

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041019\
 Data File : VL033577.D
 Acq On : 10 Apr 2019 23:37
 Operator : SY/AP
 Sample : K2312-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A-7

Manual Integrations
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 4/11/2019 1:01:56 PM

Quant Time: Apr 11 05:00:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 2
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	802073	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1927259	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1848301	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1484605	10.25	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	38167	0.326	ppbv	97
4) Chloromethane	3.17	50	21753	0.445	ppbv	98
9) Propene	3.05	41	21187m	0.546	ppbv	
10) Heptane	8.25	43	23714m	0.229	ppbv	
11) Trichlorofluoromethane	4.01	101	30804	0.214	ppbv	96
13) Ethanol	3.65	45	948483	94.520	ppbv	64
15) Acetone	3.90	43	554441	5.749	ppbv	98
19) Isopropyl Alcohol	4.03	45	250202	4.102	ppbv #	99
20) Methylene Chloride	4.41	84	173768	4.245	ppbv	96
26) Hexane	5.78	57	455123	5.721	ppbv #	52
34) 2-Butanone	5.33	43	27294	0.236	ppbv	100
35) Carbon Tetrachloride	7.14	117	7894m	0.058	ppbv	
36) Benzene	7.00	78	17195m	0.106	ppbv	
53) Toluene	9.94	91	430398	2.290	ppbv	98

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

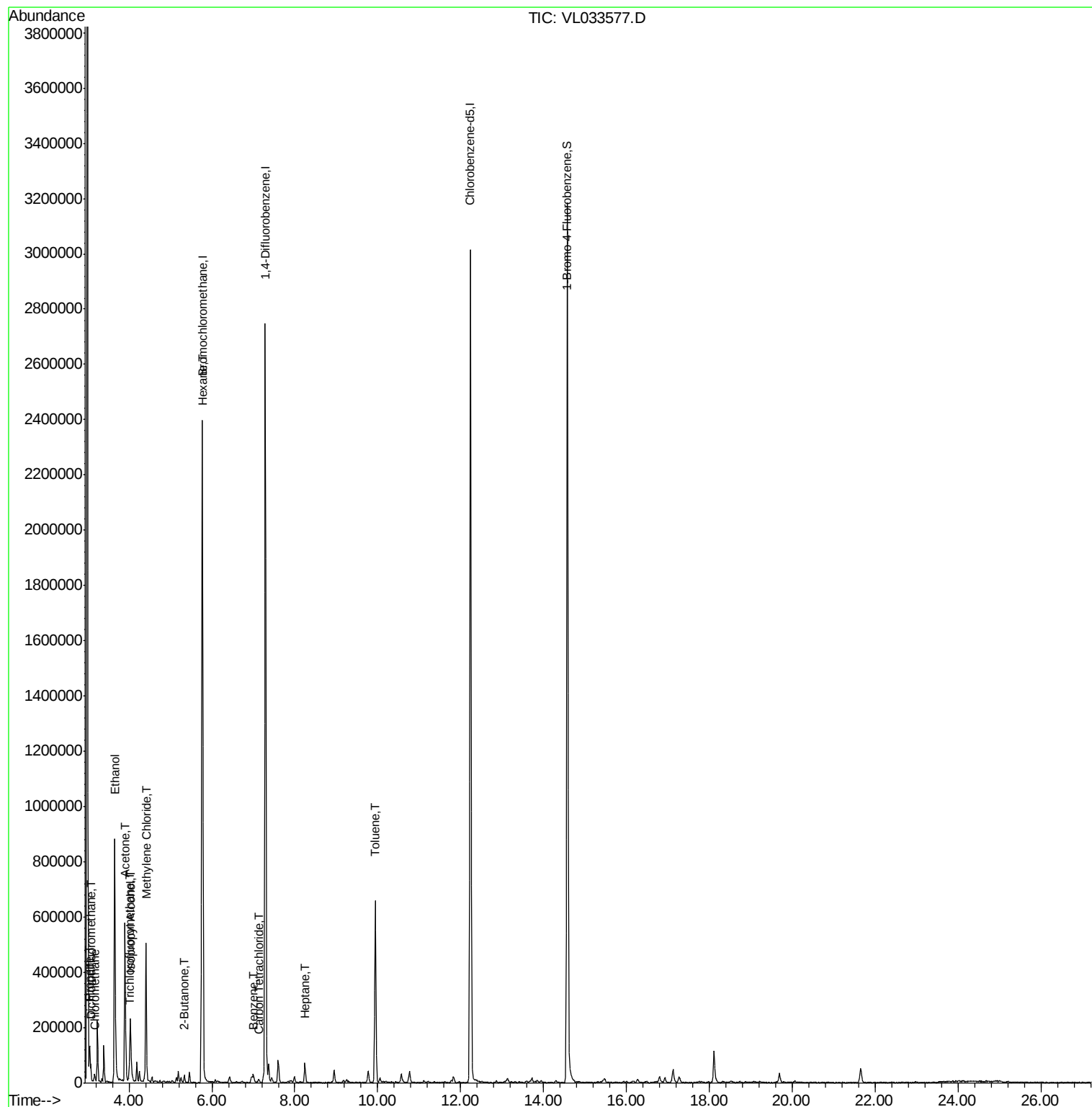
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL041019\
Data File : VL033577.D
Acq On : 10 Apr 2019 23:37
Operator : SY/AP
Sample : K2312-02
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

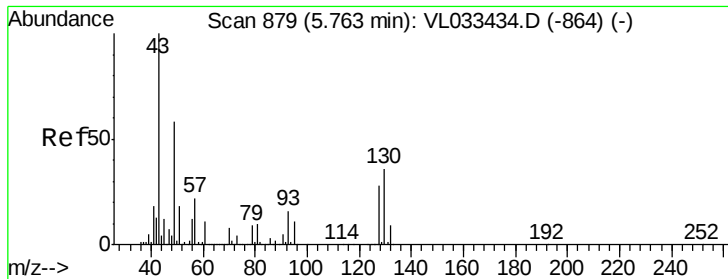
Instrument :
MSVOA_L
ClientSampleId :
A-7

Manual Integrations
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4/11/2019 1:01:56 PM

Quant Time: Apr 11 05:00:34 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Mar
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033577.D

Acq: 10 Apr 2019 23:37

Instrument :

