

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062918\
 Data File : VL032161.D
 Acq On : 30 Jun 2018 8:34
 Operator : SY/AP
 Sample : J3601-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 DUPE

Manual Integrations
 APPROVED

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 7/2/2018 4:25:44 PM

Quant Time: Jul 02 12:08:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 2
 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	5.84	49	1666264	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	3536292	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	3455125	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.68	95	2587174	9.80	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	59959	0.27	ppbv	92
4) Chloromethane	3.23	50	58985	0.54	ppbv	95
9) Propene	3.10	41	89105m	0.94	ppbv	
10) Heptane	8.34	43	94244	0.34	ppbv	99
11) Trichlorofluoromethane	4.07	101	64724	0.27	ppbv	100
13) Ethanol	3.73	45	1704600	59.26	ppbv	100
15) Acetone	3.96	43	2780426m	14.27	ppbv	
19) Isopropyl Alcohol	4.11	45	390795m	2.41	ppbv	
20) Methylene Chloride	4.48	84	421017	5.91	ppbv	95
26) Hexane	5.86	57	730068	3.93	ppbv	89
29) Chloroform	5.93	83	198691	0.74	ppbv	95
30) Cyclohexane	7.34	84	58128	0.33	ppbv	99
34) 2-Butanone	5.41	43	262467	1.17	ppbv	98
35) Carbon Tetrachloride	7.23	117	21081m	0.09	ppbv	
36) Benzene	7.10	78	86706	0.25	ppbv #	91
37) 1,2-Dichloroethane	6.50	62	54122	0.32	ppbv	98
41) Tetrahydrofuran	6.24	42	57638m	0.43	ppbv	
44) 2,2,4-Trimethylpentane	8.08	57	88735	0.15	ppbv #	69
50) 4-Methyl-2-Pentanone	8.98	43	95057m	0.26	ppbv	
52) Tetrachloroethene	11.48	164	20470m	0.16	ppbv	
53) Toluene	10.04	91	1537869	3.72	ppbv	99
58) Ethyl Benzene	12.96	91	346927	0.62	ppbv	92
59) m/p-Xylene	13.22	91	819227	1.84	ppbv	97
60) o-Xylene	13.94	91	350135	0.79	ppbv	95
61) Styrene	13.78	104	68774	0.19	ppbv	94
73) 1,3,5-Trimethylbenzene	16.26	105	75063m	0.14	ppbv	
74) 1,2,4-Trimethylbenzene	17.03	105	223023m	0.41	ppbv	

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

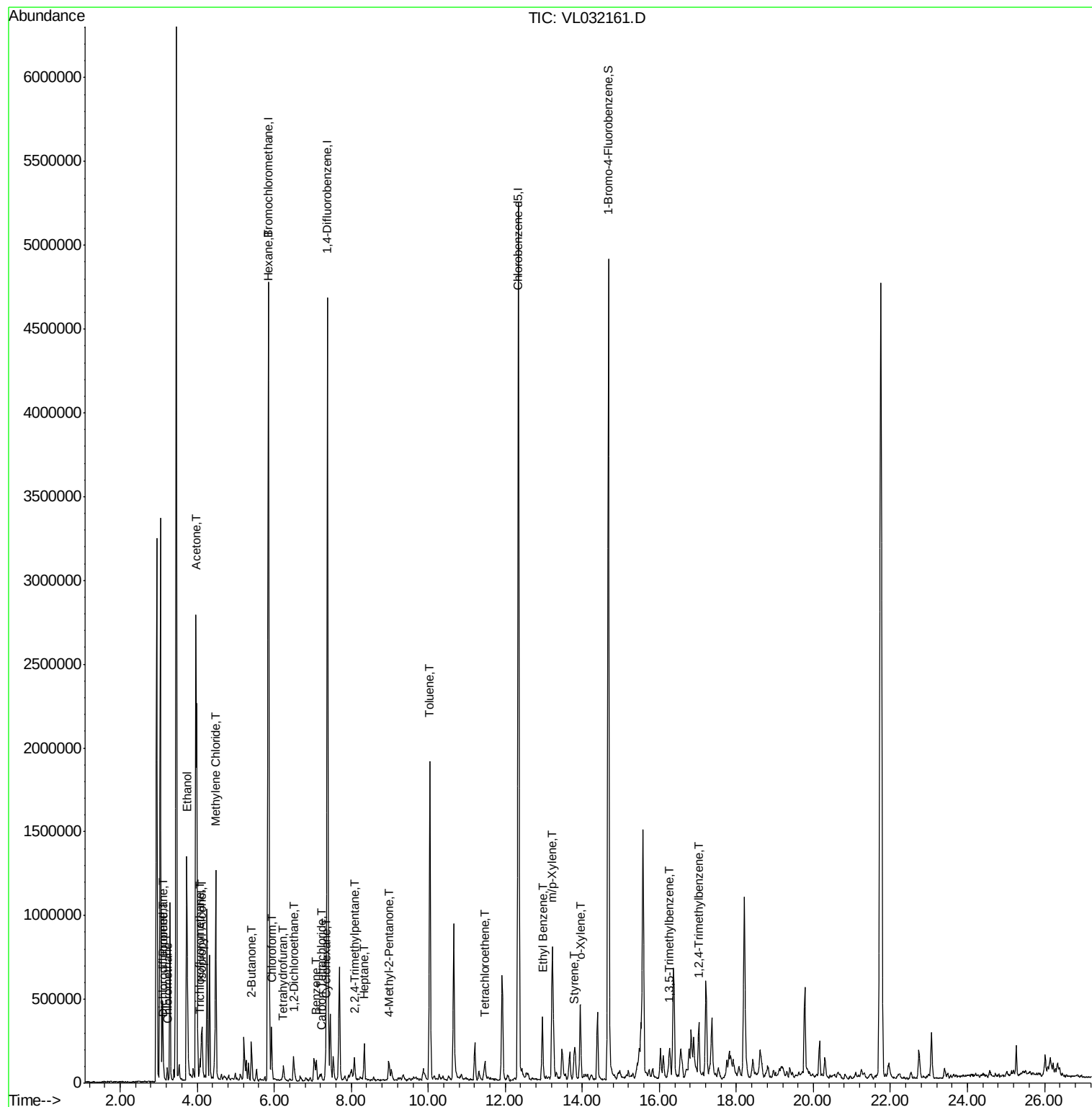
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL062918\
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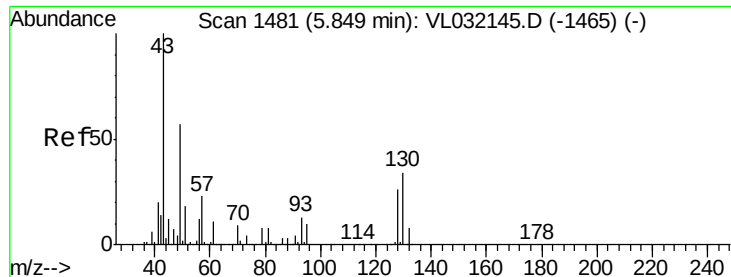
Instrument :
MSVOA_L
ClientSampled :
DUPE

Manual Integrations
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Quant Time: Jul 02 12:08:16 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





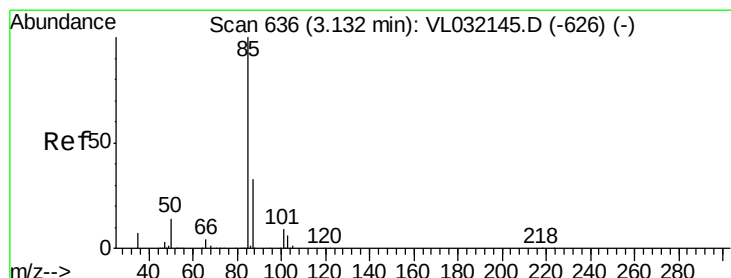
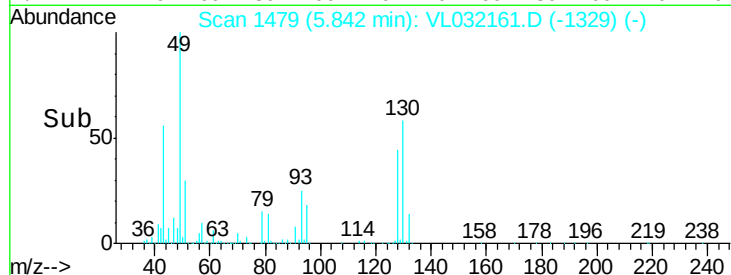
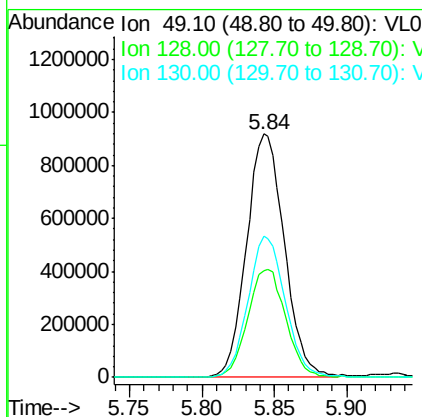
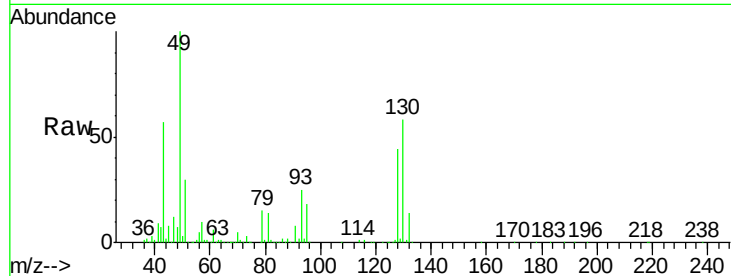
#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 5.84 min Scan# 1479
Delta R.T. -0.02 min
Lab File: VL032161.D
Acq: 30 Jun 2018 8:34

Instrument :
MSVOA_L
ClientSampleId :
DUPE

Tot Ion: 49 Resp: 1666264
Ion Ratio Lower Upper
49 100
128 44.8 23.4 70.0
130 57.4 30.3 90.9

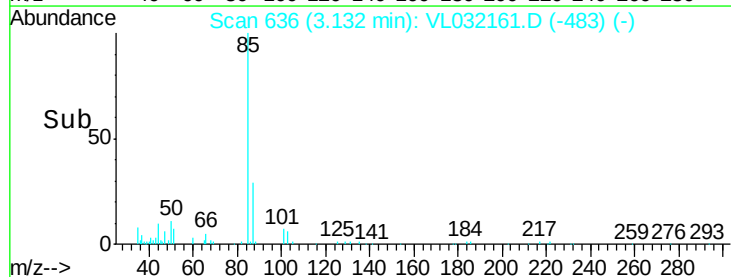
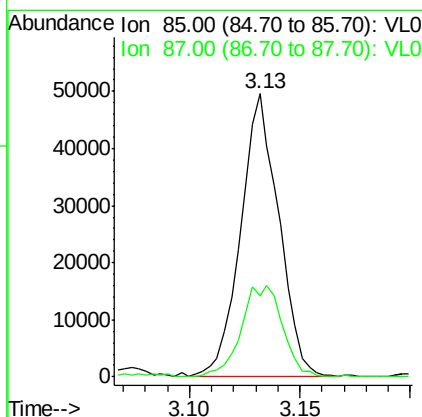
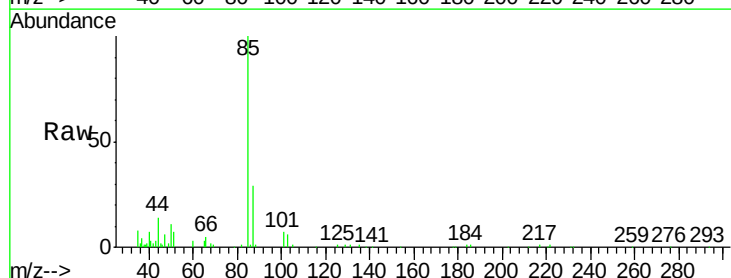
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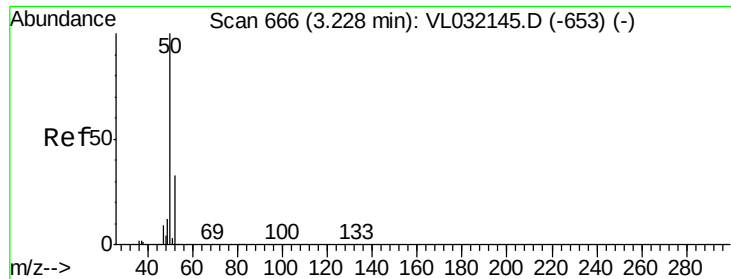
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#2
Dichlorodifluoromethane
Concen: 0.27 ppbv
RT: 3.13 min Scan# 636
Delta R.T. -0.01 min
Lab File: VL032161.D
Acq: 30 Jun 2018 8:34

