

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041019\
 Data File : VL033568.D
 Acq On : 10 Apr 2019 17:38
 Operator : SY/AP
 Sample : K2301-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

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

Quant Time: Apr 11 04:08:02 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	841398	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1987372	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1918253	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1519740	10.11	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	37052	0.302	ppbv	94
3) Chlorodifluoromethane	3.02	51	102529m	1.058	ppbv	
4) Chloromethane	3.17	50	26762	0.522	ppbv	93
9) Propene	3.05	41	51848m	1.275	ppbv	
11) Trichlorofluoromethane	4.01	101	31586	0.209	ppbv	96
13) Ethanol	3.65	45	331141	31.457	ppbv	65
15) Acetone	3.90	43	441338	4.362	ppbv	98
19) Isopropyl Alcohol	4.04	45	81902	1.280	ppbv #	92
20) Methylene Chloride	4.41	84	126873	2.954	ppbv	95
26) Hexane	5.78	57	93622	1.122	ppbv #	44
34) 2-Butanone	5.34	43	43466	0.364	ppbv	95
36) Benzene	7.00	78	49434	0.296	ppbv	97
53) Toluene	9.95	91	132847	0.686	ppbv	100

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

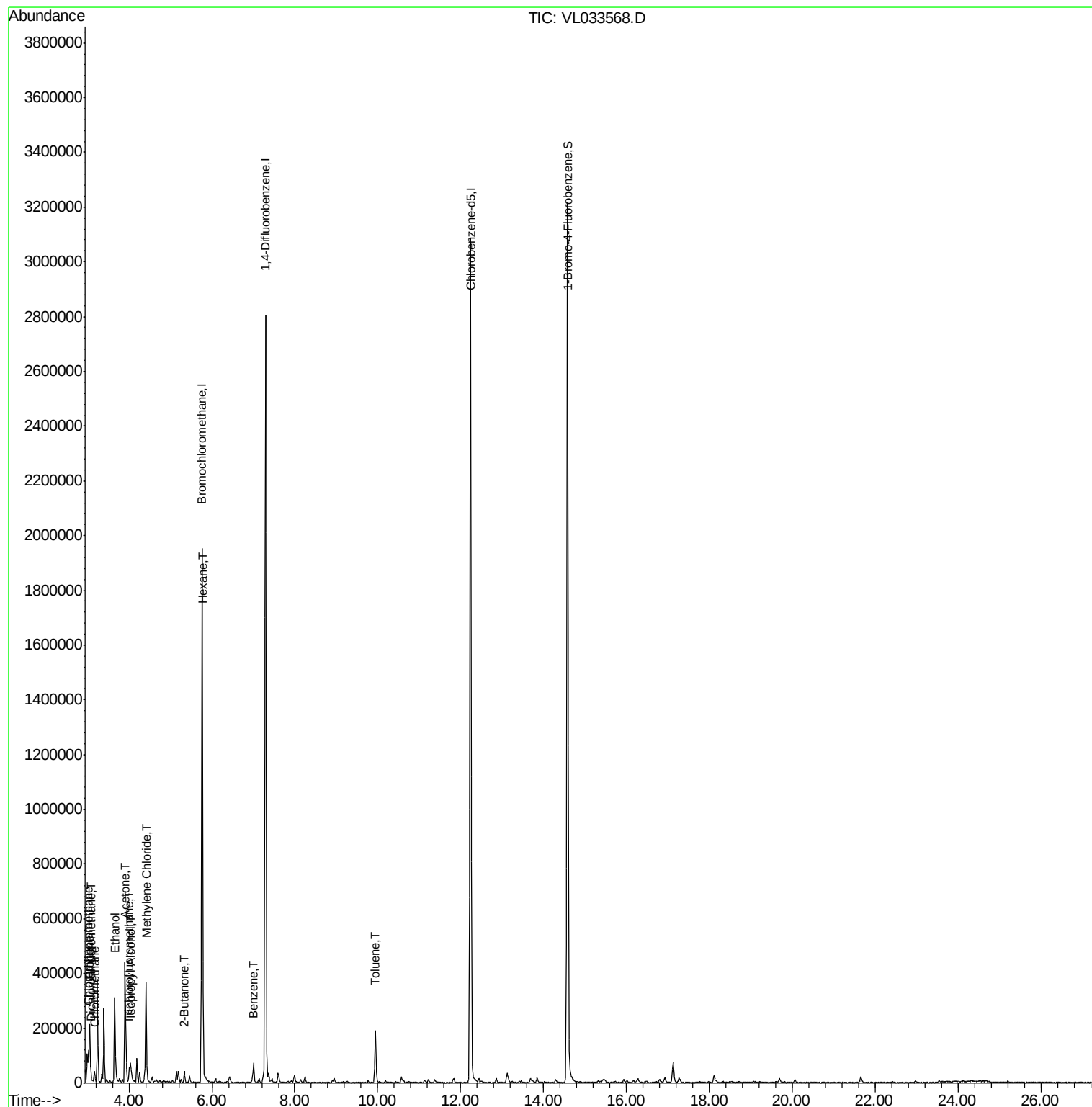
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041019\
Data File : VL033568.D
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Operator : SY/AP
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OA1

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Quant Time: Apr 11 04:08:02 2019
Quant Method : Z:\VOASRV\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# 878

Delta R.T. -0.00 min

Lab File: VL033568.D

Acq: 10 Apr 2019 17:38

Instrument :

MSVOA_L

ClientSampled :