MSVOA_L

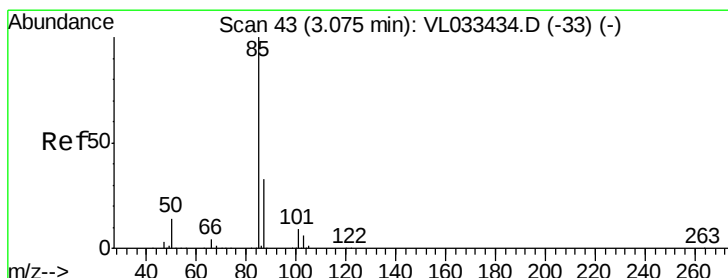
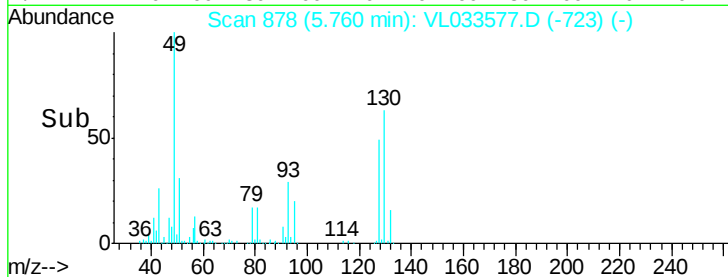
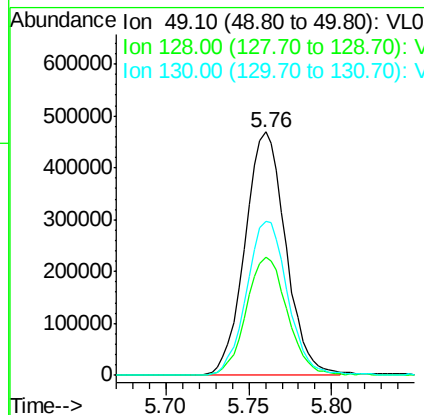
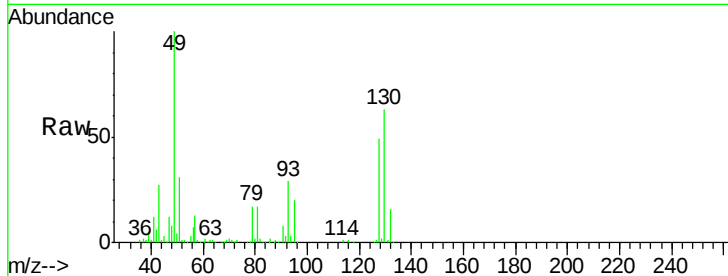
ClientSampled :

A-7

Tot Ion: 49 Resp: 802073
 Ion Ratio Lower Upper
 49 100
 128 49.4 24.0 72.0
 130 64.3 31.2 93.6

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#2

Dichlorodifluoromethane

Concen: 0.326 ppbv

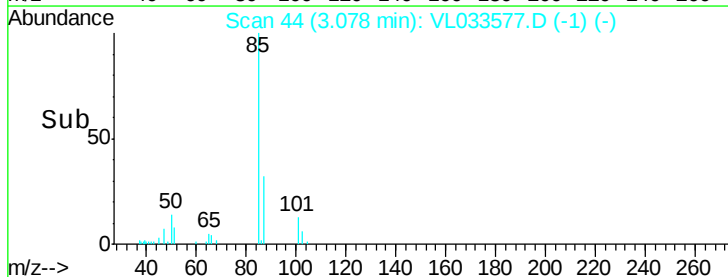
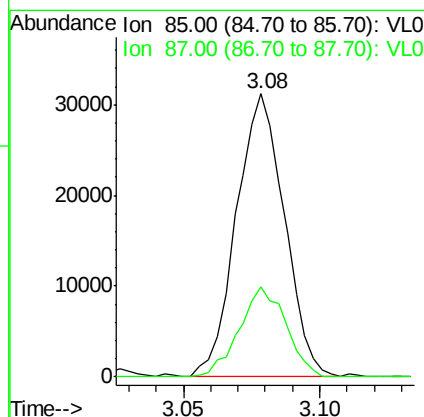
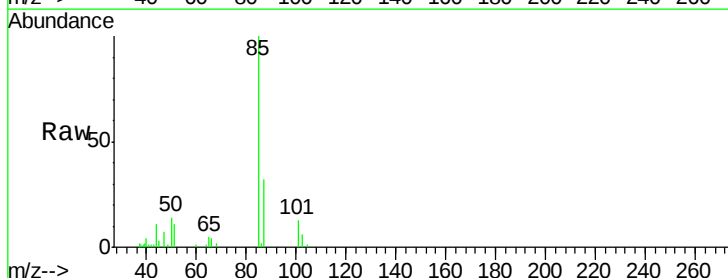
RT: 3.08 min Scan# 44

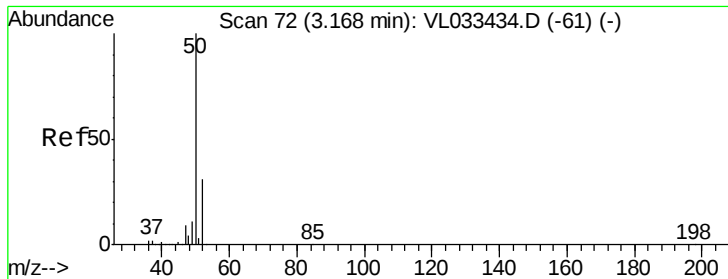
Delta R.T. 0.00 min

Lab File: VL033577.D

Acq: 10 Apr 2019 23:37

Tgt Ion: 85 Resp: 38167
 Ion Ratio Lower Upper
 85 100
 87 31.9 26.7 40.1





#4

Chloromethane

Concen: 0.445 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033577.D

Acq: 10 Apr 2019 23:37

Instrument :

MSVOA_L

ClientSampleId :

A-7

Tot Ion: 50 Resp: 21753

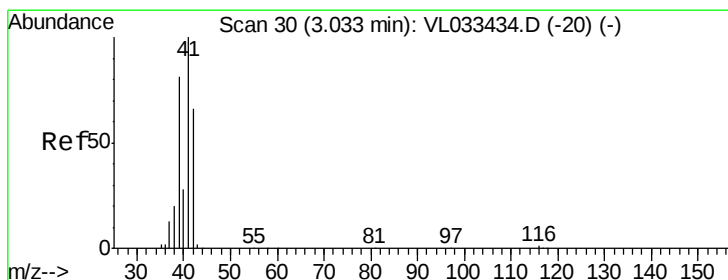
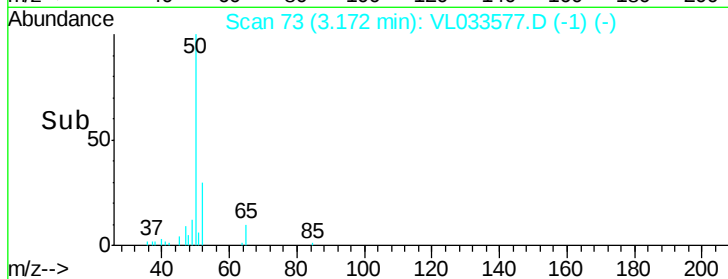
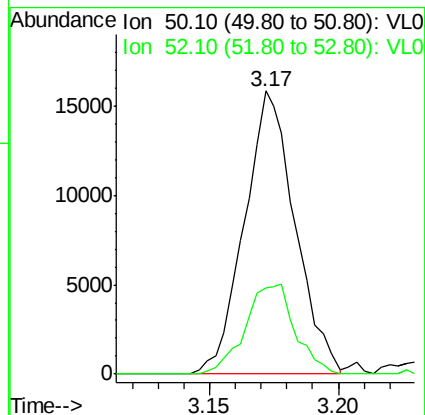
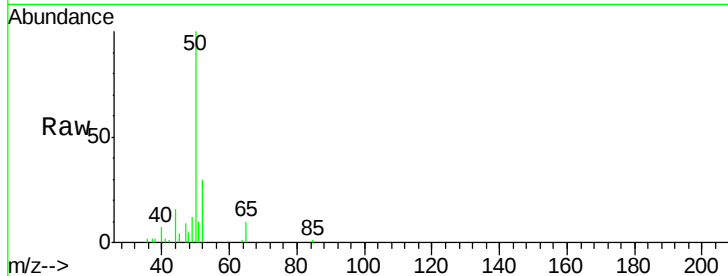
Ion Ratio Lower Upper

