

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL091621\
 Data File : VL037627.D
 Acq On : 16 Sep 2021 22:45
 Operator : SY/AP
 Sample : M3780-03DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Manual Integrations
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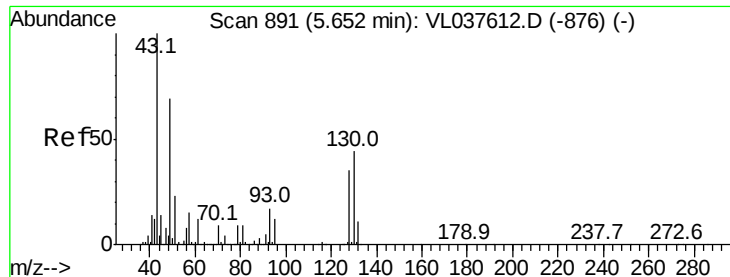
Quant Time: Sep 17 10:11:43 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 17 10:11:43 2021
 QLast Update : Thu Sep 16 13:42:46 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1597764	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4507759	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3862548	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2785905	9.98	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	44627m	0.154	ppbv	
3) Chlorodifluoromethane	2.97	51	152846m	0.507	ppbv	
4) Chloromethane	3.13	50	138742	1.246	ppbv	95
9) Propene	3.01	41	1136900	10.694	ppbv #	63
10) Heptane	8.10	43	219166	0.884	ppbv	90
11) Trichlorofluoromethane	3.93	101	50226m	0.216	ppbv	
13) Ethanol	3.67	45	75390601m	7250.240	ppbv	
15) Acetone	3.83	43	12561314	75.668	ppbv	98
19) Isopropyl Alcohol	4.04	45	23492438	260.090	ppbv #	93
20) Methylene Chloride	4.33	84	369951	4.668	ppbv	98
25) Ethyl Acetate	5.66	43	2746193	6.830	ppbv #	92
26) Hexane	5.66	57	609917m	3.193	ppbv	
29) Chloroform	5.74	83	2185087	7.835	ppbv	94
30) Cyclohexane	7.11	84	86888	0.532	ppbv #	81
34) 2-Butanone	5.23	43	866126	4.728	ppbv	100
35) Carbon Tetrachloride	7.00	117	19186m	0.075	ppbv	
36) Benzene	6.87	78	469317	1.249	ppbv	96
41) Tetrahydrofuran	6.05	42	283390m	3.291	ppbv	
44) 2,2,4-Trimethylpentane	7.85	57	571851	0.905	ppbv #	87
52) Tetrachloroethene	11.19	164	16025m	0.111	ppbv	
53) Toluene	9.78	91	2411889	5.773	ppbv	99
58) Ethyl Benzene	12.69	91	634368	1.237	ppbv	99
59) m/p-Xylene	12.94	91	2209871	4.946	ppbv	95
60) o-Xylene	13.67	91	768082	1.806	ppbv	100
61) Styrene	13.51	104	377772m	1.801	ppbv	
64) n-propylbenzene	15.54	120	24904m	0.162	ppbv	
69) p-Isopropyltoluene	17.63	119	350109	0.590	ppbv	98
72) 4-Ethyltoluene	15.82	105	171638m	0.352	ppbv	
73) 1,3,5-Trimethylbenzene	15.98	105	143859m	0.316	ppbv	
74) 1,2,4-Trimethylbenzene	16.73	105	490637	1.024	ppbv #	78
76) 1,4-Dichlorobenzene	17.12	146	113270m	0.386	ppbv	
79) Naphthalene	22.17	128	237629m	0.807	ppbv	
80) Naphthalene,2-methyl-	24.94	142	26808m	0.399	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. 0.00 min

Lab File: VL037627.D

Acq: 16 Sep 2021 22:45

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tot Ion: 49 Resp: 1597764

Ion Ratio Lower Upper

49 100

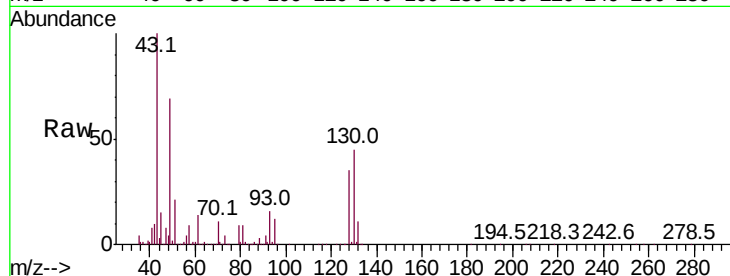
128 51.4 27.9 83.6

130 66.1 33.9 101.7

Manual Integrations
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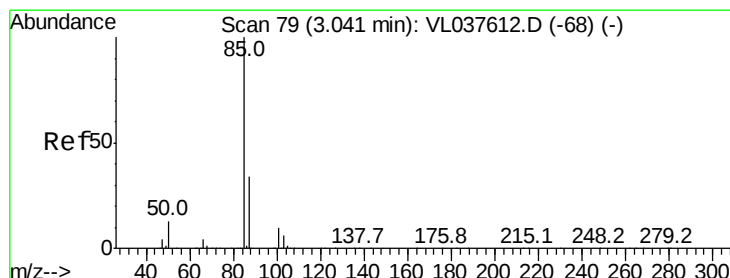
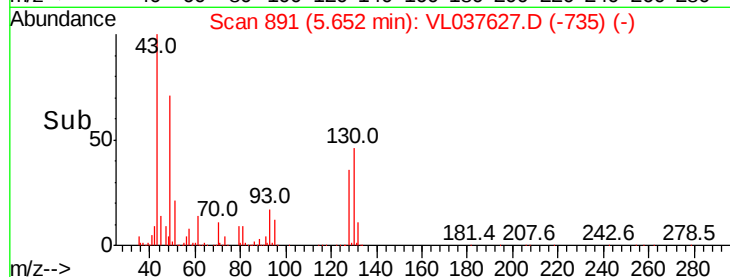
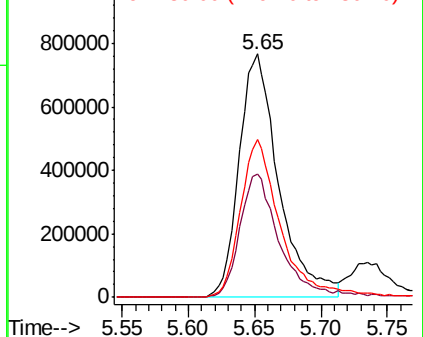
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.154 ppbv m

RT: 3.04 min Scan# 78

Delta R.T. -0.00 min

Lab File: VL037627.D

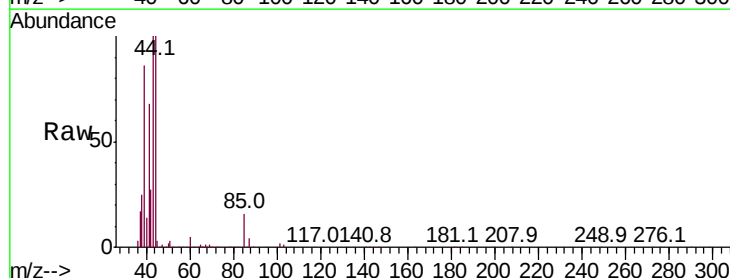
Acq: 16 Sep 2021 22:45

Tgt Ion: 85 Resp: 44627

Ion Ratio Lower Upper

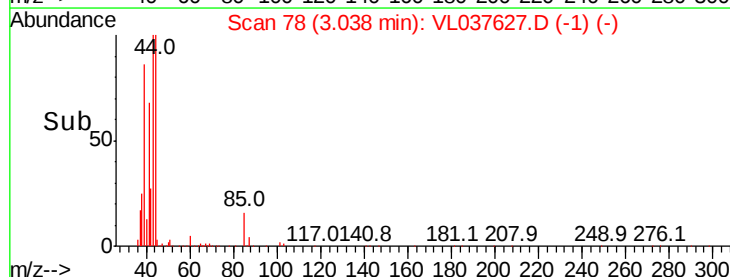
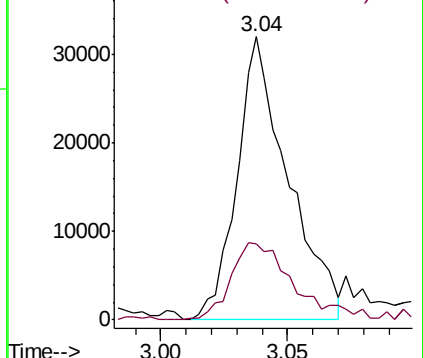
85 100

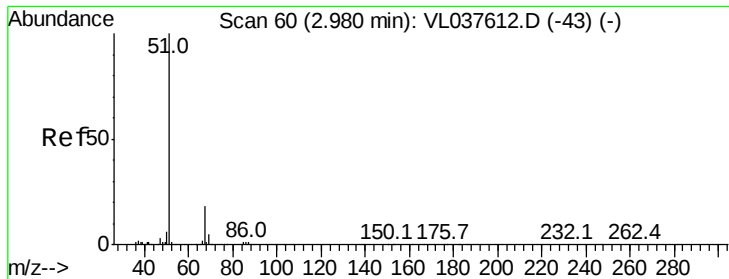
87 26.8 26.8 40.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

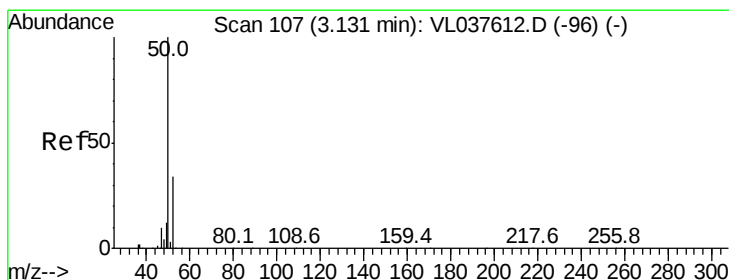
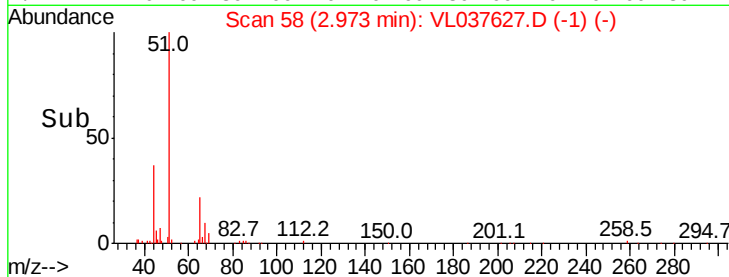
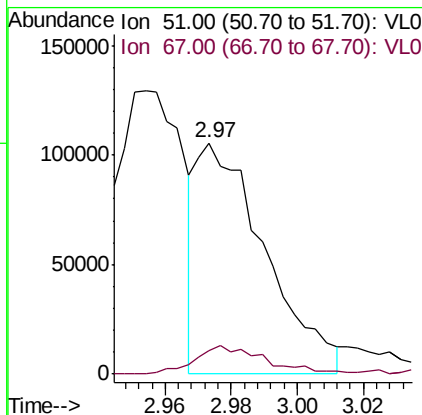
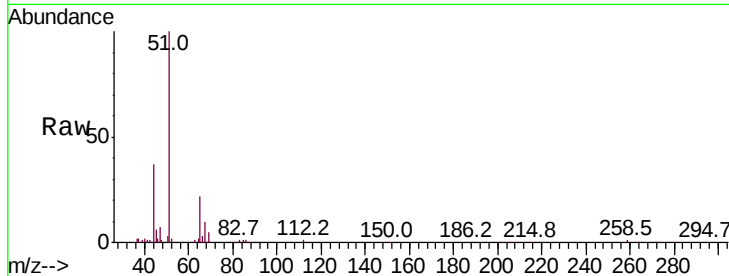
Chlorodifluoromethane
 Concen: 0.507 ppbv
 RT: 2.97 min Scan# 58
 Delta R.T. -0.01 min
 Lab File: VL037627.D
 Acq: 16 Sep 2021 22:45

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Tot Ion: 51 Resp: 152846
 Ion Ratio Lower Upper
 51 100
 67 13.5 14.0 21.0#

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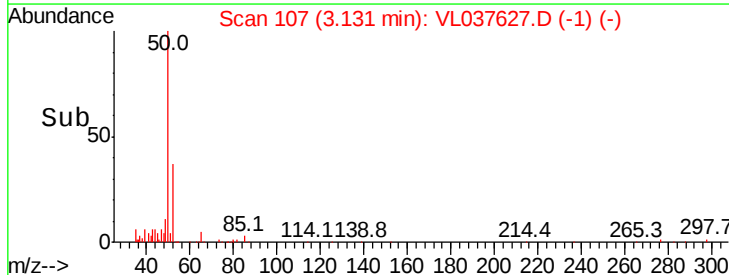
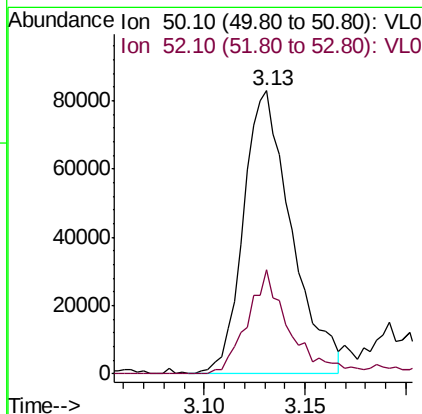
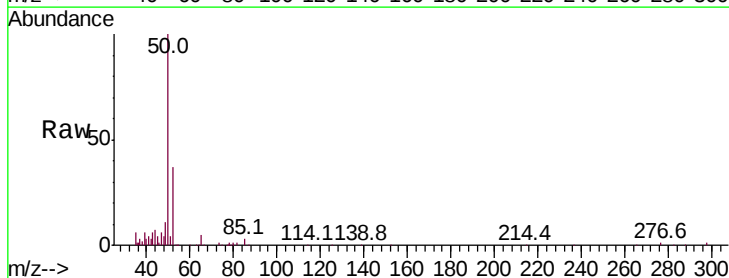
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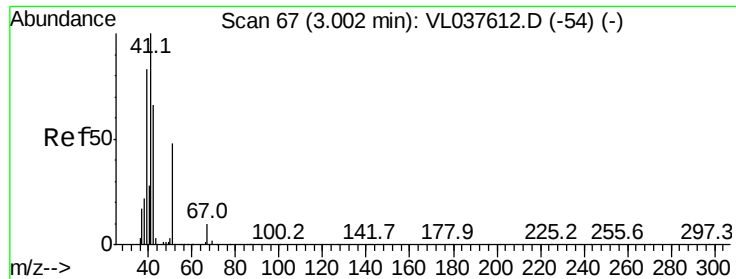


