

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101619\
 Data File : VL034314.D
 Acq On : 17 Oct 2019 9:34
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

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 10/18/2019 3:05:17 PM

Quant Time: Oct 17 14:52:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 17 14:52:35 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	1117928	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.23	114	2171847	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	2439906	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.50	95	1971962	9.54	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.40%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	1303791	6.765	ppbv 100
3) Chlorodifluoromethane	2.97	51	1246391	9.512	ppbv 99
4) Chloromethane	3.13	50	738845	9.533	ppbv 96
5) Vinyl Chloride	3.25	62	691991	9.363	ppbv 100
6) Bromomethane	3.47	94	364275	10.066	ppbv 98
7) Chloroethane	3.55	64	255093	9.807	ppbv 100
8) Dichlorotetrafluoroethane	3.18	85	1560821	9.346	ppbv 99
9) Propene	2.99	41	553767	9.534	ppbv 97
10) Heptane	8.18	43	1545307	10.365	ppbv 99
11) Trichlorofluoromethane	3.95	101	1762359	9.631	ppbv 97
12) 1,1,2-Trichlorotrifluoroet	4.49	101	1181750	9.858	ppbv 99
13) Ethanol	3.60	45	133258	10.247	ppbv 96
14) Bromoethene	3.74	108	481822	10.208	ppbv 97
15) Acetone	3.85	43	1340165	8.381	ppbv 100
16) 1,3-Butadiene	3.32	39	646163	9.945	ppbv 99
17) tert-Butyl alcohol	4.30	59	1195269	11.712	ppbv 99
18) 1,1-Dichloroethene	4.29	96	526718	10.035	ppbv 95
19) Isopropyl Alcohol	3.97	45	1029703	11.543	ppbv 100
20) Methylene Chloride	4.35	84	470566	8.140	ppbv 94
21) Allyl Chloride	4.42	41	922946	10.441	ppbv 99
22) trans-1,2-Dichloroethene	4.90	96	541778	10.348	ppbv 91
23) Vinyl Acetate	5.10	43	2040916	10.220	ppbv 99
24) 1,1-Dichloroethane	5.03	63	1435434	9.685	ppbv 99
25) Ethyl Acetate	5.71	43	2604281	9.647	ppbv 99
26) Hexane	5.72	57	1135820	9.871	ppbv 97
27) Carbon Disulfide	4.56	76	1376805	11.526	ppbv 98
28) Methyl tert-Butyl Ether	5.05	73	1741776	10.002	ppbv 99
29) Chloroform	5.79	83	1770049	9.725	ppbv 98
30) Cyclohexane	7.18	84	865747	10.231	ppbv 99
31) cis-1,2-Dichloroethene	5.58	61	1193866	10.224	ppbv 97
32) 1,1,1-Trichloroethane	6.56	97	1739392	9.827	ppbv 99
34) 2-Butanone	5.27	43	1734839	9.773	ppbv 100
35) Carbon Tetrachloride	7.06	117	1858229	9.823	ppbv 99
36) Benzene	6.94	78	2058696	9.879	ppbv 99
37) 1,2-Dichloroethane	6.35	62	1513471	9.745	ppbv 100
38) Trichloroethene	7.89	130	815781	9.756	ppbv 96
39) 1,2-Dichloropropane	7.67	63	874952	9.751	ppbv 96
40) 1,4-Dioxane	7.88	88	333854	10.588	ppbv 98
41) Tetrahydrofuran	6.08	42	986532	10.014	ppbv 98
42) Bromodichloromethane	7.85	83	1946206	10.231	ppbv 100
43) Methyl Methacrylate	8.07	69	914866	10.615	ppbv 97

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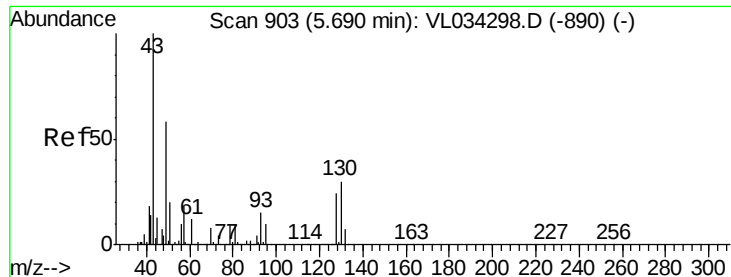
Manual Integrations
 APPROVED

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Quant Time: Oct 17 14:52:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.92	57	3746832	9.715	ppbv	99
45) t-1,3-Dichloropropene	9.35	75	1225288	11.669	ppbv	99
46) cis-1,3-Dichloropropene	8.76	75	1369503	11.352	ppbv	98
47) 1,1,2-Trichloroethane	9.54	97	874210	9.619	ppbv	98
48) Dibromochloromethane	10.37	129	1608272	10.787	ppbv	100
49) Bromoform	13.13	173	1445495	10.942	ppbv	100
50) 4-Methyl-2-Pentanone	8.80	43	2599378	10.228	ppbv	99
51) 2-Hexanone	10.20	43	2193265	10.528	ppbv	100
52) Tetrachloroethene	11.30	164	786987m	9.635	ppbv	
53) Toluene	9.87	91	2370414	10.308	ppbv	98
54) 1,2-Dibromoethane	10.68	107	1357134	10.075	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.21	131	1062342	9.448	ppbv	98
57) Chlorobenzene	12.22	112	1838330	9.031	ppbv	100
58) Ethyl Benzene	12.79	91	3294954	9.661	ppbv	96
59) m/p-Xylene	13.08	91	5455393m	18.461	ppbv	
60) o-Xylene	13.78	91	2764454	9.394	ppbv	100
61) Styrene	13.61	104	2069789	9.991	ppbv	99
62) Isopropylbenzene	14.75	105	3573389	9.199	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.77	83	1913023	8.090	ppbv	99
64) n-propylbenzene	15.65	120	946670	9.496	ppbv	98
65) tert-Butylbenzene	16.84	119	3130067	9.091	ppbv	99
66) Benzyl Chloride	17.09	91	1489216	10.952	ppbv	100
67) sec-Butylbenzene	17.38	105	4366669	9.013	ppbv	99
69) p-Isopropyltoluene	17.74	119	3626480	9.181	ppbv	99
70) n-Butylbenzene	18.64	91	3872969	9.012	ppbv	99
71) 2-Chlorotoluene	15.55	91	2836636	9.418	ppbv	100
72) 4-Ethyltoluene	15.93	105	3105400	9.388	ppbv	99
73) 1,3,5-Trimethylbenzene	16.09	105	3040494	9.277	ppbv	96
74) 1,2,4-Trimethylbenzene	16.85	105	3103087	9.079	ppbv	96
75) 1,3-Dichlorobenzene	17.09	146	1770936	8.630	ppbv	100
76) 1,4-Dichlorobenzene	17.23	146	1775471	8.858	ppbv	100
77) 1,2-Dichlorobenzene	17.92	146	1691354	8.407	ppbv	99
78) Hexachloro-1,3-Butadiene	23.48	225	1601011	9.620	ppbv	99
79) Naphthalene	22.33	128	3005873	12.040	ppbv	99
80) Naphthalene, 2-methyl-	25.06	142	1600397	22.176	ppbv	95
81) 1,2,4-Trichlorobenzene	22.05	180	1742589	10.686	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 906

Delta R.T. 0.01 min

Lab File: VL034314.D

Acq: 17 Oct 2019 9:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 1117928

Ion Ratio Lower Upper

49 100

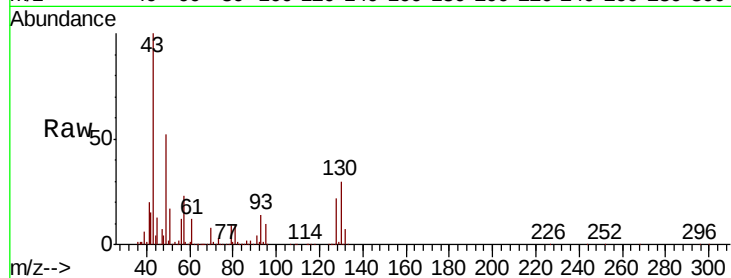
128 41.7 20.6 61.8

130 53.8 26.2 78.5

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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

800000

600000

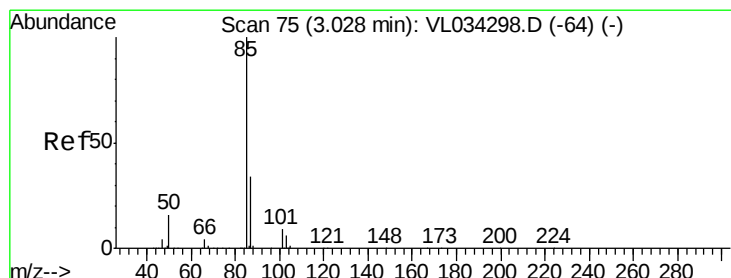
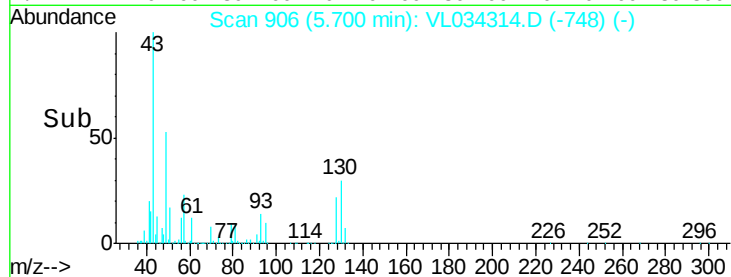
400000

200000

0

5.65 5.70 5.75

Time-->



#2

Dichlorodifluoromethane

Concen: 6.765 ppbv

RT: 3.03 min Scan# 77

Delta R.T. 0.01 min

Lab File: VL034314.D

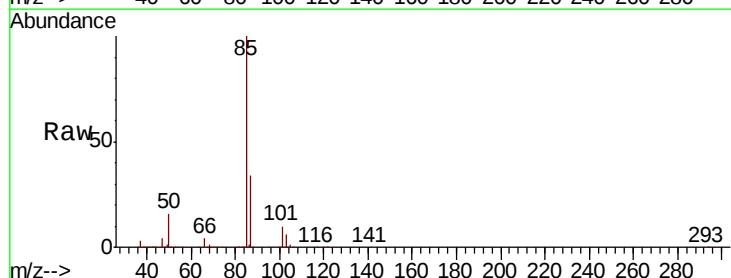
Acq: 17 Oct 2019 9:34

Tgt Ion: 85 Resp: 1303791

Ion Ratio Lower Upper

85 100

87 33.7 27.0 40.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

1200000

1000000

800000

600000

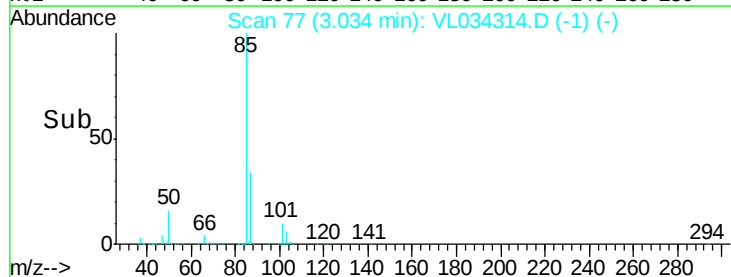
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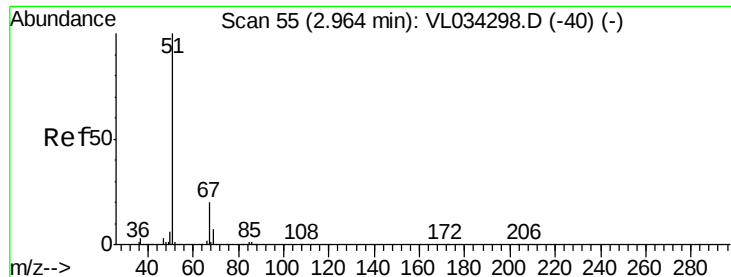
200000

0

3.00 3.05 3.10

Time-->





#3

Chlorodifluoromethane

Concen: 9.512 ppbv

RT: 2.97 min Scan# 58

Delta R.T. 0.01 min

Lab File: VL034314.D

Acq: 17 Oct 2019 9:34

Tot Ion: 51 Resp: 1246391

Ion Ratio Lower Upper

51 100

67 20.2 15.8 23.8

Instrument :

MSVOA_L

ClientSampleId :

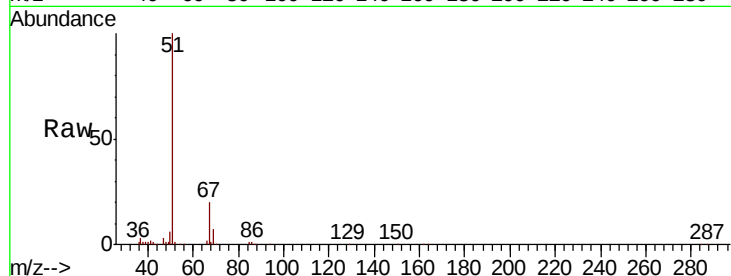
VSTDCCC010EC

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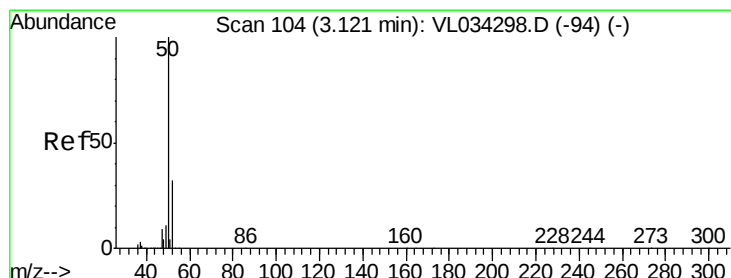
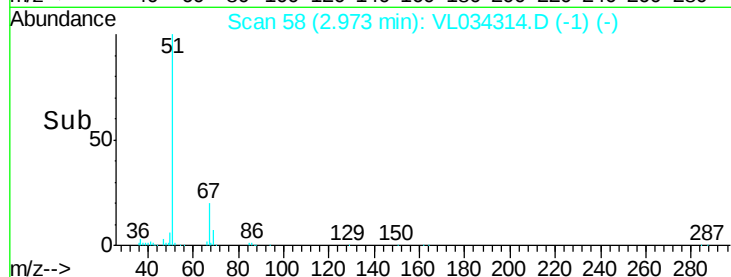
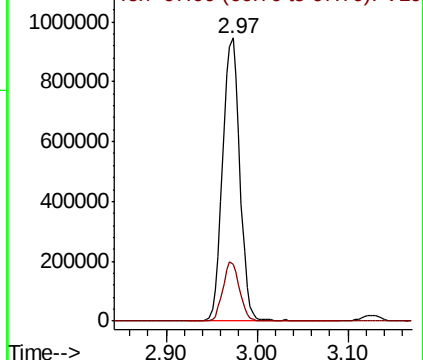
MMDadoda

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.533 ppbv

RT: 3.13 min Scan# 106

Delta R.T. 0.01 min

Lab File: VL034314.D

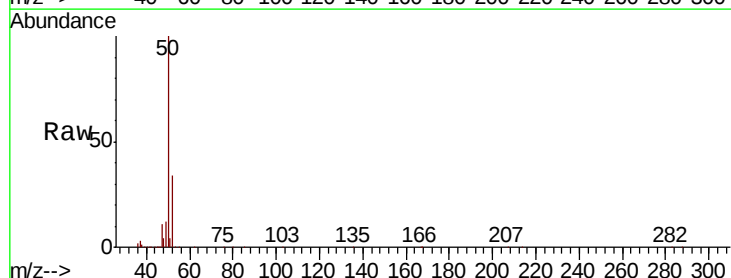
Acq: 17 Oct 2019 9:34

Tgt Ion: 50 Resp: 738845

Ion Ratio Lower Upper

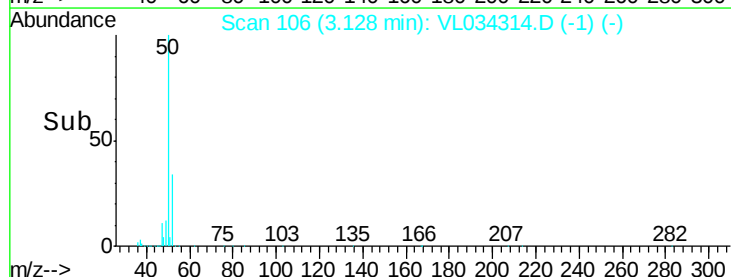
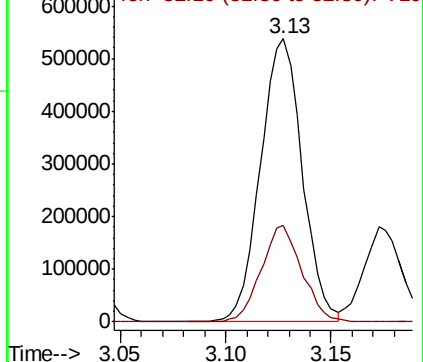
50 100

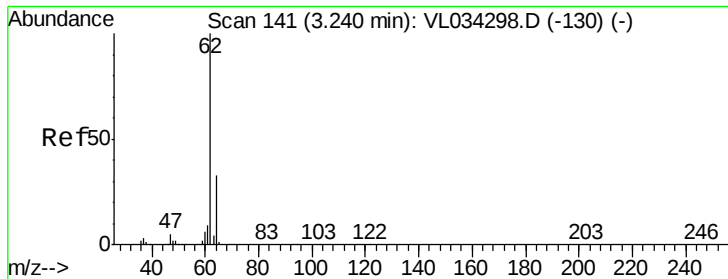
52 34.3 25.4 38.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.363 ppbv

RT: 3.25 min Scan# 143

Delta R.T. 0.01 min

Lab File: VL034314.D

Acq: 17 Oct 2019 9:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 691991

Ion Ratio Lower Upper

62 100

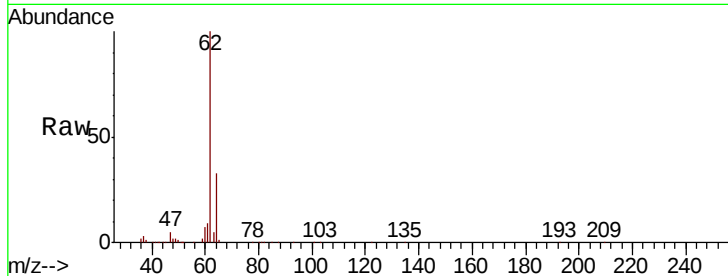
64 32.7 26.0 39.0

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

600000

500000

400000

300000

200000

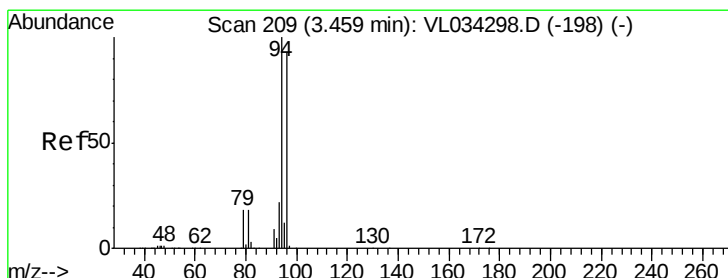
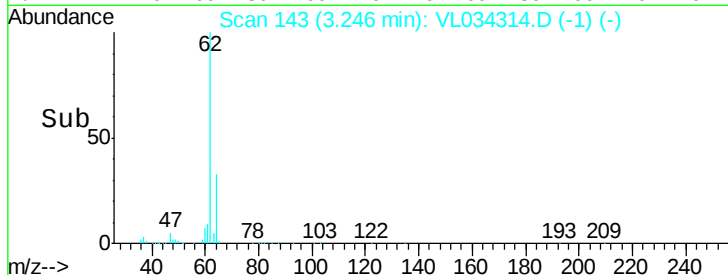
100000

0

3.25

3.20 3.25 3.30

Time-->



#6

Bromomethane

Concen: 10.066 ppbv

RT: 3.47 min Scan# 211

Delta R.T. 0.01 min

Lab File: VL034314.D

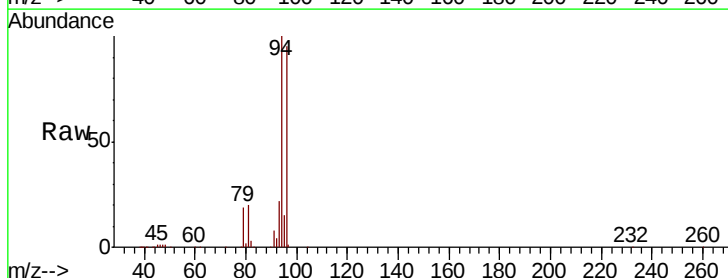
Acq: 17 Oct 2019 9:34

Tgt Ion: 94 Resp: 364275

Ion Ratio Lower Upper

94 100

96 95.2 74.6 112.0



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

300000

250000

200000

150000

100000

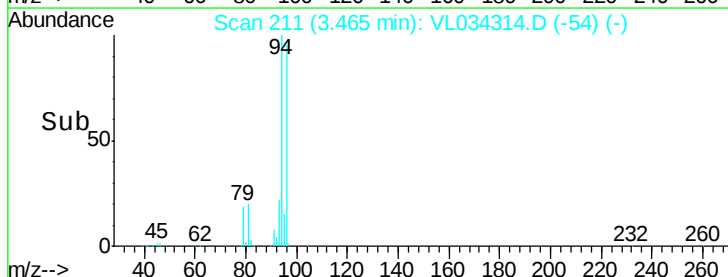
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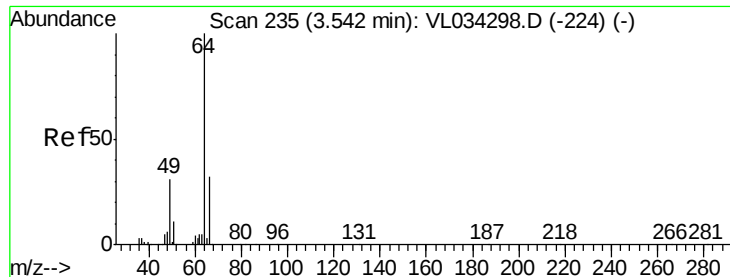
0

3.47

3.45 3.50

Time-->





#7

Chloroethane

Concen: 9.807 ppbv

RT: 3.55 min Scan# 238

Delta R.T. 0.01 min

Lab File: VL034314.D

Acq: 17 Oct 2019 9:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 255093

Ion Ratio Lower Upper

64 100

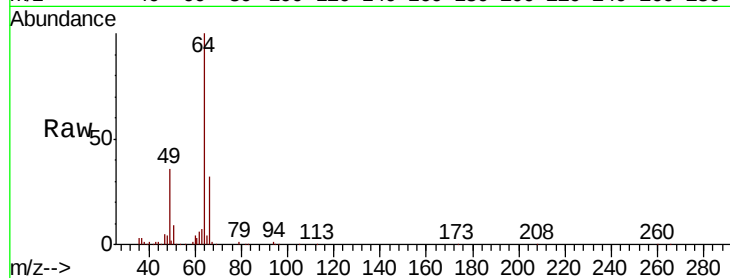
66 31.9 25.4 38.0

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.55

200000

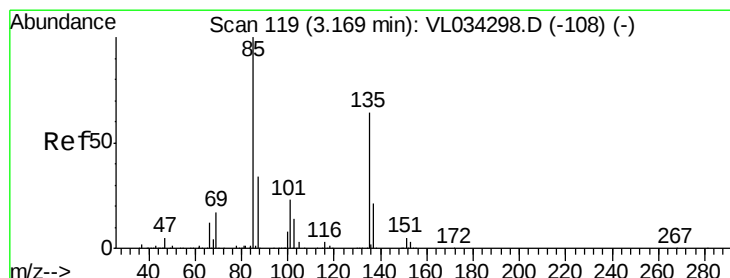
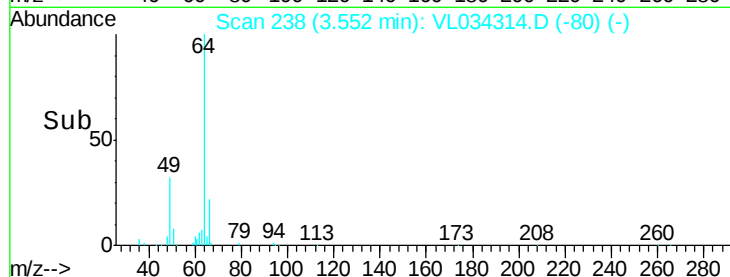
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.346 ppbv

RT: 3.18 min Scan# 121

Delta R.T. 0.01 min

Lab File: VL034314.D

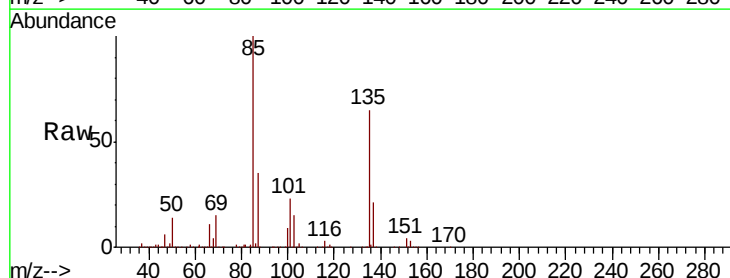
Acq: 17 Oct 2019 9:34

Tgt Ion: 85 Resp: 1560821

Ion Ratio Lower Upper

85 100

135 63.1 50.2 75.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

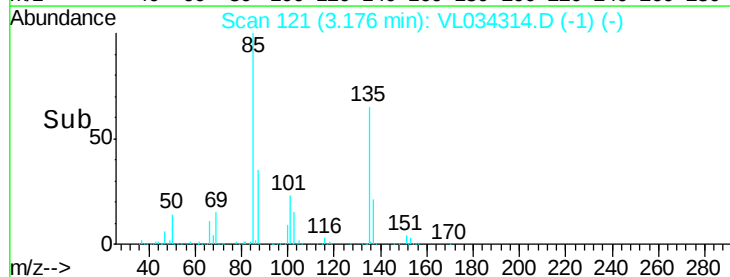
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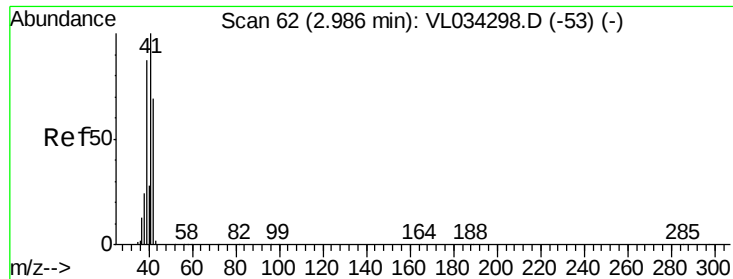
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Time-->





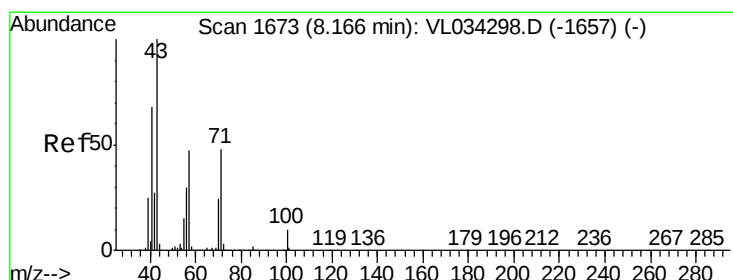
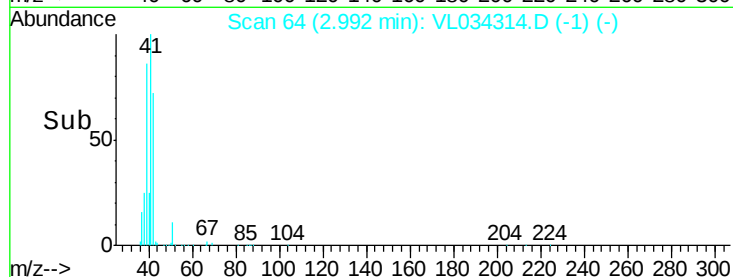
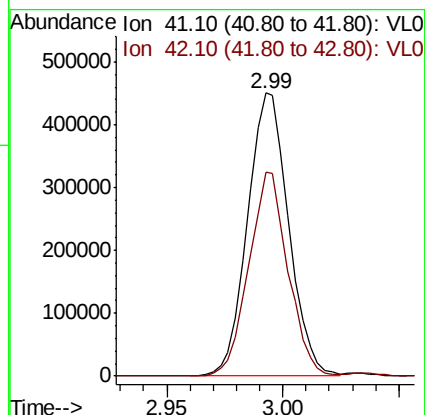
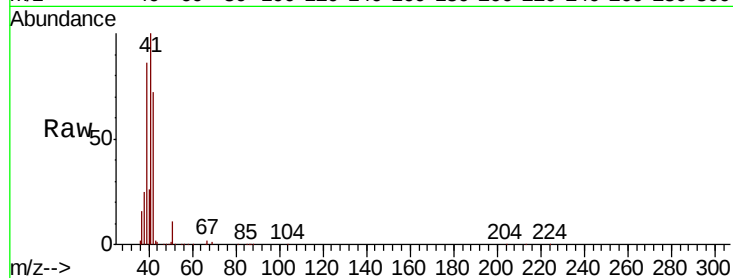
#9
 Propene
 Concen: 9.534 ppbv
 RT: 2.99 min Scan# 64
 Delta R.T. 0.01 min
 Lab File: VL034314.D
 Acq: 17 Oct 2019 9:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 41 Resp: 553767
 Ion Ratio Lower Upper
 41 100
 42 69.7 53.9 80.9

