

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032919\
 Data File : VL033502.D
 Acq On : 29 Mar 2019 14:55
 Operator : SY/AP
 Sample : K2042-17
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-3-IN-CAFE

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 4:03:10 AM

Quant Time: Mar 31 14:54:12 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	848921	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1994697	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1941418	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1530426	10.06	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	24485	0.198	ppbv	100
3) Chlorodifluoromethane	3.01	51	25351m	0.259	ppbv	
4) Chloromethane	3.17	50	27683	0.535	ppbv #	85
9) Propene	3.04	41	35537m	0.866	ppbv	
11) Trichlorofluoromethane	4.00	101	34980	0.229	ppbv	96
13) Ethanol	3.65	45	1022529	96.275	ppbv	65
15) Acetone	3.90	43	543682	5.326	ppbv	99
19) Isopropyl Alcohol	4.03	45	111818	1.732	ppbv #	90
20) Methylene Chloride	4.41	84	250906	5.791	ppbv	96
26) Hexane	5.78	57	329379	3.912	ppbv #	42
34) 2-Butanone	5.34	43	30910	0.258	ppbv	99
36) Benzene	7.00	78	36694	0.219	ppbv	97
53) Toluene	9.95	91	827302	4.254	ppbv	99

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

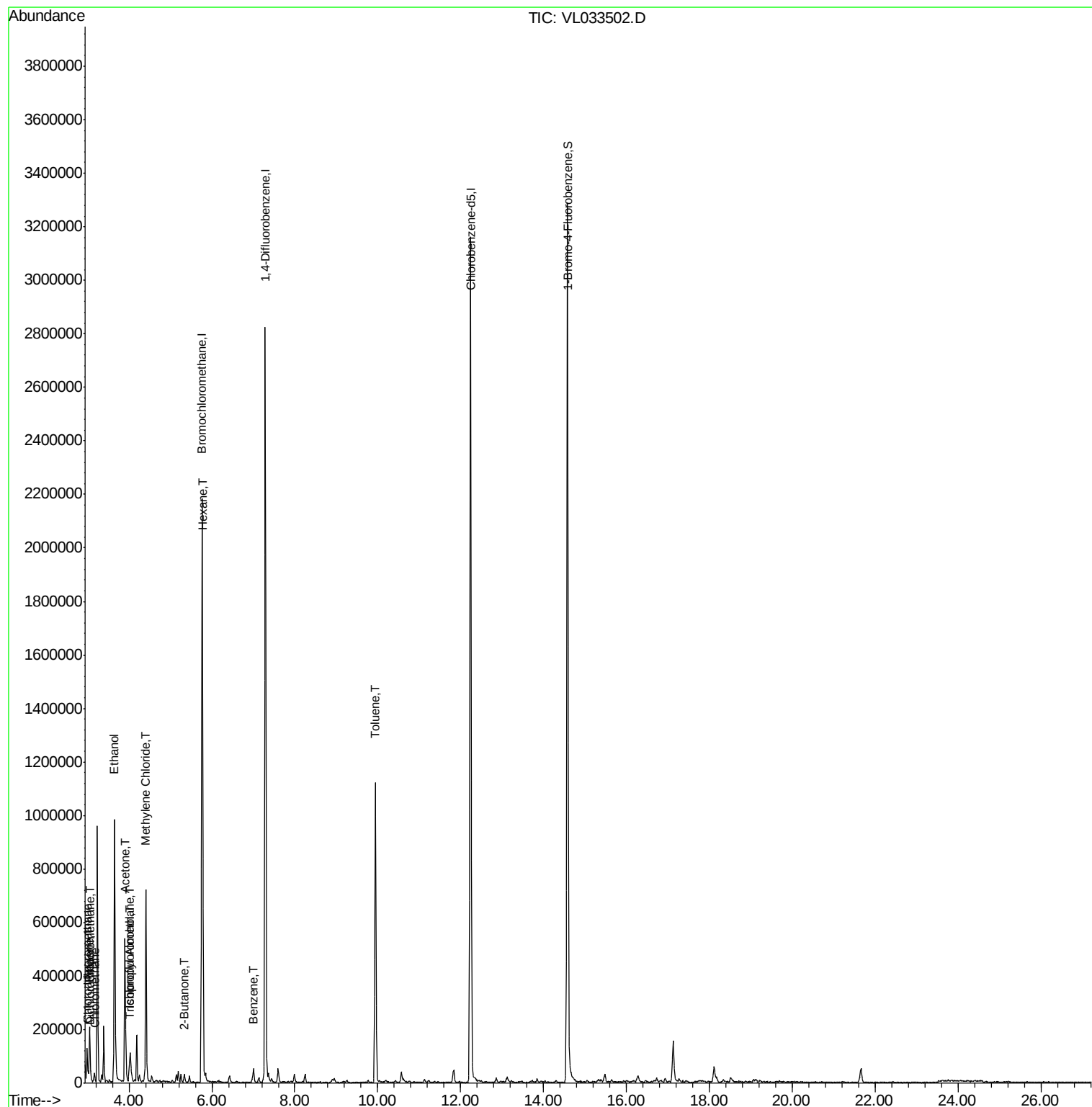
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032919\
Data File : VL033502.D
Acq On : 29 Mar 2019 14:55
Operator : SY/AP
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

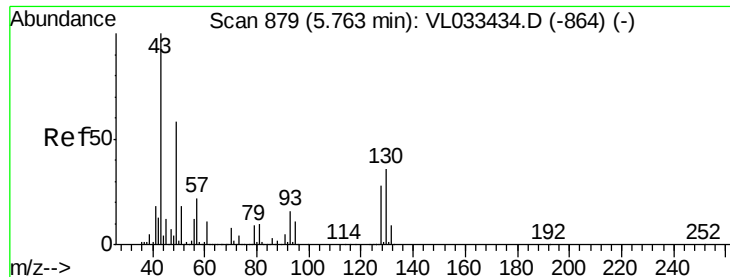
Instrument :
MSVOA_L
ClientSampleId :
IAS-3-IN-CAFE

Manual Integrations
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4/1/2019 4:03:10 AM

Quant Time: Mar 31 14:54:12 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: VL033502.D

Acq: 29 Mar 2019 14:55

Instrument :

MSVOA_L

ClientSampleId :