#4

Chloromethane
 Concen: 1.246 ppbv
 RT: 3.13 min Scan# 107
 Delta R.T. 0.00 min
 Lab File: VL037627.D
 Acq: 16 Sep 2021 22:45

Tgt Ion: 50 Resp: 138742
 Ion Ratio Lower Upper
 50 100
 52 37.0 27.1 40.7





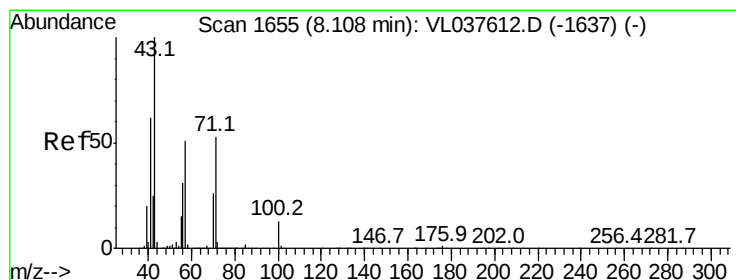
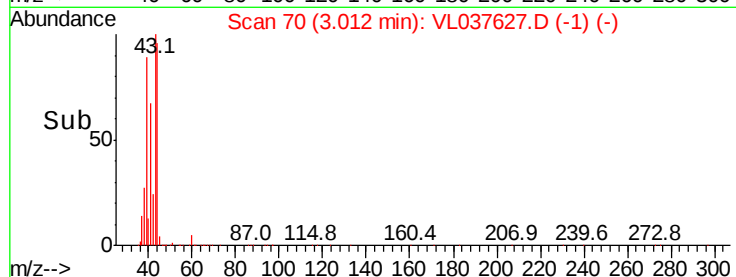
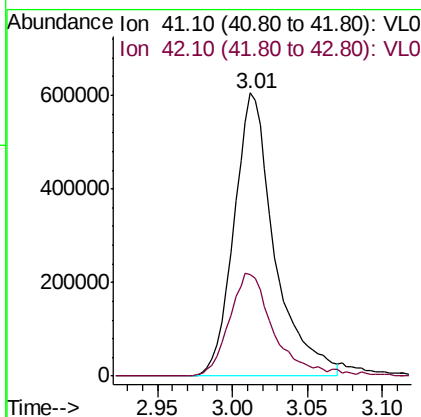
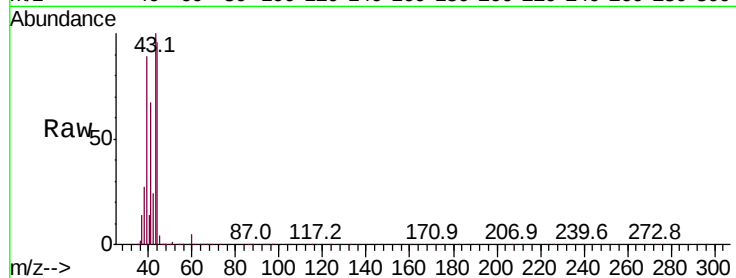
#9
 Propene
 Concen: 10.694 ppbv
 RT: 3.01 min Scan# 70
 Delta R.T. 0.01 min
 Lab File: VL037627.D
 Acq: 16 Sep 2021 22:45

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Tot Ion: 41 Resp: 1136900
 Ion Ratio Lower Upper
 41 100
 42 40.7 57.2 85.8#

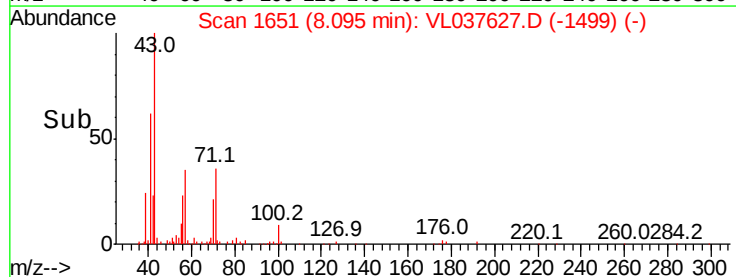
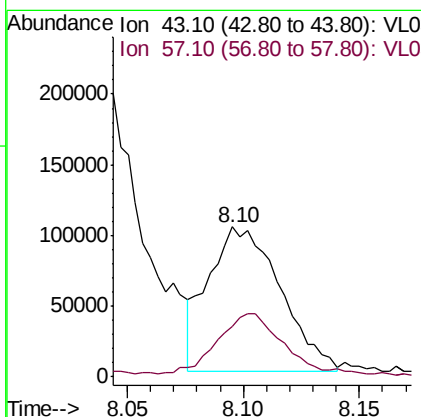
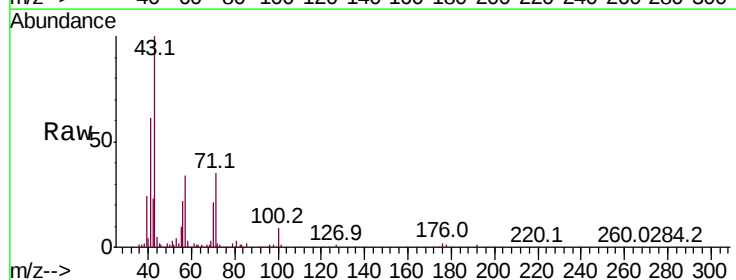
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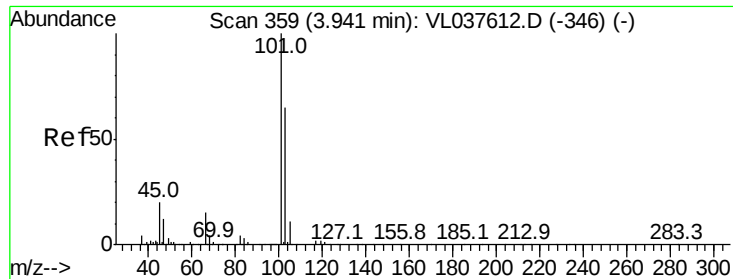
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#10
 Heptane
 Concen: 0.884 ppbv
 RT: 8.10 min Scan# 1651
 Delta R.T. -0.01 min
 Lab File: VL037627.D
 Acq: 16 Sep 2021 22:45

Tgt Ion: 43 Resp: 219166
 Ion Ratio Lower Upper
 43 100
 57 43.0 40.1 60.1





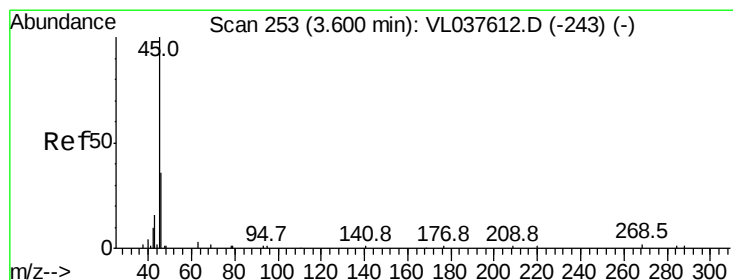
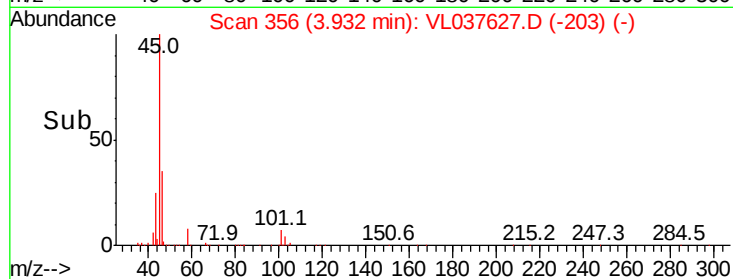
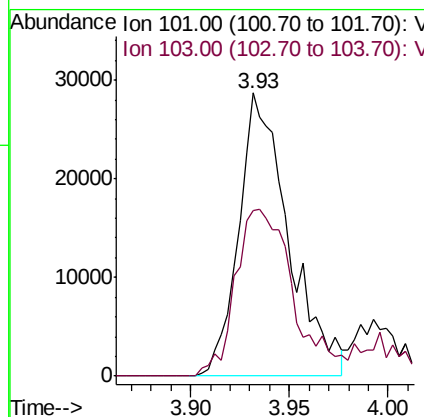
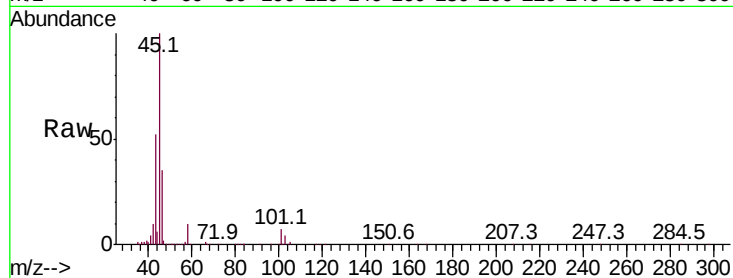
#11
 Trichlorofluoromethane
 Concen: 0.216 ppbv m
 RT: 3.93 min Scan# 356
 Delta R.T. -0.01 min
 Lab File: VL037627.D
 Acq: 16 Sep 2021 22:45

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Tot Ion:101 Resp: 50226
 Ion Ratio Lower Upper
 101 100
 103 58.7 51.9 77.9

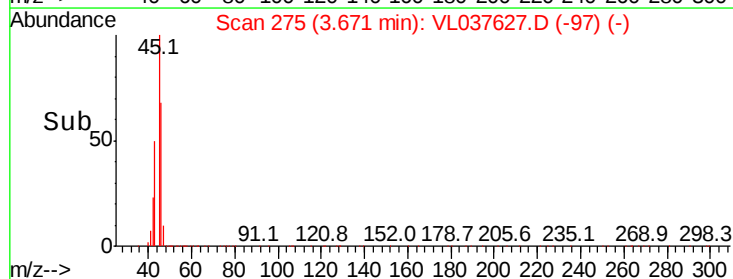
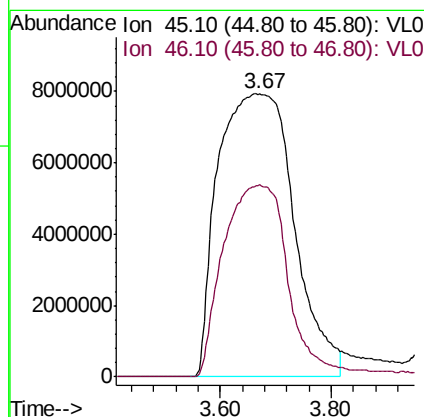
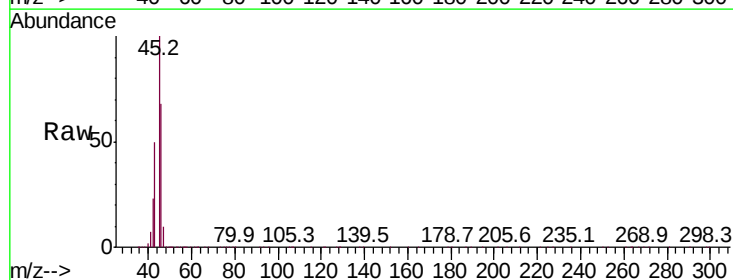
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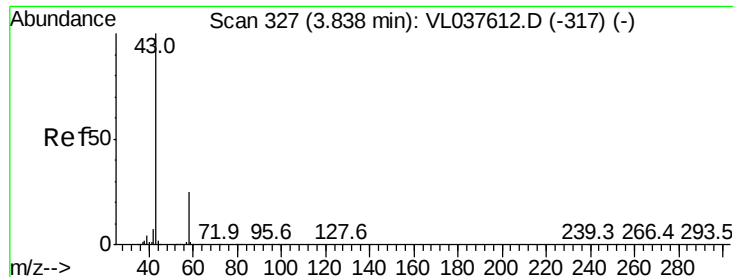
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#13
 Ethanol
 Concen: 7250.240 ppbv m
 RT: 3.67 min Scan# 275
 Delta R.T. 0.07 min
 Lab File: VL037627.D
 Acq: 16 Sep 2021 22:45

