

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121020\
 Data File : VL036148.D
 Acq On : 11 Dec 2020 4:09
 Operator : SY/AP
 Sample : L5005-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 48-2

Manual Integrations
 APPROVED

MMDadoda
 12/15/2020 7:23:23 PM

Quant Time: Dec 14 22:36:47 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 0
 QLast Update : Mon Dec 07 16:56:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1303049	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.16	114	2613087	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.07	117	2322104	10.00	ppbv	-0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1995423	10.82	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	43662m	0.288	ppbv	
3) Chlorodifluoromethane	2.97	51	152925	1.029	ppbv #	84
4) Chloromethane	3.13	50	66136m	0.906	ppbv	
9) Propene	3.00	41	445432	5.981	ppbv	89
10) Heptane	8.10	43	32466m	0.171	ppbv	
11) Trichlorofluoromethane	3.93	101	42386	0.237	ppbv #	82
13) Ethanol	3.60	45	6133122	597.368	ppbv	85
15) Acetone	3.84	43	1919111	12.254	ppbv	95
20) Methylene Chloride	4.33	84	1122094	17.485	ppbv	94
25) Ethyl Acetate	5.66	43	1090598	3.486	ppbv #	94
26) Hexane	5.67	57	773298	5.492	ppbv #	64
29) Chloroform	5.74	83	51084m	0.276	ppbv	
34) 2-Butanone	5.24	43	69225	0.399	ppbv	94
35) Carbon Tetrachloride	7.00	117	13811m	0.091	ppbv	
36) Benzene	6.88	78	64452	0.291	ppbv #	87
44) 2,2,4-Trimethylpentane	7.86	57	50268	0.125	ppbv #	69
52) Tetrachloroethene	11.21	164	15098m	0.188	ppbv	
53) Toluene	9.79	91	362167	1.456	ppbv	99
58) Ethyl Benzene	12.70	91	38790m	0.122	ppbv	
59) m/p-Xylene	12.96	91	114124m	0.426	ppbv	
60) o-Xylene	13.68	91	45124m	0.179	ppbv	

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

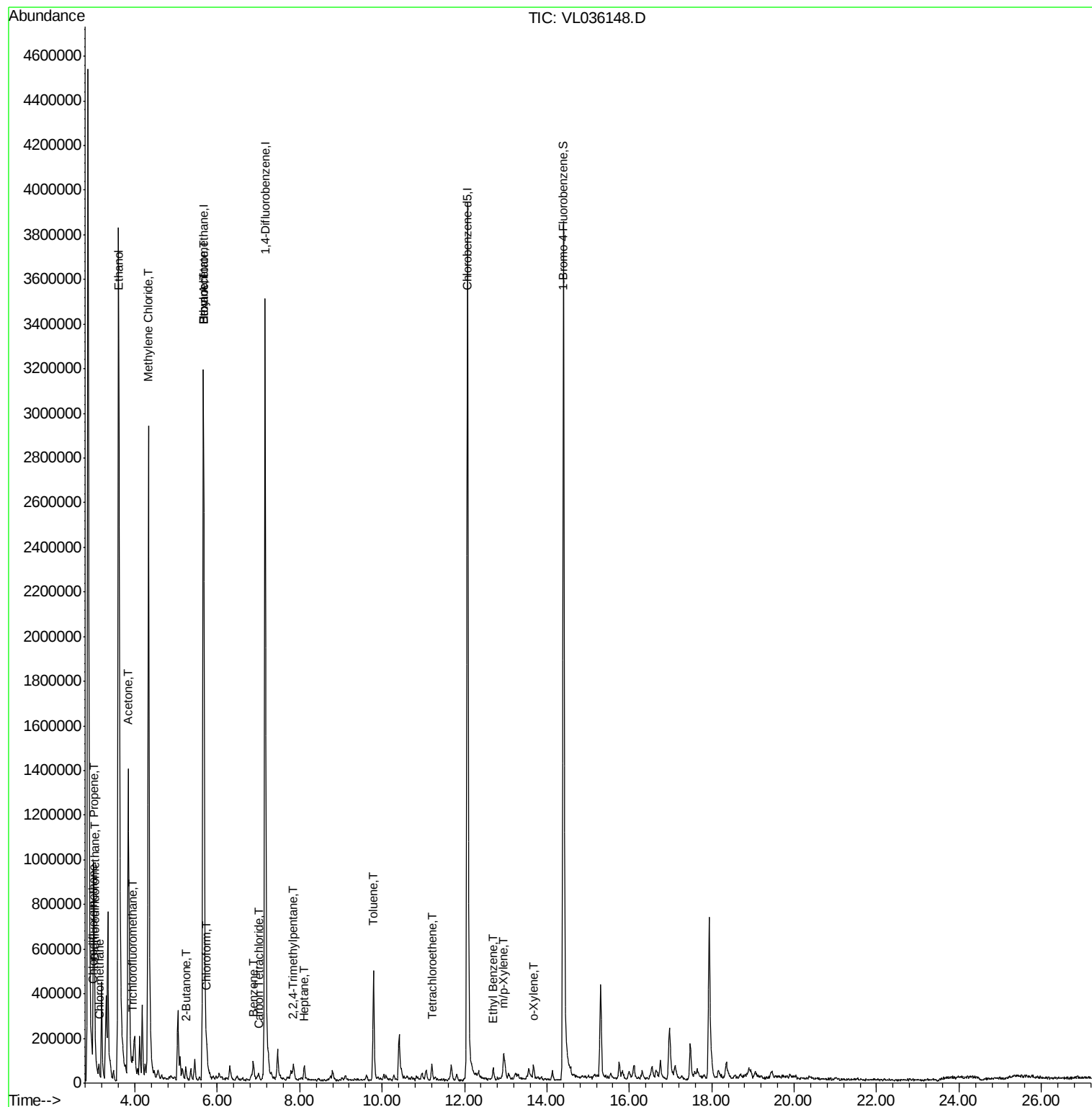
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL121020\
Data File : VL036148.D
Acq On : 11 Dec 2020 4:09
Operator : SY/AP
Sample : L5005-02
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

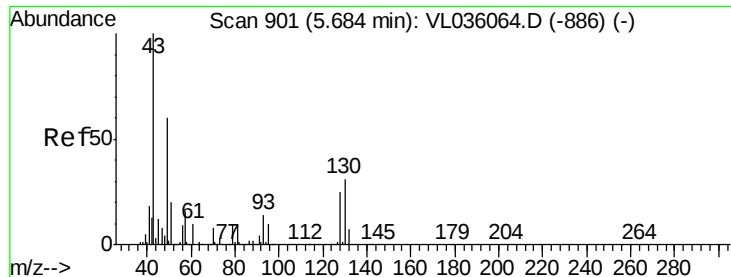
Instrument :
MSVOA_L
ClientSampled :
48-2

Manual Integrations
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Quant Time: Dec 14 22:36:47 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec
QLast Update : Mon Dec 07 16:56:49 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.03 min

Lab File: VL036148.D

Acq: 11 Dec 2020 4:09

Instrument :

MSVOA_L

ClientSampled :

48-2

Tot Ion: 49 Resp: 1303049

Ion Ratio Lower Upper

49 100

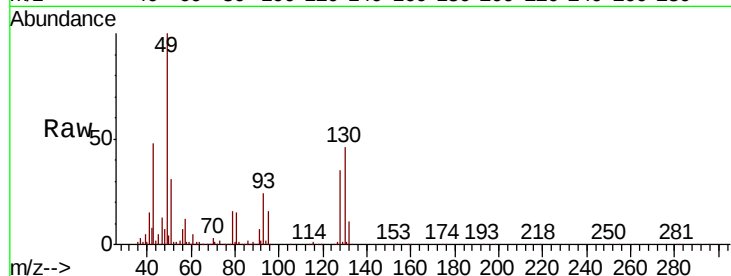
128 35.2 21.1 63.1

130 46.1 27.1 81.3

Manual Integrations
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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

800000

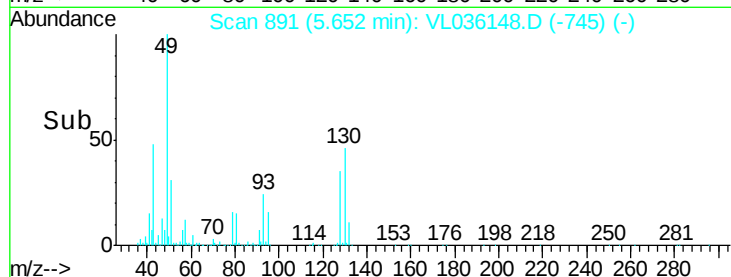
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400000

