

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022720\
 Data File : VL034704.D
 Acq On : 27 Feb 2020 10:21
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 2/28/2020 12:32:26 PM

Quant Time: Feb 28 01:18:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb 28 2020
 QLast Update : Fri Feb 28 01:15:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1008643	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.21	114	2103984	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.15	117	2303778m	10.00	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.49	95	1819618	9.63	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.30%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	1265454	7.953	ppbv 92
3) Chlorodifluoromethane	2.97	51	1056353	9.705	ppbv 99
4) Chloromethane	3.12	50	580700	9.530	ppbv 97
5) Vinyl Chloride	3.24	62	584211	9.773	ppbv 99
6) Bromomethane	3.46	94	349875	9.990	ppbv 99
7) Chloroethane	3.55	64	212678	9.584	ppbv 94
8) Dichlorotetrafluoroethane	3.17	85	1310891	9.314	ppbv 100
9) Propene	2.99	41	436581	9.595	ppbv 100
10) Heptane	8.16	43	1205379	10.292	ppbv 99
11) Trichlorofluoromethane	3.94	101	1359068	9.752	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.49	101	938091	9.549	ppbv 100
13) Ethanol	3.60	45	138119	9.609	ppbv 96
14) Bromoethene	3.73	108	405882	9.902	ppbv 99
15) Acetone	3.84	43	1028084	8.945	ppbv 100
16) 1,3-Butadiene	3.31	39	522647	9.823	ppbv 100
17) tert-Butyl alcohol	4.29	59	1070530	12.155	ppbv 100
18) 1,1-Dichloroethene	4.29	96	432144	9.798	ppbv 96
19) Isopropyl Alcohol	3.97	45	809403	11.823	ppbv 99
20) Methylene Chloride	4.35	84	380455	8.900	ppbv 98
21) Allyl Chloride	4.41	41	763677	10.043	ppbv 98
22) trans-1,2-Dichloroethene	4.89	96	427351	9.938	ppbv 97
23) Vinyl Acetate	5.09	43	1676831	10.731	ppbv 98
24) 1,1-Dichloroethane	5.02	63	1222094	9.793	ppbv 99
25) Ethyl Acetate	5.70	43	2029909	9.977	ppbv 100
26) Hexane	5.71	57	917765	9.787	ppbv 99
27) Carbon Disulfide	4.55	76	1110893	10.436	ppbv 98
28) Methyl tert-Butyl Ether	5.04	73	1378236	10.288	ppbv 100
29) Chloroform	5.77	83	1447168	9.686	ppbv 99
30) Cyclohexane	7.16	84	742896	10.222	ppbv 99
31) cis-1,2-Dichloroethene	5.57	61	951588	10.312	ppbv 94
32) 1,1,1-Trichloroethane	6.54	97	1401359	10.044	ppbv 100
34) 2-Butanone	5.26	43	1332908	10.065	ppbv 100
35) Carbon Tetrachloride	7.05	117	1438893	10.212	ppbv 98
36) Benzene	6.93	78	1812643	9.975	ppbv 96
37) 1,2-Dichloroethane	6.33	62	1178160	10.285	ppbv 98
38) Trichloroethene	7.88	130	684957	9.779	ppbv 97
39) 1,2-Dichloropropane	7.65	63	725049	10.029	ppbv 98
40) 1,4-Dioxane	7.87	88	265226	10.788	ppbv # 1
41) Tetrahydrofuran	6.07	42	750942	10.743	ppbv 100
42) Bromodichloromethane	7.83	83	1564008	10.429	ppbv 98
43) Methyl Methacrylate	8.05	69	844071	11.044	ppbv 99

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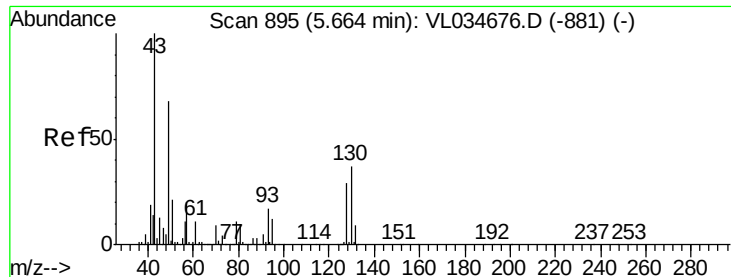
Manual Integrations
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Quant Time: Feb 28 01:18:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb 28 2020
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.91	57	3163997	9.962	ppbv	99
45) t-1,3-Dichloropropene	9.33	75	993901	11.916	ppbv	97
46) cis-1,3-Dichloropropene	8.75	75	1148219	11.479	ppbv	99
47) 1,1,2-Trichloroethane	9.53	97	742389	10.009	ppbv	97
48) Dibromochloromethane	10.36	129	1244423	10.790	ppbv	99
49) Bromoform	13.10	173	1100313	11.003	ppbv	99
50) 4-Methyl-2-Pentanone	8.78	43	2001277	10.669	ppbv	99
51) 2-Hexanone	10.18	43	1649440	11.174	ppbv #	99
52) Tetrachloroethene	11.28	164	625599	9.392	ppbv	96
53) Toluene	9.86	91	2063088	10.674	ppbv	99
54) 1,2-Dibromoethane	10.67	107	1149889	10.392	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.19	131	931009	9.489	ppbv #	93
57) Chlorobenzene	12.21	112	1532842	9.002	ppbv	99
58) Ethyl Benzene	12.77	91	2771230	9.942	ppbv	99
59) m/p-Xylene	13.06	91	4567130m	18.787	ppbv	
60) o-Xylene	13.76	91	2266282	9.394	ppbv	100
61) Styrene	13.59	104	1606868	10.370	ppbv	98
62) Isopropylbenzene	14.73	105	3298593	9.373	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.74	83	1621349	8.623	ppbv	99
64) n-propylbenzene	15.63	120	853175m	9.404	ppbv	
65) tert-Butylbenzene	16.82	119	2866069	9.432	ppbv	99
66) Benzyl Chloride	17.07	91	1311611	11.572	ppbv	99
67) sec-Butylbenzene	17.37	105	4082689	9.337	ppbv	100
69) p-Isopropyltoluene	17.73	119	3413100	9.482	ppbv	100
70) n-Butylbenzene	18.63	91	3682308	9.395	ppbv	100
71) 2-Chlorotoluene	15.53	91	2623491	9.626	ppbv	99
72) 4-Ethyltoluene	15.91	105	2667601	9.935	ppbv	99
73) 1,3,5-Trimethylbenzene	16.07	105	2503314	9.692	ppbv	98
74) 1,2,4-Trimethylbenzene	16.83	105	2578813	9.040	ppbv	99
75) 1,3-Dichlorobenzene	17.07	146	1477856	8.975	ppbv	100
76) 1,4-Dichlorobenzene	17.21	146	1476373	8.962	ppbv	98
77) 1,2-Dichlorobenzene	17.89	146	1420953	8.926	ppbv	98
78) Hexachloro-1,3-Butadiene	23.45	225	1233772	8.901	ppbv	99
79) Naphthalene	22.30	128	2423123	9.652	ppbv	97
80) Naphthalene, 2-methyl-	25.04	142	1097582	14.175	ppbv	95
81) 1,2,4-Trichlorobenzene	22.03	180	1387179	9.258	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.03 min

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Tot Ion: 49 Resp: 1008643

Ion Ratio Lower Upper

49 100

128 43.4 21.6 65.0

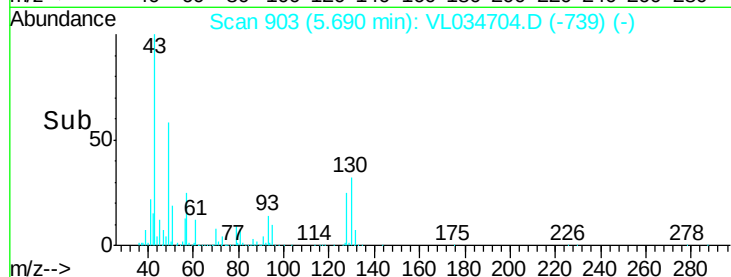
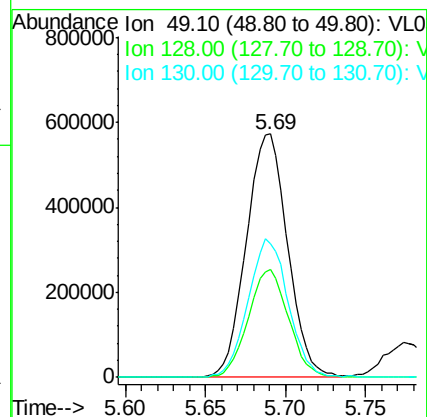
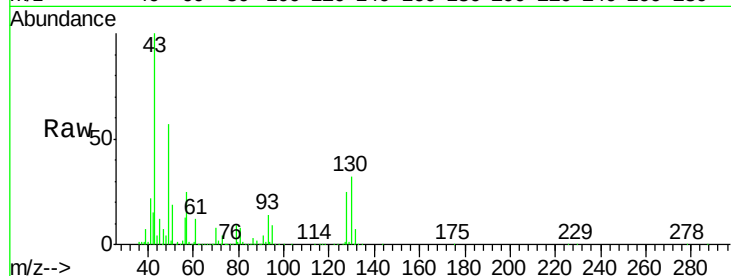
130 55.5 27.7 83.1

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#2

Dichlorodifluoromethane

Concen: 7.953 ppbv

RT: 3.03 min Scan# 75

Delta R.T. 0.02 min

Lab File: VL034704.D

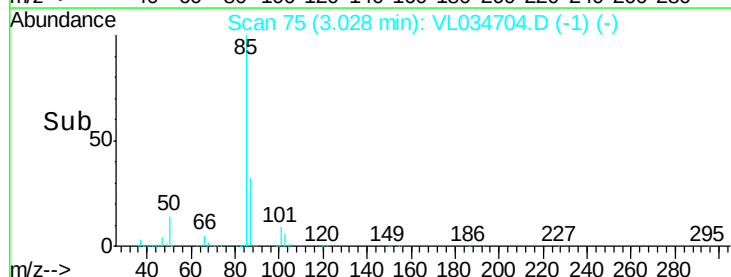
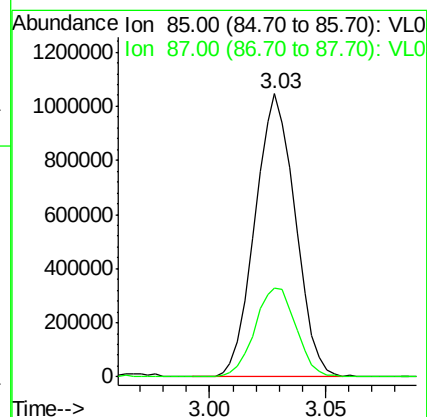
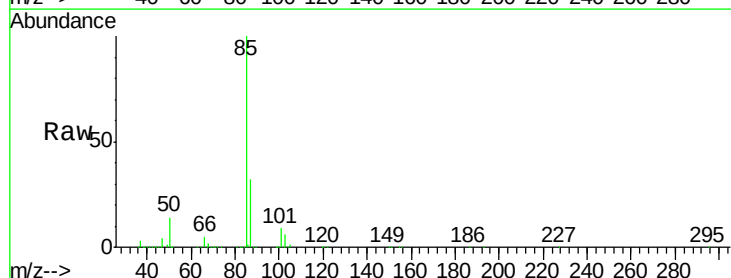
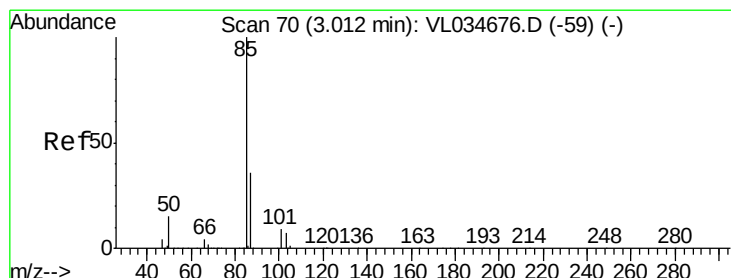
Acq: 27 Feb 2020 10:21

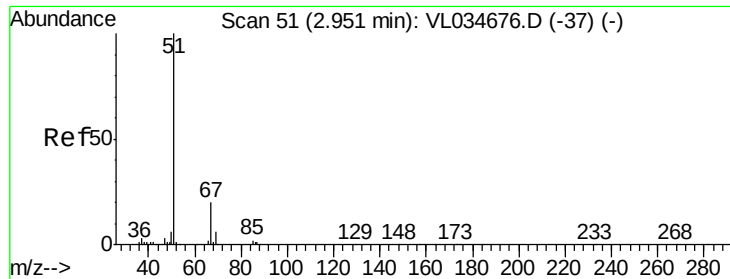
Tgt Ion: 85 Resp: 1265454

Ion Ratio Lower Upper

85 100

87 31.5 29.2 43.8





#3

Chlorodifluoromethane

Concen: 9.705 ppbv

RT: 2.97 min Scan# 56

Delta R.T. 0.02 min

Lab File: VL034704.D

Acq: 27 Feb 2020 10:21

Tot Ion: 51 Resp: 1056353

Ion Ratio Lower Upper

51 100

67 19.8 15.5 23.3

Instrument :

MSVOA_L

ClientSampleId :

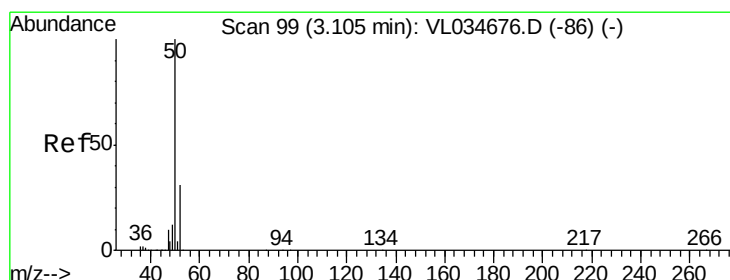
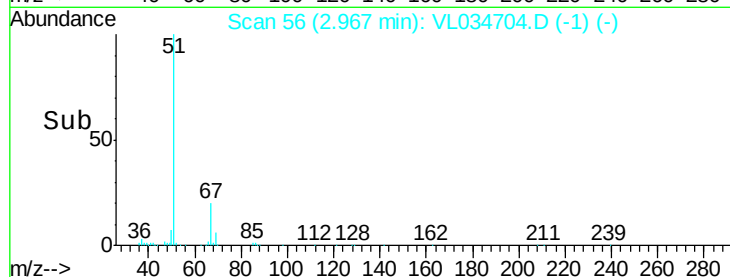
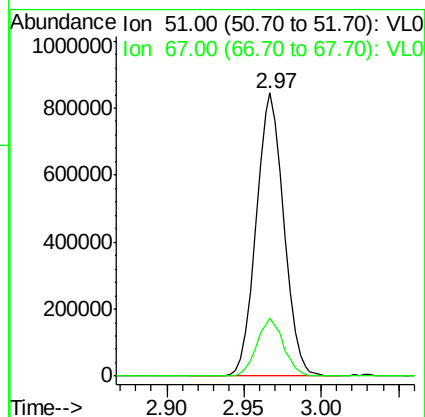
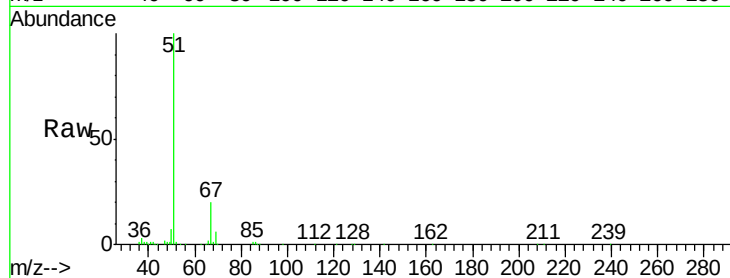
VSTDCCC010

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#4

Chloromethane

Concen: 9.530 ppbv

RT: 3.12 min Scan# 104

Delta R.T. 0.02 min

Lab File: VL034704.D

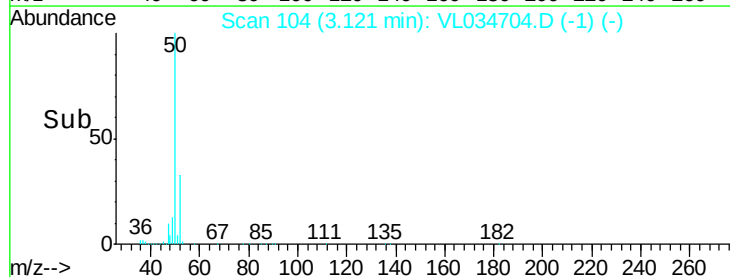
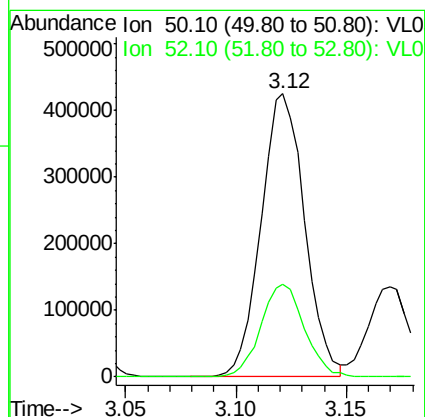
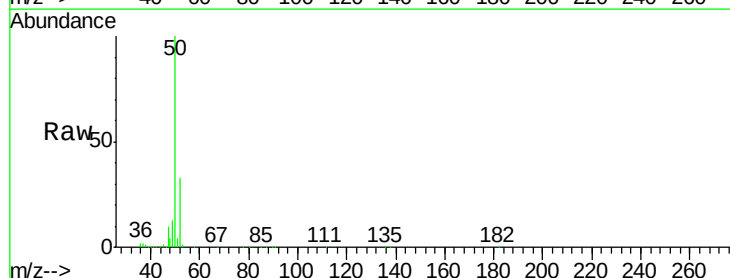
Acq: 27 Feb 2020 10:21

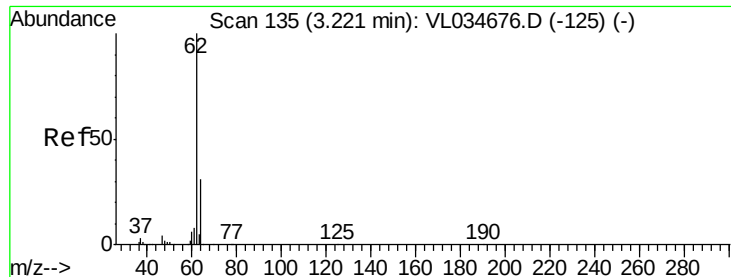
Tgt Ion: 50 Resp: 580700

Ion Ratio Lower Upper

50 100

52 32.7 25.0 37.4





#5

Vinyl Chloride

Concen: 9.773 ppbv

RT: 3.24 min Scan# 141

Delta R.T. 0.02 min

Lab File: VL034704.D

Acq: 27 Feb 2020 10:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 584211

Ion Ratio Lower Upper

62 100

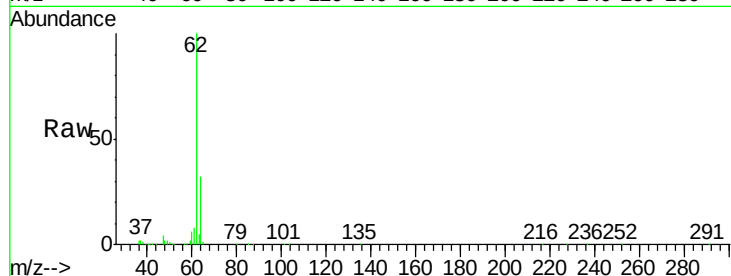
64 31.5 24.7 37.1

Manual Integrations

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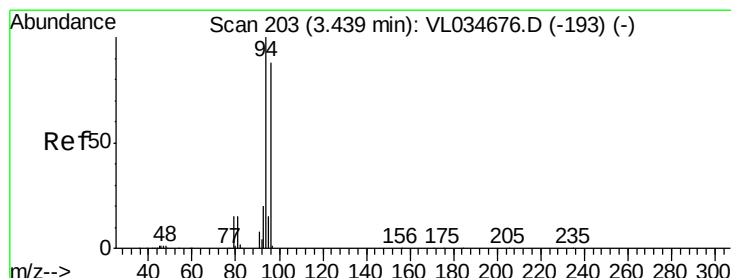
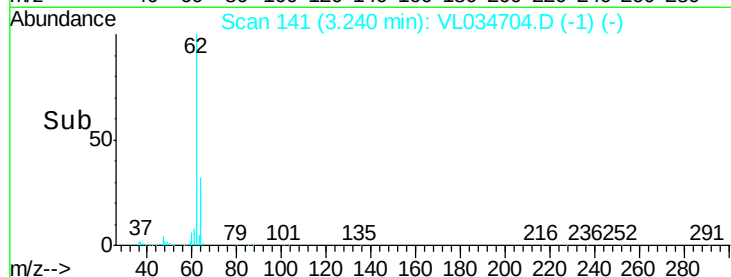
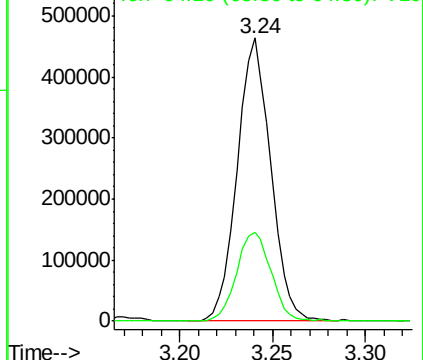
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.990 ppbv

RT: 3.46 min Scan# 209

Delta R.T. 0.02 min

Lab File: VL034704.D

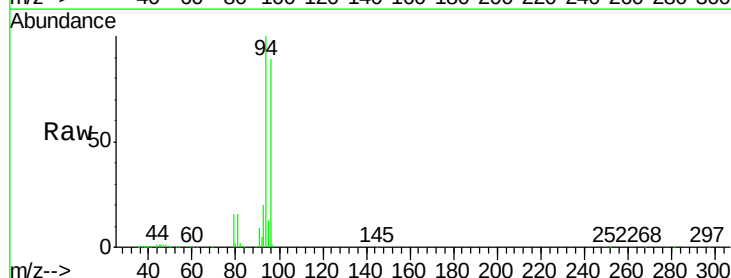
Acq: 27 Feb 2020 10:21

Tgt Ion: 94 Resp: 349875

Ion Ratio Lower Upper

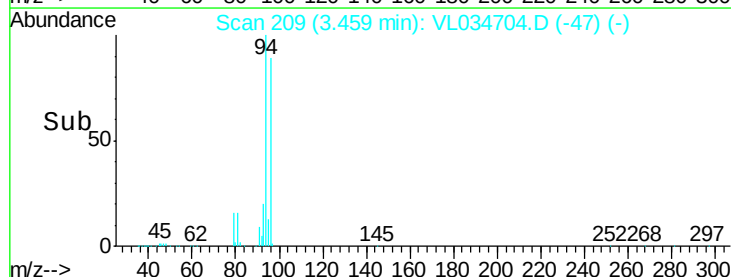
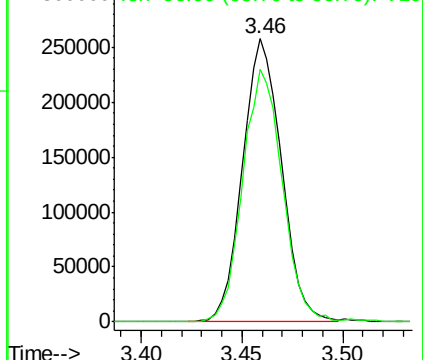
94 100

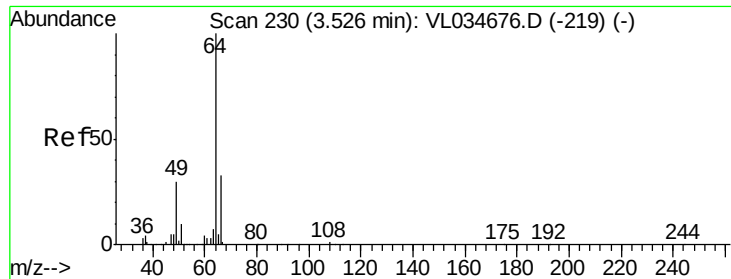
96 89.1 70.5 105.7



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.584 ppbv

RT: 3.55 min Scan# 236

Delta R.T. 0.02 min

Lab File: VL034704.D

Acq: 27 Feb 2020 10:21

Instrument :

MSVOA_L

ClientSampleId :

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Tot Ion: 64 Resp: 212678

Ion Ratio Lower Upper

64 100

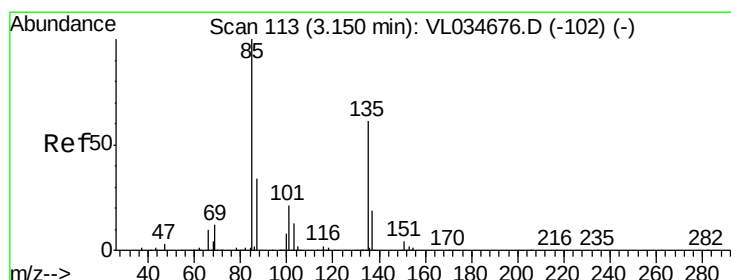
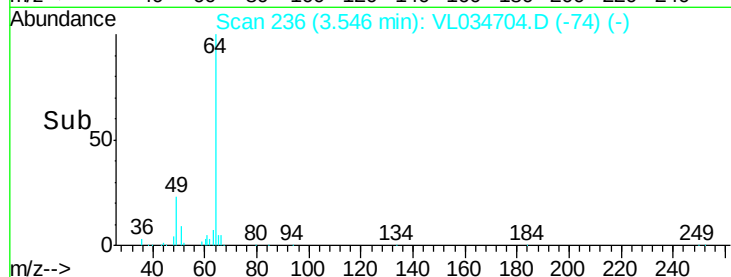
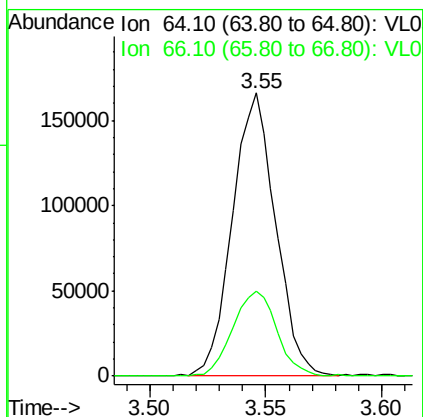
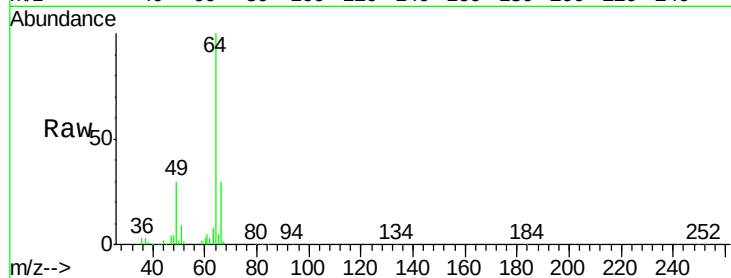
66 30.1 26.7 40.1

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 9.314 ppbv

RT: 3.17 min Scan# 119

Delta R.T. 0.02 min

Lab File: VL034704.D

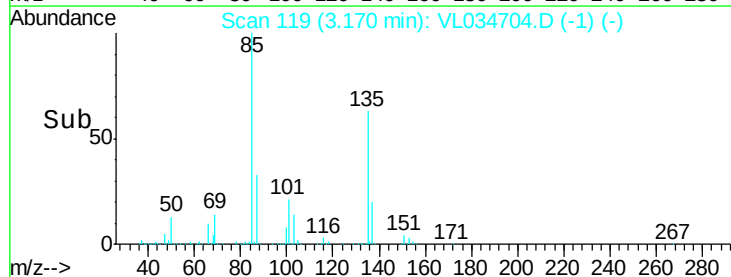
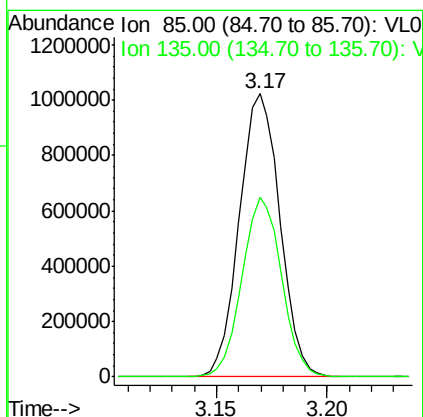
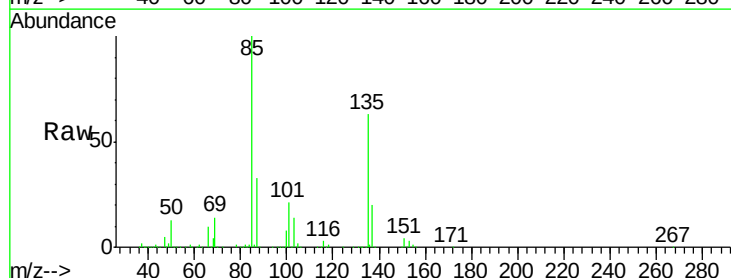
Acq: 27 Feb 2020 10:21