Tgt Ion: 45 Resp:75390601
 Ion Ratio Lower Upper
 45 100
 46 0.0 17.2 68.8#





#15

Acetone

Concen: 75.668 ppbv

RT: 3.83 min Scan# 325

Delta R.T. -0.01 min

Lab File: VL037627.D

Acq: 16 Sep 2021 22:45

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tot Ion: 43 Resp:12561314

Ion Ratio Lower Upper

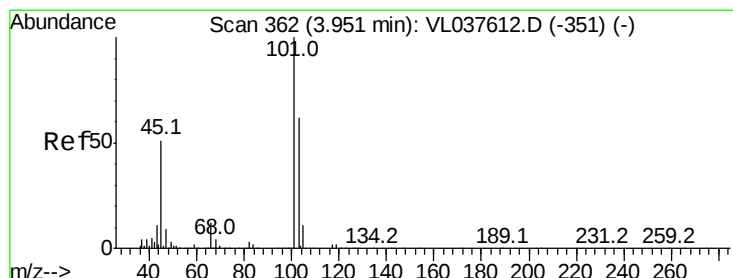
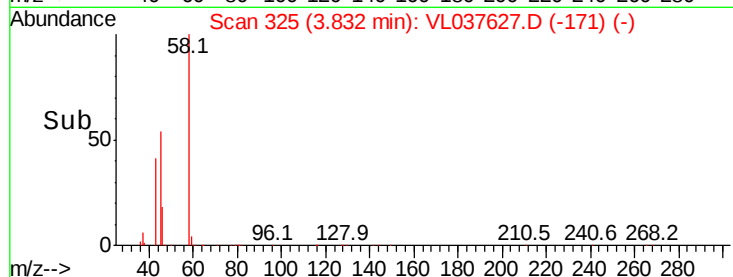
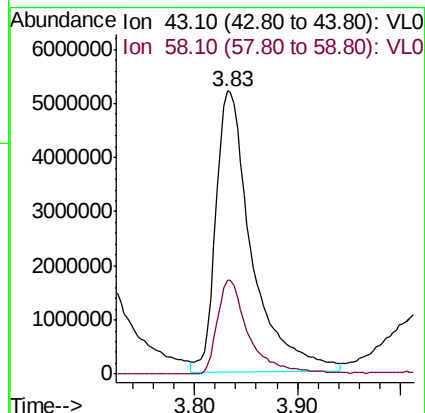
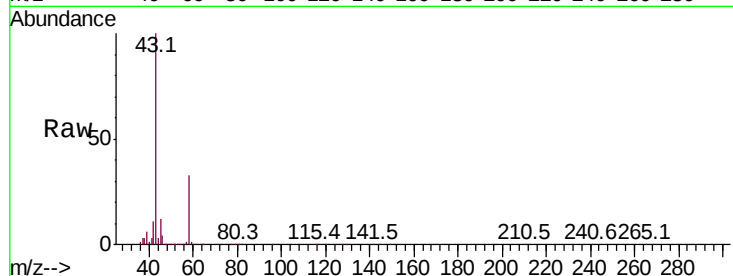
43 100

58 29.8 24.9 37.3

Manual Integrations
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9/20/2021 5:27:26 PM



#19

Isopropyl Alcohol

Concen: 260.090 ppbv

RT: 4.04 min Scan# 389

Delta R.T. 0.09 min

Lab File: VL037627.D

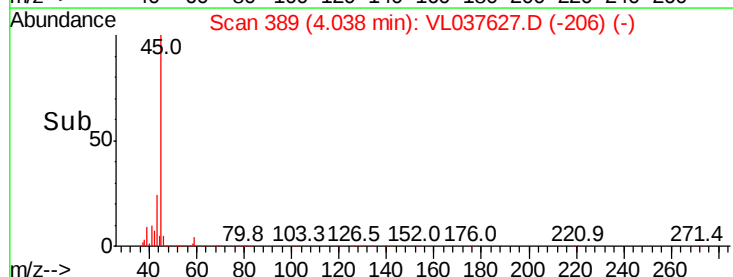
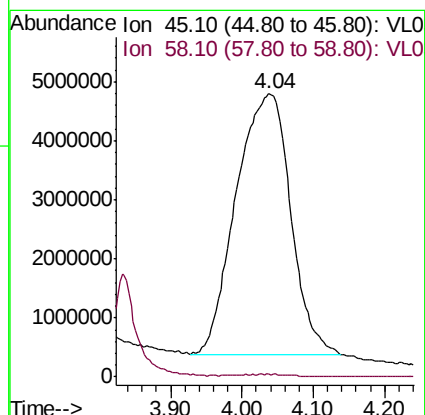
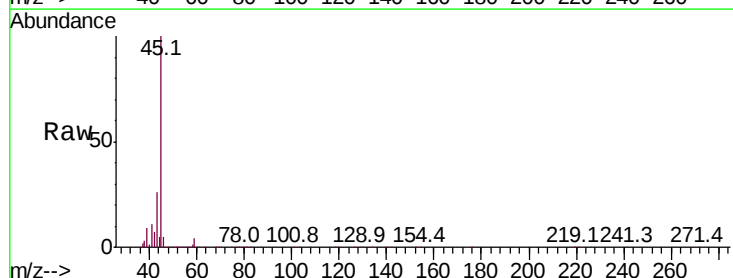
Acq: 16 Sep 2021 22:45

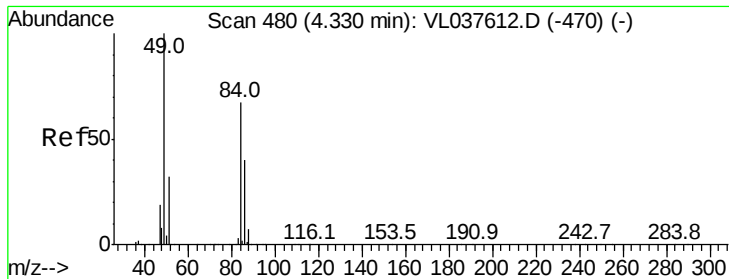
Tgt Ion: 45 Resp:23492438

Ion Ratio Lower Upper

45 100

58 1.2 2.9 4.3#





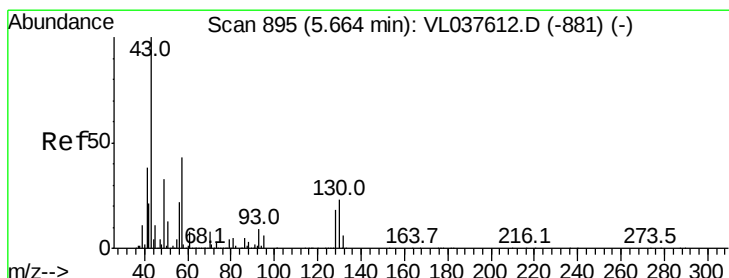
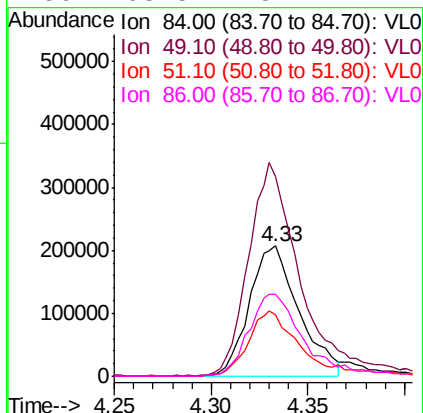
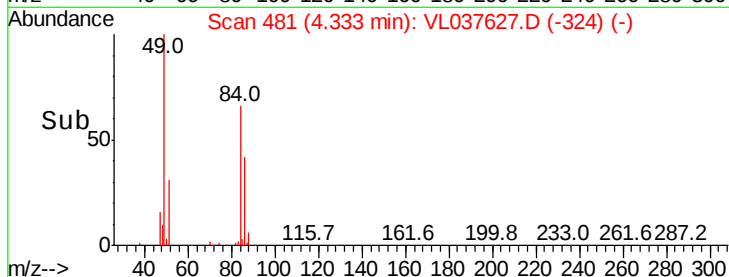
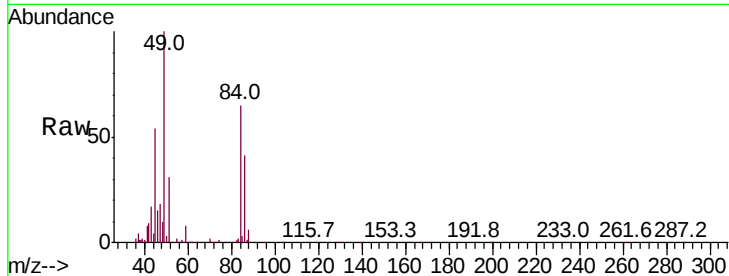
#20
Methvlene Chloride
Concen: 4.668 ppbv
RT: 4.33 min Scan# 481
Delta R.T. 0.00 min
Lab File: VL037627.D
Acq: 16 Sep 2021 22:45

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tot Ion	Ion	Ratio	Lower	Upper
84	100			
49	152.3	120.0	180.0	
51	47.3	38.0	57.0	
86	63.5	48.2	72.2	

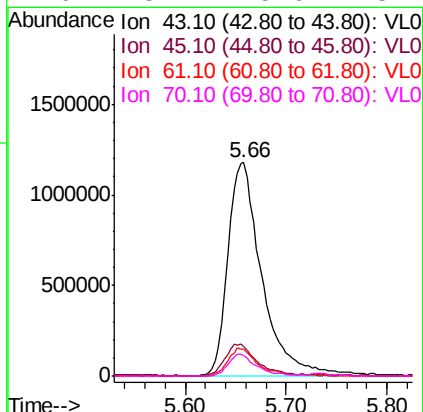
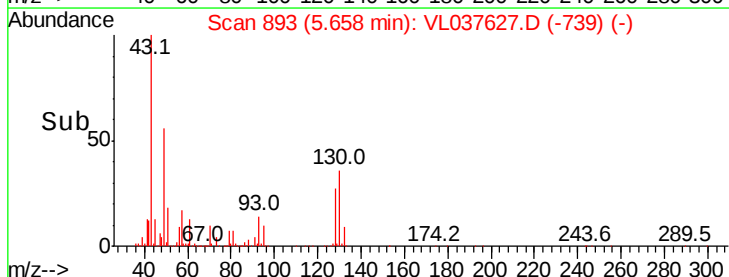
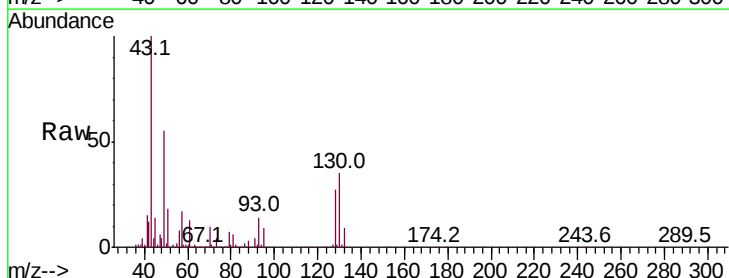
Manual Integrations
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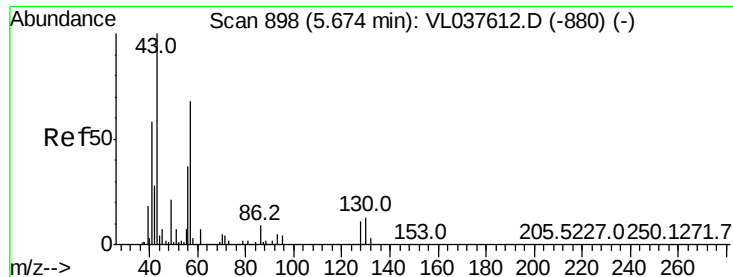
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#25
Ethyl Acetate
Concen: 6.830 ppbv
RT: 5.66 min Scan# 893
Delta R.T. -0.01 min
Lab File: VL037627.D
Acq: 16 Sep 2021 22:45

Tgt Ion	Ion	Ratio	Lower	Upper
43	100			
45	14.4	8.0	12.0#	
61	11.7	7.5	11.3#	
70	8.7	5.6	8.4#	





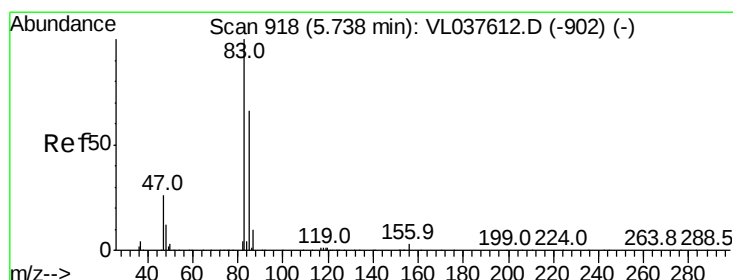
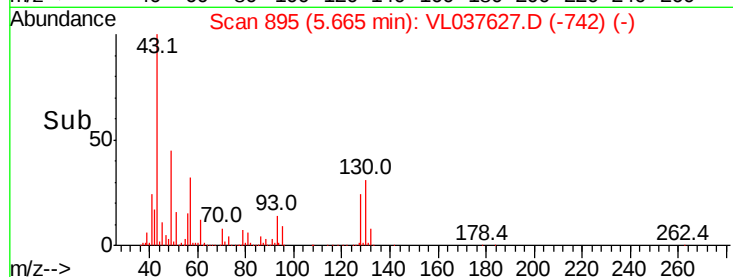
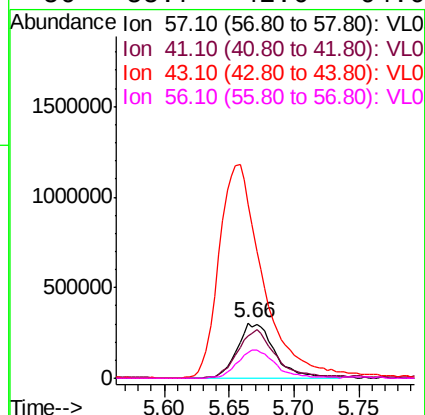
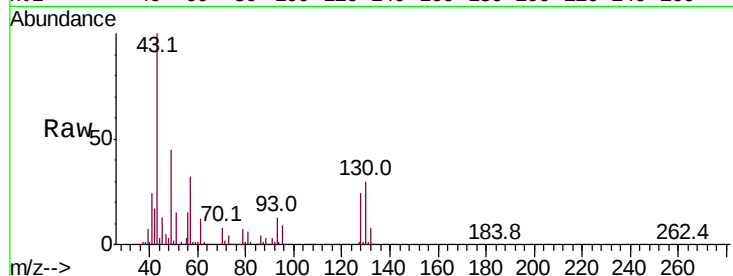
#26
Hexane
Concen: 3.193 ppbv m
RT: 5.66 min Scan# 895
Delta R.T. -0.01 min
Lab File: VL037627.D
Acq: 16 Sep 2021 22:45

