

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040821\
 Data File : VL036756.D
 Acq On : 8 Apr 2021 18:40
 Operator : SY/AP
 Sample : M1981-03DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-2DL

Manual Integrations
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 4/12/2021 11:47:07 AM

Quant Time: Apr 09 12:20:30 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 2
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1480359	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3583690	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2960578	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2127545	9.02	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	90.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.25	62	148117	1.474	ppbv	99
9) Propene	3.01	41	235739	2.674	ppbv	92
10) Heptane	8.12	43	248921	1.108	ppbv	96
13) Ethanol	3.61	45	47060m	4.482	ppbv	
15) Acetone	3.84	43	2145776	14.727	ppbv	99
20) Methylene Chloride	4.34	84	439254	6.439	ppbv	94
22) trans-1,2-Dichloroethene	4.88	96	16120m	0.248	ppbv	
26) Hexane	5.68	57	534644	3.326	ppbv #	48
27) Carbon Disulfide	4.55	76	101648m	0.642	ppbv	
30) Cyclohexane	7.12	84	148704	1.141	ppbv	89
31) cis-1,2-Dichloroethene	5.55	61	356134	2.291	ppbv	98
34) 2-Butanone	5.24	43	233806	1.337	ppbv	95
36) Benzene	6.89	78	258077	0.781	ppbv	98
38) Trichloroethene	7.83	130	501315	3.897	ppbv	94
44) 2,2,4-Trimethylpentane	7.87	57	3005170	5.166	ppbv #	75
52) Tetrachloroethene	11.23	164	6586m	0.054	ppbv	
53) Toluene	9.80	91	199908m	0.568	ppbv	
58) Ethyl Benzene	12.71	91	233544	0.542	ppbv	95
59) m/p-Xylene	12.96	91	538500	1.433	ppbv	95
60) o-Xylene	13.69	91	507562m	1.397	ppbv	
62) Isopropylbenzene	14.67	105	123609m	0.253	ppbv	
67) sec-Butylbenzene	17.29	105	77584	0.130	ppbv	98
69) p-Isopropyltoluene	17.66	119	116610	0.249	ppbv #	89
72) 4-Ethyltoluene	15.84	105	161675m	0.406	ppbv	
73) 1,3,5-Trimethylbenzene	16.00	105	247795	0.667	ppbv	95
74) 1,2,4-Trimethylbenzene	16.76	105	373734m	0.940	ppbv	

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

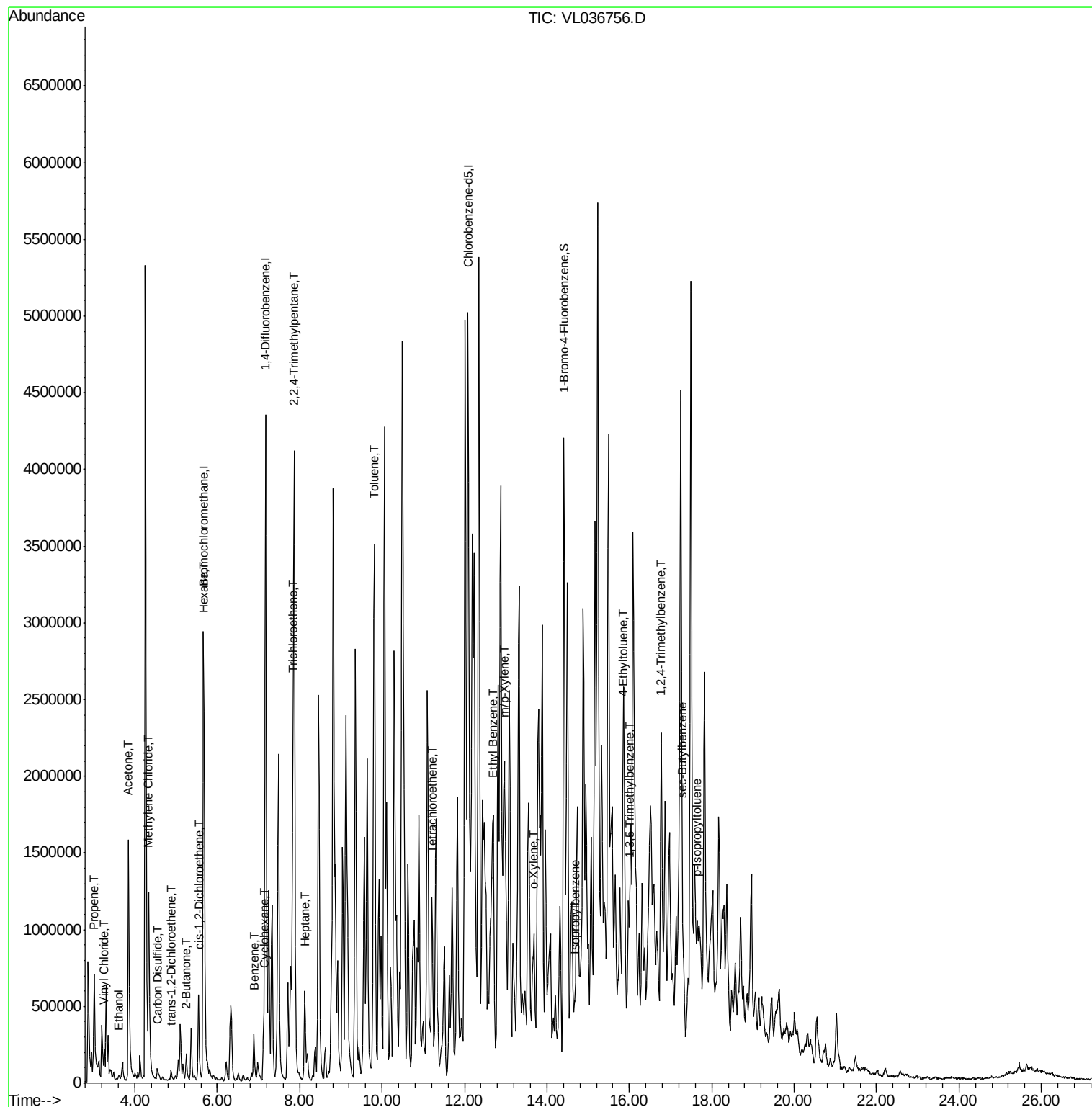
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL040821\
Data File : VL036756.D
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ALS Vial : 1 Sample Multiplier: 1

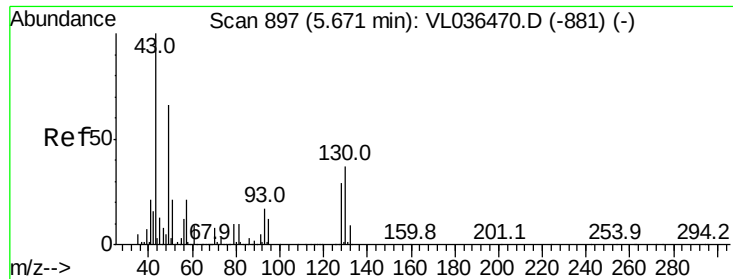
Instrument :
MSVOA_L
ClientSampleId :
SG-2DL

Manual Integrations
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4/12/2021 11:47:07 AM

Quant Time: Apr 09 12:20:30 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar
QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.01 min

Lab File: VL036756.D

Acq: 8 Apr 2021 18:40

Instrument :

MSVOA_L

ClientSampled :

SG-2DL

Tot Ion: 49 Resp: 1480359

Ion Ratio Lower Upper

49 100

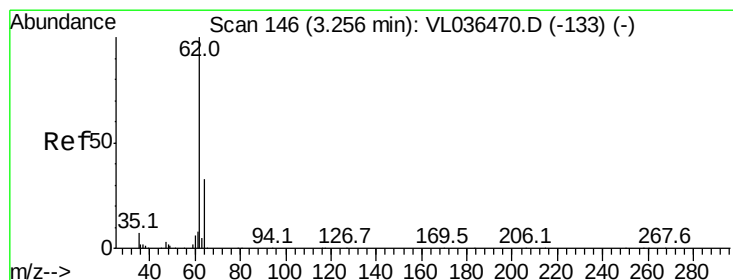
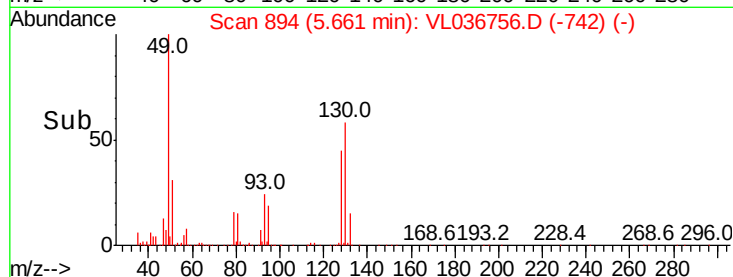
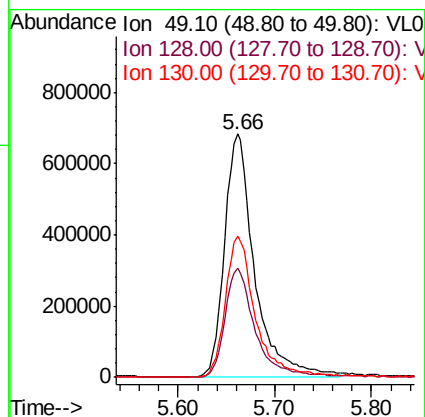
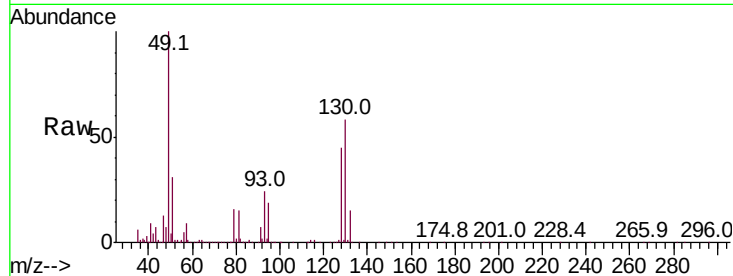
128 45.9 23.5 70.6

130 58.4 29.1 87.4

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#5

Vinyl Chloride

Concen: 1.474 ppbv

RT: 3.25 min Scan# 145

Delta R.T. -0.00 min

Lab File: VL036756.D

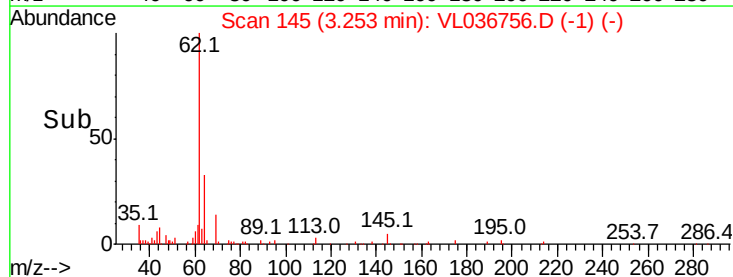
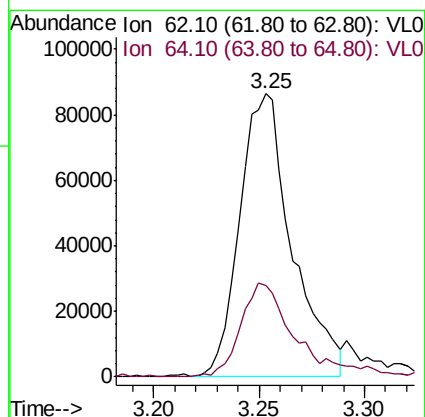
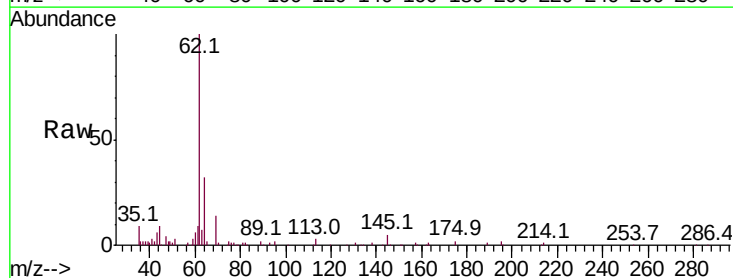
Acq: 8 Apr 2021 18:40

