

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101818\
 Data File : VL032665.D
 Acq On : 19 Oct 2018 2:26
 Operator : SY/AP
 Sample : J5578-01DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1DUP

Manual Integrations
 APPROVED

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 10/24/2018 12:05:12 PM

Quant Time: Oct 23 09:57:39 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Oct 19 2018
 QLast Update : Fri Oct 19 01:25:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1393316	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3514059	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3239054	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.59	95	2374903	9.85	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.09	85	71217	0.502	ppbv	97
3) Chlorodifluoromethane	3.03	51	44630	0.410	ppbv #	89
4) Chloromethane	3.18	50	32064	0.527	ppbv	98
9) Propene	3.06	41	17100	0.381	ppbv #	79
11) Trichlorofluoromethane	4.01	101	45026	0.243	ppbv	99
13) Ethanol	3.67	45	62838	4.903	ppbv	99
15) Acetone	3.92	43	218677	1.700	ppbv	99
19) Isopropyl Alcohol	4.07	45	22207	0.242	ppbv #	1
20) Methylene Chloride	4.43	84	21628	0.331	ppbv #	83
34) 2-Butanone	5.36	43	43720m	0.232	ppbv	
35) Carbon Tetrachloride	7.15	117	20633m	0.083	ppbv	
53) Toluene	9.96	91	56349m	0.172	ppbv	

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

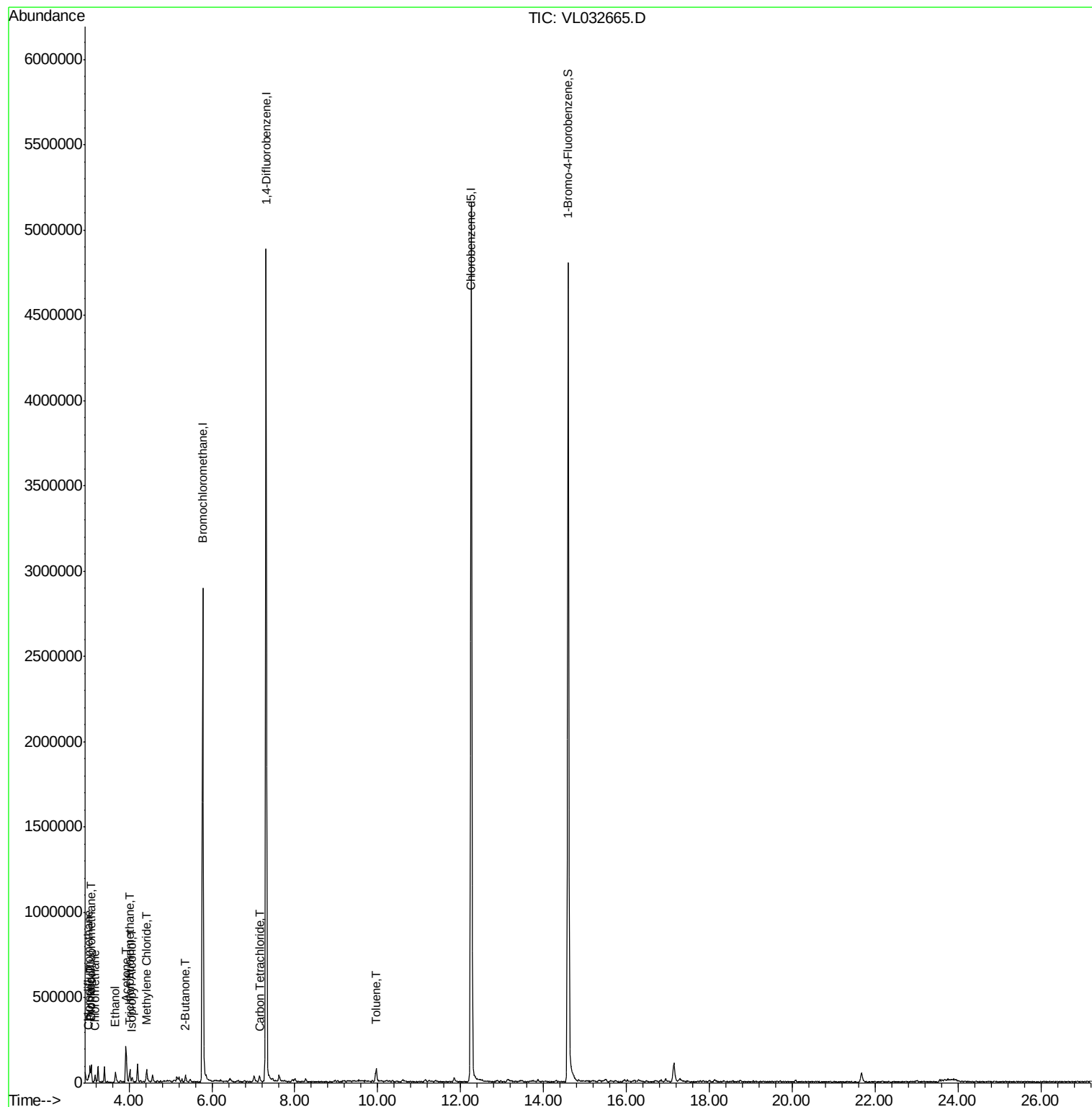
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL101818\
Data File : VL032665.D
Acq On : 19 Oct 2018 2:26
Operator : SY/AP
Sample : J5578-01DUP
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

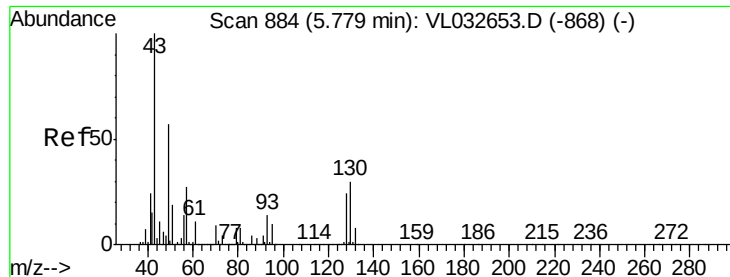
Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

Manual Integrations
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Quant Time: Oct 23 09:57:39 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Oct
QLast Update : Fri Oct 19 01:25:37 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 882

Delta R.T. -0.01 min

Lab File: VL032665.D

Acq: 19 Oct 2018 2:26

Instrument :

