

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111620\
 Data File : VL035957.D
 Acq On : 16 Nov 2020 23:52
 Operator : SY/AP
 Sample : L4722-06
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-6

Manual Integrations
 APPROVED

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 11/18/2020 2:11:30 PM

Quant Time: Nov 17 22:20:54 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 0
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1207534	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4243675	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3941844	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2977554	10.63	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	63434	0.279	ppbv	88
3) Chlorodifluoromethane	2.98	51	419864	2.904	ppbv #	89
4) Chloromethane	3.14	50	40554	0.577	ppbv	98
9) Propene	3.02	41	84058	1.588	ppbv	83
10) Heptane	8.13	43	18210m	0.125	ppbv	
11) Trichlorofluoromethane	3.95	101	66155	0.232	ppbv	99
13) Ethanol	3.64	45	17017957	1482.099	ppbv	97
15) Acetone	3.84	43	1192652m	9.238	ppbv	
19) Isopropyl Alcohol	4.01	45	4219860	53.191	ppbv #	97
20) Methylene Chloride	4.34	84	91401	1.006	ppbv	95
26) Hexane	5.68	57	114978m	0.820	ppbv	
29) Chloroform	5.75	83	46437	0.168	ppbv	96
30) Cyclohexane	7.16	84	19061m	0.125	ppbv	
34) 2-Butanone	5.25	43	92238	0.670	ppbv	97
35) Carbon Tetrachloride	7.01	117	14645m	0.065	ppbv	
36) Benzene	6.89	78	332176	1.053	ppbv	97
44) 2,2,4-Trimethylpentane	7.87	57	42315	0.101	ppbv #	38
53) Toluene	9.81	91	357485	0.939	ppbv	98
59) m/p-Xylene	12.98	91	89064m	0.219	ppbv	

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

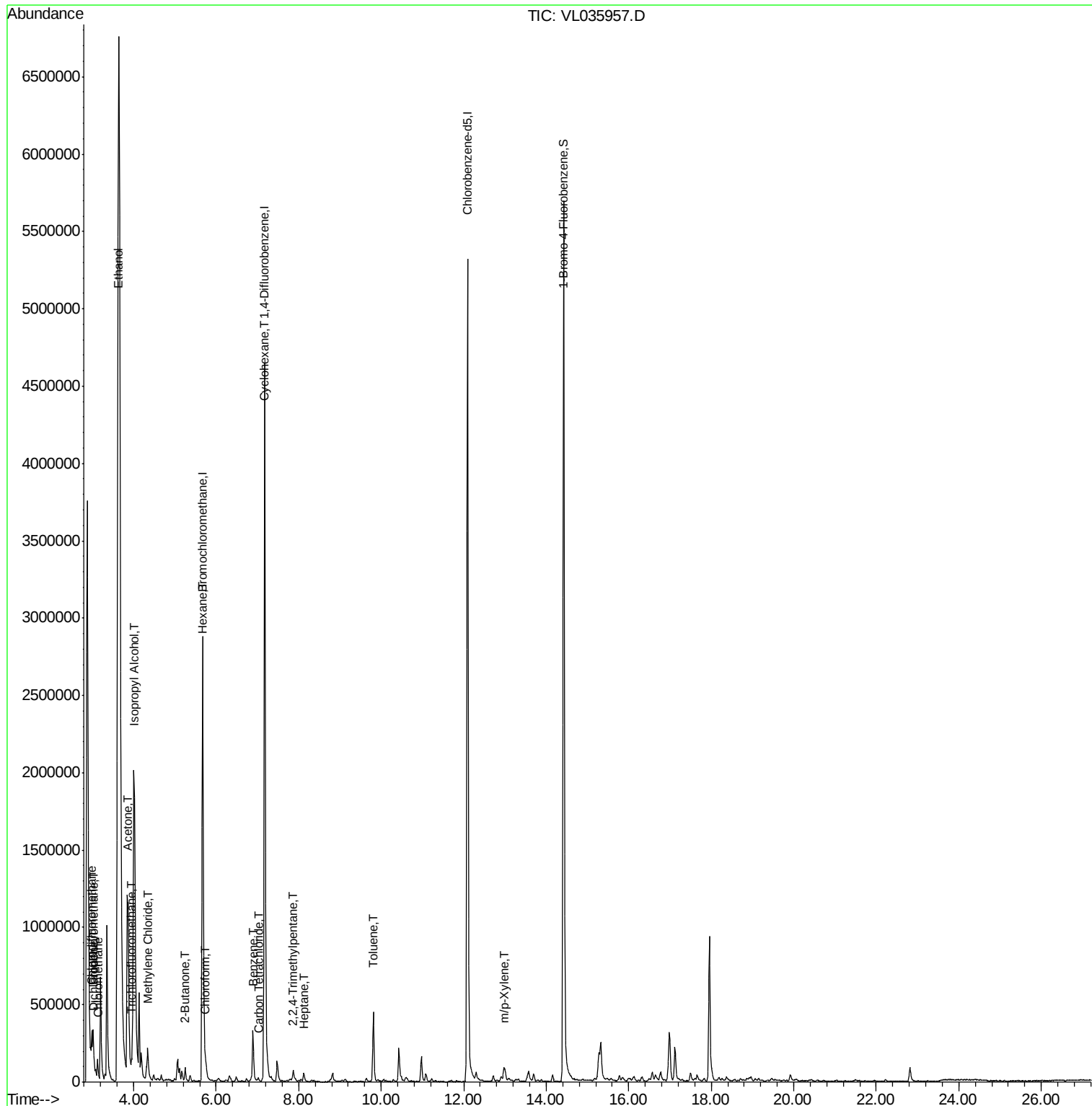
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL111620\
Data File : VL035957.D
Acq On : 16 Nov 2020 23:52
Operator : SY/AP
Sample : L4722-06
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

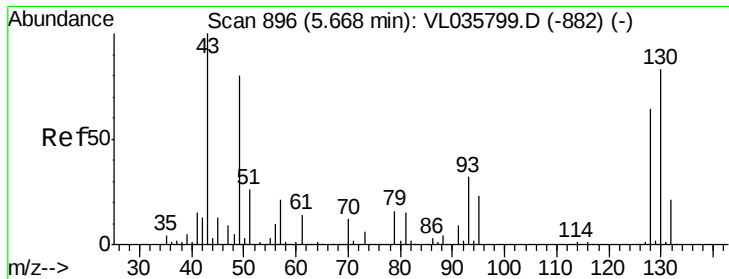
Instrument :
MSVOA_L
ClientSampleId :
SR-6

Manual Integrations APPROVED

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Quant Time: Nov 17 22:20:54 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov
QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.00 min

Lab File: VL035957.D

Acq: 16 Nov 2020 23:52

Instrument :

MSVOA_L

ClientSampleId :

SR-6

Tot Ion: 49 Resp: 1207534

Ion Ratio Lower Upper

49 100

128 76.8 41.5 124.6

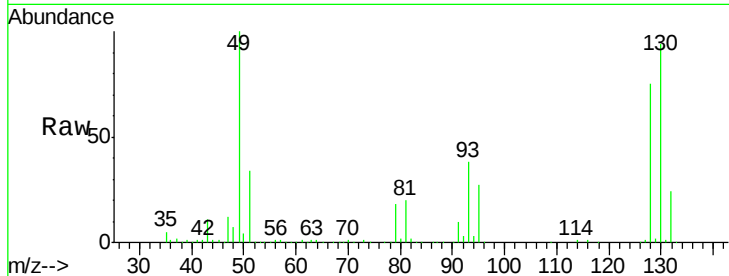
130 98.1 53.7 161.1

Manual Integrations

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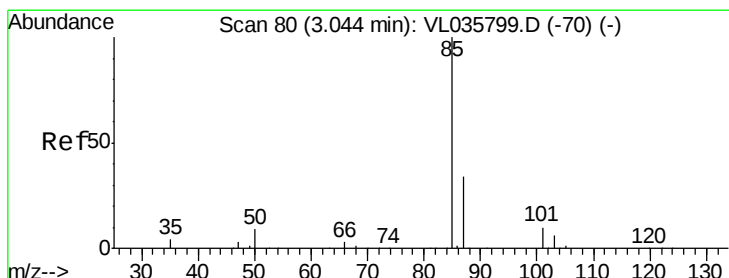
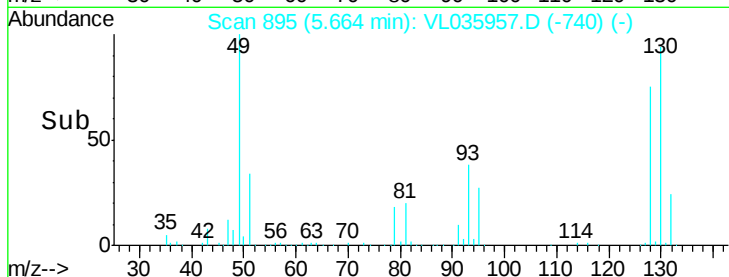
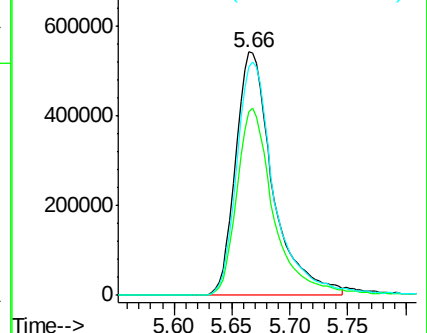
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.279 ppbv

