

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082018\
 Data File : VL032416.D
 Acq On : 21 Aug 2018 9:35
 Operator : SY/AP
 Sample : J4576-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

MMDadoda
 8/22/2018 10:50:38 AM

Quant Time: Aug 22 05:11:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 1
 QLast Update : Wed Aug 15 14:58:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.80	49	1789735	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.34	114	3318747	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.30	117	3282537	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.63	95	2538421	10.14	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.04	51	56853m	0.34	ppbv	
4) Chloromethane	3.21	50	51318	0.52	ppbv	90
9) Propene	3.08	41	41252	0.58	ppbv	92
11) Trichlorofluoromethane	4.04	101	52955	0.26	ppbv	90
13) Ethanol	3.69	45	134362	7.37	ppbv	99
15) Acetone	3.94	43	652667	3.84	ppbv	99
17) tert-Butyl alcohol	4.42	59	14330m	0.50	ppbv	
19) Isopropyl Alcohol	4.07	45	61901	0.54	ppbv #	1
20) Methylene Chloride	4.45	84	27777m	0.43	ppbv	
26) Hexane	5.83	57	34660	0.21	ppbv #	68
34) 2-Butanone	5.38	43	59568m	0.26	ppbv	
35) Carbon Tetrachloride	7.19	117	17983m	0.09	ppbv	
36) Benzene	7.05	78	68110	0.24	ppbv #	96
43) Methyl Methacrylate	8.19	69	23900m	0.21	ppbv	
44) 2,2,4-Trimethylpentane	8.04	57	49291	0.10	ppbv #	48
52) Tetrachloroethene	11.43	164	5348m	0.06	ppbv	
53) Toluene	10.00	91	145530	0.47	ppbv	97
59) m/p-Xylene	13.17	91	39616m	0.12	ppbv	

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

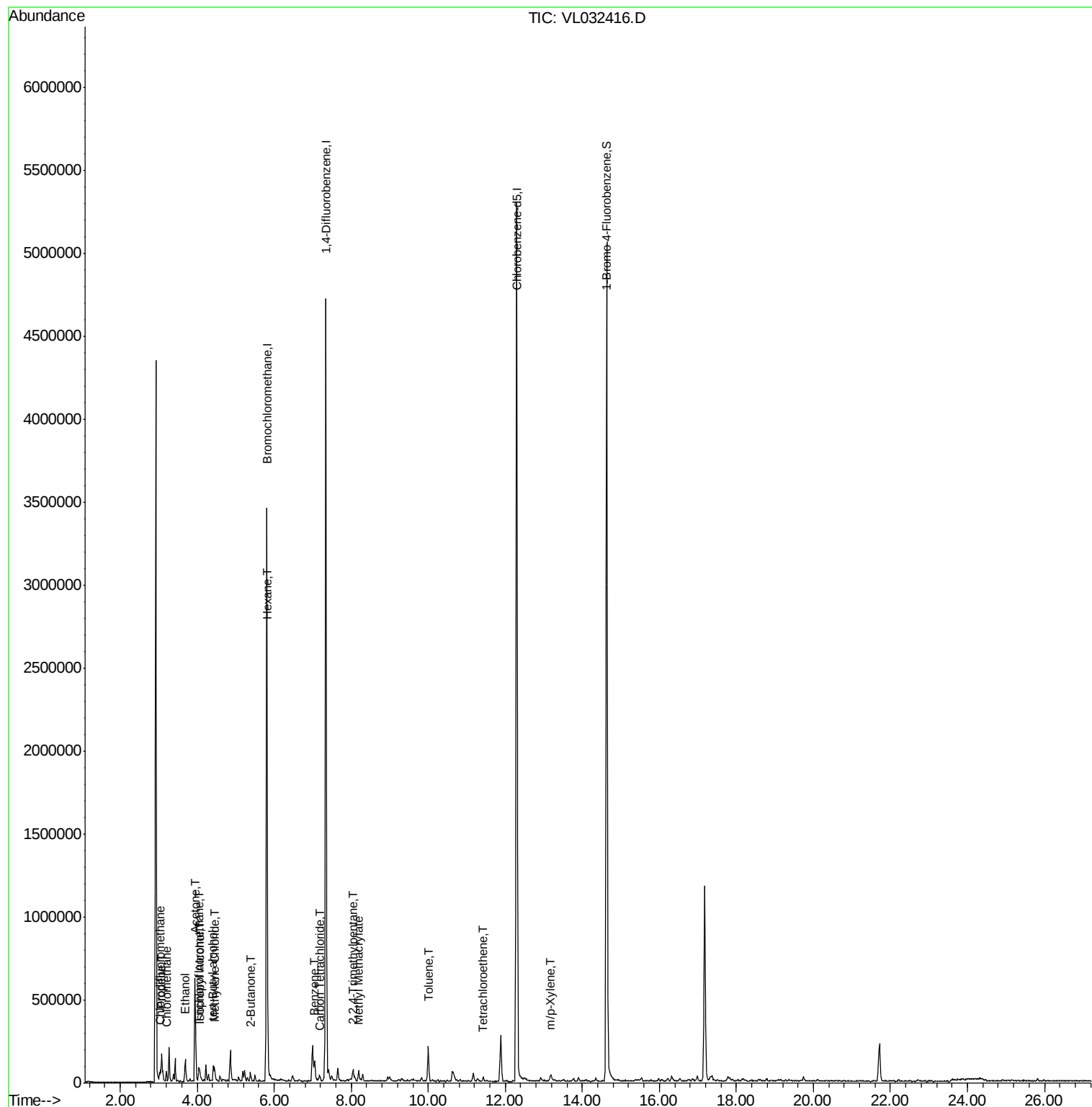
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL082018\
Data File : VL032416.D
Acq On : 21 Aug 2018 9:35
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Sample : J4576-02
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

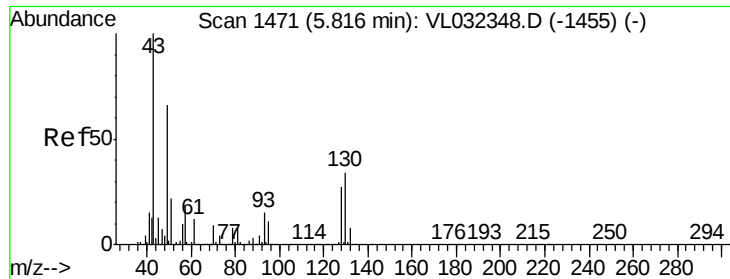
Instrument :
MSVOA_L
ClientSampleId :
OA1

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8/22/2018 10:50:38 AM

Quant Time: Aug 22 05:11:14 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug
QLast Update : Wed Aug 15 14:58:02 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.80 min Scan# 1467

Delta R.T. -0.01 min

Lab File: VL032416.D

Acq: 21 Aug 2018 9:35

Instrument :

MSVOA_L

ClientSampleId :

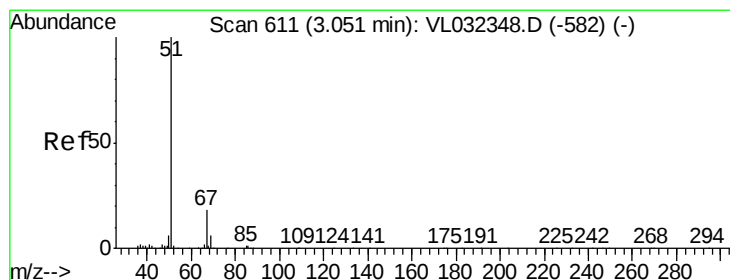
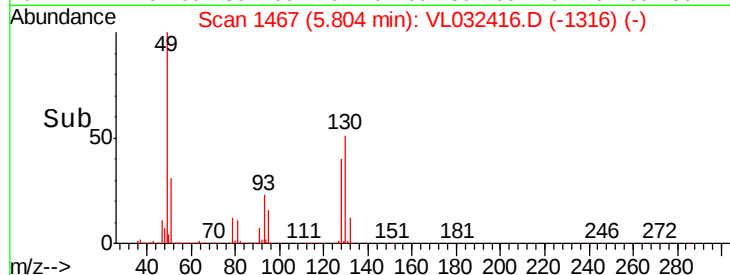
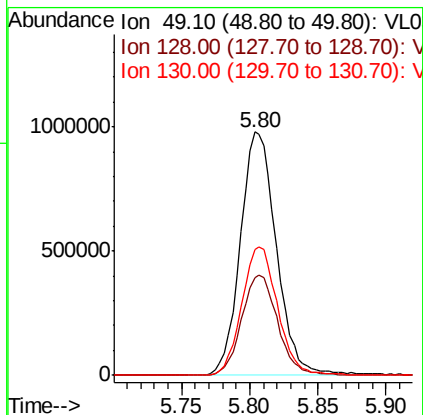
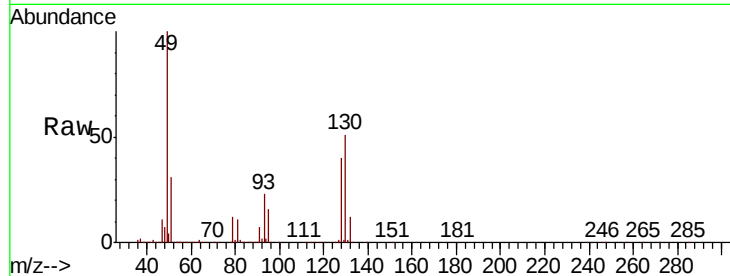
QA1