MSVOA_L

ClientSampled :

AA-1DUP

Tot Ion: 49 Resp: 1393316

Ion Ratio Lower Upper

49 100

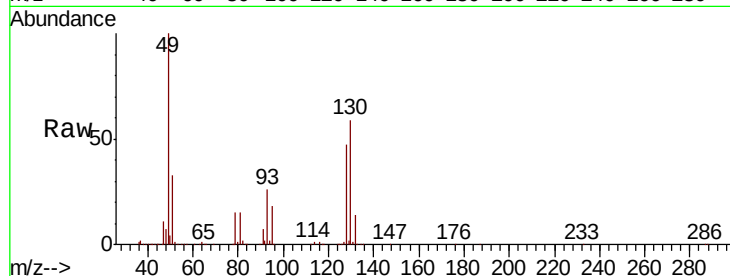
128 48.1 22.3 66.8

130 61.9 28.4 85.3

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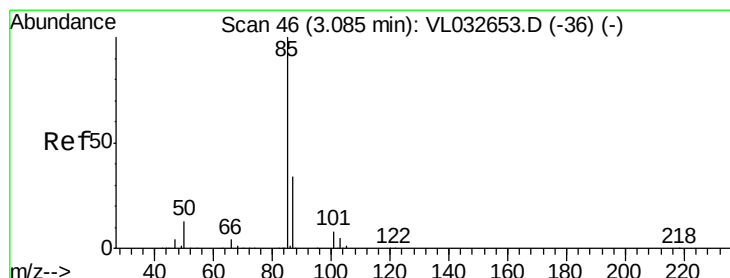
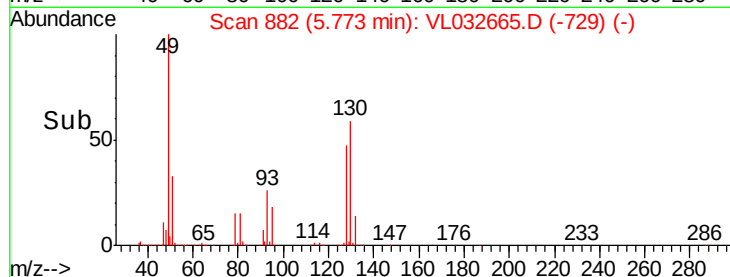
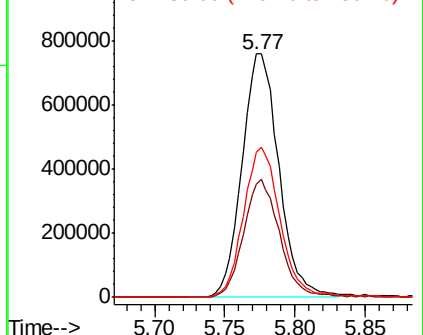
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.502 ppbv

RT: 3.09 min Scan# 48

Delta R.T. 0.01 min

Lab File: VL032665.D

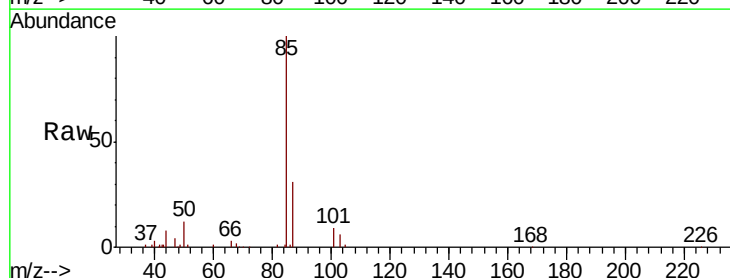
Acq: 19 Oct 2018 2:26

Tgt Ion: 85 Resp: 71217

Ion Ratio Lower Upper

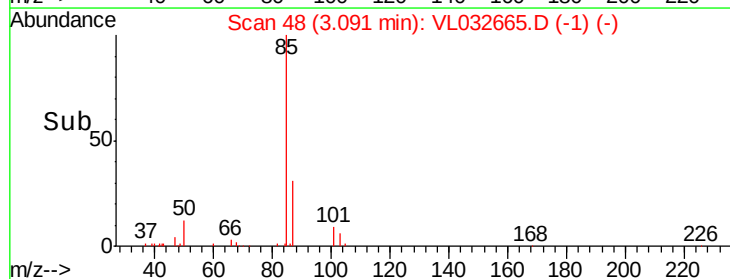
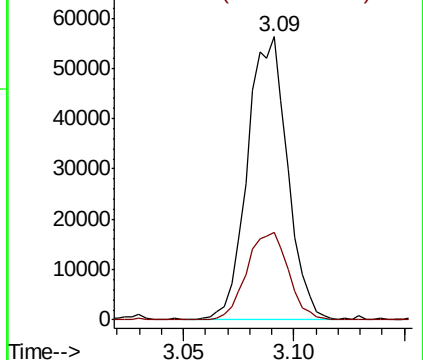
85 100

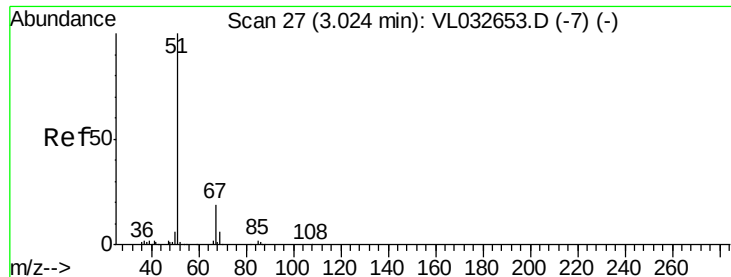
87 31.1 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.410 ppbv

RT: 3.03 min Scan# 28

Delta R.T. 0.00 min

Lab File: VL032665.D

Acq: 19 Oct 2018 2:26

Instrument :

MSVOA_L

ClientSampleId :

