

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021920\
 Data File : VL034652.D
 Acq On : 19 Feb 2020 18:58
 Operator : SY/AP
 Sample : VL0219ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0219ABS01

Manual Integrations
 APPROVED

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 2/21/2020 3:24:06 PM

Quant Time: Feb 20 07:29:14 2020

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30 2020

QLast Update : Thu Jan 30 17:16:44 2020

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	976641	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2015552	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2087677	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1737233	9.85	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.50%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.01	85	1519886	7.066 ppbv	94
3) Chlorodifluoromethane	2.94	51	1300999	11.024 ppbv	100
4) Chloromethane	3.10	50	718952	9.957 ppbv	99
5) Vinyl Chloride	3.21	62	707527	10.259 ppbv	98
6) Bromomethane	3.44	94	417217	11.630 ppbv	100
7) Chloroethane	3.52	64	272383	10.620 ppbv	98
8) Dichlorotetrafluoroethane	3.15	85	1718038	10.218 ppbv	99
9) Propene	2.96	41	485447	10.565 ppbv	98
10) Heptane	8.13	43	1234785	10.678 ppbv	98
11) Trichlorofluoromethane	3.92	101	1952651	9.993 ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1320664	10.358 ppbv	99
13) Ethanol	3.57	45	154216	12.530 ppbv	99
14) Bromoethene	3.70	108	541727	10.832 ppbv	98
15) Acetone	3.82	43	1614482	11.248 ppbv	97
16) 1,3-Butadiene	3.29	39	639685	11.223 ppbv	99
17) tert-Butyl alcohol	4.27	59	1449458	13.731 ppbv	100
18) 1,1-Dichloroethene	4.26	96	596617	11.085 ppbv	96
19) Isopropyl Alcohol	3.94	45	1120756	13.380 ppbv	100
20) Methylene Chloride	4.32	84	524418	9.595 ppbv	95
21) Allyl Chloride	4.38	41	948310	10.638 ppbv	98
22) trans-1,2-Dichloroethene	4.86	96	575823	10.216 ppbv	93
23) Vinyl Acetate	5.05	43	2018913	12.328 ppbv	98
24) 1,1-Dichloroethane	4.99	63	1453098	10.628 ppbv	99
25) Ethyl Acetate	5.66	43	2305008	9.919 ppbv	99
26) Hexane	5.67	57	1034434	10.628 ppbv	94
27) Carbon Disulfide	4.52	76	1467419	11.173 ppbv	100
28) Methyl tert-Butyl Ether	5.01	73	1882102	11.338 ppbv	100
29) Chloroform	5.74	83	1754490	10.194 ppbv	97
30) Cyclohexane	7.13	84	815129	11.301 ppbv	99
31) cis-1,2-Dichloroethene	5.54	61	1114746	11.023 ppbv	97
32) 1,1,1-Trichloroethane	6.51	97	1864374	10.089 ppbv	99
34) 2-Butanone	5.23	43	1528744	10.446 ppbv	99
35) Carbon Tetrachloride	7.02	117	1959720	10.170 ppbv	95
36) Benzene	6.89	78	1952964	10.896 ppbv	97
37) 1,2-Dichloroethane	6.30	62	1533163	10.252 ppbv	100
38) Trichloroethene	7.84	130	812967	10.760 ppbv	98
39) 1,2-Dichloropropane	7.62	63	786273	10.582 ppbv	98
40) 1,4-Dioxane	7.84	88	331140	11.593 ppbv	83
41) Tetrahydrofuran	6.03	42	808841	10.594 ppbv	98
42) Bromodichloromethane	7.80	83	1939804	10.539 ppbv	99
43) Methyl Methacrylate	8.02	69	825316	11.448 ppbv	95

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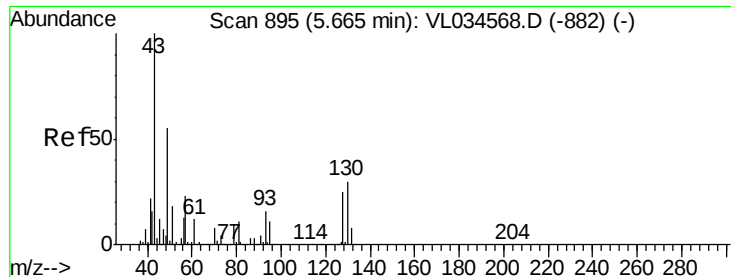
Manual Integrations
 APPROVED

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 2/21/2020 3:24:06 PM

Quant Time: Feb 20 07:29:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30 2020
 QLast Update : Thu Jan 30 17:16:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	3433959	10.559	ppbv	99
45) t-1,3-Dichloropropene	9.29	75	1084854	11.492	ppbv	96
46) cis-1,3-Dichloropropene	8.72	75	1230625	11.470	ppbv	98
47) 1,1,2-Trichloroethane	9.49	97	861592	10.706	ppbv	96
48) Dibromochloromethane	10.33	129	1624375	11.015	ppbv	100
49) Bromoform	13.07	173	1456265	11.247	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	2217557	10.625	ppbv	99
51) 2-Hexanone	10.15	43	1789861	10.895	ppbv #	98
52) Tetrachloroethene	11.24	164	753323	10.462	ppbv	97
53) Toluene	9.82	91	2256923	11.462	ppbv	100
54) 1,2-Dibromoethane	10.63	107	1350931	11.202	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.15	131	1113140	10.800	ppbv	98
57) Chlorobenzene	12.17	112	1780868	10.367	ppbv	99
58) Ethyl Benzene	12.74	91	3126313	11.191	ppbv	98
59) m/p-Xylene	13.02	91	5207422m	21.087	ppbv	
60) o-Xylene	13.72	91	2677763	10.797	ppbv	100
61) Styrene	13.56	104	1856680	11.228	ppbv	99
62) Isopropylbenzene	14.70	105	3495130	10.875	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.71	83	1955687	10.196	ppbv	100
64) n-propylbenzene	15.60	120	926734	11.208	ppbv	99
65) tert-Butylbenzene	16.78	119	3270119	11.231	ppbv	100
66) Benzyl Chloride	17.03	91	1566724	12.833	ppbv	100
67) sec-Butylbenzene	17.33	105	4409113	11.019	ppbv	99
69) p-Isopropyltoluene	17.69	119	3678059	11.320	ppbv	100
70) n-Butylbenzene	18.59	91	3897100	11.300	ppbv	99
71) 2-Chlorotoluene	15.49	91	2757802	11.305	ppbv	100
72) 4-Ethyltoluene	15.87	105	3014750	11.066	ppbv	100
73) 1,3,5-Trimethylbenzene	16.03	105	2941884	11.051	ppbv	98
74) 1,2,4-Trimethylbenzene	16.80	105	3113313	10.565	ppbv	96
75) 1,3-Dichlorobenzene	17.04	146	1731149	10.202	ppbv	100
76) 1,4-Dichlorobenzene	17.18	146	1701004	10.171	ppbv	100
77) 1,2-Dichlorobenzene	17.86	146	1683930	10.331	ppbv	99
78) Hexachloro-1,3-Butadiene	23.42	225	1468820	9.423	ppbv	99
79) Naphthalene	22.25	128	2516411	10.846	ppbv	99
80) Naphthalene, 2-methyl-	25.01	142	514551	5.765	ppbv #	94
81) 1,2,4-Trichlorobenzene	21.98	180	1462636	10.226	ppbv	98

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.01 min

Lab File: VL034652.D

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Instrument :

MSVOA_L

ClientSampleId :

VL0219ABS01

Tot Ion: 49 Resp: 976641

Ion Ratio Lower Upper

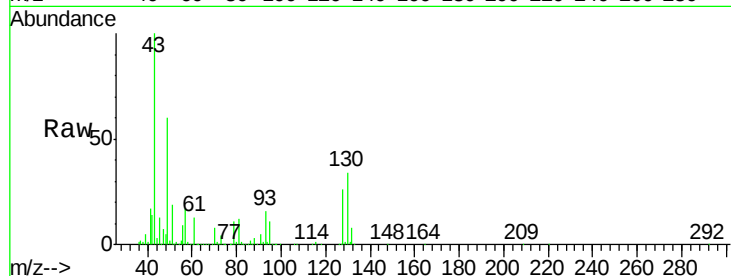
49 100

128 45.8 22.7 68.1

130 59.2 28.6 85.8

Manual Integrations
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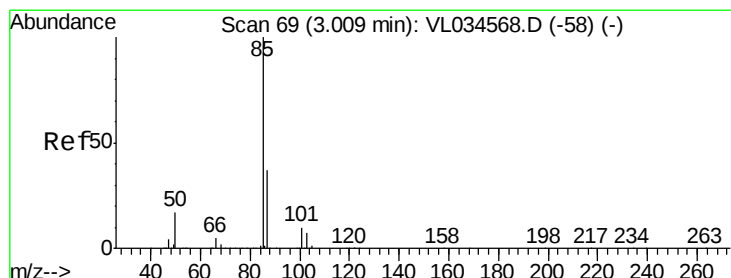
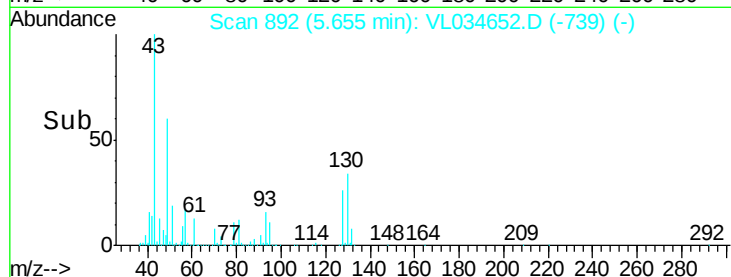
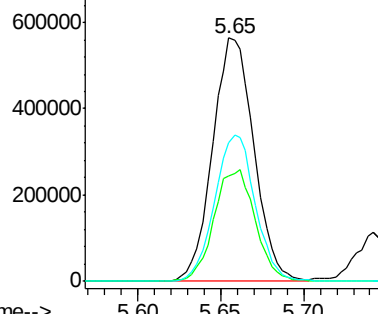
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 7.066 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.00 min

Lab File: VL034652.D

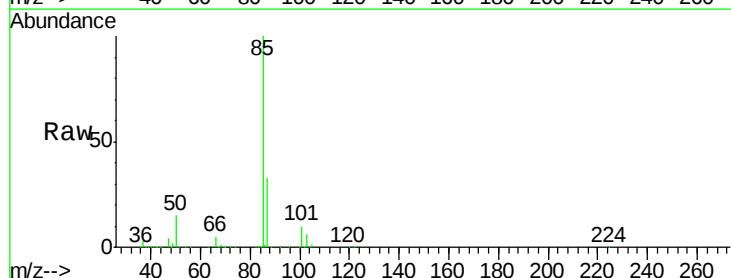
Acq: 19 Feb 2020 18:58

Tgt Ion: 85 Resp: 1519886

Ion Ratio Lower Upper

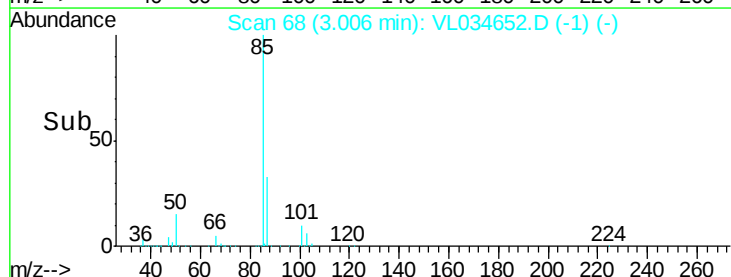
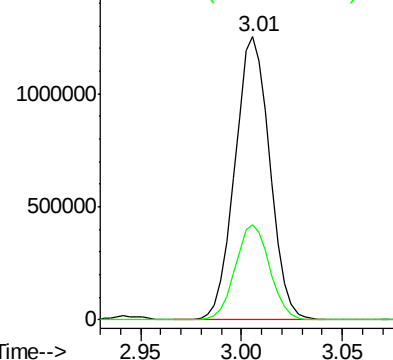
85 100

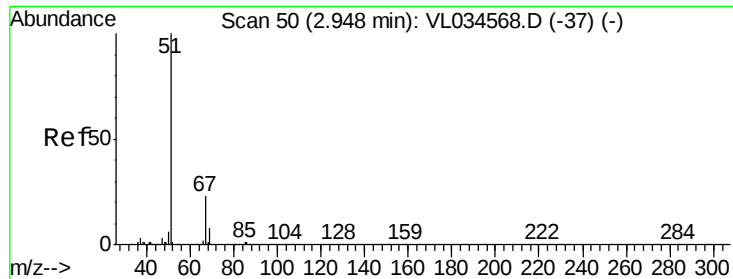
87 33.4 29.5 44.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





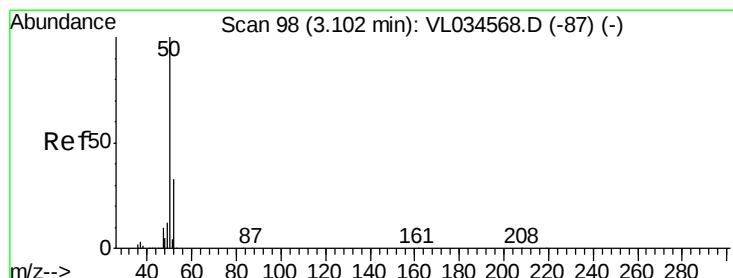
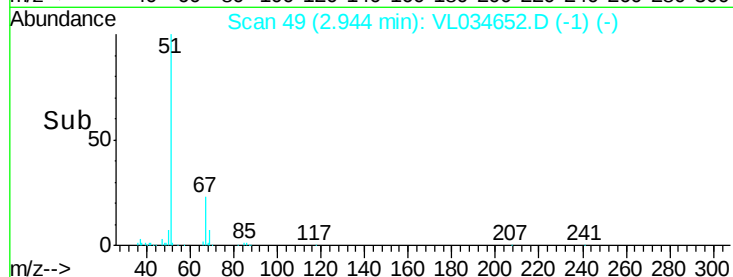
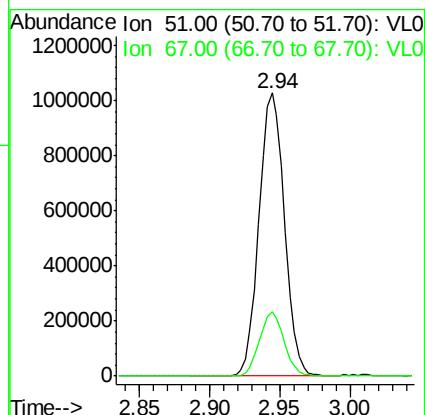
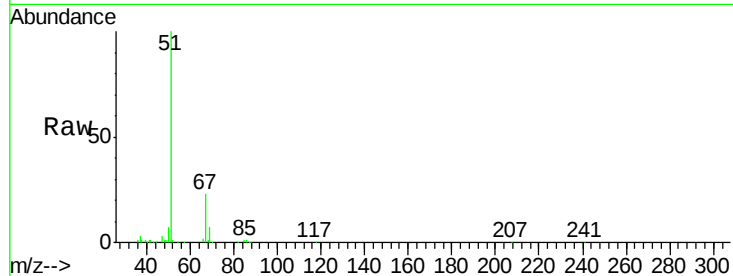
#3
Chlorodifluoromethane
Concen: 11.024 ppbv
RT: 2.94 min Scan# 49
Delta R.T. -0.00 min
Lab File: VL034652.D
Acq: 19 Feb 2020 18:58

Instrument :
MSVOA_L
ClientSampleId :
VL0219ABS01

Tot Ion: 51 Resp: 1300999
Ion Ratio Lower Upper
51 100
67 22.1 17.8 26.8

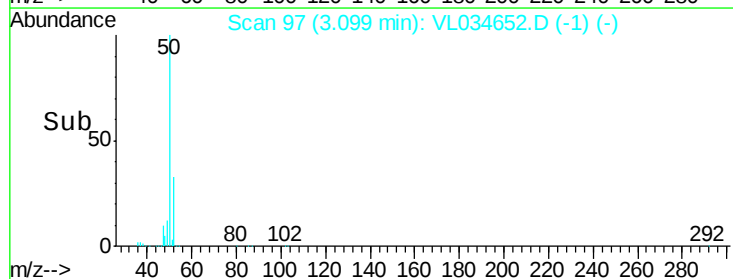
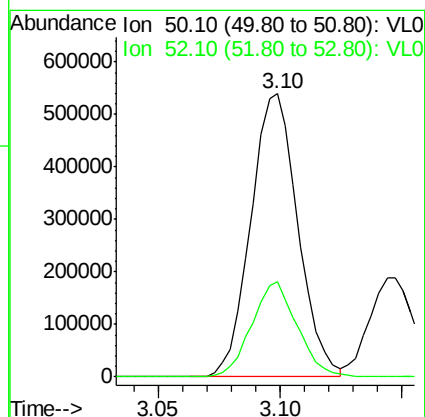
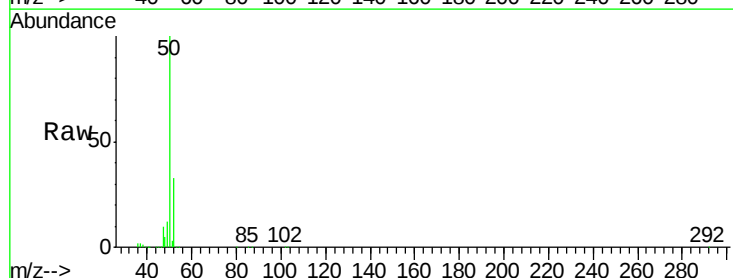
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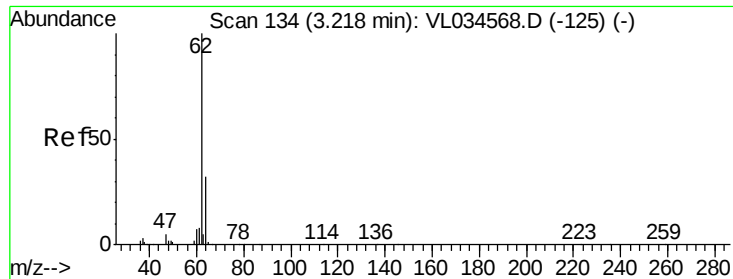
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#4
Chloromethane
Concen: 9.957 ppbv
RT: 3.10 min Scan# 97
Delta R.T. -0.00 min
Lab File: VL034652.D
Acq: 19 Feb 2020 18:58

Tgt Ion: 50 Resp: 718952
Ion Ratio Lower Upper
50 100
52 33.5 26.6 39.8





#5

Vinyl Chloride

Concen: 10.259 ppbv

RT: 3.21 min Scan# 133

Delta R.T. -0.00 min

Lab File: VL034652.D

Acq: 19 Feb 2020 18:58

Instrument :

MSVOA_L

ClientSampleId :

VL0219ABS01

Tot Ion: 62 Resp: 707527

Ion Ratio Lower Upper

62 100

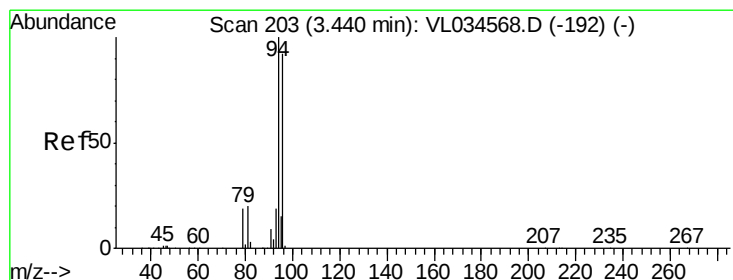
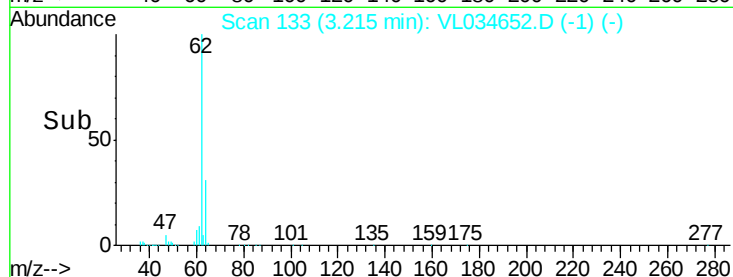
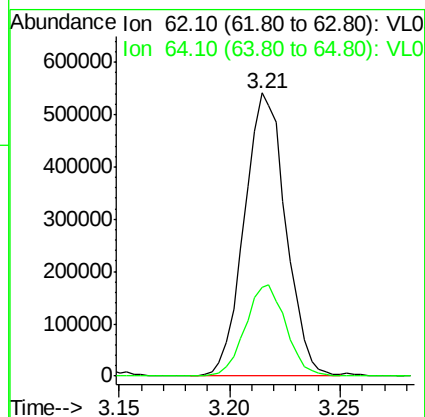
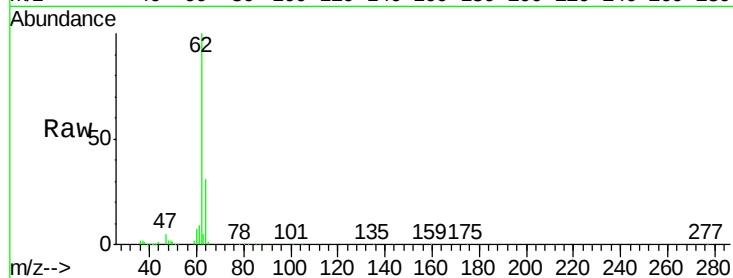
64 31.2 25.8 38.6

Manual Integrations

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#6

Bromomethane

Concen: 11.630 ppbv

RT: 3.44 min Scan# 202

Delta R.T. -0.00 min

Lab File: VL034652.D

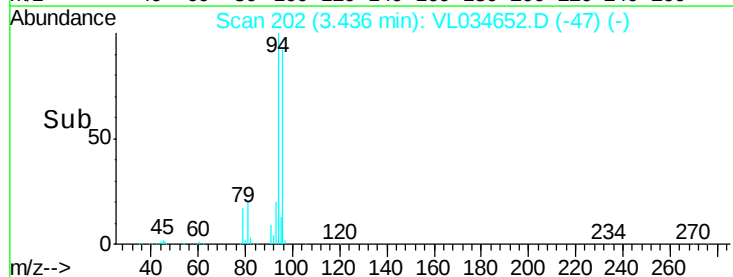
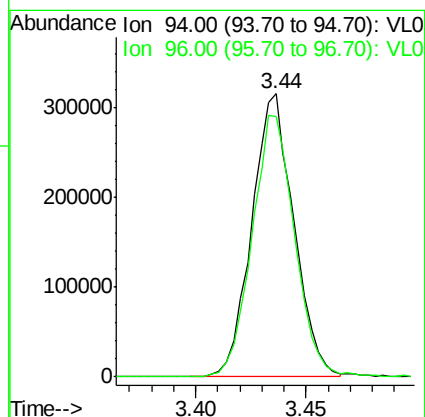
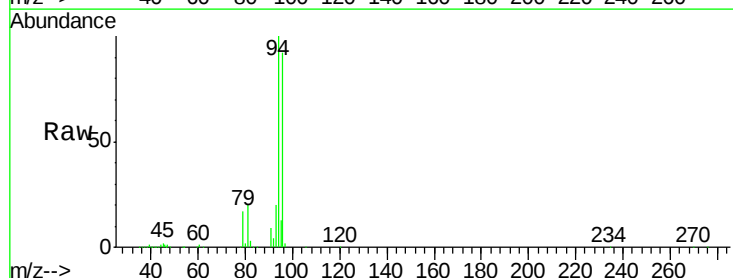
Acq: 19 Feb 2020 18:58

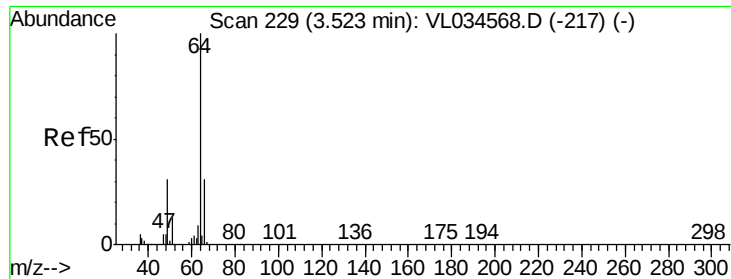
Tgt Ion: 94 Resp: 417217

Ion Ratio Lower Upper

94 100

96 91.9 73.8 110.8





#7

Chloroethane

Concen: 10.620 ppbv

RT: 3.52 min Scan# 228

Delta R.T. -0.00 min

Lab File: VL034652.D

Acq: 19 Feb 2020 18:58

Instrument :

MSVOA_L

ClientSampleId :

VL0219ABS01

Tot Ion: 64 Resp: 272383

Ion Ratio Lower Upper

64 100

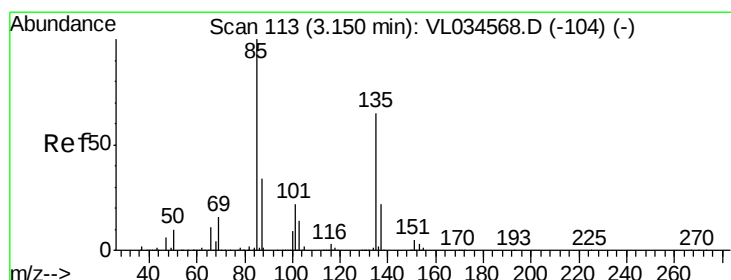
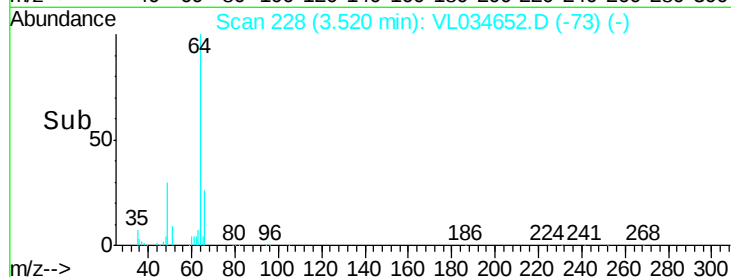
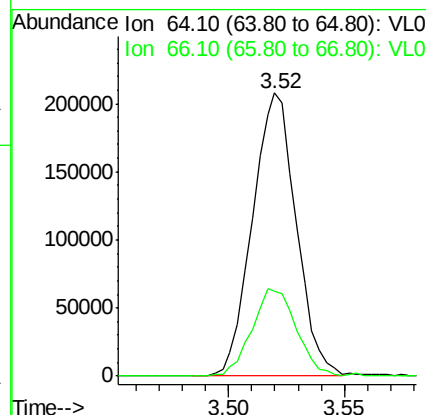
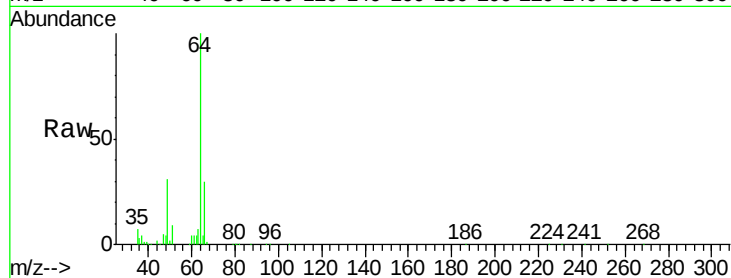
66 29.9 25.0 37.4

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 10.218 ppbv

RT: 3.15 min Scan# 112

Delta R.T. -0.00 min

Lab File: VL034652.D

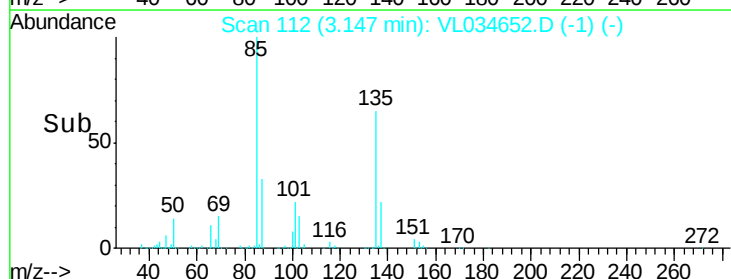
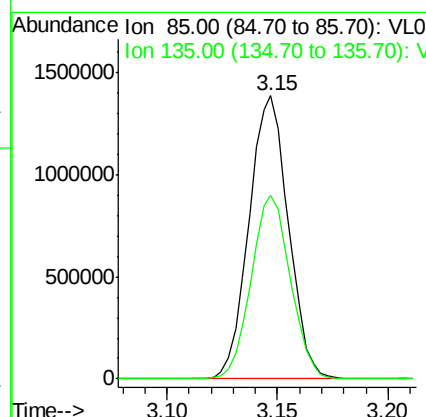
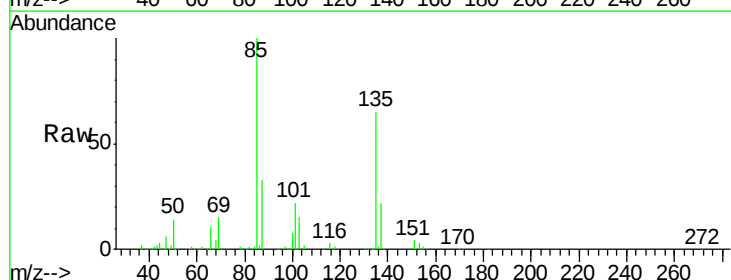
Acq: 19 Feb 2020 18:58

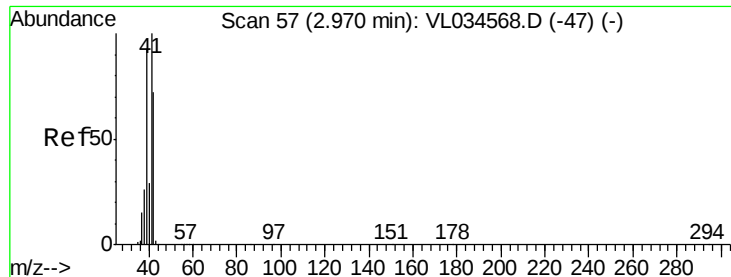
Tgt Ion: 85 Resp: 1718038

Ion Ratio Lower Upper

85 100

135 64.8 52.2 78.2





#9

Propene

Concen: 10.565 ppbv

RT: 2.96 min Scan# 55

Delta R.T. -0.01 min

Lab File: VL034652.D

Acq: 19 Feb 2020 18:58

Instrument :