Tgt Ion: 85 Resp: 59959
Ion Ratio Lower Upper
85 100
87 28.8 26.7 40.1





#4

Chloromethane

Concen: 0.54 ppbv

RT: 3.23 min Scan# 666

Delta R.T. -0.01 min

Lab File: VL032161.D

Acq: 30 Jun 2018 8:34

Instrument :

MSVOA_L

ClientSampleId :

DUPE

Tot Ion: 50 Resp: 58985

Ion Ratio Lower Upper

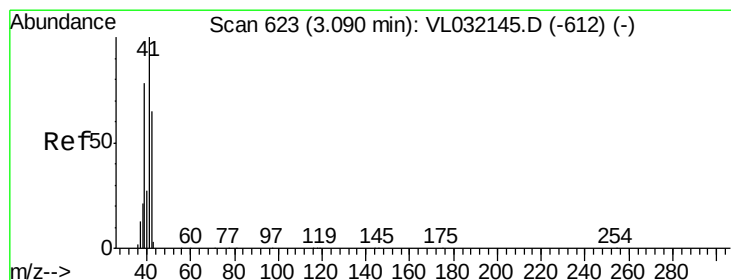
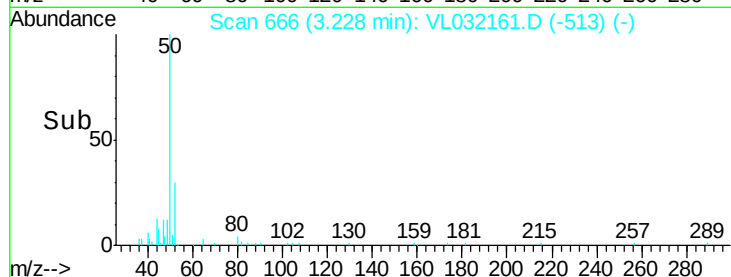
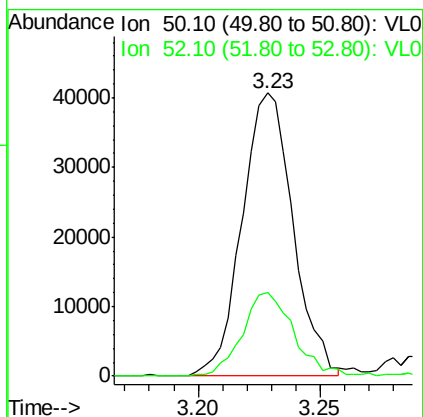
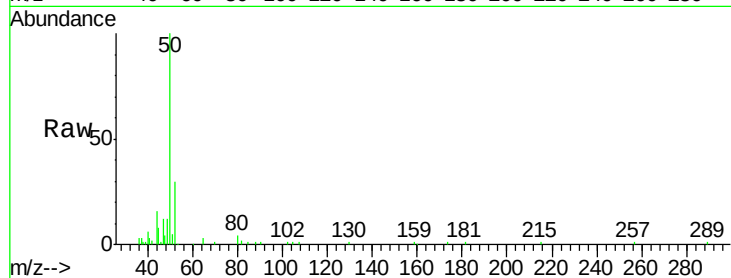
50 100

52 29.6 26.0 39.0

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#9

Propene

Concen: 0.94 ppbv m

RT: 3.10 min Scan# 627

Delta R.T. 0.00 min

Lab File: VL032161.D

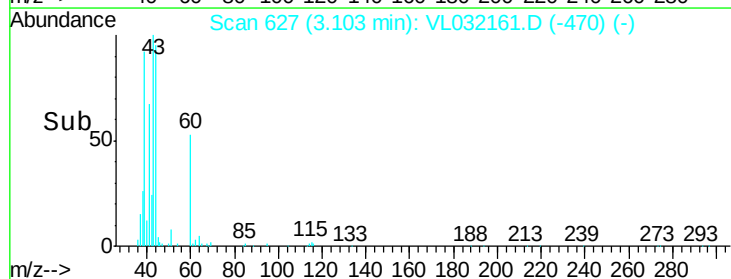
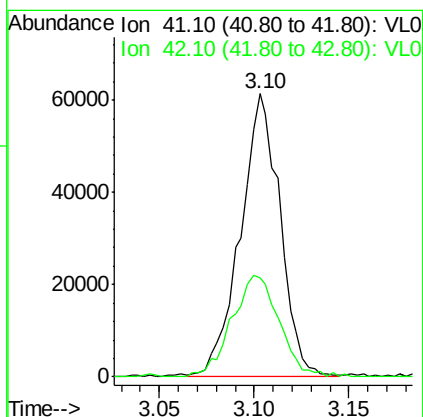
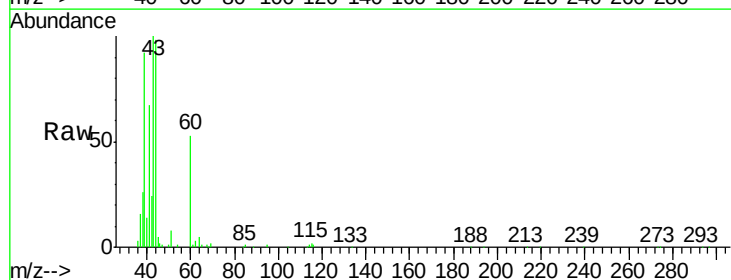
Acq: 30 Jun 2018 8:34

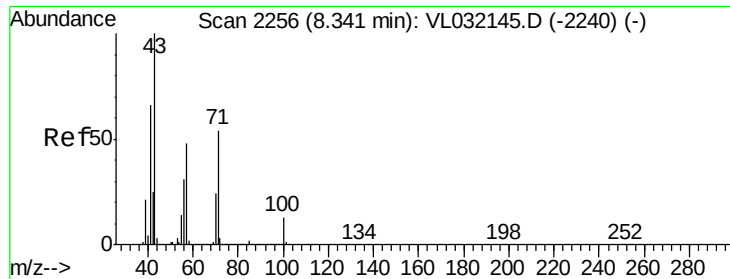
Tgt Ion: 41 Resp: 89105

Ion Ratio Lower Upper

41 100

42 196.3 56.2 84.4#





#10

Heptane

Concen: 0.34 ppbv

RT: 8.34 min Scan# 2255

Delta R.T. -0.02 min

Lab File: VL032161.D

Acq: 30 Jun 2018 8:34

Instrument :

MSVOA_L

ClientSampled :

DUPE

Tot Ion: 43 Resp: 94244

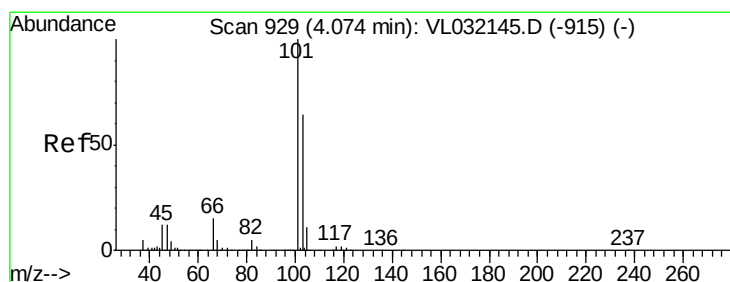
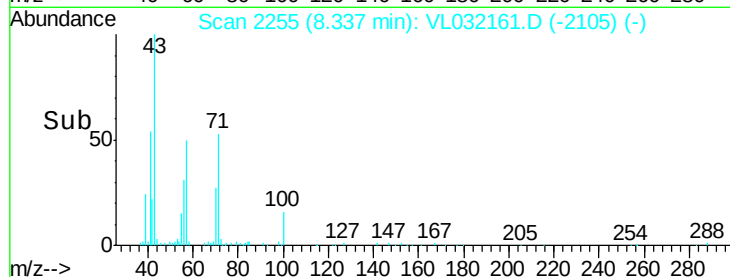
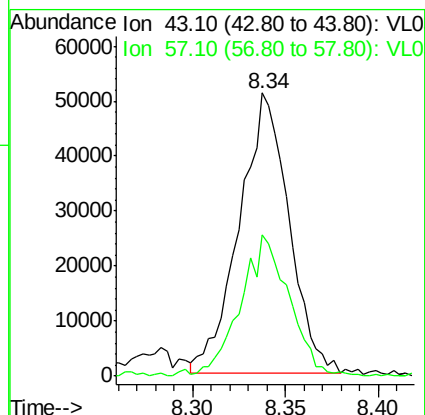
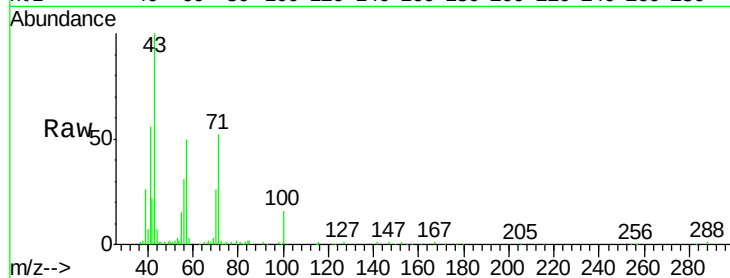
Ion Ratio Lower Upper

43 100

57 50.6 39.8 59.8

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#11

Trichlorofluoromethane

Concen: 0.27 ppbv

RT: 4.07 min Scan# 928

Delta R.T. -0.01 min

Lab File: VL032161.D

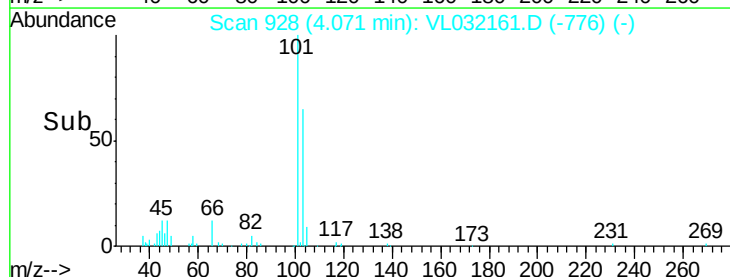
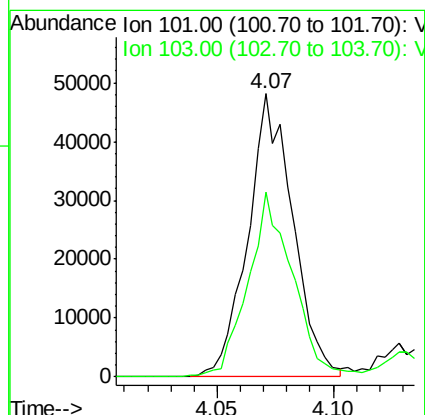
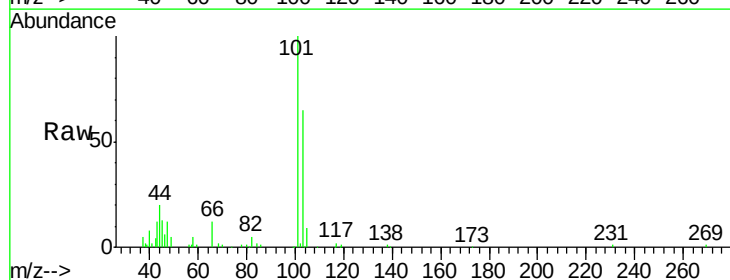
Acq: 30 Jun 2018 8:34

