

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062921\
 Data File : VL037248.D
 Acq On : 29 Jun 2021 14:22
 Operator : SY/AP
 Sample : M2887-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-2

Manual Integrations
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Quant Time: Jun 30 09:21:03 2021
 Quant Title :
 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	1494182	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.17	114	4381512	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.08	117	4262571	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	3378748	10.46	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	30037	0.116	ppbv	94
9) Propene	3.00	41	15745813	169.497	ppbv	94
10) Heptane	8.11	43	1629053	7.241	ppbv	98
11) Trichlorofluoromethane	3.94	101	55961m	0.202	ppbv	
13) Ethanol	3.60	45	207876	14.465	ppbv	51
15) Acetone	3.84	43	11487426m	68.176	ppbv	
17) tert-Butyl alcohol	4.29	59	440982	2.832	ppbv #	86
20) Methylene Chloride	4.34	84	501086	4.967	ppbv #	91
26) Hexane	5.68	57	2655647	14.405	ppbv #	41
27) Carbon Disulfide	4.54	76	149981	0.830	ppbv #	94
29) Chloroform	5.75	83	452159	1.588	ppbv	95
30) Cyclohexane	7.12	84	250123	1.628	ppbv	89
34) 2-Butanone	5.24	43	1320454	7.749	ppbv	99
35) Carbon Tetrachloride	7.01	117	9991m	0.034	ppbv	
36) Benzene	6.88	78	1933367	5.457	ppbv	98
52) Tetrachloroethene	11.21	164	8805m	0.053	ppbv	
53) Toluene	9.80	91	1679607	3.969	ppbv	98
58) Ethyl Benzene	12.70	91	371315	0.633	ppbv #	86
59) m/p-Xylene	12.96	91	600074	1.207	ppbv	98
60) o-Xylene	13.68	91	239873	0.507	ppbv	97
61) Styrene	13.52	104	90938	0.372	ppbv	91
62) Isopropylbenzene	14.65	105	111903	0.166	ppbv	95
64) n-propylbenzene	15.55	120	50356m	0.299	ppbv	
67) sec-Butylbenzene	17.28	105	600676	0.754	ppbv	95
69) p-Isopropyltoluene	17.64	119	1383525m	2.057	ppbv	
70) n-Butylbenzene	18.55	91	554110	0.890	ppbv #	40
72) 4-Ethyltoluene	15.83	105	210822	0.392	ppbv #	94
73) 1,3,5-Trimethylbenzene	15.98	105	462184	0.889	ppbv	97
74) 1,2,4-Trimethylbenzene	16.75	105	1086187	2.027	ppbv #	70
79) Naphthalene	22.19	128	1012110	2.266	ppbv #	96
80) Naphthalene,2-methyl-	24.96	142	72063m	0.615	ppbv	

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

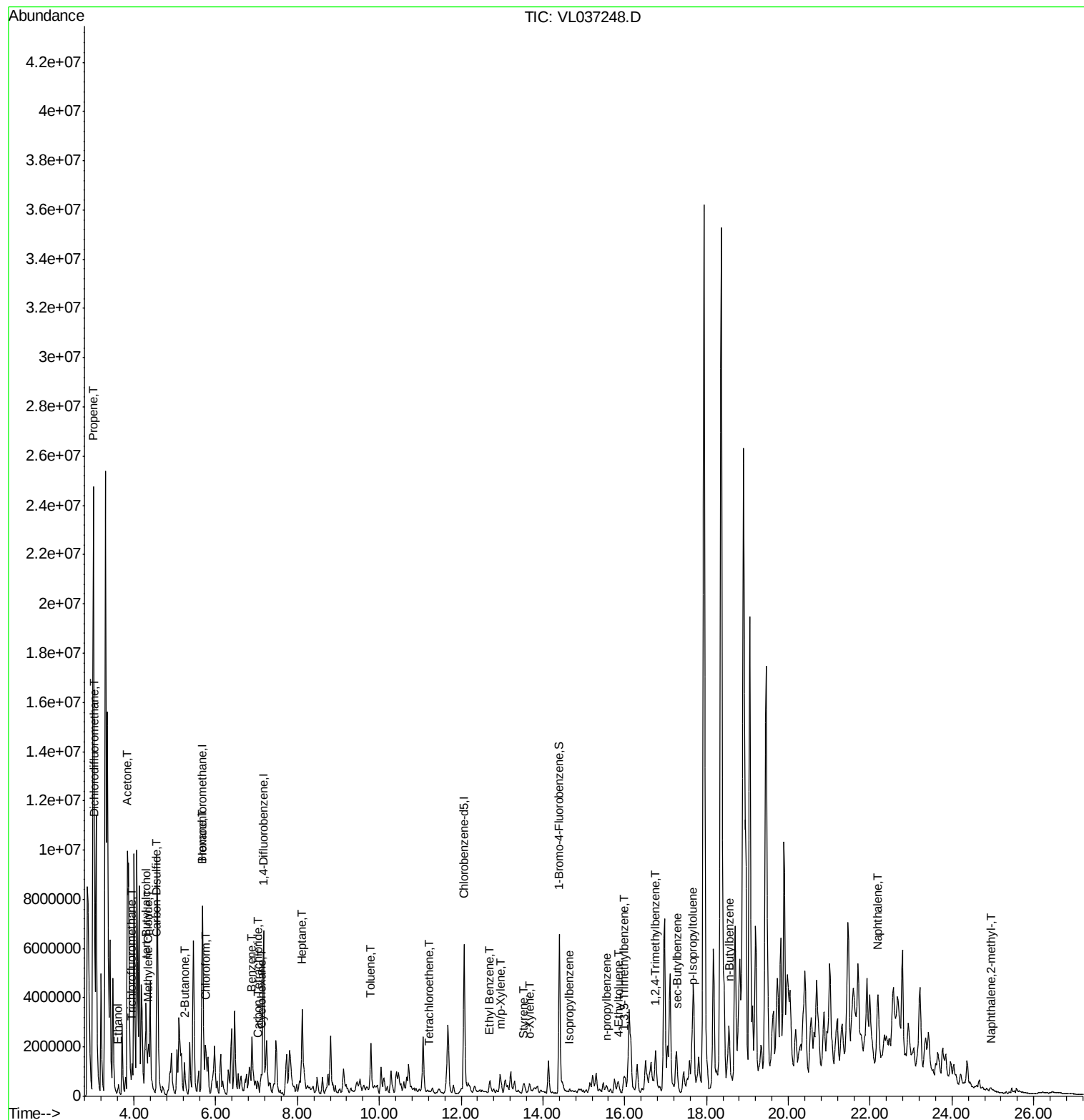
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL062921\
Data File : VL037248.D
Acq On : 29 Jun 2021 14:22
Operator : SY/AP
Sample : M2887-02
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

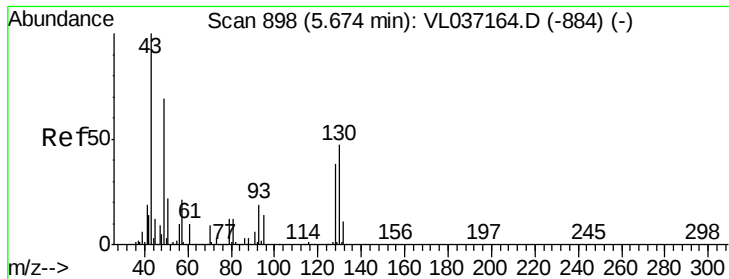
Instrument :
MSVOA_L
ClientSampleId :
SV-2

Quant Time: Jun 30 09:21:03 2021
Quant Title :
QLast Update : Wed Jun 16 14:06:32 2021
Response via : Initial Calibration

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.01 min

Lab File: VL037248.D

Acq: 29 Jun 2021 14:22

Instrument :

MSVOA_L

ClientSampled :

SV-2

Tot Ion: 49 Resp: 1494182

Ion Ratio Lower Upper

49 100

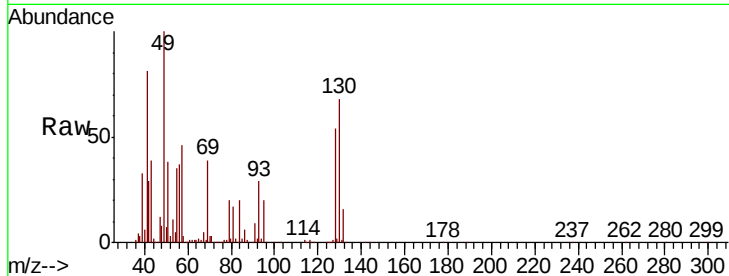
128 55.4 29.3 88.0

130 71.3 35.9 107.8

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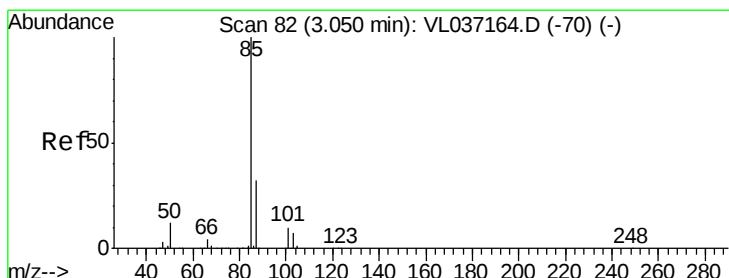
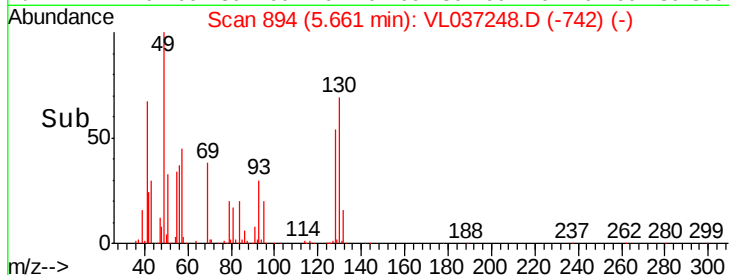
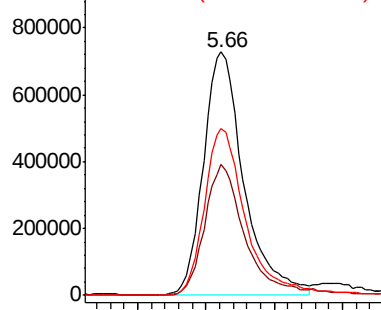
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.116 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL037248.D

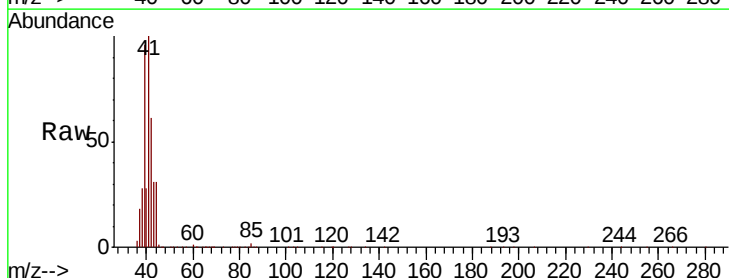
Acq: 29 Jun 2021 14:22

Tgt Ion: 85 Resp: 30037

Ion Ratio Lower Upper

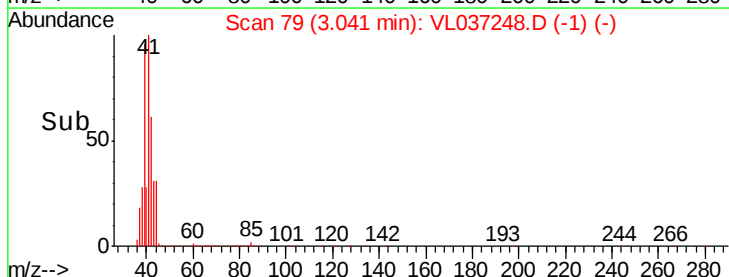
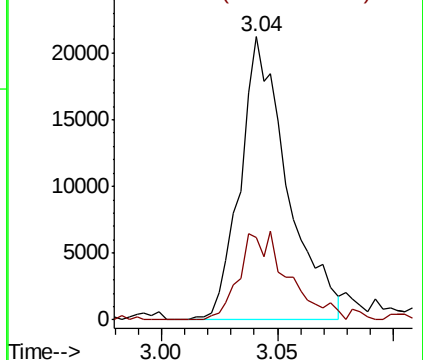
85 100

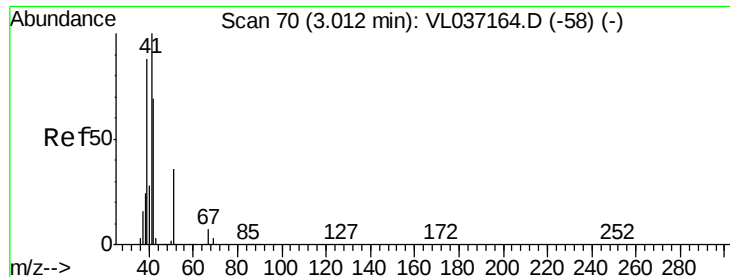
87 29.0 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#9

Propene

Concen: 169.497 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.01 min

Lab File: VL037248.D

Acq: 29 Jun 2021 14:22

Instrument :

MSVOA_L

ClientSampleId :

