

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032719\
 Data File : VL033479.D
 Acq On : 27 Mar 2019 22:08
 Operator : SY/AP
 Sample : K2042-14
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-7-SCHOOL-ENTRANCE

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:25:57 AM

Quant Time: Mar 31 11:21:43 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	5.75	49	732716	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.28	114	1669252	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.23	117	1707478	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1342215	10.03	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.30%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	31995	0.299 ppbv	90
4) Chloromethane	3.17	50	23895	0.535 ppbv	94
9) Propene	3.04	41	45528m	1.285 ppbv	
10) Heptane	8.23	43	15384m	0.162 ppbv	
11) Trichlorofluoromethane	3.99	101	31029	0.236 ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	7011m	0.079 ppbv	
13) Ethanol	3.66	45	5236452	571.226 ppbv	66
15) Acetone	3.89	43	613619	6.965 ppbv	100
17) tert-Butyl alcohol	4.37	59	19134m	1.181 ppbv	
19) Isopropyl Alcohol	4.03	45	978179	17.554 ppbv #	99
20) Methylene Chloride	4.40	84	19937	0.533 ppbv #	79
26) Hexane	5.77	57	30772	0.423 ppbv #	67
29) Chloroform	5.84	83	9506m	0.076 ppbv	
34) 2-Butanone	5.32	43	30607m	0.305 ppbv	
35) Carbon Tetrachloride	7.12	117	8110m	0.069 ppbv	
36) Benzene	6.99	78	38740	0.277 ppbv	98
53) Toluene	9.94	91	266632	1.638 ppbv	97
58) Ethyl Benzene	12.86	91	42312	0.186 ppbv	99
59) m/p-Xylene	13.11	91	177609m	0.872 ppbv	
60) o-Xylene	13.84	91	37024	0.188 ppbv	99

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

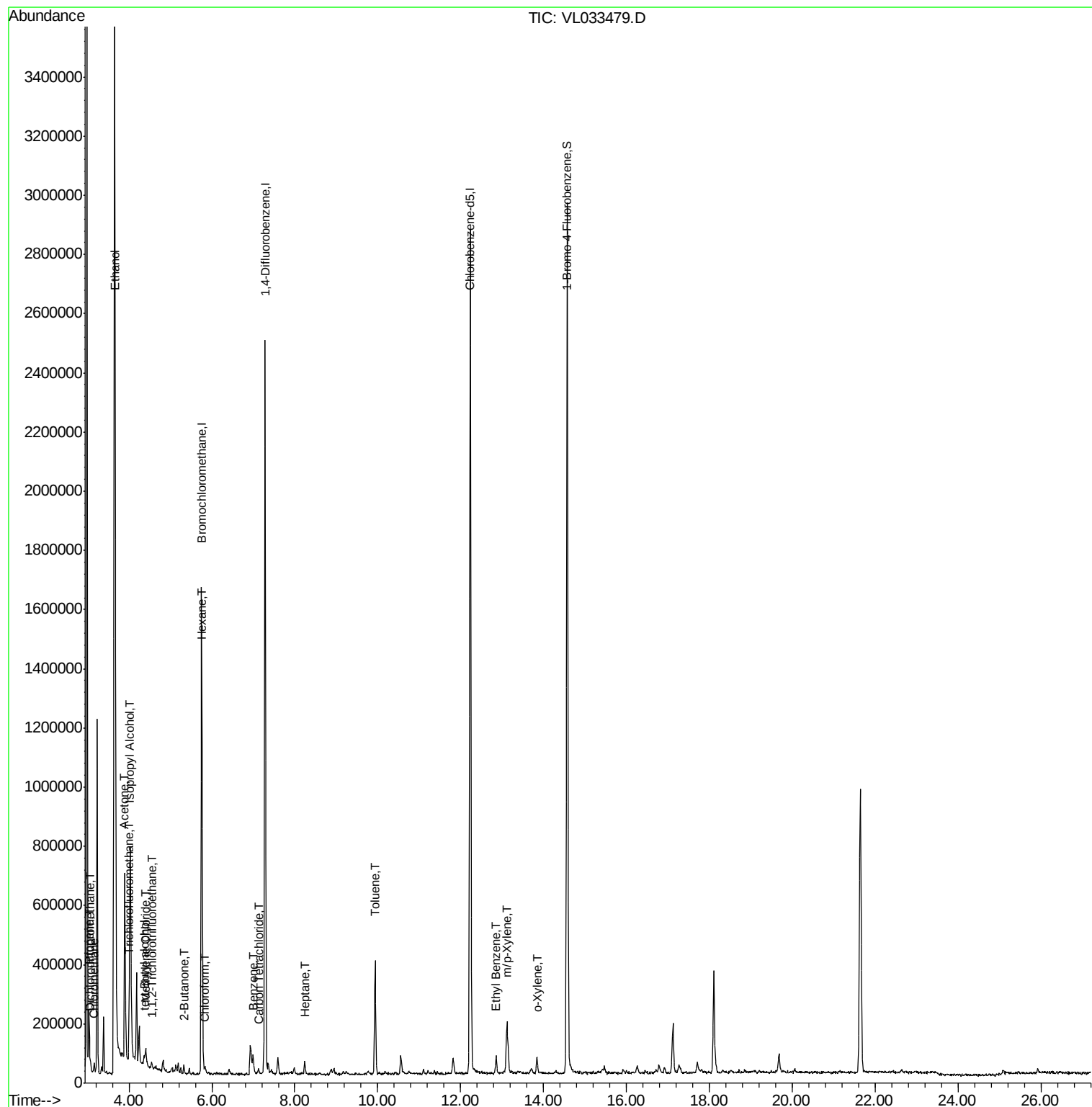
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032719\
Data File : VL033479.D
Acq On : 27 Mar 2019 22:08
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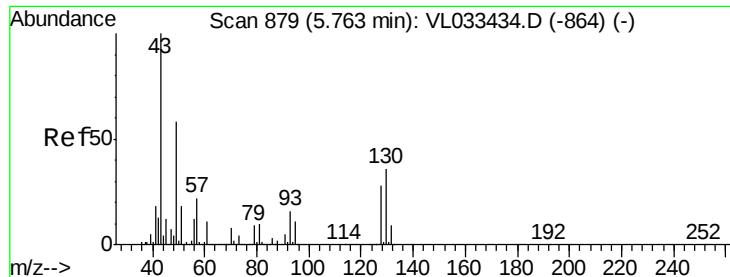
Instrument :
MSVOA_L
ClientSampleId :
IAS-7-SCHOOL-ENTRANCE

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4/1/2019 1:25:57 AM

Quant Time: Mar 31 11:21:43 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 875

Delta R.T. -0.01 min

Lab File: VL033479.D

Acq: 27 Mar 2019 22:08

Instrument :

MSVOA_L

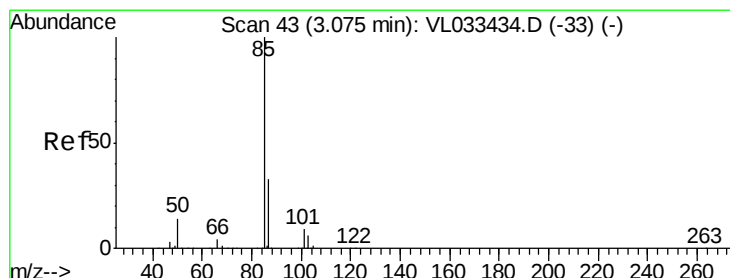
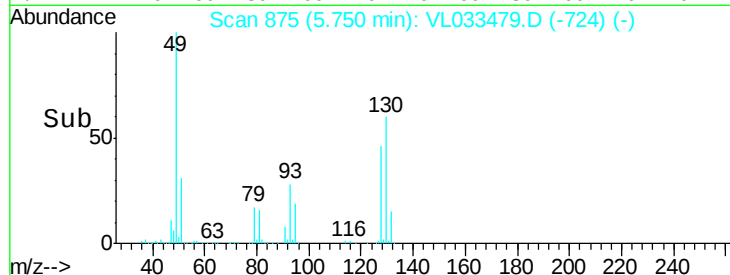
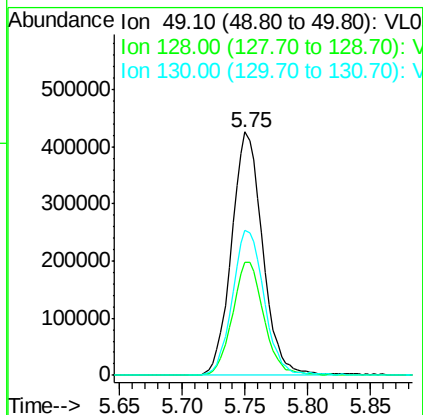
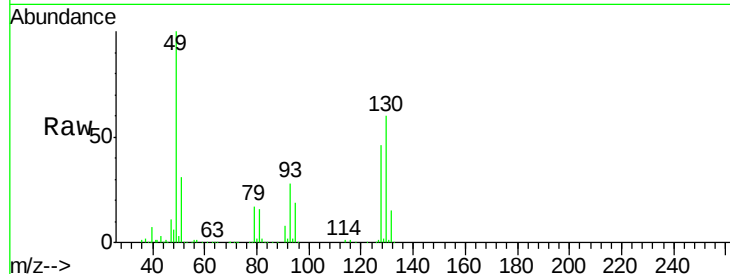
ClientSampleId :

