

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091019\
 Data File : VL034142.D
 Acq On : 10 Sep 2019 14:37
 Operator : SY/AP
 Sample : K4775-02DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV5DL

Manual Integrations
 APPROVED

MMDadoda
 9/12/2019 5:16:47 AM

Quant Time: Sep 11 21:37:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 0
 QLast Update : Thu Sep 05 10:21:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	887662	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.23	114	1730987	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	1726827	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.50	95	1472147	10.43	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.00	41	331334	5.985	ppbv	94
10) Heptane	8.17	43	75235m	0.524	ppbv	
13) Ethanol	3.60	45	86096	7.939	ppbv	98
15) Acetone	3.85	43	7102612	66.391	ppbv #	64
17) tert-Butyl alcohol	4.30	59	195215	2.514	ppbv	98
19) Isopropyl Alcohol	3.97	45	320750	4.442	ppbv #	97
26) Hexane	5.72	57	204570	1.959	ppbv #	36
27) Carbon Disulfide	4.56	76	68520	0.727	ppbv #	92
29) Chloroform	5.80	83	27749m	0.197	ppbv	
30) Cyclohexane	7.18	84	22696m	0.301	ppbv	
34) 2-Butanone	5.27	43	1229454	7.388	ppbv	99
36) Benzene	6.94	78	99524	0.503	ppbv #	92
44) 2,2,4-Trimethylpentane	7.92	57	394206	1.081	ppbv	94
50) 4-Methyl-2-Pentanone	8.81	43	87308	0.344	ppbv	93
51) 2-Hexanone	10.20	43	341277	1.556	ppbv #	100
52) Tetrachloroethene	11.30	164	143621m	2.059	ppbv	
53) Toluene	9.87	91	355446	1.624	ppbv	98
58) Ethyl Benzene	12.79	91	107842	0.381	ppbv #	85
59) m/p-Xylene	13.05	91	340983m	1.476	ppbv	
60) o-Xylene	13.77	91	125456m	0.545	ppbv	
64) n-propylbenzene	15.64	120	10786m	0.144	ppbv	
70) n-Butylbenzene	18.65	91	35113m	0.104	ppbv	
72) 4-Ethyltoluene	15.92	105	59230	0.228	ppbv	98
73) 1,3,5-Trimethylbenzene	16.08	105	43318m	0.172	ppbv	
74) 1,2,4-Trimethylbenzene	16.85	105	168105m	0.647	ppbv	

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

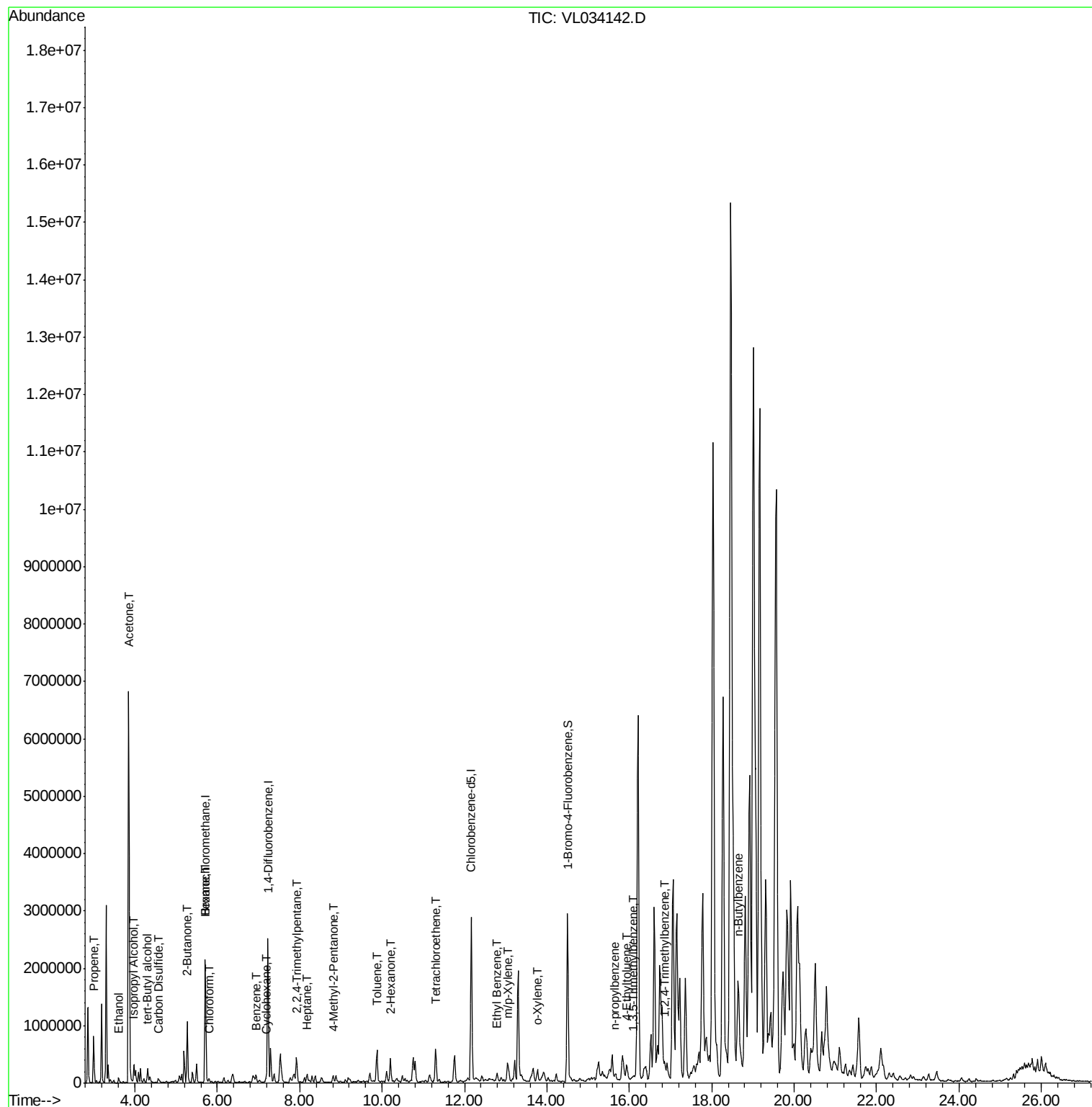
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091019\
Data File : VL034142.D
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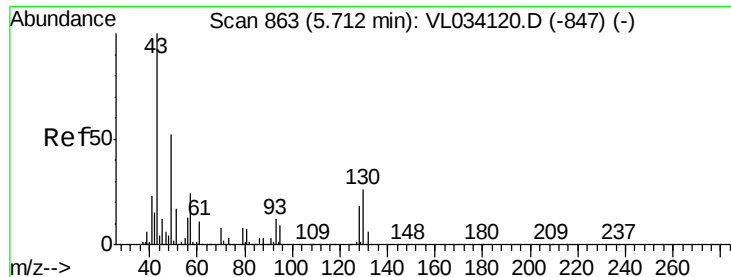
Instrument :
MSVOA_L
ClientSampleId :
SV5DL

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Quant Time: Sep 11 21:37:23 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep
QLast Update : Thu Sep 05 10:21:45 2019
Response via : Initial Calibration





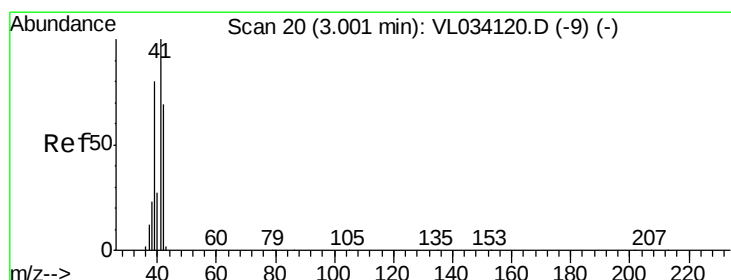
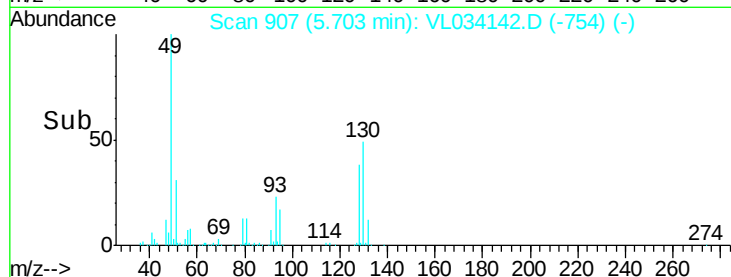
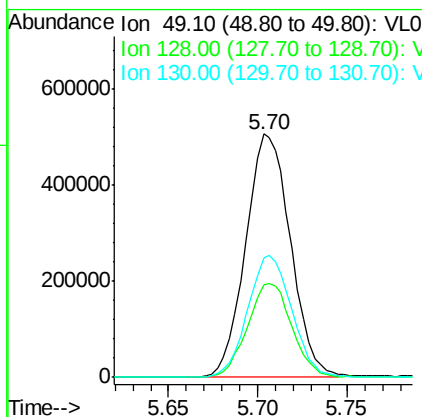
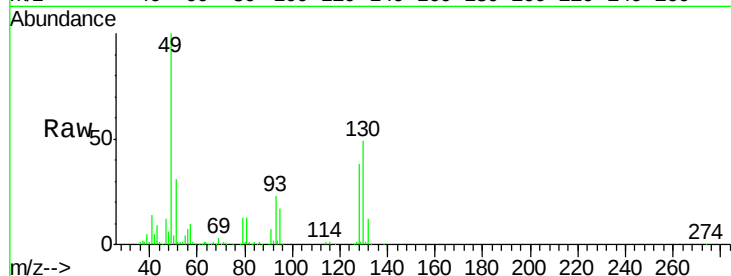
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.70 min Scan# 907
 Delta R.T. -0.01 min
 Lab File: VL034142.D
 Acq: 10 Sep 2019 14:37

