

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062921\
 Data File : VL037251.D
 Acq On : 29 Jun 2021 16:22
 Operator : SY/AP
 Sample : M2887-01 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1

Manual Integrations
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 7/5/2021 3:38:19 PM

Quant Time: Jun 30 06:07:20 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 1
 QLast Update : Wed Jun 16 14:06:32 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1735593	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.17	114	5018844	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.08	117	4450678	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.40	95	3342695	9.91	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.01	41	630357	5.842	ppbv	95
10) Heptane	8.11	43	103615m	0.396	ppbv	
13) Ethanol	3.61	45	223481m	13.388	ppbv	
15) Acetone	3.84	43	4658849	23.804	ppbv	97
17) tert-Butyl alcohol	4.31	59	120923m	0.668	ppbv	
19) Isopropyl Alcohol	3.98	45	64581m	0.545	ppbv	
20) Methylene Chloride	4.34	84	1250929	10.676	ppbv	97
26) Hexane	5.68	57	953250	4.451	ppbv #	46
30) Cyclohexane	7.12	84	20925	0.117	ppbv #	11
34) 2-Butanone	5.25	43	220877	1.132	ppbv #	90
36) Benzene	6.88	78	104548	0.258	ppbv #	92
50) 4-Methyl-2-Pentanone	8.75	43	44349m	0.165	ppbv	
51) 2-Hexanone	10.14	43	40963m	0.314	ppbv	
53) Toluene	9.80	91	152941	0.315	ppbv	99
57) Chlorobenzene	12.14	112	37865m	0.105	ppbv	
59) m/p-Xylene	12.96	91	99402m	0.191	ppbv	
67) sec-Butylbenzene	17.29	105	124386m	0.150	ppbv	
69) p-Isopropyltoluene	17.64	119	235317	0.335	ppbv #	93
72) 4-Ethyltoluene	15.82	105	63887m	0.114	ppbv	
73) 1,3,5-Trimethylbenzene	15.98	105	63633m	0.117	ppbv	
74) 1,2,4-Trimethylbenzene	16.75	105	191543	0.342	ppbv #	73
79) Naphthalene	22.19	128	70407m	0.151	ppbv	

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

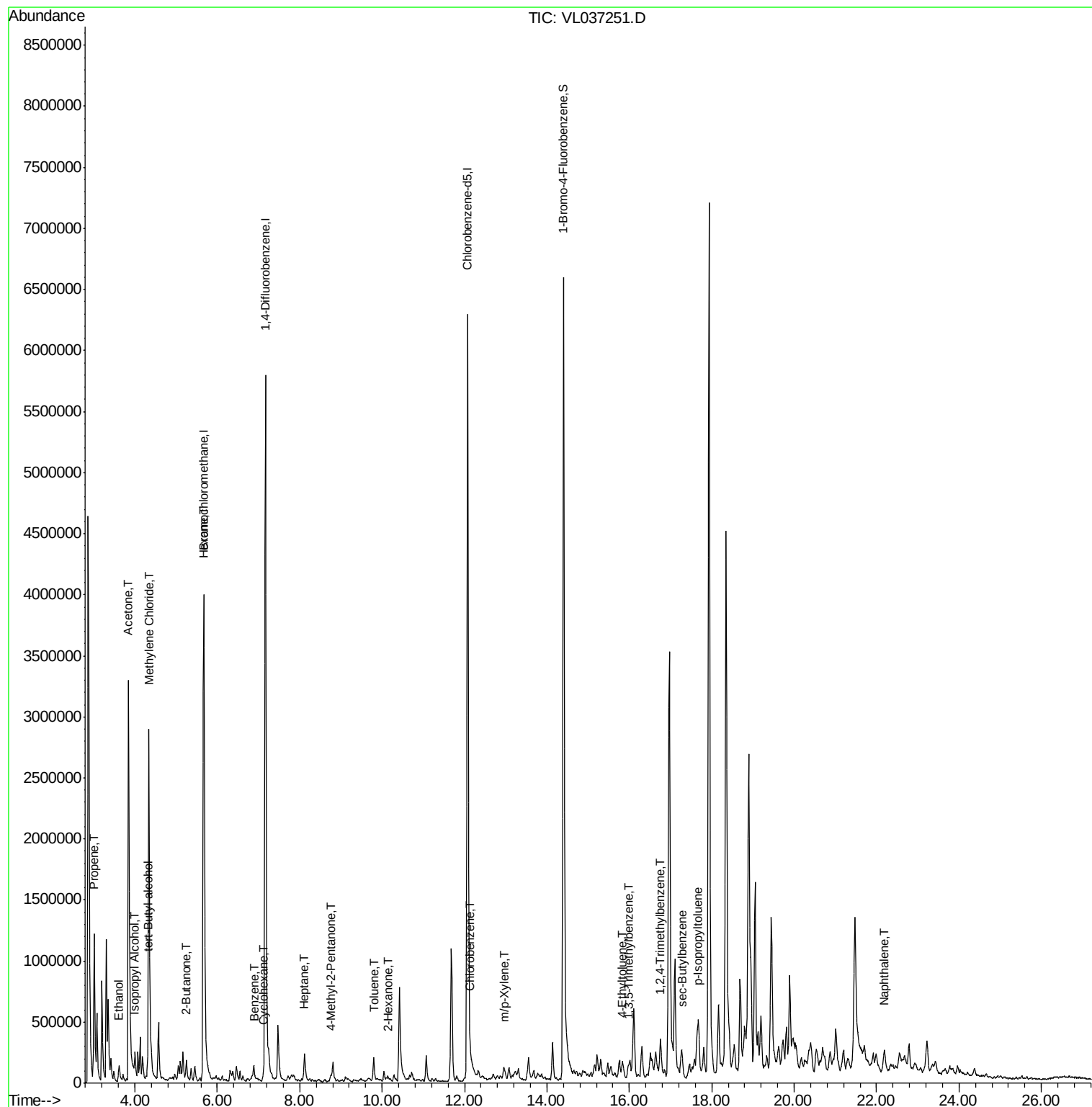
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL062921\
Data File : VL037251.D
Acq On : 29 Jun 2021 16:22
Operator : SY/AP
Sample : M2887-01 4X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

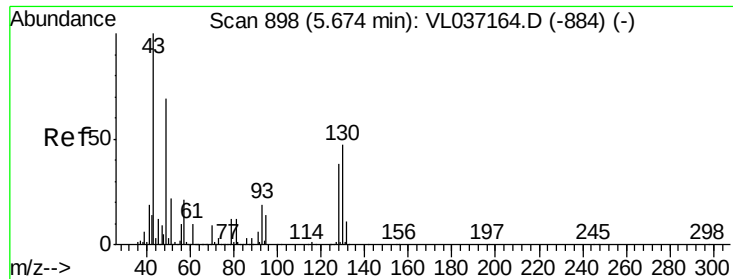
Instrument :
MSVOA_L
ClientSampled :
SV-1

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Quant Time: Jun 30 06:07:20 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun
QLast Update : Wed Jun 16 14:06:32 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.01 min

Lab File: VL037251.D

Acq: 29 Jun 2021 16:22

Instrument :

MSVOA_L

ClientSampled :

SV-1

Tot Ion: 49 Resp: 173593

Ion Ratio Lower Upper

49 100

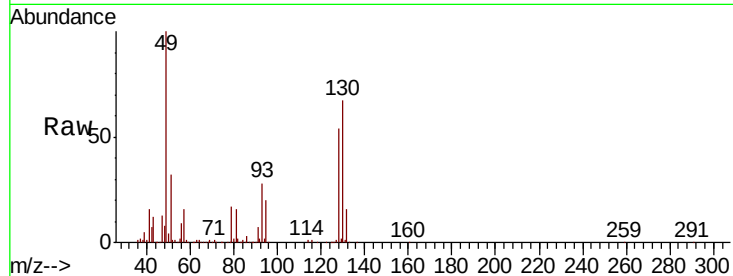
128 55.6 29.3 88.0

130 71.2 35.9 107.8

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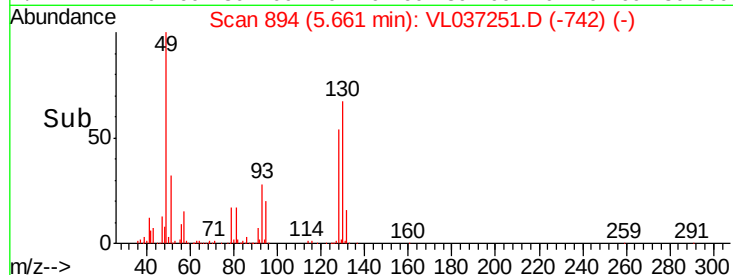


Abundance Ion 49.10 (48.80 to 49.80): VL0

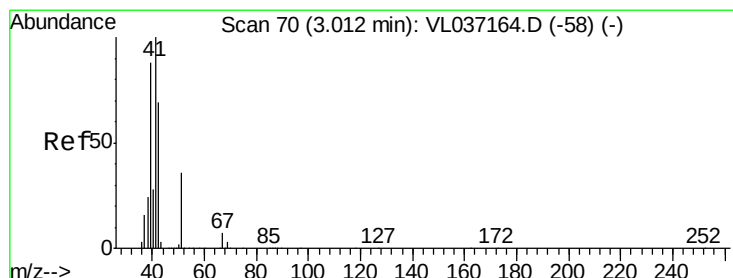
Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