QA1

Tot Ion: 49 Resp: 841398

Ion Ratio Lower Upper

49 100

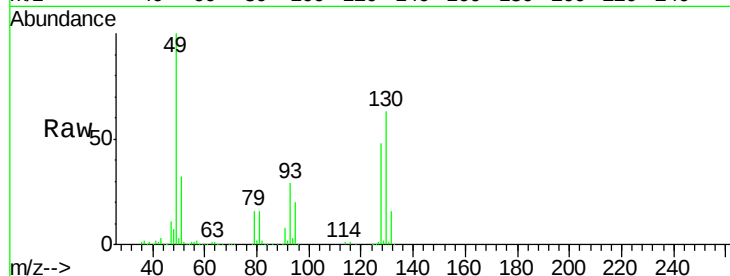
128 49.3 24.0 72.0

130 63.7 31.2 93.6

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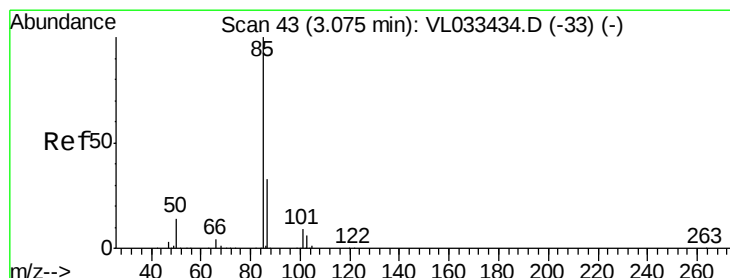
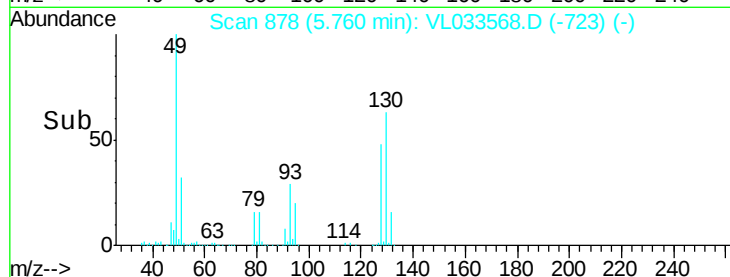
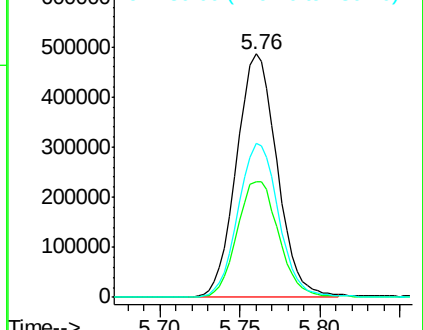
4/11/2019 1:01:11 PM



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: 0.302 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033568.D

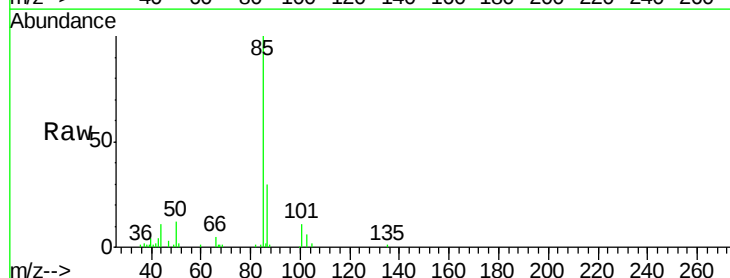
Acq: 10 Apr 2019 17:38

Tgt Ion: 85 Resp: 37052

Ion Ratio Lower Upper

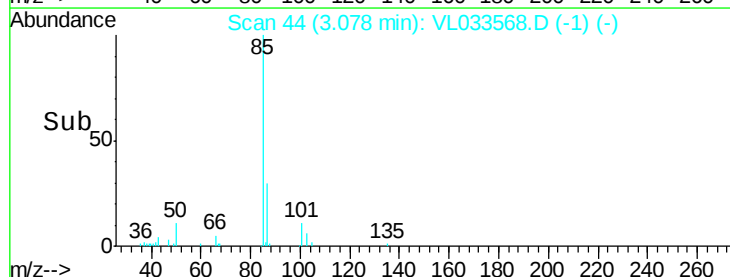
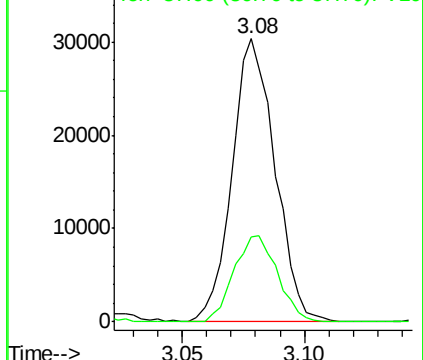
85 100

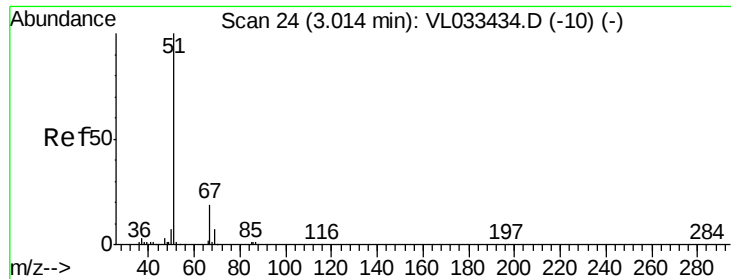
87 29.8 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

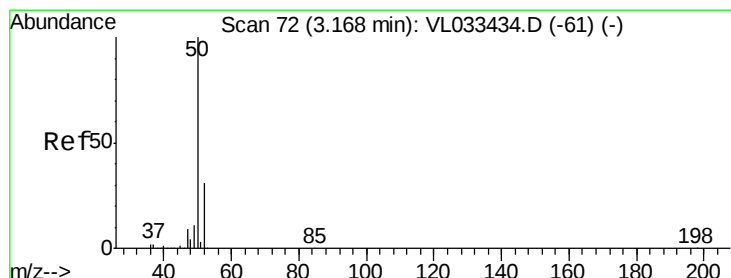
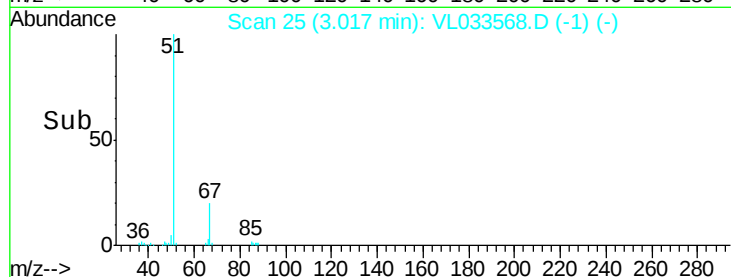
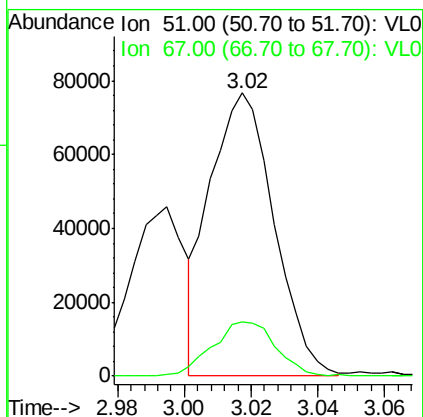
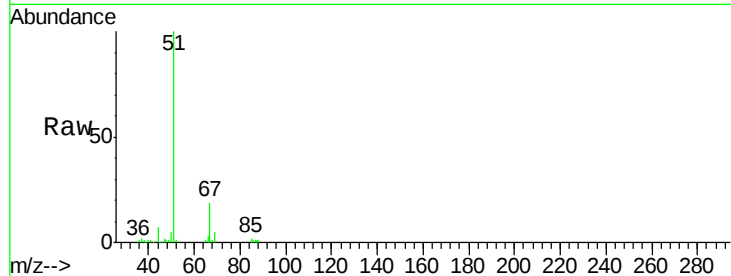
Chlorodifluoromethane
 Concen: 1.058 ppbv
 RT: 3.02 min Scan# 25
 Delta R.T. 0.00 min
 Lab File: VL033568.D
 Acq: 10 Apr 2019 17:38