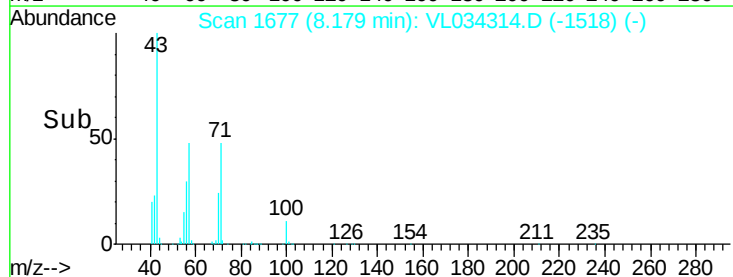
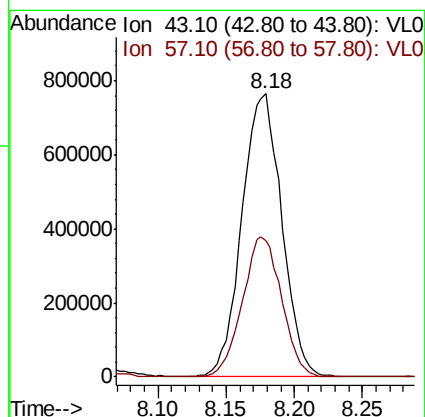
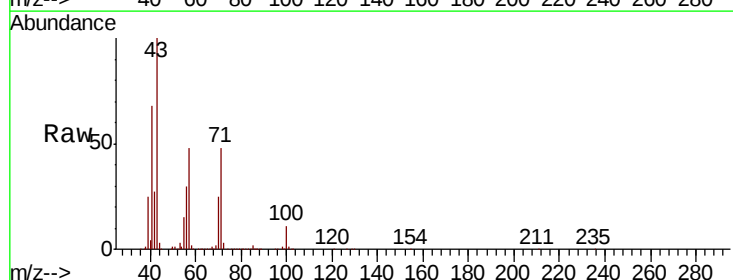
Manual Integrations
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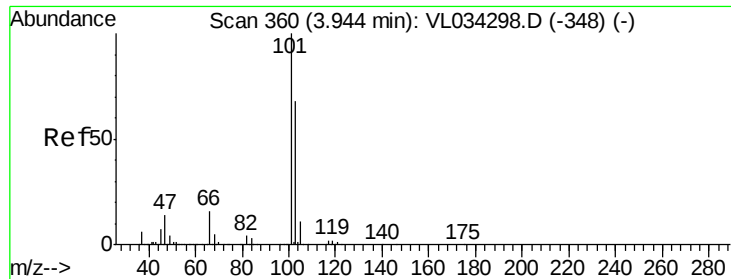
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#10
 Heptane
 Concen: 10.365 ppbv
 RT: 8.18 min Scan# 1677
 Delta R.T. 0.01 min
 Lab File: VL034314.D
 Acq: 17 Oct 2019 9:34

Tgt Ion: 43 Resp: 1545307
 Ion Ratio Lower Upper
 43 100
 57 48.8 39.5 59.3





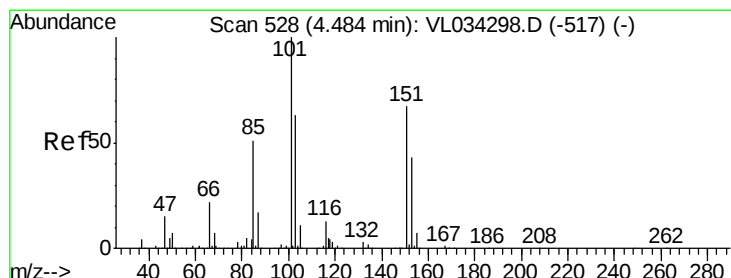
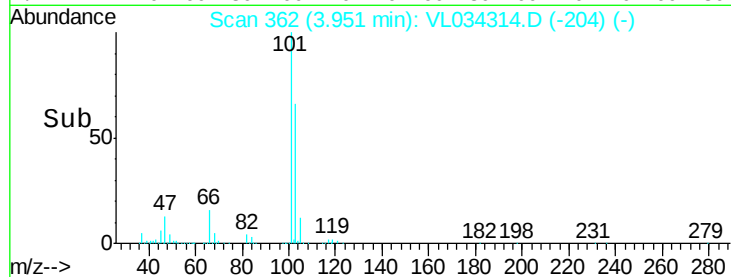
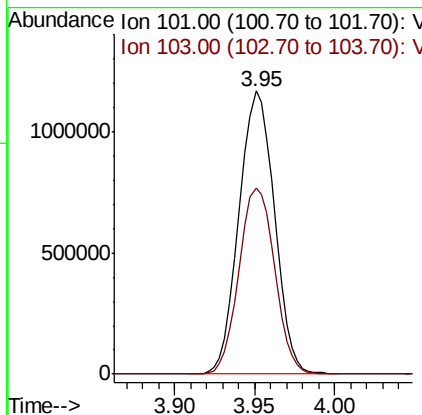
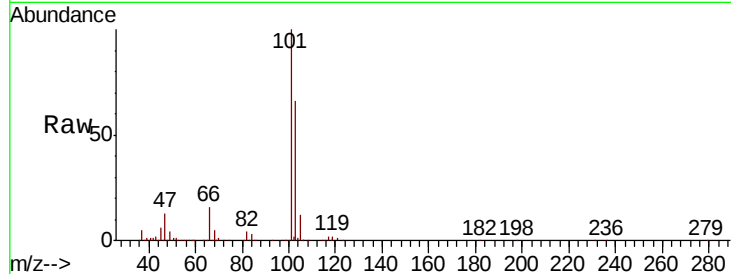
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 Trichlorofluoromethane
 Concen: 9.631 ppbv
 RT: 3.95 min Scan# 362
 Delta R.T. 0.01 min
 Lab File: VL034314.D
 Acq: 17 Oct 2019 9:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 1762359
 Ion Ratio Lower Upper
 101 100
 103 65.7 54.5 81.7

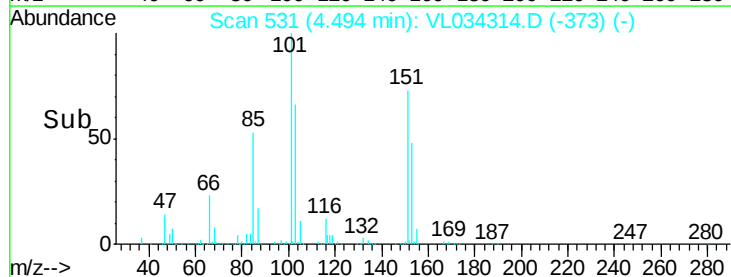
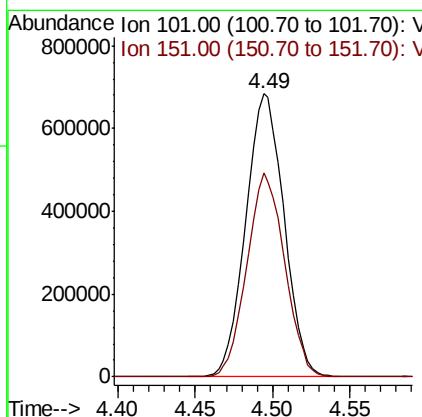
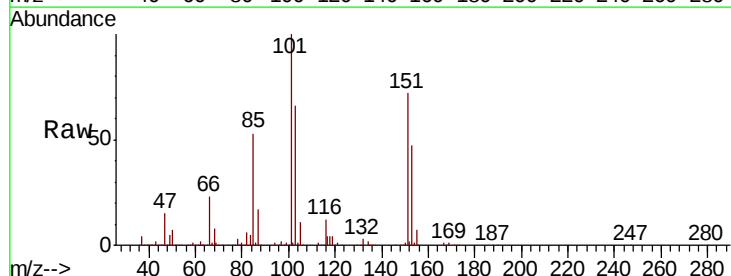
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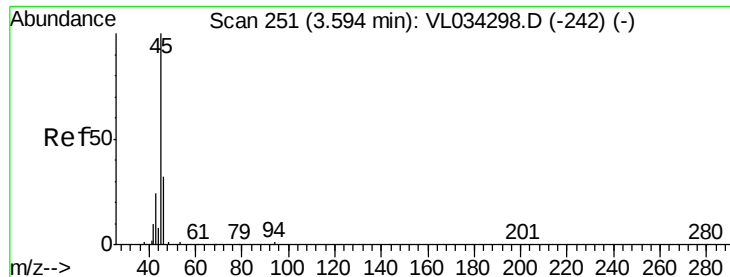
MMDadoda
 10/18/2019 3:05:17 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.858 ppbv
 RT: 4.49 min Scan# 531
 Delta R.T. 0.01 min
 Lab File: VL034314.D
 Acq: 17 Oct 2019 9:34

Tgt Ion:101 Resp: 1181750
 Ion Ratio Lower Upper
 101 100
 151 71.0 57.4 86.2





#13

Ethanol

Concen: 10.247 ppbv

RT: 3.60 min Scan# 253

Delta R.T. 0.01 min

Lab File: VL034314.D

Acq: 17 Oct 2019 9:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 133258

Ion Ratio Lower Upper

45 100

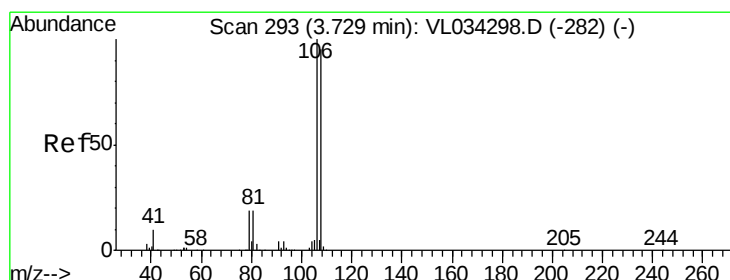
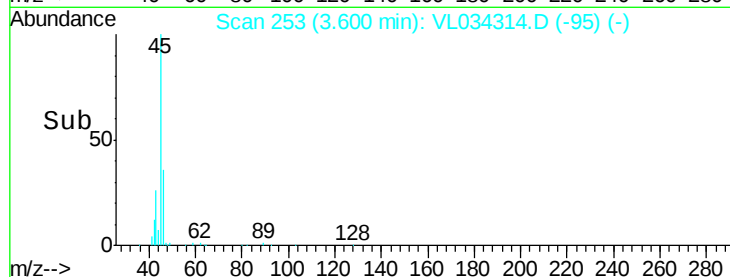
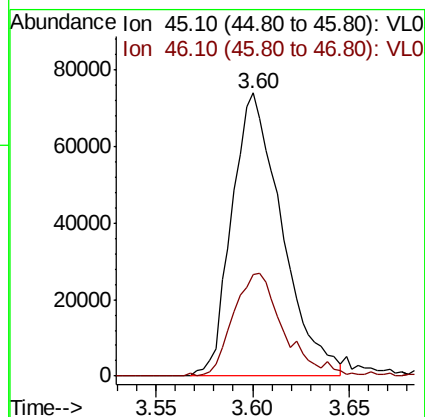
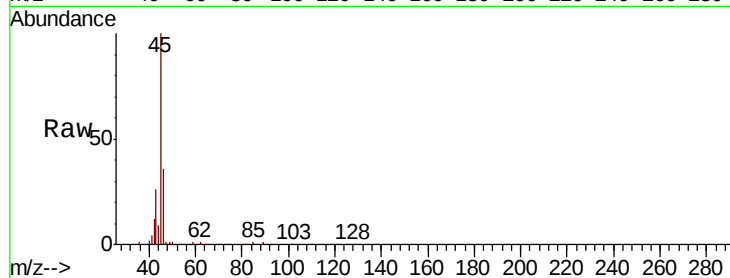
46 37.1 15.8 63.2

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#14

Bromoethene

Concen: 10.208 ppbv

RT: 3.74 min Scan# 296

Delta R.T. 0.01 min

Lab File: VL034314.D

Acq: 17 Oct 2019 9:34

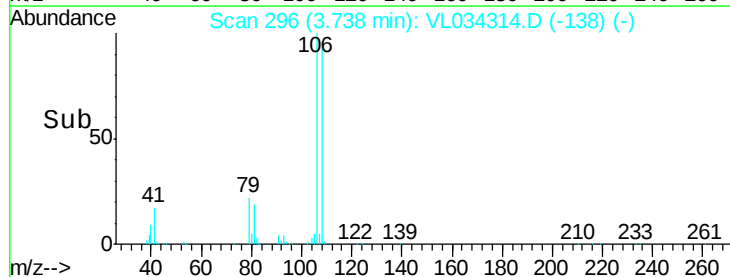
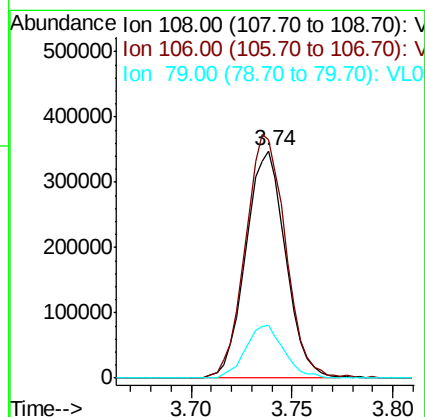
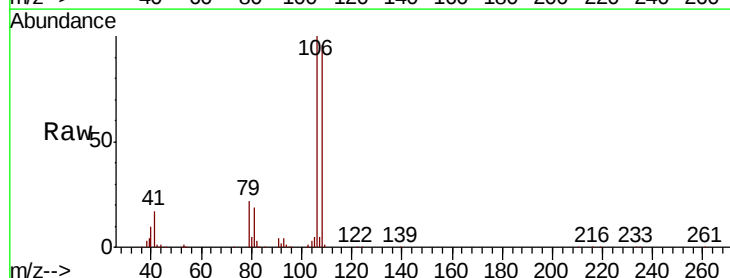
Tgt Ion: 108 Resp: 481822

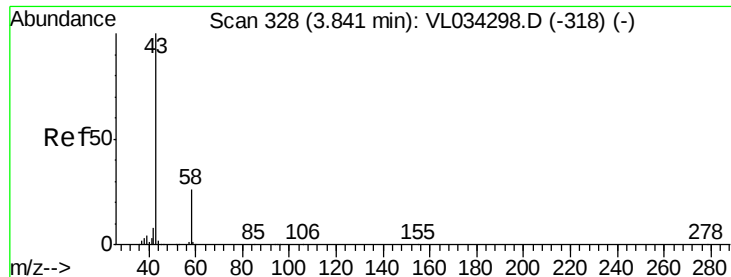
Ion Ratio Lower Upper

108 100

106 108.9 84.8 127.2

79 22.7 17.0 25.4





#15

Acetone

Concen: 8.381 ppbv

RT: 3.85 min Scan# 330

Delta R.T. 0.01 min

Lab File: VL034314.D

Acq: 17 Oct 2019 9:34

Tot Ion: 43 Resp: 1340165

Ion Ratio Lower Upper

43 100

58 25.3 20.4 30.6

Instrument :

MSVOA_L

ClientSampleId :

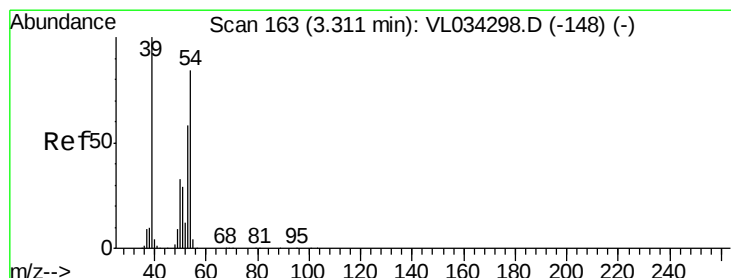
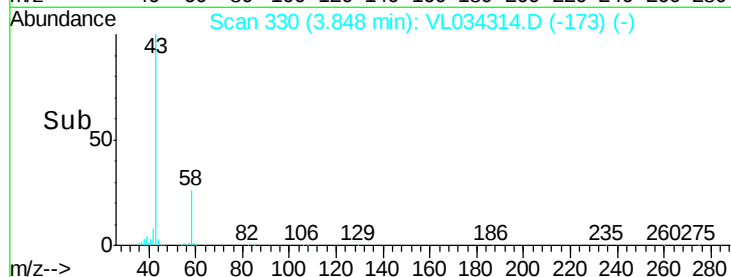
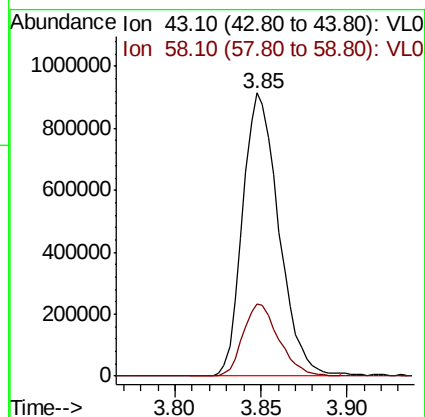
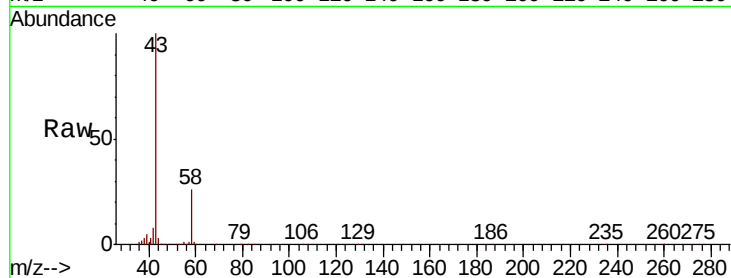
VSTDCCC010EC

Manual Integrations

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#16

1,3-Butadiene

Concen: 9.945 ppbv

RT: 3.32 min Scan# 165

Delta R.T. 0.01 min

Lab File: VL034314.D

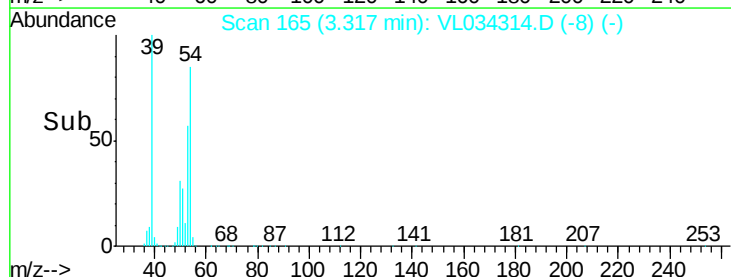
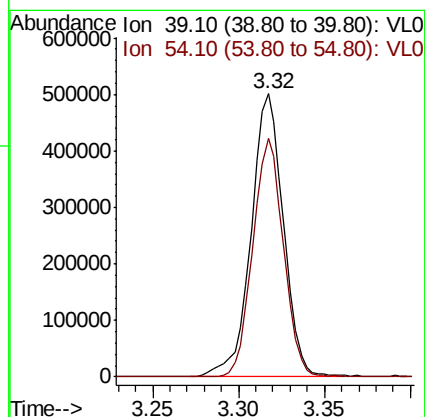
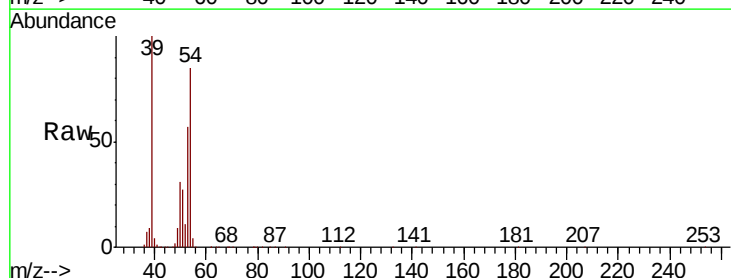
Acq: 17 Oct 2019 9:34

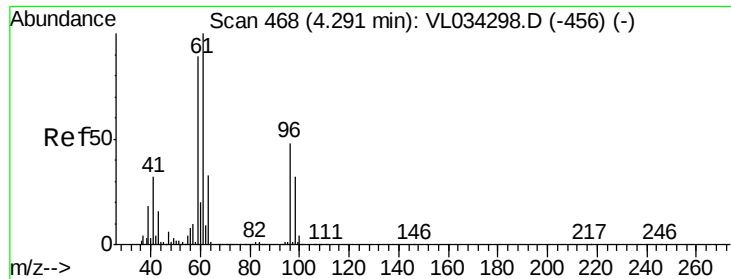
Tgt Ion: 39 Resp: 646163

Ion Ratio Lower Upper

39 100

54 80.9 63.9 95.9





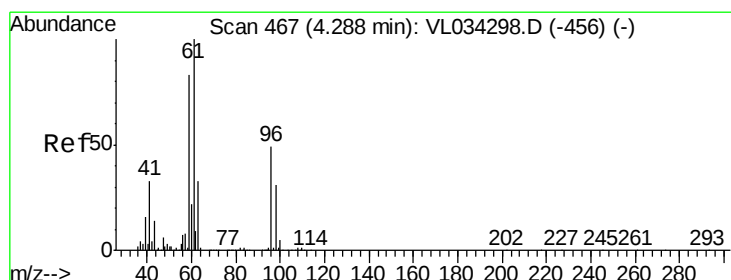
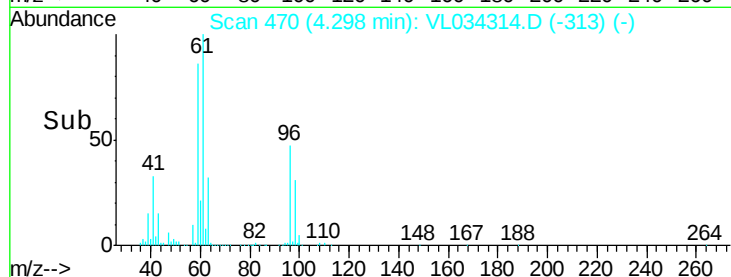
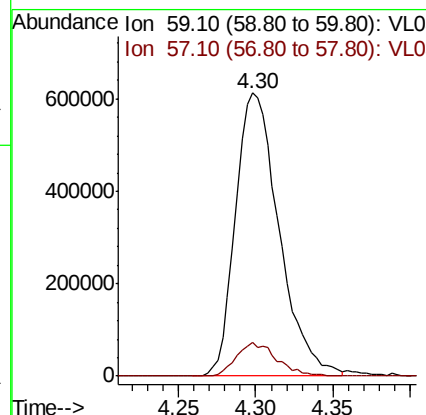
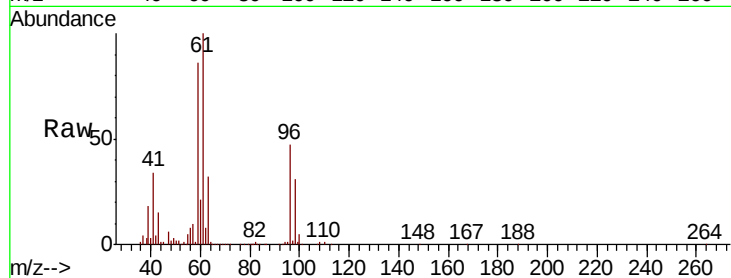
#17
tert-Butyl alcohol
Concen: 11.712 ppbv
RT: 4.30 min Scan# 470
Delta R.T. 0.01 min
Lab File: VL034314.D
Acq: 17 Oct 2019 9:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 59 Resp: 1195269
Ion Ratio Lower Upper
59 100
57 11.3 8.8 13.2

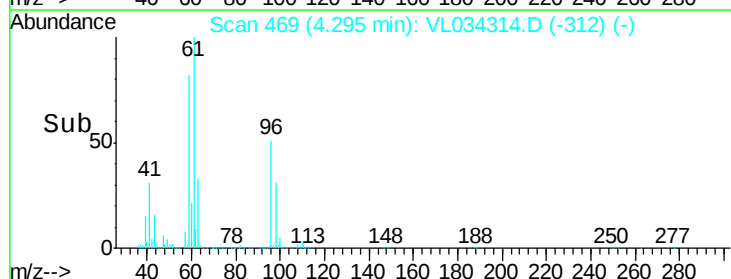
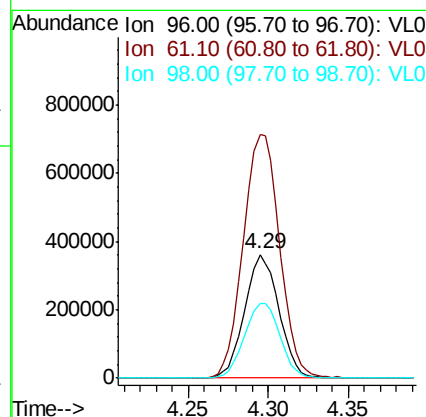
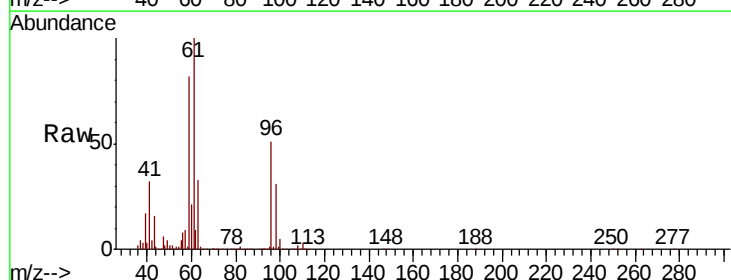
Manual Integrations
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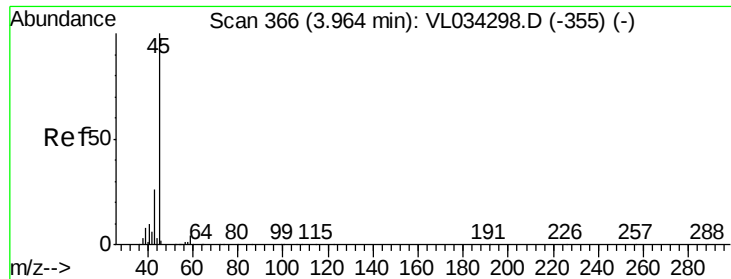
MMDadoda
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#18
1,1-Dichloroethene
Concen: 10.035 ppbv
RT: 4.29 min Scan# 469
Delta R.T. 0.01 min
Lab File: VL034314.D
Acq: 17 Oct 2019 9:34

Tgt Ion: 96 Resp: 526718
Ion Ratio Lower Upper
96 100
61 197.2 164.5 246.7
98 60.9 51.7 77.5





#19

Isopropyl Alcohol

Concen: 11.543 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.01 min

Lab File: VL034314.D

Acq: 17 Oct 2019 9:34

Tot Ion: 45 Resp: 1029703

Ion Ratio Lower Upper

45 100

58 1.8 1.4 2.2

Instrument :

MSVOA_L

ClientSampleId :

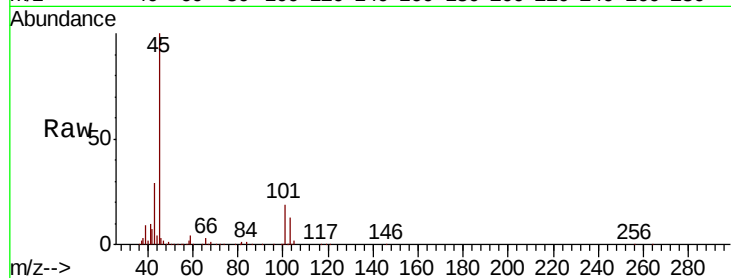
VSTDCCC010EC

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

600000

500000

400000

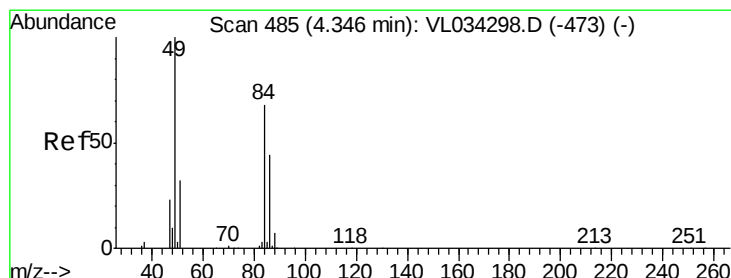
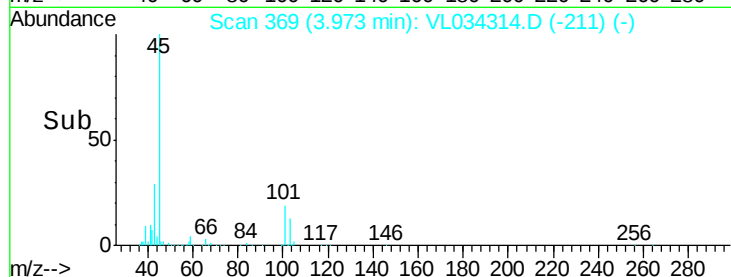
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 8.140 ppbv

