

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091019\
 Data File : VL034148.D
 Acq On : 10 Sep 2019 18:32
 Operator : SY/AP
 Sample : K4775-03DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3DL

Manual Integrations
 APPROVED

MMDadoda
 9/12/2019 5:16:59 AM

Quant Time: Sep 11 21:39:30 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	5.71	49	704663	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.23	114	1430397	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	1409936	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.50	95	1184398	10.28	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
4) Chloromethane	3.13	50	6398	0.130	ppbv #	87
9) Propene	3.00	41	434141	9.878	ppbv	92
10) Heptane	8.18	43	192247	1.686	ppbv	98
13) Ethanol	3.60	45	105444	12.247	ppbv	97
15) Acetone	3.85	43	6494574	76.473	ppbv #	69
17) tert-Butyl alcohol	4.30	59	191582	3.107	ppbv	97
19) Isopropyl Alcohol	3.98	45	284744	4.967	ppbv #	97
26) Hexane	5.72	57	234923	2.834	ppbv #	39
27) Carbon Disulfide	4.56	76	90696	1.212	ppbv #	92
29) Chloroform	5.79	83	17376m	0.155	ppbv	
30) Cyclohexane	7.18	84	57712	0.963	ppbv	90
32) 1,1,1-Trichloroethane	6.56	97	459161	4.347	ppbv	98
34) 2-Butanone	5.27	43	1184568	8.614	ppbv	99
36) Benzene	6.94	78	107475	0.657	ppbv	99
38) Trichloroethene	7.90	130	13467	0.221	ppbv #	84
44) 2,2,4-Trimethylpentane	7.93	57	47196m	0.157	ppbv	
50) 4-Methyl-2-Pentanone	8.81	43	67942	0.324	ppbv	97
51) 2-Hexanone	10.20	43	371221	2.048	ppbv #	94
52) Tetrachloroethene	11.30	164	1334613	23.149	ppbv	98
53) Toluene	9.88	91	362265	2.003	ppbv	97
58) Ethyl Benzene	12.80	91	127853m	0.553	ppbv	
59) m/p-Xylene	13.05	91	382191	2.026	ppbv	100
60) o-Xylene	13.78	91	159589	0.850	ppbv	100
64) n-propylbenzene	15.64	120	11102m	0.181	ppbv	
72) 4-Ethyltoluene	15.91	105	63495m	0.300	ppbv	
73) 1,3,5-Trimethylbenzene	16.08	105	54029m	0.262	ppbv	
74) 1,2,4-Trimethylbenzene	16.85	105	183836	0.867	ppbv #	71

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

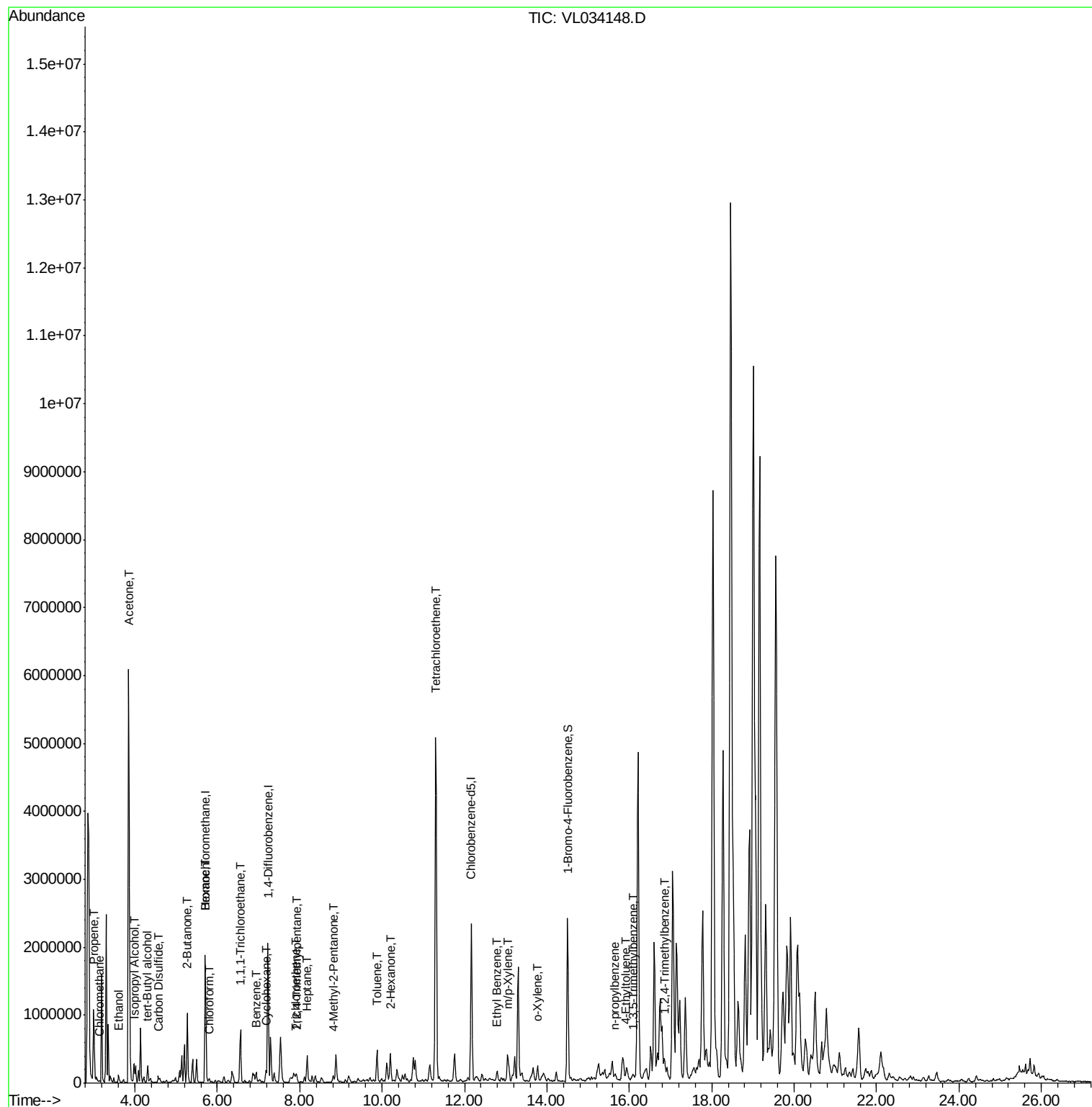
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091019\
Data File : VL034148.D
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Operator : SY/AP
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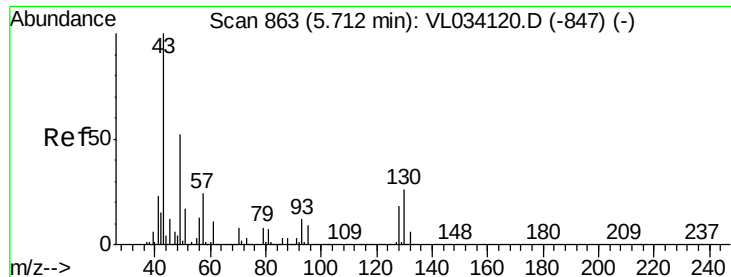
Instrument :
MSVOA_L
ClientSampleId :
SV3DL

Manual Integrations
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9/12/2019 5:16:59 AM

Quant Time: Sep 11 21:39:30 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





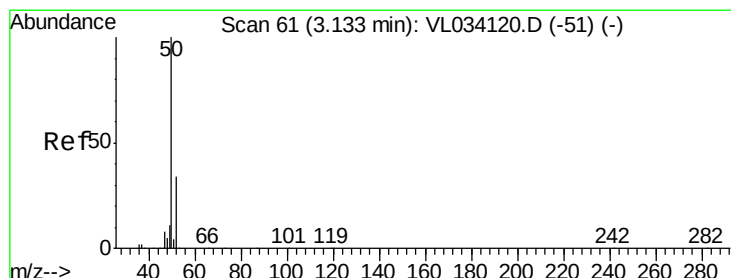
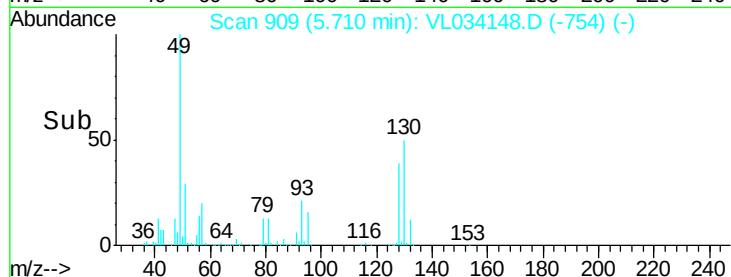
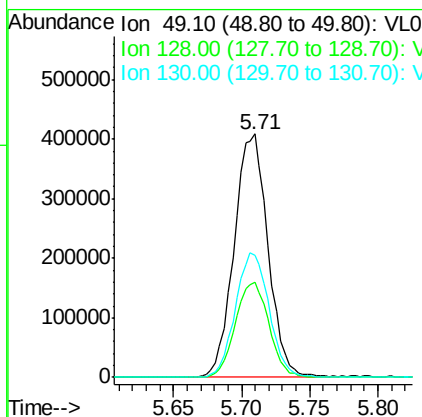
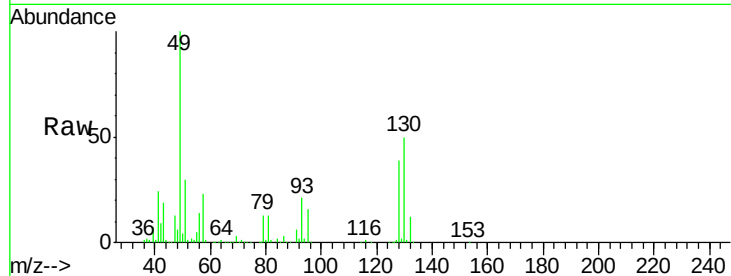
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.71 min Scan# 909
Delta R.T. -0.00 min
Lab File: VL034148.D
Acq: 10 Sep 2019 18:32

Instrument :
MSVOA_L
ClientSampled :
SV3DL

Tot Ion: 49 Resp: 704663
Ion Ratio Lower Upper
49 100
128 39.2 18.4 55.0
130 51.4 23.5 70.6

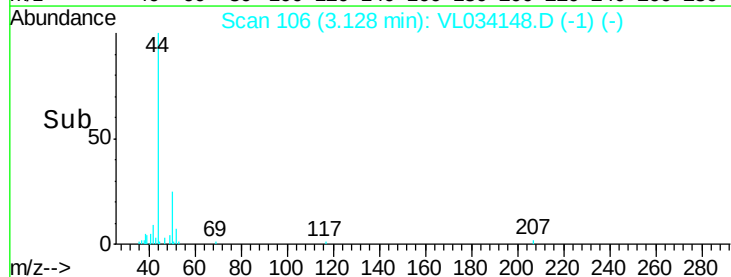
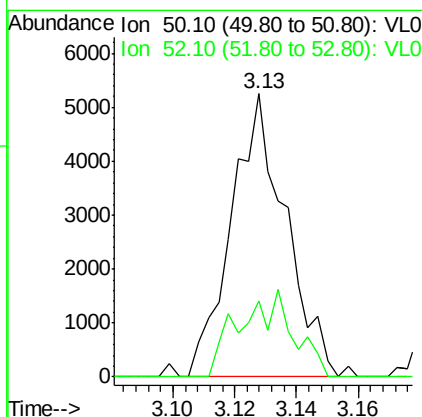
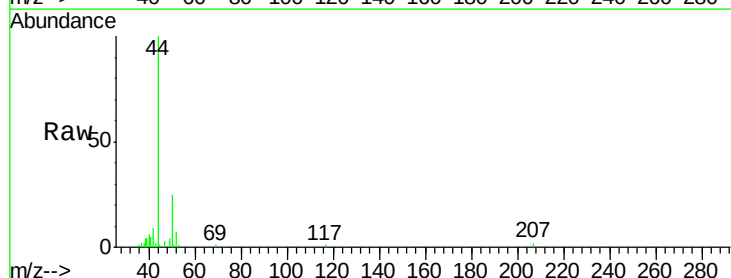
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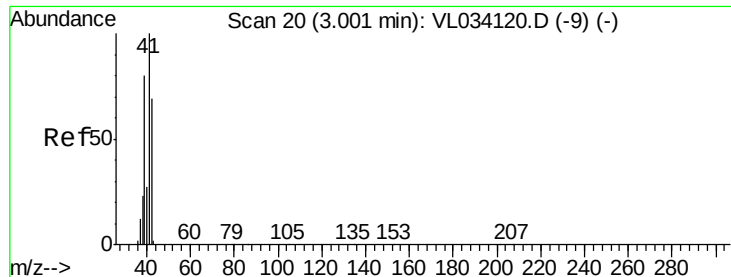
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#4
Chloromethane
Concen: 0.130 ppbv
RT: 3.13 min Scan# 106
Delta R.T. -0.01 min
Lab File: VL034148.D
Acq: 10 Sep 2019 18:32

