

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081621\
 Data File : VL037473.D
 Acq On : 16 Aug 2021 22:40
 Operator : SY/AP
 Sample : L1314-01DL 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 17 02:23:35 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 17 02:13:47 2021
 QLast Update : Tue Aug 17 02:13:47 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1328648	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4231627	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3744164	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2810084	10.56	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.60%

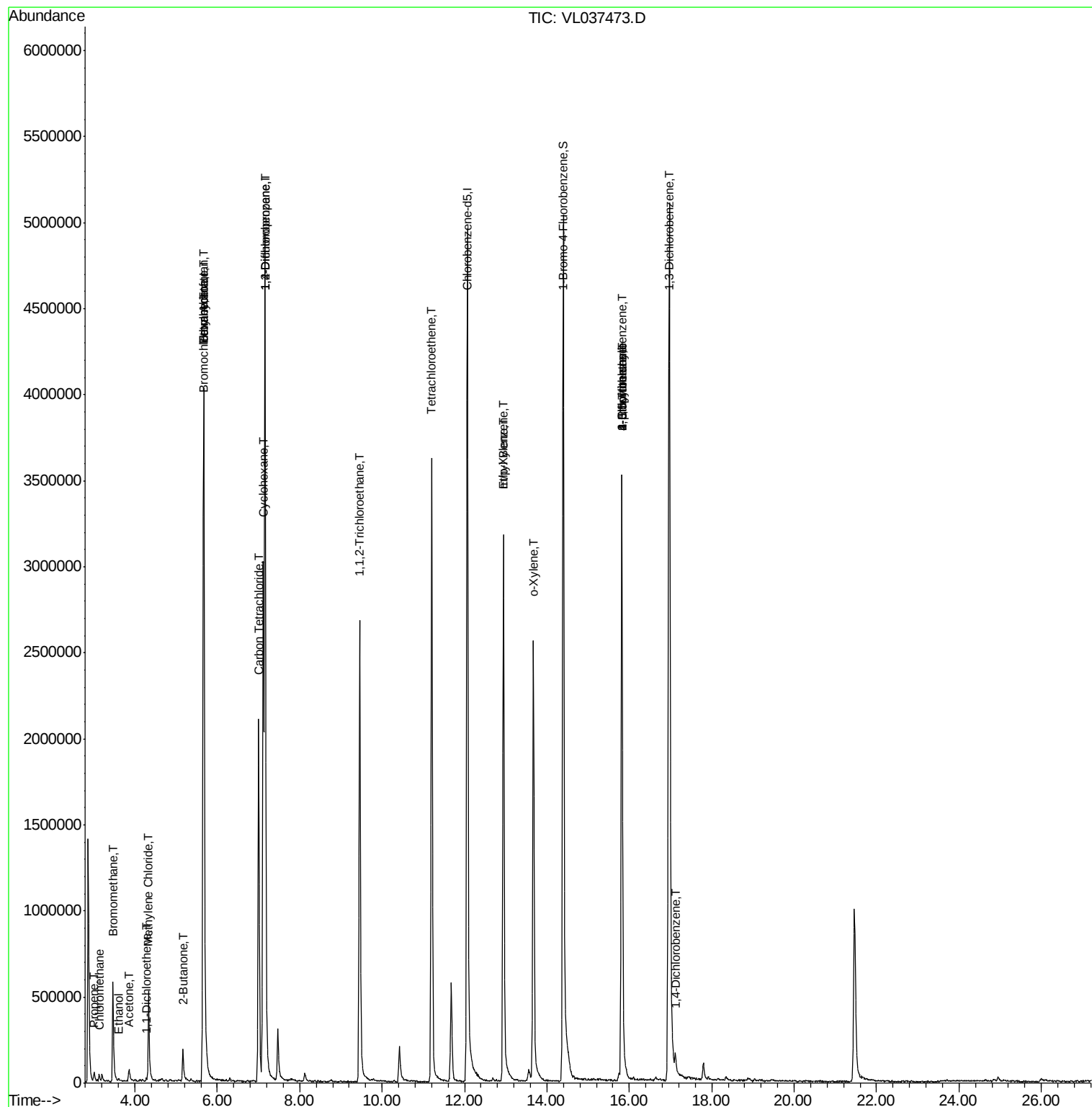
Target Compounds					Ovalue
4) Chloromethane	3.13	50	24191	0.266 ppbv	96
6) Bromomethane	3.47	94	408815	8.012 ppbv	100
9) Propene	3.00	41	3435	0.038 ppbv #	16
13) Ethanol	3.61	45	6751	0.762 ppbv #	25
15) Acetone	3.84	43	30167	0.223 ppbv #	44
18) 1,1-Dichloroethene	4.28	96	2032	0.030 ppbv #	82
20) Methylene Chloride	4.33	84	211764	3.128 ppbv	92
25) Ethyl Acetate	5.67	43	935310	2.725 ppbv #	76
26) Hexane	5.67	57	1365938	8.139 ppbv #	45
30) Cyclohexane	7.11	84	1128852	8.072 ppbv	97
34) 2-Butanone	5.17	43	72916	0.422 ppbv #	1
35) Carbon Tetrachloride	7.00	117	1405872	5.622 ppbv	97
39) 1,2-Dichloropropane	7.16	63	952688	6.970 ppbv #	31
41) Tetrahydrofuran	5.67	42	491124	5.900 ppbv #	50
47) 1,1,2-Trichloroethane	9.45	97	1070545	7.248 ppbv	98
52) Tetrachloroethene	11.21	164	1015257	6.965 ppbv	97
58) Ethyl Benzene	12.95	91	2587277	4.979 ppbv #	77
59) m/p-Xylene	12.95	91	2587277	5.744 ppbv	97
60) o-Xylene	13.67	91	2215379	5.269 ppbv	98
64) n-propylbenzene	15.82	120	941960	6.238 ppbv #	1
71) 2-Chlorotoluene	15.81	91	155075	0.356 ppbv #	41
72) 4-Ethyltoluene	15.82	105	3319358	6.638 ppbv	99
73) 1,3,5-Trimethylbenzene	15.82	105	3319358	7.131 ppbv #	73
75) 1,3-Dichlorobenzene	16.98	146	1360671	4.570 ppbv	99
76) 1,4-Dichlorobenzene	17.12	146	23665	0.079 ppbv #	1

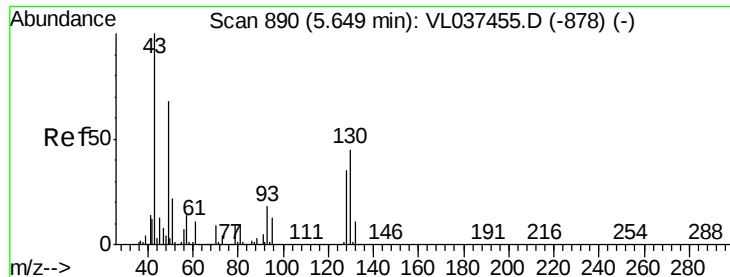
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampled :

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
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QLast Update : Tue Aug 17 02:13:47 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. 0.00 min

Lab File: VL037473.D

Acq: 16 Aug 2021 22:40

Instrument :
MSVOA_L
ClientSampleId :

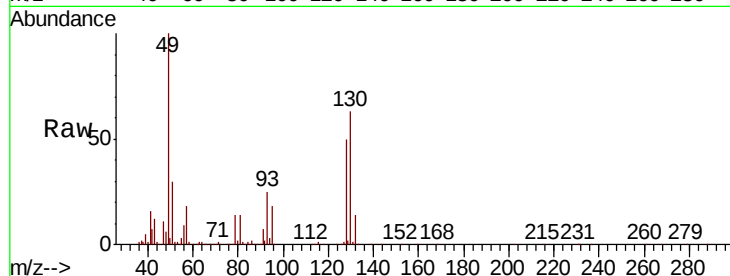
Tot Ion: 49 Resp: 1328648

Ion Ratio Lower Upper

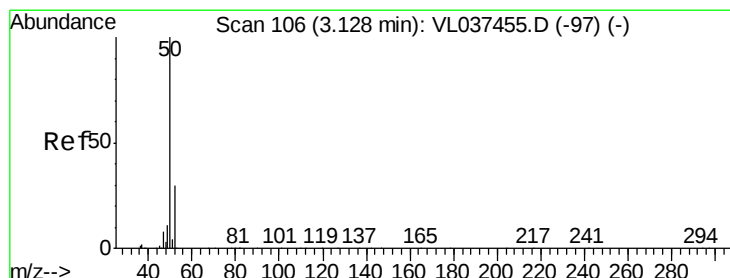
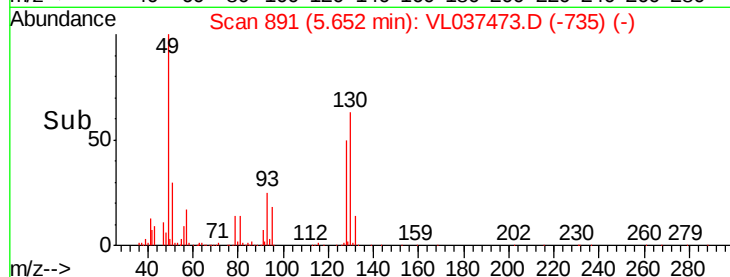
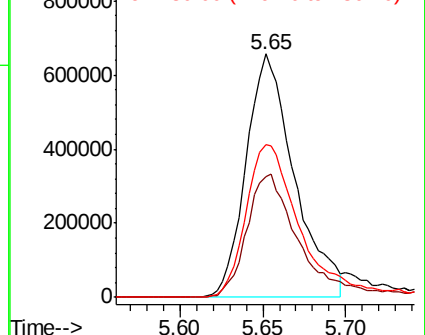
49 100

128 58.5 27.5 82.4

130 73.6 34.0 101.8



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



#4

Chloromethane

Concen: 0.266 ppbv

RT: 3.13 min Scan# 108

Delta R.T. 0.01 min

Lab File: VL037473.D

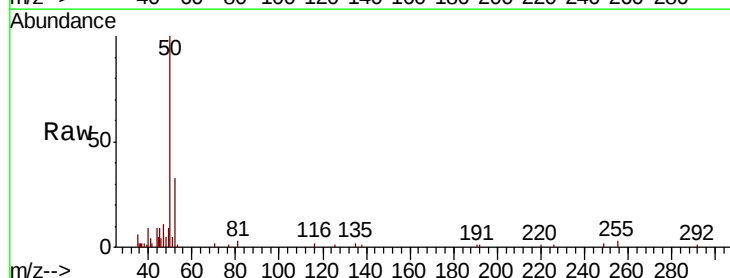
Acq: 16 Aug 2021 22:40

Tgt Ion: 50 Resp: 24191

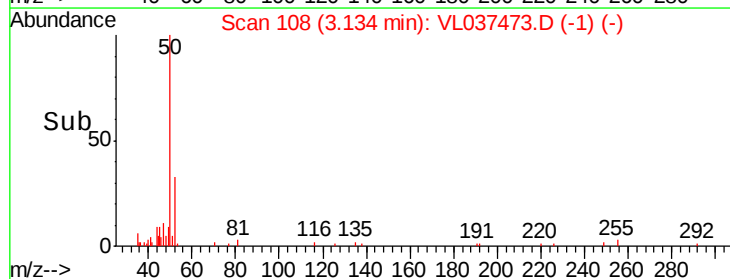
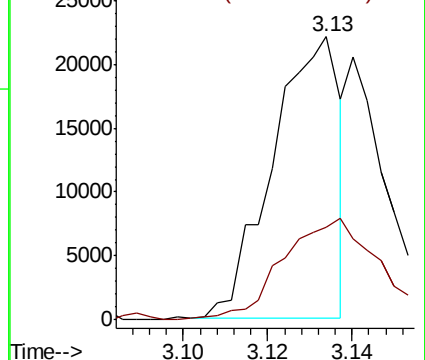
Ion Ratio Lower Upper

