

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032919\
 Data File : VL033500.D
 Acq On : 29 Mar 2019 13:36
 Operator : SY/AP
 Sample : K2042-16
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-4-STORAGE-RM-BY-THE-CAFE

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 4:03:47 AM

Quant Time: Mar 30 01:56:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue 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	843850	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2063915	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1998577	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1553351	9.91	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	27336	0.222	ppbv	90
4) Chloromethane	3.17	50	29185	0.568	ppbv	99
9) Propene	3.05	41	27269m	0.668	ppbv	
10) Heptane	8.25	43	20984m	0.192	ppbv	
11) Trichlorofluoromethane	4.00	101	38142	0.251	ppbv	99
13) Ethanol	3.65	45	2044451	193.650	ppbv	65
15) Acetone	3.90	43	598117	5.895	ppbv	100
17) tert-Butyl alcohol	4.36	59	10857m	0.582	ppbv	
19) Isopropyl Alcohol	4.03	45	679247	10.584	ppbv #	98
20) Methylene Chloride	4.41	84	328953	7.638	ppbv	94
26) Hexane	5.77	57	279505	3.339	ppbv #	42
34) 2-Butanone	5.33	43	35656	0.288	ppbv	93
35) Carbon Tetrachloride	7.13	117	10229m	0.070	ppbv	
36) Benzene	7.00	78	43008	0.248	ppbv	97
53) Toluene	9.94	91	1109992	5.516	ppbv	100
58) Ethyl Benzene	12.86	91	22971	0.086	ppbv	97
59) m/p-Xylene	13.12	91	63399m	0.266	ppbv	
60) o-Xylene	13.85	91	20723m	0.090	ppbv	
74) 1,2,4-Trimethylbenzene	16.93	105	35002m	0.132	ppbv	

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

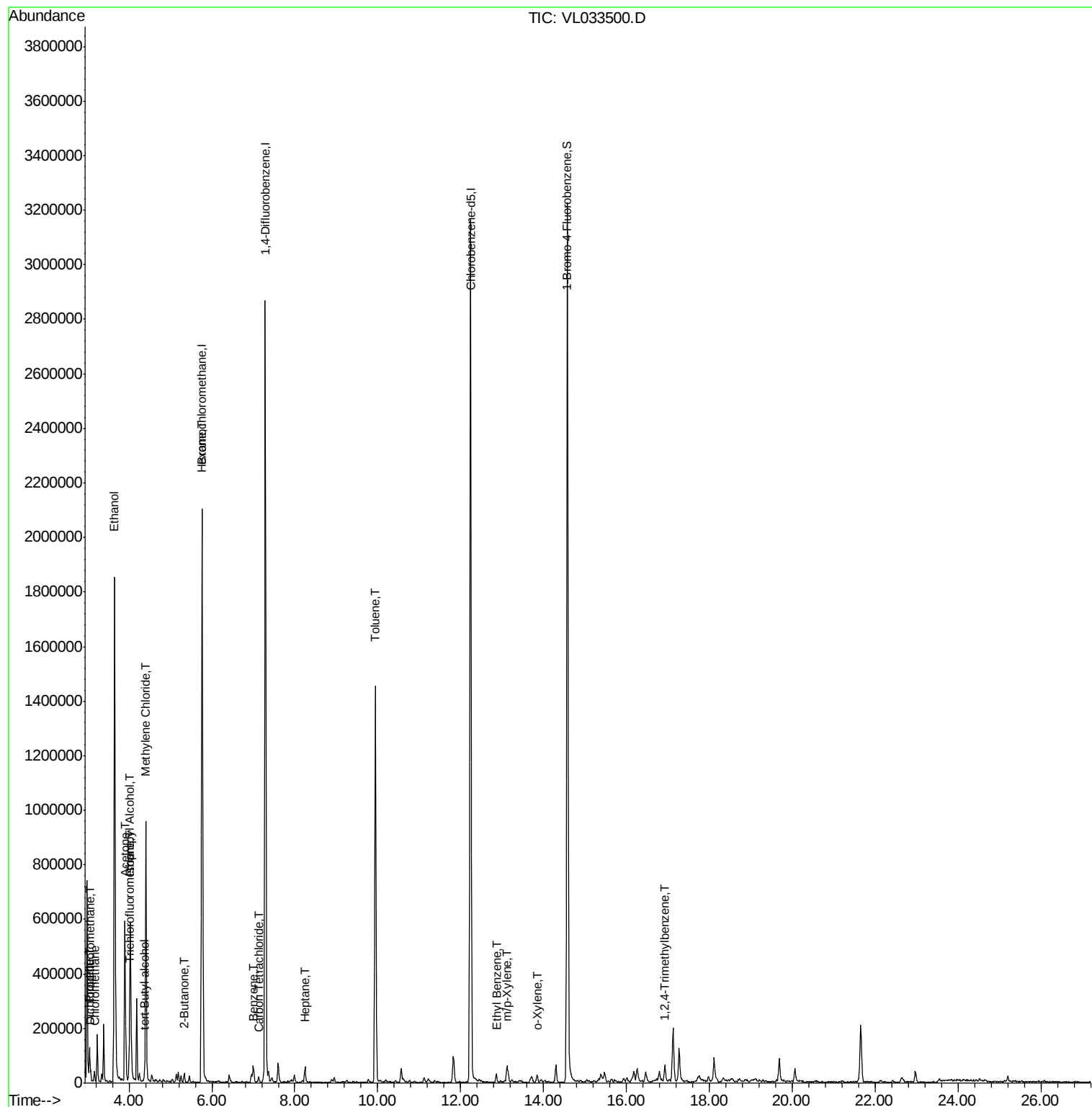
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032919\
Data File : VL033500.D
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Quant Time: Mar 30 01:56:15 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033500.D

Acq: 29 Mar 2019 13:36

Instrument :

MSVOA_L

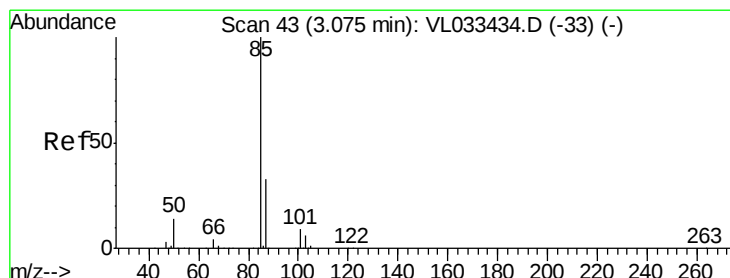
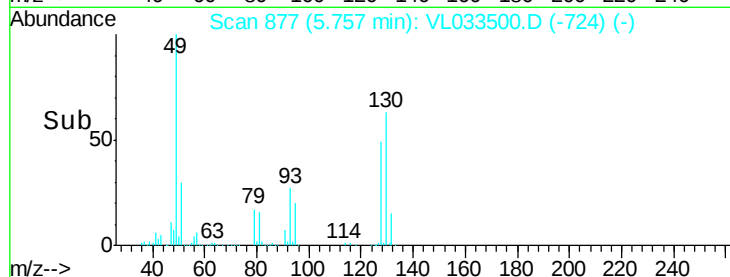
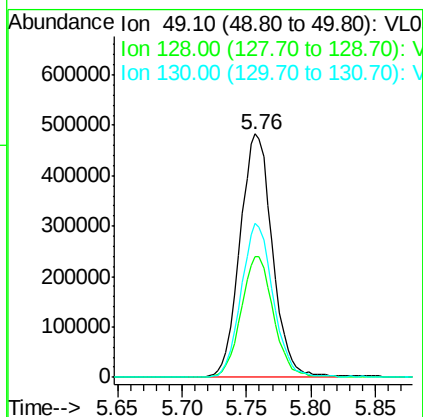
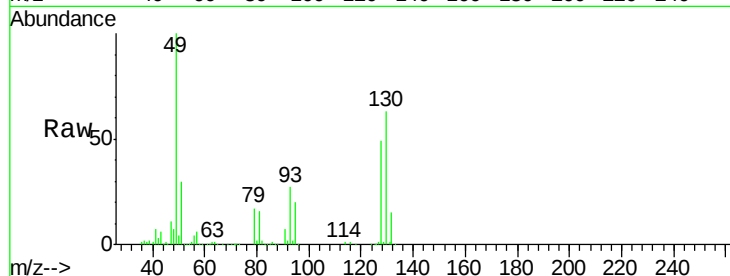
ClientSampleId :

IAS-4-STORAGE-RM-BY-THE-CAFE

Tot Ion:	49	Resp:	843850
Ion	Ratio	Lower	Upper
49	100		
128	49.7	24.0	72.0
130	62.8	31.2	93.6