AA-1DUP

Tot Ion: 51 Resp: 44630

Ion Ratio Lower Upper

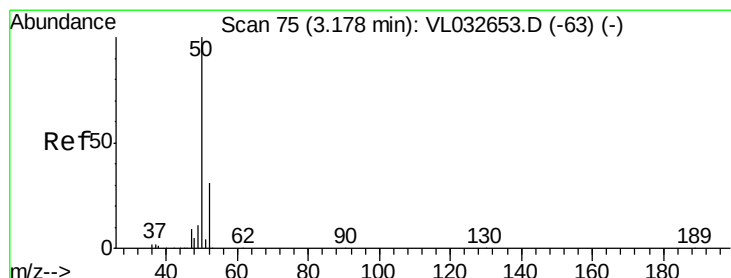
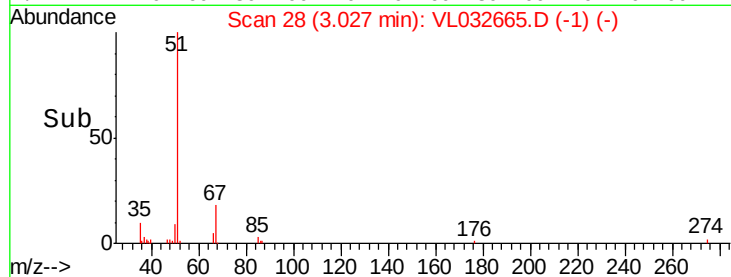
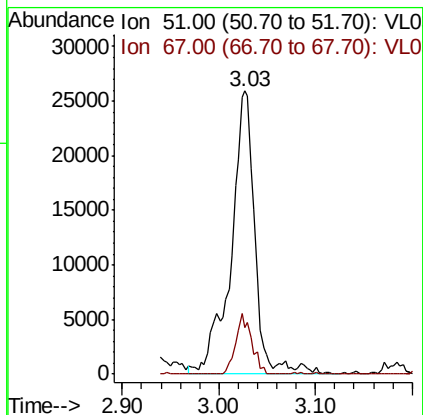
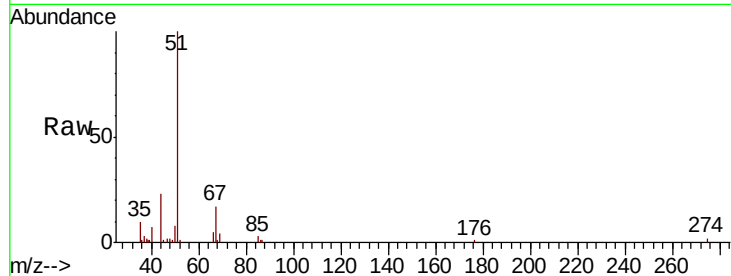
51 100

67 14.1 15.2 22.8#

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#4

Chloromethane

Concen: 0.527 ppbv

RT: 3.18 min Scan# 77

Delta R.T. 0.01 min

Lab File: VL032665.D

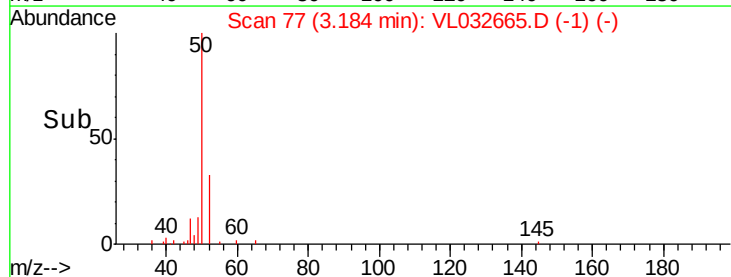
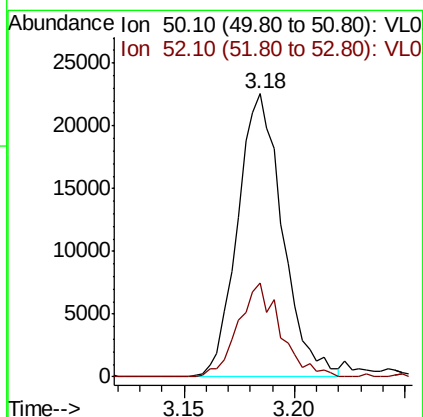
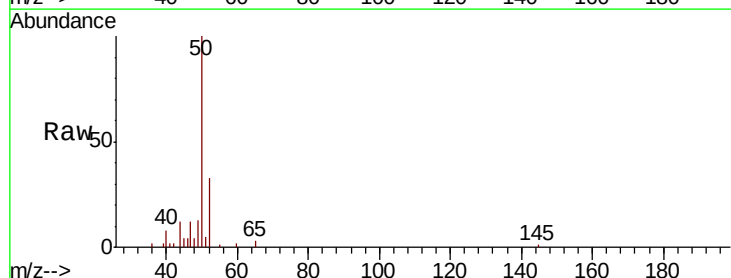
Acq: 19 Oct 2018 2:26

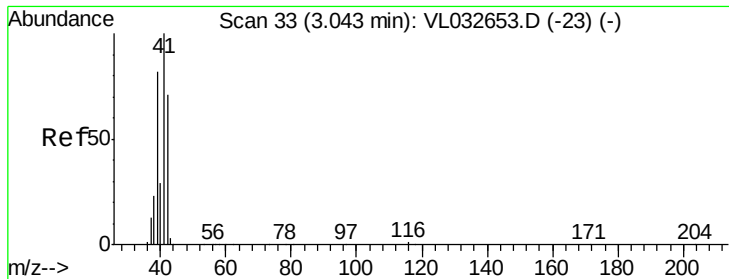
Tgt Ion: 50 Resp: 32064

Ion Ratio Lower Upper

50 100

52 33.3 25.9 38.9





#9

Propene

Concen: 0.381 ppbv

RT: 3.06 min Scan# 39

Delta R.T. 0.02 min

Lab File: VL032665.D

Acq: 19 Oct 2018 2:26

Instrument :

MSVOA_L

ClientSampled :

