

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101719\
 Data File : VL034330.D
 Acq On : 18 Oct 2019 00:01
 Operator : SY/AP
 Sample : K5409-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3

Manual Integrations
 APPROVED

MMDadoda
 10/22/2019 2:55:53 PM

Quant Time: Oct 18 05:48:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 18 05:48:54 2019
 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	892681	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	1897517	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.16	117	1958279	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.49	95	1623480	9.79	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	82955m	0.539	ppbv	
3) Chlorodifluoromethane	2.96	51	31706m	0.303	ppbv	
4) Chloromethane	3.12	50	31228	0.505	ppbv #	88
5) Vinyl Chloride	3.24	62	3778m	0.064	ppbv	
9) Propene	2.99	41	2627444	56.648	ppbv	86
10) Heptane	8.17	43	726228	6.100	ppbv	99
11) Trichlorofluoromethane	3.95	101	34761m	0.238	ppbv	
13) Ethanol	3.60	45	73940m	7.120	ppbv	
15) Acetone	3.84	43	7438778	58.259	ppbv #	79
17) tert-Butyl alcohol	4.31	59	140120	1.719	ppbv #	1
19) Isopropyl Alcohol	3.97	45	72396	1.016	ppbv #	95
20) Methylene Chloride	4.35	84	54967	1.191	ppbv	92
26) Hexane	5.71	57	1234973	13.441	ppbv #	41
27) Carbon Disulfide	4.56	76	234685	2.460	ppbv	99
29) Chloroform	5.78	83	130511	0.898	ppbv	98
30) Cyclohexane	7.17	84	49772m	0.737	ppbv	
31) cis-1,2-Dichloroethene	5.58	61	34360m	0.368	ppbv	
34) 2-Butanone	5.26	43	940332	6.063	ppbv	97
36) Benzene	6.93	78	1095434	6.017	ppbv #	94
38) Trichloroethene	7.88	130	179728	2.460	ppbv	95
44) 2,2,4-Trimethylpentane	7.91	57	129298	0.384	ppbv #	54
50) 4-Methyl-2-Pentanone	8.80	43	107417	0.484	ppbv	100
52) Tetrachloroethene	11.33	164	13361254	187.228	ppbv	92
53) Toluene	9.86	91	1895154	9.432	ppbv	99
58) Ethyl Benzene	12.78	91	557069	2.035	ppbv	96
59) m/p-Xylene	13.04	91	1646088	6.940	ppbv	100
60) o-Xylene	13.77	91	636887	2.697	ppbv	100
61) Styrene	13.60	104	70942	0.427	ppbv	97
62) Isopropylbenzene	14.74	105	55979m	0.180	ppbv	
64) n-propylbenzene	15.64	120	49840m	0.623	ppbv	
65) tert-Butylbenzene	16.85	119	99712m	0.361	ppbv	
72) 4-Ethyltoluene	15.92	105	283108	1.066	ppbv	98
73) 1,3,5-Trimethylbenzene	16.07	105	233868	0.889	ppbv	98
74) 1,2,4-Trimethylbenzene	16.85	105	909228	3.314	ppbv #	72
79) Naphthalene	22.32	128	69871m	0.349	ppbv	
80) Naphthalene,2-methyl-	25.04	142	5809	0.100	ppbv #	53

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

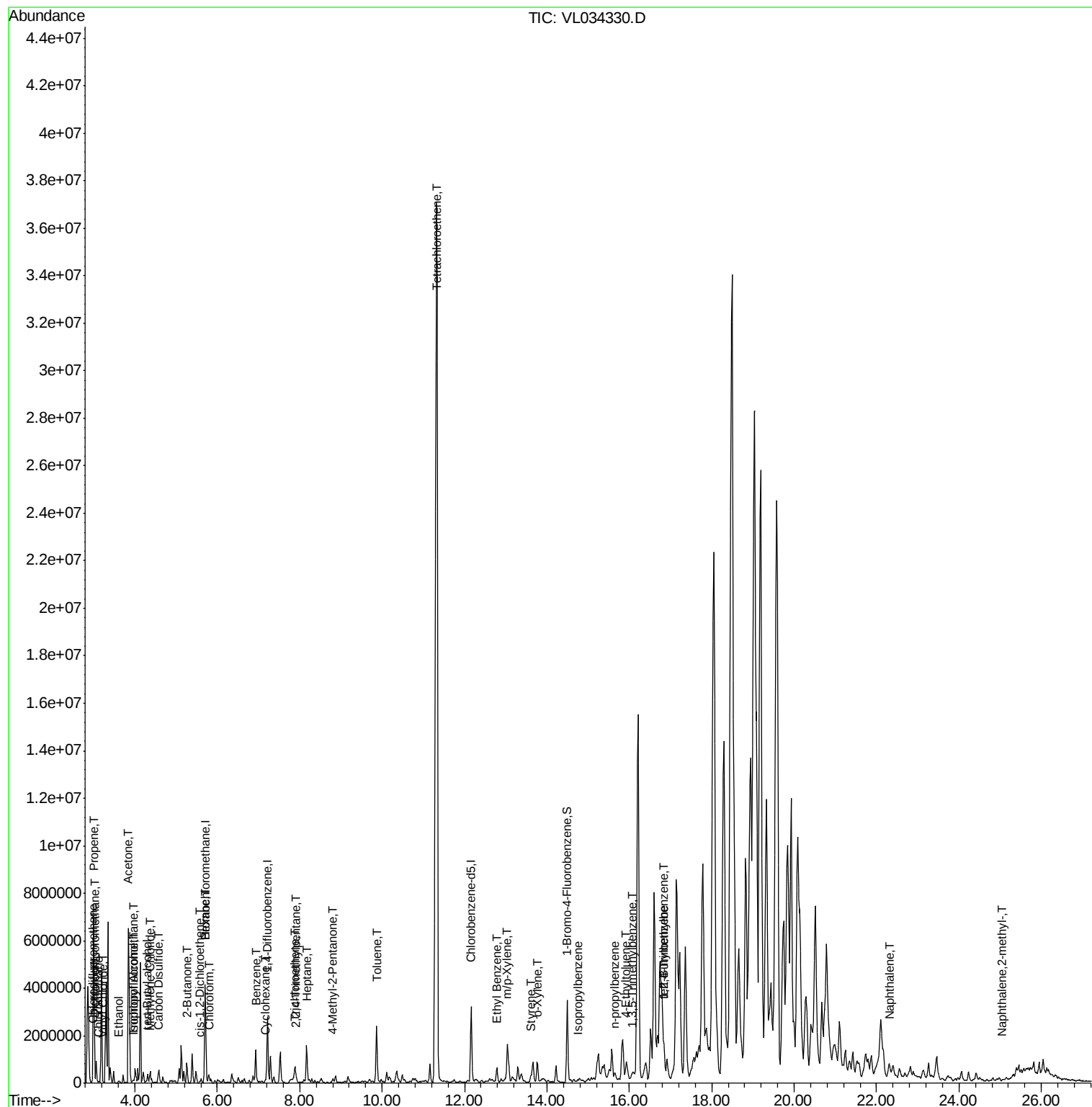
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101719\
Data File : VL034330.D
Acq On : 18 Oct 2019 00:01
Operator : SY/AP
Sample : K5409-03
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

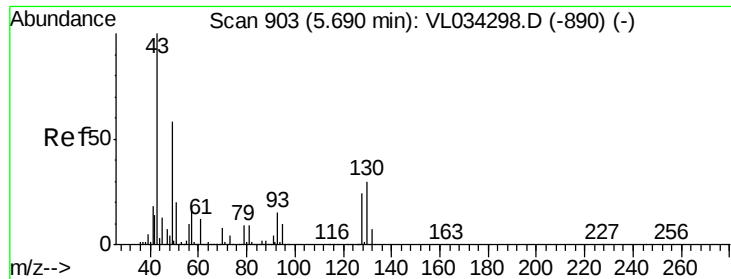
Instrument :
MSVOA_L
ClientSampleId :
SV3

Manual Integrations
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Quant Time: Oct 18 05:48:54 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct
QLast Update : Thu Oct 17 05:12:37 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 905

Delta R.T. 0.01 min

Lab File: VL034330.D

Acq: 18 Oct 2019 00:01

Instrument :

MSVOA_L

ClientSampled :

SV3

Tot Ion: 49 Resp: 892681

Ion Ratio Lower Upper

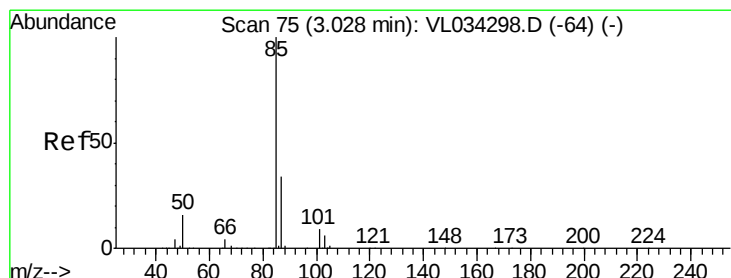
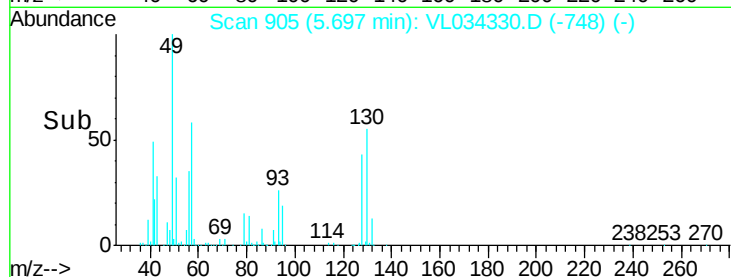
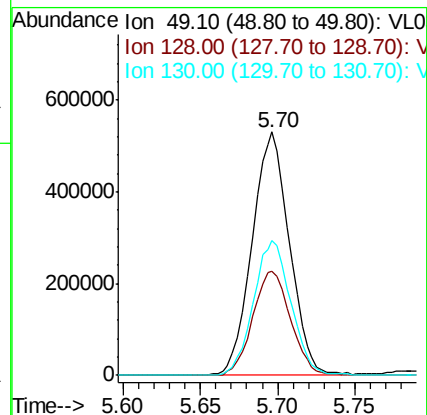
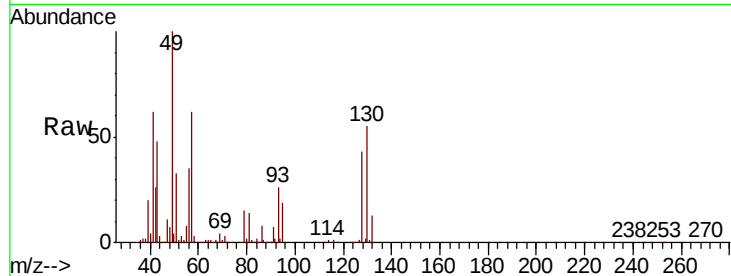
49 100

128 43.7 20.6 61.8

130 55.7 26.2 78.5

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 0.539 ppbv m

RT: 3.03 min Scan# 76

Delta R.T. 0.00 min

Lab File: VL034330.D

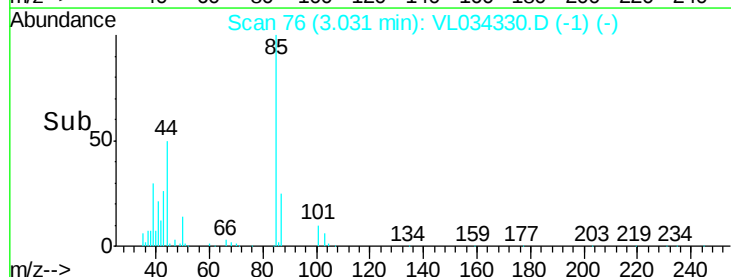
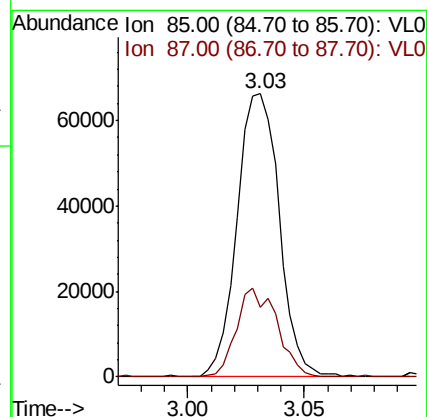
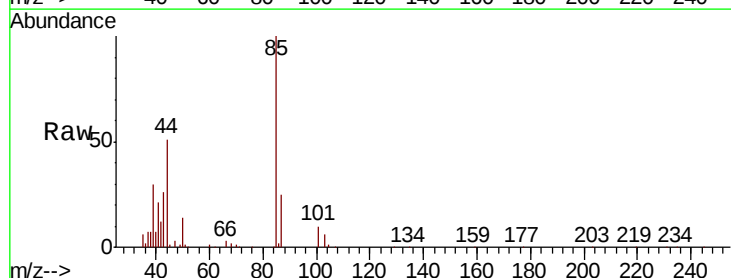
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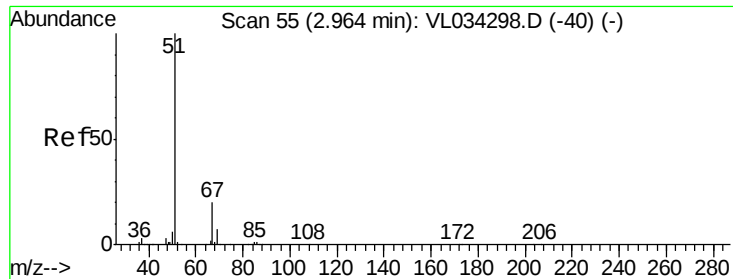
Tgt Ion: 85 Resp: 82955

Ion Ratio Lower Upper

85 100

87 24.6 27.0 40.6#





#3

Chlorodifluoromethane

Concen: 0.303 ppbv

RT: 2.96 min Scan# 55

Delta R.T. -0.00 min

Lab File: VL034330.D

Acq: 18 Oct 2019 00:01

Instrument :

MSVOA_L

ClientSampled :

