

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090320\
 Data File : VL035548.D
 Acq On : 4 Sep 2020 2:26
 Operator : SY/AP
 Sample : L3898-08DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-7DL

Manual Integrations
 APPROVED

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 9/8/2020 5:13:10 PM

Quant Time: Sep 09 05:18:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Aug 27 2020
 QLast Update : Thu Aug 27 06:46:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1005090	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	4241585	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	4298106	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.46	95	3150653	10.32	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.00	51	30916m	0.278	ppbv	
9) Propene	3.02	41	30999	0.723	ppbv #	79
11) Trichlorofluoromethane	3.96	101	327813	1.291	ppbv	93
13) Ethanol	3.61	45	205700	19.359	ppbv	96
15) Acetone	3.86	43	1756914	15.849	ppbv	99
17) tert-Butyl alcohol	4.32	59	113124	0.838	ppbv	98
19) Isopropyl Alcohol	3.99	45	78852	1.192	ppbv #	93
20) Methylene Chloride	4.36	84	50439	0.611	ppbv	96
26) Hexane	5.71	57	35642	0.321	ppbv #	58
27) Carbon Disulfide	4.56	76	471338	2.960	ppbv	99
29) Chloroform	5.77	83	40271	0.178	ppbv	97
34) 2-Butanone	5.27	43	65527	0.521	ppbv	96
36) Benzene	6.92	78	52112	0.190	ppbv	98
43) Methyl Methacrylate	8.04	69	14725m	0.139	ppbv	
44) 2,2,4-Trimethylpentane	7.93	57	533962	1.478	ppbv #	1
52) Tetrachloroethene	11.26	164	7354m	0.046	ppbv	
53) Toluene	9.84	91	135785	0.393	ppbv	98
59) m/p-Xylene	13.00	91	44075m	0.119	ppbv	
64) n-propylbenzene	15.61	120	28223m	0.154	ppbv	
72) 4-Ethyltoluene	15.88	105	142297	0.300	ppbv	98
73) 1,3,5-Trimethylbenzene	16.04	105	112466	0.256	ppbv	92
74) 1,2,4-Trimethylbenzene	16.81	105	338929	0.704	ppbv #	71

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

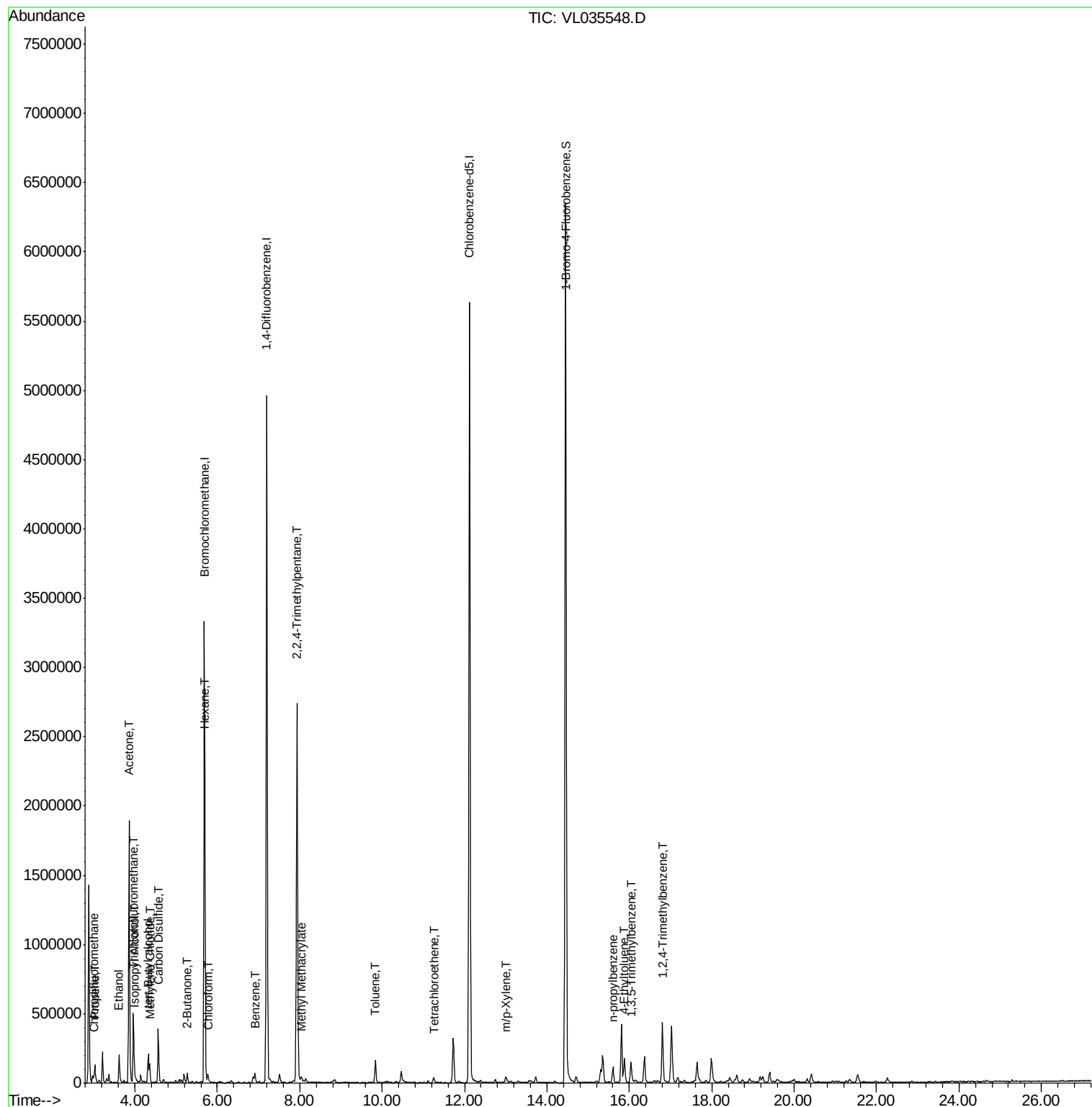
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL090320\
Data File : VL035548.D
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Misc : 400ml/MSVOA L
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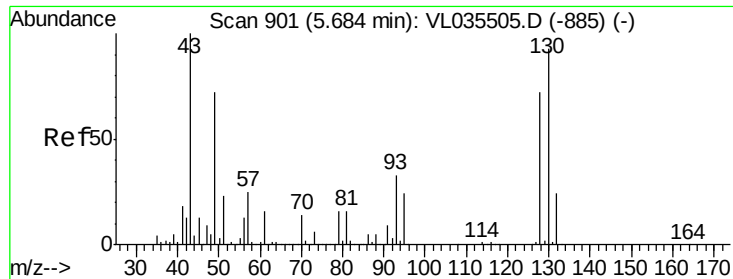
Instrument :
MSVOA_L
ClientSampleId :
SS-7DL

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Quant Time: Sep 09 05:18:53 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Aug
QLast Update : Thu Aug 27 06:46:28 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.00 min

Lab File: VL035548.D

Acq: 4 Sep 2020 2:26

Instrument :

MSVOA_L

ClientSampleID :

SS-7DL

Tot Ion: 49 Resp: 1005090

Ion Ratio Lower Upper

49 100

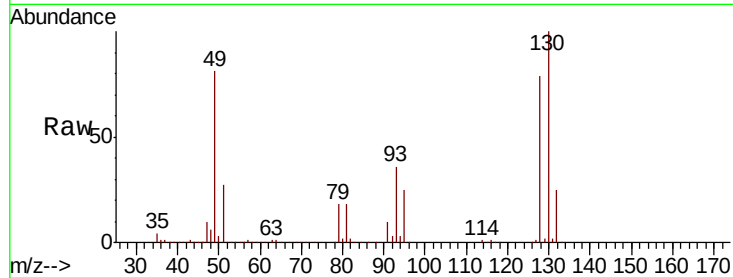
128 95.4 50.0 150.1

130 122.5 64.4 193.2

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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