IAS-3-IN-CAFE

Tot Ion: 49 Resp: 848921

Ion Ratio Lower Upper

49 100

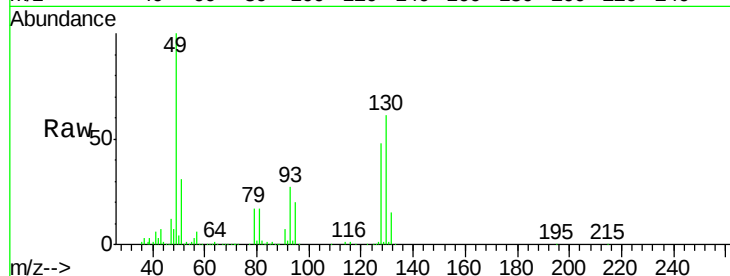
128 49.2 24.0 72.0

130 62.4 31.2 93.6

Manual Integrations
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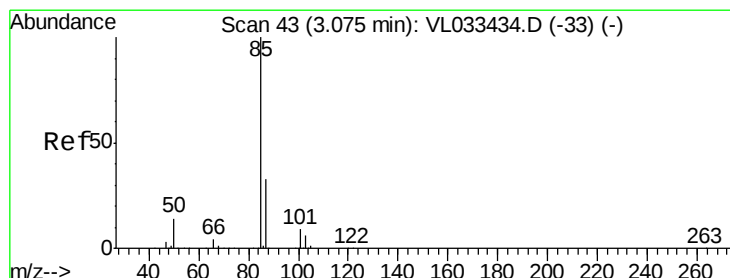
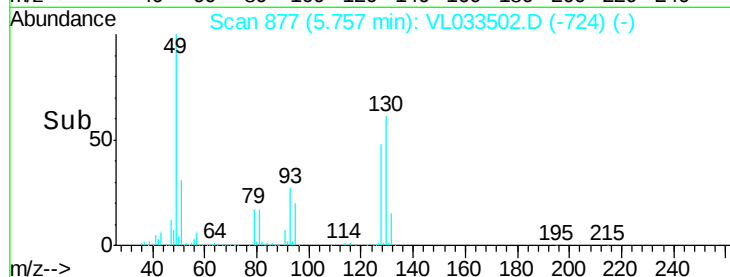
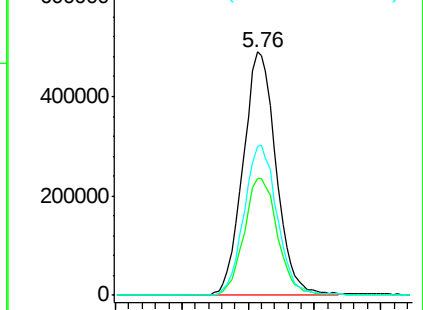
4/1/2019 4:03:10 AM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.198 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033502.D

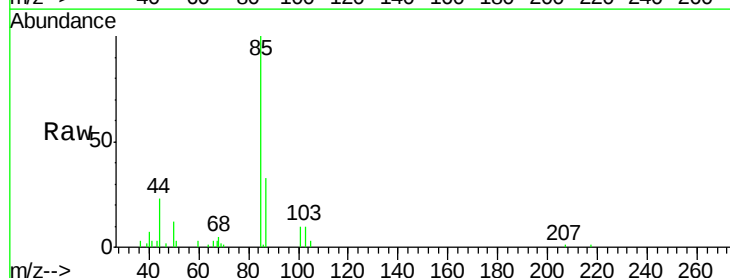
Acq: 29 Mar 2019 14:55

Tgt Ion: 85 Resp: 24485

Ion Ratio Lower Upper

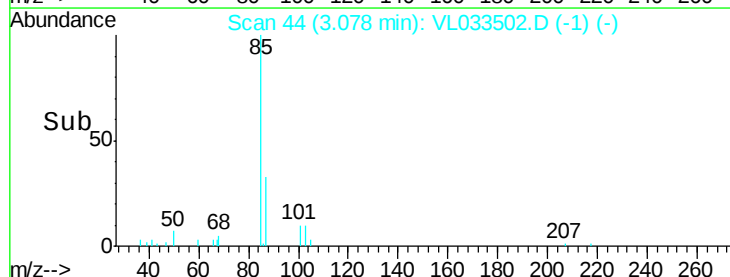
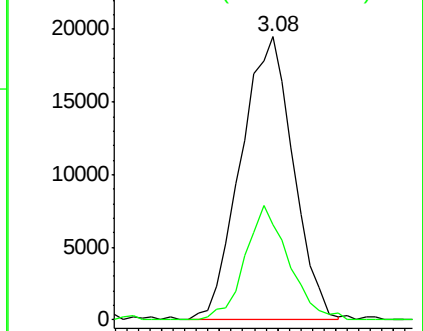
85 100

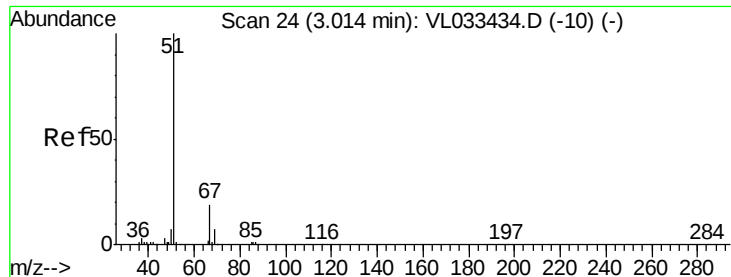
87 33.5 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

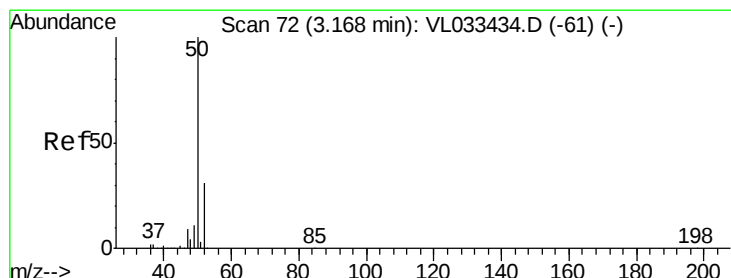
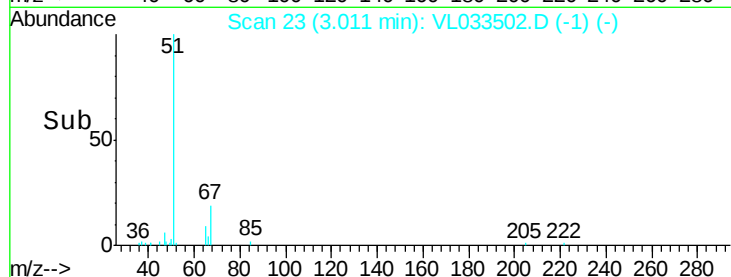
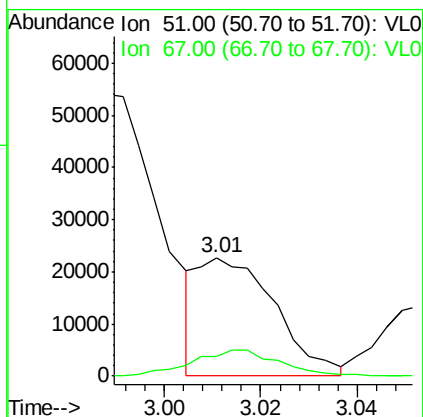
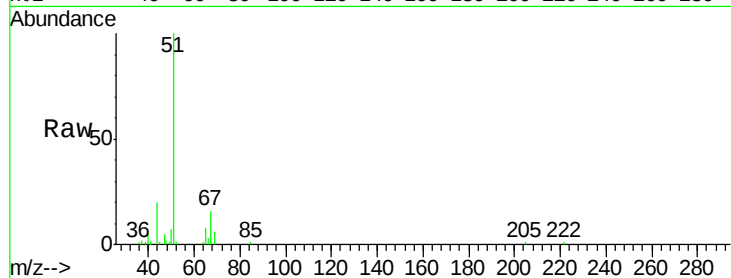
Chlorodifluoromethane
 Concen: 0.259 ppbv
 RT: 3.01 min Scan# 23
 Delta R.T. -0.00 min
 Lab File: VL033502.D
 Acq: 29 Mar 2019 14:55

