

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110718\
 Data File : VL032725.D
 Acq On : 7 Nov 2018 20:20
 Operator : SY/AP
 Sample : J5823-07
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-01

Manual Integrations
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 11/12/2018 12:30:13 PM

Quant Time: Nov 12 02:17:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 25 2018
 QLast Update : Thu Oct 25 05:15:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1364626	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3336582	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3220446	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene		14.59	95	2458383	10.25	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.50%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	39727	0.286	ppbv	97
3) Chlorodifluoromethane	3.02	51	45828m	0.429	ppbv	
4) Chloromethane	3.18	50	28232	0.473	ppbv	93
9) Propene	3.06	41	140853m	3.207	ppbv	
11) Trichlorofluoromethane	4.02	101	41580	0.229	ppbv	100
13) Ethanol	3.66	45	117588	9.368	ppbv	99
15) Acetone	3.91	43	749286m	5.946	ppbv	
19) Isopropyl Alcohol	4.05	45	79905	0.890	ppbv #	1
20) Methylene Chloride	4.42	84	93334	1.459	ppbv	95
26) Hexane	5.79	57	589198	4.293	ppbv #	47
30) Cyclohexane	7.27	84	15431m	0.142	ppbv	
34) 2-Butanone	5.35	43	85761	0.479	ppbv	99
35) Carbon Tetrachloride	7.15	117	20640m	0.087	ppbv	
36) Benzene	7.01	78	145690	0.538	ppbv	99
44) 2,2,4-Trimethylpentane	8.01	57	118124m	0.255	ppbv	
52) Tetrachloroethene	11.39	164	7550m	0.080	ppbv	
53) Toluene	9.96	91	3054128	9.833	ppbv	98
58) Ethyl Benzene	12.87	91	43077m	0.115	ppbv	
59) m/p-Xylene	13.13	91	127971m	0.384	ppbv	
60) o-Xylene	13.86	91	46522m	0.145	ppbv	
74) 1,2,4-Trimethylbenzene	16.94	105	65643	0.184	ppbv #	77

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

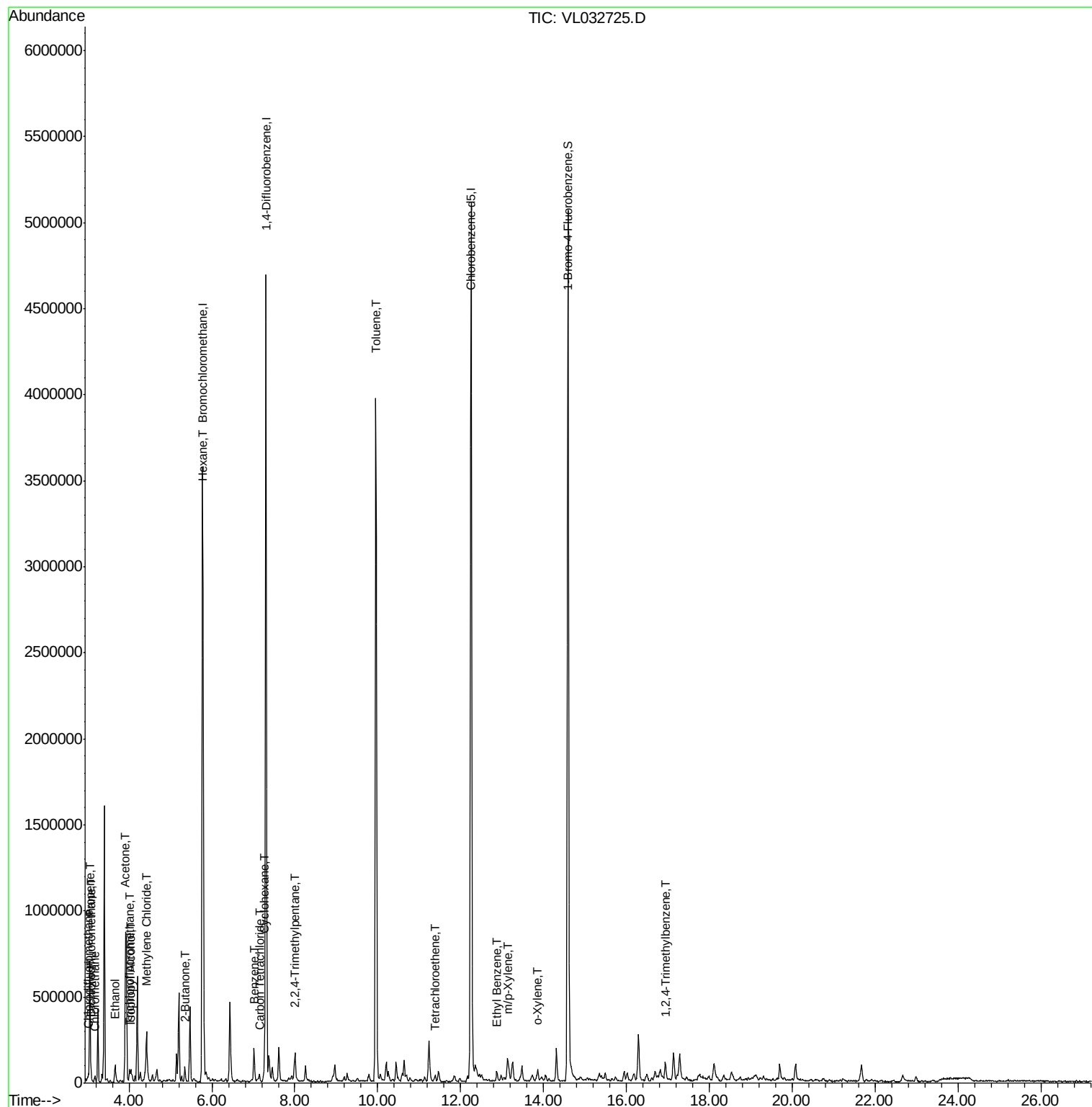
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL110718\
Data File : VL032725.D
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

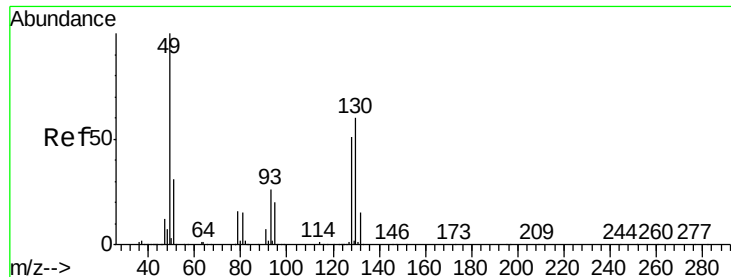
Instrument :
MSVOA_L
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AA-01

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Quant Time: Nov 12 02:17:27 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct
QLast Update : Thu Oct 25 05:15:43 2018
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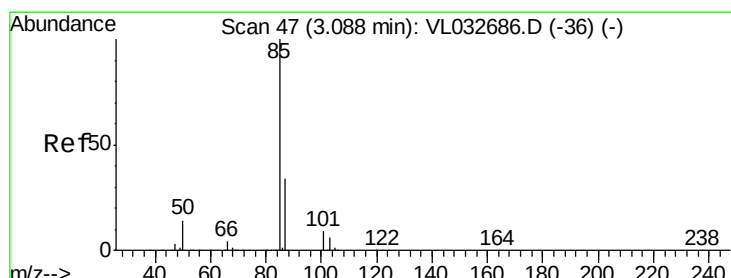
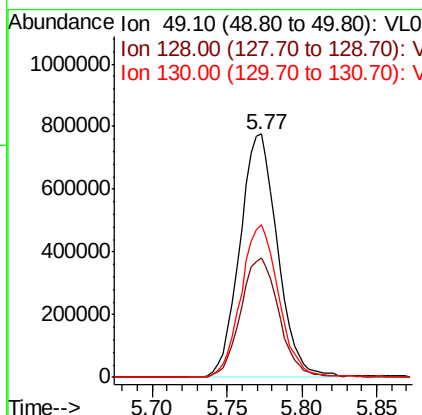
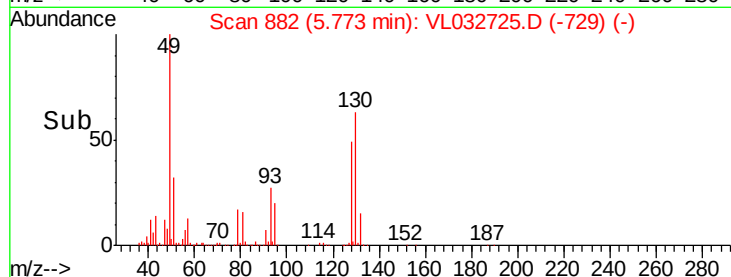
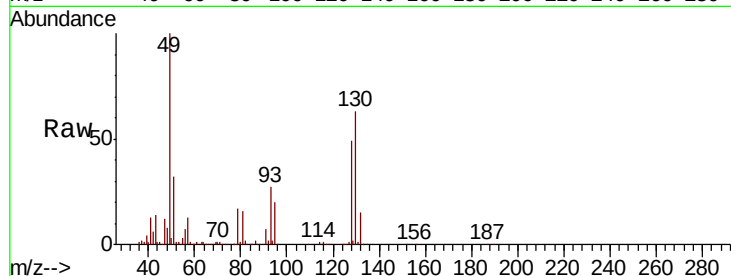
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.77 min Scan# 882
 Delta R.T. -0.01 min
 Lab File: VL032725.D
 Acq: 7 Nov 2018 20:20