800000

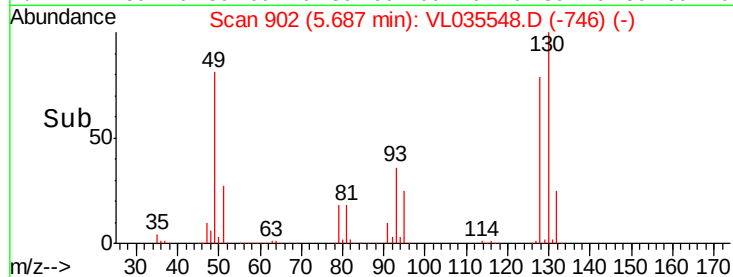
600000

400000

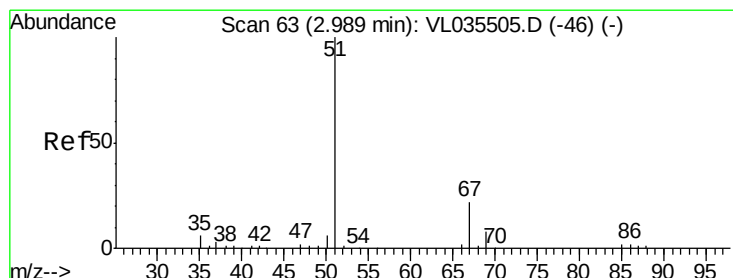
200000

0

5.60 5.65 5.70 5.75



Time-->



#3

Chlorodifluoromethane

Concen: 0.278 ppbv m

RT: 3.00 min Scan# 65

Delta R.T. 0.01 min

Lab File: VL035548.D

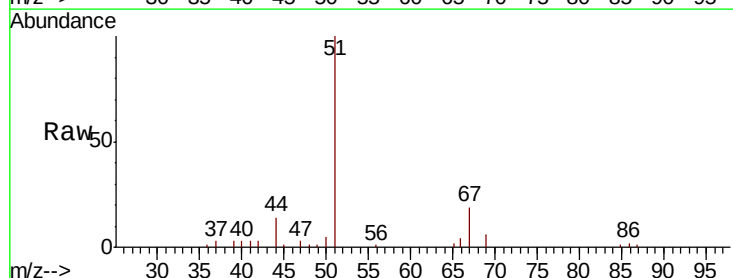
Acq: 4 Sep 2020 2:26

Tgt Ion: 51 Resp: 30916

Ion Ratio Lower Upper

51 100

67 22.0 17.8 26.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

30000

25000

20000

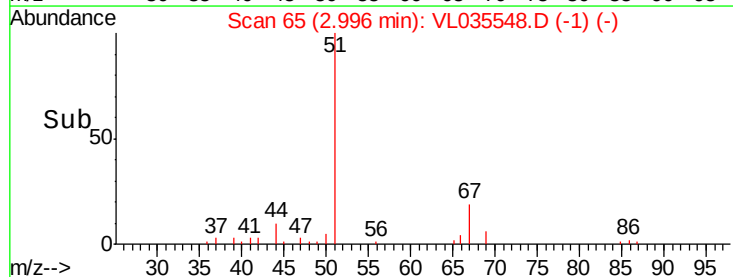
15000

10000

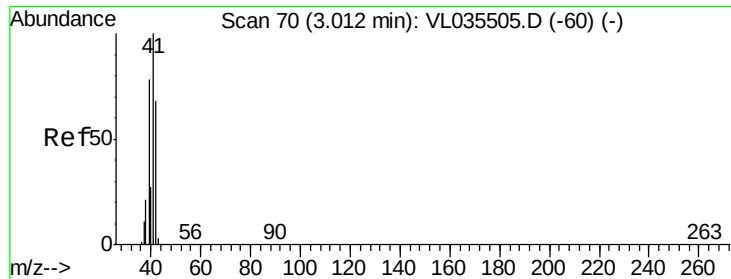
5000

0

2.96 2.98 3.00 3.02



Time-->



#9

Propene

Concen: 0.723 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.01 min

Lab File: VL035548.D

Acq: 4 Sep 2020 2:26

Instrument :

MSVOA_L

ClientSampleId :

SS-7DL

Tot Ion: 41 Resp: 30999

Ion Ratio Lower Upper

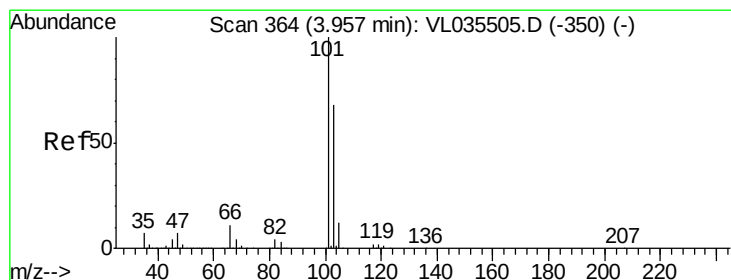
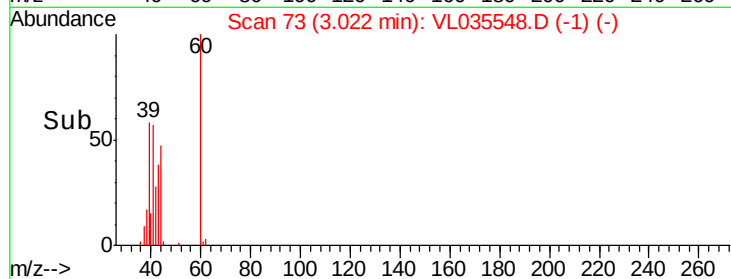
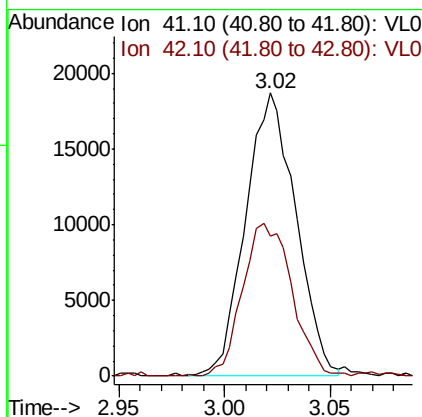
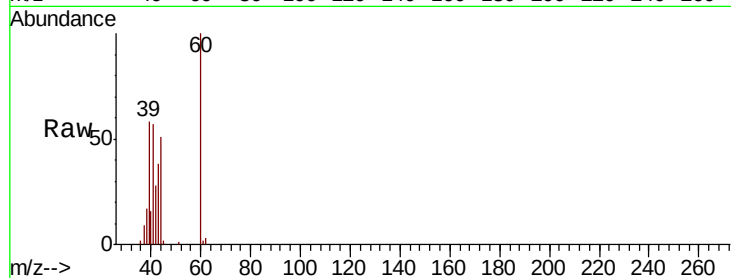
41 100

42 53.2 56.3 84.5#

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#11

Trichlorofluoromethane

Concen: 1.291 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.00 min

Lab File: VL035548.D

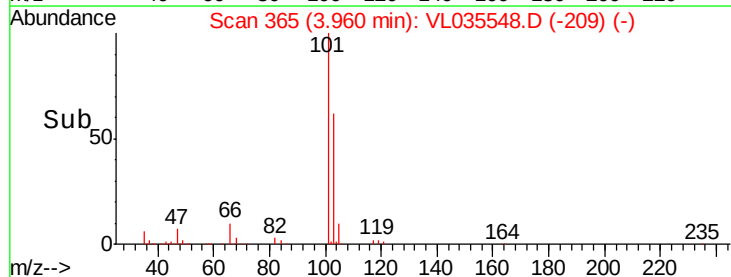
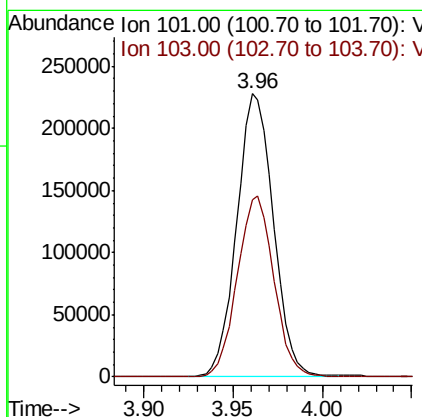
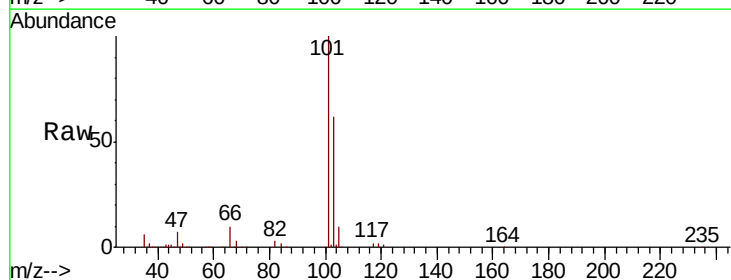
Acq: 4 Sep 2020 2:26

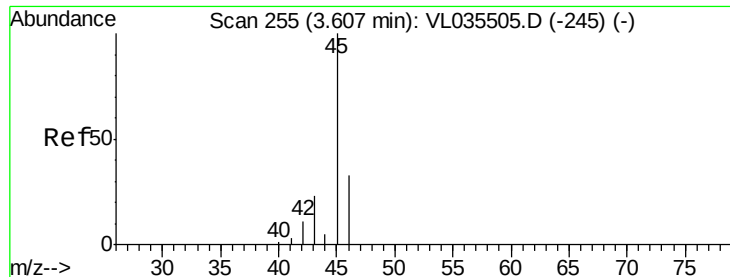
Tgt Ion: 101 Resp: 327813

Ion Ratio Lower Upper

101 100

103 62.4 54.5 81.7





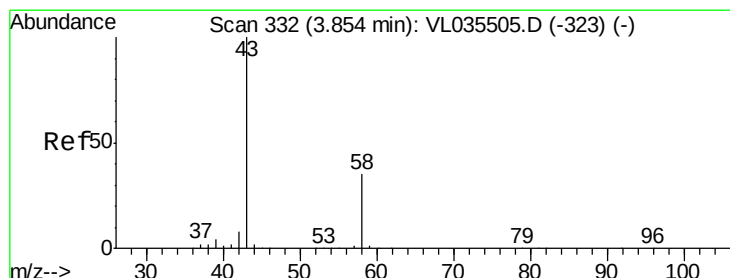
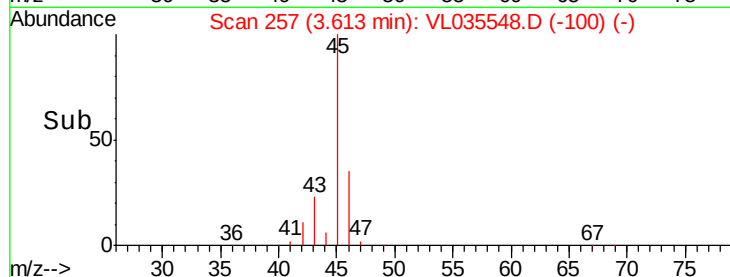
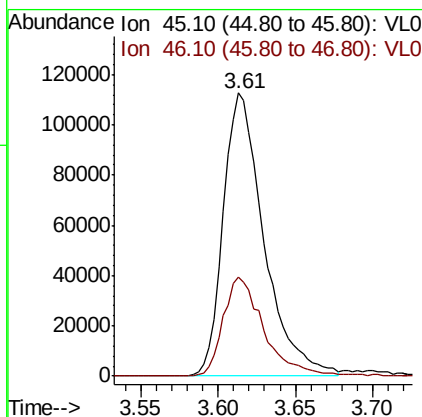
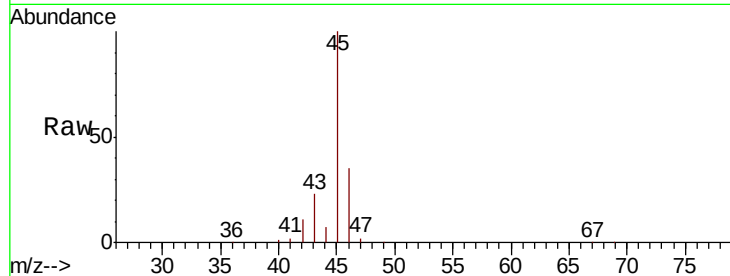
#13
Ethanol
Concen: 19.359 ppbv
RT: 3.61 min Scan# 257
Delta R.T. 0.01 min
Lab File: VL035548.D
Acq: 4 Sep 2020 2:26