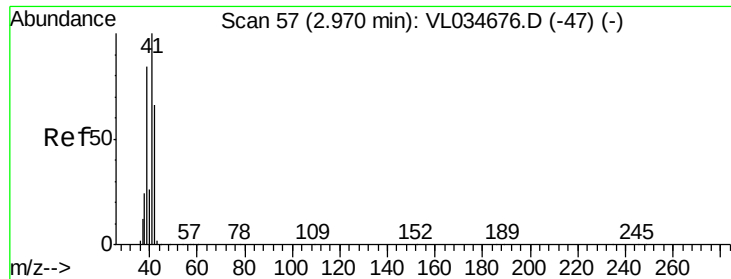
Tgt Ion: 85 Resp: 1310891

Ion Ratio Lower Upper

85 100

135 62.2 49.8 74.6





#9

Propene

Concen: 9.595 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.02 min

Lab File: VL034704.D

Acq: 27 Feb 2020 10:21

Instrument :

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ClientSampleId :

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Tot Ion: 41 Resp: 436581

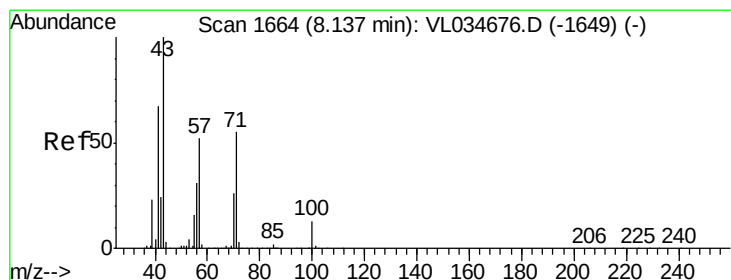
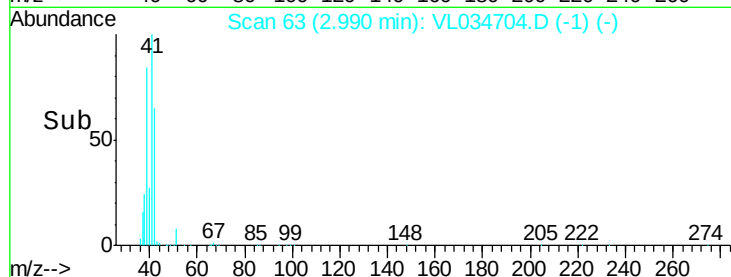
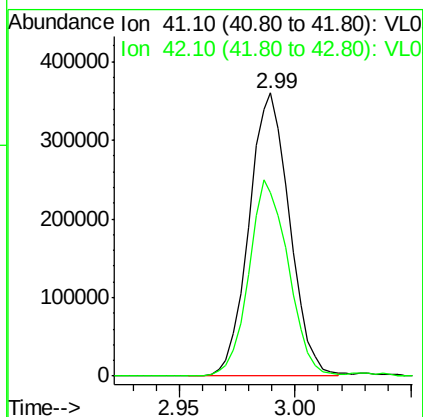
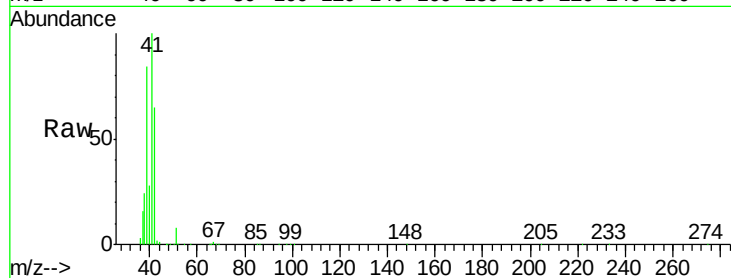
Ion Ratio Lower Upper

41 100

42 68.8 54.9 82.3

Manual Integrations
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#10

Heptane

Concen: 10.292 ppbv

RT: 8.16 min Scan# 1672

Delta R.T. 0.03 min

Lab File: VL034704.D

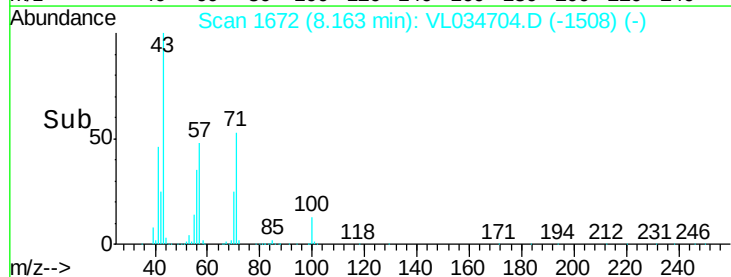
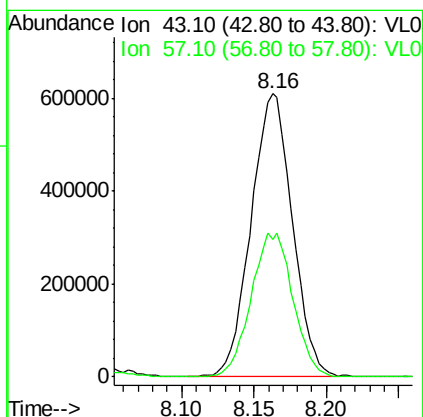
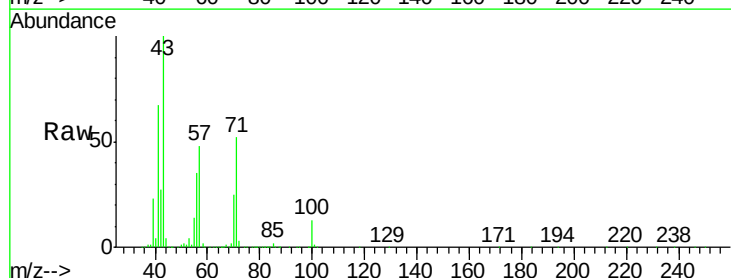
Acq: 27 Feb 2020 10:21

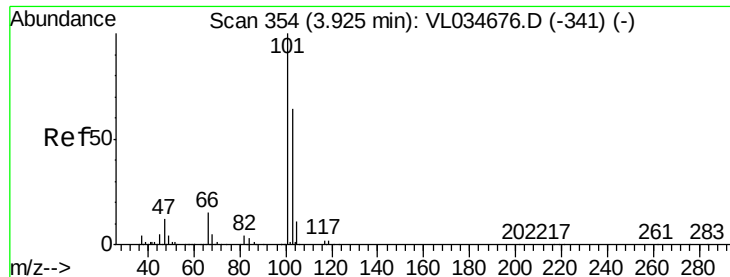
Tgt Ion: 43 Resp: 1205379

Ion Ratio Lower Upper

43 100

57 51.8 41.0 61.6





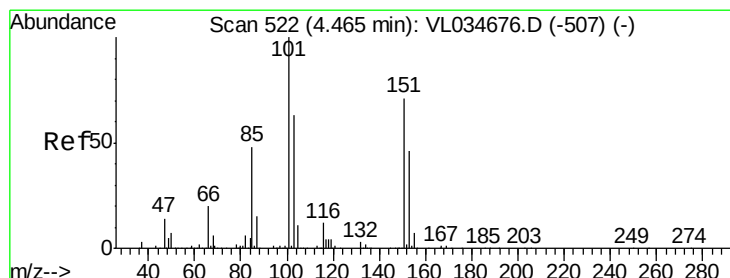
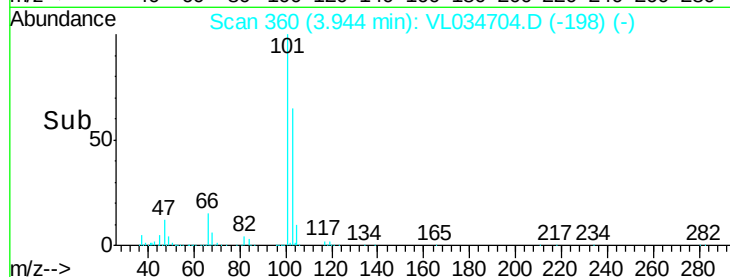
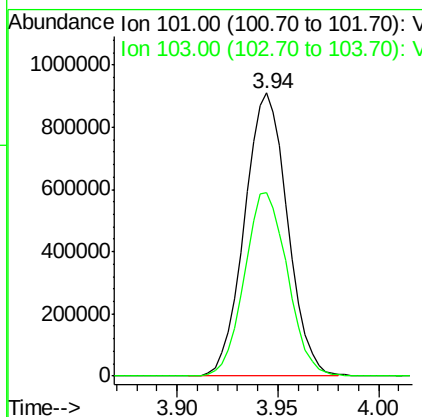
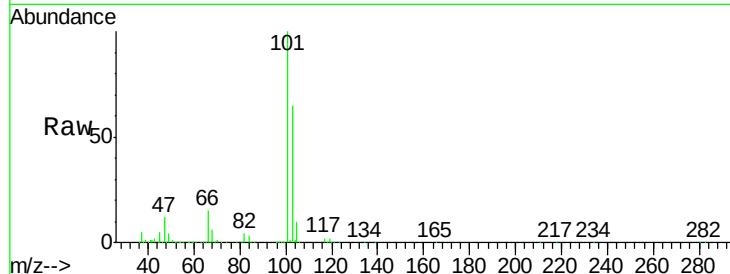
#11
 Trichlorofluoromethane
 Concen: 9.752 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. 0.02 min
 Lab File: VL034704.D
 Acq: 27 Feb 2020 10:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:101 Resp: 1359068
 Ion Ratio Lower Upper
 101 100
 103 64.9 51.2 76.8

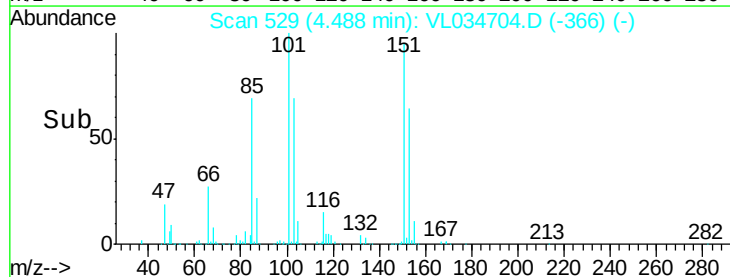
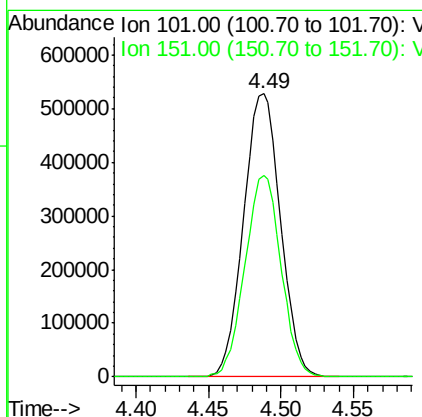
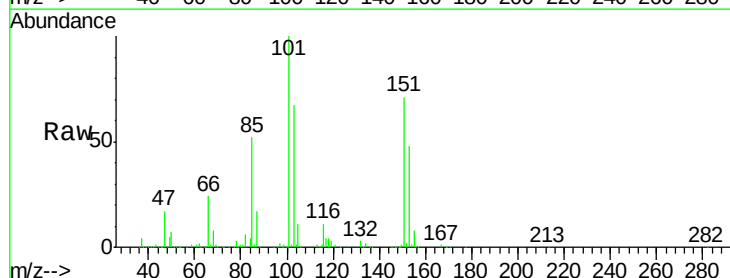
Manual Integrations
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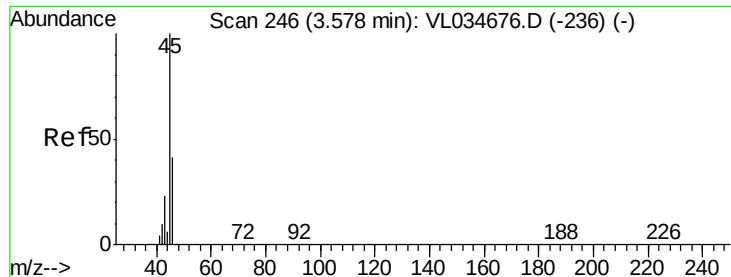
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.549 ppbv
 RT: 4.49 min Scan# 529
 Delta R.T. 0.02 min
 Lab File: VL034704.D
 Acq: 27 Feb 2020 10:21

Tgt Ion:101 Resp: 938091
 Ion Ratio Lower Upper
 101 100
 151 69.6 55.8 83.6





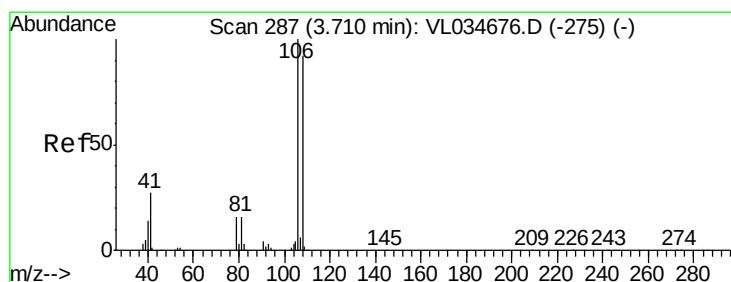
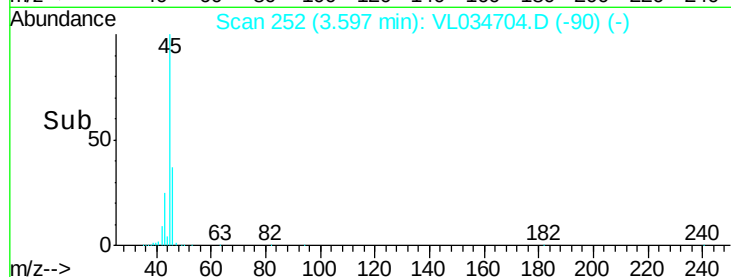
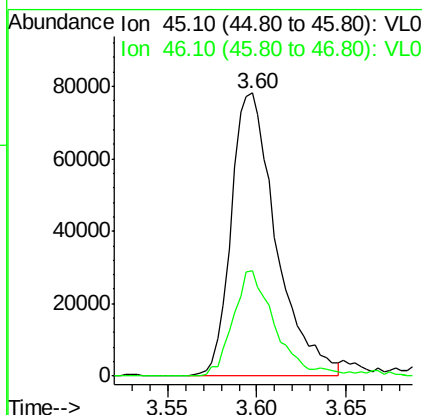
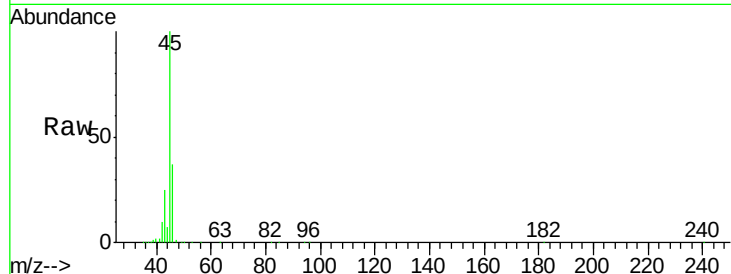
#13
Ethanol
Concen: 9.609 ppbv
RT: 3.60 min Scan# 252
Delta R.T. 0.02 min
Lab File: VL034704.D
Acq: 27 Feb 2020 10:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 45 Resp: 138119
Ion Ratio Lower Upper
45 100
46 35.9 15.4 61.4

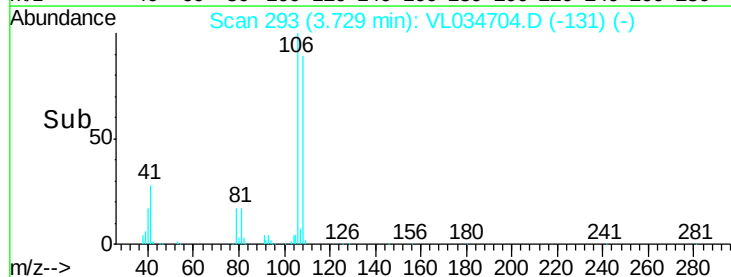
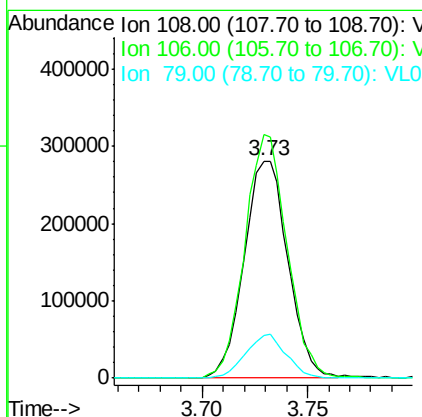
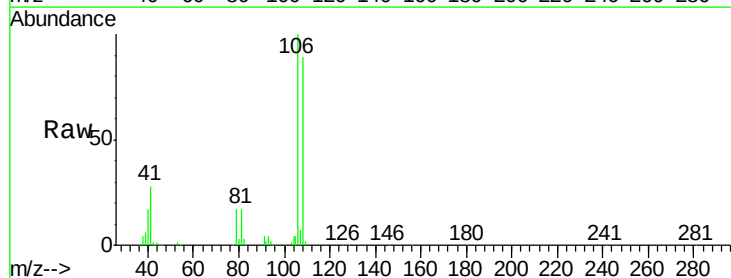
Manual Integrations
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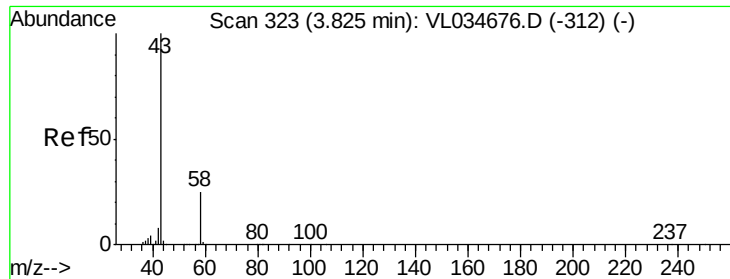
MMDadoda
2/28/2020 12:32:26 PM



#14
Bromoethene
Concen: 9.902 ppbv
RT: 3.73 min Scan# 293
Delta R.T. 0.02 min
Lab File: VL034704.D
Acq: 27 Feb 2020 10:21

Tgt Ion: 108 Resp: 405882
Ion Ratio Lower Upper
108 100
106 109.1 86.7 130.1
79 19.1 15.0 22.6





#15

Acetone

Concen: 8.945 ppbv

RT: 3.84 min Scan# 328

Delta R.T. 0.02 min

Lab File: VL034704.D

Acq: 27 Feb 2020 10:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1028084

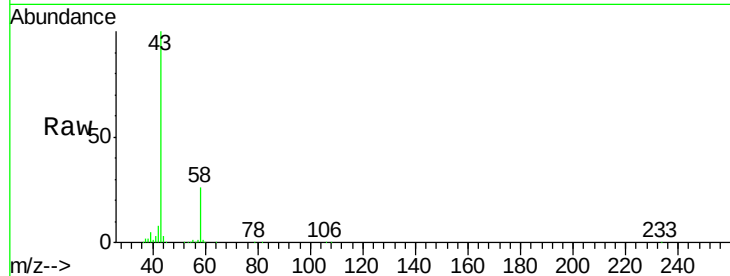
Ion Ratio Lower Upper

43 100

58 26.7 21.4 32.0

Manual Integrations
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.84

800000

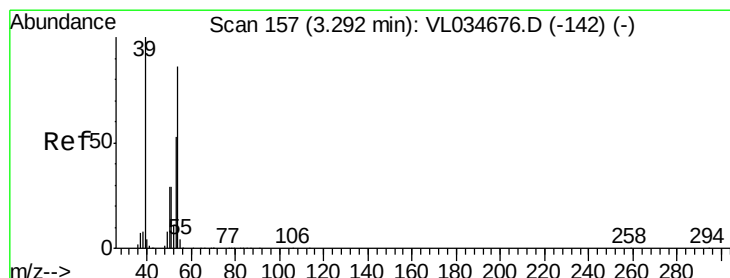
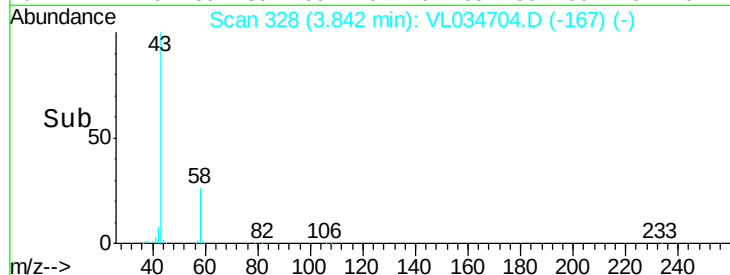
600000

400000

200000

0

Time-->



#16

1,3-Butadiene

Concen: 9.823 ppbv

RT: 3.31 min Scan# 163

Delta R.T. 0.02 min

Lab File: VL034704.D

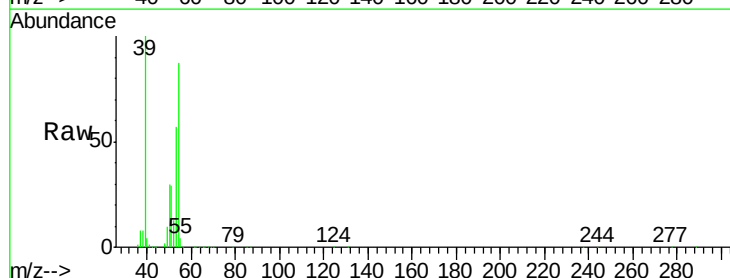
Acq: 27 Feb 2020 10:21

Tgt Ion: 39 Resp: 522647

Ion Ratio Lower Upper

39 100

54 83.7 67.0 100.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.31

400000

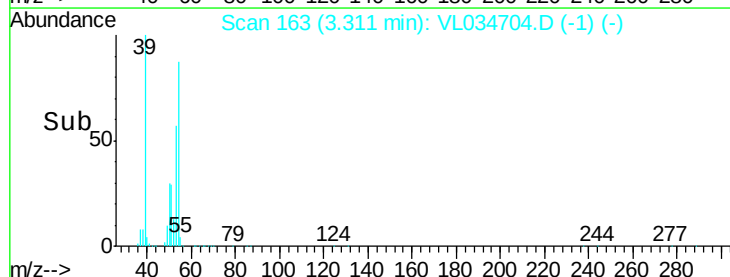
300000

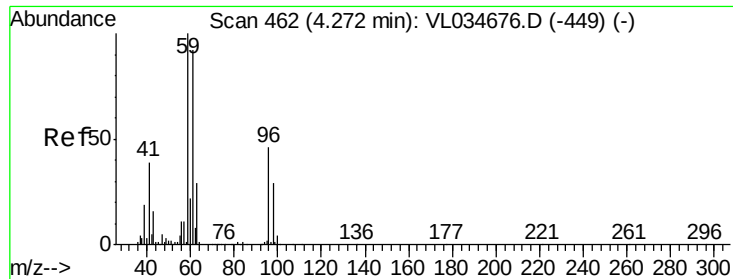
200000

100000

0

Time-->





#17

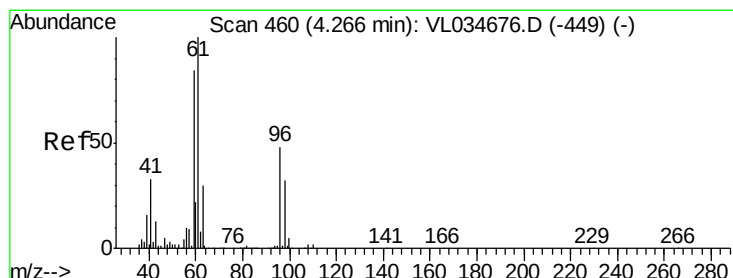
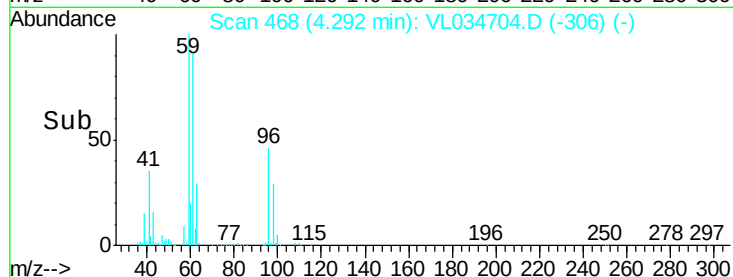
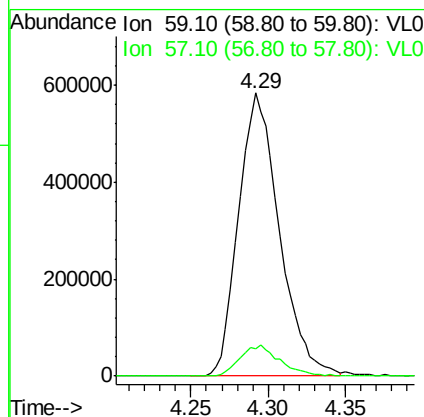
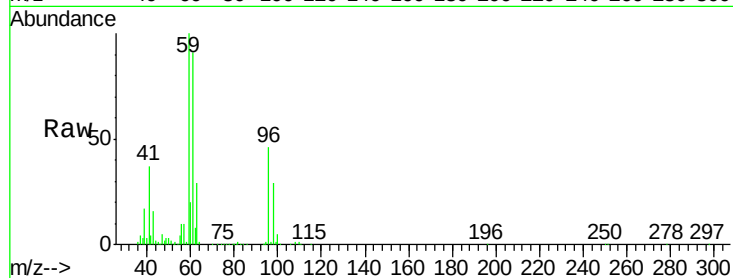
tert-Butyl alcohol
 Concen: 12.155 ppbv
 RT: 4.29 min Scan# 468
 Delta R.T. 0.02 min
 Lab File: VL034704.D
 Acq: 27 Feb 2020 10:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 59 Resp: 1070530
 Ion Ratio Lower Upper
 59 100
 57 10.8 8.8 13.2

Manual Integrations
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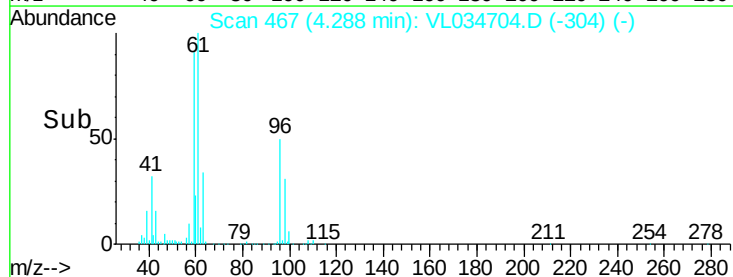
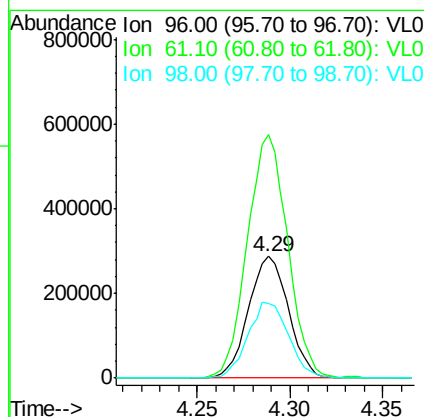
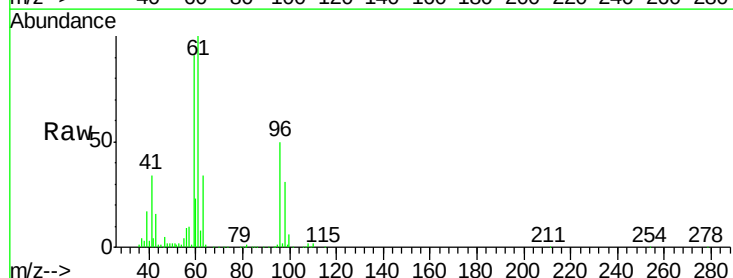
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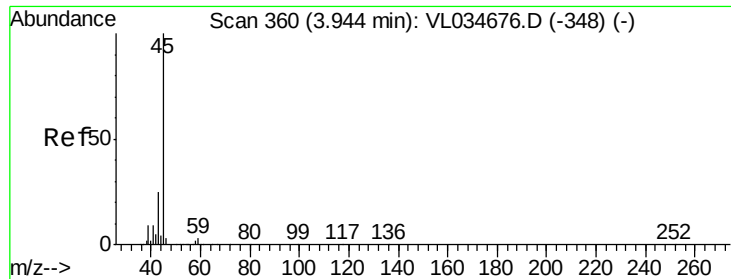


#18

1,1-Dichloroethene
 Concen: 9.798 ppbv
 RT: 4.29 min Scan# 467
 Delta R.T. 0.02 min
 Lab File: VL034704.D
 Acq: 27 Feb 2020 10:21

Tgt Ion: 96 Resp: 432144
 Ion Ratio Lower Upper
 96 100
 61 200.3 165.1 247.7
 98 61.6 52.7 79.1





