

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071218\
 Data File : VL032241.D
 Acq On : 13 Jul 2018 7:35
 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
 7/13/2018 5:22:23 PM

Quant Time: Jul 13 08:24:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 13 2018
 QLast Update : Fri Jul 13 04:25:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1776376	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.38	114	3914404	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.33	117	4614953	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.67	95	3642068	10.19	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.08	41	22736m	0.24	ppbv	
12) 1,1,2-Trichlorotrifluoroet	4.62	101	27372m	0.18	ppbv	
13) Ethanol	3.71	45	1613659	60.08	ppbv	96
15) Acetone	3.96	43	906185	4.40	ppbv	100
17) tert-Butyl alcohol	4.44	59	121969m	1.27	ppbv	
18) 1,1-Dichloroethene	4.42	96	11397	0.16	ppbv	90
19) Isopropyl Alcohol	4.09	45	787296	5.82	ppbv	99
20) Methylene Chloride	4.48	84	37553	0.54	ppbv	94
24) 1,1-Dichloroethane	5.16	63	248975	1.03	ppbv	99
26) Hexane	5.86	57	38801	0.21	ppbv #	64
32) 1,1,1-Trichloroethane	6.70	97	2604763	9.34	ppbv	99
34) 2-Butanone	5.41	43	156566	0.59	ppbv	100
44) 2,2,4-Trimethylpentane	8.08	57	129907m	0.19	ppbv	
53) Toluene	10.04	91	204559	0.44	ppbv	99
59) m/p-Xylene	13.21	91	174824m	0.32	ppbv	
60) o-Xylene	13.94	91	67887	0.12	ppbv	97
69) p-Isopropyltoluene	17.90	119	134388	0.18	ppbv	98
74) 1,2,4-Trimethylbenzene	17.02	105	87733m	0.15	ppbv	

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

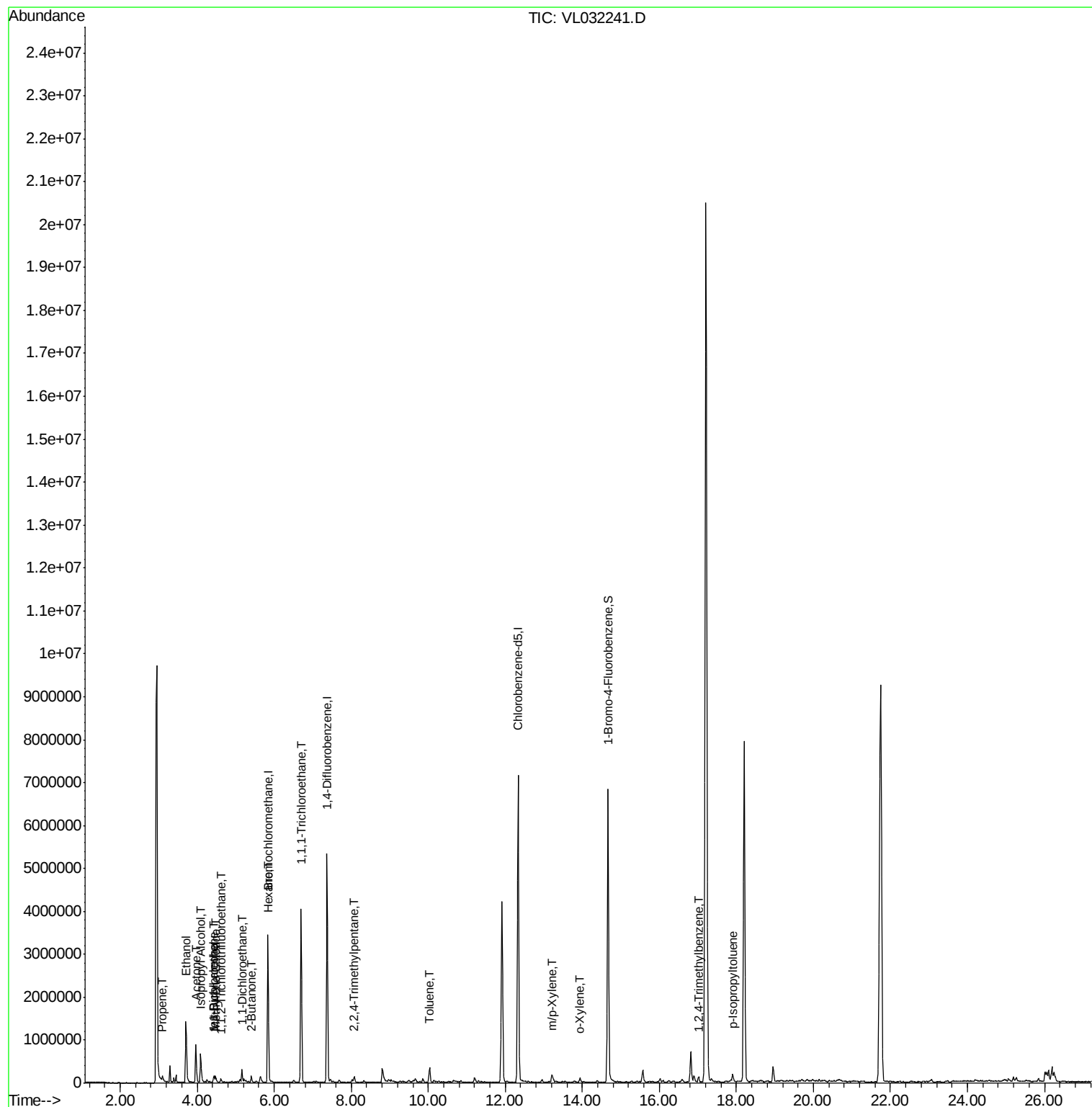
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071218\
Data File : VL032241.D
Acq On : 13 Jul 2018 7:35
Operator : SY/AP
Sample : J3753-02DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

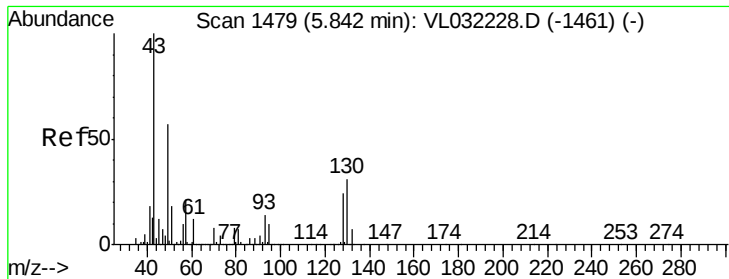
Instrument :
MSVOA_L
ClientSampleId :
MIDDLE

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Quant Time: Jul 13 08:24:52 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071218AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul
QLast Update : Fri Jul 13 04:25:14 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.84 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VL032241.D

Acq: 13 Jul 2018 7:35

Instrument :

MSVOA_L

ClientSampleId :

MIDDLE

Tot Ion: 49 Resp: 1776376

Ion Ratio Lower Upper

49 100

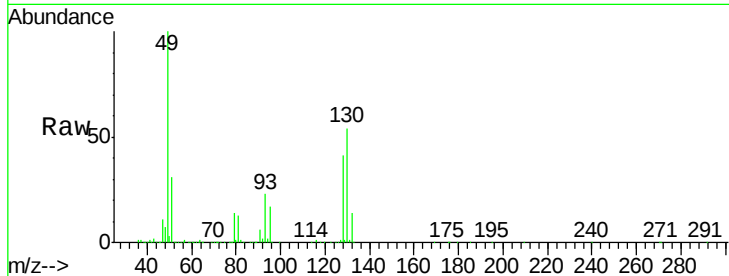
128 41.7 20.9 62.8

130 54.5 27.0 81.0

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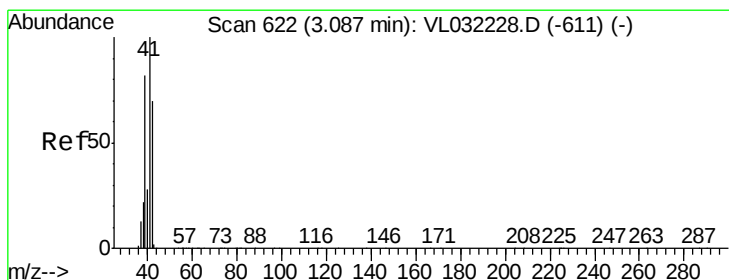
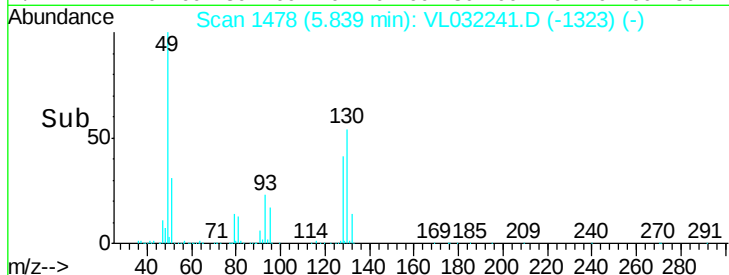
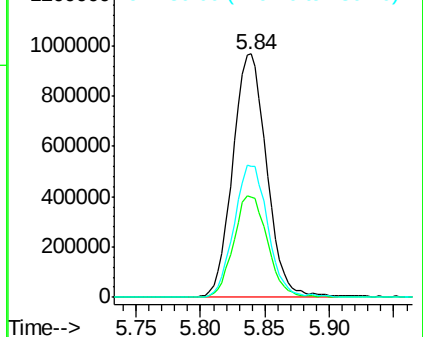
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#9