Instrument :
 MSVOA_L
 ClientSampled :
 OA1

Tot Ion	51	Resp	102529
Ion Ratio	Lower	Upper	
51	100		
67	18.9	15.7	23.5

Manual Integrations
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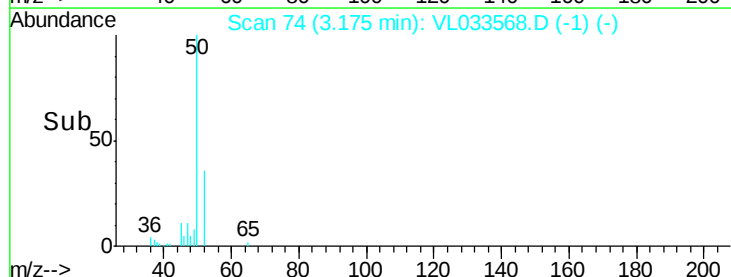
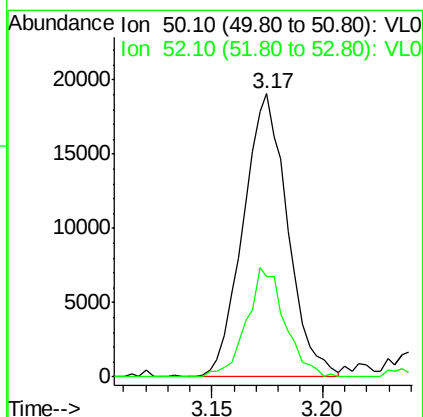
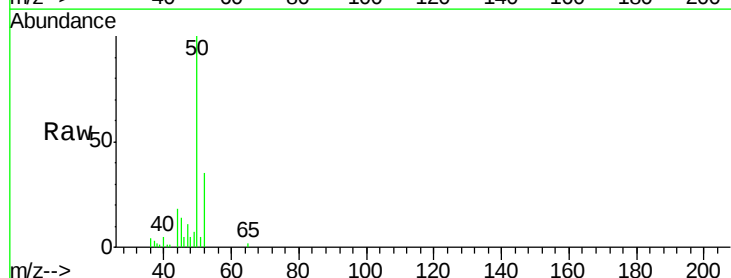
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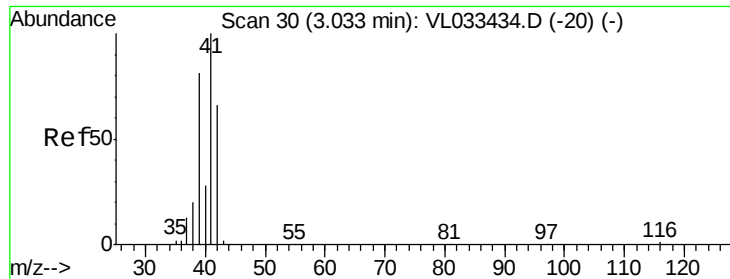


#4

Chloromethane
 Concen: 0.522 ppbv
 RT: 3.17 min Scan# 74
 Delta R.T. 0.01 min
 Lab File: VL033568.D
 Acq: 10 Apr 2019 17:38

Tgt Ion	50	Resp	26762
Ion Ratio	Lower	Upper	
50	100		
52	35.4	25.0	37.6





#9

Propene

Concen: 1.275 ppbv m

RT: 3.05 min Scan# 35

Delta R.T. 0.02 min

Lab File: VL033568.D

Acq: 10 Apr 2019 17:38

Instrument :

MSVOA_L

ClientSampled :

QA1

Tot Ion: 41 Resp: 51848

Ion Ratio Lower Upper

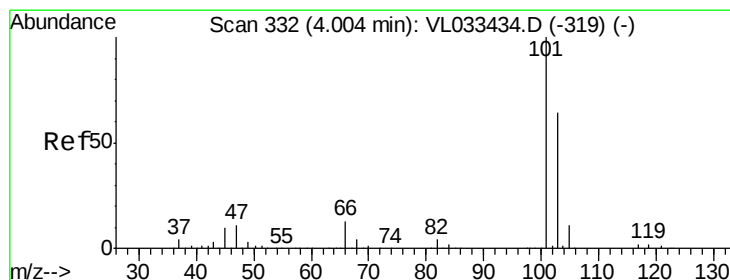
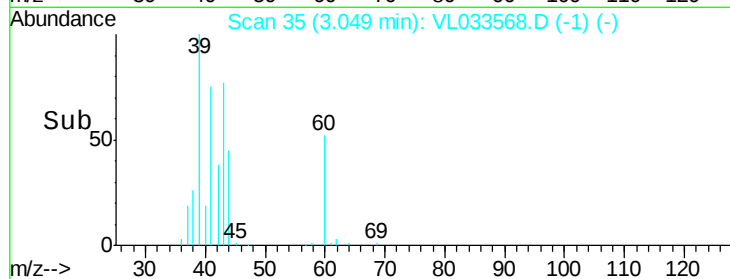
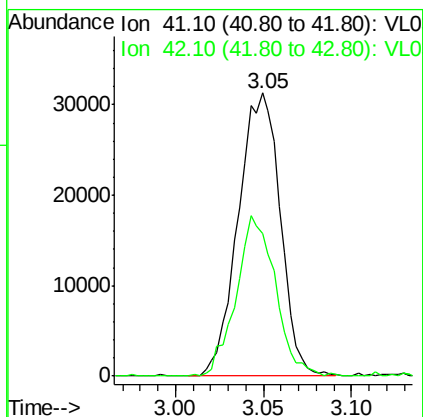
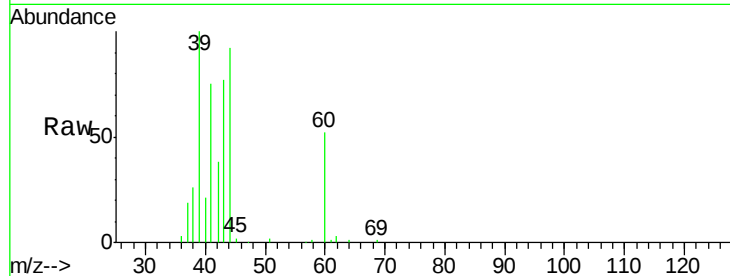
41 100