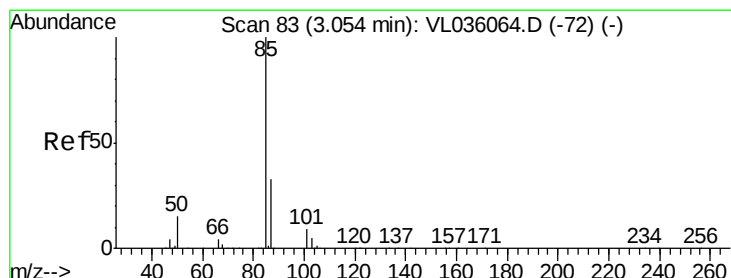
200000

0

Time-->



5.65



#2

Dichlorodifluoromethane

Concen: 0.288 ppbv m

RT: 3.03 min Scan# 77

Delta R.T. -0.02 min

Lab File: VL036148.D

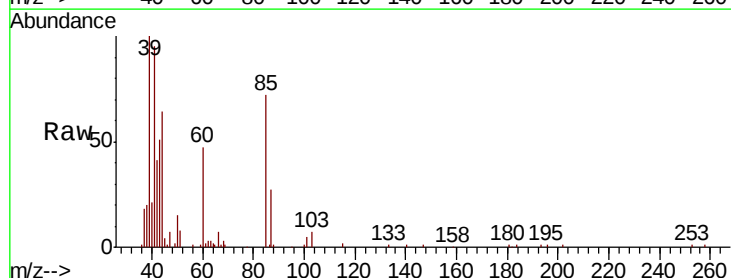
Acq: 11 Dec 2020 4:09

Tgt Ion: 85 Resp: 43662

Ion Ratio Lower Upper

85 100

87 36.8 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

30000

25000

20000

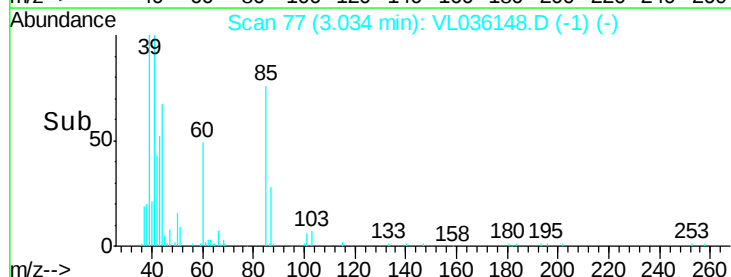
15000

10000

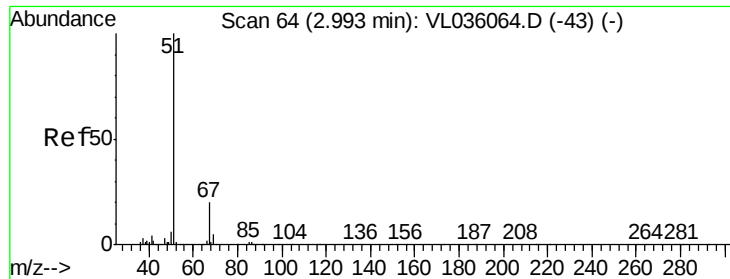
5000

0

Time-->



3.03



#3

Chlorodifluoromethane

Concen: 1.029 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.02 min

Lab File: VL036148.D

Acq: 11 Dec 2020 4:09

Instrument :

MSVOA_L

ClientSampled :

48-2

Tot Ion: 51 Resp: 152925

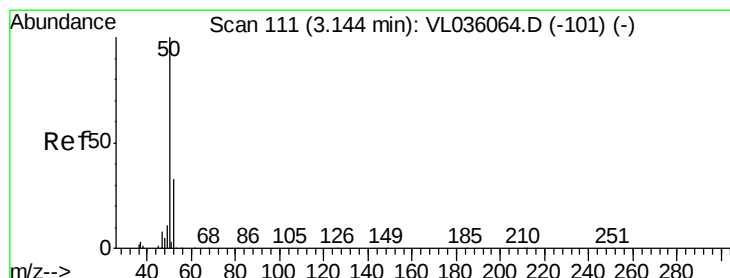
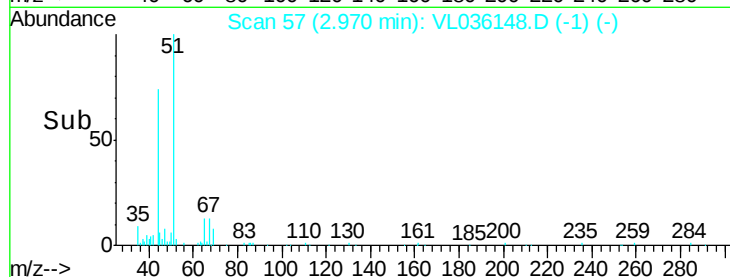
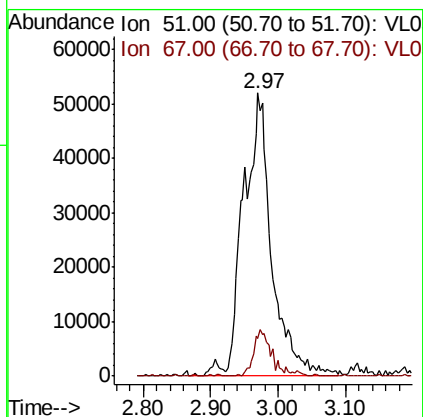
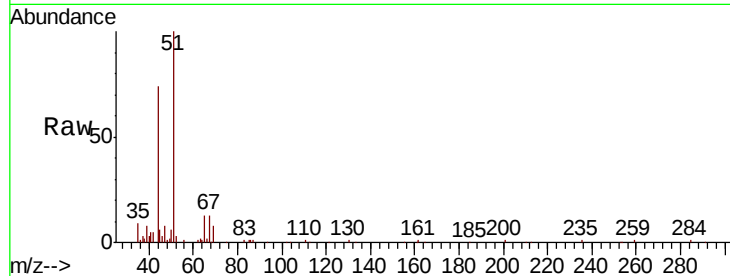
Ion Ratio Lower Upper

51 100

67 10.8 14.3 21.5#

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#4

Chloromethane

Concen: 0.906 ppbv m

RT: 3.13 min Scan# 106

Delta R.T. -0.02 min

Lab File: VL036148.D

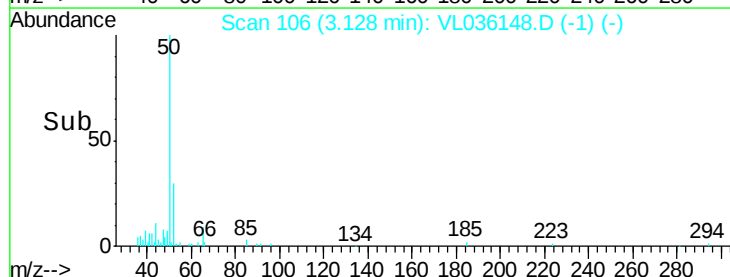
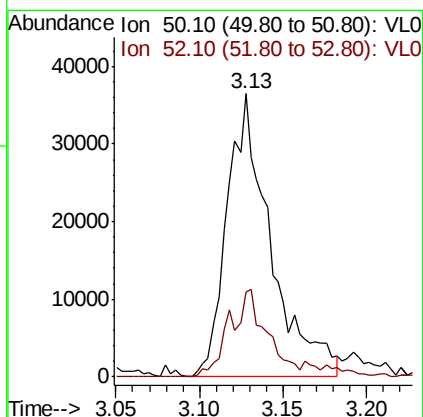
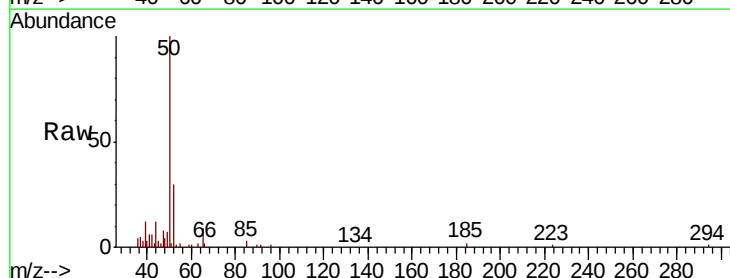
Acq: 11 Dec 2020 4:09

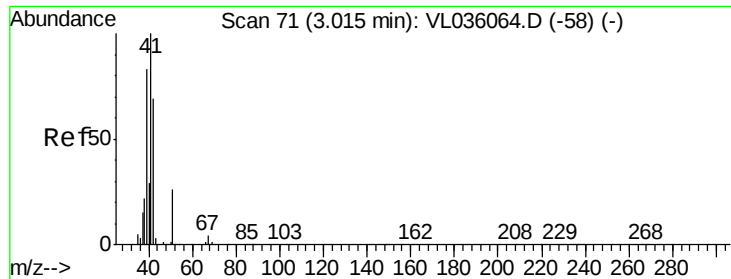
Tgt Ion: 50 Resp: 66136

Ion Ratio Lower Upper

50 100

52 29.9 26.1 39.1





#9

Propene

Concen: 5.981 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.02 min

Lab File: VL036148.D

Acq: 11 Dec 2020 4:09

Instrument :

MSVOA_L

ClientSampled :

48-2

Tot Ion: 41 Resp: 445432

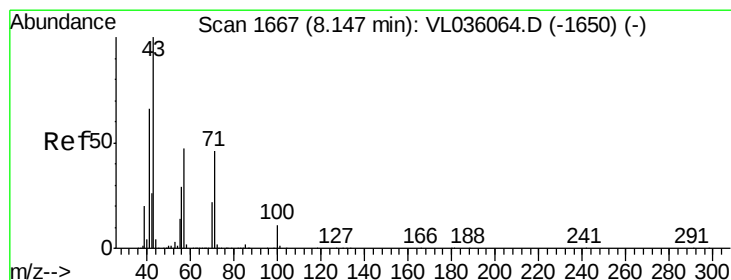
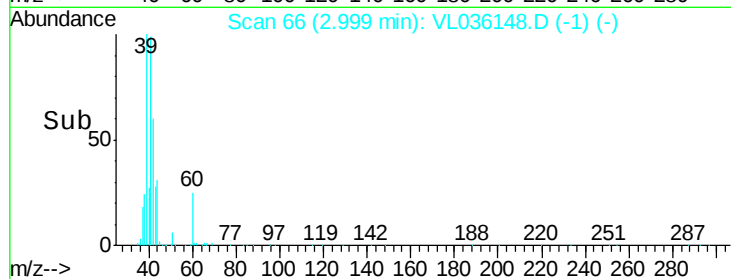
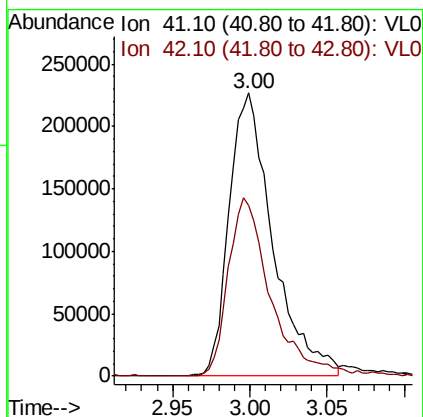
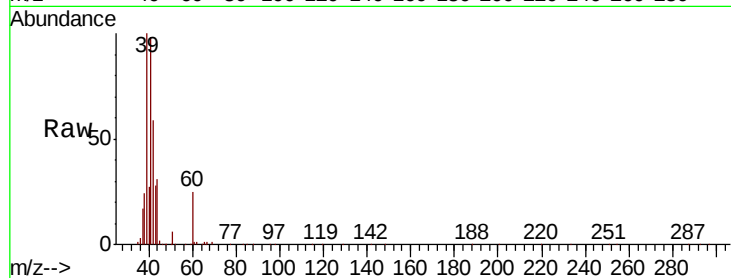
Ion Ratio Lower Upper

