

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030320\
 Data File : VL034760.D
 Acq On : 3 Mar 2020 11:52
 Operator : SY/AP
 Sample : VL0303ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0303ABS01

Manual Integrations
 APPROVED

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 3/4/2020 4:48:57 PM

Quant Time: Mar 04 06:05:31 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	5.68	49	1180893	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.20	114	2430689	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.13	117	2570308m	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	2110292	10.01	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	1424375	7.646	ppbv	94
3) Chlorodifluoromethane	2.96	51	1136159	8.915	ppbv	98
4) Chloromethane	3.11	50	620439	8.697	ppbv	99
5) Vinyl Chloride	3.23	62	620054	8.860	ppbv	97
6) Bromomethane	3.45	94	376676	9.187	ppbv	92
7) Chloroethane	3.54	64	237027	9.123	ppbv	95
8) Dichlorotetrafluoroethane	3.16	85	1424006	8.642	ppbv	99
9) Propene	2.98	41	445182	8.357	ppbv	97
10) Heptane	8.15	43	1266590	9.237	ppbv	98
11) Trichlorofluoromethane	3.93	101	1500946	9.199	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1018213	8.853	ppbv	99
13) Ethanol	3.58	45	134610	7.999	ppbv	98
14) Bromoethene	3.72	108	444797	9.269	ppbv	100
15) Acetone	3.83	43	1176422	8.742	ppbv	99
16) 1,3-Butadiene	3.30	39	586090	9.409	ppbv	98
17) tert-Butyl alcohol	4.28	59	1049044	10.173	ppbv	100
18) 1,1-Dichloroethene	4.28	96	466018	9.025	ppbv	97
19) Isopropyl Alcohol	3.95	45	822389	10.260	ppbv	99
20) Methylene Chloride	4.33	84	412176	8.236	ppbv	95
21) Allyl Chloride	4.40	41	826502	9.283	ppbv	97
22) trans-1,2-Dichloroethene	4.88	96	461370	9.164	ppbv	97
23) Vinyl Acetate	5.07	43	1795757	9.816	ppbv	98
24) 1,1-Dichloroethane	5.01	63	1302789	8.917	ppbv	99
25) Ethyl Acetate	5.68	43	2186905	9.181	ppbv	100
26) Hexane	5.69	57	977908	8.907	ppbv	98
27) Carbon Disulfide	4.54	76	1230779	9.876	ppbv	98
28) Methyl tert-Butyl Ether	5.03	73	1455975	9.283	ppbv	99
29) Chloroform	5.76	83	1578972	9.027	ppbv	99
30) Cyclohexane	7.15	84	793231	9.323	ppbv	99
31) cis-1,2-Dichloroethene	5.56	61	1020306	9.444	ppbv	94
32) 1,1,1-Trichloroethane	6.53	97	1546742	9.469	ppbv	99
34) 2-Butanone	5.24	43	1428781	9.339	ppbv	99
35) Carbon Tetrachloride	7.04	117	1602382	9.843	ppbv	98
36) Benzene	6.91	78	1904840	9.073	ppbv	94
37) 1,2-Dichloroethane	6.32	62	1301231	9.833	ppbv	98
38) Trichloroethene	7.86	130	742269	9.173	ppbv	96
39) 1,2-Dichloropropane	7.64	63	770353	9.223	ppbv	98
40) 1,4-Dioxane	7.86	88	282569	9.948	ppbv	95
41) Tetrahydrofuran	6.06	42	781133	9.673	ppbv	99
42) Bromodichloromethane	7.82	83	1715079	9.899	ppbv	97
43) Methyl Methacrylate	8.04	69	866913	9.818	ppbv	98

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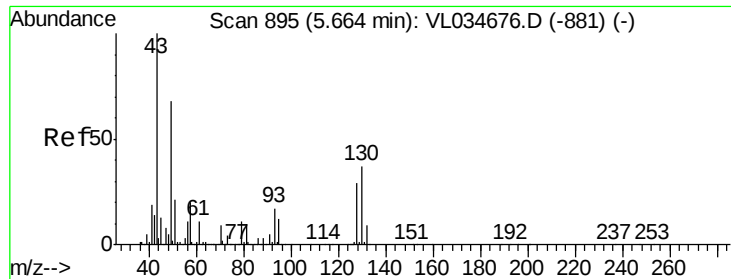
Manual Integrations
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 3/4/2020 4:48:57 PM

Quant Time: Mar 04 06:05:31 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)
44) 2,2,4-Trimethylpentane	7.89	57	3361725	9.162	ppbv	98
45) t-1,3-Dichloropropene	9.31	75	1074768	11.154	ppbv	96
46) cis-1,3-Dichloropropene	8.74	75	1244598	10.770	ppbv	99
47) 1,1,2-Trichloroethane	9.51	97	814697	9.508	ppbv	98
48) Dibromochloromethane	10.35	129	1393144	10.456	ppbv	100
49) Bromoform	13.09	173	1233253	10.675	ppbv	99
50) 4-Methyl-2-Pentanone	8.77	43	2193206	10.121	ppbv	99
51) 2-Hexanone	10.17	43	1852207	10.861	ppbv #	99
52) Tetrachloroethene	11.27	164	682504	8.869	ppbv	94
53) Toluene	9.84	91	2217218	9.930	ppbv	98
54) 1,2-Dibromoethane	10.65	107	1264830	9.894	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.17	131	975536	8.912	ppbv #	57
57) Chlorobenzene	12.19	112	1697128	8.933	ppbv	97
58) Ethyl Benzene	12.76	91	3001443	9.652	ppbv	97
59) m/p-Xylene	13.04	91	4962735m	18.297	ppbv	
60) o-Xylene	13.74	91	2495971	9.274	ppbv	99
61) Styrene	13.58	104	1772227	10.251	ppbv	98
62) Isopropylbenzene	14.72	105	3504919	8.927	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.73	83	1809194	8.625	ppbv	99
64) n-propylbenzene	15.61	120	906808	8.959	ppbv	92
65) tert-Butylbenzene	16.80	119	3071188	9.059	ppbv	98
66) Benzyl Chloride	17.05	91	1522532	12.039	ppbv	98
67) sec-Butylbenzene	17.35	105	4361762	8.941	ppbv	99
69) p-Isopropyltoluene	17.71	119	3637598	9.058	ppbv	98
70) n-Butylbenzene	18.61	91	3906065	8.932	ppbv	100
71) 2-Chlorotoluene	15.51	91	2790797	9.178	ppbv	99
72) 4-Ethyltoluene	15.90	105	2926899	9.771	ppbv	99
73) 1,3,5-Trimethylbenzene	16.05	105	2734168	9.488	ppbv	98
74) 1,2,4-Trimethylbenzene	16.82	105	2850351	8.956	ppbv	94
75) 1,3-Dichlorobenzene	17.06	146	1627130	8.857	ppbv	99
76) 1,4-Dichlorobenzene	17.20	146	1640476	8.925	ppbv	98
77) 1,2-Dichlorobenzene	17.88	146	1588038	8.941	ppbv	99
78) Hexachloro-1,3-Butadiene	23.44	225	1251969	8.096	ppbv	99
79) Naphthalene	22.28	128	2749566	9.817	ppbv	98
80) Naphthalene, 2-methyl-	25.03	142	754553	8.734	ppbv	99
81) 1,2,4-Trichlorobenzene	22.01	180	1475865	8.829	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.01 min

Lab File: VL034760.D

Acq: 3 Mar 2020 11:52

Instrument :

MSVOA_L

ClientSampleId :

VL0303ABS01

Tot Ion: 49 Resp: 1180893

Ion Ratio Lower Upper

49 100

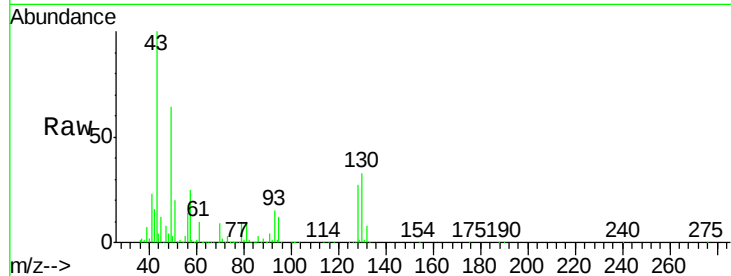
128 43.1 21.6 65.0

130 55.0 27.7 83.1

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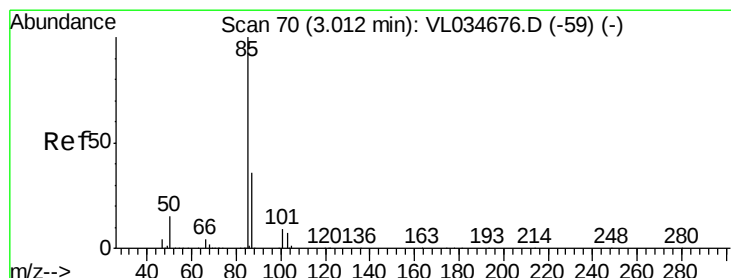
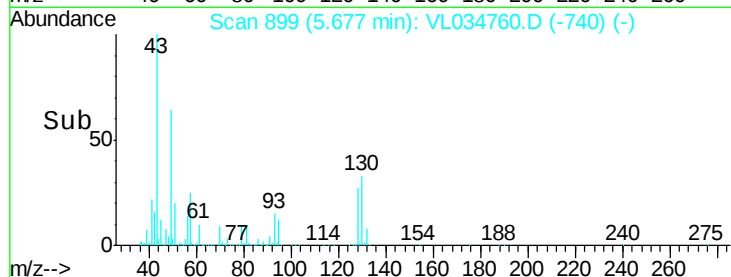
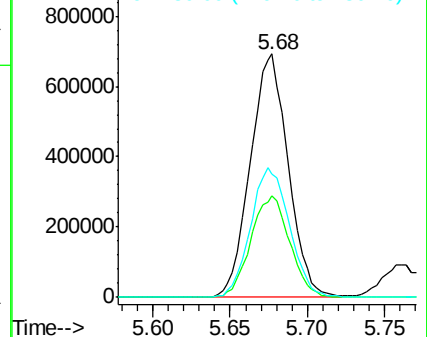
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 7.646 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL034760.D

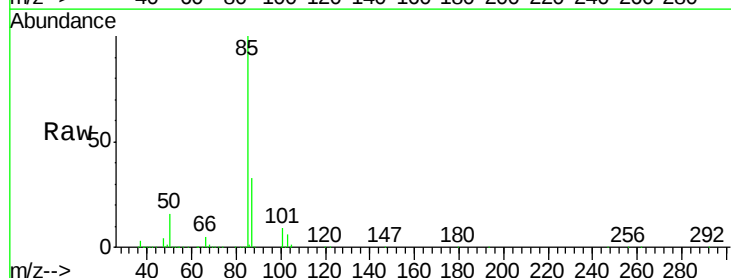
Acq: 3 Mar 2020 11:52

Tgt Ion: 85 Resp: 1424375

Ion Ratio Lower Upper

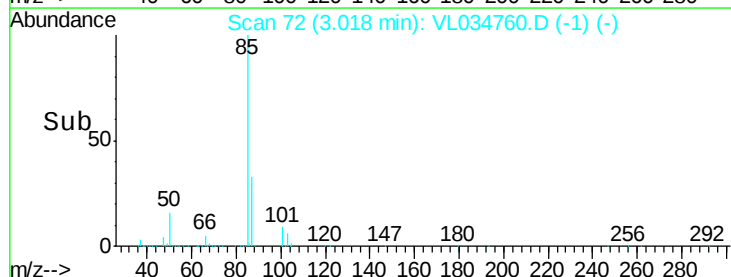
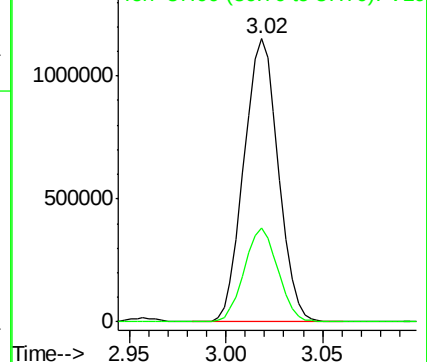
85 100

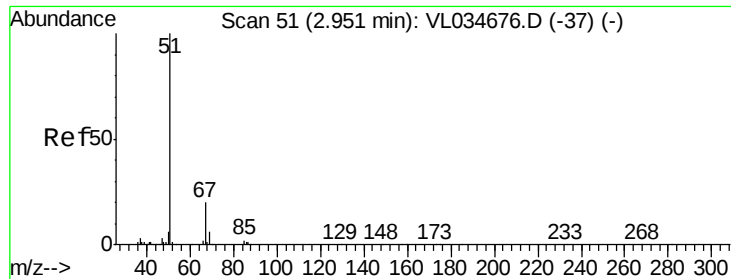
87 33.1 29.2 43.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





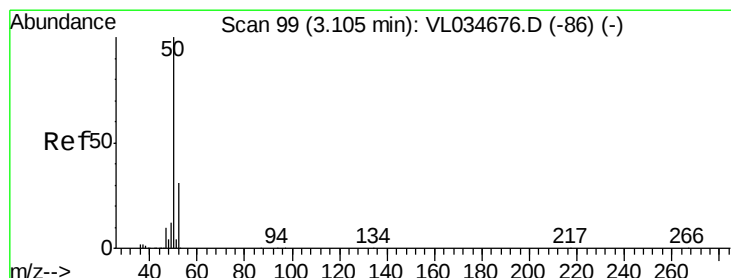
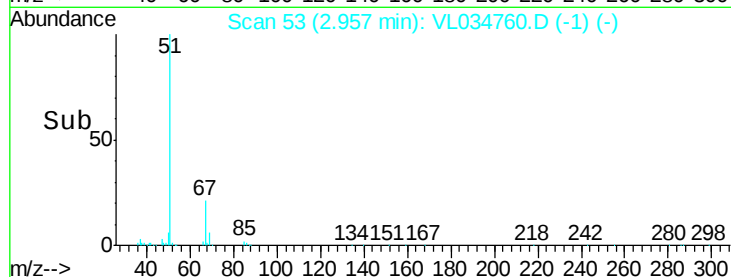
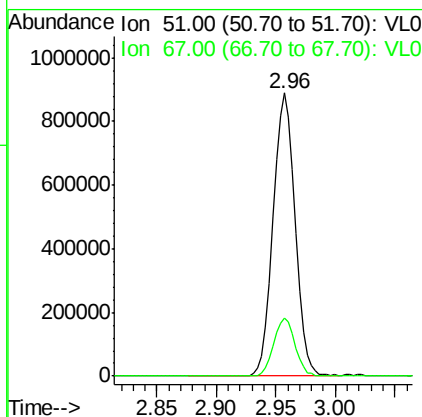
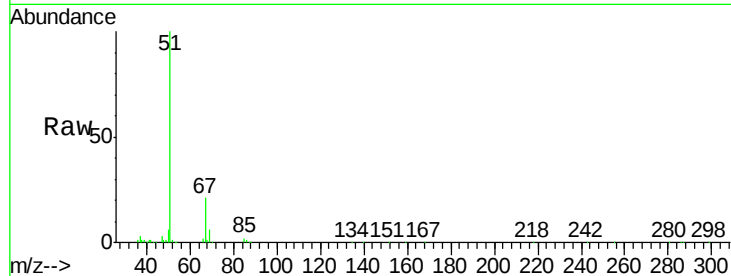
#3
Chlorodifluoromethane
Concen: 8.915 ppbv
RT: 2.96 min Scan# 53
Delta R.T. 0.01 min
Lab File: VL034760.D
Acq: 3 Mar 2020 11:52

Instrument :
MSVOA_L
ClientSampleId :
VL0303ABS01

Tot Ion: 51 Resp: 1136159
Ion Ratio Lower Upper
51 100
67 20.1 15.5 23.3

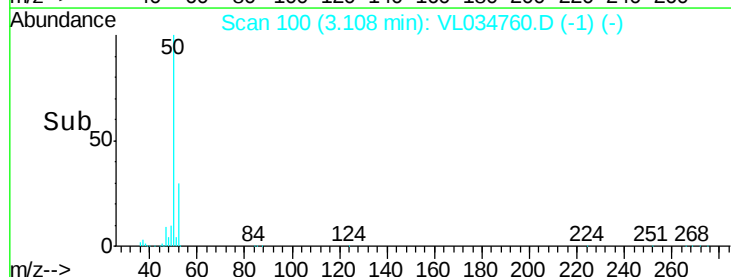
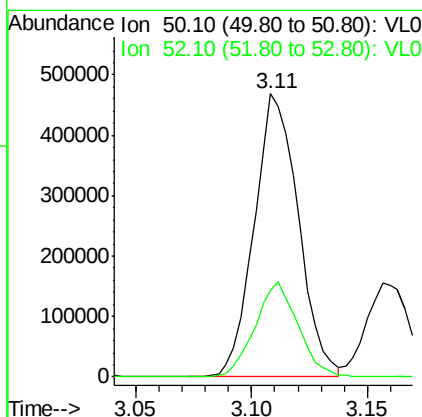
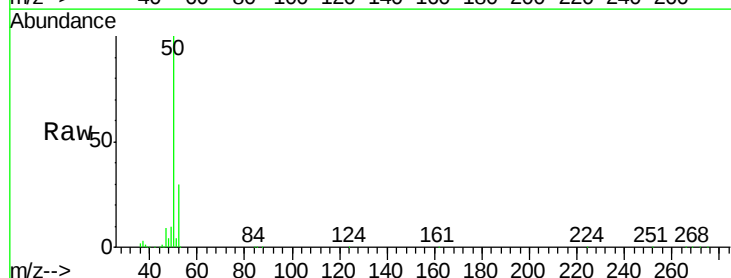
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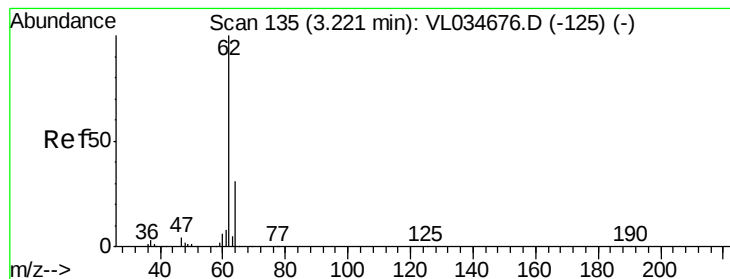
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#4
Chloromethane
Concen: 8.697 ppbv
RT: 3.11 min Scan# 100
Delta R.T. 0.00 min
Lab File: VL034760.D
Acq: 3 Mar 2020 11:52

Tgt Ion: 50 Resp: 620439
Ion Ratio Lower Upper
50 100
52 30.4 25.0 37.4





#5

Vinyl Chloride

Concen: 8.860 ppbv

RT: 3.23 min Scan# 138

Delta R.T. 0.01 min

Lab File: VL034760.D

Acq: 3 Mar 2020 11:52

Instrument :

MSVOA_L

ClientSampleId :

VL0303ABS01

Tot Ion: 62 Resp: 620054

Ion Ratio Lower Upper

62 100

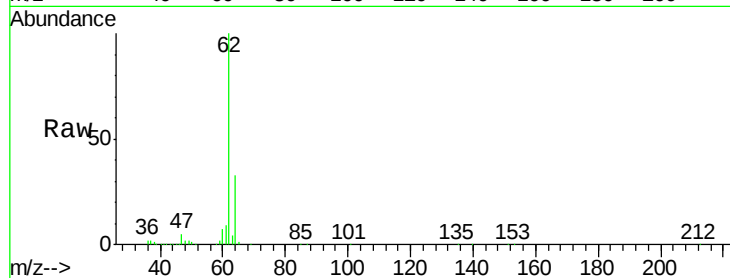
64 32.7 24.7 37.1

Manual Integrations

APPROVED

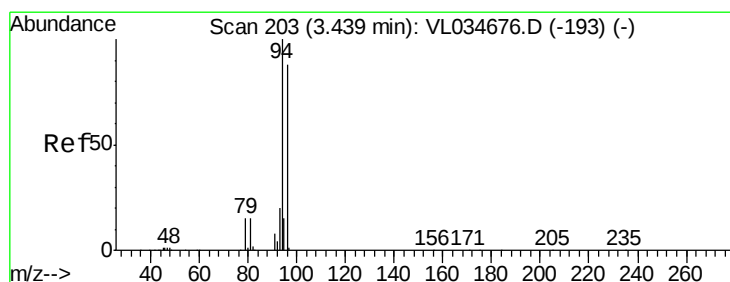
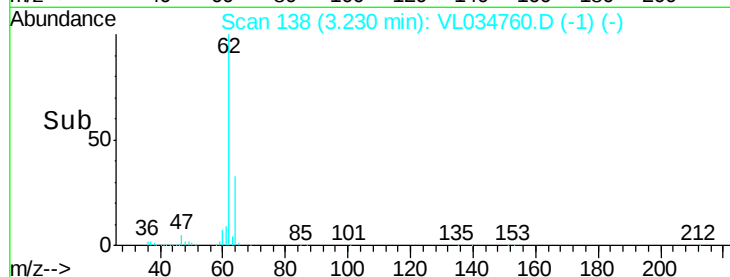
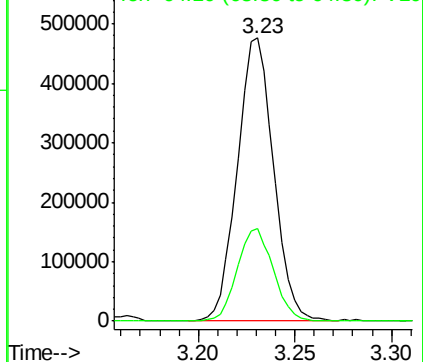
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.187 ppbv

RT: 3.45 min Scan# 206

Delta R.T. 0.01 min

Lab File: VL034760.D

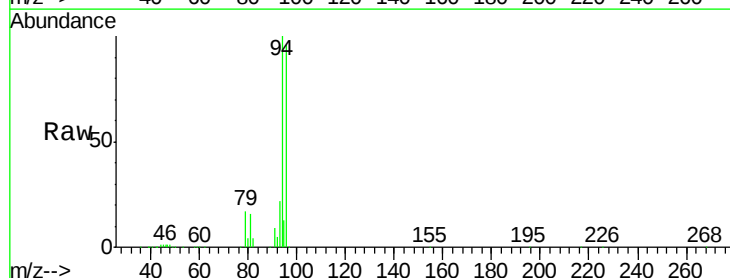
Acq: 3 Mar 2020 11:52

Tgt Ion: 94 Resp: 376676

Ion Ratio Lower Upper

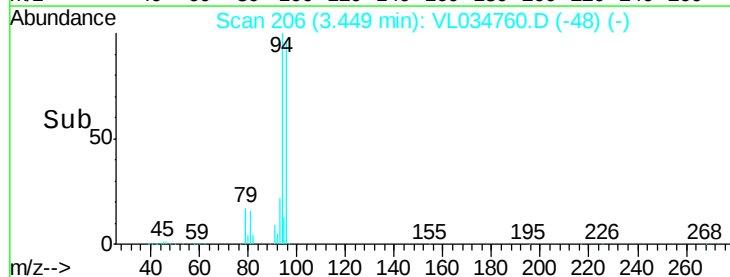
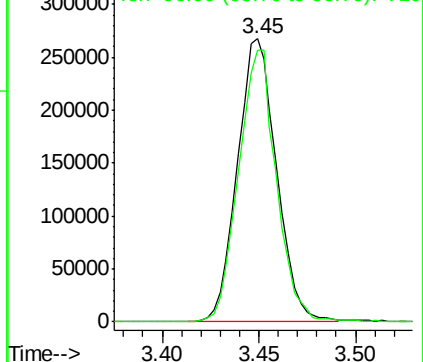
94 100

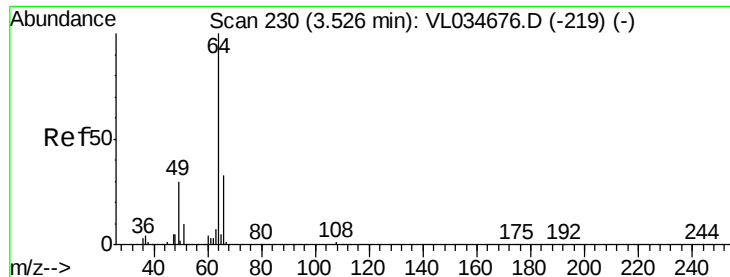
96 95.9 70.5 105.7



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.123 ppbv

RT: 3.54 min Scan# 233

Delta R.T. 0.01 min

Lab File: VL034760.D

Acq: 3 Mar 2020 11:52

Instrument :

MSVOA_L

ClientSampleId :

VL0303ABS01

Tot Ion: 64 Resp: 237027

Ion Ratio Lower Upper

64 100

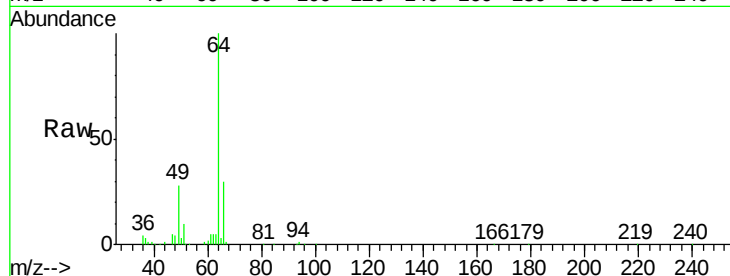
66 30.4 26.7 40.1

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.54

200000

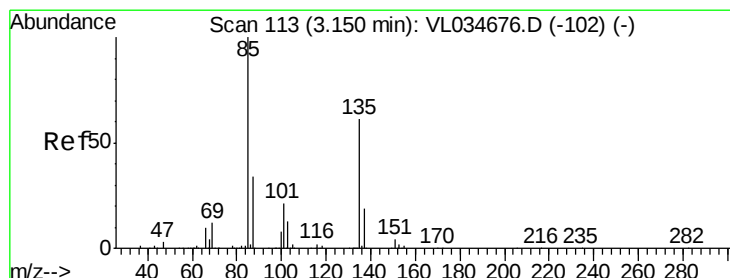
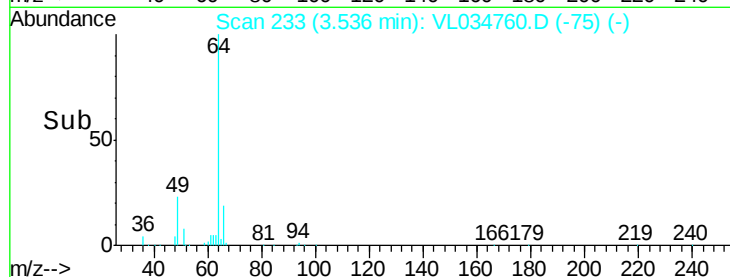
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 8.642 ppbv

RT: 3.16 min Scan# 116

Delta R.T. 0.01 min

Lab File: VL034760.D

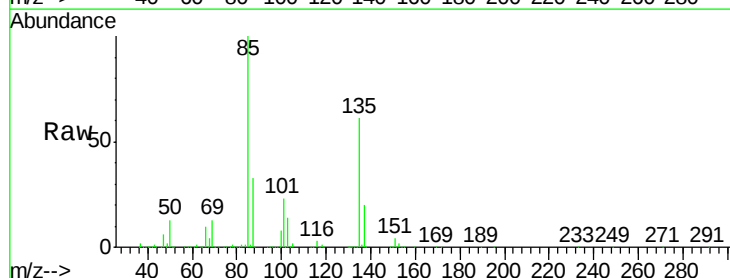
Acq: 3 Mar 2020 11:52

Tgt Ion: 85 Resp: 1424006

Ion Ratio Lower Upper

85 100

135 61.7 49.8 74.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.16

1200000

1000000

800000

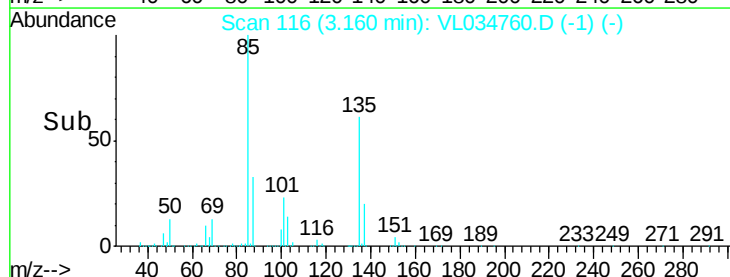
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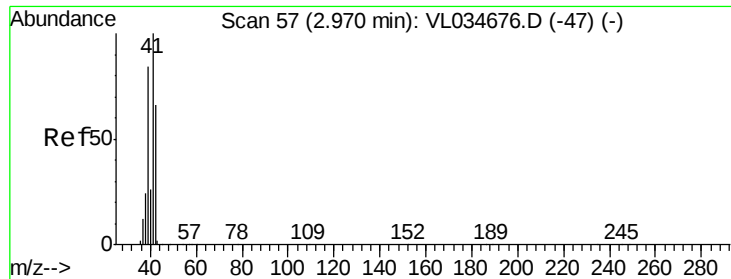
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200000

0

Time-->





#9

Propene

Concen: 8.357 ppbv

RT: 2.98 min Scan# 60

Delta R.T. 0.01 min

Lab File: VL034760.D

Acq: 3 Mar 2020 11:52

Instrument :

MSVOA_L

ClientSampleId :

VL0303ABS01

Tot Ion: 41 Resp: 445182

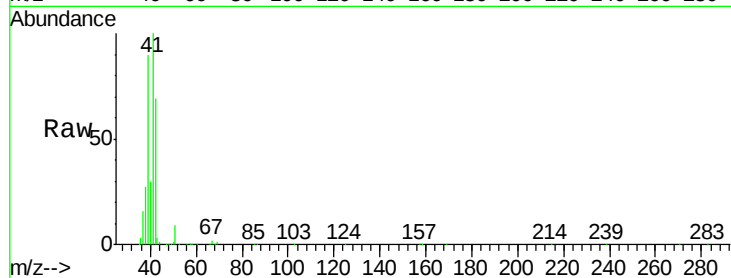
Ion Ratio Lower Upper

41 100

42 70.8 54.9 82.3

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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

