

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070218\
 Data File : VL032192.D
 Acq On : 2 Jul 2018 21:46
 Operator : SY/AP
 Sample : J3753-02DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MIDDLE

Manual Integrations
 APPROVED

MMDadoda
 7/3/2018 5:17:19 PM

Quant Time: Jul 03 15:25:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 29 2018
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.85	49	1437927	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	3697407	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	3427429	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.68	95	2594996	9.90	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.09	41	17576m	0.21	ppbv	
12) 1,1,2-Trichlorotrifluoroet	4.62	101	24598	0.18	ppbv	94
13) Ethanol	3.71	45	1353015	54.50	ppbv	99
15) Acetone	3.97	43	779153	4.63	ppbv	99
17) tert-Butyl alcohol	4.44	59	108472m	1.01	ppbv	
19) Isopropyl Alcohol	4.10	45	759133m	5.43	ppbv	
24) 1,1-Dichloroethane	5.17	63	212596	1.09	ppbv	98
26) Hexane	5.86	57	30375m	0.19	ppbv	
32) 1,1,1-Trichloroethane	6.70	97	2231879	9.13	ppbv	98
34) 2-Butanone	5.41	43	129641	0.55	ppbv	98
44) 2,2,4-Trimethylpentane	8.09	57	131495	0.21	ppbv #	89
53) Toluene	10.05	91	168617	0.39	ppbv	99
59) m/p-Xylene	13.22	91	153123m	0.35	ppbv	
60) o-Xylene	13.94	91	60058	0.14	ppbv	95
69) p-Isopropyltoluene	17.91	119	120035	0.17	ppbv #	90
74) 1,2,4-Trimethylbenzene	17.02	105	74691m	0.14	ppbv	

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

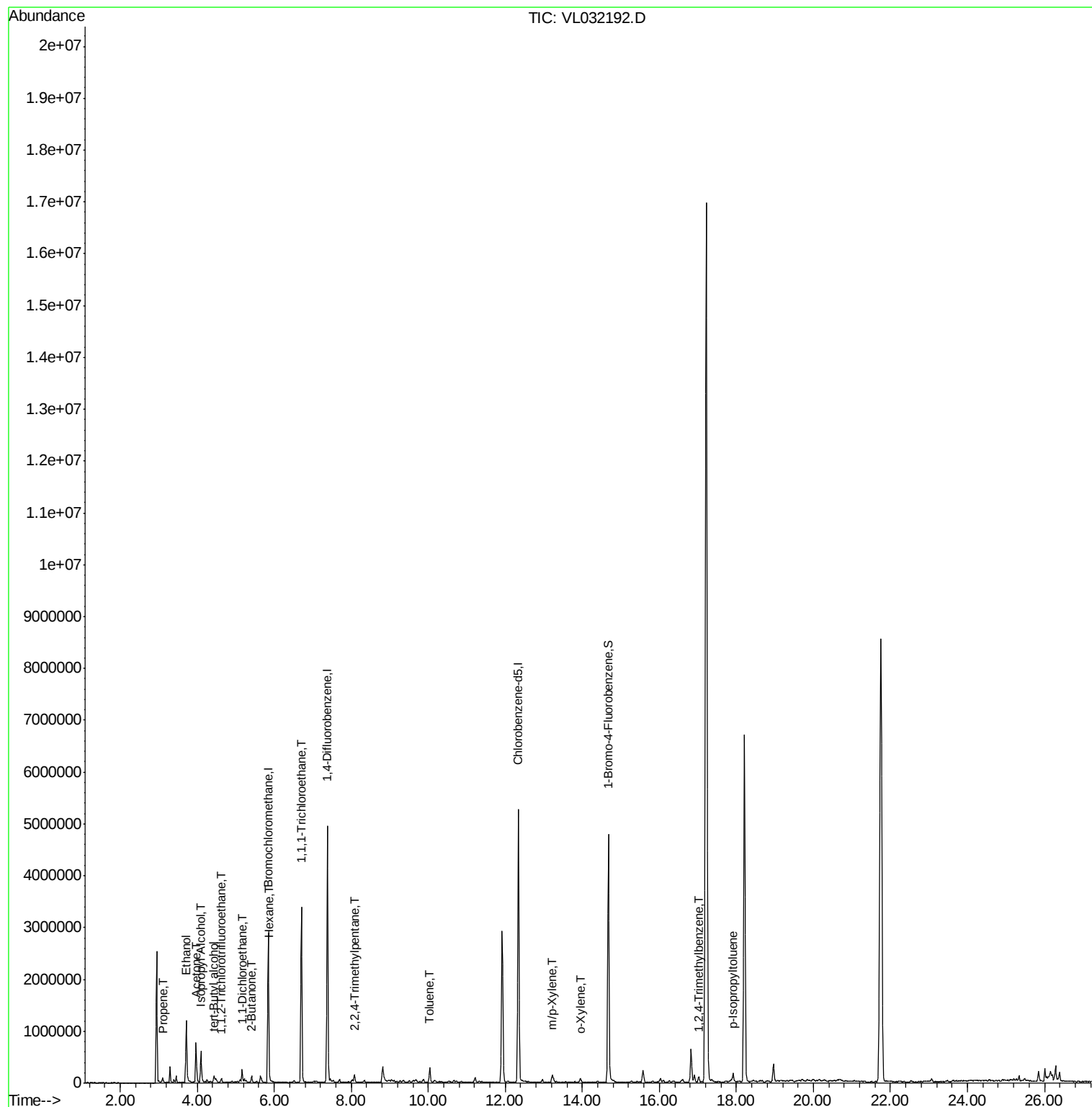
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL070218\
Data File : VL032192.D
Acq On : 2 Jul 2018 21:46
Operator : SY/AP
Sample : J3753-02DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

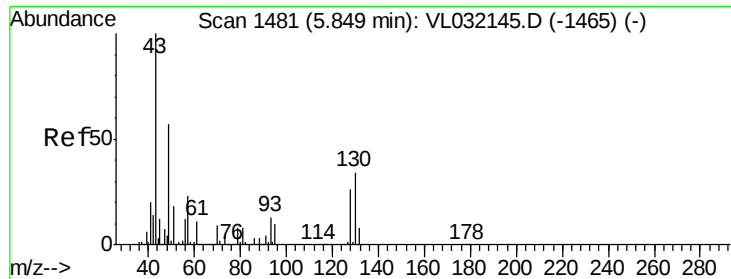
Instrument :
MSVOA_L
ClientSampleId :
MIDDLE

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Quant Time: Jul 03 15:25:14 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun
QLast Update : Fri Jun 29 22:27:58 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.85 min Scan# 1480

Delta R.T. -0.02 min

Lab File: VL032192.D

Acq: 2 Jul 2018 21:46

Instrument :

MSVOA_L

ClientSampleId :

