

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081221\
 Data File : VL037436.D
 Acq On : 13 Aug 2021 6:15
 Operator : SY/AP
 Sample : M3211-05RE
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-5RE

Manual Integrations
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 8/13/2021 3:02:58 PM

Quant Time: Aug 13 11:37:40 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 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	5.66	49	1265561	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3783988	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3053615	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2164922	9.88	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	40026	0.207	ppbv	90
3) Chlorodifluoromethane	2.99	51	78633	0.316	ppbv #	87
4) Chloromethane	3.15	50	36505	0.409	ppbv #	87
9) Propene	3.02	41	66166m	0.793	ppbv	
11) Trichlorofluoromethane	3.95	101	43761m	0.209	ppbv	
13) Ethanol	3.61	45	417891m	46.921	ppbv	
15) Acetone	3.85	43	2588297	19.285	ppbv	97
19) Isopropyl Alcohol	3.98	45	217393m	2.783	ppbv	
20) Methylene Chloride	4.34	84	6925839	97.590	ppbv	95
26) Hexane	5.69	57	6065057	36.742	ppbv #	47
30) Cyclohexane	7.13	84	34764m	0.256	ppbv	
34) 2-Butanone	5.25	43	78318	0.501	ppbv #	81
35) Carbon Tetrachloride	7.01	117	11858m	0.051	ppbv	
36) Benzene	6.89	78	61285m	0.192	ppbv	
44) 2,2,4-Trimethylpentane	7.87	57	78118m	0.146	ppbv	
52) Tetrachloroethene	11.22	164	3202m	0.024	ppbv	
53) Toluene	9.80	91	146664	0.403	ppbv	94
58) Ethyl Benzene	12.70	91	62990m	0.152	ppbv	
59) m/p-Xylene	12.96	91	175716m	0.483	ppbv	
60) o-Xylene	13.69	91	49325m	0.146	ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	76406	0.201	ppbv #	72

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

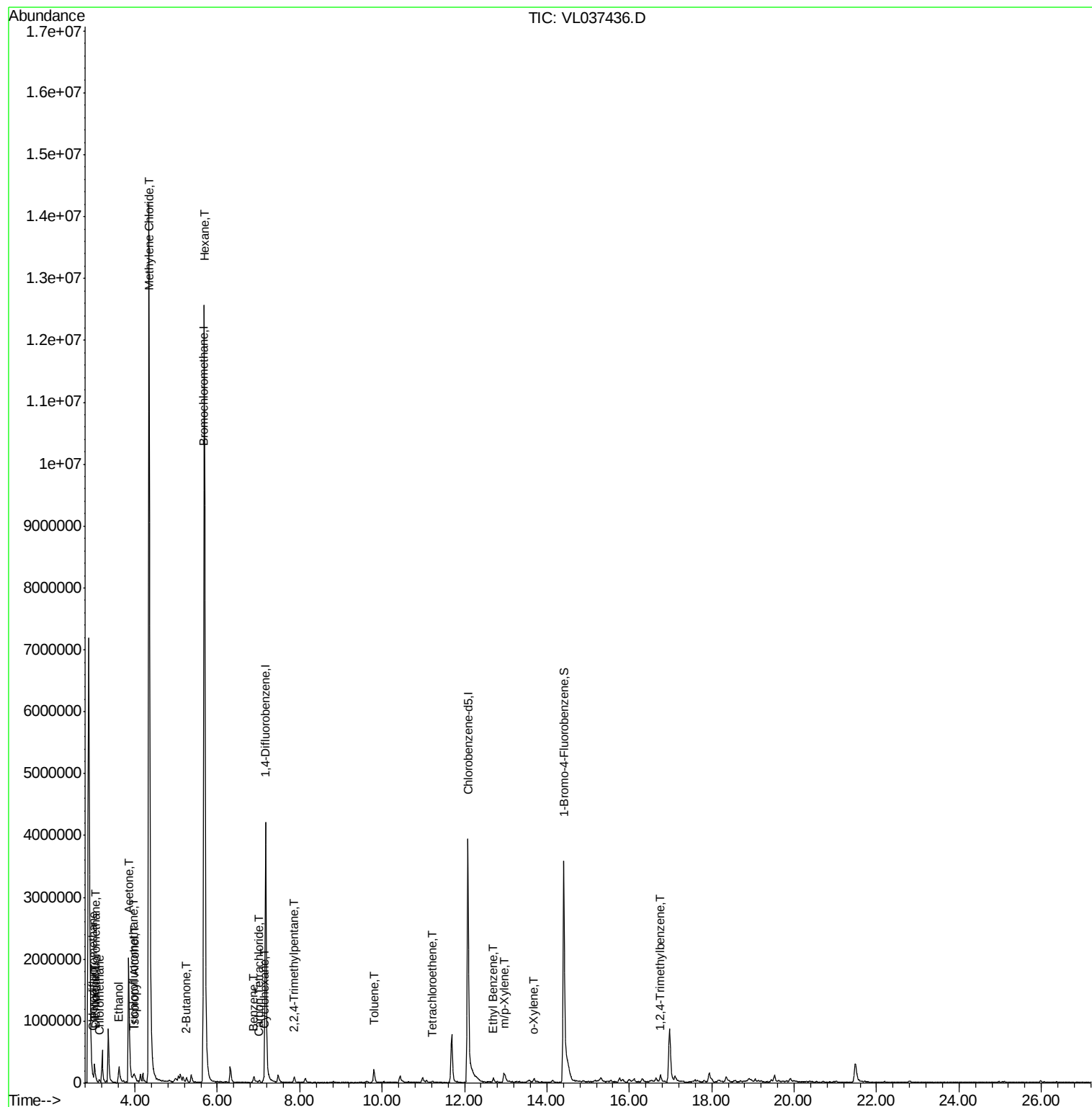
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081221\
Data File : VL037436.D
Acq On : 13 Aug 2021 6:15
Operator : SY/AP
Sample : M3211-05RE
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

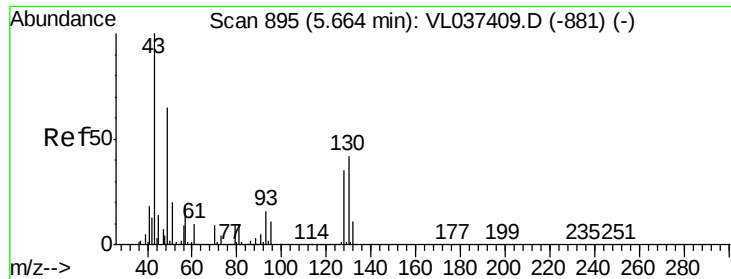
Instrument :
MSVOA_L
ClientSampleId :
SVP-5RE

Manual Integrations
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Quant Time: Aug 13 11:37:40 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081221AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Aug 13 01:37:35 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.00 min

Lab File: VL037436.D

Acq: 13 Aug 2021 6:15

Instrument :

MSVOA_L

ClientSampled :

SVP-5RE

Tot Ion: 49 Resp: 1265561

Ion Ratio Lower Upper

49 100

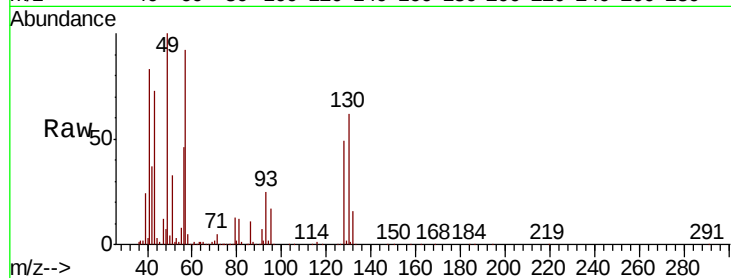
128 52.6 27.9 83.6

130 67.1 34.6 103.8

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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

800000

600000

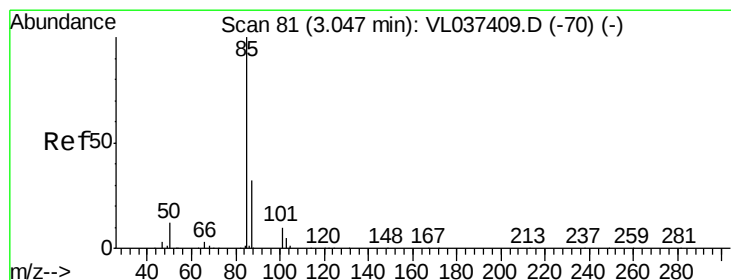
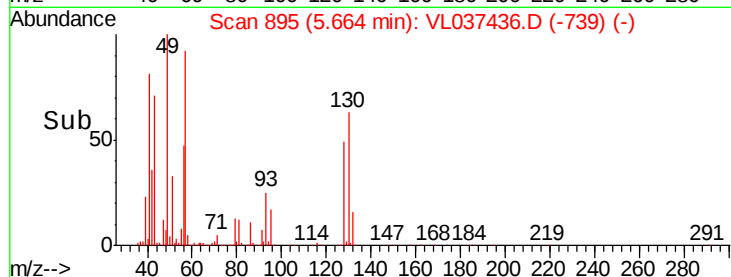
400000