42 119.4 53.9 80.9#

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#11

Trichlorofluoromethane

Concen: 0.209 ppbv

RT: 4.01 min Scan# 333

Delta R.T. 0.00 min

Lab File: VL033568.D

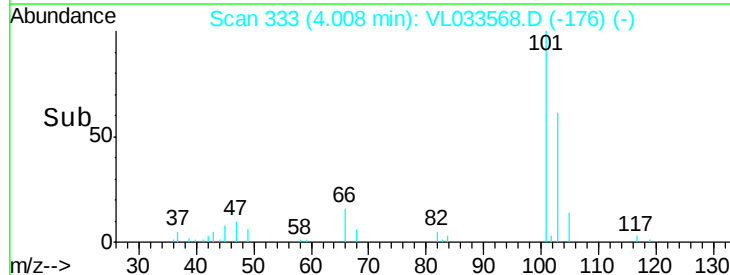
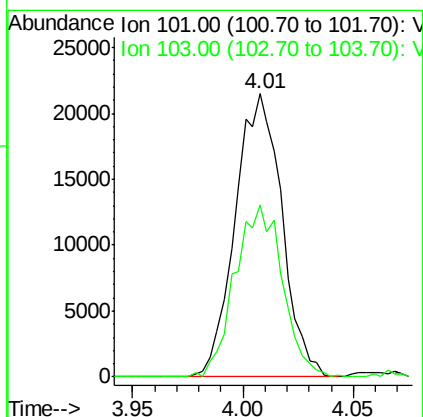
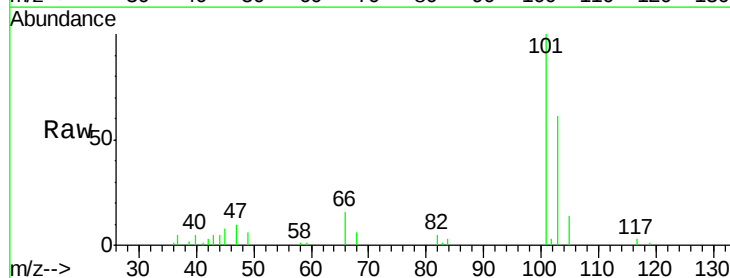
Acq: 10 Apr 2019 17:38

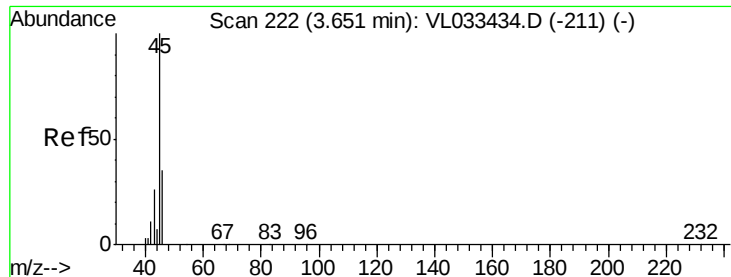
Tgt Ion: 101 Resp: 31586

Ion Ratio Lower Upper

101 100

103 60.8 51.3 76.9





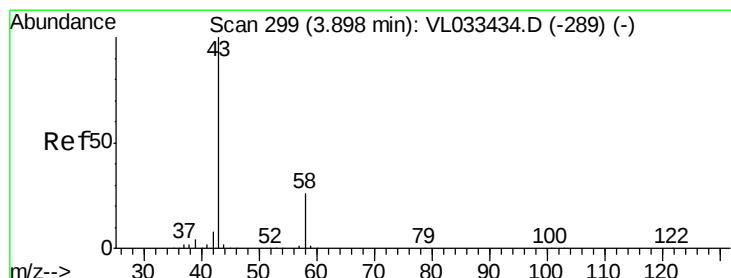
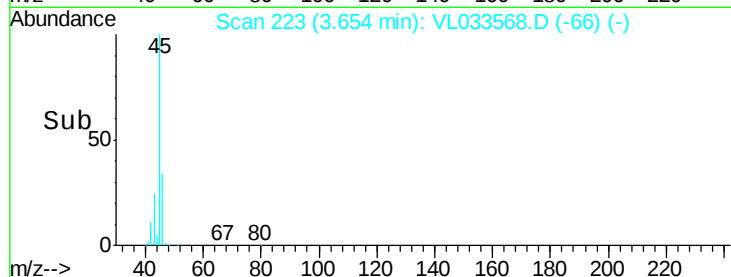
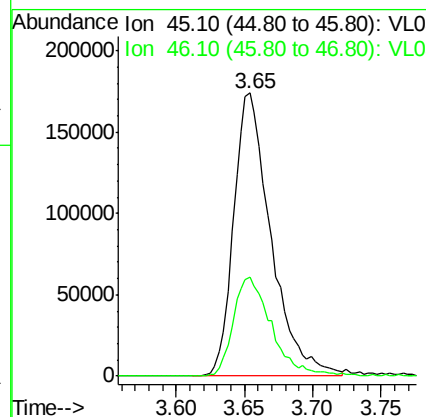
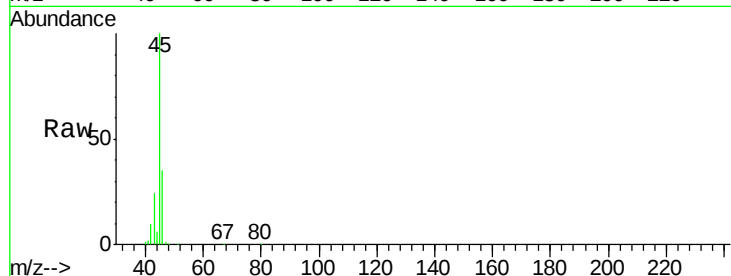
#13
Ethanol
Concen: 31.457 ppbv
RT: 3.65 min Scan# 223
Delta R.T. 0.00 min
Lab File: VL033568.D
Acq: 10 Apr 2019 17:38