MIDDLE

Tot Ion: 49 Resp: 1437927

Ion Ratio Lower Upper

49 100

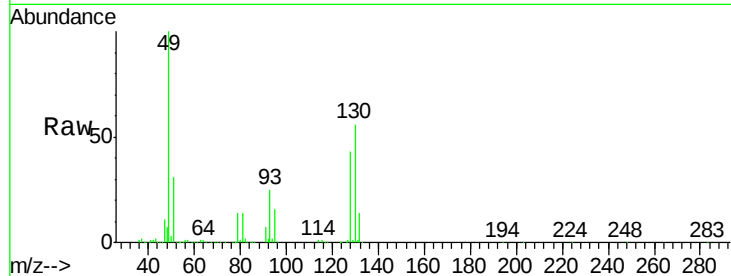
128 45.2 23.4 70.0

130 58.2 30.3 90.9

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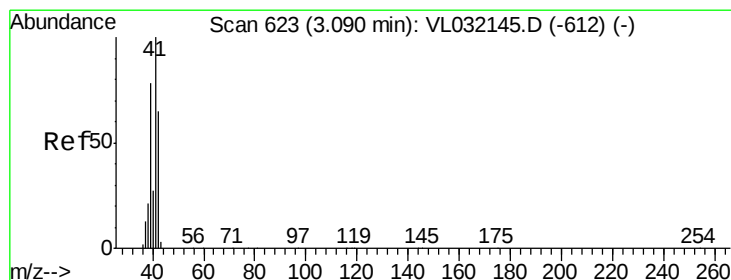
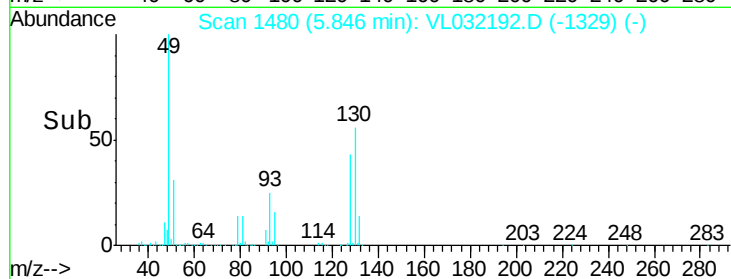
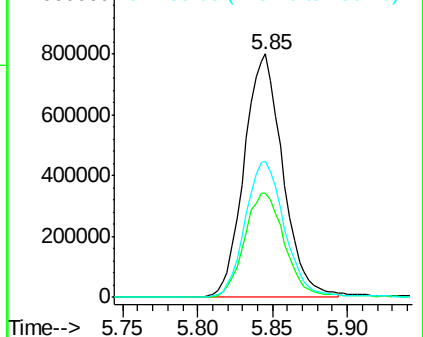
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#9

Propene

Concen: 0.21 ppbv m

RT: 3.09 min Scan# 624

Delta R.T. -0.01 min

Lab File: VL032192.D

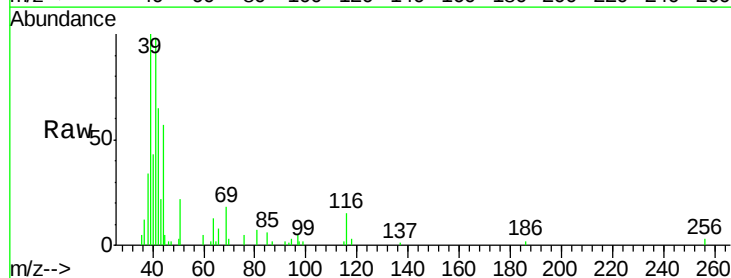
Acq: 2 Jul 2018 21:46

Tgt Ion: 41 Resp: 17576

Ion Ratio Lower Upper

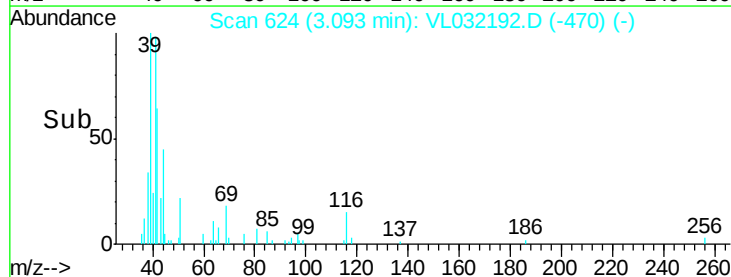
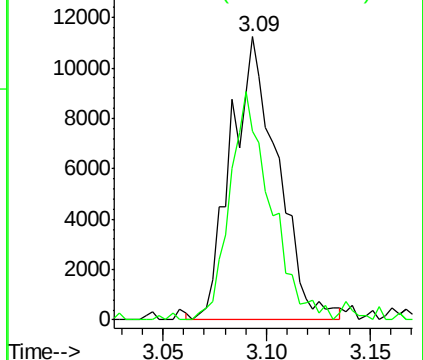
41 100

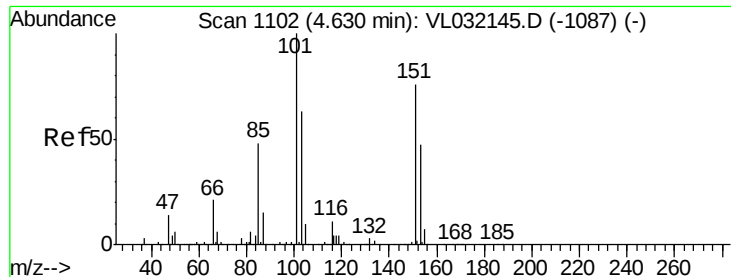
42 73.6 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.18 ppbv

RT: 4.62 min Scan# 1100

Delta R.T. -0.02 min

Lab File: VL032192.D

Acq: 2 Jul 2018 21:46

Instrument :

MSVOA_L

ClientSampleId :

MIDDLE

Tot Ion:101 Resp: 24598

Ion Ratio Lower Upper

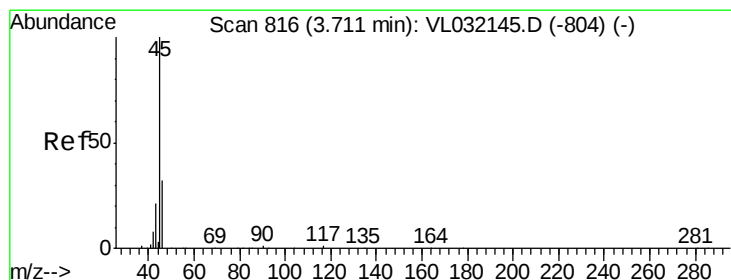
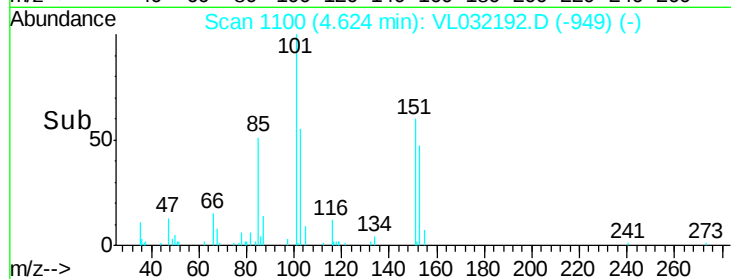
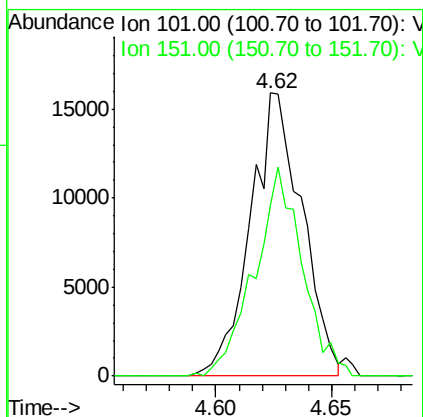
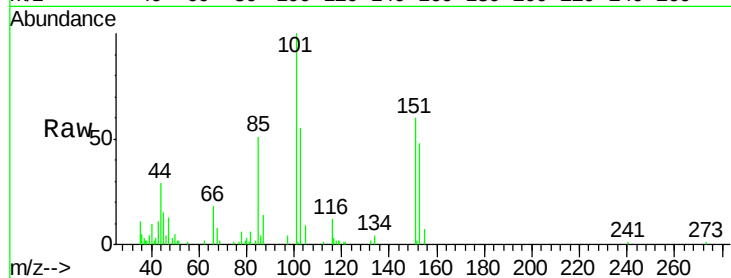
101 100