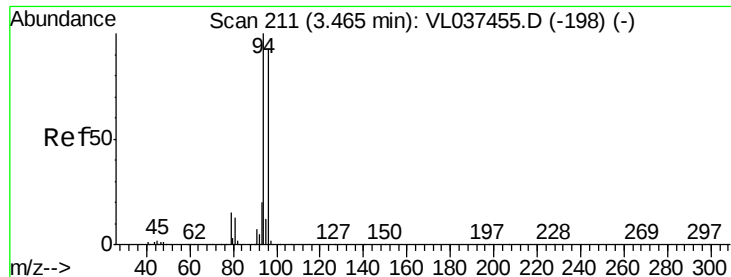
50 100

52 32.3 24.0 36.0



Abundance Ion 50.10 (49.80 to 50.80): VL0
Ion 52.10 (51.80 to 52.80): VL0





#6

Bromomethane

Concen: 8.012 ppbv

RT: 3.47 min Scan# 212

Delta R.T. 0.00 min

Lab File: VL037473.D

Acq: 16 Aug 2021 22:40

Instrument :

MSVOA_L

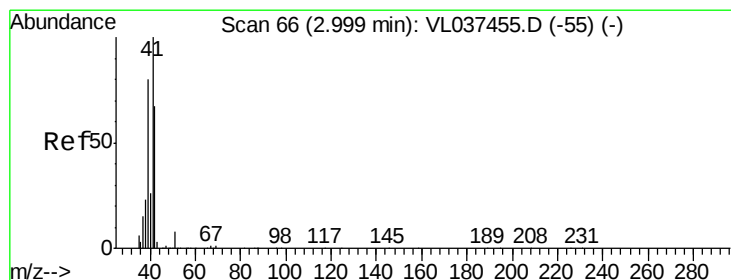
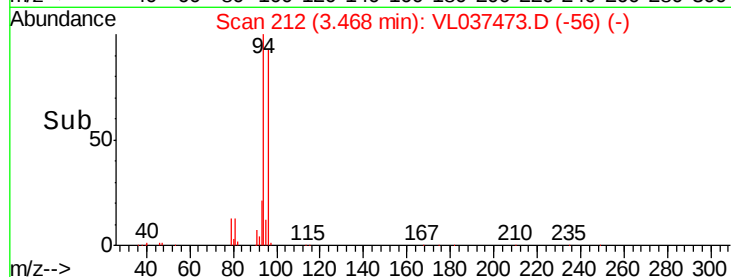
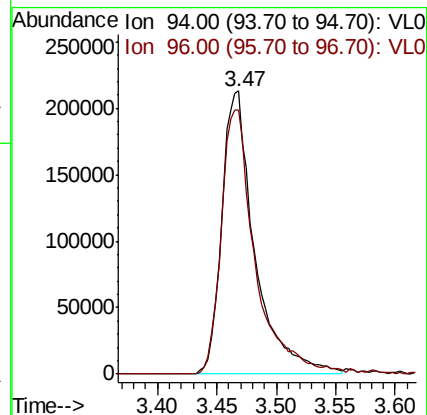
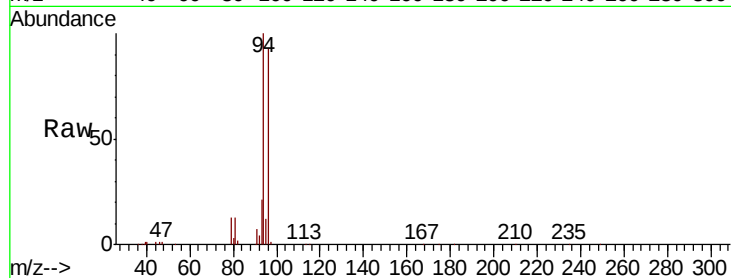
ClientSampleId :

Tot Ion: 94 Resp: 408815

Ion Ratio Lower Upper

94 100

96 93.3 74.5 111.7



#9

Propene

Concen: 0.038 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.00 min

Lab File: VL037473.D

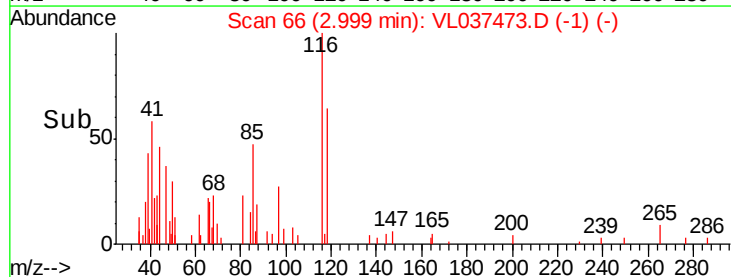
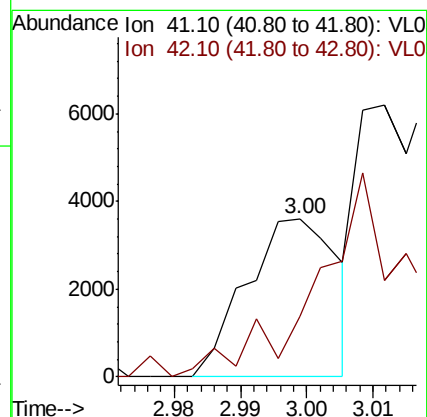
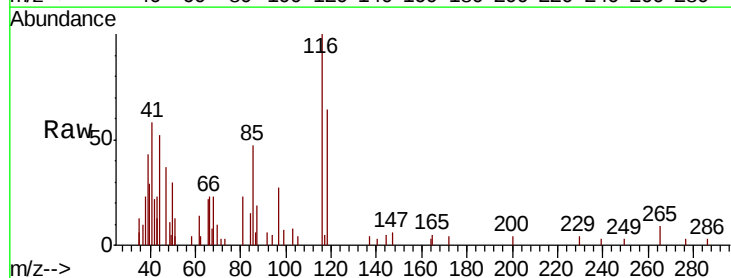
Acq: 16 Aug 2021 22:40

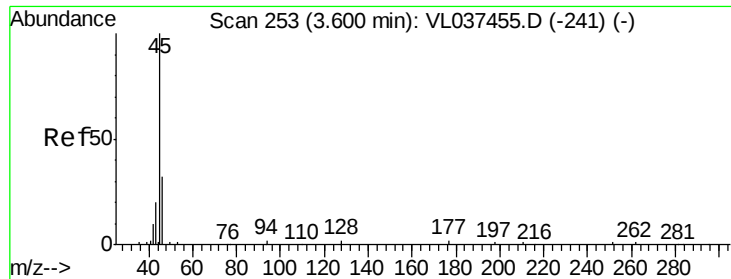
Tgt Ion: 41 Resp: 3435

Ion Ratio Lower Upper

41 100

42 0.0 53.7 80.5#





#13

Ethanol

Concen: 0.762 ppbv

RT: 3.61 min Scan# 256

Delta R.T. 0.01 min

Lab File: VL037473.D

Acq: 16 Aug 2021 22:40

Instrument :

MSVOA_L

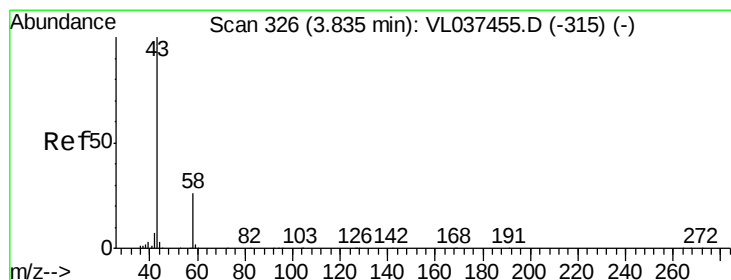
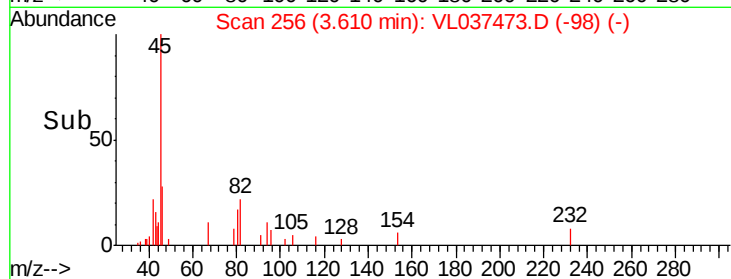
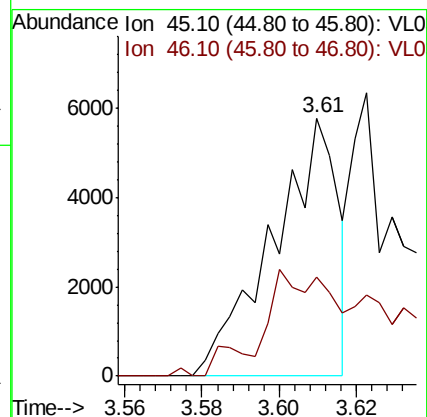
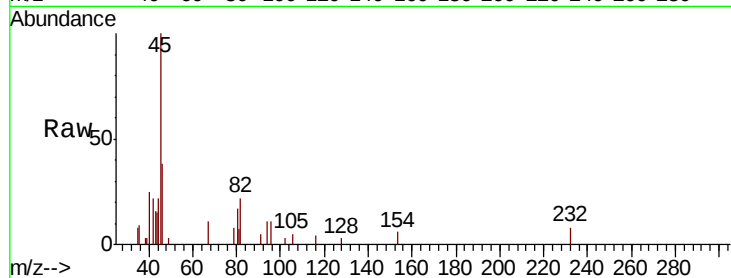
ClientSampleId :

Tot Ion: 45 Resp: 6751

Ion Ratio Lower Upper

45 100

46 79.2 14.1 56.5#



#15

Acetone

Concen: 0.223 ppbv

RT: 3.84 min Scan# 329

Delta R.T. 0.01 min

Lab File: VL037473.D

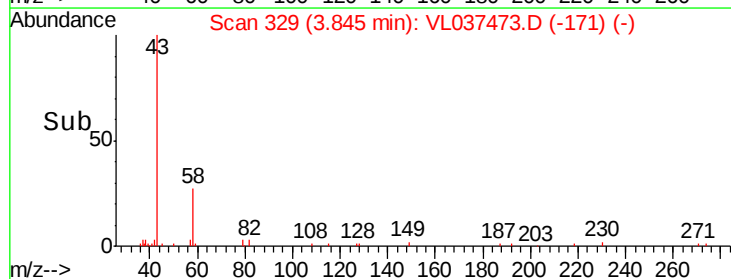
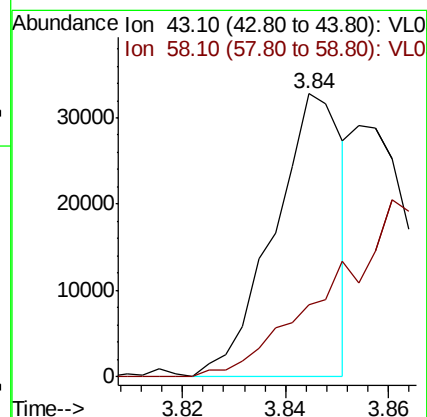
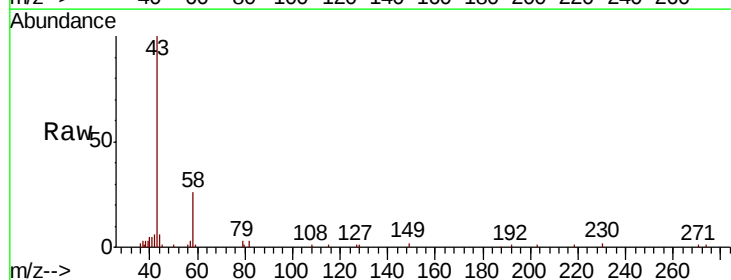
Acq: 16 Aug 2021 22:40

