

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081820\
 Data File : VL035456.D
 Acq On : 19 Aug 2020 00:21
 Operator : SY/AP
 Sample : L3725-01DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-02DL

Manual Integrations
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 8/20/2020 11:07:33 AM

Quant Time: Aug 19 04:19:15 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 18 2020
 QLast Update : Mon Aug 17 19:28:30 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1105032	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	5144914	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	5083251	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	3683349	10.35	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.99	51	60056	0.433	ppbv	93
9) Propene	3.01	41	10244m	0.184	ppbv	
13) Ethanol	3.62	45	13941m	0.683	ppbv	
15) Acetone	3.87	43	126009	0.991	ppbv #	70
20) Methylene Chloride	4.35	84	27064	0.264	ppbv #	62
26) Hexane	5.70	57	14949	0.107	ppbv #	32
29) Chloroform	5.76	83	213110	0.759	ppbv	99
34) 2-Butanone	5.28	43	31106	0.181	ppbv #	65
41) Tetrahydrofuran	6.10	42	9860m	0.104	ppbv	
52) Tetrachloroethene	11.25	164	13265	0.058	ppbv #	73
53) Toluene	9.82	91	74708	0.154	ppbv	99
59) m/p-Xylene	12.99	91	58588m	0.113	ppbv	
72) 4-Ethyltoluene	15.86	105	84058	0.127	ppbv #	92
73) 1,3,5-Trimethylbenzene	16.03	105	60558m	0.098	ppbv	
74) 1,2,4-Trimethylbenzene	16.79	105	137415	0.205	ppbv #	71

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

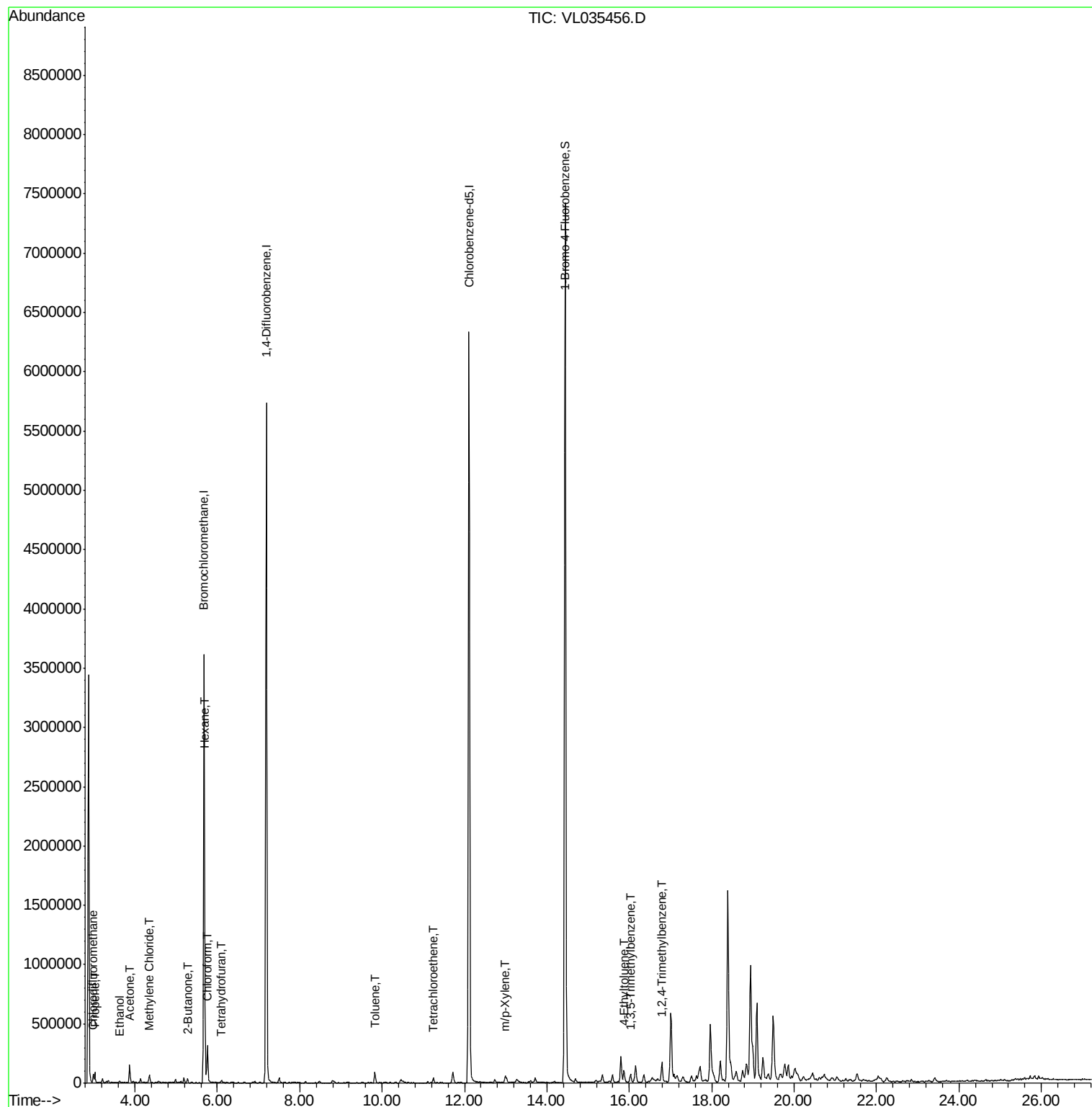
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081820\
Data File : VL035456.D
Acq On : 19 Aug 2020 00:21
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Sample : L3725-01DL 40X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

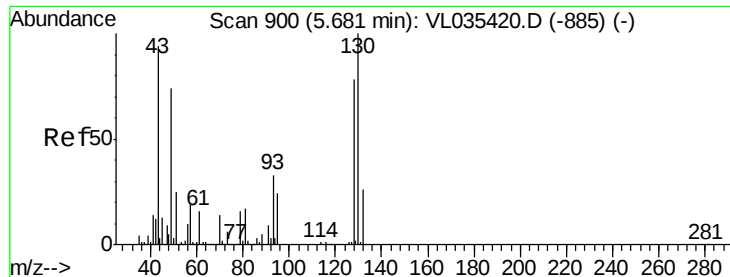
Instrument :
MSVOA_L
ClientSampleId :
SS-02DL

Manual Integrations
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Quant Time: Aug 19 04:19:15 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug
QLast Update : Mon Aug 17 19:28:30 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.00 min

Lab File: VL035456.D

Acq: 19 Aug 2020 00:21

Instrument :

MSVOA_L

ClientSampleId :