Instrument :
 MSVOA_L
 ClientSampleId :
 SV5DL

Tot Ion	Ratio	Lower	Upper
49	100		
128	38.7	18.4	55.0
130	49.7	23.5	70.6

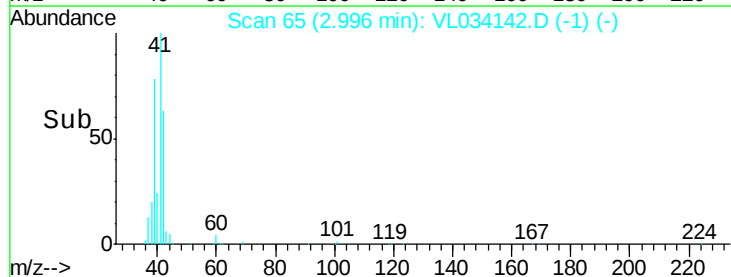
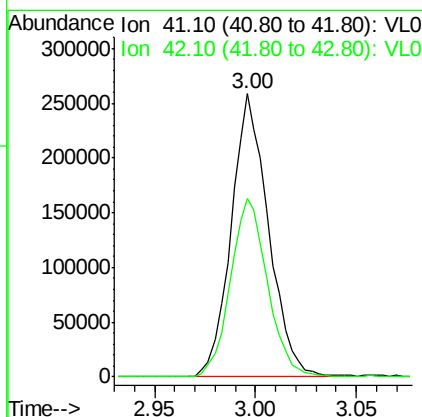
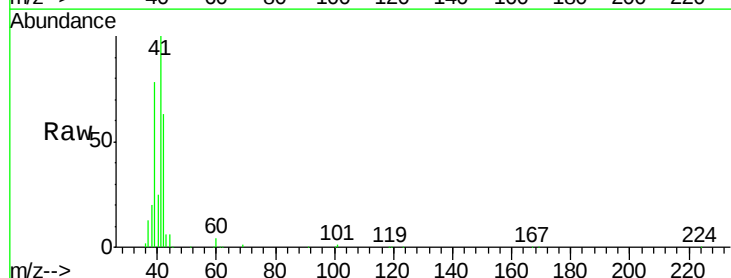
Manual Integrations
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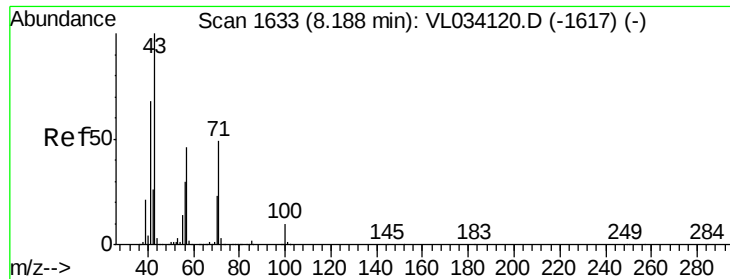
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#9
 Propene
 Concen: 5.985 ppbv
 RT: 3.00 min Scan# 65
 Delta R.T. -0.01 min
 Lab File: VL034142.D
 Acq: 10 Sep 2019 14:37

Tgt Ion	Ratio	Lower	Upper
41	100		
42	63.6	54.6	81.8





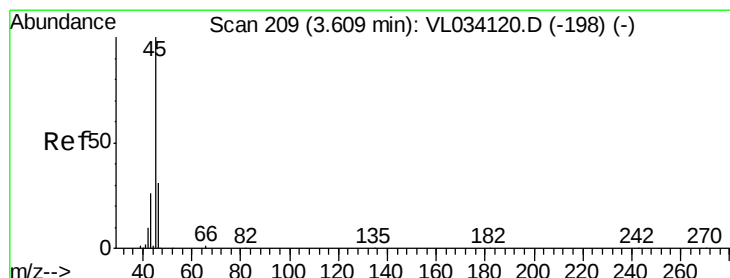
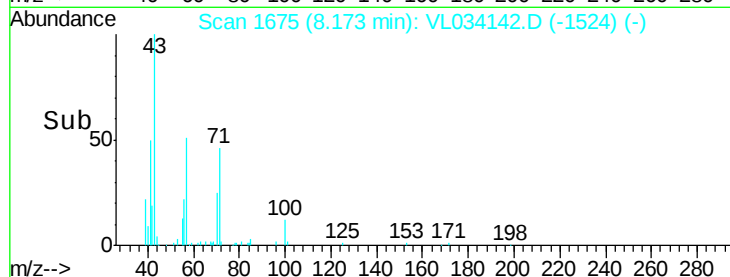
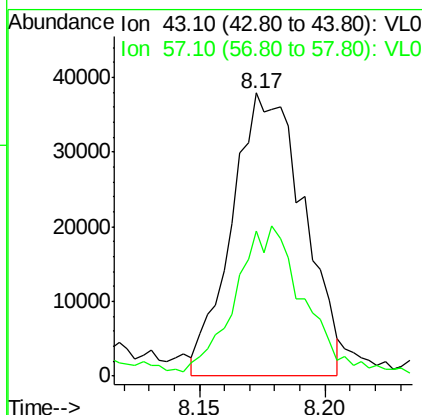
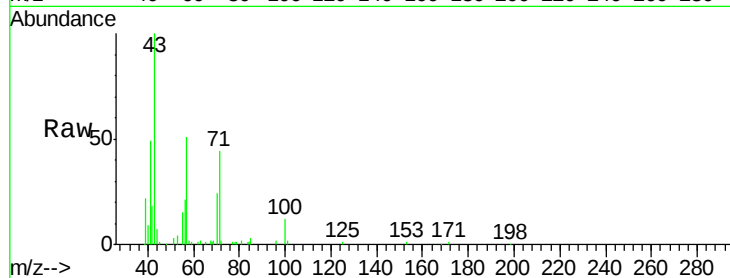
#10
Heptane
Concen: 0.524 ppbv m
RT: 8.17 min Scan# 1675
Delta R.T. -0.01 min
Lab File: VL034142.D
Acq: 10 Sep 2019 14:37

Instrument :
MSVOA_L
ClientSampled :
SV5DL

Tot Ion: 43 Resp: 75235
Ion Ratio Lower Upper
43 100
57 0.0 38.1 57.1#

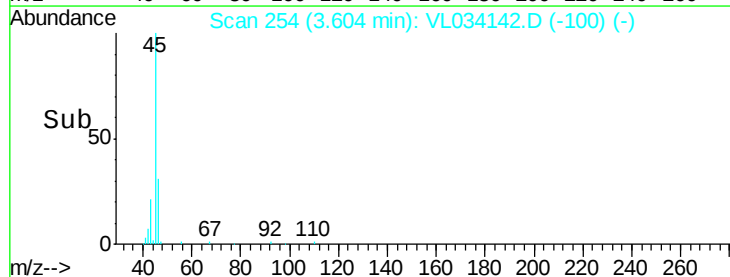
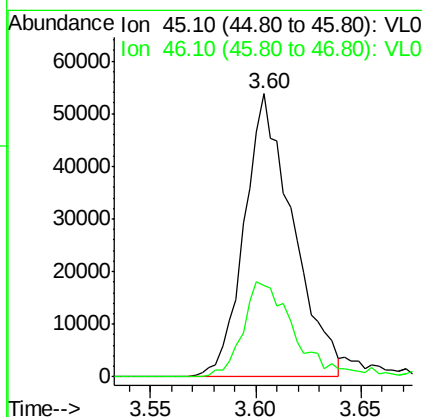
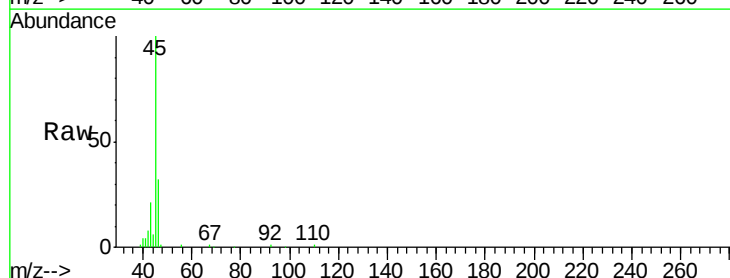
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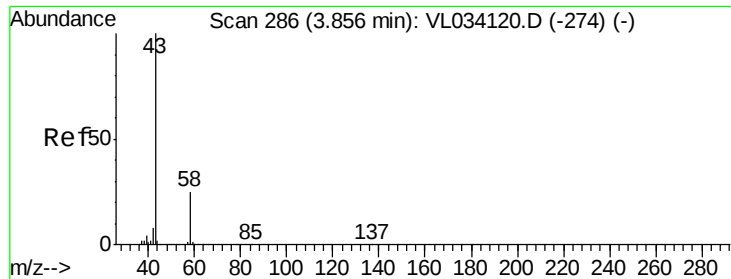
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#13
Ethanol
Concen: 7.939 ppbv
RT: 3.60 min Scan# 254
Delta R.T. -0.01 min
Lab File: VL034142.D
Acq: 10 Sep 2019 14:37

Tgt Ion: 45 Resp: 86096
Ion Ratio Lower Upper
45 100
46 36.4 15.0 60.0





#15

Acetone

Concen: 66.391 ppbv

RT: 3.85 min Scan# 330

Delta R.T. -0.01 min

Lab File: VL034142.D

Acq: 10 Sep 2019 14:37

Instrument :

MSVOA_L

ClientSampleId :

SV5DL

Tot Ion: 43 Resp: 7102612

Ion Ratio Lower Upper

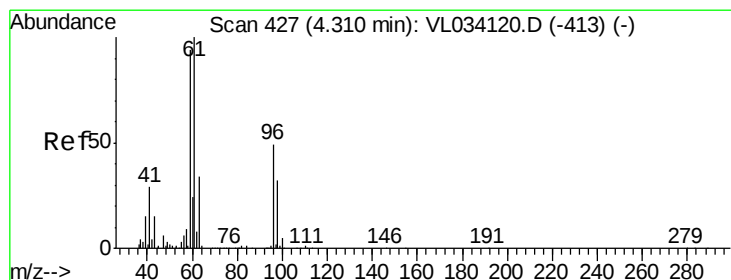
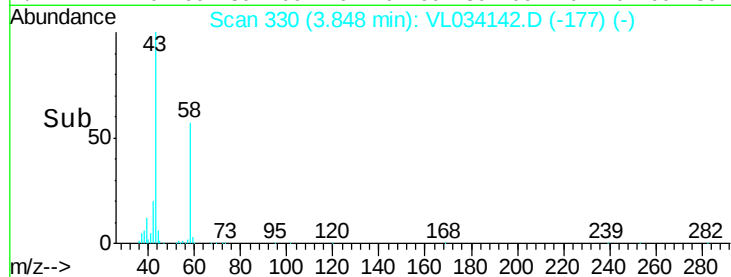
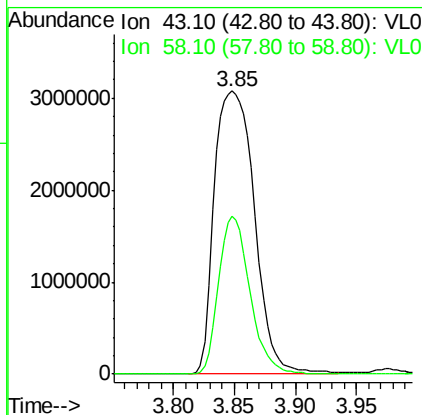
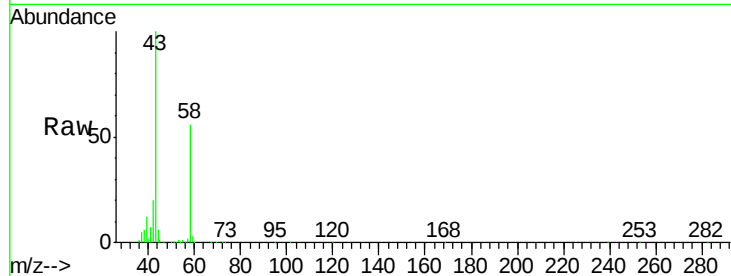
43 100