Time-->



Time-->



#9

Propene

Concen: 5.842 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.01 min

Lab File: VL037251.D

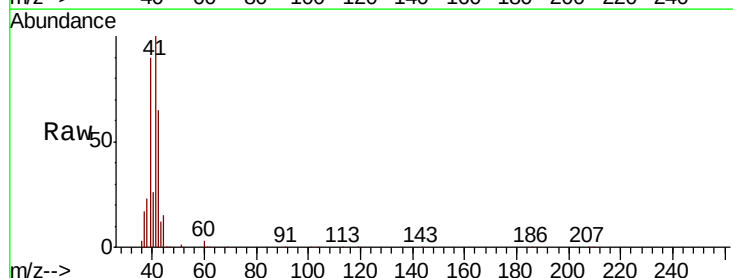
Acq: 29 Jun 2021 16:22

Tgt Ion: 41 Resp: 630357

Ion Ratio Lower Upper

41 100

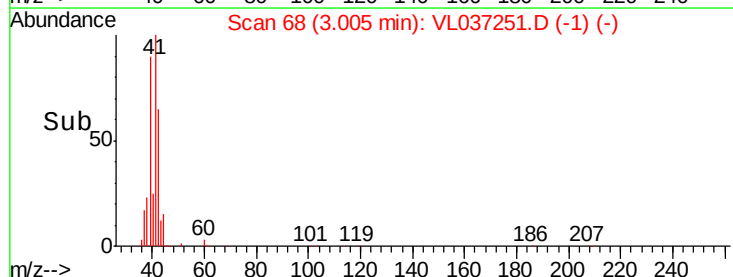
42 63.7 54.5 81.7



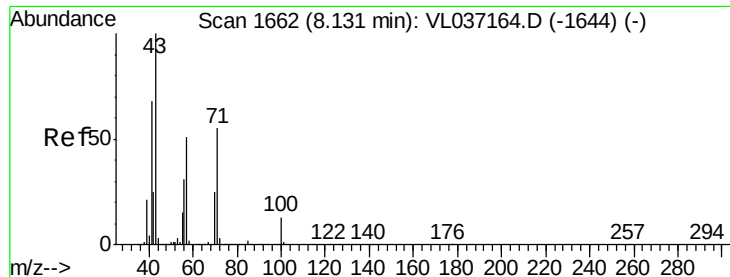
Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Time-->



Time-->



#10

Heptane

Concen: 0.396 ppbv m

RT: 8.11 min Scan# 1657

Delta R.T. -0.02 min

Lab File: VL037251.D

Acq: 29 Jun 2021 16:22

Instrument :

MSVOA_L

ClientSampled :

SV-1

Tot Ion: 43 Resp: 103615

Ion Ratio Lower Upper

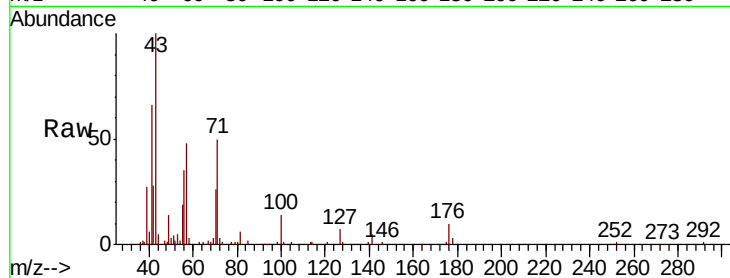
43 100

57 49.9 40.6 61.0

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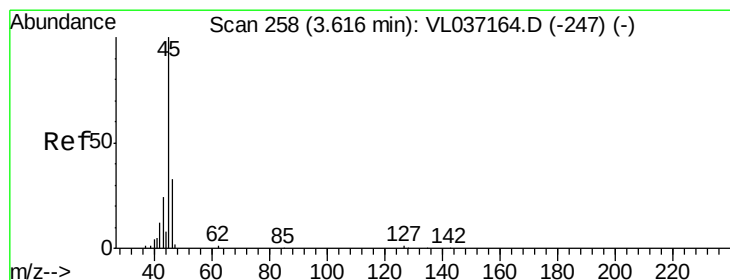
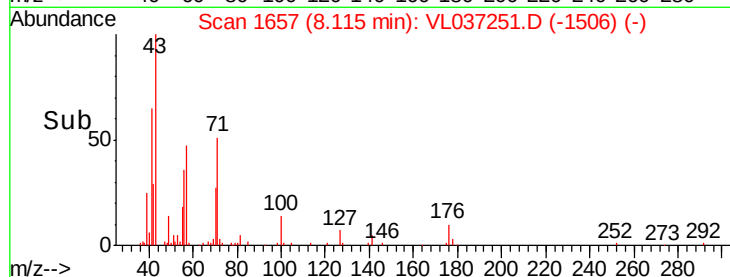
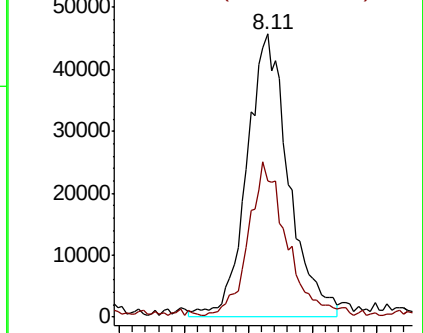
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#13

Ethanol

Concen: 13.388 ppbv m

RT: 3.61 min Scan# 256

Delta R.T. -0.01 min

Lab File: VL037251.D

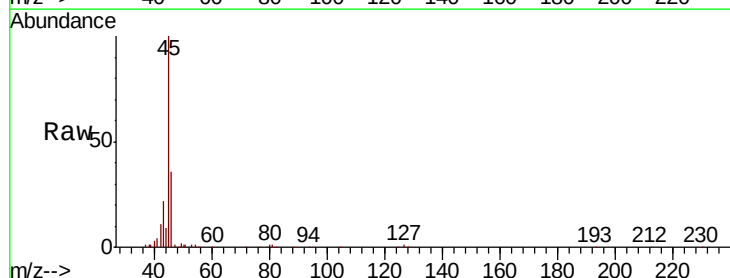
Acq: 29 Jun 2021 16:22

Tgt Ion: 45 Resp: 223481

Ion Ratio Lower Upper

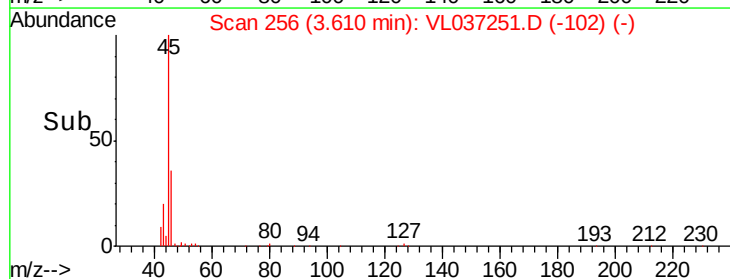
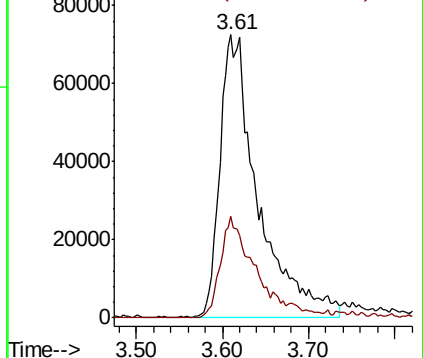
45 100

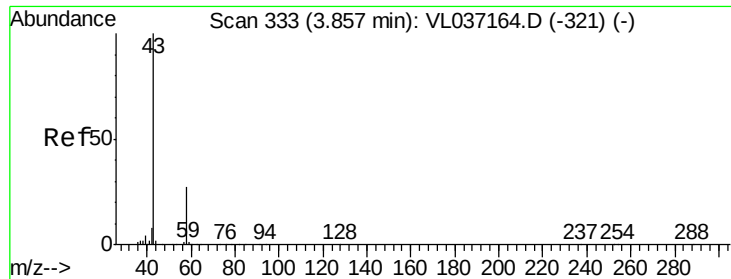
46 33.7 34.2 137.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





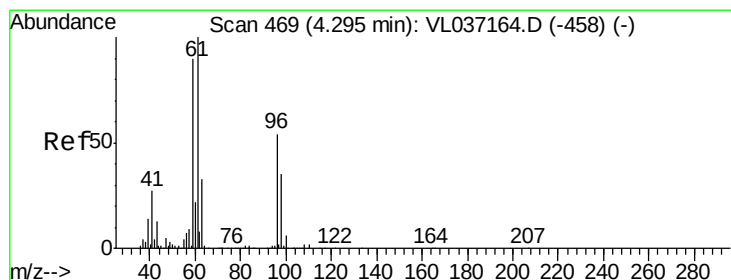
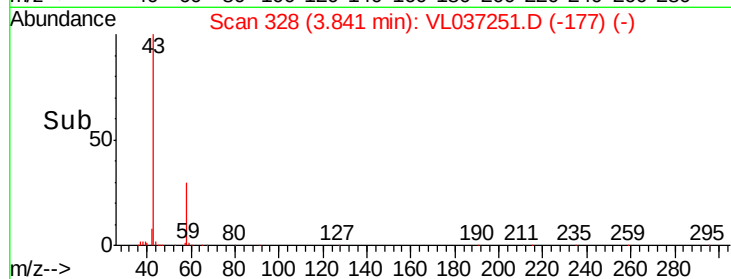
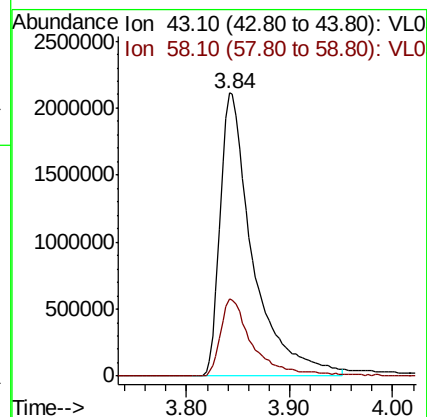
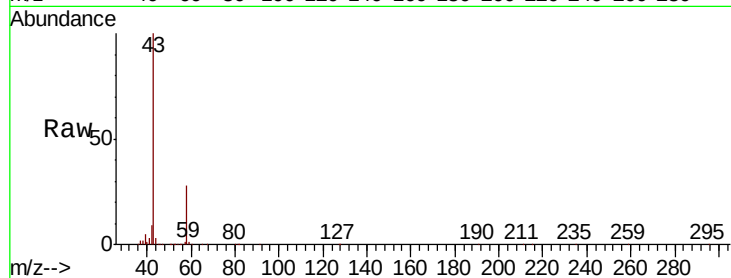
#15
Acetone
Concen: 23.804 ppbv
RT: 3.84 min Scan# 328
Delta R.T. -0.02 min
Lab File: VL037251.D
Acq: 29 Jun 2021 16:22

