

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080118\
 Data File : VL032336.D
 Acq On : 1 Aug 2018 23:58
 Operator : SY/AP
 Sample : J4235-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OUTSIDE-ROOF

Manual Integrations
 APPROVED

MMDadoda
 8/2/2018 2:05:02 PM

Quant Time: Aug 02 12:40:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 27 2018
 QLast Update : Fri Jul 27 07:05:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.82	49	1739262	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.36	114	4203128	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.32	117	4161391	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.65	95	3351141	10.37	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.11	85	42080	0.20	ppbv	99
3) Chlorodifluoromethane	3.05	51	78602m	0.45	ppbv	
4) Chloromethane	3.21	50	61052	0.58	ppbv	97
9) Propene	3.08	41	63185	0.81	ppbv	89
11) Trichlorofluoromethane	4.06	101	52633	0.26	ppbv	91
13) Ethanol	3.70	45	124368m	5.53	ppbv	
15) Acetone	3.95	43	853684	5.21	ppbv	97
19) Isopropyl Alcohol	4.09	45	76482m	0.70	ppbv	
20) Methylene Chloride	4.46	84	165161	2.51	ppbv	91
26) Hexane	5.84	57	793998	4.77	ppbv #	43
30) Cyclohexane	7.35	84	23717m	0.18	ppbv	
34) 2-Butanone	5.40	43	79897	0.29	ppbv	98
35) Carbon Tetrachloride	7.21	117	18301m	0.08	ppbv	
36) Benzene	7.07	78	75504	0.20	ppbv #	90
44) 2,2,4-Trimethylpentane	8.07	57	107182	0.13	ppbv #	74
53) Toluene	10.02	91	190753	0.43	ppbv	98
59) m/p-Xylene	13.20	91	324512m	0.73	ppbv	
60) o-Xylene	13.92	91	139637	0.32	ppbv	97
61) Styrene	13.76	104	31359m	0.10	ppbv	
74) 1,2,4-Trimethylbenzene	17.01	105	124673	0.25	ppbv #	70

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

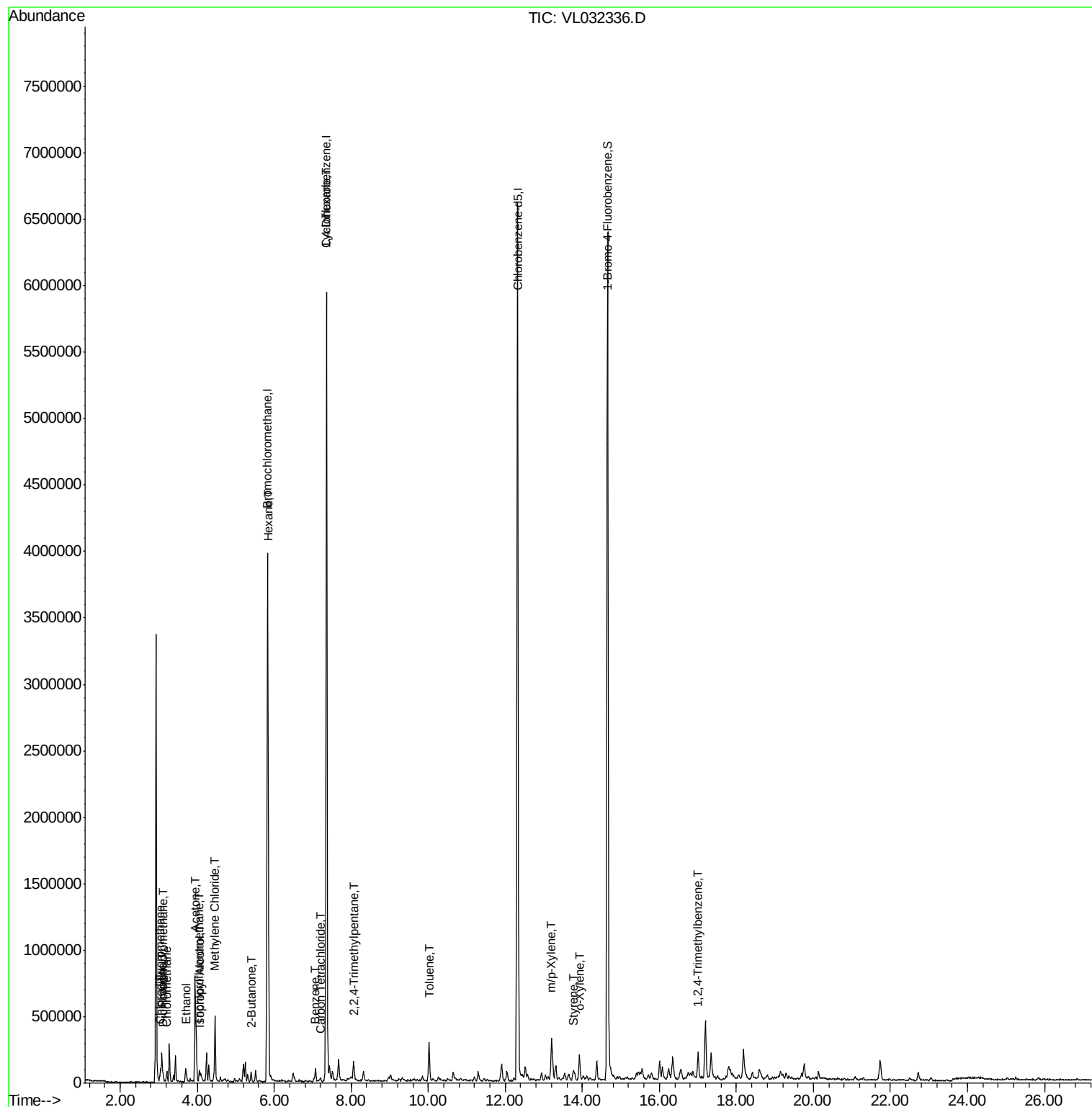
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL080118\
Data File : VL032336.D
Acq On : 1 Aug 2018 23:58
Operator : SY/AP
Sample : J4235-03
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

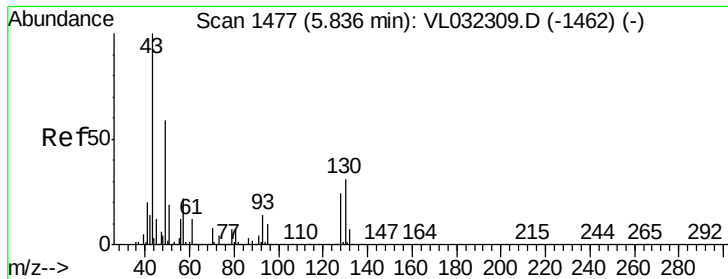
Instrument :
MSVOA_L
ClientSampleId :
OUTSIDE-ROOF

Manual Integrations
APPROVED

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Quant Time: Aug 02 12:40:25 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL072718AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul
QLast Update : Fri Jul 27 07:05:37 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.82 min Scan# 1473

Delta R.T. -0.01 min

Lab File: VL032336.D

Acq: 1 Aug 2018 23:58

Instrument :

MSVOA_L

ClientSampleId :

OUTSIDE-ROOF

Tot Ion: 49 Resp: 1739262

Ion Ratio Lower Upper

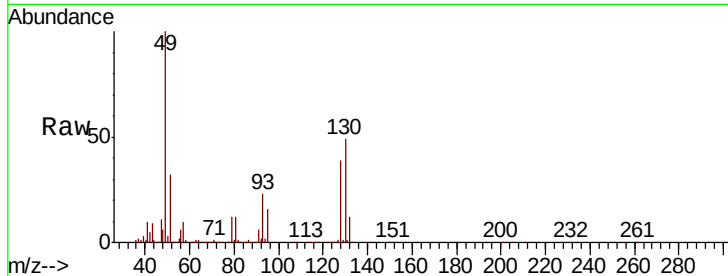
49 100

128 39.2 20.2 60.6

130 51.2 25.8 77.3

Manual Integrations
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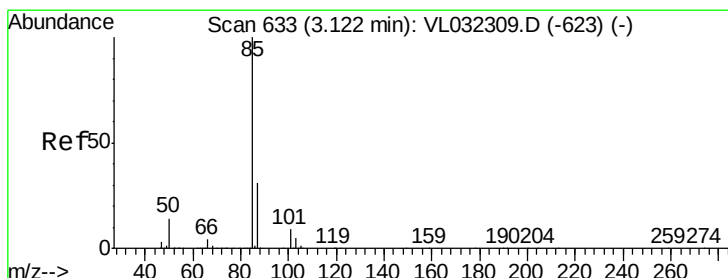
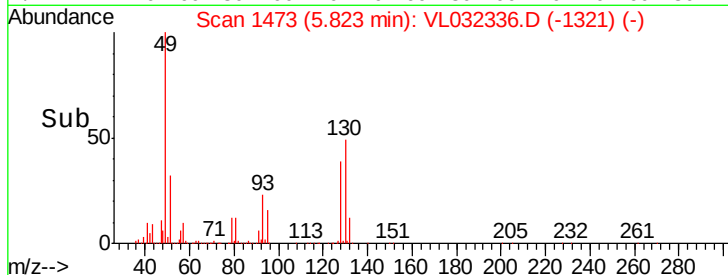
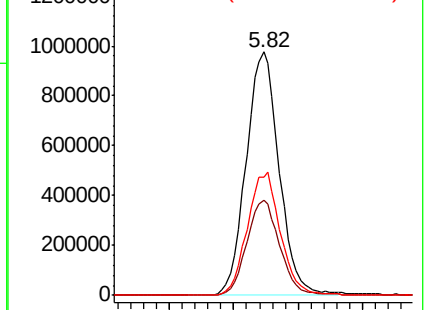
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.20 ppbv