50 100

52 30.4 25.0 37.6

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#9

Propene

Concen: 0.546 ppbv m

RT: 3.05 min Scan# 35

Delta R.T. 0.02 min

Lab File: VL033577.D

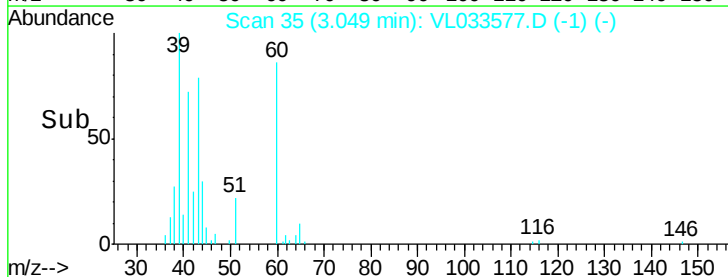
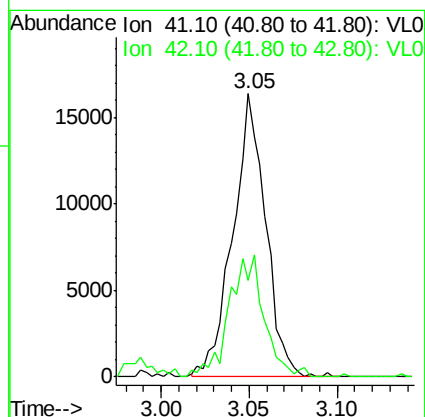
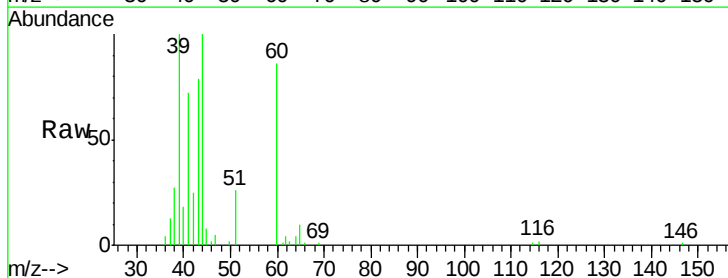
Acq: 10 Apr 2019 23:37

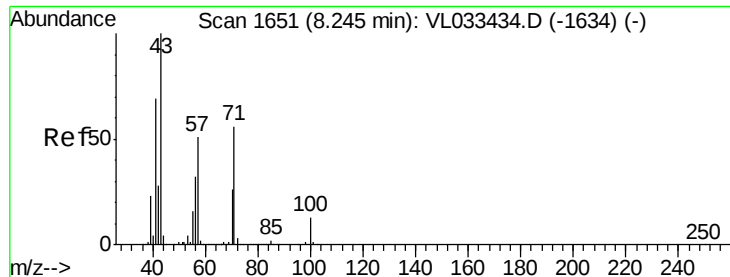
Tgt Ion: 41 Resp: 21187

Ion Ratio Lower Upper

41 100

42 177.4 53.9 80.9#





#10

Heptane

Concen: 0.229 ppbv m

RT: 8.25 min Scan# 1653

Delta R.T. 0.01 min

Lab File: VL033577.D

Acq: 10 Apr 2019 23:37

Instrument :

MSVOA_L

ClientSampled :

A-7

Tot Ion: 43 Resp: 23714

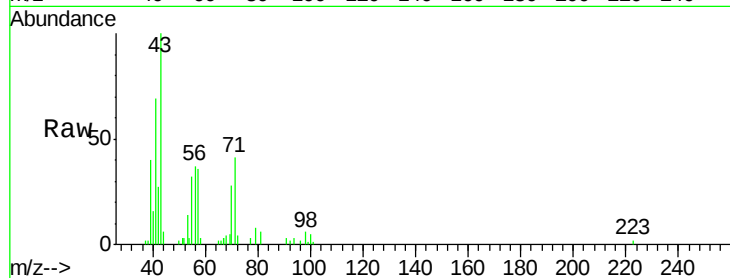
Ion Ratio Lower Upper

43 100

57 51.2 40.6 60.8

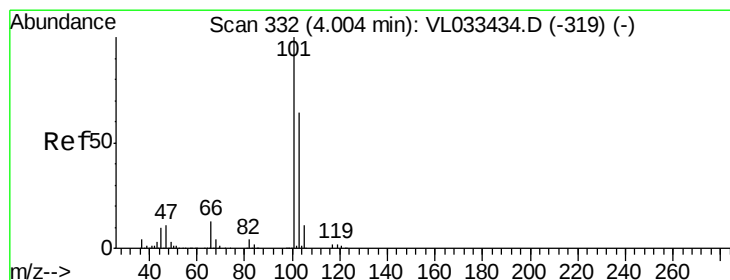
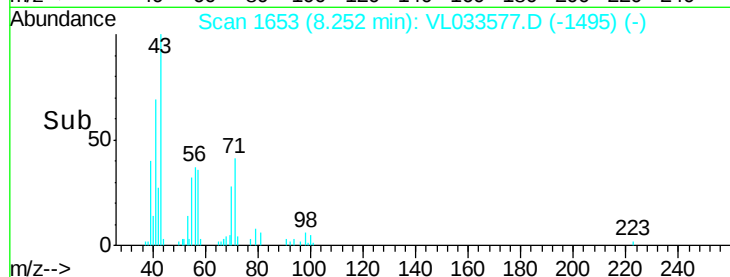
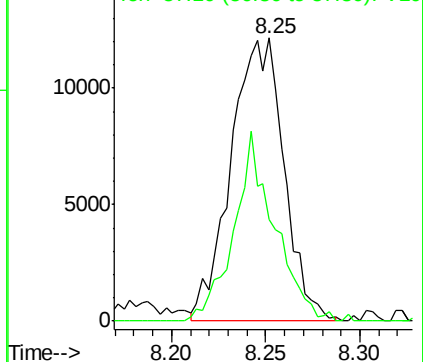
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 0.214 ppbv