SS-02DL

Tot Ion: 49 Resp: 1105032

Ion Ratio Lower Upper

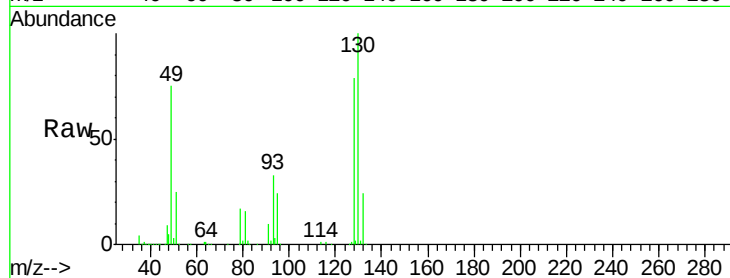
49 100

128 106.1 20.9 62.7#

130 136.0 26.7 80.1#

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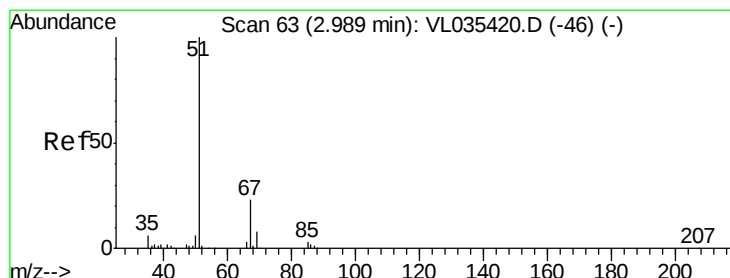
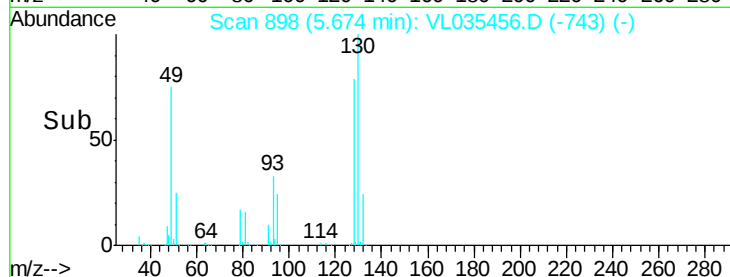
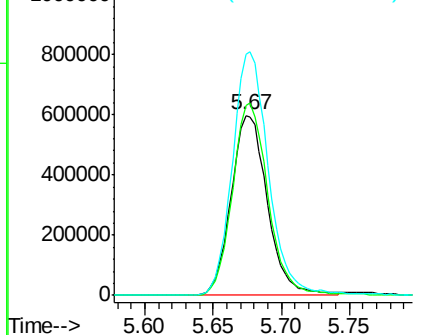
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 0.433 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.01 min

Lab File: VL035456.D

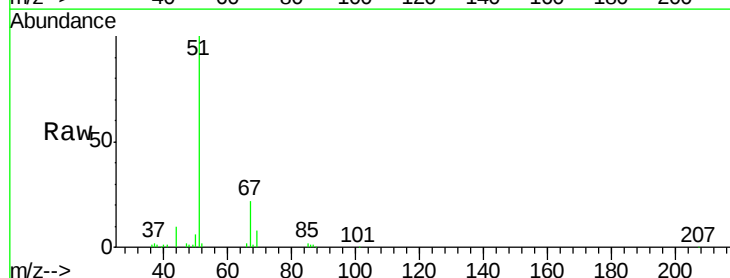
Acq: 19 Aug 2020 00:21

Tgt Ion: 51 Resp: 60056

Ion Ratio Lower Upper

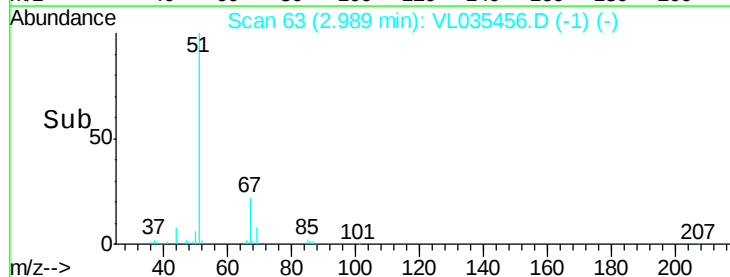
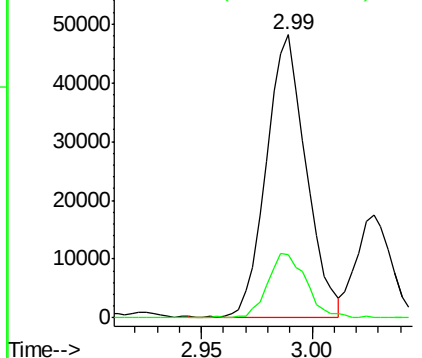
51 100

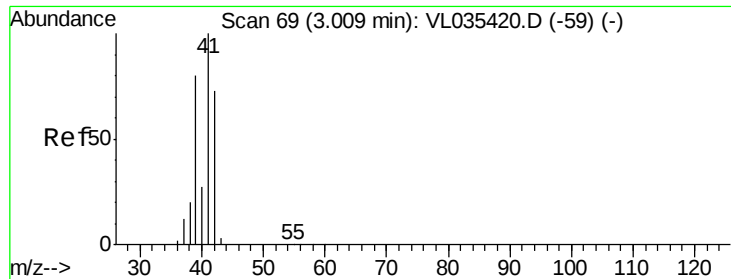
67 21.9 15.0 22.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.184 ppbv m

RT: 3.01 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL035456.D

Acq: 19 Aug 2020 00:21

Instrument :

MSVOA_L

ClientSampleId :

SS-02DL

Tot Ion: 41 Resp: 10244

Ion Ratio Lower Upper

41 100

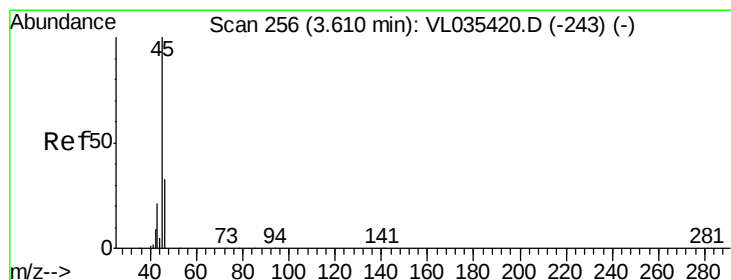
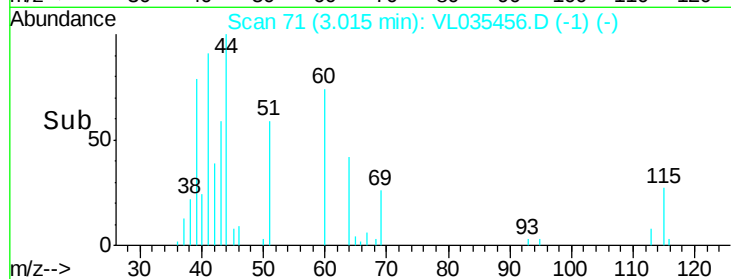
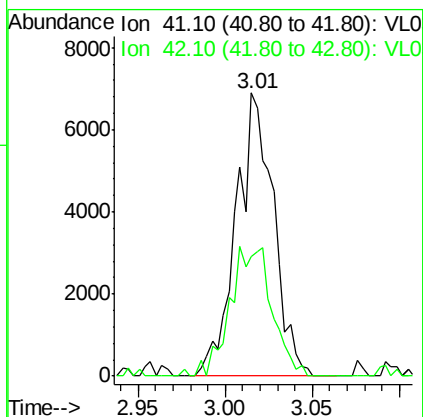
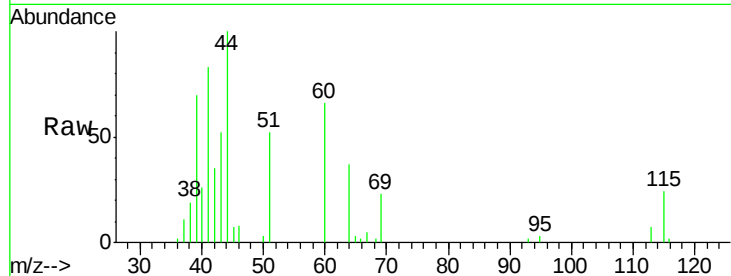
42 51.5 55.5 83.3#