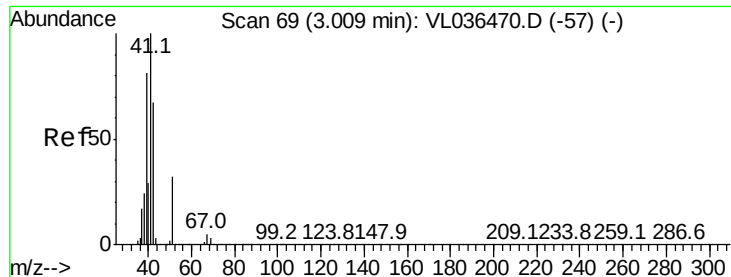
Tgt Ion: 62 Resp: 148117

Ion Ratio Lower Upper

62 100

64 32.2 26.4 39.6





#9

Propene

Concen: 2.674 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.00 min

Lab File: VL036756.D

Acq: 8 Apr 2021 18:40

Instrument :

MSVOA_L

ClientSampleId :

SG-2DL

Tot Ion: 41 Resp: 235739

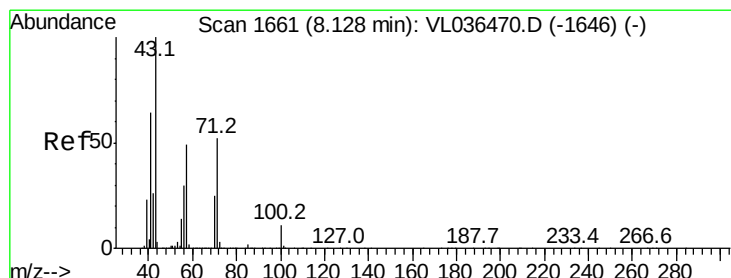
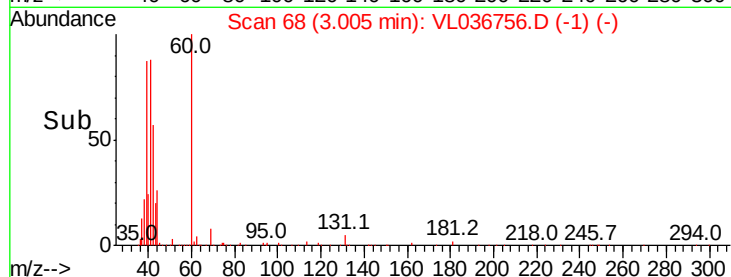
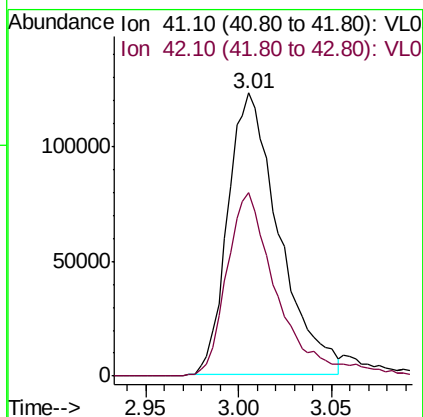
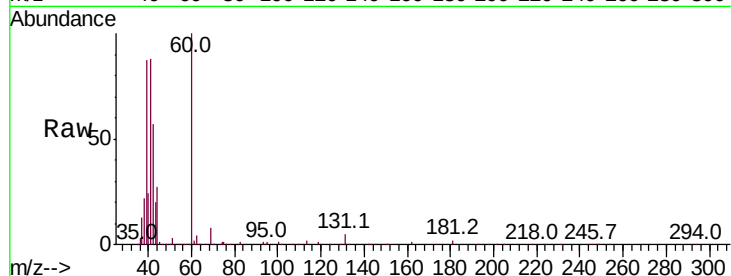
Ion Ratio Lower Upper

41 100

42 64.8 57.0 85.4

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#10

Heptane

Concen: 1.108 ppbv

RT: 8.12 min Scan# 1658

Delta R.T. -0.01 min

Lab File: VL036756.D

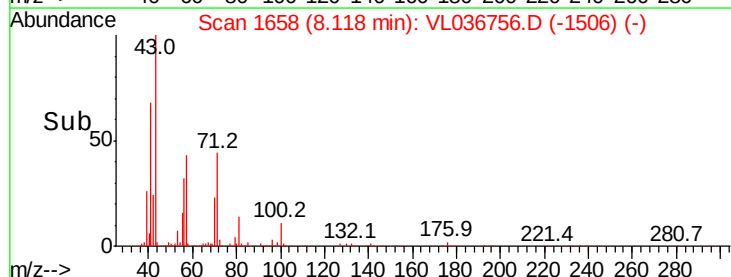
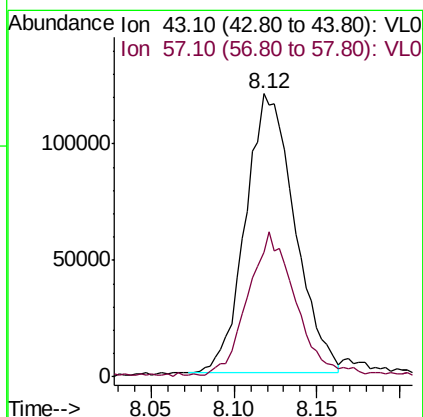
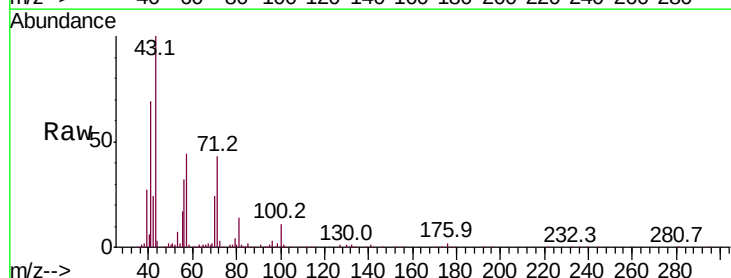
Acq: 8 Apr 2021 18:40

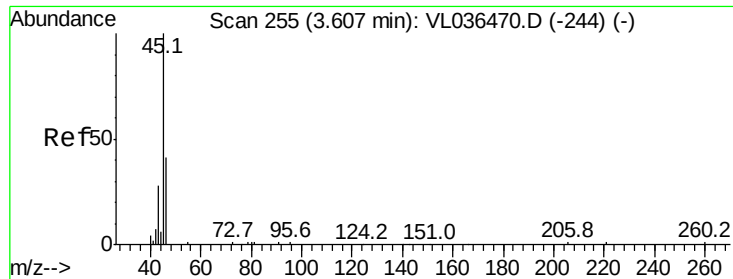
Tgt Ion: 43 Resp: 248921

Ion Ratio Lower Upper

43 100

57 51.3 39.0 58.6





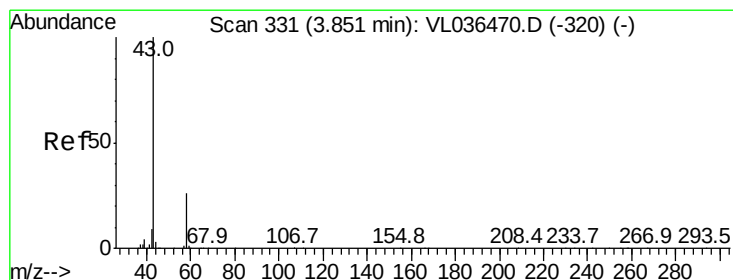
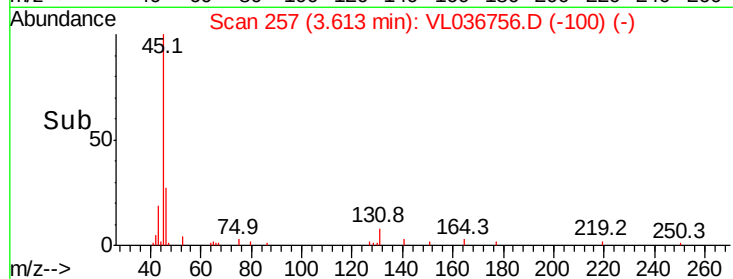
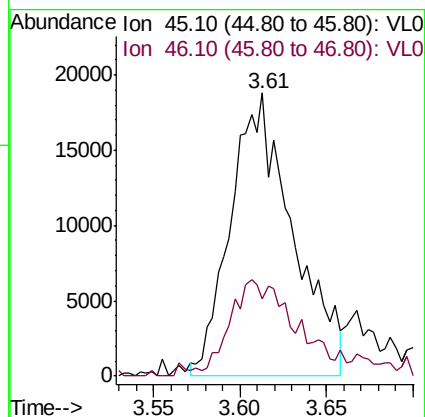
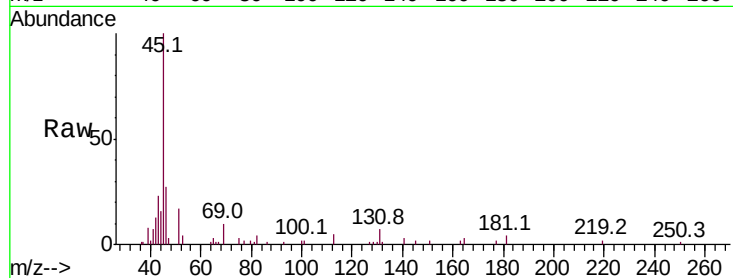
#13
Ethanol
Concen: 4.482 ppbv m
RT: 3.61 min Scan# 257
Delta R.T. 0.01 min
Lab File: VL036756.D
Acq: 8 Apr 2021 18:40

Instrument :
MSVOA_L
ClientSampled :
SG-2DL

Tot Ion: 45 Resp: 47060
Ion Ratio Lower Upper
45 100
46 41.5 16.6 66.2

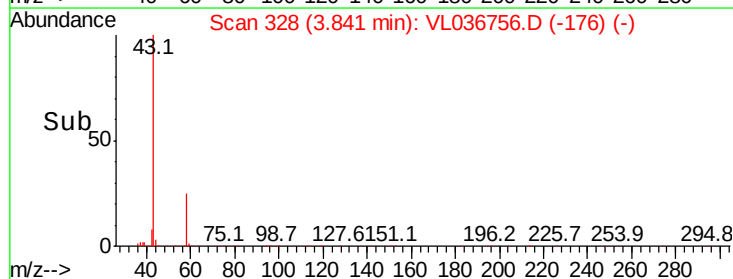
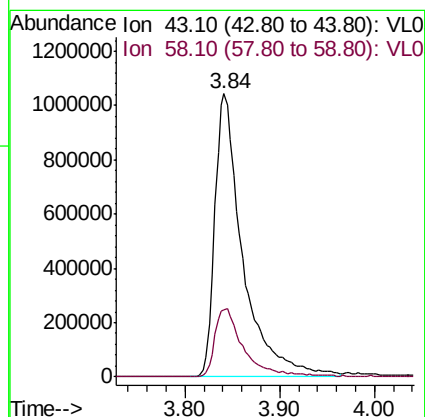
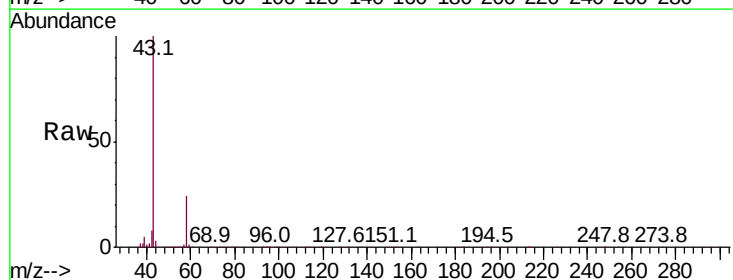
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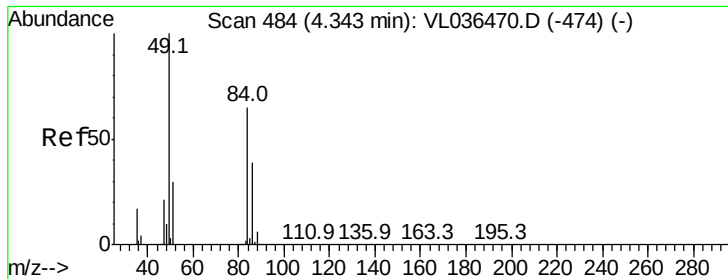
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#15
Acetone
Concen: 14.727 ppbv
RT: 3.84 min Scan# 328
Delta R.T. -0.01 min
Lab File: VL036756.D
Acq: 8 Apr 2021 18:40