IAS-7-SCHOOL-ENTRANCE

Tot Ion:	49	Resp:	732716
Ion	Ratio	Lower	Upper
49	100		
128	47.1	24.0	72.0
130	61.0	31.2	93.6

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#2

Dichlorodifluoromethane

Concen: 0.299 ppbv

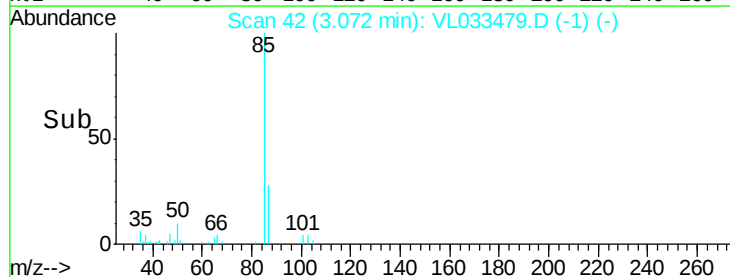
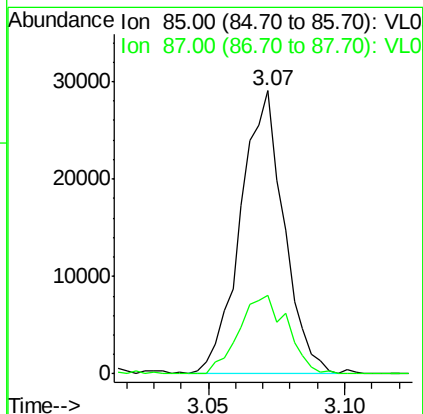
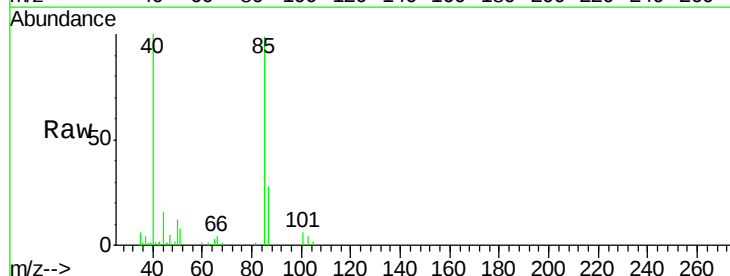
RT: 3.07 min Scan# 42

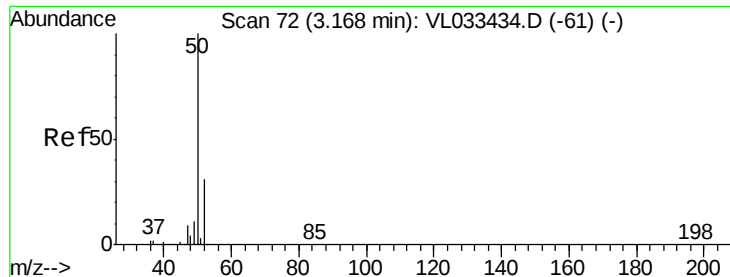
Delta R.T. -0.00 min

Lab File: VL033479.D

Acq: 27 Mar 2019 22:08

Tgt Ion:	85	Resp:	31995
Ion	Ratio	Lower	Upper
85	100		
87	27.9	26.7	40.1





#4

Chloromethane

Concen: 0.535 ppbv

RT: 3.17 min Scan# 71

Delta R.T. -0.00 min

Lab File: VL033479.D

Acq: 27 Mar 2019 22:08

Instrument :

MSVOA_L

ClientSampleId :

IAS-7-SCHOOL-ENTRANCE

Tot Ion: 50 Resp: 23895

Ion Ratio Lower Upper

50 100

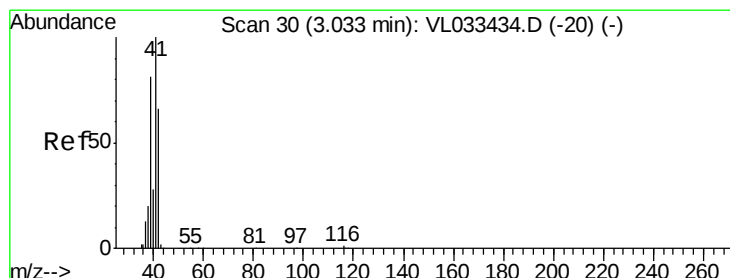
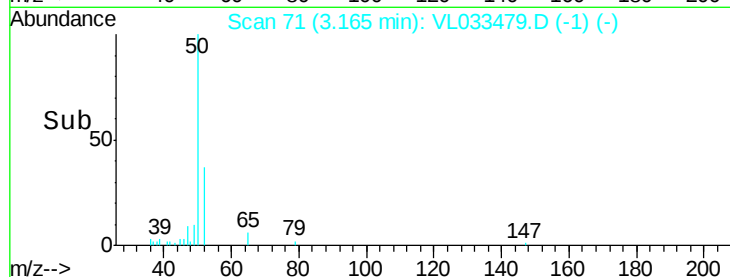
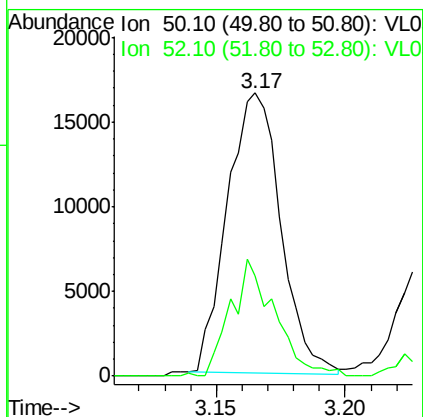
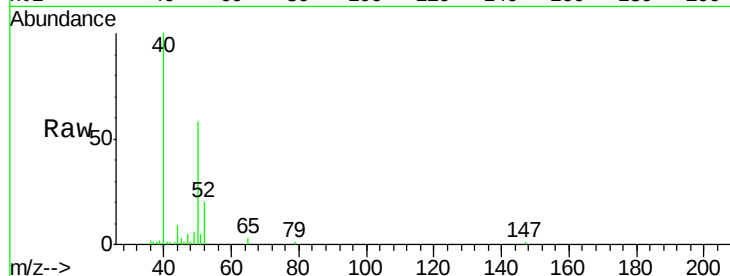
52 34.8 25.0 37.6

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#9

Propene

Concen: 1.285 ppbv m

RT: 3.04 min Scan# 32

Delta R.T. 0.01 min

Lab File: VL033479.D

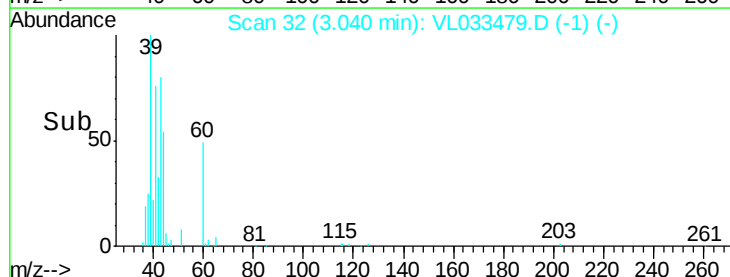
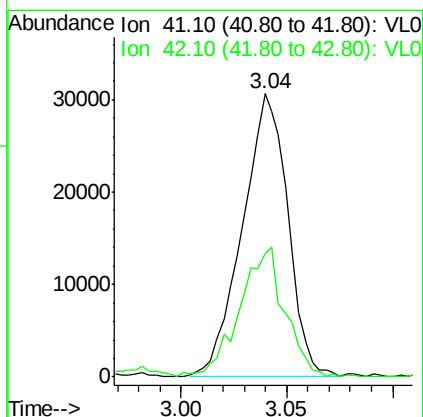
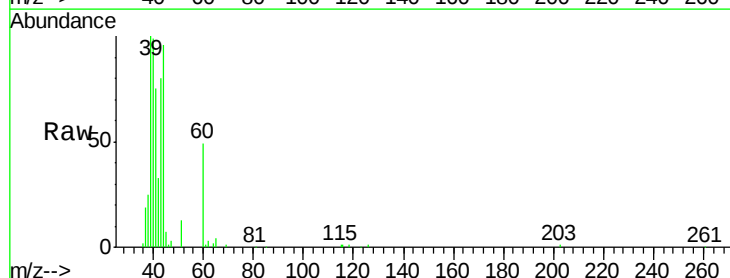
Acq: 27 Mar 2019 22:08