Tot Ion: 49 Resp: 1789735

Ion	Ratio	Lower	Upper
49	100		
128	41.6	20.5	61.6
130	53.0	26.2	78.5

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#3

Chlorodifluoromethane

Concen: 0.34 ppbv m

RT: 3.04 min Scan# 609

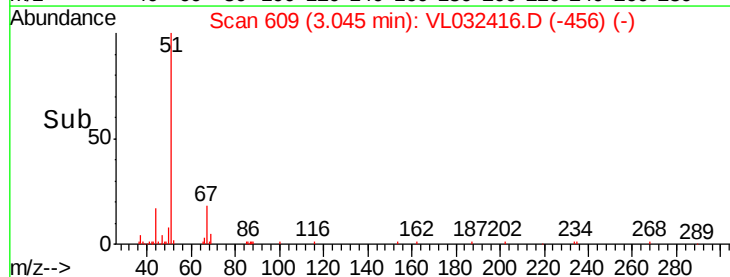
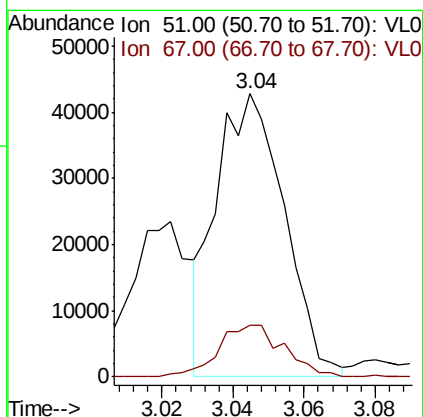
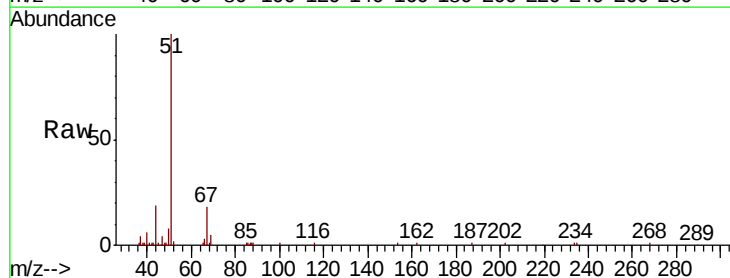
Delta R.T. -0.01 min

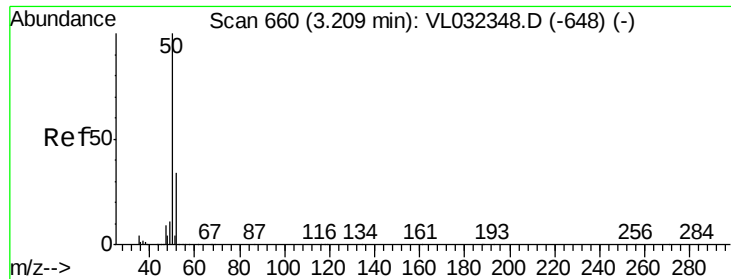
Lab File: VL032416.D

Acq: 21 Aug 2018 9:35

Tgt Ion: 51 Resp: 56853

Ion	Ratio	Lower	Upper
51	100		
67	17.7	13.7	20.5





#4

Chloromethane

Concen: 0.52 ppbv

RT: 3.21 min Scan# 659

Delta R.T. -0.00 min

Lab File: VL032416.D

Acq: 21 Aug 2018 9:35

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tot Ion: 50 Resp: 51318

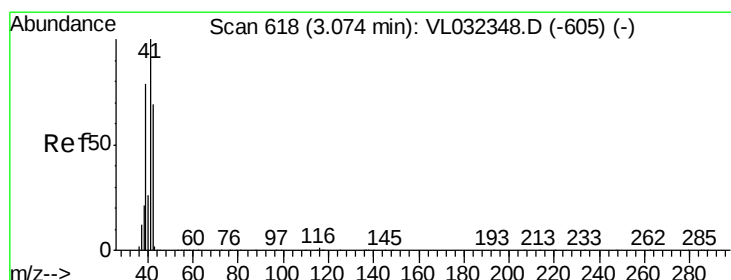
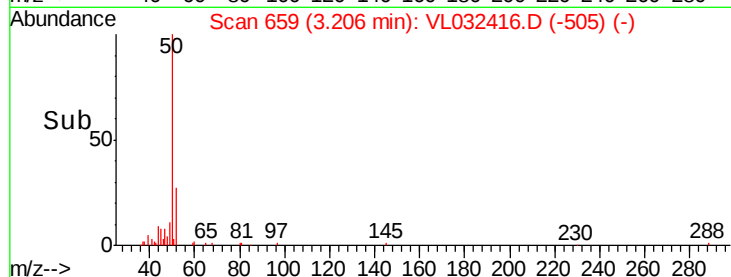
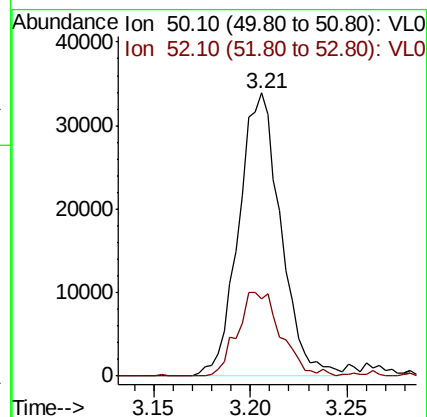
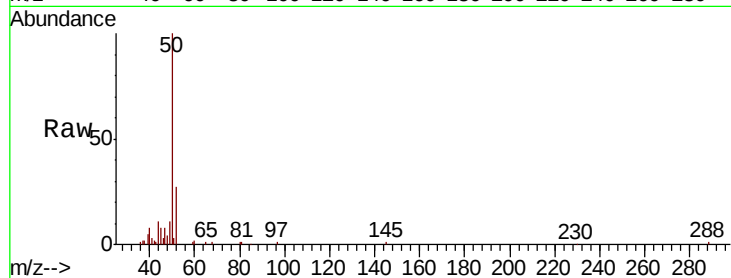
Ion Ratio Lower Upper

50 100

52 27.7 26.8 40.2

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#9

Propene

Concen: 0.58 ppbv

RT: 3.08 min Scan# 619

Delta R.T. 0.00 min

Lab File: VL032416.D

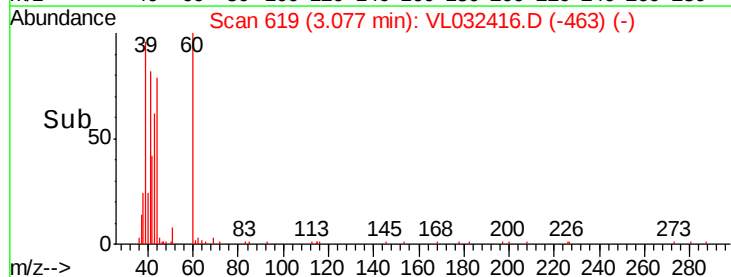
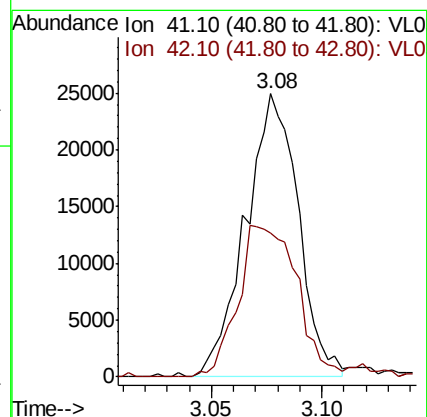
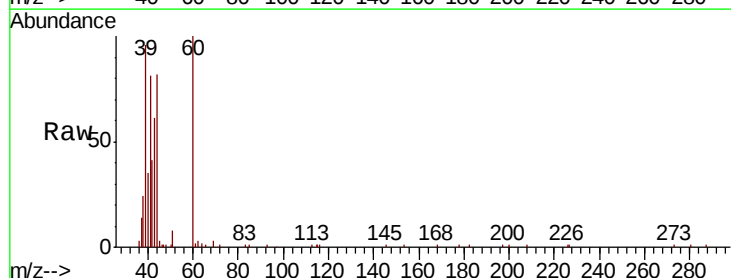
Acq: 21 Aug 2018 9:35