Tgt Ion: 50 Resp: 6398
Ion Ratio Lower Upper
50 100
52 27.0 27.4 41.2#





#9

Propene

Concen: 9.878 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.01 min

Lab File: VL034148.D

Acq: 10 Sep 2019 18:32

Instrument :

MSVOA_L

ClientSampleId :

SV3DL

Tot Ion: 41 Resp: 434141

Ion Ratio Lower Upper

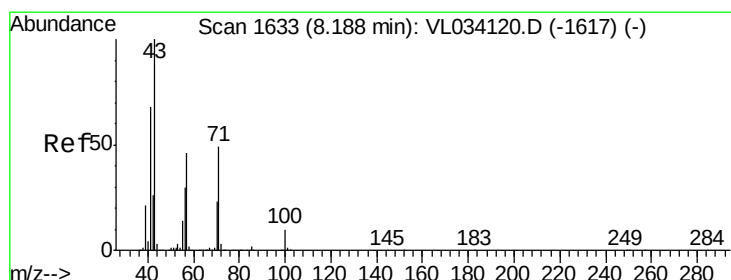
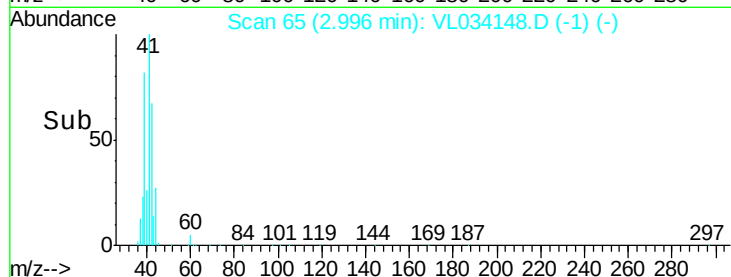
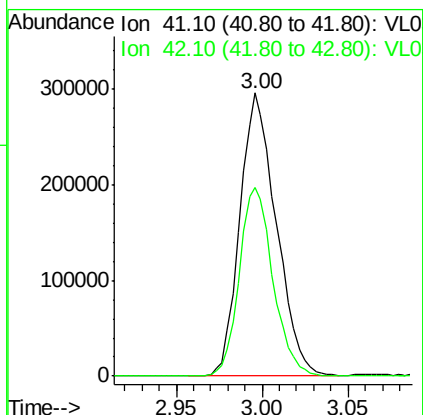
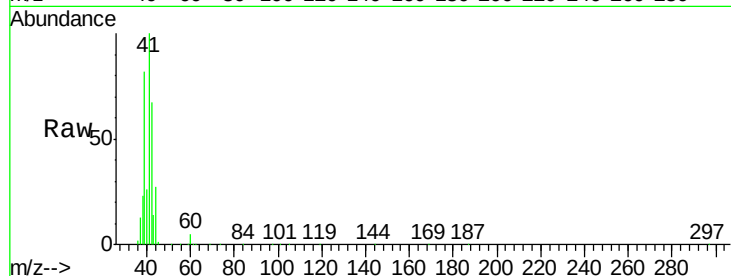
41 100

42 62.0 54.6 81.8

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#10

Heptane

Concen: 1.686 ppbv

RT: 8.18 min Scan# 1677

Delta R.T. -0.01 min

Lab File: VL034148.D

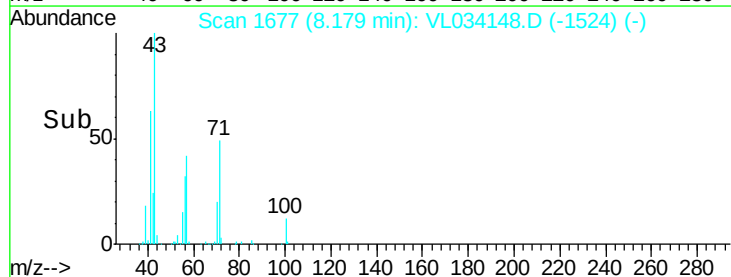
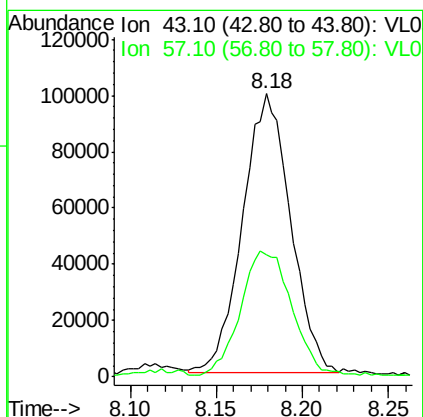
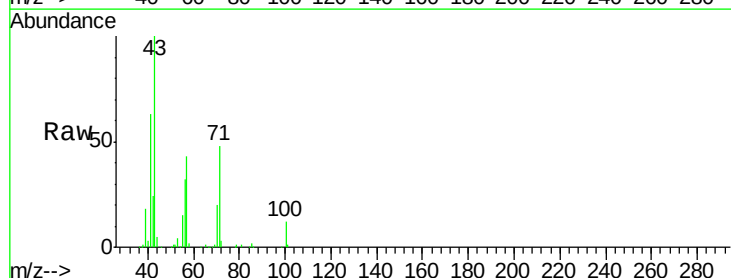
Acq: 10 Sep 2019 18:32

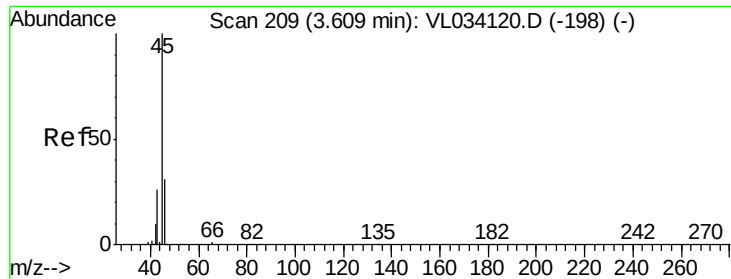
Tgt Ion: 43 Resp: 192247

Ion Ratio Lower Upper

43 100

57 49.0 38.1 57.1





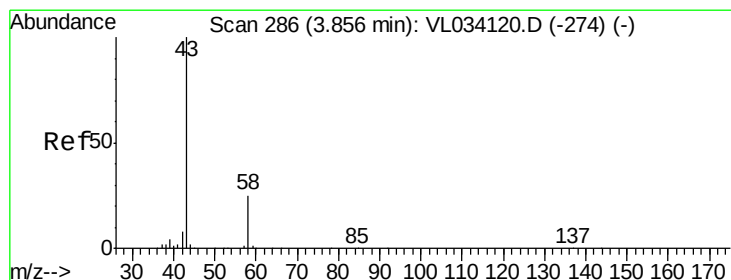
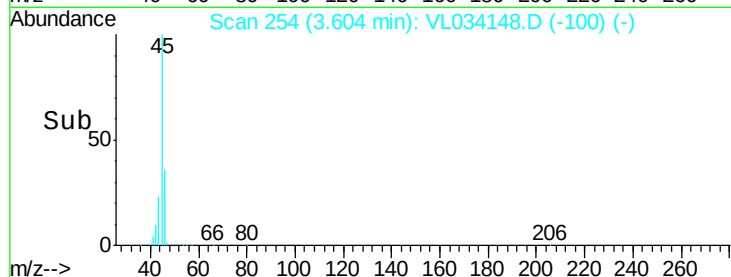
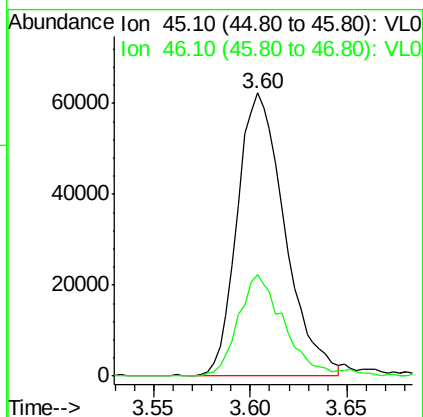
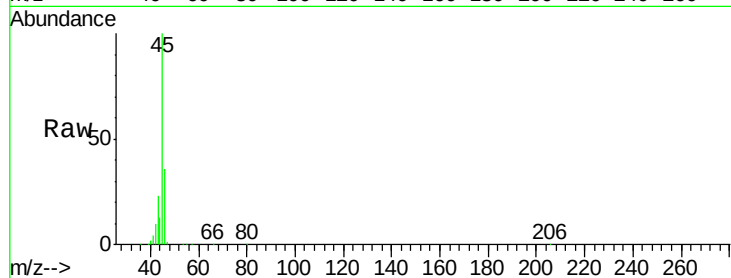
#13
Ethanol
Concen: 12.247 ppbv
RT: 3.60 min Scan# 254
Delta R.T. -0.01 min
Lab File: VL034148.D
Acq: 10 Sep 2019 18:32

Instrument :
MSVOA_L
ClientSampled :
SV3DL

Tot Ion: 45 Resp: 105444
Ion Ratio Lower Upper
45 100
46 35.8 15.0 60.0

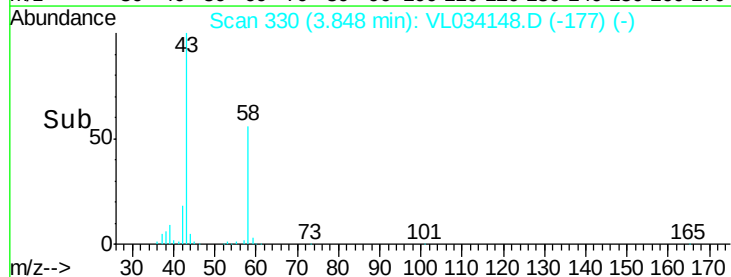
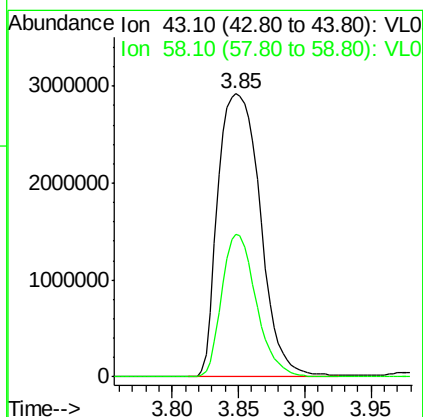
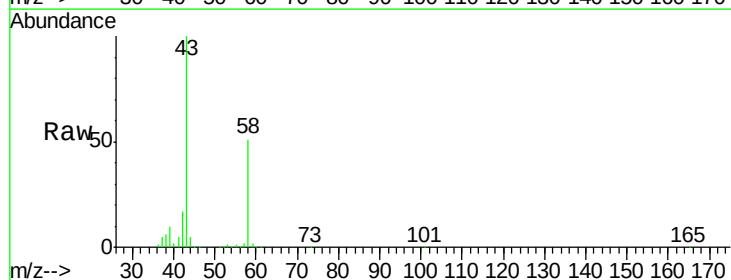
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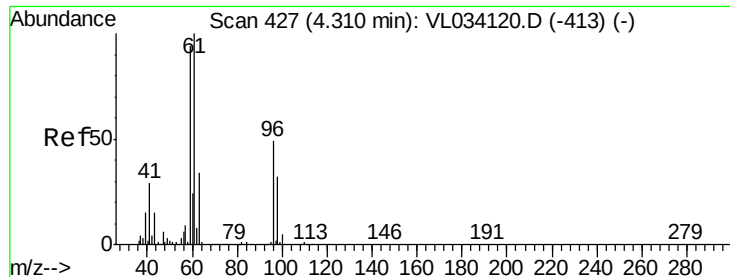
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#15
Acetone
Concen: 76.473 ppbv
RT: 3.85 min Scan# 330
Delta R.T. -0.01 min
Lab File: VL034148.D
Acq: 10 Sep 2019 18:32