RT: 3.11 min Scan# 630

Delta R.T. -0.01 min

Lab File: VL032336.D

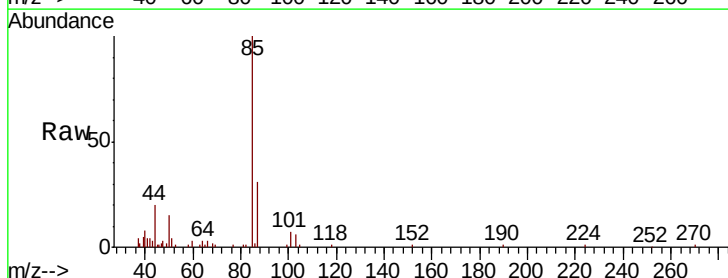
Acq: 1 Aug 2018 23:58

Tgt Ion: 85 Resp: 42080

Ion Ratio Lower Upper

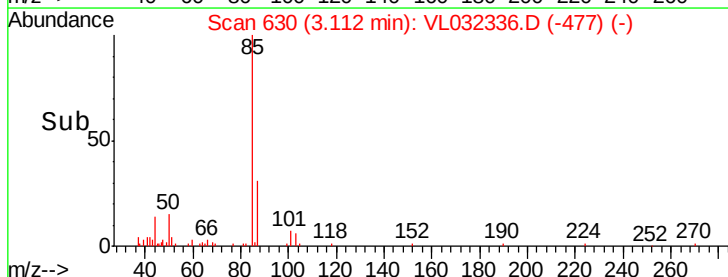
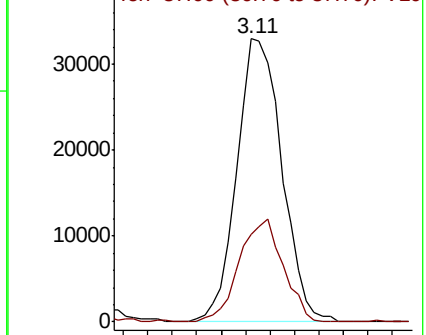
85 100

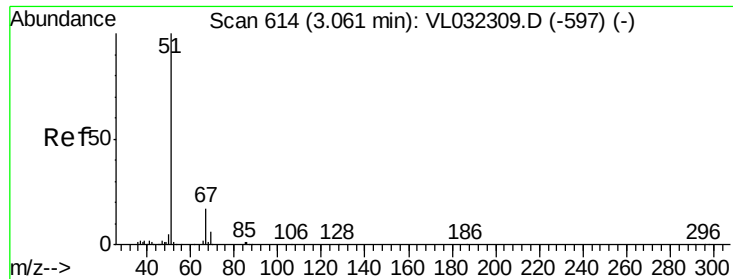
87 30.8 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





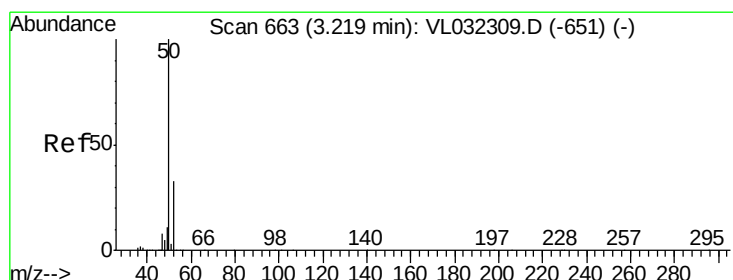
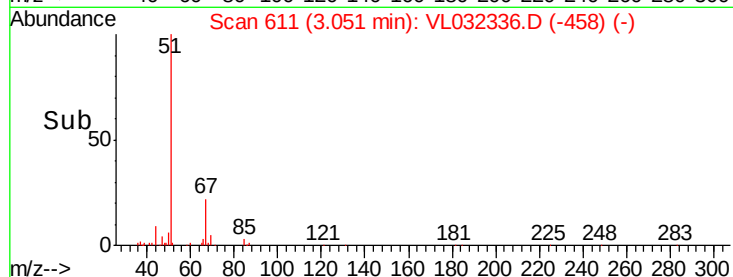
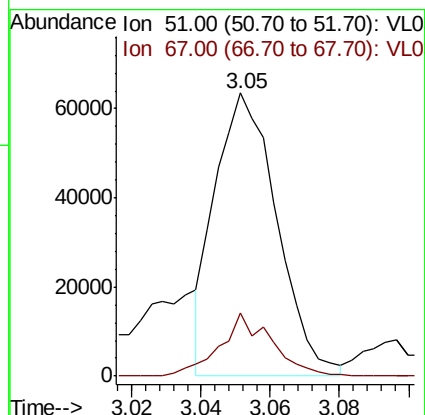
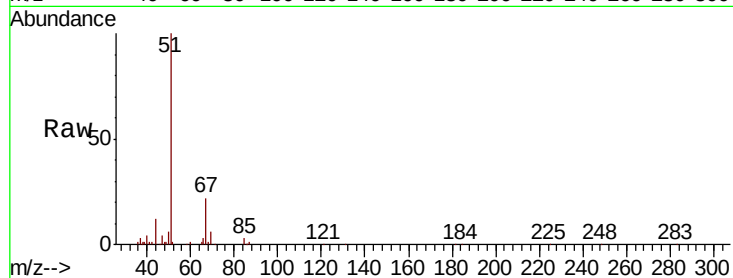
#3
Chlorodifluoromethane
Concen: 0.45 ppbv m
RT: 3.05 min Scan# 611
Delta R.T. -0.01 min
Lab File: VL032336.D
Acq: 1 Aug 2018 23:58

Instrument :
MSVOA_L
ClientSampleId :
OUTSIDE-ROOF

Tot Ion	Ratio	Lower	Upper
51	100		
67	18.7	13.5	20.3

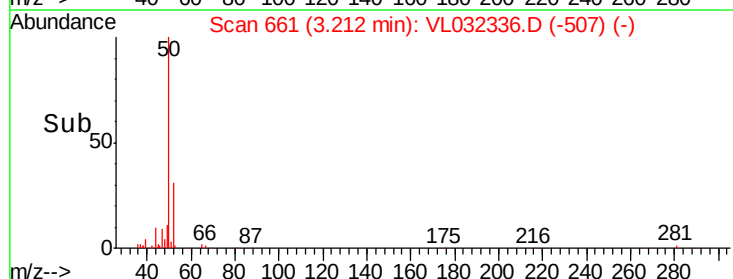
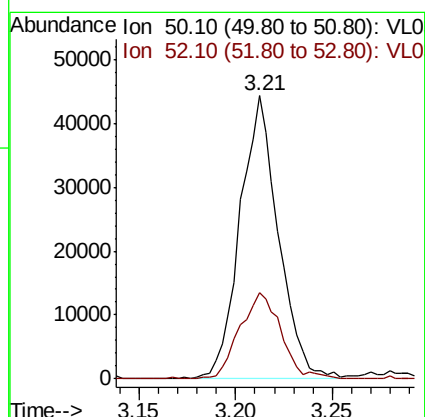
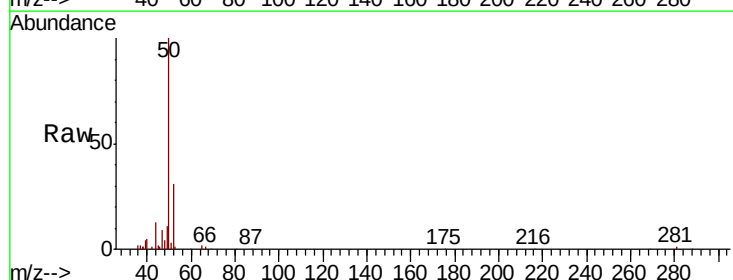
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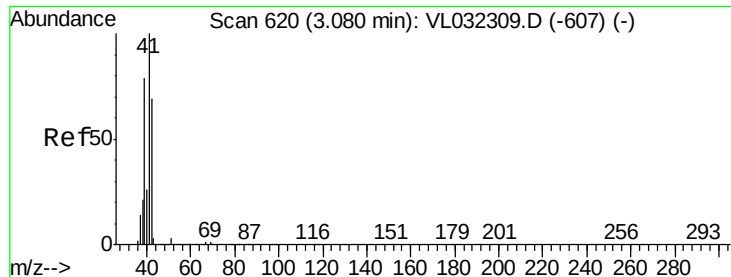
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#4
Chloromethane
Concen: 0.58 ppbv
RT: 3.21 min Scan# 661
Delta R.T. -0.01 min
Lab File: VL032336.D
Acq: 1 Aug 2018 23:58

Tgt Ion	Ratio	Lower	Upper
50	100		
52	31.1	26.2	39.4





#9

Propene

Concen: 0.81 ppbv

RT: 3.08 min Scan# 620

Delta R.T. 0.00 min

Lab File: VL032336.D

Acq: 1 Aug 2018 23:58

Instrument :

MSVOA_L

ClientSampleId :

