

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110520\
 Data File : VL035858.D
 Acq On : 5 Nov 2020 11:42
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 11/9/2020 1:38:32 PM

Quant Time: Nov 06 08:24:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 0
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1004506	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.15	114	3904811	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	3836203m	10.00	ppbv	-0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2679697	9.83	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.30%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.02	85	1732020	9.158	ppbv	100
3) Chlorodifluoromethane	2.96	51	1201672	9.990	ppbv	98
4) Chloromethane	3.12	50	588794	10.075	ppbv	98
5) Vinyl Chloride	3.23	62	725891	9.744	ppbv	99
6) Bromomethane	3.45	94	600114	10.017	ppbv	99
7) Chloroethane	3.53	64	274563	10.472	ppbv	98
8) Dichlorotetrafluoroethane	3.16	85	2117915	9.785	ppbv	98
9) Propene	2.99	41	456778	10.375	ppbv	99
10) Heptane	8.10	43	1288736	10.597	ppbv	99
11) Trichlorofluoromethane	3.92	101	2496945	10.515	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1818008	10.282	ppbv	100
13) Ethanol	3.59	45	68886m	7.212	ppbv	
14) Bromoethene	3.72	108	781023	9.599	ppbv	99
15) Acetone	3.83	43	1039962	9.684	ppbv	98
16) 1,3-Butadiene	3.30	39	481275	10.409	ppbv	98
17) tert-Butyl alcohol	4.27	59	1172136	8.236	ppbv	99
18) 1,1-Dichloroethene	4.26	96	830470	10.230	ppbv	95
19) Isopropyl Alcohol	3.94	45	517786	7.846	ppbv	100
20) Methylene Chloride	4.32	84	677847	8.966	ppbv	99
21) Allyl Chloride	4.38	41	602083	10.367	ppbv	98
22) trans-1,2-Dichloroethene	4.86	96	848233	10.307	ppbv	98
23) Vinyl Acetate	5.05	43	1415117	9.401	ppbv	98
24) 1,1-Dichloroethane	4.99	63	1449190	10.105	ppbv	99
25) Ethyl Acetate	5.65	43	2201738	10.407	ppbv	99
26) Hexane	5.66	57	1158215	9.927	ppbv	98
27) Carbon Disulfide	4.52	76	1772909	10.141	ppbv	100
28) Methyl tert-Butyl Ether	5.01	73	1972093	9.412	ppbv	100
29) Chloroform	5.73	83	2298611	10.023	ppbv	98
30) Cyclohexane	7.10	84	1218761	9.591	ppbv	98
31) cis-1,2-Dichloroethene	5.52	61	1216725	10.137	ppbv	97
32) 1,1,1-Trichloroethane	6.48	97	2238971	9.356	ppbv	99
34) 2-Butanone	5.22	43	1385686	10.934	ppbv	99
35) Carbon Tetrachloride	6.99	117	2250869	10.789	ppbv	100
36) Benzene	6.87	78	2920135	10.059	ppbv	98
37) 1,2-Dichloroethane	6.28	62	1446567	10.999	ppbv	99
38) Trichloroethene	7.81	130	1333499	9.404	ppbv	99
39) 1,2-Dichloropropane	7.59	63	1009870	10.333	ppbv	97
40) 1,4-Dioxane	7.81	88	391165	8.445	ppbv	# 57
41) Tetrahydrofuran	6.02	42	814649	11.315	ppbv	98
42) Bromodichloromethane	7.77	83	2345150	10.568	ppbv	99
43) Methyl Methacrylate	7.99	69	1191646	10.762	ppbv	98

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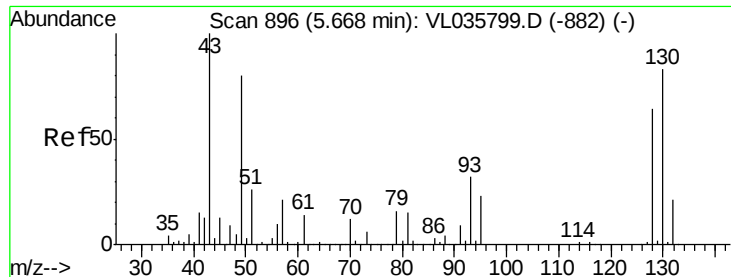
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 0
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.84	57	3980516	10.362	ppbv	99
45) t-1,3-Dichloropropene	9.26	75	1258881	10.725	ppbv	99
46) cis-1,3-Dichloropropene	8.68	75	1564036	10.521	ppbv	98
47) 1,1,2-Trichloroethane	9.45	97	1345405	10.103	ppbv	99
48) Dibromochloromethane	10.28	129	2196404	10.796	ppbv	100
49) Bromoform	13.02	173	1854751	10.804	ppbv	99
50) 4-Methyl-2-Pentanone	8.72	43	2166351	11.179	ppbv	99
51) 2-Hexanone	10.11	43	1771050	11.377	ppbv	99
52) Tetrachloroethene	11.20	164	1269589	9.231	ppbv	99
53) Toluene	9.78	91	3522499	10.056	ppbv	100
54) 1,2-Dibromoethane	10.59	107	2049095	10.117	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.10	131	1704935	9.902	ppbv	99
57) Chlorobenzene	12.12	112	2826700	9.267	ppbv	99
58) Ethyl Benzene	12.69	91	4546985	9.732	ppbv	99
59) m/p-Xylene	12.97	91	7698740m	19.476	ppbv	
60) o-Xylene	13.67	91	3746466	9.743	ppbv	99
61) Styrene	13.50	104	2831987	10.051	ppbv	100
62) Isopropylbenzene	14.64	105	5675048	9.389	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.66	83	2645307	8.878	ppbv	99
64) n-propylbenzene	15.54	120	1656611	9.483	ppbv	97
65) tert-Butylbenzene	16.72	119	5029068	9.142	ppbv	99
66) Benzyl Chloride	16.97	91	1632057	8.975	ppbv	98
67) sec-Butylbenzene	17.27	105	6797386	9.169	ppbv	99
69) p-Isopropyltoluene	17.63	119	5601741	9.156	ppbv	99
70) n-Butylbenzene	18.53	91	5469327	9.283	ppbv	99
71) 2-Chlorotoluene	15.43	91	4247928	9.609	ppbv	98
72) 4-Ethyltoluene	15.82	105	4429928	9.498	ppbv	99
73) 1,3,5-Trimethylbenzene	15.98	105	4087387	9.577	ppbv	98
74) 1,2,4-Trimethylbenzene	16.74	105	4241397	9.274	ppbv	99
75) 1,3-Dichlorobenzene	16.97	146	2651980	9.107	ppbv	100
76) 1,4-Dichlorobenzene	17.11	146	2586507	9.208	ppbv	98
77) 1,2-Dichlorobenzene	17.80	146	2561702	9.025	ppbv	100
78) Hexachloro-1,3-Butadiene	23.35	225	1217453	9.192	ppbv	100
79) Naphthalene	22.17	128	2951805	9.259	ppbv	100
80) Naphthalene, 2-methyl-	24.96	142	458012	8.816	ppbv	99
81) 1,2,4-Trichlorobenzene	21.90	180	1588527	8.919	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 888

Delta R.T. -0.03 min

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MSVOA_L

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VSTDCCC010

Tot Ion: 49 Resp: 1004506

Ion Ratio Lower Upper

49 100

128 81.1 41.5 124.6

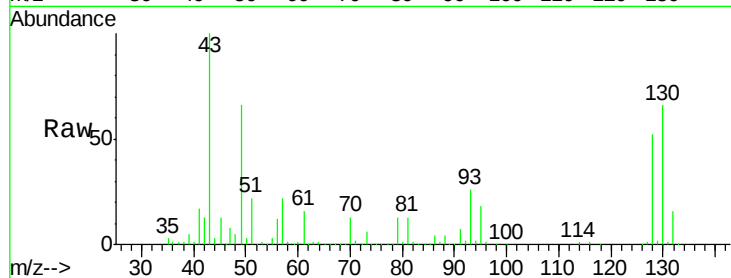
130 105.2 53.7 161.1

Manual Integrations

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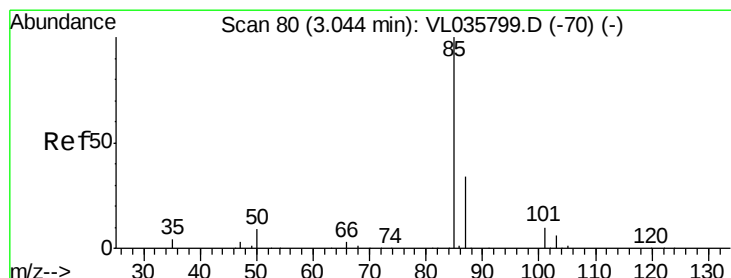
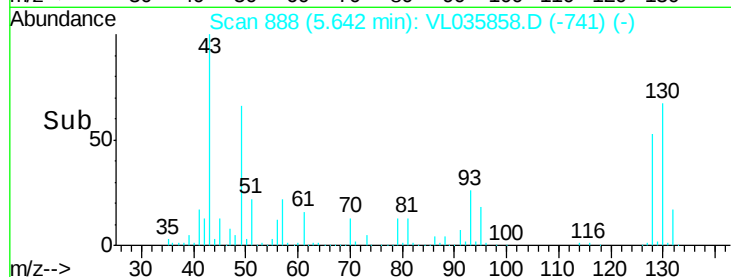
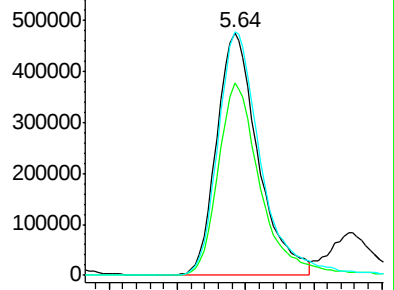
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 9.158 ppbv

RT: 3.02 min Scan# 74

Delta R.T. -0.02 min

Lab File: VL035858.D

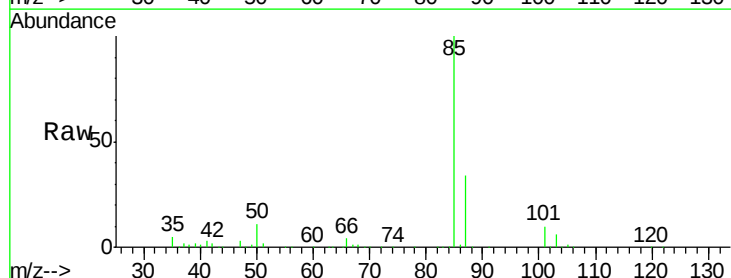
Acq: 5 Nov 2020 11:42

Tgt Ion: 85 Resp: 1732020

Ion Ratio Lower Upper

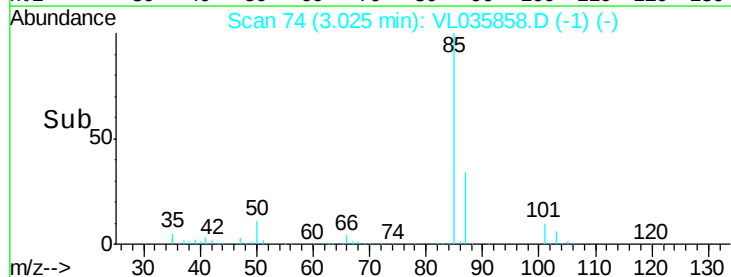
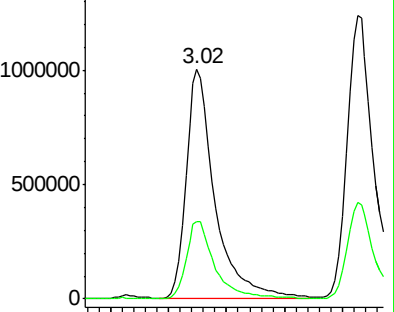
85 100

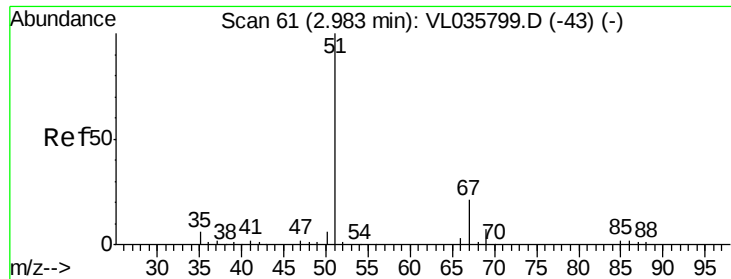
87 33.8 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.990 ppbv

RT: 2.96 min Scan# 55

Delta R.T. -0.02 min

Lab File: VL035858.D

Acq: 5 Nov 2020 11:42

Tot Ion: 51 Resp: 1201672

Ion Ratio Lower Upper

51 100

67 21.9 17.0 25.4

Instrument :

MSVOA_L

ClientSampleId :

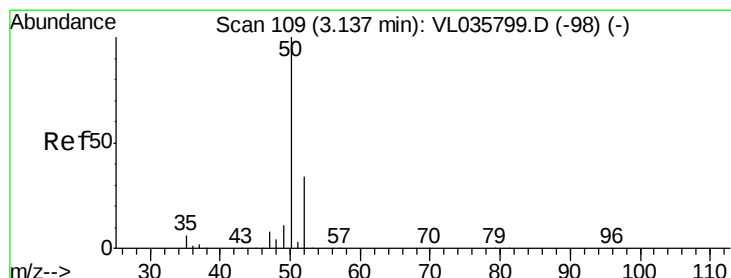
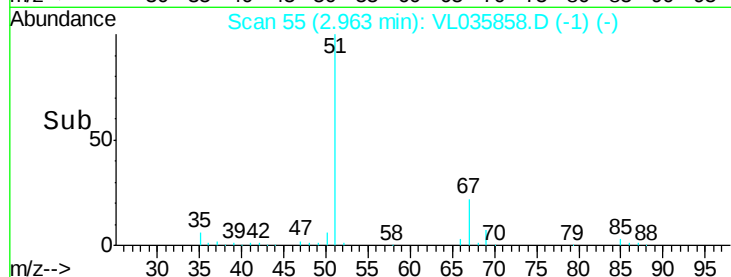
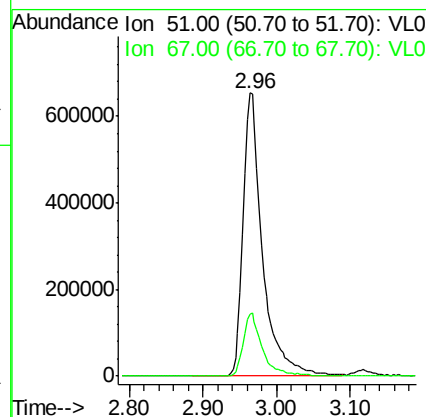
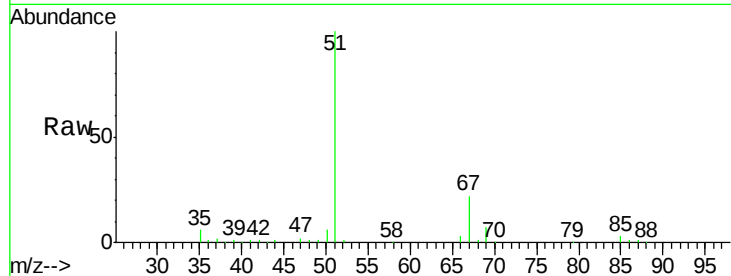
VSTDCCC010

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#4

Chloromethane

Concen: 10.075 ppbv

RT: 3.12 min Scan# 103

Delta R.T. -0.02 min

Lab File: VL035858.D

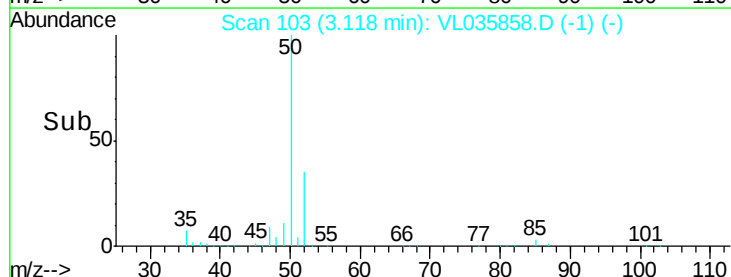
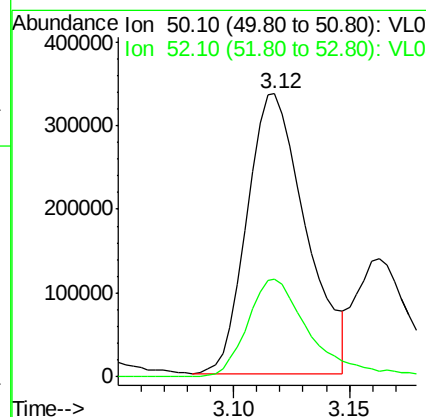
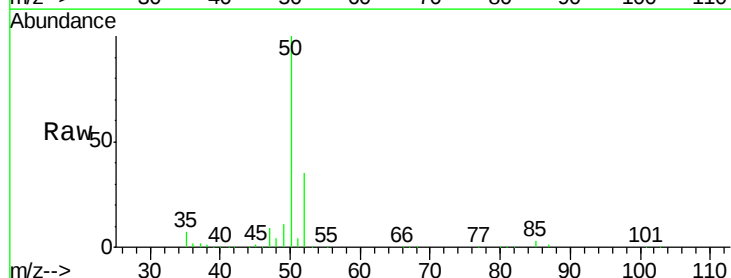
Acq: 5 Nov 2020 11:42

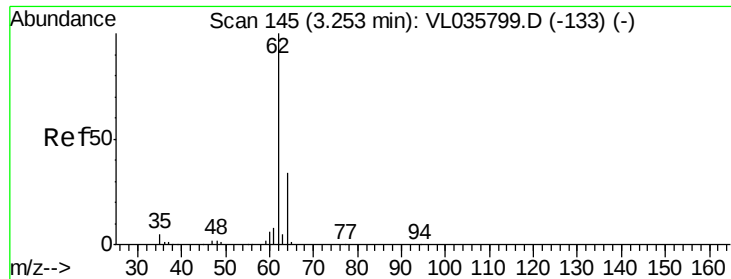
Tgt Ion: 50 Resp: 588794

Ion Ratio Lower Upper

50 100

52 35.0 27.1 40.7





#5

Vinyl Chloride

Concen: 9.744 ppbv

RT: 3.23 min Scan# 139

Delta R.T. -0.02 min

Lab File: VL035858.D

Acq: 5 Nov 2020 11:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 725891

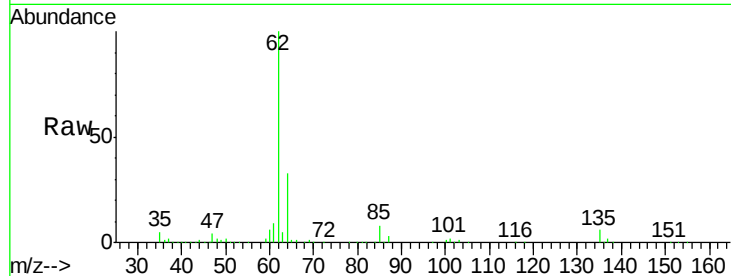
Ion Ratio Lower Upper

62 100

64 32.9 26.9 40.3

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.23

400000

300000

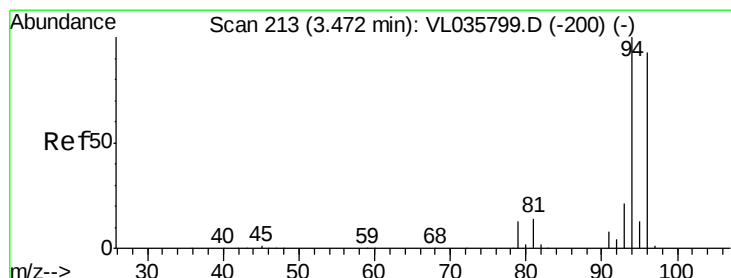
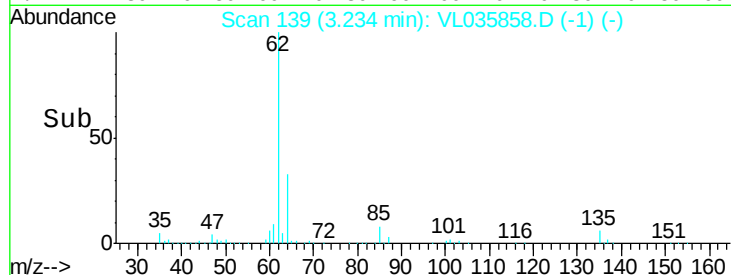
200000

100000

0

3.15 3.20 3.25 3.30

Time-->



#6

Bromomethane

Concen: 10.017 ppbv

RT: 3.45 min Scan# 206

Delta R.T. -0.02 min

Lab File: VL035858.D

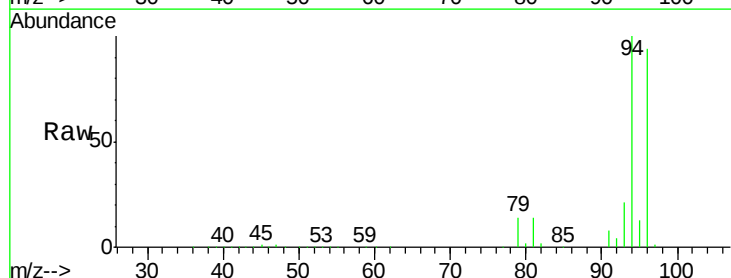
Acq: 5 Nov 2020 11:42

Tgt Ion: 94 Resp: 600114

Ion Ratio Lower Upper

94 100

96 94.0 74.6 111.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.45

300000

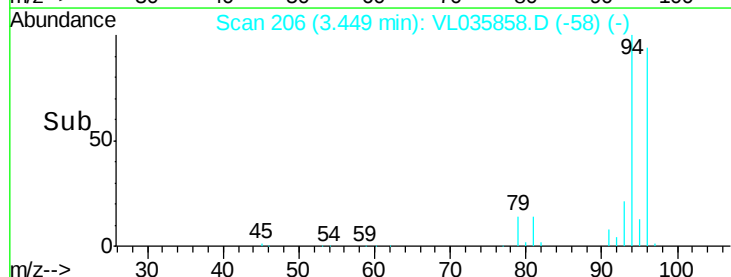
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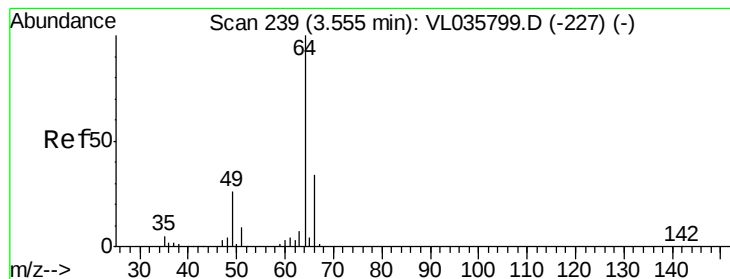
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0

3.35 3.40 3.45 3.50 3.55

Time-->





#7

Chloroethane

Concen: 10.472 ppbv

RT: 3.53 min Scan# 232

Delta R.T. -0.02 min

Lab File: VL035858.D

Acq: 5 Nov 2020 11:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 274563

Ion Ratio Lower Upper

64 100

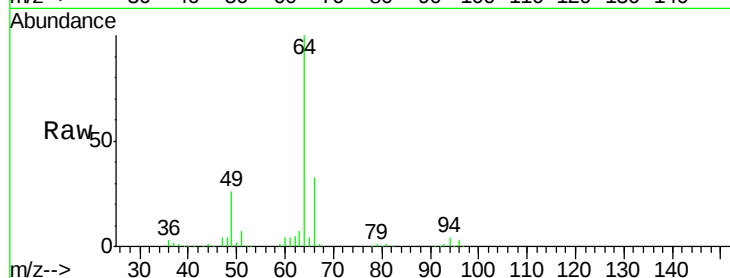
66 32.9 27.0 40.6

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

3.53

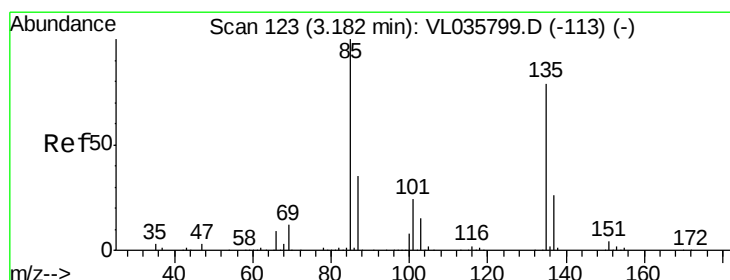
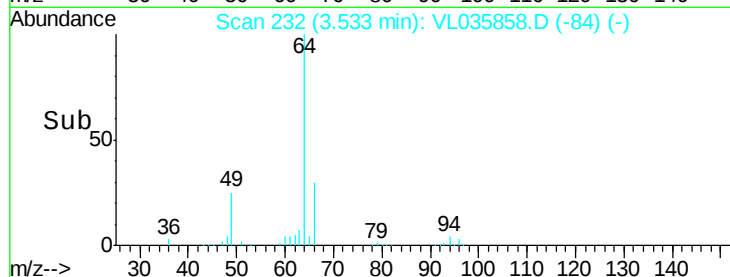
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50000

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Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.785 ppbv

RT: 3.16 min Scan# 117

Delta R.T. -0.02 min

Lab File: VL035858.D

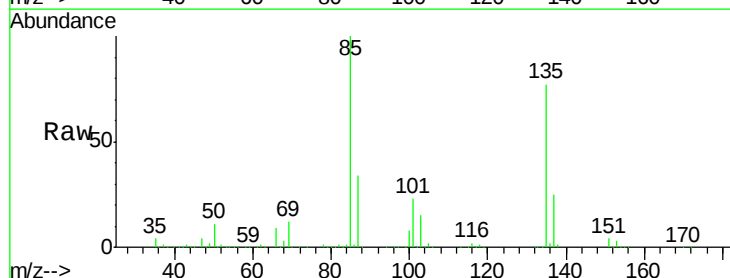
Acq: 5 Nov 2020 11:42

Tgt Ion: 85 Resp: 2117915

Ion Ratio Lower Upper

85 100

135 79.3 64.6 96.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): VL0

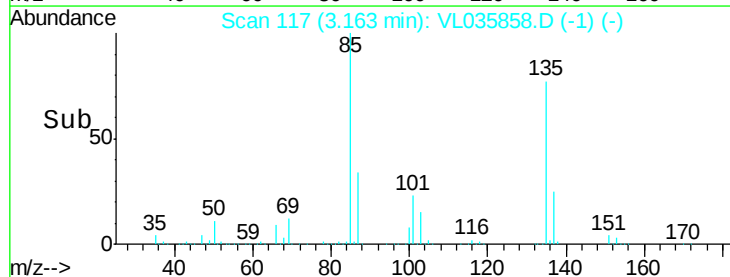
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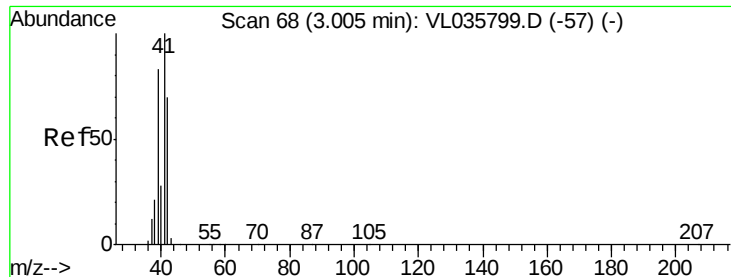
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Time-->





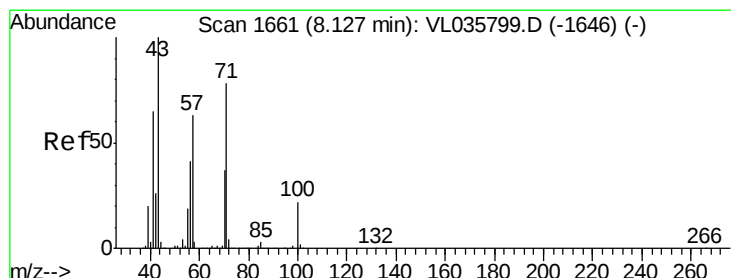
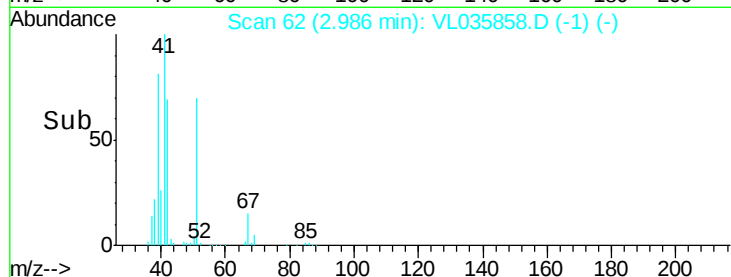
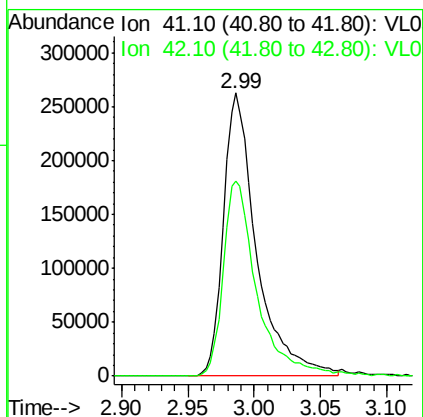
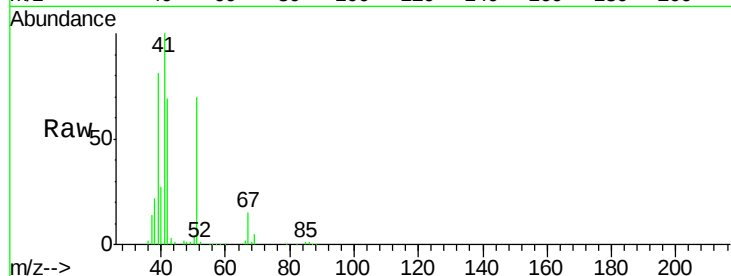
#9
 Propene
 Concen: 10.375 ppbv
 RT: 2.99 min Scan# 62
 Delta R.T. -0.02 min
 Lab File: VL035858.D
 Acq: 5 Nov 2020 11:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 41 Resp: 456778
 Ion Ratio Lower Upper
 41 100
 42 70.7 56.2 84.4