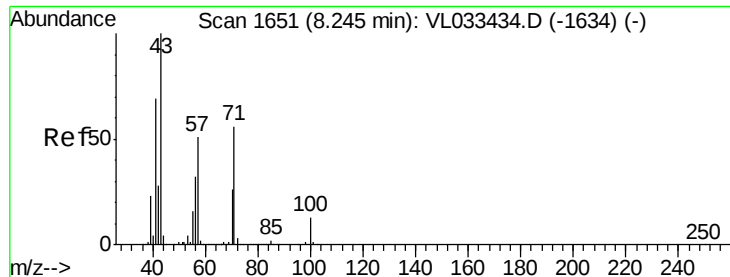
Tgt Ion: 41 Resp: 45528

Ion Ratio Lower Upper

41 100

42 446.8 53.9 80.9#





#10

Heptane

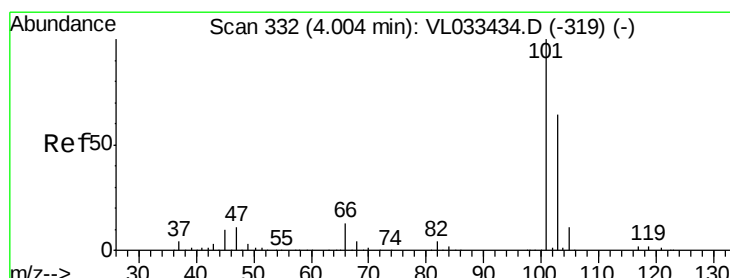
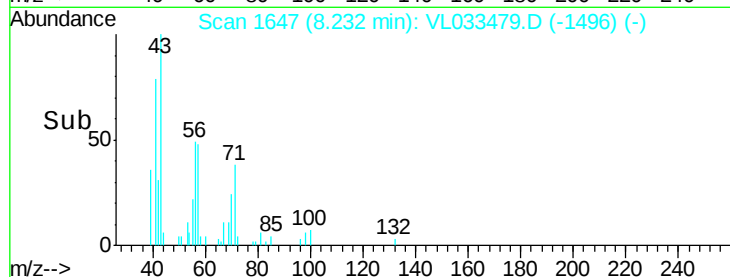
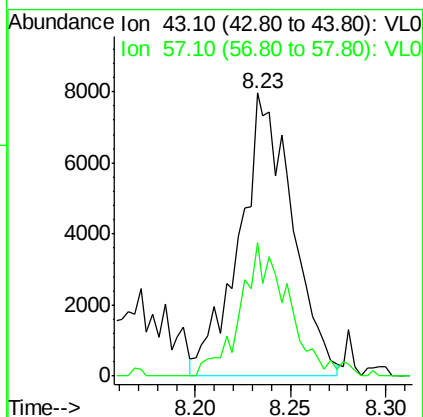
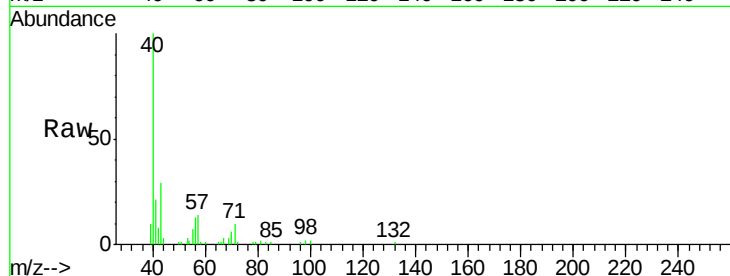
Concen: 0.162 ppbv m
 RT: 8.23 min Scan# 1647
 Delta R.T. -0.01 min
 Lab File: VL033479.D
 Acq: 27 Mar 2019 22:08

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-7-SCHOOL-ENTRANCE

Tot Ion: 43 Resp: 15384
 Ion Ratio Lower Upper
 43 100
 57 43.1 40.6 60.8

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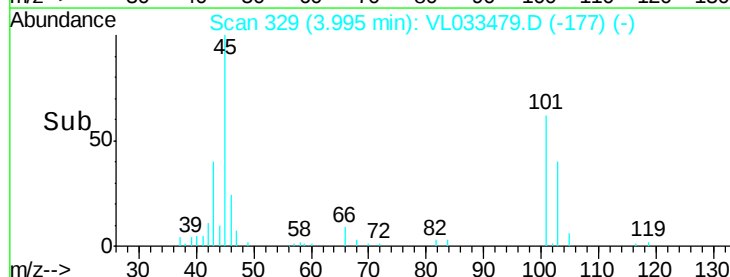
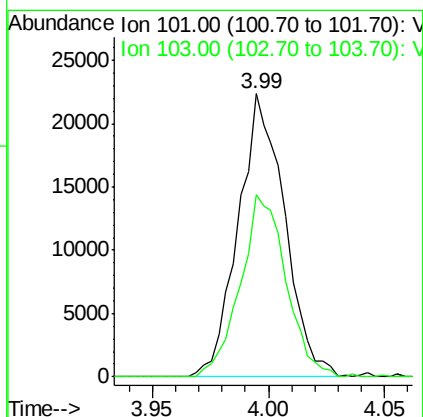
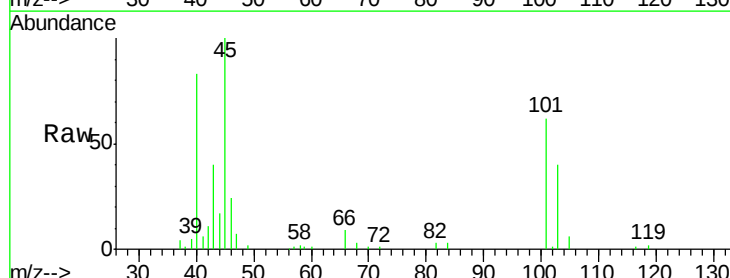


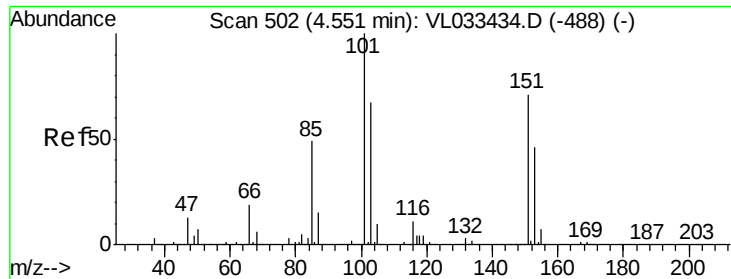
#11

Trichlorofluoromethane

Concen: 0.236 ppbv
 RT: 3.99 min Scan# 329
 Delta R.T. -0.01 min
 Lab File: VL033479.D
 Acq: 27 Mar 2019 22:08

Tgt Ion: 101 Resp: 31029
 Ion Ratio Lower Upper
 101 100
 103 64.6 51.3 76.9





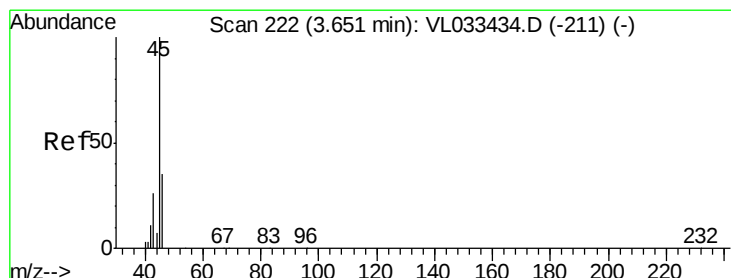
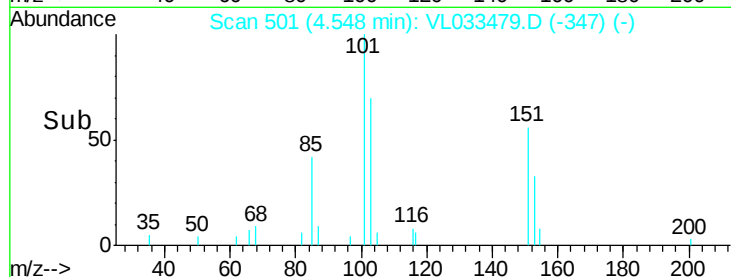
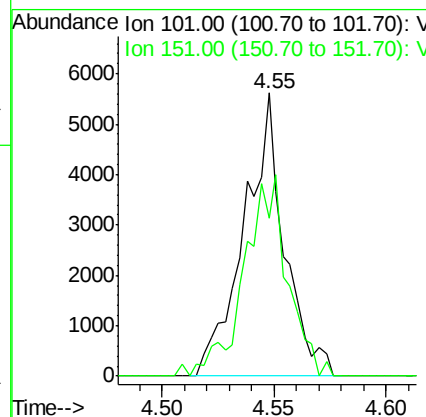
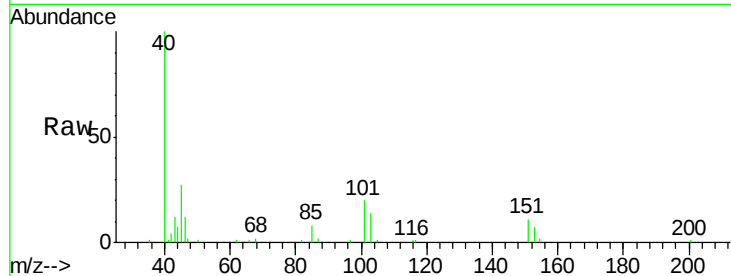
#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.079 ppbv
 RT: 4.55 min Scan# 501
 Delta R.T. -0.00 min
 Lab File: VL033479.D
 Acq: 27 Mar 2019 22:08