200000

0

5.60 5.65 5.70 5.75

Time-->



#2

Dichlorodifluoromethane

Concen: 0.207 ppbv

RT: 3.05 min Scan# 81

Delta R.T. 0.00 min

Lab File: VL037436.D

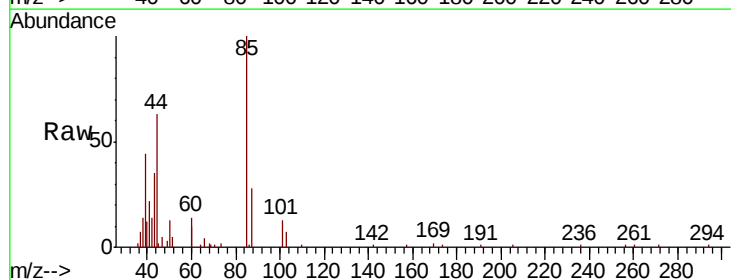
Acq: 13 Aug 2021 6:15

Tgt Ion: 85 Resp: 40026

Ion Ratio Lower Upper

85 100

87 26.6 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

30000

25000

20000

15000

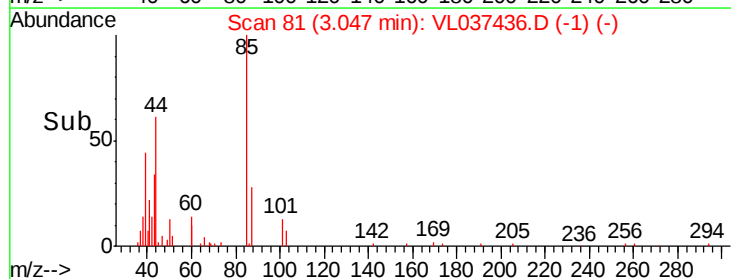
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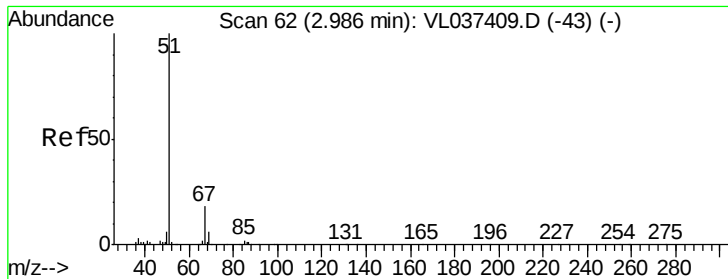
5000

0

3.02 3.04 3.06 3.08 3.10

Time-->





#3

Chlorodifluoromethane

Concen: 0.316 ppbv

RT: 2.99 min Scan# 62

Delta R.T. 0.00 min

Lab File: VL037436.D

Acq: 13 Aug 2021 6:15

Instrument :

MSVOA_L

ClientSampleId :

SVP-5RE

Tot Ion: 51 Resp: 78633

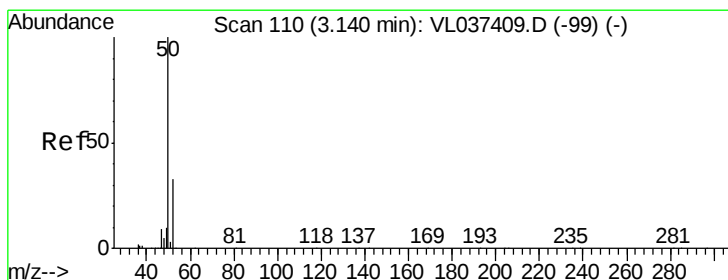
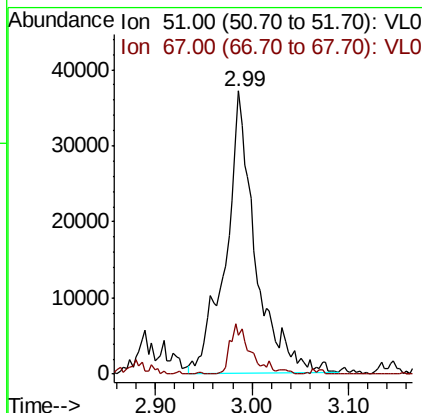
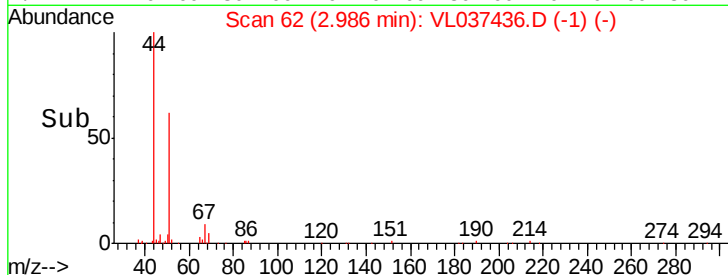
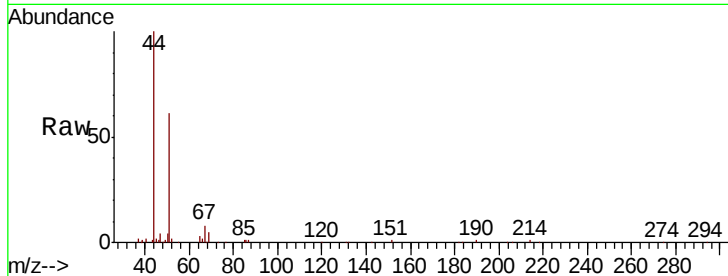
Ion Ratio Lower Upper

51 100

67 12.4 14.7 22.1#

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#4

Chloromethane

Concen: 0.409 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.01 min

Lab File: VL037436.D

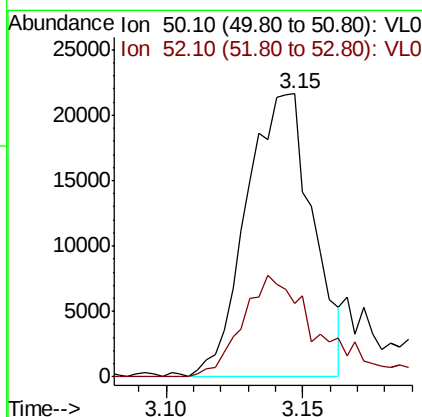
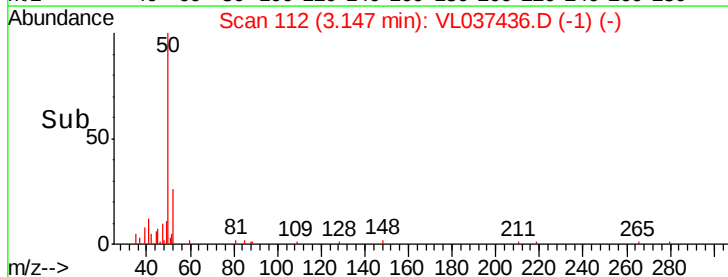
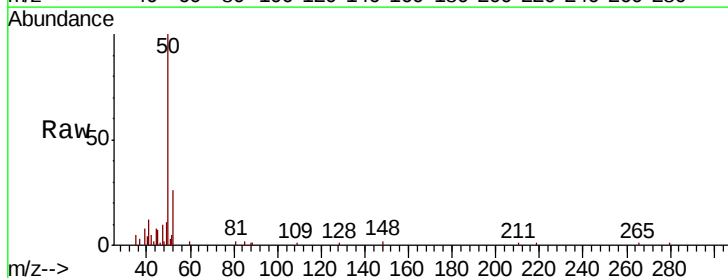
Acq: 13 Aug 2021 6:15

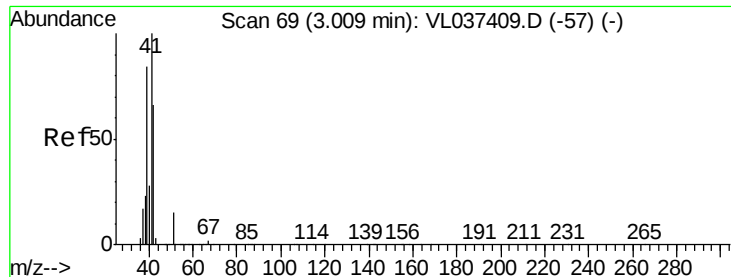
Tgt Ion: 50 Resp: 36505

Ion Ratio Lower Upper

50 100

52 25.4 26.2 39.4#





#9

Propene

Concen: 0.793 ppbv m

RT: 3.02 min Scan# 73

Delta R.T. 0.01 min

Lab File: VL037436.D

Acq: 13 Aug 2021 6:15

Instrument :

MSVOA_L

ClientSampleId :

SVP-5RE

Tot Ion: 41 Resp: 66166

Ion Ratio Lower Upper

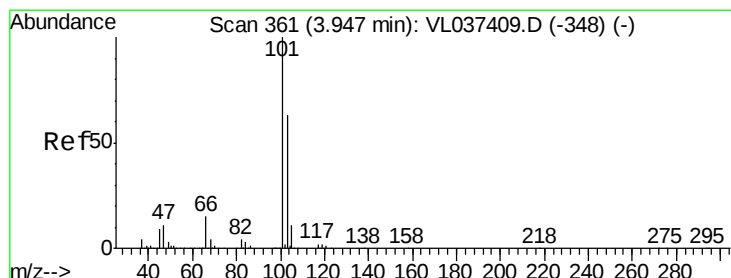
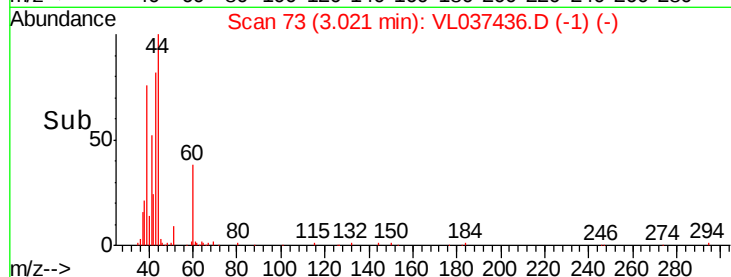
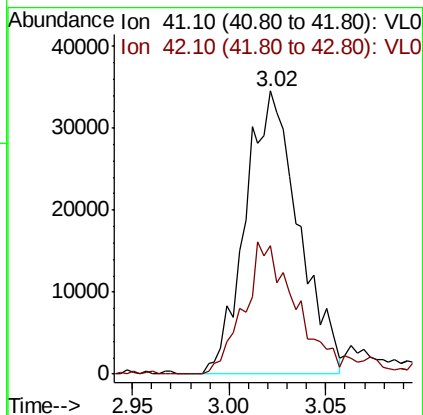
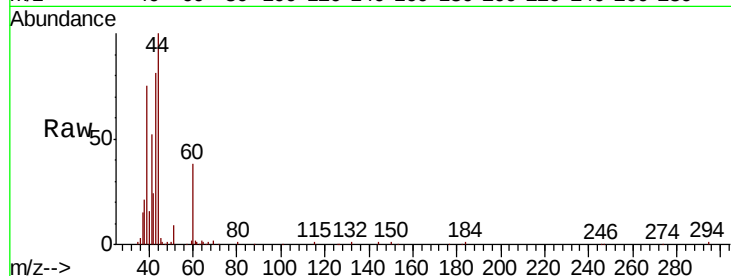
41 100

