

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL092721\
 Data File : VL037690.D
 Acq On : 27 Sep 2021 21:15
 Operator : SY/AP
 Sample : M3948-02 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Manual Integrations
 APPROVED

MMDadoda
 10/1/2021 11:05:22 AM

Quant Time: Sep 28 02:58:44 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 1
 QLast Update : Thu Sep 16 13:42:46 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1588989	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	4607145	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.09	117	4059845	10.00	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2756733	9.40	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.00	51	85176	0.284	ppbv	95
9) Propene	3.02	41	51342m	0.486	ppbv	
13) Ethanol	3.62	45	54090m	5.231	ppbv	
15) Acetone	3.85	43	4378785	26.523	ppbv	99
16) 1,3-Butadiene	3.31	39	183316m	1.777	ppbv	
17) tert-Butyl alcohol	4.32	59	44255m	0.316	ppbv	
19) Isopropyl Alcohol	3.99	45	169625	1.888	ppbv #	89
20) Methylene Chloride	4.35	84	42739	0.542	ppbv #	73
26) Hexane	5.70	57	46653	0.246	ppbv #	42
29) Chloroform	5.76	83	71462	0.258	ppbv #	80
32) 1,1,1-Trichloroethane	6.52	97	40221m	0.156	ppbv	
34) 2-Butanone	5.26	43	503751	2.691	ppbv	97
38) Trichloroethene	7.84	130	1690871	10.536	ppbv	98
51) 2-Hexanone	10.15	43	162800m	1.553	ppbv	
52) Tetrachloroethene	11.23	164	1369537	9.286	ppbv	98
53) Toluene	9.81	91	102364	0.240	ppbv	100
58) Ethyl Benzene	12.71	91	65253m	0.121	ppbv	
59) m/p-Xylene	12.97	91	231856m	0.494	ppbv	
60) o-Xylene	13.69	91	128760	0.288	ppbv	93
72) 4-Ethyltoluene	15.85	105	56252m	0.110	ppbv	
73) 1,3,5-Trimethylbenzene	16.00	105	74476m	0.156	ppbv	
74) 1,2,4-Trimethylbenzene	16.77	105	278031	0.552	ppbv #	75

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

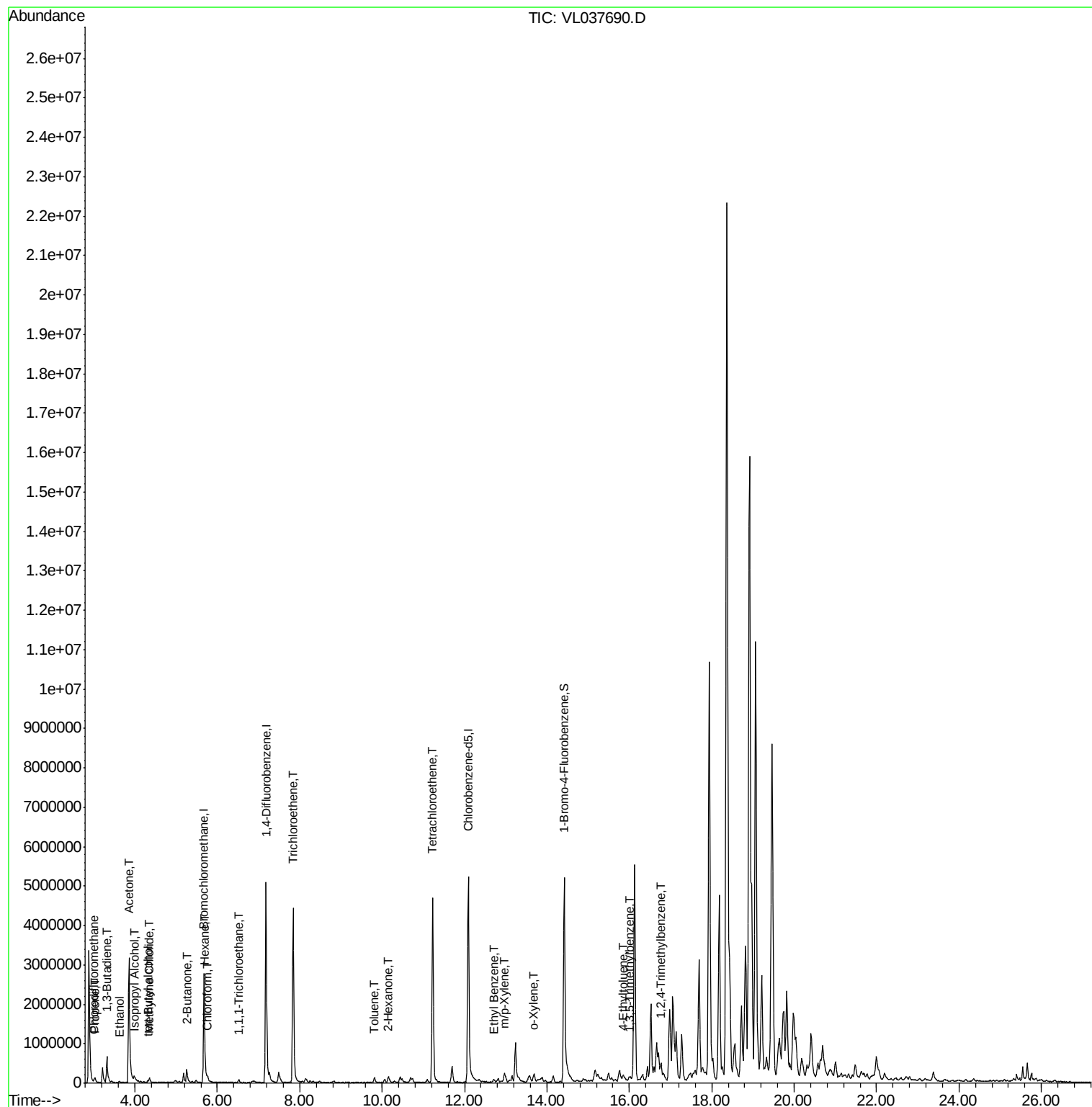
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL092721\
Data File : VL037690.D
Acq On : 27 Sep 2021 21:15
Operator : SY/AP
Sample : M3948-02 10X
Misc : 400mL/MSVOA_L
ALS Vial : 9 Sample Multiplier: 1

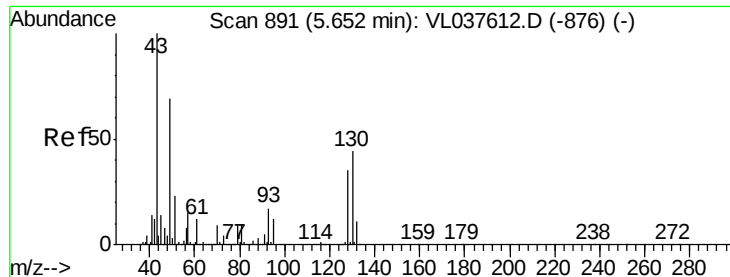
Instrument :
MSVOA_L
ClientSampleId :
SV2

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Quant Time: Sep 28 02:58:44 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL091621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep
QLast Update : Thu Sep 16 13:42:46 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.02 min

Lab File: VL037690.D

Acq: 27 Sep 2021 21:15

Instrument :

MSVOA_L

ClientSampled :

SV2

Tgt Ion: 49 Resp: 1588989

Ion Ratio Lower Upper

49 100

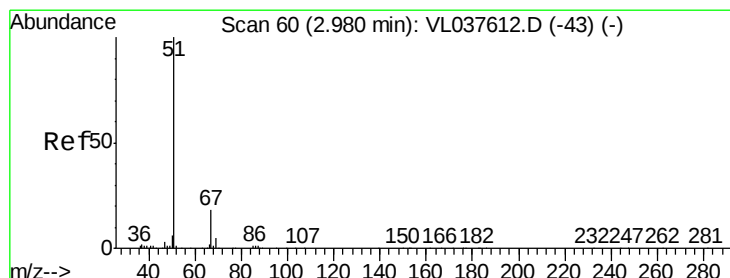
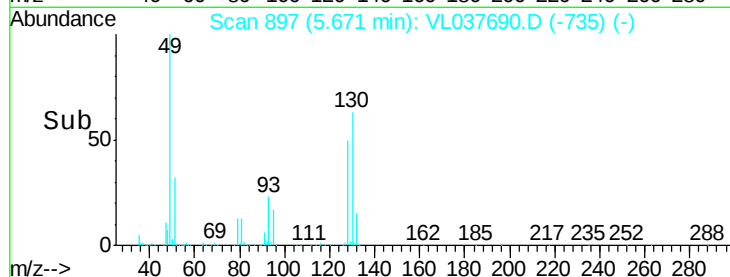
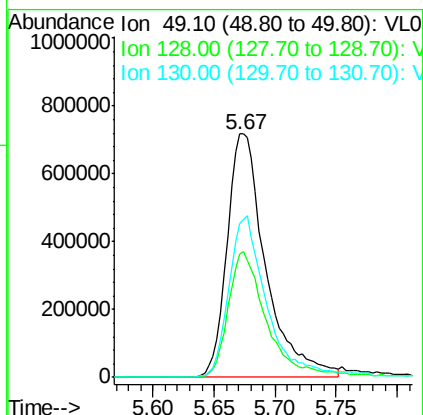
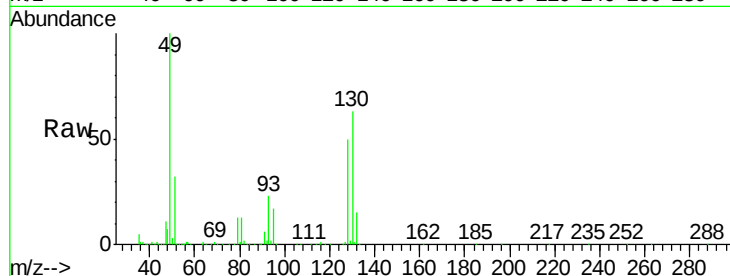
128 52.1 27.9 83.6

