

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041019\
 Data File : VL033579.D
 Acq On : 11 Apr 2019 00:57
 Operator : SY/AP
 Sample : K2312-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A-8

Manual Integrations
 APPROVED

MMDadoda
 4/11/2019 1:02:06 PM

Quant Time: Apr 11 05:05:13 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	826283	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1938126	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1861982	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1507792	10.33	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	32455	0.269	ppbv	93
3) Chlorodifluoromethane	3.01	51	22431m	0.236	ppbv	
4) Chloromethane	3.17	50	20804	0.413	ppbv	93
9) Propene	3.05	41	28370	0.710	ppbv #	77
11) Trichlorofluoromethane	4.01	101	30545	0.206	ppbv	96
13) Ethanol	3.66	45	136764	13.230	ppbv	66
15) Acetone	3.90	43	537509	5.410	ppbv	99
20) Methylene Chloride	4.41	84	320267	7.594	ppbv	96
26) Hexane	5.78	57	406218	4.956	ppbv #	54
30) Cyclohexane	7.25	84	17177m	0.265	ppbv	
34) 2-Butanone	5.34	43	20844	0.179	ppbv	98
35) Carbon Tetrachloride	7.13	117	7782	0.057	ppbv #	84
53) Toluene	9.95	91	59525m	0.315	ppbv	

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

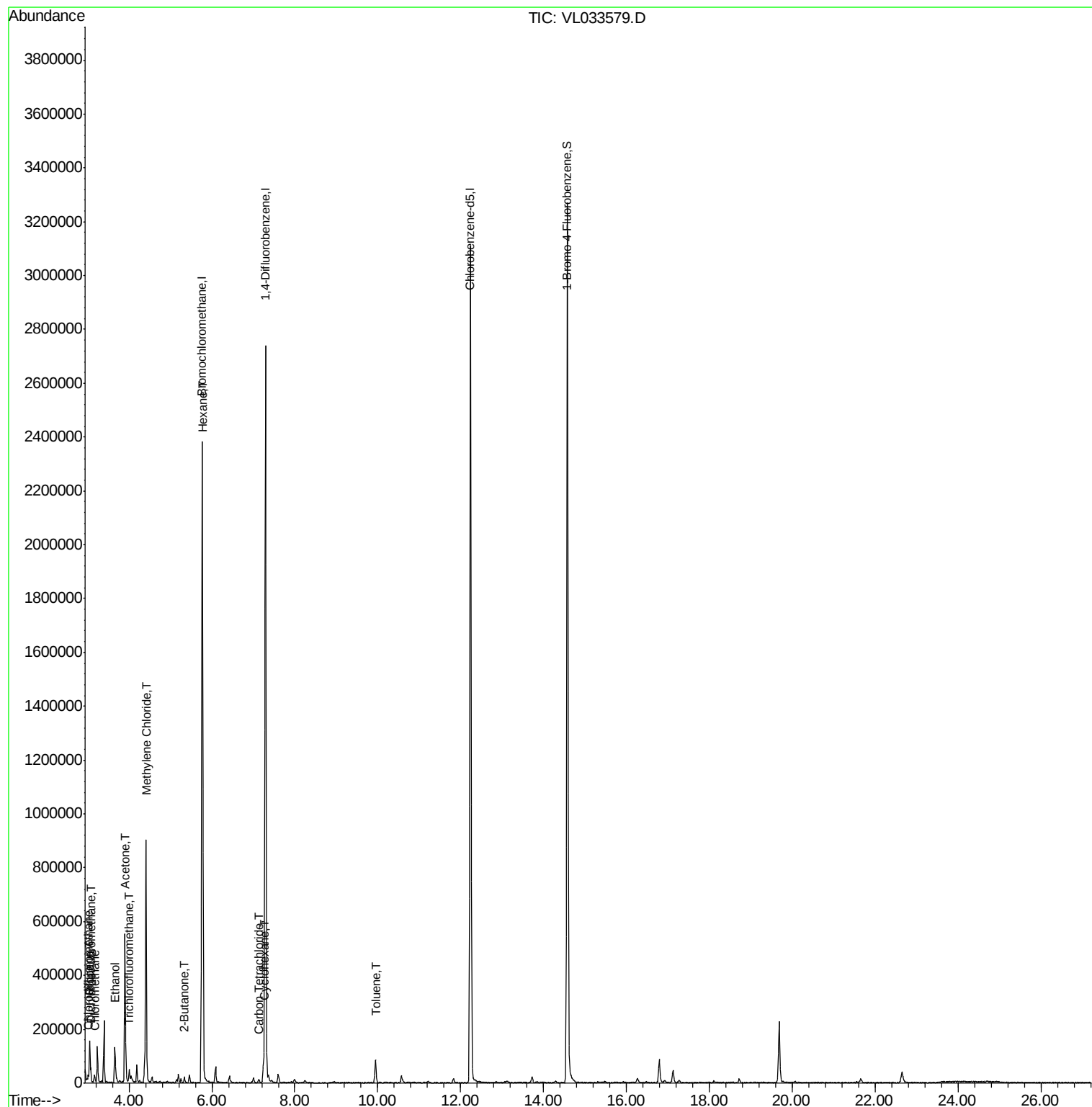
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL041019\
Data File : VL033579.D
Acq On : 11 Apr 2019 00:57
Operator : SY/AP
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

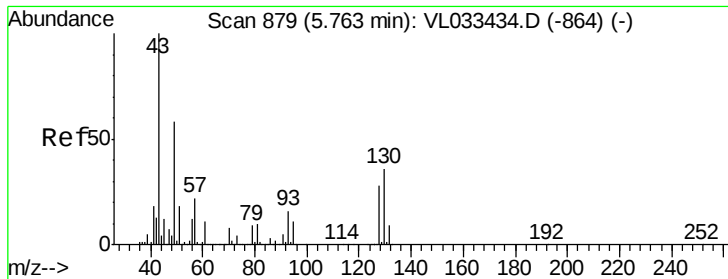
Instrument :
MSVOA_L
ClientSampleId :
A-8

Manual Integrations
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Quant Time: Apr 11 05:05:13 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# 877

Delta R.T. -0.01 min

Lab File: VL033579.D

Acq: 11 Apr 2019 00:57

Instrument :