Tgt Ion: 43 Resp: 6494574
Ion Ratio Lower Upper
43 100
58 41.4 20.6 30.8#





#17

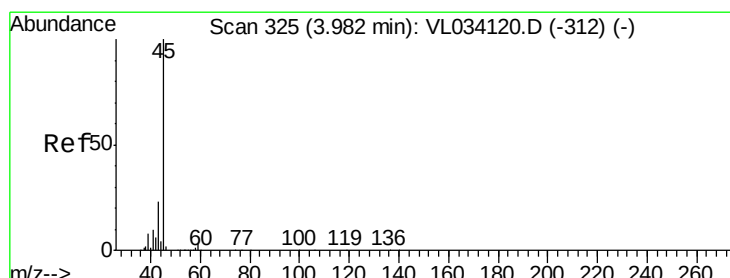
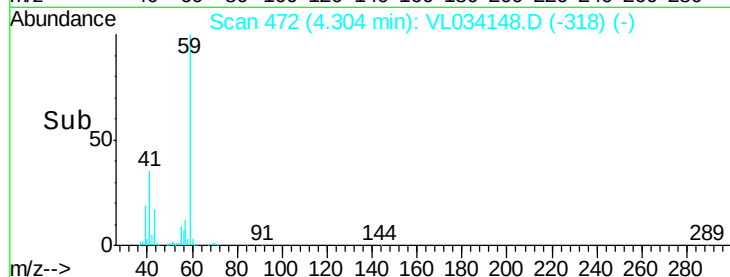
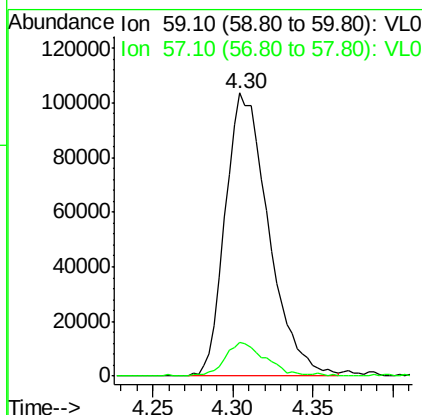
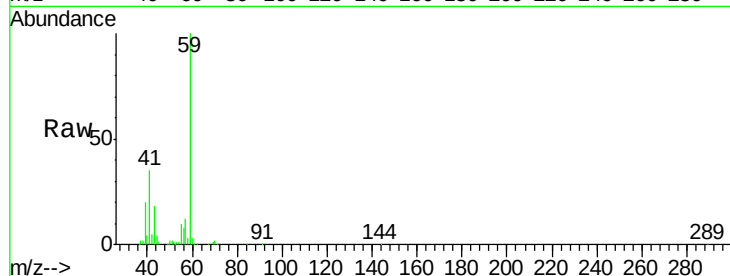
tert-Butyl alcohol
Concen: 3.107 ppbv
RT: 4.30 min Scan# 472
Delta R.T. -0.01 min
Lab File: VL034148.D
Acq: 10 Sep 2019 18:32

Instrument :
MSVOA_L
ClientSampleId :
SV3DL

Tot Ion	59	Resp	191582
Ion	Ratio	Lower	Upper
59	100		
57	11.8	8.6	12.8

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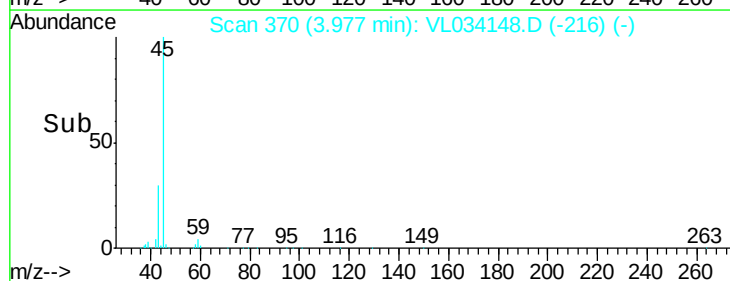
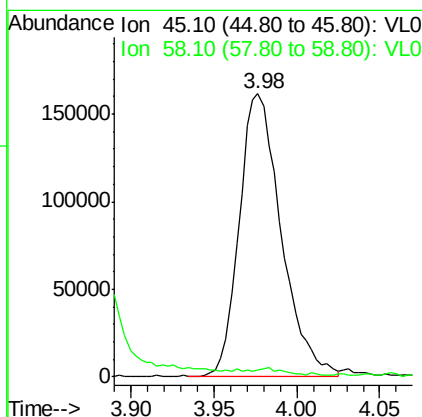
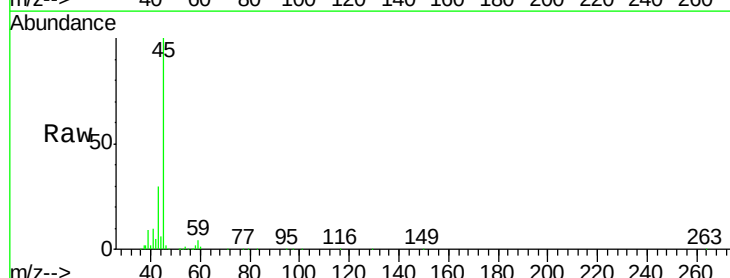
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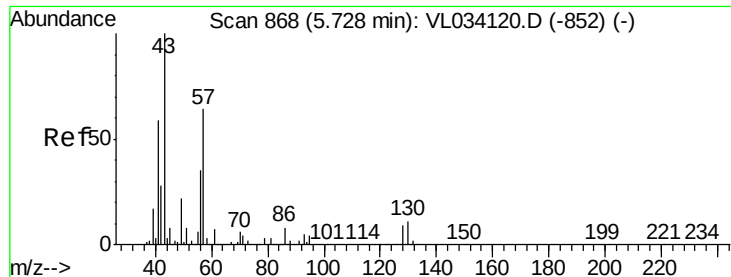


#19

Isopropyl Alcohol
Concen: 4.967 ppbv
RT: 3.98 min Scan# 370
Delta R.T. -0.01 min
Lab File: VL034148.D
Acq: 10 Sep 2019 18:32

Tgt Ion	45	Resp	284744
Ion	Ratio	Lower	Upper
45	100		
58	0.0	1.0	1.6#





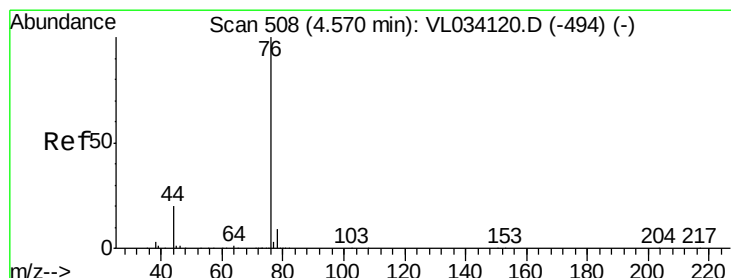
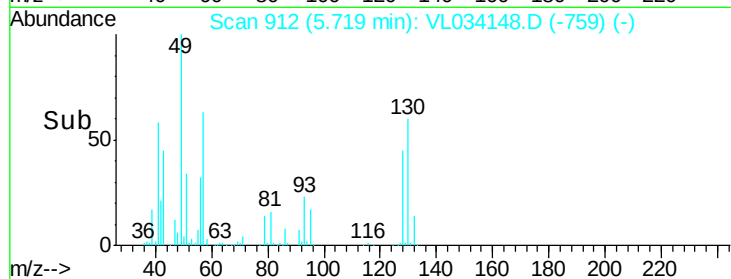
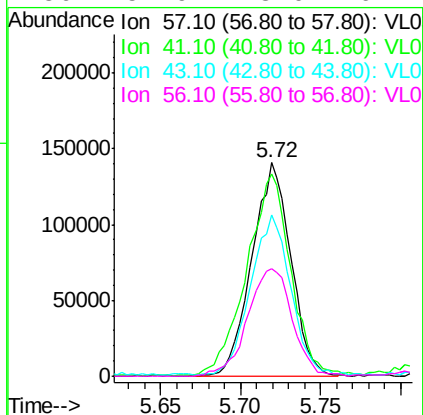
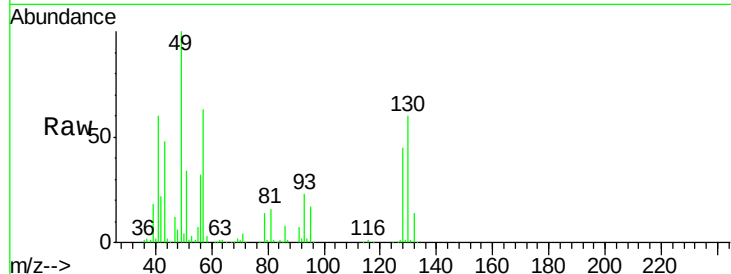
#26
Hexane
Concen: 2.834 ppbv
RT: 5.72 min Scan# 912
Delta R.T. -0.01 min
Lab File: VL034148.D
Acq: 10 Sep 2019 18:32

Instrument :
MSVOA_L
ClientSampled :
SV3DL

Tot Ion	Ratio	Lower	Upper
57	100		
41	106.8	76.6	115.0
43	77.8	189.2	283.8#
56	57.9	43.0	64.4

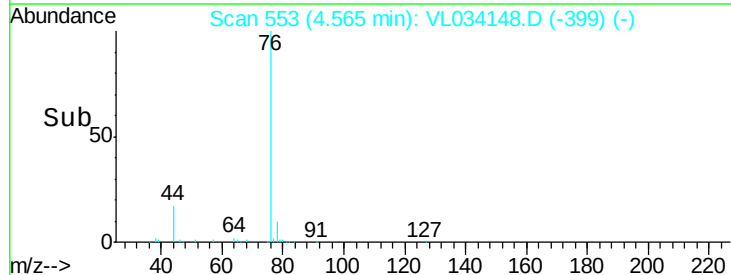
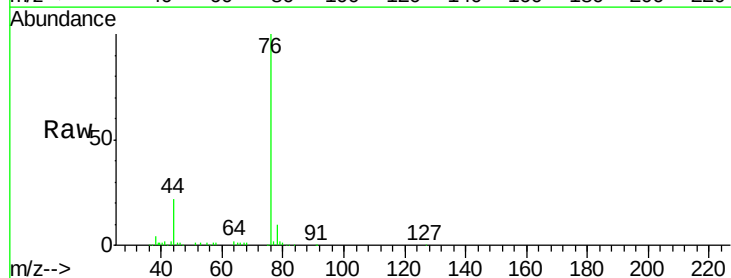
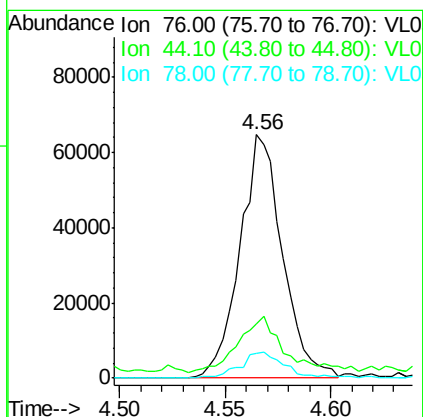
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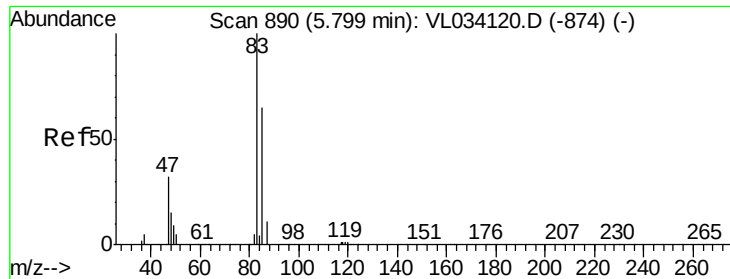
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#27
Carbon Disulfide
Concen: 1.212 ppbv
RT: 4.56 min Scan# 553
Delta R.T. -0.01 min
Lab File: VL034148.D
Acq: 10 Sep 2019 18:32