#19

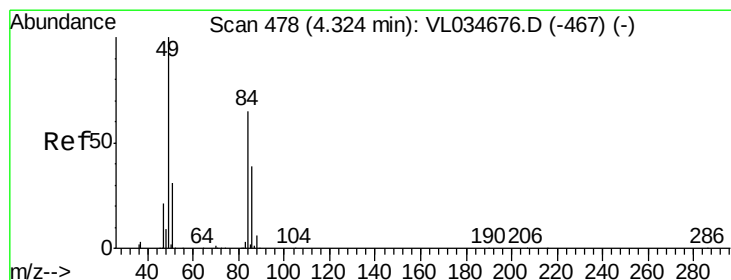
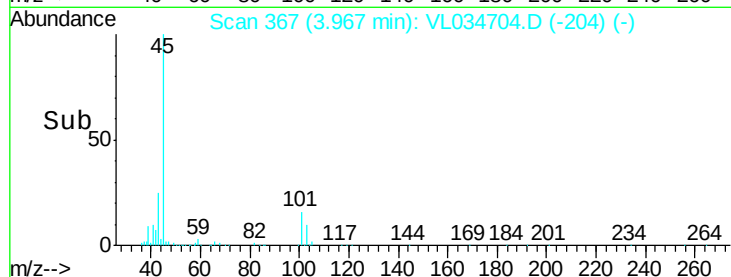
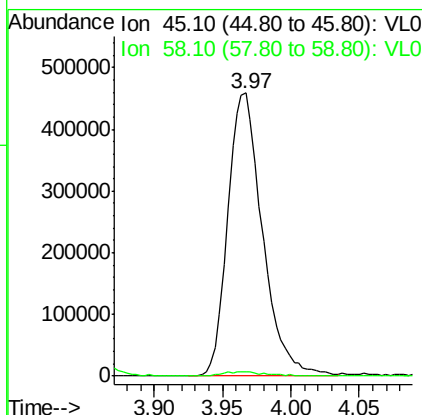
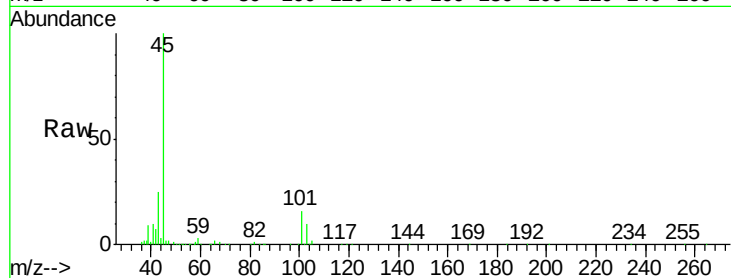
Isopropyl Alcohol
 Concen: 11.823 ppbv
 RT: 3.97 min Scan# 367
 Delta R.T. 0.02 min
 Lab File: VL034704.D
 Acq: 27 Feb 2020 10:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	45	Resp	809403
Ion Ratio	100	Lower	Upper
58	1.9	1.8	2.6

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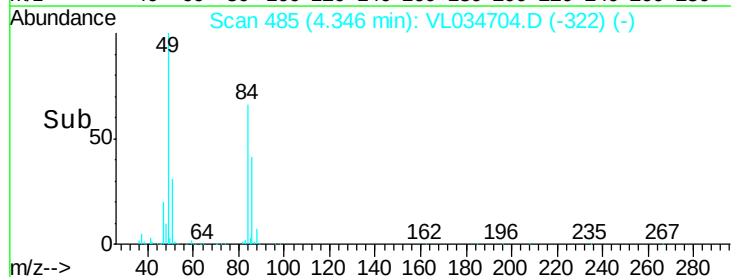
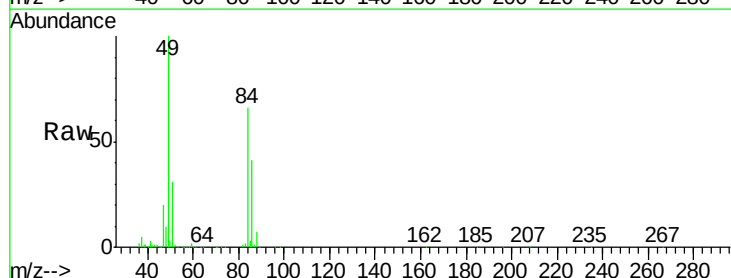
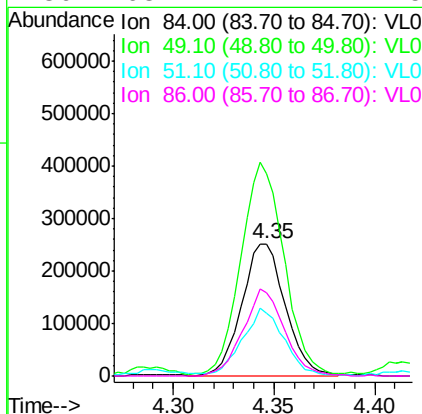
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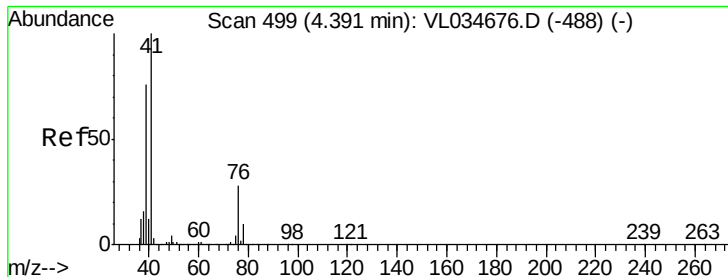


#20

Methylene Chloride
 Concen: 8.900 ppbv
 RT: 4.35 min Scan# 485
 Delta R.T. 0.02 min
 Lab File: VL034704.D
 Acq: 27 Feb 2020 10:21

Tgt Ion	84	Resp	380455
Ion Ratio	100	Lower	Upper
49	151.6	122.8	184.2
51	46.7	38.6	58.0
86	63.2	47.7	71.5





#21

Allvl Chloride

Concen: 10.043 ppbv

RT: 4.41 min Scan# 506

Delta R.T. 0.02 min

Lab File: VL034704.D

Acq: 27 Feb 2020 10:21

Instrument :

MSVOA_L

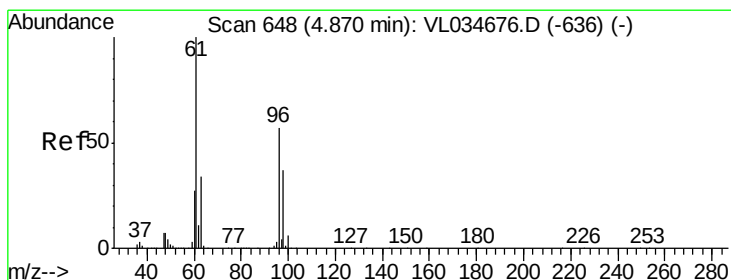
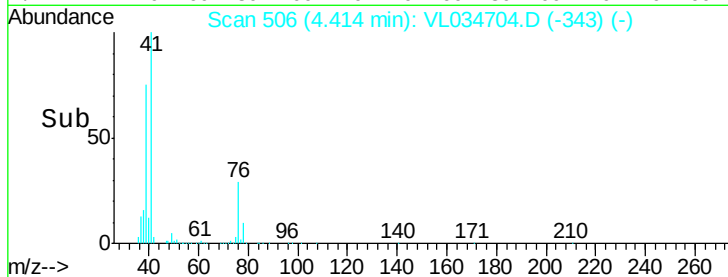
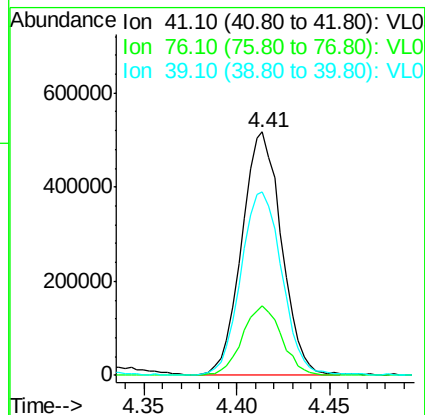
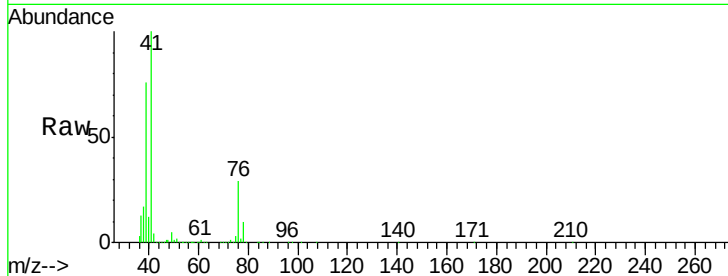
ClientSampleId :

VSTDCCC010

Tot Ion:	41	Resp:	763677
Ion Ratio		Lower	Upper
41	100		
76	28.4	22.8	34.2
39	79.7	61.7	92.5

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 9.938 ppbv

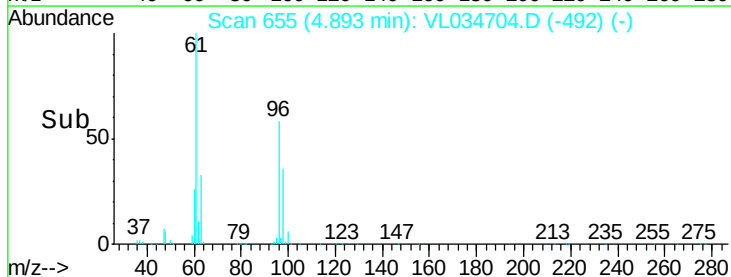
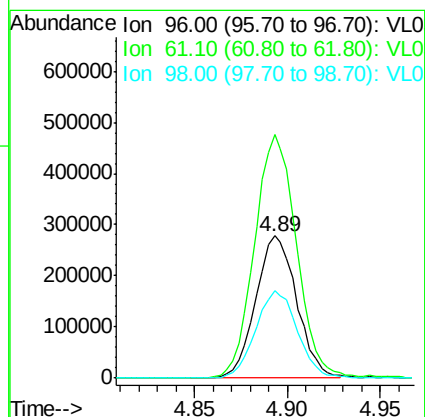
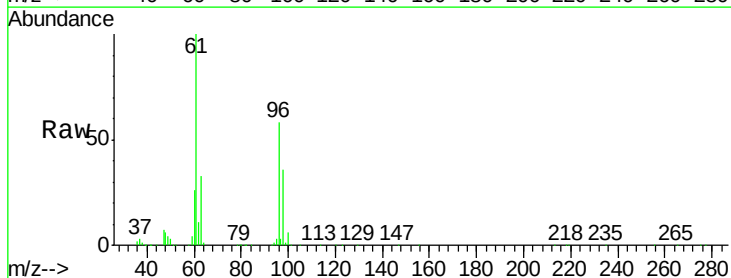
RT: 4.89 min Scan# 655

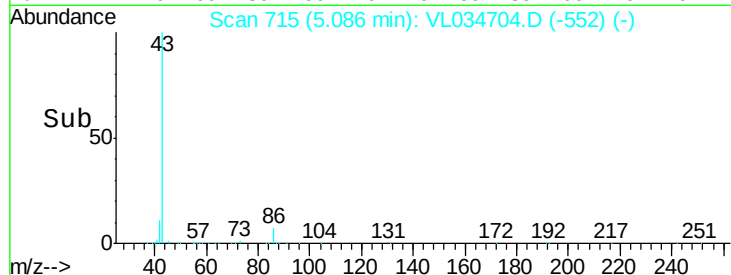
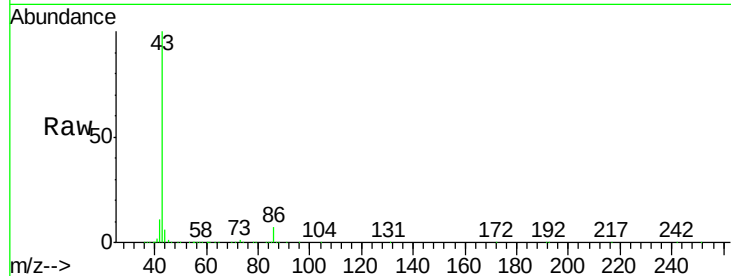
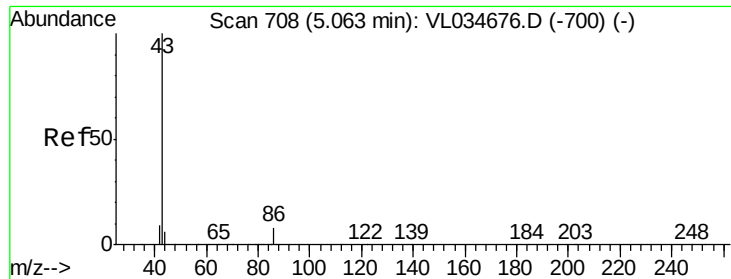
Delta R.T. 0.02 min

Lab File: VL034704.D

Acq: 27 Feb 2020 10:21

Tgt Ion:	96	Resp:	427351
Ion Ratio		Lower	Upper
96	100		
61	171.0	139.4	209.0
98	61.2	51.3	76.9





#23

Vinyl Acetate

Concen: 10.731 ppbv

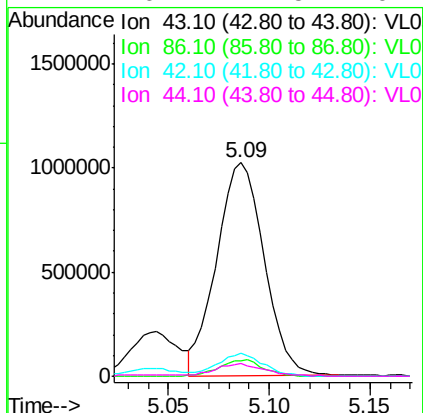
RT: 5.09 min Scan# 715

Delta R.T. 0.02 min

Lab File: VL034704.D

Acq: 27 Feb 2020 10:21

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
86	7.2	6.0	9.0	
42	11.1	8.0	12.0	
44	6.1	4.5	6.7	



Instrument :

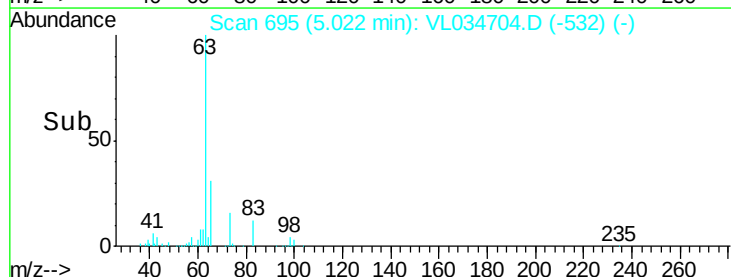
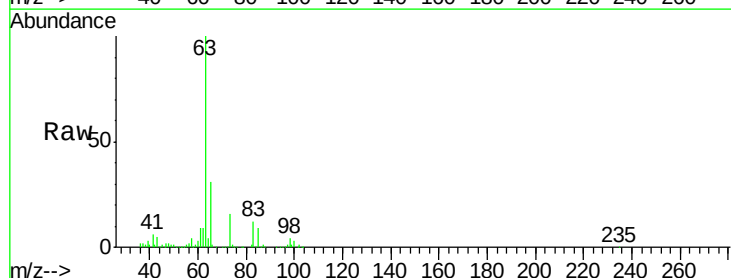
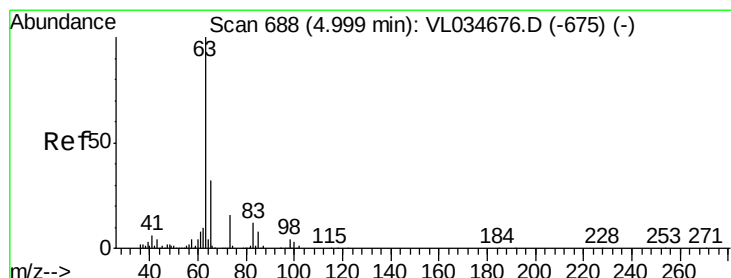
MSVOA_L

ClientSampleId :

VSTDCCC010

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#24

1,1-Dichloroethane

Concen: 9.793 ppbv

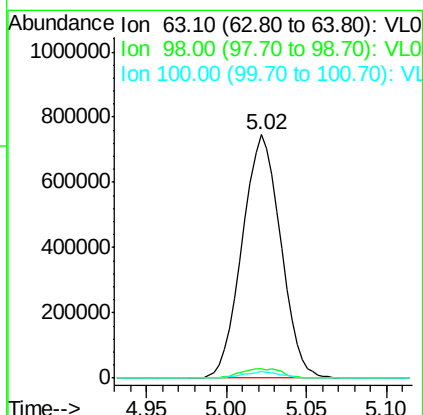
RT: 5.02 min Scan# 695

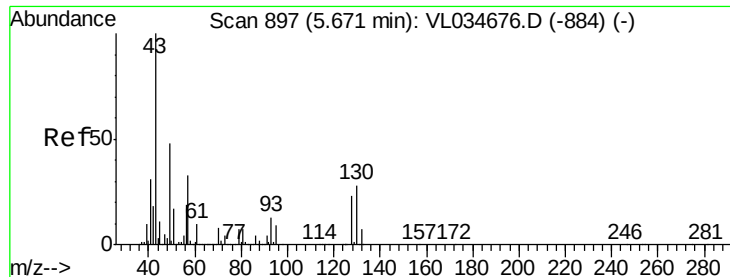
Delta R.T. 0.02 min

Lab File: VL034704.D

Acq: 27 Feb 2020 10:21

Tgt Ion	Ion	Ratio	Lower	Upper
63	100			
98	3.9	2.1	6.2	
100	2.8	1.4	4.0	





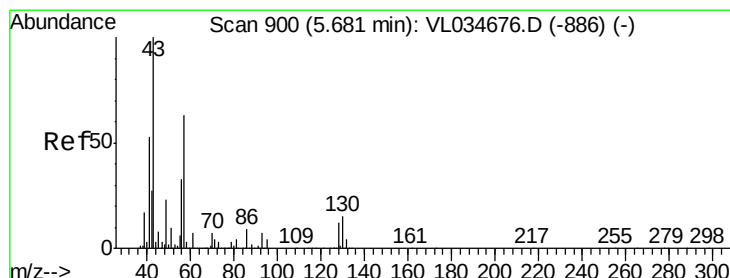
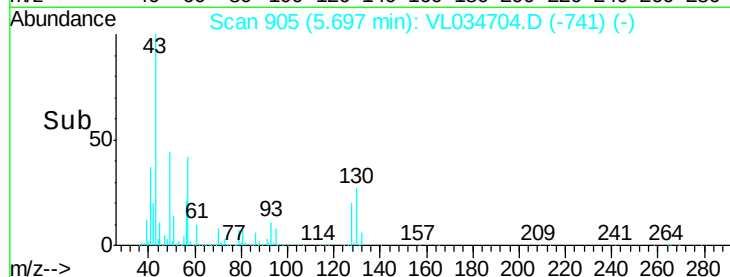
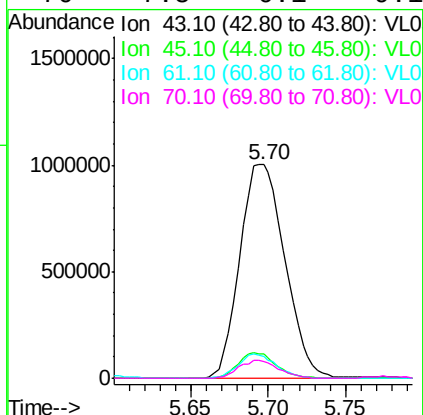
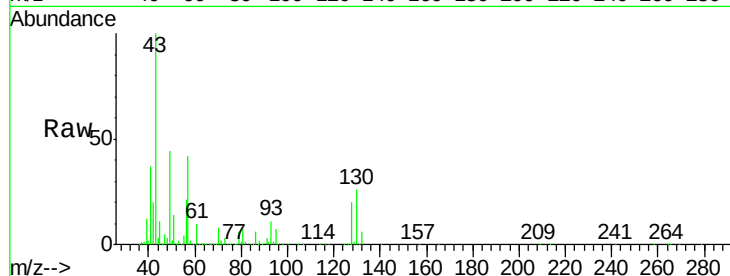
#25
Ethyl Acetate
Concen: 9.977 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.03 min
Lab File: VL034704.D
Acq: 27 Feb 2020 10:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	10.2	8.2	12.4	
61	9.7	7.8	11.6	
70	7.5	6.1	9.1	

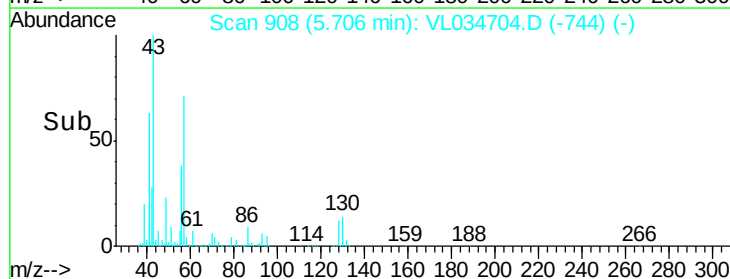
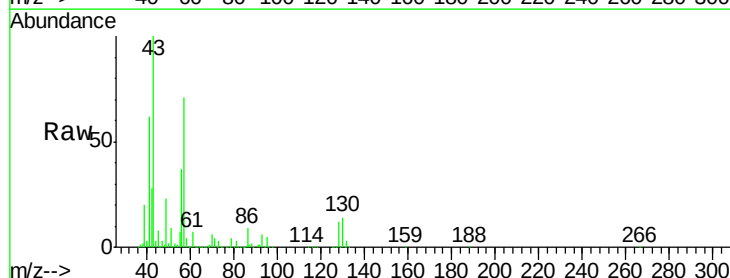
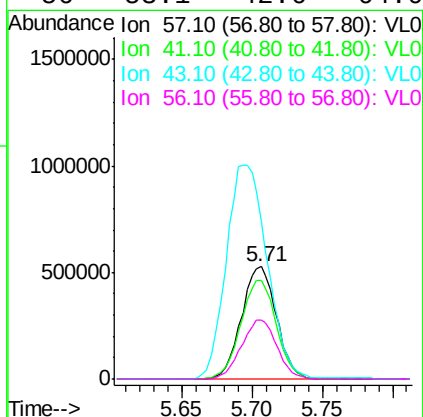
Manual Integrations
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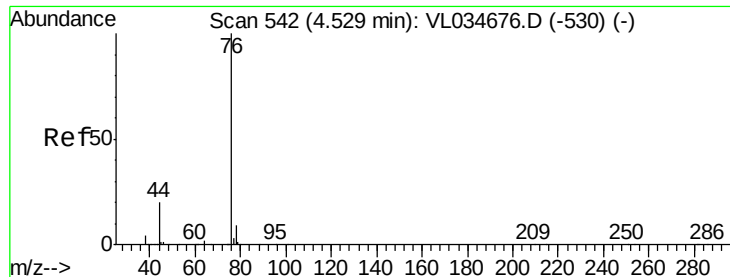
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#26
Hexane
Concen: 9.787 ppbv
RT: 5.71 min Scan# 908
Delta R.T. 0.03 min
Lab File: VL034704.D
Acq: 27 Feb 2020 10:21

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	89.0	70.3	105.5	
43	222.8	177.0	265.4	
56	53.1	42.6	64.0	





#27

Carbon Disulfide

Concen: 10.436 ppbv

RT: 4.55 min Scan# 549

Delta R.T. 0.02 min

Lab File: VL034704.D

Acq: 27 Feb 2020 10:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 76 Resp: 1110893

Ion Ratio Lower Upper

76 100

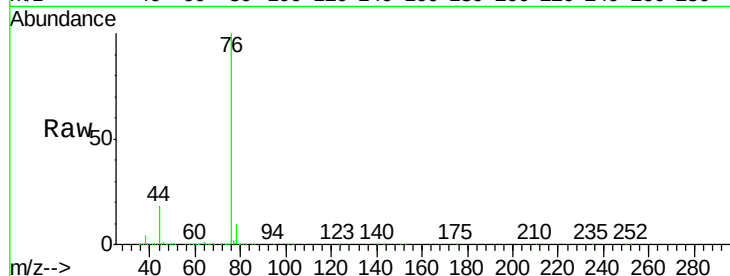
44 20.0 15.3 22.9

78 9.8 7.6 11.4

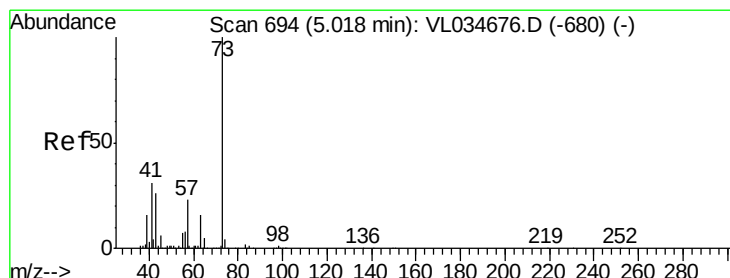
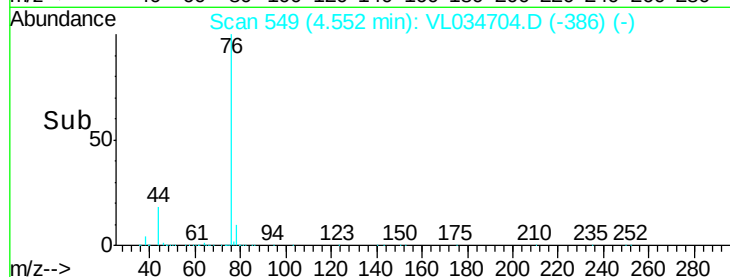
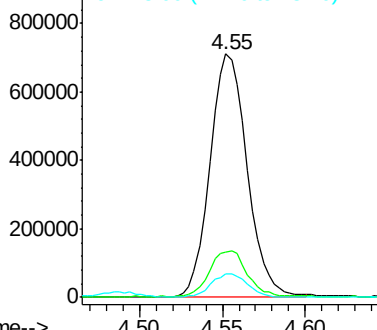
Manual Integrations
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Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 10.288 ppbv

RT: 5.04 min Scan# 702

Delta R.T. 0.03 min

Lab File: VL034704.D

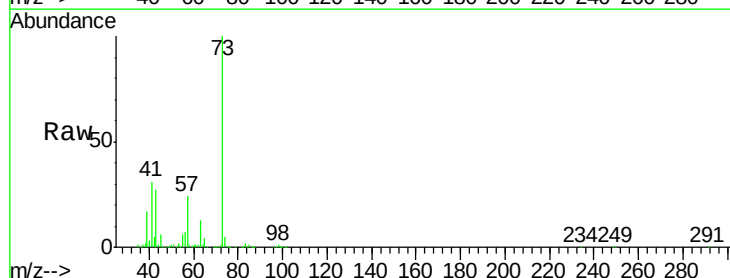
Acq: 27 Feb 2020 10:21

Tgt Ion: 73 Resp: 1378236

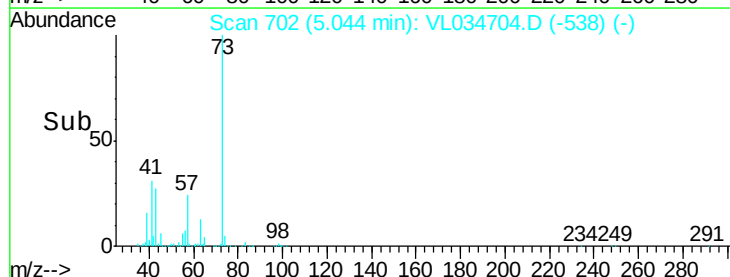
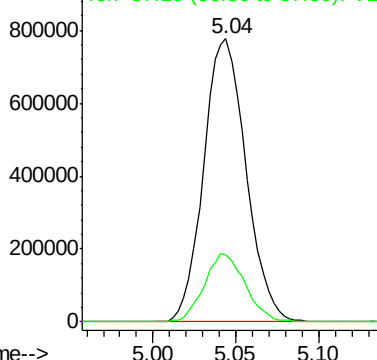
Ion Ratio Lower Upper

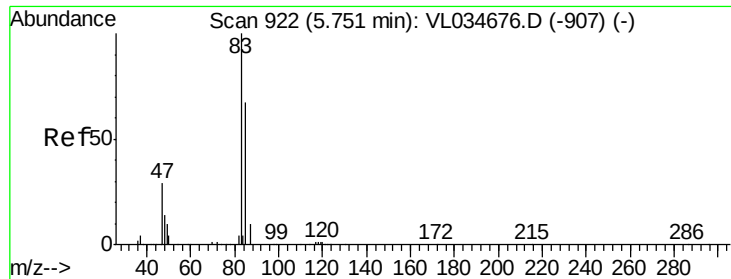
73 100

57 23.5 18.6 28.0



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





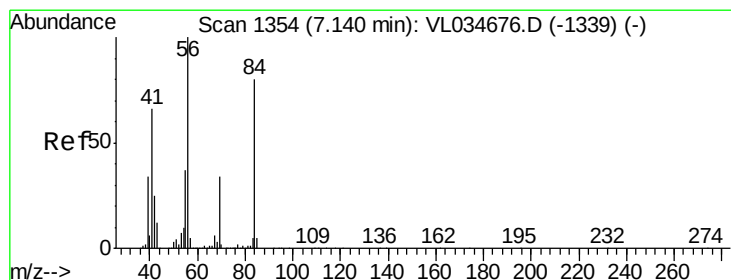
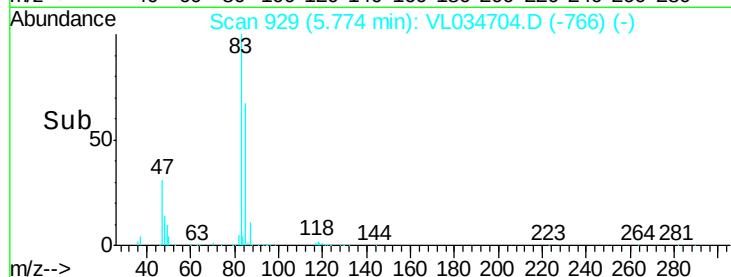
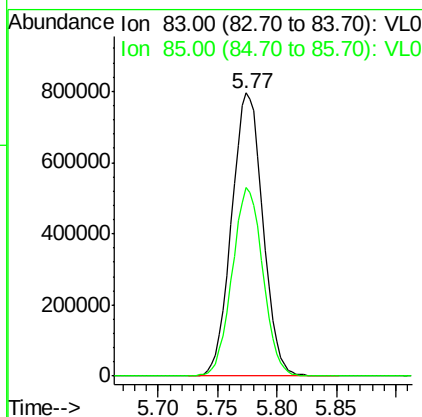
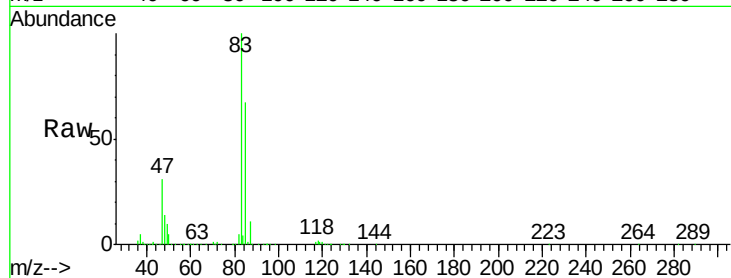
#29
Chloroform
Concen: 9.686 ppbv
RT: 5.77 min Scan# 929
Delta R.T. 0.02 min
Lab File: VL034704.D
Acq: 27 Feb 2020 10:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 83 Resp: 1447168
Ion Ratio Lower Upper
83 100
85 66.6 53.9 80.9

