

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL091721\
 Data File : VL037642.D
 Acq On : 17 Sep 2021 15:23
 Operator : SY/AP
 Sample : M3801-01 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

MMDadoda
 9/20/2021 5:28:33 PM

Quant Time: Sep 18 09:13:22 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 1
 QLast Update : Thu Sep 16 13:42:46 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1414520	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4142567	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3637482	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2653085	10.09	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.01	41	944019m	10.030	ppbv	
10) Heptane	8.10	43	261072	1.189	ppbv	100
11) Trichlorofluoromethane	3.94	101	131890m	0.642	ppbv	
13) Ethanol	3.60	45	134191m	14.577	ppbv	
15) Acetone	3.83	43	2521488m	17.157	ppbv	
19) Isopropyl Alcohol	3.95	45	344445m	4.307	ppbv	
20) Methylene Chloride	4.33	84	193036	2.751	ppbv	94
26) Hexane	5.67	57	1105584	6.539	ppbv #	44
27) Carbon Disulfide	4.53	76	81979m	0.530	ppbv	
29) Chloroform	5.74	83	69687	0.282	ppbv	89
30) Cyclohexane	7.11	84	22569m	0.156	ppbv	
32) 1,1,1-Trichloroethane	6.49	97	13662m	0.059	ppbv	
34) 2-Butanone	5.24	43	302572	1.797	ppbv #	89
36) Benzene	6.87	78	156909m	0.454	ppbv	
51) 2-Hexanone	10.12	43	140193m	1.487	ppbv	
52) Tetrachloroethene	11.20	164	252072	1.901	ppbv	97
53) Toluene	9.79	91	275933	0.719	ppbv	96
58) Ethyl Benzene	12.69	91	127581	0.264	ppbv	99
59) m/p-Xylene	12.95	91	454885m	1.081	ppbv	
60) o-Xylene	13.67	91	250660m	0.626	ppbv	
64) n-propylbenzene	15.54	120	24637m	0.171	ppbv	
72) 4-Ethyltoluene	15.82	105	159400m	0.347	ppbv	
73) 1,3,5-Trimethylbenzene	15.98	105	160814	0.375	ppbv	97
74) 1,2,4-Trimethylbenzene	16.74	105	658259	1.458	ppbv #	74
79) Naphthalene	22.17	128	41767m	0.151	ppbv	

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

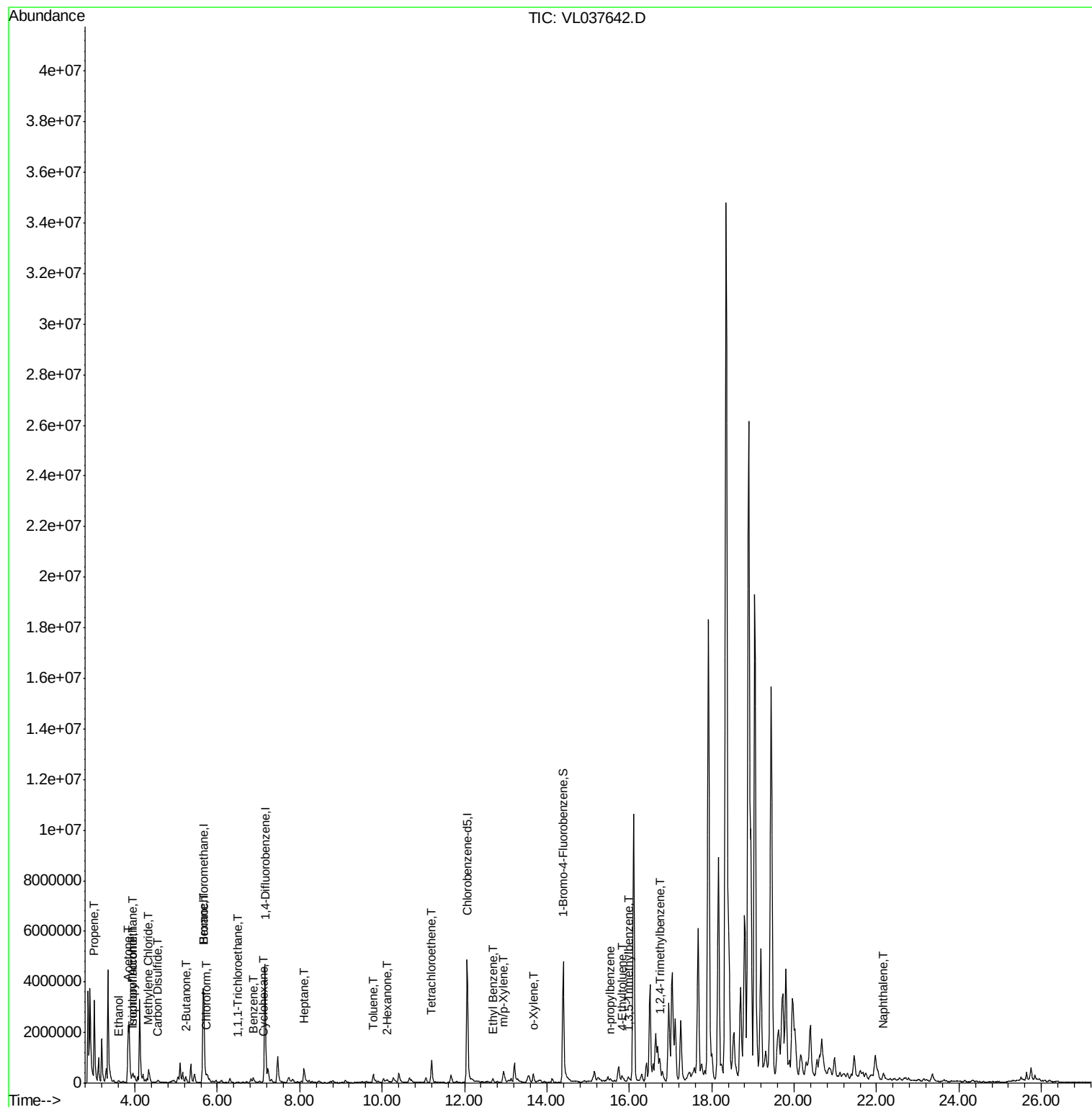
Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL091721\
Data File : VL037642.D
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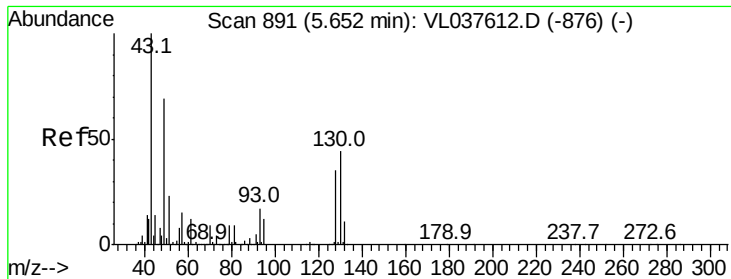
Instrument :
MSVOA_L
ClientSampleId :
SV1

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Quant Time: Sep 18 09:13:22 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep
QLast Update : Thu Sep 16 13:42:46 2021
Response via : Initial Calibration





#1

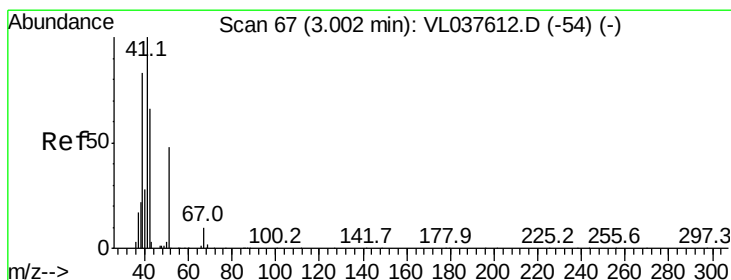
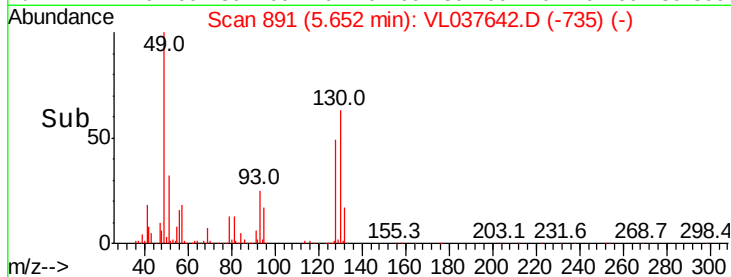
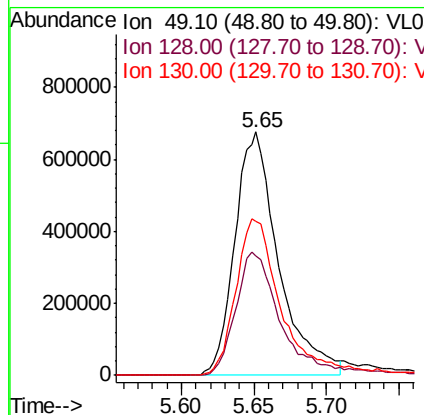
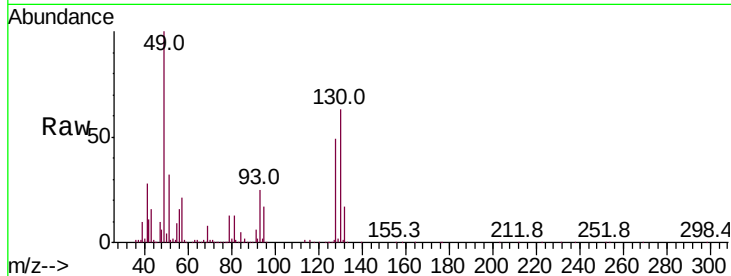
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.65 min Scan# 891
 Delta R.T. 0.00 min
 Lab File: VL037642.D
 Acq: 17 Sep 2021 15:23

Instrument :
 MSVOA_L
 ClientSampled :
 SV1

Tot Ion: 49 Resp: 1414520
 Ion Ratio Lower Upper
 49 100
 128 54.5 27.9 83.6
 130 70.0 33.9 101.7

