

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073021\
 Data File : VL07309.D
 Acq On : 31 Jul 2021 8:38
 Operator : SY/AP
 Sample : M3121-06
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 31 09:08:04 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 30 23:19:30 2021
 QLast Update : Fri Jul 30 23:19:30 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1188694	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.17	114	3626525	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.08	117	3178886	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2374125	10.27	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.70%

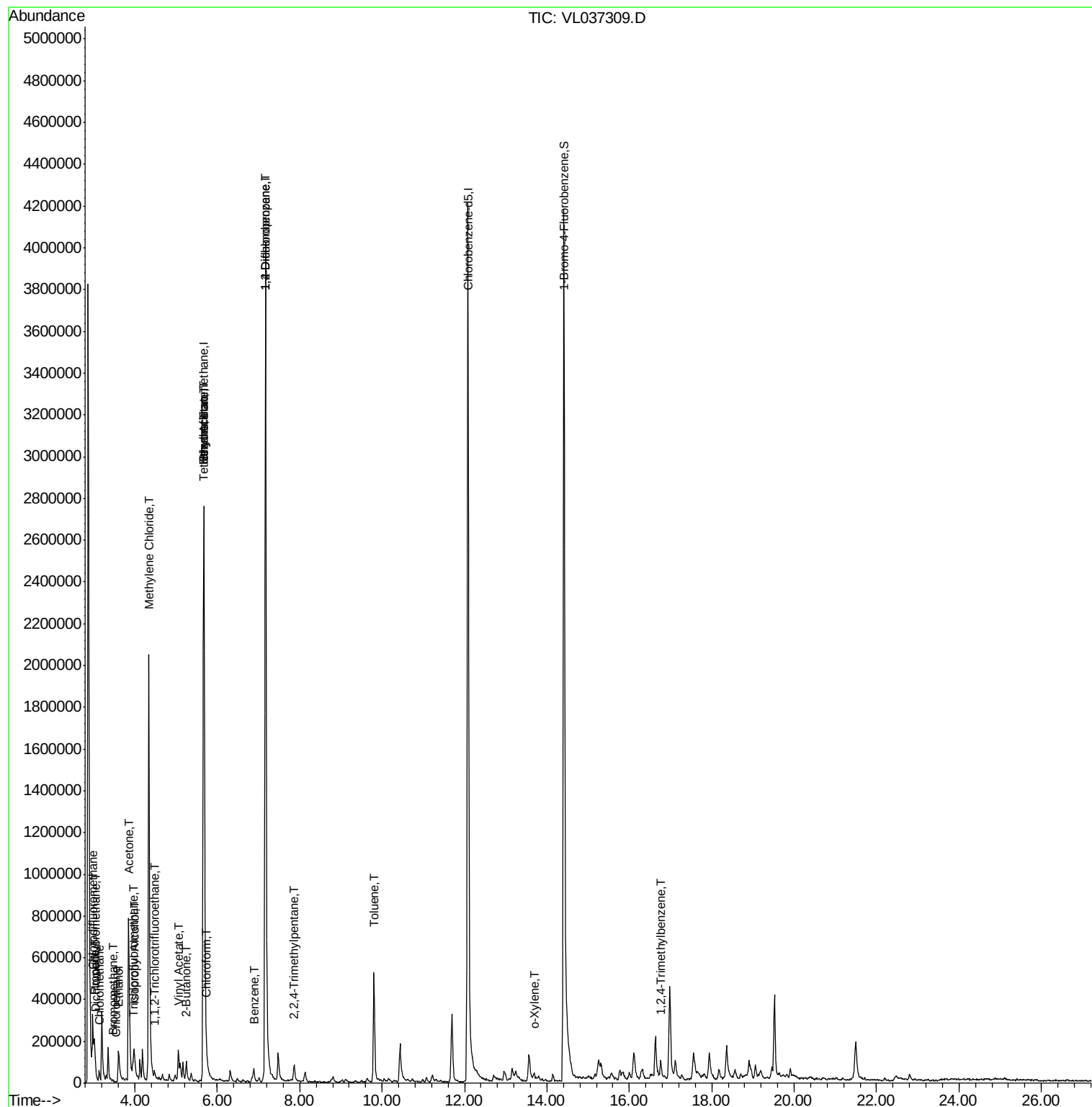
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	57831	0.338	ppbv	95
3) Chlorodifluoromethane	2.98	51	427433	1.794	ppbv	92
4) Chloromethane	3.13	50	49510	0.596	ppbv #	82
6) Bromomethane	3.47	94	1578	0.031	ppbv #	47
7) Chloroethane	3.55	64	1149	0.036	ppbv #	89
9) Propene	3.02	41	41041	0.512	ppbv	97
11) Trichlorofluoromethane	3.95	101	45567	0.214	ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.48	101	10021	0.063	ppbv #	82
13) Ethanol	3.60	45	231122	13.124	ppbv	97
15) Acetone	3.84	43	1036538	4.841	ppbv	100
19) Isopropyl Alcohol	3.98	45	170151	2.054	ppbv #	75
20) Methylene Chloride	4.34	84	945407	11.411	ppbv	99
23) Vinyl Acetate	5.06	43	138156	0.765	ppbv #	84
25) Ethyl Acetate	5.68	43	499888	1.609	ppbv #	80
26) Hexane	5.68	57	701329	4.224	ppbv #	52
29) Chloroform	5.74	83	14454	0.061	ppbv	86
34) 2-Butanone	5.25	43	72154	0.464	ppbv #	46
36) Benzene	6.89	78	47647	0.155	ppbv #	92
39) 1,2-Dichloropropane	7.17	63	822017	7.119	ppbv #	26
41) Tetrahydrofuran	5.68	42	258334	4.132	ppbv #	48
44) 2,2,4-Trimethylpentane	7.87	57	50120	0.100	ppbv #	43
53) Toluene	9.81	91	440339	1.220	ppbv	96
60) o-Xylene	13.69	91	20830	0.058	ppbv	86
74) 1,2,4-Trimethylbenzene	16.76	105	44371	0.102	ppbv #	71

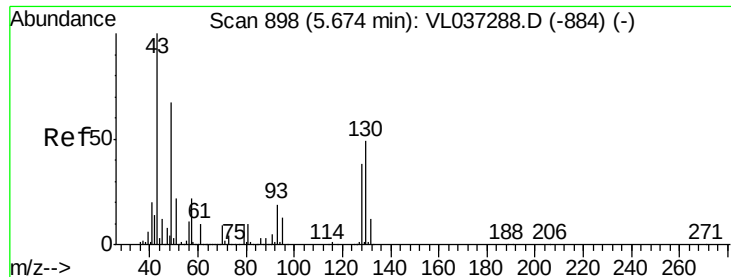
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 31 09:08:04 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073021AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 30 23:19:30 2021
QLast Update : Fri Jul 30 23:19:30 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.01 min

Lab File: VL037309.D

Acq: 31 Jul 2021 8:38

Instrument :

MSVOA_L

ClientSampleId :

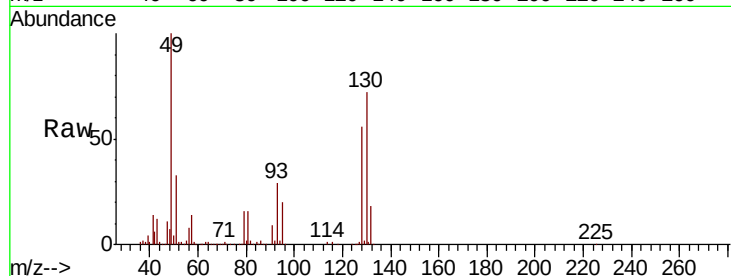
Tot Ion: 49 Resp: 1188694

Ion Ratio Lower Upper

49 100

128 58.4 30.6 92.0

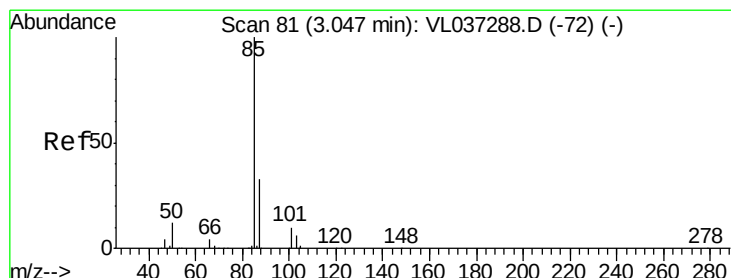
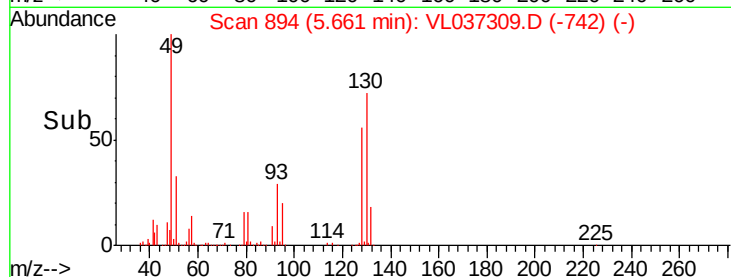
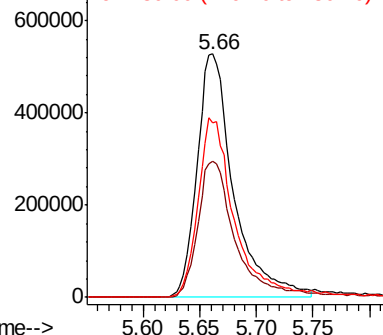
130 75.2 37.8 113.4



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



#2

Dichlorodifluoromethane

Concen: 0.338 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL037309.D

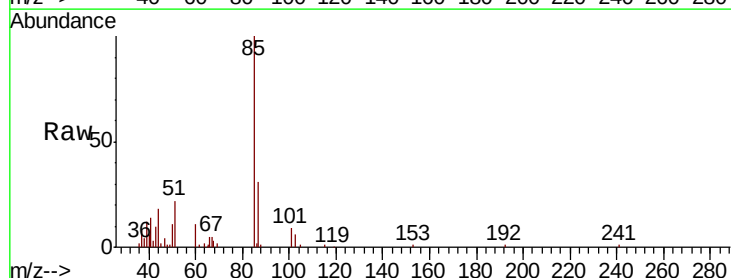
Acq: 31 Jul 2021 8:38

Tgt Ion: 85 Resp: 57831

Ion Ratio Lower Upper

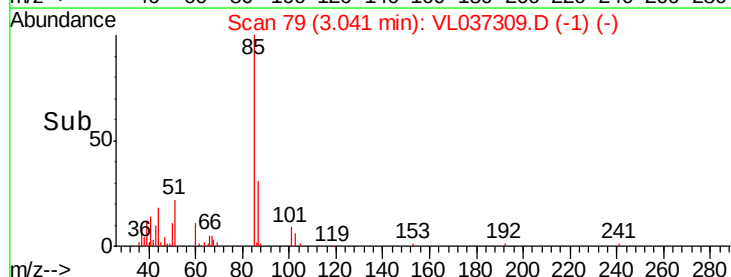
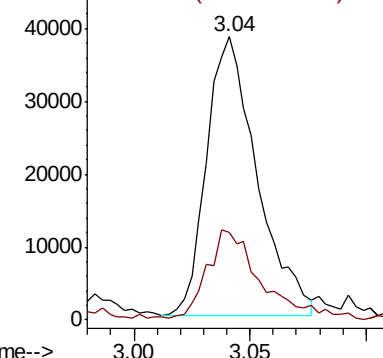
85 100