MSVOA_L

ClientSampleId :

VL0219ABS01

Tot Ion: 41 Resp: 485447

Ion Ratio Lower Upper

41 100

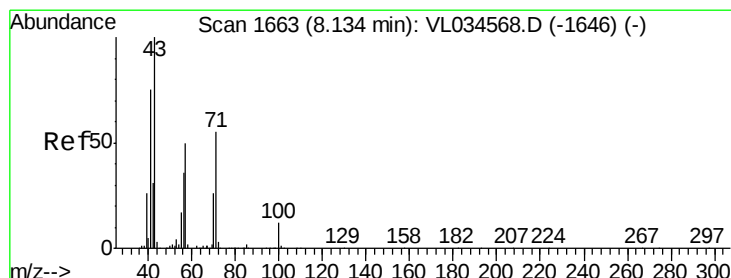
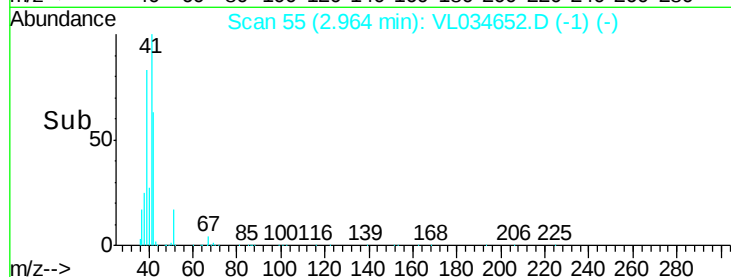
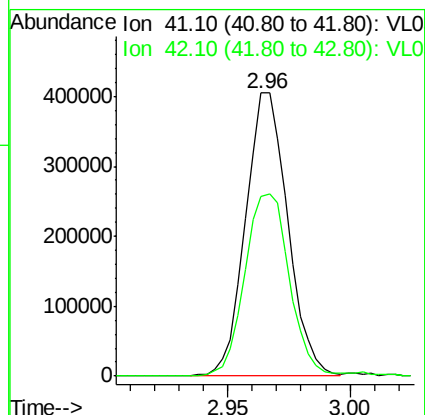
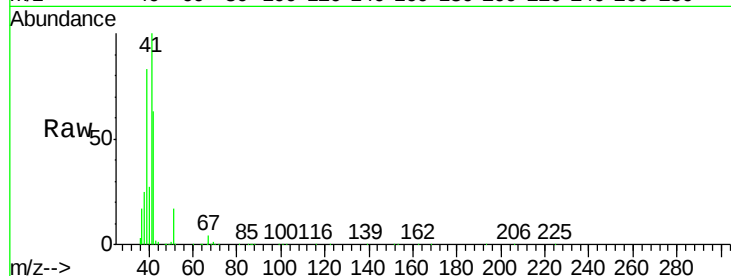
42 69.2 57.0 85.4

Manual Integrations

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#10

Heptane

Concen: 10.678 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. -0.01 min

Lab File: VL034652.D

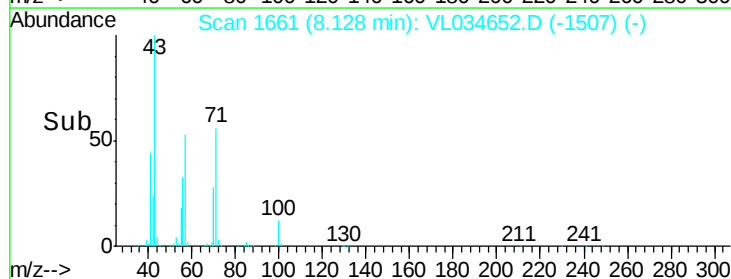
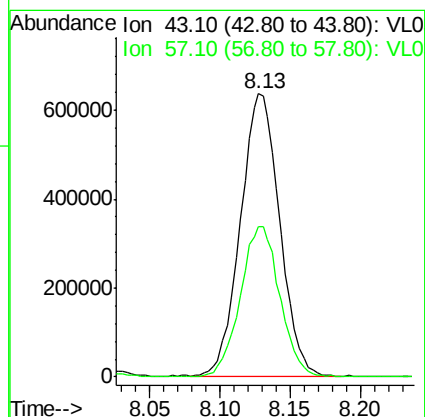
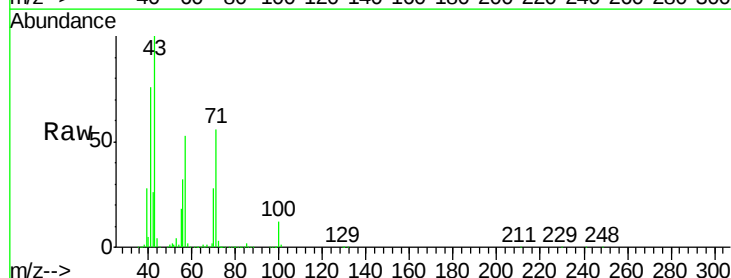
Acq: 19 Feb 2020 18:58

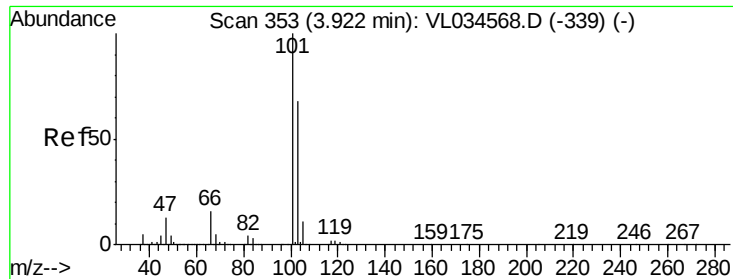
Tgt Ion: 43 Resp: 1234785

Ion Ratio Lower Upper

43 100

57 53.2 41.2 61.8





#11

Trichlorofluoromethane

Concen: 9.993 ppbv

RT: 3.92 min Scan# 352

Delta R.T. -0.00 min

Lab File: VL034652.D

Acq: 19 Feb 2020 18:58

Instrument :

MSVOA_L

ClientSampleId :

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Tot Ion:101 Resp: 1952651

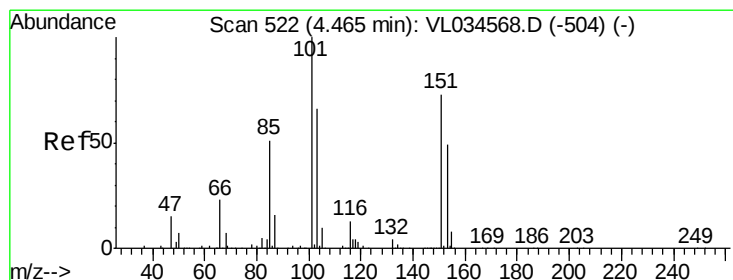
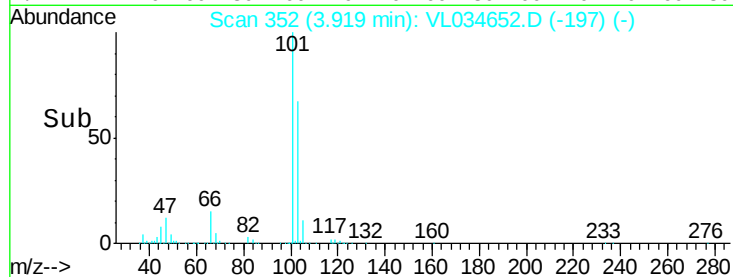
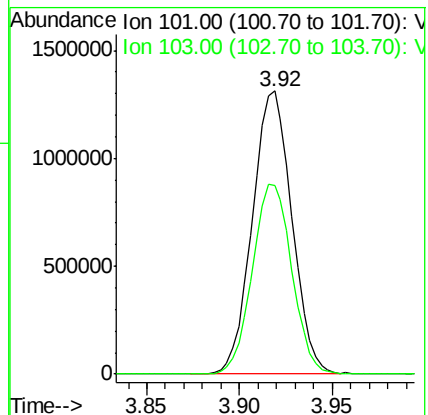
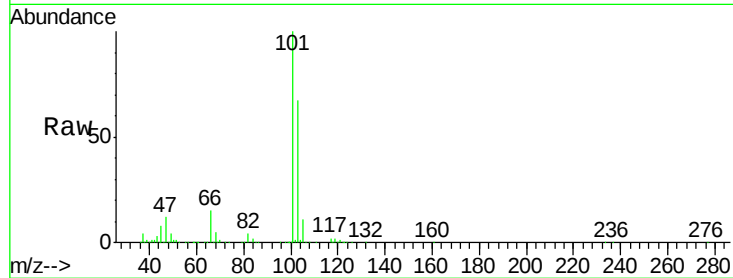
Ion Ratio Lower Upper

101 100

103 66.7 54.4 81.6

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#12

1,1,2-Trichlorotrifluoroethane

Concen: 10.358 ppbv

RT: 4.46 min Scan# 520

Delta R.T. -0.01 min

Lab File: VL034652.D

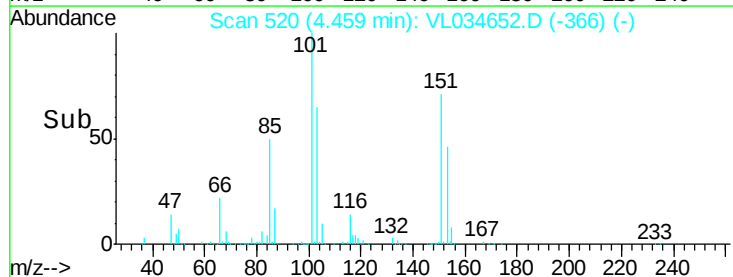
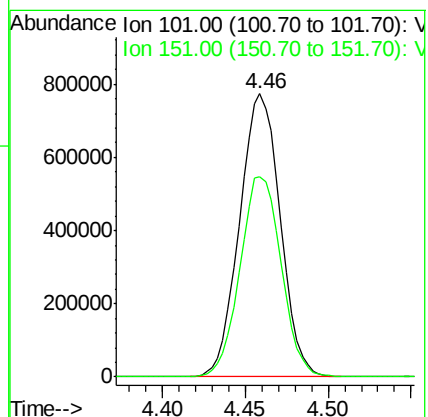
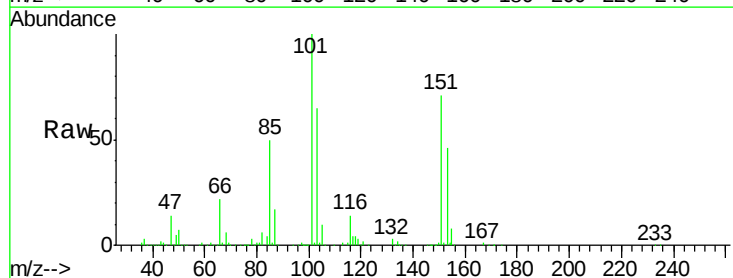
Acq: 19 Feb 2020 18:58

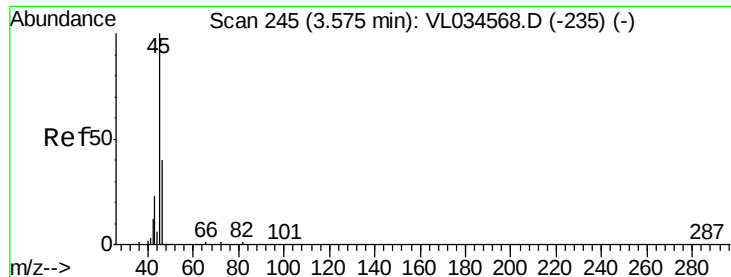
Tgt Ion:101 Resp: 1320664

Ion Ratio Lower Upper

101 100

151 71.9 57.0 85.6





#13

Ethanol

Concen: 12.530 ppbv

RT: 3.57 min Scan# 244

Delta R.T. -0.00 min

Lab File: VL034652.D

Acq: 19 Feb 2020 18:58

Instrument :

MSVOA_L

ClientSampleId :

VL0219ABS01

Tot Ion: 45 Resp: 154216

Ion Ratio Lower Upper

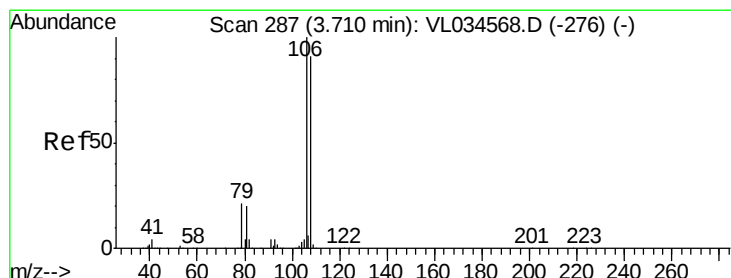
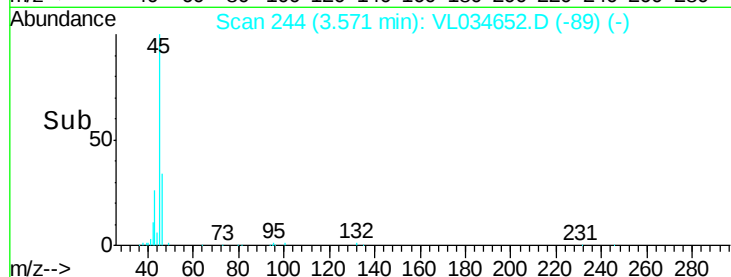
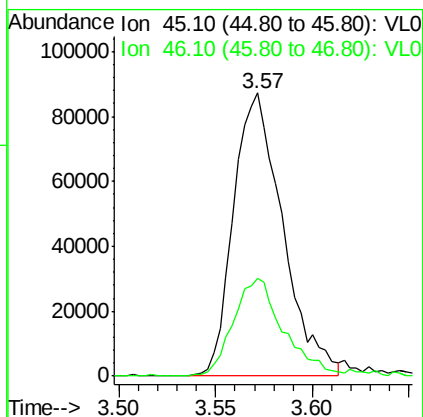
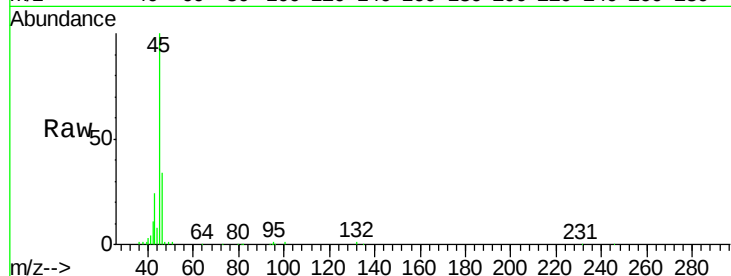
45 100

46 36.6 14.8 59.2

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#14

Bromoethene

Concen: 10.832 ppbv

RT: 3.70 min Scan# 285

Delta R.T. -0.01 min

Lab File: VL034652.D

Acq: 19 Feb 2020 18:58

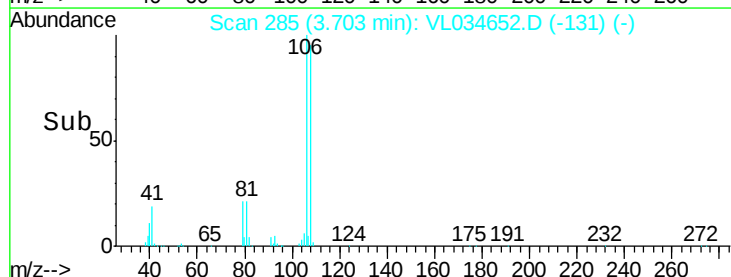
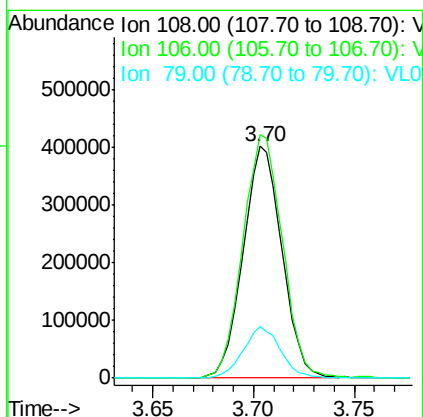
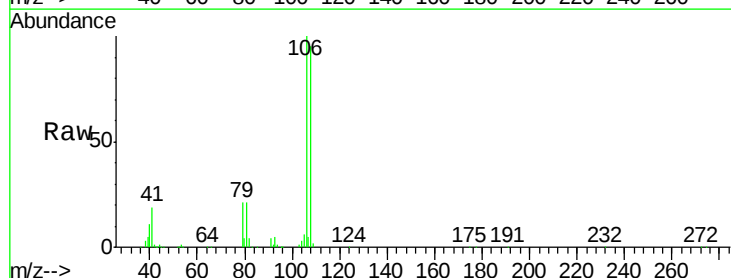
Tgt Ion: 108 Resp: 541727

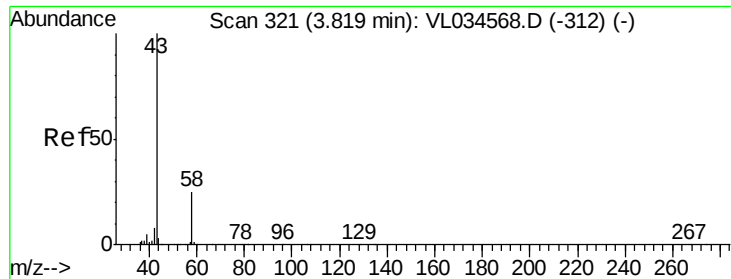
Ion Ratio Lower Upper

108 100

106 108.3 84.6 127.0

79 21.5 18.2 27.2





#15

Acetone

Concen: 11.248 ppbv

RT: 3.82 min Scan# 320

Delta R.T. -0.00 min

Lab File: VL034652.D

Acq: 19 Feb 2020 18:58

Instrument :

MSVOA_L

ClientSampleId :

VL0219ABS01

Tot Ion: 43 Resp: 1614482

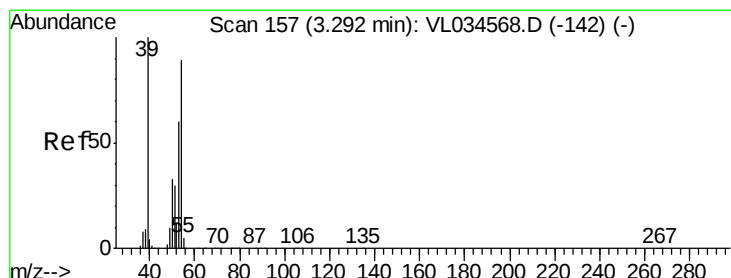
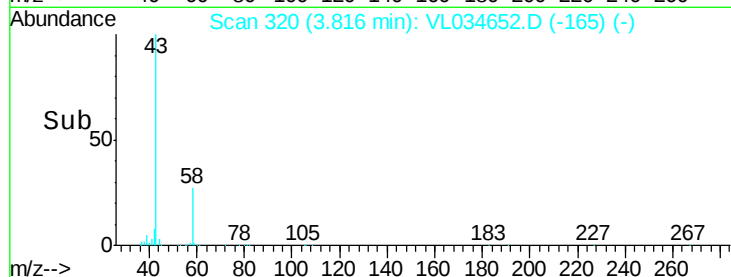
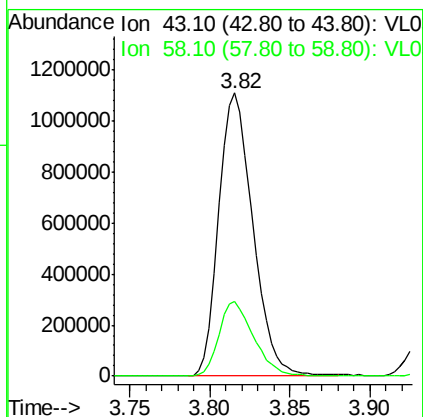
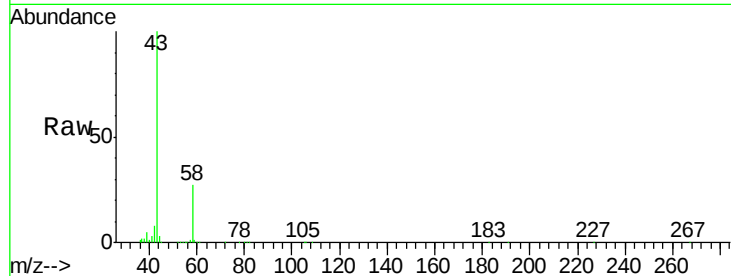
Ion Ratio Lower Upper

43 100

58 27.1 20.3 30.5

Manual Integrations
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#16

1,3-Butadiene

Concen: 11.223 ppbv

RT: 3.29 min Scan# 155

Delta R.T. -0.01 min

Lab File: VL034652.D

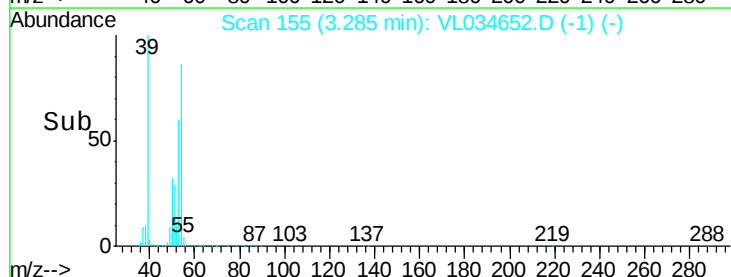
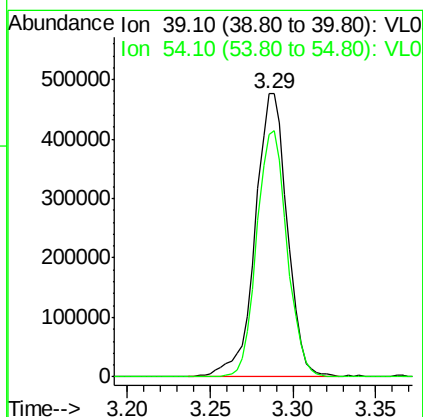
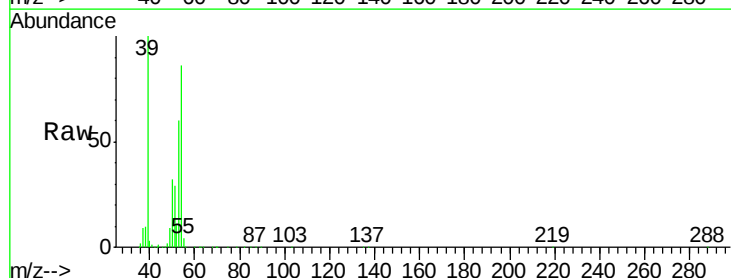
Acq: 19 Feb 2020 18:58

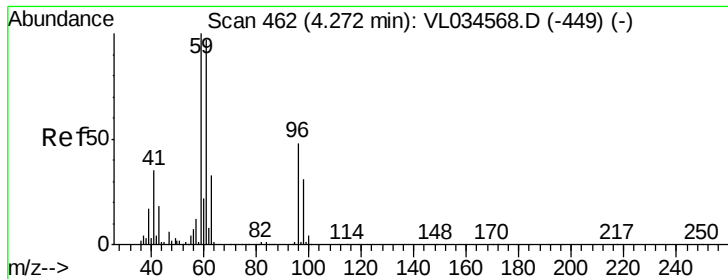
Tgt Ion: 39 Resp: 639685

Ion Ratio Lower Upper

39 100

54 82.5 66.7 100.1





#17

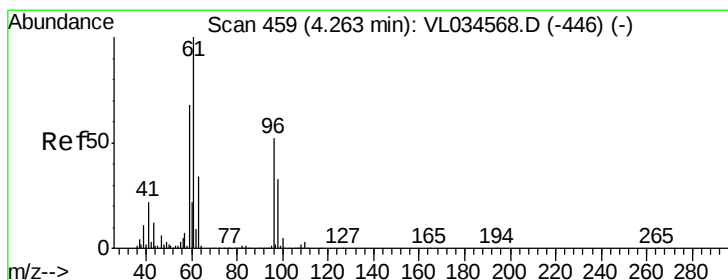
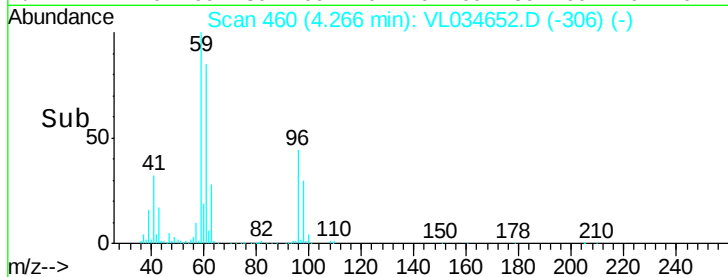
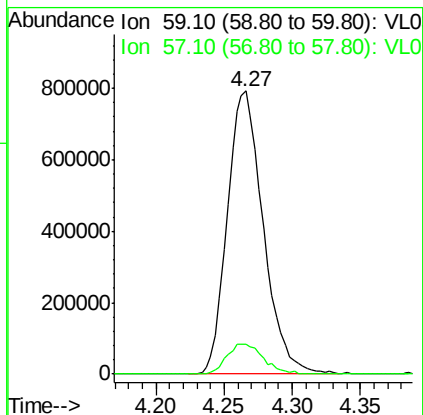
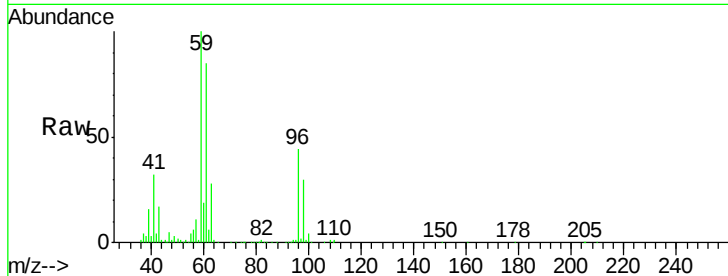
tert-Butyl alcohol
 Concen: 13.731 ppbv
 RT: 4.27 min Scan# 460
 Delta R.T. -0.01 min
 Lab File: VL034652.D
 Acq: 19 Feb 2020 18:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0219ABS01

Tot Ion: 59 Resp: 1449458
 Ion Ratio Lower Upper
 59 100
 57 11.0 8.7 13.1

Manual Integrations
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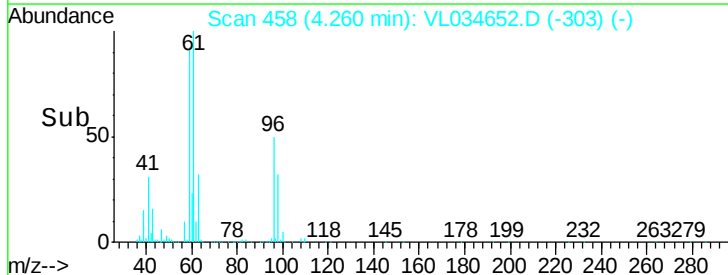
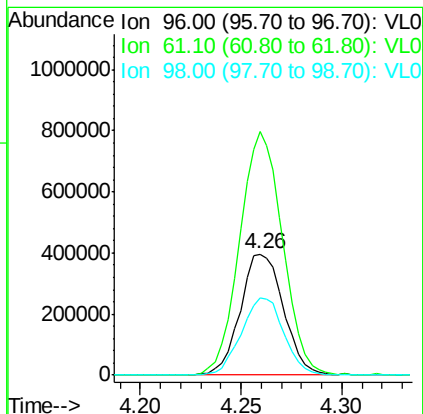
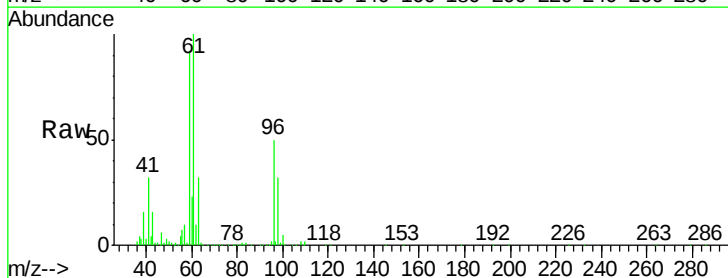
MMDadoda
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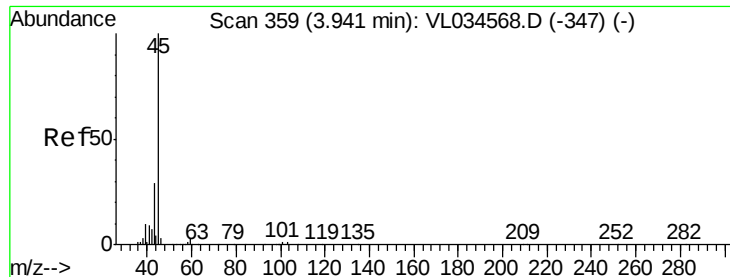


#18

1,1-Dichloroethene
 Concen: 11.085 ppbv
 RT: 4.26 min Scan# 458
 Delta R.T. -0.00 min
 Lab File: VL034652.D
 Acq: 19 Feb 2020 18:58

Tgt Ion: 96 Resp: 596617
 Ion Ratio Lower Upper
 96 100
 61 200.7 154.5 231.7
 98 63.4 50.3 75.5