58 43.9 20.6 30.8#

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#17

tert-Butyl alcohol

Concen: 2.514 ppbv

RT: 4.30 min Scan# 472

Delta R.T. -0.01 min

Lab File: VL034142.D

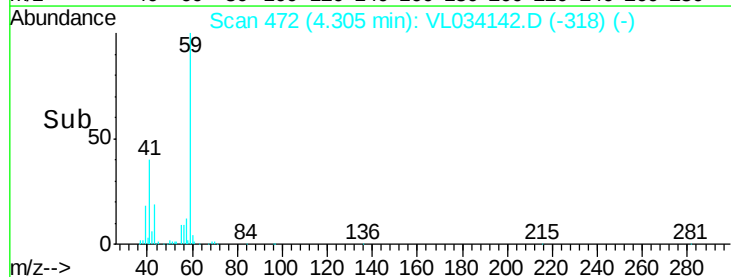
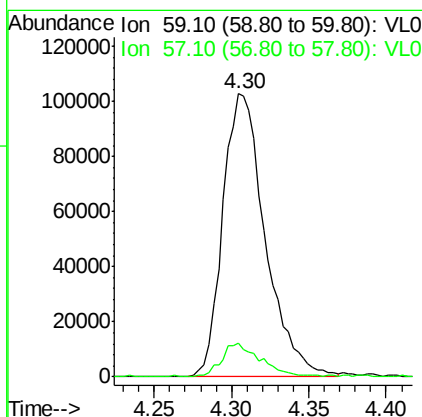
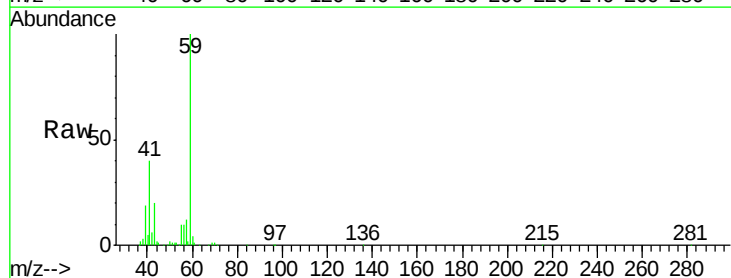
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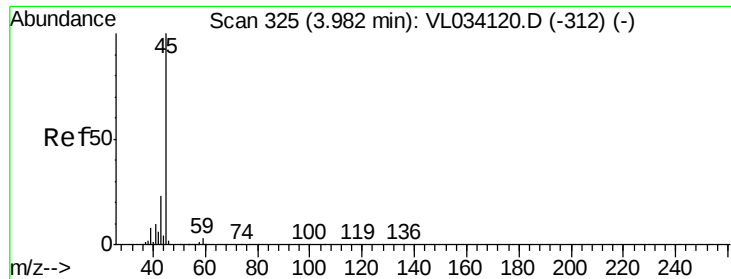
Tgt Ion: 59 Resp: 195215

Ion Ratio Lower Upper

59 100

57 11.6 8.6 12.8





#19

Isopropyl Alcohol

Concen: 4.442 ppbv

RT: 3.97 min Scan# 369

Delta R.T. -0.01 min

Lab File: VL034142.D

Acq: 10 Sep 2019 14:37

Instrument :

MSVOA_L

ClientSampleId :

SV5DL

Tot Ion: 45 Resp: 320750

Ion Ratio Lower Upper

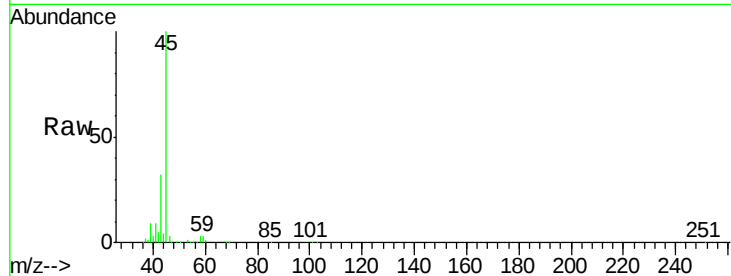
45 100

58 0.0 1.0 1.6#

Manual Integrations
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.97

200000

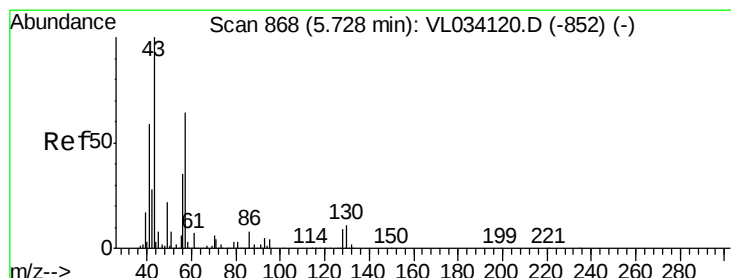
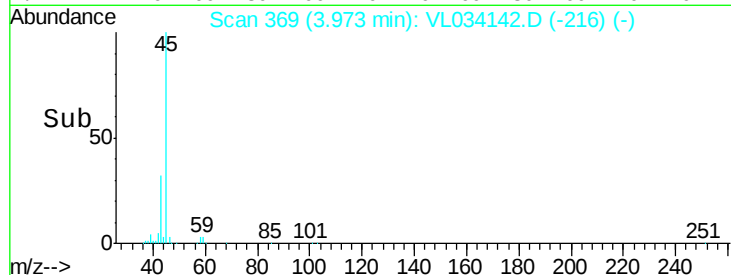
150000

100000

50000

0

Time--> 3.90 3.95 4.00 4.05



#26

Hexane

Concen: 1.959 ppbv

RT: 5.72 min Scan# 912

Delta R.T. -0.01 min

Lab File: VL034142.D

Acq: 10 Sep 2019 14:37

Tgt Ion: 57 Resp: 204570

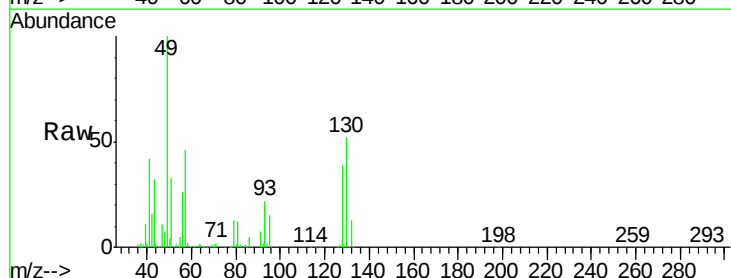
Ion Ratio Lower Upper

57 100

41 113.0 76.6 115.0

43 75.1 189.2 283.8#

56 59.1 43.0 64.4



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

5.72

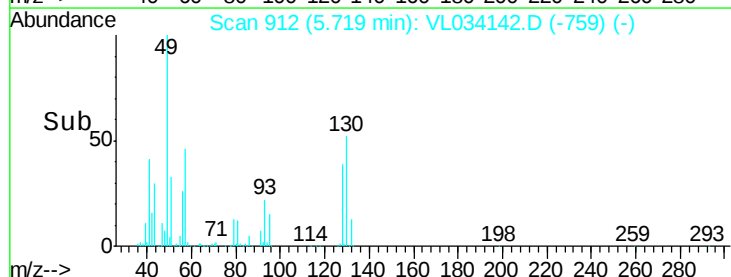
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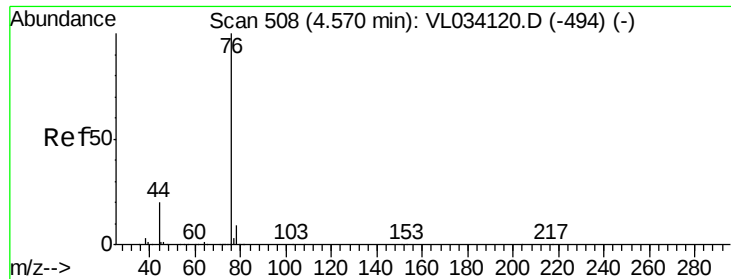
100000

50000

0

Time--> 5.65 5.70 5.75





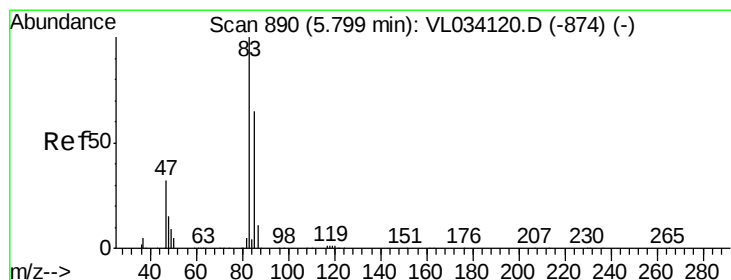
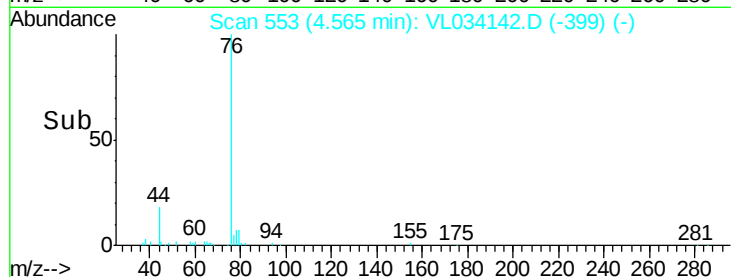
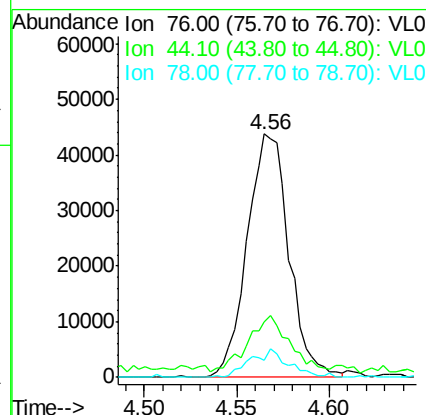
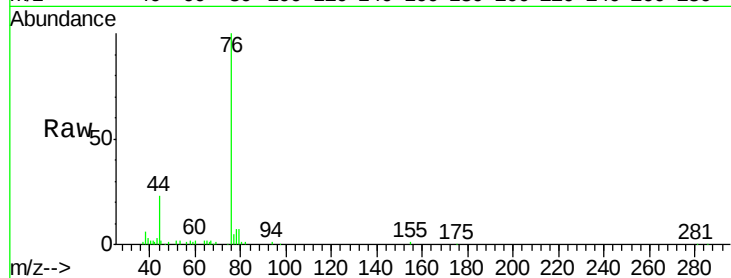
#27
Carbon Disulfide
Concen: 0.727 ppbv
RT: 4.56 min Scan# 553
Delta R.T. -0.01 min
Lab File: VL034142.D
Acq: 10 Sep 2019 14:37