SV-2

Tot Ion: 41 Resp:15745813

Ion Ratio Lower Upper

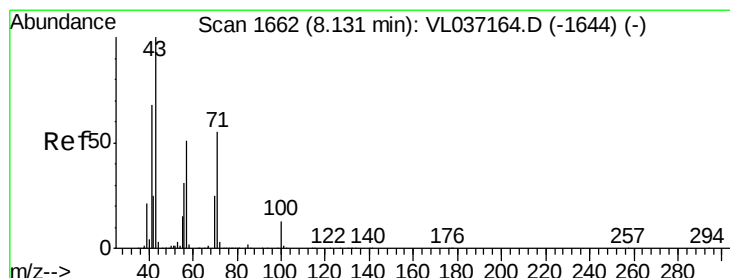
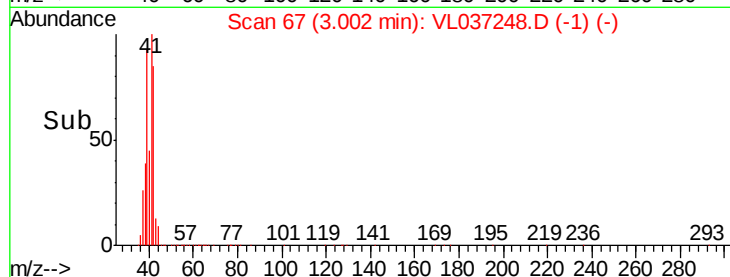
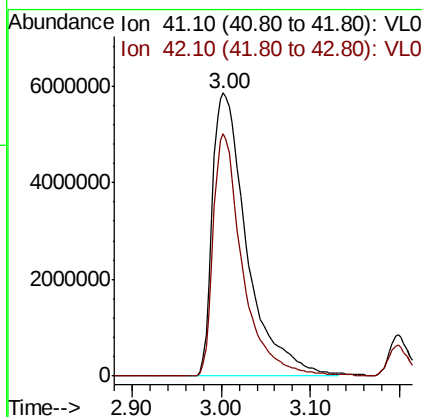
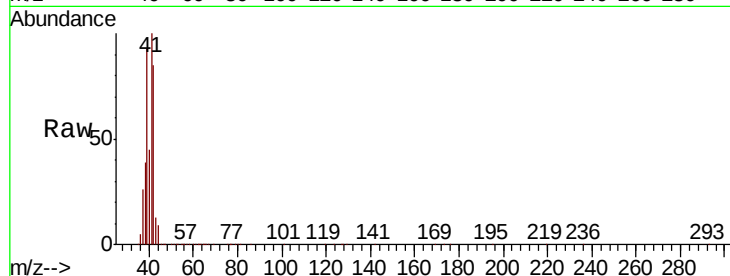
41 100

42 72.8 54.5 81.7

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#10

Heptane

Concen: 7.241 ppbv

RT: 8.11 min Scan# 1656

Delta R.T. -0.02 min

Lab File: VL037248.D

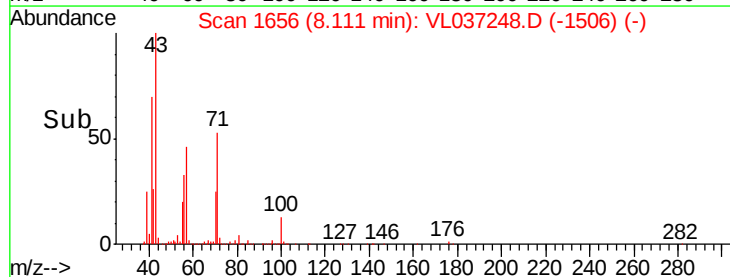
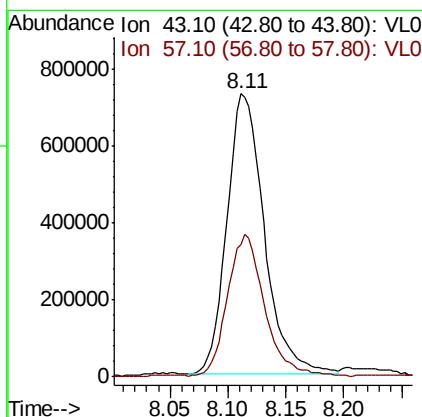
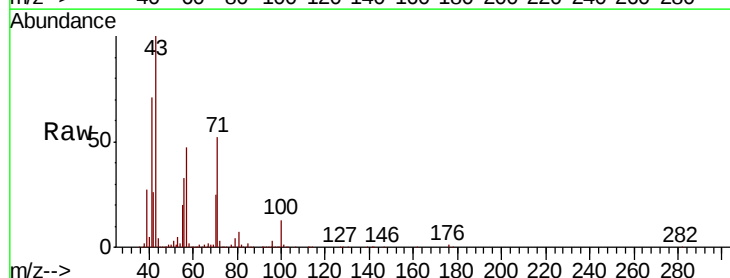
Acq: 29 Jun 2021 14:22

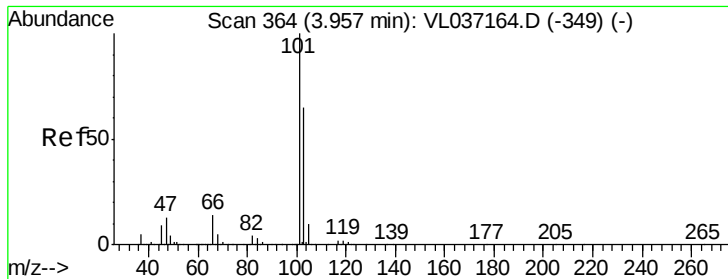
Tgt Ion: 43 Resp: 1629053

Ion Ratio Lower Upper

43 100

57 49.6 40.6 61.0





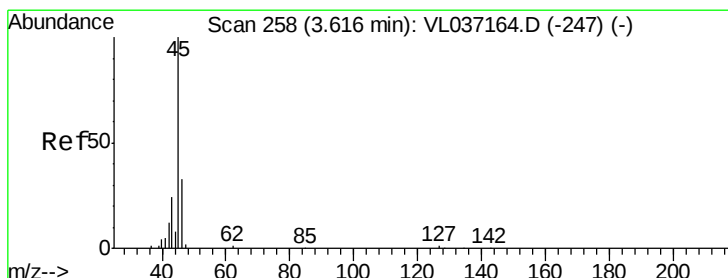
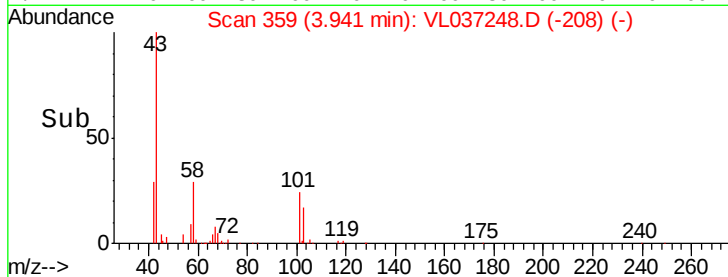
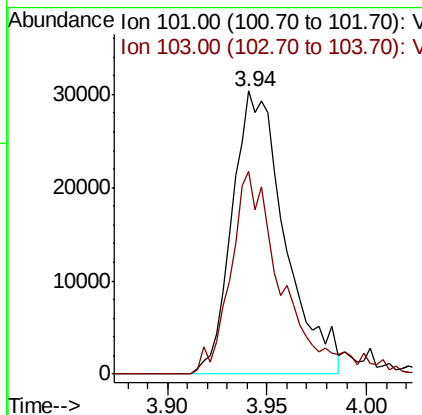
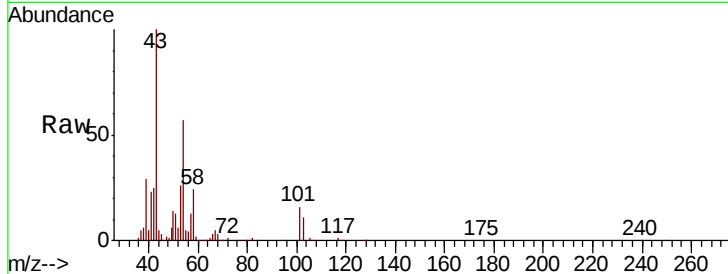
#11
 Trichlorofluoromethane
 Concen: 0.202 ppbv m
 RT: 3.94 min Scan# 359
 Delta R.T. -0.02 min
 Lab File: VL037248.D
 Acq: 29 Jun 2021 14:22

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-2

Tot Ion	Ratio	Lower	Upper
101	100		
103	71.7	52.2	78.4

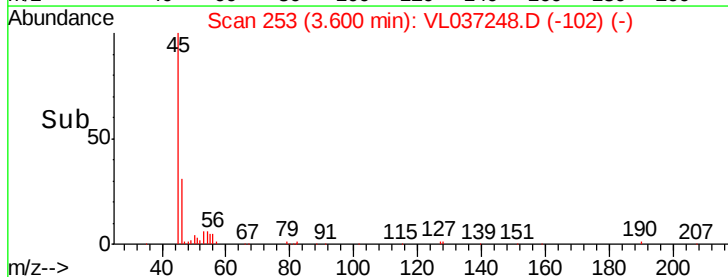
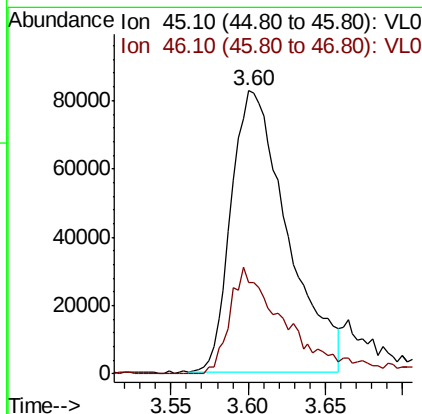
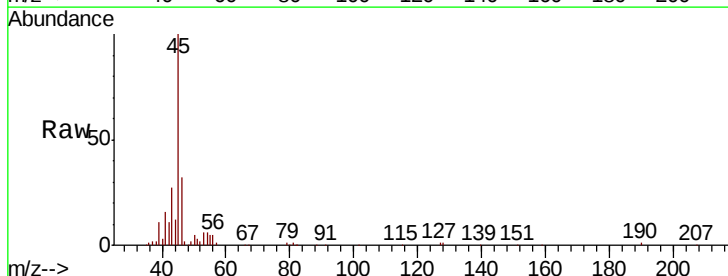
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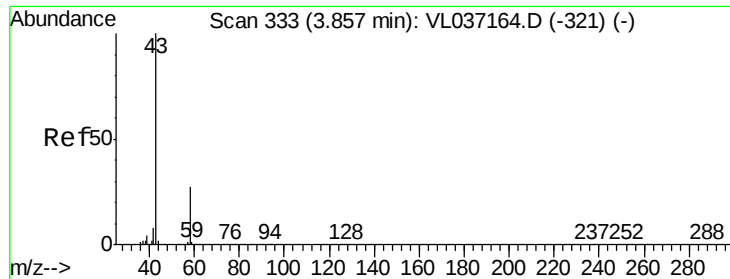
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#13
 Ethanol
 Concen: 14.465 ppbv
 RT: 3.60 min Scan# 253
 Delta R.T. -0.02 min
 Lab File: VL037248.D
 Acq: 29 Jun 2021 14:22

Tgt Ion	Ratio	Lower	Upper
45	100		
46	41.0	34.2	137.0





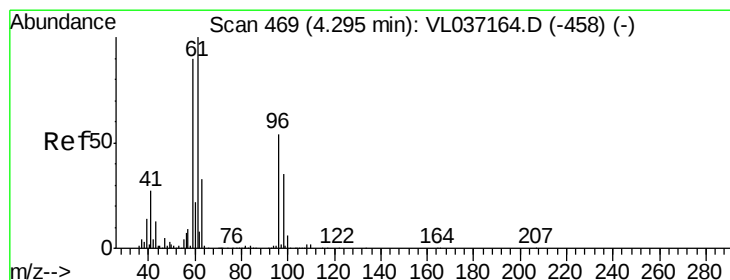
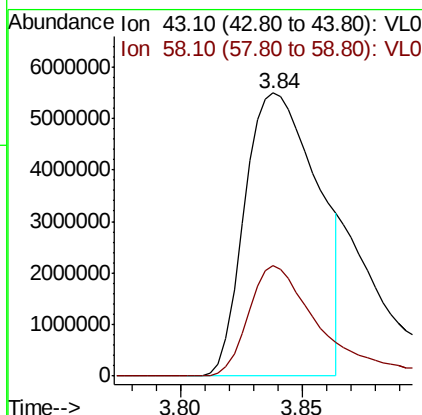
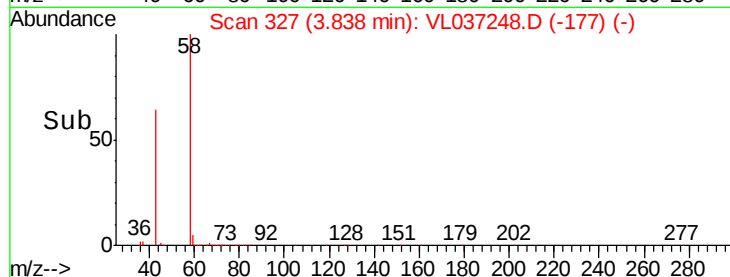
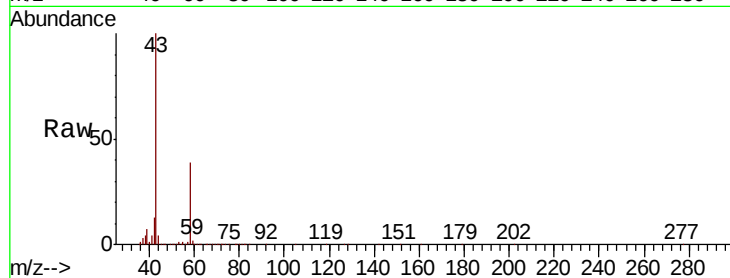
#15
Acetone
Concen: 68.176 ppbv m
RT: 3.84 min Scan# 327
Delta R.T. -0.02 min
Lab File: VL037248.D
Acq: 29 Jun 2021 14:22