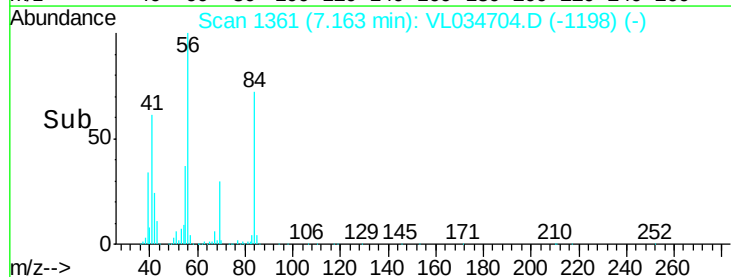
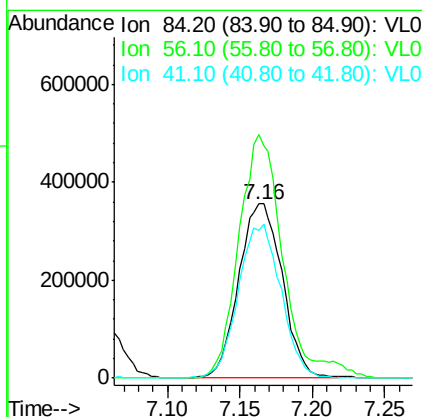
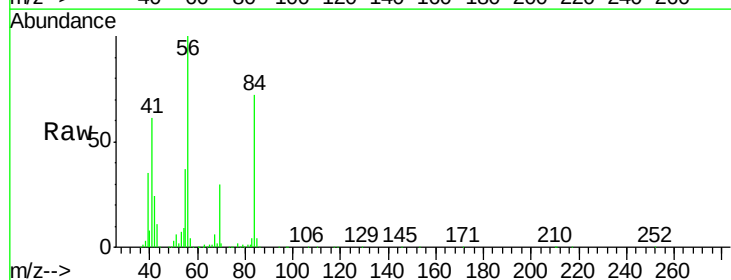
Manual Integrations
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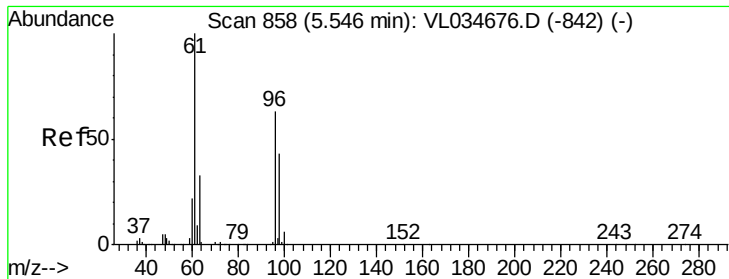
MMDadoda
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#30
Cyclohexane
Concen: 10.222 ppbv
RT: 7.16 min Scan# 1361
Delta R.T. 0.02 min
Lab File: VL034704.D
Acq: 27 Feb 2020 10:21

Tgt Ion: 84 Resp: 742896
Ion Ratio Lower Upper
84 100
56 142.6 113.4 170.2
41 86.7 68.2 102.4





#31

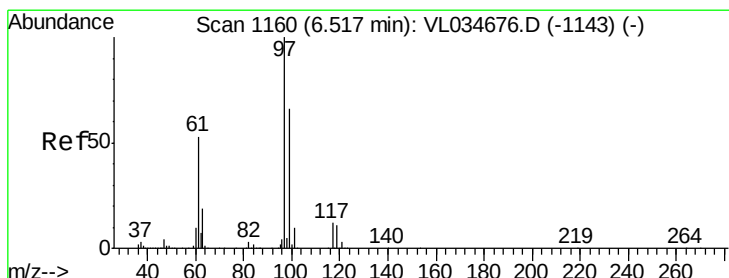
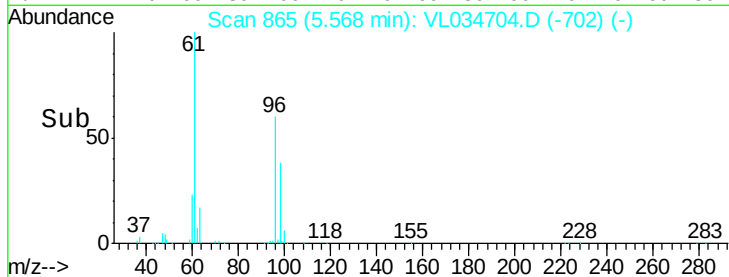
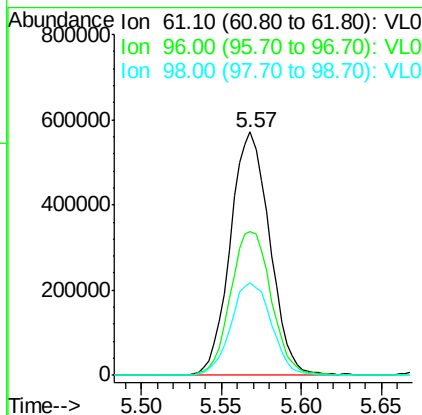
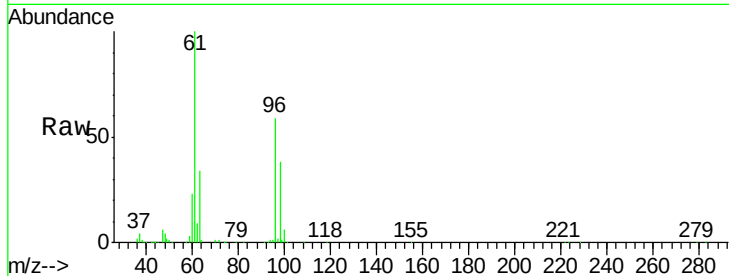
cis-1,2-Dichloroethene
 Concen: 10.312 ppbv
 RT: 5.57 min Scan# 865
 Delta R.T. 0.02 min
 Lab File: VL034704.D
 Acq: 27 Feb 2020 10:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:	61	Resp:	951588
Ion Ratio	Lower	Upper	
61	100		
96	59.2	50.2	75.2
98	38.1	34.3	51.5

Manual Integrations
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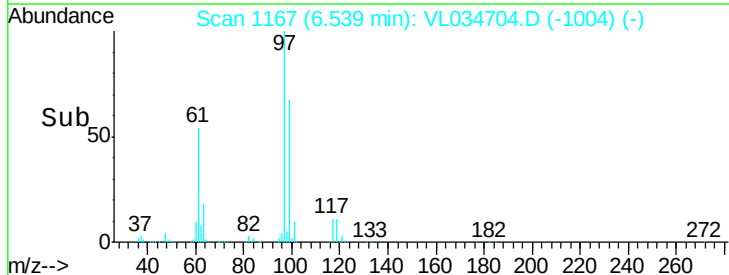
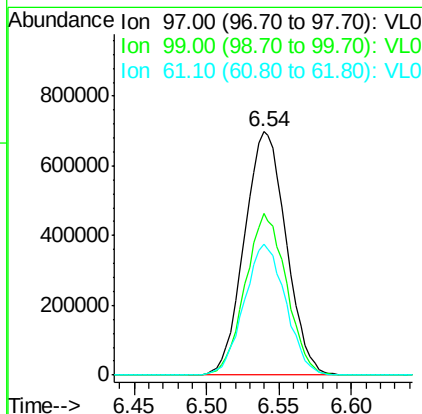
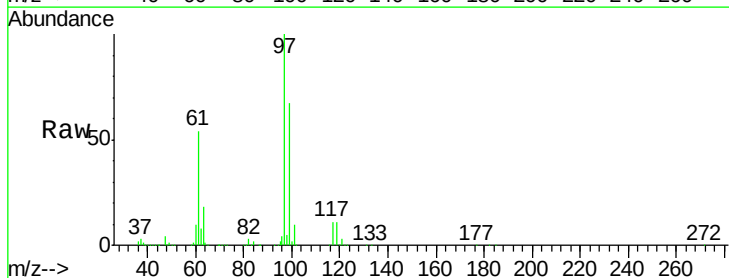
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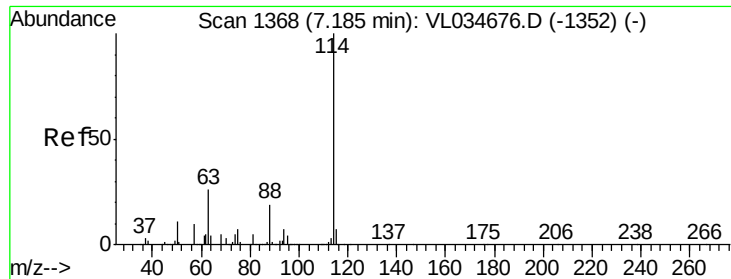


#32

1,1,1-Trichloroethane
 Concen: 10.044 ppbv
 RT: 6.54 min Scan# 1167
 Delta R.T. 0.02 min
 Lab File: VL034704.D
 Acq: 27 Feb 2020 10:21

Tgt Ion:	97	Resp:	1401359
Ion Ratio	Lower	Upper	
97	100		
99	65.5	52.3	78.5
61	53.6	42.8	64.2





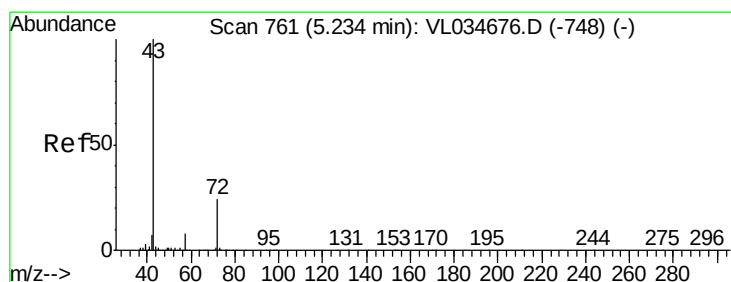
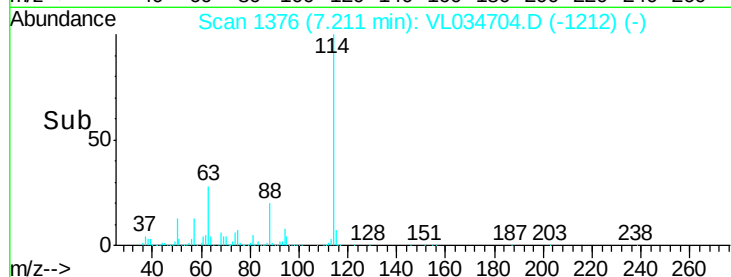
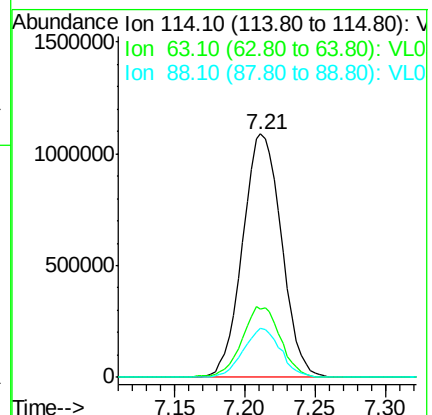
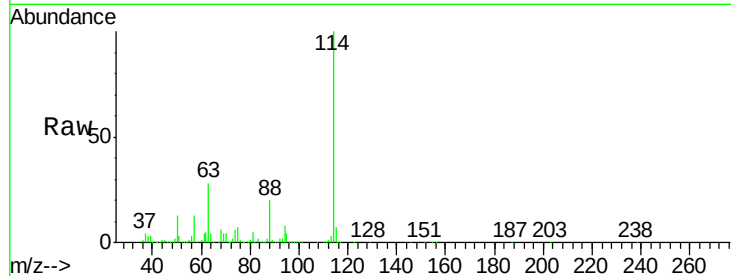
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1376
 Delta R.T. 0.03 min
 Lab File: VL034704.D
 Acq: 27 Feb 2020 10:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
114	100		
63	29.0	22.9	34.3
88	19.3	15.8	23.6

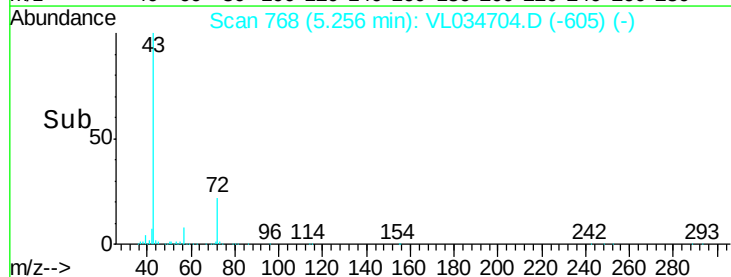
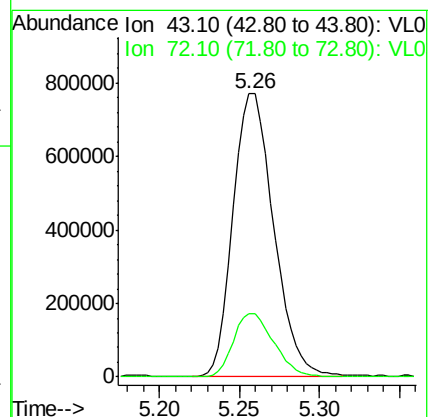
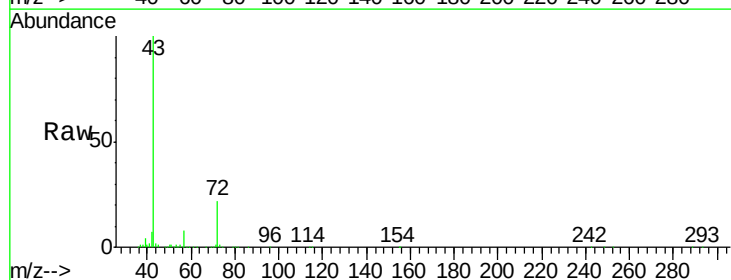
Manual Integrations
 APPROVED

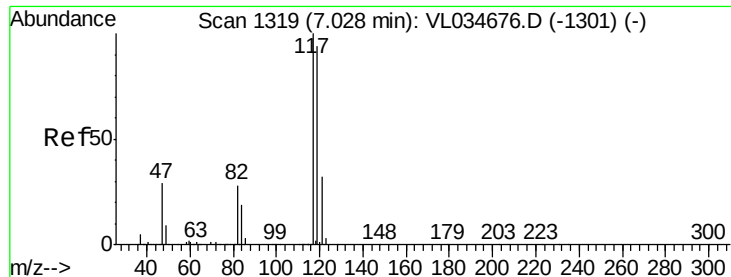
MMDadoda
 2/28/2020 12:32:26 PM



#34
 2-Butanone
 Concen: 10.065 ppbv
 RT: 5.26 min Scan# 768
 Delta R.T. 0.02 min
 Lab File: VL034704.D
 Acq: 27 Feb 2020 10:21

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.5	18.2	27.2





#35

Carbon Tetrachloride

Concen: 10.212 ppbv

RT: 7.05 min Scan# 1327

Delta R.T. 0.03 min

Lab File: VL034704.D

Acq: 27 Feb 2020 10:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 1438893

Ion Ratio Lower Upper

117 100

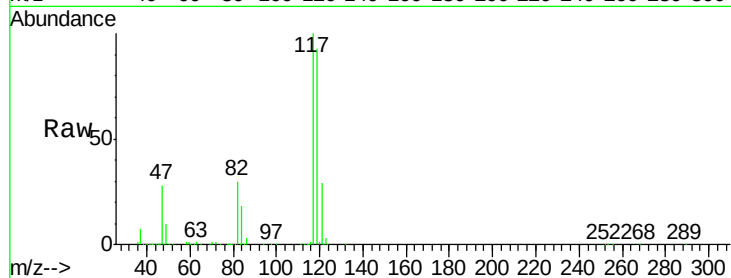
119 93.4 75.5 113.3

121 29.5 25.4 38.0

Manual Integrations
APPROVED

MMDadoda

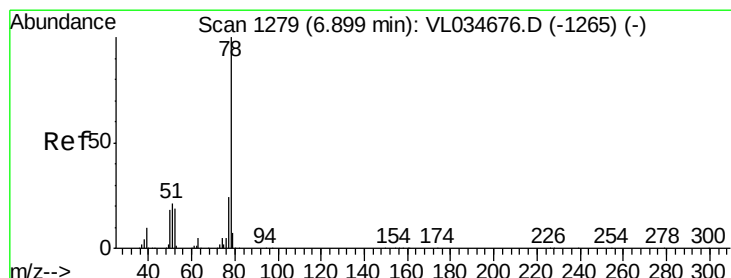
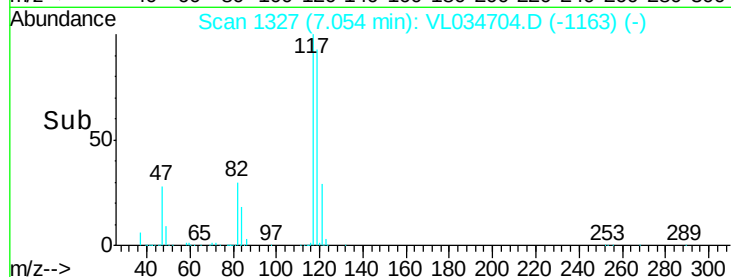
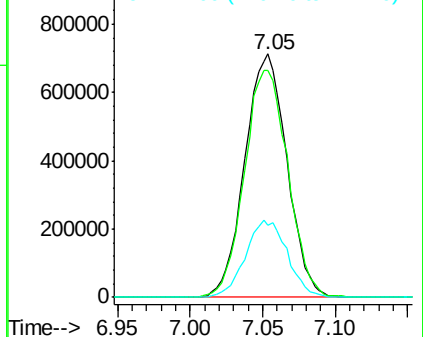
2/28/2020 12:32:26 PM



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: 9.975 ppbv

RT: 6.93 min Scan# 1287

Delta R.T. 0.03 min

Lab File: VL034704.D

Acq: 27 Feb 2020 10:21

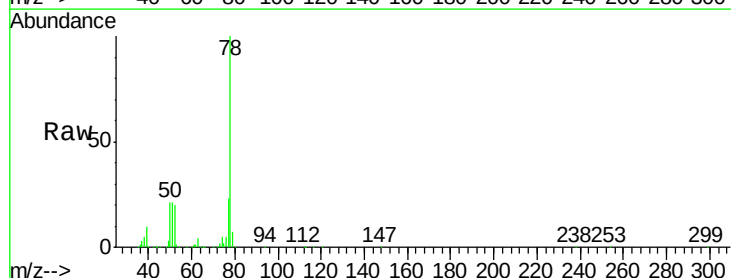
Tgt Ion: 78 Resp: 1812643

Ion Ratio Lower Upper

78 100

77 23.2 19.5 29.3

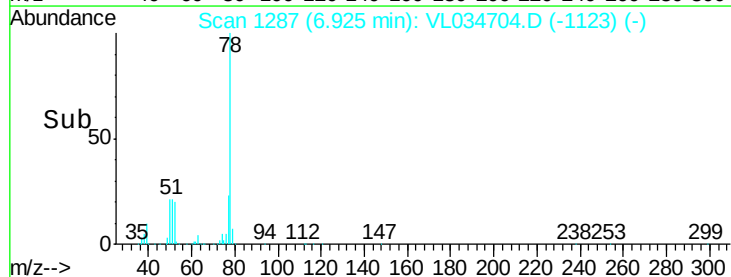
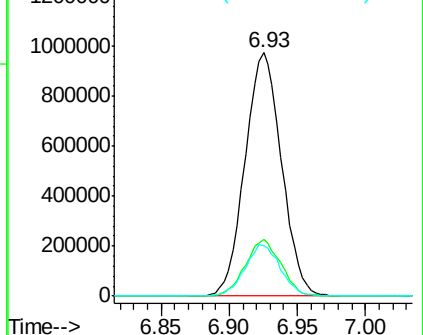
50 20.9 14.6 21.8

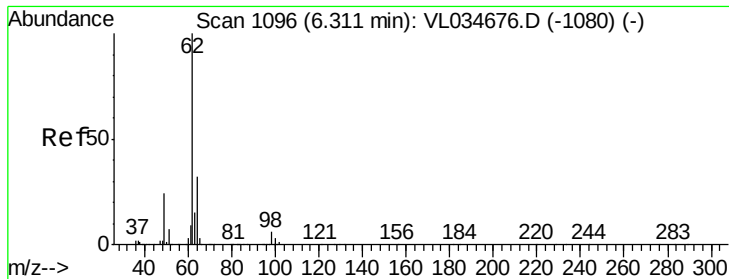


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





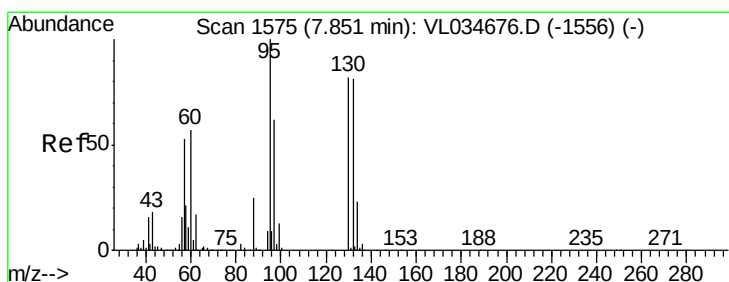
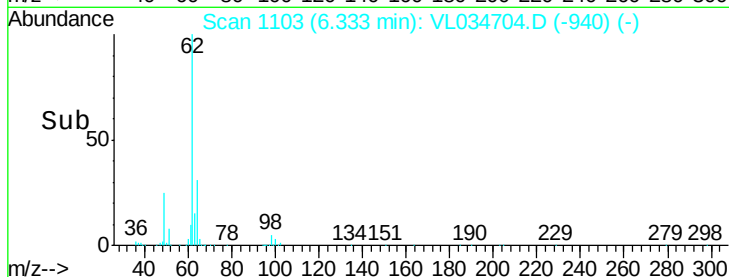
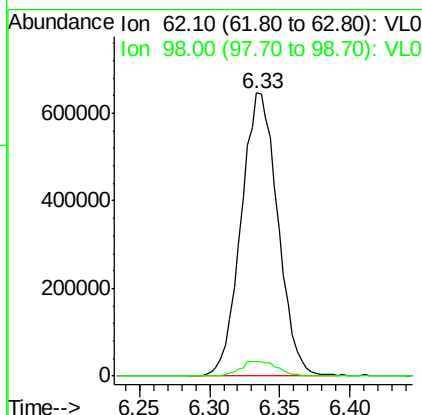
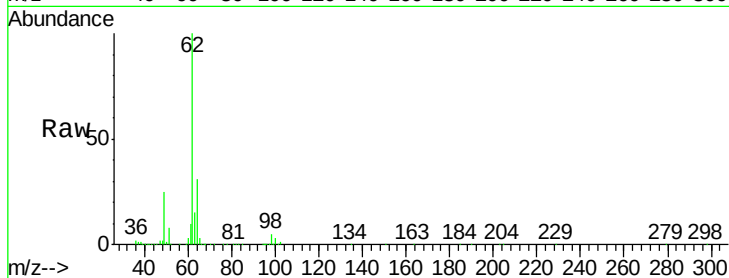
#37
 1,2-Dichloroethane
 Concen: 10.285 ppbv
 RT: 6.33 min Scan# 1103
 Delta R.T. 0.02 min
 Lab File: VL034704.D
 Acq: 27 Feb 2020 10:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 62 Resp: 1178160
 Ion Ratio Lower Upper
 62 100
 98 5.4 4.7 7.1

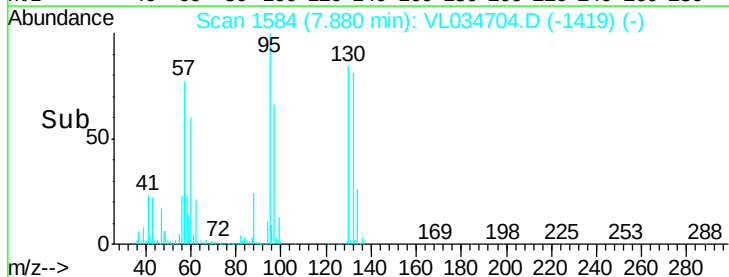
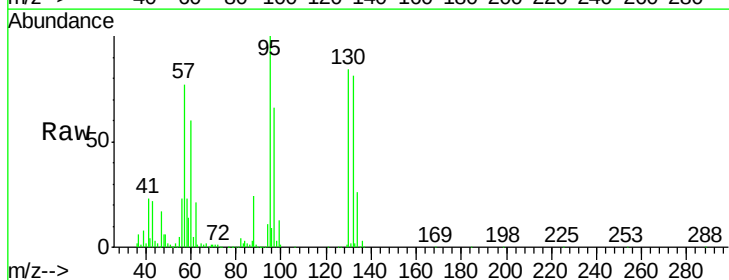
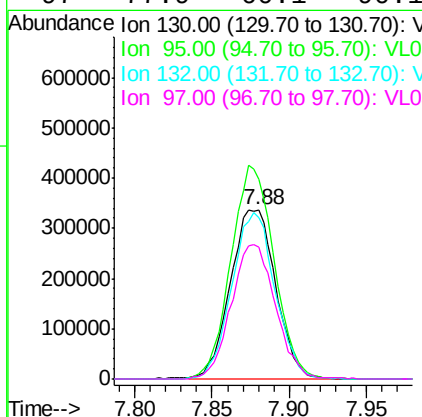
Manual Integrations
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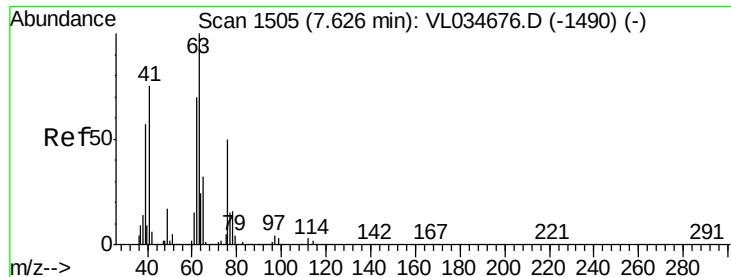
MMDadoda
 2/28/2020 12:32:26 PM



#38
 Trichloroethene
 Concen: 9.779 ppbv
 RT: 7.88 min Scan# 1584
 Delta R.T. 0.03 min
 Lab File: VL034704.D
 Acq: 27 Feb 2020 10:21

Tgt Ion: 130 Resp: 684957
 Ion Ratio Lower Upper
 130 100
 95 118.0 97.1 145.7
 132 95.2 78.3 117.5
 97 77.9 60.1 90.1





#39

1,2-Dichloropropane

Concen: 10.029 ppbv

RT: 7.65 min Scan# 1513

Delta R.T. 0.03 min

Lab File: VL034704.D

Acq: 27 Feb 2020 10:21

Instrument :

MSVOA_L

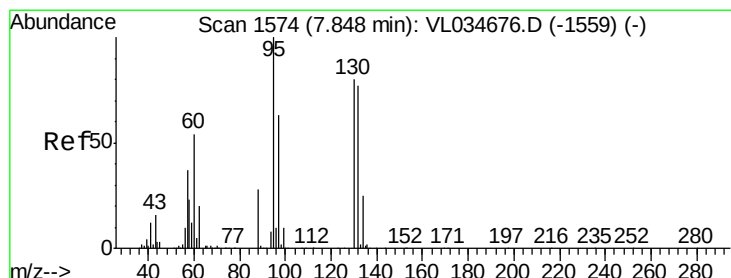
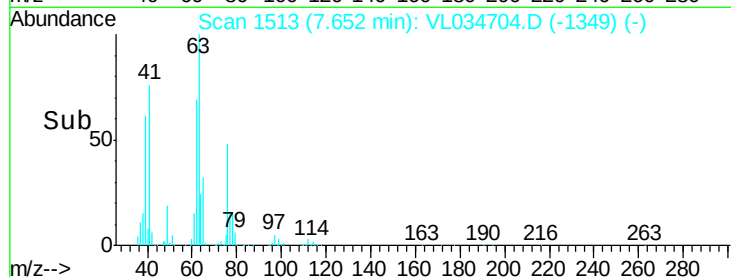
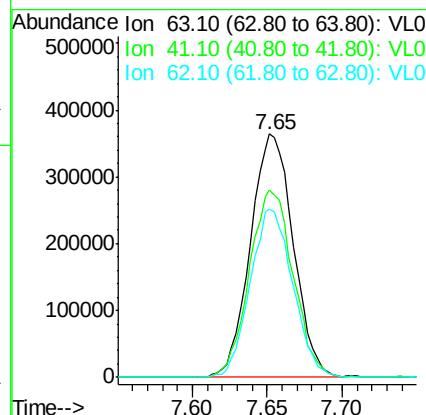
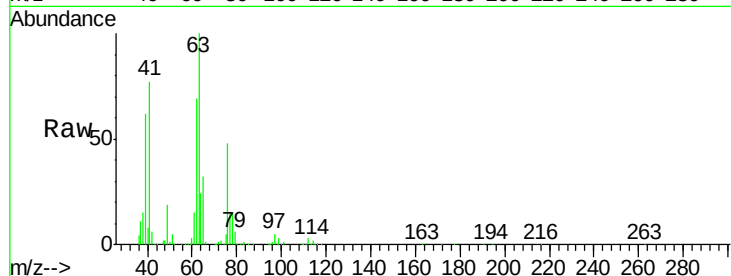
ClientSampleId :