41 100

42 62.0 57.0 85.6

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#10

Heptane

Concen: 0.171 ppbv m

RT: 8.10 min Scan# 1652

Delta R.T. -0.05 min

Lab File: VL036148.D

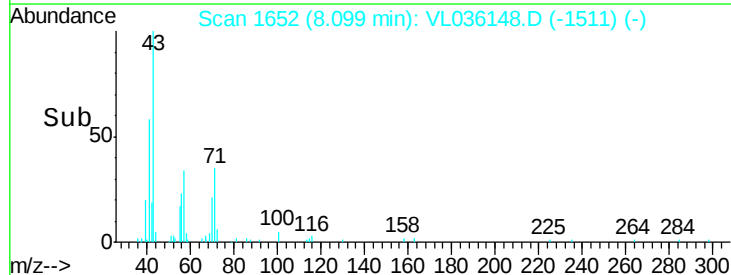
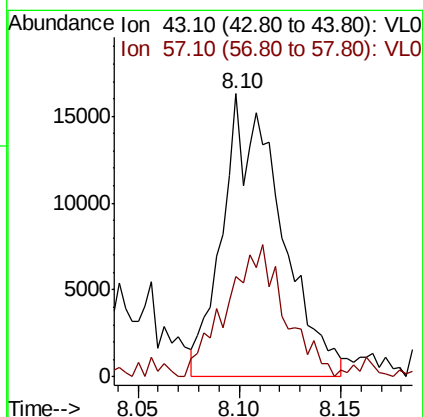
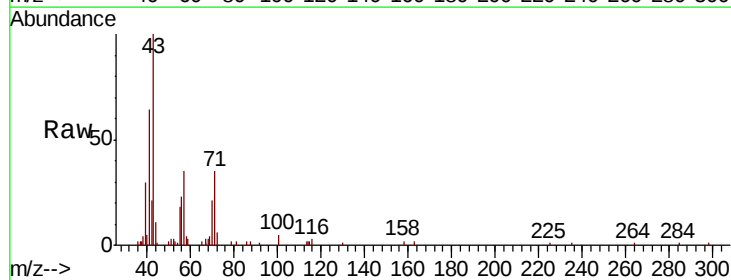
Acq: 11 Dec 2020 4:09

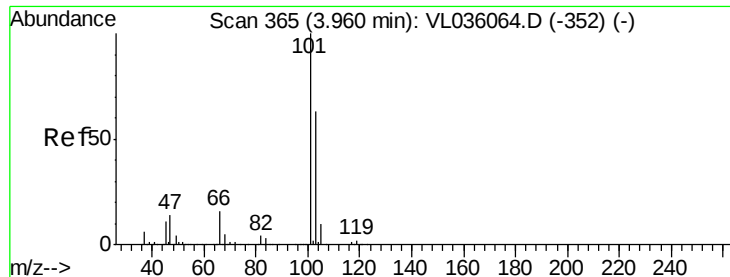
Tgt Ion: 43 Resp: 32466

Ion Ratio Lower Upper

43 100

57 0.0 37.9 56.9#





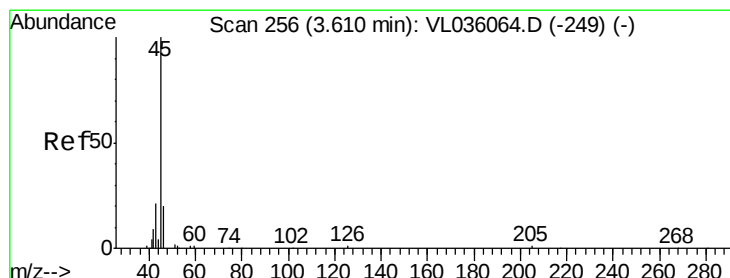
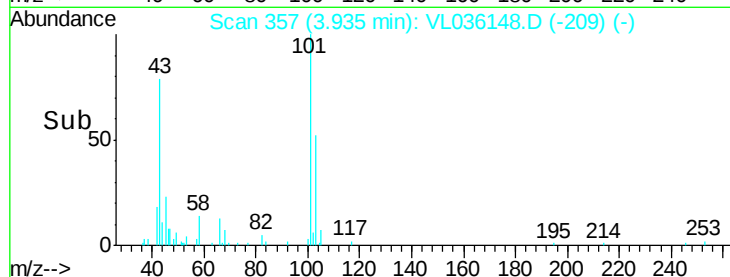
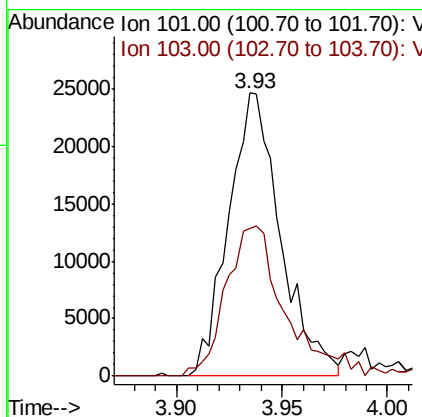
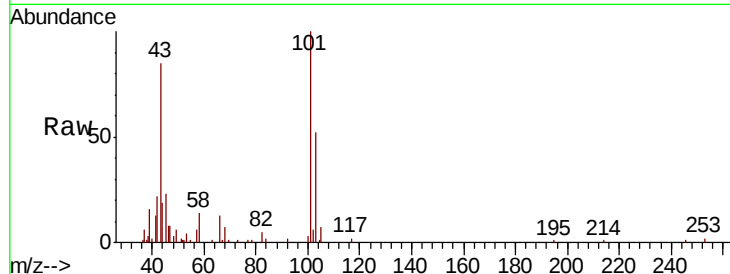
#11
 Trichlorofluoromethane
 Concen: 0.237 ppbv
 RT: 3.93 min Scan# 357
 Delta R.T. -0.03 min
 Lab File: VL036148.D
 Acq: 11 Dec 2020 4:09

Instrument :
 MSVOA_L
 ClientSampleId :
 48-2

Tot Ion: 101 Resp: 42386
 Ion Ratio Lower Upper
 101 100
 103 49.3 50.3 75.5#

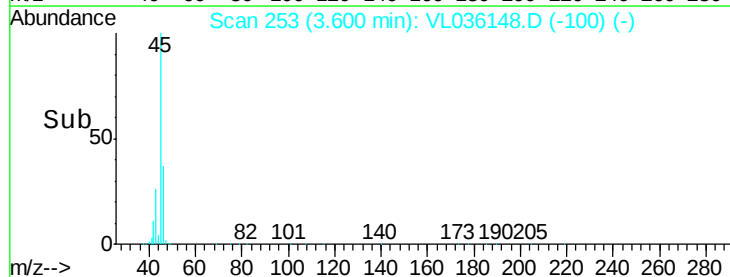
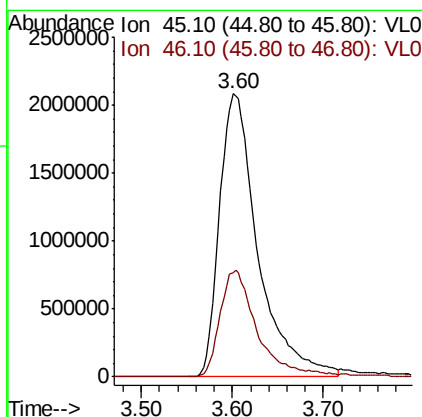
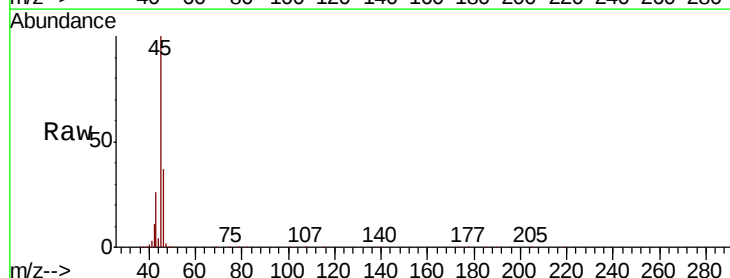
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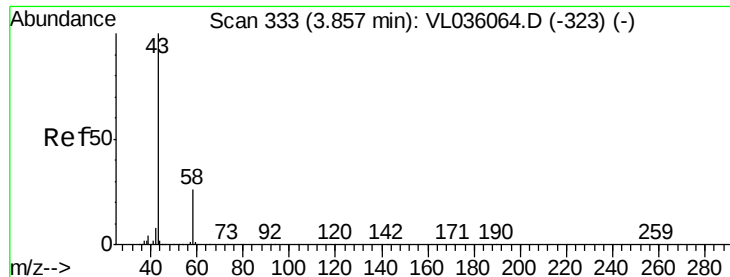
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#13
 Ethanol
 Concen: 597.368 ppbv
 RT: 3.60 min Scan# 253
 Delta R.T. -0.01 min
 Lab File: VL036148.D
 Acq: 11 Dec 2020 4:09