151 68.4 58.8 88.2

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#13

Ethanol

Concen: 54.50 ppbv

RT: 3.71 min Scan# 817

Delta R.T. -0.01 min

Lab File: VL032192.D

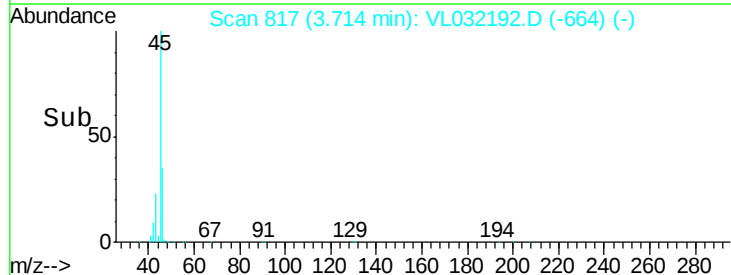
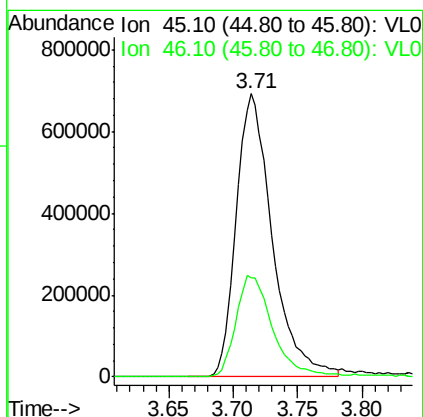
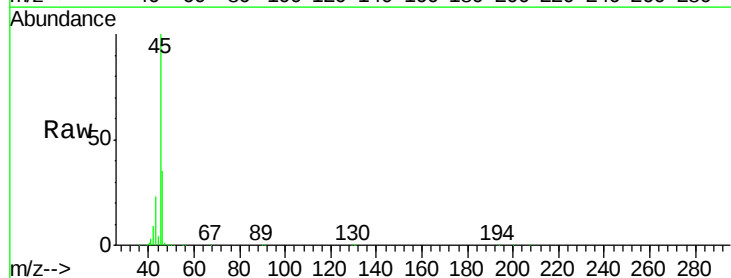
Acq: 2 Jul 2018 21:46

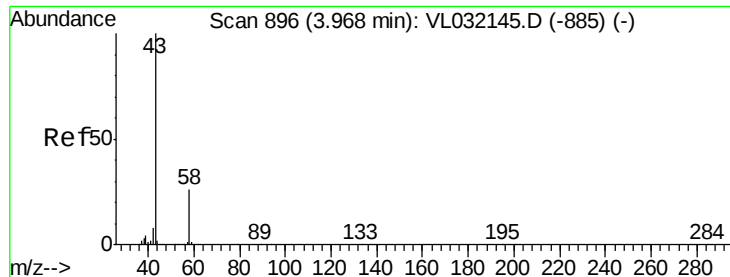
Tgt Ion: 45 Resp: 1353015

Ion Ratio Lower Upper

45 100

46 37.2 14.6 58.4





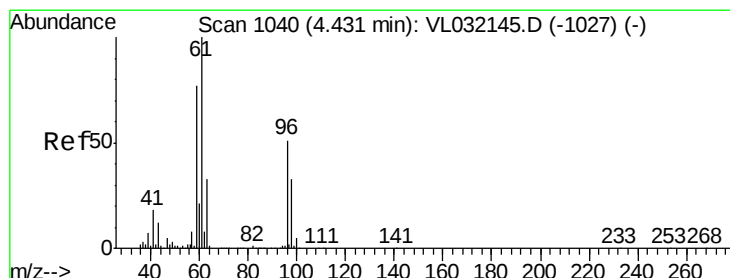
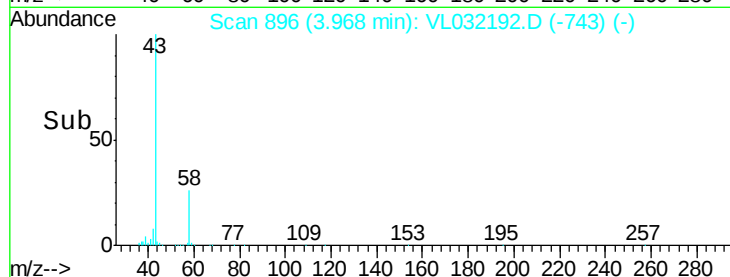
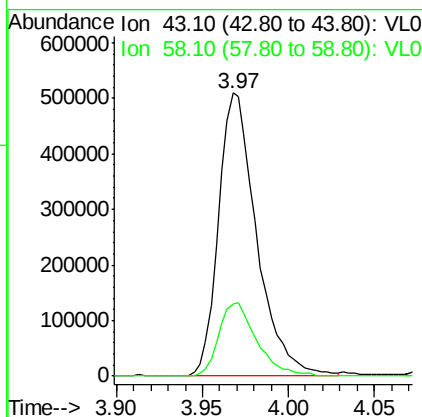
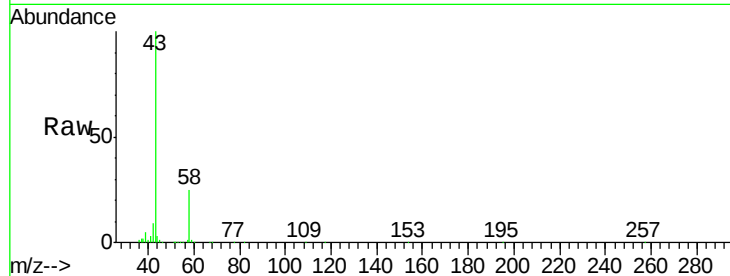
#15
Acetone
Concen: 4.63 ppbv
RT: 3.97 min Scan# 896
Delta R.T. -0.01 min
Lab File: VL032192.D
Acq: 2 Jul 2018 21:46

Instrument :
MSVOA_L
ClientSampled :
MIDDLE

Tot Ion: 43 Resp: 779153
Ion Ratio Lower Upper
43 100
58 26.3 21.4 32.0

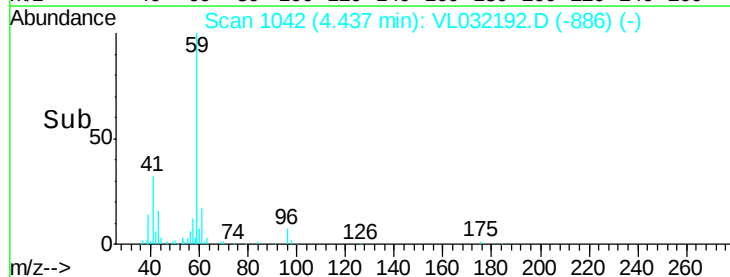
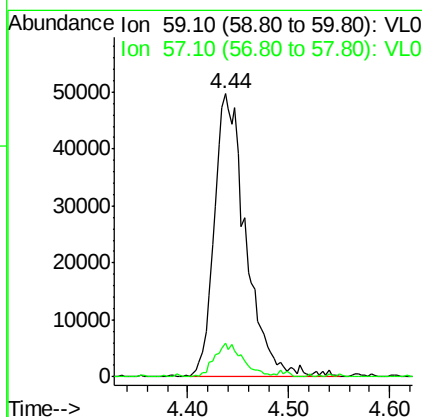
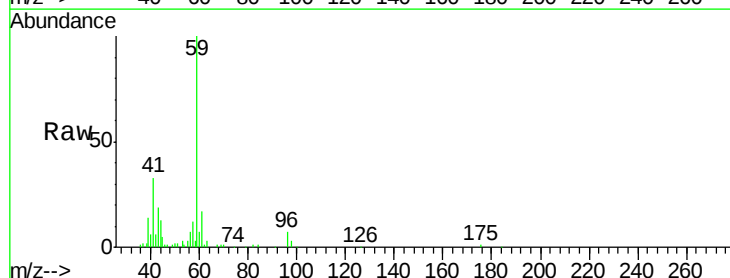
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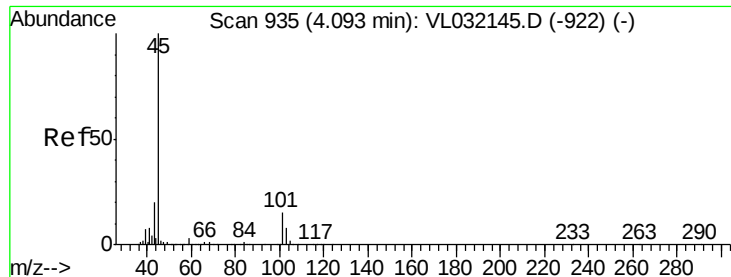
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#17
tert-Butyl alcohol
Concen: 1.01 ppbv m
RT: 4.44 min Scan# 1042
Delta R.T. 0.00 min
Lab File: VL032192.D
Acq: 2 Jul 2018 21:46