MSVOA_L

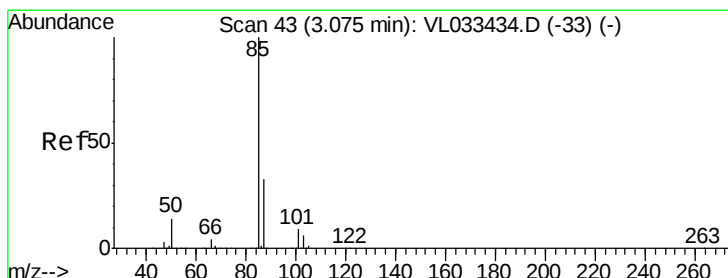
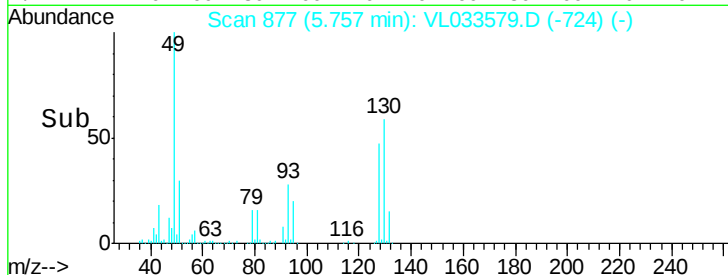
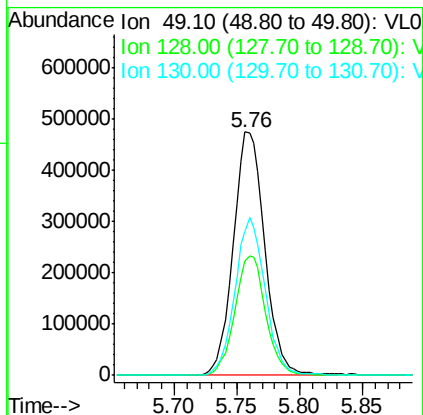
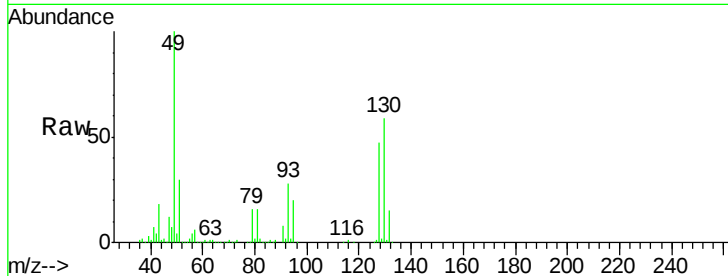
ClientSampled :

A-8

Tot Ion: 49 Resp: 826283
 Ion Ratio Lower Upper
 49 100
 128 48.4 24.0 72.0
 130 62.5 31.2 93.6

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 0.269 ppbv

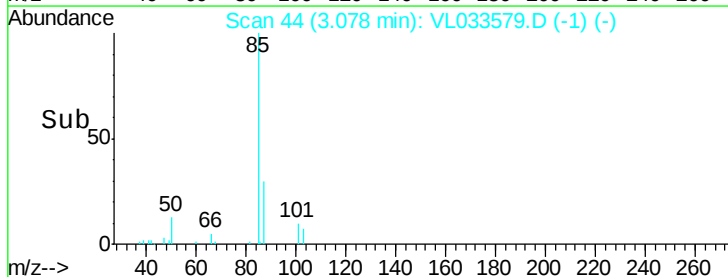
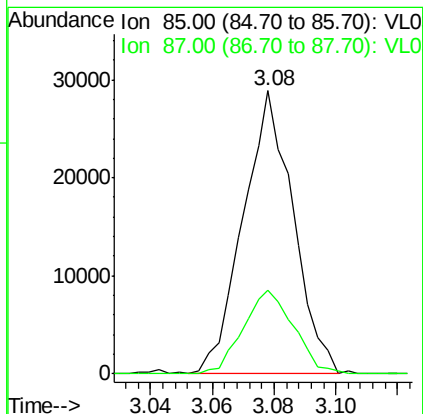
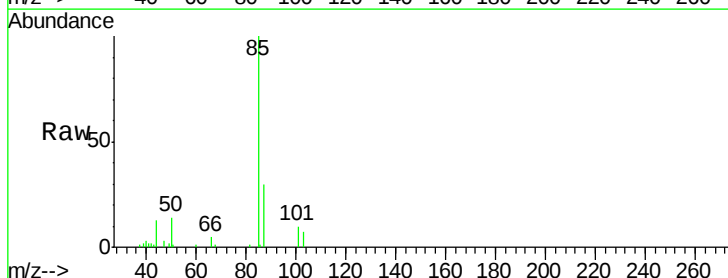
RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033579.D

Acq: 11 Apr 2019 00:57

Tgt Ion: 85 Resp: 32455
 Ion Ratio Lower Upper
 85 100
 87 29.3 26.7 40.1





#3

Chlorodifluoromethane

Concen: 0.236 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033579.D

Acq: 11 Apr 2019 00:57

Instrument :

MSVOA_L

ClientSampleId :

A-8

Tot Ion: 51 Resp: 22431

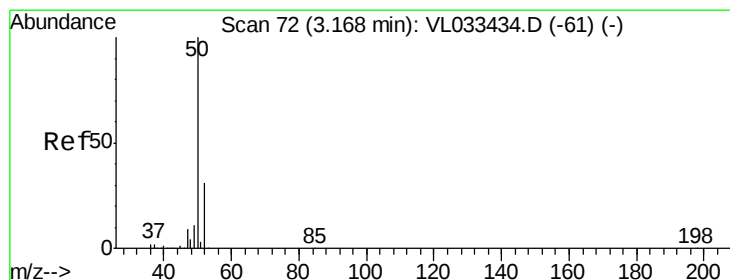
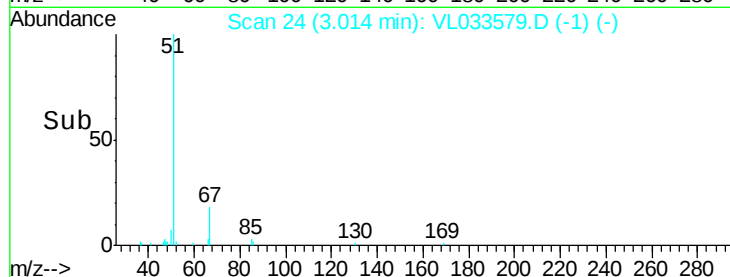
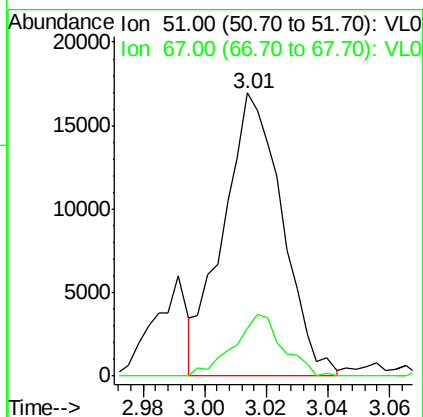
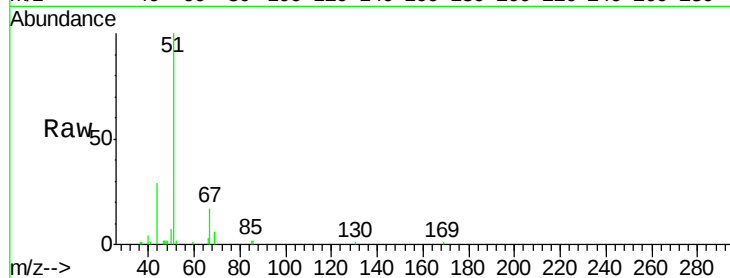
Ion Ratio Lower Upper