Instrument :
MSVOA_L
ClientSampled :
SV-2

Tot Ion: 43 Resp: 11487426
Ion Ratio Lower Upper
43 100
58 40.5 23.7 35.5#

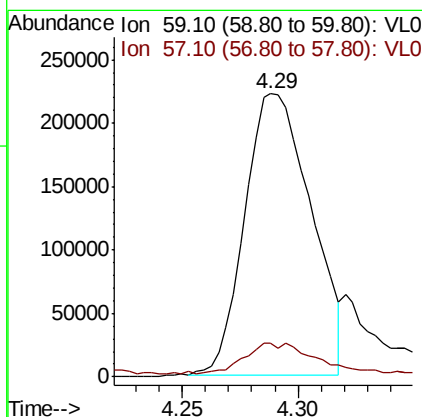
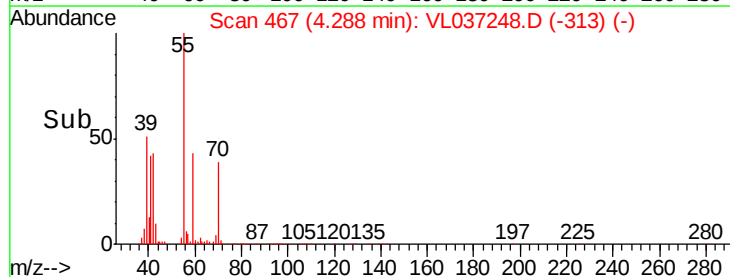
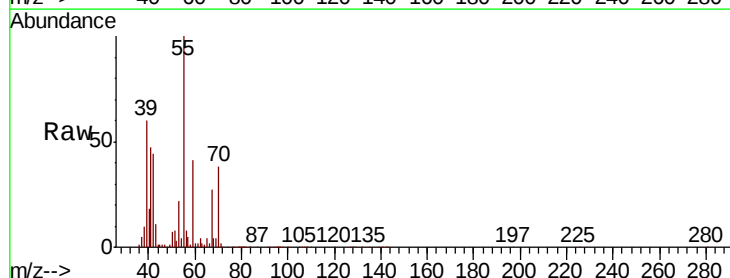
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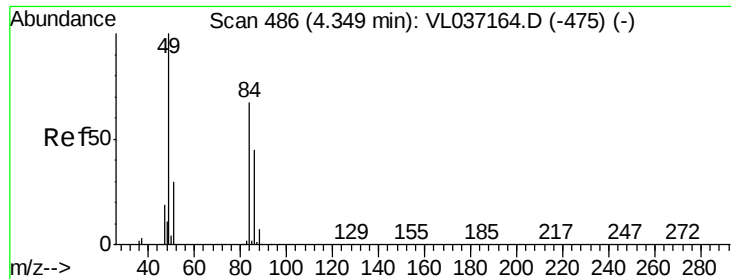
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#17
tert-Butyl alcohol
Concen: 2.832 ppbv
RT: 4.29 min Scan# 467
Delta R.T. -0.01 min
Lab File: VL037248.D
Acq: 29 Jun 2021 14:22

Tgt Ion: 59 Resp: 440982
Ion Ratio Lower Upper
59 100
57 16.3 8.8 13.2#





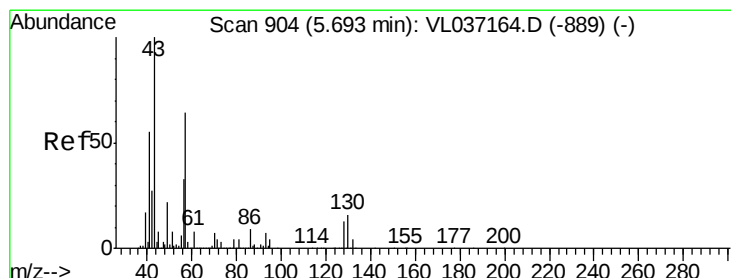
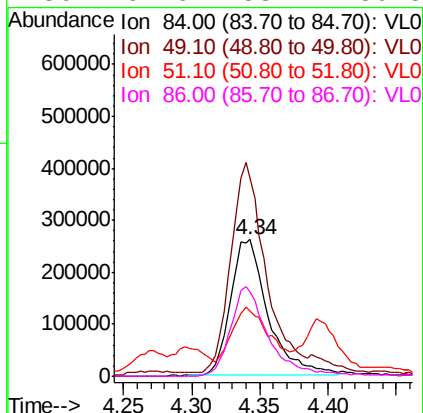
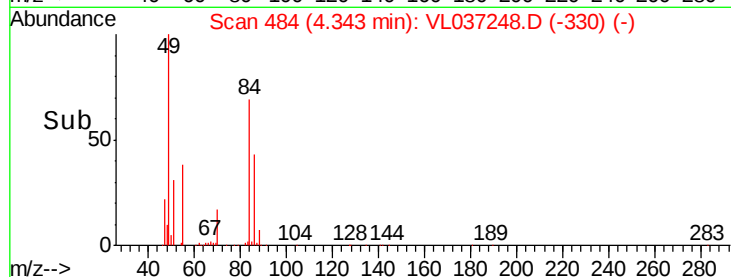
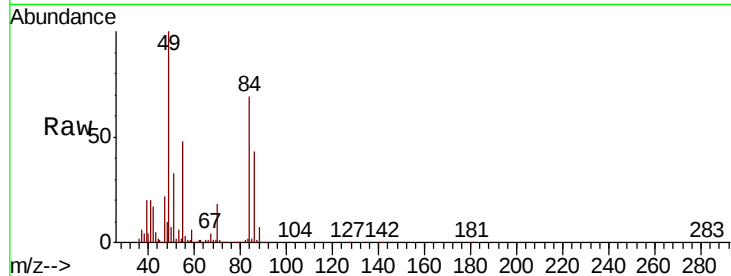
#20
Methvlene Chloride
Concen: 4.967 ppbv
RT: 4.34 min Scan# 484
Delta R.T. -0.01 min
Lab File: VL037248.D
Acq: 29 Jun 2021 14:22

Instrument :
MSVOA_L
ClientSampled :
SV-2

Tot Ion	Ratio	Lower	Upper
84	100		
49	143.1	119.7	179.5
51	27.3	36.1	54.1#
86	62.6	53.7	80.5

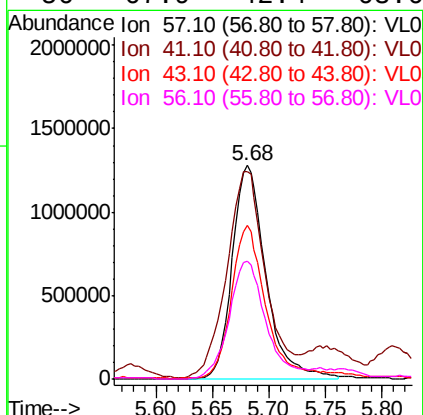
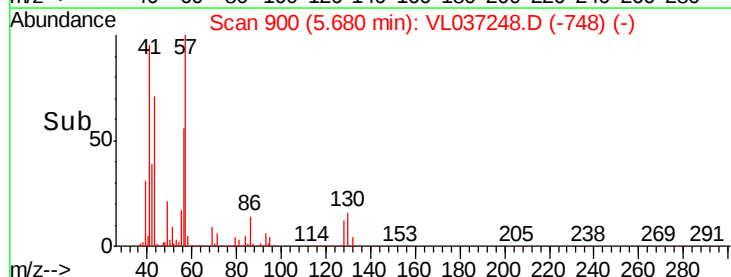
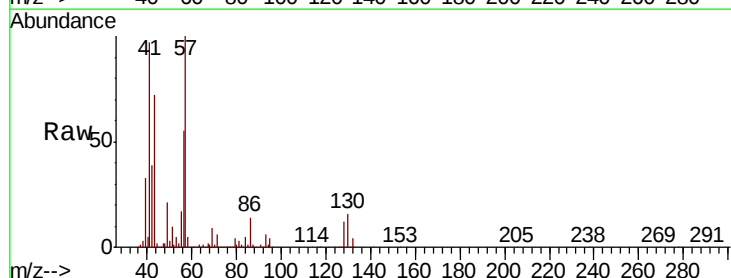
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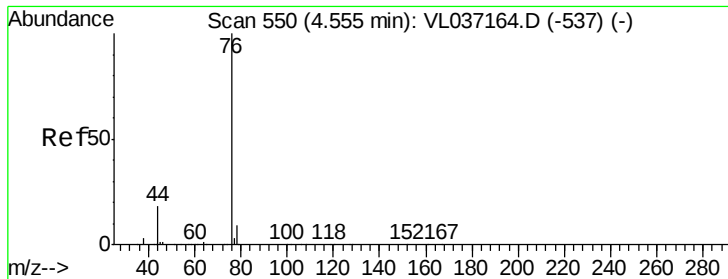
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#26
Hexane
Concen: 14.405 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.01 min
Lab File: VL037248.D
Acq: 29 Jun 2021 14:22

Tgt Ion	Ratio	Lower	Upper
57	100		
41	109.1	73.5	110.3
43	77.1	170.7	256.1#
56	67.9	42.4	63.6#





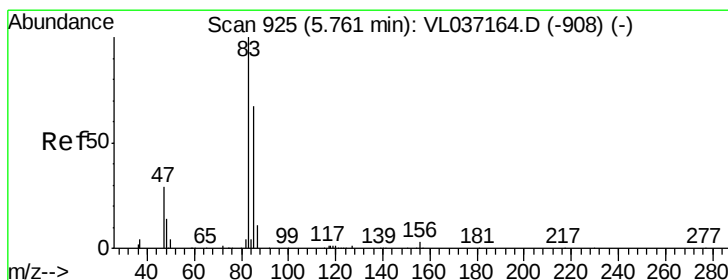
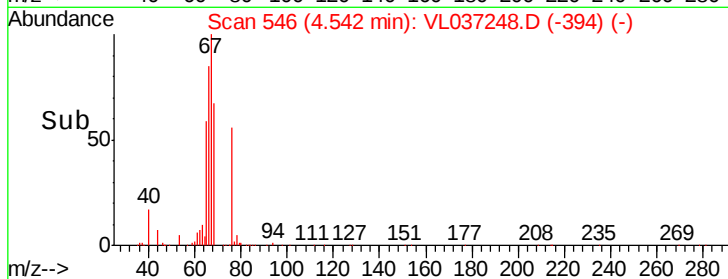
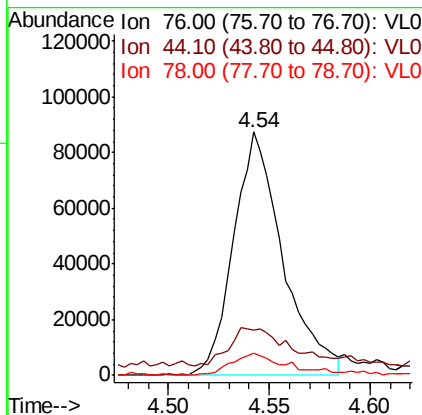
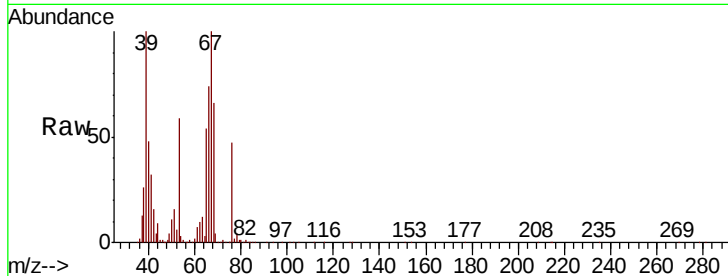
#27
Carbon Disulfide
Concen: 0.830 ppbv
RT: 4.54 min Scan# 546
Delta R.T. -0.01 min
Lab File: VL037248.D
Acq: 29 Jun 2021 14:22