VSTDCCC010

Tot Ion:	63	Resp:	725049
Ion Ratio	Lower	Upper	
63	100		
41	77.1	60.2	90.4
62	69.2	56.3	84.5

Manual Integrations
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#40

1,4-Dioxane

Concen: 10.788 ppbv

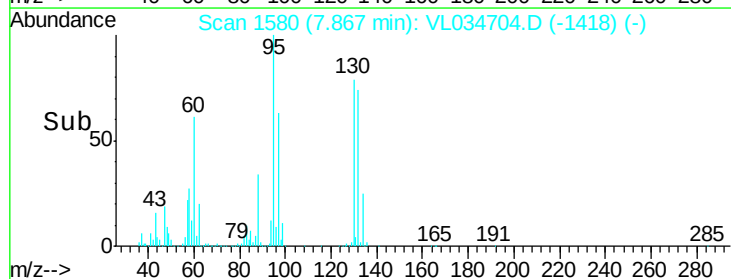
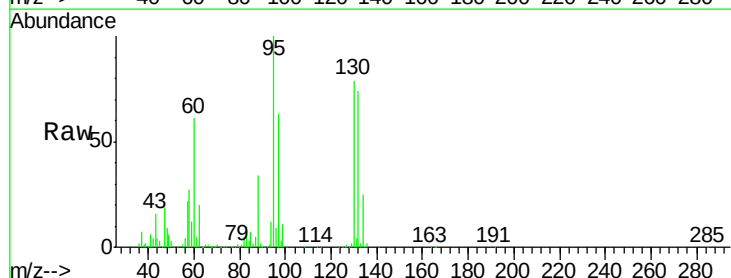
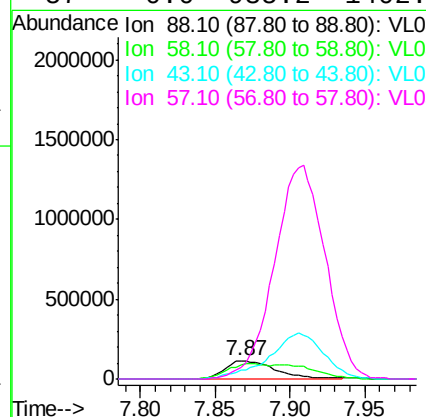
RT: 7.87 min Scan# 1580

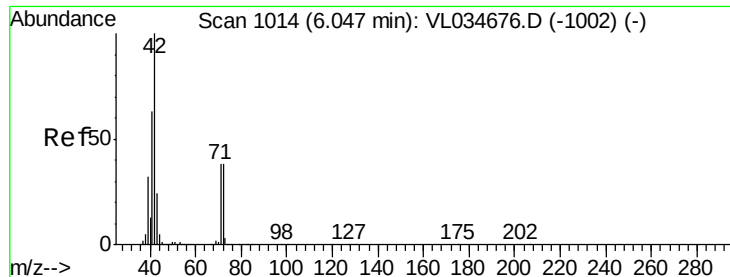
Delta R.T. 0.02 min

Lab File: VL034704.D

Acq: 27 Feb 2020 10:21

Tgt Ion:	88	Resp:	265226
Ion Ratio	Lower	Upper	
88	100		
58	138.3	104.6	156.8
43	0.0	212.9	319.3#
57	0.0	935.2	1402.8#





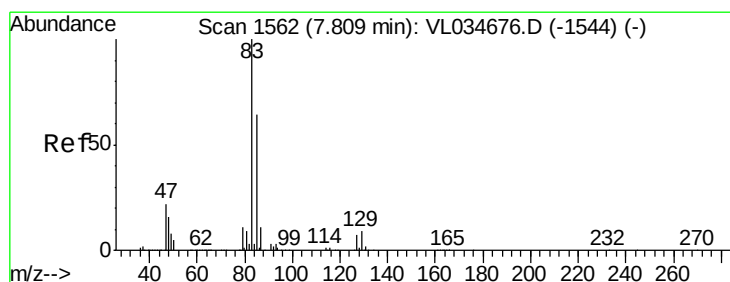
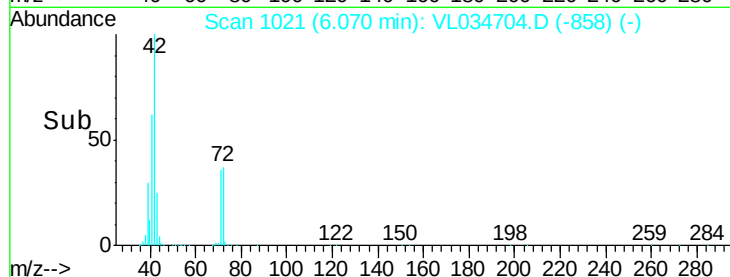
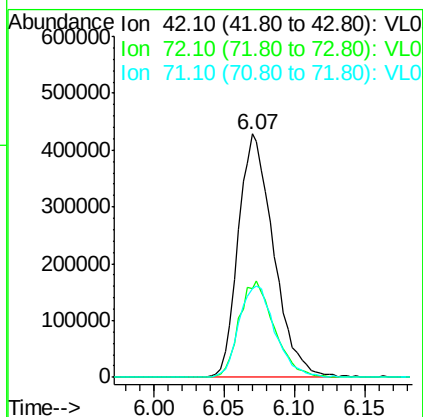
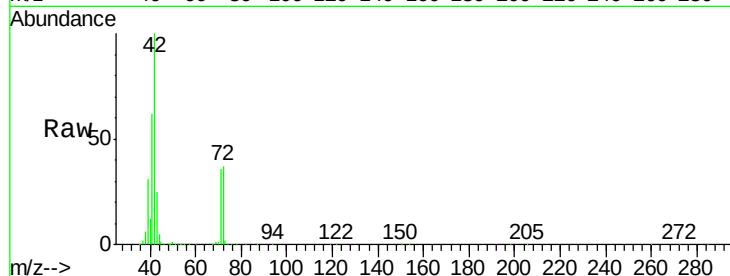
#41
Tetrahydrofuran
Concen: 10.743 ppbv
RT: 6.07 min Scan# 1021
Delta R.T. 0.02 min
Lab File: VL034704.D
Acq: 27 Feb 2020 10:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.6	31.7	47.5
71	38.6	30.7	46.1

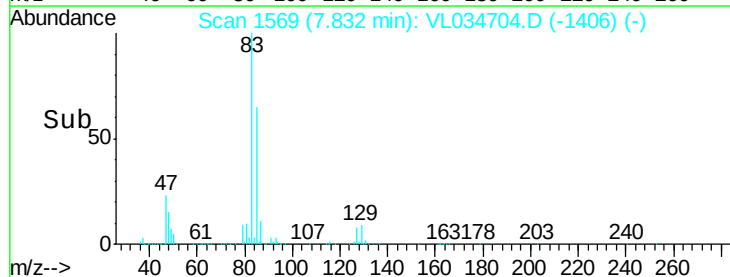
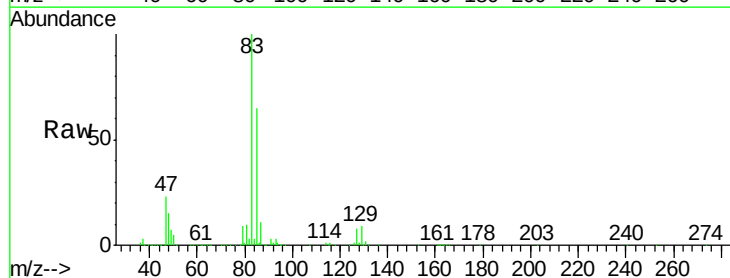
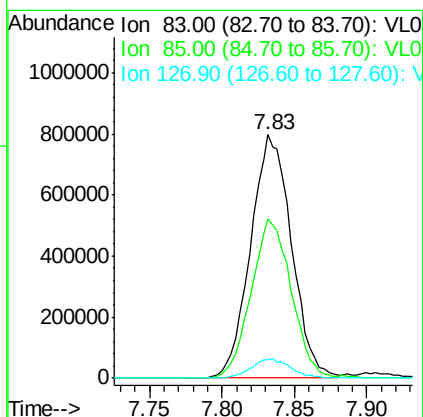
Manual Integrations
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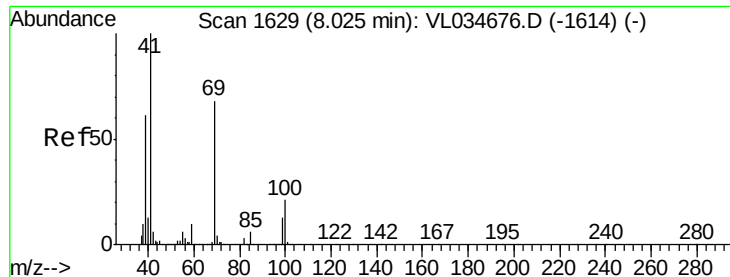
MMDadoda
2/28/2020 12:32:26 PM



#42
Bromodichloromethane
Concen: 10.429 ppbv
RT: 7.83 min Scan# 1569
Delta R.T. 0.02 min
Lab File: VL034704.D
Acq: 27 Feb 2020 10:21

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.2	51.1	76.7
127	7.7	5.8	8.8





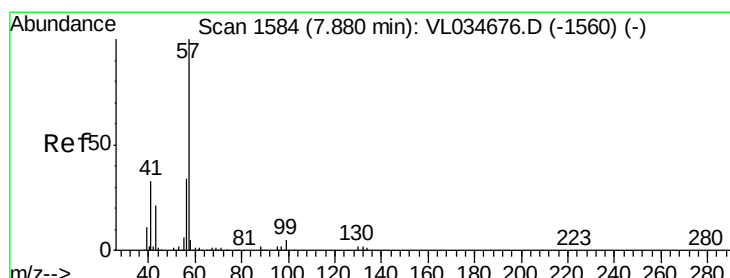
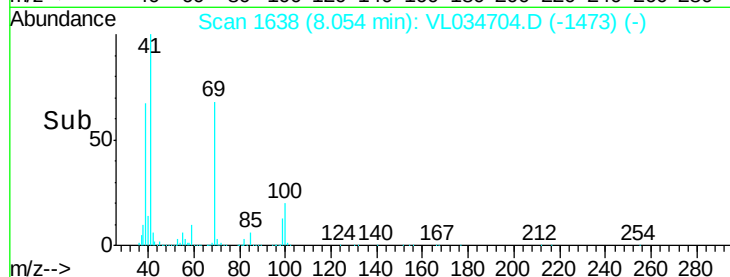
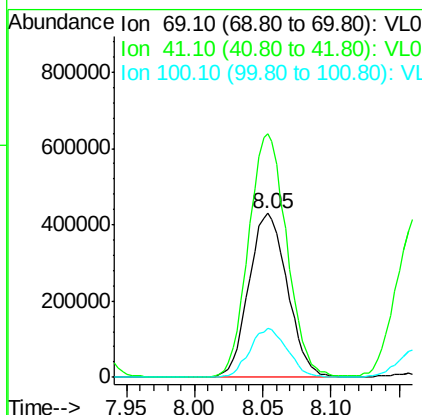
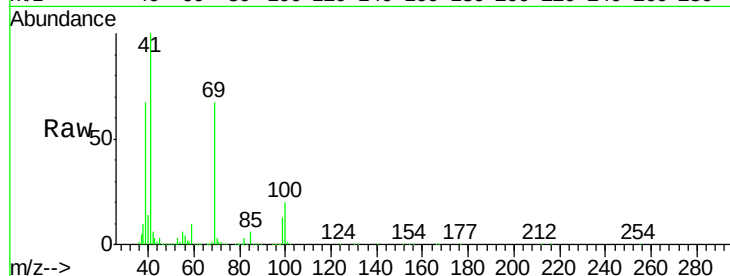
#43
Methyl Methacrylate
Concen: 11.044 ppbv
RT: 8.05 min Scan# 1638
Delta R.T. 0.03 min
Lab File: VL034704.D
Acq: 27 Feb 2020 10:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
69	100		
41	147.2	118.2	177.2
100	29.2	24.2	36.2

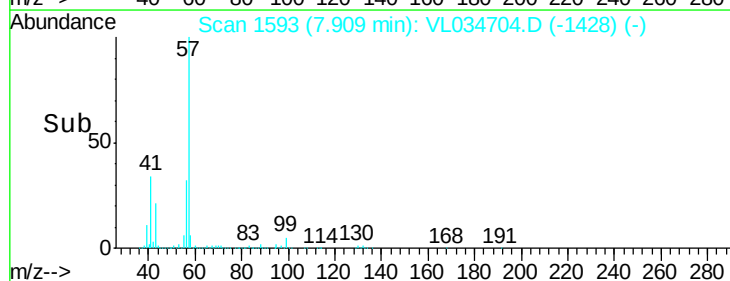
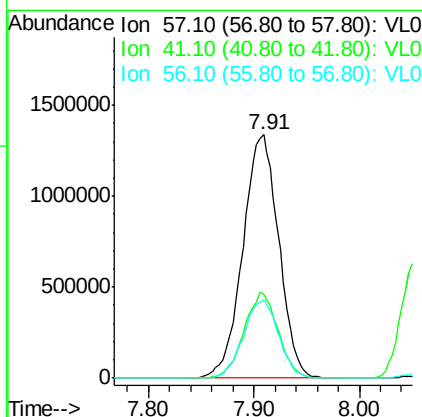
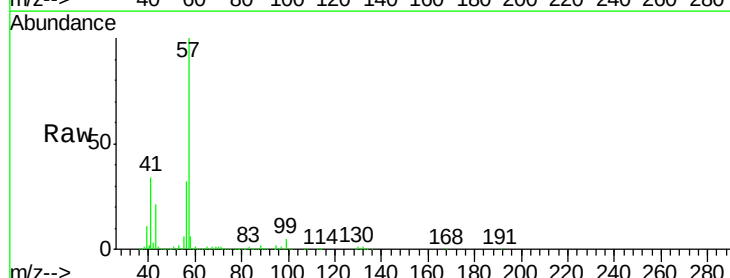
Manual Integrations
APPROVED

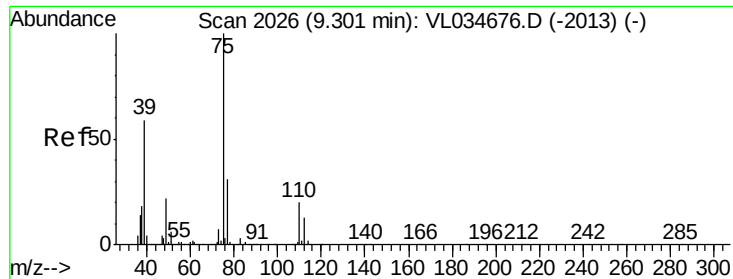
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#44
2,2,4-Trimethylpentane
Concen: 9.962 ppbv
RT: 7.91 min Scan# 1593
Delta R.T. 0.03 min
Lab File: VL034704.D
Acq: 27 Feb 2020 10:21

Tgt Ion	Ratio	Lower	Upper
57	100		
41	33.6	26.0	39.0
56	31.5	25.6	38.4





#45

t-1,3-Dichloropropene

Concen: 11.916 ppbv

RT: 9.33 min Scan# 2034

Delta R.T. 0.03 min

Lab File: VL034704.D

Acq: 27 Feb 2020 10:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 75 Resp: 993901

Ion Ratio Lower Upper

75 100

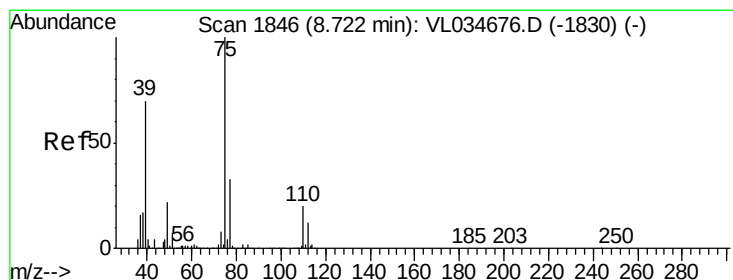
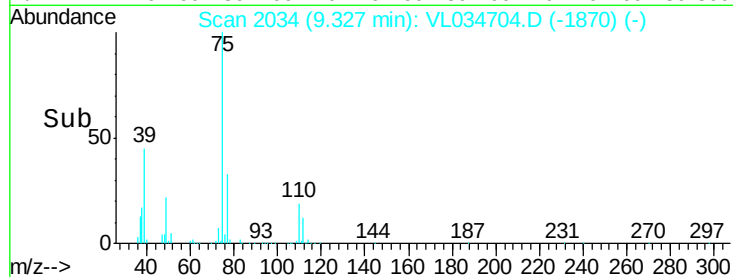
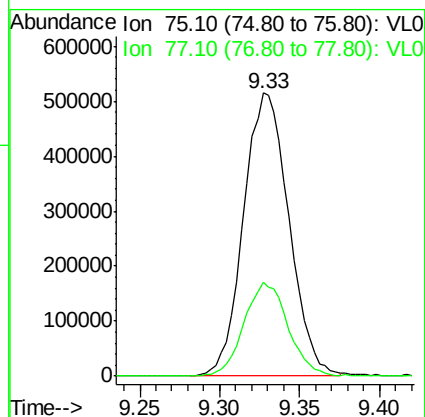
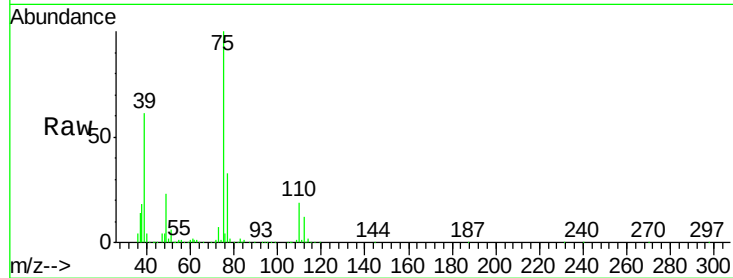
77 33.1 25.3 37.9

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#46

cis-1,3-Dichloropropene

Concen: 11.479 ppbv

RT: 8.75 min Scan# 1854

Delta R.T. 0.03 min

Lab File: VL034704.D

Acq: 27 Feb 2020 10:21

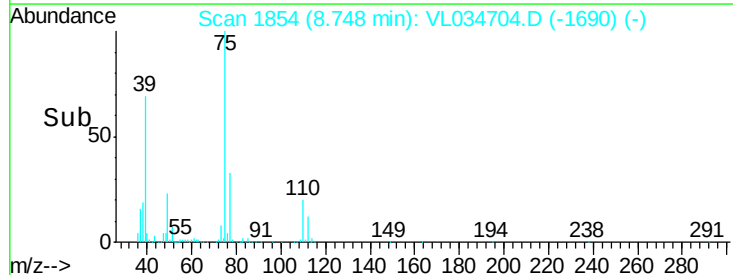
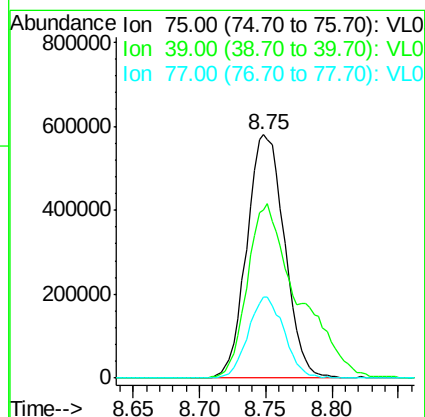
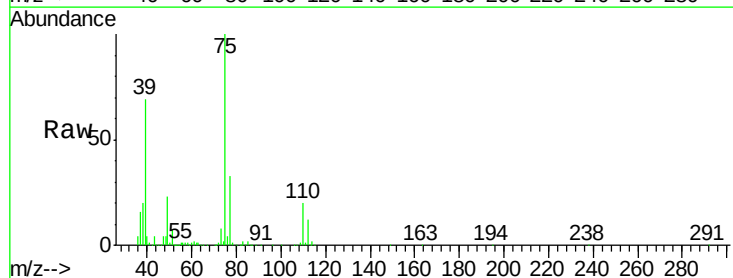
Tgt Ion: 75 Resp: 1148219

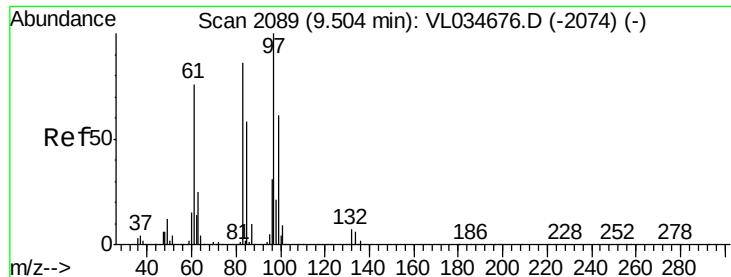
Ion Ratio Lower Upper

75 100

39 69.1 55.7 83.5

77 33.1 26.3 39.5





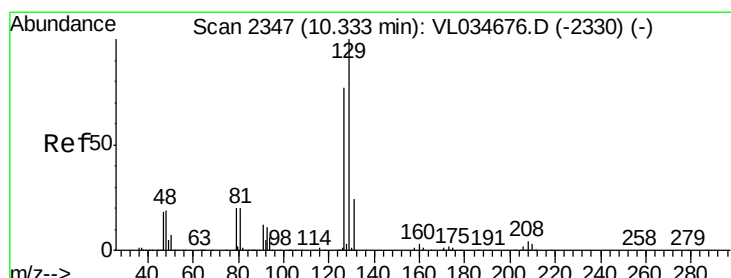
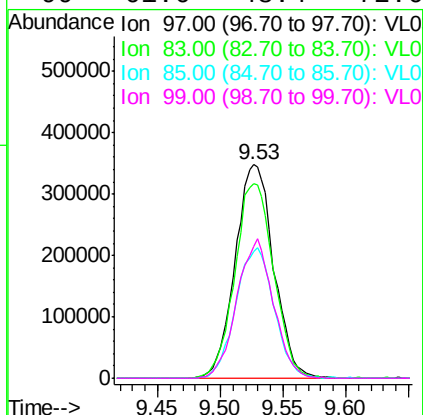
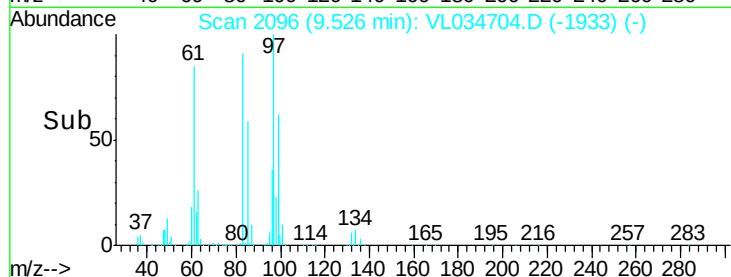
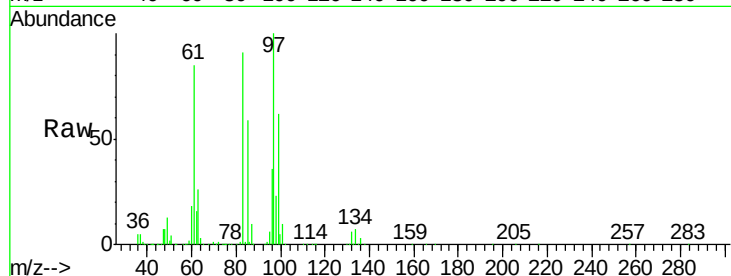
#47
 1,1,2-Trichloroethane
 Concen: 10.009 ppbv
 RT: 9.53 min Scan# 2096
 Delta R.T. 0.02 min
 Lab File: VL034704.D
 Acq: 27 Feb 2020 10:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	91.0	69.4	104.0	
85	59.0	46.4	69.6	
99	61.6	48.4	72.6	

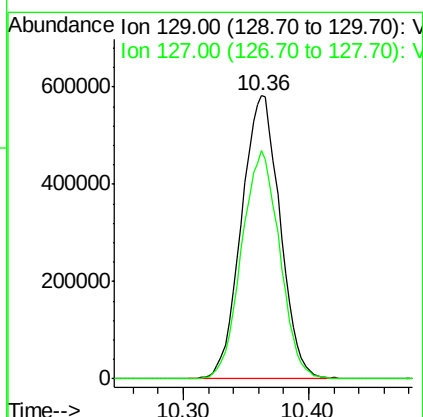
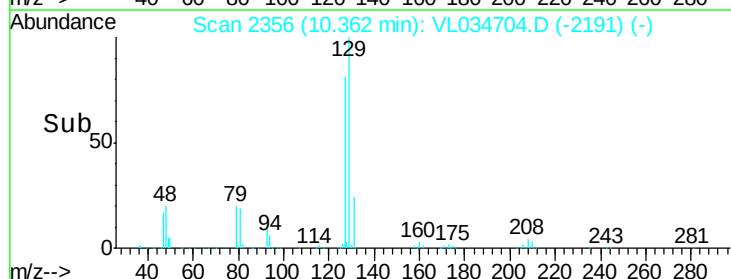
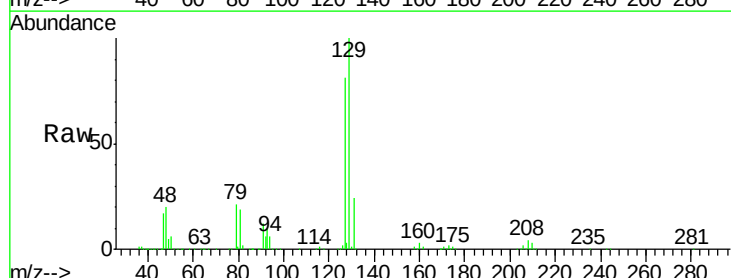
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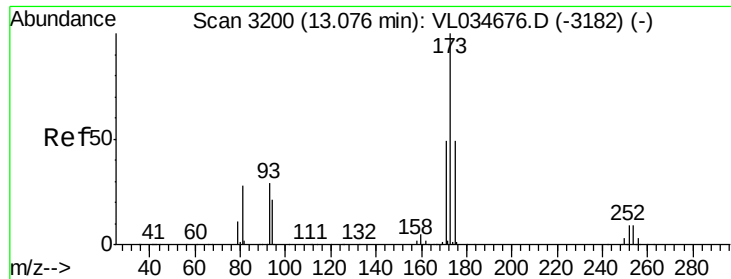
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#48
 Dibromochloromethane
 Concen: 10.790 ppbv
 RT: 10.36 min Scan# 2356
 Delta R.T. 0.03 min
 Lab File: VL034704.D
 Acq: 27 Feb 2020 10:21

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	79.5	39.3	117.8	





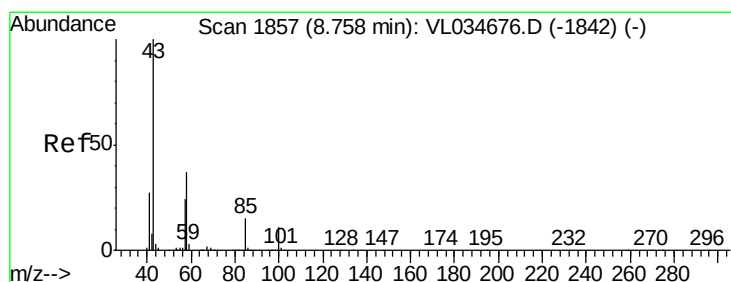
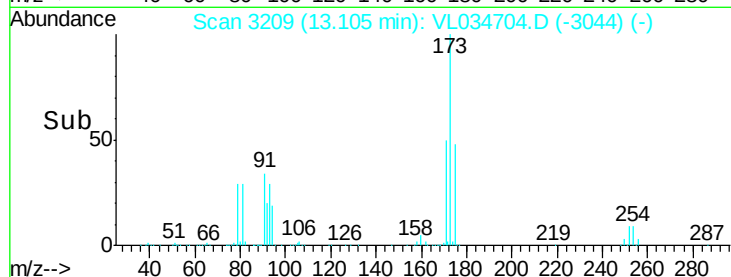
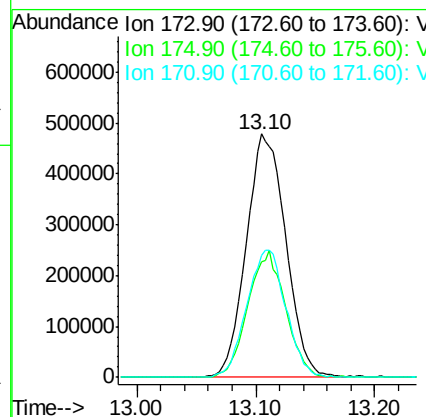
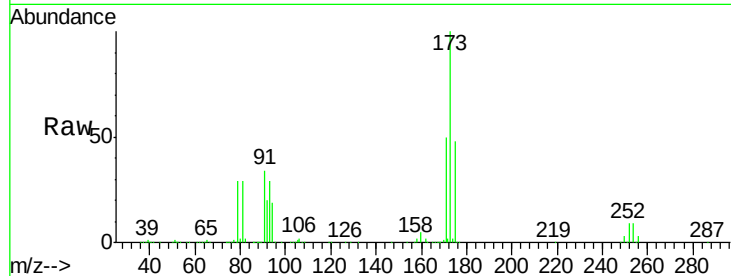
#49
Bromoform
Concen: 11.003 ppbv
RT: 13.10 min Scan# 3209
Delta R.T. 0.03 min
Lab File: VL034704.D
Acq: 27 Feb 2020 10:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:173 Resp: 1100313
Ion Ratio Lower Upper
173 100
175 49.7 38.6 58.0
171 51.9 41.5 62.3

