

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081221\
 Data File : VL037420.D
 Acq On : 12 Aug 2021 19:24
 Operator : SY/AP
 Sample : M3239-01DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 13 03:05:50 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081221AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 13 01:37:35 2021
 QLast Update : Fri Aug 13 01:37:35 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1323882	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3941411	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3377098	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2421427	10.00	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.00%

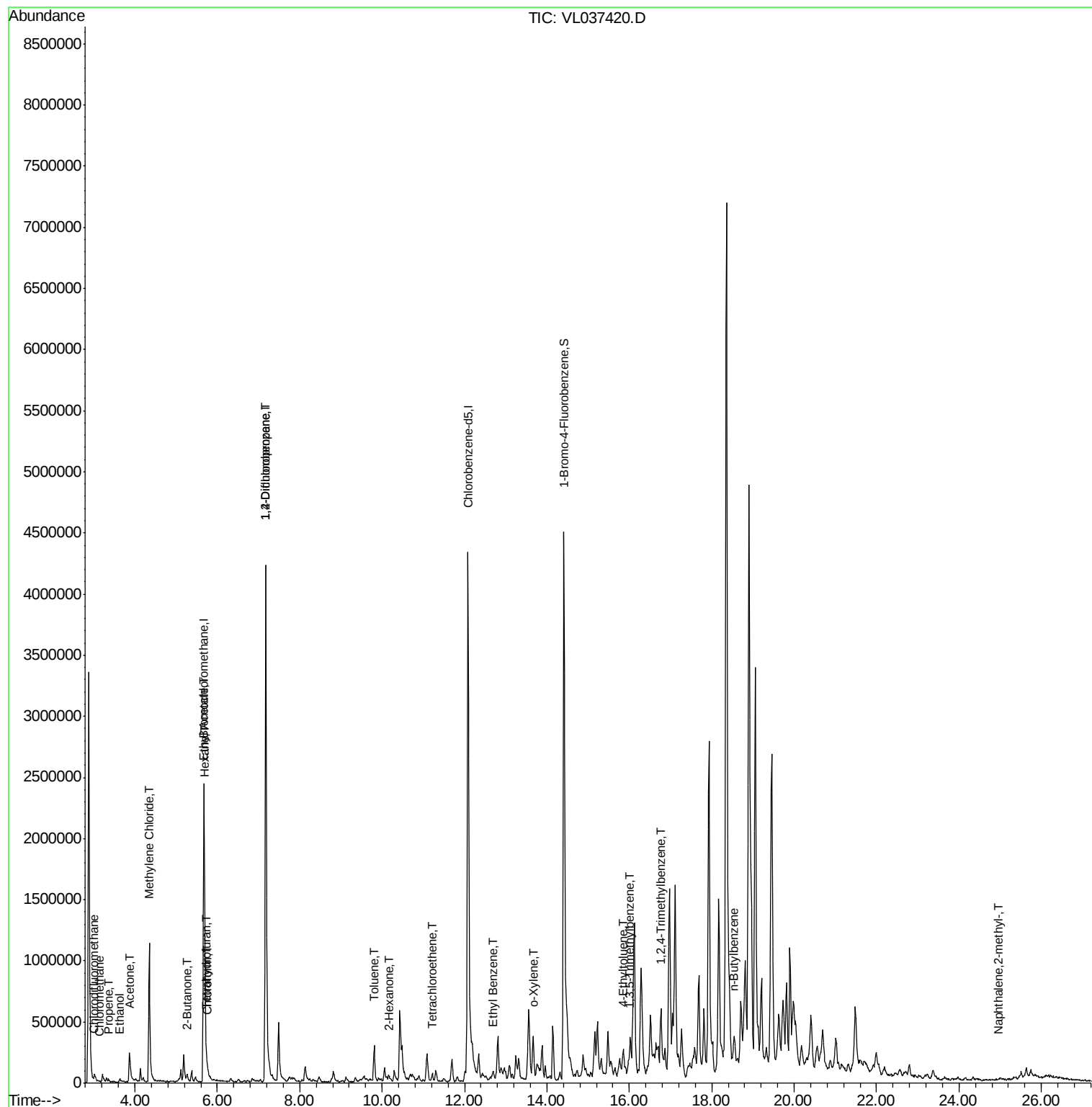
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.99	51	26076	0.100	ppbv #	89
4) Chloromethane	3.14	50	4568	0.049	ppbv #	68
9) Propene	3.36	41	5975	0.068	ppbv	92
13) Ethanol	3.62	45	8214	0.882	ppbv #	31
15) Acetone	3.86	43	133841	0.953	ppbv #	44
20) Methylene Chloride	4.35	84	466799	6.288	ppbv	98
25) Ethyl Acetate	5.69	43	280555	0.838	ppbv #	77
26) Hexane	5.69	57	401108	2.323	ppbv #	48
29) Chloroform	5.75	83	33634	0.138	ppbv	93
34) 2-Butanone	5.27	43	50121	0.308	ppbv #	32
39) 1,2-Dichloropropane	7.18	63	911015	7.196	ppbv #	26
41) Tetrahydrofuran	5.74	42	2601	0.035	ppbv #	41
51) 2-Hexanone	10.15	43	16613	0.172	ppbv #	28
52) Tetrachloroethene	11.22	164	5500	0.039	ppbv #	60
53) Toluene	9.81	91	237725	0.627	ppbv	99
58) Ethyl Benzene	12.71	91	17854	0.039	ppbv	91
60) o-Xylene	13.69	91	26224	0.070	ppbv #	55
70) n-Butylbenzene	18.55	91	17724	0.035	ppbv #	30
72) 4-Ethyltoluene	15.84	105	19025	0.044	ppbv #	54
73) 1,3,5-Trimethylbenzene	16.00	105	17609	0.043	ppbv #	58
74) 1,2,4-Trimethylbenzene	16.76	105	204634	0.487	ppbv #	67
80) Naphthalene,2-methyl-	24.96	142	2002	0.042	ppbv #	82

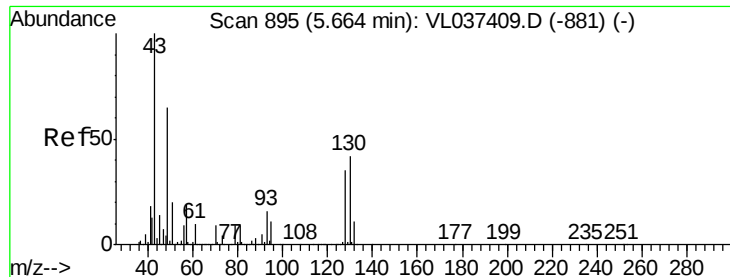
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Aug 13 01:37:35 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.01 min

Lab File: VL037420.D

Acq: 12 Aug 2021 19:24

Instrument :

MSVOA_L

ClientSampleId :

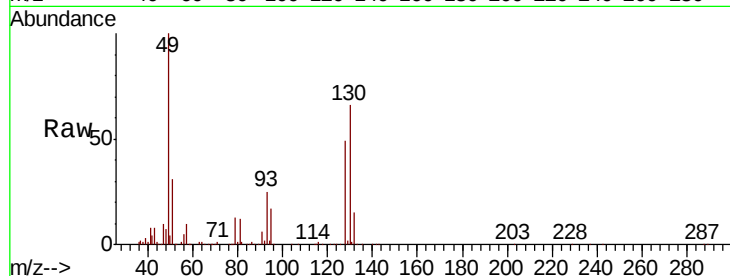
Tot Ion: 49 Resp: 1323882

Ion Ratio Lower Upper

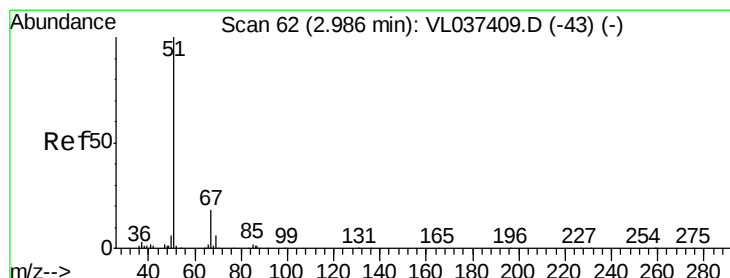
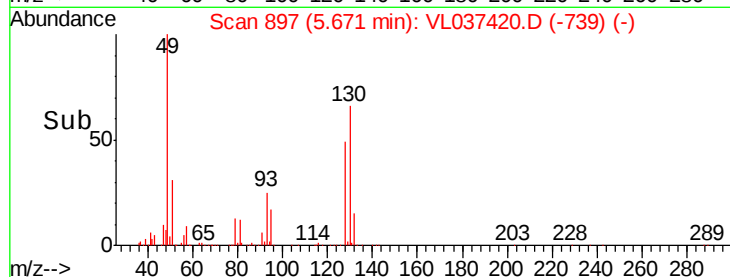
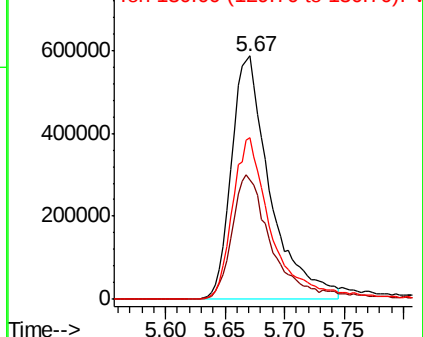
49 100