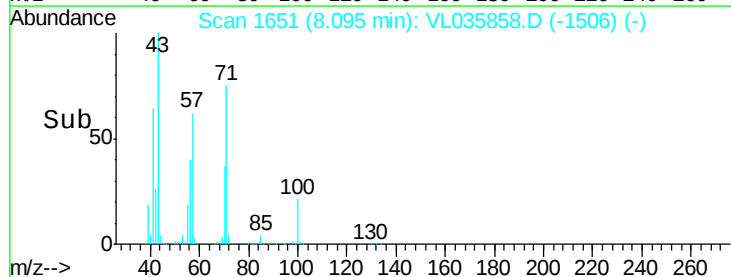
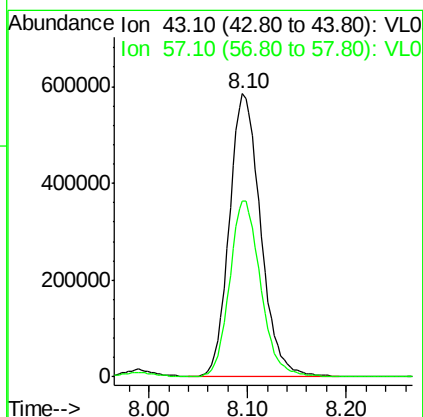
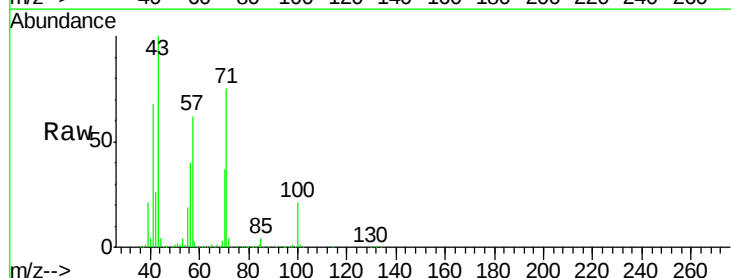
Manual Integrations
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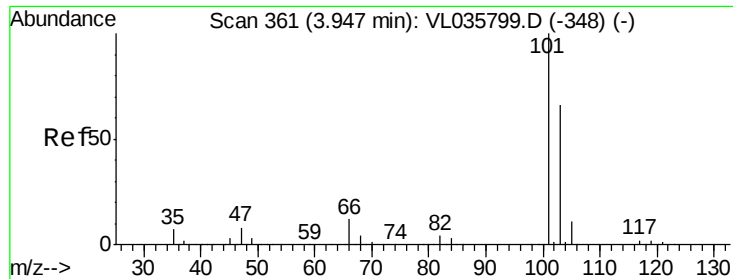
MMDadoda
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#10
 Heptane
 Concen: 10.597 ppbv
 RT: 8.10 min Scan# 1651
 Delta R.T. -0.03 min
 Lab File: VL035858.D
 Acq: 5 Nov 2020 11:42

Tgt Ion: 43 Resp: 1288736
 Ion Ratio Lower Upper
 43 100
 57 62.1 50.0 75.0





#11

Trichlorofluoromethane

Concen: 10.515 ppbv

RT: 3.92 min Scan# 354

Delta R.T. -0.02 min

Lab File: VL035858.D

Acq: 5 Nov 2020 11:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:101 Resp: 2496945

Ion Ratio Lower Upper

101 100

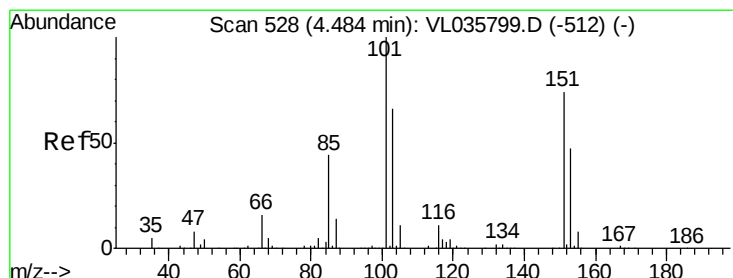
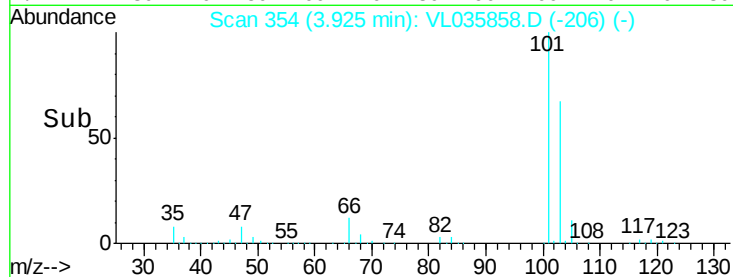
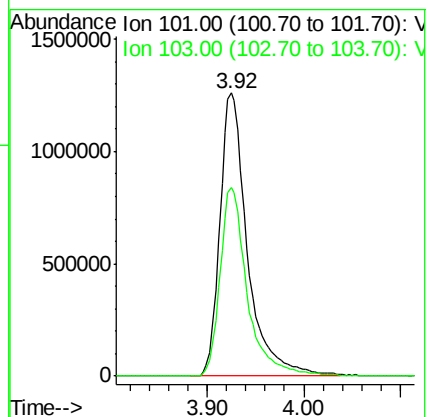
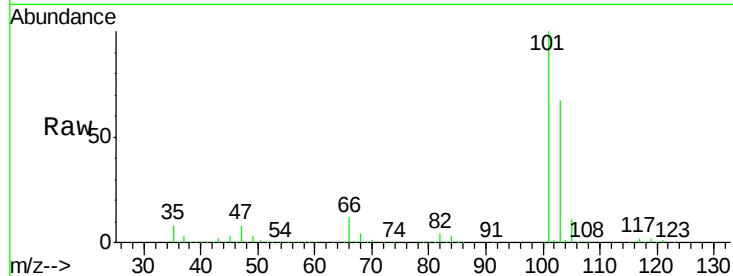
103 66.8 53.0 79.4

Manual Integrations

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#12

1,1,2-Trichlorotrifluoroethane

Concen: 10.282 ppbv

RT: 4.46 min Scan# 520

Delta R.T. -0.03 min

Lab File: VL035858.D

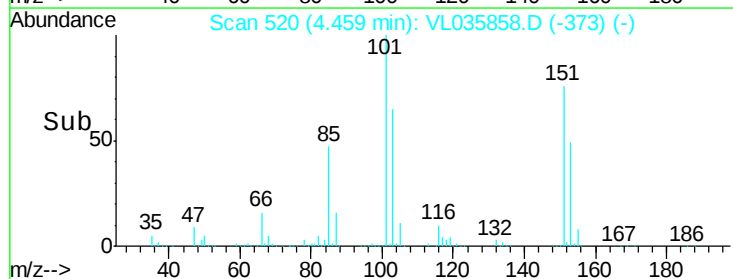
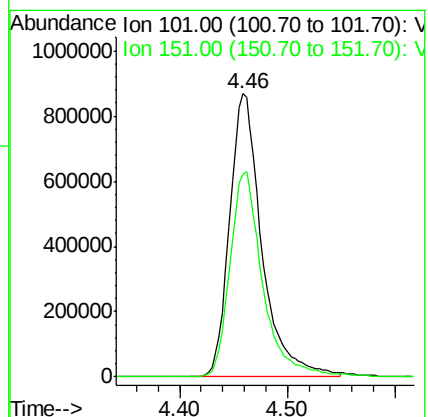
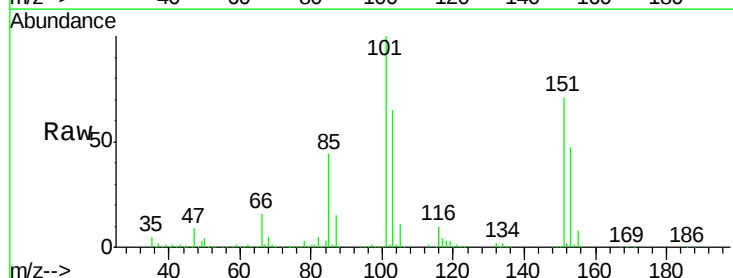
Acq: 5 Nov 2020 11:42

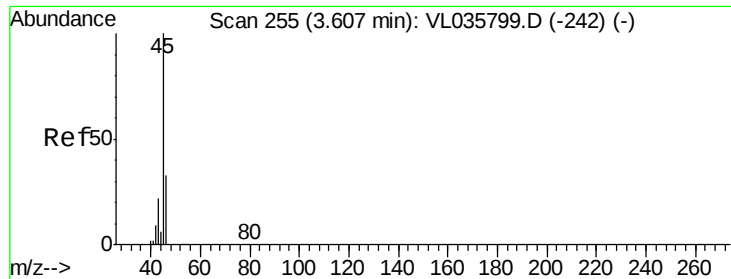
Tgt Ion:101 Resp: 1818008

Ion Ratio Lower Upper

101 100

151 73.7 58.9 88.3





#13

Ethanol

Concen: 7.212 ppbv m

RT: 3.59 min Scan# 249

Delta R.T. -0.02 min

Lab File: VL035858.D

Acq: 5 Nov 2020 11:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 45 Resp: 68886

Ion Ratio Lower Upper

45 100

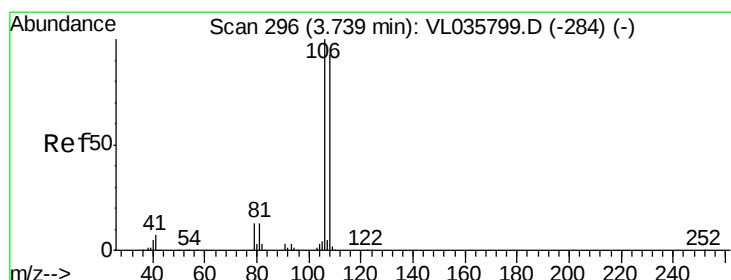
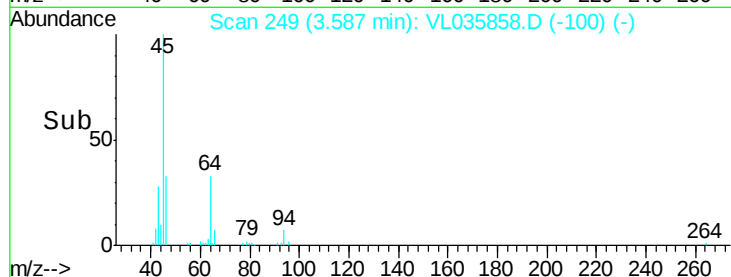
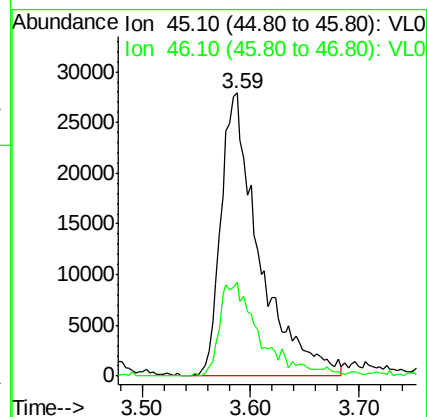
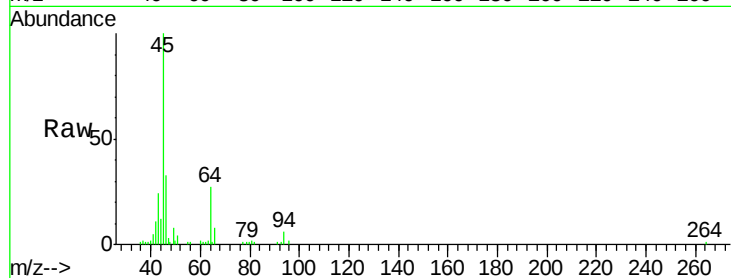
46 35.0 16.1 64.5

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#14

Bromoethene

Concen: 9.599 ppbv

RT: 3.72 min Scan# 289

Delta R.T. -0.02 min

Lab File: VL035858.D

Acq: 5 Nov 2020 11:42

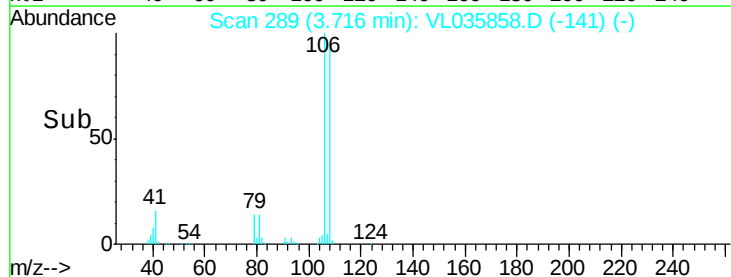
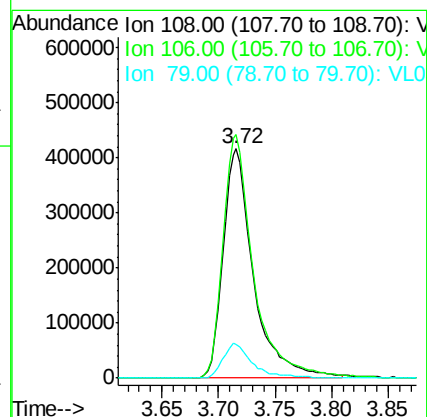
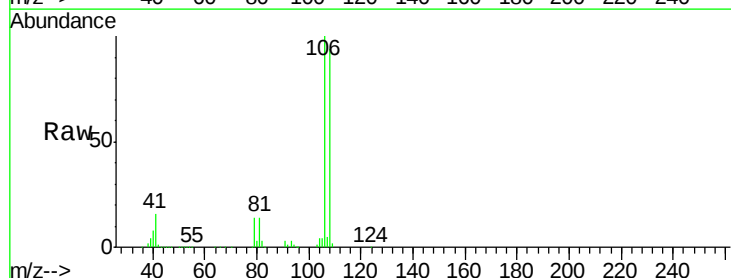
Tgt Ion: 108 Resp: 781023

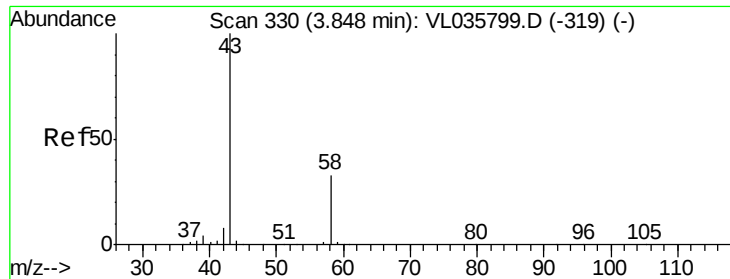
Ion Ratio Lower Upper

108 100

106 107.4 85.3 127.9

79 15.1 11.6 17.4





#15

Acetone

Concen: 9.684 ppbv

RT: 3.83 min Scan# 323

Delta R.T. -0.02 min

Lab File: VL035858.D

Acq: 5 Nov 2020 11:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1039962

Ion Ratio Lower Upper

43 100

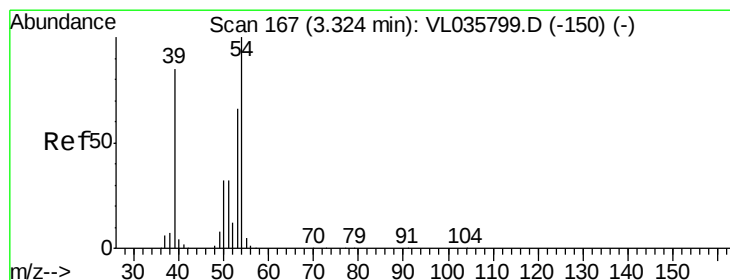
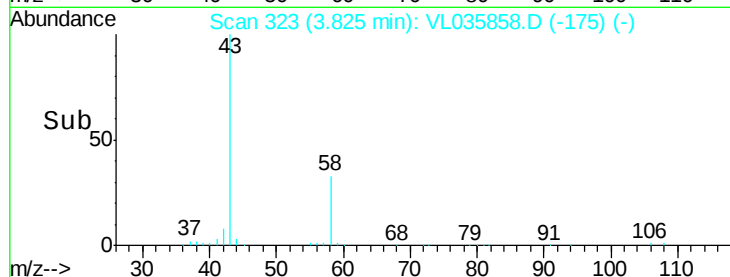
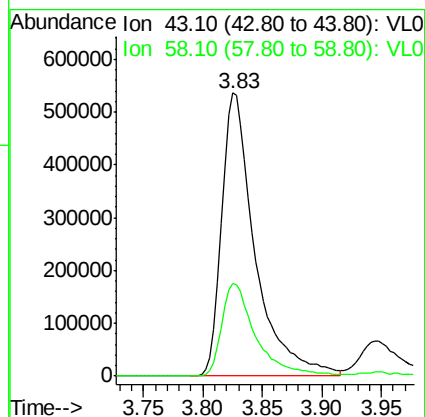
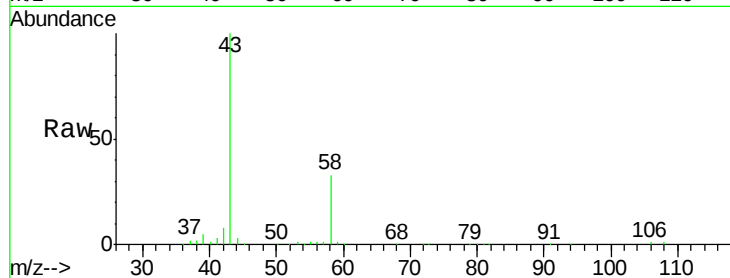
58 33.3 27.5 41.3

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#16

1,3-Butadiene

Concen: 10.409 ppbv

RT: 3.30 min Scan# 161

Delta R.T. -0.02 min

Lab File: VL035858.D

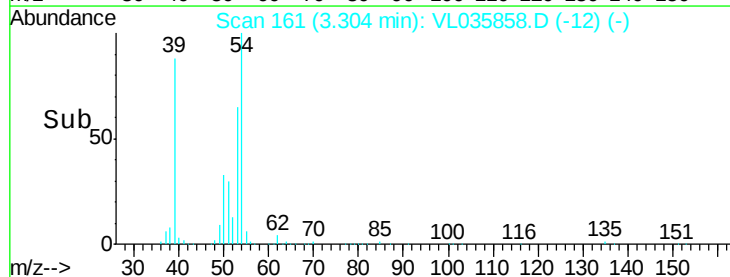
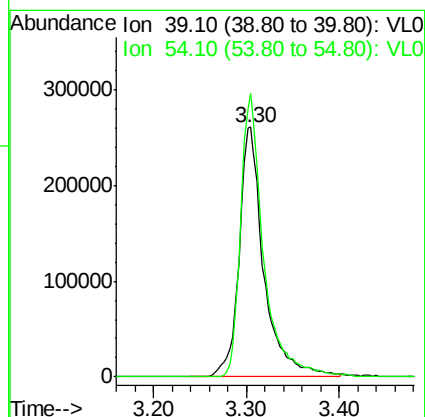
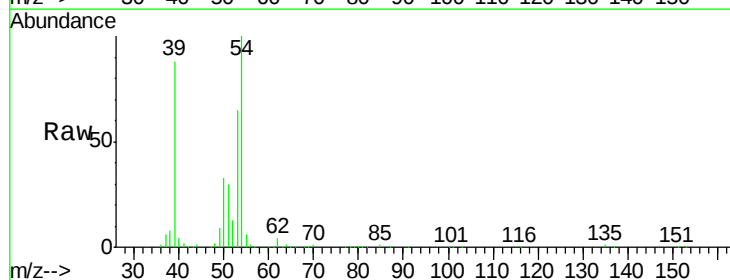
Acq: 5 Nov 2020 11:42

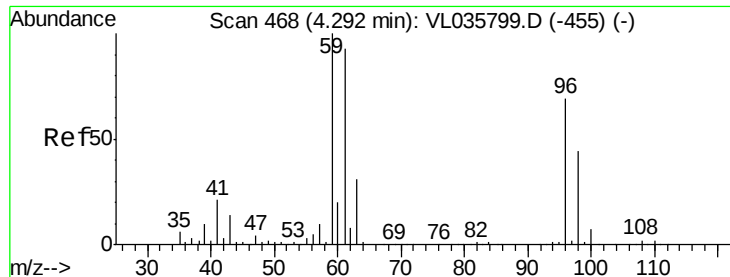
Tgt Ion: 39 Resp: 481275

Ion Ratio Lower Upper

39 100

54 106.8 87.1 130.7





#17

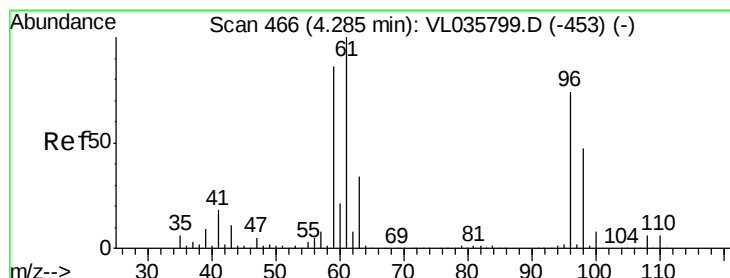
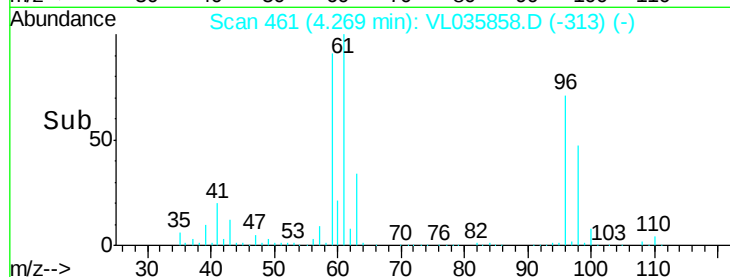
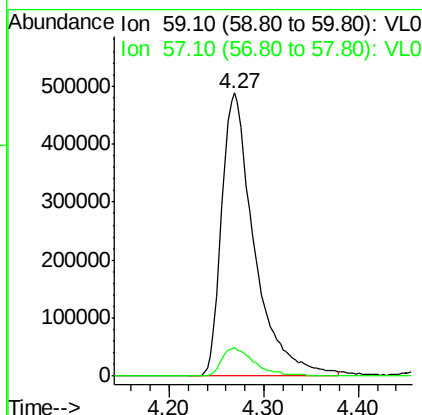
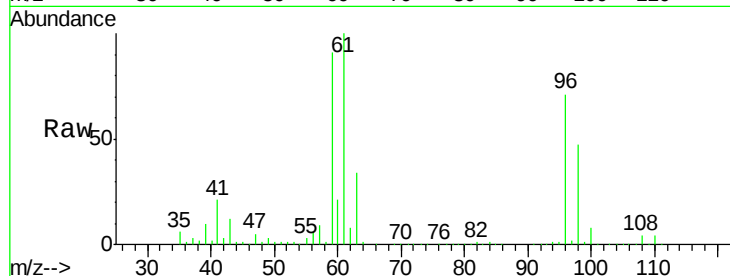
tert-Butyl alcohol
Concen: 8.236 ppbv
RT: 4.27 min Scan# 461
Delta R.T. -0.02 min
Lab File: VL035858.D
Acq: 5 Nov 2020 11:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 59 Resp: 1172136
Ion Ratio Lower Upper
59 100
57 10.5 8.2 12.4

Manual Integrations
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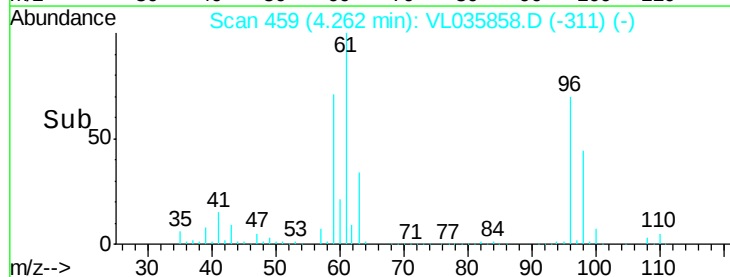
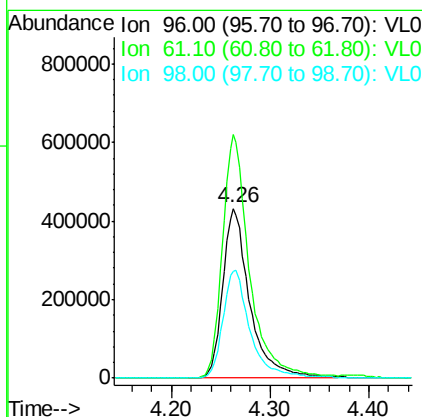
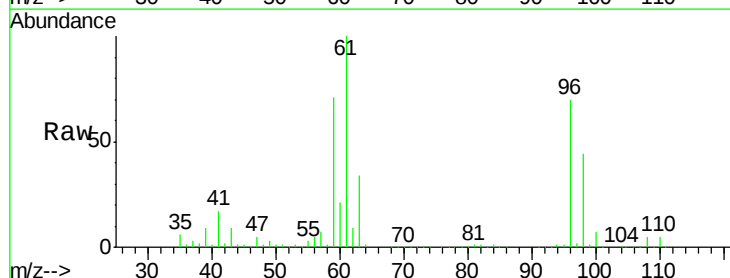
MMDadoda
11/9/2020 1:38:32 PM

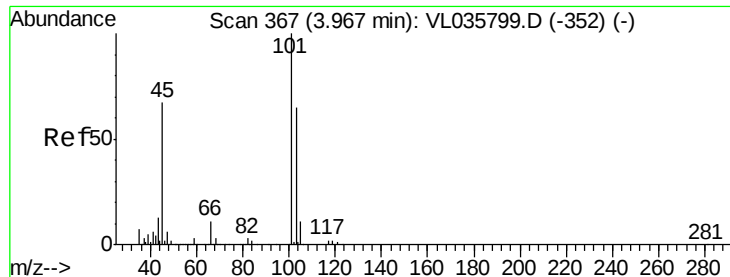


#18

1,1-Dichloroethene
Concen: 10.230 ppbv
RT: 4.26 min Scan# 459
Delta R.T. -0.02 min
Lab File: VL035858.D
Acq: 5 Nov 2020 11:42

Tgt Ion: 96 Resp: 830470
Ion Ratio Lower Upper
96 100
61 143.7 108.5 162.7
98 62.7 50.7 76.1





#19

Isopropyl Alcohol

Concen: 7.846 ppbv

RT: 3.94 min Scan# 360

Delta R.T. -0.02 min

Lab File: VL035858.D

Acq: 5 Nov 2020 11:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 45 Resp: 517786

Ion Ratio Lower Upper

45 100

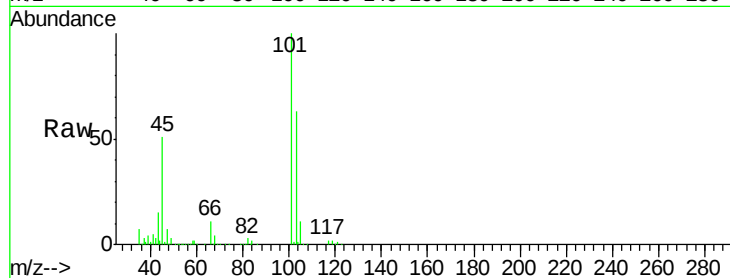
58 3.3 2.6 3.8

Manual Integrations

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.94

250000

200000

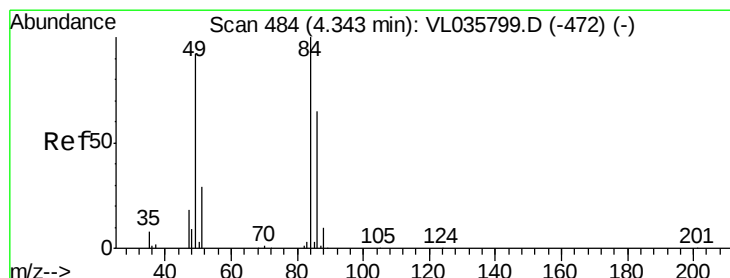
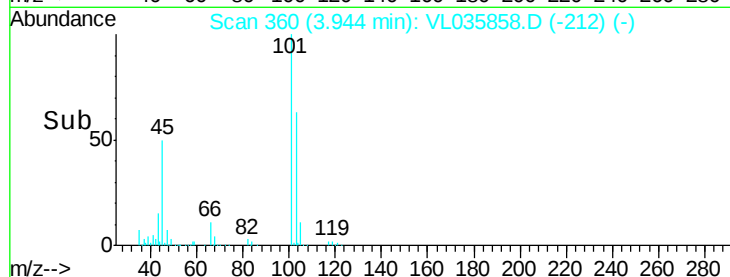
150000