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-3-IN-CAFE

Tot Ion	Ratio	Lower	Upper
51	100		
67	0.0	15.7	23.5#

Manual Integrations
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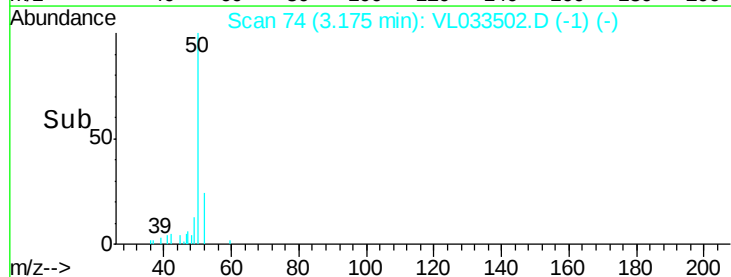
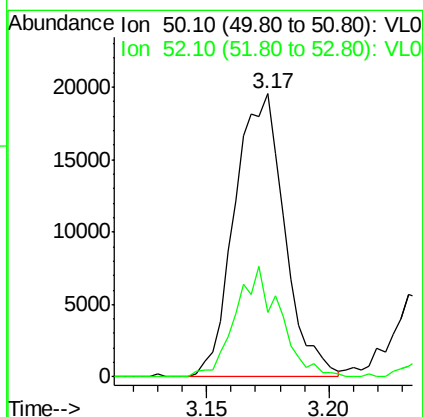
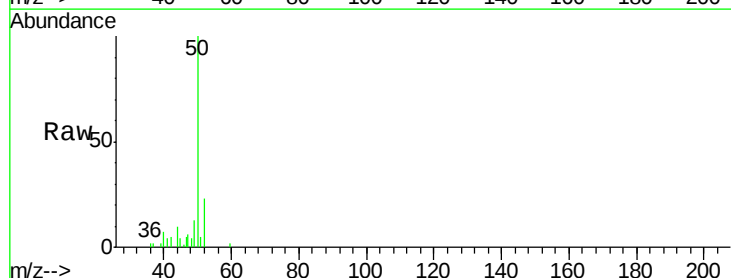
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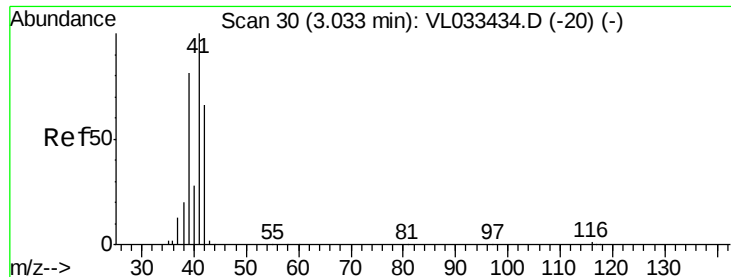


#4

Chloromethane
 Concen: 0.535 ppbv
 RT: 3.17 min Scan# 74
 Delta R.T. 0.01 min
 Lab File: VL033502.D
 Acq: 29 Mar 2019 14:55

Tgt Ion	Ratio	Lower	Upper
50	100		
52	23.1	25.0	37.6#





#9

Propene

Concen: 0.866 ppbv m

RT: 3.04 min Scan# 33

Delta R.T. 0.01 min

Lab File: VL033502.D

Acq: 29 Mar 2019 14:55

Instrument :

MSVOA_L

ClientSampleId :

IAS-3-IN-CAFE

Tot Ion: 41 Resp: 35537

Ion Ratio Lower Upper

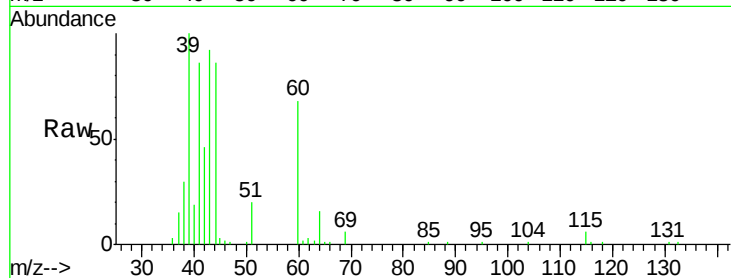
41 100

42 53.5 53.9 80.9#

Manual Integrations
APPROVED

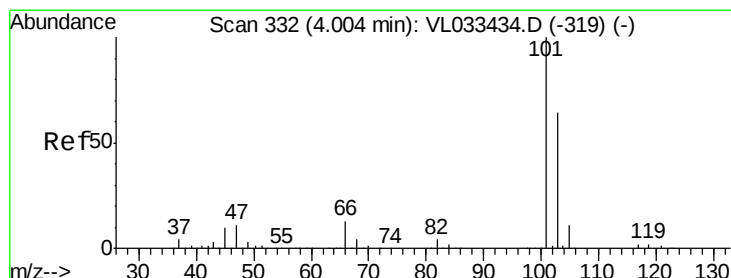
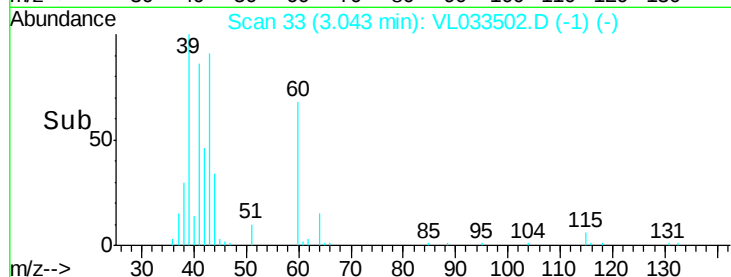
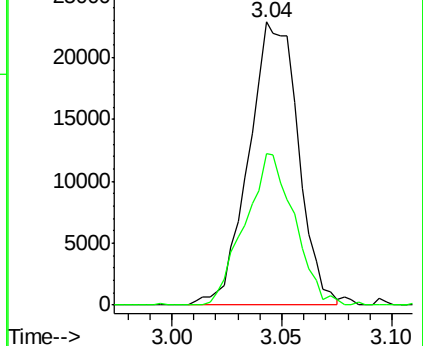
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.229 ppbv