51 100

67 18.0 15.7 23.5

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#4

Chloromethane

Concen: 0.413 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033579.D

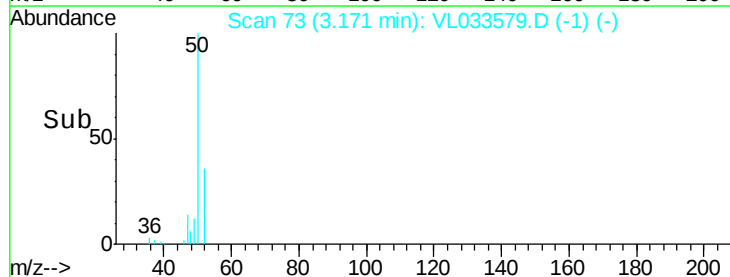
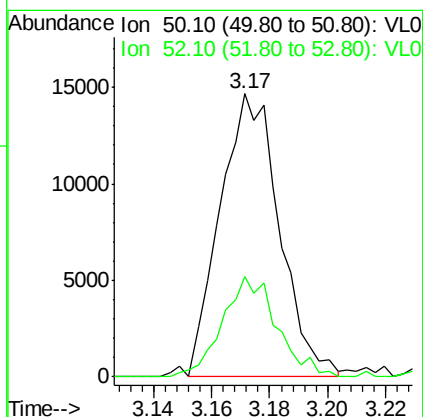
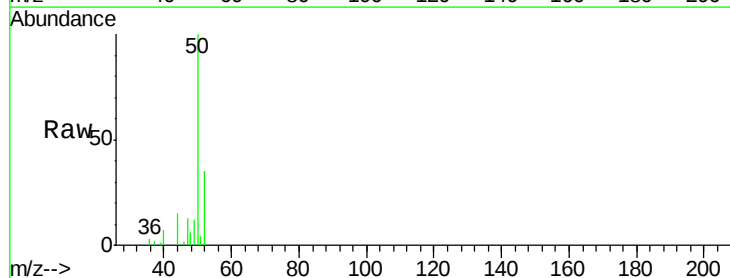
Acq: 11 Apr 2019 00:57

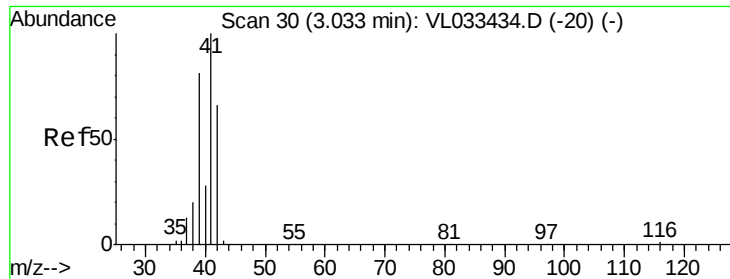
Tgt Ion: 50 Resp: 20804

Ion Ratio Lower Upper

50 100

52 35.2 25.0 37.6





#9

Propene

Concen: 0.710 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.02 min

Lab File: VL033579.D

Acq: 11 Apr 2019 00:57

Instrument :

MSVOA_L

ClientSampleId :

A-8

Tot Ion: 41 Resp: 28370

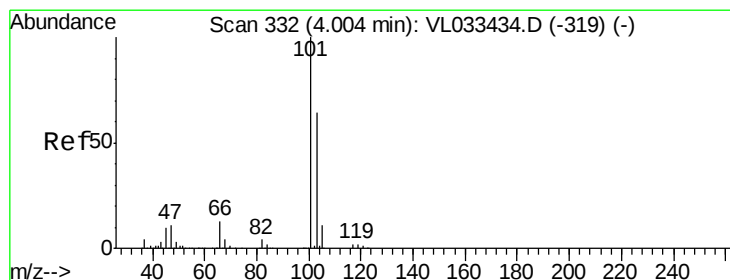
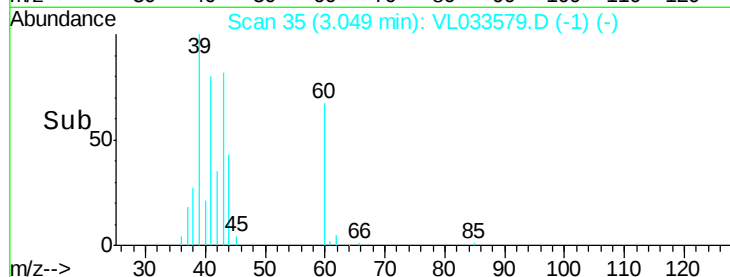
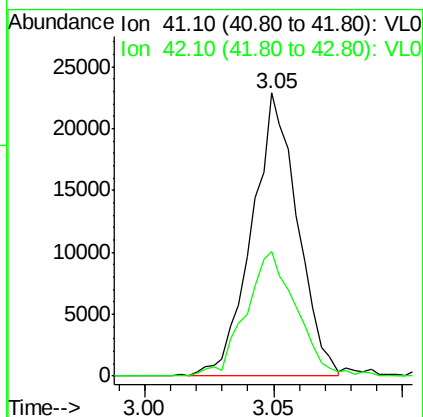
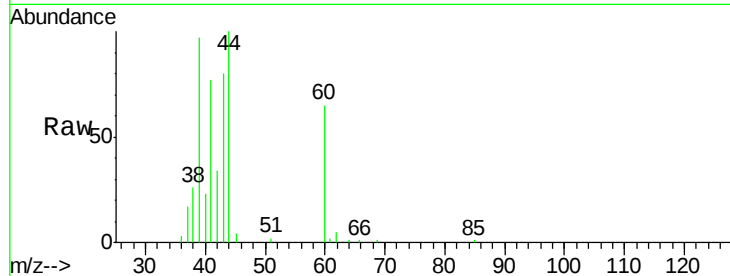
Ion Ratio Lower Upper