AA-1DUP

Tot Ion: 41 Resp: 17100

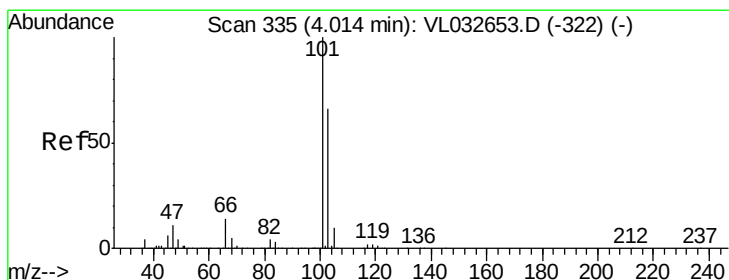
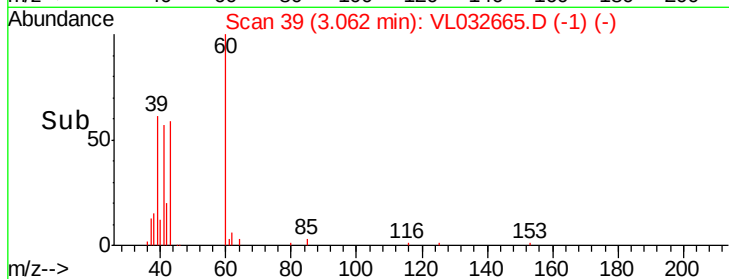
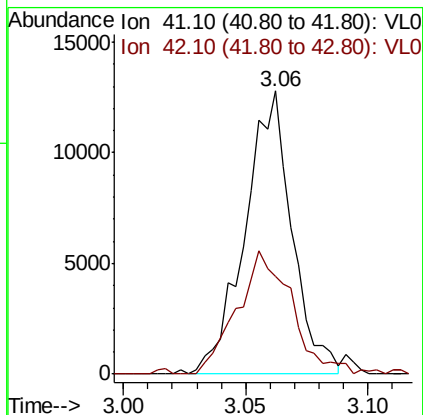
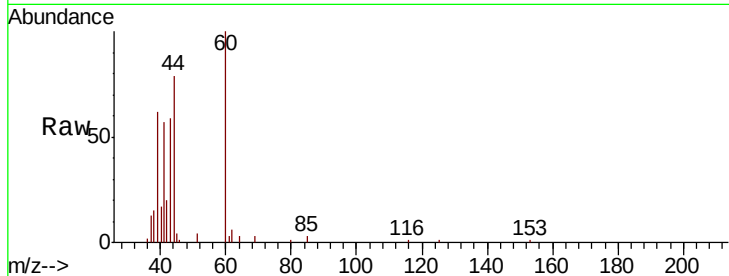
Ion Ratio Lower Upper

41 100

42 51.9 55.4 83.0#

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#11

Trichlorofluoromethane

Concen: 0.243 ppbv

RT: 4.01 min Scan# 335

Delta R.T. -0.00 min

Lab File: VL032665.D

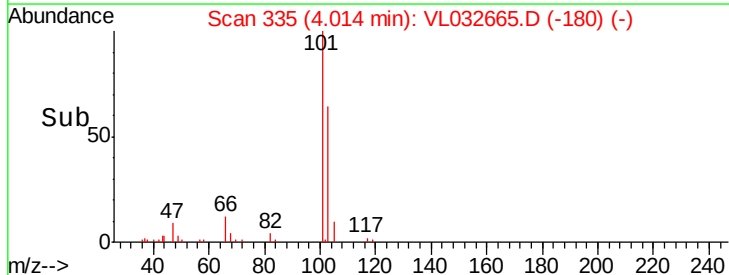
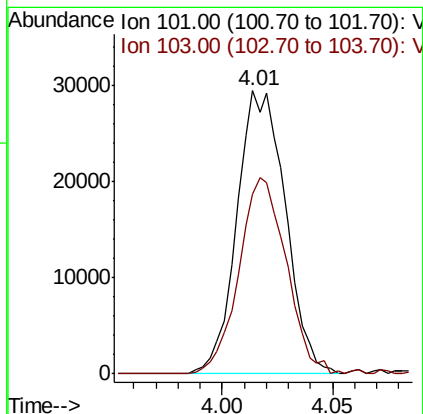
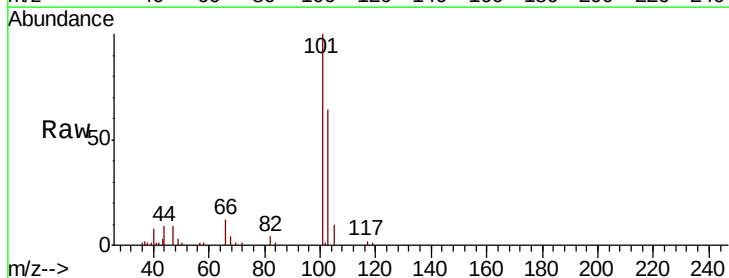
Acq: 19 Oct 2018 2:26