2.98

400000

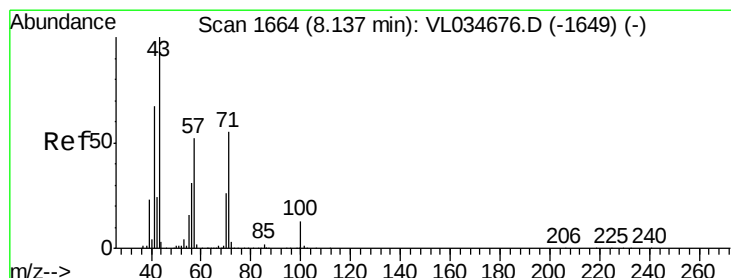
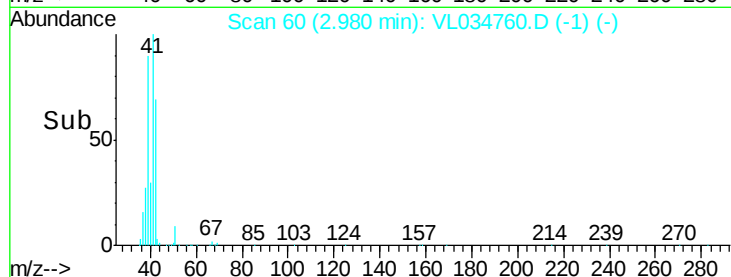
300000

200000

100000

0

Time-->



#10

Heptane

Concen: 9.237 ppbv

RT: 8.15 min Scan# 1668

Delta R.T. 0.01 min

Lab File: VL034760.D

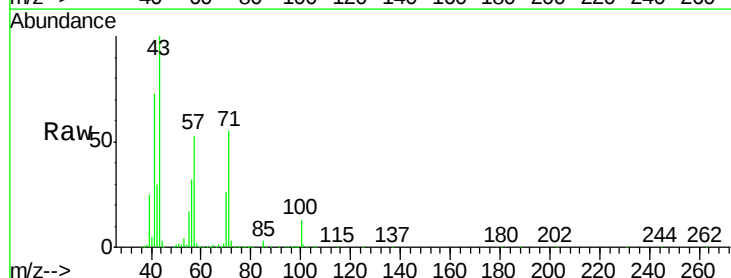
Acq: 3 Mar 2020 11:52

Tgt Ion: 43 Resp: 1266590

Ion Ratio Lower Upper

43 100

57 52.6 41.0 61.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.15

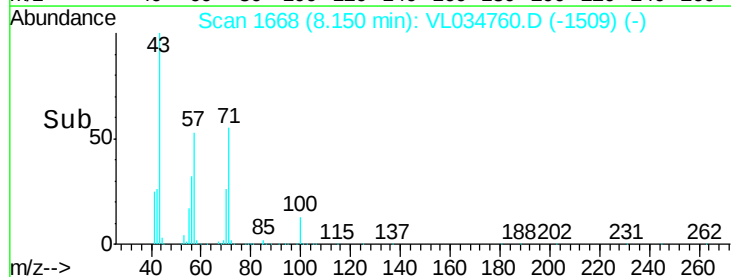
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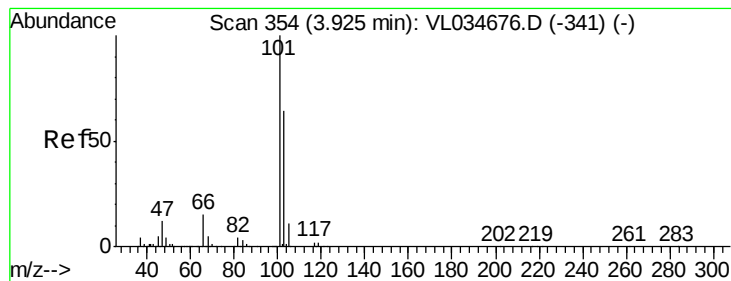
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200000

0

Time-->





#11

Trichlorofluoromethane

Concen: 9.199 ppbv

RT: 3.93 min Scan# 356

Delta R.T. 0.01 min

Lab File: VL034760.D

Acq: 3 Mar 2020 11:52

Instrument :

MSVOA_L

ClientSampleId :

VL0303ABS01

Tot Ion:101 Resp: 1500946

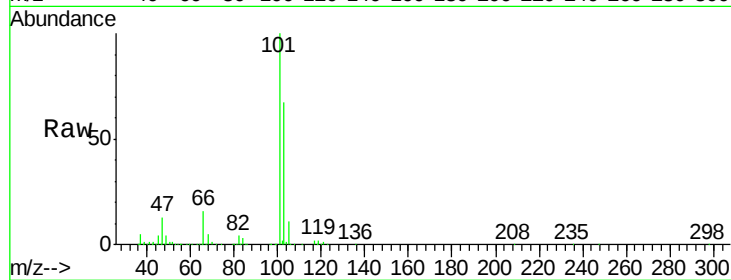
Ion Ratio Lower Upper

101 100

103 66.9 51.2 76.8

Manual Integrations
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

3.93

1000000

800000

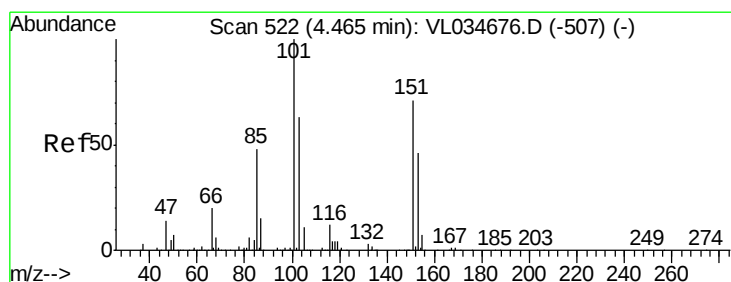
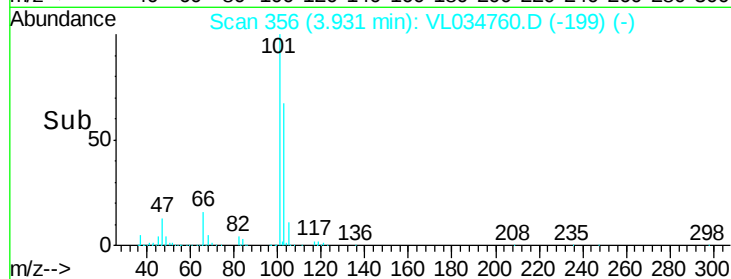
600000

400000

200000

0

Time--> 3.85 3.90 3.95 4.00



#12

1,1,2-Trichlorotrifluoroethane

Concen: 8.853 ppbv

RT: 4.47 min Scan# 525

Delta R.T. 0.01 min

Lab File: VL034760.D

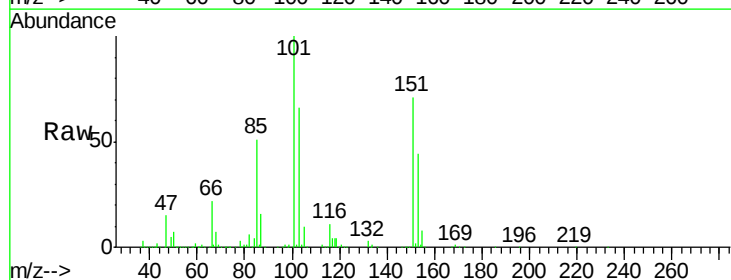
Acq: 3 Mar 2020 11:52

Tgt Ion:101 Resp: 1018213

Ion Ratio Lower Upper

101 100

151 69.3 55.8 83.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

4.47

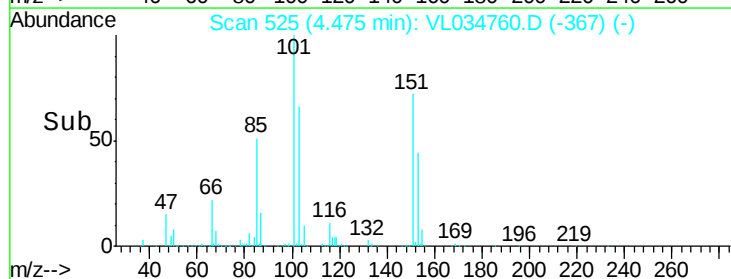
600000

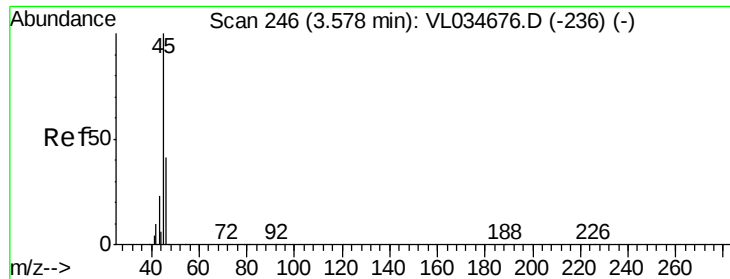
400000

200000

0

Time--> 4.40 4.45 4.50 4.55





#13

Ethanol

Concen: 7.999 ppbv

RT: 3.58 min Scan# 248

Delta R.T. 0.01 min

Lab File: VL034760.D

Acq: 3 Mar 2020 11:52

Instrument :

MSVOA_L

ClientSampleId :

VL0303ABS01

Tot Ion: 45 Resp: 134610

Ion Ratio Lower Upper

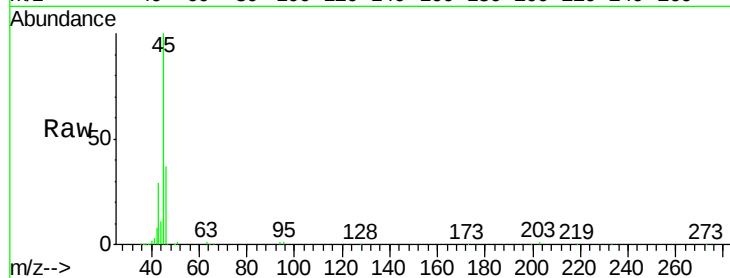
45 100

46 39.8 15.4 61.4

Manual Integrations
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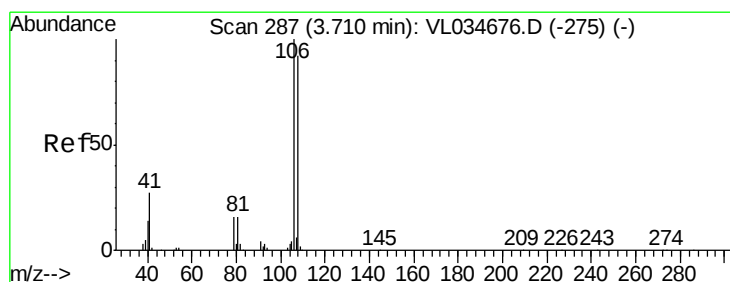
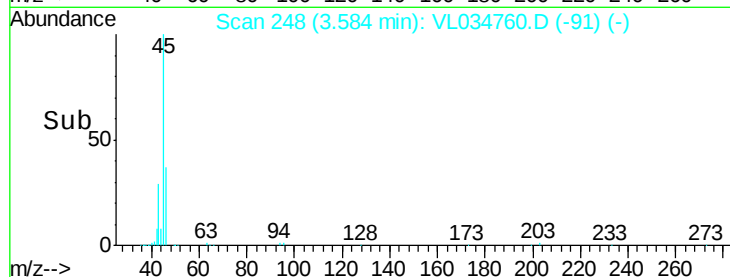
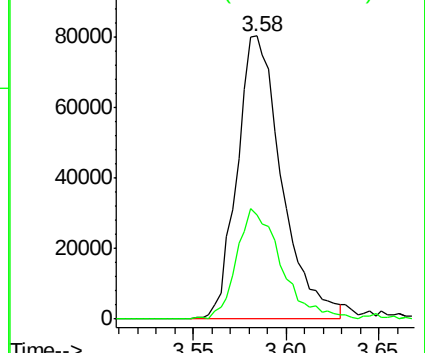
MMDadoda

3/4/2020 4:48:57 PM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 9.269 ppbv

RT: 3.72 min Scan# 290

Delta R.T. 0.01 min

Lab File: VL034760.D

Acq: 3 Mar 2020 11:52

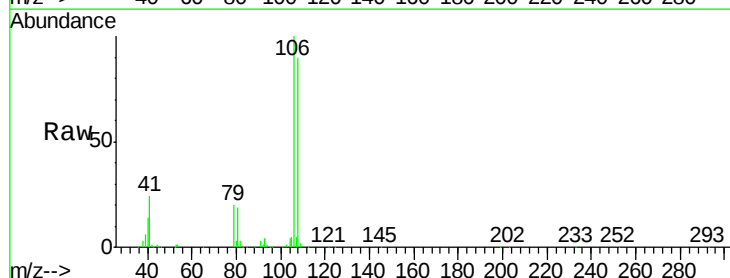
Tgt Ion: 108 Resp: 444797

Ion Ratio Lower Upper

108 100

106 108.4 86.7 130.1

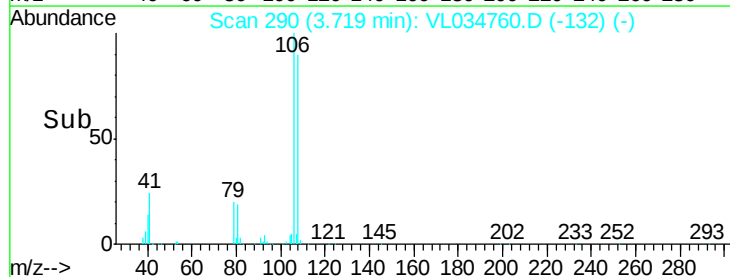
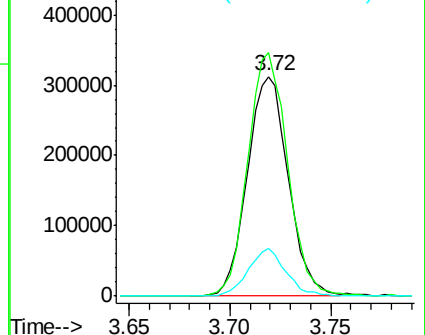
79 20.2 15.0 22.6

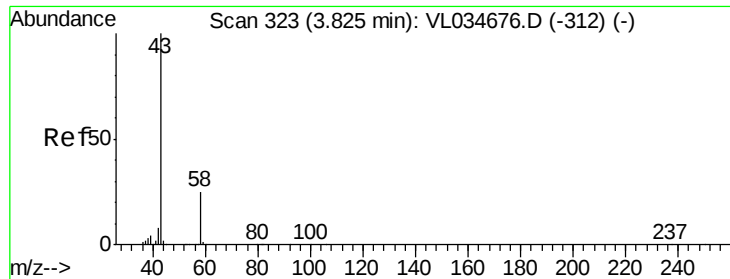


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





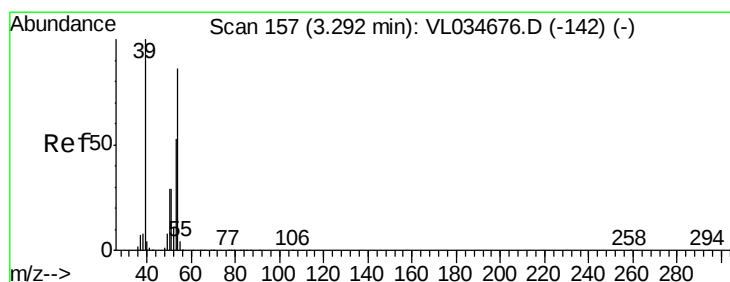
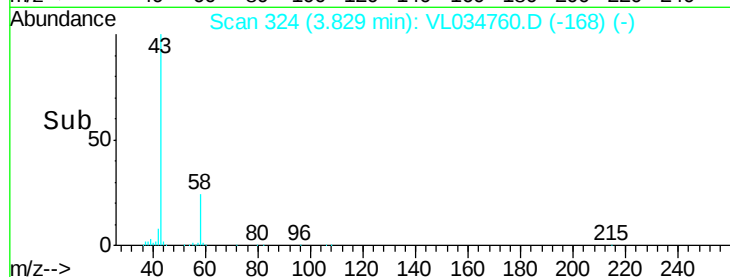
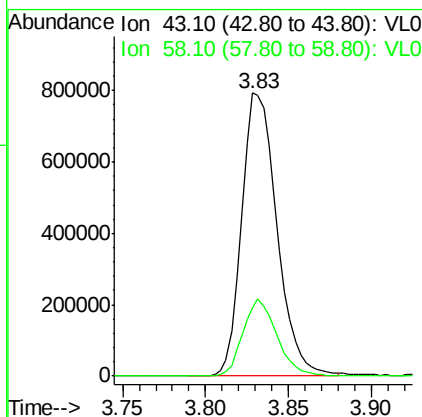
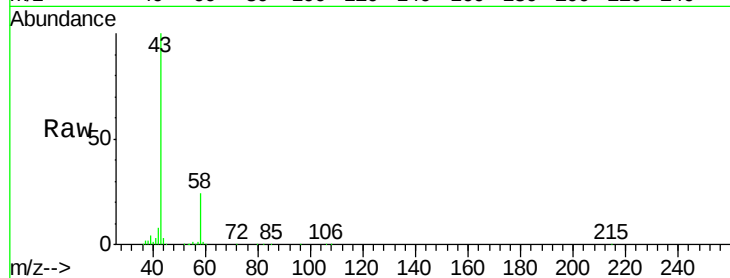
#15
Acetone
Concen: 8.742 ppbv
RT: 3.83 min Scan# 324
Delta R.T. 0.00 min
Lab File: VL034760.D
Acq: 3 Mar 2020 11:52

Instrument :
MSVOA_L
ClientSampleId :
VL0303ABS01

Tot Ion: 43 Resp: 1176422
Ion Ratio Lower Upper
43 100
58 26.3 21.4 32.0

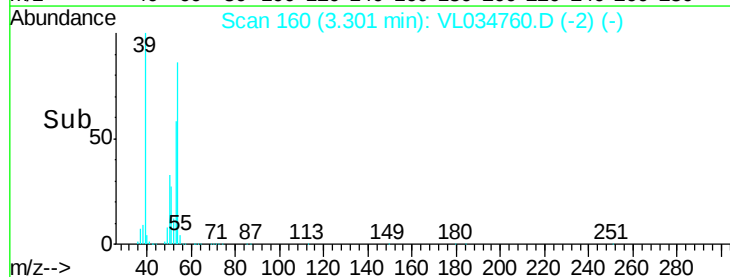
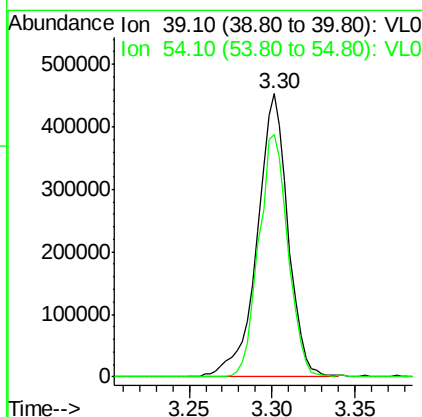
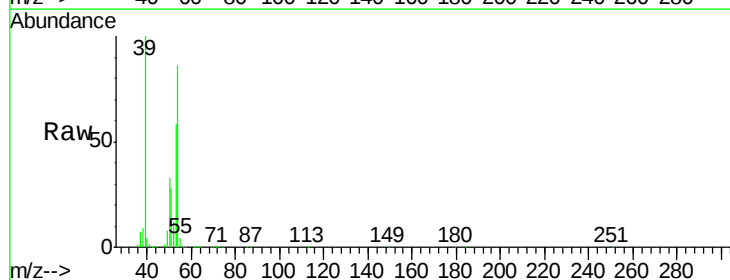
Manual Integrations
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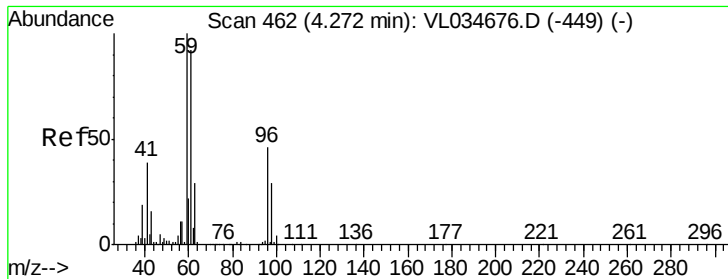
MMDadoda
3/4/2020 4:48:57 PM



#16
1,3-Butadiene
Concen: 9.409 ppbv
RT: 3.30 min Scan# 160
Delta R.T. 0.01 min
Lab File: VL034760.D
Acq: 3 Mar 2020 11:52

Tgt Ion: 39 Resp: 586090
Ion Ratio Lower Upper
39 100
54 81.7 67.0 100.6





#17

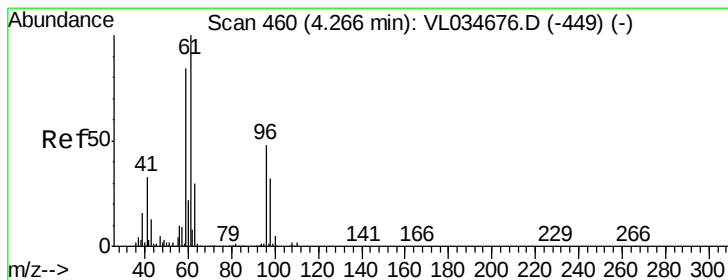
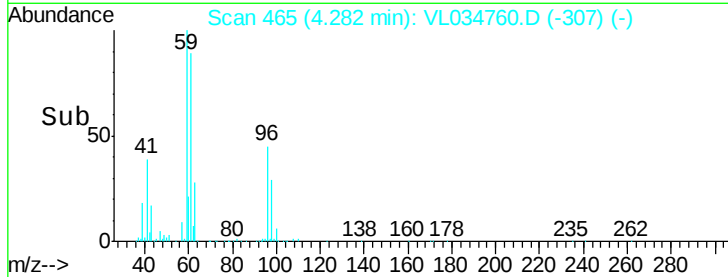
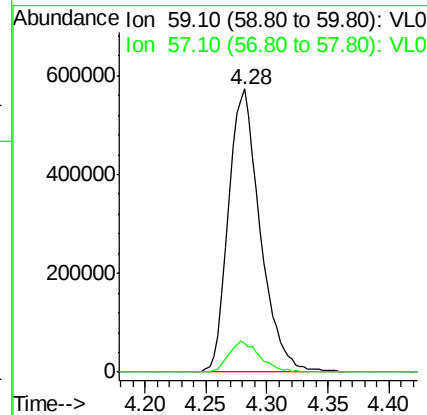
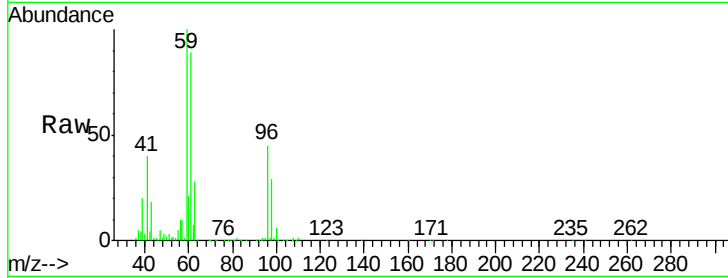
tert-Butyl alcohol
Concen: 10.173 ppbv
RT: 4.28 min Scan# 465
Delta R.T. 0.01 min
Lab File: VL034760.D
Acq: 3 Mar 2020 11:52

Instrument :
MSVOA_L
ClientSampleId :
VL0303ABS01

Tot Ion: 59 Resp: 1049044
Ion Ratio Lower Upper
59 100
57 10.8 8.8 13.2

Manual Integrations
APPROVED

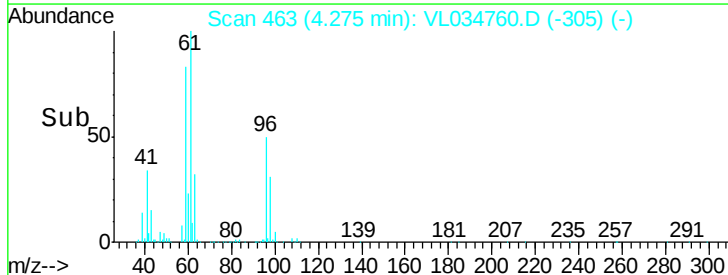
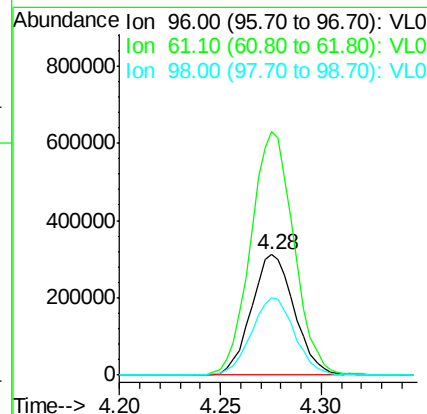
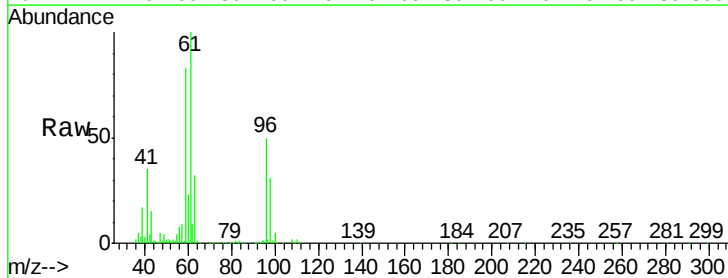
MMDadoda
3/4/2020 4:48:57 PM

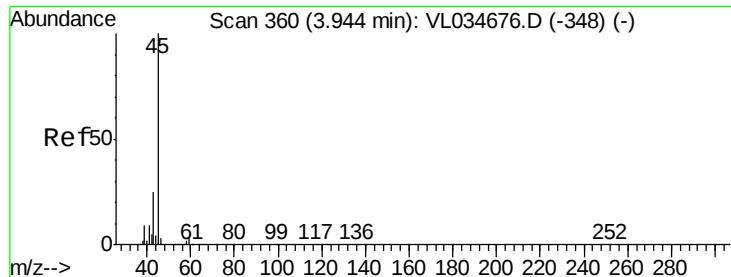


#18

1,1-Dichloroethene
Concen: 9.025 ppbv
RT: 4.28 min Scan# 463
Delta R.T. 0.01 min
Lab File: VL034760.D
Acq: 3 Mar 2020 11:52

Tgt Ion: 96 Resp: 466018
Ion Ratio Lower Upper
96 100
61 201.7 165.1 247.7
98 63.5 52.7 79.1





#19

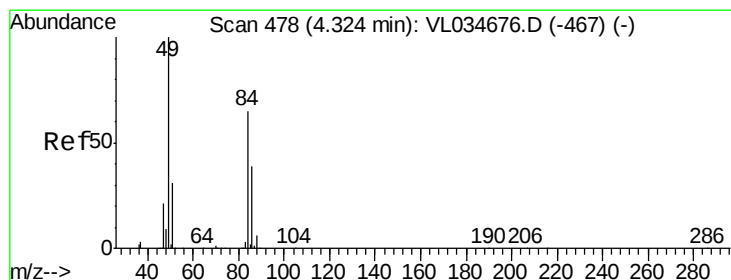
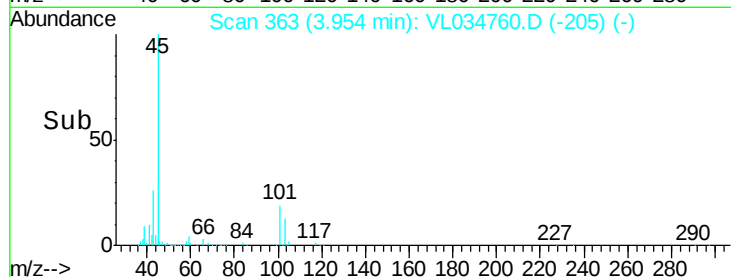
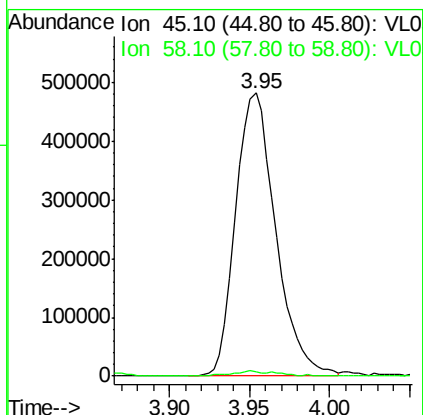
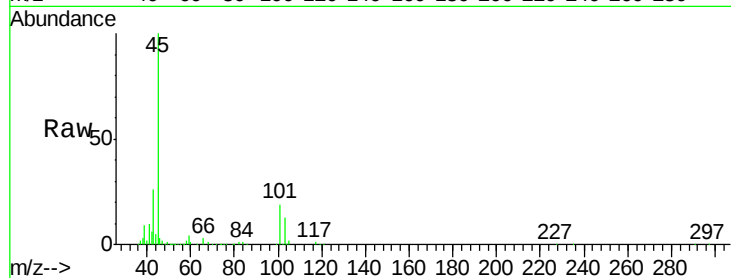
Isopropyl Alcohol
 Concen: 10.260 ppbv
 RT: 3.95 min Scan# 363
 Delta R.T. 0.01 min
 Lab File: VL034760.D
 Acq: 3 Mar 2020 11:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0303ABS01