SV3

Tot Ion: 51 Resp: 31706

Ion Ratio Lower Upper

51 100

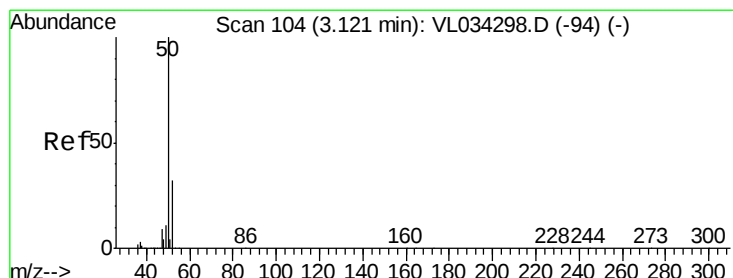
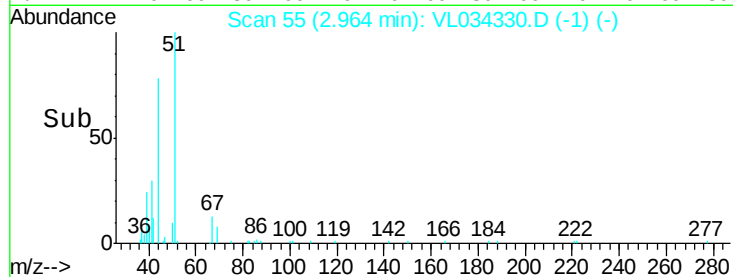
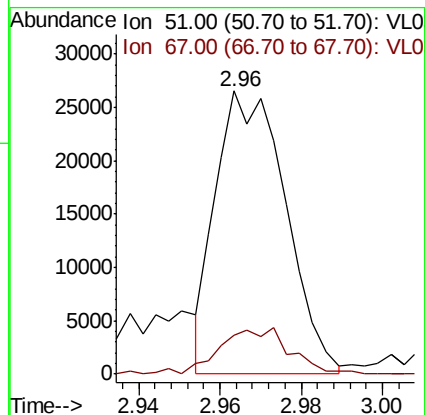
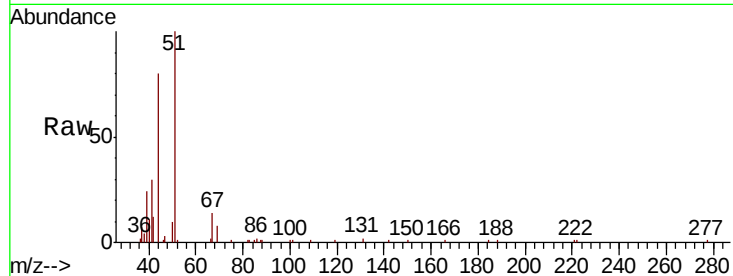
67 9.7 15.8 23.8#

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#4

Chloromethane

Concen: 0.505 ppbv

RT: 3.12 min Scan# 103

Delta R.T. -0.00 min

Lab File: VL034330.D

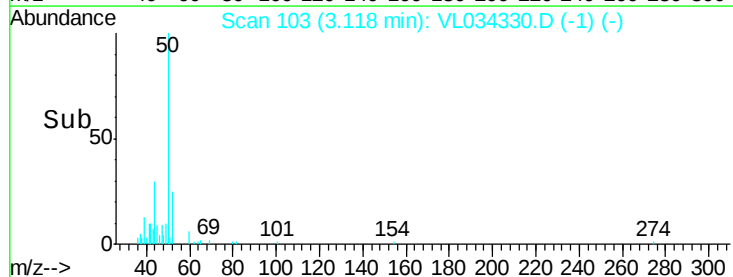
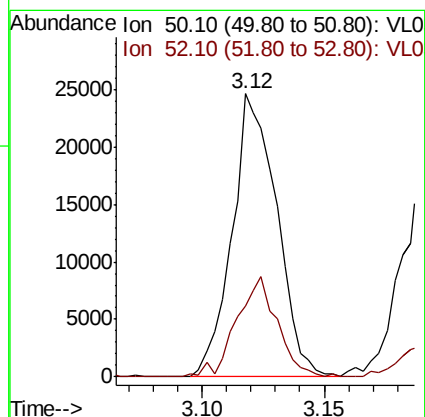
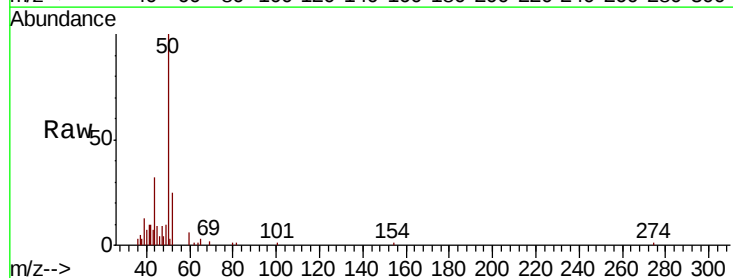
Acq: 18 Oct 2019 00:01

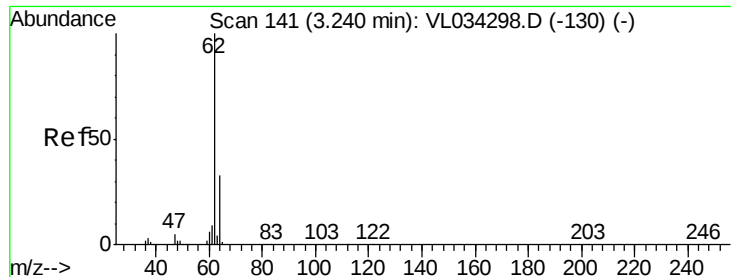
Tgt Ion: 50 Resp: 31228

Ion Ratio Lower Upper

50 100

52 25.0 25.4 38.2#





#5

Vinyl Chloride

Concen: 0.064 ppbv

RT: 3.24 min Scan# 141

Delta R.T. -0.00 min

Lab File: VL034330.D

Acq: 18 Oct 2019 00:01

Instrument :

MSVOA_L

ClientSampled :

SV3

Tot Ion: 62 Resp: 3778

Ion Ratio Lower Upper

62 100

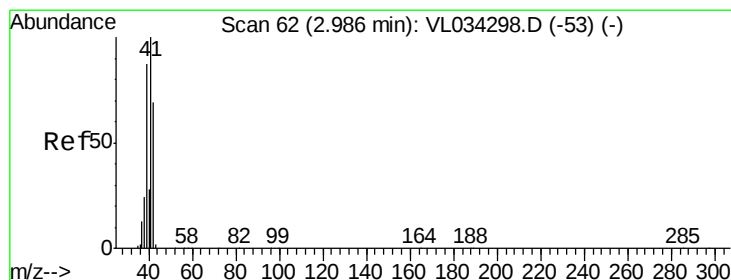
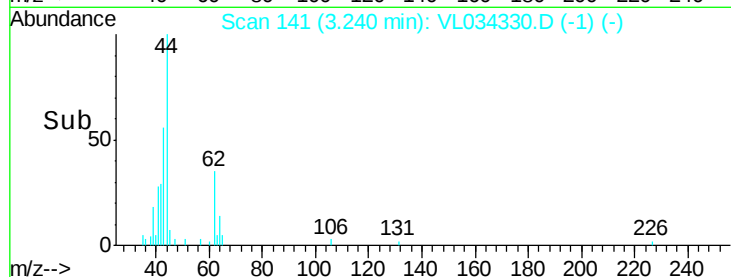
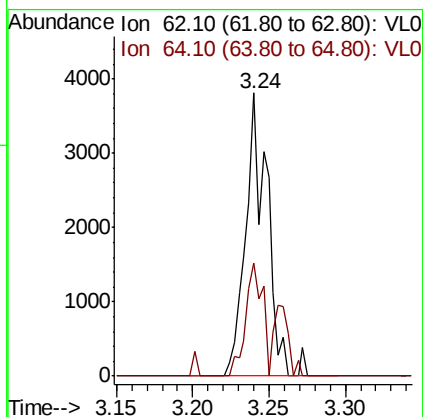
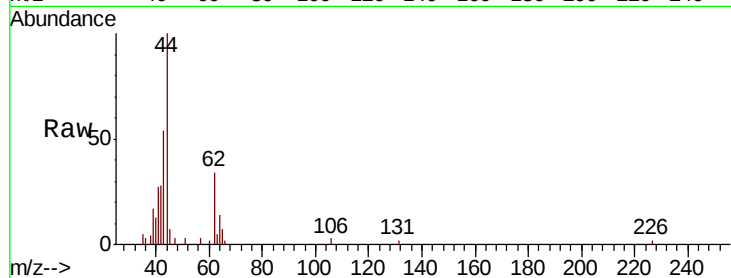
64 40.0 26.0 39.0#

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#9

Propene

Concen: 56.648 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.01 min

Lab File: VL034330.D

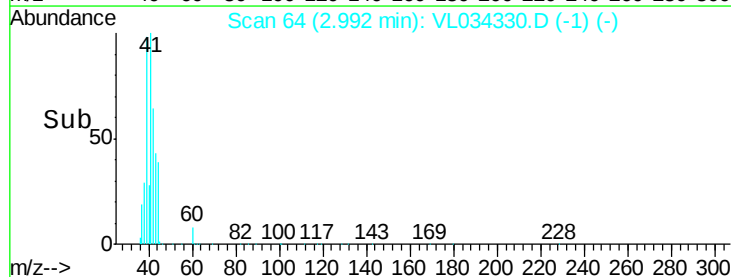
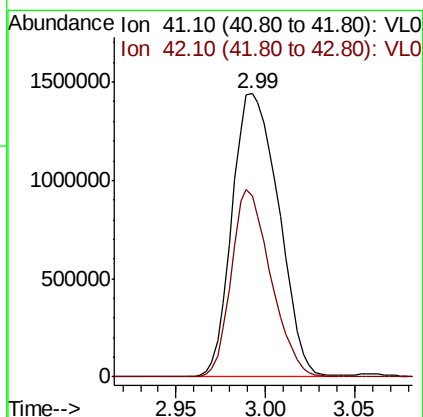
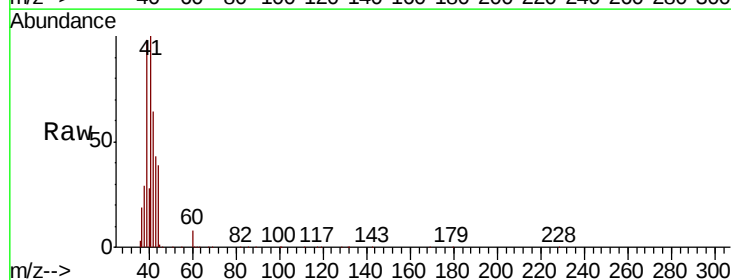
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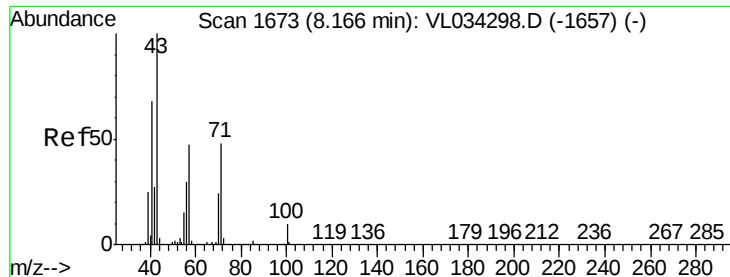
Tgt Ion: 41 Resp: 2627444

Ion Ratio Lower Upper

41 100

42 56.2 53.9 80.9





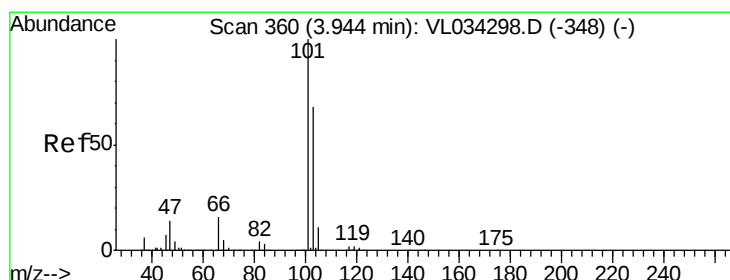
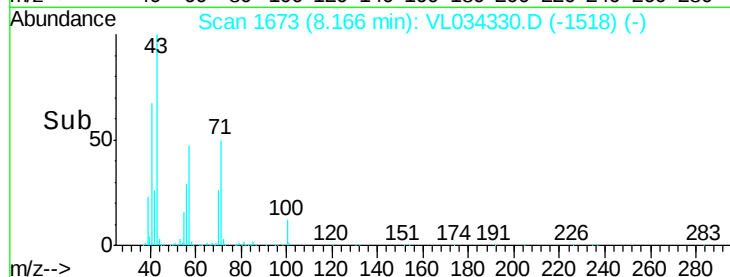
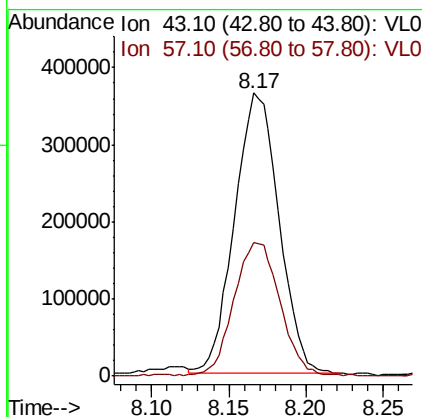
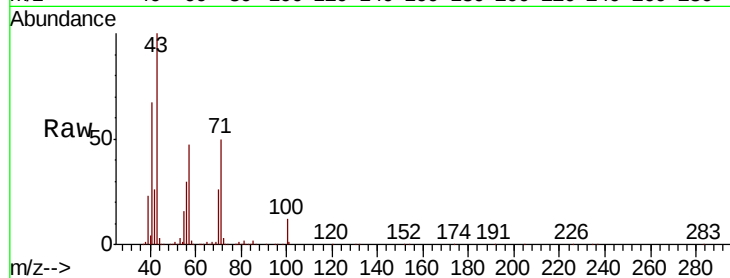
#10
Heptane
Concen: 6.100 ppbv
RT: 8.17 min Scan# 1673
Delta R.T. -0.00 min
Lab File: VL034330.D
Acq: 18 Oct 2019 00:01

Instrument :
MSVOA_L
ClientSampled :
SV3

Tot Ion: 43 Resp: 726228
Ion Ratio Lower Upper
43 100
57 50.4 39.5 59.3

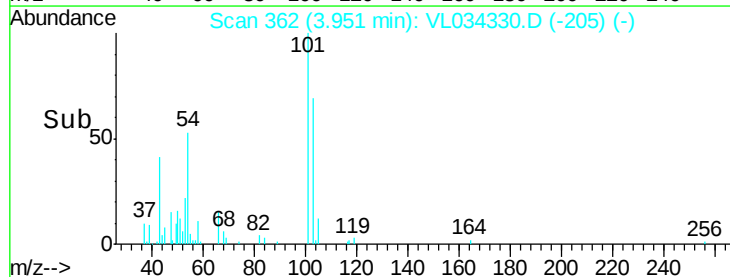
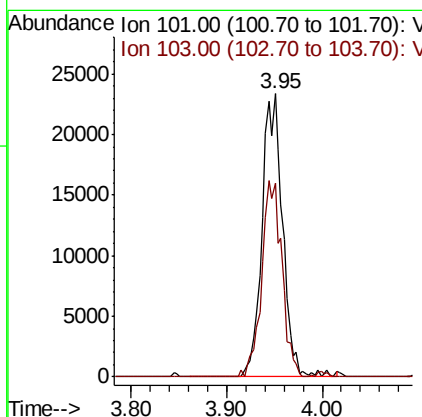
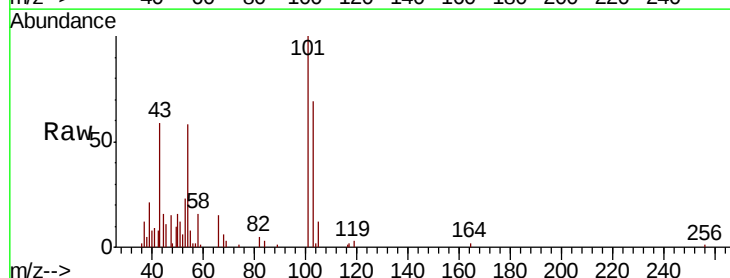
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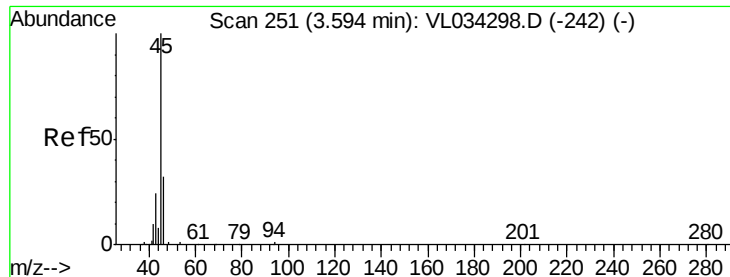
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#11
Trichlorofluoromethane
Concen: 0.238 ppbv m
RT: 3.95 min Scan# 362
Delta R.T. 0.01 min
Lab File: VL034330.D
Acq: 18 Oct 2019 00:01