RT: 4.01 min Scan# 333

Delta R.T. 0.00 min

Lab File: VL033577.D

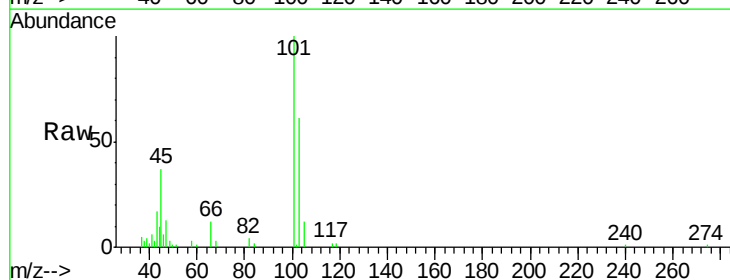
Acq: 10 Apr 2019 23:37

Tgt Ion: 101 Resp: 30804

Ion Ratio Lower Upper

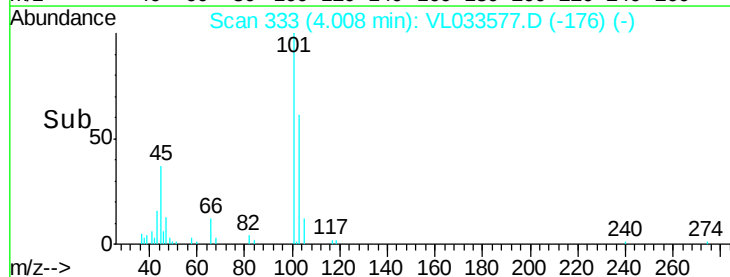
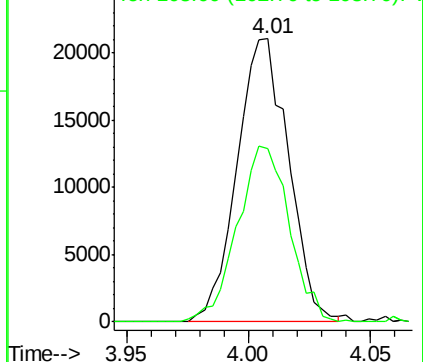
101 100

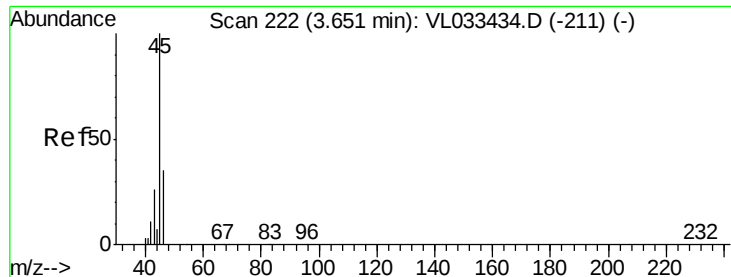
103 61.0 51.3 76.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





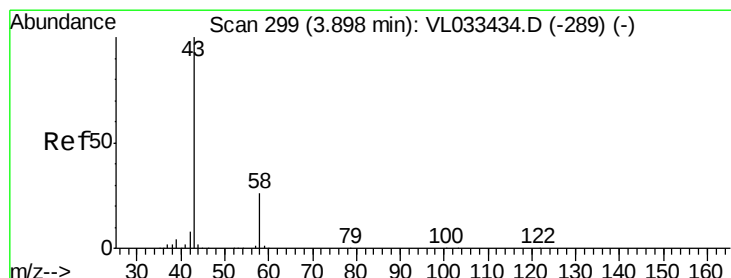
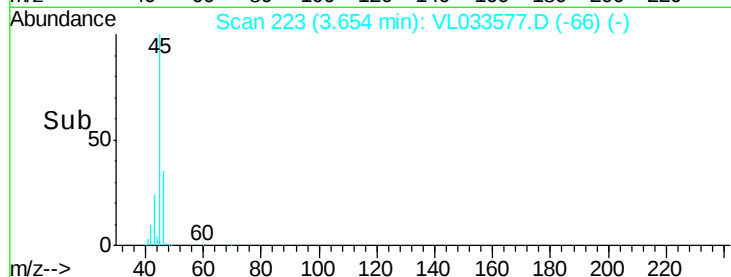
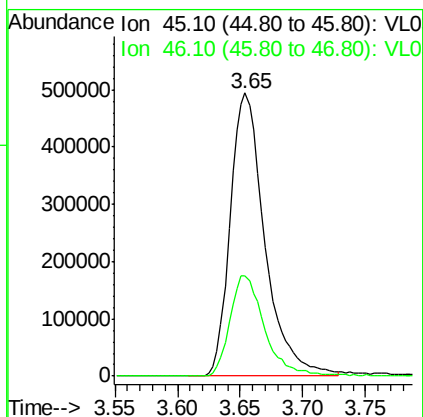
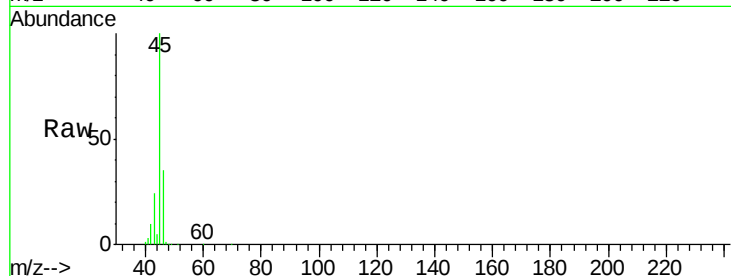
#13
Ethanol
Concen: 94.520 ppbv
RT: 3.65 min Scan# 223
Delta R.T. 0.00 min
Lab File: VL033577.D
Acq: 10 Apr 2019 23:37

Instrument :
MSVOA_L
ClientSampled :
A-7

Tot Ion	45	Resp	948483
Ion Ratio	100	Lower	Upper
46	35.6	25.4	101.8

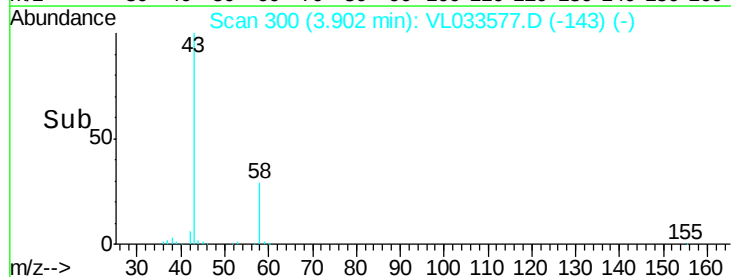
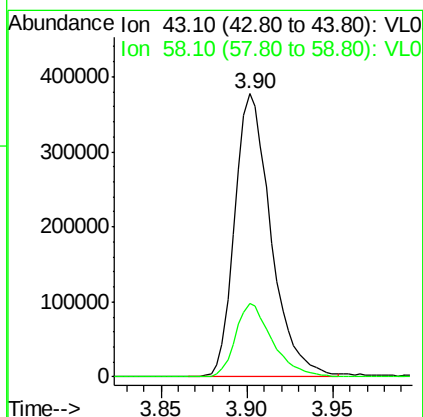
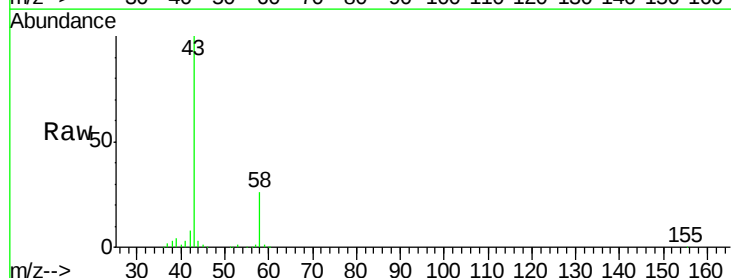
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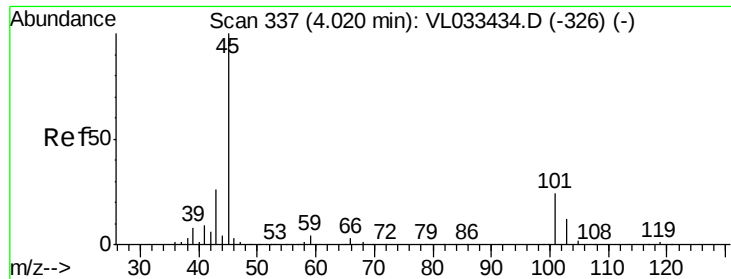
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#15
Acetone
Concen: 5.749 ppbv
RT: 3.90 min Scan# 300
Delta R.T. 0.00 min
Lab File: VL033577.D
Acq: 10 Apr 2019 23:37