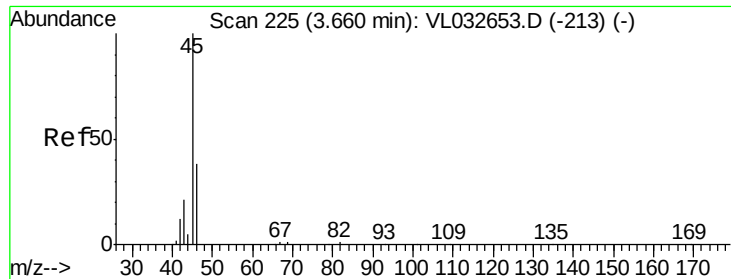
Tgt Ion: 101 Resp: 45026

Ion Ratio Lower Upper

101 100

103 63.5 51.4 77.2





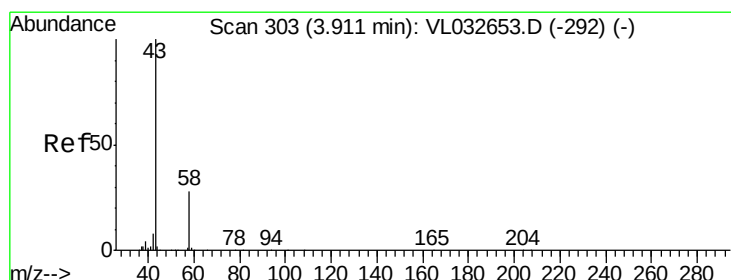
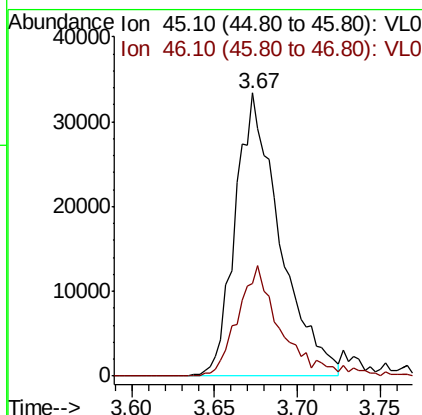
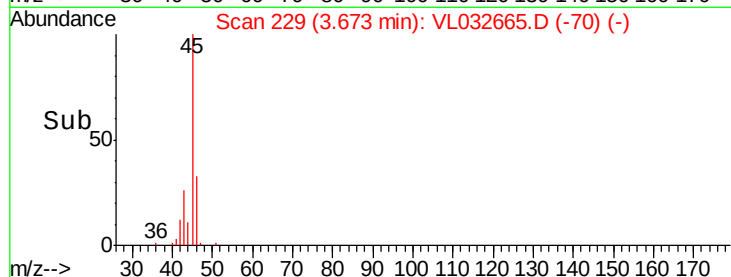
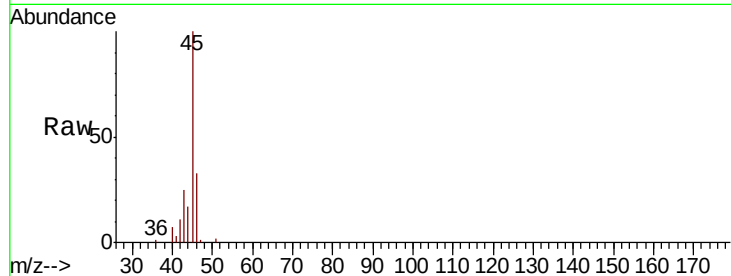
#13
Ethanol
Concen: 4.903 ppbv
RT: 3.67 min Scan# 229
Delta R.T. 0.01 min
Lab File: VL032665.D
Acq: 19 Oct 2018 2:26

Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

Tot Ion	Ratio	Lower	Upper
45	100		
46	38.1	15.4	61.8

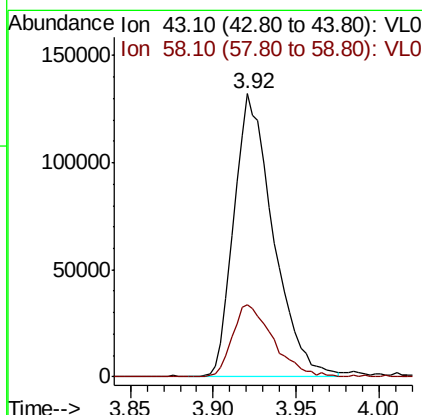
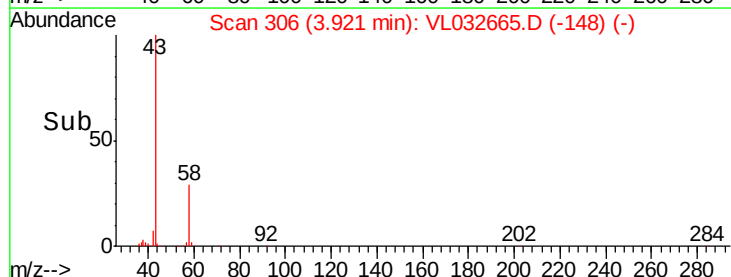
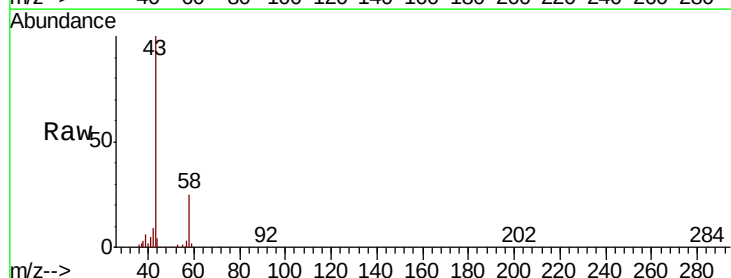
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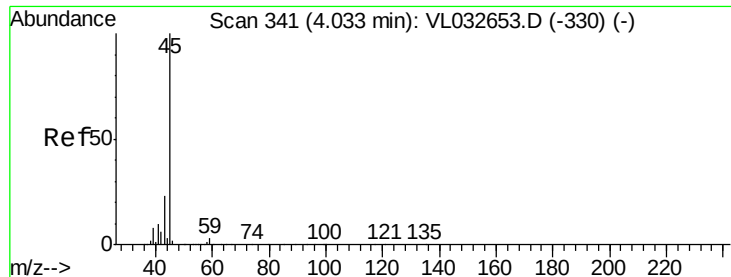
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#15
Acetone
Concen: 1.700 ppbv
RT: 3.92 min Scan# 306
Delta R.T. 0.01 min
Lab File: VL032665.D
Acq: 19 Oct 2018 2:26

Tgt Ion	Ratio	Lower	Upper
43	100		
58	27.0	22.1	33.1





#19

Isopropyl Alcohol

Concen: 0.242 ppbv

RT: 4.07 min Scan# 352

Delta R.T. 0.04 min

Lab File: VL032665.D

Acq: 19 Oct 2018 2:26

Instrument :

MSVOA_L

ClientSampled :