Tgt Ion: 101 Resp: 34761
Ion Ratio Lower Upper
101 100
103 68.5 54.5 81.7





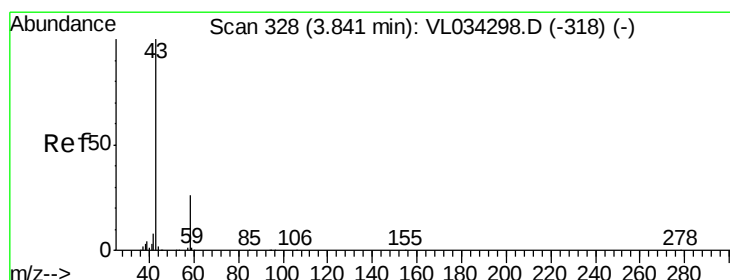
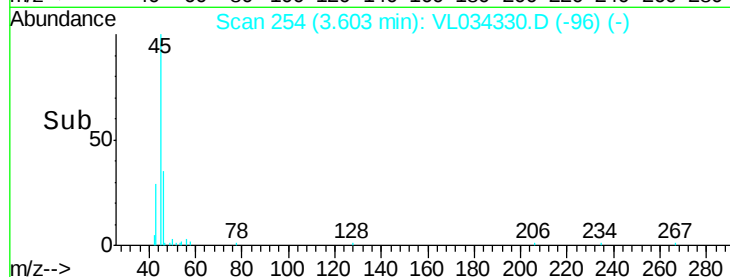
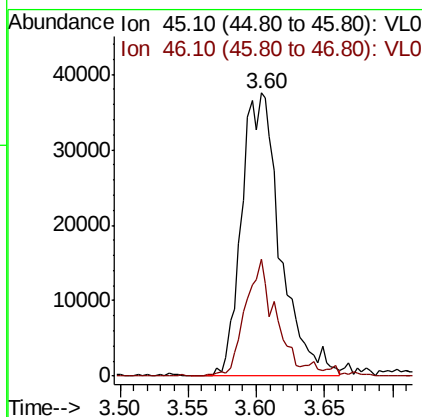
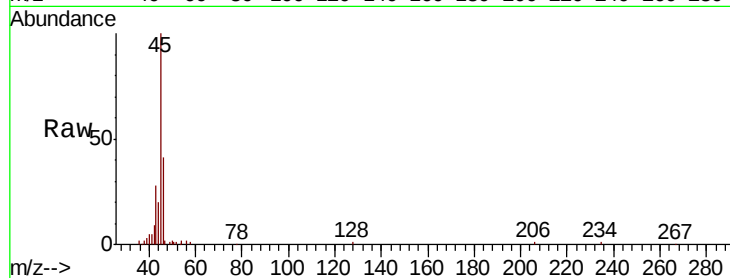
#13
Ethanol
Concen: 7.120 ppbv m
RT: 3.60 min Scan# 254
Delta R.T. 0.01 min
Lab File: VL034330.D
Acq: 18 Oct 2019 00:01

Instrument :
MSVOA_L
ClientSampled :
SV3

Tot Ion: 45 Resp: 73940
Ion Ratio Lower Upper
45 100
46 0.0 15.8 63.2#

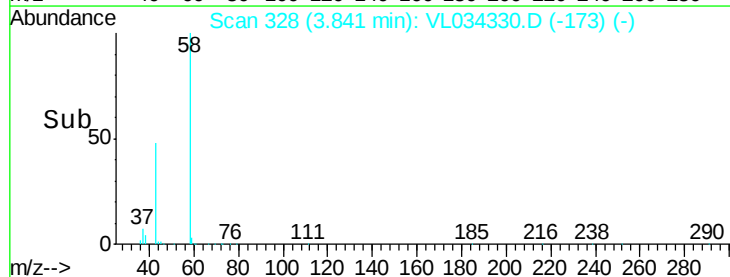
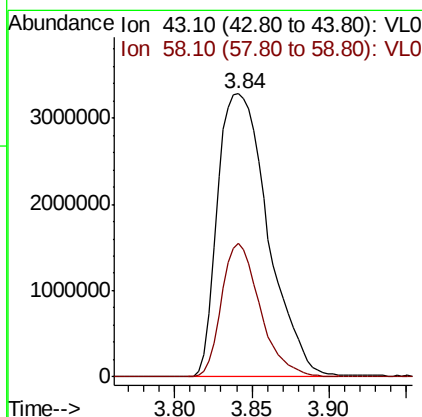
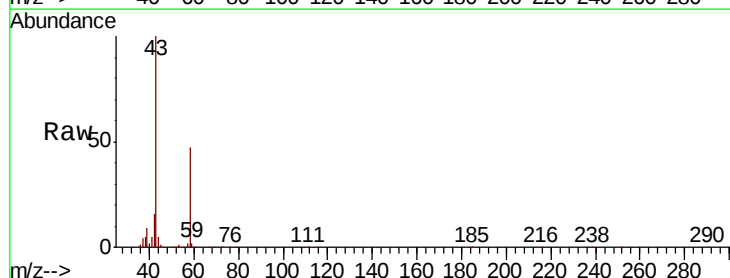
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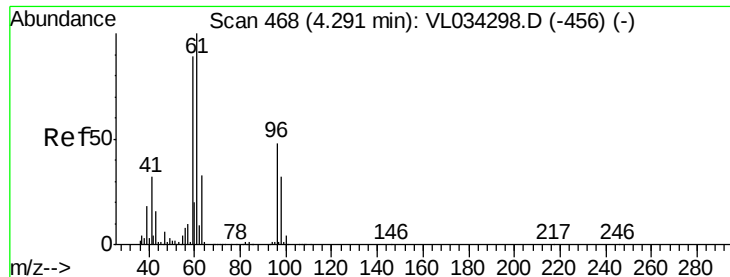
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#15
Acetone
Concen: 58.259 ppbv
RT: 3.84 min Scan# 328
Delta R.T. -0.00 min
Lab File: VL034330.D
Acq: 18 Oct 2019 00:01

Tgt Ion: 43 Resp: 7438778
Ion Ratio Lower Upper
43 100
58 36.3 20.4 30.6#





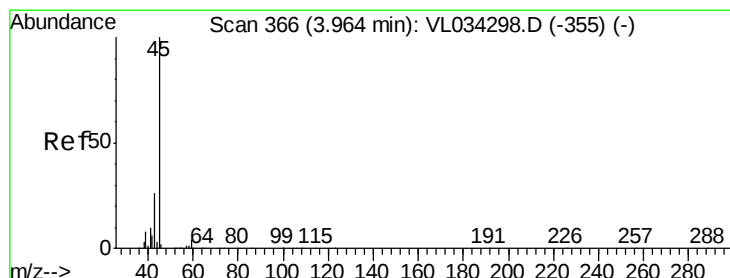
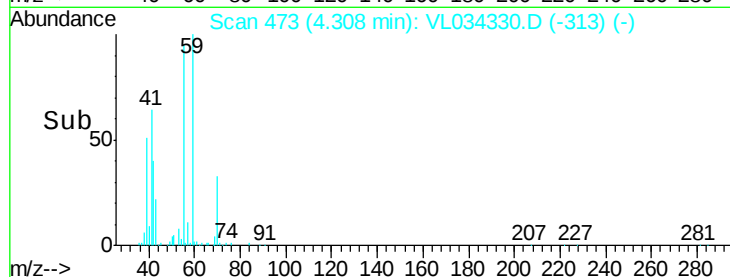
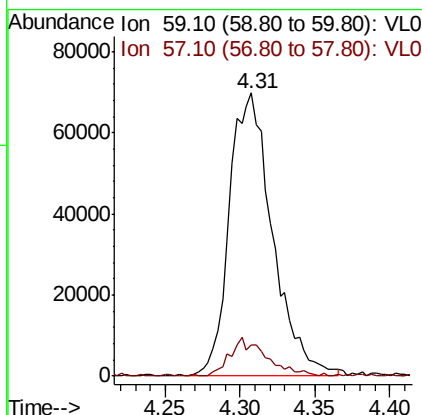
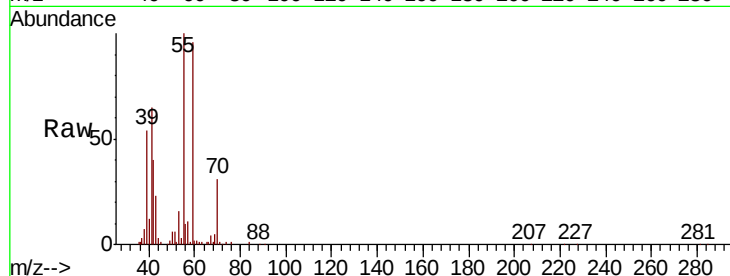
#17
tert-Butyl alcohol
Concen: 1.719 ppbv
RT: 4.31 min Scan# 473
Delta R.T. 0.02 min
Lab File: VL034330.D
Acq: 18 Oct 2019 00:01

Instrument :
MSVOA_L
ClientSampled :
SV3

Tot Ion	59	Resp	140120
Ion	Ratio	Lower	Upper
59	100		
57	287.4	8.8	13.2#

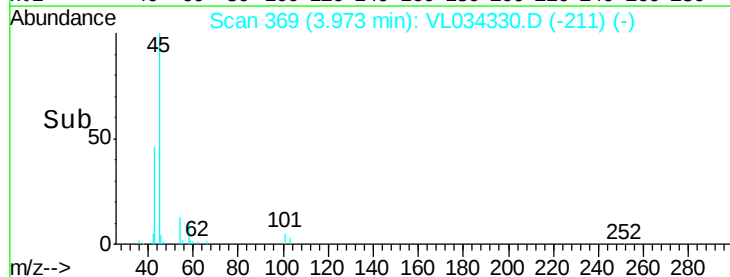
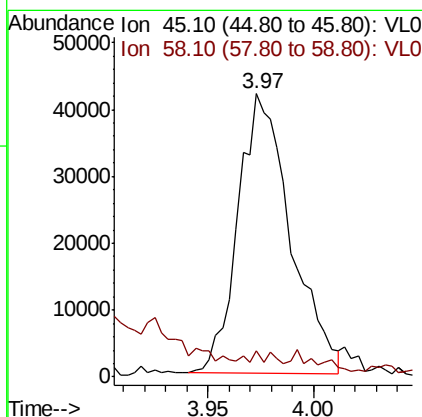
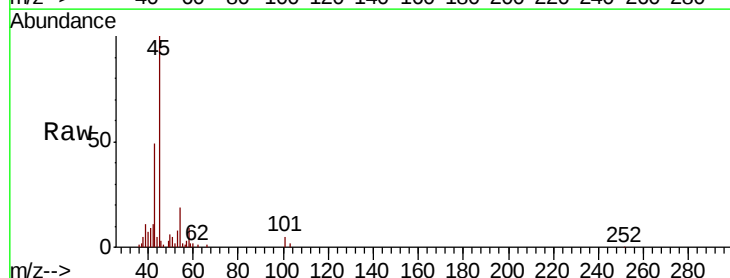
Manual Integrations
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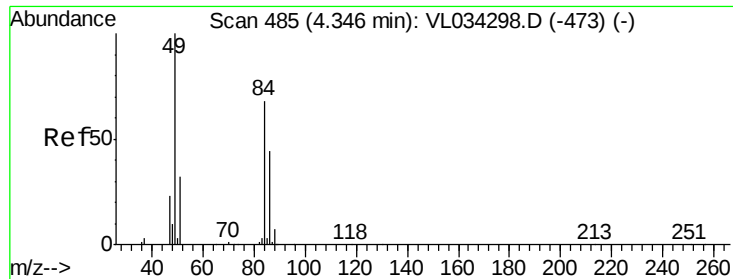
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#19
Isopropyl Alcohol
Concen: 1.016 ppbv
RT: 3.97 min Scan# 369
Delta R.T. 0.01 min
Lab File: VL034330.D
Acq: 18 Oct 2019 00:01

Tgt Ion	45	Resp	72396
Ion	Ratio	Lower	Upper
45	100		
58	0.0	1.4	2.2#





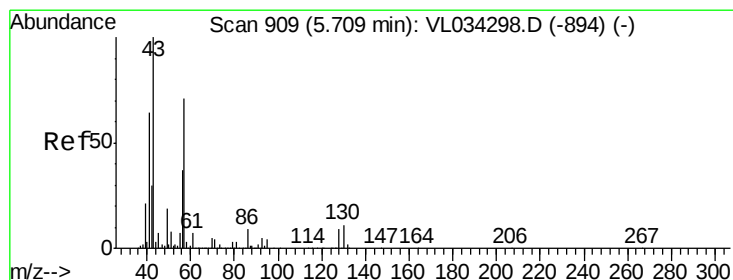
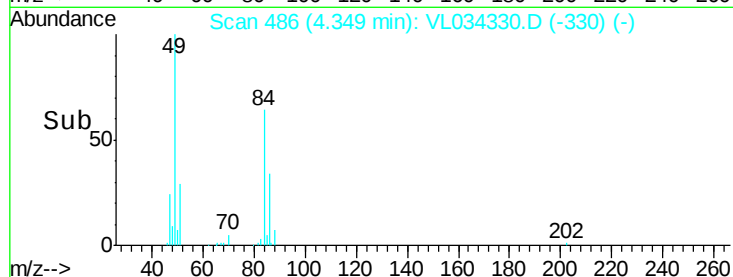
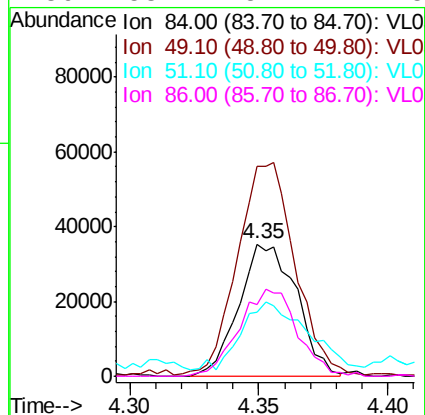
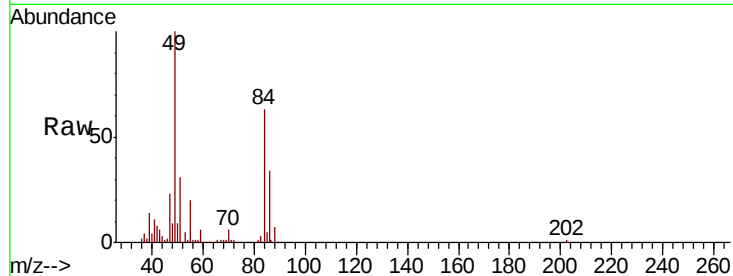
#20
Methvlene Chloride
Concen: 1.191 ppbv
RT: 4.35 min Scan# 486
Delta R.T. 0.00 min
Lab File: VL034330.D
Acq: 18 Oct 2019 00:01