Instrument :
MSVOA_L
ClientSampleId :
QA1

Tot Ion	45	Resp	331141
Ion Ratio	100	Lower	Upper
46	36.2	25.4	101.8

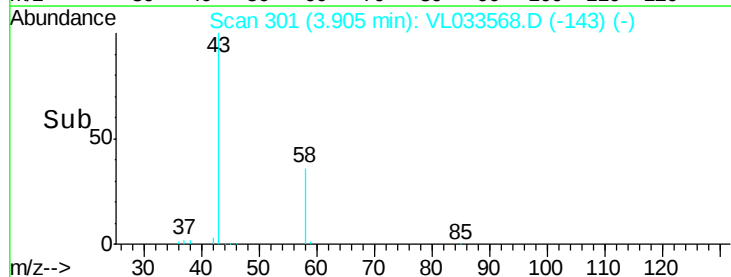
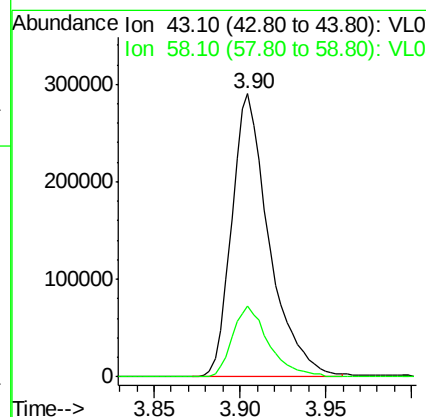
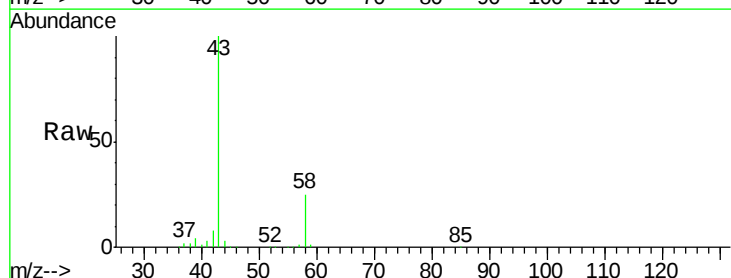
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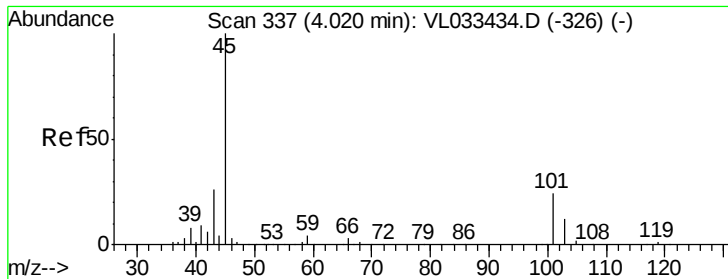
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#15
Acetone
Concen: 4.362 ppbv
RT: 3.90 min Scan# 301
Delta R.T. 0.01 min
Lab File: VL033568.D
Acq: 10 Apr 2019 17:38

Tgt Ion	43	Resp	441338
Ion Ratio	100	Lower	Upper
58	24.4	20.5	30.7





#19

Isopropyl Alcohol

Concen: 1.280 ppbv

RT: 4.04 min Scan# 342

Delta R.T. 0.02 min

Lab File: VL033568.D

Acq: 10 Apr 2019 17:38

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tot Ion: 45 Resp: 81902

Ion Ratio Lower Upper

45 100

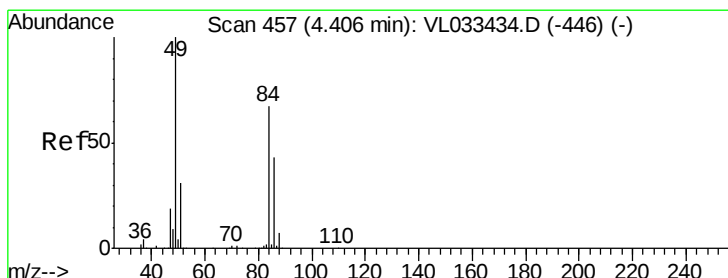
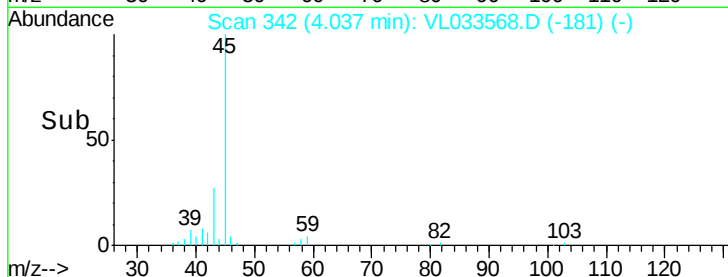
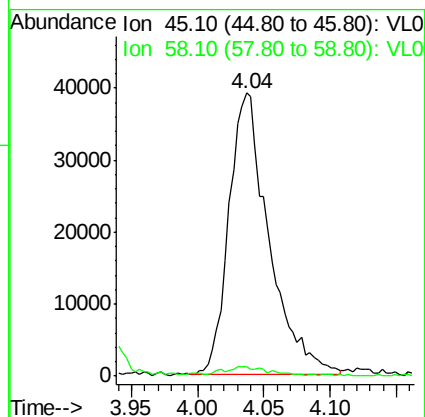
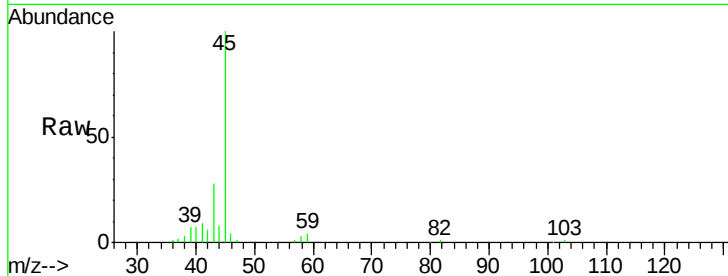
58 4.6 1.4 2.2#

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#20

Methylene Chloride

Concen: 2.954 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL033568.D

Acq: 10 Apr 2019 17:38

Tgt Ion: 84 Resp: 126873

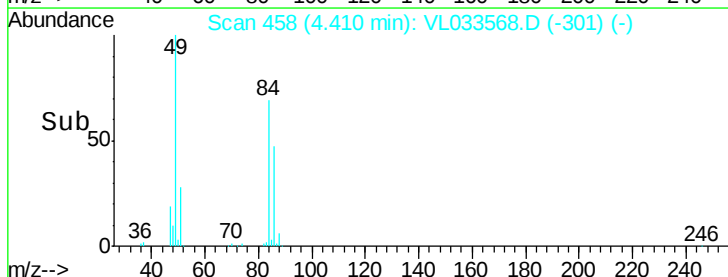
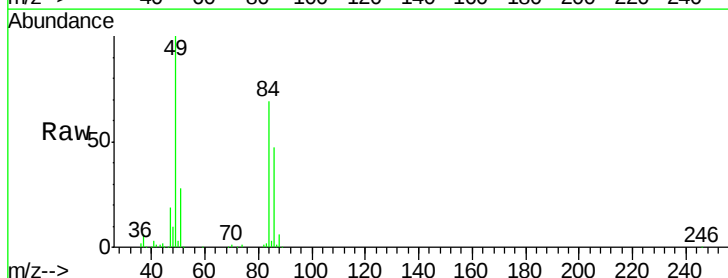
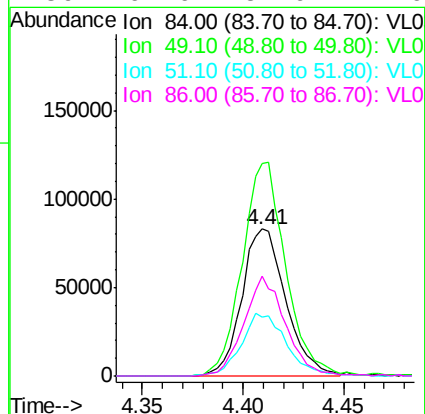
Ion Ratio Lower Upper