Tgt Ion: 59 Resp: 108472
Ion Ratio Lower Upper
59 100
57 11.4 8.2 12.2





#19

Isopropyl Alcohol

Concen: 5.43 ppbv m

RT: 4.10 min Scan# 937

Delta R.T. -0.00 min

Lab File: VL032192.D

Acq: 2 Jul 2018 21:46

Instrument :

MSVOA_L

ClientSampleId :

MIDDLE

Tot Ion: 45 Resp: 759133

Ion Ratio Lower Upper

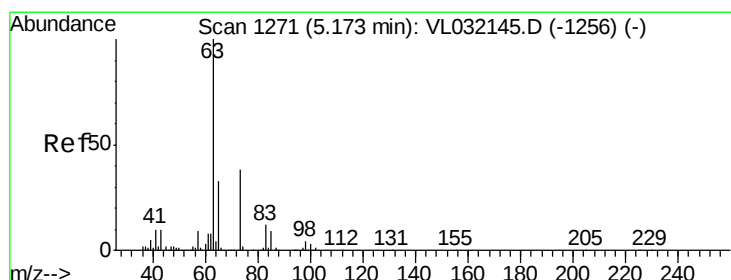
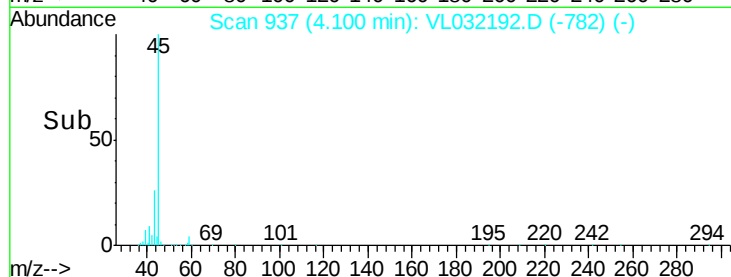
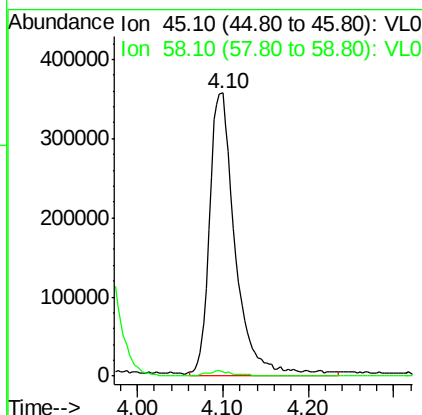
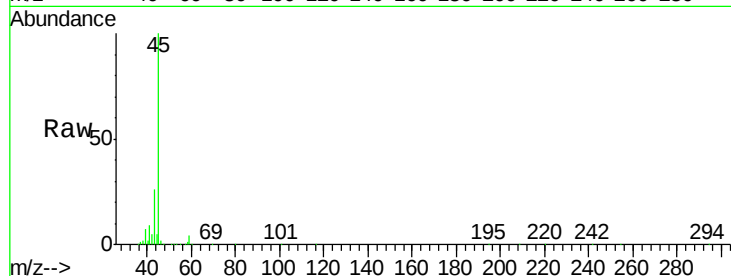
45 100

58 0.0 29.4 44.0#

Manual Integrations
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#24

1,1-Dichloroethane

Concen: 1.09 ppbv

RT: 5.17 min Scan# 1270

Delta R.T. -0.01 min

Lab File: VL032192.D

Acq: 2 Jul 2018 21:46

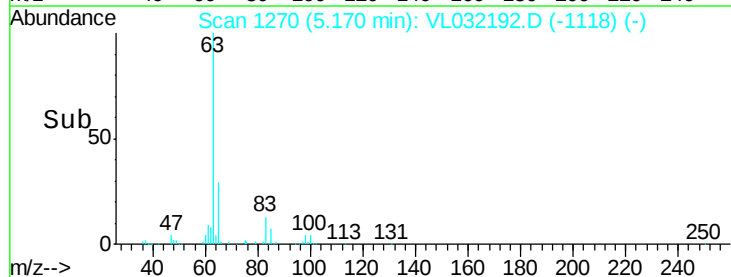
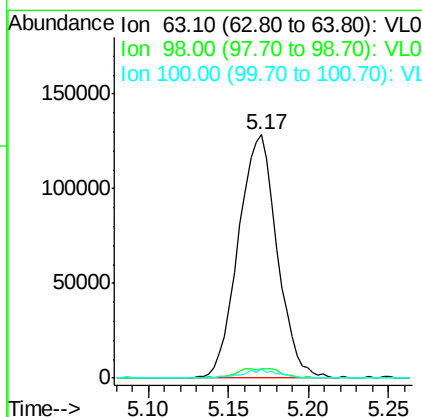
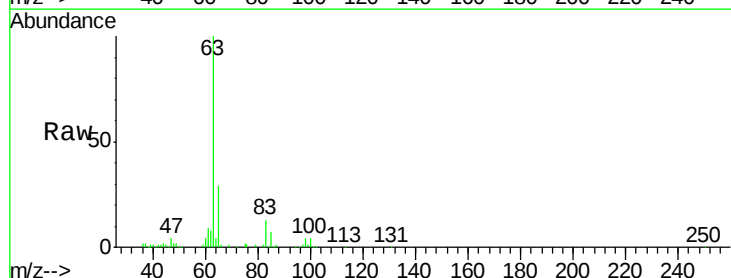
Tgt Ion: 63 Resp: 212596

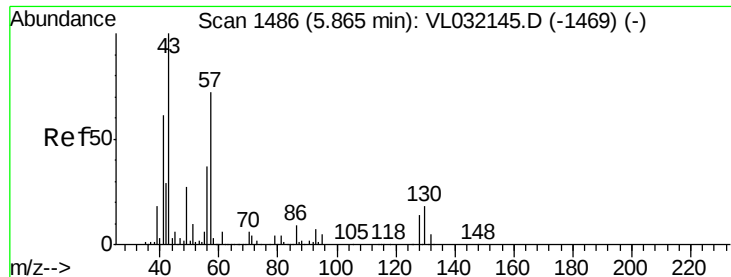
Ion Ratio Lower Upper

63 100

98 4.0 2.4 7.2

100 3.9 1.7 5.0





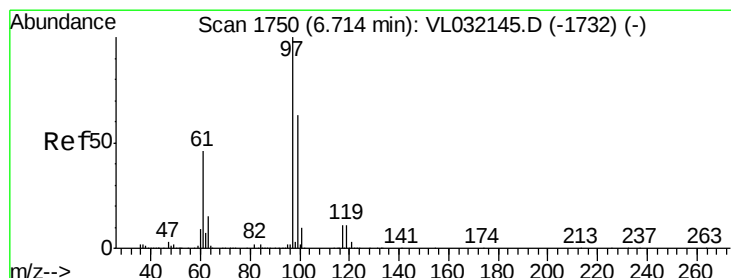
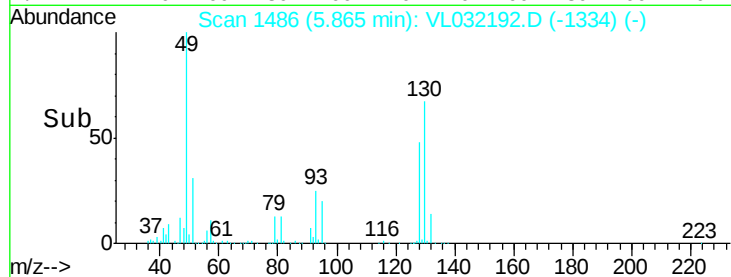
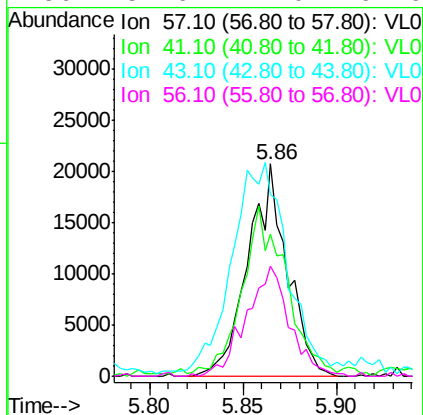
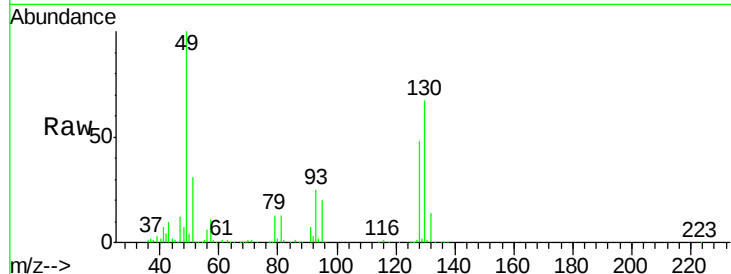
#26
Hexane
Concen: 0.19 ppbv m
RT: 5.86 min Scan# 1486
Delta R.T. -0.01 min
Lab File: VL032192.D
Acq: 2 Jul 2018 21:46