Tot Ion	Ratio	Lower	Upper
45	100		
58	2.4	1.8	2.6

Manual Integrations
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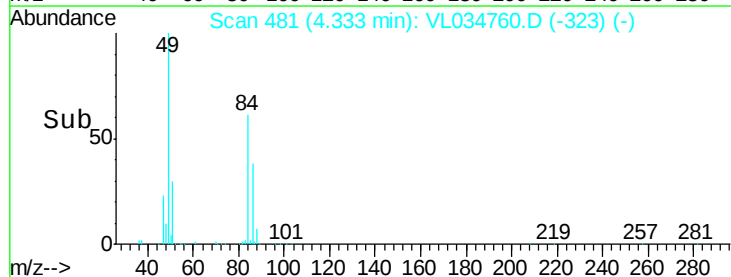
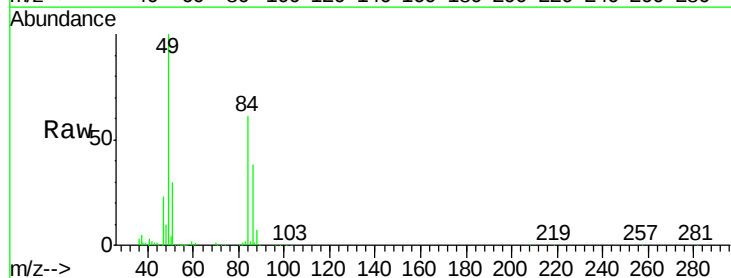
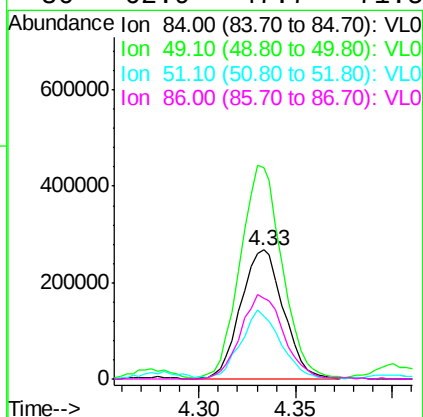
MMDadoda
 3/4/2020 4:48:57 PM

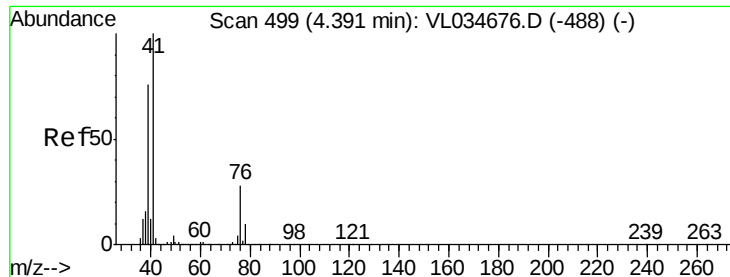


#20

Methylene Chloride
 Concen: 8.236 ppbv
 RT: 4.33 min Scan# 481
 Delta R.T. 0.01 min
 Lab File: VL034760.D
 Acq: 3 Mar 2020 11:52

Tgt Ion	Ratio	Lower	Upper
84	100		
49	162.8	122.8	184.2
51	48.2	38.6	58.0
86	62.9	47.7	71.5





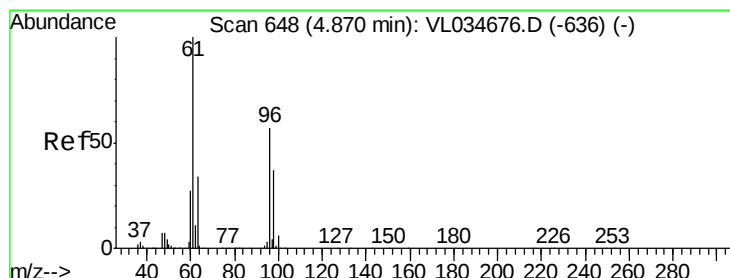
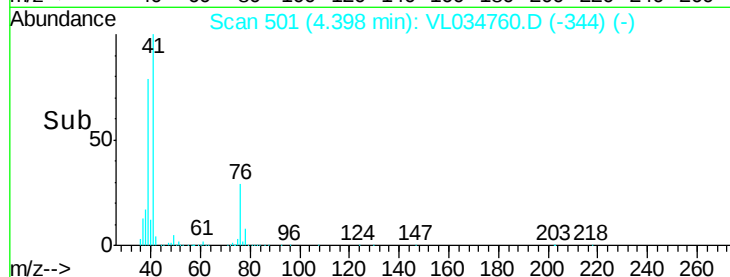
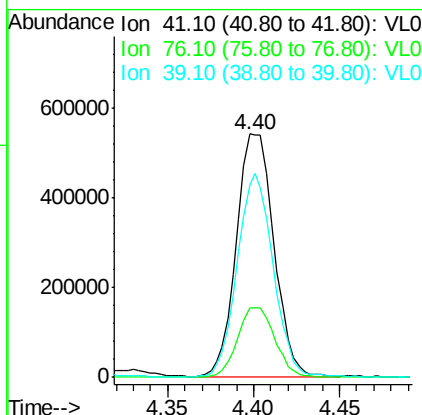
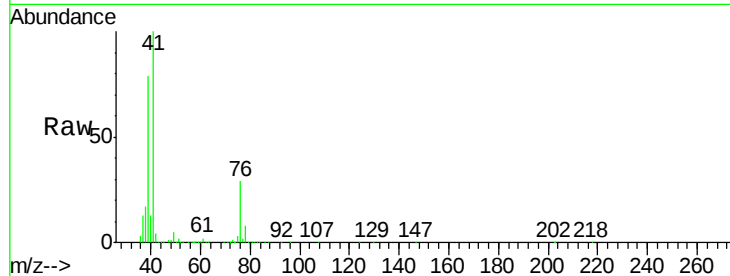
#21
Allvl Chloride
Concen: 9.283 ppbv
RT: 4.40 min Scan# 501
Delta R.T. 0.01 min
Lab File: VL034760.D
Acq: 3 Mar 2020 11:52

Instrument :
MSVOA_L
ClientSampleId :
VL0303ABS01

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.7	22.8	34.2
39	80.3	61.7	92.5

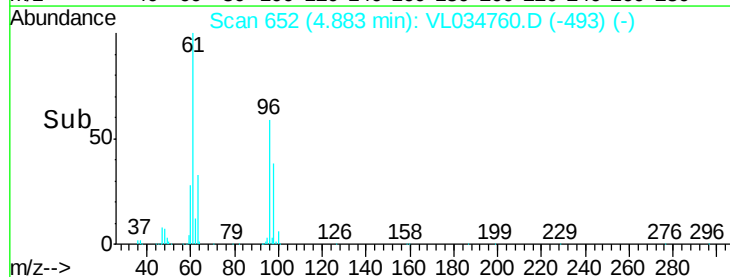
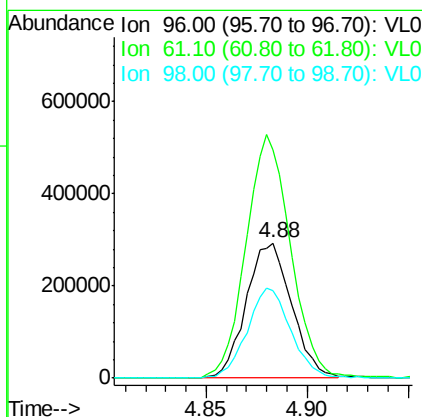
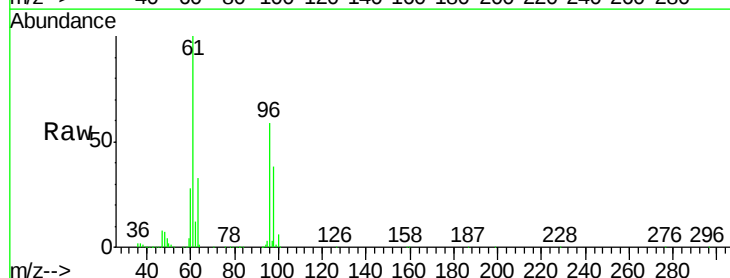
Manual Integrations
APPROVED

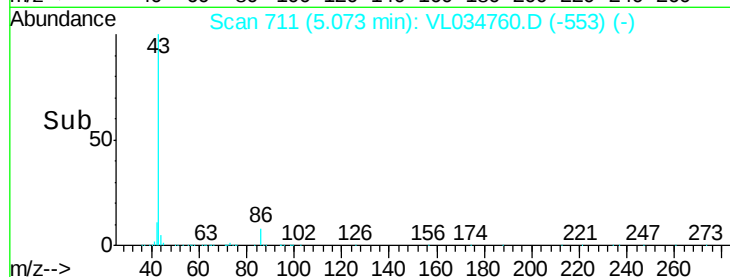
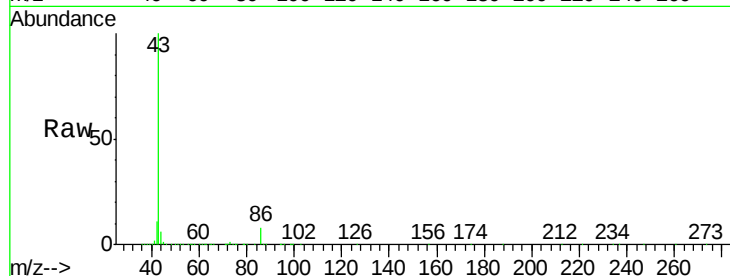
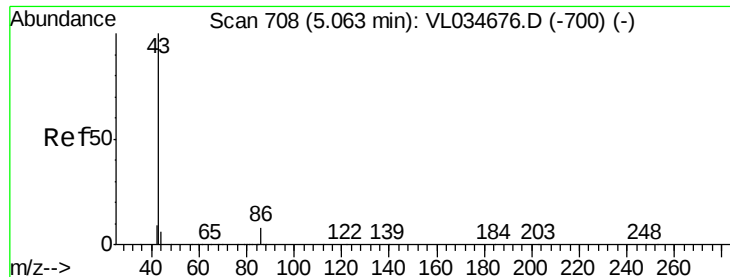
MMDadoda
3/4/2020 4:48:57 PM



#22
trans-1,2-Dichloroethene
Concen: 9.164 ppbv
RT: 4.88 min Scan# 652
Delta R.T. 0.01 min
Lab File: VL034760.D
Acq: 3 Mar 2020 11:52

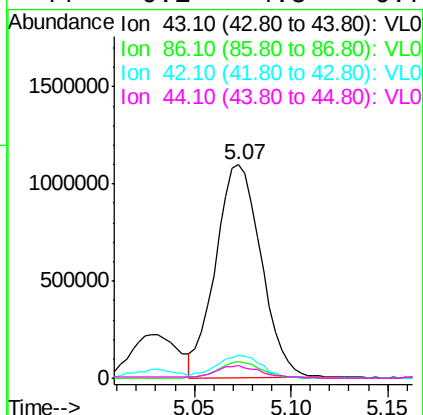
Tgt Ion	Ratio	Lower	Upper
96	100		
61	169.4	139.4	209.0
98	65.1	51.3	76.9





#23
 Vinyl Acetate
 Concen: 9.816 ppbv
 RT: 5.07 min Scan# 711
 Delta R.T. 0.01 min
 Lab File: VL034760.D
 Acq: 3 Mar 2020 11:52

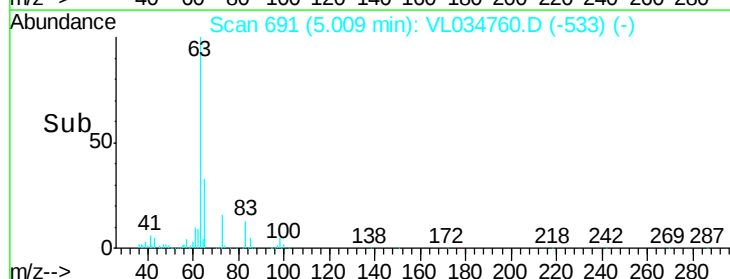
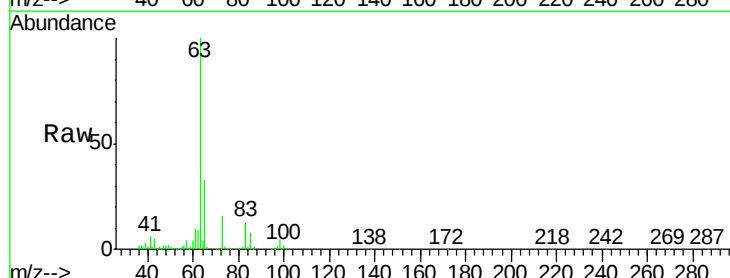
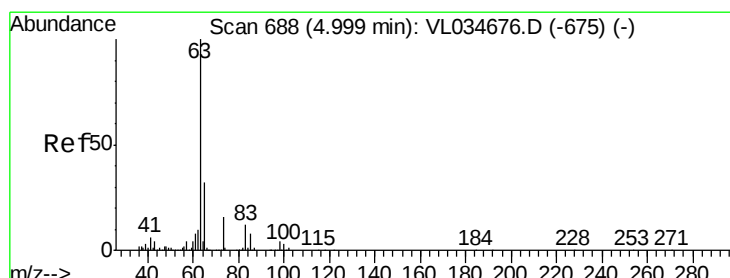
Tot Ion	43	Resp	1795757
Ion	Ratio	Lower	Upper
43	100		
86	7.9	6.0	9.0
42	10.9	8.0	12.0
44	6.1	4.5	6.7



Instrument :
 MSVOA_L
 ClientSampleId :
 VL0303ABS01

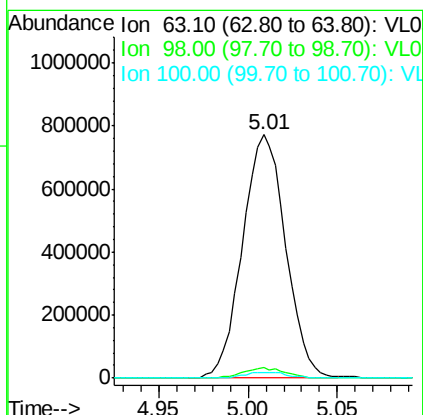
Manual Integrations
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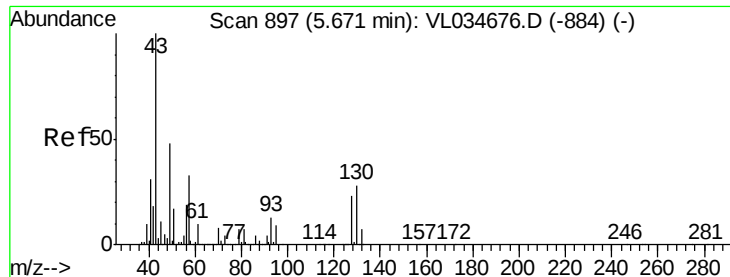
MMDadoda
 3/4/2020 4:48:57 PM



#24
 1,1-Dichloroethane
 Concen: 8.917 ppbv
 RT: 5.01 min Scan# 691
 Delta R.T. 0.01 min
 Lab File: VL034760.D
 Acq: 3 Mar 2020 11:52

Tgt Ion	63	Resp	1302789
Ion	Ratio	Lower	Upper
63	100		
98	4.5	2.1	6.2
100	2.5	1.4	4.0





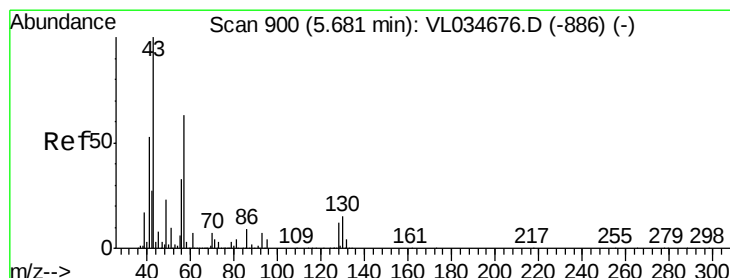
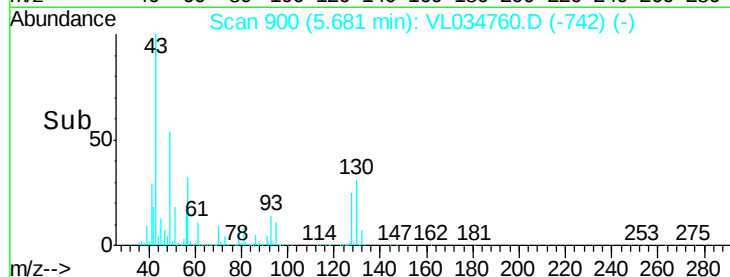
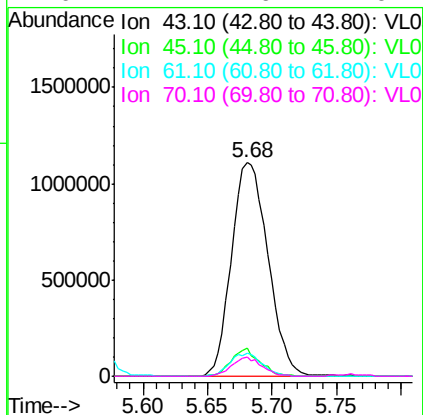
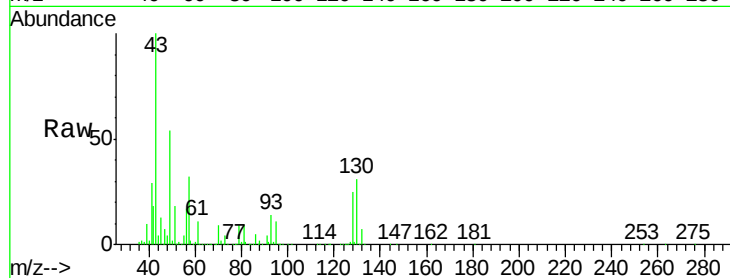
#25
Ethyl Acetate
Concen: 9.181 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.01 min
Lab File: VL034760.D
Acq: 3 Mar 2020 11:52

Instrument :
MSVOA_L
ClientSampleId :
VL0303ABS01

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	10.3	8.2	12.4	
61	9.7	7.8	11.6	
70	7.4	6.1	9.1	

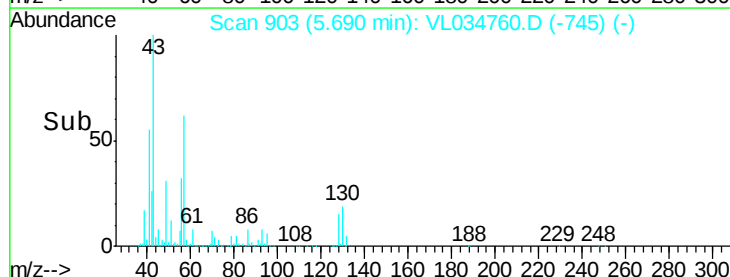
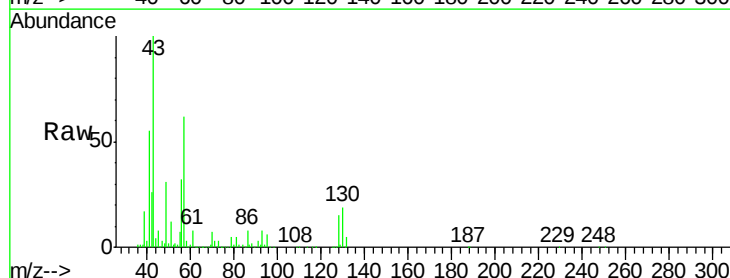
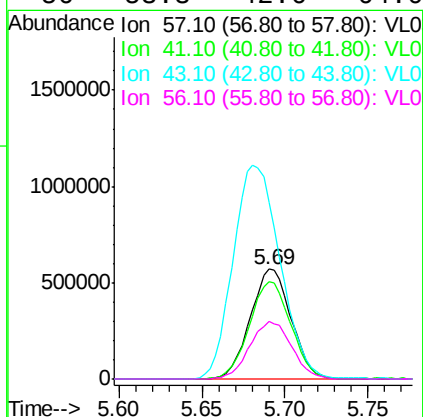
Manual Integrations
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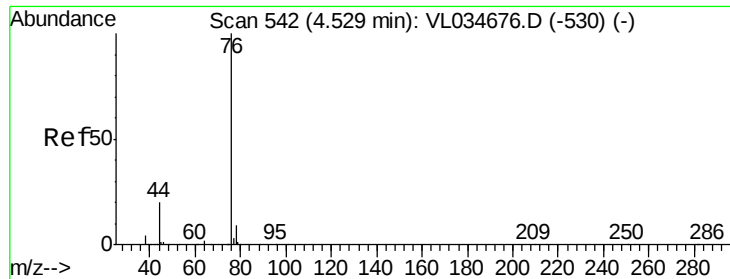
MMDadoda
3/4/2020 4:48:57 PM



#26
Hexane
Concen: 8.907 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.01 min
Lab File: VL034760.D
Acq: 3 Mar 2020 11:52

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	90.1	70.3	105.5	
43	224.1	177.0	265.4	
56	53.3	42.6	64.0	





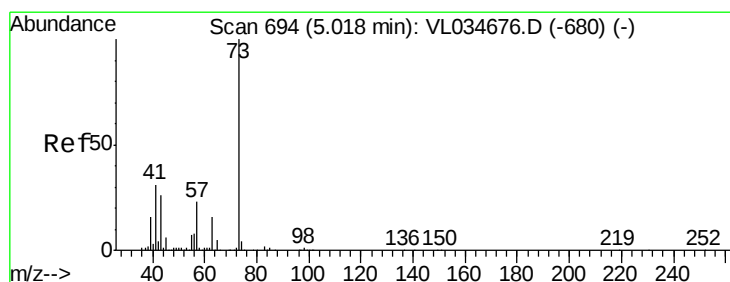
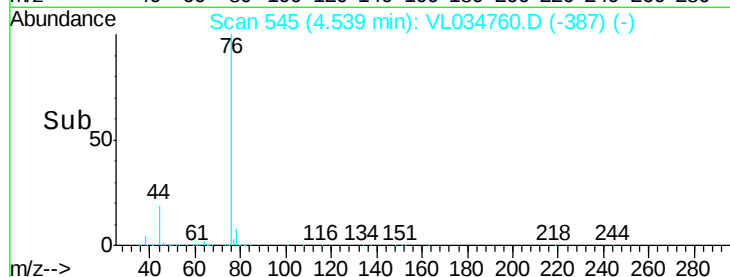
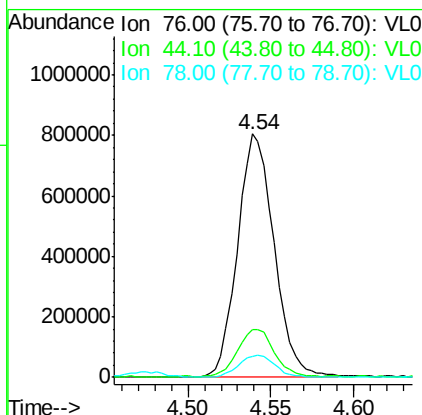
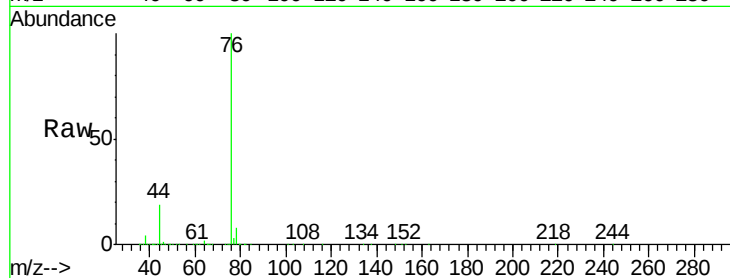
#27
Carbon Disulfide
Concen: 9.876 ppbv
RT: 4.54 min Scan# 545
Delta R.T. 0.01 min
Lab File: VL034760.D
Acq: 3 Mar 2020 11:52

Instrument :
MSVOA_L
ClientSampleId :
VL0303ABS01

Tot Ion: 76 Resp: 1230779
Ion Ratio Lower Upper
76 100
44 20.1 15.3 22.9
78 9.2 7.6 11.4

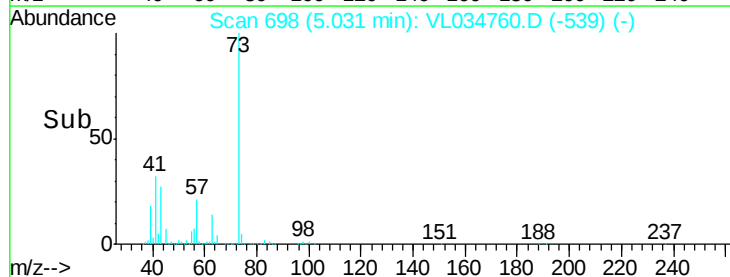
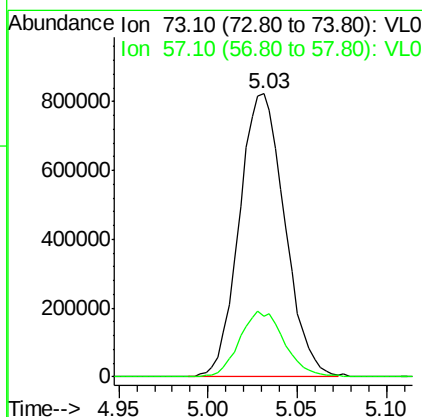
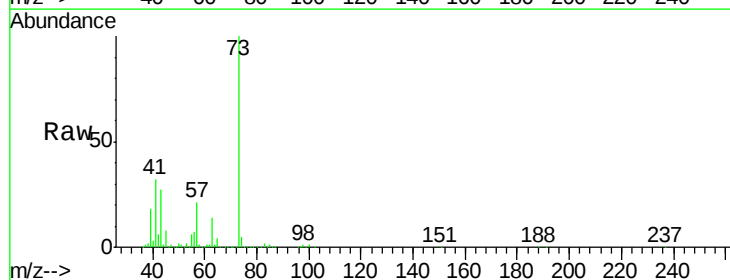
Manual Integrations
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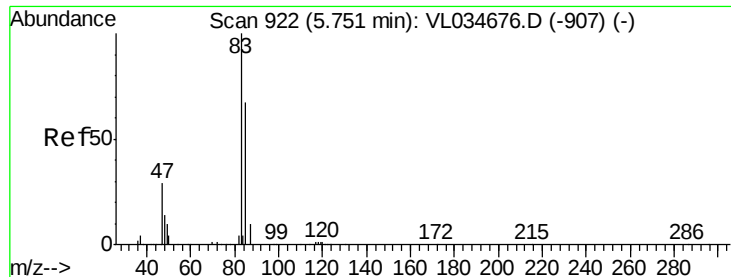
MMDadoda
3/4/2020 4:48:57 PM



#28
Methyl tert-Butyl Ether
Concen: 9.283 ppbv
RT: 5.03 min Scan# 698
Delta R.T. 0.01 min
Lab File: VL034760.D
Acq: 3 Mar 2020 11:52

Tgt Ion: 73 Resp: 1455975
Ion Ratio Lower Upper
73 100
57 23.0 18.6 28.0





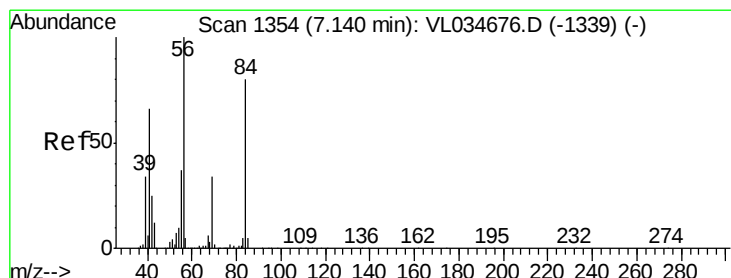
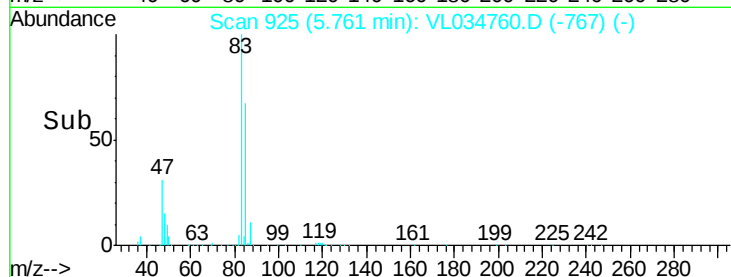
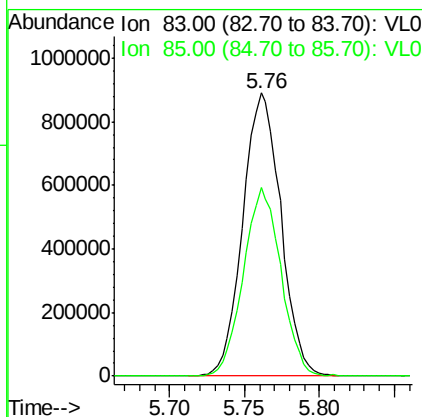
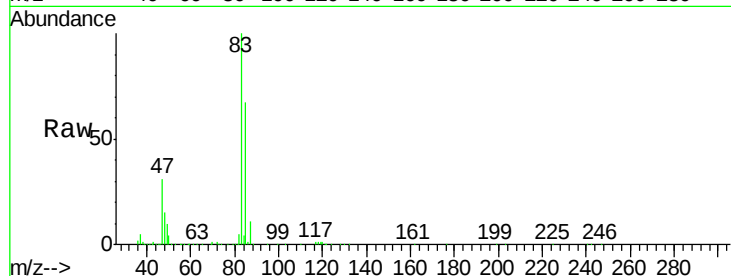
#29
Chloroform
Concen: 9.027 ppbv
RT: 5.76 min Scan# 925
Delta R.T. 0.01 min
Lab File: VL034760.D
Acq: 3 Mar 2020 11:52