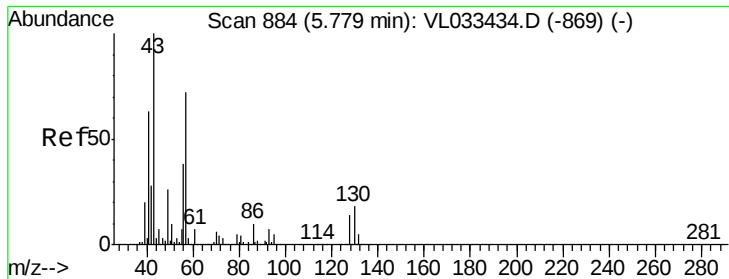
84 100

49 144.7 120.0 180.0

51 40.4 36.7 55.1

86 67.6 51.9 77.9





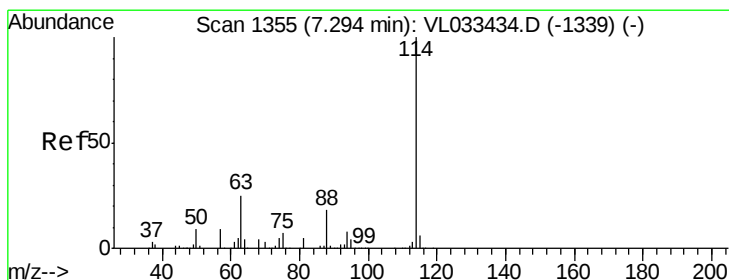
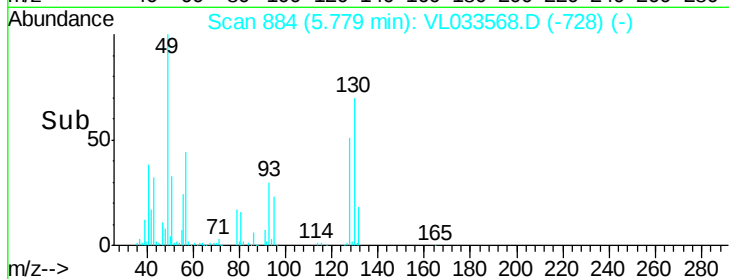
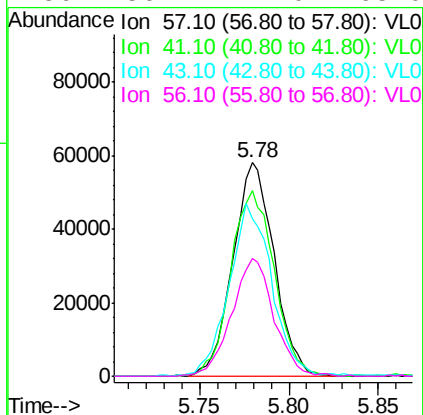
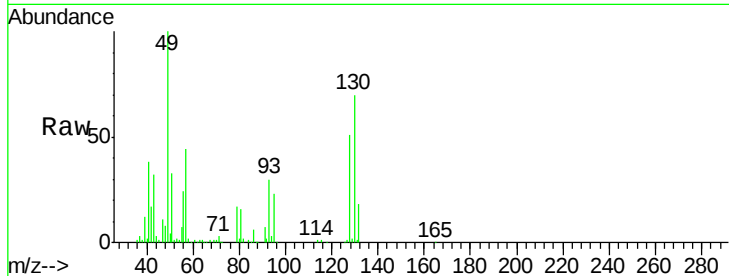
#26
Hexane
Concen: 1.122 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.00 min
Lab File: VL033568.D
Acq: 10 Apr 2019 17:38

Instrument :
MSVOA_L
ClientSampleId :
QA1

Tot Ion	57	Resp	93622
Ion	Ratio	Lower	Upper
57	100		
41	92.3	70.7	106.1
43	84.7	182.6	274.0#
56	56.4	42.0	63.0

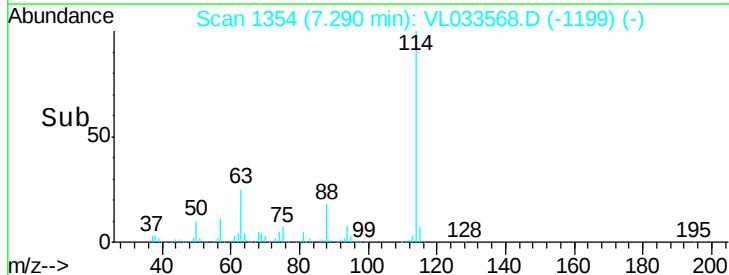
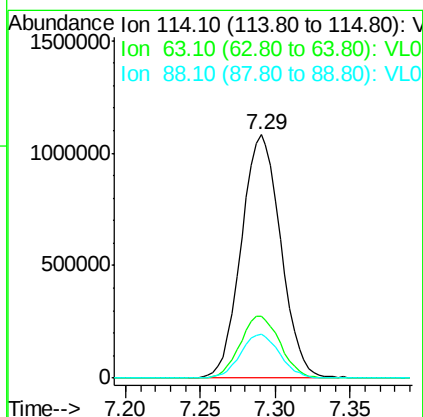
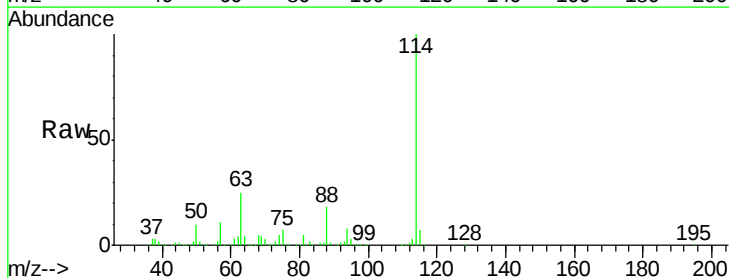
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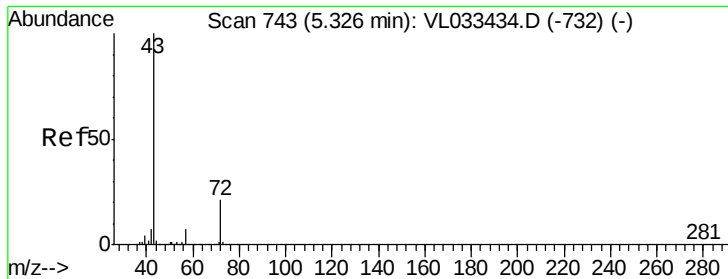
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1354
Delta R.T. -0.00 min
Lab File: VL033568.D
Acq: 10 Apr 2019 17:38