Tgt Ion: 45 Resp: 6133122
 Ion Ratio Lower Upper
 45 100
 46 37.3 19.0 75.8





#15

Acetone

Concen: 12.254 ppbv

RT: 3.84 min Scan# 326

Delta R.T. -0.02 min

Lab File: VL036148.D

Acq: 11 Dec 2020 4:09

Tot Ion: 43 Resp: 1919111

Ion Ratio Lower Upper

43 100

58 23.6 20.9 31.3

Instrument :

MSVOA_L

ClientSampled :

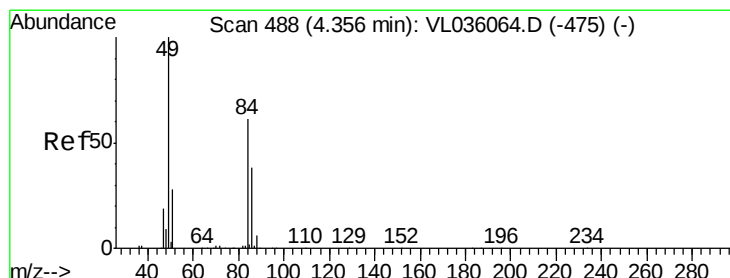
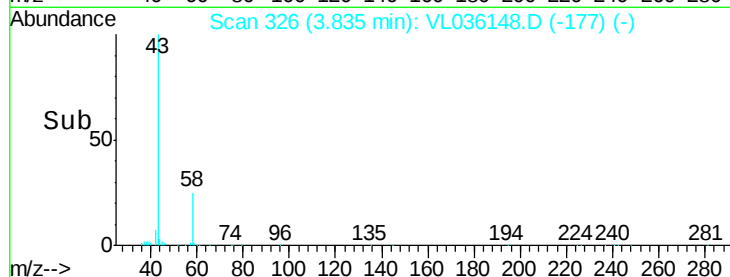
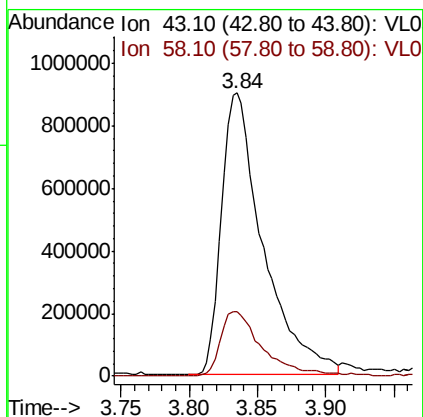
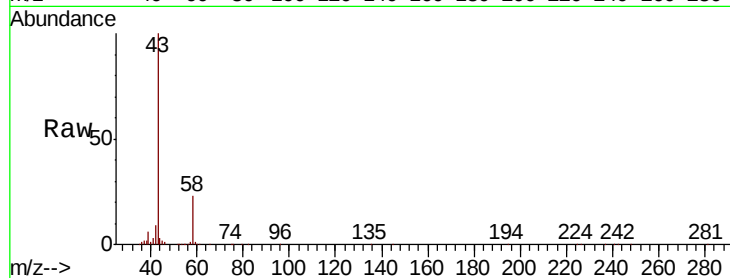
48-2

Manual Integrations

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#20

Methylene Chloride

Concen: 17.485 ppbv

RT: 4.33 min Scan# 479

Delta R.T. -0.03 min

Lab File: VL036148.D

Acq: 11 Dec 2020 4:09

Tgt Ion: 84 Resp: 1122094

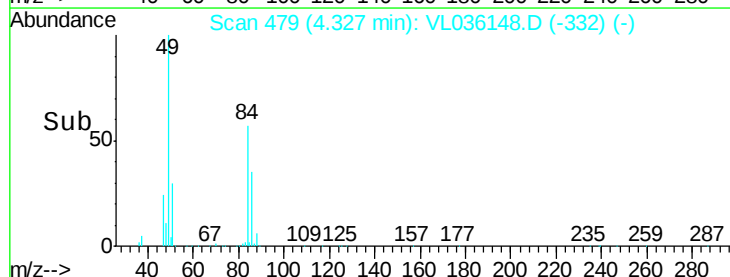
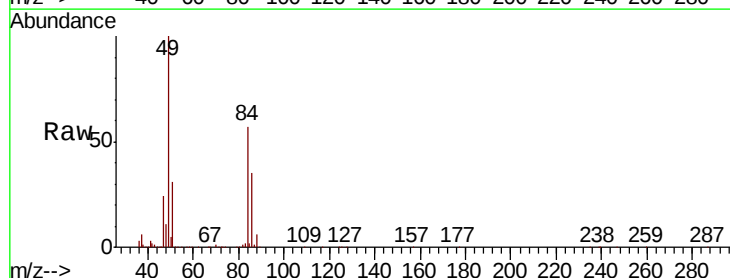
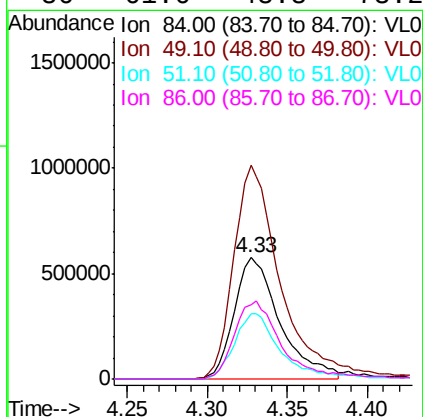
Ion Ratio Lower Upper

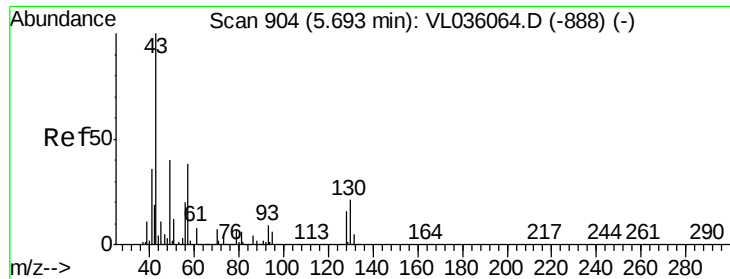
84 100

49 176.0 133.0 199.4

51 53.6 38.9 58.3

86 61.6 48.8 73.2





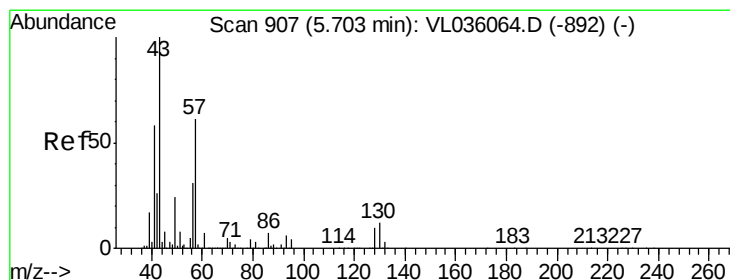
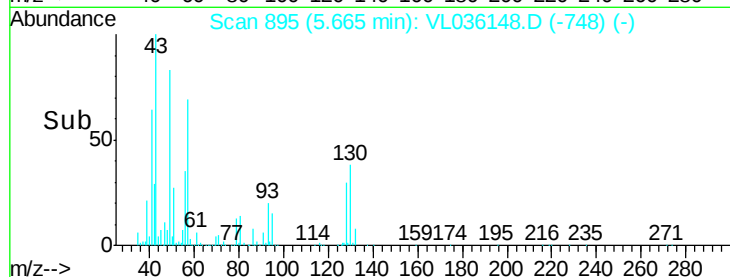
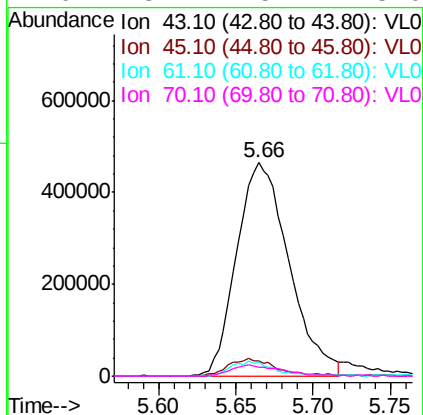
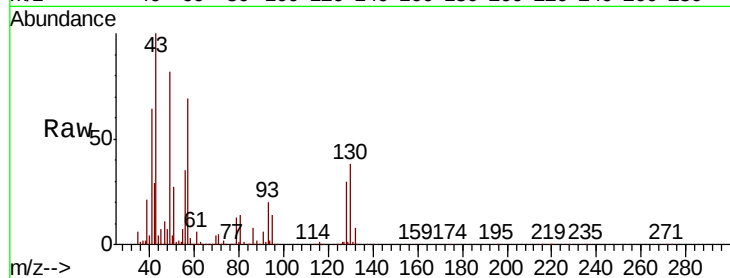
#25
Ethyl Acetate
Concen: 3.486 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.03 min
Lab File: VL036148.D
Acq: 11 Dec 2020 4:09

Instrument :
MSVOA_L
ClientSampled :
48-2

Tot Ion: 43 Resp: 1090598
Ion Ratio Lower Upper
43 100
45 7.9 8.2 12.4#
61 6.2 7.4 11.2#
70 5.4 5.4 8.0