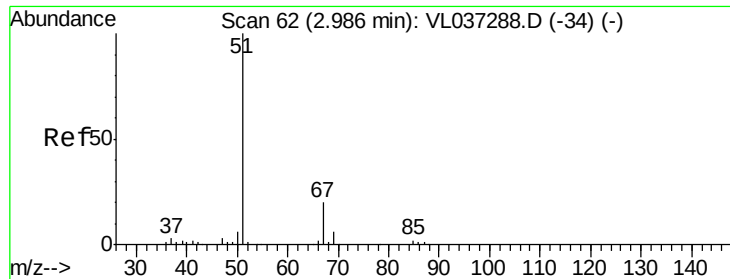
87 30.5 26.6 40.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.794 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.01 min

Lab File: VL037309.D

Acq: 31 Jul 2021 8:38

Instrument :

MSVOA_L

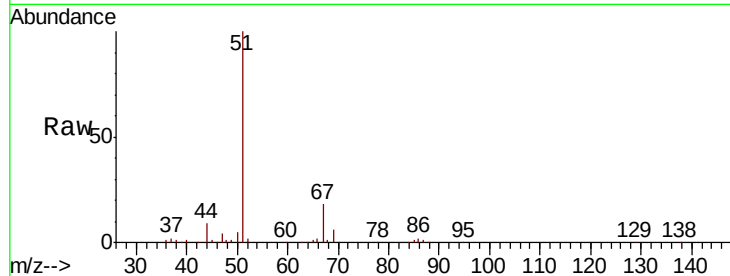
ClientSampleId :

Tot Ion: 51 Resp: 427433

Ion Ratio Lower Upper

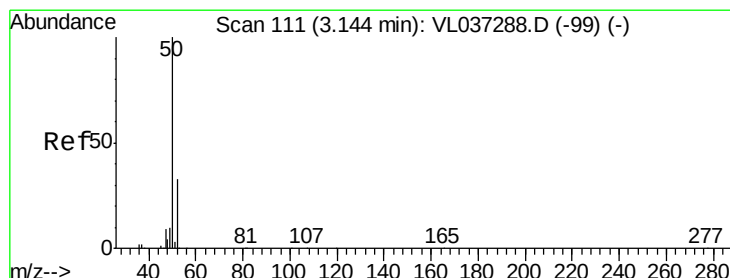
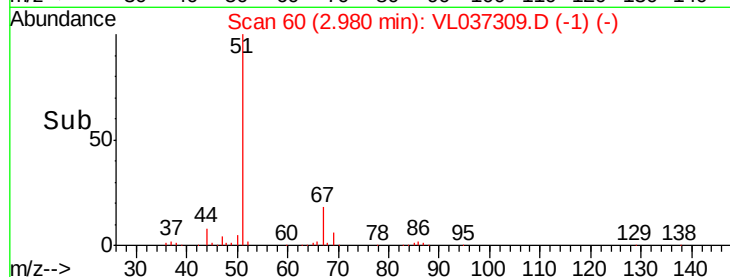
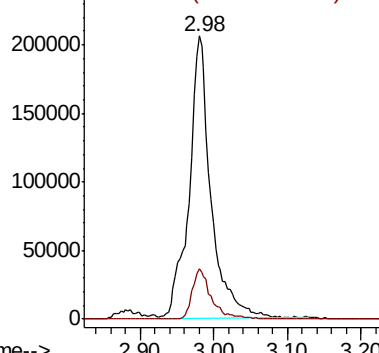
51 100

67 15.6 15.2 22.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.596 ppbv

RT: 3.13 min Scan# 107

Delta R.T. -0.01 min

Lab File: VL037309.D

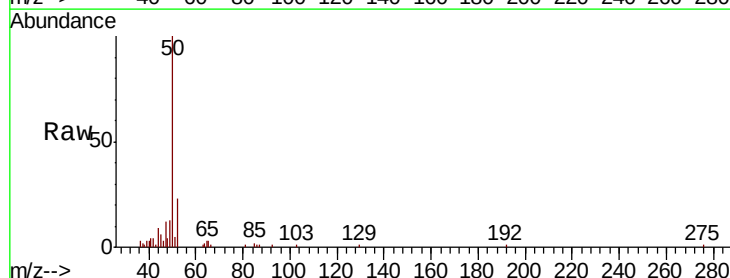
Acq: 31 Jul 2021 8:38

Tgt Ion: 50 Resp: 49510

Ion Ratio Lower Upper

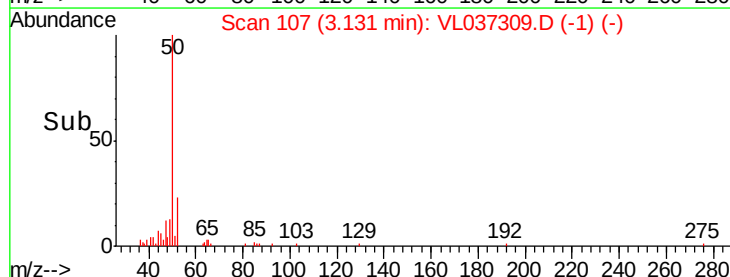
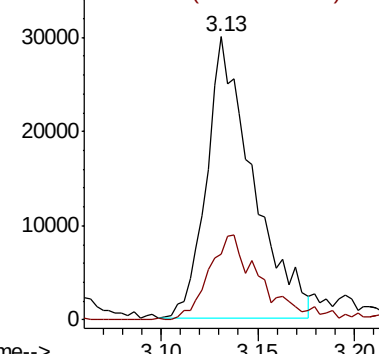
50 100

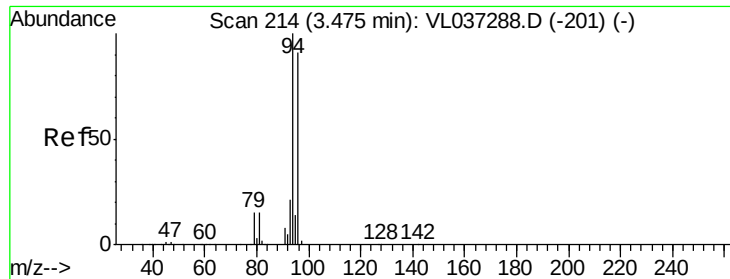
52 22.7 26.2 39.4#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

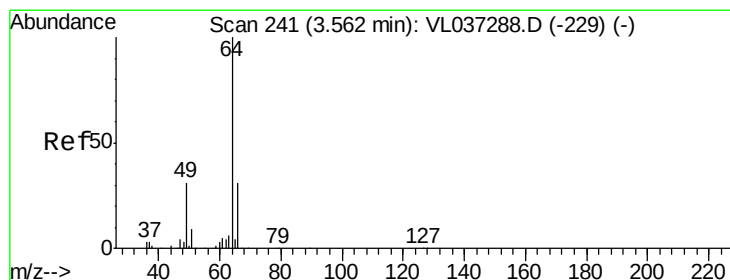
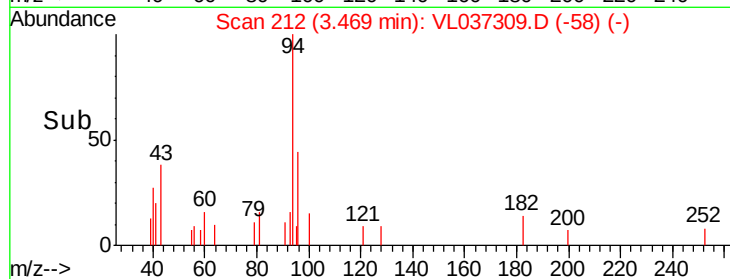
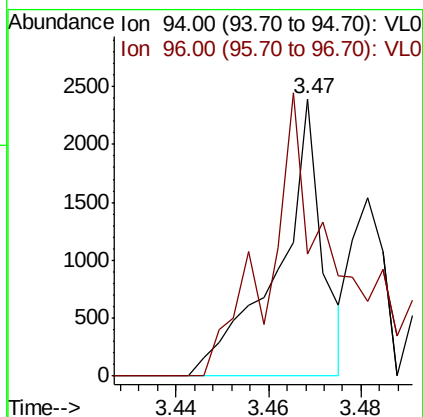
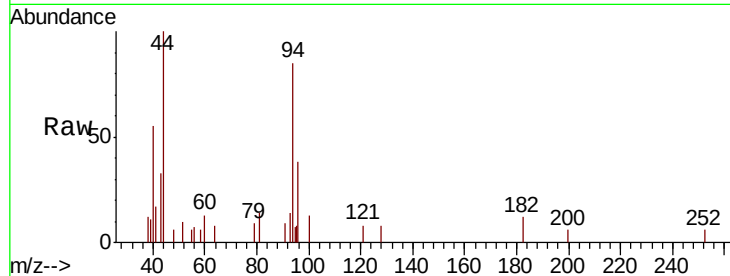




#6
Bromomethane
Concen: 0.031 ppbv
RT: 3.47 min Scan# 212
Delta R.T. -0.01 min
Lab File: VL037309.D
Acq: 31 Jul 2021 8:38