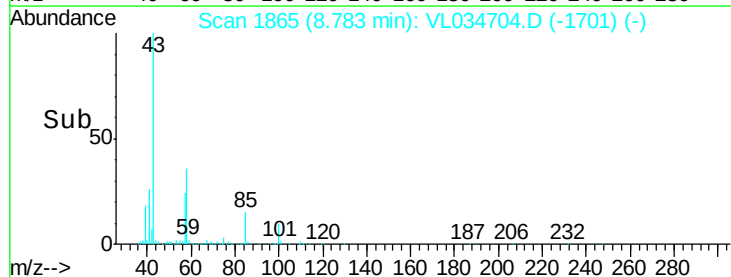
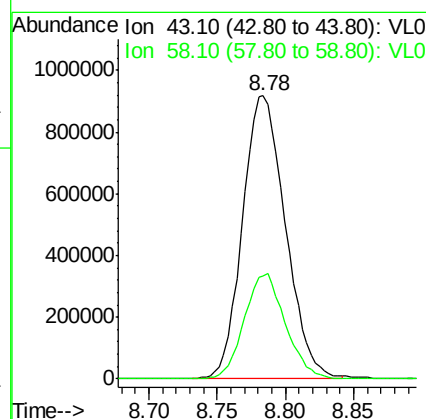
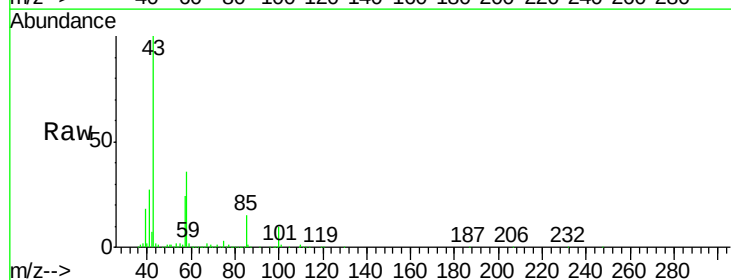
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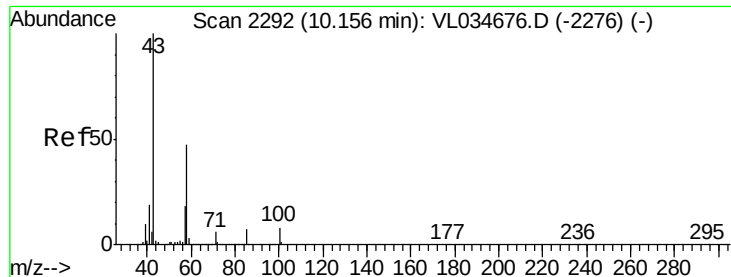
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 10.669 ppbv
RT: 8.78 min Scan# 1865
Delta R.T. 0.03 min
Lab File: VL034704.D
Acq: 27 Feb 2020 10:21

Tgt Ion: 43 Resp: 2001277
Ion Ratio Lower Upper
43 100
58 35.8 29.0 43.6





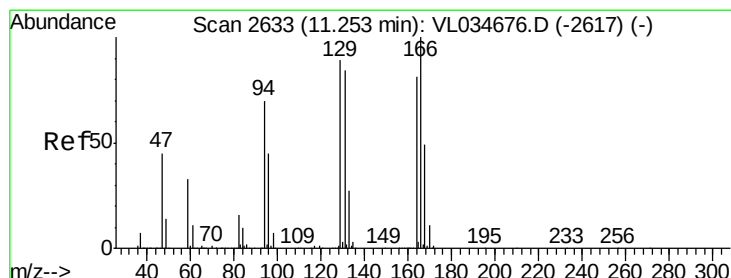
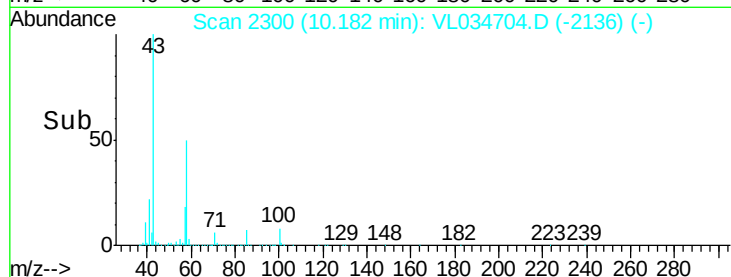
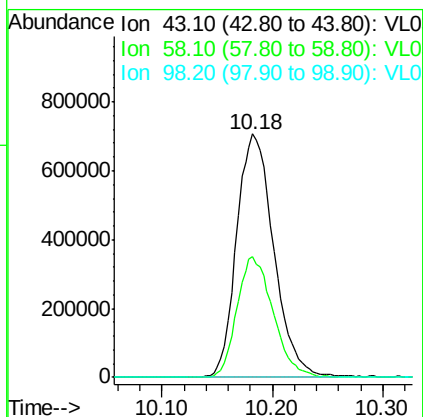
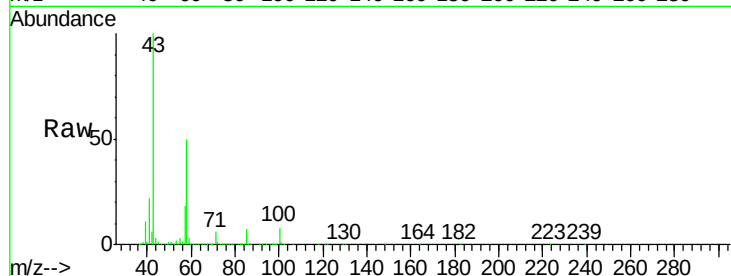
#51
2-Hexanone
Concen: 11.174 ppbv
RT: 10.18 min Scan# 2300
Delta R.T. 0.03 min
Lab File: VL034704.D
Acq: 27 Feb 2020 10:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 1649440
Ion Ratio Lower Upper
43 100
58 48.6 39.4 59.0
98 0.4 0.2 0.2#

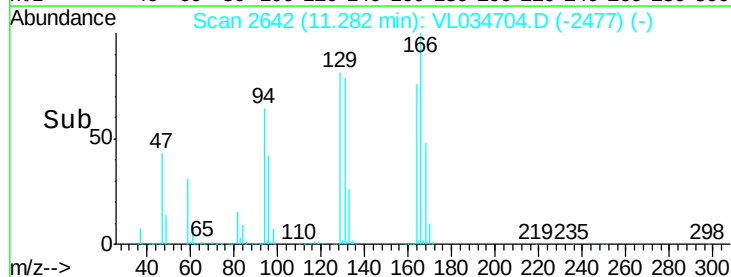
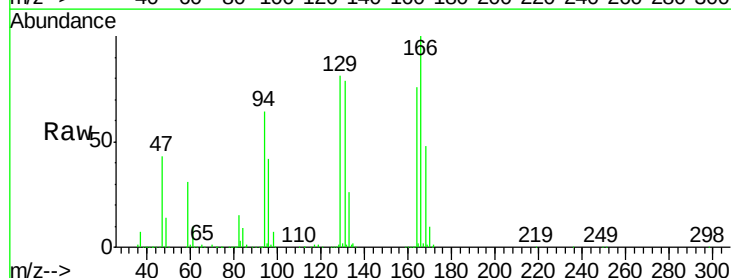
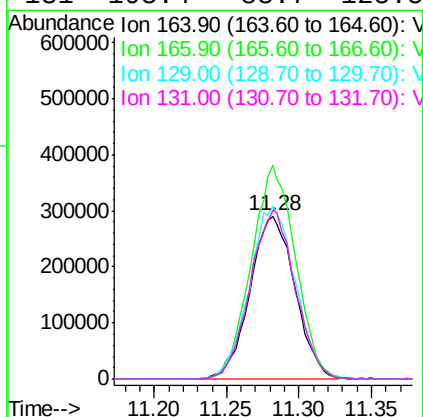
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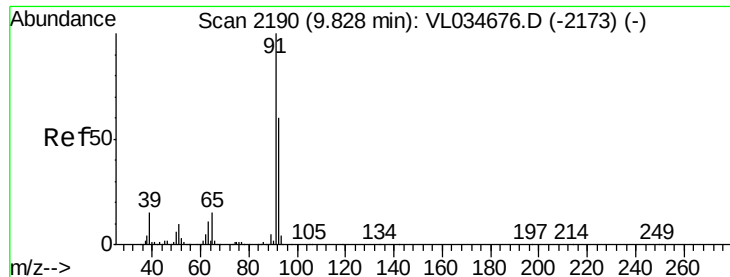
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#52
Tetrachloroethene
Concen: 9.392 ppbv
RT: 11.28 min Scan# 2642
Delta R.T. 0.03 min
Lab File: VL034704.D
Acq: 27 Feb 2020 10:21

Tgt Ion: 164 Resp: 625599
Ion Ratio Lower Upper
164 100
166 131.0 99.2 148.8
129 106.3 88.0 132.0
131 103.4 83.7 125.5





#53

Toluene

Concen: 10.674 ppbv

RT: 9.86 min Scan# 2199

Delta R.T. 0.03 min

Lab File: VL034704.D

Acq: 27 Feb 2020 10:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 2063088

Ion Ratio Lower Upper

91 100

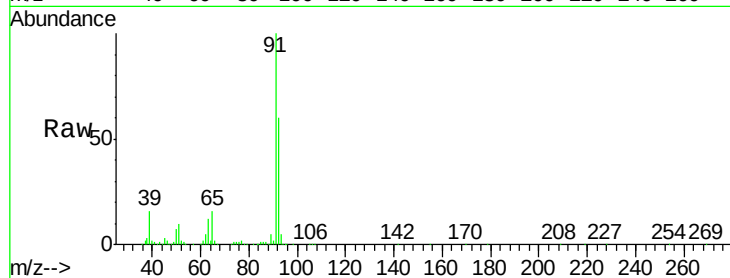
92 61.1 48.5 72.7

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.86

1000000

800000

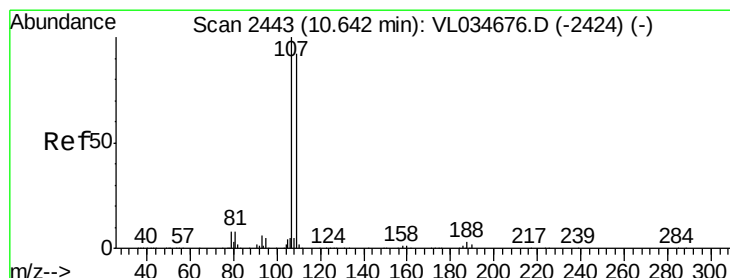
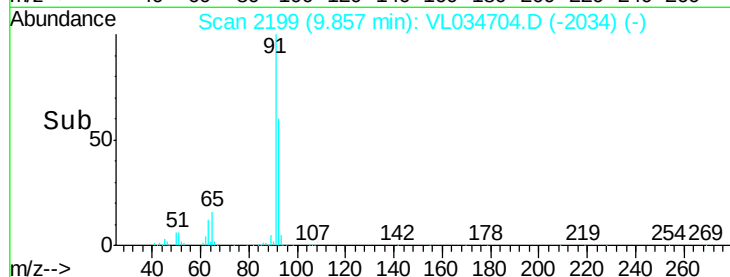
600000

400000

200000

0

Time--> 9.75 9.80 9.85 9.90 9.95



#54

1,2-Dibromoethane

Concen: 10.392 ppbv

RT: 10.67 min Scan# 2452

Delta R.T. 0.03 min

Lab File: VL034704.D

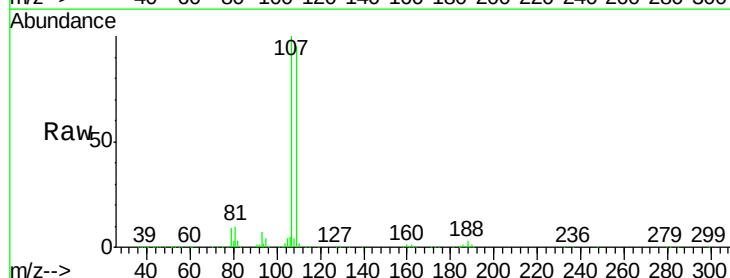
Acq: 27 Feb 2020 10:21

Tgt Ion:107 Resp: 1149889

Ion Ratio Lower Upper

107 100

109 95.3 73.9 110.9



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

10.67

600000

500000

400000

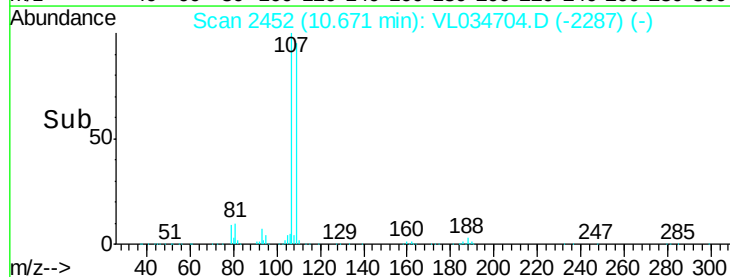
300000

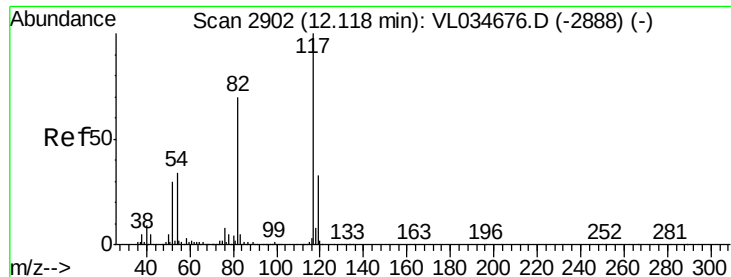
200000

100000

0

Time--> 10.60 10.70





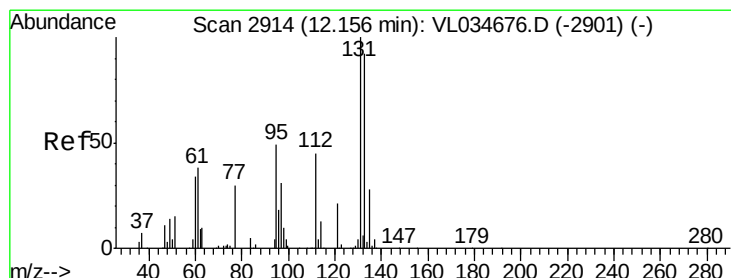
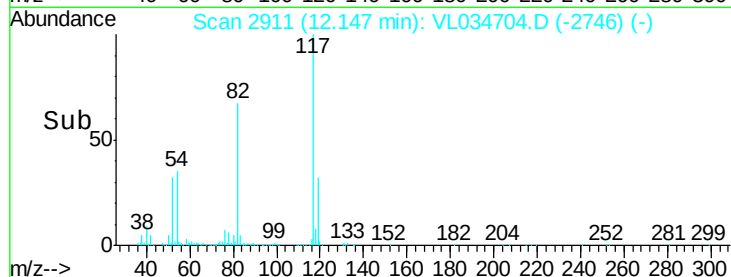
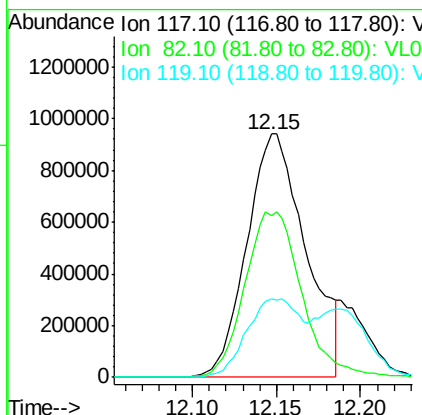
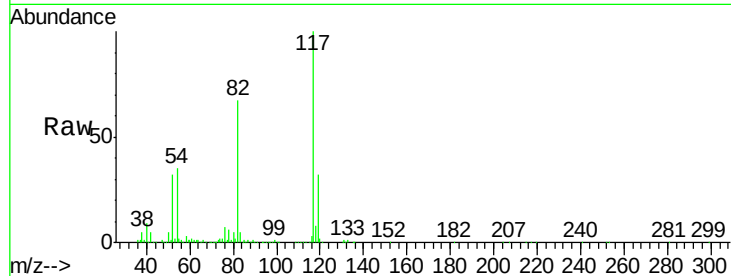
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.15 min Scan# 2911
Delta R.T. 0.03 min
Lab File: VL034704.D
Acq: 27 Feb 2020 10:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:117 Resp: 2303778
Ion Ratio Lower Upper
117 100
82 65.7 54.1 81.1
119 30.0 27.6 41.4

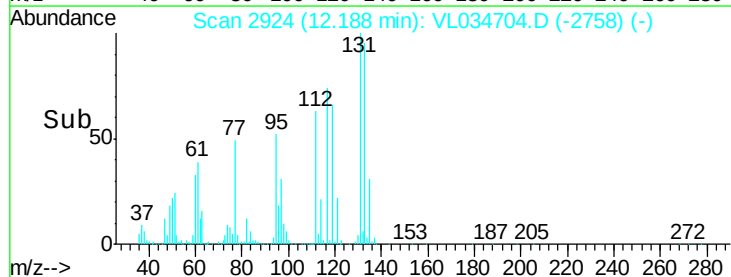
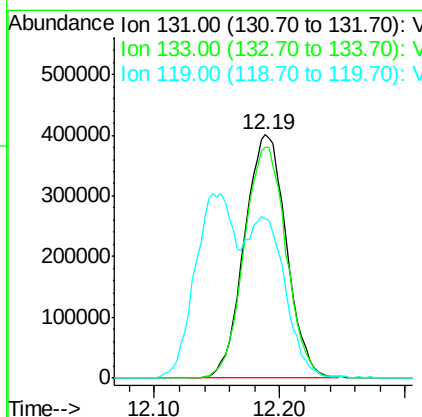
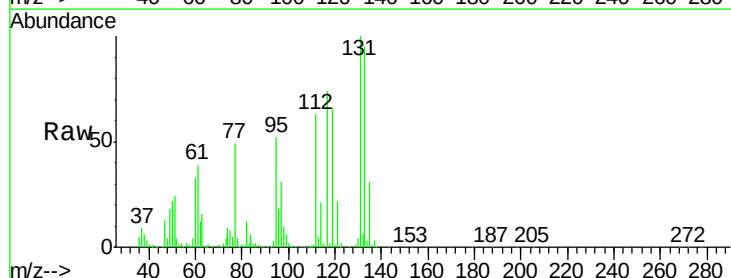
Manual Integrations
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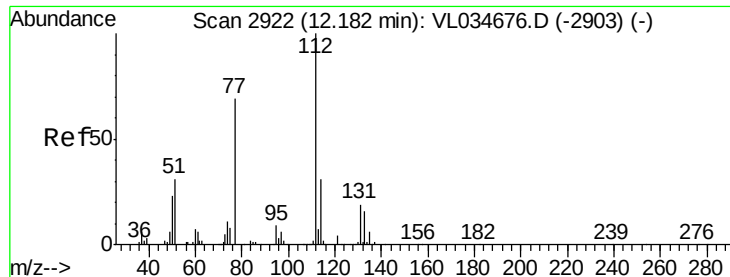
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.489 ppbv
RT: 12.19 min Scan# 2924
Delta R.T. 0.03 min
Lab File: VL034704.D
Acq: 27 Feb 2020 10:21

Tgt Ion:131 Resp: 931009
Ion Ratio Lower Upper
131 100
133 95.0 76.6 114.8
119 51.2 51.3 76.9#





#57

Chlorobenzene

Concen: 9.002 ppbv

RT: 12.21 min Scan# 2931

Delta R.T. 0.03 min

Lab File: VL034704.D

Acq: 27 Feb 2020 10:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:112 Resp: 1532842

Ion Ratio Lower Upper

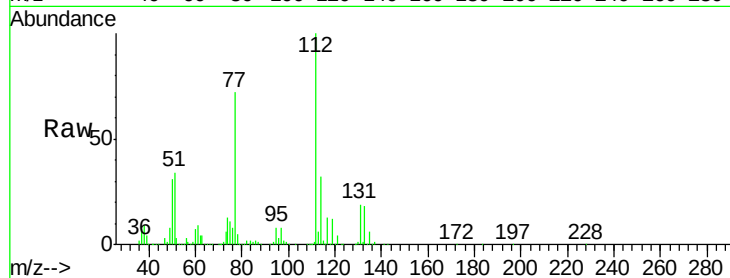
112 100

77 70.9 56.5 84.7

114 31.7 28.1 34.3

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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

800000

600000

400000

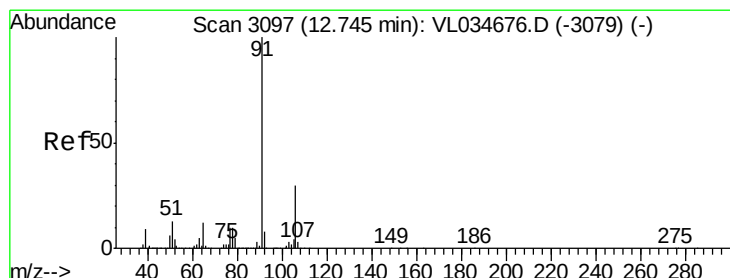
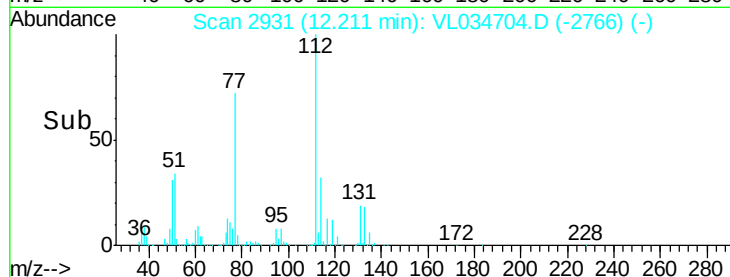
200000

0

12.10

12.20

Time-->



#58

Ethyl Benzene

Concen: 9.942 ppbv

RT: 12.77 min Scan# 3106

Delta R.T. 0.03 min

Lab File: VL034704.D

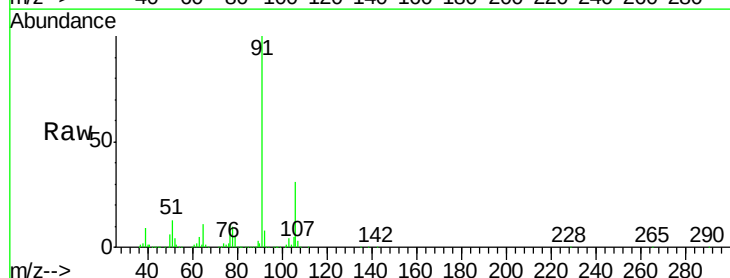
Acq: 27 Feb 2020 10:21

Tgt Ion: 91 Resp: 2771230

Ion Ratio Lower Upper

91 100

106 30.8 24.0 36.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

1000000

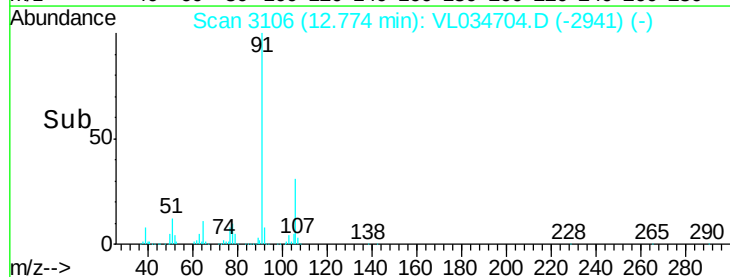
500000

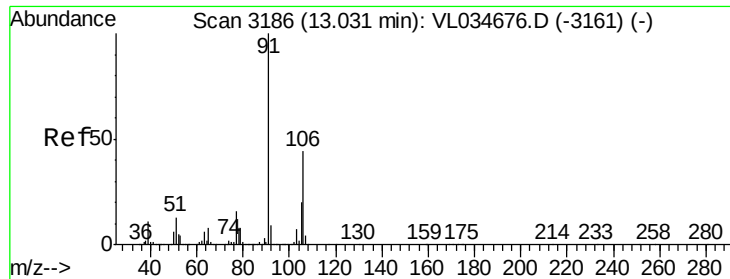
0

12.70

12.80

Time-->





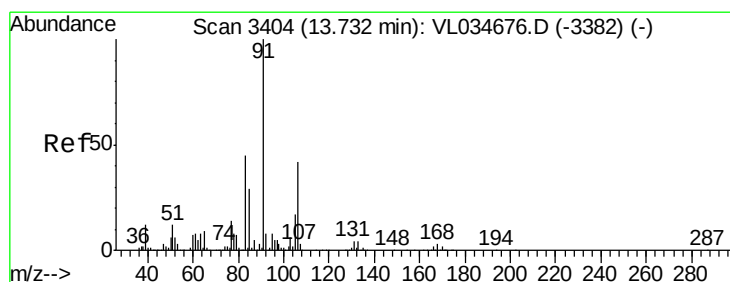
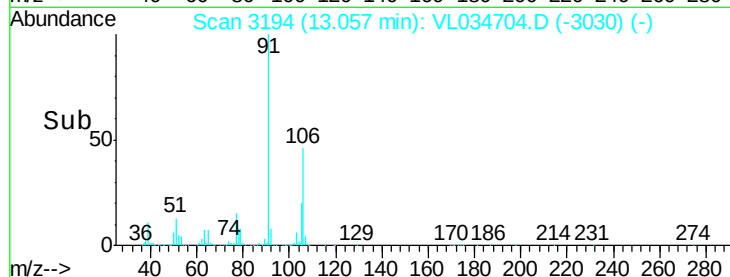
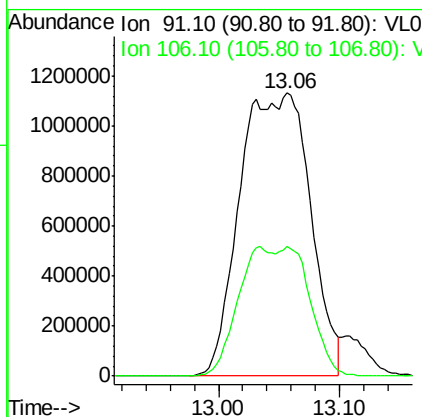
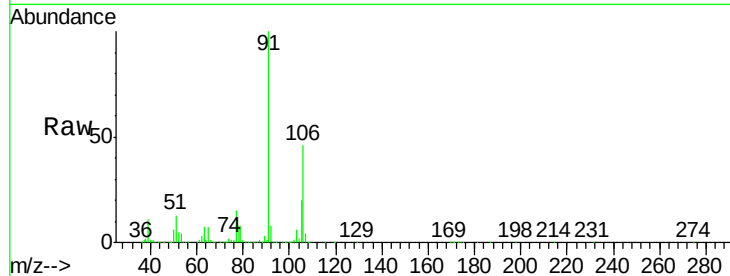
#59
m/p-Xylene
Concen: 18.787 ppbv m
RT: 13.06 min Scan# 3194
Delta R.T. 0.03 min
Lab File: VL034704.D
Acq: 27 Feb 2020 10:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 4567130
Ion Ratio Lower Upper
91 100
106 0.0 35.6 53.4#