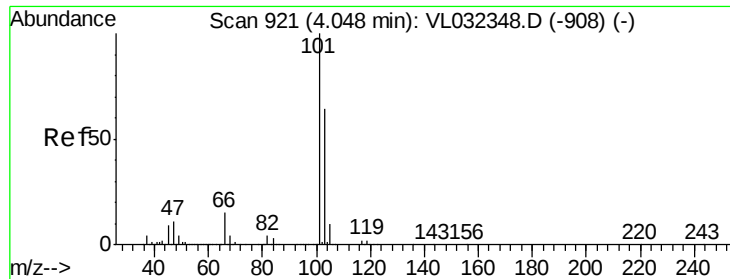
Tgt Ion: 41 Resp: 41252

Ion Ratio Lower Upper

41 100

42 63.1 55.9 83.9





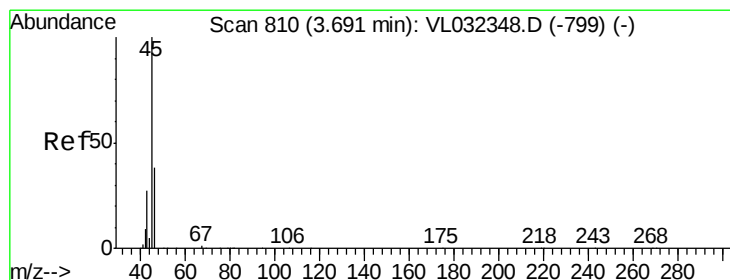
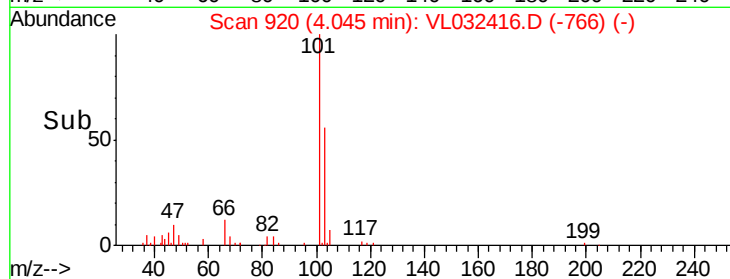
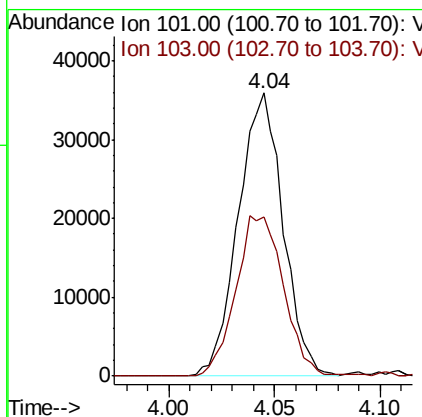
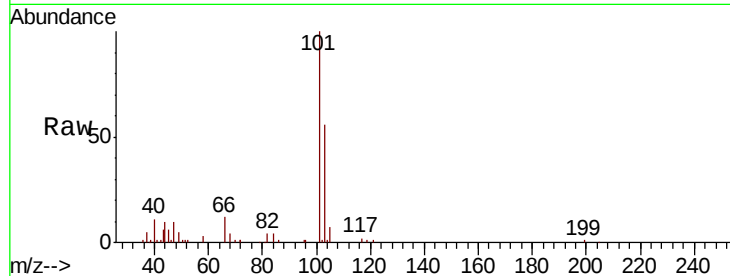
#11
 Trichlorofluoromethane
 Concen: 0.26 ppbv
 RT: 4.04 min Scan# 920
 Delta R.T. -0.00 min
 Lab File: VL032416.D
 Acq: 21 Aug 2018 9:35

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Tot Ion	Ratio	Lower	Upper
101	100		
103	56.4	51.4	77.0

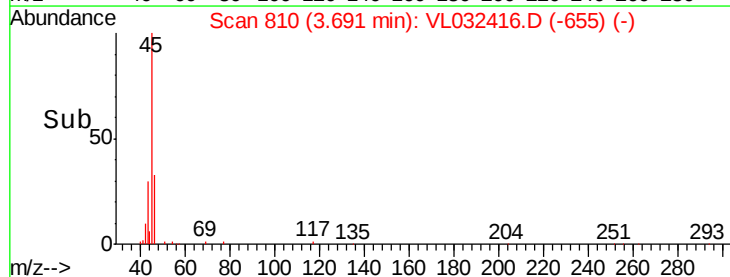
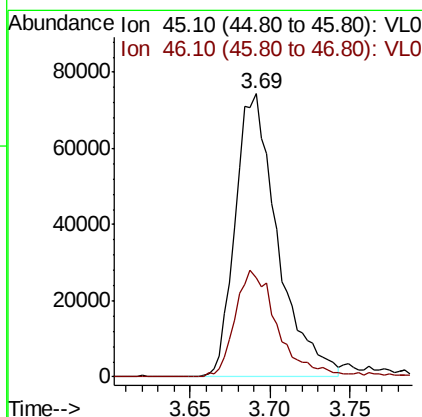
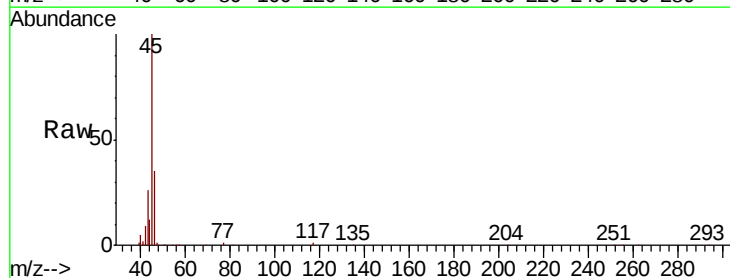
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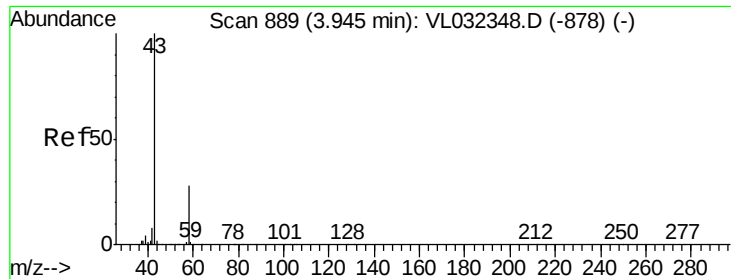
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#13
 Ethanol
 Concen: 7.37 ppbv
 RT: 3.69 min Scan# 810
 Delta R.T. -0.00 min
 Lab File: VL032416.D
 Acq: 21 Aug 2018 9:35

Tgt Ion	Ratio	Lower	Upper
45	100		
46	38.5	15.6	62.4





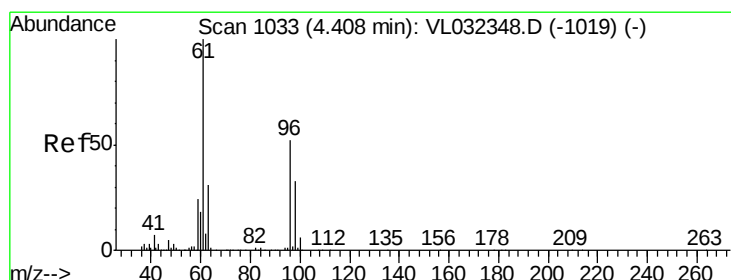
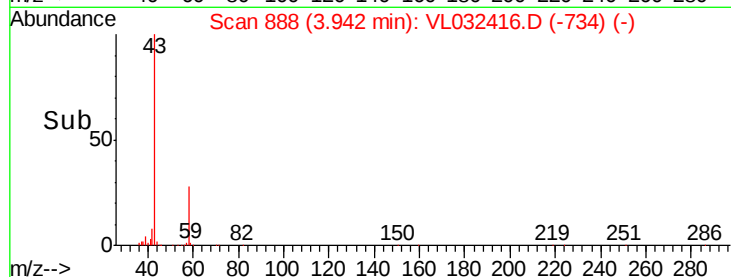
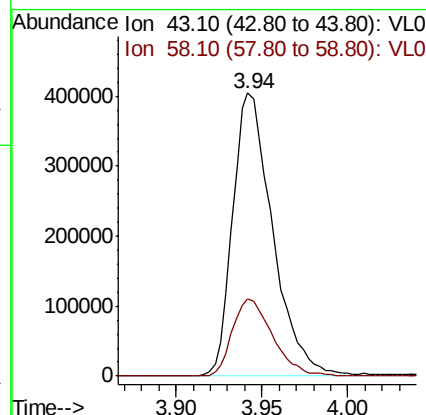
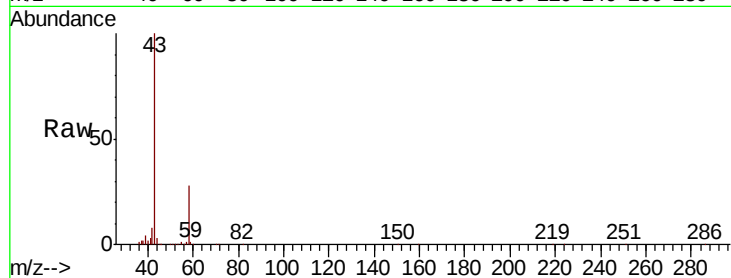
#15
Acetone
Concen: 3.84 ppbv
RT: 3.94 min Scan# 888
Delta R.T. -0.00 min
Lab File: VL032416.D
Acq: 21 Aug 2018 9:35