Instrument :
MSVOA_L
ClientSampleId :
VL0303ABS01

Tot Ion: 83 Resp: 1578972
Ion Ratio Lower Upper
83 100
85 66.6 53.9 80.9

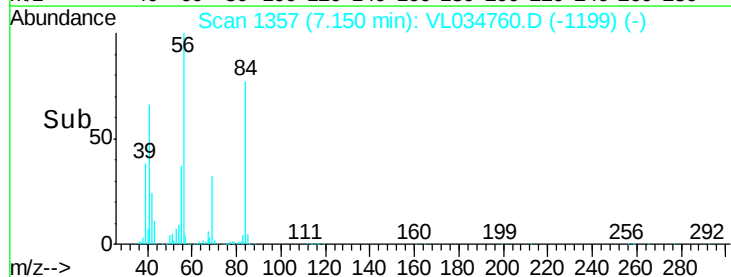
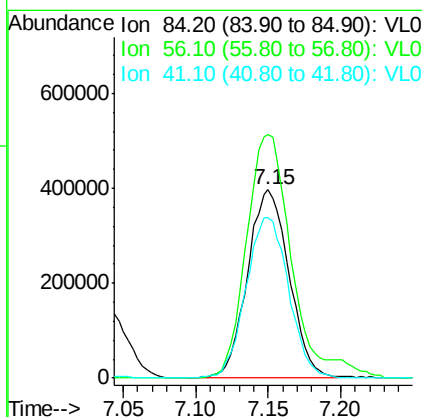
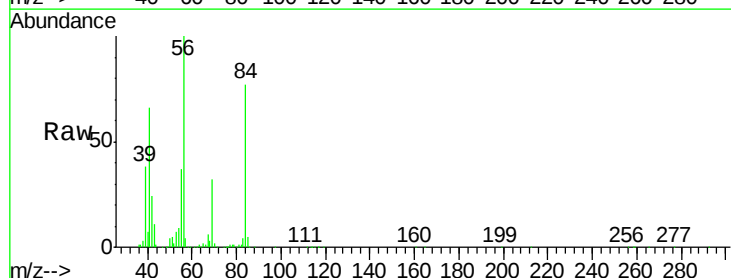
Manual Integrations
APPROVED

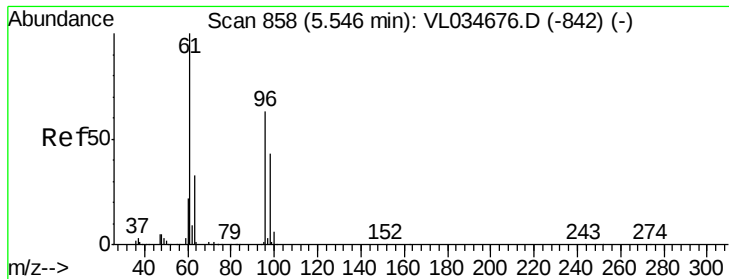
MMDadoda
3/4/2020 4:48:57 PM



#30
Cyclohexane
Concen: 9.323 ppbv
RT: 7.15 min Scan# 1357
Delta R.T. 0.01 min
Lab File: VL034760.D
Acq: 3 Mar 2020 11:52

Tgt Ion: 84 Resp: 793231
Ion Ratio Lower Upper
84 100
56 141.6 113.4 170.2
41 87.4 68.2 102.4





#31

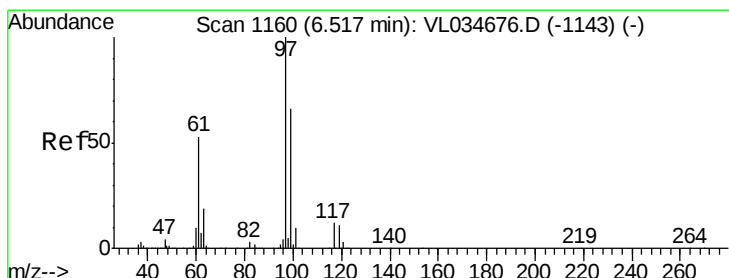
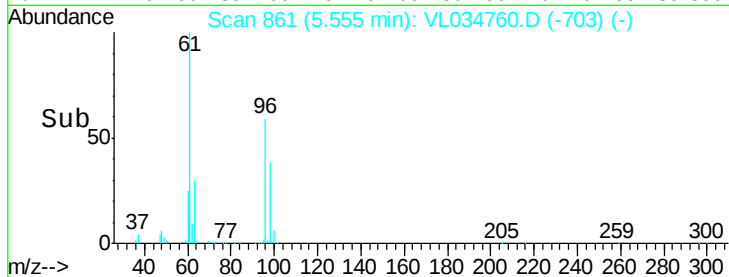
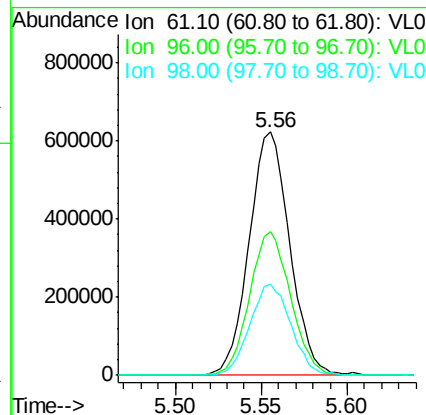
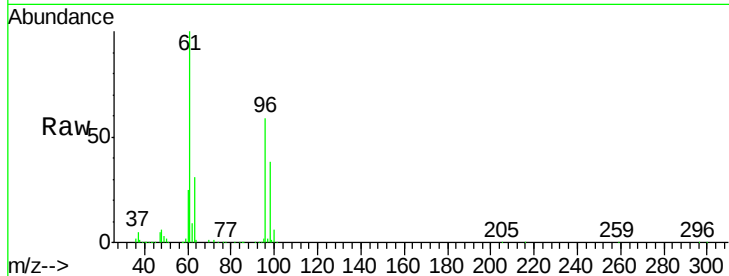
cis-1,2-Dichloroethene
 Concen: 9.444 ppbv
 RT: 5.56 min Scan# 861
 Delta R.T. 0.01 min
 Lab File: VL034760.D
 Acq: 3 Mar 2020 11:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0303ABS01

Tot Ion	Ratio	Lower	Upper
61	100		
96	59.0	50.2	75.2
98	37.5	34.3	51.5

Manual Integrations
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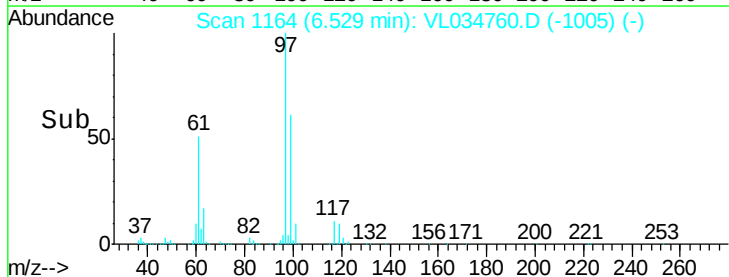
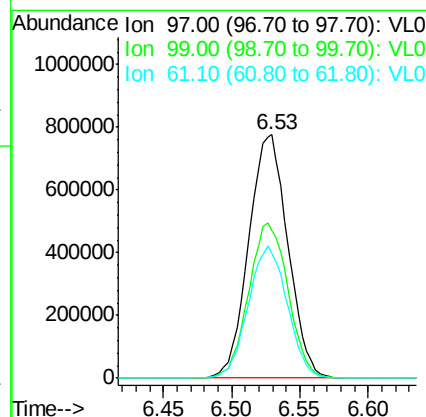
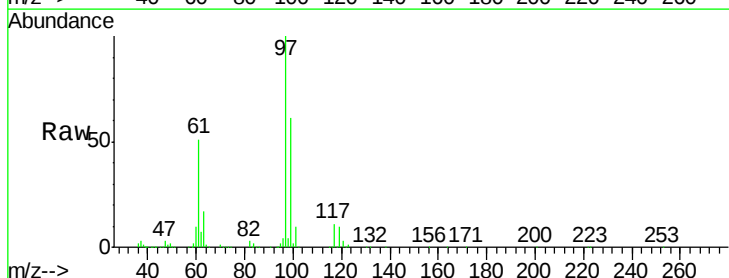
MMDadoda
 3/4/2020 4:48:57 PM

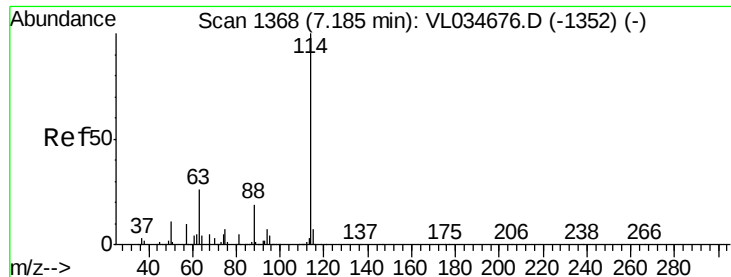


#32

1,1,1-Trichloroethane
 Concen: 9.469 ppbv
 RT: 6.53 min Scan# 1164
 Delta R.T. 0.01 min
 Lab File: VL034760.D
 Acq: 3 Mar 2020 11:52

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.0	52.3	78.5
61	54.0	42.8	64.2





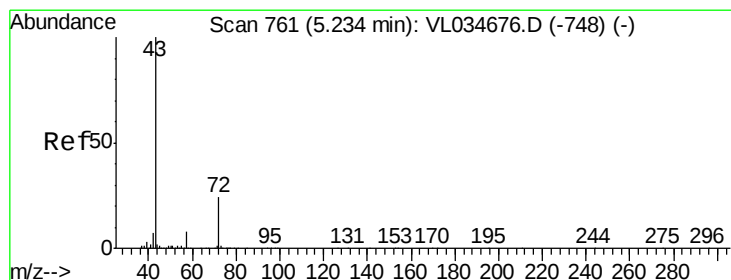
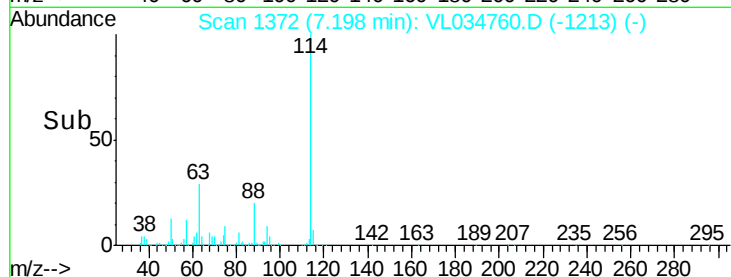
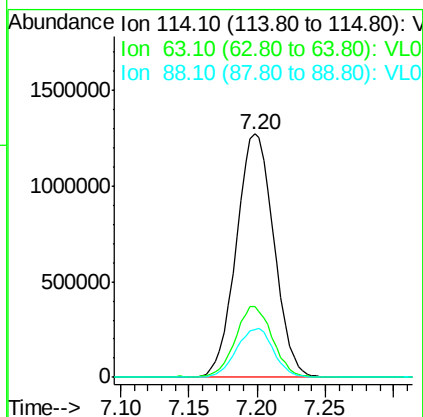
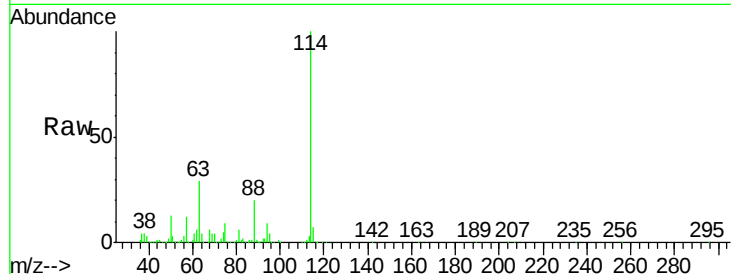
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1372
 Delta R.T. 0.01 min
 Lab File: VL034760.D
 Acq: 3 Mar 2020 11:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0303ABS01

Tot Ion	Ratio	Lower	Upper
114	100		
63	29.3	22.9	34.3
88	19.9	15.8	23.6

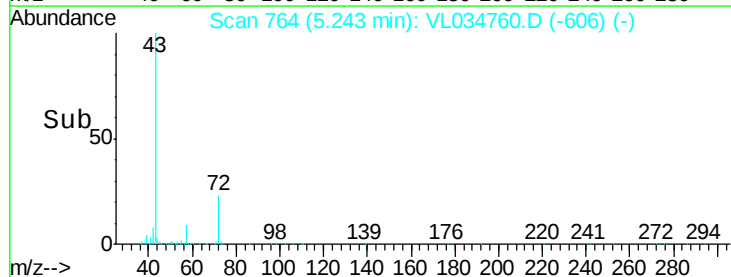
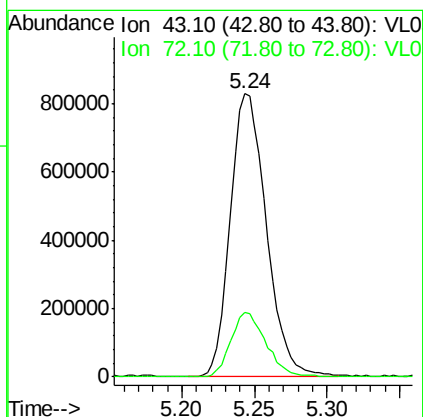
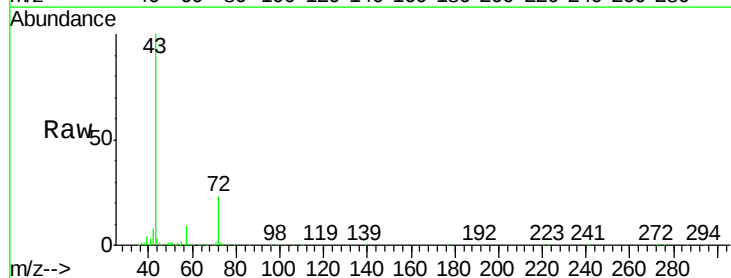
Manual Integrations
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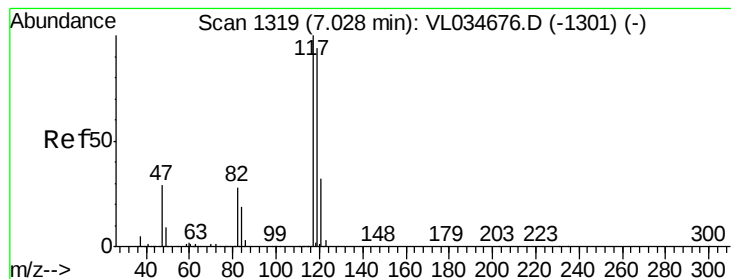
MMDadoda
 3/4/2020 4:48:57 PM



#34
 2-Butanone
 Concen: 9.339 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. 0.01 min
 Lab File: VL034760.D
 Acq: 3 Mar 2020 11:52

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.4	18.2	27.2





#35

Carbon Tetrachloride

Concen: 9.843 ppbv

RT: 7.04 min Scan# 1322

Delta R.T. 0.01 min

Lab File: VL034760.D

Acq: 3 Mar 2020 11:52

Instrument :

MSVOA_L

ClientSampleId :

VL0303ABS01

Tot Ion:117 Resp: 1602382

Ion Ratio Lower Upper

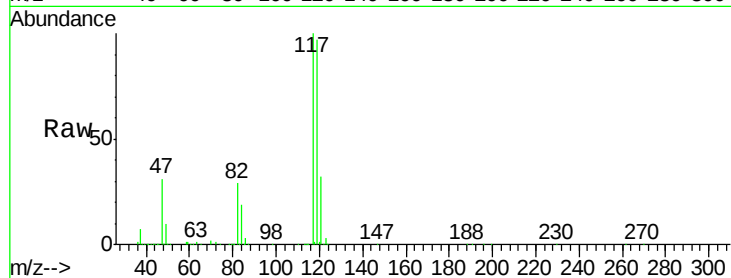
117 100

119 96.9 75.5 113.3

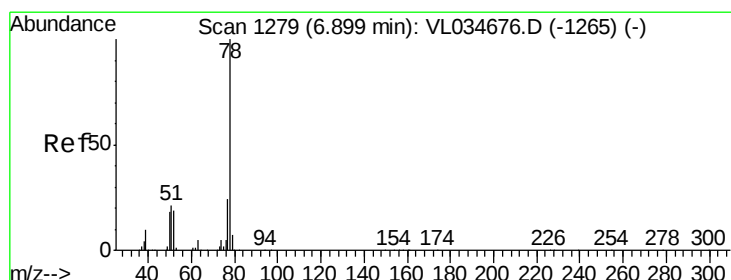
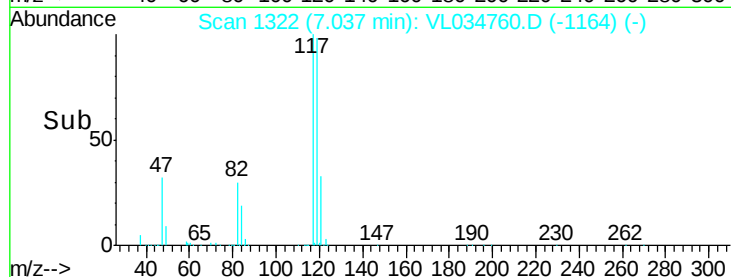
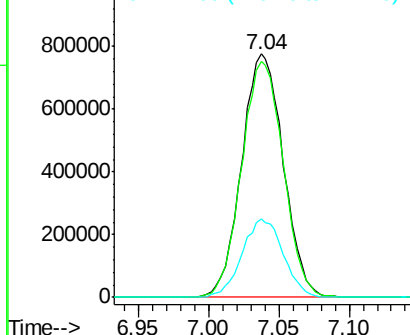
121 32.1 25.4 38.0

Manual Integrations
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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: 9.073 ppbv

RT: 6.91 min Scan# 1283

Delta R.T. 0.01 min

Lab File: VL034760.D

Acq: 3 Mar 2020 11:52

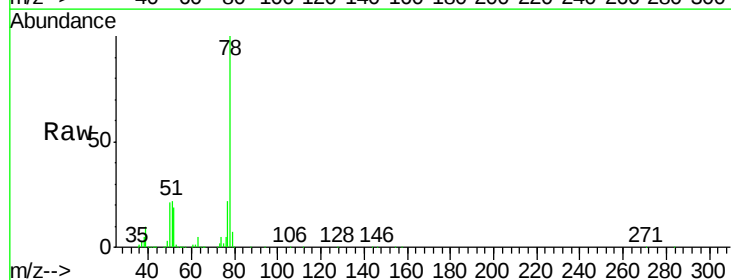
Tgt Ion: 78 Resp: 1904840

Ion Ratio Lower Upper

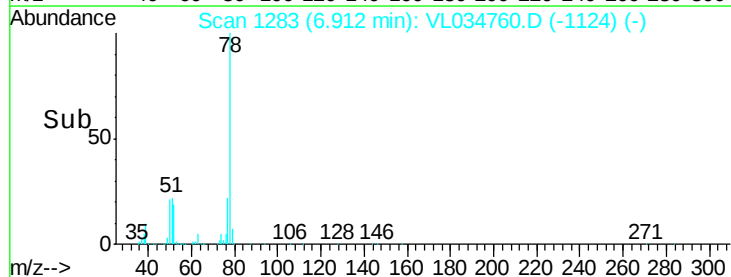
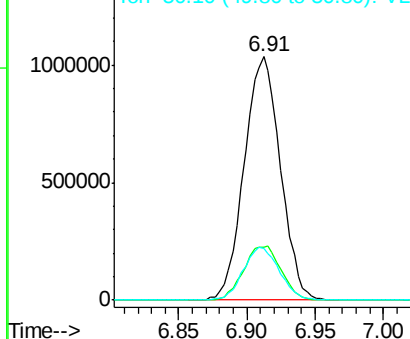
78 100

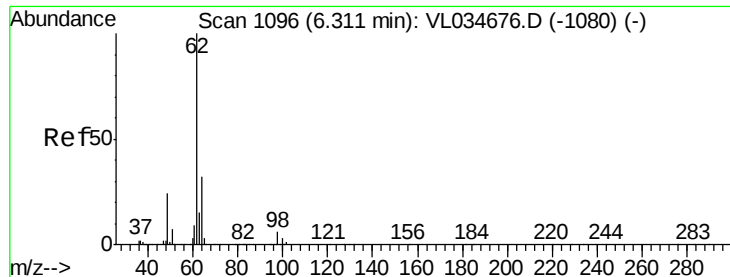
77 21.8 19.5 29.3

50 21.2 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





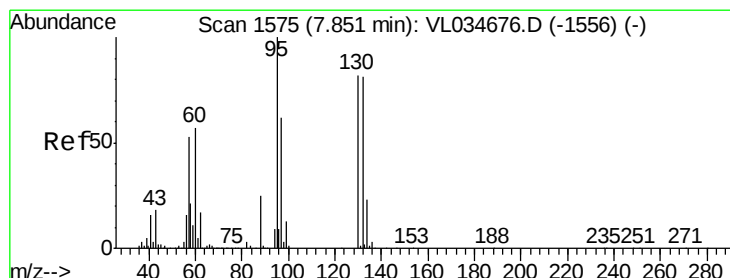
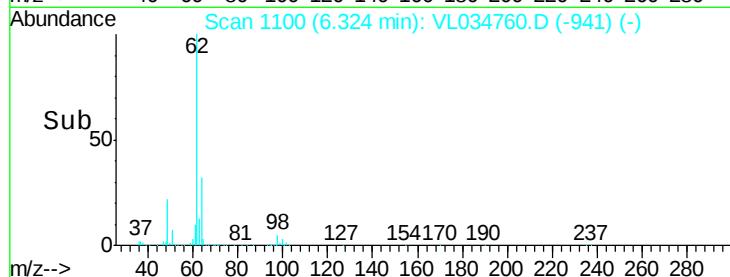
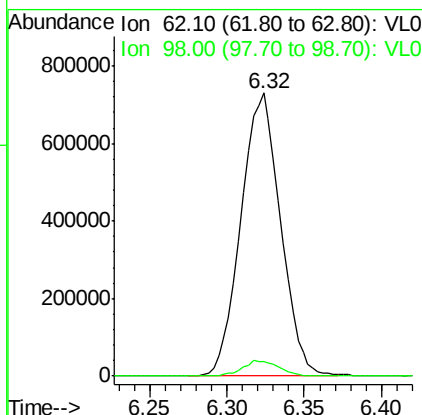
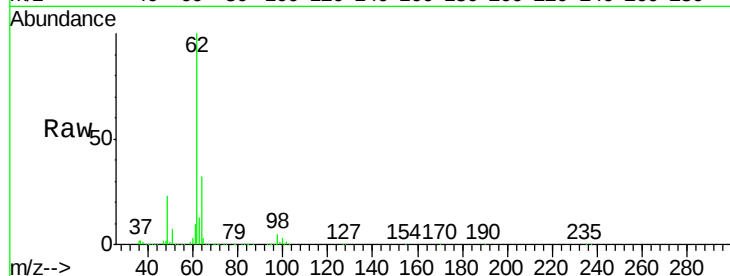
#37
 1,2-Dichloroethane
 Concen: 9.833 ppbv
 RT: 6.32 min Scan# 1100
 Delta R.T. 0.01 min
 Lab File: VL034760.D
 Acq: 3 Mar 2020 11:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0303ABS01

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.3	4.7	7.1

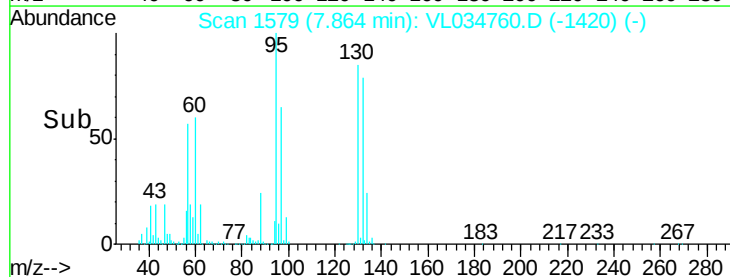
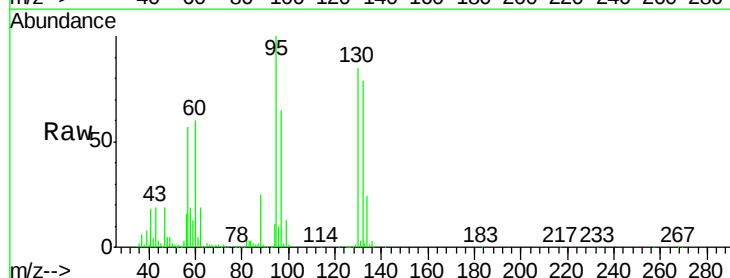
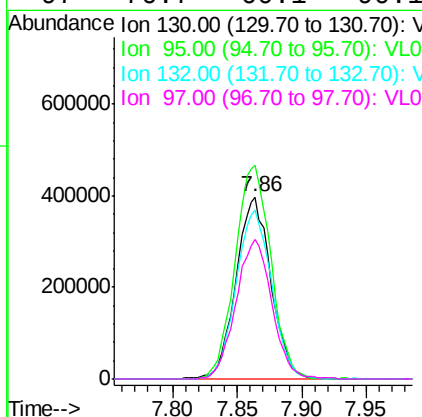
Manual Integrations
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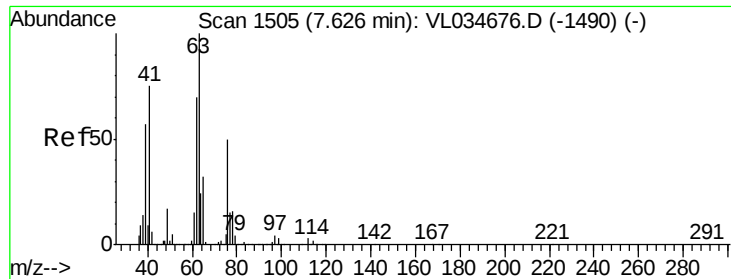
MMDadoda
 3/4/2020 4:48:57 PM



#38
 Trichloroethene
 Concen: 9.173 ppbv
 RT: 7.86 min Scan# 1579
 Delta R.T. 0.01 min
 Lab File: VL034760.D
 Acq: 3 Mar 2020 11:52

Tgt Ion	Ratio	Lower	Upper
130	100		
95	117.6	97.1	145.7
132	92.7	78.3	117.5
97	76.7	60.1	90.1





#39

1,2-Dichloropropane

Concen: 9.223 ppbv

RT: 7.64 min Scan# 1509

Delta R.T. 0.01 min

Lab File: VL034760.D

Acq: 3 Mar 2020 11:52

Instrument :

MSVOA_L

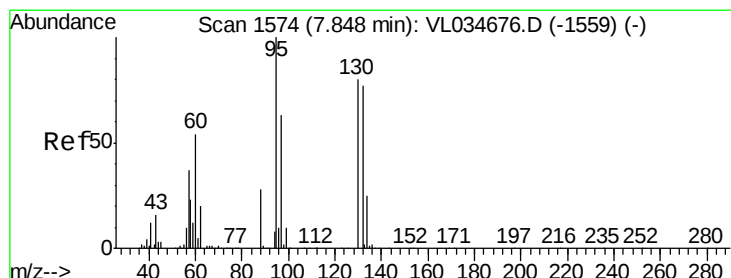
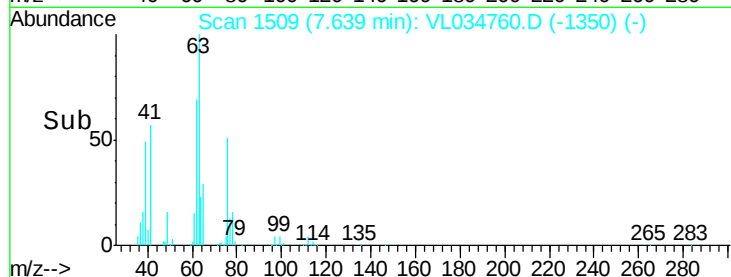
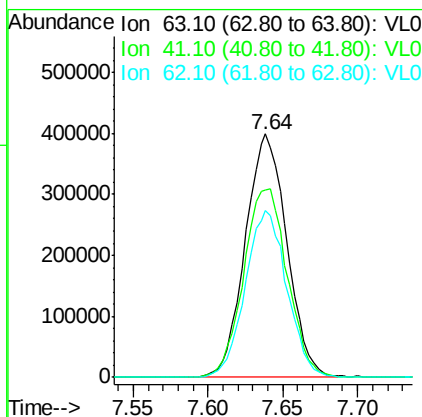
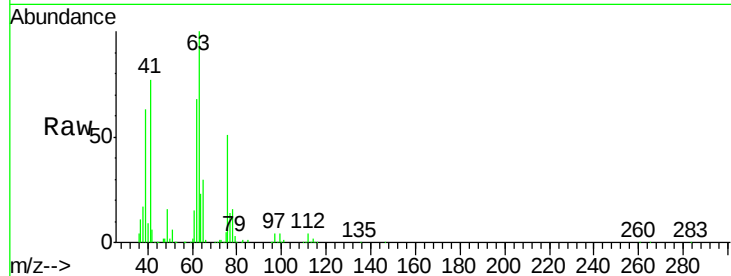
ClientSampleId :

VL0303ABS01

Tot Ion:	63	Resp:	770353
Ion Ratio	Lower	Upper	
63	100		
41	77.2	60.2	90.4
62	68.3	56.3	84.5

Manual Integrations
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3/4/2020 4:48:57 PM



#40

1,4-Dioxane

Concen: 9.948 ppbv

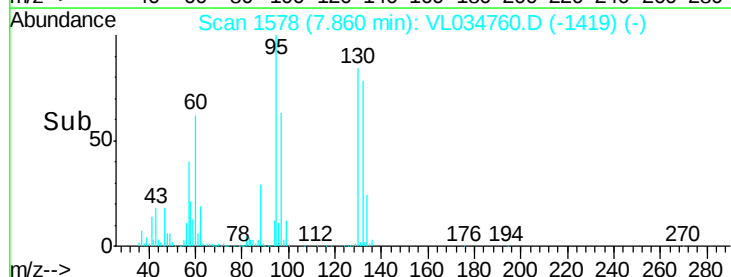
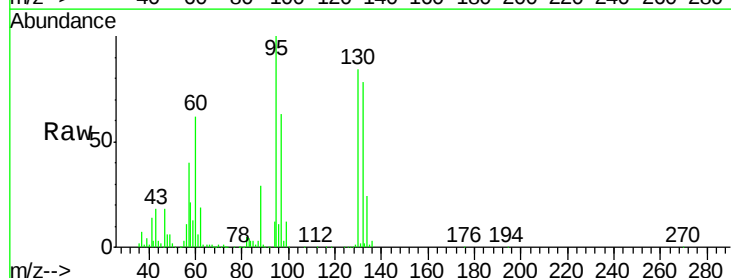
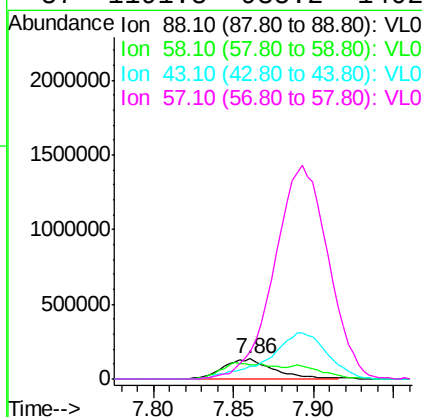
RT: 7.86 min Scan# 1578