Instrument :
MSVOA_L
ClientSampled :
SV3

Tot Ion:	84	Resp:	54967
Ion	Ratio	Lower	Upper
84	100		
49	155.6	118.5	177.7
51	44.0	38.8	58.2
86	53.4	51.7	77.5

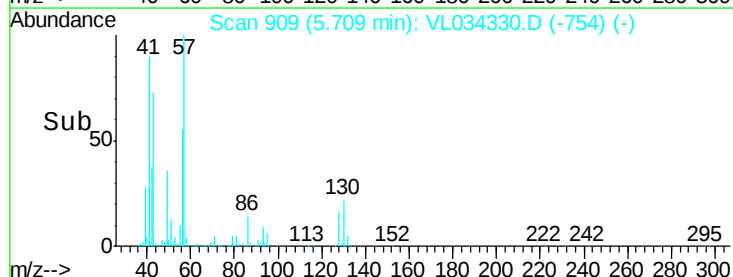
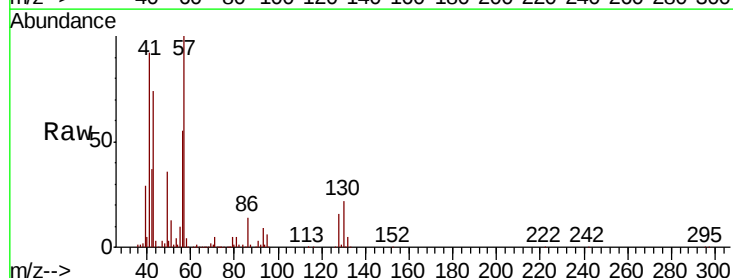
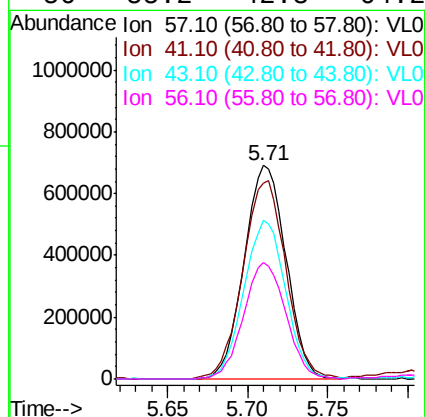
Manual Integrations
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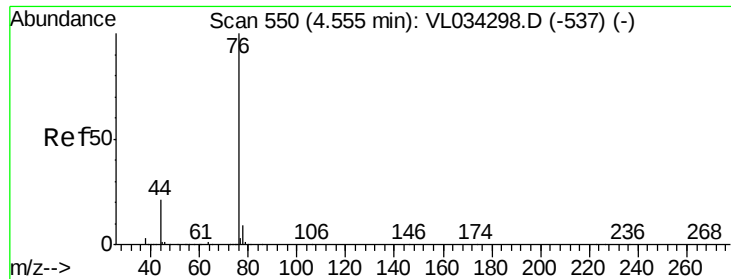
MMDadoda
10/22/2019 2:55:53 PM



#26
Hexane
Concen: 13.441 ppbv
RT: 5.71 min Scan# 909
Delta R.T. -0.00 min
Lab File: VL034330.D
Acq: 18 Oct 2019 00:01

Tgt Ion:	57	Resp:	1234973
Ion	Ratio	Lower	Upper
57	100		
41	95.7	76.5	114.7
43	73.7	188.5	282.7#
56	55.2	42.8	64.2





#27

Carbon Disulfide

Concen: 2.460 ppbv

RT: 4.56 min Scan# 550

Delta R.T. -0.00 min

Lab File: VL034330.D

Acq: 18 Oct 2019 00:01

Instrument :

MSVOA_L

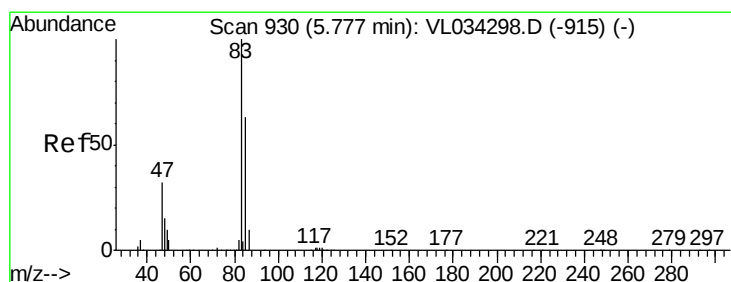
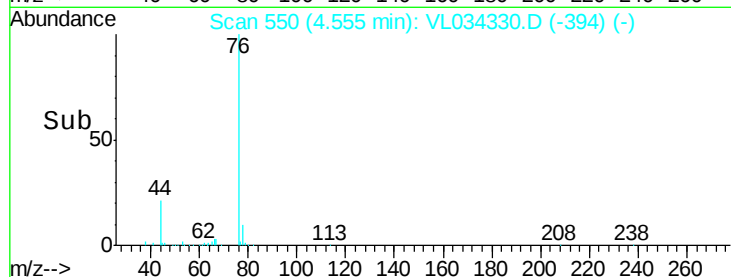
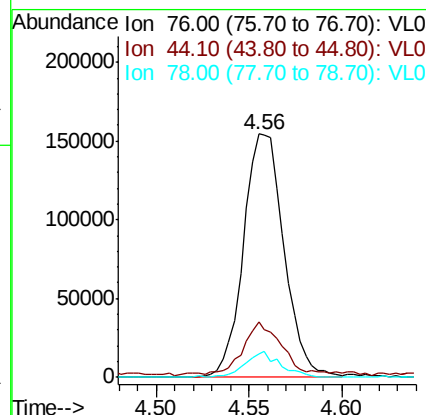
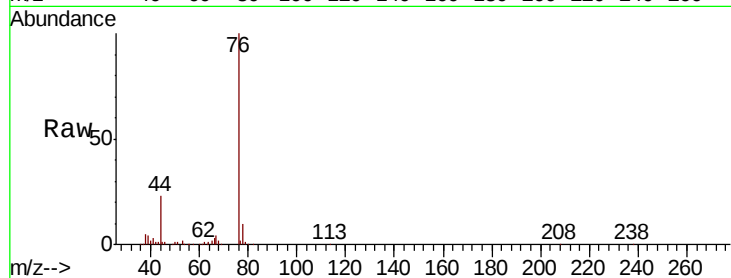
ClientSampled :

SV3

Tot Ion:	76	Resp:	234685
Ion Ratio	Lower	Upper	
76	100		
44	21.5	17.3	25.9
78	9.3	7.8	11.6

Manual Integrations
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MMDadoda
10/22/2019 2:55:53 PM



#29

Chloroform

Concen: 0.898 ppbv

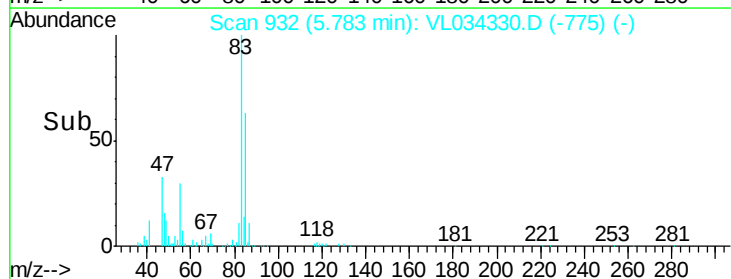
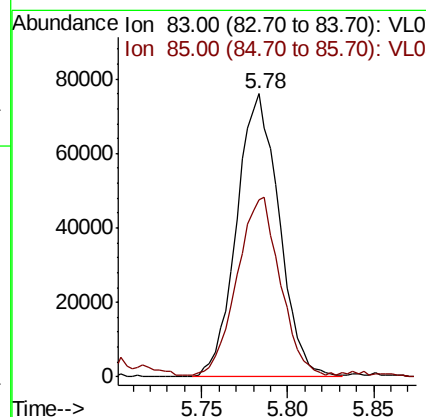
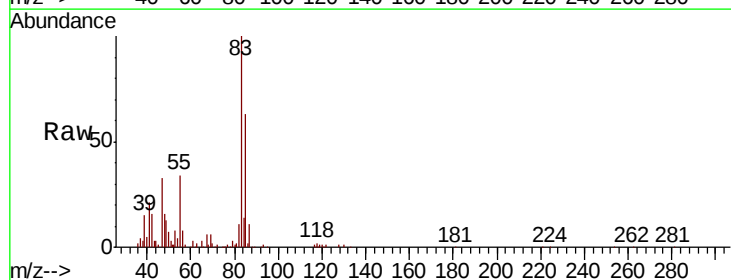
RT: 5.78 min Scan# 932

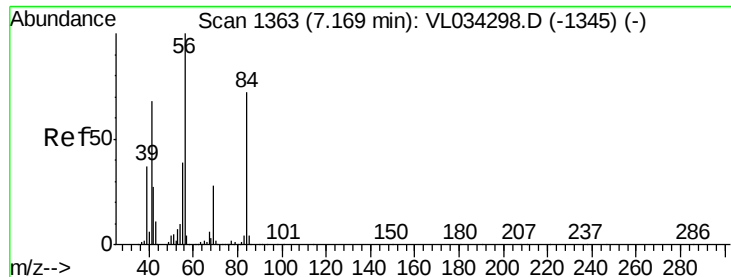
Delta R.T. 0.01 min

Lab File: VL034330.D

Acq: 18 Oct 2019 00:01

Tgt Ion:	83	Resp:	130511
Ion Ratio	Lower	Upper	
83	100		
85	61.8	50.5	75.7





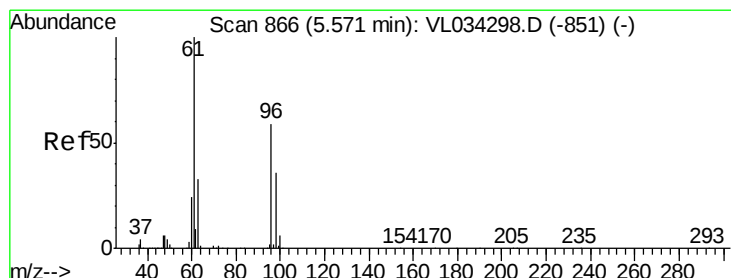
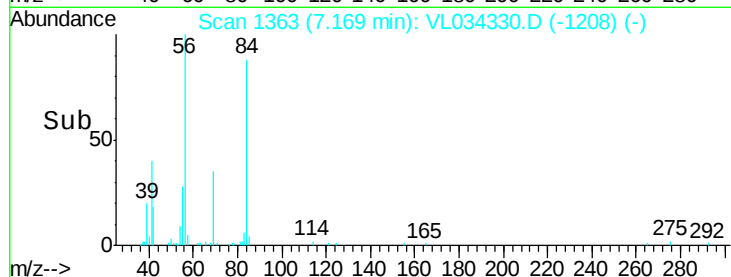
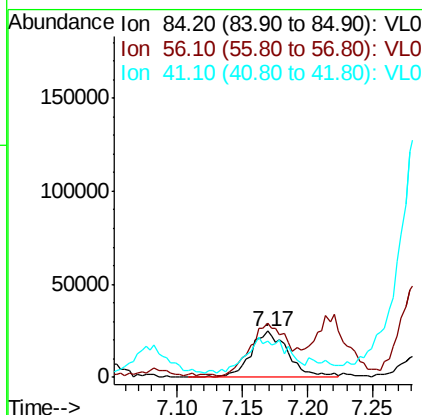
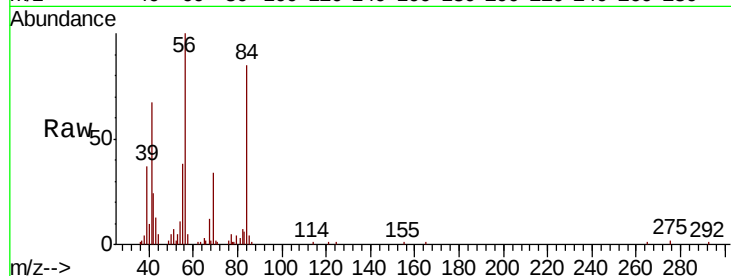
#30
Cyclohexane
Concen: 0.737 ppbv m
RT: 7.17 min Scan# 1363
Delta R.T. -0.00 min
Lab File: VL034330.D
Acq: 18 Oct 2019 00:01

Instrument :
MSVOA_L
ClientSampled :
SV3

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	119.4	179.0#
41	0.0	78.7	118.1#

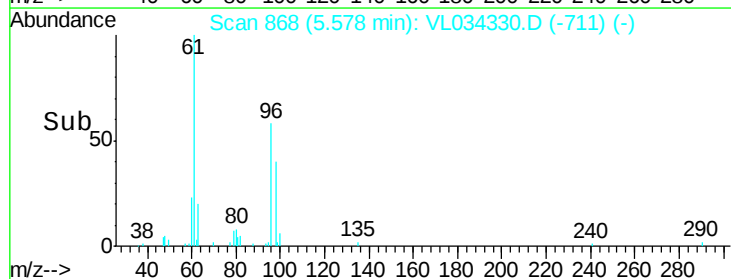
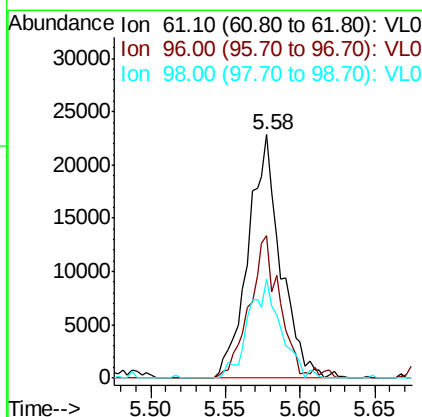
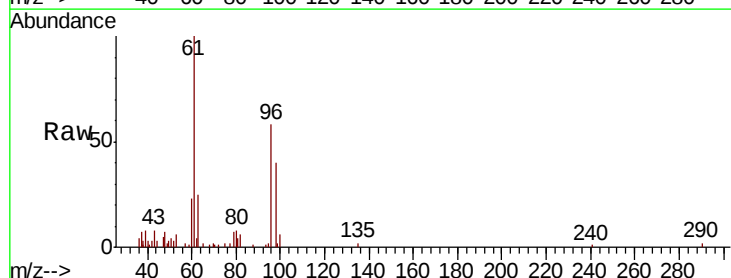
Manual Integrations
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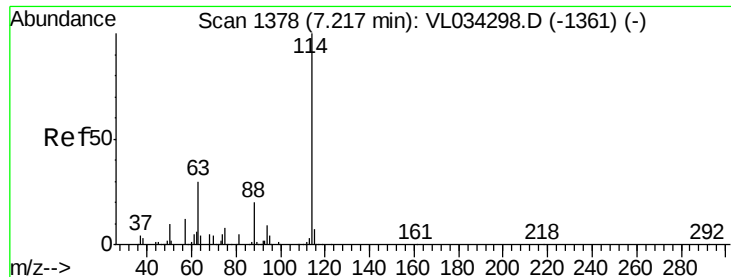
MMDadoda
10/22/2019 2:55:53 PM



#31
cis-1,2-Dichloroethene
Concen: 0.368 ppbv m
RT: 5.58 min Scan# 868
Delta R.T. 0.01 min
Lab File: VL034330.D
Acq: 18 Oct 2019 00:01