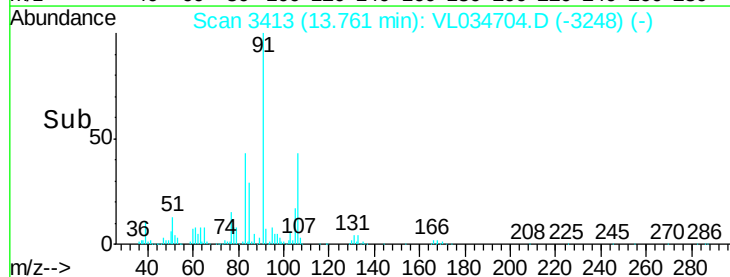
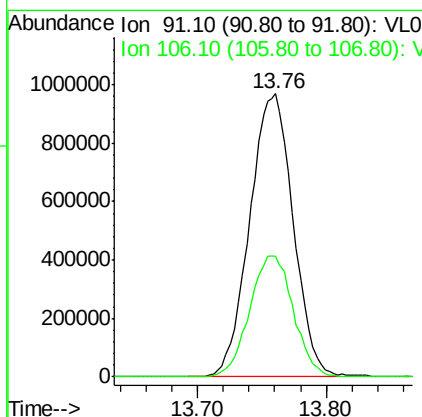
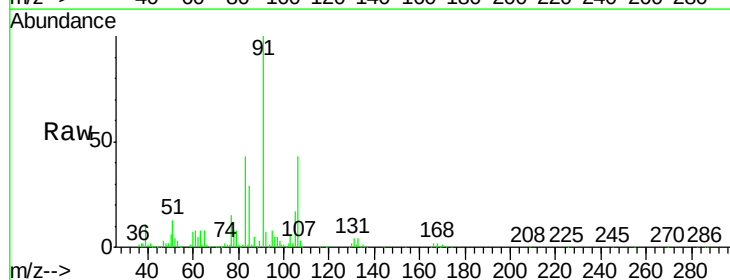
Manual Integrations
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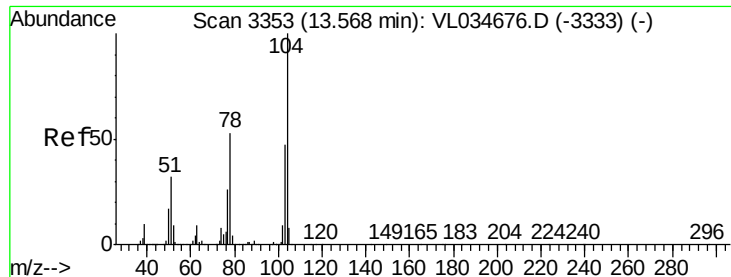
MMDadoda
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#60
o-Xylene
Concen: 9.394 ppbv
RT: 13.76 min Scan# 3413
Delta R.T. 0.03 min
Lab File: VL034704.D
Acq: 27 Feb 2020 10:21

Tgt Ion: 91 Resp: 2266282
Ion Ratio Lower Upper
91 100
106 43.4 21.9 65.5





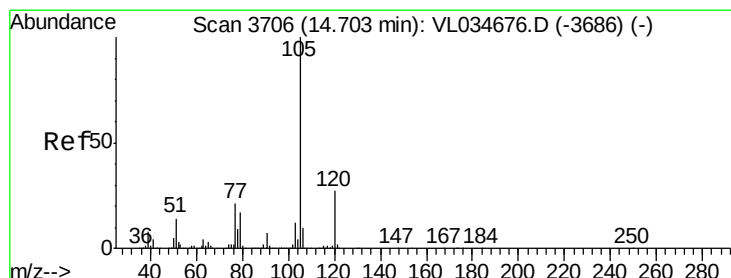
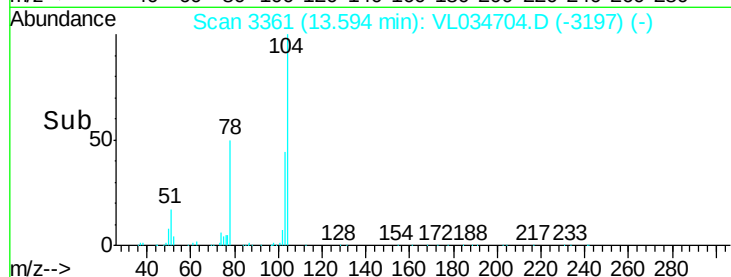
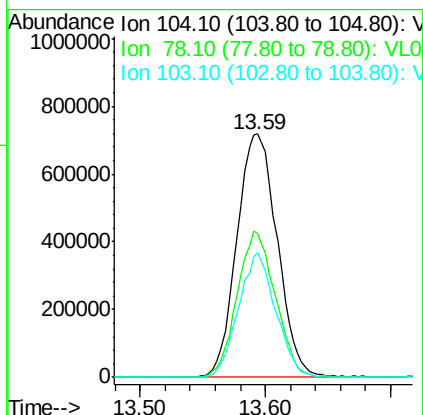
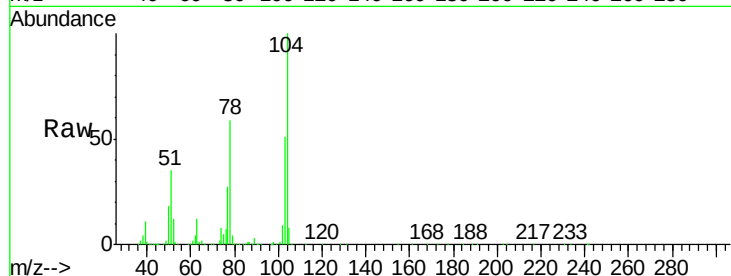
#61
Stvrene
Concen: 10.370 ppbv
RT: 13.59 min Scan# 3361
Delta R.T. 0.03 min
Lab File: VL034704.D
Acq: 27 Feb 2020 10:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
104	100		
78	57.2	44.2	66.4
103	47.4	37.4	56.0

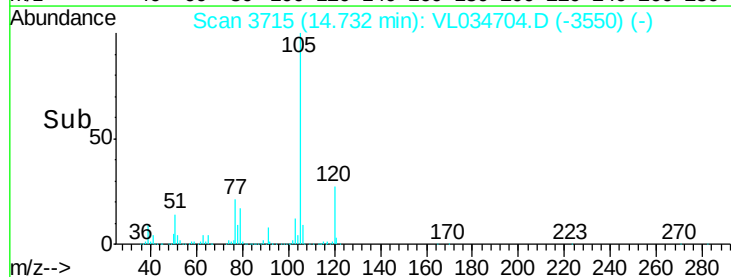
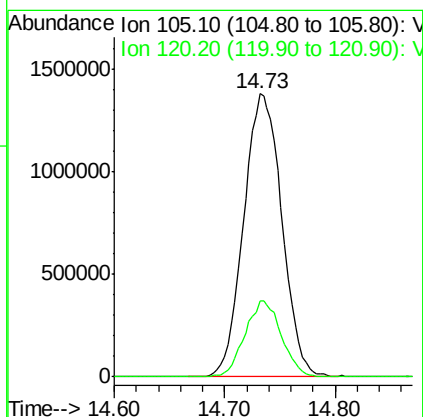
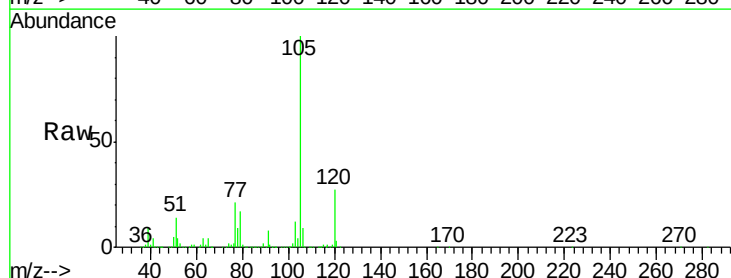
Manual Integrations
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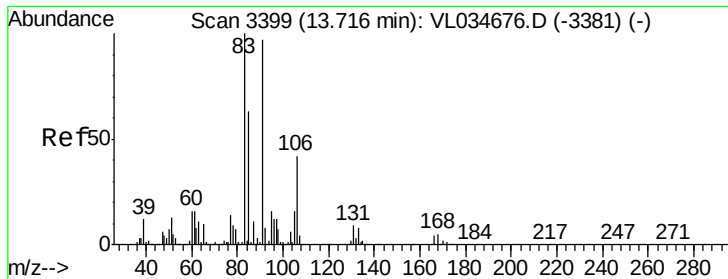
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#62
Isopropylbenzene
Concen: 9.373 ppbv
RT: 14.73 min Scan# 3715
Delta R.T. 0.03 min
Lab File: VL034704.D
Acq: 27 Feb 2020 10:21

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.7	20.2	30.4





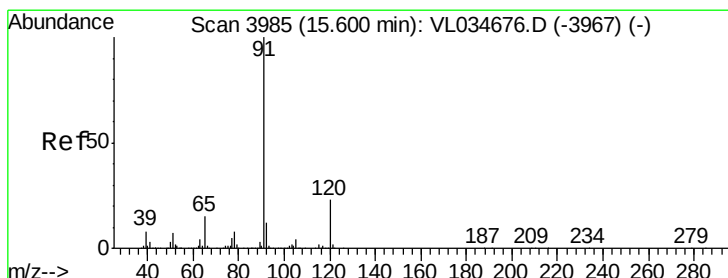
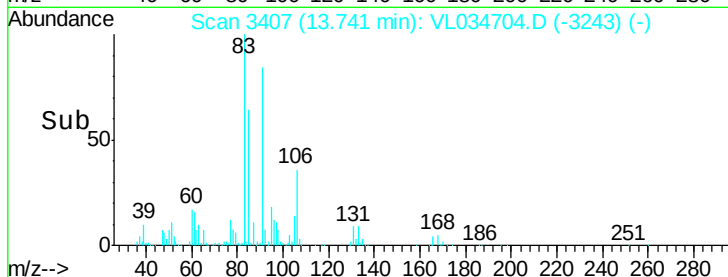
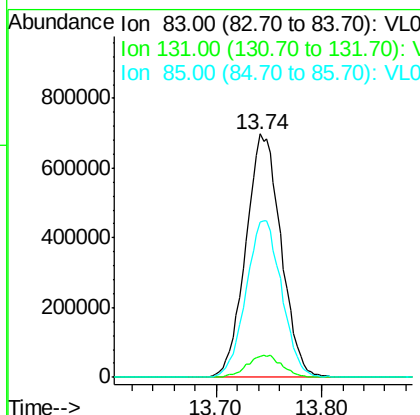
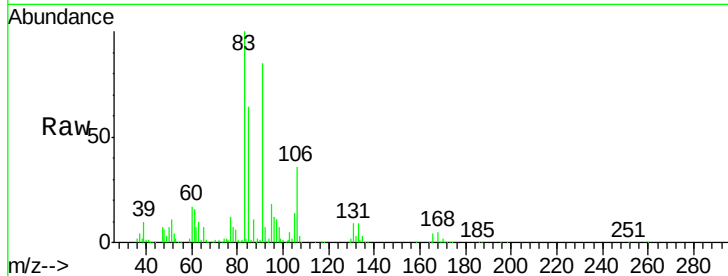
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.623 ppbv
 RT: 13.74 min Scan# 3407
 Delta R.T. 0.03 min
 Lab File: VL034704.D
 Acq: 27 Feb 2020 10:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	83	Resp	1621349
Ion Ratio	100	Lower	Upper
83	100		
131	9.1	4.4	13.2
85	65.4	32.5	97.5

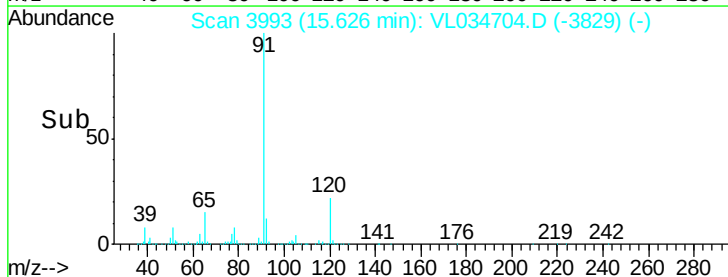
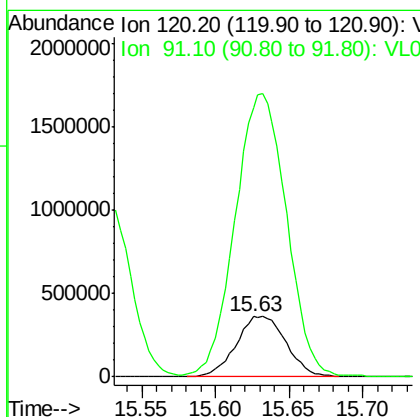
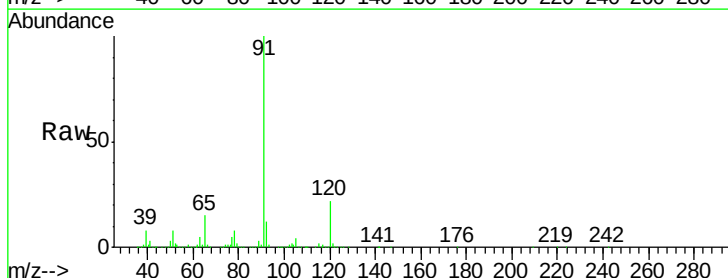
Manual Integrations
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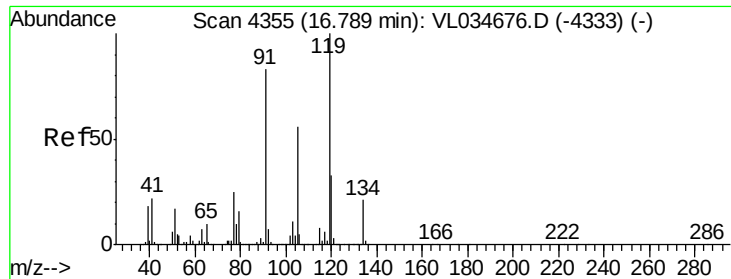
MMDadoda
 2/28/2020 12:32:26 PM



#64
 n-propylbenzene
 Concen: 9.404 ppbv m
 RT: 15.63 min Scan# 3993
 Delta R.T. 0.03 min
 Lab File: VL034704.D
 Acq: 27 Feb 2020 10:21

Tgt Ion	120	Resp	853175
Ion Ratio	100	Lower	Upper
120	100		
91	483.4	369.8	554.8





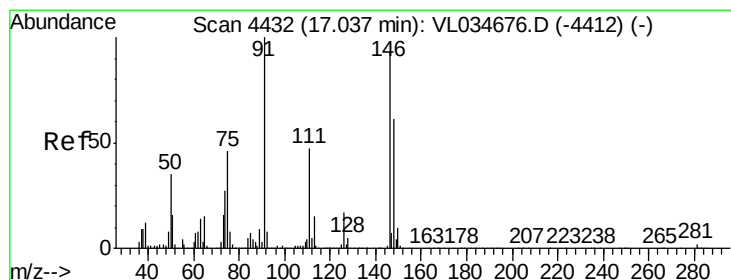
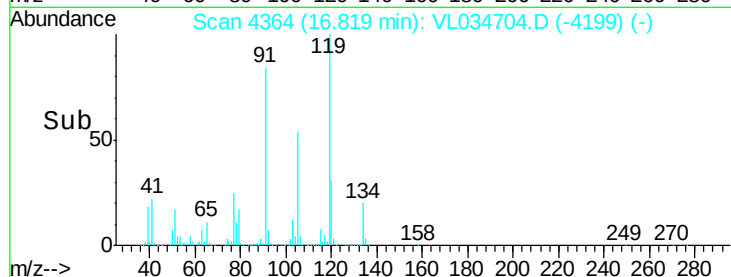
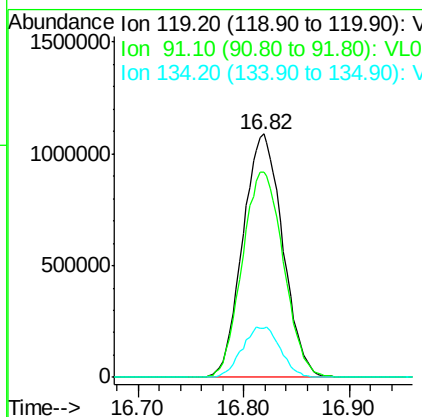
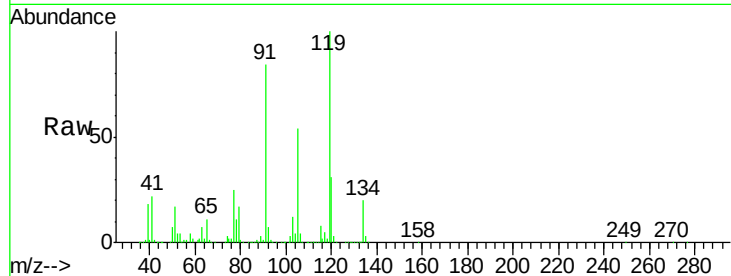
#65
 tert-Butylbenzene
 Concen: 9.432 ppbv
 RT: 16.82 min Scan# 4364
 Delta R.T. 0.03 min
 Lab File: VL034704.D
 Acq: 27 Feb 2020 10:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 119 Resp: 2866069
 Ion Ratio Lower Upper
 119 100
 91 87.4 69.1 103.7
 134 20.0 15.8 23.8

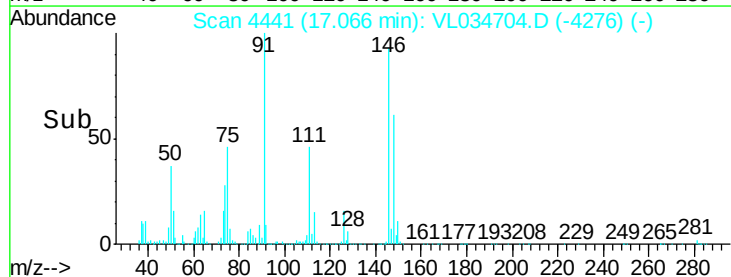
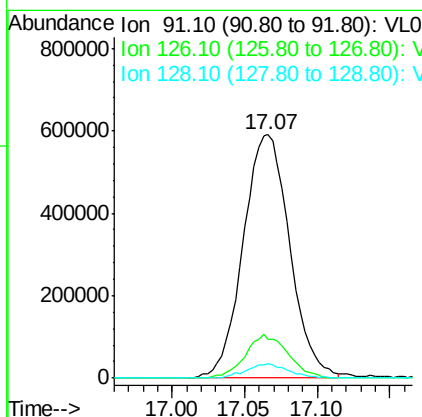
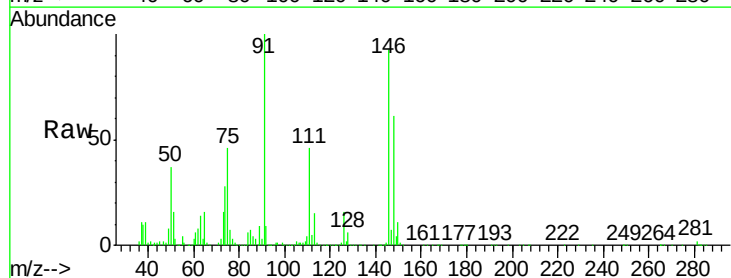
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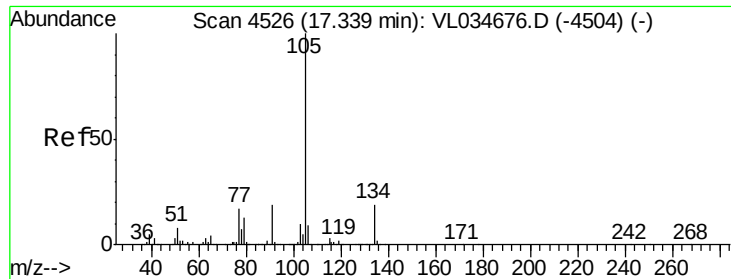
MMDadoda
 2/28/2020 12:32:26 PM



#66
 Benzyl Chloride
 Concen: 11.572 ppbv
 RT: 17.07 min Scan# 4441
 Delta R.T. 0.03 min
 Lab File: VL034704.D
 Acq: 27 Feb 2020 10:21

Tgt Ion: 91 Resp: 1311611
 Ion Ratio Lower Upper
 91 100
 126 16.6 13.5 20.3
 128 5.3 4.2 6.4





#67

sec-Butylbenzene

Concen: 9.337 ppbv

RT: 17.37 min Scan# 4536

Delta R.T. 0.03 min

Lab File: VL034704.D

Acq: 27 Feb 2020 10:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 105 Resp: 4082689

Ion Ratio Lower Upper

105 100

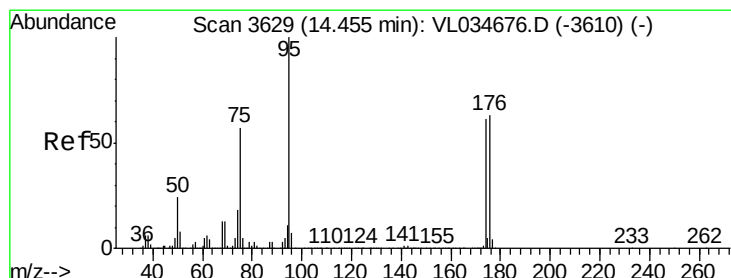
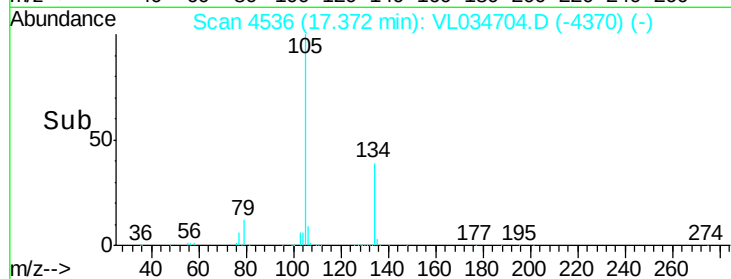
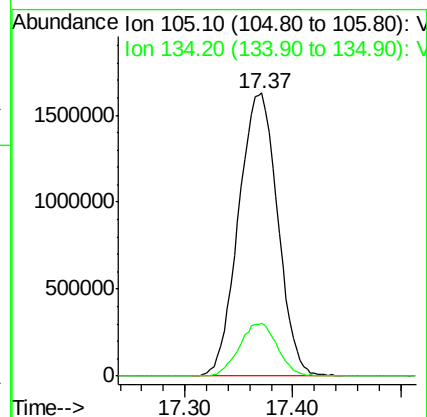
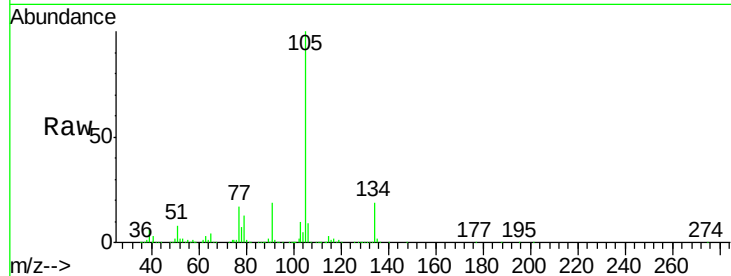
134 18.3 14.8 22.2

Manual Integrations

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.633 ppbv

RT: 14.49 min Scan# 3639

Delta R.T. 0.03 min

Lab File: VL034704.D

Acq: 27 Feb 2020 10:21

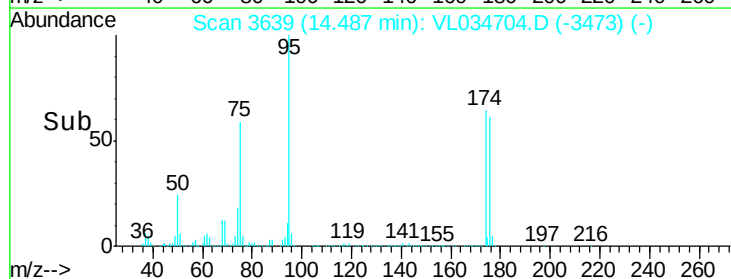
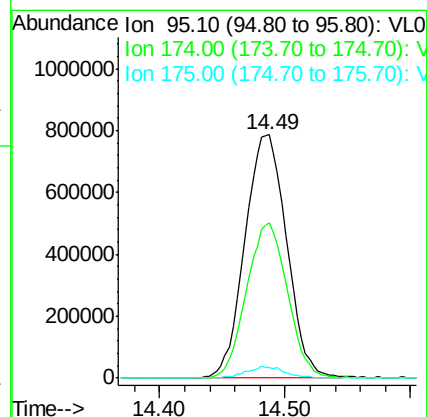
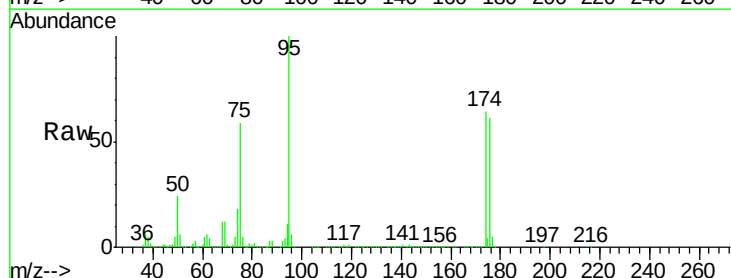
Tgt Ion: 95 Resp: 1819618

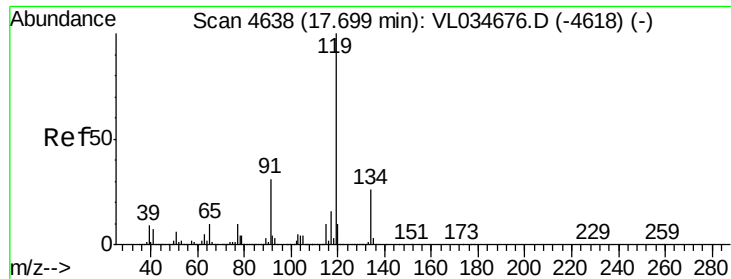
Ion Ratio Lower Upper

95 100

174 62.6 50.7 76.1

175 4.4 3.9 5.9





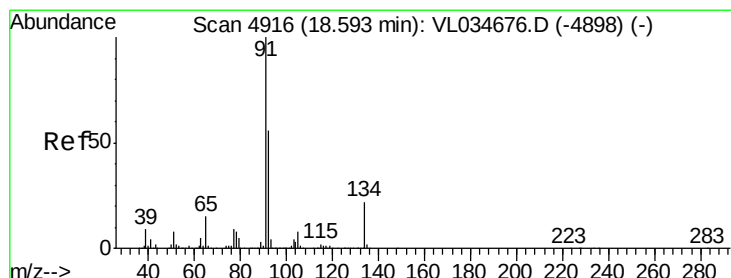
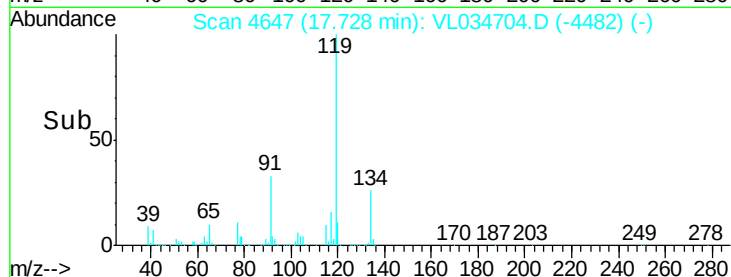
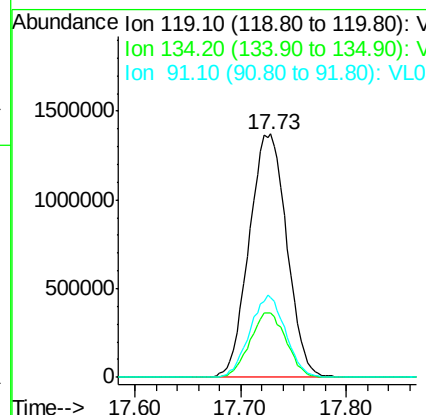
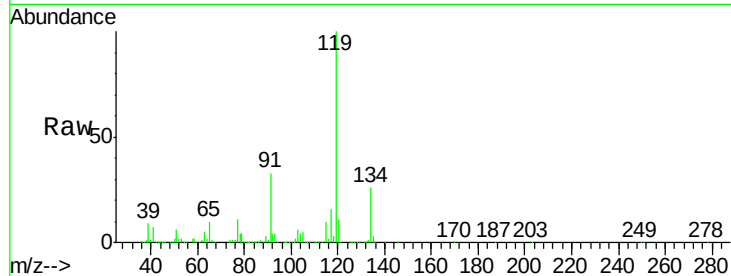
#69
 p-Isopropyltoluene
 Concen: 9.482 ppbv
 RT: 17.73 min Scan# 4647
 Delta R.T. 0.03 min
 Lab File: VL034704.D
 Acq: 27 Feb 2020 10:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.6	20.6	31.0
91	31.7	25.3	37.9

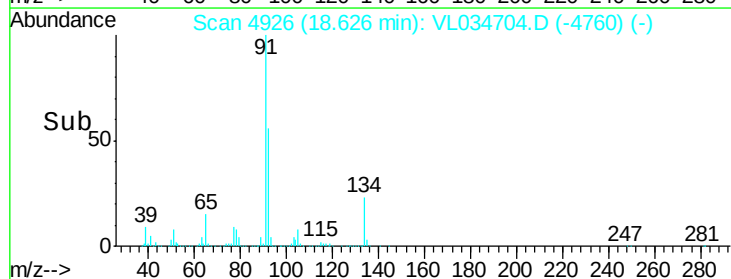
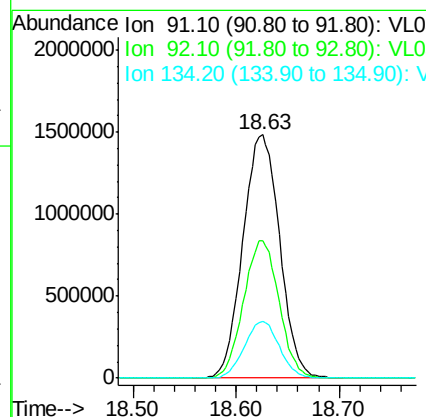
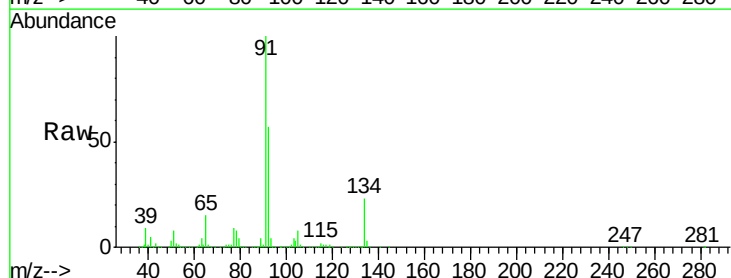
Manual Integrations
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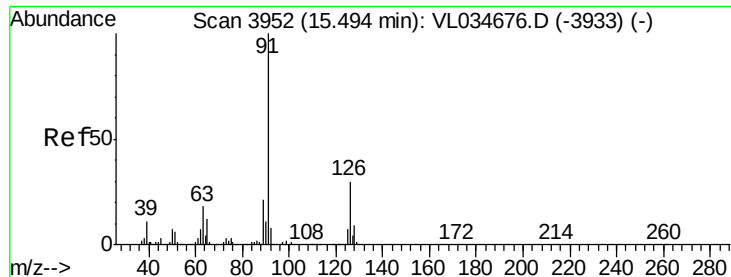
MMDadoda
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#70
 n-Butylbenzene
 Concen: 9.395 ppbv
 RT: 18.63 min Scan# 4926
 Delta R.T. 0.03 min
 Lab File: VL034704.D
 Acq: 27 Feb 2020 10:21