Tgt Ion: 43 Resp: 2145776
Ion Ratio Lower Upper
43 100
58 25.8 21.2 31.8





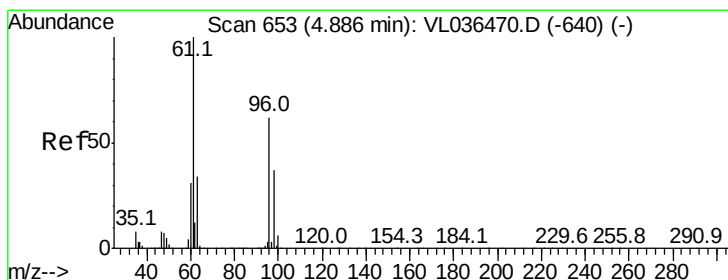
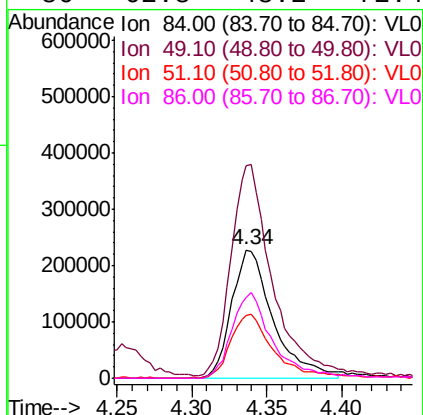
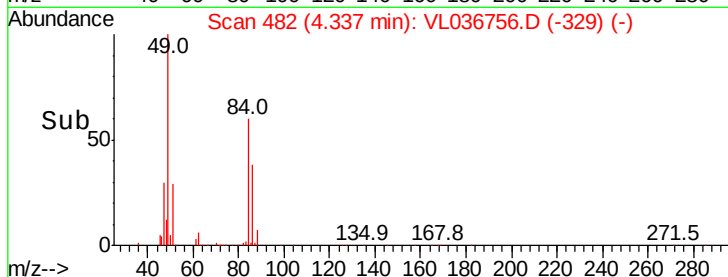
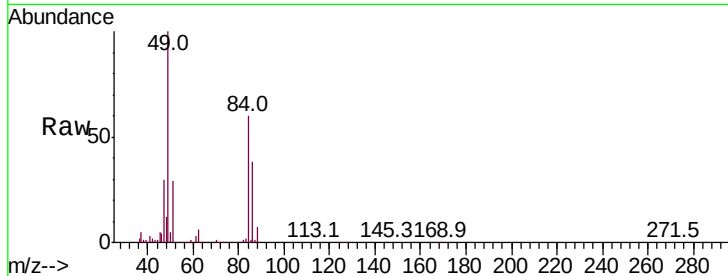
#20
Methylene Chloride
Concen: 6.439 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.01 min
Lab File: VL036756.D
Acq: 8 Apr 2021 18:40

Instrument :
MSVOA_L
ClientSampled :
SG-2DL

Tot Ion:	84	Resp:	439254
Ion Ratio	Lower	Upper	
84	100		
49	163.0	122.9	184.3
51	48.5	36.9	55.3
86	62.8	48.2	72.4

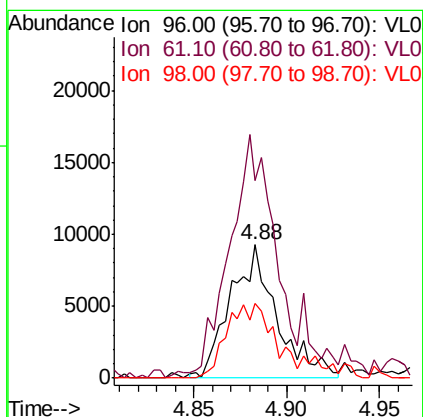
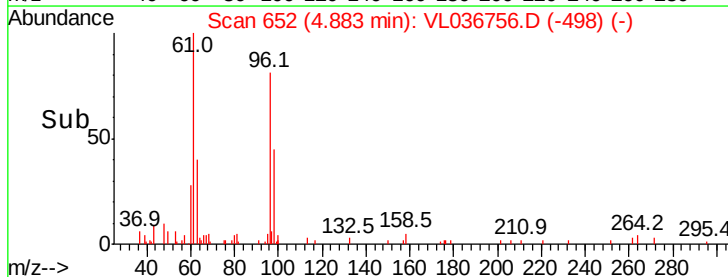
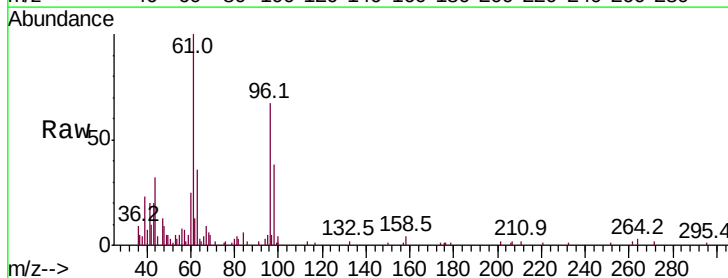
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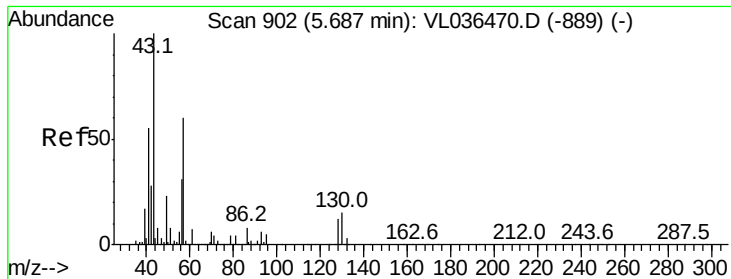
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#22
trans-1,2-Dichloroethene
Concen: 0.248 ppbv
RT: 4.88 min Scan# 652
Delta R.T. -0.00 min
Lab File: VL036756.D
Acq: 8 Apr 2021 18:40

Tgt Ion:	96	Resp:	16120
Ion Ratio	Lower	Upper	
96	100		
61	148.5	129.4	194.0
98	56.3	48.2	72.4





#26

Hexane

Concen: 3.326 ppbv

RT: 5.68 min Scan# 900

Delta R.T. -0.01 min

Lab File: VL036756.D

Acq: 8 Apr 2021 18:40

Instrument :

MSVOA_L

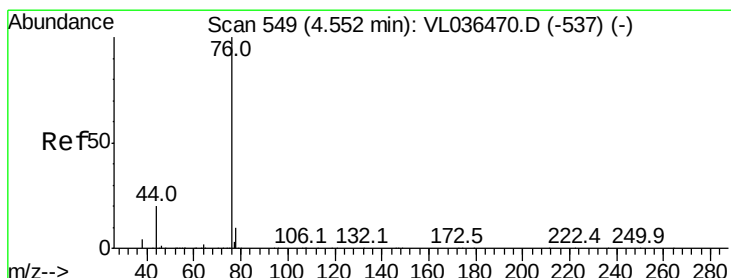
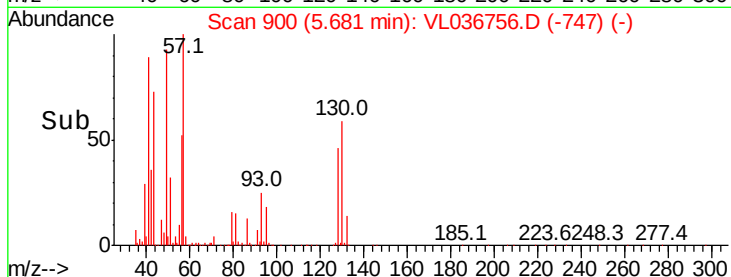
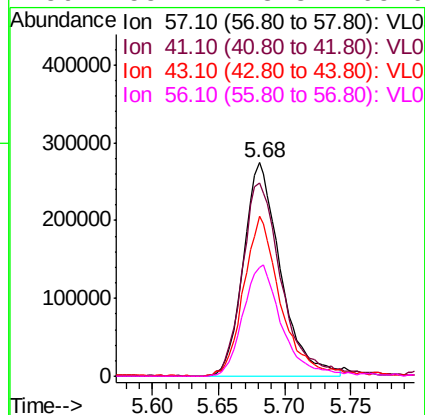
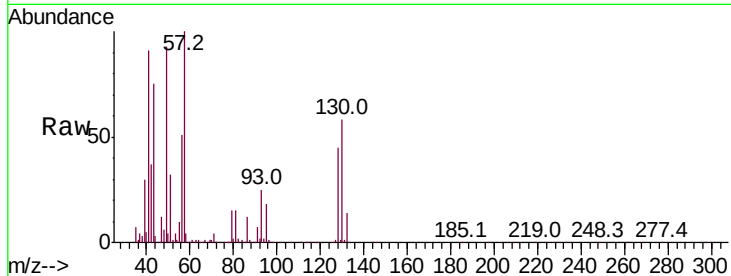
ClientSampled :

SG-2DL

Tot Ion	57	Resp	534644
Ion Ratio	Lower	Upper	
57	100		
41	96.8	77.2	115.8
43	76.7	173.8	260.6#
56	55.1	43.8	65.6

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#27

Carbon Disulfide

Concen: 0.642 ppbv m

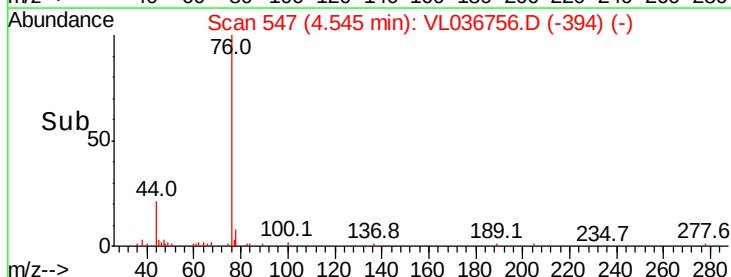
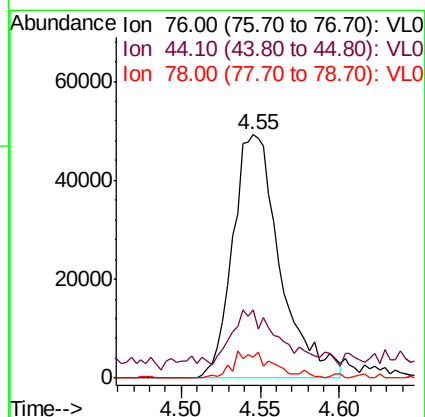
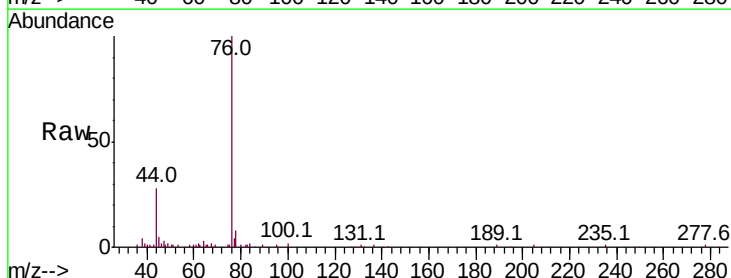
RT: 4.55 min Scan# 547