RT: 3.04 min Scan# 80

Delta R.T. 0.00 min

Lab File: VL035957.D

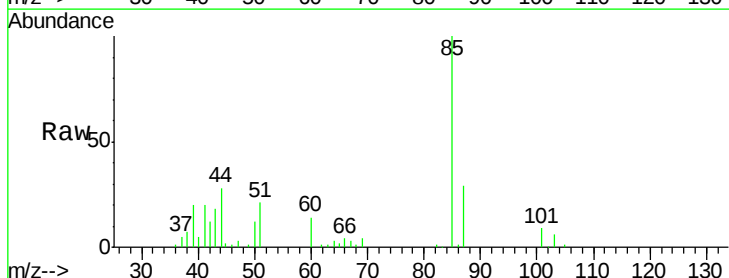
Acq: 16 Nov 2020 23:52

Tgt Ion: 85 Resp: 63434

Ion Ratio Lower Upper

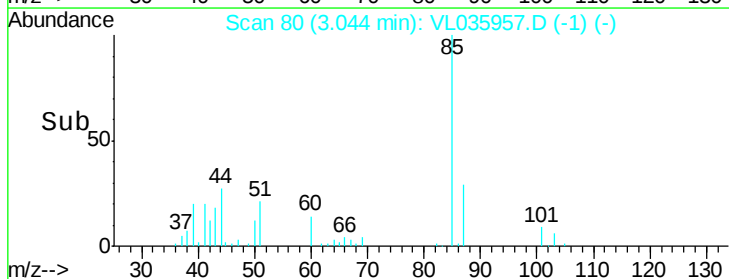
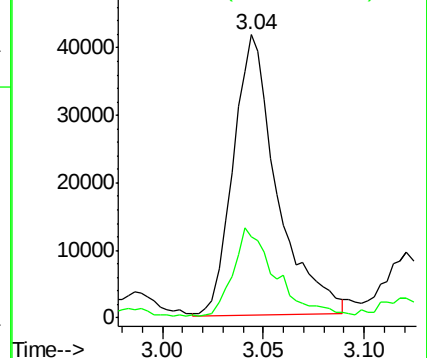
85 100

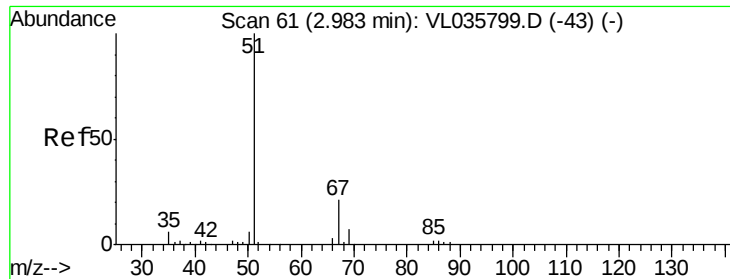
87 27.2 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 2.904 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.00 min

Lab File: VL035957.D

Acq: 16 Nov 2020 23:52

Instrument :

MSVOA_L

ClientSampled :

SR-6

Tot Ion: 51 Resp: 419864

Ion Ratio Lower Upper

51 100

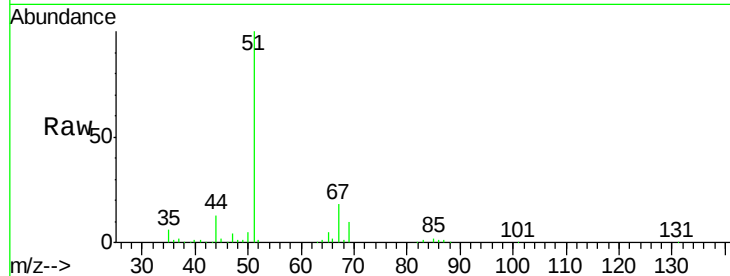
67 15.9 17.0 25.4#

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

200000

150000

100000

50000

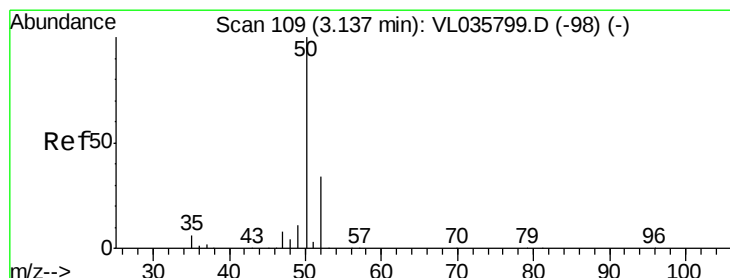
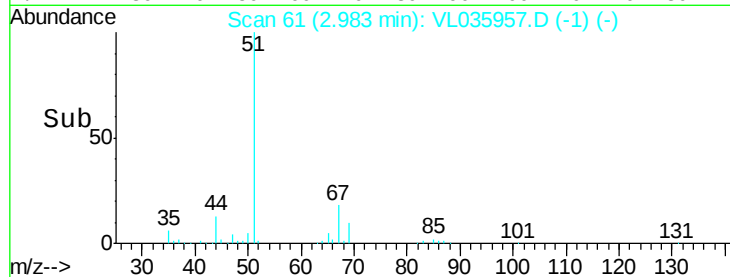
0

2.90

3.00

3.10

Time-->



#4

Chloromethane

Concen: 0.577 ppbv

RT: 3.14 min Scan# 109

Delta R.T. 0.00 min

Lab File: VL035957.D

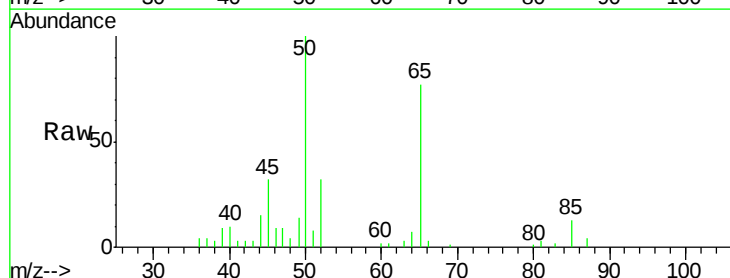
Acq: 16 Nov 2020 23:52

Tgt Ion: 50 Resp: 40554

Ion Ratio Lower Upper

50 100

52 32.7 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

25000

20000

15000

10000

5000

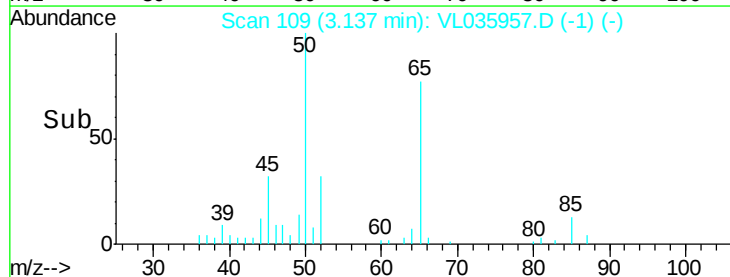
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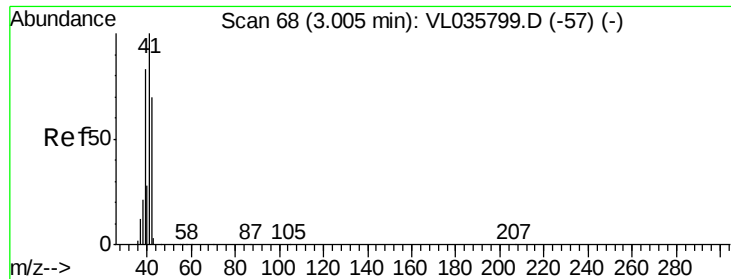
3.10

3.15

3.20

Time-->





#9

Propene

Concen: 1.588 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL035957.D

Acq: 16 Nov 2020 23:52

Instrument :

MSVOA_L

ClientSampleId :