Propene

Concen: 0.24 ppbv m

RT: 3.08 min Scan# 621

Delta R.T. -0.00 min

Lab File: VL032241.D

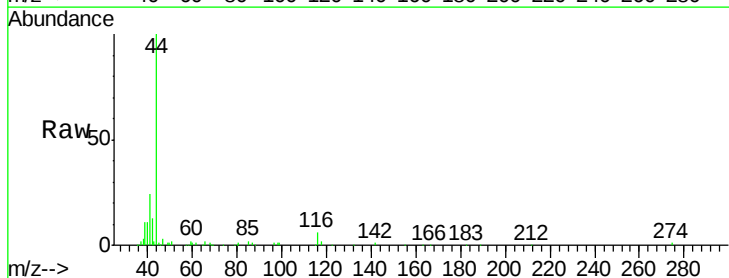
Acq: 13 Jul 2018 7:35

Tgt Ion: 41 Resp: 22736

Ion Ratio Lower Upper

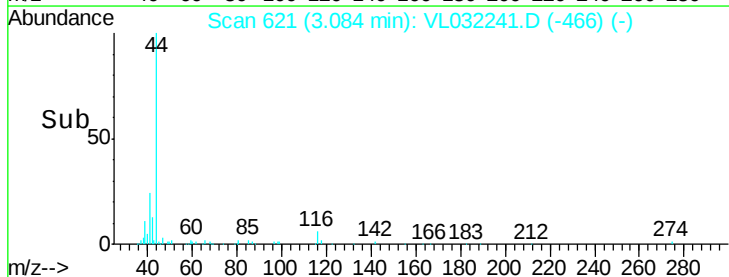
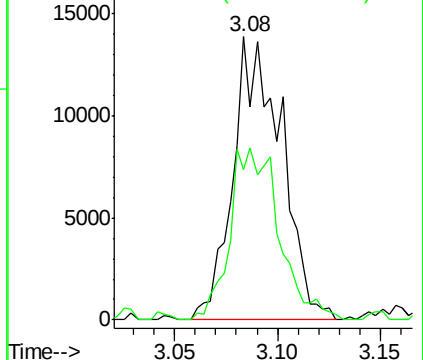
41 100

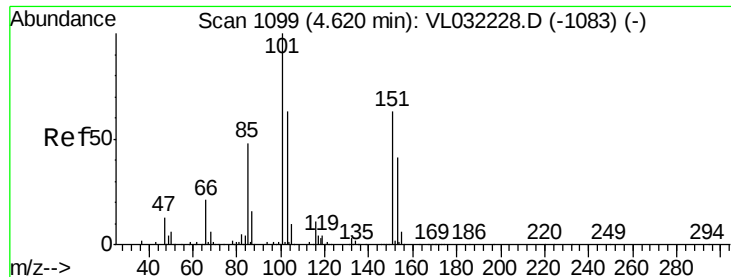
42 0.0 56.2 84.4#



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 m

RT: 4.62 min Scan# 1100

Delta R.T. 0.00 min

Lab File: VL032241.D

Acq: 13 Jul 2018 7:35

Instrument :

MSVOA_L

ClientSampleId :

MIDDLE

Tot Ion:101 Resp: 27372

Ion Ratio Lower Upper

101 100

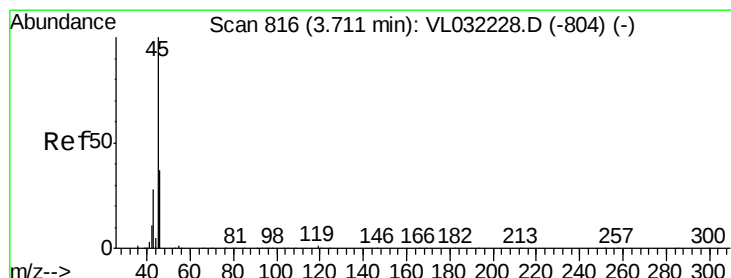
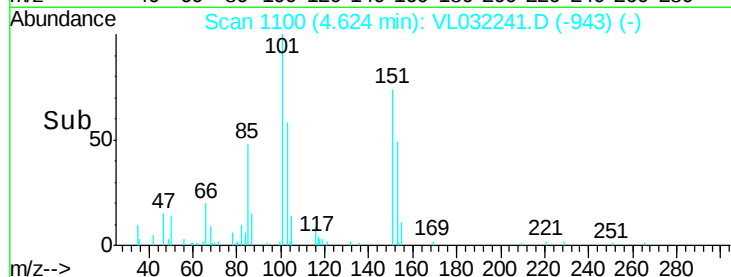
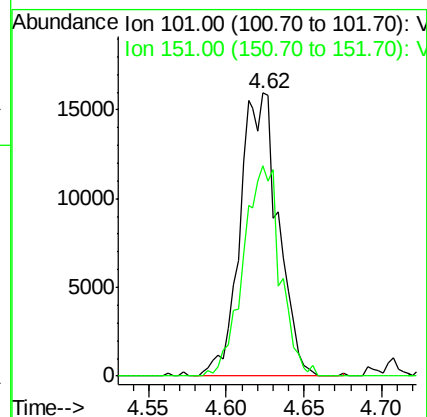
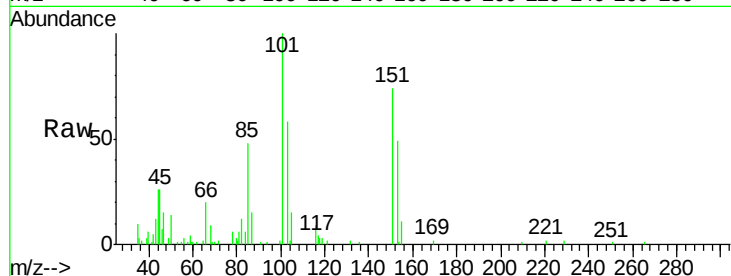
151 0.0 52.2 78.2#

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#13

Ethanol

Concen: 60.08 ppbv

RT: 3.71 min Scan# 816

Delta R.T. 0.00 min

Lab File: VL032241.D

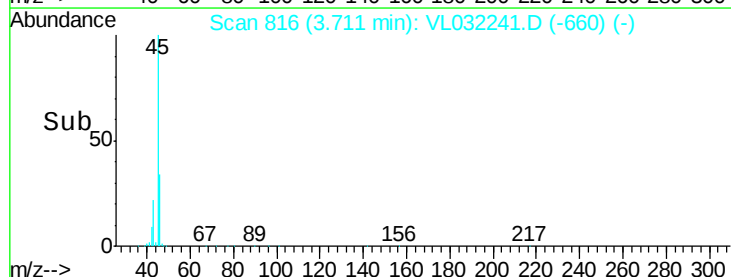
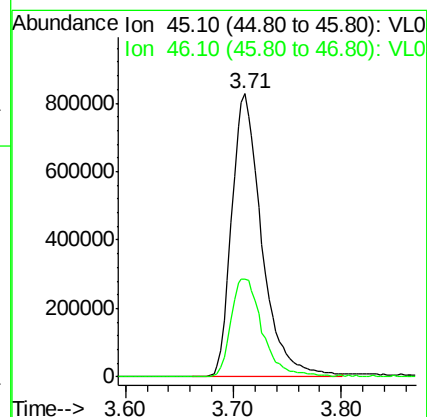
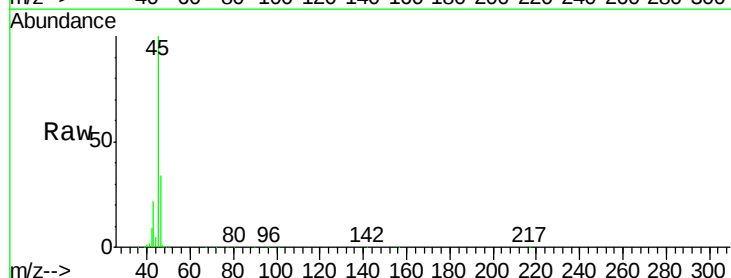
Acq: 13 Jul 2018 7:35