RT: 4.35 min Scan# 487

Delta R.T. 0.01 min

Lab File: VL034314.D

Acq: 17 Oct 2019 9:34

Tgt Ion: 84 Resp: 470566

Ion Ratio Lower Upper

84 100

49 158.3 118.5 177.7

51 49.4 38.8 58.2

86 62.1 51.7 77.5

Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

800000

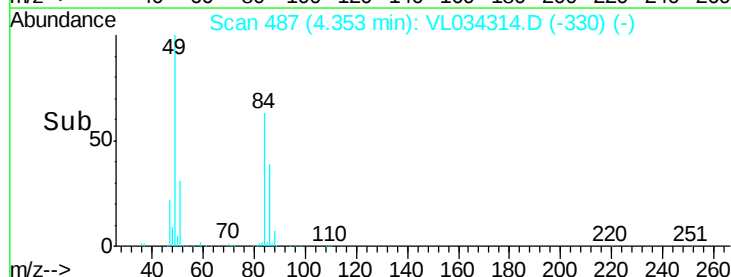
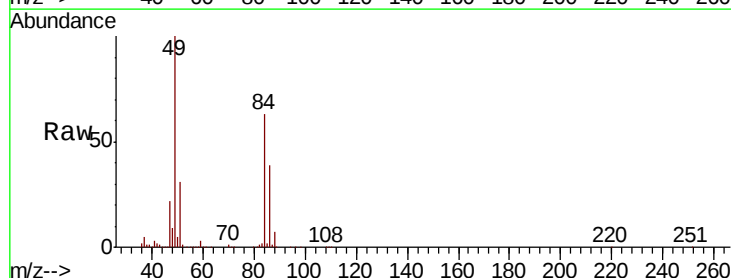
600000

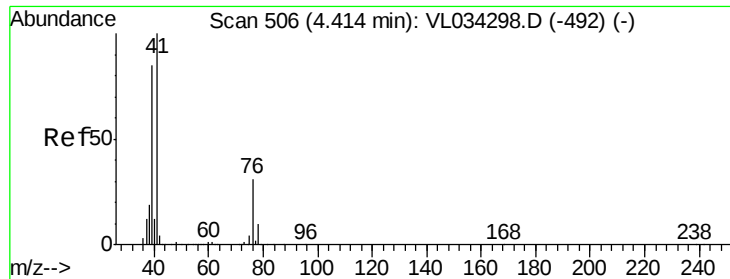
400000

200000

0

Time-->





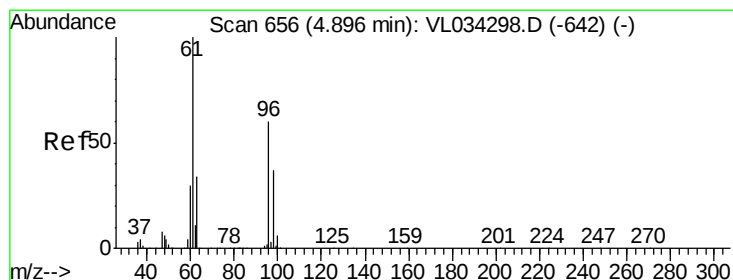
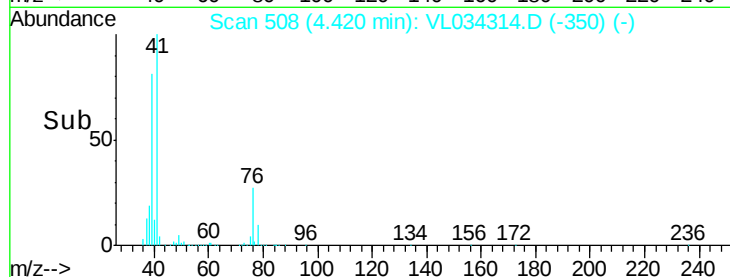
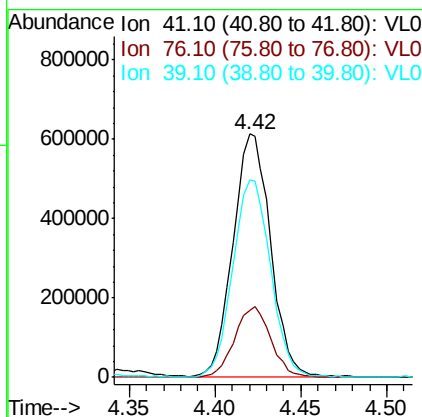
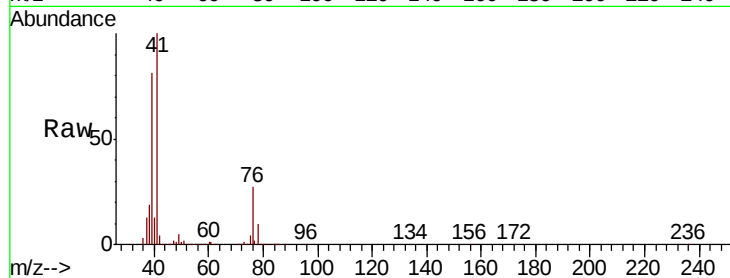
#21
Allvl Chloride
Concen: 10.441 ppbv
RT: 4.42 min Scan# 508
Delta R.T. 0.01 min
Lab File: VL034314.D
Acq: 17 Oct 2019 9:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.2	22.8	34.2
39	82.0	66.0	99.0

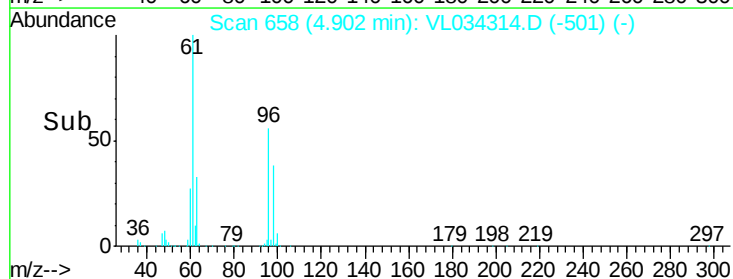
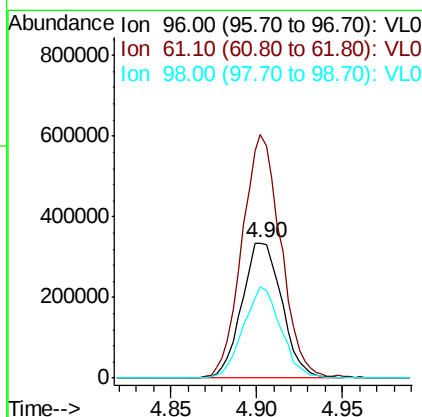
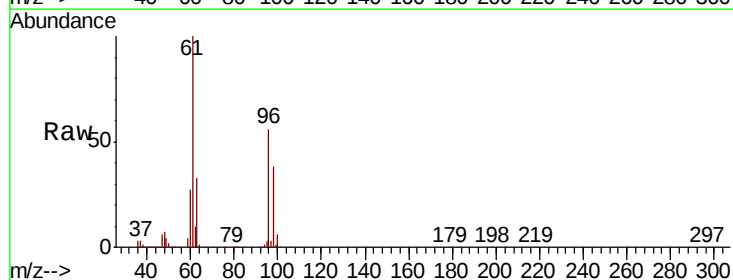
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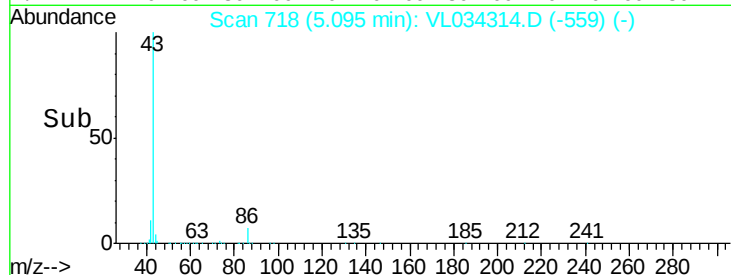
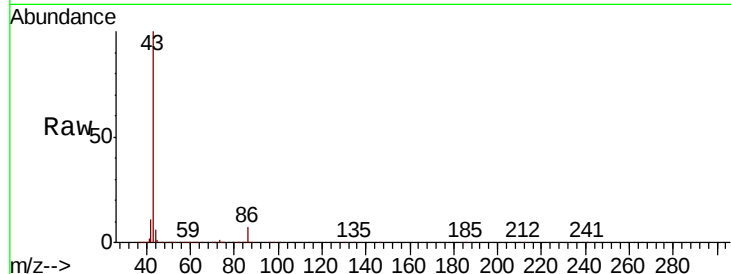
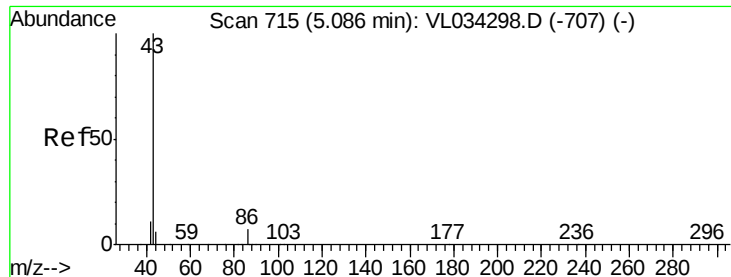
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 10.348 ppbv
RT: 4.90 min Scan# 658
Delta R.T. 0.01 min
Lab File: VL034314.D
Acq: 17 Oct 2019 9:34

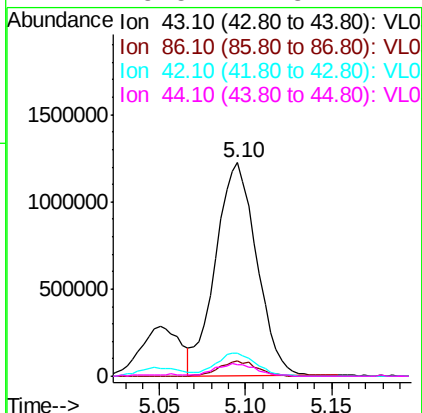
Tgt Ion	Ratio	Lower	Upper
96	100		
61	180.0	133.8	200.6
98	67.6	49.4	74.0





#23
 Vinyl Acetate
 Concen: 10.220 ppbv
 RT: 5.10 min Scan# 718
 Delta R.T. 0.01 min
 Lab File: VL034314.D
 Acq: 17 Oct 2019 9:34

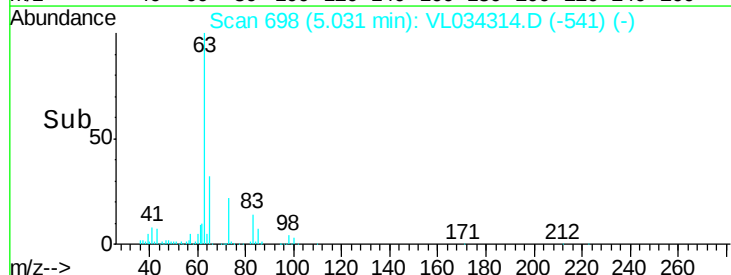
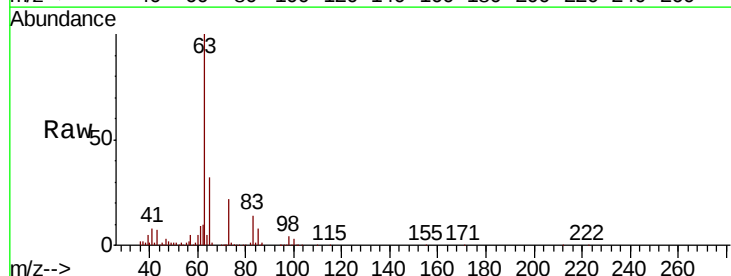
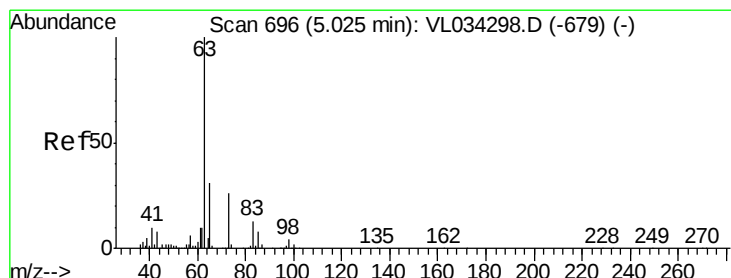
Tot Ion	43	Resp	2040916
Ion	Ratio	Lower	Upper
43	100		
86	6.9	5.0	7.4
42	10.7	8.6	13.0
44	5.5	4.8	7.2



Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

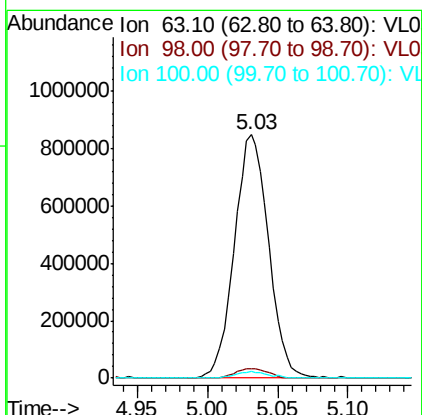
Manual Integrations
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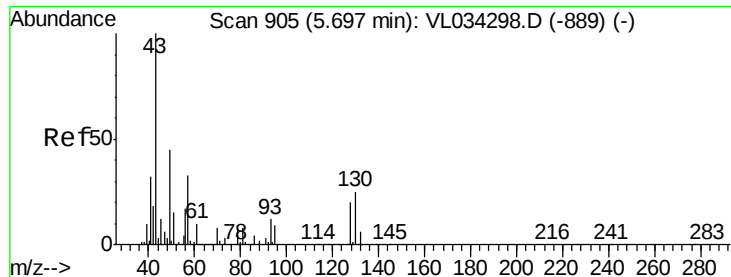
MMDadoda
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#24
 1,1-Dichloroethane
 Concen: 9.685 ppbv
 RT: 5.03 min Scan# 698
 Delta R.T. 0.01 min
 Lab File: VL034314.D
 Acq: 17 Oct 2019 9:34

Tgt Ion	63	Resp	1435434
Ion	Ratio	Lower	Upper
63	100		
98	3.8	2.0	6.0
100	2.6	1.1	3.5





#25

Ethyl Acetate

Concen: 9.647 ppbv

RT: 5.71 min Scan# 908

Delta R.T. 0.01 min

Lab File: VL034314.D

Acq: 17 Oct 2019 9:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 2604281

Ion Ratio Lower Upper

43 100

45 10.2 8.3 12.5

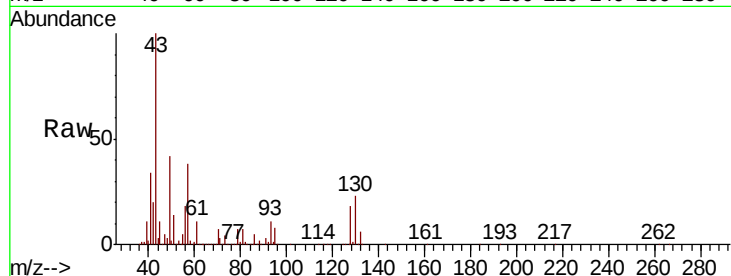
61 9.4 7.7 11.5

70 7.0 5.4 8.2

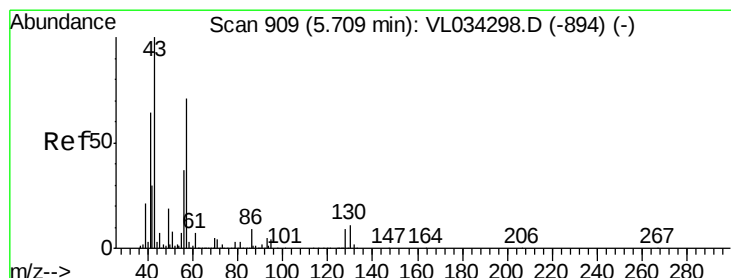
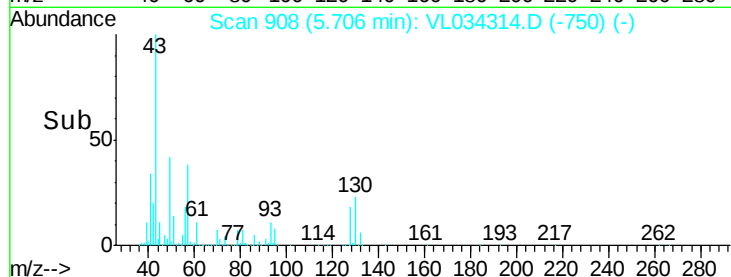
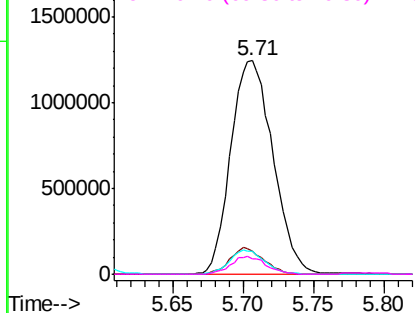
Manual Integrations
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 9.871 ppbv

RT: 5.72 min Scan# 911

Delta R.T. 0.01 min

Lab File: VL034314.D

Acq: 17 Oct 2019 9:34

Tgt Ion: 57 Resp: 1135820

Ion Ratio Lower Upper

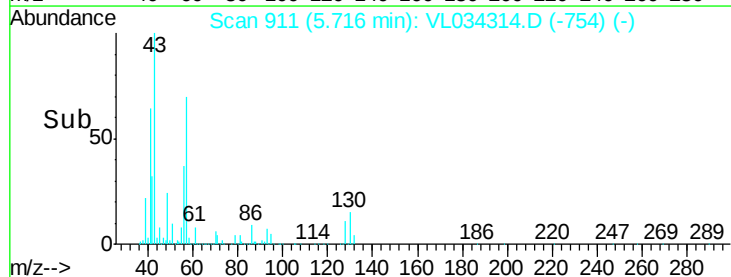
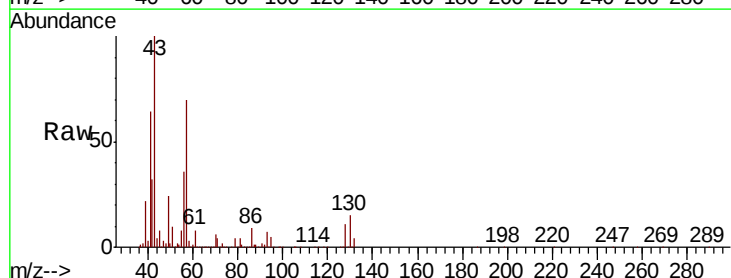
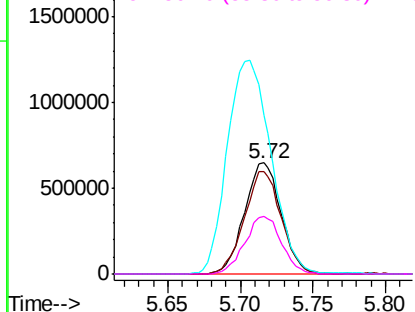
57 100

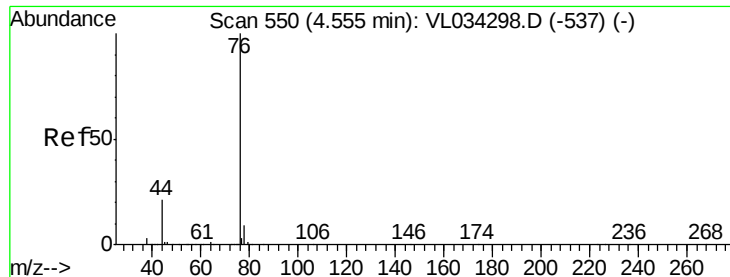
41 93.4 76.5 114.7

43 230.0 188.5 282.7

56 52.2 42.8 64.2

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





#27

Carbon Disulfide

Concen: 11.526 ppbv

RT: 4.56 min Scan# 552

Delta R.T. 0.01 min

Lab File: VL034314.D

Acq: 17 Oct 2019 9:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1376805

Ion Ratio Lower Upper

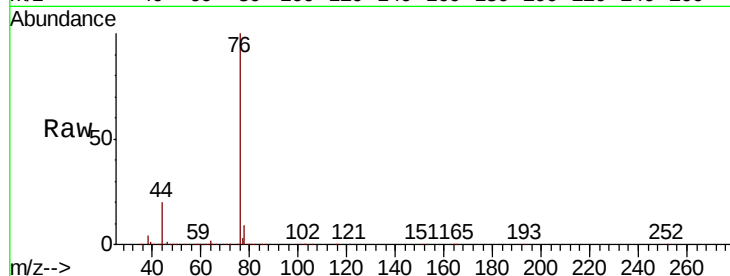
76 100

44 20.4 17.3 25.9

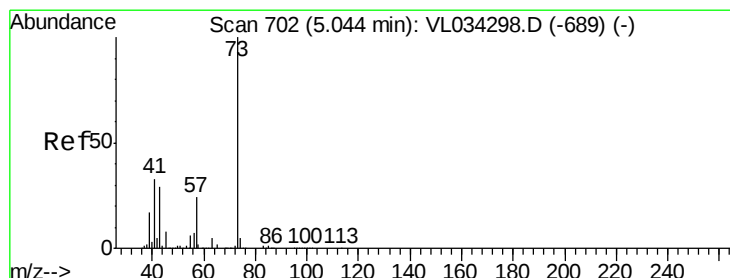
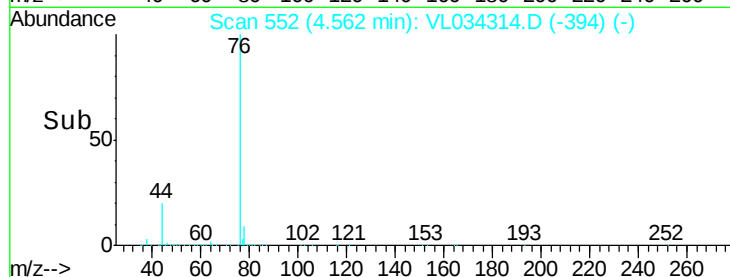
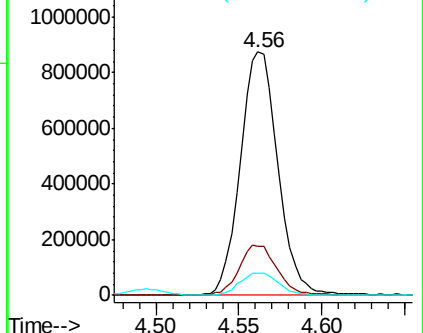
78 9.7 7.8 11.6

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Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 10.002 ppbv

RT: 5.05 min Scan# 704

Delta R.T. 0.01 min

Lab File: VL034314.D

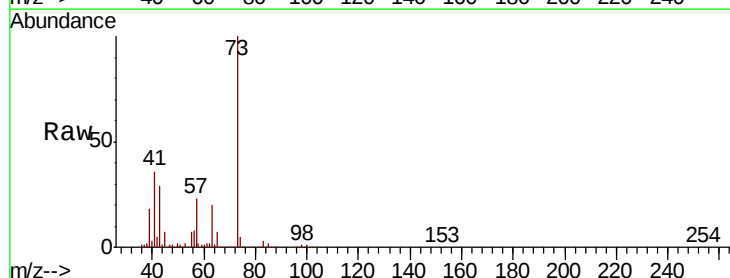
Acq: 17 Oct 2019 9:34

Tgt Ion: 73 Resp: 1741776

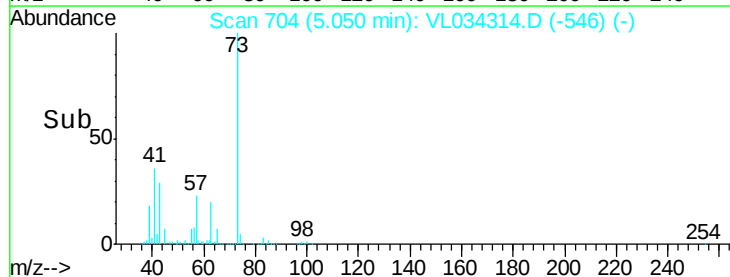
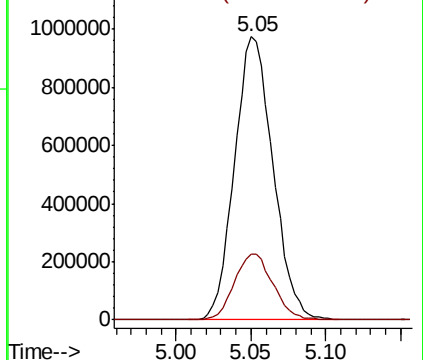
Ion Ratio Lower Upper

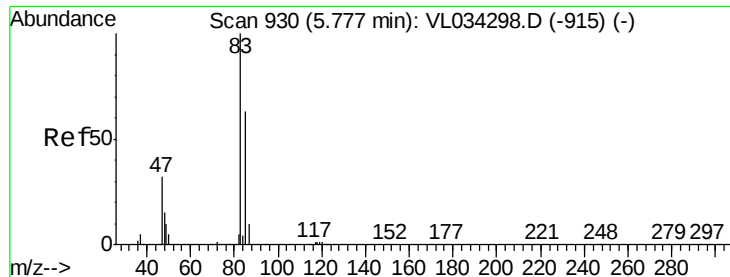
73 100

57 23.6 19.2 28.8



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 9.725 ppbv

RT: 5.79 min Scan# 933

Delta R.T. 0.01 min

Lab File: VL034314.D

Acq: 17 Oct 2019 9:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 83 Resp: 1770049

Ion Ratio Lower Upper

83 100

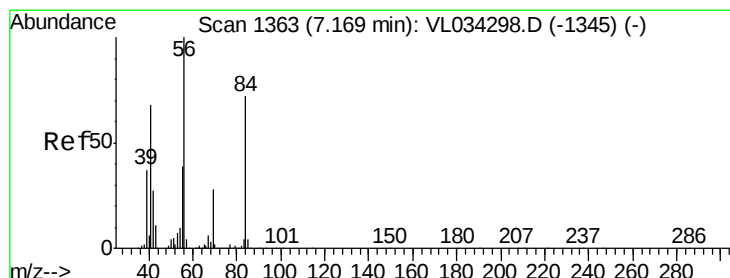
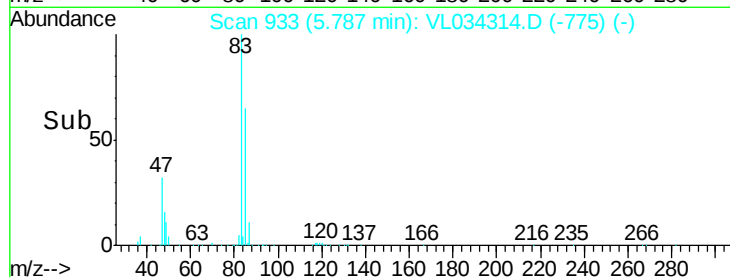
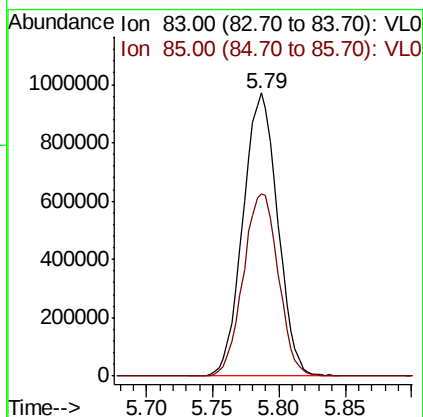
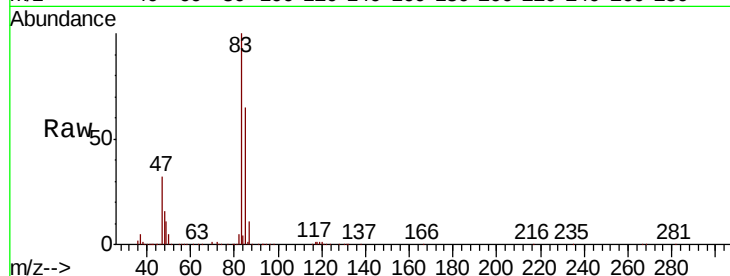
85 64.4 50.5 75.7