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tot Ion	Ratio	Lower	Upper
43	100		
58	27.7	22.4	33.6

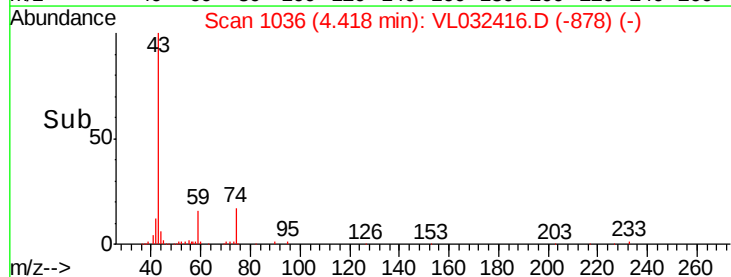
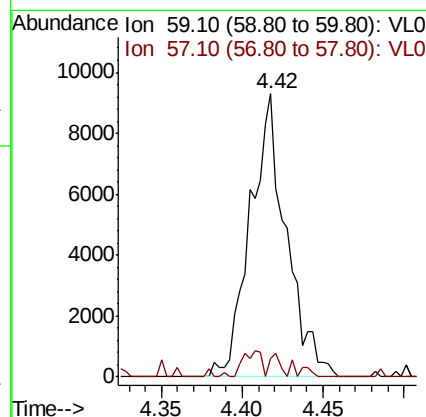
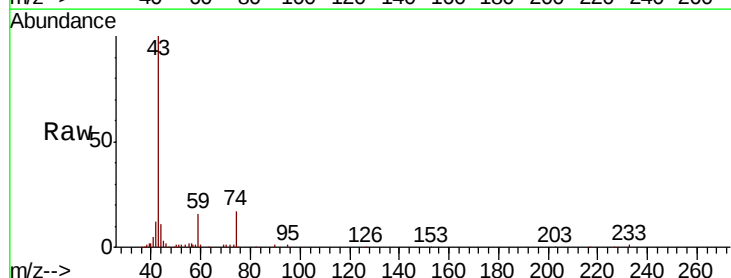
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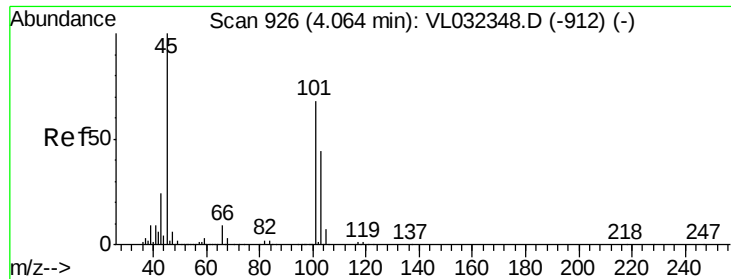
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#17
tert-Butyl alcohol
Concen: 0.50 ppbv m
RT: 4.42 min Scan# 1036
Delta R.T. 0.01 min
Lab File: VL032416.D
Acq: 21 Aug 2018 9:35

Tgt Ion	Ratio	Lower	Upper
59	100		
57	9.0	7.6	11.4





#19

Isopropyl Alcohol

Concen: 0.54 ppbv

RT: 4.07 min Scan# 928

Delta R.T. 0.01 min

Lab File: VL032416.D

Acq: 21 Aug 2018 9:35

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tot Ion: 45 Resp: 61901

Ion Ratio Lower Upper

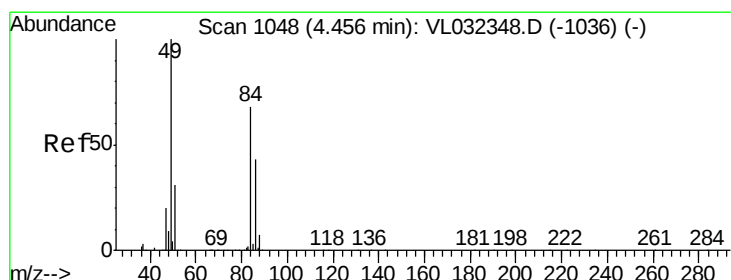
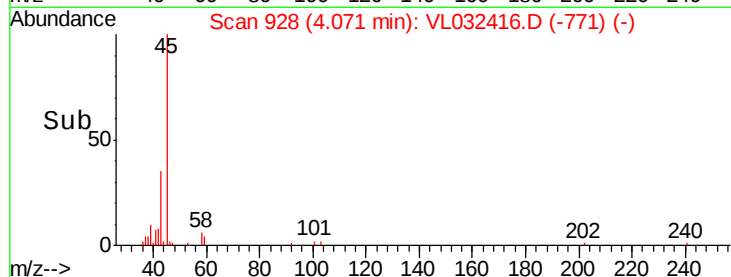
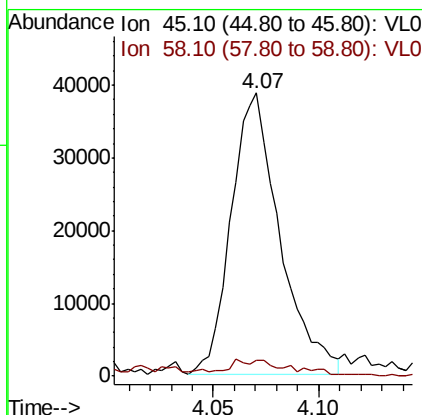
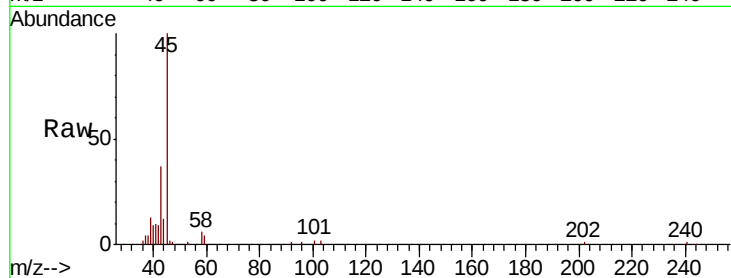
45 100

58 291.6 1.4 2.0#

Manual Integrations
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#20

Methylene Chloride

Concen: 0.43 ppbv m

RT: 4.45 min Scan# 1047

Delta R.T. -0.00 min

Lab File: VL032416.D

Acq: 21 Aug 2018 9:35

Tgt Ion: 84 Resp: 27777

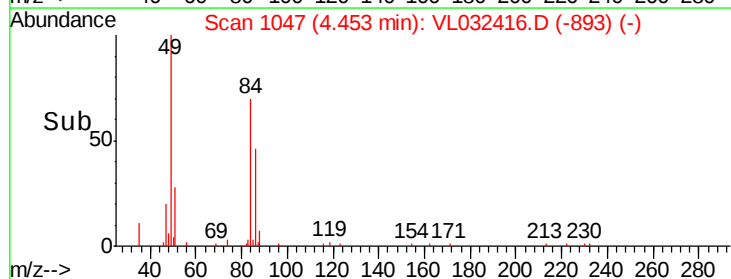
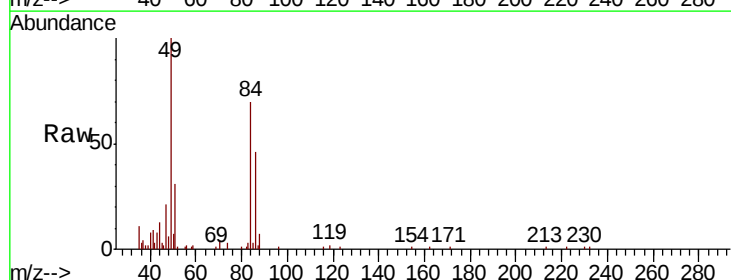
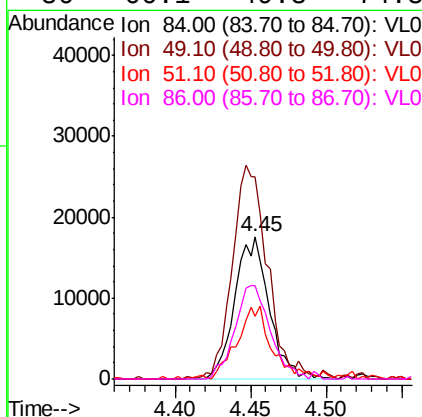
Ion Ratio Lower Upper