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#13

Ethanol

Concen: 0.683 ppbv m

RT: 3.62 min Scan# 260

Delta R.T. 0.02 min

Lab File: VL035456.D

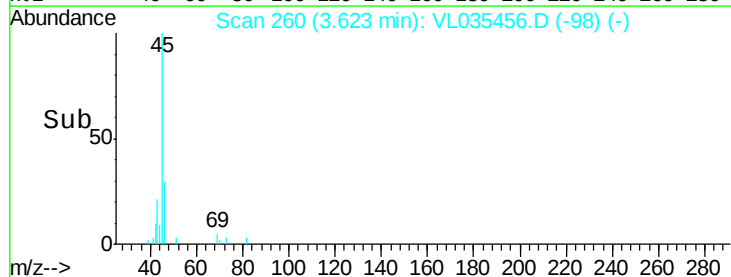
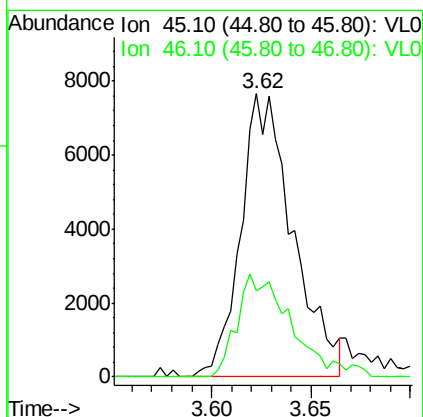
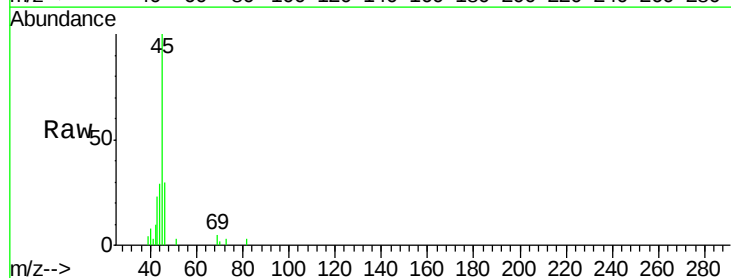
Acq: 19 Aug 2020 00:21

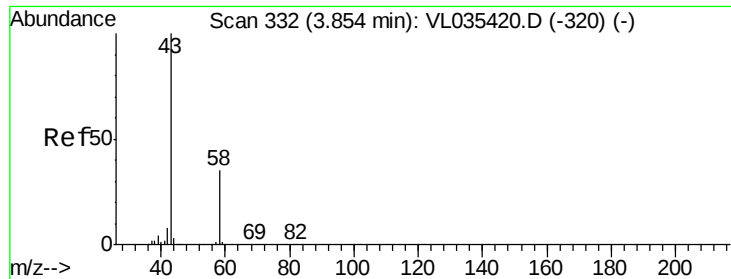
Tgt Ion: 45 Resp: 13941

Ion Ratio Lower Upper

45 100

46 37.8 14.2 56.6





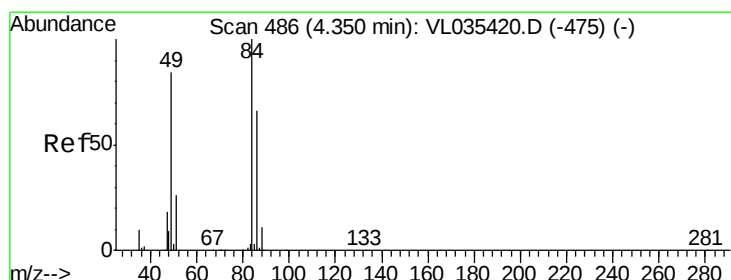
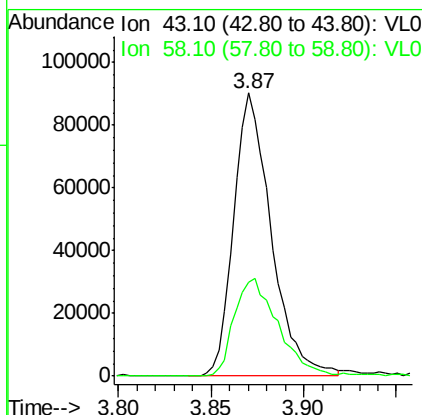
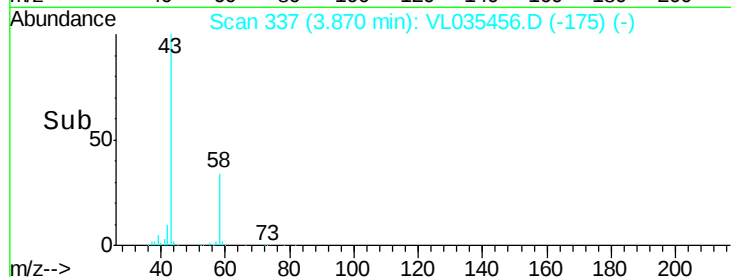
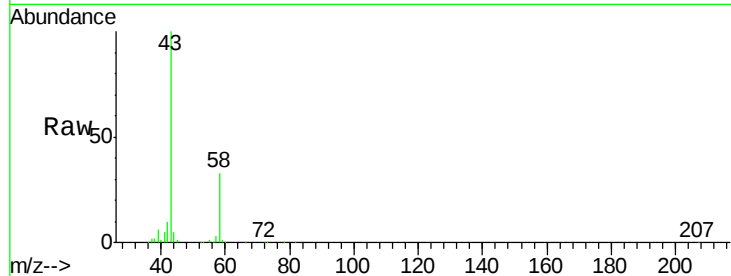
#15
Acetone
Concen: 0.991 ppbv
RT: 3.87 min Scan# 337
Delta R.T. 0.02 min
Lab File: VL035456.D
Acq: 19 Aug 2020 00:21

Instrument :
MSVOA_L
ClientSampleId :
SS-02DL

Tot Ion: 43 Resp: 126009
Ion Ratio Lower Upper
43 100
58 41.4 21.0 31.6#

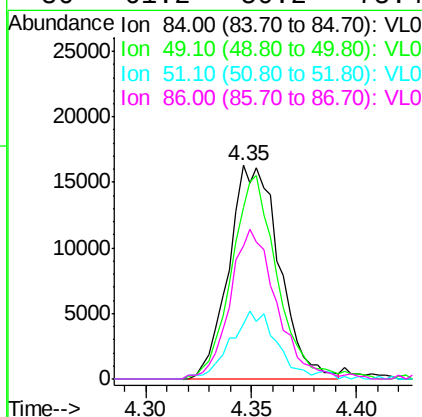
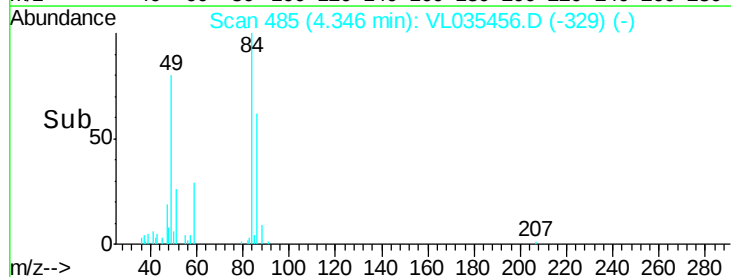
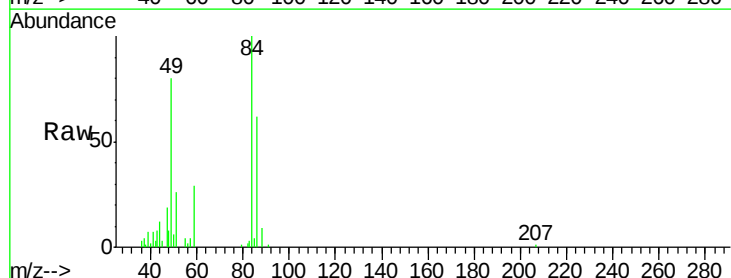
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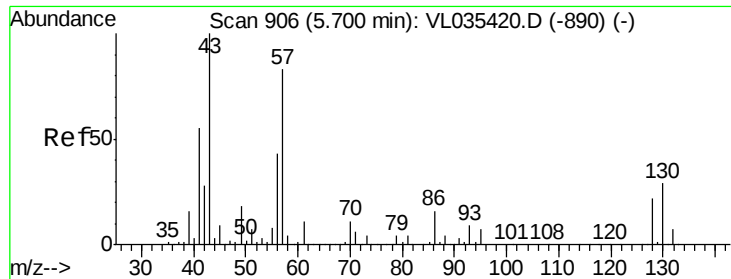
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#20
Methylene Chloride
Concen: 0.264 ppbv
RT: 4.35 min Scan# 485
Delta R.T. 0.00 min
Lab File: VL035456.D
Acq: 19 Aug 2020 00:21