Tgt Ion	43	Resp	554441
Ion Ratio	100	Lower	Upper
58	26.7	20.5	30.7





#19

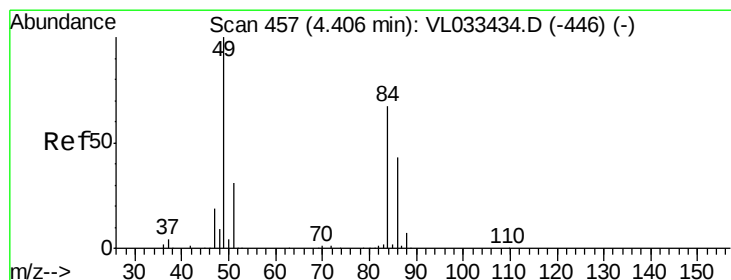
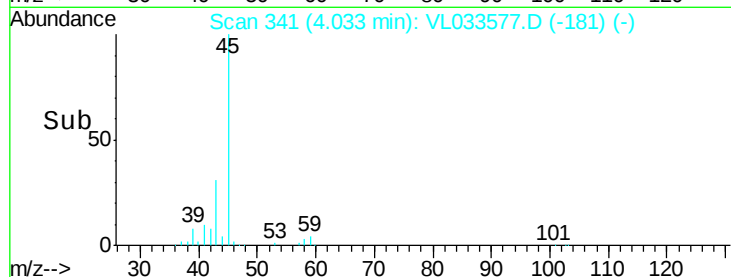
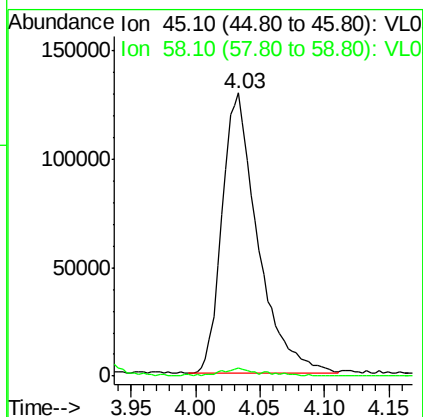
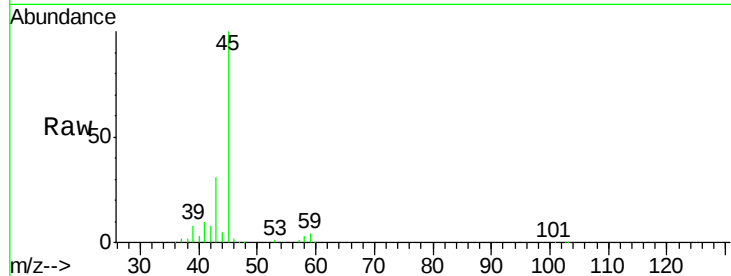
Isopropyl Alcohol
 Concen: 4.102 ppbv
 RT: 4.03 min Scan# 341
 Delta R.T. 0.01 min
 Lab File: VL033577.D
 Acq: 10 Apr 2019 23:37

Instrument :
 MSVOA_L
 ClientSampleId :
 A-7

Tot Ion	Ratio	Lower	Upper
45	100		
58	2.2	1.4	2.2#

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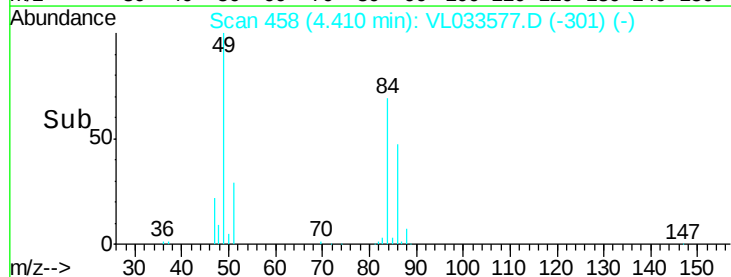
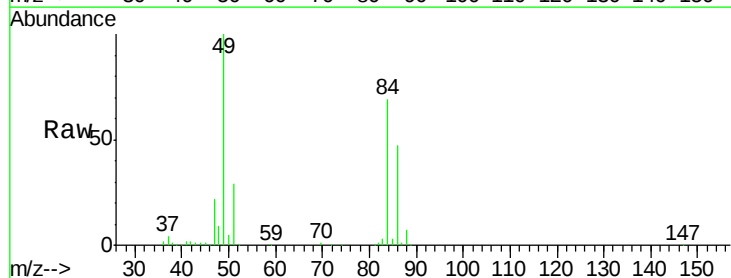
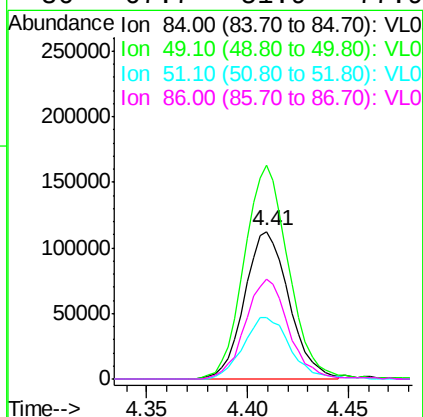
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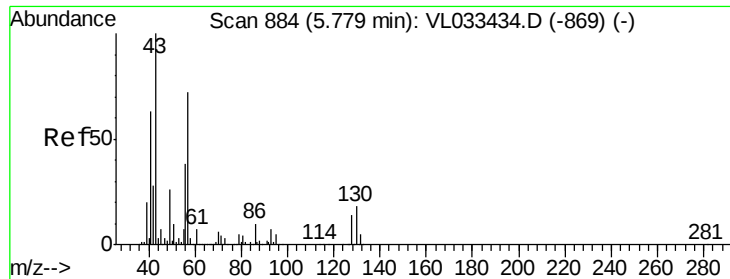


#20

Methylene Chloride
 Concen: 4.245 ppbv
 RT: 4.41 min Scan# 458
 Delta R.T. 0.00 min
 Lab File: VL033577.D
 Acq: 10 Apr 2019 23:37

Tgt Ion	Ratio	Lower	Upper
84	100		
49	144.9	120.0	180.0
51	42.0	36.7	55.1
86	67.7	51.9	77.9