130 67.3 33.9 101.7

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#3

Chlorodifluoromethane

Concen: 0.284 ppbv

RT: 3.00 min Scan# 66

Delta R.T. 0.02 min

Lab File: VL037690.D

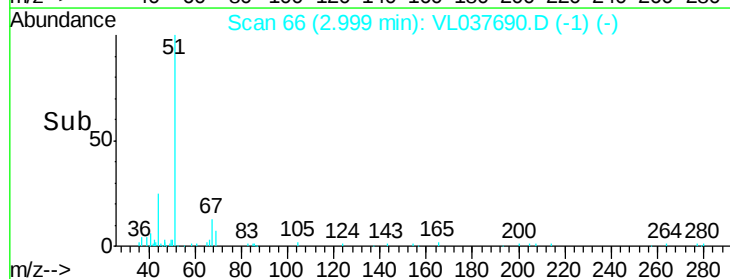
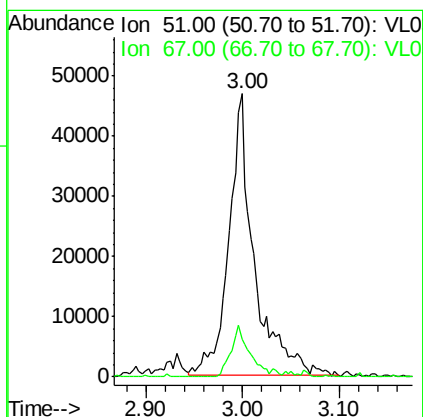
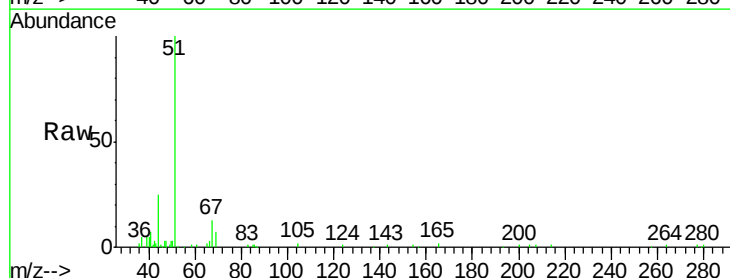
Acq: 27 Sep 2021 21:15

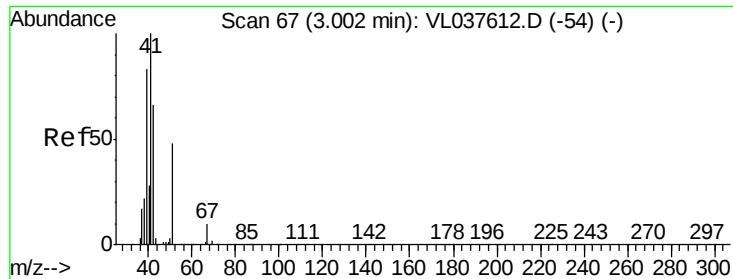
Tgt Ion: 51 Resp: 85176

Ion Ratio Lower Upper

51 100

67 15.3 14.0 21.0





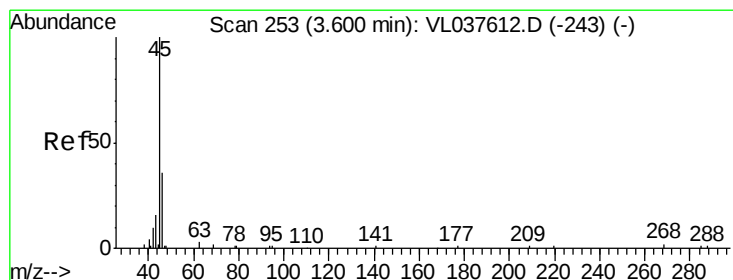
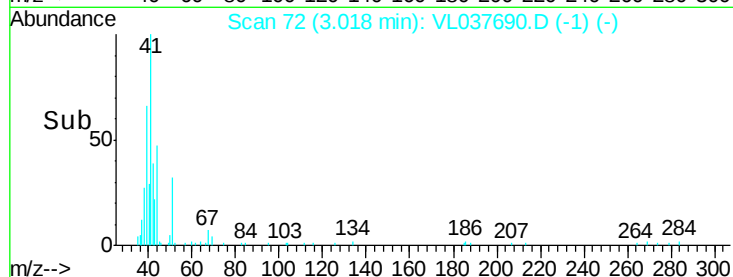
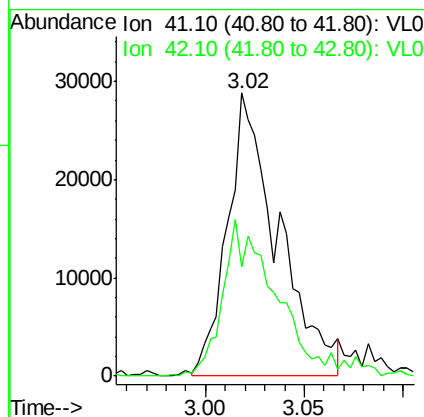
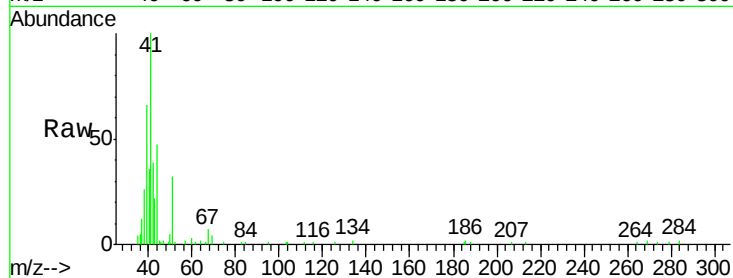
#9
Propene
Concen: 0.486 ppbv m
RT: 3.02 min Scan# 72
Delta R.T. 0.02 min
Lab File: VL037690.D
Acq: 27 Sep 2021 21:15

Instrument :
MSVOA_L
ClientSampled :
SV2

Tgt Ion: 41 Resp: 51342
Ion Ratio Lower Upper
41 100
42 59.3 57.2 85.8

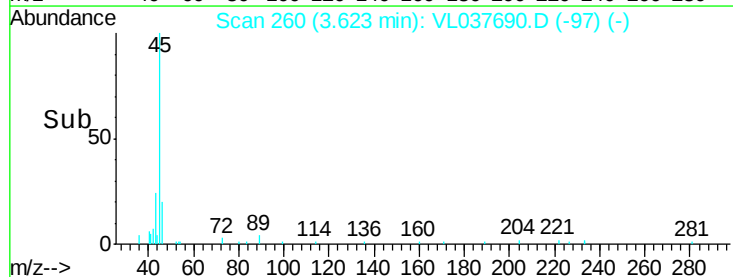
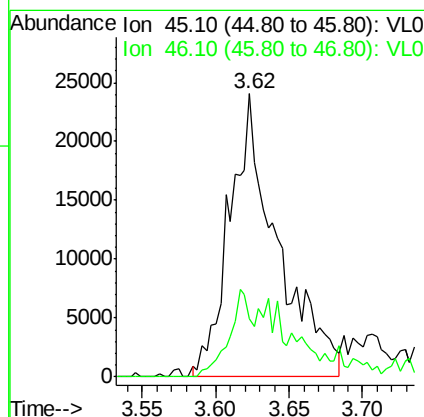
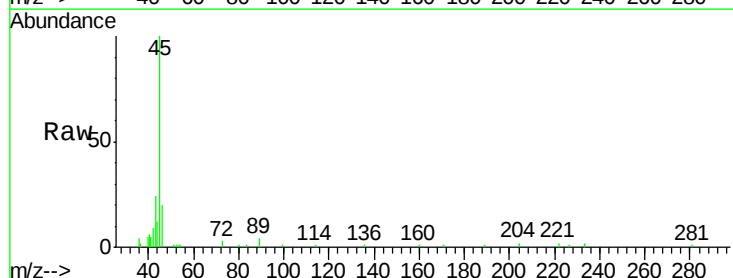
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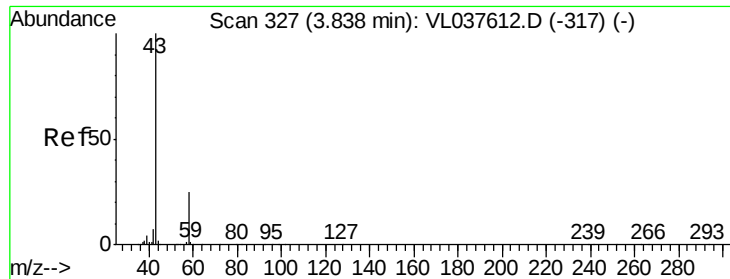
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#13
Ethanol
Concen: 5.231 ppbv m
RT: 3.62 min Scan# 260
Delta R.T. 0.02 min
Lab File: VL037690.D
Acq: 27 Sep 2021 21:15