100000

50000

0

Time-->



#20

Methylene Chloride

Concen: 8.966 ppbv

RT: 4.32 min Scan# 477

Delta R.T. -0.02 min

Lab File: VL035858.D

Acq: 5 Nov 2020 11:42

Tgt Ion: 84 Resp: 677847

Ion Ratio Lower Upper

84 100

49 93.0 73.8 110.8

51 28.3 23.0 34.4

86 65.4 52.1 78.1

Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

500000

400000

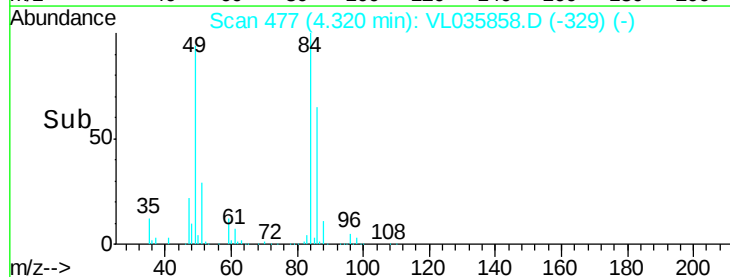
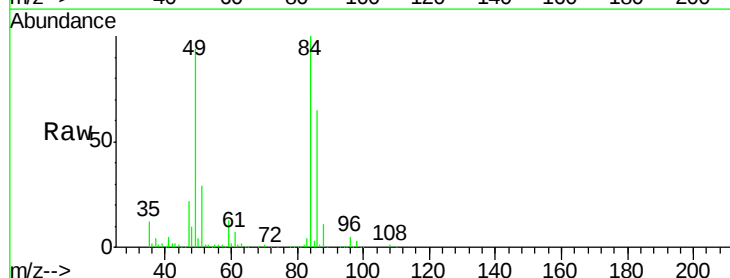
300000

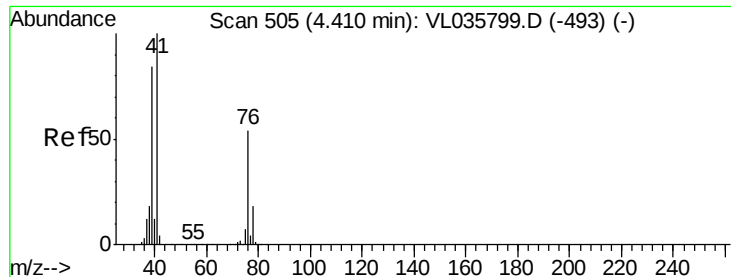
200000

100000

0

Time-->





#21

Allvl Chloride

Concen: 10.367 ppbv

RT: 4.38 min Scan# 497

Delta R.T. -0.03 min

Lab File: VL035858.D

Acq: 5 Nov 2020 11:42

Instrument :

MSVOA_L

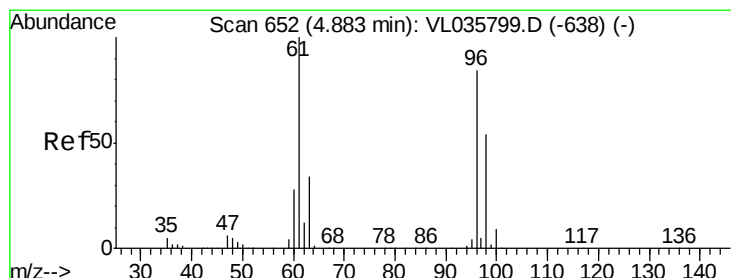
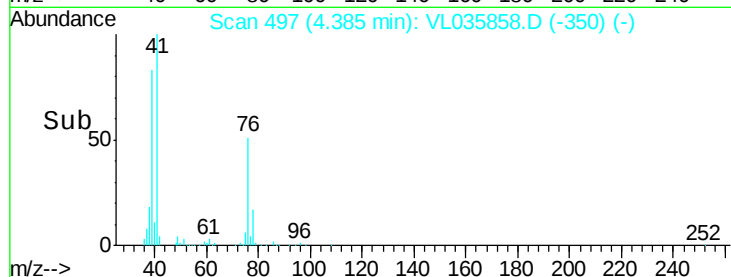
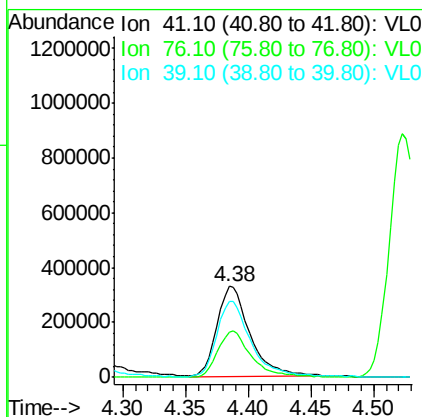
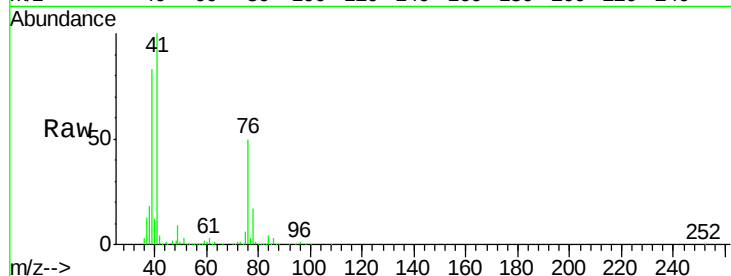
ClientSampleId :

VSTDCCC010

Tot Ion:	41	Resp:	602083
Ion Ratio	Lower	Upper	
41	100		
76	53.1	42.6	63.8
39	86.8	67.0	100.4

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 10.307 ppbv

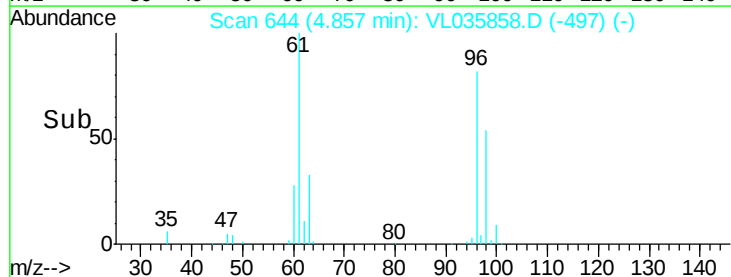
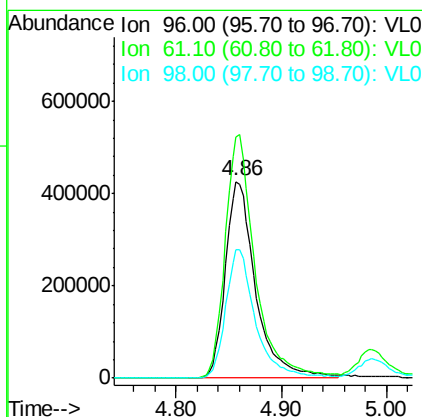
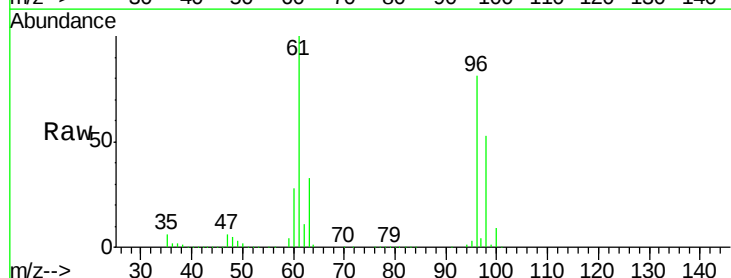
RT: 4.86 min Scan# 644

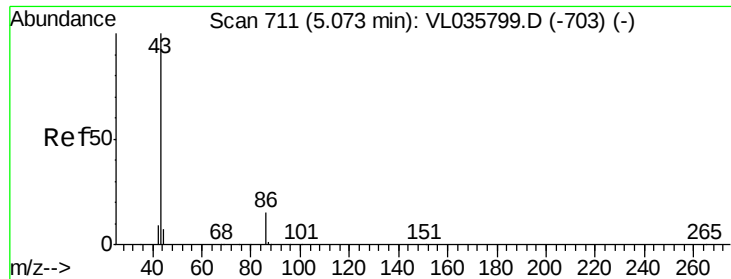
Delta R.T. -0.03 min

Lab File: VL035858.D

Acq: 5 Nov 2020 11:42

Tgt Ion:	96	Resp:	848233
Ion Ratio	Lower	Upper	
96	100		
61	122.9	95.4	143.0
98	65.4	51.8	77.6





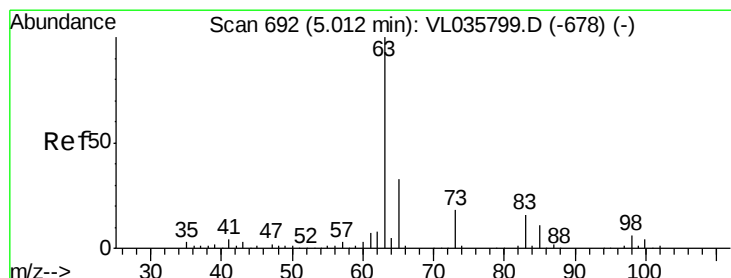
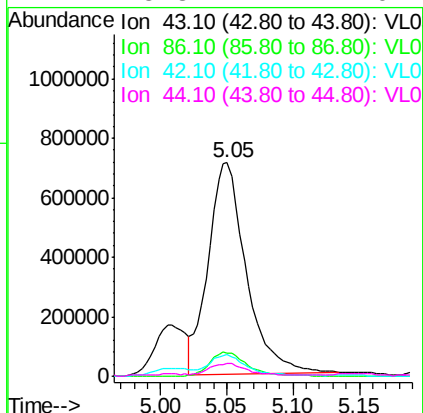
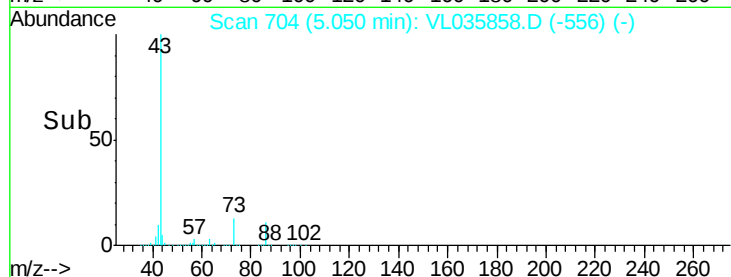
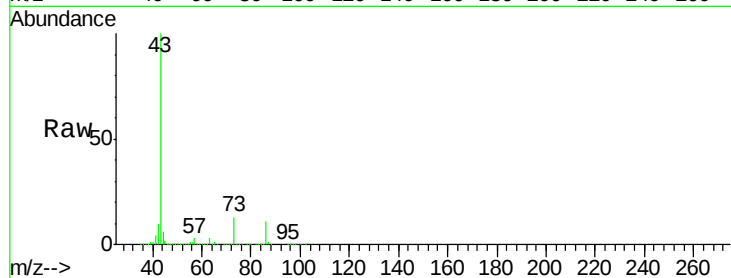
#23
 Vinyl Acetate
 Concen: 9.401 ppbv
 RT: 5.05 min Scan# 704
 Delta R.T. -0.02 min
 Lab File: VL035858.D
 Acq: 5 Nov 2020 11:42

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010

Tot Ion	43	Resp	1415117
Ion	Ratio	Lower	Upper
43	100		
86	10.7	9.8	14.6
42	9.8	8.1	12.1
44	5.3	4.2	6.4

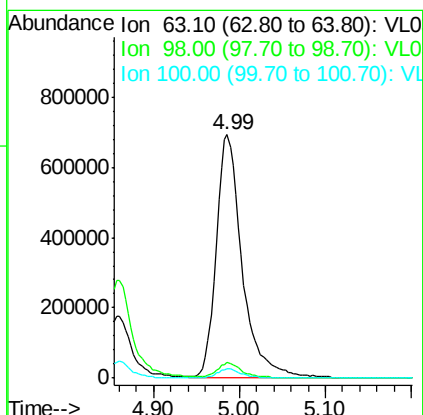
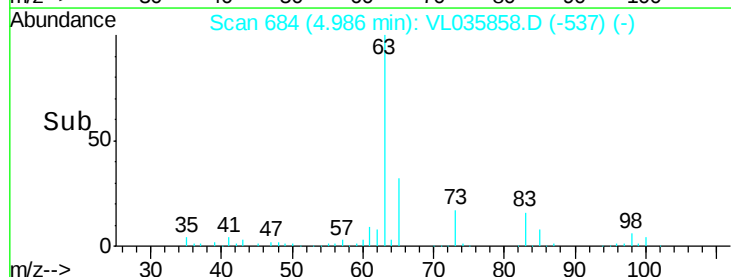
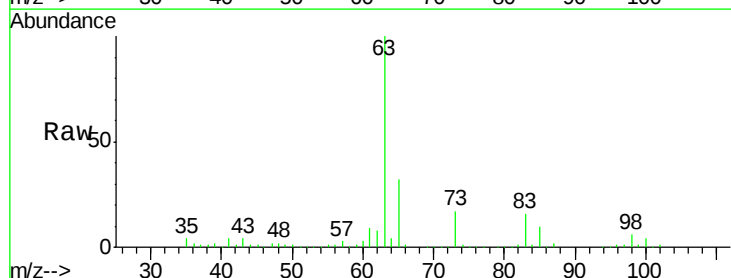
Manual Integrations
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 11/9/2020 1:38:32 PM



#24
 1,1-Dichloroethane
 Concen: 10.105 ppbv
 RT: 4.99 min Scan# 684
 Delta R.T. -0.03 min
 Lab File: VL035858.D
 Acq: 5 Nov 2020 11:42

Tgt Ion	63	Resp	1449190
Ion	Ratio	Lower	Upper
63	100		
98	6.2	3.0	9.2
100	3.9	1.8	5.4





#25

Ethyl Acetate

Concen: 10.407 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.03 min

Lab File: VL035858.D

Acq: 5 Nov 2020 11:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 2201738

Ion Ratio Lower Upper

43 100

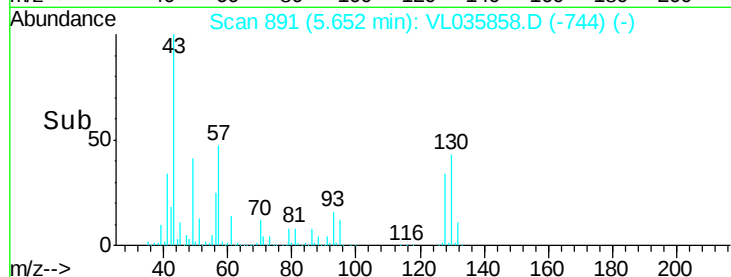
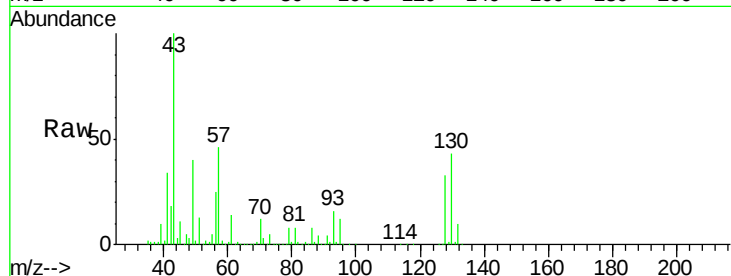
45 10.4 8.5 12.7

61 13.1 10.7 16.1

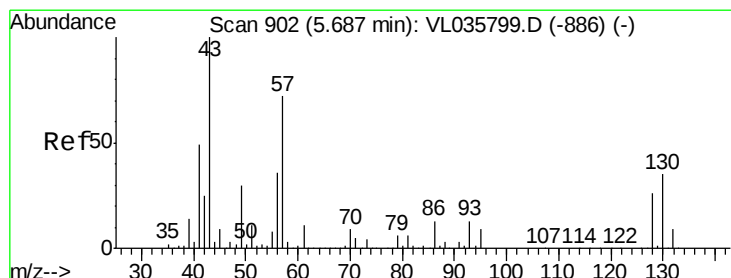
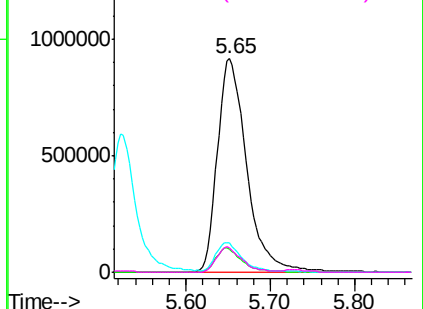
70 10.2 8.6 12.8

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



#26

Hexane

Concen: 9.927 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.03 min

Lab File: VL035858.D

Acq: 5 Nov 2020 11:42

Tgt Ion: 57 Resp: 1158215

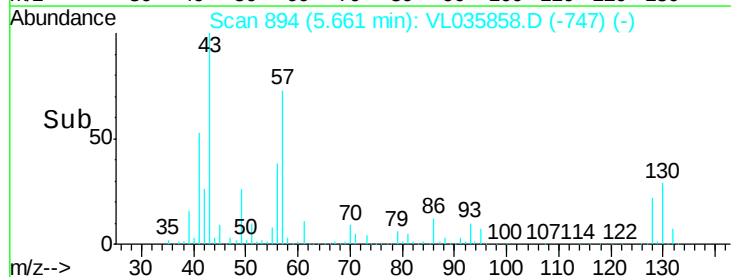
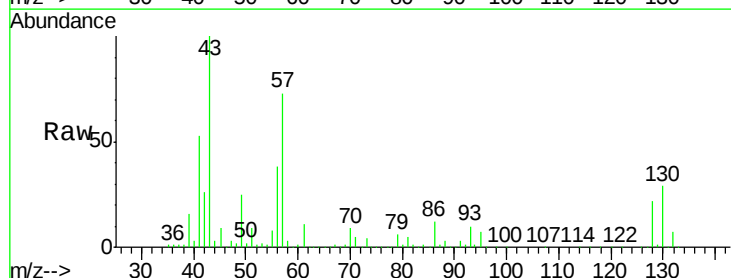
Ion Ratio Lower Upper

57 100

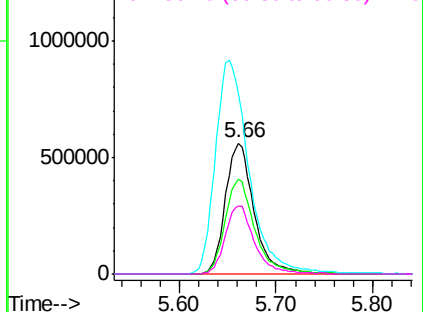
41 75.7 58.9 88.3

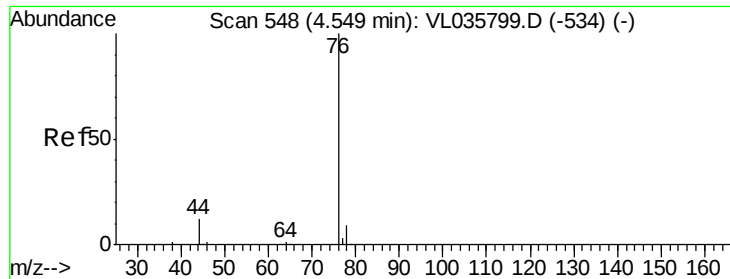
43 190.6 150.2 225.2

56 53.5 42.4 63.6



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





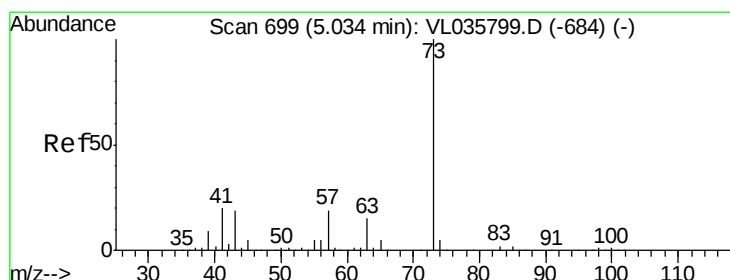
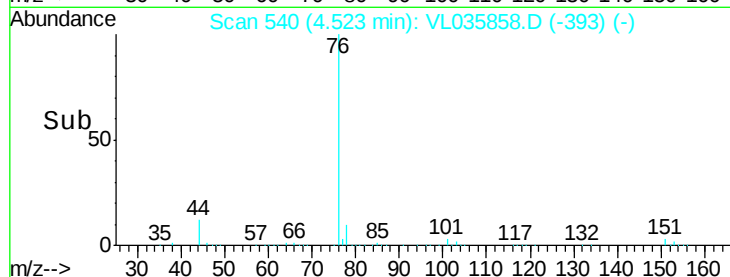
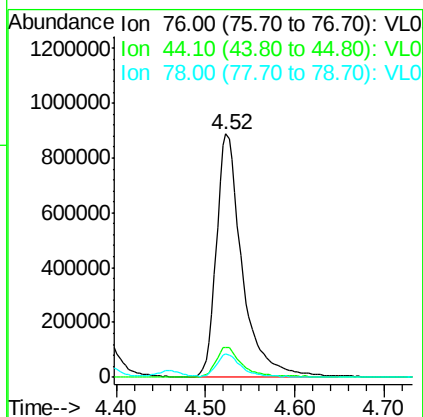
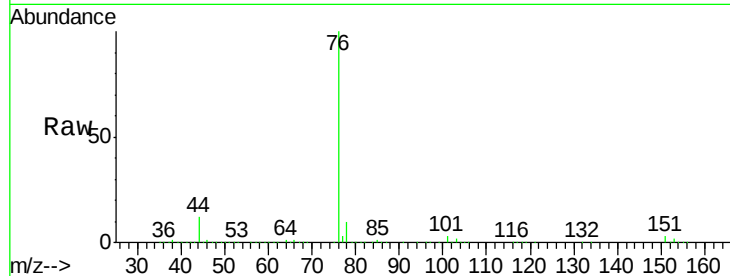
#27
Carbon Disulfide
Concen: 10.141 ppbv
RT: 4.52 min Scan# 540
Delta R.T. -0.03 min
Lab File: VL035858.D
Acq: 5 Nov 2020 11:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 76 Resp: 1772909
Ion Ratio Lower Upper
76 100
44 12.4 9.9 14.9
78 9.8 8.1 12.1

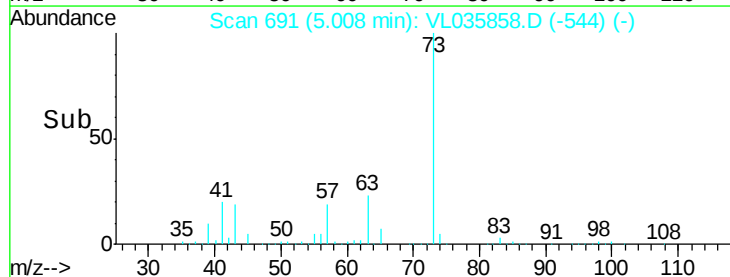
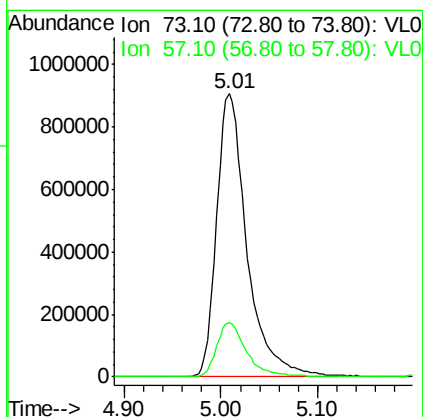
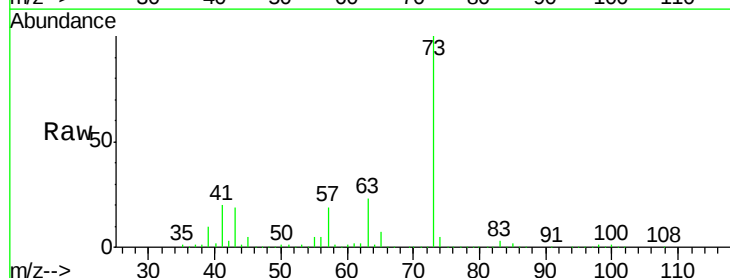
Manual Integrations
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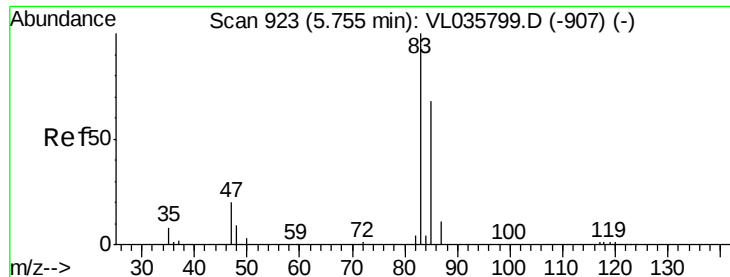
MMDadoda
11/9/2020 1:38:32 PM



#28
Methyl tert-Butyl Ether
Concen: 9.412 ppbv
RT: 5.01 min Scan# 691
Delta R.T. -0.03 min
Lab File: VL035858.D
Acq: 5 Nov 2020 11:42

Tgt Ion: 73 Resp: 1972093
Ion Ratio Lower Upper
73 100
57 19.2 15.4 23.2





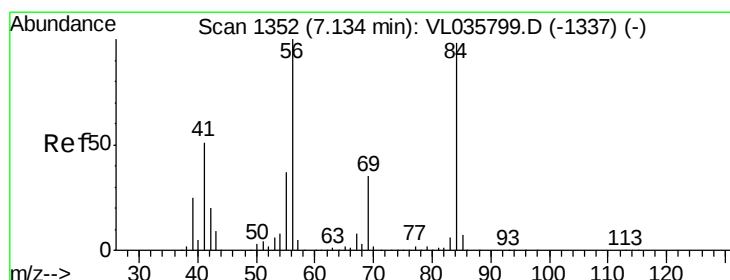
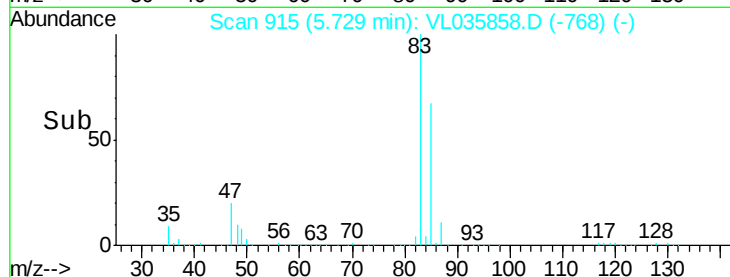
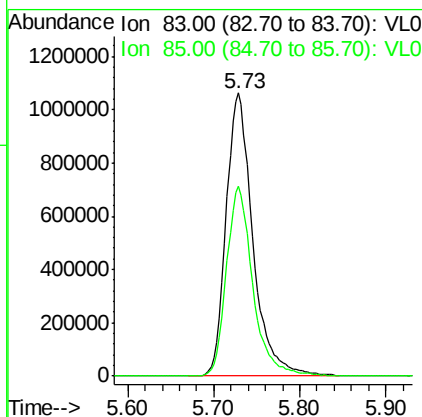
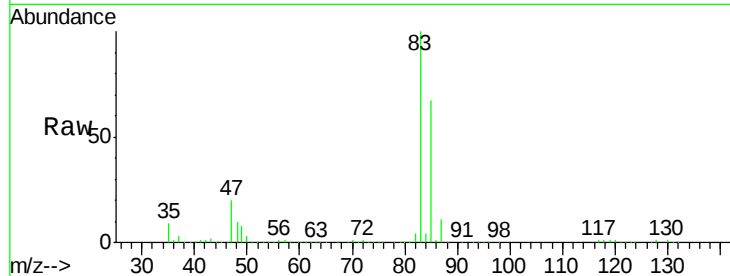
#29
Chloroform
Concen: 10.023 ppbv
RT: 5.73 min Scan# 915
Delta R.T. -0.03 min
Lab File: VL035858.D
Acq: 5 Nov 2020 11:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 83 Resp: 2298611
Ion Ratio Lower Upper
83 100
85 66.9 54.6 81.8