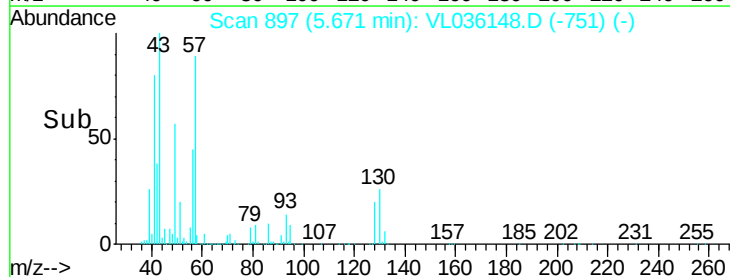
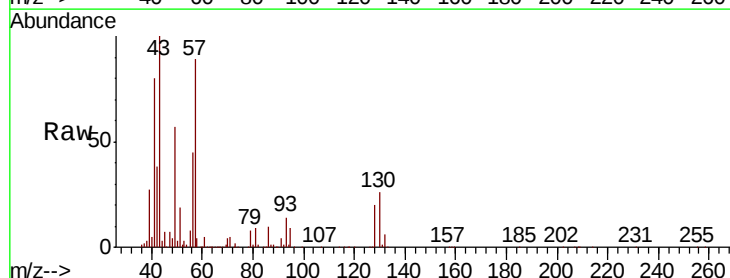
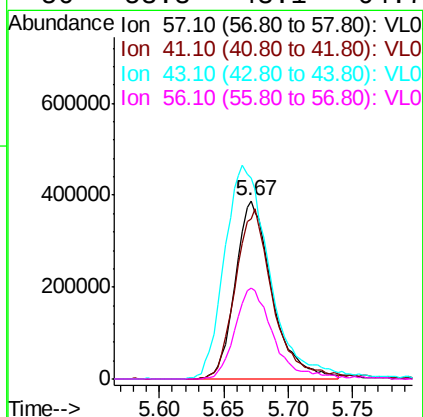
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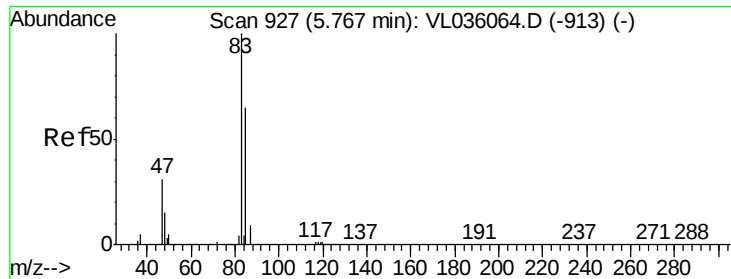
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#26
Hexane
Concen: 5.492 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.03 min
Lab File: VL036148.D
Acq: 11 Dec 2020 4:09

Tgt Ion: 57 Resp: 773298
Ion Ratio Lower Upper
57 100
41 98.4 82.9 124.3
43 150.6 199.9 299.9#
56 53.3 43.1 64.7





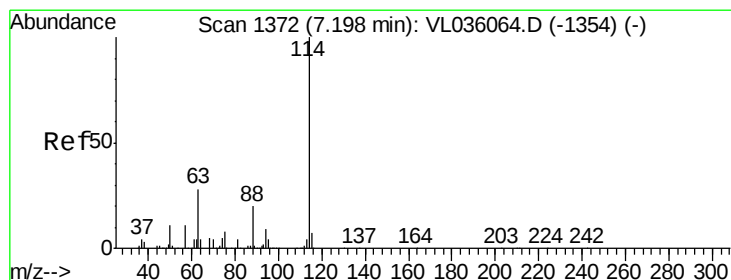
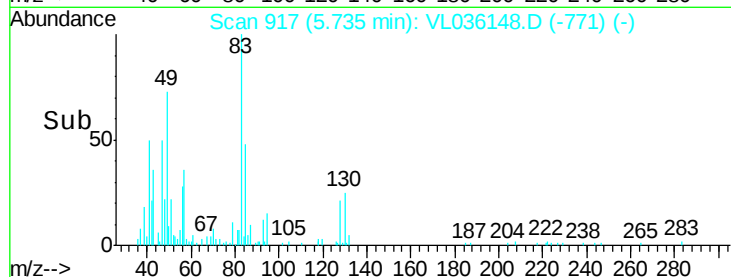
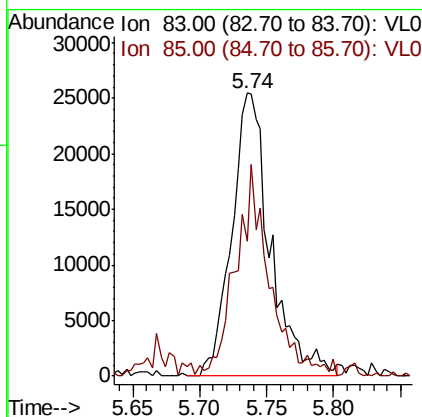
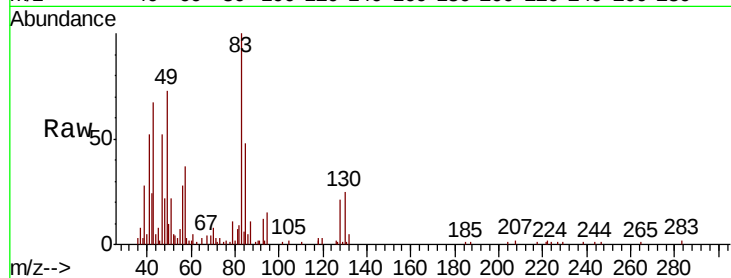
#29
Chloroform
Concen: 0.276 ppbv m
RT: 5.74 min Scan# 917
Delta R.T. -0.03 min
Lab File: VL036148.D
Acq: 11 Dec 2020 4:09

Instrument :
MSVOA_L
ClientSampled :
48-2

Tot Ion: 83 Resp: 51084
Ion Ratio Lower Upper
83 100
85 47.6 51.8 77.6#

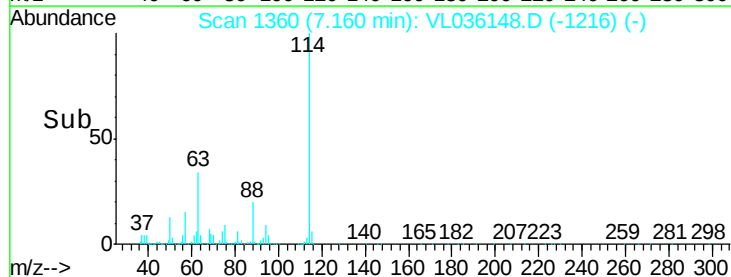
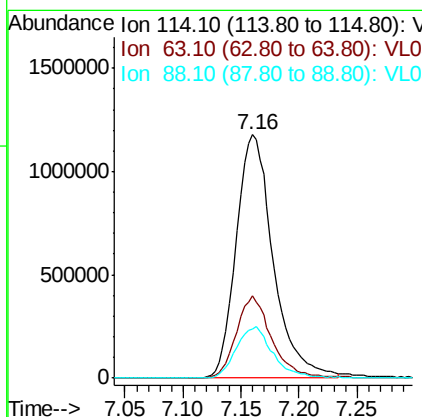
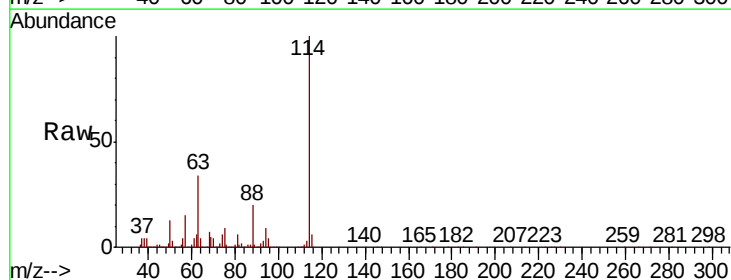
Manual Integrations
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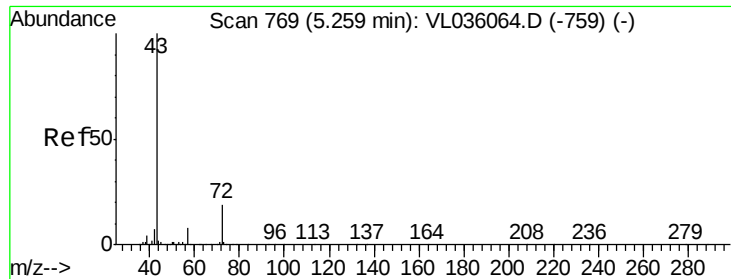
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. -0.04 min
Lab File: VL036148.D
Acq: 11 Dec 2020 4:09

Tgt Ion: 114 Resp: 2613087
Ion Ratio Lower Upper
114 100
63 32.9 23.6 35.4
88 21.3 15.8 23.6