#19

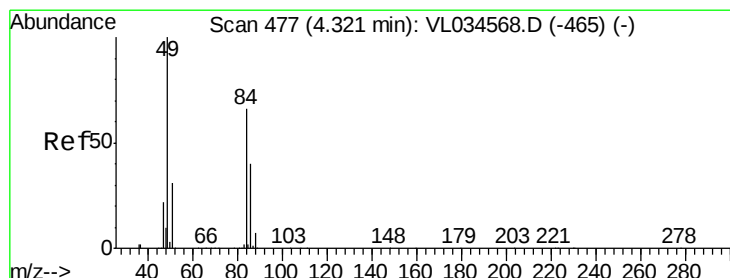
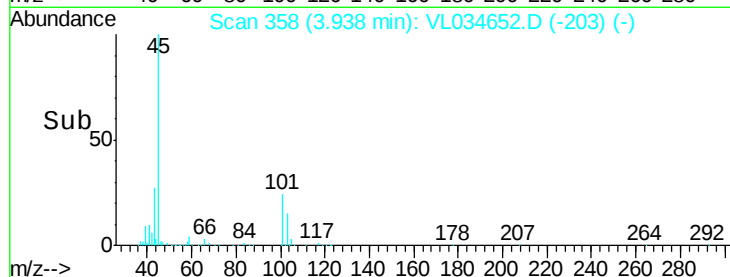
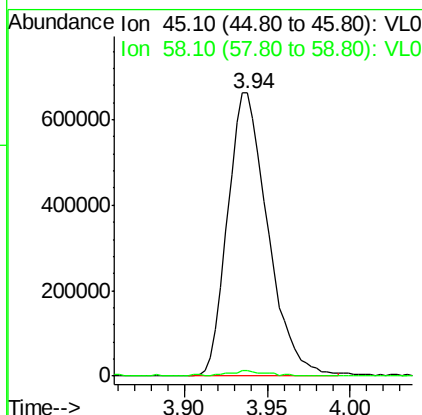
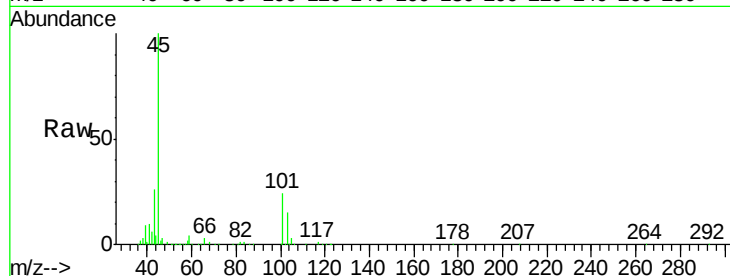
Isopropyl Alcohol
 Concen: 13.380 ppbv
 RT: 3.94 min Scan# 358
 Delta R.T. -0.00 min
 Lab File: VL034652.D
 Acq: 19 Feb 2020 18:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0219ABS01

Tot Ion: 45 Resp: 1120756
 Ion Ratio Lower Upper
 45 100
 58 2.0 1.7 2.5

Manual Integrations
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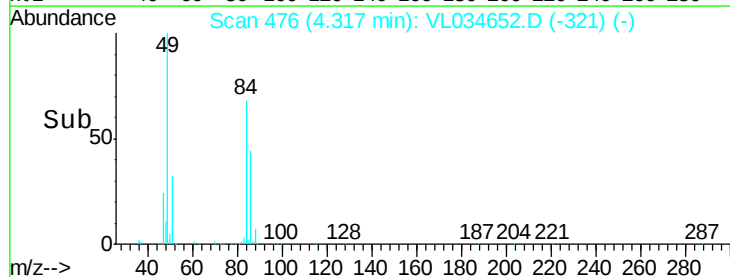
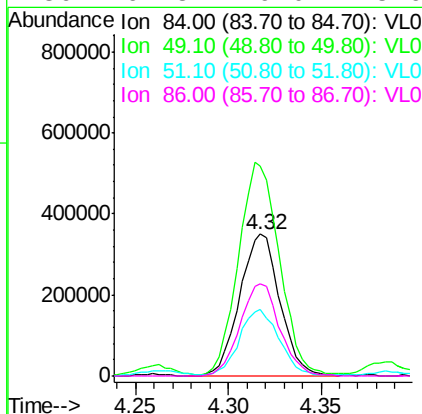
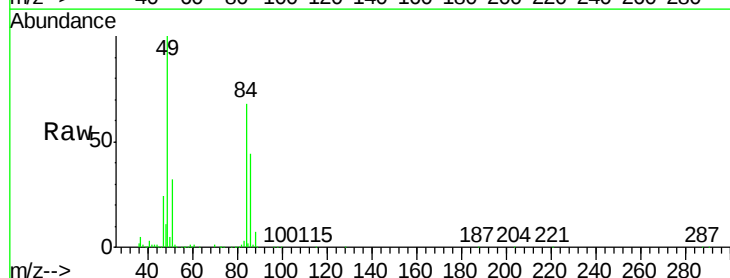
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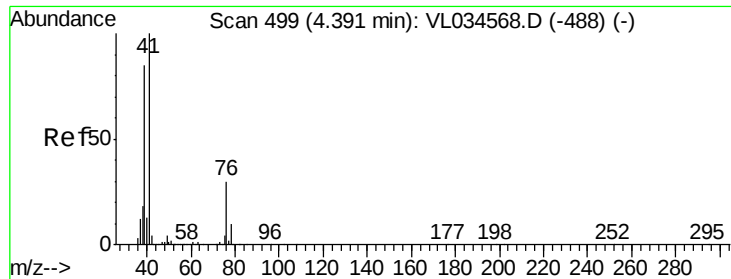


#20

Methylene Chloride
 Concen: 9.595 ppbv
 RT: 4.32 min Scan# 476
 Delta R.T. -0.00 min
 Lab File: VL034652.D
 Acq: 19 Feb 2020 18:58

Tgt Ion: 84 Resp: 524418
 Ion Ratio Lower Upper
 84 100
 49 146.2 122.4 183.6
 51 46.1 38.6 57.8
 86 64.8 49.0 73.6





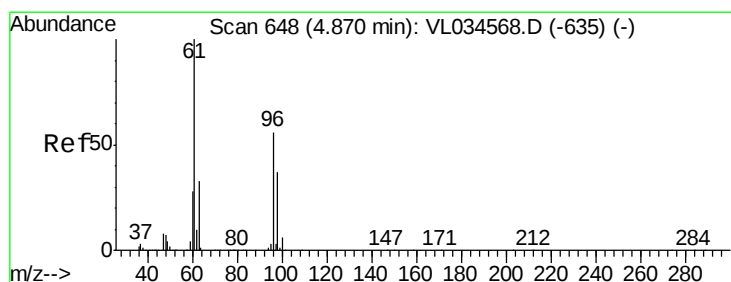
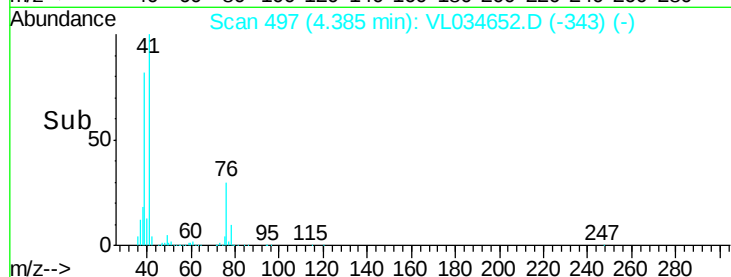
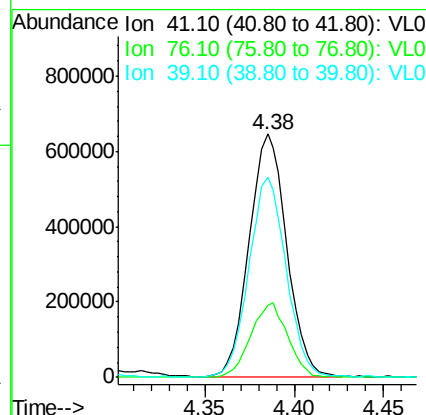
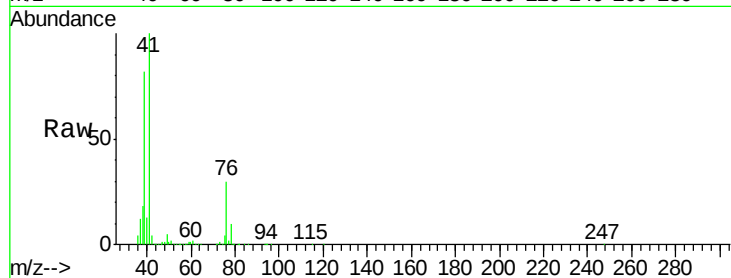
#21
Allvl Chloride
Concen: 10.638 ppbv
RT: 4.38 min Scan# 497
Delta R.T. -0.01 min
Lab File: VL034652.D
Acq: 19 Feb 2020 18:58

Instrument :
MSVOA_L
ClientSampleId :
VL0219ABS01

Tot Ion	Ratio	Lower	Upper
41	100		
76	30.3	24.2	36.2
39	82.4	68.3	102.5

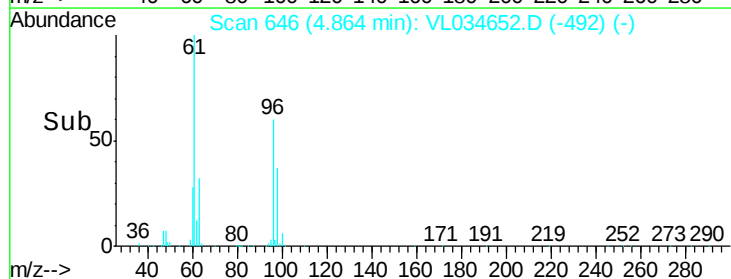
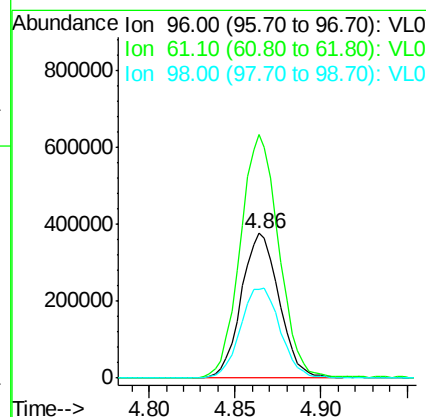
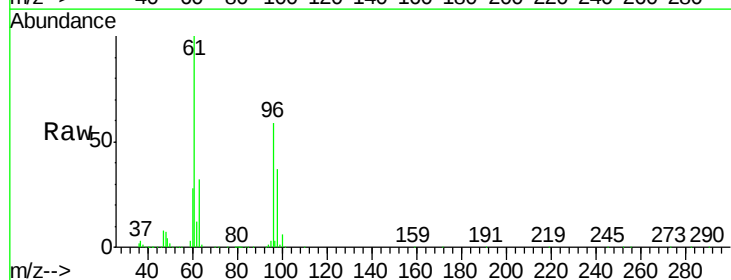
Manual Integrations
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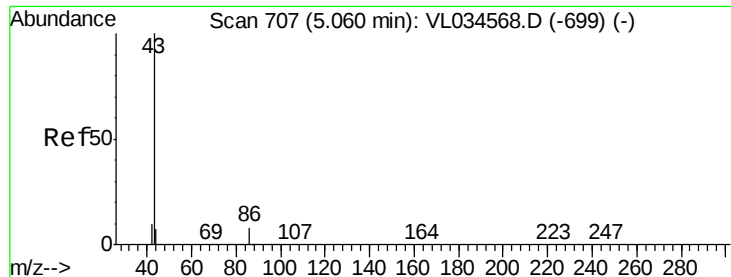
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 10.216 ppbv
RT: 4.86 min Scan# 646
Delta R.T. -0.01 min
Lab File: VL034652.D
Acq: 19 Feb 2020 18:58

Tgt Ion	Ratio	Lower	Upper
96	100		
61	168.0	141.9	212.9
98	61.4	53.1	79.7





#23

Vinyl Acetate

Concen: 12.328 ppbv

RT: 5.05 min Scan# 705

Delta R.T. -0.01 min

Lab File: VL034652.D

Acq: 19 Feb 2020 18:58

Instrument :

MSVOA_L

ClientSampleId :

VL0219ABS01

Tot Ion: 43 Resp: 2018913

Ion Ratio Lower Upper

43 100

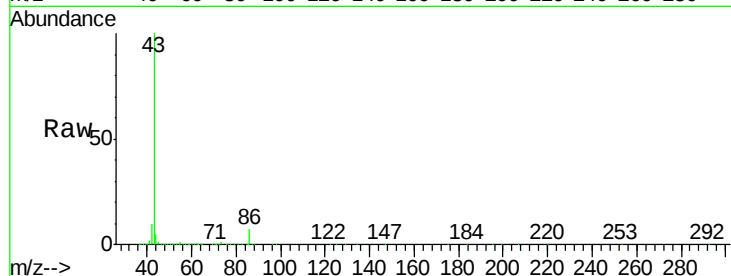
86 7.3 5.9 8.9

42 10.2 8.8 13.2

44 5.1 5.0 7.6

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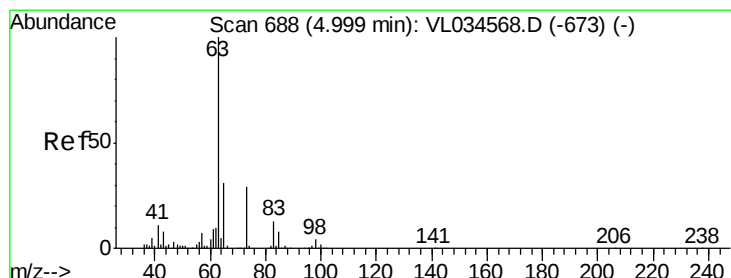
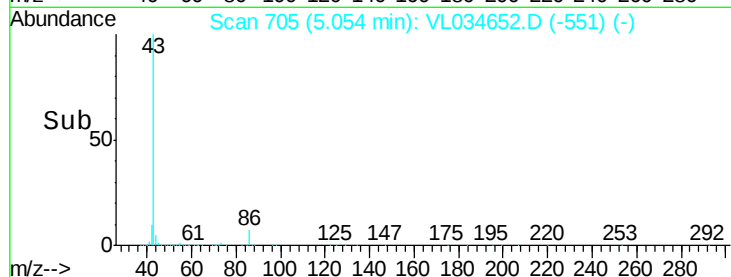
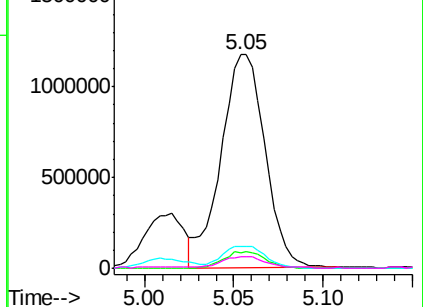


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 10.628 ppbv

RT: 4.99 min Scan# 686

Delta R.T. -0.01 min

Lab File: VL034652.D

Acq: 19 Feb 2020 18:58

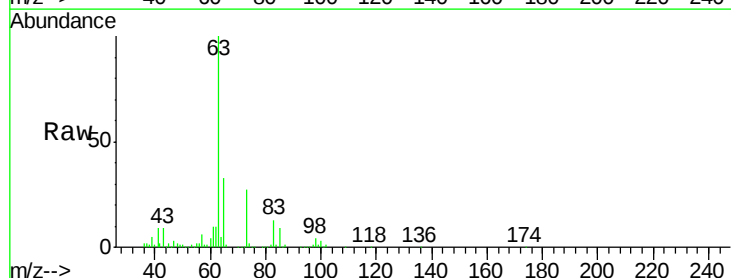
Tgt Ion: 63 Resp: 1453098

Ion Ratio Lower Upper

63 100

98 4.3 2.1 6.2

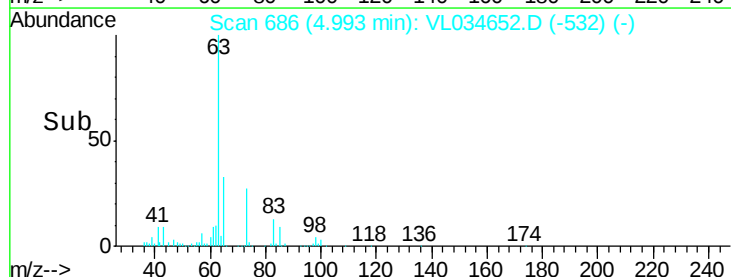
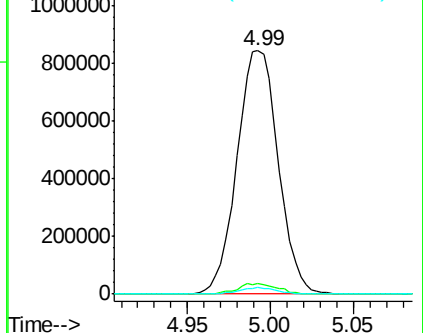
100 2.8 1.1 3.5

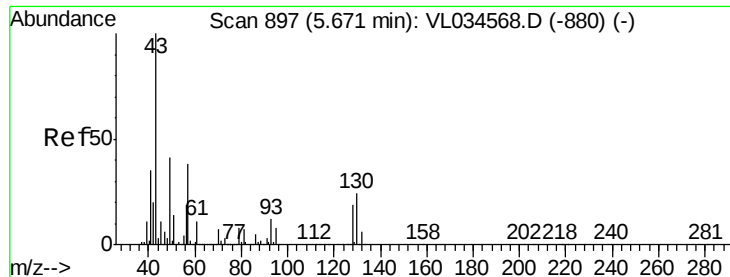


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.919 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.01 min

Lab File: VL034652.D

Acq: 19 Feb 2020 18:58

Instrument :

MSVOA_L

ClientSampleId :

VL0219ABS01

Tot Ion: 43 Resp: 2305008

Ion Ratio Lower Upper

43 100

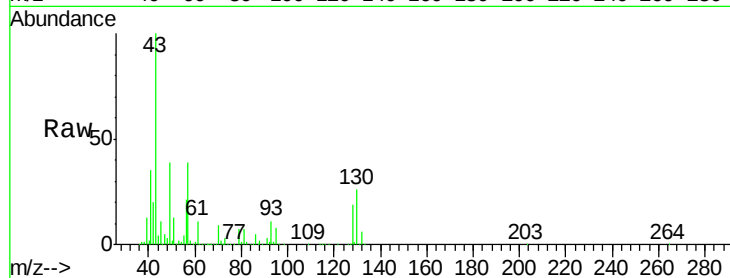
45 10.4 8.5 12.7

61 10.0 7.8 11.6

70 7.5 5.8 8.8

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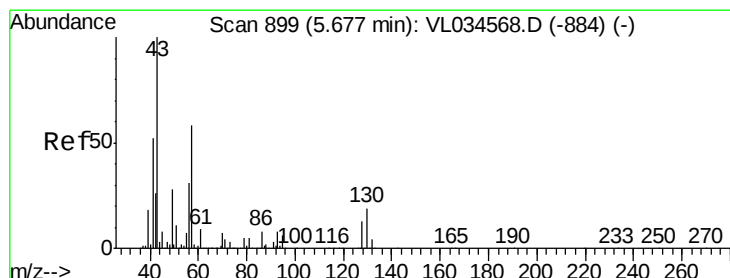
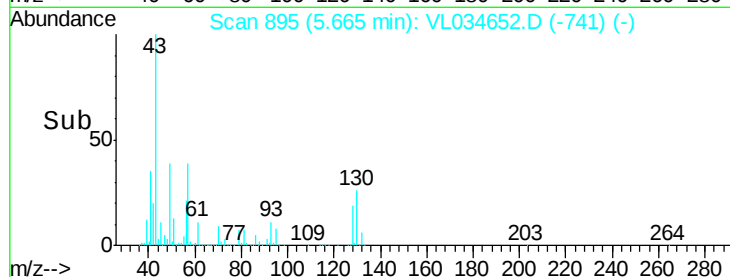
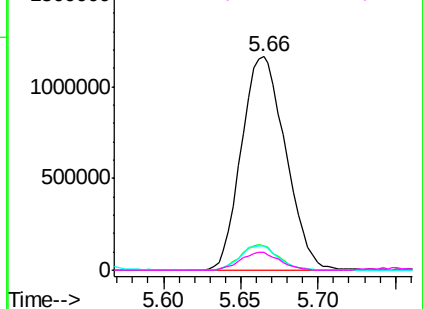


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 10.628 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.00 min

Lab File: VL034652.D

Acq: 19 Feb 2020 18:58

Tgt Ion: 57 Resp: 1034434

Ion Ratio Lower Upper

57 100

41 92.3 76.2 114.2

43 223.7 189.9 284.9

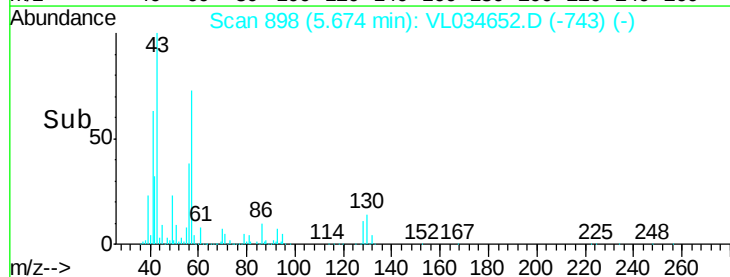
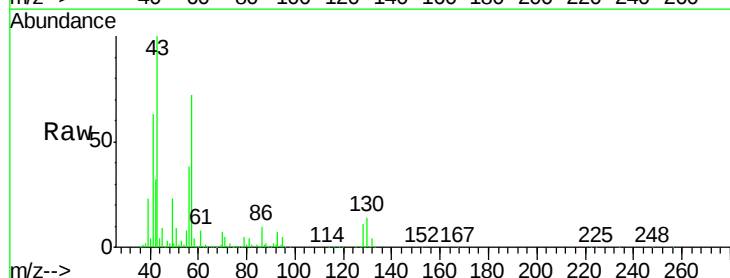
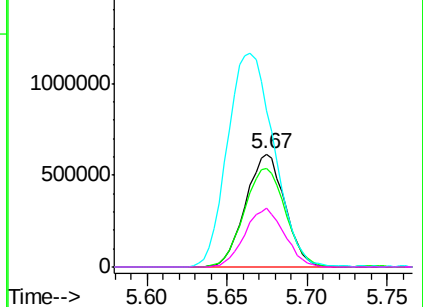
56 52.3 43.6 65.4

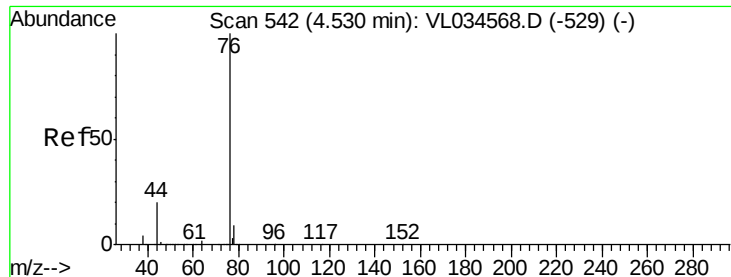
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 11.173 ppbv

RT: 4.52 min Scan# 540

Delta R.T. -0.01 min

Lab File: VL034652.D

Acq: 19 Feb 2020 18:58

Instrument :

MSVOA_L

ClientSampleId :

VL0219ABS01

Tot Ion: 76 Resp: 1467419

Ion Ratio Lower Upper

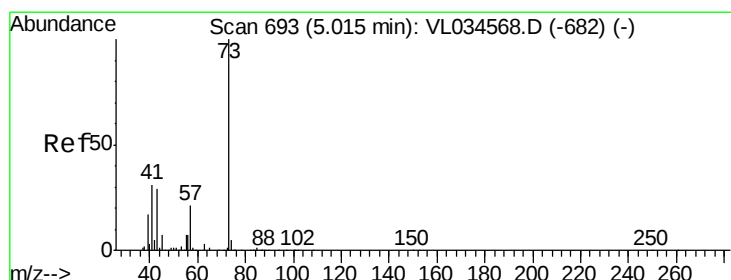
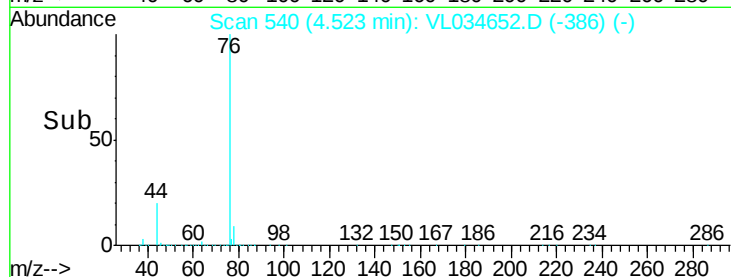
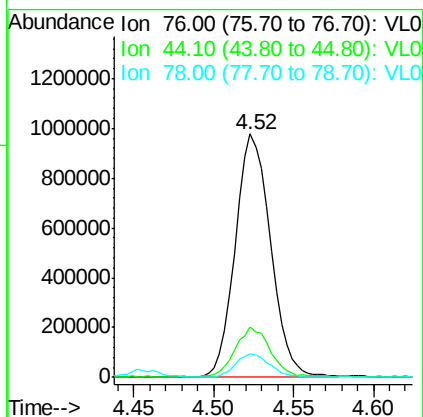
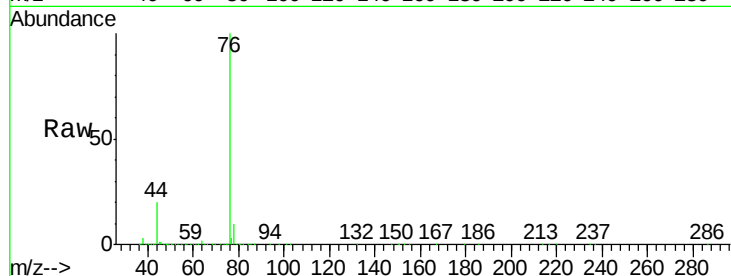
76 100

44 20.2 16.3 24.5

78 9.4 7.4 11.2

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#28

Methyl tert-Butyl Ether

Concen: 11.338 ppbv

RT: 5.01 min Scan# 692

Delta R.T. -0.00 min

Lab File: VL034652.D

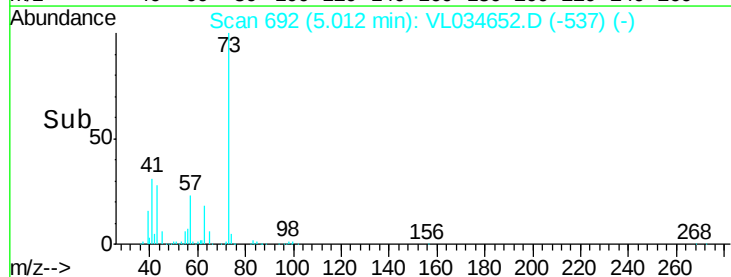
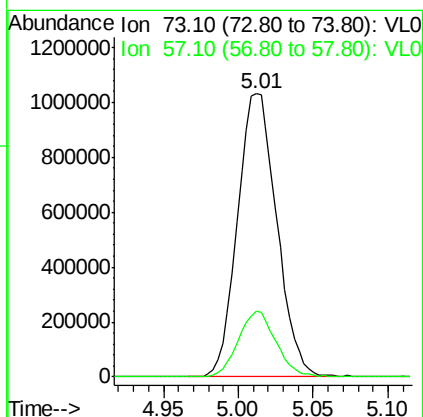
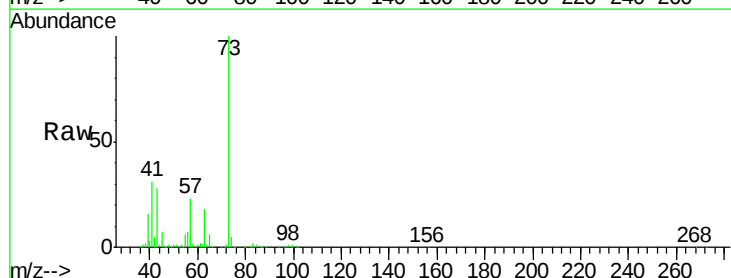
Acq: 19 Feb 2020 18:58

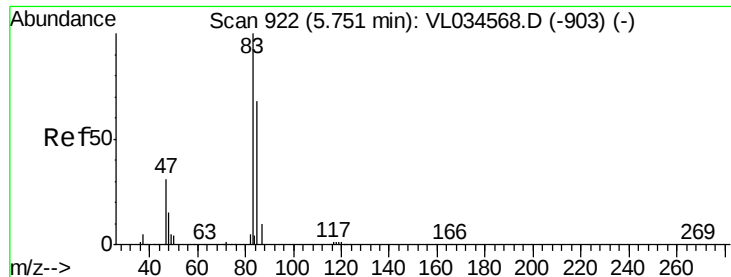
Tgt Ion: 73 Resp: 1882102

Ion Ratio Lower Upper

73 100

57 22.4 17.9 26.9





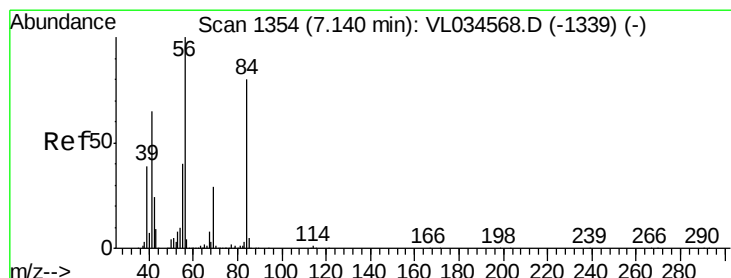
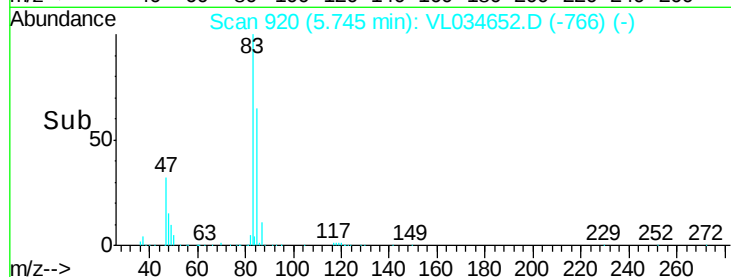
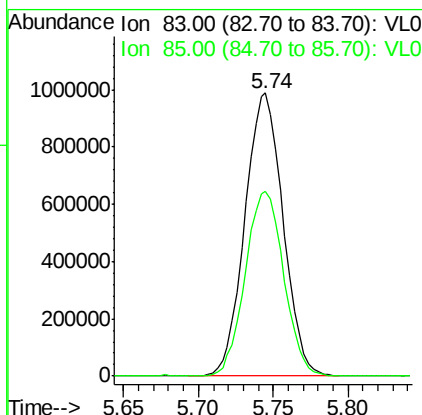
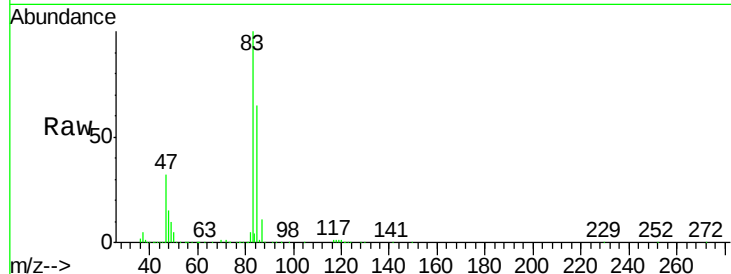
#29
Chloroform
Concen: 10.194 ppbv
RT: 5.74 min Scan# 920
Delta R.T. -0.01 min
Lab File: VL034652.D
Acq: 19 Feb 2020 18:58