Tgt Ion: 45 Resp: 54090
Ion Ratio Lower Upper
45 100
46 38.6 17.2 68.8





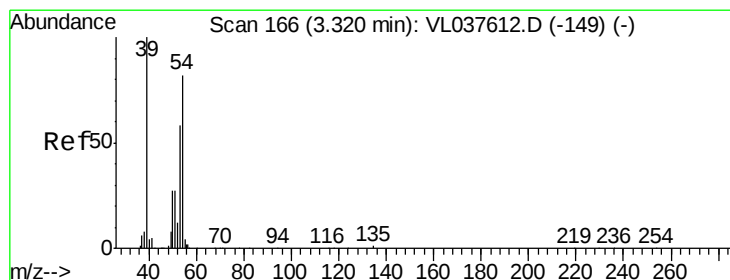
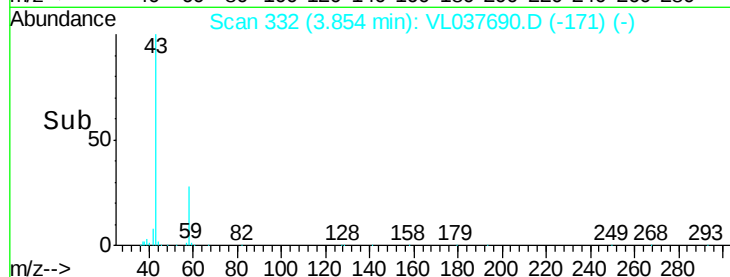
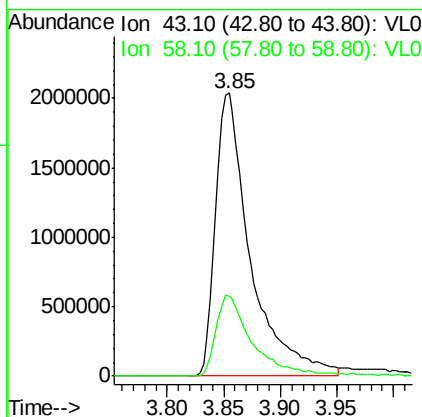
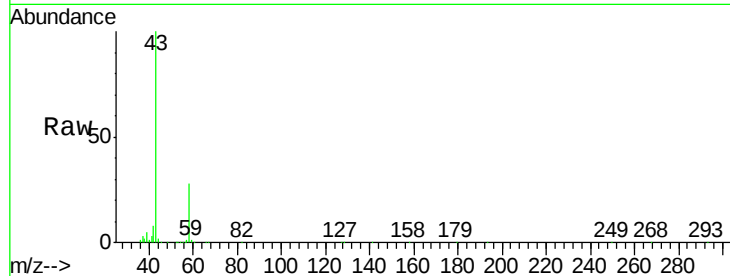
#15
Acetone
Concen: 26.523 ppbv
RT: 3.85 min Scan# 332
Delta R.T. 0.02 min
Lab File: VL037690.D
Acq: 27 Sep 2021 21:15

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 43 Resp: 4378785
Ion Ratio Lower Upper
43 100
58 30.7 24.9 37.3

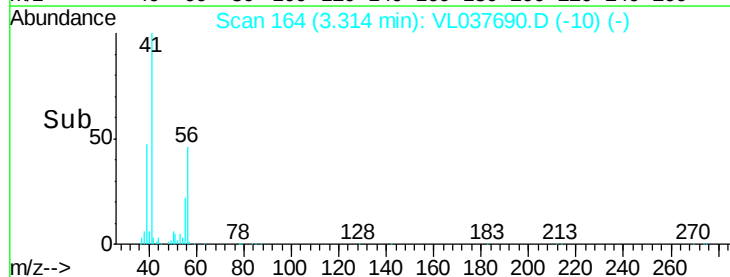
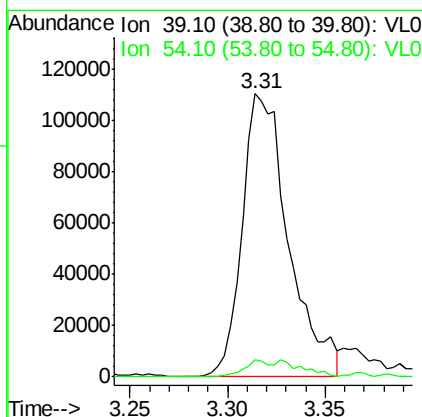
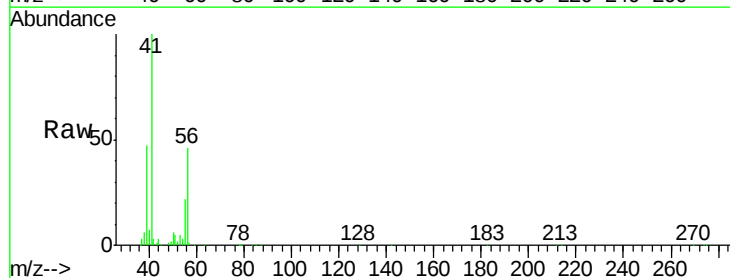
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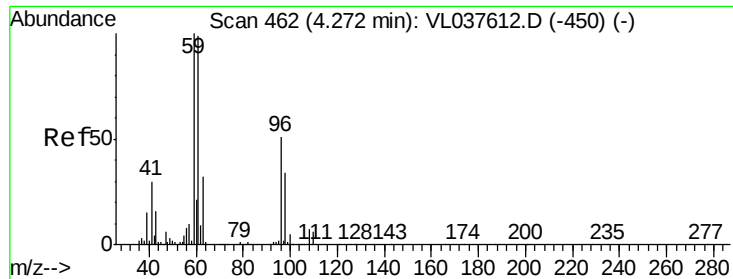
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#16
1,3-Butadiene
Concen: 1.777 ppbv m
RT: 3.31 min Scan# 164
Delta R.T. -0.01 min
Lab File: VL037690.D
Acq: 27 Sep 2021 21:15

Tgt Ion: 39 Resp: 183316
Ion Ratio Lower Upper
39 100
54 0.0 62.6 93.8#





#17

tert-Butyl alcohol

Concen: 0.316 ppbv

RT: 4.32 min Scan# 476

Delta R.T. 0.05 min

Lab File: VL037690.D

Acq: 27 Sep 2021 21:15

Instrument :

MSVOA_L

ClientSampled :

SV2

Tgt Ion: 59 Resp: 44255

Ion Ratio Lower Upper

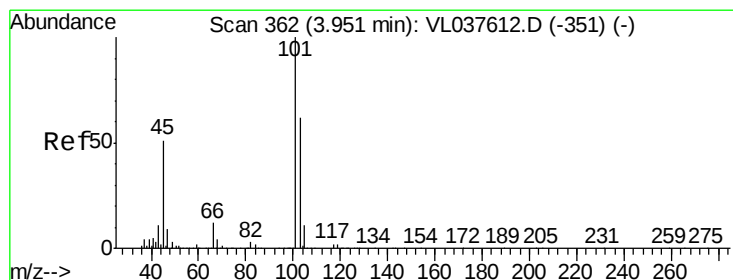
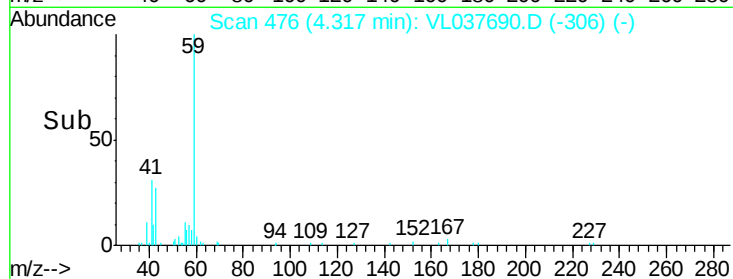
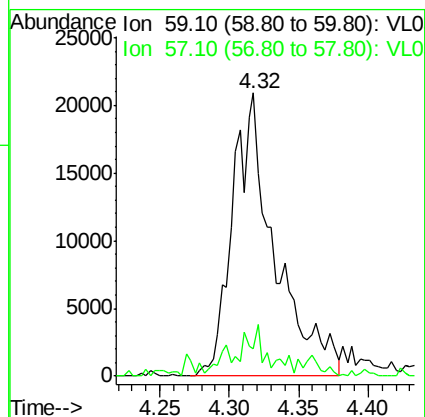
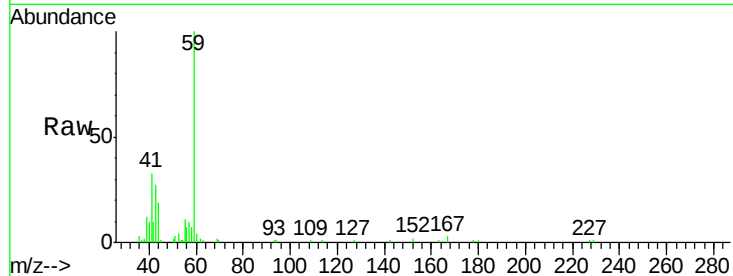
59 100

57 0.0 8.4 12.6#

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#19

Isopropyl Alcohol

Concen: 1.888 ppbv

RT: 3.99 min Scan# 373

Delta R.T. 0.04 min

Lab File: VL037690.D

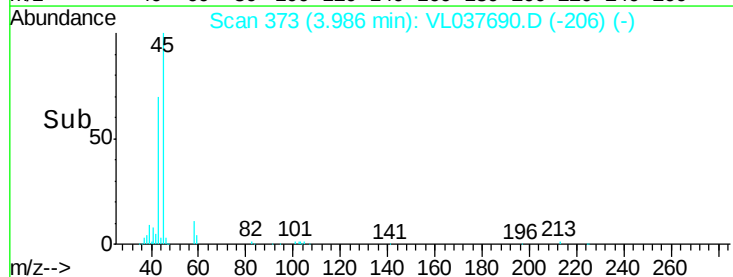
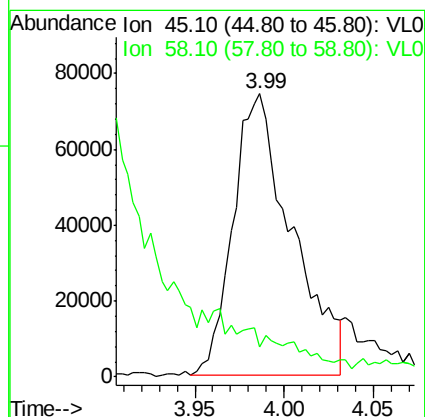
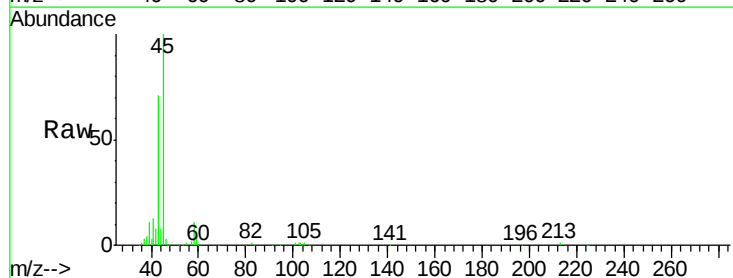
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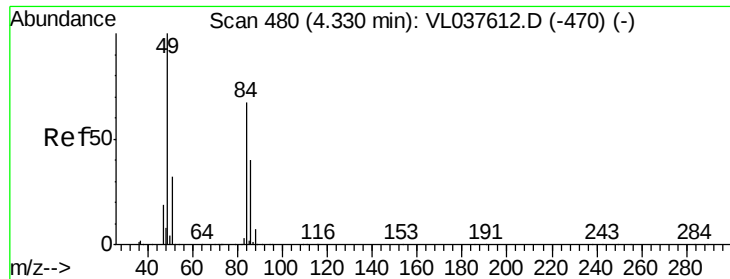
Tgt Ion: 45 Resp: 169625