SR-6

Tot Ion: 41 Resp: 84058

Ion Ratio Lower Upper

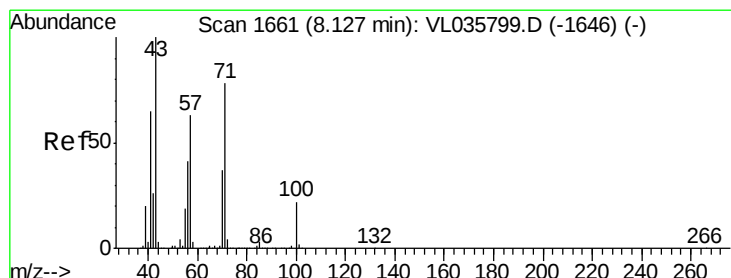
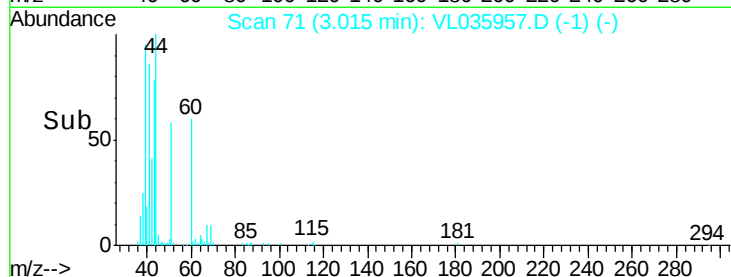
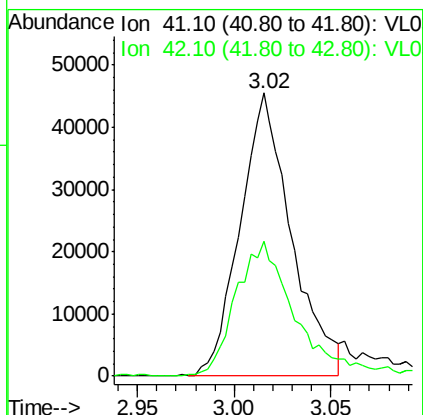
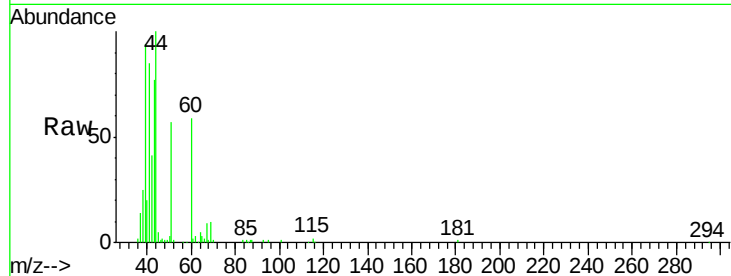
41 100

42 56.3 56.2 84.4

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#10

Heptane

Concen: 0.125 ppbv m

RT: 8.13 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VL035957.D

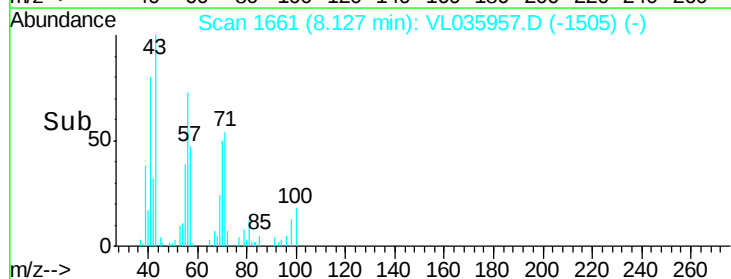
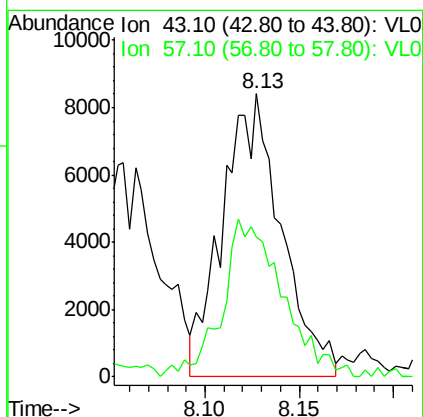
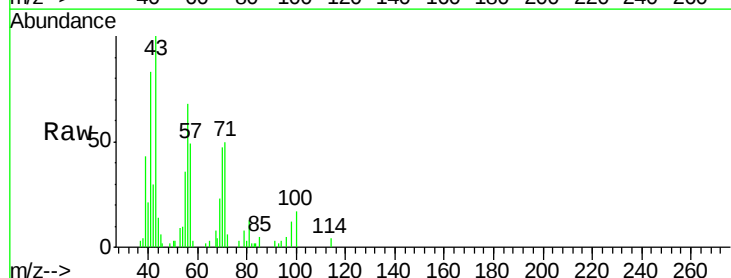
Acq: 16 Nov 2020 23:52

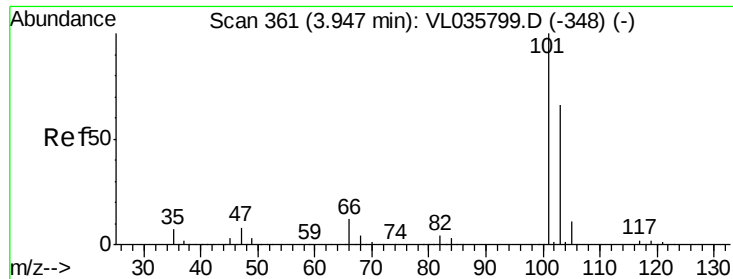
Tgt Ion: 43 Resp: 18210

Ion Ratio Lower Upper

43 100

57 57.3 50.0 75.0





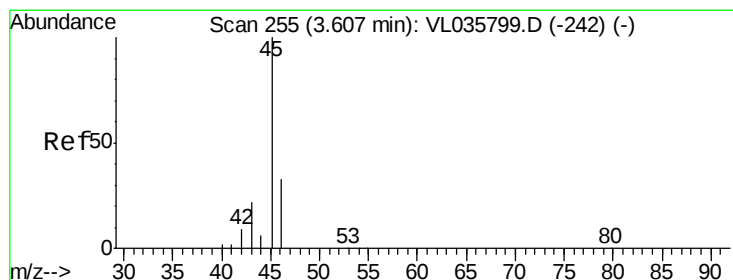
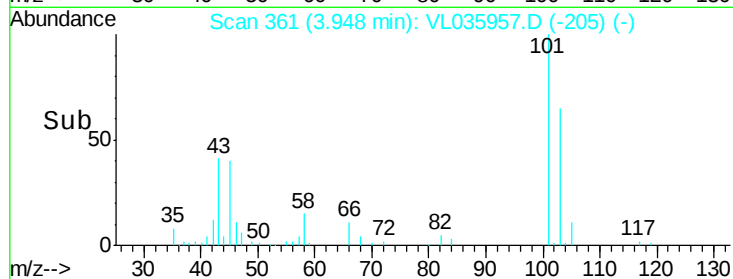
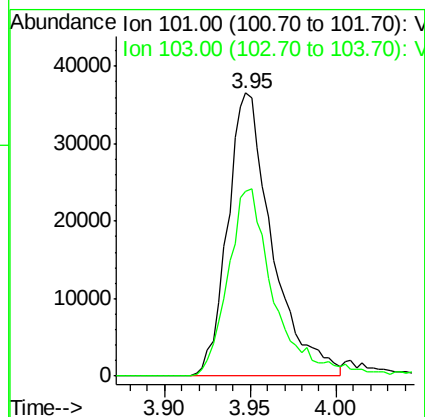
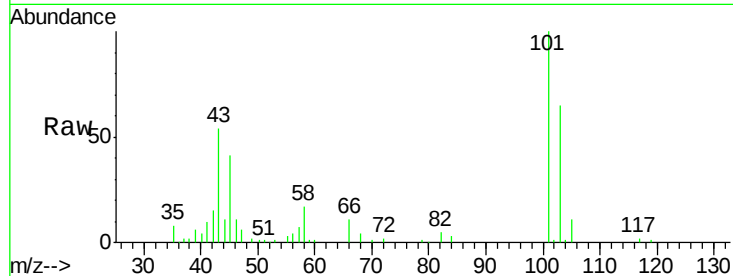
#11
Trichlorofluoromethane
Concen: 0.232 ppbv
RT: 3.95 min Scan# 361
Delta R.T. 0.00 min
Lab File: VL035957.D
Acq: 16 Nov 2020 23:52