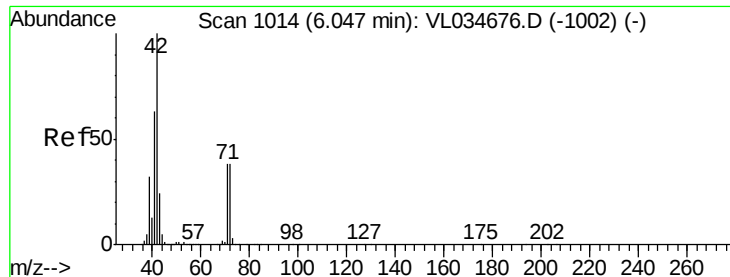
Delta R.T. 0.01 min

Lab File: VL034760.D

Acq: 3 Mar 2020 11:52

Tgt Ion:	88	Resp:	282569
Ion Ratio	Lower	Upper	
88	100		
58	139.2	104.6	156.8
43	278.9	212.9	319.3
57	1191.8	935.2	1402.8





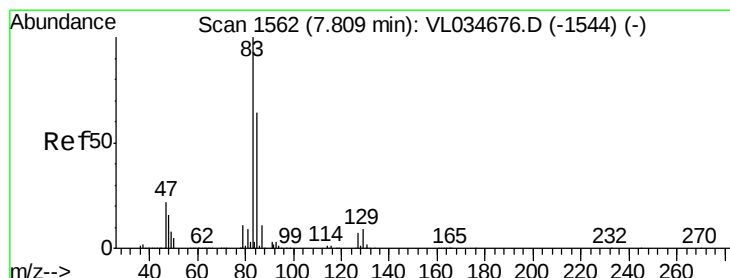
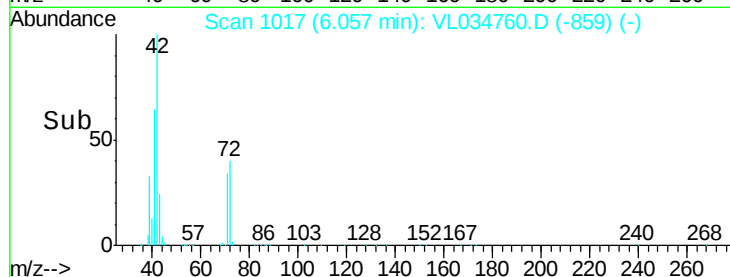
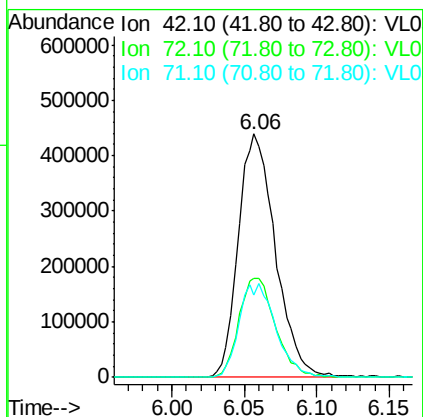
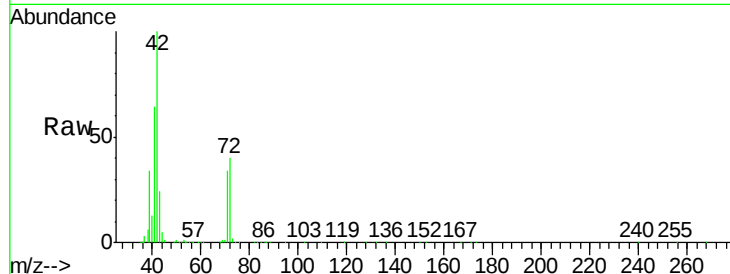
#41
Tetrahydrofuran
Concen: 9.673 ppbv
RT: 6.06 min Scan# 1017
Delta R.T. 0.01 min
Lab File: VL034760.D
Acq: 3 Mar 2020 11:52

Instrument :
MSVOA_L
ClientSampleId :
VL0303ABS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.2	31.7	47.5
71	38.3	30.7	46.1

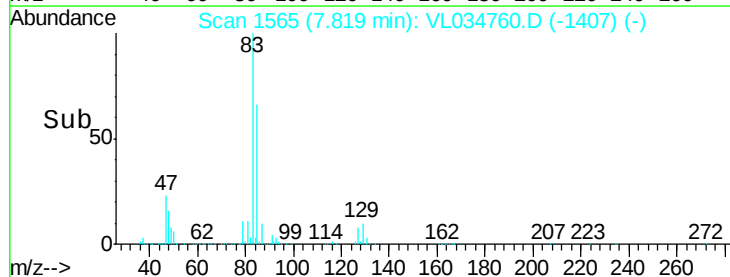
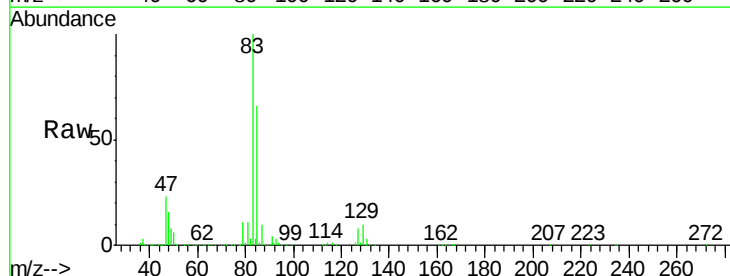
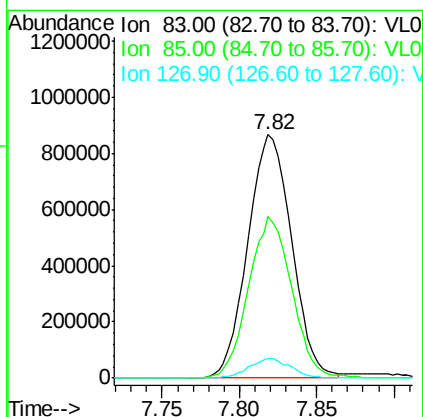
Manual Integrations
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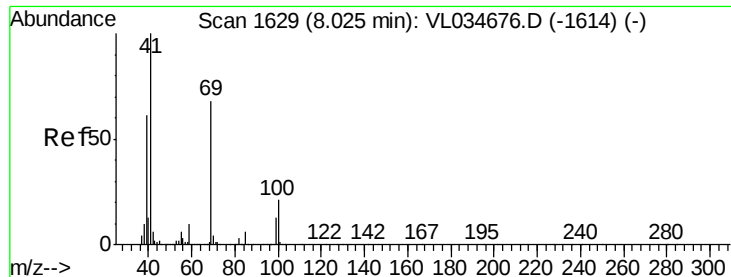
MMDadoda
3/4/2020 4:48:57 PM



#42
Bromodichloromethane
Concen: 9.899 ppbv
RT: 7.82 min Scan# 1565
Delta R.T. 0.01 min
Lab File: VL034760.D
Acq: 3 Mar 2020 11:52

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.3	51.1	76.7
127	8.2	5.8	8.8





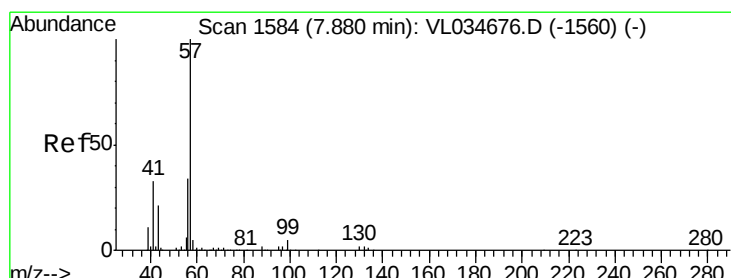
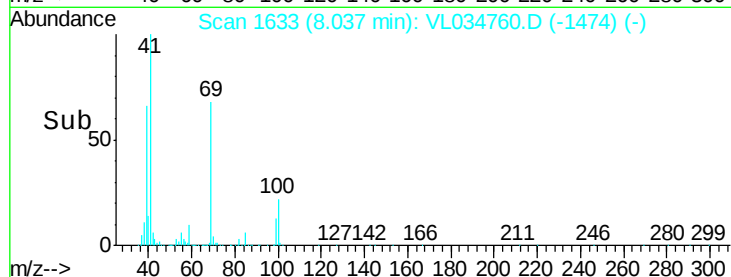
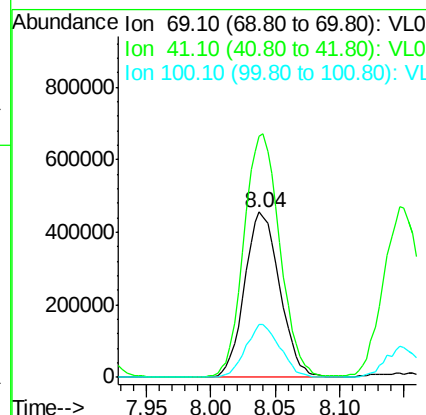
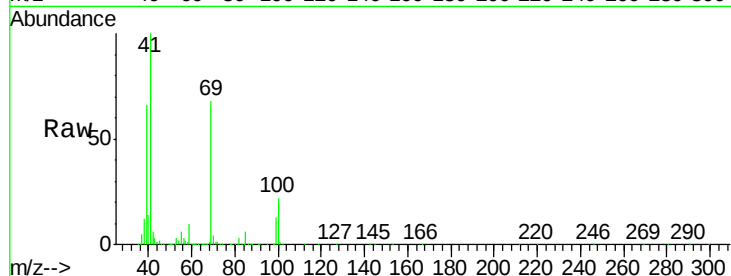
#43
Methvl Methacrilate
Concen: 9.818 ppbv
RT: 8.04 min Scan# 1633
Delta R.T. 0.01 min
Lab File: VL034760.D
Acq: 3 Mar 2020 11:52

Instrument :
MSVOA_L
ClientSampleId :
VL0303ABS01

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	151.0	118.2	177.2	
100	31.2	24.2	36.2	

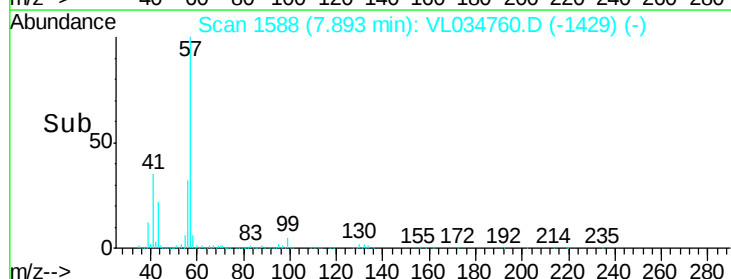
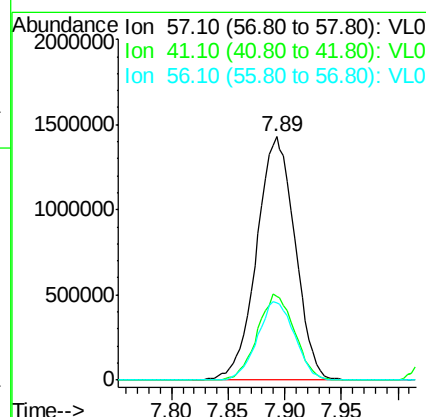
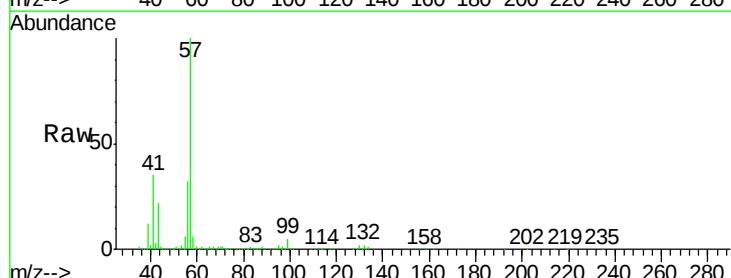
Manual Integrations
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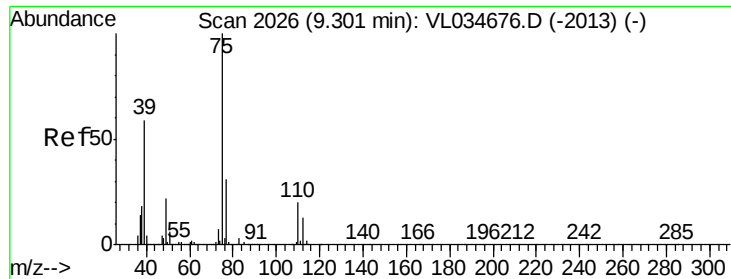
MMDadoda
3/4/2020 4:48:57 PM



#44
2,2,4-Trimethylpentane
Concen: 9.162 ppbv
RT: 7.89 min Scan# 1588
Delta R.T. 0.01 min
Lab File: VL034760.D
Acq: 3 Mar 2020 11:52

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	34.4	26.0	39.0	
56	31.4	25.6	38.4	





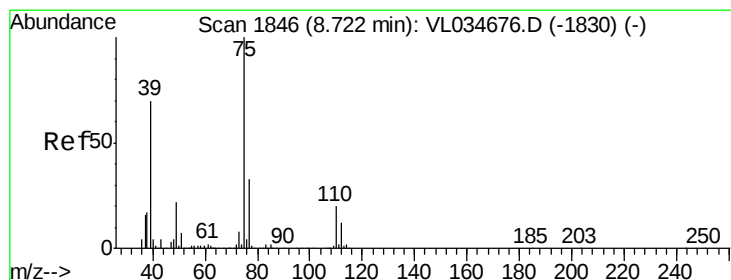
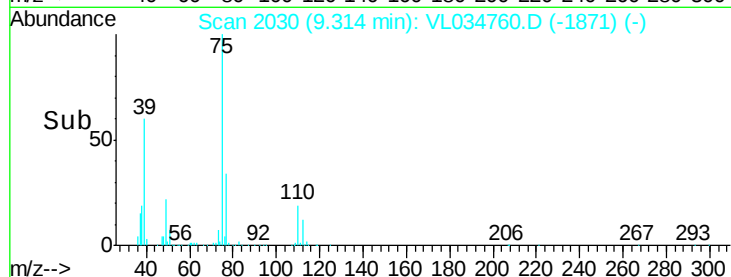
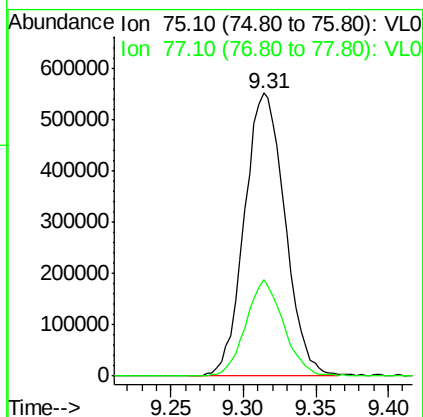
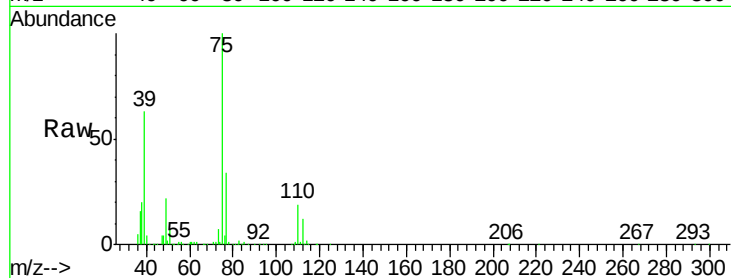
#45
t-1,3-Dichloropropene
Concen: 11.154 ppbv
RT: 9.31 min Scan# 2030
Delta R.T. 0.01 min
Lab File: VL034760.D
Acq: 3 Mar 2020 11:52

Instrument :
MSVOA_L
ClientSampleId :
VL0303ABS01

Tot Ion: 75 Resp: 1074768
Ion Ratio Lower Upper
75 100
77 34.0 25.3 37.9

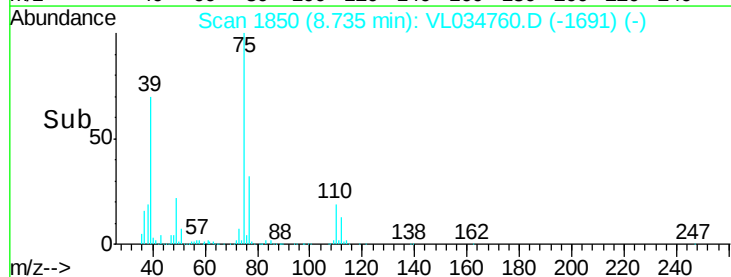
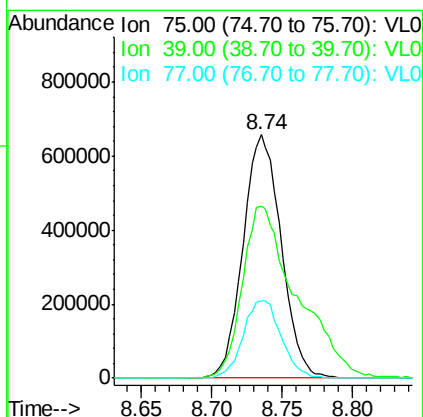
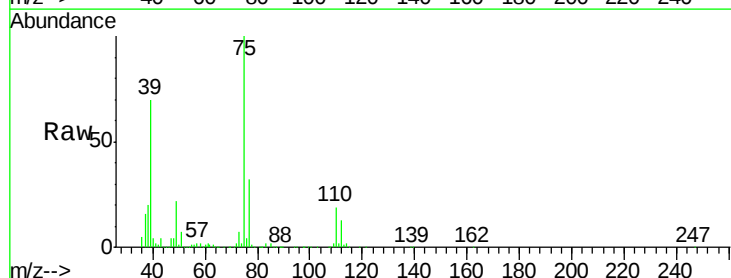
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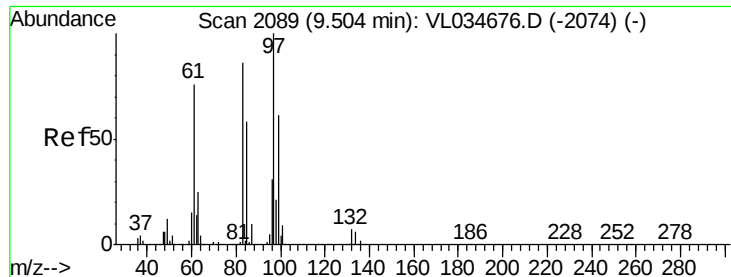
MMDadoda
3/4/2020 4:48:57 PM



#46
cis-1,3-Dichloropropene
Concen: 10.770 ppbv
RT: 8.74 min Scan# 1850
Delta R.T. 0.01 min
Lab File: VL034760.D
Acq: 3 Mar 2020 11:52

Tgt Ion: 75 Resp: 1244598
Ion Ratio Lower Upper
75 100
39 70.4 55.7 83.5
77 31.9 26.3 39.5





#47

1,1,2-Trichloroethane

Concen: 9.508 ppbv

RT: 9.51 min Scan# 2092

Delta R.T. 0.01 min

Lab File: VL034760.D

Acq: 3 Mar 2020 11:52

Instrument :

MSVOA_L

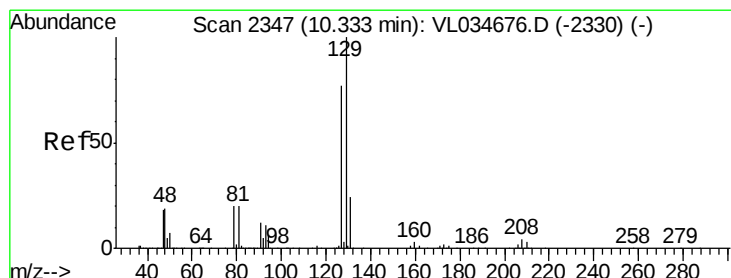
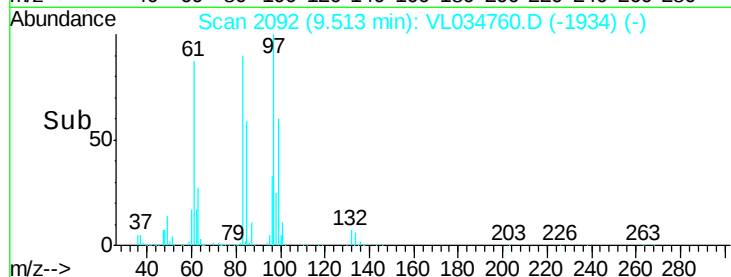
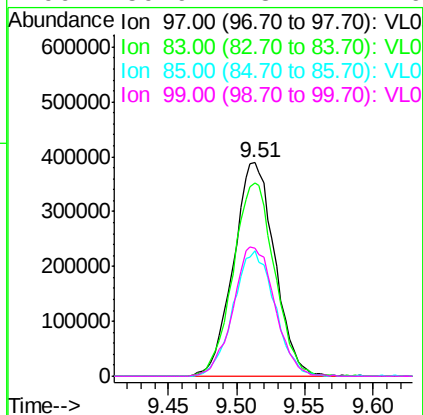
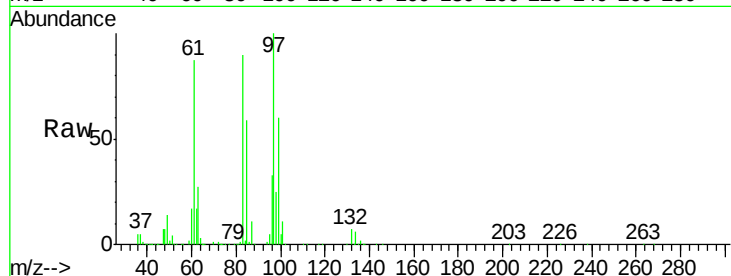
ClientSampleId :

VL0303ABS01

Tot Ion:	97	Resp:	814697
Ion Ratio	Lower	Upper	
97	100		
83	90.3	69.4	104.0
85	58.5	46.4	69.6
99	59.9	48.4	72.6

Manual Integrations
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#48

Dibromochloromethane

Concen: 10.456 ppbv

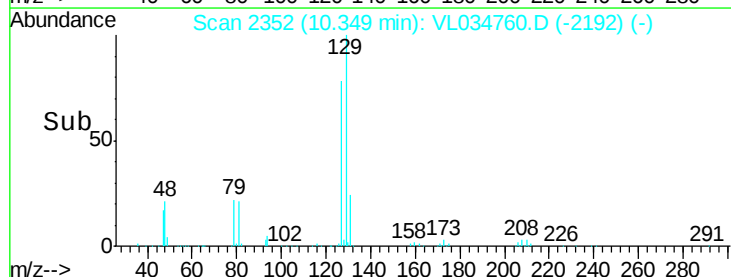
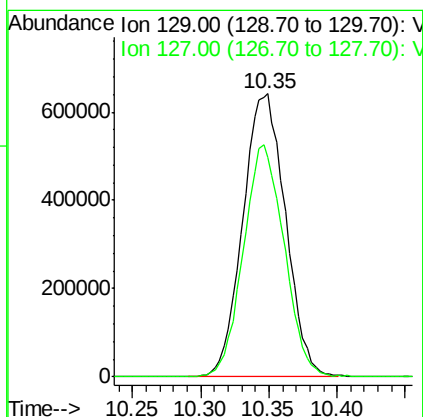
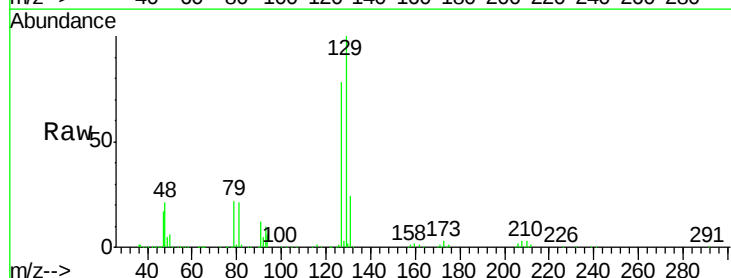
RT: 10.35 min Scan# 2352

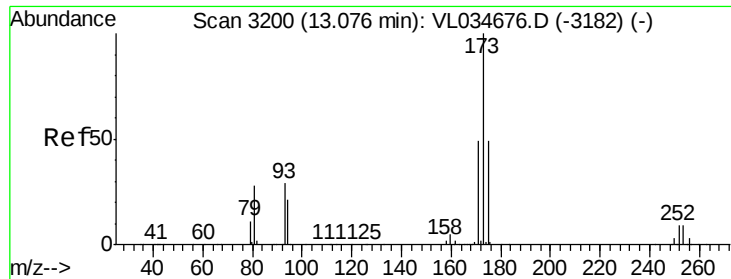
Delta R.T. 0.02 min

Lab File: VL034760.D

Acq: 3 Mar 2020 11:52

Tgt Ion:	129	Resp:	1393144
Ion Ratio	Lower	Upper	
129	100		
127	78.5	39.3	117.8





#49

Bromoform

Concen: 10.675 ppbv

RT: 13.09 min Scan# 3205

Delta R.T. 0.02 min

Lab File: VL034760.D

Acq: 3 Mar 2020 11:52

Instrument :

MSVOA_L

ClientSampleId :

VL0303ABS01

Tot Ion:173 Resp: 1233253

Ion Ratio Lower Upper

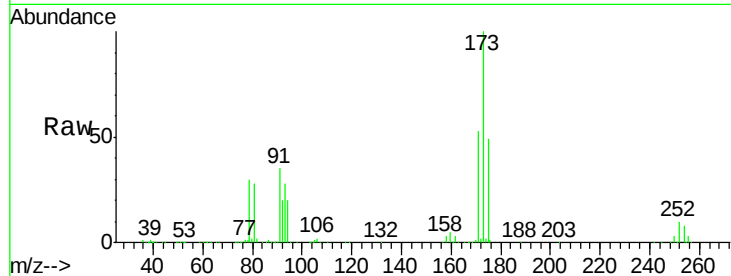
173 100

175 48.9 38.6 58.0

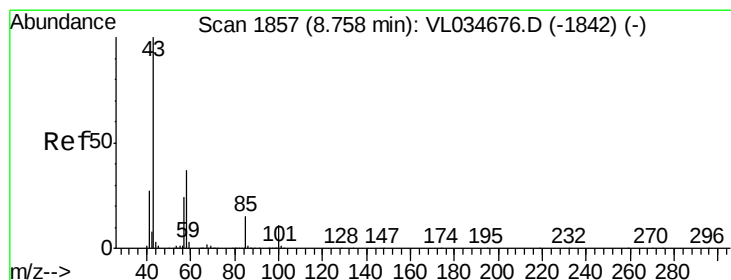
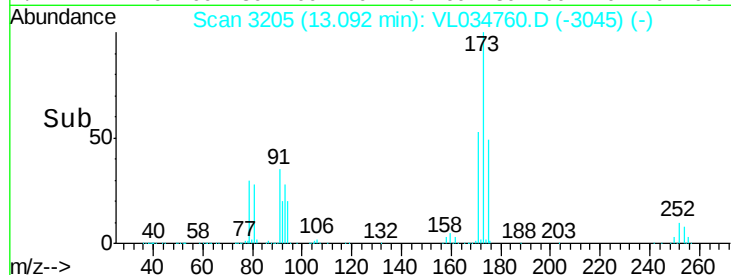
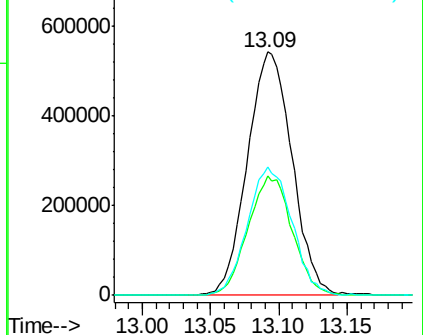
171 52.8 41.5 62.3

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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: 10.121 ppbv

RT: 8.77 min Scan# 1860

Delta R.T. 0.01 min

Lab File: VL034760.D

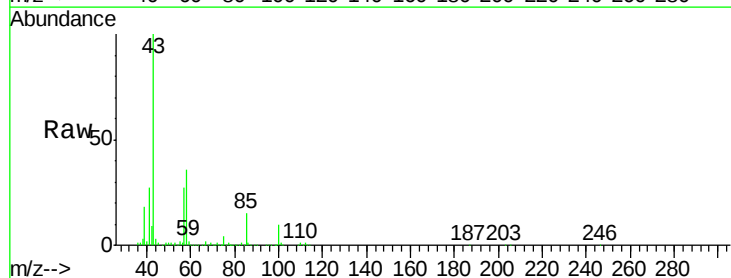
Acq: 3 Mar 2020 11:52

Tgt Ion: 43 Resp: 2193206

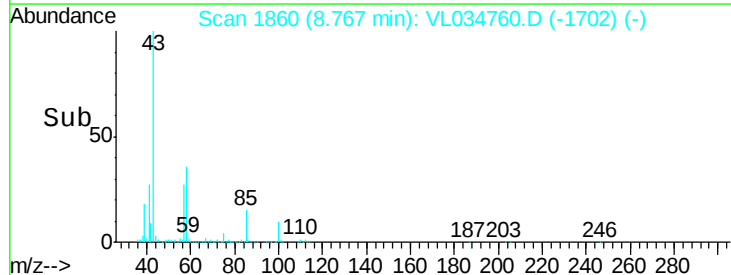
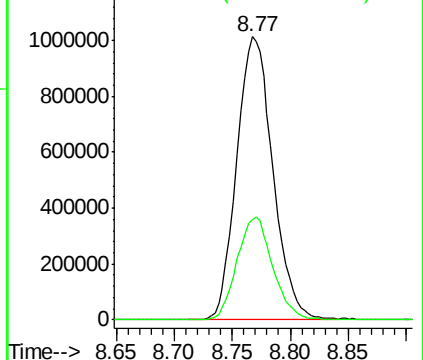
Ion Ratio Lower Upper