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tot Ion	Ratio	Lower	Upper
57	100		
41	92.4	70.9	106.3
43	0.0	170.4	255.6#
56	55.7	42.6	64.0

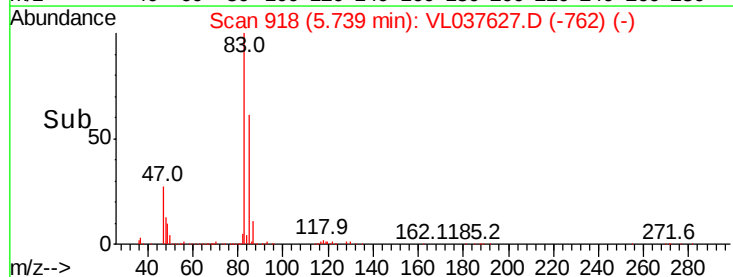
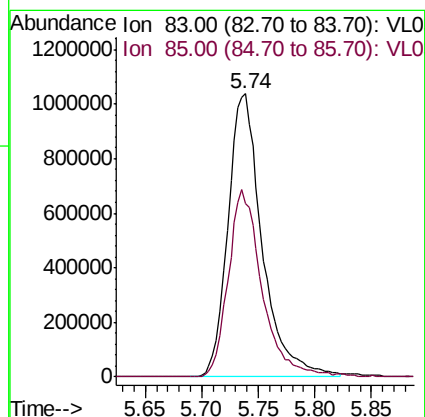
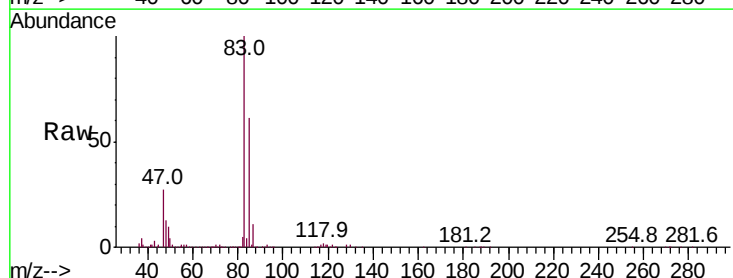
Manual Integrations
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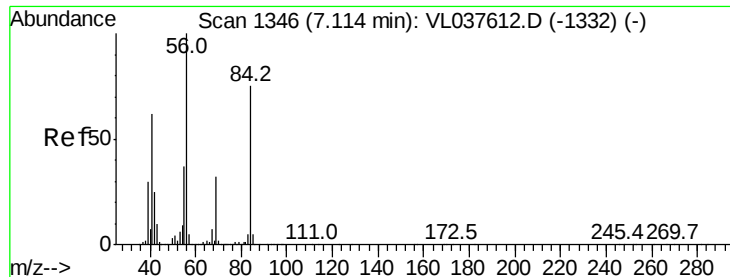
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#29
Chloroform
Concen: 7.835 ppbv
RT: 5.74 min Scan# 918
Delta R.T. 0.00 min
Lab File: VL037627.D
Acq: 16 Sep 2021 22:45

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.2	52.6	79.0





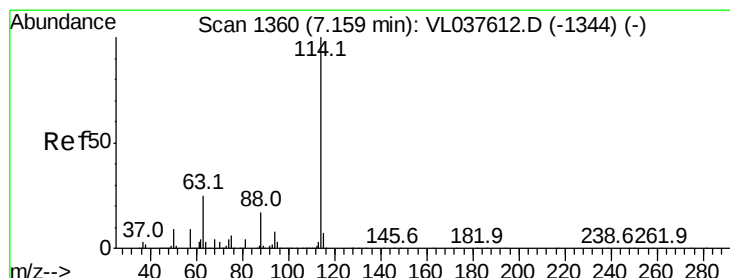
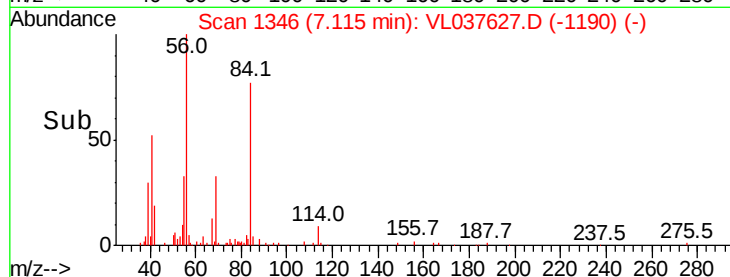
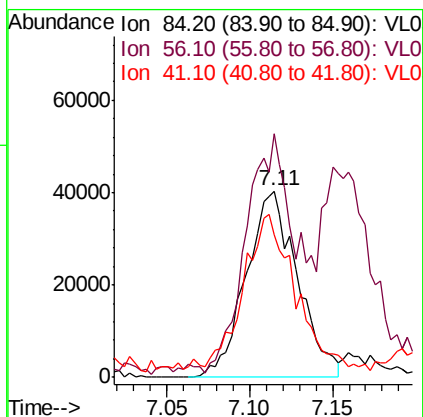
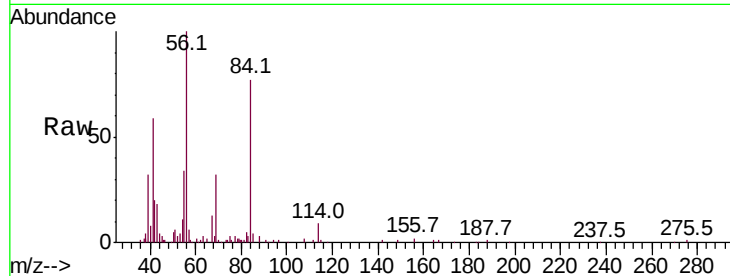
#30
Cvclohexane
Concen: 0.532 ppbv
RT: 7.11 min Scan# 1346
Delta R.T. 0.00 min
Lab File: VL037627.D
Acq: 16 Sep 2021 22:45

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tot Ion	Ratio	Lower	Upper
84	100		
56	110.6	113.6	170.4#
41	91.0	67.9	101.9

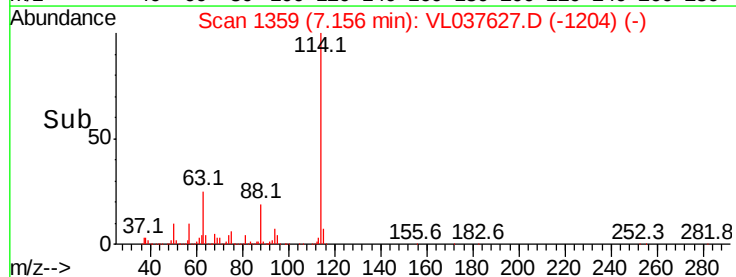
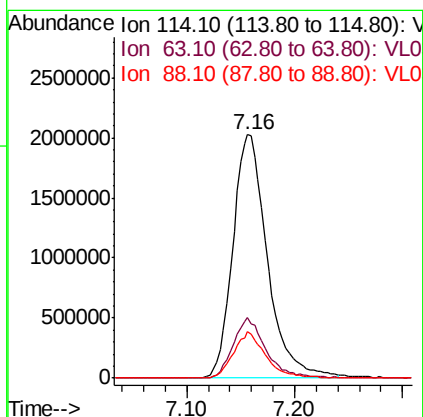
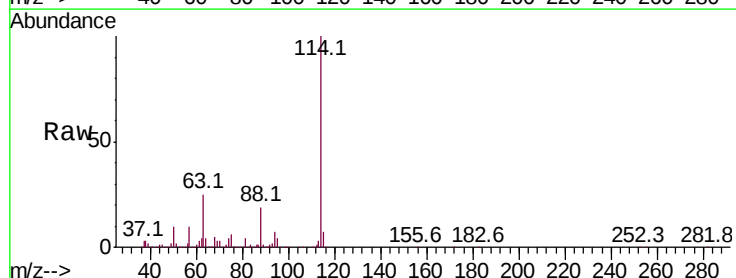
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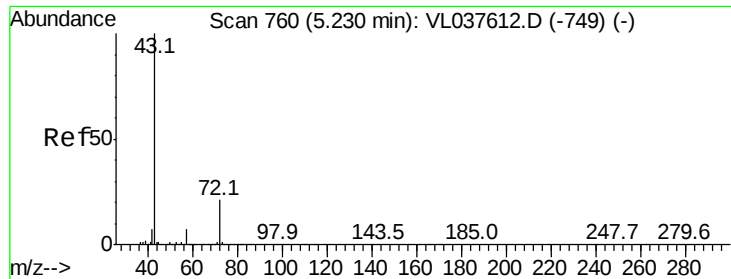
MMDadoda
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.00 min
Lab File: VL037627.D
Acq: 16 Sep 2021 22:45

Tgt Ion	Ratio	Lower	Upper
114	100		
63	23.8	19.6	29.4
88	18.0	14.2	21.4





#34

2-Butanone

Concen: 4.728 ppbv

RT: 5.23 min Scan# 759

Delta R.T. -0.00 min

Lab File: VL037627.D

Acq: 16 Sep 2021 22:45

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tot Ion: 43 Resp: 866126

Ion Ratio Lower Upper

43 100

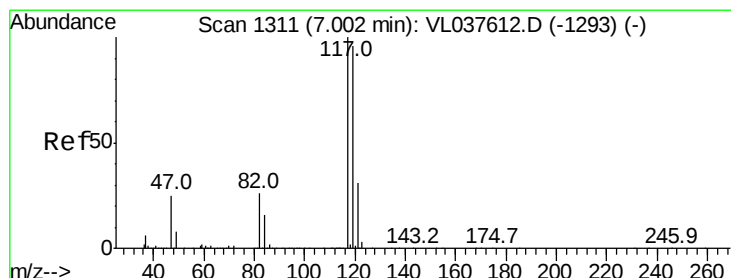
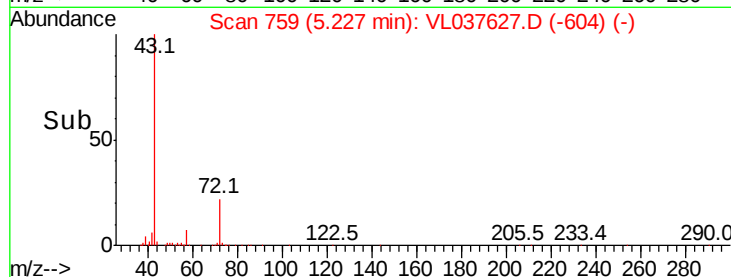
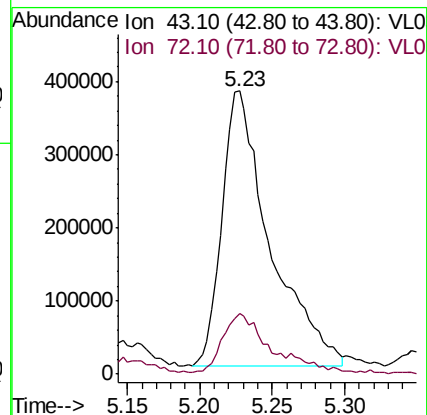
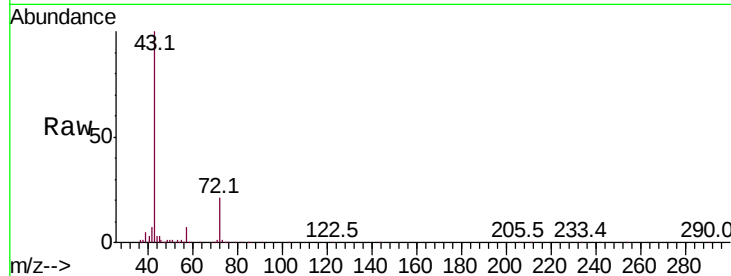
72 22.9 18.4 27.6

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#35

Carbon Tetrachloride

Concen: 0.075 ppbv m

RT: 7.00 min Scan# 1311

Delta R.T. 0.00 min

Lab File: VL037627.D

Acq: 16 Sep 2021 22:45

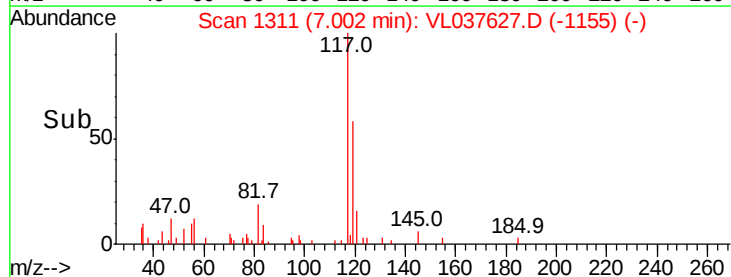
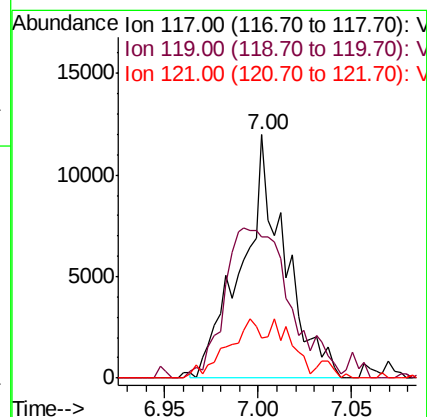
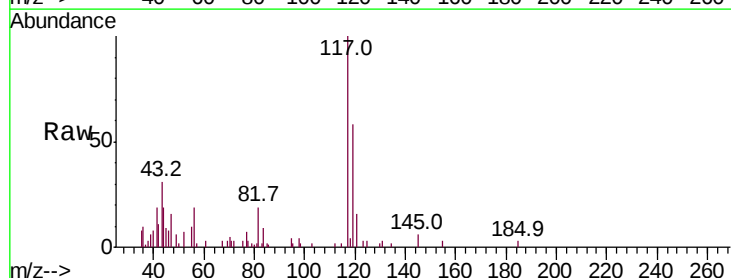
Tgt Ion: 117 Resp: 19186