41 100

42 48.6 53.9 80.9#

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#11

Trichlorofluoromethane

Concen: 0.206 ppbv

RT: 4.01 min Scan# 333

Delta R.T. 0.00 min

Lab File: VL033579.D

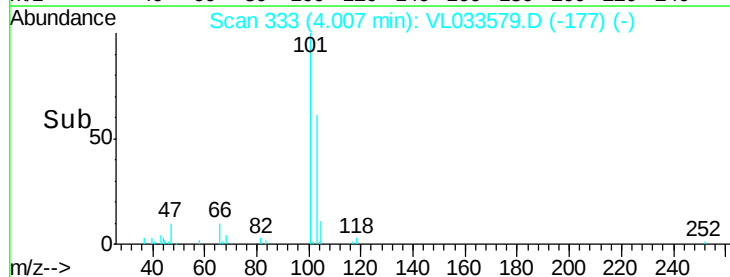
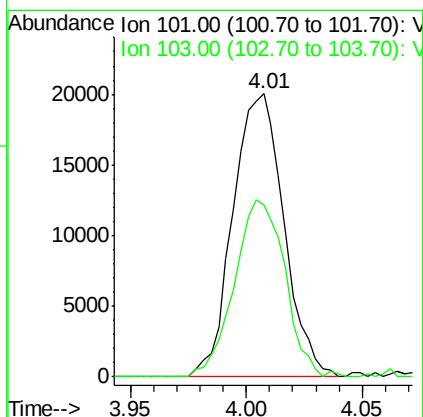
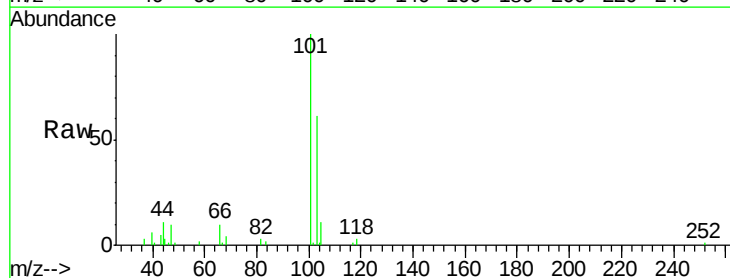
Acq: 11 Apr 2019 00:57

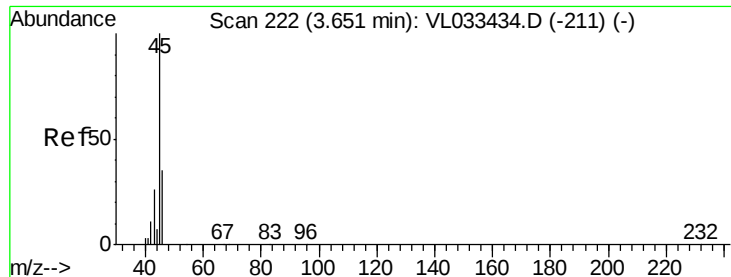
Tgt Ion: 101 Resp: 30545

Ion Ratio Lower Upper

101 100

103 60.6 51.3 76.9





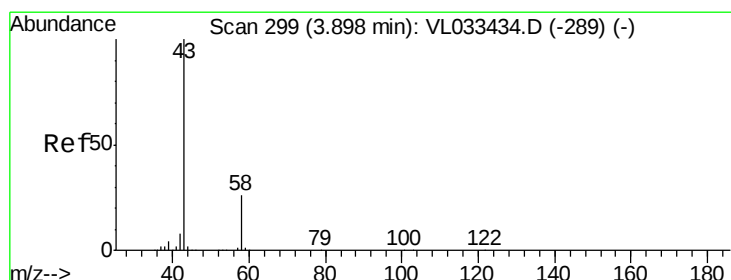
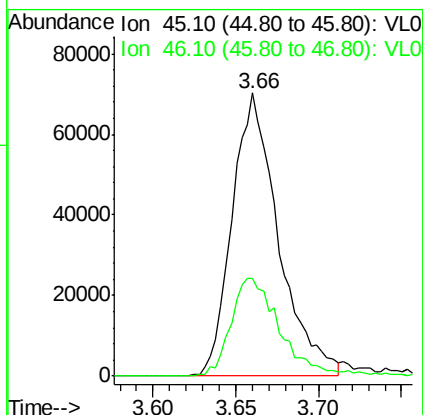
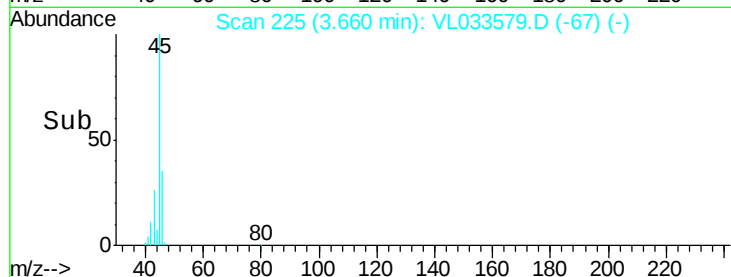
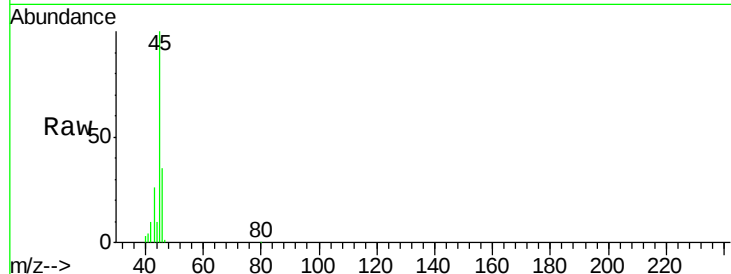
#13
Ethanol
Concen: 13.230 ppbv
RT: 3.66 min Scan# 225
Delta R.T. 0.01 min
Lab File: VL033579.D
Acq: 11 Apr 2019 00:57