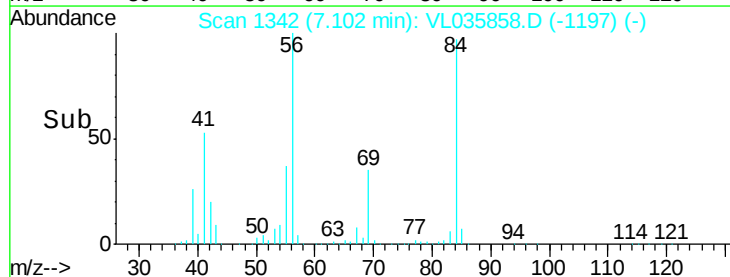
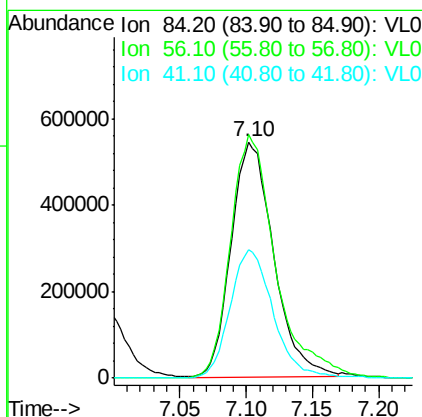
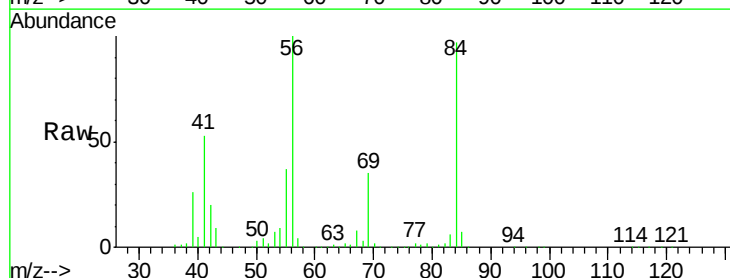
Manual Integrations
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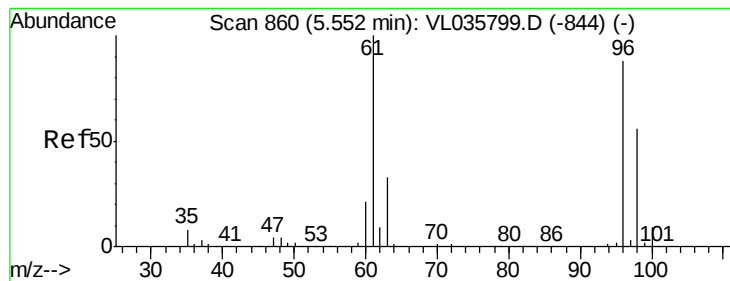
MMDadoda
11/9/2020 1:38:32 PM



#30
Cyclohexane
Concen: 9.591 ppbv
RT: 7.10 min Scan# 1342
Delta R.T. -0.03 min
Lab File: VL035858.D
Acq: 5 Nov 2020 11:42

Tgt Ion: 84 Resp: 1218761
Ion Ratio Lower Upper
84 100
56 109.8 86.4 129.6
41 55.2 42.1 63.1





#31

cis-1,2-Dichloroethene

Concen: 10.137 ppbv

RT: 5.52 min Scan# 851

Delta R.T. -0.03 min

Lab File: VL035858.D

Acq: 5 Nov 2020 11:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 61 Resp: 1216725

Ion Ratio Lower Upper

61 100

96 84.3 70.3 105.5

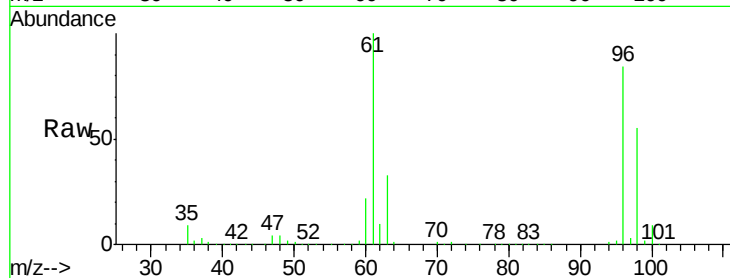
98 54.5 45.0 67.6

Manual Integrations

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MMDadoda

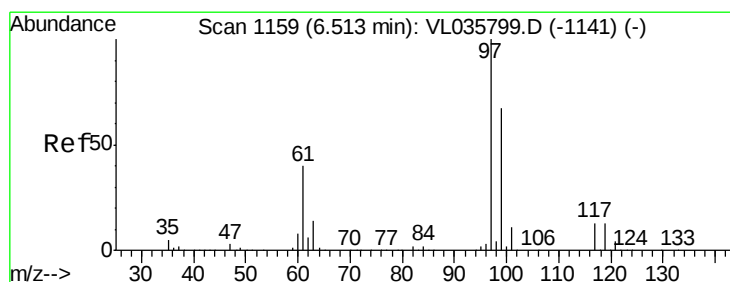
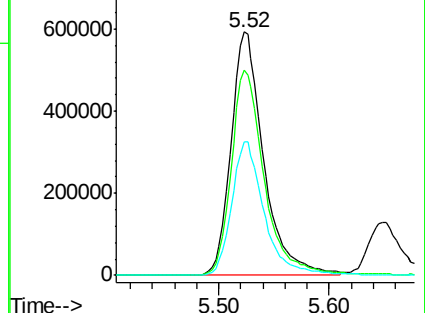
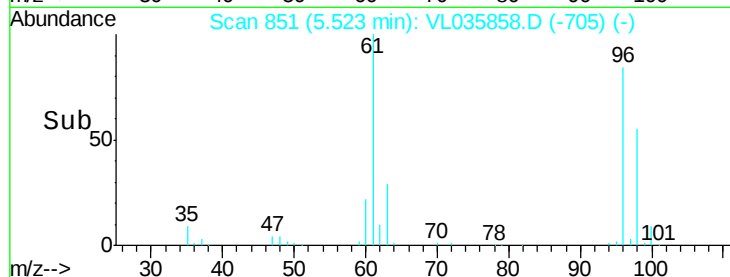
11/9/2020 1:38:32 PM



Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 9.356 ppbv

RT: 6.48 min Scan# 1150

Delta R.T. -0.03 min

Lab File: VL035858.D

Acq: 5 Nov 2020 11:42

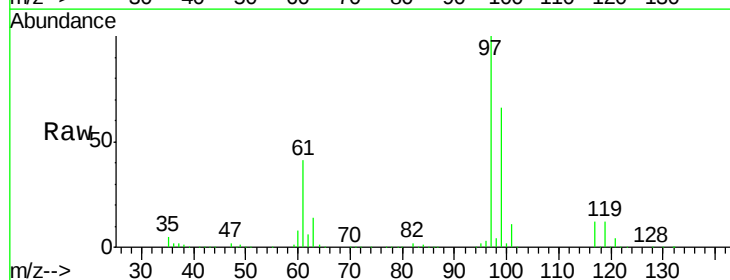
Tgt Ion: 97 Resp: 2238971

Ion Ratio Lower Upper

97 100

99 65.7 52.3 78.5

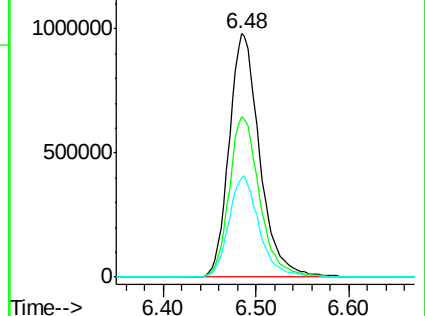
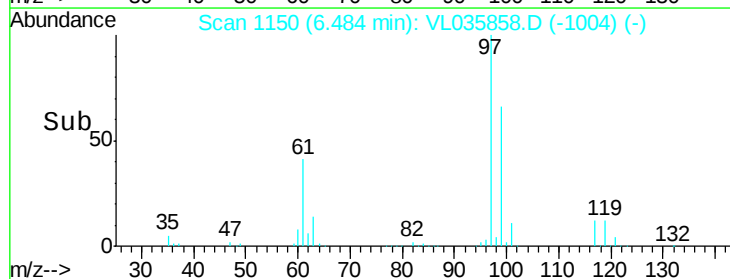
61 41.3 32.0 48.0

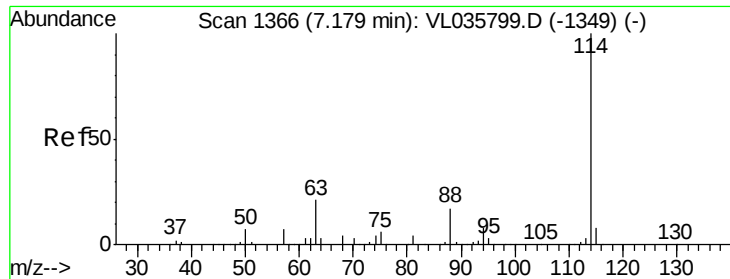


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0





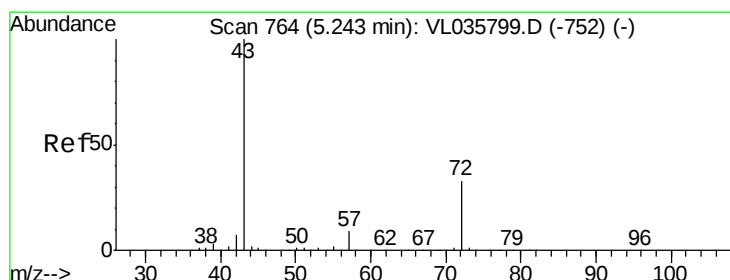
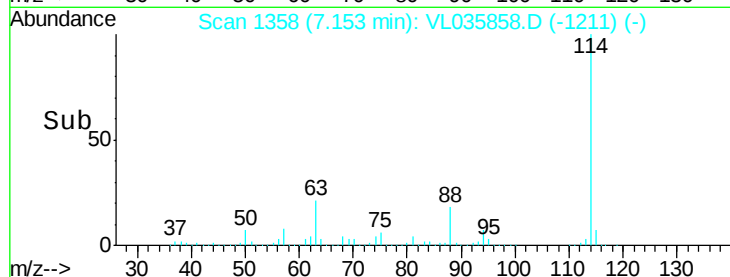
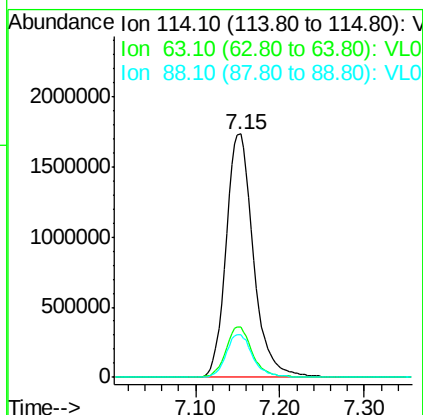
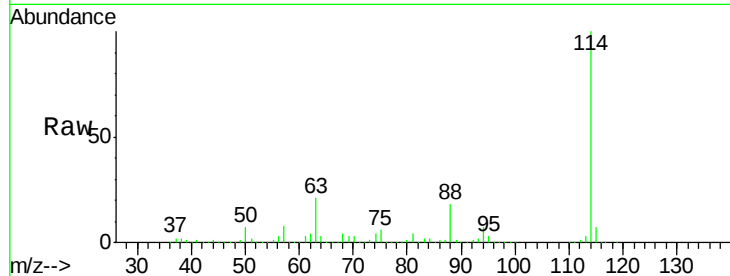
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1358
 Delta R.T. -0.03 min
 Lab File: VL035858.D
 Acq: 5 Nov 2020 11:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.4	16.1	24.1
88	17.3	13.7	20.5

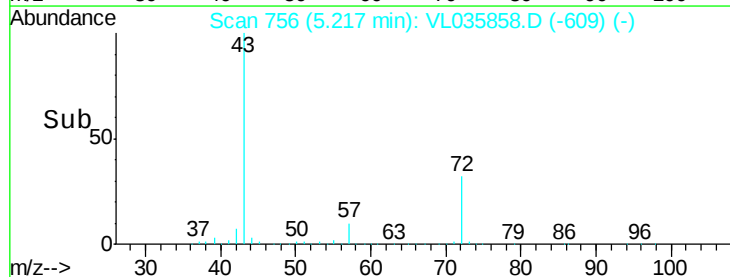
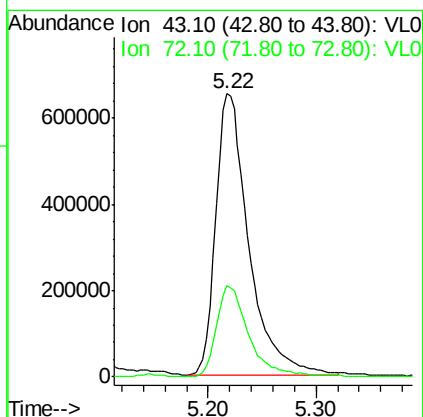
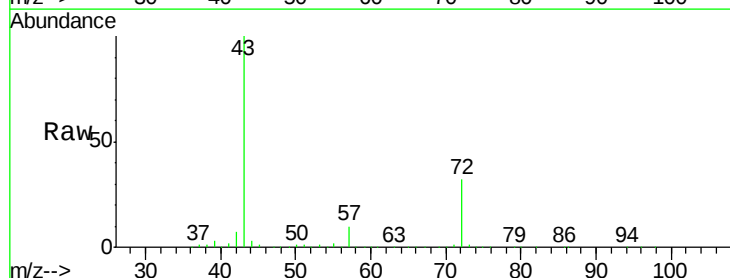
Manual Integrations
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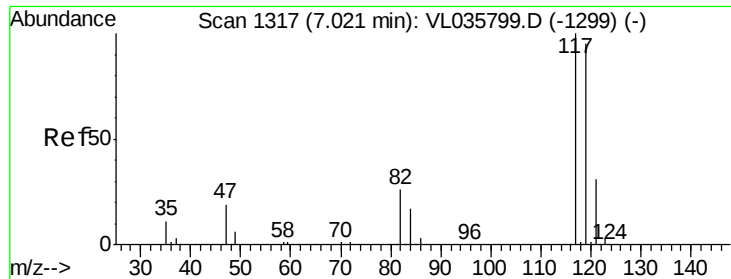
MMDadoda
 11/9/2020 1:38:32 PM



#34
 2-Butanone
 Concen: 10.934 ppbv
 RT: 5.22 min Scan# 756
 Delta R.T. -0.03 min
 Lab File: VL035858.D
 Acq: 5 Nov 2020 11:42

Tgt Ion	Ratio	Lower	Upper
43	100		
72	32.4	26.5	39.7





#35

Carbon Tetrachloride

Concen: 10.789 ppbv

RT: 6.99 min Scan# 1308

Delta R.T. -0.03 min

Lab File: VL035858.D

Acq: 5 Nov 2020 11:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 2250869

Ion Ratio Lower Upper

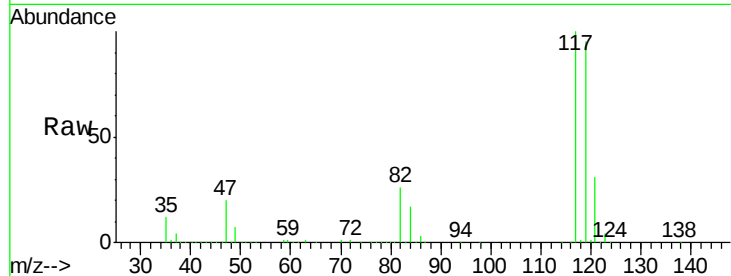
117 100

119 94.7 75.6 113.4

121 31.4 25.1 37.7

Manual Integrations
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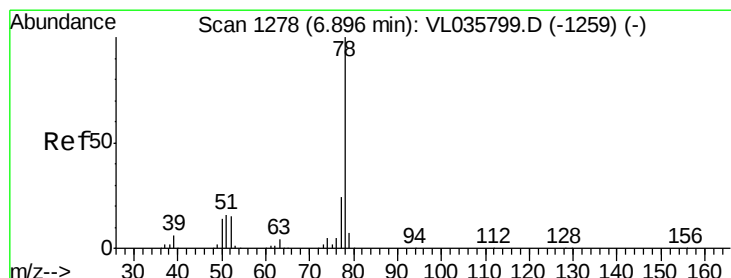
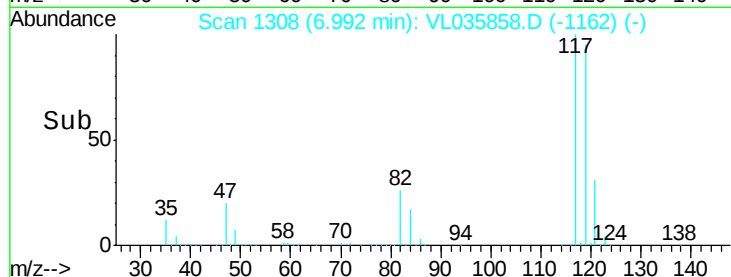
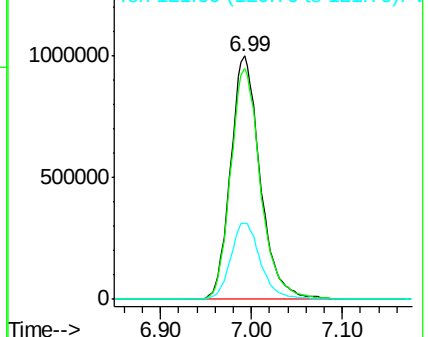
MMDadoda
11/9/2020 1:38:32 PM



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: 10.059 ppbv

RT: 6.87 min Scan# 1269

Delta R.T. -0.03 min

Lab File: VL035858.D

Acq: 5 Nov 2020 11:42

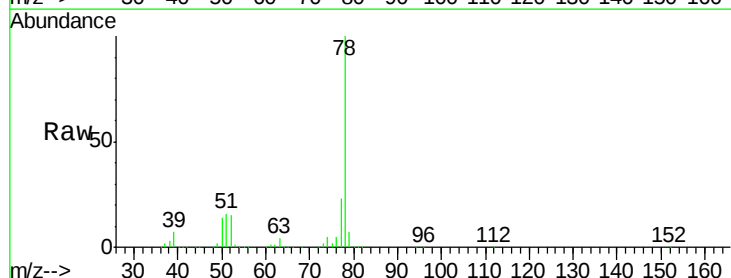
Tgt Ion: 78 Resp: 2920135

Ion Ratio Lower Upper

78 100

77 22.9 19.3 28.9

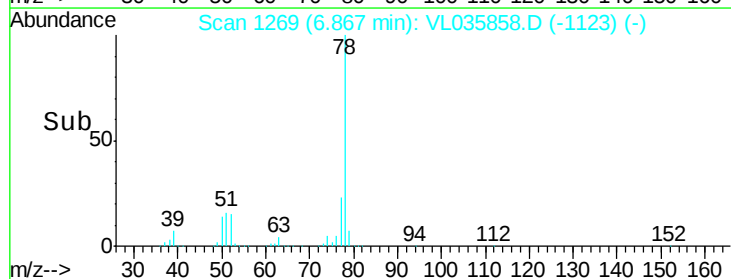
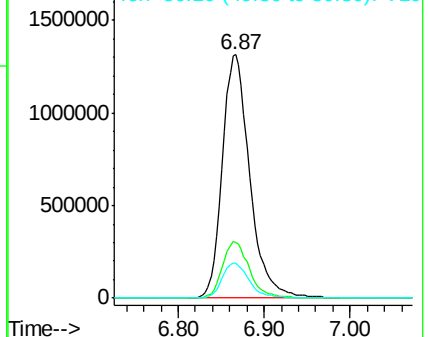
50 14.4 11.4 17.2

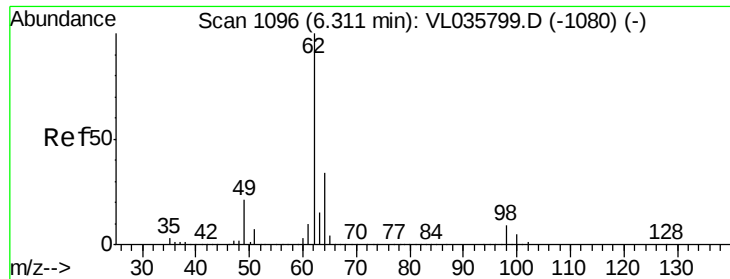


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





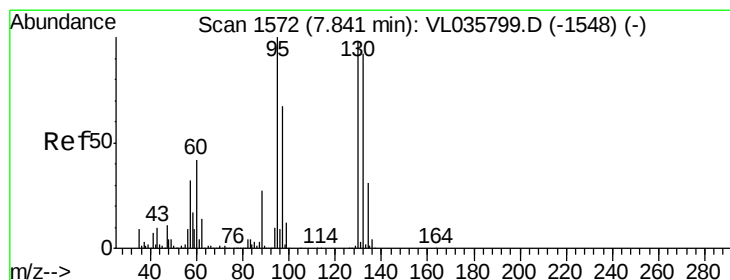
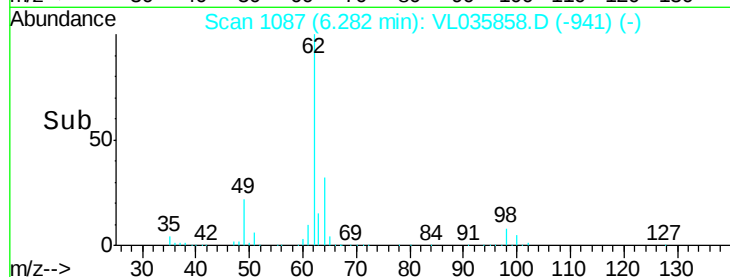
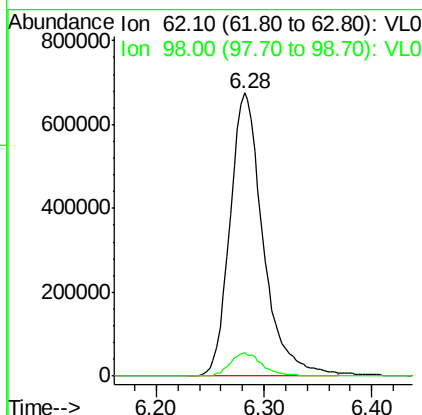
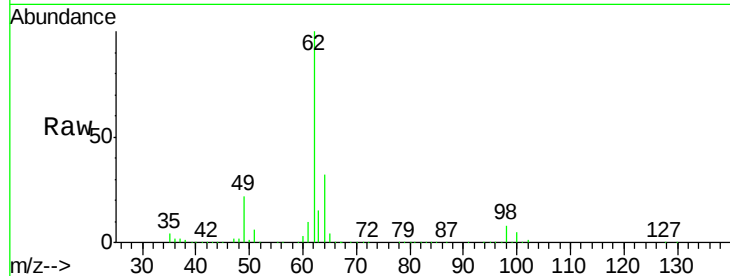
#37
 1,2-Dichloroethane
 Concen: 10.999 ppbv
 RT: 6.28 min Scan# 1087
 Delta R.T. -0.03 min
 Lab File: VL035858.D
 Acq: 5 Nov 2020 11:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 62 Resp: 1446567
 Ion Ratio Lower Upper
 62 100
 98 8.3 6.9 10.3

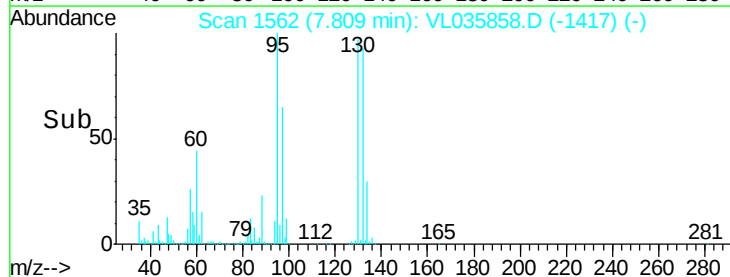
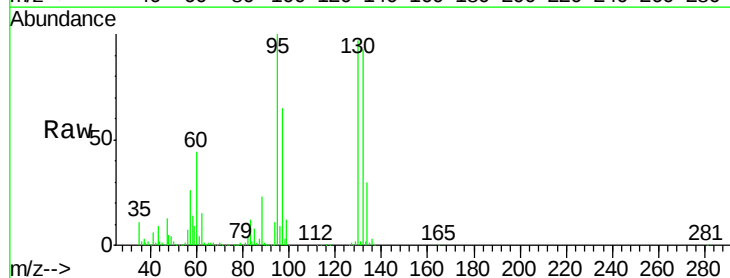
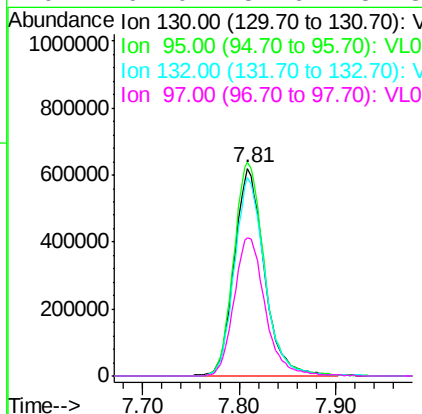
Manual Integrations
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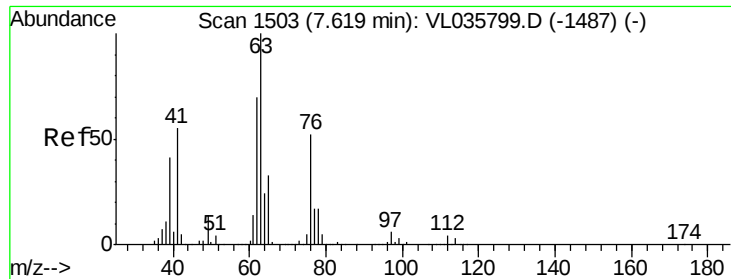
MMDadoda
 11/9/2020 1:38:32 PM



#38
 Trichloroethene
 Concen: 9.404 ppbv
 RT: 7.81 min Scan# 1562
 Delta R.T. -0.03 min
 Lab File: VL035858.D
 Acq: 5 Nov 2020 11:42

Tgt Ion:130 Resp: 1333499
 Ion Ratio Lower Upper
 130 100
 95 103.1 81.6 122.4
 132 95.8 75.1 112.7
 97 67.0 54.6 81.8





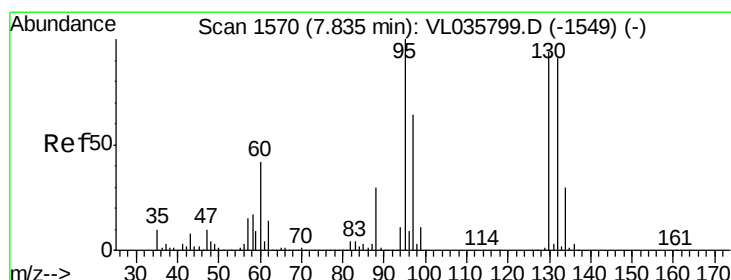
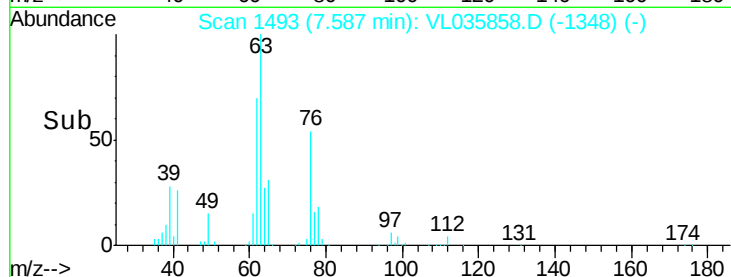
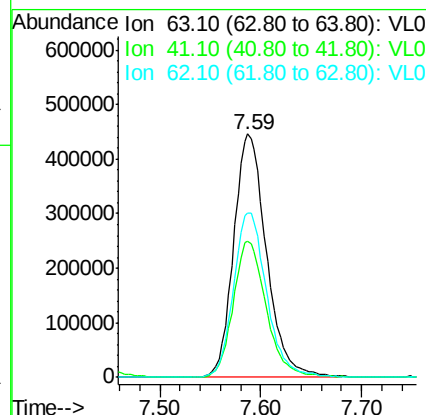
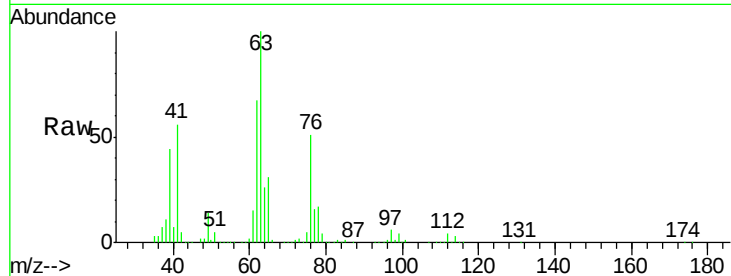
#39
 1,2-Dichloropropane
 Concen: 10.333 ppbv
 RT: 7.59 min Scan# 1493
 Delta R.T. -0.03 min
 Lab File: VL035858.D
 Acq: 5 Nov 2020 11:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
63	100		
41	55.9	43.8	65.6
62	67.3	56.2	84.2