Instrument :
 MSVOA_L
 ClientSampleID :
 AA-01

Tot Ion	Ratio	Lower	Upper
49	100		
128	50.4	22.3	66.8
130	63.4	28.4	85.3

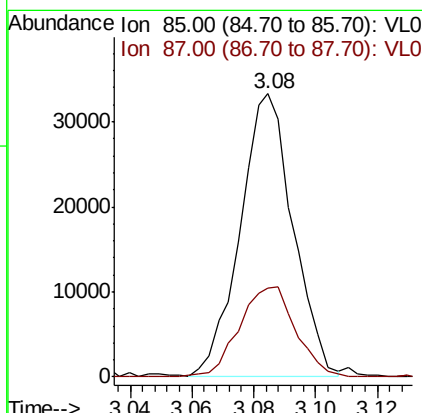
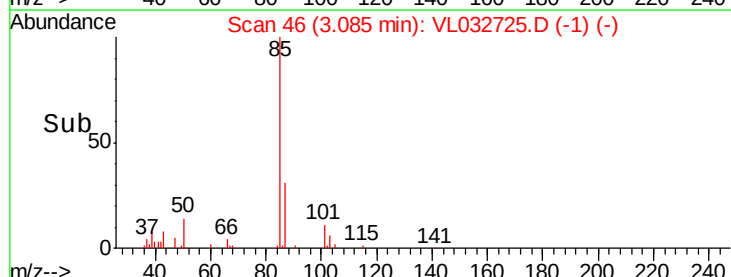
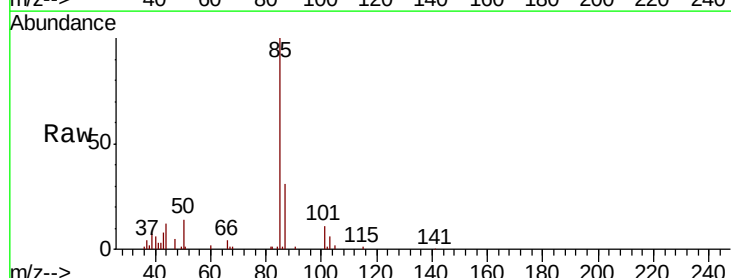
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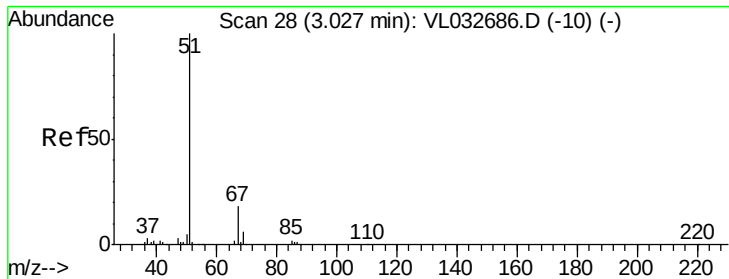
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#2
 Dichlorodifluoromethane
 Concen: 0.286 ppbv
 RT: 3.08 min Scan# 46
 Delta R.T. -0.00 min
 Lab File: VL032725.D
 Acq: 7 Nov 2018 20:20

Tgt Ion	Ratio	Lower	Upper
85	100		
87	30.8	26.2	39.2





#3

Chlorodifluoromethane

Concen: 0.429 ppbv

RT: 3.02 min Scan# 26

Delta R.T. -0.00 min

Lab File: VL032725.D

Acq: 7 Nov 2018 20:20

Instrument :

MSVOA_L

ClientSampled :

AA-01

Tot Ion: 51 Resp: 45828

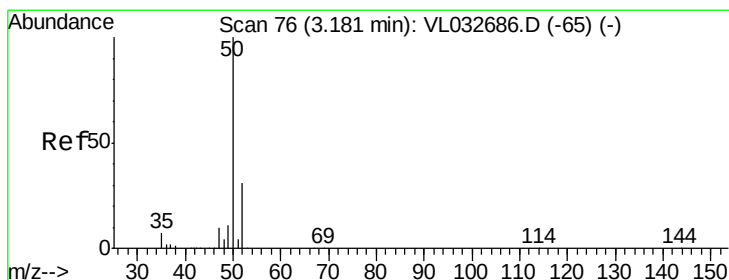
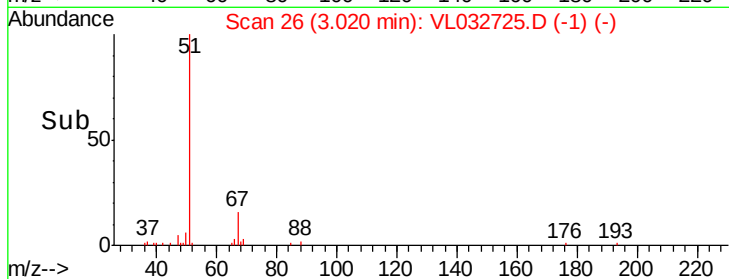
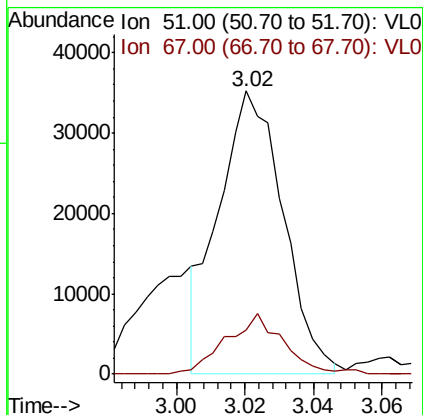
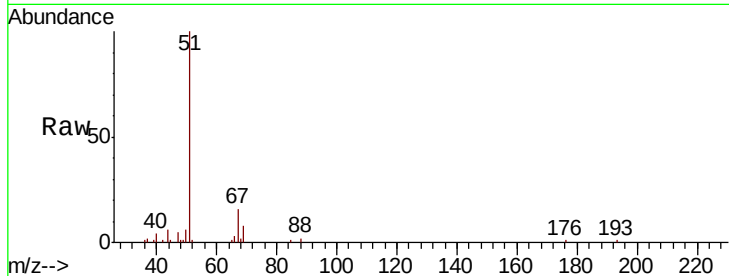
Ion Ratio Lower Upper

51 100

67 19.2 15.2 22.8

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#4

Chloromethane

Concen: 0.473 ppbv

RT: 3.18 min Scan# 77

Delta R.T. 0.01 min

Lab File: VL032725.D

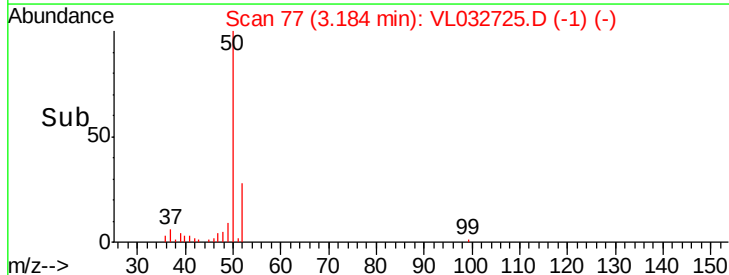
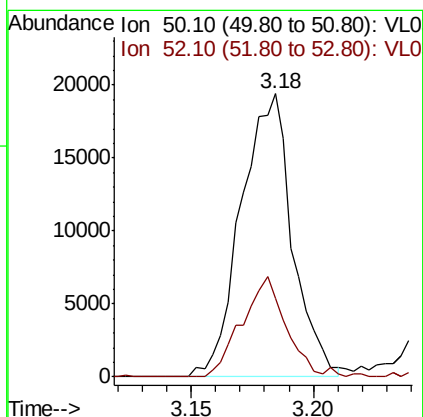
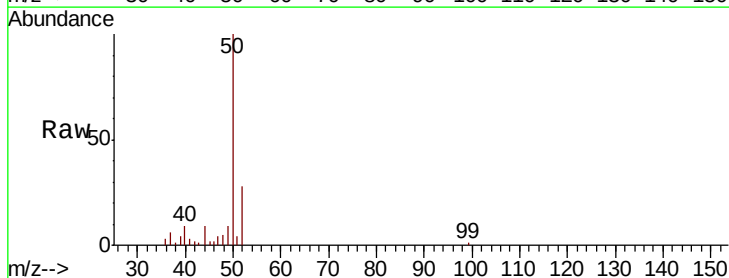
Acq: 7 Nov 2018 20:20

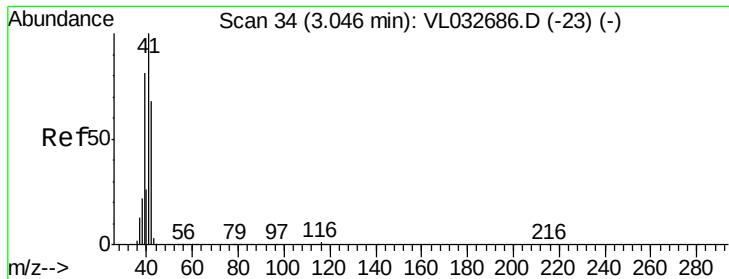
Tgt Ion: 50 Resp: 28232

Ion Ratio Lower Upper

50 100

52 28.4 25.9 38.9





#9

Propene

Concen: 3.207 ppbv m

RT: 3.06 min Scan# 38

Delta R.T. 0.02 min

Lab File: VL032725.D

Acq: 7 Nov 2018 20:20

Instrument :

MSVOA_L

ClientSampled :