Instrument :
MSVOA_L
ClientSampleId :
A-8

Tot Ion: 45 Resp: 136764
Ion Ratio Lower Upper
45 100
46 37.2 25.4 101.8

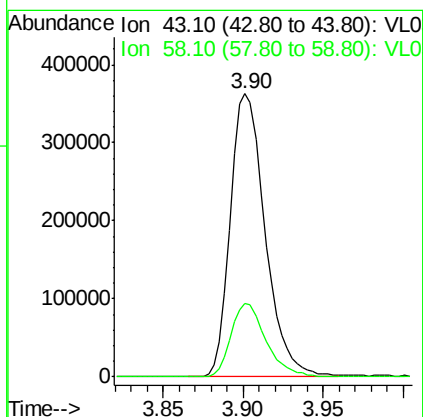
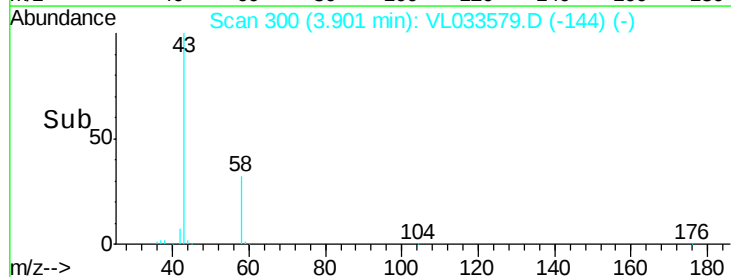
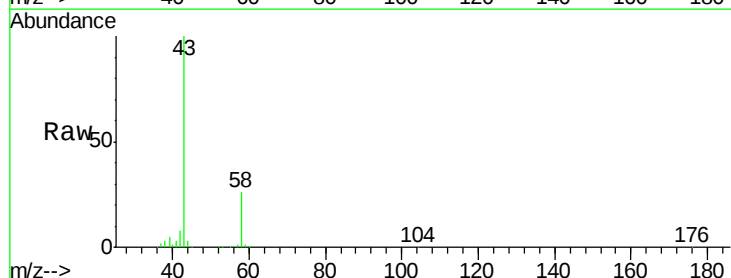
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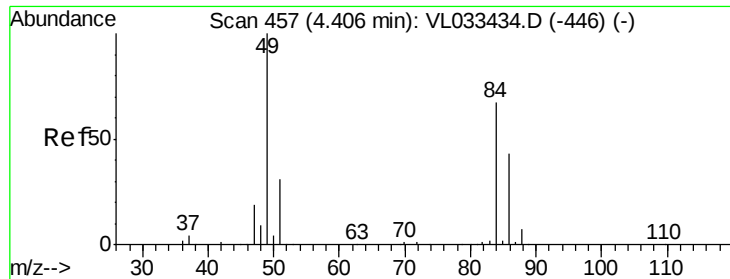
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#15
Acetone
Concen: 5.410 ppbv
RT: 3.90 min Scan# 300
Delta R.T. 0.00 min
Lab File: VL033579.D
Acq: 11 Apr 2019 00:57

Tgt Ion: 43 Resp: 537509
Ion Ratio Lower Upper
43 100
58 26.1 20.5 30.7





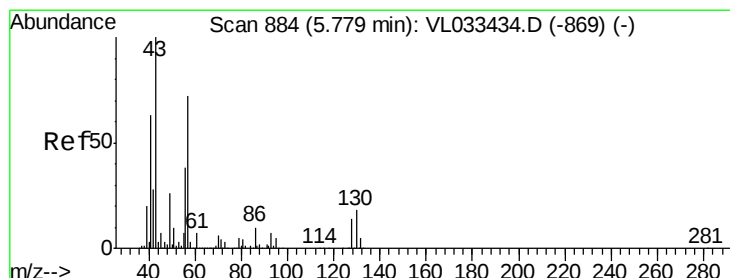
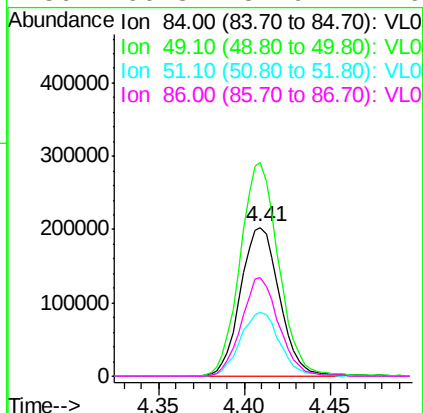
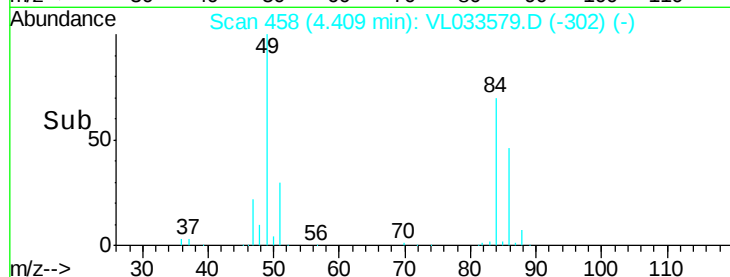
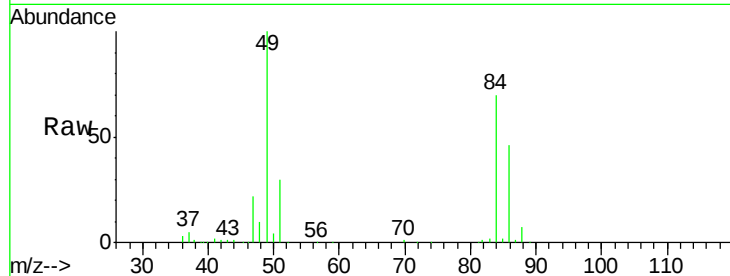
#20
Methvlene Chloride
Concen: 7.594 ppbv
RT: 4.41 min Scan# 458
Delta R.T. 0.00 min
Lab File: VL033579.D
Acq: 11 Apr 2019 00:57

Instrument :
MSVOA_L
ClientSampleId :
A-8

Tot Ion	Ion	Ratio	Lower	Upper
84	100			
49	143.7	120.0	180.0	
51	43.2	36.7	55.1	
86	66.3	51.9	77.9	