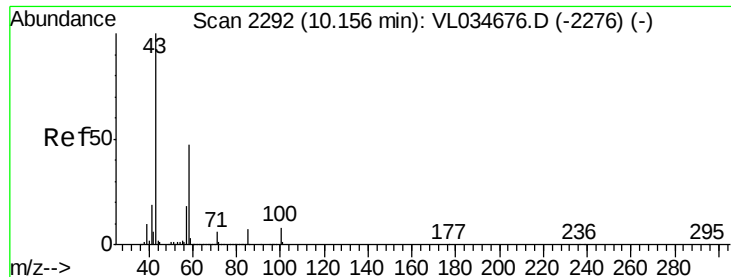
43 100

58 35.9 29.0 43.6



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





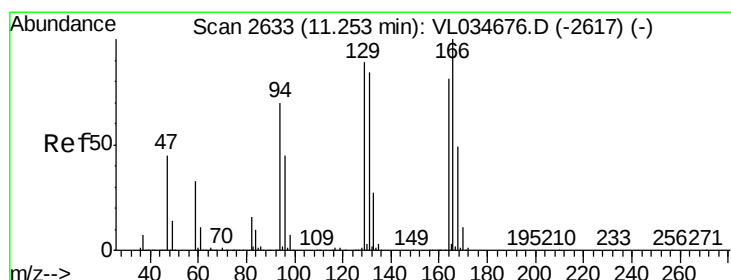
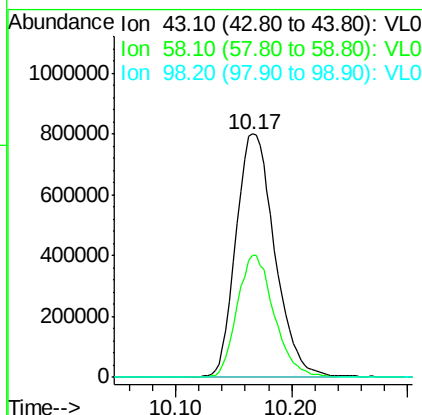
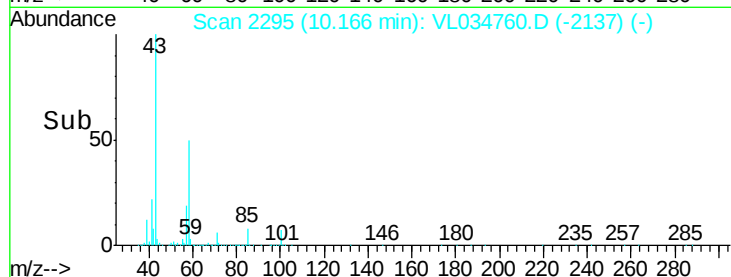
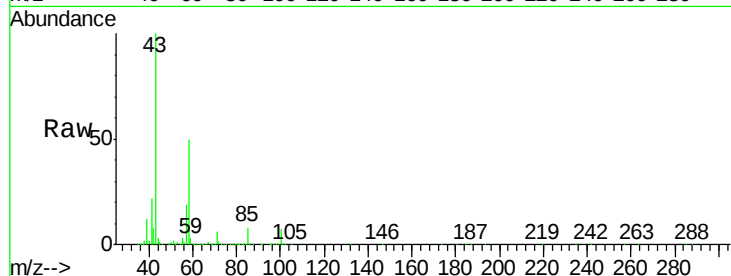
#51
2-Hexanone
Concen: 10.861 ppbv
RT: 10.17 min Scan# 2295
Delta R.T. 0.01 min
Lab File: VL034760.D
Acq: 3 Mar 2020 11:52

Instrument :
MSVOA_L
ClientSampleId :
VL0303ABS01

Tot Ion: 43 Resp: 1852207
Ion Ratio Lower Upper
43 100
58 48.2 39.4 59.0
98 0.4 0.2 0.2#

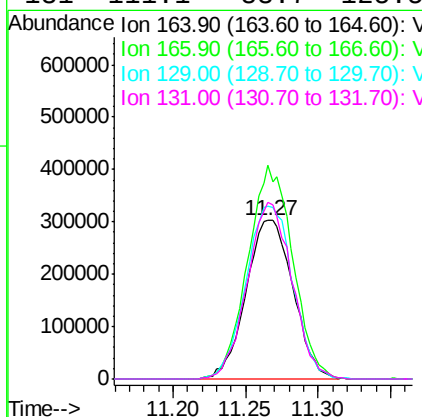
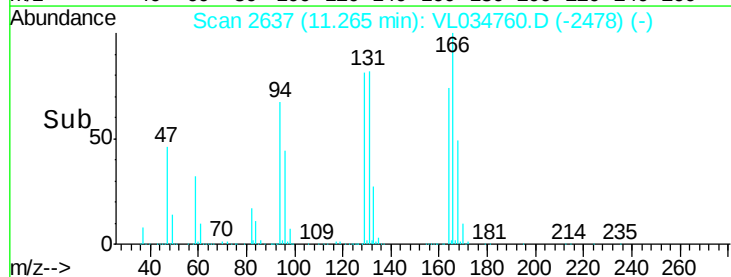
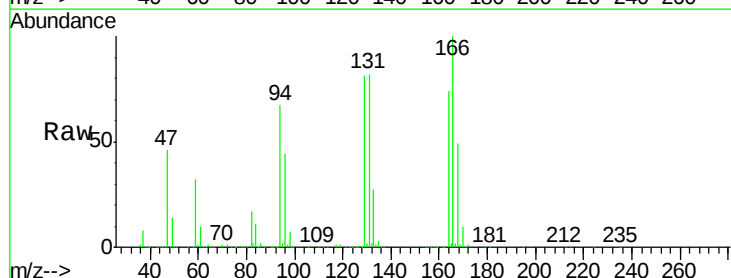
Manual Integrations
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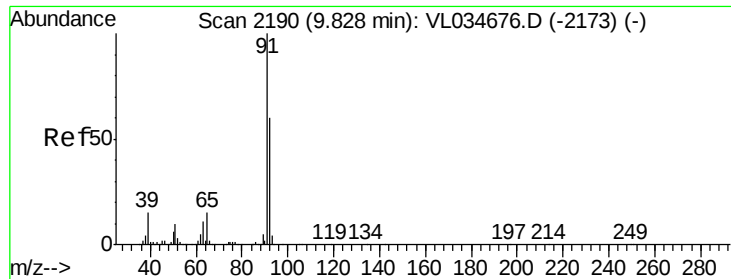
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#52
Tetrachloroethene
Concen: 8.869 ppbv
RT: 11.27 min Scan# 2637
Delta R.T. 0.01 min
Lab File: VL034760.D
Acq: 3 Mar 2020 11:52

Tgt Ion: 164 Resp: 682504
Ion Ratio Lower Upper
164 100
166 135.0 99.2 148.8
129 109.6 88.0 132.0
131 111.1 83.7 125.5





#53

Toluene

Concen: 9.930 ppbv

RT: 9.84 min Scan# 2194

Delta R.T. 0.01 min

Lab File: VL034760.D

Acq: 3 Mar 2020 11:52

Tot Ion: 91 Resp: 2217218

Ion Ratio Lower Upper

91 100

92 59.1 48.5 72.7

Instrument :

MSVOA_L

ClientSampleId :

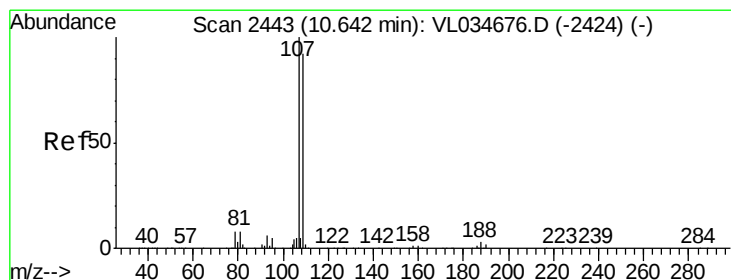
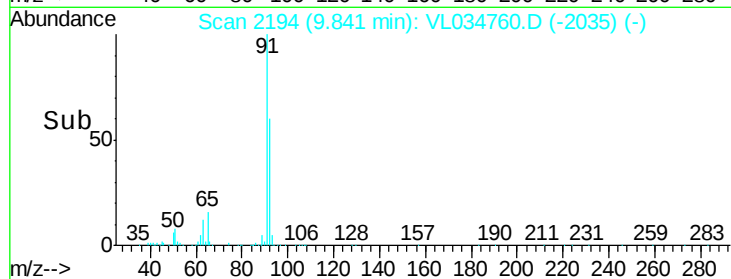
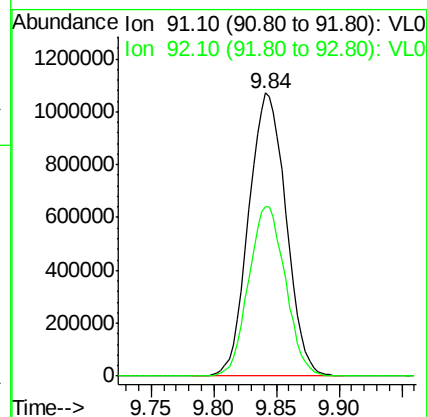
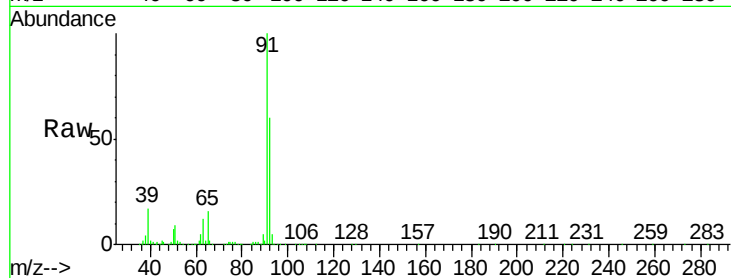
VL0303ABS01

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#54

1,2-Dibromoethane

Concen: 9.894 ppbv

RT: 10.65 min Scan# 2446

Delta R.T. 0.01 min

Lab File: VL034760.D

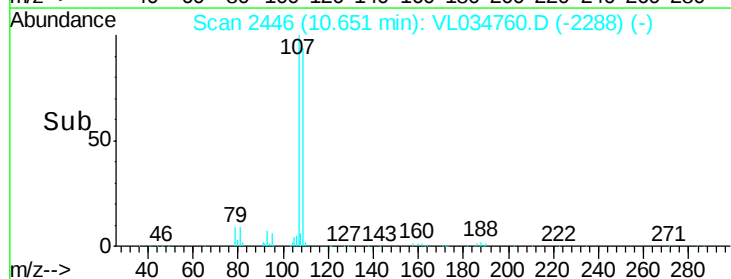
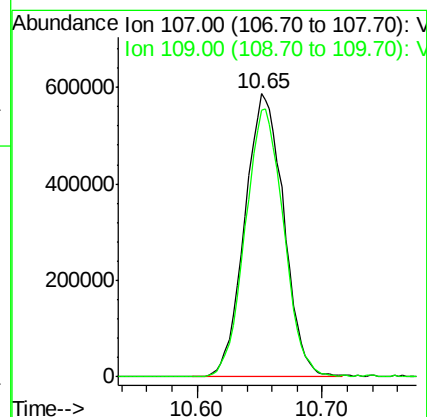
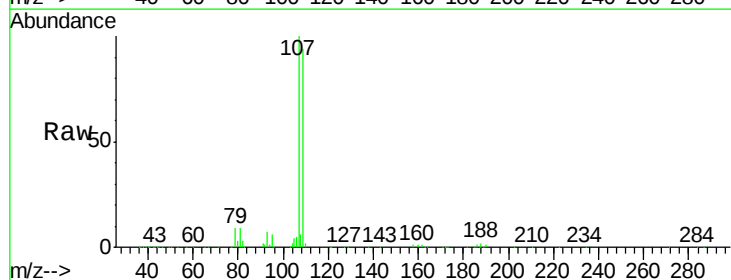
Acq: 3 Mar 2020 11:52

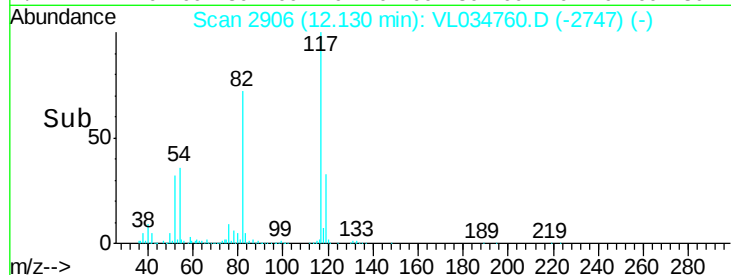
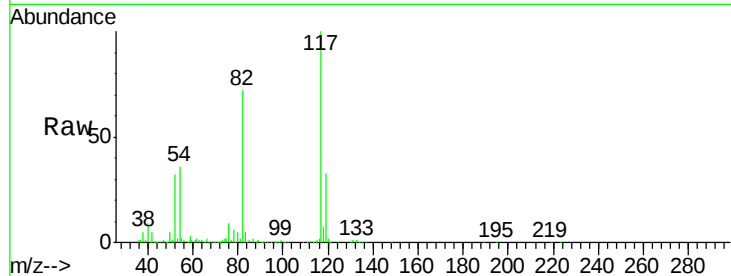
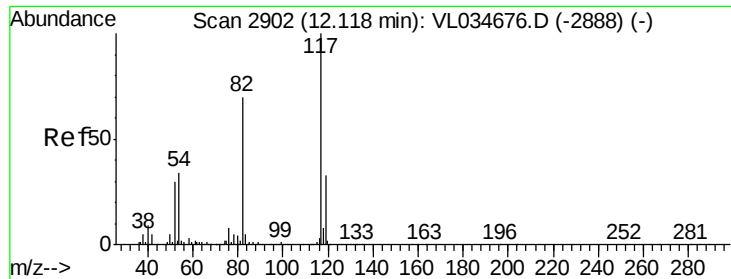
Tgt Ion: 107 Resp: 1264830

Ion Ratio Lower Upper

107 100

109 94.2 73.9 110.9





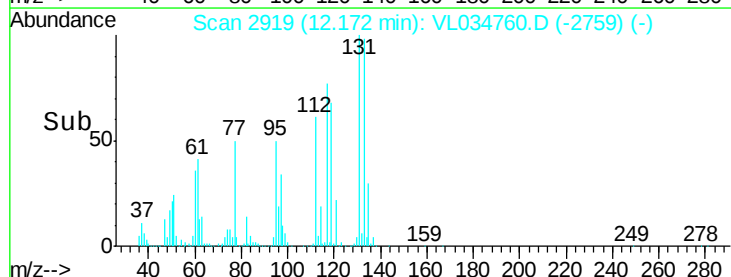
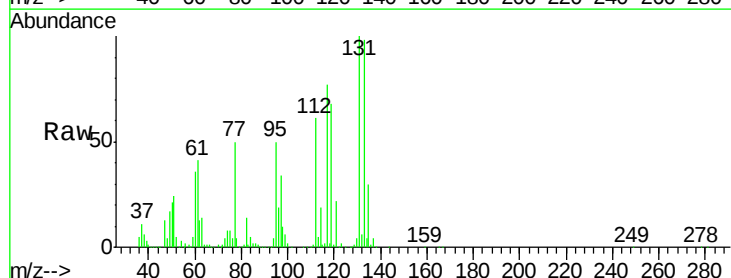
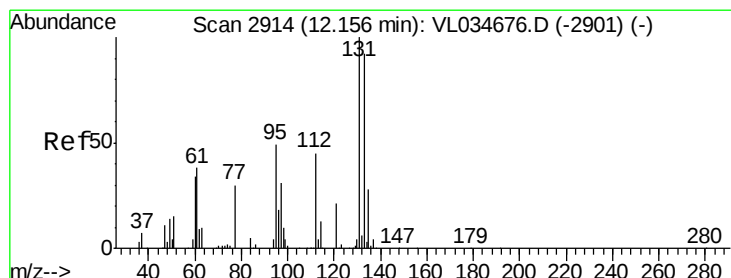
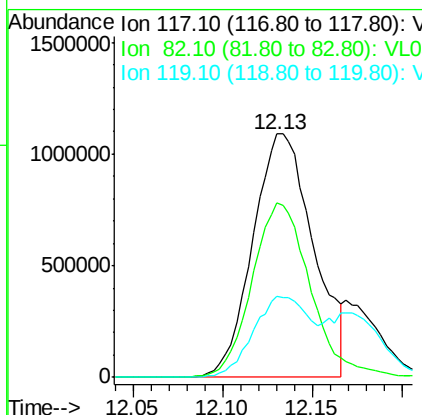
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.13 min Scan# 2906
Delta R.T. 0.01 min
Lab File: VL034760.D
Acq: 3 Mar 2020 11:52

Instrument :
MSVOA_L
ClientSampleId :
VL0303ABS01

Tot Ion:117 Resp: 2570308
Ion Ratio Lower Upper
117 100
82 69.4 54.1 81.1
119 55.2 27.6 41.4#

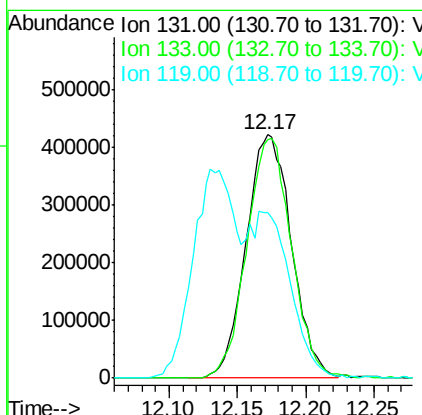
Manual Integrations
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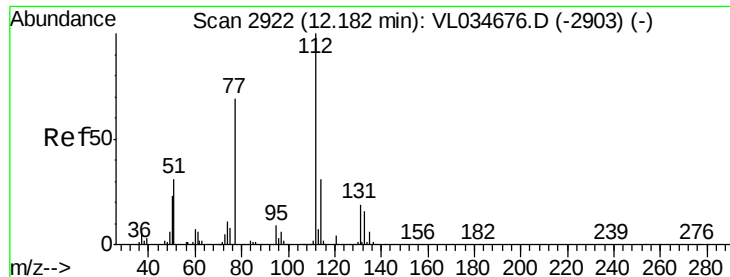
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.912 ppbv
RT: 12.17 min Scan# 2919
Delta R.T. 0.02 min
Lab File: VL034760.D
Acq: 3 Mar 2020 11:52

Tgt Ion:131 Resp: 975536
Ion Ratio Lower Upper
131 100
133 97.3 76.6 114.8
119 145.5 51.3 76.9#





#57

Chlorobenzene

Concen: 8.933 ppbv

RT: 12.19 min Scan# 2926

Delta R.T. 0.01 min

Lab File: VL034760.D

Acq: 3 Mar 2020 11:52

Instrument :

MSVOA_L

ClientSampleId :

VL0303ABS01

Tot Ion: 112 Resp: 1697128

Ion Ratio Lower Upper

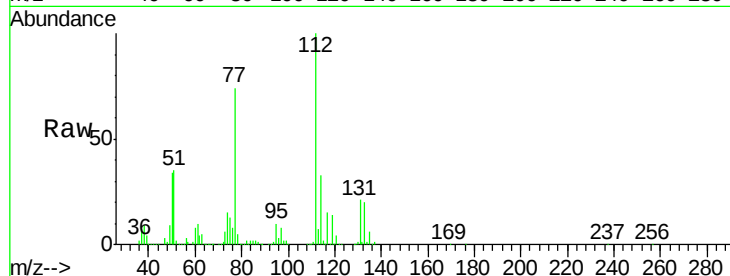
112 100

77 73.3 56.5 84.7

114 32.4 28.1 34.3

Manual Integrations
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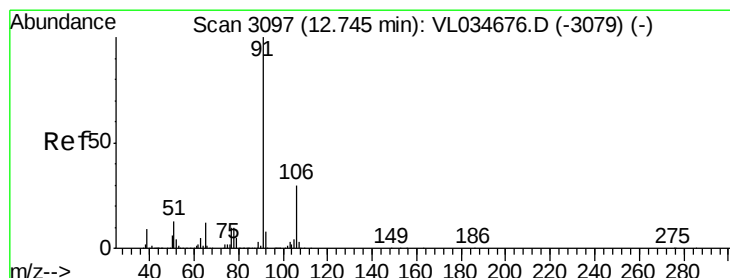
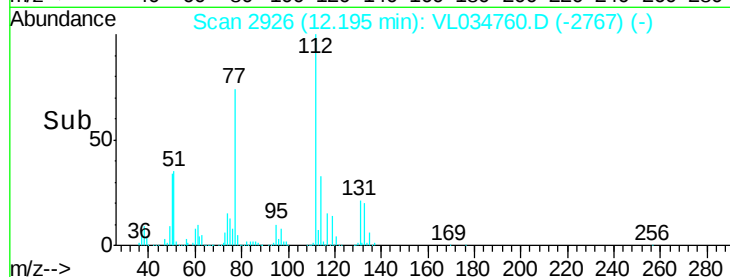
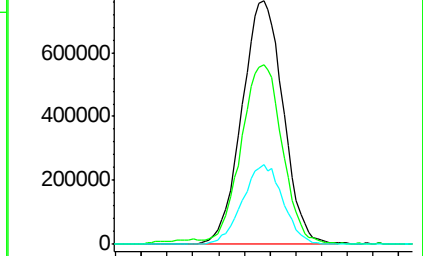
MMDadoda
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 9.652 ppbv

RT: 12.76 min Scan# 3101

Delta R.T. 0.01 min

Lab File: VL034760.D

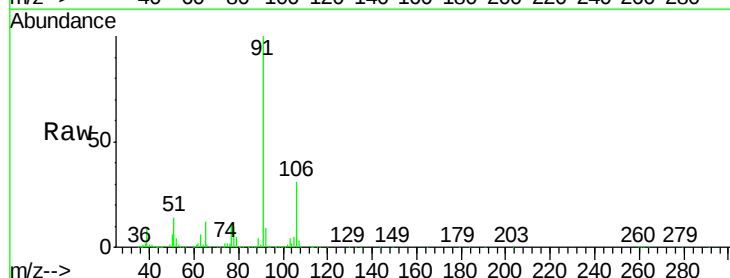
Acq: 3 Mar 2020 11:52

Tgt Ion: 91 Resp: 3001443

Ion Ratio Lower Upper

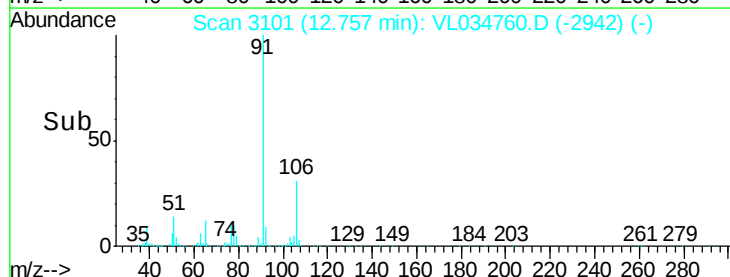
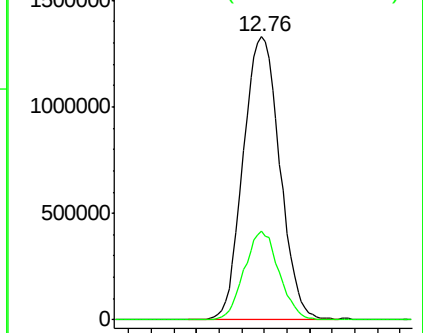
91 100

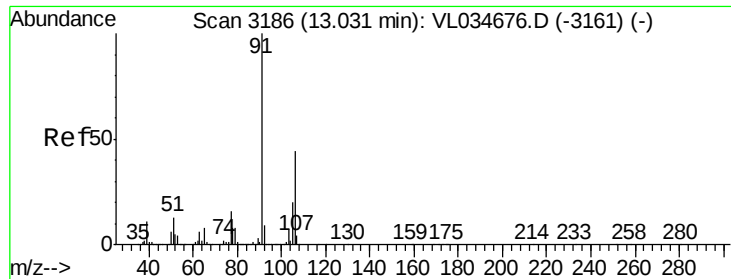
106 31.5 24.0 36.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





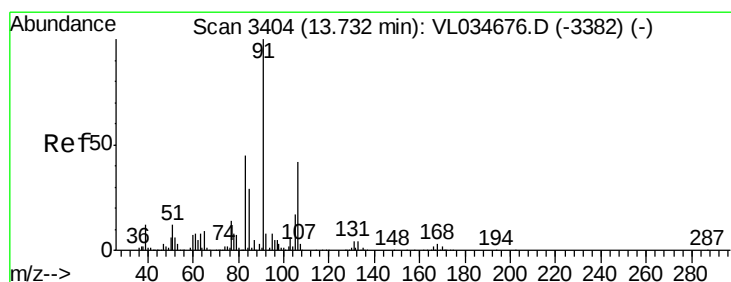
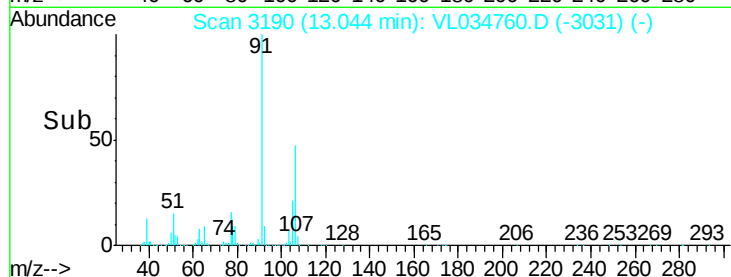
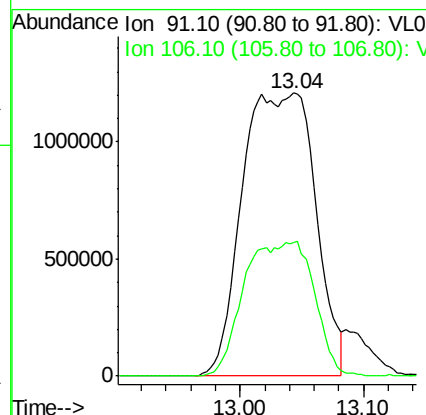
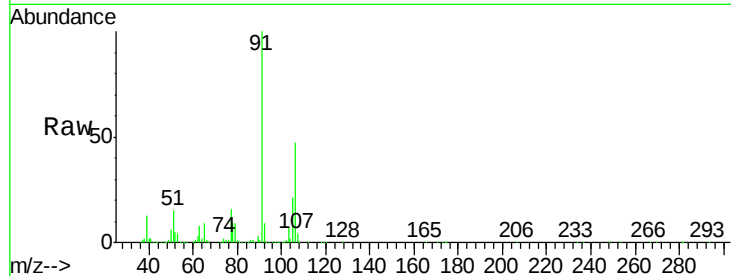
#59
m/p-Xylene
Concen: 18.297 ppbv m
RT: 13.04 min Scan# 3190
Delta R.T. 0.01 min
Lab File: VL034760.D
Acq: 3 Mar 2020 11:52

Instrument :
MSVOA_L
ClientSampleId :
VL0303ABS01

Tot Ion: 91 Resp: 4962735
Ion Ratio Lower Upper
91 100
106 45.5 35.6 53.4

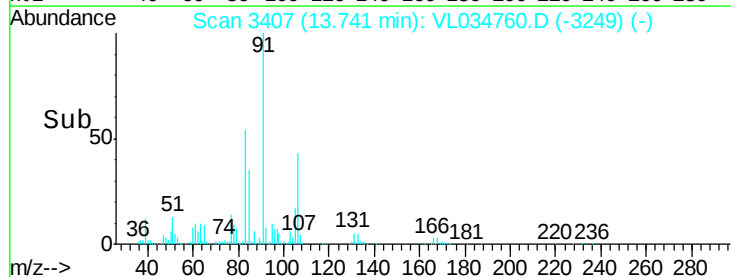
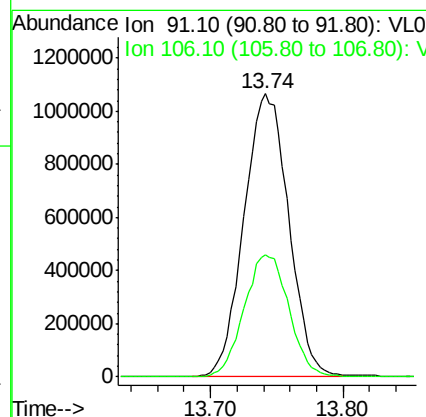
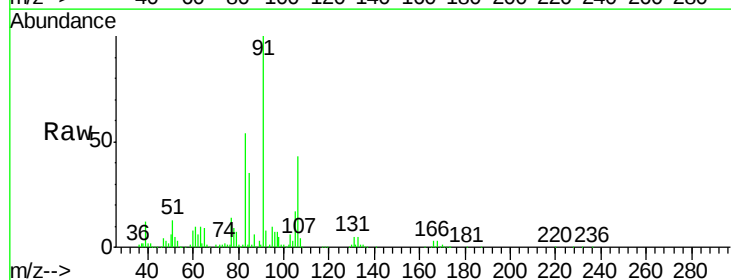
Manual Integrations
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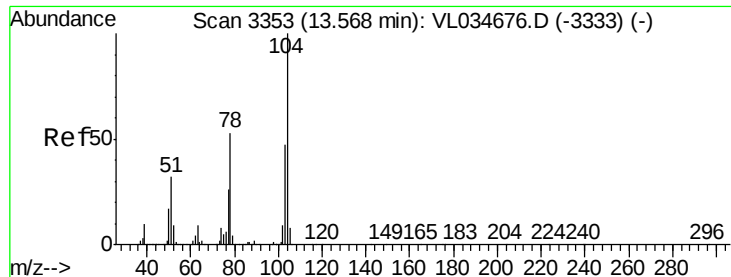
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#60
o-Xylene
Concen: 9.274 ppbv
RT: 13.74 min Scan# 3407
Delta R.T. 0.01 min
Lab File: VL034760.D
Acq: 3 Mar 2020 11:52