Tgt Ion: 84 Resp: 27064
Ion Ratio Lower Upper
84 100
49 78.9 118.6 177.8#
51 25.9 36.4 54.6#
86 61.2 50.2 75.4





#26

Hexane

Concen: 0.107 ppbv

RT: 5.70 min Scan# 905

Delta R.T. 0.00 min

Lab File: VL035456.D

Acq: 19 Aug 2020 00:21

Instrument :

MSVOA_L

ClientSampleID :

SS-02DL

Tot Ion: 57 Resp: 14949

Ion Ratio Lower Upper

57 100

41 69.4 75.5 113.3#

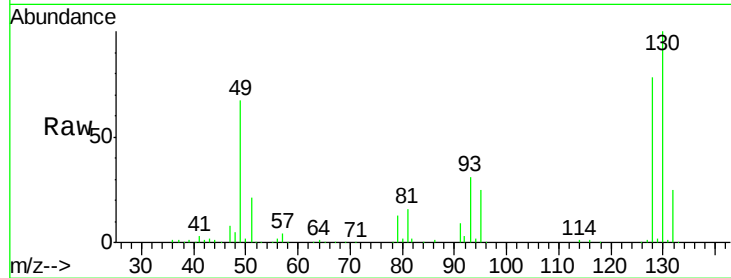
43 61.6 181.7 272.5#

56 53.8 42.4 63.6

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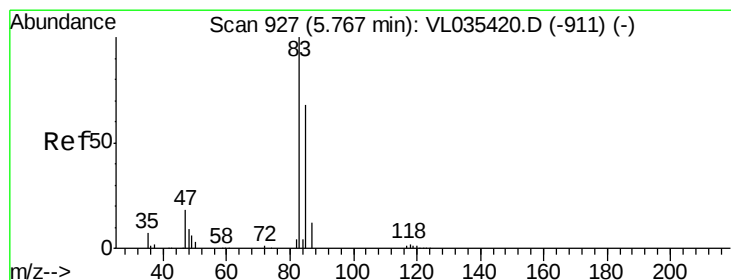
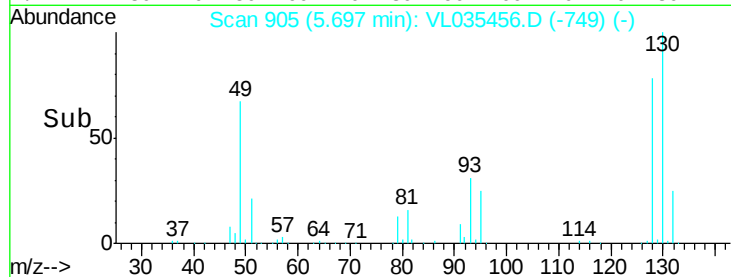
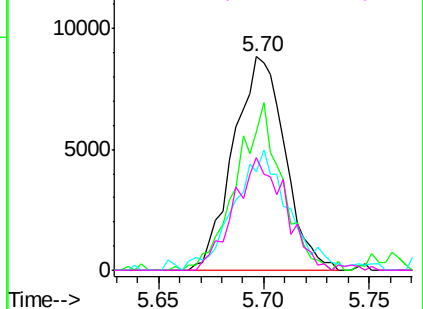


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#29

Chloroform

Concen: 0.759 ppbv

RT: 5.76 min Scan# 924

Delta R.T. -0.00 min

Lab File: VL035456.D

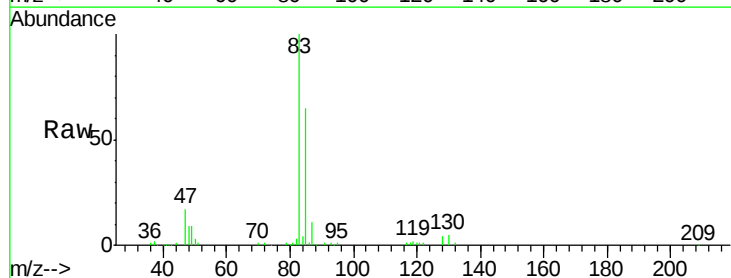
Acq: 19 Aug 2020 00:21

Tgt Ion: 83 Resp: 213110

Ion Ratio Lower Upper

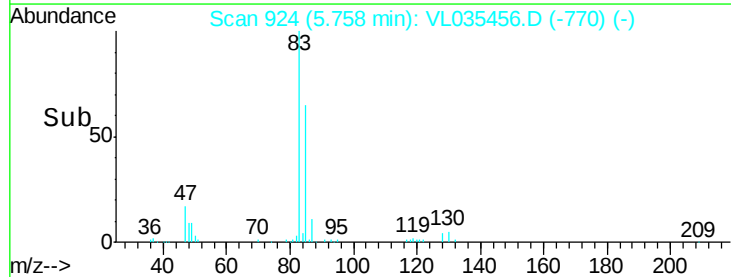
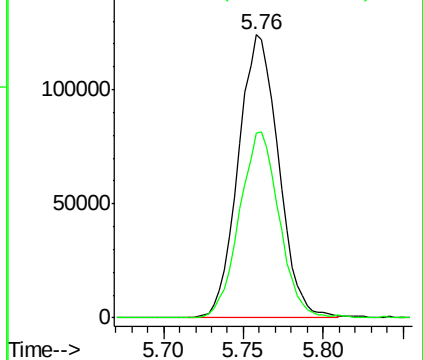
83 100