Instrument :
MSVOA_L
ClientSampleId :
MIDDLE

Tot Ion	Ratio	Lower	Upper
57	100		
41	0.0	68.6	103.0#
43	137.8	168.6	252.8#
56	57.6	41.0	61.6

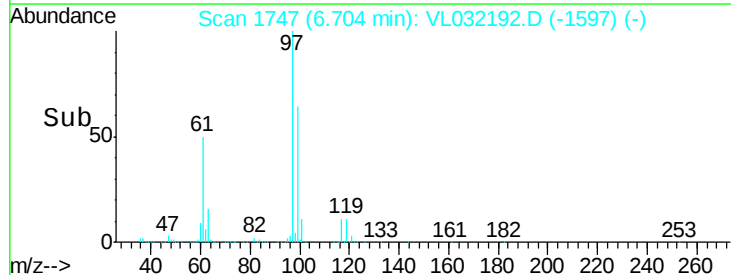
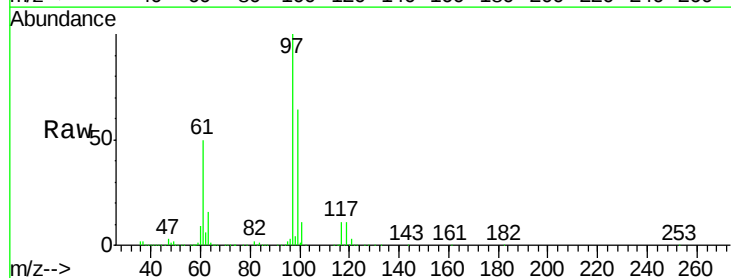
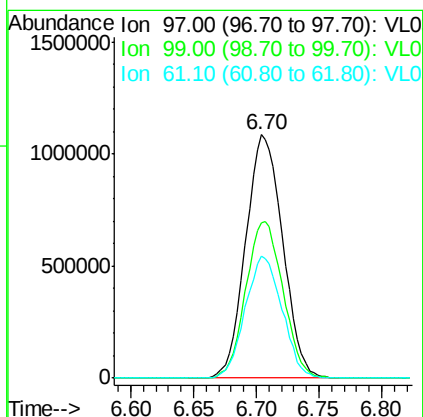
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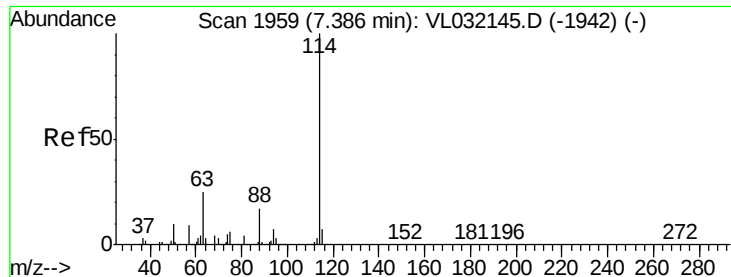
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#32
1,1,1-Trichloroethane
Concen: 9.13 ppbv
RT: 6.70 min Scan# 1747
Delta R.T. -0.02 min
Lab File: VL032192.D
Acq: 2 Jul 2018 21:46

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.3	76.9
61	50.0	38.4	57.6





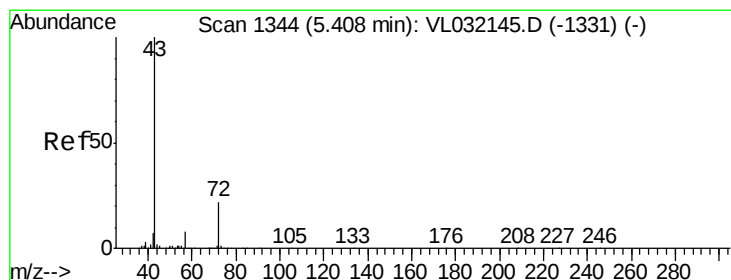
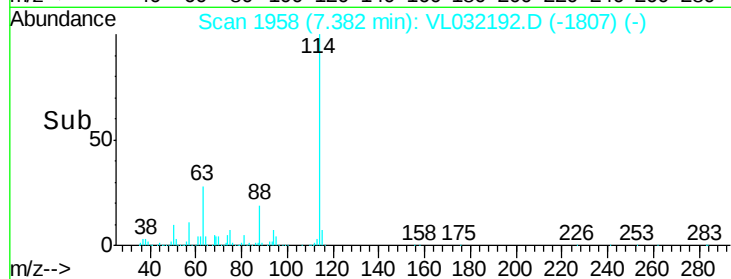
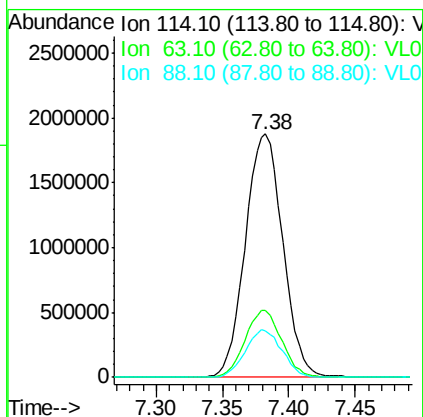
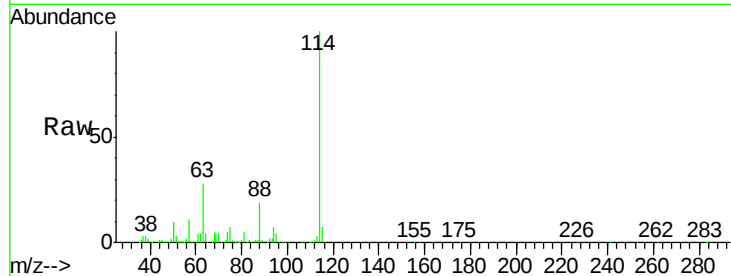
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.38 min Scan# 1958
 Delta R.T. -0.02 min
 Lab File: VL032192.D
 Acq: 2 Jul 2018 21:46

Instrument :
 MSVOA_L
 ClientSampleId :
 MIDDLE

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.0	19.1	28.7
88	19.3	13.9	20.9