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#2

Dichlorodifluoromethane

Concen: 0.222 ppbv

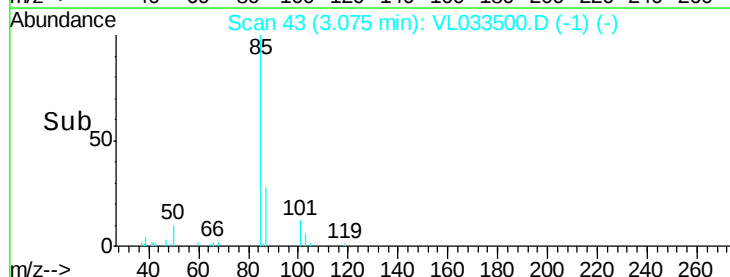
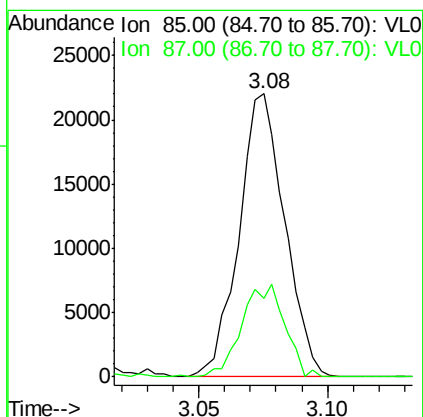
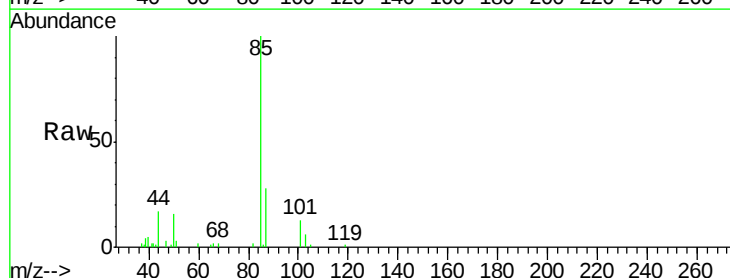
RT: 3.08 min Scan# 43

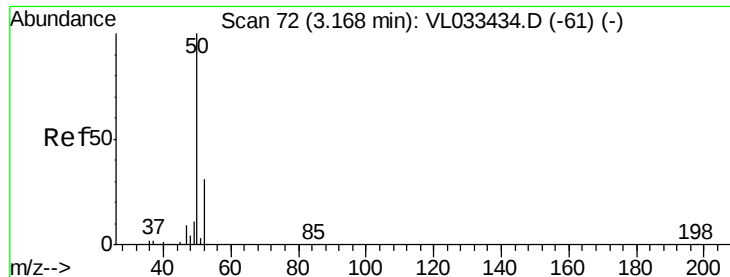
Delta R.T. -0.00 min

Lab File: VL033500.D

Acq: 29 Mar 2019 13:36

Tgt Ion:	85	Resp:	27336
Ion	Ratio	Lower	Upper
85	100		
87	27.8	26.7	40.1





#4

Chloromethane

Concen: 0.568 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033500.D

Acq: 29 Mar 2019 13:36

Instrument :

MSVOA_L

ClientSampleId :

IAS-4-STORAGE-RM-BY-THE-CAFE

Tot Ion: 50 Resp: 29185

Ion Ratio Lower Upper

50 100

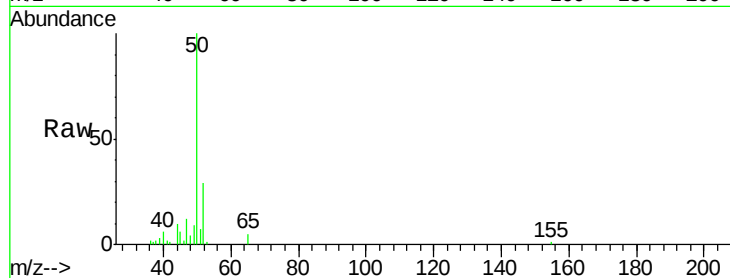
52 30.6 25.0 37.6

Manual Integrations

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Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.17

25000

20000

15000

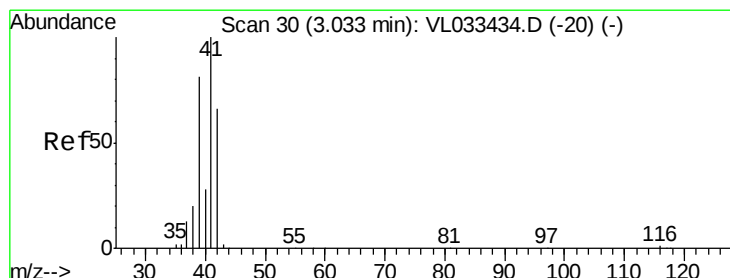
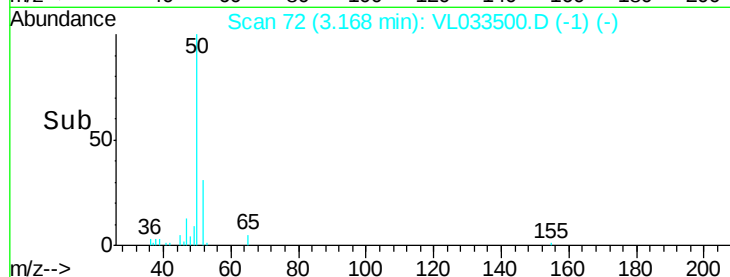
10000

5000

0

3.15 3.20

Time-->



#9

Propene

Concen: 0.668 ppbv m

RT: 3.05 min Scan# 35

Delta R.T. 0.02 min

Lab File: VL033500.D

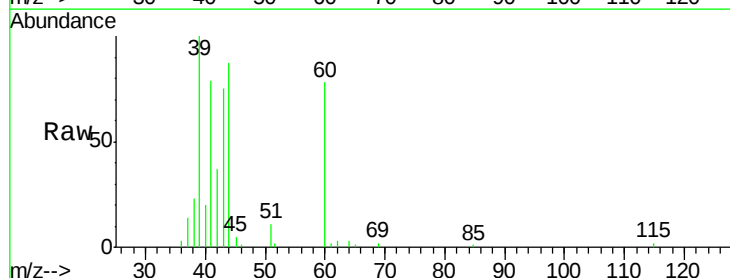
Acq: 29 Mar 2019 13:36

Tgt Ion: 41 Resp: 27269

Ion Ratio Lower Upper

41 100

42 0.0 53.9 80.9#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.05

20000

15000

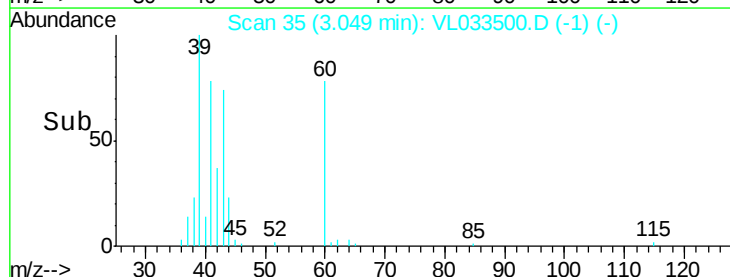
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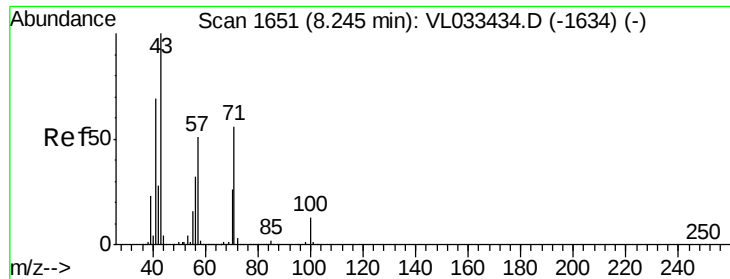
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0