Instrument :
MSVOA_L
ClientSampled :
SS-7DL

Tot Ion	45	46	Ratio	Lower	Upper
205700	100	35.5		15.2	60.6

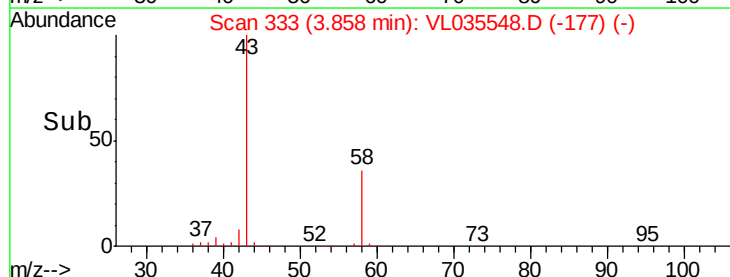
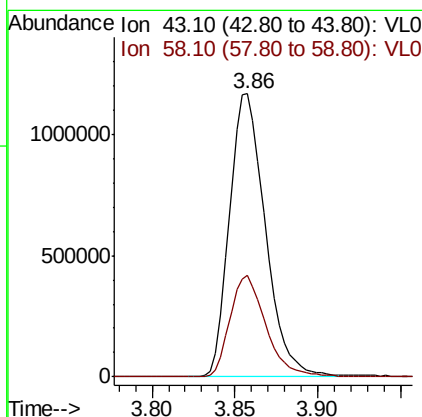
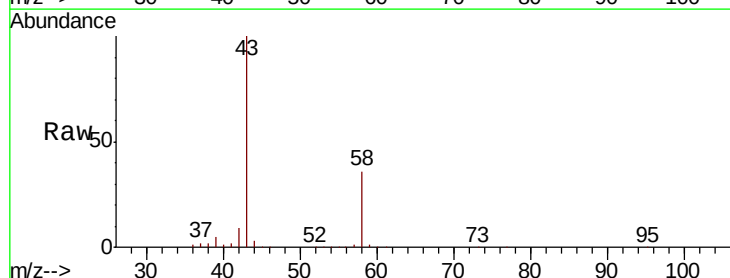
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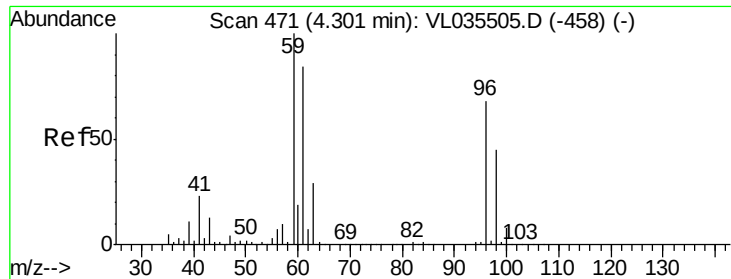
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#15
Acetone
Concen: 15.849 ppbv
RT: 3.86 min Scan# 333
Delta R.T. 0.00 min
Lab File: VL035548.D
Acq: 4 Sep 2020 2:26

Tgt Ion	43	58	Ratio	Lower	Upper
1756914	100	36.2		28.4	42.6





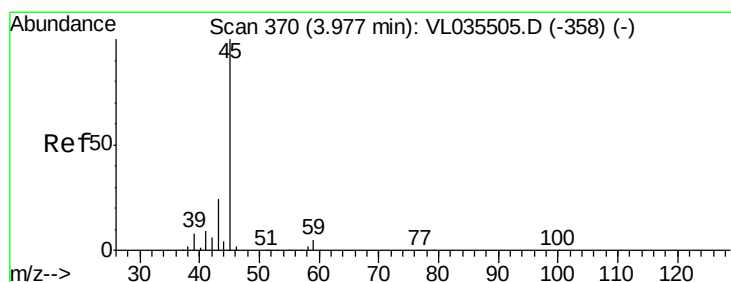
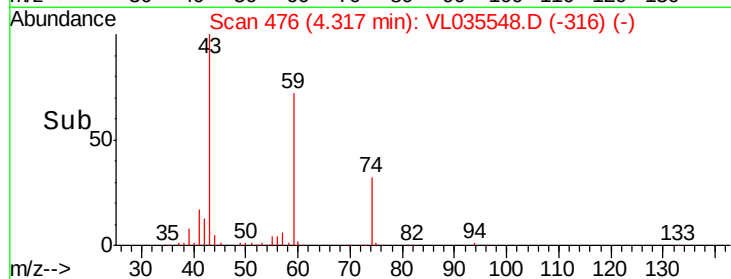
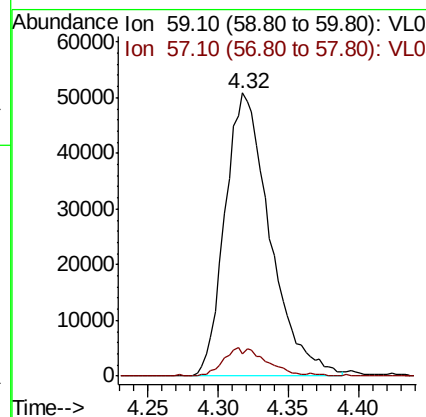
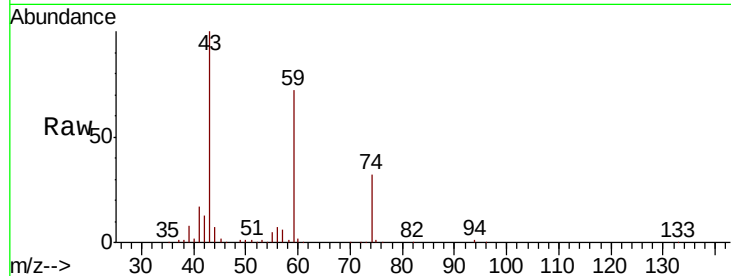
#17
 tert-Butyl alcohol
 Concen: 0.838 ppbv
 RT: 4.32 min Scan# 476
 Delta R.T. 0.02 min
 Lab File: VL035548.D
 Acq: 4 Sep 2020 2:26

Instrument :
 MSVOA_L
 ClientSampled :
 SS-7DL

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.8	8.4	12.6

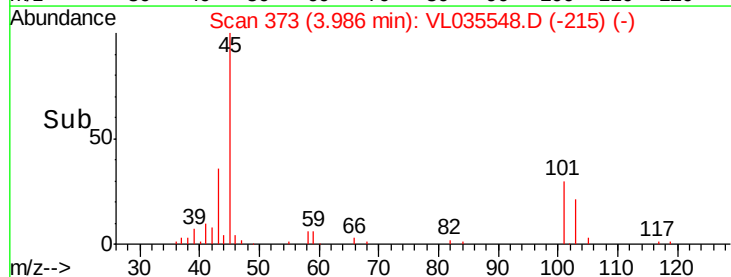
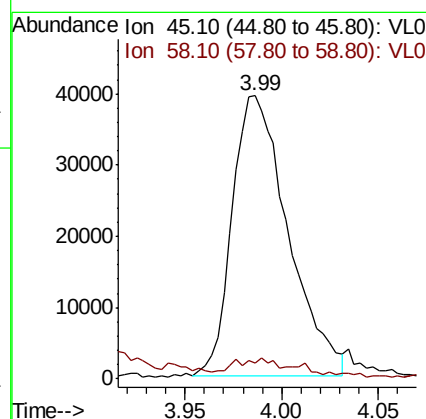
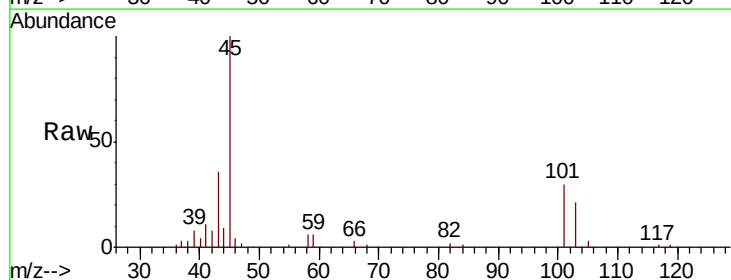
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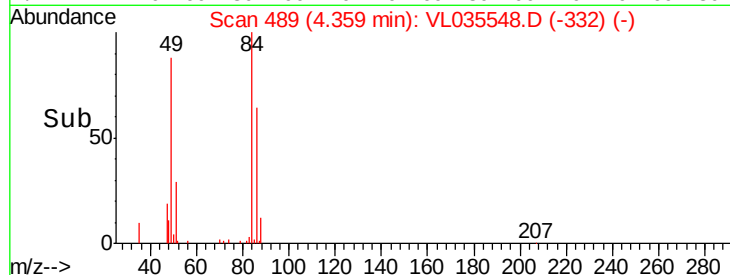
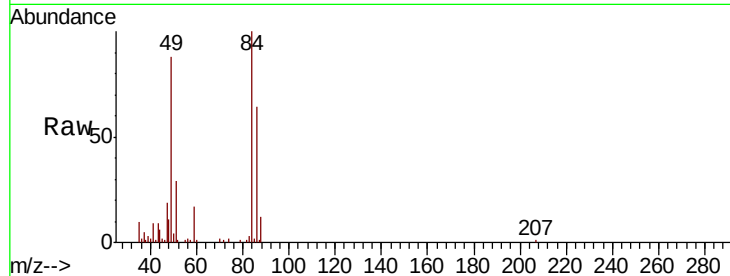
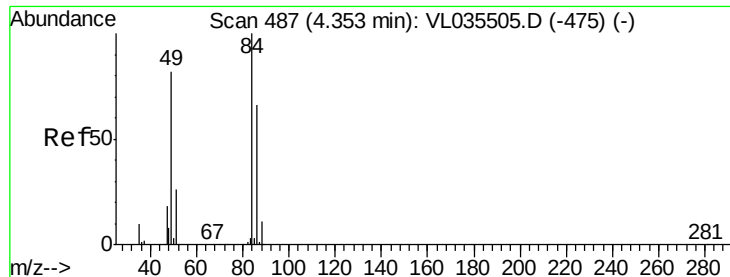
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#19
 Isopropyl Alcohol
 Concen: 1.192 ppbv
 RT: 3.99 min Scan# 373
 Delta R.T. 0.01 min
 Lab File: VL035548.D
 Acq: 4 Sep 2020 2:26