128 54.7 27.9 83.6

130 69.5 34.6 103.8



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



#3

Chlorodifluoromethane

Concen: 0.100 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.00 min

Lab File: VL037420.D

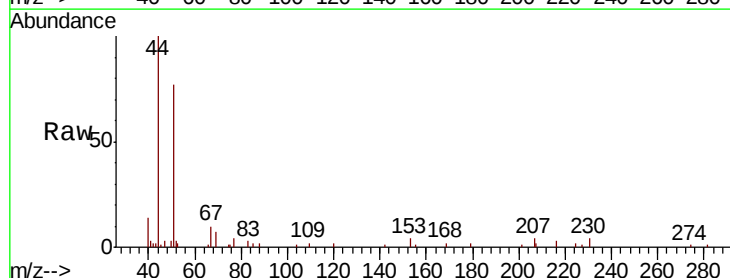
Acq: 12 Aug 2021 19:24

Tgt Ion: 51 Resp: 26076

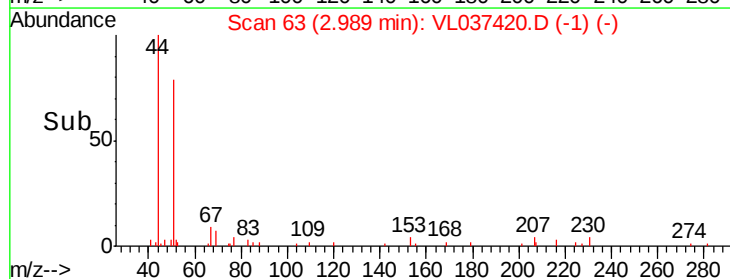
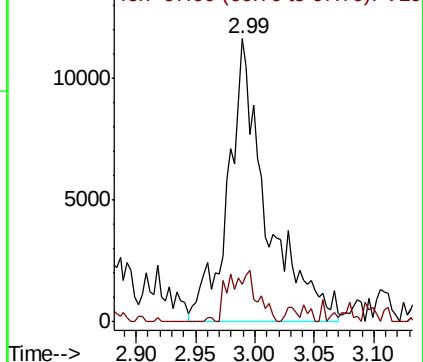
Ion Ratio Lower Upper

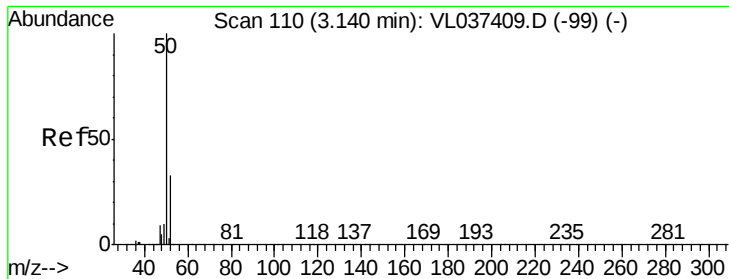
51 100

67 13.5 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: 0.049 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL037420.D

Acq: 12 Aug 2021 19:24

Instrument :

MSVOA_L

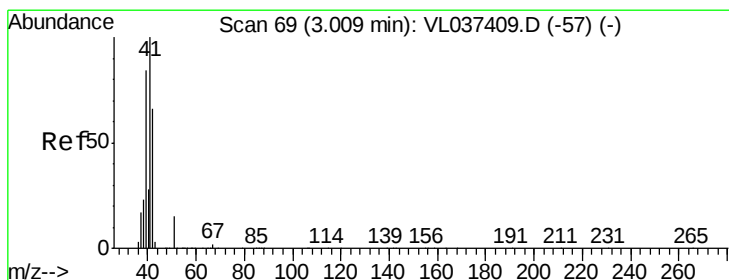
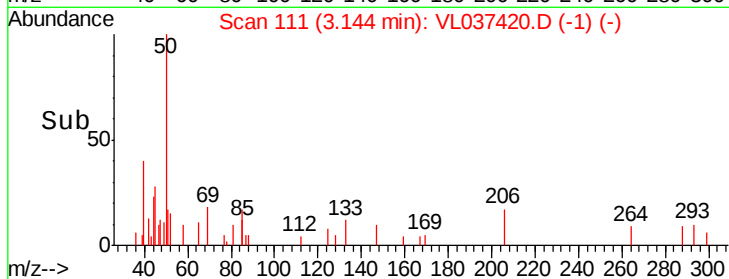
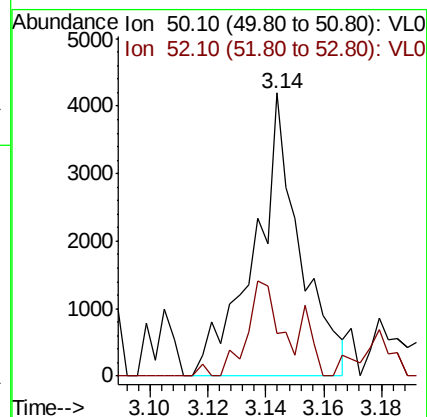
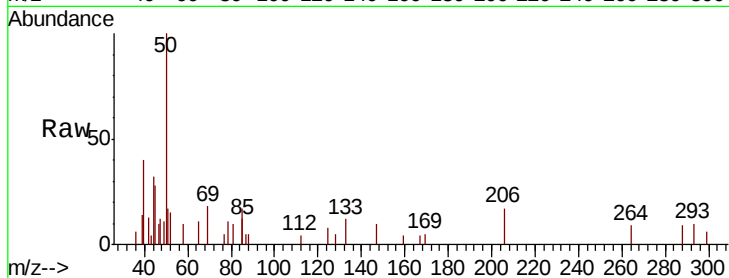
ClientSampleId :

Tot Ion: 50 Resp: 4568

Ion Ratio Lower Upper

50 100

52 14.9 26.2 39.4#



#9

Propene

Concen: 0.068 ppbv

RT: 3.36 min Scan# 179

Delta R.T. 0.35 min

Lab File: VL037420.D

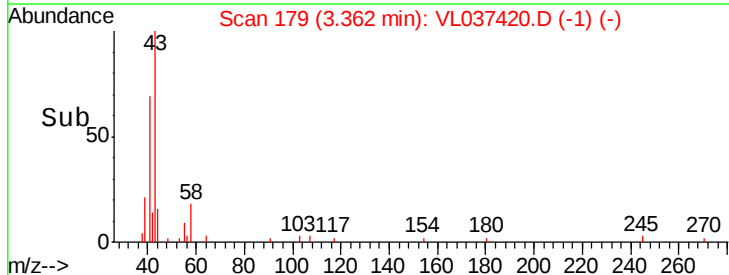
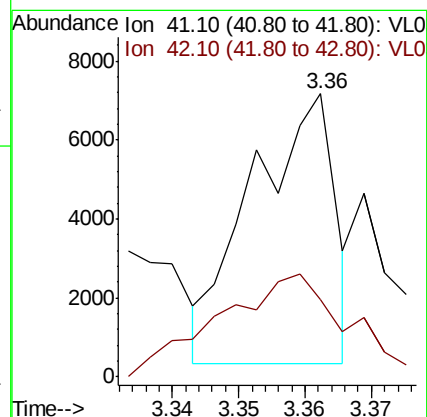
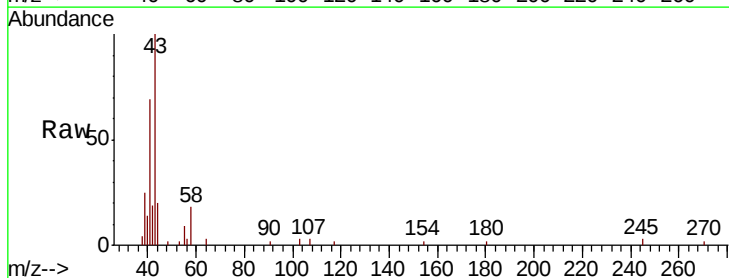
Acq: 12 Aug 2021 19:24

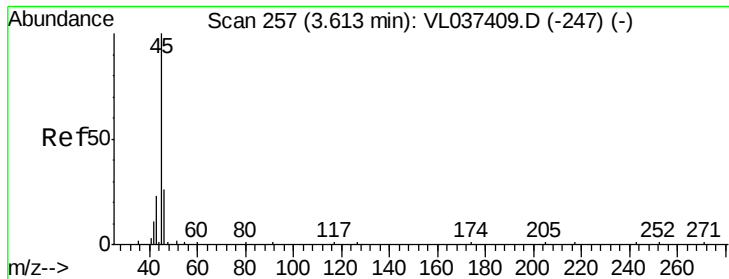
Tgt Ion: 41 Resp: 5975

Ion Ratio Lower Upper

41 100

42 73.8 53.8 80.8

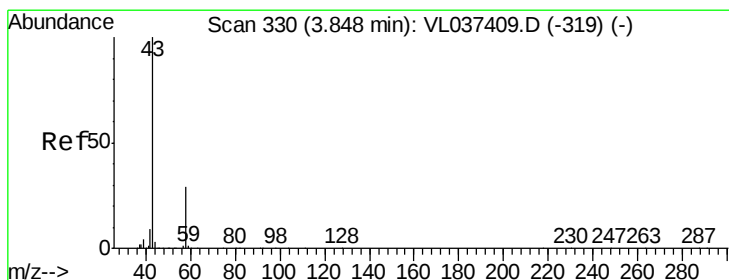
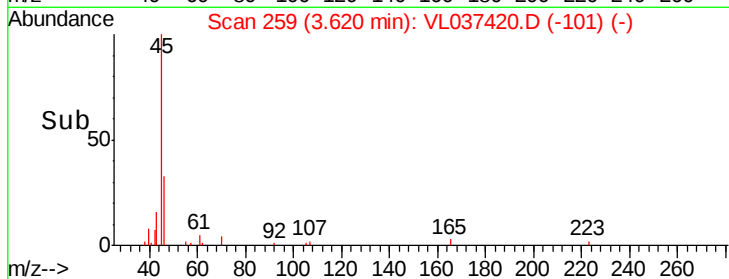
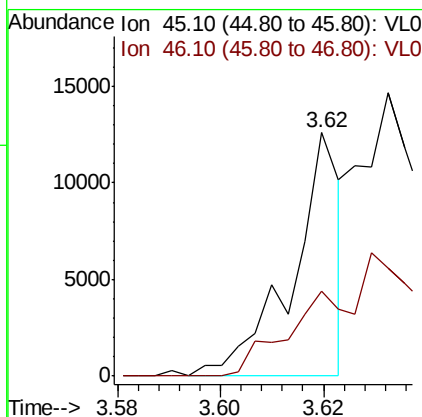
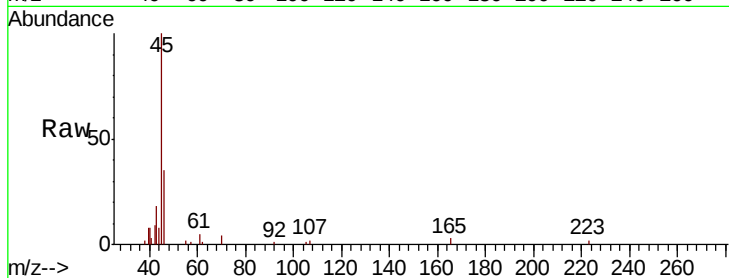