3.00 3.05 3.10

Time-->





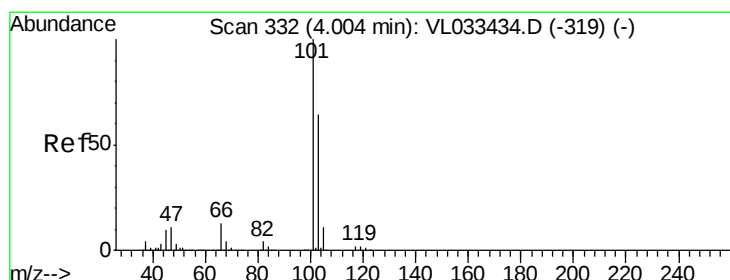
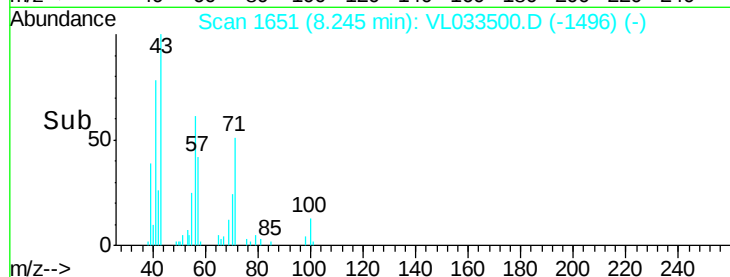
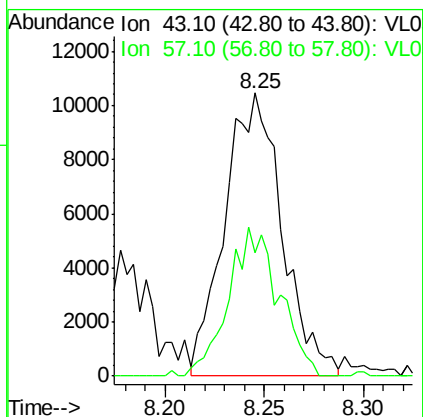
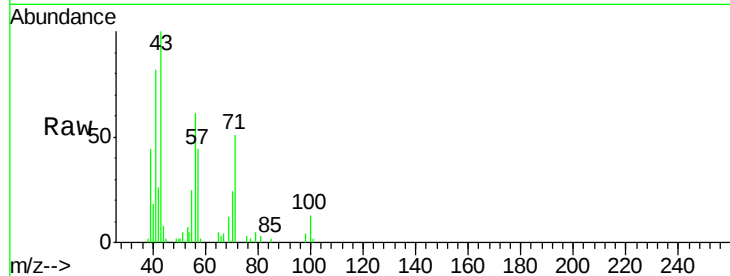
#10
Heptane
Concen: 0.192 ppbv m
RT: 8.25 min Scan# 1651
Delta R.T. -0.00 min
Lab File: VL033500.D
Acq: 29 Mar 2019 13:36

Instrument :
MSVOA_L
ClientSampleId :
IAS-4-STORAGE-RM-BY-THE-CAFE

Tot Ion: 43 Resp: 20984
Ion Ratio Lower Upper
43 100
57 0.0 40.6 60.8#

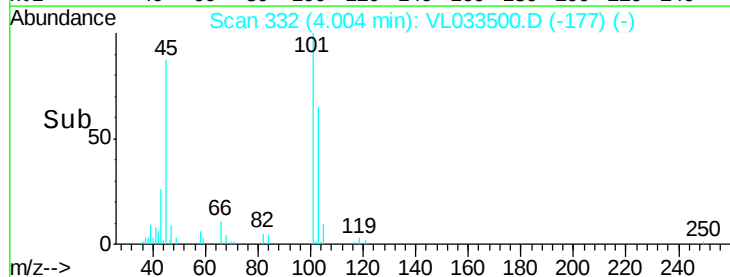
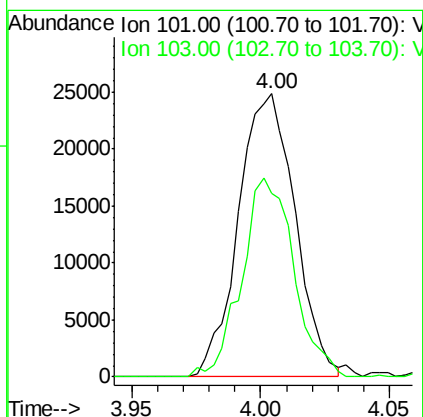
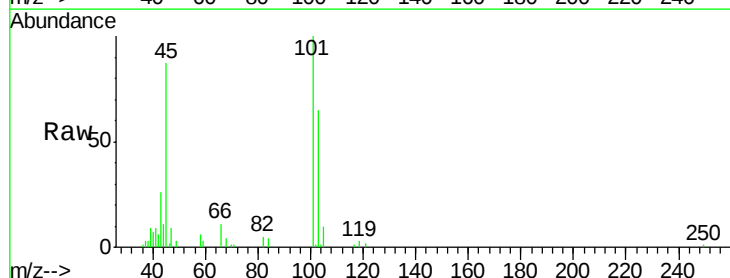
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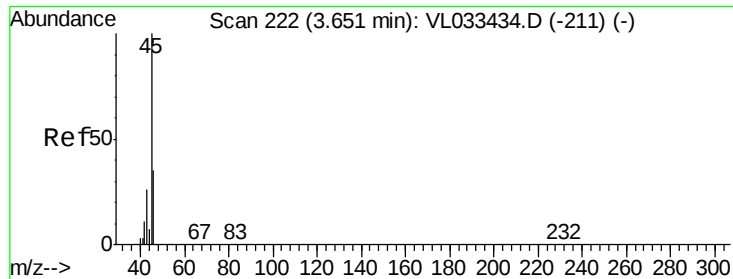
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#11
Trichlorofluoromethane
Concen: 0.251 ppbv
RT: 4.00 min Scan# 332
Delta R.T. -0.00 min
Lab File: VL033500.D
Acq: 29 Mar 2019 13:36

Tgt Ion: 101 Resp: 38142
Ion Ratio Lower Upper
101 100
103 64.7 51.3 76.9





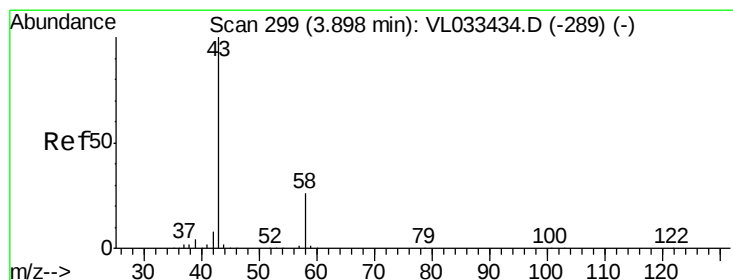
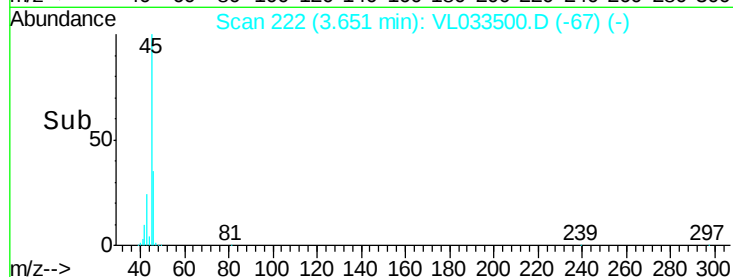
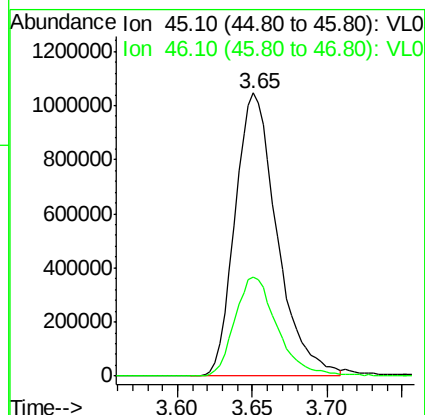
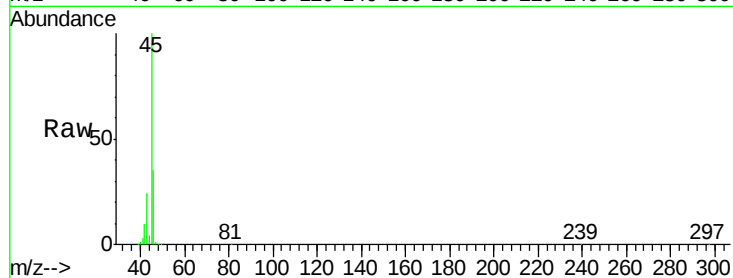
#13
Ethanol
Concen: 193.650 ppbv
RT: 3.65 min Scan# 222
Delta R.T. -0.00 min
Lab File: VL033500.D
Acq: 29 Mar 2019 13:36