Tgt Ion	Ratio	Lower	Upper
45	100		
58	0.0	2.0	3.0#





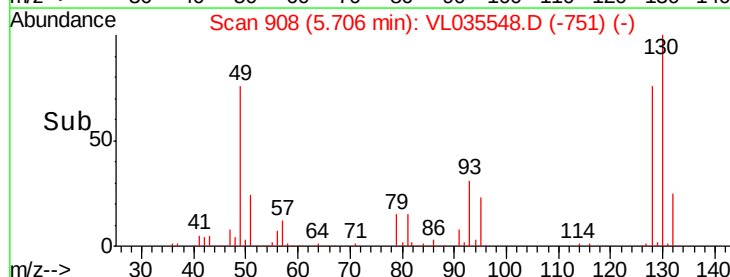
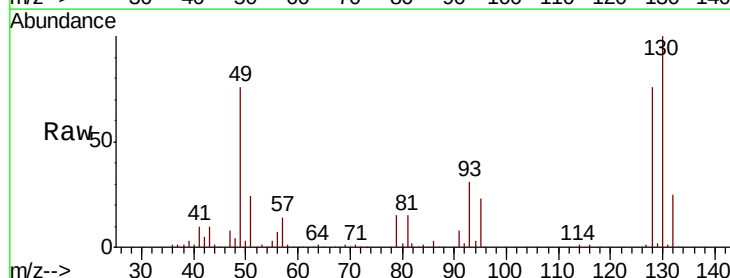
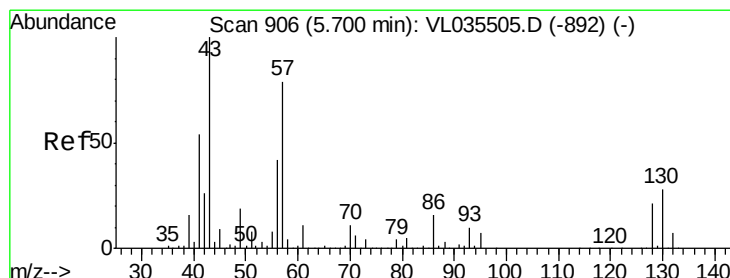
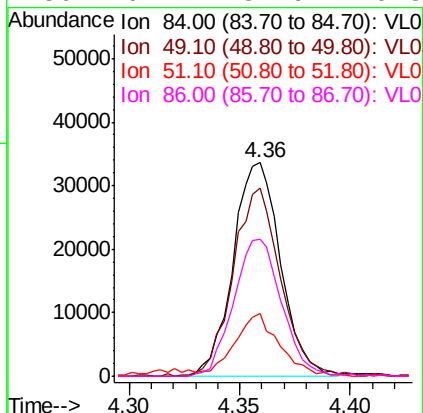
#20
Methvlene Chloride
Concen: 0.611 ppbv
RT: 4.36 min Scan# 489
Delta R.T. 0.01 min
Lab File: VL035548.D
Acq: 4 Sep 2020 2:26

Tot Ion	84	Resp	50439
Ion Ratio	Lower	Upper	
84	100		
49	87.3	65.4	98.0
51	29.1	21.5	32.3
86	64.2	52.9	79.3

Instrument :
MSVOA_L
ClientSampled :
SS-7DL

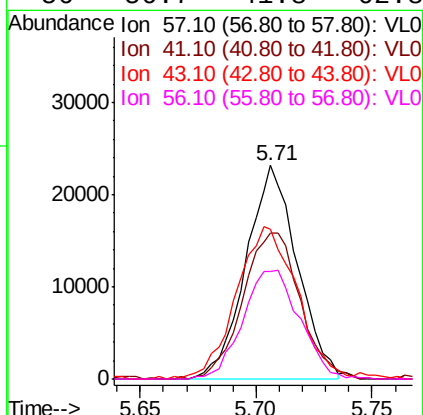
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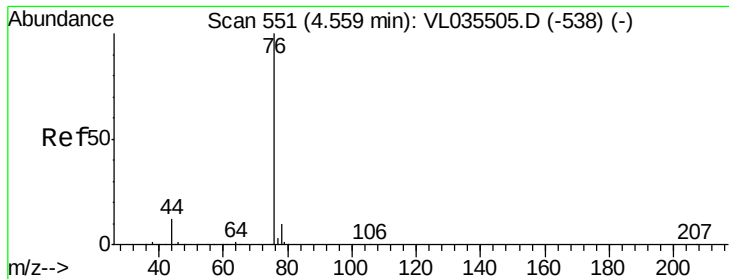
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#26
Hexane
Concen: 0.321 ppbv
RT: 5.71 min Scan# 908
Delta R.T. 0.01 min
Lab File: VL035548.D
Acq: 4 Sep 2020 2:26

Tgt Ion	57	Resp	35642
Ion Ratio	Lower	Upper	
57	100		
41	76.6	55.9	83.9
43	85.6	141.8	212.8#
56	56.7	41.8	62.8





#27

Carbon Disulfide

Concen: 2.960 ppbv

RT: 4.56 min Scan# 553

Delta R.T. 0.01 min

Lab File: VL035548.D

Acq: 4 Sep 2020 2:26

Instrument :

MSVOA_L

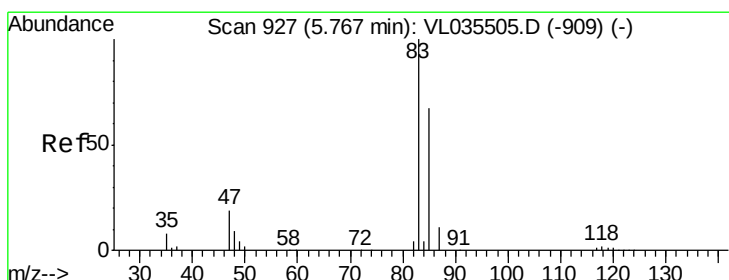
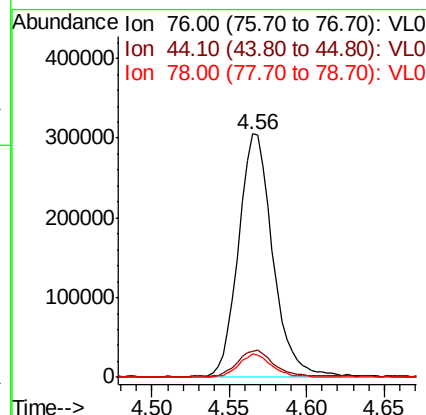
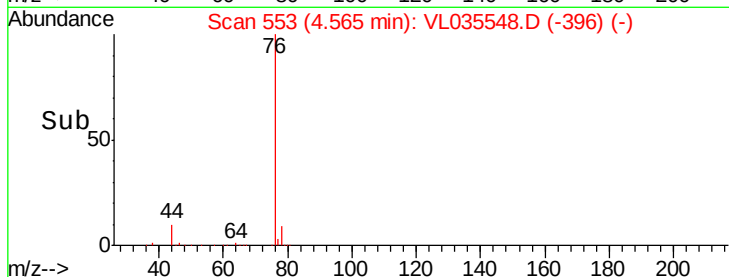
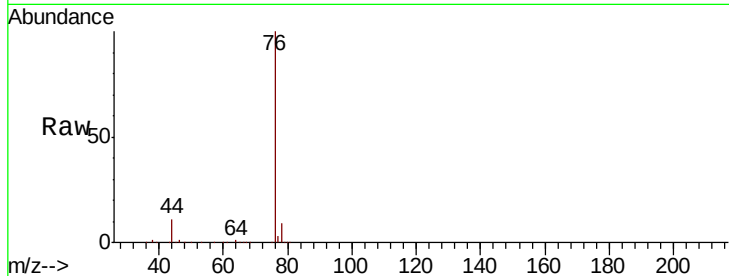
ClientSampleId :

SS-7DL

Tot Ion:	76	Resp:	471338
Ion Ratio	Lower	Upper	
76	100		
44	11.7	9.3	13.9
78	9.4	7.8	11.6

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#29

Chloroform

Concen: 0.178 ppbv

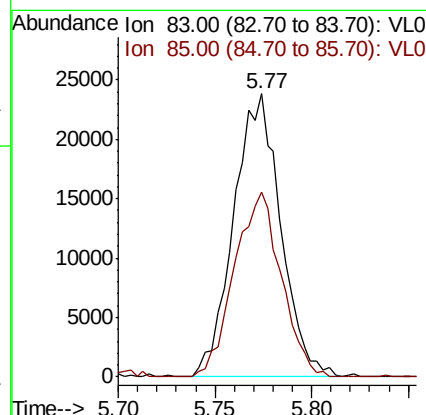
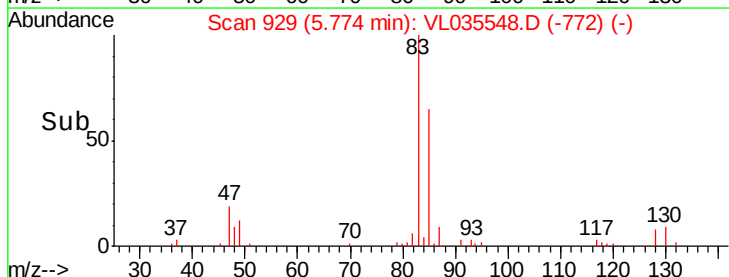
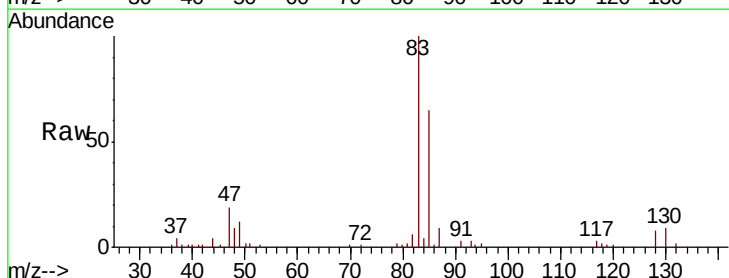
RT: 5.77 min Scan# 929