Manual Integrations

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#30

Cyclohexane

Concen: 10.231 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. 0.01 min

Lab File: VL034314.D

Acq: 17 Oct 2019 9:34

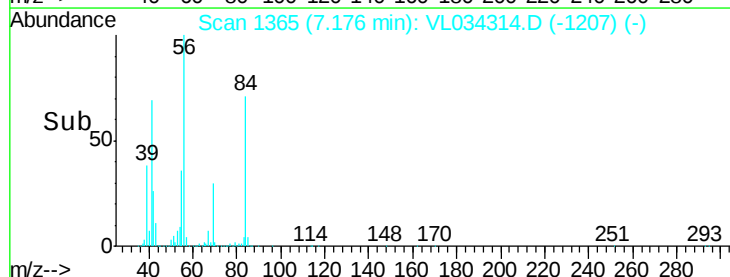
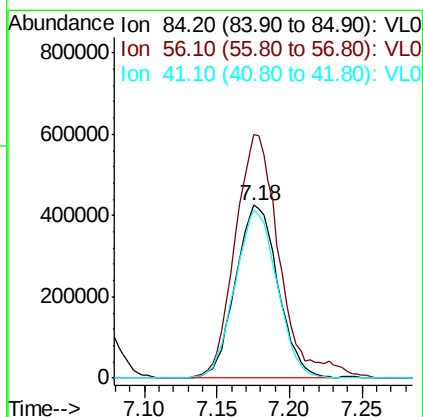
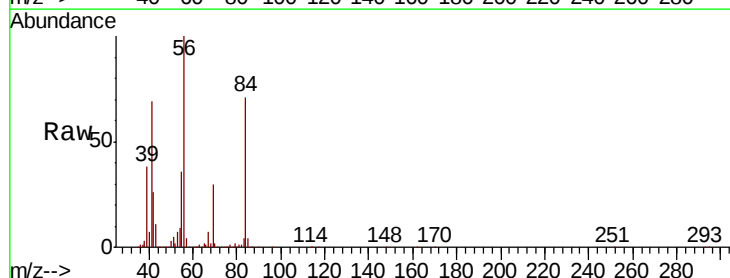
Tgt Ion: 84 Resp: 865747

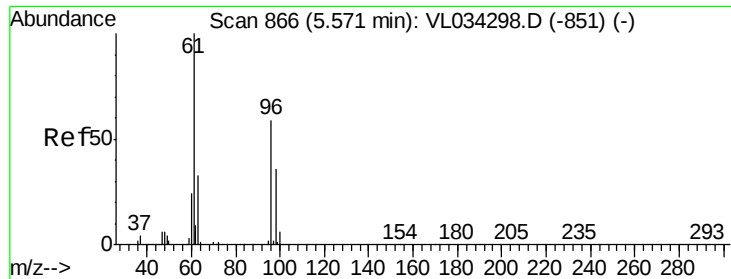
Ion Ratio Lower Upper

84 100

56 147.7 119.4 179.0

41 96.8 78.7 118.1





#31

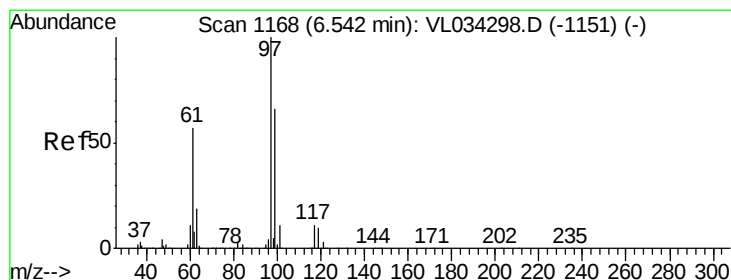
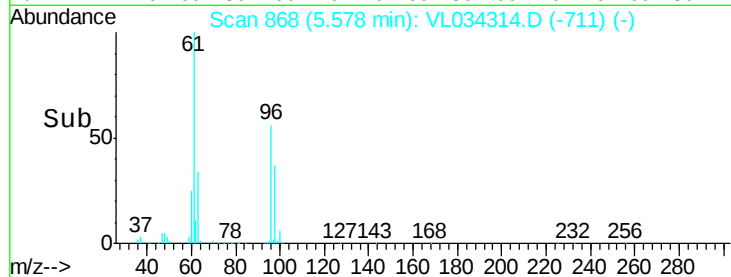
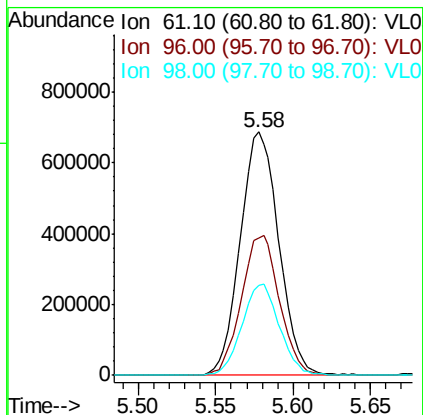
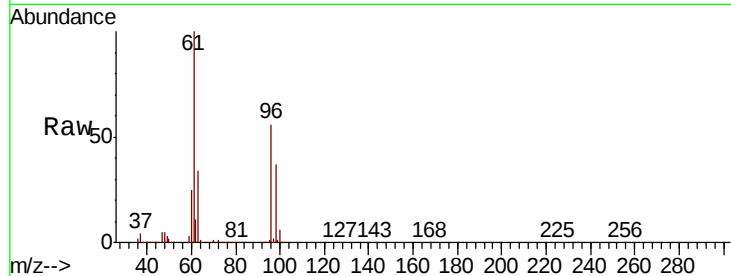
cis-1,2-Dichloroethene
 Concen: 10.224 ppbv
 RT: 5.58 min Scan# 868
 Delta R.T. 0.01 min
 Lab File: VL034314.D
 Acq: 17 Oct 2019 9:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	56.2	47.5	71.3
98	37.2	28.8	43.2

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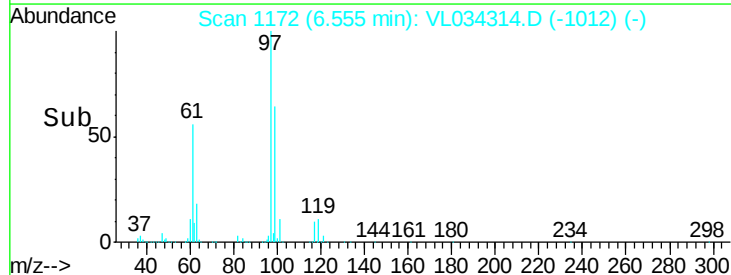
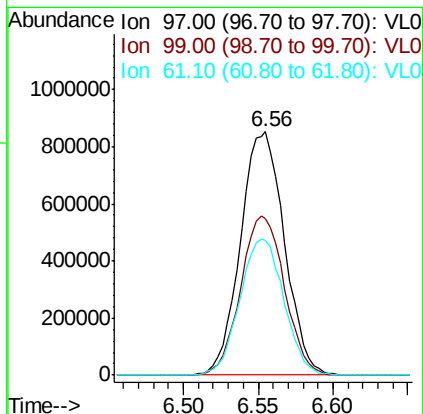
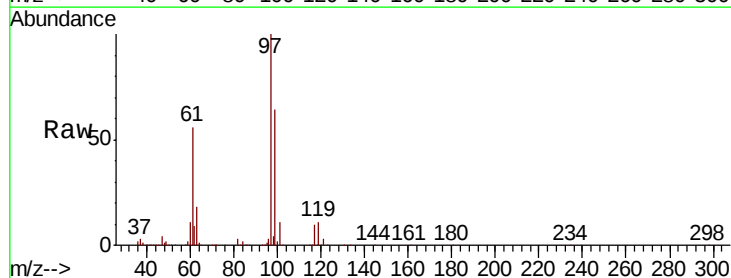
MMDadoda
 10/18/2019 3:05:17 PM

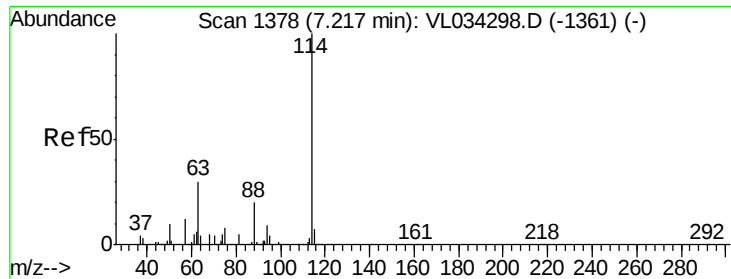


#32

1,1,1-Trichloroethane
 Concen: 9.827 ppbv
 RT: 6.56 min Scan# 1172
 Delta R.T. 0.01 min
 Lab File: VL034314.D
 Acq: 17 Oct 2019 9:34

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.3	52.6	78.8
61	56.3	44.5	66.7





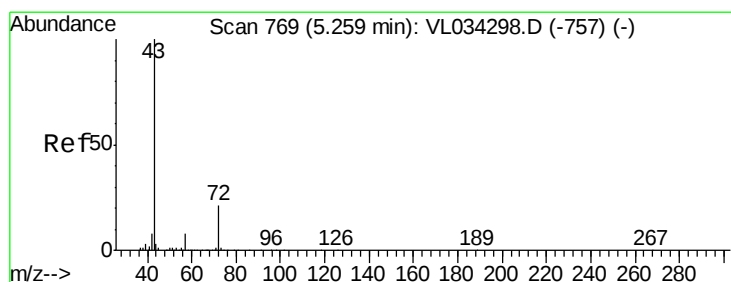
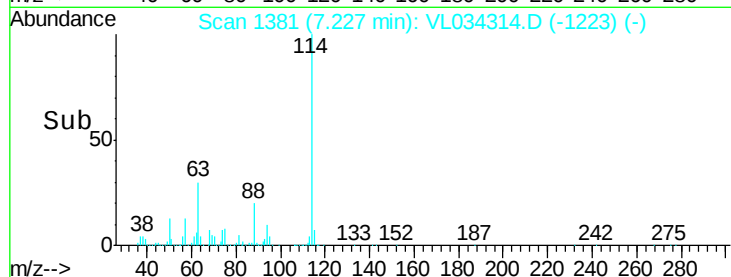
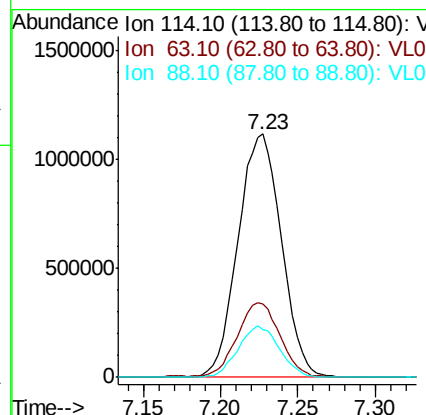
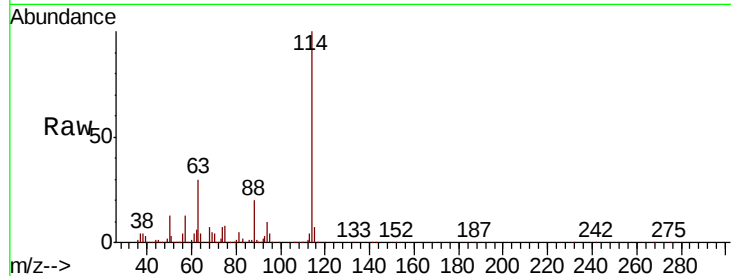
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.23 min Scan# 1381
 Delta R.T. 0.01 min
 Lab File: VL034314.D
 Acq: 17 Oct 2019 9:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	31.0	25.2	37.8
88	20.3	16.0	24.0

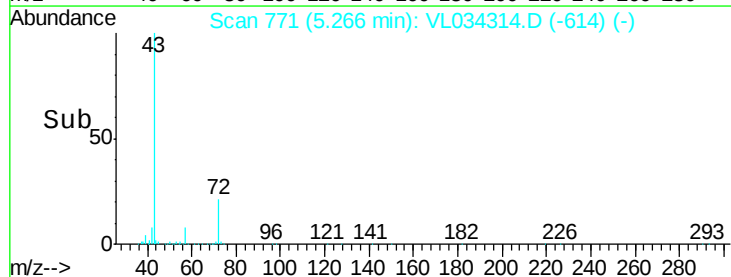
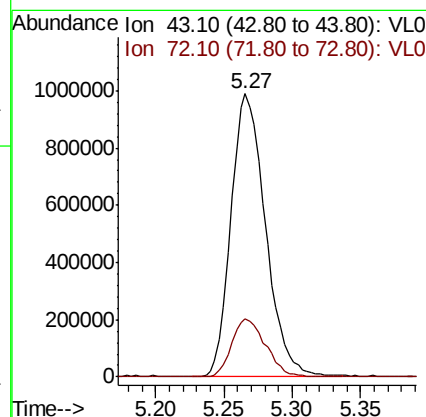
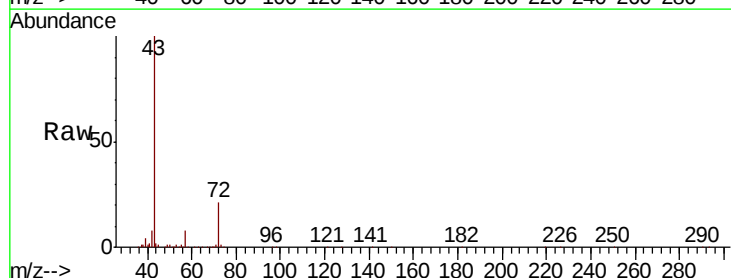
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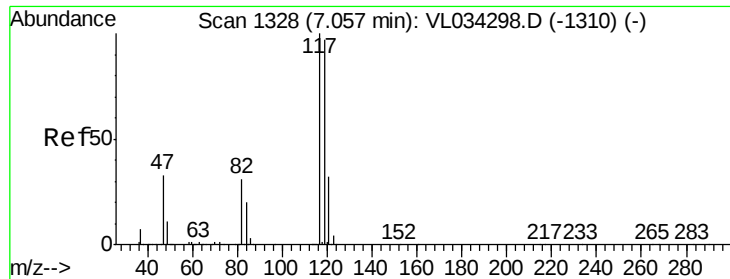
MMDadoda
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#34
 2-Butanone
 Concen: 9.773 ppbv
 RT: 5.27 min Scan# 771
 Delta R.T. 0.01 min
 Lab File: VL034314.D
 Acq: 17 Oct 2019 9:34

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.4	16.3	24.5





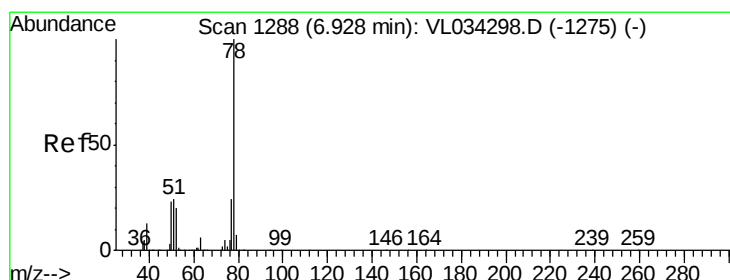
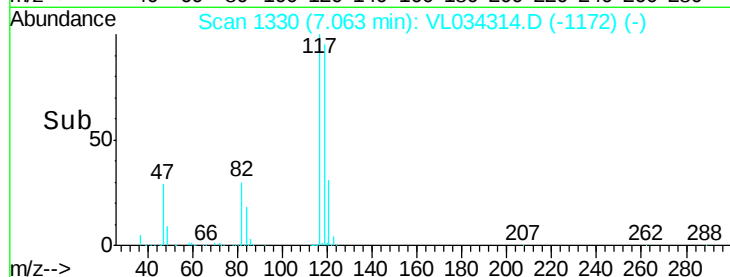
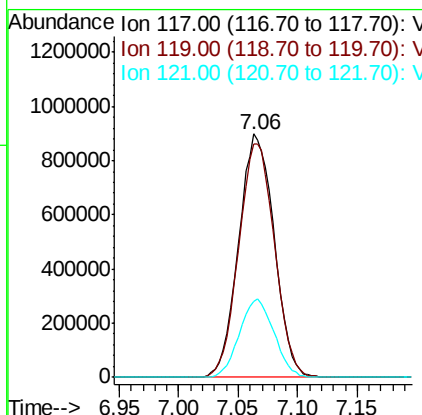
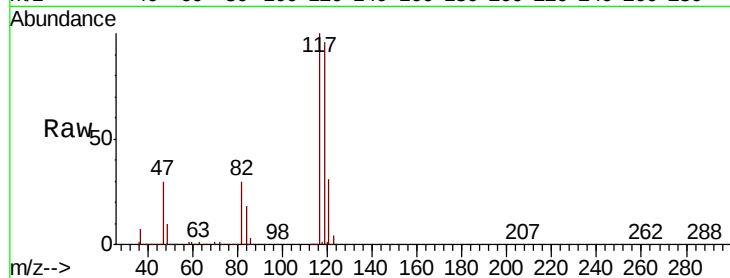
#35
Carbon Tetrachloride
Concen: 9.823 ppbv
RT: 7.06 min Scan# 1330
Delta R.T. 0.01 min
Lab File: VL034314.D
Acq: 17 Oct 2019 9:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
119	95.6	77.3	115.9
121	31.3	25.5	38.3

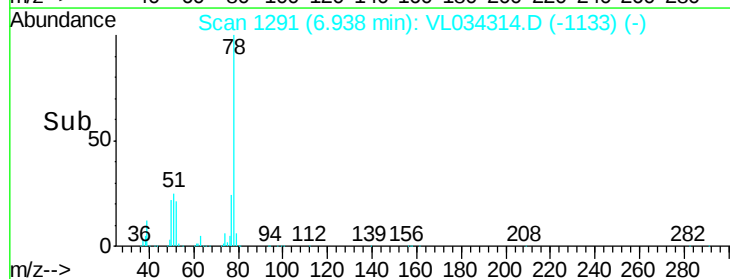
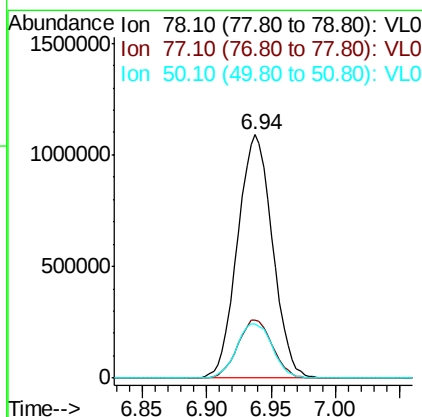
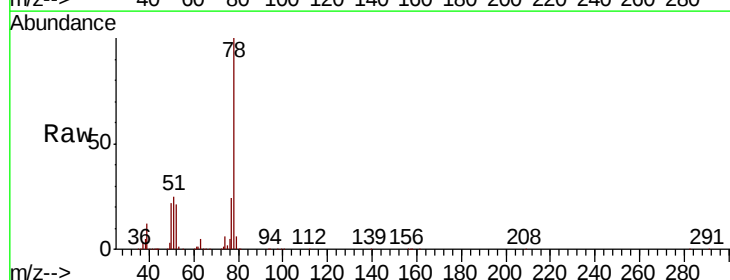
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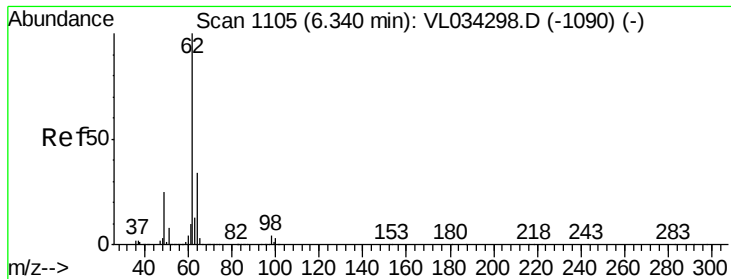
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#36
Benzene
Concen: 9.879 ppbv
RT: 6.94 min Scan# 1291
Delta R.T. 0.01 min
Lab File: VL034314.D
Acq: 17 Oct 2019 9:34

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.0	28.4
50	22.5	18.6	27.8





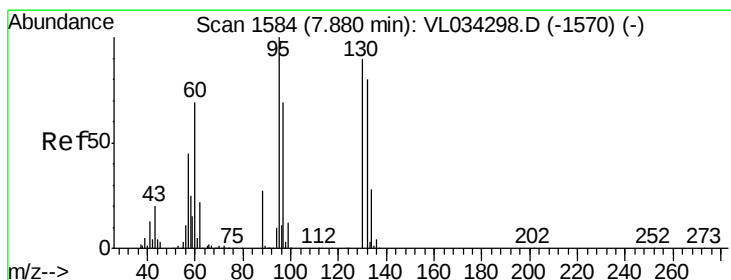
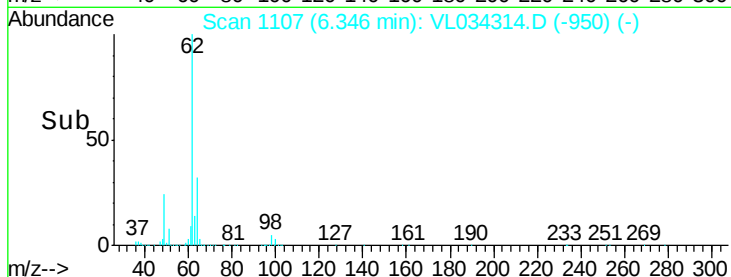
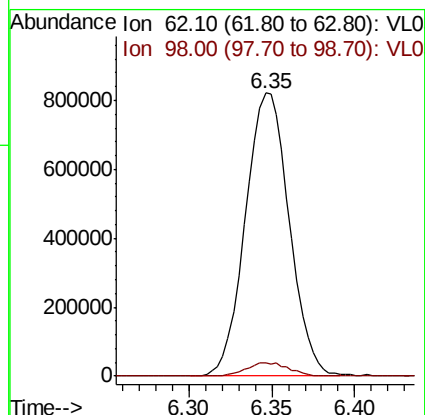
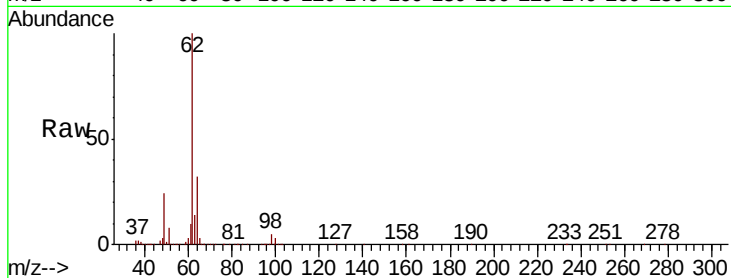
#37
 1,2-Dichloroethane
 Concen: 9.745 ppbv
 RT: 6.35 min Scan# 1107
 Delta R.T. 0.01 min
 Lab File: VL034314.D
 Acq: 17 Oct 2019 9:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 62 Resp: 1513471
 Ion Ratio Lower Upper
 62 100
 98 4.7 3.8 5.6

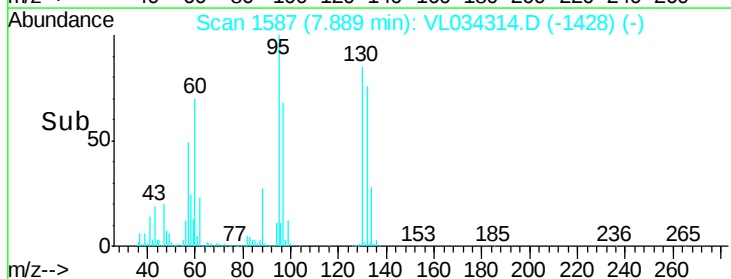
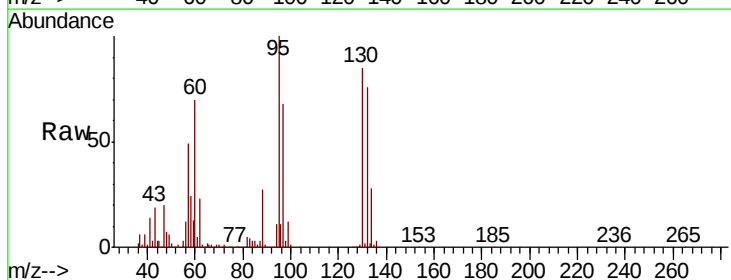
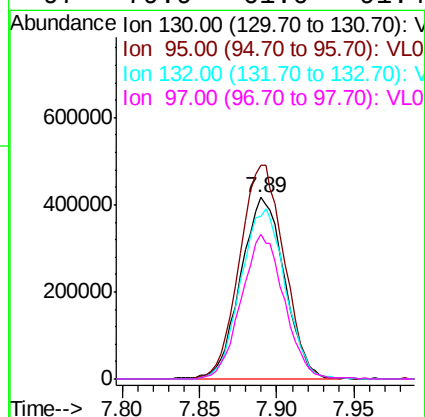
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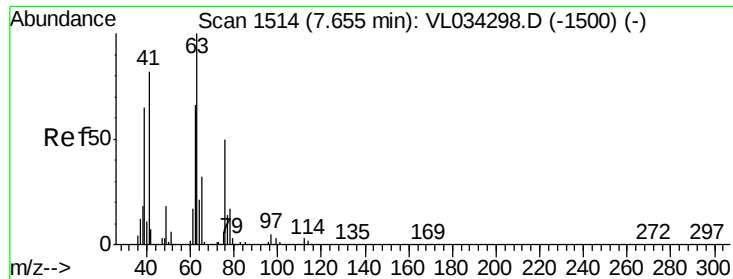
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#38
 Trichloroethene
 Concen: 9.756 ppbv
 RT: 7.89 min Scan# 1587
 Delta R.T. 0.01 min
 Lab File: VL034314.D
 Acq: 17 Oct 2019 9:34

Tgt Ion: 130 Resp: 815781
 Ion Ratio Lower Upper
 130 100
 95 117.8 88.6 132.8
 132 90.0 71.2 106.8
 97 79.9 61.0 91.4





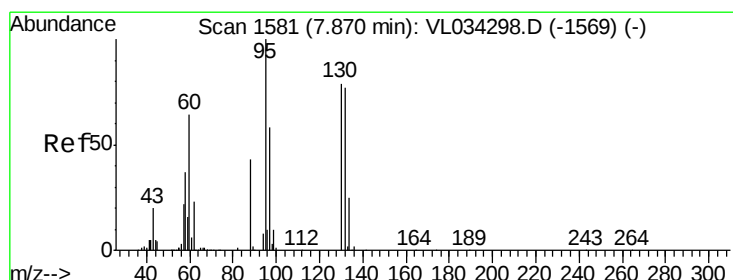
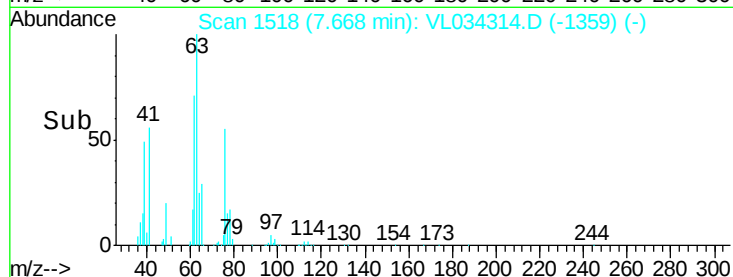
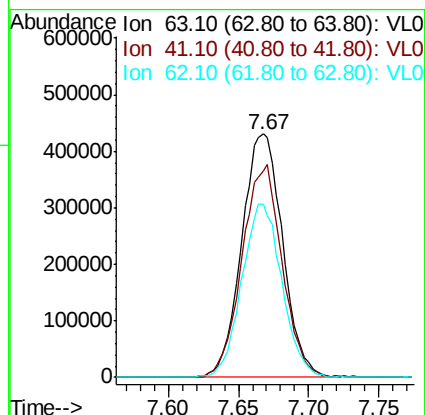
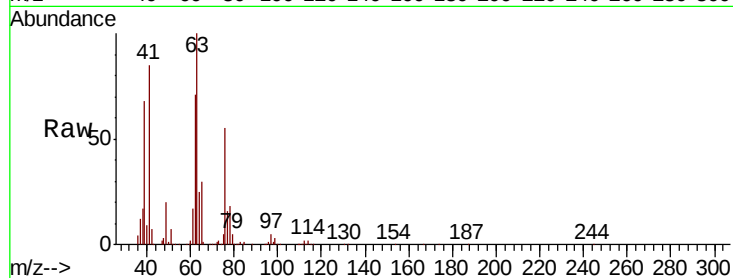
#39
 1,2-Dichloropropane
 Concen: 9.751 ppbv
 RT: 7.67 min Scan# 1518
 Delta R.T. 0.01 min
 Lab File: VL034314.D
 Acq: 17 Oct 2019 9:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
63	100		
41	84.5	65.6	98.4
62	70.9	53.0	79.6