Tgt Ion	Ratio	Lower	Upper
61	100		
96	58.3	47.5	71.3
98	40.4	28.8	43.2





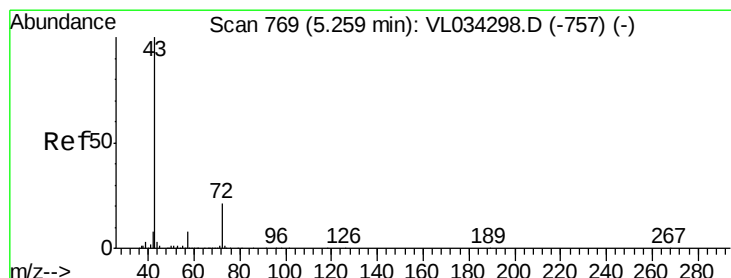
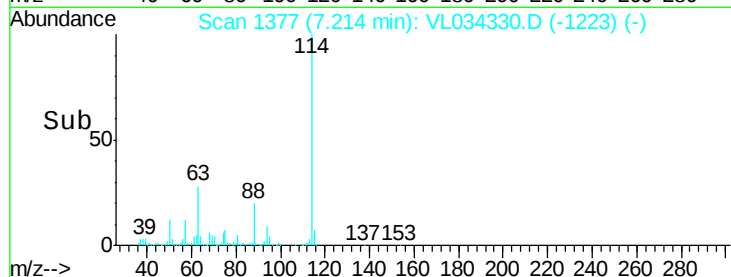
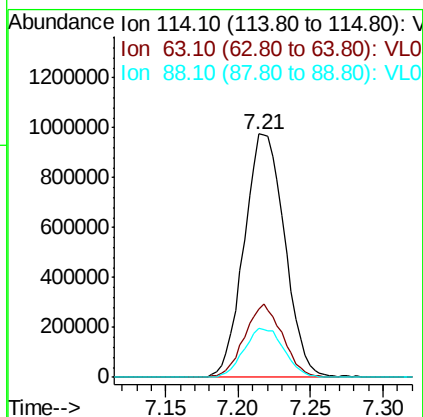
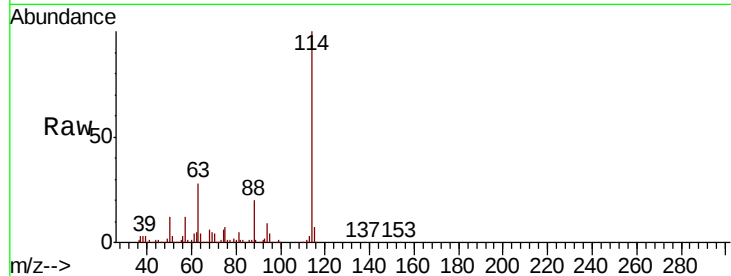
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1377
 Delta R.T. -0.00 min
 Lab File: VL034330.D
 Acq: 18 Oct 2019 00:01

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.2	25.2	37.8
88	20.0	16.0	24.0

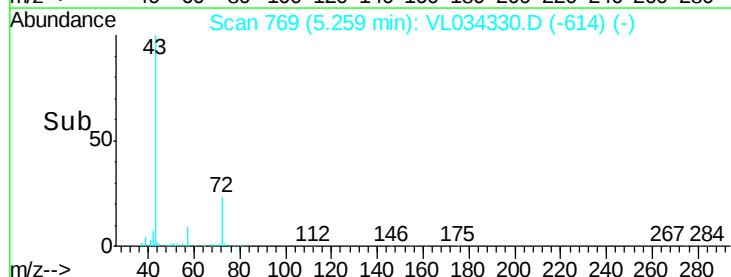
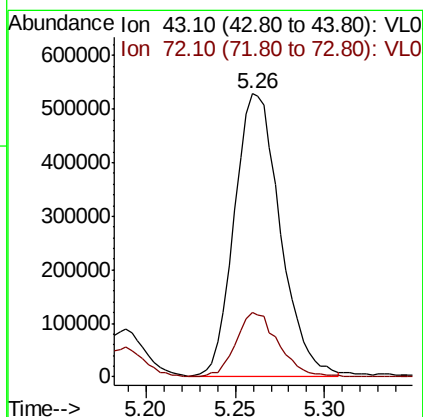
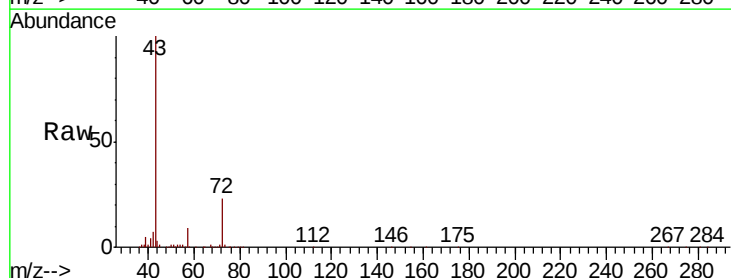
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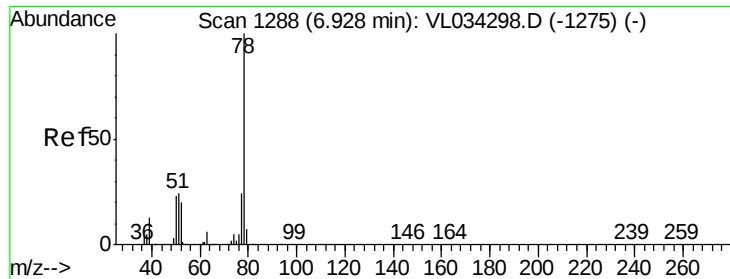
MMDadoda
 10/22/2019 2:55:53 PM



#34
 2-Butanone
 Concen: 6.063 ppbv
 RT: 5.26 min Scan# 769
 Delta R.T. -0.00 min
 Lab File: VL034330.D
 Acq: 18 Oct 2019 00:01

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.6	16.3	24.5





#36

Benzene

Concen: 6.017 ppbv

RT: 6.93 min Scan# 1289

Delta R.T. 0.00 min

Lab File: VL034330.D

Acq: 18 Oct 2019 00:01

Instrument :

MSVOA_L

ClientSampleId :

SV3

Tot Ion: 78 Resp: 1095434

Ion Ratio Lower Upper

78 100

77 22.5 19.0 28.4

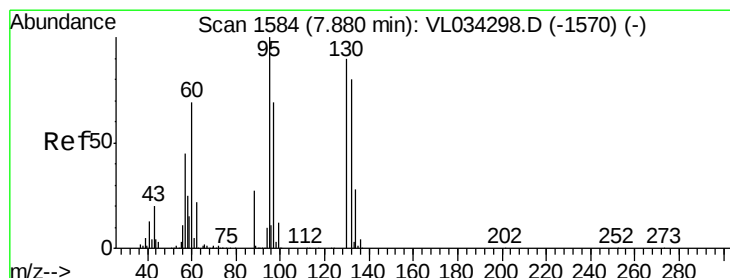
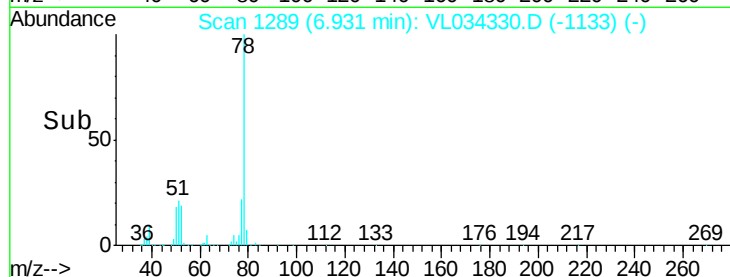
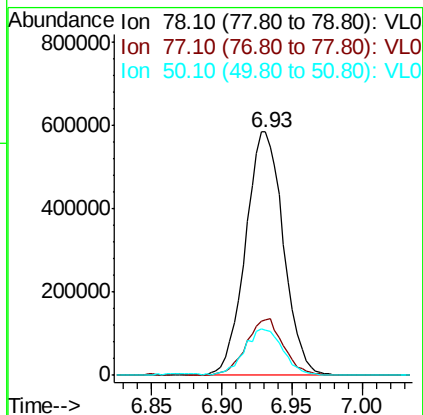
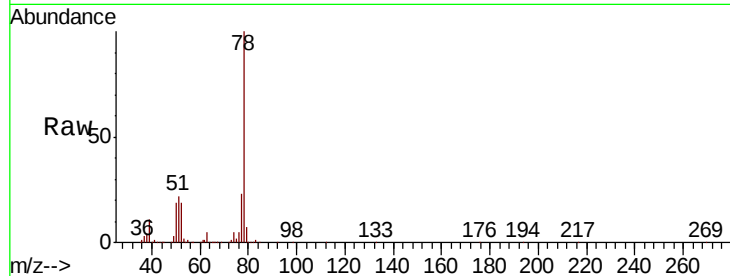
50 18.4 18.6 27.8#

Manual Integrations

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MMDadoda

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#38

Trichloroethene

Concen: 2.460 ppbv

RT: 7.88 min Scan# 1584

Delta R.T. -0.00 min

Lab File: VL034330.D

Acq: 18 Oct 2019 00:01

Tgt Ion:130 Resp: 179728

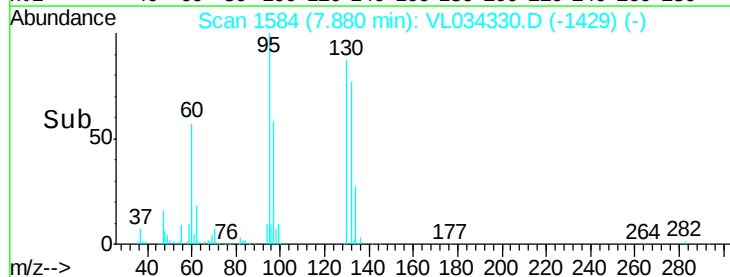
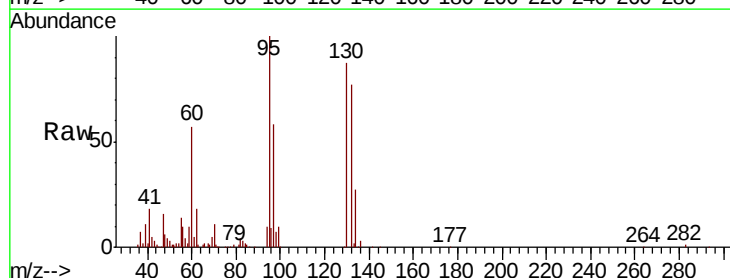
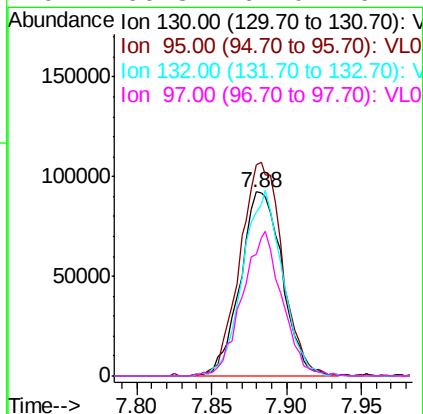
Ion Ratio Lower Upper

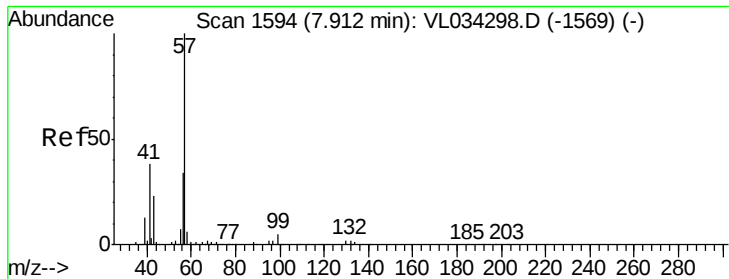
130 100

95 114.9 88.6 132.8

132 88.8 71.2 106.8

97 66.3 61.0 91.4





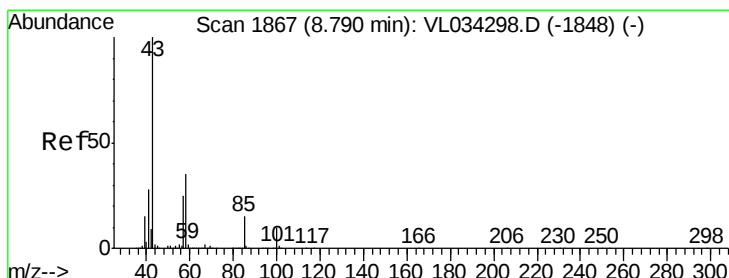
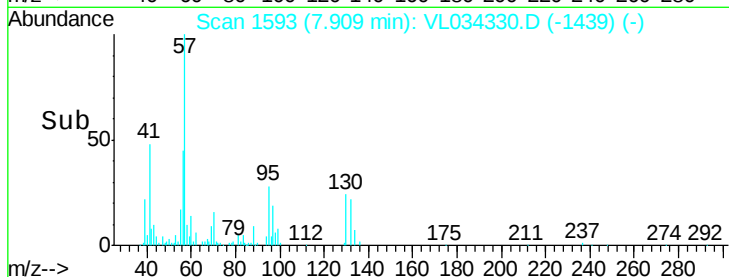
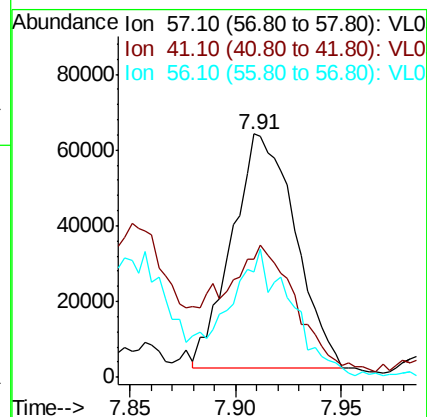
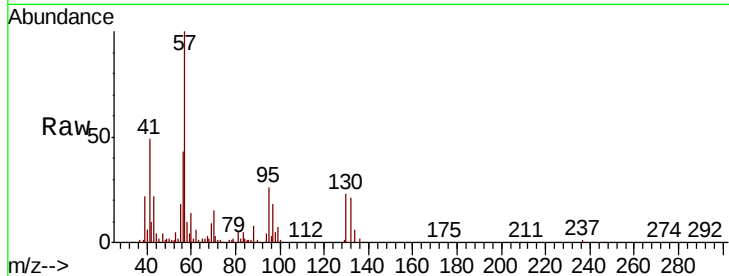
#44
 2,2,4-Trimethylpentane
 Concen: 0.384 ppbv
 RT: 7.91 min Scan# 1593
 Delta R.T. -0.00 min
 Lab File: VL034330.D
 Acq: 18 Oct 2019 00:01