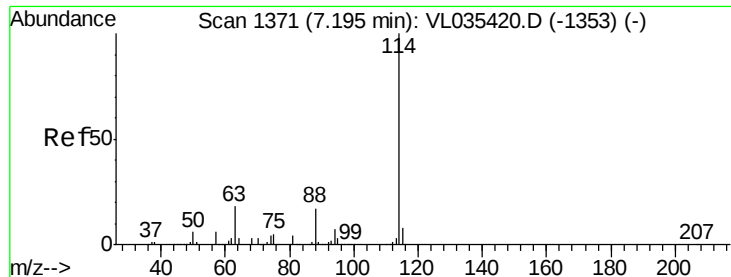
85 65.3 52.7 79.1



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0





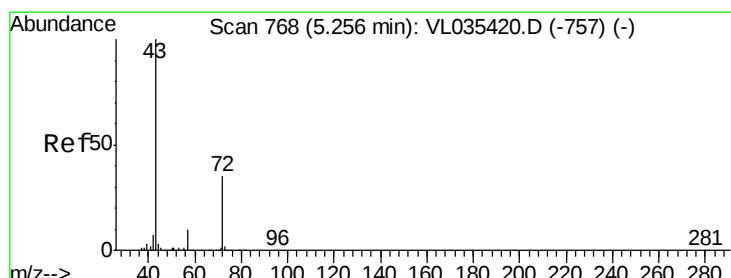
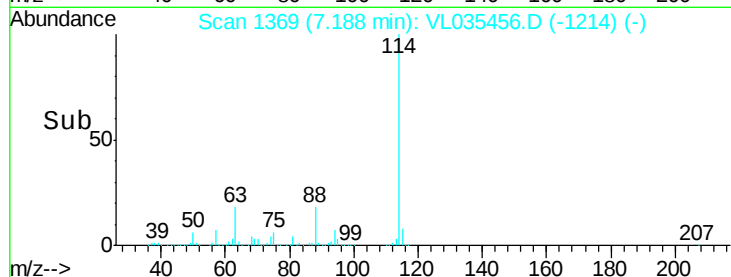
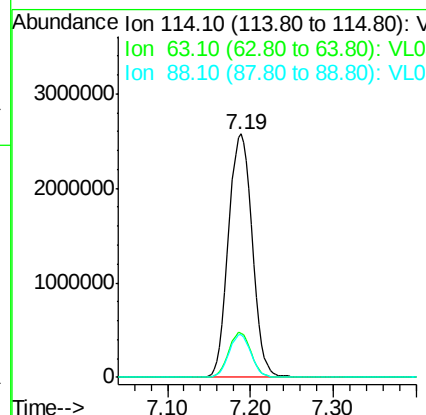
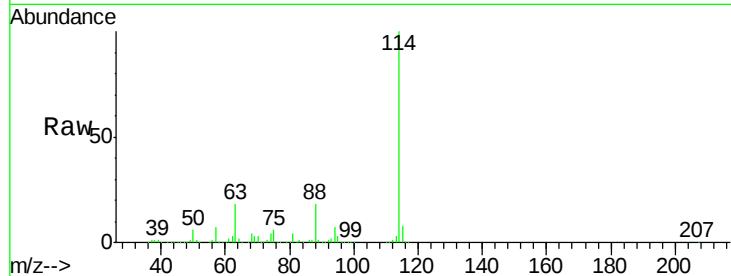
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1369
 Delta R.T. -0.00 min
 Lab File: VL035456.D
 Acq: 19 Aug 2020 00:21

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-02DL

Tot Ion:114 Resp: 5144914
 Ion Ratio Lower Upper
 114 100
 63 17.3 23.1 34.7#
 88 16.4 15.9 23.9

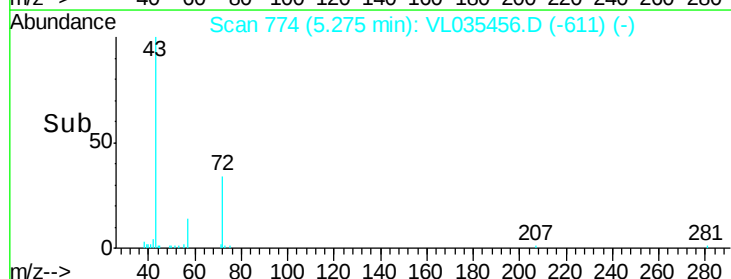
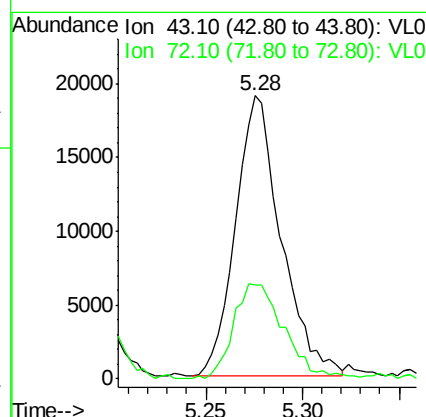
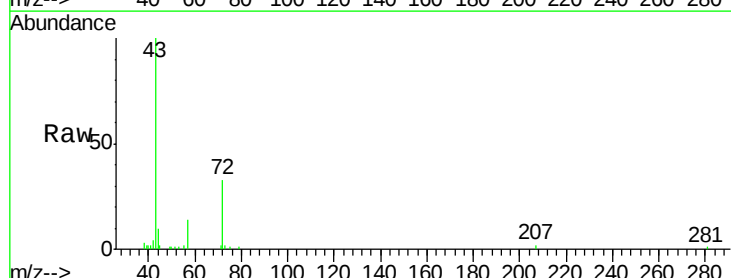
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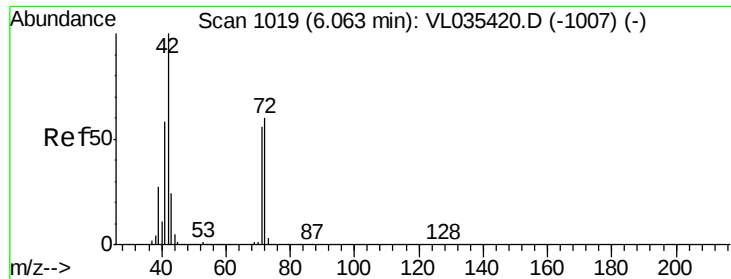
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#34
 2-Butanone
 Concen: 0.181 ppbv
 RT: 5.28 min Scan# 774
 Delta R.T. 0.03 min
 Lab File: VL035456.D
 Acq: 19 Aug 2020 00:21

Tgt Ion: 43 Resp: 31106
 Ion Ratio Lower Upper
 43 100
 72 38.6 17.6 26.4#





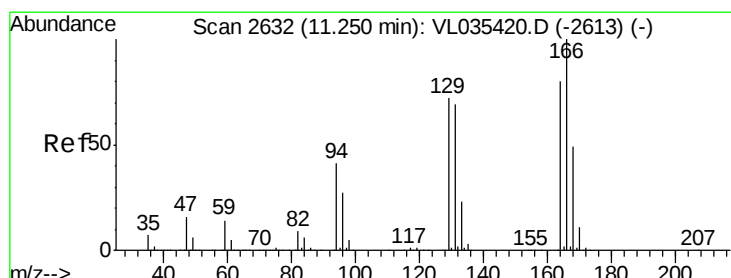
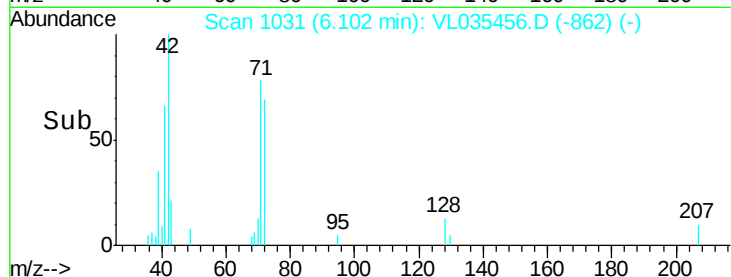
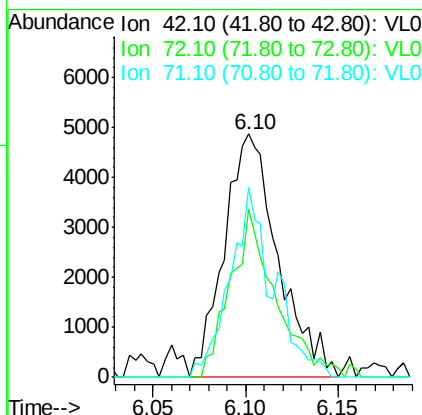
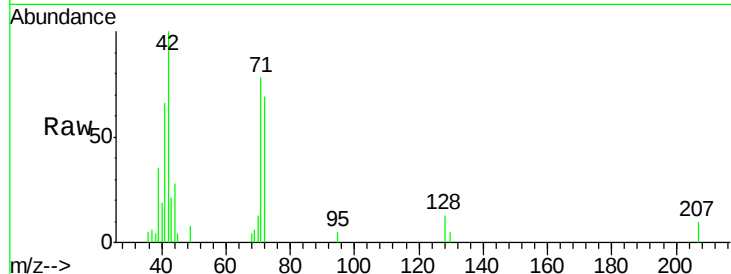
#41
Tetrahydrofuran
Concen: 0.104 ppbv m
RT: 6.10 min Scan# 1031
Delta R.T. 0.04 min
Lab File: VL035456.D
Acq: 19 Aug 2020 00:21