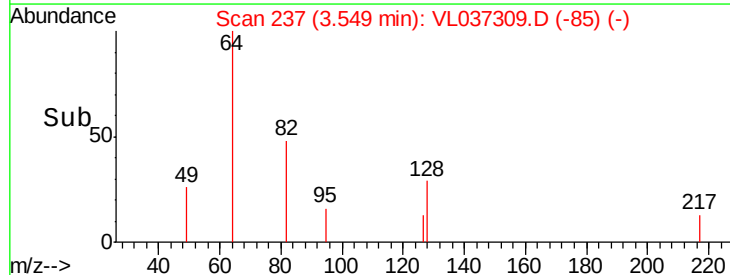
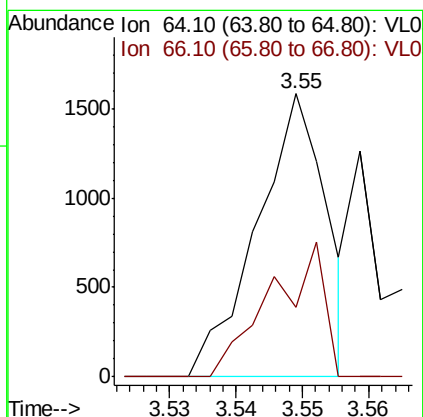
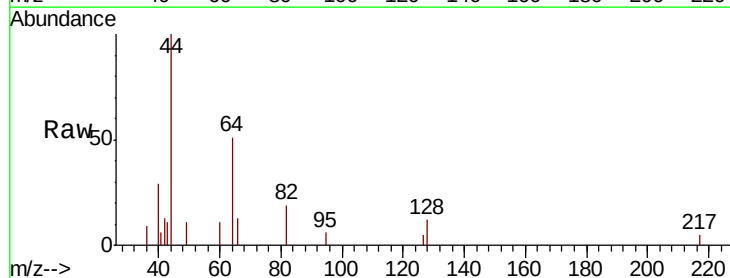
Instrument :
MSVOA_L
ClientSampleId :

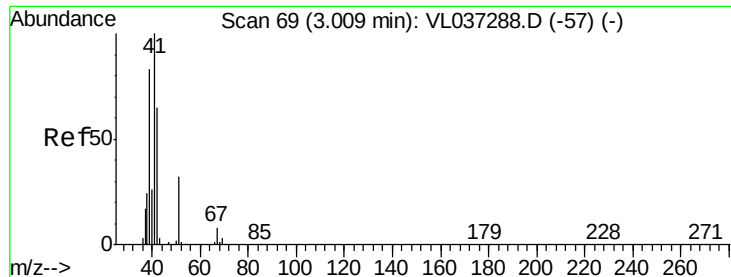
Tot Ion: 94 Resp: 1578
Ion Ratio Lower Upper
94 100
96 40.9 72.7 109.1#



#7
Chloroethane
Concen: 0.036 ppbv
RT: 3.55 min Scan# 237
Delta R.T. -0.01 min
Lab File: VL037309.D
Acq: 31 Jul 2021 8:38

Tgt Ion: 64 Resp: 1149
Ion Ratio Lower Upper
64 100
66 24.8 24.9 37.3#





#9

Propene

Concen: 0.512 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL037309.D

Acq: 31 Jul 2021 8:38

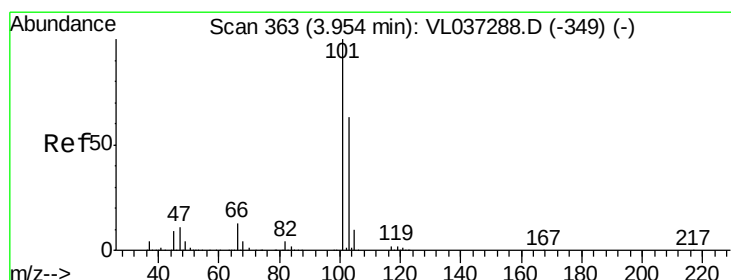
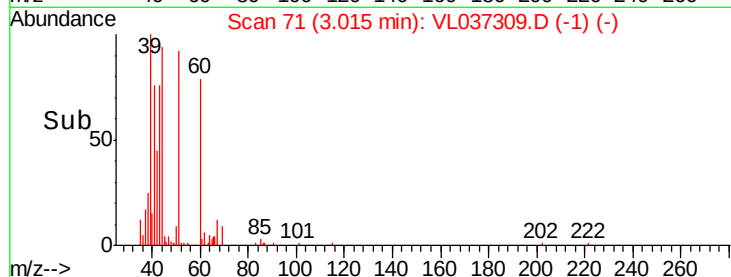
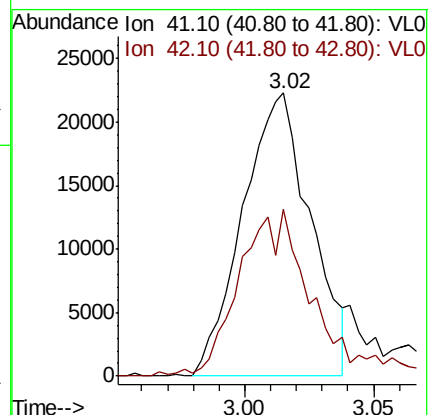
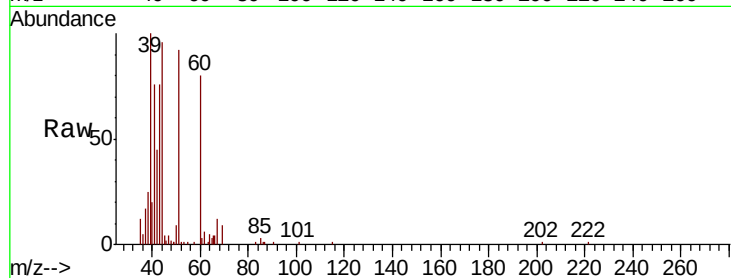
Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 41 Resp: 41041

Ion Ratio Lower Upper

41 100

42 65.2 54.0 81.0



#11

Trichlorofluoromethane

Concen: 0.214 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.01 min

Lab File: VL037309.D

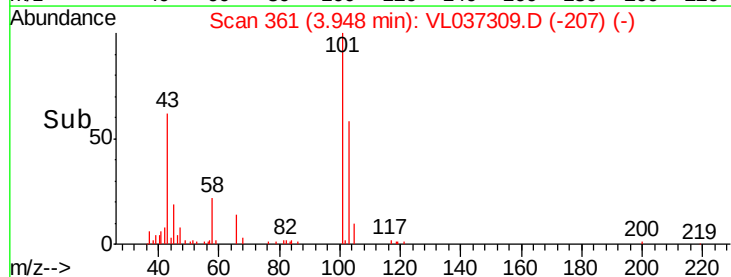
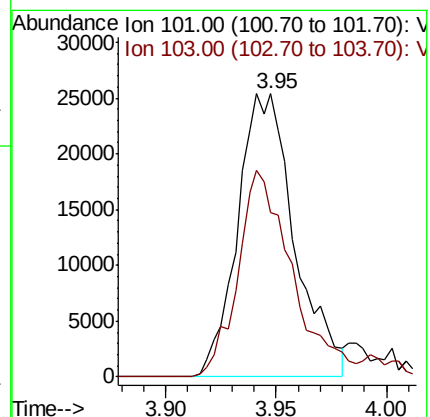
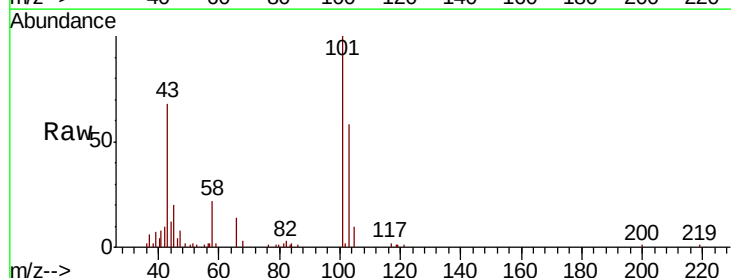
Acq: 31 Jul 2021 8:38

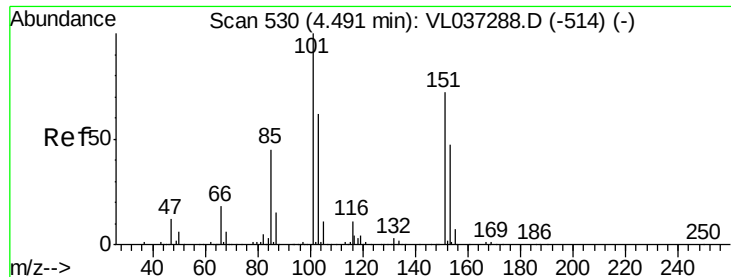
Tgt Ion: 101 Resp: 45567

Ion Ratio Lower Upper

101 100

103 58.0 50.6 75.8





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.063 ppbv

RT: 4.48 min Scan# 527

Delta R.T. -0.01 min

Lab File: VL037309.D

Acq: 31 Jul 2021 8:38

Instrument :

MSVOA_L

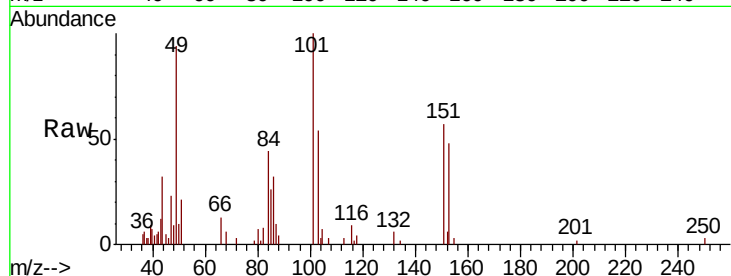
ClientSampleId :

Tot Ion:101 Resp: 10021

Ion Ratio Lower Upper

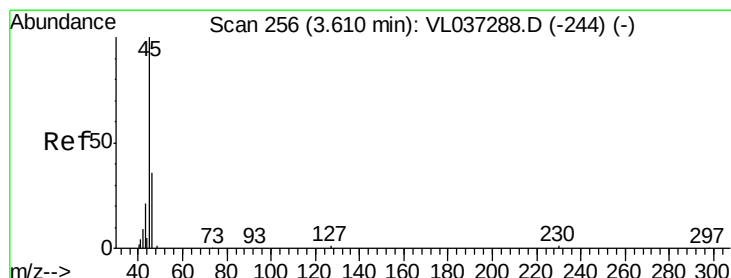
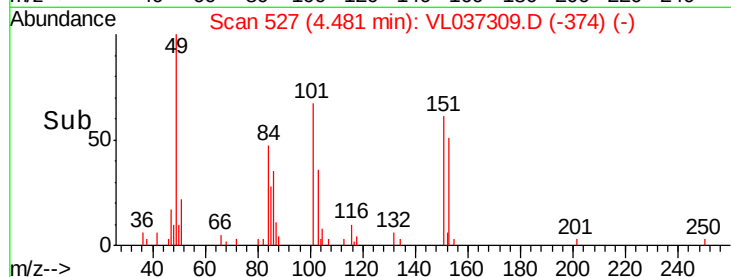
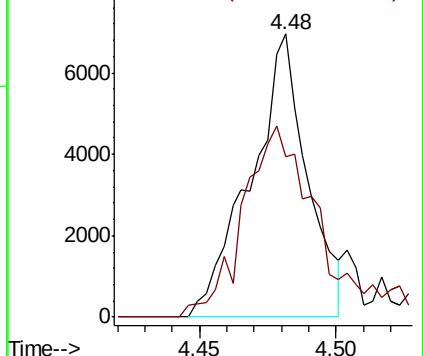
101 100