Instrument :
MSVOA_L
ClientSampleId :
IAS-4-STORAGE-RM-BY-THE-CAFE

Tot Ion: 45 Resp: 2044451
Ion Ratio Lower Upper
45 100
46 36.0 25.4 101.8

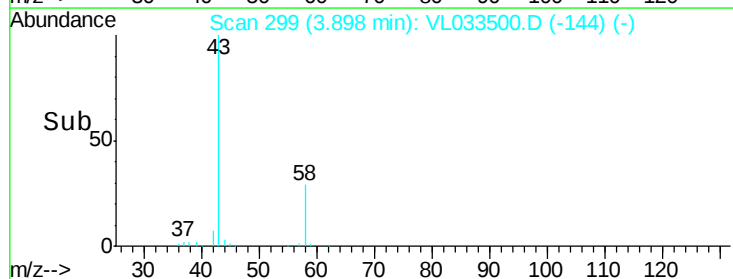
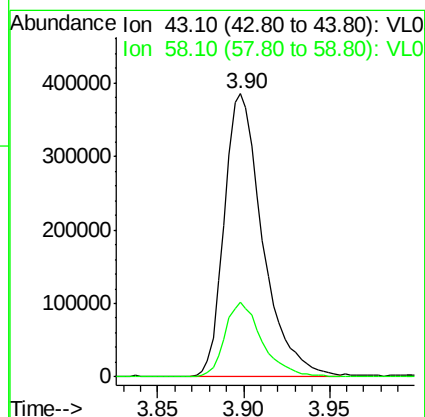
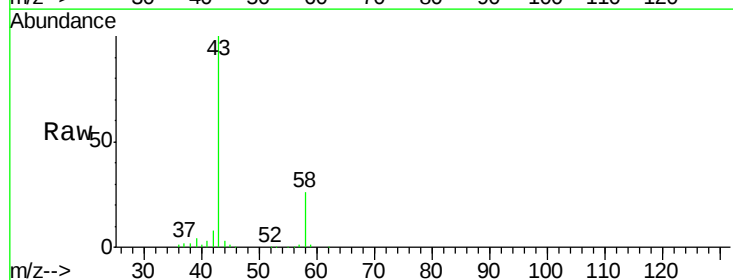
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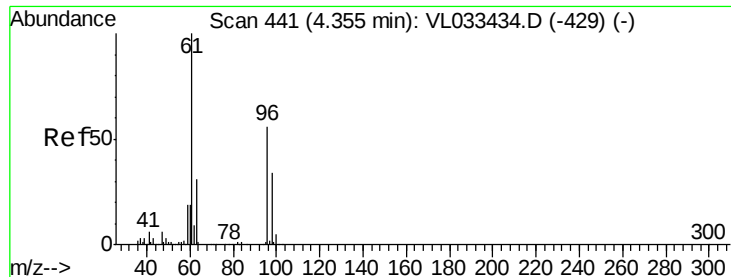
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#15
Acetone
Concen: 5.895 ppbv
RT: 3.90 min Scan# 299
Delta R.T. -0.00 min
Lab File: VL033500.D
Acq: 29 Mar 2019 13:36

Tgt Ion: 43 Resp: 598117
Ion Ratio Lower Upper
43 100
58 25.6 20.5 30.7





#17

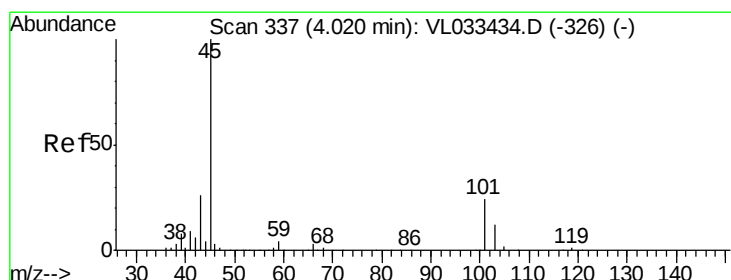
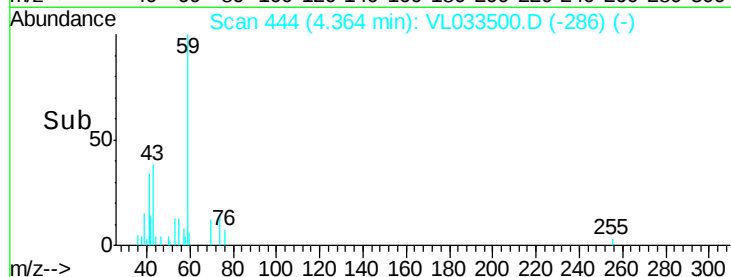
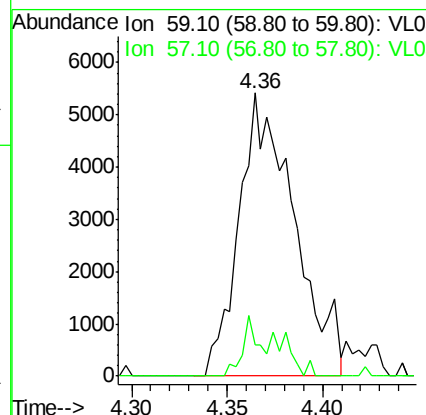
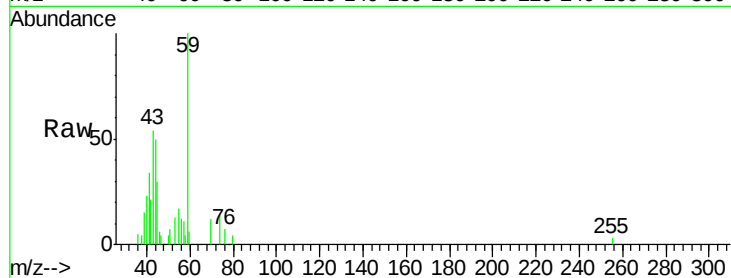
tert-Butyl alcohol
Concen: 0.582 ppbv
RT: 4.36 min Scan# 444
Delta R.T. 0.01 min
Lab File: VL033500.D
Acq: 29 Mar 2019 13:36

Instrument :
MSVOA_L
ClientSampleId :
IAS-4-STORAGE-RM-BY-THE-CAFE

Tot Ion: 59 Resp: 10857
Ion Ratio Lower Upper
59 100
57 12.0 7.8 11.8#

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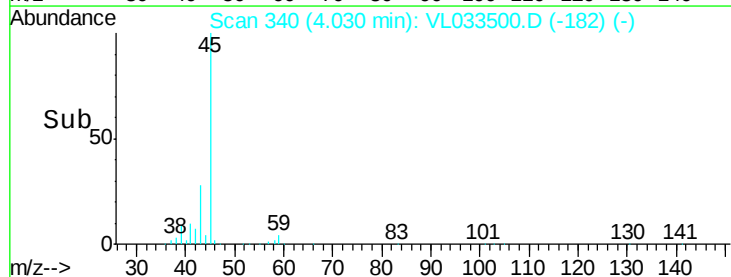
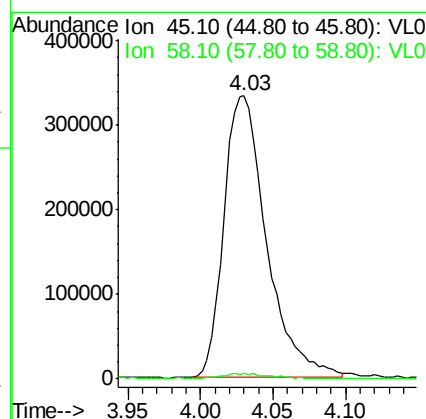
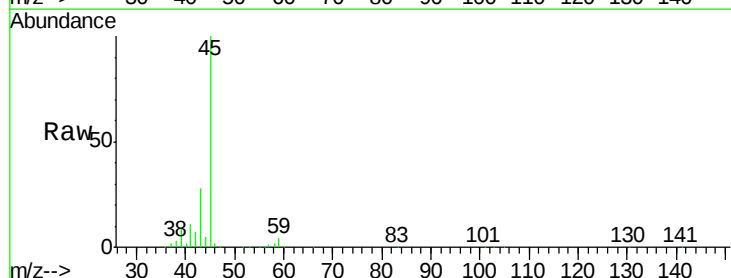
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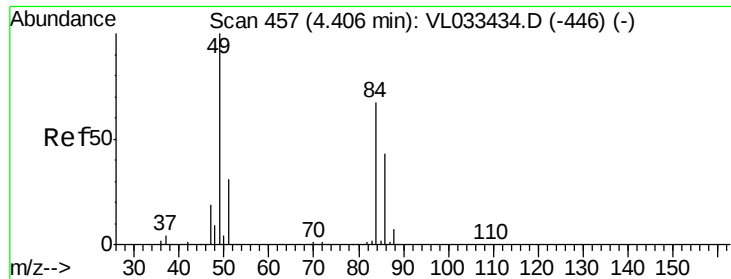


#19

Isopropyl Alcohol
Concen: 10.584 ppbv
RT: 4.03 min Scan# 340
Delta R.T. 0.01 min
Lab File: VL033500.D
Acq: 29 Mar 2019 13:36