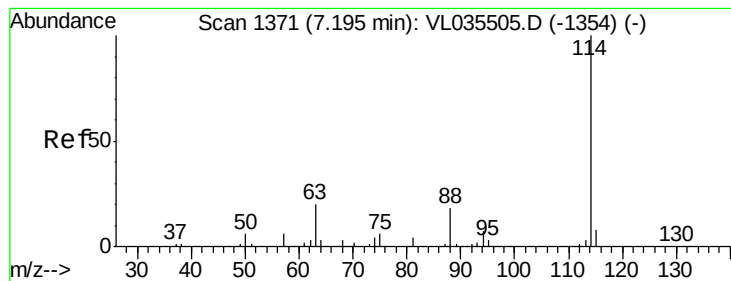
Delta R.T. 0.01 min

Lab File: VL035548.D

Acq: 4 Sep 2020 2:26

Tgt Ion:	83	Resp:	40271
Ion Ratio	Lower	Upper	
83	100		
85	65.1	53.9	80.9





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.20 min Scan# 1373

Delta R.T. 0.01 min

Lab File: VL035548.D

Acq: 4 Sep 2020 2:26

Instrument :

MSVOA_L

ClientSampled :

SS-7DL

Tot Ion:114 Resp: 4241585

Ion Ratio Lower Upper

114 100

63 18.4 14.7 22.1

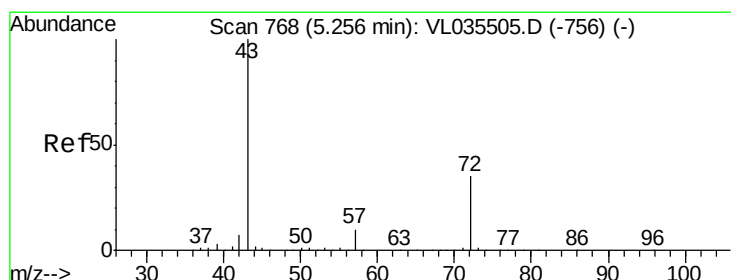
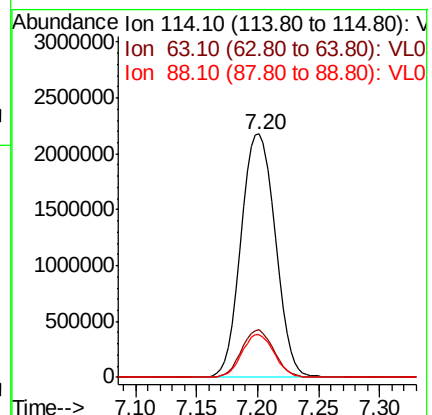
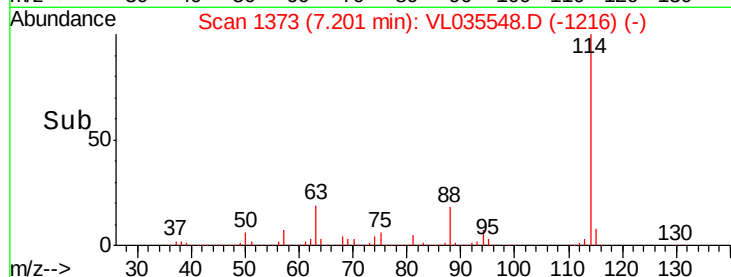
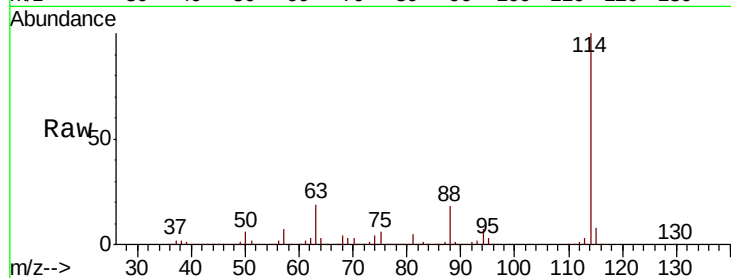
88 16.7 13.4 20.2

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#34

2-Butanone

Concen: 0.521 ppbv

RT: 5.27 min Scan# 771

Delta R.T. 0.01 min

Lab File: VL035548.D

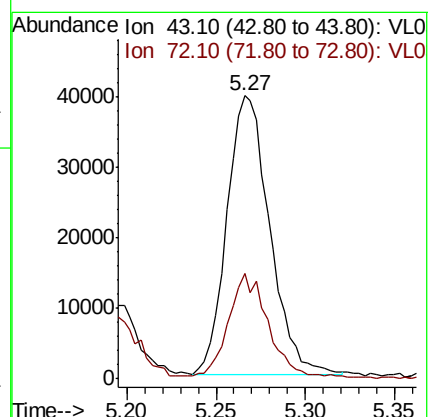
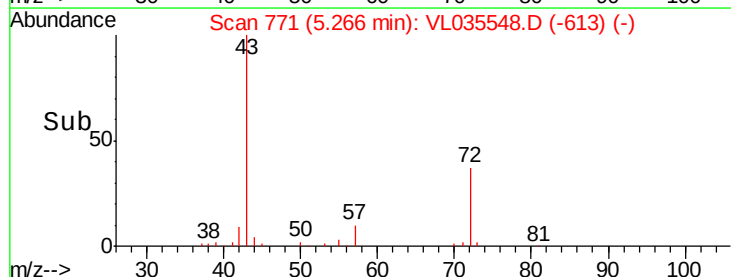
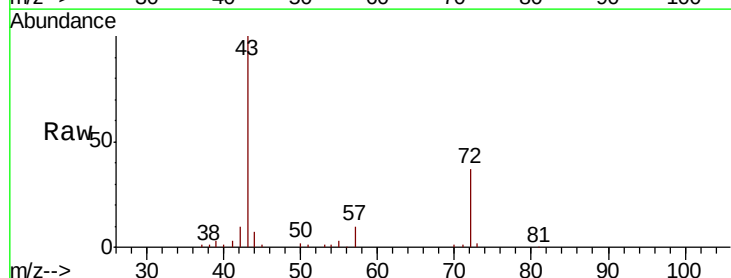
Acq: 4 Sep 2020 2:26

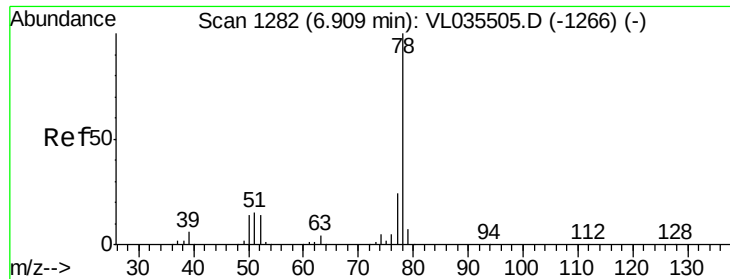
Tgt Ion: 43 Resp: 65527

Ion Ratio Lower Upper

43 100

72 36.8 27.7 41.5





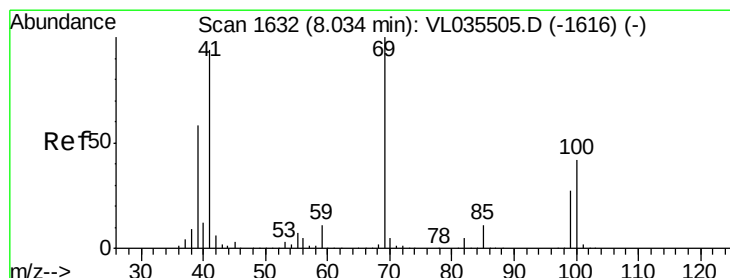
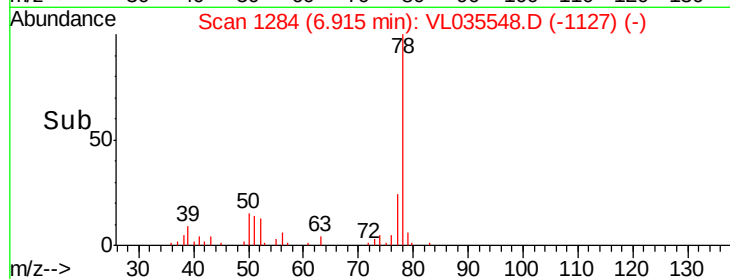
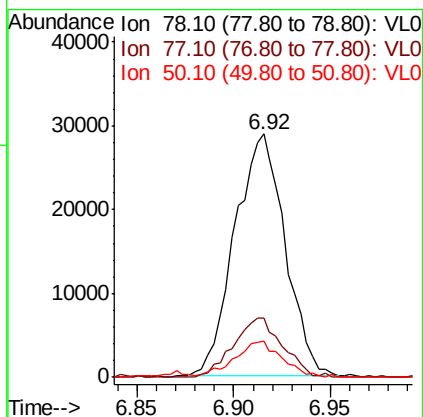
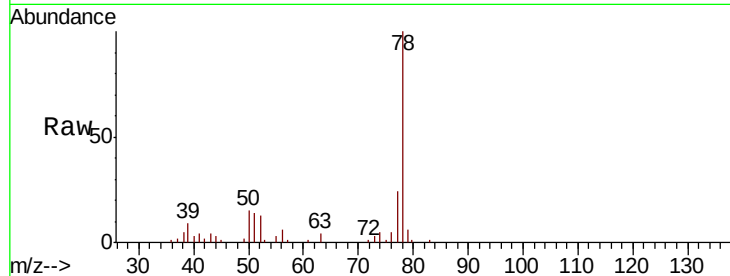
#36
Benzene
Concen: 0.190 ppbv
RT: 6.92 min Scan# 1284
Delta R.T. 0.01 min
Lab File: VL035548.D
Acq: 4 Sep 2020 2:26