Instrument :
MSVOA_L
ClientSampled :
SV5DL

Tot Ion	Ratio	Lower	Upper
76	100		
44	26.6	17.6	26.4#
78	10.6	7.3	10.9

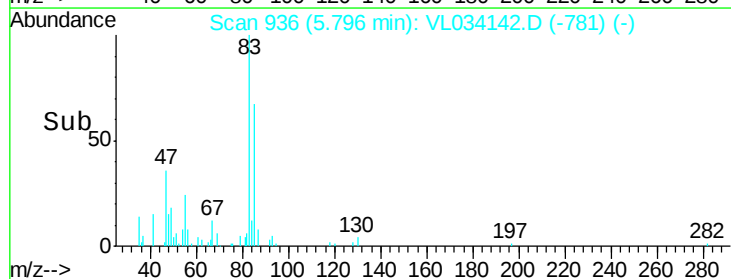
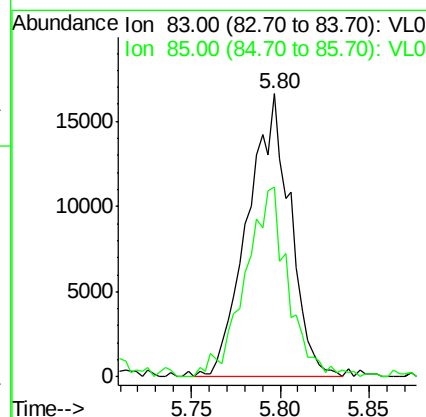
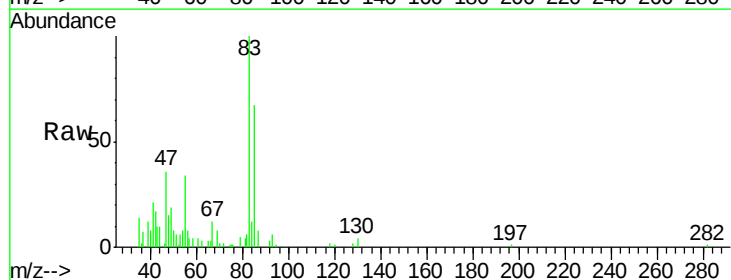
Manual Integrations
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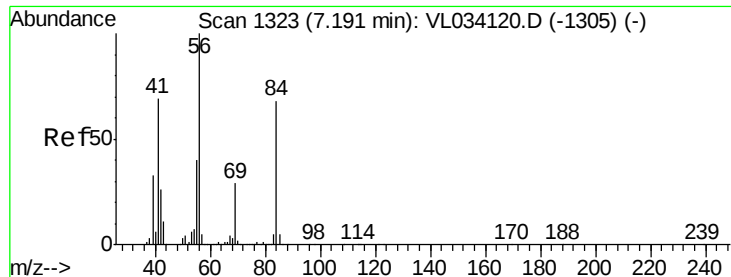
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#29
Chloroform
Concen: 0.197 ppbv m
RT: 5.80 min Scan# 936
Delta R.T. -0.00 min
Lab File: VL034142.D
Acq: 10 Sep 2019 14:37

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.0	51.8	77.6





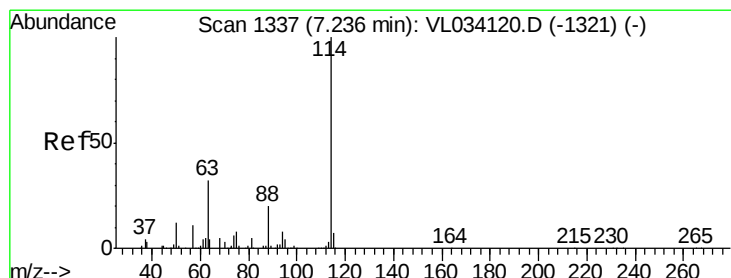
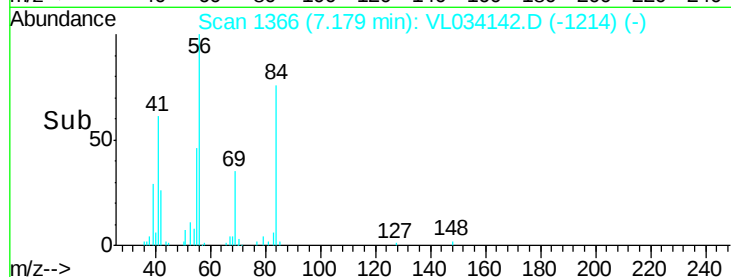
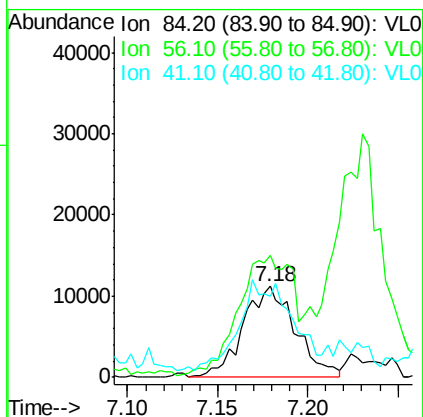
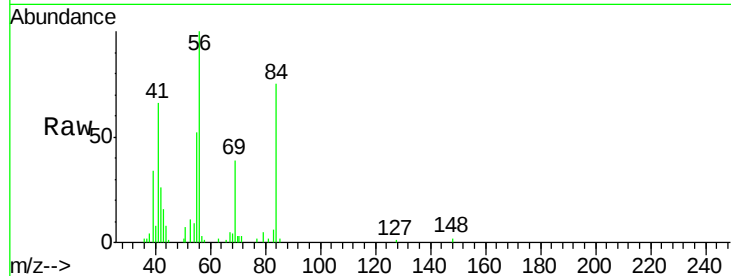
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Cvclohexane
Concen: 0.301 ppbv m
RT: 7.18 min Scan# 1366
Delta R.T. -0.01 min
Lab File: VL034142.D
Acq: 10 Sep 2019 14:37

Instrument :
MSVOA_L
ClientSampled :
SV5DL

Tot Ion	Ratio	Lower	Upper
84	100		
56	151.9	122.6	183.8
41	0.0	79.1	118.7#

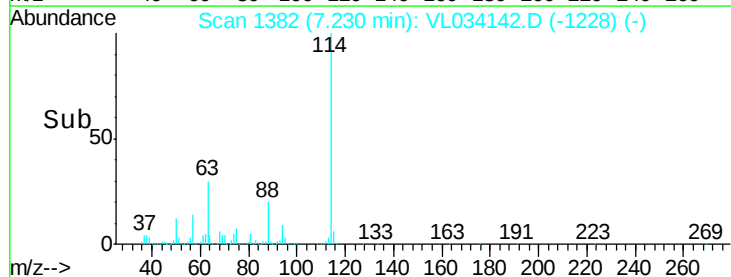
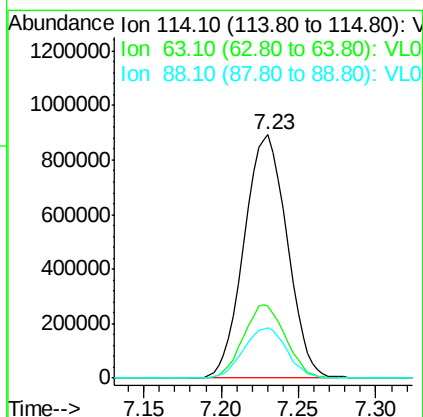
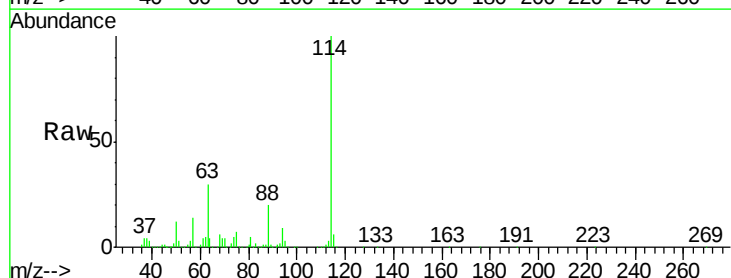
Manual Integrations
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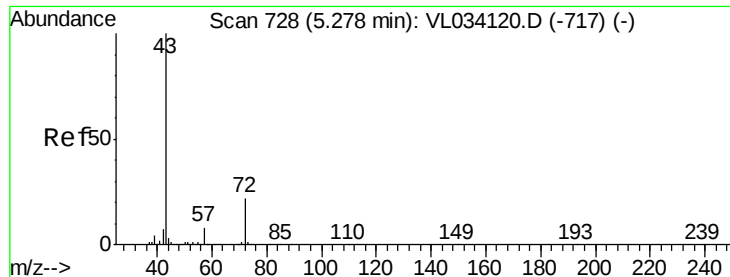
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9/12/2019 5:16:47 AM



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.23 min Scan# 1382
Delta R.T. -0.01 min
Lab File: VL034142.D
Acq: 10 Sep 2019 14:37

Tgt Ion	Ratio	Lower	Upper
114	100		
63	29.7	25.5	38.3
88	20.7	16.8	25.2





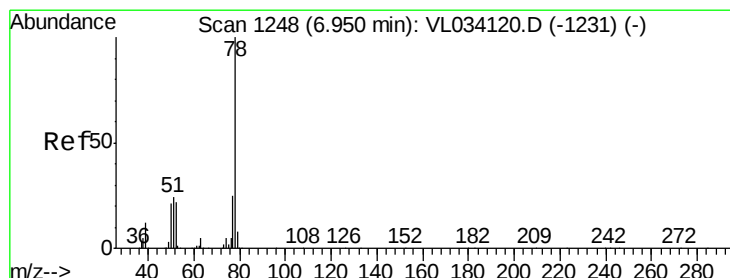
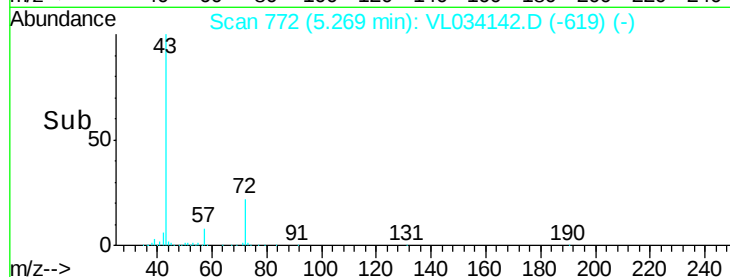
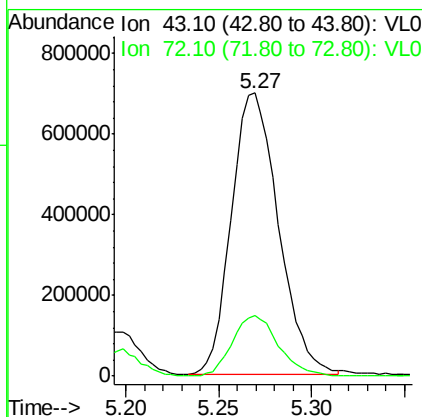
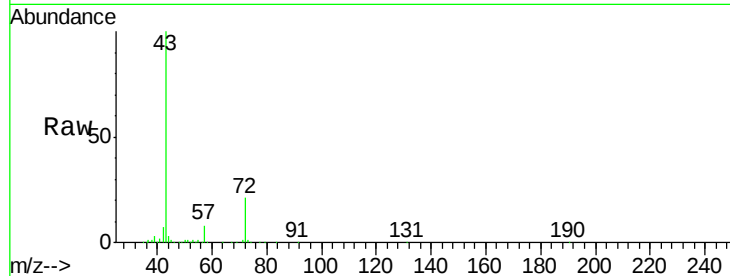
#34
2-Butanone
Concen: 7.388 ppbv
RT: 5.27 min Scan# 772
Delta R.T. -0.01 min
Lab File: VL034142.D
Acq: 10 Sep 2019 14:37