42 49.6 53.8 80.8#

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#11

Trichlorofluoromethane

Concen: 0.209 ppbv m

RT: 3.95 min Scan# 362

Delta R.T. 0.00 min

Lab File: VL037436.D

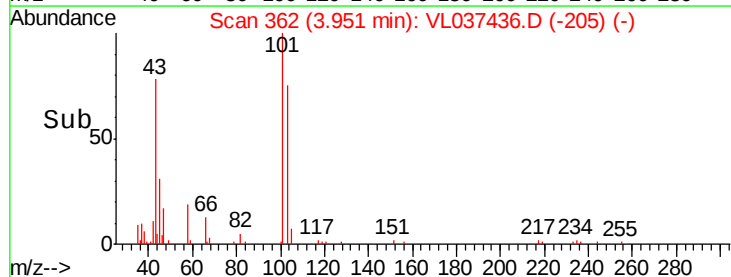
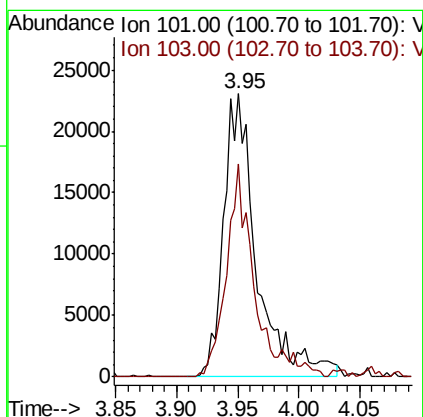
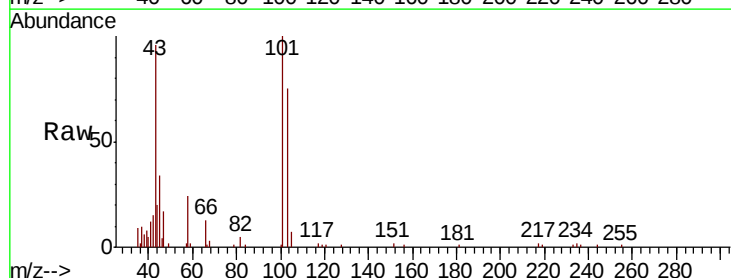
Acq: 13 Aug 2021 6:15

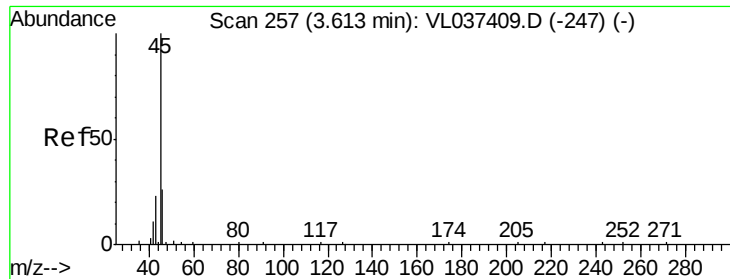
Tgt Ion: 101 Resp: 43761

Ion Ratio Lower Upper

101 100

103 75.3 50.2 75.4





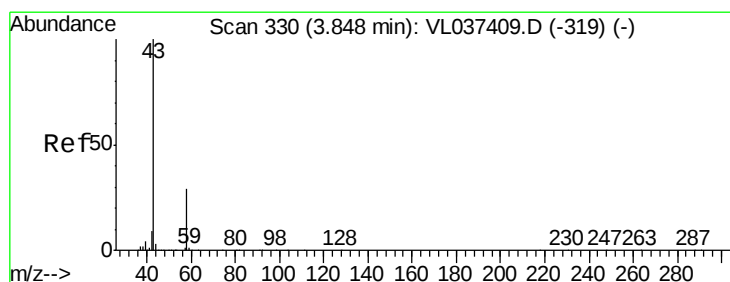
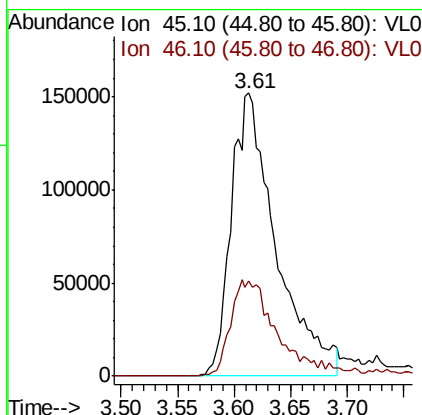
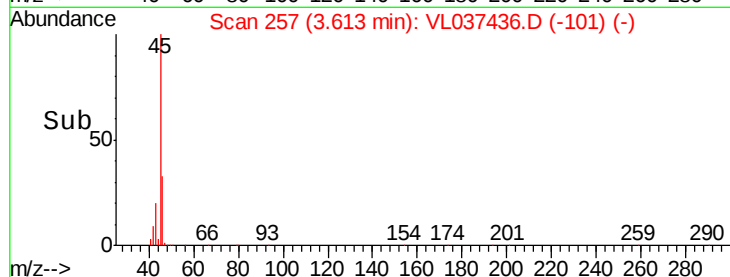
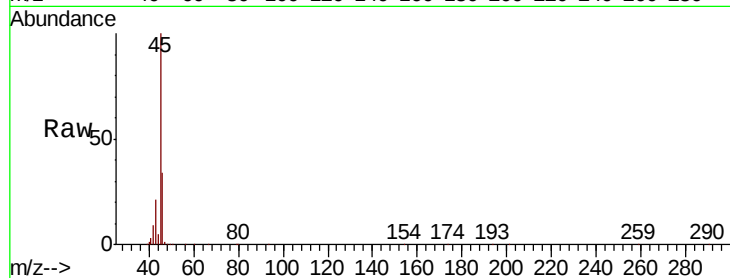
#13
Ethanol
Concen: 46.921 ppbv m
RT: 3.61 min Scan# 257
Delta R.T. 0.00 min
Lab File: VL037436.D
Acq: 13 Aug 2021 6:15

Instrument :
MSVOA_L
ClientSampleId :
SVP-5RE

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

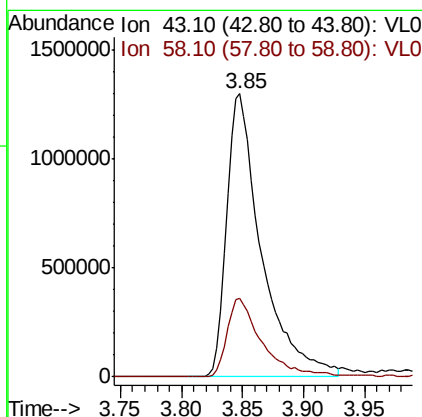
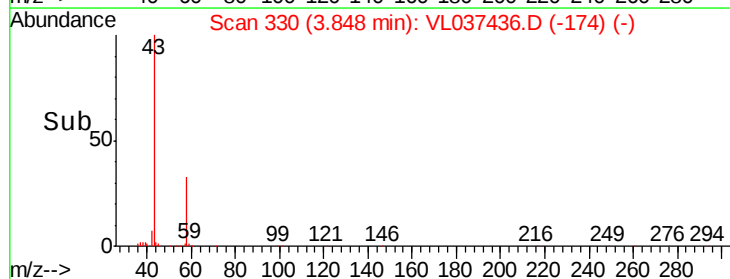
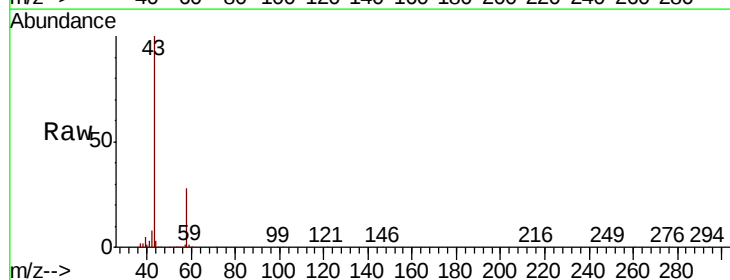
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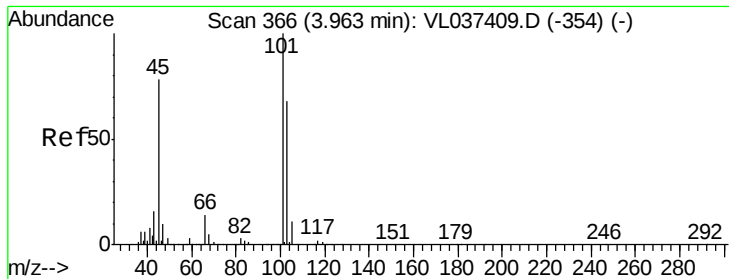
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#15
Acetone
Concen: 19.285 ppbv
RT: 3.85 min Scan# 330
Delta R.T. 0.00 min
Lab File: VL037436.D
Acq: 13 Aug 2021 6:15