OUTSIDE-ROOF

Tot Ion: 41 Resp: 63185

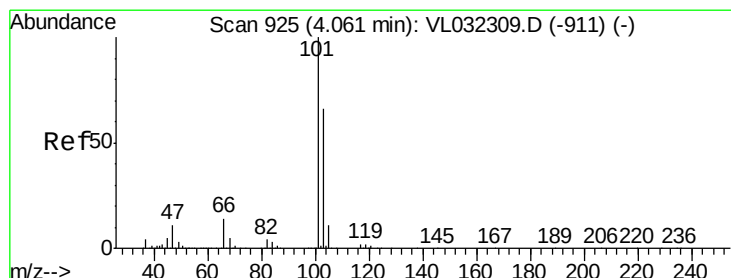
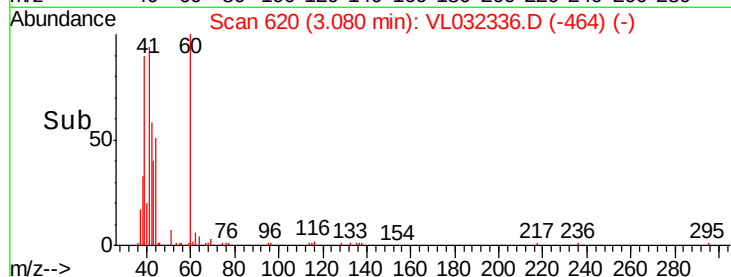
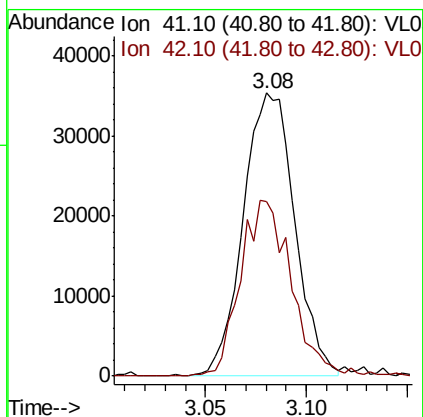
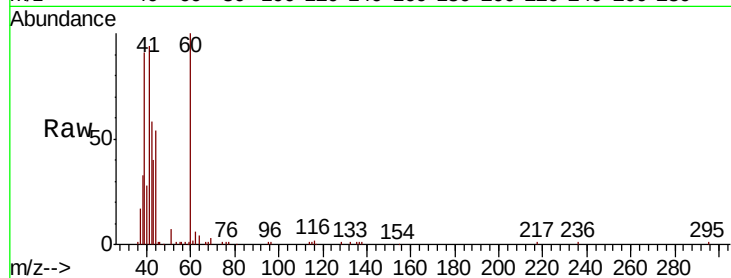
Ion Ratio Lower Upper

41 100

42 61.5 56.8 85.2

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#11

Trichlorofluoromethane

Concen: 0.26 ppbv

RT: 4.06 min Scan# 924

Delta R.T. -0.00 min

Lab File: VL032336.D

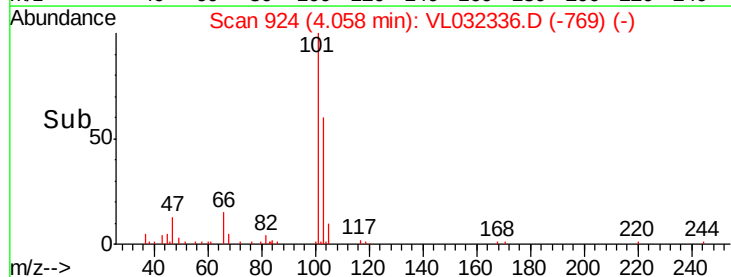
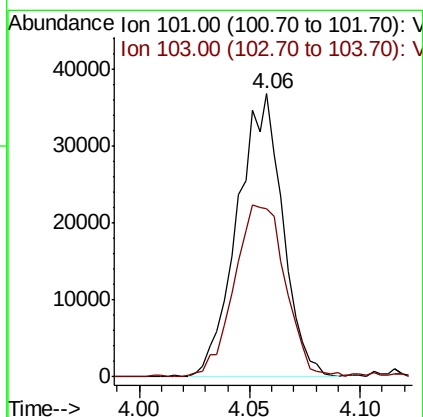
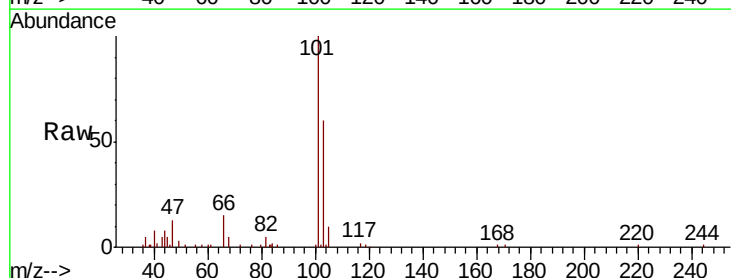
Acq: 1 Aug 2018 23:58

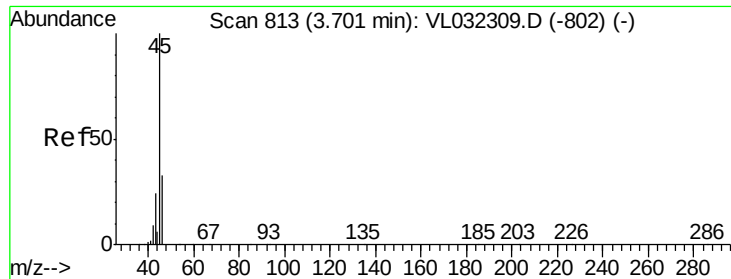
Tgt Ion: 101 Resp: 52633

Ion Ratio Lower Upper

101 100

103 58.9 52.6 78.8





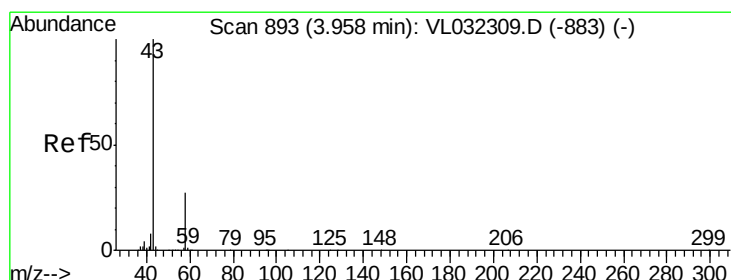
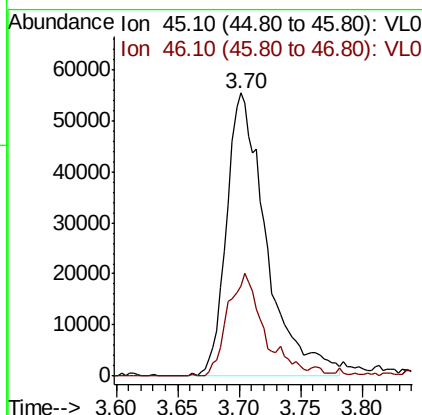
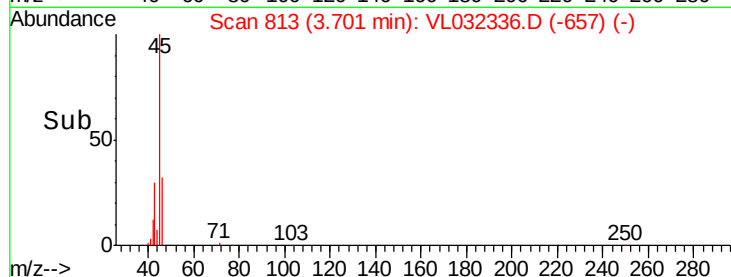
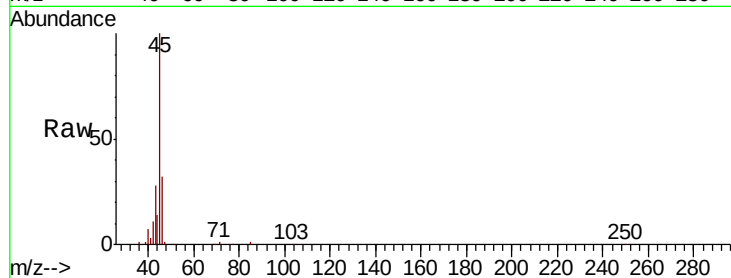
#13
Ethanol
Concen: 5.53 ppbv m
RT: 3.70 min Scan# 813
Delta R.T. 0.00 min
Lab File: VL032336.D
Acq: 1 Aug 2018 23:58