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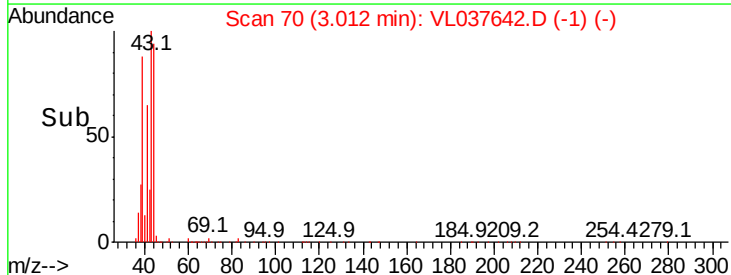
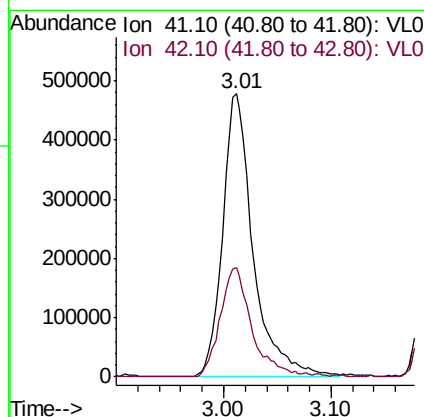
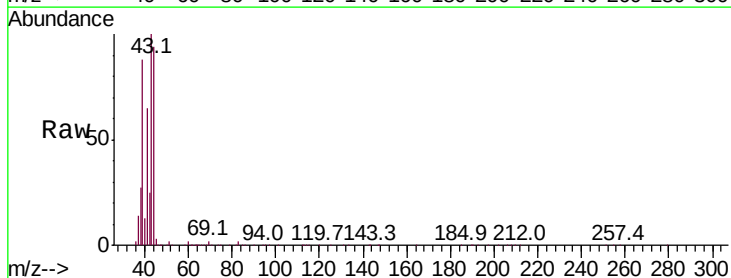
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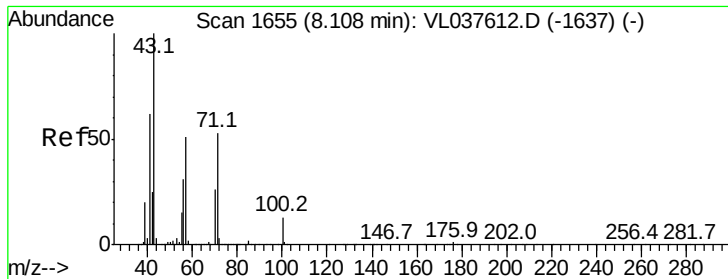


#9

Propene
 Concen: 10.030 ppbv m
 RT: 3.01 min Scan# 70
 Delta R.T. 0.01 min
 Lab File: VL037642.D
 Acq: 17 Sep 2021 15:23

Tgt Ion: 41 Resp: 944019
 Ion Ratio Lower Upper
 41 100
 42 44.8 57.2 85.8#





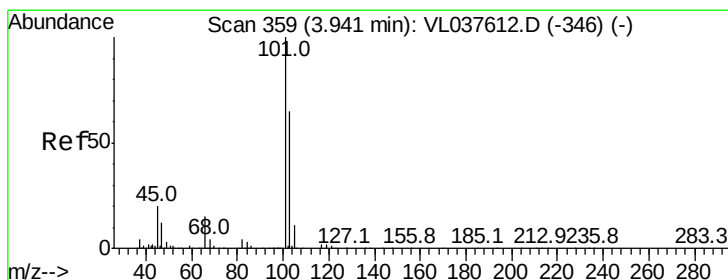
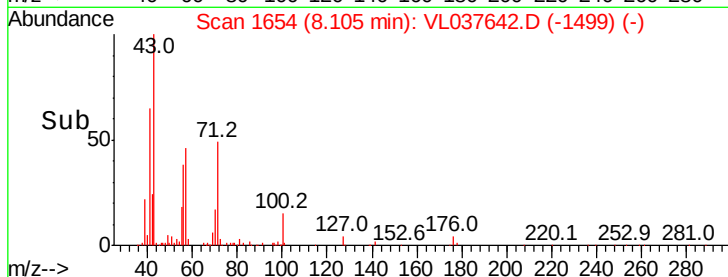
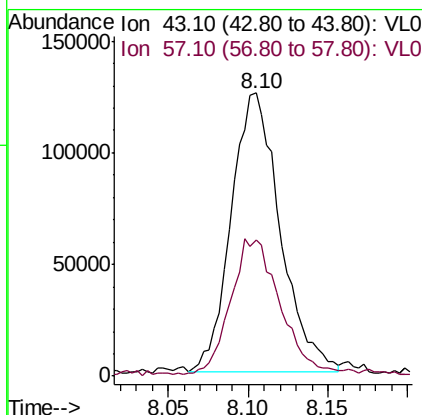
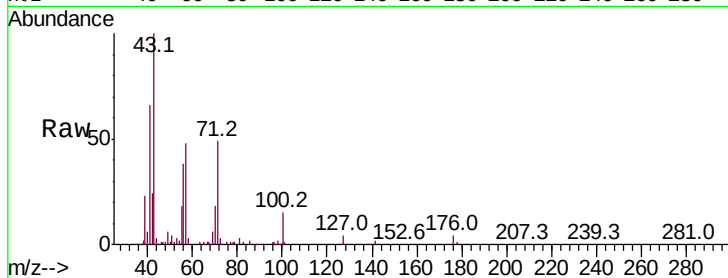
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Heptane
Concen: 1.189 ppbv
RT: 8.10 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VL037642.D
Acq: 17 Sep 2021 15:23

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tot Ion: 43 Resp: 261072
Ion Ratio Lower Upper
43 100
57 50.3 40.1 60.1

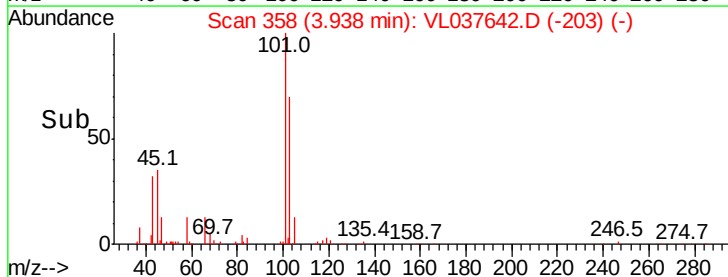
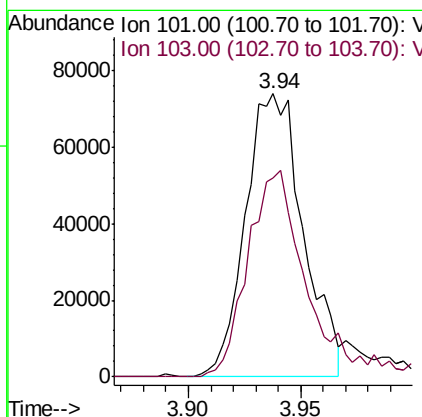
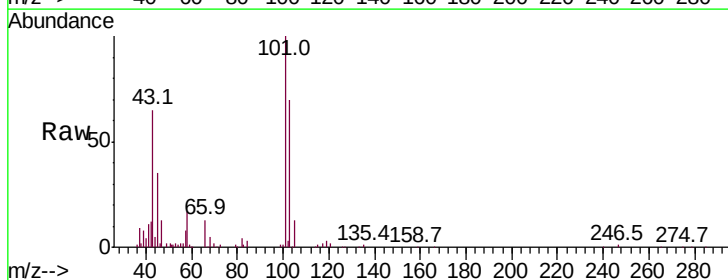
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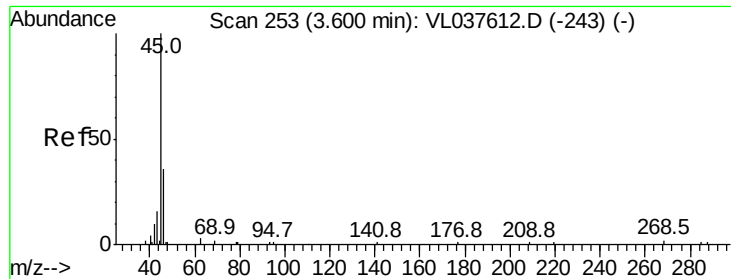
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#11
Trichlorofluoromethane
Concen: 0.642 ppbv m
RT: 3.94 min Scan# 358
Delta R.T. -0.00 min
Lab File: VL037642.D
Acq: 17 Sep 2021 15:23

Tgt Ion: 101 Resp: 131890
Ion Ratio Lower Upper
101 100
103 70.4 51.9 77.9





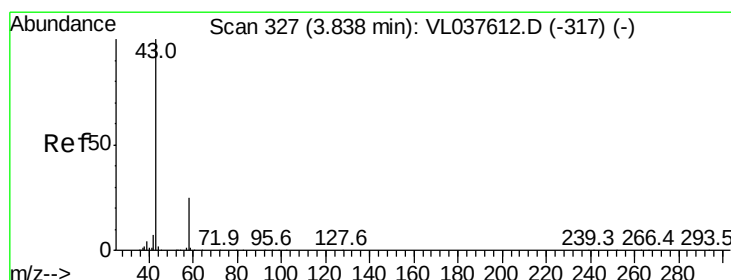
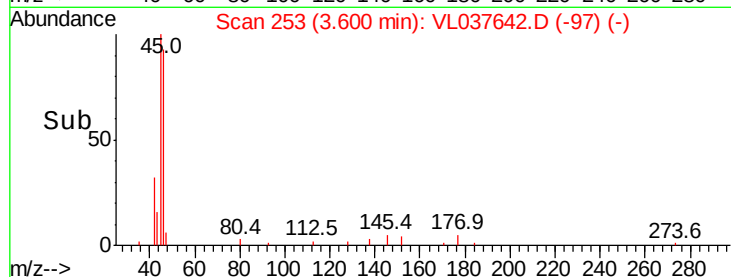
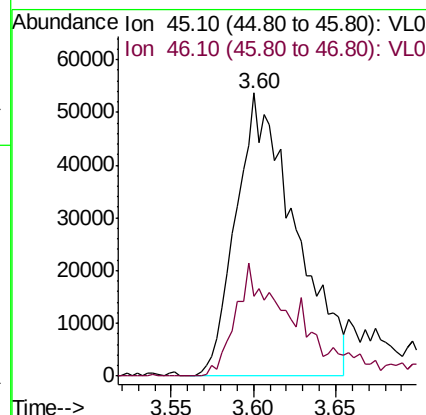
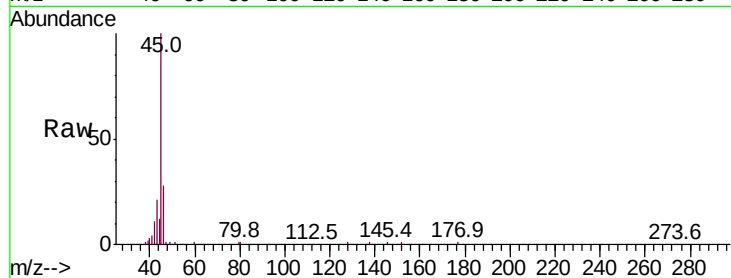
#13
Ethanol
Concen: 14.577 ppbv m
RT: 3.60 min Scan# 253
Delta R.T. 0.00 min
Lab File: VL037642.D
Acq: 17 Sep 2021 15:23

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tot Ion	45	46	Ratio	100	39.5	Resp	134191	Lower	Upper
Ion	45	46	Ratio	100	39.5	Resp	134191	Lower	Upper
								17.2	68.8