151 92.2 61.4 92.0#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 13.124 ppbv

RT: 3.60 min Scan# 254

Delta R.T. -0.01 min

Lab File: VL037309.D

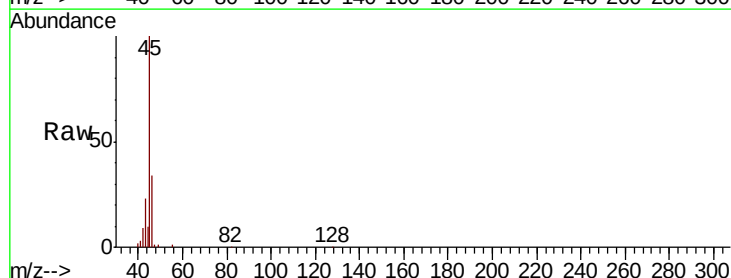
Acq: 31 Jul 2021 8:38

Tgt Ion: 45 Resp: 231122

Ion Ratio Lower Upper

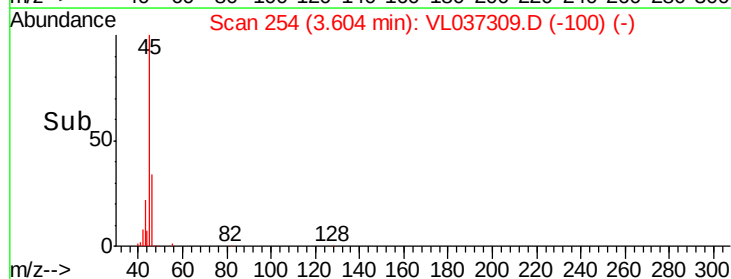
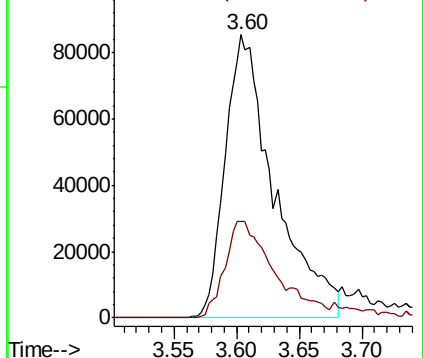
45 100

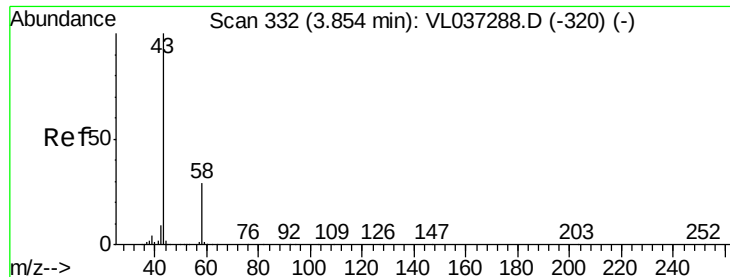
46 38.6 16.2 64.8



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 4.841 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.01 min

Lab File: VL037309.D

Acq: 31 Jul 2021 8:38

Instrument :

MSVOA_L

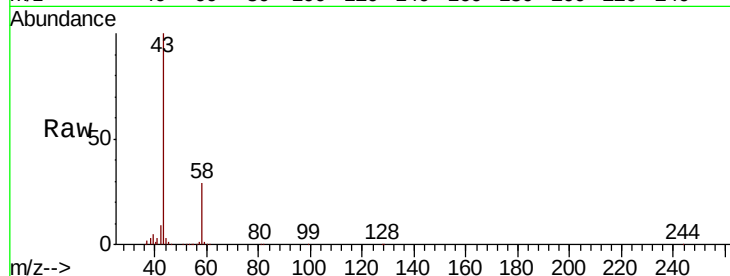
ClientSampled :

Tot Ion: 43 Resp: 1036538

Ion Ratio Lower Upper

43 100

58 30.5 24.2 36.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.84

500000

400000

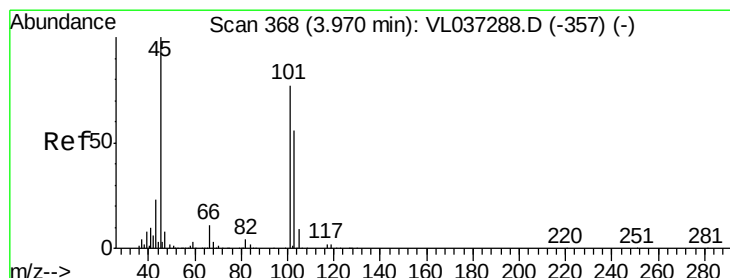
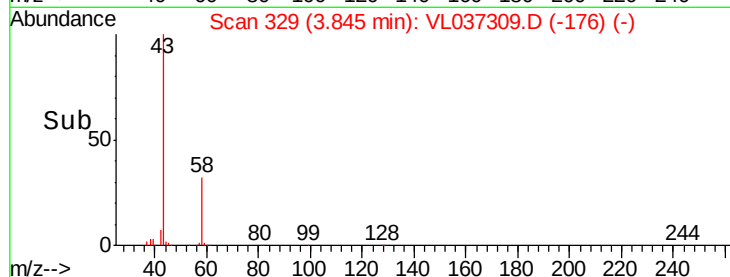
300000

200000

100000

0

Time-->



#19

Isopropyl Alcohol

Concen: 2.054 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.01 min

Lab File: VL037309.D

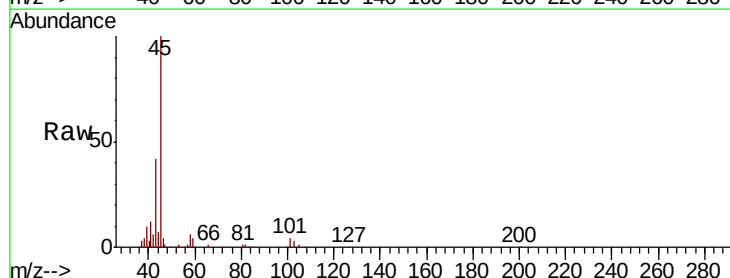
Acq: 31 Jul 2021 8:38

Tgt Ion: 45 Resp: 170151

Ion Ratio Lower Upper

45 100

58 11.0 2.2 3.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.98

80000

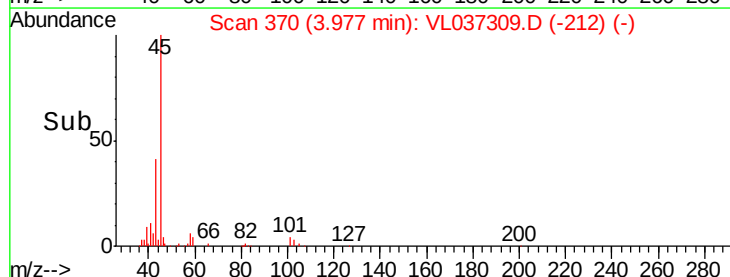
60000

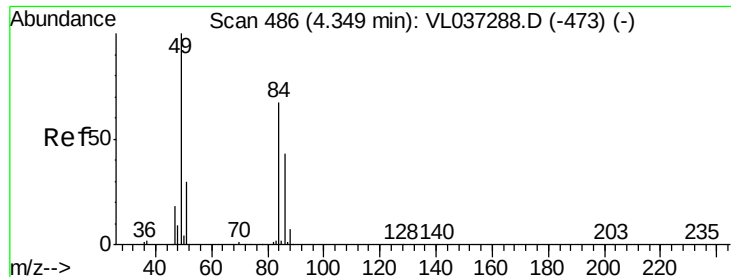
40000

20000

0

Time-->

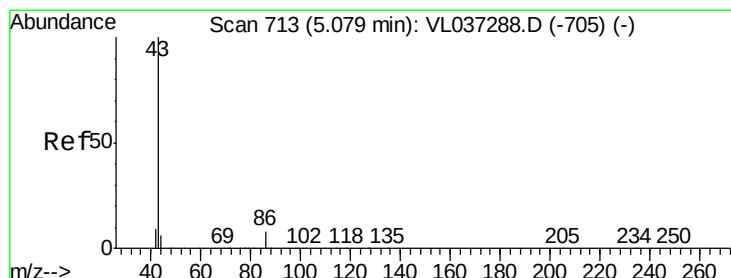
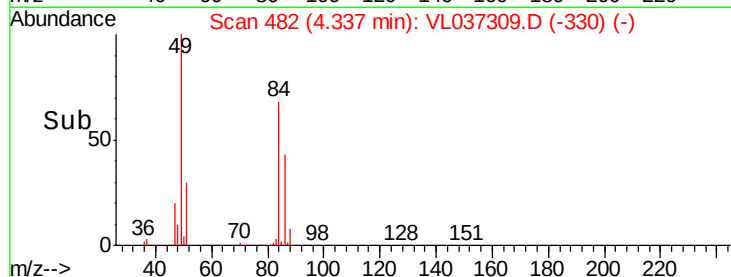
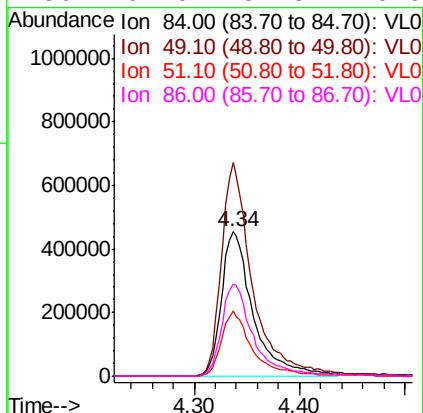
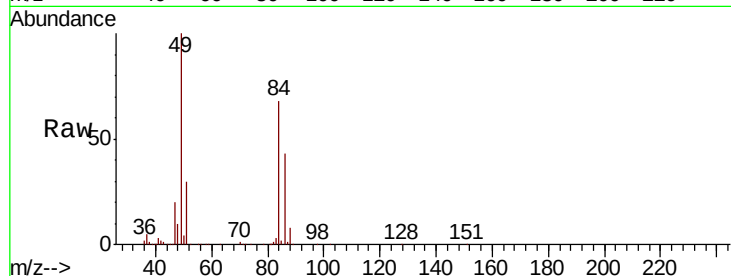