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-7-SCHOOL-ENTRANCE

Tot Ion: 101 Resp: 7011
 Ion Ratio Lower Upper
 101 100
 151 0.0 57.7 86.5#

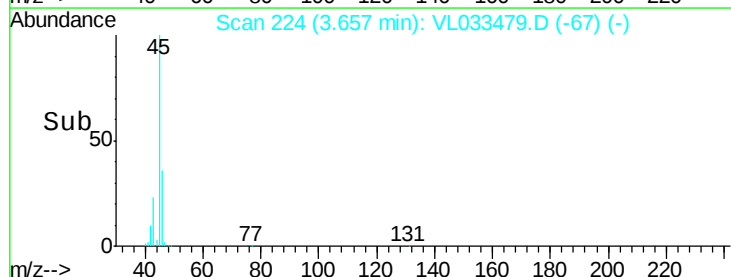
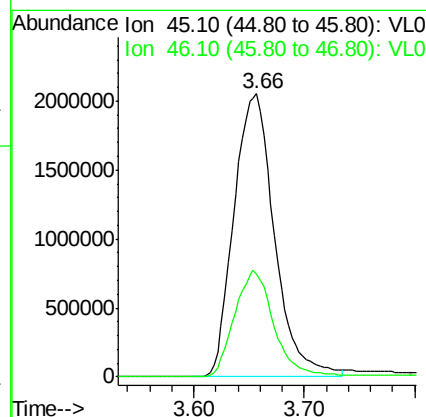
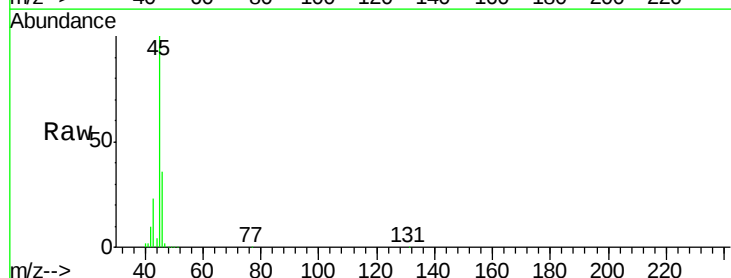
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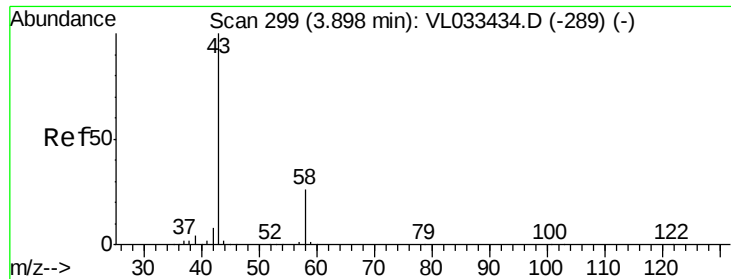
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#13
 Ethanol
 Concen: 571.226 ppbv
 RT: 3.66 min Scan# 224
 Delta R.T. 0.01 min
 Lab File: VL033479.D
 Acq: 27 Mar 2019 22:08

Tgt Ion: 45 Resp: 5236452
 Ion Ratio Lower Upper
 45 100
 46 37.0 25.4 101.8





#15

Acetone

Concen: 6.965 ppbv

RT: 3.89 min Scan# 297

Delta R.T. -0.01 min

Lab File: VL033479.D

Acq: 27 Mar 2019 22:08

Instrument :

MSVOA_L

ClientSampleId :

IAS-7-SCHOOL-ENTRANCE

Tot Ion: 43 Resp: 613619

Ion Ratio Lower Upper

43 100

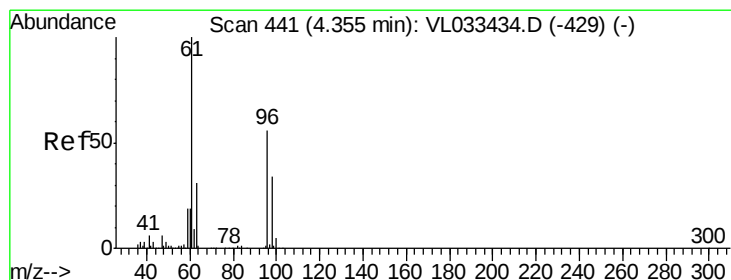
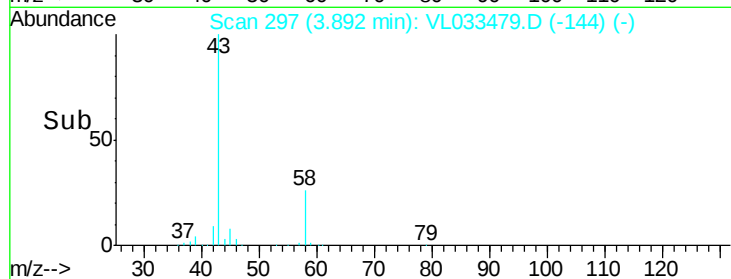
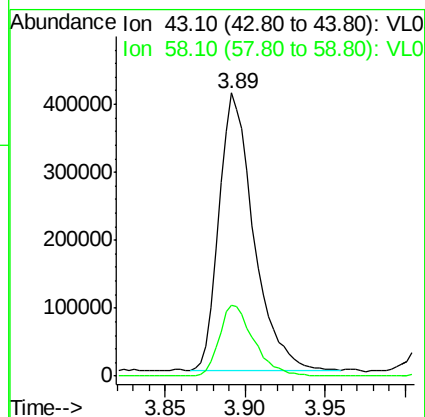
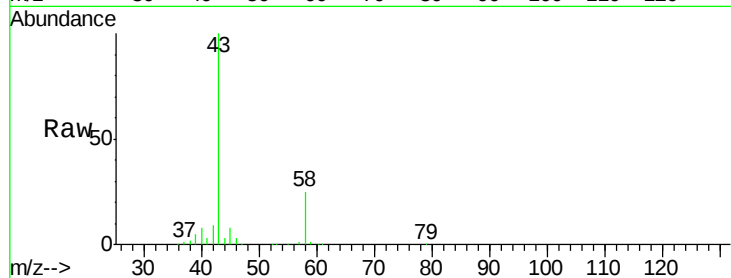
58 25.6 20.5 30.7

Manual Integrations

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#17

tert-Butyl alcohol

Concen: 1.181 ppbv m

RT: 4.37 min Scan# 445

Delta R.T. 0.01 min

Lab File: VL033479.D

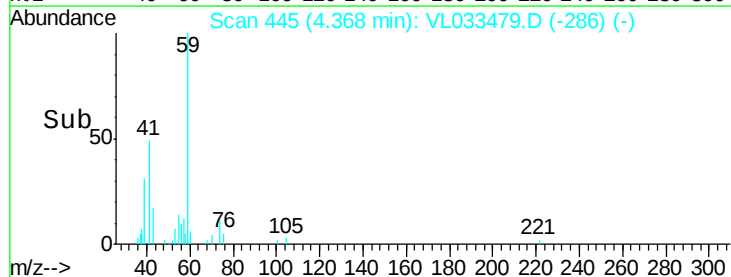
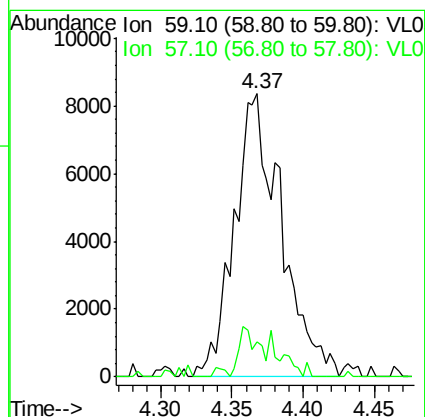
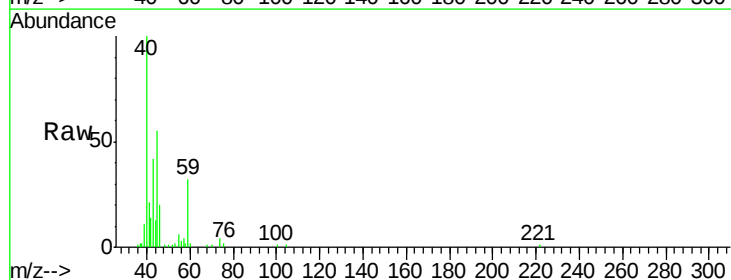
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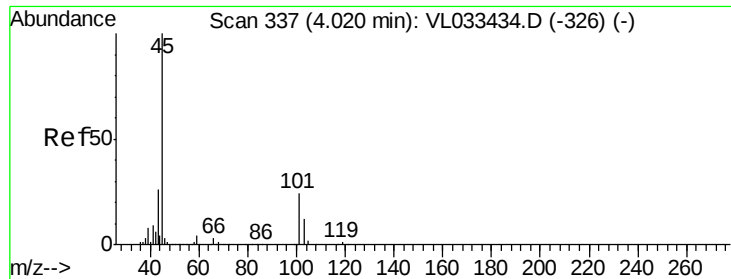
Tgt Ion: 59 Resp: 19134