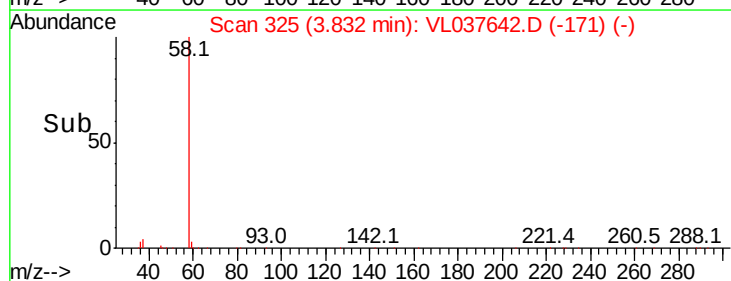
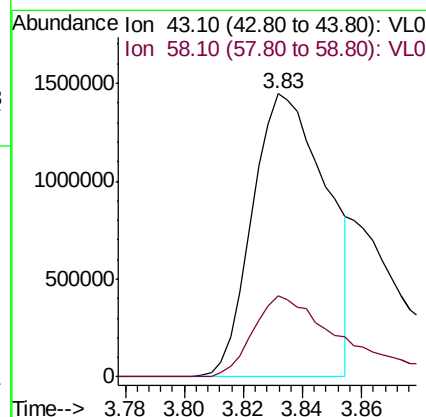
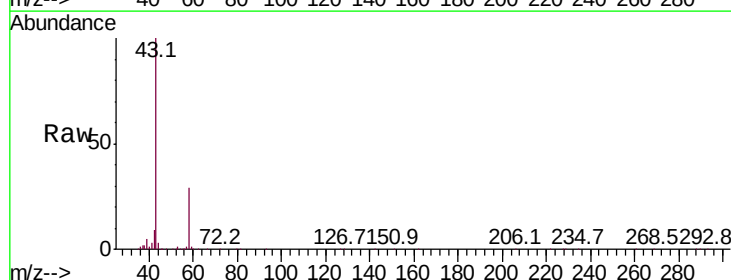
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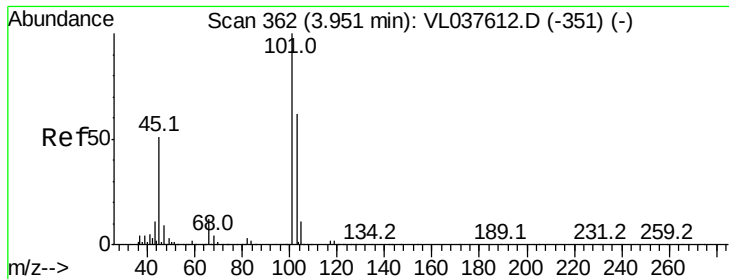
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#15
Acetone
Concen: 17.157 ppbv m
RT: 3.83 min Scan# 325
Delta R.T. -0.01 min
Lab File: VL037642.D
Acq: 17 Sep 2021 15:23

Tgt Ion	43	58	Ratio	100	38.6	Resp	2521488	Lower	Upper
Ion	43	58	Ratio	100	38.6	Resp	2521488	Lower	Upper
								24.9	37.3#





#19

Isopropyl Alcohol

Concen: 4.307 ppbv m

RT: 3.95 min Scan# 363

Delta R.T. 0.00 min

Lab File: VL037642.D

Acq: 17 Sep 2021 15:23

Instrument :

MSVOA_L

ClientSampled :

SV1

Tot Ion: 45 Resp: 344445

Ion Ratio Lower Upper

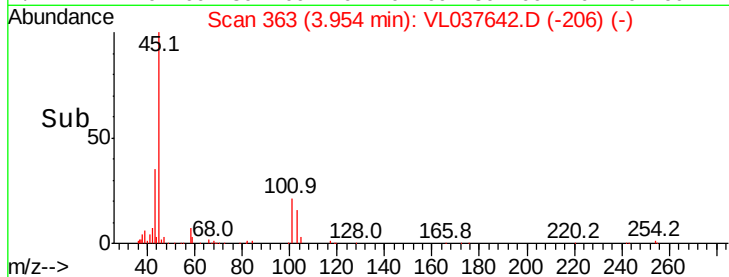
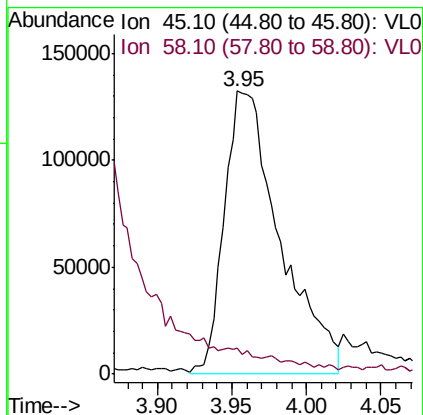
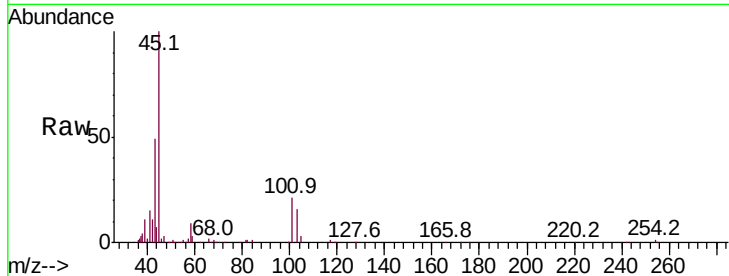
45 100

58 0.0 2.9 4.3#

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#20

Methylene Chloride

Concen: 2.751 ppbv

RT: 4.33 min Scan# 479

Delta R.T. -0.00 min

Lab File: VL037642.D

Acq: 17 Sep 2021 15:23

Tgt Ion: 84 Resp: 193036

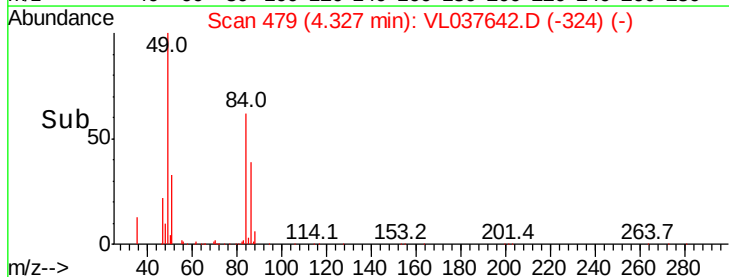
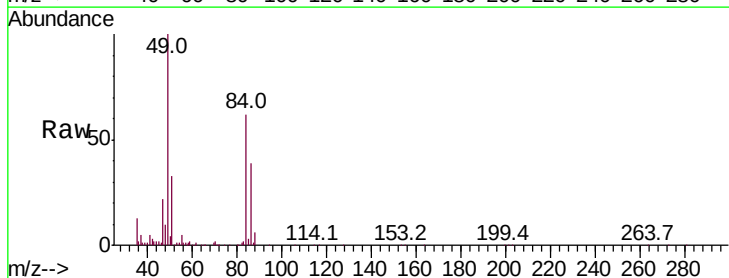
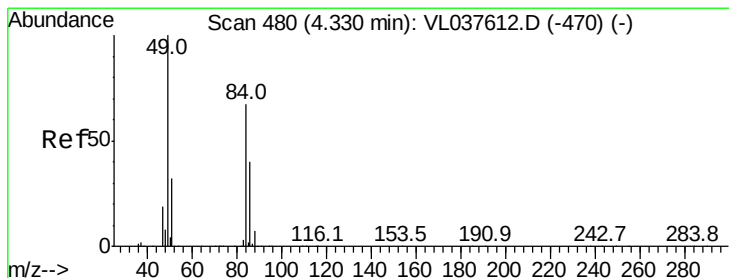
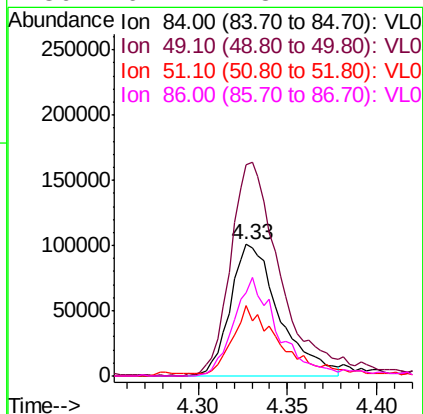
Ion Ratio Lower Upper

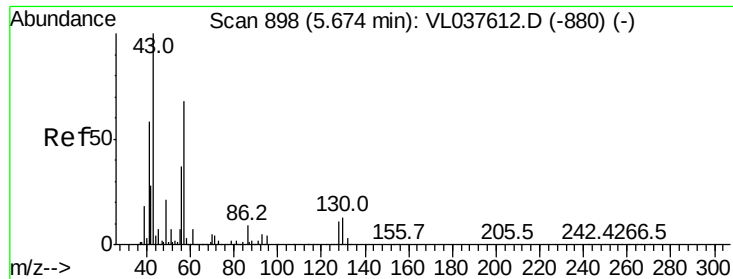
84 100

49 159.3 120.0 180.0

51 51.3 38.0 57.0

86 62.7 48.2 72.2





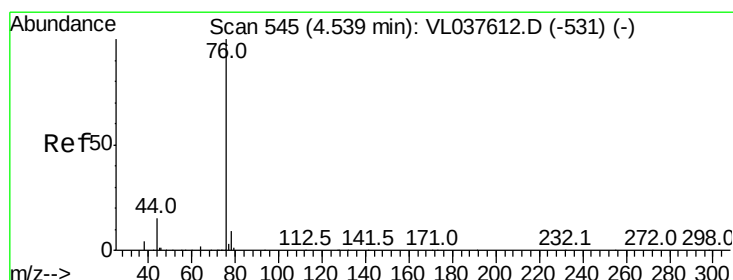
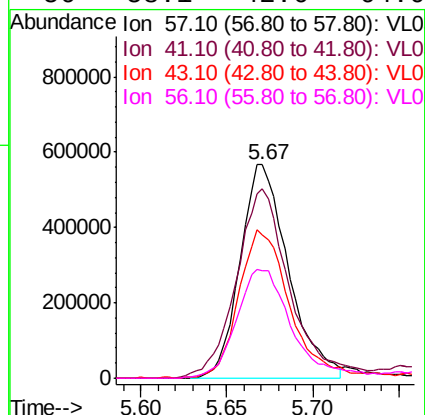
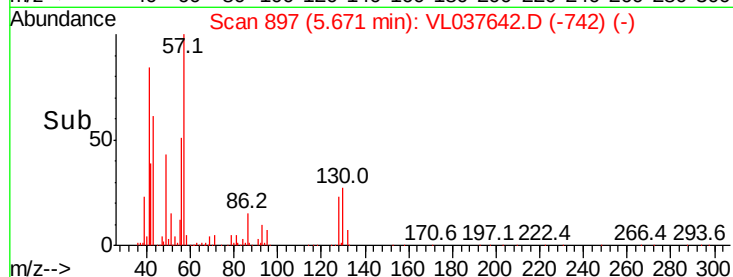
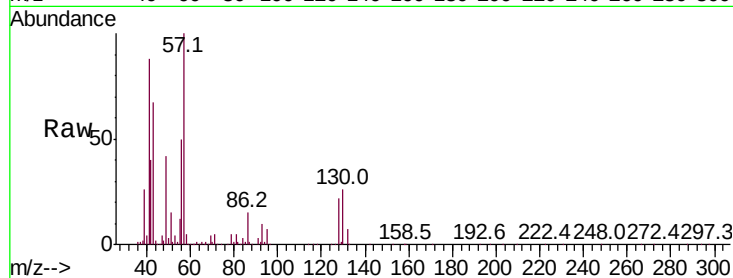
#26
Hexane
Concen: 6.539 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.00 min
Lab File: VL037642.D
Acq: 17 Sep 2021 15:23

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tot Ion	57	Resp	1105584
Ion	Ratio	Lower	Upper
57	100		
41	98.1	70.9	106.3
43	76.1	170.4	255.6#
56	58.1	42.6	64.0