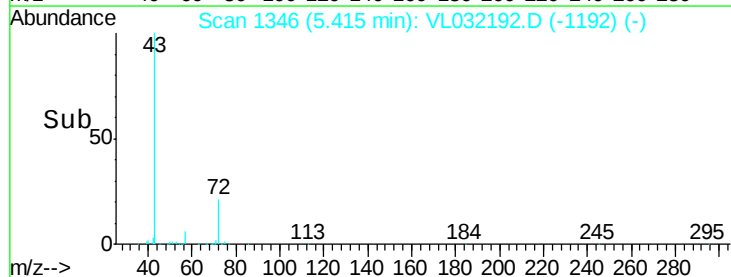
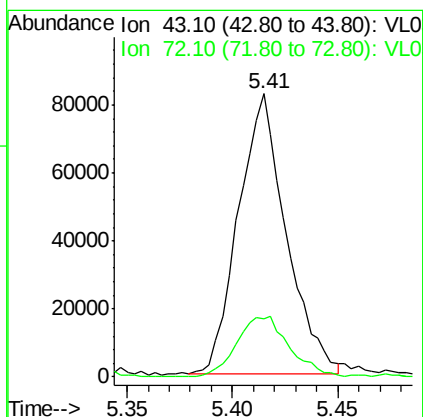
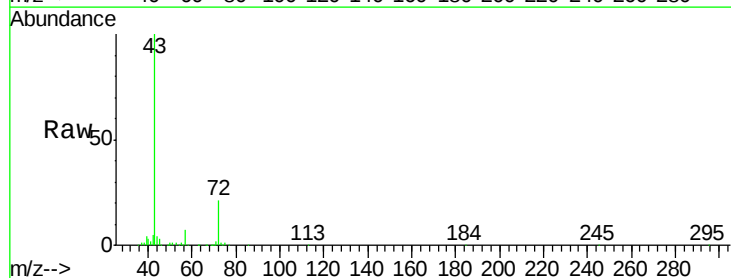
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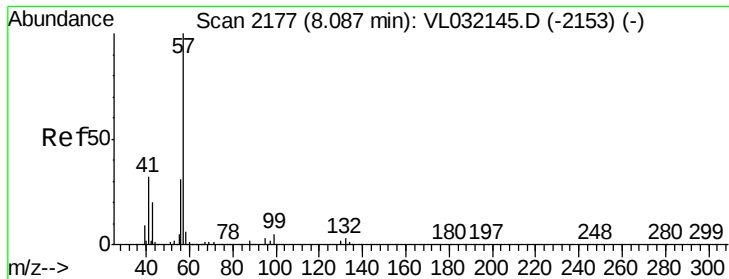
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#34
 2-Butanone
 Concen: 0.55 ppbv
 RT: 5.41 min Scan# 1346
 Delta R.T. -0.01 min
 Lab File: VL032192.D
 Acq: 2 Jul 2018 21:46

Tgt Ion	Ratio	Lower	Upper
43	100		
72	24.1	18.4	27.6





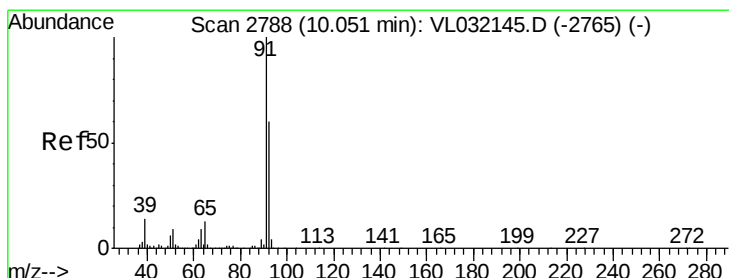
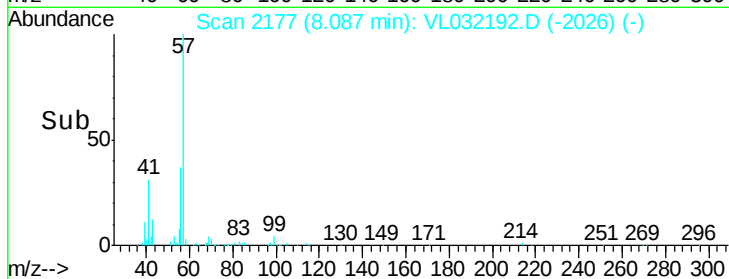
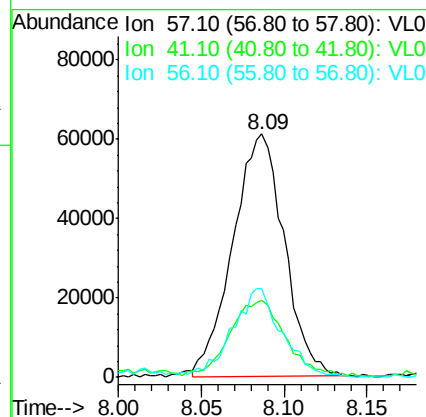
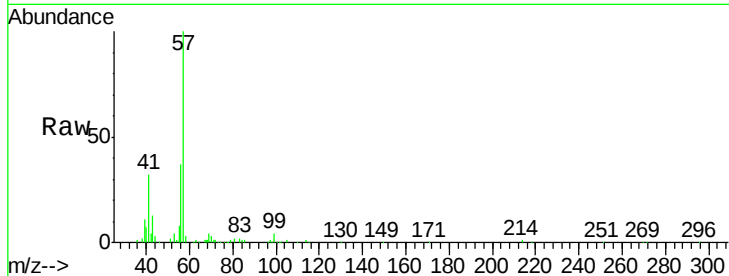
#44
 2,2,4-Trimethylpentane
 Concen: 0.21 ppbv
 RT: 8.09 min Scan# 2177
 Delta R.T. -0.02 min
 Lab File: VL032192.D
 Acq: 2 Jul 2018 21:46

Instrument :
 MSVOA_L
 ClientSampleId :
 MIDDLE

Tot Ion	Ratio	Lower	Upper
57	100		
41	35.3	24.3	36.5
56	38.9	25.1	37.7

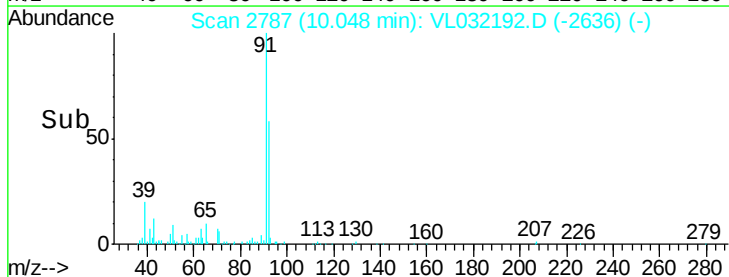
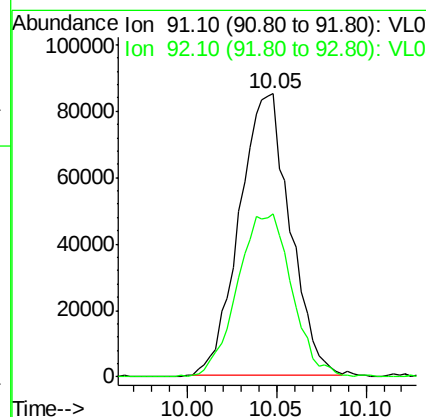
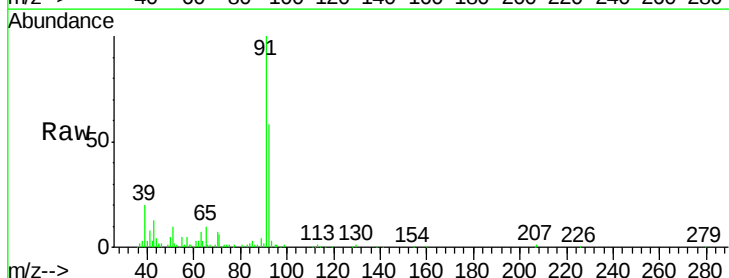
Manual Integrations
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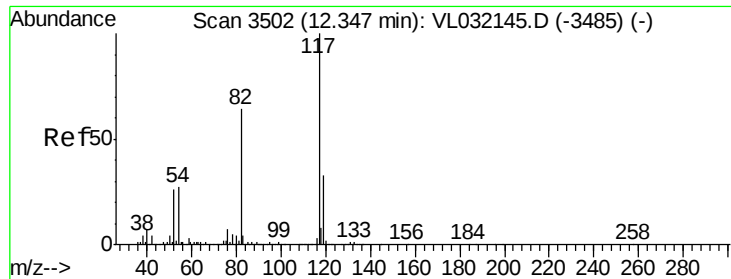
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 7/3/2018 5:17:19 PM



#53
 Toluene
 Concen: 0.39 ppbv
 RT: 10.05 min Scan# 2787
 Delta R.T. -0.02 min
 Lab File: VL032192.D
 Acq: 2 Jul 2018 21:46