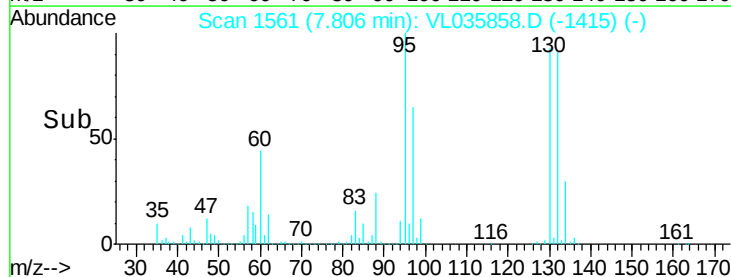
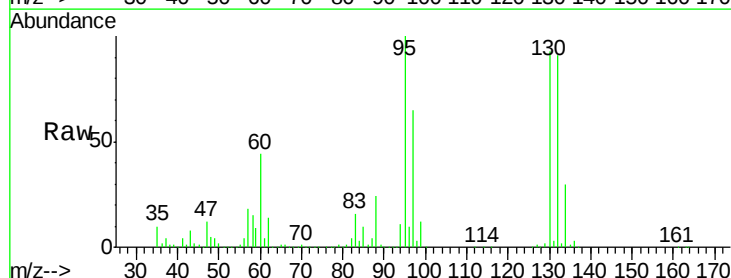
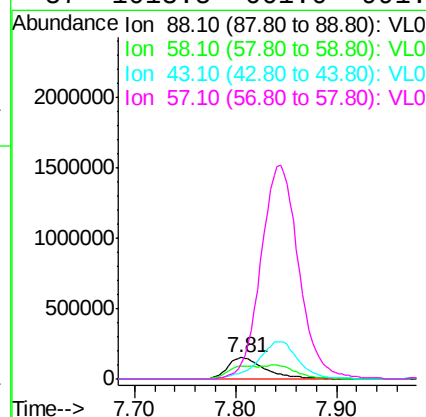
Manual Integrations
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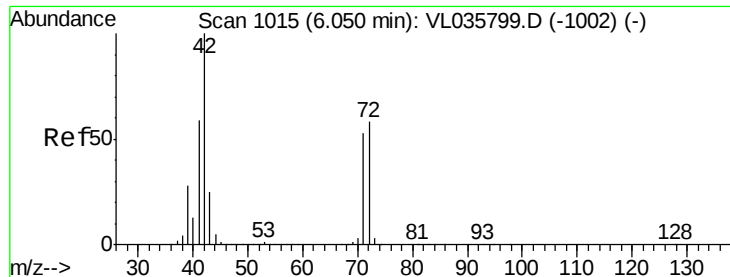
MMDadoda
 11/9/2020 1:38:32 PM



#40
 1,4-Dioxane
 Concen: 8.445 ppbv
 RT: 7.81 min Scan# 1561
 Delta R.T. -0.03 min
 Lab File: VL035858.D
 Acq: 5 Nov 2020 11:42

Tgt Ion	Ratio	Lower	Upper
88	100		
58	108.0	76.2	114.2
43	189.0	123.1	184.7#
57	1018.5	661.0	991.4#





#41

Tetrahydrofuran

Concen: 11.315 ppbv

RT: 6.02 min Scan# 1007

Delta R.T. -0.03 min

Lab File: VL035858.D

Acq: 5 Nov 2020 11:42

Instrument :

MSVOA_L

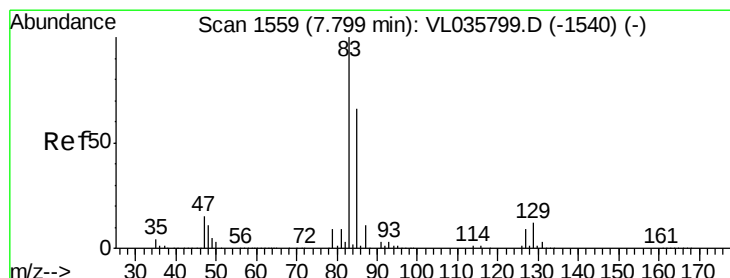
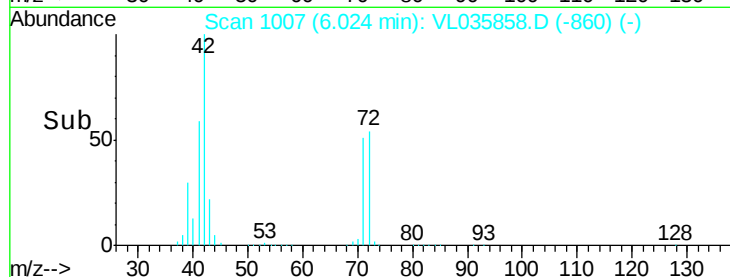
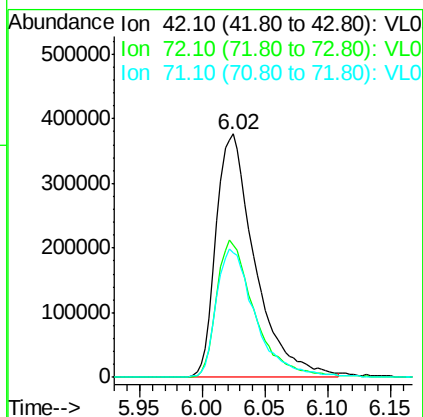
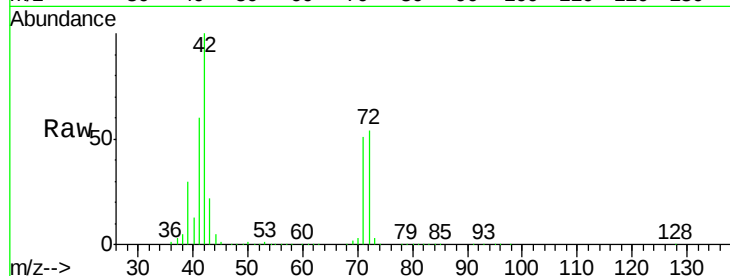
ClientSampleId :

VSTDCCC010

Tot Ion:	42	Resp:	814649
Ion Ratio		Lower	Upper
42	100		
72	55.6	45.4	68.0
71	53.0	43.4	65.2

Manual Integrations
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11/9/2020 1:38:32 PM



#42

Bromodichloromethane

Concen: 10.568 ppbv

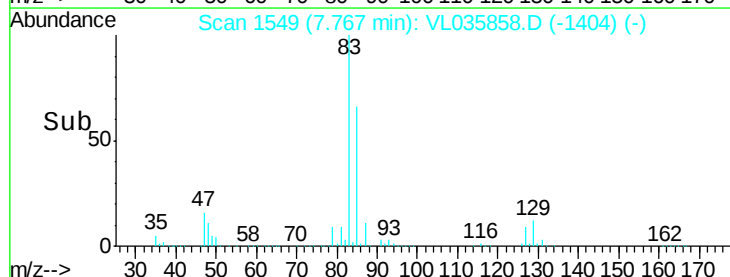
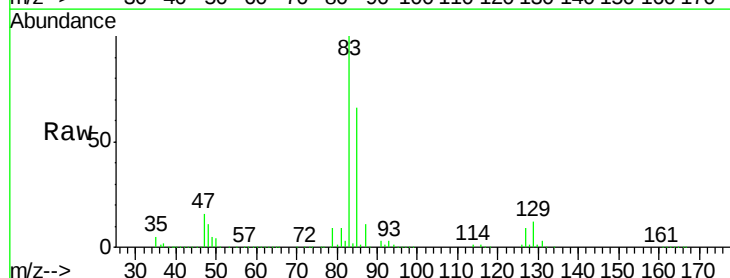
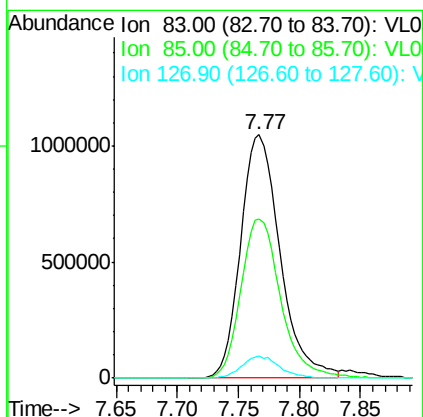
RT: 7.77 min Scan# 1549

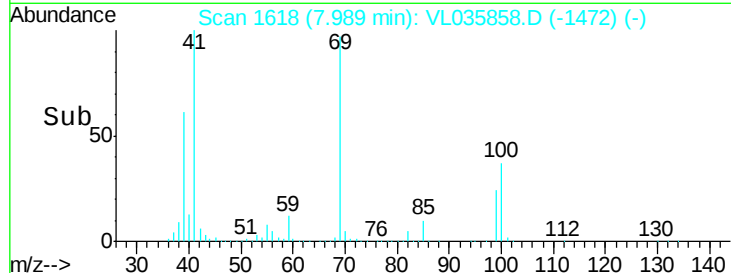
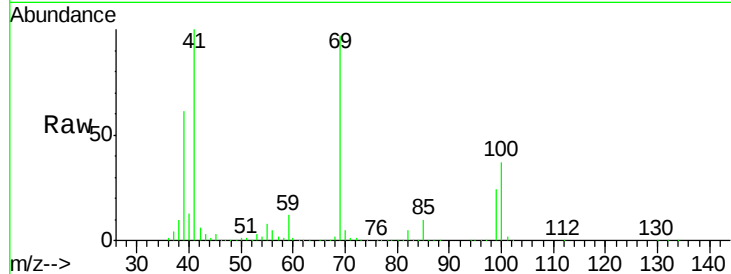
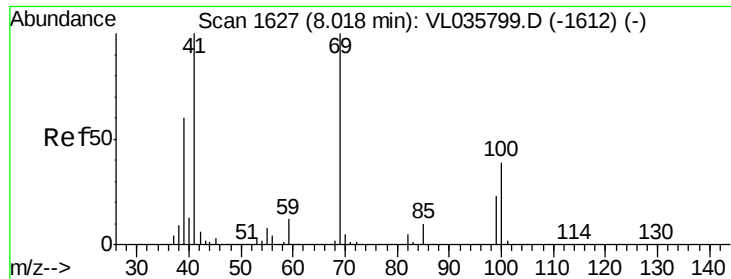
Delta R.T. -0.03 min

Lab File: VL035858.D

Acq: 5 Nov 2020 11:42

Tgt Ion:	83	Resp:	2345150
Ion Ratio		Lower	Upper
83	100		
85	65.6	53.1	79.7
127	9.2	7.3	10.9





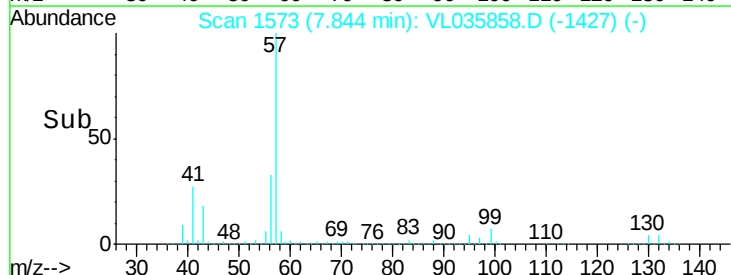
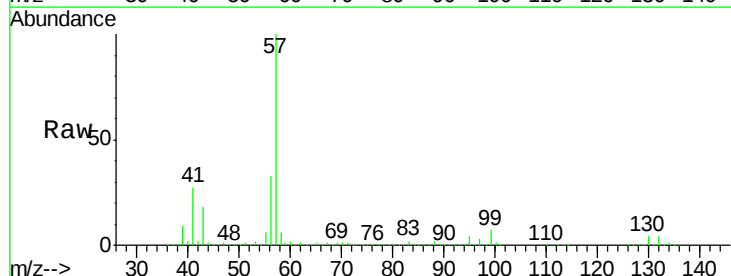
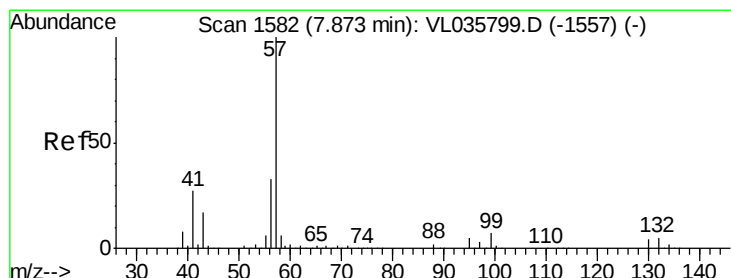
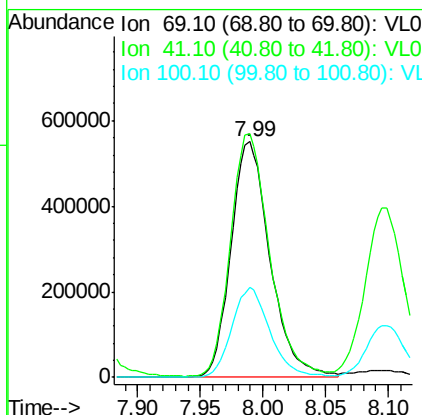
#43
Methvl Methacrylate
Concen: 10.762 ppbv
RT: 7.99 min Scan# 1618
Delta R.T. -0.03 min
Lab File: VL035858.D
Acq: 5 Nov 2020 11:42

Tot Ion: 69 Resp: 1191646
Ion Ratio Lower Upper
69 100
41 103.8 81.1 121.7
100 37.4 31.0 46.4

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

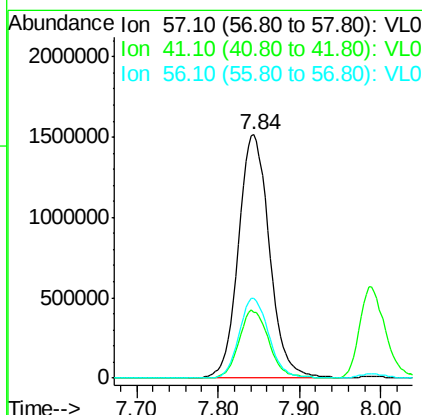
Manual Integrations
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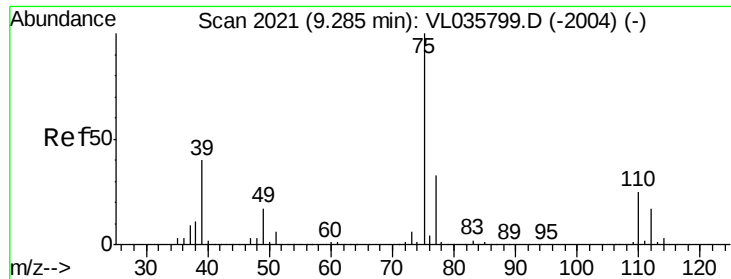
MMDadoda
11/9/2020 1:38:32 PM



#44
2,2,4-Trimethylpentane
Concen: 10.362 ppbv
RT: 7.84 min Scan# 1573
Delta R.T. -0.03 min
Lab File: VL035858.D
Acq: 5 Nov 2020 11:42

Tgt Ion: 57 Resp: 3980516
Ion Ratio Lower Upper
57 100
41 27.0 21.0 31.4
56 31.6 25.4 38.0





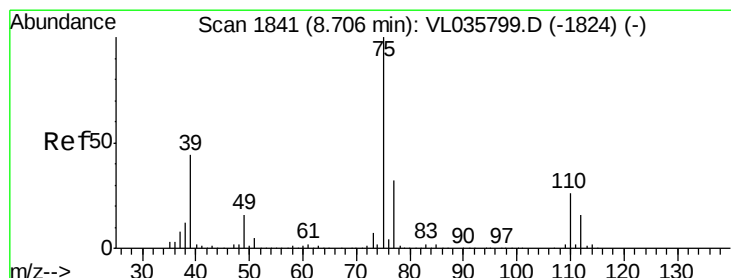
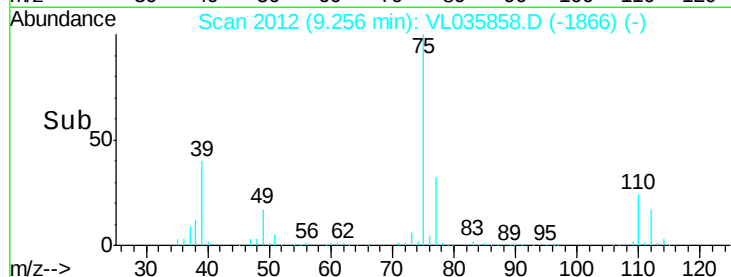
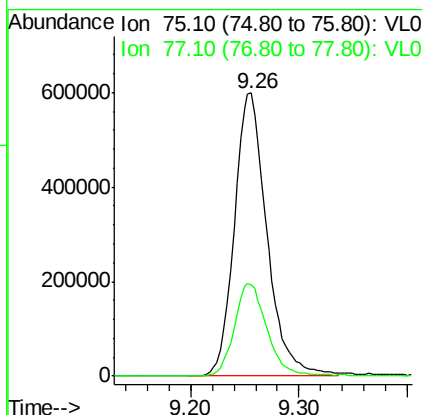
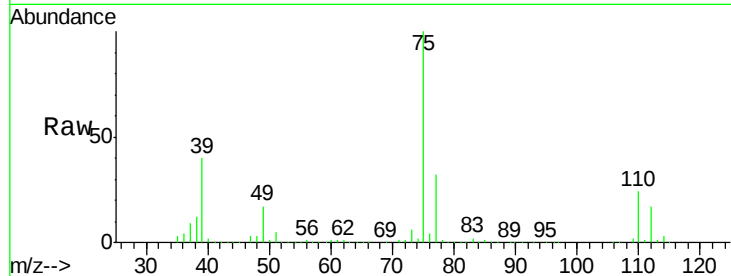
#45
 t-1,3-Dichloropropene
 Concen: 10.725 ppbv
 RT: 9.26 min Scan# 2012
 Delta R.T. -0.03 min
 Lab File: VL035858.D
 Acq: 5 Nov 2020 11:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 75 Resp: 1258881
 Ion Ratio Lower Upper
 75 100
 77 32.4 26.4 39.6

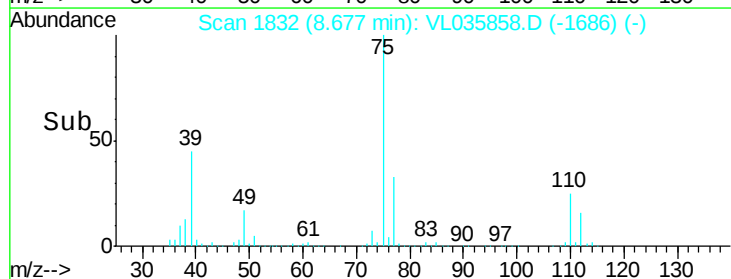
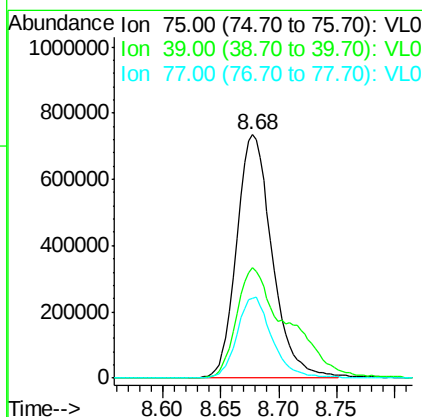
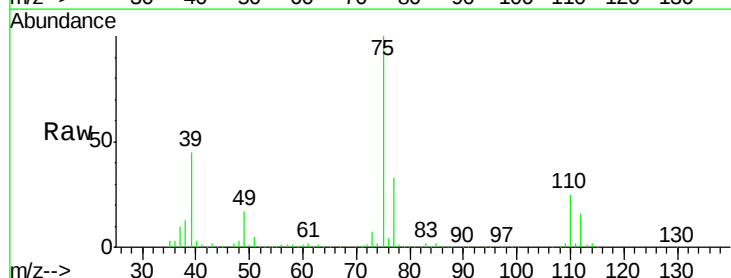
Manual Integrations
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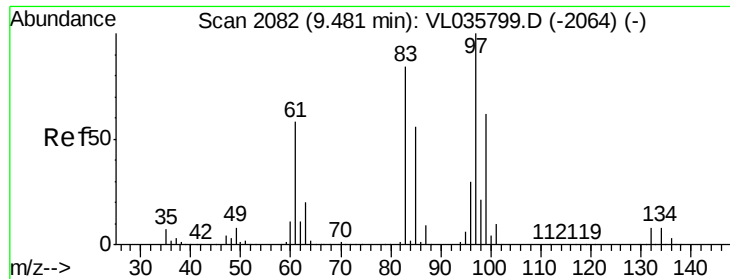
MMDadoda
 11/9/2020 1:38:32 PM



#46
 cis-1,3-Dichloropropene
 Concen: 10.521 ppbv
 RT: 8.68 min Scan# 1832
 Delta R.T. -0.03 min
 Lab File: VL035858.D
 Acq: 5 Nov 2020 11:42

Tgt Ion: 75 Resp: 1564036
 Ion Ratio Lower Upper
 75 100
 39 45.1 35.1 52.7
 77 33.0 25.7 38.5





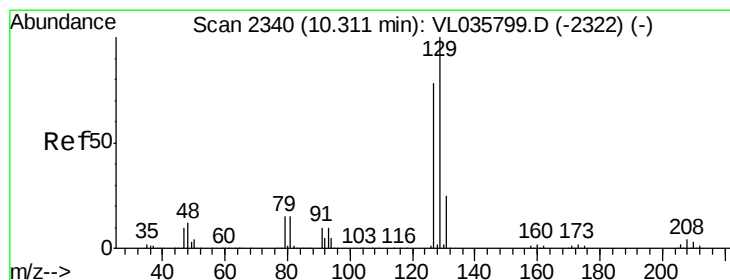
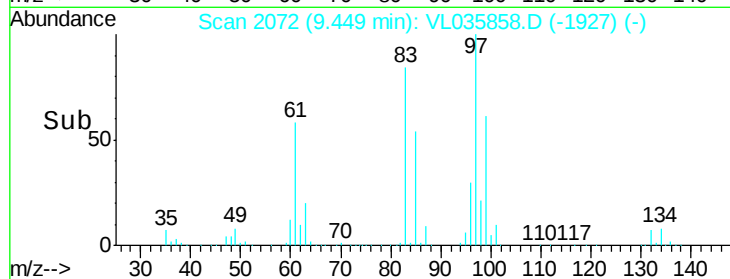
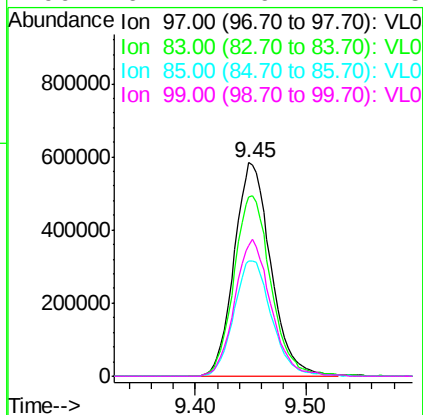
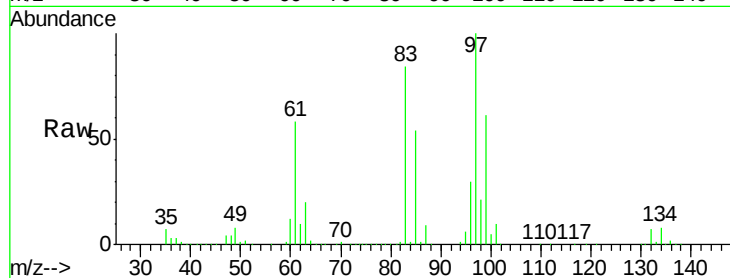
#47
 1,1,2-Trichloroethane
 Concen: 10.103 ppbv
 RT: 9.45 min Scan# 2072
 Delta R.T. -0.03 min
 Lab File: VL035858.D
 Acq: 5 Nov 2020 11:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 97 Resp: 1345405
 Ion Ratio Lower Upper
 97 100
 83 84.0 67.1 100.7
 85 54.2 44.7 67.1
 99 61.4 49.7 74.5

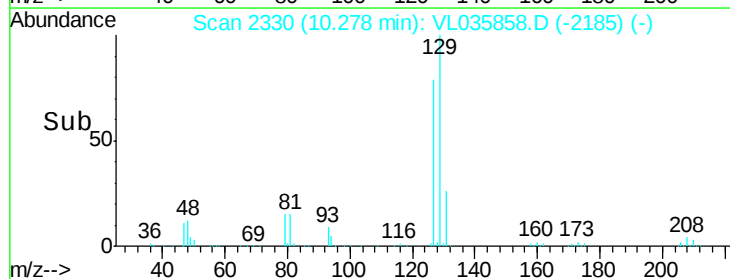
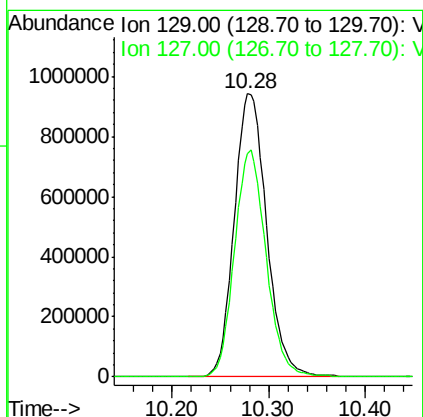
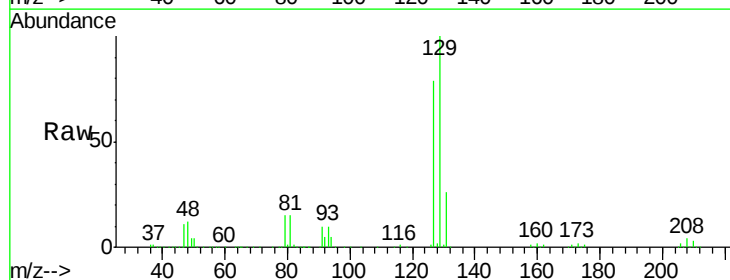
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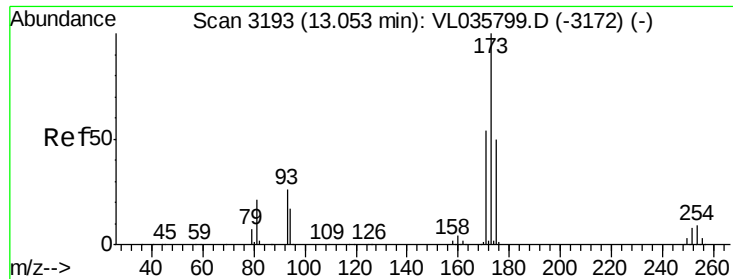
MMDadoda
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#48
 Dibromochloromethane
 Concen: 10.796 ppbv
 RT: 10.28 min Scan# 2330
 Delta R.T. -0.03 min
 Lab File: VL035858.D
 Acq: 5 Nov 2020 11:42

Tgt Ion: 129 Resp: 2196404
 Ion Ratio Lower Upper
 129 100
 127 78.5 39.2 117.6





#49

Bromoform

Concen: 10.804 ppbv

RT: 13.02 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VL035858.D

Acq: 5 Nov 2020 11:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:173 Resp: 1854751

Ion Ratio Lower Upper

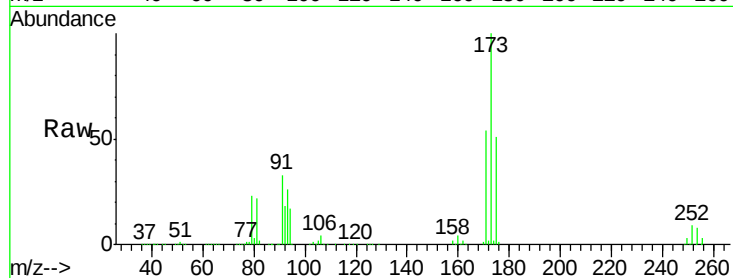
173 100

175 49.7 40.1 60.1

171 52.9 42.6 63.8

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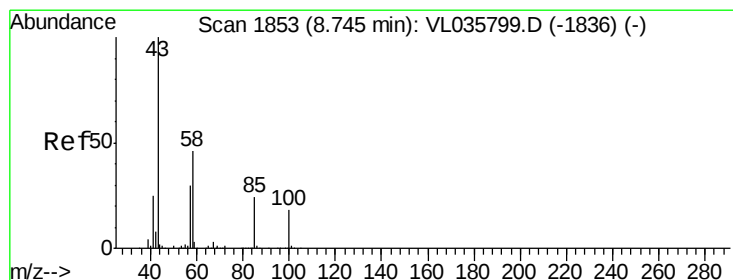
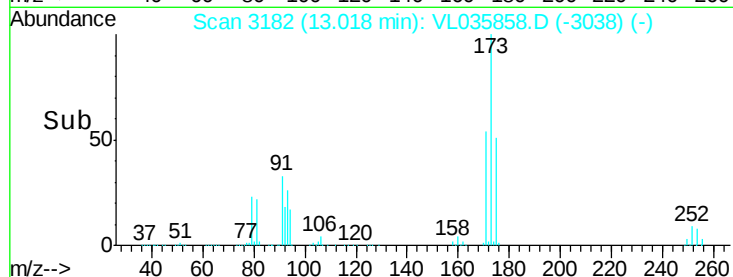
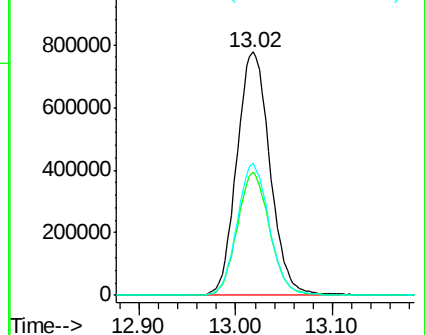
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Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 11.179 ppbv