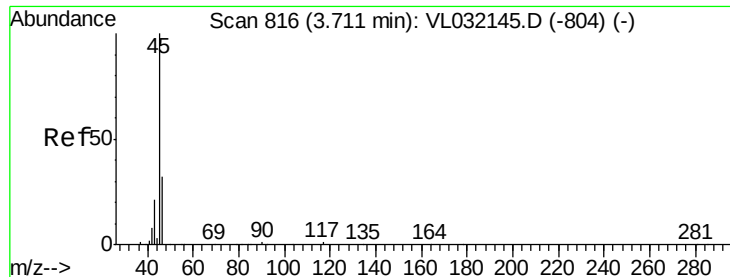
Tgt Ion: 101 Resp: 64724

Ion Ratio Lower Upper

101 100

103 64.3 51.4 77.0





#13

Ethanol

Concen: 59.26 ppbv

RT: 3.73 min Scan# 822

Delta R.T. 0.01 min

Lab File: VL032161.D

Acq: 30 Jun 2018 8:34

Tot Ion: 45 Resp: 1704600

Ion Ratio Lower Upper

45 100

46 36.8 14.6 58.4

Instrument :

MSVOA_L

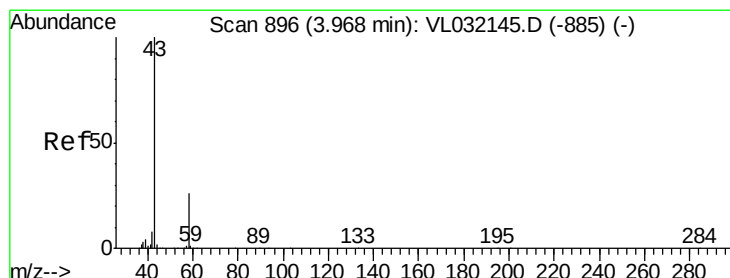
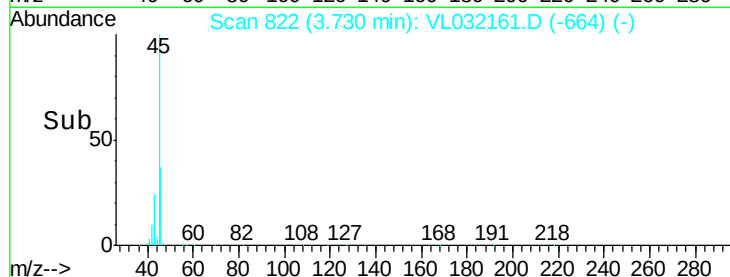
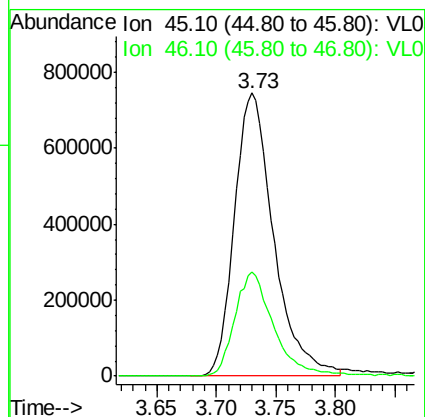
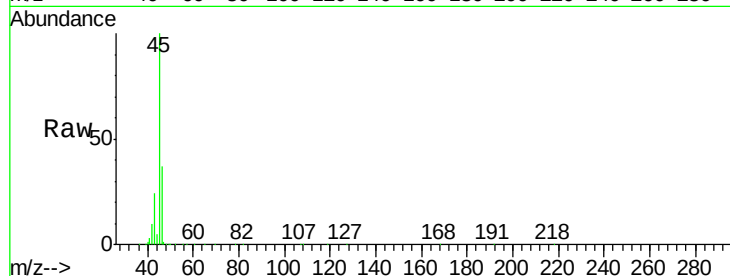
ClientSampleId :

DUPE

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#15

Acetone

Concen: 14.27 ppbv m

RT: 3.96 min Scan# 895

Delta R.T. -0.01 min

Lab File: VL032161.D

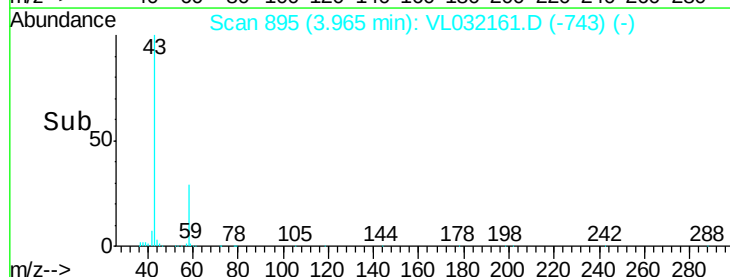
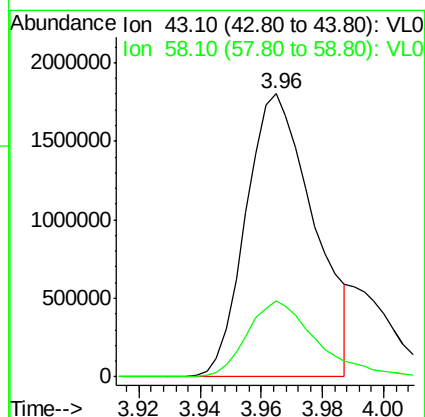
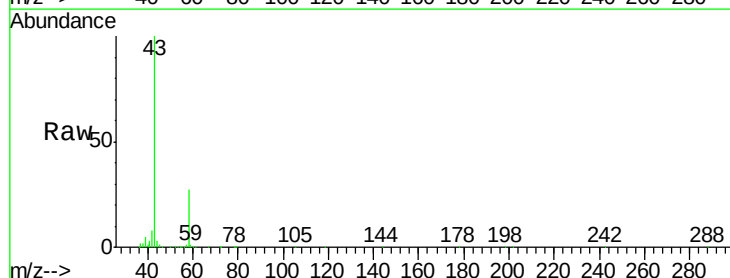
Acq: 30 Jun 2018 8:34

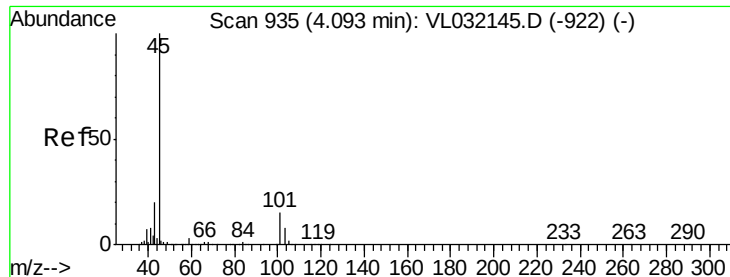
Tgt Ion: 43 Resp: 2780426

Ion Ratio Lower Upper

43 100

58 27.6 21.4 32.0





#19

Isopropyl Alcohol

Concen: 2.41 ppbv m

RT: 4.11 min Scan# 940

Delta R.T. 0.01 min

Lab File: VL032161.D

Acq: 30 Jun 2018 8:34

Tot Ion: 45 Resp: 390795
Ion Ratio Lower Upper

45 100

58 0.0 29.4 44.0#

Instrument :

MSVOA_L

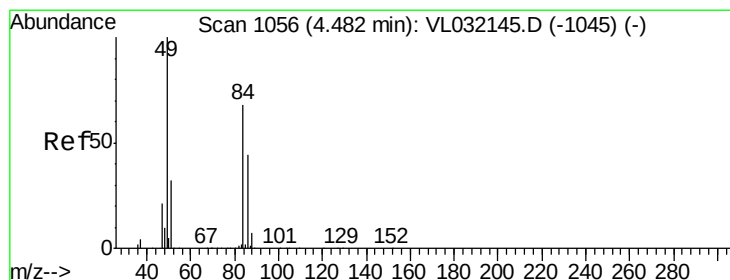
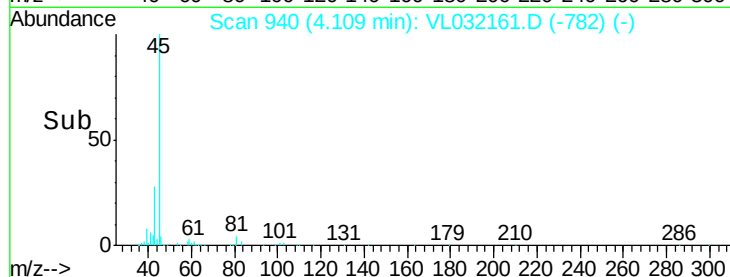
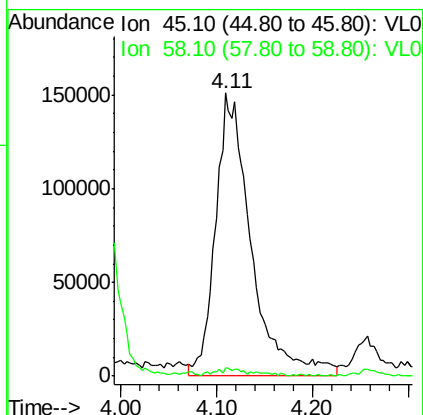
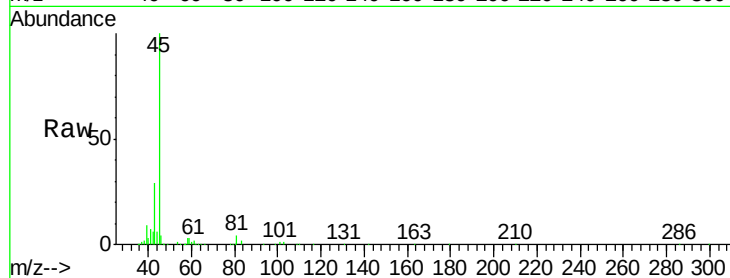
ClientSampleId :

DUPE

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#20

Methylene Chloride

Concen: 5.91 ppbv

RT: 4.48 min Scan# 1055

Delta R.T. -0.01 min

Lab File: VL032161.D

Acq: 30 Jun 2018 8:34

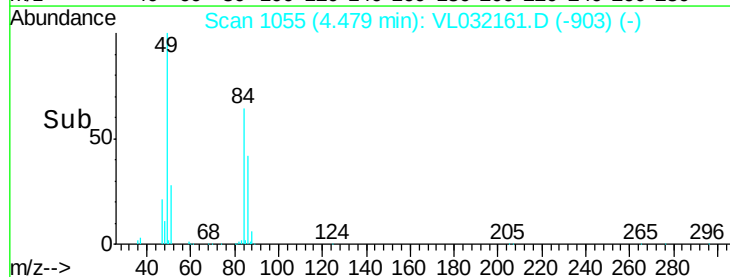
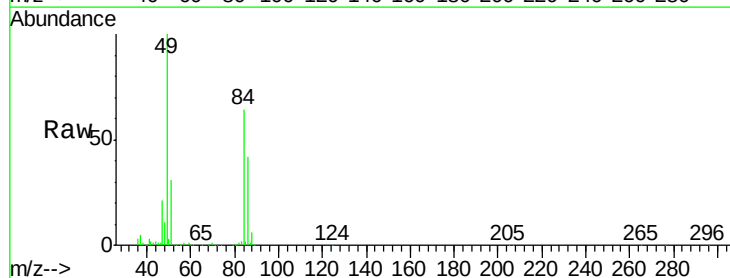
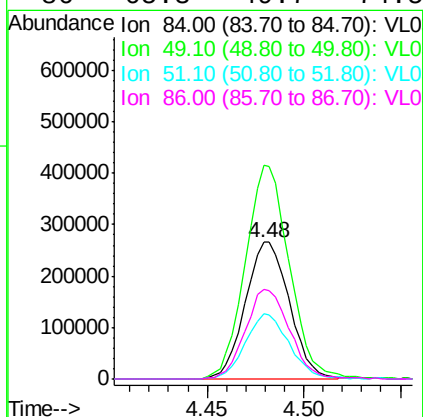
Tgt Ion: 84 Resp: 421017
Ion Ratio Lower Upper