Tgt Ion	Ratio	Lower	Upper
76	100		
44	26.0	17.6	26.4
78	11.6	7.3	10.9#





#29

Chloroform

Concen: 0.155 ppbv m

RT: 5.79 min Scan# 935

Delta R.T. -0.01 min

Lab File: VL034148.D

Acq: 10 Sep 2019 18:32

Instrument :

MSVOA_L

ClientSampled :

SV3DL

Tot Ion: 83 Resp: 17376

Ion Ratio Lower Upper

83 100

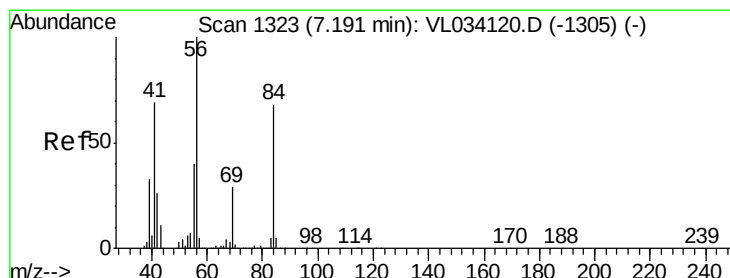
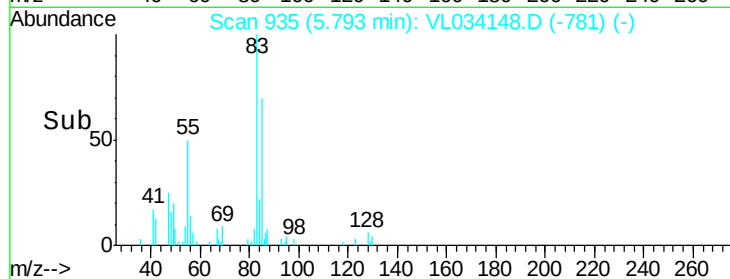
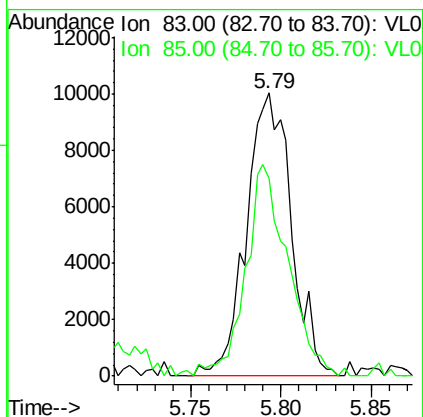
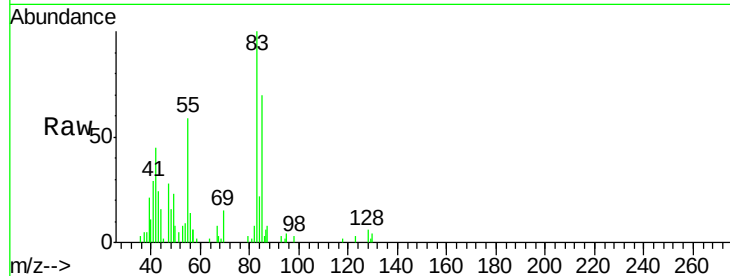
85 69.7 51.8 77.6

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9/12/2019 5:16:59 AM



#30

Cyclohexane

Concen: 0.963 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. -0.01 min

Lab File: VL034148.D

Acq: 10 Sep 2019 18:32

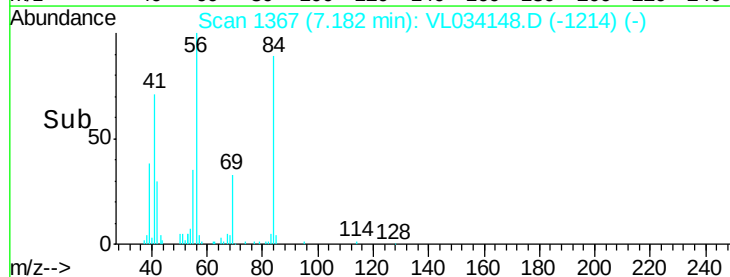
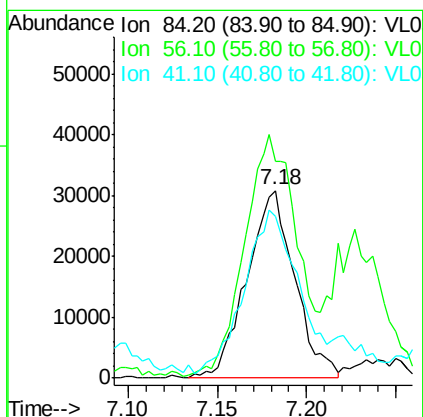
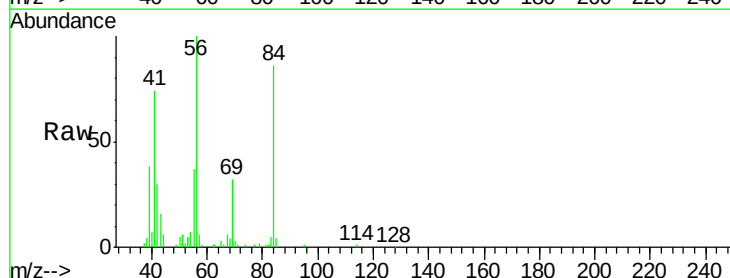
Tgt Ion: 84 Resp: 57712

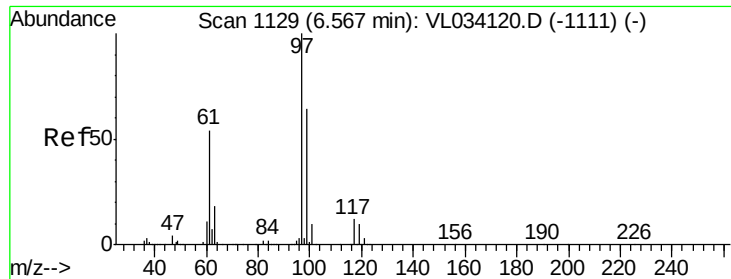
Ion Ratio Lower Upper

84 100

56 143.4 122.6 183.8

41 111.3 79.1 118.7





#32

1,1,1-Trichloroethane

Concen: 4.347 ppbv

RT: 6.56 min Scan# 1174

Delta R.T. -0.01 min

Lab File: VL034148.D

Acq: 10 Sep 2019 18:32

Instrument :

MSVOA_L

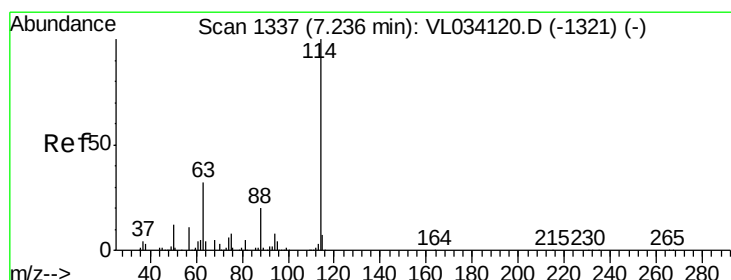
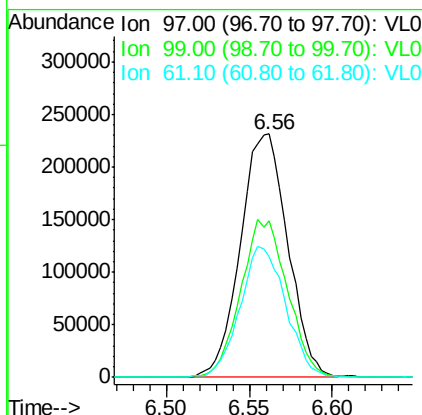
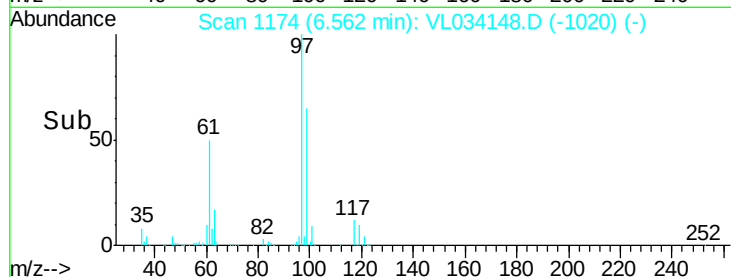
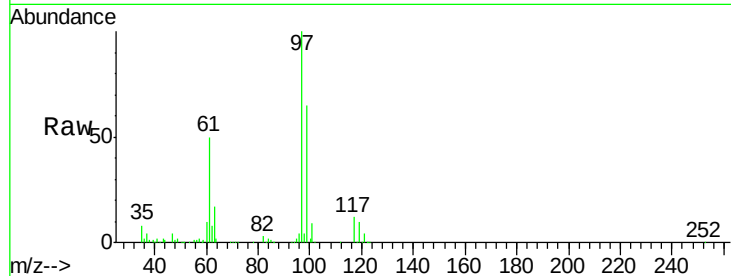
ClientSampleId :

SV3DL

Tot Ion:	97	Resp:	459161
Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.7	77.5
61	52.1	44.0	66.0

Manual Integrations
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9/12/2019 5:16:59 AM



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

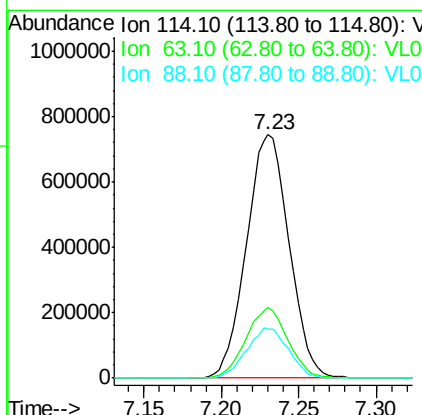
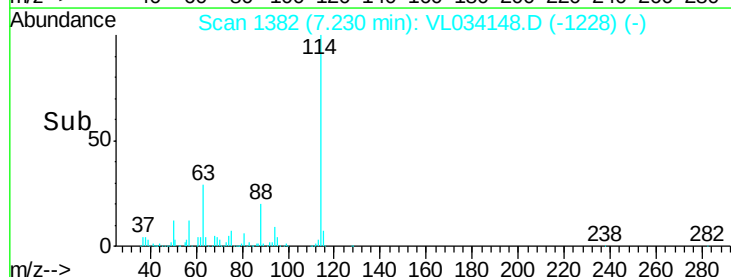
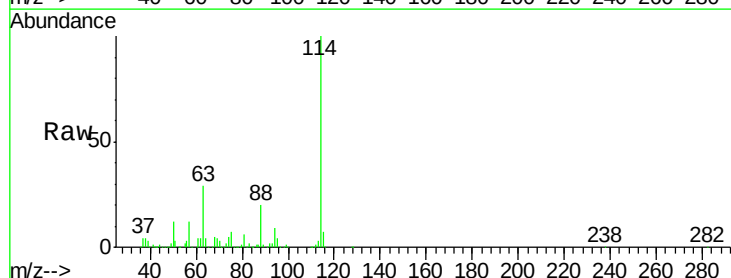
RT: 7.23 min Scan# 1382

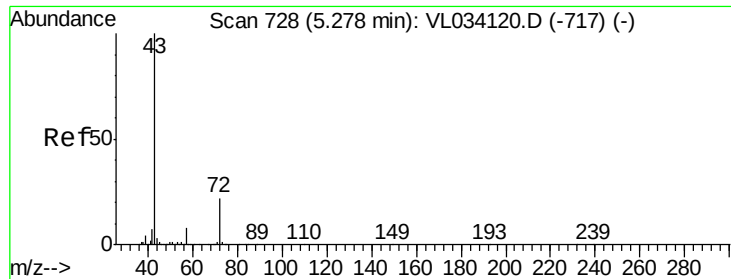
Delta R.T. -0.01 min

Lab File: VL034148.D

Acq: 10 Sep 2019 18:32

Tgt Ion:	114	Resp:	1430397
Ion	Ratio	Lower	Upper
114	100		
63	28.3	25.5	38.3
88	20.2	16.8	25.2