Tgt Ion	Ratio	Lower	Upper
91	100		
92	62.1	49.2	73.8





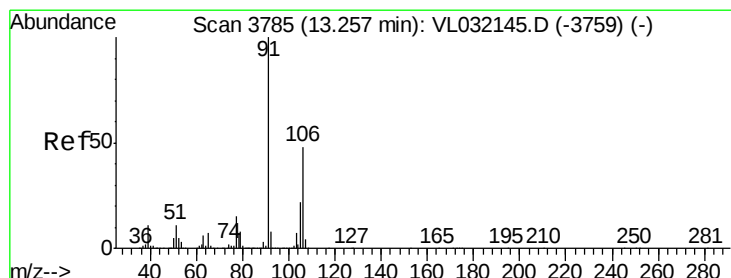
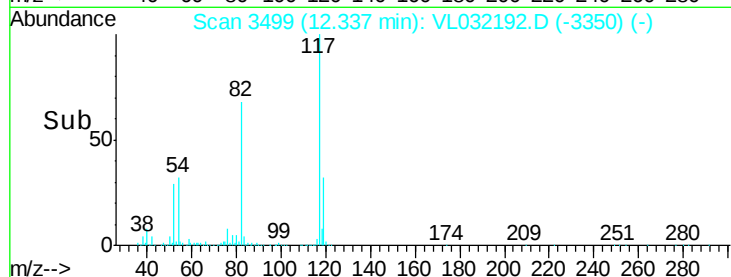
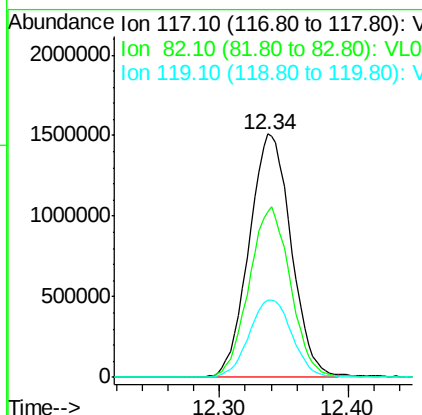
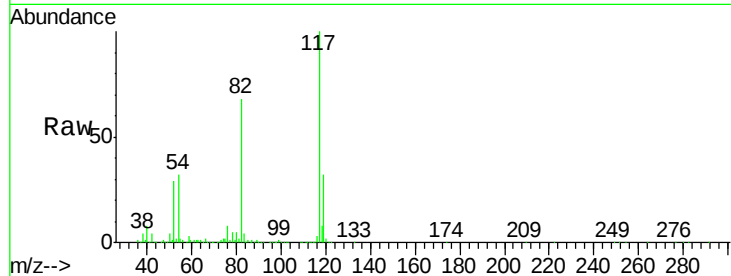
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.34 min Scan# 3499
Delta R.T. -0.02 min
Lab File: VL032192.D
Acq: 2 Jul 2018 21:46

Instrument :
MSVOA_L
ClientSampleId :
MIDDLE

Tot Ion	Ratio	Lower	Upper
117	100		
82	69.9	47.8	71.8
119	32.6	43.3	64.9#

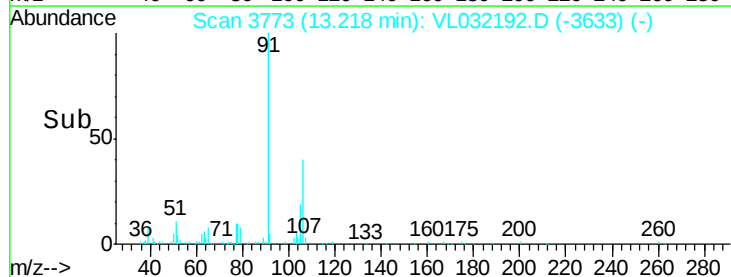
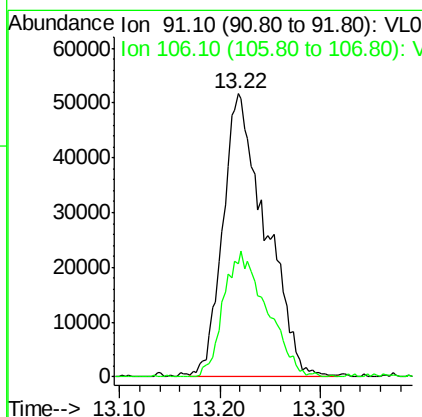
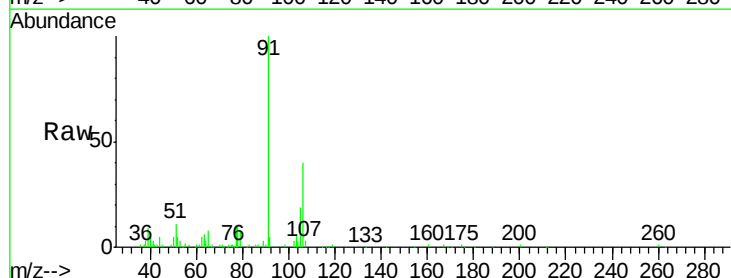
Manual Integrations
APPROVED

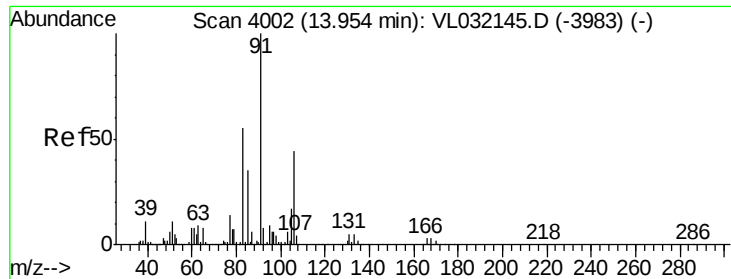
MMDadoda
7/3/2018 5:17:19 PM



#59
m/p-Xylene
Concen: 0.35 ppbv m
RT: 13.22 min Scan# 3773
Delta R.T. -0.05 min
Lab File: VL032192.D
Acq: 2 Jul 2018 21:46

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	38.6	58.0#





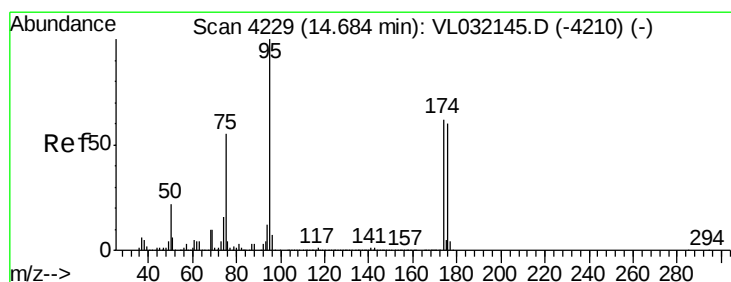
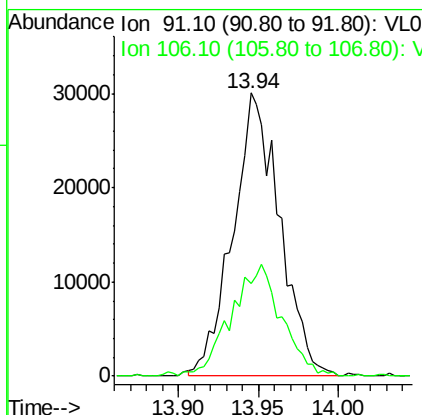
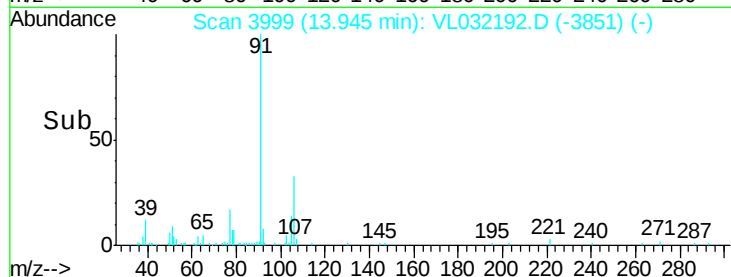
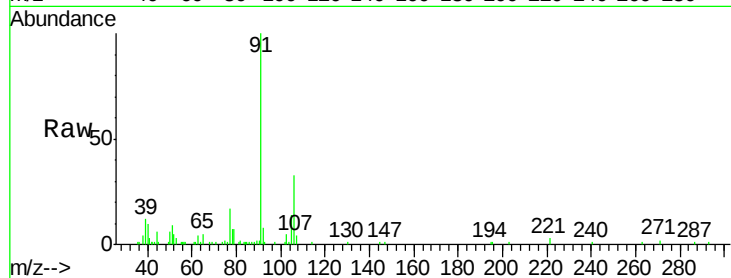
#60
o-Xylene
Concen: 0.14 ppbv
RT: 13.94 min Scan# 3999
Delta R.T. -0.03 min
Lab File: VL032192.D
Acq: 2 Jul 2018 21:46