AA-01

Tot Ion: 41 Resp: 140853

Ion Ratio Lower Upper

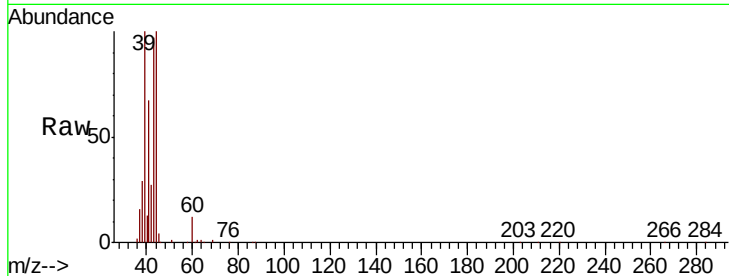
41 100

42 51.3 55.4 83.0#

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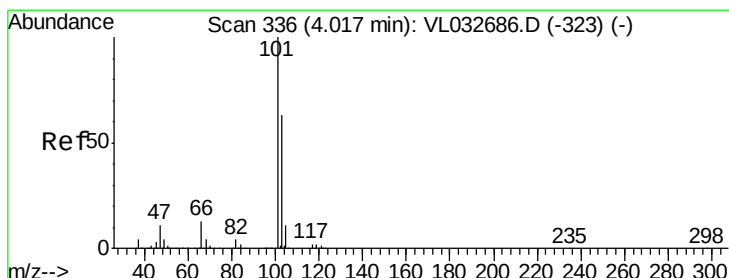
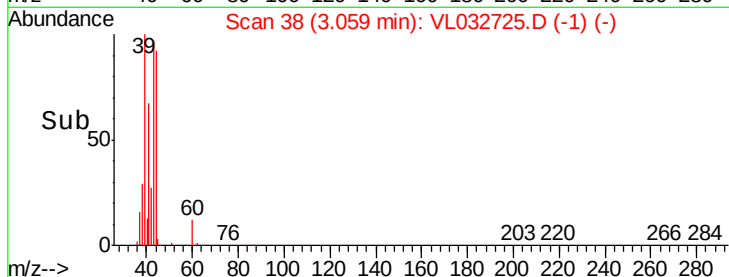
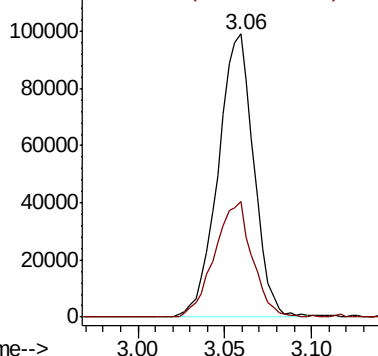
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.229 ppbv

RT: 4.02 min Scan# 336

Delta R.T. 0.00 min

Lab File: VL032725.D

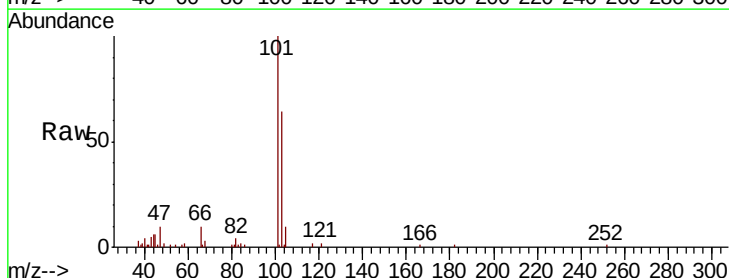
Acq: 7 Nov 2018 20:20

Tgt Ion: 101 Resp: 41580

Ion Ratio Lower Upper

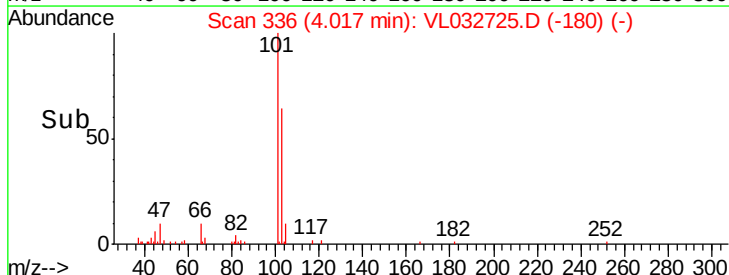
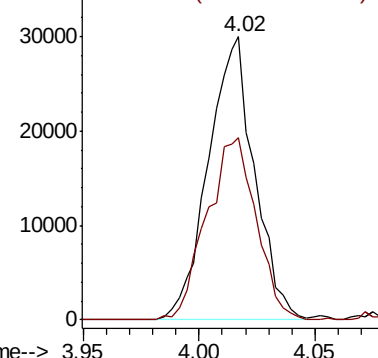
101 100

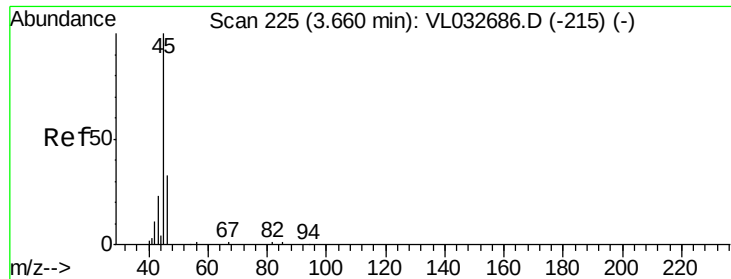
103 64.2 51.4 77.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





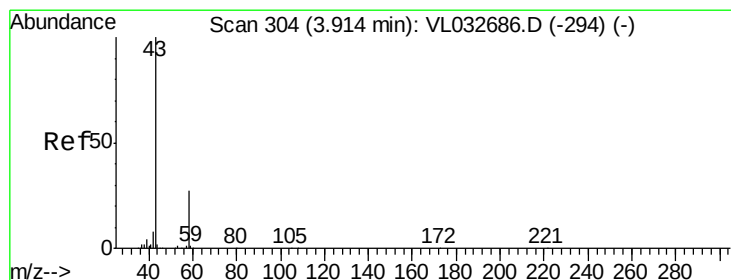
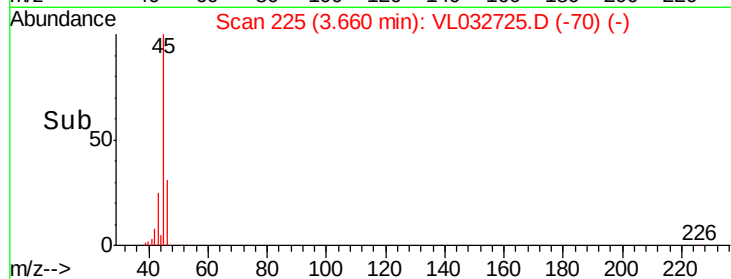
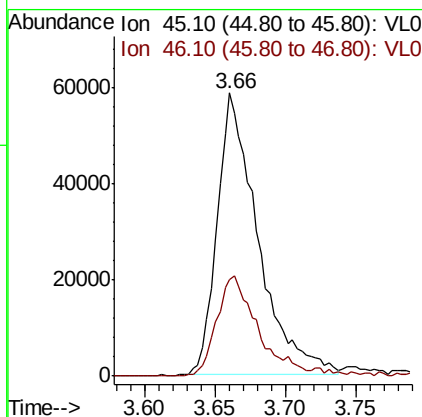
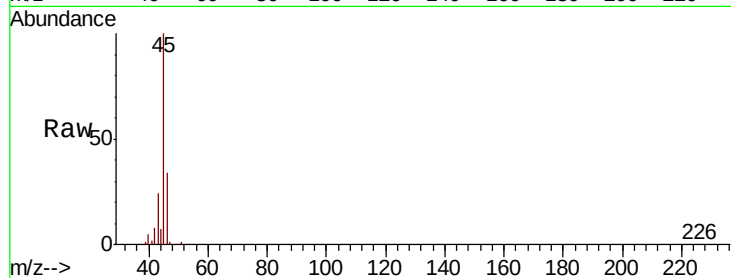
#13
Ethanol
Concen: 9.368 ppbv
RT: 3.66 min Scan# 225
Delta R.T. -0.00 min
Lab File: VL032725.D
Acq: 7 Nov 2018 20:20

Instrument :
MSVOA_L
ClientSampleId :
AA-01

Tot Ion	45	Resp	117588
Ion Ratio	100	Lower	Upper
45	100		
46	37.8	15.4	61.8

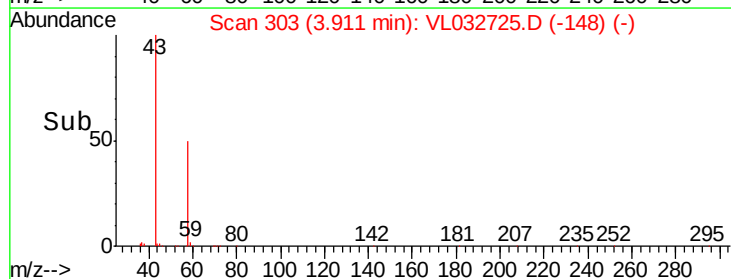
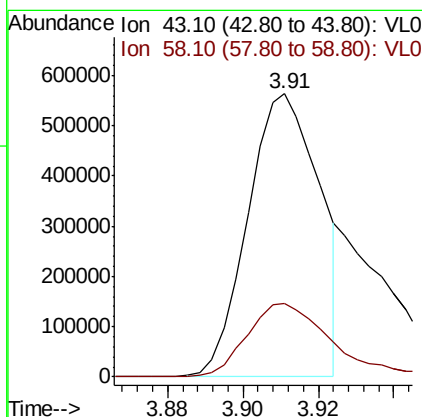
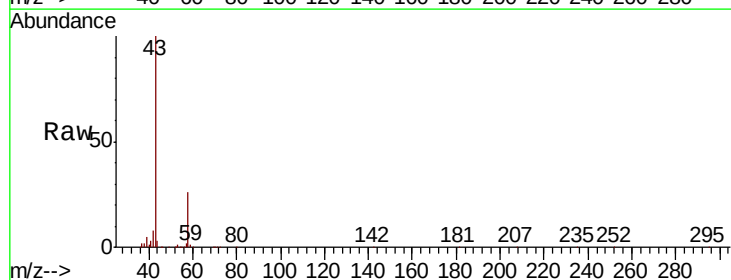
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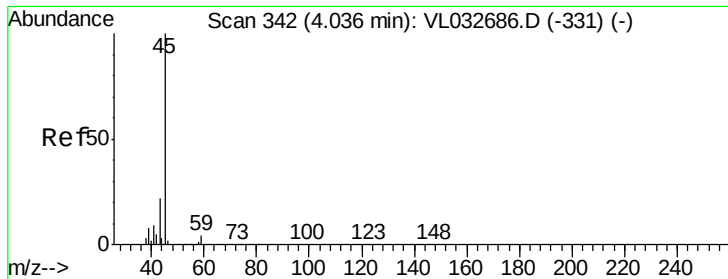
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#15
Acetone
Concen: 5.946 ppbv m
RT: 3.91 min Scan# 303
Delta R.T. -0.00 min
Lab File: VL032725.D
Acq: 7 Nov 2018 20:20