#13
Ethanol
Concen: 0.882 ppbv
RT: 3.62 min Scan# 259
Delta R.T. 0.01 min
Lab File: VL037420.D
Acq: 12 Aug 2021 19:24

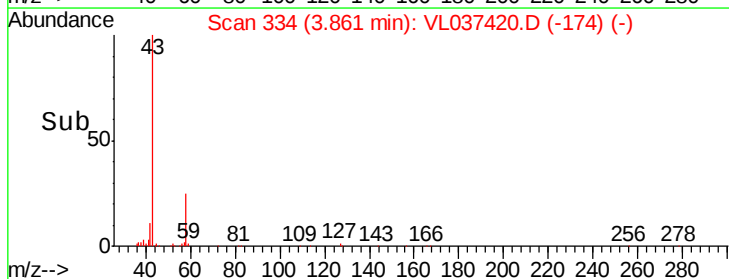
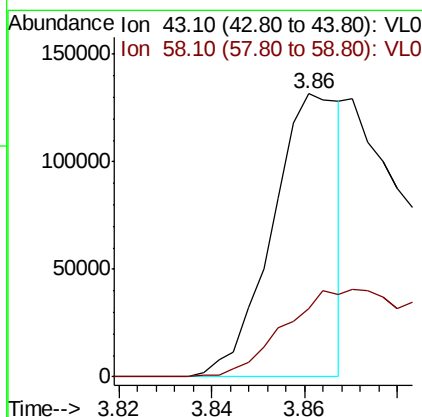
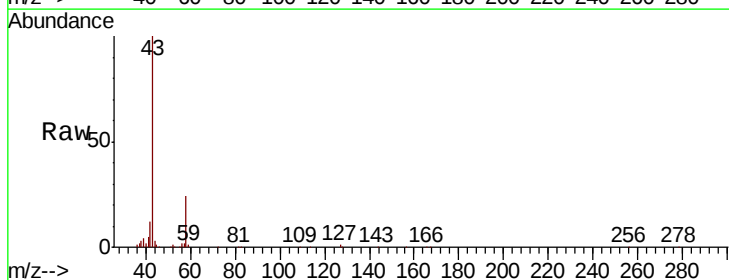
Instrument :
MSVOA_L
ClientSampleId :

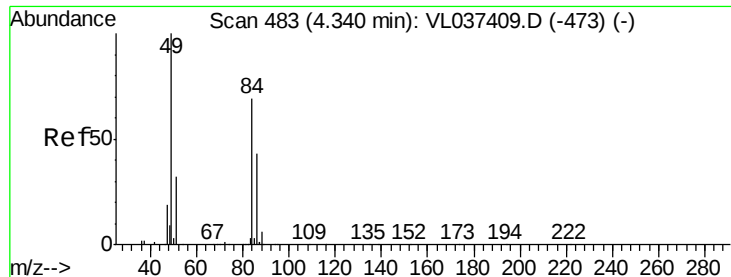
Tot Ion: 45 Resp: 8214
Ion Ratio Lower Upper
45 100
46 0.0 18.0 72.2#



#15
Acetone
Concen: 0.953 ppbv
RT: 3.86 min Scan# 334
Delta R.T. 0.01 min
Lab File: VL037420.D
Acq: 12 Aug 2021 19:24

Tgt Ion: 43 Resp: 133841
Ion Ratio Lower Upper
43 100
58 0.0 24.4 36.6#

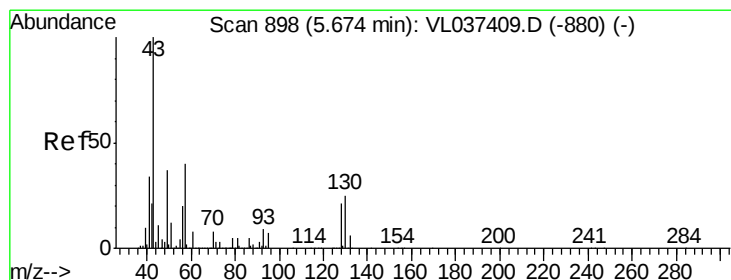
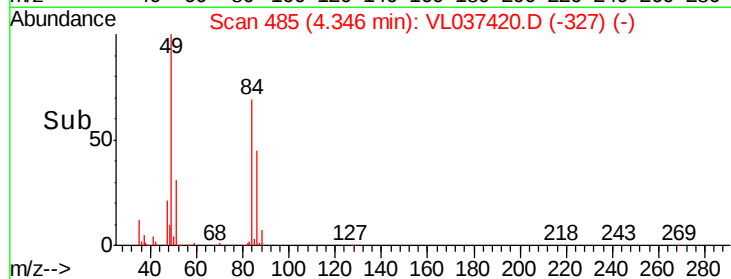
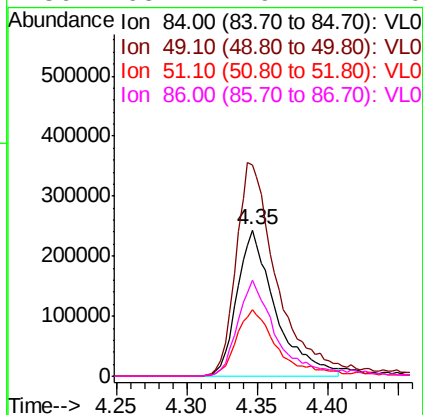
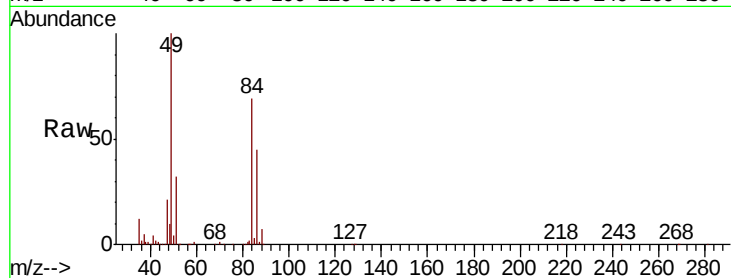




#20
Methvlene Chloride
Concen: 6.288 ppbv
RT: 4.35 min Scan# 485
Delta R.T. 0.01 min
Lab File: VL037420.D
Acq: 12 Aug 2021 19:24

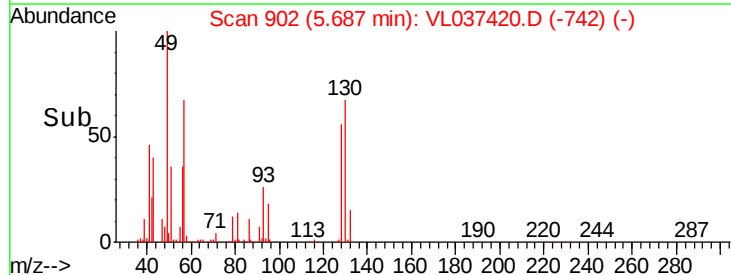
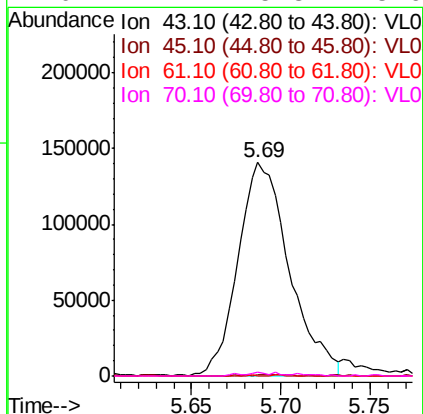
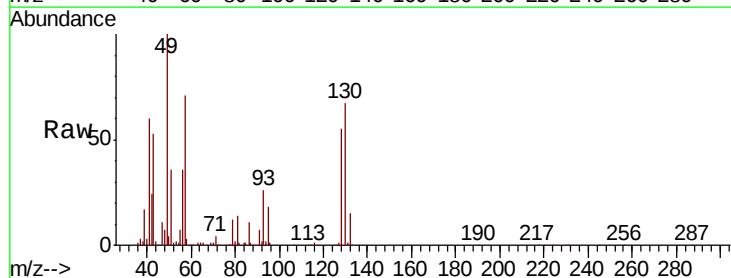
Instrument :
MSVOA_L
ClientSampled :

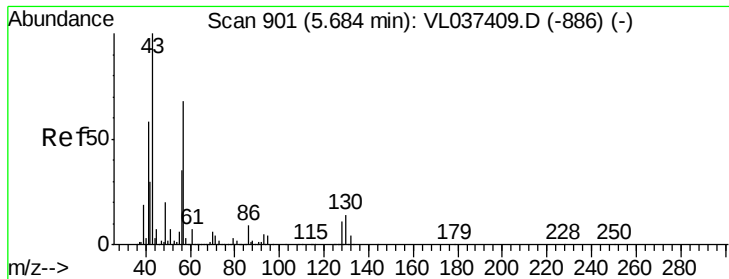
Tot Ion:	84	Resp:	466799
Ion	Ratio	Lower	Upper
84	100		
49	144.1	116.0	174.0
51	45.5	37.1	55.7
86	65.4	49.4	74.0



#25
Ethyl Acetate
Concen: 0.838 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.01 min
Lab File: VL037420.D
Acq: 12 Aug 2021 19:24