Instrument :
MSVOA_L
ClientSampleId :
SV5DL

Tot Ion: 43 Resp: 1229454
Ion Ratio Lower Upper
43 100
72 21.0 16.5 24.7

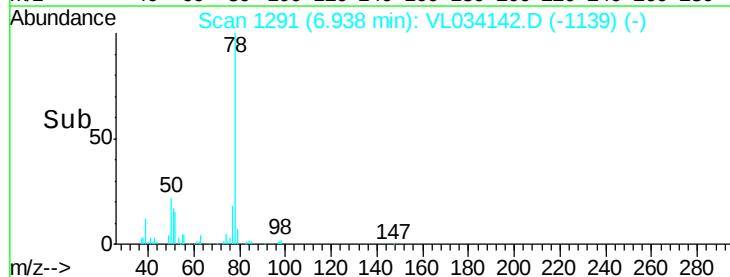
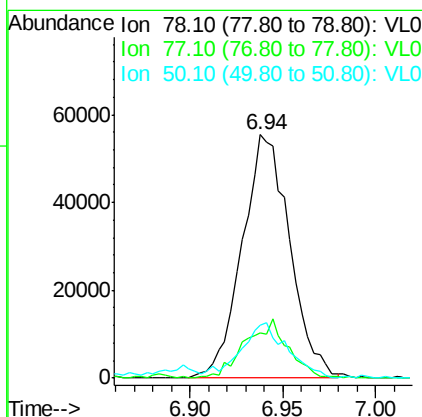
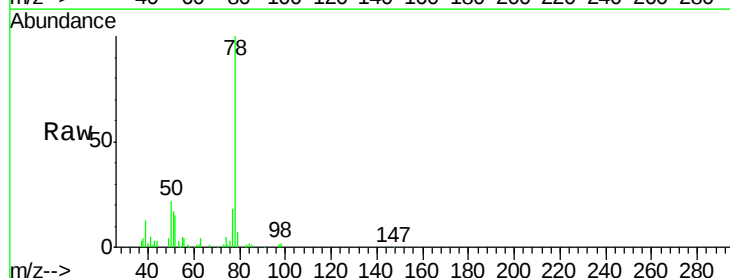
Manual Integrations
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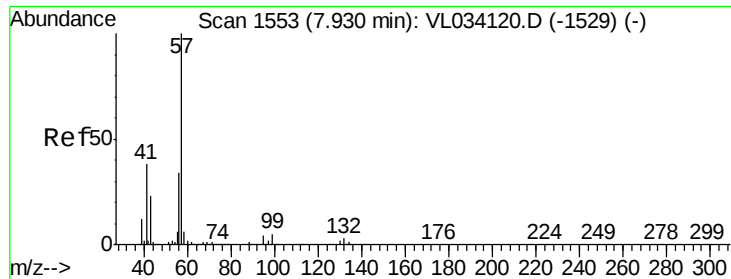
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#36
Benzene
Concen: 0.503 ppbv
RT: 6.94 min Scan# 1291
Delta R.T. -0.01 min
Lab File: VL034142.D
Acq: 10 Sep 2019 14:37

Tgt Ion: 78 Resp: 99524
Ion Ratio Lower Upper
78 100
77 18.5 20.3 30.5#
50 21.7 16.9 25.3





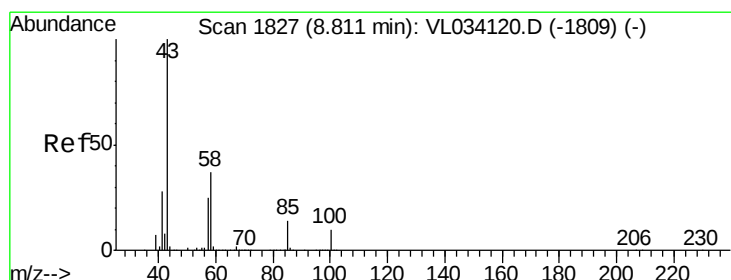
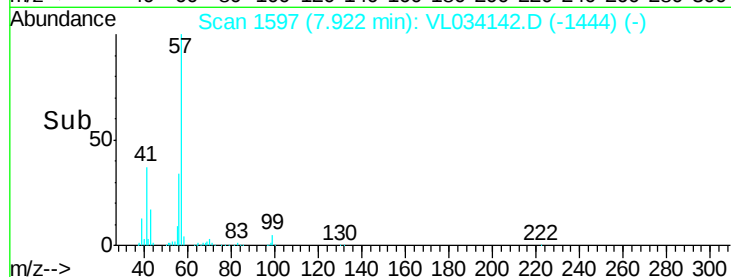
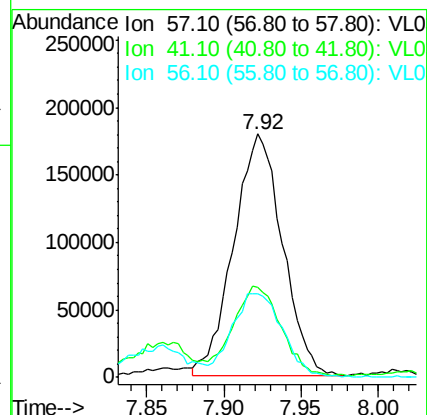
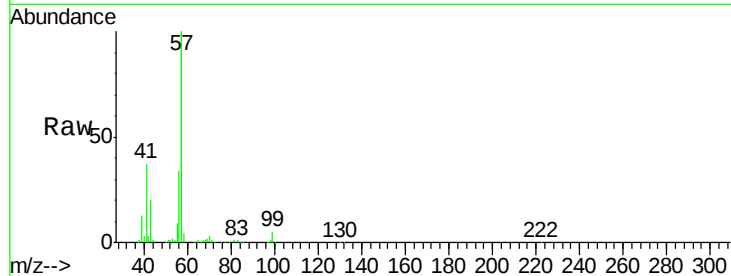
#44
 2,2,4-Trimethylpentane
 Concen: 1.081 ppbv
 RT: 7.92 min Scan# 1597
 Delta R.T. -0.01 min
 Lab File: VL034142.D
 Acq: 10 Sep 2019 14:37

Instrument :
 MSVOA_L
 ClientSampleId :
 SV5DL

Tot Ion:	57	Resp:	394206
Ion Ratio	Lower	Upper	
57	100		
41	37.2	28.4	42.6
56	38.0	26.3	39.5

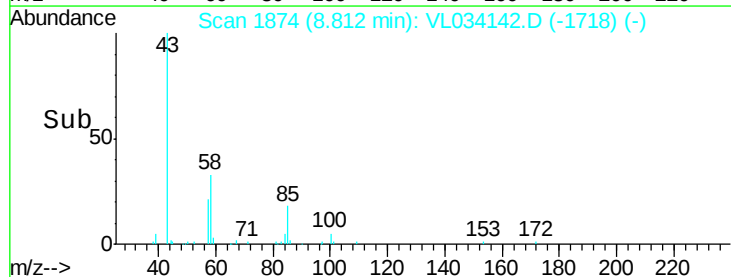
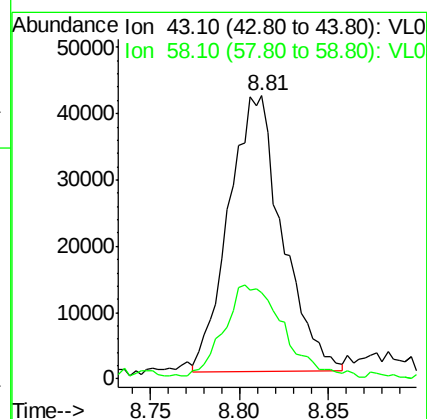
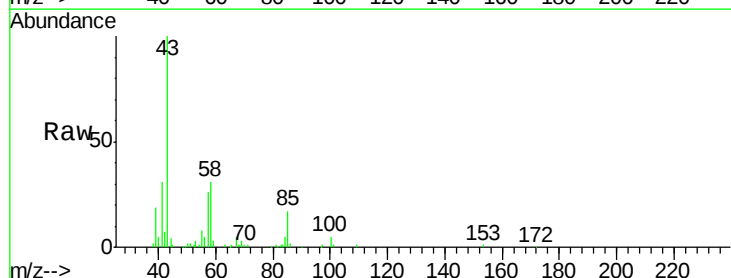
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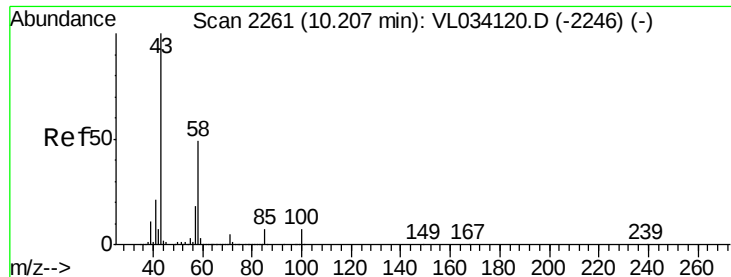
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 9/12/2019 5:16:47 AM



#50
 4-Methyl-2-Pentanone
 Concen: 0.344 ppbv
 RT: 8.81 min Scan# 1874
 Delta R.T. 0.00 min
 Lab File: VL034142.D
 Acq: 10 Sep 2019 14:37

Tgt Ion:	43	Resp:	87308
Ion Ratio	Lower	Upper	
43	100		
58	39.9	28.5	42.7





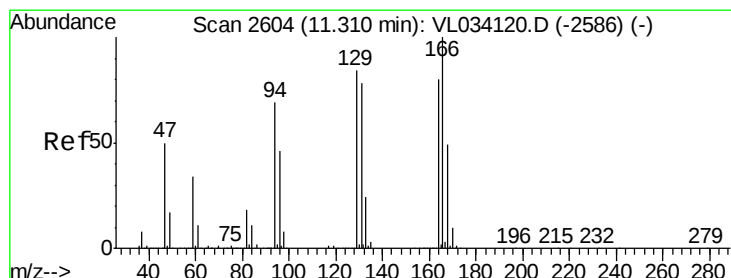
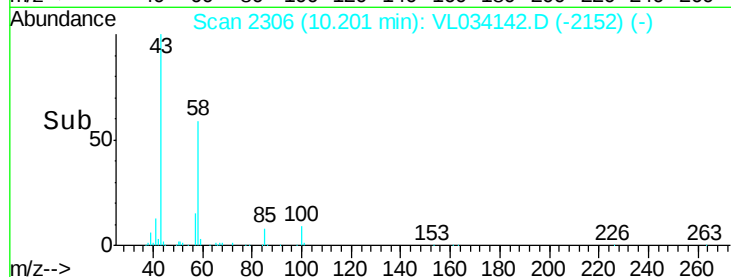
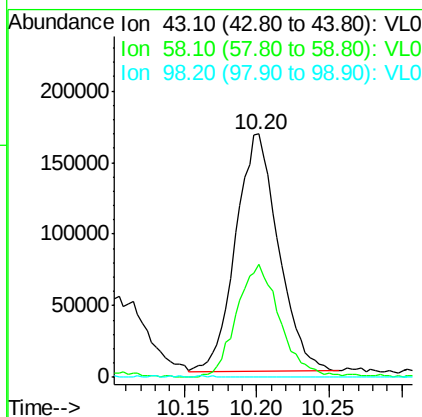
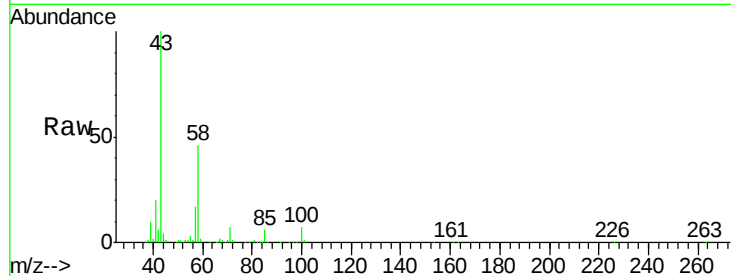
#51
2-Hexanone
Concen: 1.556 ppbv
RT: 10.20 min Scan# 2306
Delta R.T. -0.01 min
Lab File: VL034142.D
Acq: 10 Sep 2019 14:37