Instrument :
MSVOA_L
ClientSampleId :
OUTSIDE-ROOF

Tot Ion	Ratio	Lower	Upper
45	100		
46	34.8	15.2	60.6

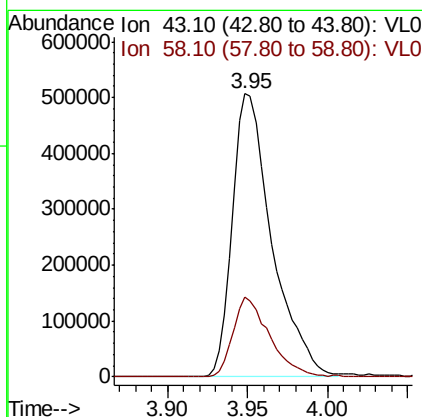
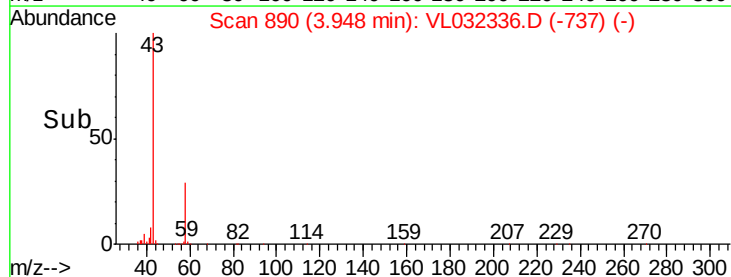
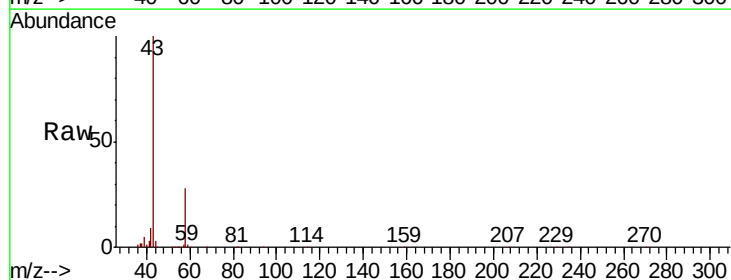
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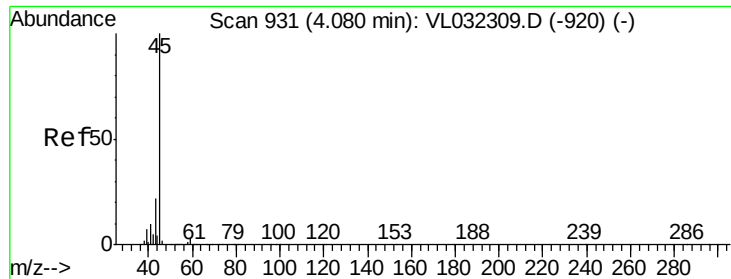
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#15
Acetone
Concen: 5.21 ppbv
RT: 3.95 min Scan# 890
Delta R.T. -0.01 min
Lab File: VL032336.D
Acq: 1 Aug 2018 23:58

Tgt Ion	Ratio	Lower	Upper
43	100		
58	26.6	22.5	33.7





#19

Isopropyl Alcohol

Concen: 0.70 ppbv m

RT: 4.09 min Scan# 933

Delta R.T. 0.01 min

Lab File: VL032336.D

Acq: 1 Aug 2018 23:58

Instrument :

MSVOA_L

ClientSampleId :

OUTSIDE-ROOF

Tot Ion: 45 Resp: 76482

Ion Ratio Lower Upper

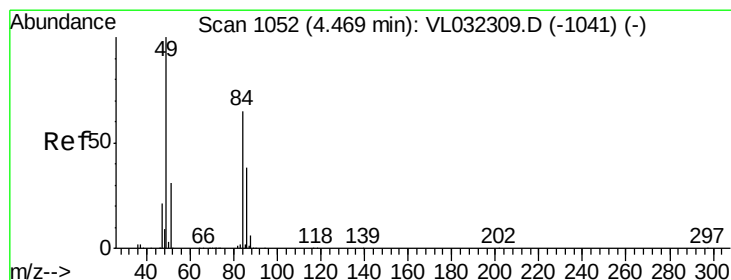
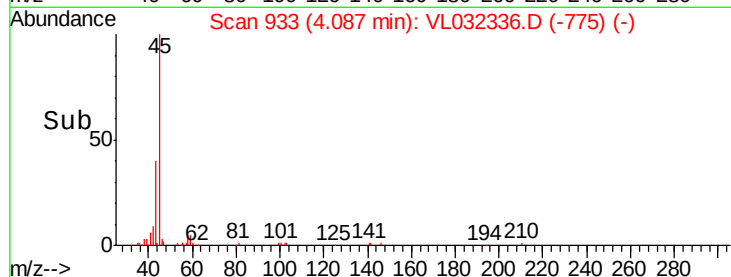
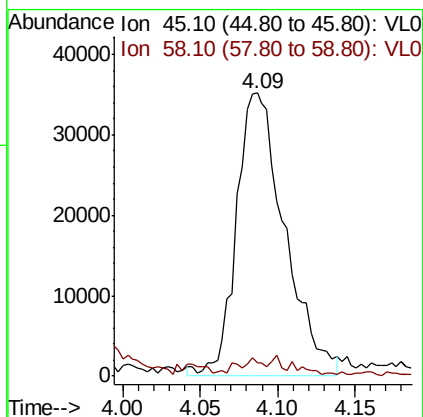
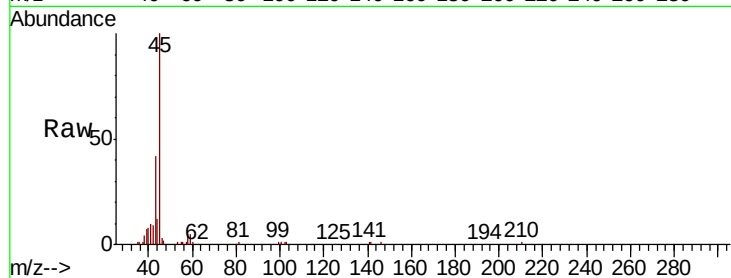
45 100

58 0.0 1.5 2.3#

Manual Integrations
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#20

Methylene Chloride

Concen: 2.51 ppbv

RT: 4.46 min Scan# 1050

Delta R.T. -0.01 min

Lab File: VL032336.D

Acq: 1 Aug 2018 23:58

Tgt Ion: 84 Resp: 165161

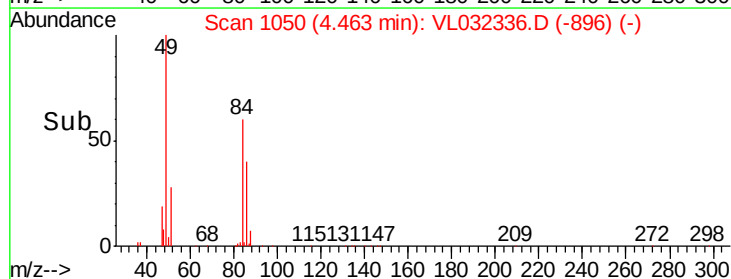
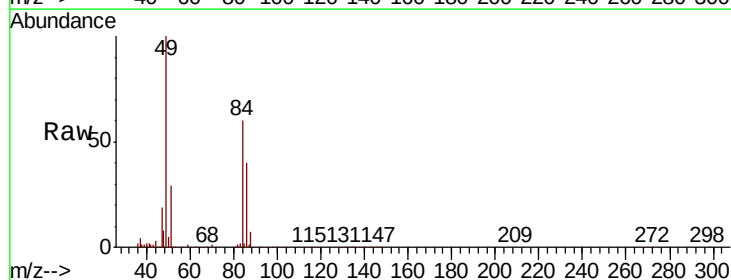
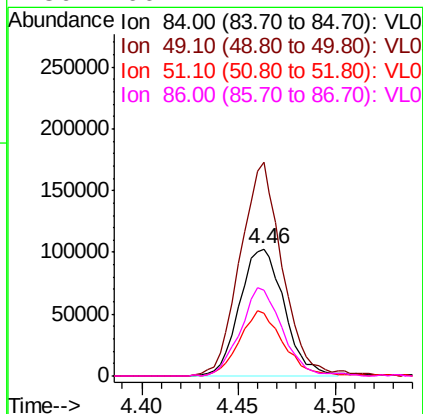
Ion Ratio Lower Upper