Tgt Ion:	43	Resp:	280555
Ion	Ratio	Lower	Upper
43	100		
45	0.6	7.9	11.9#
61	0.2	7.7	11.5#
70	1.7	5.8	8.6#





#26

Hexane

Concen: 2.323 ppbv

RT: 5.69 min Scan# 903

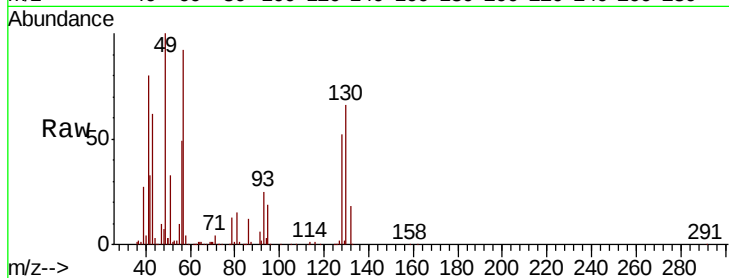
Delta R.T. 0.01 min

Lab File: VL037420.D

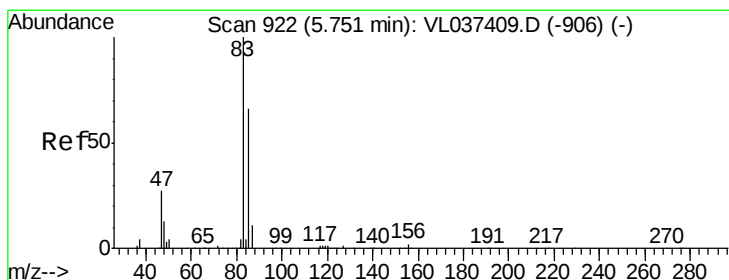
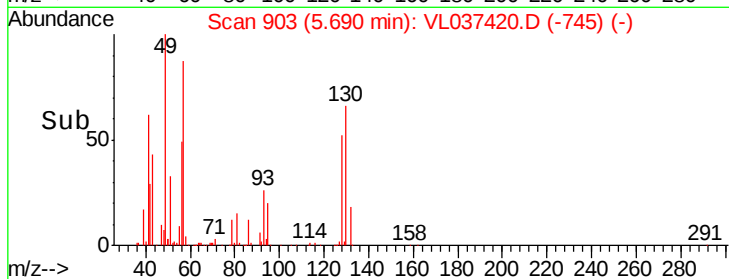
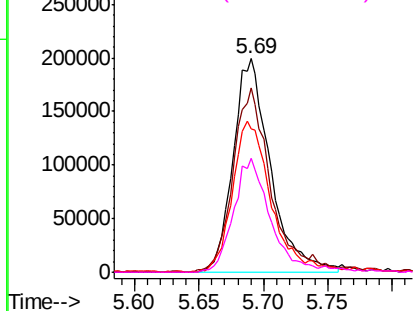
Acq: 12 Aug 2021 19:24

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	57	Resp:	401108
Ion	Ratio	Lower	Upper
57	100		
41	90.4	72.5	108.7
43	74.3	169.3	253.9#
56	53.6	42.3	63.5



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



#29

Chloroform

Concen: 0.138 ppbv

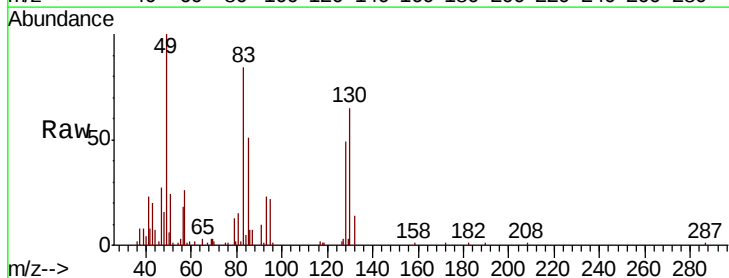
RT: 5.75 min Scan# 923

Delta R.T. 0.00 min

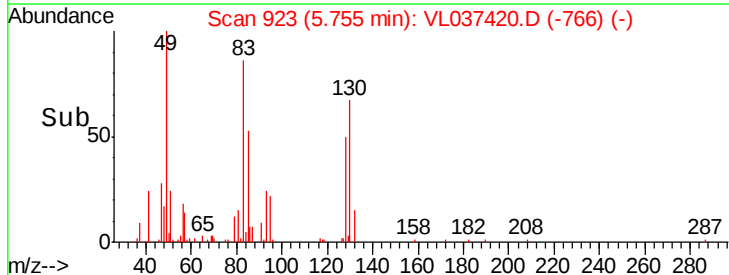
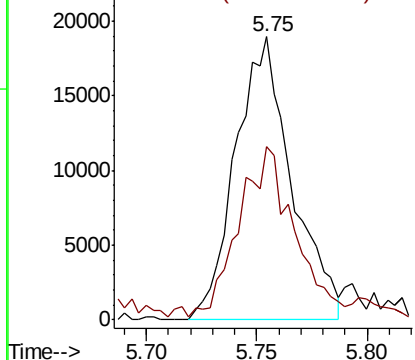
Lab File: VL037420.D

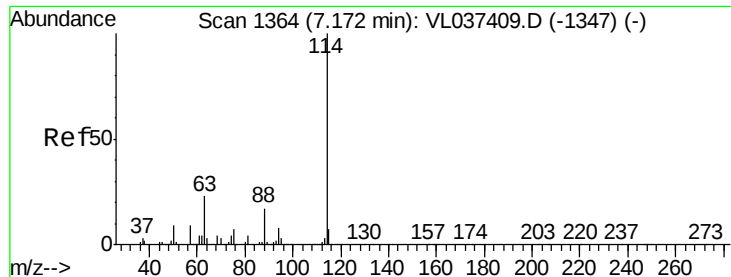
Acq: 12 Aug 2021 19:24

Tgt Ion:	83	Resp:	33634
Ion	Ratio	Lower	Upper
83	100		
85	60.1	52.4	78.6



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0

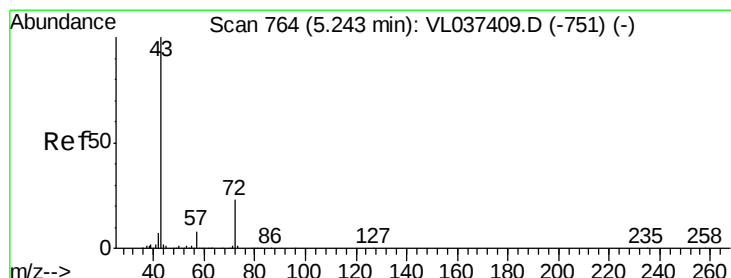
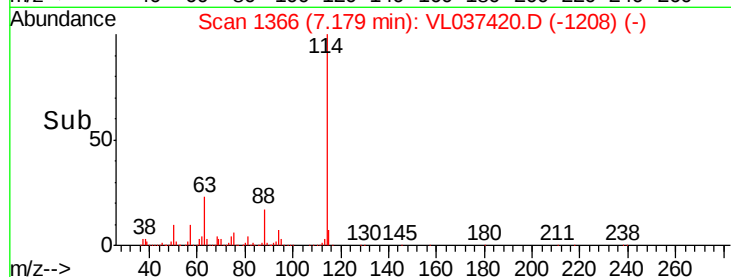
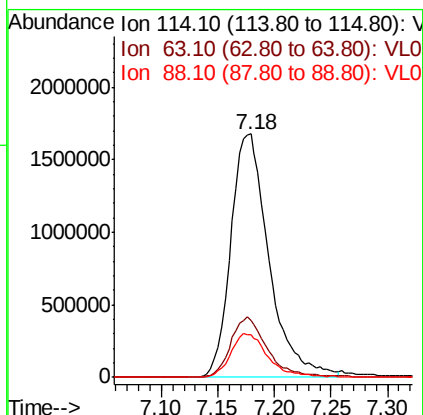
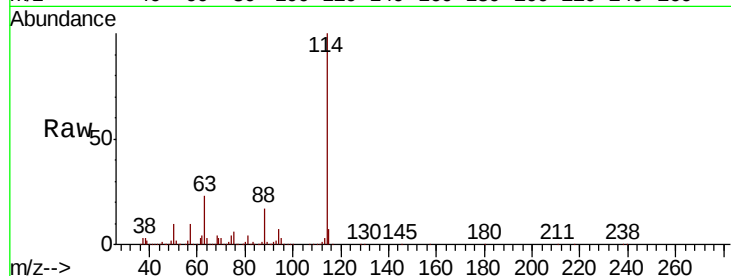




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. 0.01 min
 Lab File: VL037420.D
 Acq: 12 Aug 2021 19:24

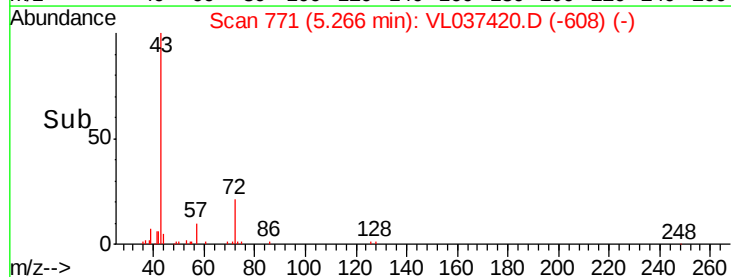
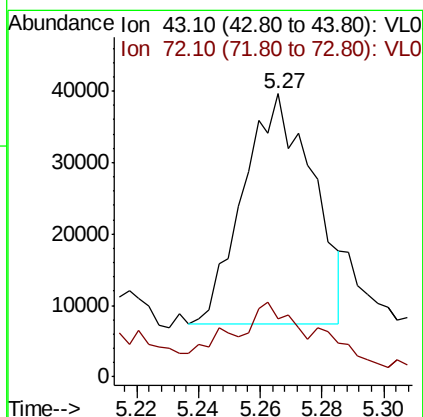
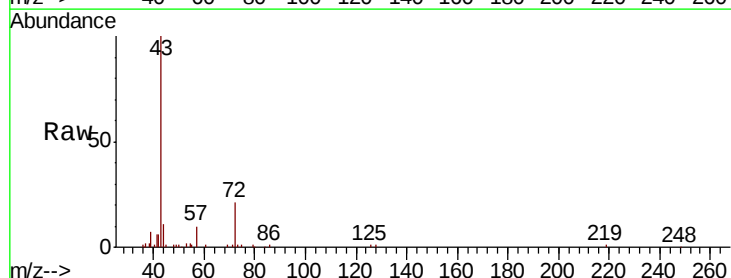
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 ClientSampleId :