AA-1DUP

Tot Ion: 45 Resp: 22207

Ion Ratio Lower Upper

45 100

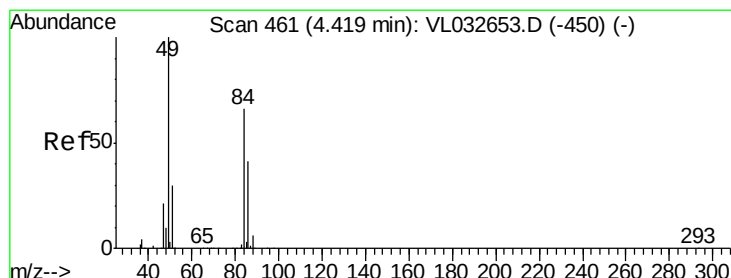
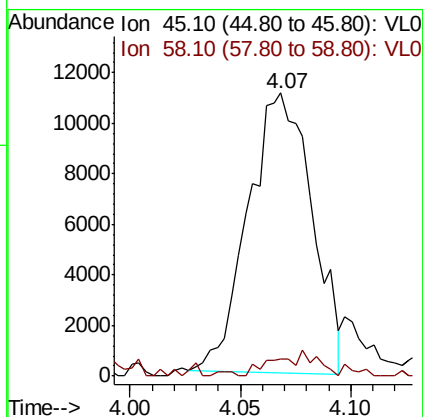
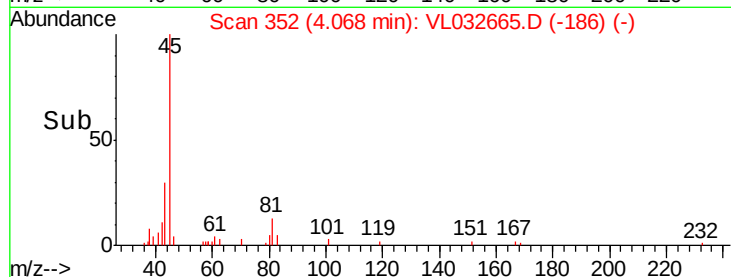
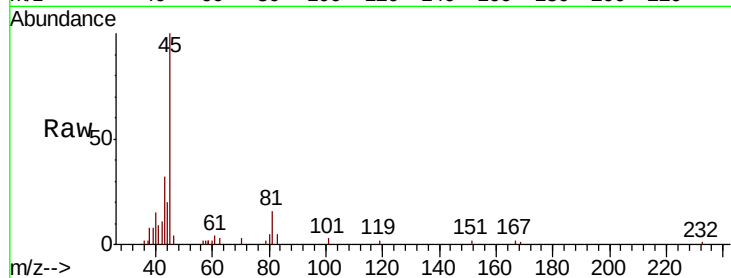
58 264.5 2.0 3.0#

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#20

Methylene Chloride

Concen: 0.331 ppbv

RT: 4.43 min Scan# 463

Delta R.T. 0.01 min

Lab File: VL032665.D

Acq: 19 Oct 2018 2:26

Tgt Ion: 84 Resp: 21628

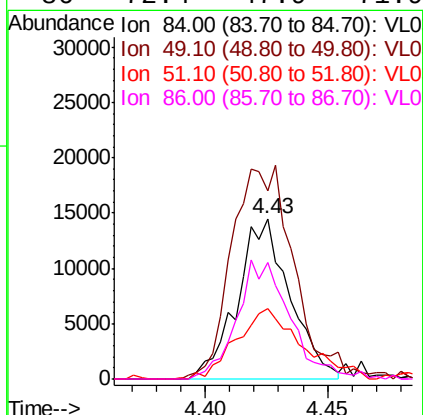
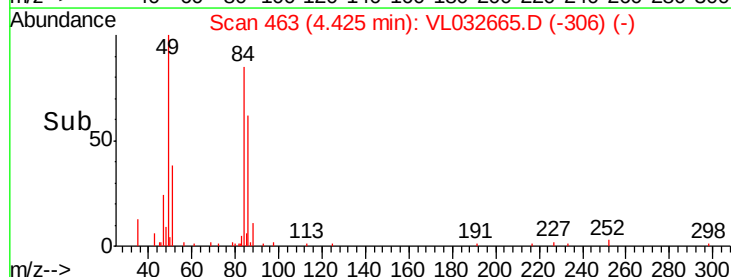
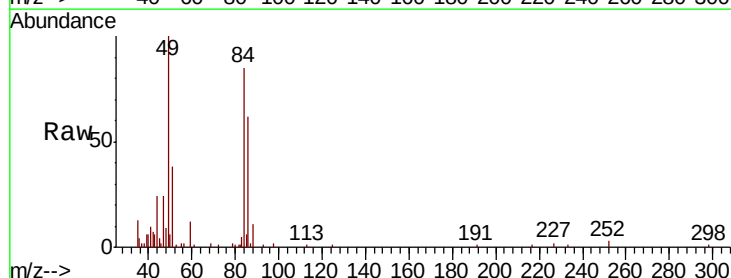
Ion Ratio Lower Upper

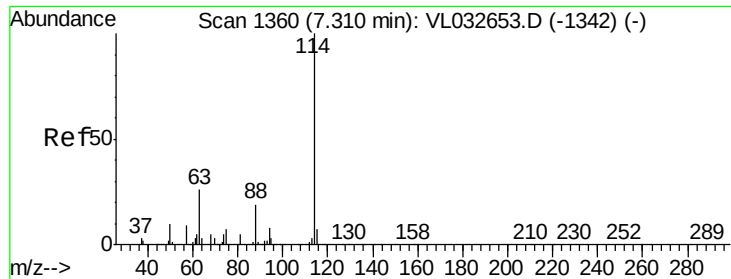
84 100

49 115.3 113.5 170.3

51 44.2 34.8 52.2

86 72.4 47.9 71.9#





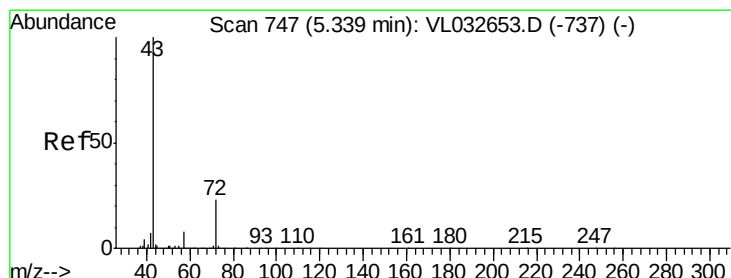
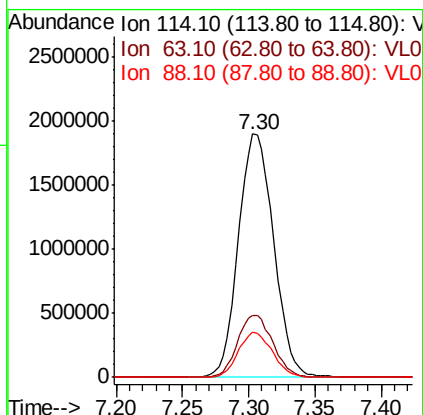
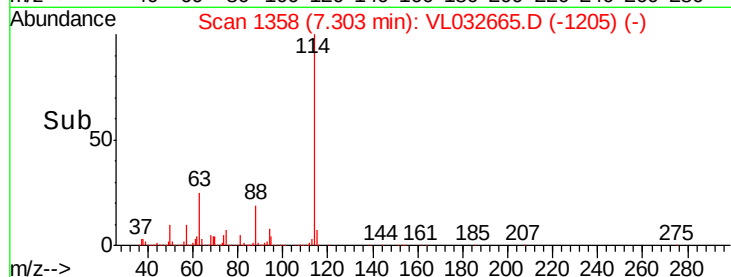
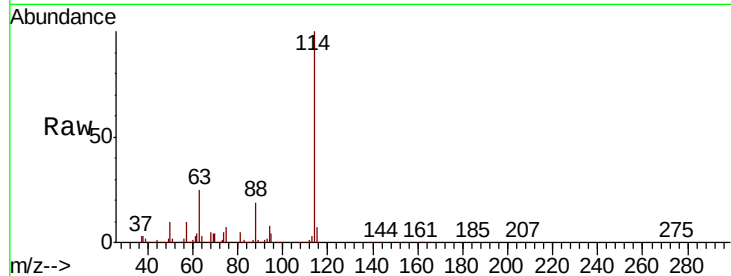
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1358
 Delta R.T. -0.01 min
 Lab File: VL032665.D
 Acq: 19 Oct 2018 2:26