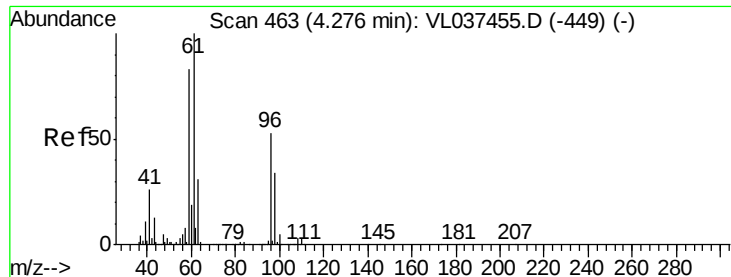
Tgt Ion: 43 Resp: 30167

Ion Ratio Lower Upper

43 100

58 0.0 24.8 37.2#

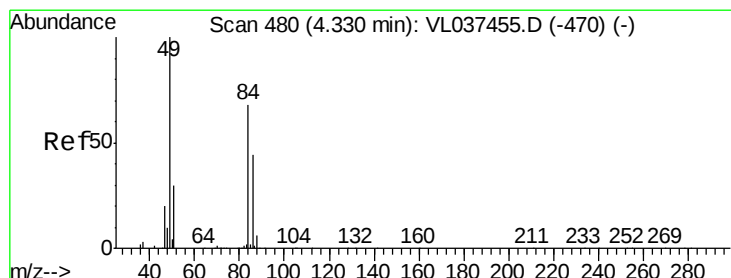
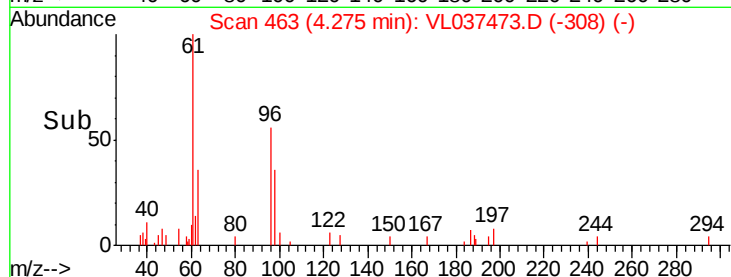
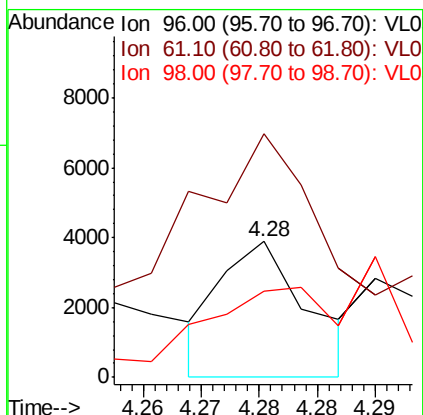
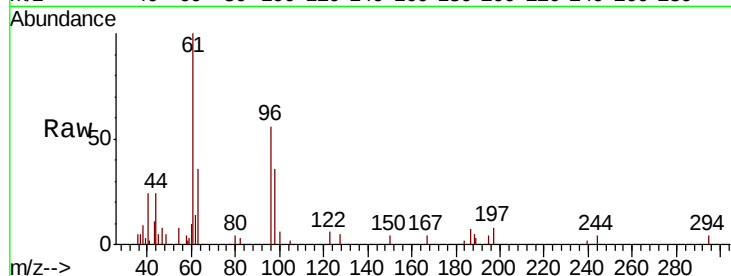




#18
 1,1-Dichloroethene
 Concen: 0.030 ppbv
 RT: 4.28 min Scan# 463
 Delta R.T. -0.00 min
 Lab File: VL037473.D
 Acq: 16 Aug 2021 22:40

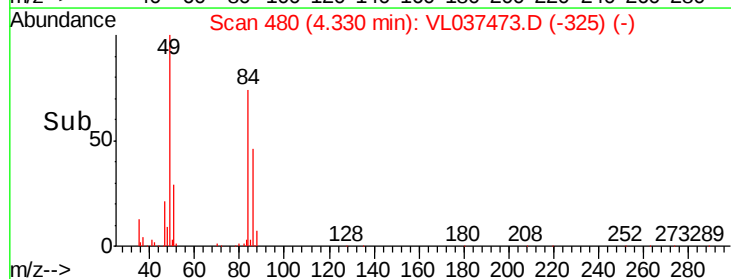
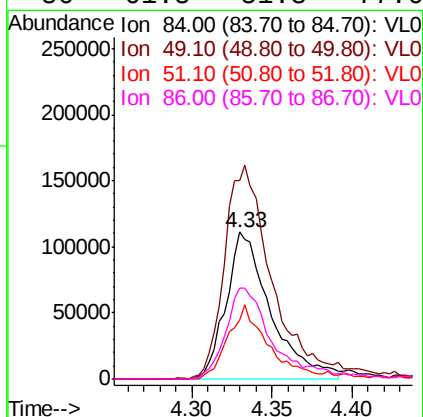
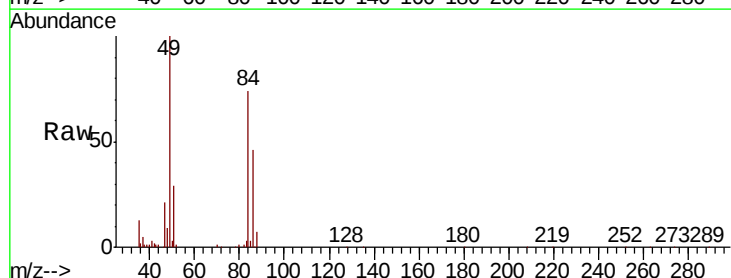
Instrument :
 MSVOA_L
 ClientSampleId :

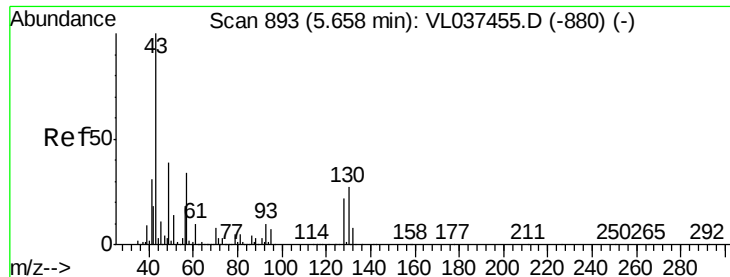
Tot Ion: 96 Resp: 2032
 Ion Ratio Lower Upper
 96 100
 61 167.3 151.1 226.7
 98 43.7 51.8 77.8#



#20
 Methylene Chloride
 Concen: 3.128 ppbv
 RT: 4.33 min Scan# 480
 Delta R.T. -0.00 min
 Lab File: VL037473.D
 Acq: 16 Aug 2021 22:40

Tgt Ion: 84 Resp: 211764
 Ion Ratio Lower Upper
 84 100
 49 135.5 118.2 177.2
 51 39.5 36.6 55.0
 86 61.5 51.8 77.6

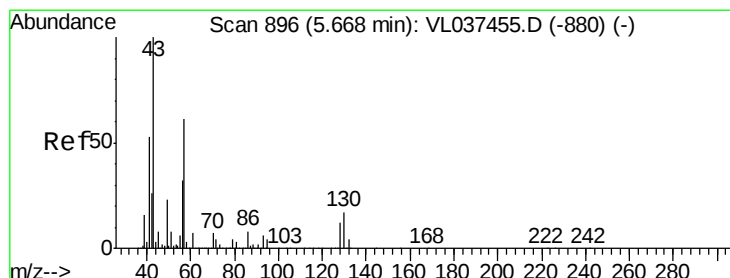
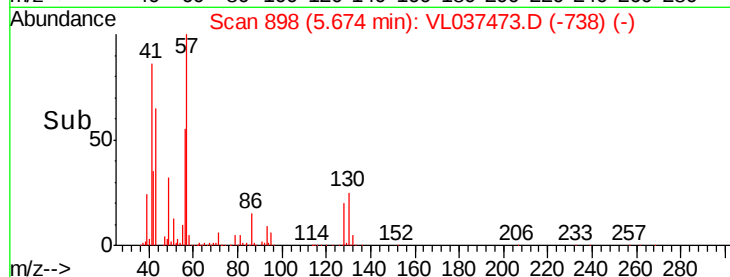
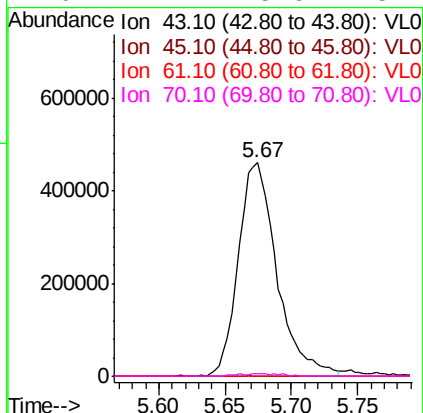
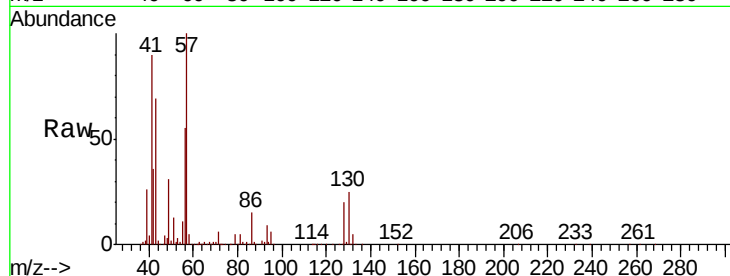




#25
Ethyl Acetate
Concen: 2.725 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.02 min
Lab File: VL037473.D
Acq: 16 Aug 2021 22:40