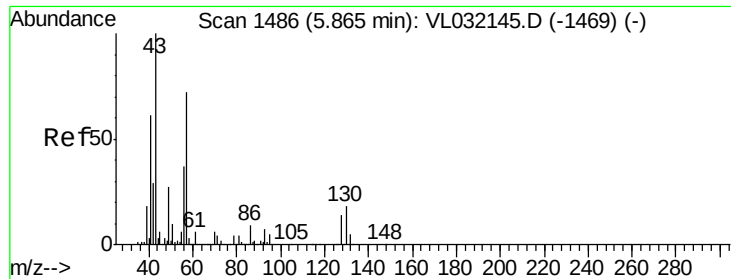
84 100

49 156.2 119.6 179.4

51 47.8 36.3 54.5

86 65.3 49.7 74.5





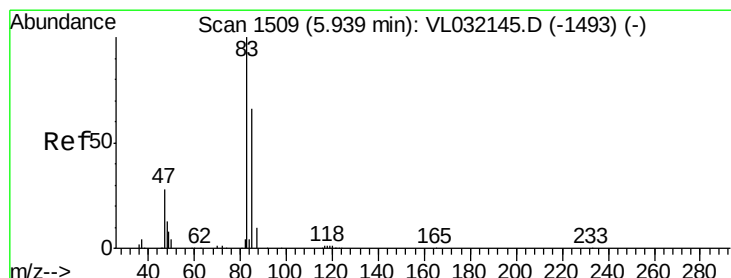
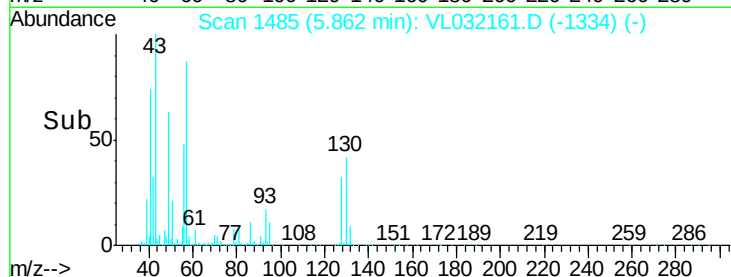
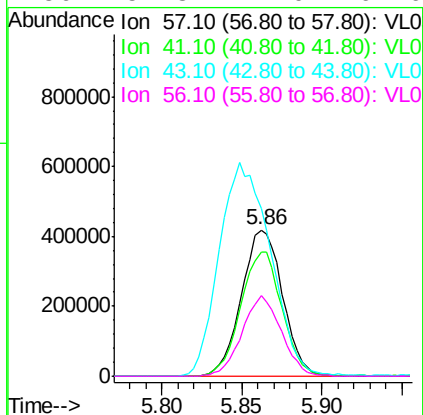
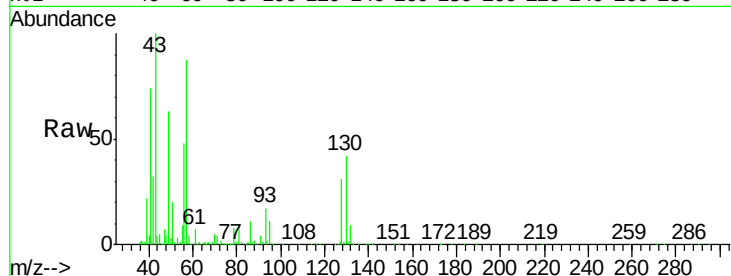
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Hexane
Concen: 3.93 ppbv
RT: 5.86 min Scan# 1485
Delta R.T. -0.02 min
Lab File: VL032161.D
Acq: 30 Jun 2018 8:34

Instrument :
MSVOA_L
ClientSampleId :
DUPE

Tot Ion	Ratio	Lower	Upper
57	100		
41	86.1	68.6	103.0
43	183.9	168.6	252.8
56	52.8	41.0	61.6

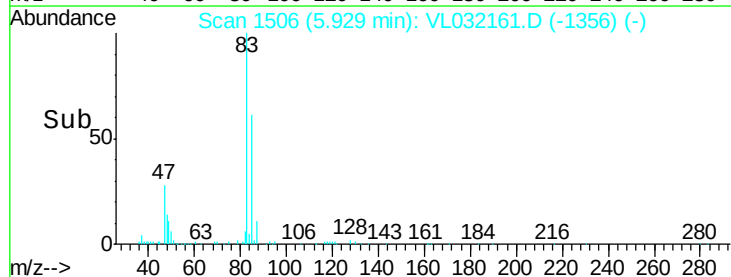
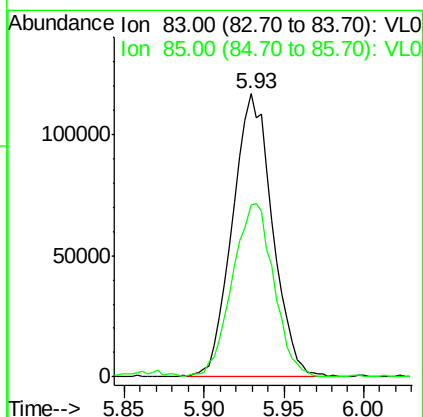
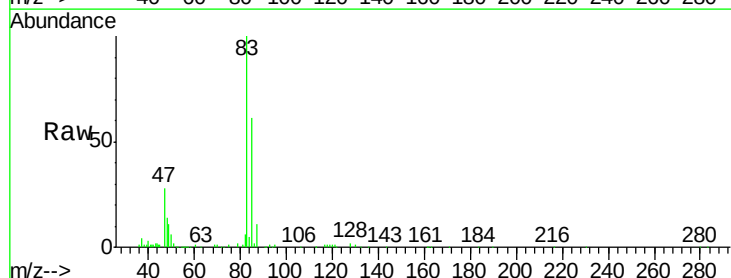
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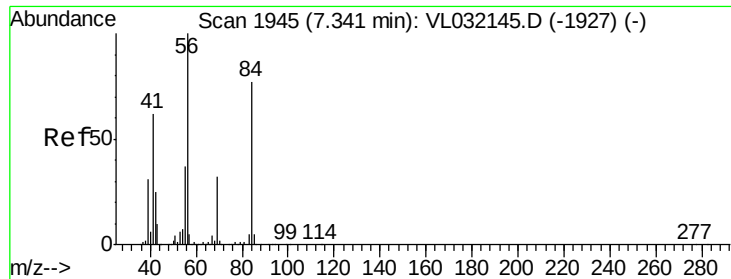
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#29
Chloroform
Concen: 0.74 ppbv
RT: 5.93 min Scan# 1506
Delta R.T. -0.02 min
Lab File: VL032161.D
Acq: 30 Jun 2018 8:34

Tgt Ion	Ratio	Lower	Upper
83	100		
85	60.9	51.6	77.4





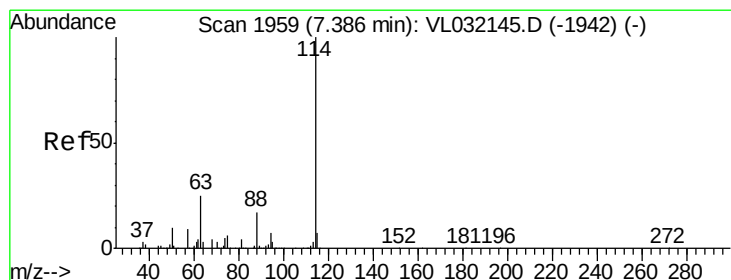
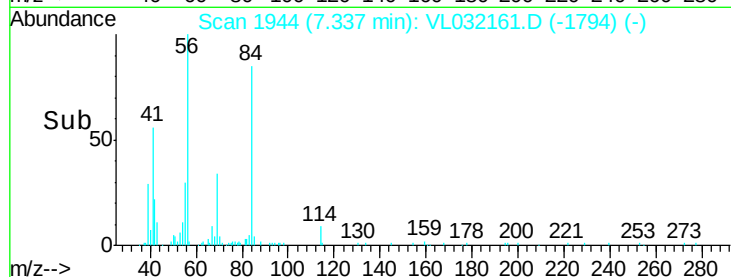
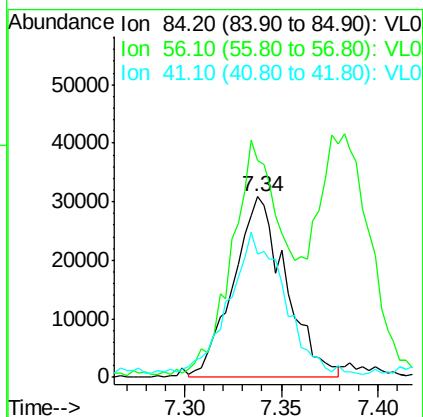
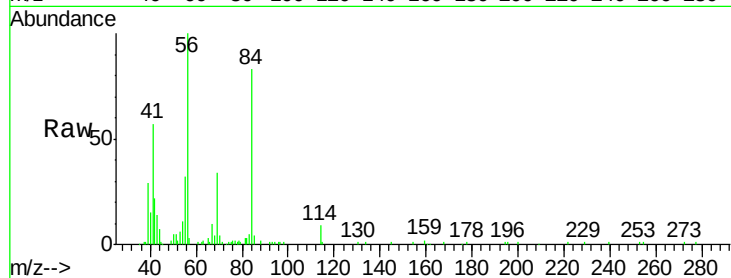
#30
Cyclohexane
Concen: 0.33 ppbv
RT: 7.34 min Scan# 1944
Delta R.T. -0.02 min
Lab File: VL032161.D
Acq: 30 Jun 2018 8:34

Instrument :
MSVOA_L
ClientSampled :
DUPE

Tot Ion	Ratio	Lower	Upper
84	100		
56	134.1	109.1	163.7
41	81.2	64.6	96.8

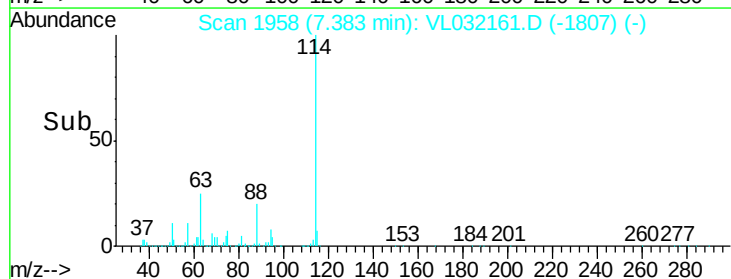
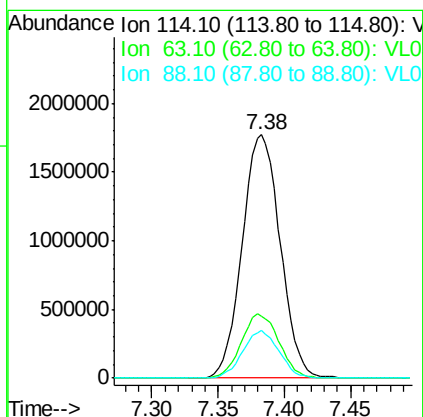
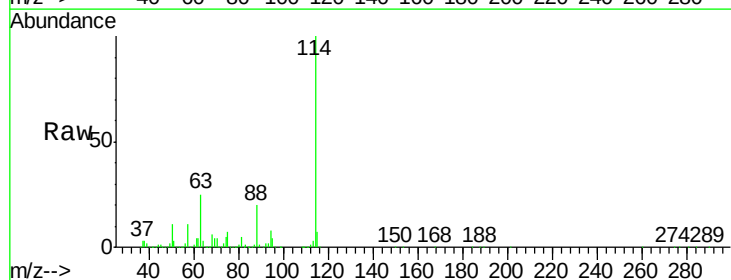
Manual Integrations
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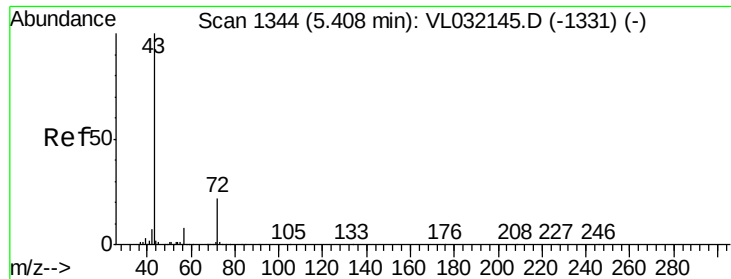
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#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.38 min Scan# 1958
Delta R.T. -0.02 min
Lab File: VL032161.D
Acq: 30 Jun 2018 8:34