Tgt Ion: 91 Resp: 2495971
Ion Ratio Lower Upper
91 100
106 43.3 21.9 65.5





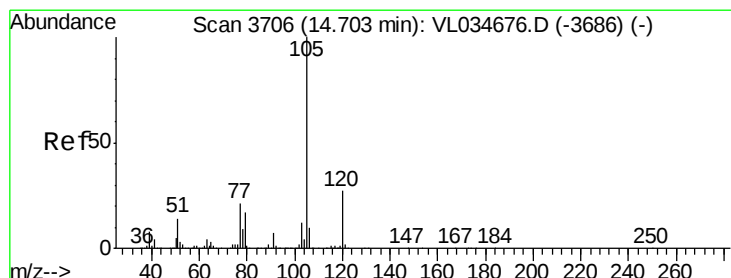
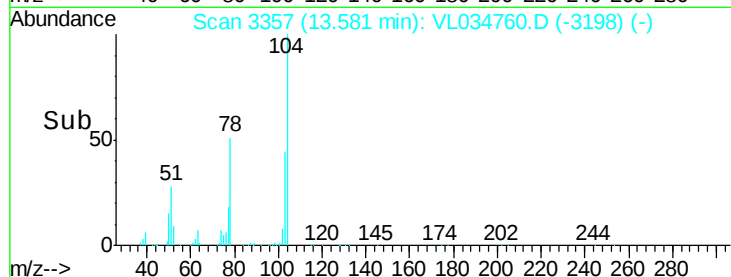
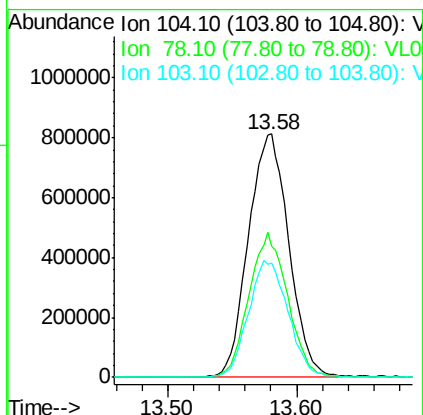
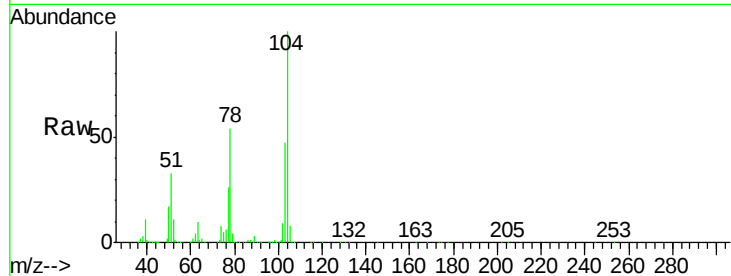
#61
Stvrene
Concen: 10.251 ppbv
RT: 13.58 min Scan# 3357
Delta R.T. 0.01 min
Lab File: VL034760.D
Acq: 3 Mar 2020 11:52

Instrument :
MSVOA_L
ClientSampleId :
VL0303ABS01

Tot Ion	Ratio	Lower	Upper
104	100		
78	57.1	44.2	66.4
103	47.6	37.4	56.0

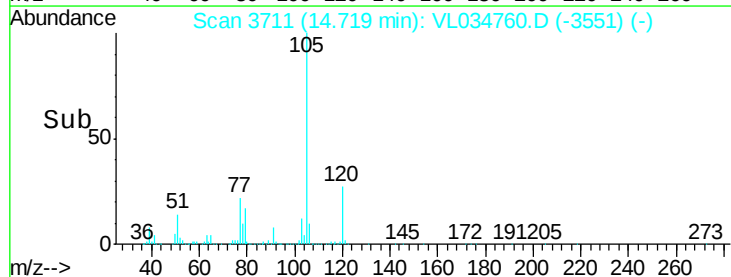
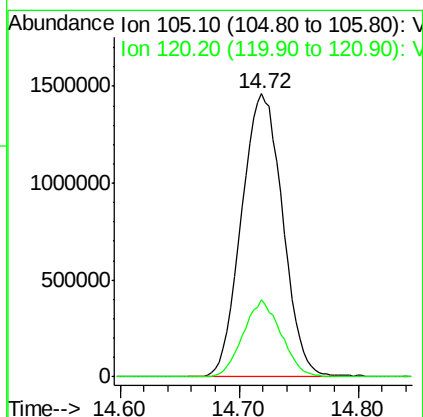
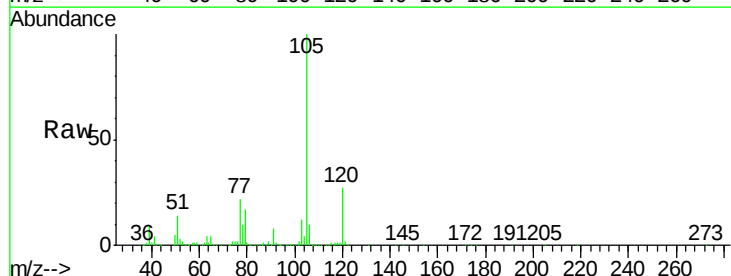
Manual Integrations
APPROVED

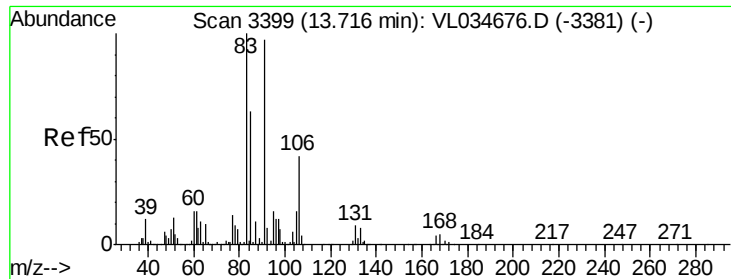
MMDadoda
3/4/2020 4:48:57 PM



#62
Isopropylbenzene
Concen: 8.927 ppbv
RT: 14.72 min Scan# 3711
Delta R.T. 0.02 min
Lab File: VL034760.D
Acq: 3 Mar 2020 11:52

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.3	20.2	30.4





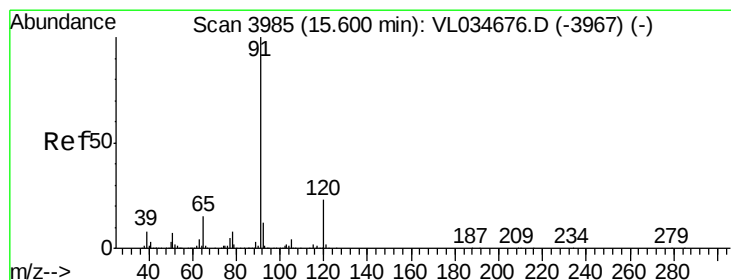
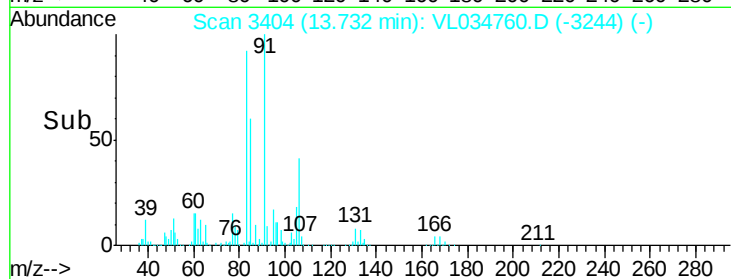
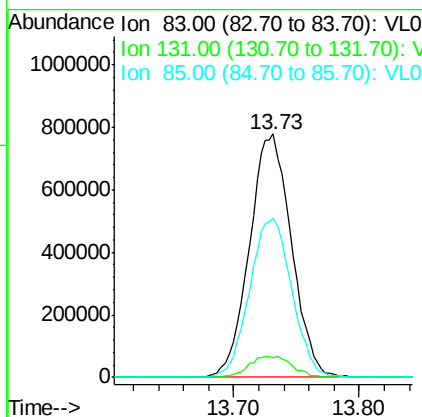
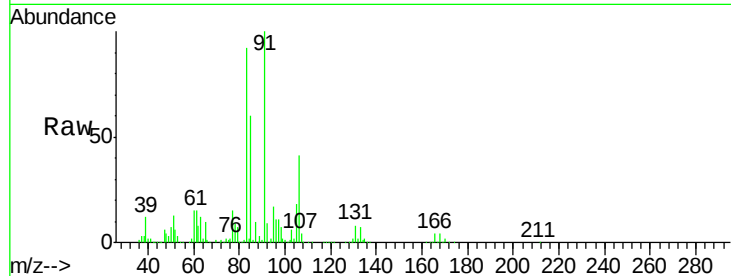
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.625 ppbv
 RT: 13.73 min Scan# 3404
 Delta R.T. 0.02 min
 Lab File: VL034760.D
 Acq: 3 Mar 2020 11:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0303ABS01

Tot Ion	83	Resp	1809194
Ion Ratio	100	Lower	Upper
83	100		
131	9.1	4.4	13.2
85	65.8	32.5	97.5

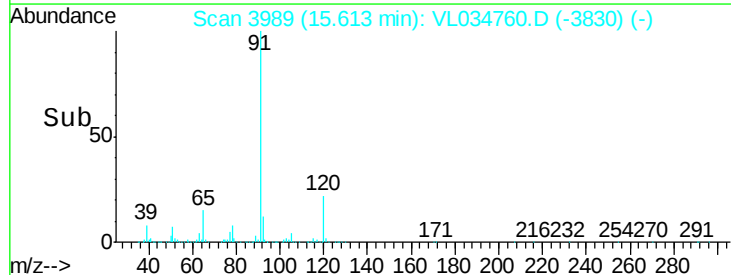
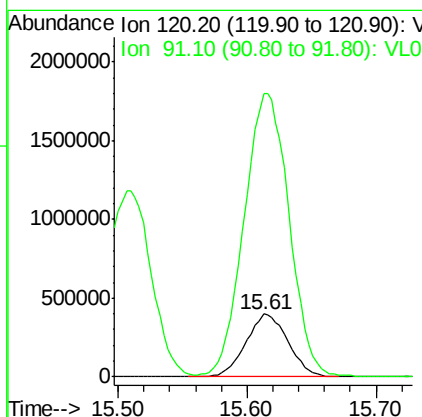
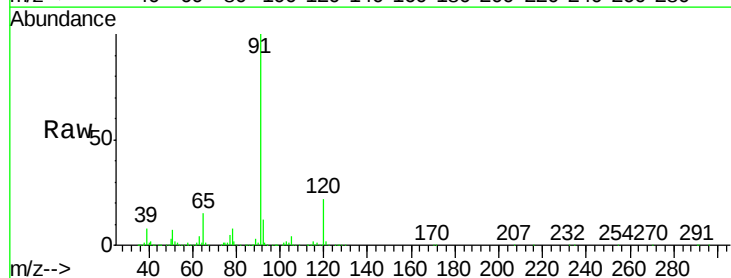
Manual Integrations
 APPROVED

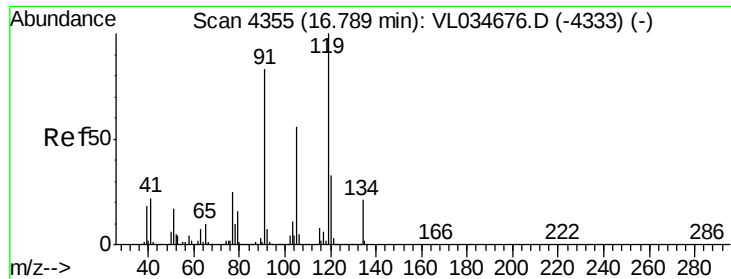
MMDadoda
 3/4/2020 4:48:57 PM



#64
 n-propylbenzene
 Concen: 8.959 ppbv
 RT: 15.61 min Scan# 3989
 Delta R.T. 0.01 min
 Lab File: VL034760.D
 Acq: 3 Mar 2020 11:52

Tgt Ion	120	Resp	906808
Ion Ratio	100	Lower	Upper
120	100		
91	483.7	369.8	554.8





#65

tert-Butylbenzene

Concen: 9.059 ppbv

RT: 16.80 min Scan# 4358

Delta R.T. 0.01 min

Lab File: VL034760.D

Acq: 3 Mar 2020 11:52

Instrument :

MSVOA_L

ClientSampleId :

VL0303ABS01

Tot Ion: 119 Resp: 3071188

Ion Ratio Lower Upper

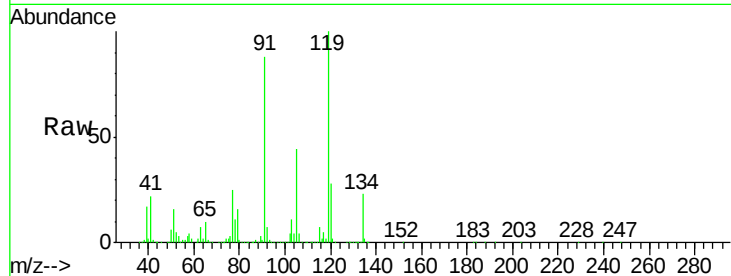
119 100

91 88.5 69.1 103.7

134 19.5 15.8 23.8

Manual Integrations
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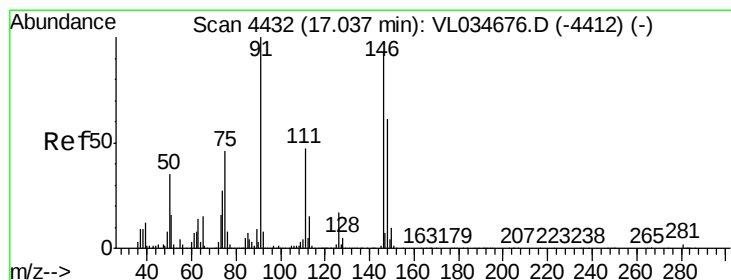
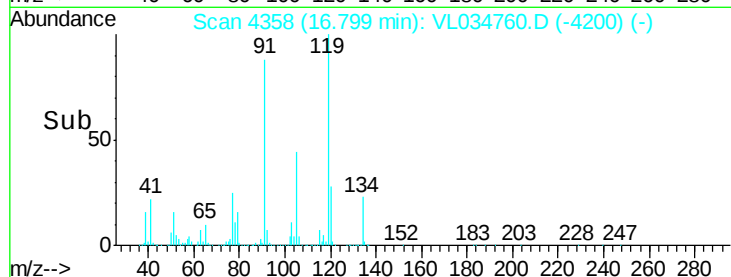
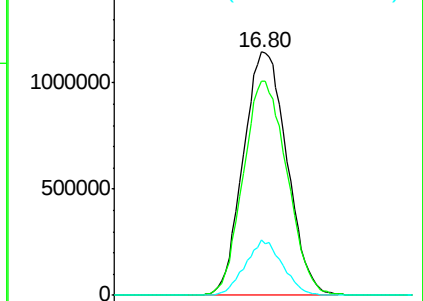
MMDadoda
3/4/2020 4:48:57 PM



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 12.039 ppbv

RT: 17.05 min Scan# 4436

Delta R.T. 0.01 min

Lab File: VL034760.D

Acq: 3 Mar 2020 11:52

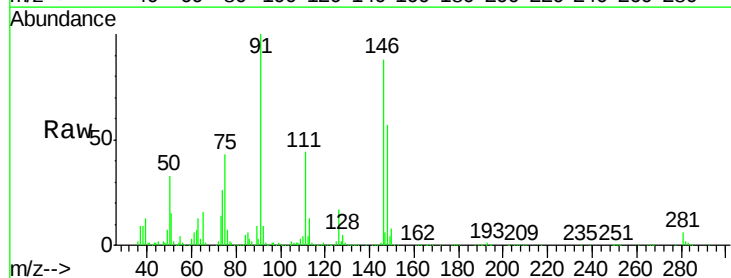
Tgt Ion: 91 Resp: 1522532

Ion Ratio Lower Upper

91 100

126 15.9 13.5 20.3

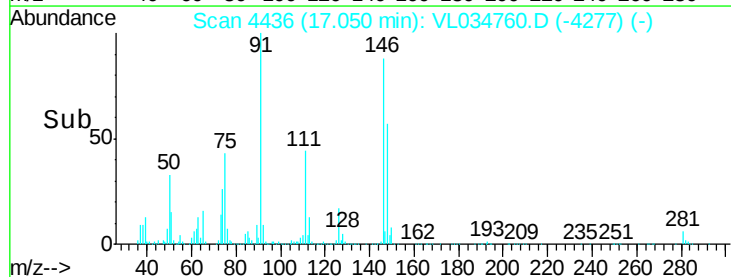
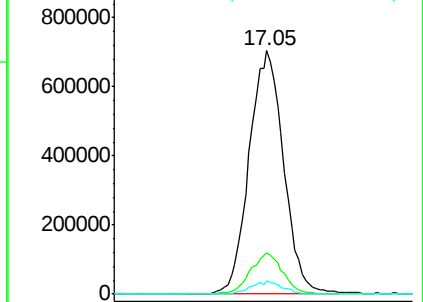
128 5.0 4.2 6.4

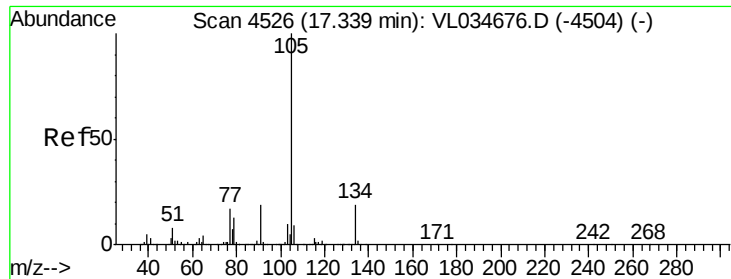


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





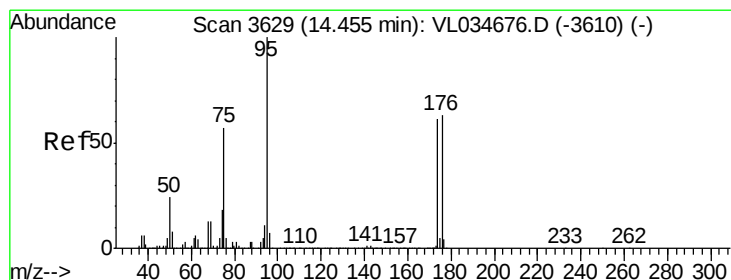
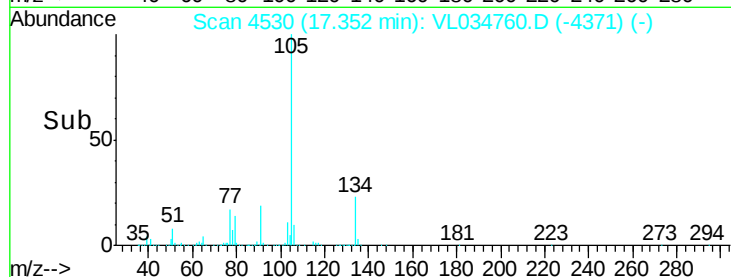
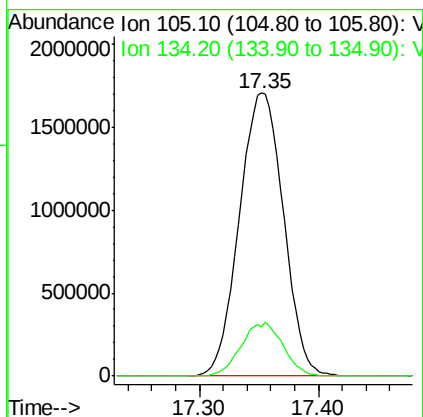
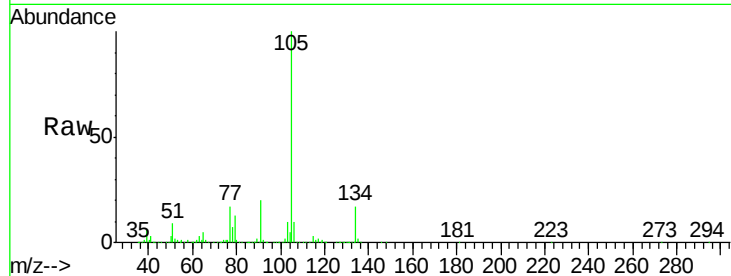
#67
 sec-Butylbenzene
 Concen: 8.941 ppbv
 RT: 17.35 min Scan# 4530
 Delta R.T. 0.01 min
 Lab File: VL034760.D
 Acq: 3 Mar 2020 11:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0303ABS01

Tot Ion: 105 Resp: 4361762
 Ion Ratio Lower Upper
 105 100
 134 18.1 14.8 22.2

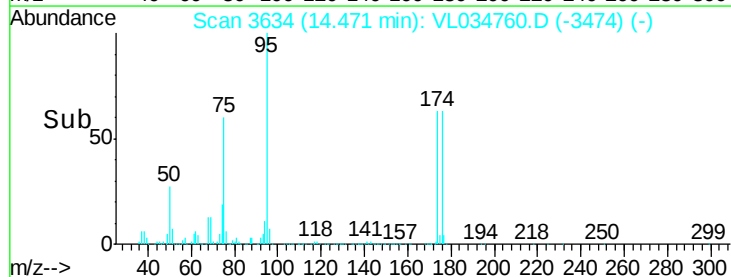
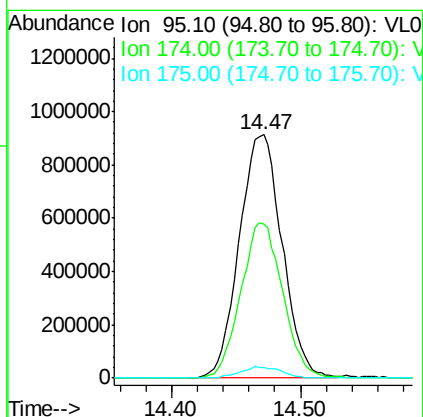
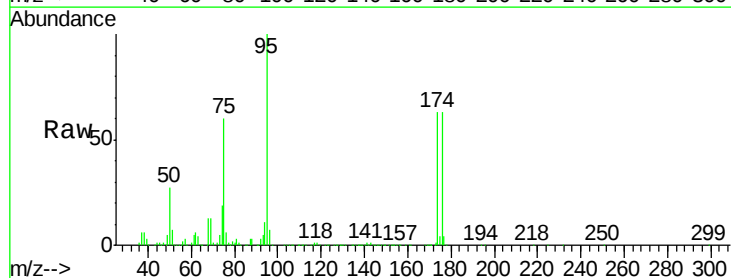
Manual Integrations
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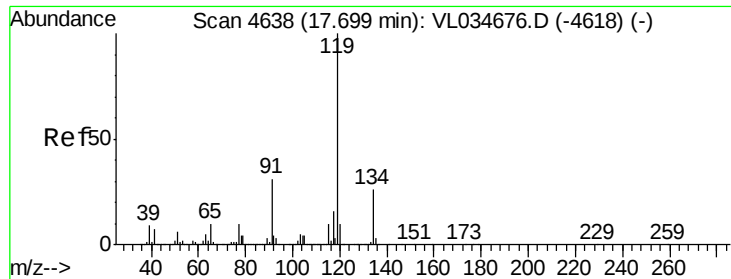
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 3/4/2020 4:48:57 PM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.013 ppbv
 RT: 14.47 min Scan# 3634
 Delta R.T. 0.02 min
 Lab File: VL034760.D
 Acq: 3 Mar 2020 11:52

Tgt Ion: 95 Resp: 2110292
 Ion Ratio Lower Upper
 95 100
 174 63.0 50.7 76.1
 175 4.5 3.9 5.9





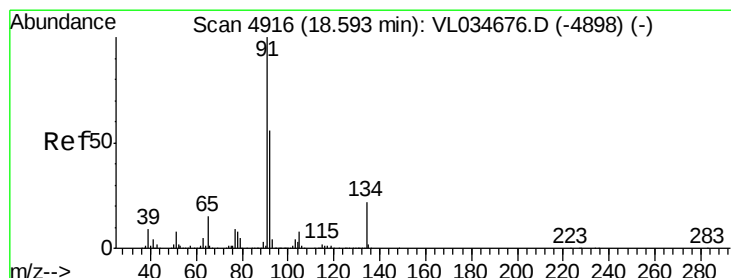
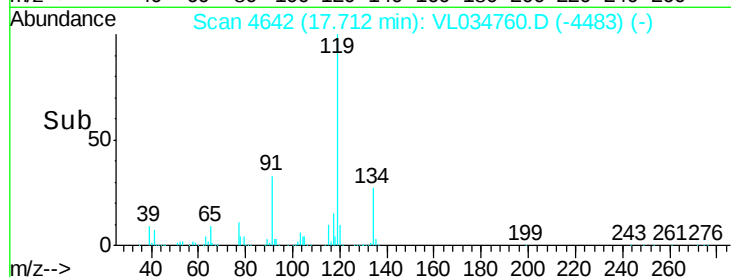
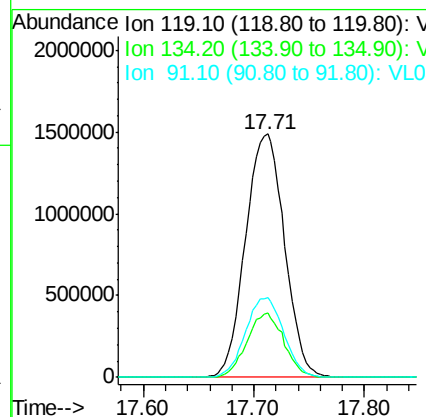
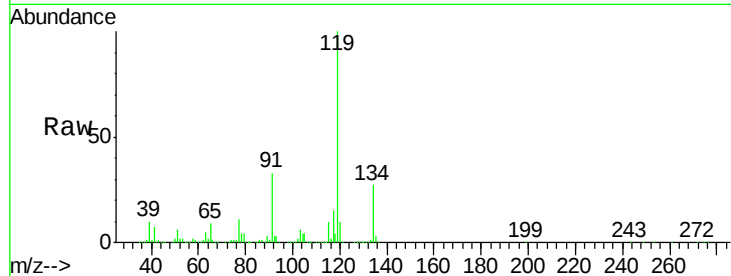
#69
 p-Isopropyltoluene
 Concen: 9.058 ppbv
 RT: 17.71 min Scan# 4642
 Delta R.T. 0.01 min
 Lab File: VL034760.D
 Acq: 3 Mar 2020 11:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0303ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.1	20.6	31.0
91	32.5	25.3	37.9

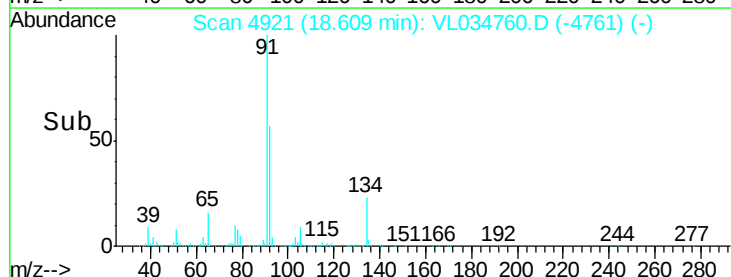
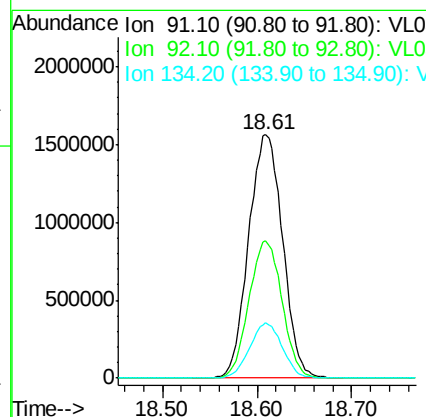
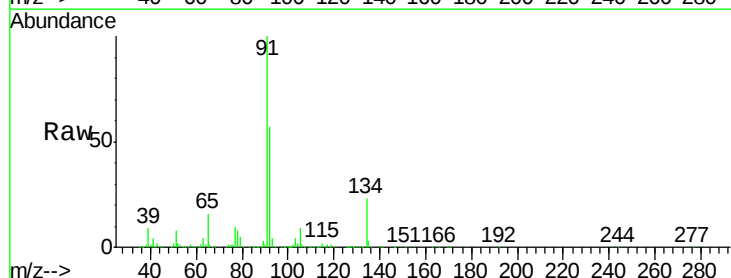
Manual Integrations
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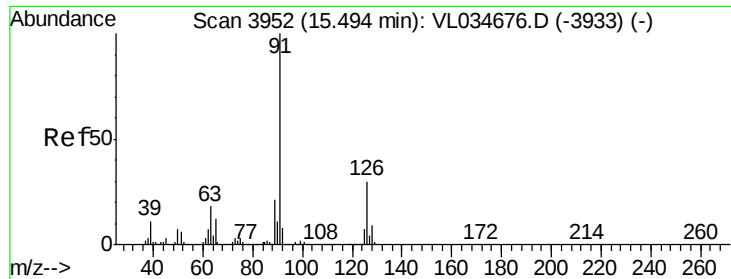
MMDadoda
 3/4/2020 4:48:57 PM



#70
 n-Butylbenzene
 Concen: 8.932 ppbv
 RT: 18.61 min Scan# 4921
 Delta R.T. 0.02 min
 Lab File: VL034760.D
 Acq: 3 Mar 2020 11:52