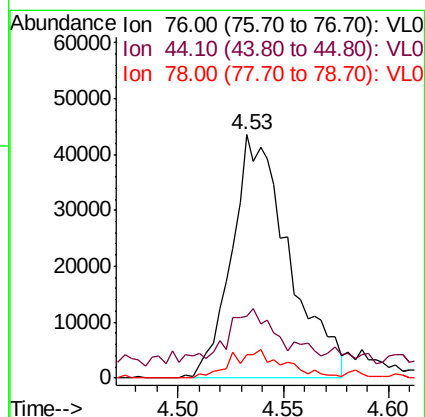
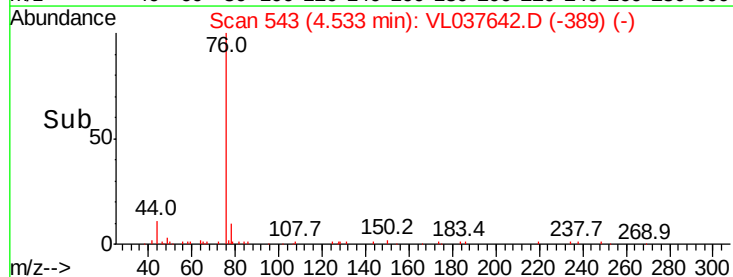
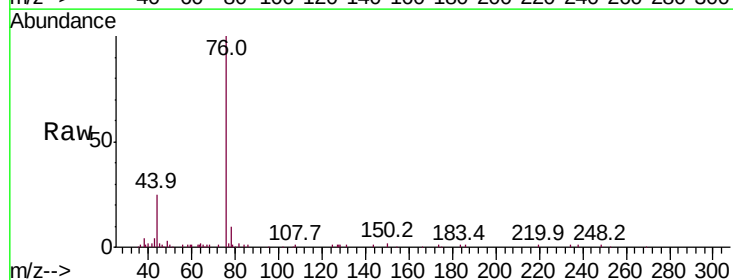
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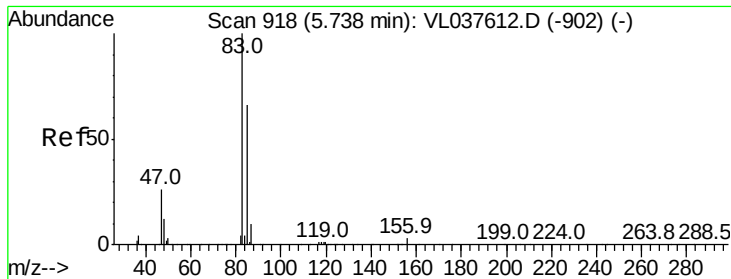
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#27
Carbon Disulfide
Concen: 0.530 ppbv m
RT: 4.53 min Scan# 543
Delta R.T. -0.01 min
Lab File: VL037642.D
Acq: 17 Sep 2021 15:23

Tgt Ion	76	Resp	81979
Ion	Ratio	Lower	Upper
76	100		
44	24.8	14.2	21.2#
78	12.3	7.4	11.0#





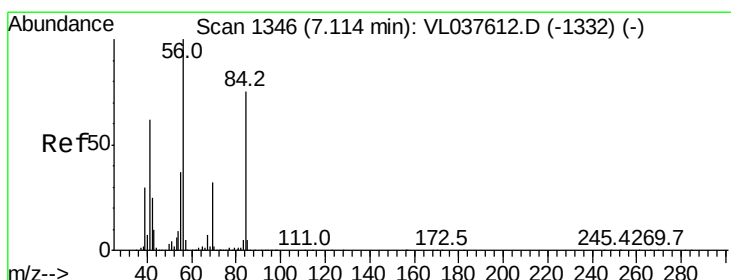
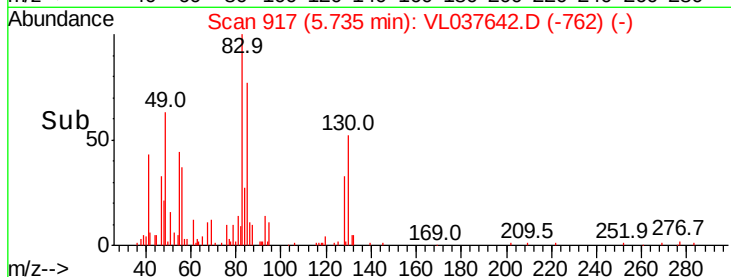
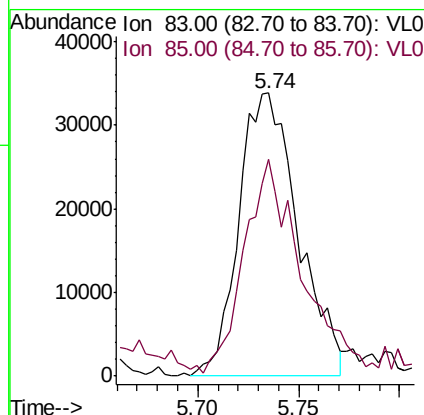
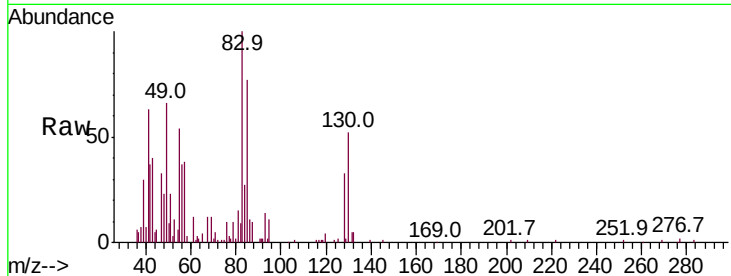
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Chloroform
Concen: 0.282 ppbv
RT: 5.74 min Scan# 917
Delta R.T. -0.00 min
Lab File: VL037642.D
Acq: 17 Sep 2021 15:23

Instrument :
MSVOA_L
ClientSampled :
SV1

Tot Ion: 83 Resp: 69687
Ion Ratio Lower Upper
83 100
85 74.2 52.6 79.0

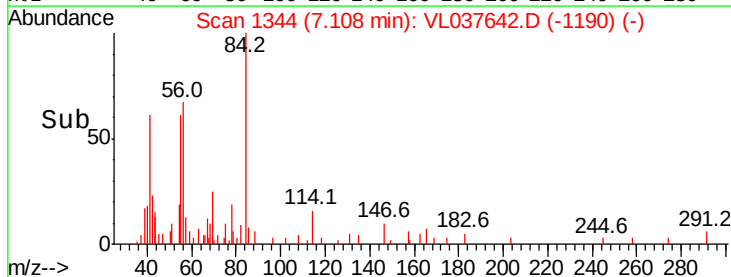
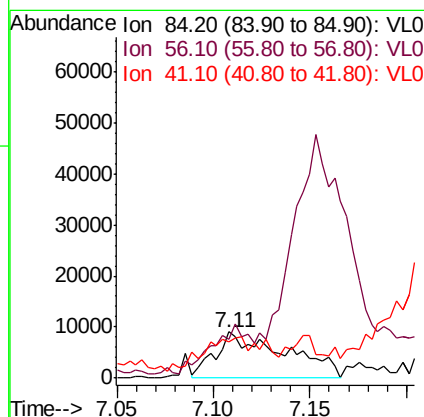
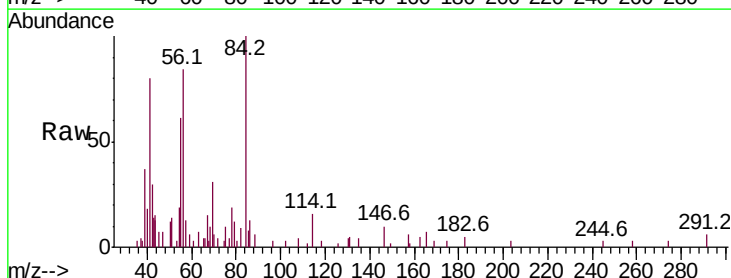
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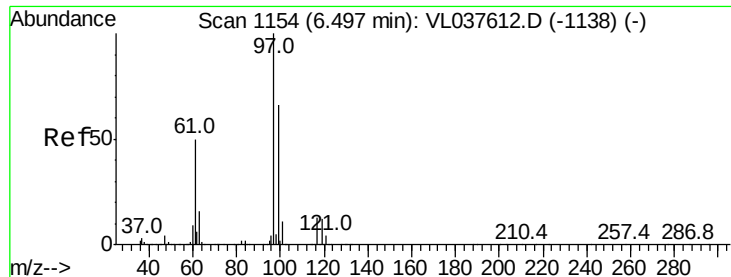
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#30
Cyclohexane
Concen: 0.156 ppbv m
RT: 7.11 min Scan# 1344
Delta R.T. -0.01 min
Lab File: VL037642.D
Acq: 17 Sep 2021 15:23

Tgt Ion: 84 Resp: 22569
Ion Ratio Lower Upper
84 100
56 0.0 113.6 170.4#
41 70.6 67.9 101.9





#32

1,1,1-Trichloroethane

Concen: 0.059 ppbv m

RT: 6.49 min Scan# 1153

Delta R.T. -0.00 min

Lab File: VL037642.D

Acq: 17 Sep 2021 15:23

Instrument :

MSVOA_L

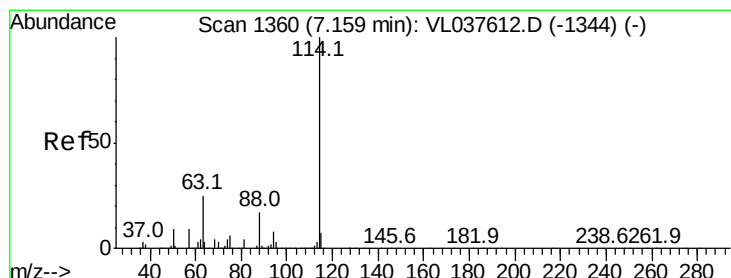
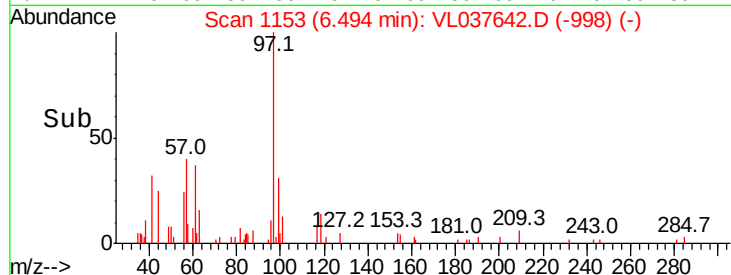
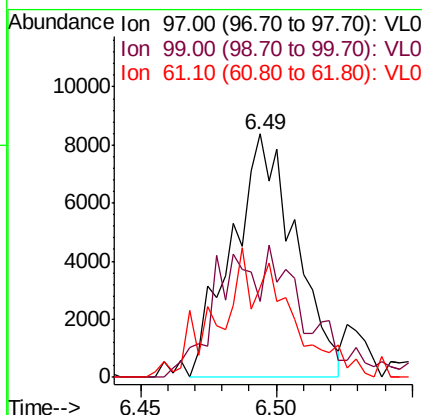
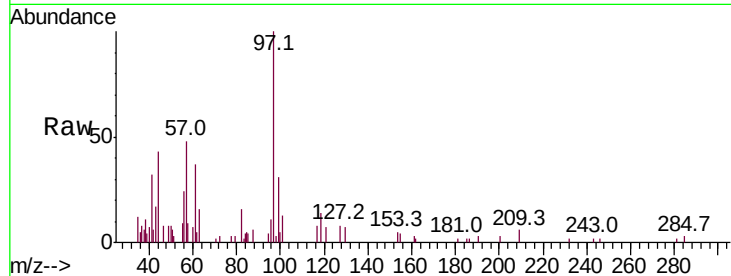
ClientSampled :