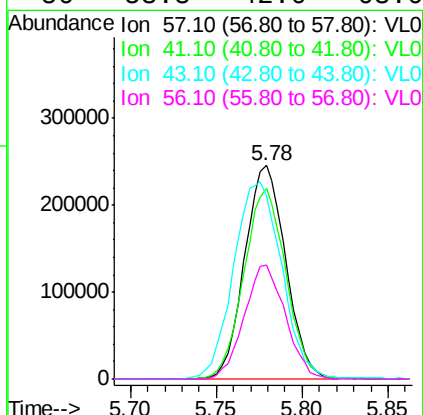
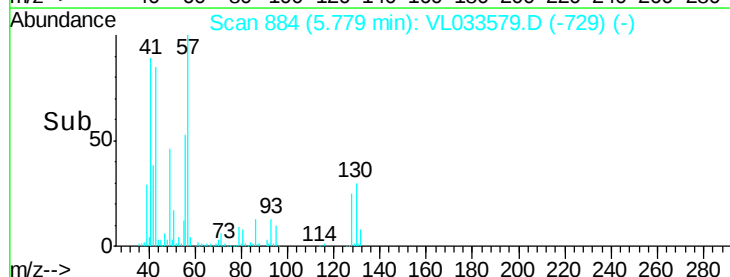
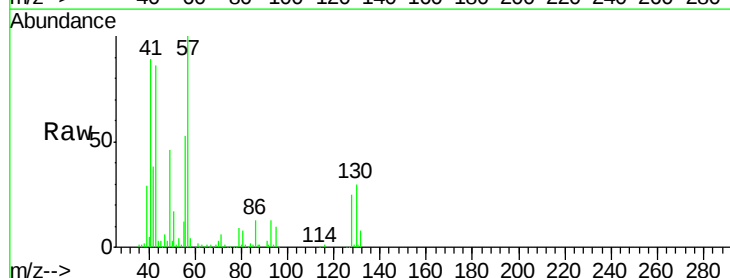
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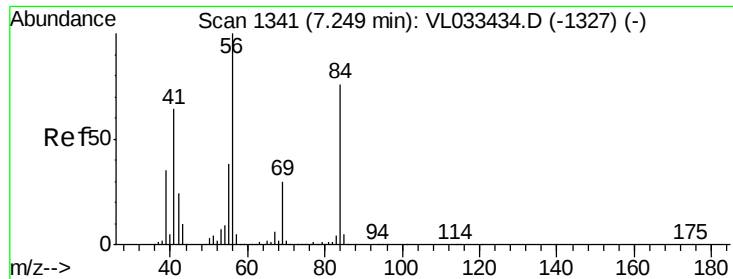
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#26
Hexane
Concen: 4.956 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033579.D
Acq: 11 Apr 2019 00:57

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	91.7	70.7	106.1	
43	109.0	182.6	274.0	
56	53.8	42.0	63.0	





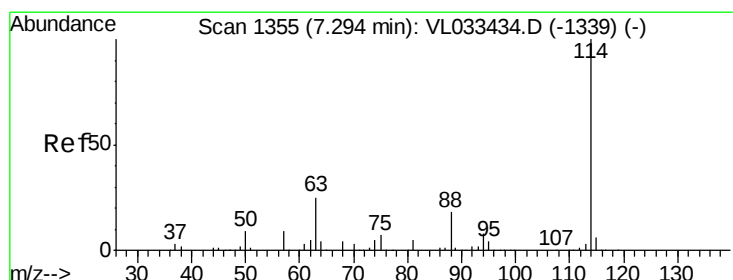
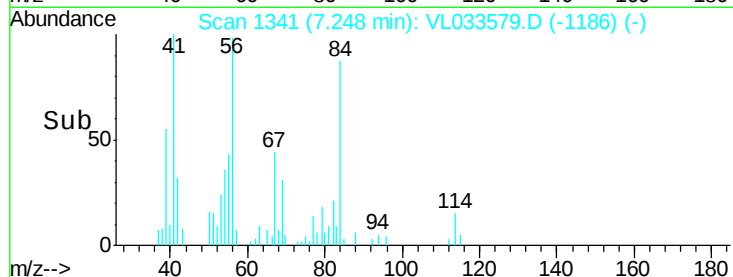
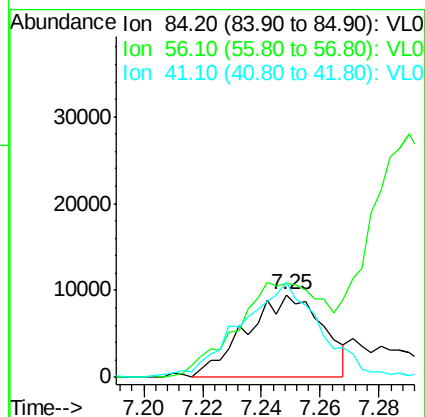
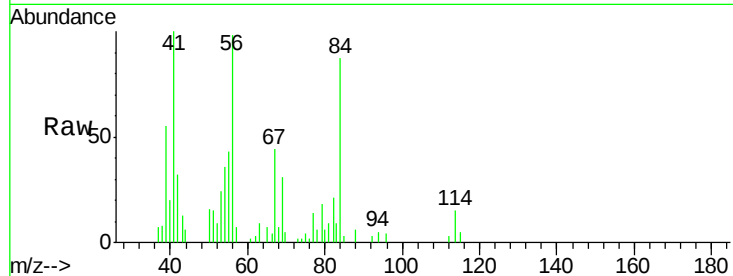
#30
Cvclohexane
Concen: 0.265 ppbv m
RT: 7.25 min Scan# 1341
Delta R.T. -0.00 min
Lab File: VL033579.D
Acq: 11 Apr 2019 00:57

Instrument :
MSVOA_L
ClientSampleId :
A-8

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	109.7	164.5#
41	0.0	68.2	102.2#

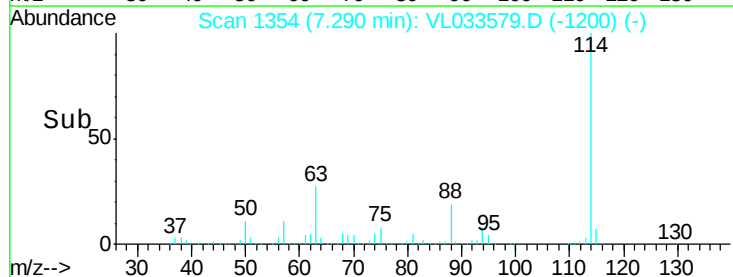
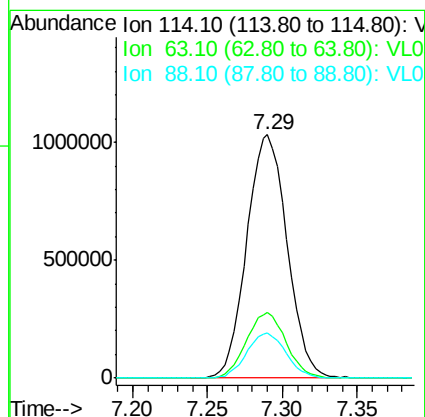
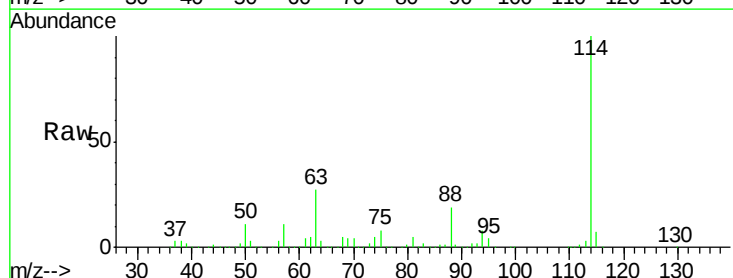
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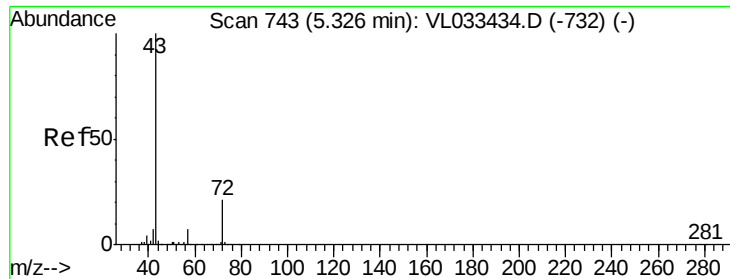
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1354
Delta R.T. -0.00 min
Lab File: VL033579.D
Acq: 11 Apr 2019 00:57