Instrument :
 MSVOA_L
 ClientSampleID :
 SV3

Tot Ion	Ratio	Lower	Upper
57	100		
41	67.4	29.3	43.9#
56	53.5	25.3	37.9#

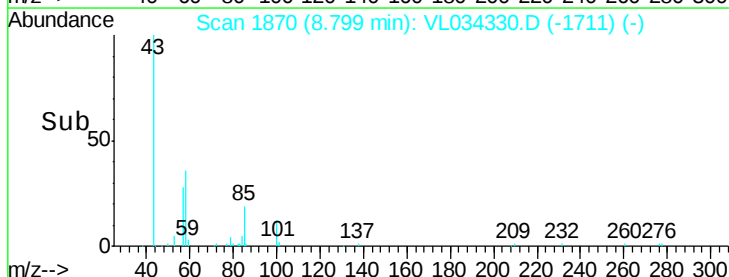
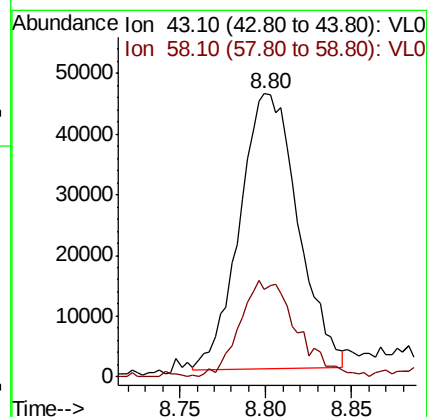
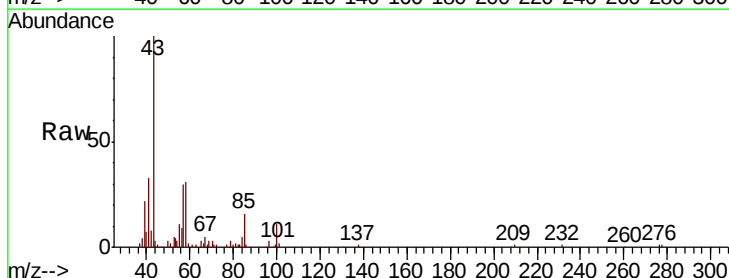
Manual Integrations
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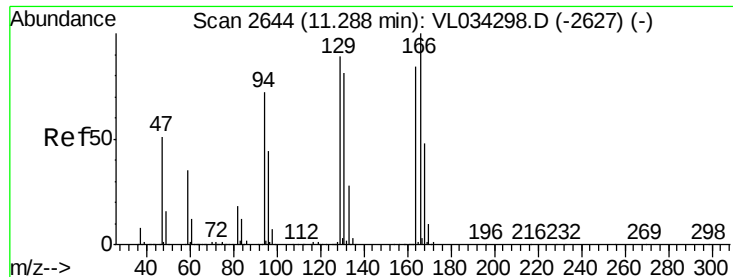
MMDadoda
 10/22/2019 2:55:53 PM



#50
 4-Methyl-2-Pentanone
 Concen: 0.484 ppbv
 RT: 8.80 min Scan# 1870
 Delta R.T. 0.01 min
 Lab File: VL034330.D
 Acq: 18 Oct 2019 00:01

Tgt Ion	Ratio	Lower	Upper
43	100		
58	34.8	27.6	41.4





#52

Tetrachloroethene

Concen: 187.228 ppbv

RT: 11.33 min Scan# 2657

Delta R.T. 0.04 min

Lab File: VL034330.D

Acq: 18 Oct 2019 00:01

Instrument :

MSVOA_L

ClientSampled :

SV3

Tot Ion:164 Resp:13361254

Ion Ratio Lower Upper

164 100

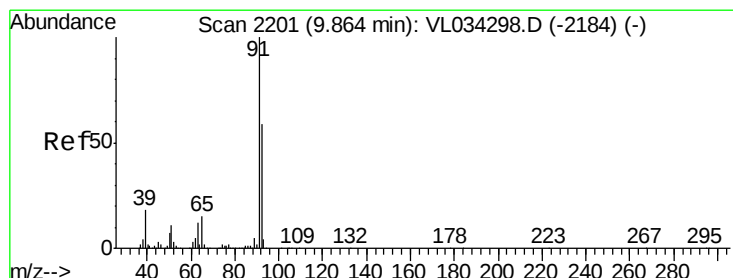
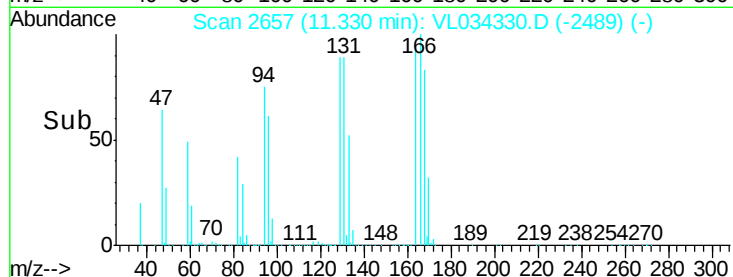
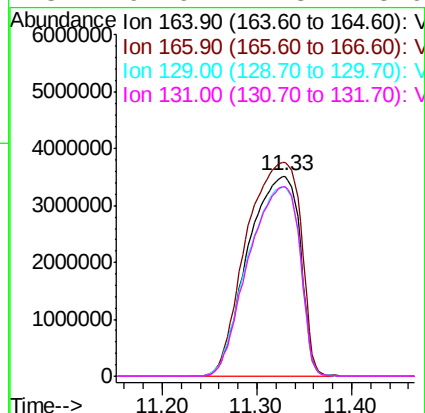
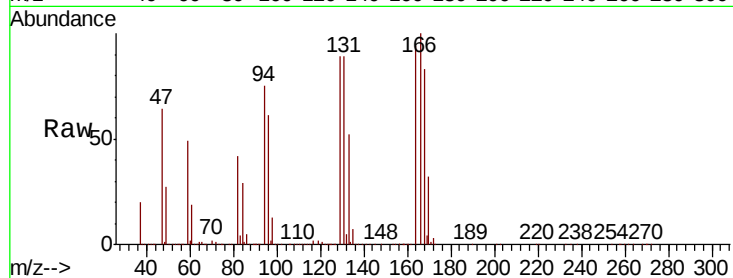
166 106.9 95.3 142.9

129 94.8 84.5 126.7

131 94.9 77.3 115.9

Manual Integrations
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MMDadoda
10/22/2019 2:55:53 PM



#53

Toluene

Concen: 9.432 ppbv

RT: 9.86 min Scan# 2201

Delta R.T. -0.00 min

Lab File: VL034330.D

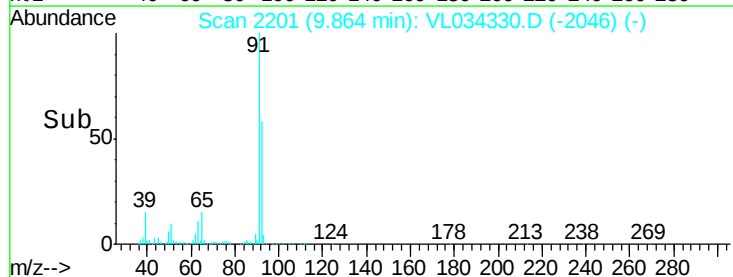
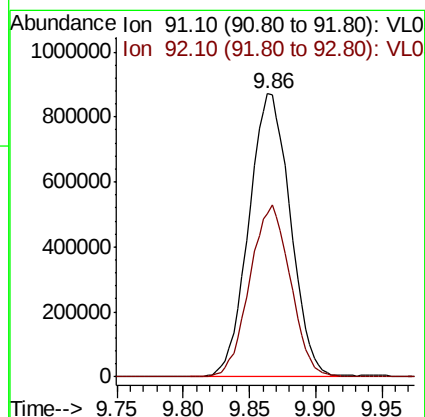
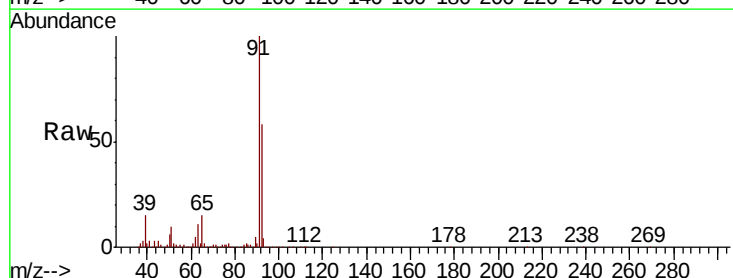
Acq: 18 Oct 2019 00:01

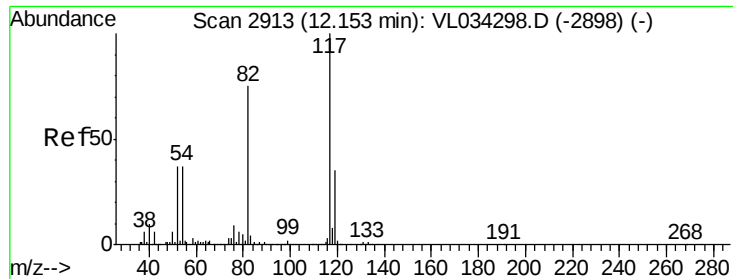
Tgt Ion: 91 Resp: 1895154

Ion Ratio Lower Upper

91 100

92 59.4 48.4 72.6





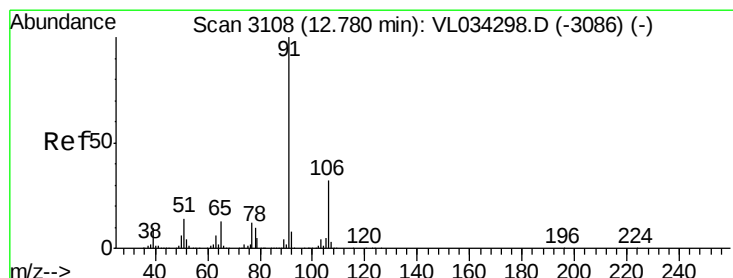
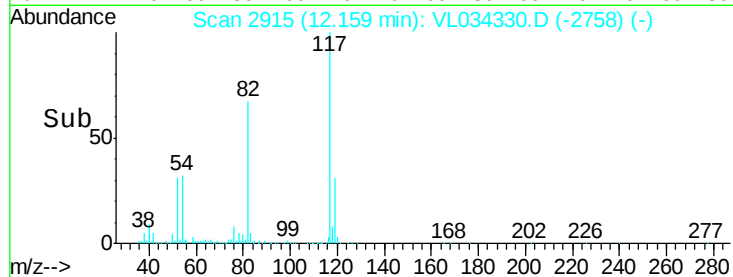
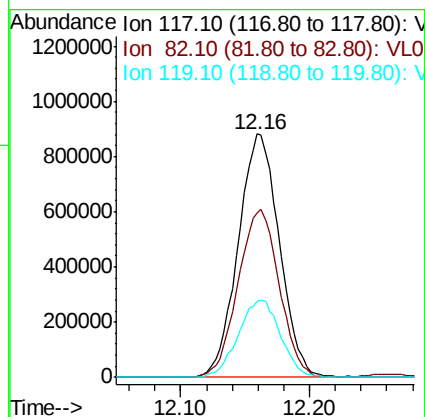
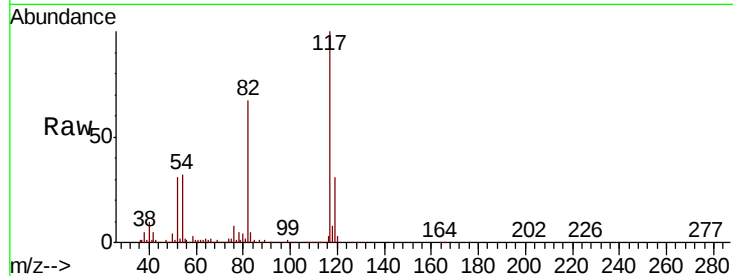
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.16 min Scan# 2915
Delta R.T. 0.01 min
Lab File: VL034330.D
Acq: 18 Oct 2019 00:01

Instrument :
MSVOA_L
ClientSampled :
SV3

Tot Ion	Ratio	Lower	Upper
117	100		
82	69.0	55.5	83.3
119	32.6	26.5	39.7

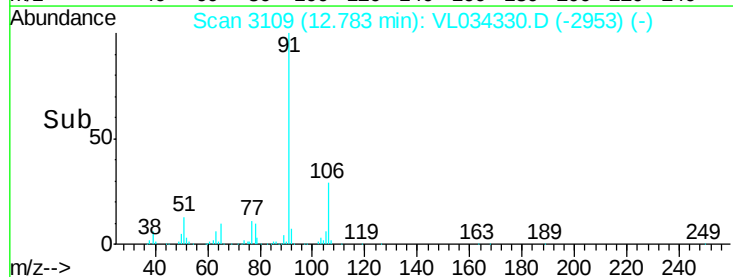
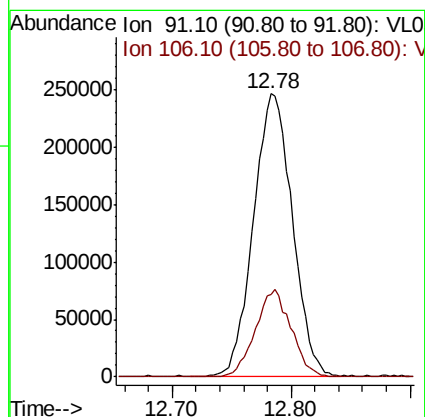
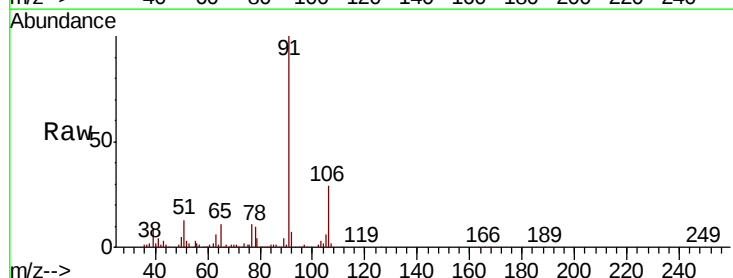
Manual Integrations
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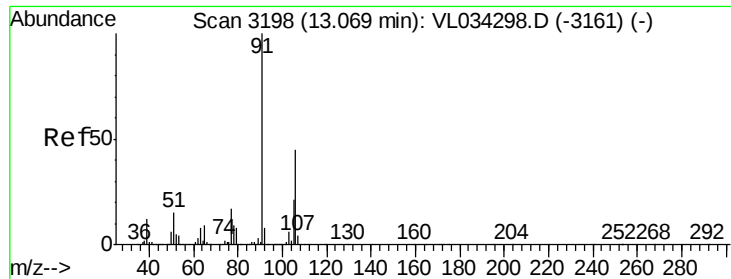
MMDadoda
10/22/2019 2:55:53 PM



#58
Ethyl Benzene
Concen: 2.035 ppbv
RT: 12.78 min Scan# 3109
Delta R.T. 0.00 min
Lab File: VL034330.D
Acq: 18 Oct 2019 00:01