Tgt Ion: 45 Resp: 679247
Ion Ratio Lower Upper
45 100
58 2.6 1.4 2.2#





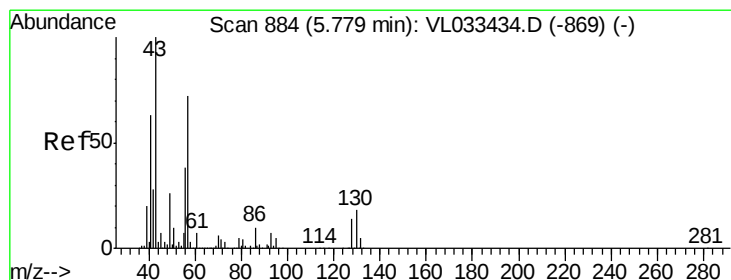
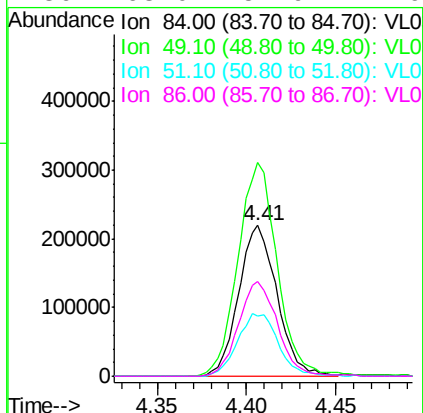
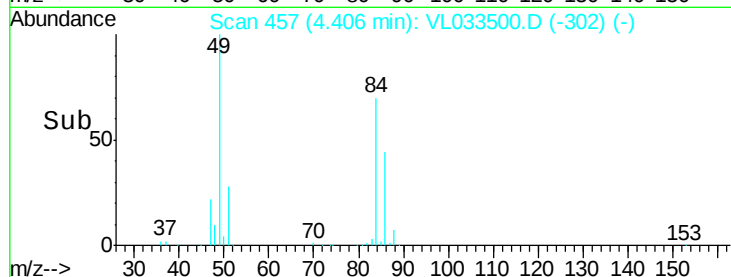
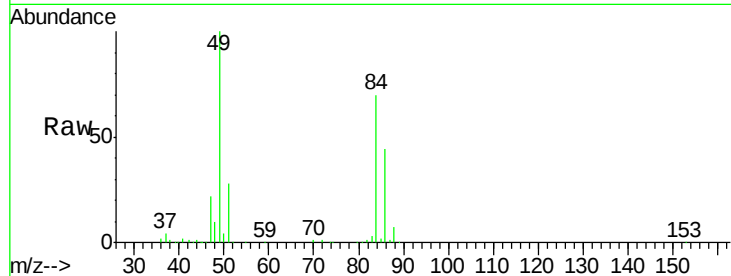
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Methvlene Chloride
Concen: 7.638 ppbv
RT: 4.41 min Scan# 457
Delta R.T. -0.00 min
Lab File: VL033500.D
Acq: 29 Mar 2019 13:36

Instrument :
MSVOA_L
ClientSampleId :
IAS-4-STORAGE-RM-BY-THE-CAFE

Tot Ion	Ion	Ratio	Resp	Lower	Upper
84	100				
49	141.8		120.0	180.0	
51	40.2		36.7	55.1	
86	63.0		51.9	77.9	

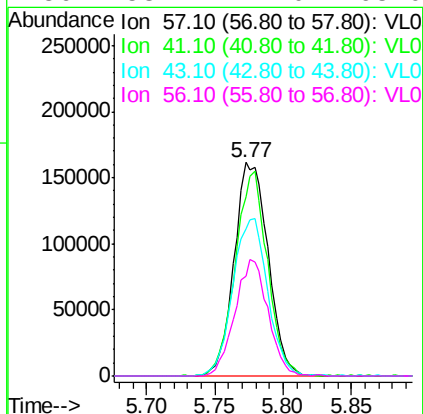
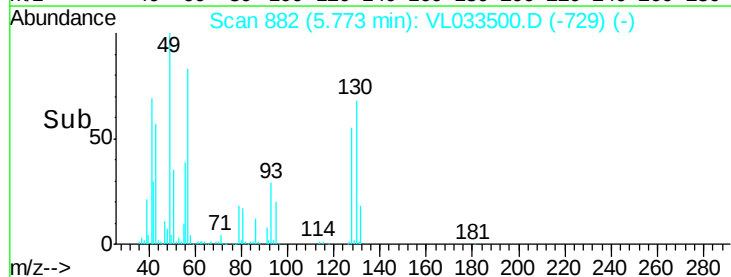
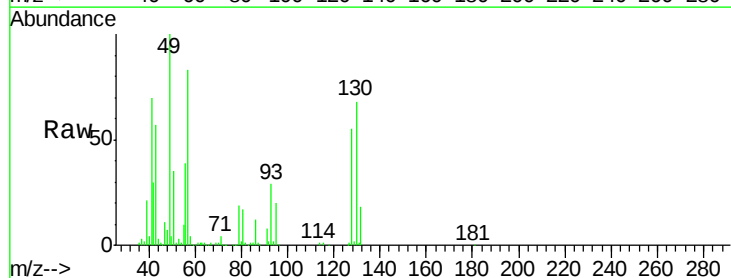
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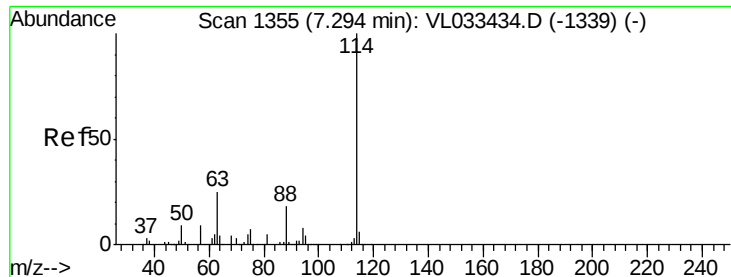
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#26
Hexane
Concen: 3.339 ppbv
RT: 5.77 min Scan# 882
Delta R.T. -0.01 min
Lab File: VL033500.D
Acq: 29 Mar 2019 13:36

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	91.2		70.7	106.1	
43	76.0		182.6	274.0#	
56	53.2		42.0	63.0	





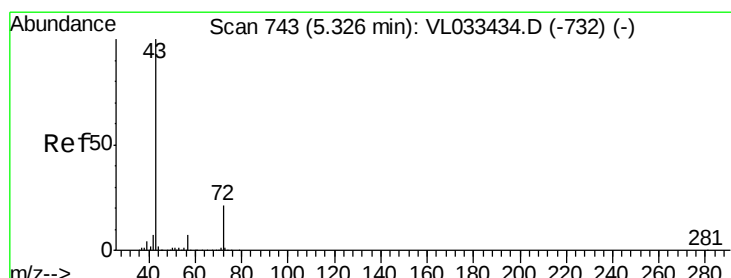
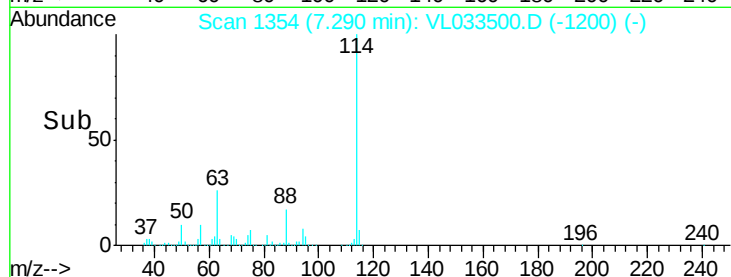
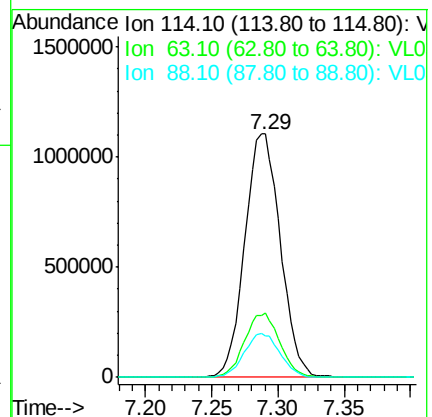
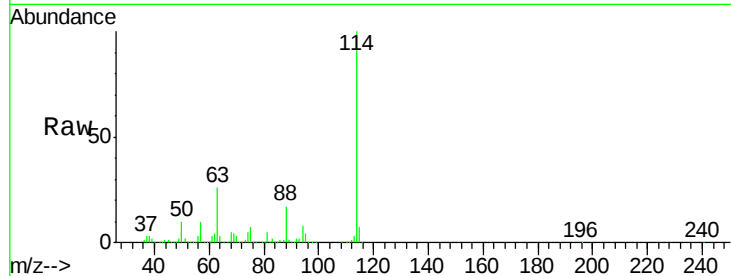
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.00 min
 Lab File: VL033500.D
 Acq: 29 Mar 2019 13:36

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-4-STORAGE-RM-BY-THE-CAFE

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.1	21.5	32.3
88	18.0	14.5	21.7