Instrument :
MSVOA_L
ClientSampleId :
SS-02DL

Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	29.4	44.2#
71	0.0	28.9	43.3#

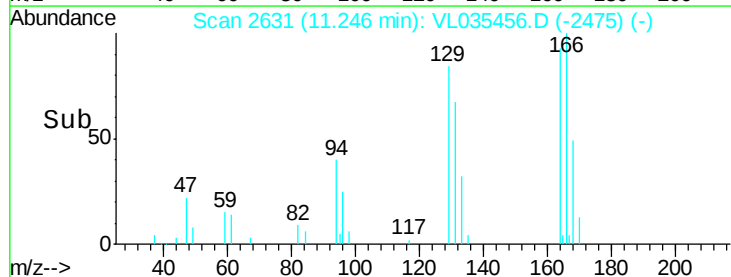
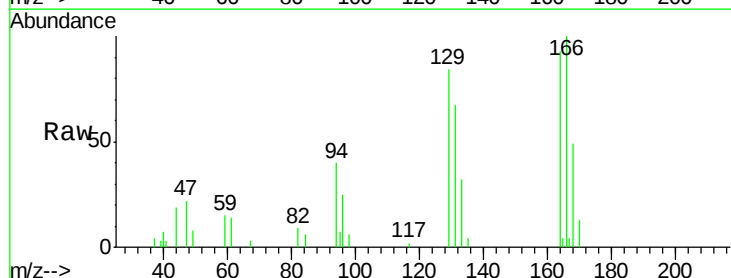
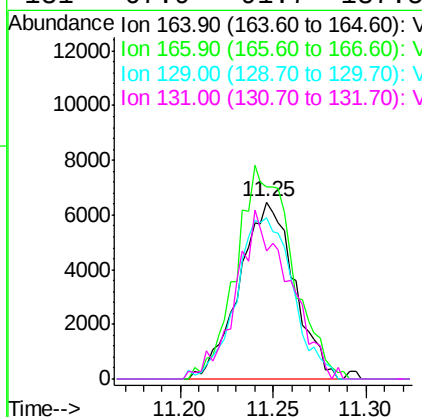
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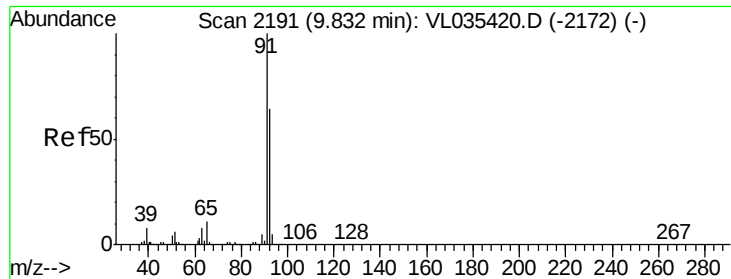
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#52
Tetrachloroethene
Concen: 0.058 ppbv
RT: 11.25 min Scan# 2631
Delta R.T. 0.00 min
Lab File: VL035456.D
Acq: 19 Aug 2020 00:21

Tgt Ion	Ratio	Lower	Upper
164	100		
166	108.1	103.4	155.0
129	91.1	90.2	135.4
131	67.9	91.7	137.5#





#53

Toluene

Concen: 0.154 ppbv

RT: 9.82 min Scan# 2188

Delta R.T. -0.00 min

Lab File: VL035456.D

Acq: 19 Aug 2020 00:21

Instrument :

MSVOA_L

ClientSampleId :

SS-02DL

Tot Ion: 91 Resp: 74708

Ion Ratio Lower Upper

91 100

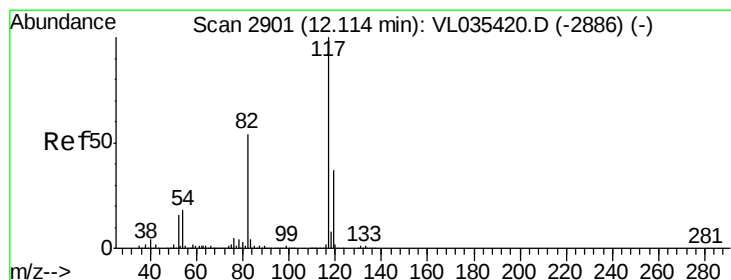
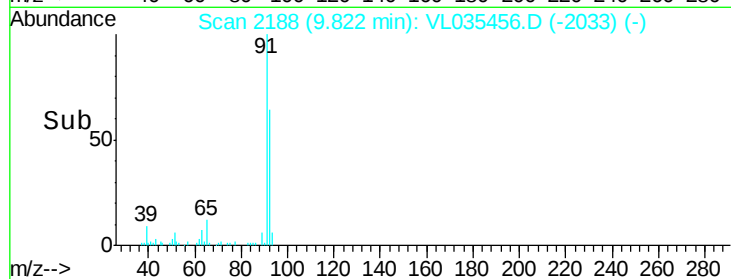
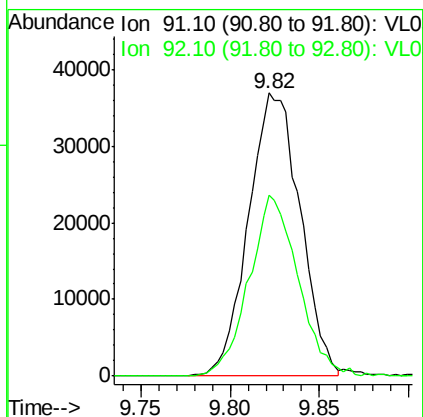
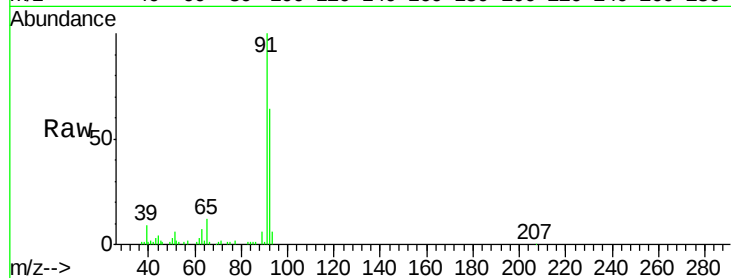
92 60.9 49.1 73.7

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2899

Delta R.T. -0.00 min

Lab File: VL035456.D

Acq: 19 Aug 2020 00:21

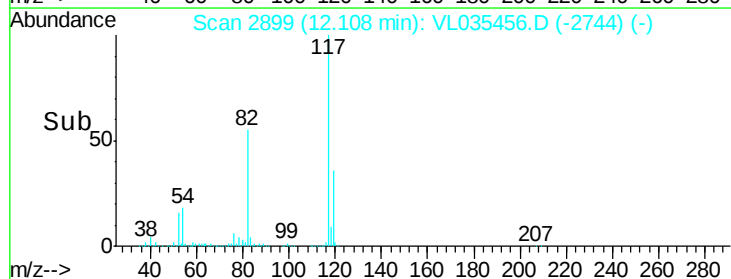
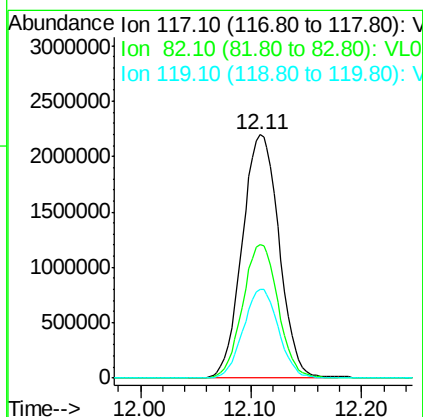
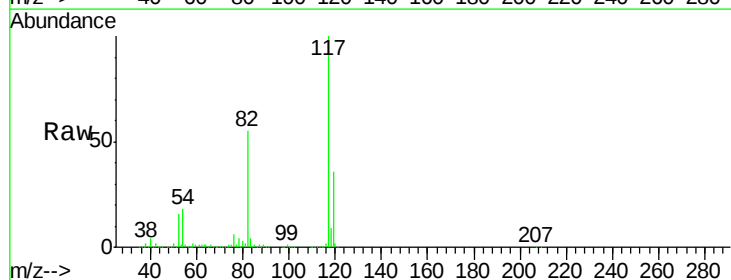
Tgt Ion: 117 Resp: 5083251