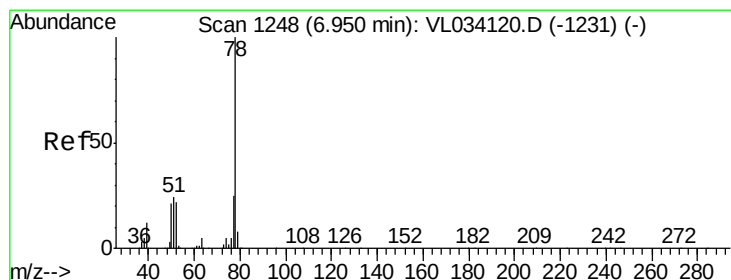
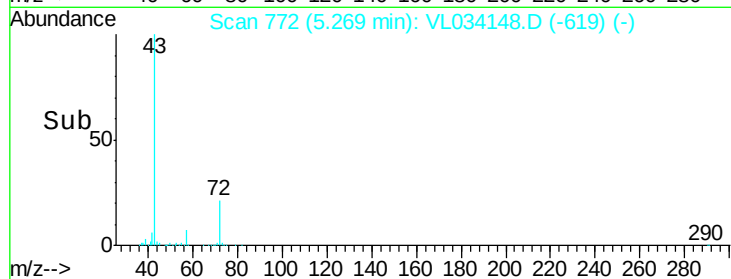
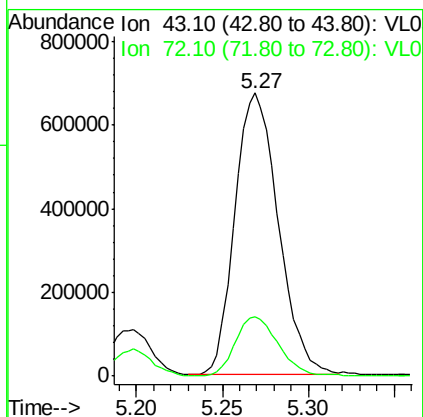
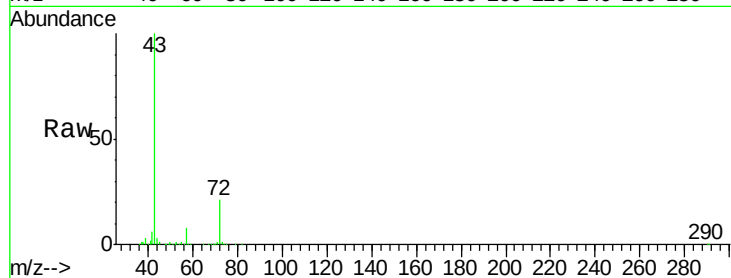
#34
2-Butanone
Concen: 8.614 ppbv
RT: 5.27 min Scan# 772
Delta R.T. -0.01 min
Lab File: VL034148.D
Acq: 10 Sep 2019 18:32

Instrument :
MSVOA_L
ClientSampleId :
SV3DL

Tot Ion: 43 Resp: 1184568
Ion Ratio Lower Upper
43 100
72 21.1 16.5 24.7

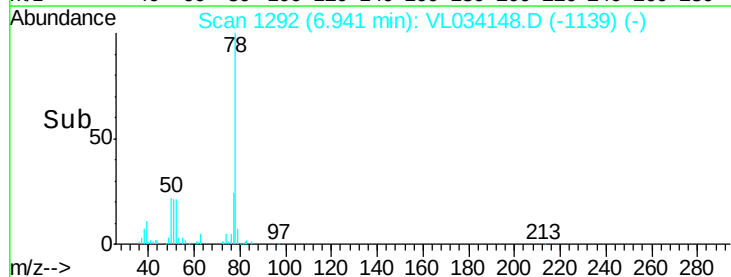
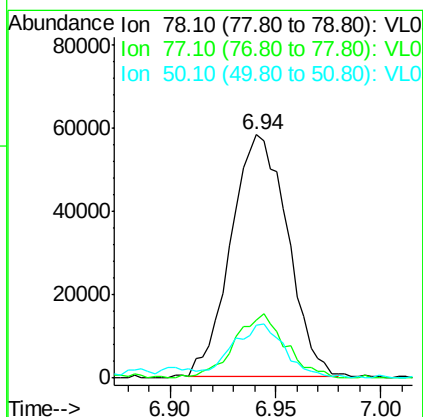
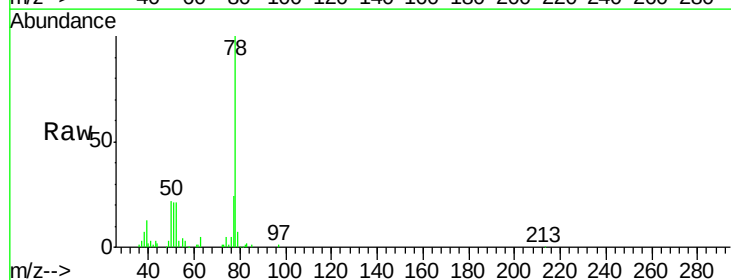
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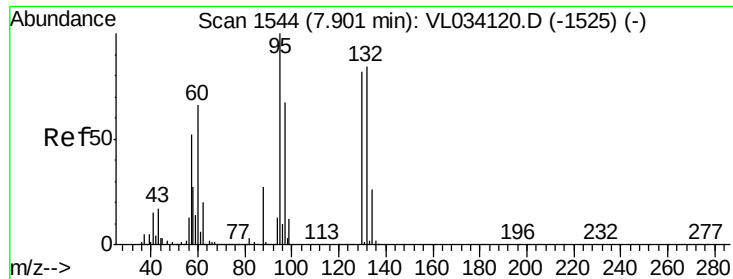
MMDadoda
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#36
Benzene
Concen: 0.657 ppbv
RT: 6.94 min Scan# 1292
Delta R.T. -0.01 min
Lab File: VL034148.D
Acq: 10 Sep 2019 18:32

Tgt Ion: 78 Resp: 107475
Ion Ratio Lower Upper
78 100
77 24.2 20.3 30.5
50 21.1 16.9 25.3





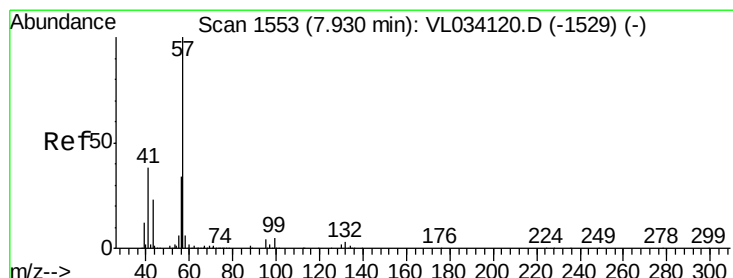
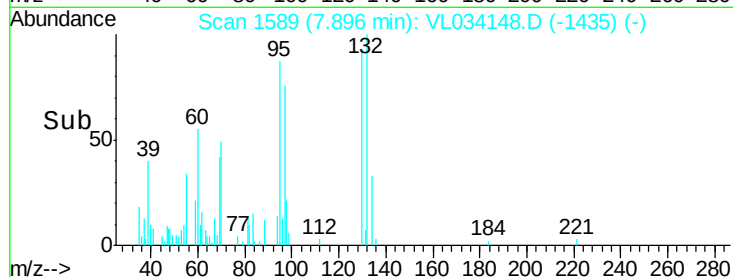
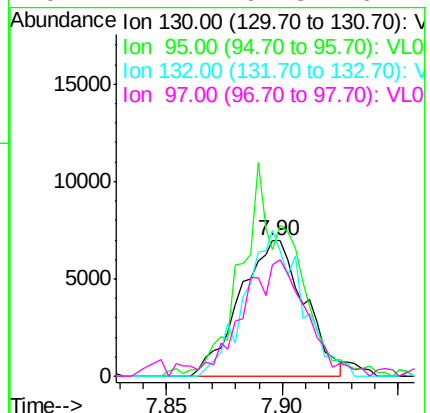
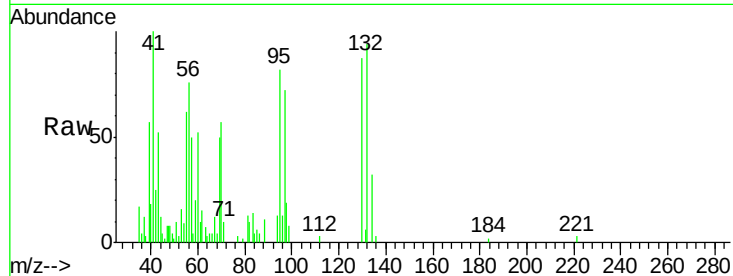
#38
 Trichloroethene
 Concen: 0.221 ppbv
 RT: 7.90 min Scan# 1589
 Delta R.T. -0.01 min
 Lab File: VL034148.D
 Acq: 10 Sep 2019 18:32

Instrument :
 MSVOA_L
 ClientSampled :
 SV3DL

Tot Ion:	130	Resp:	13467
Ion Ratio	Lower	Upper	
130	100		
95	88.9	97.2	145.8#
132	107.7	81.4	122.2
97	74.2	64.8	97.2

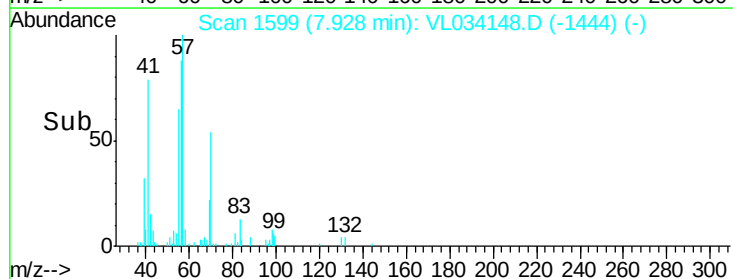
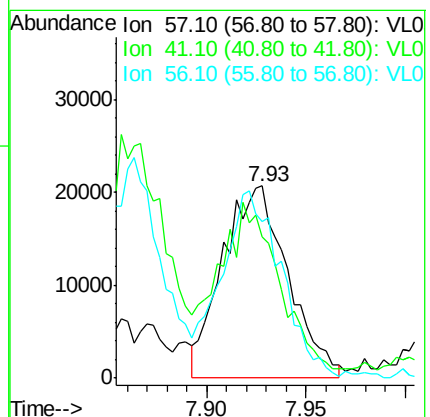
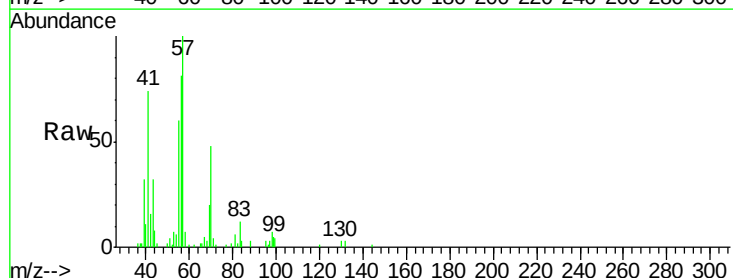
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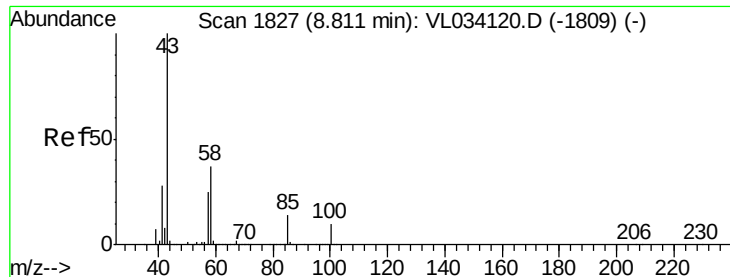
MMDadoda
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#44
 2,2,4-Trimethylpentane
 Concen: 0.157 ppbv m
 RT: 7.93 min Scan# 1599
 Delta R.T. -0.00 min
 Lab File: VL034148.D
 Acq: 10 Sep 2019 18:32