Instrument :
MSVOA_L
ClientSampleId :
SS-7DL

Tot Ion	Ratio	Lower	Upper
78	100		
77	24.5	19.3	28.9
50	15.0	11.0	16.6

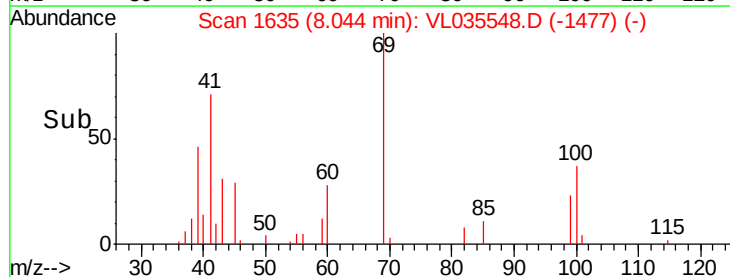
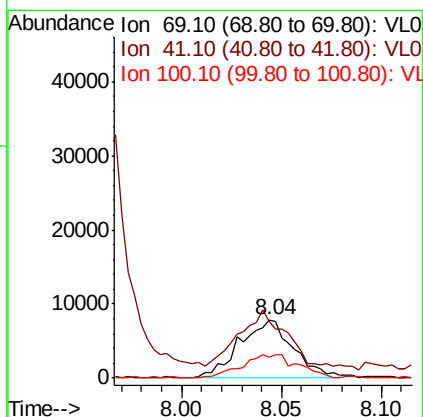
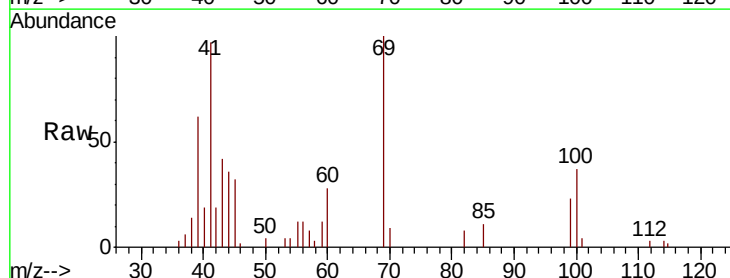
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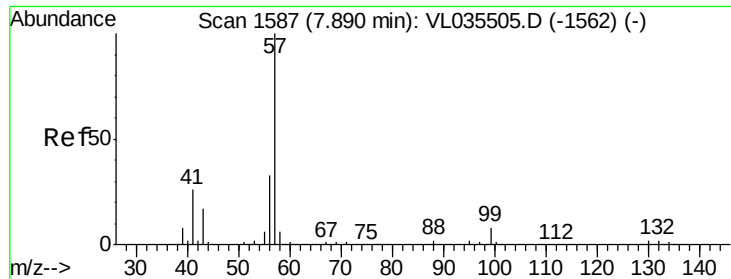
MMDadoda
9/8/2020 5:13:10 PM



#43
Methyl Methacrylate
Concen: 0.139 ppbv m
RT: 8.04 min Scan# 1635
Delta R.T. 0.01 min
Lab File: VL035548.D
Acq: 4 Sep 2020 2:26

Tgt Ion	Ratio	Lower	Upper
69	100		
41	0.0	76.6	114.8#
100	42.9	33.8	50.6





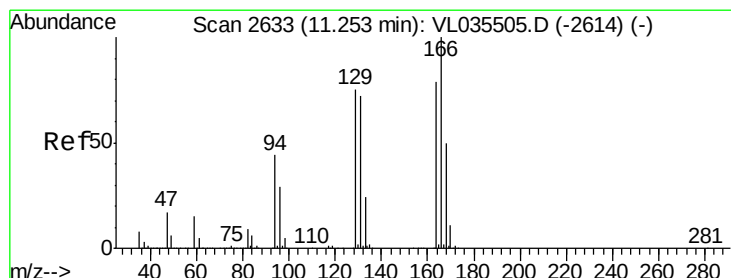
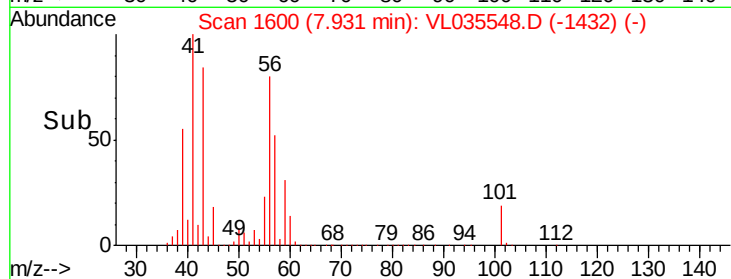
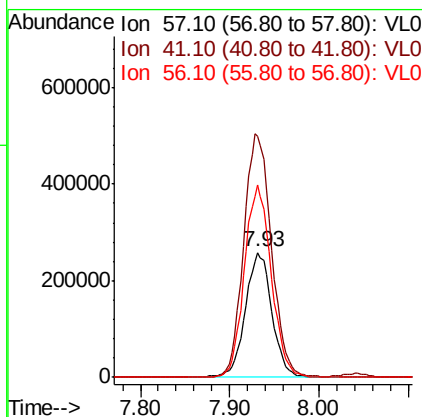
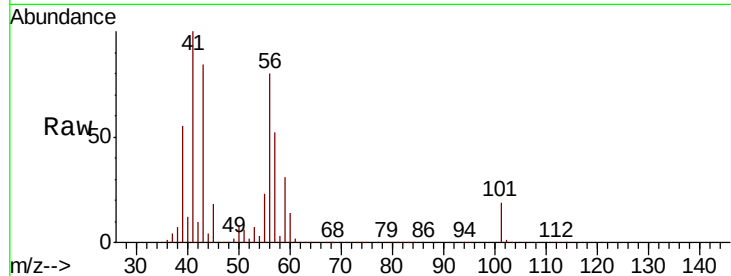
#44
2,2,4-Trimethylpentane
Concen: 1.478 ppbv
RT: 7.93 min Scan# 1600
Delta R.T. 0.04 min
Lab File: VL035548.D
Acq: 4 Sep 2020 2:26

Instrument :
MSVOA_L
ClientSampleId :
SS-7DL

Tot Ion	Ratio	Lower	Upper
57	100		
41	203.7	20.5	30.7#
56	155.7	25.3	37.9#

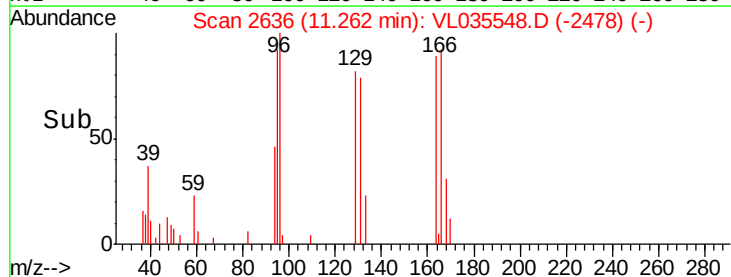
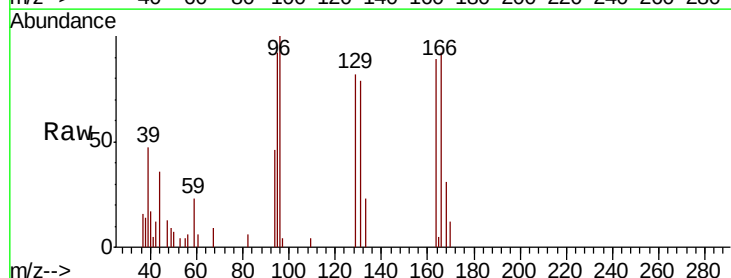
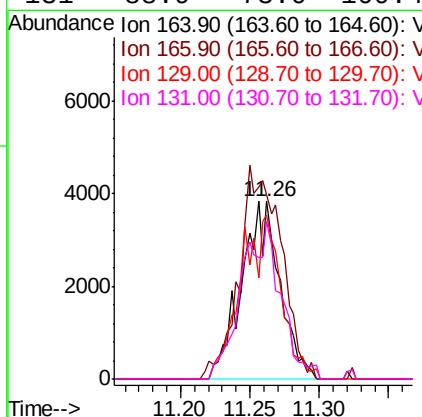
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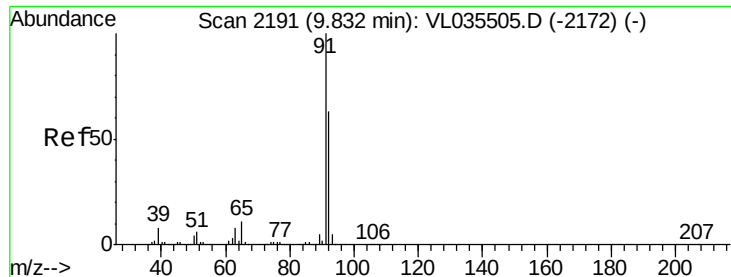
MMDadoda
9/8/2020 5:13:10 PM



#52
Tetrachloroethene
Concen: 0.046 ppbv m
RT: 11.26 min Scan# 2636
Delta R.T. 0.01 min
Lab File: VL035548.D
Acq: 4 Sep 2020 2:26

Tgt Ion	Ratio	Lower	Upper
164	100		
166	103.6	100.9	151.3
129	92.4	75.3	112.9
131	88.9	73.0	109.4





#53

Toluene

Concen: 0.393 ppbv

RT: 9.84 min Scan# 2193

Delta R.T. 0.01 min

Lab File: VL035548.D

Acq: 4 Sep 2020 2:26

Instrument :

MSVOA_L

ClientSampled :