Instrument :
MSVOA_L
ClientSampleId :
SV-1

Tot Ion: 43 Resp: 4658849
Ion Ratio Lower Upper
43 100
58 27.9 23.7 35.5

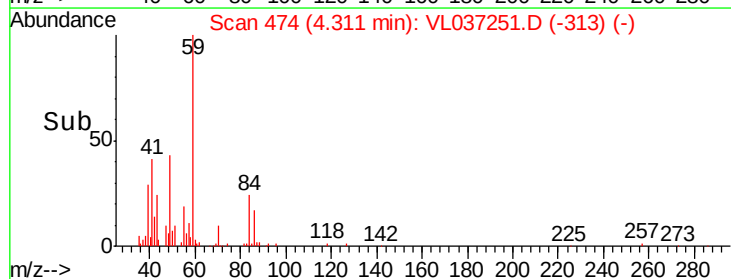
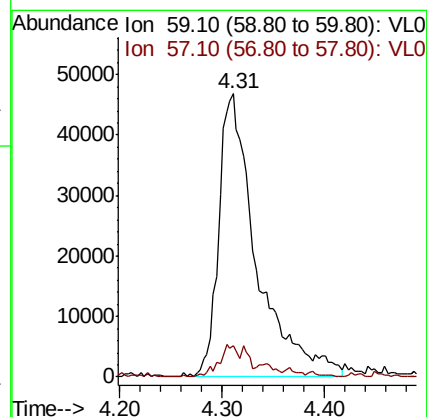
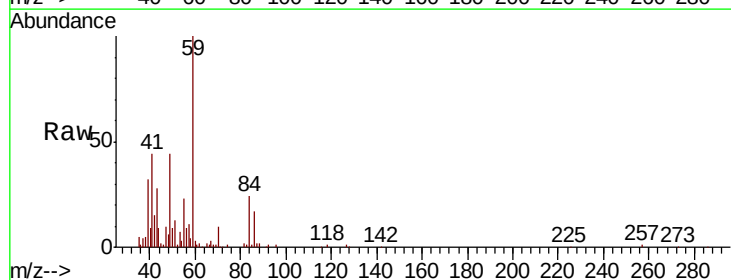
Manual Integrations
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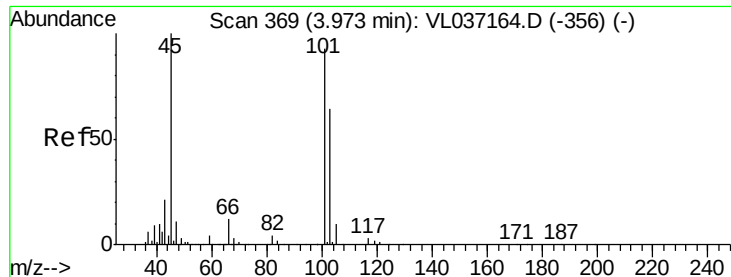
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#17
tert-Butyl alcohol
Concen: 0.668 ppbv m
RT: 4.31 min Scan# 474
Delta R.T. 0.02 min
Lab File: VL037251.D
Acq: 29 Jun 2021 16:22

Tgt Ion: 59 Resp: 120923
Ion Ratio Lower Upper
59 100
57 11.6 8.8 13.2





#19

Isopropyl Alcohol

Concen: 0.545 ppbv m

RT: 3.98 min Scan# 372

Delta R.T. 0.01 min

Lab File: VL037251.D

Acq: 29 Jun 2021 16:22

Instrument :

MSVOA_L

ClientSampled :

SV-1

Tot Ion: 45 Resp: 64581

Ion Ratio Lower Upper

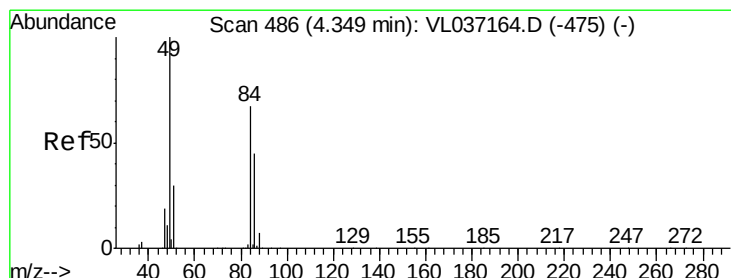
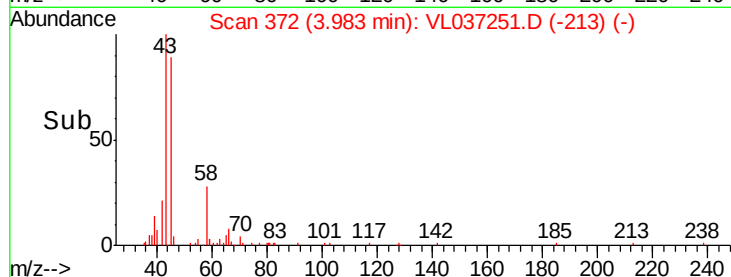
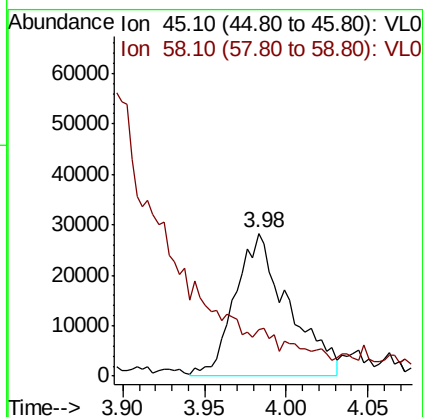
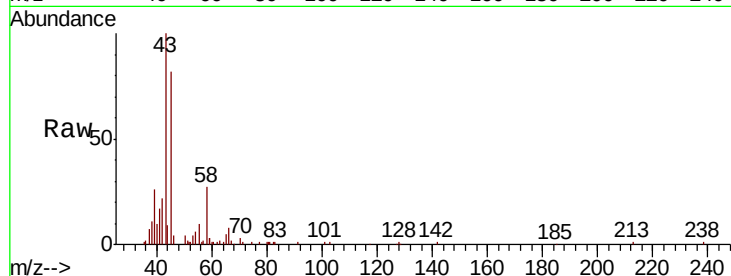
45 100

58 0.0 2.4 3.6#

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#20

Methylene Chloride

Concen: 10.676 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.01 min

Lab File: VL037251.D

Acq: 29 Jun 2021 16:22

Tgt Ion: 84 Resp: 1250929

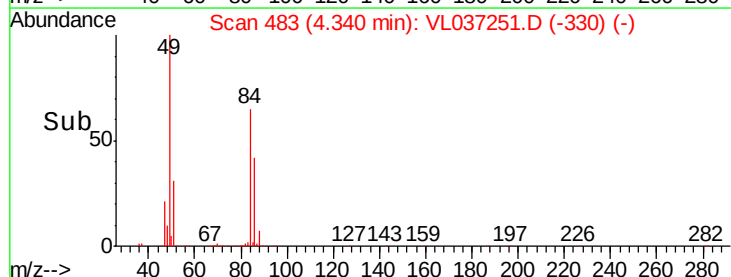
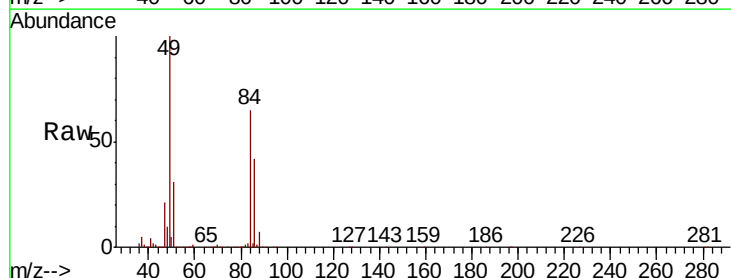
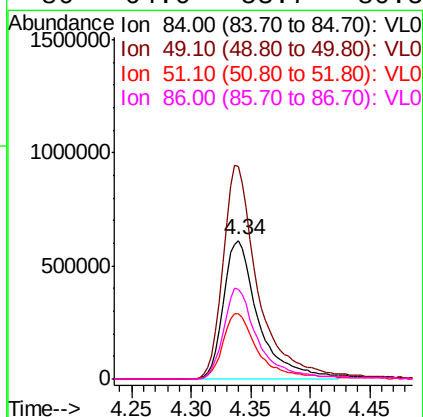
Ion Ratio Lower Upper

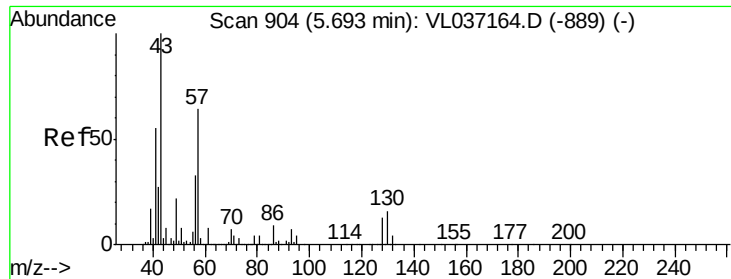
84 100

49 153.4 119.7 179.5

51 47.4 36.1 54.1

86 64.6 53.7 80.5





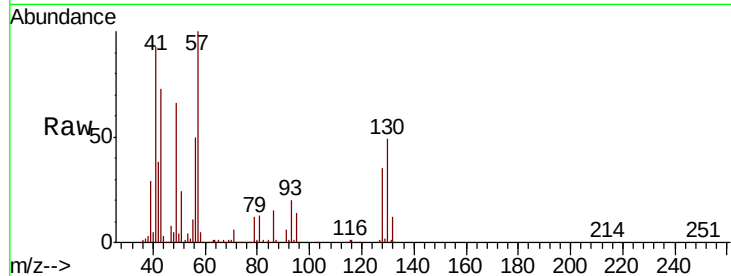
#26
Hexane
Concen: 4.451 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.01 min
Lab File: VL037251.D
Acq: 29 Jun 2021 16:22