Tgt Ion:	57	Resp:	47196
Ion Ratio	Lower	Upper	
57	100		
41	78.0	28.4	42.6#
56	88.5	26.3	39.5#





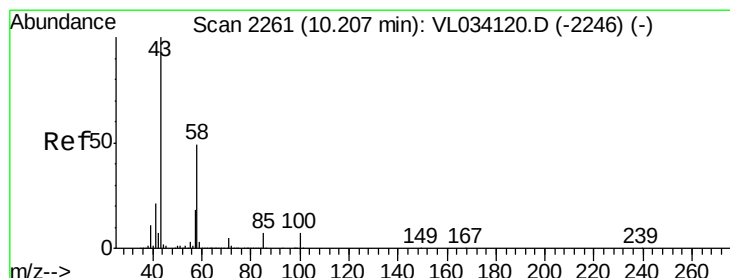
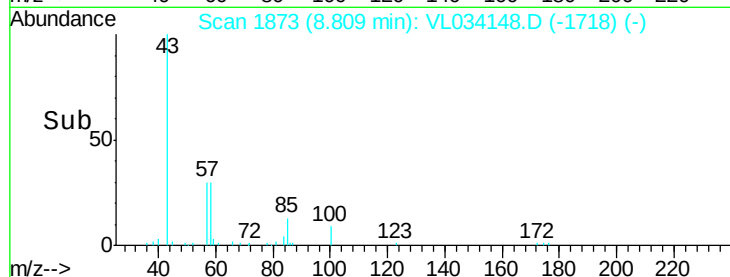
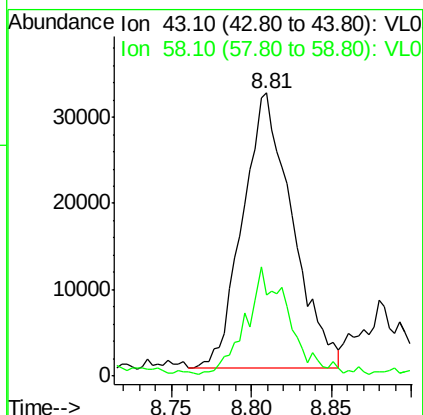
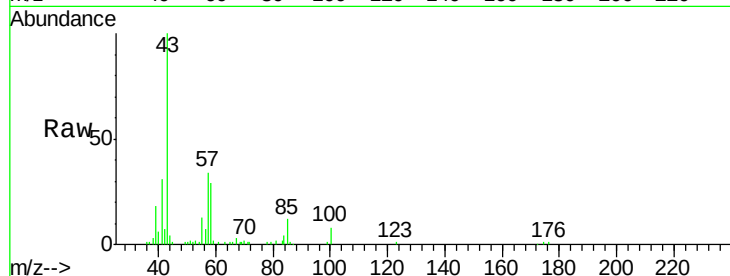
#50
 4-Methyl-2-Pentanone
 Concen: 0.324 ppbv
 RT: 8.81 min Scan# 1873
 Delta R.T. -0.00 min
 Lab File: VL034148.D
 Acq: 10 Sep 2019 18:32

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3DL

Tot Ion	43	Resp	67942
Ion Ratio	Lower	Upper	
43	100		
58	33.9	28.5	42.7

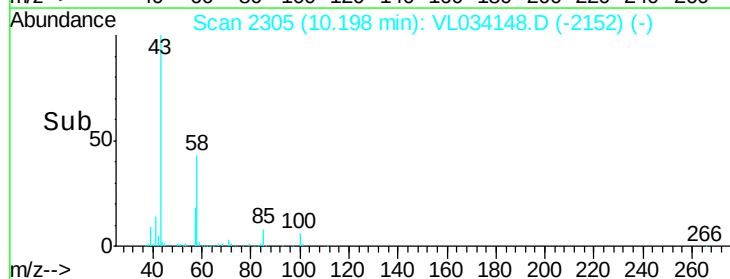
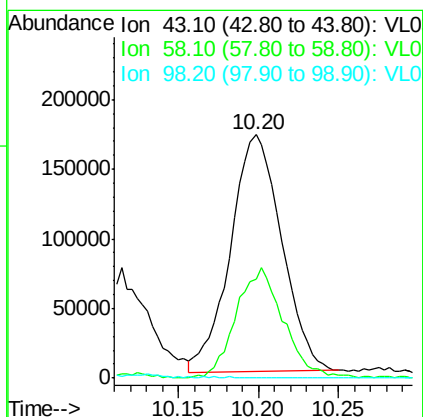
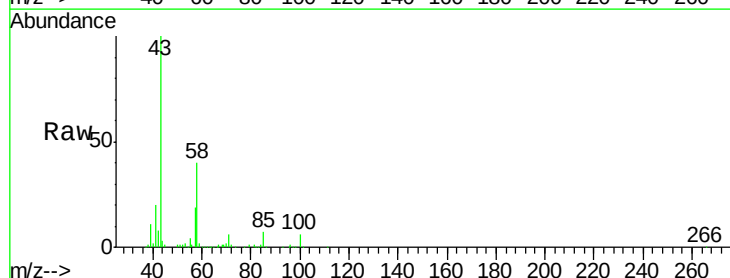
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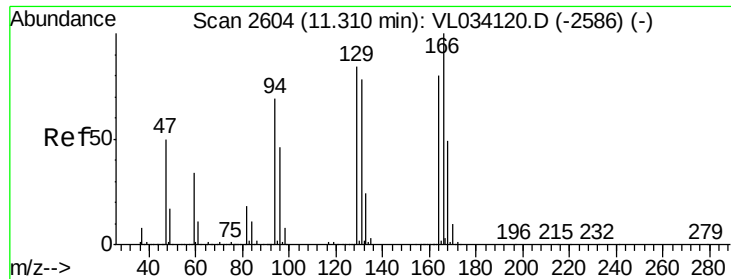
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#51
 2-Hexanone
 Concen: 2.048 ppbv
 RT: 10.20 min Scan# 2305
 Delta R.T. -0.01 min
 Lab File: VL034148.D
 Acq: 10 Sep 2019 18:32

Tgt Ion	43	Resp	371221
Ion Ratio	Lower	Upper	
43	100		
58	43.7	38.2	57.2
98	0.6	0.1	0.1#





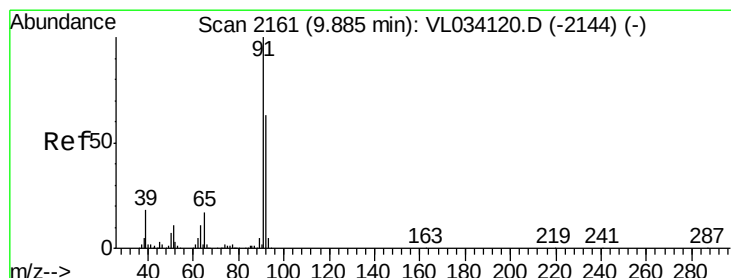
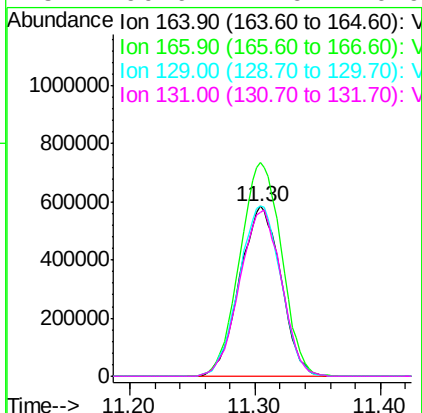
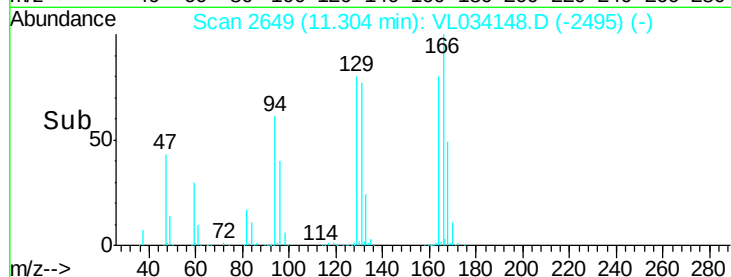
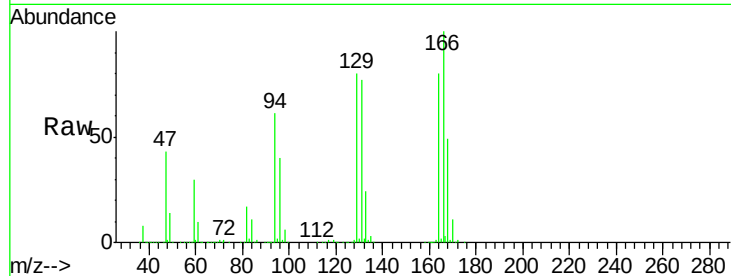
#52
Tetrachloroethene
Concen: 23.149 ppbv
RT: 11.30 min Scan# 2649
Delta R.T. -0.01 min
Lab File: VL034148.D
Acq: 10 Sep 2019 18:32

Instrument :
MSVOA_L
ClientSampleId :
SV3DL

Tot Ion	Ratio	Lower	Upper
164	100		
166	125.5	99.5	149.3
129	99.8	83.6	125.4
131	96.6	77.9	116.9

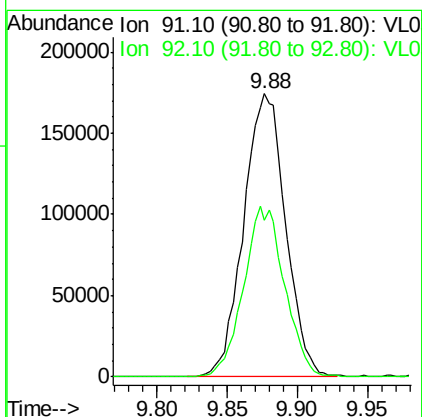
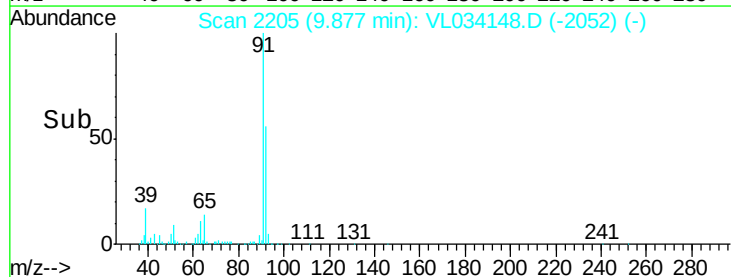
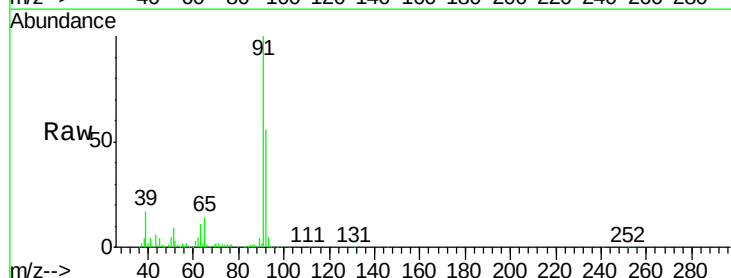
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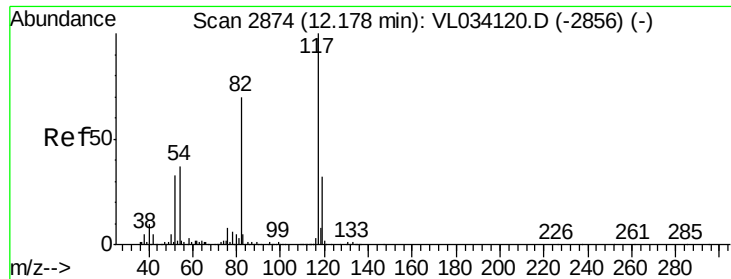
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#53
Toluene
Concen: 2.003 ppbv
RT: 9.88 min Scan# 2205
Delta R.T. -0.01 min
Lab File: VL034148.D
Acq: 10 Sep 2019 18:32