SS-7DL

Tot Ion: 91 Resp: 135785

Ion Ratio Lower Upper

91 100

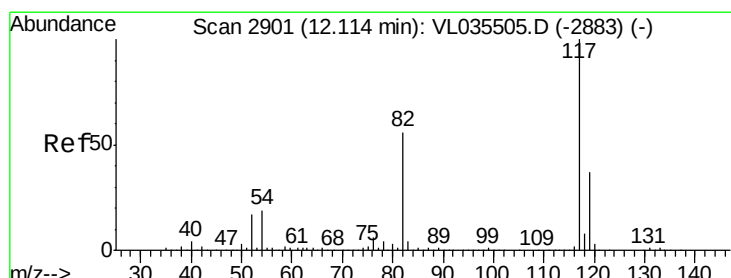
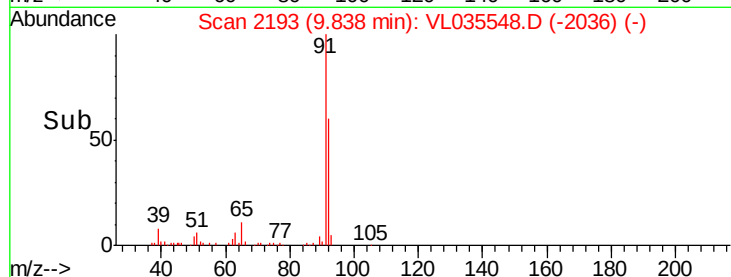
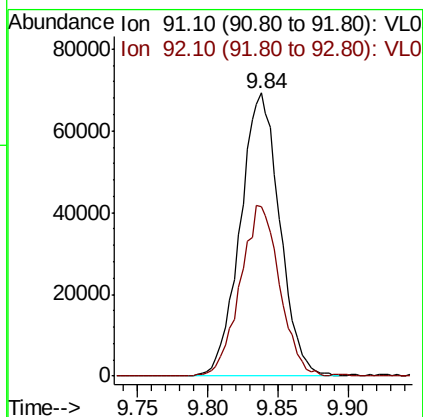
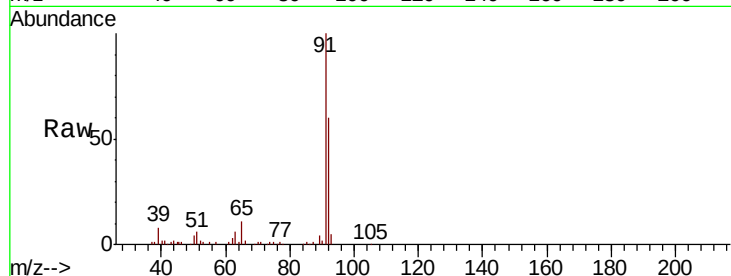
92 60.6 49.8 74.8

Manual Integrations

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.12 min Scan# 2903

Delta R.T. 0.01 min

Lab File: VL035548.D

Acq: 4 Sep 2020 2:26

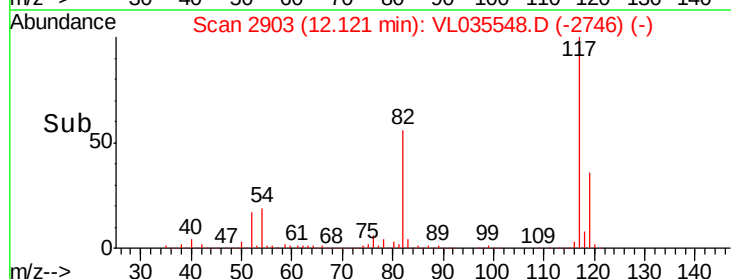
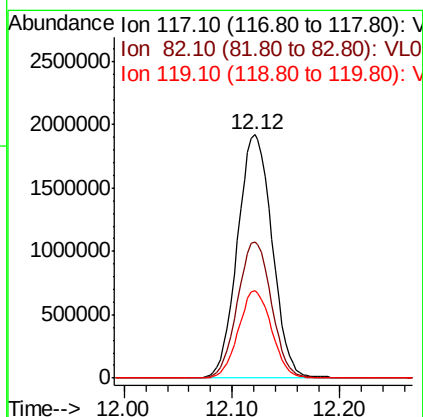
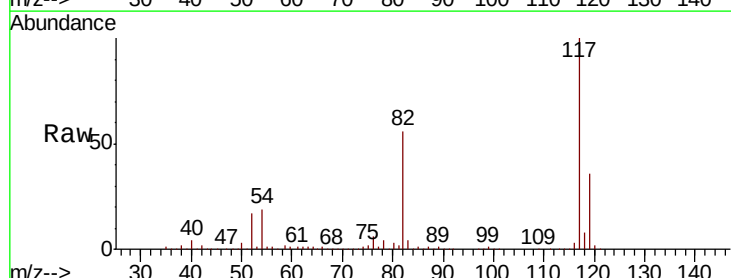
Tgt Ion: 117 Resp: 4298106

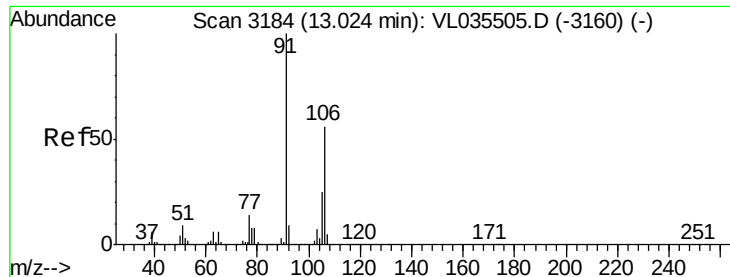
Ion Ratio Lower Upper

117 100

82 55.2 41.6 62.4

119 34.6 29.3 43.9





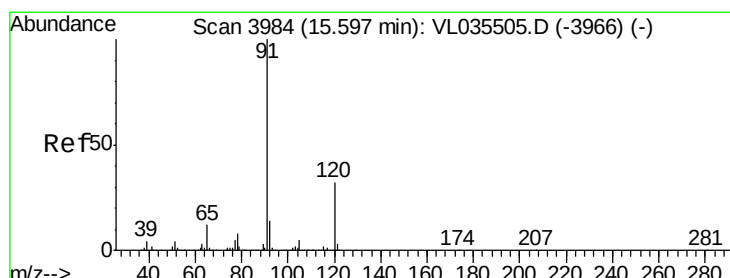
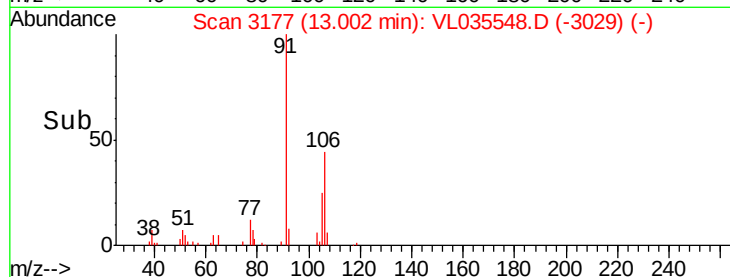
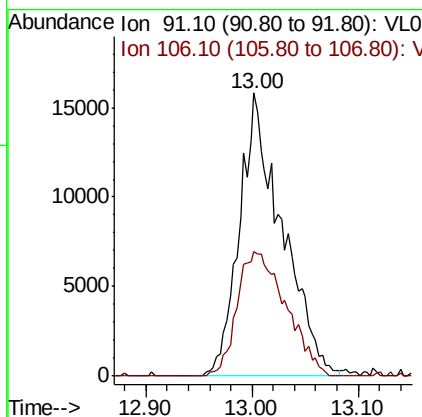
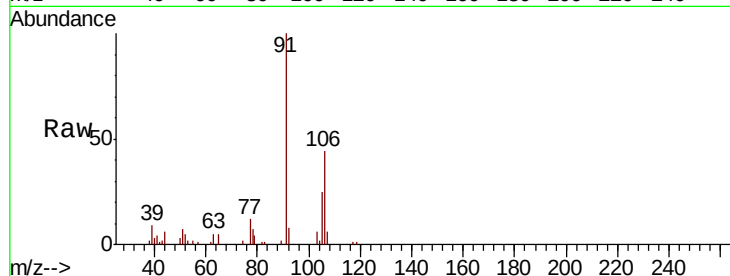
#59
m/p-Xylene
Concen: 0.119 ppbv m
RT: 13.00 min Scan# 3177
Delta R.T. -0.02 min
Lab File: VL035548.D
Acq: 4 Sep 2020 2:26

Instrument :
MSVOA_L
ClientSampled :
SS-7DL

Tot Ion: 91 Resp: 44075
Ion Ratio Lower Upper
91 100
106 0.0 43.4 65.2#

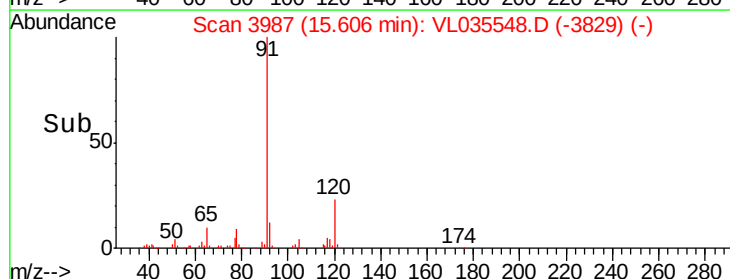
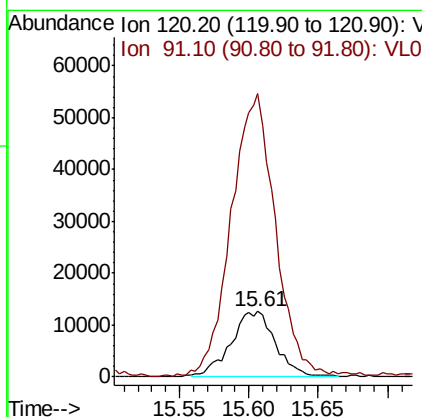
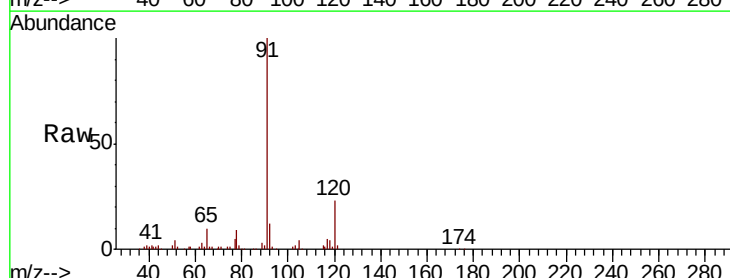
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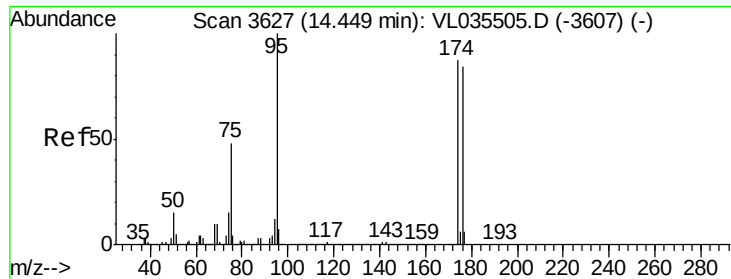
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#64
n-propylbenzene
Concen: 0.154 ppbv m
RT: 15.61 min Scan# 3987
Delta R.T. 0.01 min
Lab File: VL035548.D
Acq: 4 Sep 2020 2:26