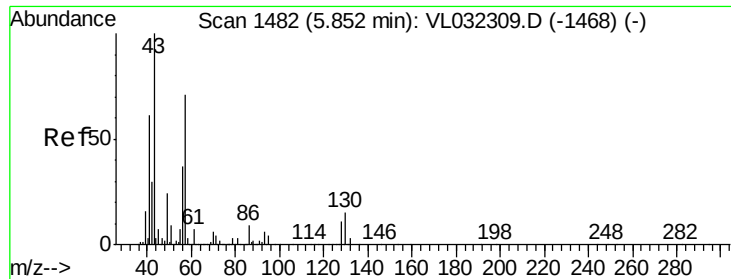
84 100

49 167.8 123.4 185.0

51 48.7 38.2 57.2

86 66.7 47.4 71.2





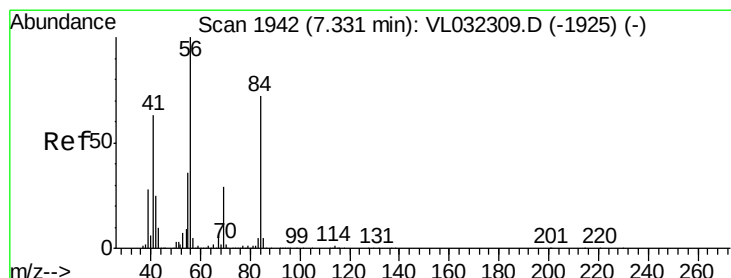
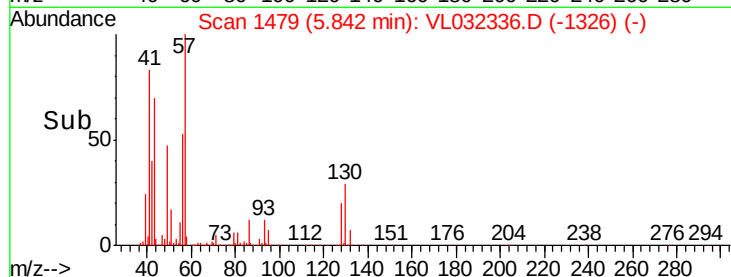
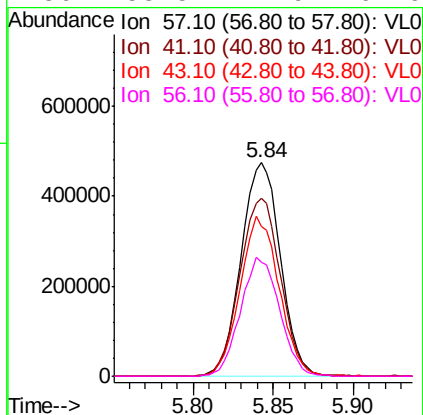
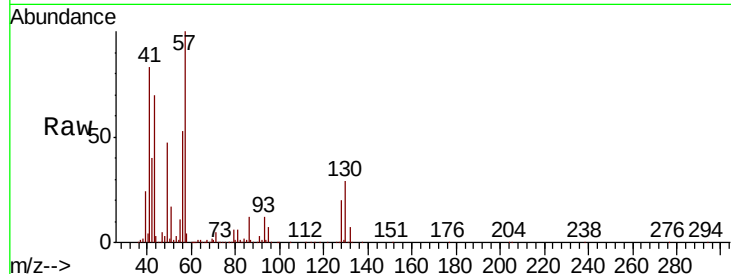
#26
Hexane
Concen: 4.77 ppbv
RT: 5.84 min Scan# 1479
Delta R.T. -0.01 min
Lab File: VL032336.D
Acq: 1 Aug 2018 23:58

Instrument :
MSVOA_L
ClientSampleId :
OUTSIDE-ROOF

Tot Ion	Ratio	Lower	Upper
57	100		
41	86.6	68.1	102.1
43	74.2	177.4	266.2#
56	55.5	41.9	62.9

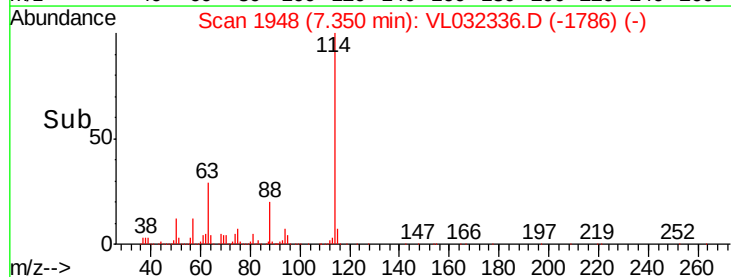
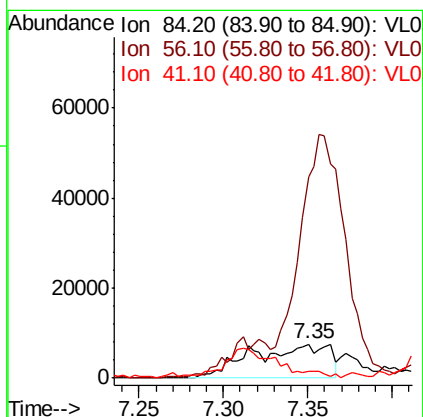
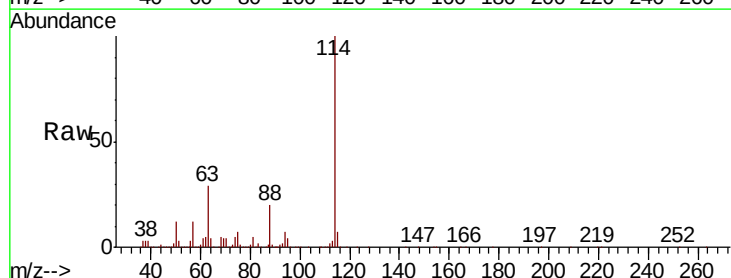
Manual Integrations
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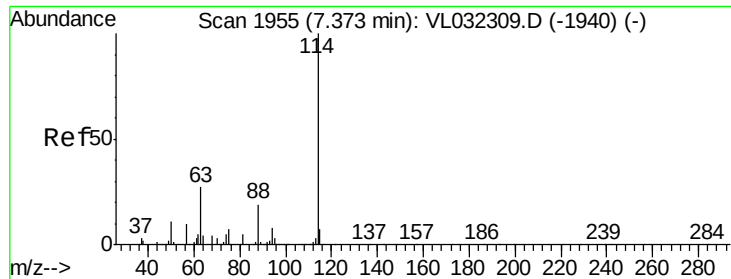
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#30
Cyclohexane
Concen: 0.18 ppbv m
RT: 7.35 min Scan# 1948
Delta R.T. 0.02 min
Lab File: VL032336.D
Acq: 1 Aug 2018 23:58

Tgt Ion	Ratio	Lower	Upper
84	100		
56	0.0	116.8	175.2#
41	67.7	70.0	105.0#





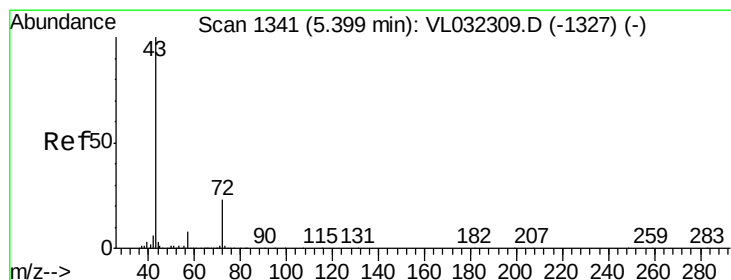
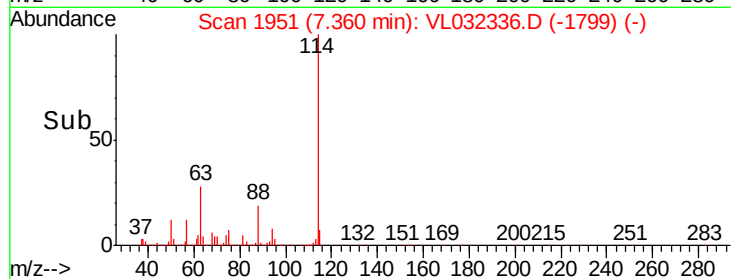
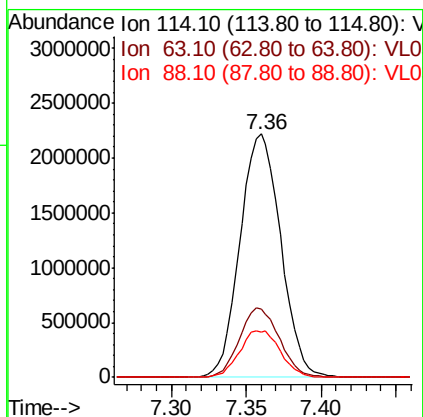
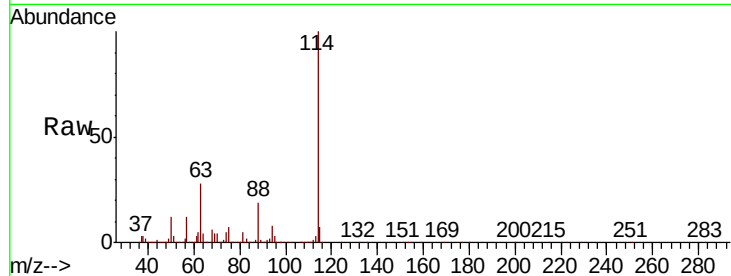
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.36 min Scan# 1951
 Delta R.T. -0.01 min
 Lab File: VL032336.D
 Acq: 1 Aug 2018 23:58

Instrument :
 MSVOA_L
 ClientSampleId :
 OUTSIDE-ROOF

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.1	22.4	33.6
88	19.2	15.3	22.9

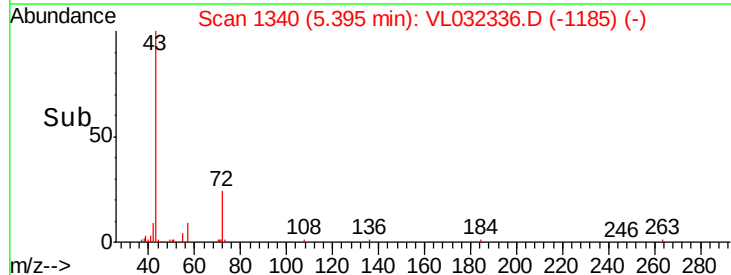
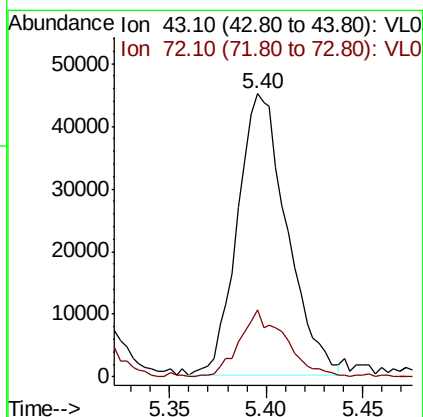
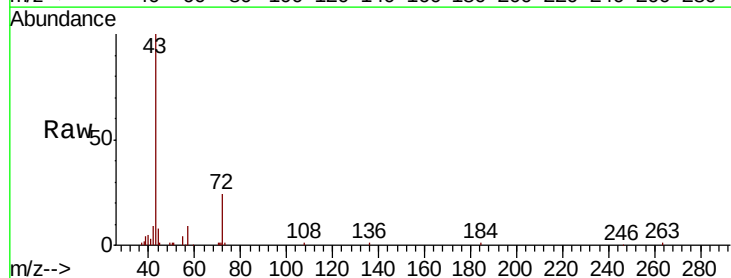
Manual Integrations
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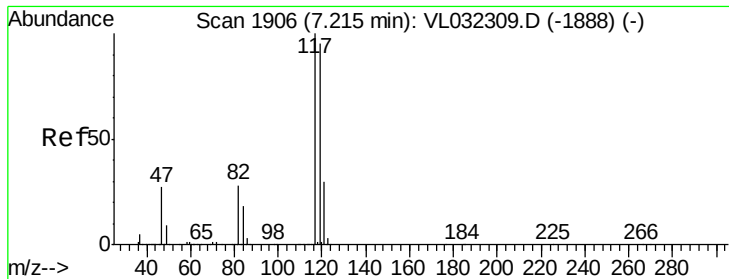
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#34
 2-Butanone
 Concen: 0.29 ppbv
 RT: 5.40 min Scan# 1340
 Delta R.T. -0.00 min
 Lab File: VL032336.D
 Acq: 1 Aug 2018 23:58