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.0	49.3	73.9





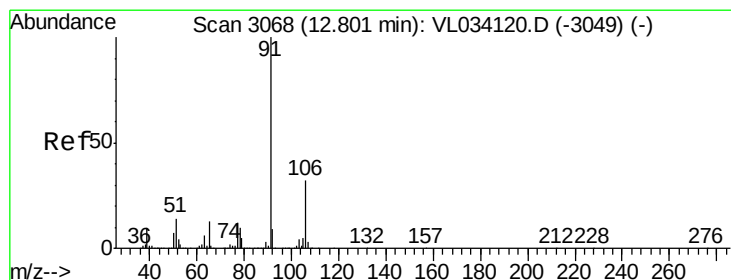
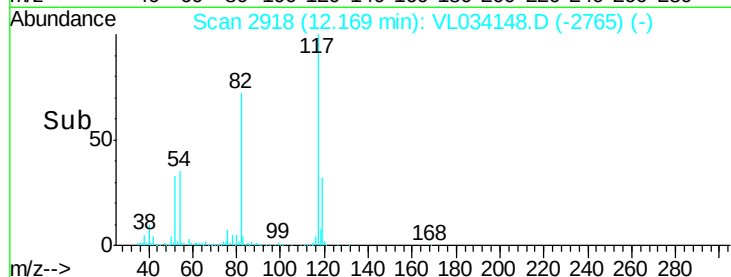
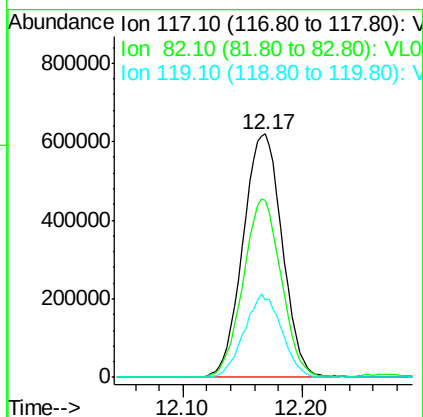
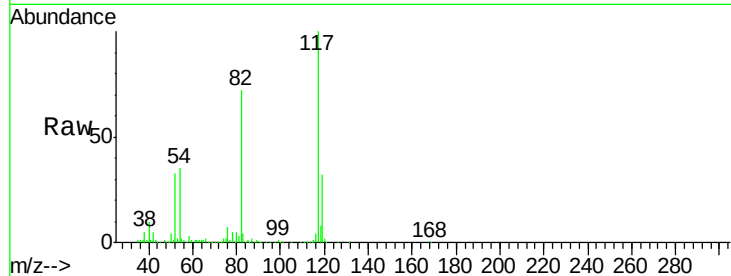
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.17 min Scan# 2918
Delta R.T. -0.01 min
Lab File: VL034148.D
Acq: 10 Sep 2019 18:32

Instrument :
MSVOA_L
ClientSampleId :
SV3DL

Tot Ion	Ratio	Lower	Upper
117	100		
82	71.3	55.8	83.6
119	32.8	43.1	64.7#

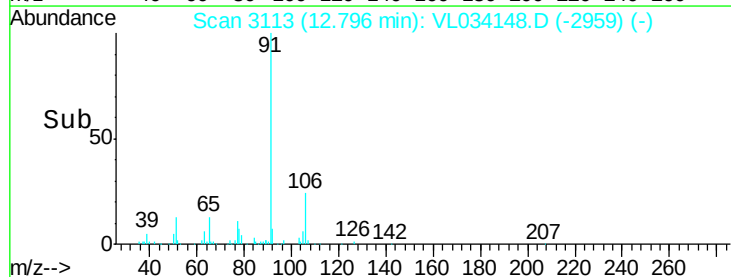
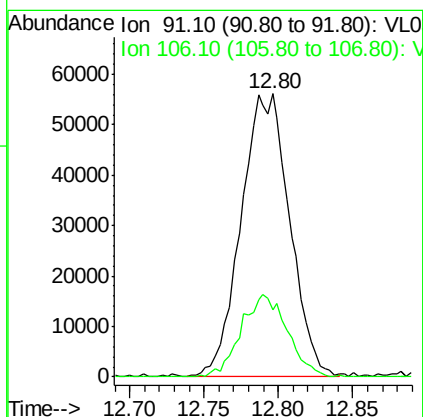
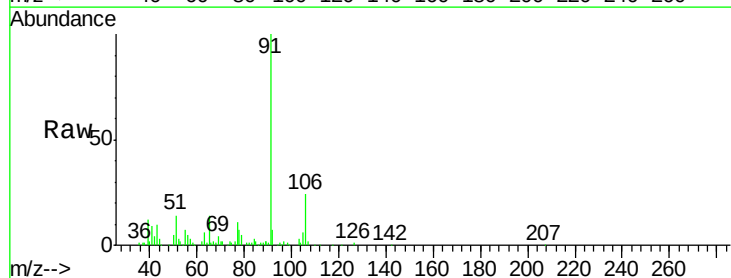
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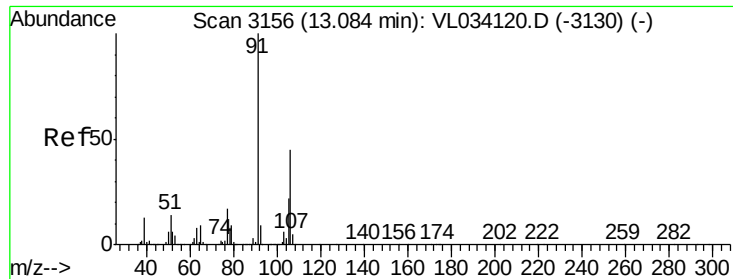
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#58
Ethyl Benzene
Concen: 0.553 ppbv m
RT: 12.80 min Scan# 3113
Delta R.T. -0.01 min
Lab File: VL034148.D
Acq: 10 Sep 2019 18:32

Tgt Ion	Ratio	Lower	Upper
91	100		
106	23.7	25.3	37.9#





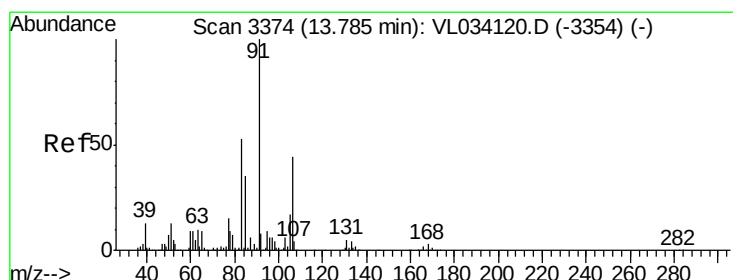
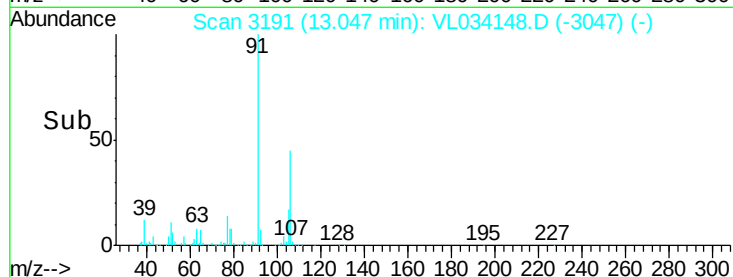
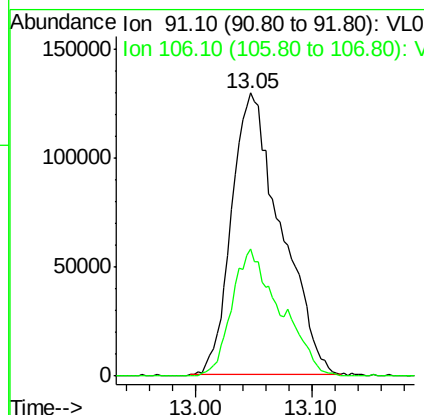
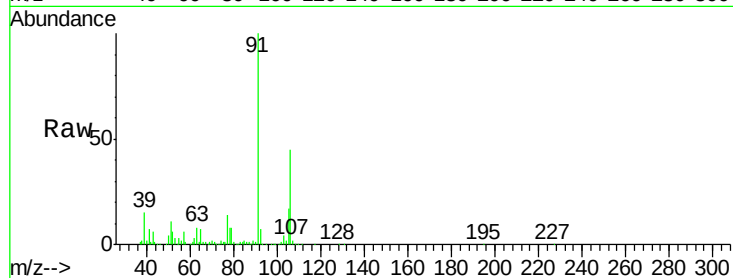
#59
m/p-Xylene
Concen: 2.026 ppbv
RT: 13.05 min Scan# 3191
Delta R.T. -0.04 min
Lab File: VL034148.D
Acq: 10 Sep 2019 18:32

Instrument :
MSVOA_L
ClientSampleId :
SV3DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		382191		
106	44.1	35.4	53.2		

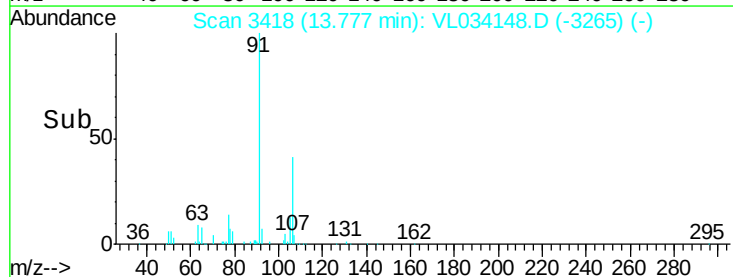
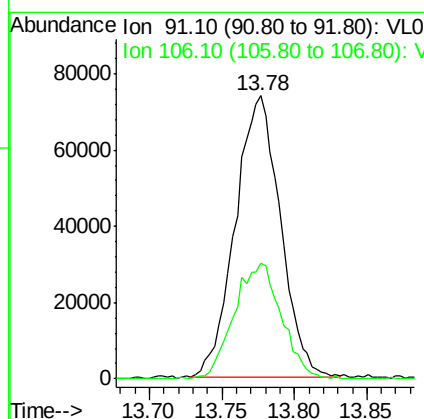
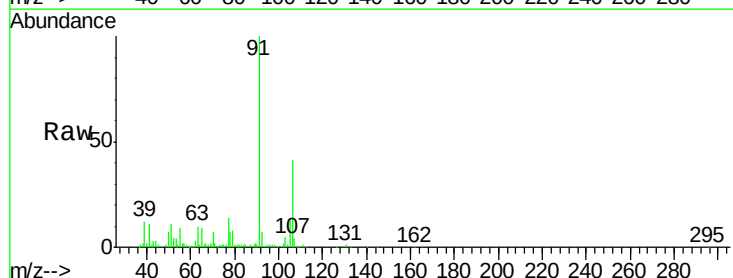
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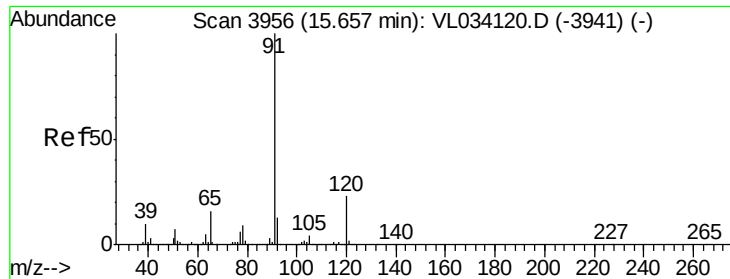
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#60
o-Xylene
Concen: 0.850 ppbv
RT: 13.78 min Scan# 3418
Delta R.T. -0.01 min
Lab File: VL034148.D
Acq: 10 Sep 2019 18:32

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		159589		
106	43.0	21.4	64.3		