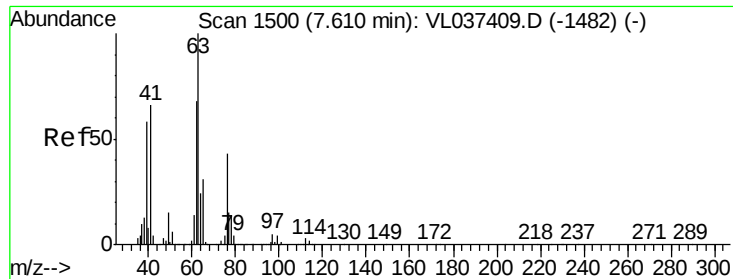
Tot Ion:114 Resp: 3941411
 Ion Ratio Lower Upper
 114 100
 63 24.1 19.4 29.2
 88 18.1 14.2 21.4



#34
 2-Butanone
 Concen: 0.308 ppbv
 RT: 5.27 min Scan# 771
 Delta R.T. 0.02 min
 Lab File: VL037420.D
 Acq: 12 Aug 2021 19:24

Tgt Ion: 43 Resp: 50121
 Ion Ratio Lower Upper
 43 100
 72 54.5 17.7 26.5#

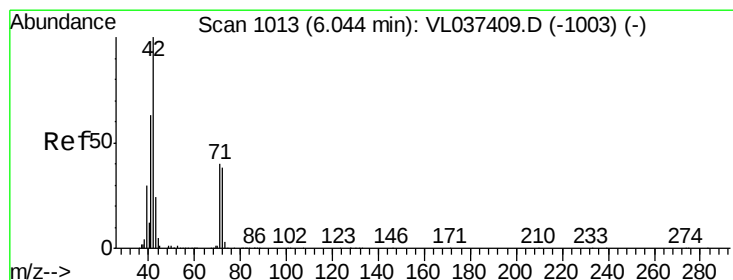
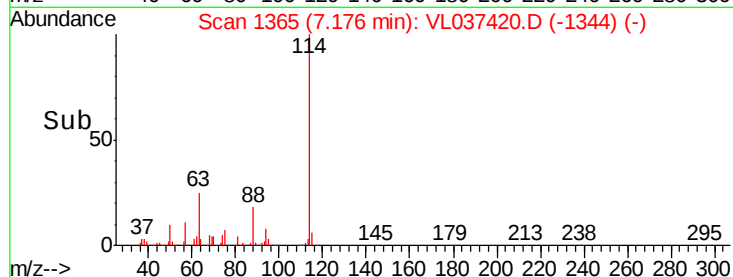
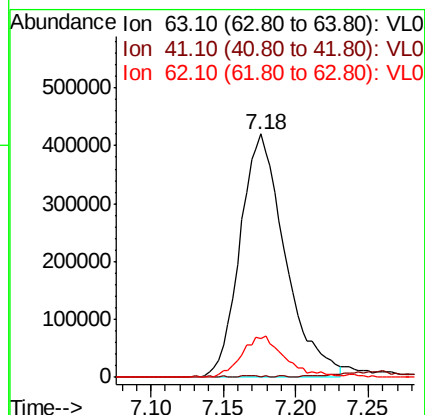
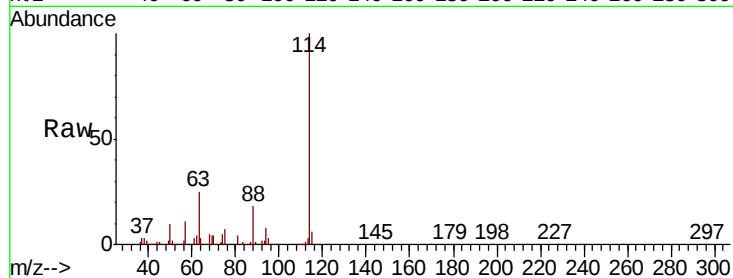




#39
 1,2-Dichloropropane
 Concen: 7.196 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.43 min
 Lab File: VL037420.D
 Acq: 12 Aug 2021 19:24

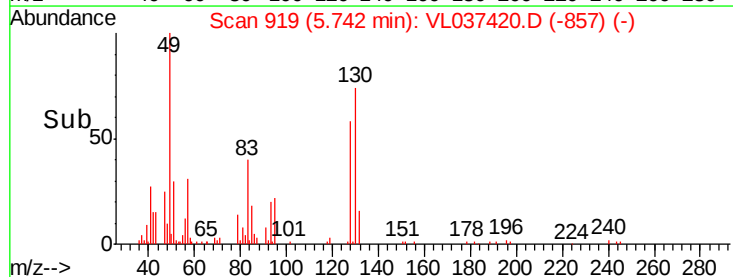
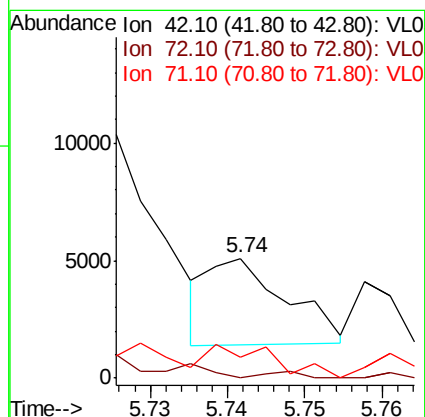
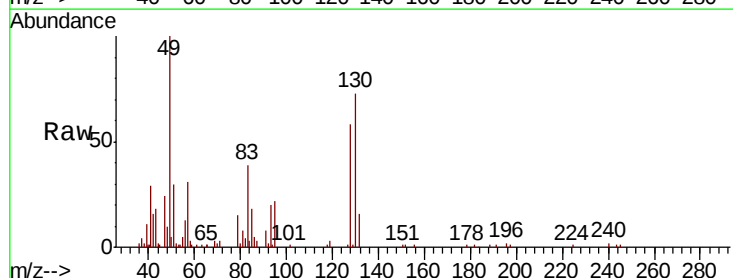
Instrument :
 MSVOA_L
 ClientSampleId :

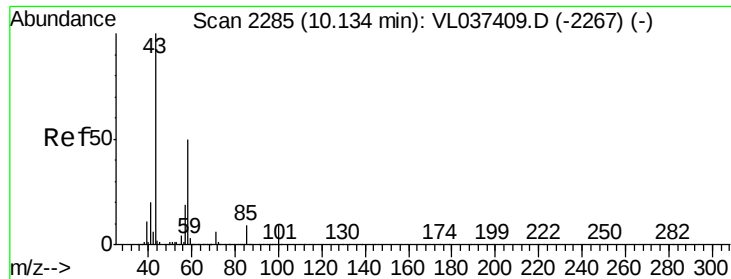
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.1	53.0	79.6#
62	16.0	54.5	81.7#



#41
 Tetrahydrofuran
 Concen: 0.035 ppbv
 RT: 5.74 min Scan# 919
 Delta R.T. -0.30 min
 Lab File: VL037420.D
 Acq: 12 Aug 2021 19:24

Tgt Ion	Ratio	Lower	Upper
42	100		
72	8.8	33.5	50.3#
71	0.0	32.6	48.8#

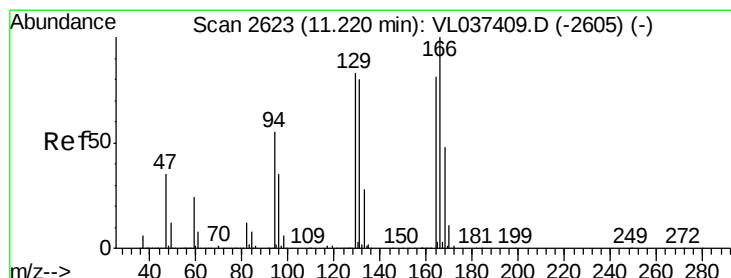
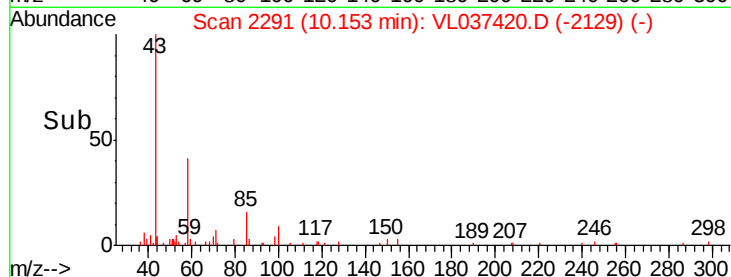
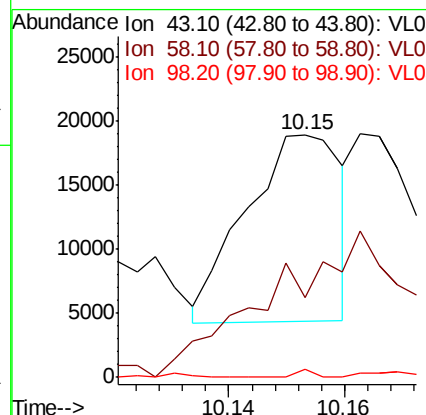
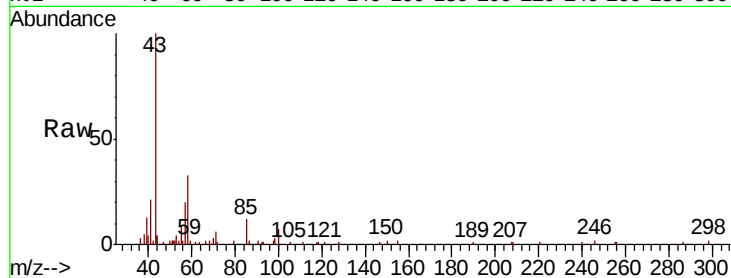