SV1

Tot Ion:	97	Resp:	13662
Ion Ratio	Lower	Upper	
97	100		
99	73.4	52.3	78.5
61	57.6	39.5	59.3

Manual Integrations
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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

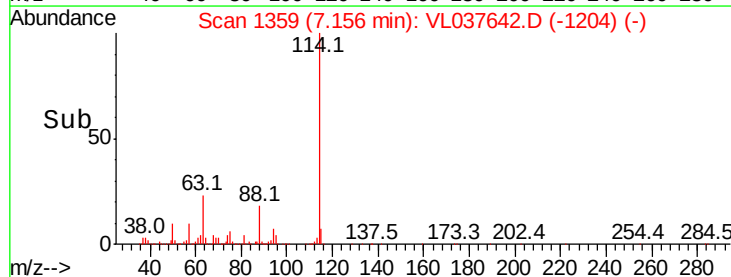
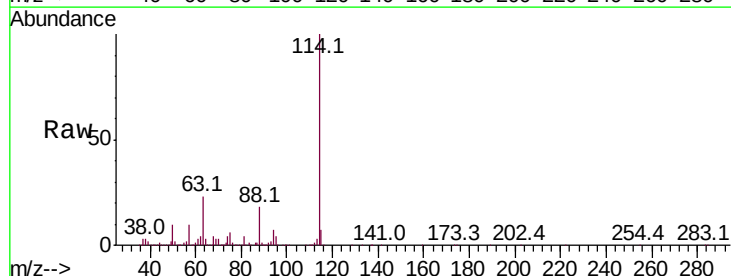
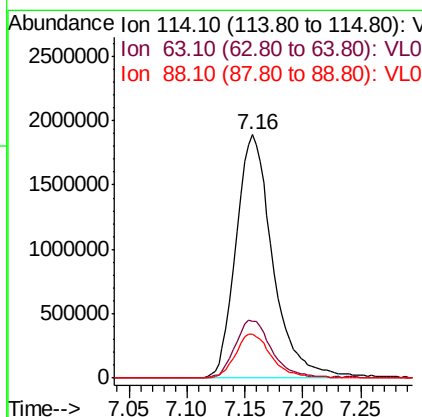
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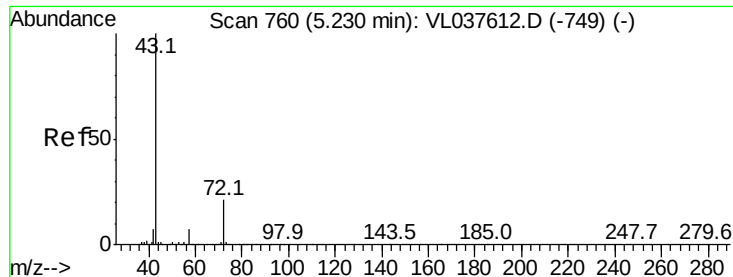
Delta R.T. -0.00 min

Lab File: VL037642.D

Acq: 17 Sep 2021 15:23

Tgt Ion:	114	Resp:	4142567
Ion Ratio	Lower	Upper	
114	100		
63	24.5	19.6	29.4
88	18.1	14.2	21.4





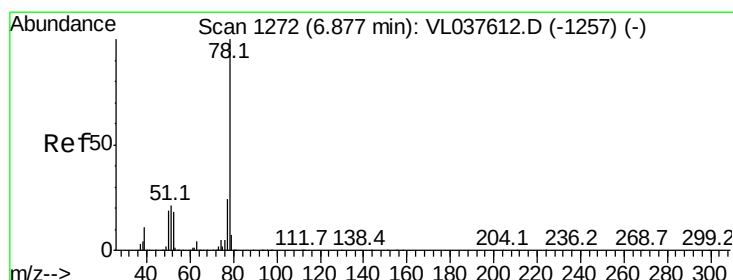
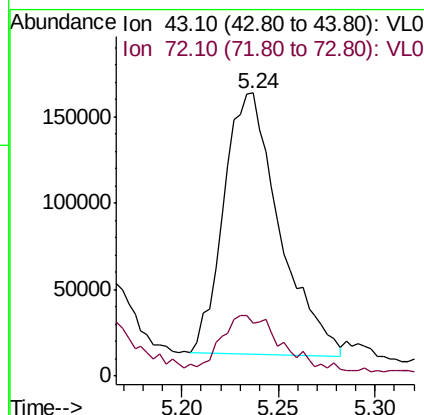
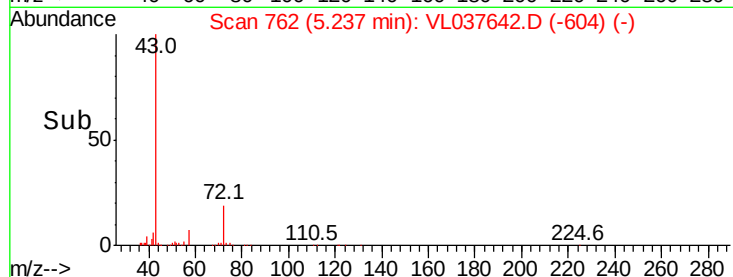
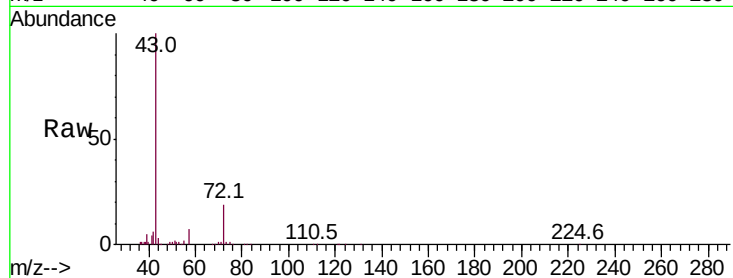
#34
2-Butanone
Concen: 1.797 ppbv
RT: 5.24 min Scan# 762
Delta R.T. 0.01 min
Lab File: VL037642.D
Acq: 17 Sep 2021 15:23

Instrument :
MSVOA_L
ClientSampled :
SV1

Tot Ion	Ratio	Lower	Upper
43	100		
72	28.3	18.4	27.6#

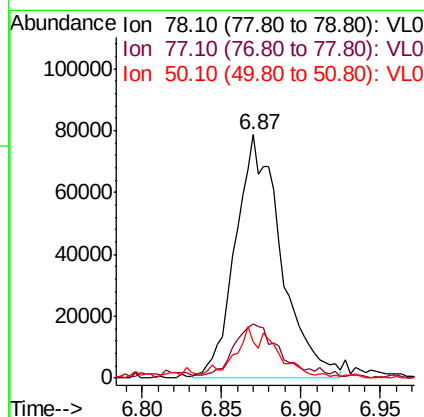
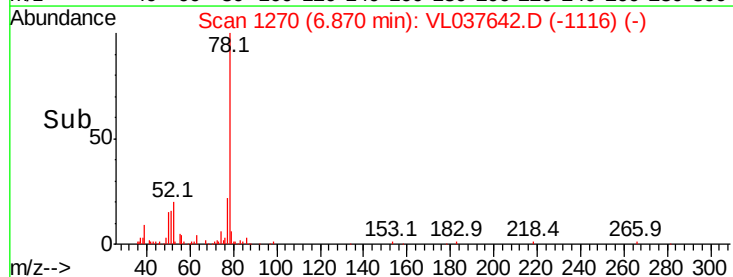
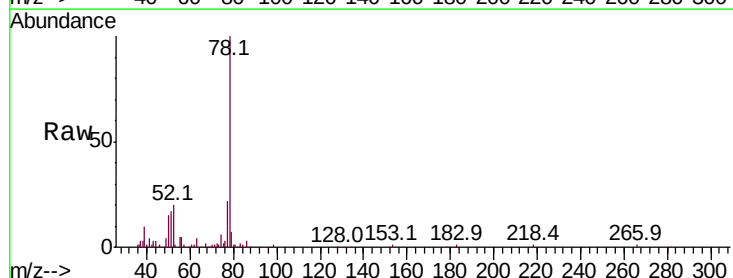
Manual Integrations
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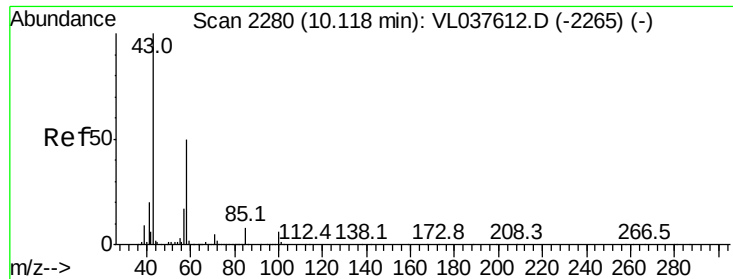
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#36
Benzene
Concen: 0.454 ppbv m
RT: 6.87 min Scan# 1270
Delta R.T. -0.01 min
Lab File: VL037642.D
Acq: 17 Sep 2021 15:23

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.1	19.0	28.4
50	14.9	14.8	22.2





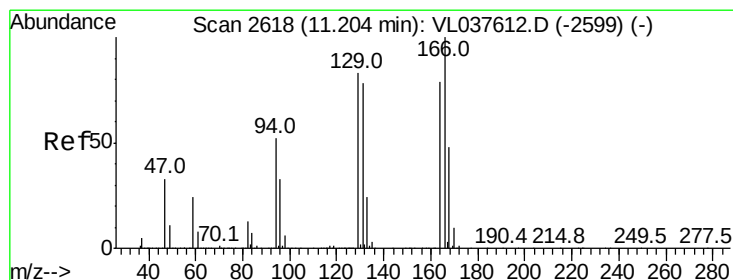
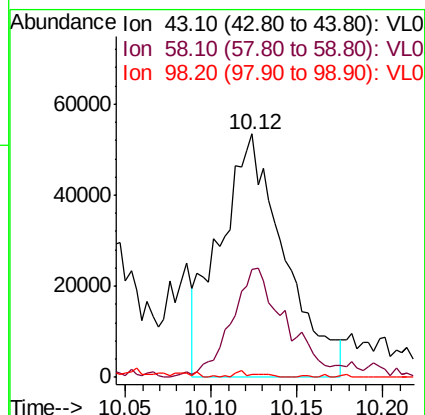
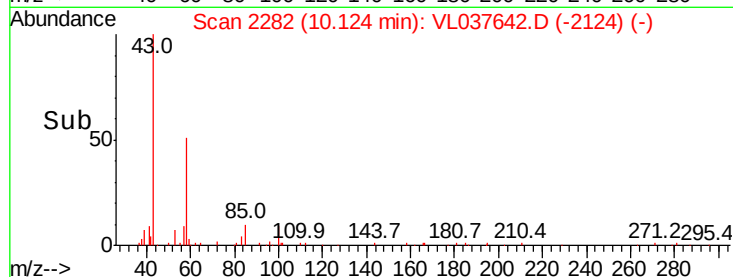
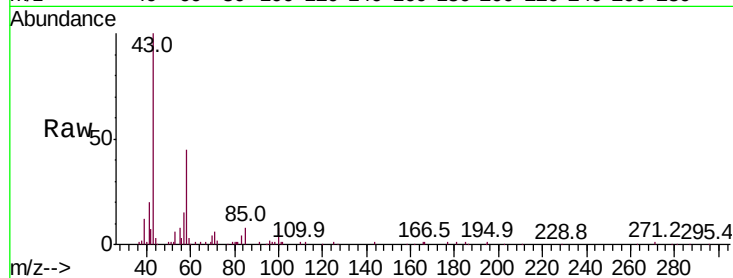
#51
2-Hexanone
Concen: 1.487 ppbv m
RT: 10.12 min Scan# 2282
Delta R.T. 0.01 min
Lab File: VL037642.D
Acq: 17 Sep 2021 15:23