Tgt Ion	Ratio	Lower	Upper
43	100		
58	28.8	24.4	36.6





#19

Isopropyl Alcohol

Concen: 2.783 ppbv m

RT: 3.98 min Scan# 371

Delta R.T. 0.02 min

Lab File: VL037436.D

Acq: 13 Aug 2021 6:15

Instrument :

MSVOA_L

ClientSampled :

SVP-5RE

Tot Ion: 45 Resp: 217393

Ion Ratio Lower Upper

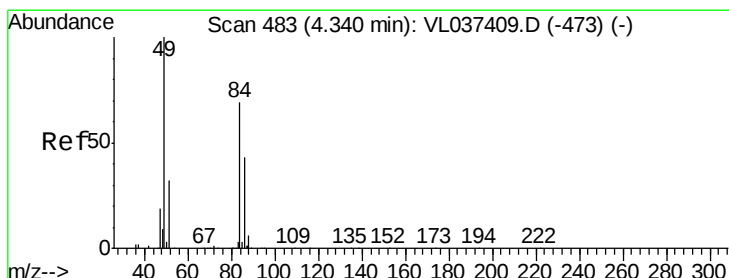
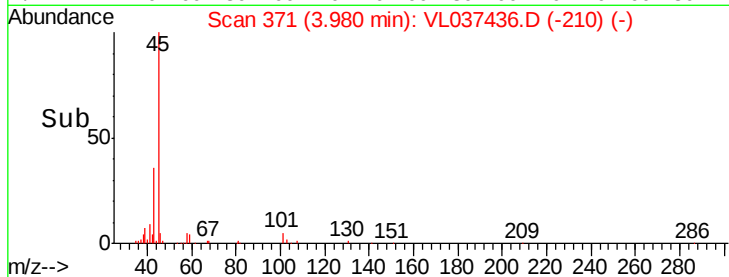
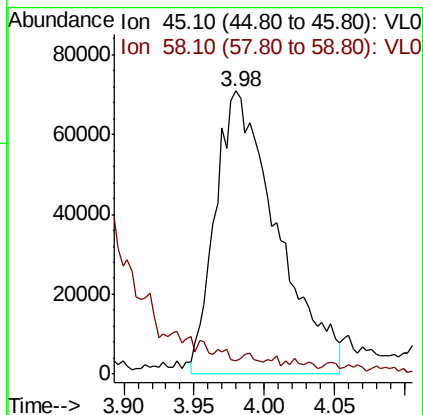
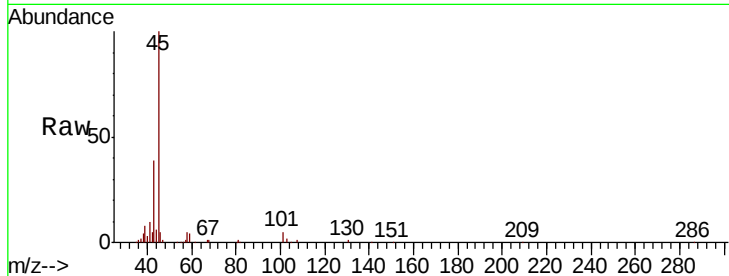
45 100

58 0.0 2.2 3.4#

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#20

Methylene Chloride

Concen: 97.590 ppbv

RT: 4.34 min Scan# 484

Delta R.T. 0.00 min

Lab File: VL037436.D

Acq: 13 Aug 2021 6:15

Tgt Ion: 84 Resp: 6925839

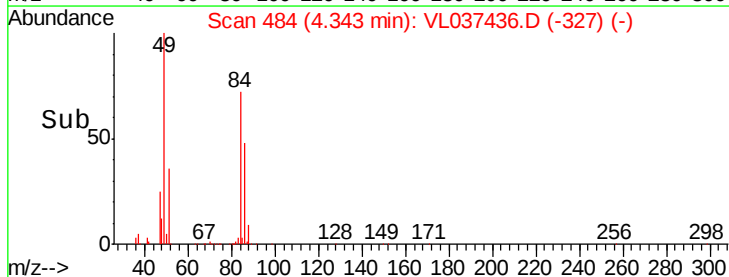
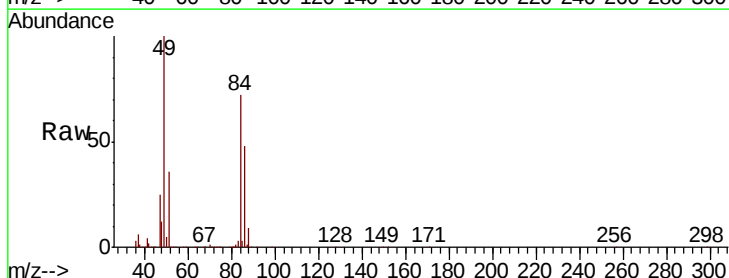
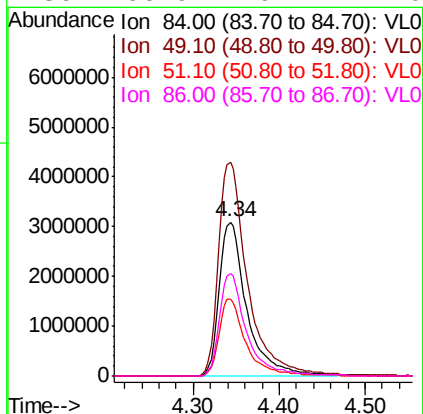
Ion Ratio Lower Upper

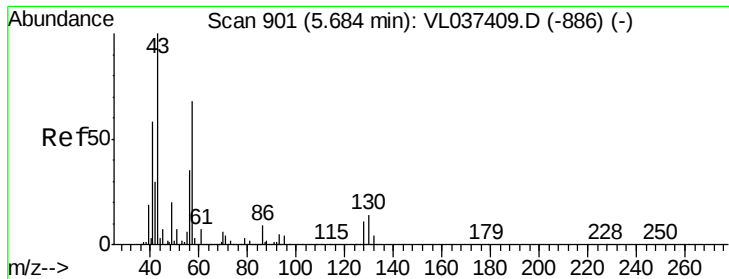
84 100

49 138.8 116.0 174.0

51 49.6 37.1 55.7

86 66.9 49.4 74.0





#26

Hexane

Concen: 36.742 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.00 min

Lab File: VL037436.D

Acq: 13 Aug 2021 6:15

Instrument :

MSVOA_L

ClientSampleId :

SVP-5RE

Tot Ion: 57 Resp: 6065057

Ion Ratio Lower Upper

57 100

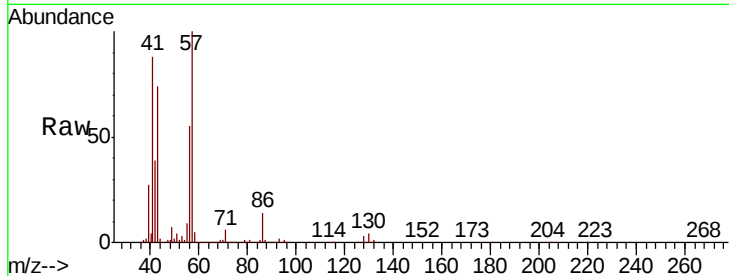
41 87.9 72.5 108.7

43 73.7 169.3 253.9#

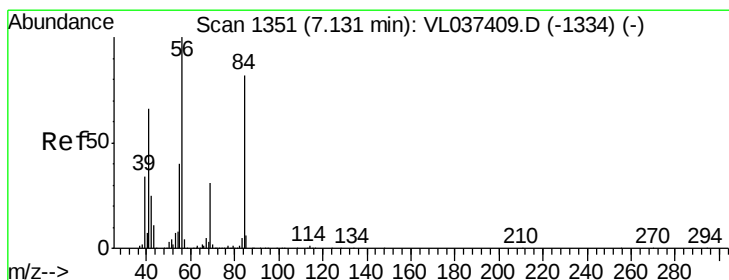
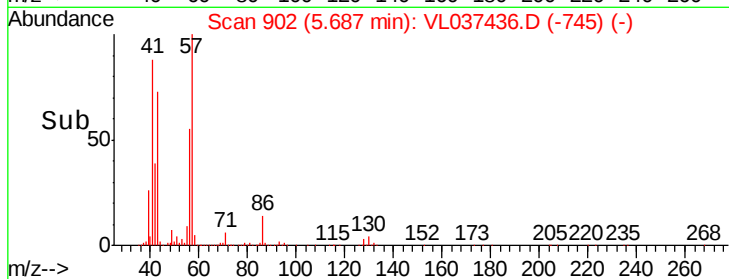
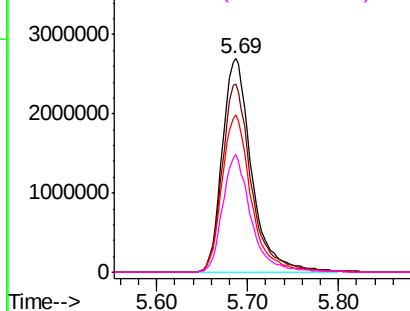
56 53.3 42.3 63.5

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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



