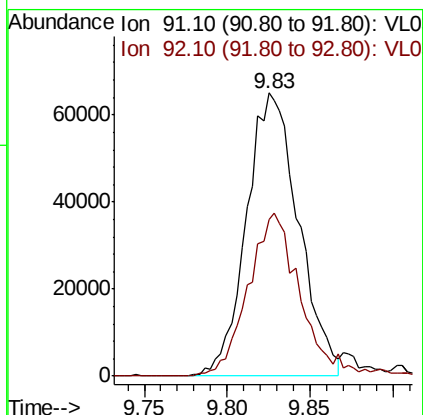
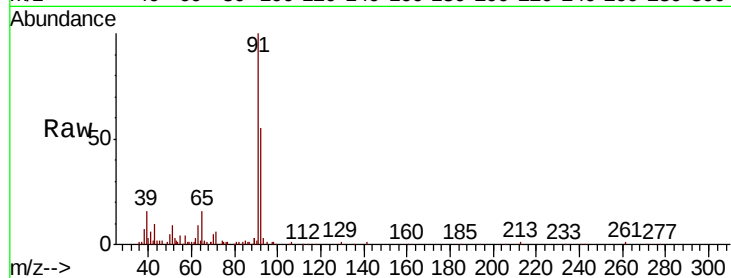
ClientSampleId :

Tot Ion: 91 Resp: 141870

Ion Ratio Lower Upper

91 100

92 59.1 48.8 73.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2899

Delta R.T. 0.02 min

Lab File: VL036622.D

Acq: 1 Apr 2021 4:46

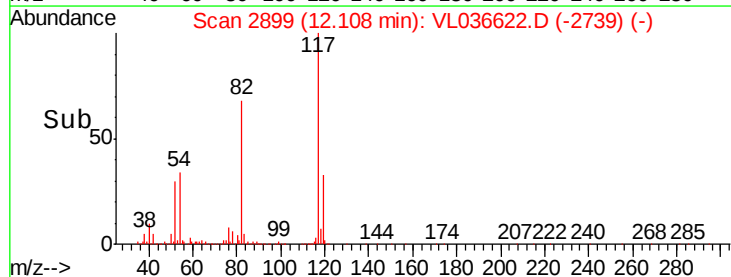
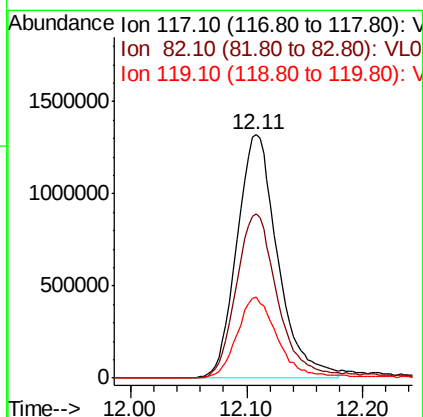
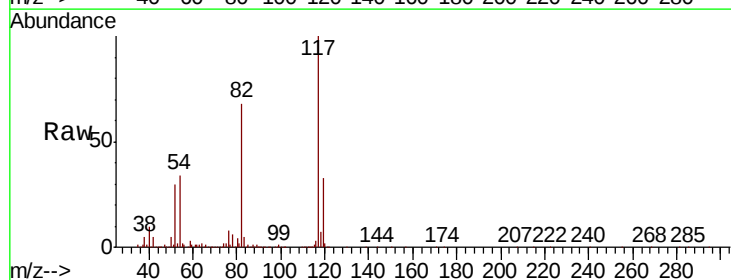
Tgt Ion: 117 Resp: 3233954