Instrument :
MSVOA_L
ClientSampled :
SV-2

Tot Ion	Ratio	Lower	Upper
76	100		
44	23.4	15.4	23.2#
78	10.4	8.0	12.0

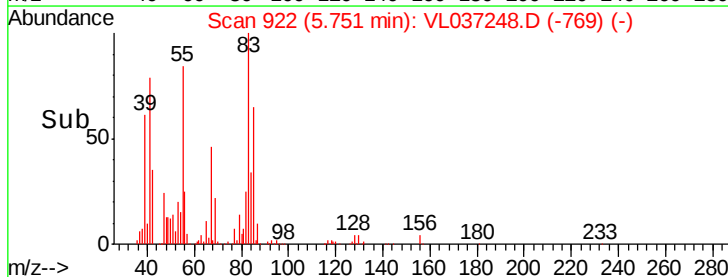
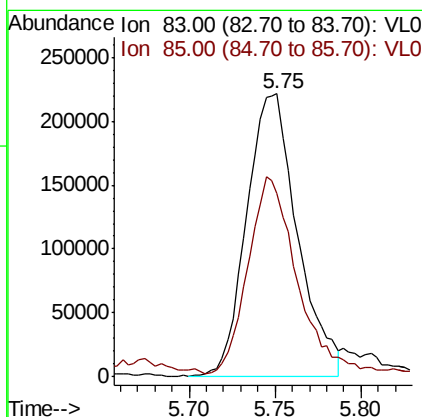
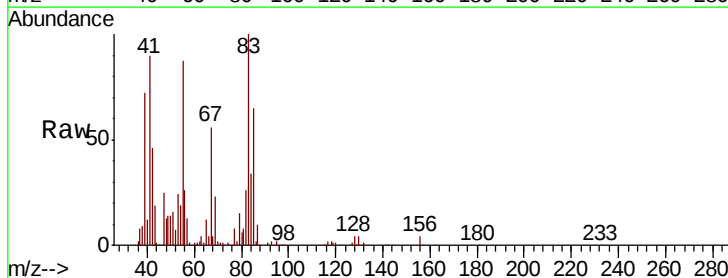
Manual Integrations
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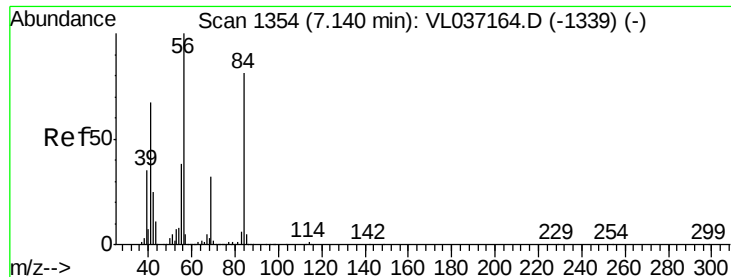
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#29
Chloroform
Concen: 1.588 ppbv
RT: 5.75 min Scan# 922
Delta R.T. -0.01 min
Lab File: VL037248.D
Acq: 29 Jun 2021 14:22

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.6	53.6	80.4





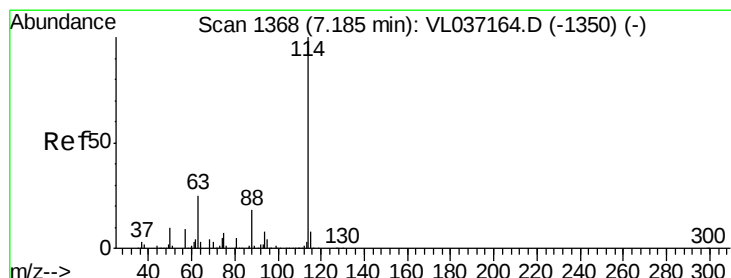
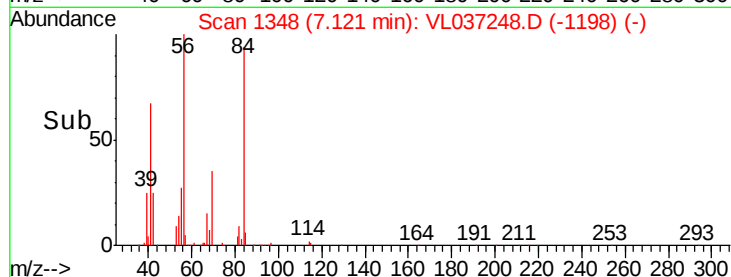
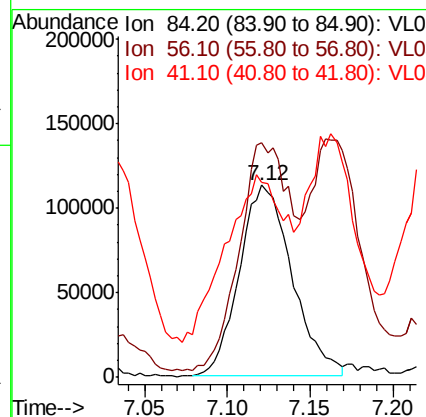
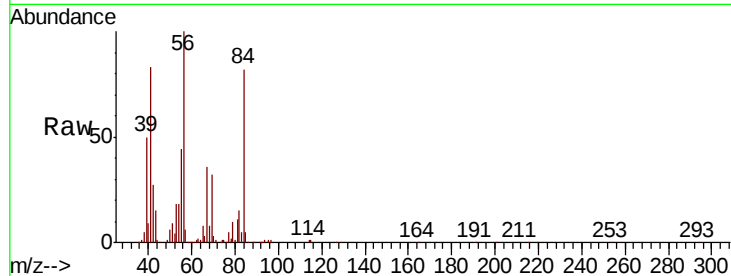
#30
Cyclohexane
Concen: 1.628 ppbv
RT: 7.12 min Scan# 1348
Delta R.T. -0.02 min
Lab File: VL037248.D
Acq: 29 Jun 2021 14:22

Instrument :
MSVOA_L
ClientSampleId :
SV-2

Tot Ion	Ratio	Lower	Upper
84	100		
56	123.8	107.7	161.5
41	98.1	69.0	103.6

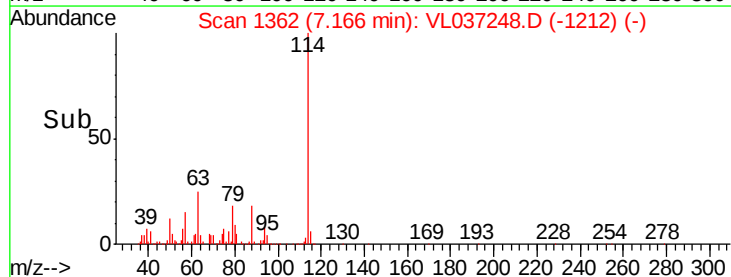
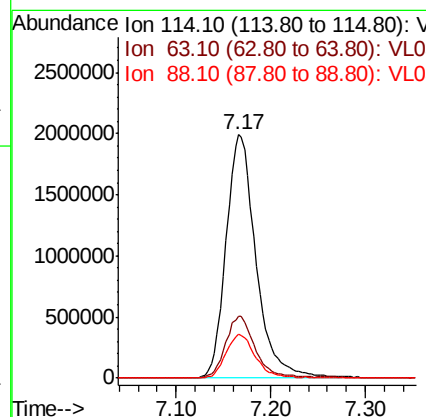
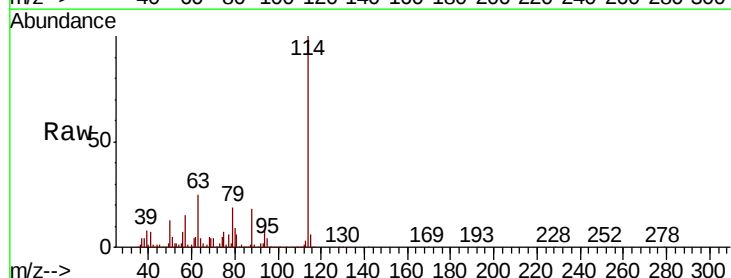
Manual Integrations
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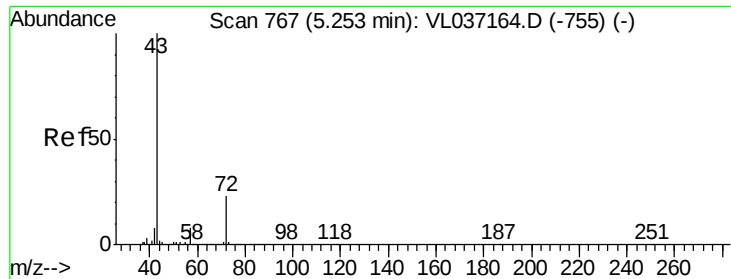
MMDadoda
7/5/2021 3:38:08 PM



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1362
Delta R.T. -0.02 min
Lab File: VL037248.D
Acq: 29 Jun 2021 14:22

Tgt Ion	Ratio	Lower	Upper
114	100		
63	25.2	19.6	29.4
88	17.8	14.2	21.2





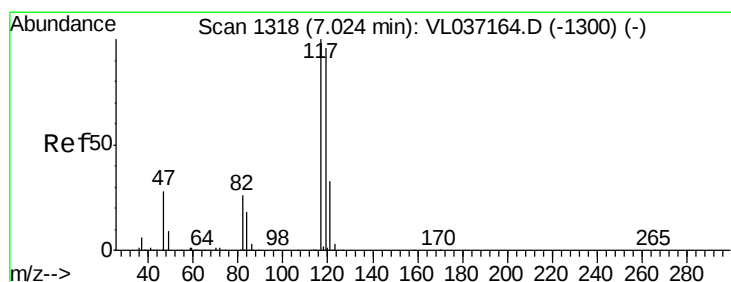
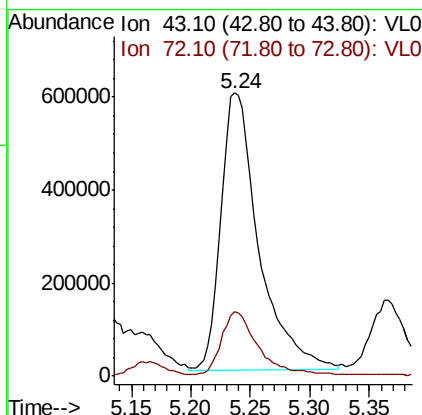
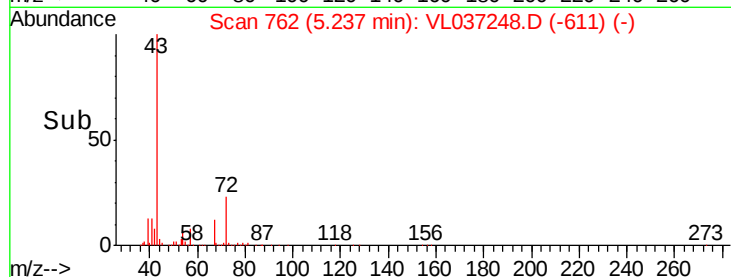
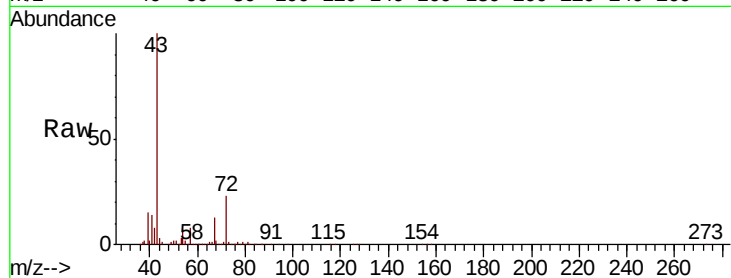
#34
2-Butanone
Concen: 7.749 ppbv
RT: 5.24 min Scan# 762
Delta R.T. -0.02 min
Lab File: VL037248.D
Acq: 29 Jun 2021 14:22

Instrument :
MSVOA_L
ClientSampleId :
SV-2

Tot Ion: 43 Resp: 1320454
Ion Ratio Lower Upper
43 100
72 23.2 18.9 28.3

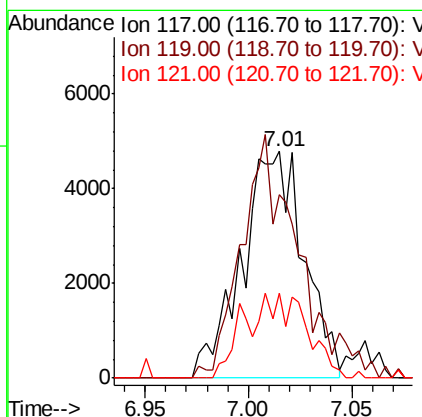
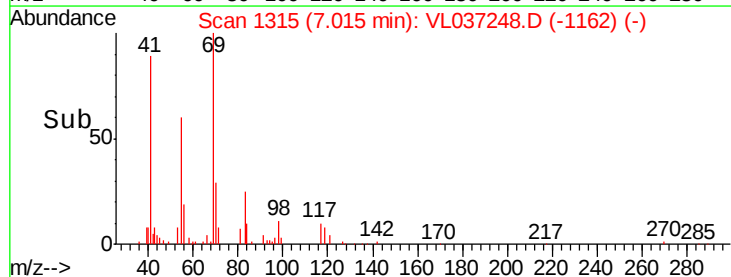
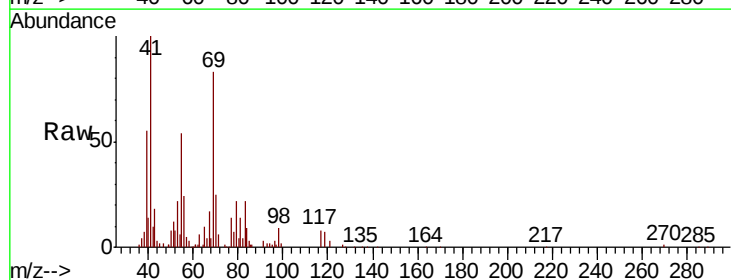
Manual Integrations
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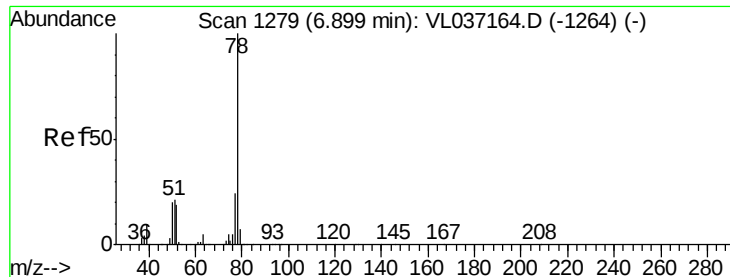
MMDadoda
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#35
Carbon Tetrachloride
Concen: 0.034 ppbv m
RT: 7.01 min Scan# 1315
Delta R.T. -0.01 min
Lab File: VL037248.D
Acq: 29 Jun 2021 14:22