Tgt Ion	114	Resp	1987372
Ion	Ratio	Lower	Upper
114	100		
63	25.8	21.5	32.3
88	17.9	14.5	21.7





#34

2-Butanone

Concen: 0.364 ppbv

RT: 5.34 min Scan# 746

Delta R.T. 0.01 min

Lab File: VL033568.D

Acq: 10 Apr 2019 17:38

Instrument :

MSVOA_L

ClientSampled :

QA1

Tot Ion: 43 Resp: 43466

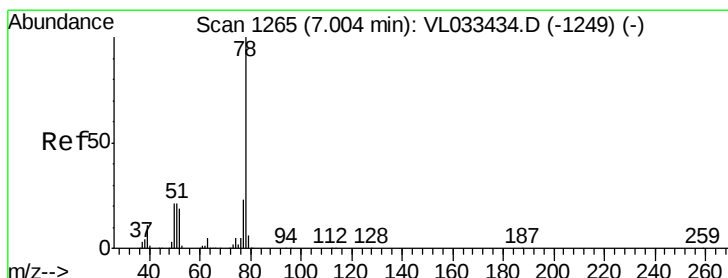
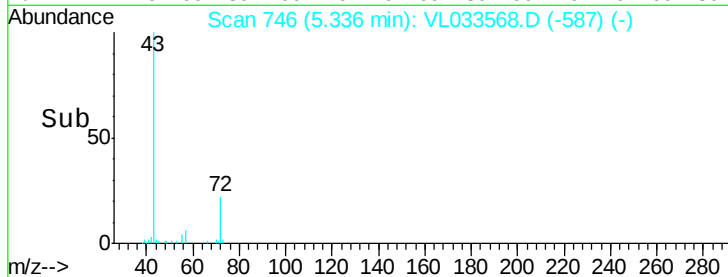
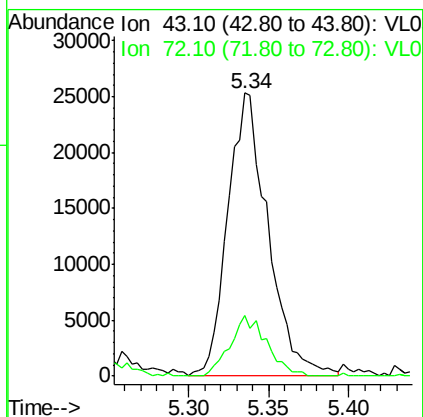
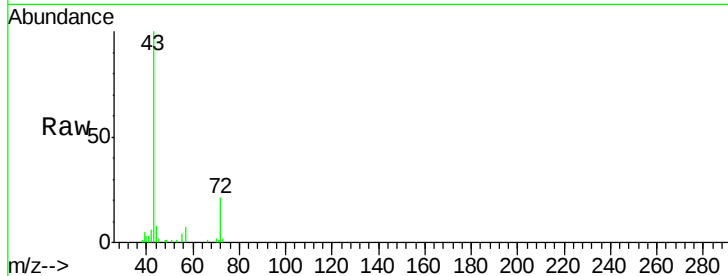
Ion Ratio Lower Upper

43 100

72 19.3 17.4 26.2

Manual Integrations
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#36

Benzene

Concen: 0.296 ppbv

RT: 7.00 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VL033568.D

Acq: 10 Apr 2019 17:38

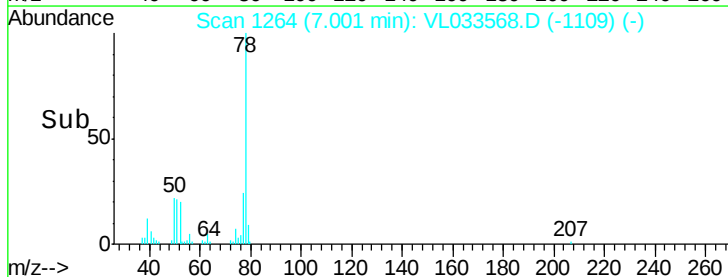
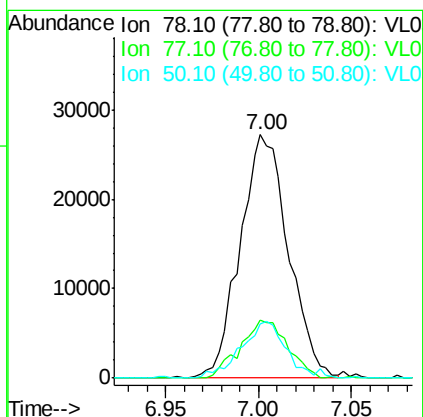
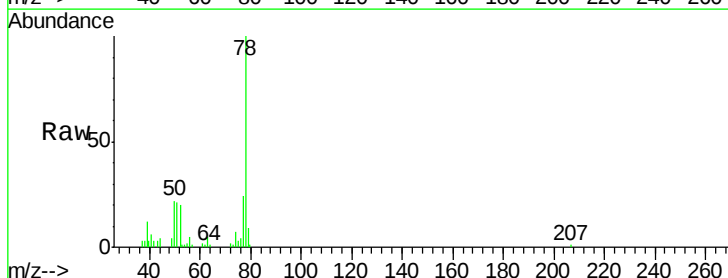
Tgt Ion: 78 Resp: 49434