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.2	19.1	28.7
88	18.7	13.9	20.9





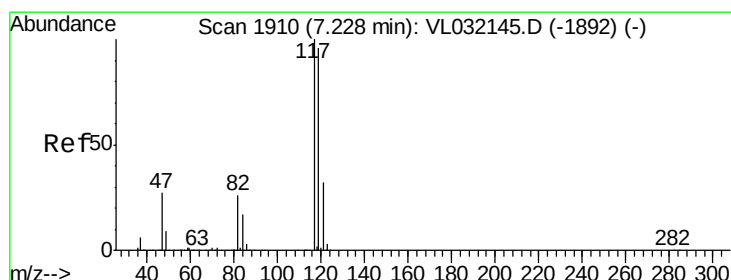
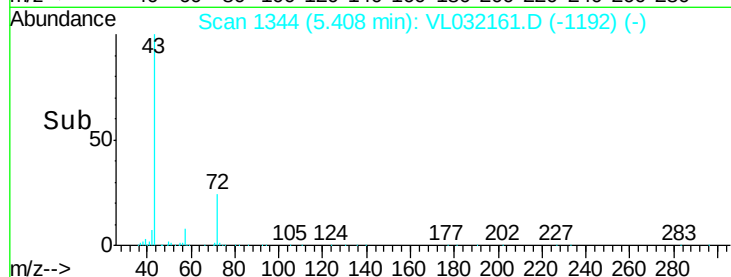
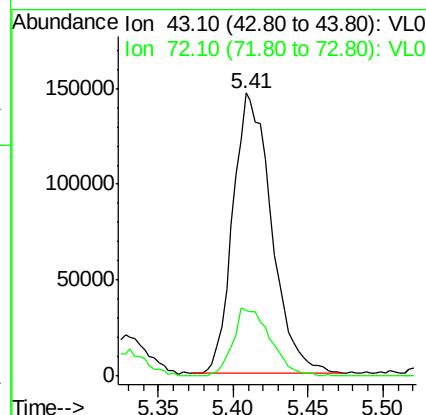
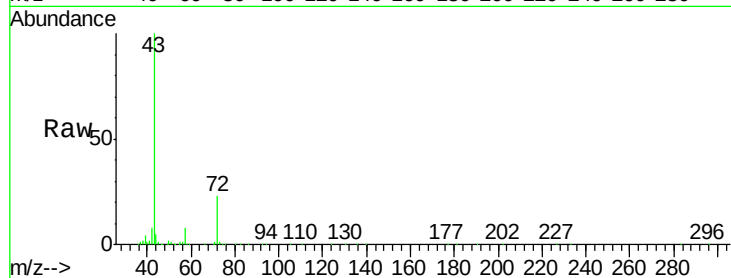
#34
2-Butanone
Concen: 1.17 ppbv
RT: 5.41 min Scan# 1344
Delta R.T. -0.01 min
Lab File: VL032161.D
Acq: 30 Jun 2018 8:34

Instrument :
MSVOA_L
ClientSampleId :
DUPE

Tot Ion: 43 Resp: 262467
Ion Ratio Lower Upper
43 100
72 23.9 18.4 27.6

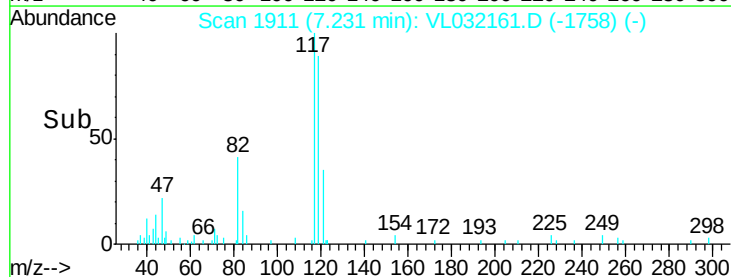
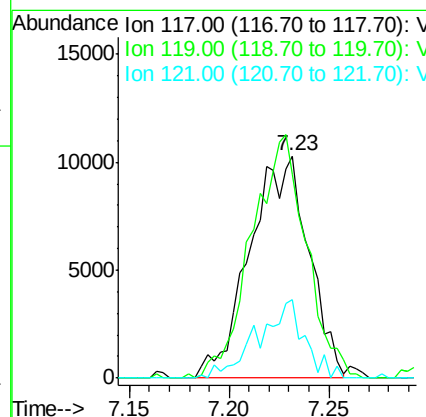
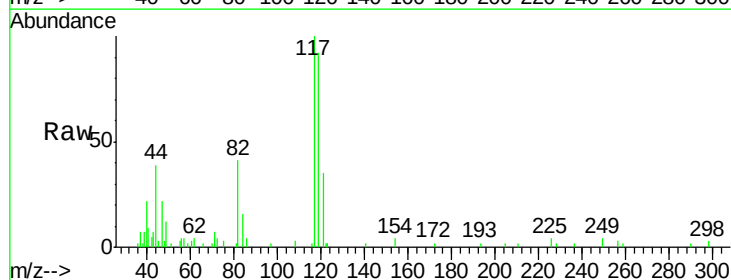
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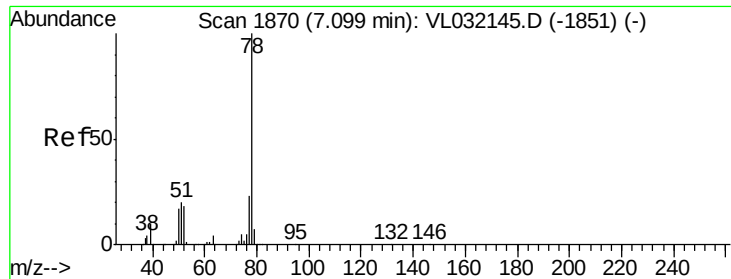
MMDadoda
7/2/2018 4:25:44 PM



#35
Carbon Tetrachloride
Concen: 0.09 ppbv m
RT: 7.23 min Scan# 1911
Delta R.T. -0.01 min
Lab File: VL032161.D
Acq: 30 Jun 2018 8:34

Tgt Ion: 117 Resp: 21081
Ion Ratio Lower Upper
117 100
119 91.7 74.8 112.2
121 35.5 24.0 36.0





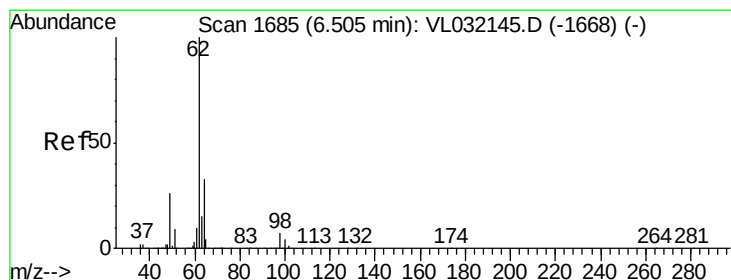
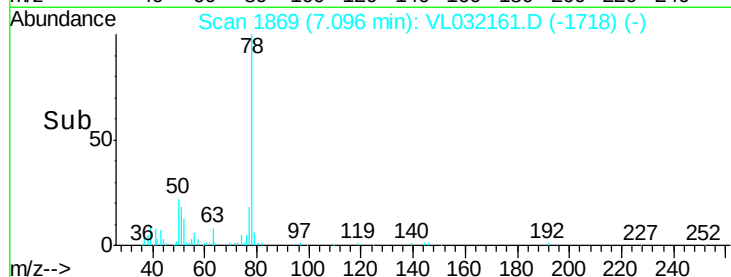
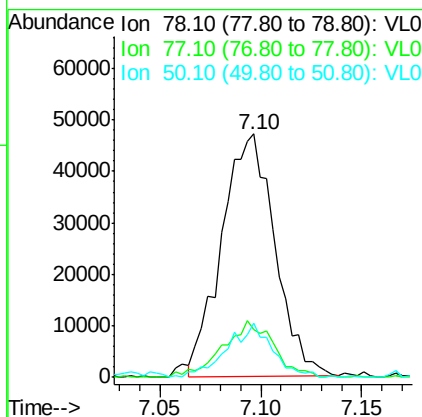
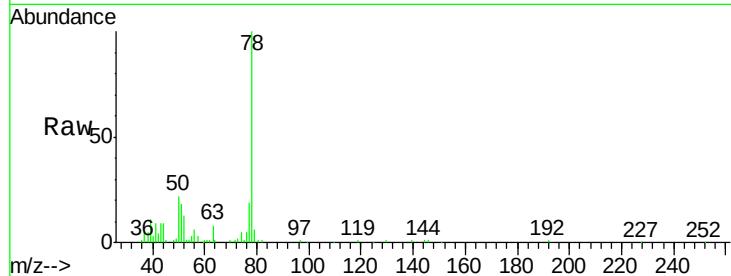
#36
Benzene
Concen: 0.25 ppbv
RT: 7.10 min Scan# 1869
Delta R.T. -0.02 min
Lab File: VL032161.D
Acq: 30 Jun 2018 8:34

Instrument :
MSVOA_L
ClientSampleId :
DUPE

Tot Ion	Ratio	Lower	Upper
78	100		
77	18.7	17.7	26.5
50	22.7	14.0	21.0

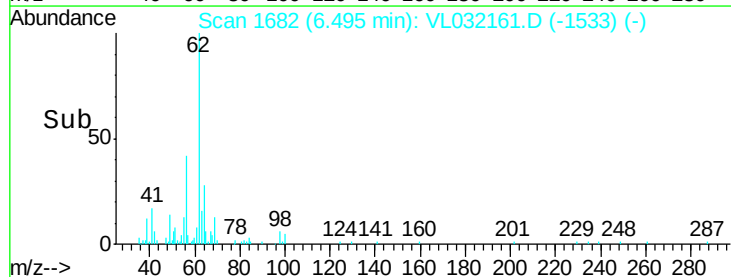
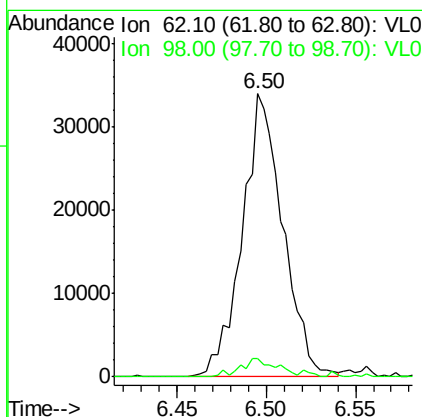
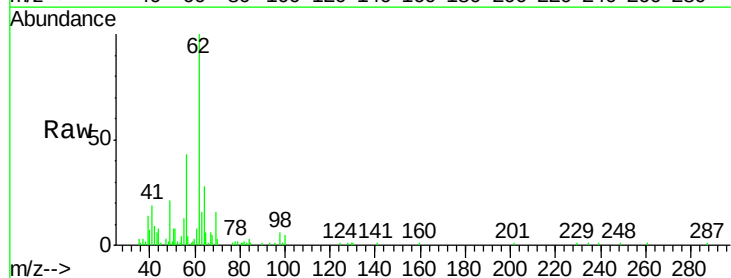
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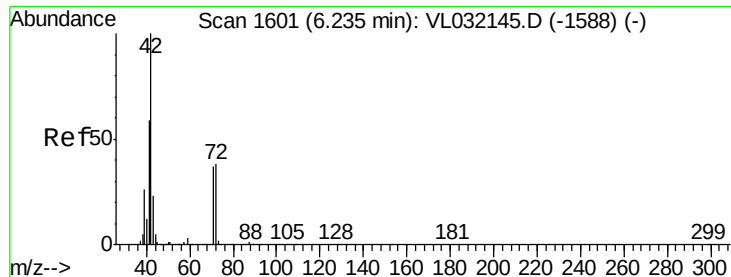
MMDadoda
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#37
1,2-Dichloroethane
Concen: 0.32 ppbv
RT: 6.50 min Scan# 1682
Delta R.T. -0.02 min
Lab File: VL032161.D
Acq: 30 Jun 2018 8:34