Instrument :
MSVOA_L
ClientSampleId :
VL0219ABS01

Tot Ion: 83 Resp: 1754490
Ion Ratio Lower Upper
83 100
85 65.2 54.0 81.0

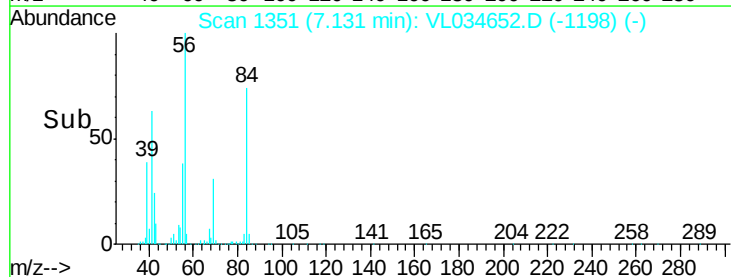
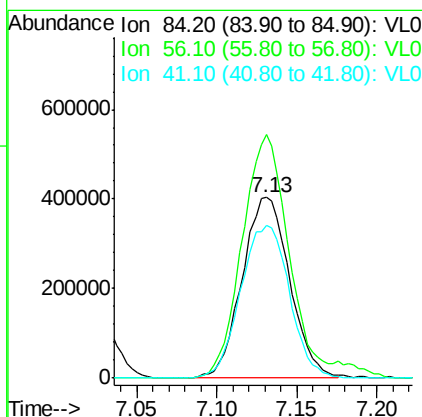
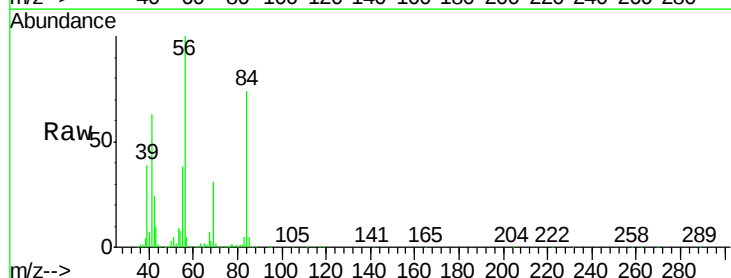
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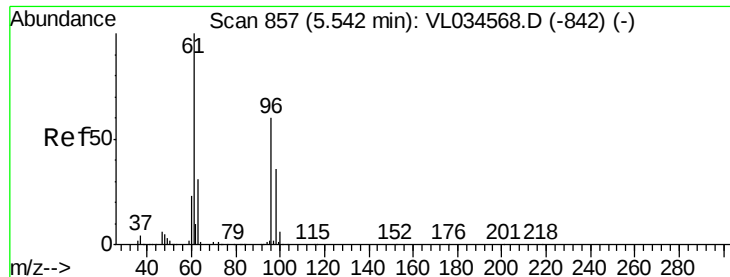
MMDadoda
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#30
Cyclohexane
Concen: 11.301 ppbv
RT: 7.13 min Scan# 1351
Delta R.T. -0.01 min
Lab File: VL034652.D
Acq: 19 Feb 2020 18:58

Tgt Ion: 84 Resp: 815129
Ion Ratio Lower Upper
84 100
56 137.8 110.5 165.7
41 87.2 71.9 107.9





#31

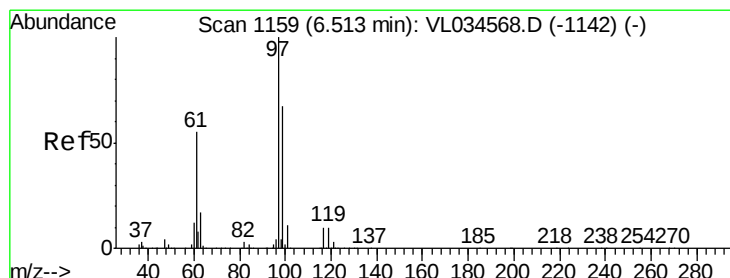
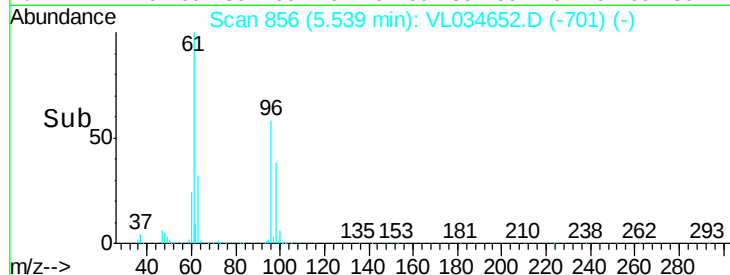
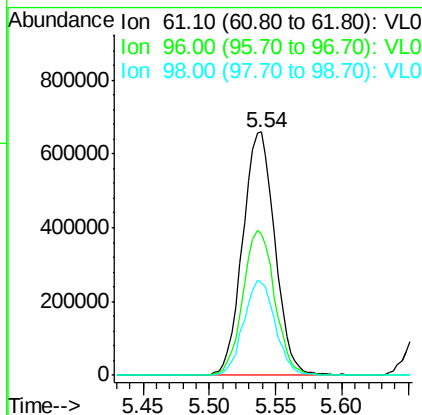
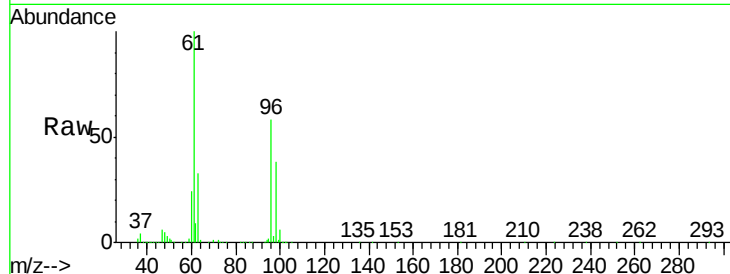
cis-1,2-Dichloroethene
Concen: 11.023 ppbv
RT: 5.54 min Scan# 856
Delta R.T. -0.00 min
Lab File: VL034652.D
Acq: 19 Feb 2020 18:58

Instrument :
MSVOA_L
ClientSampleId :
VL0219ABS01

Tot Ion	Ratio	Lower	Upper
61	100		
96	58.2	48.0	72.0
98	38.1	28.6	43.0

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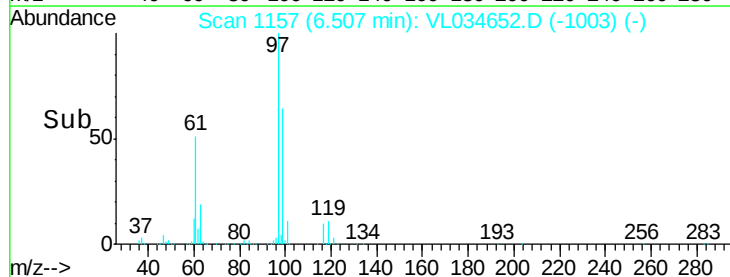
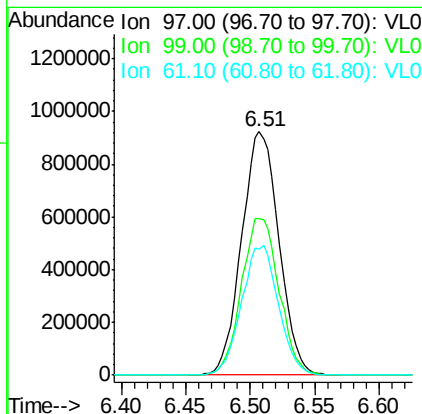
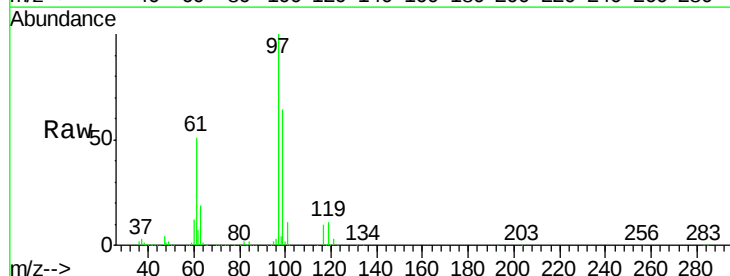
MMDadoda
2/21/2020 3:24:06 PM

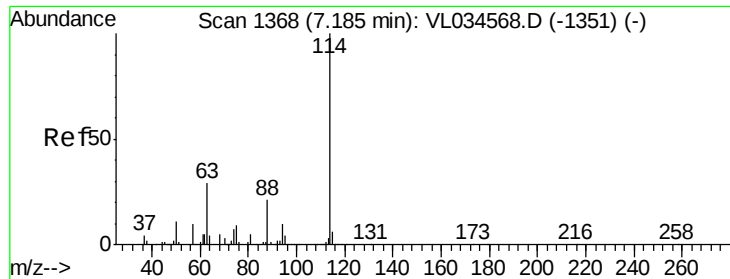


#32

1,1,1-Trichloroethane
Concen: 10.089 ppbv
RT: 6.51 min Scan# 1157
Delta R.T. -0.01 min
Lab File: VL034652.D
Acq: 19 Feb 2020 18:58

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.0	52.2	78.2
61	52.8	43.0	64.4





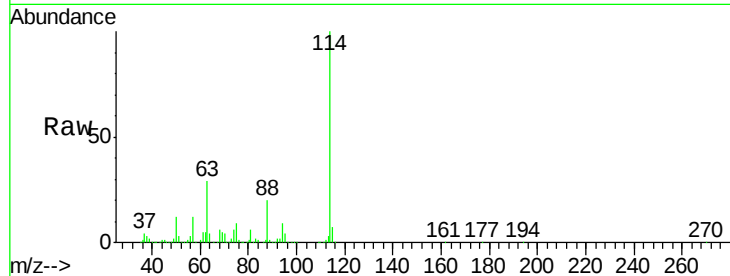
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. -0.01 min
 Lab File: VL034652.D
 Acq: 19 Feb 2020 18:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0219ABS01

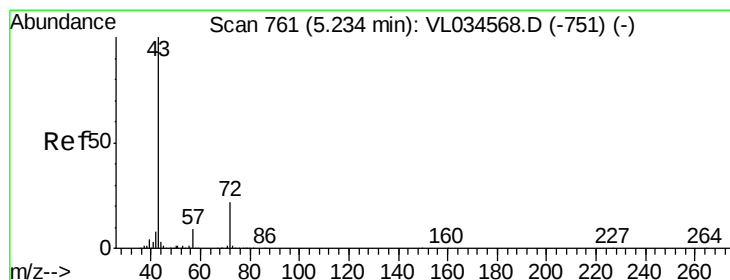
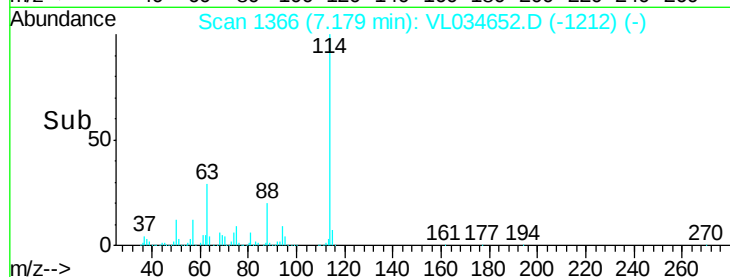
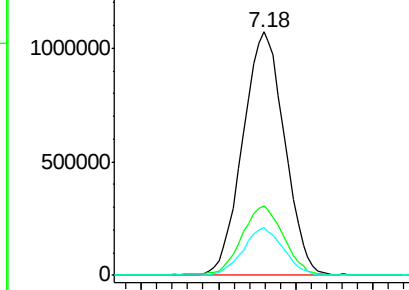
Tot Ion	Ratio	Lower	Upper
114	100		
63	29.0	24.1	36.1
88	18.9	15.9	23.9

Manual Integrations
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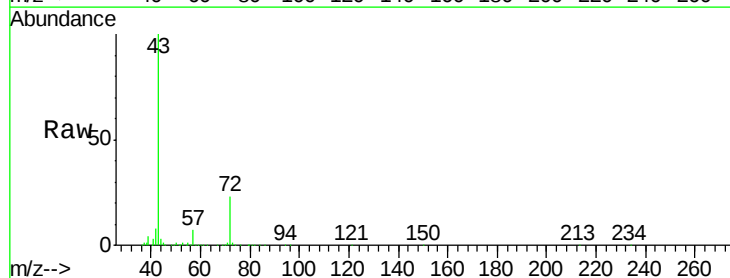


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

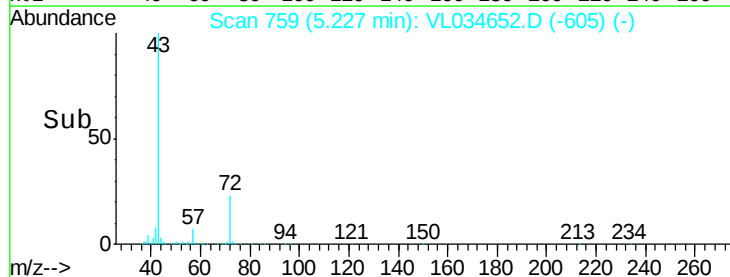
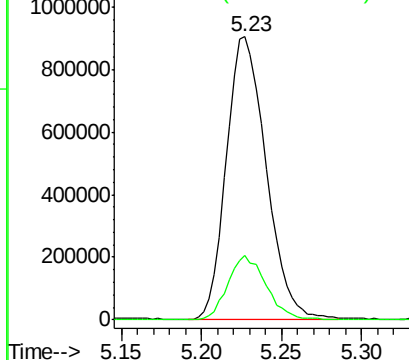


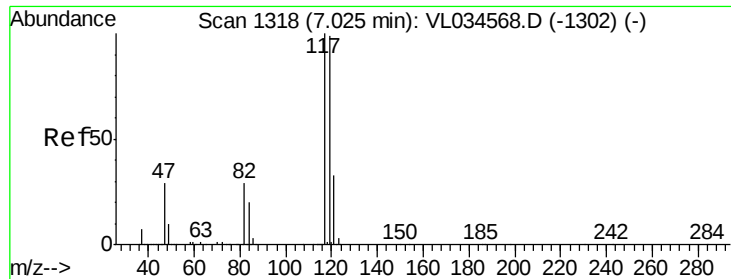
#34
 2-Butanone
 Concen: 10.446 ppbv
 RT: 5.23 min Scan# 759
 Delta R.T. -0.01 min
 Lab File: VL034652.D
 Acq: 19 Feb 2020 18:58

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.8	17.2	25.8



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 10.170 ppbv

RT: 7.02 min Scan# 1317

Delta R.T. -0.00 min

Lab File: VL034652.D

Acq: 19 Feb 2020 18:58

Instrument :

MSVOA_L

ClientSampleId :

VL0219ABS01

Tot Ion:117 Resp: 1959720

Ion Ratio Lower Upper

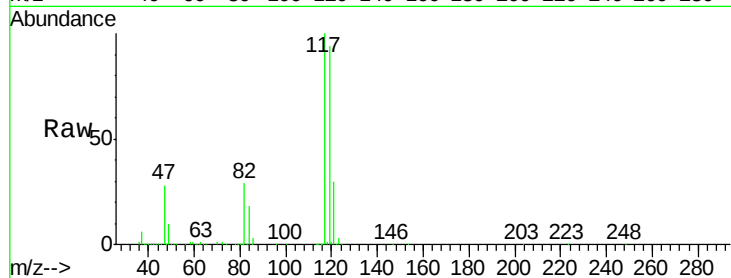
117 100

119 93.7 79.5 119.3

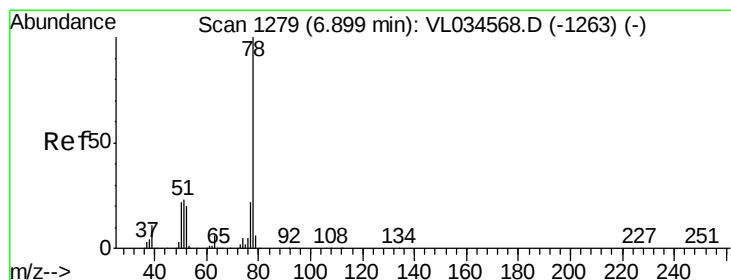
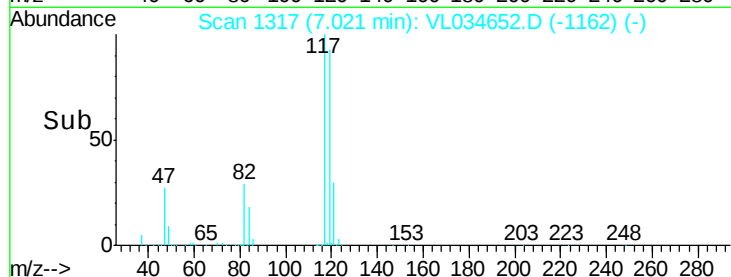
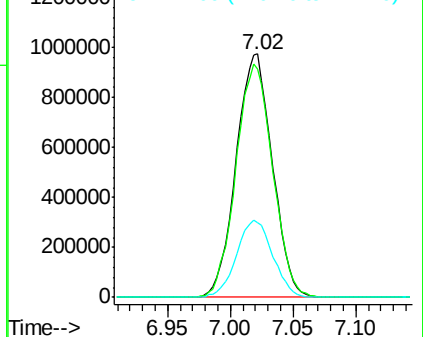
121 30.4 26.2 39.2

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Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 10.896 ppbv

RT: 6.89 min Scan# 1277

Delta R.T. -0.01 min

Lab File: VL034652.D

Acq: 19 Feb 2020 18:58

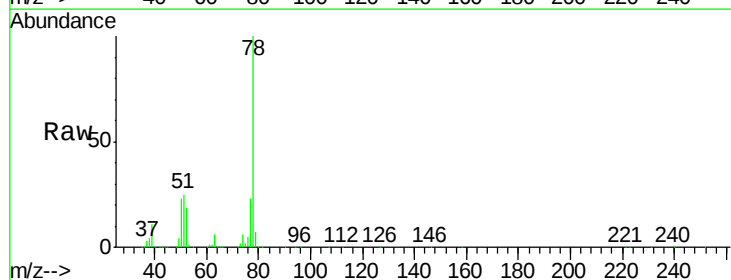
Tgt Ion: 78 Resp: 1952964

Ion Ratio Lower Upper

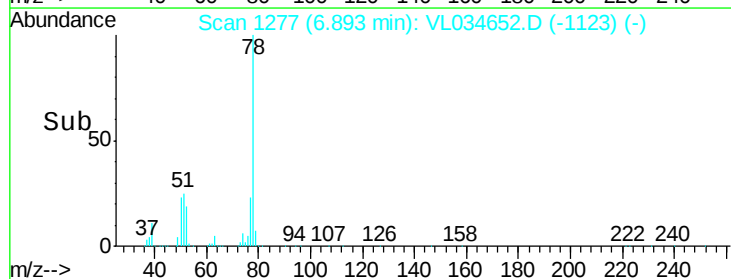
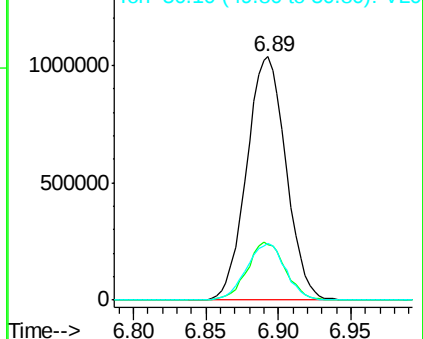
78 100

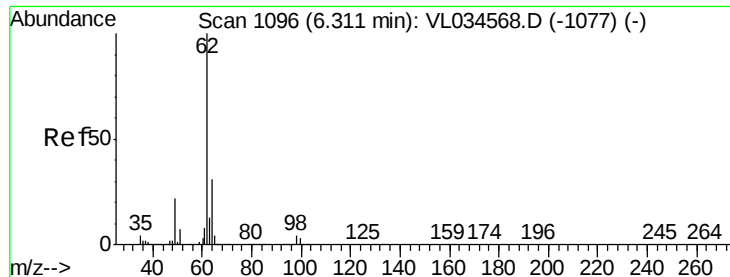
77 22.9 17.3 25.9

50 23.4 17.4 26.2



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0





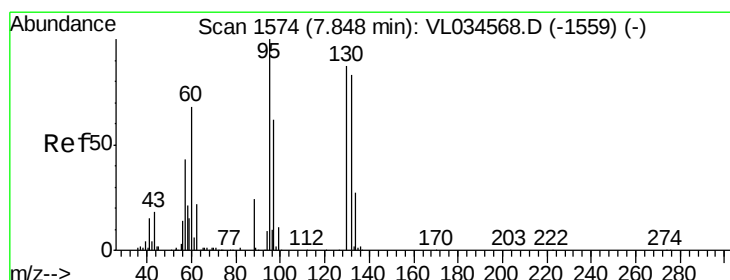
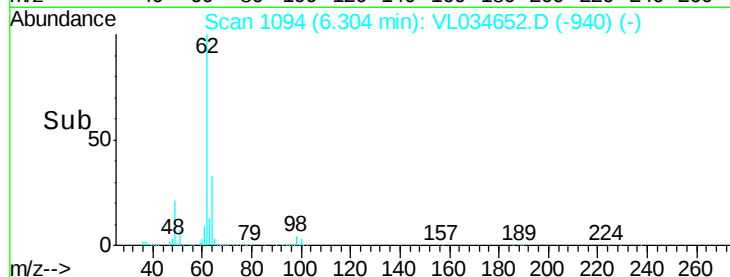
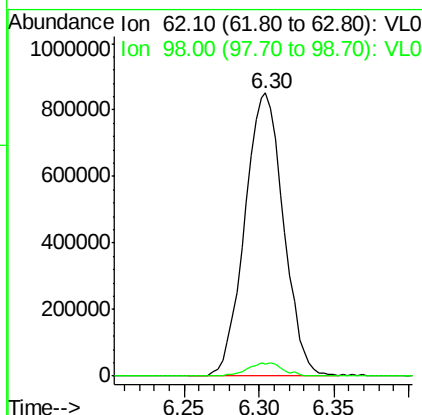
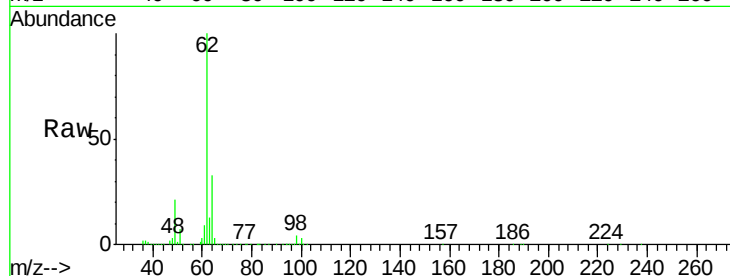
#37
 1,2-Dichloroethane
 Concen: 10.252 ppbv
 RT: 6.30 min Scan# 1094
 Delta R.T. -0.01 min
 Lab File: VL034652.D
 Acq: 19 Feb 2020 18:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0219ABS01

Tot Ion	Ratio	Lower	Upper
62	100		
98	4.4	3.7	5.5

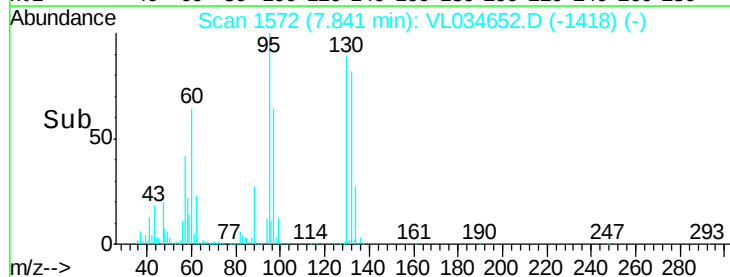
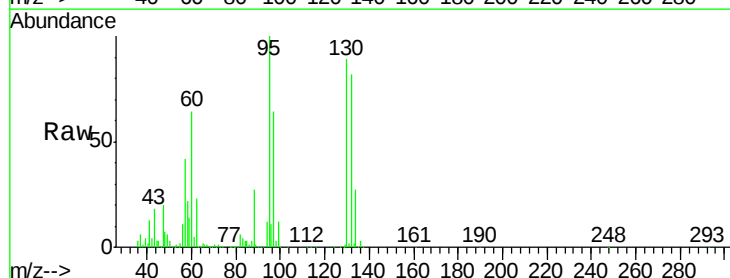
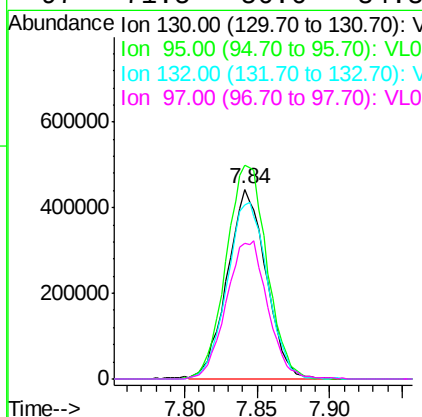
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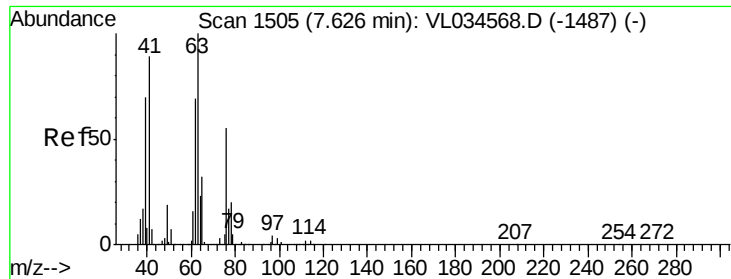
MMDadoda
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#38
 Trichloroethene
 Concen: 10.760 ppbv
 RT: 7.84 min Scan# 1572
 Delta R.T. -0.01 min
 Lab File: VL034652.D
 Acq: 19 Feb 2020 18:58

Tgt Ion	Ratio	Lower	Upper
130	100		
95	112.5	91.6	137.4
132	91.6	76.1	114.1
97	71.5	56.6	84.8





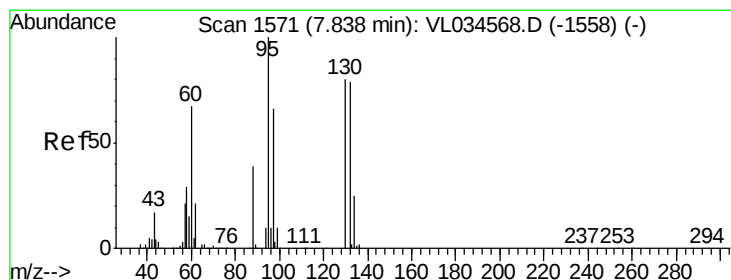
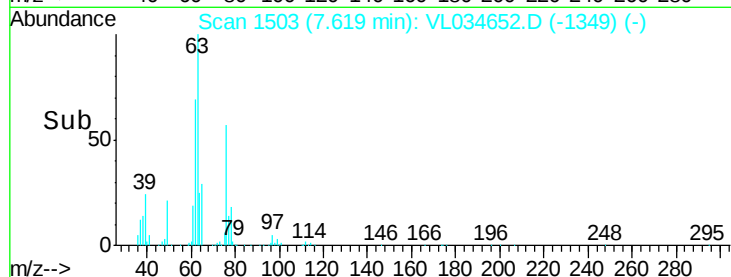
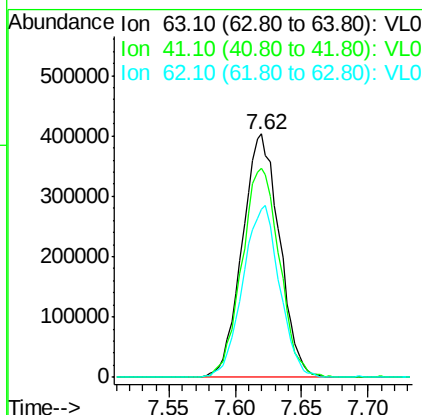
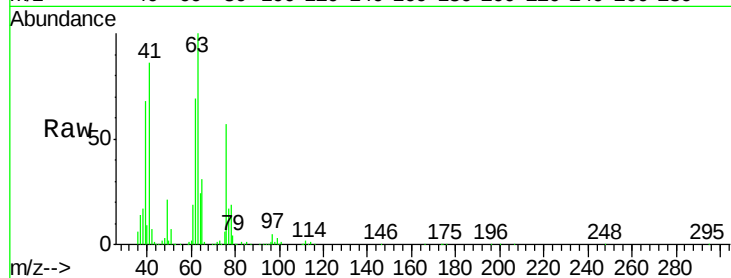
#39
 1,2-Dichloropropane
 Concen: 10.582 ppbv
 RT: 7.62 min Scan# 1503
 Delta R.T. -0.01 min
 Lab File: VL034652.D
 Acq: 19 Feb 2020 18:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0219ABS01