Instrument :
MSVOA_L
ClientSampled :
SV1

Tot Ion: 43 Resp: 140193
Ion Ratio Lower Upper
43 100
58 40.8 39.3 58.9
98 0.8 0.4 0.6#

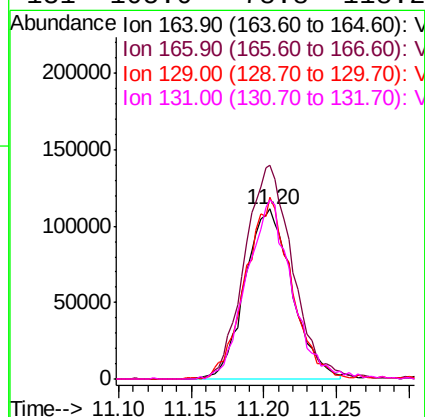
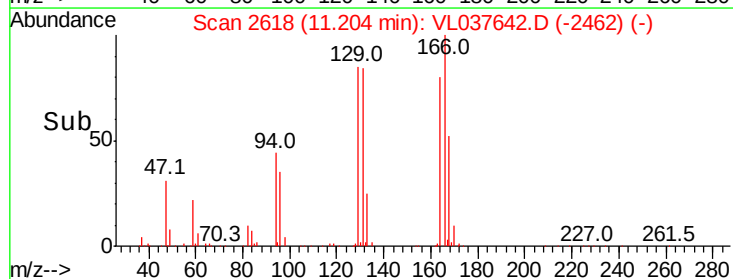
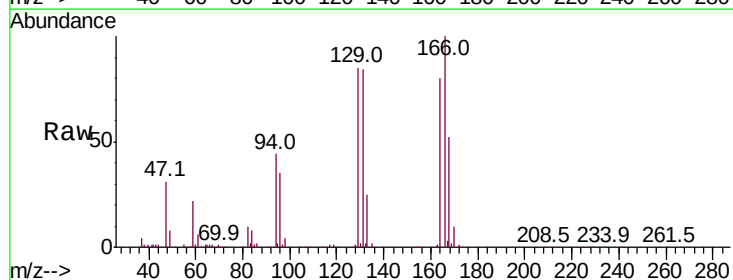
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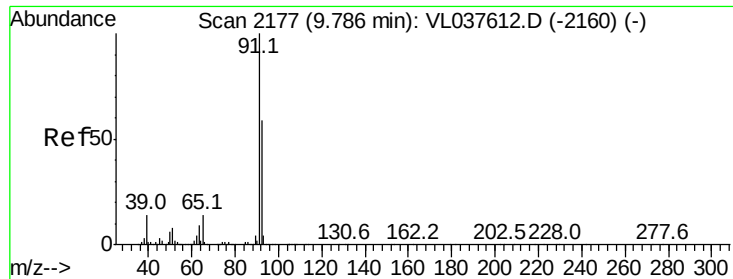
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#52
Tetrachloroethene
Concen: 1.901 ppbv
RT: 11.20 min Scan# 2618
Delta R.T. 0.00 min
Lab File: VL037642.D
Acq: 17 Sep 2021 15:23

Tgt Ion: 164 Resp: 252072
Ion Ratio Lower Upper
164 100
166 125.4 101.2 151.8
129 106.7 84.0 126.0
131 105.0 78.8 118.2





#53

Toluene

Concen: 0.719 ppbv

RT: 9.79 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VL037642.D

Acq: 17 Sep 2021 15:23

Instrument :

MSVOA_L

ClientSampled :

SV1

Tot Ion: 91 Resp: 275933

Ion Ratio Lower Upper

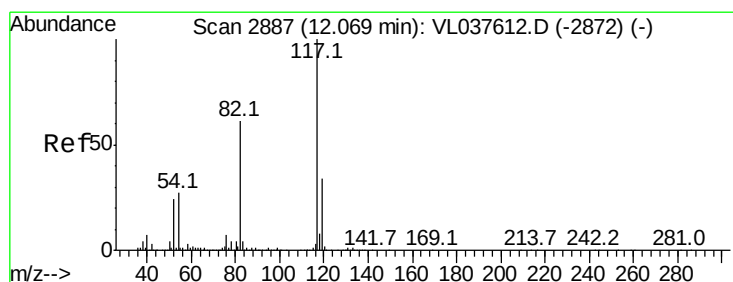
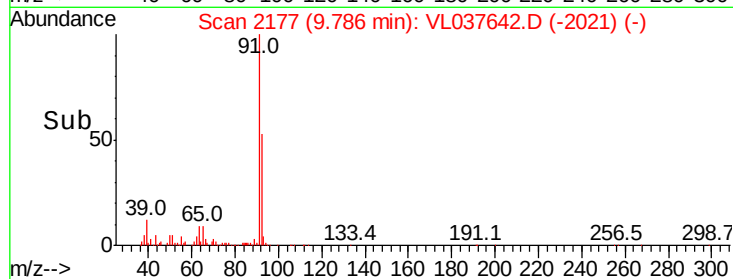
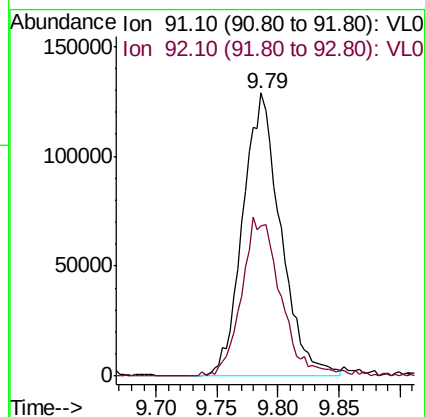
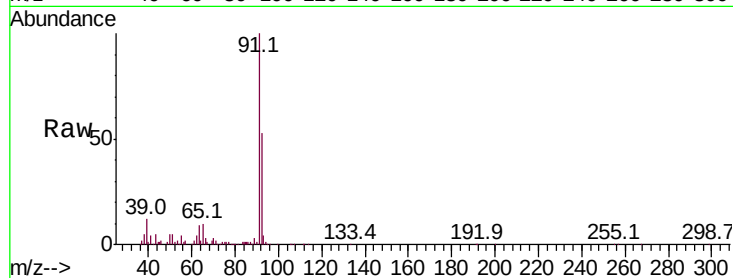
91 100

92 58.4 48.9 73.3

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2886

Delta R.T. -0.00 min

Lab File: VL037642.D

Acq: 17 Sep 2021 15:23

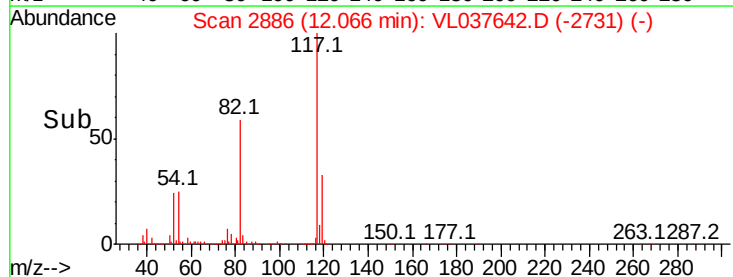
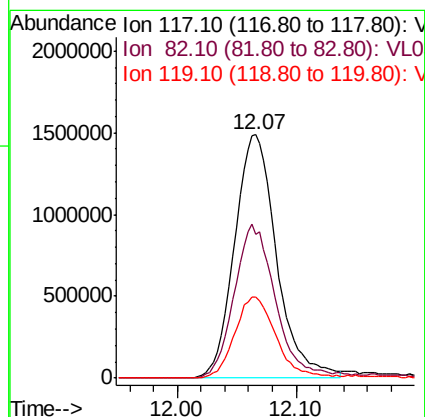
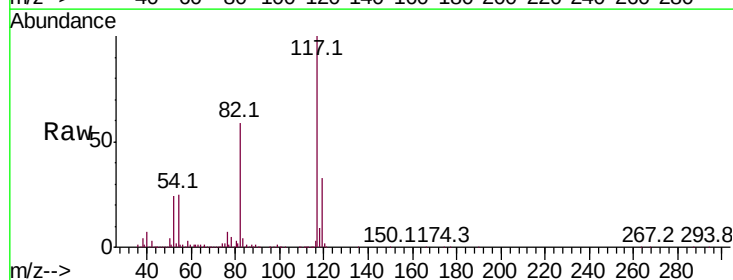
Tgt Ion: 117 Resp: 3637482

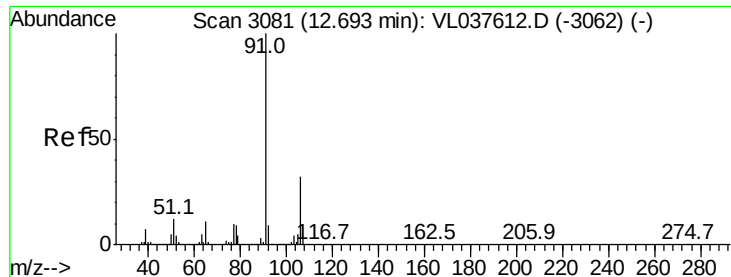
Ion Ratio Lower Upper

117 100

82 64.8 50.6 75.8

119 34.3 26.2 39.2





#58

Ethyl Benzene

Concen: 0.264 ppbv

RT: 12.69 min Scan# 3079

Delta R.T. -0.01 min

Lab File: VL037642.D

Acq: 17 Sep 2021 15:23

Instrument :

MSVOA_L

ClientSampled :