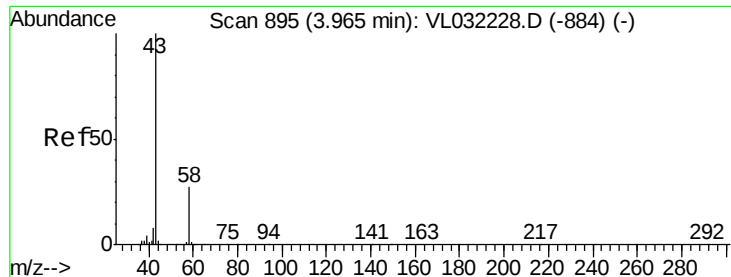
Tgt Ion: 45 Resp: 1613659

Ion Ratio Lower Upper

45 100

46 36.4 15.5 61.9





#15

Acetone

Concen: 4.40 ppbv

RT: 3.96 min Scan# 895

Delta R.T. 0.00 min

Lab File: VL032241.D

Acq: 13 Jul 2018 7:35

Instrument :

MSVOA_L

ClientSampleId :

MIDDLE

Tot Ion: 43 Resp: 906185

Ion Ratio Lower Upper

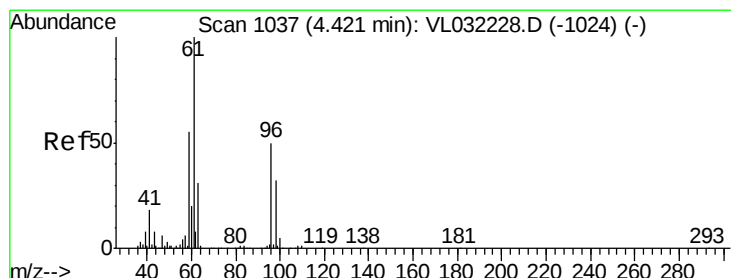
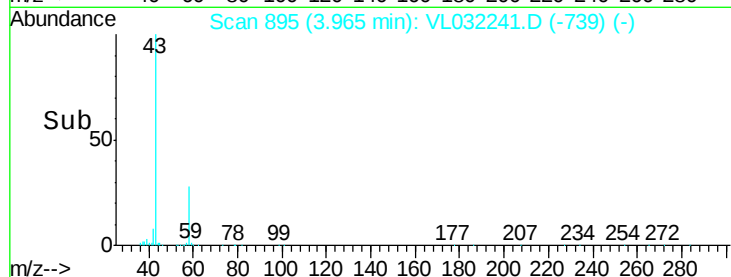
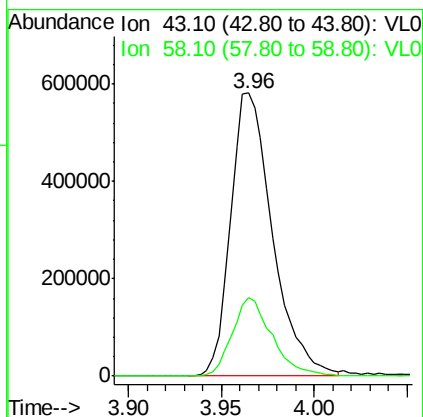
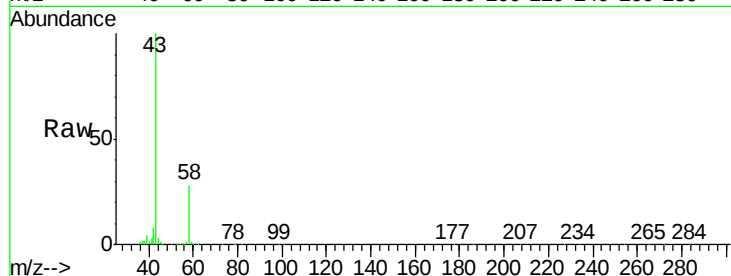
43 100

58 26.9 21.5 32.3

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#17

tert-Butyl alcohol

Concen: 1.27 ppbv m

RT: 4.44 min Scan# 1042

Delta R.T. 0.02 min

Lab File: VL032241.D

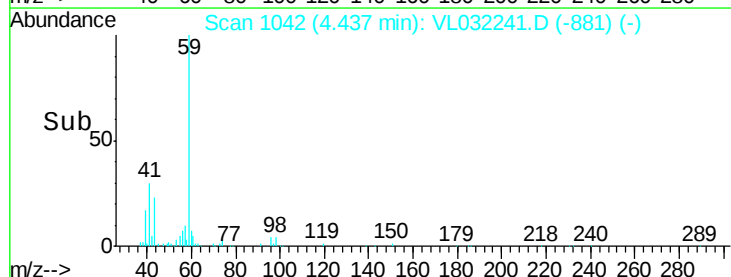
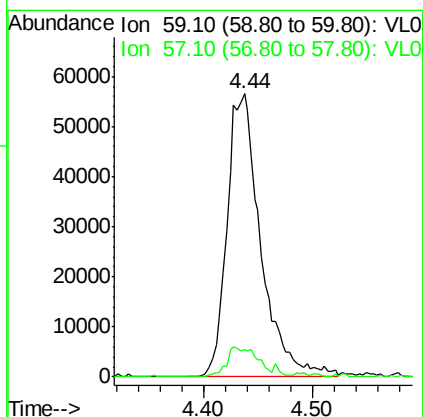
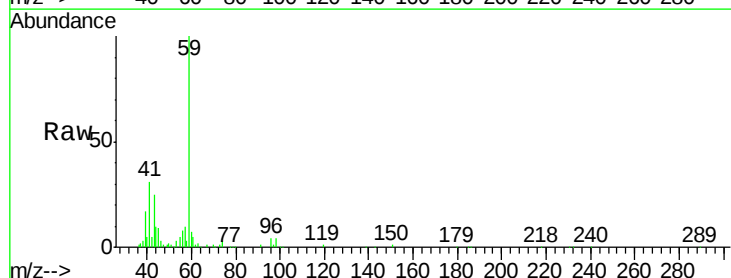
Acq: 13 Jul 2018 7:35

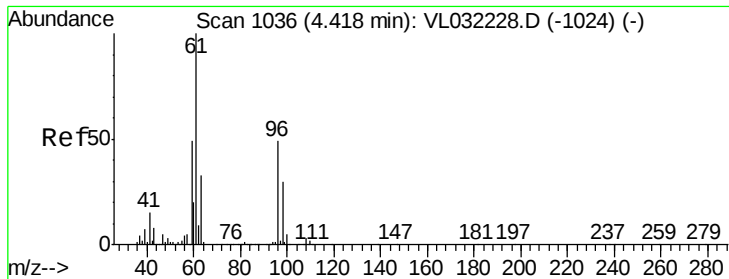
Tgt Ion: 59 Resp: 121969

Ion Ratio Lower Upper

59 100

57 11.1 8.4 12.6





#18

1,1-Dichloroethene

Concen: 0.16 ppbv

RT: 4.42 min Scan# 1038

Delta R.T. 0.01 min

Lab File: VL032241.D

Acq: 13 Jul 2018 7:35

Instrument :

MSVOA_L

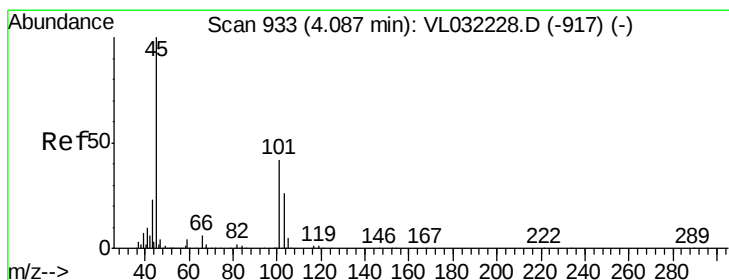
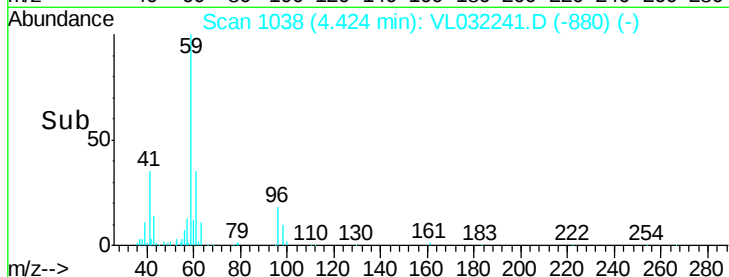
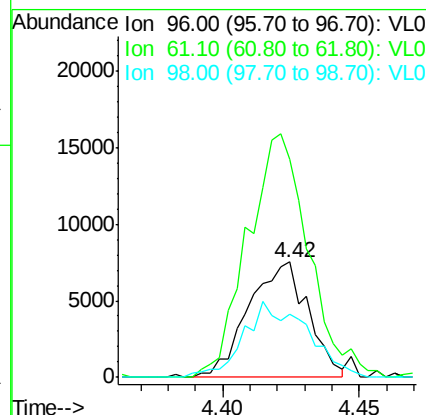
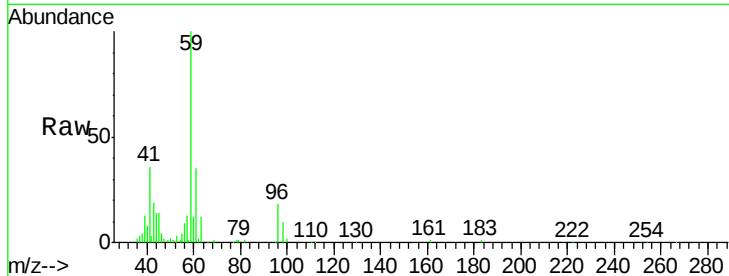
ClientSampled :