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.7	17.4	26.2





#35

Carbon Tetrachloride

Concen: 0.08 ppbv m

RT: 7.21 min Scan# 1904

Delta R.T. -0.01 min

Lab File: VL032336.D

Acq: 1 Aug 2018 23:58

Instrument :

MSVOA_L

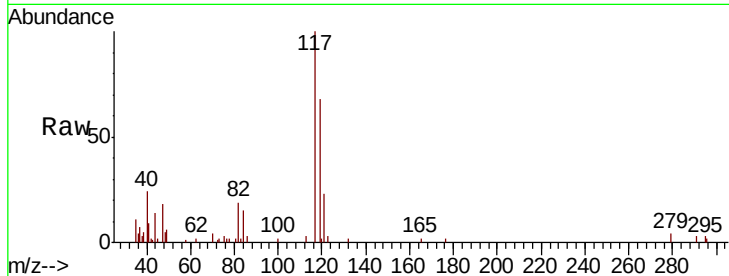
ClientSampleId :

OUTSIDE-ROOF

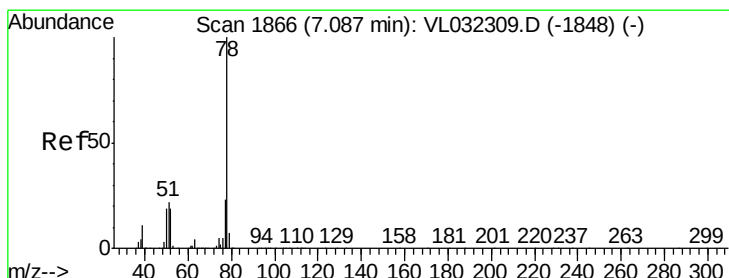
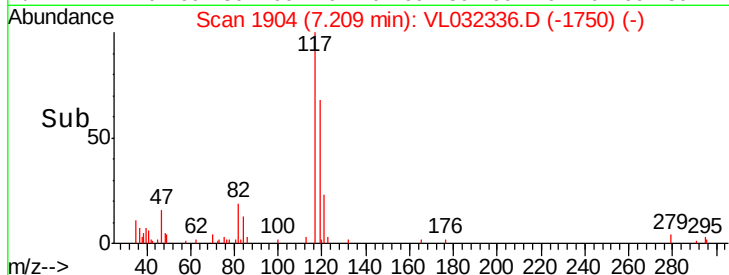
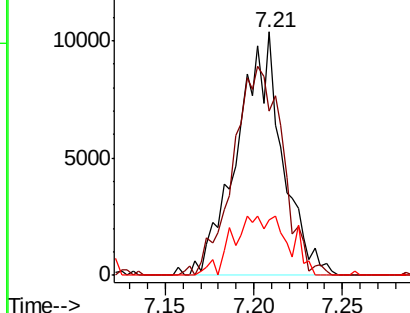
Tot Ion:	117	Resp:	18301
Ion Ratio	Lower	Upper	
117	100		
119	67.6	76.1	114.1#
121	22.8	24.4	36.6#

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Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.20 ppbv

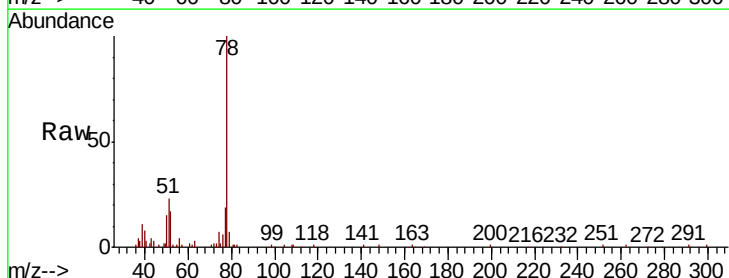
RT: 7.07 min Scan# 1861

Delta R.T. -0.02 min

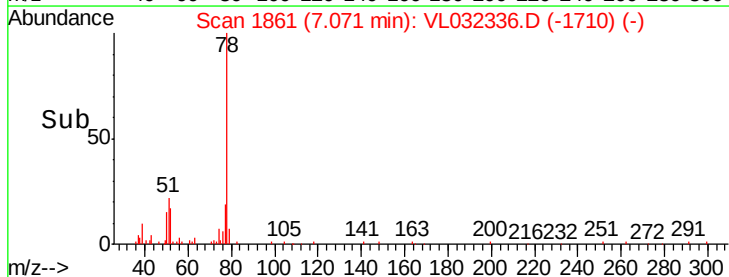
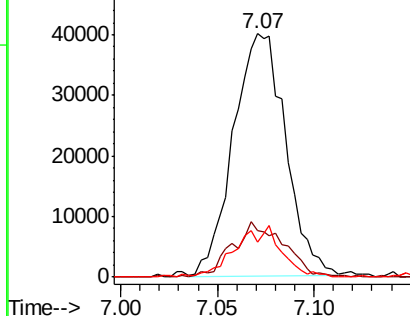
Lab File: VL032336.D

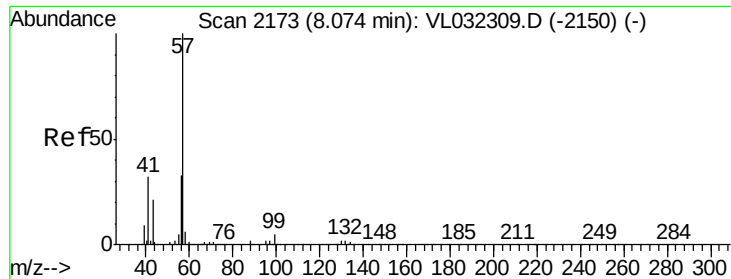
Acq: 1 Aug 2018 23:58

Tgt Ion:	78	Resp:	75504
Ion Ratio	Lower	Upper	
78	100		
77	18.5	18.4	27.6
50	14.2	15.3	22.9#



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0





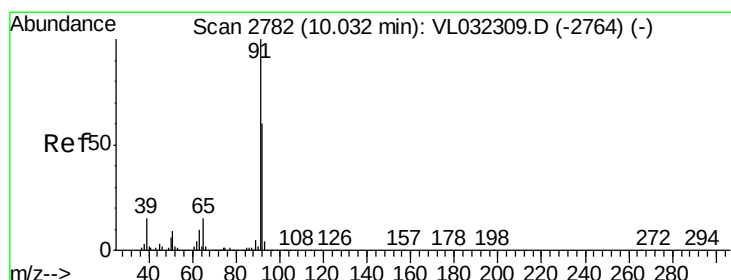
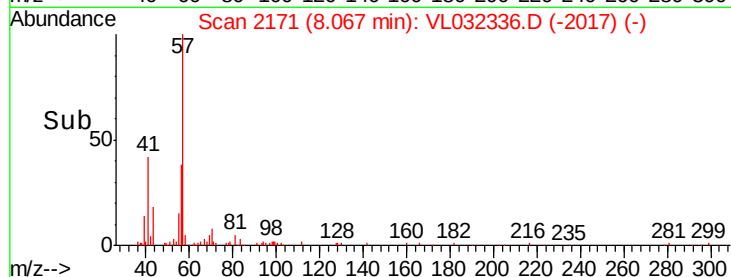
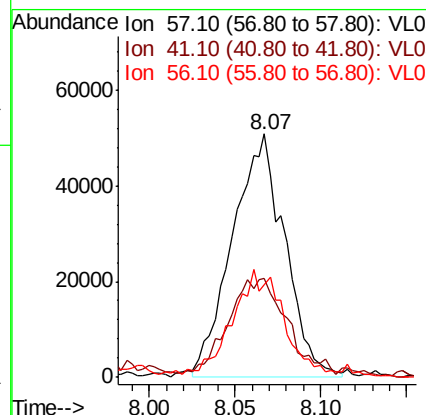
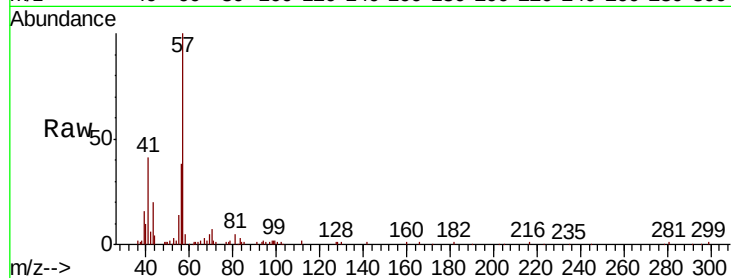
#44
 2,2,4-Trimethylpentane
 Concen: 0.13 ppbv
 RT: 8.07 min Scan# 2171
 Delta R.T. -0.01 min
 Lab File: VL032336.D
 Acq: 1 Aug 2018 23:58