RT: 8.72 min Scan# 1844

Delta R.T. -0.03 min

Lab File: VL035858.D

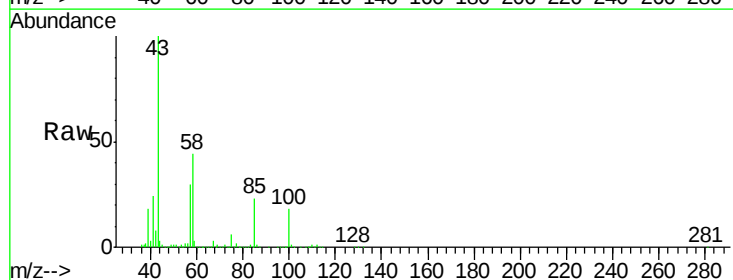
Acq: 5 Nov 2020 11:42

Tgt Ion: 43 Resp: 2166351

Ion Ratio Lower Upper

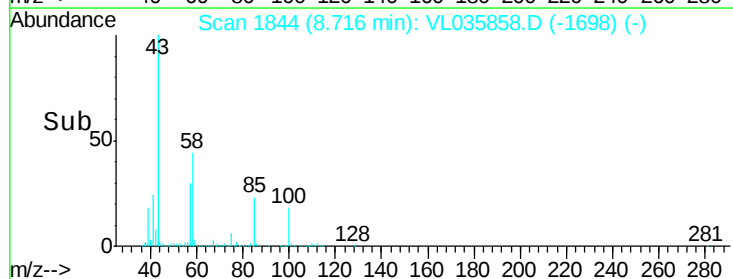
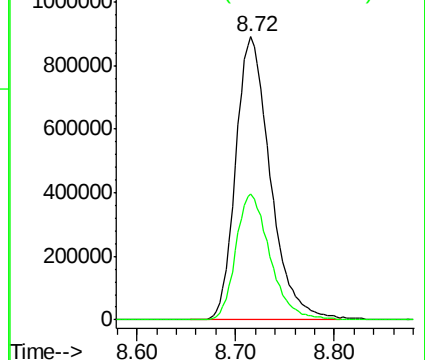
43 100

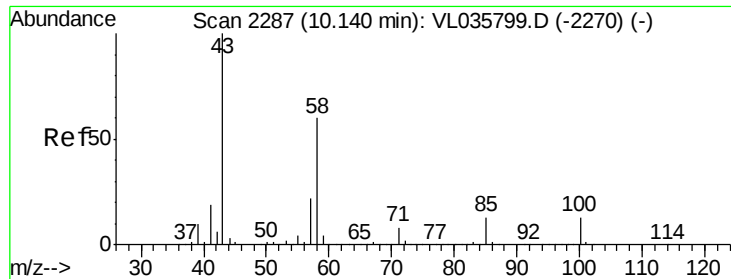
58 44.4 36.0 54.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 11.377 ppbv

RT: 10.11 min Scan# 2278

Delta R.T. -0.03 min

Lab File: VL035858.D

Acq: 5 Nov 2020 11:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1771050

Ion Ratio Lower Upper

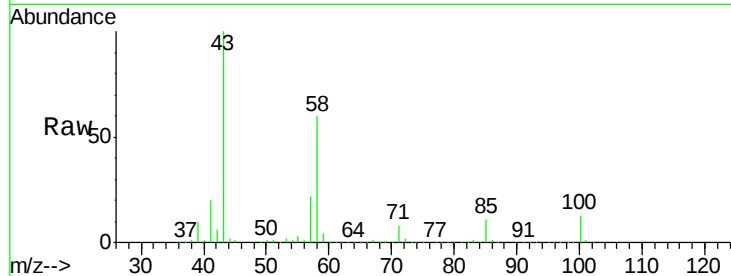
43 100

58 59.4 48.3 72.5

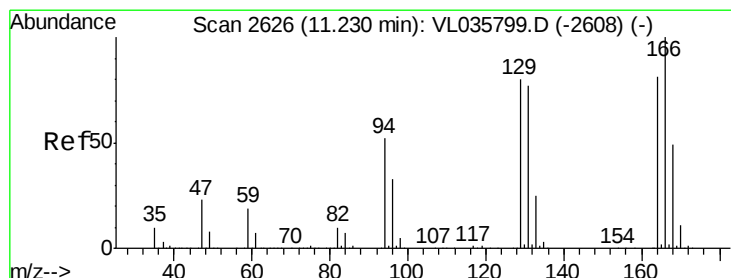
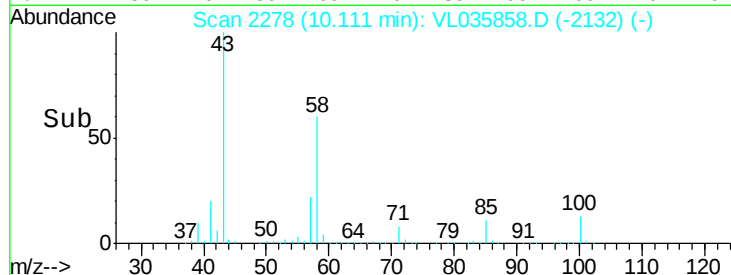
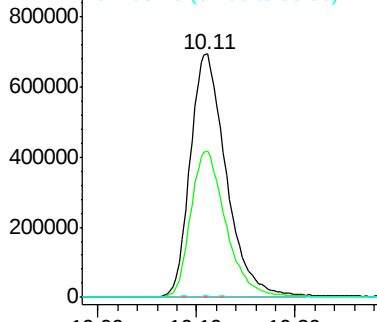
98 0.8 0.6 0.8

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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 9.231 ppbv

RT: 11.20 min Scan# 2616

Delta R.T. -0.03 min

Lab File: VL035858.D

Acq: 5 Nov 2020 11:42

Tgt Ion:164 Resp: 1269589

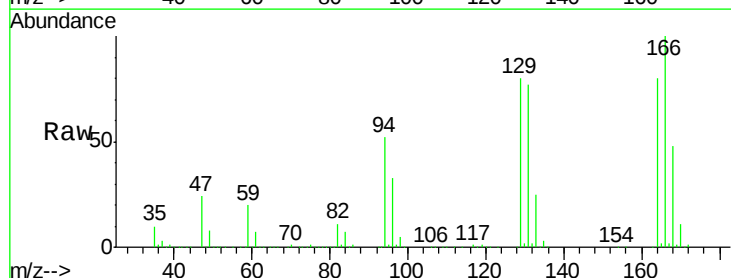
Ion Ratio Lower Upper

164 100

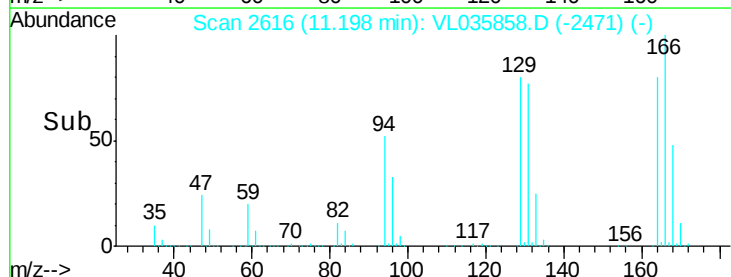
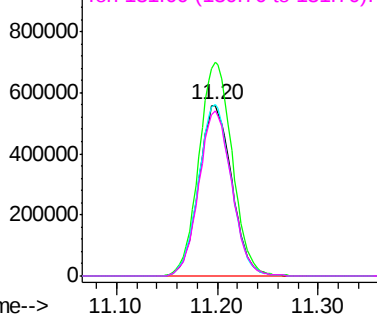
166 125.0 99.3 148.9

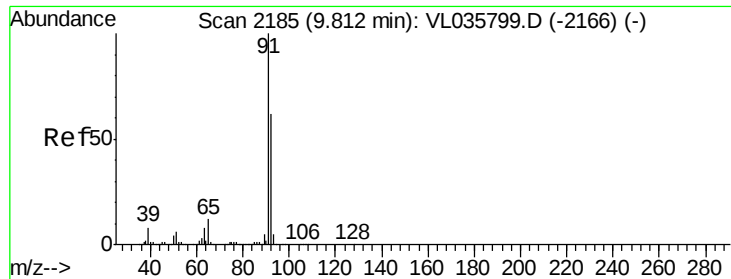
129 100.0 79.3 118.9

131 96.7 76.5 114.7



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 10.056 ppbv

RT: 9.78 min Scan# 2175

Delta R.T. -0.03 min

Lab File: VL035858.D

Acq: 5 Nov 2020 11:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 3522499

Ion Ratio Lower Upper

91 100

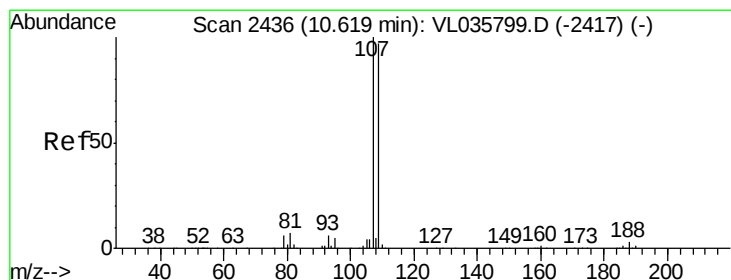
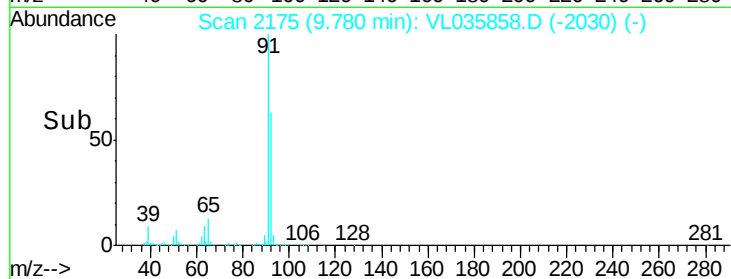
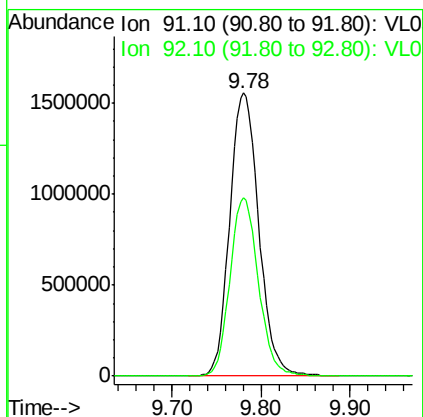
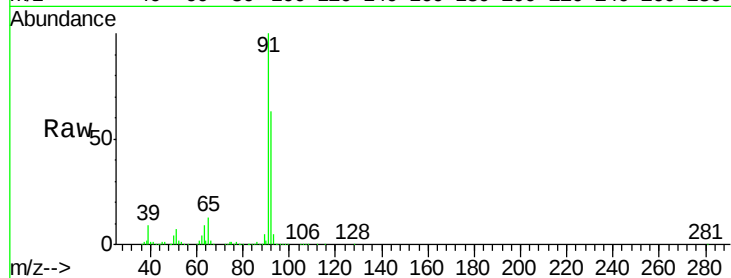
92 61.8 49.8 74.6

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 10.117 ppbv

RT: 10.59 min Scan# 2426

Delta R.T. -0.03 min

Lab File: VL035858.D

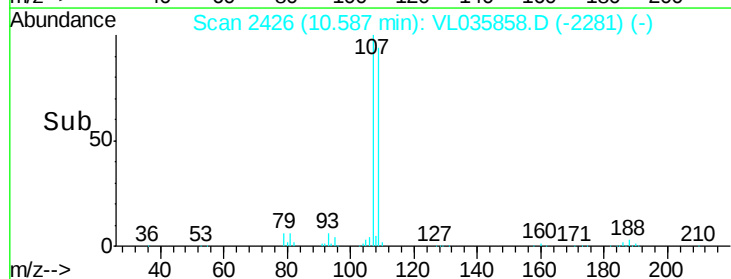
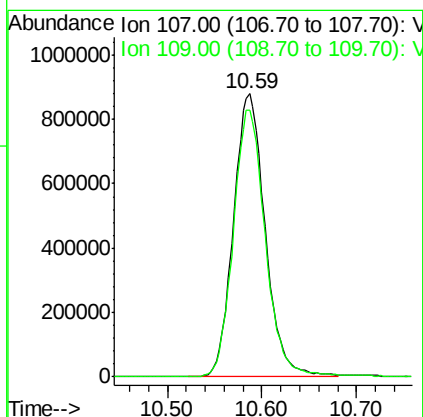
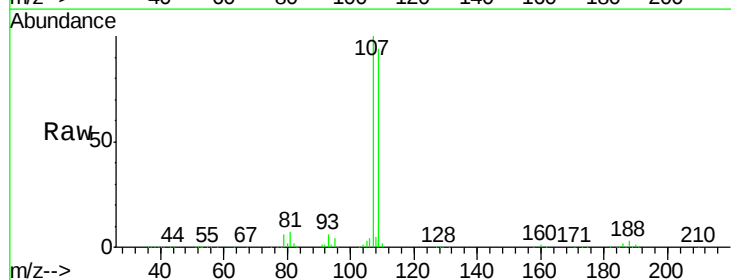
Acq: 5 Nov 2020 11:42

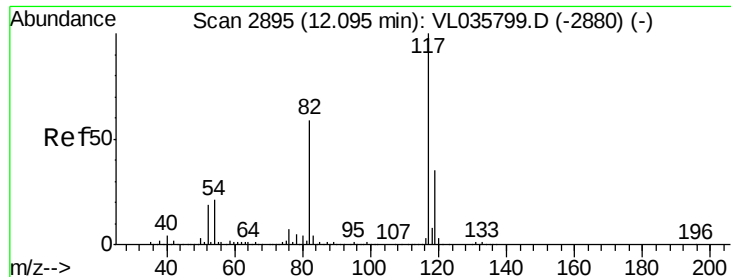
Tgt Ion: 107 Resp: 2049095

Ion Ratio Lower Upper

107 100

109 94.4 77.2 115.8





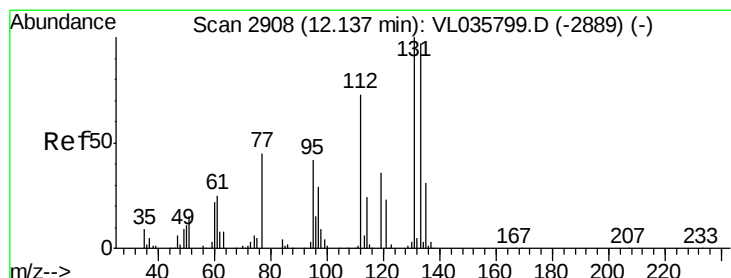
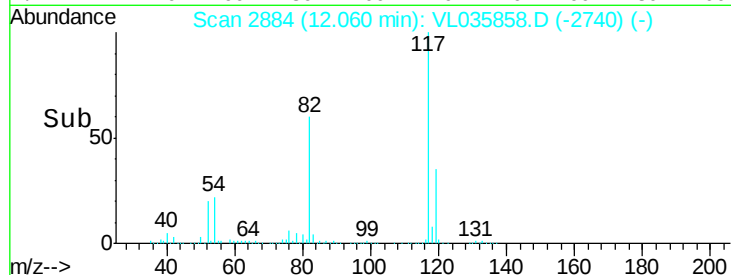
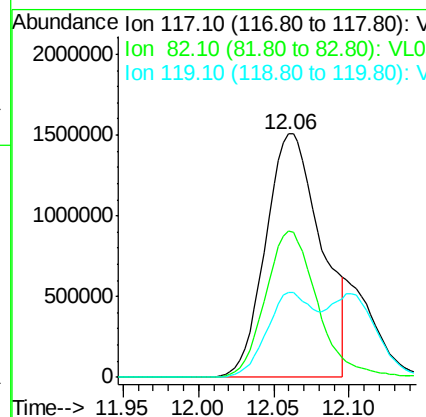
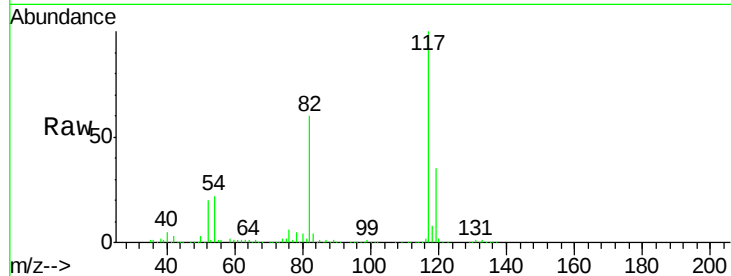
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.06 min Scan# 2884
Delta R.T. -0.04 min
Lab File: VL035858.D
Acq: 5 Nov 2020 11:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:117 Resp: 3836203
Ion Ratio Lower Upper
117 100
82 57.1 50.6 76.0
119 33.2 52.6 78.8#

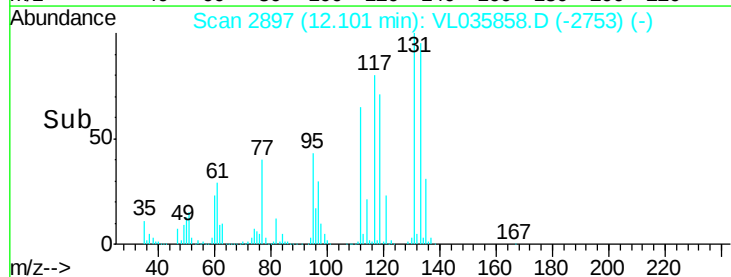
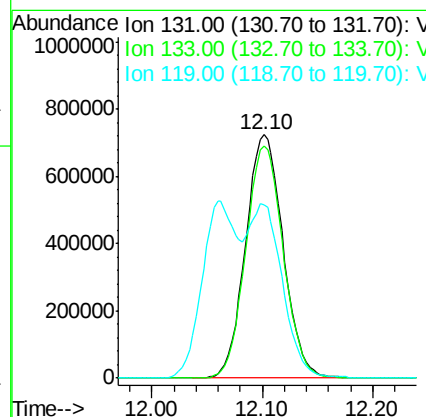
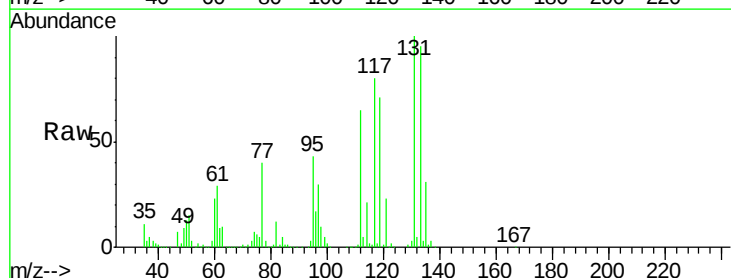
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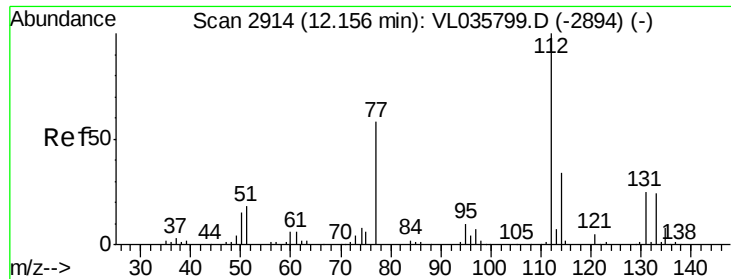
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.902 ppbv
RT: 12.10 min Scan# 2897
Delta R.T. -0.04 min
Lab File: VL035858.D
Acq: 5 Nov 2020 11:42

Tgt Ion:131 Resp: 1704935
Ion Ratio Lower Upper
131 100
133 95.7 76.8 115.2
119 61.5 47.4 71.0





#57

Chlorobenzene

Concen: 9.267 ppbv

RT: 12.12 min Scan# 2903

Delta R.T. -0.04 min

Lab File: VL035858.D

Acq: 5 Nov 2020 11:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:112 Resp: 2826700

Ion Ratio Lower Upper

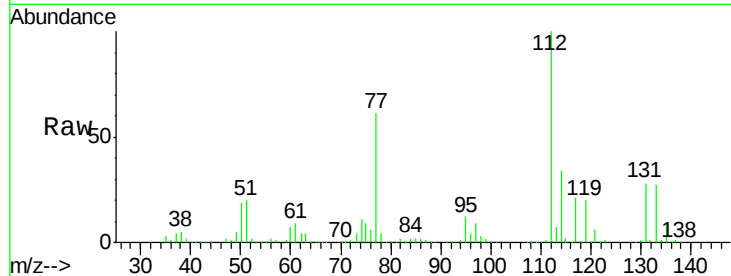
112 100

77 60.9 47.5 71.3

114 33.7 30.3 37.1

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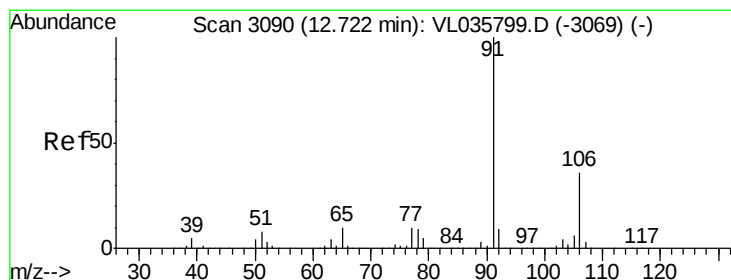
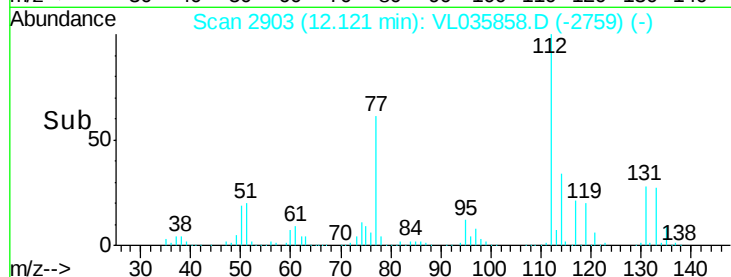
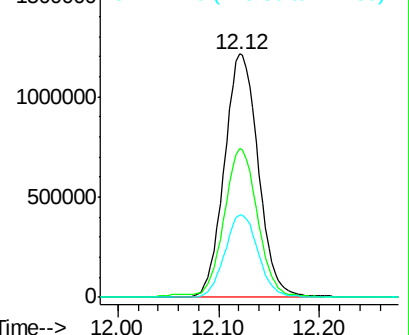
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 9.732 ppbv

RT: 12.69 min Scan# 3079

Delta R.T. -0.04 min

Lab File: VL035858.D

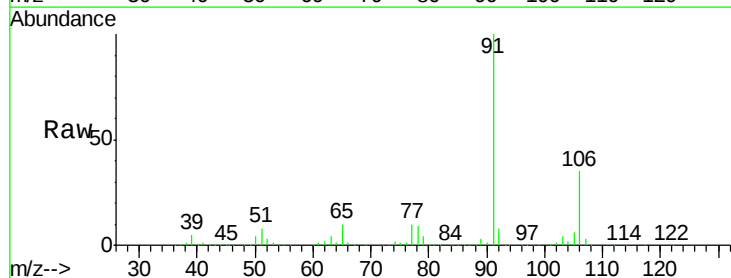
Acq: 5 Nov 2020 11:42

Tgt Ion: 91 Resp: 4546985

Ion Ratio Lower Upper

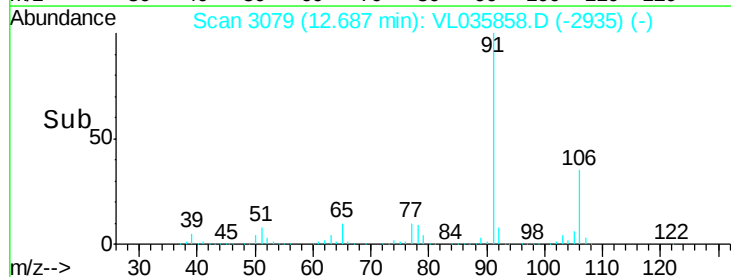
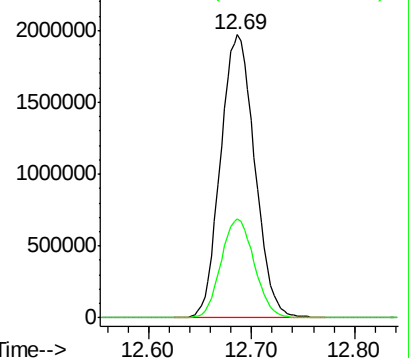
91 100

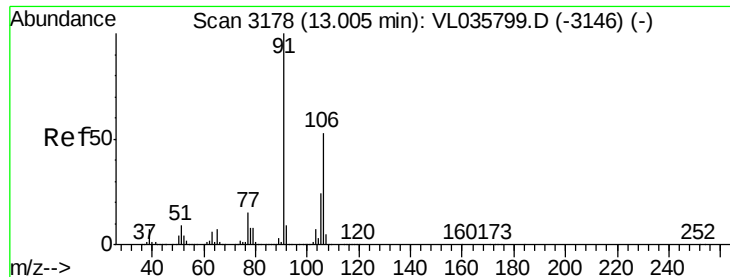
106 35.0 28.6 43.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





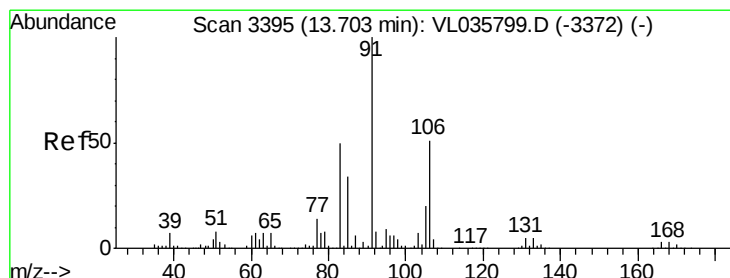
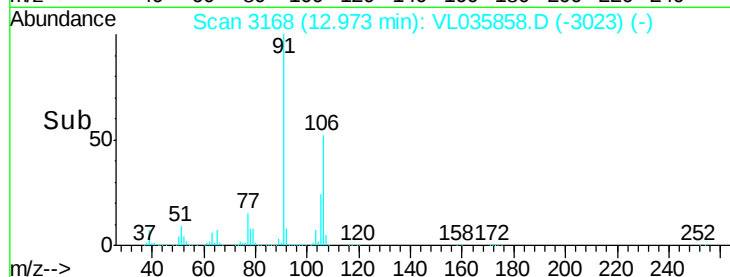
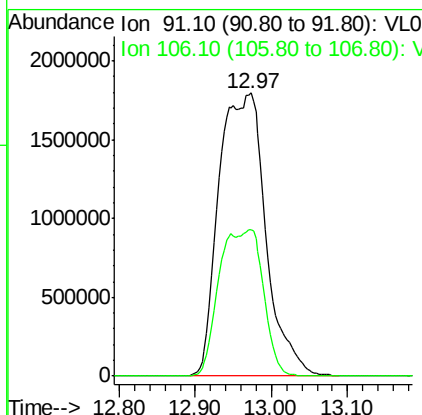
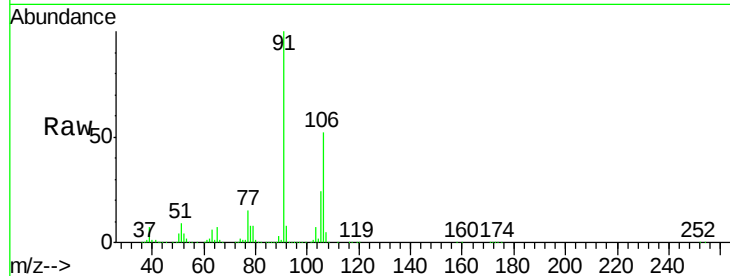
#59
m/p-Xylene
Concen: 19.476 ppbv m
RT: 12.97 min Scan# 3168
Delta R.T. -0.03 min
Lab File: VL035858.D
Acq: 5 Nov 2020 11:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 7698740
Ion Ratio Lower Upper
91 100
106 48.8 39.5 59.3