Tot Ion	Ratio	Lower	Upper
63	100		
41	85.7	71.0	106.4
62	69.1	55.4	83.0

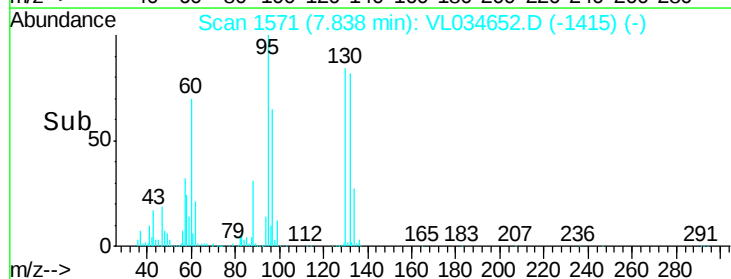
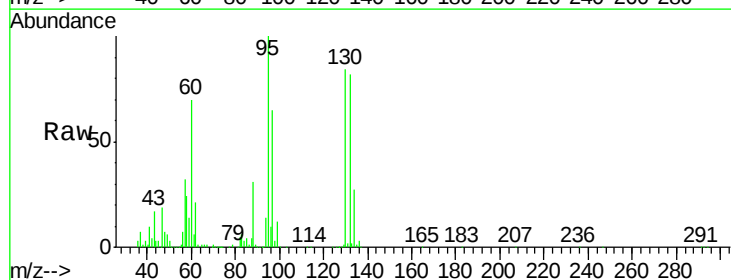
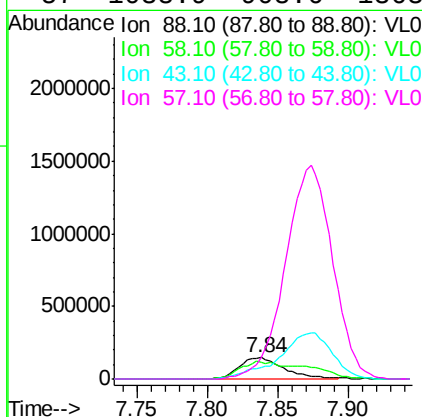
Manual Integrations
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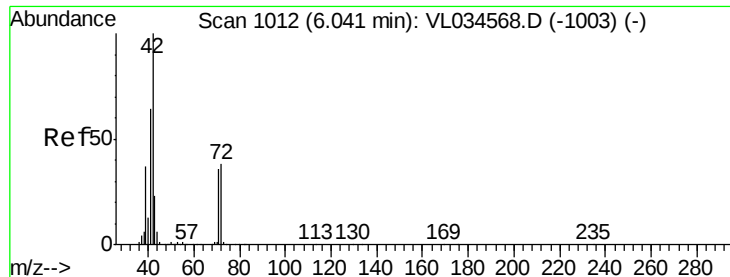
MMDadoda
 2/21/2020 3:24:06 PM



#40
 1,4-Dioxane
 Concen: 11.593 ppbv
 RT: 7.84 min Scan# 1571
 Delta R.T. 0.00 min
 Lab File: VL034652.D
 Acq: 19 Feb 2020 18:58

Tgt Ion	Ratio	Lower	Upper
88	100		
58	126.2	107.8	161.8
43	252.9	220.9	331.3
57	1038.9	908.6	1363.0





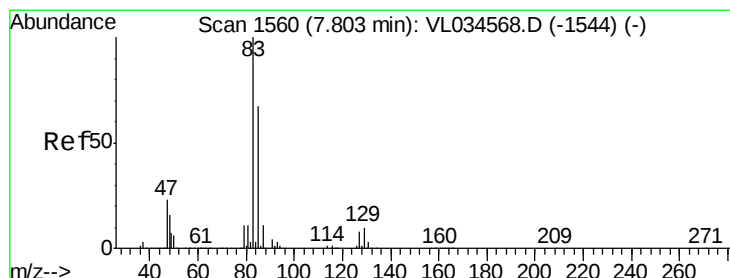
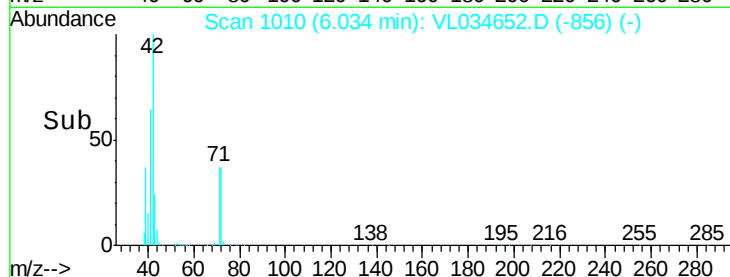
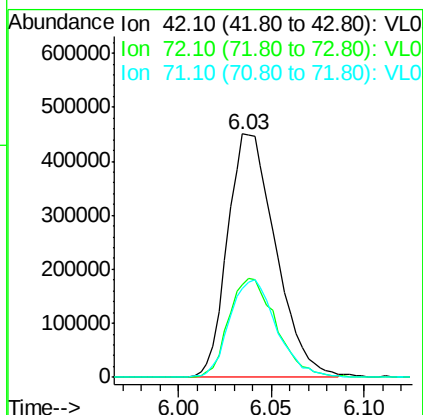
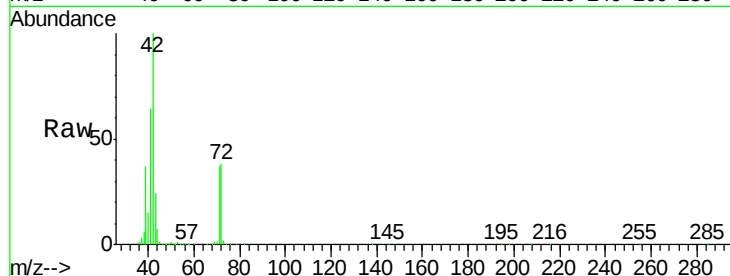
#41
Tetrahydrofuran
Concen: 10.594 ppbv
RT: 6.03 min Scan# 1010
Delta R.T. -0.01 min
Lab File: VL034652.D
Acq: 19 Feb 2020 18:58

Instrument :
MSVOA_L
ClientSampleId :
VL0219ABS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.7	31.8	47.8
71	39.5	30.2	45.4

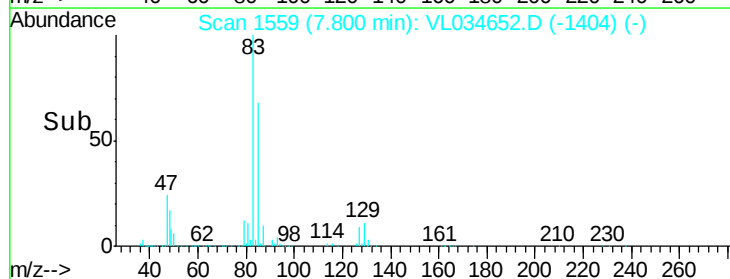
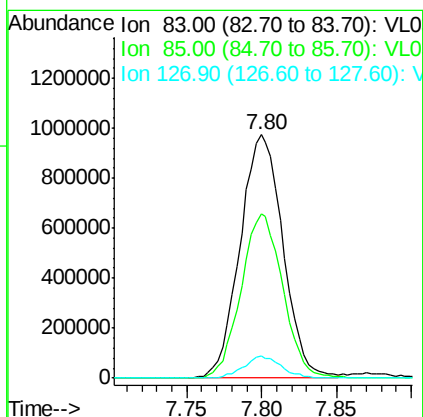
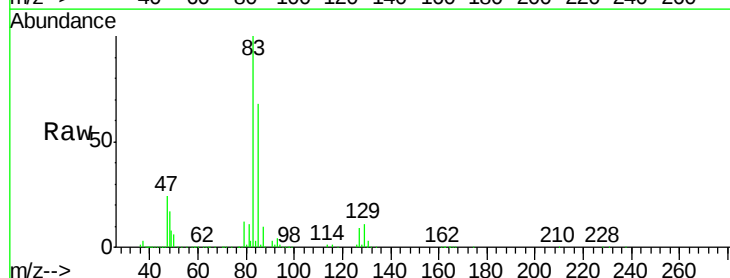
Manual Integrations
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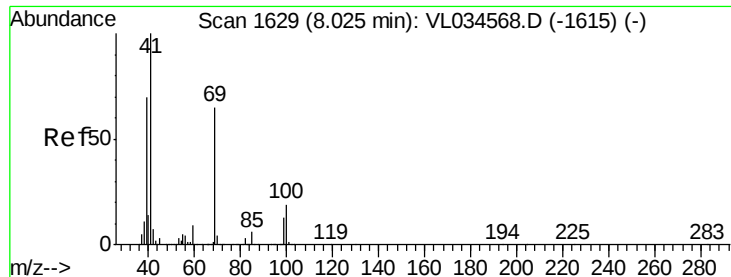
MMDadoda
2/21/2020 3:24:06 PM



#42
Bromodichloromethane
Concen: 10.539 ppbv
RT: 7.80 min Scan# 1559
Delta R.T. -0.00 min
Lab File: VL034652.D
Acq: 19 Feb 2020 18:58

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.5	53.2	79.8
127	9.1	6.5	9.7





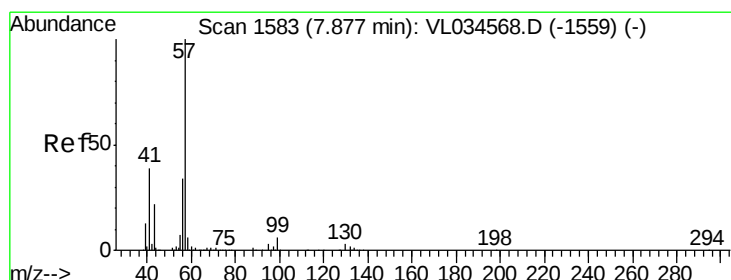
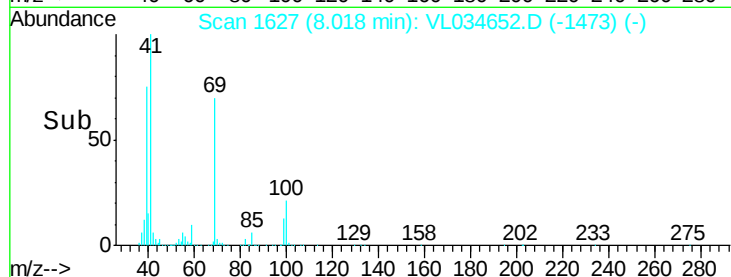
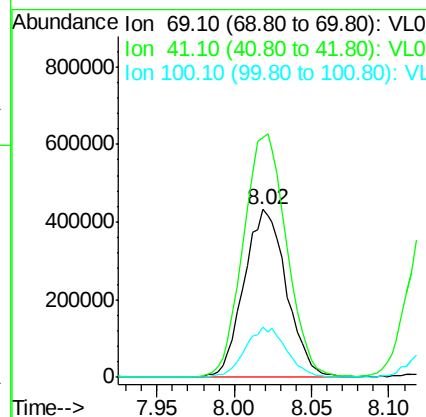
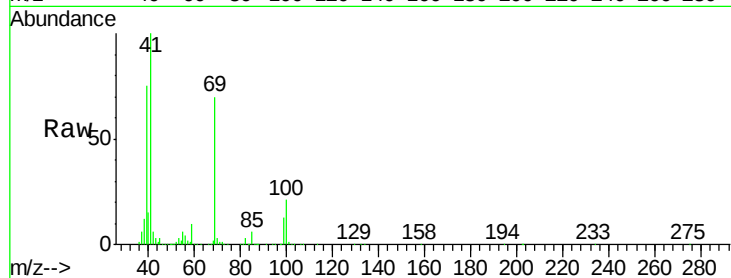
#43
Methvl Methacrilate
Concen: 11.448 ppbv
RT: 8.02 min Scan# 1627
Delta R.T. -0.01 min
Lab File: VL034652.D
Acq: 19 Feb 2020 18:58

Instrument :
MSVOA_L
ClientSampleId :
VL0219ABS01

Tot Ion	Ratio	Lower	Upper
69	100		
41	147.9	123.9	185.9
100	29.2	24.1	36.1

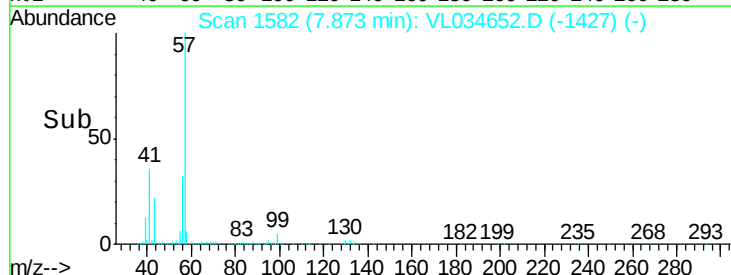
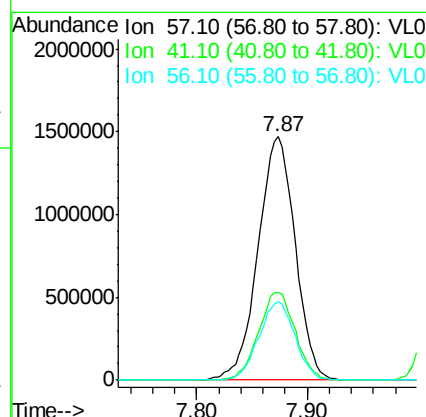
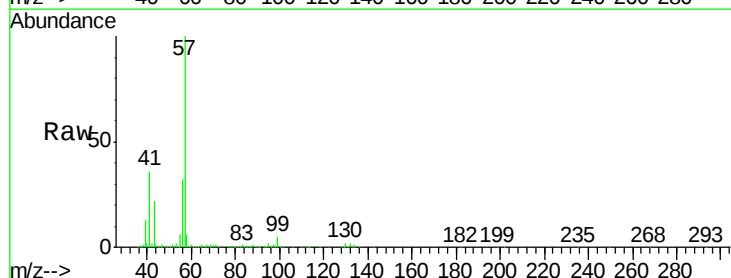
Manual Integrations
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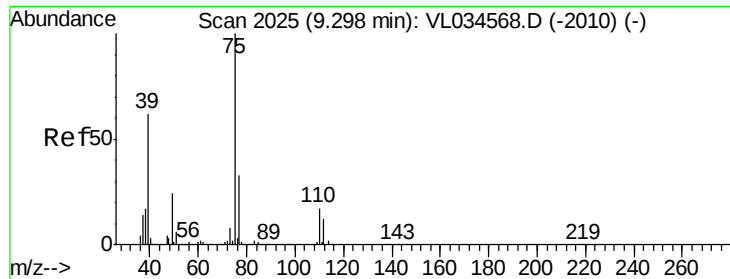
MMDadoda
2/21/2020 3:24:06 PM



#44
2,2,4-Trimethylpentane
Concen: 10.559 ppbv
RT: 7.87 min Scan# 1582
Delta R.T. -0.00 min
Lab File: VL034652.D
Acq: 19 Feb 2020 18:58

Tgt Ion	Ratio	Lower	Upper
57	100		
41	35.7	28.9	43.3
56	31.3	25.5	38.3





#45

t-1,3-Dichloropropene

Concen: 11.492 ppbv

RT: 9.29 min Scan# 2024

Delta R.T. -0.00 min

Lab File: VL034652.D

Acq: 19 Feb 2020 18:58

Instrument :

MSVOA_L

ClientSampleId :

VL0219ABS01

Tot Ion: 75 Resp: 1084854

Ion Ratio Lower Upper

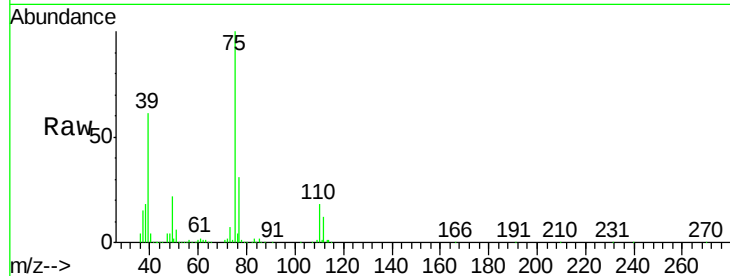
75 100

77 31.2 26.7 40.1

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.29

600000

500000

400000

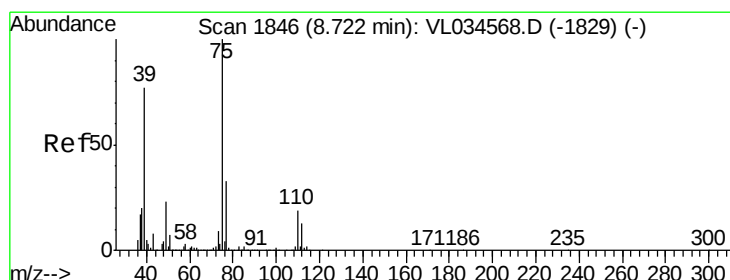
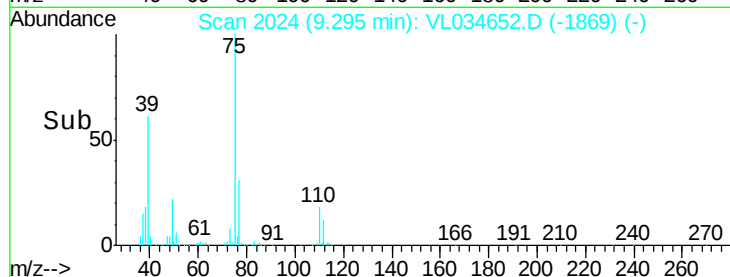
300000

200000

100000

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 11.470 ppbv

RT: 8.72 min Scan# 1844

Delta R.T. -0.01 min

Lab File: VL034652.D

Acq: 19 Feb 2020 18:58

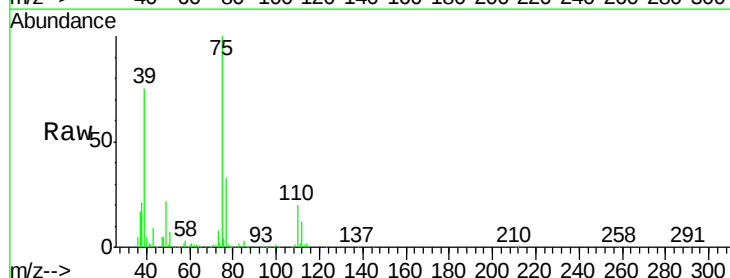
Tgt Ion: 75 Resp: 1230625

Ion Ratio Lower Upper

75 100

39 75.1 61.9 92.9

77 32.7 26.1 39.1



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

8.72

800000

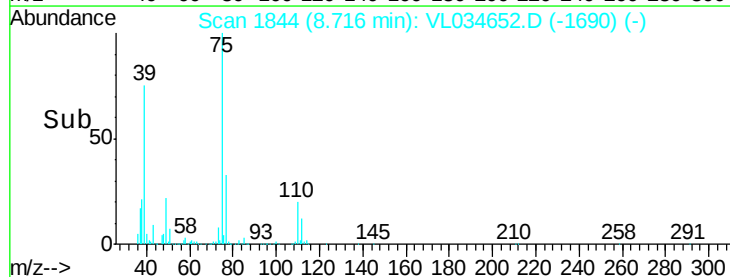
600000

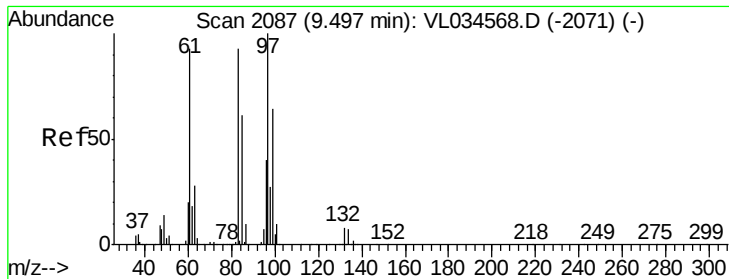
400000

200000

0

Time-->





#47

1,1,2-Trichloroethane

Concen: 10.706 ppbv

RT: 9.49 min Scan# 2086

Delta R.T. -0.00 min

Lab File: VL034652.D

Acq: 19 Feb 2020 18:58

Instrument :

MSVOA_L

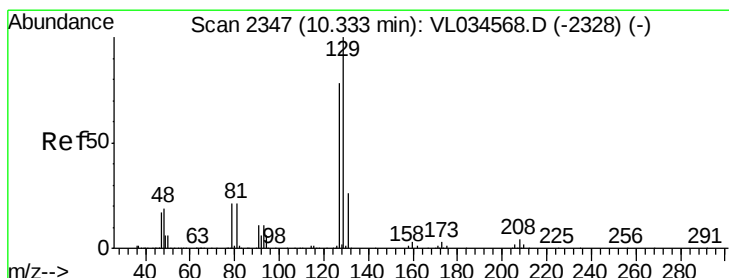
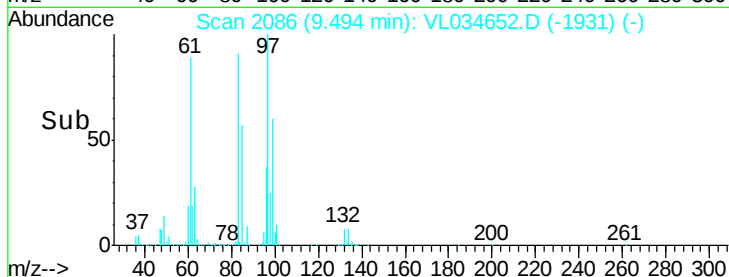
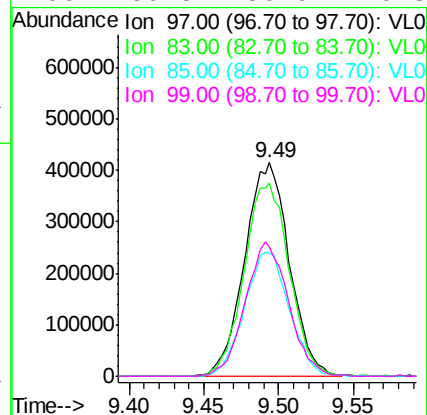
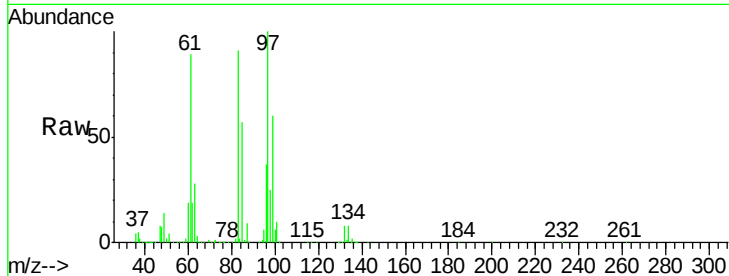
ClientSampleId :

VL0219ABS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		861592		
83	90.5	74.4	111.6		
85	57.2	49.2	73.8		
99	60.3	50.9	76.3		

Manual Integrations
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#48

Dibromochloromethane

Concen: 11.015 ppbv

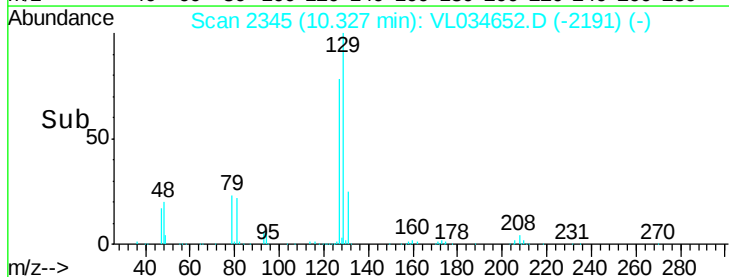
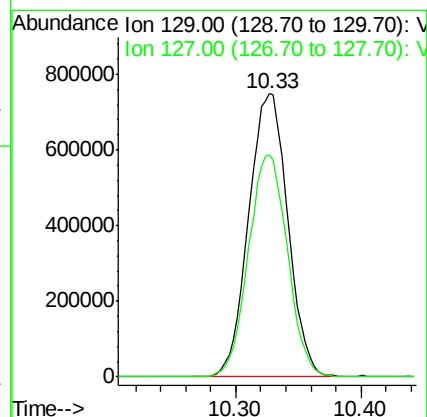
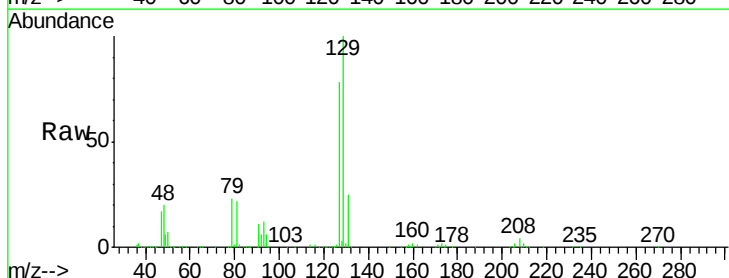
RT: 10.33 min Scan# 2345

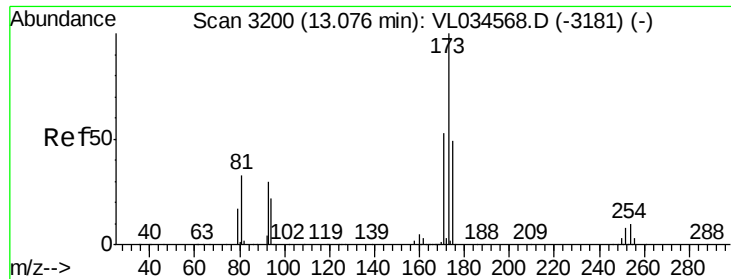
Delta R.T. -0.01 min

Lab File: VL034652.D

Acq: 19 Feb 2020 18:58

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		1624375		
127	78.3	39.1	117.2		





#49

Bromoform

Concen: 11.247 ppbv

RT: 13.07 min Scan# 3198

Delta R.T. -0.01 min

Lab File: VL034652.D

Acq: 19 Feb 2020 18:58

Instrument :

MSVOA_L

ClientSampleId :

VL0219ABS01

Tot Ion:173 Resp: 1456265

Ion Ratio Lower Upper

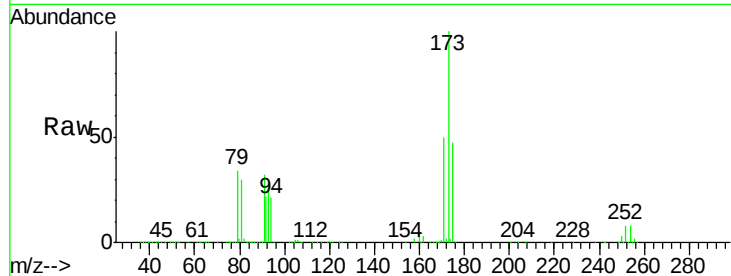
173 100

175 49.9 39.7 59.5

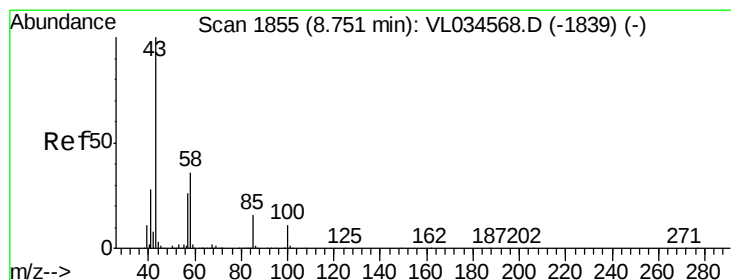
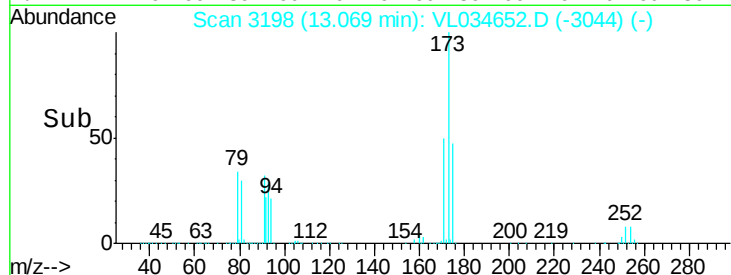
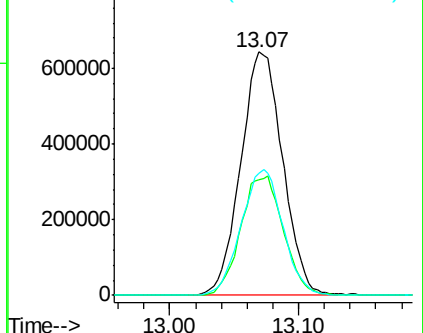
171 51.5 41.6 62.4

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Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 10.625 ppbv

RT: 8.75 min Scan# 1854

Delta R.T. -0.00 min

Lab File: VL034652.D

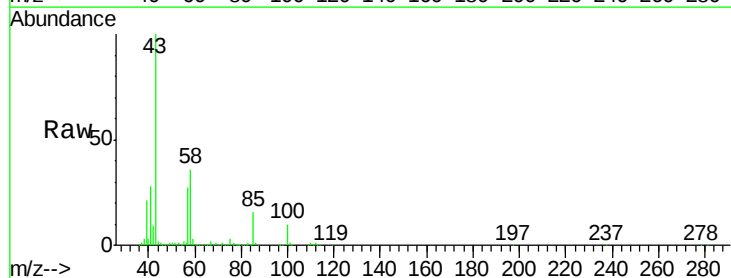
Acq: 19 Feb 2020 18:58

Tgt Ion: 43 Resp: 2217557

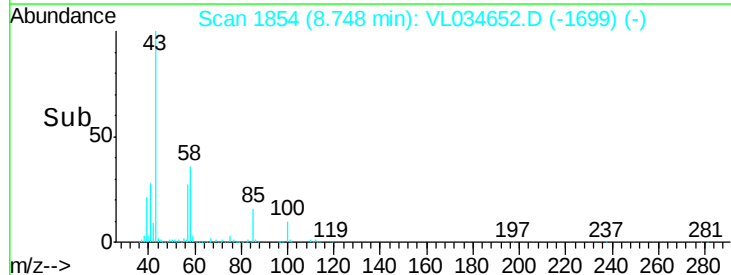
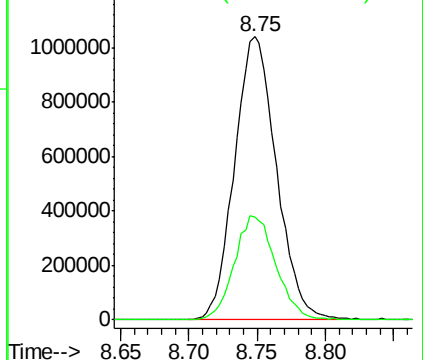
Ion Ratio Lower Upper