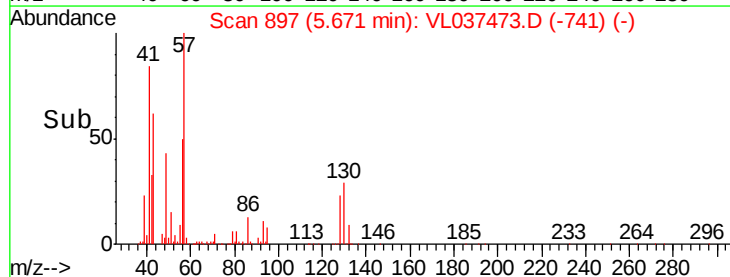
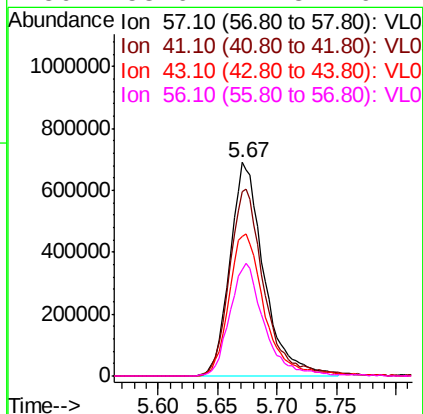
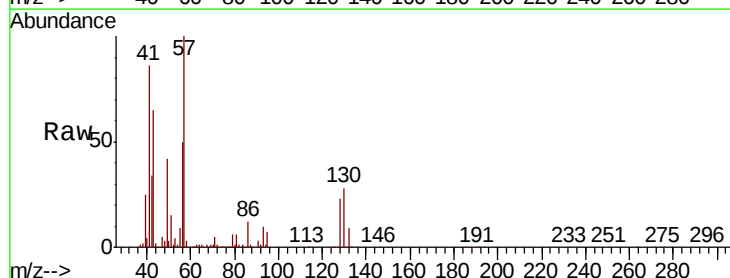
Instrument :
MSVOA_L
ClientSampleId :

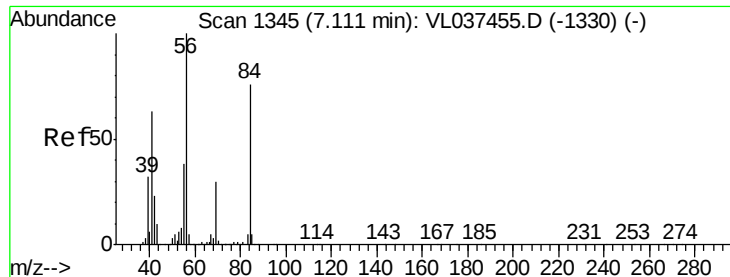
Tot Ion:	43	Resp:	935310
Ion	Ratio	Lower	Upper
43	100		
45	0.1	8.0	12.0#
61	0.1	8.0	12.0#
70	1.4	5.6	8.4#



#26
Hexane
Concen: 8.139 ppbv
RT: 5.67 min Scan# 897
Delta R.T. 0.00 min
Lab File: VL037473.D
Acq: 16 Aug 2021 22:40

Tgt Ion:	57	Resp:	1365938
Ion	Ratio	Lower	Upper
57	100		
41	90.3	72.3	108.5
43	70.1	172.3	258.5#
56	53.6	42.8	64.2

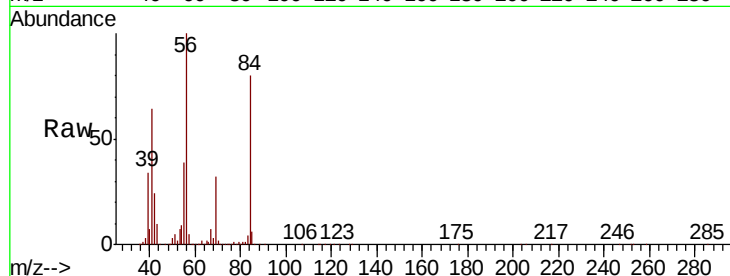




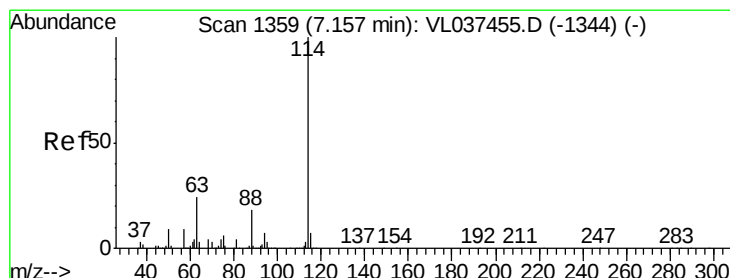
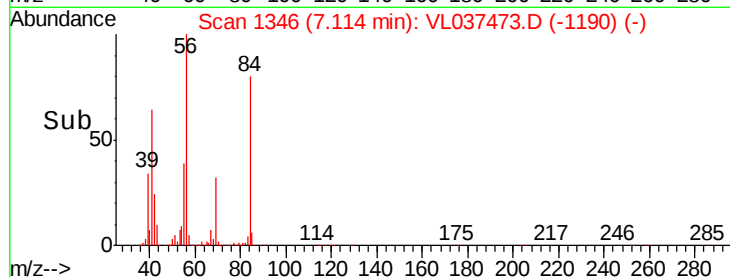
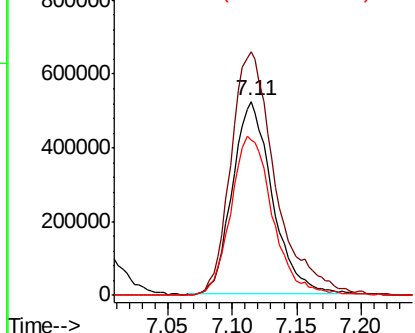
#30
Cvclohexane
Concen: 8.072 ppbv
RT: 7.11 min Scan# 1346
Delta R.T. 0.00 min
Lab File: VL037473.D
Acq: 16 Aug 2021 22:40

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 84 Resp: 1128852
Ion Ratio Lower Upper
84 100
56 141.4 110.6 165.8
41 86.5 67.0 100.6

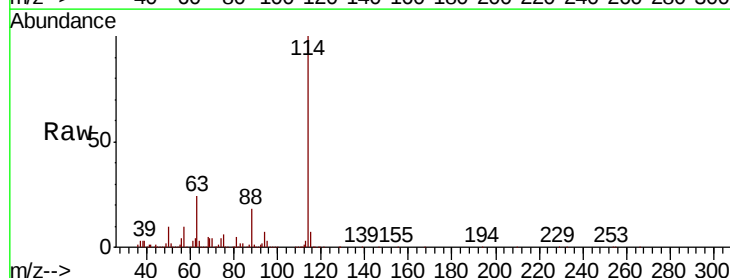


Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

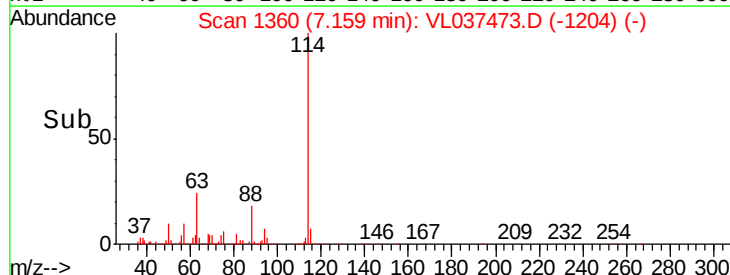
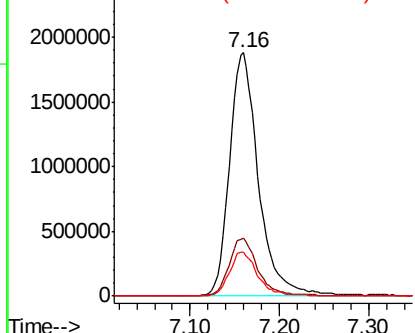


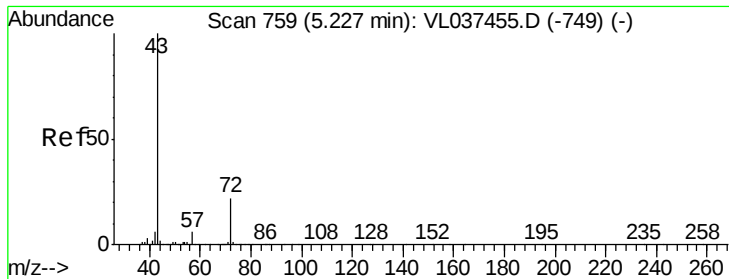
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. 0.00 min
Lab File: VL037473.D
Acq: 16 Aug 2021 22:40

Tgt Ion: 114 Resp: 4231627
Ion Ratio Lower Upper
114 100
63 24.1 19.3 28.9
88 17.9 14.2 21.4



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

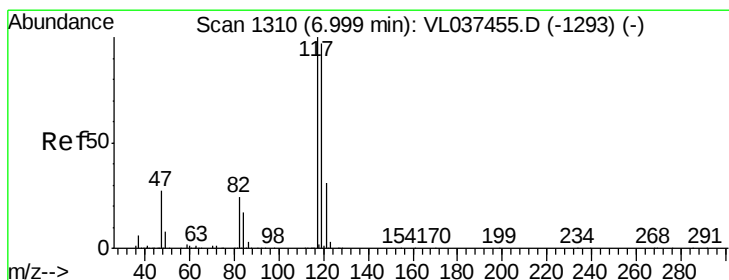
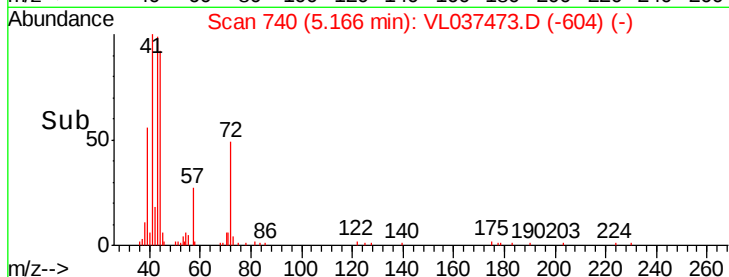
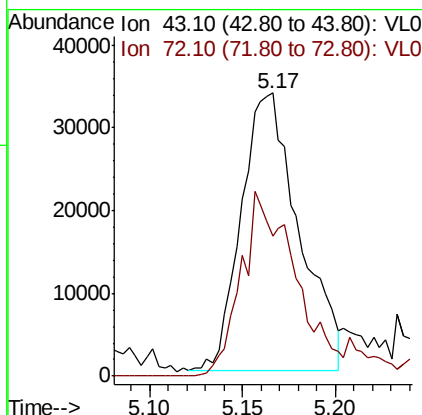
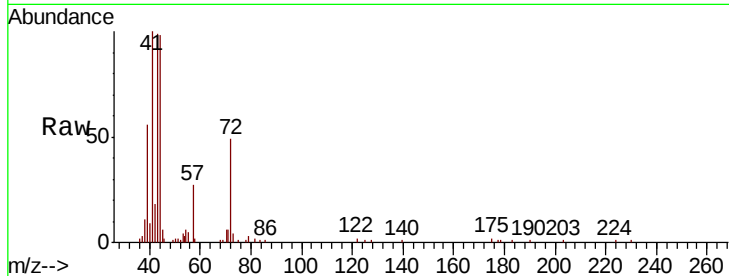




#34
2-Butanone
Concen: 0.422 ppbv
RT: 5.17 min Scan# 740
Delta R.T. -0.06 min
Lab File: VL037473.D
Acq: 16 Aug 2021 22:40