#30

Cyclohexane

Concen: 0.256 ppbv m

RT: 7.13 min Scan# 1350

Delta R.T. -0.00 min

Lab File: VL037436.D

Acq: 13 Aug 2021 6:15

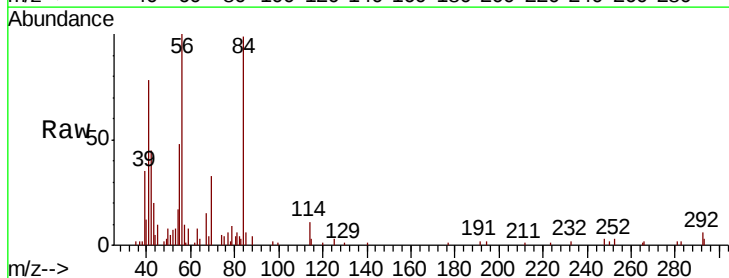
Tgt Ion: 84 Resp: 34764

Ion Ratio Lower Upper

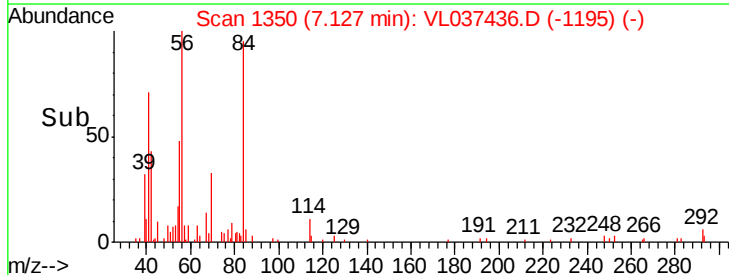
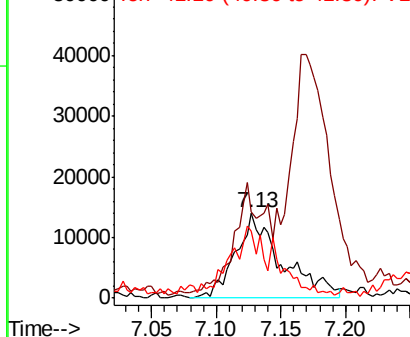
84 100

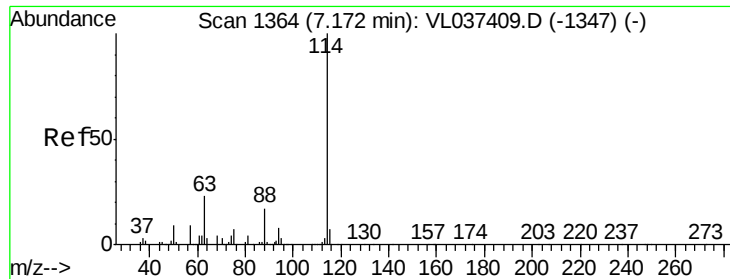
56 0.0 109.6 164.4#

41 72.0 66.6 99.8



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





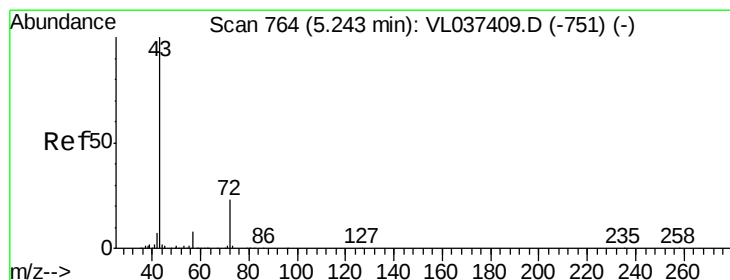
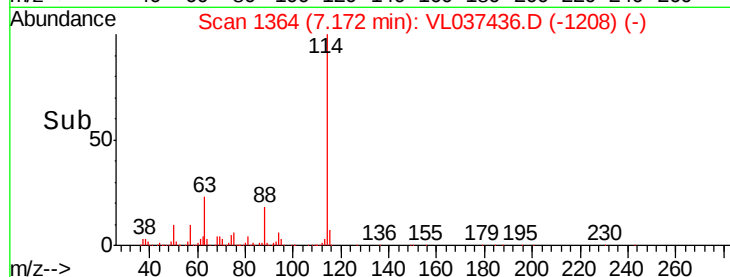
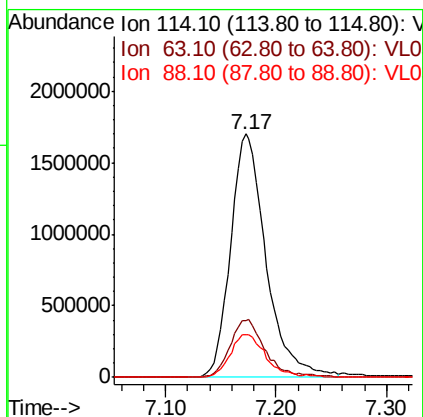
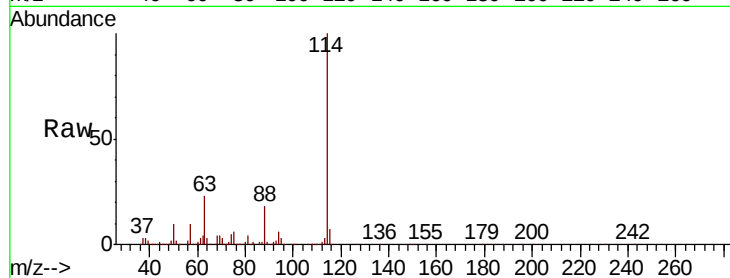
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. 0.00 min
 Lab File: VL037436.D
 Acq: 13 Aug 2021 6:15

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-5RE

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.0	19.4	29.2
88	18.2	14.2	21.4

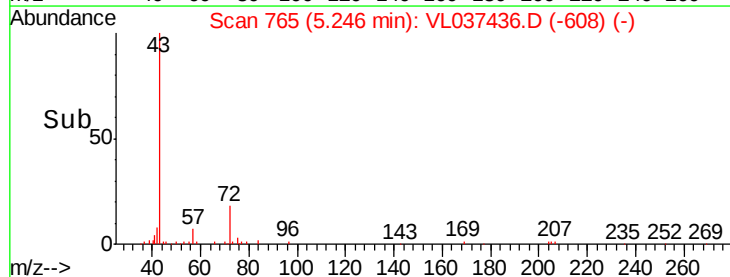
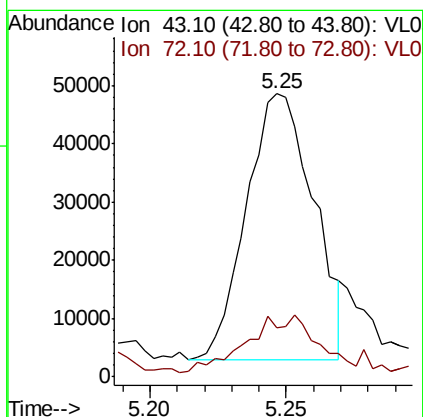
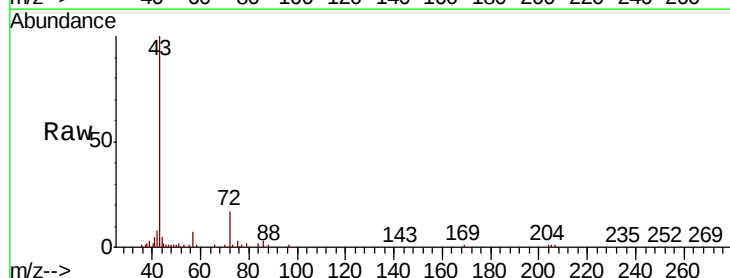
Manual Integrations
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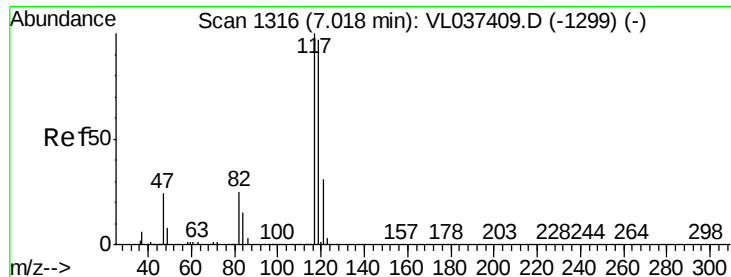
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#34
 2-Butanone
 Concen: 0.501 ppbv
 RT: 5.25 min Scan# 765
 Delta R.T. 0.00 min
 Lab File: VL037436.D
 Acq: 13 Aug 2021 6:15

Tgt Ion	Ratio	Lower	Upper
43	100		
72	31.3	17.7	26.5





#35

Carbon Tetrachloride

Concen: 0.051 ppbv m

RT: 7.01 min Scan# 1315

Delta R.T. -0.00 min

Lab File: VL037436.D

Acq: 13 Aug 2021 6:15

Instrument :