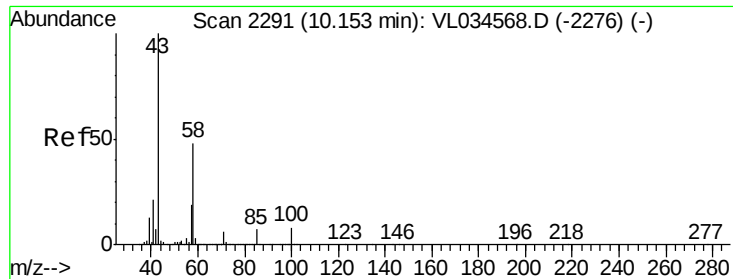
43 100

58 36.4 28.6 43.0



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0





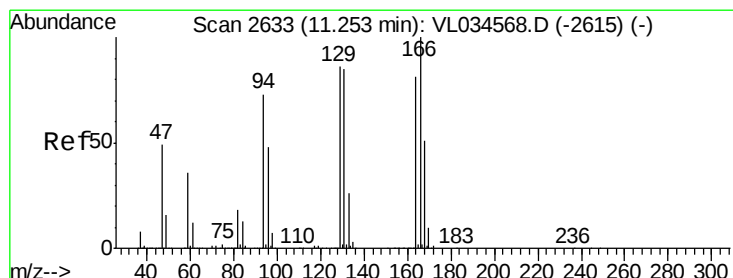
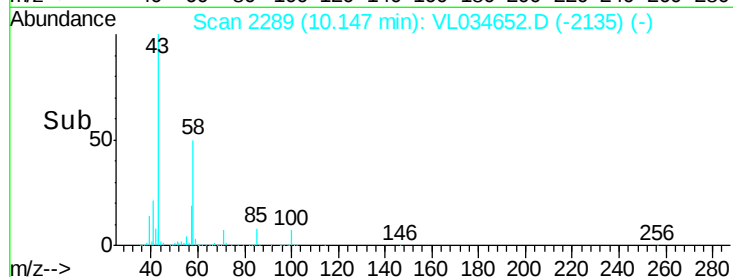
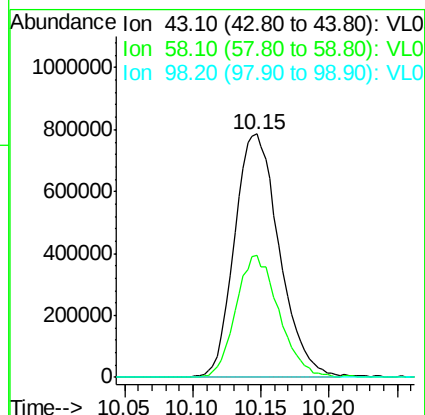
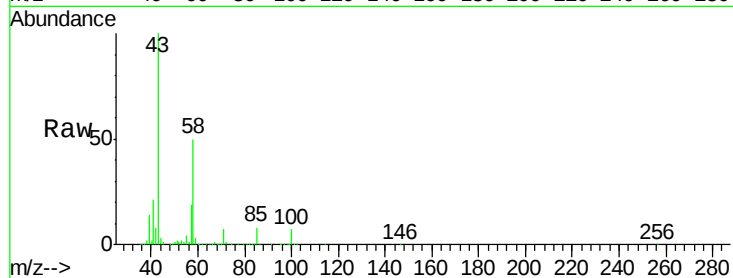
#51
2-Hexanone
Concen: 10.895 ppbv
RT: 10.15 min Scan# 2289
Delta R.T. -0.01 min
Lab File: VL034652.D
Acq: 19 Feb 2020 18:58

Instrument :
MSVOA_L
ClientSampleId :
VL0219ABS01

Tot Ion: 43 Resp: 1789861
Ion Ratio Lower Upper
43 100
58 48.5 37.9 56.9
98 0.2 0.3 0.5#

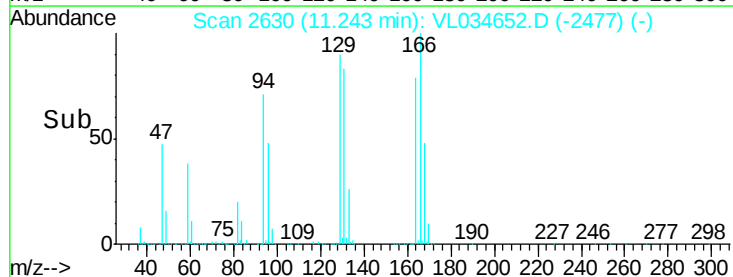
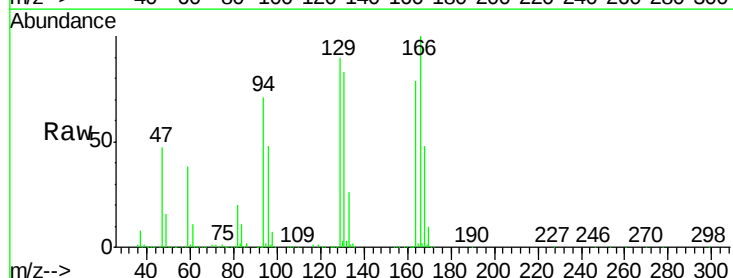
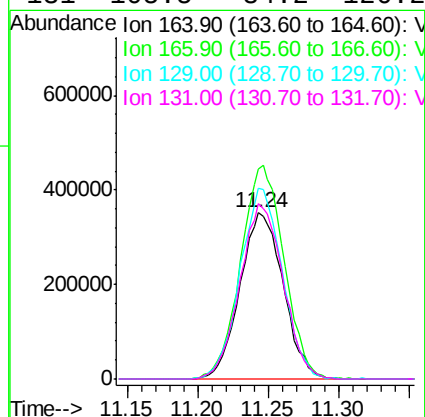
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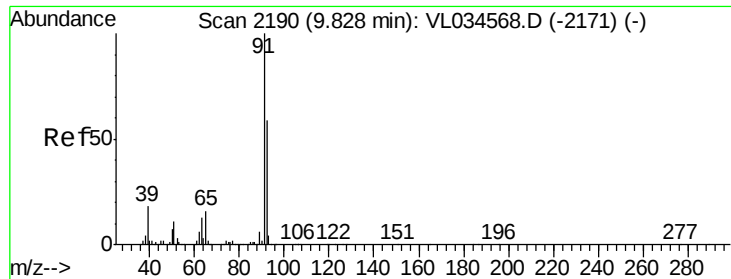
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#52
Tetrachloroethene
Concen: 10.462 ppbv
RT: 11.24 min Scan# 2630
Delta R.T. -0.01 min
Lab File: VL034652.D
Acq: 19 Feb 2020 18:58

Tgt Ion: 164 Resp: 753323
Ion Ratio Lower Upper
164 100
166 126.6 99.0 148.4
129 114.4 85.3 127.9
131 105.5 84.2 126.2





#53

Toluene

Concen: 11.462 ppbv

RT: 9.82 min Scan# 2188

Delta R.T. -0.01 min

Lab File: VL034652.D

Acq: 19 Feb 2020 18:58

Instrument :

MSVOA_L

ClientSampleId :

VL0219ABS01

Tot Ion: 91 Resp: 2256923

Ion Ratio Lower Upper

91 100

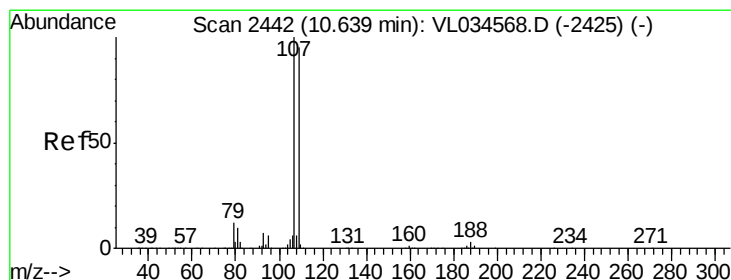
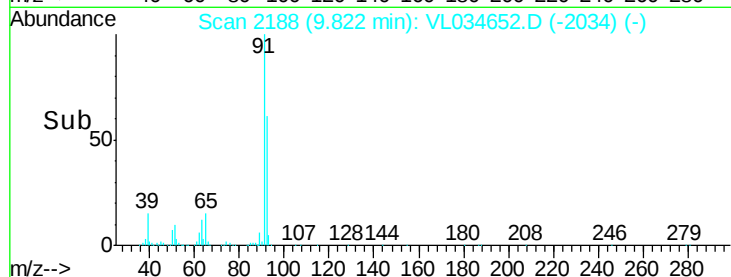
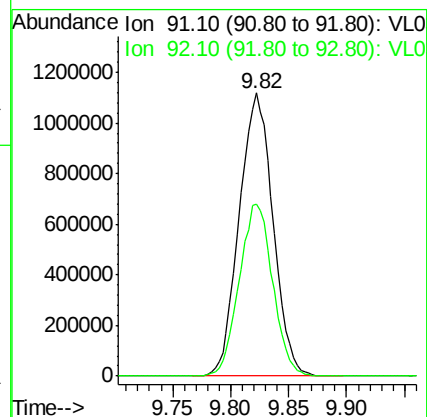
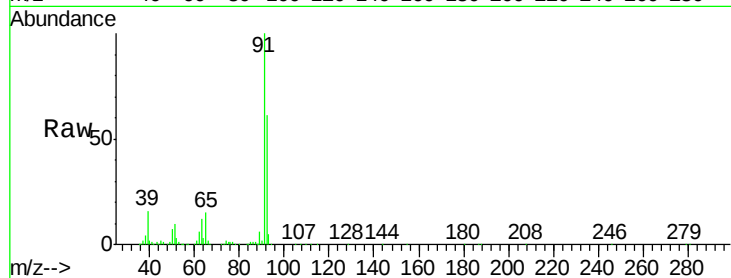
92 60.5 48.2 72.2

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#54

1,2-Dibromoethane

Concen: 11.202 ppbv

RT: 10.63 min Scan# 2440

Delta R.T. -0.01 min

Lab File: VL034652.D

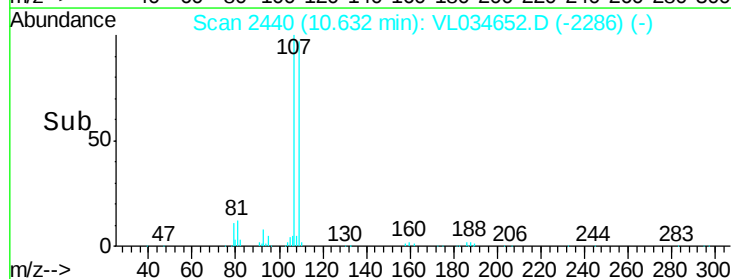
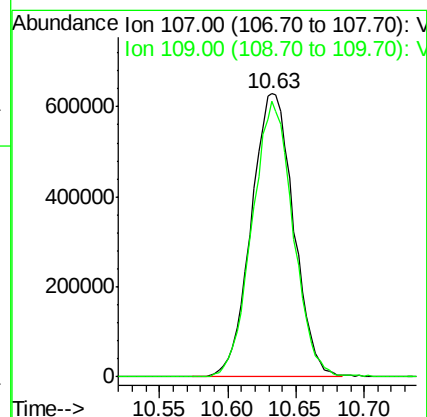
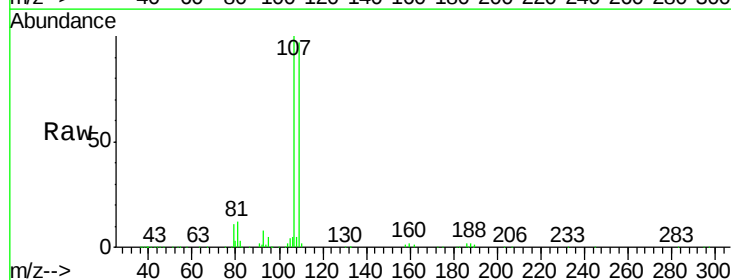
Acq: 19 Feb 2020 18:58

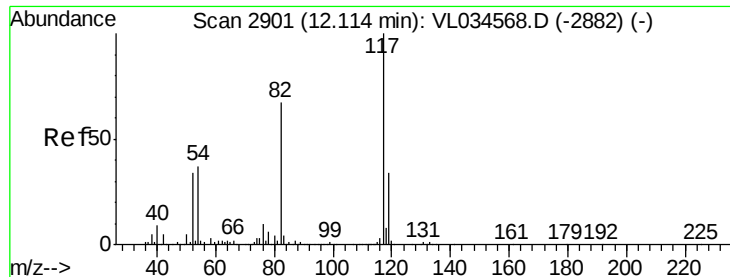
Tgt Ion: 107 Resp: 1350931

Ion Ratio Lower Upper

107 100

109 97.4 75.9 113.9





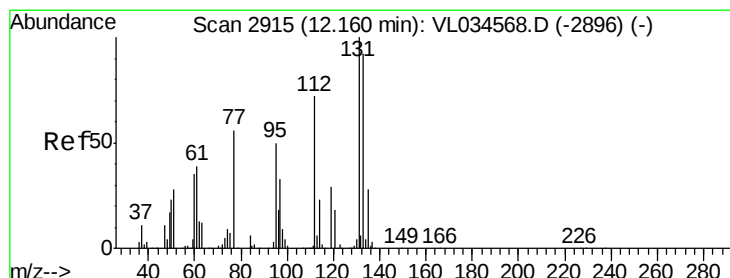
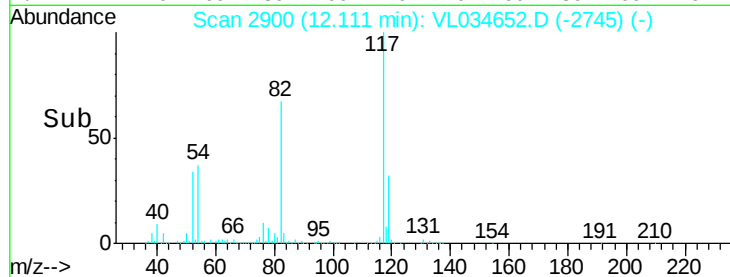
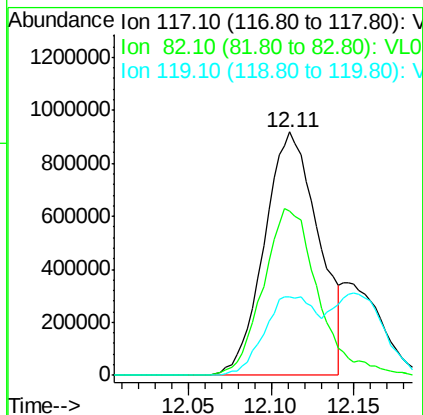
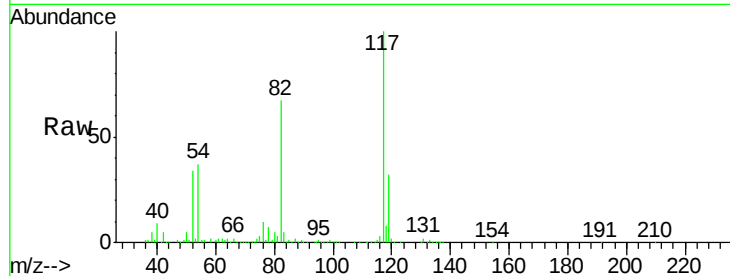
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2900
Delta R.T. -0.00 min
Lab File: VL034652.D
Acq: 19 Feb 2020 18:58

Instrument :
MSVOA_L
ClientSampleId :
VL0219ABS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	69.7	54.2	81.4
119	33.5	26.1	39.1

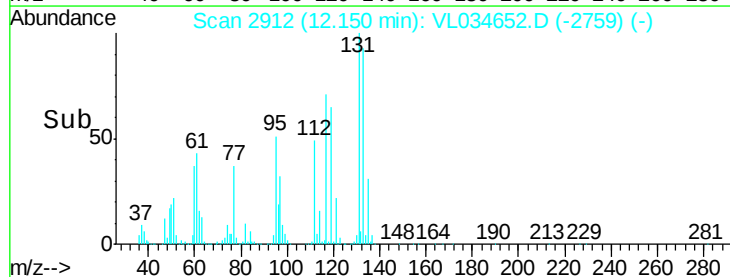
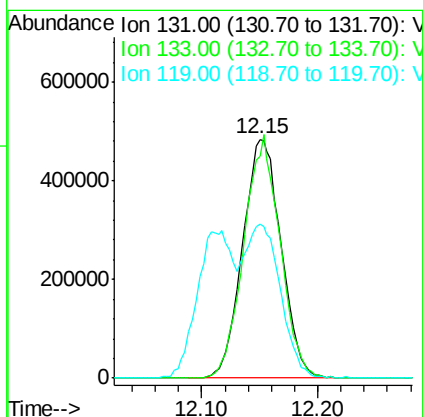
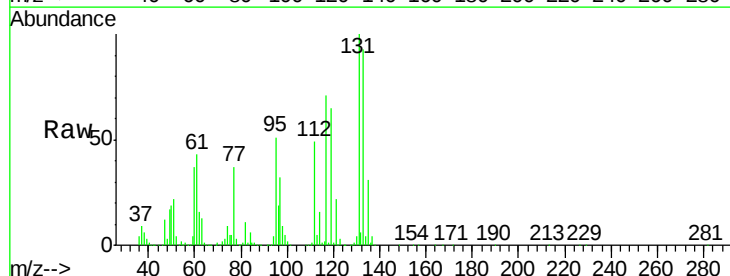
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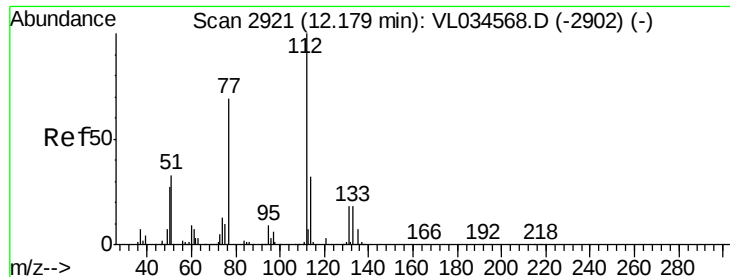
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#56
1,1,1,2-Tetrachloroethane
Concen: 10.800 ppbv
RT: 12.15 min Scan# 2912
Delta R.T. -0.01 min
Lab File: VL034652.D
Acq: 19 Feb 2020 18:58

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.0	75.8	113.8
119	61.8	47.0	70.6





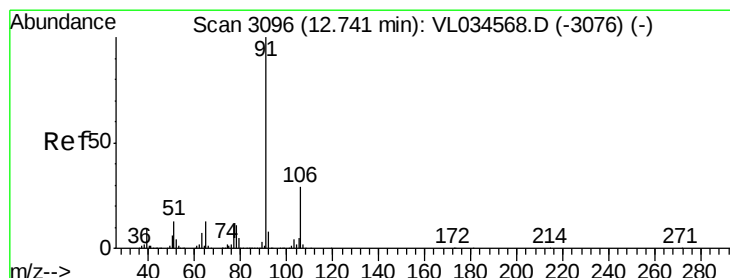
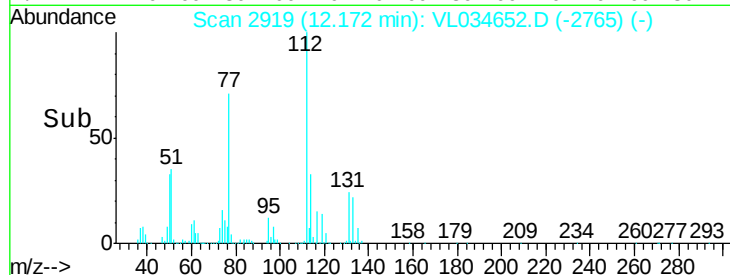
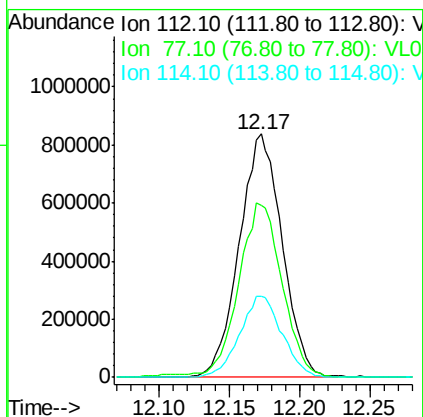
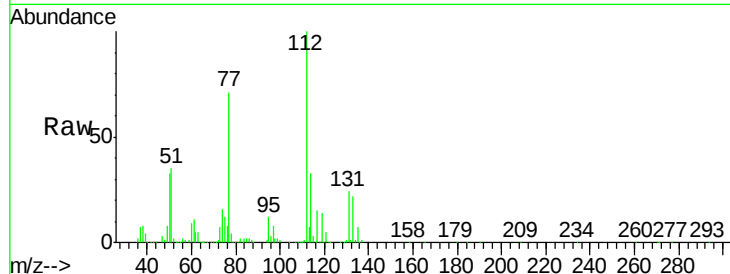
#57
Chlorobenzene
Concen: 10.367 ppbv
RT: 12.17 min Scan# 2919
Delta R.T. -0.01 min
Lab File: VL034652.D
Acq: 19 Feb 2020 18:58

Instrument :
MSVOA_L
ClientSampleId :
VL0219ABS01

Tot Ion: 112 Resp: 1780868
Ion Ratio Lower Upper
112 100
77 70.1 56.5 84.7
114 33.0 29.2 35.6

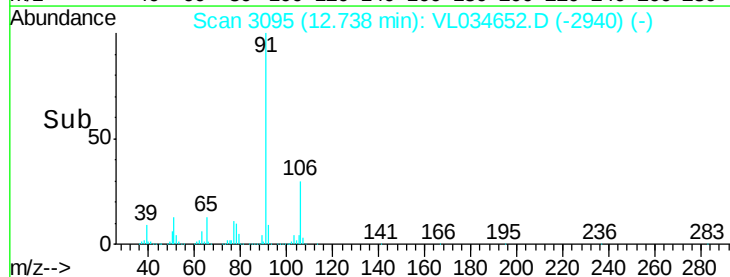
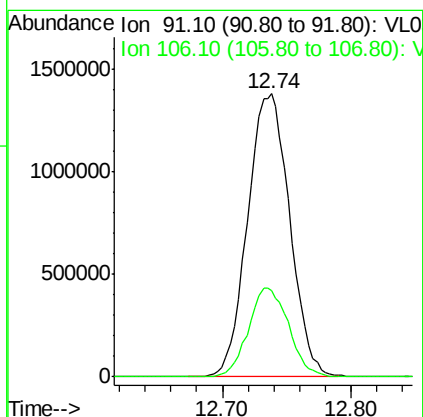
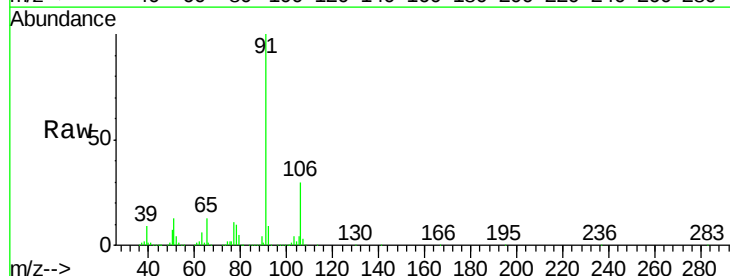
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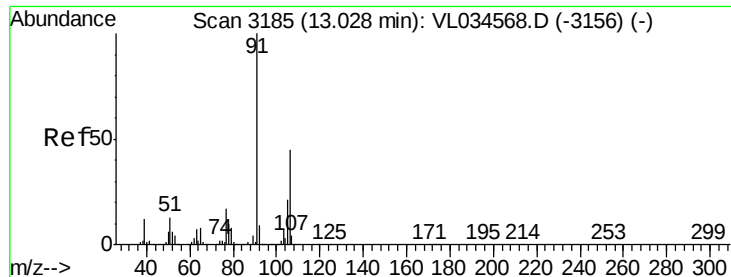
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#58
Ethyl Benzene
Concen: 11.191 ppbv
RT: 12.74 min Scan# 3095
Delta R.T. -0.00 min
Lab File: VL034652.D
Acq: 19 Feb 2020 18:58

Tgt Ion: 91 Resp: 3126313
Ion Ratio Lower Upper
91 100
106 30.3 23.3 34.9





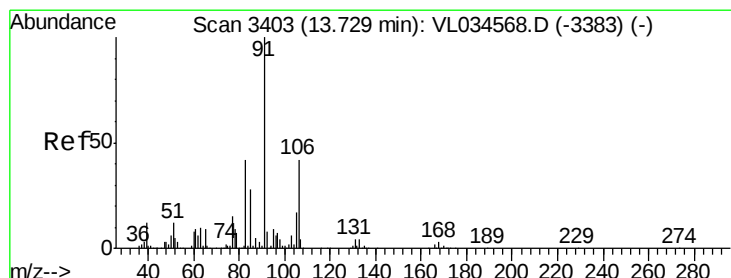
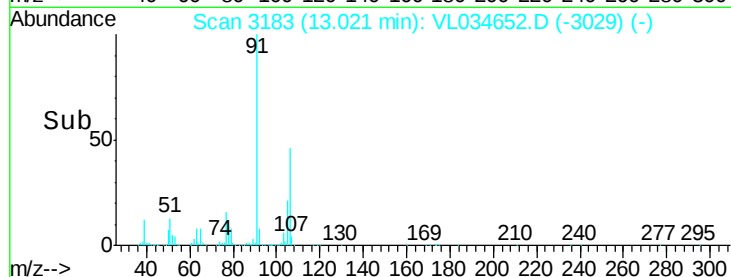
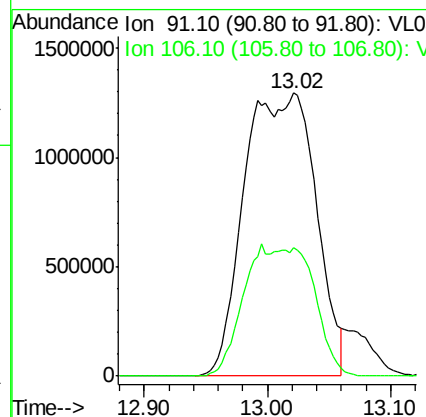
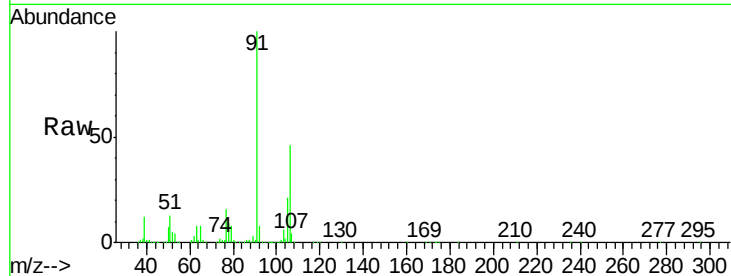
#59
m/p-Xylene
Concen: 21.087 ppbv m
RT: 13.02 min Scan# 3183
Delta R.T. -0.01 min
Lab File: VL034652.D
Acq: 19 Feb 2020 18:58

Instrument :
MSVOA_L
ClientSampled :
VL0219ABS01

Tot Ion: 91 Resp: 5207422
Ion Ratio Lower Upper
91 100
106 0.0 35.3 52.9#

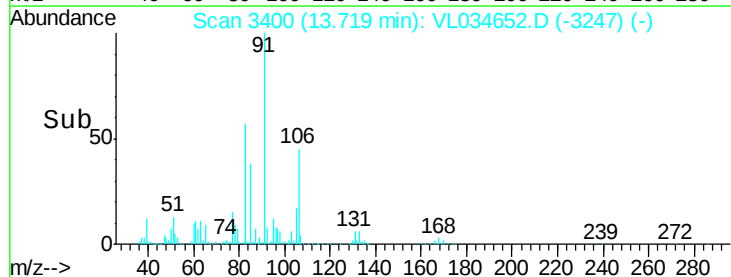
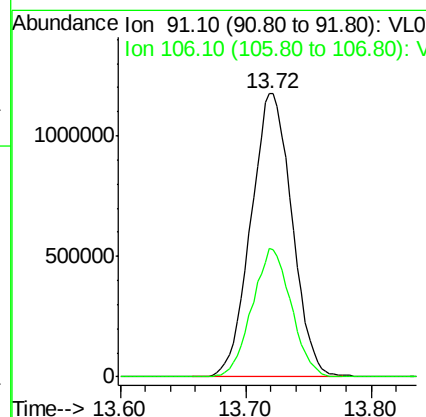
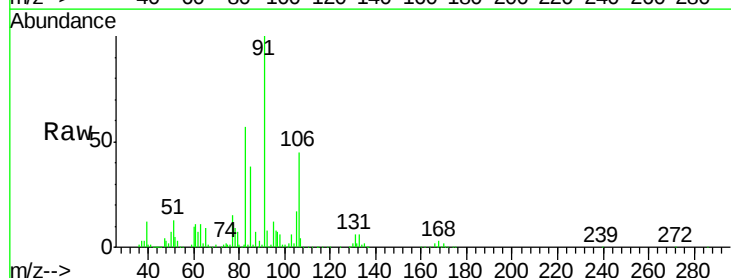
Manual Integrations
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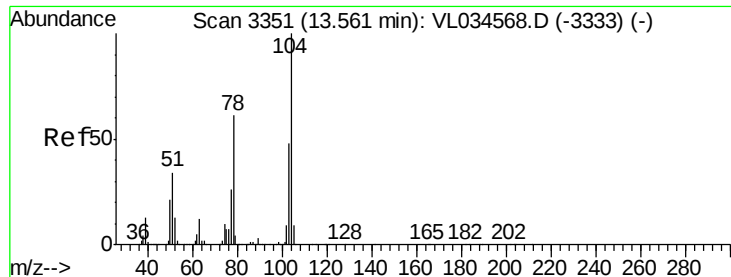
MMDadoda
2/21/2020 3:24:06 PM