Instrument :
MSVOA_L
ClientSampled :
SR-6

Tot Ion:101 Resp: 66155
Ion Ratio Lower Upper
101 100
103 65.2 53.0 79.4

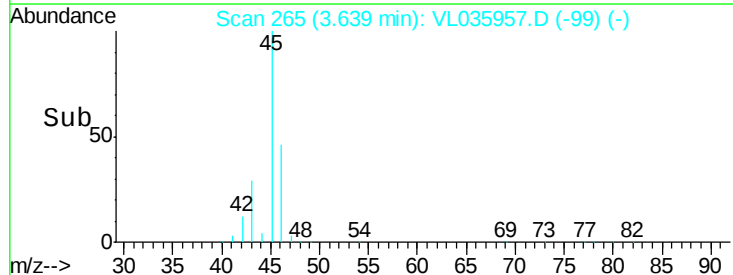
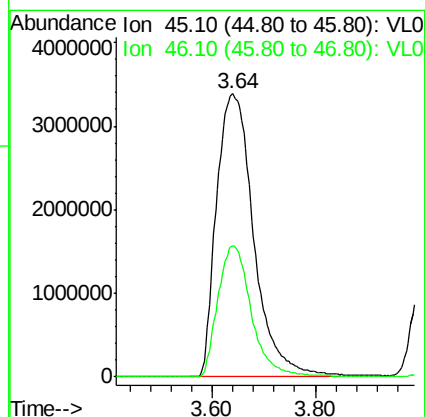
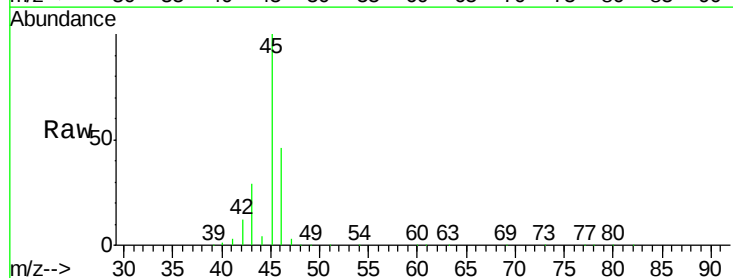
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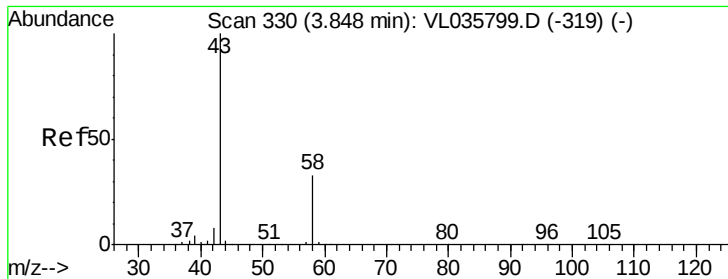
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#13
Ethanol
Concen: 1482.099 ppbv
RT: 3.64 min Scan# 265
Delta R.T. 0.03 min
Lab File: VL035957.D
Acq: 16 Nov 2020 23:52

Tgt Ion: 45 Resp:17017957
Ion Ratio Lower Upper
45 100
46 42.1 16.1 64.5





#15

Acetone

Concen: 9.238 ppbv m

RT: 3.84 min Scan# 329

Delta R.T. -0.00 min

Lab File: VL035957.D

Acq: 16 Nov 2020 23:52

Instrument :

MSVOA_L

ClientSampleId :

SR-6

Tot Ion: 43 Resp: 1192652

Ion Ratio Lower Upper

43 100

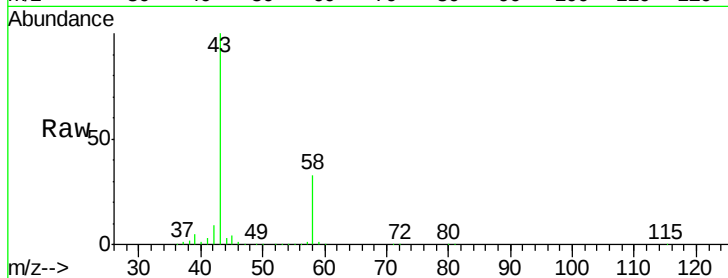
58 44.1 27.5 41.3#

Manual Integrations

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.84

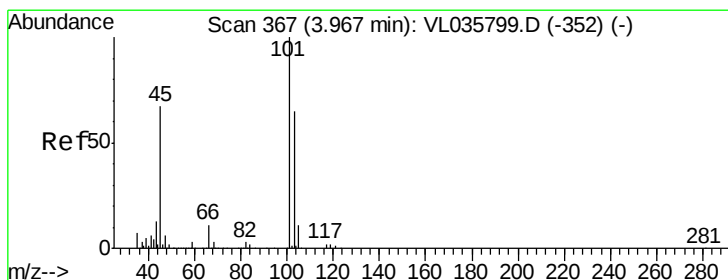
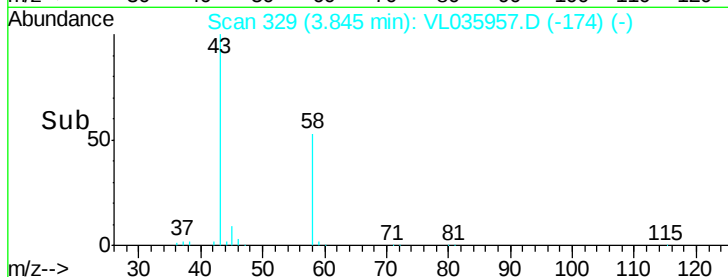
600000

400000

200000

0

Time-->



#19

Isopropyl Alcohol

Concen: 53.191 ppbv

RT: 4.01 min Scan# 380

Delta R.T. 0.04 min

Lab File: VL035957.D

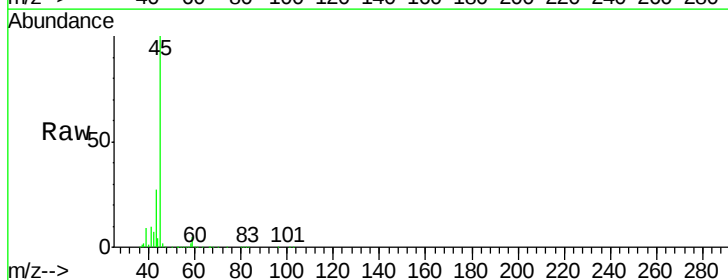
Acq: 16 Nov 2020 23:52

Tgt Ion: 45 Resp: 4219860

Ion Ratio Lower Upper

45 100

58 2.1 2.6 3.8#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

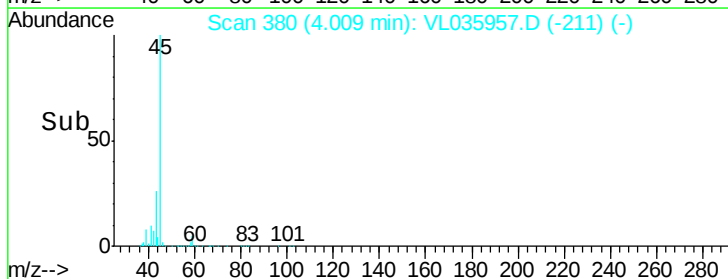
4.01

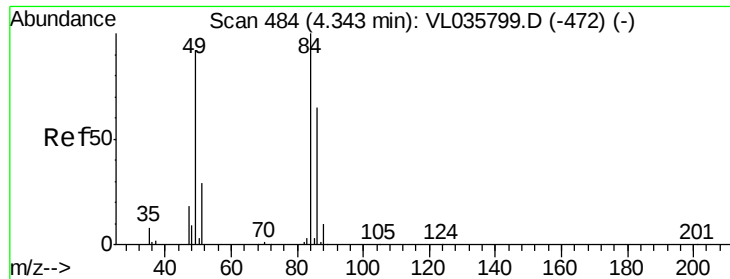
1000000

500000

0

Time-->





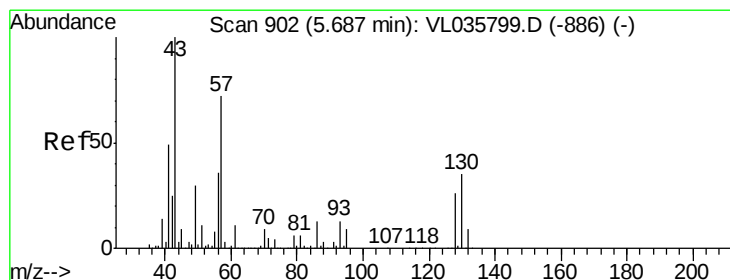
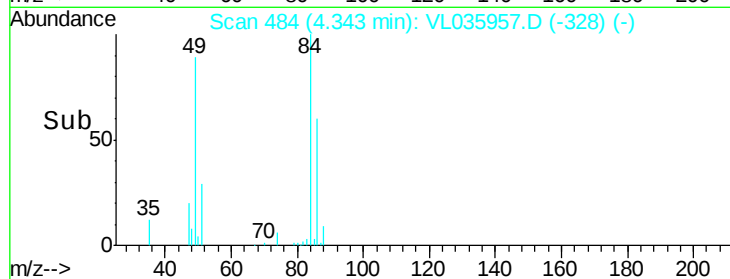
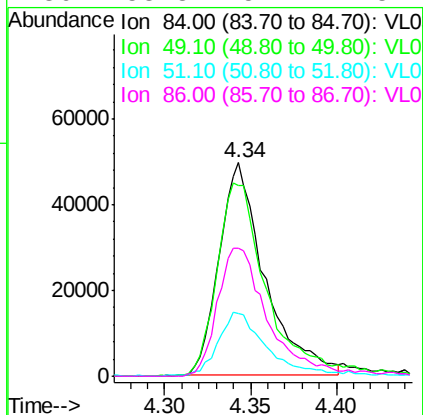
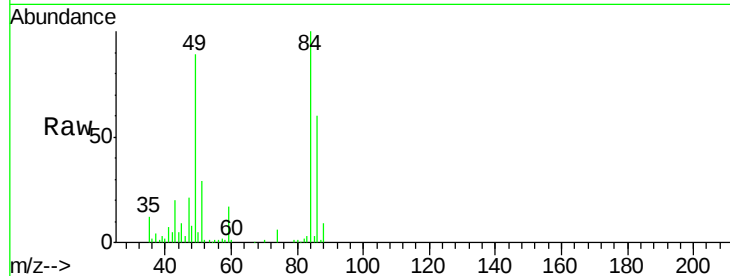
#20
Methvlene Chloride
Concen: 1.006 ppbv
RT: 4.34 min Scan# 484
Delta R.T. 0.00 min
Lab File: VL035957.D
Acq: 16 Nov 2020 23:52