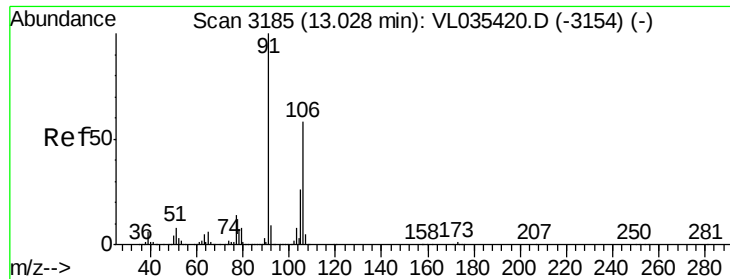
Ion Ratio Lower Upper

117 100

82 53.2 57.4 86.0#

119 35.2 28.4 42.6





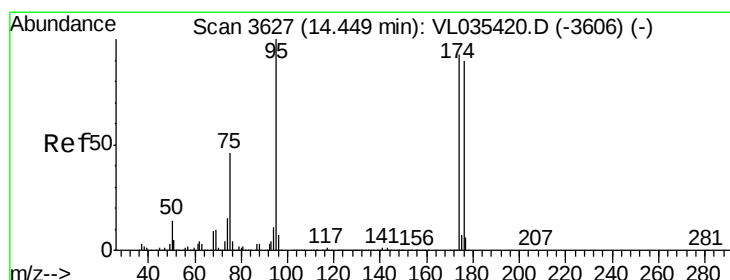
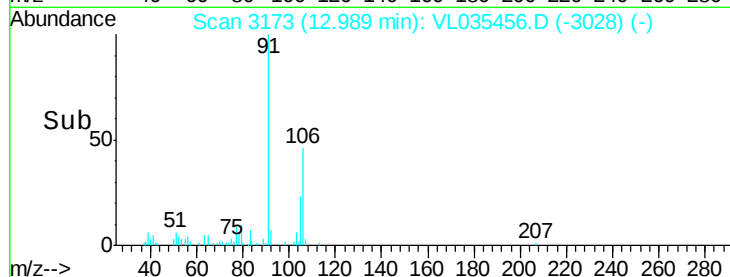
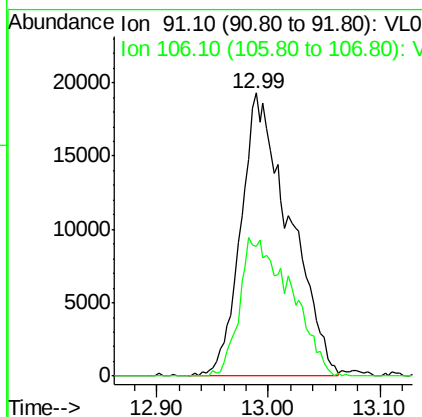
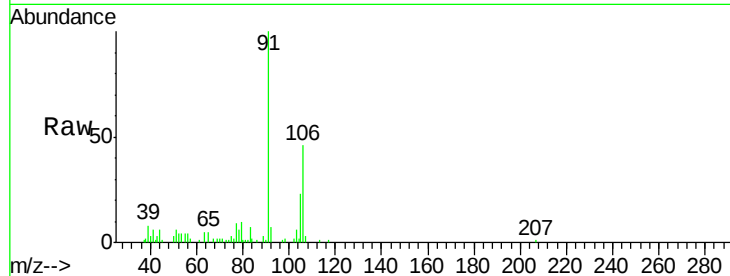
#59
m/p-Xylene
Concen: 0.113 ppbv m
RT: 12.99 min Scan# 3173
Delta R.T. -0.03 min
Lab File: VL035456.D
Acq: 19 Aug 2020 00:21

Instrument :
MSVOA_L
ClientSampleId :
SS-02DL

Tot Ion: 91 Resp: 58588
Ion Ratio Lower Upper
91 100
106 0.0 34.0 51.0#

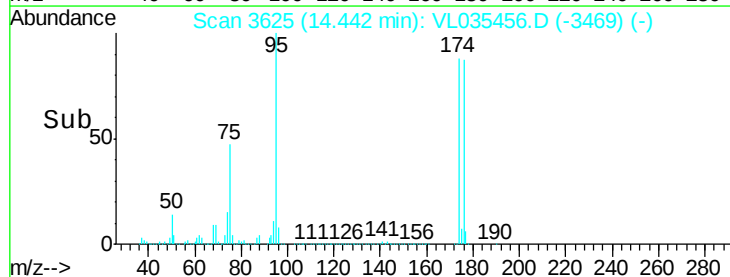
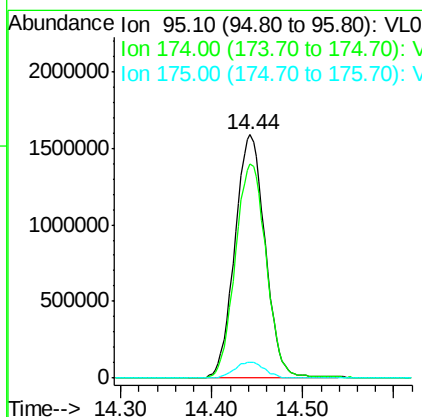
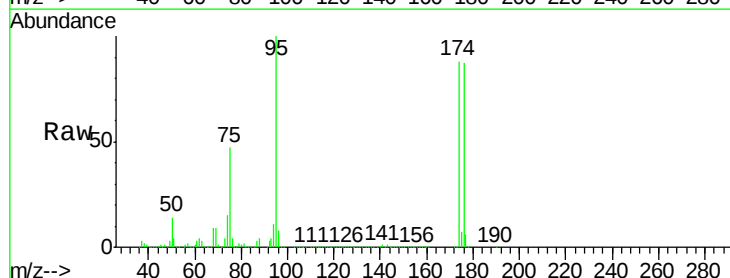
Manual Integrations
APPROVED

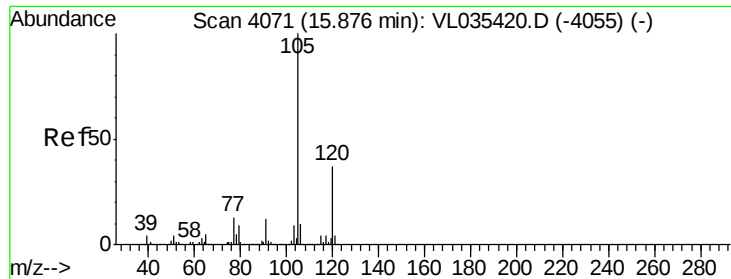
MMDadoda
8/20/2020 11:07:33 AM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.350 ppbv
RT: 14.44 min Scan# 3625
Delta R.T. 0.00 min
Lab File: VL035456.D
Acq: 19 Aug 2020 00:21

Tgt Ion: 95 Resp: 3683349
Ion Ratio Lower Upper
95 100
174 90.6 44.0 66.0#
175 6.6 3.2 4.8#





#72

4-Ethyltoluene

Concen: 0.127 ppbv

RT: 15.86 min Scan# 4067

Delta R.T. -0.00 min

Lab File: VL035456.D

Acq: 19 Aug 2020 00:21

Instrument :