Instrument :
MSVOA_L
ClientSampled :
SV-1

Tot Ion	Ratio	Lower	Upper
57	100		
41	93.1	73.5	110.3
43	70.4	170.7	256.1#
56	52.8	42.4	63.6

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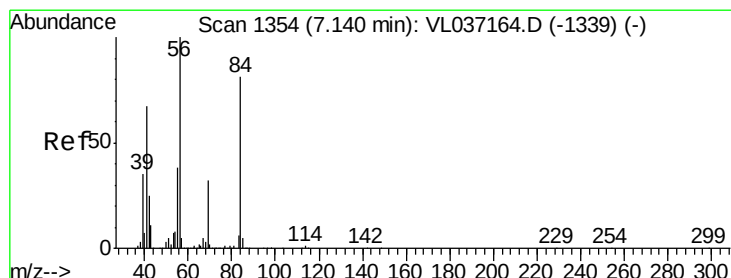
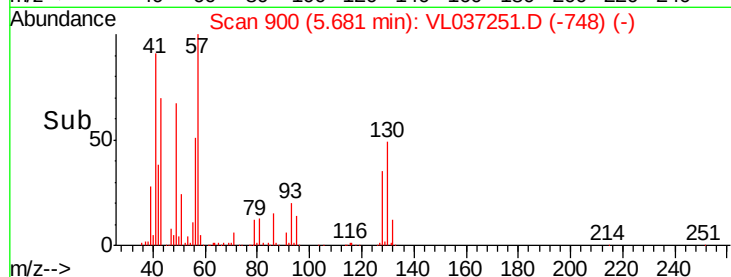
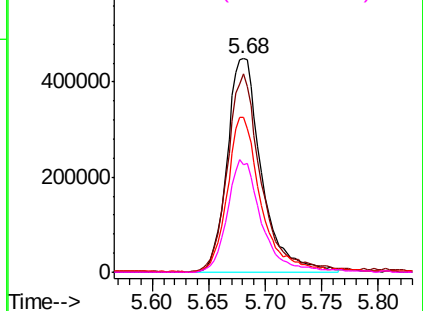
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

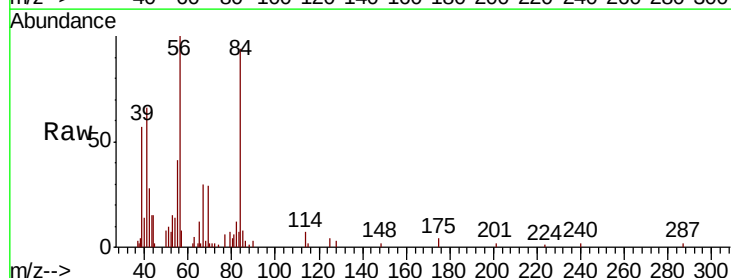
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#30
Cyclohexane
Concen: 0.117 ppbv
RT: 7.12 min Scan# 1347
Delta R.T. -0.02 min
Lab File: VL037251.D
Acq: 29 Jun 2021 16:22

Tgt Ion	Ratio	Lower	Upper
84	100		
56	0.0	107.7	161.5#
41	132.9	69.0	103.6#

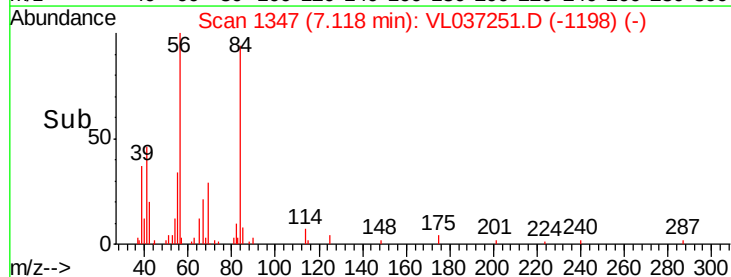
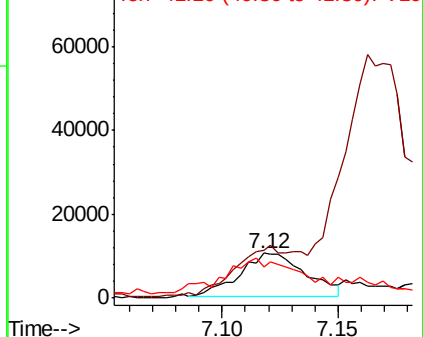


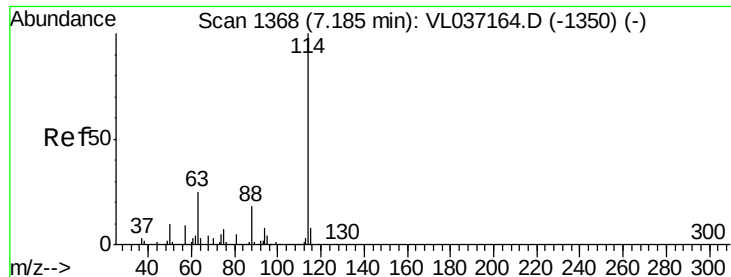
Abundance

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





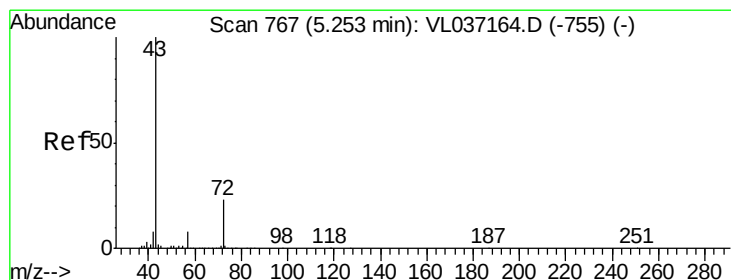
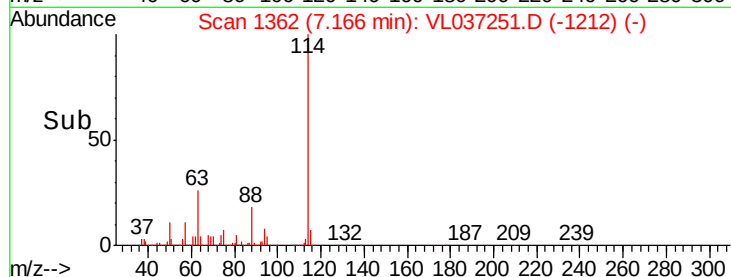
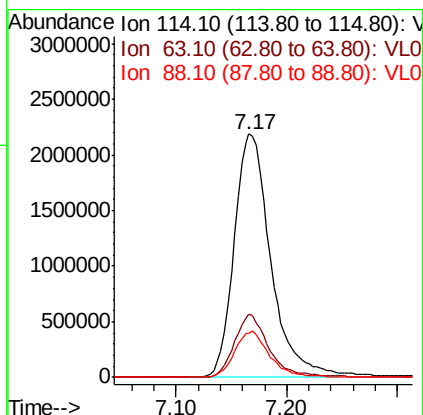
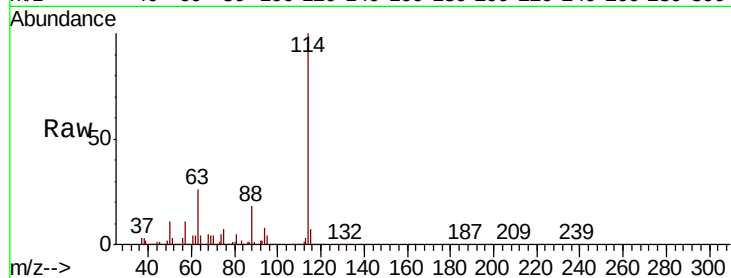
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. -0.02 min
 Lab File: VL037251.D
 Acq: 29 Jun 2021 16:22

Instrument :
 MSVOA_L
 ClientSampled :
 SV-1

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.7	19.6	29.4
88	18.5	14.2	21.2

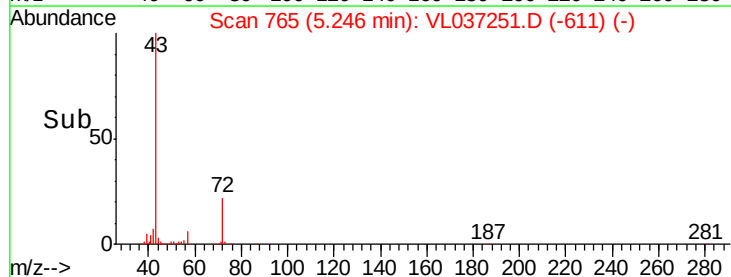
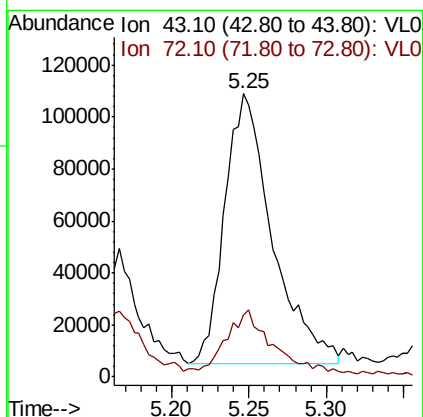
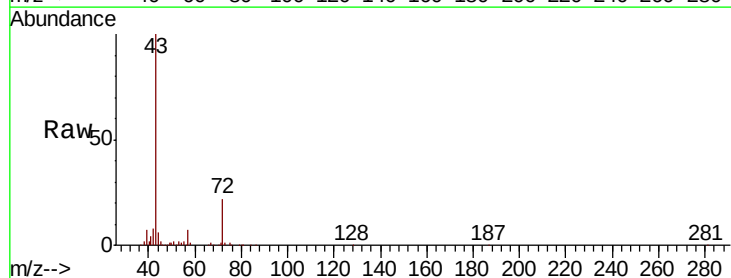
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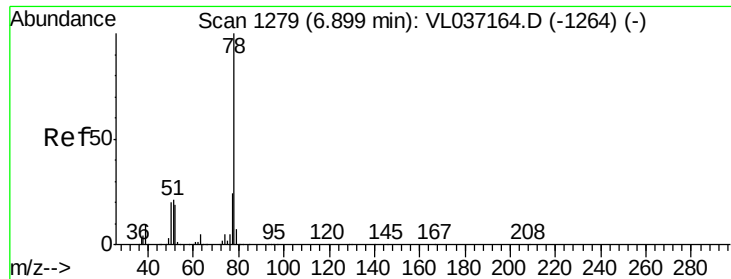
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#34
 2-Butanone
 Concen: 1.132 ppbv
 RT: 5.25 min Scan# 765
 Delta R.T. -0.01 min
 Lab File: VL037251.D
 Acq: 29 Jun 2021 16:22