Instrument :
MSVOA_L
ClientSampleId :
SR-6

Tot Ion	Ion	Ratio	Lower	Upper
84	100			
49	88.5	73.8	110.8	
51	28.8	23.0	34.4	
86	58.8	52.1	78.1	

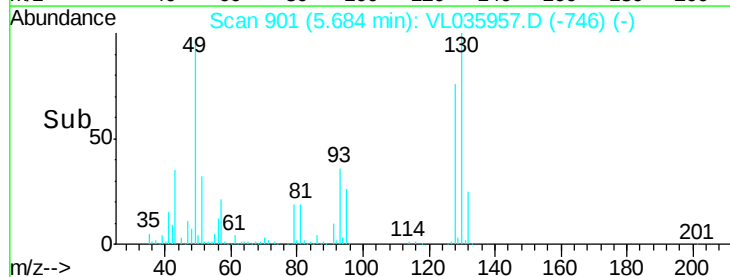
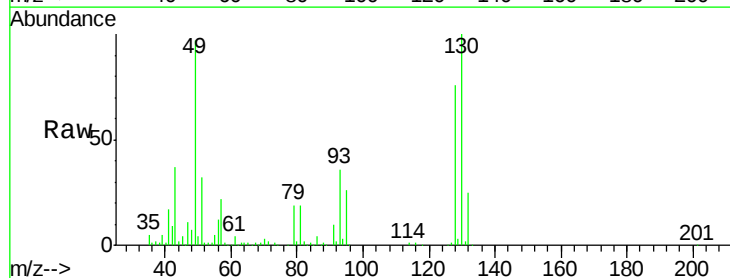
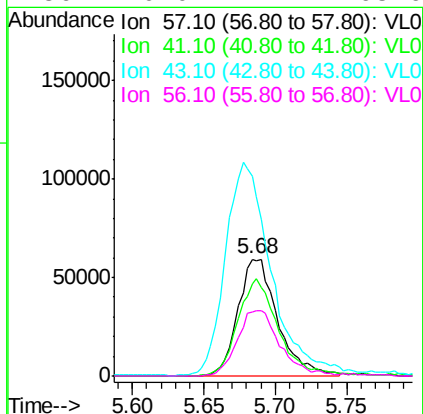
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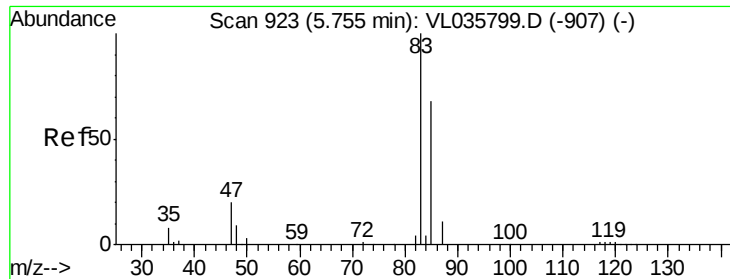
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#26
Hexane
Concen: 0.820 ppbv m
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL035957.D
Acq: 16 Nov 2020 23:52

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	0.0	58.9	88.3#	
43	0.0	150.2	225.2#	
56	0.0	42.4	63.6#	





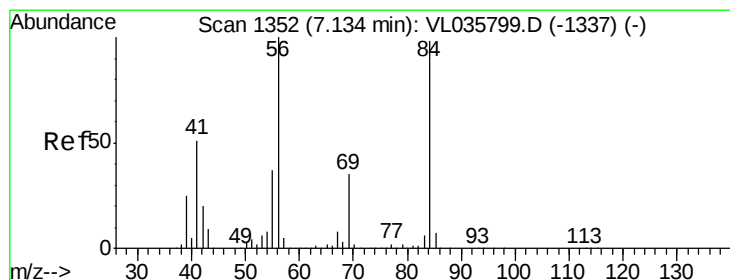
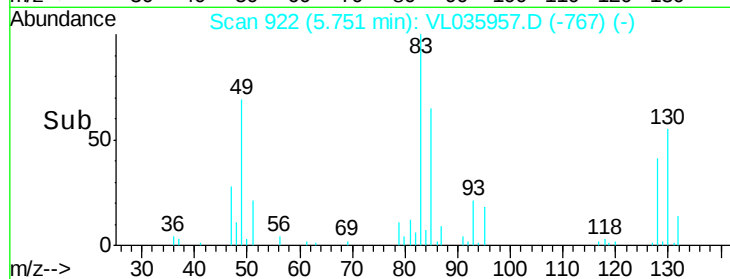
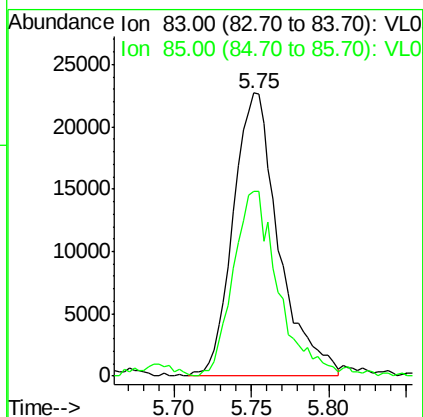
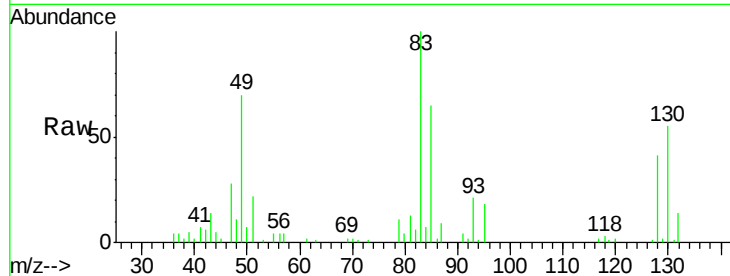
#29
Chloroform
Concen: 0.168 ppbv
RT: 5.75 min Scan# 922
Delta R.T. -0.00 min
Lab File: VL035957.D
Acq: 16 Nov 2020 23:52

Instrument :
MSVOA_L
ClientSampled :
SR-6

Tot Ion: 83 Resp: 46437
Ion Ratio Lower Upper
83 100
85 64.7 54.6 81.8

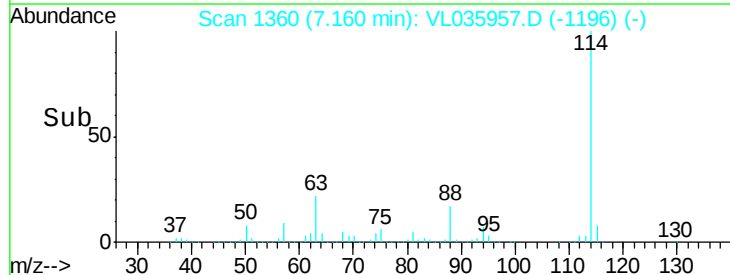
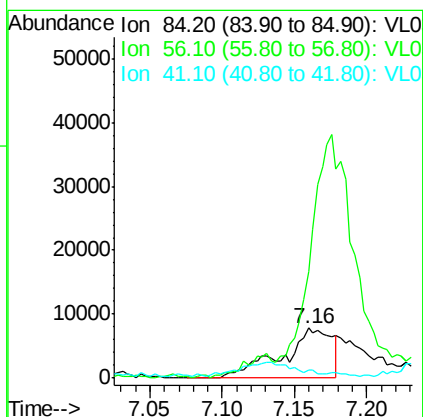
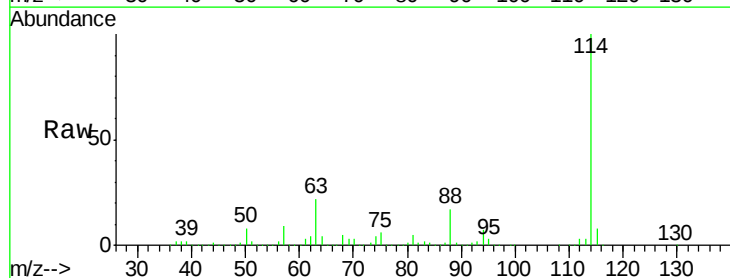
Manual Integrations
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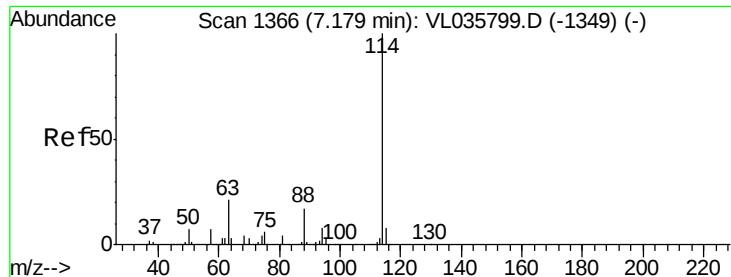
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#30
Cyclohexane
Concen: 0.125 ppbv m
RT: 7.16 min Scan# 1360
Delta R.T. 0.03 min
Lab File: VL035957.D
Acq: 16 Nov 2020 23:52