Tgt Ion	43	Resp	749286
Ion Ratio	100	Lower	Upper
43	100		
58	31.0	22.1	33.1





#19

Isopropyl Alcohol

Concen: 0.890 ppbv

RT: 4.05 min Scan# 346

Delta R.T. 0.02 min

Lab File: VL032725.D

Acq: 7 Nov 2018 20:20

Instrument :

MSVOA_L

ClientSampleId :

AA-01

Tot Ion: 45 Resp: 79905

Ion Ratio Lower Upper

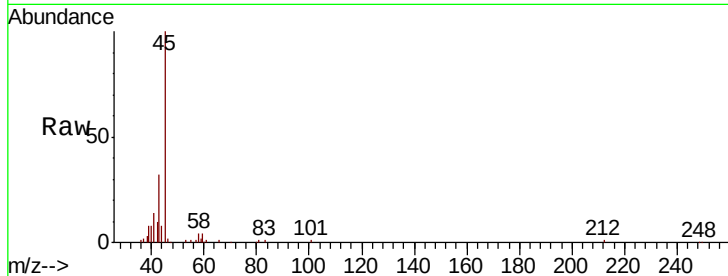
45 100

58 291.8 2.0 3.0#

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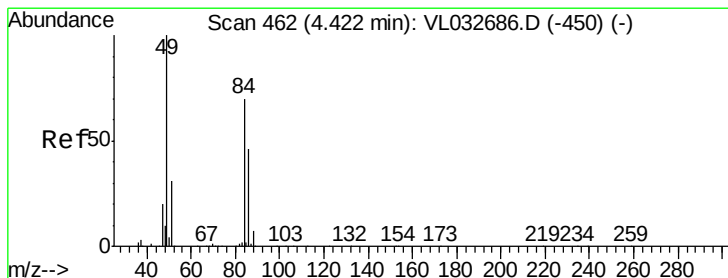
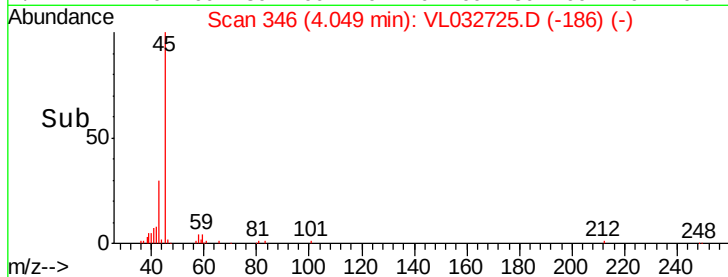
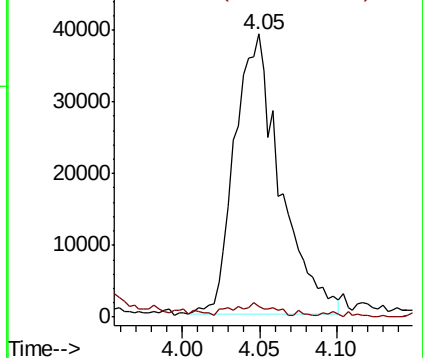
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 1.459 ppbv

RT: 4.42 min Scan# 461

Delta R.T. -0.00 min

Lab File: VL032725.D

Acq: 7 Nov 2018 20:20

Tgt Ion: 84 Resp: 93334

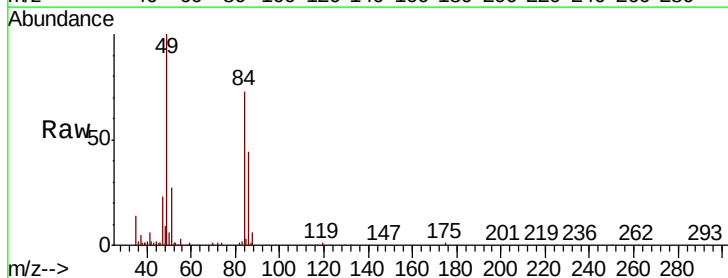
Ion Ratio Lower Upper

84 100

49 137.3 113.5 170.3

51 35.5 34.8 52.2

86 61.1 47.9 71.9

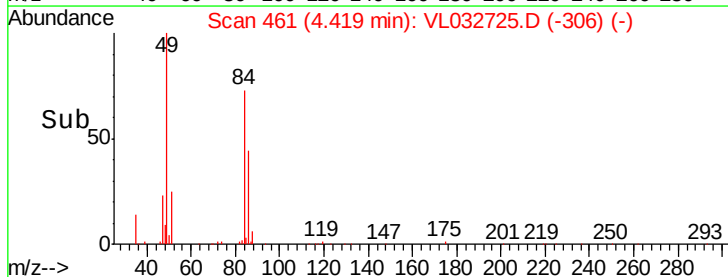
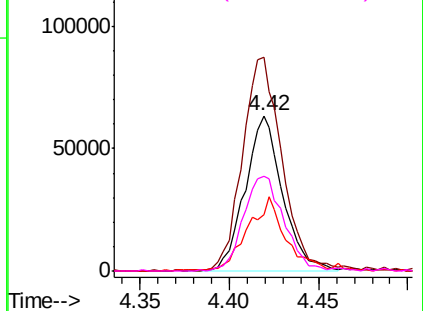


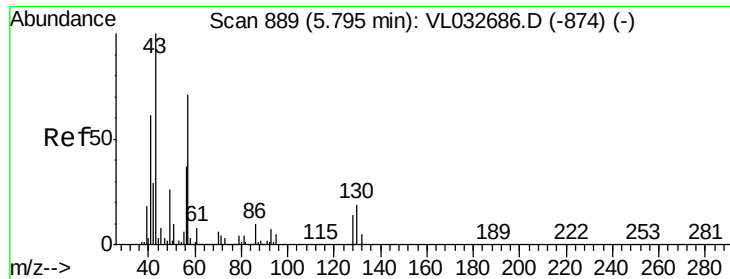
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





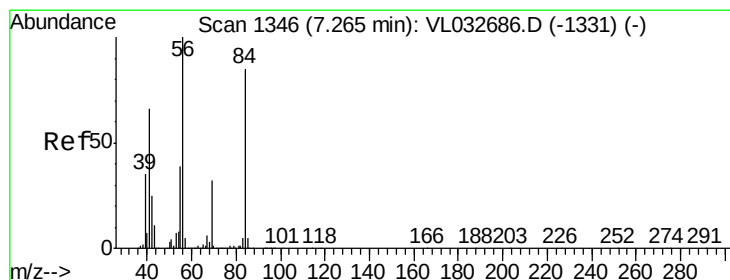
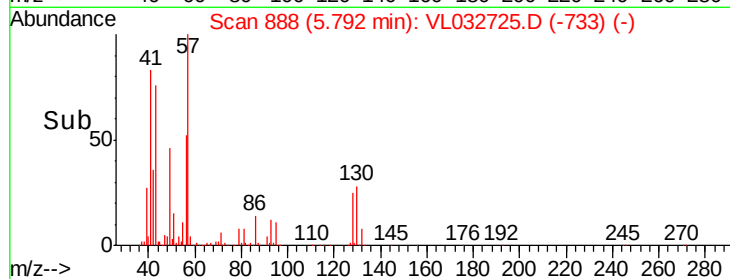
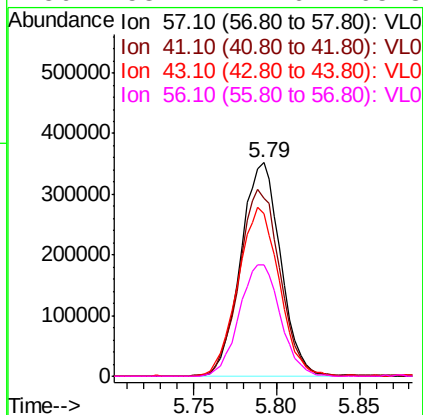
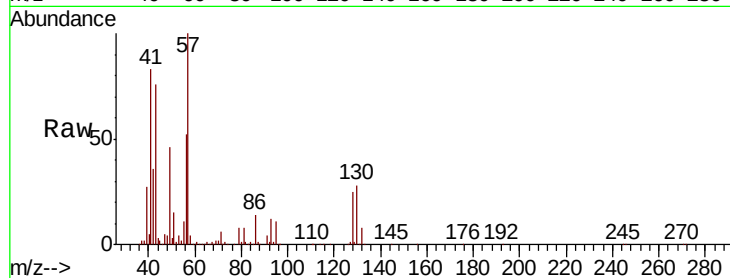
#26
Hexane
Concen: 4.293 ppbv
RT: 5.79 min Scan# 888
Delta R.T. -0.00 min
Lab File: VL032725.D
Acq: 7 Nov 2018 20:20

Instrument :
MSVOA_L
ClientSampled :
AA-01

Tot Ion	Ratio	Lower	Upper
57	100		
41	90.2	67.4	101.0
43	82.3	171.9	257.9#
56	53.7	42.6	63.8