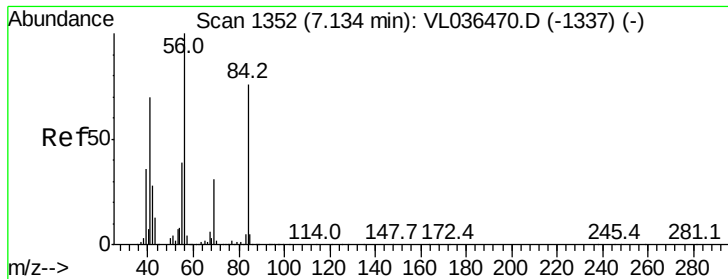
Delta R.T. -0.01 min

Lab File: VL036756.D

Acq: 8 Apr 2021 18:40

Tgt Ion	76	Resp	101648
Ion Ratio	Lower	Upper	
76	100		
44	33.5	17.5	26.3#
78	10.3	8.6	13.0





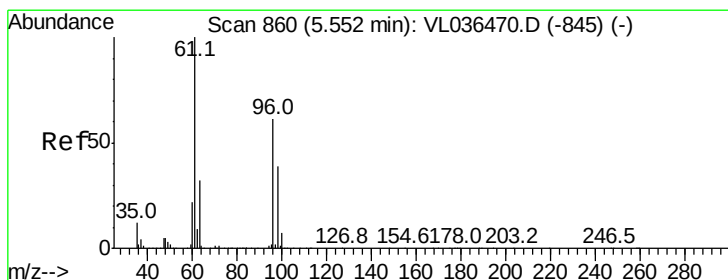
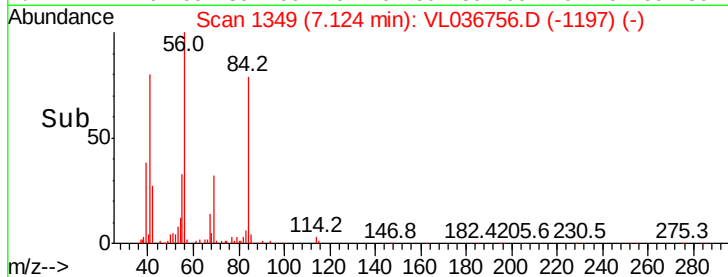
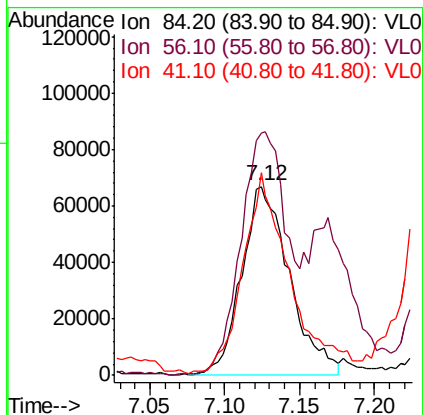
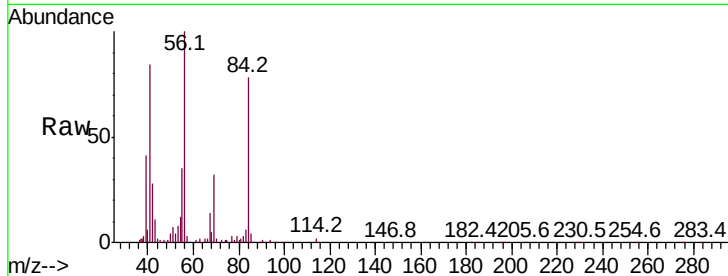
#30
Cvclohexane
Concen: 1.141 ppbv
RT: 7.12 min Scan# 1349
Delta R.T. -0.01 min
Lab File: VL036756.D
Acq: 8 Apr 2021 18:40

Instrument :
MSVOA_L
ClientSampled :
SG-2DL

Tot Ion	Ratio	Lower	Upper
84	100		
56	129.7	114.6	171.8
41	105.1	75.3	112.9

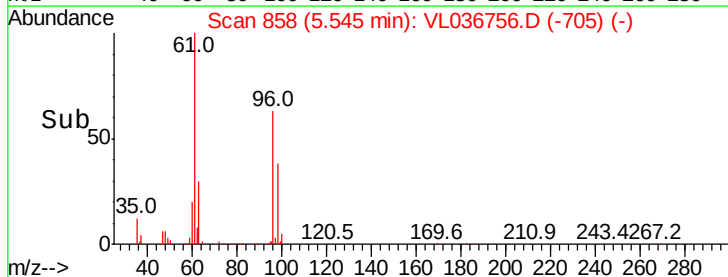
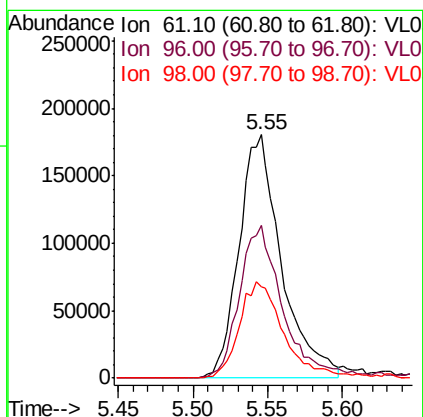
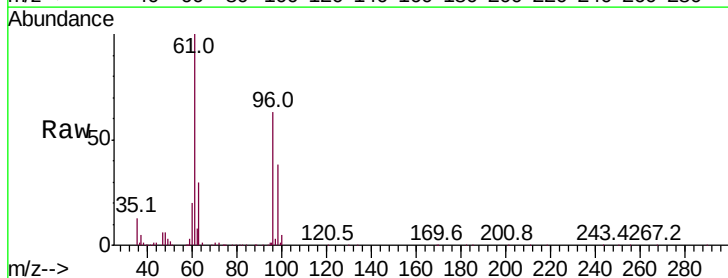
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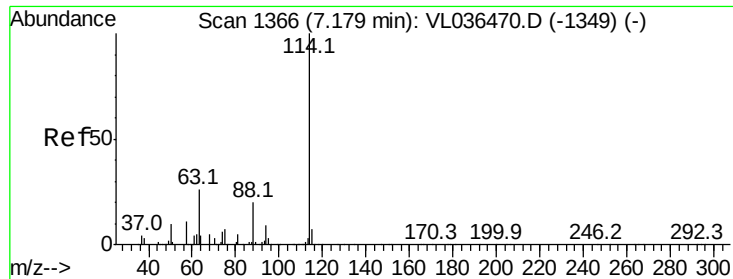
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#31
cis-1,2-Dichloroethene
Concen: 2.291 ppbv
RT: 5.55 min Scan# 858
Delta R.T. -0.01 min
Lab File: VL036756.D
Acq: 8 Apr 2021 18:40

Tgt Ion	Ratio	Lower	Upper
61	100		
96	62.6	48.7	73.1
98	37.5	31.4	47.0





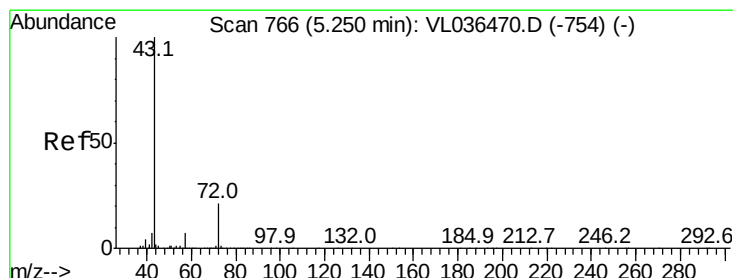
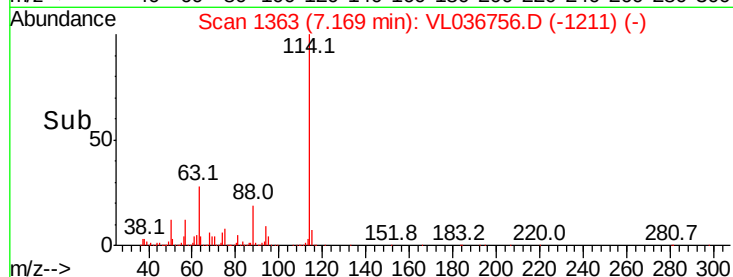
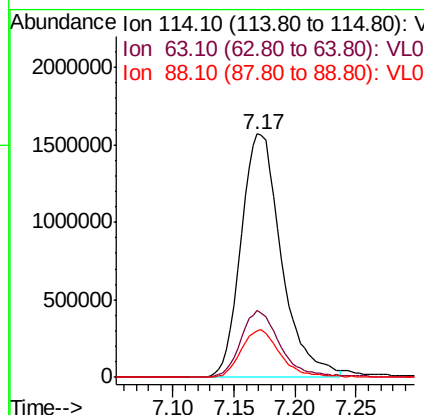
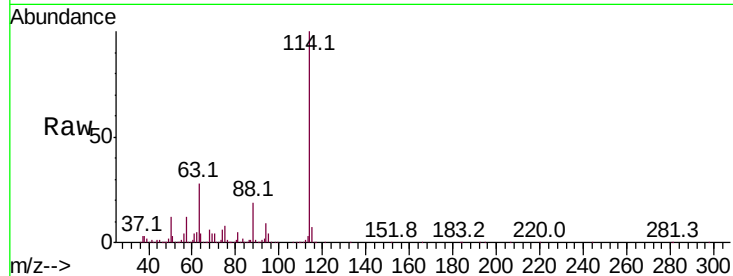
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.01 min
 Lab File: VL036756.D
 Acq: 8 Apr 2021 18:40

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-2DL

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.2	22.4	33.6
88	19.3	15.4	23.0

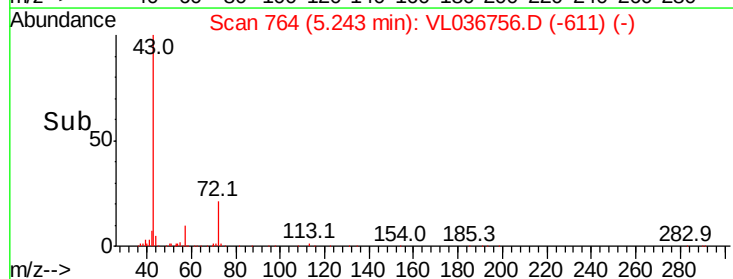
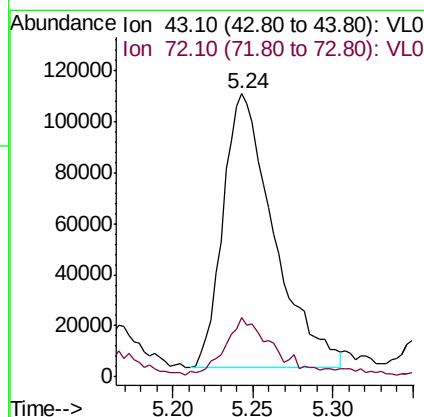
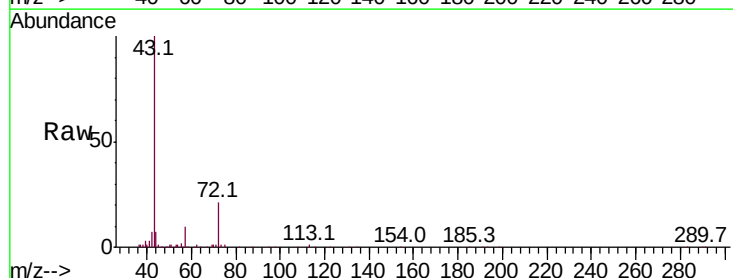
Manual Integrations
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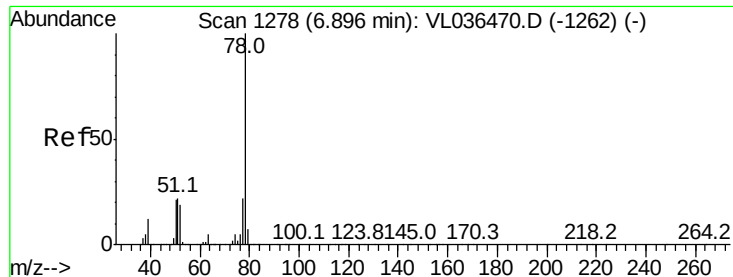
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#34
 2-Butanone
 Concen: 1.337 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. -0.01 min
 Lab File: VL036756.D
 Acq: 8 Apr 2021 18:40