RT: 4.00 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL033502.D

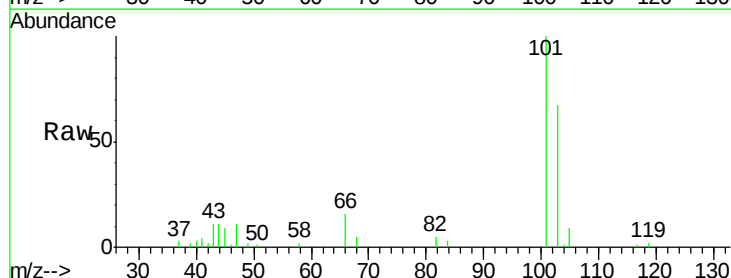
Acq: 29 Mar 2019 14:55

Tgt Ion: 101 Resp: 34980

Ion Ratio Lower Upper

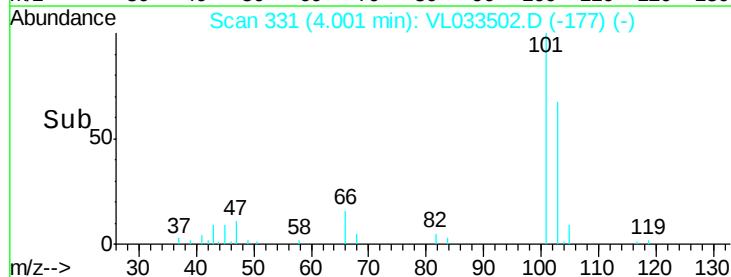
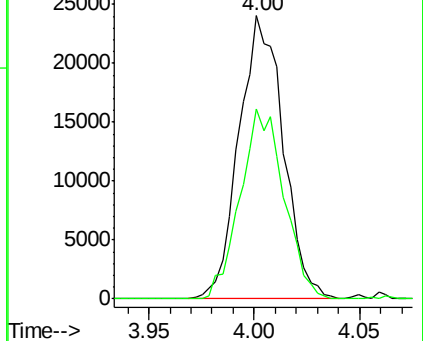
101 100

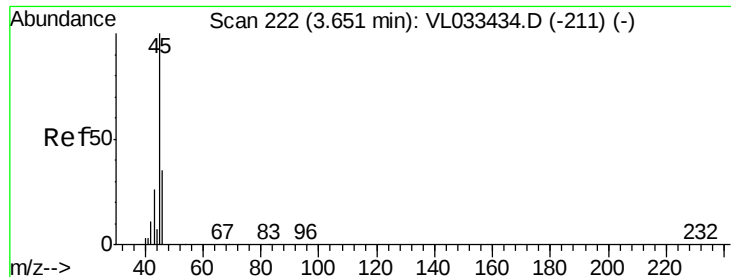
103 67.2 51.3 76.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#13

Ethanol

Concen: 96.275 ppbv

RT: 3.65 min Scan# 221

Delta R.T. -0.00 min

Lab File: VL033502.D

Acq: 29 Mar 2019 14:55

Instrument :

MSVOA_L

ClientSampleId :

IAS-3-IN-CAFE

Tot Ion: 45 Resp: 1022529

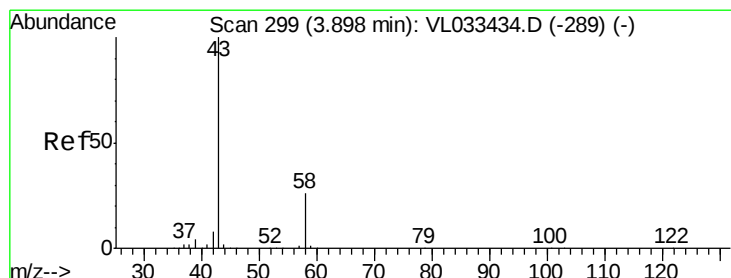
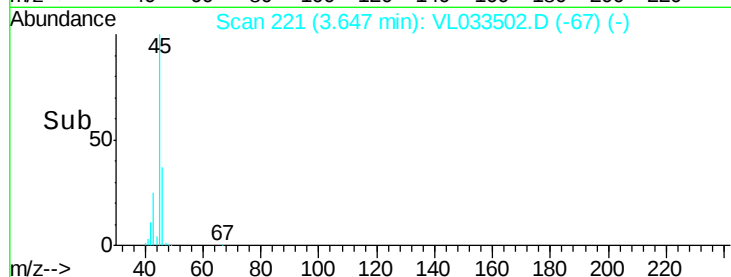
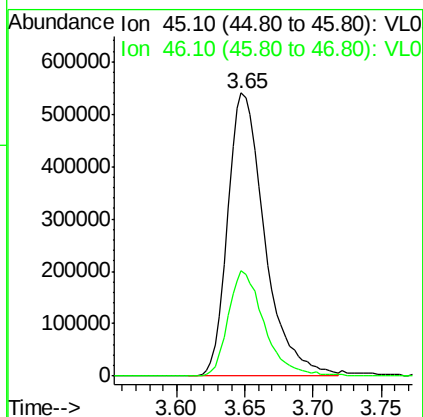
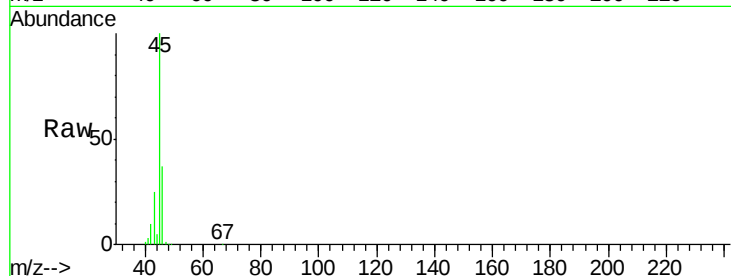
Ion Ratio Lower Upper

45 100

46 36.5 25.4 101.8

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#15

Acetone

Concen: 5.326 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.00 min

Lab File: VL033502.D

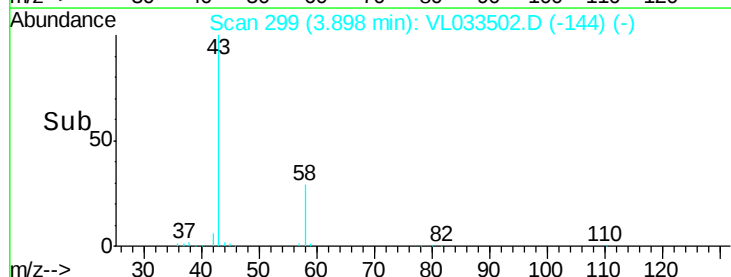
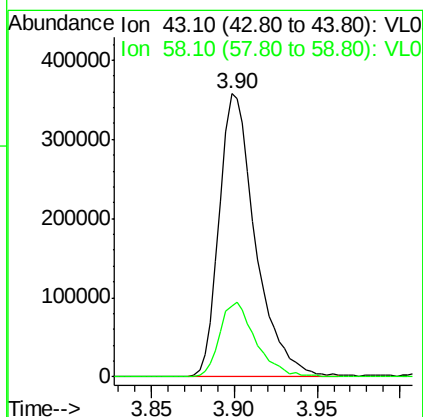
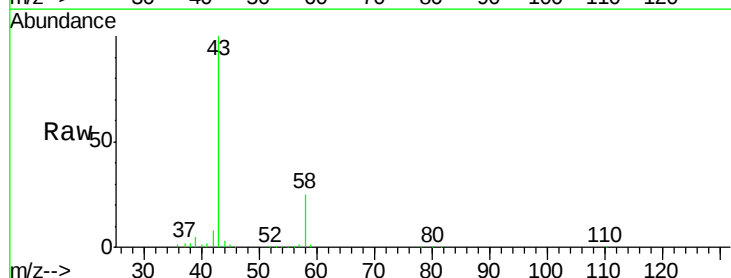
Acq: 29 Mar 2019 14:55