Ion Ratio Lower Upper

59 100

57 12.7 7.8 11.8#





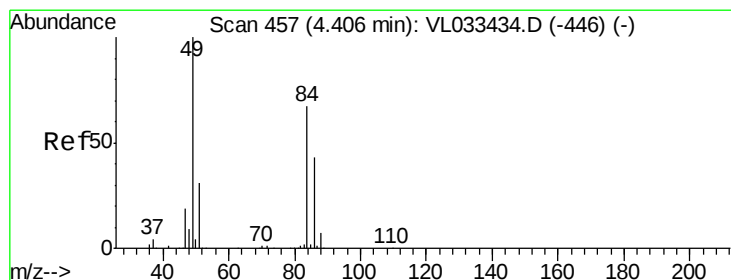
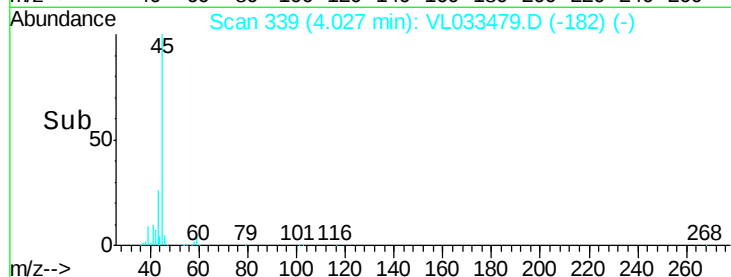
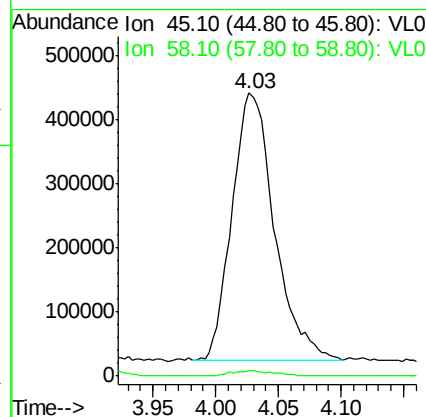
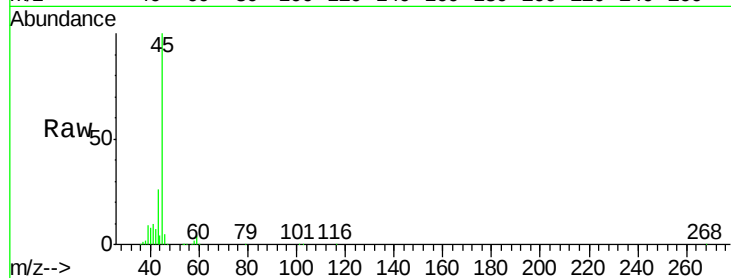
#19
Isopropyl Alcohol
Concen: 17.554 ppbv
RT: 4.03 min Scan# 339
Delta R.T. 0.01 min
Lab File: VL033479.D
Acq: 27 Mar 2019 22:08

Instrument :
MSVOA_L
ClientSampleId :
IAS-7-SCHOOL-ENTRANCE

Tot Ion: 45 Resp: 978179
Ion Ratio Lower Upper
45 100
58 2.2 1.4 2.2#

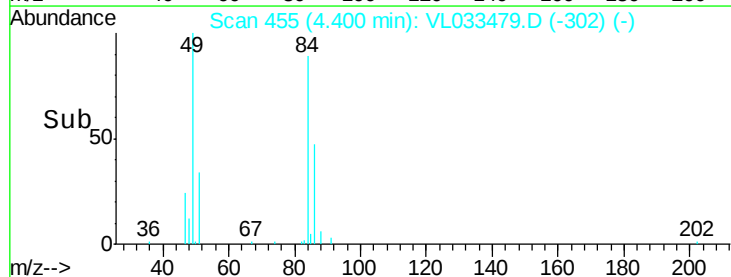
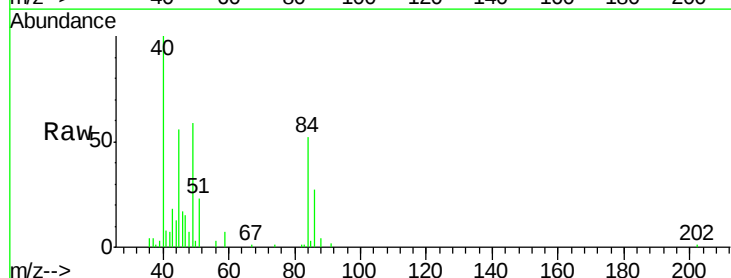
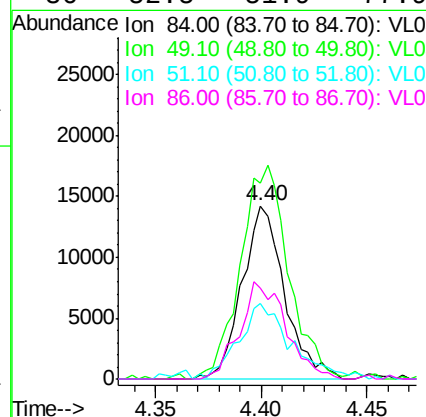
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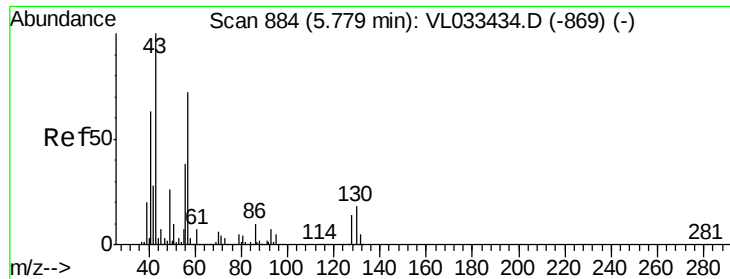
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#20
Methylene Chloride
Concen: 0.533 ppbv
RT: 4.40 min Scan# 455
Delta R.T. -0.01 min
Lab File: VL033479.D
Acq: 27 Mar 2019 22:08

Tgt Ion: 84 Resp: 19937
Ion Ratio Lower Upper
84 100
49 113.4 120.0 180.0#
51 42.7 36.7 55.1
86 52.5 51.9 77.9





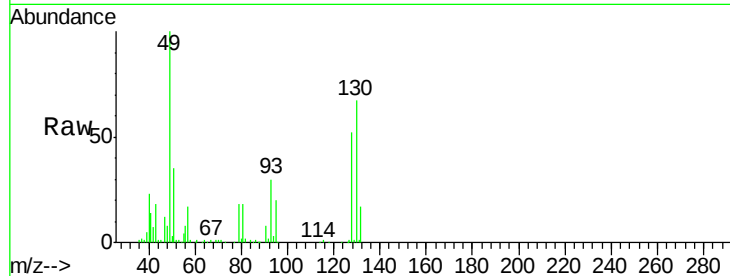
#26
Hexane
Concen: 0.423 ppbv
RT: 5.77 min Scan# 881
Delta R.T. -0.01 min
Lab File: VL033479.D
Acq: 27 Mar 2019 22:08

Instrument :
MSVOA_L
ClientSampleId :
IAS-7-SCHOOL-ENTRANCE

Tot Ion	Ratio	Lower	Upper
57	100		
41	101.6	70.7	106.1
43	151.9	182.6	274.0#
56	58.9	42.0	63.0

Manual Integrations
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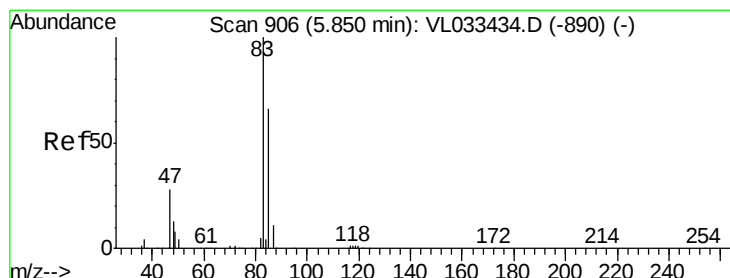
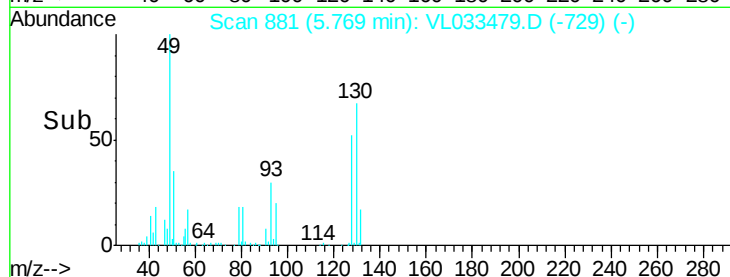
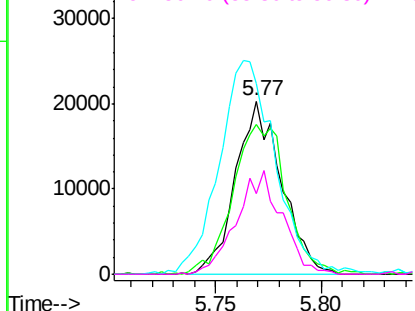
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

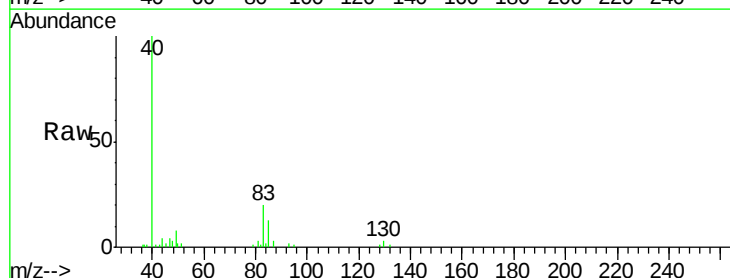
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#29
Chloroform
Concen: 0.076 ppbv m
RT: 5.84 min Scan# 903
Delta R.T. -0.01 min
Lab File: VL033479.D
Acq: 27 Mar 2019 22:08