#20
Methvlene Chloride
Concen: 11.411 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.01 min
Lab File: VL037309.D
Acq: 31 Jul 2021 8:38

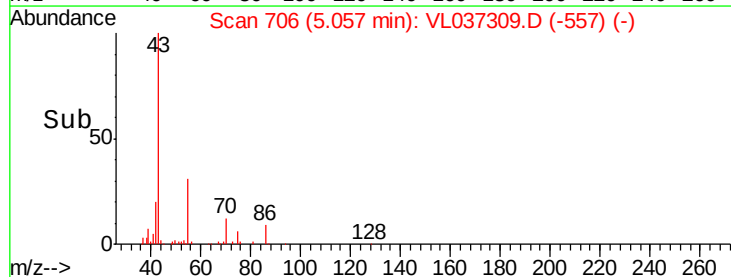
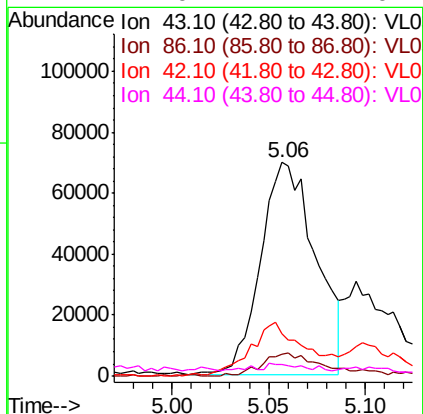
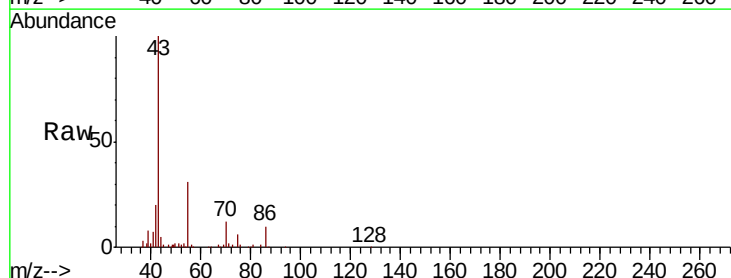
Instrument :
MSVOA_L
ClientSampleId :

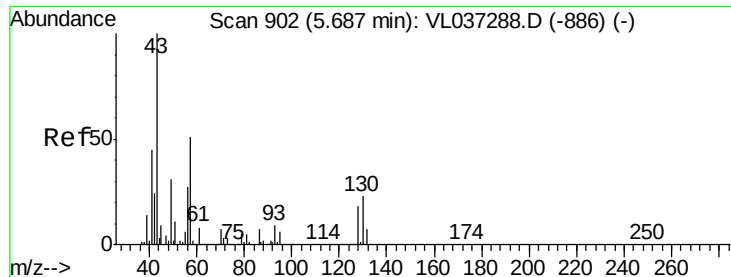
Tot Ion:	84	Resp:	945407
Ion	Ratio	Lower	Upper
84	100		
49	147.7	120.2	180.4
51	44.8	36.5	54.7
86	64.0	51.3	76.9



#23
Vinyl Acetate
Concen: 0.765 ppbv
RT: 5.06 min Scan# 706
Delta R.T. -0.02 min
Lab File: VL037309.D
Acq: 31 Jul 2021 8:38

Tgt Ion:	43	Resp:	138156
Ion	Ratio	Lower	Upper
43	100		
86	9.5	5.7	8.5#
42	19.5	8.1	12.1#
44	2.0	4.1	6.1#

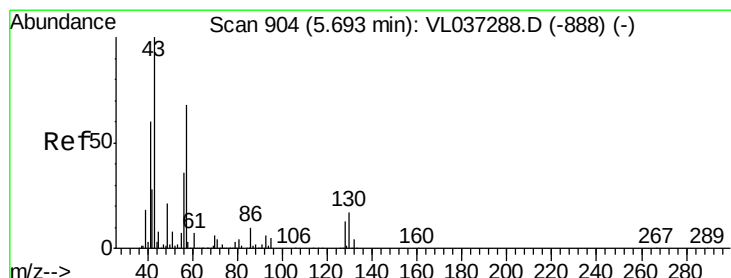
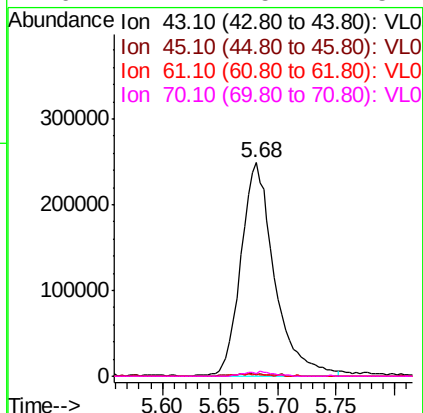
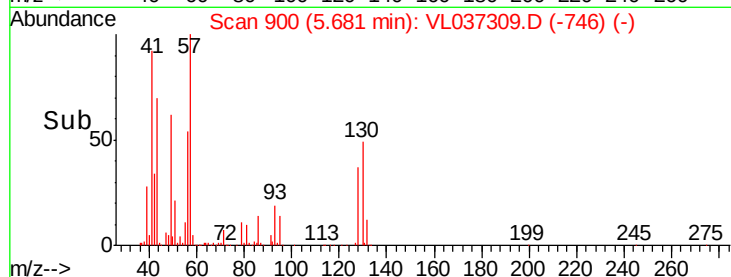
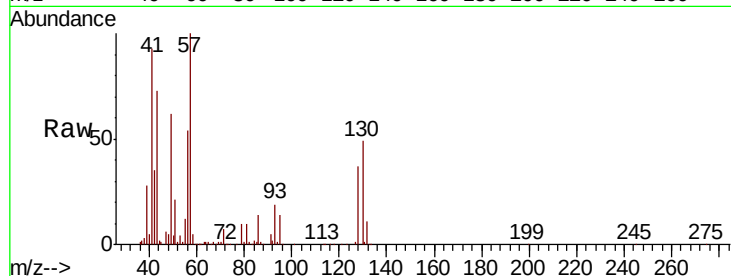




#25
Ethyl Acetate
Concen: 1.609 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.01 min
Lab File: VL037309.D
Acq: 31 Jul 2021 8:38

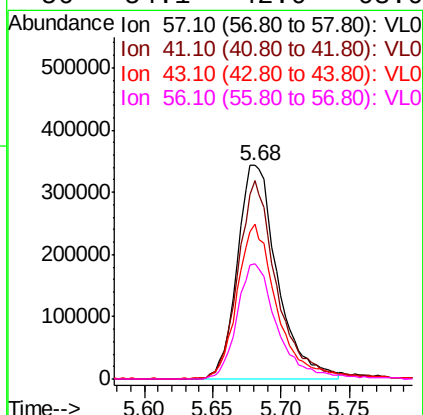
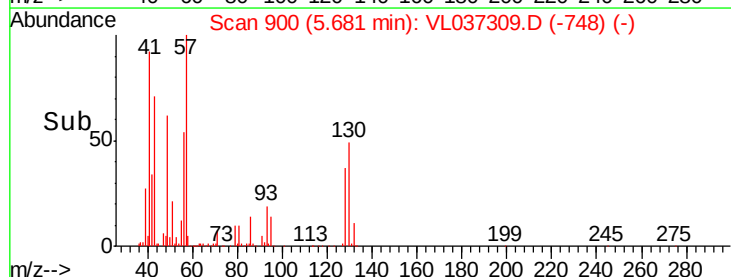
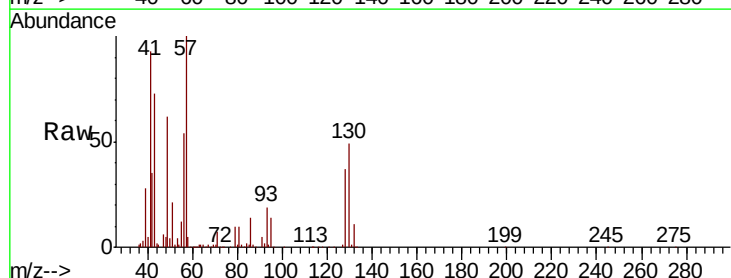
Instrument :
MSVOA_L
ClientSampleId :

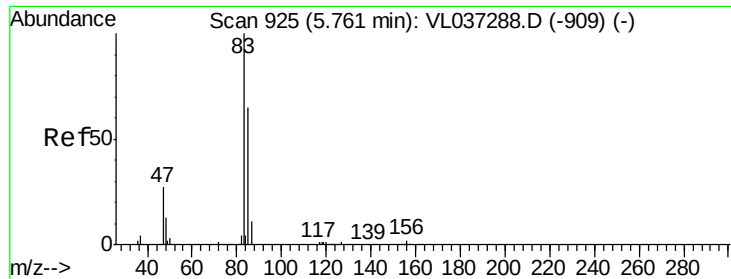
Tot Ion:	43	Resp:	499888
Ion	Ratio	Lower	Upper
43	100		
45	1.6	7.4	11.2#
61	1.0	7.8	11.6#
70	2.1	5.4	8.2#



#26
Hexane
Concen: 4.224 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.01 min
Lab File: VL037309.D
Acq: 31 Jul 2021 8:38

Tgt Ion:	57	Resp:	701329
Ion	Ratio	Lower	Upper
57	100		
41	91.1	71.0	106.6
43	72.6	155.0	232.4#
56	54.1	42.0	63.0





#29

Chloroform

Concen: 0.061 ppbv

RT: 5.74 min Scan# 919

Delta R.T. -0.02 min

Lab File: VL037309.D

Acq: 31 Jul 2021 8:38

Instrument :