Instrument :
MSVOA_L
ClientSampleId :
MIDDLE

Tot Ion: 91 Resp: 60058
Ion Ratio Lower Upper
91 100
106 43.0 23.3 69.8

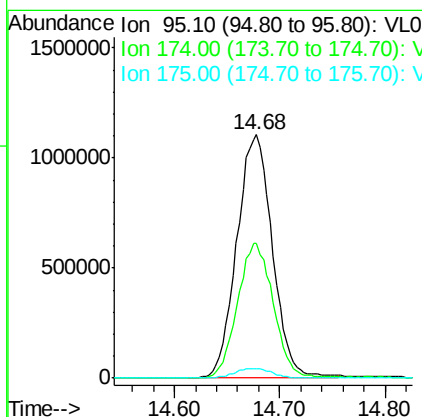
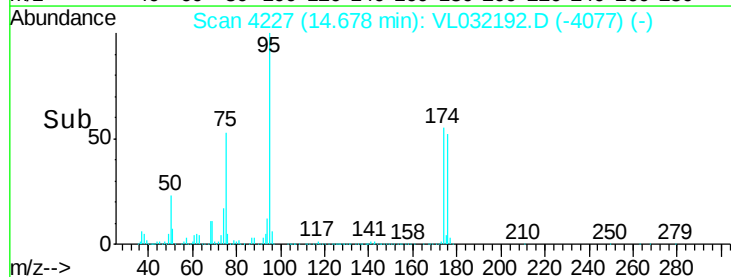
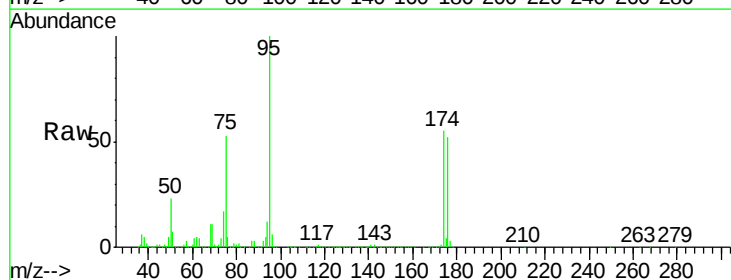
Manual Integrations
APPROVED

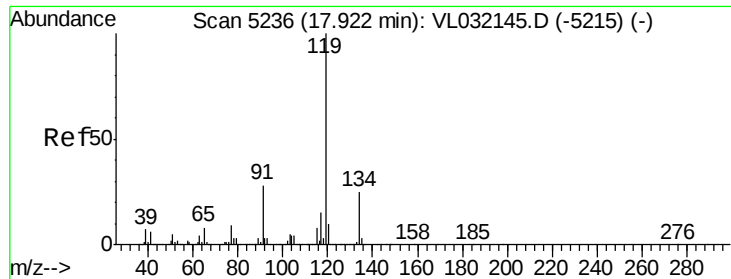
MMDadoda
7/3/2018 5:17:19 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 9.90 ppbv
RT: 14.68 min Scan# 4227
Delta R.T. -0.02 min
Lab File: VL032192.D
Acq: 2 Jul 2018 21:46

Tgt Ion: 95 Resp: 2594996
Ion Ratio Lower Upper
95 100
174 56.1 52.1 78.1
175 4.1 4.0 6.0





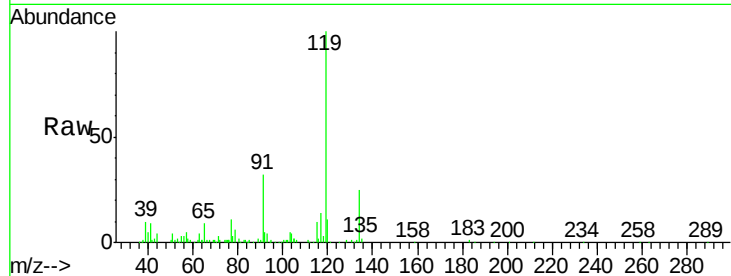
#69
 p-Isopropyltoluene
 Concen: 0.17 ppbv
 RT: 17.91 min Scan# 5233
 Delta R.T. -0.02 min
 Lab File: VL032192.D
 Acq: 2 Jul 2018 21:46

Instrument :
 MSVOA_L
 ClientSampleId :
 MIDDLE

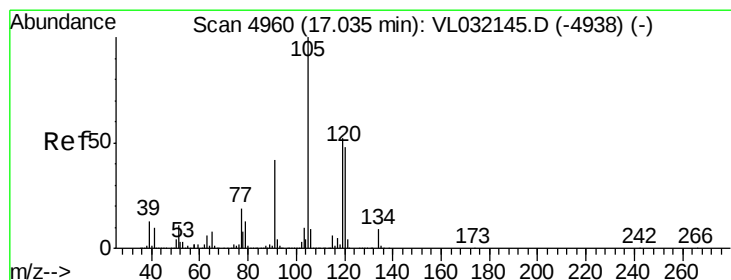
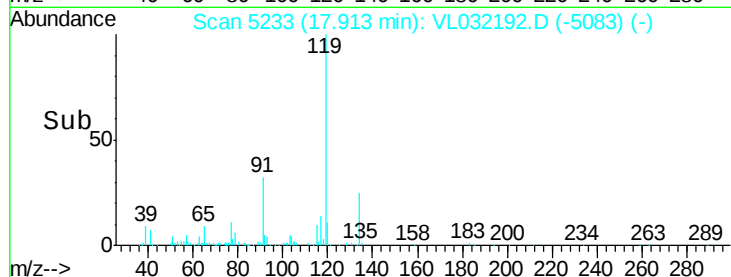
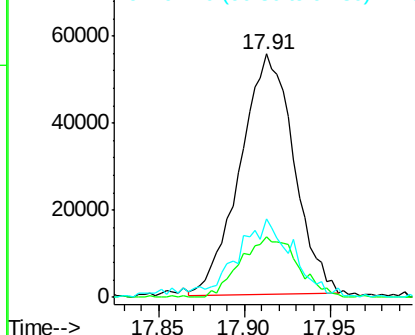
Tot Ion	Ratio	Resp	Lower	Upper
119	100	120035		
134	27.1		20.7	31.1
91	36.1		21.8	32.8#

Manual Integrations
 APPROVED

MMDadoda
 7/3/2018 5:17:19 PM

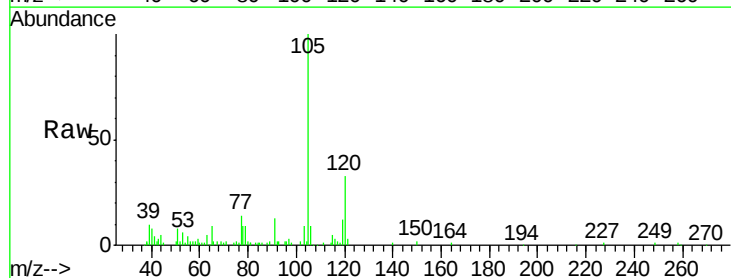


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): VLO



#74
 1,2,4-Trimethylbenzene
 Concen: 0.14 ppbv m
 RT: 17.02 min Scan# 4955
 Delta R.T. -0.03 min
 Lab File: VL032192.D
 Acq: 2 Jul 2018 21:46

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	74691		
120	32.5		38.8	58.2#
91	12.7		33.6	50.4#
77	13.7		16.0	24.0#



Abundance Ion 105.10 (104.80 to 105.80): V
 Ion 120.20 (119.90 to 120.90): V
 Ion 91.10 (90.80 to 91.80): VLO
 Ion 77.10 (76.80 to 77.80): VLO