MIDDLE

Tot Ion:	96	Resp:	11397
Ion	Ratio	Lower	Upper
96	100		
61	189.1	163.0	244.4
98	51.5	48.5	72.7

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#19

Isopropyl Alcohol

Concen: 5.82 ppbv

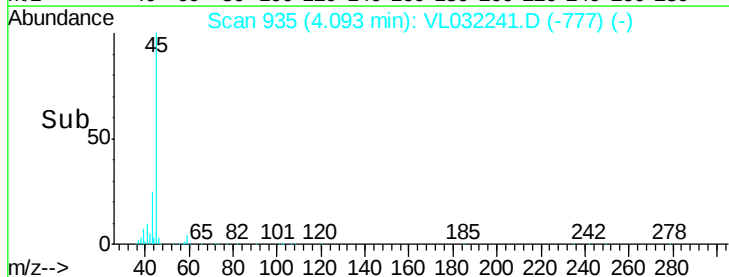
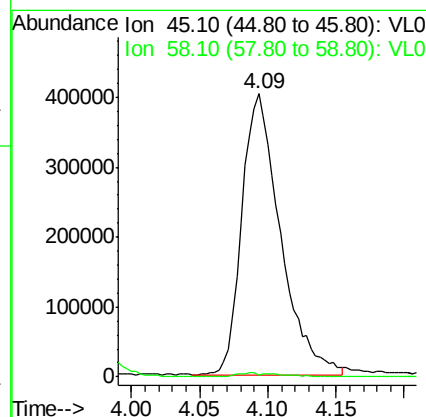
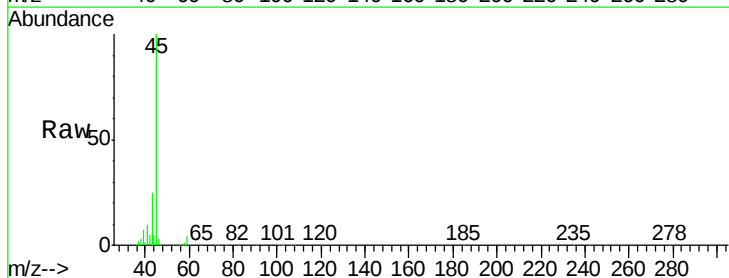
RT: 4.09 min Scan# 935

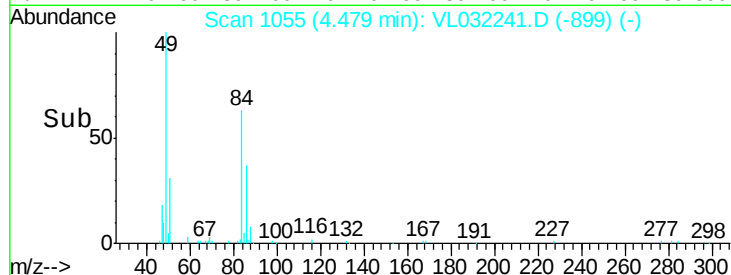
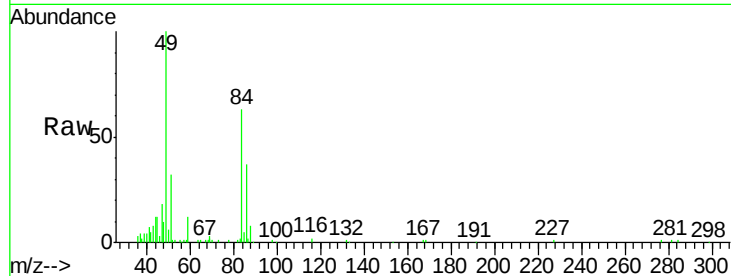
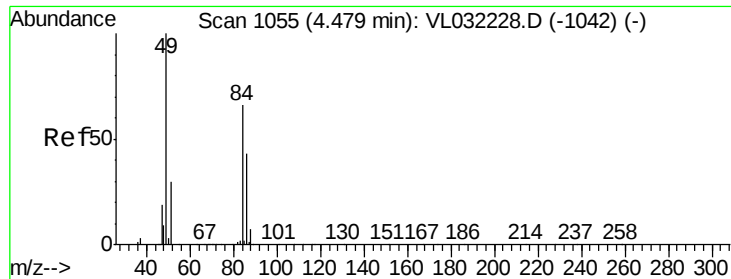
Delta R.T. 0.01 min

Lab File: VL032241.D

Acq: 13 Jul 2018 7:35

Tgt Ion:	45	Resp:	787296
Ion	Ratio	Lower	Upper
45	100		
58	1.9	1.3	1.9





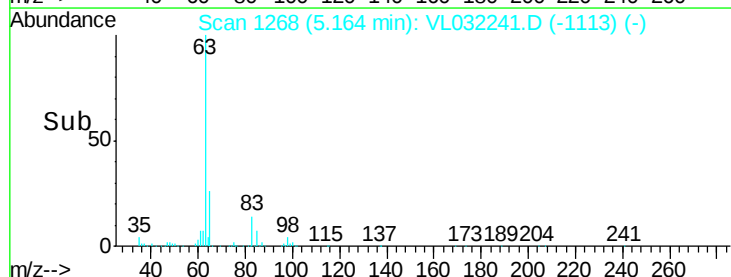
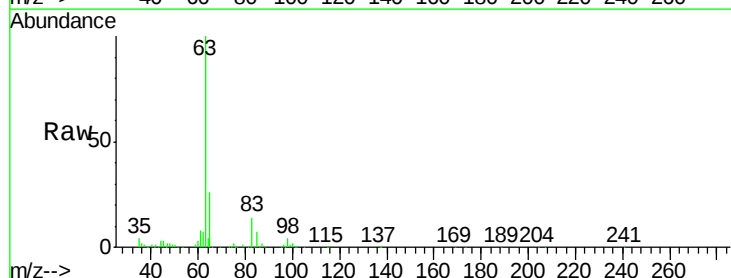
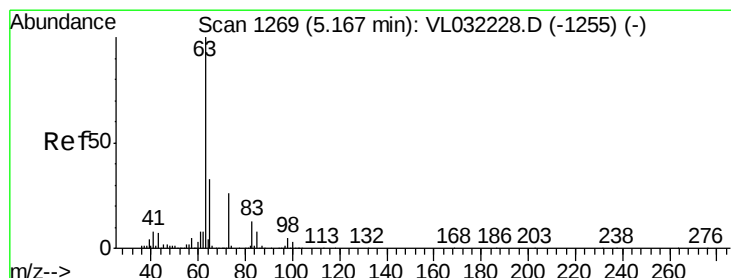
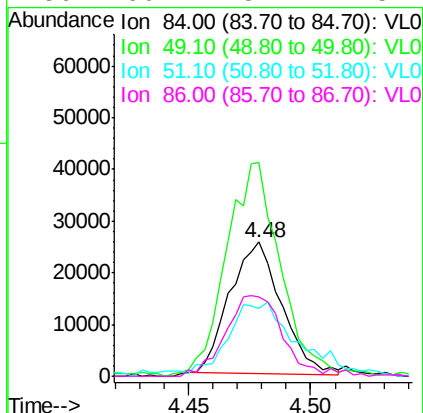
#20
Methvlene Chloride
Concen: 0.54 ppbv
RT: 4.48 min Scan# 1055
Delta R.T. 0.00 min
Lab File: VL032241.D
Acq: 13 Jul 2018 7:35

Tot Ion	84	Resp	37553
Ion Ratio	Lower	Upper	
84	100		
49	160.6	121.8	182.6
51	49.9	36.3	54.5
86	60.4	52.1	78.1