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.2	25.3	37.9





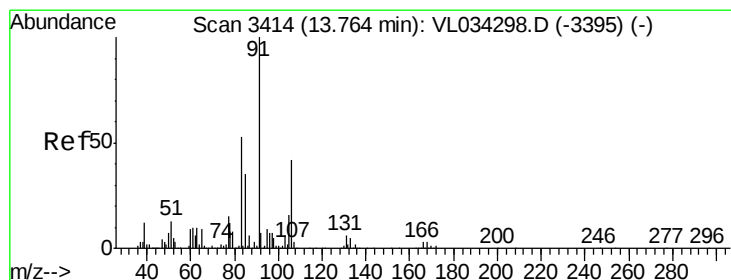
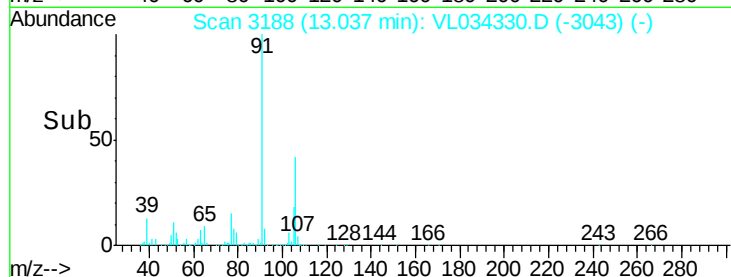
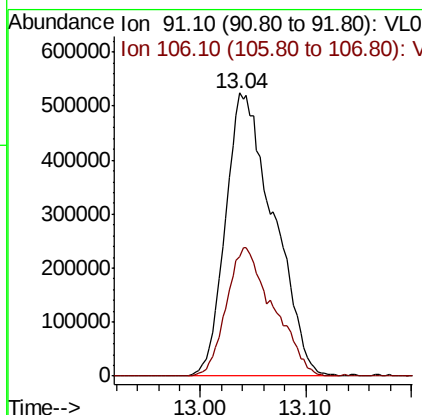
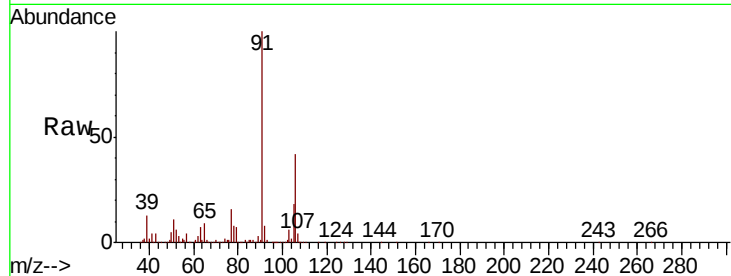
#59
m/p-Xylene
Concen: 6.940 ppbv
RT: 13.04 min Scan# 3188
Delta R.T. -0.03 min
Lab File: VL034330.D
Acq: 18 Oct 2019 00:01

Instrument :
MSVOA_L
ClientSampled :
SV3

Tot Ion: 91 Resp: 1646088
Ion Ratio Lower Upper
91 100
106 44.4 35.4 53.2

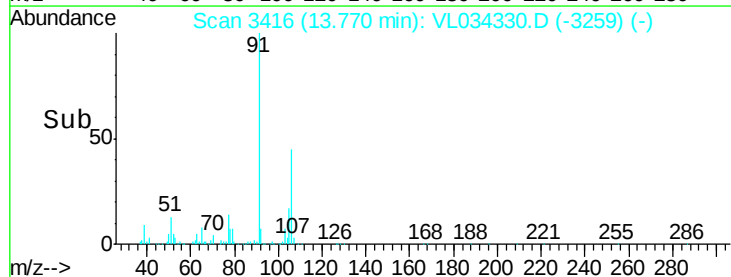
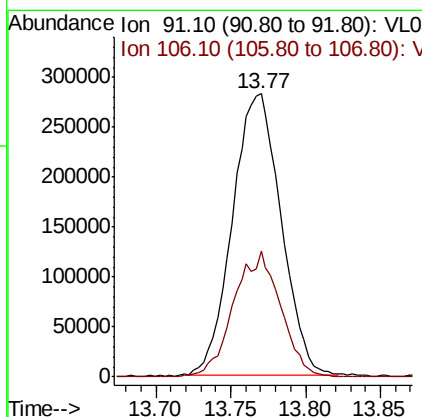
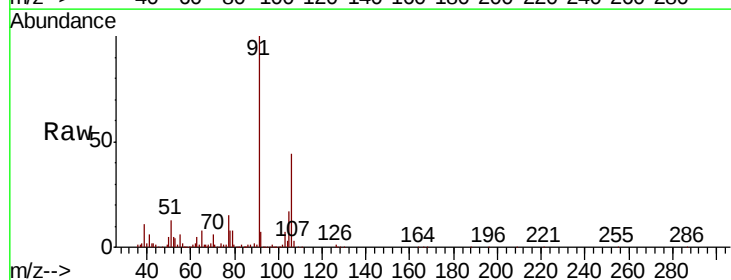
Manual Integrations
APPROVED

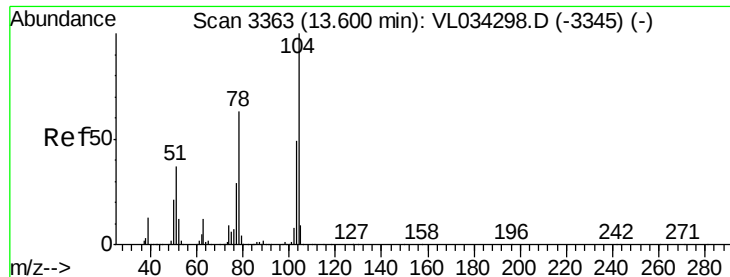
MMDadoda
10/22/2019 2:55:53 PM



#60
o-Xylene
Concen: 2.697 ppbv
RT: 13.77 min Scan# 3416
Delta R.T. 0.01 min
Lab File: VL034330.D
Acq: 18 Oct 2019 00:01

Tgt Ion: 91 Resp: 636887
Ion Ratio Lower Upper
91 100
106 43.1 21.6 64.6





#61

Stvrene

Concen: 0.427 ppbv

RT: 13.60 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VL034330.D

Acq: 18 Oct 2019 00:01

Instrument :

MSVOA_L

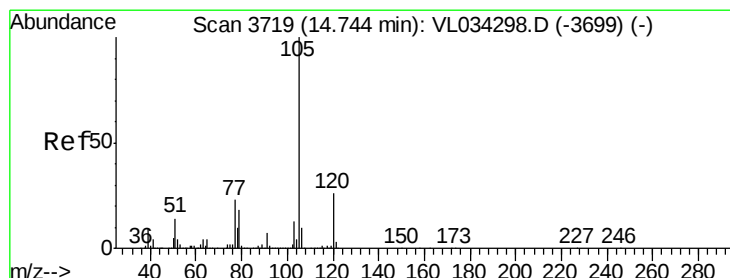
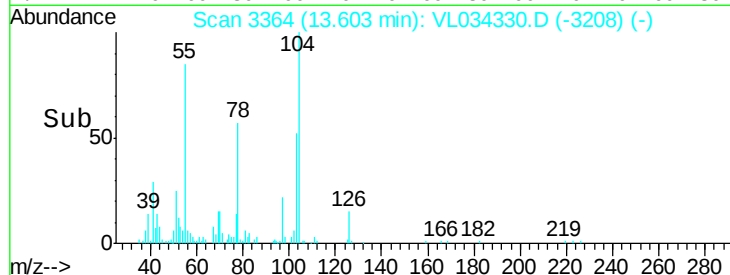
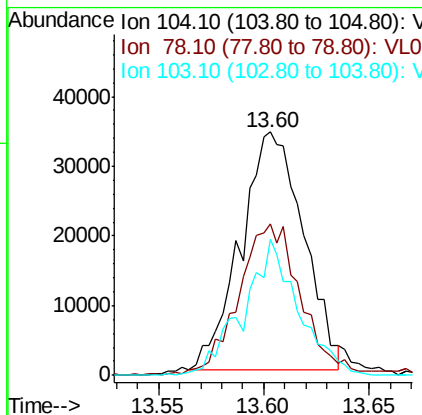
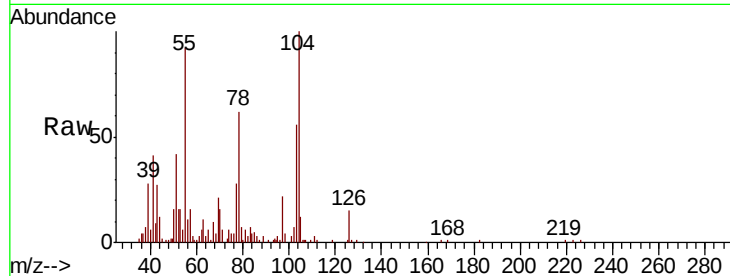
ClientSampled :

SV3

Tot Ion:	104	Resp:	70942
Ion Ratio	Lower	Upper	
104	100		
78	63.3	47.8	71.8
103	49.9	39.0	58.6

Manual Integrations
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#62

Isopropylbenzene

Concen: 0.180 ppbv m

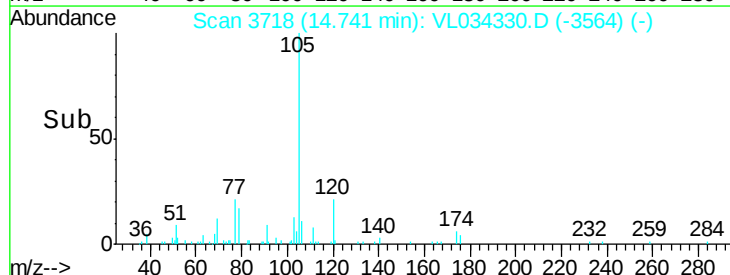
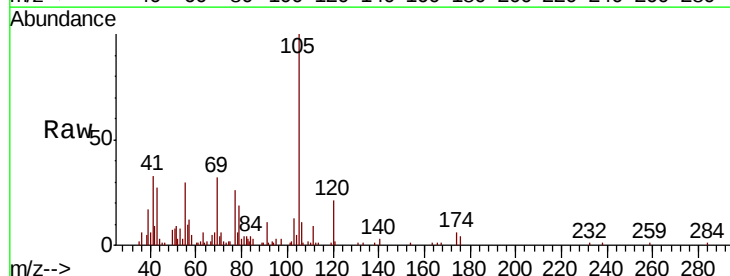
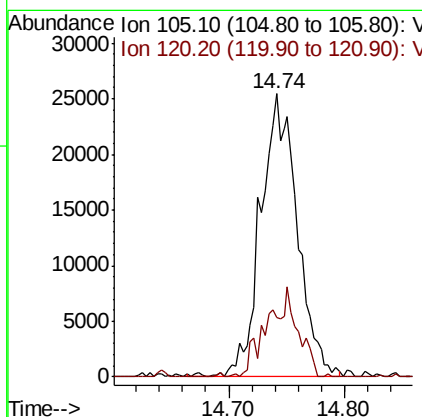
RT: 14.74 min Scan# 3718

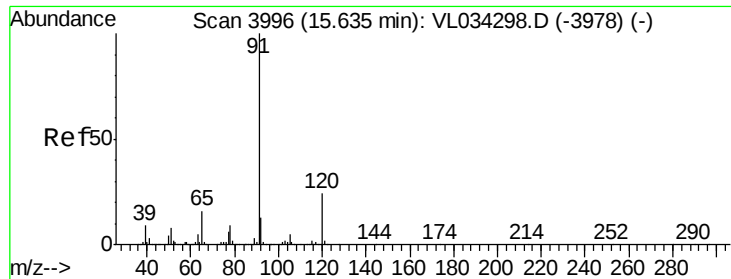
Delta R.T. -0.00 min

Lab File: VL034330.D

Acq: 18 Oct 2019 00:01

Tgt Ion:	105	Resp:	55979
Ion Ratio	Lower	Upper	
105	100		
120	27.3	20.8	31.2





#64

n-propylbenzene

Concen: 0.623 ppbv m

RT: 15.64 min Scan# 3997

Delta R.T. 0.00 min

Lab File: VL034330.D

Acq: 18 Oct 2019 00:01

Instrument :

MSVOA_L

ClientSampled :

SV3

Tot Ion:120 Resp: 49840

Ion Ratio Lower Upper

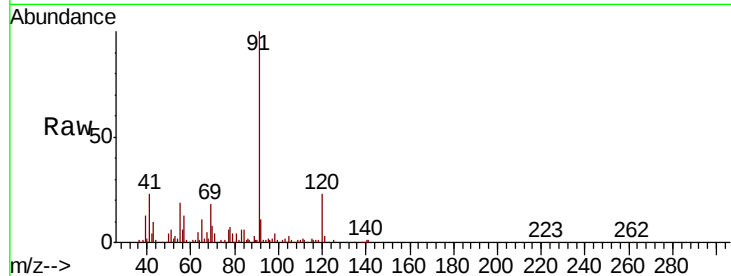
120 100

91 511.7 374.9 562.3

Manual Integrations
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Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

120000

100000

80000

60000

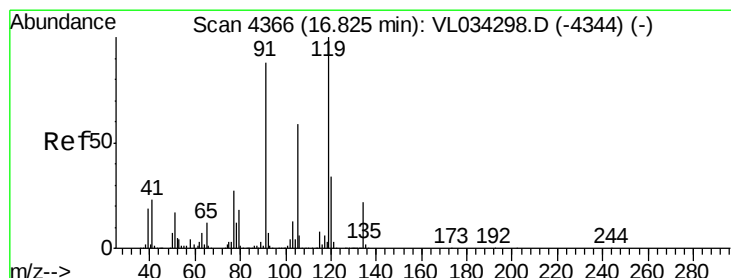
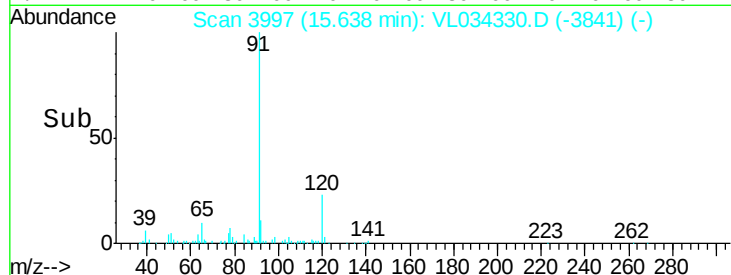
40000