Tgt Ion	Ratio	Lower	Upper
43	100		
72	28.5	18.9	28.3





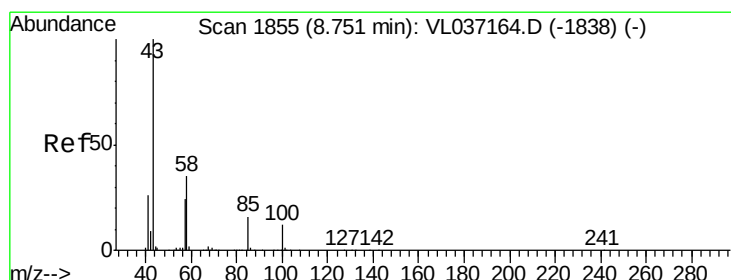
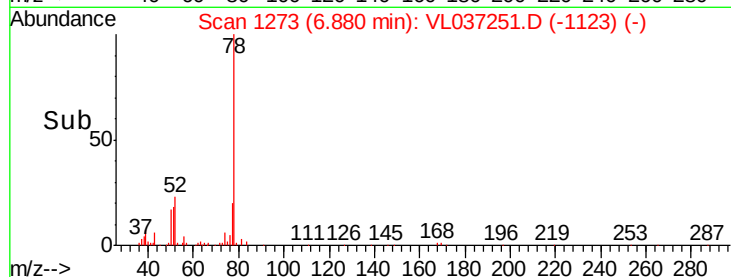
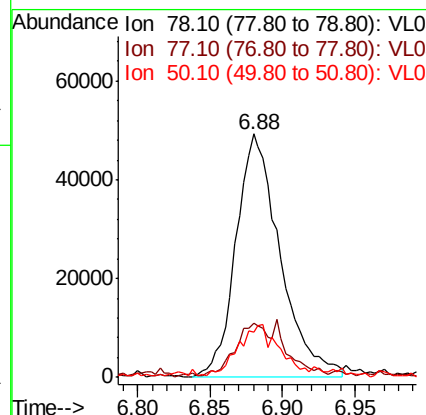
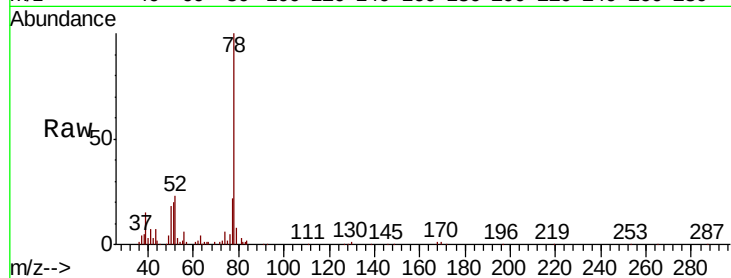
#36
Benzene
Concen: 0.258 ppbv
RT: 6.88 min Scan# 1273
Delta R.T. -0.02 min
Lab File: VL037251.D
Acq: 29 Jun 2021 16:22

Instrument :
MSVOA_L
ClientSampleId :
SV-1

Tot Ion	Ratio	Lower	Upper
78	100		
77	20.5	19.0	28.6
50	15.3	15.7	23.5#

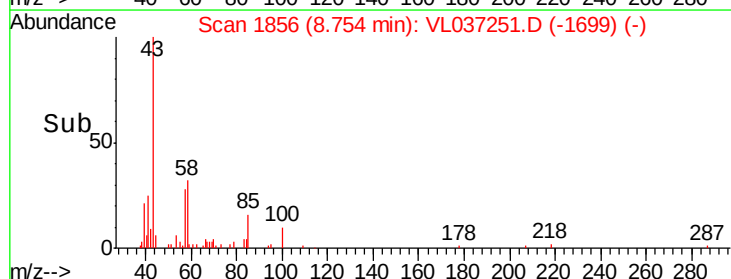
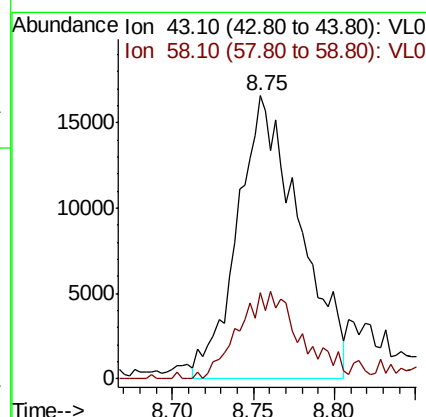
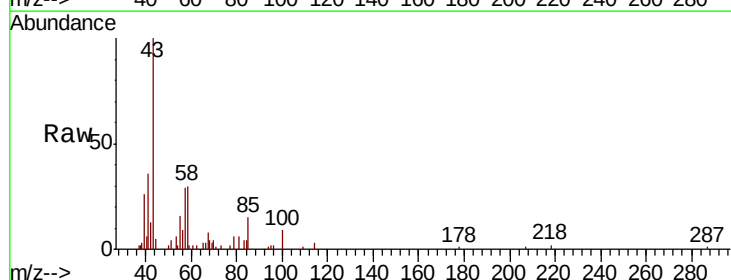
Manual Integrations
APPROVED

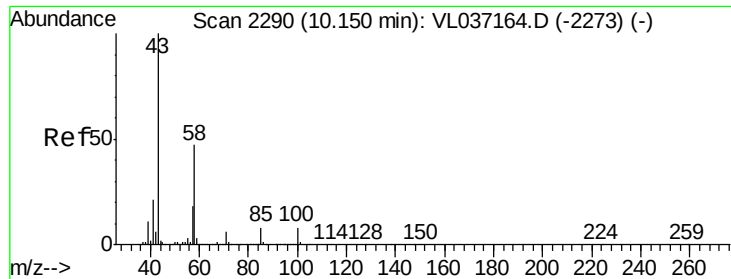
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#50
4-Methyl-2-Pentanone
Concen: 0.165 ppbv m
RT: 8.75 min Scan# 1856
Delta R.T. 0.00 min
Lab File: VL037251.D
Acq: 29 Jun 2021 16:22

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.4	42.6#





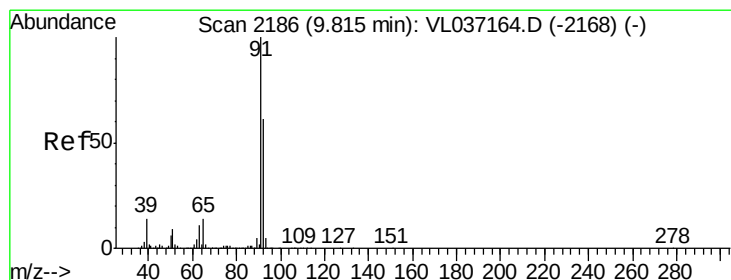
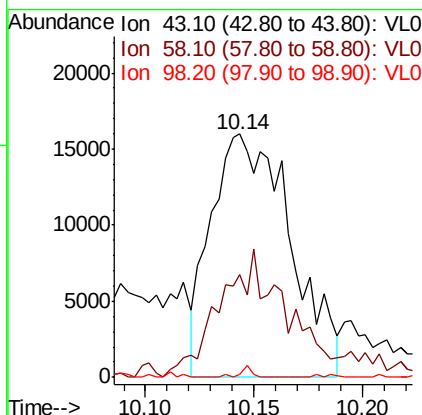
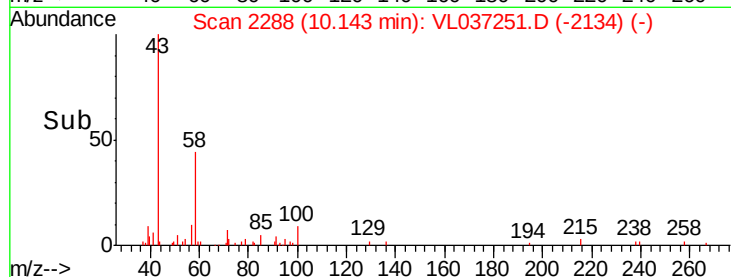
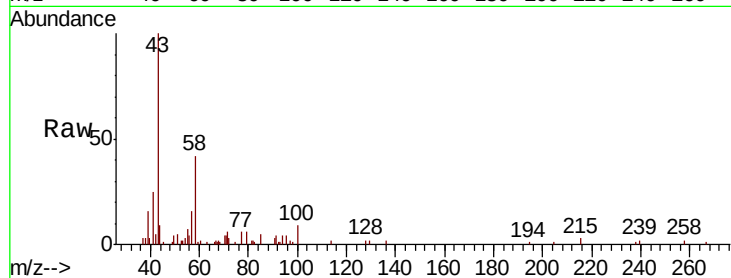
#51
2-Hexanone
Concen: 0.314 ppbv m
RT: 10.14 min Scan# 2288
Delta R.T. -0.01 min
Lab File: VL037251.D
Acq: 29 Jun 2021 16:22