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1DUP

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.6	21.7	32.5
88	18.1	14.9	22.3

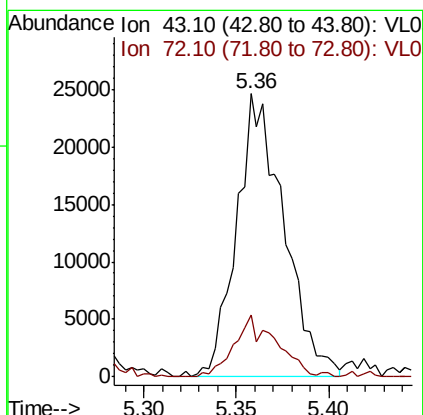
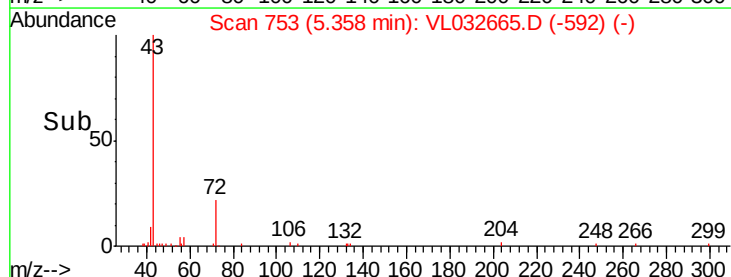
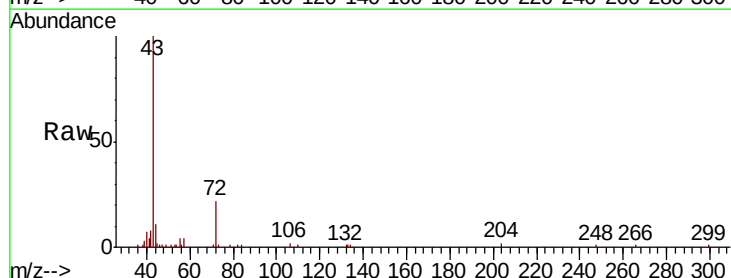
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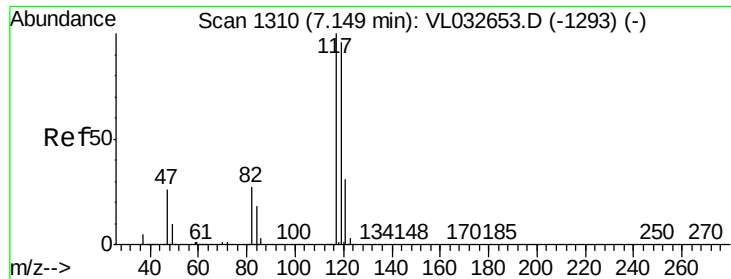
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#34
 2-Butanone
 Concen: 0.232 ppbv m
 RT: 5.36 min Scan# 753
 Delta R.T. 0.02 min
 Lab File: VL032665.D
 Acq: 19 Oct 2018 2:26

Tgt Ion	Ratio	Lower	Upper
43	100		
72	19.6	18.6	27.8





#35

Carbon Tetrachloride

Concen: 0.083 ppbv m

RT: 7.15 min Scan# 1310

Delta R.T. -0.00 min

Lab File: VL032665.D

Acq: 19 Oct 2018 2:26

Instrument :

MSVOA_L

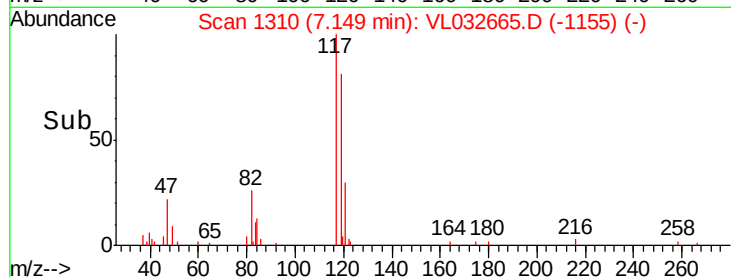
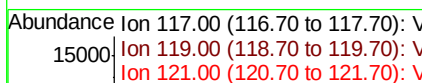
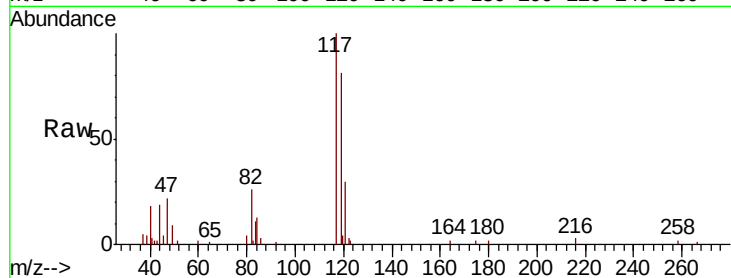
ClientSampleId :

AA-1DUP

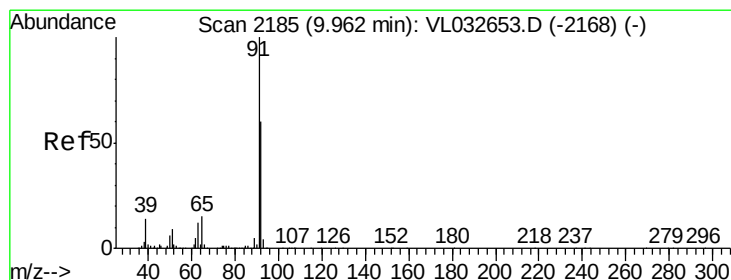
Tot Ion:	117	Resp:	20633
Ion Ratio	Lower	Upper	
117	100		
119	80.5	75.7	113.5
121	30.2	24.7	37.1