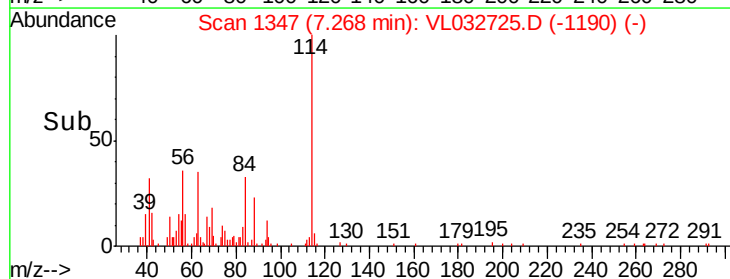
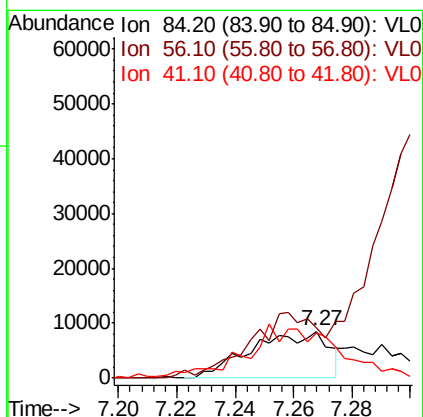
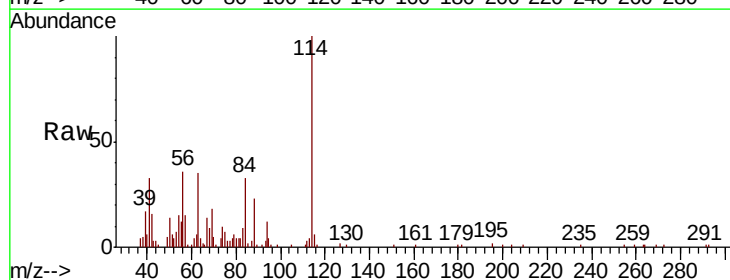
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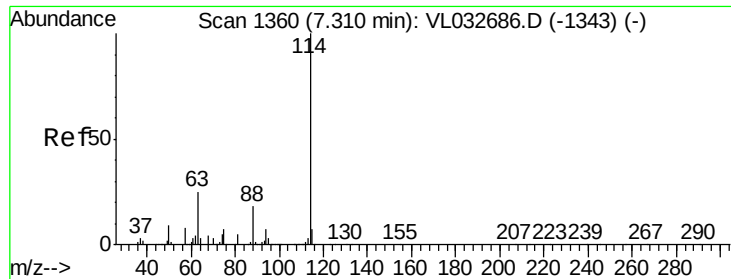
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#30
Cyclohexane
Concen: 0.142 ppbv m
RT: 7.27 min Scan# 1347
Delta R.T. 0.01 min
Lab File: VL032725.D
Acq: 7 Nov 2018 20:20

Tgt Ion	Ratio	Lower	Upper
84	100		
56	0.0	108.3	162.5#
41	140.1	64.8	97.2#





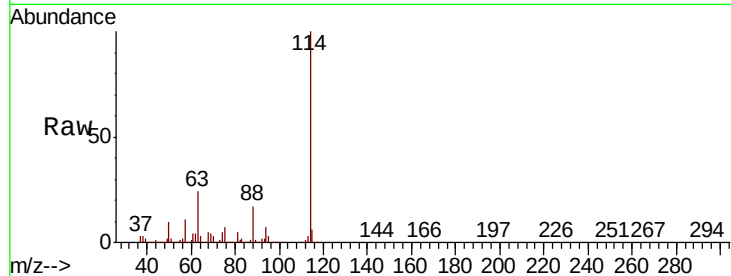
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1358
 Delta R.T. -0.01 min
 Lab File: VL032725.D
 Acq: 7 Nov 2018 20:20

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-01

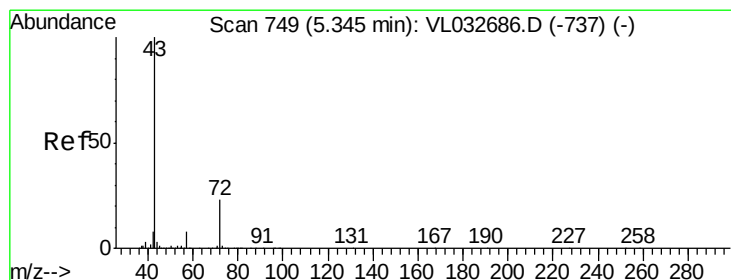
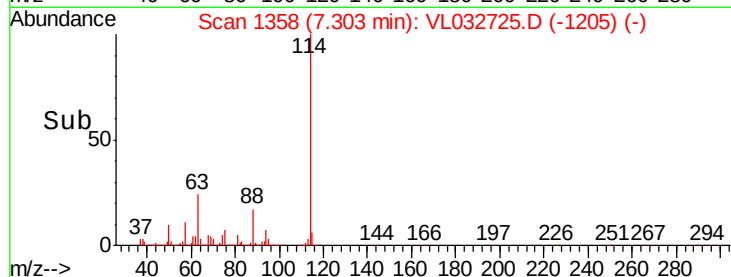
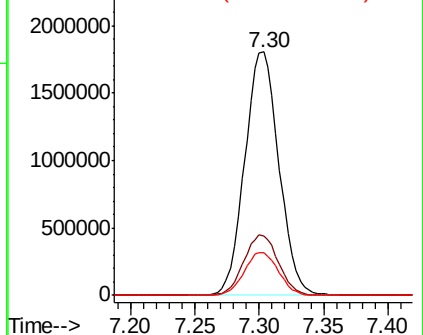
Tot Ion	Ratio	Lower	Upper
114	100		
63	25.1	21.7	32.5
88	17.6	14.9	22.3

Manual Integrations
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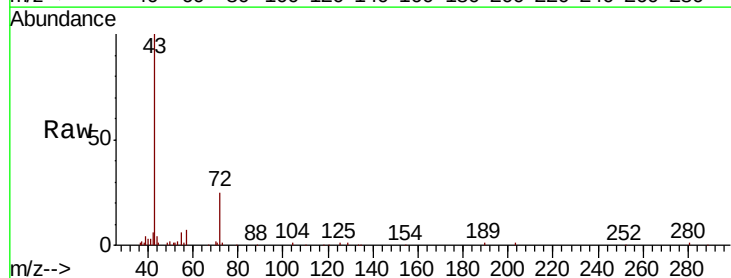


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

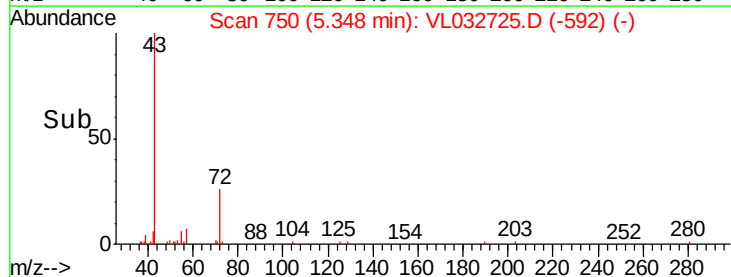
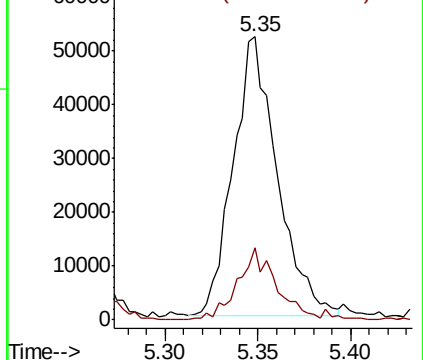


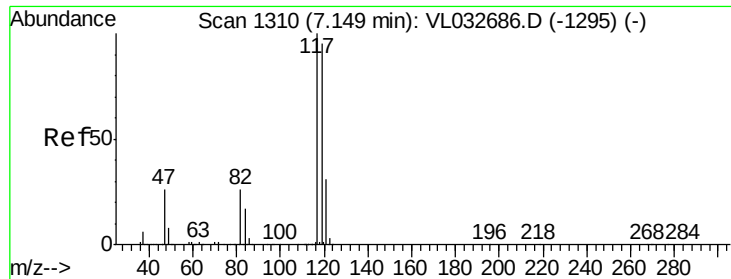
#34
 2-Butanone
 Concen: 0.479 ppbv
 RT: 5.35 min Scan# 750
 Delta R.T. 0.01 min
 Lab File: VL032725.D
 Acq: 7 Nov 2018 20:20

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.6	18.6	27.8



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.087 ppbv m

RT: 7.15 min Scan# 1309

Delta R.T. -0.00 min

Lab File: VL032725.D

Acq: 7 Nov 2018 20:20

Instrument :

MSVOA_L

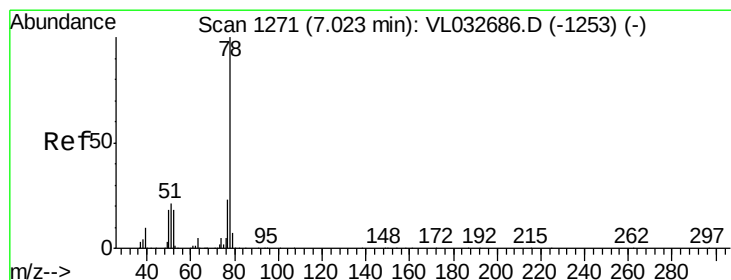
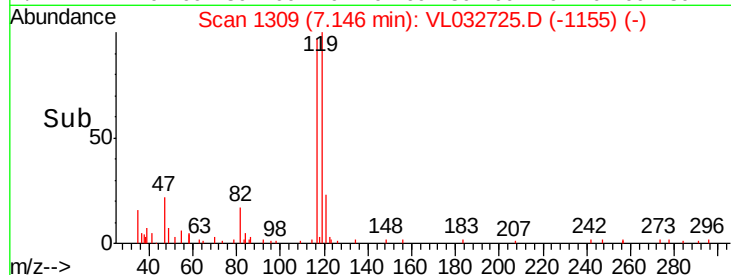
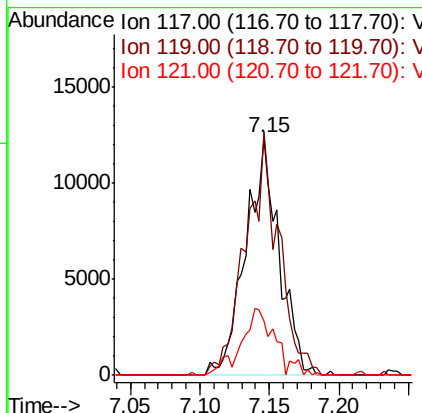
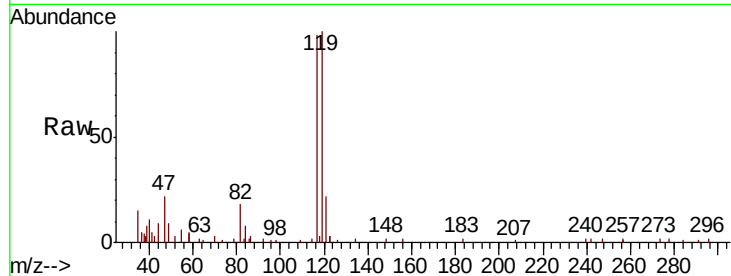
ClientSampleId :