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.7	17.0	25.6





#36

Benzene

Concen: 0.781 ppbv

RT: 6.89 min Scan# 1275

Delta R.T. -0.01 min

Lab File: VL036756.D

Acq: 8 Apr 2021 18:40

Instrument :

MSVOA_L

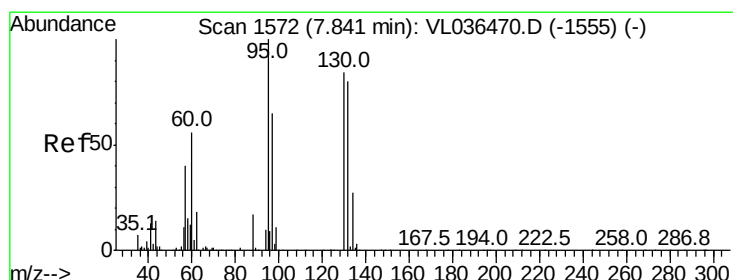
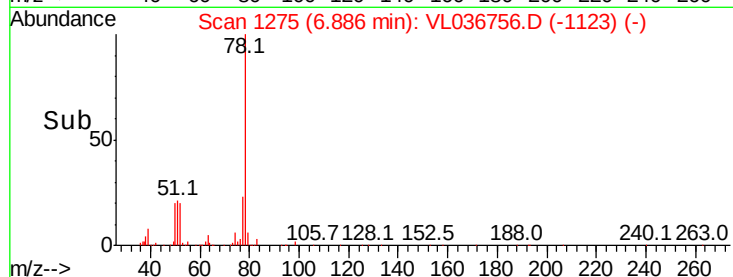
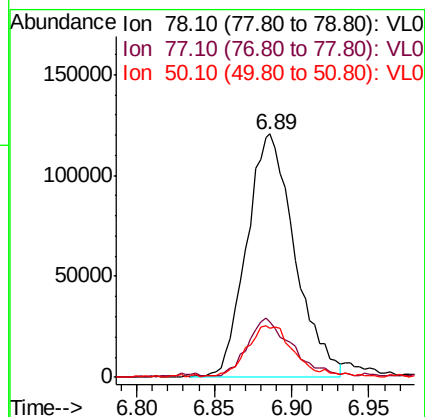
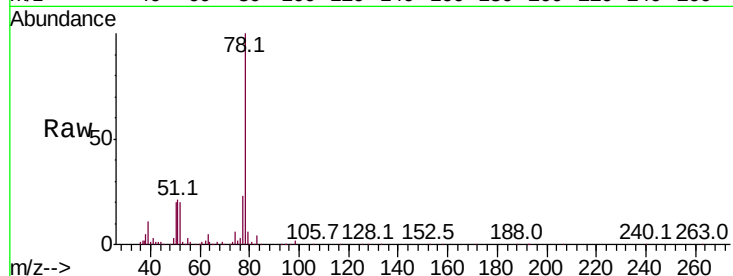
ClientSampled :

SG-2DL

Tot Ion:	78	Resp:	258077
Ion Ratio	Lower	Upper	
78	100		
77	21.5	18.0	27.0
50	19.7	16.5	24.7

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#38

Trichloroethene

Concen: 3.897 ppbv

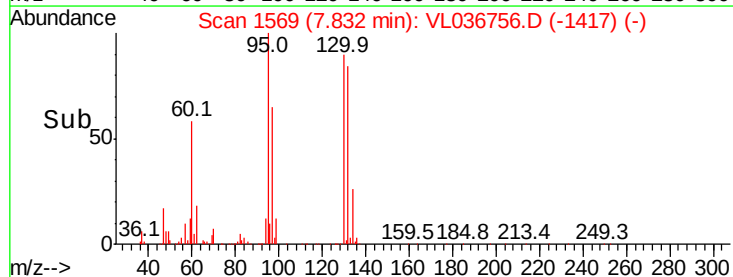
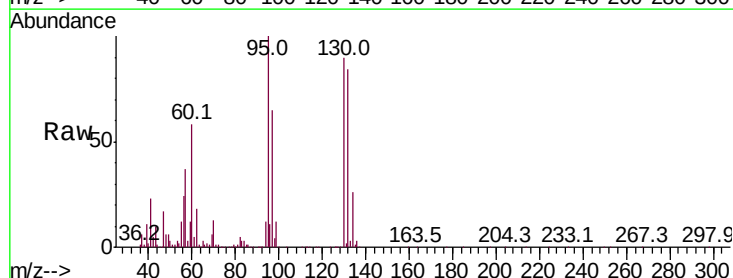
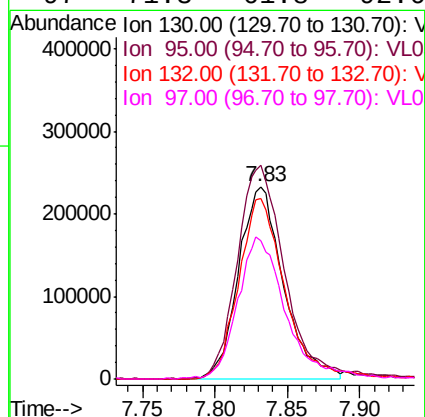
RT: 7.83 min Scan# 1569

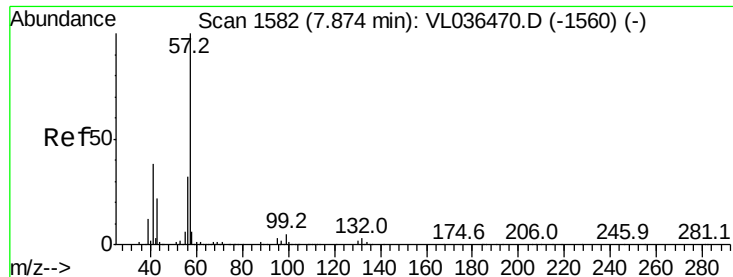
Delta R.T. -0.01 min

Lab File: VL036756.D

Acq: 8 Apr 2021 18:40

Tgt Ion:	130	Resp:	501315
Ion Ratio	Lower	Upper	
130	100		
95	110.6	95.7	143.5
132	93.6	76.2	114.4
97	71.3	61.8	92.6





#44

2,2,4-Trimethylpentane

Concen: 5.166 ppbv

RT: 7.87 min Scan# 1580

Delta R.T. -0.01 min

Lab File: VL036756.D

Acq: 8 Apr 2021 18:40

Instrument :

MSVOA_L

ClientSampleId :

SG-2DL

Tot Ion: 57 Resp: 3005170

Ion Ratio Lower Upper

57 100

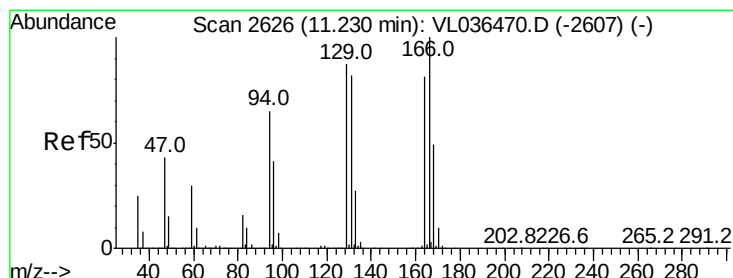
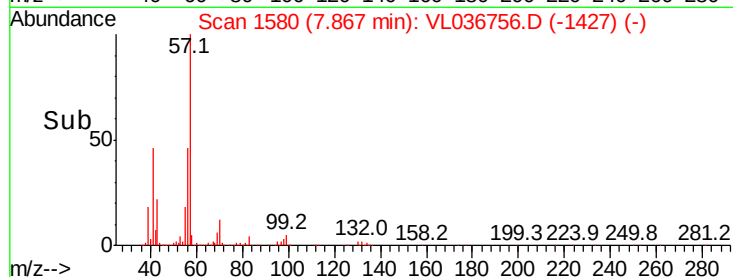
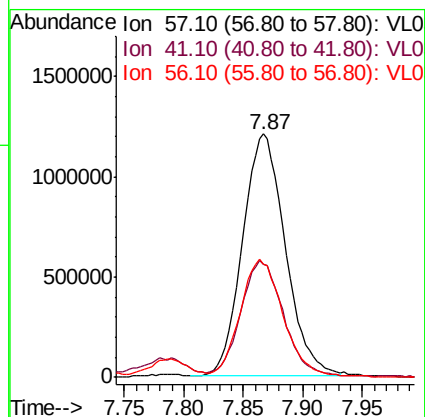
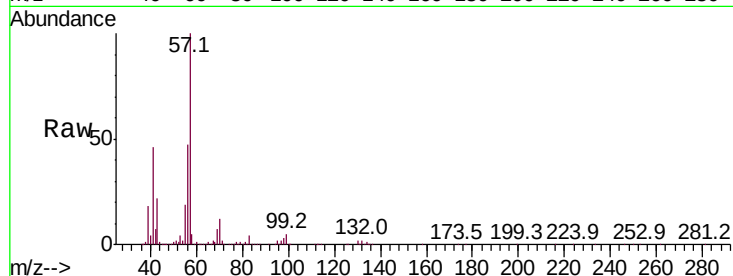
41 48.3 28.8 43.2#

56 49.7 26.1 39.1#

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#52

Tetrachloroethene

Concen: 0.054 ppbv m

RT: 11.23 min Scan# 2625

Delta R.T. -0.00 min

Lab File: VL036756.D

Acq: 8 Apr 2021 18:40

Tgt Ion: 164 Resp: 6586

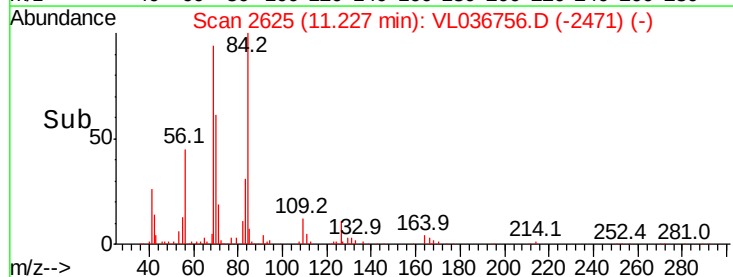
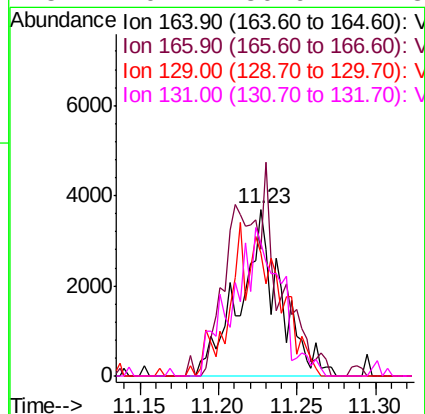
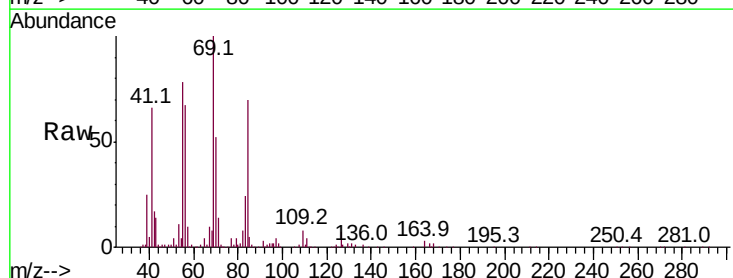
Ion Ratio Lower Upper