SV1

Tot Ion: 91 Resp: 127581

Ion Ratio Lower Upper

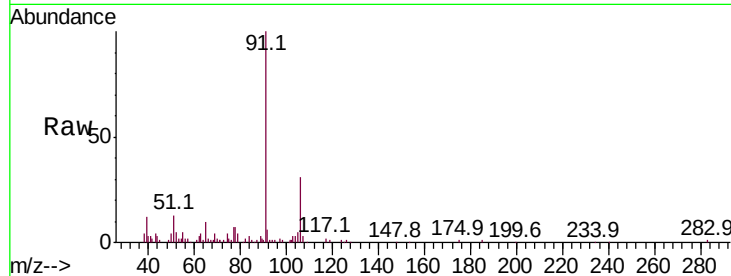
91 100

106 31.1 25.3 37.9

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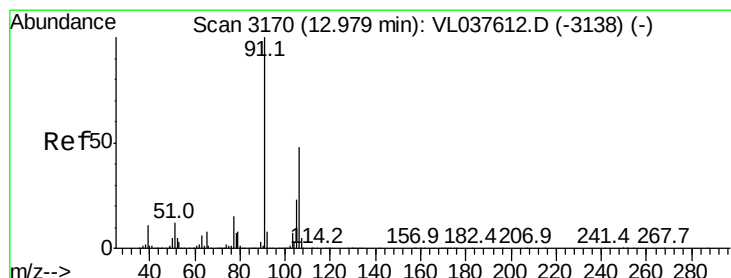
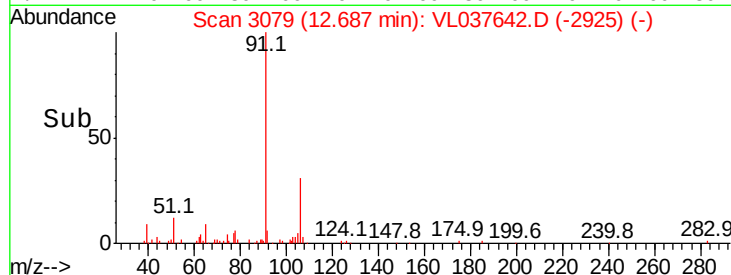
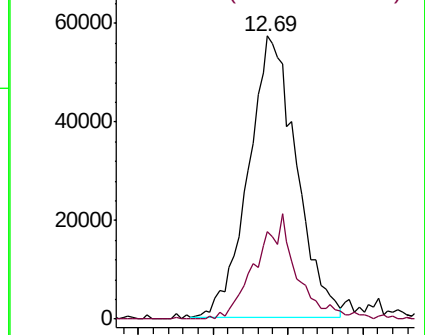
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 1.081 ppbv m

RT: 12.95 min Scan# 3160

Delta R.T. -0.03 min

Lab File: VL037642.D

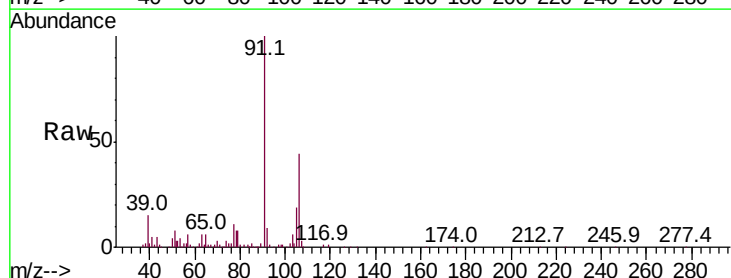
Acq: 17 Sep 2021 15:23

Tgt Ion: 91 Resp: 454885

Ion Ratio Lower Upper

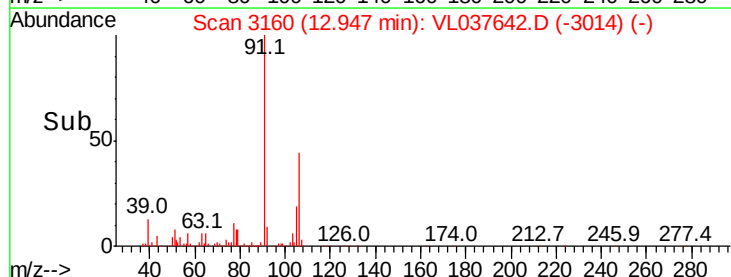
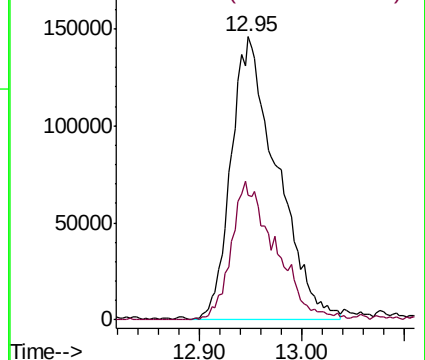
91 100

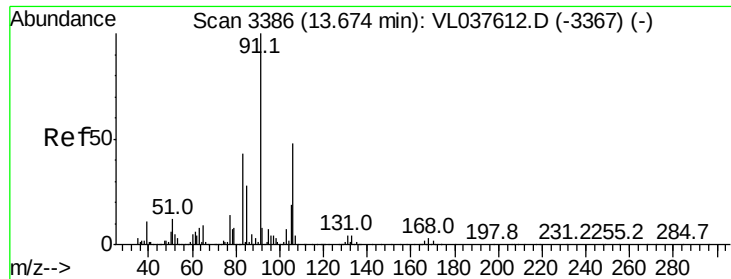
106 46.9 36.6 55.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





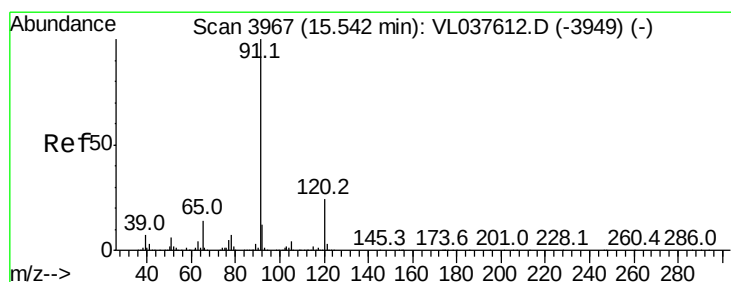
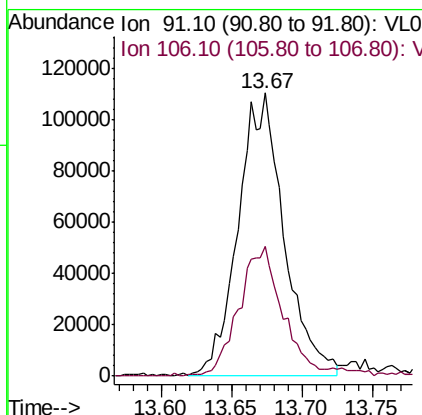
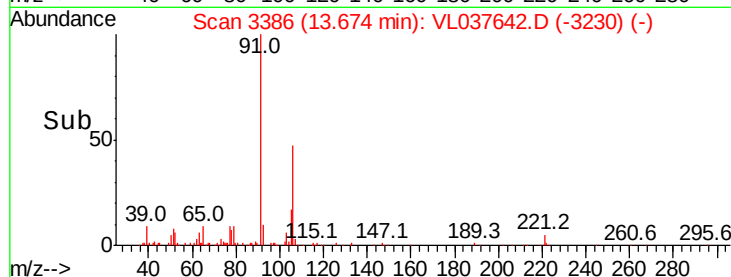
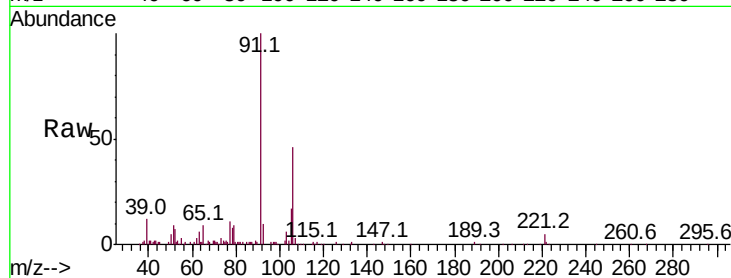
#60
o-Xylene
Concen: 0.626 ppbv m
RT: 13.67 min Scan# 3386
Delta R.T. 0.00 min
Lab File: VL037642.D
Acq: 17 Sep 2021 15:23

Instrument :
MSVOA_L
ClientSampled :
SV1

Tot Ion	Ratio	Lower	Upper
91	100		
106	45.9	23.0	69.0

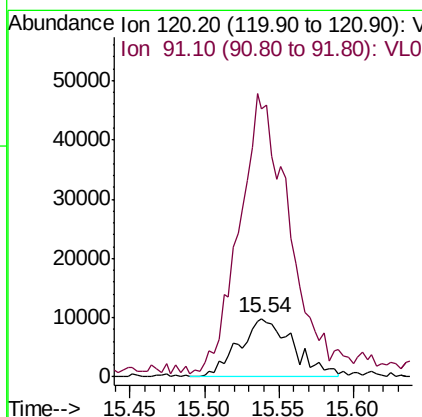
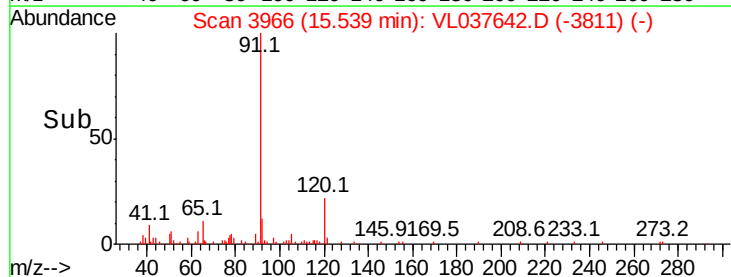
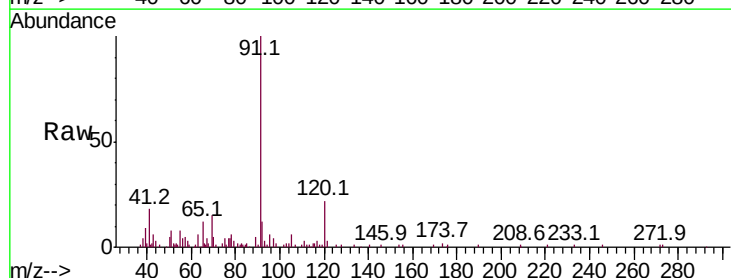
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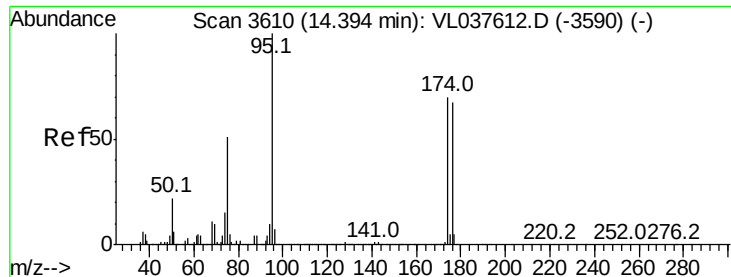
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#64
n-propylbenzene
Concen: 0.171 ppbv m
RT: 15.54 min Scan# 3966
Delta R.T. -0.00 min
Lab File: VL037642.D
Acq: 17 Sep 2021 15:23