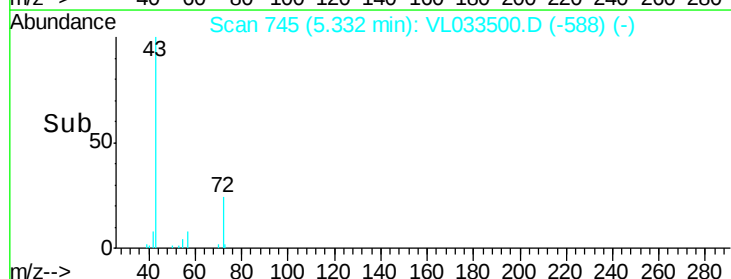
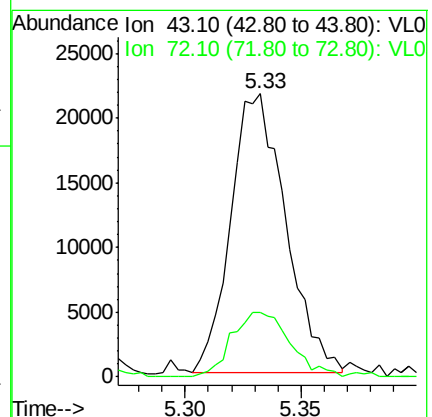
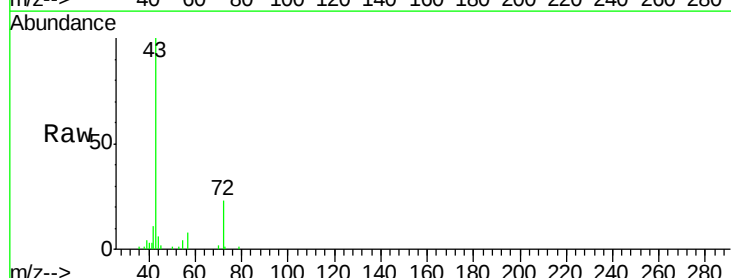
Manual Integrations
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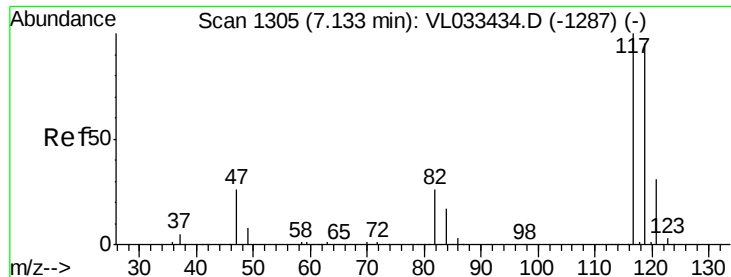
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#34
 2-Butanone
 Concen: 0.288 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. 0.01 min
 Lab File: VL033500.D
 Acq: 29 Mar 2019 13:36

Tgt Ion	Ratio	Lower	Upper
43	100		
72	25.0	17.4	26.2





#35

Carbon Tetrachloride

Concen: 0.070 ppbv m

RT: 7.13 min Scan# 1303

Delta R.T. -0.01 min

Lab File: VL033500.D

Acq: 29 Mar 2019 13:36

Instrument :

MSVOA_L

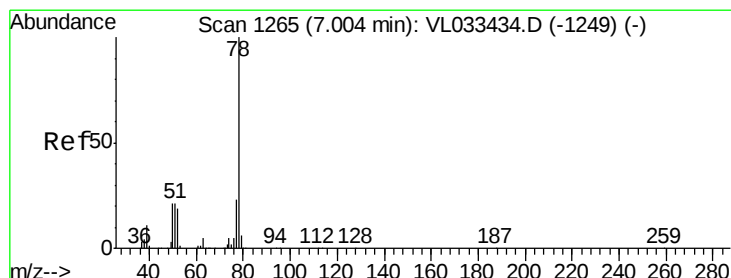
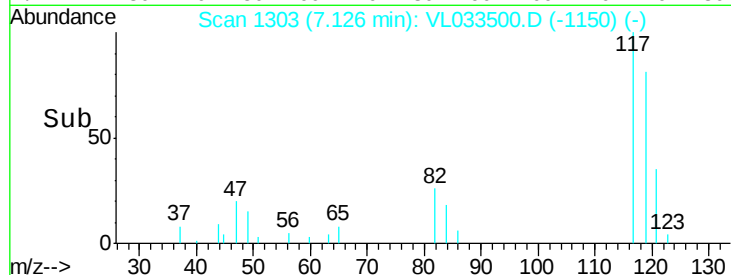
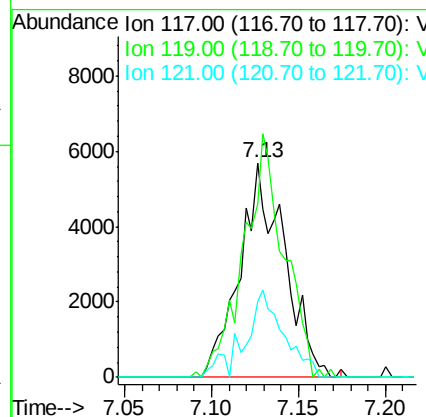
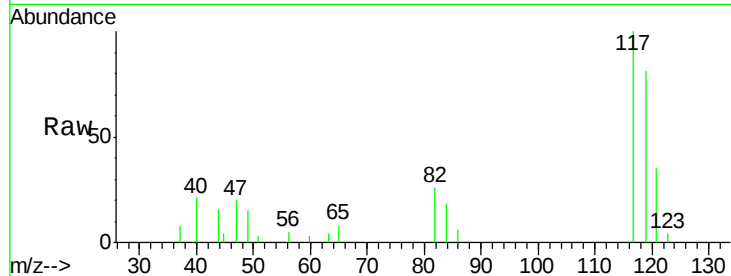
ClientSampleId :

IAS-4-STORAGE-RM-BY-THE-CAFE

Tot Ion:	117	Resp:	10229
Ion	Ratio	Lower	Upper
117	100		
119	80.8	75.8	113.8
121	35.4	24.7	37.1

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#36

Benzene

Concen: 0.248 ppbv

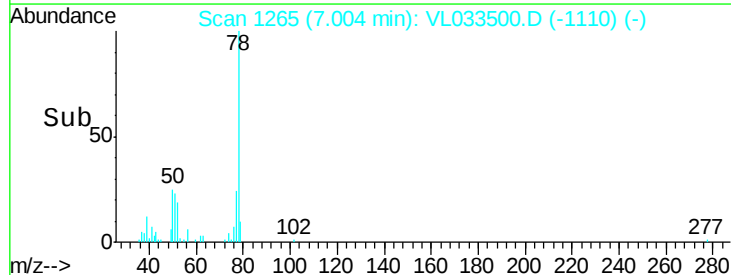
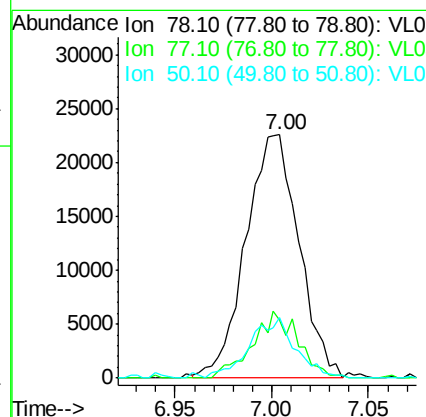
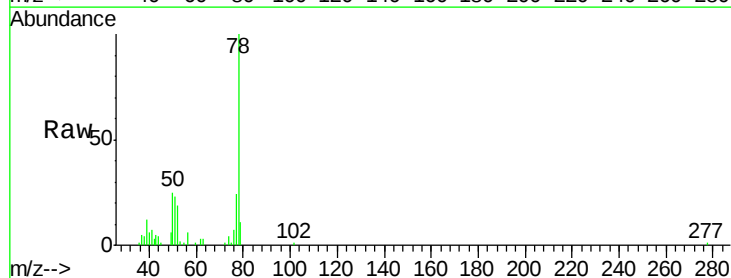
RT: 7.00 min Scan# 1265

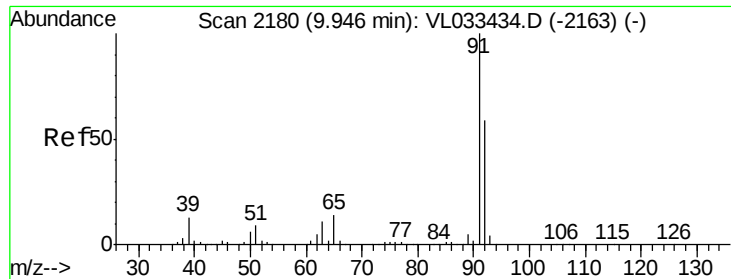
Delta R.T. -0.00 min

Lab File: VL033500.D

Acq: 29 Mar 2019 13:36

Tgt Ion:	78	Resp:	43008
Ion	Ratio	Lower	Upper
78	100		
77	24.1	18.1	27.1
50	22.3	16.7	25.1