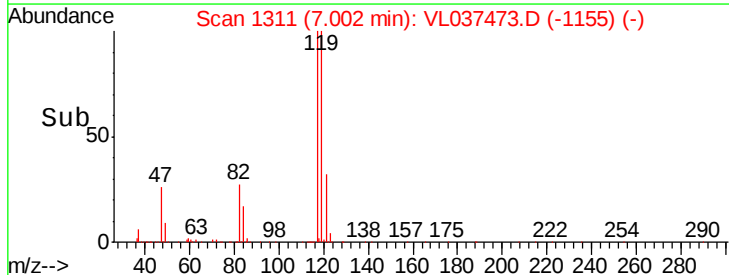
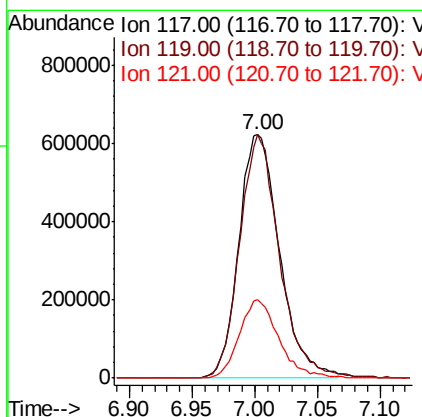
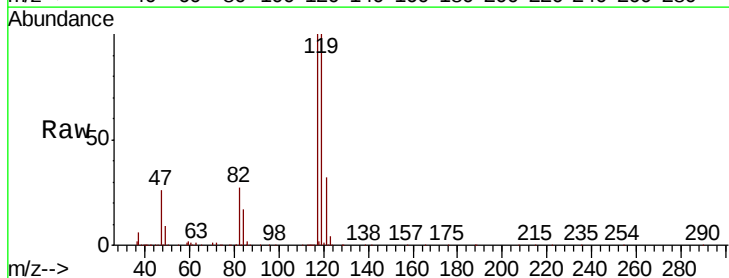
Instrument :
MSVOA_L
ClientSampleId :

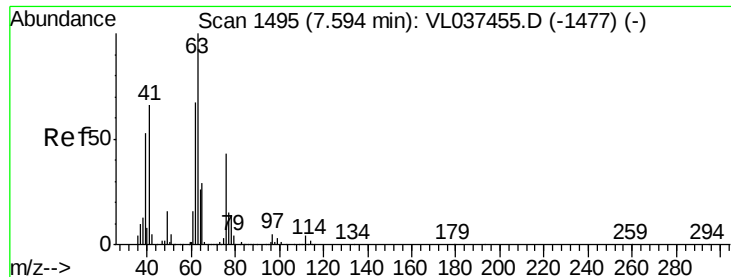
Tot Ion: 43 Resp: 72916
Ion Ratio Lower Upper
43 100
72 76.4 17.4 26.0#



#35
Carbon Tetrachloride
Concen: 5.622 ppbv
RT: 7.00 min Scan# 1311
Delta R.T. 0.00 min
Lab File: VL037473.D
Acq: 16 Aug 2021 22:40

Tgt Ion: 117 Resp: 1405872
Ion Ratio Lower Upper
117 100
119 100.1 77.3 115.9
121 32.2 25.2 37.8

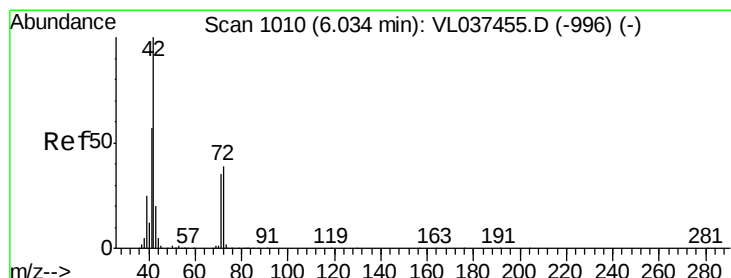
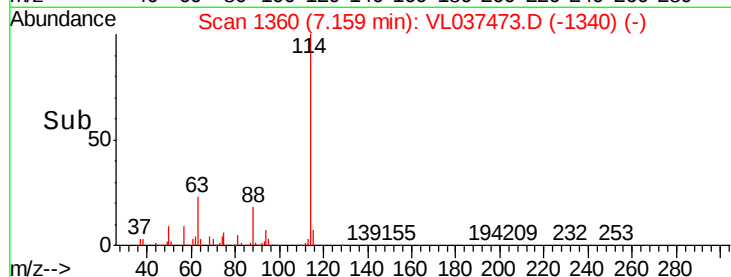
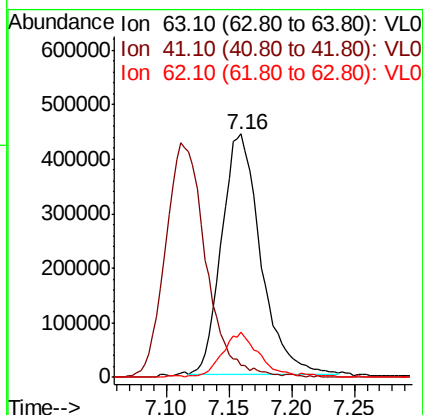
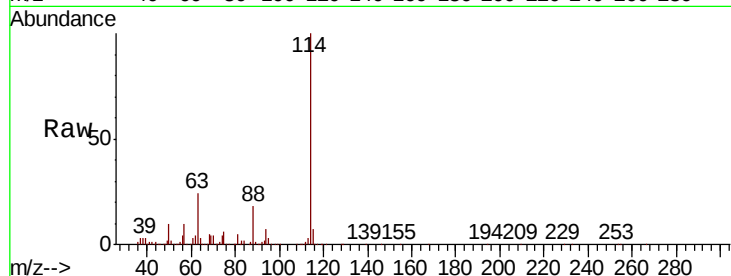




#39
 1,2-Dichloropropane
 Concen: 6.970 ppbv
 RT: 7.16 min Scan# 1360
 Delta R.T. -0.43 min
 Lab File: VL037473.D
 Acq: 16 Aug 2021 22:40

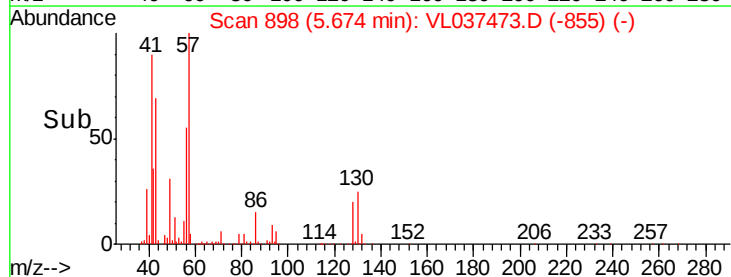
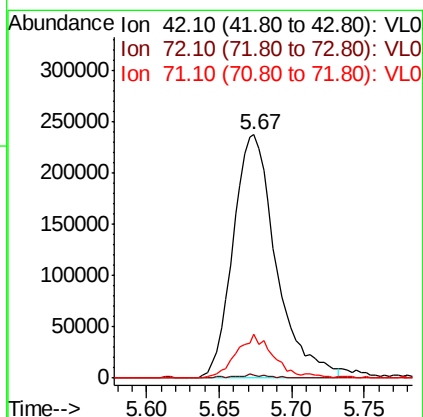
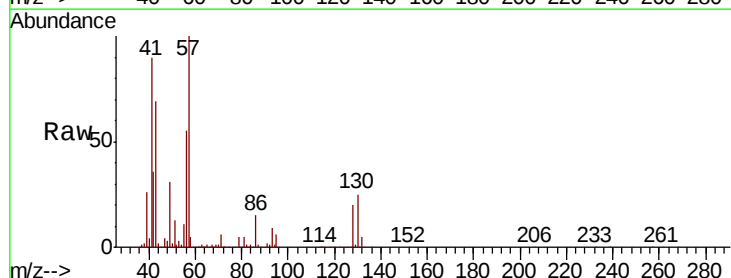
Instrument :
 MSVOA_L
 ClientSampleId :

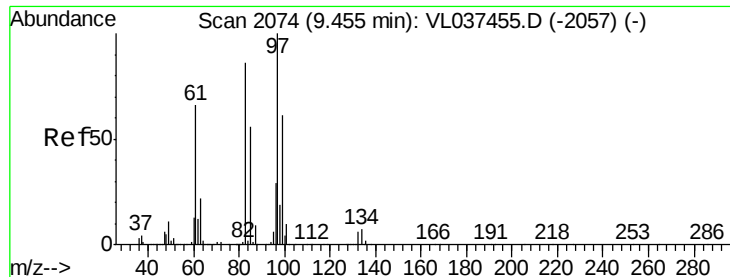
Tot Ion	Ratio	Lower	Upper
63	100		
41	4.7	52.4	78.6#
62	18.5	53.6	80.4#



#41
 Tetrahydrofuran
 Concen: 5.900 ppbv
 RT: 5.67 min Scan# 898
 Delta R.T. -0.36 min
 Lab File: VL037473.D
 Acq: 16 Aug 2021 22:40

Tgt Ion	Ratio	Lower	Upper
42	100		
72	1.2	32.2	48.4#
71	16.4	30.5	45.7#

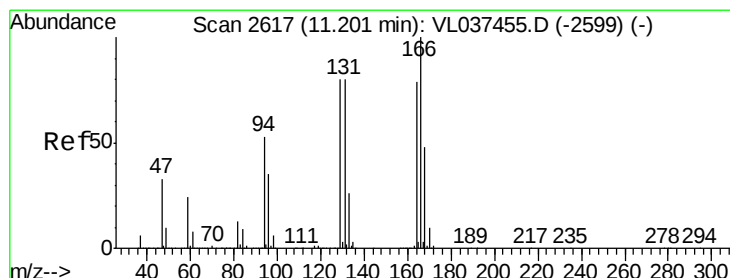
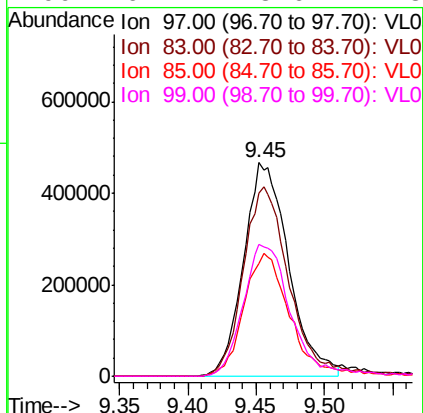
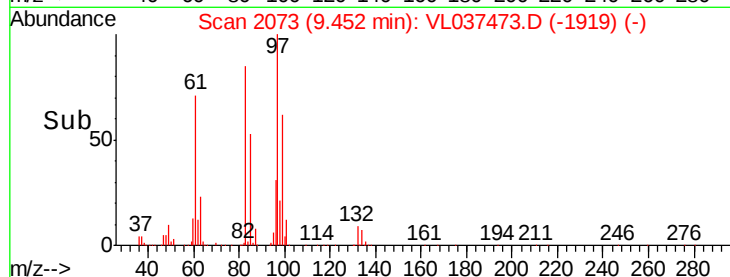
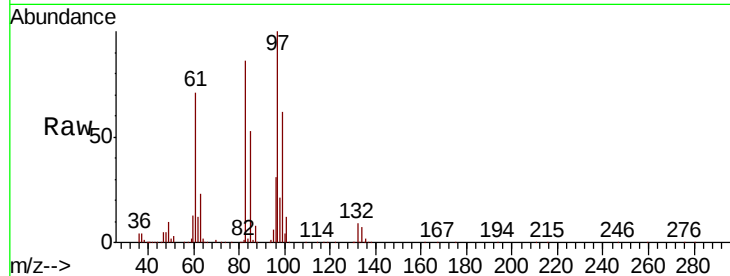