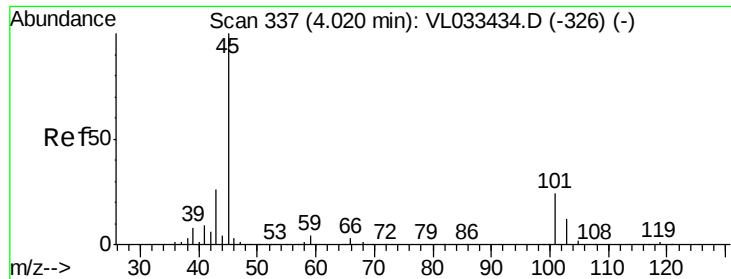
Tgt Ion: 43 Resp: 543682

Ion Ratio Lower Upper

43 100

58 26.2 20.5 30.7





#19

Isopropyl Alcohol

Concen: 1.732 ppbv

RT: 4.03 min Scan# 339

Delta R.T. 0.01 min

Lab File: VL033502.D

Acq: 29 Mar 2019 14:55

Instrument :

MSVOA_L

ClientSampleId :

IAS-3-IN-CAFE

Tot Ion: 45 Resp: 111818

Ion Ratio Lower Upper

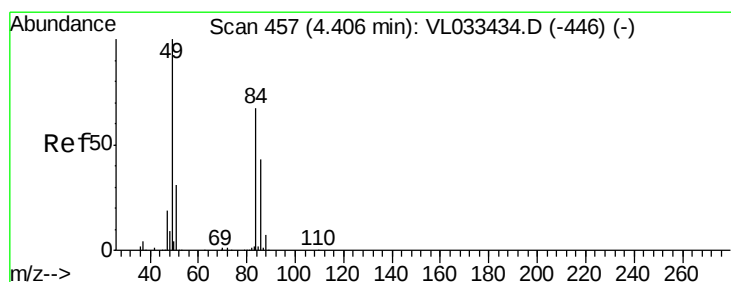
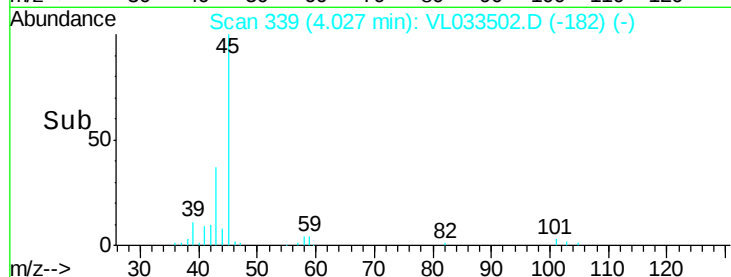
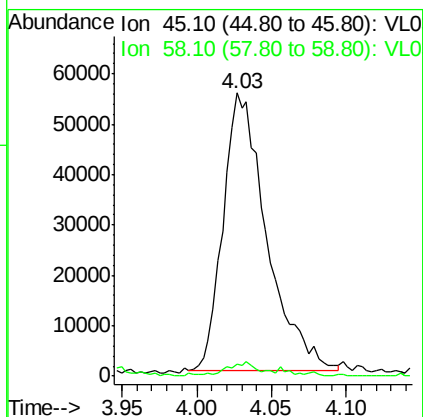
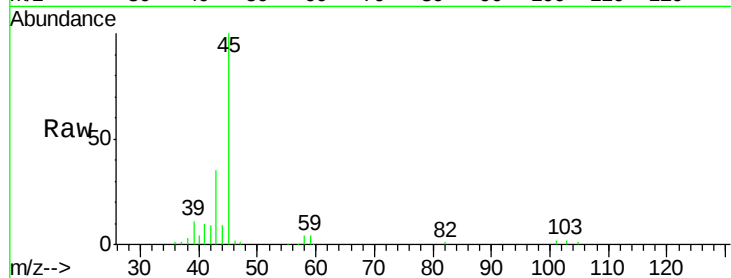
45 100

58 5.4 1.4 2.2#

Manual Integrations
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#20

Methylene Chloride

Concen: 5.791 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: VL033502.D

Acq: 29 Mar 2019 14:55

Tgt Ion: 84 Resp: 250906

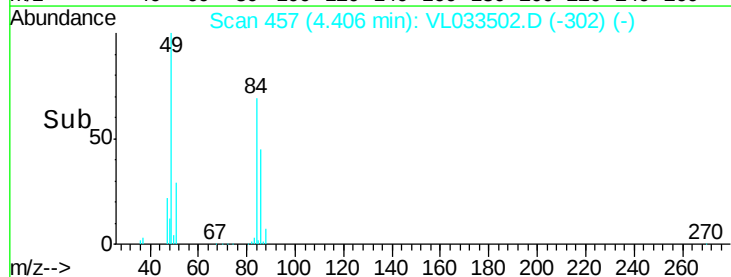
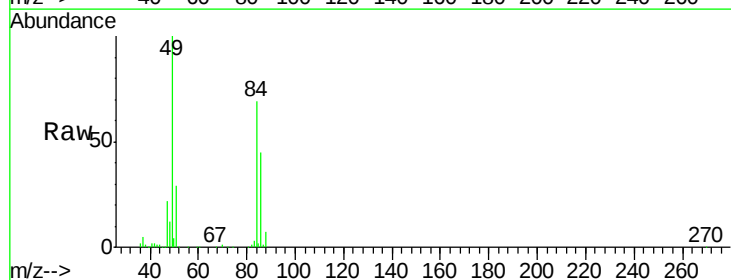
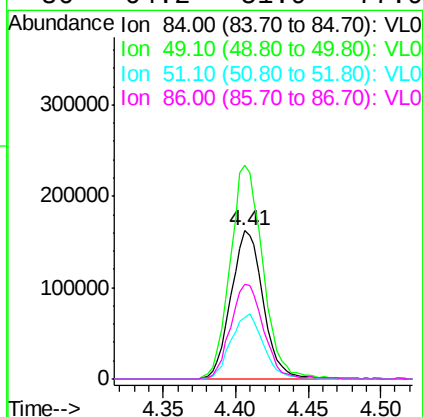
Ion Ratio Lower Upper