Instrument :
MSVOA_L
ClientSampleId :
SV5DL

Tot Ion	Ratio	Lower	Upper
43	100		
58	47.9	38.2	57.2
98	0.1	0.1	0.1#

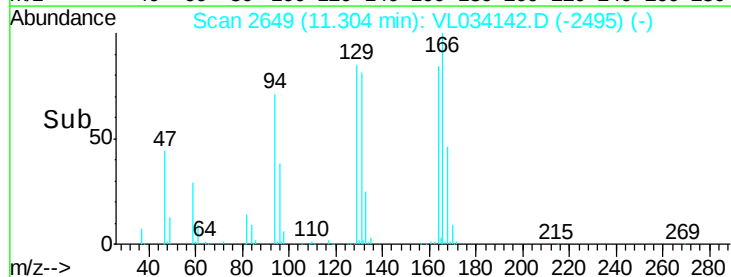
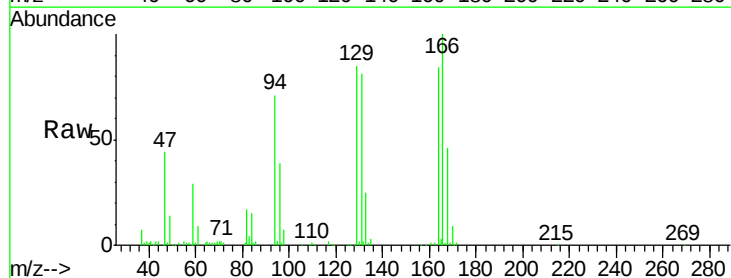
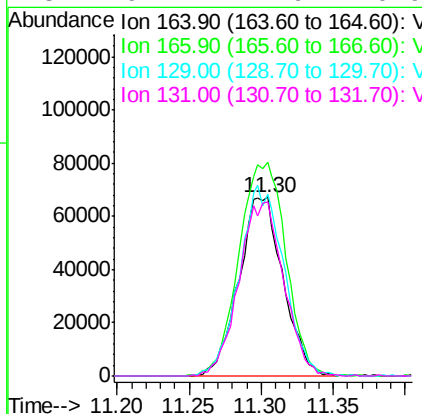
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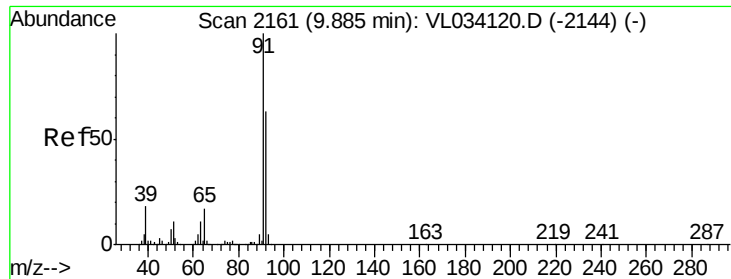
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#52
Tetrachloroethene
Concen: 2.059 ppbv m
RT: 11.30 min Scan# 2649
Delta R.T. -0.01 min
Lab File: VL034142.D
Acq: 10 Sep 2019 14:37

Tgt Ion	Ratio	Lower	Upper
164	100		
166	119.6	99.5	149.3
129	101.7	83.6	125.4
131	97.2	77.9	116.9





#53

Toluene

Concen: 1.624 ppbv

RT: 9.87 min Scan# 2204

Delta R.T. -0.01 min

Lab File: VL034142.D

Acq: 10 Sep 2019 14:37

Instrument :

MSVOA_L

ClientSampleId :

SV5DL

Tot Ion: 91 Resp: 355446

Ion Ratio Lower Upper

91 100

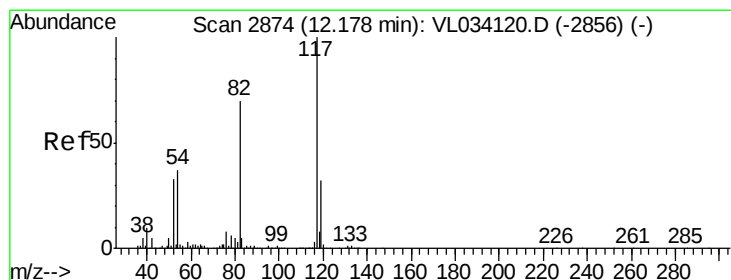
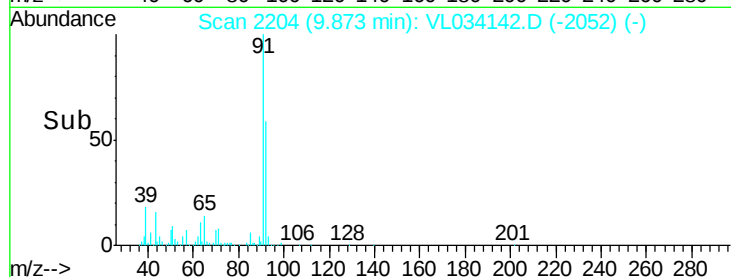
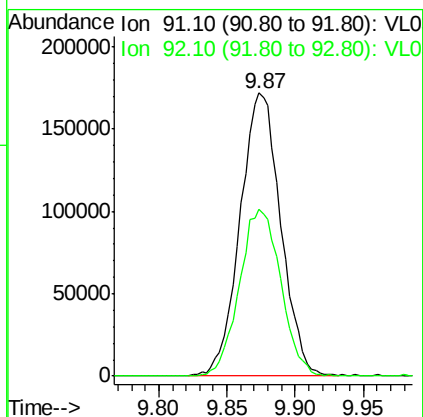
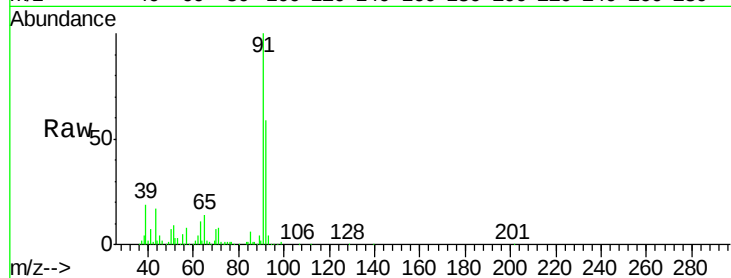
92 59.9 49.3 73.9

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.17 min Scan# 2917

Delta R.T. -0.01 min

Lab File: VL034142.D

Acq: 10 Sep 2019 14:37

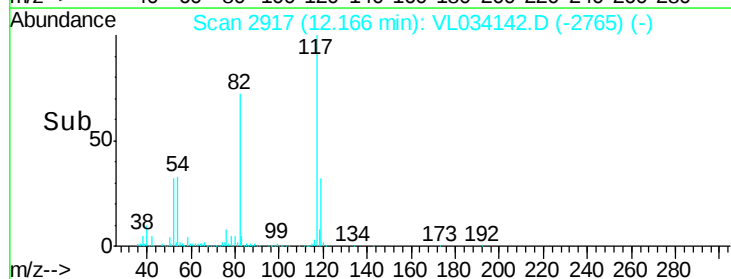
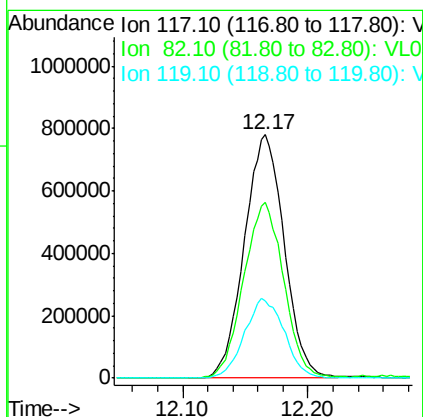
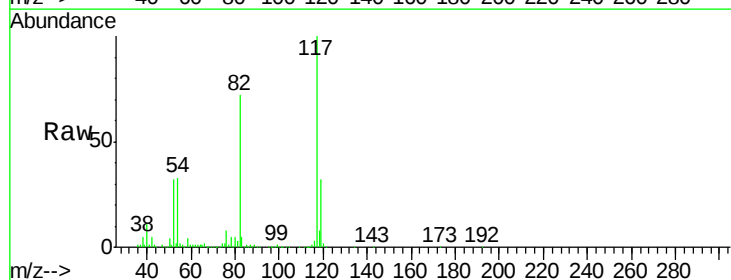
Tgt Ion: 117 Resp: 1726827

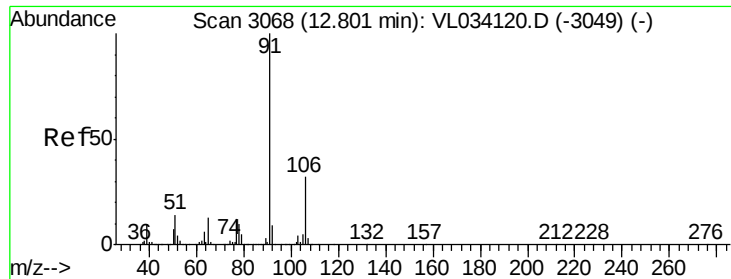
Ion Ratio Lower Upper

117 100

82 72.6 55.8 83.6

119 32.7 43.1 64.7#





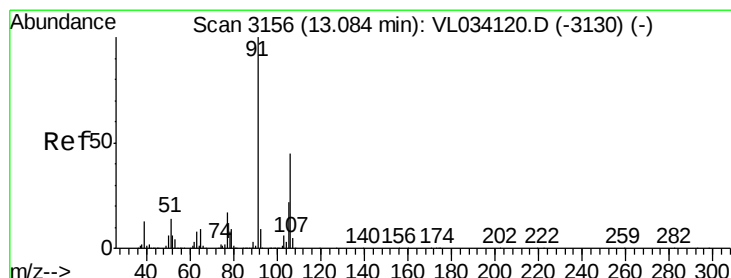
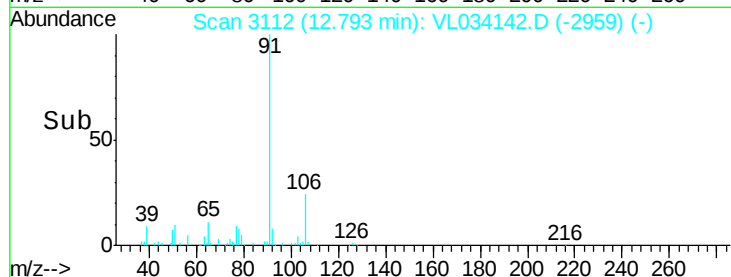
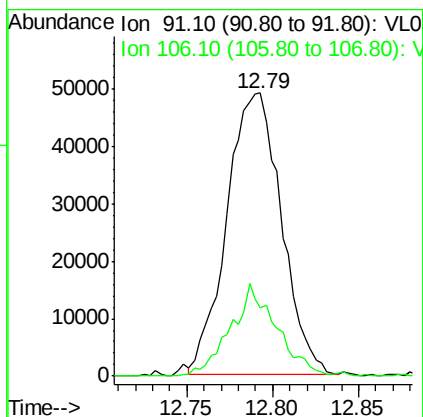
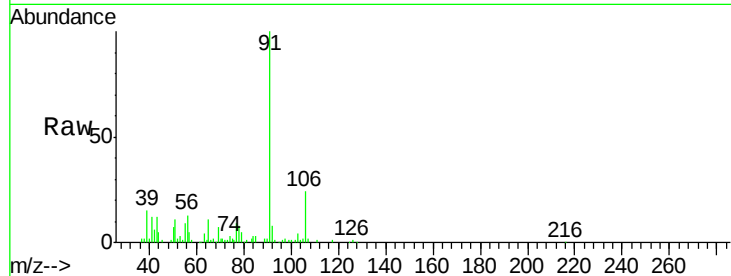
#58
Ethyl Benzene
Concen: 0.381 ppbv
RT: 12.79 min Scan# 3112
Delta R.T. -0.01 min
Lab File: VL034142.D
Acq: 10 Sep 2019 14:37