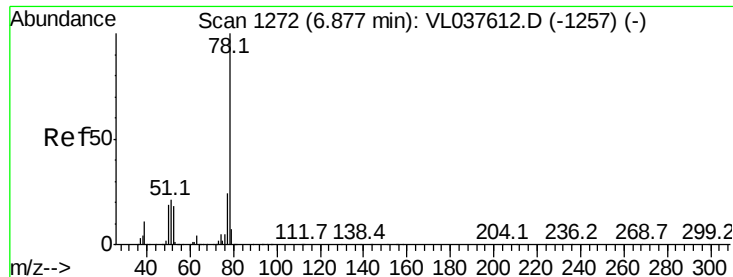
Ion Ratio Lower Upper

117 100

119 57.8 77.0 115.6#

121 16.5 24.5 36.7#





#36

Benzene

Concen: 1.249 ppbv

RT: 6.87 min Scan# 1270

Delta R.T. -0.01 min

Lab File: VL037627.D

Acq: 16 Sep 2021 22:45

Instrument :

MSVOA_L

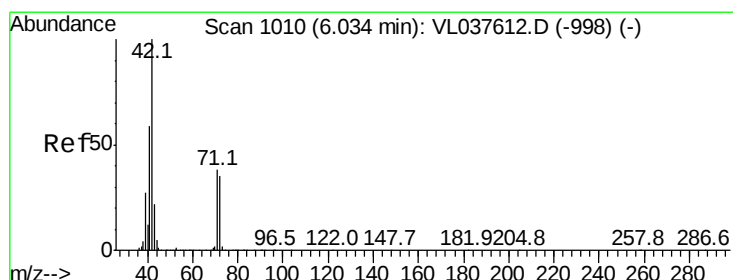
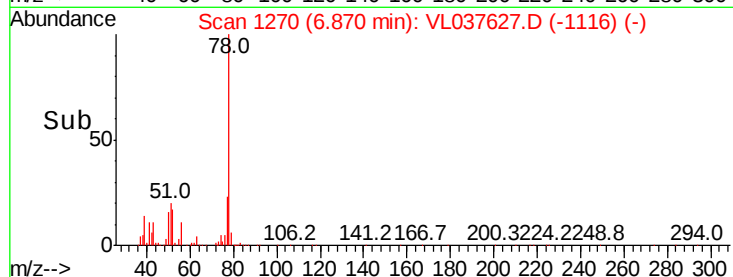
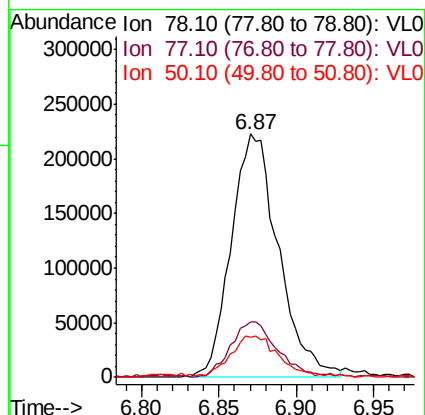
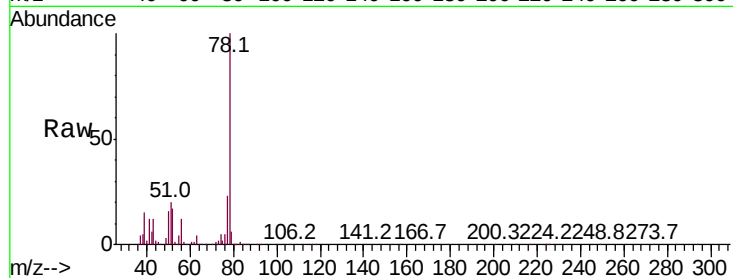
ClientSampleId :

IA1DUP

Tot Ion:	78	Resp:	469317
Ion Ratio	Lower	Upper	
78	100		
77	22.8	19.0	28.4
50	15.1	14.8	22.2

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#41

Tetrahydrofuran

Concen: 3.291 ppbv m

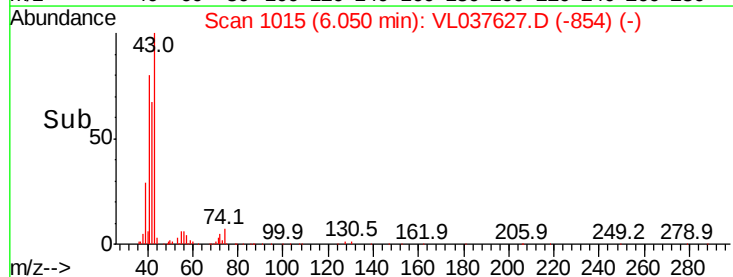
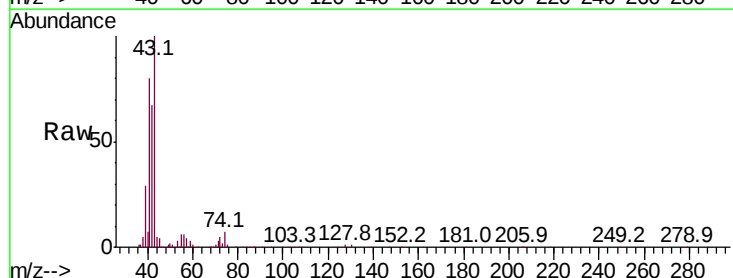
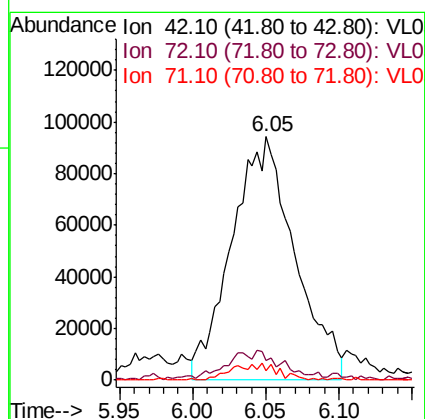
RT: 6.05 min Scan# 1015

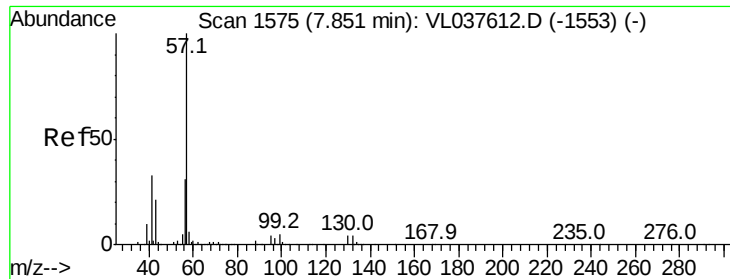
Delta R.T. 0.02 min

Lab File: VL037627.D

Acq: 16 Sep 2021 22:45

Tgt Ion:	42	Resp:	283390
Ion Ratio	Lower	Upper	
42	100		
72	11.7	31.4	47.2#
71	0.0	30.6	46.0#





#44

2,2,4-Trimethylpentane

Concen: 0.905 ppbv

RT: 7.85 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VL037627.D

Acq: 16 Sep 2021 22:45

Instrument :

MSVOA_L

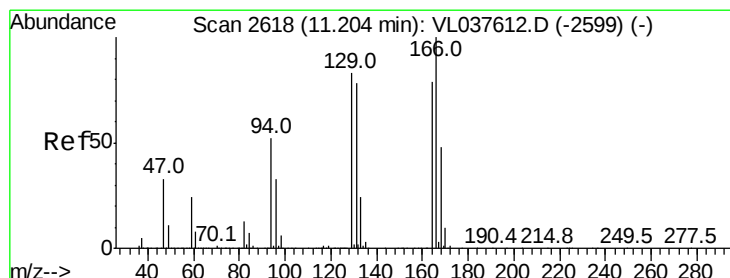
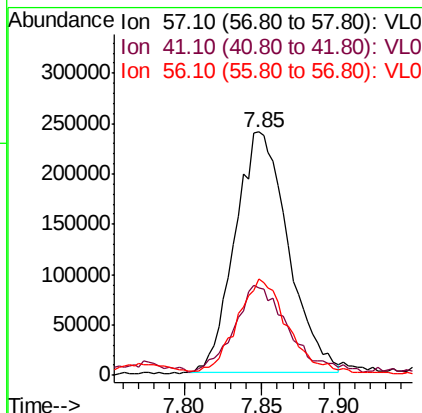
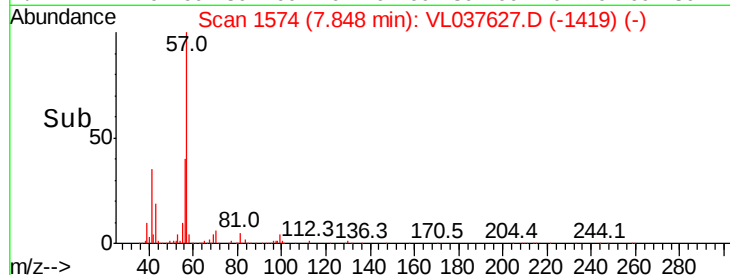
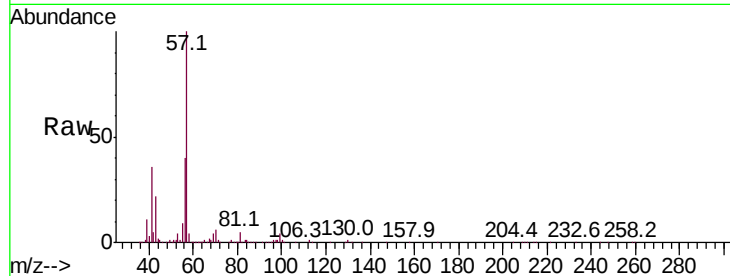
ClientSampleId :

IA1DUP

Tot Ion	Ratio	Lower	Upper
57	100		
41	39.1	26.1	39.1
56	39.9	25.7	38.5

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#52

Tetrachloroethene

Concen: 0.111 ppbv m

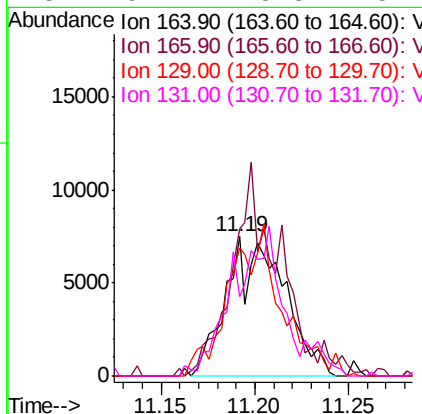
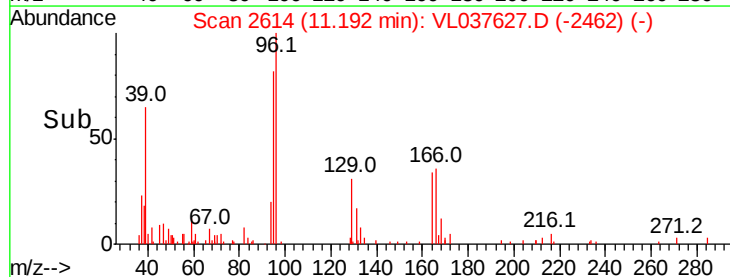
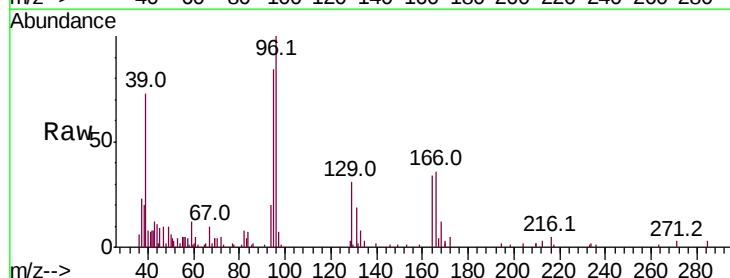
RT: 11.19 min Scan# 2614

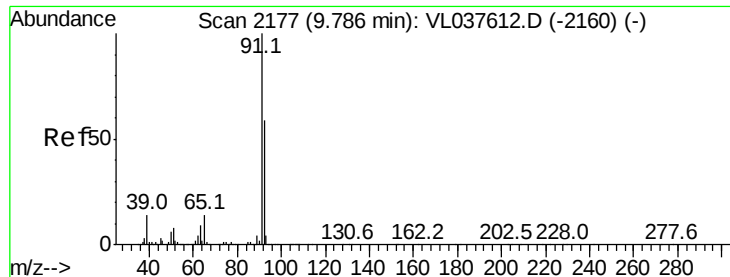
Delta R.T. -0.01 min

Lab File: VL037627.D

Acq: 16 Sep 2021 22:45

Tgt Ion	Ratio	Lower	Upper
164	100		
166	105.8	101.2	151.8
129	92.3	84.0	126.0
131	57.4	78.8	118.2