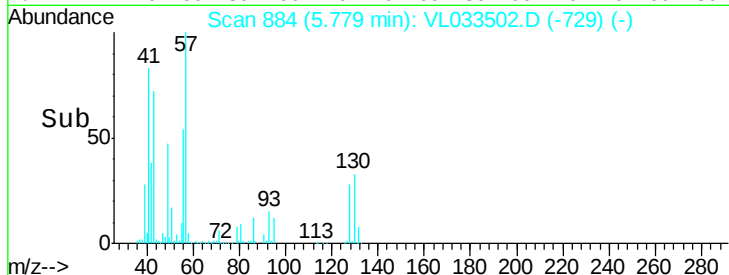
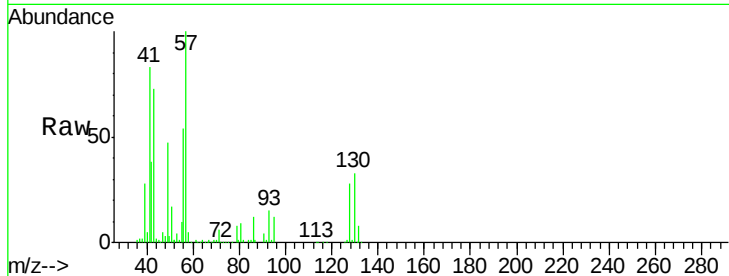
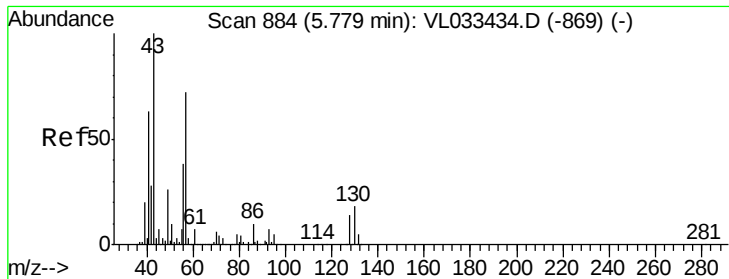
84 100

49 144.2 120.0 180.0

51 41.1 36.7 55.1

86 64.2 51.9 77.9





#26

Hexane

Concen: 3.912 ppbv

RT: 5.78 min Scan# 884

Delta R.T. -0.00 min

Lab File: VL033502.D

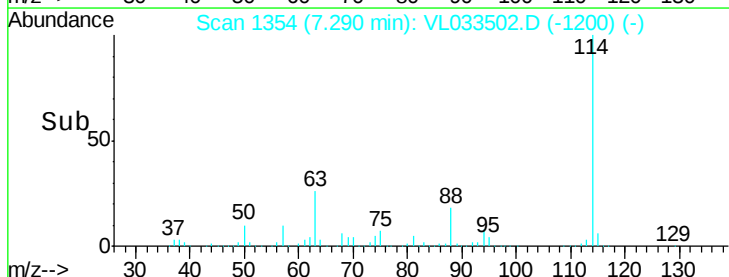
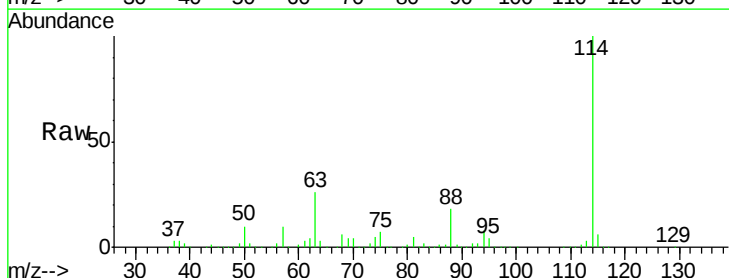
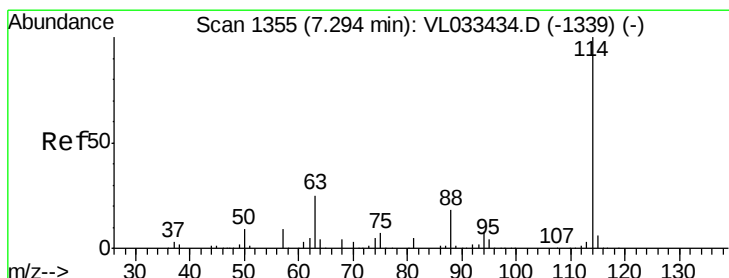
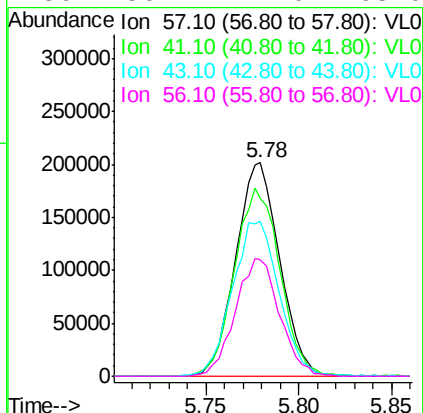
Acq: 29 Mar 2019 14:55

Tot Ion	57	Resp	329379
Ion	Ratio	Lower	Upper
57	100		
41	92.2	70.7	106.1
43	78.3	182.6	274.0#
56	56.1	42.0	63.0

Instrument :
MSVOA_L
ClientSampleId :
IAS-3-IN-CAFE

Manual Integrations
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4/1/2019 4:03:10 AM



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

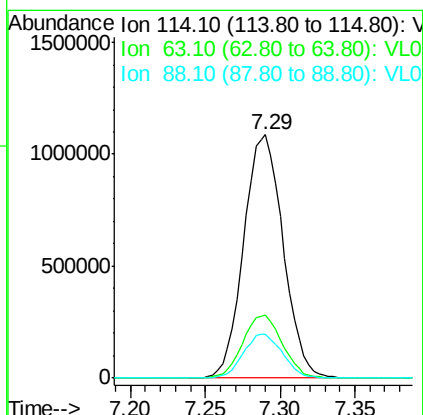
RT: 7.29 min Scan# 1354

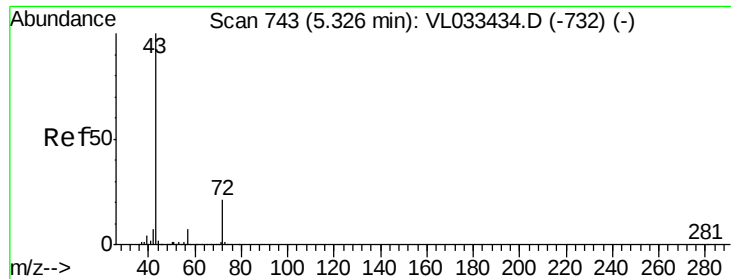
Delta R.T. -0.00 min

Lab File: VL033502.D

Acq: 29 Mar 2019 14:55

Tgt Ion	114	Resp	1994697
Ion	Ratio	Lower	Upper
114	100		
63	26.2	21.5	32.3
88	18.1	14.5	21.7