#60
o-Xylene
Concen: 10.797 ppbv
RT: 13.72 min Scan# 3400
Delta R.T. -0.01 min
Lab File: VL034652.D
Acq: 19 Feb 2020 18:58

Tgt Ion: 91 Resp: 2677763
Ion Ratio Lower Upper
91 100
106 43.2 21.6 65.0





#61

Stvrene

Concen: 11.228 ppbv

RT: 13.56 min Scan# 3350

Delta R.T. -0.00 min

Lab File: VL034652.D

Acq: 19 Feb 2020 18:58

Instrument :

MSVOA_L

ClientSampleId :

VL0219ABS01

Tot Ion:104 Resp: 1856680

Ion Ratio Lower Upper

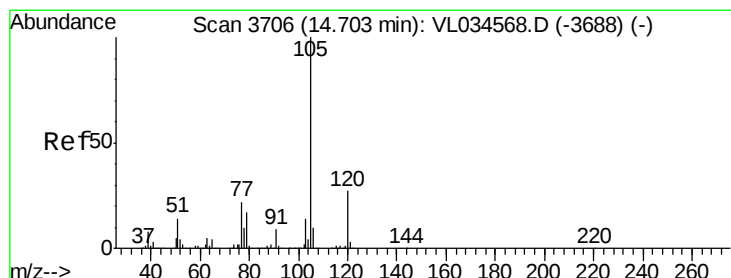
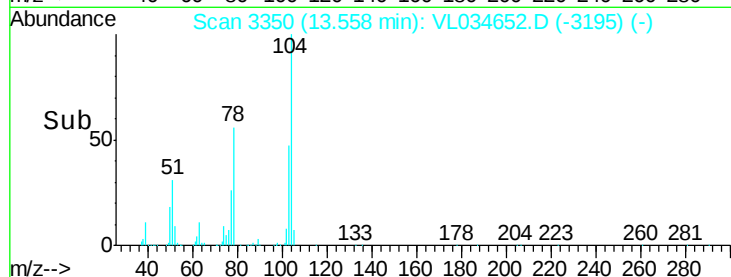
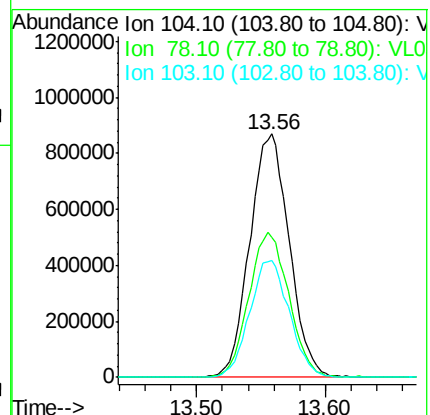
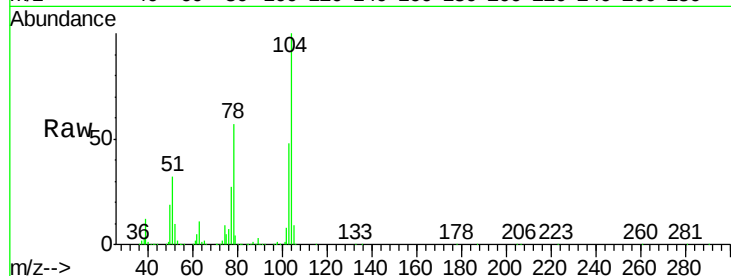
104 100

78 60.4 47.0 70.6

103 48.6 38.5 57.7

Manual Integrations
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MMDadoda
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#62

Isopropylbenzene

Concen: 10.875 ppbv

RT: 14.70 min Scan# 3705

Delta R.T. -0.00 min

Lab File: VL034652.D

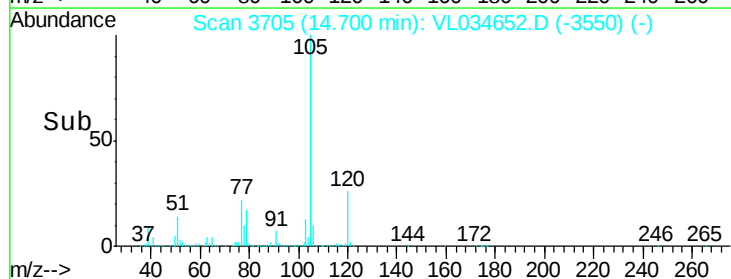
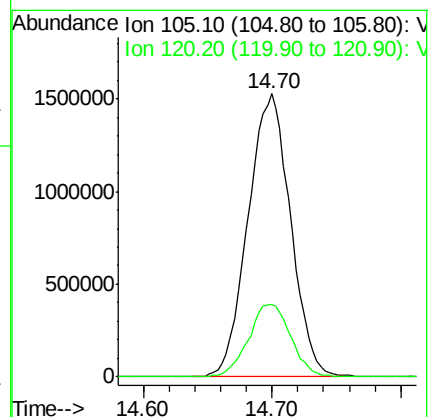
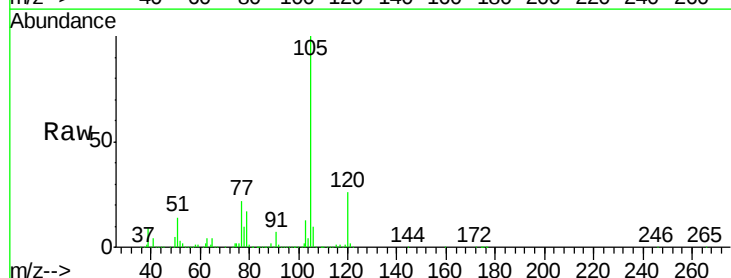
Acq: 19 Feb 2020 18:58

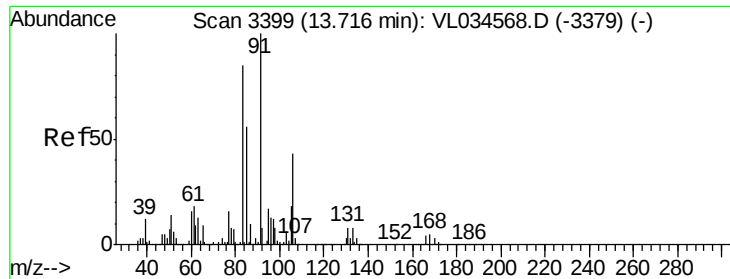
Tgt Ion:105 Resp: 3495130

Ion Ratio Lower Upper

105 100

120 25.7 20.7 31.1





#63

1,1,2,2-Tetrachloroethane

Concen: 10.196 ppbv

RT: 13.71 min Scan# 3397

Delta R.T. -0.01 min

Lab File: VL034652.D

Acq: 19 Feb 2020 18:58

Instrument :

MSVOA_L

ClientSampleId :

VL0219ABS01

Tot Ion: 83 Resp: 1955687

Ion Ratio Lower Upper

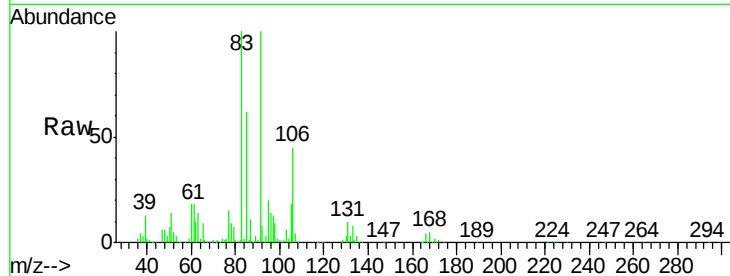
83 100

131 9.9 4.9 14.6

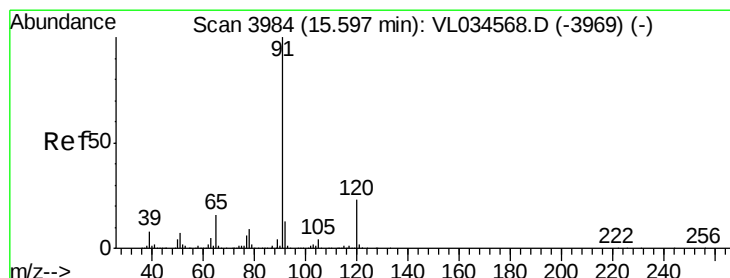
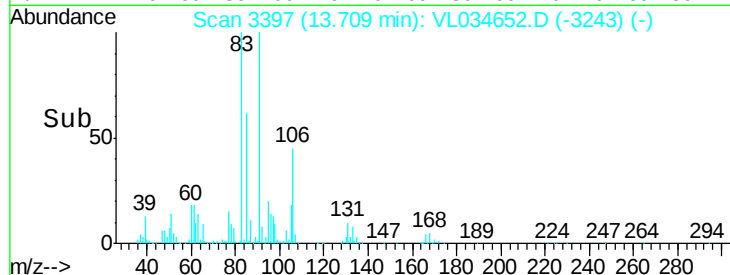
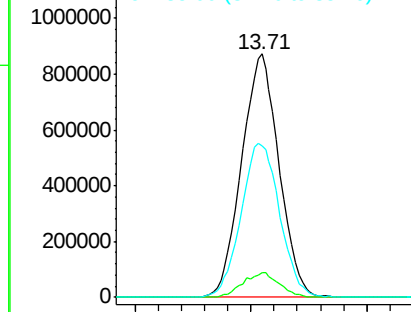
85 65.4 32.6 98.0

Manual Integrations
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Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 11.208 ppbv

RT: 15.60 min Scan# 3984

Delta R.T. 0.00 min

Lab File: VL034652.D

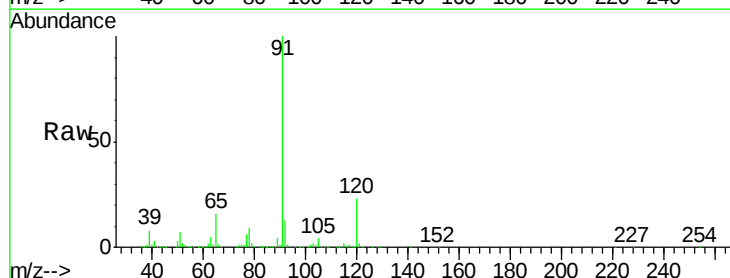
Acq: 19 Feb 2020 18:58

Tgt Ion:120 Resp: 926734

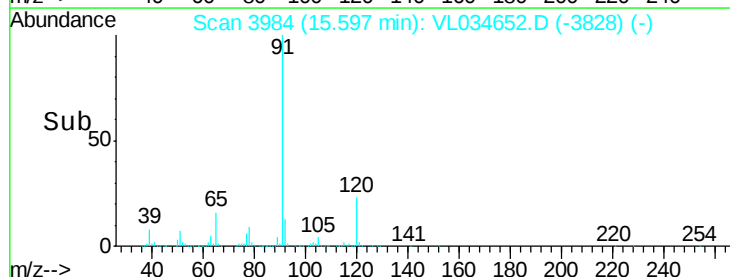
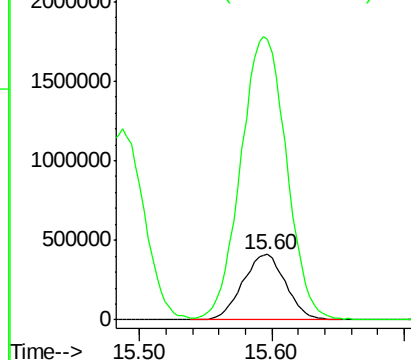
Ion Ratio Lower Upper

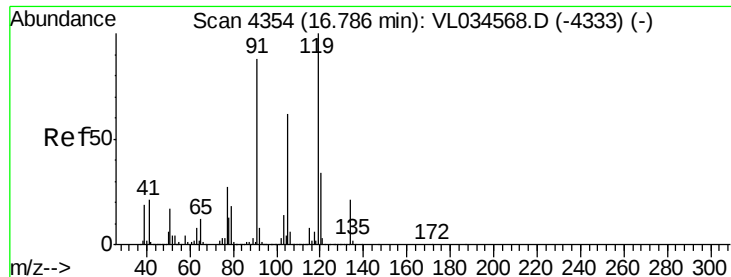
120 100

91 460.3 365.3 547.9



Abundance Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 11.231 ppbv

RT: 16.78 min Scan# 4352

Delta R.T. -0.01 min

Lab File: VL034652.D

Acq: 19 Feb 2020 18:58

Instrument :

MSVOA_L

ClientSampleId :

VL0219ABS01

Tot Ion:119 Resp: 3270119

Ion Ratio Lower Upper

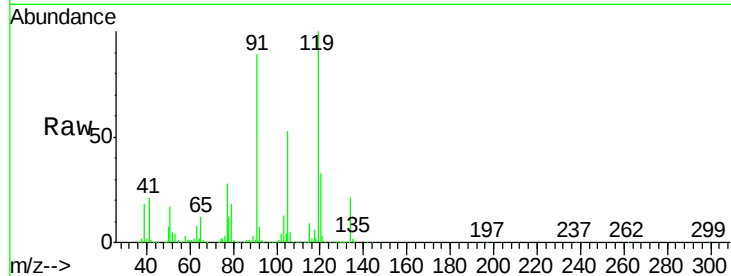
119 100

91 90.3 72.2 108.4

134 19.5 15.9 23.9

Manual Integrations
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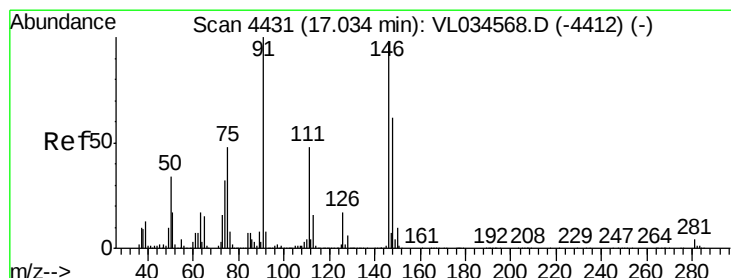
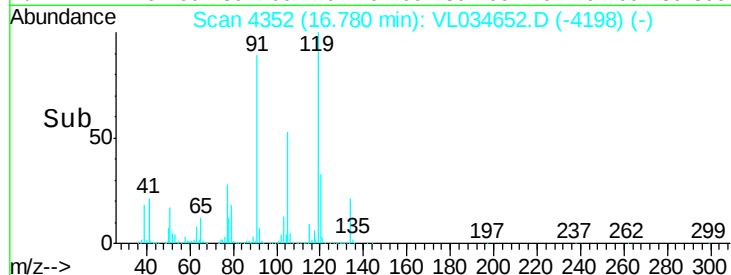
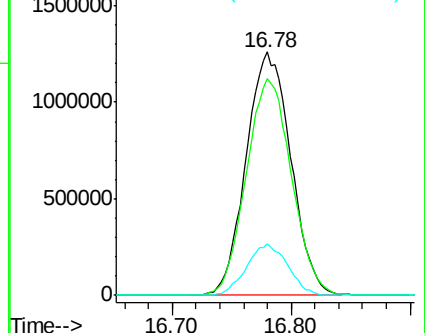
MMDadoda
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 12.833 ppbv

RT: 17.03 min Scan# 4429

Delta R.T. -0.01 min

Lab File: VL034652.D

Acq: 19 Feb 2020 18:58

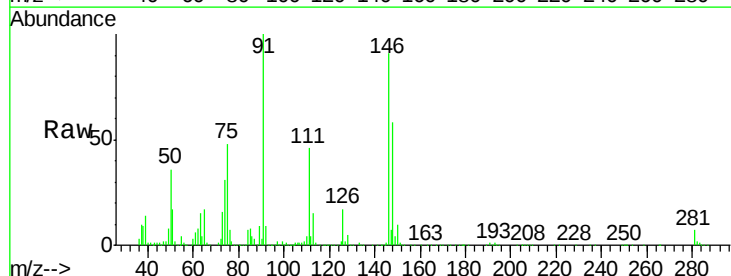
Tgt Ion: 91 Resp: 1566724

Ion Ratio Lower Upper

91 100

126 16.4 13.4 20.0

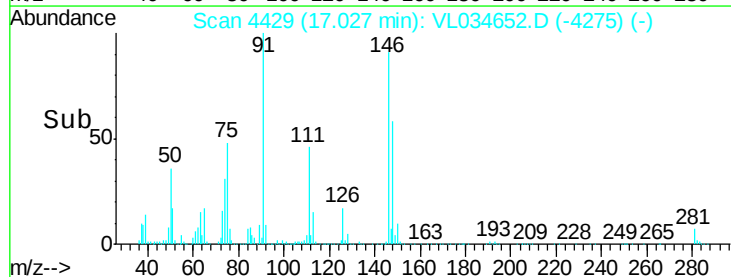
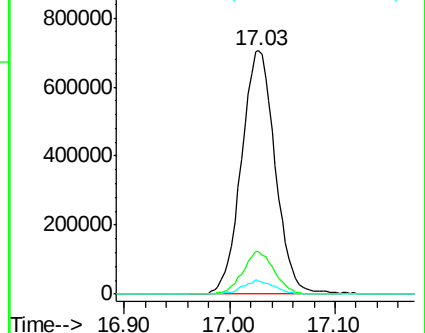
128 5.4 4.3 6.5

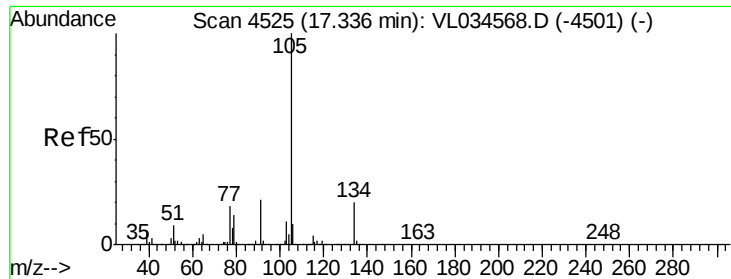


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





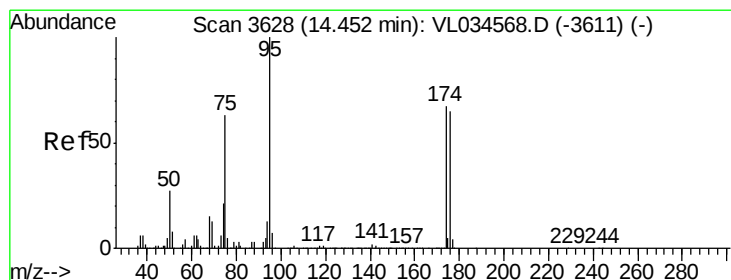
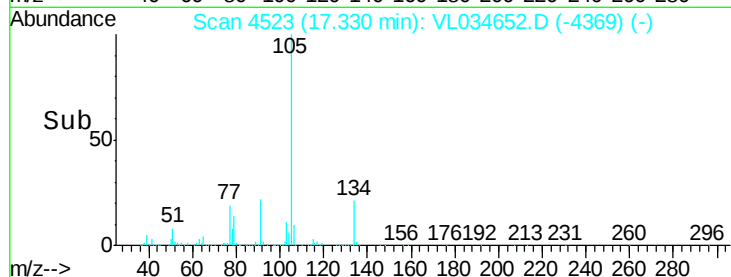
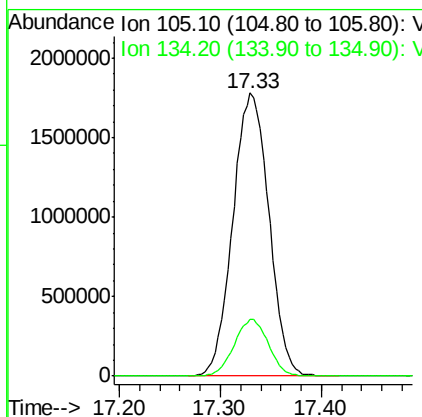
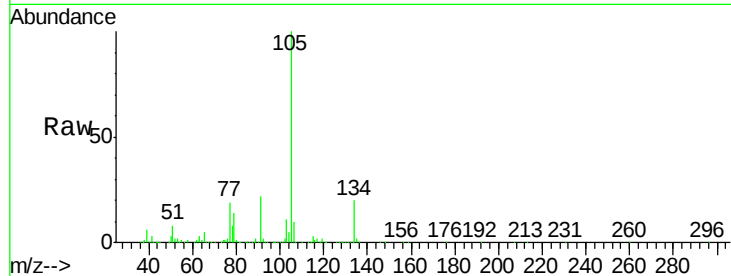
#67
 sec-Butylbenzene
 Concen: 11.019 ppbv
 RT: 17.33 min Scan# 4523
 Delta R.T. -0.01 min
 Lab File: VL034652.D
 Acq: 19 Feb 2020 18:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0219ABS01

Tot Ion: 105 Resp: 4409113
 Ion Ratio Lower Upper
 105 100
 134 19.1 15.5 23.3

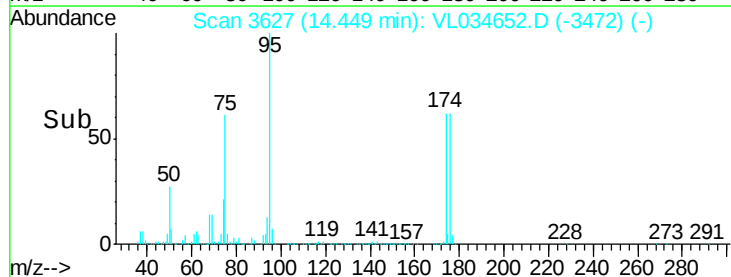
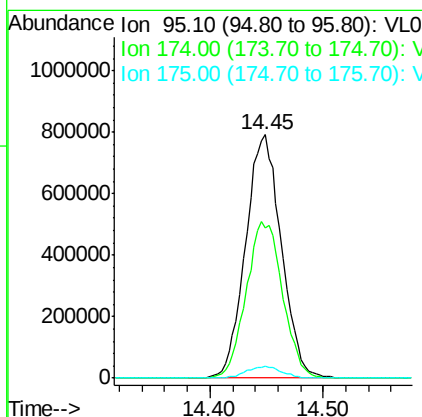
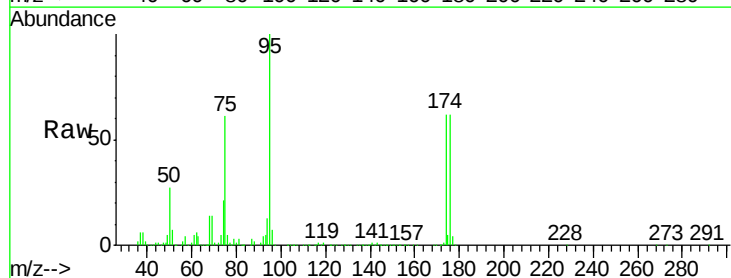
Manual Integrations
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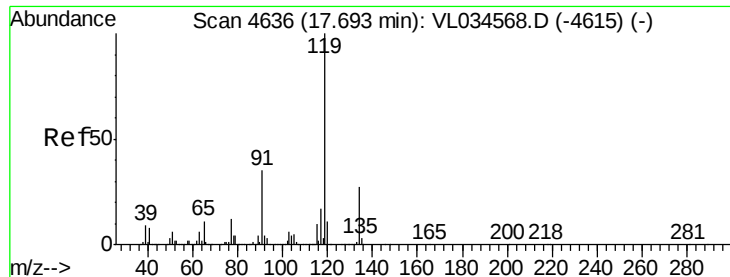
MMDadoda
 2/21/2020 3:24:06 PM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.846 ppbv
 RT: 14.45 min Scan# 3627
 Delta R.T. -0.00 min
 Lab File: VL034652.D
 Acq: 19 Feb 2020 18:58

Tgt Ion: 95 Resp: 1737233
 Ion Ratio Lower Upper
 95 100
 174 65.6 52.3 78.5
 175 4.8 3.8 5.6





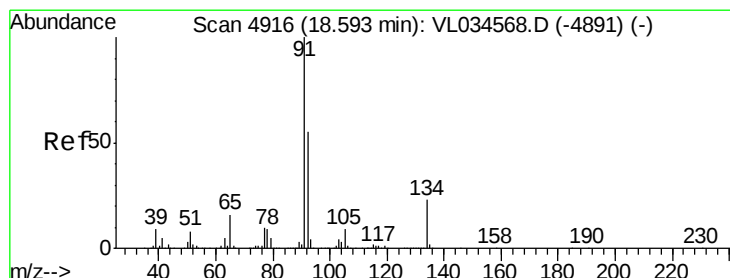
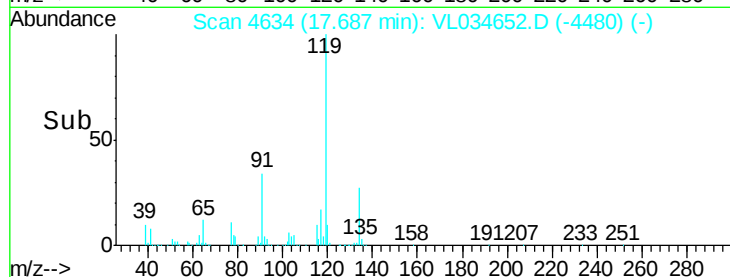
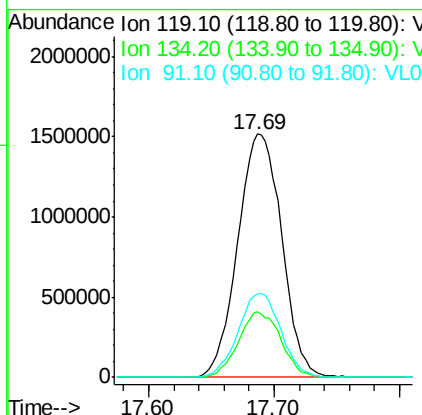
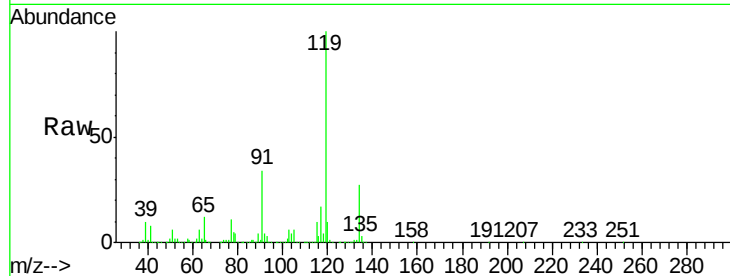
#69
 p-Isopropyltoluene
 Concen: 11.320 ppbv
 RT: 17.69 min Scan# 4634
 Delta R.T. -0.01 min
 Lab File: VL034652.D
 Acq: 19 Feb 2020 18:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0219ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.1	20.7	31.1
91	33.8	26.9	40.3

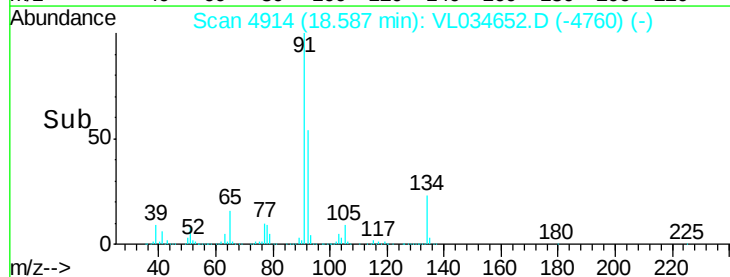
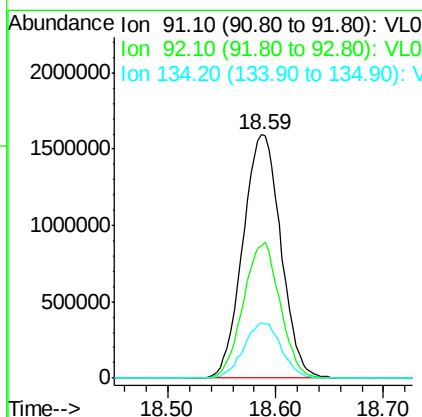
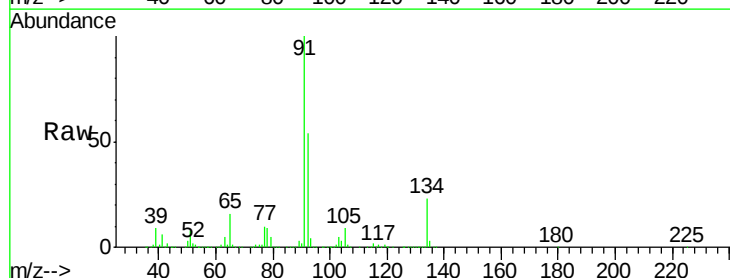
Manual Integrations
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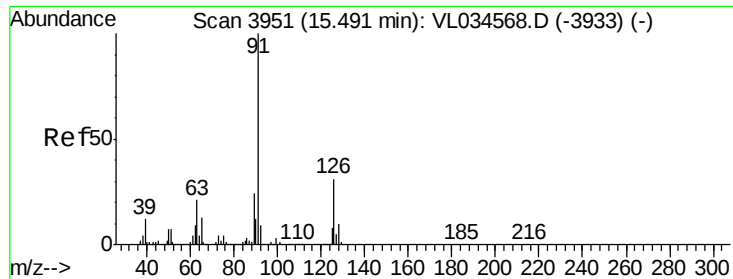
MMDadoda
 2/21/2020 3:24:06 PM