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.9	43.8	65.6
134	21.7	17.6	26.4





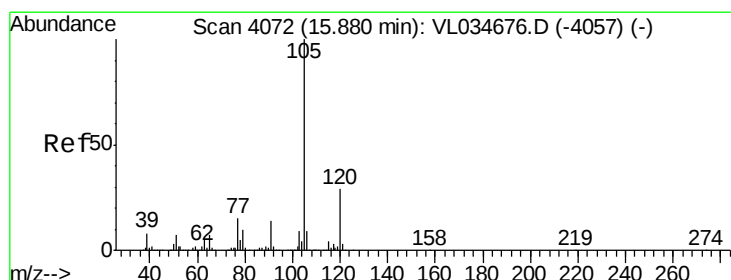
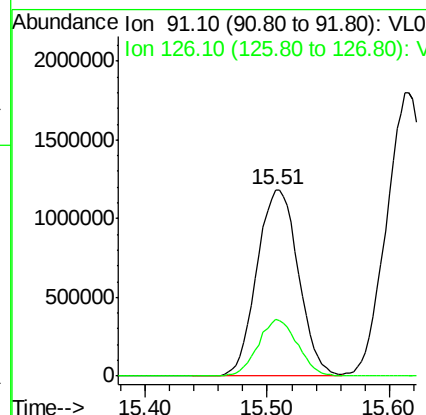
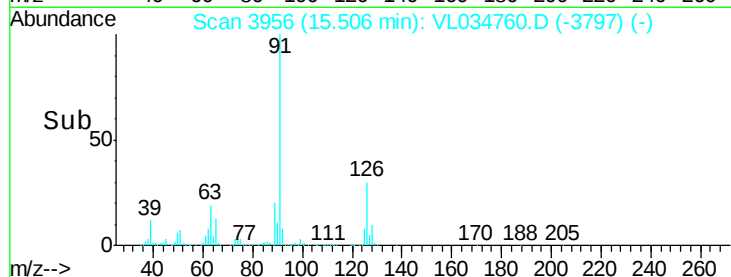
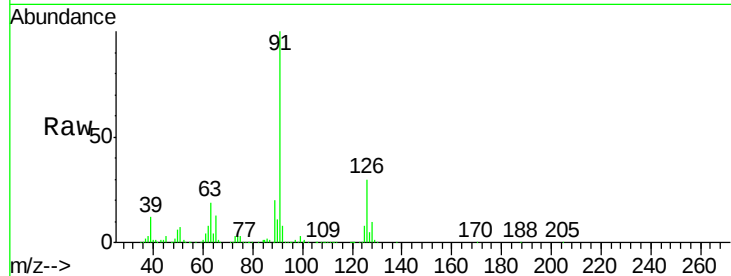
#71
 2-Chlorotoluene
 Concen: 9.178 ppbv
 RT: 15.51 min Scan# 3956
 Delta R.T. 0.01 min
 Lab File: VL034760.D
 Acq: 3 Mar 2020 11:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0303ABS01

Tot Ion: 91 Resp: 2790797
 Ion Ratio Lower Upper
 91 100
 126 29.0 11.8 47.2

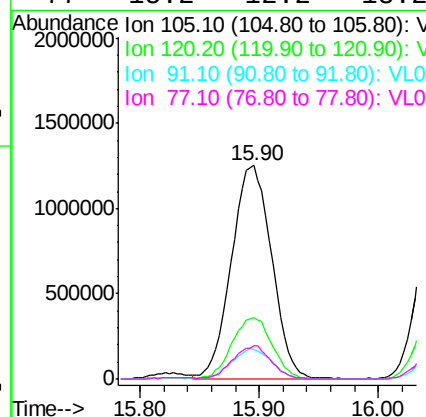
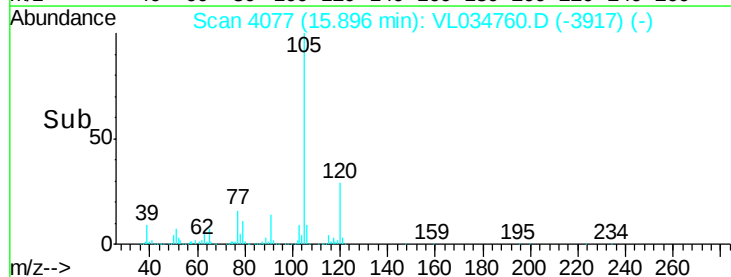
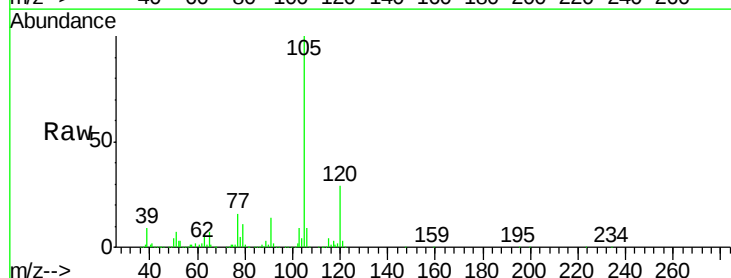
Manual Integrations
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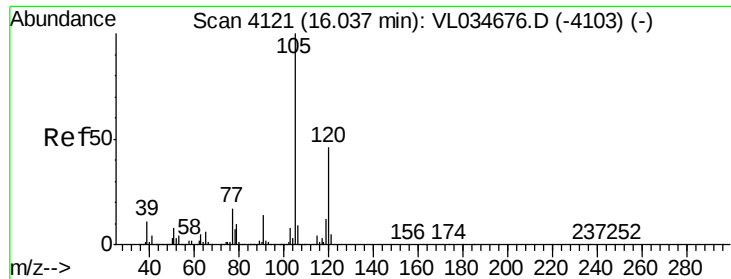
MMDadoda
 3/4/2020 4:48:57 PM



#72
 4-Ethyltoluene
 Concen: 9.771 ppbv
 RT: 15.90 min Scan# 4077
 Delta R.T. 0.02 min
 Lab File: VL034760.D
 Acq: 3 Mar 2020 11:52

Tgt Ion: 105 Resp: 2926899
 Ion Ratio Lower Upper
 105 100
 120 28.8 23.7 35.5
 91 14.7 10.9 16.3
 77 15.2 12.2 18.2





#73

1,3,5-Trimethylbenzene

Concen: 9.488 ppbv

RT: 16.05 min Scan# 4126

Delta R.T. 0.02 min

Lab File: VL034760.D

Acq: 3 Mar 2020 11:52

Instrument :

MSVOA_L

ClientSampleId :

VL0303ABS01

Tot Ion:105 Resp: 2734168

Ion Ratio Lower Upper

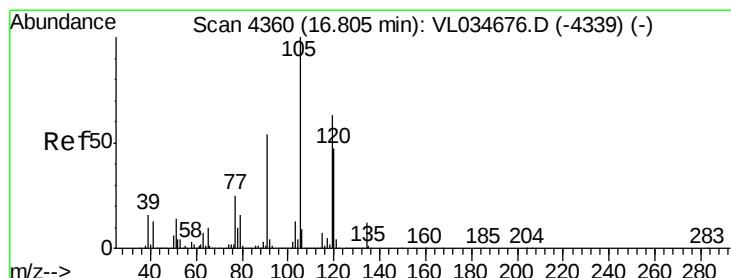
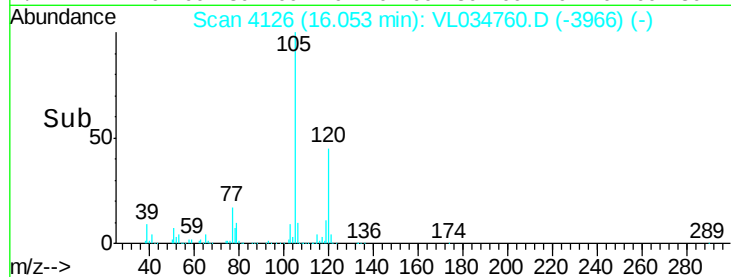
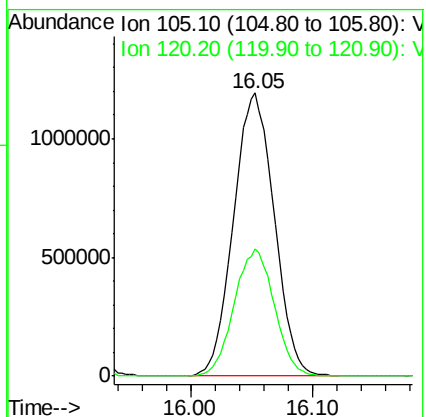
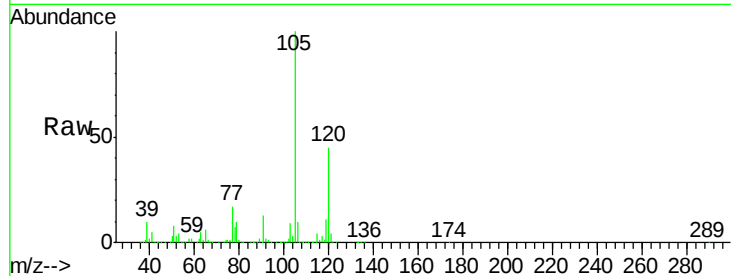
105 100

120 45.0 37.1 55.7

Manual Integrations
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#74

1,2,4-Trimethylbenzene

Concen: 8.956 ppbv

RT: 16.82 min Scan# 4365

Delta R.T. 0.02 min

Lab File: VL034760.D

Acq: 3 Mar 2020 11:52

Tgt Ion:105 Resp: 2850351

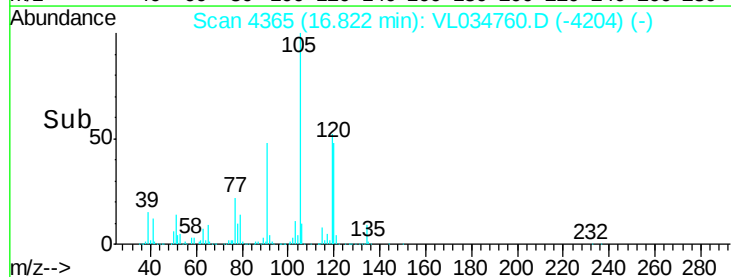
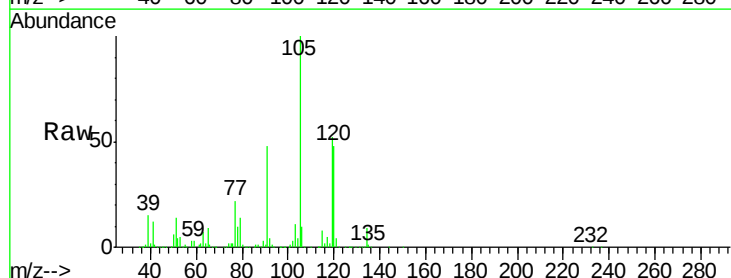
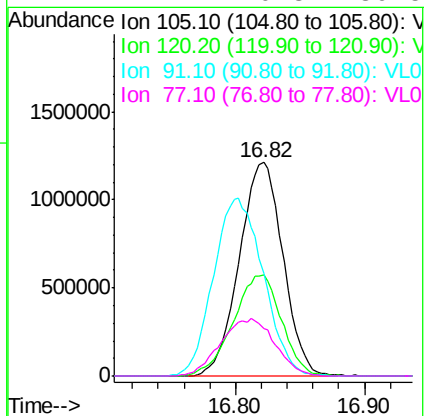
Ion Ratio Lower Upper

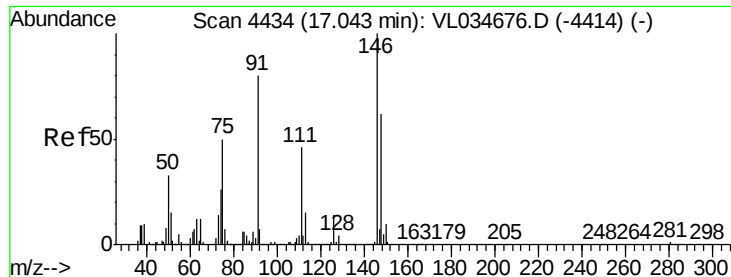
105 100

120 47.3 37.9 56.9

91 47.7 43.9 65.9

77 22.4 20.3 30.5





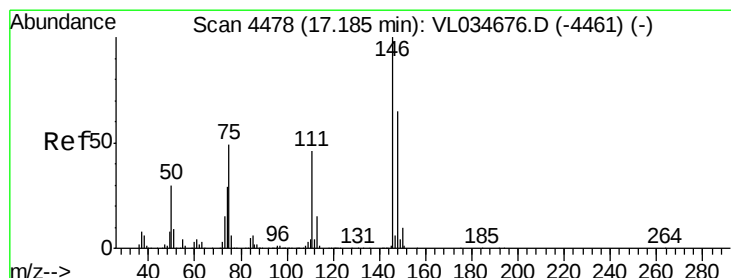
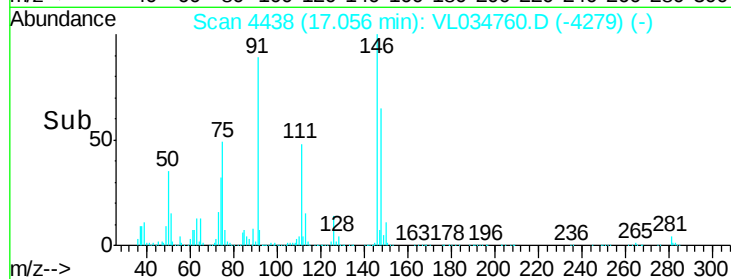
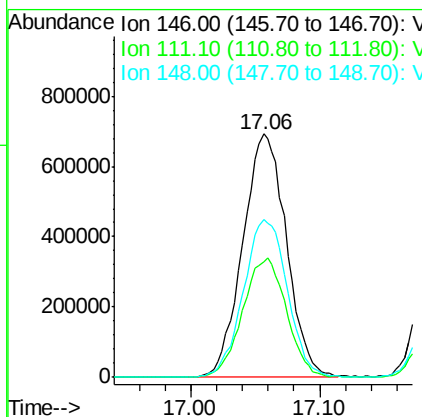
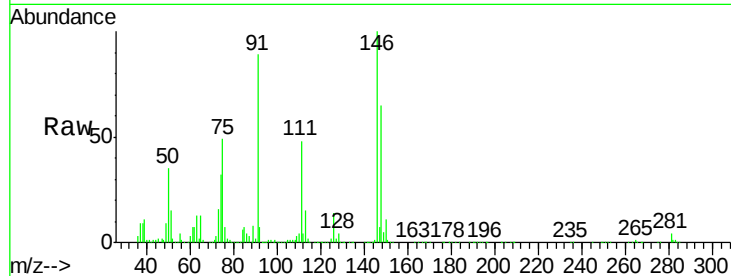
#75
 1,3-Dichlorobenzene
 Concen: 8.857 ppbv
 RT: 17.06 min Scan# 4438
 Delta R.T. 0.01 min
 Lab File: VL034760.D
 Acq: 3 Mar 2020 11:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0303ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.5	24.4	73.2
148	65.7	32.5	97.4

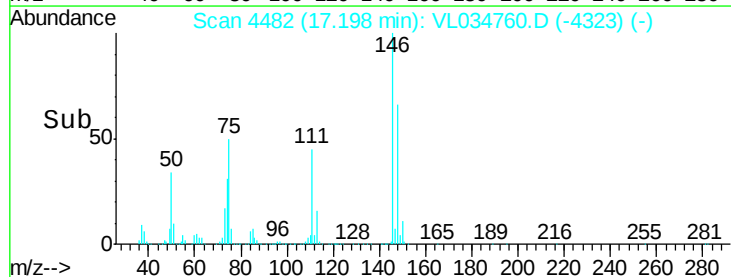
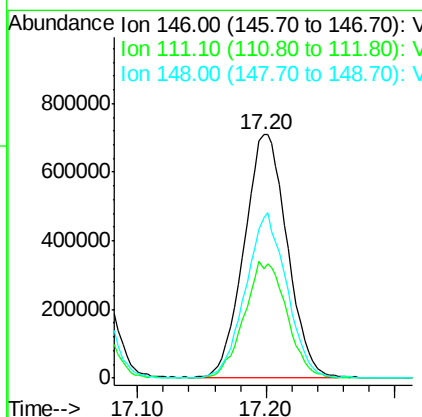
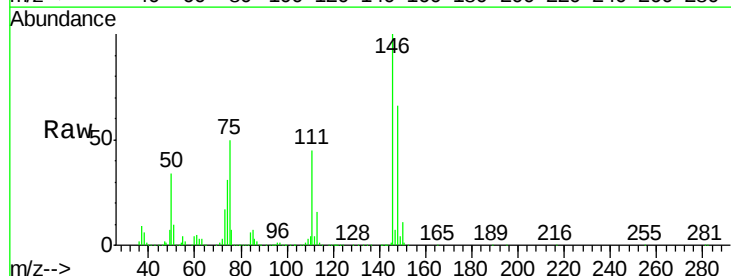
Manual Integrations
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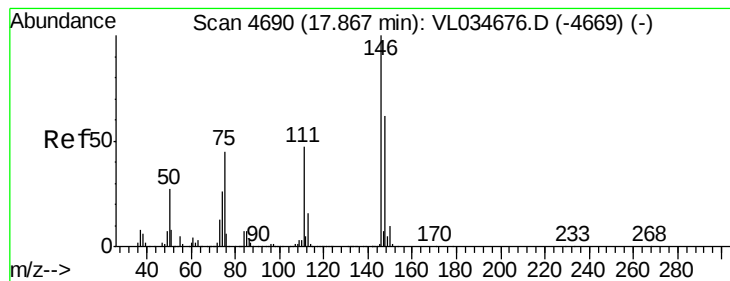
MMDadoda
 3/4/2020 4:48:57 PM



#76
 1,4-Dichlorobenzene
 Concen: 8.925 ppbv
 RT: 17.20 min Scan# 4482
 Delta R.T. 0.01 min
 Lab File: VL034760.D
 Acq: 3 Mar 2020 11:52

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.6	23.4	70.0
148	65.6	31.9	95.5





#77

1,2-Dichlorobenzene

Concen: 8.941 ppbv

RT: 17.88 min Scan# 4694

Delta R.T. 0.01 min

Lab File: VL034760.D

Acq: 3 Mar 2020 11:52

Instrument :

MSVOA_L

ClientSampleId :

VL0303ABS01

Tot Ion:146 Resp: 1588038

Ion Ratio Lower Upper

146 100

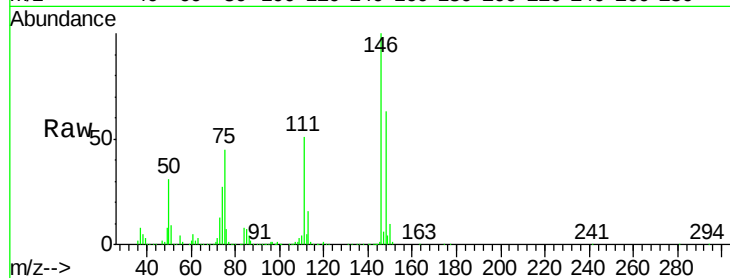
111 50.5 24.9 74.7

148 64.2 32.0 96.0

Manual Integrations
APPROVED

MMDadoda

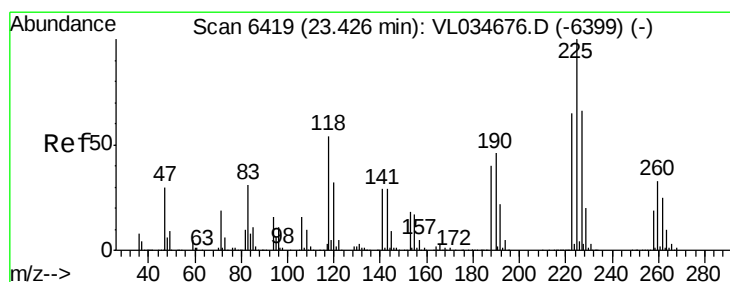
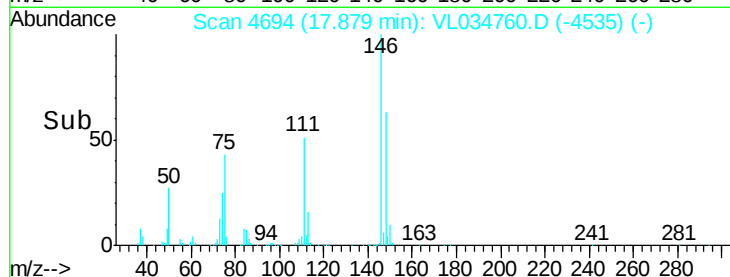
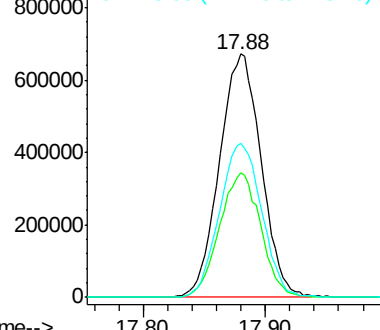
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Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 8.096 ppbv

RT: 23.44 min Scan# 6423

Delta R.T. 0.01 min

Lab File: VL034760.D

Acq: 3 Mar 2020 11:52

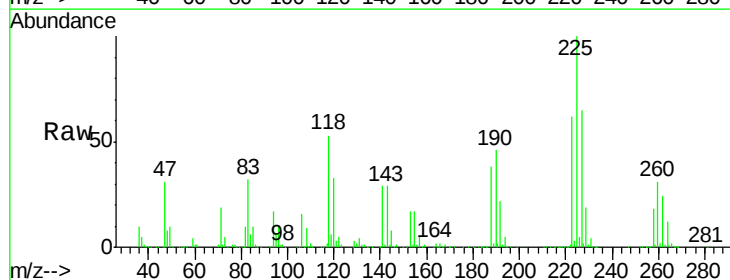
Tgt Ion:225 Resp: 1251969

Ion Ratio Lower Upper

225 100

223 63.2 51.3 76.9

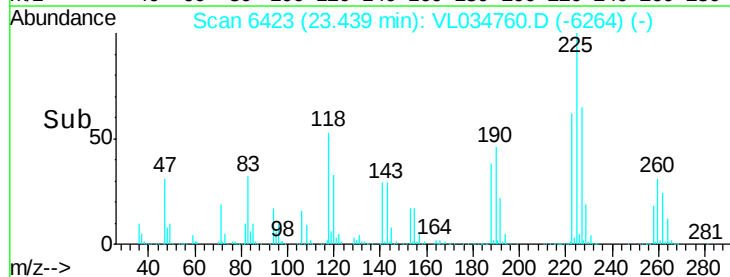
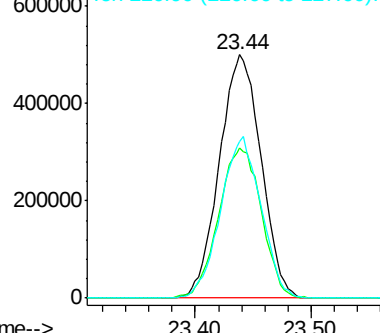
227 64.1 51.3 76.9

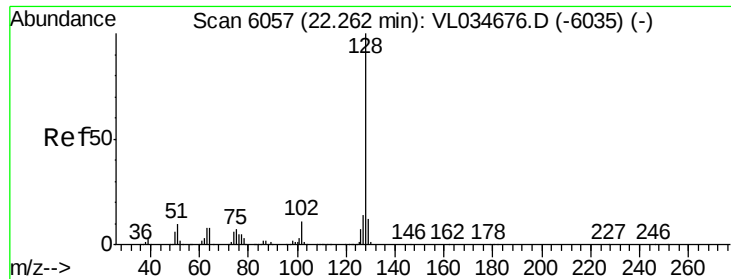


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





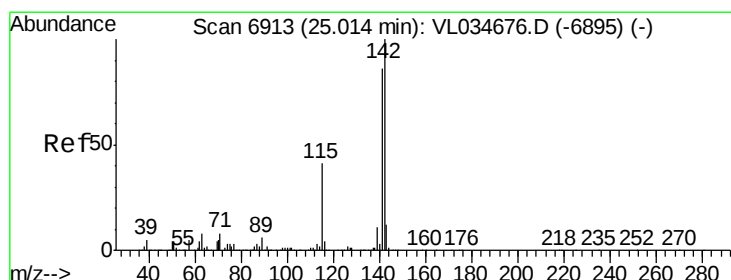
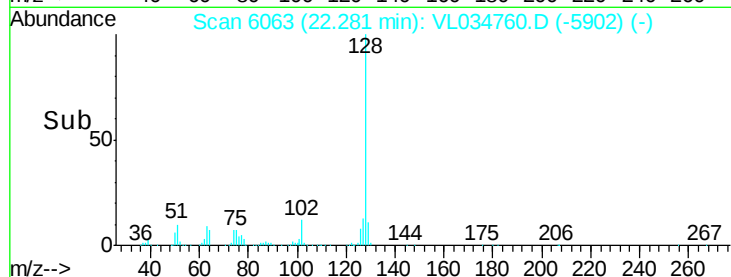
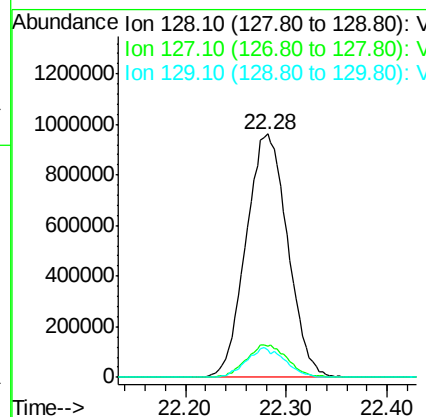
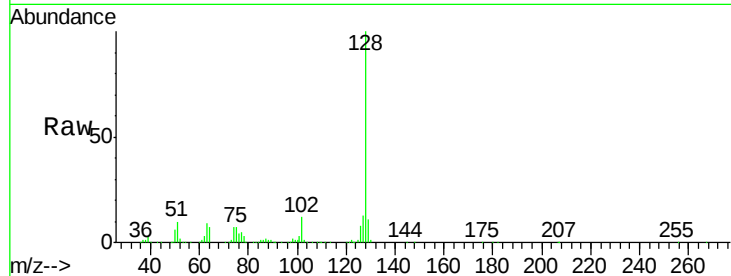
#79
Naphthalene
Concen: 9.817 ppbv
RT: 22.28 min Scan# 6063
Delta R.T. 0.02 min
Lab File: VL034760.D
Acq: 3 Mar 2020 11:52

Instrument :
MSVOA_L
ClientSampleId :
VL0303ABS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.7	11.0	16.6
129	11.4	9.4	14.2

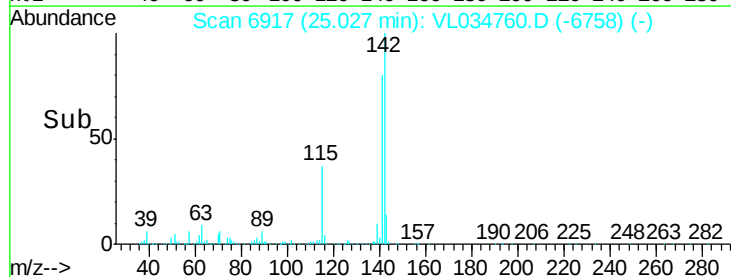
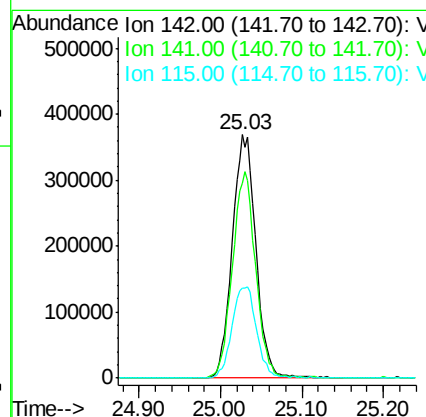
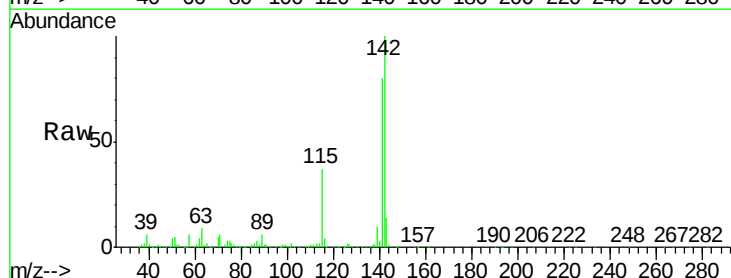
Manual Integrations
APPROVED

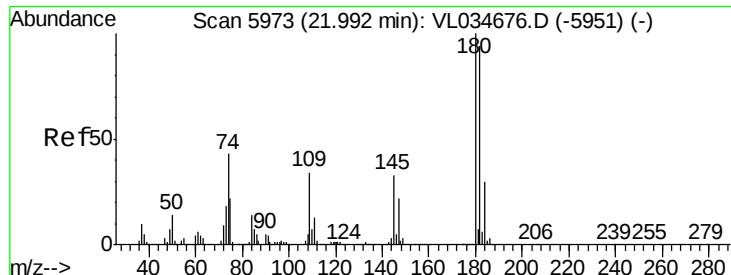
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#80
Naphthalene, 2-methyl-
Concen: 8.734 ppbv
RT: 25.03 min Scan# 6917
Delta R.T. 0.01 min
Lab File: VL034760.D
Acq: 3 Mar 2020 11:52

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.6	66.5	99.7
115	39.1	30.6	46.0





#81
 1,2,4-Trichlorobenzene
 Concen: 8.829 ppbv
 RT: 22.01 min Scan# 5978
 Delta R.T. 0.02 min
 Lab File: VL034760.D
 Acq: 3 Mar 2020 11:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0303ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.2	76.5	114.7
184	31.1	25.2	37.8

Manual Integrations
 APPROVED

MMDadoda
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