MSVOA_L

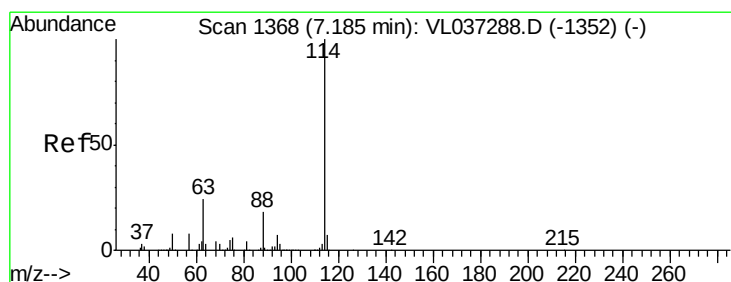
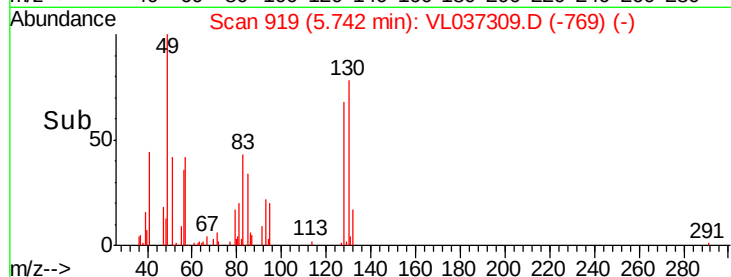
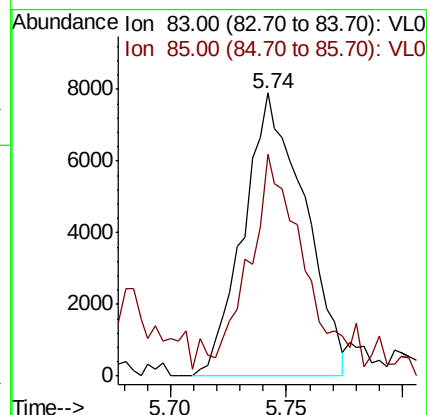
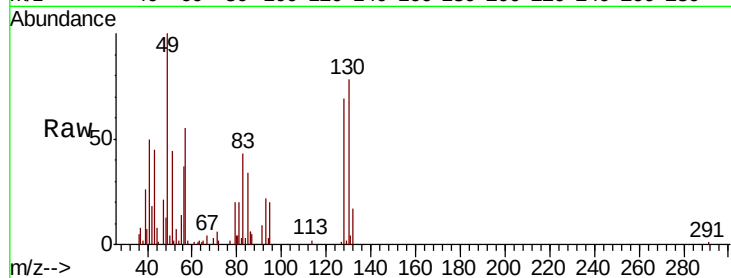
ClientSampleId :

Tot Ion: 83 Resp: 14454

Ion Ratio Lower Upper

83 100

85 76.2 51.9 77.9



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1363

Delta R.T. -0.02 min

Lab File: VL037309.D

Acq: 31 Jul 2021 8:38

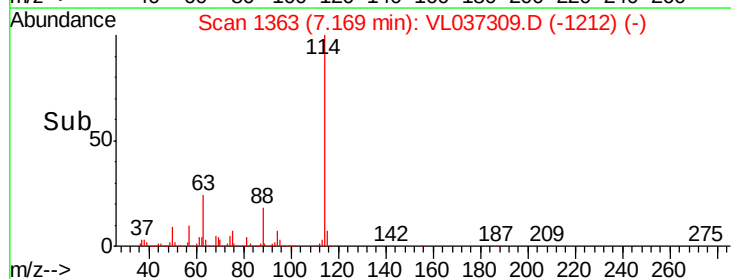
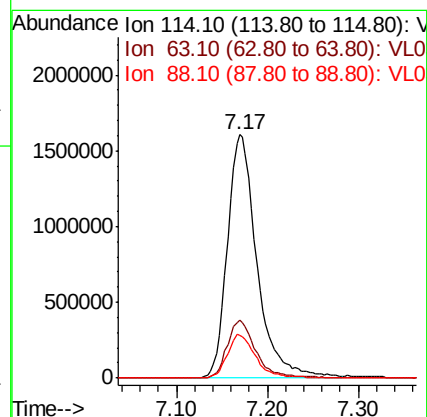
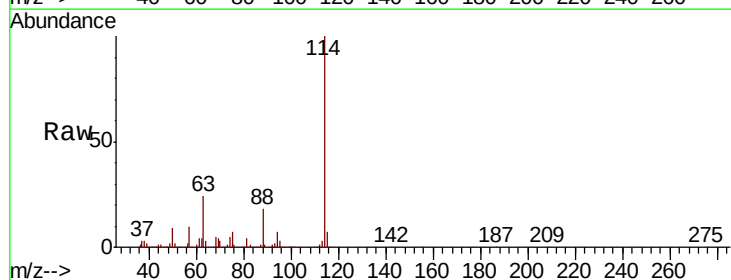
Tgt Ion: 114 Resp: 3626525

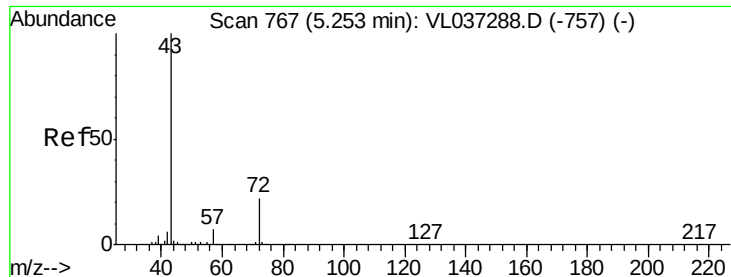
Ion Ratio Lower Upper

114 100

63 23.3 19.0 28.4

88 17.5 14.0 21.0

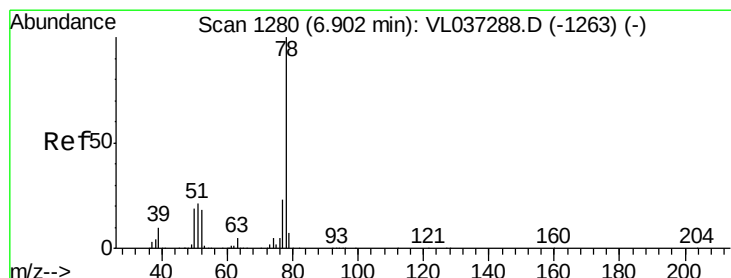
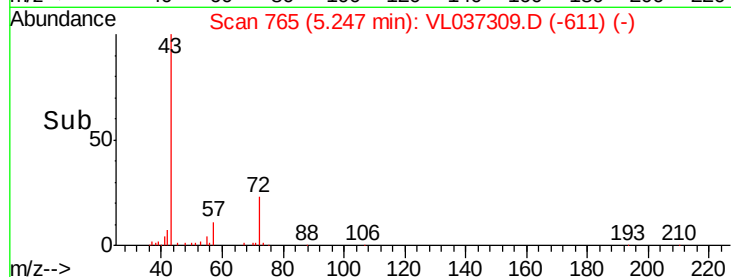
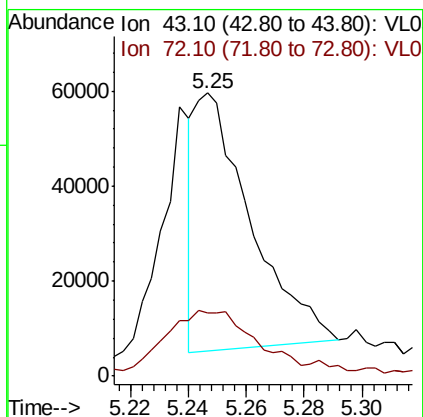
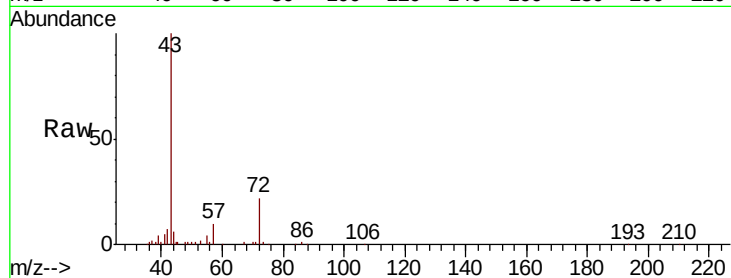




#34
2-Butanone
Concen: 0.464 ppbv
RT: 5.25 min Scan# 765
Delta R.T. -0.01 min
Lab File: VL037309.D
Acq: 31 Jul 2021 8:38

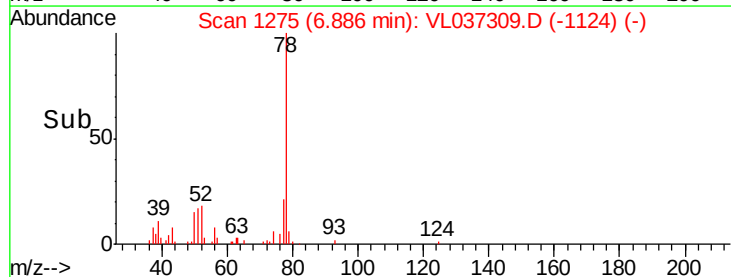
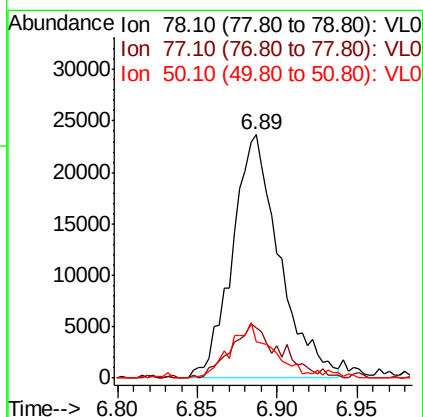
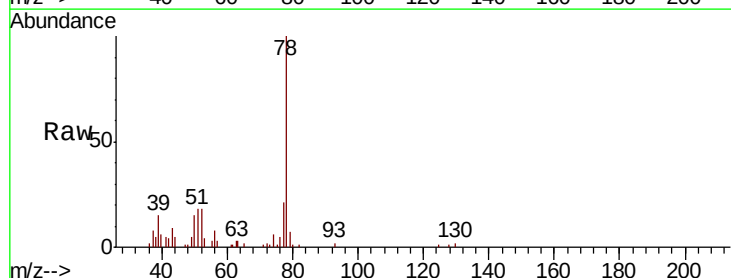
Instrument :
MSVOA_L
ClientSampleId :

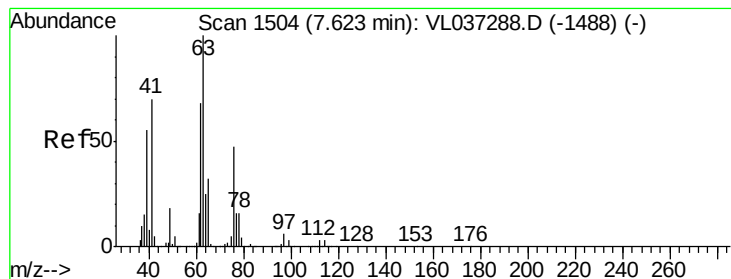
Tot Ion: 43 Resp: 72154
Ion Ratio Lower Upper
43 100
72 49.5 18.5 27.7#



#36
Benzene
Concen: 0.155 ppbv
RT: 6.89 min Scan# 1275
Delta R.T. -0.02 min
Lab File: VL037309.D
Acq: 31 Jul 2021 8:38

Tgt Ion: 78 Resp: 47647
Ion Ratio Lower Upper
78 100
77 20.5 18.3 27.5
50 13.6 15.5 23.3#