Ion Ratio Lower Upper

45 100

58 0.0 2.9 4.3#





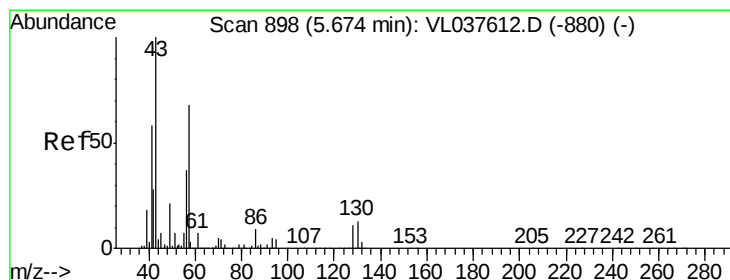
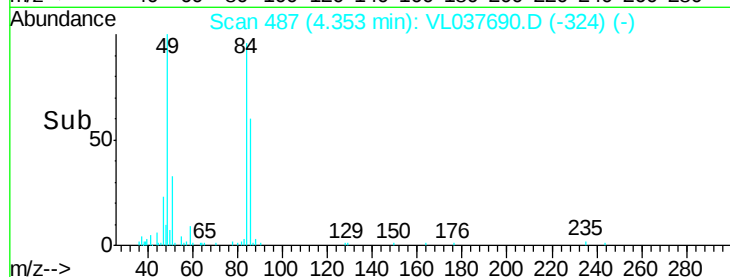
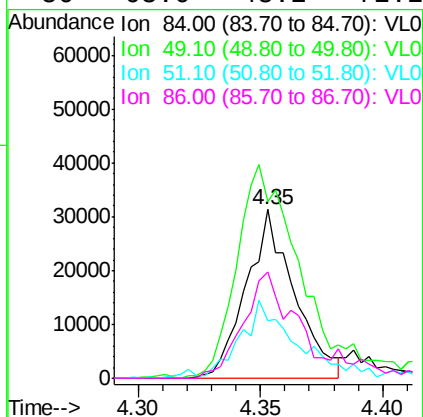
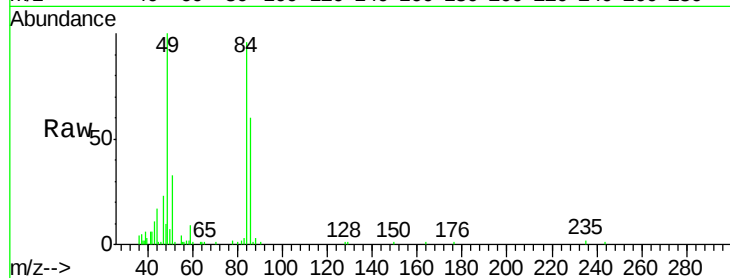
#20
Methylene Chloride
Concen: 0.542 ppbv
RT: 4.35 min Scan# 487
Delta R.T. 0.02 min
Lab File: VL037690.D
Acq: 27 Sep 2021 21:15

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion	Ratio	Lower	Upper
84	100		
49	103.0	120.0	180.0#
51	29.0	38.0	57.0#
86	63.0	48.2	72.2

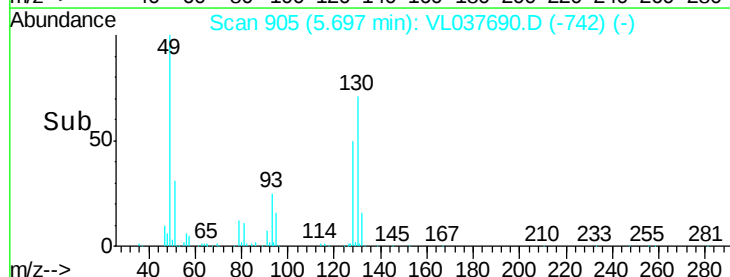
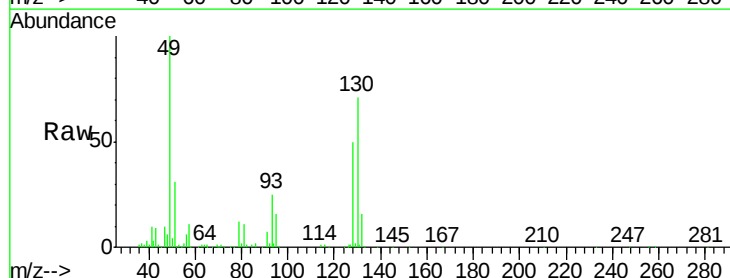
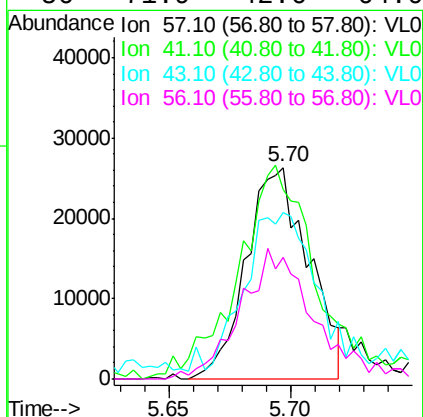
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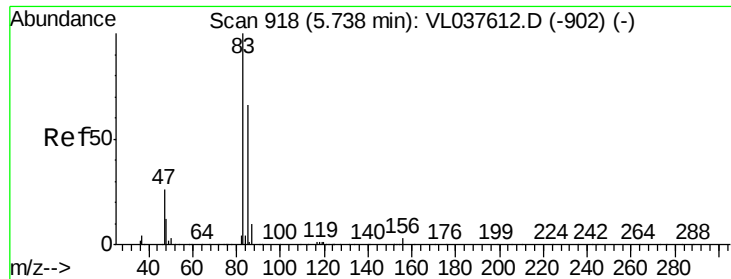
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#26
Hexane
Concen: 0.246 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.02 min
Lab File: VL037690.D
Acq: 27 Sep 2021 21:15

Tgt Ion	Ratio	Lower	Upper
57	100		
41	125.3	70.9	106.3#
43	96.6	170.4	255.6#
56	71.9	42.6	64.0#





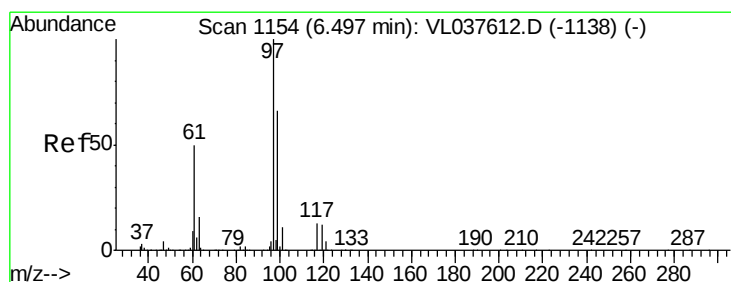
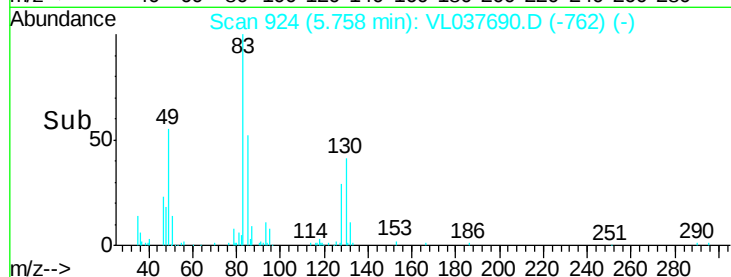
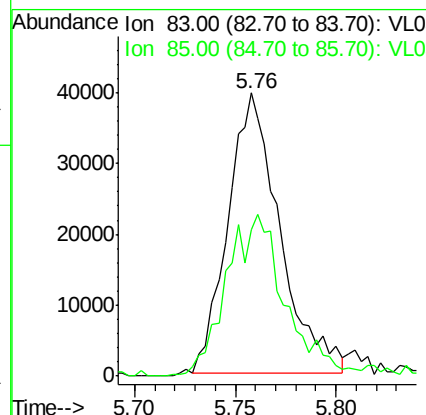
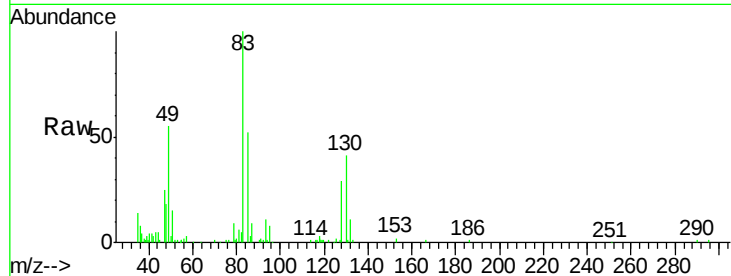
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Chloroform
Concen: 0.258 ppbv
RT: 5.76 min Scan# 924
Delta R.T. 0.02 min
Lab File: VL037690.D
Acq: 27 Sep 2021 21:15