Instrument :
MSVOA_L
ClientSampled :
SV5DL

Tot Ion: 91 Resp: 107842
Ion Ratio Lower Upper
91 100
106 23.5 25.3 37.9#

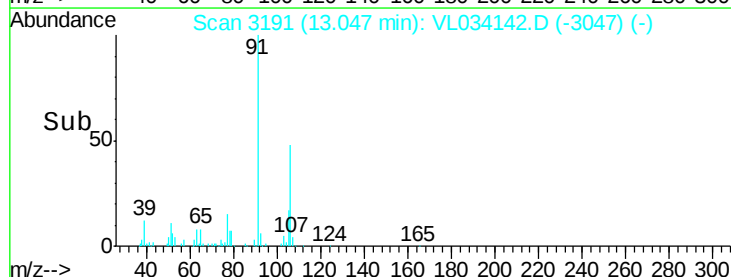
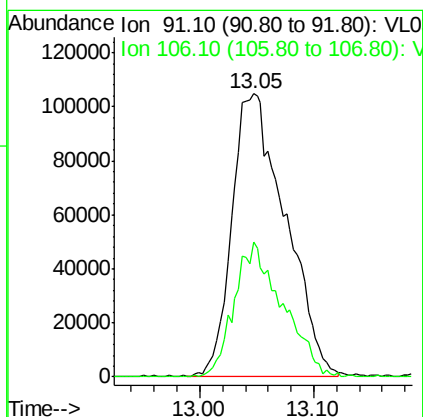
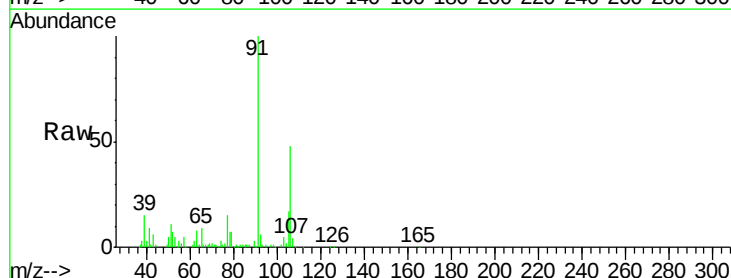
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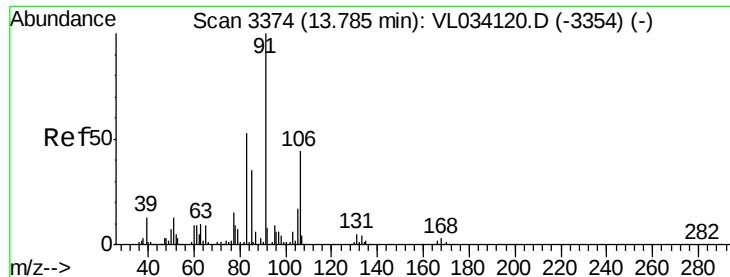
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#59
m/p-Xylene
Concen: 1.476 ppbv m
RT: 13.05 min Scan# 3191
Delta R.T. -0.04 min
Lab File: VL034142.D
Acq: 10 Sep 2019 14:37

Tgt Ion: 91 Resp: 340983
Ion Ratio Lower Upper
91 100
106 43.0 35.4 53.2





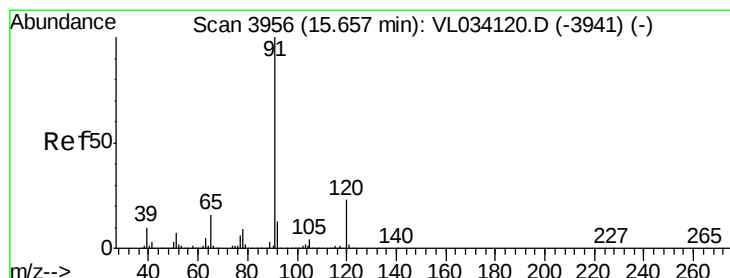
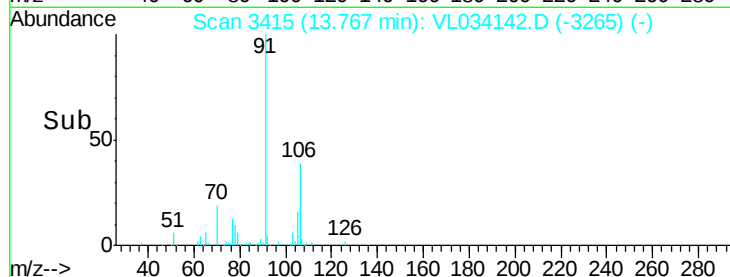
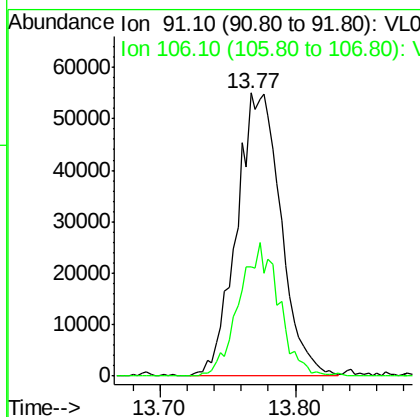
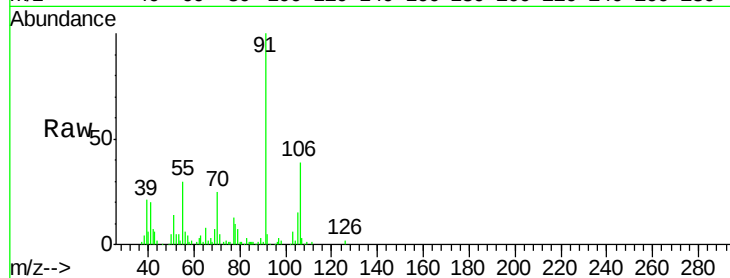
#60
o-Xylene
Concen: 0.545 ppbv m
RT: 13.77 min Scan# 3415
Delta R.T. -0.02 min
Lab File: VL034142.D
Acq: 10 Sep 2019 14:37

Instrument :
MSVOA_L
ClientSampleId :
SV5DL

Tot Ion	Ratio	Lower	Upper
91	100		
106	42.2	21.4	64.3

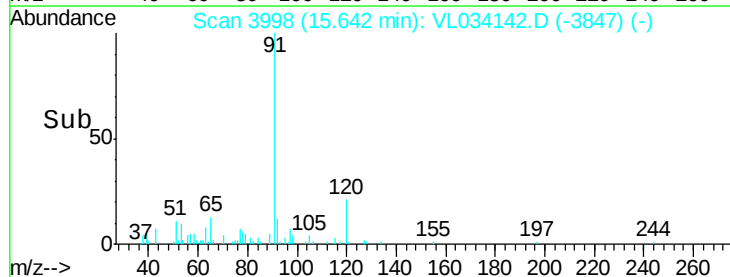
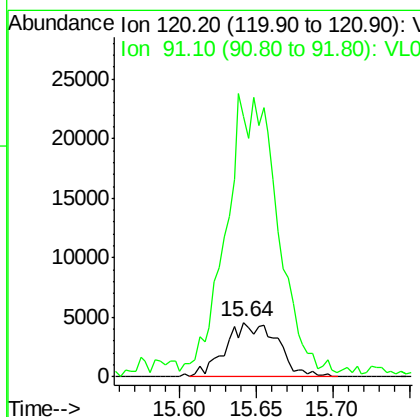
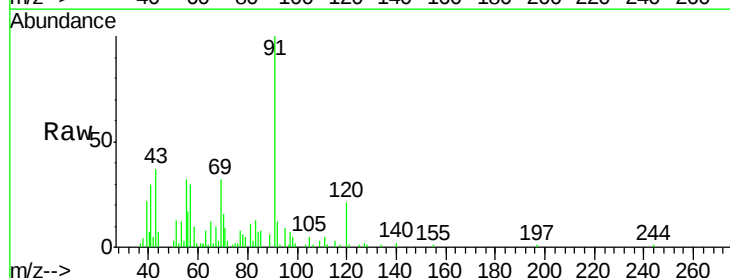
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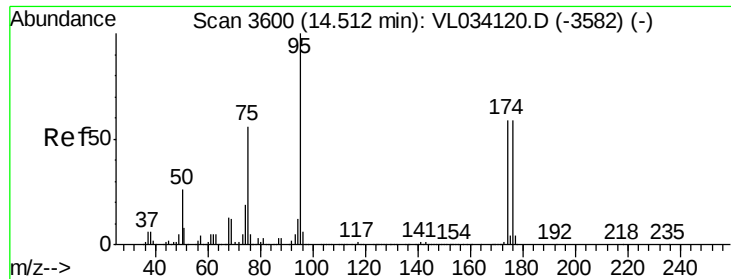
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#64
n-propylbenzene
Concen: 0.144 ppbv m
RT: 15.64 min Scan# 3998
Delta R.T. -0.01 min
Lab File: VL034142.D
Acq: 10 Sep 2019 14:37

Tgt Ion	Ratio	Lower	Upper
120	100		
91	554.4	376.8	565.2





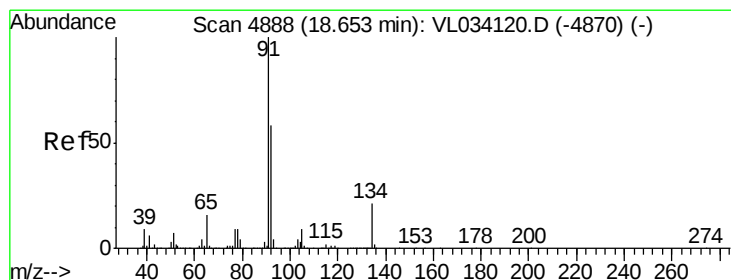
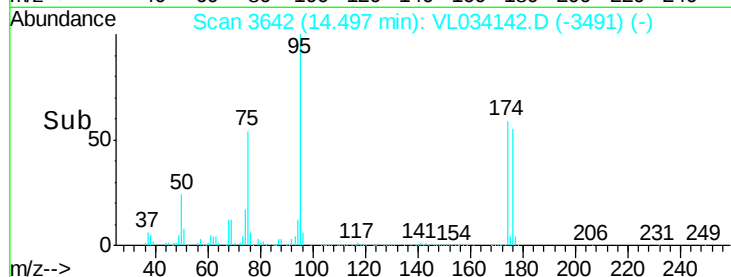
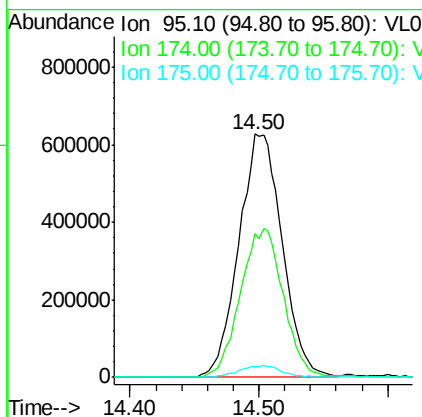
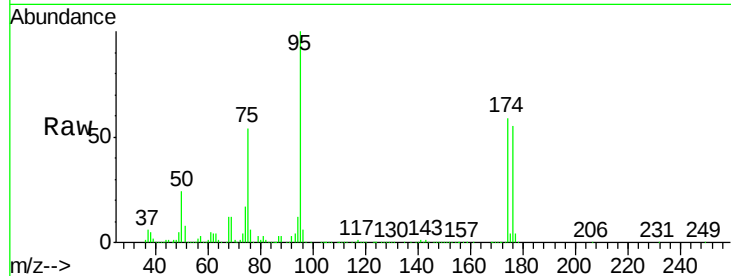
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.428 ppbv
 RT: 14.50 min Scan# 3642
 Delta R.T. -0.01 min
 Lab File: VL034142.D
 Acq: 10 Sep 2019 14:37