#47
 1,1,2-Trichloroethane
 Concen: 7.248 ppbv
 RT: 9.45 min Scan# 2073
 Delta R.T. -0.00 min
 Lab File: VL037473.D
 Acq: 16 Aug 2021 22:40

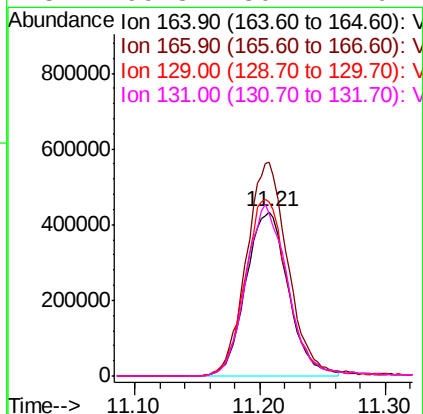
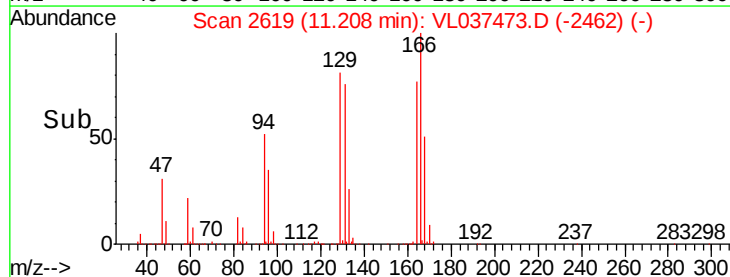
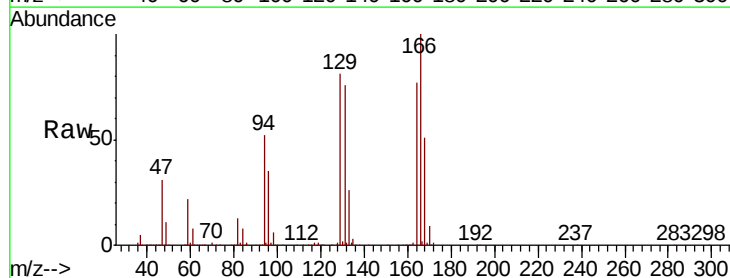
Instrument :
 MSVOA_L
 ClientSampleId :

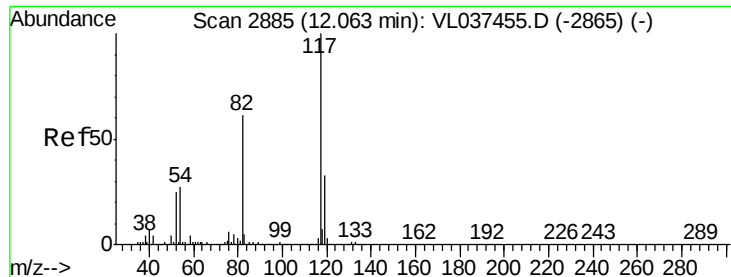
Tot Ion: 97 Resp: 1070545
 Ion Ratio Lower Upper
 97 100
 83 85.5 68.7 103.1
 85 53.0 44.7 67.1
 99 61.7 48.6 72.8



#52
 Tetrachloroethene
 Concen: 6.965 ppbv
 RT: 11.21 min Scan# 2619
 Delta R.T. 0.01 min
 Lab File: VL037473.D
 Acq: 16 Aug 2021 22:40

Tgt Ion: 164 Resp: 1015257
 Ion Ratio Lower Upper
 164 100
 166 130.3 100.7 151.1
 129 106.1 80.9 121.3
 131 99.3 80.2 120.4

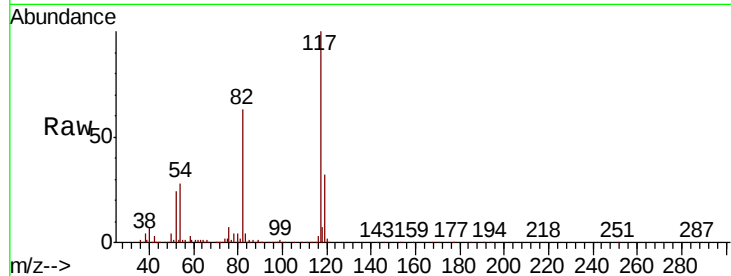




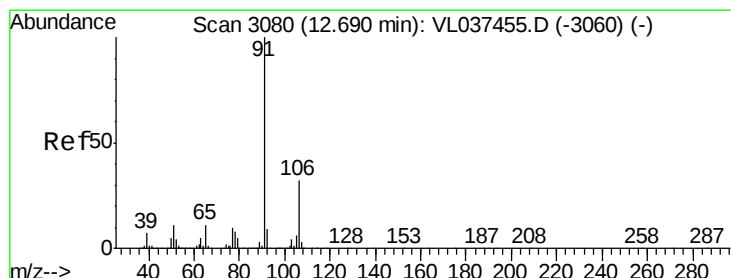
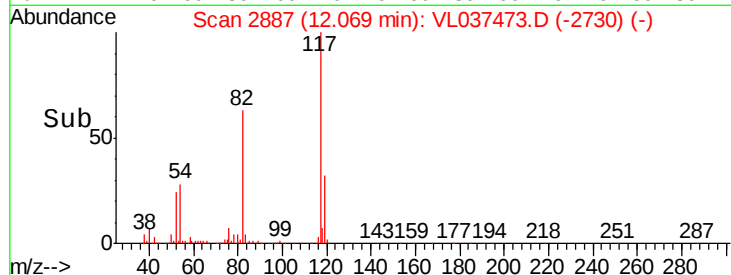
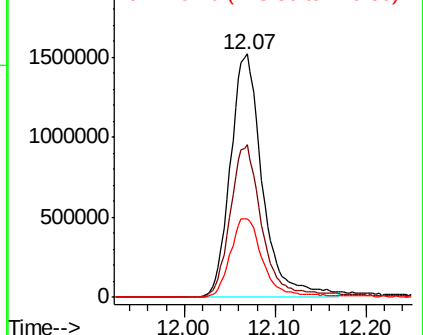
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2887
Delta R.T. 0.01 min
Lab File: VL037473.D
Acq: 16 Aug 2021 22:40

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 3744164
Ion Ratio Lower Upper
117 100
82 65.0 52.9 79.3
119 33.9 24.8 37.2

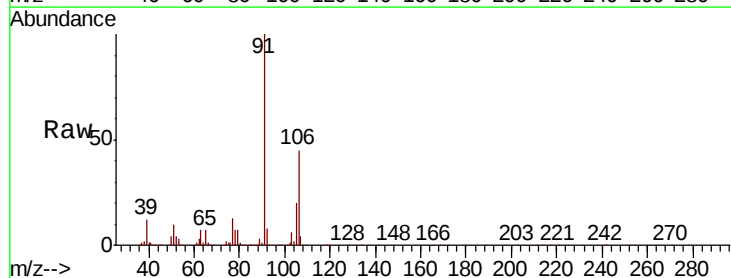


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

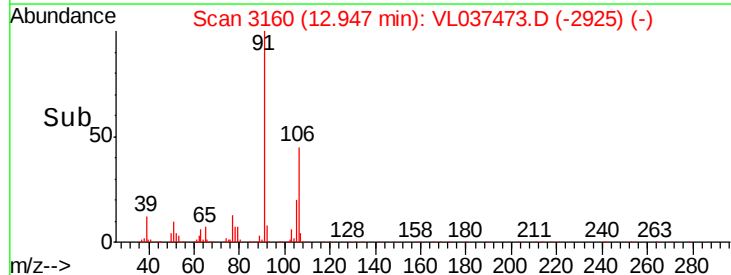
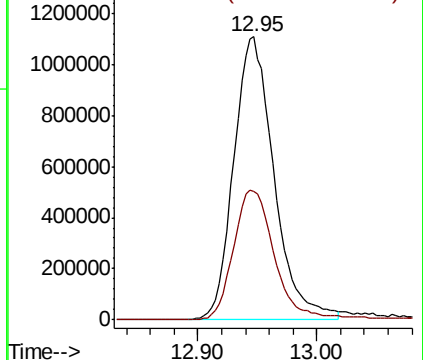


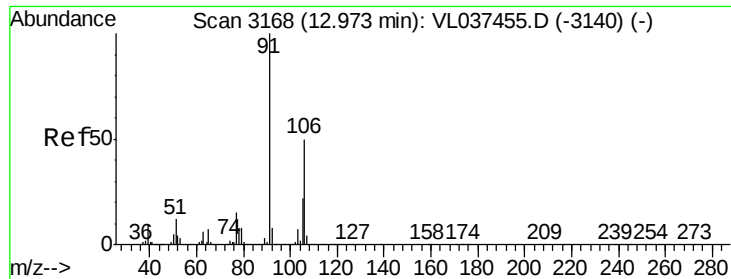
#58
Ethyl Benzene
Concen: 4.979 ppbv
RT: 12.95 min Scan# 3160
Delta R.T. 0.26 min
Lab File: VL037473.D
Acq: 16 Aug 2021 22:40

Tgt Ion: 91 Resp: 2587277
Ion Ratio Lower Upper
91 100
106 45.2 25.7 38.5#



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V

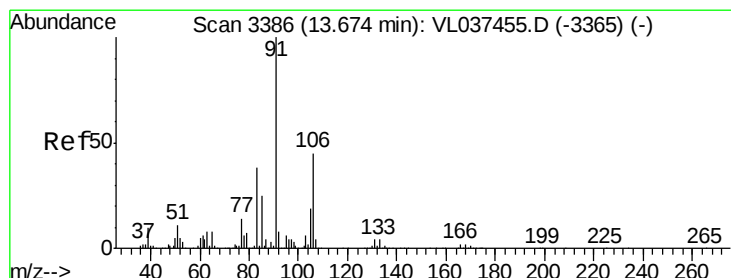
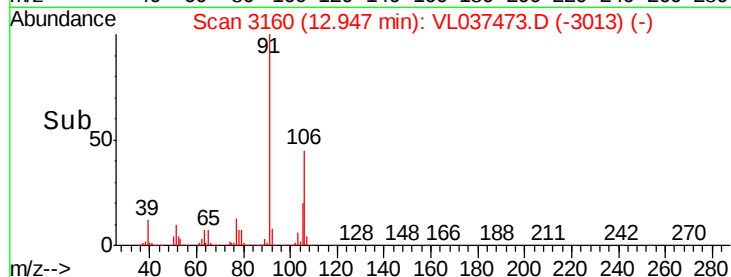
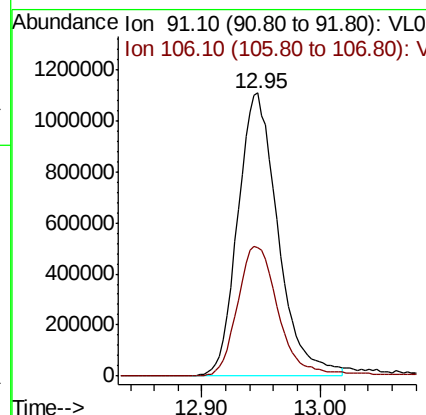
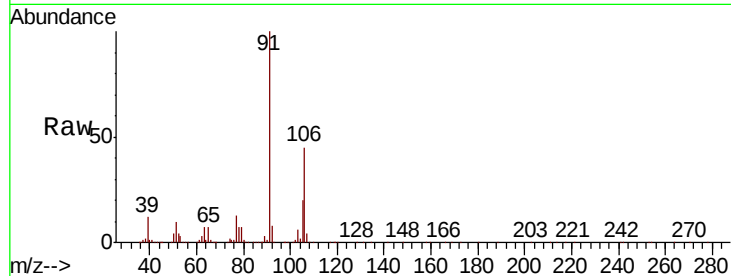