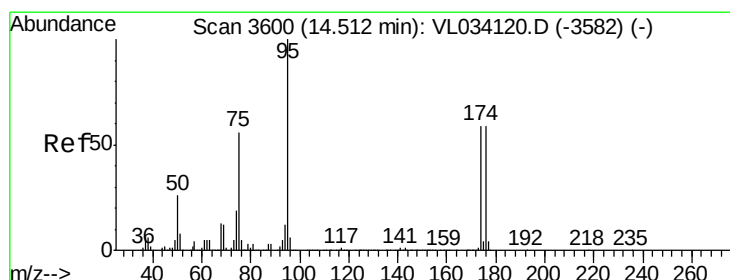
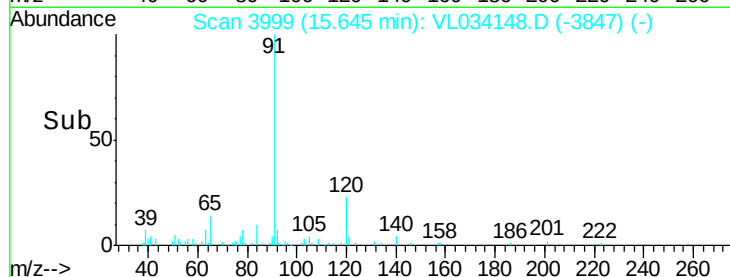
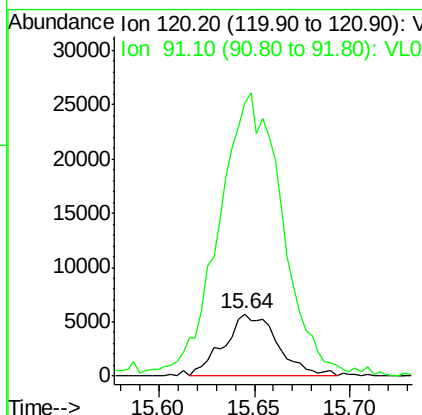
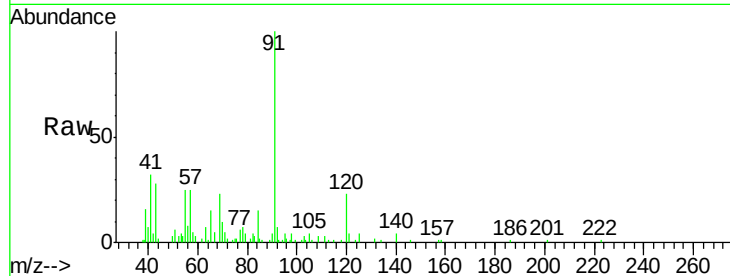
#64
n-propylbenzene
Concen: 0.181 ppbv m
RT: 15.64 min Scan# 3999
Delta R.T. -0.01 min
Lab File: VL034148.D
Acq: 10 Sep 2019 18:32

Instrument :
MSVOA_L
ClientSampled :
SV3DL

Tot Ion:120 Resp: 11102
Ion Ratio Lower Upper
120 100
91 547.1 376.8 565.2

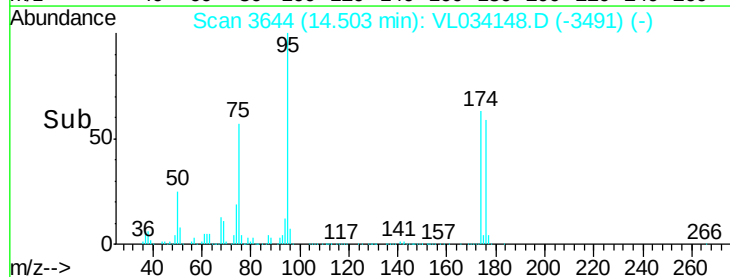
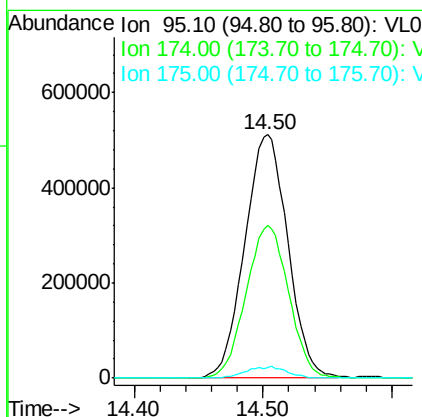
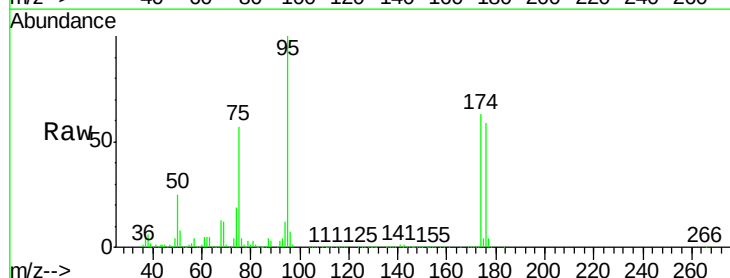
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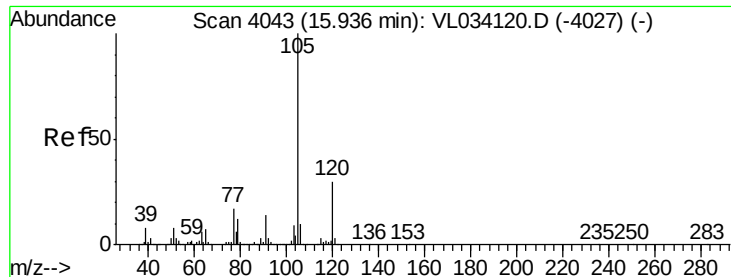
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.276 ppbv
RT: 14.50 min Scan# 3644
Delta R.T. -0.01 min
Lab File: VL034148.D
Acq: 10 Sep 2019 18:32

Tgt Ion: 95 Resp: 1184398
Ion Ratio Lower Upper
95 100
174 62.5 48.1 72.1
175 4.6 3.5 5.3





#72

4-Ethyltoluene

Concen: 0.300 ppbv m

RT: 15.91 min Scan# 4083

Delta R.T. -0.02 min

Lab File: VL034148.D

Acq: 10 Sep 2019 18:32

Instrument :

MSVOA_L

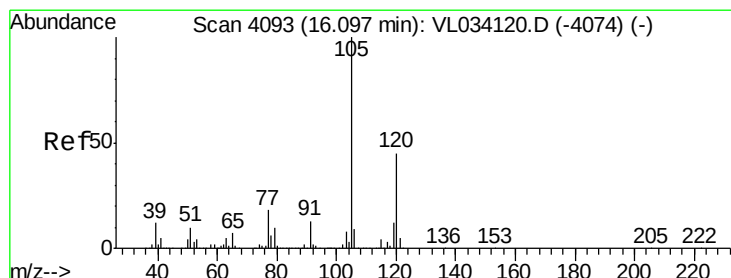
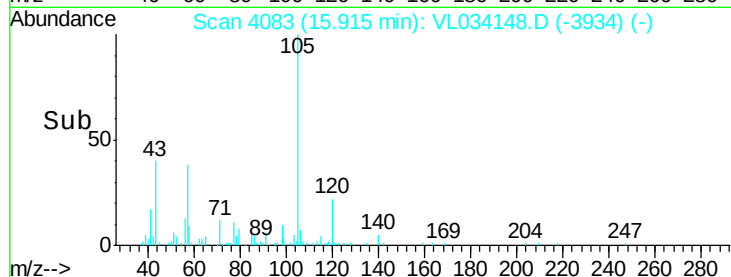
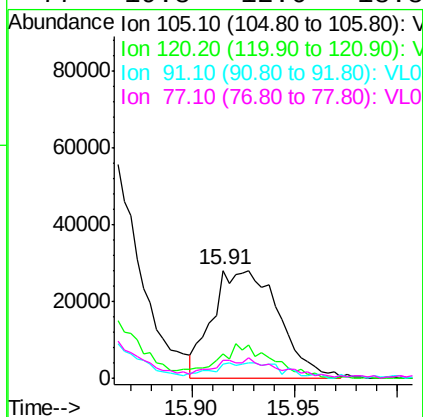
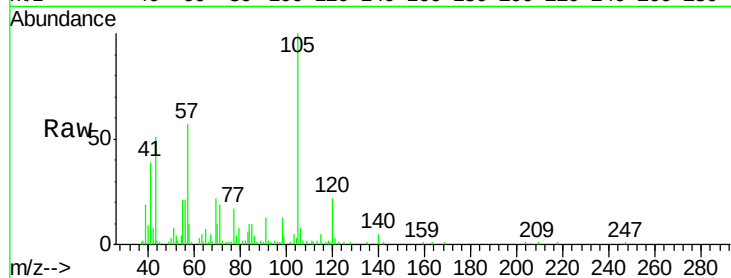
ClientSampleId :

SV3DL

Tot Ion:	105	Resp:	63495
Ion Ratio	Lower	Upper	
105	100		
120	26.4	23.8	35.6
91	16.7	11.4	17.0
77	19.8	12.6	18.8#

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#73

1,3,5-Trimethylbenzene

Concen: 0.262 ppbv m

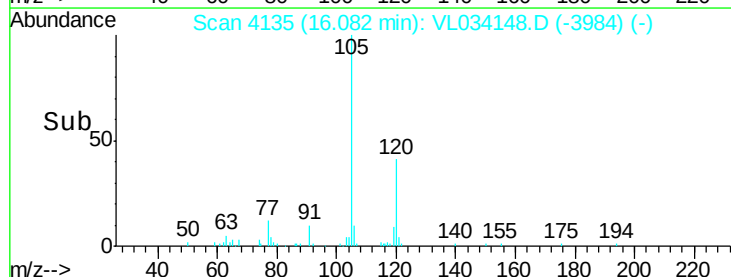
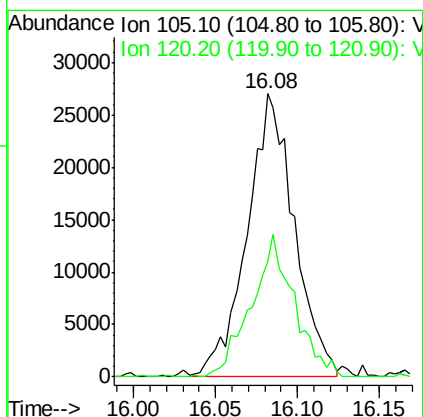
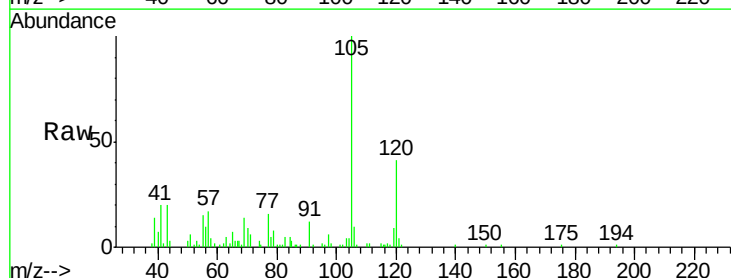
RT: 16.08 min Scan# 4135

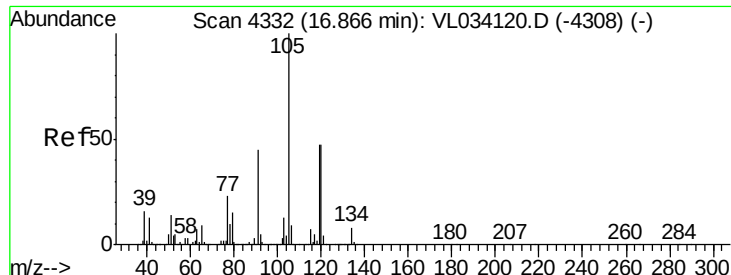
Delta R.T. -0.02 min

Lab File: VL034148.D

Acq: 10 Sep 2019 18:32

Tgt Ion:	105	Resp:	54029
Ion Ratio	Lower	Upper	
105	100		
120	40.8	35.8	53.8





#74
 1,2,4-Trimethylbenzene
 Concen: 0.867 ppbv
 RT: 16.85 min Scan# 4374
 Delta R.T. -0.02 min
 Lab File: VL034148.D
 Acq: 10 Sep 2019 18:32

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3DL

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	38.1	37.7	56.5
91	13.6	36.2	54.2#
77	12.7	18.5	27.7#

Manual Integrations
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