Instrument :
MSVOA_L
ClientSampleId :
MIDDLE

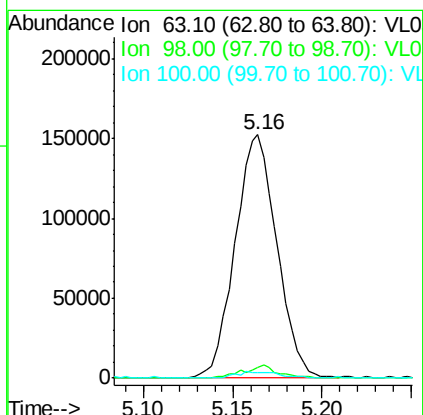
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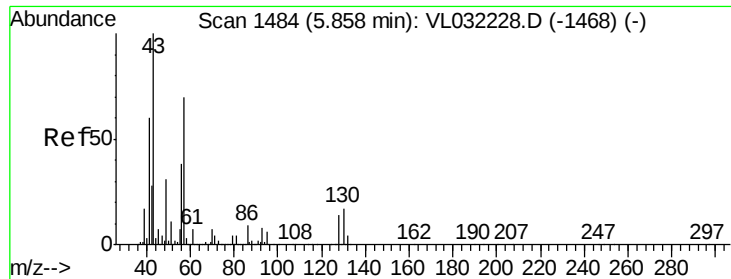
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#24
1,1-Dichloroethane
Concen: 1.03 ppbv
RT: 5.16 min Scan# 1268
Delta R.T. -0.00 min
Lab File: VL032241.D
Acq: 13 Jul 2018 7:35

Tgt Ion	63	Resp	248975
Ion Ratio	Lower	Upper	
63	100		
98	4.4	2.4	7.1
100	2.5	1.5	4.4





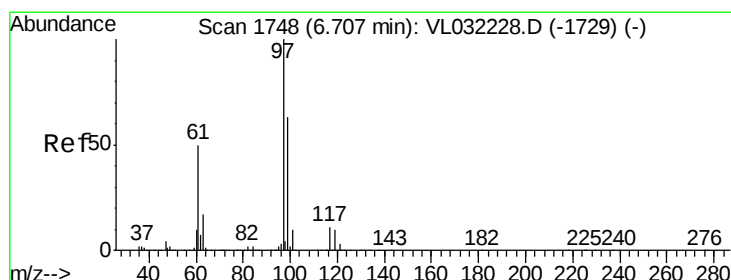
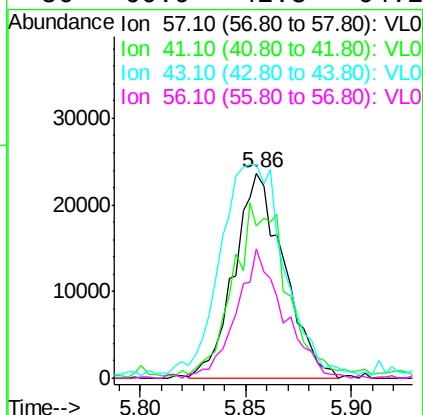
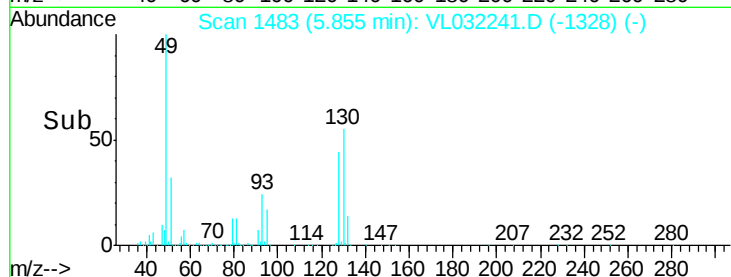
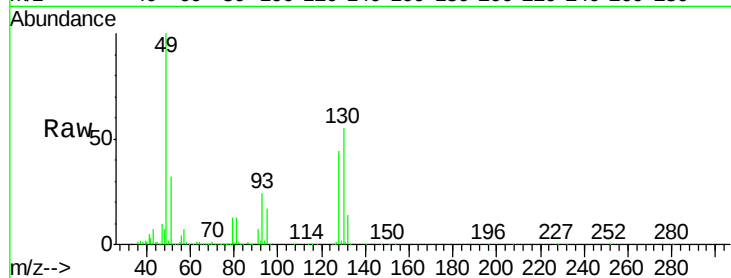
#26
Hexane
Concen: 0.21 ppbv
RT: 5.86 min Scan# 1483
Delta R.T. -0.00 min
Lab File: VL032241.D
Acq: 13 Jul 2018 7:35

Instrument :
MSVOA_L
ClientSampleId :
MIDDLE

Tot Ion	Ratio	Lower	Upper
57	100		
41	91.0	68.7	103.1
43	133.7	176.2	264.2#
56	60.9	42.8	64.2

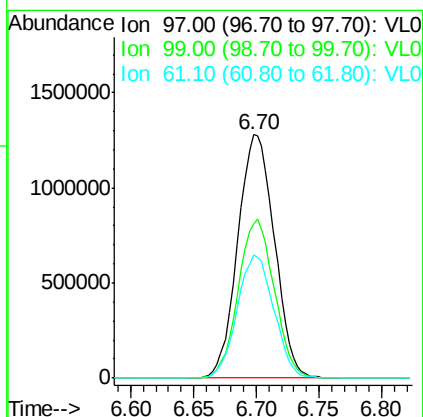
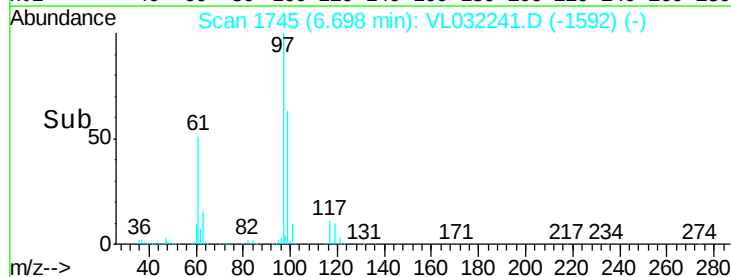
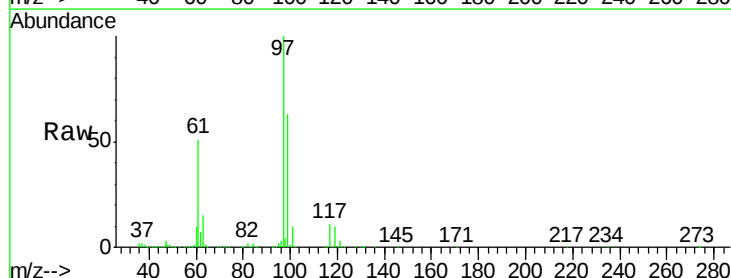
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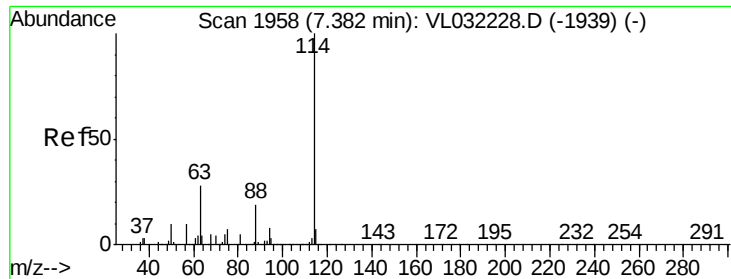
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#32
1,1,1-Trichloroethane
Concen: 9.34 ppbv
RT: 6.70 min Scan# 1745
Delta R.T. -0.01 min
Lab File: VL032241.D
Acq: 13 Jul 2018 7:35