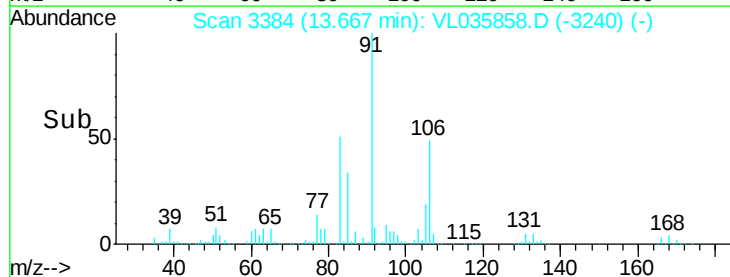
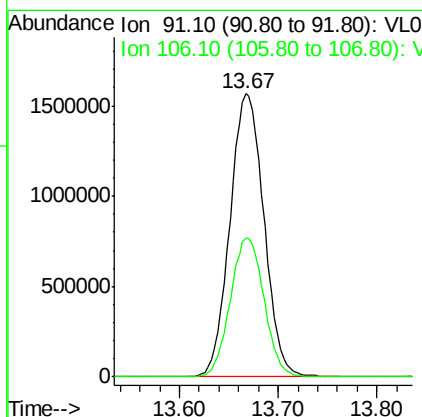
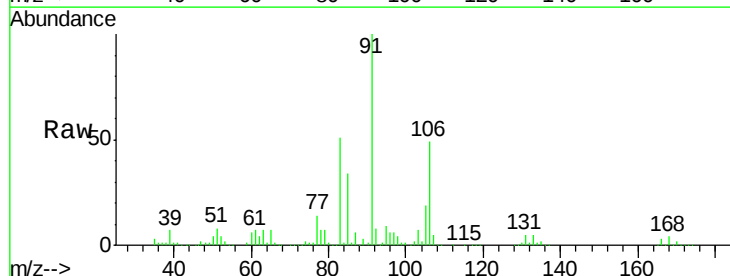
Manual Integrations
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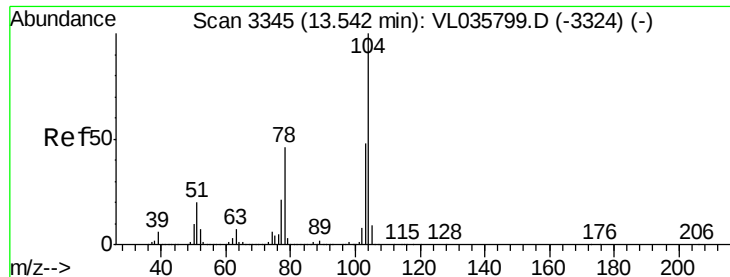
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#60
o-Xylene
Concen: 9.743 ppbv
RT: 13.67 min Scan# 3384
Delta R.T. -0.04 min
Lab File: VL035858.D
Acq: 5 Nov 2020 11:42

Tgt Ion: 91 Resp: 3746466
Ion Ratio Lower Upper
91 100
106 49.0 24.8 74.4





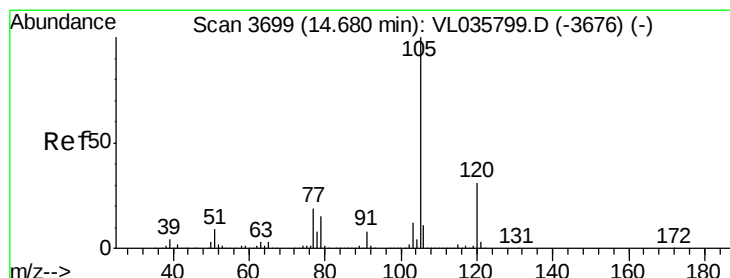
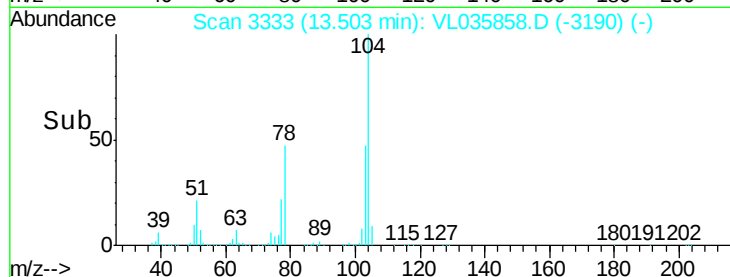
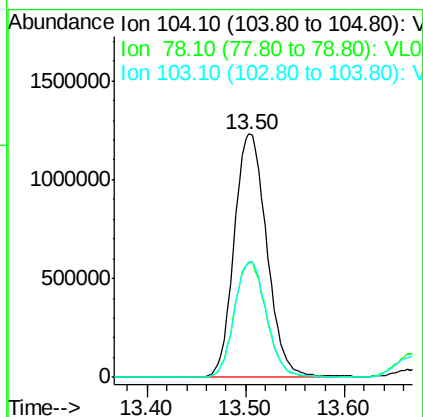
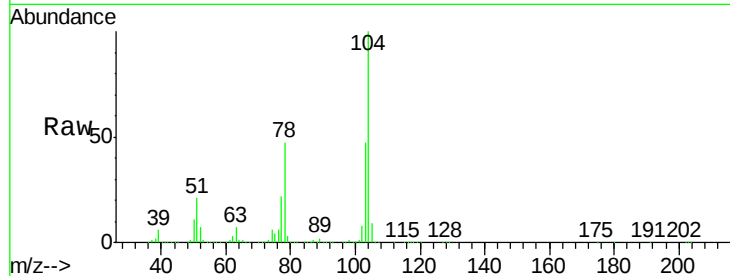
#61
Stvrene
Concen: 10.051 ppbv
RT: 13.50 min Scan# 3333
Delta R.T. -0.04 min
Lab File: VL035858.D
Acq: 5 Nov 2020 11:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
104	100		
78	46.7	37.1	55.7
103	47.4	37.9	56.9

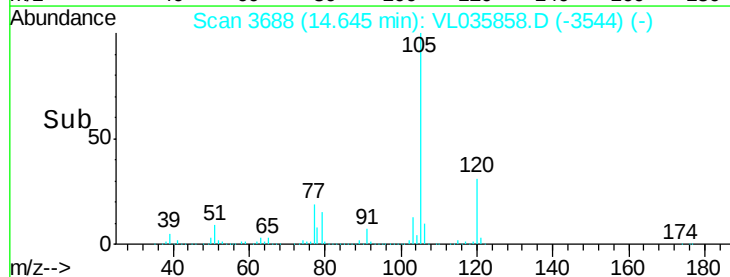
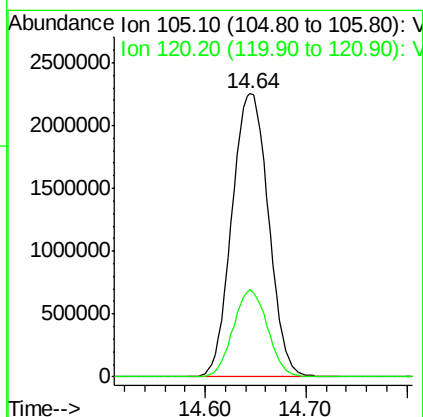
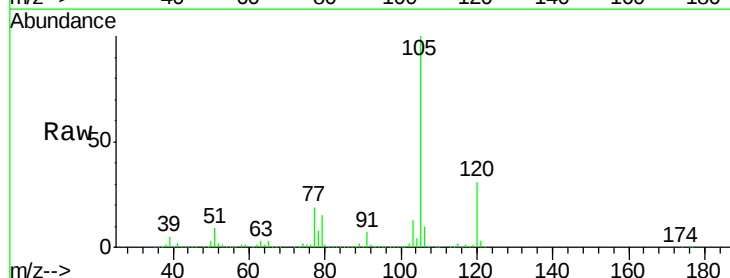
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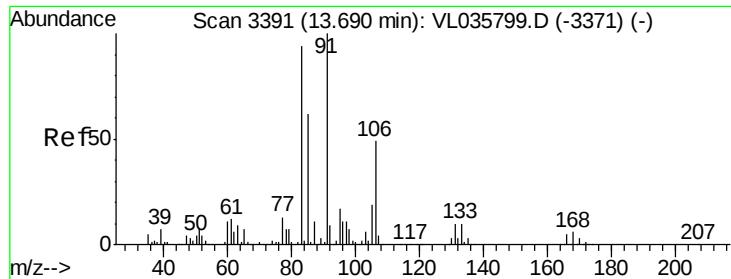
MMDadoda
11/9/2020 1:38:32 PM



#62
Isopropylbenzene
Concen: 9.389 ppbv
RT: 14.64 min Scan# 3688
Delta R.T. -0.04 min
Lab File: VL035858.D
Acq: 5 Nov 2020 11:42

Tgt Ion	Ratio	Lower	Upper
105	100		
120	29.0	23.5	35.3





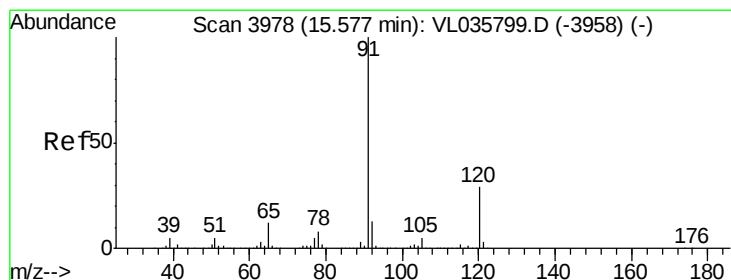
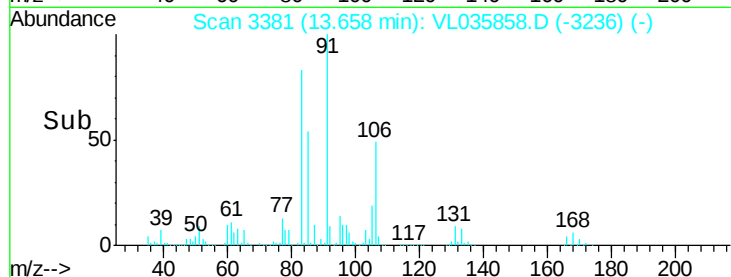
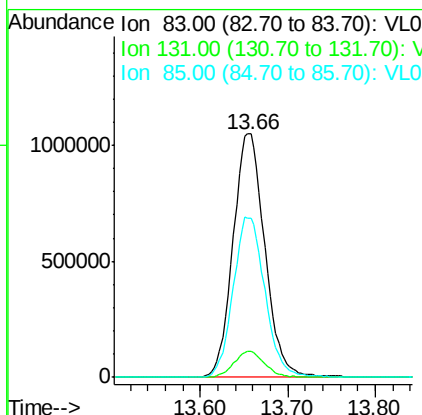
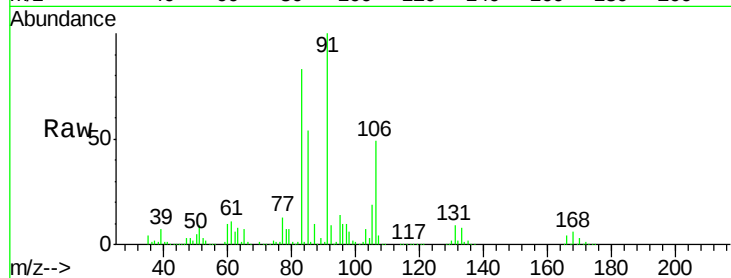
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.878 ppbv
 RT: 13.66 min Scan# 3381
 Delta R.T. -0.03 min
 Lab File: VL035858.D
 Acq: 5 Nov 2020 11:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 83 Resp: 2645307
 Ion Ratio Lower Upper
 83 100
 131 10.4 5.3 15.8
 85 66.1 33.5 100.4

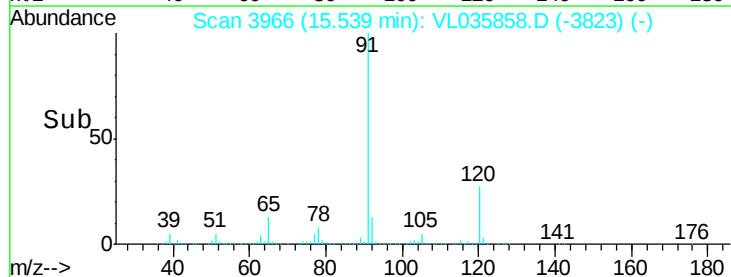
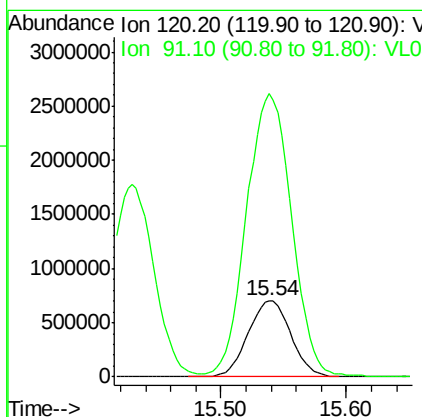
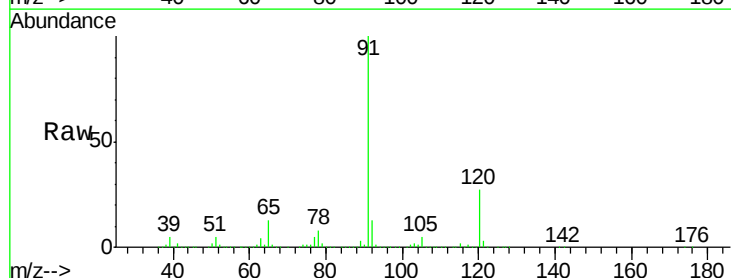
Manual Integrations
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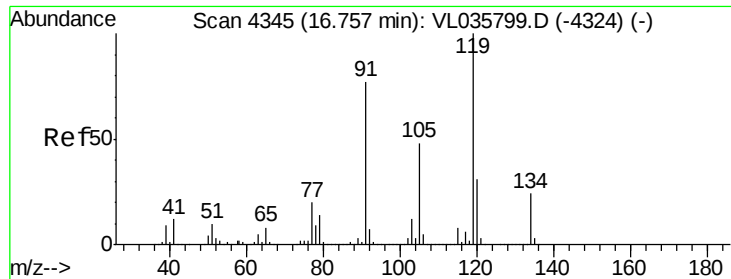
MMDadoda
 11/9/2020 1:38:32 PM



#64
 n-propylbenzene
 Concen: 9.483 ppbv
 RT: 15.54 min Scan# 3966
 Delta R.T. -0.04 min
 Lab File: VL035858.D
 Acq: 5 Nov 2020 11:42

Tgt Ion:120 Resp: 1656611
 Ion Ratio Lower Upper
 120 100
 91 395.5 311.1 466.7





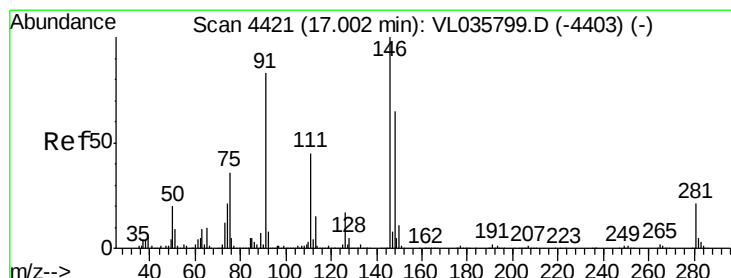
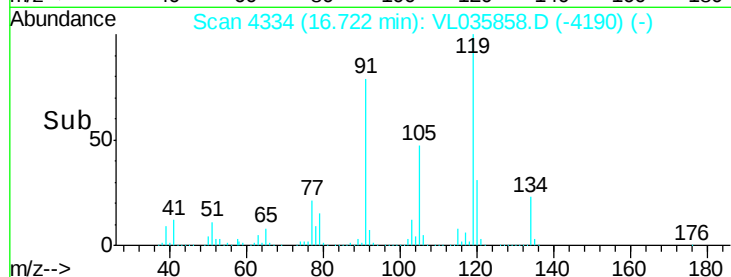
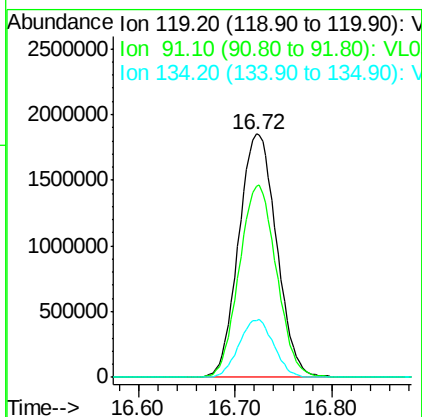
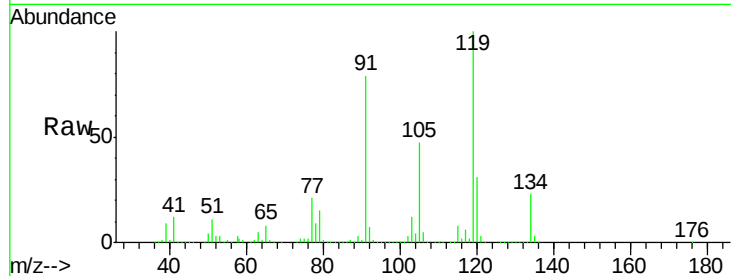
#65
tert-Butylbenzene
Concen: 9.142 ppbv
RT: 16.72 min Scan# 4334
Delta R.T. -0.04 min
Lab File: VL035858.D
Acq: 5 Nov 2020 11:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:119 Resp: 5029068
Ion Ratio Lower Upper
119 100
91 78.0 62.0 93.0
134 22.0 17.8 26.8

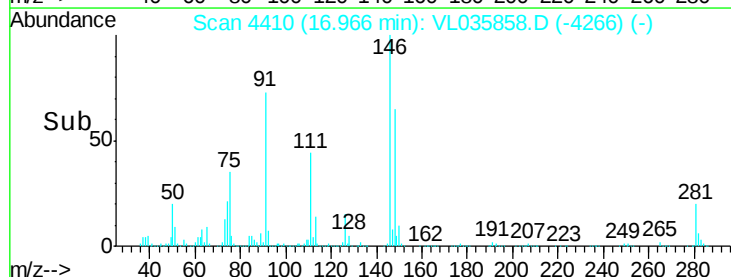
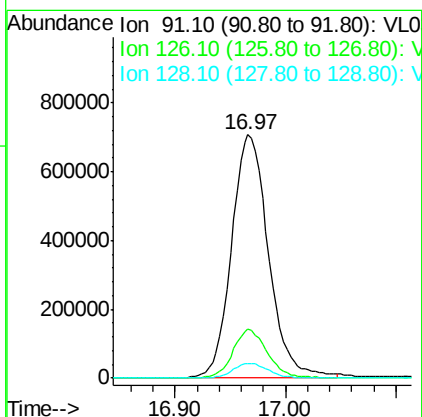
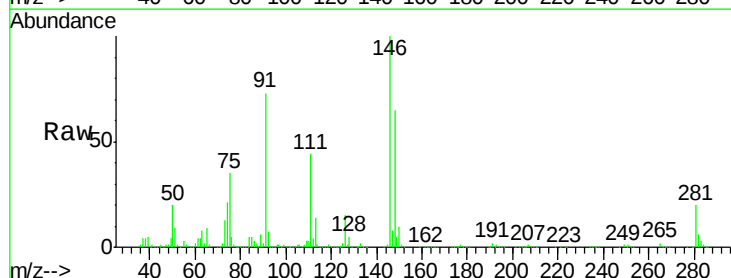
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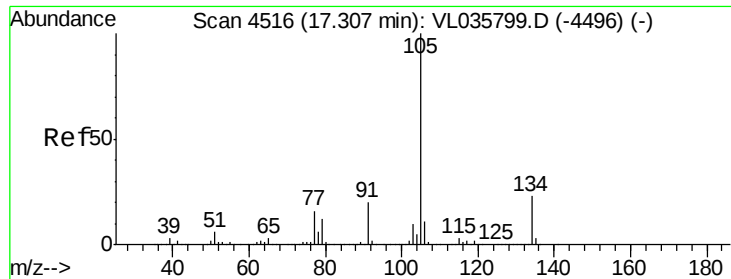
MMDadoda
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#66
Benzyl Chloride
Concen: 8.975 ppbv
RT: 16.97 min Scan# 4410
Delta R.T. -0.04 min
Lab File: VL035858.D
Acq: 5 Nov 2020 11:42

Tgt Ion: 91 Resp: 1632057
Ion Ratio Lower Upper
91 100
126 19.1 16.0 24.0
128 6.1 5.0 7.4





#67

sec-Butylbenzene

Concen: 9.169 ppbv

RT: 17.27 min Scan# 4505

Delta R.T. -0.04 min

Lab File: VL035858.D

Acq: 5 Nov 2020 11:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 105 Resp: 6797386

Ion Ratio Lower Upper

105 100

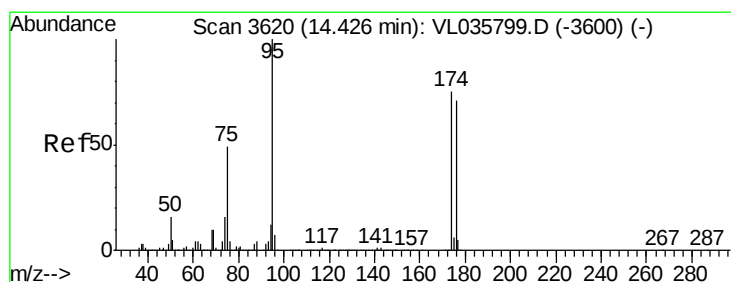
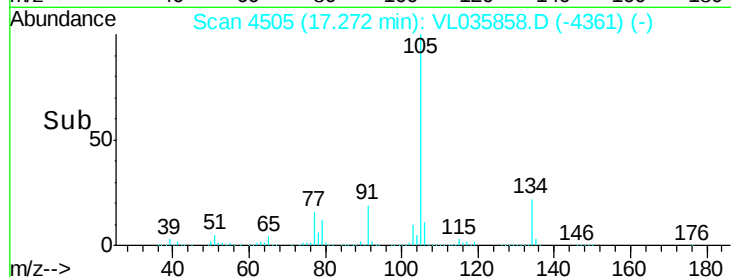
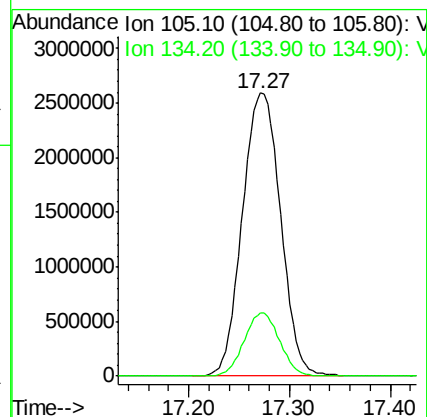
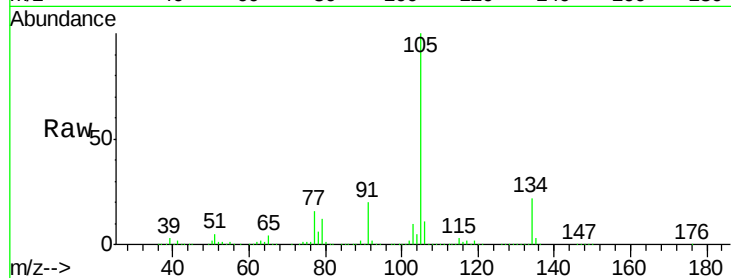
134 20.8 17.0 25.6

Manual Integrations

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.832 ppbv

RT: 14.39 min Scan# 3609

Delta R.T. -0.04 min

Lab File: VL035858.D

Acq: 5 Nov 2020 11:42

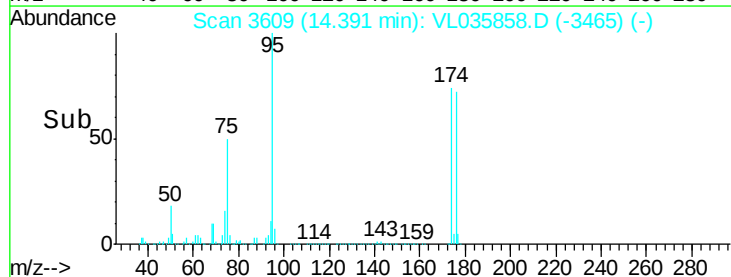
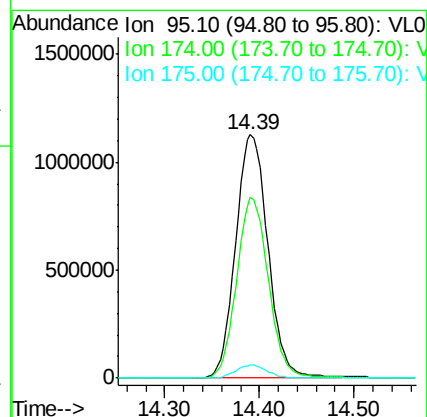
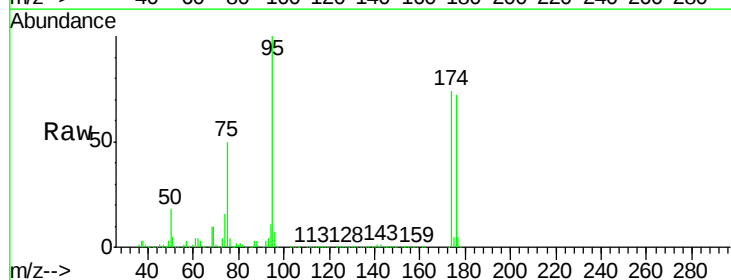
Tgt Ion: 95 Resp: 2679697

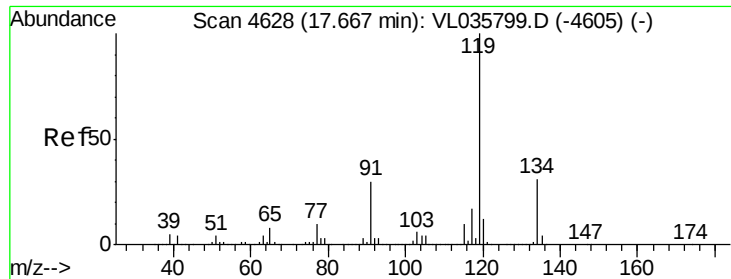
Ion Ratio Lower Upper

95 100

174 73.6 59.8 89.6

175 5.3 4.3 6.5





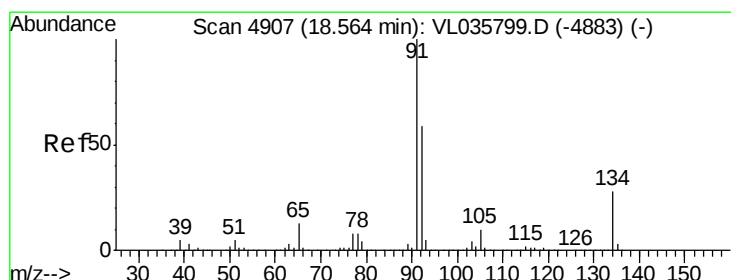
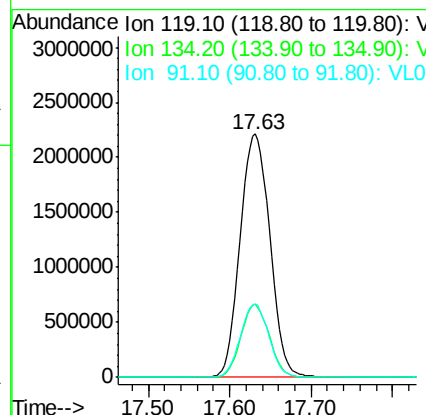
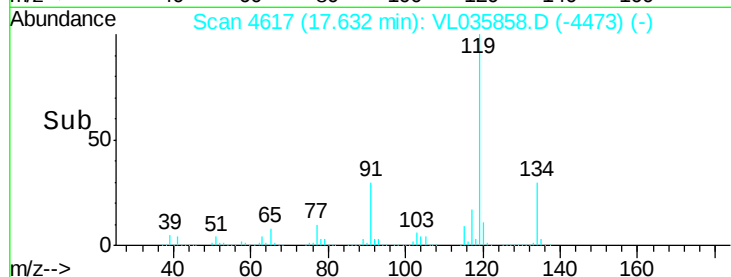
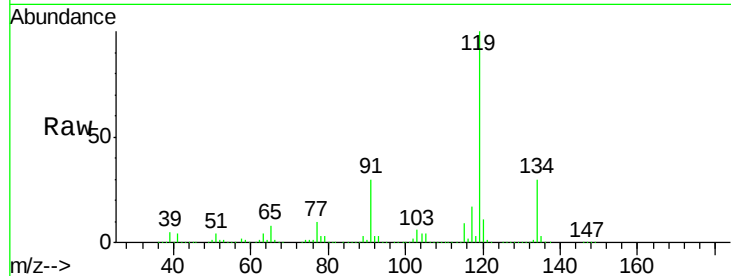
#69
 p-Isopropyltoluene
 Concen: 9.156 ppbv
 RT: 17.63 min Scan# 4617
 Delta R.T. -0.04 min
 Lab File: VL035858.D
 Acq: 5 Nov 2020 11:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 119 Resp: 5601741
 Ion Ratio Lower Upper
 119 100
 134 28.4 23.0 34.6
 91 28.7 22.8 34.2