Tgt Ion	Ratio	Lower	Upper
62	100		
98	6.6	5.8	8.6





#41

Tetrahydrofuran

Concen: 0.43 ppbv m

RT: 6.24 min Scan# 1604

Delta R.T. -0.00 min

Lab File: VL032161.D

Acq: 30 Jun 2018 8:34

Instrument :

MSVOA_L

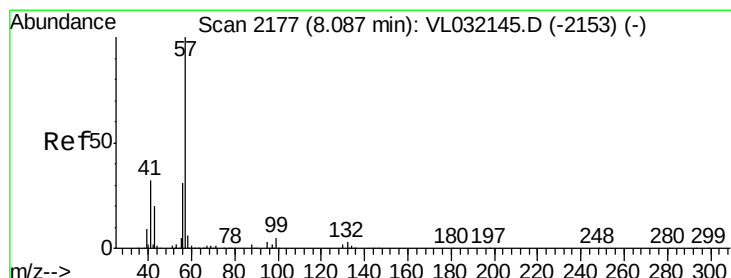
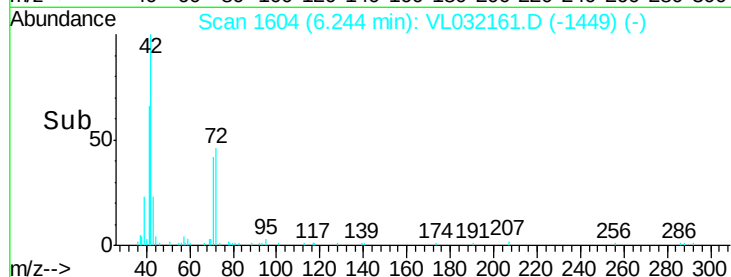
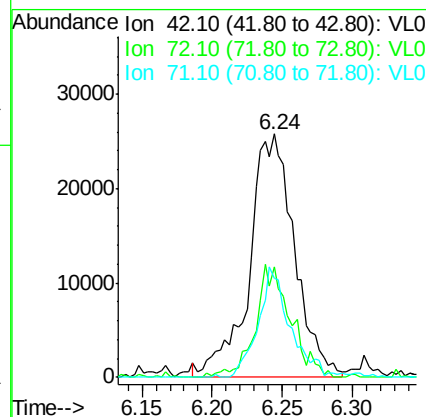
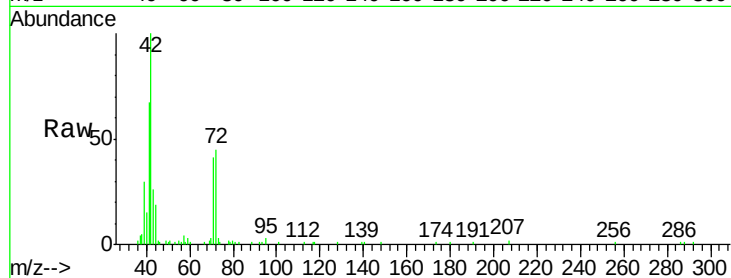
ClientSampleId :

DUPE

Tot Ion:	42	Resp:	57638
Ion Ratio	Lower	Upper	
42	100		
72	36.0	31.1	46.7
71	0.0	29.5	44.3#

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#44

2,2,4-Trimethylpentane

Concen: 0.15 ppbv

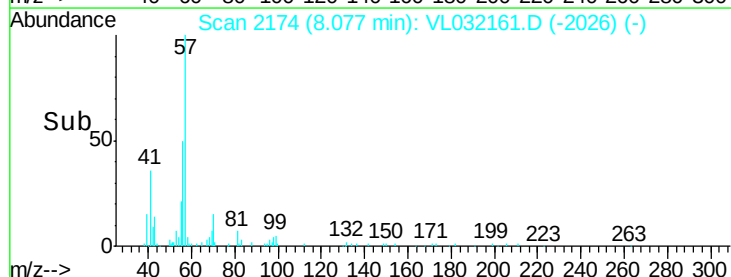
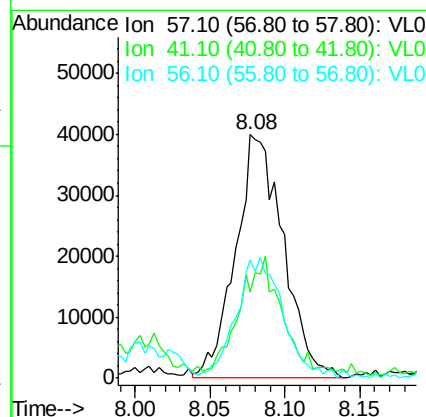
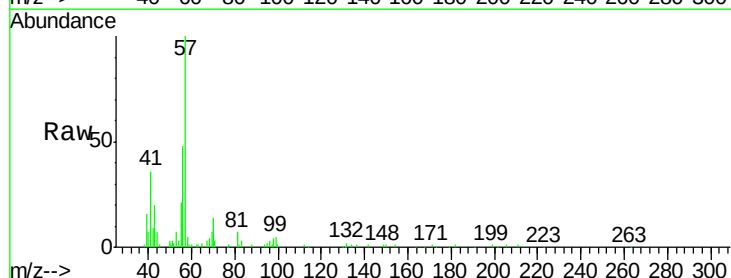
RT: 8.08 min Scan# 2174

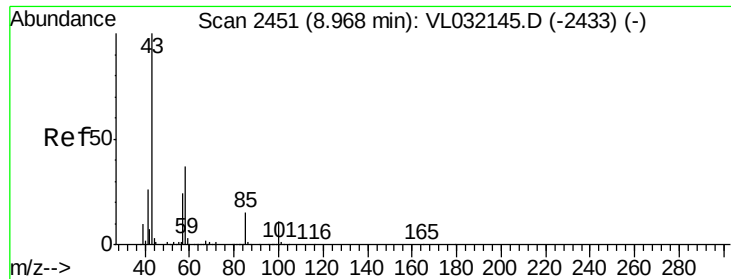
Delta R.T. -0.03 min

Lab File: VL032161.D

Acq: 30 Jun 2018 8:34

Tgt Ion:	57	Resp:	88735
Ion Ratio	Lower	Upper	
57	100		
41	48.0	24.3	36.5#
56	47.4	25.1	37.7#





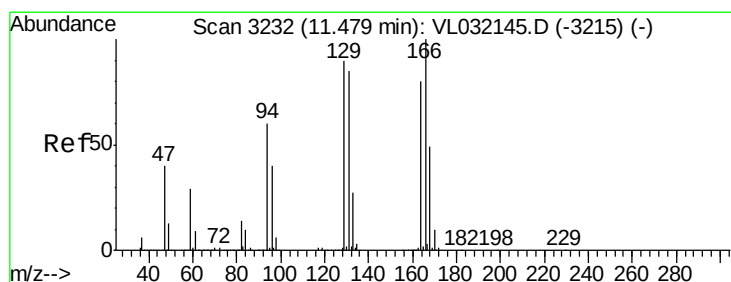
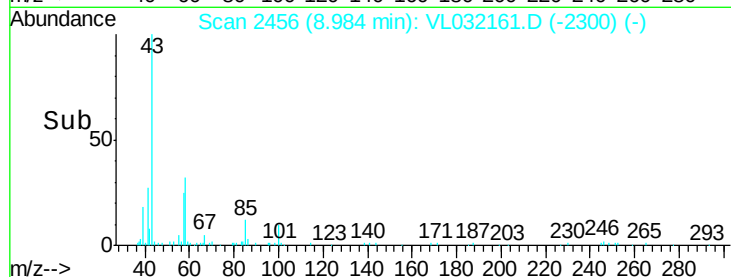
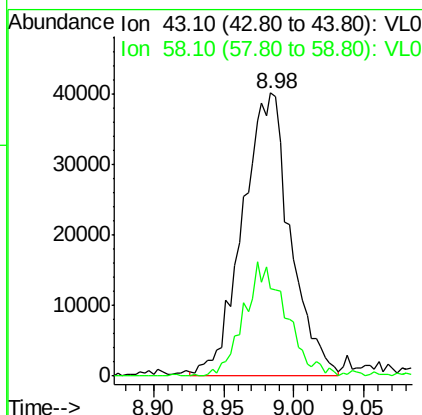
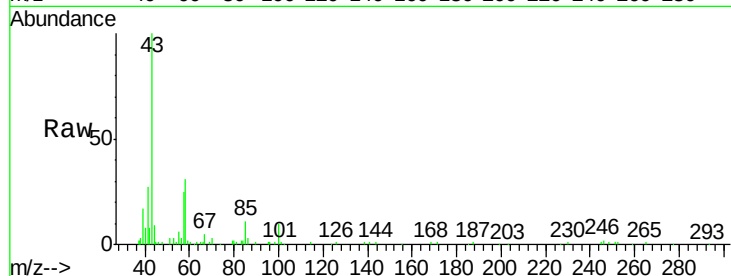
#50
4-Methyl-2-Pentanone
Concen: 0.26 ppbv m
RT: 8.98 min Scan# 2456
Delta R.T. 0.00 min
Lab File: VL032161.D
Acq: 30 Jun 2018 8:34

Instrument :
MSVOA_L
ClientSampled :
DUPE

Tot Ion	Ratio	Lower	Upper
43	100		
58	36.4	29.8	44.6

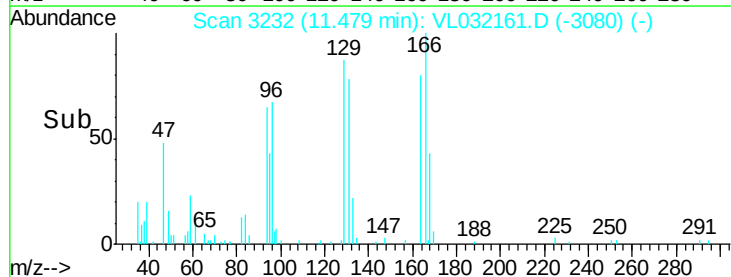
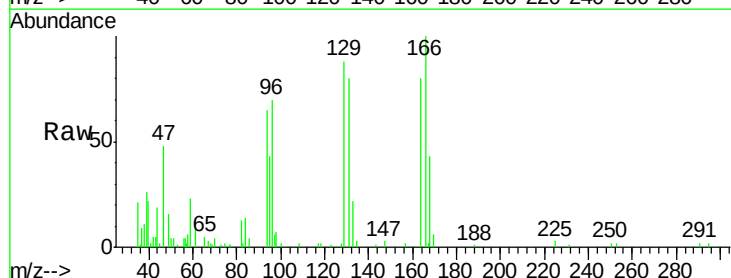
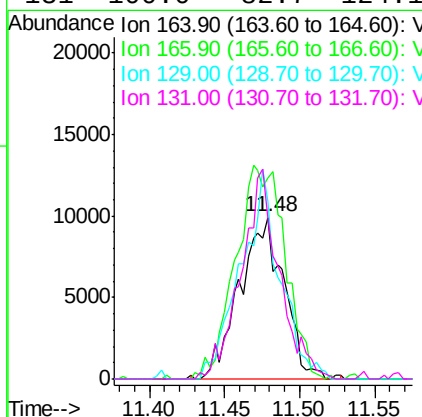
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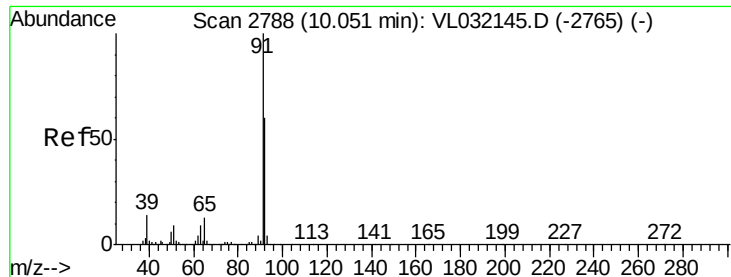
MMDadoda
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#52
Tetrachloroethene
Concen: 0.16 ppbv m
RT: 11.48 min Scan# 3232
Delta R.T. -0.01 min
Lab File: VL032161.D
Acq: 30 Jun 2018 8:34