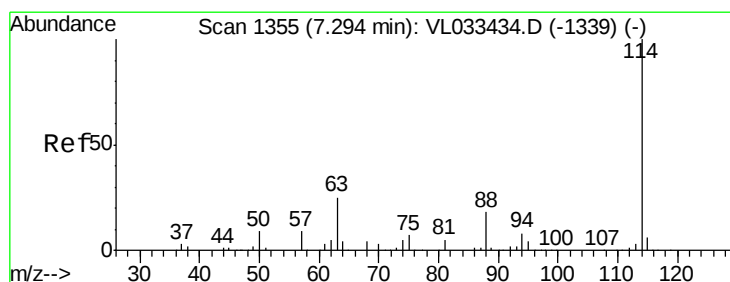
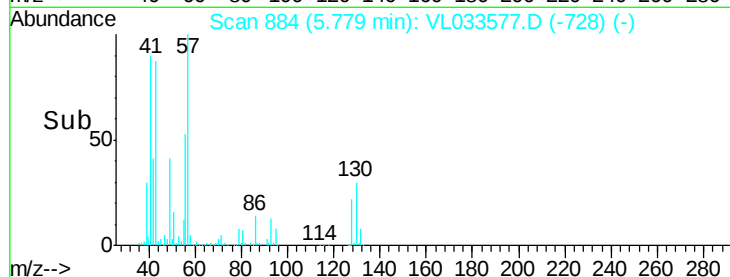
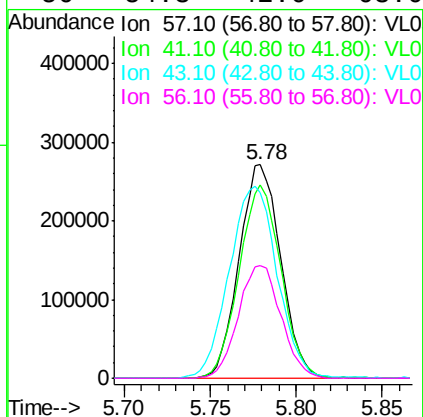
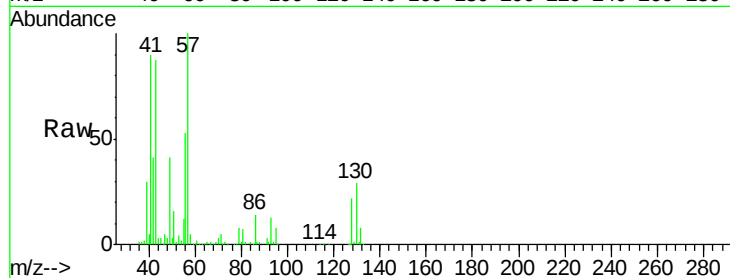
#26
Hexane
Concen: 5.721 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.00 min
Lab File: VL033577.D
Acq: 10 Apr 2019 23:37

Instrument :
MSVOA_L
ClientSampleId :
A-7

Tot Ion	Ion	Ratio	Lower	Upper
57	100			
41	91.2	70.7	106.1	
43	104.6	182.6	274.0	
56	54.3	42.0	63.0	

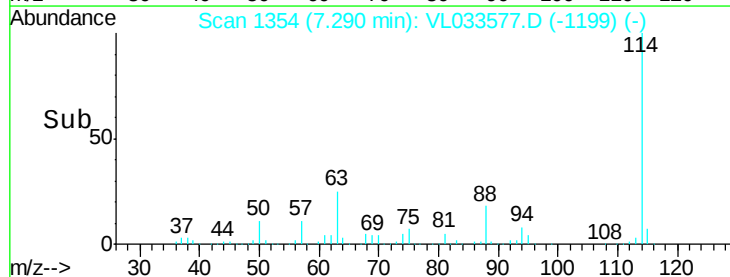
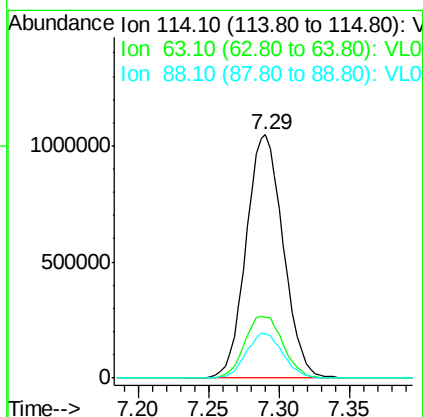
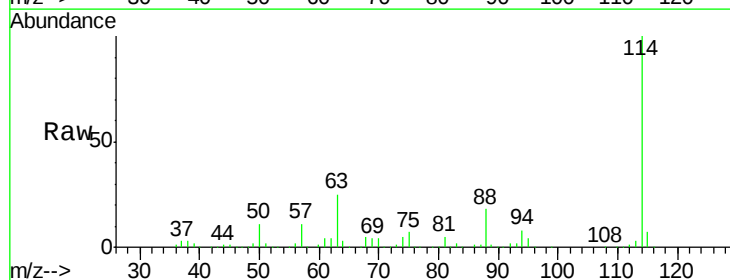
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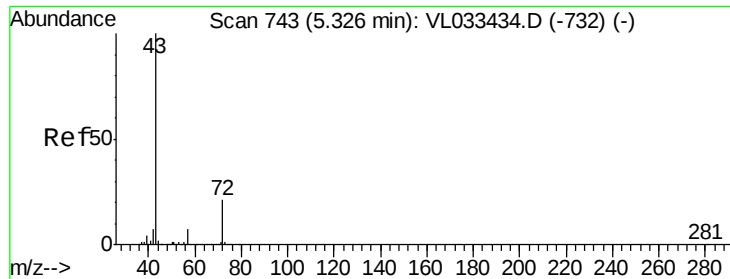
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1354
Delta R.T. -0.00 min
Lab File: VL033577.D
Acq: 10 Apr 2019 23:37

Tgt Ion	Ion	Ratio	Lower	Upper
114	100			
63	26.5	21.5	32.3	
88	18.3	14.5	21.7	





#34

2-Butanone

Concen: 0.236 ppbv

RT: 5.33 min Scan# 745

Delta R.T. 0.01 min

Lab File: VL033577.D

Acq: 10 Apr 2019 23:37

Instrument :

MSVOA_L

ClientSampleId :