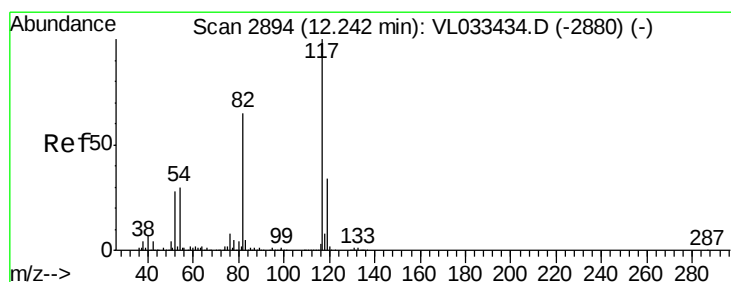
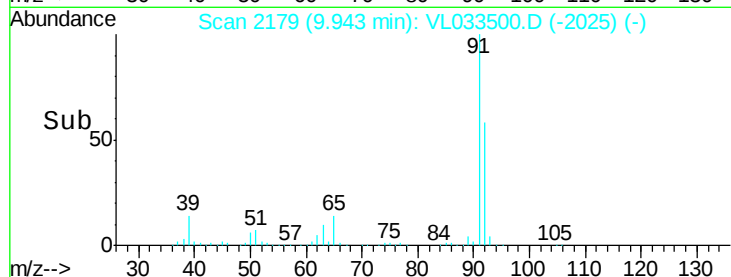
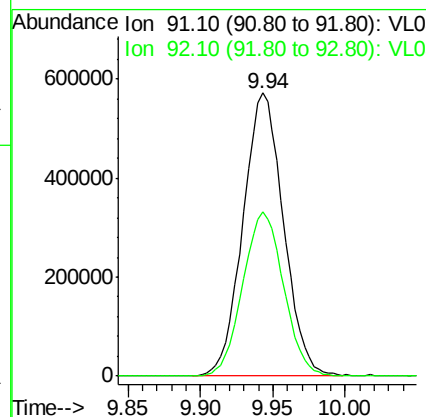
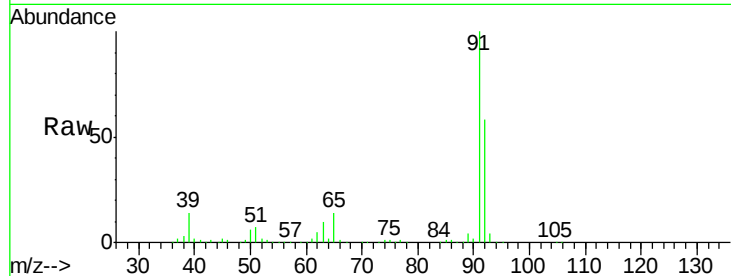
#53
Toluene
Concen: 5.516 ppbv
RT: 9.94 min Scan# 2179
Delta R.T. -0.00 min
Lab File: VL033500.D
Acq: 29 Mar 2019 13:36

Instrument :
MSVOA_L
ClientSampleId :
IAS-4-STORAGE-RM-BY-THE-CAFE

Tot Ion: 91 Resp: 1109992
Ion Ratio Lower Upper
91 100
92 58.9 47.4 71.0

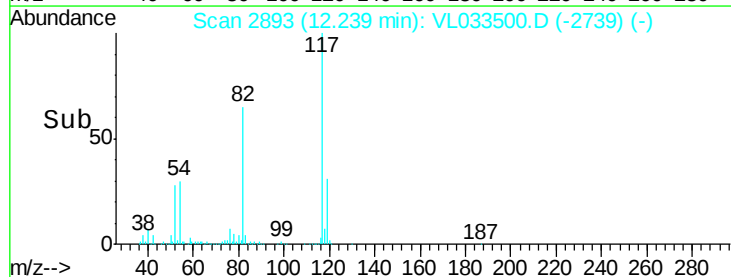
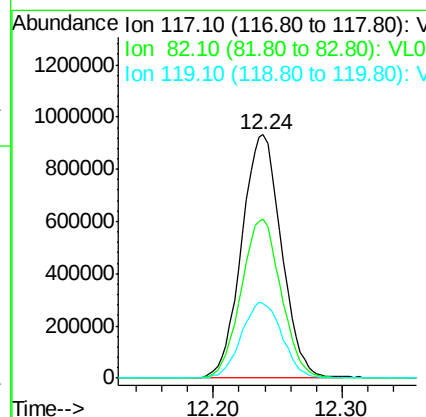
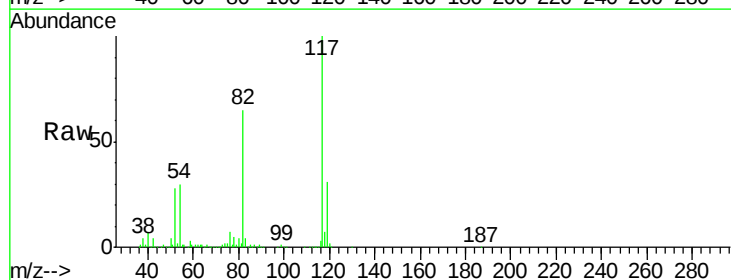
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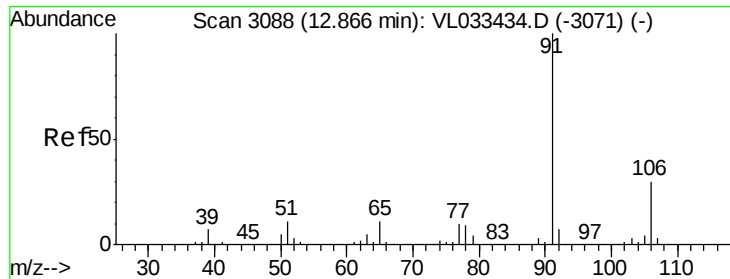
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#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.00 min
Lab File: VL033500.D
Acq: 29 Mar 2019 13:36

Tgt Ion: 117 Resp: 1998577
Ion Ratio Lower Upper
117 100
82 65.9 51.5 77.3
119 32.2 25.5 38.3





#58

Ethyl Benzene

Concen: 0.086 ppbv

RT: 12.86 min Scan# 3087

Delta R.T. -0.00 min

Lab File: VL033500.D

Acq: 29 Mar 2019 13:36

Instrument :

MSVOA_L

ClientSampleId :

IAS-4-STORAGE-RM-BY-THE-CAFE

Tot Ion: 91 Resp: 22971

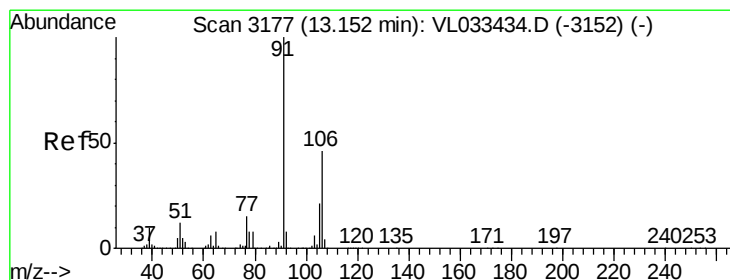
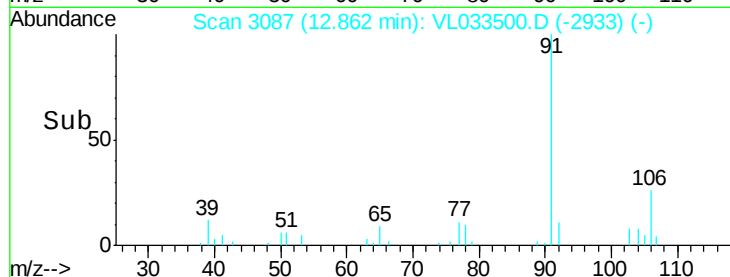
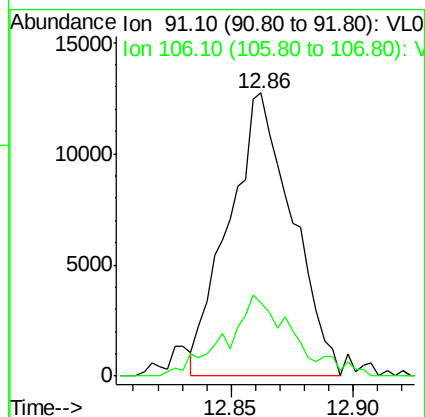
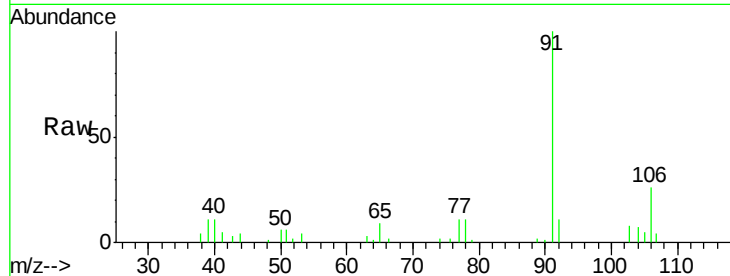
Ion Ratio Lower Upper