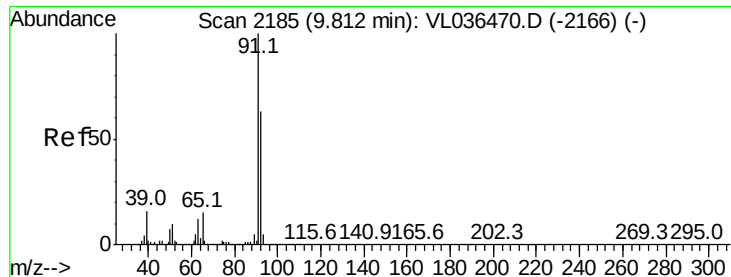
164 100

166 76.2 98.3 147.5#

129 74.1 85.8 128.8#

131 79.7 80.9 121.3#





#53

Toluene

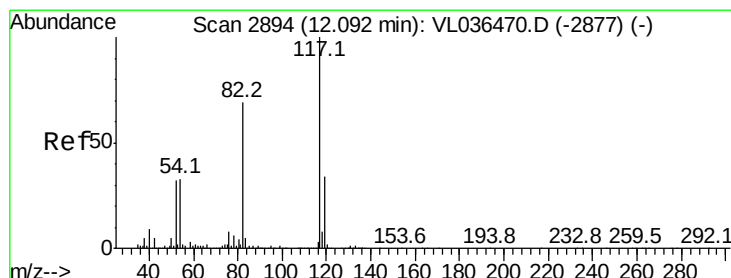
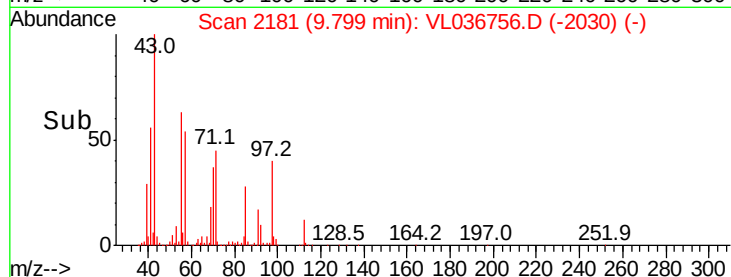
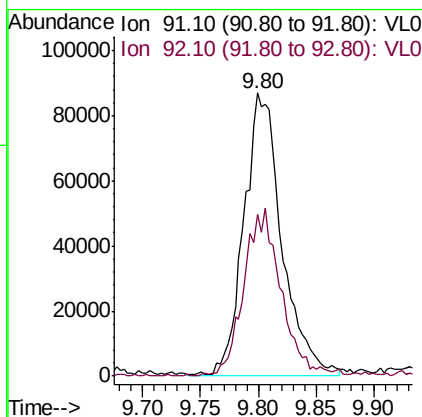
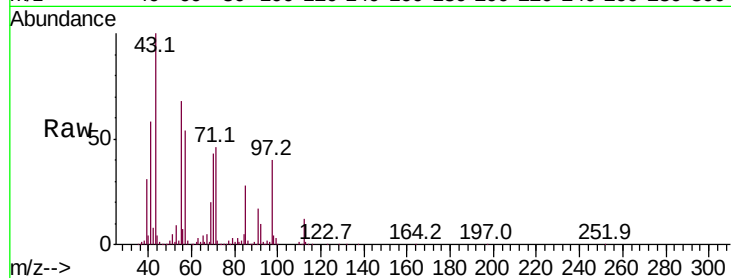
Concen: 0.568 ppbv m
RT: 9.80 min Scan# 2181
Delta R.T. -0.01 min
Lab File: VL036756.D
Acq: 8 Apr 2021 18:40

Instrument :
MSVOA_L
ClientSampleId :
SG-2DL

Tot Ion: 91 Resp: 199908
Ion Ratio Lower Upper
91 100
92 0.0 48.8 73.2#

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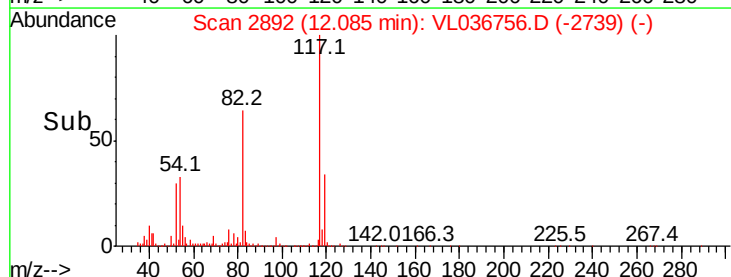
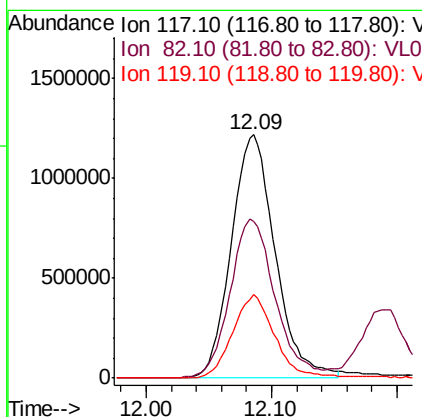
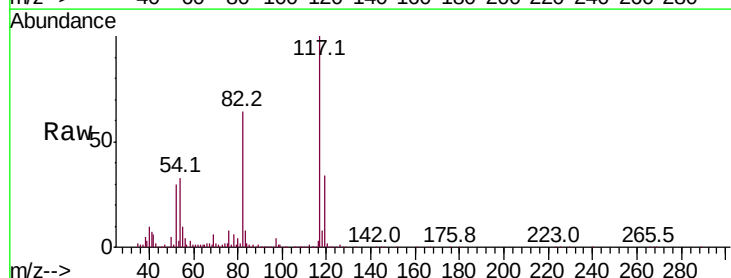


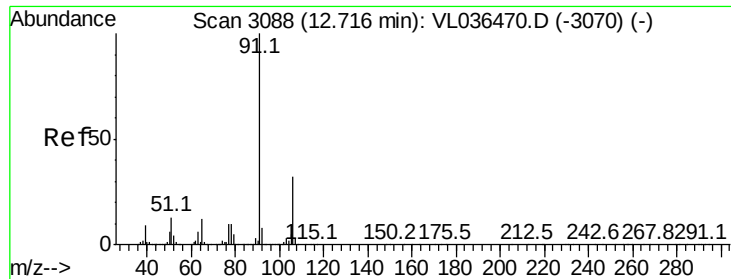
#55

Chlorobenzene-d5

Concen: 10.000 ppbv
RT: 12.09 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL036756.D
Acq: 8 Apr 2021 18:40

Tgt Ion: 117 Resp: 2960578
Ion Ratio Lower Upper
117 100
82 67.1 57.4 86.0
119 33.8 47.4 71.0#





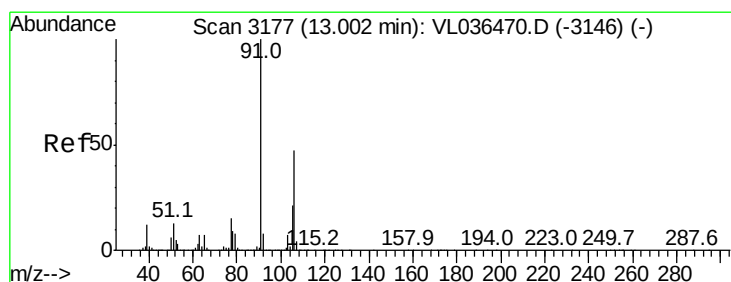
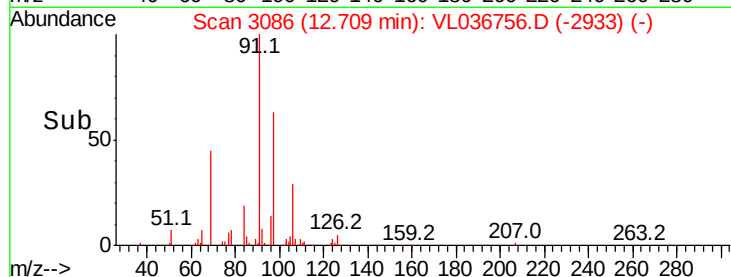
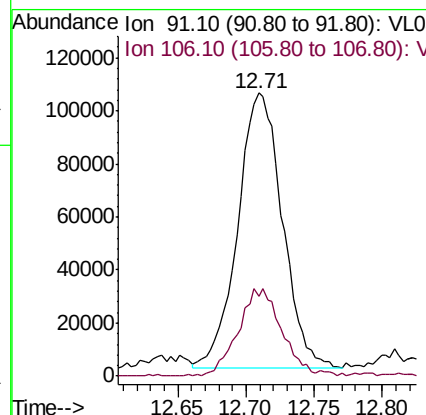
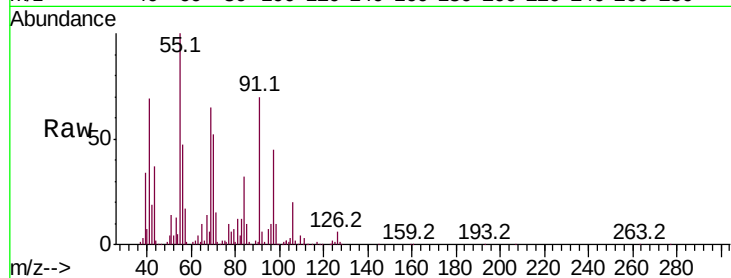
#58
Ethyl Benzene
Concen: 0.542 ppbv
RT: 12.71 min Scan# 3086
Delta R.T. -0.01 min
Lab File: VL036756.D
Acq: 8 Apr 2021 18:40