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.2	76.8
61	50.5	41.3	61.9





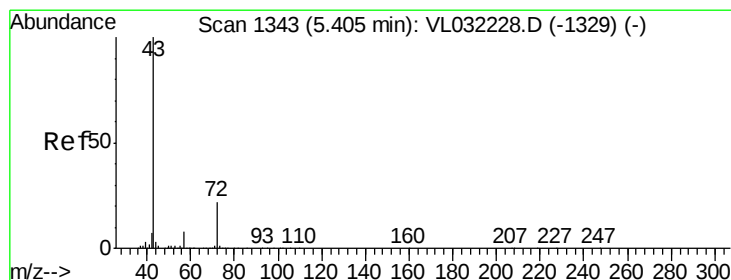
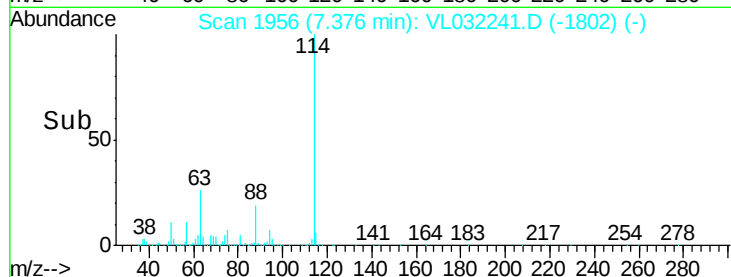
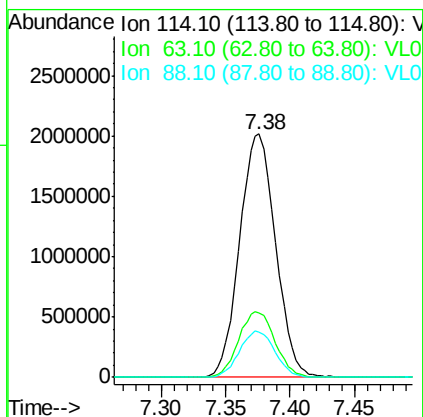
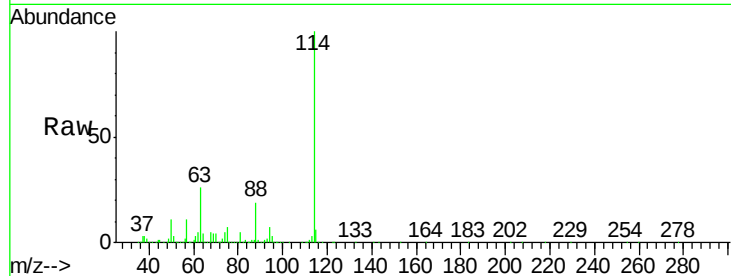
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.38 min Scan# 1956
 Delta R.T. -0.01 min
 Lab File: VL032241.D
 Acq: 13 Jul 2018 7:35

Instrument :
 MSVOA_L
 ClientSampleId :
 MIDDLE

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.5	22.5	33.7
88	18.9	15.4	23.0

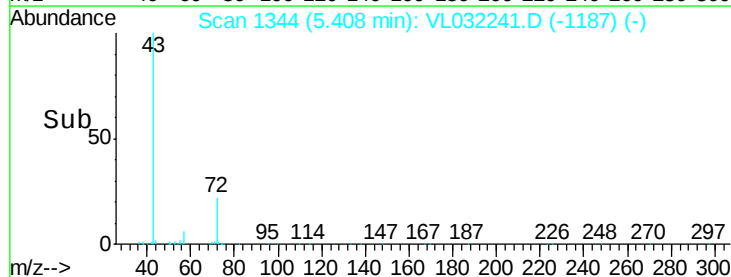
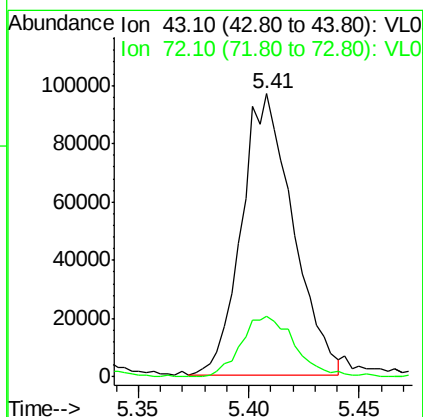
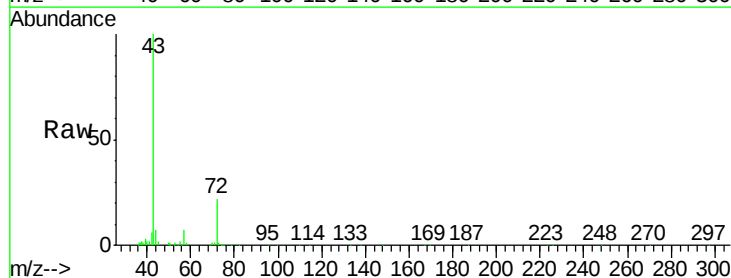
Manual Integrations
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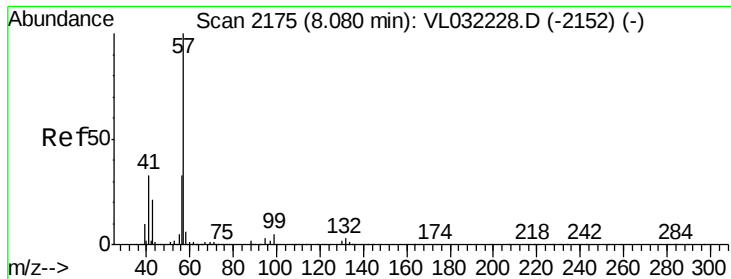
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 7/13/2018 5:22:23 PM



#34
 2-Butanone
 Concen: 0.59 ppbv
 RT: 5.41 min Scan# 1344
 Delta R.T. 0.00 min
 Lab File: VL032241.D
 Acq: 13 Jul 2018 7:35

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.8	18.1	27.1





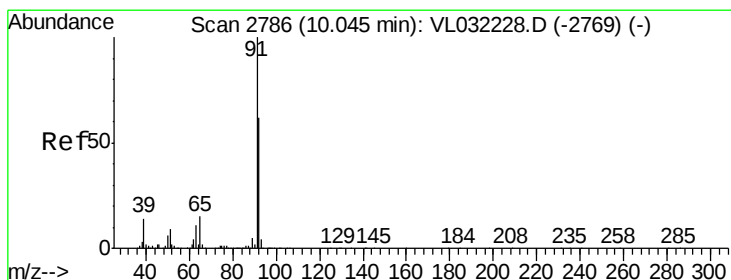
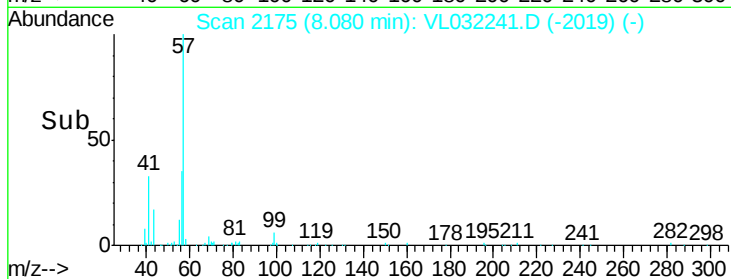
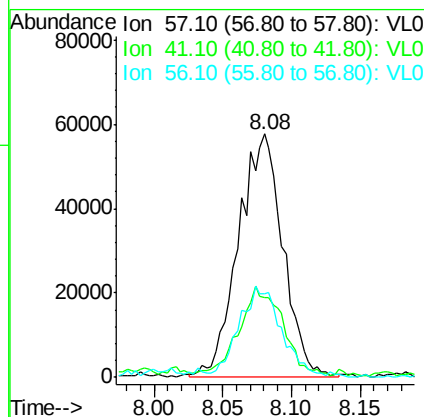
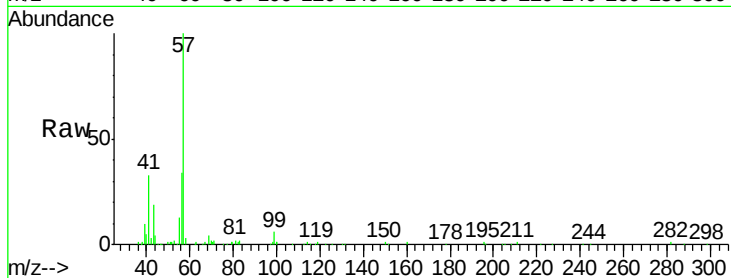
#44
 2,2,4-Trimethylpentane
 Concen: 0.19 ppbv m
 RT: 8.08 min Scan# 2175
 Delta R.T. 0.00 min
 Lab File: VL032241.D
 Acq: 13 Jul 2018 7:35