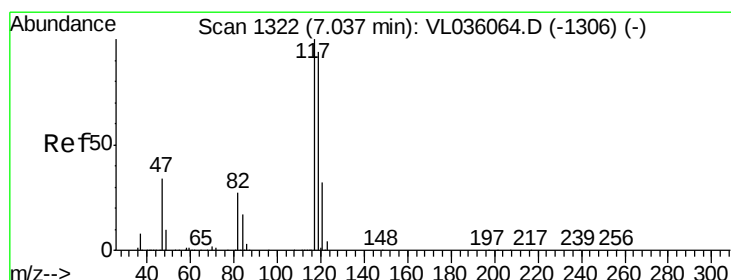
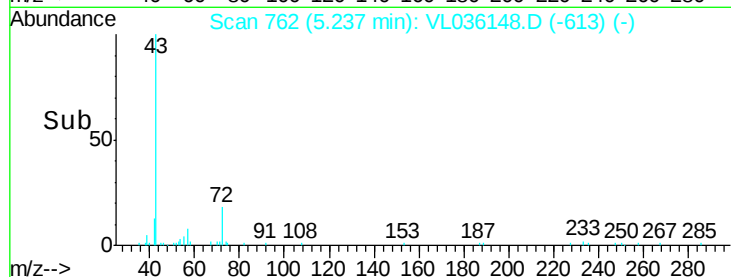
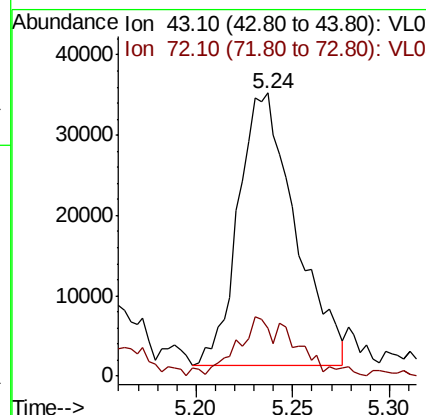
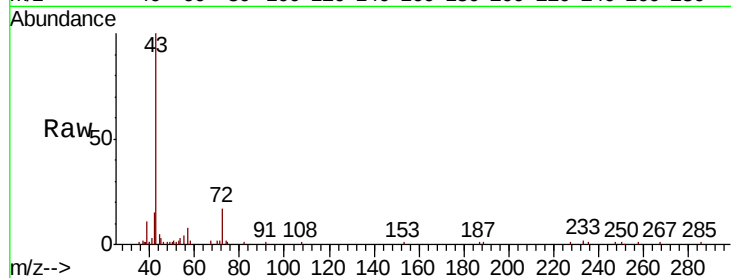
#34
2-Butanone
Concen: 0.399 ppbv
RT: 5.24 min Scan# 762
Delta R.T. -0.02 min
Lab File: VL036148.D
Acq: 11 Dec 2020 4:09

Instrument :
MSVOA_L
ClientSampled :
48-2

Tot Ion	43	Resp	69225
Ion Ratio	100	Lower	Upper
72	23.3	16.5	24.7

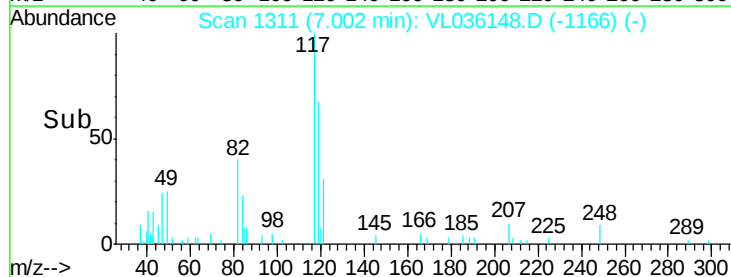
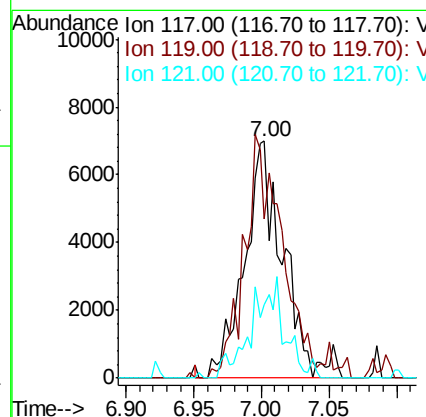
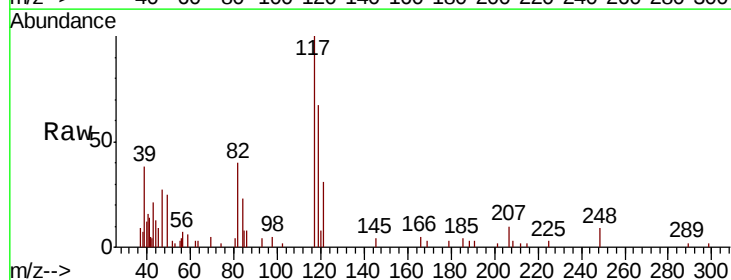
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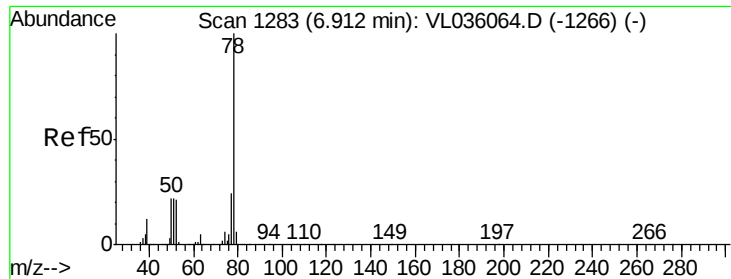
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#35
Carbon Tetrachloride
Concen: 0.091 ppbv m
RT: 7.00 min Scan# 1311
Delta R.T. -0.04 min
Lab File: VL036148.D
Acq: 11 Dec 2020 4:09

Tgt Ion	117	Resp	13811
Ion Ratio	100	Lower	Upper
119	67.3	75.1	112.7#
121	30.8	25.6	38.4





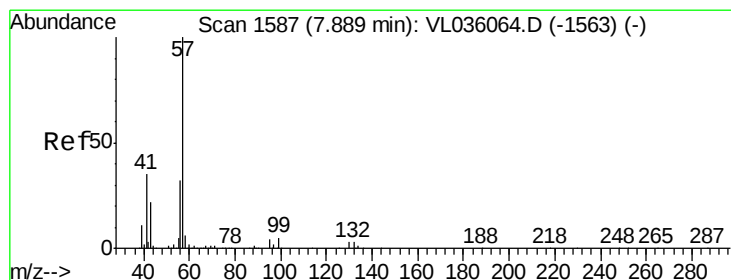
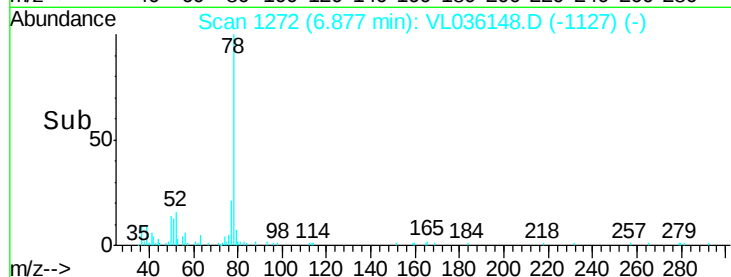
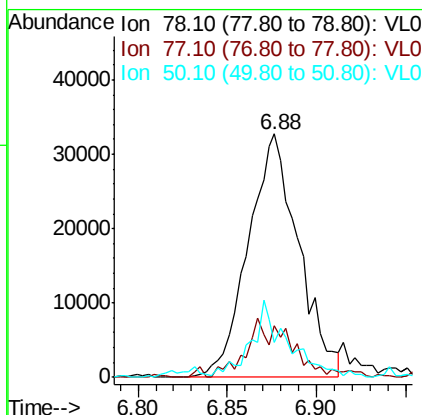
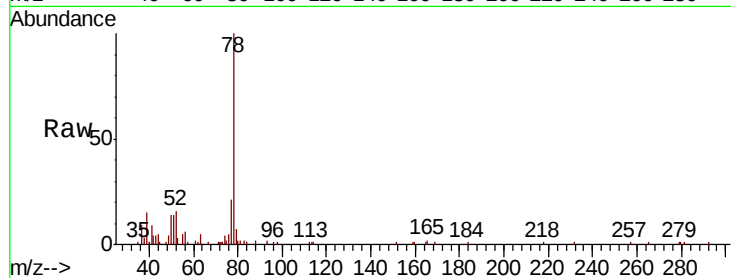
#36
Benzene
Concen: 0.291 ppbv
RT: 6.88 min Scan# 1272
Delta R.T. -0.04 min
Lab File: VL036148.D
Acq: 11 Dec 2020 4:09

Instrument :
MSVOA_L
ClientSampled :
48-2

Tot Ion	Ratio	Lower	Upper
78	100		
77	21.4	19.4	29.2
50	12.0	17.8	26.8#

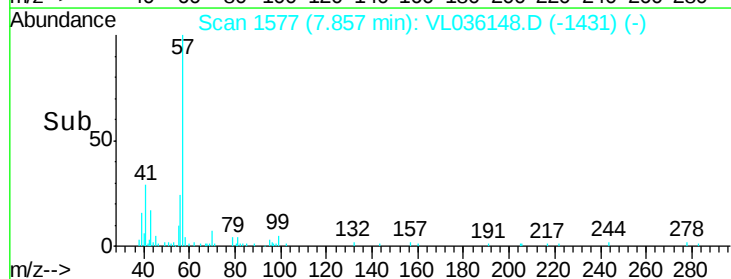
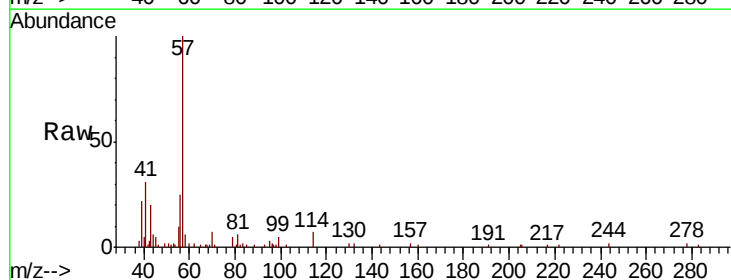
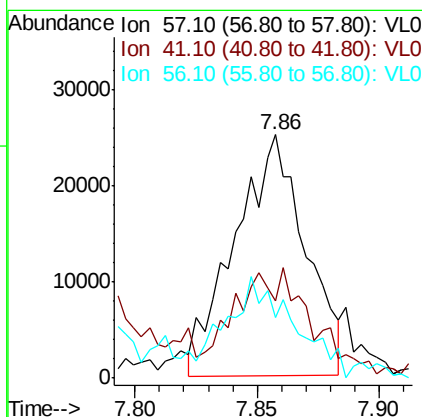
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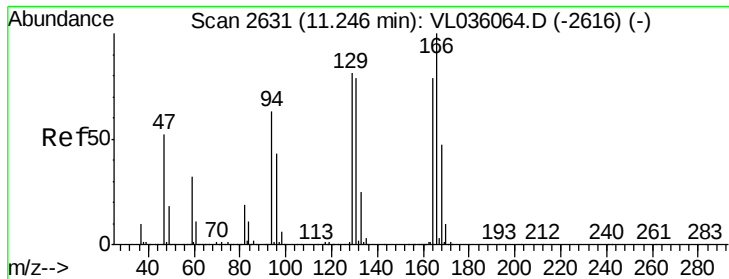
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#44
2,2,4-Trimethylpentane
Concen: 0.125 ppbv
RT: 7.86 min Scan# 1577
Delta R.T. -0.03 min
Lab File: VL036148.D
Acq: 11 Dec 2020 4:09