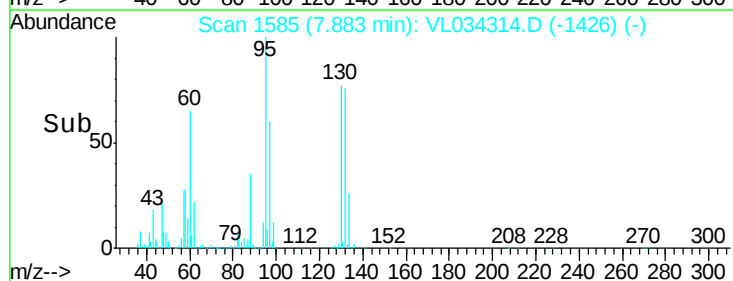
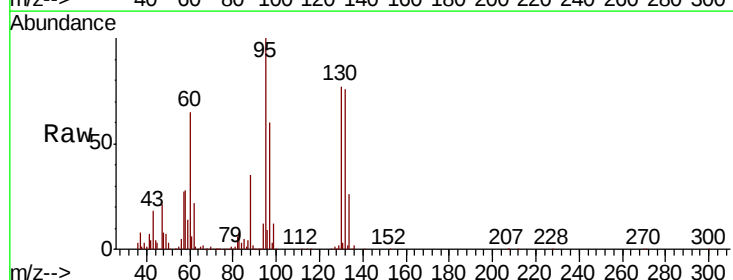
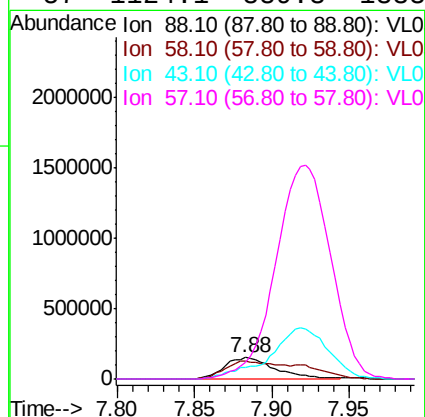
Manual Integrations
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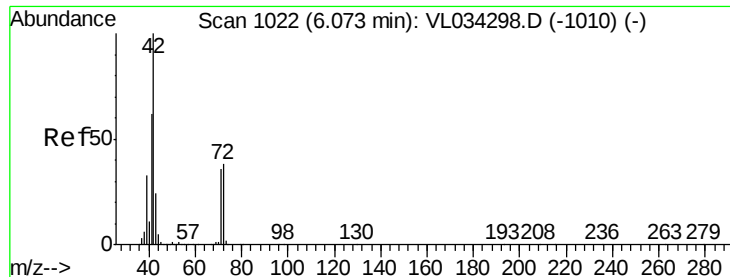
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#40
 1,4-Dioxane
 Concen: 10.588 ppbv
 RT: 7.88 min Scan# 1585
 Delta R.T. 0.01 min
 Lab File: VL034314.D
 Acq: 17 Oct 2019 9:34

Tgt Ion	Ratio	Lower	Upper
88	100		
58	138.2	110.3	165.5
43	285.9	228.1	342.1
57	1124.1	889.3	1333.9





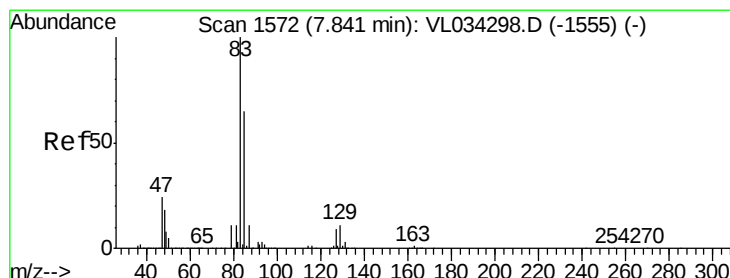
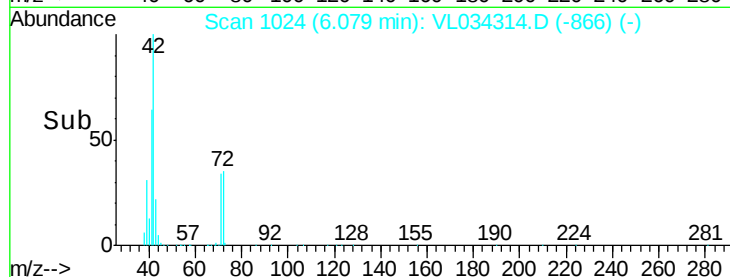
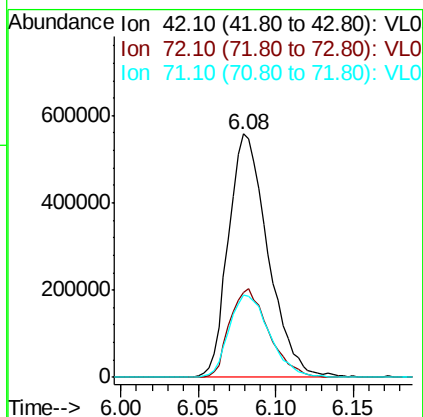
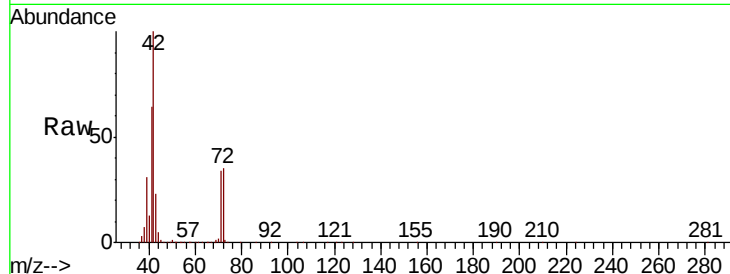
#41
Tetrahydrofuran
Concen: 10.014 ppbv
RT: 6.08 min Scan# 1024
Delta R.T. 0.01 min
Lab File: VL034314.D
Acq: 17 Oct 2019 9:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.4	28.0	42.0
71	34.9	27.3	40.9

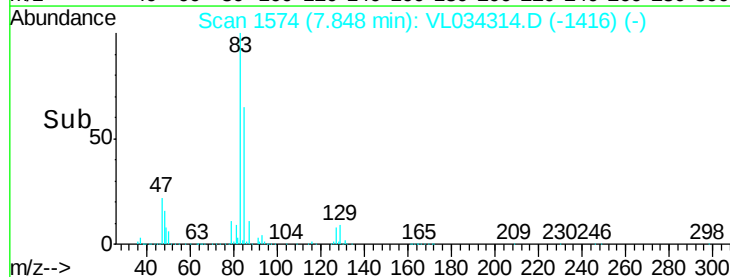
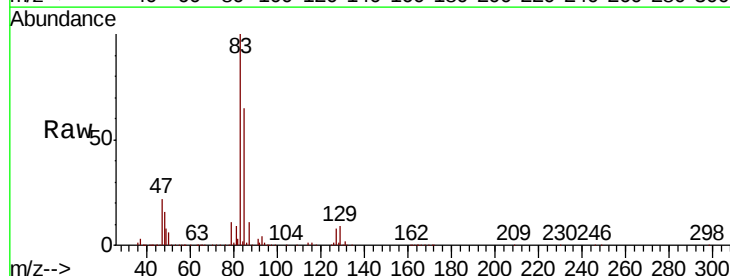
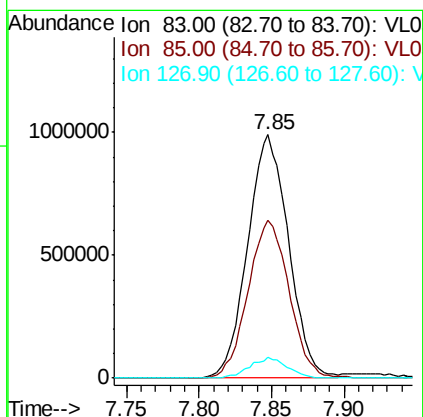
Manual Integrations
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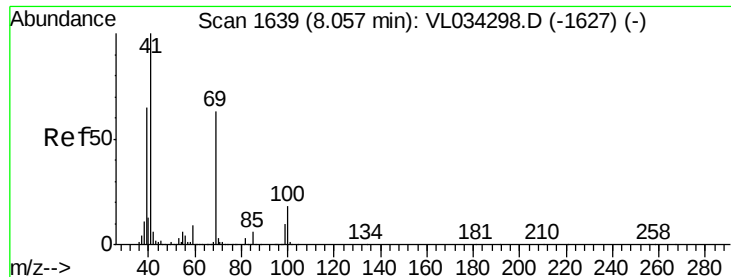
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#42
Bromodichloromethane
Concen: 10.231 ppbv
RT: 7.85 min Scan# 1574
Delta R.T. 0.01 min
Lab File: VL034314.D
Acq: 17 Oct 2019 9:34

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.8	51.8	77.6
127	8.3	7.0	10.6





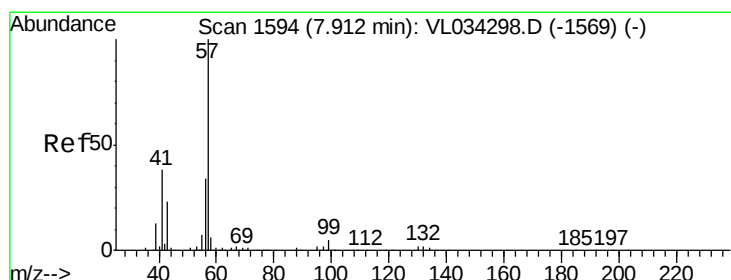
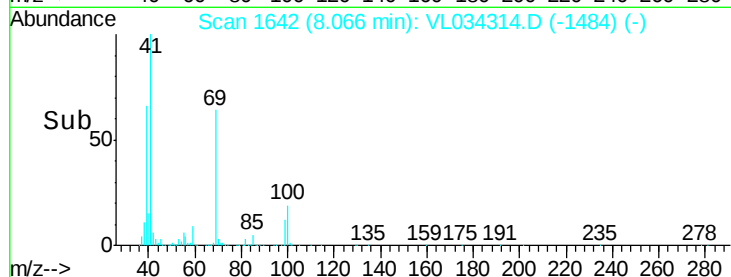
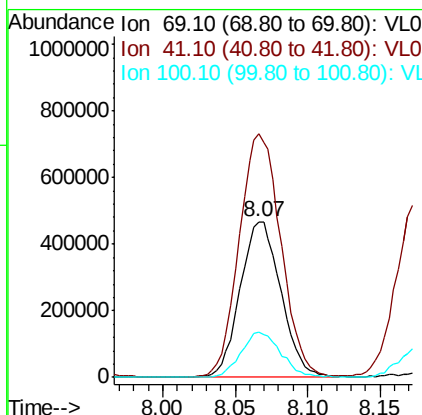
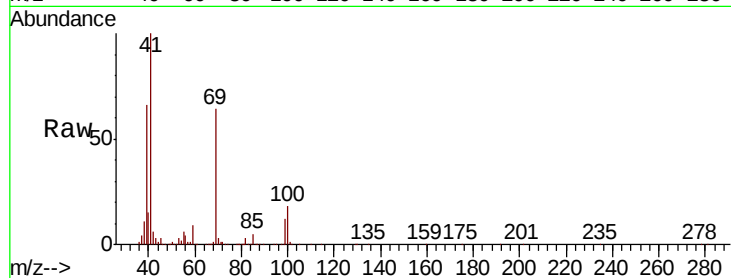
#43
Methvl Methacrvlate
Concen: 10.615 ppbv
RT: 8.07 min Scan# 1642
Delta R.T. 0.01 min
Lab File: VL034314.D
Acq: 17 Oct 2019 9:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	160.4	132.1	198.1	
100	28.4	23.2	34.8	

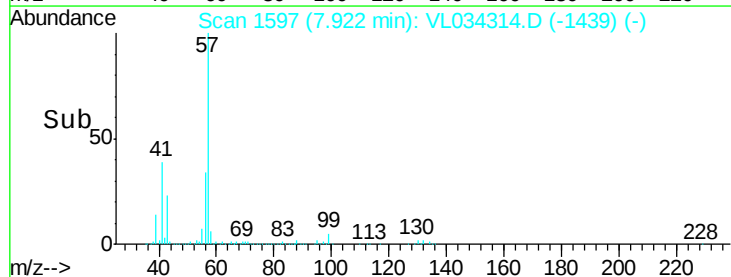
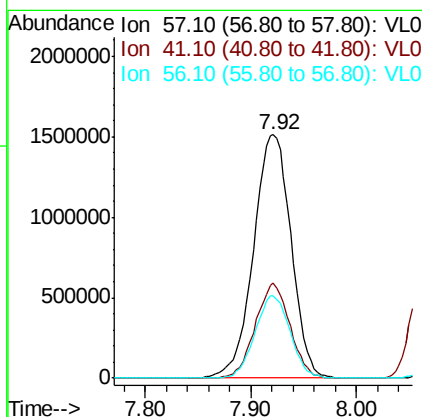
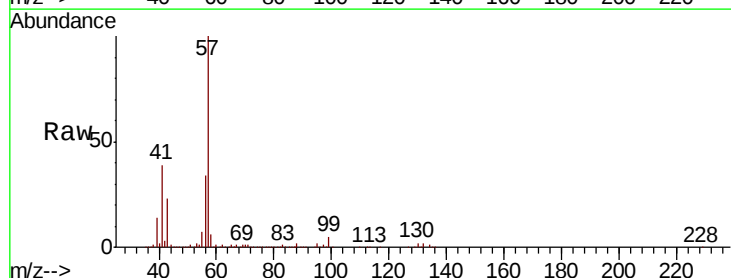
Manual Integrations
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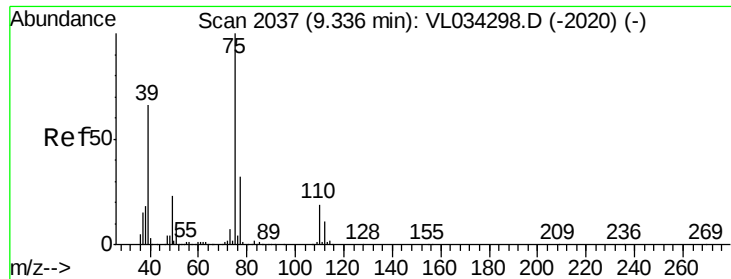
MMDadoda
10/18/2019 3:05:17 PM



#44
2,2,4-Trimethylpentane
Concen: 9.715 ppbv
RT: 7.92 min Scan# 1597
Delta R.T. 0.01 min
Lab File: VL034314.D
Acq: 17 Oct 2019 9:34

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	36.0	29.3	43.9	
56	31.7	25.3	37.9	





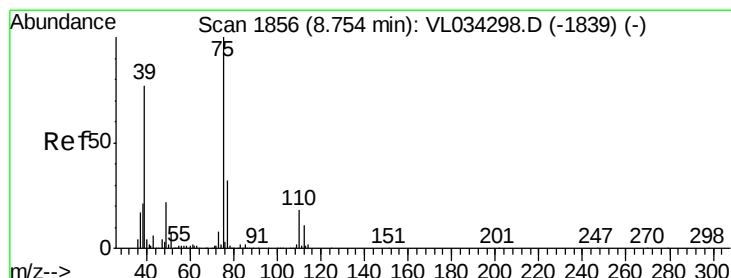
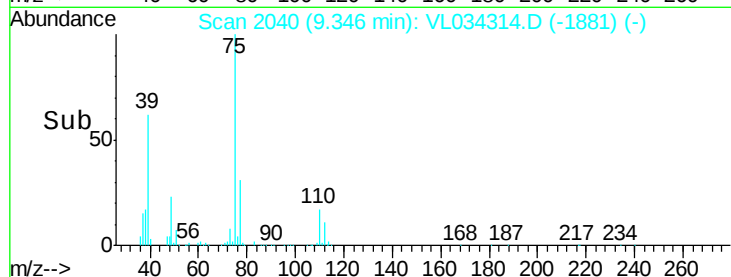
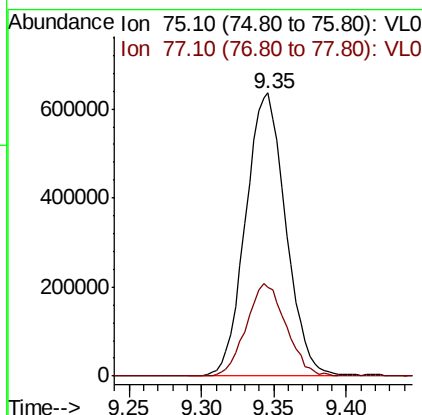
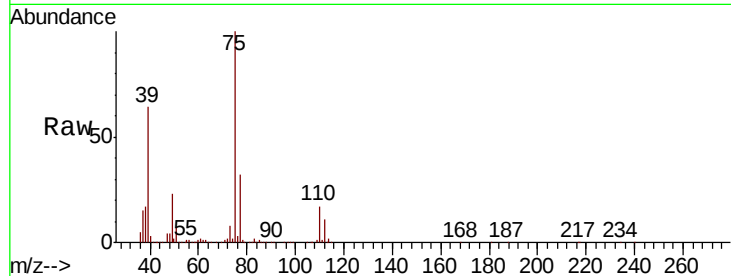
#45
t-1,3-Dichloropropene
Concen: 11.669 ppbv
RT: 9.35 min Scan# 2040
Delta R.T. 0.01 min
Lab File: VL034314.D
Acq: 17 Oct 2019 9:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 75 Resp: 1225288
Ion Ratio Lower Upper
75 100
77 31.5 25.6 38.4

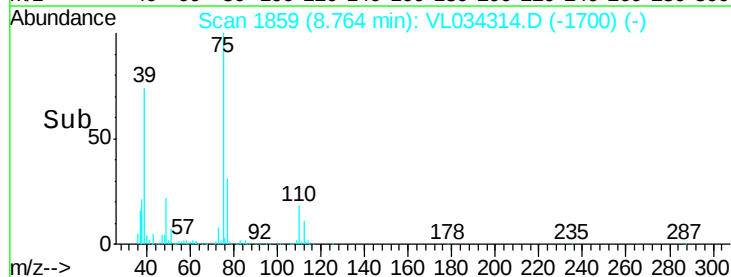
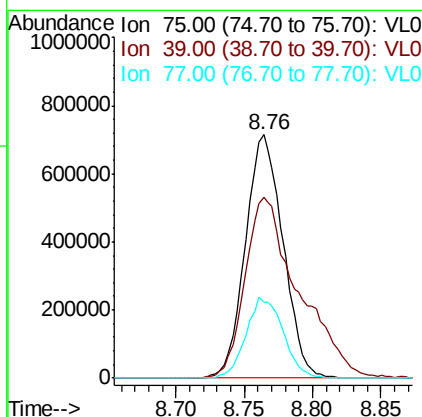
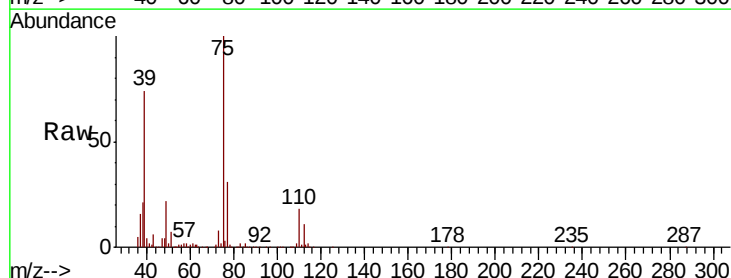
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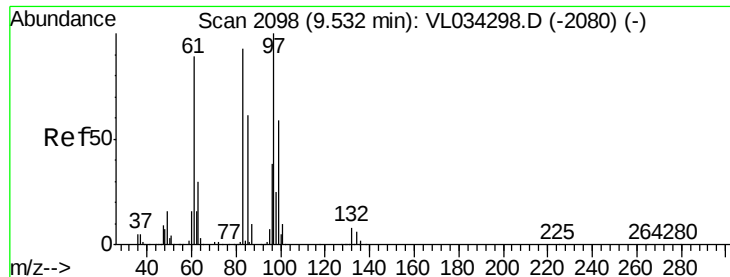
MMDadoda
10/18/2019 3:05:17 PM



#46
cis-1,3-Dichloropropene
Concen: 11.352 ppbv
RT: 8.76 min Scan# 1859
Delta R.T. 0.01 min
Lab File: VL034314.D
Acq: 17 Oct 2019 9:34

Tgt Ion: 75 Resp: 1369503
Ion Ratio Lower Upper
75 100
39 74.4 61.2 91.8
77 31.2 25.9 38.9





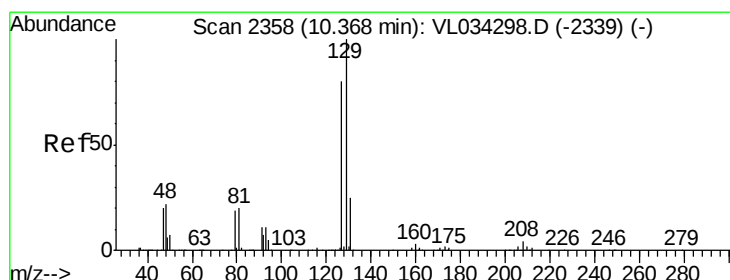
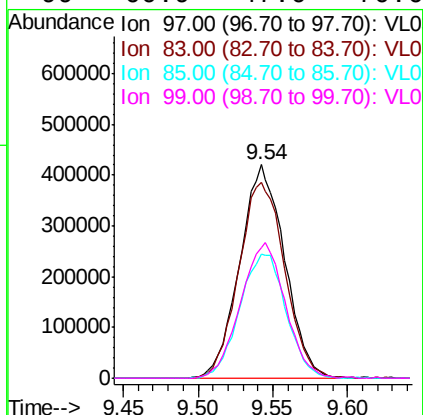
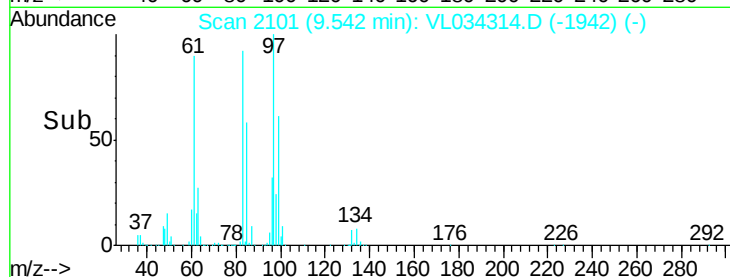
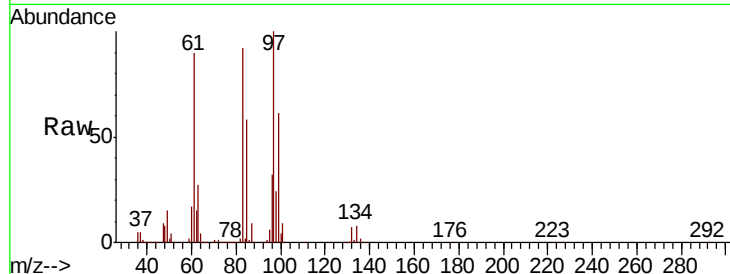
#47
 1,1,2-Trichloroethane
 Concen: 9.619 ppbv
 RT: 9.54 min Scan# 2101
 Delta R.T. 0.01 min
 Lab File: VL034314.D
 Acq: 17 Oct 2019 9:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	91.5	74.2	111.2	
85	58.3	48.6	73.0	
99	60.9	47.0	70.6	

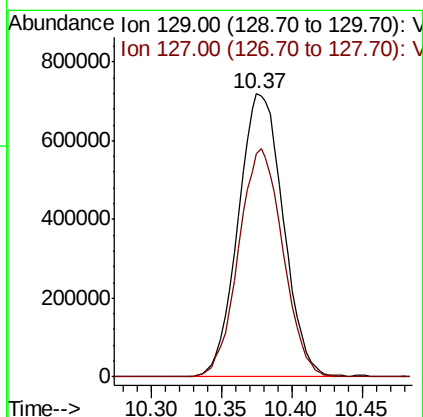
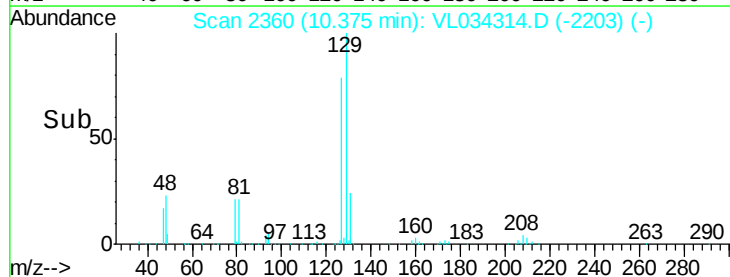
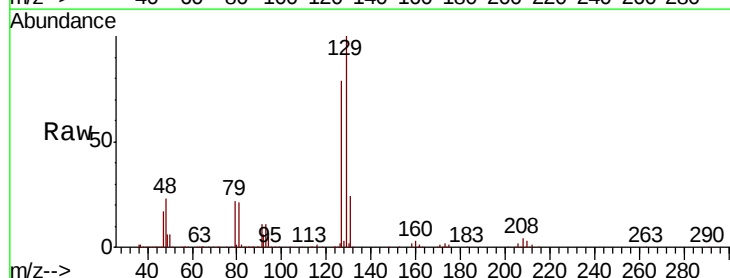
Manual Integrations
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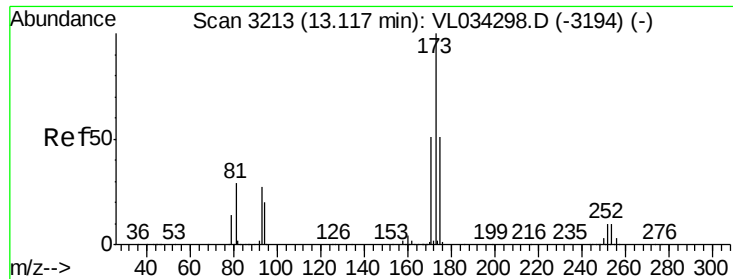
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#48
 Dibromochloromethane
 Concen: 10.787 ppbv
 RT: 10.37 min Scan# 2360
 Delta R.T. 0.01 min
 Lab File: VL034314.D
 Acq: 17 Oct 2019 9:34

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	79.3	39.7	119.1	





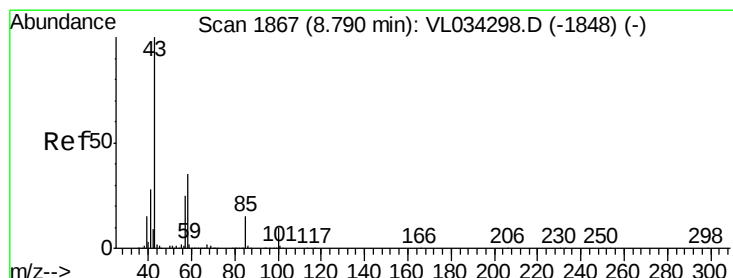
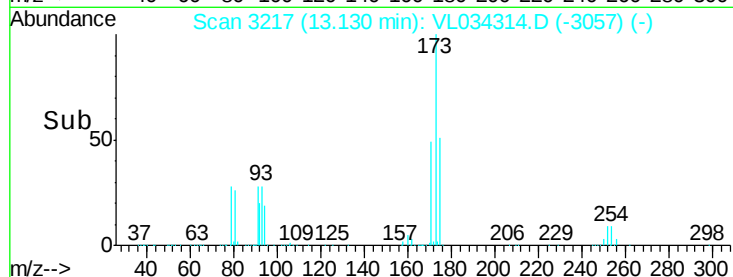
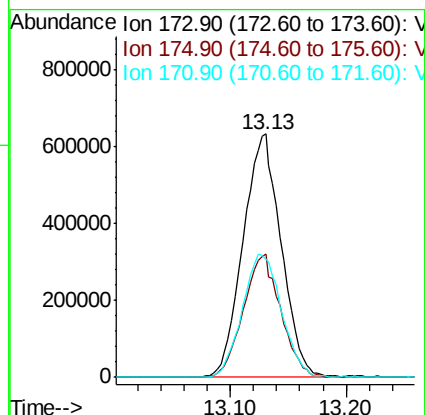
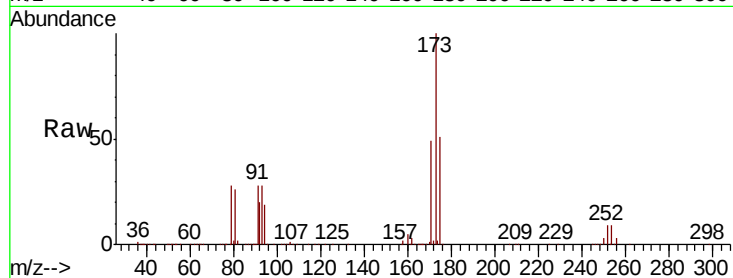
#49
Bromoform
Concen: 10.942 ppbv
RT: 13.13 min Scan# 3217
Delta R.T. 0.01 min
Lab File: VL034314.D
Acq: 17 Oct 2019 9:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:173 Resp: 1445495
Ion Ratio Lower Upper
173 100
175 49.9 39.8 59.6
171 52.1 41.8 62.6