Tgt Ion: 117 Resp: 9991
Ion Ratio Lower Upper
117 100
119 80.9 76.6 114.8
121 37.4 26.4 39.6





#36

Benzene

Concen: 5.457 ppbv

RT: 6.88 min Scan# 1274

Delta R.T. -0.02 min

Lab File: VL037248.D

Acq: 29 Jun 2021 14:22

Instrument :

MSVOA_L

ClientSampleId :

SV-2

Tot Ion: 78 Resp: 1933367

Ion Ratio Lower Upper

78 100

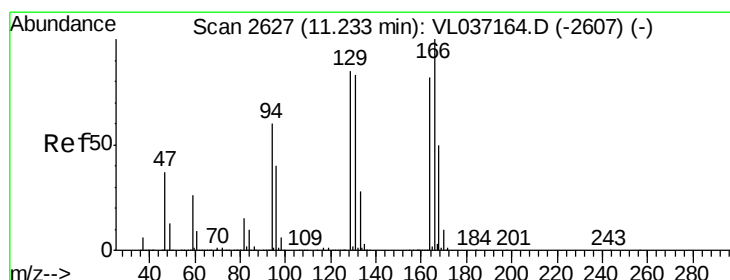
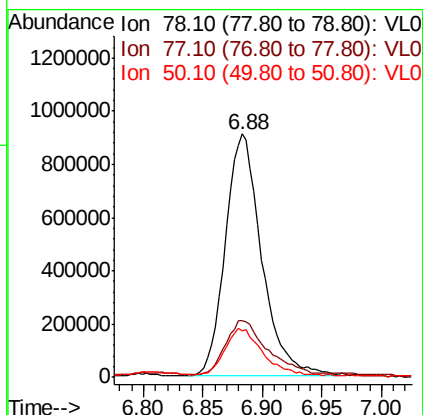
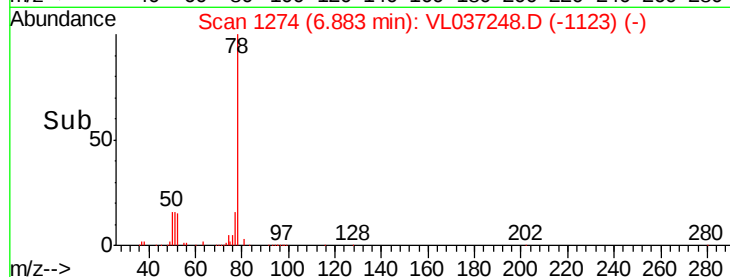
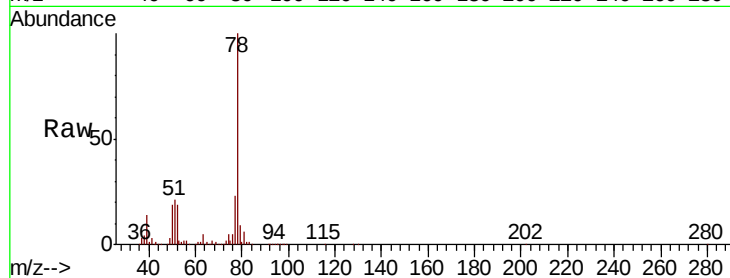
77 22.5 19.0 28.6

50 18.5 15.7 23.5

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#52

Tetrachloroethene

Concen: 0.053 ppbv m

RT: 11.21 min Scan# 2619

Delta R.T. -0.03 min

Lab File: VL037248.D

Acq: 29 Jun 2021 14:22

Tgt Ion: 164 Resp: 8805

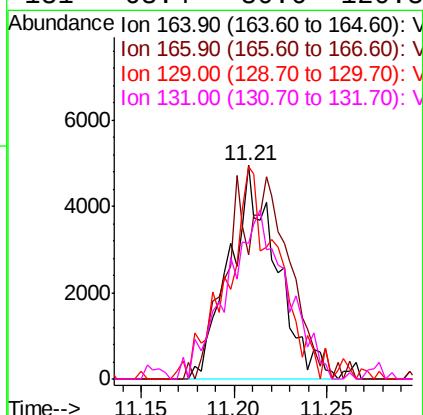
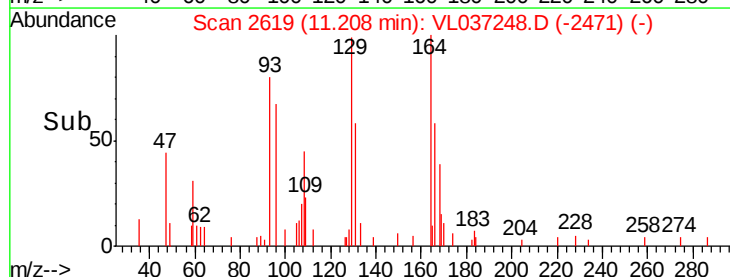
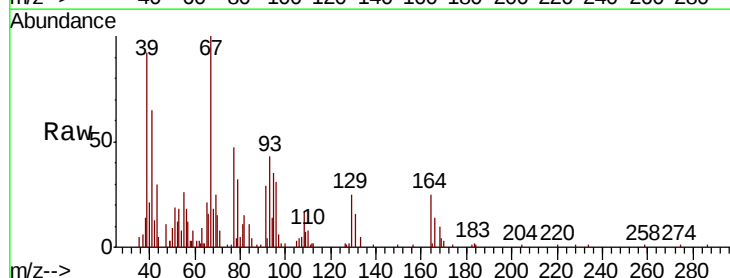
Ion Ratio Lower Upper

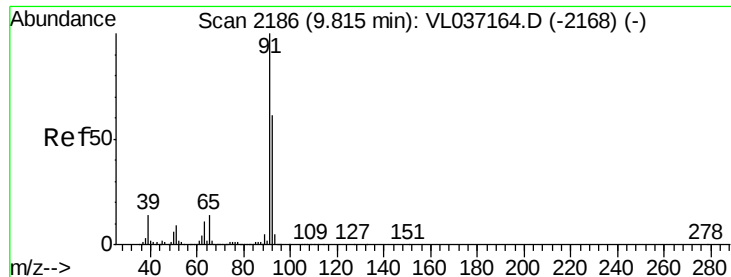
164 100

166 57.9 97.6 146.4#

129 99.4 82.9 124.3

131 63.4 80.6 120.8#





#53

Toluene

Concen: 3.969 ppbv

RT: 9.80 min Scan# 2180

Delta R.T. -0.02 min

Lab File: VL037248.D

Acq: 29 Jun 2021 14:22

Instrument :

MSVOA_L

ClientSampleId :

SV-2

Tot Ion: 91 Resp: 1679607

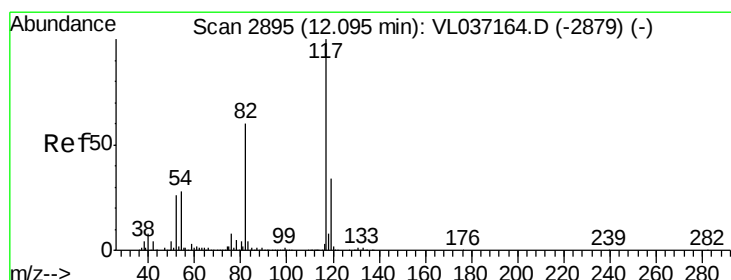
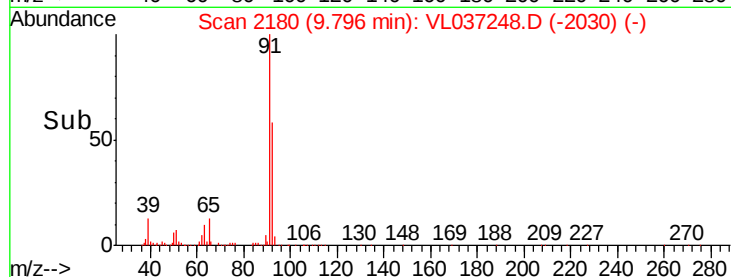
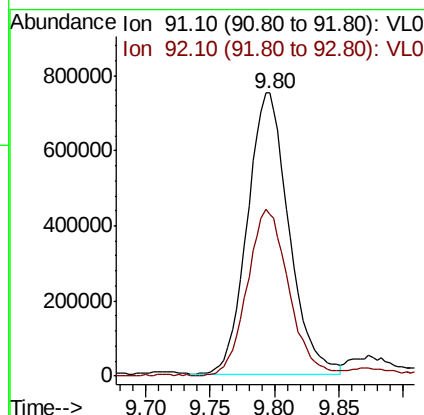
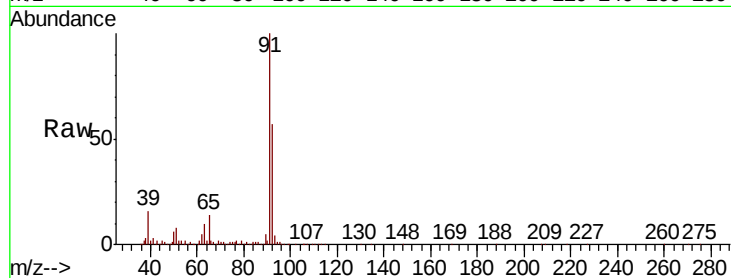
Ion Ratio Lower Upper

91 100

92 58.8 48.3 72.5

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2889

Delta R.T. -0.02 min

Lab File: VL037248.D

Acq: 29 Jun 2021 14:22

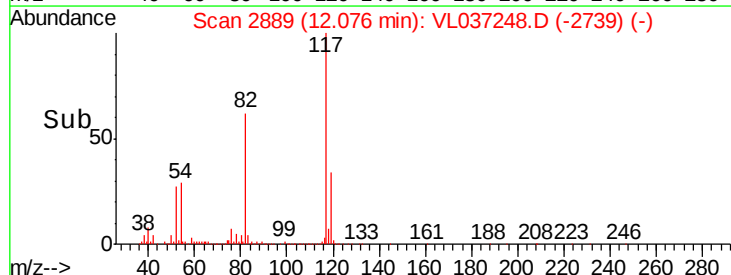
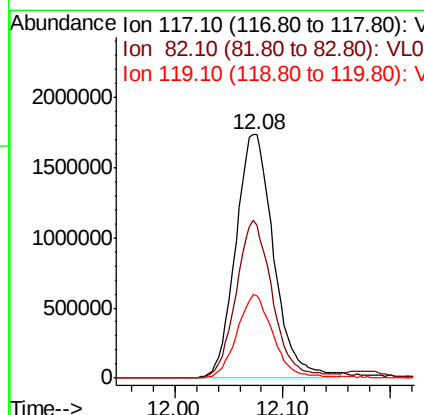
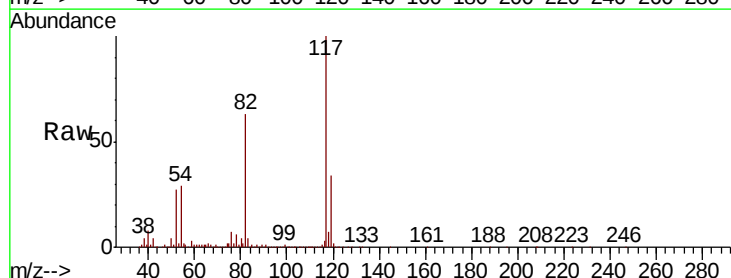
Tgt Ion: 117 Resp: 4262571

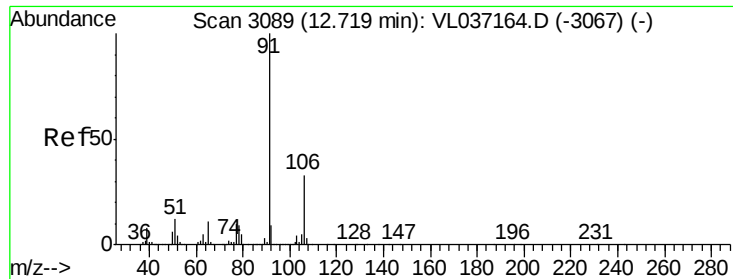
Ion Ratio Lower Upper

117 100

82 62.1 51.7 77.5

119 33.2 47.6 71.4#





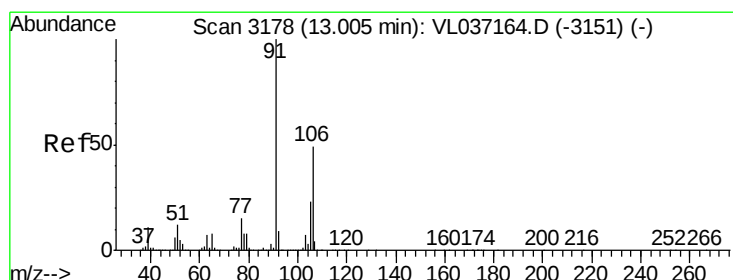
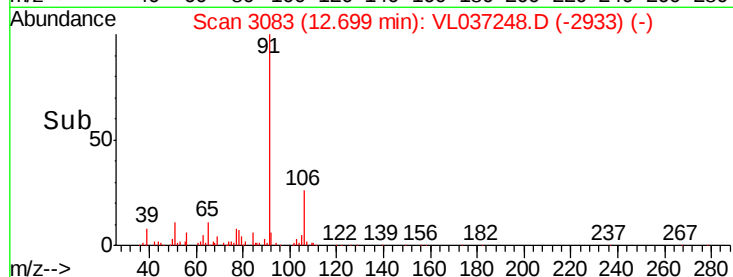
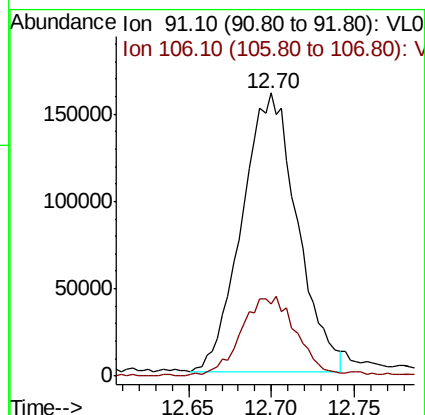
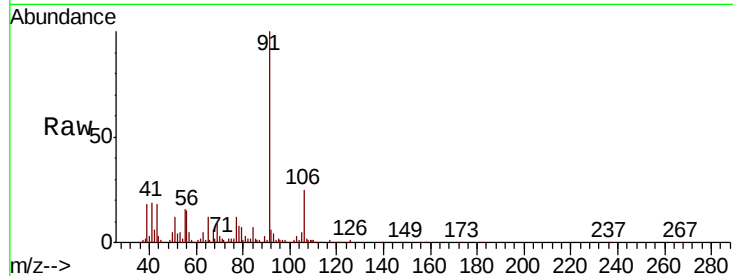
#58
Ethyl Benzene
Concen: 0.633 ppbv
RT: 12.70 min Scan# 3083
Delta R.T. -0.02 min
Lab File: VL037248.D
Acq: 29 Jun 2021 14:22