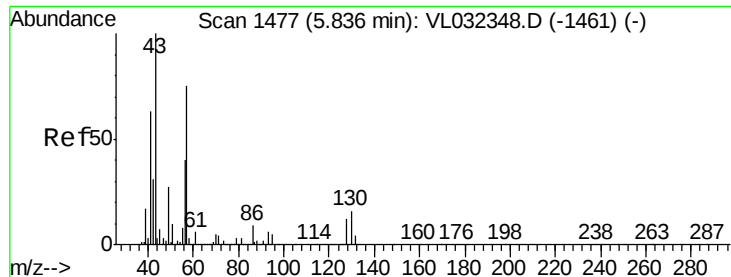
84 100

49 142.2 117.3 175.9

51 43.7 36.6 55.0

86 66.1 49.8 74.8





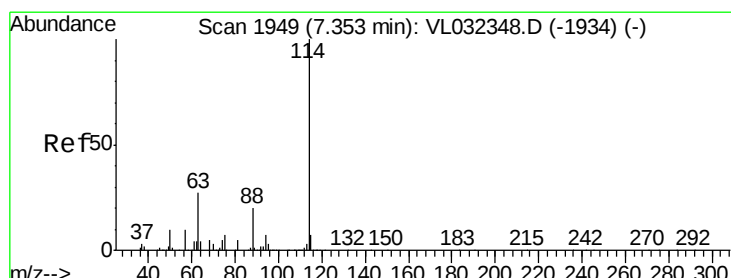
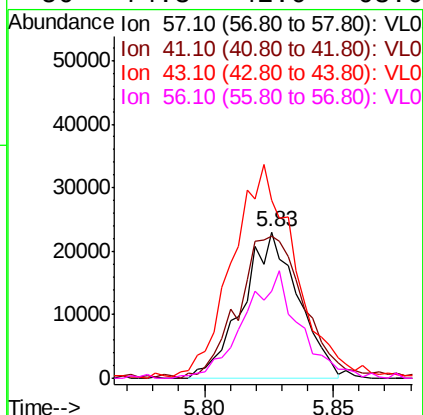
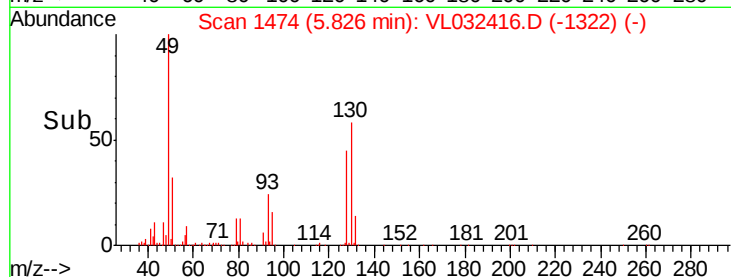
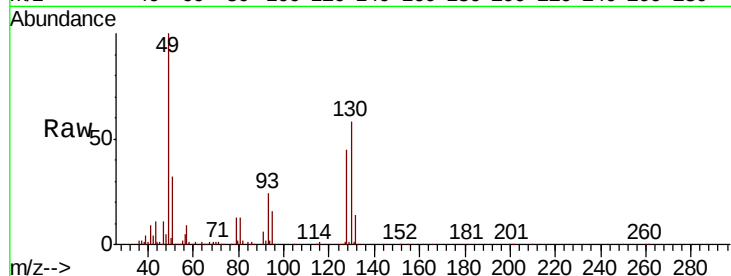
#26
Hexane
Concen: 0.21 ppbv
RT: 5.83 min Scan# 1474
Delta R.T. -0.01 min
Lab File: VL032416.D
Acq: 21 Aug 2018 9:35

Instrument :
MSVOA_L
ClientSampled :
QA1

Tot Ion	Ratio	Lower	Upper
57	100		
41	120.3	68.0	102.0#
43	171.6	175.3	262.9#
56	74.3	42.0	63.0#

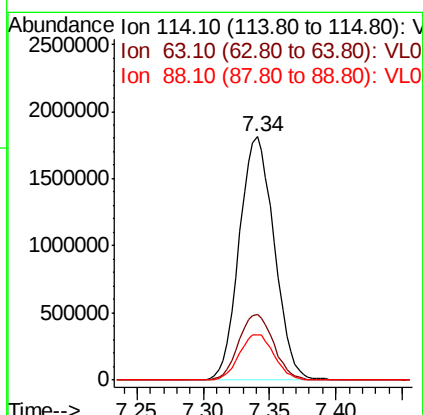
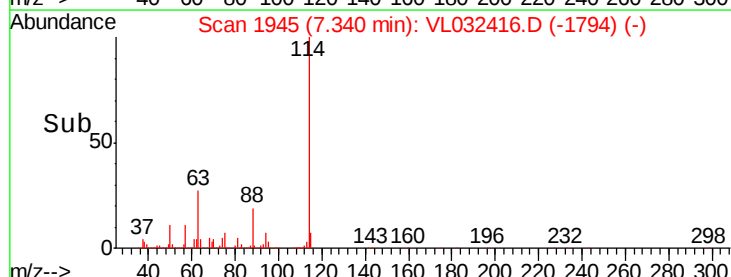
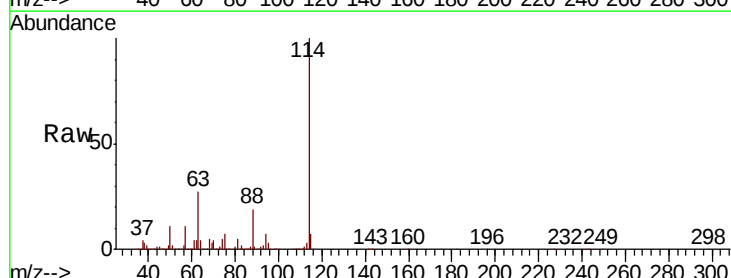
Manual Integrations
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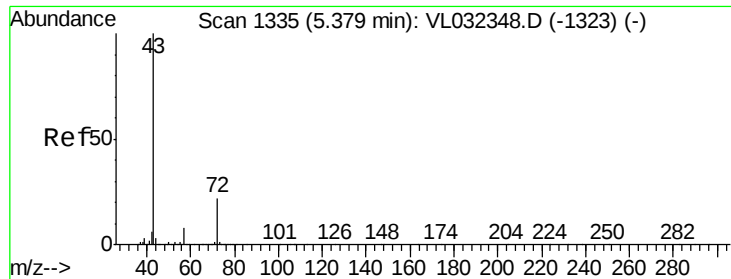
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#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.34 min Scan# 1945
Delta R.T. -0.01 min
Lab File: VL032416.D
Acq: 21 Aug 2018 9:35