Instrument :
MSVOA_L
ClientSampleId :
SG-2DL

Tot Ion: 91 Resp: 233544
Ion Ratio Lower Upper
91 100
106 28.9 25.3 37.9

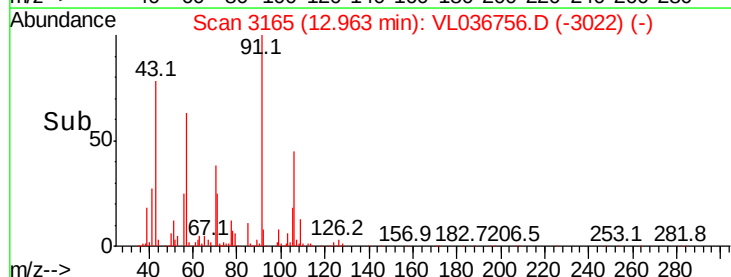
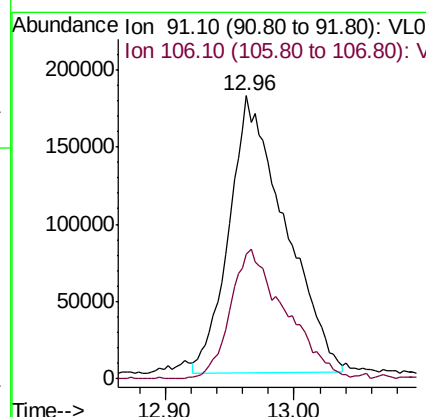
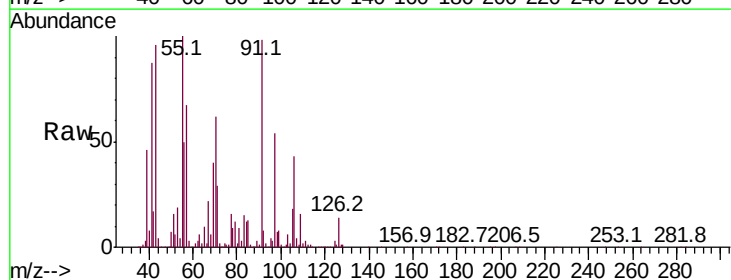
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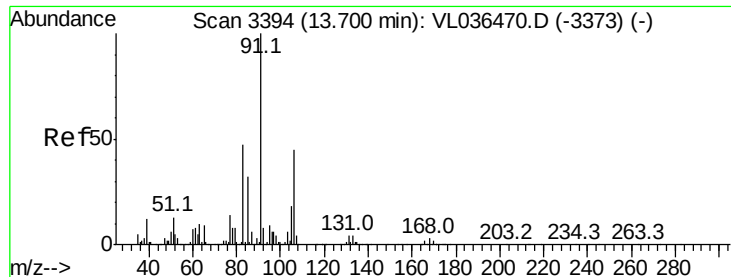
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#59
m/p-Xylene
Concen: 1.433 ppbv
RT: 12.96 min Scan# 3165
Delta R.T. -0.04 min
Lab File: VL036756.D
Acq: 8 Apr 2021 18:40

Tgt Ion: 91 Resp: 538500
Ion Ratio Lower Upper
91 100
106 47.4 35.3 52.9





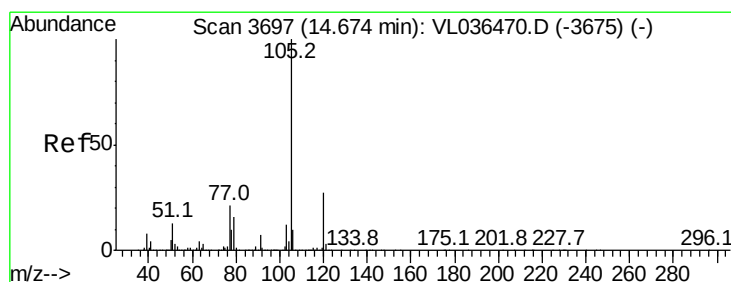
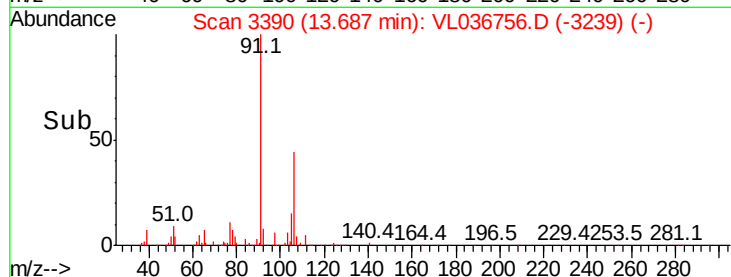
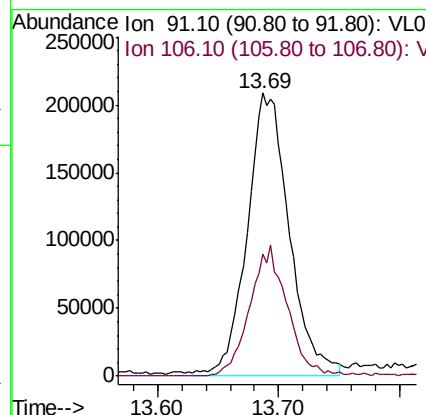
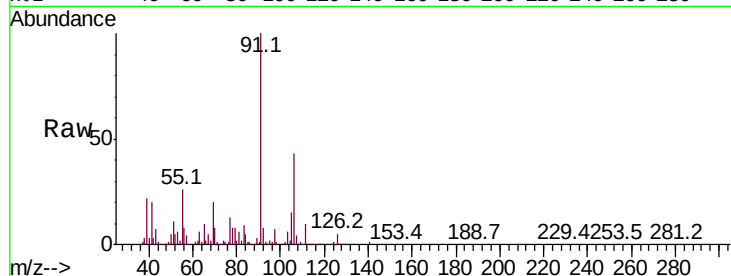
#60
o-Xylene
Concen: 1.397 ppbv m
RT: 13.69 min Scan# 3390
Delta R.T. -0.01 min
Lab File: VL036756.D
Acq: 8 Apr 2021 18:40

Instrument :
MSVOA_L
ClientSampleId :
SG-2DL

Tot Ion	Ratio	Lower	Upper
91	100		
106	42.2	22.3	66.9

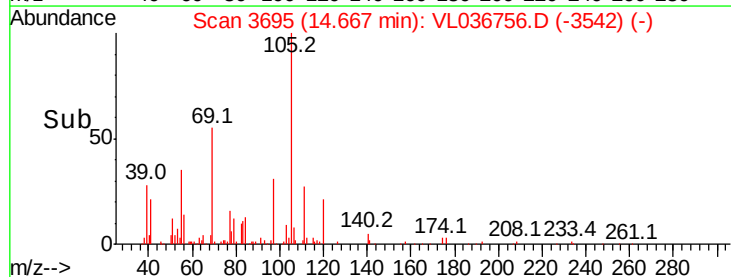
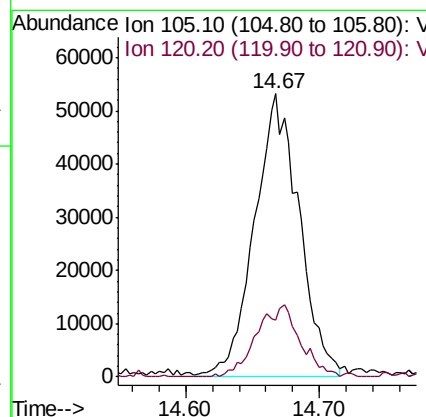
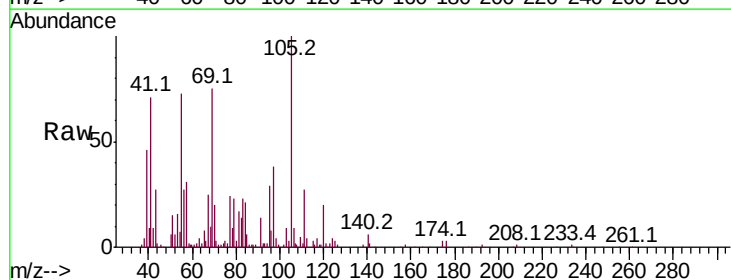
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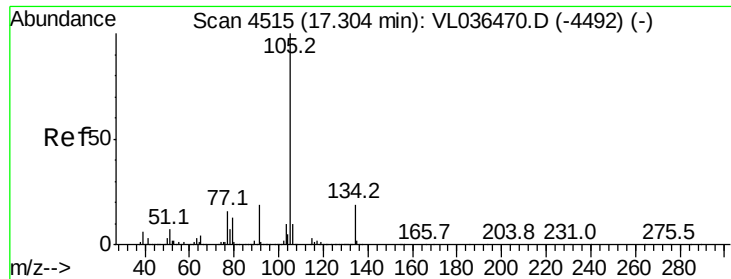
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#62
Isopropylbenzene
Concen: 0.253 ppbv m
RT: 14.67 min Scan# 3695
Delta R.T. -0.01 min
Lab File: VL036756.D
Acq: 8 Apr 2021 18:40

Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	20.6	31.0





#67

sec-Butylbenzene

Concen: 0.130 ppbv

RT: 17.29 min Scan# 4511

Delta R.T. -0.01 min

Lab File: VL036756.D

Acq: 8 Apr 2021 18:40

Instrument :

MSVOA_L

ClientSampled :

SG-2DL

Tot Ion:105 Resp: 77584

Ion Ratio Lower Upper

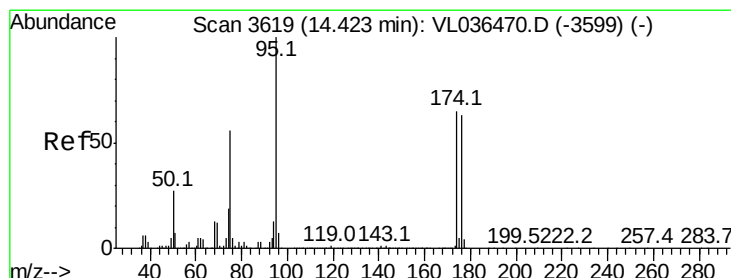
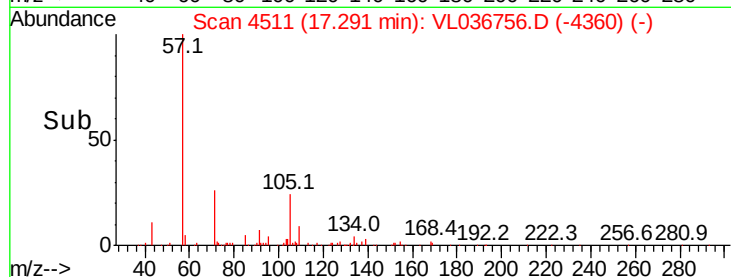
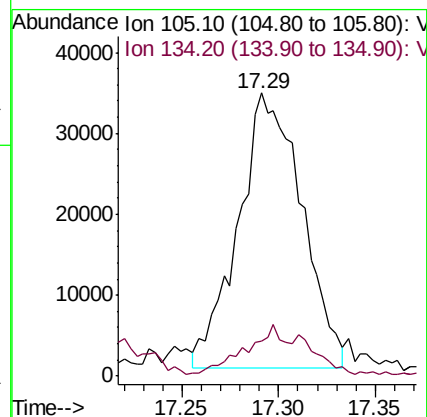
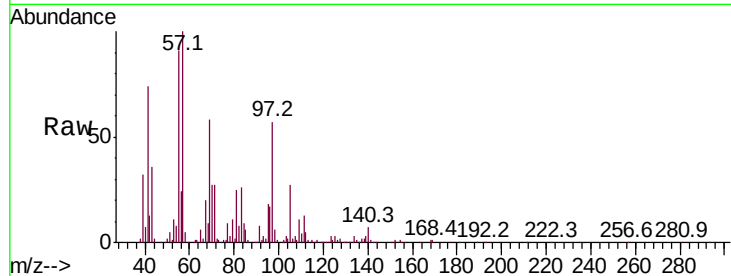
105 100