Instrument :
MSVOA_L
ClientSampled :
SV-2

Tot Ion: 91 Resp: 371315
Ion Ratio Lower Upper
91 100
106 25.3 26.3 39.5#

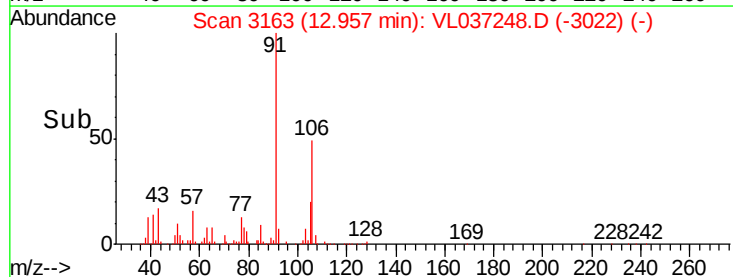
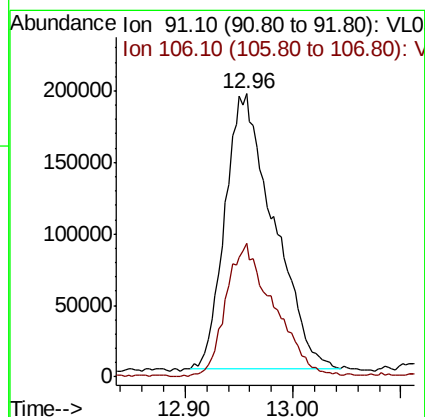
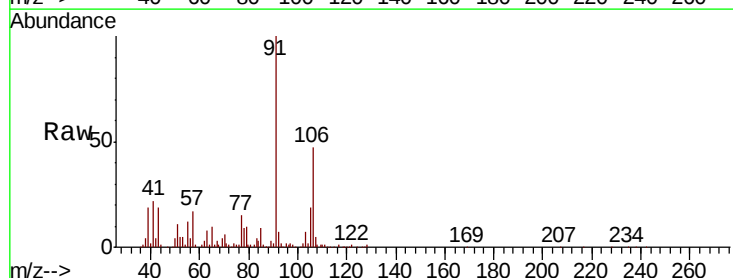
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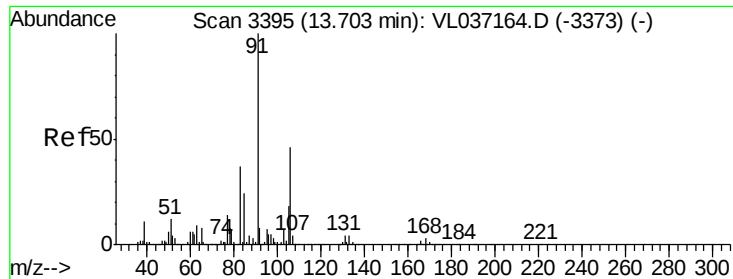
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#59
m/p-Xylene
Concen: 1.207 ppbv
RT: 12.96 min Scan# 3163
Delta R.T. -0.05 min
Lab File: VL037248.D
Acq: 29 Jun 2021 14:22

Tgt Ion: 91 Resp: 600074
Ion Ratio Lower Upper
91 100
106 47.3 37.0 55.4





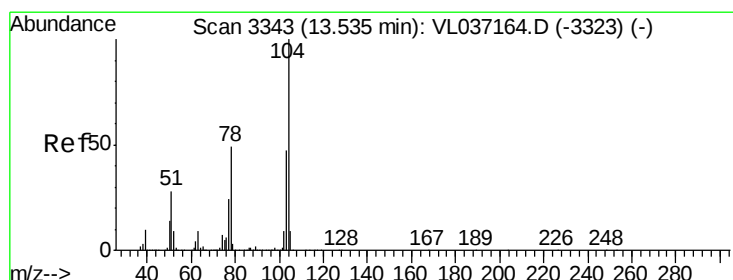
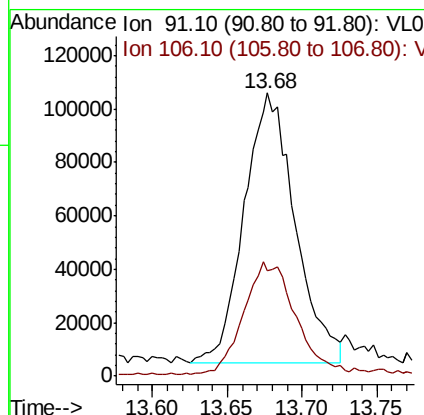
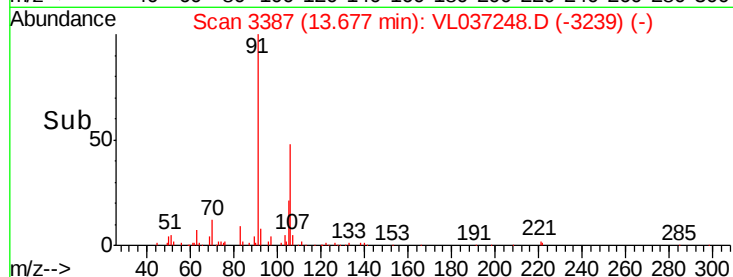
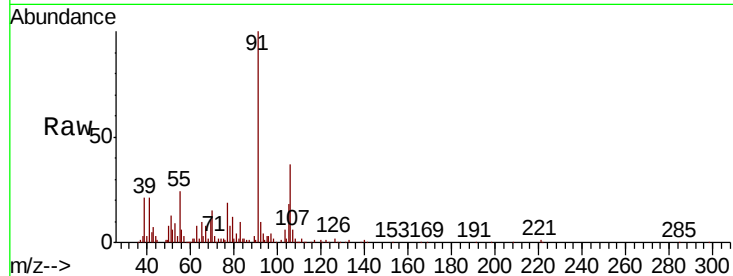
#60
o-Xylene
Concen: 0.507 ppbv
RT: 13.68 min Scan# 3387
Delta R.T. -0.03 min
Lab File: VL037248.D
Acq: 29 Jun 2021 14:22

Instrument :
MSVOA_L
ClientSampled :
SV-2

Tot Ion: 91 Resp: 239873
Ion Ratio Lower Upper
91 100
106 43.7 23.0 69.0

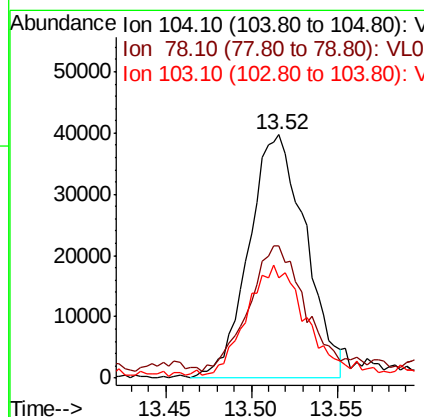
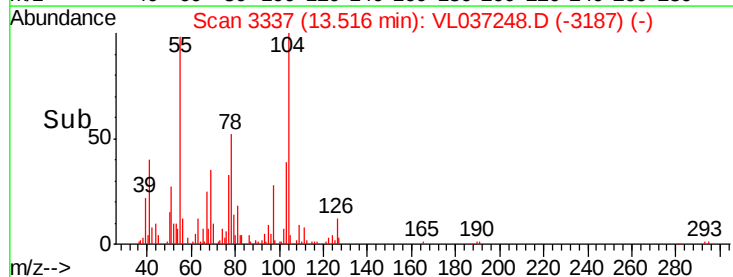
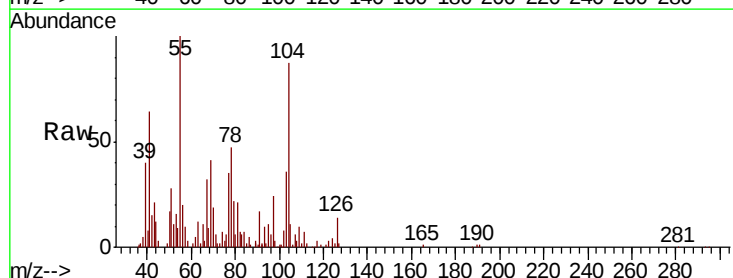
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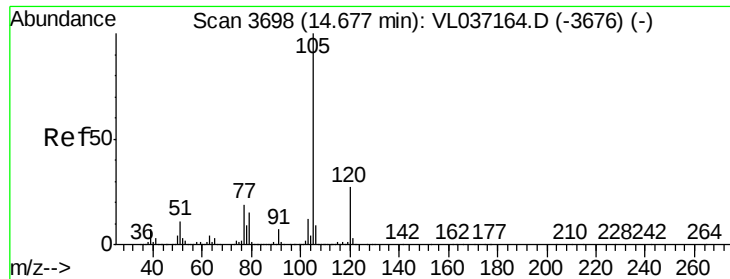
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#61
Styrene
Concen: 0.372 ppbv
RT: 13.52 min Scan# 3337
Delta R.T. -0.02 min
Lab File: VL037248.D
Acq: 29 Jun 2021 14:22

Tgt Ion: 104 Resp: 90938
Ion Ratio Lower Upper
104 100
78 57.4 39.7 59.5
103 51.7 37.6 56.4





#62

Isopropylbenzene

Concen: 0.166 ppbv

RT: 14.65 min Scan# 3691

Delta R.T. -0.02 min

Lab File: VL037248.D

Acq: 29 Jun 2021 14:22

Instrument :

MSVOA_L

ClientSampled :

SV-2

Tot Ion:105 Resp: 111903

Ion Ratio Lower Upper

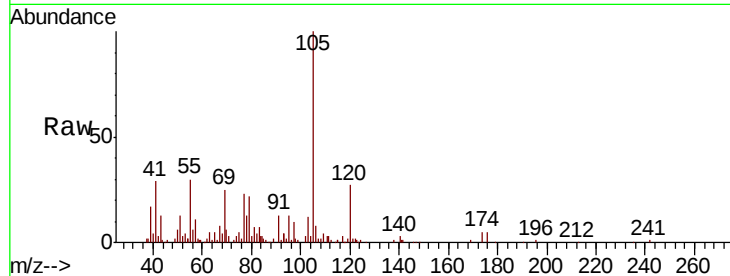
105 100

120 29.6 21.6 32.4

Manual Integrations
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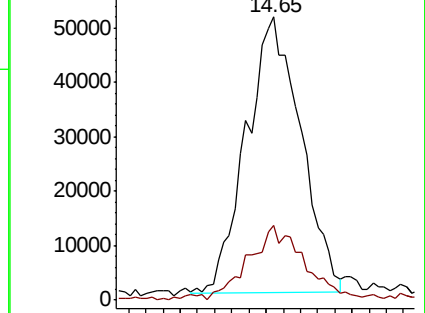
MMDadoda

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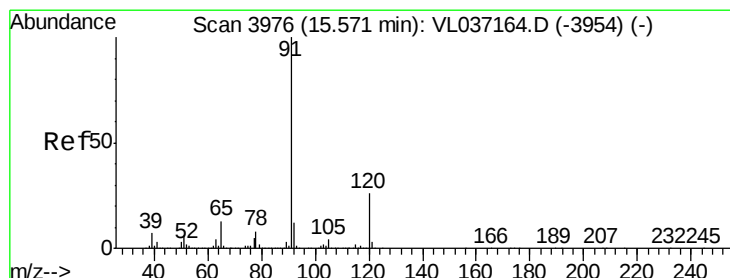
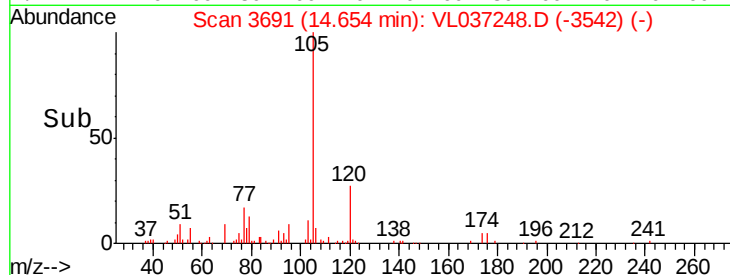