Tgt Ion: 84 Resp: 19061
Ion Ratio Lower Upper
84 100
56 0.0 86.4 129.6#
41 33.1 42.1 63.1#





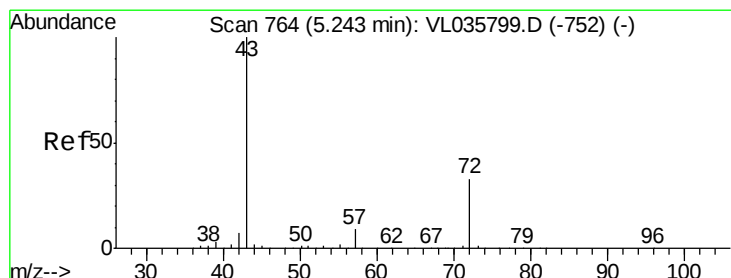
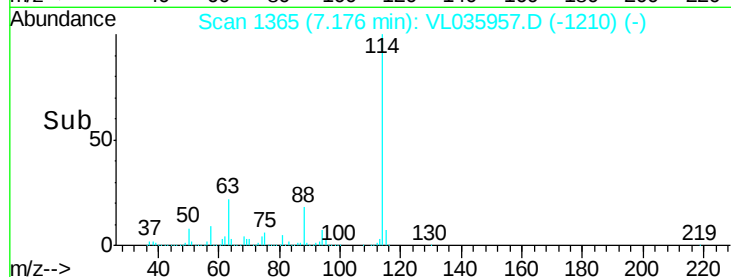
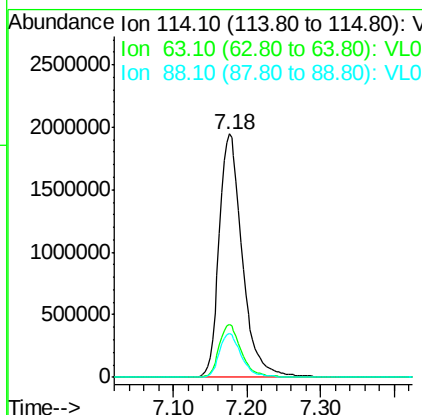
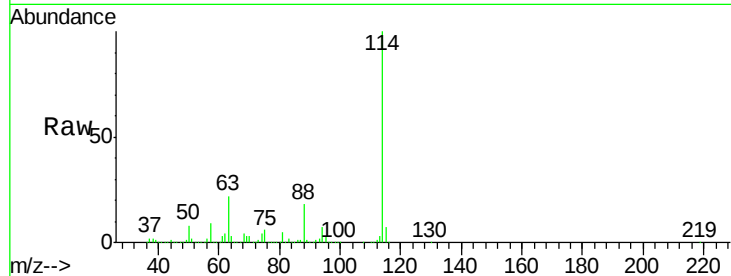
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.00 min
 Lab File: VL035957.D
 Acq: 16 Nov 2020 23:52

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-6

Tot Ion:114 Resp: 4243675
 Ion Ratio Lower Upper
 114 100
 63 21.0 16.1 24.1
 88 17.4 13.7 20.5

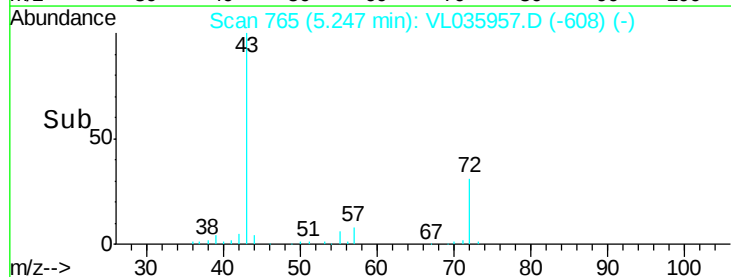
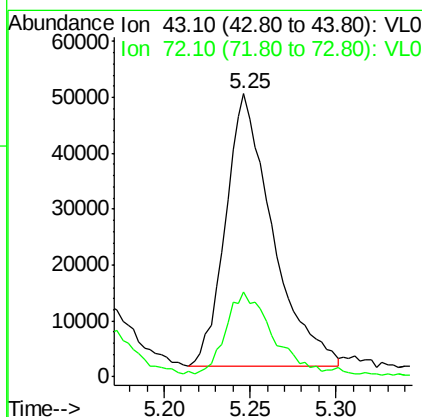
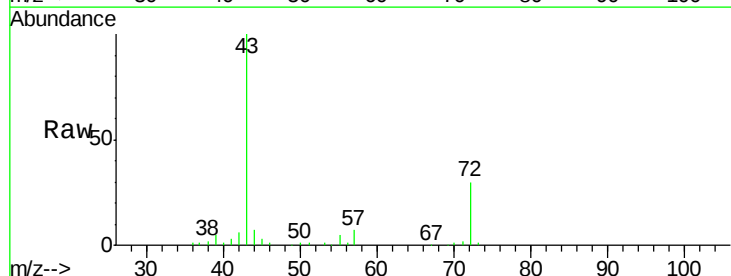
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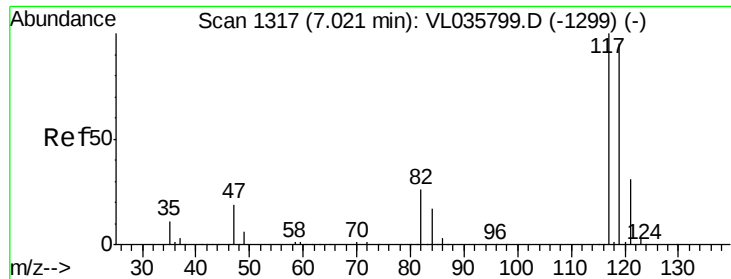
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#34
 2-Butanone
 Concen: 0.670 ppbv
 RT: 5.25 min Scan# 765
 Delta R.T. 0.00 min
 Lab File: VL035957.D
 Acq: 16 Nov 2020 23:52

Tgt Ion: 43 Resp: 92238
 Ion Ratio Lower Upper
 43 100
 72 34.7 26.5 39.7





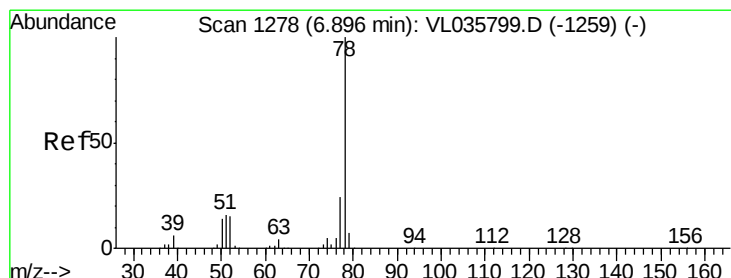
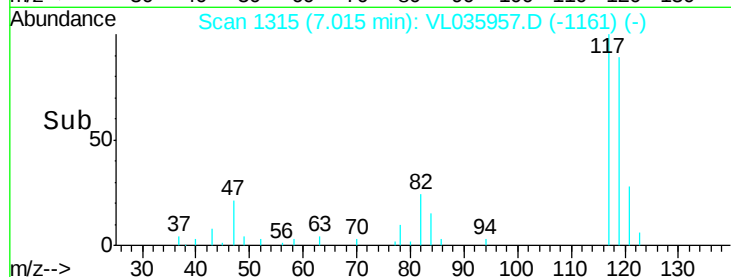
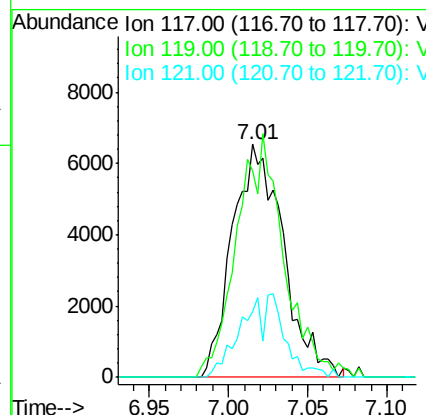
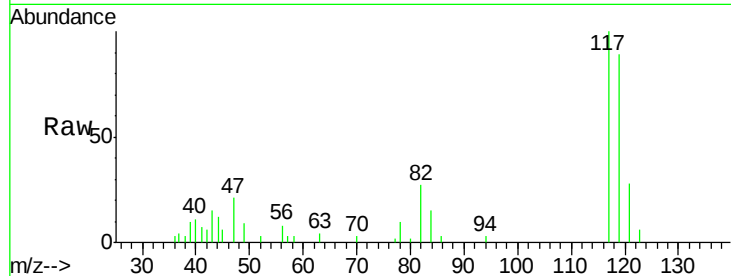
#35
Carbon Tetrachloride
Concen: 0.065 ppbv m
RT: 7.01 min Scan# 1315
Delta R.T. -0.01 min
Lab File: VL035957.D
Acq: 16 Nov 2020 23:52