Instrument :
 MSVOA_L
 ClientSampleId :
 OUTSIDE-ROOF

Tot Ion	Ratio	Lower	Upper
57	100		
41	45.0	24.3	36.5#
56	45.6	25.4	38.2#

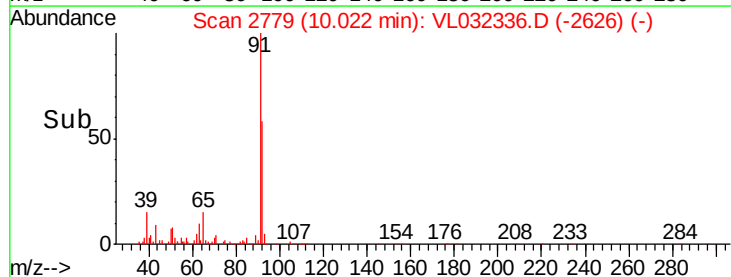
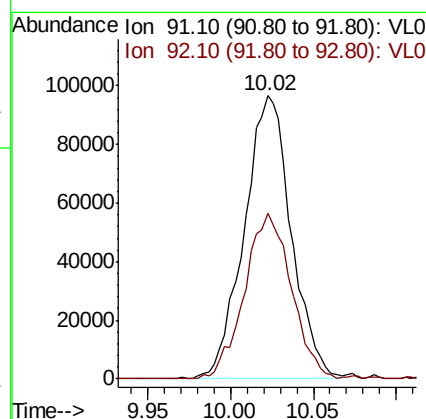
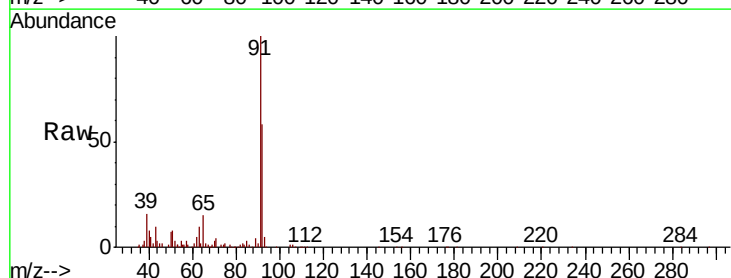
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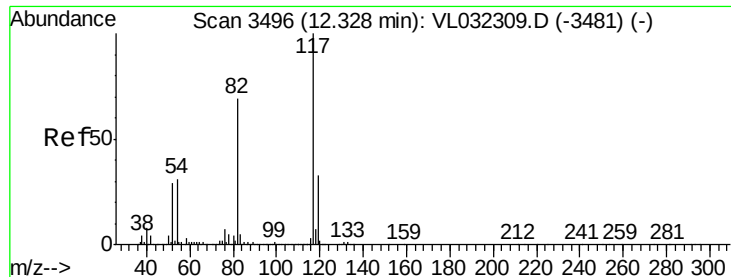
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#53
 Toluene
 Concen: 0.43 ppbv
 RT: 10.02 min Scan# 2779
 Delta R.T. -0.01 min
 Lab File: VL032336.D
 Acq: 1 Aug 2018 23:58

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.1	48.6	72.8





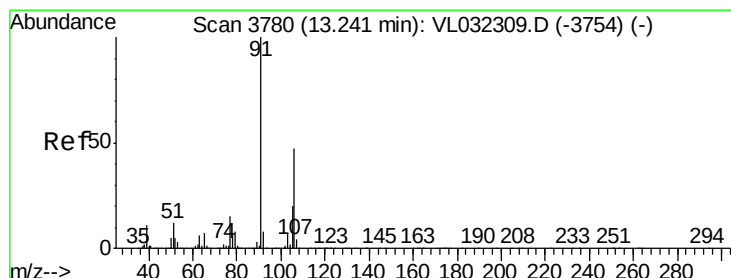
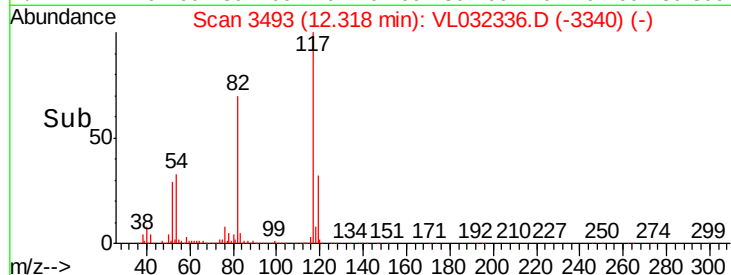
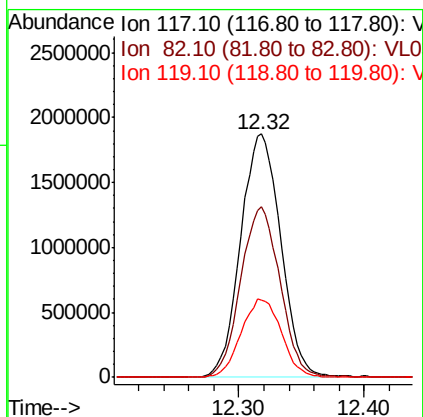
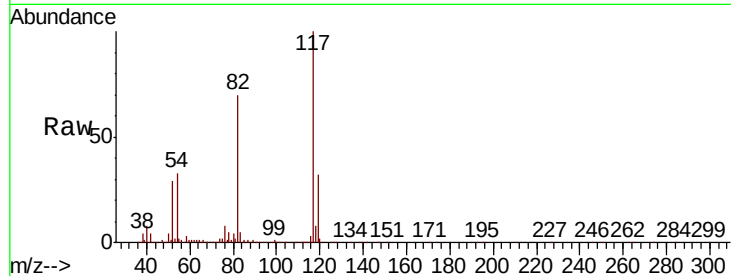
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.32 min Scan# 3493
Delta R.T. -0.01 min
Lab File: VL032336.D
Acq: 1 Aug 2018 23:58

Instrument :
MSVOA_L
ClientSampleId :
OUTSIDE-ROOF

Tot Ion	Ratio	Lower	Upper
117	100		
82	69.5	52.6	78.8
119	32.5	25.7	38.5

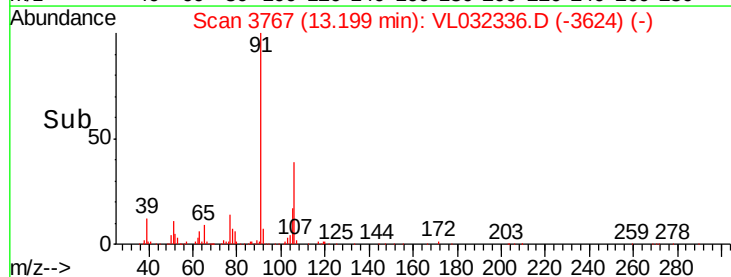
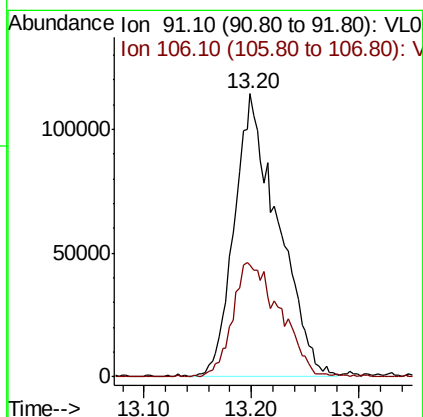
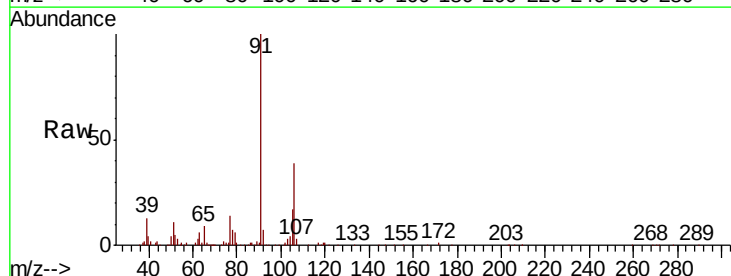
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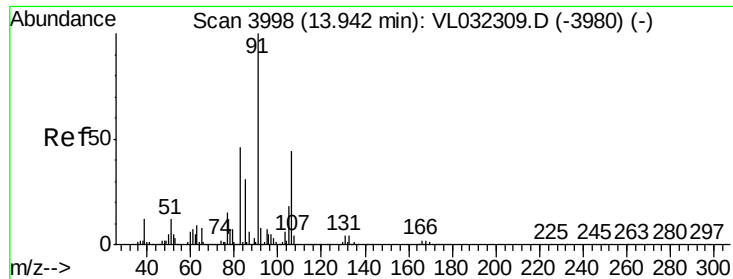
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#59
m/p-Xylene
Concen: 0.73 ppbv m
RT: 13.20 min Scan# 3767
Delta R.T. -0.04 min
Lab File: VL032336.D
Acq: 1 Aug 2018 23:58