Instrument :
MSVOA_L
ClientSampled :
SV-1

Tot Ion	Ratio	Lower	Upper
43	100		
58	0.0	38.4	57.6#
98	0.0	0.3	0.5#

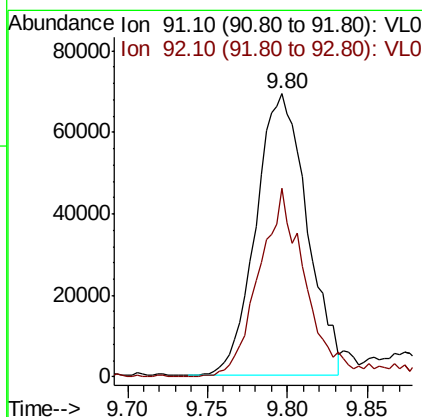
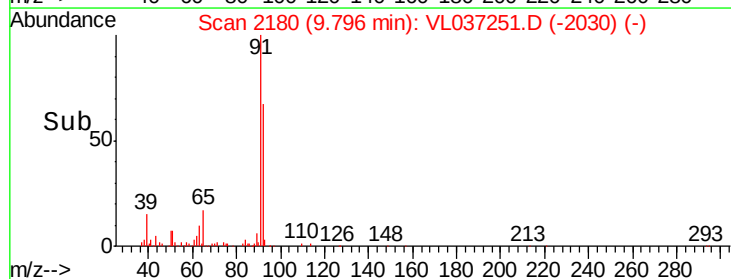
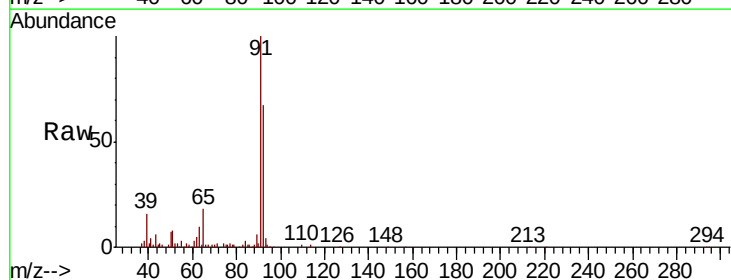
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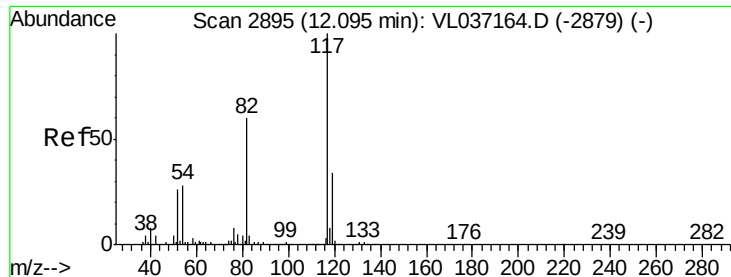
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#53
Toluene
Concen: 0.315 ppbv
RT: 9.80 min Scan# 2180
Delta R.T. -0.02 min
Lab File: VL037251.D
Acq: 29 Jun 2021 16:22

Tgt Ion	Ratio	Lower	Upper
91	100		
92	61.2	48.3	72.5





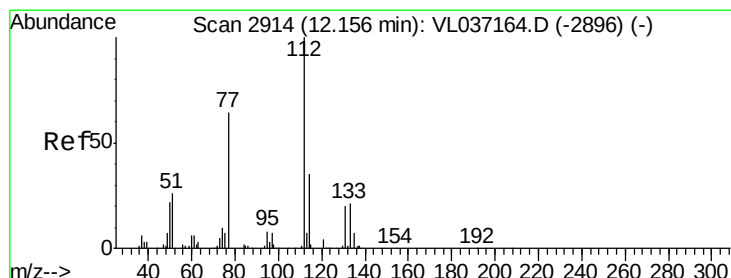
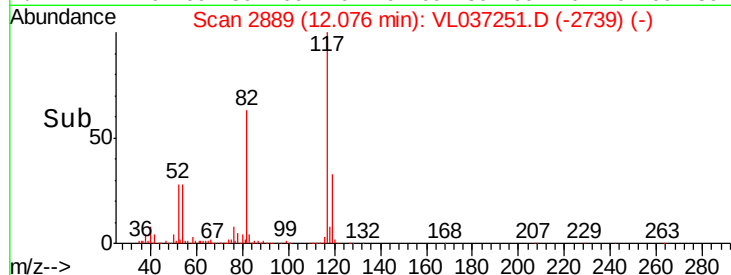
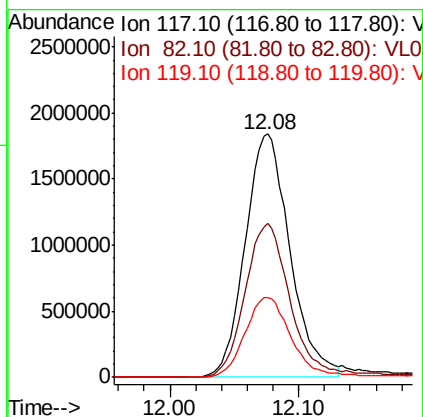
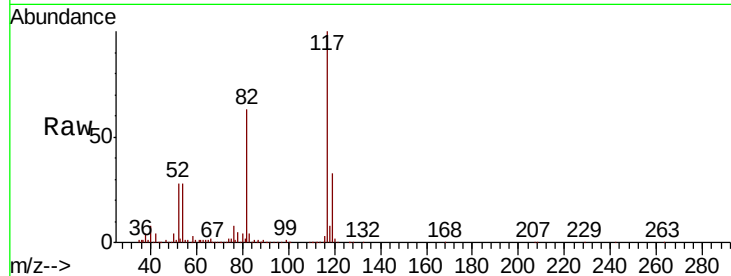
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2889
Delta R.T. -0.02 min
Lab File: VL037251.D
Acq: 29 Jun 2021 16:22

Instrument :
MSVOA_L
ClientSampled :
SV-1

Tot Ion:117 Resp: 4450678
Ion Ratio Lower Upper
117 100
82 66.5 51.7 77.5
119 34.8 47.6 71.4#

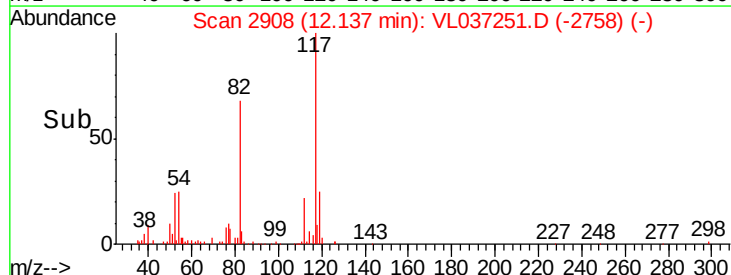
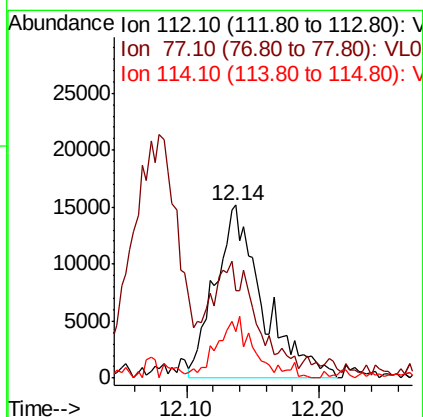
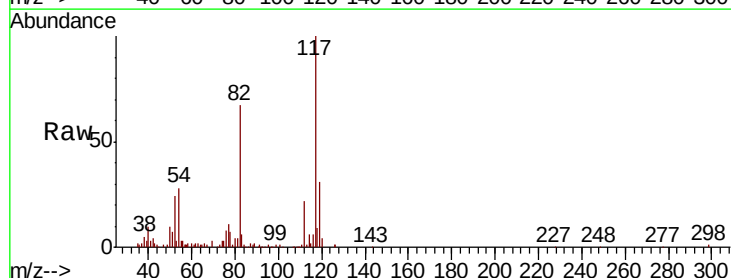
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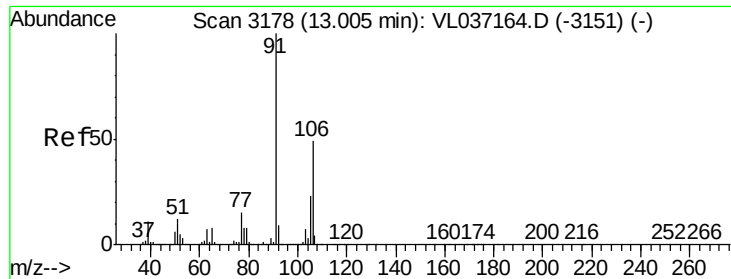
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#57
Chlorobenzene
Concen: 0.105 ppbv m
RT: 12.14 min Scan# 2908
Delta R.T. -0.02 min
Lab File: VL037251.D
Acq: 29 Jun 2021 16:22

Tgt Ion:112 Resp: 37865
Ion Ratio Lower Upper
112 100
77 50.6 52.2 78.4#
114 27.2 31.1 38.1#





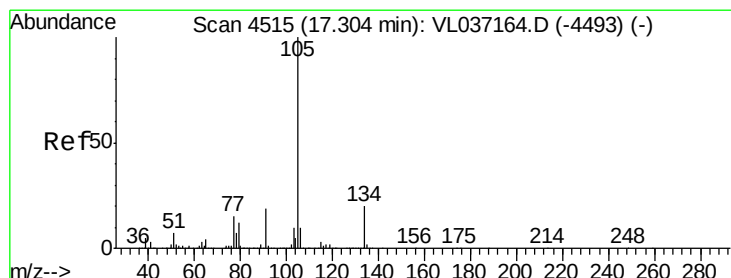
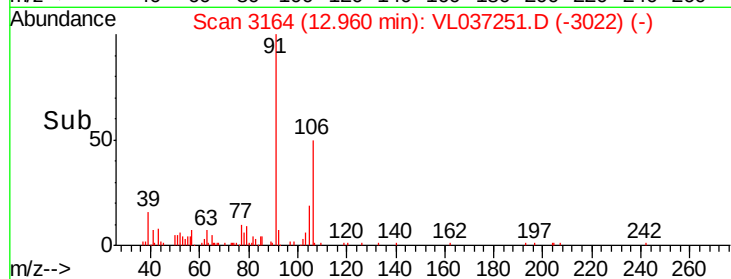
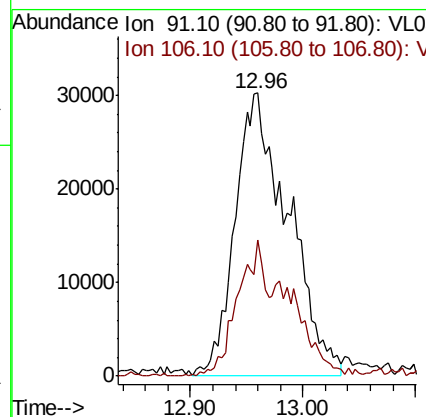
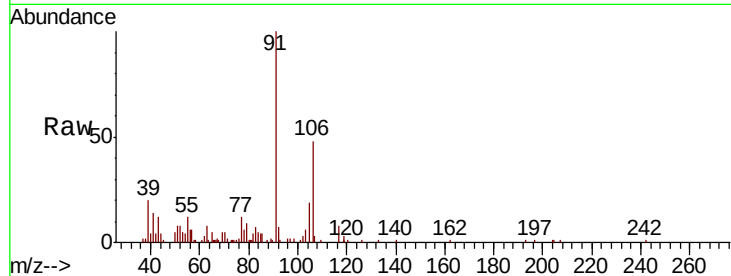
#59
m/p-Xylene
Concen: 0.191 ppbv m
RT: 12.96 min Scan# 3164
Delta R.T. -0.04 min
Lab File: VL037251.D
Acq: 29 Jun 2021 16:22