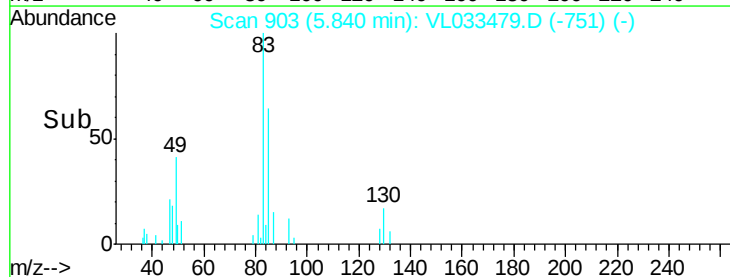
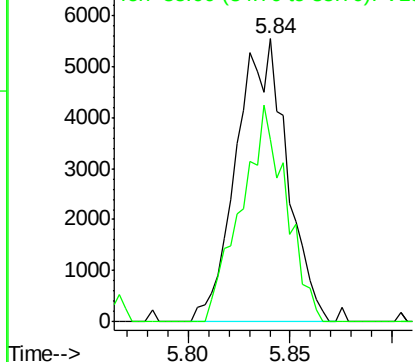
Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.4	52.6	79.0

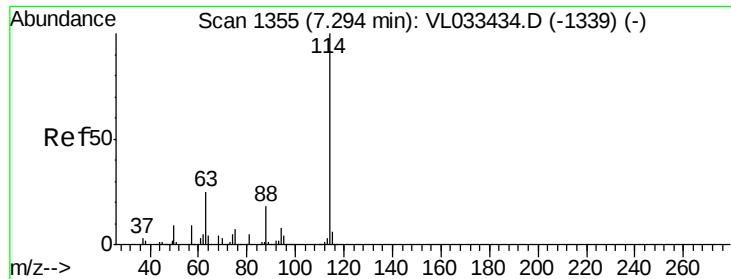


Abundance

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0





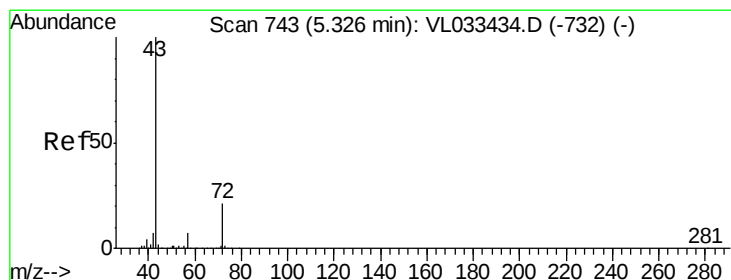
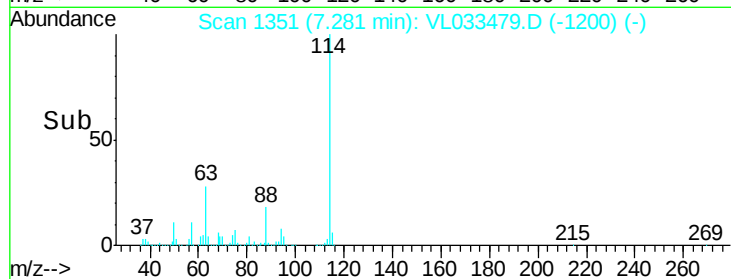
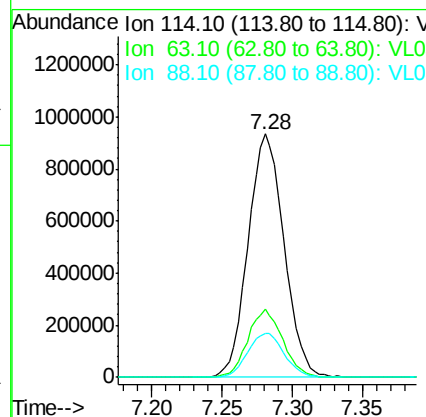
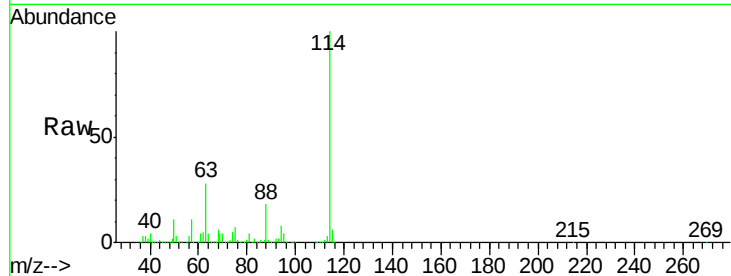
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1351
 Delta R.T. -0.01 min
 Lab File: VL033479.D
 Acq: 27 Mar 2019 22:08

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-7-SCHOOL-ENTRANCE

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.2	21.5	32.3
88	18.4	14.5	21.7

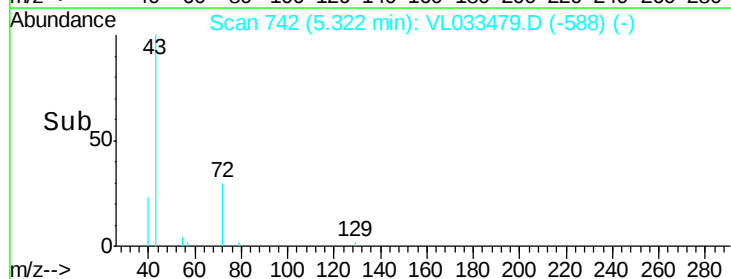
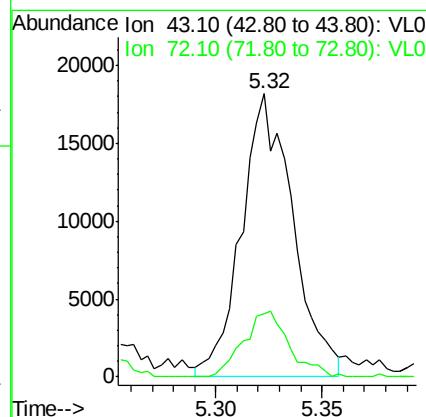
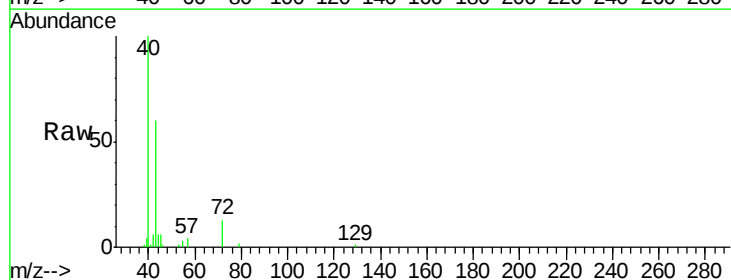
Manual Integrations
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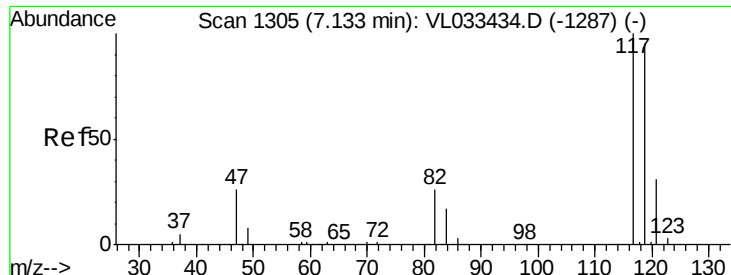
MMDadoda
 4/1/2019 1:25:57 AM



#34
 2-Butanone
 Concen: 0.305 ppbv m
 RT: 5.32 min Scan# 742
 Delta R.T. -0.00 min
 Lab File: VL033479.D
 Acq: 27 Mar 2019 22:08

Tgt Ion	Ratio	Lower	Upper
43	100		
72	0.0	17.4	26.2#





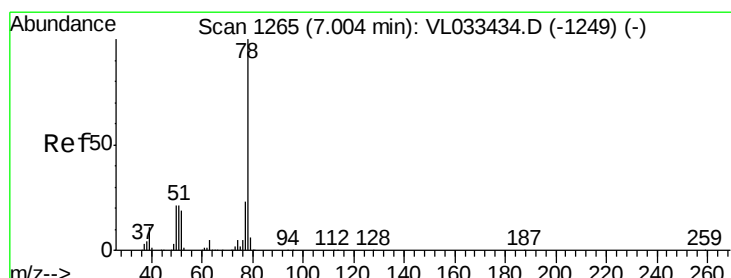
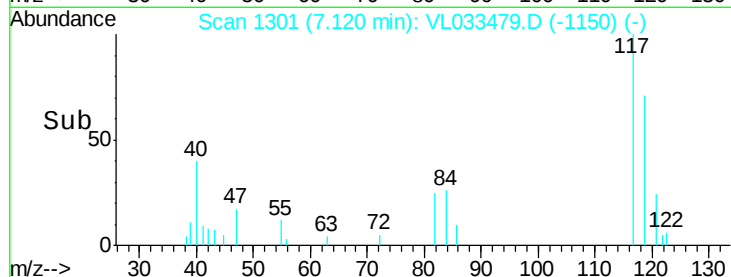
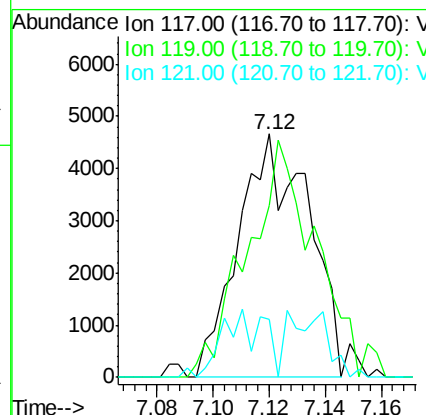
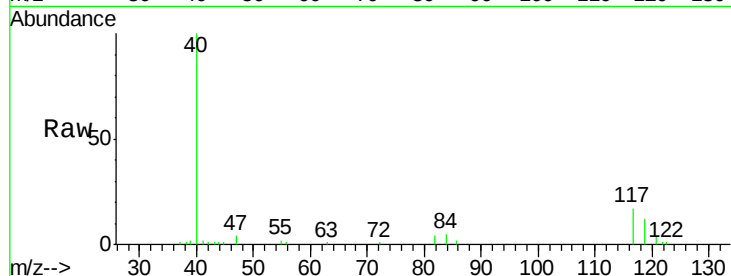
#35
Carbon Tetrachloride
Concen: 0.069 ppbv m
RT: 7.12 min Scan# 1301
Delta R.T. -0.01 min
Lab File: VL033479.D
Acq: 27 Mar 2019 22:08