A-7

Tot Ion: 43 Resp: 27294

Ion Ratio Lower Upper

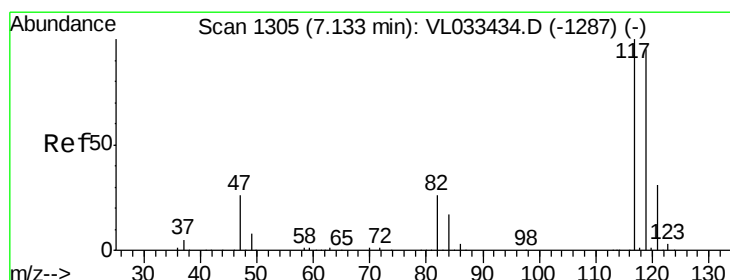
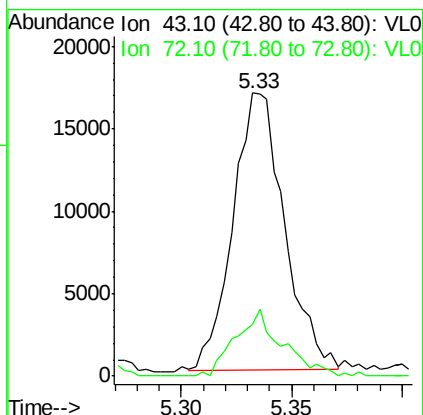
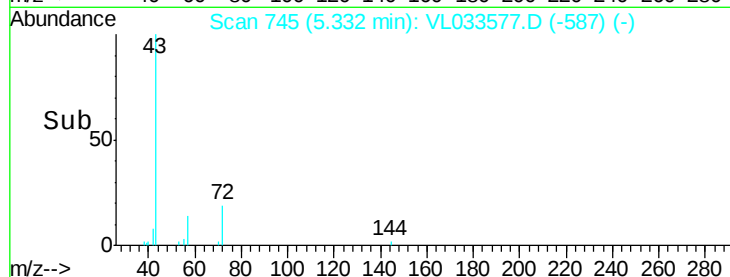
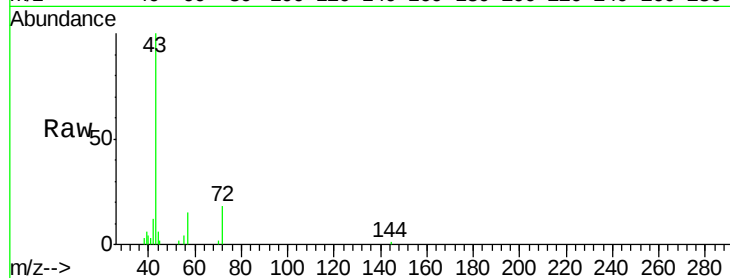
43 100

72 21.9 17.4 26.2

Manual Integrations
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#35

Carbon Tetrachloride

Concen: 0.058 ppbv m

RT: 7.14 min Scan# 1307

Delta R.T. 0.01 min

Lab File: VL033577.D

Acq: 10 Apr 2019 23:37

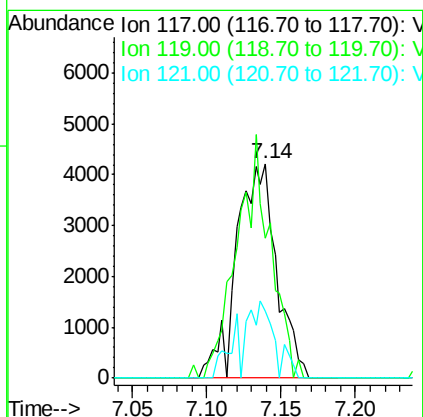
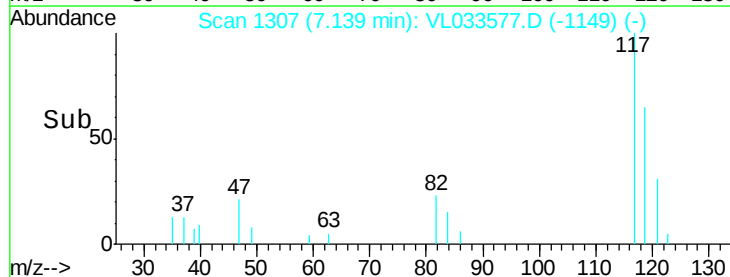
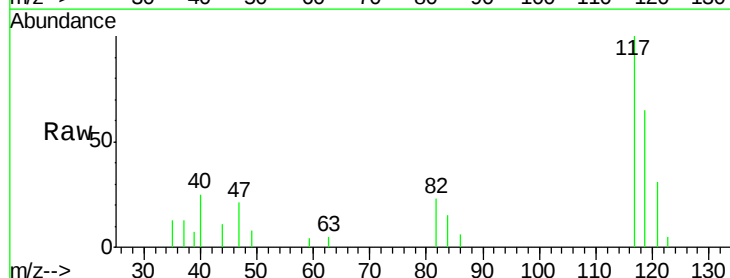
Tgt Ion: 117 Resp: 7894

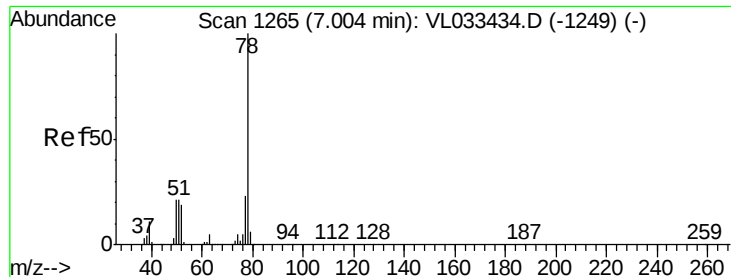
Ion Ratio Lower Upper

117 100

119 65.0 75.8 113.8#

121 31.4 24.7 37.1





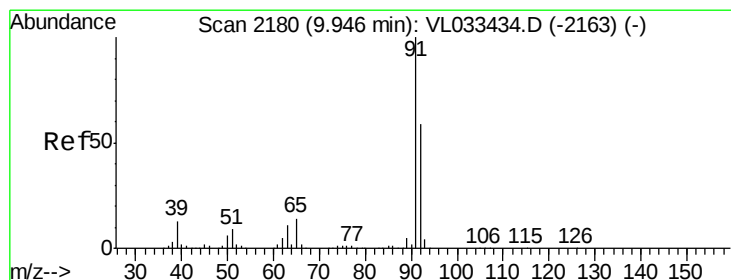
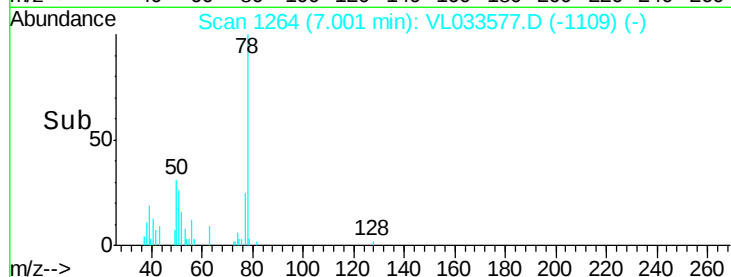
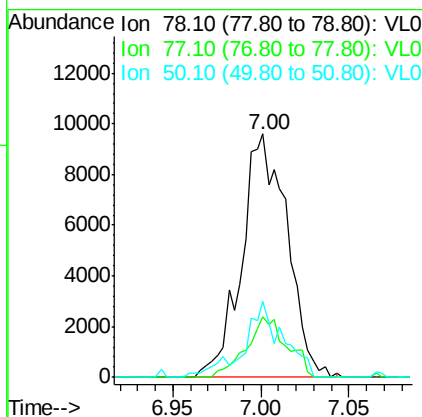
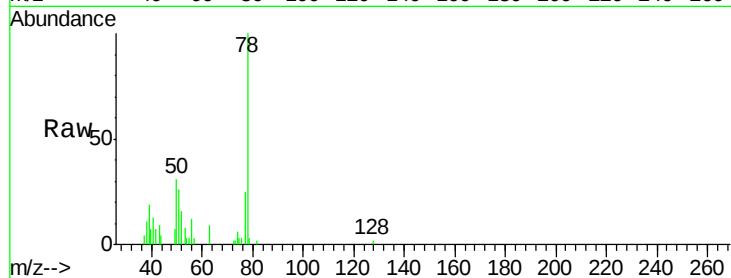
#36
Benzene
Concen: 0.106 ppbv m
RT: 7.00 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VL033577.D
Acq: 10 Apr 2019 23:37