Instrument :
MSVOA_L
ClientSampled :
SV2

Tgt Ion: 83 Resp: 71462
Ion Ratio Lower Upper
83 100
85 49.9 52.6 79.0#

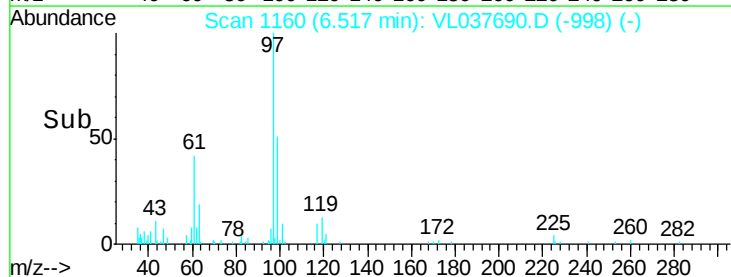
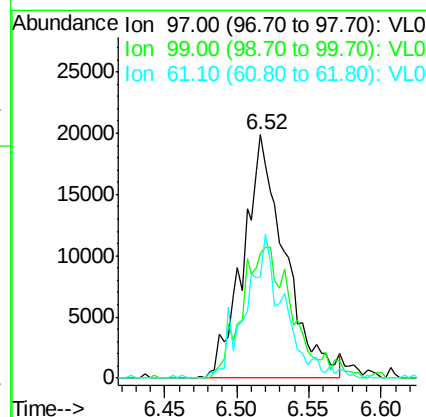
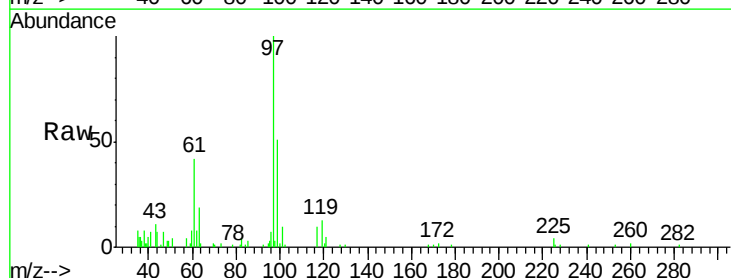
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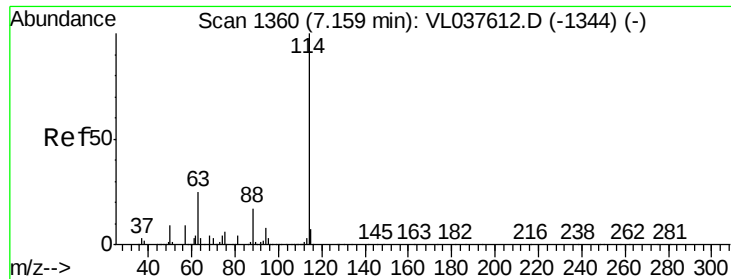
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#32
1,1,1-Trichloroethane
Concen: 0.156 ppbv m
RT: 6.52 min Scan# 1160
Delta R.T. 0.02 min
Lab File: VL037690.D
Acq: 27 Sep 2021 21:15

Tgt Ion: 97 Resp: 40221
Ion Ratio Lower Upper
97 100
99 66.3 52.3 78.5
61 54.0 39.5 59.3





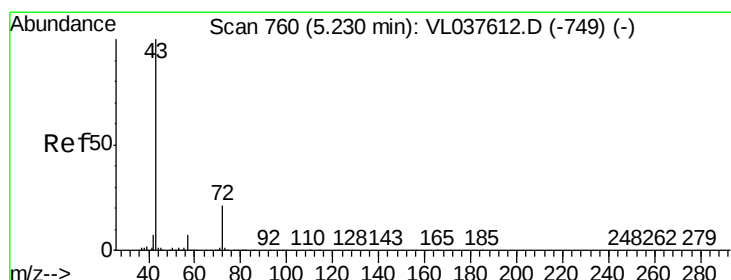
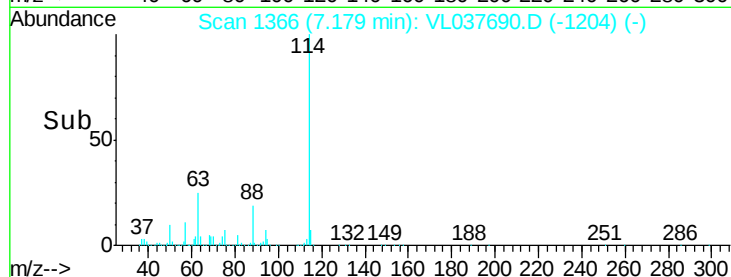
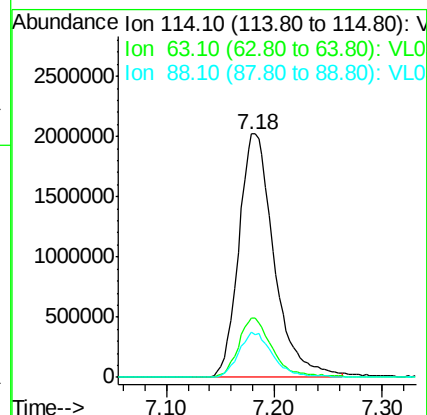
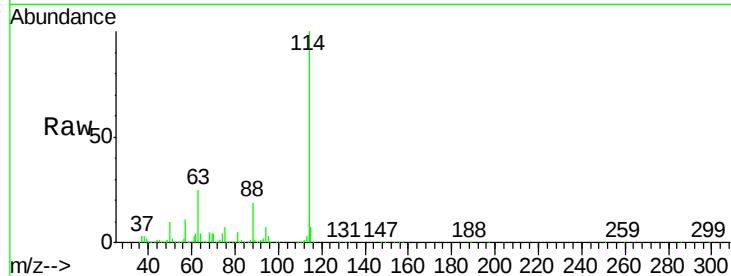
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. 0.02 min
 Lab File: VL037690.D
 Acq: 27 Sep 2021 21:15

Instrument :
 MSVOA_L
 ClientSampled :
 SV2

Tgt Ion	Ratio	Lower	Upper
114	100		
63	23.7	19.6	29.4
88	18.3	14.2	21.4

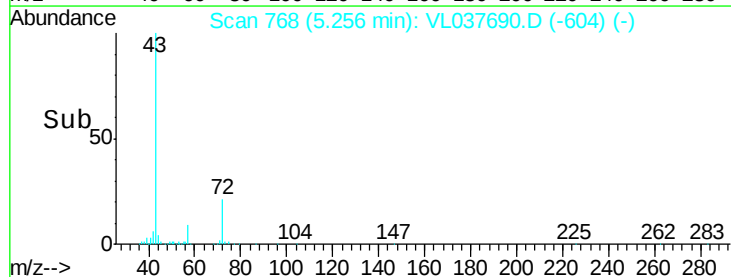
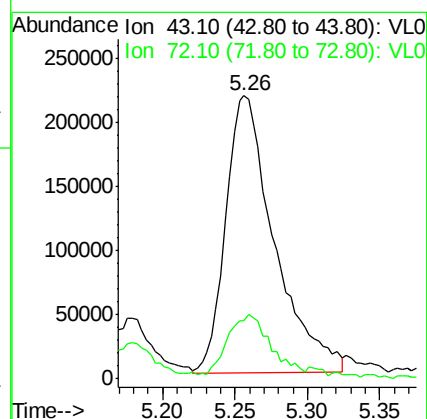
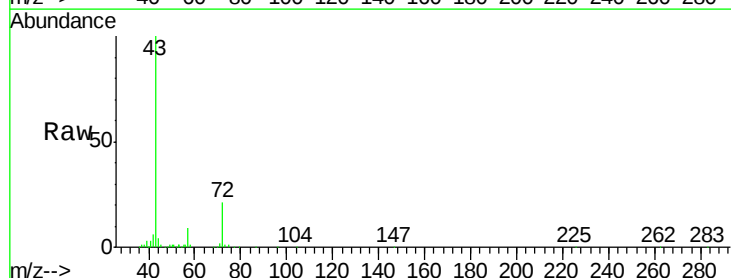
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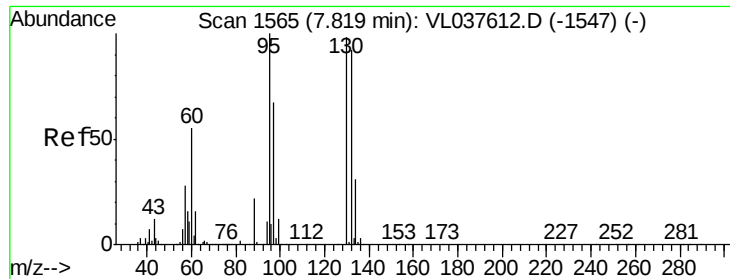
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#34
 2-Butanone
 Concen: 2.691 ppbv
 RT: 5.26 min Scan# 768
 Delta R.T. 0.03 min
 Lab File: VL037690.D
 Acq: 27 Sep 2021 21:15

Tgt Ion	Ratio	Lower	Upper
43	100		
72	24.4	18.4	27.6





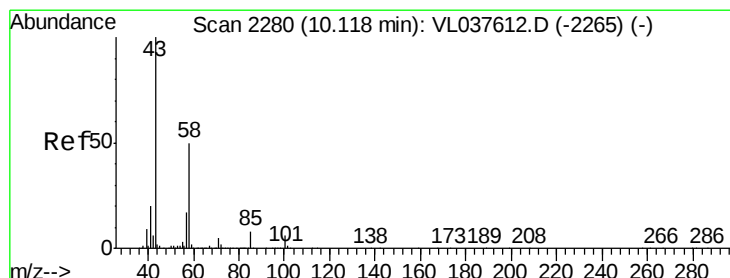
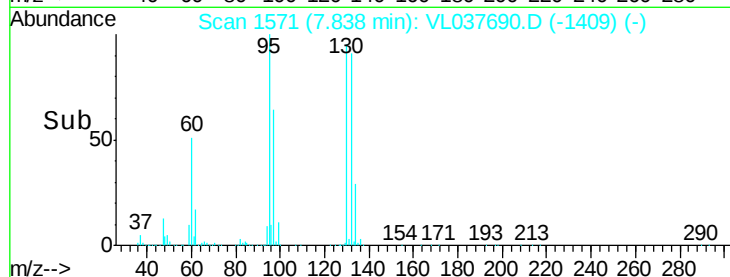
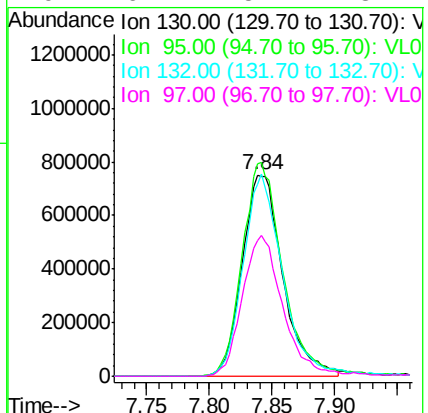
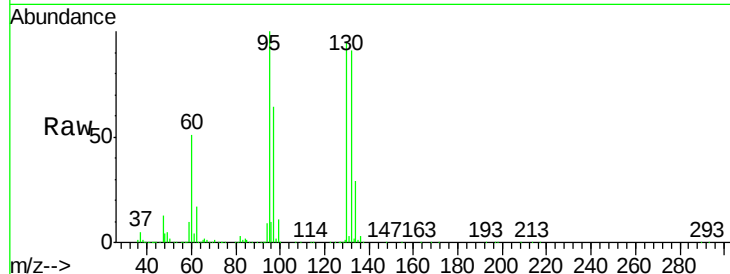
#38
 Trichloroethene
 Concen: 10.536 ppbv
 RT: 7.84 min Scan# 1571
 Delta R.T. 0.02 min
 Lab File: VL037690.D
 Acq: 27 Sep 2021 21:15