MSVOA_L

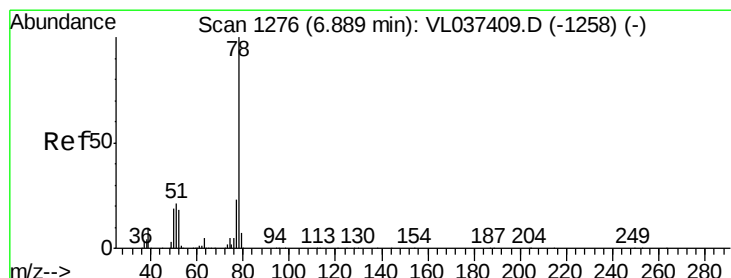
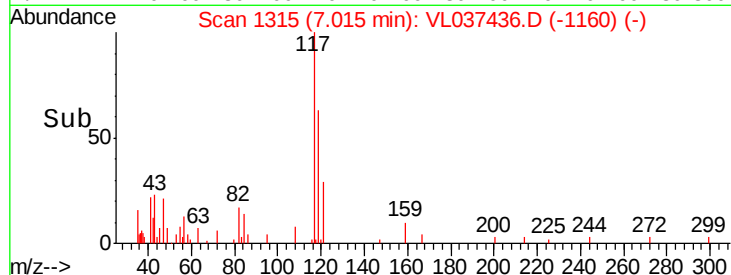
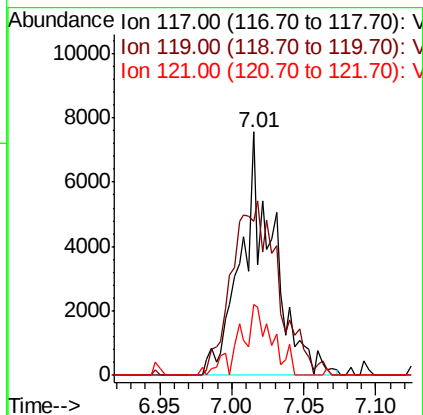
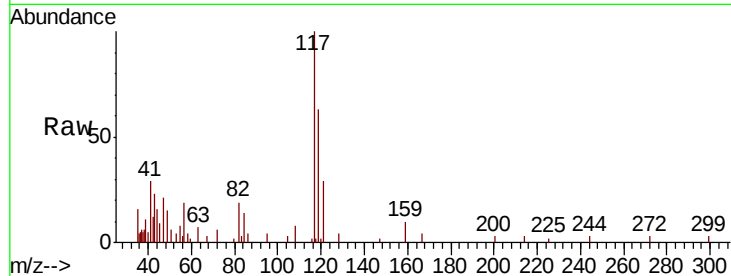
ClientSampleId :

SVP-5RE

Tot Ion	Ratio	Lower	Upper
117	100		
119	63.1	77.5	116.3#
121	29.3	24.7	37.1

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#36

Benzene

Concen: 0.192 ppbv m

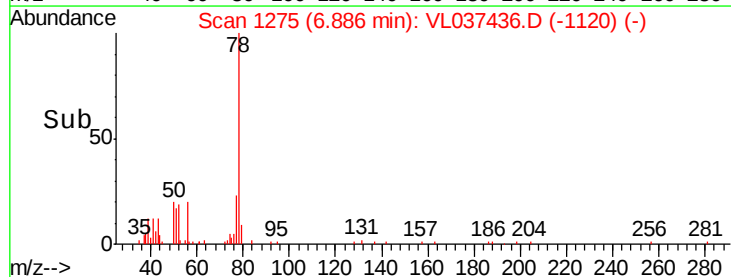
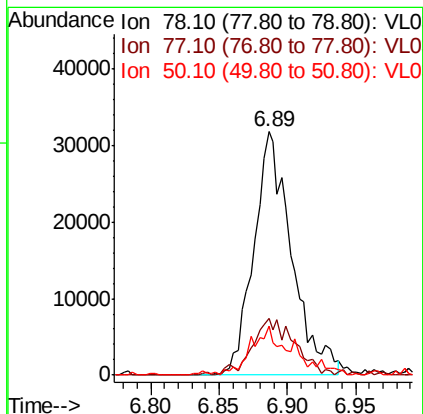
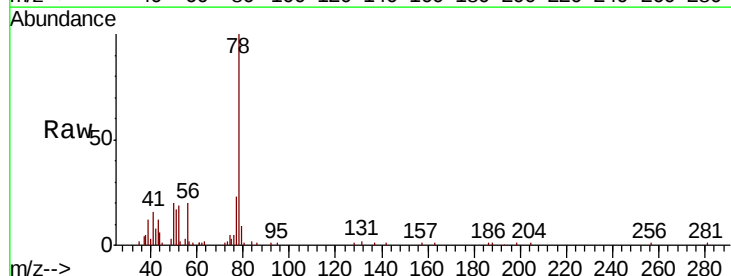
RT: 6.89 min Scan# 1275

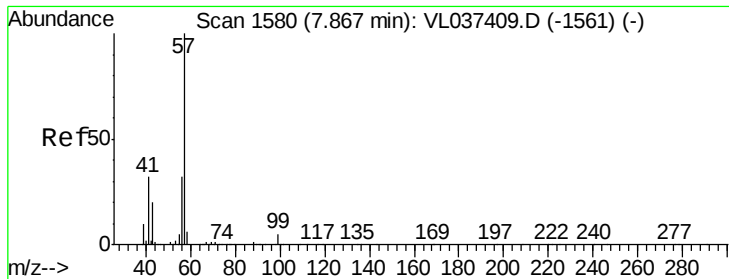
Delta R.T. -0.00 min

Lab File: VL037436.D

Acq: 13 Aug 2021 6:15

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.6	27.8
50	20.1	14.9	22.3





#44

2,2,4-Trimethylpentane

Concen: 0.146 ppbv m

RT: 7.87 min Scan# 1581

Delta R.T. 0.00 min

Lab File: VL037436.D

Acq: 13 Aug 2021 6:15

Instrument :

MSVOA_L

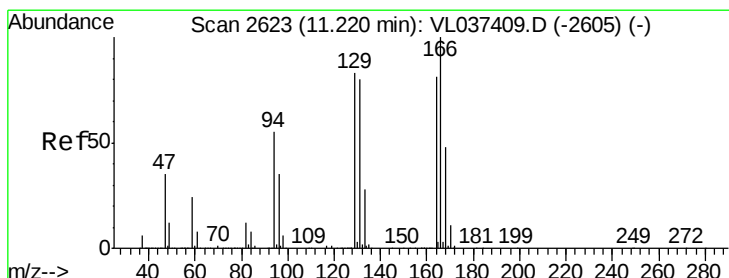
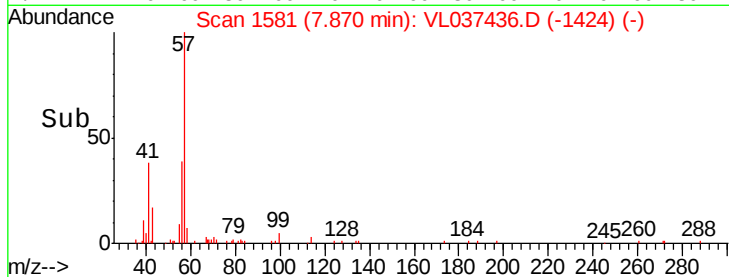
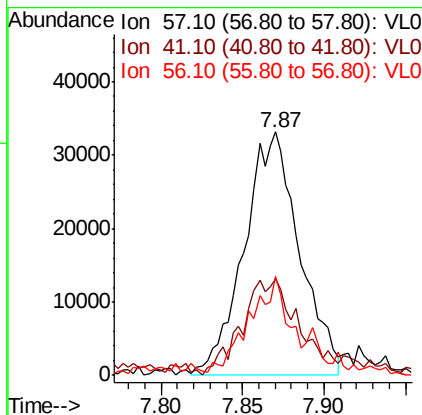
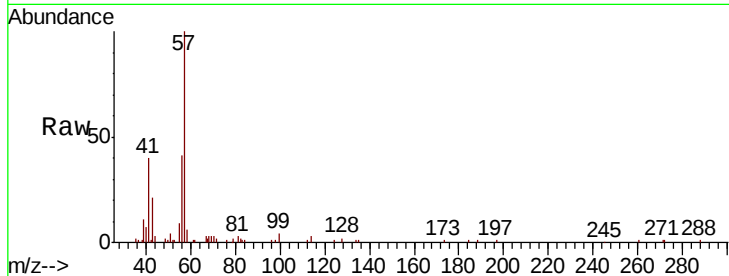
ClientSampleId :

SVP-5RE

Tot Ion	57	Resp	78118
Ion	Ratio	Lower	Upper
57	100		
41	42.9	26.4	39.6#
56	37.5	25.0	37.4#

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#52

Tetrachloroethene

Concen: 0.024 ppbv m

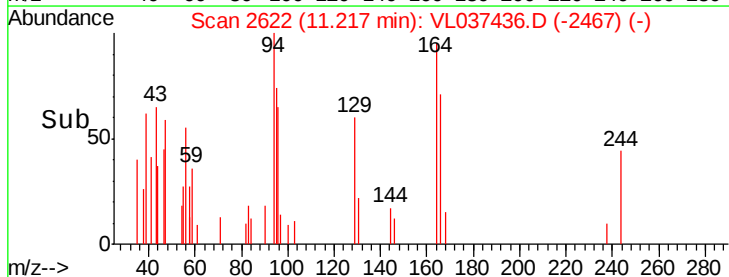
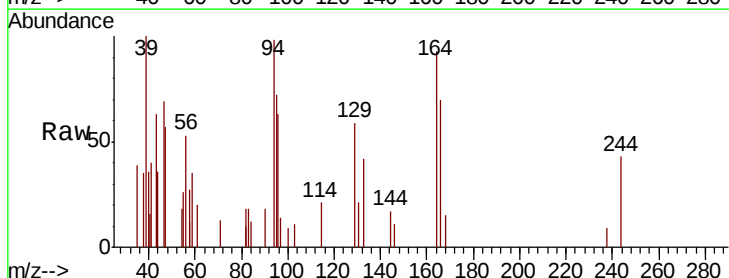
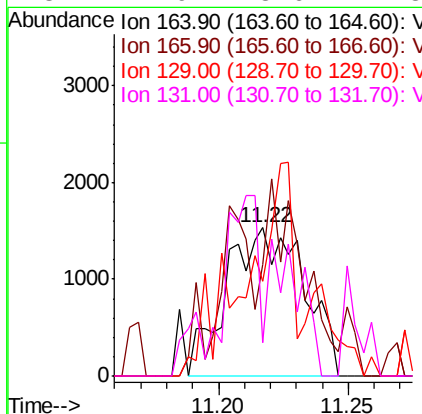
RT: 11.22 min Scan# 2622