Tgt Ion:120 Resp: 28223
Ion Ratio Lower Upper
120 100
91 433.6 279.4 419.0#





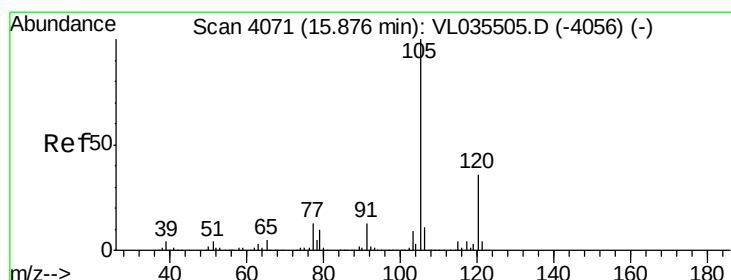
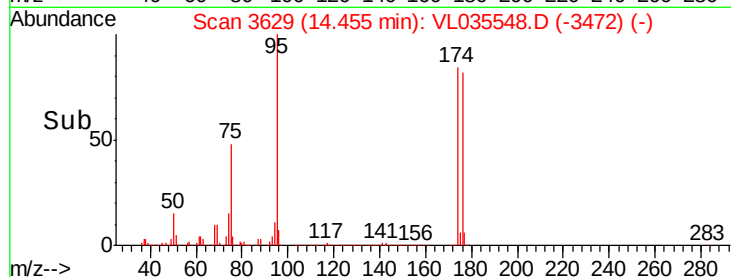
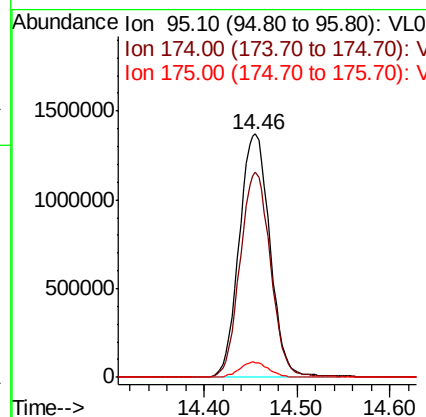
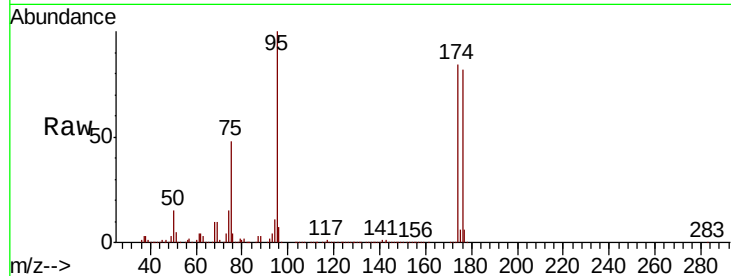
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.322 ppbv
 RT: 14.46 min Scan# 3629
 Delta R.T. 0.01 min
 Lab File: VL035548.D
 Acq: 4 Sep 2020 2:26

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-7DL

Tot Ion: 95 Resp: 3150653
 Ion Ratio Lower Upper
 95 100
 174 84.4 69.6 104.4
 175 6.1 5.1 7.7

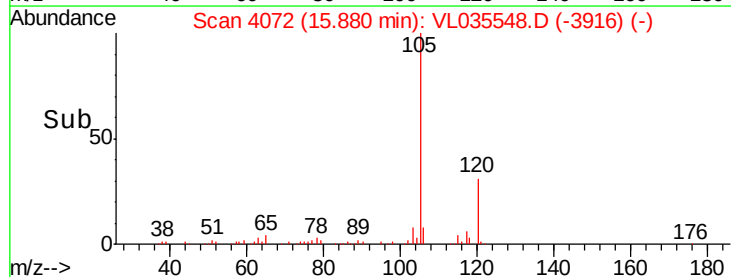
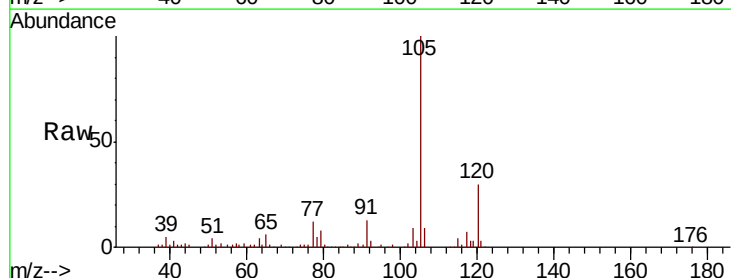
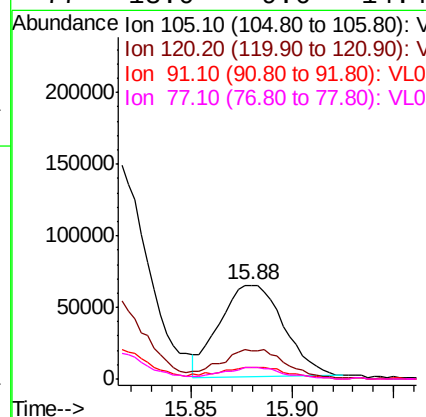
Manual Integrations
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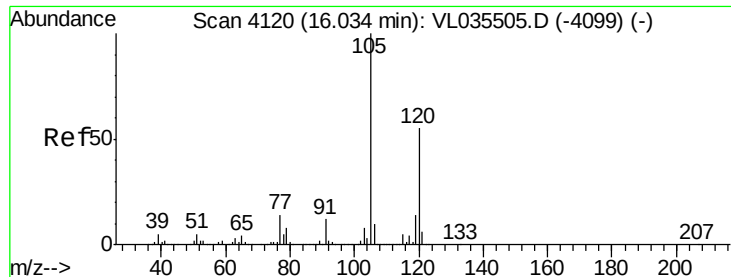
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 9/8/2020 5:13:10 PM



#72
 4-Ethyltoluene
 Concen: 0.300 ppbv
 RT: 15.88 min Scan# 4072
 Delta R.T. 0.00 min
 Lab File: VL035548.D
 Acq: 4 Sep 2020 2:26

Tgt Ion: 105 Resp: 142297
 Ion Ratio Lower Upper
 105 100
 120 33.7 27.4 41.2
 91 13.8 9.7 14.5
 77 13.0 9.6 14.4





#73

1,3,5-Trimethylbenzene

Concen: 0.256 ppbv

RT: 16.04 min Scan# 4122

Delta R.T. 0.01 min

Lab File: VL035548.D

Acq: 4 Sep 2020 2:26

Instrument :

MSVOA_L

ClientSampled :

SS-7DL

Tot Ion:105 Resp: 112466

Ion Ratio Lower Upper

105 100

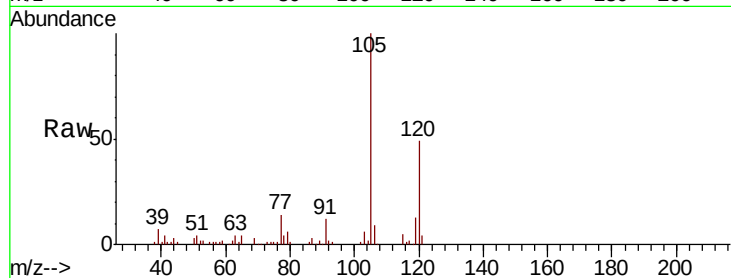
120 49.5 44.2 66.2

Manual Integrations

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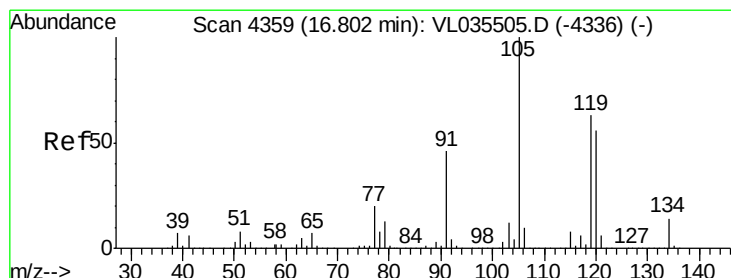
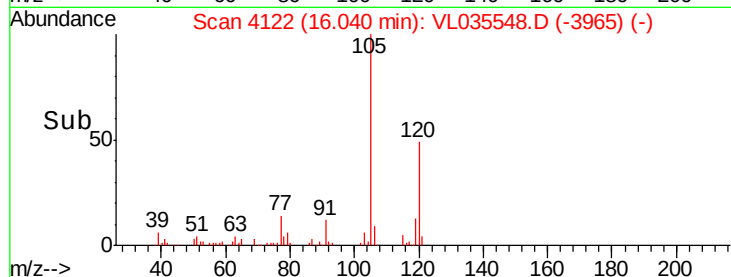
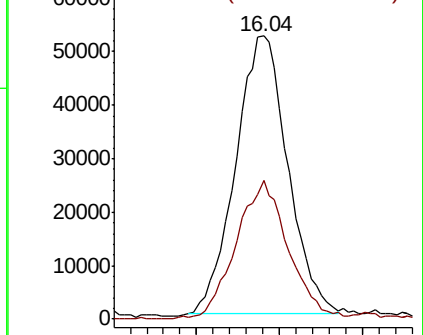
MMDadoda

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.704 ppbv

RT: 16.81 min Scan# 4360

Delta R.T. 0.00 min

Lab File: VL035548.D

Acq: 4 Sep 2020 2:26

Tgt Ion:105 Resp: 338929

Ion Ratio Lower Upper

105 100

120 46.9 44.4 66.6

91 10.6 37.1 55.7#

77 10.8 16.0 24.0#

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