Manual Integrations
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Time-->



#53

Toluene

Concen: 0.172 ppbv m

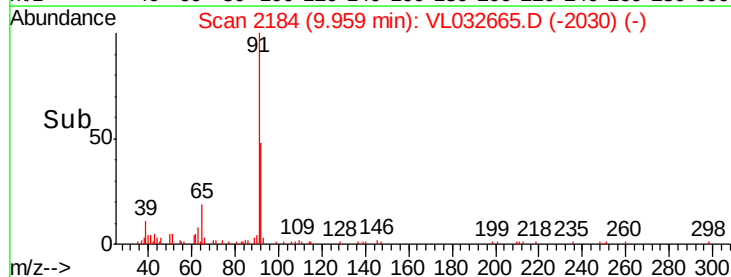
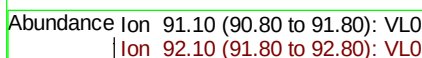
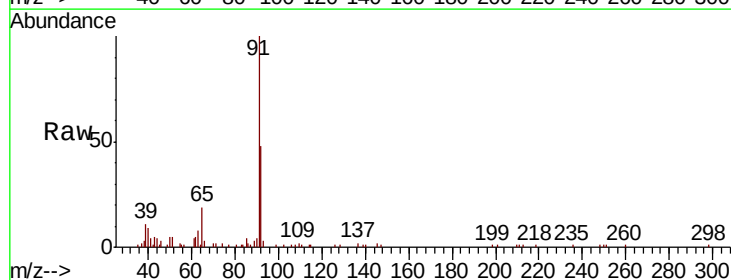
RT: 9.96 min Scan# 2184

Delta R.T. -0.00 min

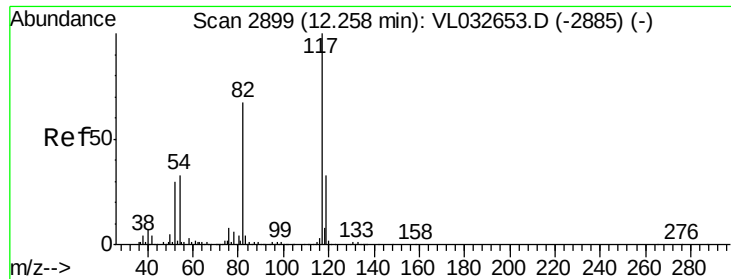
Lab File: VL032665.D

Acq: 19 Oct 2018 2:26

Tgt Ion:	91	Resp:	56349
Ion Ratio	Lower	Upper	
91	100		
92	0.0	48.4	72.6#



Time-->



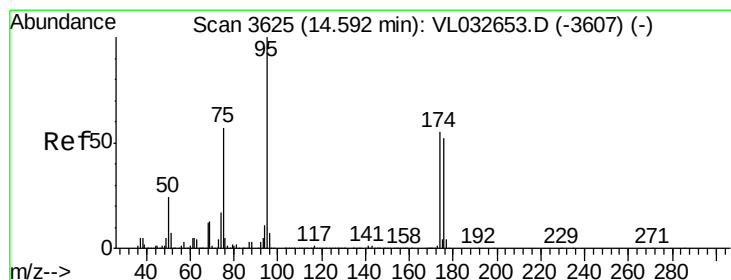
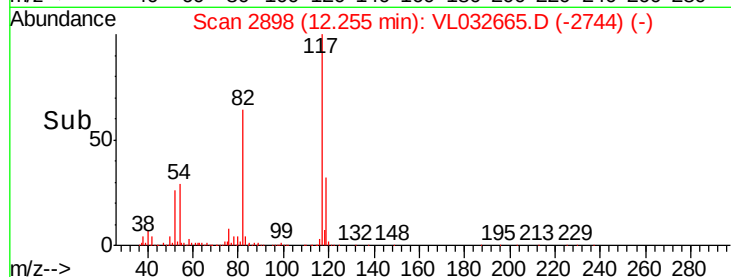
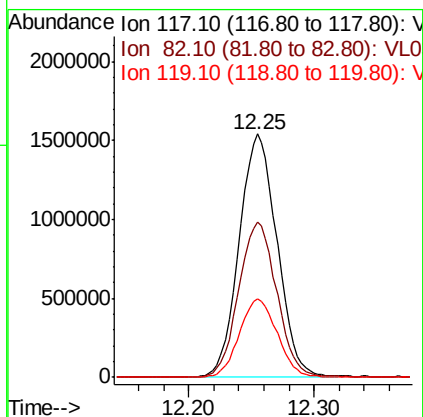
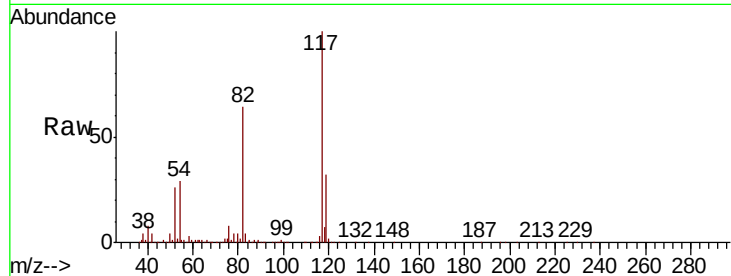
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2898
Delta R.T. -0.00 min
Lab File: VL032665.D
Acq: 19 Oct 2018 2:26

Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

Tot Ion:117 Resp: 3239054
Ion Ratio Lower Upper
117 100
82 64.7 52.7 79.1
119 32.4 26.7 40.1

Manual Integrations
APPROVED

MMDadoda
10/24/2018 12:05:12 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 9.847 ppbv
RT: 14.59 min Scan# 3625
Delta R.T. -0.00 min
Lab File: VL032665.D
Acq: 19 Oct 2018 2:26

Tgt Ion: 95 Resp: 2374903
Ion Ratio Lower Upper
95 100
174 62.6 46.0 69.0
175 4.5 3.4 5.0