#70
 n-Butylbenzene
 Concen: 11.300 ppbv
 RT: 18.59 min Scan# 4914
 Delta R.T. -0.01 min
 Lab File: VL034652.D
 Acq: 19 Feb 2020 18:58

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.9	43.6	65.4
134	22.4	18.2	27.4





#71

2-Chlorotoluene

Concen: 11.305 ppbv

RT: 15.49 min Scan# 3950

Delta R.T. -0.00 min

Lab File: VL034652.D

Acq: 19 Feb 2020 18:58

Instrument :

MSVOA_L

ClientSampleId :

VL0219ABS01

Tot Ion: 91 Resp: 2757802

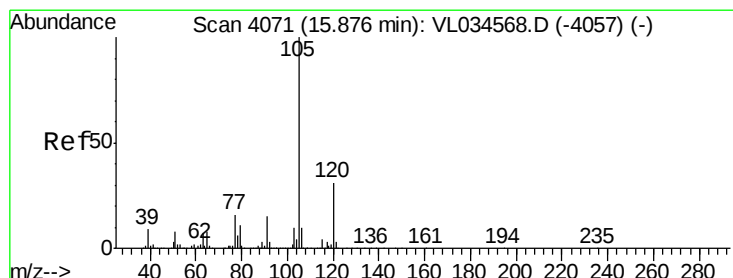
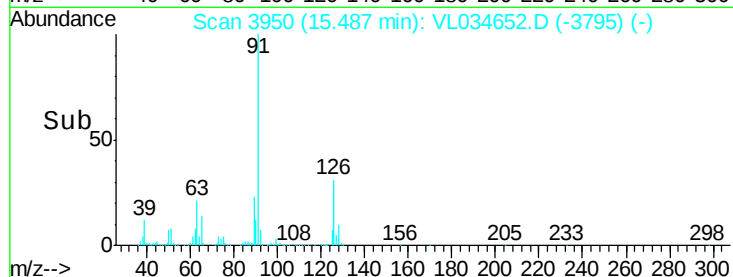
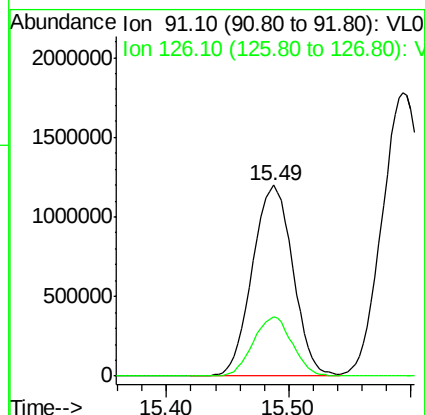
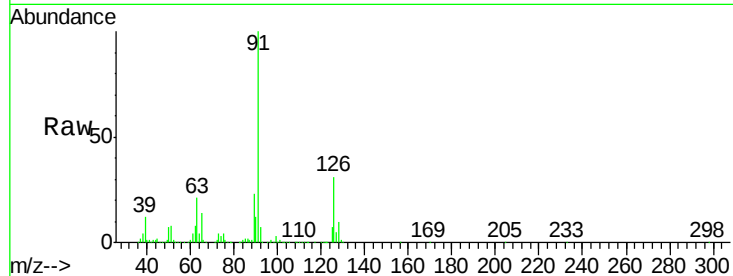
Ion Ratio Lower Upper

91 100

126 30.0 12.0 47.8

Manual Integrations
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#72

4-Ethyltoluene

Concen: 11.066 ppbv

RT: 15.87 min Scan# 4070

Delta R.T. -0.00 min

Lab File: VL034652.D

Acq: 19 Feb 2020 18:58

Tgt Ion:105 Resp: 3014750

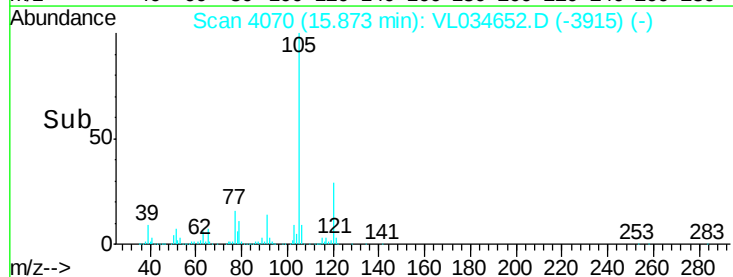
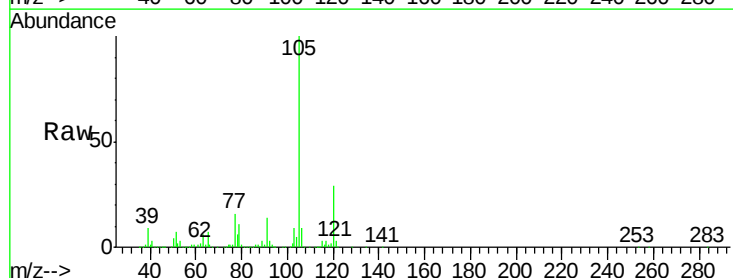
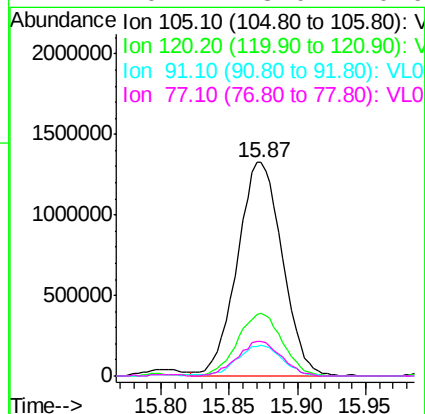
Ion Ratio Lower Upper

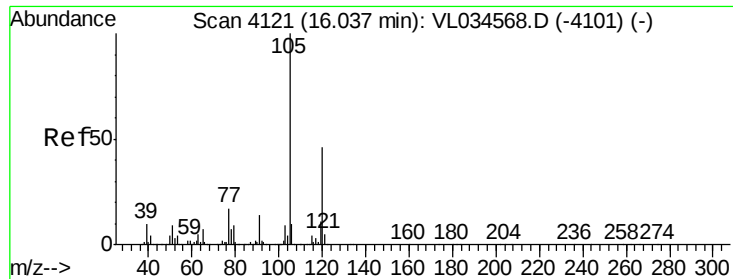
105 100

120 29.6 23.8 35.6

91 14.5 11.8 17.8

77 16.4 13.0 19.6





#73

1,3,5-Trimethylbenzene

Concen: 11.051 ppbv

RT: 16.03 min Scan# 4118

Delta R.T. -0.01 min

Lab File: VL034652.D

Acq: 19 Feb 2020 18:58

Instrument :

MSVOA_L

ClientSampleId :

VL0219ABS01

Tot Ion:105 Resp: 2941884

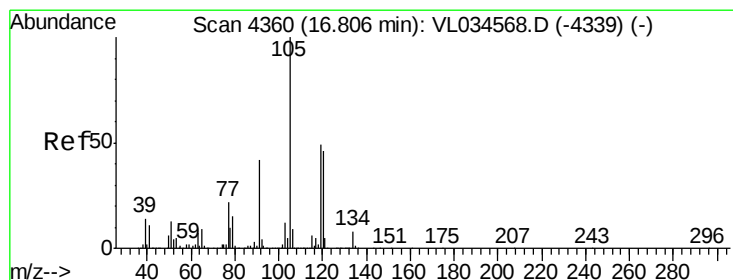
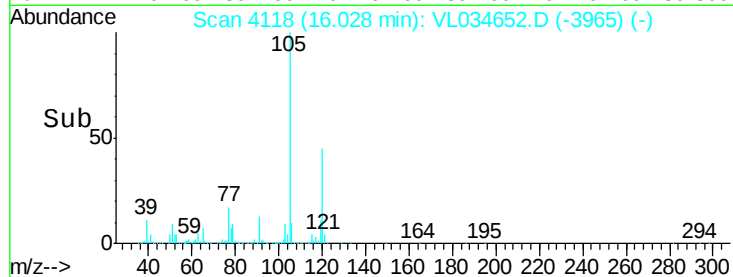
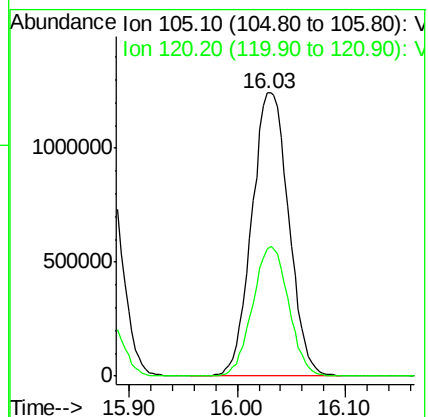
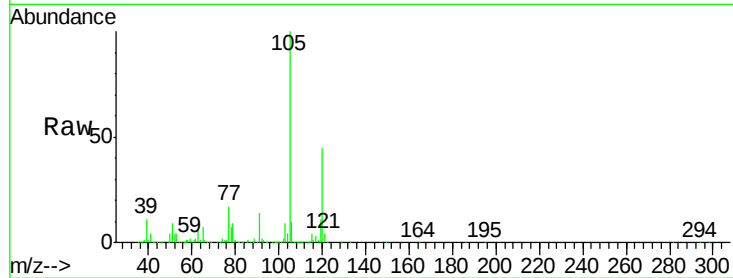
Ion Ratio Lower Upper

105 100

120 44.9 37.0 55.6

Manual Integrations
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2/21/2020 3:24:06 PM



#74

1,2,4-Trimethylbenzene

Concen: 10.565 ppbv

RT: 16.80 min Scan# 4358

Delta R.T. -0.01 min

Lab File: VL034652.D

Acq: 19 Feb 2020 18:58

Tgt Ion:105 Resp: 3113313

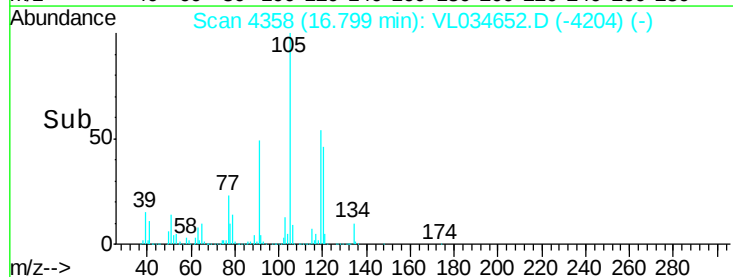
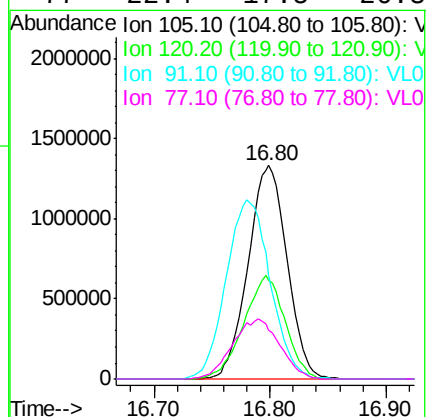
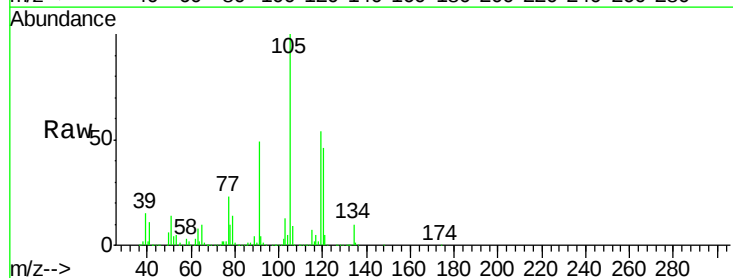
Ion Ratio Lower Upper

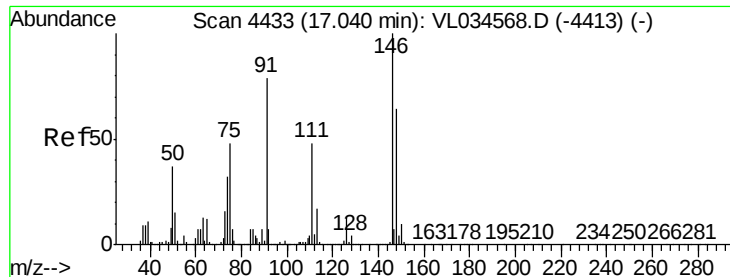
105 100

120 45.8 37.1 55.7

91 48.6 34.3 51.5

77 22.4 17.5 26.3





#75

1,3-Dichlorobenzene

Concen: 10.202 ppbv

RT: 17.04 min Scan# 4432

Delta R.T. -0.00 min

Lab File: VL034652.D

Acq: 19 Feb 2020 18:58

Instrument :

MSVOA_L

ClientSampled :

VL0219ABS01

Tot Ion:146 Resp: 1731149

Ion Ratio Lower Upper

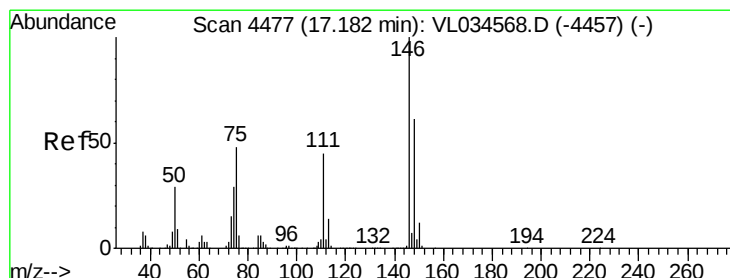
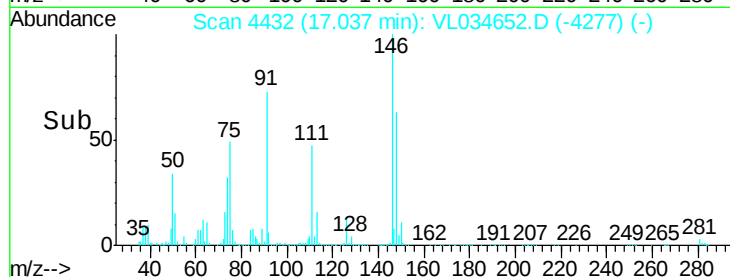
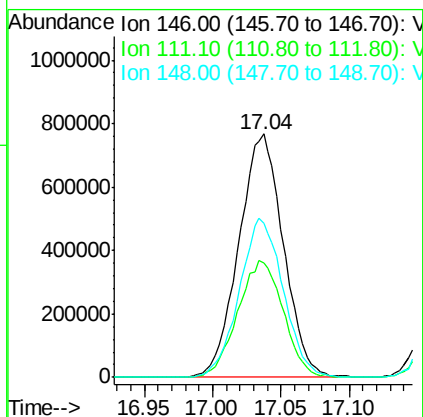
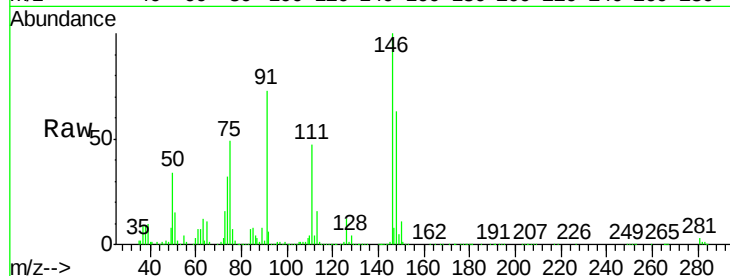
146 100

111 49.3 24.7 74.1

148 65.0 32.8 98.4

Manual Integrations
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2/21/2020 3:24:06 PM



#76

1,4-Dichlorobenzene

Concen: 10.171 ppbv

RT: 17.18 min Scan# 4476

Delta R.T. -0.00 min

Lab File: VL034652.D

Acq: 19 Feb 2020 18:58

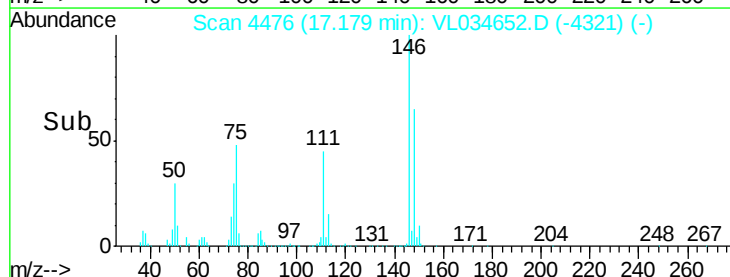
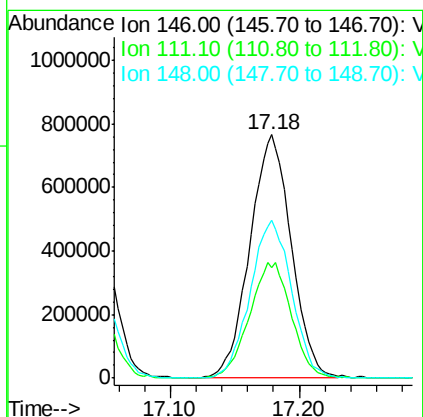
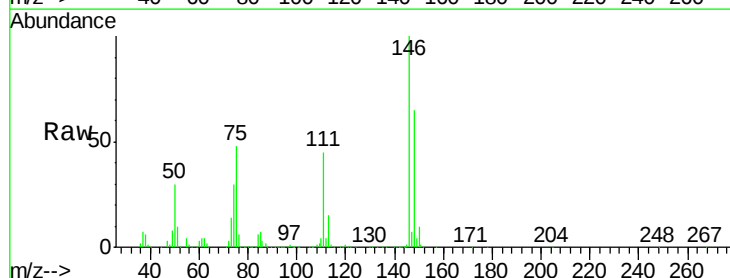
Tgt Ion:146 Resp: 1701004

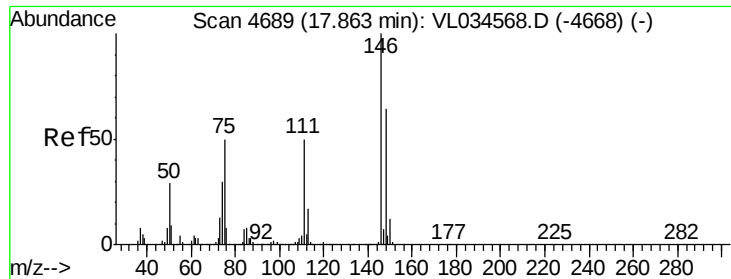
Ion Ratio Lower Upper

146 100

111 48.5 24.1 72.2

148 65.3 32.6 98.0





#77

1,2-Dichlorobenzene

Concen: 10.331 ppbv

RT: 17.86 min Scan# 4687

Delta R.T. -0.01 min

Lab File: VL034652.D

Acq: 19 Feb 2020 18:58

Instrument :

MSVOA_L

ClientSampleId :

VL0219ABS01

Tot Ion:146 Resp: 1683930

Ion Ratio Lower Upper

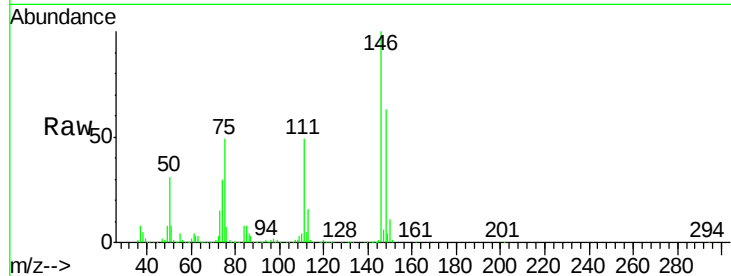
146 100

111 51.2 25.1 75.3

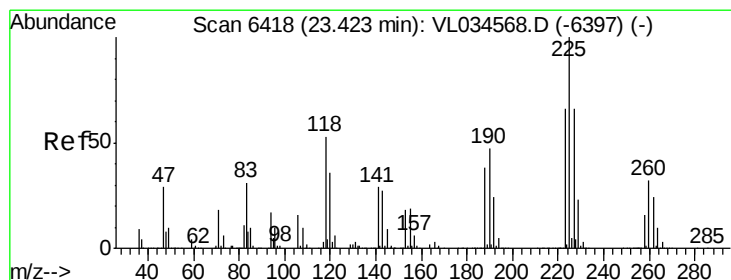
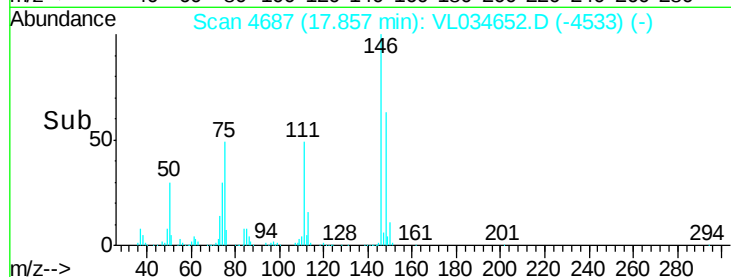
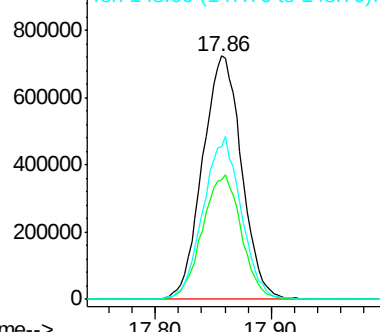
148 65.2 32.2 96.6

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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 9.423 ppbv

RT: 23.42 min Scan# 6416

Delta R.T. -0.01 min

Lab File: VL034652.D

Acq: 19 Feb 2020 18:58

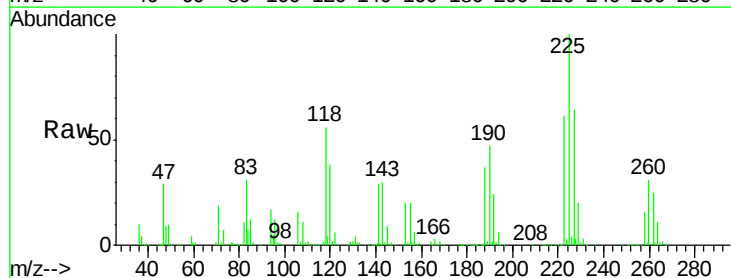
Tgt Ion:225 Resp: 1468820

Ion Ratio Lower Upper

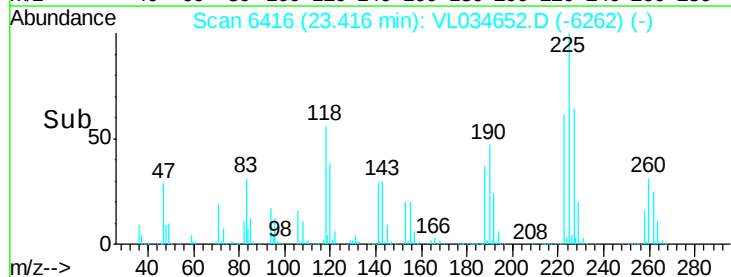
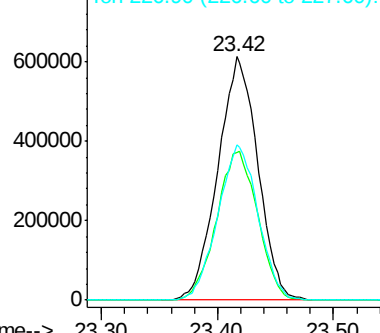
225 100

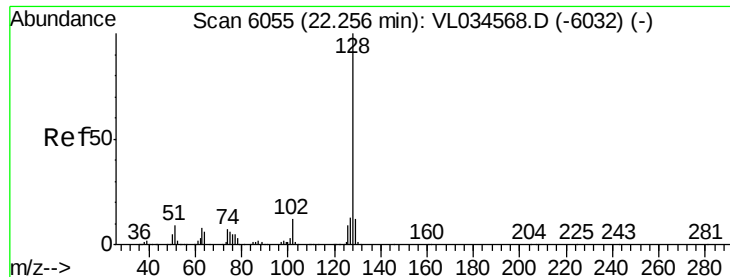
223 62.9 50.9 76.3

227 64.1 51.6 77.4



Abundance Ion 224.90 (224.60 to 225.60): V
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V





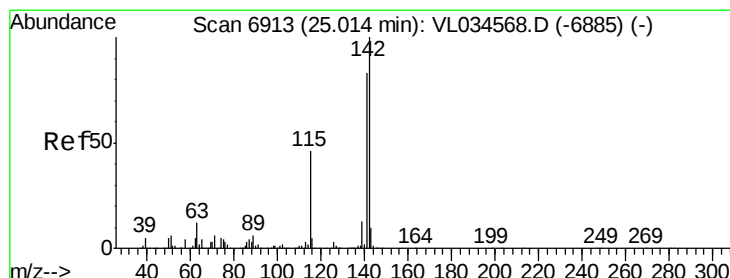
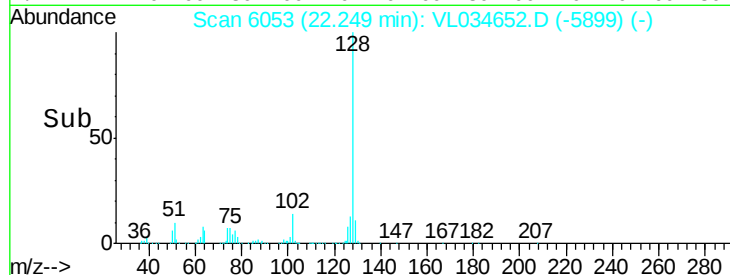
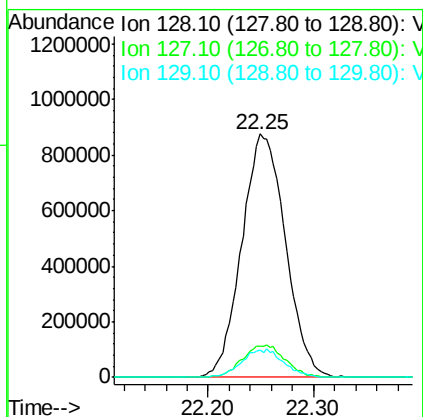
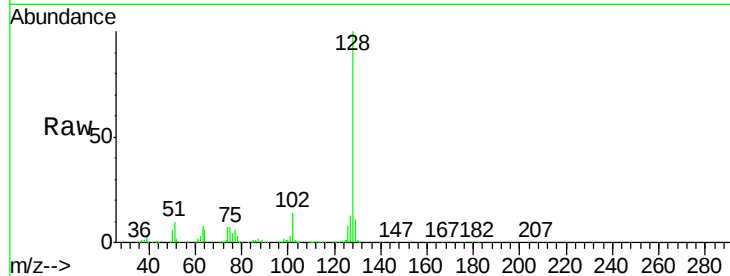
#79
Naphthalene
Concen: 10.846 ppbv
RT: 22.25 min Scan# 6053
Delta R.T. -0.01 min
Lab File: VL034652.D
Acq: 19 Feb 2020 18:58

Instrument :
MSVOA_L
ClientSampleId :
VL0219ABS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.1	15.1
129	11.2	9.3	13.9

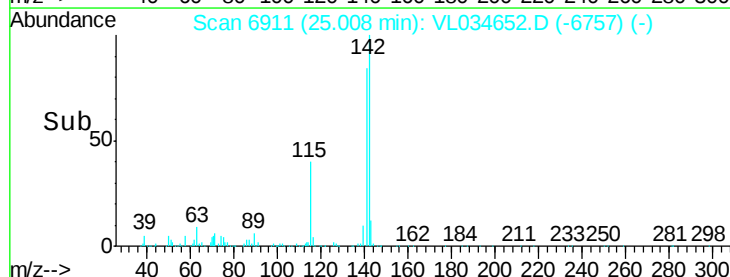
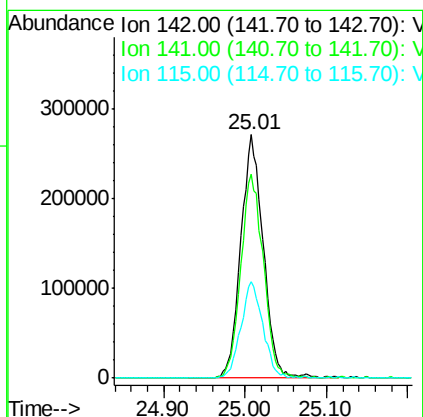
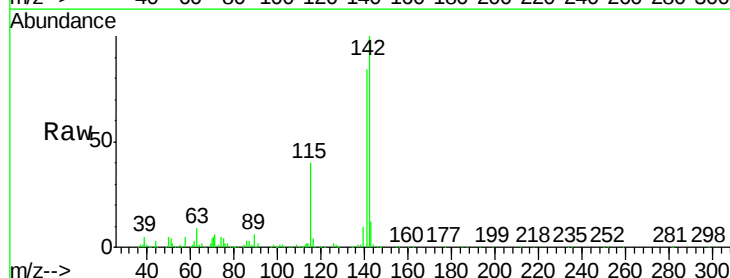
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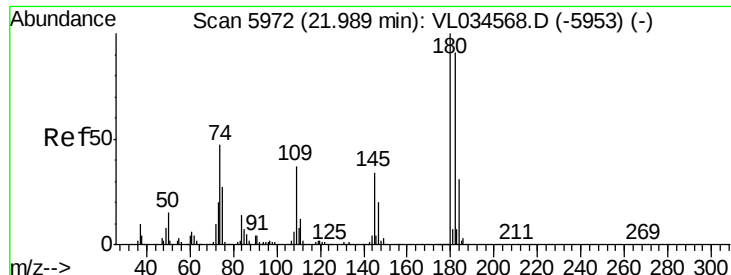
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#80
Naphthalene, 2-methyl-
Concen: 5.765 ppbv
RT: 25.01 min Scan# 6911
Delta R.T. -0.01 min
Lab File: VL034652.D
Acq: 19 Feb 2020 18:58

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.6	67.0	100.4
115	38.8	39.5	59.3#





#81
 1,2,4-Trichlorobenzene
 Concen: 10.226 ppbv
 RT: 21.98 min Scan# 5970
 Delta R.T. -0.01 min
 Lab File: VL034652.D
 Acq: 19 Feb 2020 18:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0219ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.6	77.8	116.6
184	30.5	25.4	38.0

Manual Integrations
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