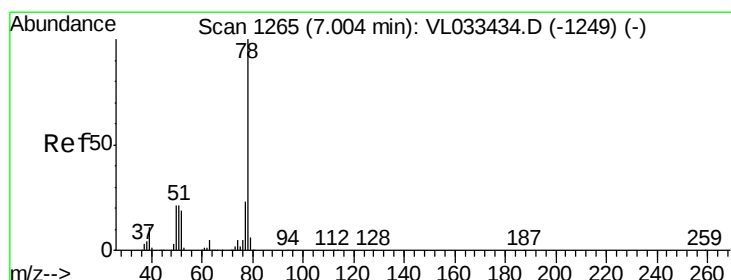
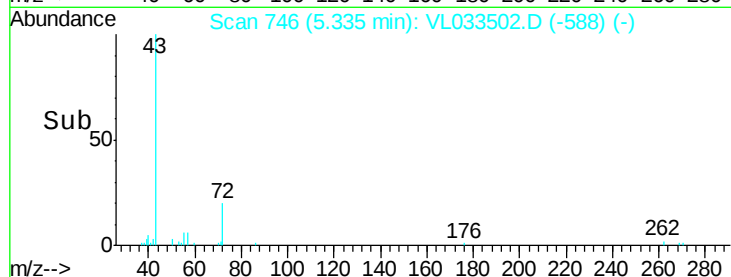
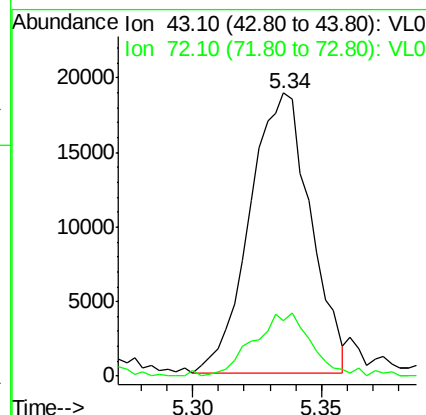
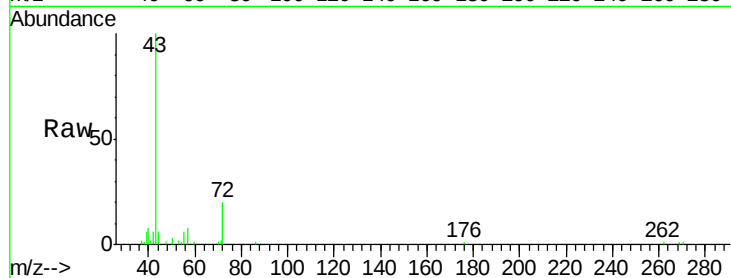
#34
2-Butanone
Concen: 0.258 ppbv
RT: 5.34 min Scan# 746
Delta R.T. 0.01 min
Lab File: VL033502.D
Acq: 29 Mar 2019 14:55

Instrument :
MSVOA_L
ClientSampleId :
IAS-3-IN-CAFE

Tot Ion	43	Resp	30910
Ion Ratio	Lower	Upper	
43	100		
72	22.1	17.4	26.2

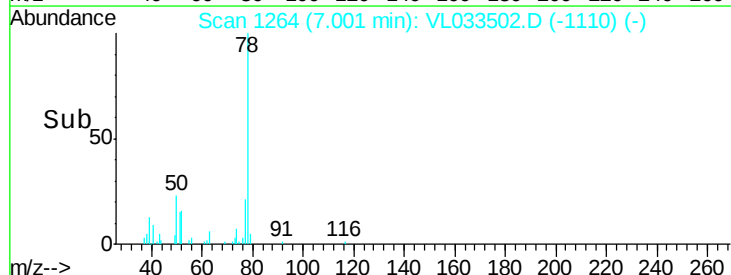
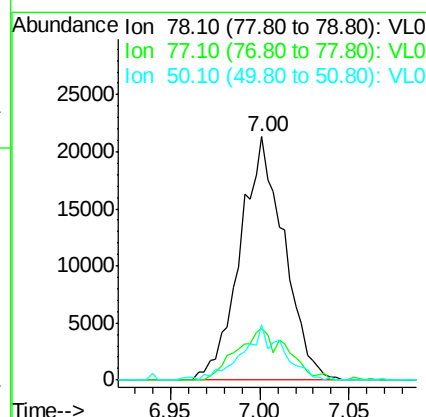
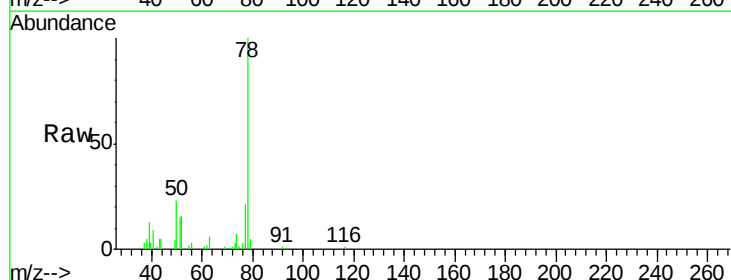
Manual Integrations
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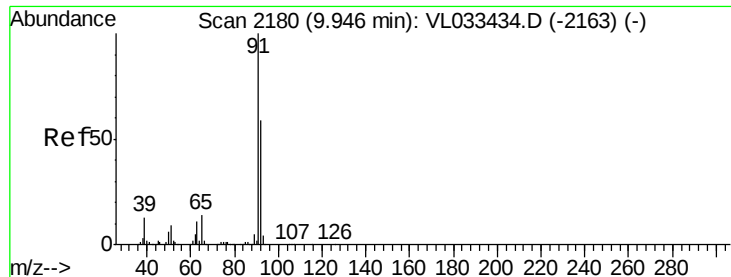
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#36
Benzene
Concen: 0.219 ppbv
RT: 7.00 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VL033502.D
Acq: 29 Mar 2019 14:55

Tgt Ion	78	Resp	36694
Ion Ratio	Lower	Upper	
78	100		
77	21.1	18.1	27.1
50	22.6	16.7	25.1





#53

Toluene

Concen: 4.254 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.00 min

Lab File: VL033502.D

Acq: 29 Mar 2019 14:55

Instrument :

MSVOA_L

ClientSampleId :