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.4	43.8	65.6
134	22.1	17.6	26.4





#71

2-Chlorotoluene

Concen: 9.626 ppbv

RT: 15.53 min Scan# 3962

Delta R.T. 0.03 min

Lab File: VL034704.D

Acq: 27 Feb 2020 10:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 2623491

Ion Ratio Lower Upper

91 100

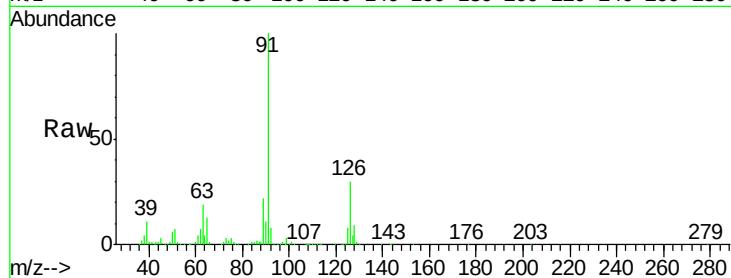
126 29.2 11.8 47.2

Manual Integrations

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

2000000

1500000

1000000

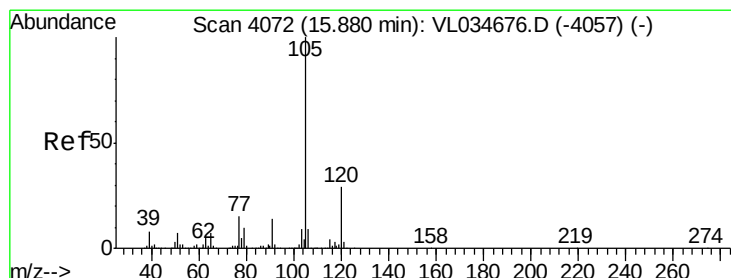
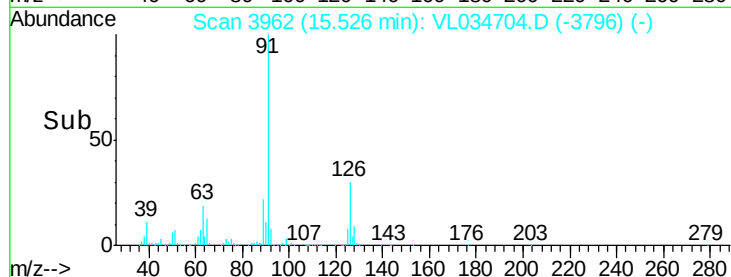
500000

0

Time--> 15.40

15.50

15.60



#72

4-Ethyltoluene

Concen: 9.935 ppbv

RT: 15.91 min Scan# 4081

Delta R.T. 0.03 min

Lab File: VL034704.D

Acq: 27 Feb 2020 10:21

Tgt Ion: 105 Resp: 2667601

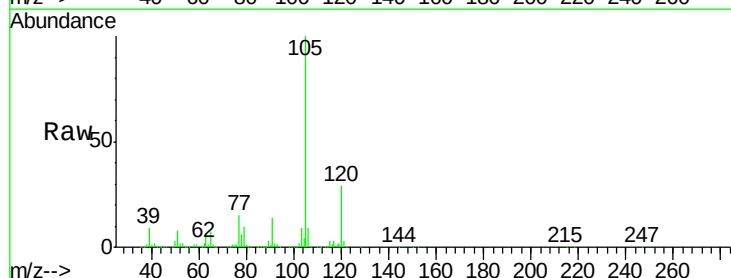
Ion Ratio Lower Upper

105 100

120 28.8 23.7 35.5

91 13.9 10.9 16.3

77 15.2 12.2 18.2



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

1500000

1000000

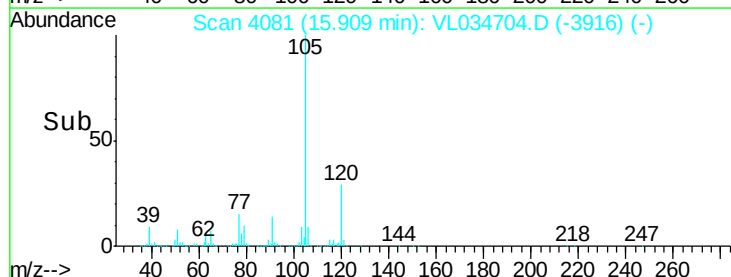
500000

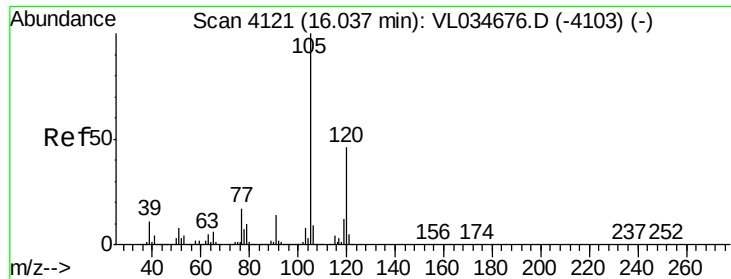
0

Time--> 15.90

15.91

16.00





#73

1,3,5-Trimethylbenzene

Concen: 9.692 ppbv

RT: 16.07 min Scan# 4131

Delta R.T. 0.03 min

Lab File: VL034704.D

Acq: 27 Feb 2020 10:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 2503314

Ion Ratio Lower Upper

105 100

120 45.2

37.1

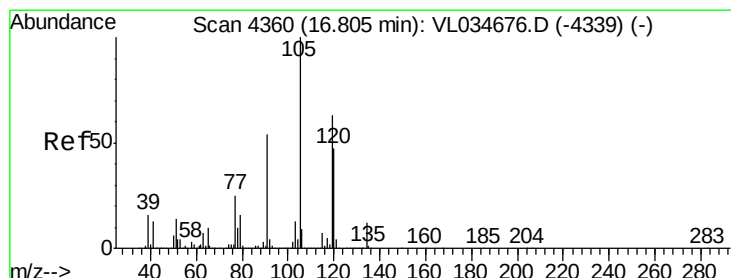
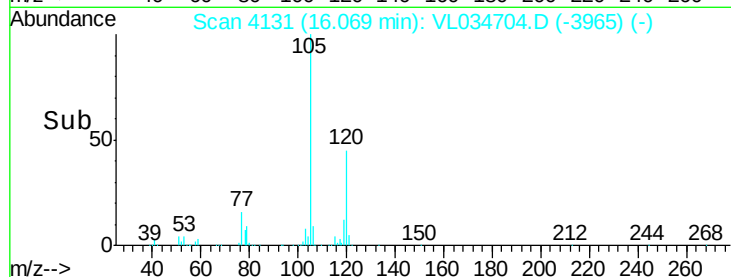
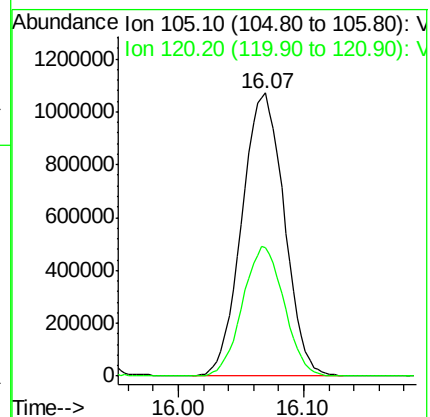
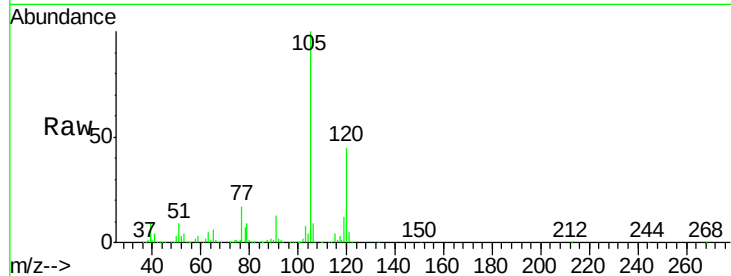
55.7

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#74

1,2,4-Trimethylbenzene

Concen: 9.040 ppbv

RT: 16.83 min Scan# 4369

Delta R.T. 0.03 min

Lab File: VL034704.D

Acq: 27 Feb 2020 10:21

Tgt Ion:105 Resp: 2578813

Ion Ratio Lower Upper

105 100

120 48.2

37.9

56.9

91 55.3

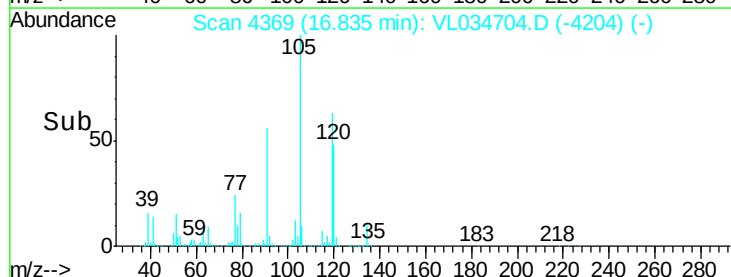
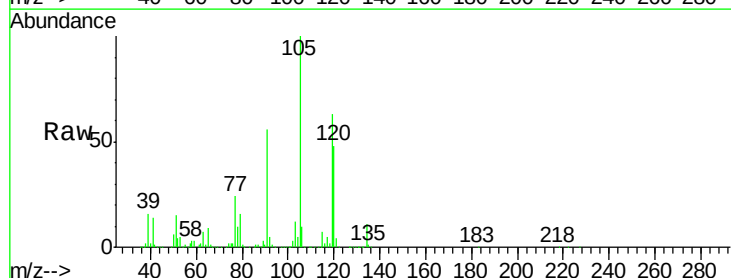
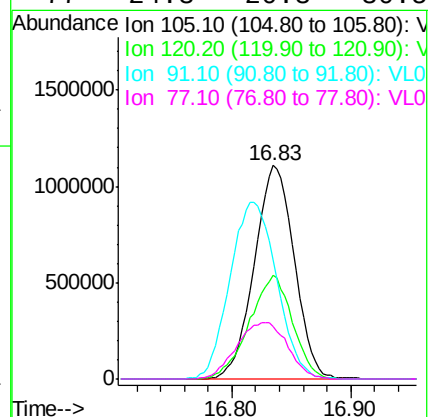
43.9

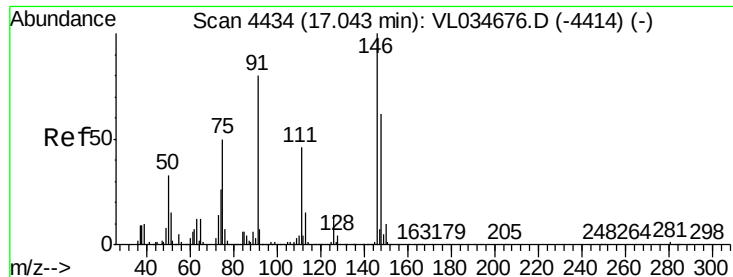
65.9

77 24.3

20.3

30.5





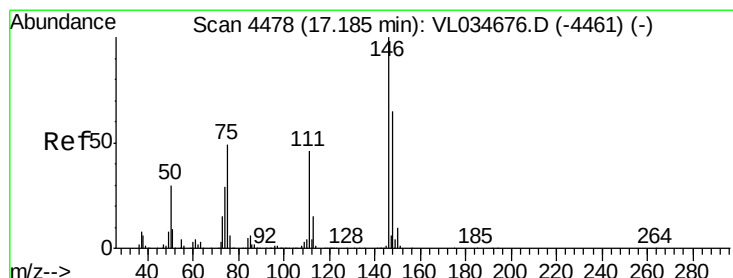
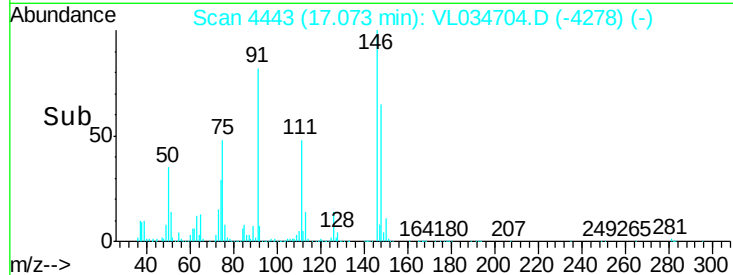
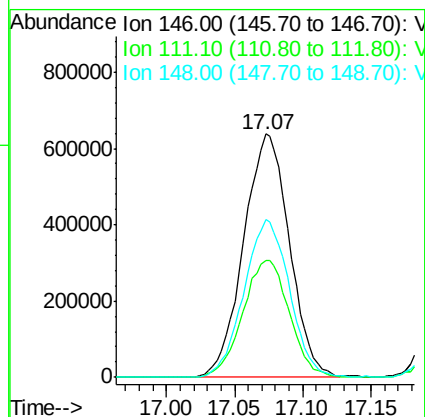
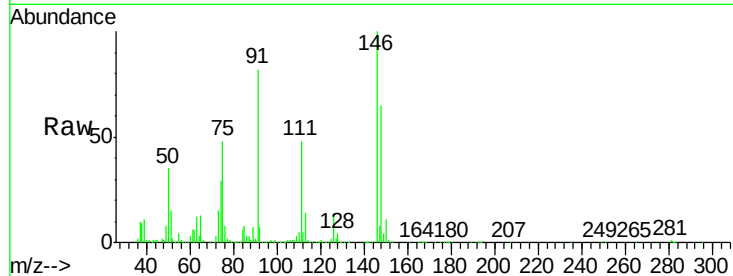
#75
 1,3-Dichlorobenzene
 Concen: 8.975 ppbv
 RT: 17.07 min Scan# 4443
 Delta R.T. 0.03 min
 Lab File: VL034704.D
 Acq: 27 Feb 2020 10:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:146 Resp: 1477856
 Ion Ratio Lower Upper
 146 100
 111 49.1 24.4 73.2
 148 64.9 32.5 97.4

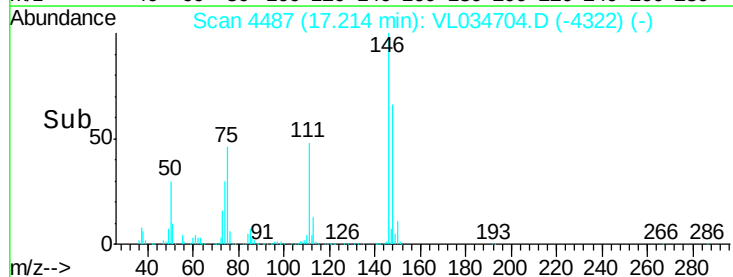
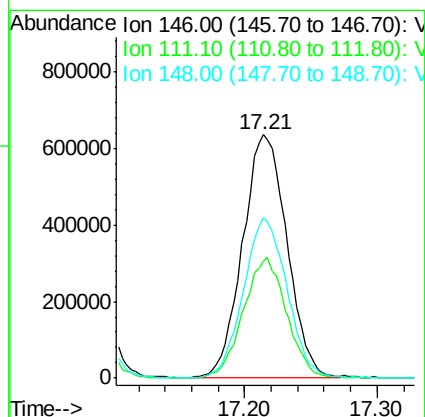
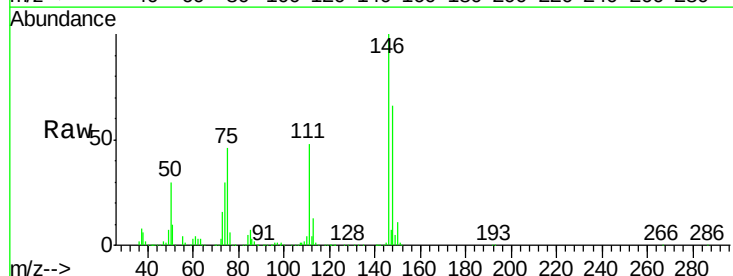
Manual Integrations
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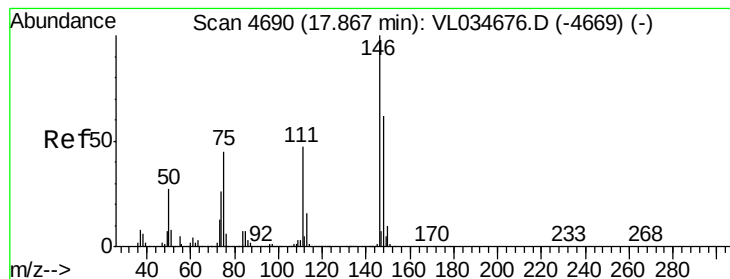
MMDadoda
 2/28/2020 12:32:26 PM



#76
 1,4-Dichlorobenzene
 Concen: 8.962 ppbv
 RT: 17.21 min Scan# 4487
 Delta R.T. 0.03 min
 Lab File: VL034704.D
 Acq: 27 Feb 2020 10:21

Tgt Ion:146 Resp: 1476373
 Ion Ratio Lower Upper
 146 100
 111 48.6 23.4 70.0
 148 65.4 31.9 95.5





#77

1,2-Dichlorobenzene

Concen: 8.926 ppbv

RT: 17.89 min Scan# 4698

Delta R.T. 0.03 min

Lab File: VL034704.D

Acq: 27 Feb 2020 10:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 1420953

Ion Ratio Lower Upper

146 100

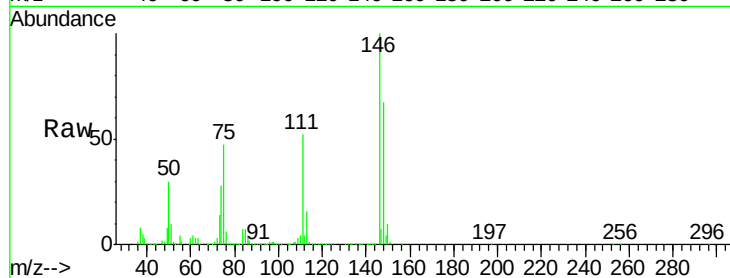
111 51.5 24.9 74.7

148 65.1 32.0 96.0

Manual Integrations
APPROVED

MMDadoda

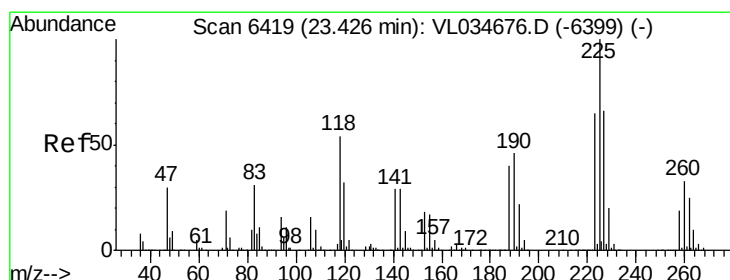
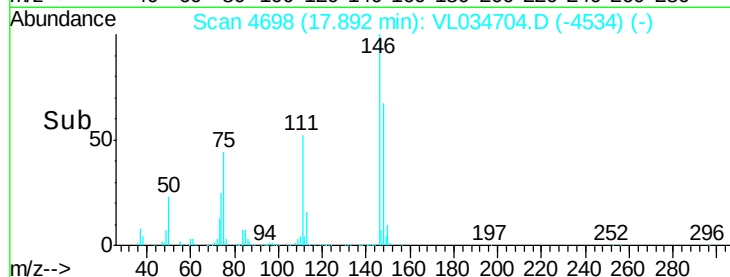
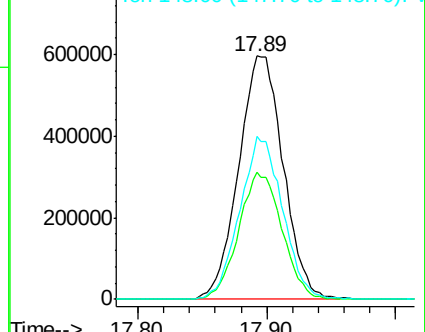
2/28/2020 12:32:26 PM



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: 8.901 ppbv

RT: 23.45 min Scan# 6428

Delta R.T. 0.03 min

Lab File: VL034704.D

Acq: 27 Feb 2020 10:21

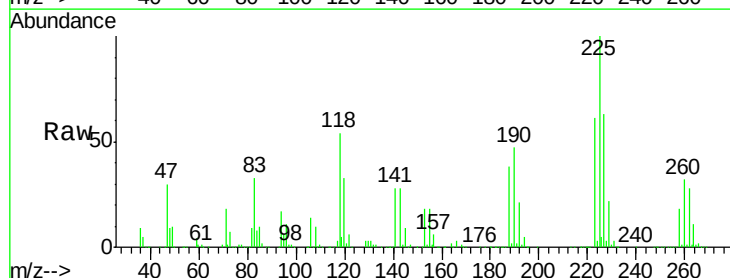
Tgt Ion:225 Resp: 1233772

Ion Ratio Lower Upper

225 100

223 62.3 51.3 76.9

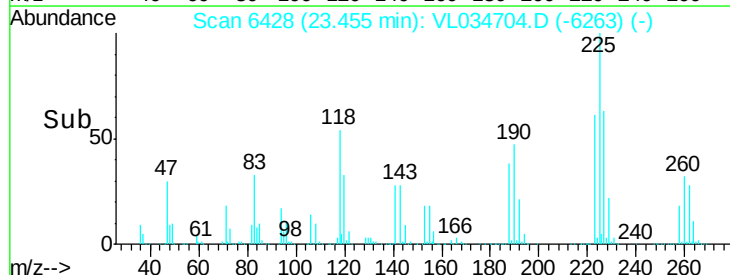
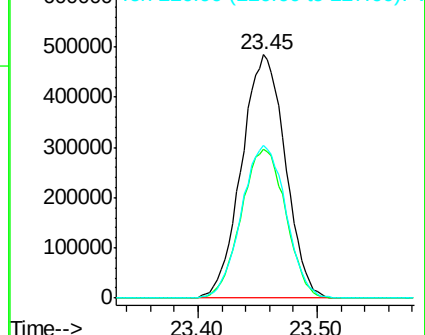
227 63.9 51.3 76.9

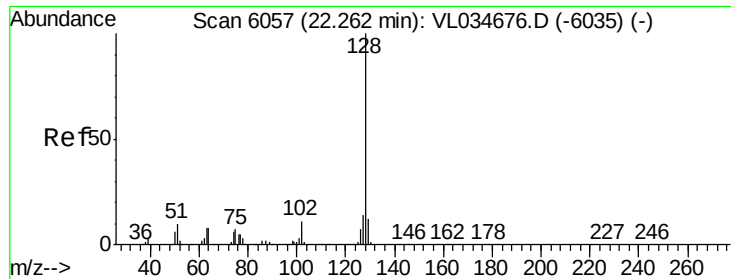


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





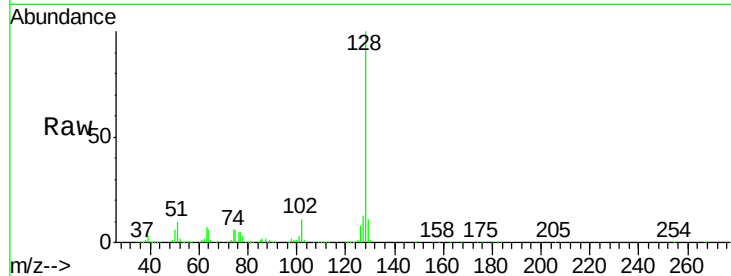
#79
Naphthalene
Concen: 9.652 ppbv
RT: 22.30 min Scan# 6069
Delta R.T. 0.04 min
Lab File: VL034704.D
Acq: 27 Feb 2020 10:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

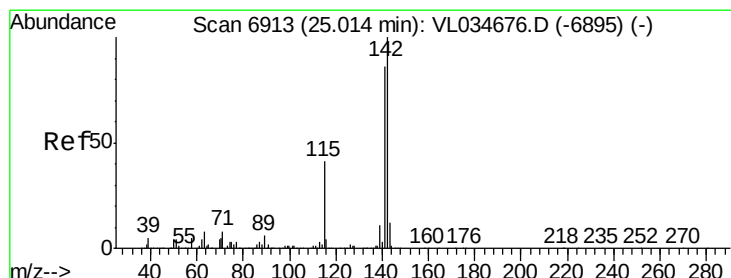
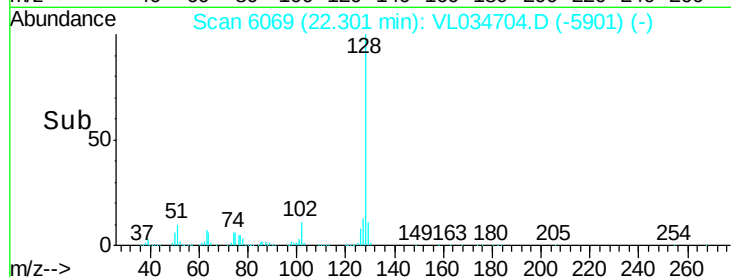
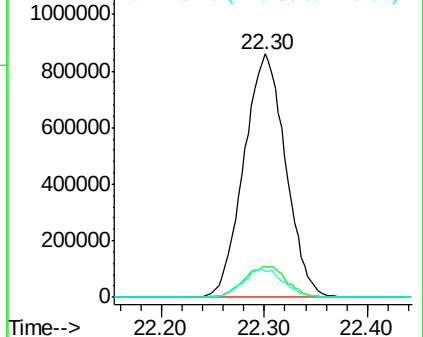
Tot Ion	Ratio	Lower	Upper
128	100		
127	12.6	11.0	16.6
129	10.8	9.4	14.2

Manual Integrations
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2/28/2020 12:32:26 PM

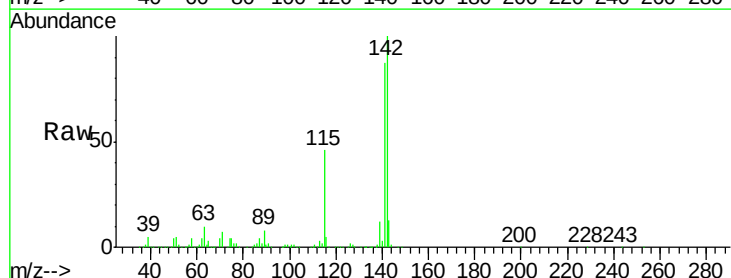


Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V

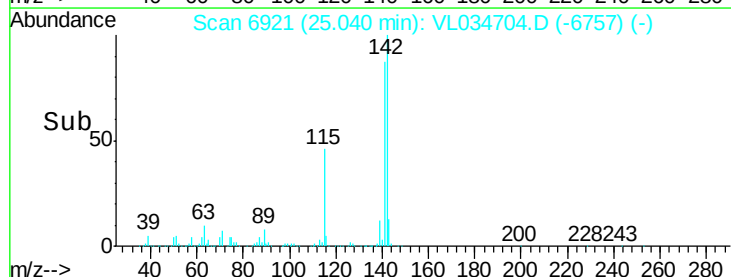
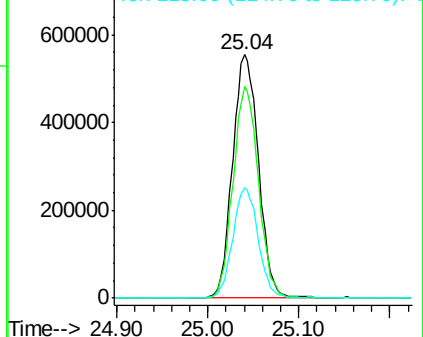


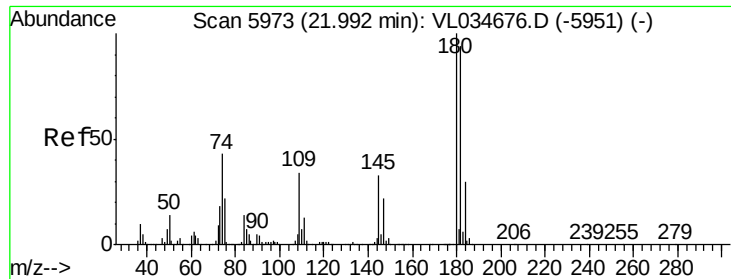
#80
Naphthalene, 2-methyl-
Concen: 14.175 ppbv
RT: 25.04 min Scan# 6921
Delta R.T. 0.03 min
Lab File: VL034704.D
Acq: 27 Feb 2020 10:21

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.6	66.5	99.7
115	44.6	30.6	46.0



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: 9.258 ppbv
 RT: 22.03 min Scan# 5984
 Delta R.T. 0.04 min
 Lab File: VL034704.D
 Acq: 27 Feb 2020 10:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.8	76.5	114.7
184	31.0	25.2	37.8

Manual Integrations
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