#51
2-Hexanone
Concen: 0.172 ppbv
RT: 10.15 min Scan# 2291
Delta R.T. 0.02 min
Lab File: VL037420.D
Acq: 12 Aug 2021 19:24

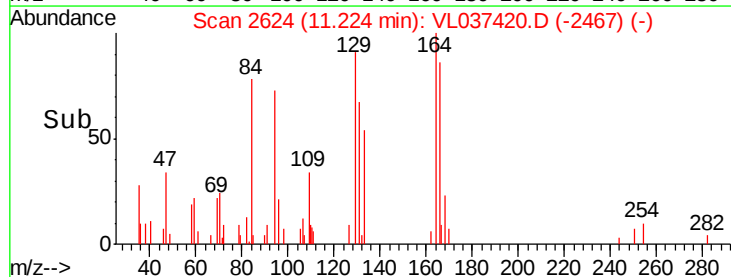
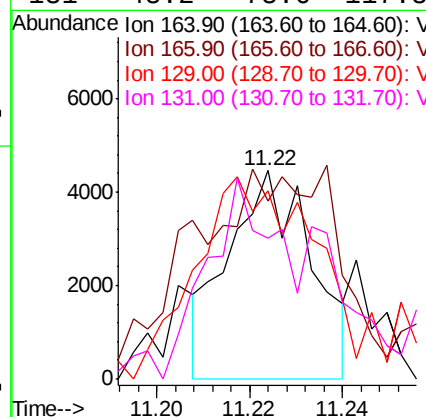
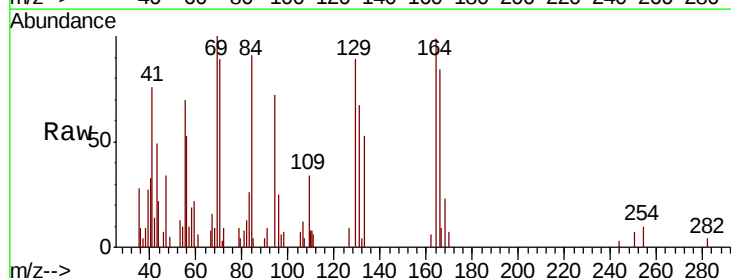
Instrument :
MSVOA_L
ClientSampled :

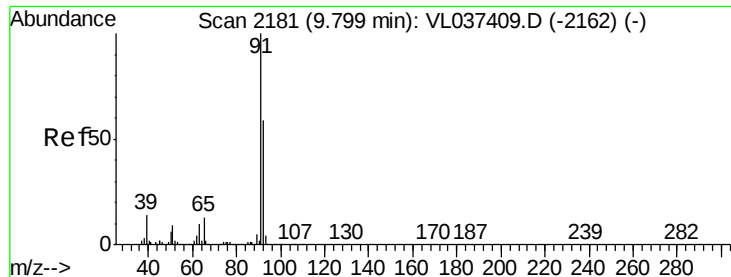
Tot Ion: 43 Resp: 16613
Ion Ratio Lower Upper
43 100
58 0.0 39.9 59.9#
98 4.3 0.2 0.2#



#52
Tetrachloroethene
Concen: 0.039 ppbv
RT: 11.22 min Scan# 2624
Delta R.T. 0.00 min
Lab File: VL037420.D
Acq: 12 Aug 2021 19:24

Tgt Ion: 164 Resp: 5500
Ion Ratio Lower Upper
164 100
166 69.9 98.6 147.8#
129 81.5 82.0 123.0#
131 48.2 78.6 117.8#





#53

Toluene

Concen: 0.627 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. 0.01 min

Lab File: VL037420.D

Acq: 12 Aug 2021 19:24

Instrument :

MSVOA_L

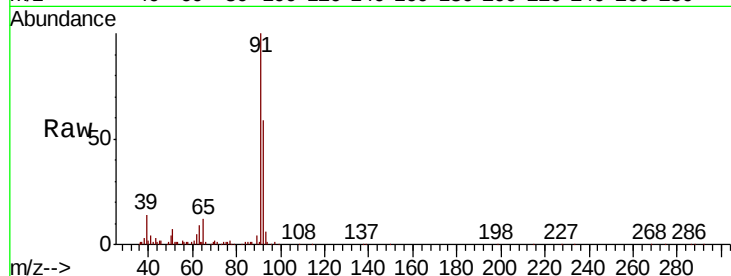
ClientSampleId :

Tot Ion: 91 Resp: 237725

Ion Ratio Lower Upper

91 100

92 62.0 49.0 73.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

120000

100000

80000

60000

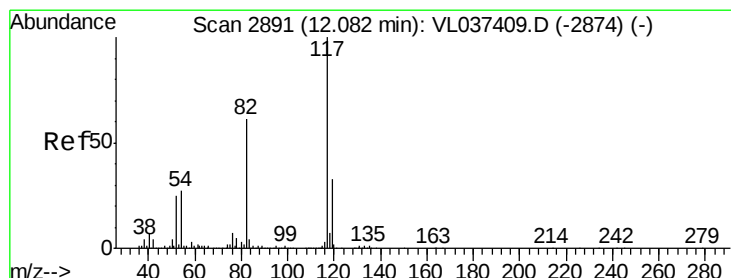
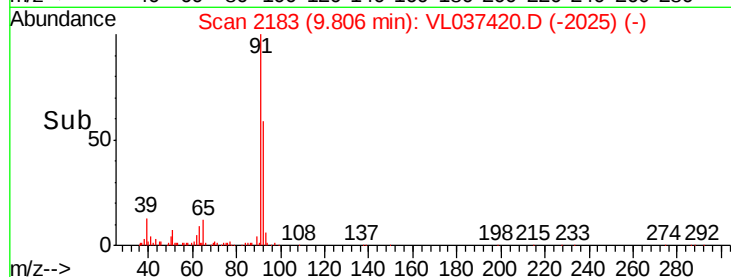
40000

20000

0

9.75 9.80 9.85

Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2892

Delta R.T. 0.00 min

Lab File: VL037420.D

Acq: 12 Aug 2021 19:24

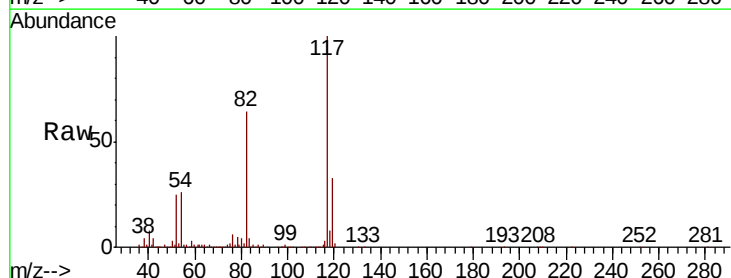
Tgt Ion: 117 Resp: 3377098

Ion Ratio Lower Upper

117 100

82 63.1 53.1 79.7

119 34.1 28.0 42.0



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

1500000

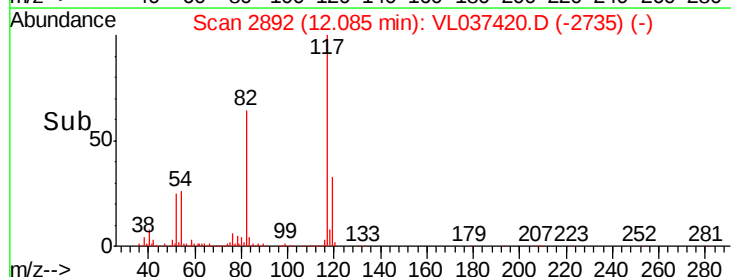
1000000

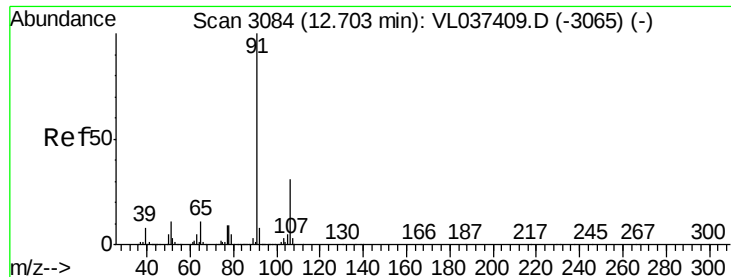
500000

0

12.00 12.10 12.20

Time-->





#58

Ethyl Benzene

Concen: 0.039 ppbv

RT: 12.71 min Scan# 3086

Delta R.T. 0.01 min

Lab File: VL037420.D

Acq: 12 Aug 2021 19:24

Instrument :