AA-01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
117	100		20640		
119	102.4	75.7	113.5		
121	22.8	24.7	37.1#		

Manual Integrations
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#36

Benzene

Concen: 0.538 ppbv

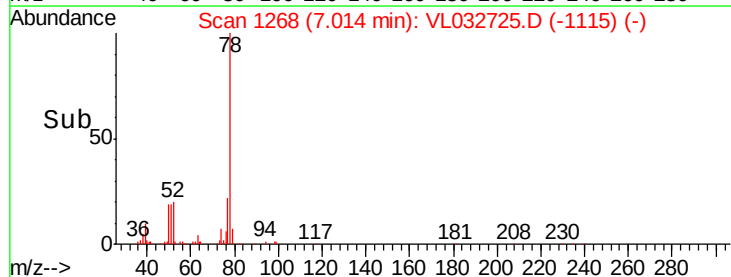
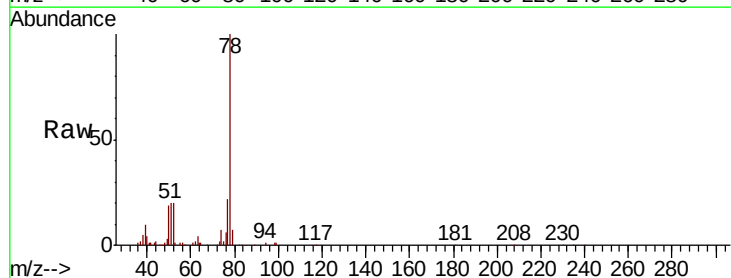
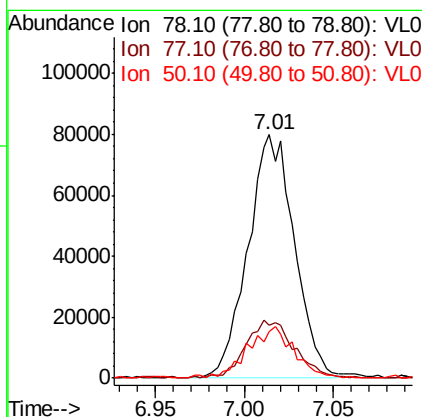
RT: 7.01 min Scan# 1268

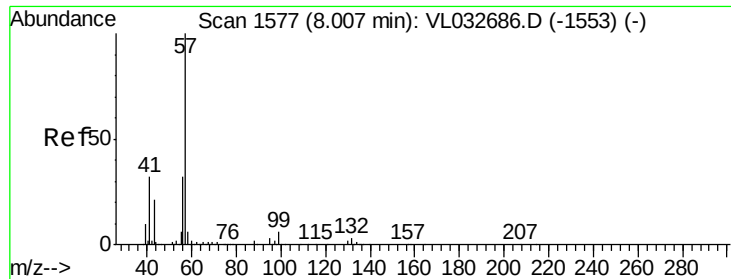
Delta R.T. -0.01 min

Lab File: VL032725.D

Acq: 7 Nov 2018 20:20

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
78	100		145690		
77	21.8	18.1	27.1		
50	18.6	15.1	22.7		





#44

2,2,4-Trimethylpentane

Concen: 0.255 ppbv m

RT: 8.01 min Scan# 1578

Delta R.T. 0.01 min

Lab File: VL032725.D

Acq: 7 Nov 2018 20:20

Instrument :

MSVOA_L

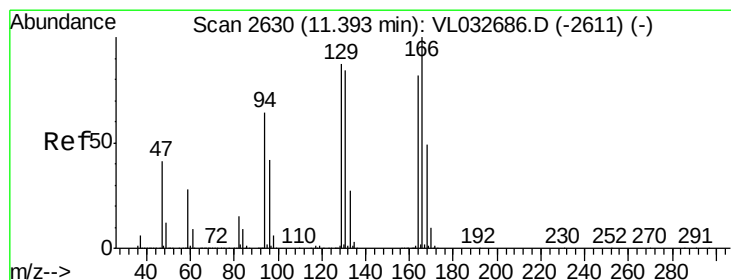
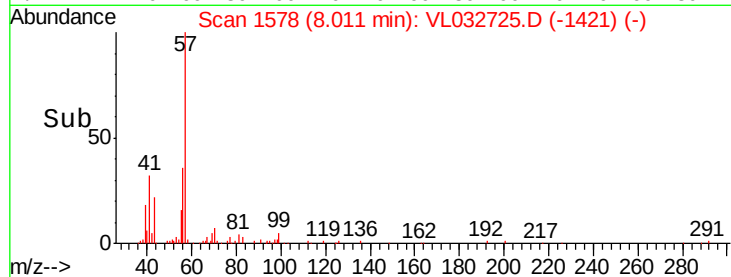
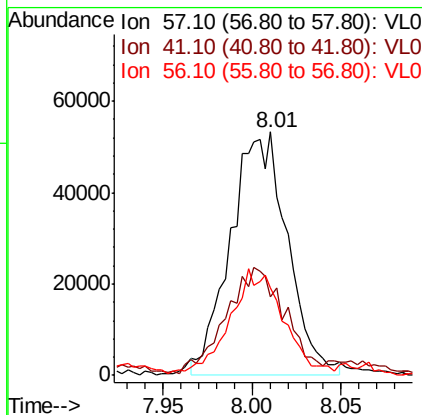
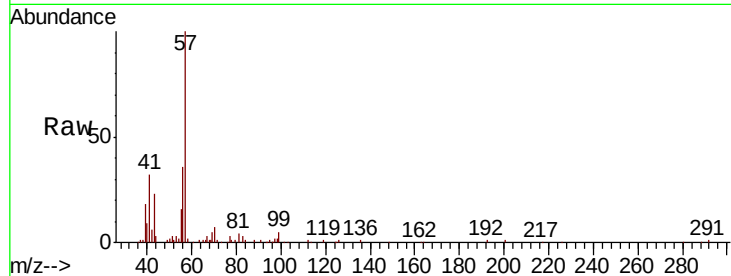
ClientSampled :

AA-01

Tot Ion:	57	Resp:	118124
Ion Ratio	Lower	Upper	
57	100		
41	50.7	24.7	37.1#
56	40.6	25.0	37.4#

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#52

Tetrachloroethene

Concen: 0.080 ppbv m

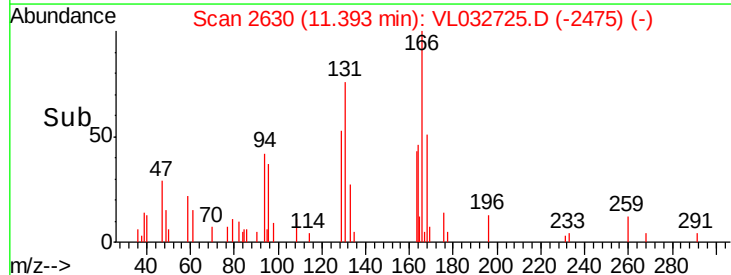
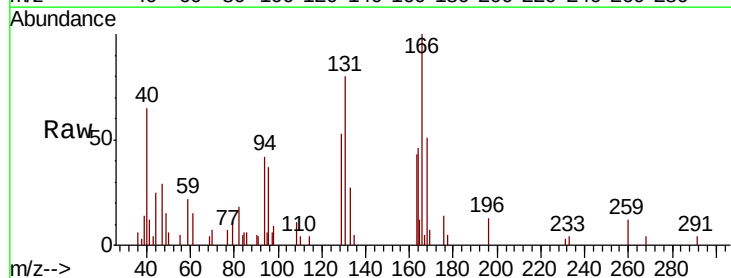
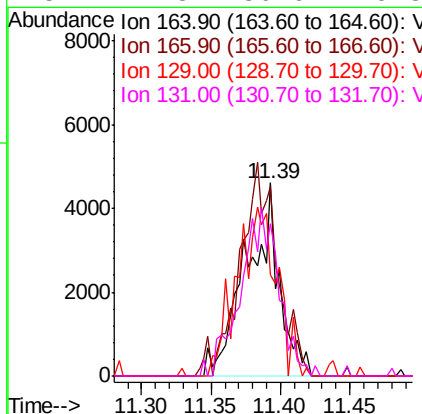
RT: 11.39 min Scan# 2630