Instrument :
MSVOA_L
ClientSampled :
SV-1

Tot Ion: 91 Resp: 99402
Ion Ratio Lower Upper
91 100
106 0.0 37.0 55.4#

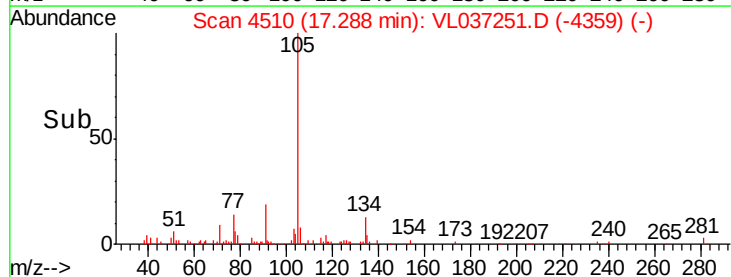
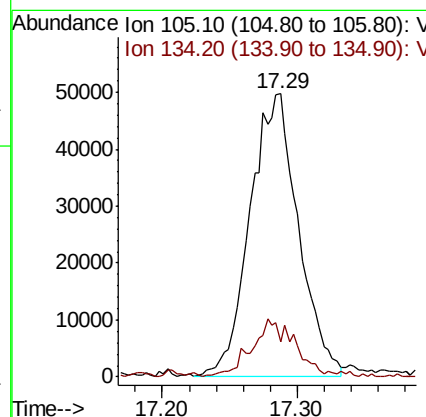
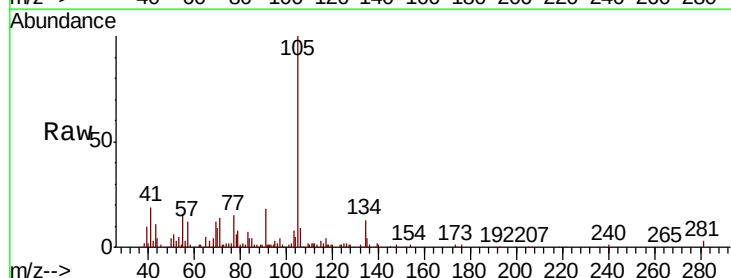
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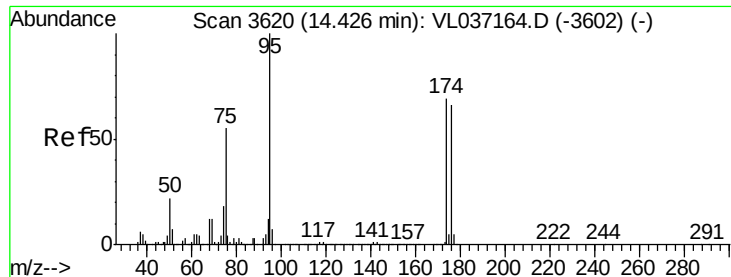
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#67
sec-Butylbenzene
Concen: 0.150 ppbv m
RT: 17.29 min Scan# 4510
Delta R.T. -0.02 min
Lab File: VL037251.D
Acq: 29 Jun 2021 16:22

Tgt Ion:105 Resp: 124386
Ion Ratio Lower Upper
105 100
134 18.7 15.8 23.6





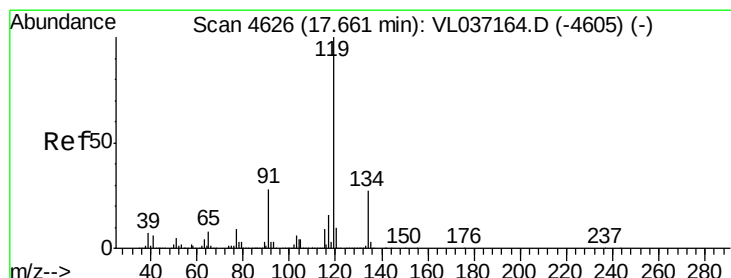
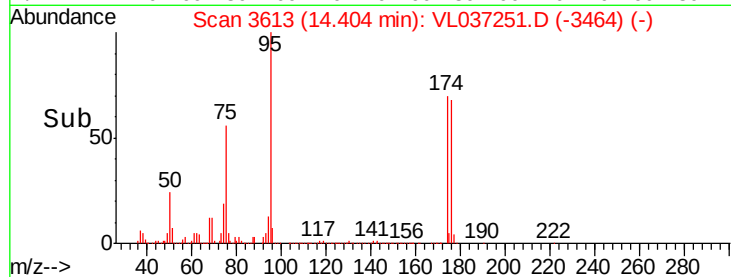
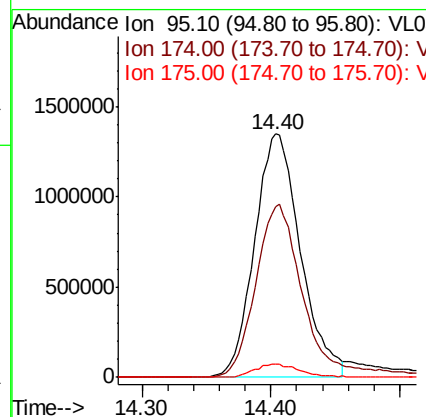
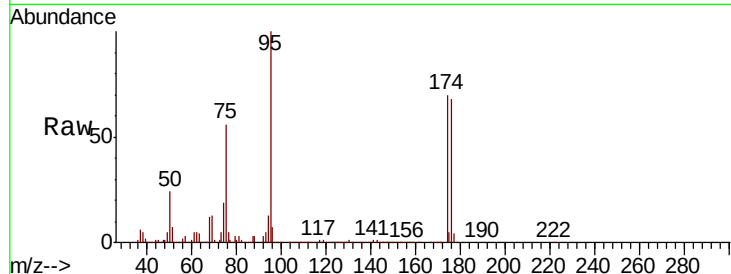
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.911 ppbv
 RT: 14.40 min Scan# 3613
 Delta R.T. -0.02 min
 Lab File: VL037251.D
 Acq: 29 Jun 2021 16:22

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1

Tot Ion: 95 Resp: 3342695
 Ion Ratio Lower Upper
 95 100
 174 77.0 57.0 85.4
 175 5.8 4.4 6.6

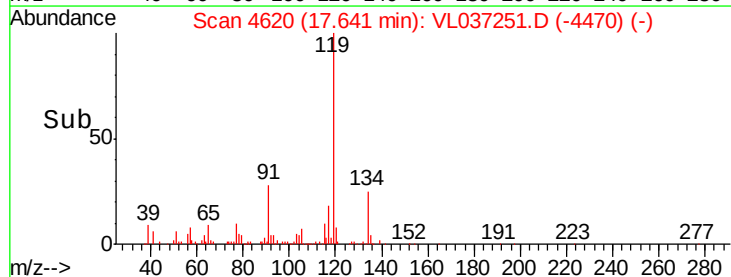
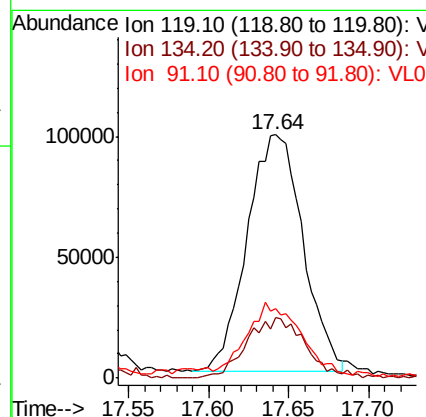
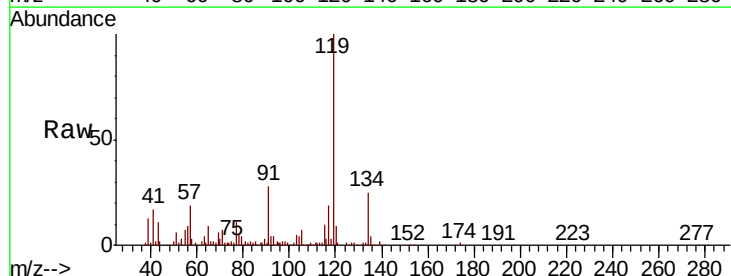
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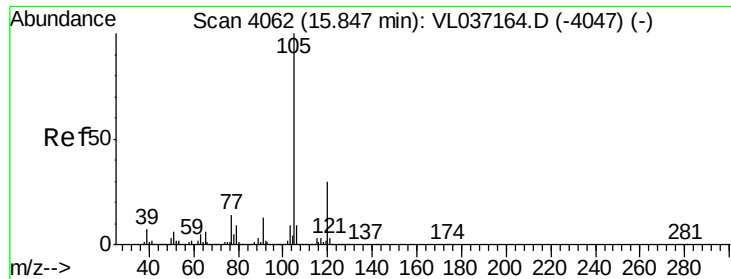
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#69
 p-Isopropyltoluene
 Concen: 0.335 ppbv
 RT: 17.64 min Scan# 4620
 Delta R.T. -0.02 min
 Lab File: VL037251.D
 Acq: 29 Jun 2021 16:22