MSVOA_L

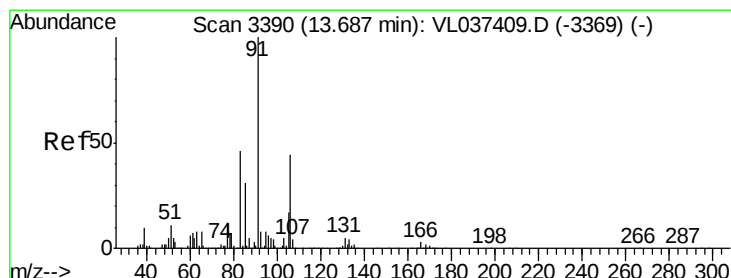
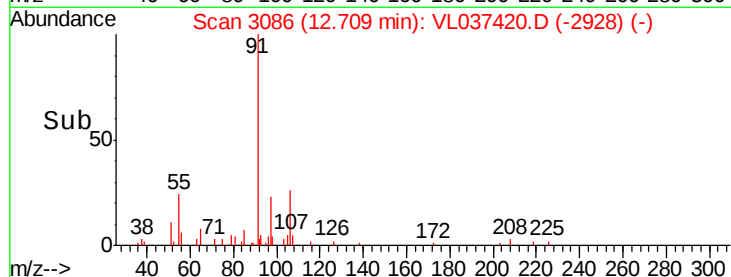
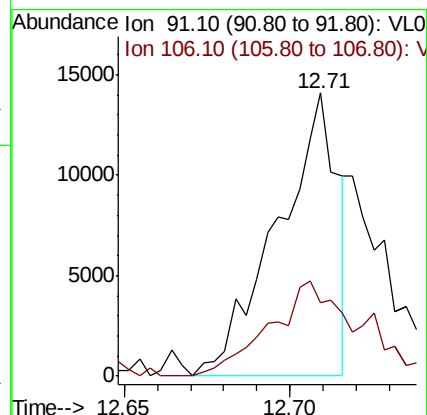
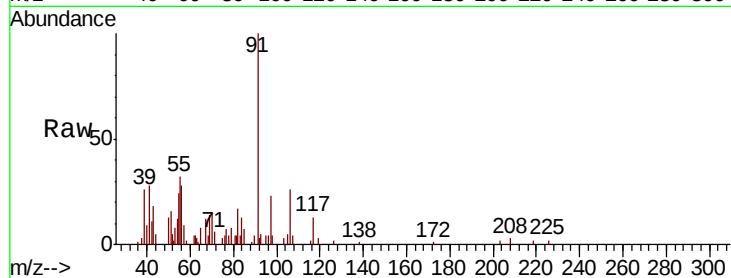
ClientSampleId :

Tot Ion: 91 Resp: 17854

Ion Ratio Lower Upper

91 100

106 25.7 24.7 37.1



#60

o-Xylene

Concen: 0.070 ppbv

RT: 13.69 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VL037420.D

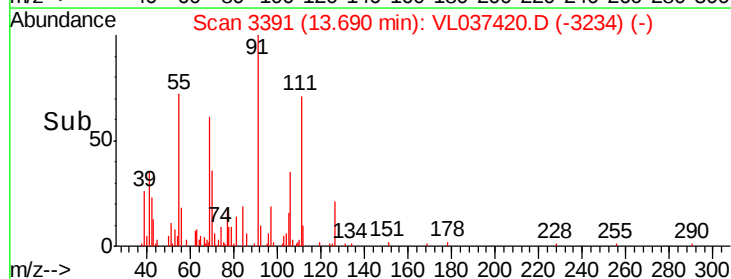
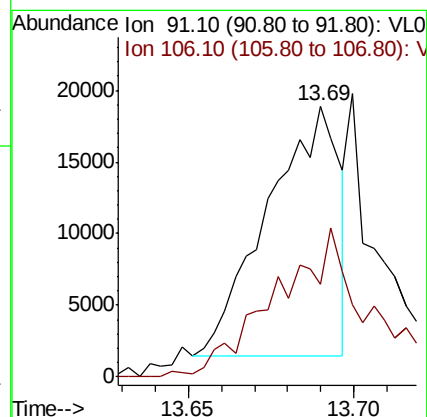
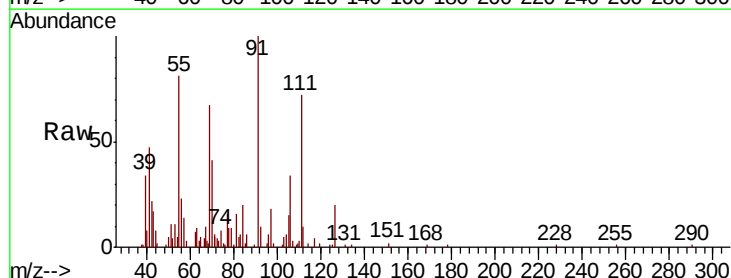
Acq: 12 Aug 2021 19:24

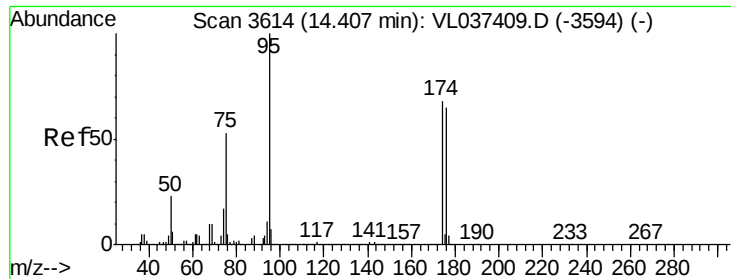
Tgt Ion: 91 Resp: 26224

Ion Ratio Lower Upper

91 100

106 78.7 24.1 72.2#

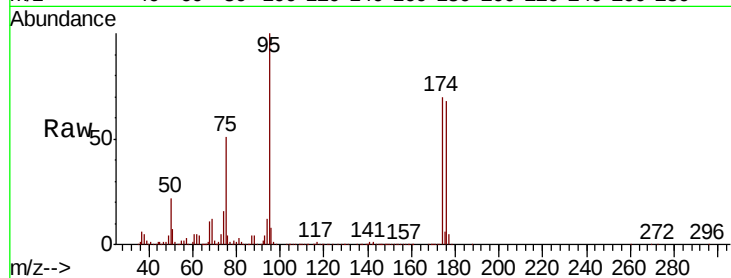




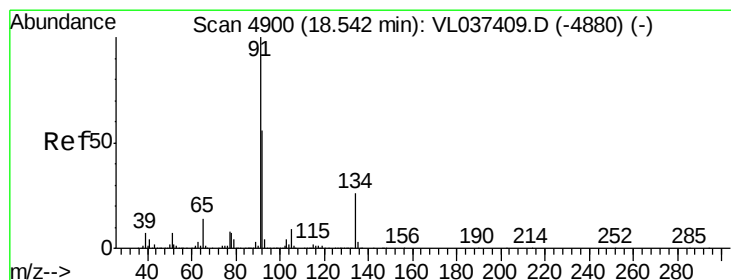
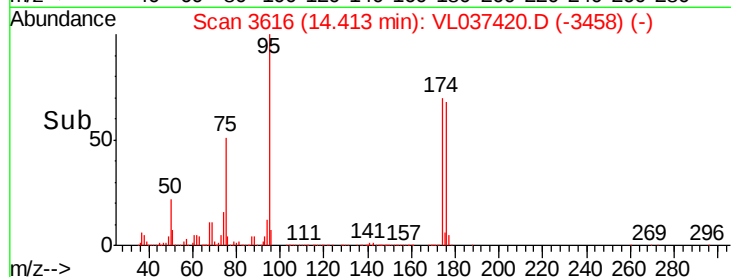
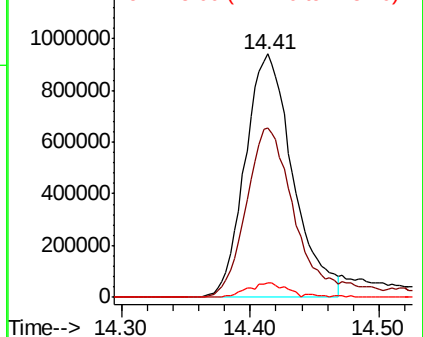
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.995 ppbv
 RT: 14.41 min Scan# 3616
 Delta R.T. 0.01 min
 Lab File: VL037420.D
 Acq: 12 Aug 2021 19:24

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 95 Resp: 2421427
 Ion Ratio Lower Upper
 95 100
 174 78.5 59.6 89.4
 175 5.6 4.3 6.5

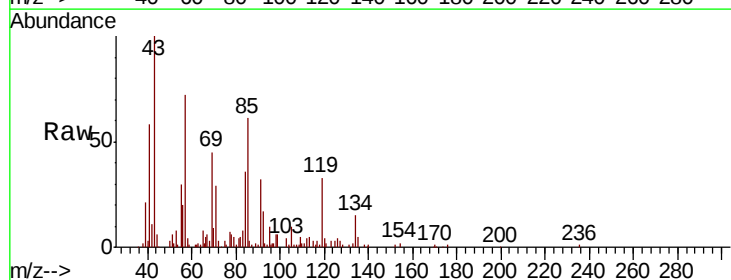


Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V

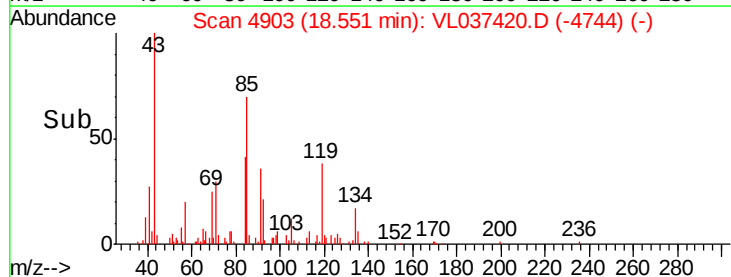
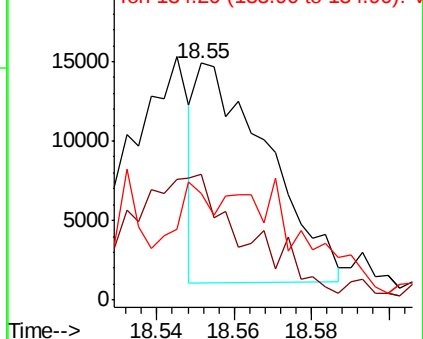


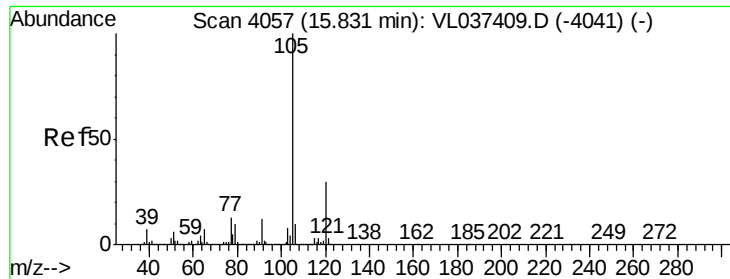
#70
 n-Butylbenzene
 Concen: 0.035 ppbv
 RT: 18.55 min Scan# 4903
 Delta R.T. 0.01 min
 Lab File: VL037420.D
 Acq: 12 Aug 2021 19:24