Tgt Ion	Ratio	Lower	Upper
114	100		
63	27.2	22.0	33.0
88	18.7	15.3	22.9





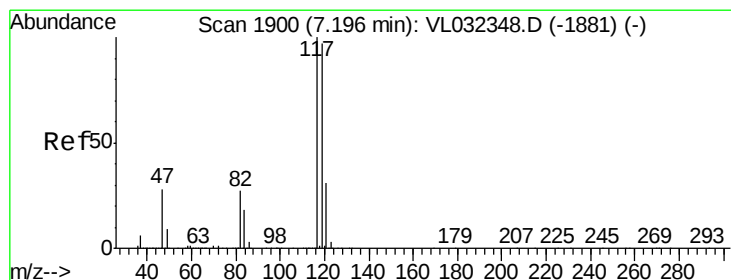
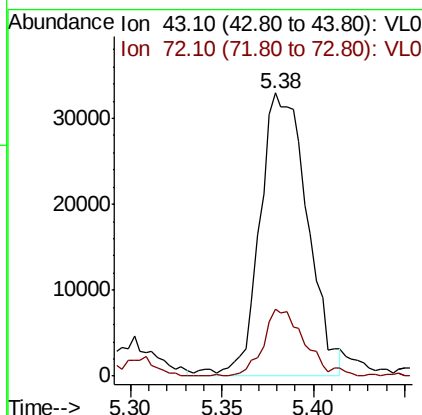
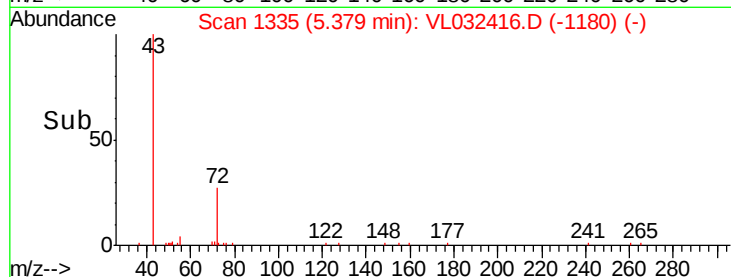
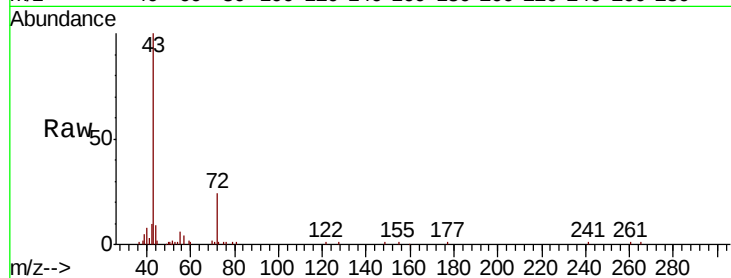
#34
2-Butanone
Concen: 0.26 ppbv m
RT: 5.38 min Scan# 1335
Delta R.T. -0.00 min
Lab File: VL032416.D
Acq: 21 Aug 2018 9:35

Instrument :
MSVOA_L
ClientSampled :
QA1

Tot Ion	Ratio	Lower	Upper
43	100		
72	20.9	17.9	26.9

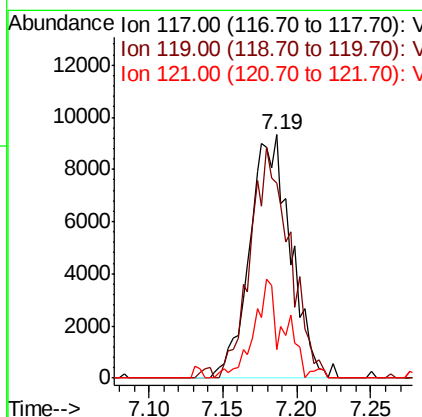
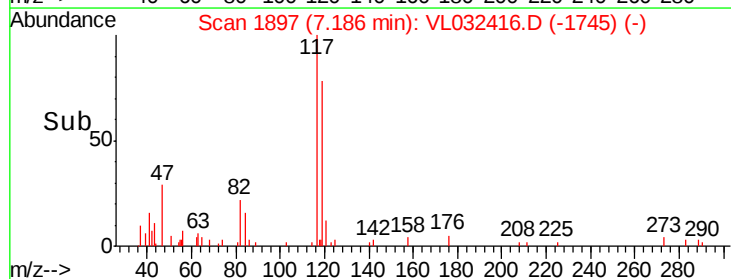
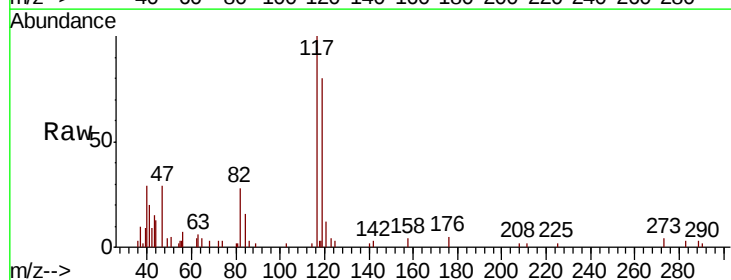
Manual Integrations
APPROVED

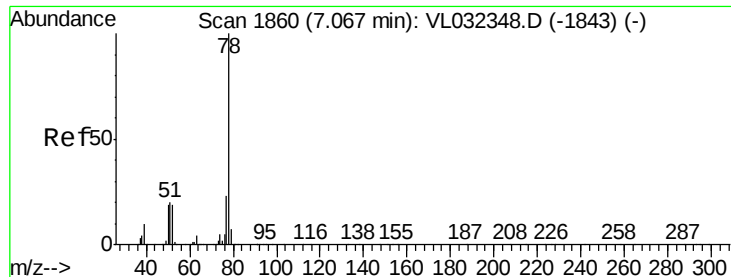
MMDadoda
8/22/2018 10:50:38 AM



#35
Carbon Tetrachloride
Concen: 0.09 ppbv m
RT: 7.19 min Scan# 1897
Delta R.T. -0.01 min
Lab File: VL032416.D
Acq: 21 Aug 2018 9:35

Tgt Ion	Ratio	Lower	Upper
117	100		
119	80.1	77.2	115.8
121	11.9	25.1	37.7#





#36

Benzene

Concen: 0.24 ppbv

RT: 7.05 min Scan# 1855

Delta R.T. -0.02 min

Lab File: VL032416.D

Acq: 21 Aug 2018 9:35

Instrument :

MSVOA_L

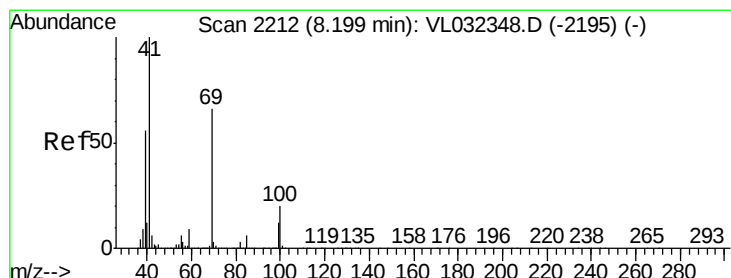
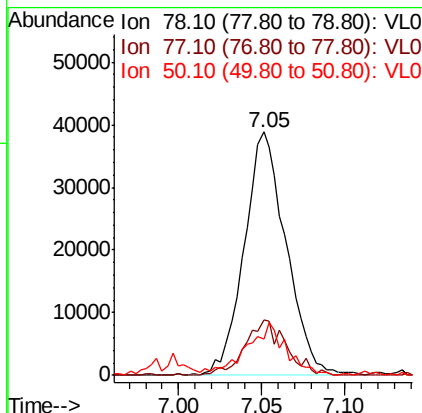
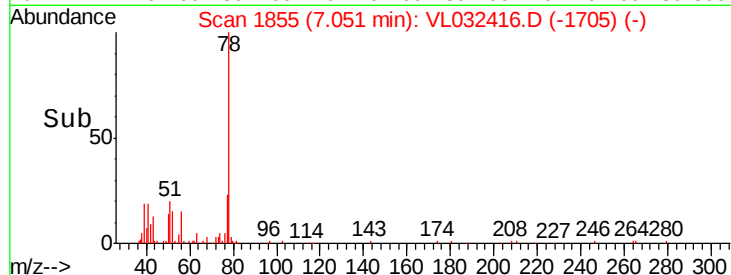
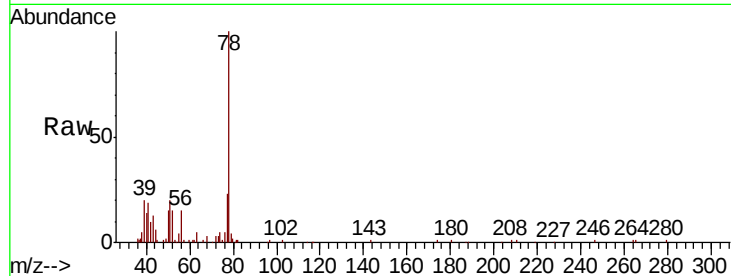
ClientSampled :

QA1

Tot Ion:	78	Resp:	68110
Ion Ratio	Lower	Upper	
78	100		
77	22.8	18.0	27.0
50	15.0	15.1	22.7#