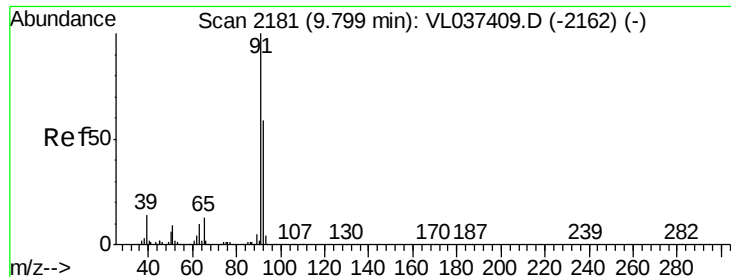
Delta R.T. -0.00 min

Lab File: VL037436.D

Acq: 13 Aug 2021 6:15

Tgt Ion	164	Resp	3202
Ion	Ratio	Lower	Upper
164	100		
166	75.2	98.6	147.8#
129	63.5	82.0	123.0#
131	22.9	78.6	117.8#





#53

Toluene

Concen: 0.403 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. 0.00 min

Lab File: VL037436.D

Acq: 13 Aug 2021 6:15

Instrument :

MSVOA_L

ClientSampleId :

SVP-5RE

Tot Ion: 91 Resp: 146664

Ion Ratio Lower Upper

91 100

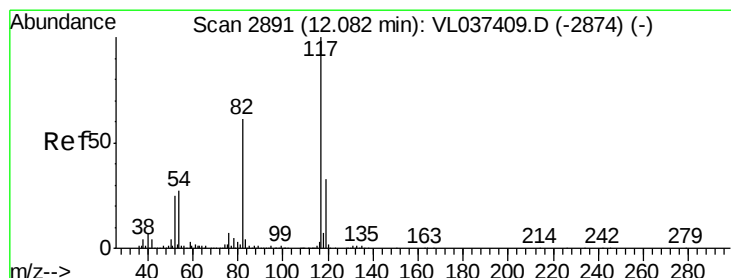
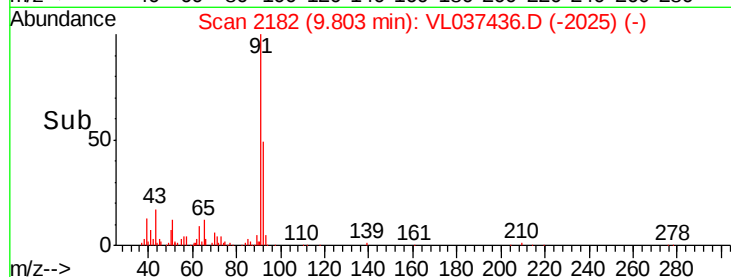
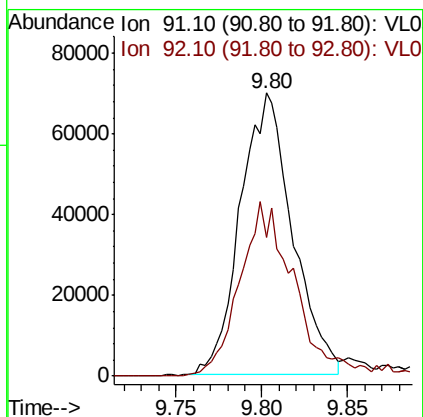
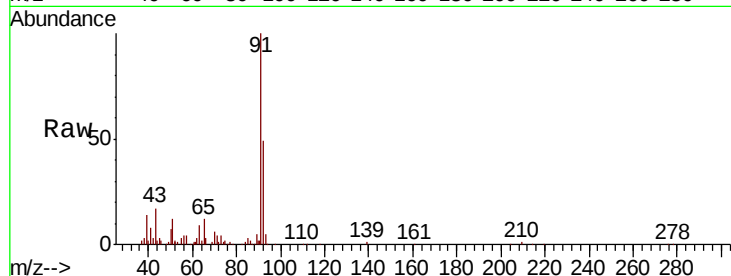
92 65.6 49.0 73.6

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2890

Delta R.T. -0.00 min

Lab File: VL037436.D

Acq: 13 Aug 2021 6:15

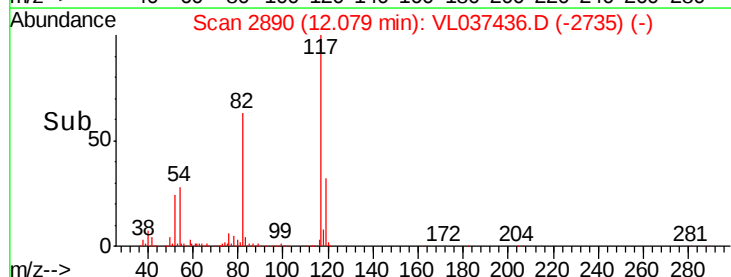
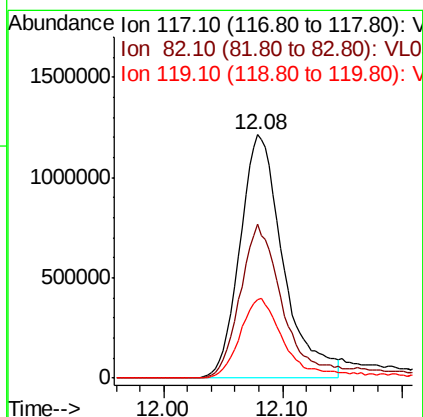
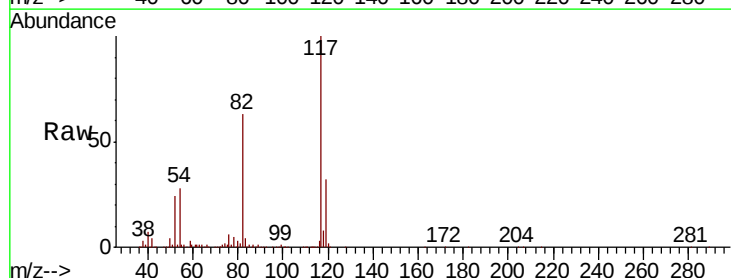
Tgt Ion: 117 Resp: 3053615

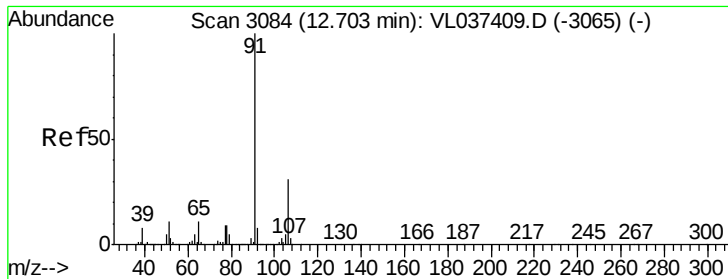
Ion Ratio Lower Upper

117 100

82 67.4 53.1 79.7

119 36.4 28.0 42.0





#58

Ethyl Benzene

Concen: 0.152 ppbv m

RT: 12.70 min Scan# 3084

Delta R.T. 0.00 min

Lab File: VL037436.D

Acq: 13 Aug 2021 6:15

Instrument :

MSVOA_L

ClientSampled :

SVP-5RE

Tot Ion: 91 Resp: 62990

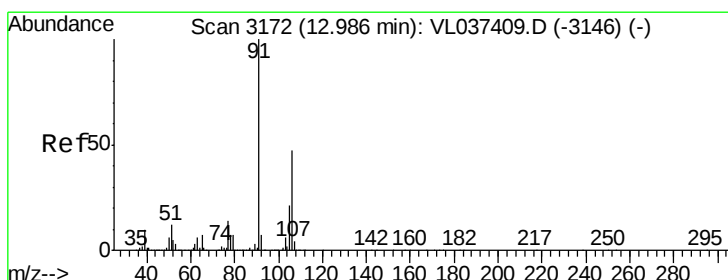
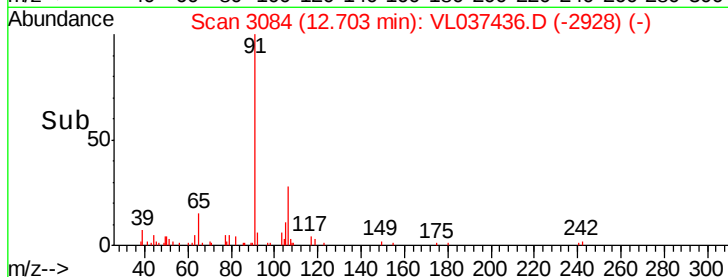
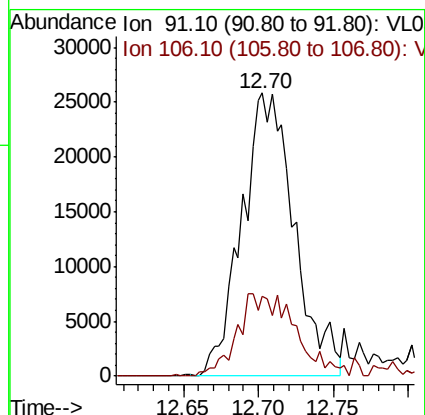
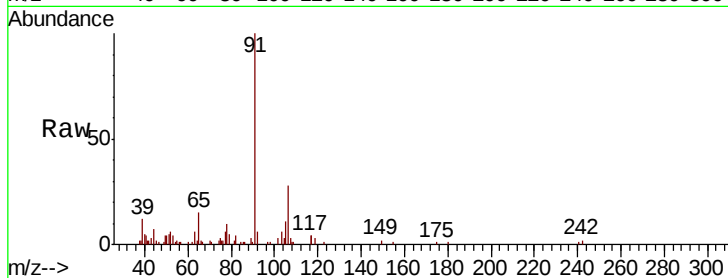
Ion Ratio Lower Upper