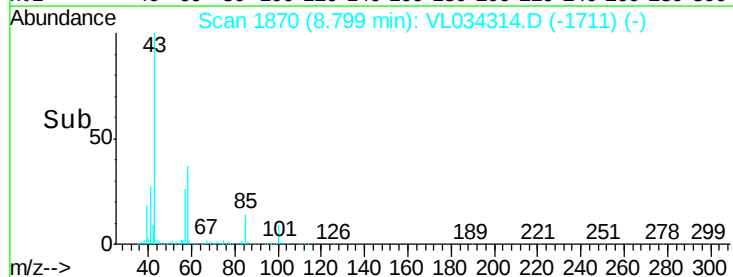
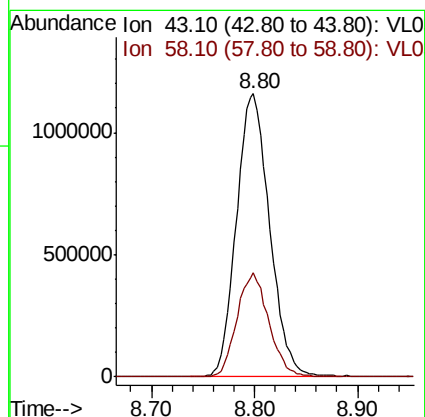
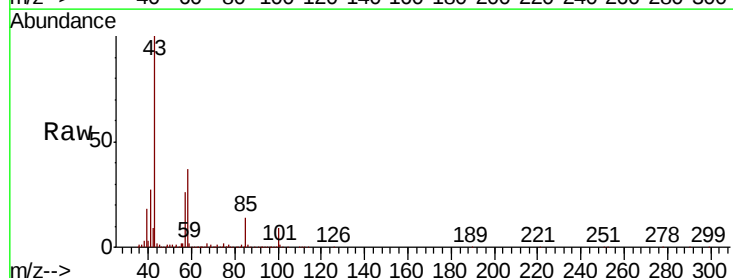
Manual Integrations
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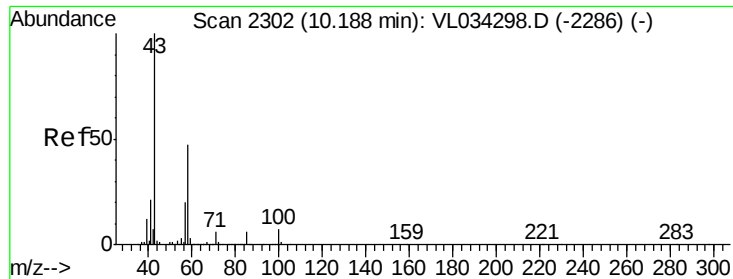
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 10.228 ppbv
RT: 8.80 min Scan# 1870
Delta R.T. 0.01 min
Lab File: VL034314.D
Acq: 17 Oct 2019 9:34

Tgt Ion: 43 Resp: 2599378
Ion Ratio Lower Upper
43 100
58 35.2 27.6 41.4





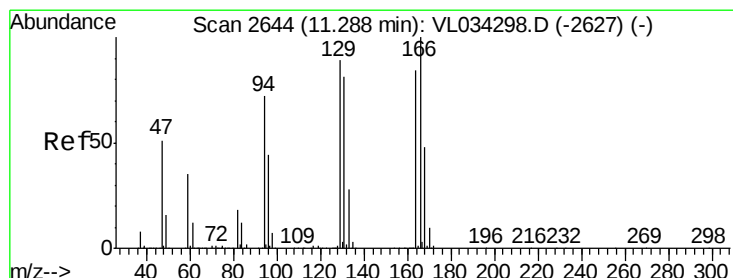
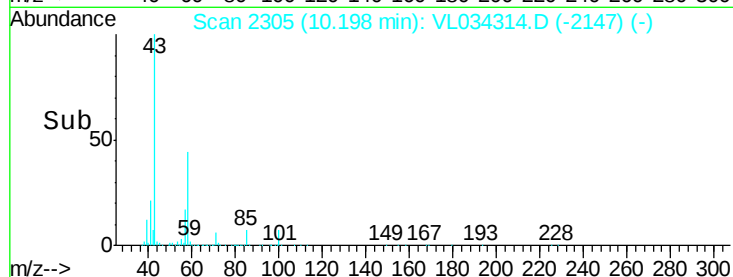
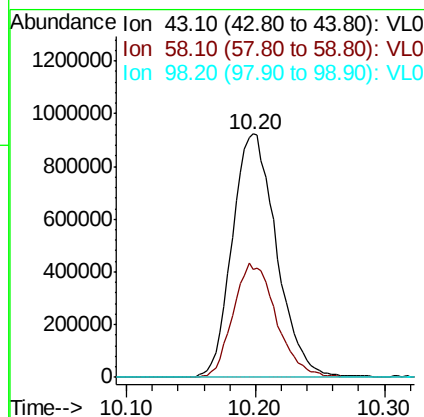
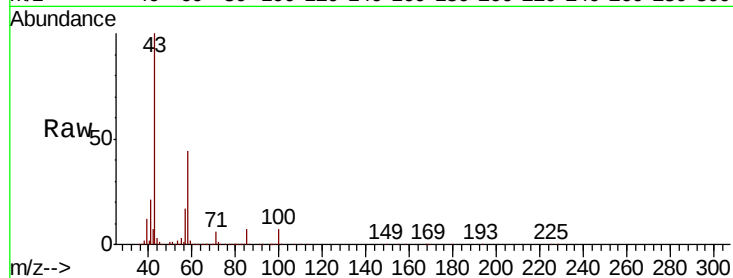
#51
2-Hexanone
Concen: 10.528 ppbv
RT: 10.20 min Scan# 2305
Delta R.T. 0.01 min
Lab File: VL034314.D
Acq: 17 Oct 2019 9:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
43	100		
58	46.0	37.0	55.6
98	0.2	0.2	0.2

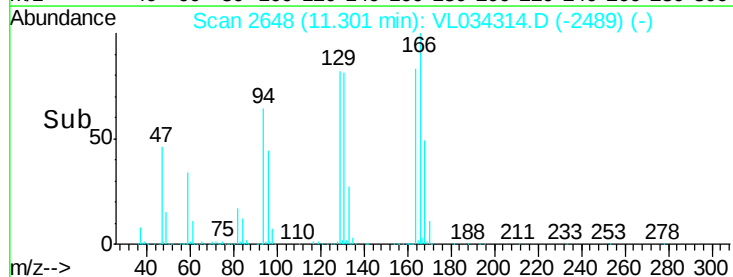
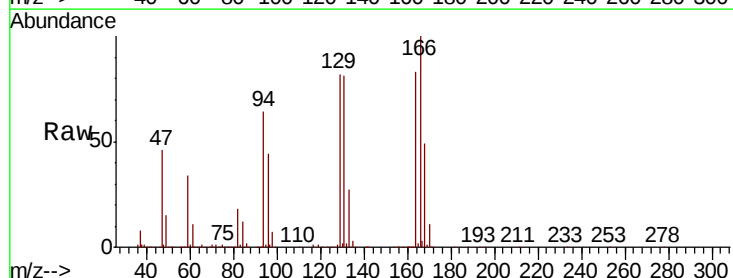
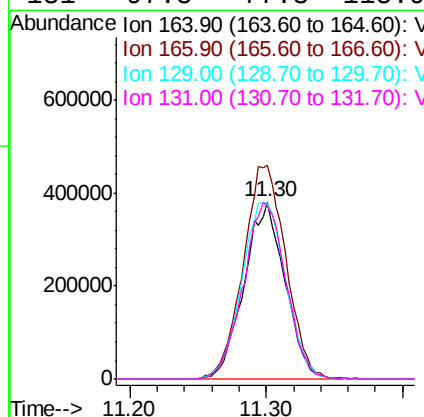
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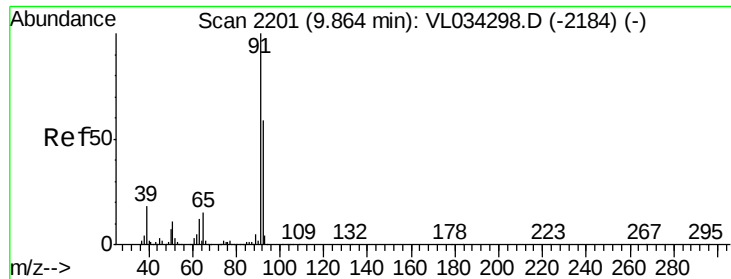
MMDadoda
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#52
Tetrachloroethene
Concen: 9.635 ppbv m
RT: 11.30 min Scan# 2648
Delta R.T. 0.01 min
Lab File: VL034314.D
Acq: 17 Oct 2019 9:34

Tgt Ion	Ratio	Lower	Upper
164	100		
166	120.7	95.3	142.9
129	99.5	84.5	126.7
131	97.5	77.3	115.9





#53

Toluene

Concen: 10.308 ppbv

RT: 9.87 min Scan# 2204

Delta R.T. 0.01 min

Lab File: VL034314.D

Acq: 17 Oct 2019 9:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2370414

Ion Ratio Lower Upper

91 100

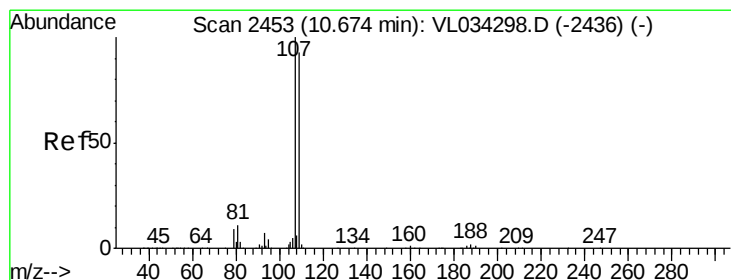
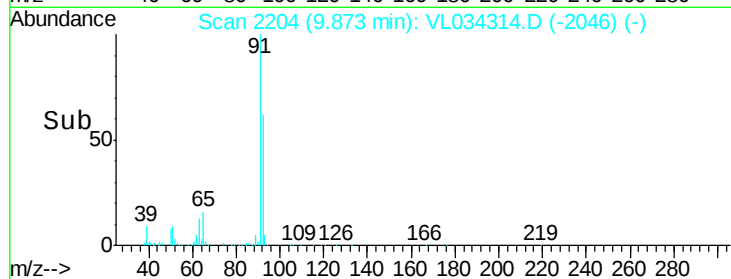
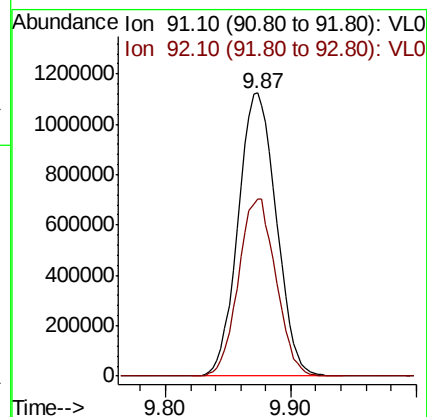
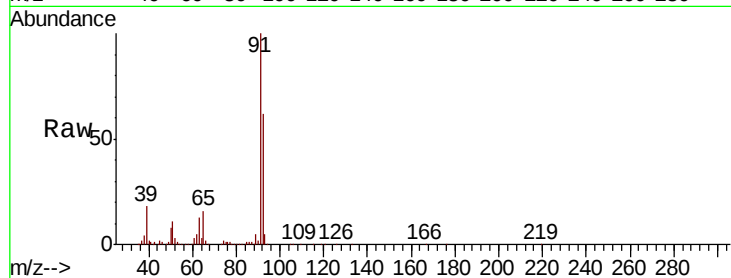
92 61.8 48.4 72.6

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 10.075 ppbv

RT: 10.68 min Scan# 2456

Delta R.T. 0.01 min

Lab File: VL034314.D

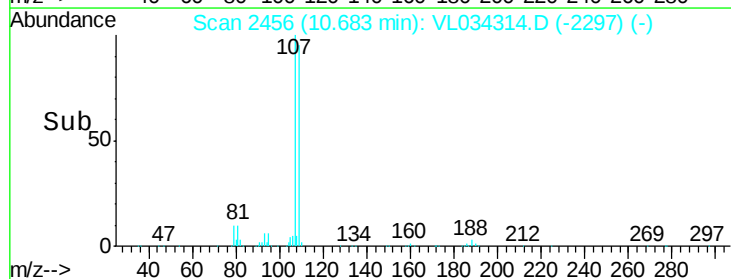
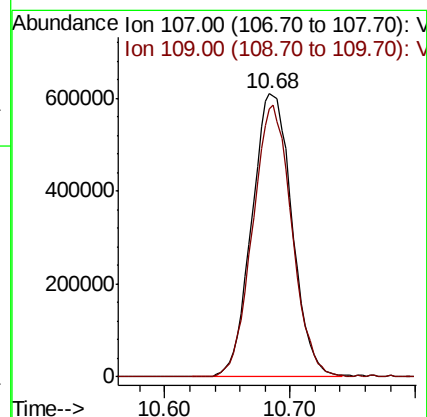
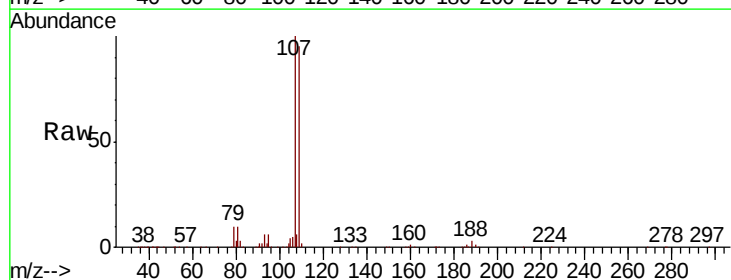
Acq: 17 Oct 2019 9:34

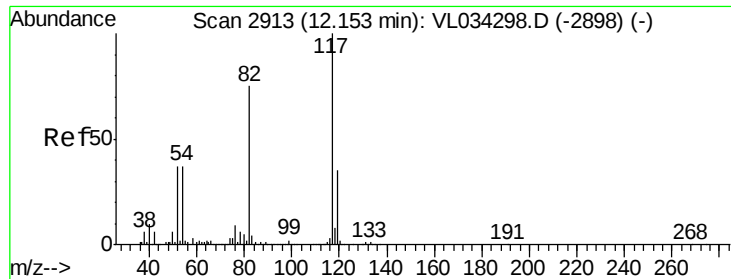
Tgt Ion: 107 Resp: 1357134

Ion Ratio Lower Upper

107 100

109 94.7 74.6 112.0





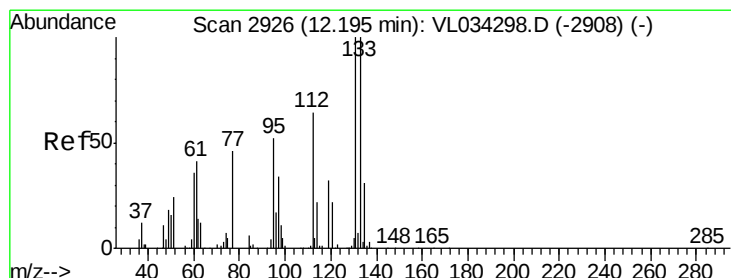
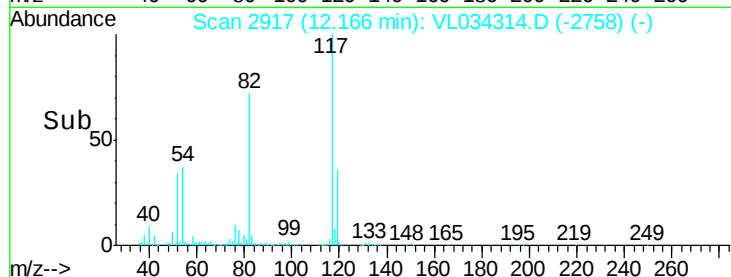
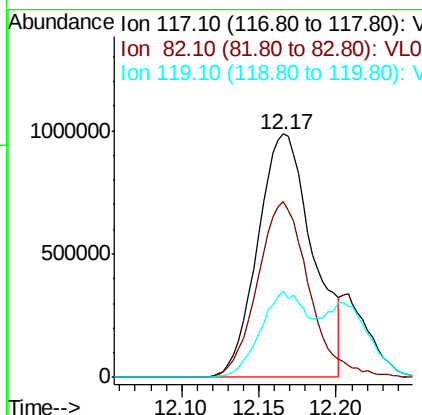
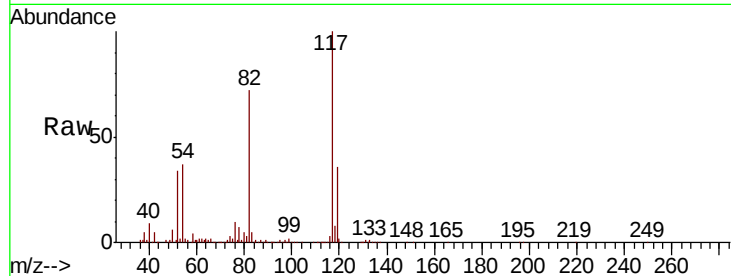
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.17 min Scan# 2917
Delta R.T. 0.01 min
Lab File: VL034314.D
Acq: 17 Oct 2019 9:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	67.9	55.5	83.3
119	31.5	26.5	39.7

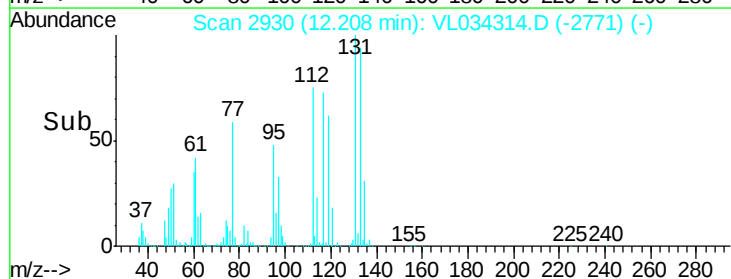
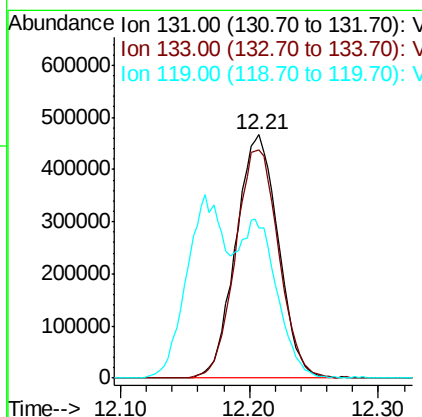
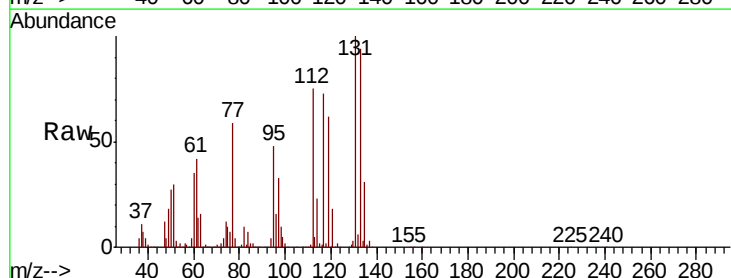
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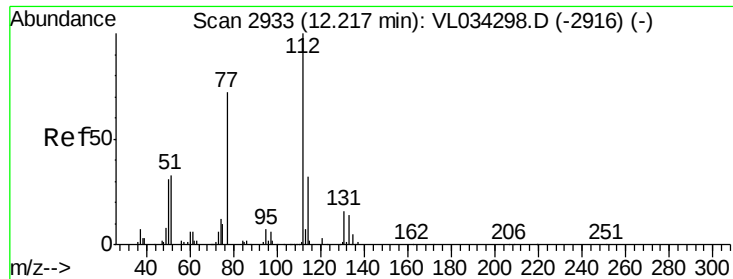
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.448 ppbv
RT: 12.21 min Scan# 2930
Delta R.T. 0.01 min
Lab File: VL034314.D
Acq: 17 Oct 2019 9:34

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.5	77.1	115.7
119	56.5	49.0	73.4





#57

Chlorobenzene

Concen: 9.031 ppbv

RT: 12.22 min Scan# 2935

Delta R.T. 0.01 min

Lab File: VL034314.D

Acq: 17 Oct 2019 9:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:112 Resp: 1838330

Ion Ratio Lower Upper

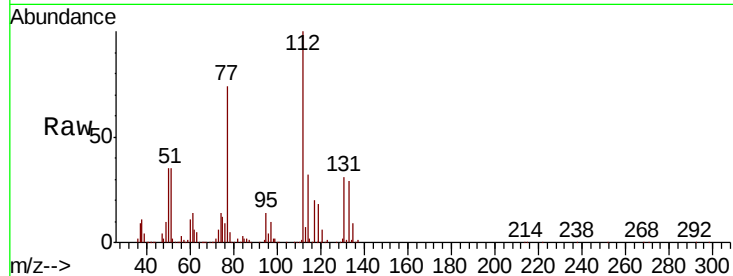
112 100

77 73.6 58.6 88.0

114 31.9 28.6 35.0

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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V

1000000

800000

600000

400000

200000

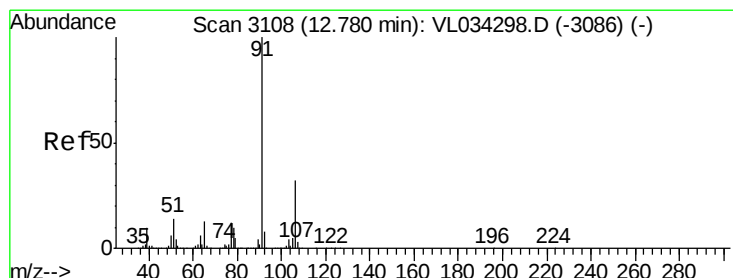
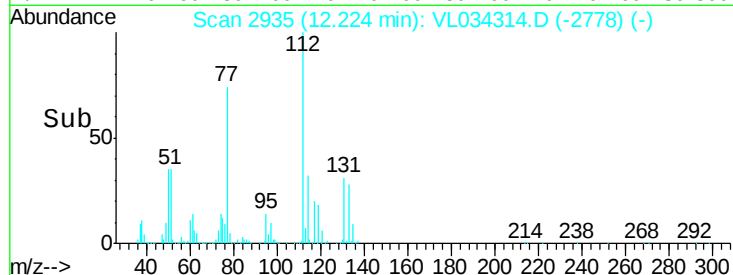
0

12.22

12.20

12.30

Time-->



#58

Ethyl Benzene

Concen: 9.661 ppbv

RT: 12.79 min Scan# 3112

Delta R.T. 0.01 min

Lab File: VL034314.D

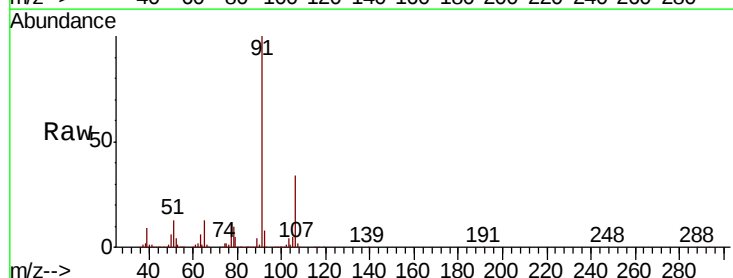
Acq: 17 Oct 2019 9:34

Tgt Ion: 91 Resp: 3294954

Ion Ratio Lower Upper

91 100

106 33.5 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

1500000

1000000

500000

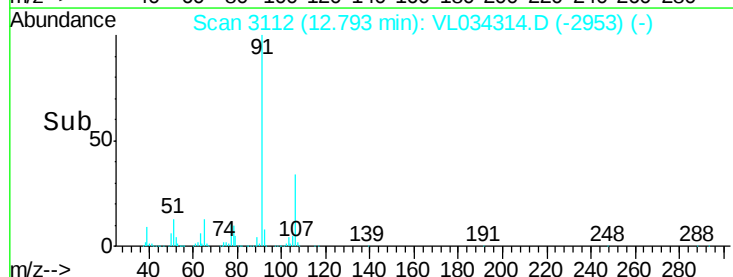
0

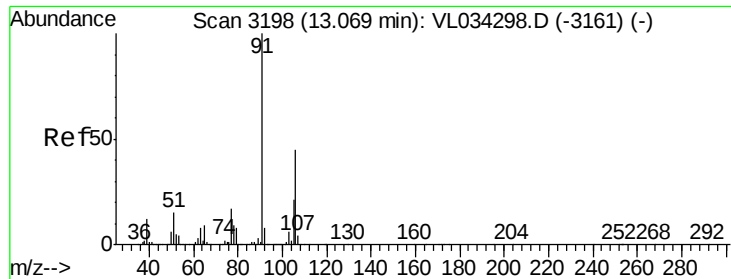
12.79

12.70

12.80

Time-->





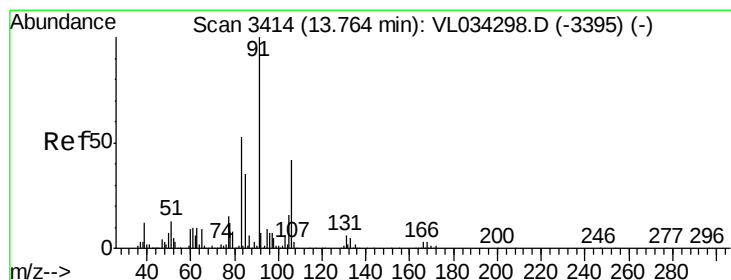
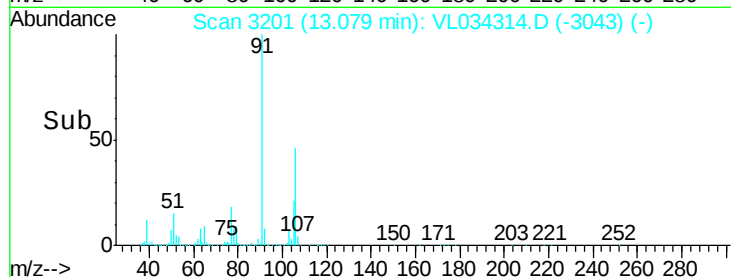
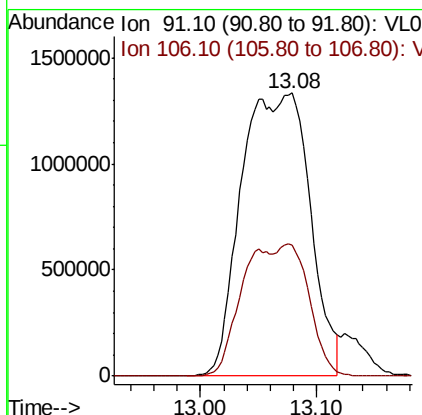
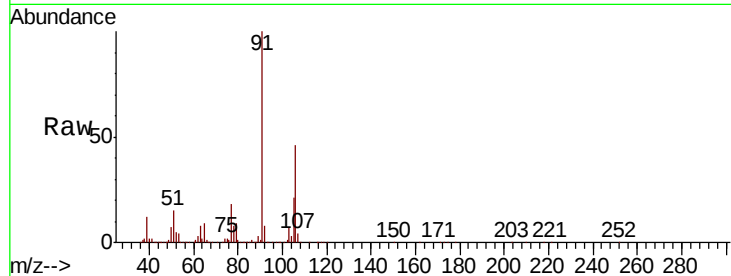
#59
m/p-Xylene
Concen: 18.461 ppbv m
RT: 13.08 min Scan# 3201
Delta R.T. 0.01 min
Lab File: VL034314.D
Acq: 17 Oct 2019 9:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 5455393
Ion Ratio Lower Upper
91 100
106 45.0 35.4 53.2

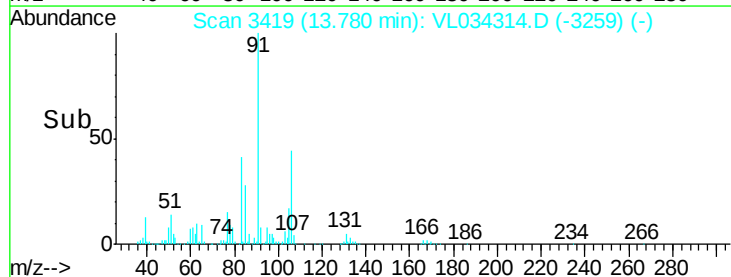
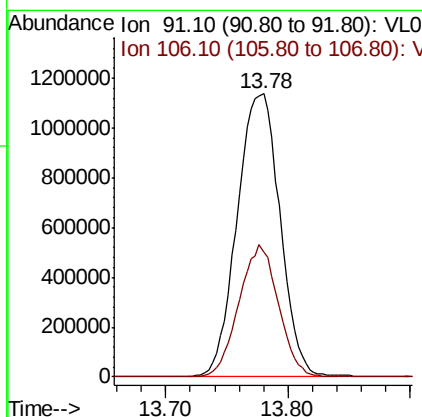
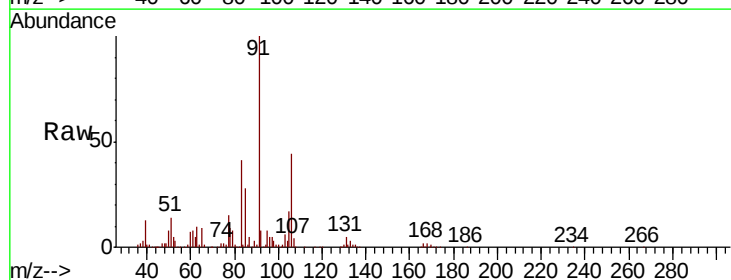
Manual Integrations
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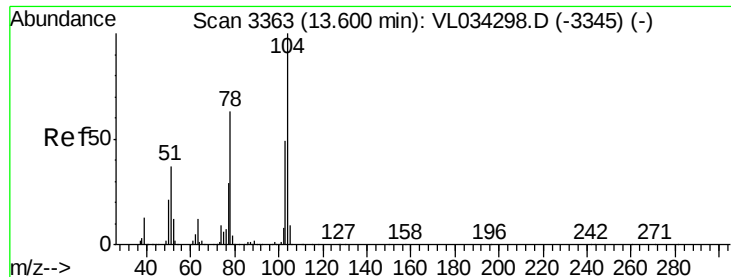
MMDadoda
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#60
o-Xylene
Concen: 9.394 ppbv
RT: 13.78 min Scan# 3419
Delta R.T. 0.02 min
Lab File: VL034314.D
Acq: 17 Oct 2019 9:34