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



Time-->



#64

n-propylbenzene

Concen: 0.299 ppbv m

RT: 15.55 min Scan# 3968

Delta R.T. -0.03 min

Lab File: VL037248.D

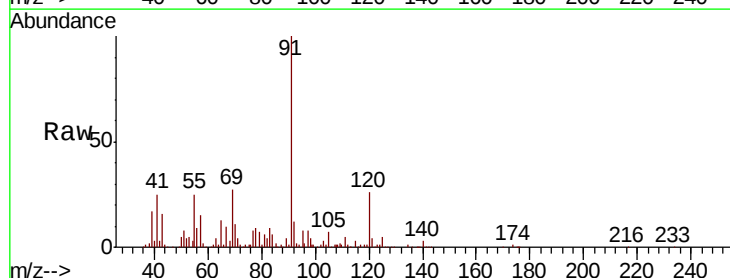
Acq: 29 Jun 2021 14:22

Tgt Ion:120 Resp: 50356

Ion Ratio Lower Upper

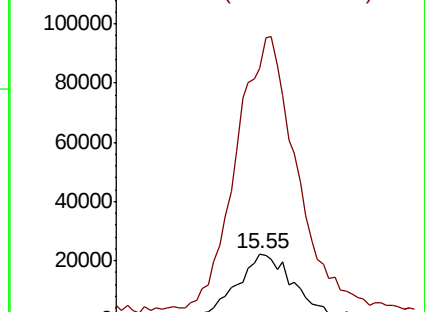
120 100

91 447.2 343.3 514.9

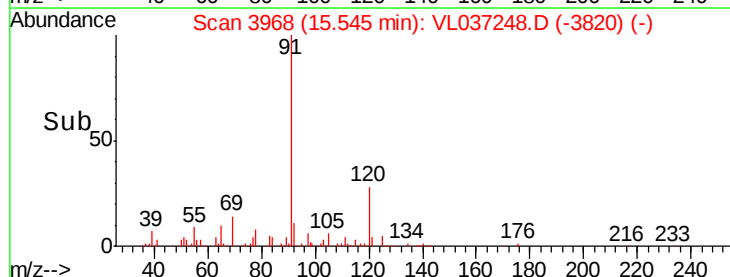


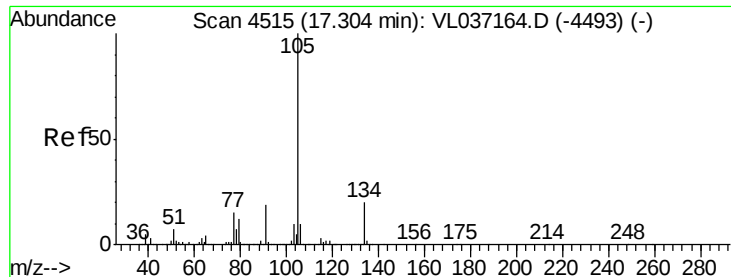
Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



Time-->





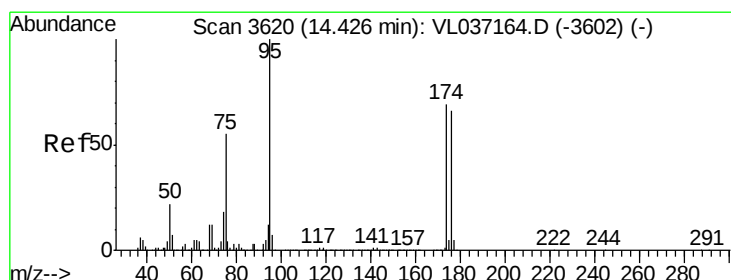
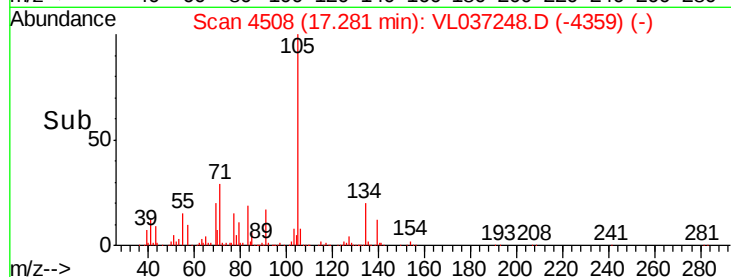
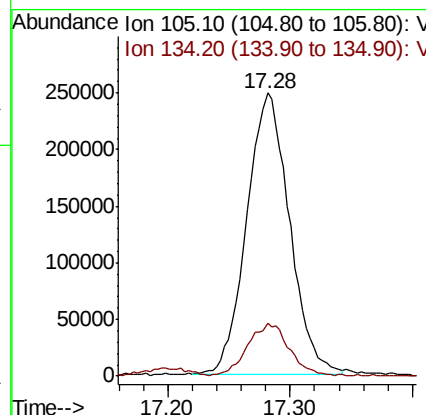
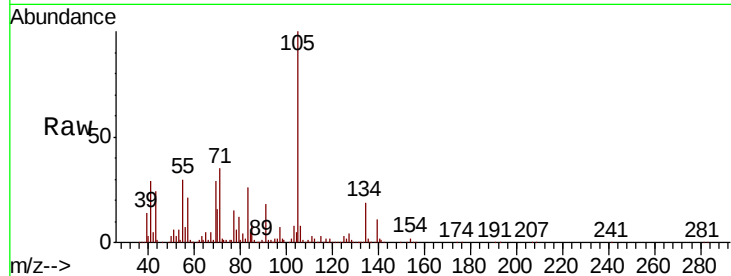
#67
 sec-Butylbenzene
 Concen: 0.754 ppbv
 RT: 17.28 min Scan# 4508
 Delta R.T. -0.02 min
 Lab File: VL037248.D
 Acq: 29 Jun 2021 14:22

Instrument :
 MSVOA_L
 ClientSampled :
 SV-2

Tot Ion	Ratio	Lower	Upper
105	100		
134	17.5	15.8	23.6

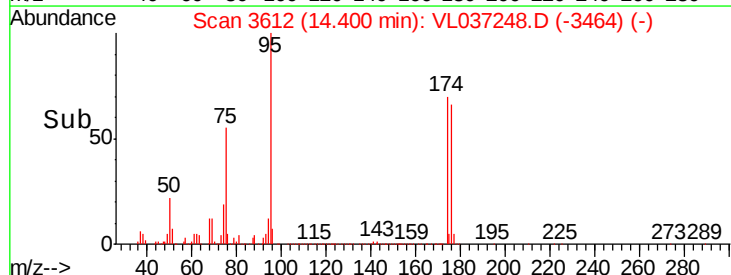
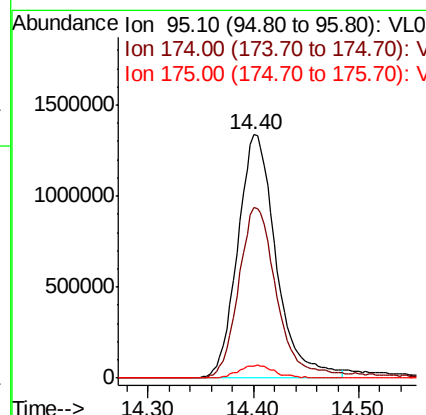
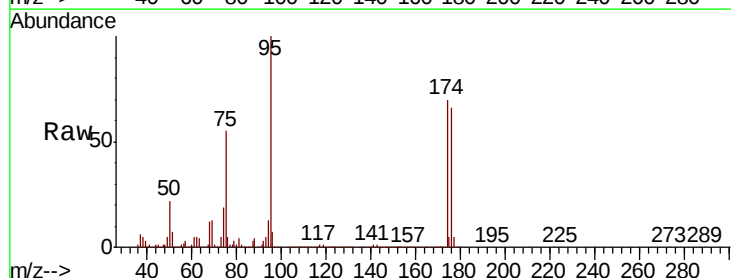
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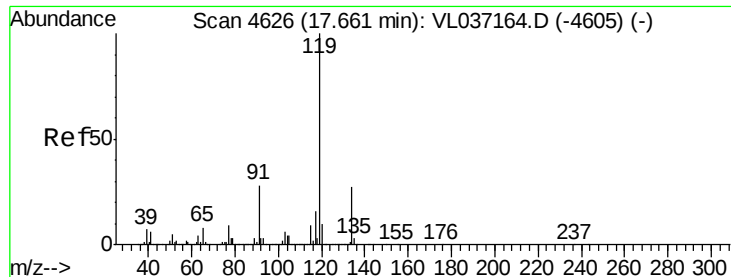
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.461 ppbv
 RT: 14.40 min Scan# 3612
 Delta R.T. -0.03 min
 Lab File: VL037248.D
 Acq: 29 Jun 2021 14:22

Tgt Ion	Ratio	Lower	Upper
95	100		
174	72.6	57.0	85.4
175	5.4	4.4	6.6





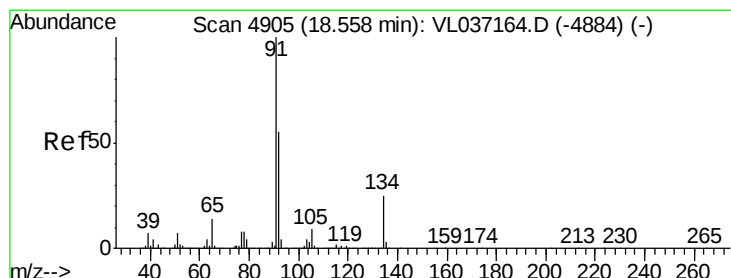
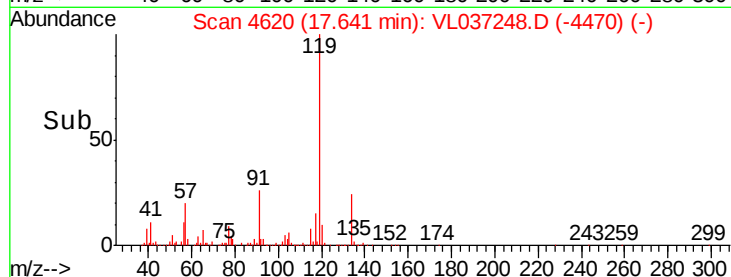
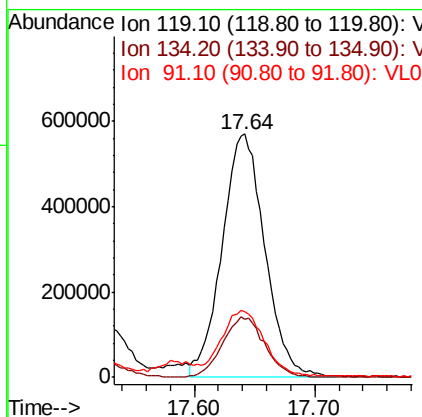
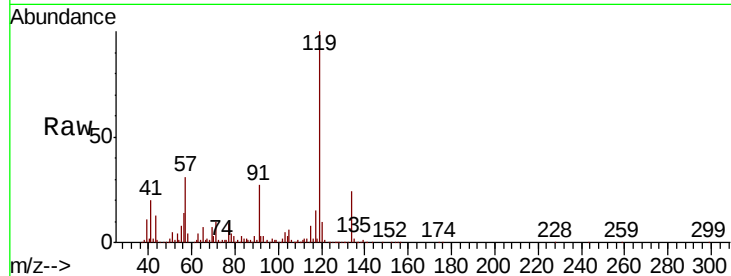
#69
 p-Isopropyltoluene
 Concen: 2.057 ppbv
 RT: 17.64 min Scan# 4620
 Delta R.T. -0.02 min
 Lab File: VL037248.D
 Acq: 29 Jun 2021 14:22

Instrument :
 MSVOA_L
 ClientSampled :
 SV-2

Tot Ion	Ratio	Lower	Upper
119	100		
134	6.1	20.9	31.3#
91	6.5	22.6	34.0#

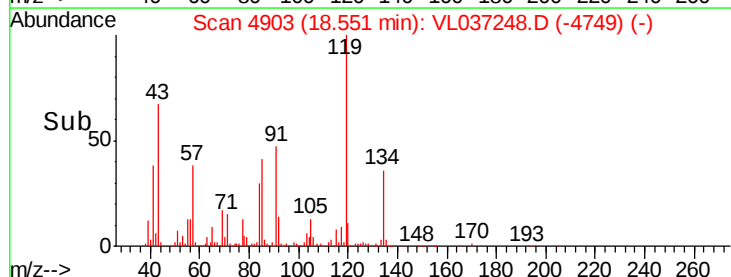
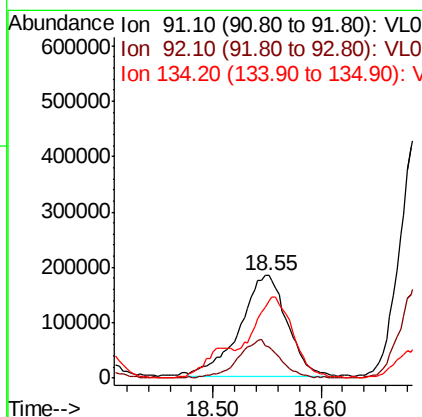
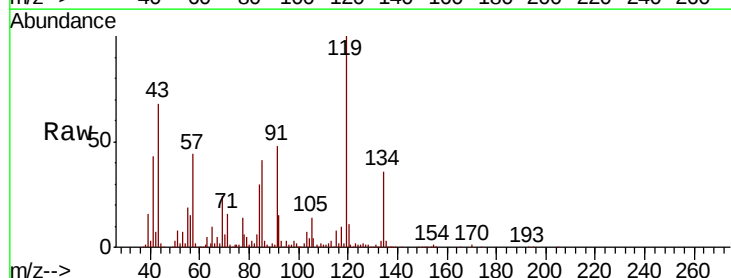
Manual Integrations
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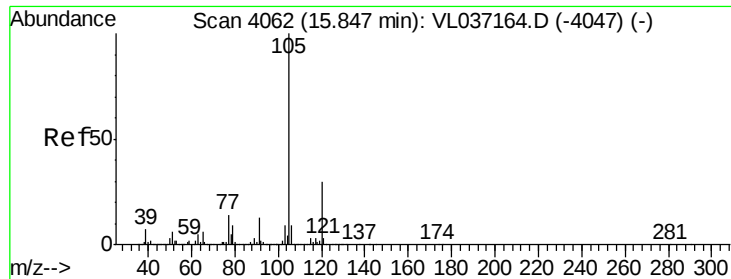
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#70
 n-Butylbenzene
 Concen: 0.890 ppbv
 RT: 18.55 min Scan# 4903
 Delta R.T. -0.01 min
 Lab File: VL037248.D
 Acq: 29 Jun 2021 14:22