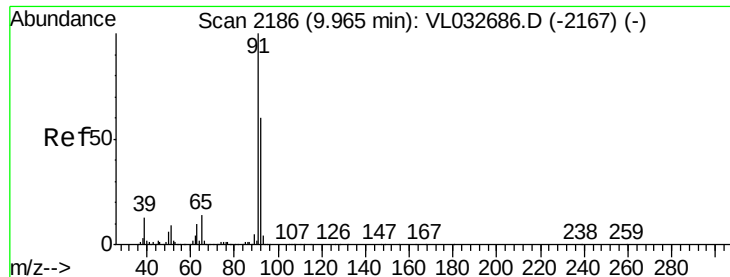
Delta R.T. -0.00 min

Lab File: VL032725.D

Acq: 7 Nov 2018 20:20

Tgt Ion:	164	Resp:	7550
Ion Ratio	Lower	Upper	
164	100		
166	217.4	100.5	150.7#
129	116.2	90.0	135.0
131	174.8	86.6	129.8#





#53

Toluene

Concen: 9.833 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. -0.01 min

Lab File: VL032725.D

Acq: 7 Nov 2018 20:20

Instrument :

MSVOA_L

ClientSampled :

AA-01

Tot Ion: 91 Resp: 3054128

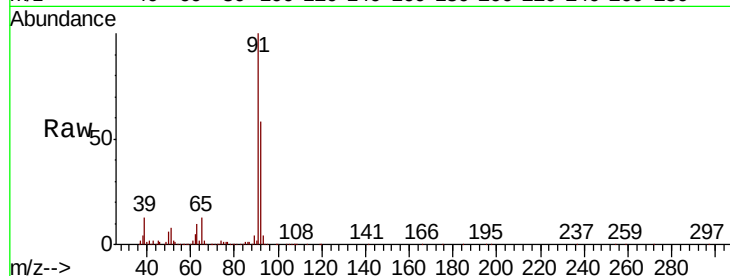
Ion Ratio Lower Upper

91 100

92 59.2 48.4 72.6

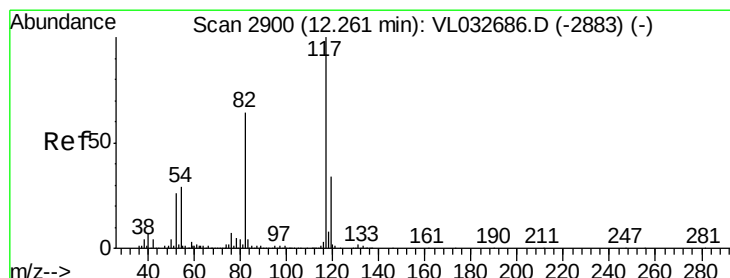
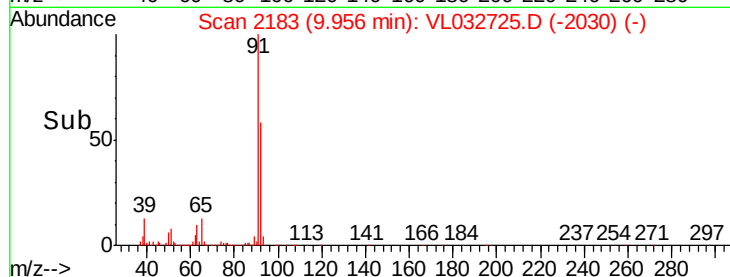
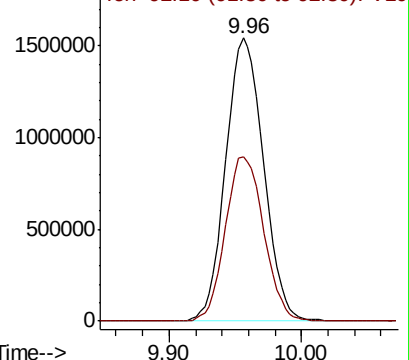
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2896

Delta R.T. -0.01 min

Lab File: VL032725.D

Acq: 7 Nov 2018 20:20

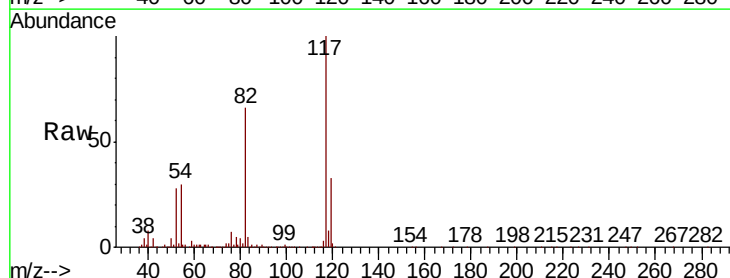
Tgt Ion: 117 Resp: 3220446

Ion Ratio Lower Upper

117 100

82 65.3 52.7 79.1

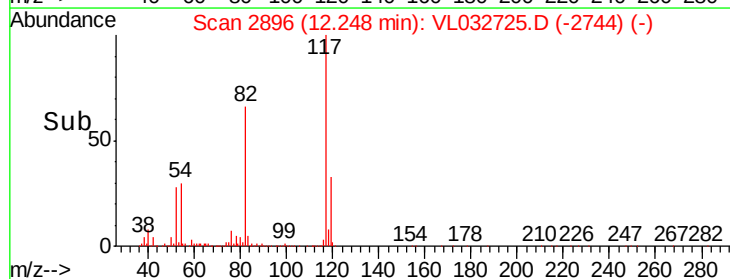
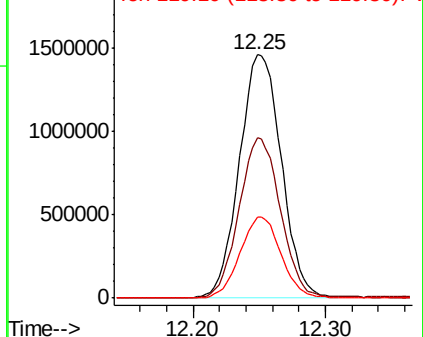
119 32.7 26.7 40.1

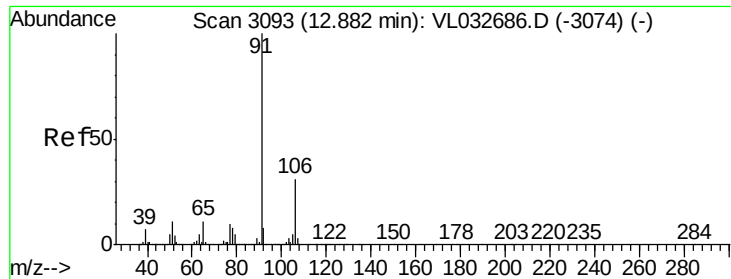


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#58

Ethyl Benzene

Concen: 0.115 ppbv m

RT: 12.87 min Scan# 3089

Delta R.T. -0.01 min

Lab File: VL032725.D

Acq: 7 Nov 2018 20:20

Instrument :

MSVOA_L

ClientSampled :

AA-01

Tot Ion: 91 Resp: 43077

Ion Ratio Lower Upper

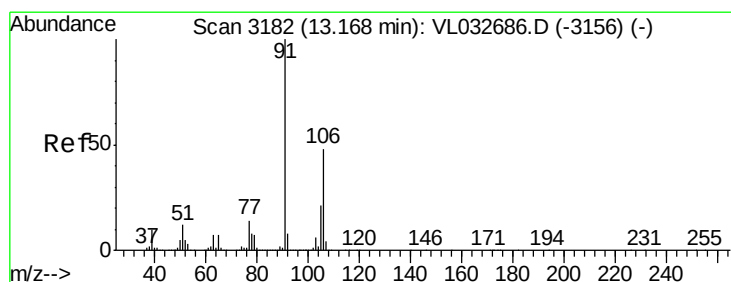
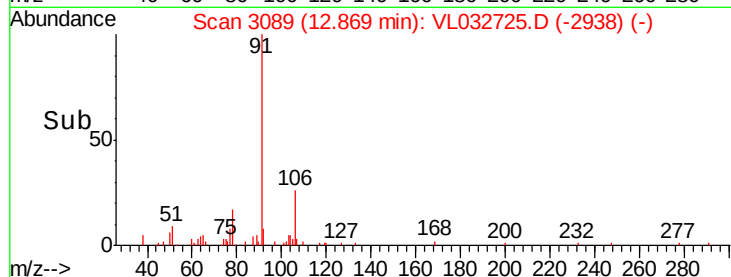
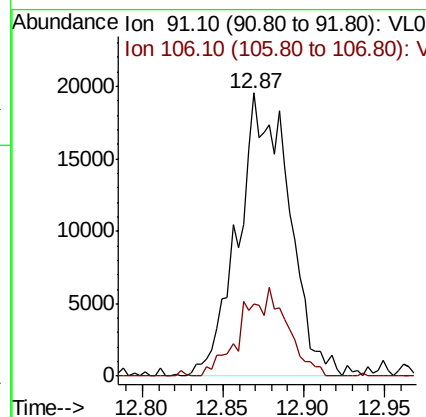
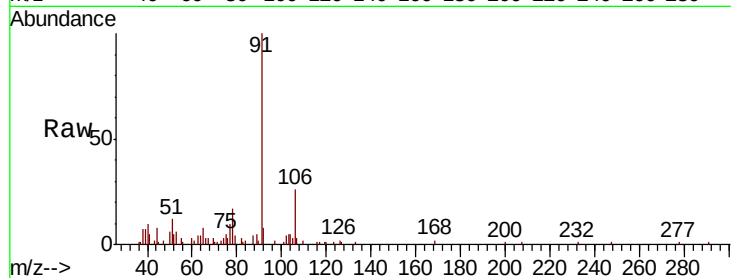
91 100