Tgt Ion	Ratio	Lower	Upper
120	100		
91	469.1	345.0	517.4





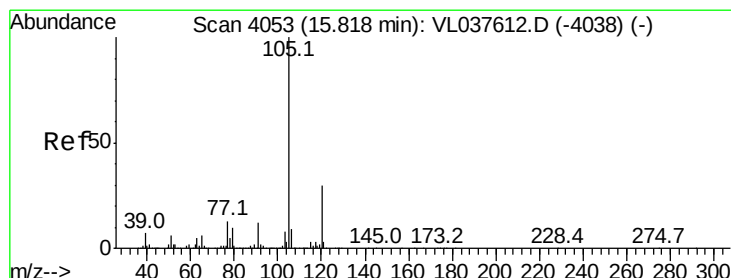
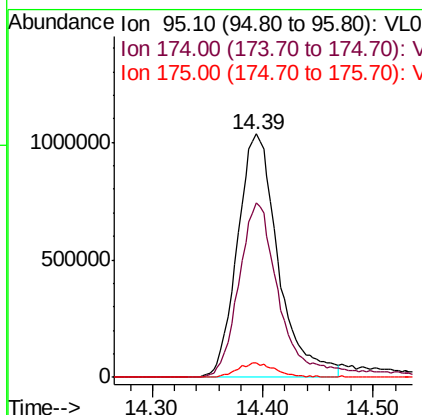
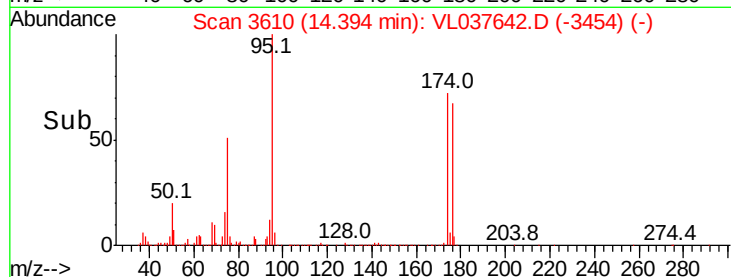
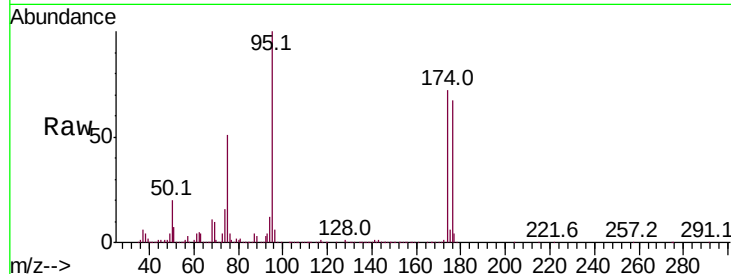
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.092 ppbv
 RT: 14.39 min Scan# 3610
 Delta R.T. 0.00 min
 Lab File: VL037642.D
 Acq: 17 Sep 2021 15:23

Instrument :
 MSVOA_L
 ClientSampled :
 SV1

Tot Ion	Ratio	Lower	Upper
95	100		
174	74.9	56.3	84.5
175	5.8	4.4	6.6

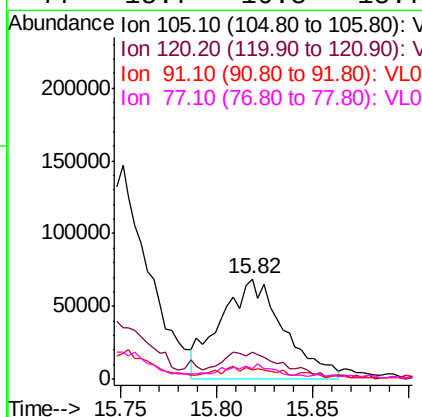
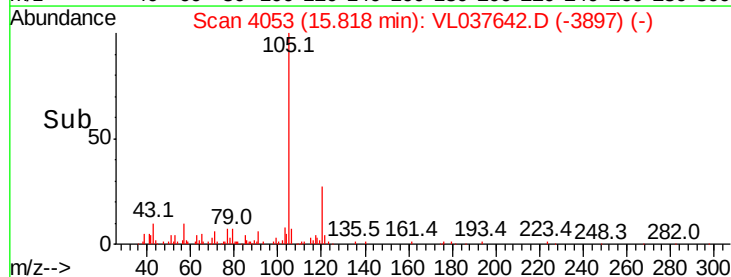
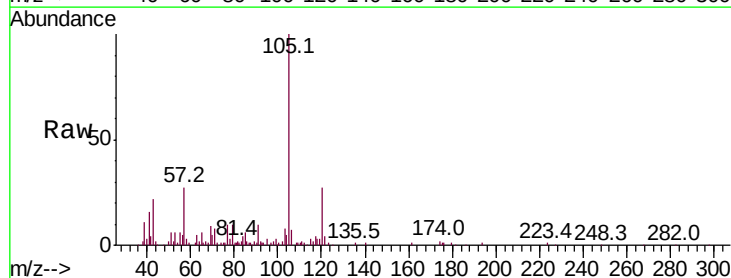
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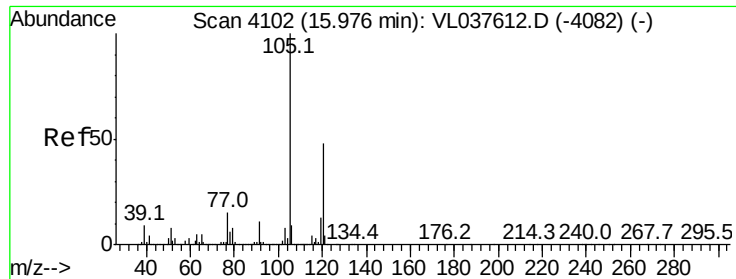
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#72
 4-Ethyltoluene
 Concen: 0.347 ppbv m
 RT: 15.82 min Scan# 4053
 Delta R.T. 0.00 min
 Lab File: VL037642.D
 Acq: 17 Sep 2021 15:23

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.8	24.7	37.1
91	0.0	9.9	14.9#
77	15.7	10.5	15.7





#73

1,3,5-Trimethylbenzene

Concen: 0.375 ppbv

RT: 15.98 min Scan# 4102

Delta R.T. 0.00 min

Lab File: VL037642.D

Acq: 17 Sep 2021 15:23

Instrument :

MSVOA_L

ClientSampled :

SV1

Tot Ion:105 Resp: 160814

Ion Ratio Lower Upper

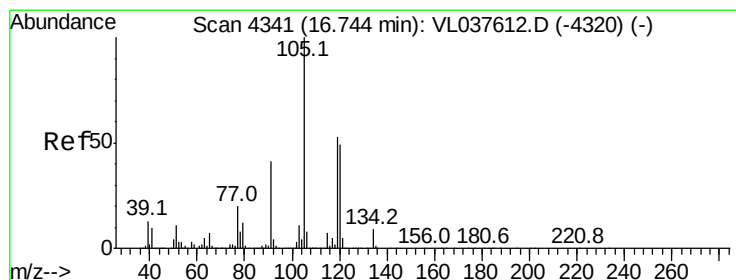
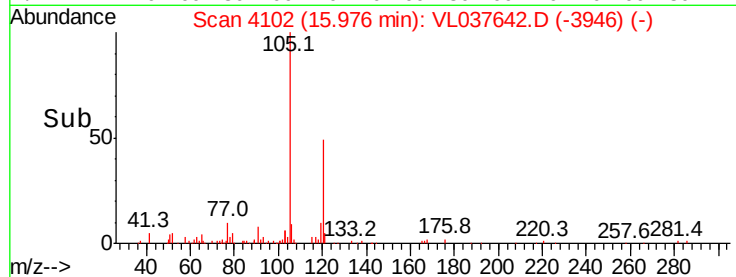
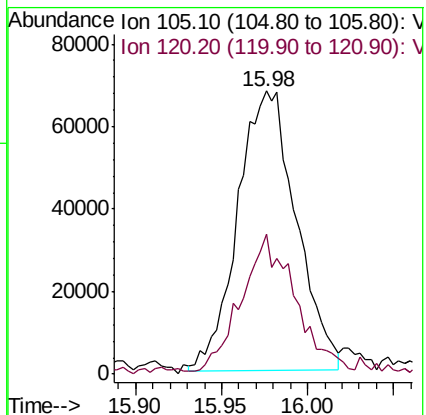
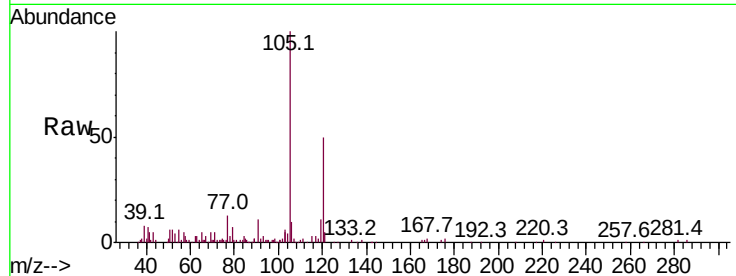
105 100

120 50.2 38.3 57.5

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#74

1,2,4-Trimethylbenzene

Concen: 1.458 ppbv

RT: 16.74 min Scan# 4339

Delta R.T. -0.01 min

Lab File: VL037642.D

Acq: 17 Sep 2021 15:23

Tgt Ion:105 Resp: 658259

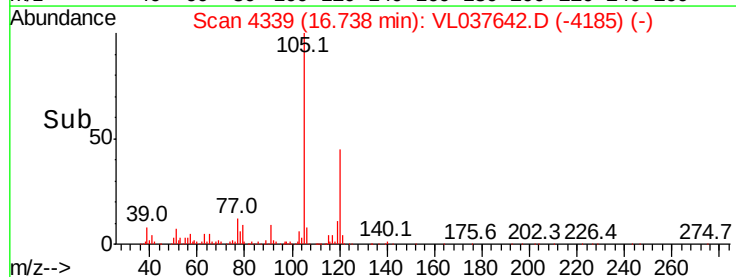
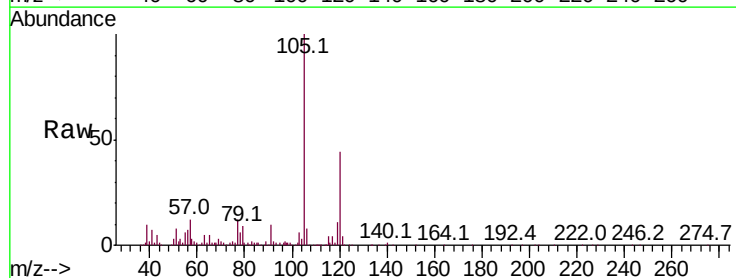
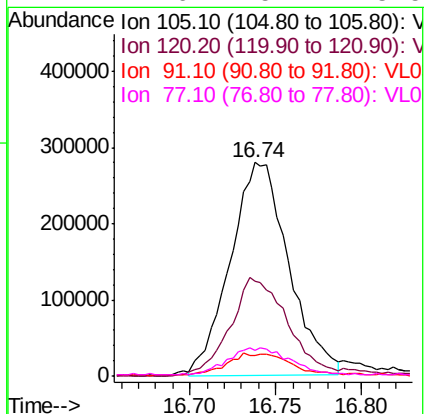
Ion Ratio Lower Upper

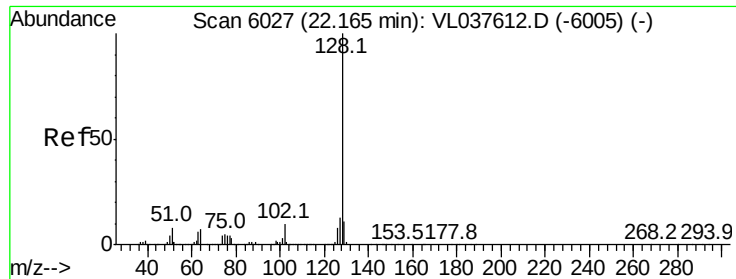
105 100

120 43.6 39.4 59.0

91 9.3 33.3 49.9#

77 11.6 15.7 23.5#





#79

Naphthalene

Concen: 0.151 ppbv m

RT: 22.17 min Scan# 6030

Delta R.T. 0.01 min

Lab File: VL037642.D

Acq: 17 Sep 2021 15:23

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tot Ion:	128	Resp:	41767
Ion Ratio	Lower	Upper	
128	100		
127	27.7	10.6	16.0#
129	10.9	8.6	12.8

Manual Integrations
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9/20/2021 5:28:33 PM