Tgt Ion: 119 Resp: 235317
 Ion Ratio Lower Upper
 119 100
 134 27.5 20.9 31.3
 91 34.6 22.6 34.0#





#72

4-Ethyltoluene

Concen: 0.114 ppbv m

RT: 15.82 min Scan# 4055

Delta R.T. -0.02 min

Lab File: VL037251.D

Acq: 29 Jun 2021 16:22

Instrument :

MSVOA_L

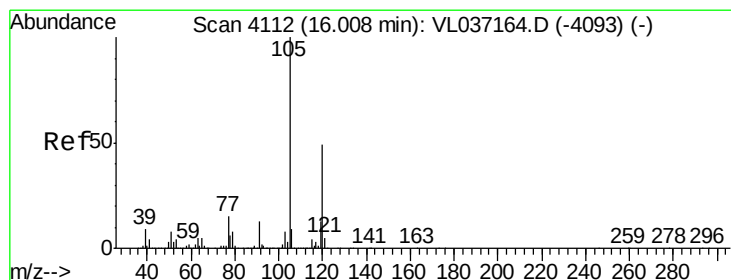
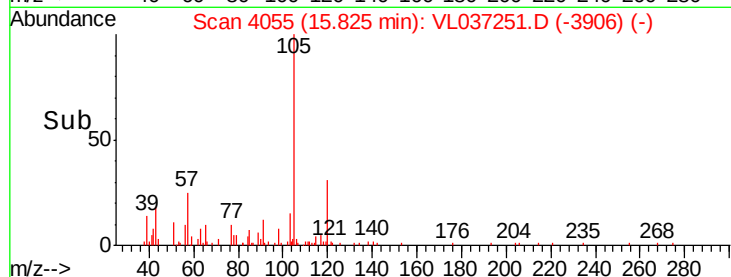
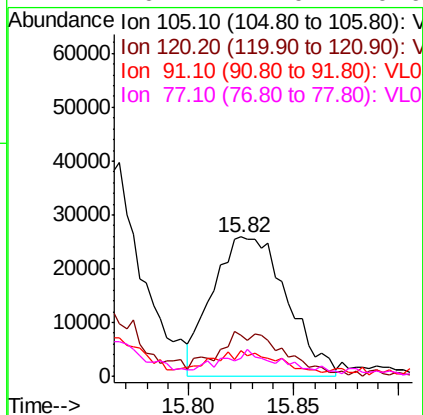
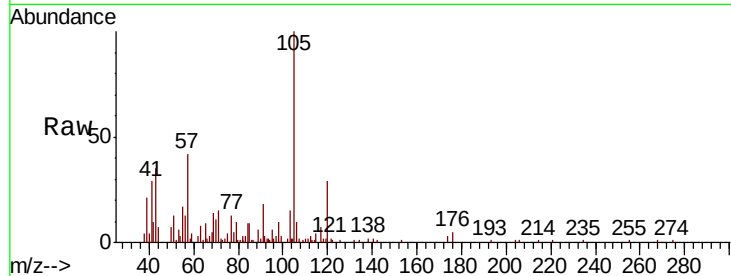
ClientSampled :

SV-1

Tot Ion:	105	Resp:	63887
Ion Ratio	Lower	Upper	
105	100		
120	31.1	24.7	37.1
91	14.4	10.2	15.4
77	20.1	11.0	16.6#

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#73

1,3,5-Trimethylbenzene

Concen: 0.117 ppbv m

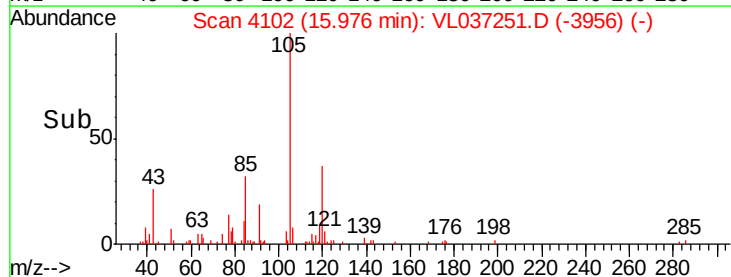
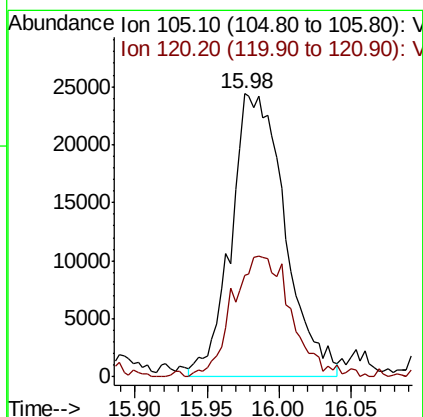
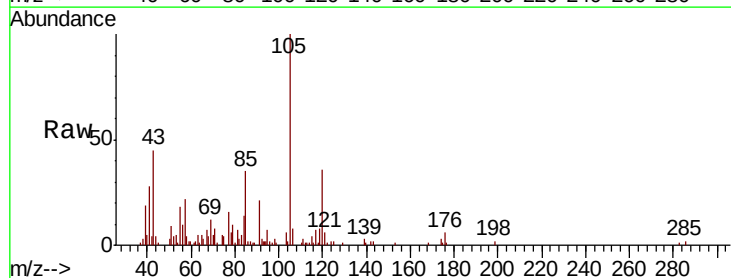
RT: 15.98 min Scan# 4102

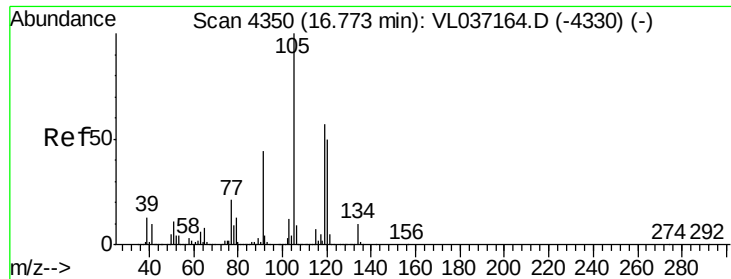
Delta R.T. -0.03 min

Lab File: VL037251.D

Acq: 29 Jun 2021 16:22

Tgt Ion:	105	Resp:	63633
Ion Ratio	Lower	Upper	
105	100		
120	35.9	39.4	59.2#





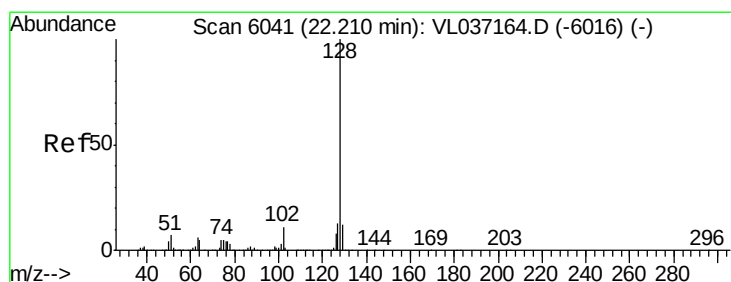
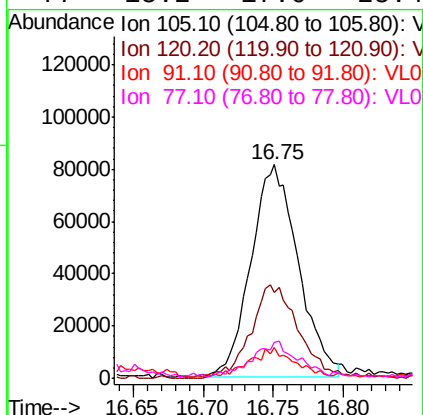
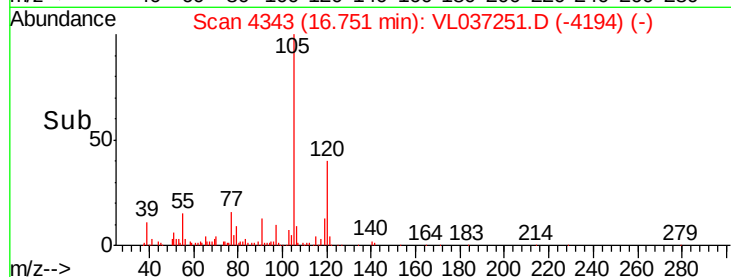
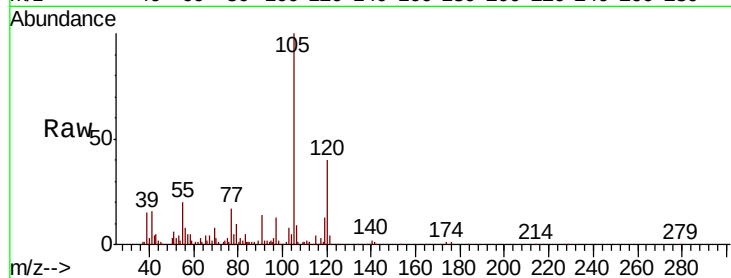
#74
 1,2,4-Trimethylbenzene
 Concen: 0.342 ppbv
 RT: 16.75 min Scan# 4343
 Delta R.T. -0.02 min
 Lab File: VL037251.D
 Acq: 29 Jun 2021 16:22

Instrument :
 MSVOA_L
 ClientSampled :
 SV-1

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	40.5	39.8	59.8
91	14.1	37.0	55.4#
77	15.2	17.0	25.4#

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#79
 Naphthalene
 Concen: 0.151 ppbv m
 RT: 22.19 min Scan# 6034
 Delta R.T. -0.02 min
 Lab File: VL037251.D
 Acq: 29 Jun 2021 16:22

Tgt Ion	Ratio	Resp Lower	Upper
128	100		
127	12.4	10.7	16.1
129	12.3	9.3	13.9