Tgt Ion: 91 Resp: 2764454
Ion Ratio Lower Upper
91 100
106 43.0 21.6 64.6





#61

Stvrene

Concen: 9.991 ppbv

RT: 13.61 min Scan# 3366

Delta R.T. 0.01 min

Lab File: VL034314.D

Acq: 17 Oct 2019 9:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:104 Resp: 2069789

Ion Ratio Lower Upper

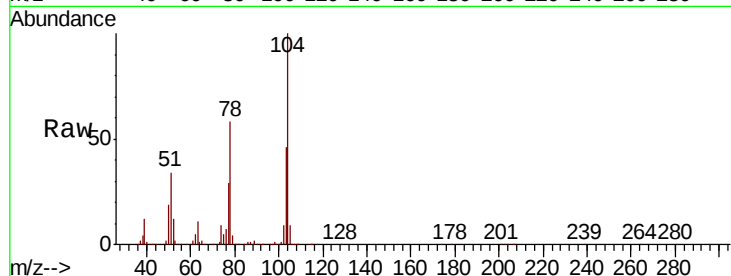
104 100

78 58.9 47.8 71.8

103 48.5 39.0 58.6

Manual Integrations
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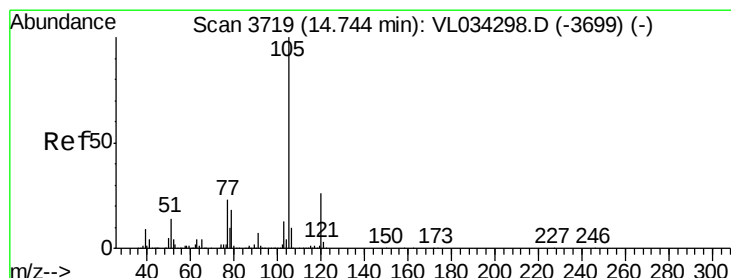
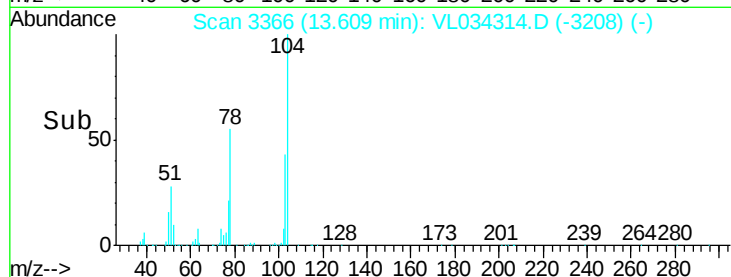
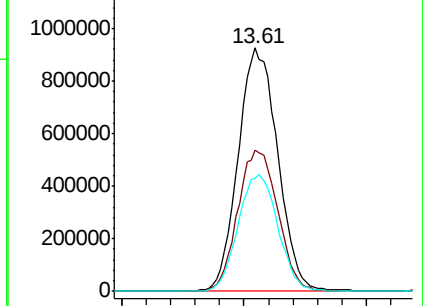
MMDadoda
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Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 9.199 ppbv

RT: 14.75 min Scan# 3722

Delta R.T. 0.01 min

Lab File: VL034314.D

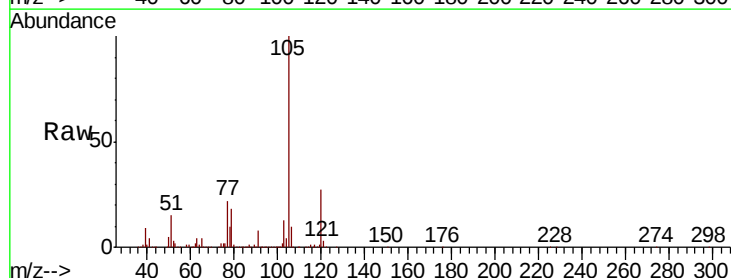
Acq: 17 Oct 2019 9:34

Tgt Ion:105 Resp: 3573389

Ion Ratio Lower Upper

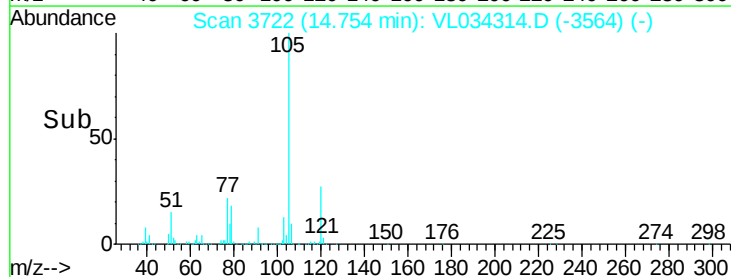
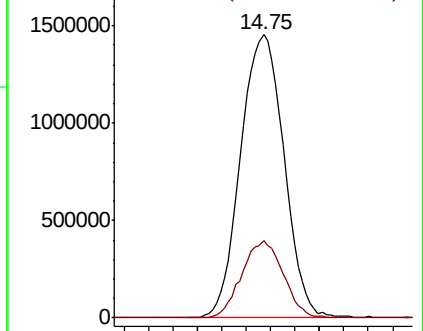
105 100

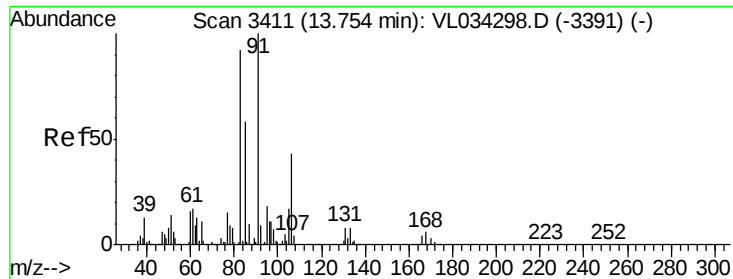
120 26.2 20.8 31.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 8.090 ppbv

RT: 13.77 min Scan# 3415

Delta R.T. 0.01 min

Lab File: VL034314.D

Acq: 17 Oct 2019 9:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 83 Resp: 1913023

Ion Ratio Lower Upper

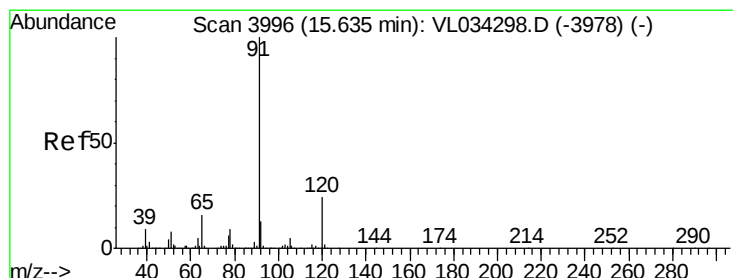
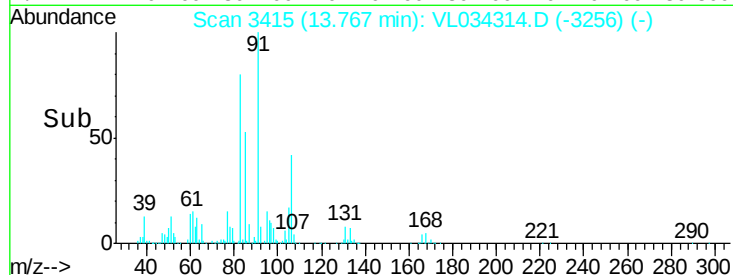
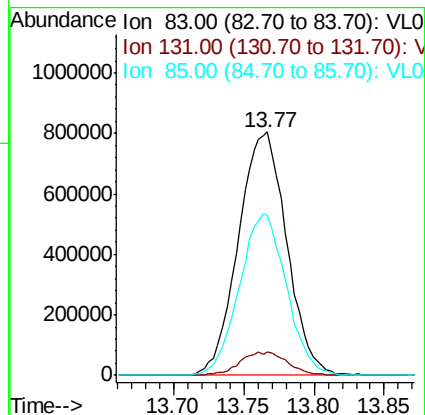
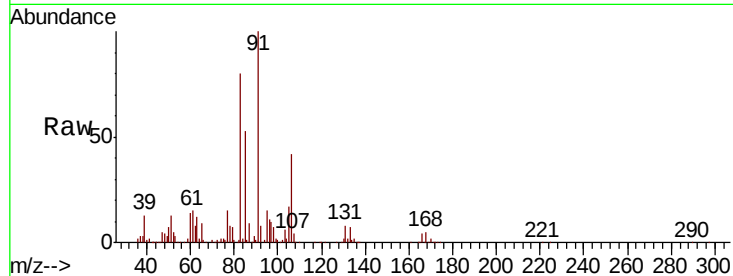
83 100

131 9.6 4.8 14.4

85 65.5 32.5 97.4

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#64

n-propylbenzene

Concen: 9.496 ppbv

RT: 15.65 min Scan# 4001

Delta R.T. 0.02 min

Lab File: VL034314.D

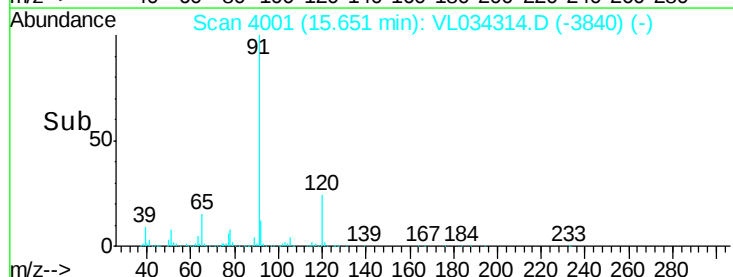
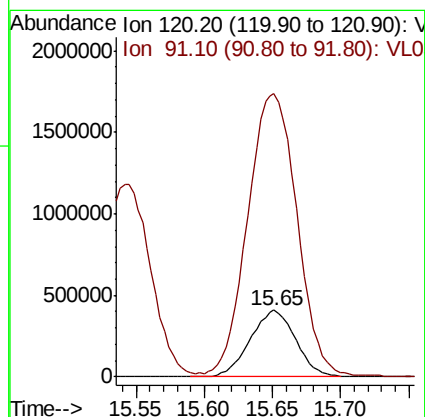
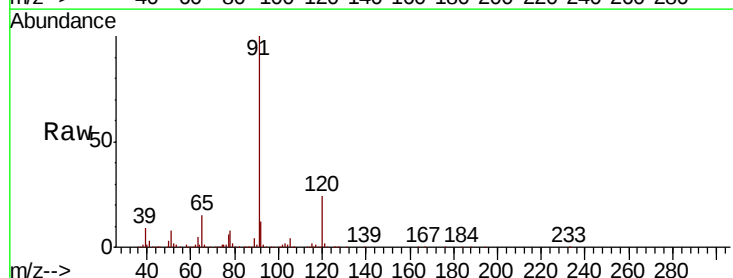
Acq: 17 Oct 2019 9:34

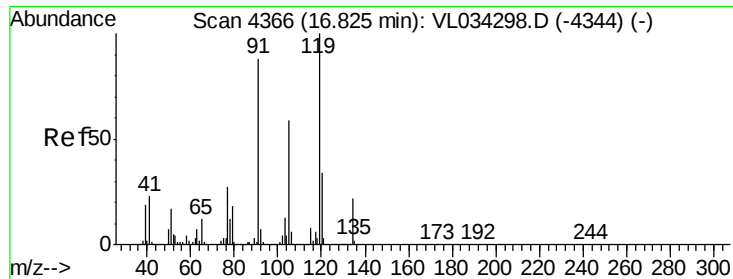
Tgt Ion: 120 Resp: 946670

Ion Ratio Lower Upper

120 100

91 463.6 374.9 562.3





#65

tert-Butylbenzene

Concen: 9.091 ppbv

RT: 16.84 min Scan# 4370

Delta R.T. 0.01 min

Lab File: VL034314.D

Acq: 17 Oct 2019 9:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:119 Resp: 3130067

Ion Ratio Lower Upper

119 100

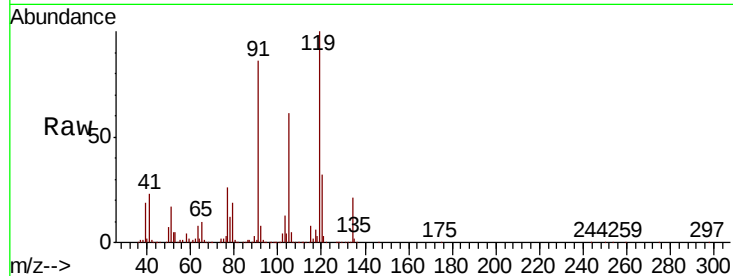
91 90.1 71.4 107.0

134 19.9 15.9 23.9

Manual Integrations
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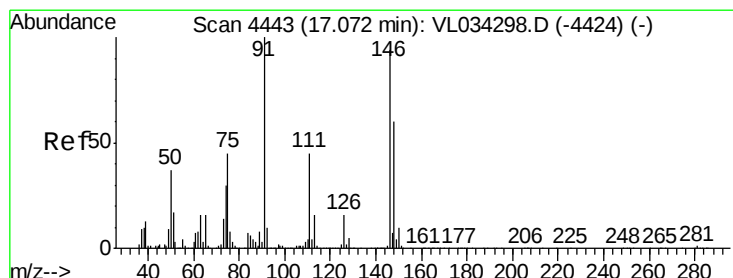
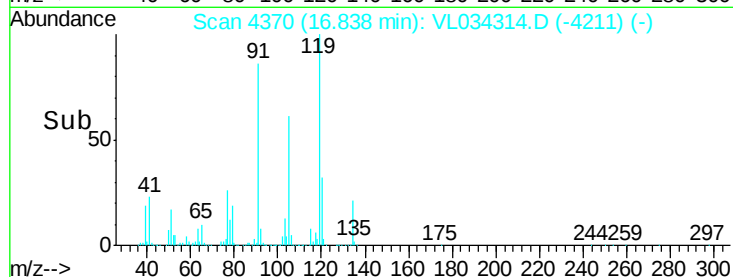
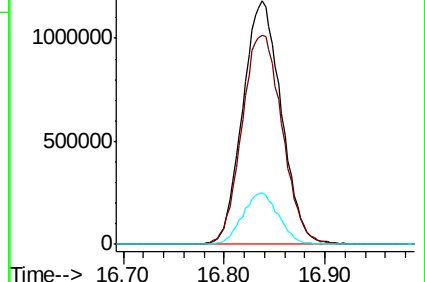
10/18/2019 3:05:17 PM



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



#66

Benzyl Chloride

Concen: 10.952 ppbv

RT: 17.09 min Scan# 4447

Delta R.T. 0.01 min

Lab File: VL034314.D

Acq: 17 Oct 2019 9:34

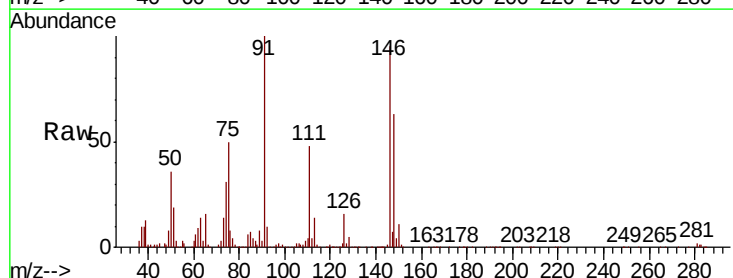
Tgt Ion: 91 Resp: 1489216

Ion Ratio Lower Upper

91 100

126 16.1 12.9 19.3

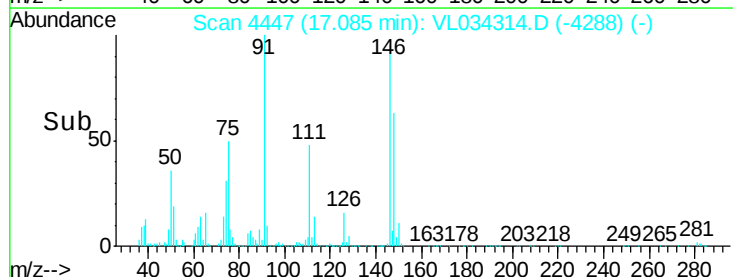
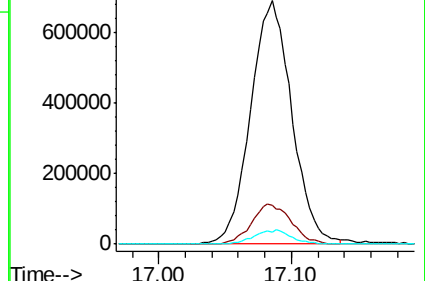
128 5.3 4.3 6.5

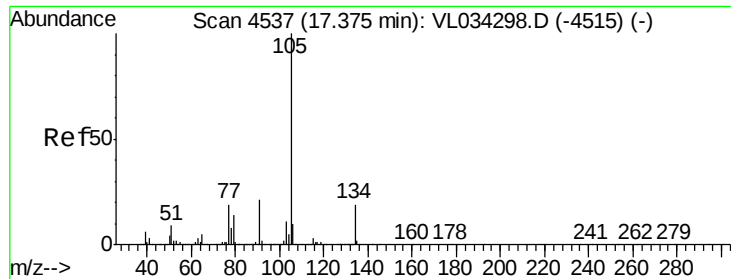


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.013 ppbv

RT: 17.38 min Scan# 4540

Delta R.T. 0.01 min

Lab File: VL034314.D

Acq: 17 Oct 2019 9:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 4366669

Ion Ratio Lower Upper

105 100

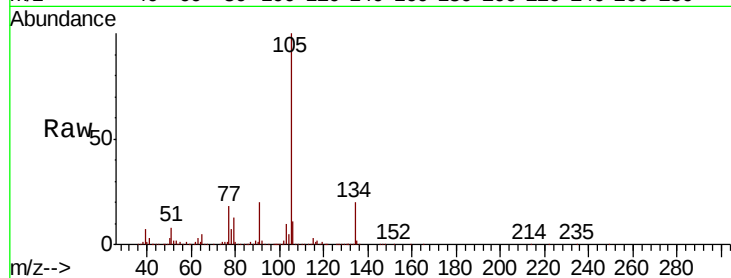
134 18.9 15.4 23.0

Manual Integrations

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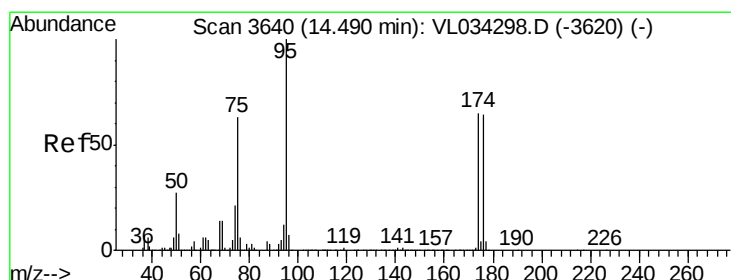
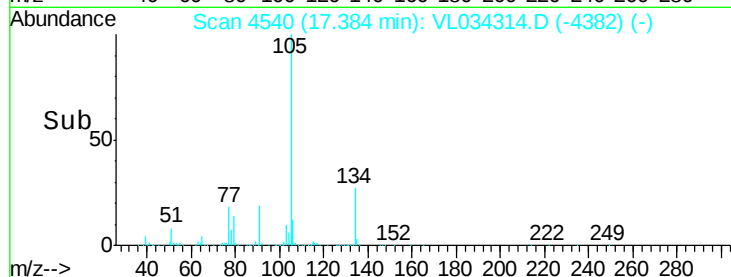
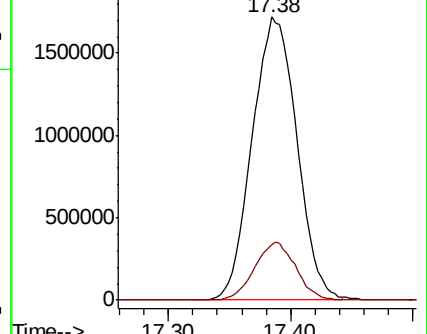
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.543 ppbv

RT: 14.50 min Scan# 3643

Delta R.T. 0.01 min

Lab File: VL034314.D

Acq: 17 Oct 2019 9:34

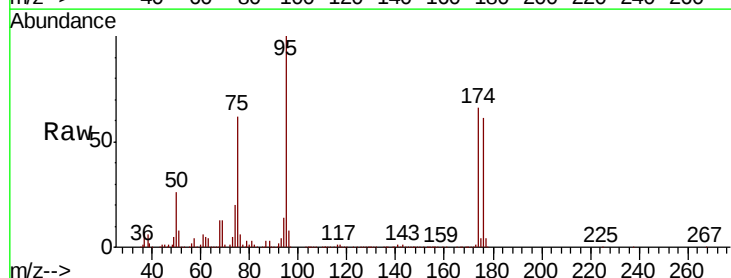
Tgt Ion: 95 Resp: 1971962

Ion Ratio Lower Upper

95 100

174 65.8 52.6 78.8

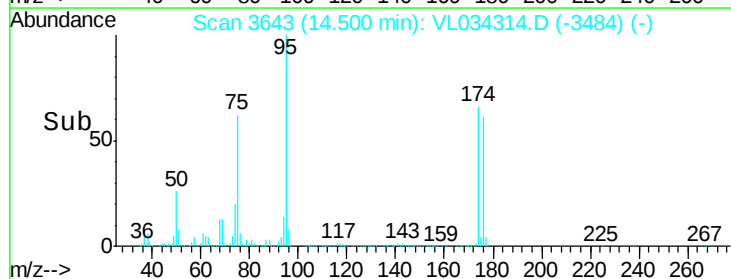
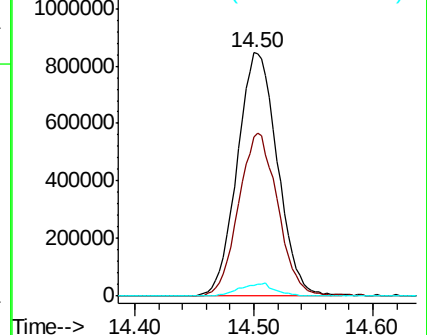
175 4.8 3.8 5.6

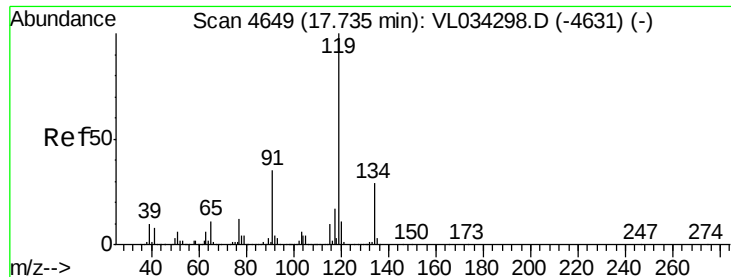


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





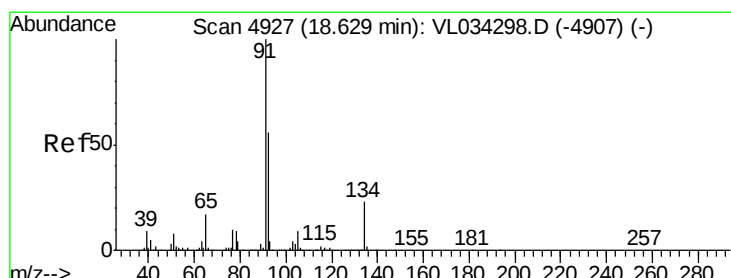
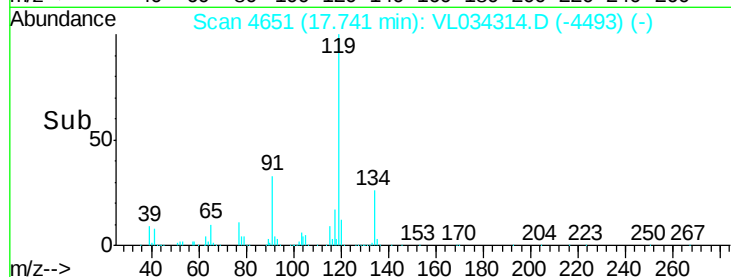
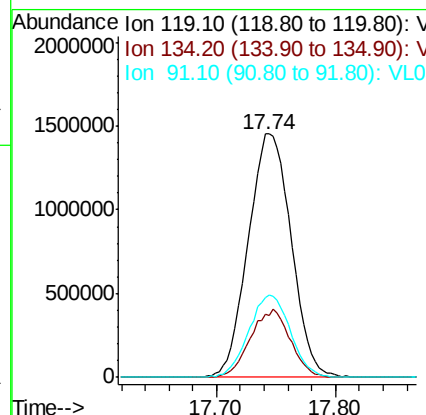
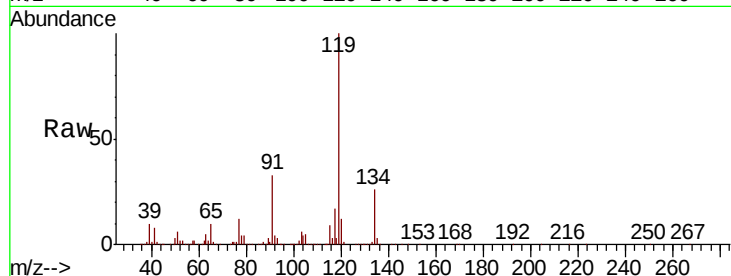
#69
 p-Isopropyltoluene
 Concen: 9.181 ppbv
 RT: 17.74 min Scan# 4651
 Delta R.T. 0.01 min
 Lab File: VL034314.D
 Acq: 17 Oct 2019 9:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.1	21.3	31.9
91	32.9	26.6	39.8

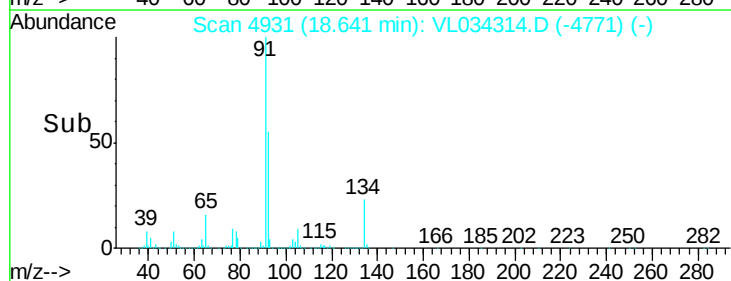
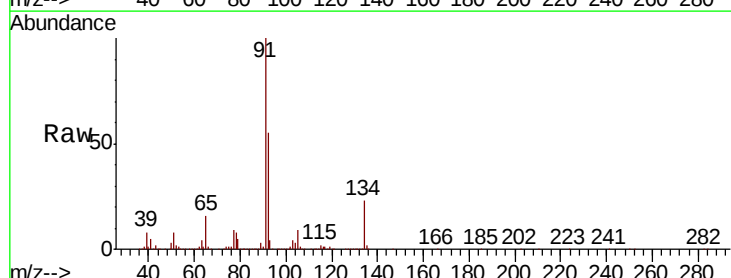
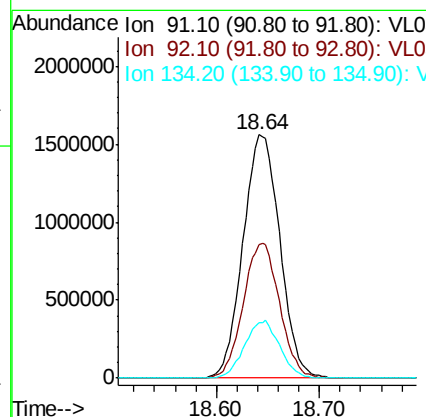
Manual Integrations
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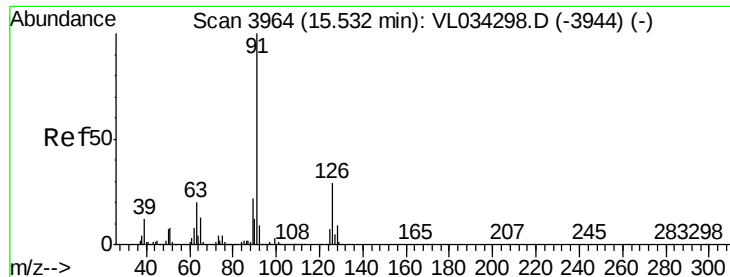
MMDadoda
 10/18/2019 3:05:17 PM