Tgt Ion	Ratio	Lower	Upper
57	100		
41	52.6	28.9	43.3#
56	50.8	25.3	37.9#





#52

Tetrachloroethene

Concen: 0.188 ppbv m

RT: 11.21 min Scan# 2620

Delta R.T. -0.04 min

Lab File: VL036148.D

Acq: 11 Dec 2020 4:09

Instrument :

MSVOA_L

ClientSampleId :

48-2

Tot Ion:164 Resp: 15098

Ion Ratio Lower Upper

164 100

166 130.8 101.9 152.9

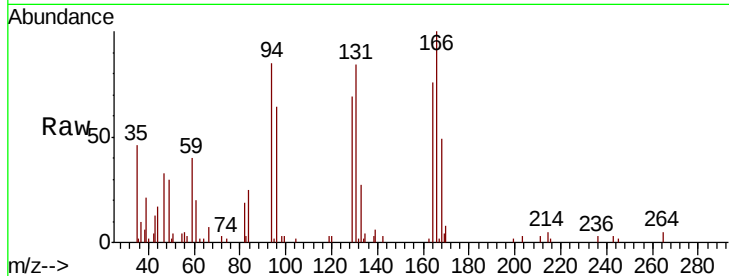
129 90.3 82.1 123.1

131 109.6 80.8 121.2

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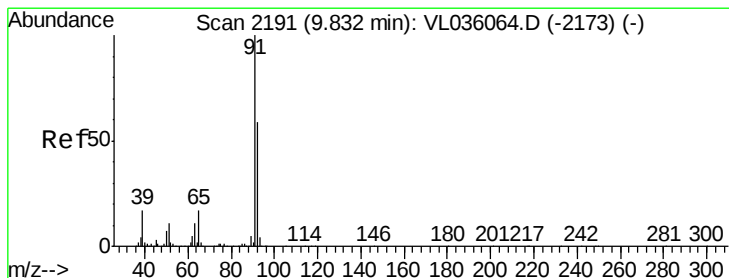
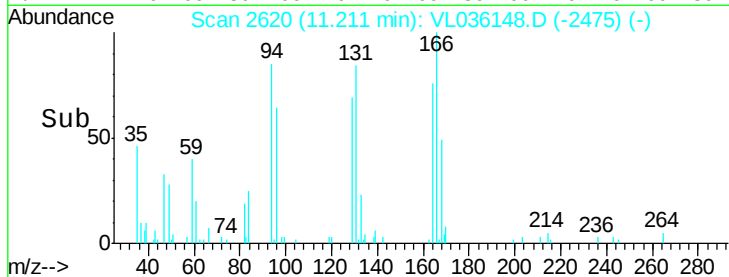
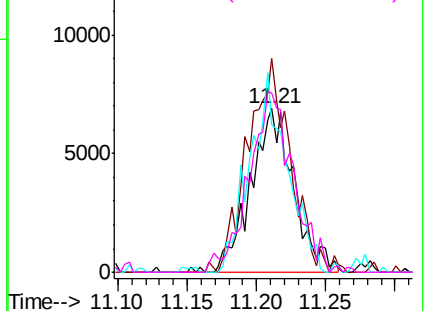


Abundance Ion 163.90 (163.60 to 164.60): V

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: 1.456 ppbv

RT: 9.79 min Scan# 2179

Delta R.T. -0.04 min

Lab File: VL036148.D

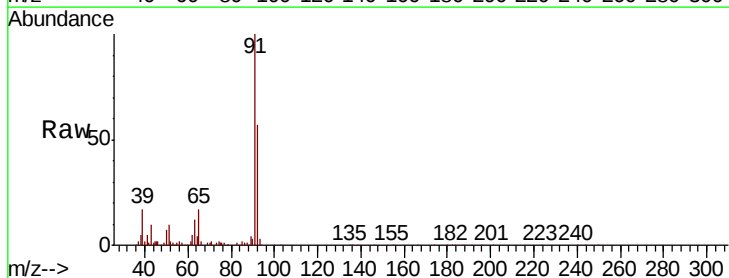
Acq: 11 Dec 2020 4:09

Tgt Ion: 91 Resp: 362167

Ion Ratio Lower Upper

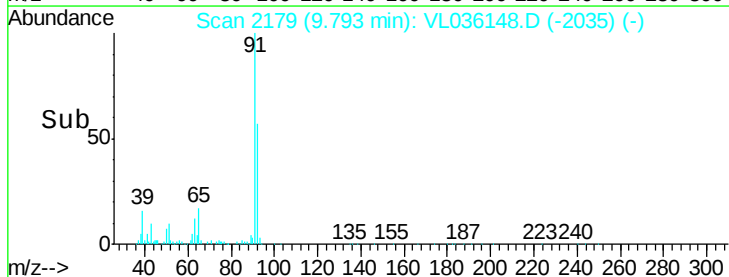
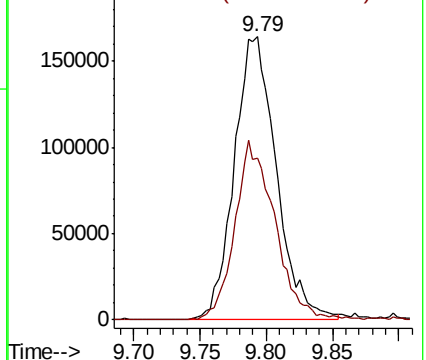
91 100

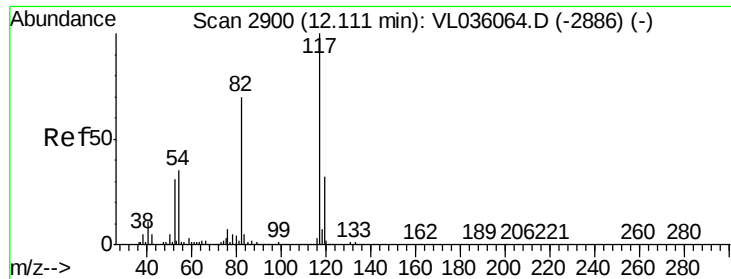
92 61.1 48.2 72.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





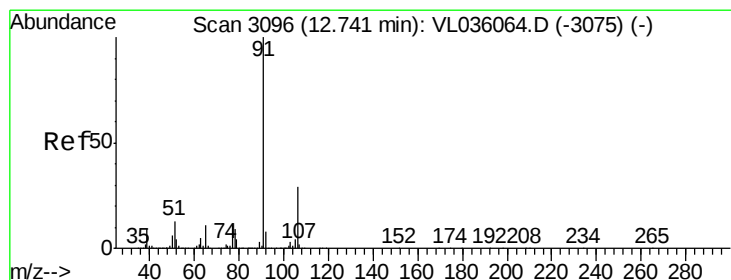
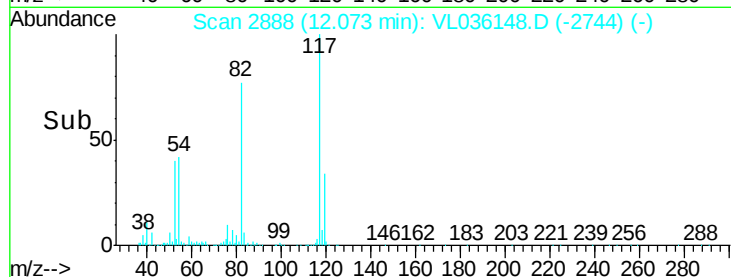
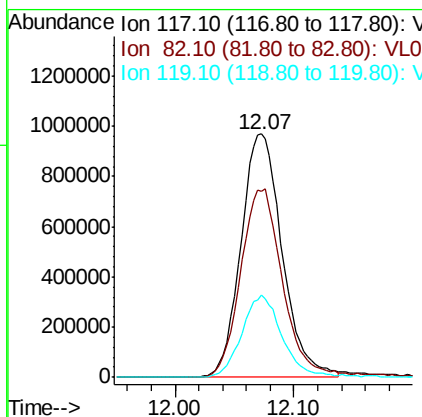
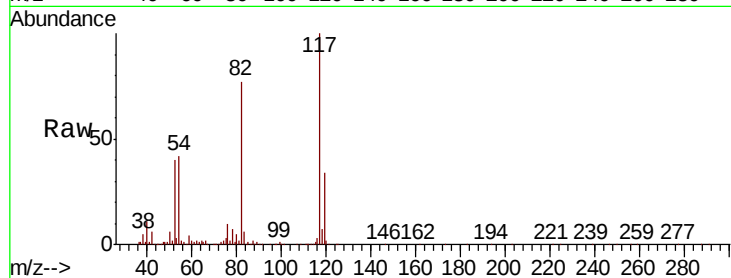
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2888
Delta R.T. -0.04 min
Lab File: VL036148.D
Acq: 11 Dec 2020 4:09