Instrument :
MSVOA_L
ClientSampleId :
IAS-7-SCHOOL-ENTRANCE

Tot Ion	Ratio	Lower	Upper
117	100		
119	70.7	75.8	113.8#
121	23.8	24.7	37.1#

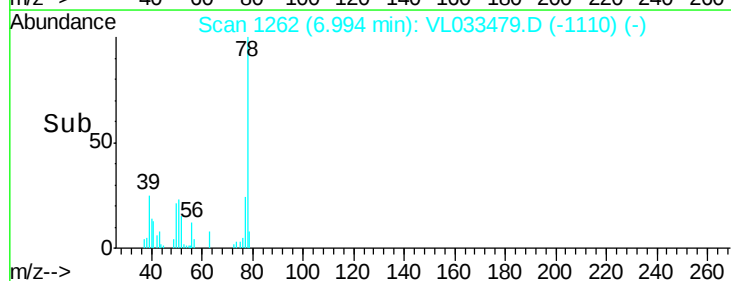
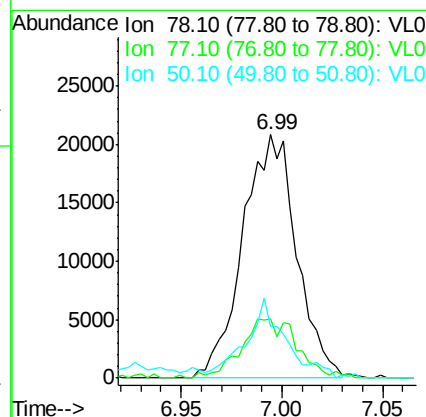
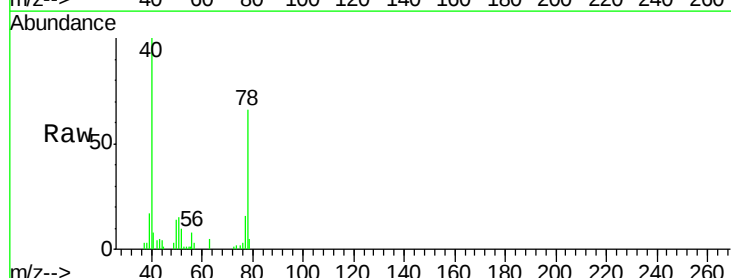
Manual Integrations
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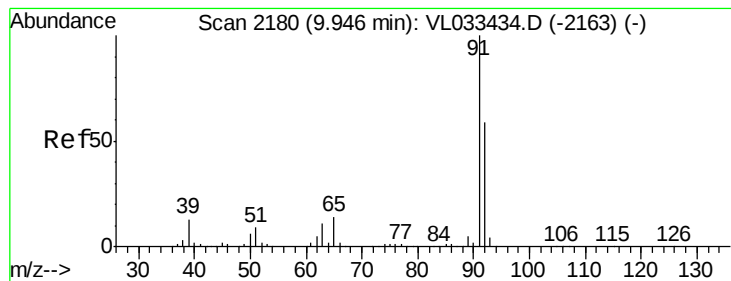
MMDadoda
4/1/2019 1:25:57 AM



#36
Benzene
Concen: 0.277 ppbv
RT: 6.99 min Scan# 1262
Delta R.T. -0.01 min
Lab File: VL033479.D
Acq: 27 Mar 2019 22:08

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.2	18.1	27.1
50	20.3	16.7	25.1





#53

Toluene

Concen: 1.638 ppbv

RT: 9.94 min Scan# 2177

Delta R.T. -0.01 min

Lab File: VL033479.D

Acq: 27 Mar 2019 22:08

Instrument :

MSVOA_L

ClientSampleId :

IAS-7-SCHOOL-ENTRANCE

Tot Ion: 91 Resp: 266632

Ion Ratio Lower Upper

91 100

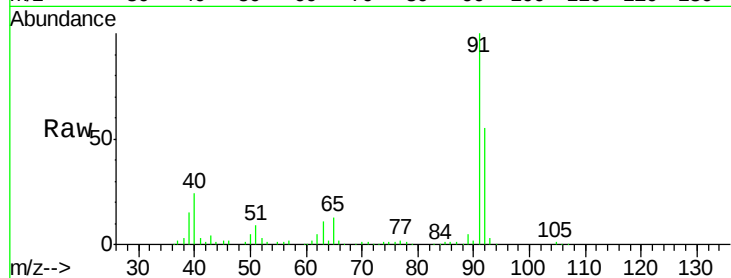
92 56.7 47.4 71.0

Manual Integrations

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.94

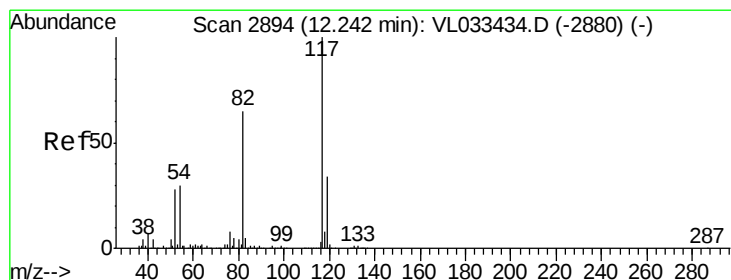
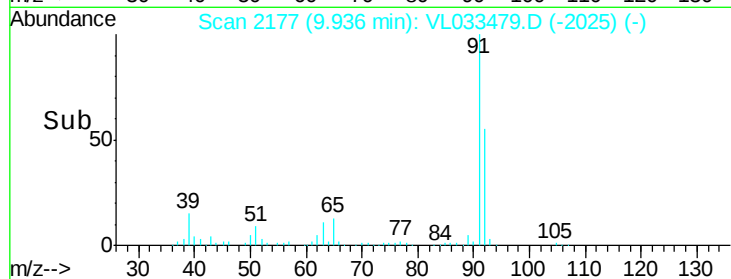
150000