#39

1,2-Dichloropropane

Concen: 7.119 ppbv

RT: 7.17 min Scan# 1363

Delta R.T. -0.45 min

Lab File: VL037309.D

Acq: 31 Jul 2021 8:38

Instrument :

MSVOA_L

ClientSampleId :

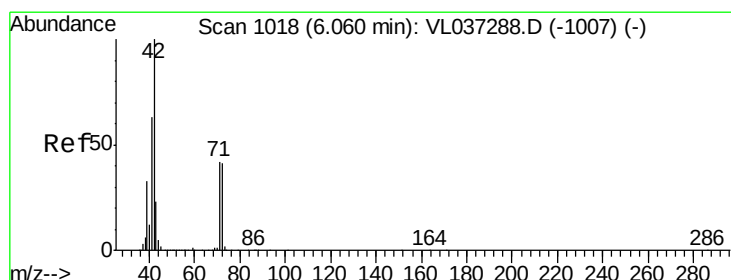
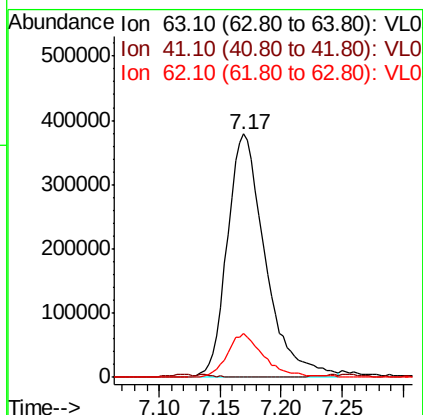
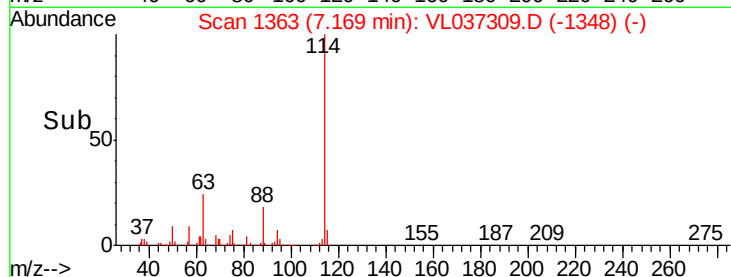
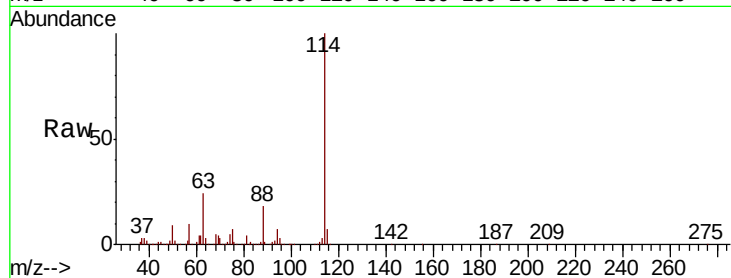
Tot Ion: 63 Resp: 822017

Ion Ratio Lower Upper

63 100

41 0.0 56.4 84.6#

62 18.1 54.6 82.0#



#41

Tetrahydrofuran

Concen: 4.132 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.38 min

Lab File: VL037309.D

Acq: 31 Jul 2021 8:38

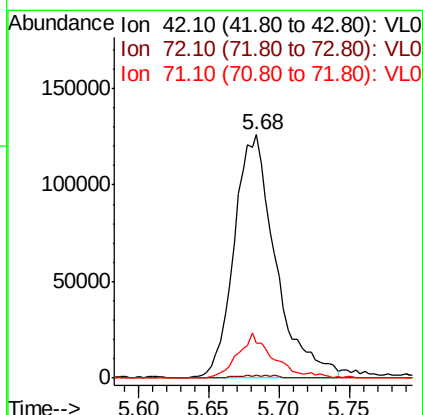
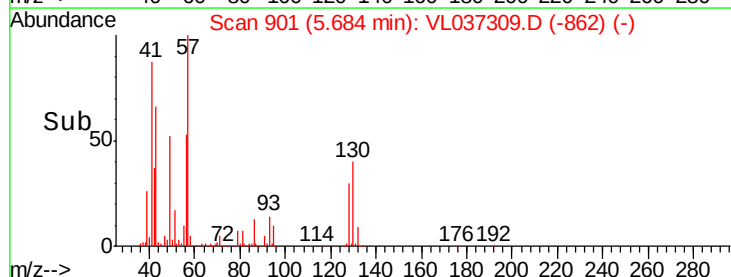
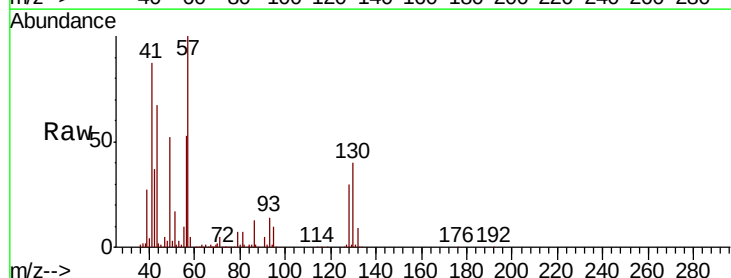
Tgt Ion: 42 Resp: 258334

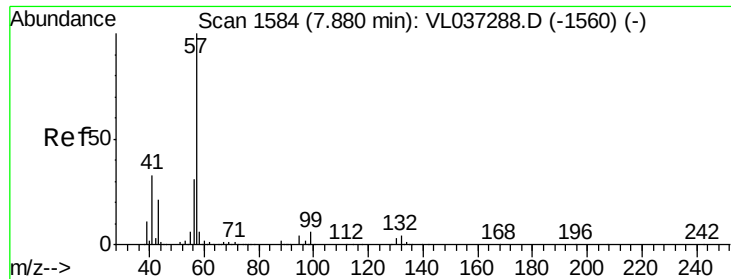
Ion Ratio Lower Upper

42 100

72 1.1 33.0 49.6#

71 16.1 32.7 49.1#

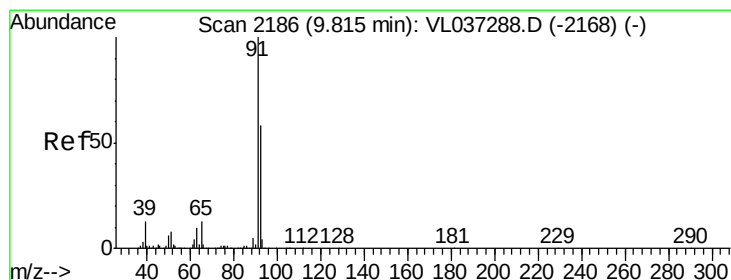
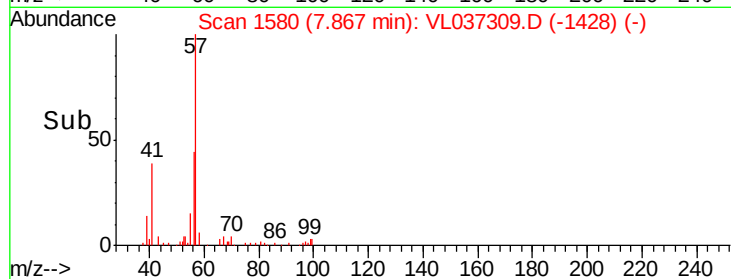
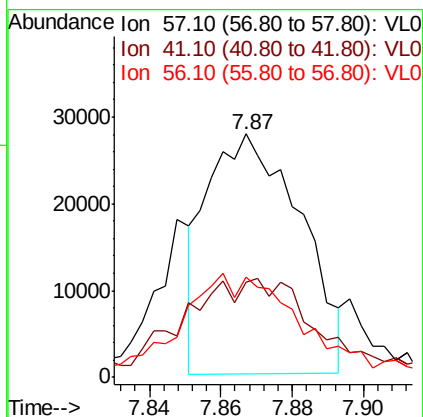
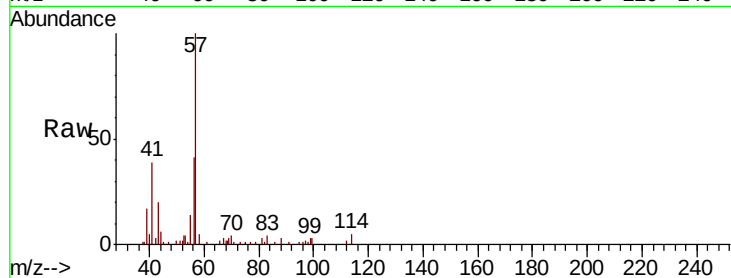




#44
 2,2,4-Trimethylpentane
 Concen: 0.100 ppbv
 RT: 7.87 min Scan# 1580
 Delta R.T. -0.01 min
 Lab File: VL037309.D
 Acq: 31 Jul 2021 8:38

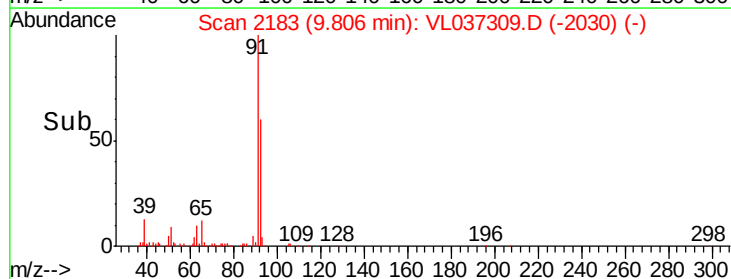
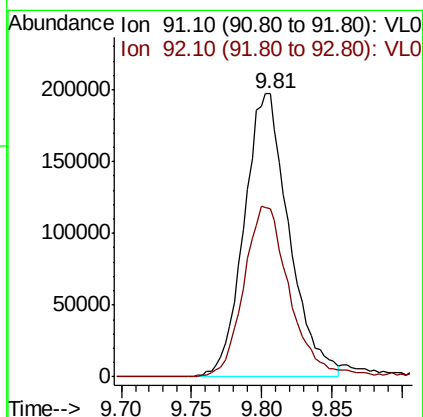
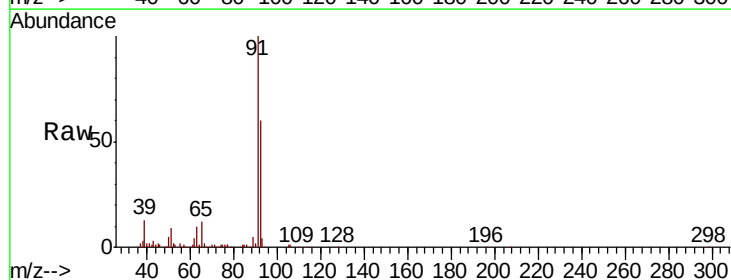
Instrument :
 MSVOA_L
 ClientSampleId :