Tgt Ion: 91 Resp: 17724
 Ion Ratio Lower Upper
 91 100
 92 112.7 44.2 66.2#
 134 0.0 19.5 29.3#



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): V





#72

4-Ethyltoluene

Concen: 0.044 ppbv

RT: 15.84 min Scan# 4059

Delta R.T. 0.01 min

Lab File: VL037420.D

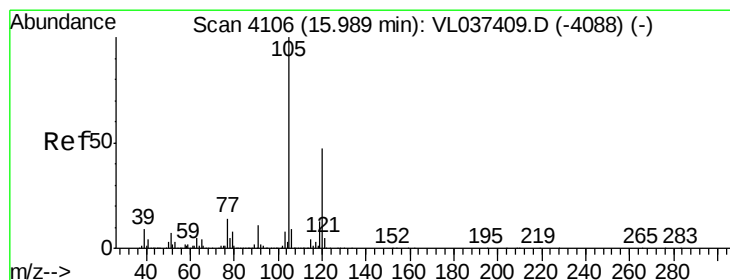
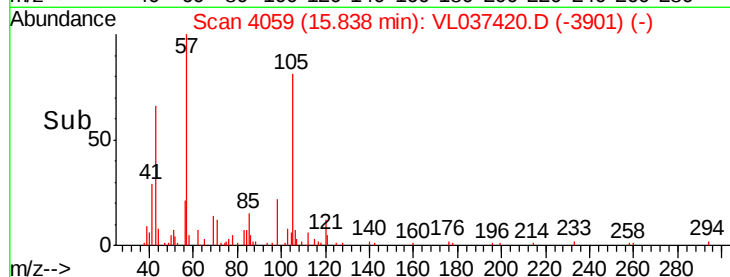
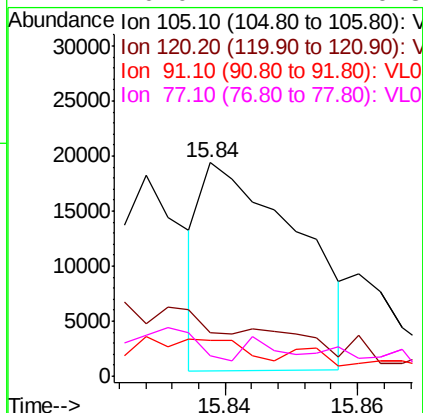
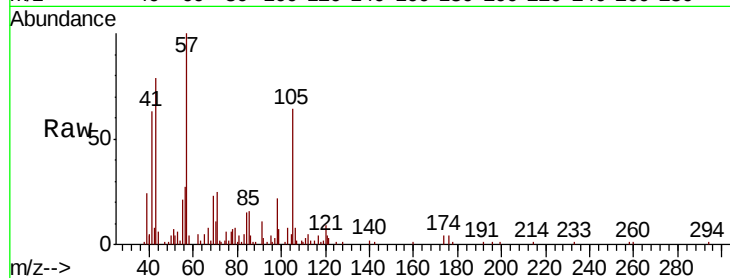
Acq: 12 Aug 2021 19:24

Instrument :

MSVOA_L

ClientSampled :

Tot Ion:	105	Resp:	19025
Ion	Ratio	Lower	Upper
105	100		
120	0.0	25.0	37.4#
91	0.0	11.2	16.8#
77	0.0	11.2	16.8#



#73

1,3,5-Trimethylbenzene

Concen: 0.043 ppbv

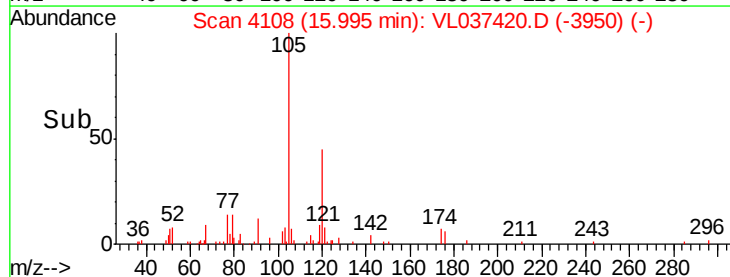
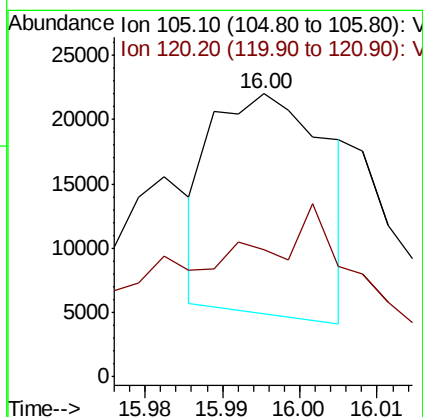
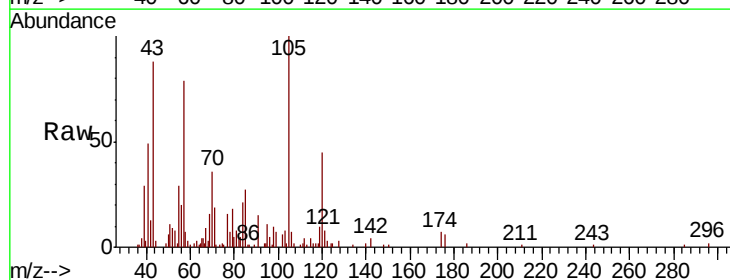
RT: 16.00 min Scan# 4108

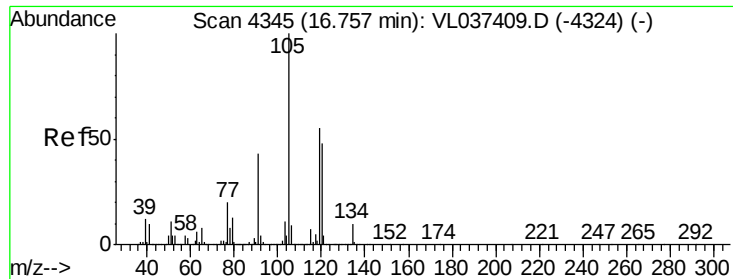
Delta R.T. 0.01 min

Lab File: VL037420.D

Acq: 12 Aug 2021 19:24

Tgt Ion:	105	Resp:	17609
Ion	Ratio	Lower	Upper
105	100		
120	19.0	37.4	56.0#





#74

1,2,4-Trimethylbenzene

Concen: 0.487 ppbv

RT: 16.76 min Scan# 4346

Delta R.T. 0.00 min

Lab File: VL037420.D

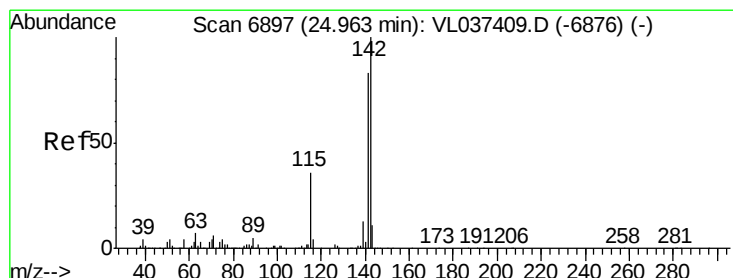
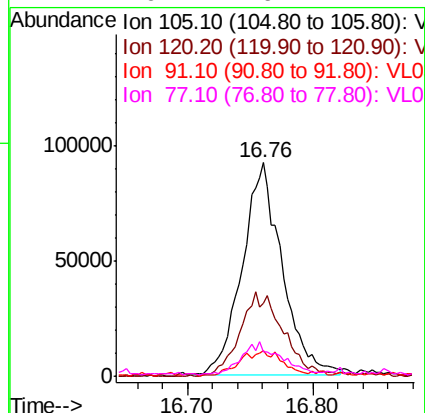
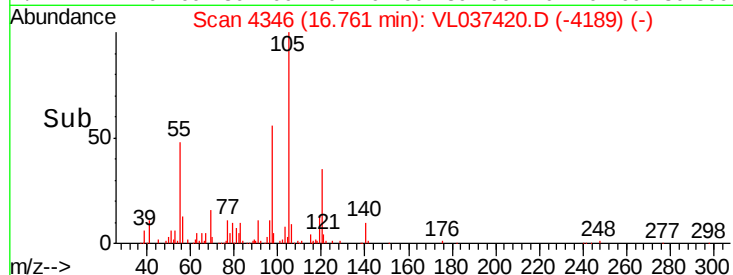
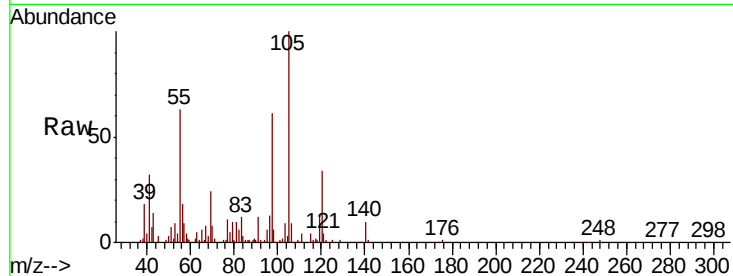
Acq: 12 Aug 2021 19:24

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:	105	Resp:	204634
Ion Ratio	Lower	Upper	
105	100		
120	34.2	38.2	57.2#
91	11.1	35.4	53.2#
77	10.2	16.2	24.2#



#80

Naphthalene, 2-methyl-

Concen: 0.042 ppbv

RT: 24.96 min Scan# 6897

Delta R.T. 0.00 min

Lab File: VL037420.D

Acq: 12 Aug 2021 19:24

Tgt Ion:	142	Resp:	2002
Ion Ratio	Lower	Upper	
142	100		
141	87.0	68.7	103.1
115	8.3	32.7	49.1#