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Tgt Ion	Ratio	Lower	Upper
130	100		
95	105.4	81.8	122.6
132	95.7	75.3	112.9
97	67.2	54.7	82.1

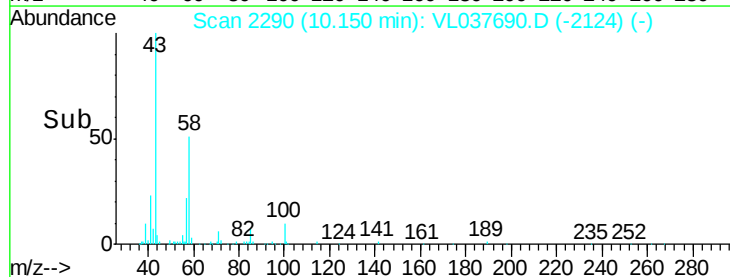
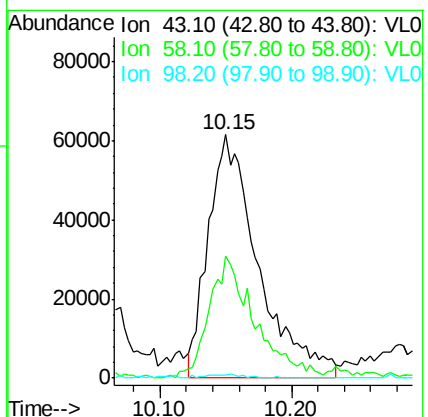
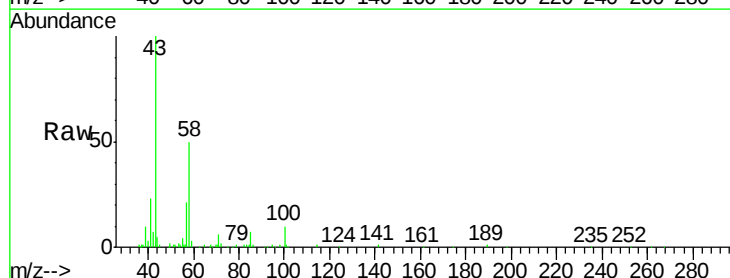
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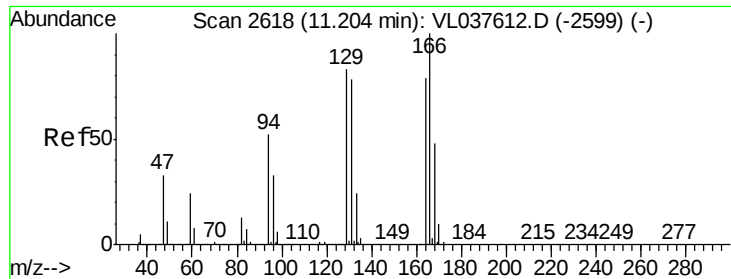
MMDadoda
 10/1/2021 11:05:22 AM



#51
 2-Hexanone
 Concen: 1.553 ppbv m
 RT: 10.15 min Scan# 2290
 Delta R.T. 0.03 min
 Lab File: VL037690.D
 Acq: 27 Sep 2021 21:15

Tgt Ion	Ratio	Lower	Upper
43	100		
58	45.5	39.3	58.9
98	0.0	0.4	0.6#





#52

Tetrachloroethene

Concen: 9.286 ppbv

RT: 11.23 min Scan# 2625

Delta R.T. 0.02 min

Lab File: VL037690.D

Acq: 27 Sep 2021 21:15

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion:164 Resp: 1369537

Ion Ratio Lower Upper

164 100

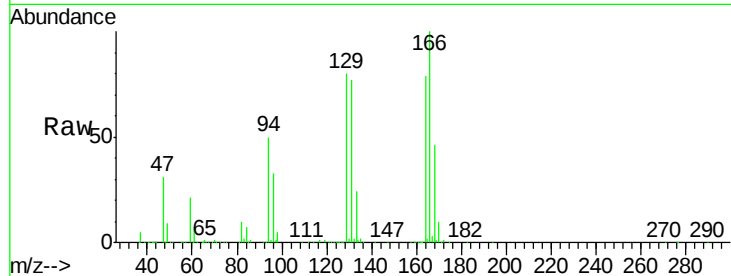
166 126.8 101.2 151.8

129 100.7 84.0 126.0

131 97.0 78.8 118.2

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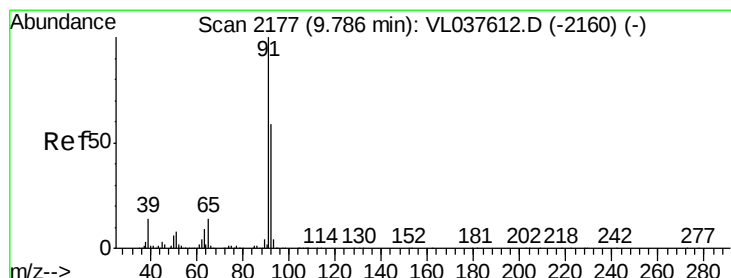
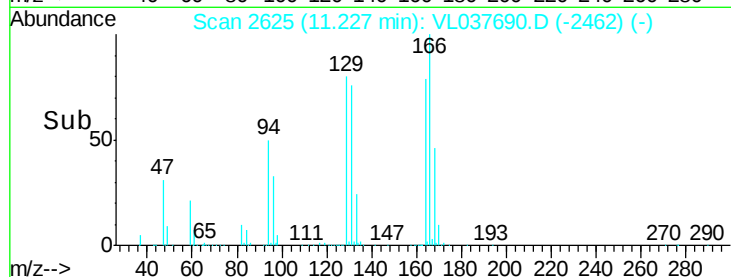
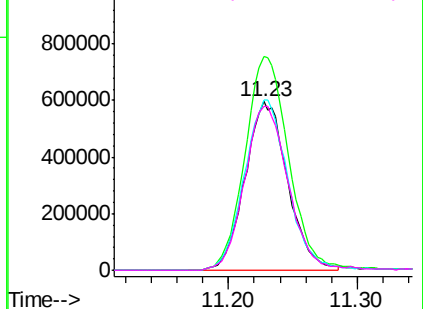
Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.240 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. 0.02 min

Lab File: VL037690.D

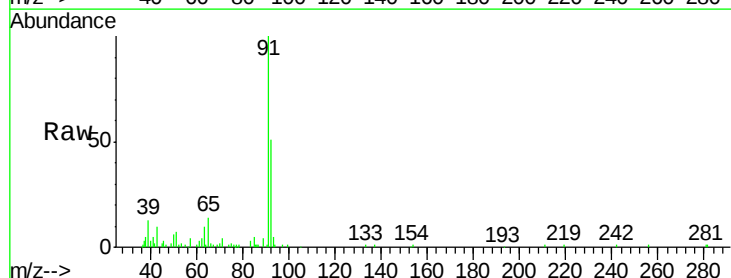
Acq: 27 Sep 2021 21:15

Tgt Ion: 91 Resp: 102364

Ion Ratio Lower Upper

91 100

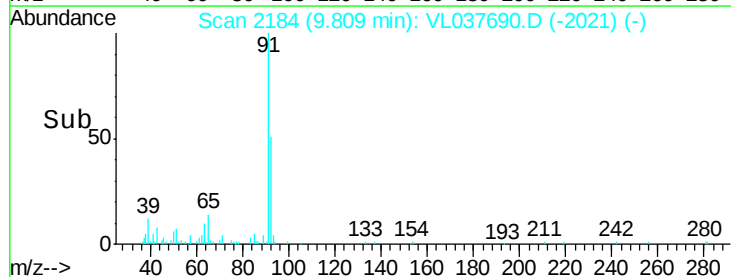
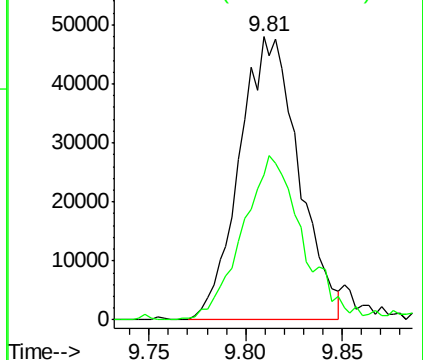
92 60.8 48.9 73.3