#59
m/p-Xylene
Concen: 5.744 ppbv
RT: 12.95 min Scan# 3160
Delta R.T. -0.03 min
Lab File: VL037473.D
Acq: 16 Aug 2021 22:40

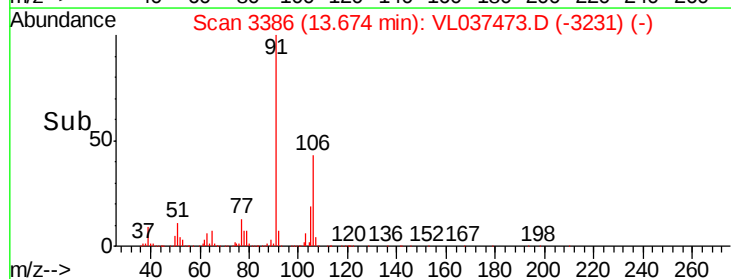
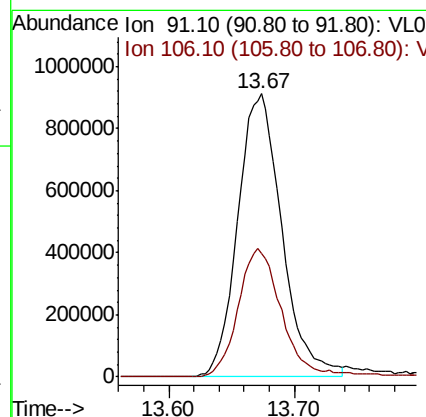
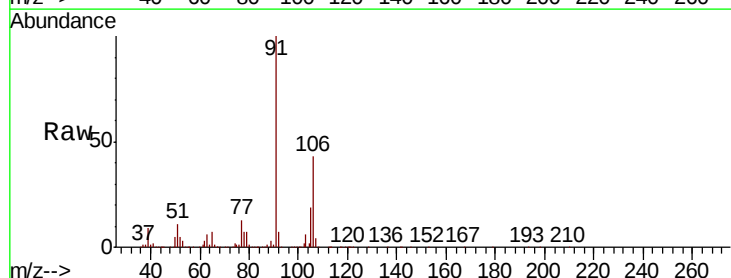
Instrument :
MSVOA_L
ClientSampleId :

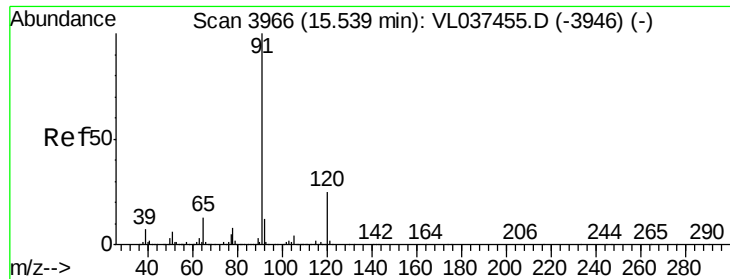
Tot Ion: 91 Resp: 2587277
Ion Ratio Lower Upper
91 100
106 48.2 36.9 55.3



#60
o-Xylene
Concen: 5.269 ppbv
RT: 13.67 min Scan# 3386
Delta R.T. -0.00 min
Lab File: VL037473.D
Acq: 16 Aug 2021 22:40

Tgt Ion: 91 Resp: 2215379
Ion Ratio Lower Upper
91 100
106 45.9 23.7 71.1

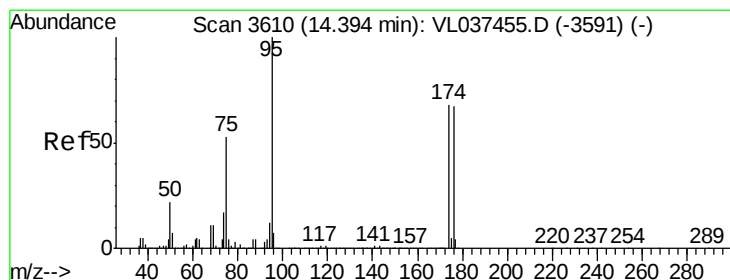
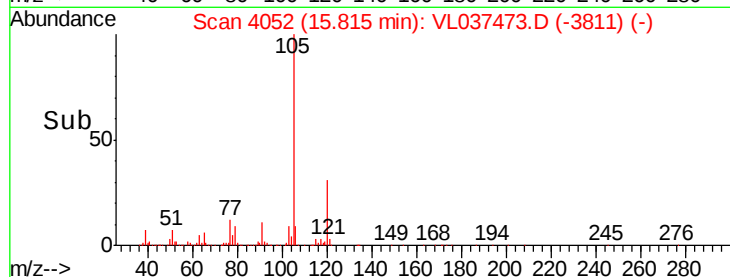
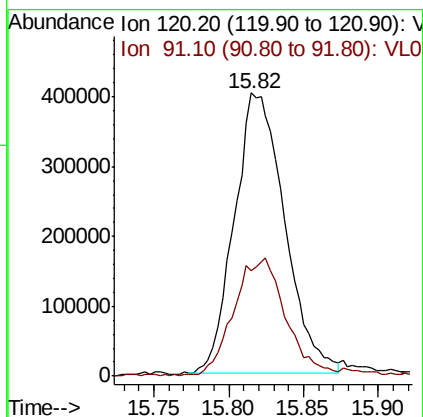
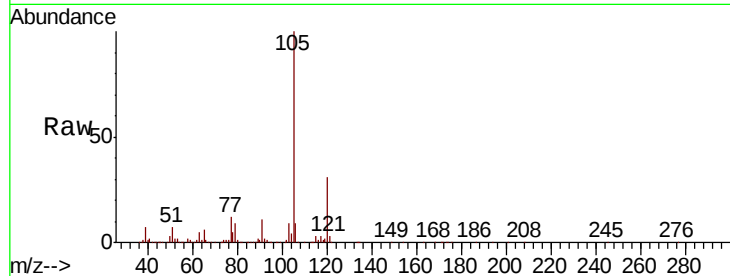




#64
n-propylbenzene
Concen: 6.238 ppbv
RT: 15.82 min Scan# 4052
Delta R.T. 0.28 min
Lab File: VL037473.D
Acq: 16 Aug 2021 22:40

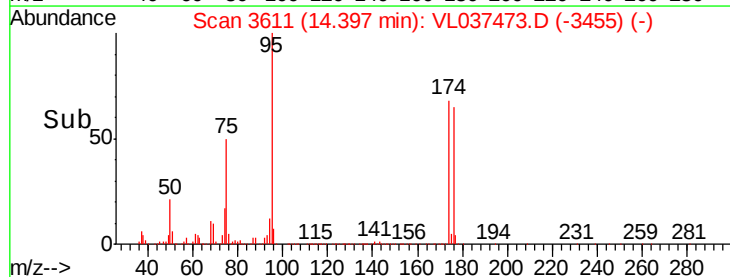
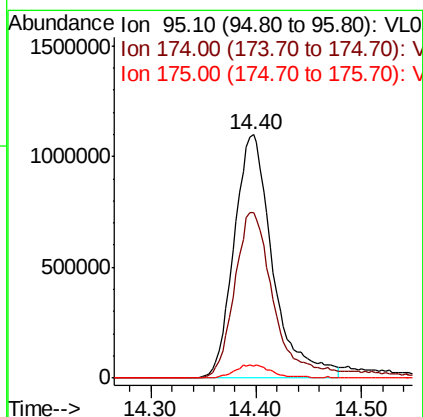
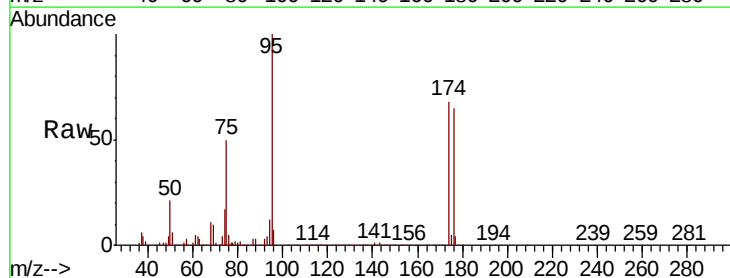
Instrument :
MSVOA_L
ClientSampled :

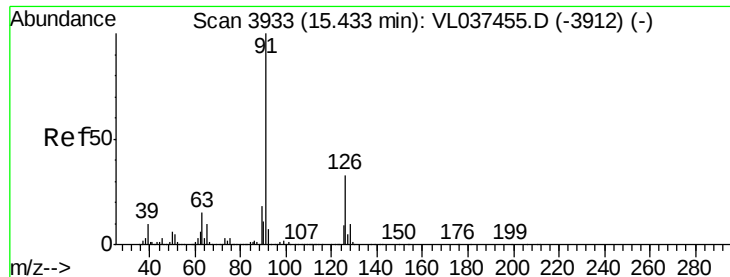
Tot Ion:120 Resp: 941960
Ion Ratio Lower Upper
120 100
91 44.7 373.8 560.6#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.564 ppbv
RT: 14.40 min Scan# 3611
Delta R.T. 0.00 min
Lab File: VL037473.D
Acq: 16 Aug 2021 22:40

Tgt Ion: 95 Resp: 2810084
Ion Ratio Lower Upper
95 100
174 69.5 59.6 89.4
175 5.4 4.6 7.0

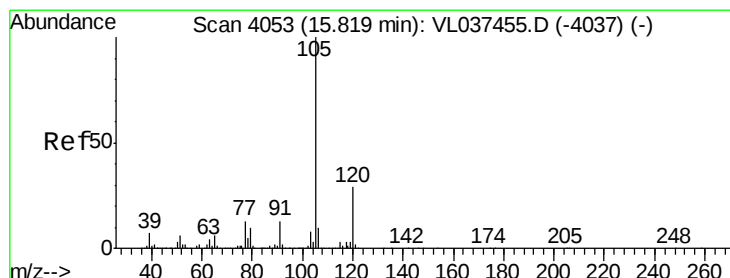
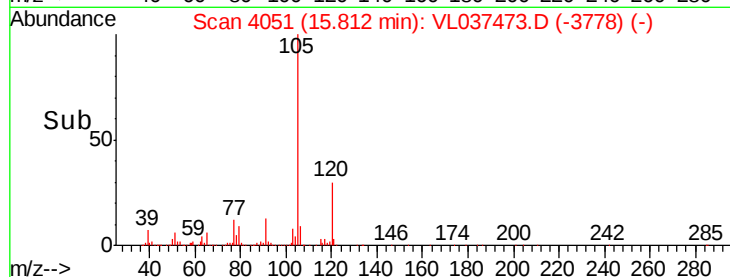
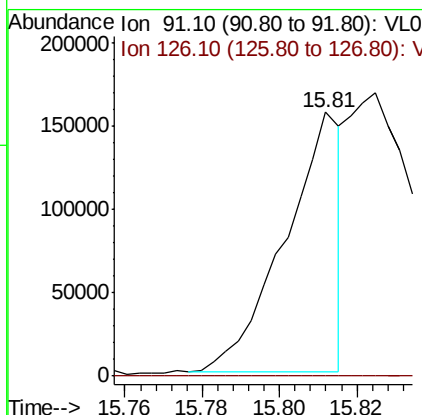
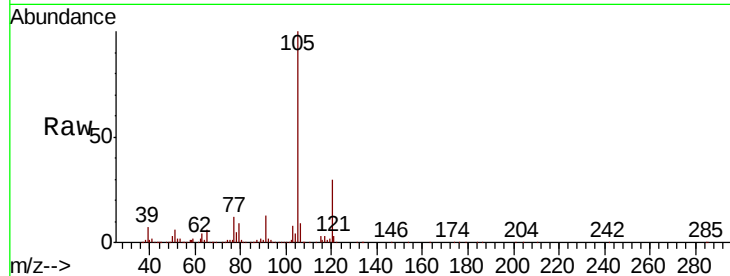