91 100

106 28.3 23.8 35.6

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#59

m/p-Xylene

Concen: 0.266 ppbv m

RT: 13.12 min Scan# 3167

Delta R.T. -0.03 min

Lab File: VL033500.D

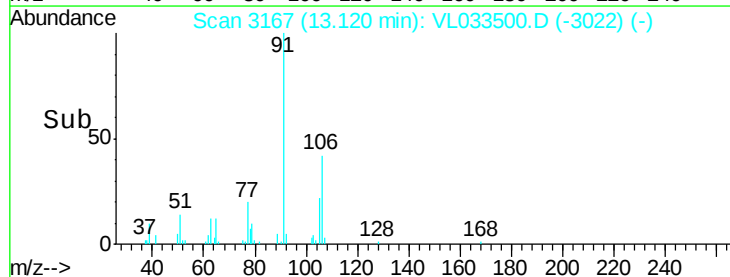
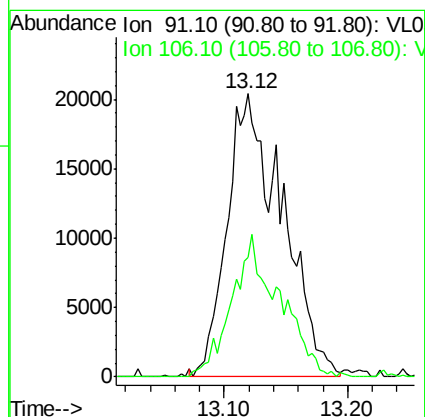
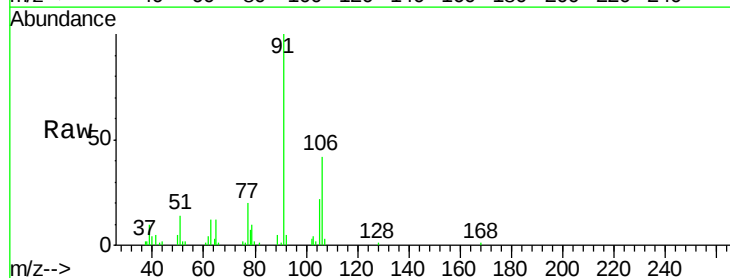
Acq: 29 Mar 2019 13:36

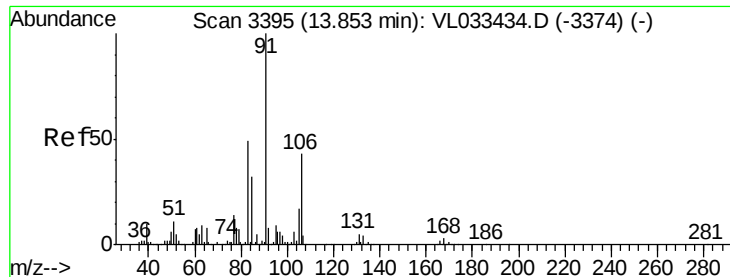
Tgt Ion: 91 Resp: 63399

Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0





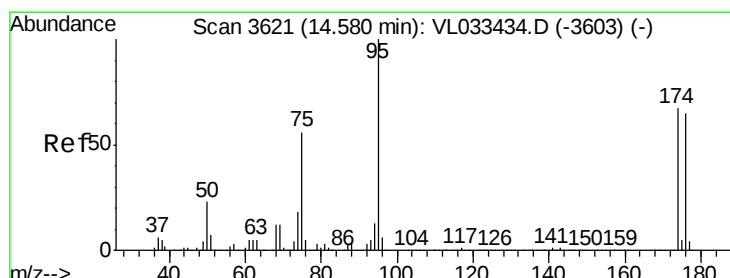
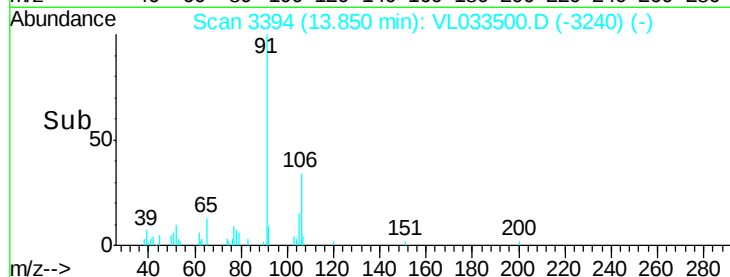
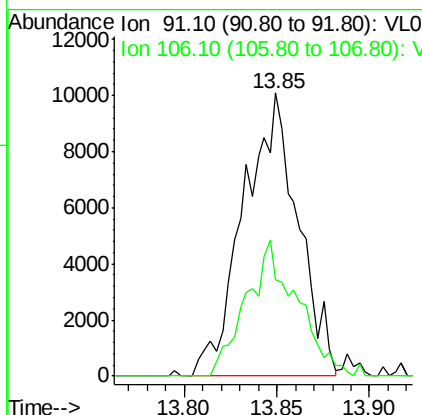
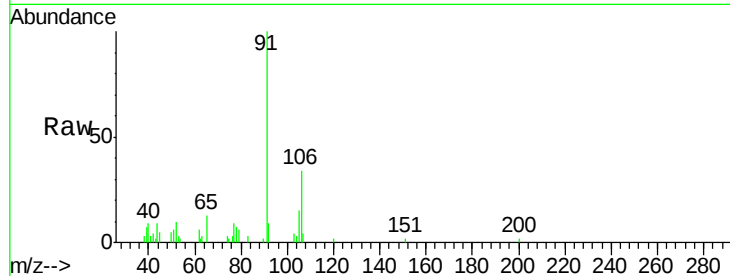
#60
o-Xylene
Concen: 0.090 ppbv m
RT: 13.85 min Scan# 3394
Delta R.T. -0.00 min
Lab File: VL033500.D
Acq: 29 Mar 2019 13:36

Instrument :
MSVOA_L
ClientSampleId :
IAS-4-STORAGE-RM-BY-THE-CAFE

Tot Ion: 91 Resp: 20723
Ion Ratio Lower Upper
91 100
106 44.8 21.4 64.3

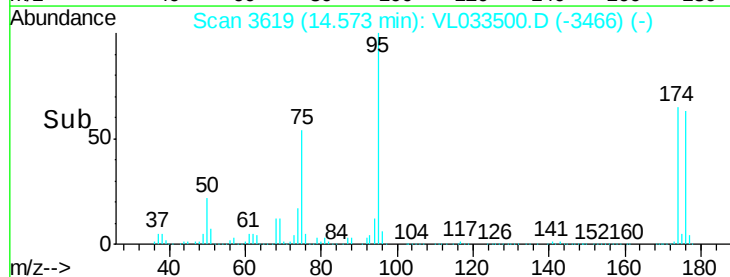
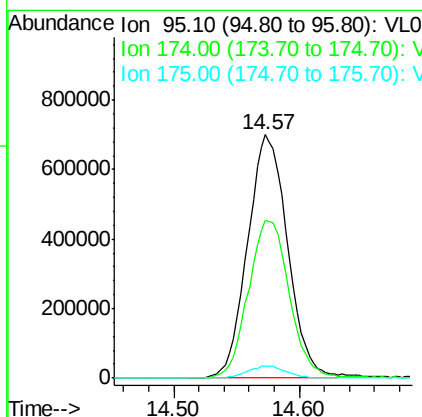
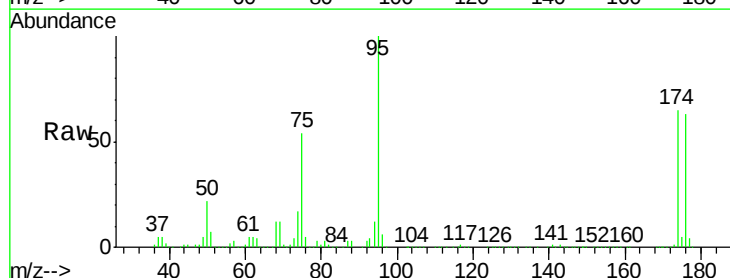
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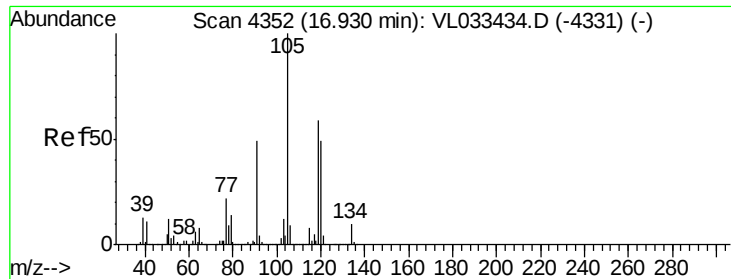
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.914 ppbv
RT: 14.57 min Scan# 3619
Delta R.T. -0.01 min
Lab File: VL033500.D
Acq: 29 Mar 2019 13:36

Tgt Ion: 95 Resp: 1553351
Ion Ratio Lower Upper
95 100
174 67.3 52.9 79.3
175 4.8 3.8 5.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.132 ppbv m
 RT: 16.93 min Scan# 4351
 Delta R.T. -0.00 min
 Lab File: VL033500.D
 Acq: 29 Mar 2019 13:36

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-4-STORAGE-RM-BY-THE-CAFE

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	41.3	39.0	58.6
91	14.0	40.0	60.0#
77	11.7	17.5	26.3#

Manual Integrations
 APPROVED

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 4/1/2019 4:03:47 AM