106 25.7 24.2 36.2

Manual Integrations
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#59

m/p-Xylene

Concen: 0.384 ppbv m

RT: 13.13 min Scan# 3171

Delta R.T. -0.04 min

Lab File: VL032725.D

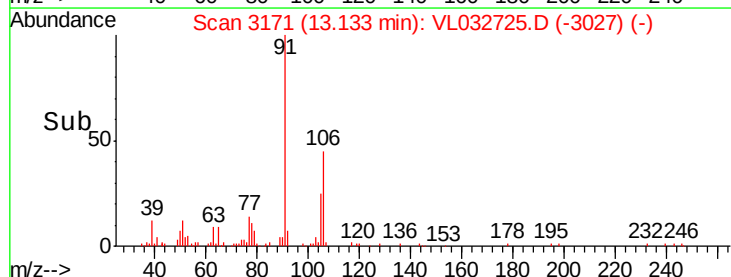
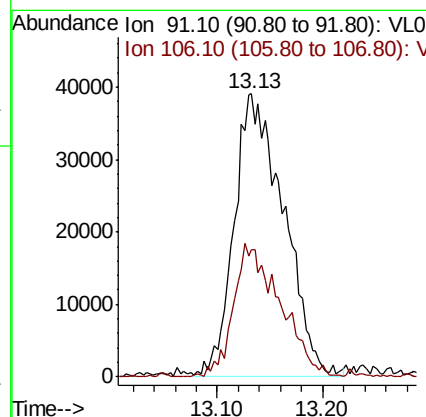
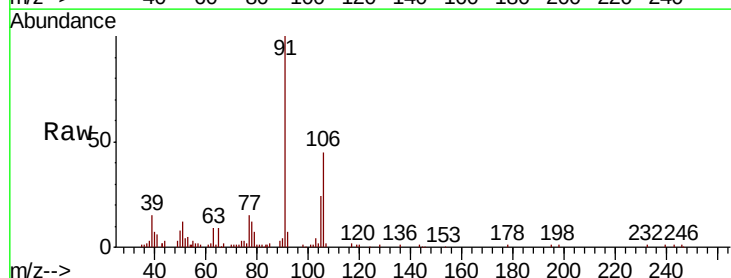
Acq: 7 Nov 2018 20:20

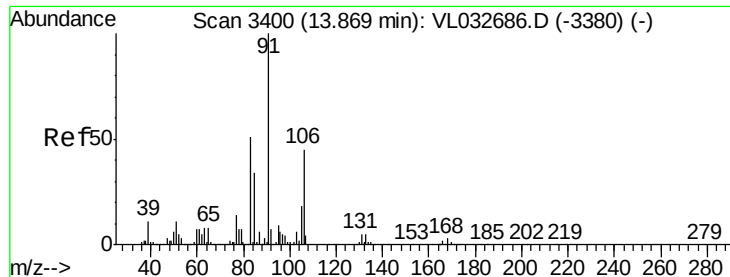
Tgt Ion: 91 Resp: 127971

Ion Ratio Lower Upper

91 100

106 0.0 35.9 53.9#





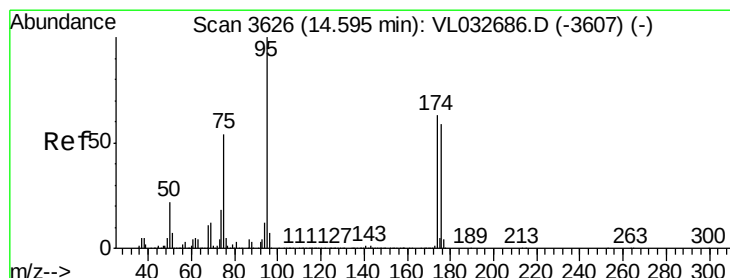
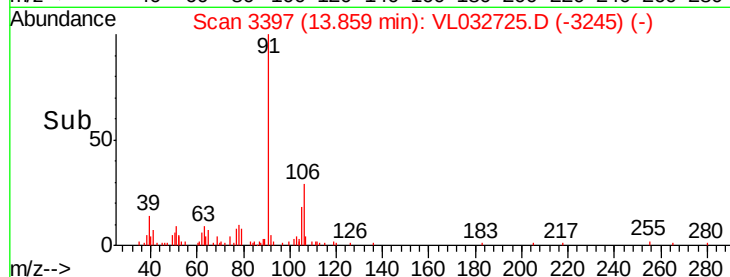
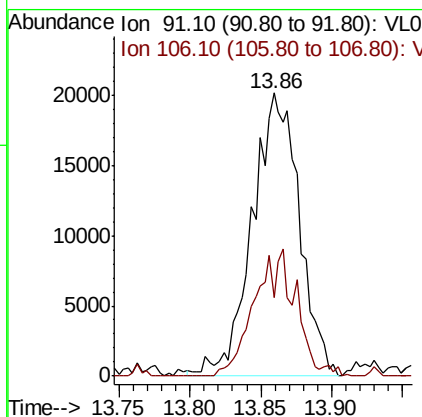
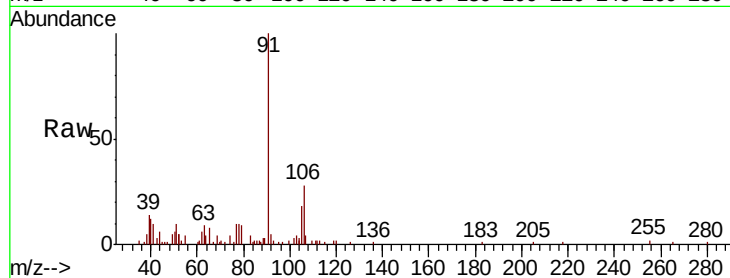
#60
o-Xylene
Concen: 0.145 ppbv m
RT: 13.86 min Scan# 3397
Delta R.T. -0.01 min
Lab File: VL032725.D
Acq: 7 Nov 2018 20:20

Instrument :
MSVOA_L
ClientSampled :
AA-01

Tot Ion: 91 Resp: 46522
Ion Ratio Lower Upper
91 100
106 0.0 22.1 66.1#

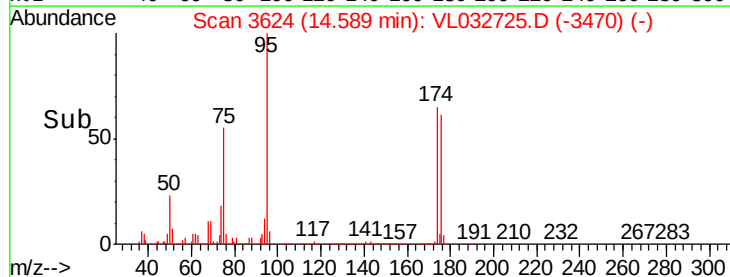
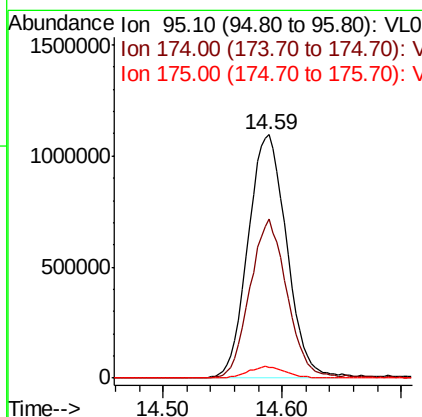
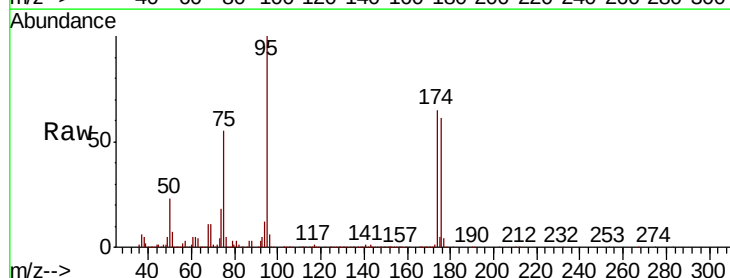
Manual Integrations
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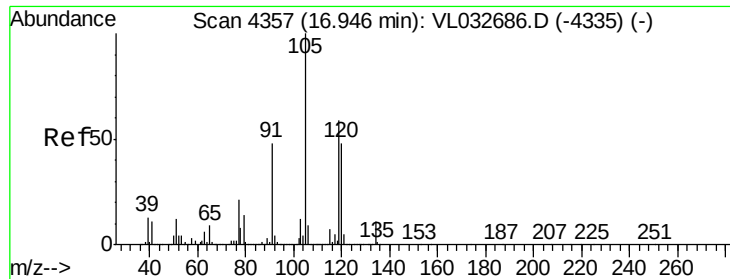
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.252 ppbv
RT: 14.59 min Scan# 3624
Delta R.T. -0.00 min
Lab File: VL032725.D
Acq: 7 Nov 2018 20:20

Tgt Ion: 95 Resp: 2458383
Ion Ratio Lower Upper
95 100
174 63.9 46.0 69.0
175 4.6 3.4 5.0





#74

1,2,4-Trimethylbenzene

Concen: 0.184 ppbv

RT: 16.94 min Scan# 4356

Delta R.T. -0.00 min

Lab File: VL032725.D

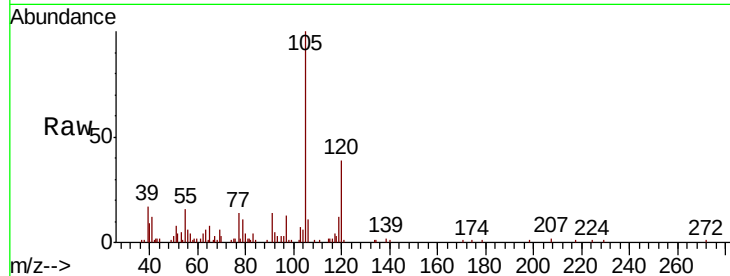
Acq: 7 Nov 2018 20:20

Instrument :

MSVOA_L

ClientSampleId :

AA-01



Tot Ion	Ratio	Lower	Upper
105	100		
120	39.8	35.8	53.8
91	13.8	33.2	49.8#
77	13.0	16.2	24.4#

Manual Integrations
APPROVED

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11/12/2018 12:30:13 PM