#71
2-Chlorotoluene
Concen: 0.356 ppbv
RT: 15.81 min Scan# 4051
Delta R.T. 0.38 min
Lab File: VL037473.D
Acq: 16 Aug 2021 22:40

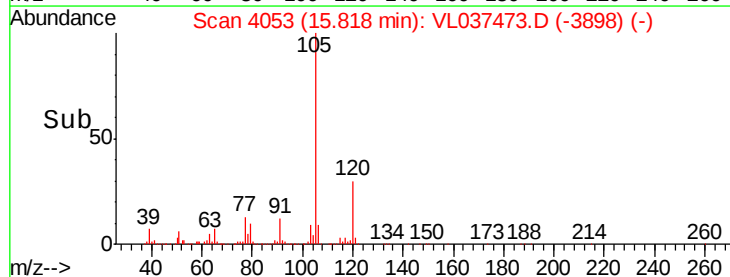
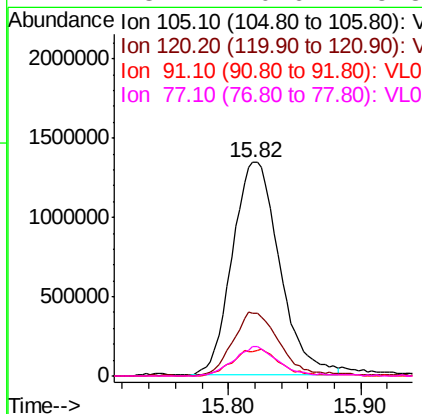
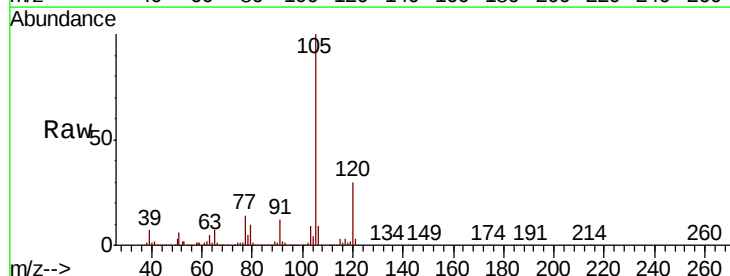
Instrument :
MSVOA_L
ClientSampleId :

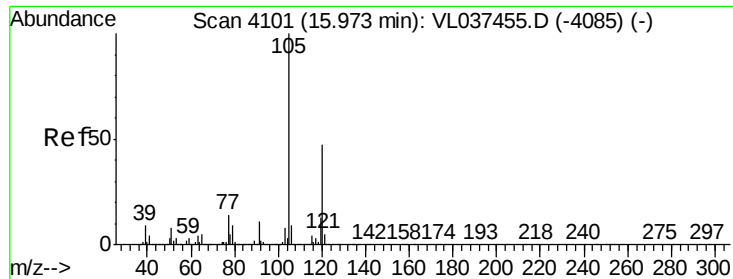
Tot Ion: 91 Resp: 155075
Ion Ratio Lower Upper
91 100
126 0.1 13.6 54.4#



#72
4-Ethyltoluene
Concen: 6.638 ppbv
RT: 15.82 min Scan# 4053
Delta R.T. -0.00 min
Lab File: VL037473.D
Acq: 16 Aug 2021 22:40

Tgt Ion:105 Resp: 3319358
Ion Ratio Lower Upper
105 100
120 30.3 24.7 37.1
91 12.7 9.8 14.8
77 13.7 10.6 15.8





#73

1,3,5-Trimethylbenzene

Concen: 7.131 ppbv

RT: 15.82 min Scan# 4053

Delta R.T. -0.15 min

Lab File: VL037473.D

Acq: 16 Aug 2021 22:40

Instrument :

MSVOA_L

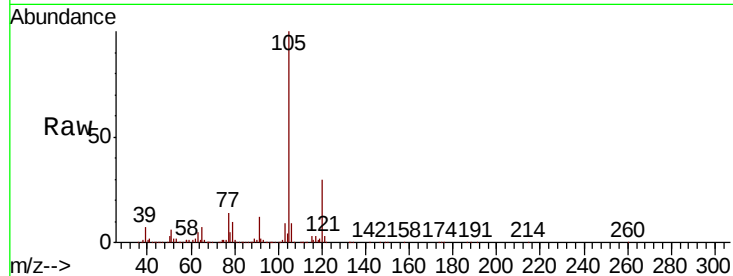
ClientSampleId :

Tot Ion:105 Resp: 3319358

Ion Ratio Lower Upper

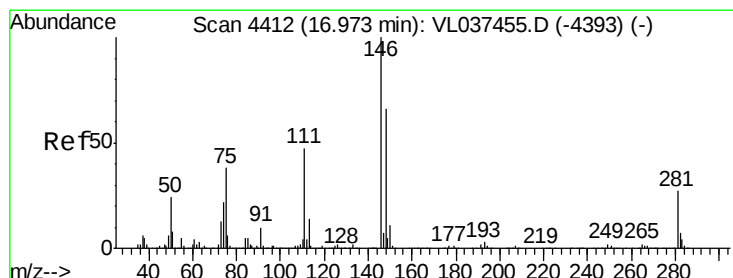
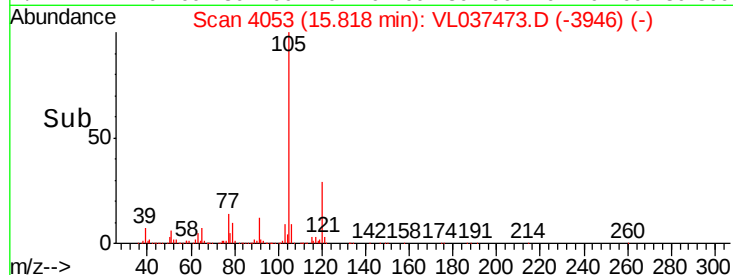
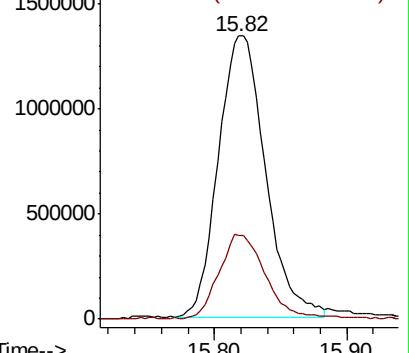
105 100

120 29.3 37.6 56.4#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#75

1,3-Dichlorobenzene

Concen: 4.570 ppbv

RT: 16.98 min Scan# 4413

Delta R.T. 0.00 min

Lab File: VL037473.D

Acq: 16 Aug 2021 22:40

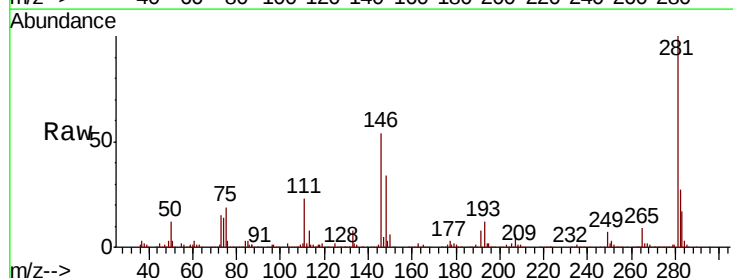
Tgt Ion:146 Resp: 1360671

Ion Ratio Lower Upper

146 100

111 48.7 23.4 70.0

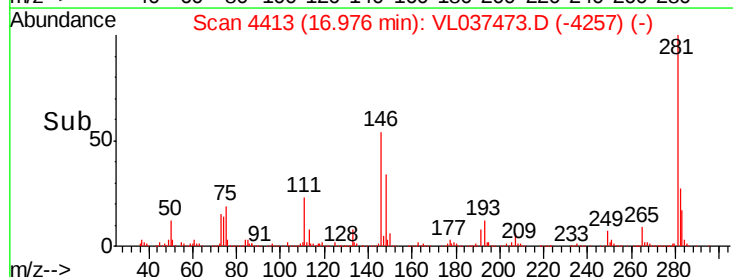
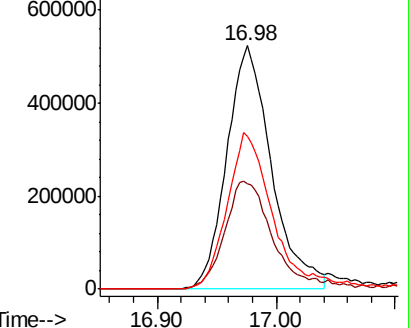
148 66.3 33.1 99.5

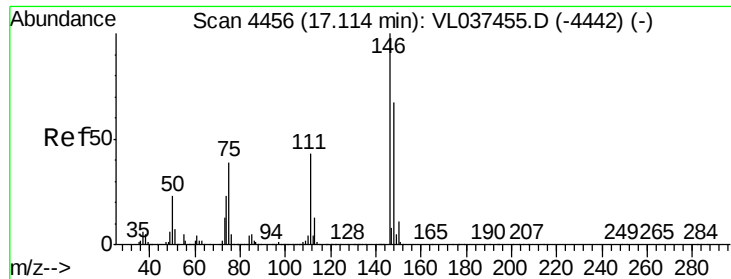


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#76

1,4-Dichlorobenzene

Concen: 0.079 ppbv

RT: 17.12 min Scan# 4457

Delta R.T. 0.00 min

Lab File: VL037473.D

Acq: 16 Aug 2021 22:40

Instrument :

MSVOA_L

ClientSampleId :

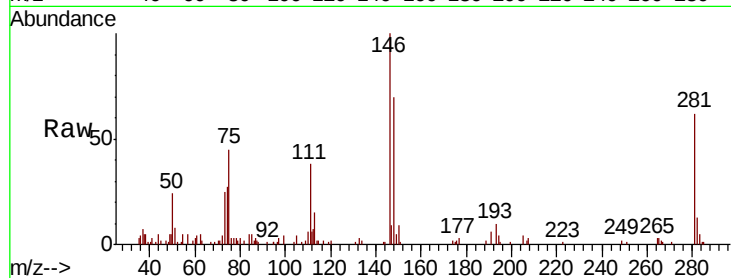
Tot Ion:146 Resp: 23665

Ion Ratio Lower Upper

146 100

111 141.3 22.1 66.5#

148 172.5 32.4 97.0#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