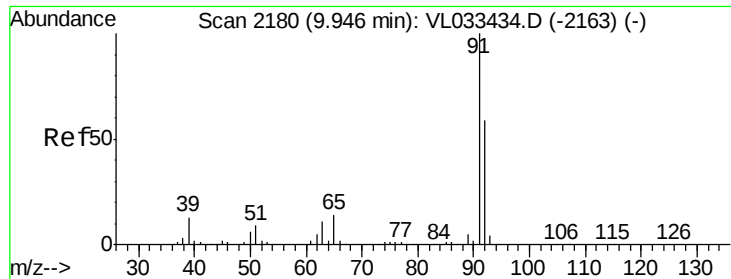
Ion Ratio Lower Upper

78 100

77 23.9 18.1 27.1

50 22.1 16.7 25.1





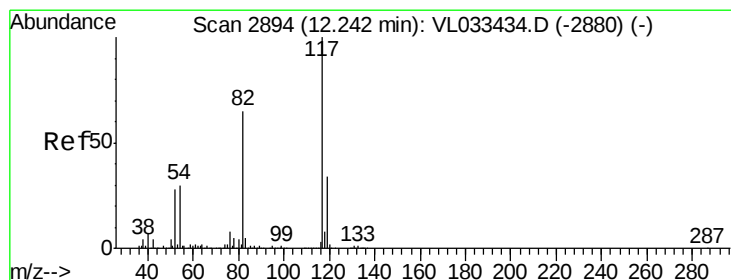
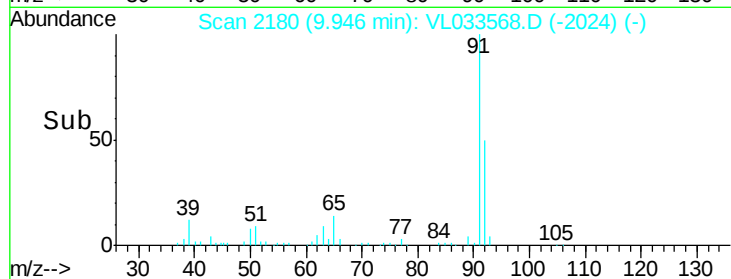
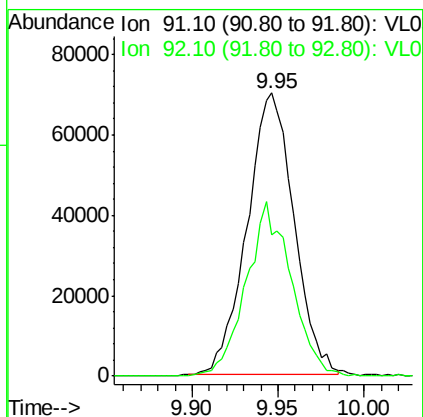
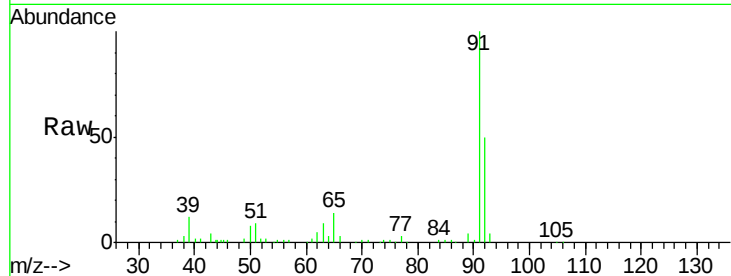
#53
Toluene
Concen: 0.686 ppbv
RT: 9.95 min Scan# 2180
Delta R.T. 0.00 min
Lab File: VL033568.D
Acq: 10 Apr 2019 17:38

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tot Ion: 91 Resp: 132847
Ion Ratio Lower Upper
91 100
92 58.9 47.4 71.0

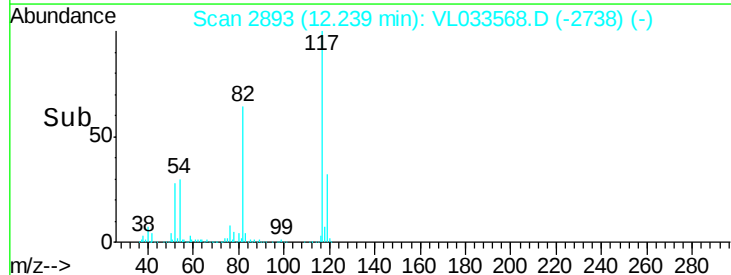
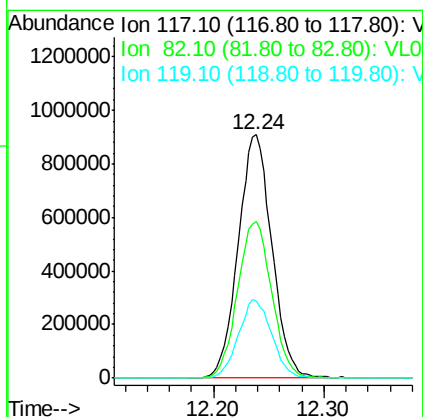
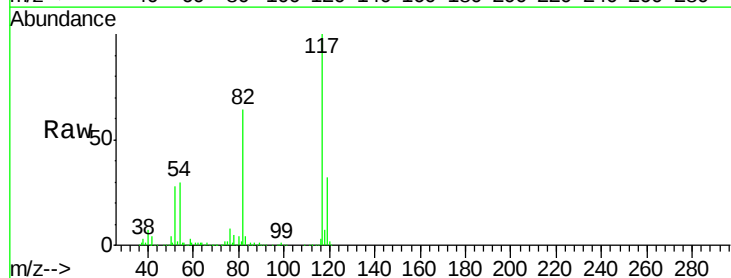
Manual Integrations
APPROVED

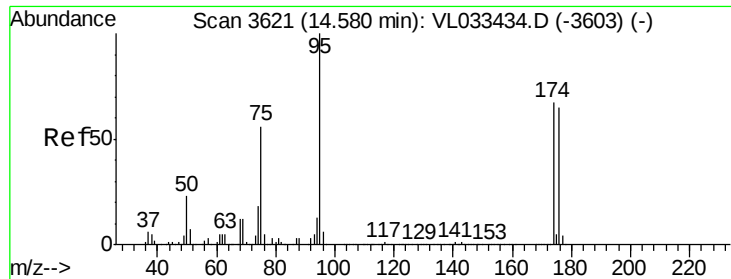
MMDadoda
4/11/2019 1:01:11 PM



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.00 min
Lab File: VL033568.D
Acq: 10 Apr 2019 17:38

Tgt Ion: 117 Resp: 1918253
Ion Ratio Lower Upper
117 100
82 65.9 51.5 77.3
119 32.2 25.5 38.3





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.106 ppbv
 RT: 14.58 min Scan# 3620
 Delta R.T. -0.00 min
 Lab File: VL033568.D
 Acq: 10 Apr 2019 17:38

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Tot Ion: 95 Resp: 1519740
 Ion Ratio Lower Upper
 95 100
 174 67.9 52.9 79.3
 175 4.8 3.8 5.6

Manual Integrations
 APPROVED

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