Instrument :
 MSVOA_L
 ClientSampleId :
 SV5DL

Tot Ion: 95 Resp: 1472147
 Ion Ratio Lower Upper
 95 100
 174 60.8 48.1 72.1
 175 4.7 3.5 5.3

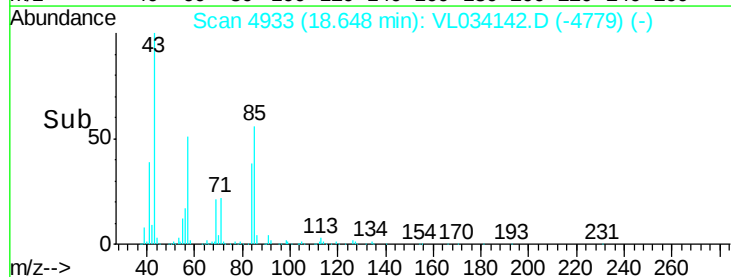
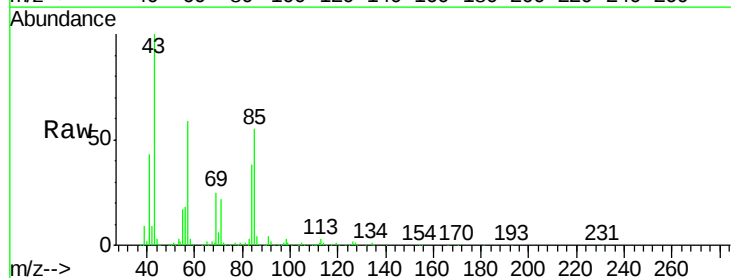
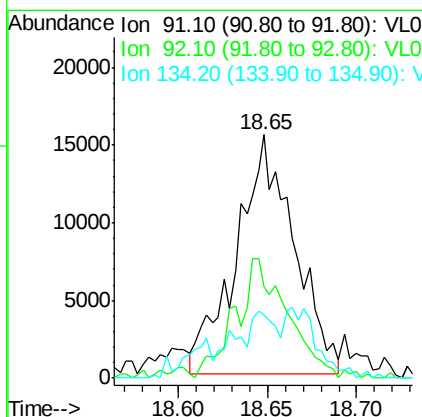
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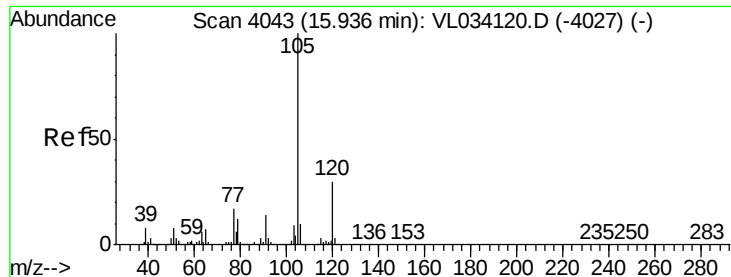
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#70
 n-Butylbenzene
 Concen: 0.104 ppbv m
 RT: 18.65 min Scan# 4933
 Delta R.T. -0.01 min
 Lab File: VL034142.D
 Acq: 10 Sep 2019 14:37

Tgt Ion: 91 Resp: 35113
 Ion Ratio Lower Upper
 91 100
 92 0.0 45.3 67.9#
 134 0.0 17.4 26.0#





#72

4-Ethyltoluene

Concen: 0.228 ppbv

RT: 15.92 min Scan# 4085

Delta R.T. -0.01 min

Lab File: VL034142.D

Acq: 10 Sep 2019 14:37

Instrument :

MSVOA_L

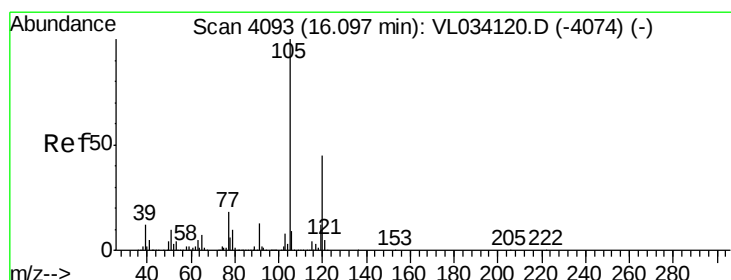
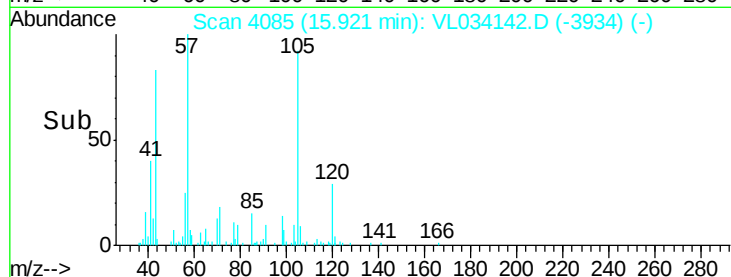
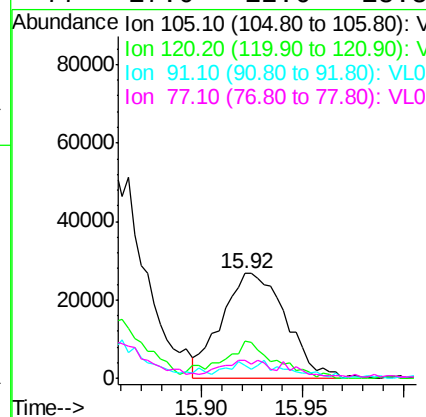
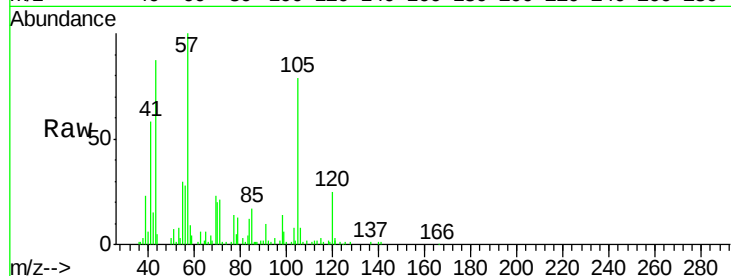
ClientSampleId :

SV5DL

Tot Ion:	105	Resp:	59230
Ion Ratio	Lower	Upper	
105	100		
120	30.4	23.8	35.6
91	12.5	11.4	17.0
77	17.0	12.6	18.8

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#73

1,3,5-Trimethylbenzene

Concen: 0.172 ppbv m

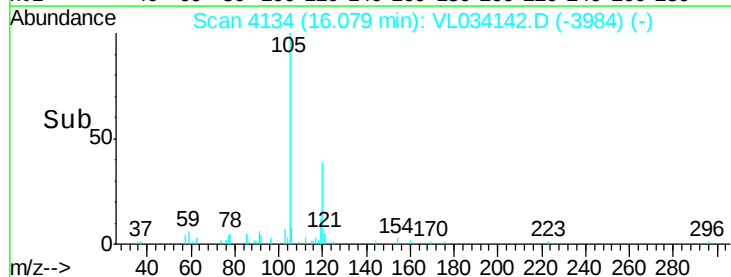
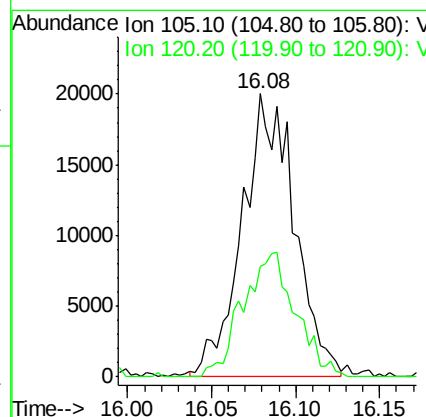
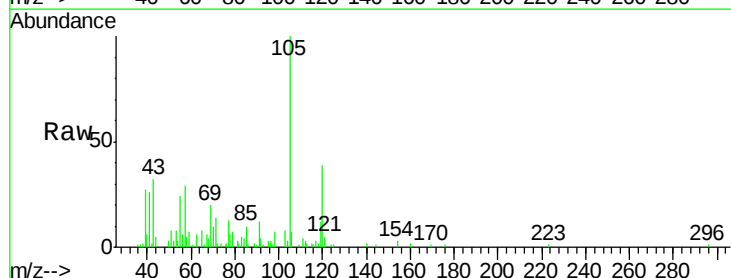
RT: 16.08 min Scan# 4134

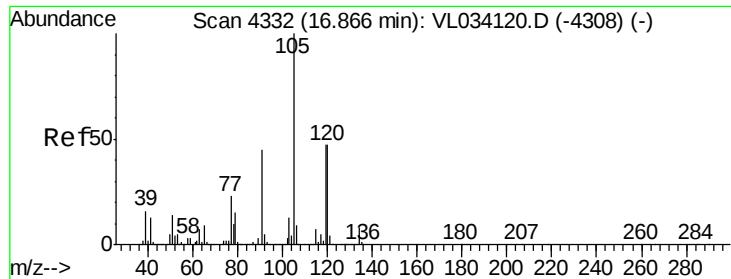
Delta R.T. -0.02 min

Lab File: VL034142.D

Acq: 10 Sep 2019 14:37

Tgt Ion:	105	Resp:	43318
Ion Ratio	Lower	Upper	
105	100		
120	39.0	35.8	53.8





#74
 1,2,4-Trimethylbenzene
 Concen: 0.647 ppbv m
 RT: 16.85 min Scan# 4375
 Delta R.T. -0.01 min
 Lab File: VL034142.D
 Acq: 10 Sep 2019 14:37

Instrument :
 MSVOA_L
 ClientSampleId :
 SV5DL

Tot Ion	Ratio	Resp Lower	Resp Upper
105	100		
120	37.4	37.7	56.5#
91	12.8	36.2	54.2#
77	16.6	18.5	27.7#

Manual Integrations
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MMDadoda
 9/12/2019 5:16:47 AM