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#43

Methyl Methacrylate

Concen: 0.21 ppbv m

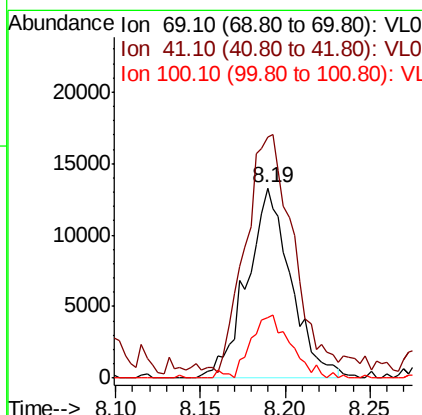
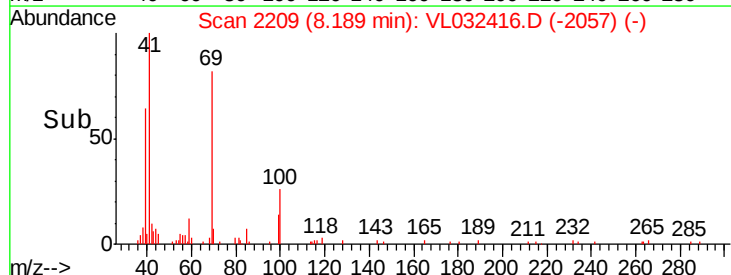
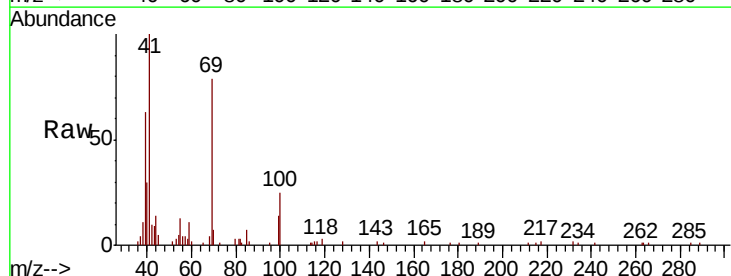
RT: 8.19 min Scan# 2209

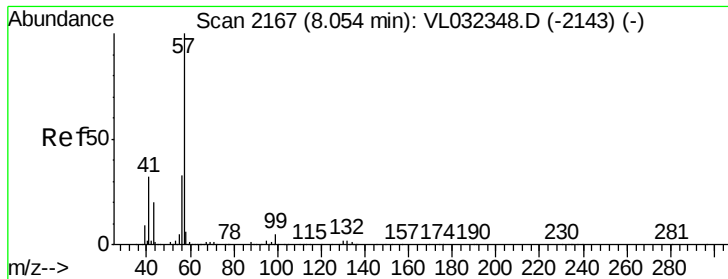
Delta R.T. -0.01 min

Lab File: VL032416.D

Acq: 21 Aug 2018 9:35

Tgt Ion:	69	Resp:	23900
Ion Ratio	Lower	Upper	
69	100		
41	150.6	118.6	177.8
100	30.9	23.4	35.2





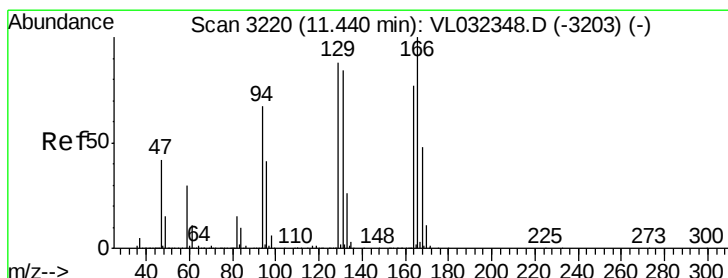
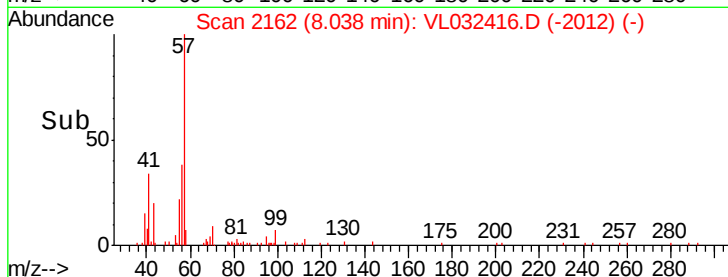
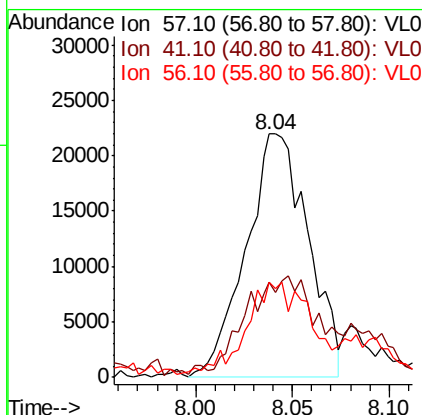
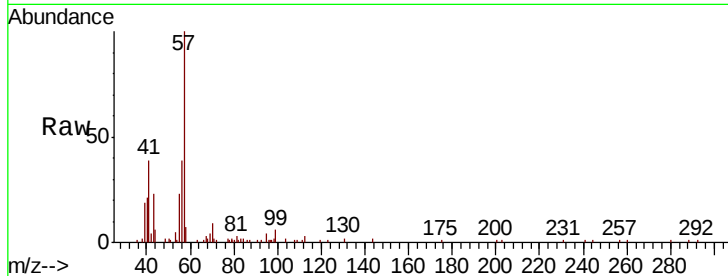
#44
 2,2,4-Trimethylpentane
 Concen: 0.10 ppbv
 RT: 8.04 min Scan# 2162
 Delta R.T. -0.02 min
 Lab File: VL032416.D
 Acq: 21 Aug 2018 9:35

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Tot Ion	Ratio	Lower	Upper
57	100		
41	64.3	24.3	36.5#
56	55.2	25.7	38.5#

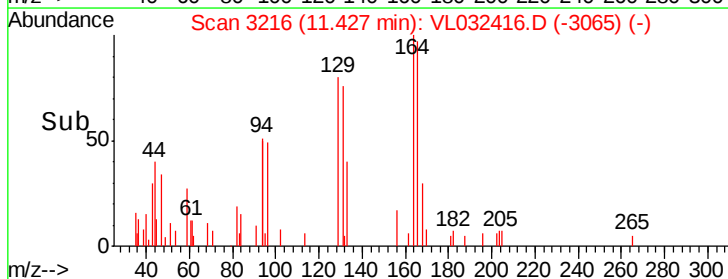
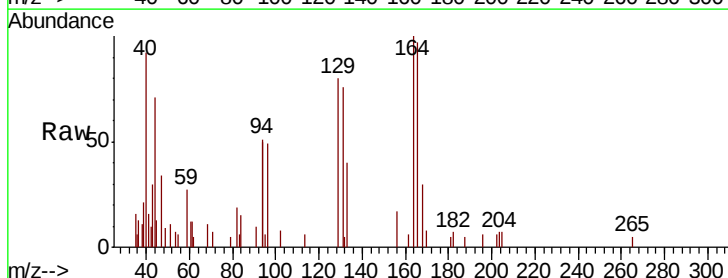
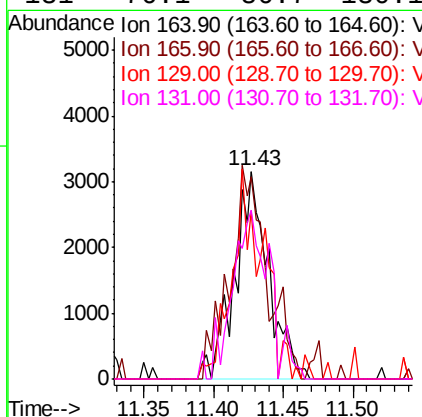
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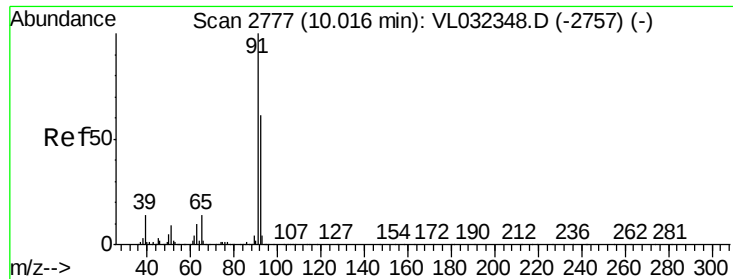
MMDadoda
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#52
 Tetrachloroethene
 Concen: 0.06 ppbv m
 RT: 11.43 min Scan# 3216
 Delta R.T. -0.01 min
 Lab File: VL032416.D
 Acq: 21 Aug 2018 9:35

Tgt Ion	Ratio	Lower	Upper
164	100		
166	97.2	103.5	155.3#
129	80.3	90.9	136.3#
131	76.1	86.7	130.1#