#53

Toluene

Concen: 5.773 ppbv

RT: 9.78 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VL037627.D

Acq: 16 Sep 2021 22:45

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tot Ion: 91 Resp: 2411889

Ion Ratio Lower Upper

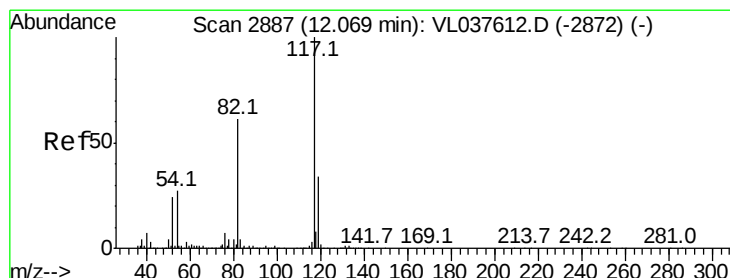
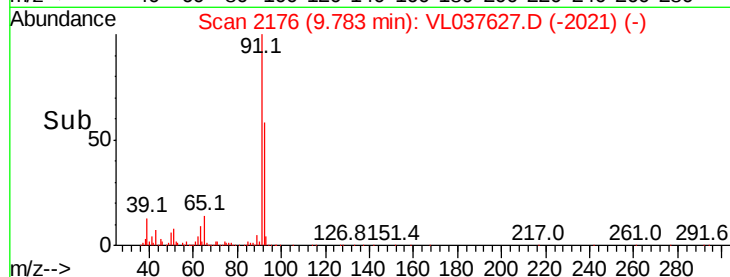
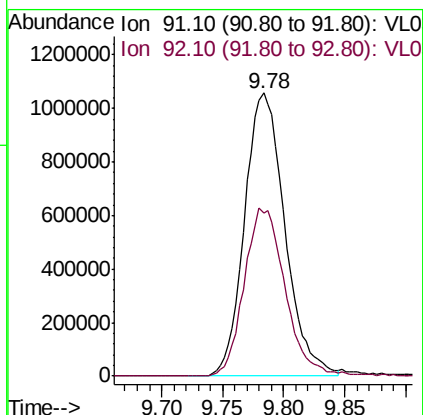
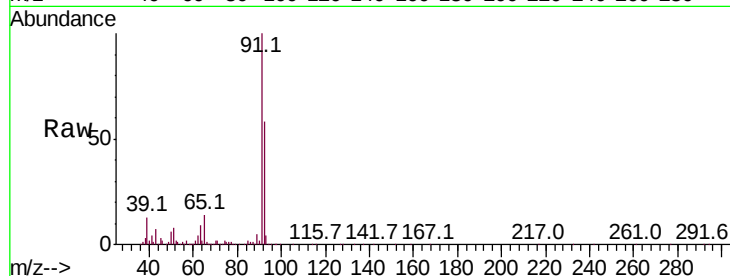
91 100

92 60.6 48.9 73.3

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2887

Delta R.T. 0.00 min

Lab File: VL037627.D

Acq: 16 Sep 2021 22:45

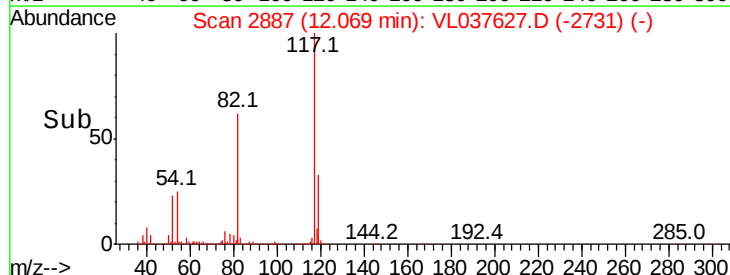
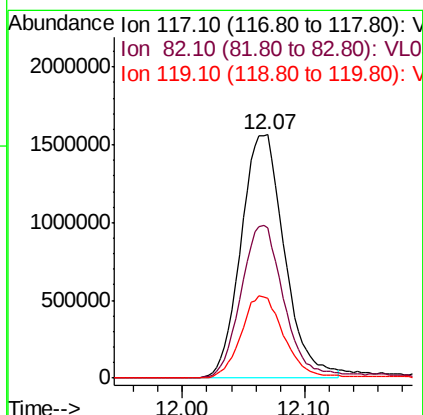
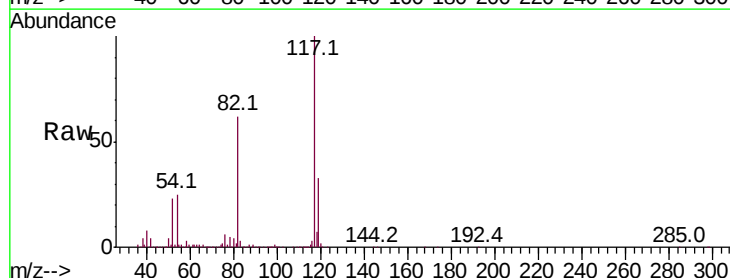
Tgt Ion: 117 Resp: 3862548

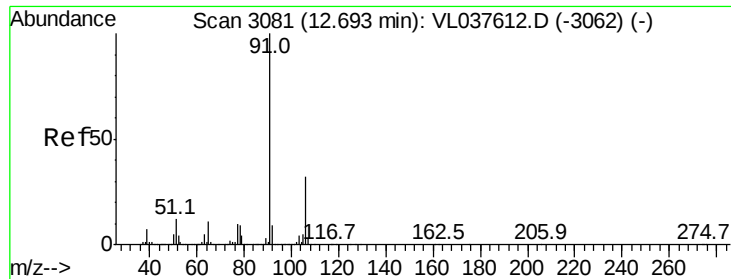
Ion Ratio Lower Upper

117 100

82 65.5 50.6 75.8

119 34.5 26.2 39.2





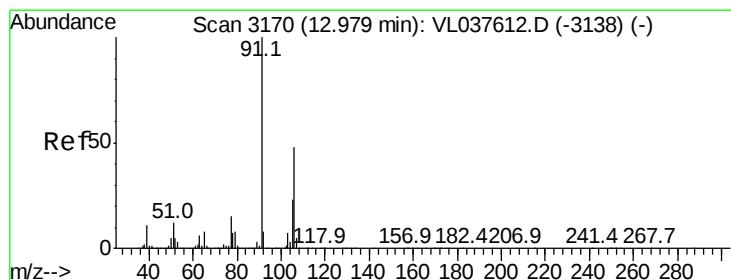
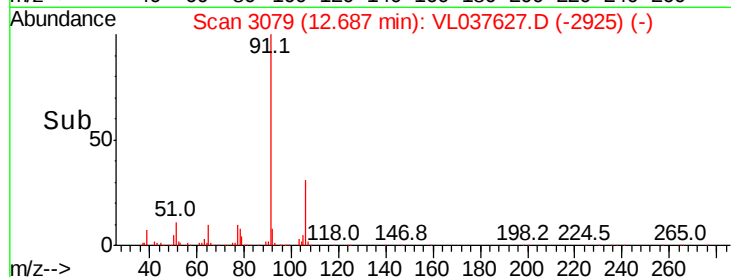
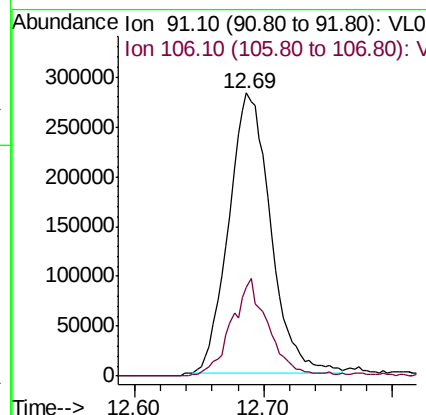
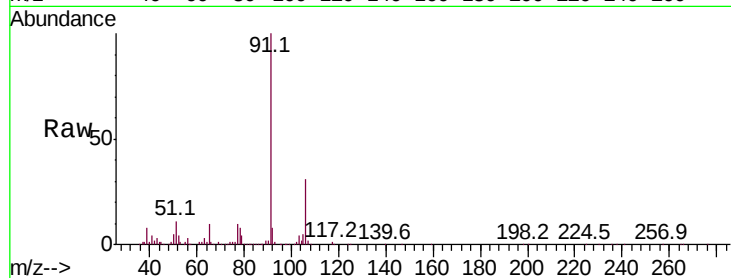
#58
Ethyl Benzene
Concen: 1.237 ppbv
RT: 12.69 min Scan# 3079
Delta R.T. -0.01 min
Lab File: VL037627.D
Acq: 16 Sep 2021 22:45

Instrument :
MSVOA_L
ClientSampled :
IA1DUP

Tot Ion	Ratio	Lower	Upper
91	100		
106	30.9	25.3	37.9

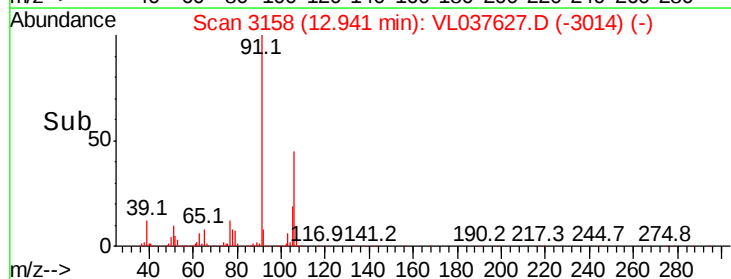
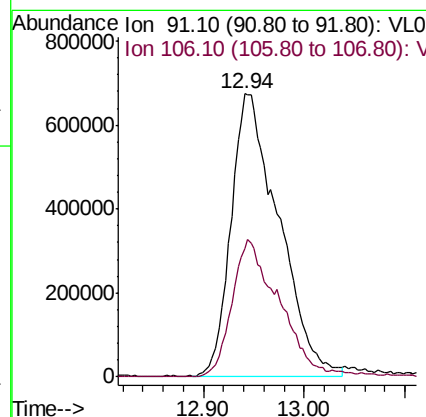
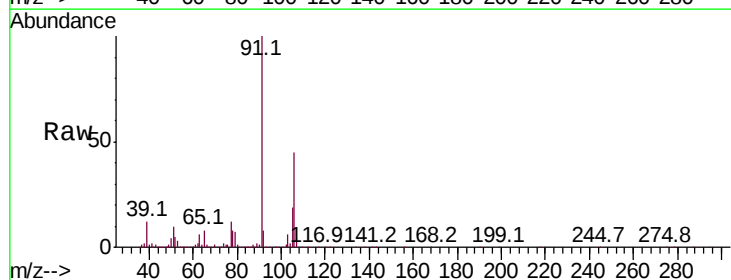
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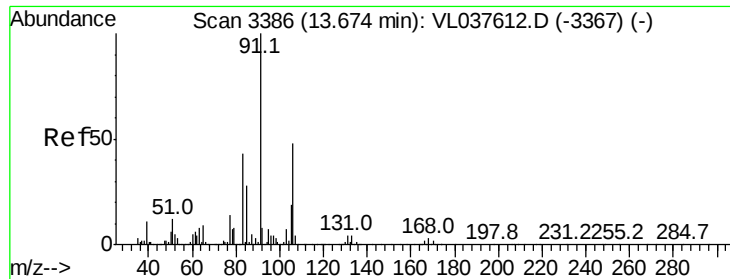
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#59
m/p-Xylene
Concen: 4.946 ppbv
RT: 12.94 min Scan# 3158
Delta R.T. -0.04 min
Lab File: VL037627.D
Acq: 16 Sep 2021 22:45

Tgt Ion	Ratio	Lower	Upper
91	100		
106	49.2	36.6	55.0





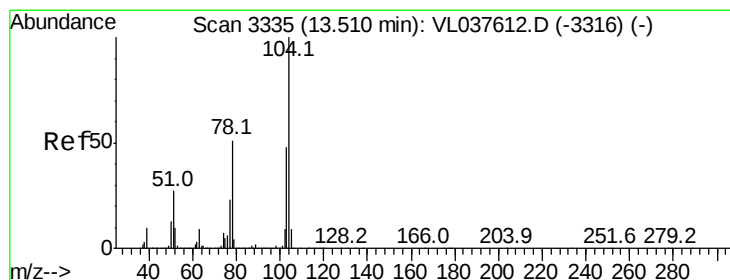
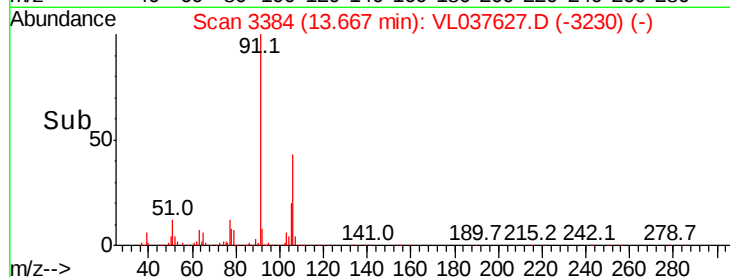
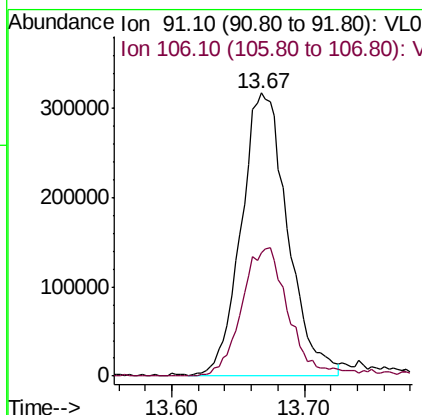
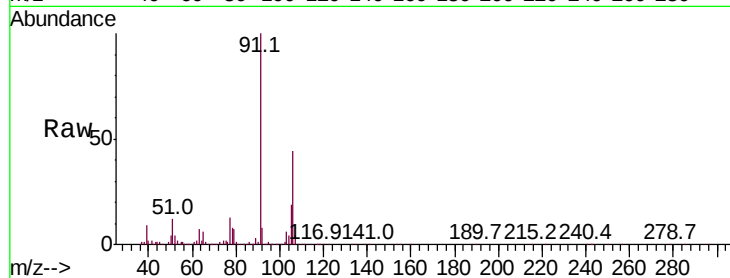
#60
o-Xylene
Concen: 1.806 ppbv
RT: 13.67 min Scan# 3384
Delta R.T. -0.01 min
Lab File: VL037627.D
Acq: 16 Sep 2021 22:45