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.3	100.6	151.0
129	109.8	84.0	126.0
131	100.0	82.7	124.1





#53

Toluene

Concen: 3.72 ppbv

RT: 10.04 min Scan# 2786

Delta R.T. -0.02 min

Lab File: VL032161.D

Acq: 30 Jun 2018 8:34

Instrument :

MSVOA_L

ClientSampleId :

DUPE

Tot Ion: 91 Resp: 1537869

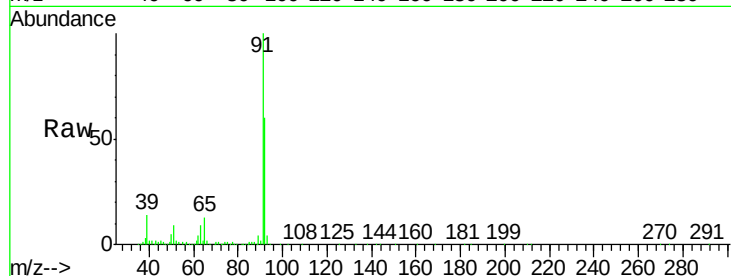
Ion Ratio Lower Upper

91 100

92 60.5 49.2 73.8

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

10.04

800000

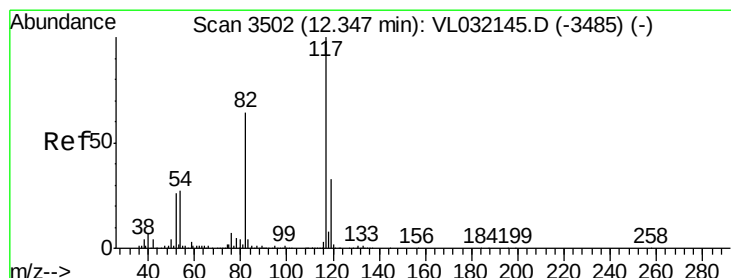
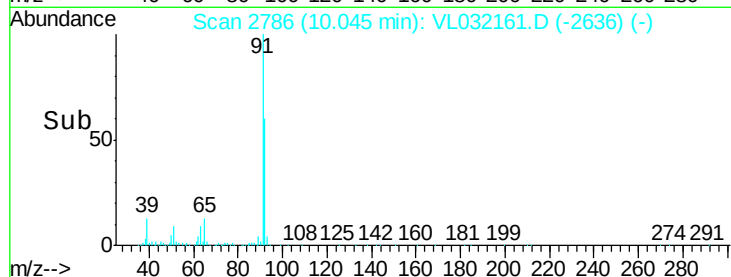
600000

400000

200000

0

Time-->



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.34 min Scan# 3500

Delta R.T. -0.02 min

Lab File: VL032161.D

Acq: 30 Jun 2018 8:34

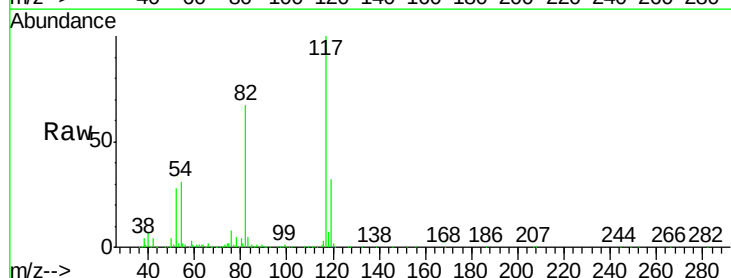
Tgt Ion: 117 Resp: 3455125

Ion Ratio Lower Upper

117 100

82 68.3 47.8 71.8

119 32.3 43.3 64.9#



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

2000000

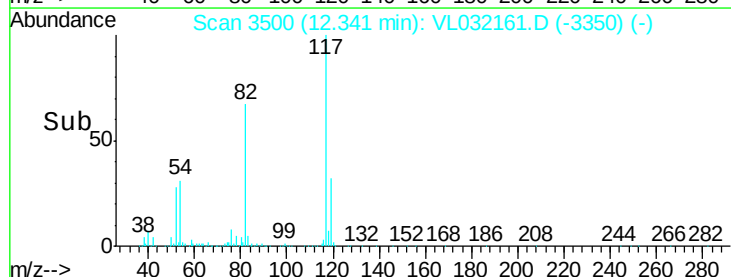
1500000

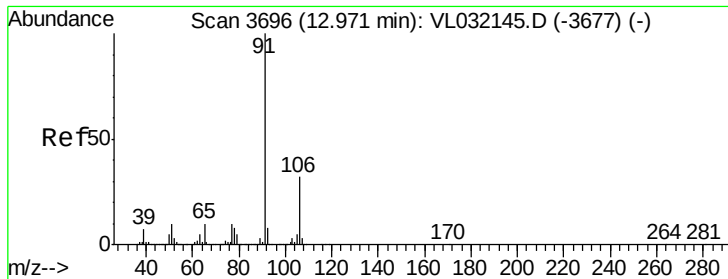
1000000

500000

0

Time-->





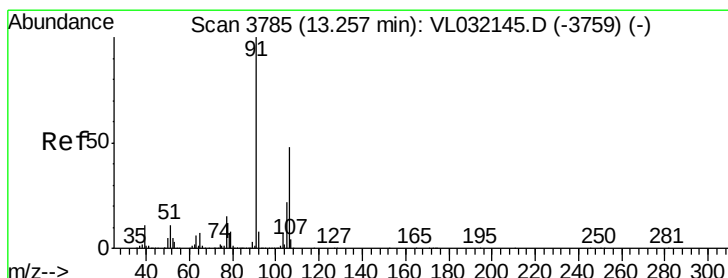
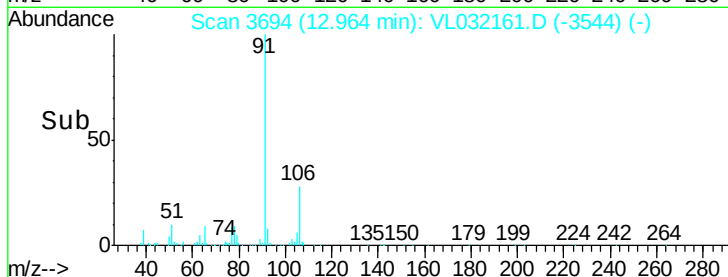
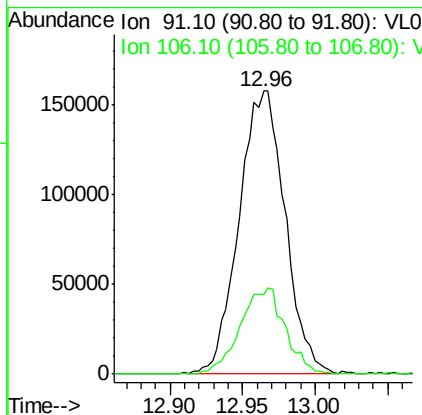
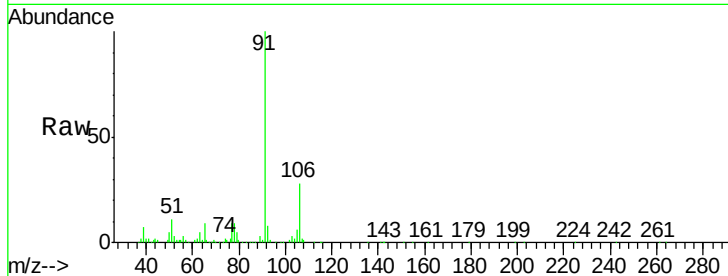
#58
Ethyl Benzene
Concen: 0.62 ppbv
RT: 12.96 min Scan# 3694
Delta R.T. -0.02 min
Lab File: VL032161.D
Acq: 30 Jun 2018 8:34

Instrument :
MSVOA_L
ClientSampled :
DUPE

Tot Ion: 91 Resp: 346927
Ion Ratio Lower Upper
91 100
106 28.4 26.5 39.7

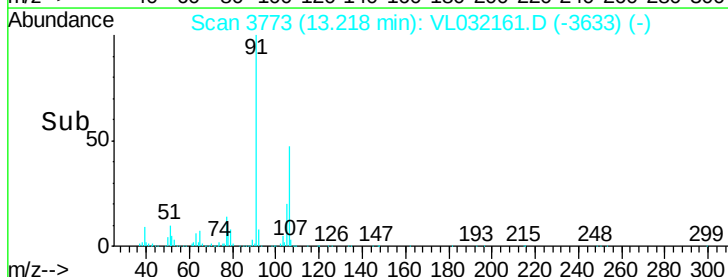
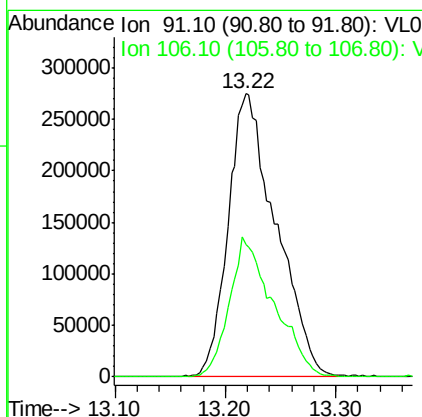
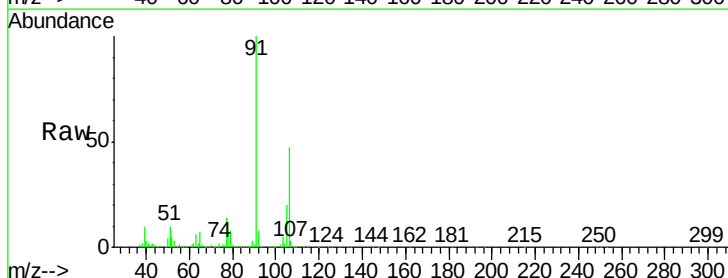
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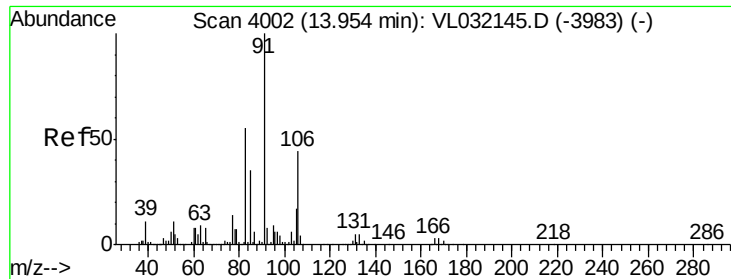
MMDadoda
7/2/2018 4:25:44 PM



#59
m/p-Xylene
Concen: 1.84 ppbv
RT: 13.22 min Scan# 3773
Delta R.T. -0.05 min
Lab File: VL032161.D
Acq: 30 Jun 2018 8:34