Instrument :
MSVOA_L
ClientSampled :
SR-6

Tot Ion	Ratio	Lower	Upper
117	100		
119	88.8	75.6	113.4
121	28.1	25.1	37.7

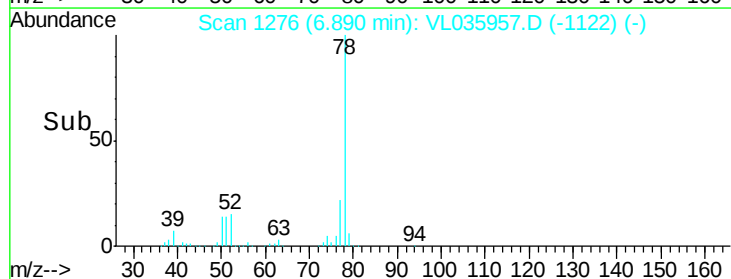
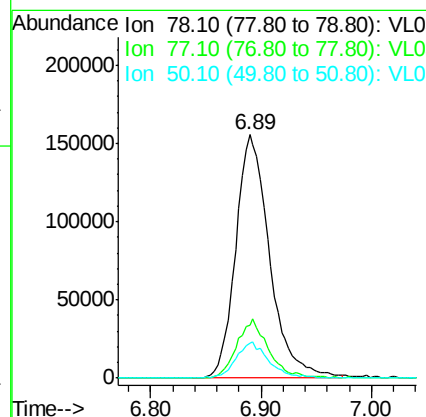
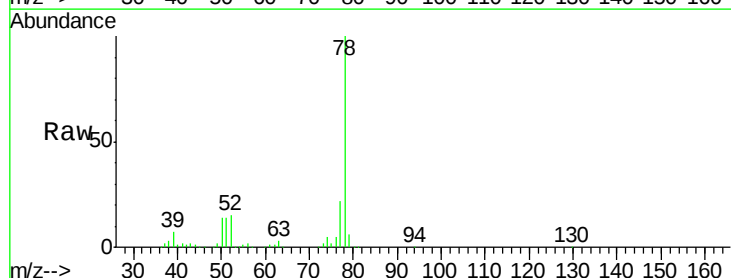
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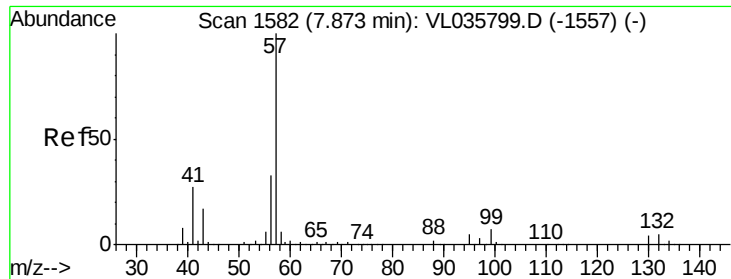
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#36
Benzene
Concen: 1.053 ppbv
RT: 6.89 min Scan# 1276
Delta R.T. -0.01 min
Lab File: VL035957.D
Acq: 16 Nov 2020 23:52

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.6	19.3	28.9
50	14.1	11.4	17.2





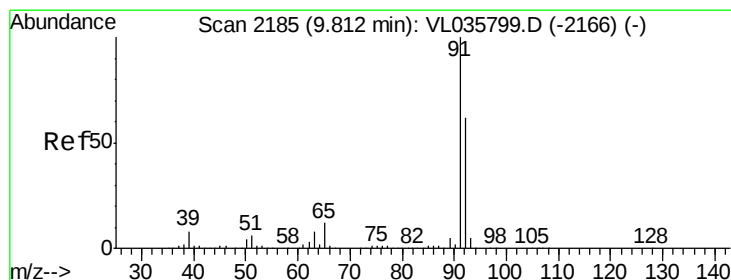
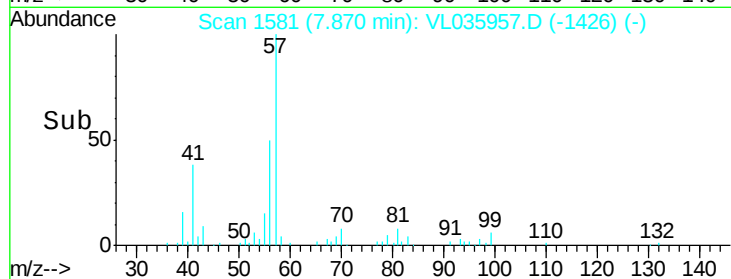
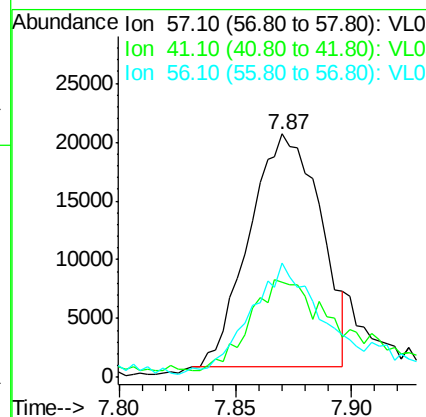
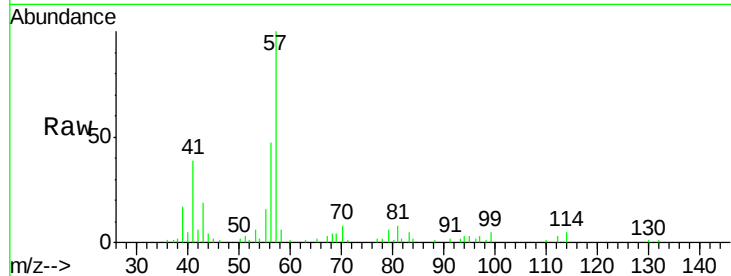
#44
 2,2,4-Trimethylpentane
 Concen: 0.101 ppbv
 RT: 7.87 min Scan# 1581
 Delta R.T. -0.00 min
 Lab File: VL035957.D
 Acq: 16 Nov 2020 23:52

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-6

Tot Ion	Ratio	Lower	Upper
57	100		
41	64.7	21.0	31.4#
56	60.0	25.4	38.0#

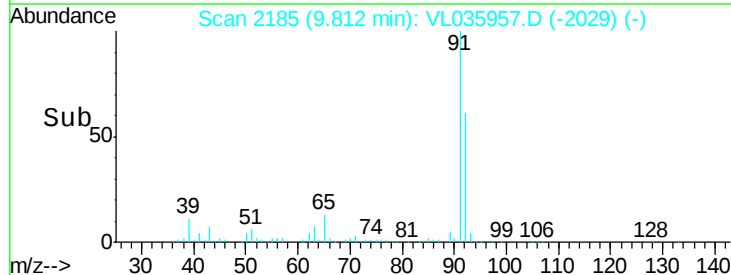
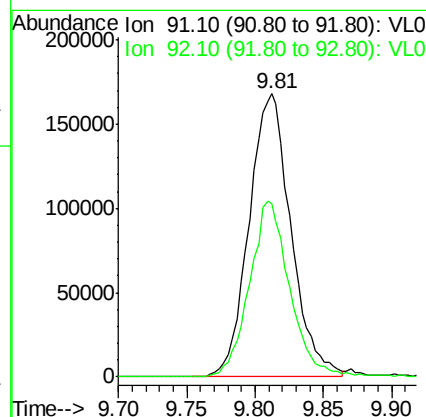
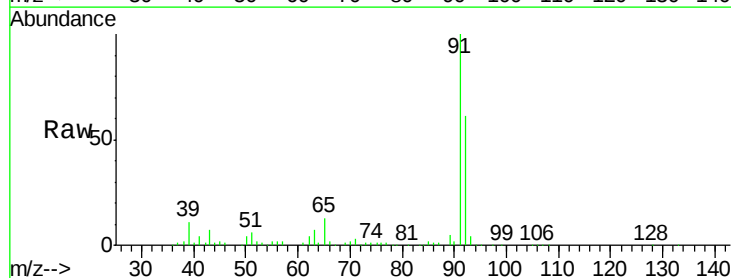
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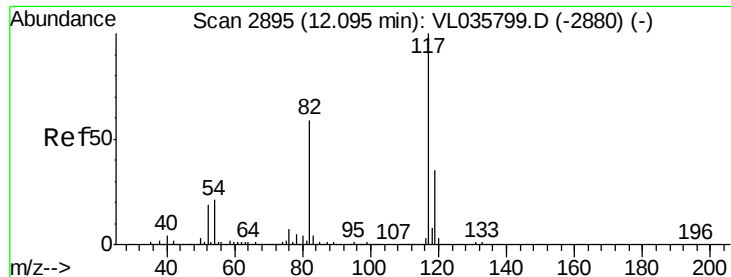
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#53
 Toluene
 Concen: 0.939 ppbv
 RT: 9.81 min Scan# 2185
 Delta R.T. 0.00 min
 Lab File: VL035957.D
 Acq: 16 Nov 2020 23:52