Instrument :
 MSVOA_L
 ClientSampleId :
 MIDDLE

Tot Ion	Ratio	Lower	Upper
57	100		
41	37.6	24.7	37.1#
56	37.3	25.4	38.0

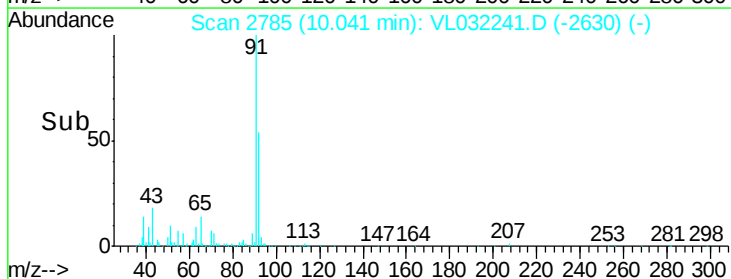
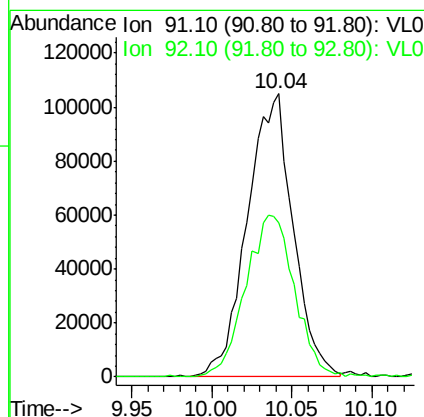
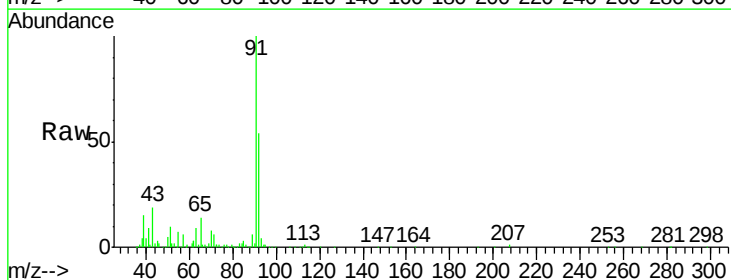
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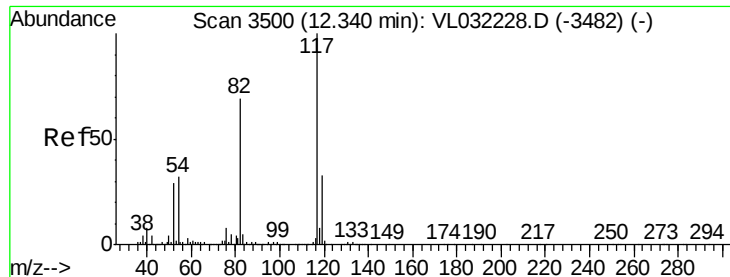
MMDadoda
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#53
 Toluene
 Concen: 0.44 ppbv
 RT: 10.04 min Scan# 2785
 Delta R.T. -0.00 min
 Lab File: VL032241.D
 Acq: 13 Jul 2018 7:35

Tgt Ion	Ratio	Lower	Upper
91	100		
92	62.2	49.0	73.4





#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.33 min Scan# 3498

Delta R.T. -0.01 min

Lab File: VL032241.D

Acq: 13 Jul 2018 7:35

Instrument :

MSVOA_L

ClientSampled :

MIDDLE

Tot Ion:117 Resp: 4614953

Ion Ratio Lower Upper

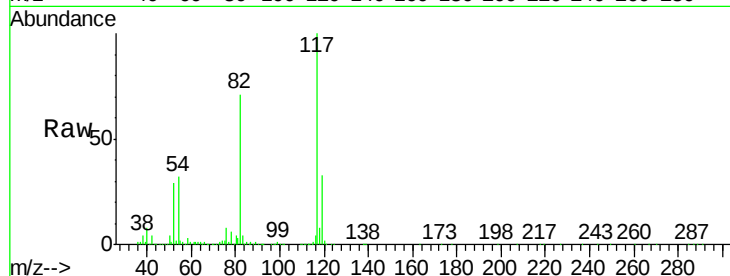
117 100

82 70.5 53.2 79.8

119 32.7 43.9 65.9#

Manual Integrations
APPROVED

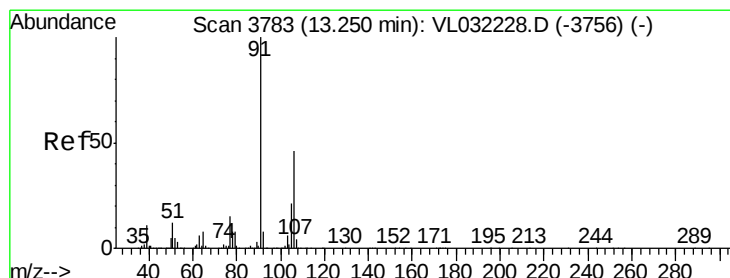
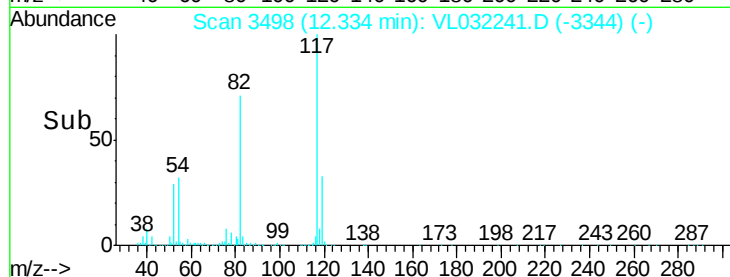
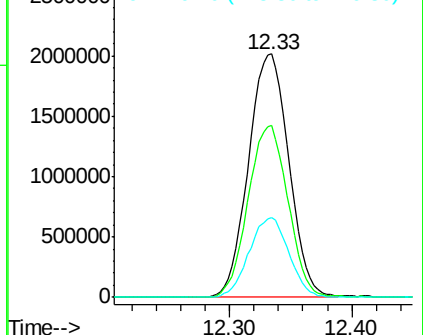
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#59

m/p-Xylene

Concen: 0.32 ppbv m

RT: 13.21 min Scan# 3770

Delta R.T. -0.04 min

Lab File: VL032241.D

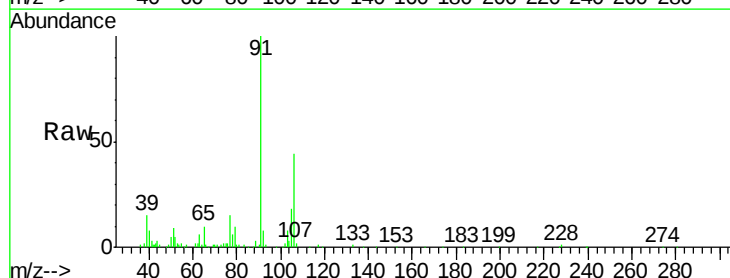
Acq: 13 Jul 2018 7:35

Tgt Ion: 91 Resp: 174824

Ion Ratio Lower Upper

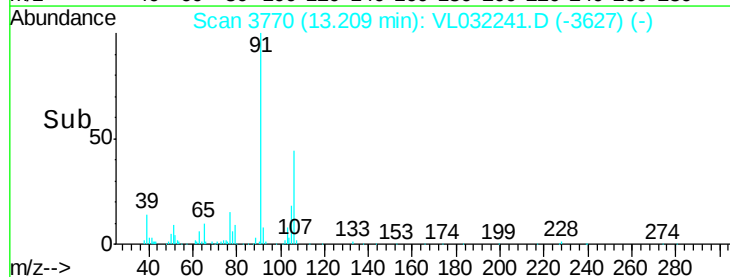
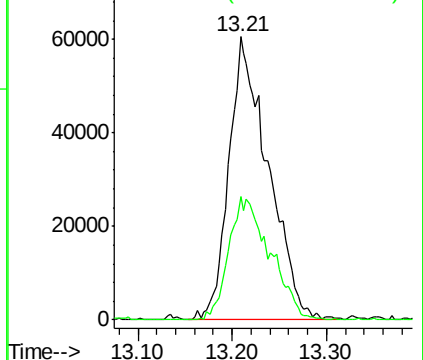
91 100

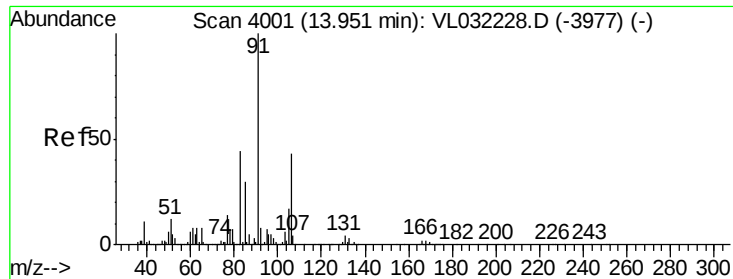
106 0.0 36.4 54.6#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