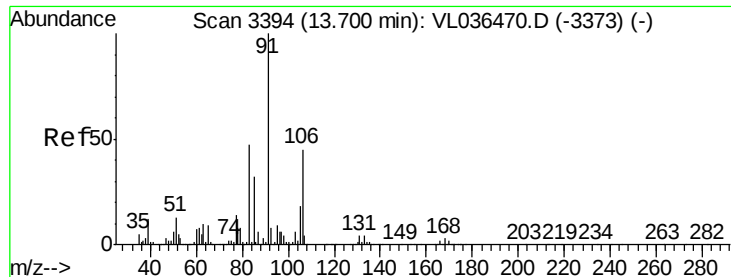
Ion Ratio Lower Upper

117 100

82 71.8 57.4 86.0

119 34.0 47.4 71.0#

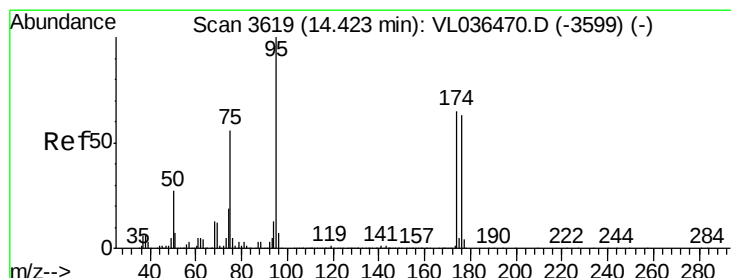
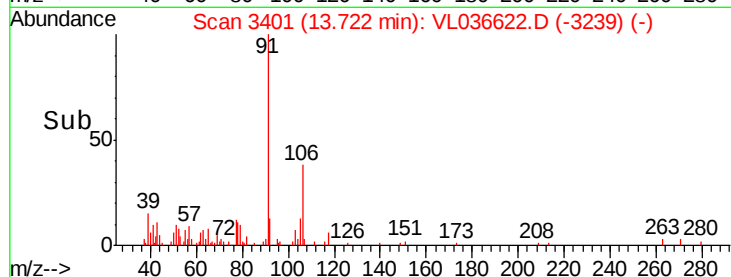
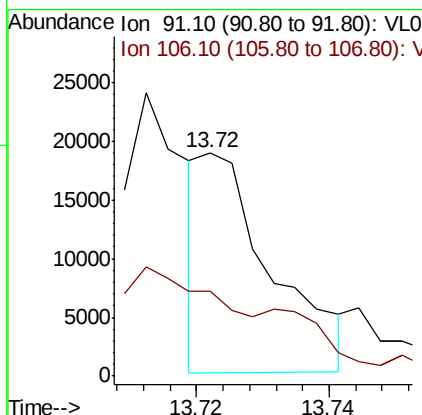
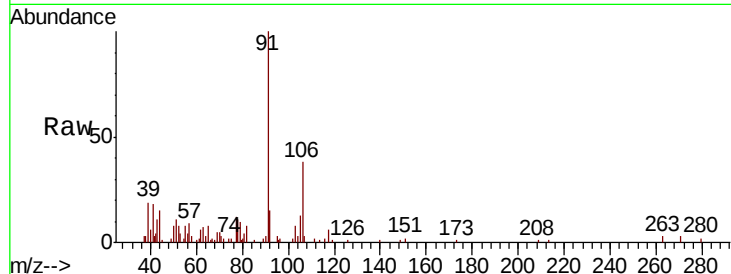




#60
o-Xylene
Concen: 0.035 ppbv
RT: 13.72 min Scan# 3401
Delta R.T. 0.02 min
Lab File: VL036622.D
Acq: 1 Apr 2021 4:46

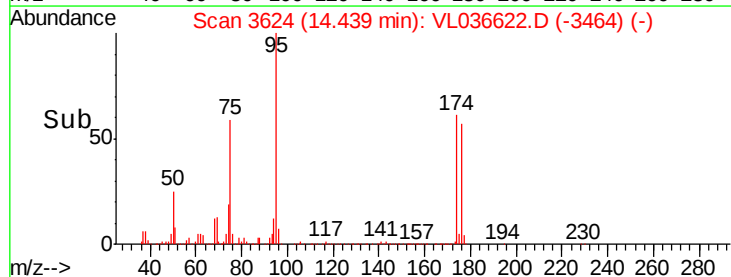
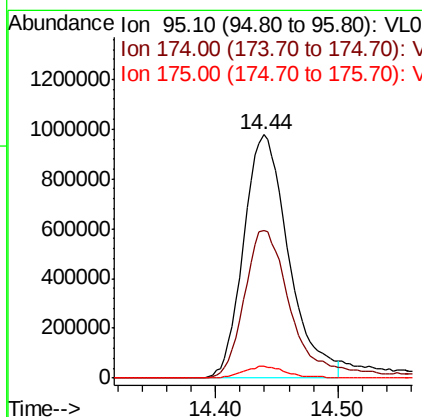
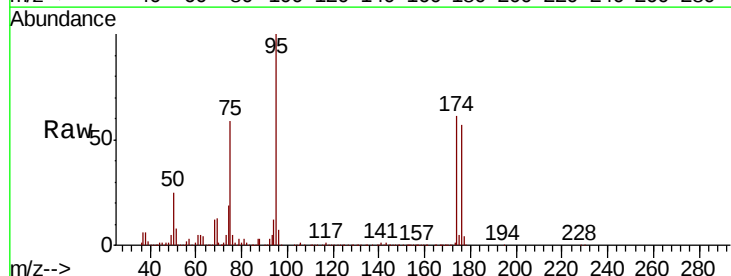
Instrument :
MSVOA_L
ClientSampled :