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.5	21.5	32.3
88	18.1	14.5	21.7





#34

2-Butanone

Concen: 0.179 ppbv

RT: 5.34 min Scan# 746

Delta R.T. 0.01 min

Lab File: VL033579.D

Acq: 11 Apr 2019 00:57

Instrument :

MSVOA_L

ClientSampleId :

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Tot Ion: 43 Resp: 20844

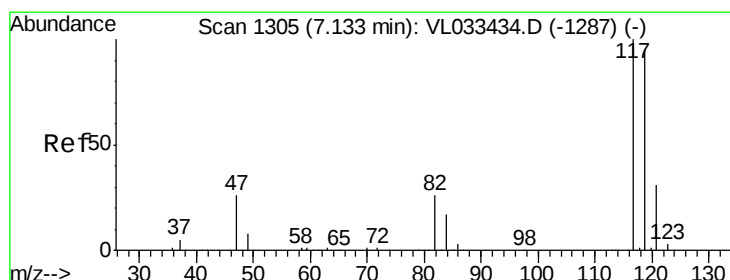
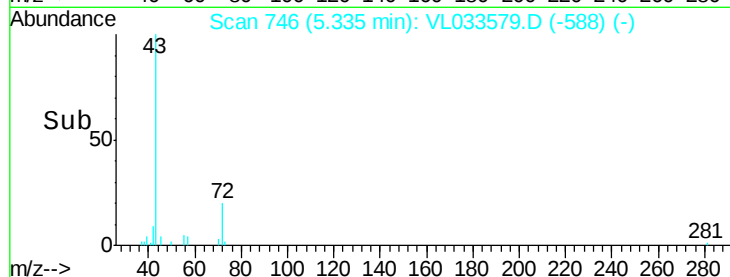
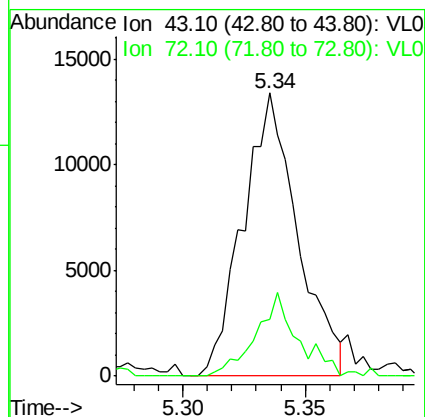
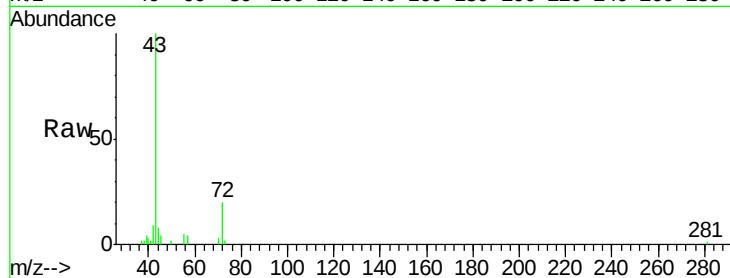
Ion Ratio Lower Upper

43 100

72 22.7 17.4 26.2

Manual Integrations
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#35

Carbon Tetrachloride

Concen: 0.057 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. -0.00 min

Lab File: VL033579.D

Acq: 11 Apr 2019 00:57

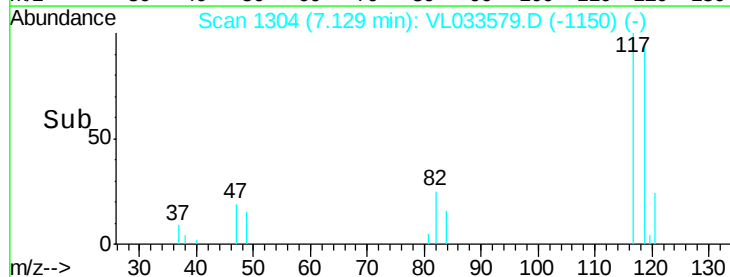
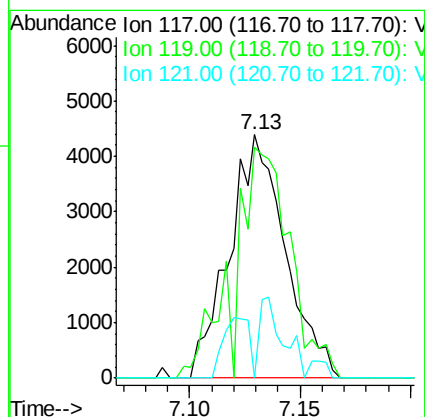
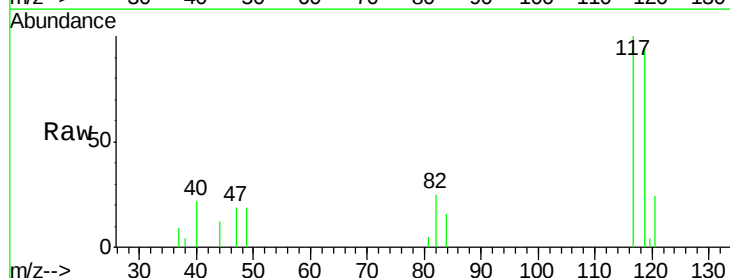
Tgt Ion: 117 Resp: 7782