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tot Ion	Ratio	Lower	Upper
91	100		
106	46.0	23.0	69.0

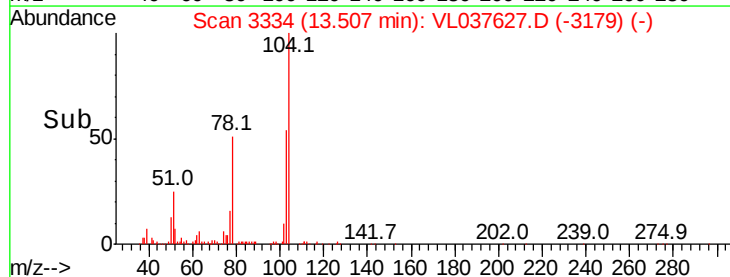
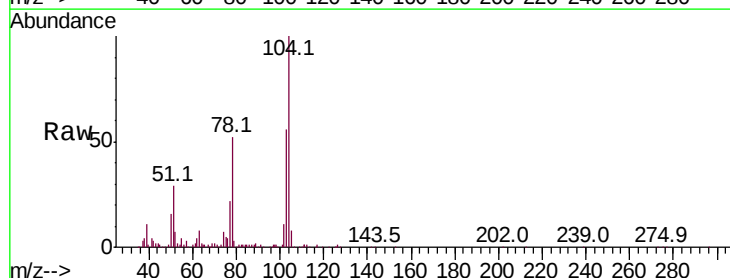
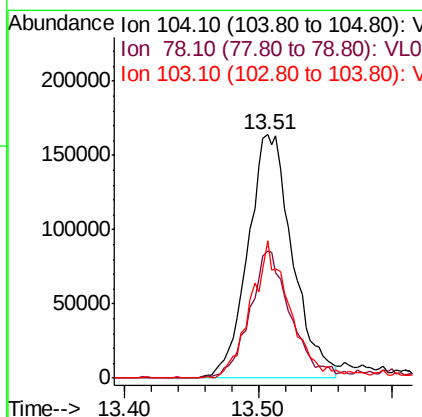
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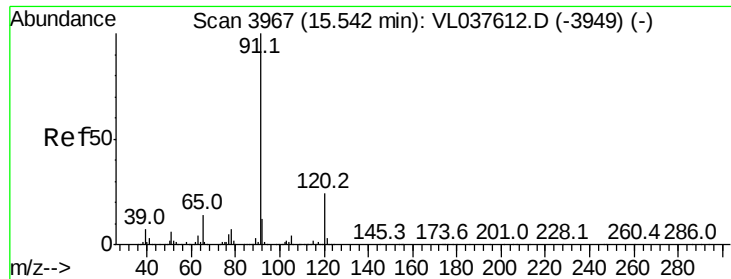
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#61
Styrene
Concen: 1.801 ppbv m
RT: 13.51 min Scan# 3334
Delta R.T. -0.00 min
Lab File: VL037627.D
Acq: 16 Sep 2021 22:45

Tgt Ion	Ratio	Lower	Upper
104	100		
78	48.7	39.7	59.5
103	51.3	38.8	58.2





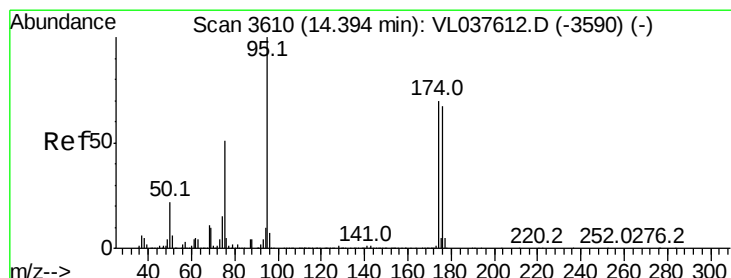
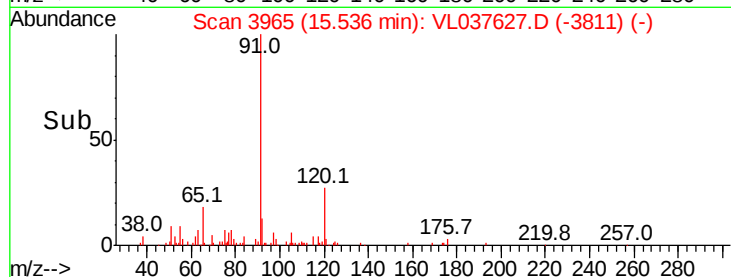
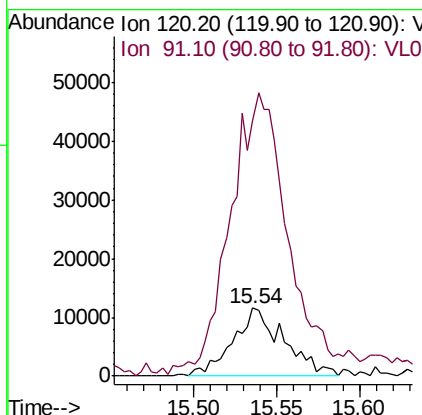
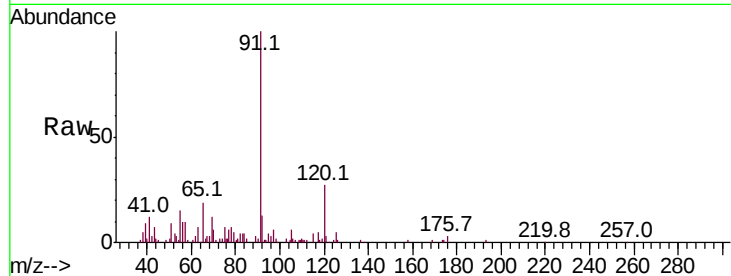
#64
n-propylbenzene
Concen: 0.162 ppbv m
RT: 15.54 min Scan# 3965
Delta R.T. -0.01 min
Lab File: VL037627.D
Acq: 16 Sep 2021 22:45

Instrument :
MSVOA_L
ClientSampled :
IA1DUP

Tot Ion:120 Resp: 24904
Ion Ratio Lower Upper
120 100
91 509.8 345.0 517.4

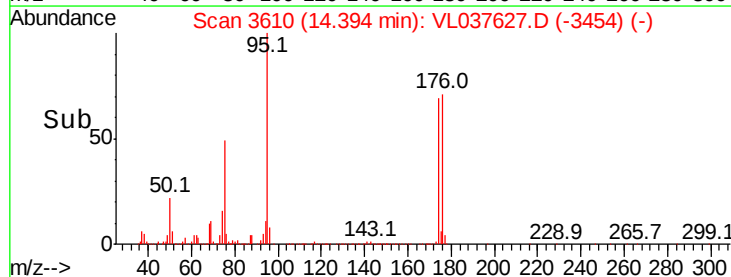
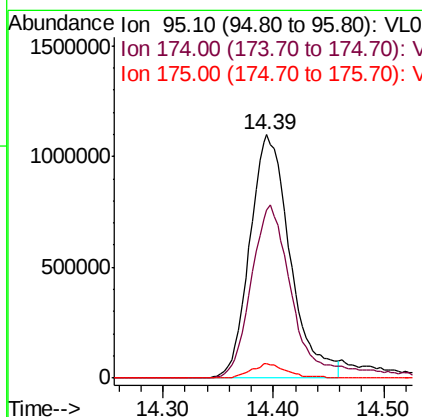
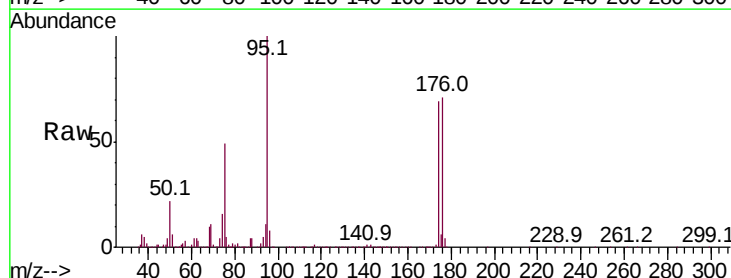
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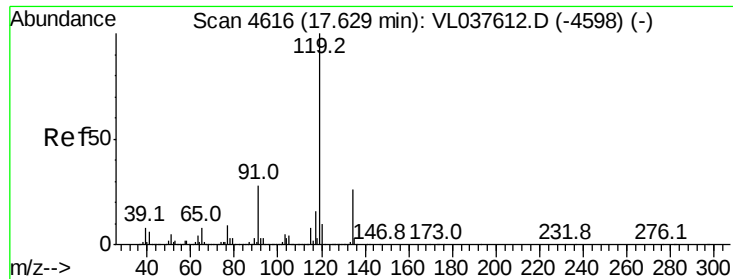
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.980 ppbv
RT: 14.39 min Scan# 3610
Delta R.T. 0.00 min
Lab File: VL037627.D
Acq: 16 Sep 2021 22:45

Tgt Ion: 95 Resp: 2785905
Ion Ratio Lower Upper
95 100
174 75.8 56.3 84.5
175 5.3 4.4 6.6





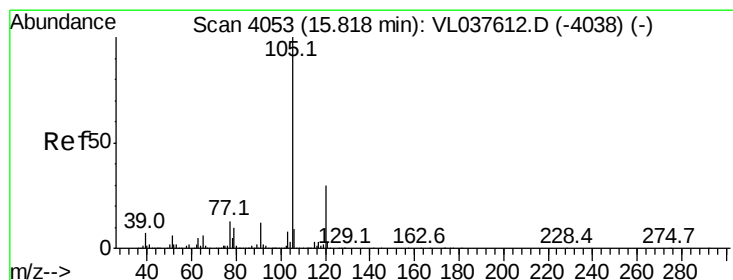
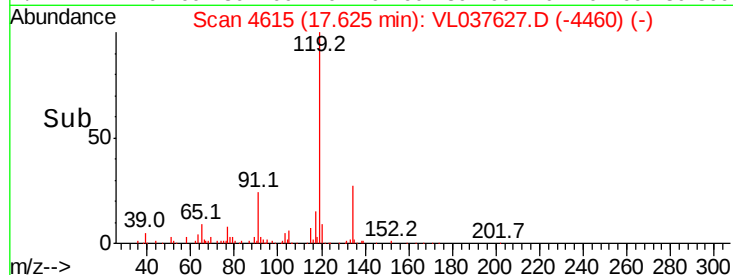
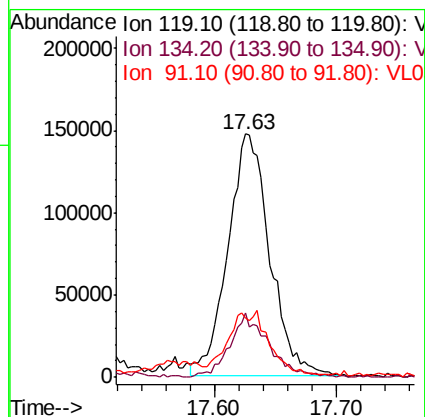
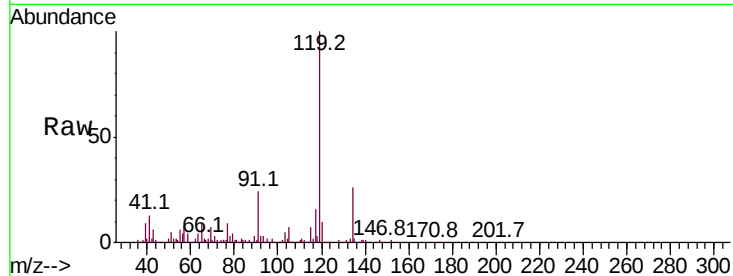
#69
p-Isopropyltoluene
Concen: 0.590 ppbv
RT: 17.63 min Scan# 4615
Delta R.T. -0.00 min
Lab File: VL037627.D
Acq: 16 Sep 2021 22:45

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tot Ion:	119	Resp:	350109
Ion Ratio	Lower	Upper	
119	100		
134	25.1	21.2	31.8
91	26.6	22.2	33.2

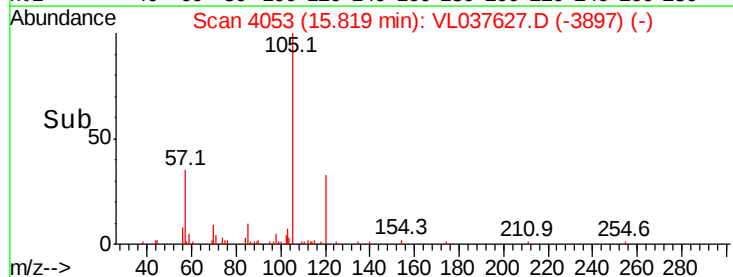
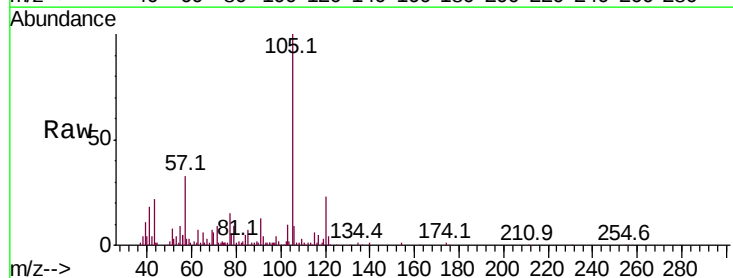
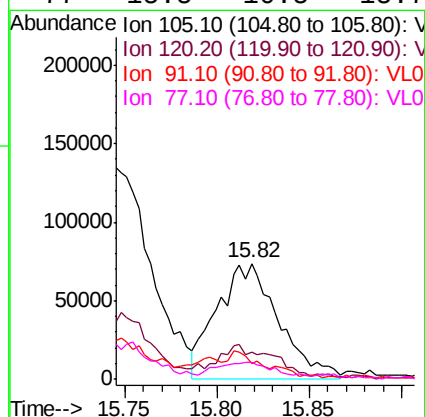
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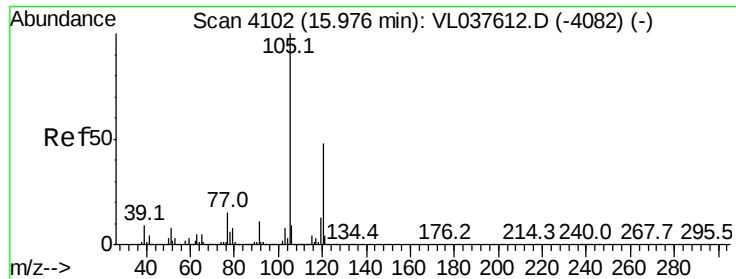
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#72
4-Ethyltoluene
Concen: 0.352 ppbv m
RT: 15.82 min Scan# 4053
Delta R.T. 0.00 min
Lab File: VL037627.D
Acq: 16 Sep 2021 22:45