#70
 n-Butylbenzene
 Concen: 9.012 ppbv
 RT: 18.64 min Scan# 4931
 Delta R.T. 0.01 min
 Lab File: VL034314.D
 Acq: 17 Oct 2019 9:34

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.8	44.5	66.7
134	22.5	18.2	27.2





#71

2-Chlorotoluene

Concen: 9.418 ppbv

RT: 15.55 min Scan# 3968

Delta R.T. 0.01 min

Lab File: VL034314.D

Acq: 17 Oct 2019 9:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2836636

Ion Ratio Lower Upper

91 100

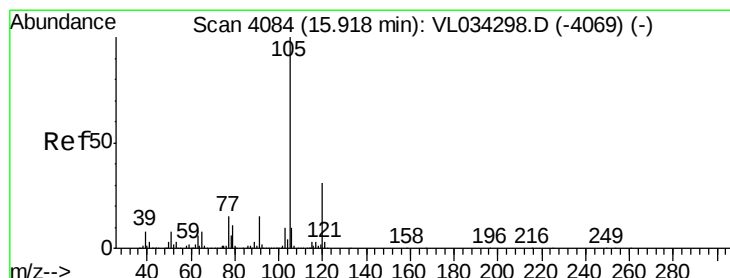
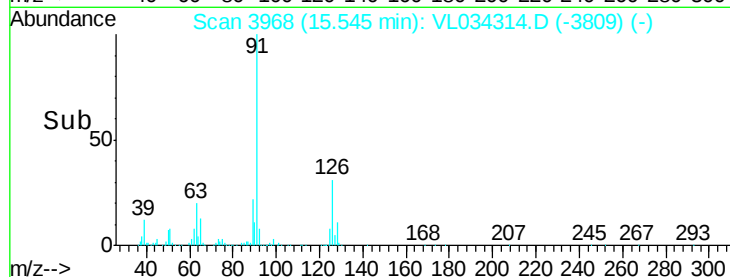
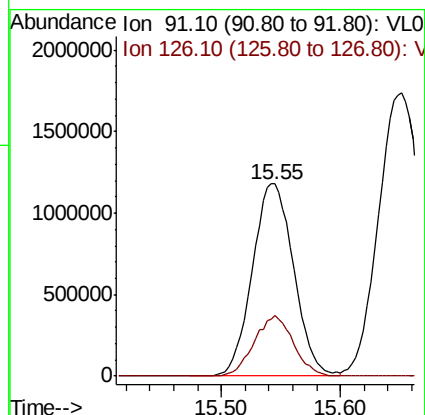
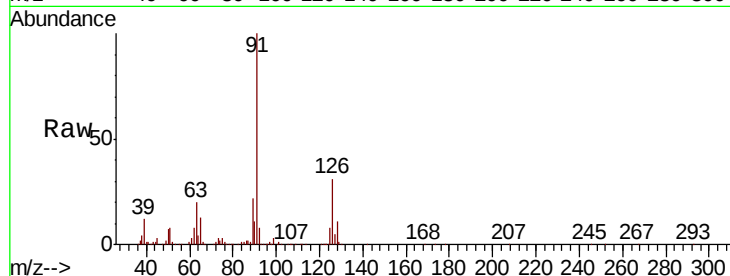
126 29.7 11.9 47.5

Manual Integrations

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#72

4-Ethyltoluene

Concen: 9.388 ppbv

RT: 15.93 min Scan# 4088

Delta R.T. 0.01 min

Lab File: VL034314.D

Acq: 17 Oct 2019 9:34

Tgt Ion: 105 Resp: 3105400

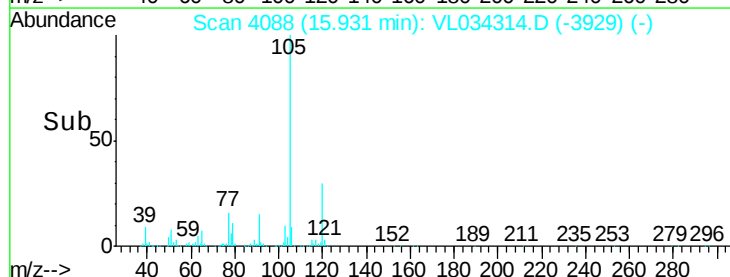
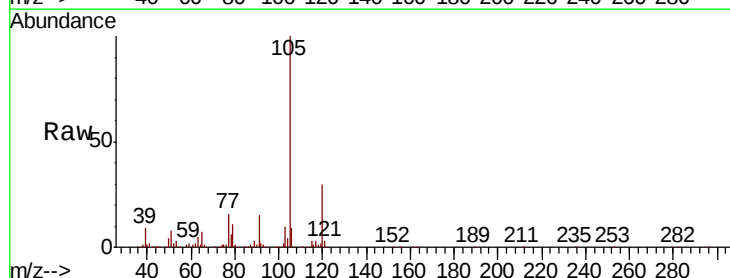
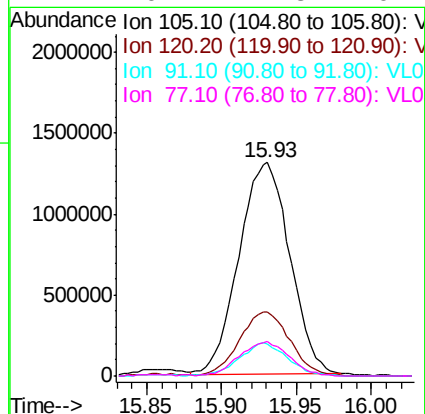
Ion Ratio Lower Upper

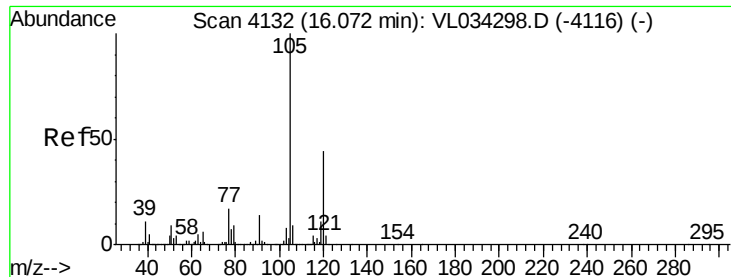
105 100

120 30.2 23.8 35.8

91 14.6 11.2 16.8

77 16.1 12.8 19.2





#73

1,3,5-Trimethylbenzene

Concen: 9.277 ppbv

RT: 16.09 min Scan# 4136

Delta R.T. 0.01 min

Lab File: VL034314.D

Acq: 17 Oct 2019 9:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 3040494

Ion Ratio Lower Upper

105 100

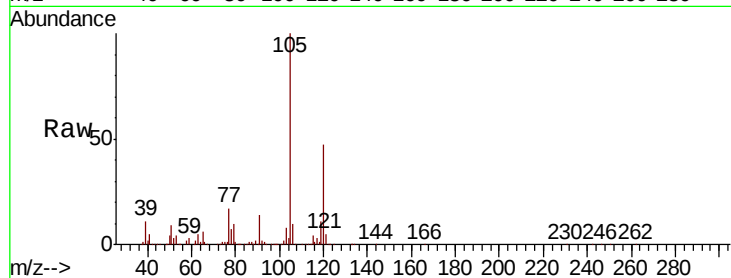
120 46.7 35.2 52.8

Manual Integrations

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

1500000

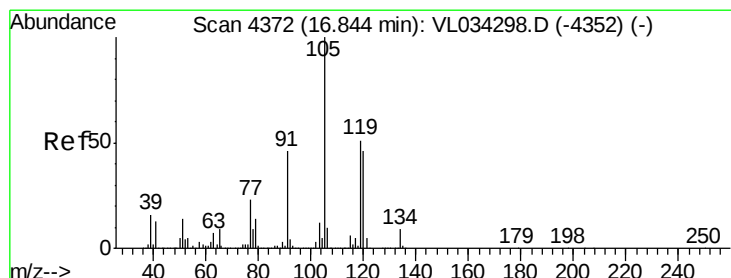
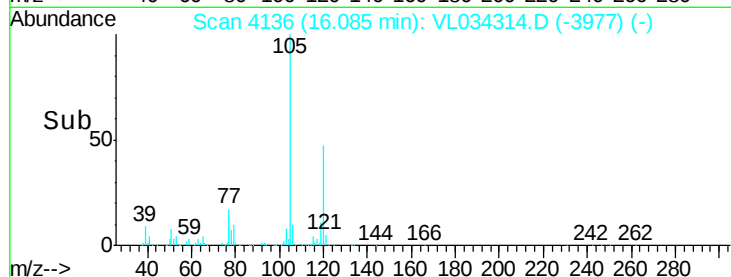
1000000

500000

0

16.09

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 9.079 ppbv

RT: 16.85 min Scan# 4375

Delta R.T. 0.01 min

Lab File: VL034314.D

Acq: 17 Oct 2019 9:34

Tgt Ion:105 Resp: 3103087

Ion Ratio Lower Upper

105 100

120 46.1 37.0 55.6

91 53.9 38.2 57.2

77 25.1 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

2000000

1500000

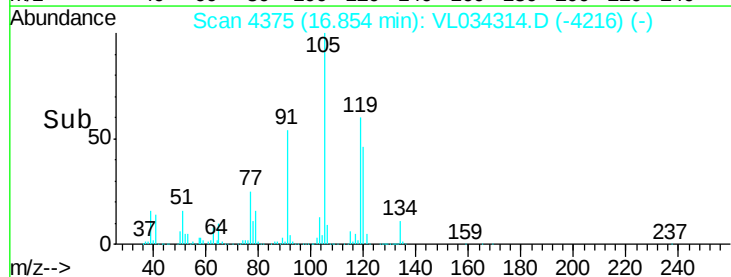
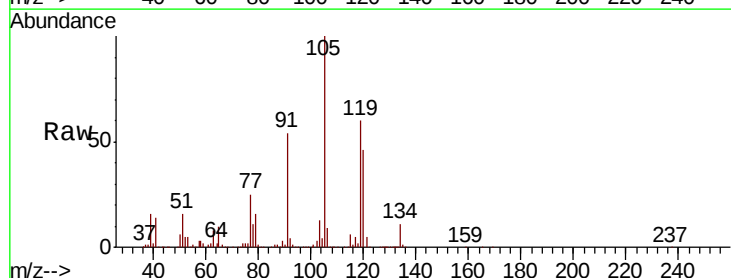
1000000

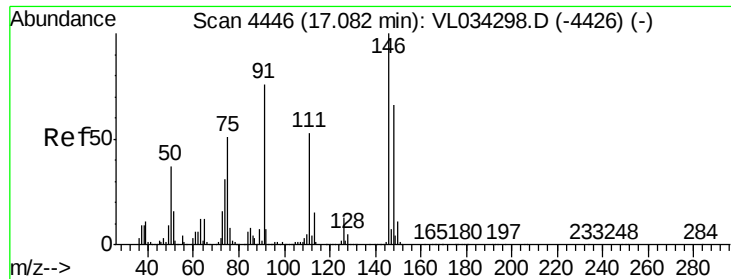
500000

0

16.85

Time-->





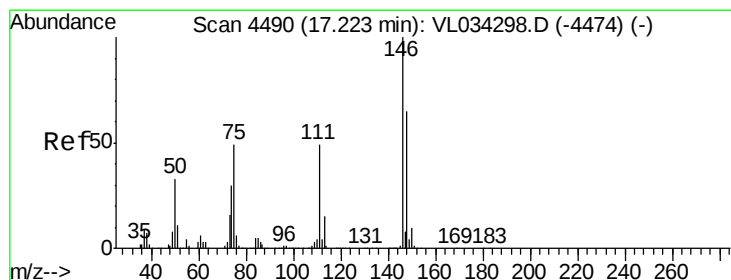
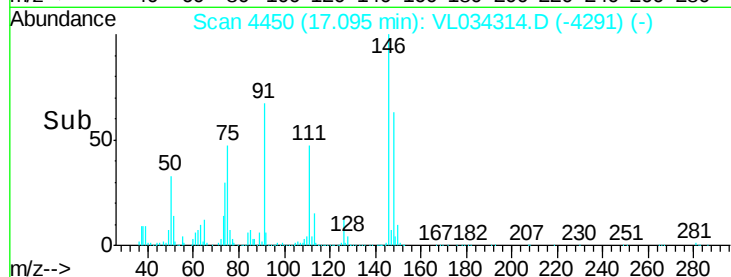
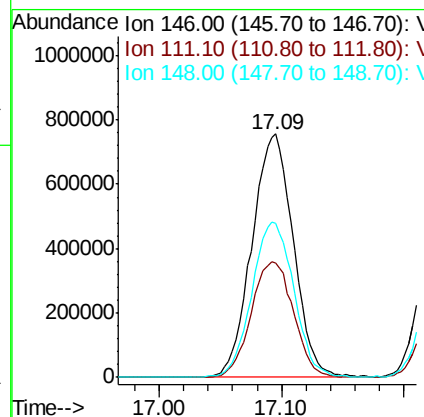
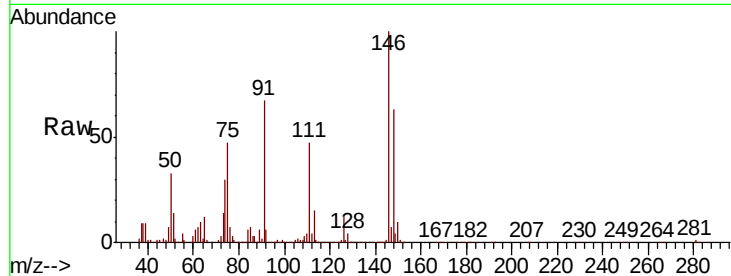
#75
 1,3-Dichlorobenzene
 Concen: 8.630 ppbv
 RT: 17.09 min Scan# 4450
 Delta R.T. 0.01 min
 Lab File: VL034314.D
 Acq: 17 Oct 2019 9:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:146 Resp: 1770936
 Ion Ratio Lower Upper
 146 100
 111 48.7 24.5 73.5
 148 64.9 32.3 96.8

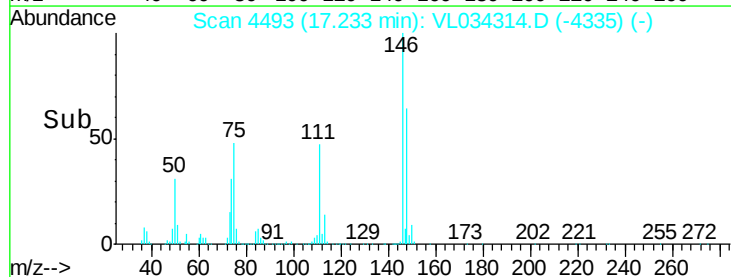
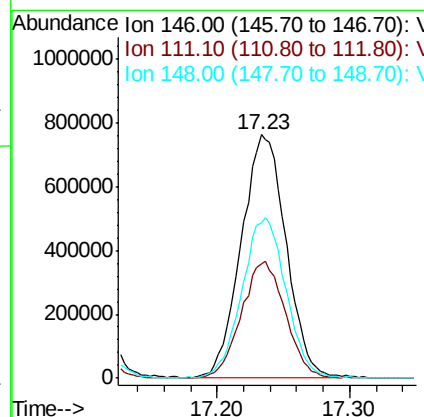
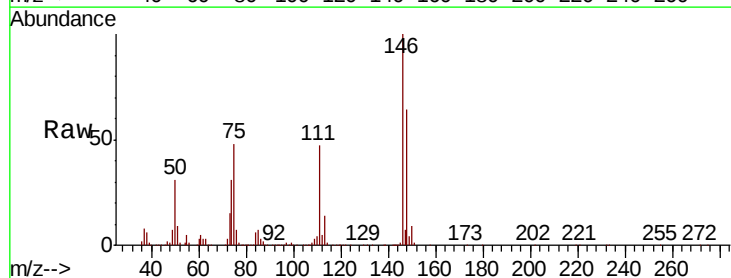
Manual Integrations
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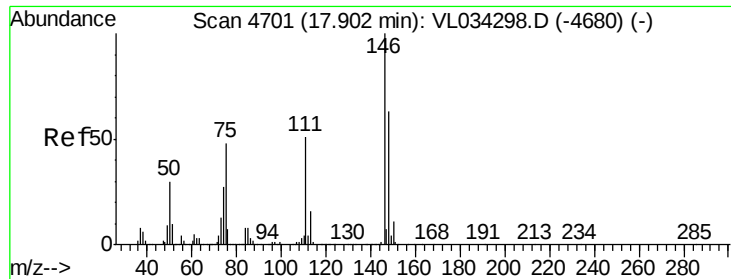
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#76
 1,4-Dichlorobenzene
 Concen: 8.858 ppbv
 RT: 17.23 min Scan# 4493
 Delta R.T. 0.01 min
 Lab File: VL034314.D
 Acq: 17 Oct 2019 9:34

Tgt Ion:146 Resp: 1775471
 Ion Ratio Lower Upper
 146 100
 111 47.8 23.9 71.7
 148 65.9 33.1 99.2





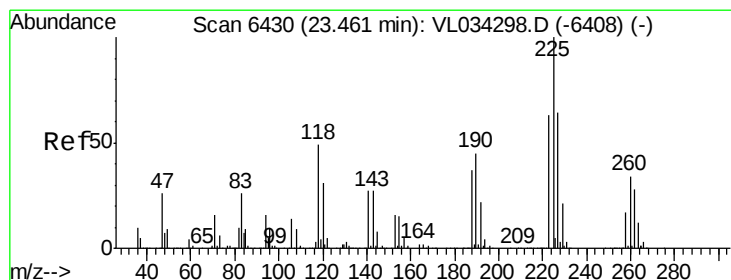
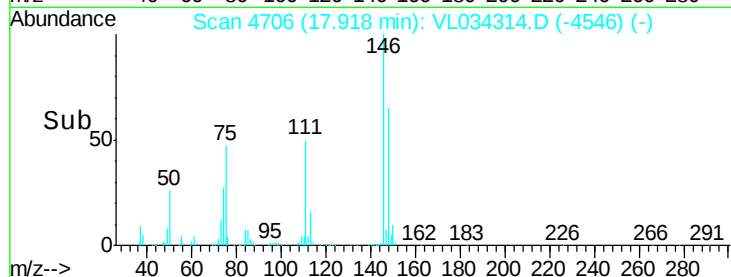
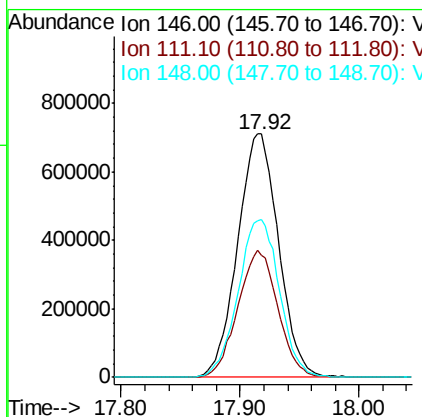
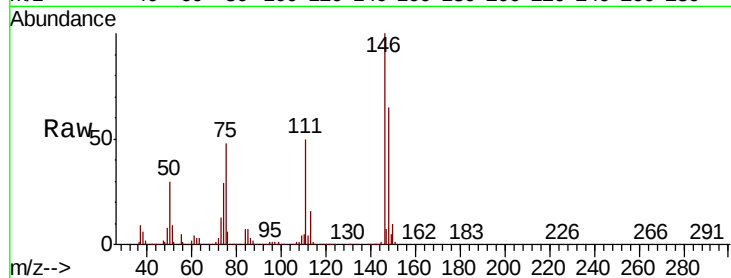
#77
 1,2-Dichlorobenzene
 Concen: 8.407 ppbv
 RT: 17.92 min Scan# 4706
 Delta R.T. 0.02 min
 Lab File: VL034314.D
 Acq: 17 Oct 2019 9:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:146 Resp: 1691354
 Ion Ratio Lower Upper
 146 100
 111 51.1 25.1 75.3
 148 65.7 32.3 96.8

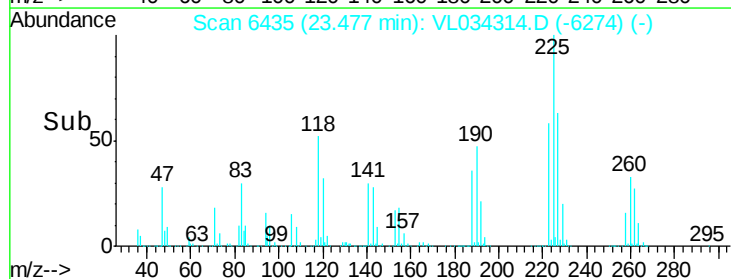
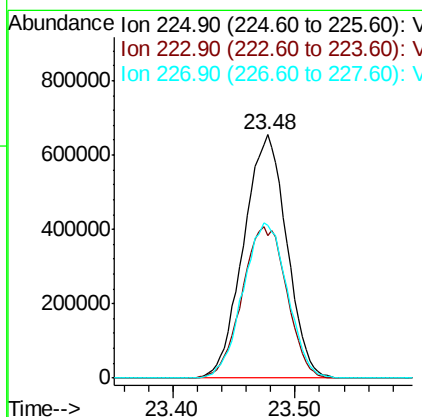
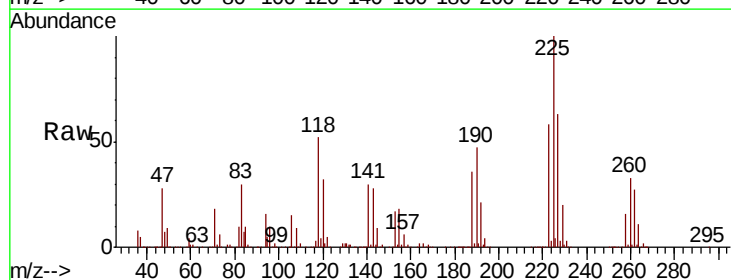
Manual Integrations
 APPROVED

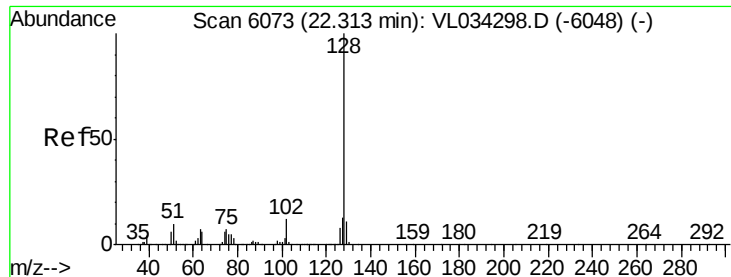
MMDadoda
 10/18/2019 3:05:17 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 9.620 ppbv
 RT: 23.48 min Scan# 6435
 Delta R.T. 0.02 min
 Lab File: VL034314.D
 Acq: 17 Oct 2019 9:34

Tgt Ion:225 Resp: 1601011
 Ion Ratio Lower Upper
 225 100
 223 64.4 50.8 76.2
 227 65.4 51.5 77.3





#79

Naphthalene

Concen: 12.040 ppbv

RT: 22.33 min Scan# 6077

Delta R.T. 0.01 min

Lab File: VL034314.D

Acq: 17 Oct 2019 9:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:128 Resp: 3005873

Ion Ratio Lower Upper

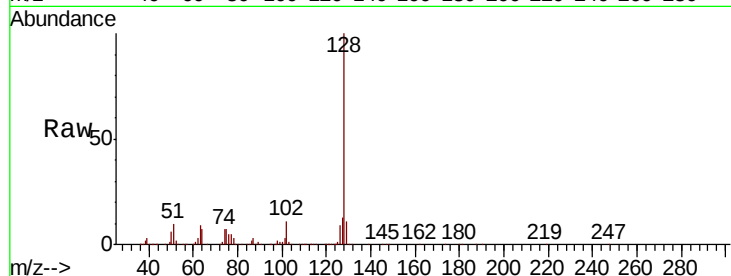
128 100

127 13.2 10.2 15.4

129 11.2 8.9 13.3

Manual Integrations
APPROVED

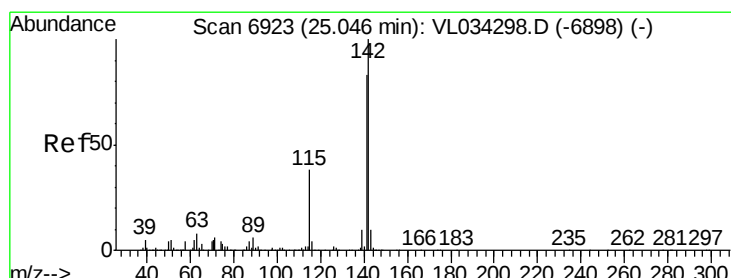
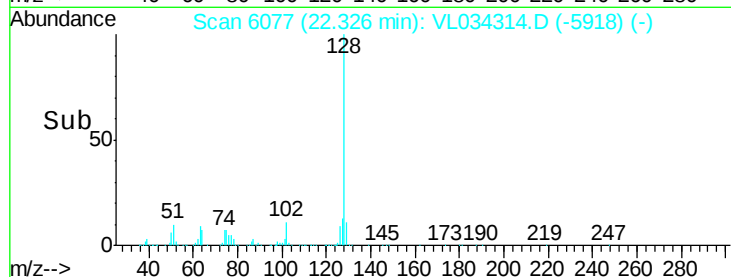
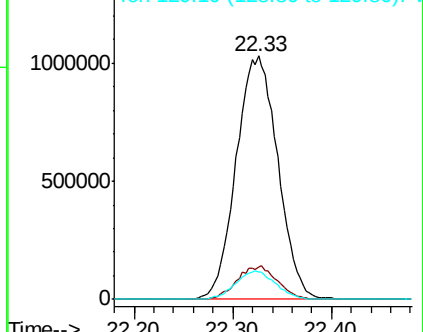
MMDadoda
10/18/2019 3:05:17 PM



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 22.176 ppbv

RT: 25.06 min Scan# 6927

Delta R.T. 0.01 min

Lab File: VL034314.D

Acq: 17 Oct 2019 9:34

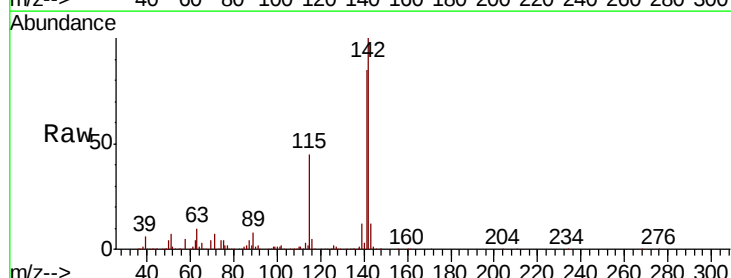
Tgt Ion:142 Resp: 1600397

Ion Ratio Lower Upper

142 100

141 84.6 65.7 98.5

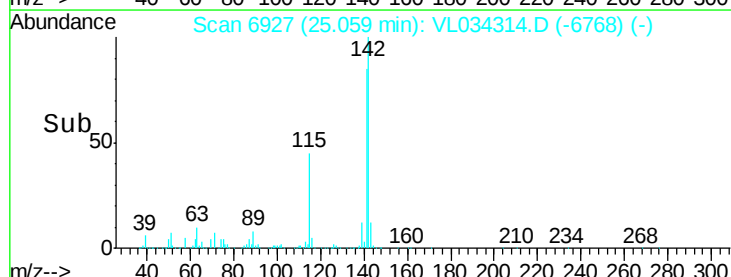
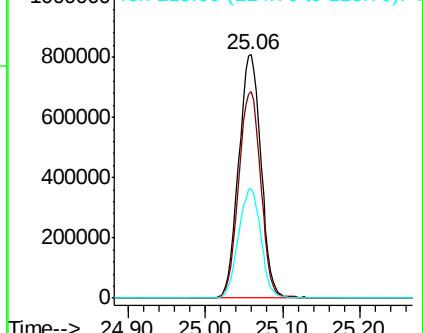
115 45.1 30.9 46.3

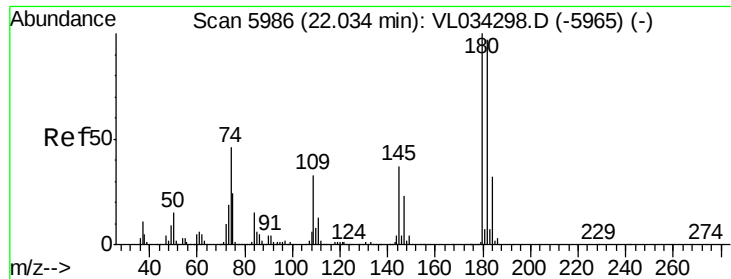


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 10.686 ppbv
 RT: 22.05 min Scan# 5990
 Delta R.T. 0.01 min
 Lab File: VL034314.D
 Acq: 17 Oct 2019 9:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:	180	Resp:	1742589
Ion	Ratio	Lower	Upper
180	100		
182	96.8	77.8	116.8
184	31.1	25.4	38.2

Manual Integrations
 APPROVED

MMDadoda
 10/18/2019 3:05:17 PM