100000

50000

0

Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2891

Delta R.T. -0.01 min

Lab File: VL033479.D

Acq: 27 Mar 2019 22:08

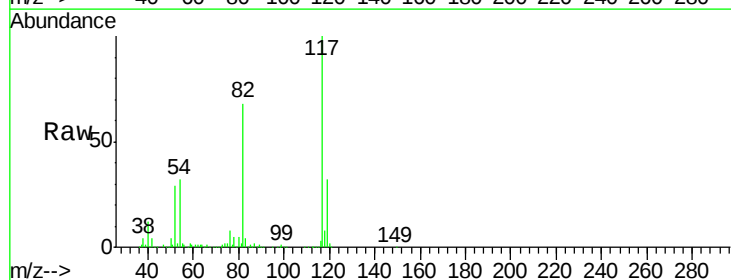
Tgt Ion: 117 Resp: 1707478

Ion Ratio Lower Upper

117 100

82 67.9 51.5 77.3

119 31.9 25.5 38.3



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

12.23

1000000

800000

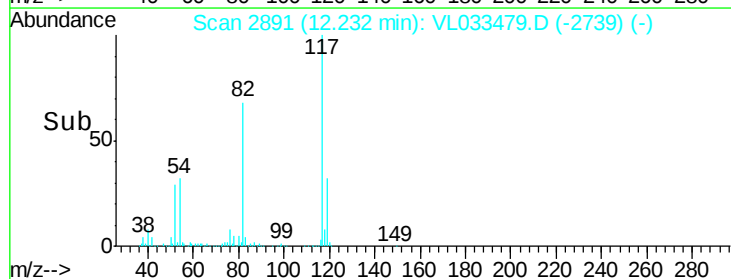
600000

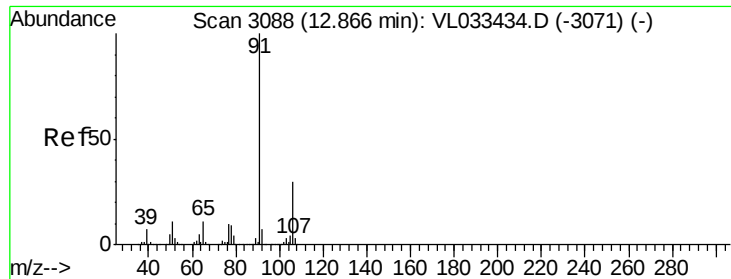
400000

200000

0

Time-->





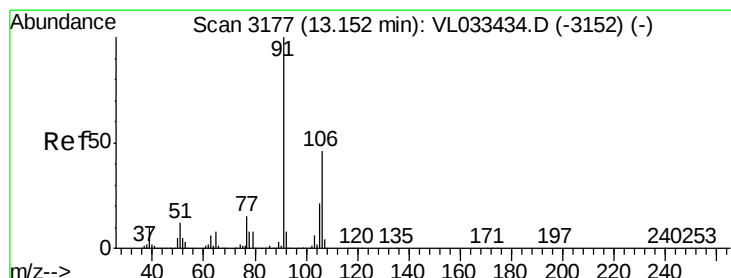
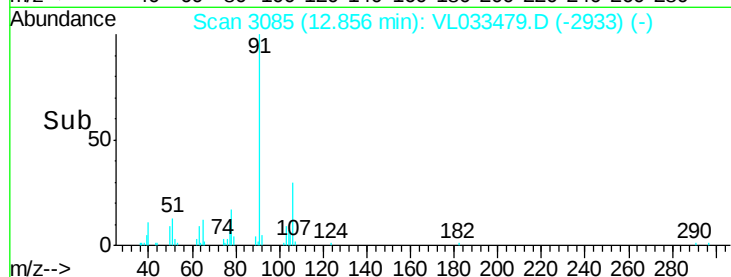
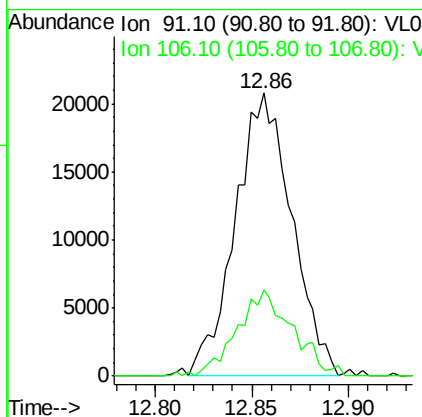
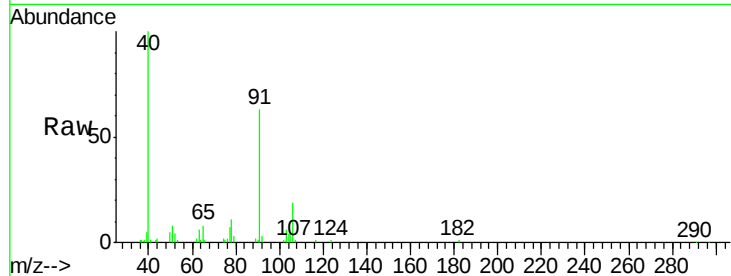
#58
Ethyl Benzene
Concen: 0.186 ppbv
RT: 12.86 min Scan# 3085
Delta R.T. -0.01 min
Lab File: VL033479.D
Acq: 27 Mar 2019 22:08

Instrument :
MSVOA_L
ClientSampleId :
IAS-7-SCHOOL-ENTRANCE

Tot Ion: 91 Resp: 42312
Ion Ratio Lower Upper
91 100
106 29.0 23.8 35.6

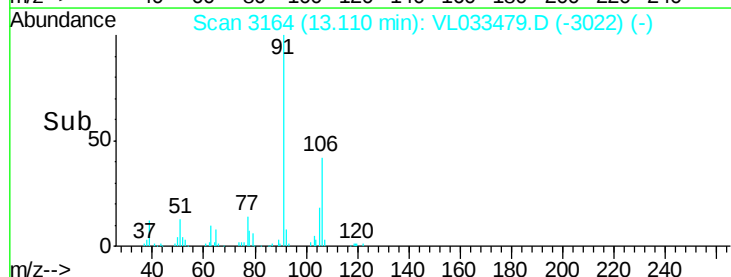
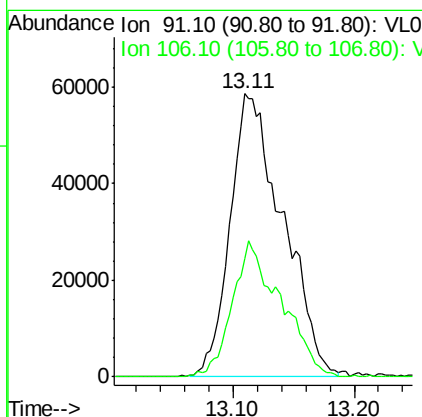
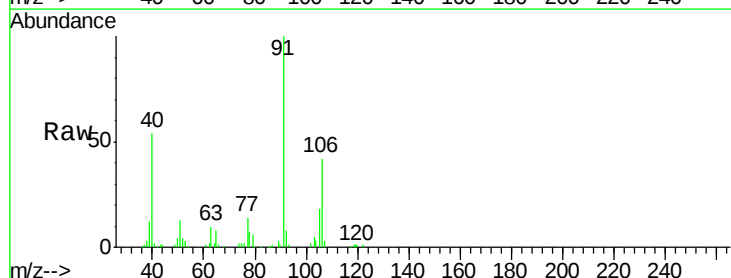
Manual Integrations
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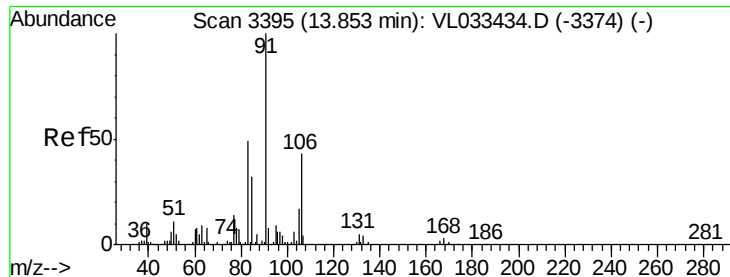
MMDadoda
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#59
m/p-Xylene
Concen: 0.872 ppbv m
RT: 13.11 min Scan# 3164
Delta R.T. -0.04 min
Lab File: VL033479.D
Acq: 27 Mar 2019 22:08

Tgt Ion: 91 Resp: 177609
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0





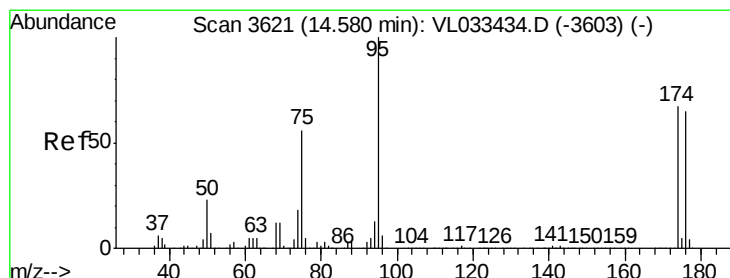
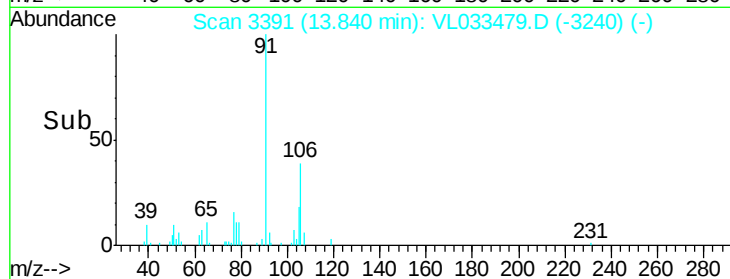
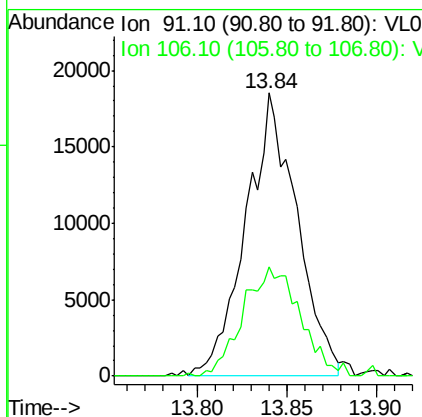
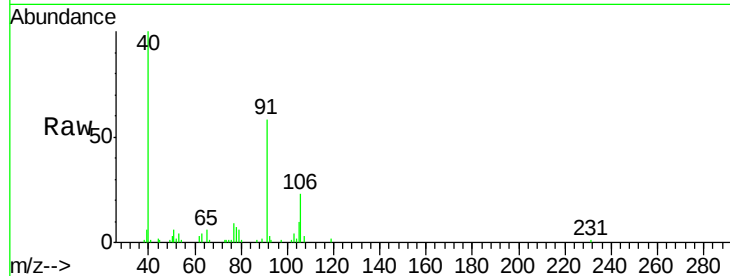
#60
o-Xylene
Concen: 0.188 ppbv
RT: 13.84 min Scan# 3391
Delta R.T. -0.01 min
Lab File: VL033479.D
Acq: 27 Mar 2019 22:08

Instrument :
MSVOA_L
ClientSampleId :
IAS-7-SCHOOL-ENTRANCE

Tot Ion: 91 Resp: 37024
Ion Ratio Lower Upper
91 100
106 43.6 21.4 64.3

Manual Integrations
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4/1/2019 1:25:57 AM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.027 ppbv
RT: 14.57 min Scan# 3618
Delta R.T. -0.01 min
Lab File: VL033479.D
Acq: 27 Mar 2019 22:08

Tgt Ion: 95 Resp: 1342215
Ion Ratio Lower Upper
95 100
174 65.7 52.9 79.3
175 4.8 3.8 5.6