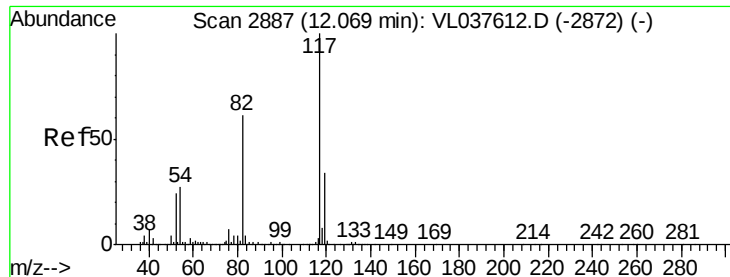


Abundance

Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2893

Delta R.T. 0.02 min

Lab File: VL037690.D

Acq: 27 Sep 2021 21:15

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion: 117 Resp: 4059845

Ion Ratio Lower Upper

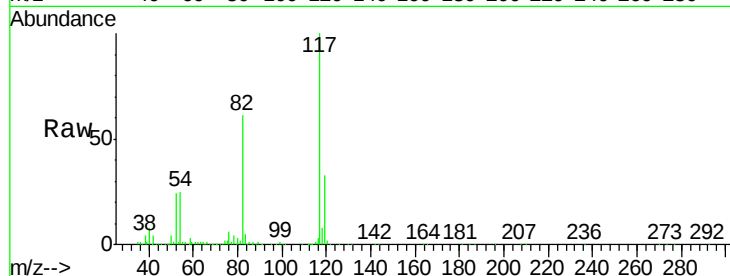
117 100

82 64.5 50.6 75.8

119 34.7 26.2 39.2

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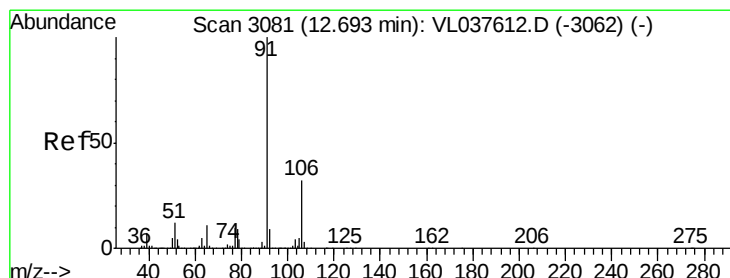
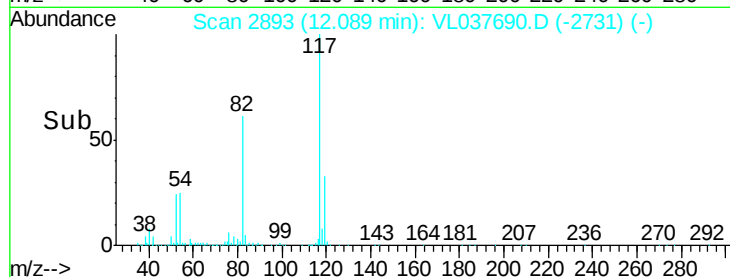
Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

12.09

Time-->



#58

Ethyl Benzene

Concen: 0.121 ppbv m

RT: 12.71 min Scan# 3087

Delta R.T. 0.02 min

Lab File: VL037690.D

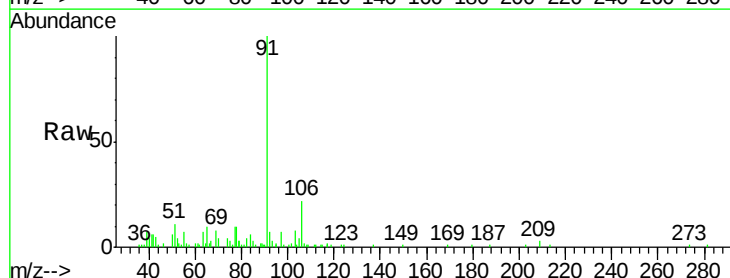
Acq: 27 Sep 2021 21:15

Tgt Ion: 91 Resp: 65253

Ion Ratio Lower Upper

91 100

106 22.3 25.3 37.9#

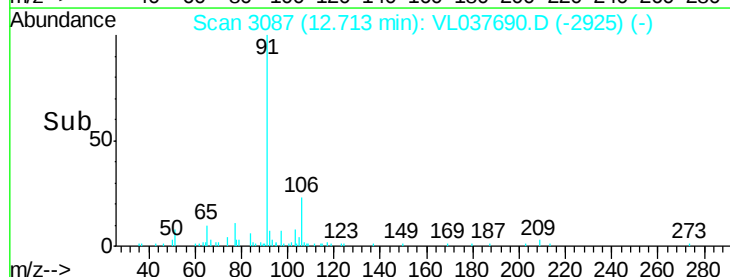


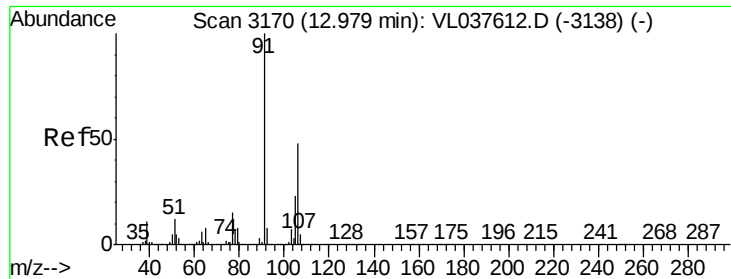
Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

12.71

Time-->





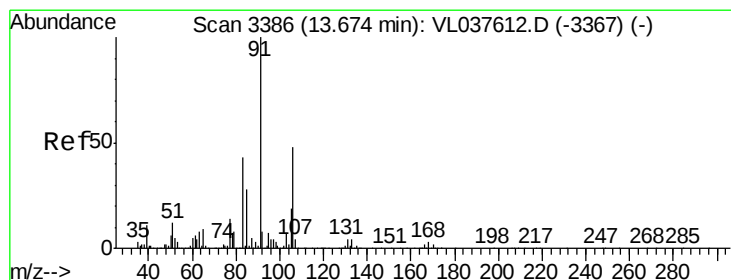
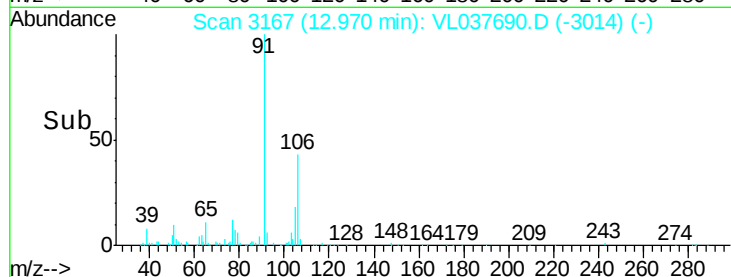
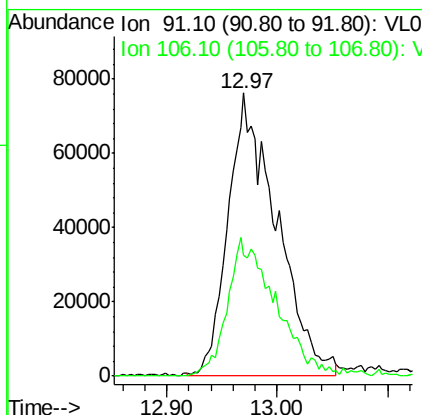
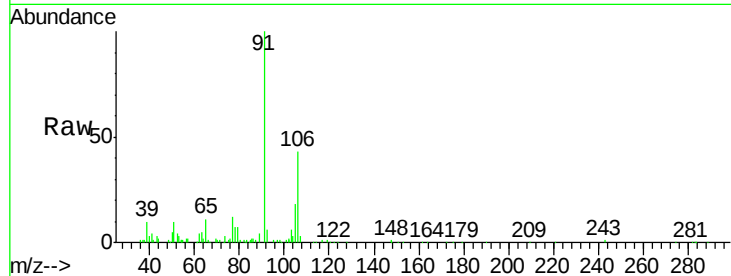
#59
m/p-Xylene
Concen: 0.494 ppbv m
RT: 12.97 min Scan# 3167
Delta R.T. -0.01 min
Lab File: VL037690.D
Acq: 27 Sep 2021 21:15

Instrument :
MSVOA_L
ClientSampled :
SV2

Tgt Ion: 91 Resp: 231856
Ion Ratio Lower Upper
91 100
106 0.0 36.6 55.0#

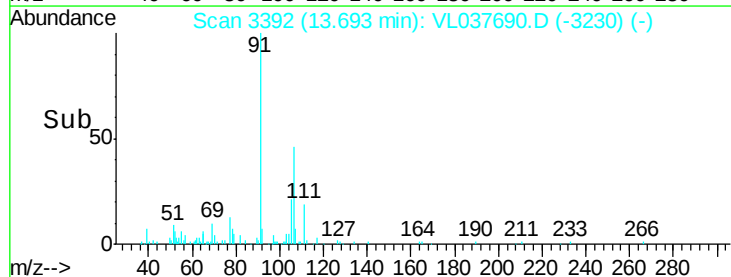
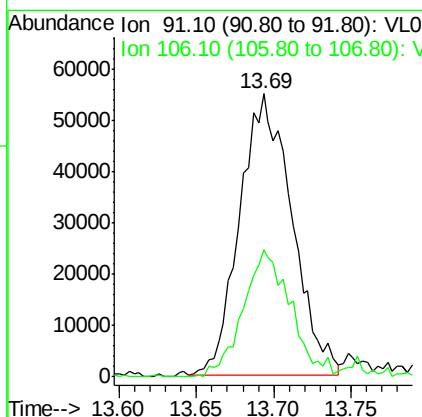
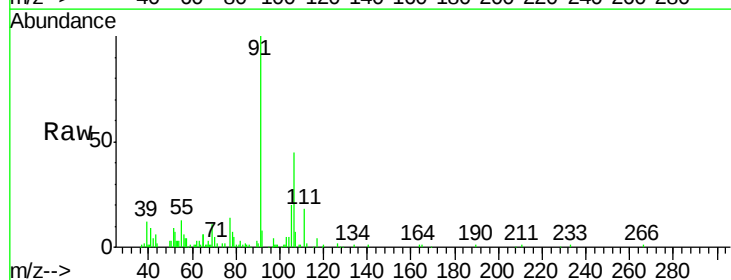
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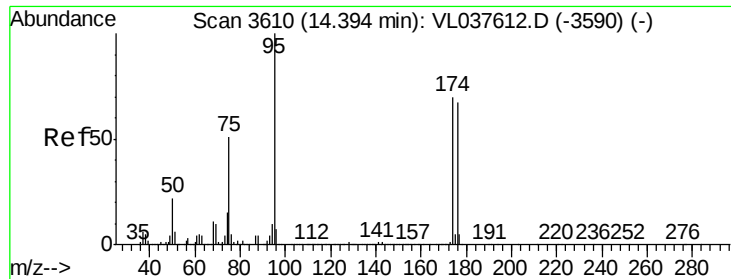
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#60
o-Xylene
Concen: 0.288 ppbv
RT: 13.69 min Scan# 3392
Delta R.T. 0.02 min
Lab File: VL037690.D
Acq: 27 Sep 2021 21:15