Tgt Ion: 91 Resp: 819227
Ion Ratio Lower Upper
91 100
106 46.1 38.6 58.0





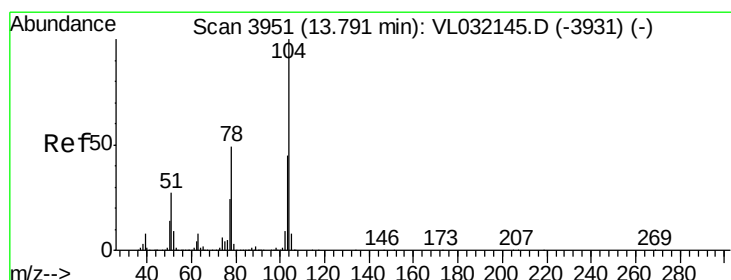
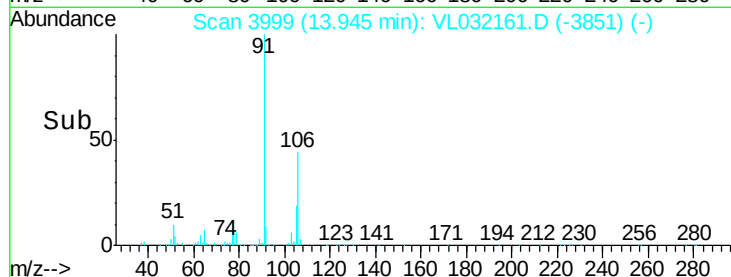
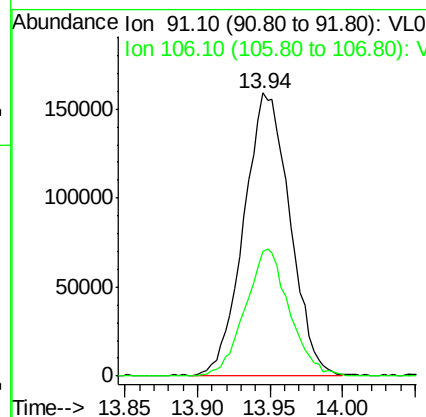
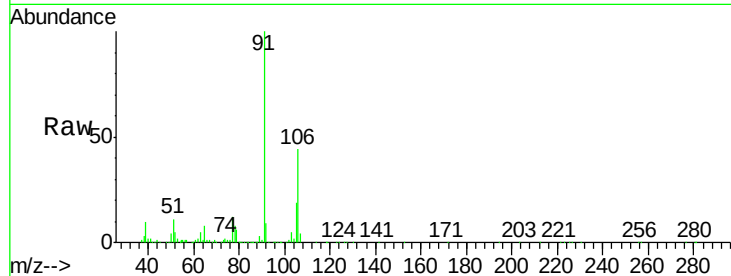
#60
o-Xylene
Concen: 0.79 ppbv
RT: 13.94 min Scan# 3999
Delta R.T. -0.03 min
Lab File: VL032161.D
Acq: 30 Jun 2018 8:34

Instrument :
MSVOA_L
ClientSampled :
DUPE

Tot Ion: 91 Resp: 350135
Ion Ratio Lower Upper
91 100
106 43.5 23.3 69.8

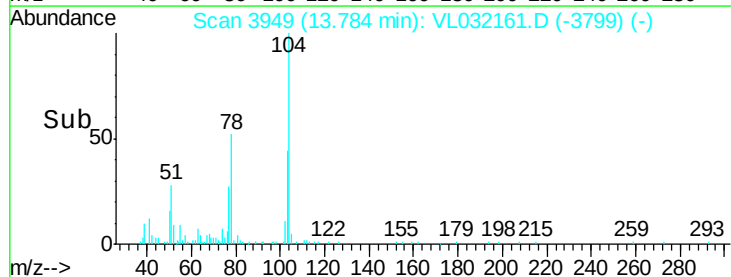
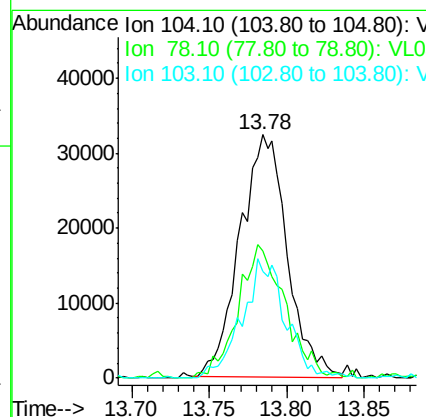
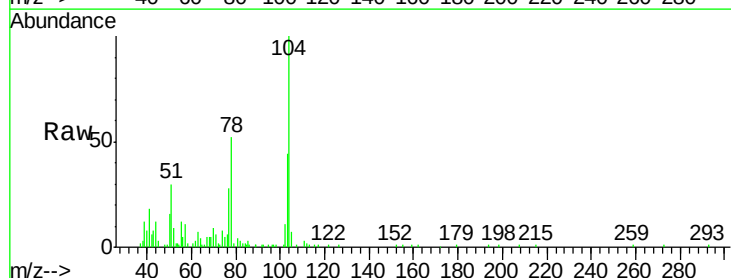
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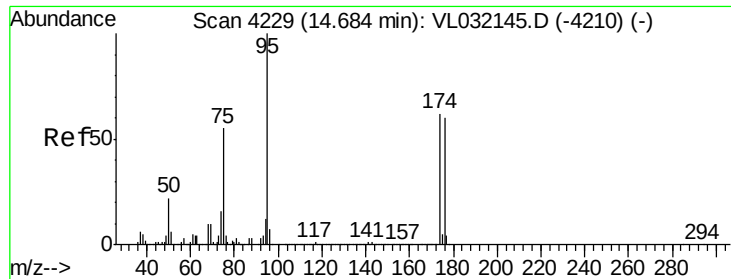
MMDadoda
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#61
Styrene
Concen: 0.19 ppbv
RT: 13.78 min Scan# 3949
Delta R.T. -0.02 min
Lab File: VL032161.D
Acq: 30 Jun 2018 8:34

Tgt Ion: 104 Resp: 68774
Ion Ratio Lower Upper
104 100
78 54.7 37.9 56.9
103 45.2 36.6 55.0





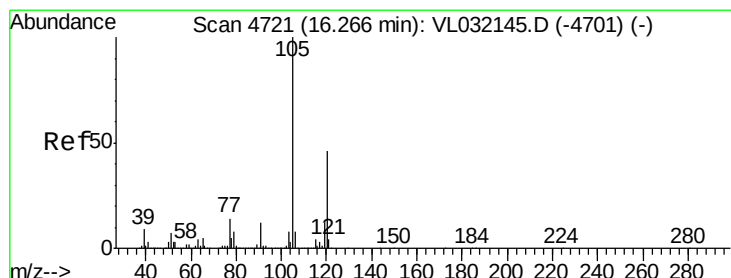
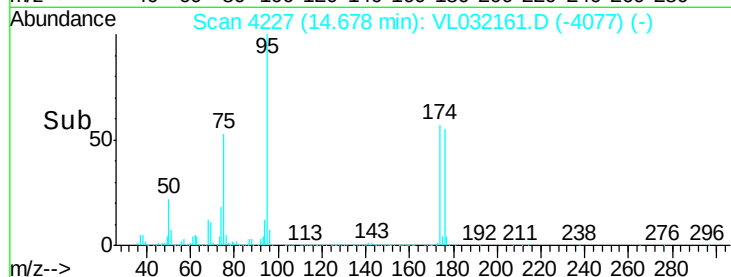
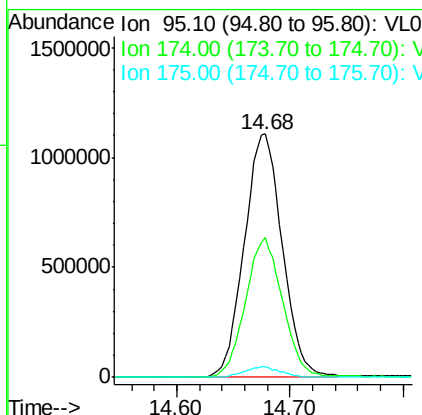
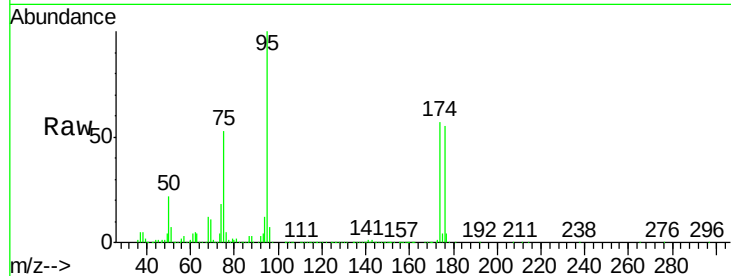
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.80 ppbv
 RT: 14.68 min Scan# 4227
 Delta R.T. -0.02 min
 Lab File: VL032161.D
 Acq: 30 Jun 2018 8:34

Instrument :
 MSVOA_L
 ClientSampled :
 DUPE

Tot Ion: 95 Resp: 2587174
 Ion Ratio Lower Upper
 95 100
 174 56.4 52.1 78.1
 175 4.2 4.0 6.0

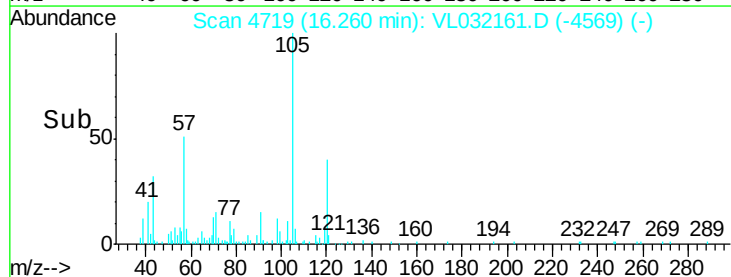
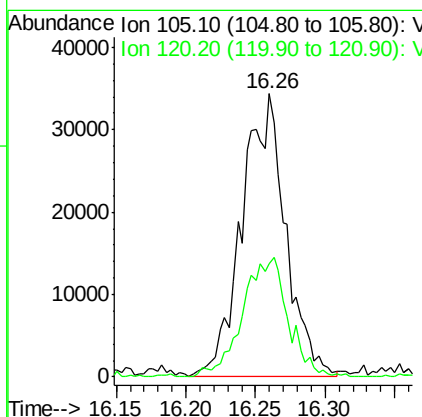
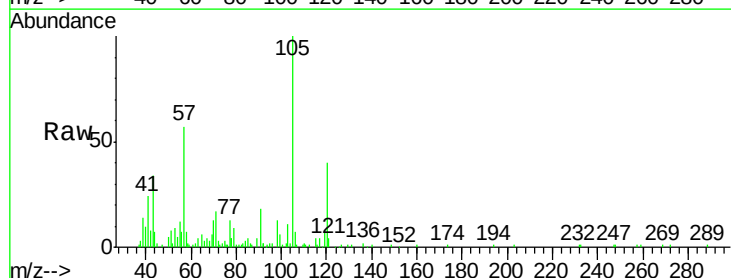
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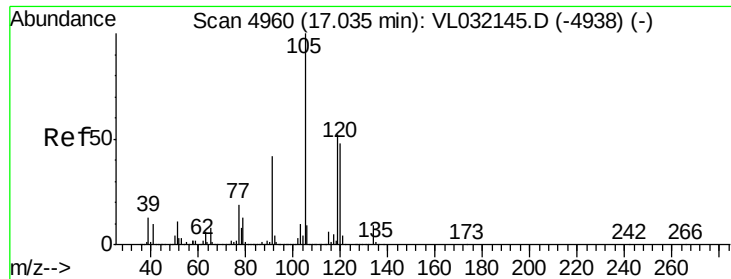
MMDadoda
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#73
 1,3,5-Trimethylbenzene
 Concen: 0.14 ppbv m
 RT: 16.26 min Scan# 4719
 Delta R.T. -0.02 min
 Lab File: VL032161.D
 Acq: 30 Jun 2018 8:34

Tgt Ion: 105 Resp: 75063
 Ion Ratio Lower Upper
 105 100
 120 39.9 38.6 57.8





#74
 1,2,4-Trimethylbenzene
 Concen: 0.41 ppbv m
 RT: 17.03 min Scan# 4957
 Delta R.T. -0.02 min
 Lab File: VL032161.D
 Acq: 30 Jun 2018 8:34

Instrument :
 MSVOA_L
 ClientSampleId :
 DUPE

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	39.9	38.8	58.2
91	12.4	33.6	50.4#
77	16.8	16.0	24.0

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