MSVOA_L

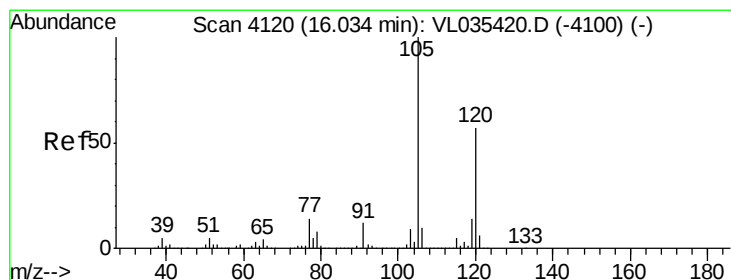
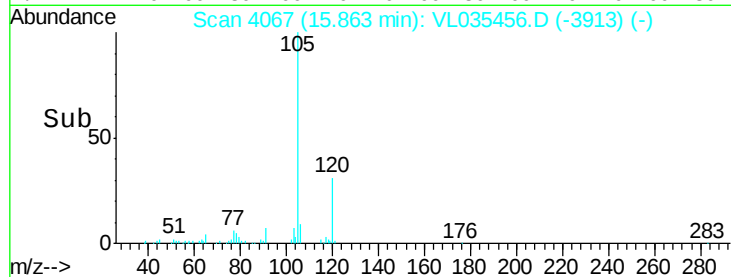
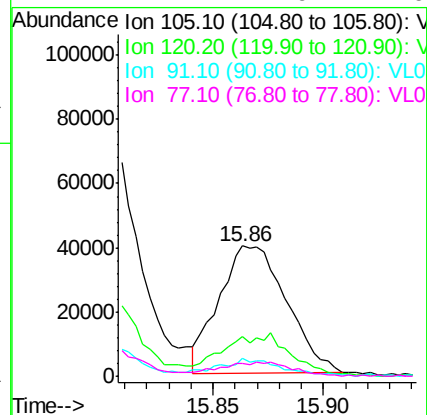
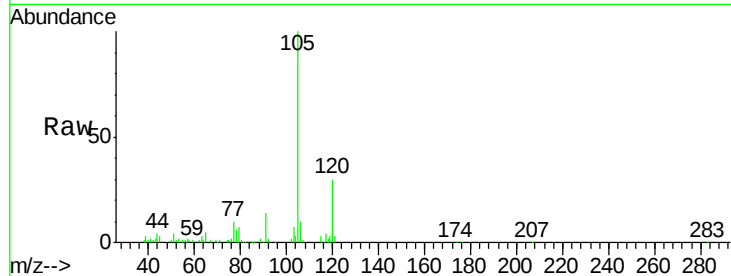
ClientSampled :

SS-02DL

Tot Ion	105	Resp	84058
Ion Ratio	Lower	Upper	
105	100		
120	34.7	22.7	34.1#
91	13.8	10.8	16.2
77	12.4	11.9	17.9

Manual Integrations
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8/20/2020 11:07:33 AM



#73

1,3,5-Trimethylbenzene

Concen: 0.098 ppbv m

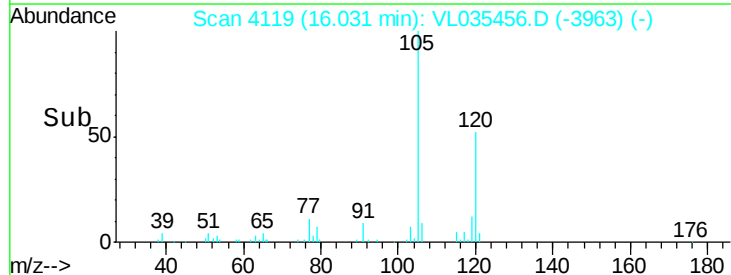
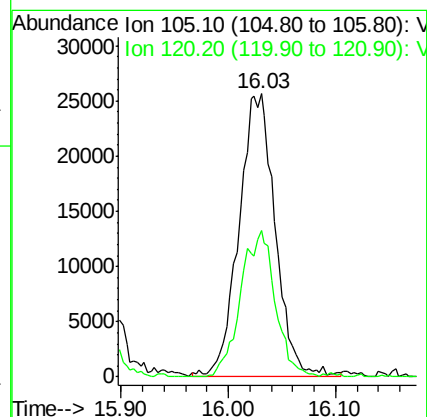
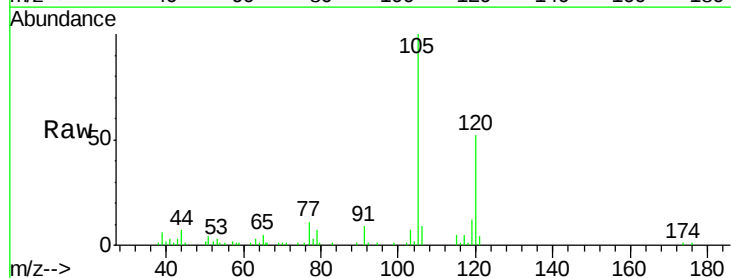
RT: 16.03 min Scan# 4119

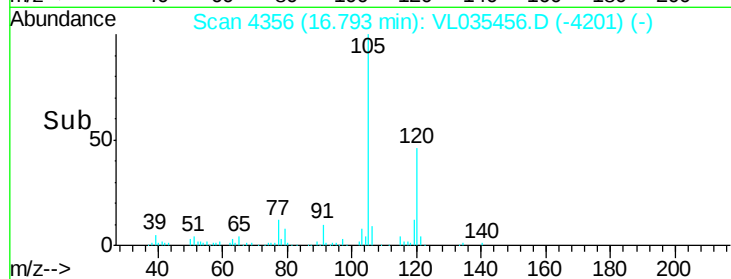
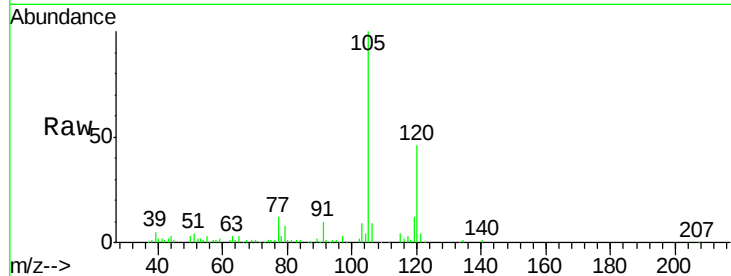
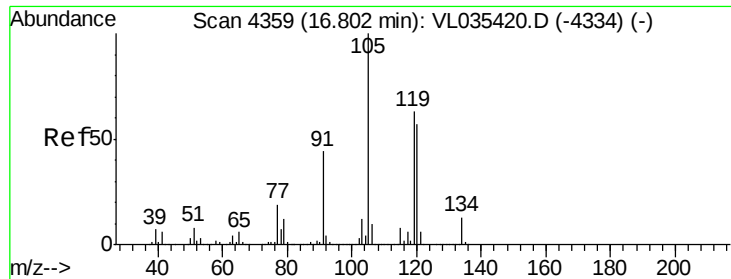
Delta R.T. 0.00 min

Lab File: VL035456.D

Acq: 19 Aug 2020 00:21

Tgt Ion	105	Resp	60558
Ion Ratio	Lower	Upper	
105	100		
120	51.7	35.6	53.4





#74
 1,2,4-Trimethylbenzene
 Concen: 0.205 ppbv
 RT: 16.79 min Scan# 4356
 Delta R.T. -0.00 min
 Lab File: VL035456.D
 Acq: 19 Aug 2020 00:21

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-02DL

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	46.1	37.8	56.8
91	10.0	40.0	60.0#
77	11.7	18.8	28.2#

Manual Integrations
 APPROVED

MMDadoda
 8/20/2020 11:07:33 AM