Tgt Ion	Ratio	Lower	Upper
91	100		
92	32.6	44.0	66.0#
134	87.3	20.2	30.4#





#72

4-Ethyltoluene

Concen: 0.392 ppbv

RT: 15.83 min Scan# 4056

Delta R.T. -0.02 min

Lab File: VL037248.D

Acq: 29 Jun 2021 14:22

Instrument :

MSVOA_L

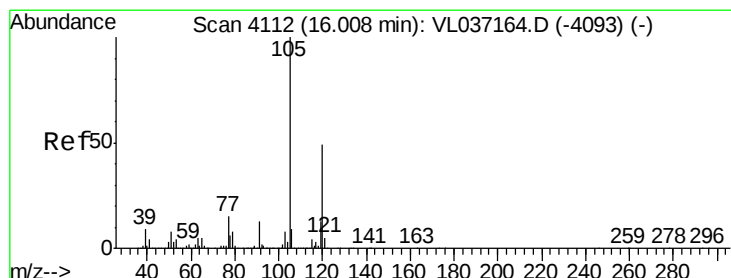
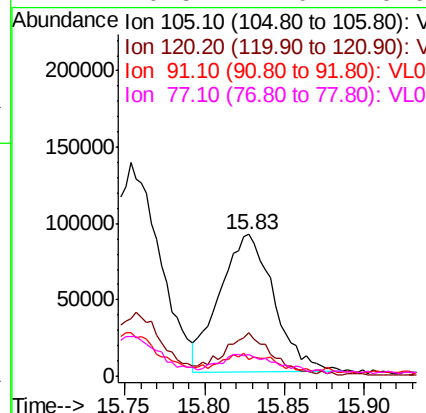
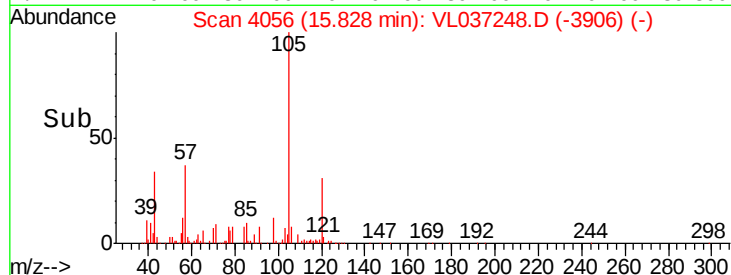
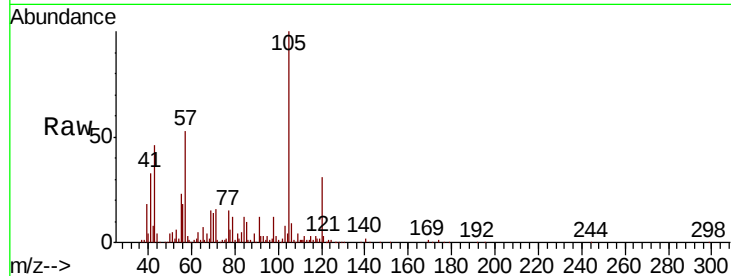
ClientSampleId :

SV-2

Tot Ion	Ratio	Lower	Upper
105	100		
120	28.4	24.7	37.1
91	17.1	10.2	15.4
77	16.5	11.0	16.6

Manual Integrations
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#73

1,3,5-Trimethylbenzene

Concen: 0.889 ppbv

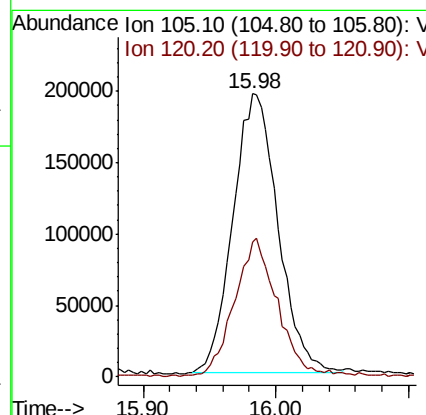
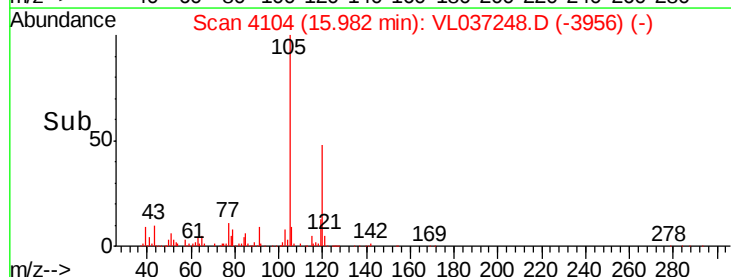
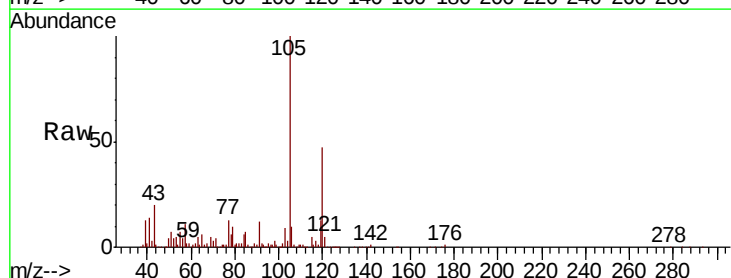
RT: 15.98 min Scan# 4104

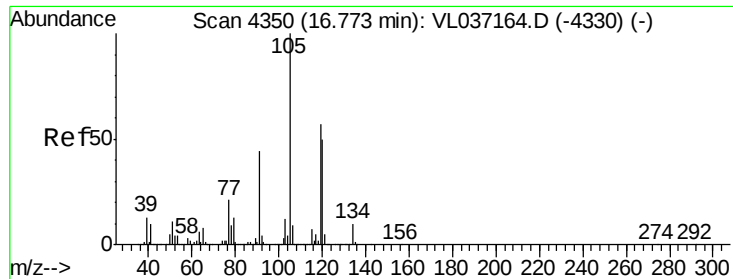
Delta R.T. -0.03 min

Lab File: VL037248.D

Acq: 29 Jun 2021 14:22

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.3	39.4	59.2





#74

1,2,4-Trimethylbenzene

Concen: 2.027 ppbv

RT: 16.75 min Scan# 4343

Delta R.T. -0.02 min

Lab File: VL037248.D

Acq: 29 Jun 2021 14:22

Instrument :

MSVOA_L

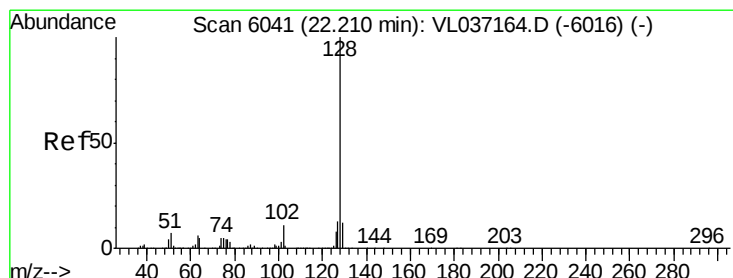
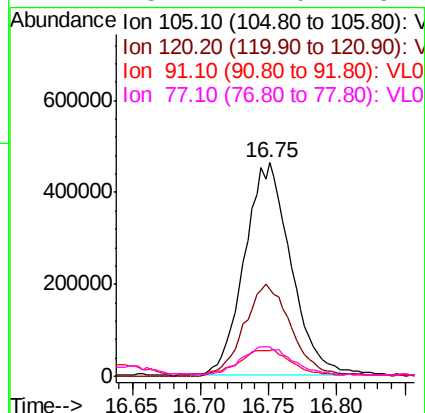
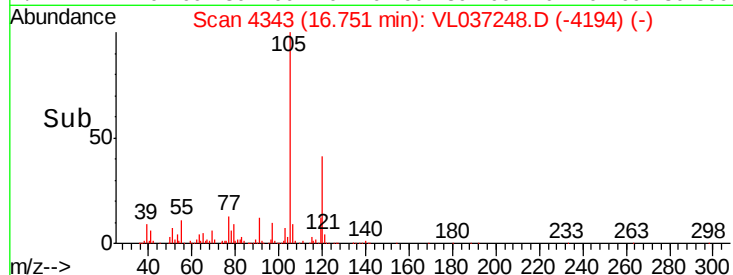
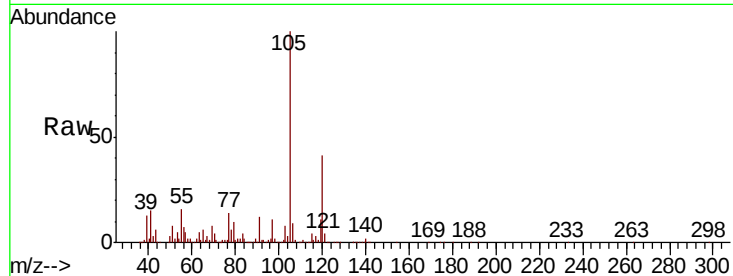
ClientSampleId :

SV-2

Tot Ion	Ratio	Lower	Upper
105	100		
120	40.6	39.8	59.8
91	11.4	37.0	55.4#
77	13.1	17.0	25.4#

Manual Integrations
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#79

Naphthalene

Concen: 2.266 ppbv

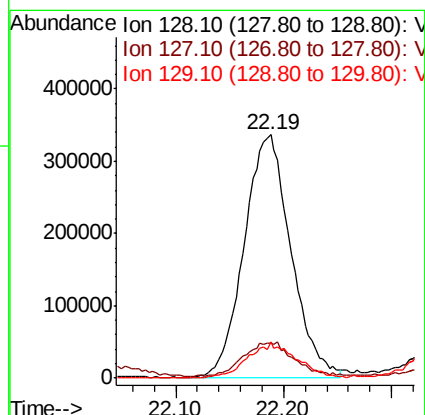
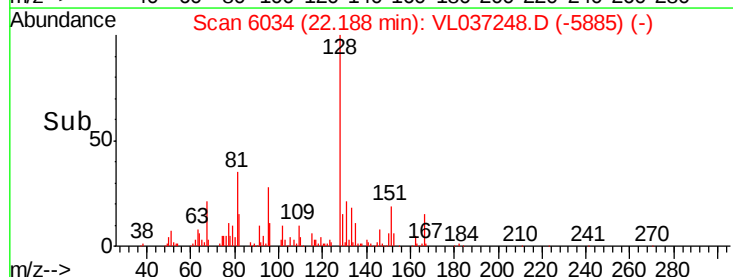
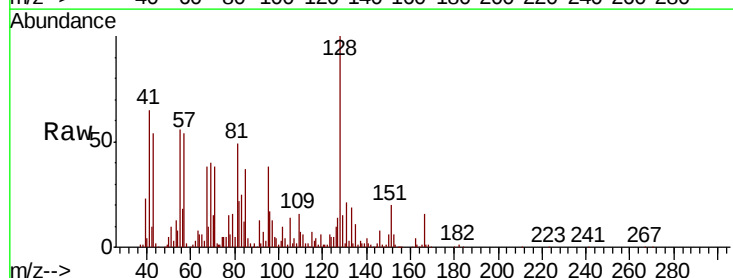
RT: 22.19 min Scan# 6034

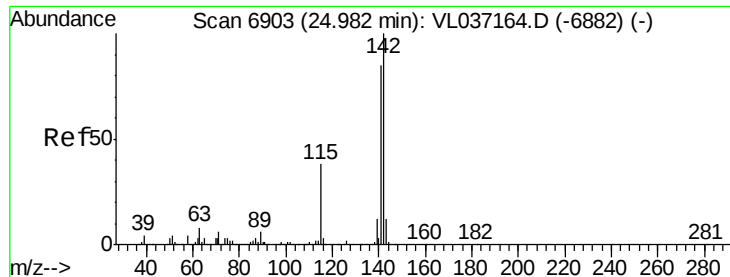
Delta R.T. -0.02 min

Lab File: VL037248.D

Acq: 29 Jun 2021 14:22

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.7	16.1
129	15.0	9.3	13.9#





#80
 Naphthalene, 2-methyl-
 Concen: 0.615 ppbv m
 RT: 24.96 min Scan# 6897
 Delta R.T. -0.02 min
 Lab File: VL037248.D
 Acq: 29 Jun 2021 14:22

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-2

Tot Ion	Ratio	Lower	Upper
142	100		
141	17.3	63.7	95.5#
115	8.2	30.6	45.8#

Manual Integrations
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