20000

0

15.50 15.60 15.70

Time-->



#65

tert-Butylbenzene

Concen: 0.361 ppbv m

RT: 16.85 min Scan# 4373

Delta R.T. 0.02 min

Lab File: VL034330.D

Acq: 18 Oct 2019 00:01

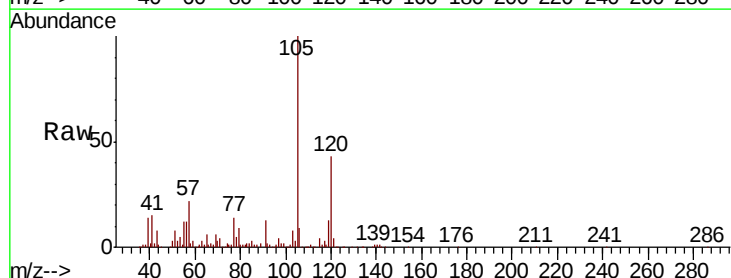
Tgt Ion:119 Resp: 99712

Ion Ratio Lower Upper

119 100

91 120.4 71.4 107.0#

134 0.3 15.9 23.9#



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V

60000

50000

40000

30000

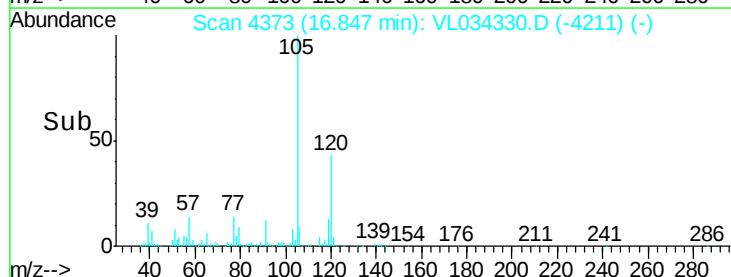
20000

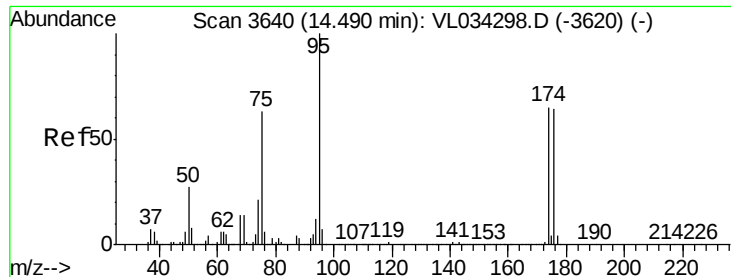
10000

0

16.70 16.80 16.90

Time-->





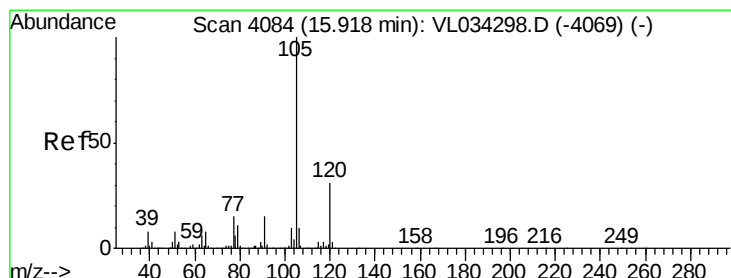
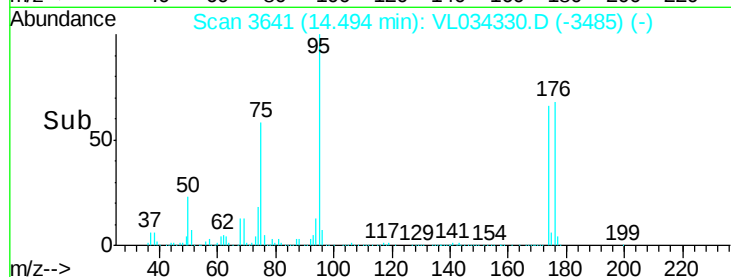
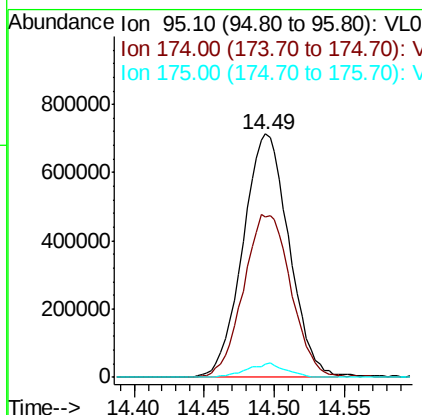
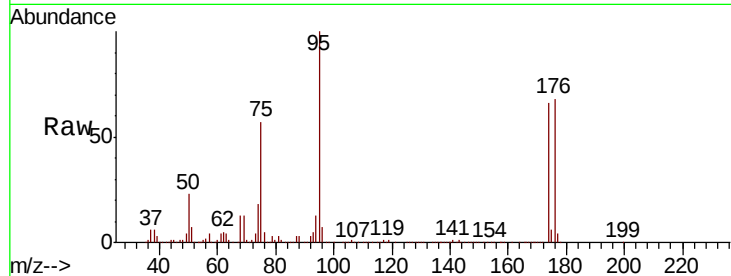
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.789 ppbv
 RT: 14.49 min Scan# 3641
 Delta R.T. 0.00 min
 Lab File: VL034330.D
 Acq: 18 Oct 2019 00:01

Instrument :
 MSVOA_L
 ClientSampled :
 SV3

Tot Ion: 95 Resp: 1623480
 Ion Ratio Lower Upper
 95 100
 174 69.4 52.6 78.8
 175 5.1 3.8 5.6

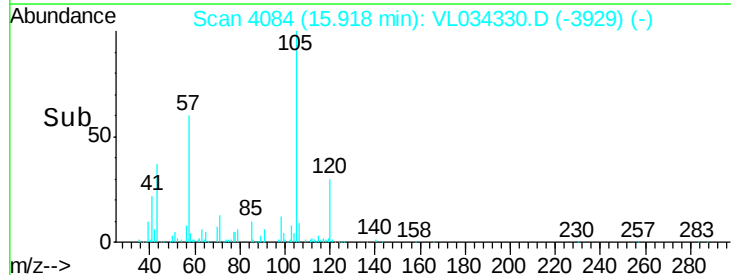
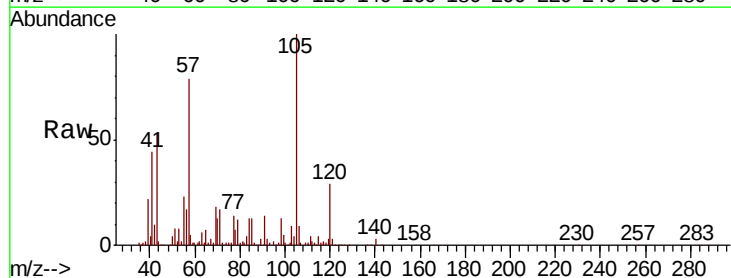
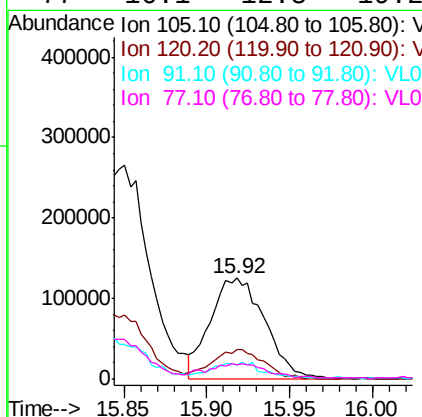
Manual Integrations
 APPROVED

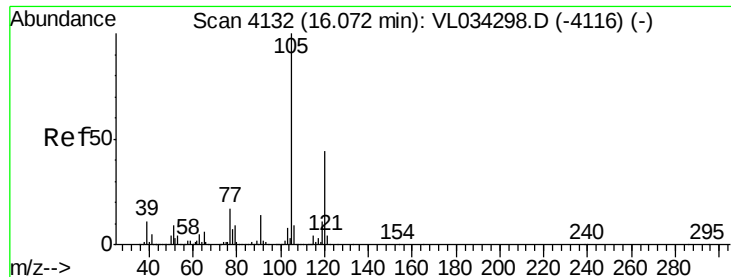
MMDadoda
 10/22/2019 2:55:53 PM



#72
 4-Ethyltoluene
 Concen: 1.066 ppbv
 RT: 15.92 min Scan# 4084
 Delta R.T. -0.00 min
 Lab File: VL034330.D
 Acq: 18 Oct 2019 00:01

Tgt Ion: 105 Resp: 283108
 Ion Ratio Lower Upper
 105 100
 120 28.3 23.8 35.8
 91 15.4 11.2 16.8
 77 16.1 12.8 19.2





#73

1,3,5-Trimethylbenzene

Concen: 0.889 ppbv

RT: 16.07 min Scan# 4132

Delta R.T. -0.00 min

Lab File: VL034330.D

Acq: 18 Oct 2019 00:01

Instrument :

MSVOA_L

ClientSampled :

SV3

Tot Ion:105 Resp: 233868

Ion Ratio Lower Upper

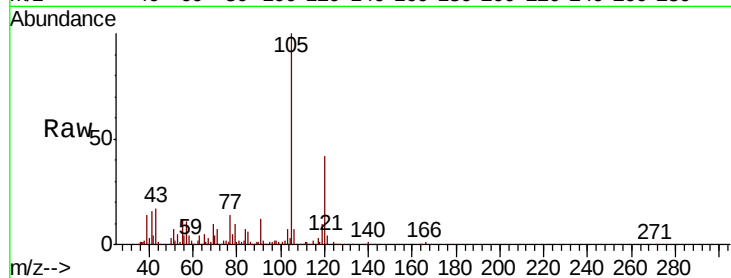
105 100

120 42.6 35.2 52.8

Manual Integrations
APPROVED

MMDadoda

10/22/2019 2:55:53 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.07

120000

100000

80000

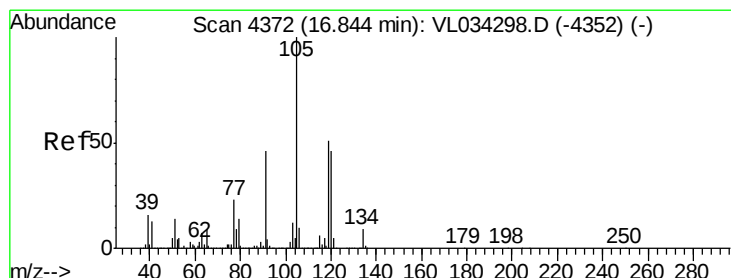
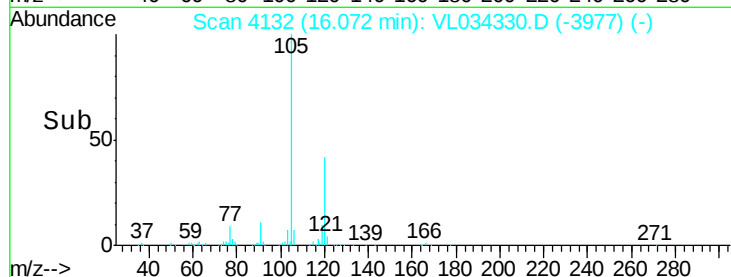
60000

40000

20000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 3.314 ppbv

RT: 16.85 min Scan# 4373

Delta R.T. 0.00 min

Lab File: VL034330.D

Acq: 18 Oct 2019 00:01

Tgt Ion:105 Resp: 909228

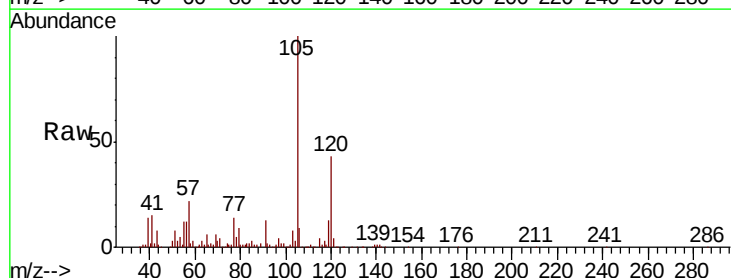
Ion Ratio Lower Upper

105 100

120 42.6 37.0 55.6

91 12.4 38.2 57.2#

77 12.9 19.0 28.4#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

600000

500000

400000

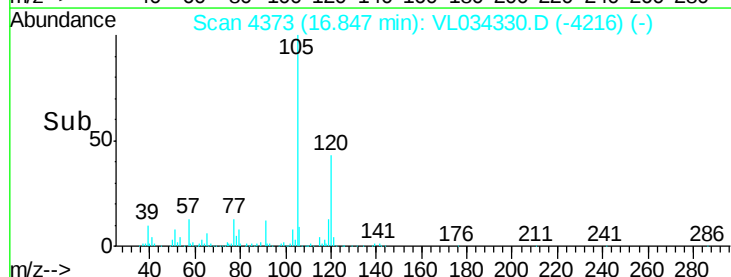
300000

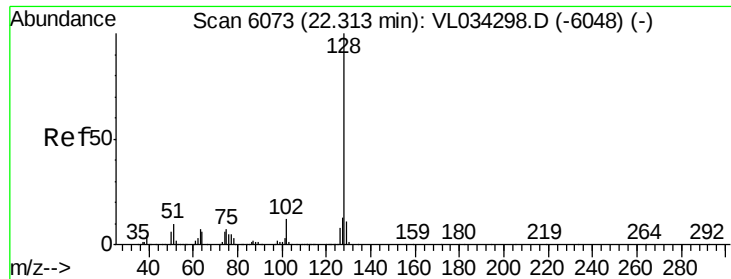
200000

100000

0

Time-->





#79

Naphthalene

Concen: 0.349 ppbv m

RT: 22.32 min Scan# 6075

Delta R.T. 0.01 min

Lab File: VL034330.D

Acq: 18 Oct 2019 00:01

Instrument :

MSVOA_L

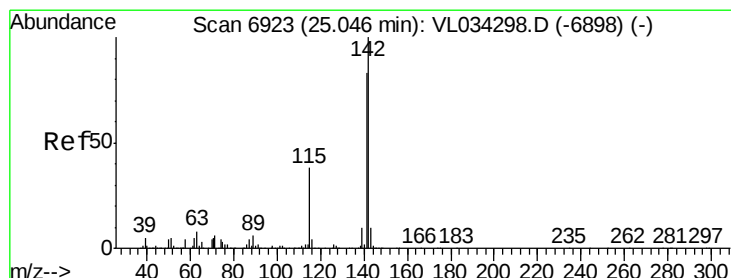
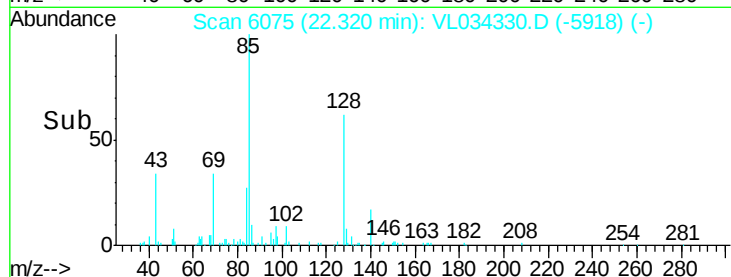
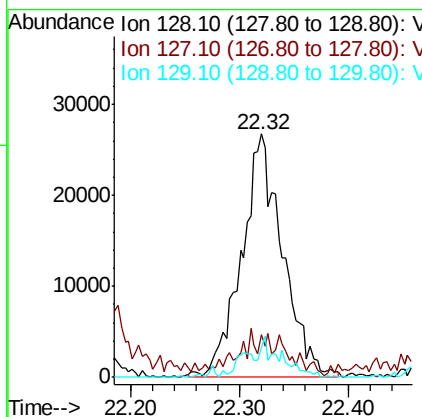
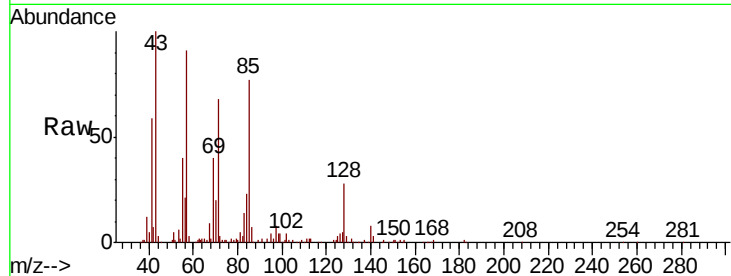
ClientSampled :

SV3

Tot Ion:	128	Resp:	69871
Ion Ratio	Lower	Upper	
128	100		
127	17.6	10.2	15.4#
129	12.5	8.9	13.3

Manual Integrations
APPROVED

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10/22/2019 2:55:53 PM



#80

Naphthalene, 2-methyl-

Concen: 0.100 ppbv

RT: 25.04 min Scan# 6920

Delta R.T. -0.01 min

Lab File: VL034330.D

Acq: 18 Oct 2019 00:01

Tgt Ion:	142	Resp:	5809
Ion Ratio	Lower	Upper	
142	100		
141	129.0	65.7	98.5#
115	60.6	30.9	46.3#