Tgt Ion: 91 Resp: 128760
Ion Ratio Lower Upper
91 100
106 41.4 23.0 69.0





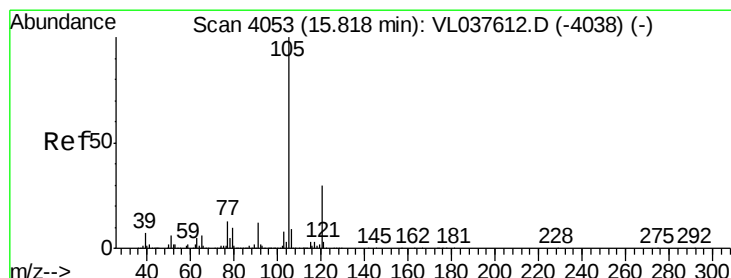
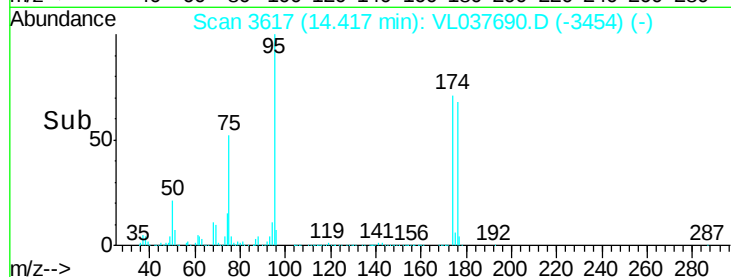
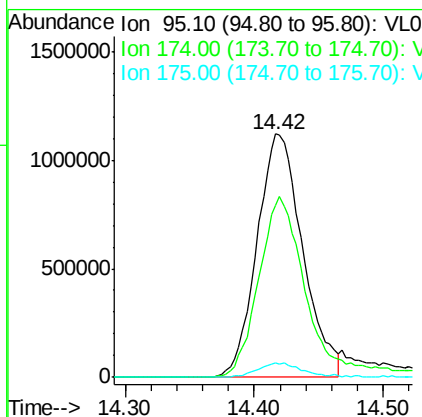
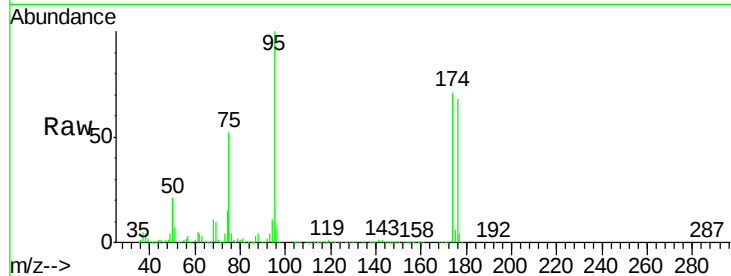
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.396 ppbv
 RT: 14.42 min Scan# 3617
 Delta R.T. 0.02 min
 Lab File: VL037690.D
 Acq: 27 Sep 2021 21:15

Instrument :
 MSVOA_L
 ClientSampled :
 SV2

Tgt Ion: 95 Resp: 2756733
 Ion Ratio Lower Upper
 95 100
 174 81.7 56.3 84.5
 175 5.8 4.4 6.6

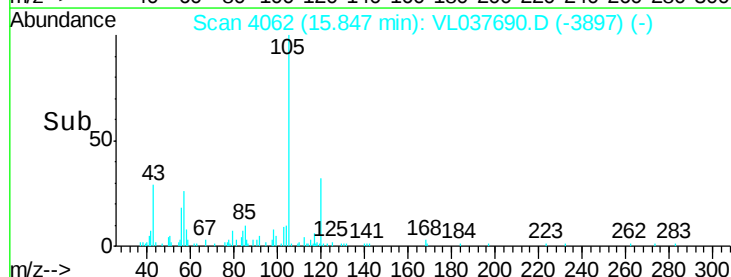
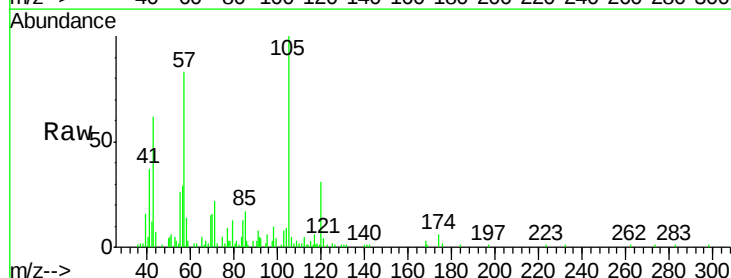
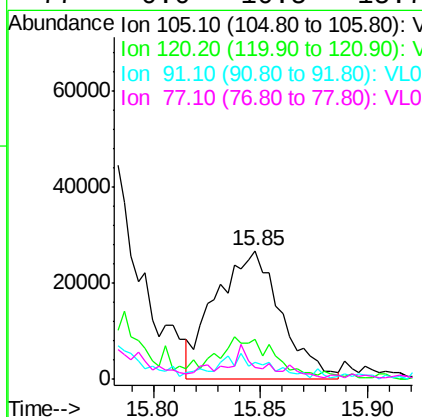
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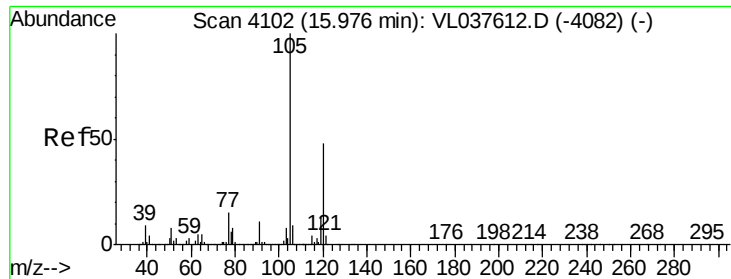
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#72
 4-Ethyltoluene
 Concen: 0.110 ppbv m
 RT: 15.85 min Scan# 4062
 Delta R.T. 0.03 min
 Lab File: VL037690.D
 Acq: 27 Sep 2021 21:15

Tgt Ion: 105 Resp: 56252
 Ion Ratio Lower Upper
 105 100
 120 0.0 24.7 37.1#
 91 0.0 9.9 14.9#
 77 0.0 10.5 15.7#





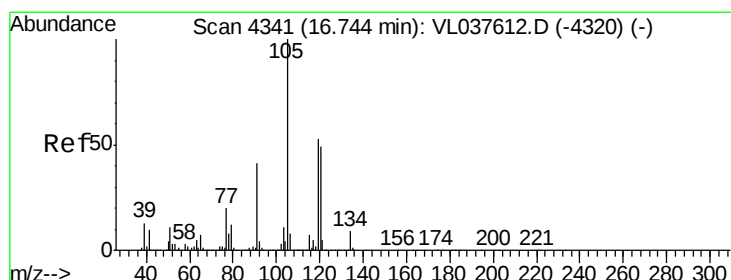
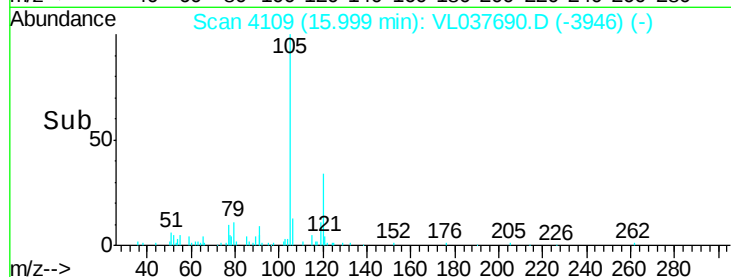
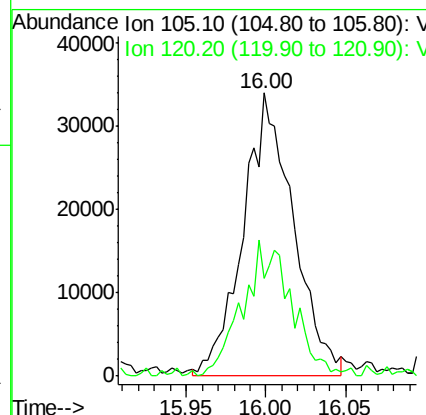
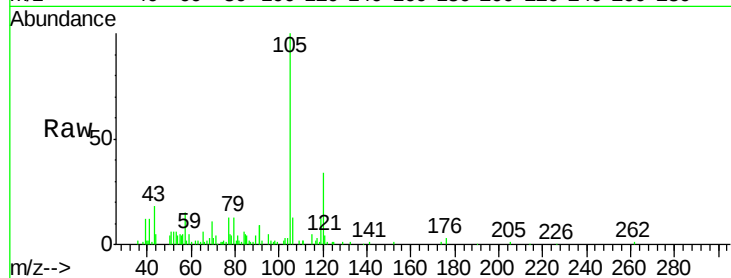
#73
 1,3,5-Trimethylbenzene
 Concen: 0.156 ppbv
 RT: 16.00 min Scan# 4109
 Delta R.T. 0.02 min
 Lab File: VL037690.D
 Acq: 27 Sep 2021 21:15

Instrument :
 MSVOA_L
 ClientSampled :
 SV2

Tgt Ion:105 Resp: 74476
 Ion Ratio Lower Upper
 105 100
 120 34.5 38.3 57.5#

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#74
 1,2,4-Trimethylbenzene
 Concen: 0.552 ppbv
 RT: 16.77 min Scan# 4348
 Delta R.T. 0.02 min
 Lab File: VL037690.D
 Acq: 27 Sep 2021 21:15

Tgt Ion:105 Resp: 278031
 Ion Ratio Lower Upper
 105 100
 120 44.3 39.4 59.0
 91 10.0 33.3 49.9#
 77 11.4 15.7 23.5#