91 100

106 28.1 24.7 37.1

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#59

m/p-Xylene

Concen: 0.483 ppbv m

RT: 12.96 min Scan# 3164

Delta R.T. -0.03 min

Lab File: VL037436.D

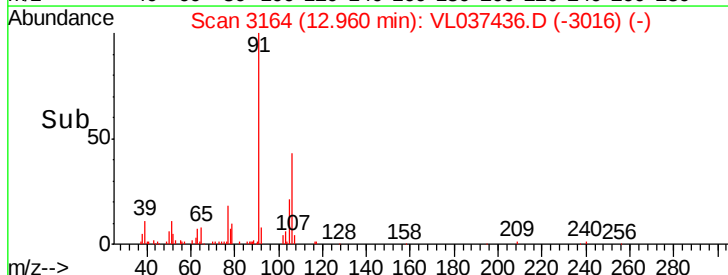
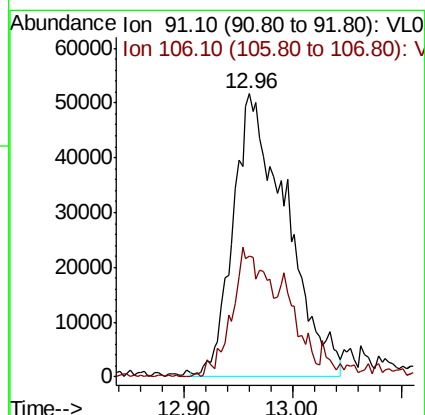
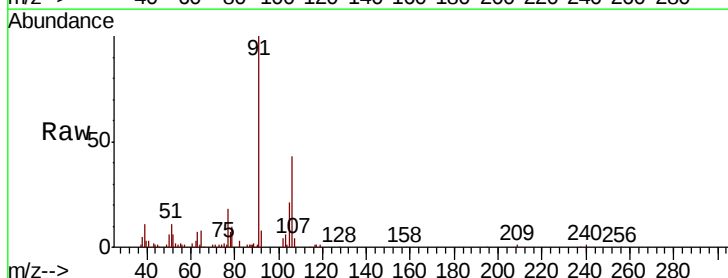
Acq: 13 Aug 2021 6:15

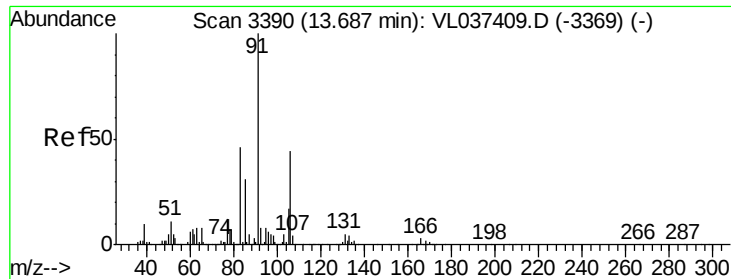
Tgt Ion: 91 Resp: 175716

Ion Ratio Lower Upper

91 100

106 0.0 36.6 54.8#





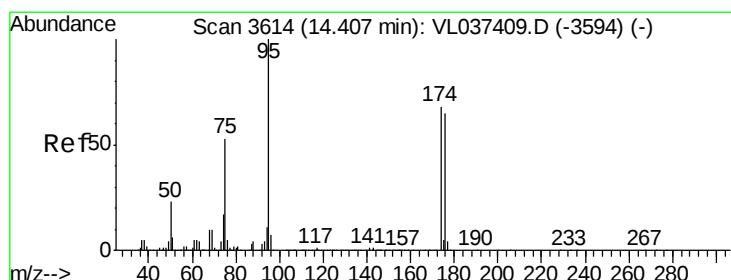
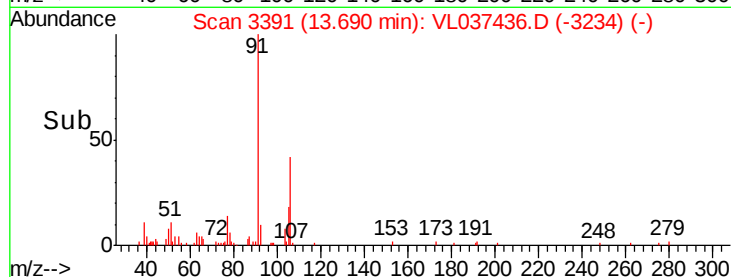
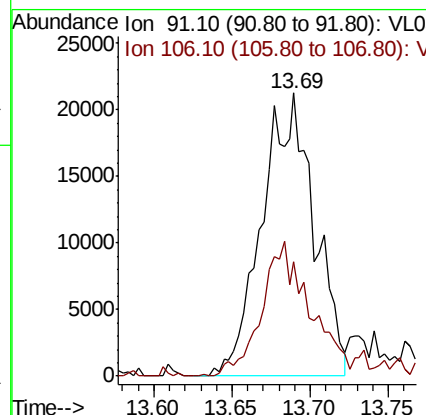
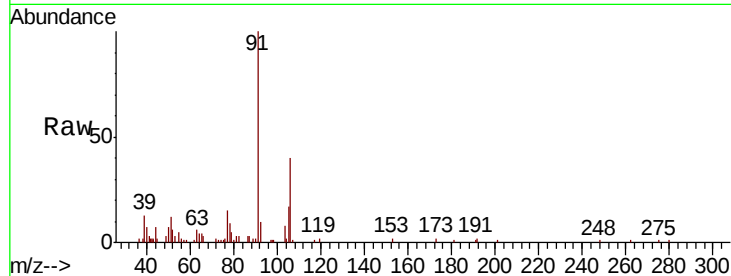
#60
o-Xylene
Concen: 0.146 ppbv m
RT: 13.69 min Scan# 3391
Delta R.T. 0.00 min
Lab File: VL037436.D
Acq: 13 Aug 2021 6:15

Instrument :
MSVOA_L
ClientSampled :
SVP-5RE

Tot Ion	Ratio	Lower	Upper
91	100		
106	49.6	24.1	72.2

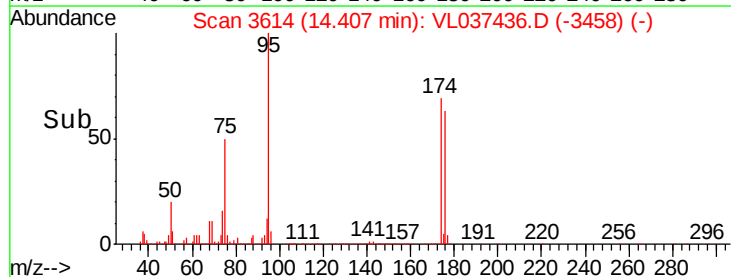
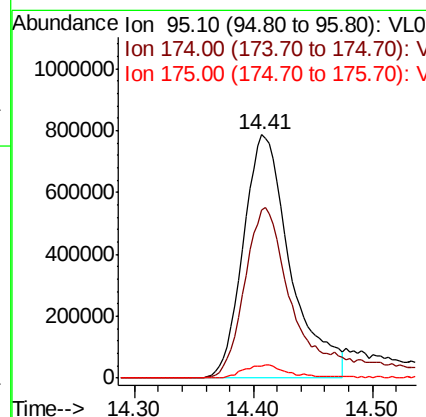
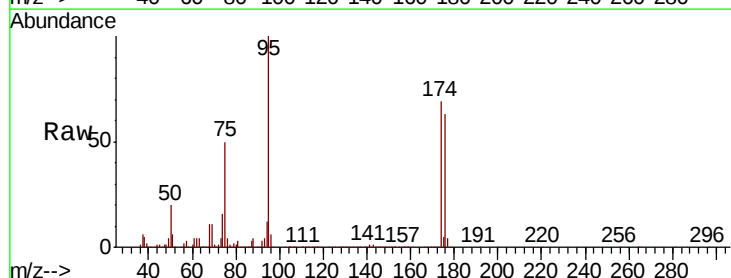
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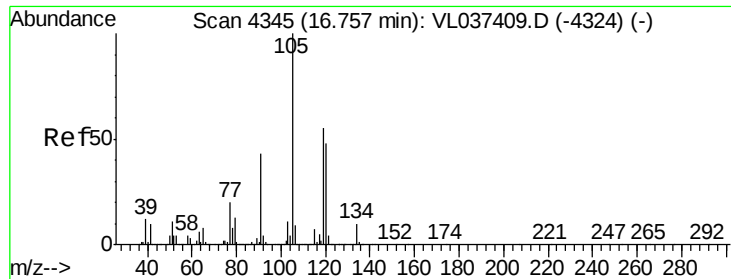
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.883 ppbv
RT: 14.41 min Scan# 3614
Delta R.T. 0.00 min
Lab File: VL037436.D
Acq: 13 Aug 2021 6:15

Tgt Ion	Ratio	Lower	Upper
95	100		
174	80.6	59.6	89.4
175	5.6	4.3	6.5





#74
 1,2,4-Trimethylbenzene
 Concen: 0.201 ppbv
 RT: 16.76 min Scan# 4345
 Delta R.T. 0.00 min
 Lab File: VL037436.D
 Acq: 13 Aug 2021 6:15

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-5RE

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	39.1	38.2	57.2
91	11.2	35.4	53.2#
77	13.2	16.2	24.2#

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