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.4	54.6#





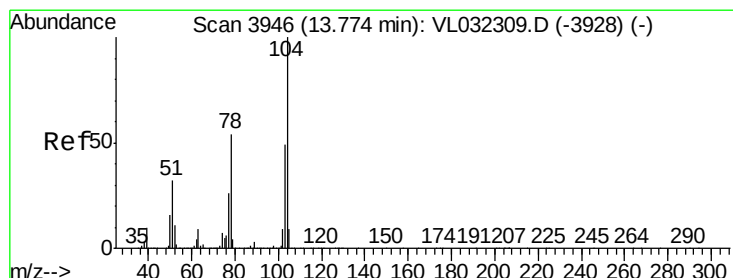
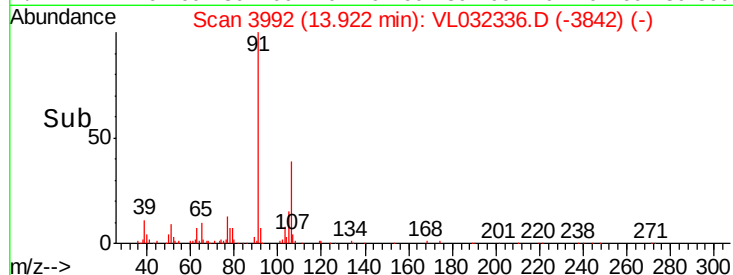
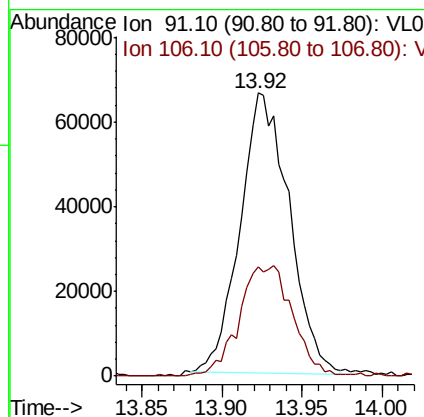
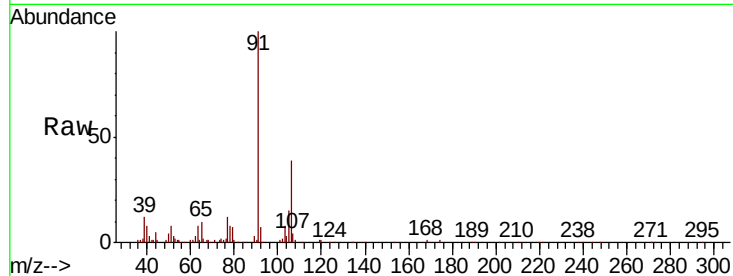
#60
o-Xylene
Concen: 0.32 ppbv
RT: 13.92 min Scan# 3992
Delta R.T. -0.02 min
Lab File: VL032336.D
Acq: 1 Aug 2018 23:58

Instrument :
MSVOA_L
ClientSampleId :
OUTSIDE-ROOF

Tot Ion	Ratio	Lower	Upper
91	100		
106	43.0	22.4	67.0

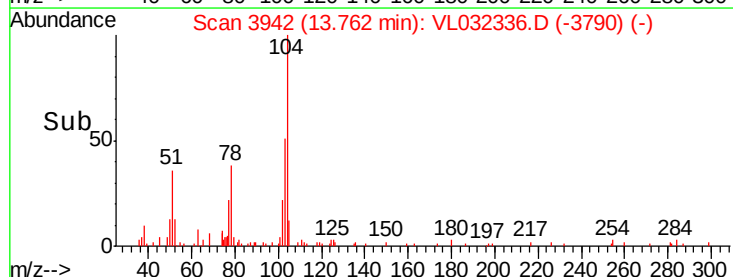
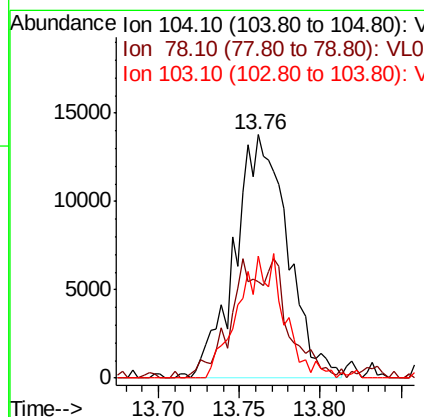
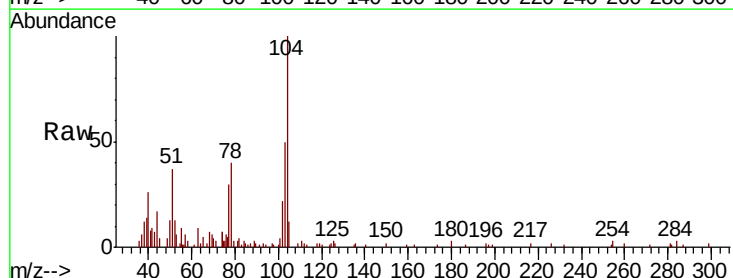
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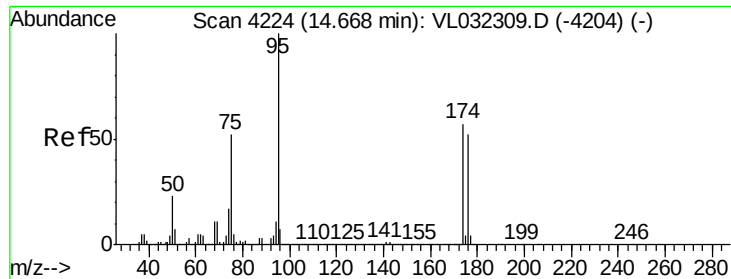
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#61
Styrene
Concen: 0.10 ppbv m
RT: 13.76 min Scan# 3942
Delta R.T. -0.01 min
Lab File: VL032336.D
Acq: 1 Aug 2018 23:58

Tgt Ion	Ratio	Lower	Upper
104	100		
78	0.0	42.6	63.8#
103	44.1	38.0	57.0





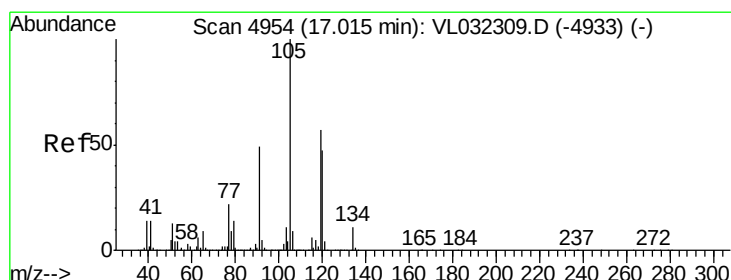
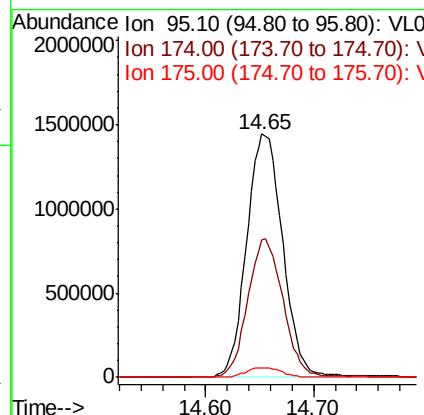
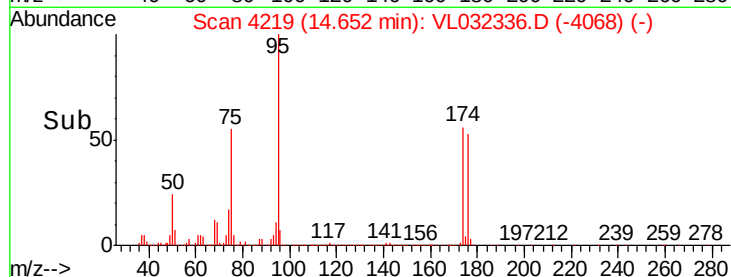
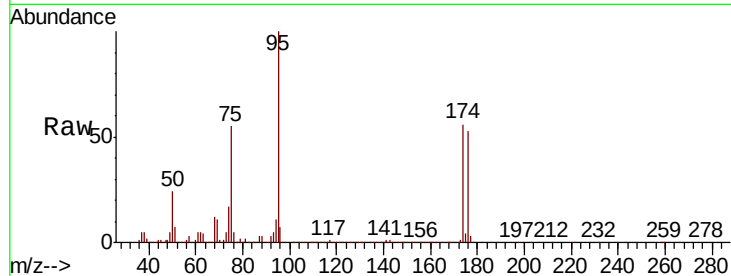
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.37 ppbv
 RT: 14.65 min Scan# 4219
 Delta R.T. -0.02 min
 Lab File: VL032336.D
 Acq: 1 Aug 2018 23:58

Instrument :
 MSVOA_L
 ClientSampleId :
 OUTSIDE-ROOF

Tot Ion: 95 Resp: 3351141
 Ion Ratio Lower Upper
 95 100
 174 56.3 45.5 68.3
 175 4.1 3.3 4.9

Manual Integrations
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#74
 1,2,4-Trimethylbenzene
 Concen: 0.25 ppbv
 RT: 17.01 min Scan# 4951
 Delta R.T. -0.01 min
 Lab File: VL032336.D
 Acq: 1 Aug 2018 23:58

Tgt Ion: 105 Resp: 124673
 Ion Ratio Lower Upper
 105 100
 120 38.3 37.8 56.6
 91 13.0 39.4 59.0#
 77 15.7 17.6 26.4#