IAS-3-IN-CAFE

Tot Ion: 91 Resp: 827302

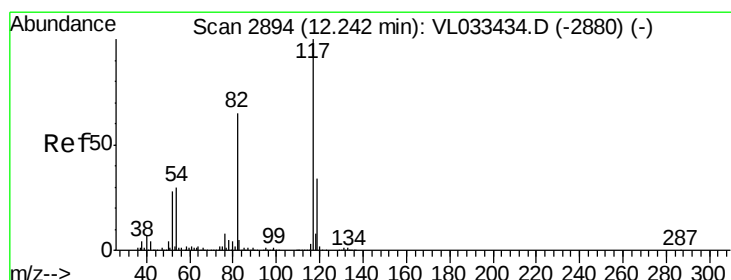
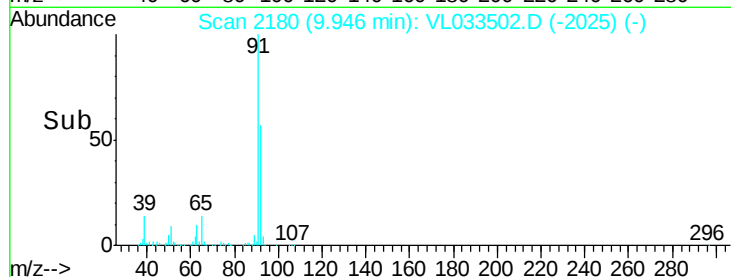
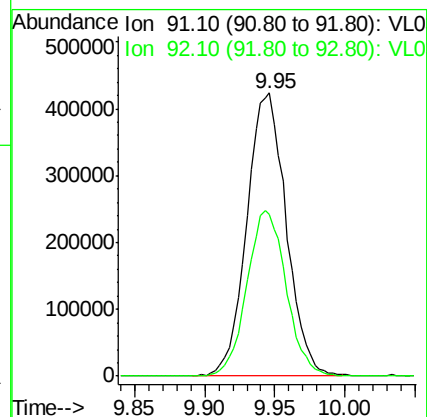
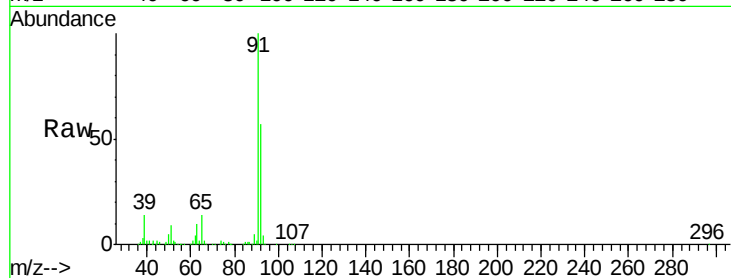
Ion Ratio Lower Upper

91 100

92 58.7 47.4 71.0

Manual Integrations
APPROVED

MMDadoda
4/1/2019 4:03:10 AM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.00 min

Lab File: VL033502.D

Acq: 29 Mar 2019 14:55

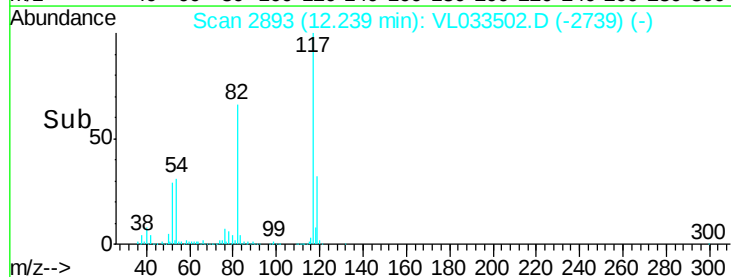
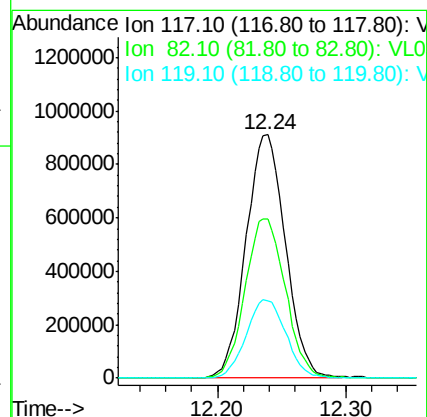
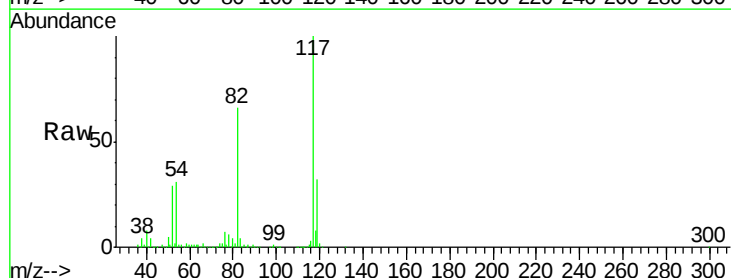
Tgt Ion: 117 Resp: 1941418

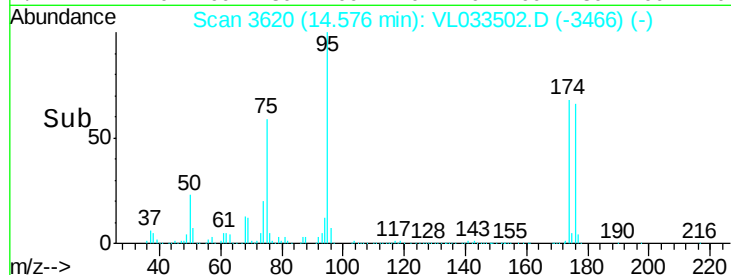
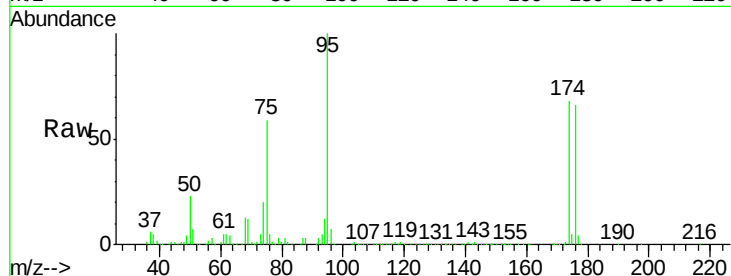
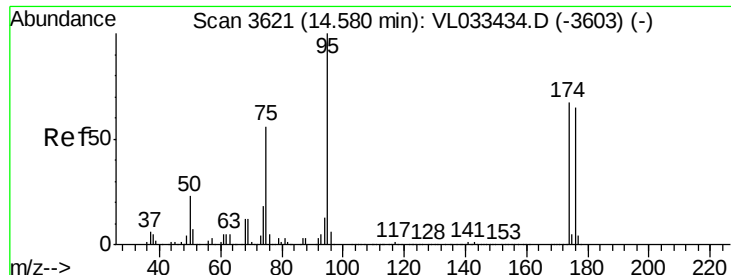
Ion Ratio Lower Upper

117 100

82 67.5 51.5 77.3

119 32.8 25.5 38.3





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.055 ppbv
 RT: 14.58 min Scan# 3620
 Delta R.T. -0.00 min
 Lab File: VL033502.D
 Acq: 29 Mar 2019 14:55

Tot Ion:	95	Resp:	1530426
Ion Ratio	Lower	Upper	
95	100		
174	66.2	52.9	79.3
175	4.8	3.8	5.6

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-3-IN-CAFE

Manual Integrations
 APPROVED
 MMDadoda
 4/1/2019 4:03:10 AM