Tgt Ion	Ratio	Lower	Upper
91	100		
92	60.4	49.8	74.6





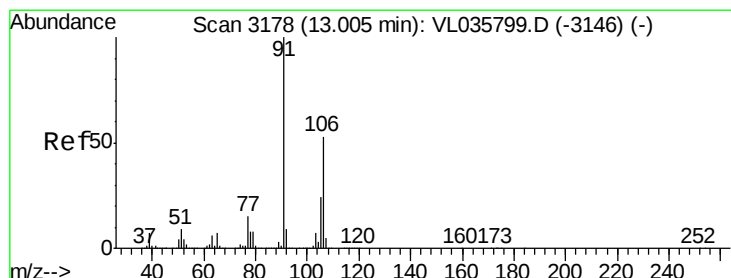
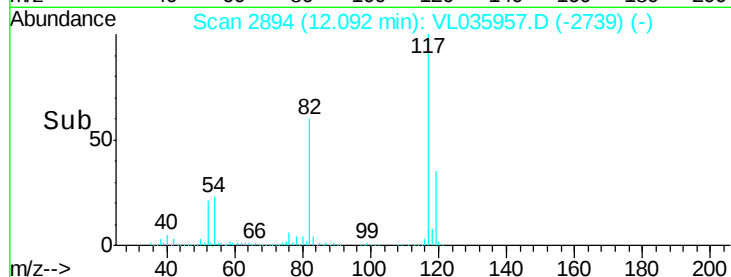
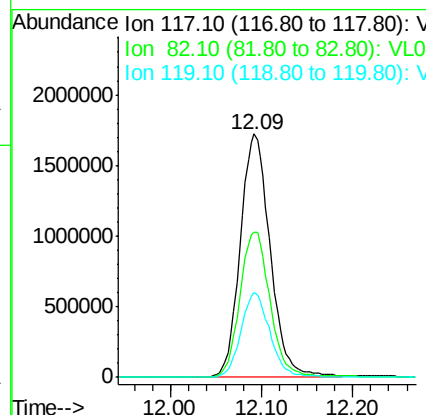
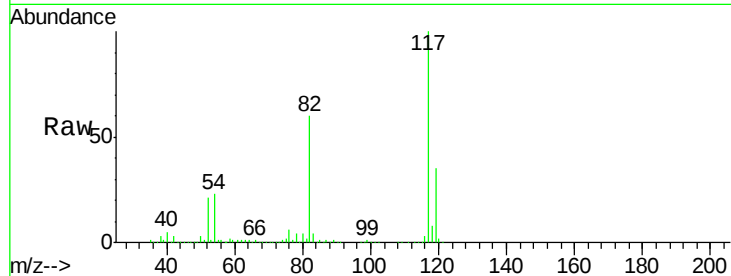
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2894
Delta R.T. -0.00 min
Lab File: VL035957.D
Acq: 16 Nov 2020 23:52

Instrument :
MSVOA_L
ClientSampleId :
SR-6

Tot Ion	Ratio	Lower	Upper
117	100		
82	61.2	50.6	76.0
119	33.9	52.6	78.8

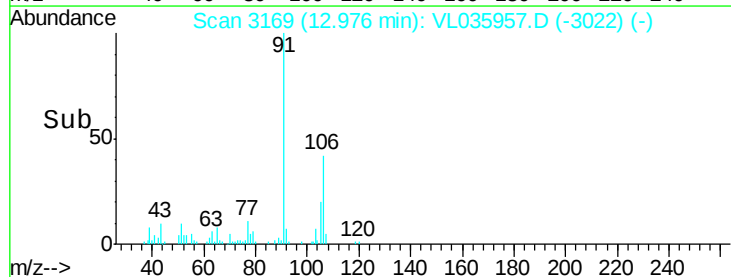
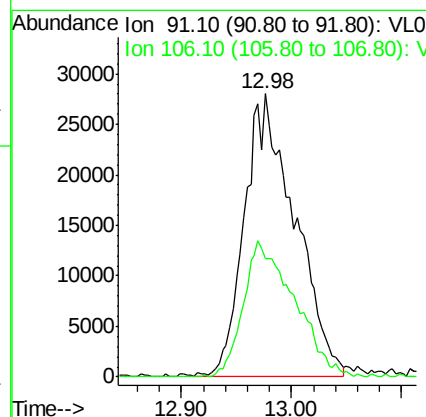
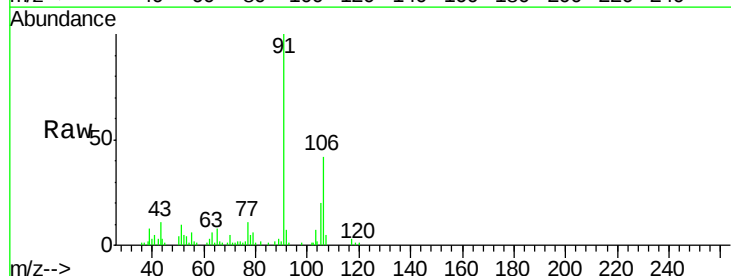
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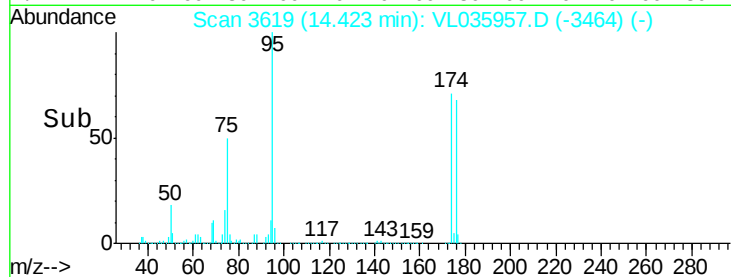
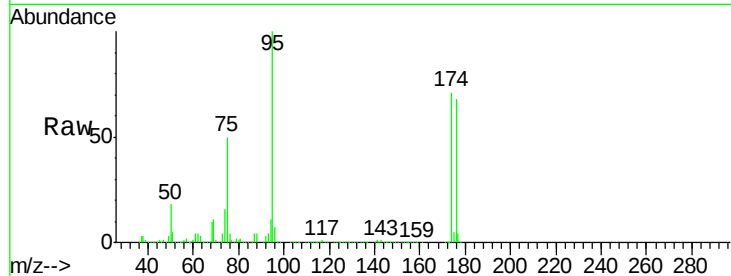
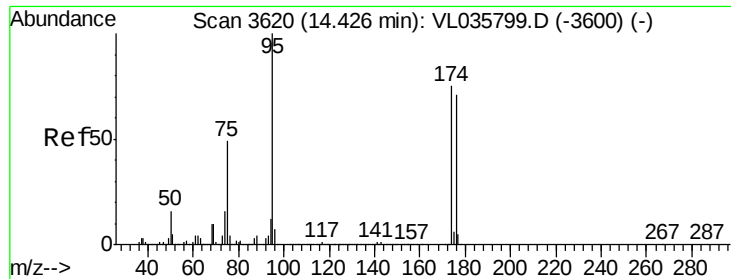
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#59
m/p-Xylene
Concen: 0.219 ppbv m
RT: 12.98 min Scan# 3169
Delta R.T. -0.03 min
Lab File: VL035957.D
Acq: 16 Nov 2020 23:52

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	39.5	59.3





#68

1-Bromo-4-Fluorobenzene

Concen: 10.632 ppbv

RT: 14.42 min Scan# 3619

Delta R.T. -0.00 min

Lab File: VL035957.D

Acq: 16 Nov 2020 23:52

Instrument :

MSVOA_L

ClientSampleId :

SR-6

Tot Ion: 95 Resp: 2977554

Ion Ratio Lower Upper

95 100

174 71.6 59.8 89.6

175 5.1 4.3 6.5

Manual Integrations
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