Instrument :
MSVOA_L
ClientSampleId :
A-7

Tot Ion	Ratio	Lower	Upper
78	100		
77	25.1	18.1	27.1
50	31.1	16.7	25.1#

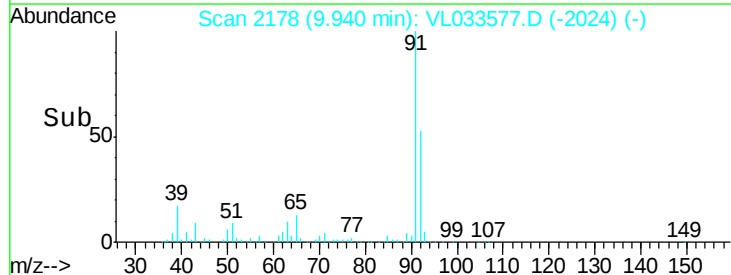
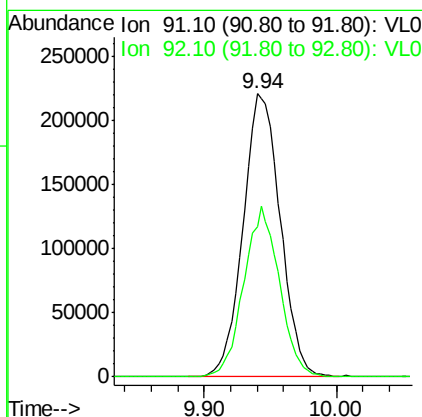
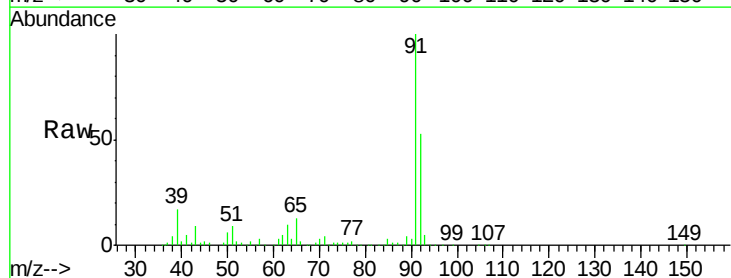
Manual Integrations
APPROVED

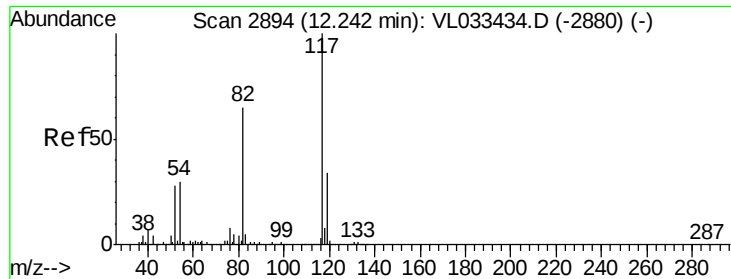
MMDadoda
4/11/2019 1:01:56 PM



#53
Toluene
Concen: 2.290 ppbv
RT: 9.94 min Scan# 2178
Delta R.T. -0.01 min
Lab File: VL033577.D
Acq: 10 Apr 2019 23:37

Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.7	47.4	71.0





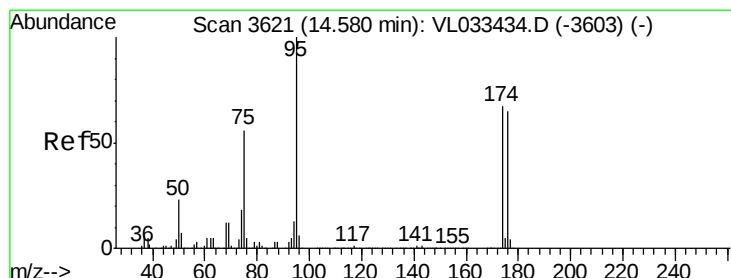
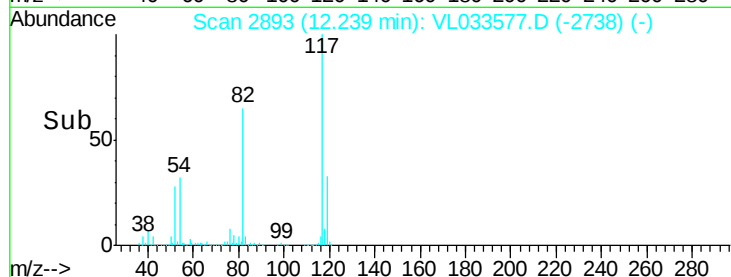
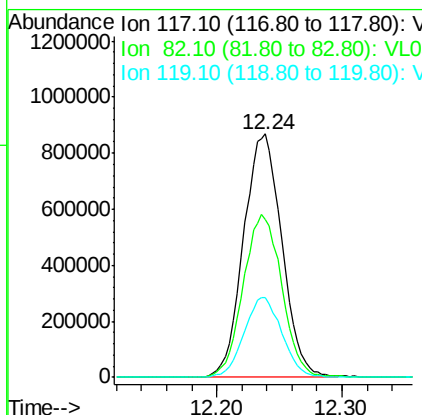
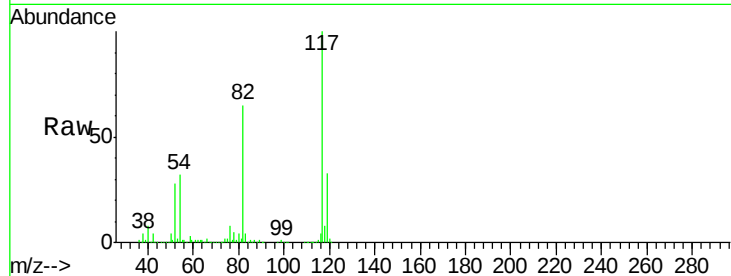
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.00 min
Lab File: VL033577.D
Acq: 10 Apr 2019 23:37

Instrument :
MSVOA_L
ClientSampled :
A-7

Tot Ion	Ratio	Lower	Upper
117	100		
82	67.6	51.5	77.3
119	32.7	25.5	38.3

Manual Integrations
APPROVED

MMDadoda
4/11/2019 1:01:56 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.246 ppbv
RT: 14.57 min Scan# 3619
Delta R.T. -0.01 min
Lab File: VL033577.D
Acq: 10 Apr 2019 23:37

Tgt Ion	Ratio	Lower	Upper
95	100		
174	67.0	52.9	79.3
175	4.9	3.8	5.6