Tgt Ion:	105	Resp:	171638
Ion Ratio	Lower	Upper	
105	100		
120	0.0	24.7	37.1#
91	0.0	9.9	14.9#
77	15.5	10.5	15.7





#73

1,3,5-Trimethylbenzene

Concen: 0.316 ppbv m

RT: 15.98 min Scan# 4103

Delta R.T. 0.00 min

Lab File: VL037627.D

Acq: 16 Sep 2021 22:45

Instrument :

MSVOA_L

ClientSampled :

IA1DUP

Tot Ion:105 Resp: 143859

Ion Ratio Lower Upper

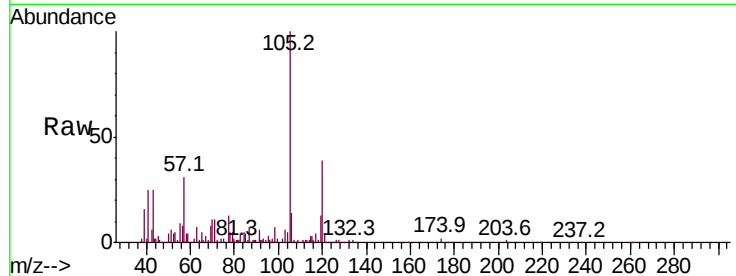
105 100

120 38.8 38.3 57.5

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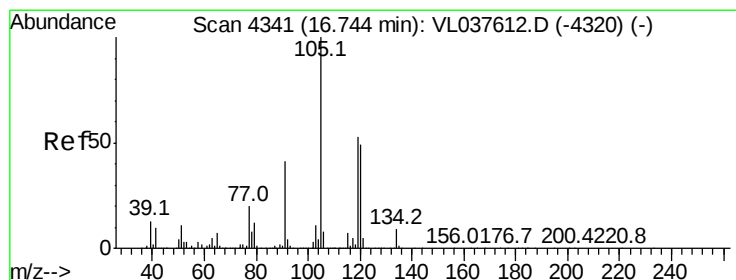
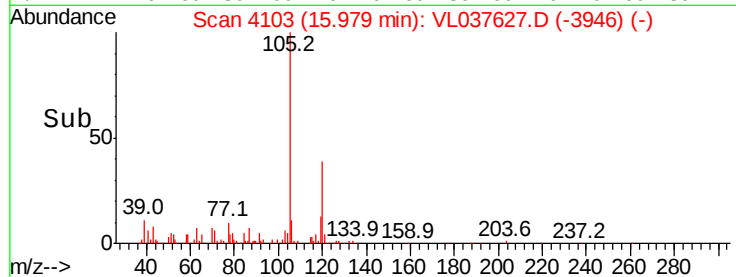
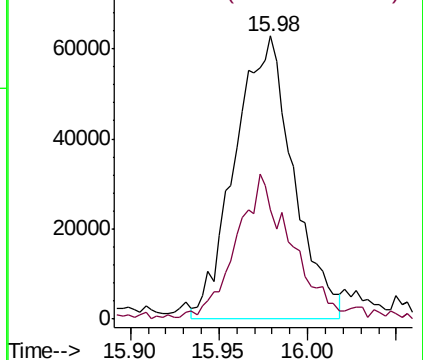
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9/20/2021 5:27:26 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 1.024 ppbv

RT: 16.73 min Scan# 4338

Delta R.T. -0.01 min

Lab File: VL037627.D

Acq: 16 Sep 2021 22:45

Tgt Ion:105 Resp: 490637

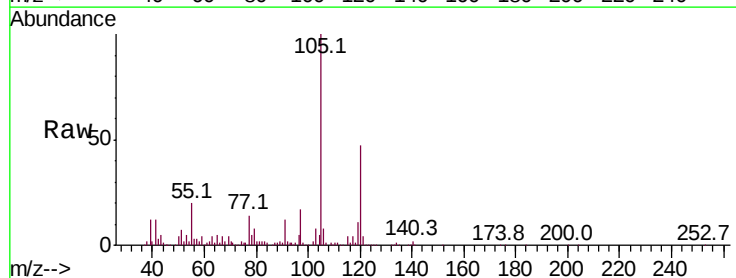
Ion Ratio Lower Upper

105 100

120 46.7 39.4 59.0

91 11.0 33.3 49.9#

77 13.2 15.7 23.5#

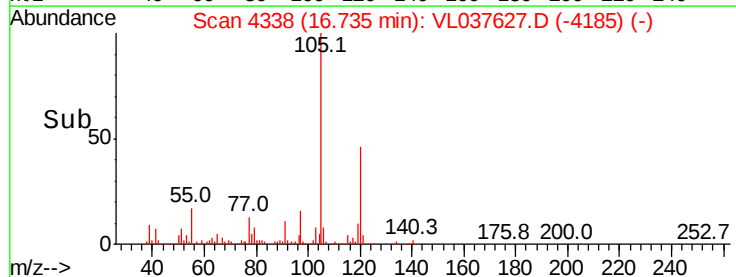
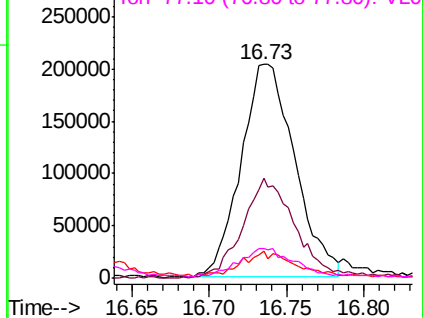


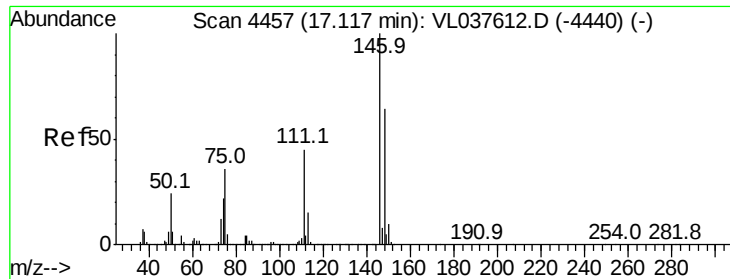
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





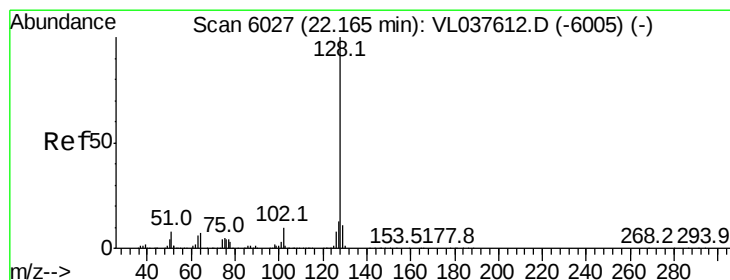
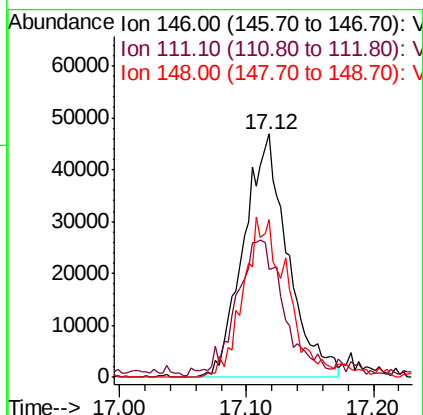
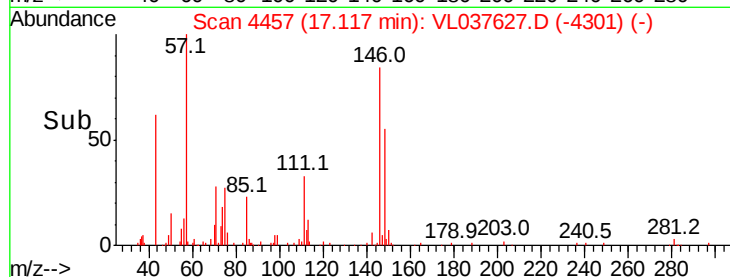
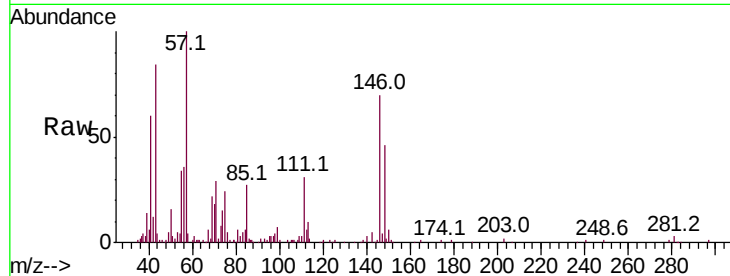
#76
 1,4-Dichlorobenzene
 Concen: 0.386 ppbv m
 RT: 17.12 min Scan# 4457
 Delta R.T. 0.00 min
 Lab File: VL037627.D
 Acq: 16 Sep 2021 22:45

Instrument :
 MSVOA_L
 ClientSampled :
 IA1DUP

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	22.5	67.5#
148	0.0	32.9	98.6#

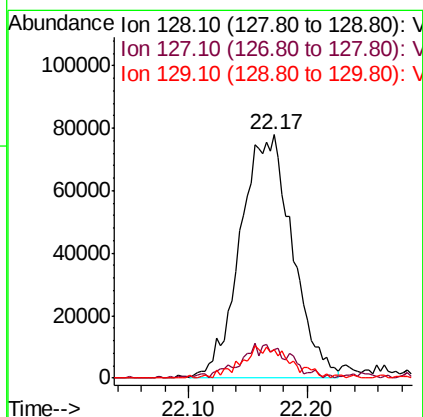
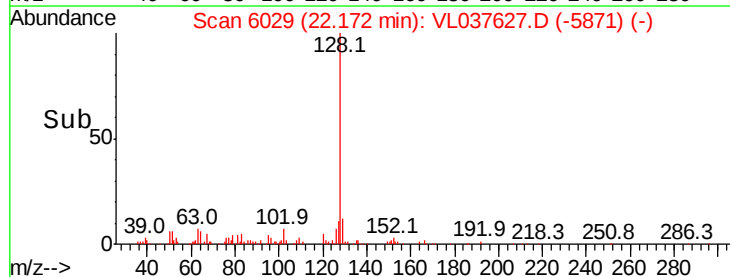
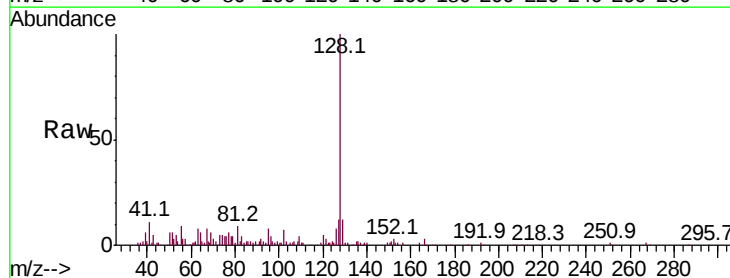
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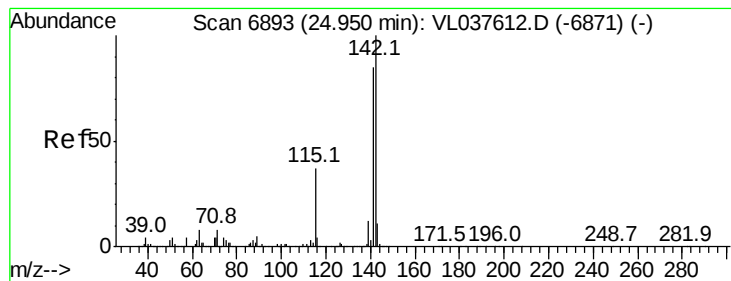
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#79
 Naphthalene
 Concen: 0.807 ppbv m
 RT: 22.17 min Scan# 6029
 Delta R.T. 0.01 min
 Lab File: VL037627.D
 Acq: 16 Sep 2021 22:45

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.0	10.6	16.0
129	11.7	8.6	12.8





#80

Naphthalene, 2-methyl-

Concen: 0.399 ppbv m

RT: 24.94 min Scan# 6891

Delta R.T. -0.01 min

Lab File: VL037627.D

Acq: 16 Sep 2021 22:45

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tot Ion	Ratio	Lower	Upper
142	100		
141	93.9	70.9	106.3
115	45.9	29.6	44.4#

Manual Integrations
APPROVED

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