134 19.3 14.7 22.1

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.017 ppbv

RT: 14.41 min Scan# 3616

Delta R.T. -0.01 min

Lab File: VL036756.D

Acq: 8 Apr 2021 18:40

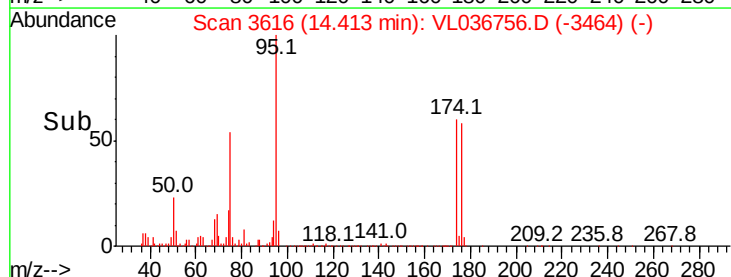
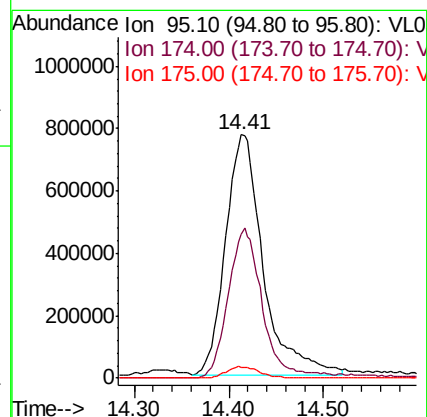
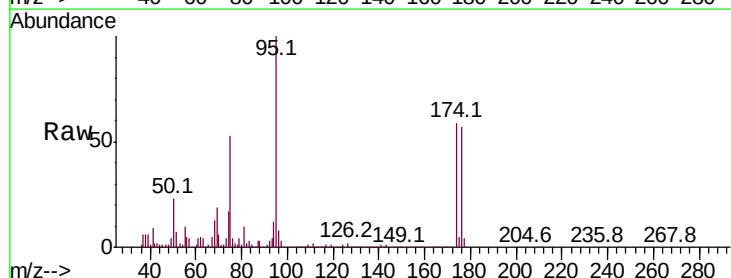
Tgt Ion: 95 Resp: 2127545

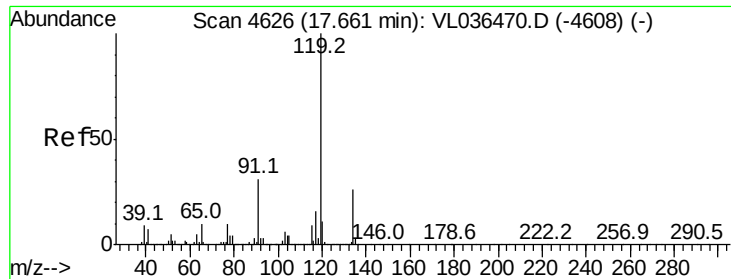
Ion Ratio Lower Upper

95 100

174 59.1 51.0 76.6

175 4.4 3.9 5.9





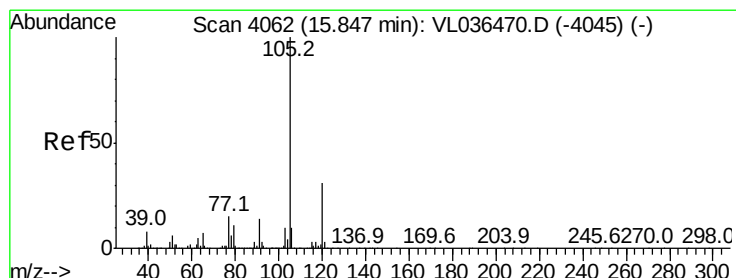
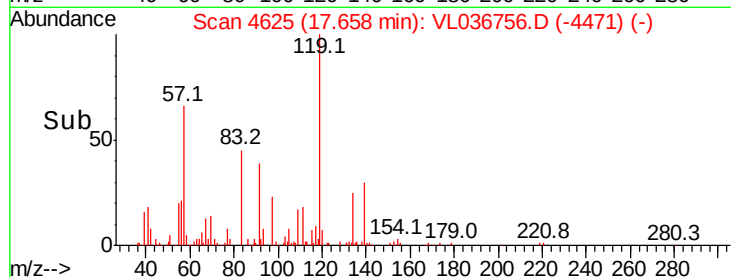
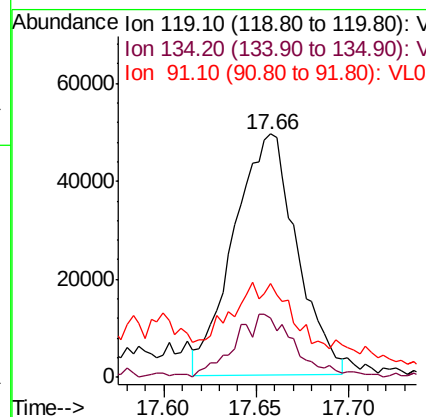
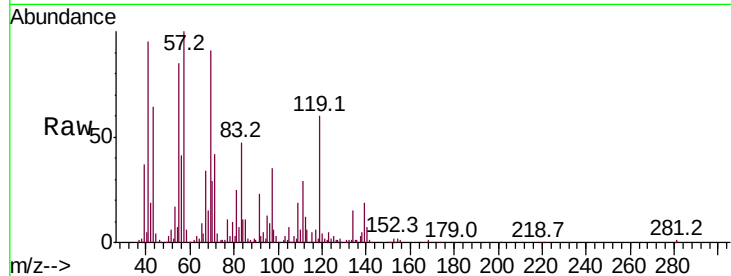
#69
p-Isopropyltoluene
Concen: 0.249 ppbv
RT: 17.66 min Scan# 4625
Delta R.T. -0.00 min
Lab File: VL036756.D
Acq: 8 Apr 2021 18:40

Instrument :
MSVOA_L
ClientSampled :
SG-2DL

Tot Ion	Ratio	Resp	Lower	Upper
119	100			
134	26.4	20.6	30.8	
91	41.3	25.0	37.6#	

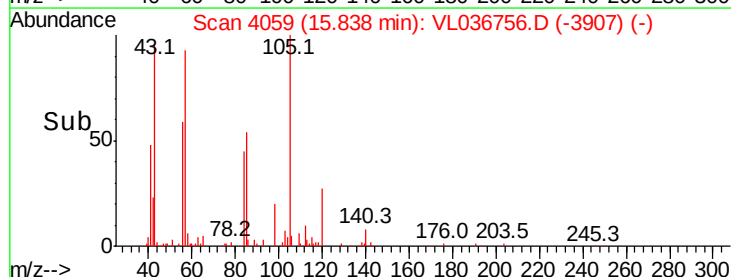
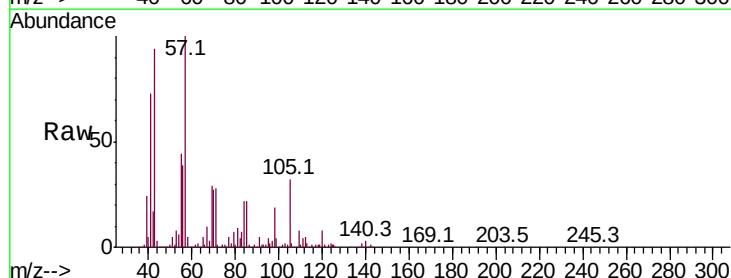
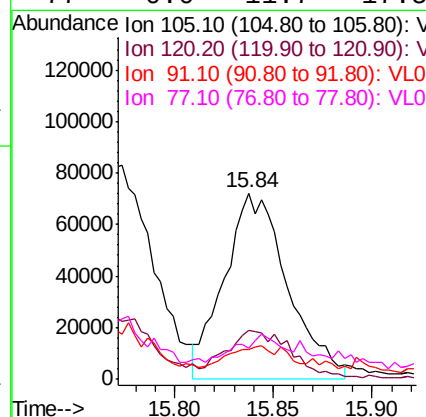
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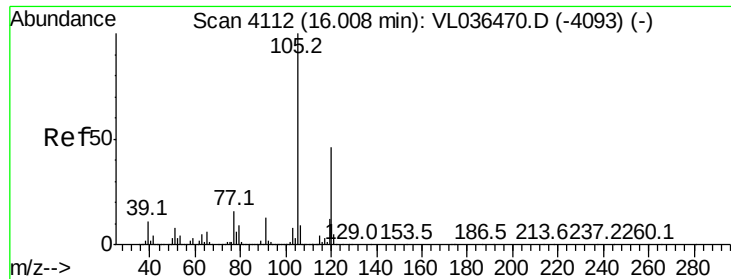
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#72
4-Ethyltoluene
Concen: 0.406 ppbv m
RT: 15.84 min Scan# 4059
Delta R.T. -0.01 min
Lab File: VL036756.D
Acq: 8 Apr 2021 18:40

Tgt Ion	Ratio	Resp	Lower	Upper
105	100			
120	28.2	24.0	36.0	
91	0.0	11.0	16.4#	
77	0.0	11.7	17.5#	





#73

1,3,5-Trimethylbenzene

Concen: 0.667 ppbv

RT: 16.00 min Scan# 4110

Delta R.T. -0.01 min

Lab File: VL036756.D

Acq: 8 Apr 2021 18:40

Instrument :

MSVOA_L

ClientSampled :

SG-2DL

Tot Ion:105 Resp: 247795

Ion Ratio Lower Upper

105 100

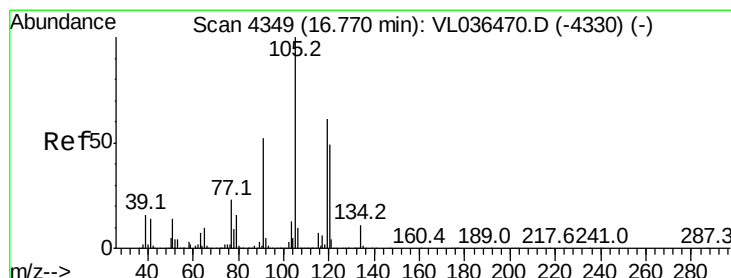
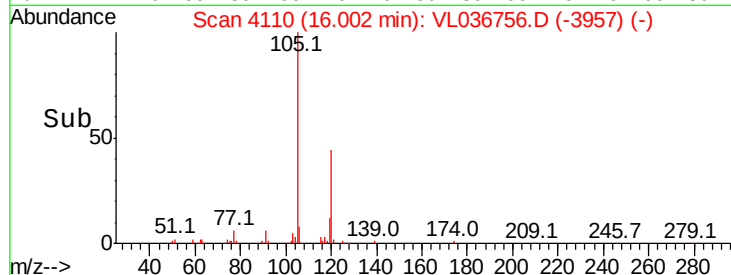
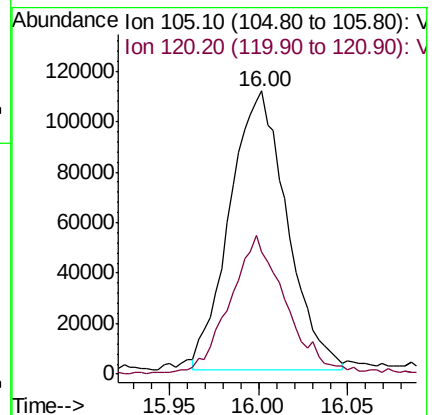
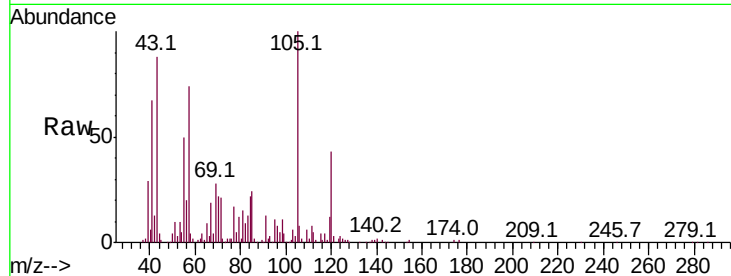
120 42.2 36.6 54.8

Manual Integrations

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#74

1,2,4-Trimethylbenzene

Concen: 0.940 ppbv m

RT: 16.76 min Scan# 4346

Delta R.T. -0.01 min

Lab File: VL036756.D

Acq: 8 Apr 2021 18:40

Tgt Ion:105 Resp: 373734

Ion Ratio Lower Upper

105 100

120 42.6 39.2 58.8

91 16.4 42.6 64.0#

77 20.3 18.6 28.0