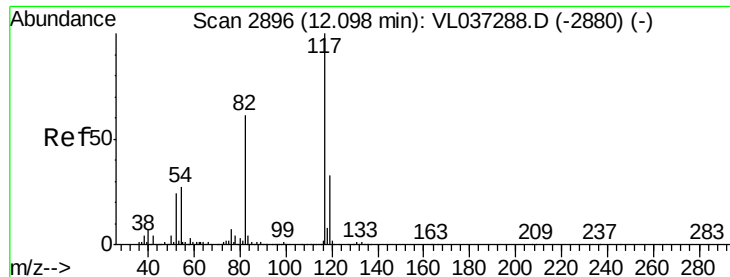
Tot Ion	57	Resp	50120
Ion Ratio	Lower	Upper	
57	100		
41	61.6	26.6	40.0#
56	67.4	25.3	37.9#



#53
 Toluene
 Concen: 1.220 ppbv
 RT: 9.81 min Scan# 2183
 Delta R.T. -0.01 min
 Lab File: VL037309.D
 Acq: 31 Jul 2021 8:38

Tgt Ion	91	Resp	440339
Ion Ratio	Lower	Upper	
91	100		
92	62.9	48.2	72.2

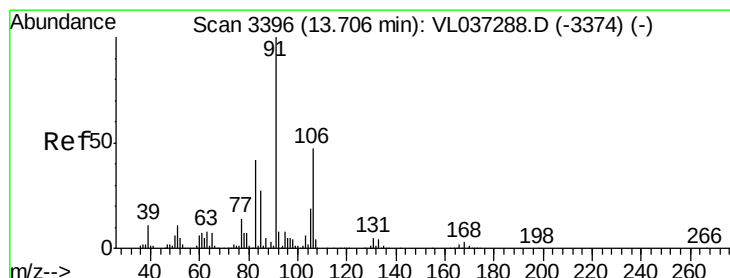
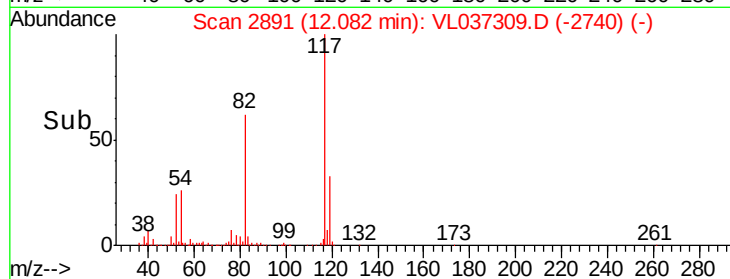
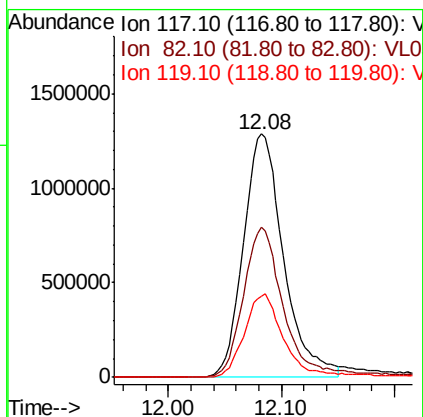
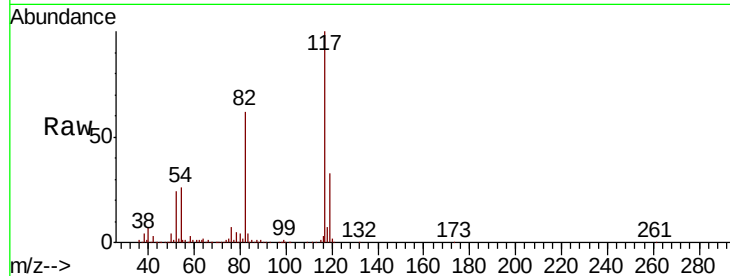




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2891
Delta R.T. -0.02 min
Lab File: VL037309.D
Acq: 31 Jul 2021 8:38

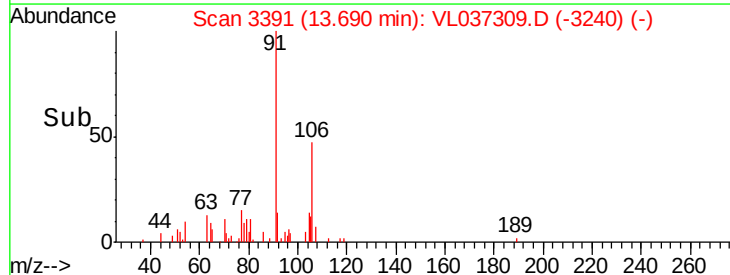
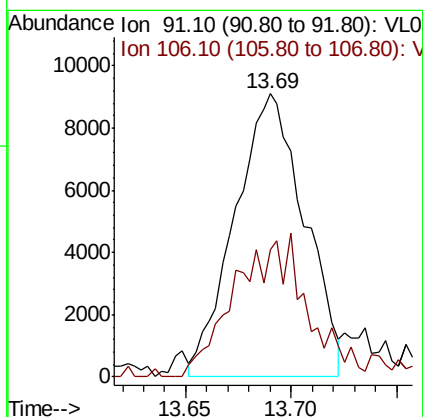
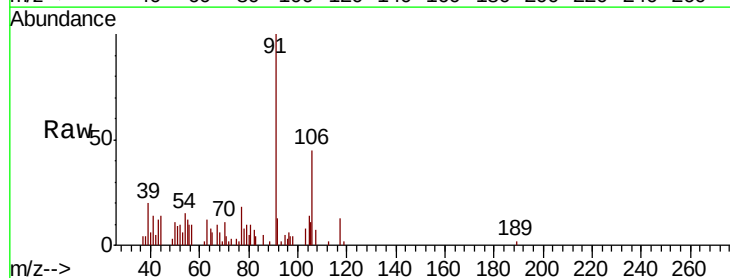
Instrument :
MSVOA_L
ClientSampleId :

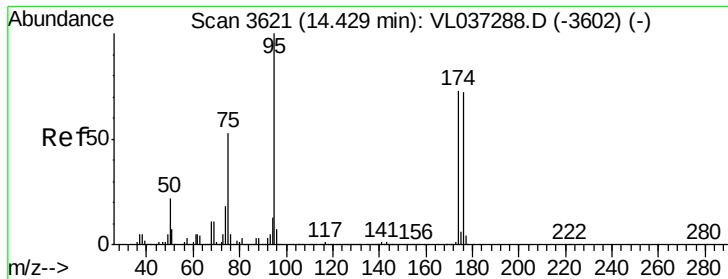
Tot Ion:117 Resp: 3178886
Ion Ratio Lower Upper
117 100
82 64.5 47.2 70.8
119 34.5 45.8 68.8#



#60
o-Xylene
Concen: 0.058 ppbv
RT: 13.69 min Scan# 3391
Delta R.T. -0.02 min
Lab File: VL037309.D
Acq: 31 Jul 2021 8:38

Tgt Ion: 91 Resp: 20830
Ion Ratio Lower Upper
91 100
106 55.9 23.4 70.0

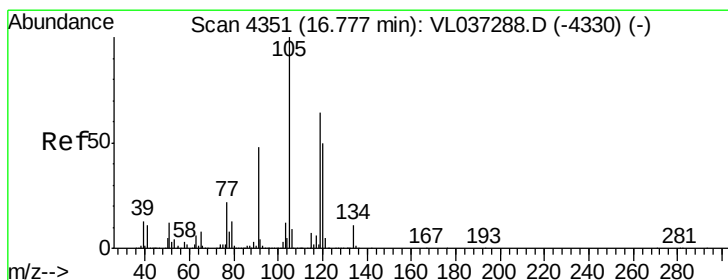
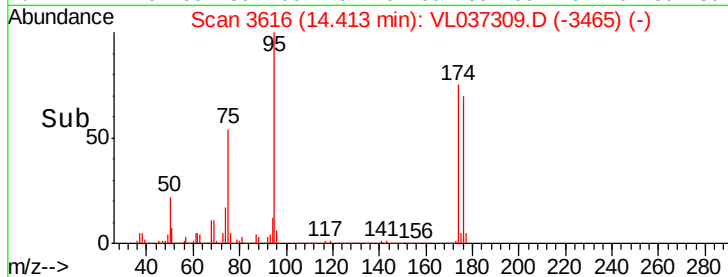
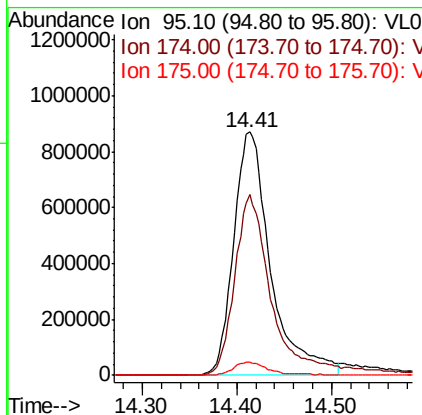
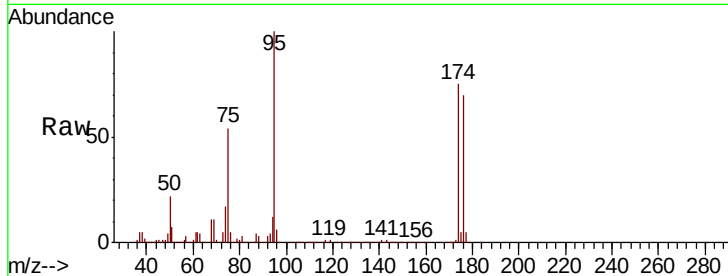




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.266 ppbv
 RT: 14.41 min Scan# 3616
 Delta R.T. -0.02 min
 Lab File: VL037309.D
 Acq: 31 Jul 2021 8:38

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 95 Resp: 2374125
 Ion Ratio Lower Upper
 95 100
 174 77.2 59.8 89.6
 175 5.4 4.5 6.7



#74
 1,2,4-Trimethylbenzene
 Concen: 0.102 ppbv
 RT: 16.76 min Scan# 4347
 Delta R.T. -0.01 min
 Lab File: VL037309.D
 Acq: 31 Jul 2021 8:38

Tgt Ion: 105 Resp: 44371
 Ion Ratio Lower Upper
 105 100
 120 45.3 40.2 60.4
 91 12.5 39.0 58.6#
 77 10.5 17.4 26.0#