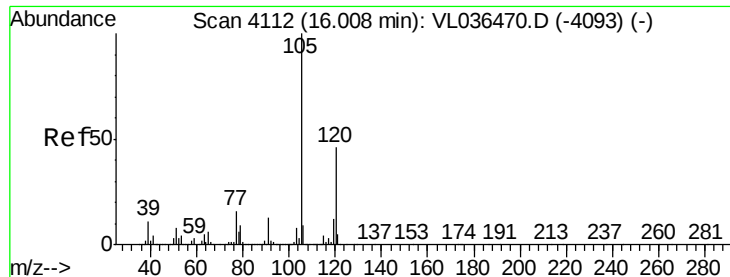
Tot Ion: 91 Resp: 13907
Ion Ratio Lower Upper
91 100
106 0.0 22.3 66.9#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.691 ppbv
RT: 14.44 min Scan# 3624
Delta R.T. 0.02 min
Lab File: VL036622.D
Acq: 1 Apr 2021 4:46

Tgt Ion: 95 Resp: 2497747
Ion Ratio Lower Upper
95 100
174 66.4 51.0 76.6
175 4.8 3.9 5.9





#73

1,3,5-Trimethylbenzene

Concen: 0.032 ppbv

RT: 16.02 min Scan# 4117

Delta R.T. 0.02 min

Lab File: VL036622.D

Acq: 1 Apr 2021 4:46

Instrument :

MSVOA_L

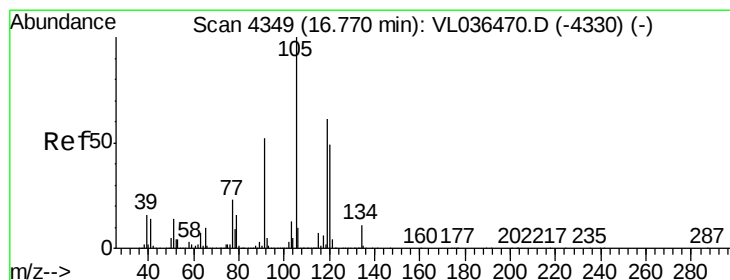
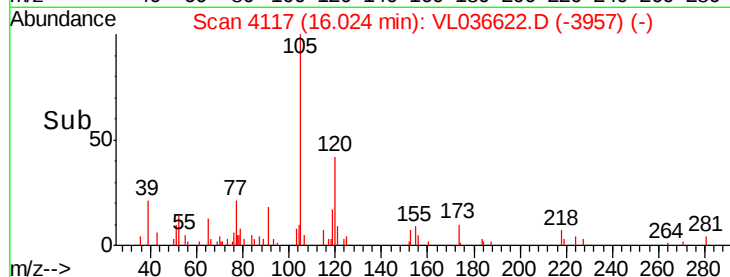
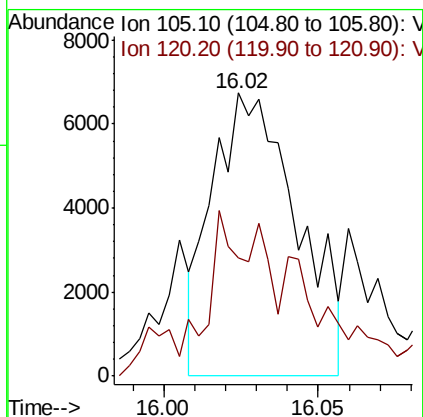
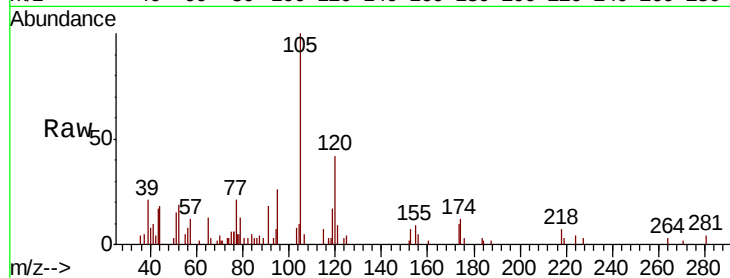
ClientSampleId :

Tot Ion:105 Resp: 12891

Ion Ratio Lower Upper

105 100

120 30.8 36.6 54.8#



#74

1,2,4-Trimethylbenzene

Concen: 0.063 ppbv

RT: 16.80 min Scan# 4357

Delta R.T. 0.03 min

Lab File: VL036622.D

Acq: 1 Apr 2021 4:46

Tgt Ion:105 Resp: 27307

Ion Ratio Lower Upper

105 100

120 51.0 39.2 58.8

91 13.6 42.6 64.0#

77 17.9 18.6 28.0#