Instrument :
MSVOA_L
ClientSampleId :
48-2

Tot Ion	Ratio	Lower	Upper
117	100		
82	80.3	0.0	0.0#
119	33.7	0.0	0.0#

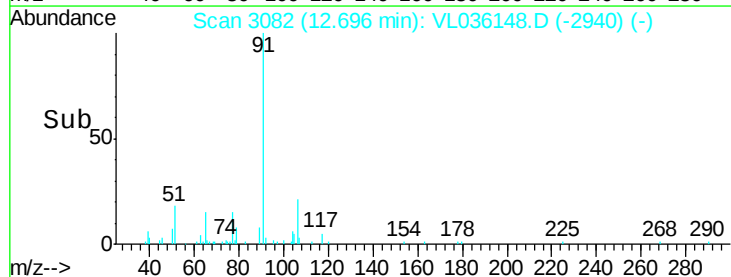
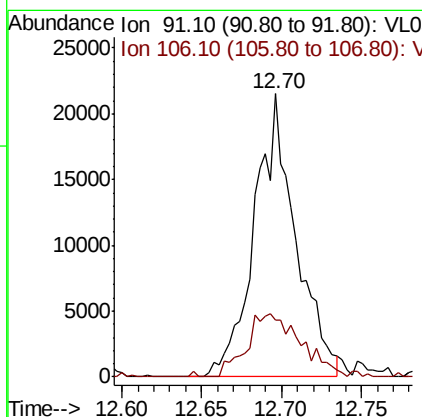
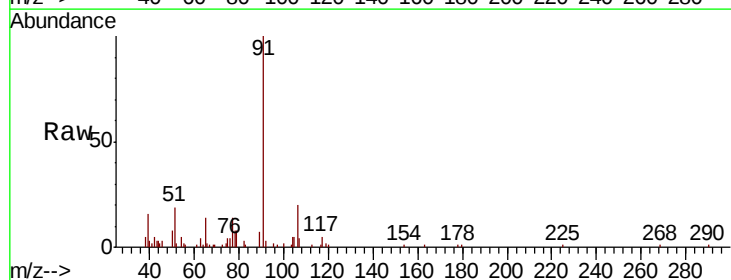
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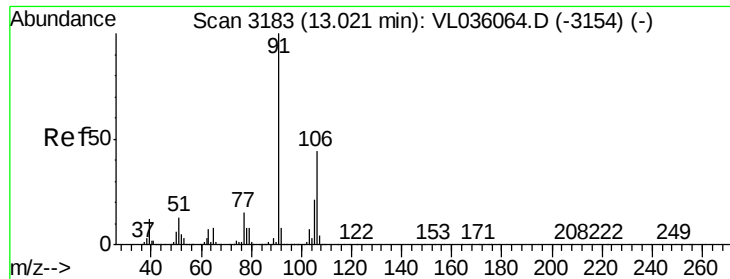
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#58
Ethyl Benzene
Concen: 0.122 ppbv m
RT: 12.70 min Scan# 3082
Delta R.T. -0.04 min
Lab File: VL036148.D
Acq: 11 Dec 2020 4:09

Tgt Ion	Ratio	Lower	Upper
91	100		
106	20.1	23.0	34.4#





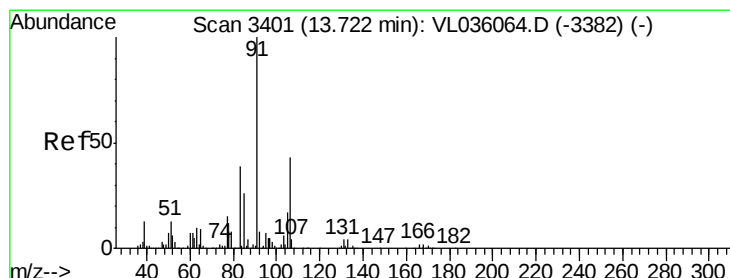
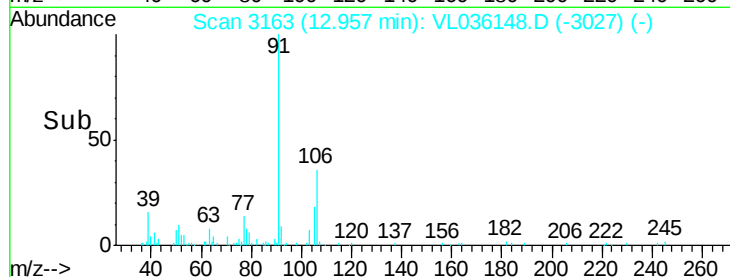
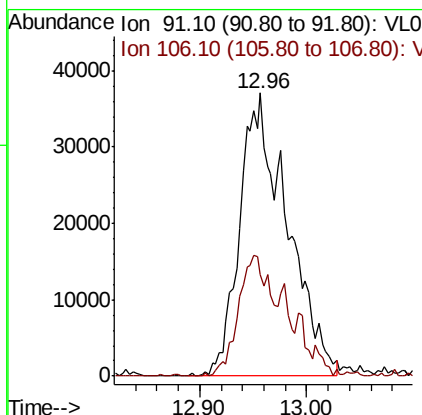
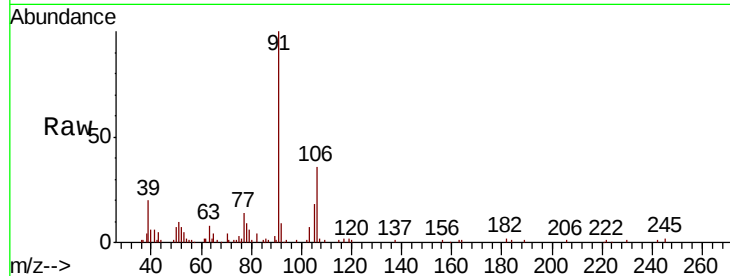
#59
m/p-Xylene
Concen: 0.426 ppbv m
RT: 12.96 min Scan# 3163
Delta R.T. -0.06 min
Lab File: VL036148.D
Acq: 11 Dec 2020 4:09

Instrument :
MSVOA_L
ClientSampled :
48-2

Tot Ion: 91 Resp: 114124
Ion Ratio Lower Upper
91 100
106 0.0 33.6 50.4#

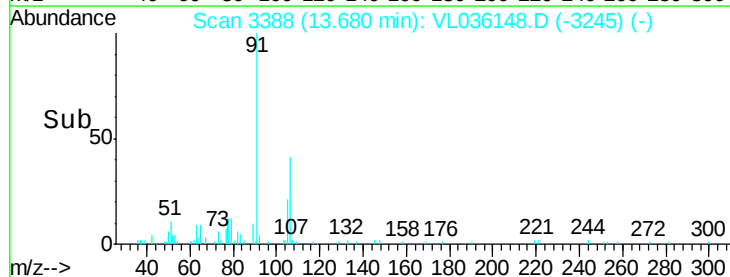
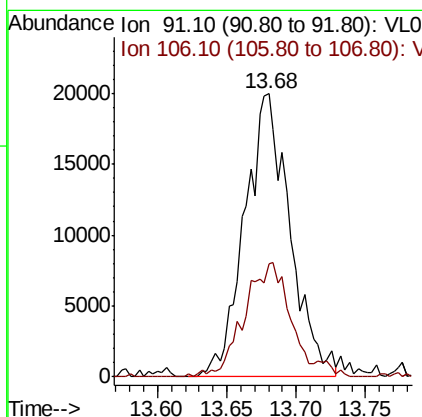
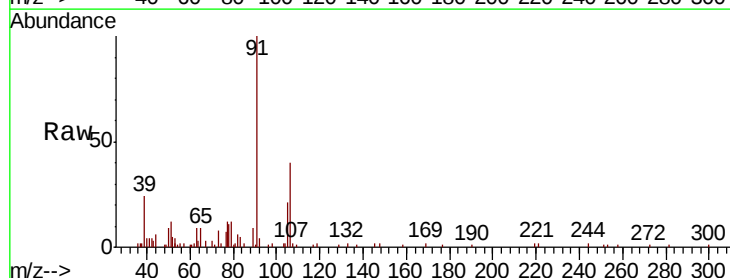
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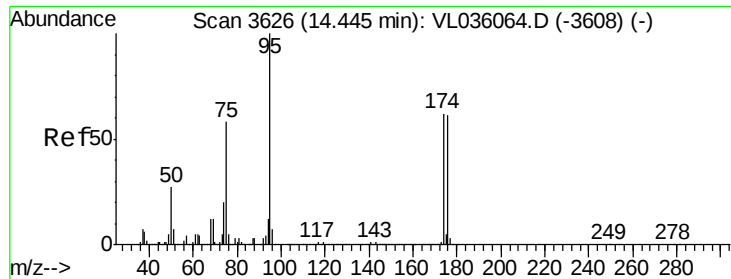
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#60
o-Xylene
Concen: 0.179 ppbv m
RT: 13.68 min Scan# 3388
Delta R.T. -0.04 min
Lab File: VL036148.D
Acq: 11 Dec 2020 4:09

Tgt Ion: 91 Resp: 45124
Ion Ratio Lower Upper
91 100
106 42.5 21.6 64.6





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.822 ppbv
 RT: 14.40 min Scan# 3612
 Delta R.T. -0.04 min
 Lab File: VL036148.D
 Acq: 11 Dec 2020 4:09

Instrument :
 MSVOA_L
 ClientSampleId :
 48-2

Tot Ion: 95 Resp: 1995423
 Ion Ratio Lower Upper
 95 100
 174 55.8 50.7 76.1
 175 4.2 4.0 6.0

Manual Integrations
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