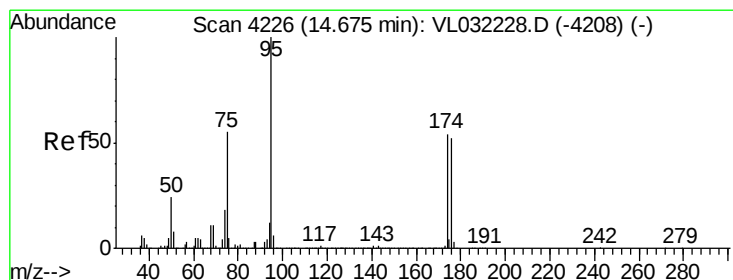
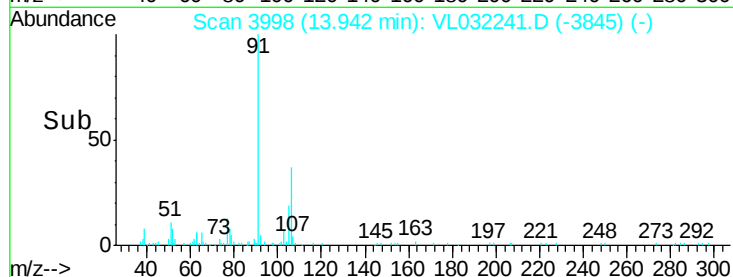
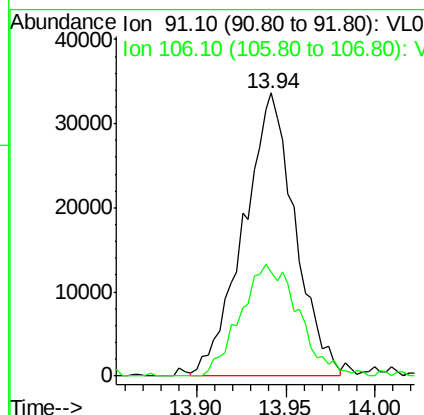
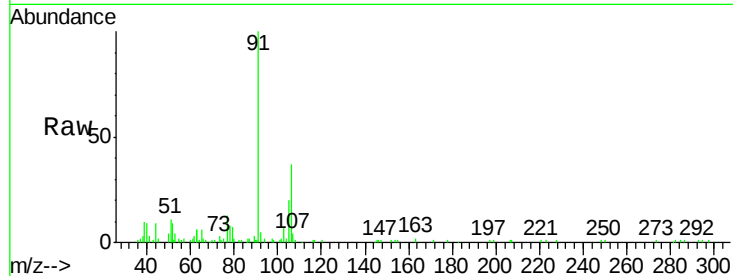
#60
o-Xylene
Concen: 0.12 ppbv
RT: 13.94 min Scan# 3998
Delta R.T. -0.01 min
Lab File: VL032241.D
Acq: 13 Jul 2018 7:35

Instrument :
MSVOA_L
ClientSampleId :
MIDDLE

Tot Ion: 91 Resp: 67887
Ion Ratio Lower Upper
91 100
106 45.5 21.9 65.5

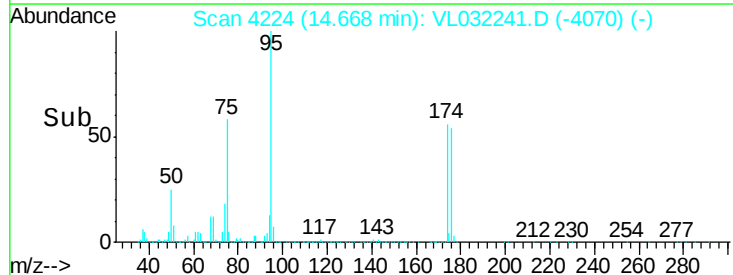
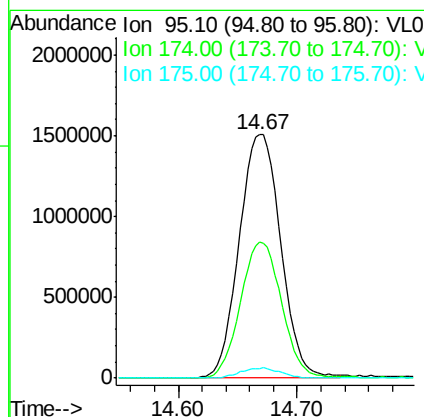
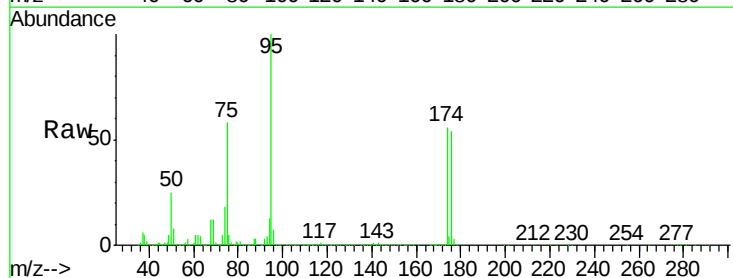
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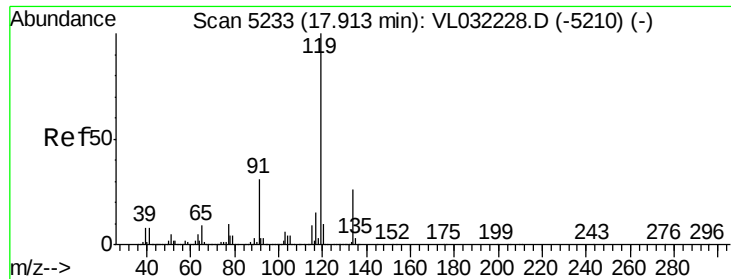
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7/13/2018 5:22:23 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.19 ppbv
RT: 14.67 min Scan# 4224
Delta R.T. -0.01 min
Lab File: VL032241.D
Acq: 13 Jul 2018 7:35

Tgt Ion: 95 Resp: 3642068
Ion Ratio Lower Upper
95 100
174 56.2 44.6 67.0
175 4.1 3.3 4.9





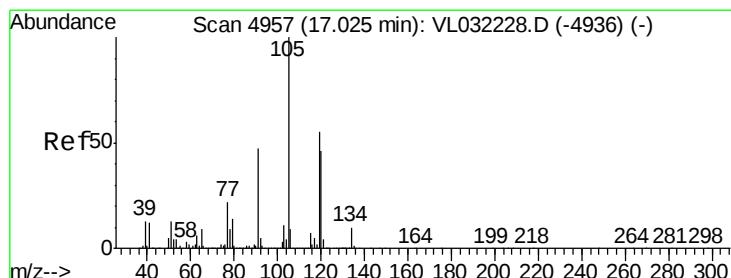
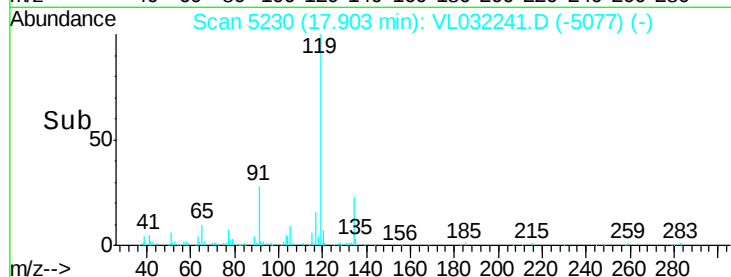
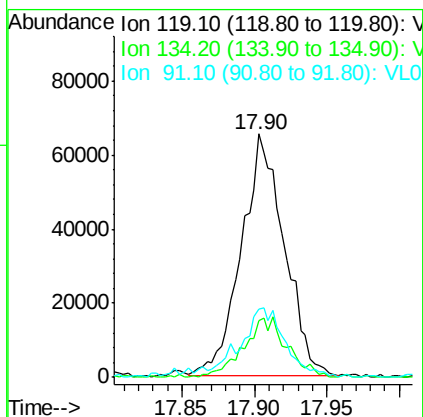
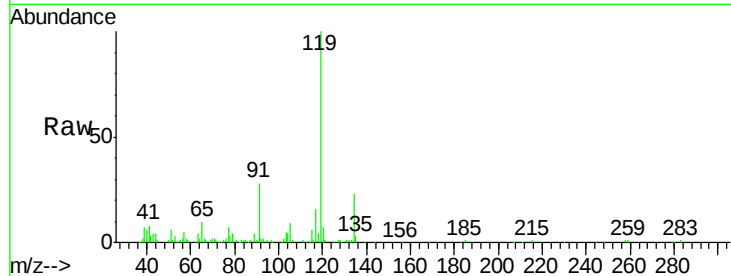
#69
p-Isopropyltoluene
Concen: 0.18 ppbv
RT: 17.90 min Scan# 5230
Delta R.T. -0.01 min
Lab File: VL032241.D
Acq: 13 Jul 2018 7:35

Instrument :
MSVOA_L
ClientSampleId :
MIDDLE

Tot Ion	Ratio	Resp	Lower	Upper
119	100	134388		
134	25.7	20.1	30.1	
91	31.8	24.2	36.2	

Manual Integrations
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7/13/2018 5:22:23 PM



#74
1,2,4-Trimethylbenzene
Concen: 0.15 ppbv m
RT: 17.02 min Scan# 4956
Delta R.T. -0.00 min
Lab File: VL032241.D
Acq: 13 Jul 2018 7:35

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	87733		
120	34.3	37.0	55.4#	
91	10.3	38.2	57.2#	
77	15.1	17.7	26.5#	