#53

Toluene

Concen: 0.47 ppbv

RT: 10.00 min Scan# 2773

Delta R.T. -0.01 min

Lab File: VL032416.D

Acq: 21 Aug 2018 9:35

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tot Ion: 91 Resp: 145530

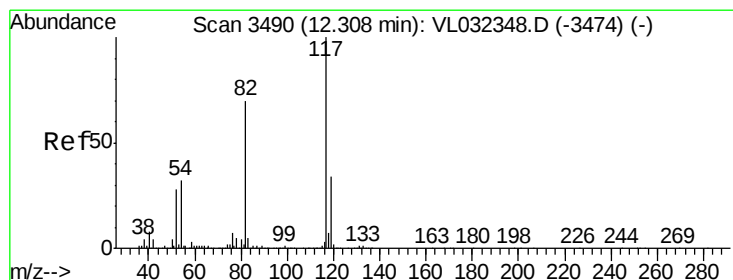
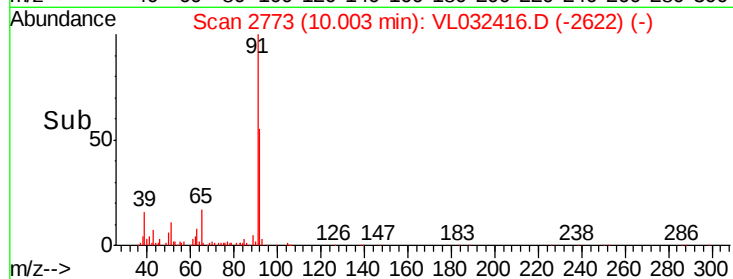
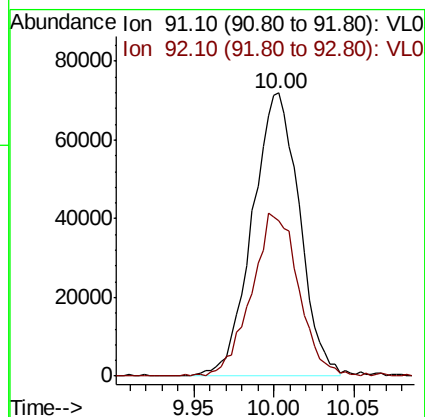
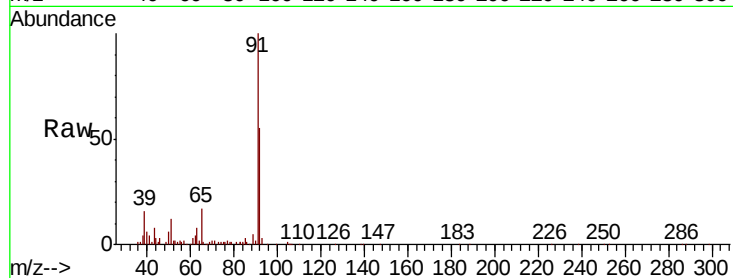
Ion Ratio Lower Upper

91 100

92 58.3 48.7 73.1

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#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.30 min Scan# 3486

Delta R.T. -0.01 min

Lab File: VL032416.D

Acq: 21 Aug 2018 9:35

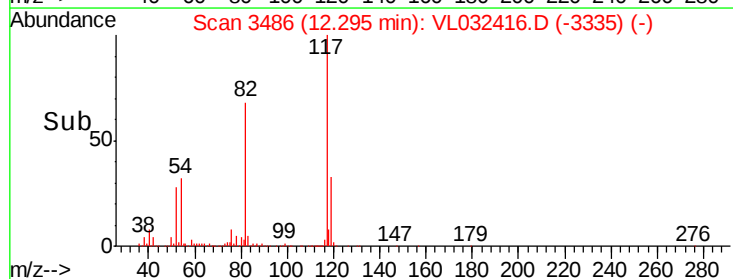
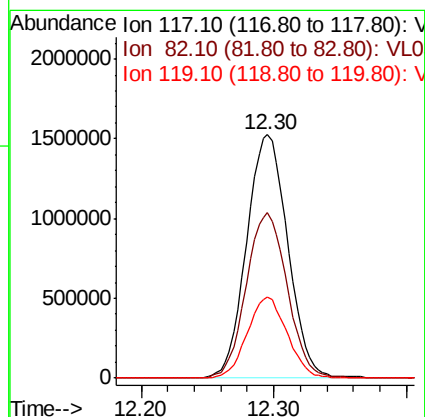
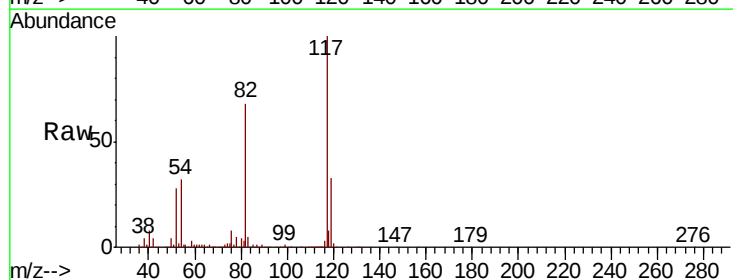
Tgt Ion: 117 Resp: 3282537

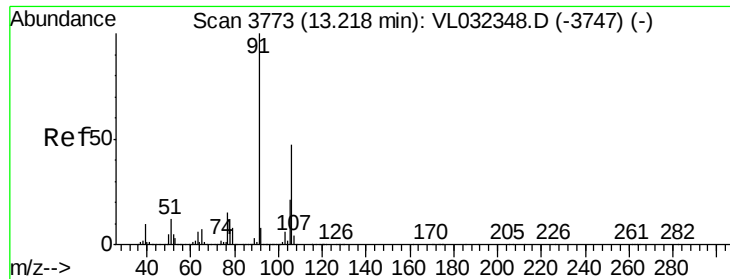
Ion Ratio Lower Upper

117 100

82 68.1 55.1 82.7

119 32.6 46.0 69.0#





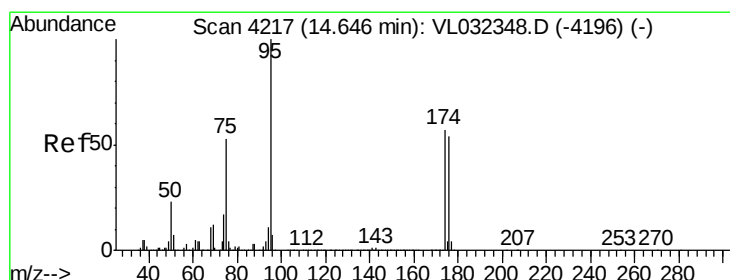
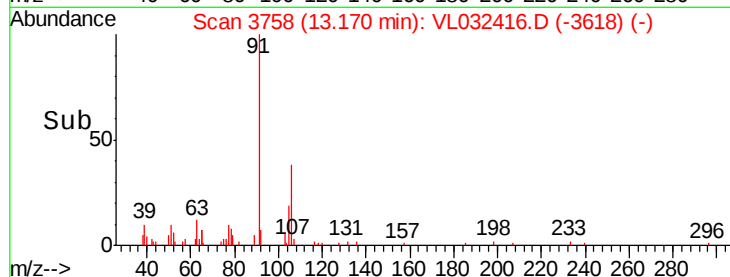
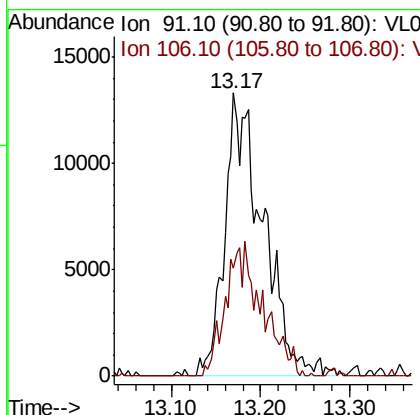
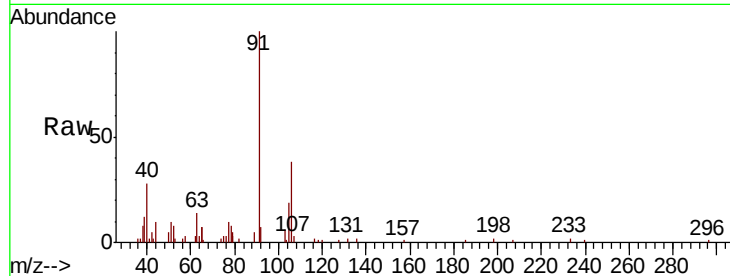
#59
m/p-Xylene
Concen: 0.12 ppbv m
RT: 13.17 min Scan# 3758
Delta R.T. -0.05 min
Lab File: VL032416.D
Acq: 21 Aug 2018 9:35

Instrument :
MSVOA_L
ClientSampled :
OA1

Tot Ion: 91 Resp: 39616
Ion Ratio Lower Upper
91 100
106 0.0 37.0 55.4#

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#68
1-Bromo-4-Fluorobenzene
Concen: 10.14 ppbv
RT: 14.63 min Scan# 4212
Delta R.T. -0.02 min
Lab File: VL032416.D
Acq: 21 Aug 2018 9:35

Tgt Ion: 95 Resp: 2538421
Ion Ratio Lower Upper
95 100
174 58.3 46.2 69.4
175 4.1 3.4 5.0