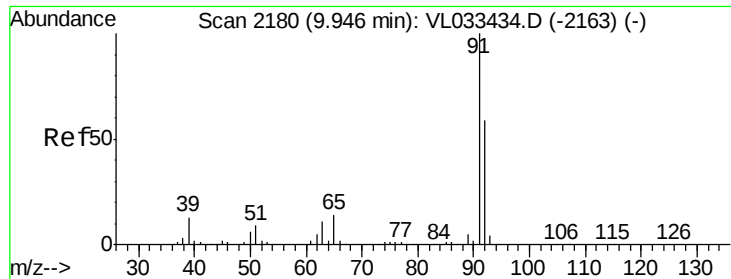
Ion Ratio Lower Upper

117 100

119 98.2 75.8 113.8

121 0.0 24.7 37.1#





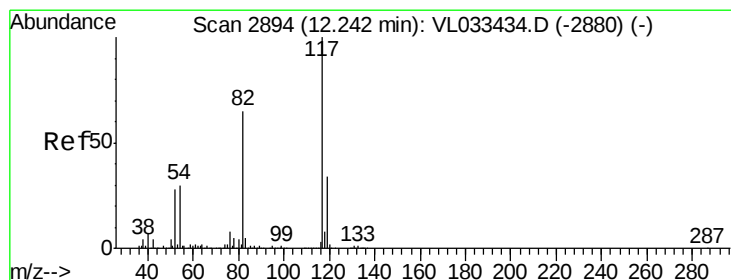
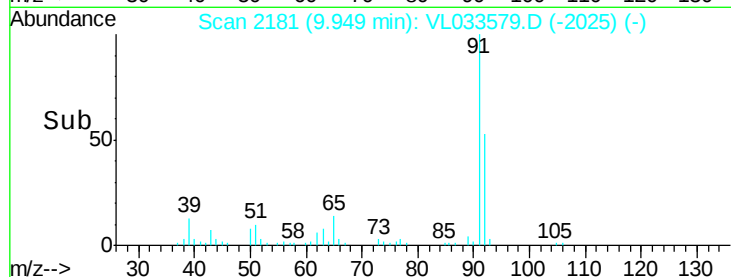
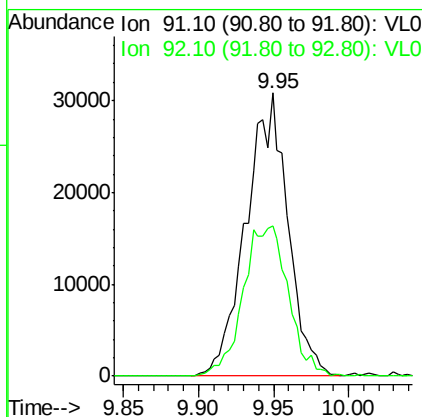
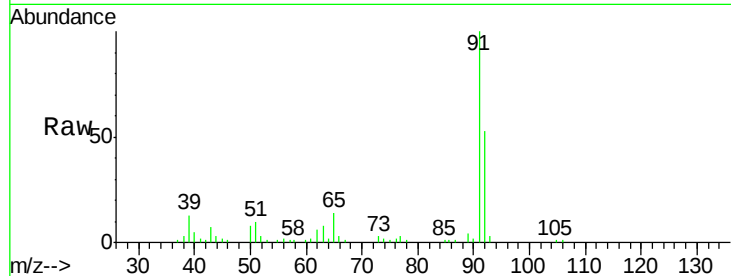
#53
Toluene
Concen: 0.315 ppbv m
RT: 9.95 min Scan# 2181
Delta R.T. 0.00 min
Lab File: VL033579.D
Acq: 11 Apr 2019 00:57

Instrument :
MSVOA_L
ClientSampleId :
A-8

Tot Ion: 91 Resp: 59525
Ion Ratio Lower Upper
91 100
92 0.0 47.4 71.0#

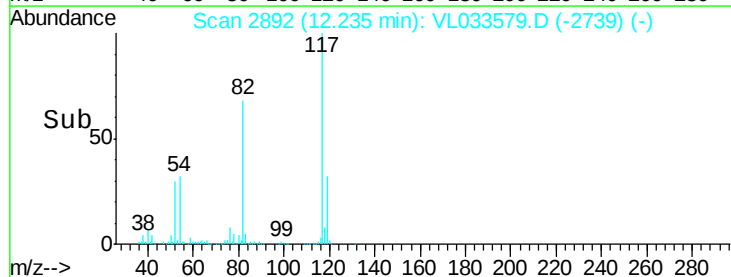
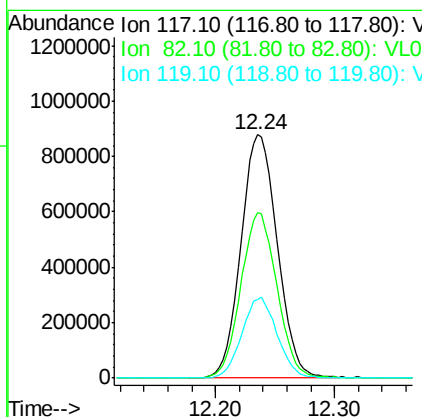
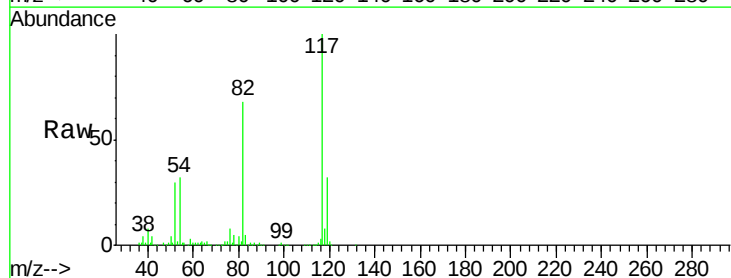
Manual Integrations
APPROVED

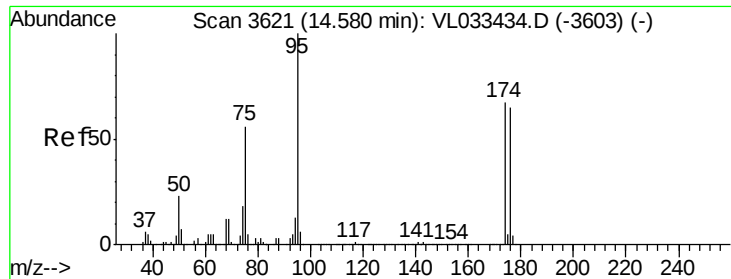
MMDadoda
4/11/2019 1:02:06 PM



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL033579.D
Acq: 11 Apr 2019 00:57

Tgt Ion: 117 Resp: 1861982
Ion Ratio Lower Upper
117 100
82 67.8 51.5 77.3
119 32.3 25.5 38.3





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.329 ppbv
 RT: 14.57 min Scan# 3619
 Delta R.T. -0.01 min
 Lab File: VL033579.D
 Acq: 11 Apr 2019 00:57

Instrument :
 MSVOA_L
 ClientSampleId :
 A-8

Tot Ion	Ratio	Lower	Upper
95	100		
174	66.6	52.9	79.3
175	4.8	3.8	5.6

Manual Integrations
 APPROVED

MMDadoda
 4/11/2019 1:02:06 PM