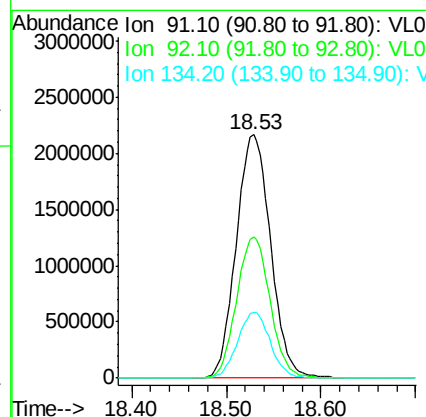
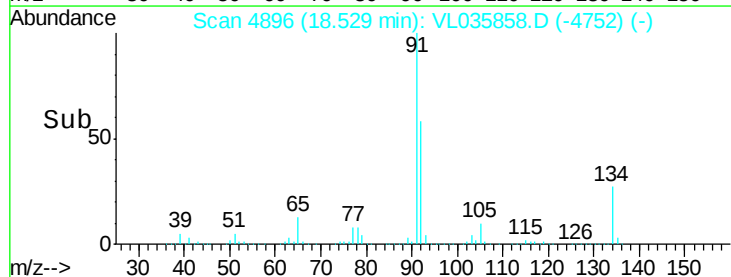
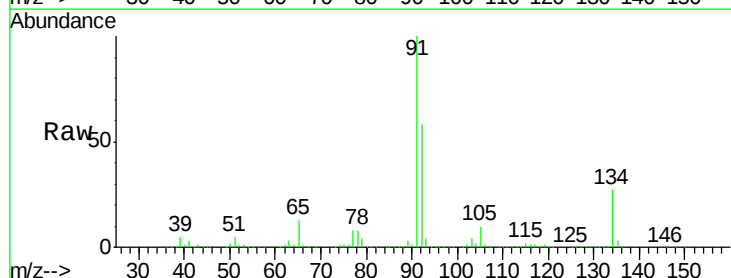
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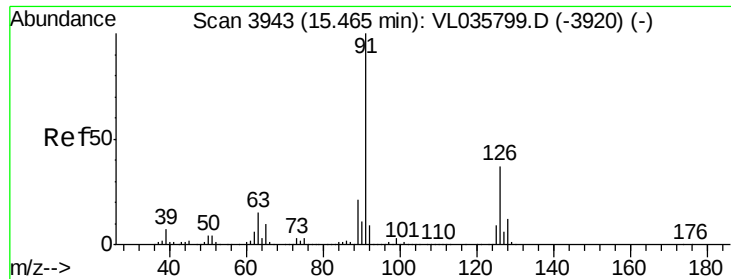
MMDadoda
 11/9/2020 1:38:32 PM



#70
 n-Butylbenzene
 Concen: 9.283 ppbv
 RT: 18.53 min Scan# 4896
 Delta R.T. -0.04 min
 Lab File: VL035858.D
 Acq: 5 Nov 2020 11:42

Tgt Ion: 91 Resp: 5469327
 Ion Ratio Lower Upper
 91 100
 92 56.7 45.7 68.5
 134 25.9 21.0 31.4





#71

2-Chlorotoluene

Concen: 9.609 ppbv

RT: 15.43 min Scan# 3932

Delta R.T. -0.04 min

Lab File: VL035858.D

Acq: 5 Nov 2020 11:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 4247928

Ion Ratio Lower Upper

91 100

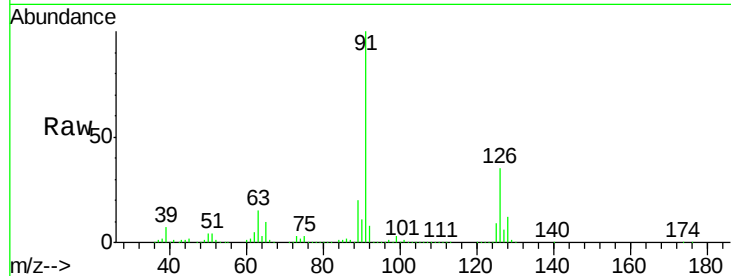
126 34.7 14.3 57.1

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

3000000

2500000

2000000

1500000

1000000

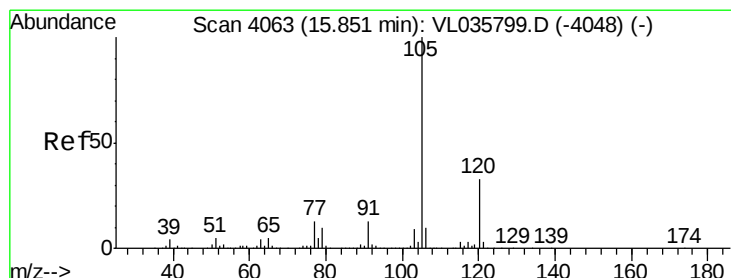
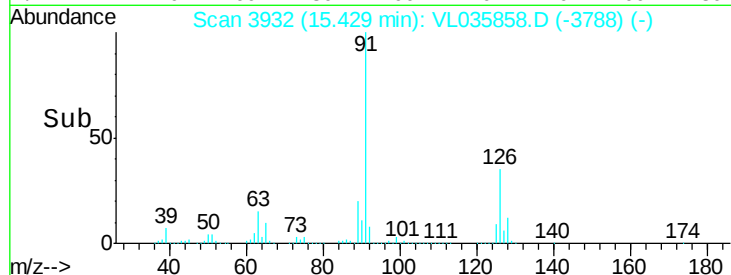
500000

0

Time--> 15.30

15.40

15.50



#72

4-Ethyltoluene

Concen: 9.498 ppbv

RT: 15.82 min Scan# 4053

Delta R.T. -0.03 min

Lab File: VL035858.D

Acq: 5 Nov 2020 11:42

Tgt Ion:105 Resp: 4429928

Ion Ratio Lower Upper

105 100

120 32.5 25.9 38.9

91 13.4 9.9 14.9

77 12.7 10.2 15.2

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

2500000

2000000

1500000

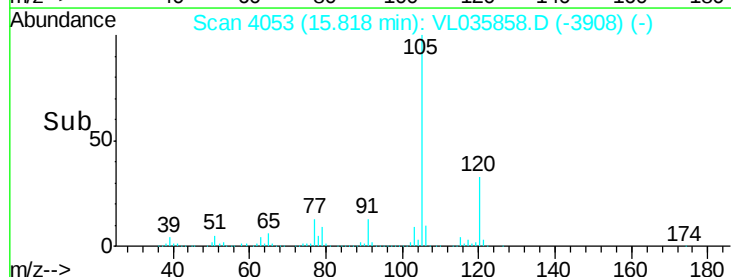
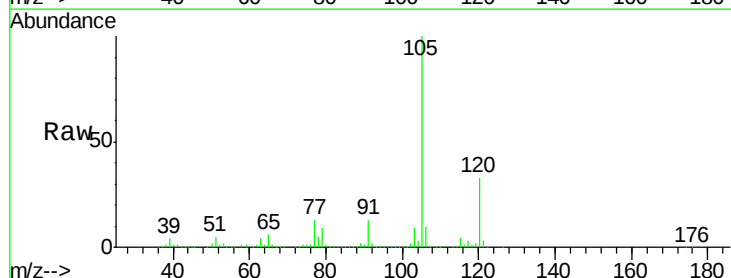
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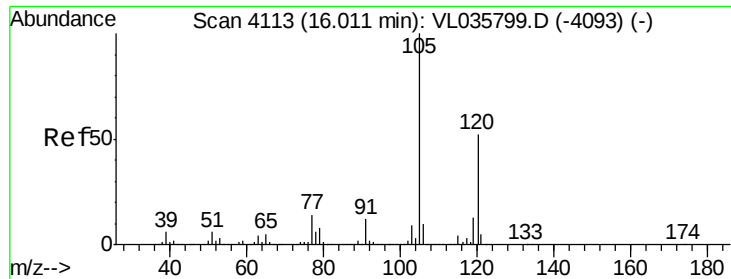
500000

0

Time--> 15.80

15.90





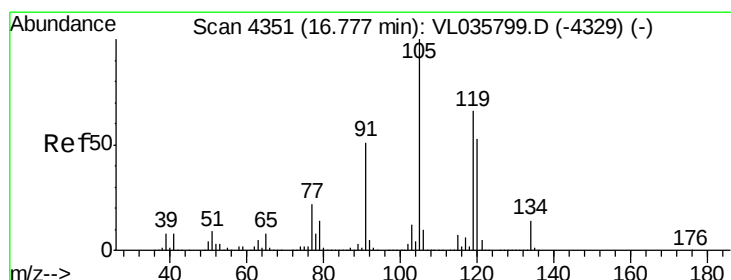
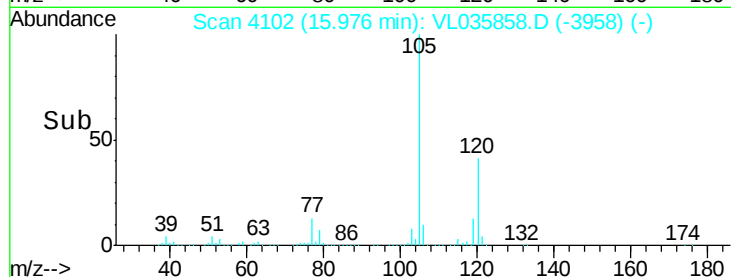
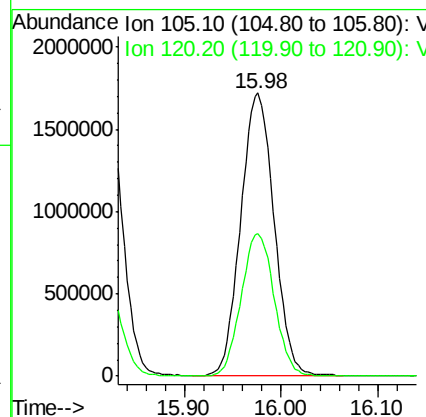
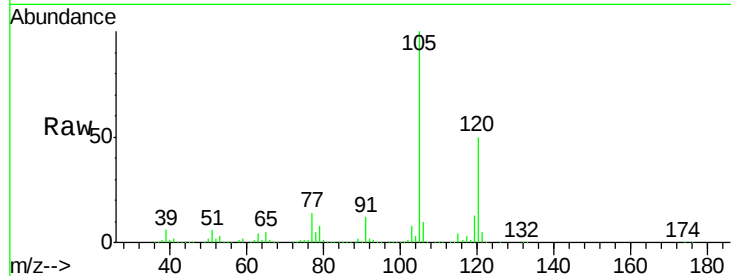
#73
 1,3,5-Trimethylbenzene
 Concen: 9.577 ppbv
 RT: 15.98 min Scan# 4102
 Delta R.T. -0.04 min
 Lab File: VL035858.D
 Acq: 5 Nov 2020 11:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:105 Resp: 4087387
 Ion Ratio Lower Upper
 105 100
 120 50.4 41.4 62.2

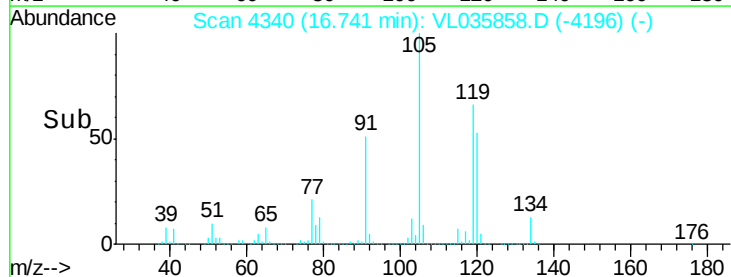
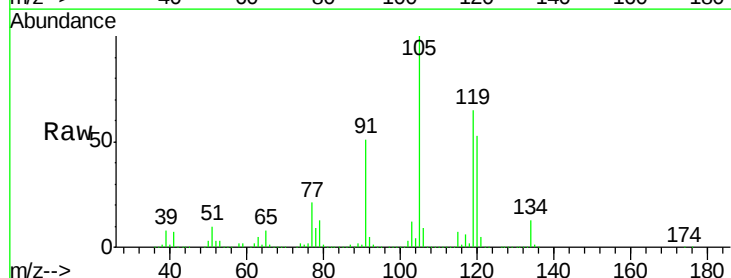
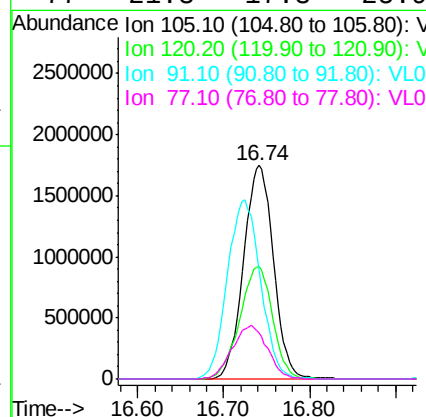
Manual Integrations
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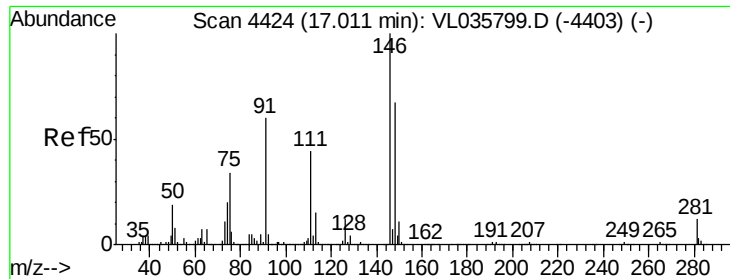
MMDadoda
 11/9/2020 1:38:32 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 9.274 ppbv
 RT: 16.74 min Scan# 4340
 Delta R.T. -0.04 min
 Lab File: VL035858.D
 Acq: 5 Nov 2020 11:42

Tgt Ion:105 Resp: 4241397
 Ion Ratio Lower Upper
 105 100
 120 53.0 42.0 63.0
 91 50.6 41.0 61.6
 77 21.3 17.3 25.9





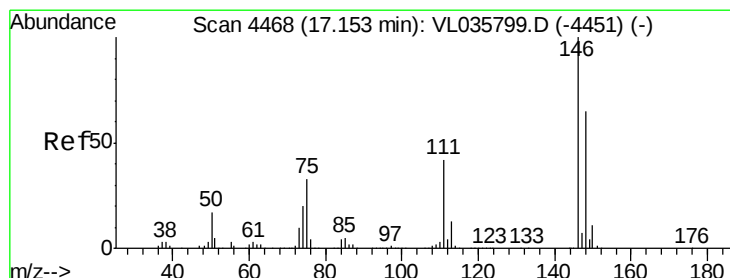
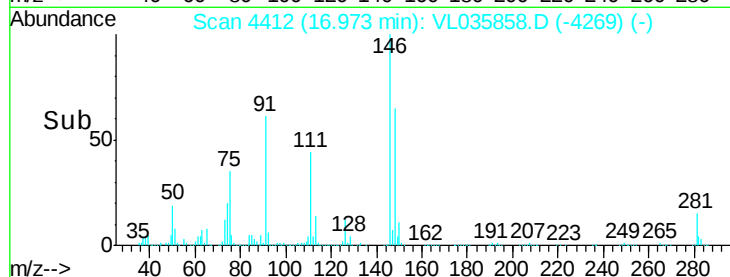
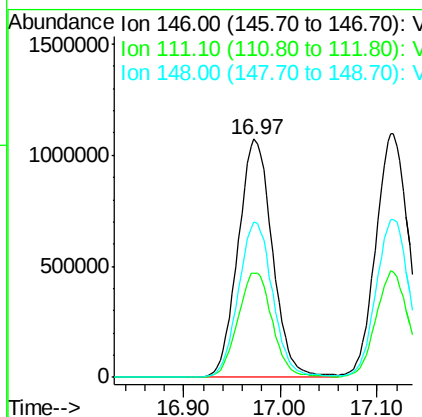
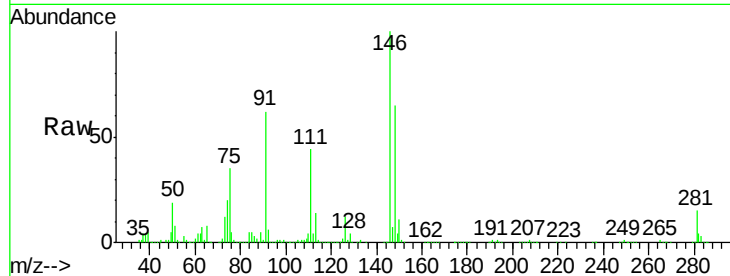
#75
 1,3-Dichlorobenzene
 Concen: 9.107 ppbv
 RT: 16.97 min Scan# 4412
 Delta R.T. -0.04 min
 Lab File: VL035858.D
 Acq: 5 Nov 2020 11:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.2	21.8	65.4
148	65.1	32.5	97.5

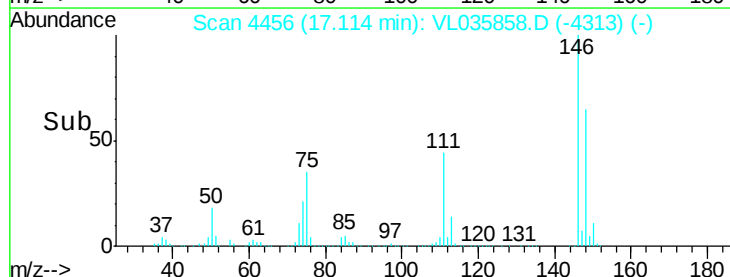
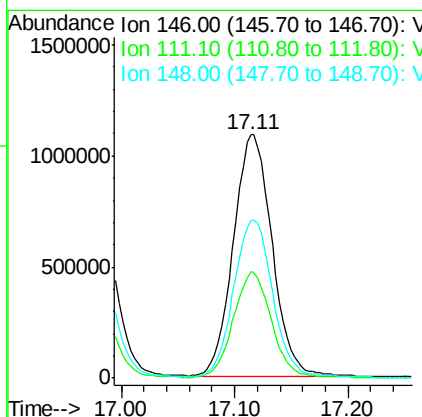
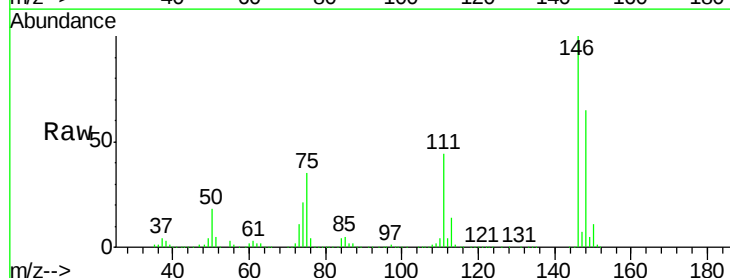
Manual Integrations
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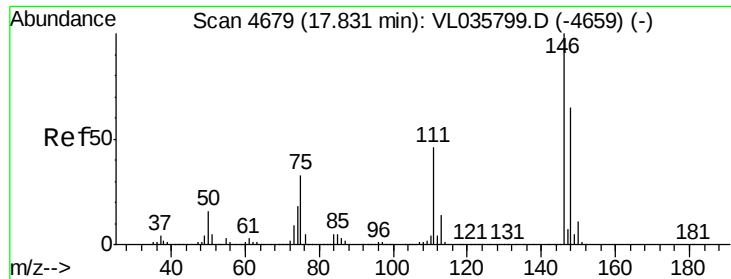
MMDadoda
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#76
 1,4-Dichlorobenzene
 Concen: 9.208 ppbv
 RT: 17.11 min Scan# 4456
 Delta R.T. -0.04 min
 Lab File: VL035858.D
 Acq: 5 Nov 2020 11:42

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.9	21.3	63.7
148	67.0	33.0	99.0





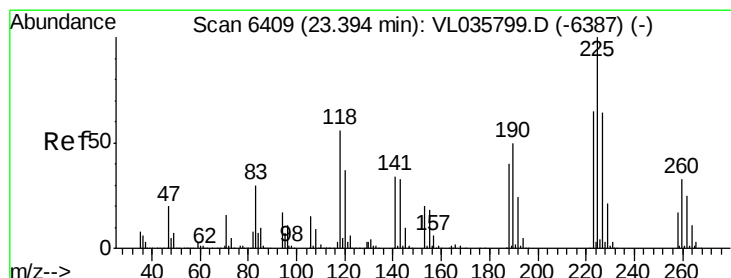
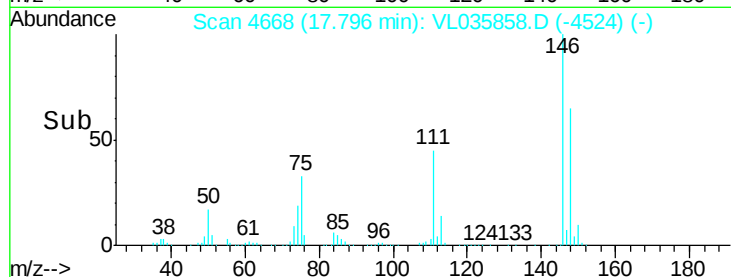
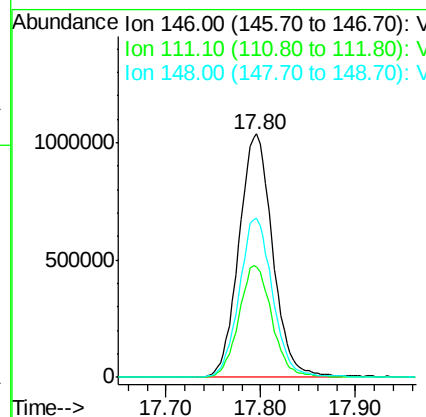
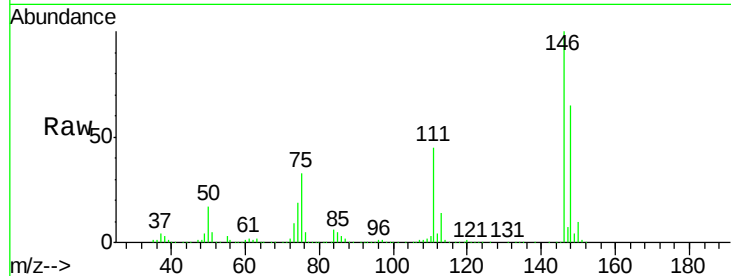
#77
 1,2-Dichlorobenzene
 Concen: 9.025 ppbv
 RT: 17.80 min Scan# 4668
 Delta R.T. -0.04 min
 Lab File: VL035858.D
 Acq: 5 Nov 2020 11:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:146 Resp: 2561702
 Ion Ratio Lower Upper
 146 100
 111 45.0 22.4 67.0
 148 64.8 32.5 97.5

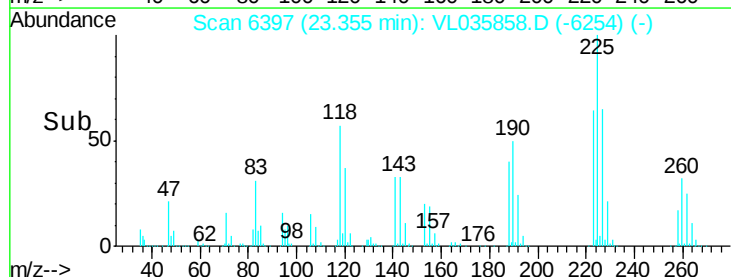
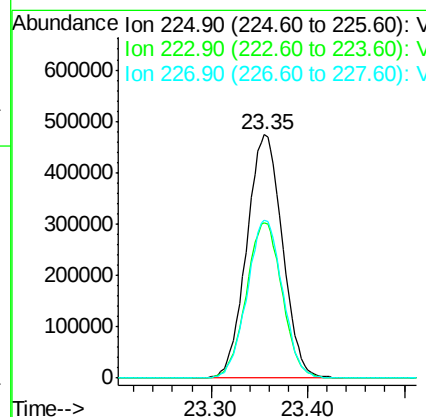
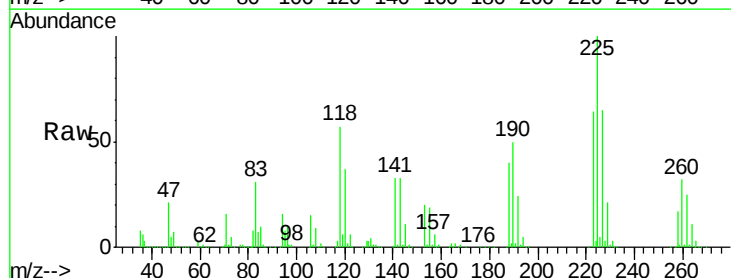
Manual Integrations
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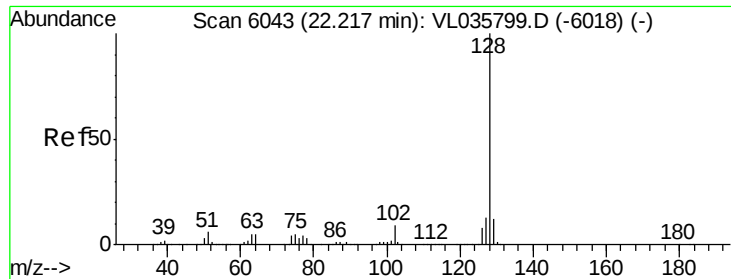
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#78
 Hexachloro-1,3-Butadiene
 Concen: 9.192 ppbv
 RT: 23.35 min Scan# 6397
 Delta R.T. -0.04 min
 Lab File: VL035858.D
 Acq: 5 Nov 2020 11:42

Tgt Ion:225 Resp: 1217453
 Ion Ratio Lower Upper
 225 100
 223 64.1 51.0 76.6
 227 64.4 51.2 76.8





#79

Naphthalene

Concen: 9.259 ppbv

RT: 22.17 min Scan# 6029

Delta R.T. -0.05 min

Lab File: VL035858.D

Acq: 5 Nov 2020 11:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:128 Resp: 2951805

Ion Ratio Lower Upper

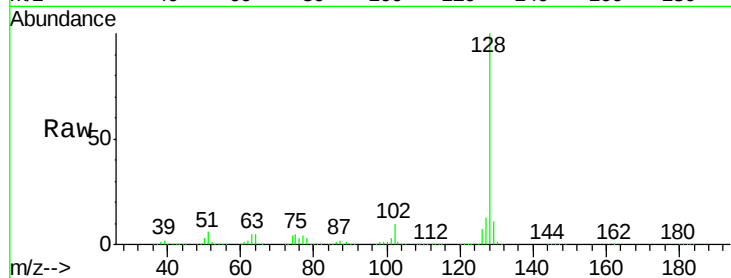
128 100

127 12.8 10.2 15.4

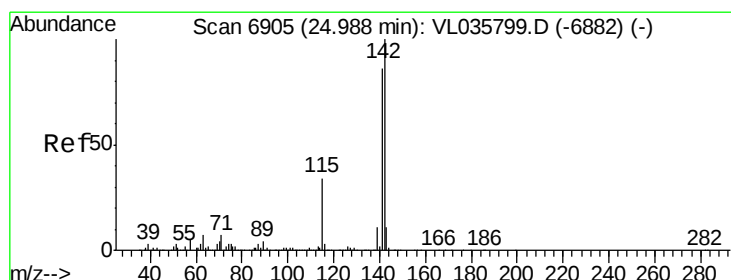
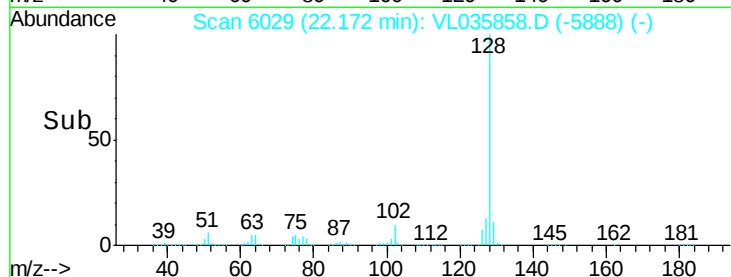
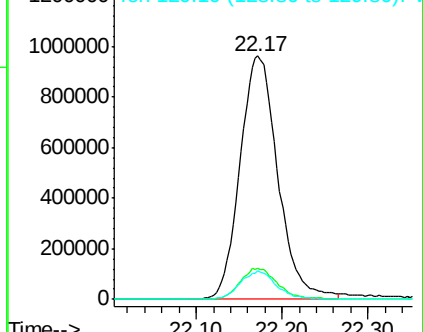
129 11.5 9.2 13.8

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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: 8.816 ppbv

RT: 24.96 min Scan# 6896

Delta R.T. -0.03 min

Lab File: VL035858.D

Acq: 5 Nov 2020 11:42

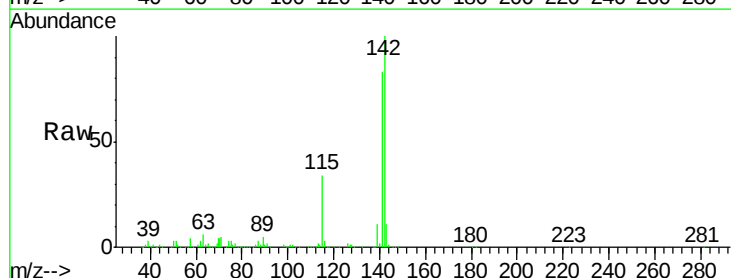
Tgt Ion:142 Resp: 458012

Ion Ratio Lower Upper

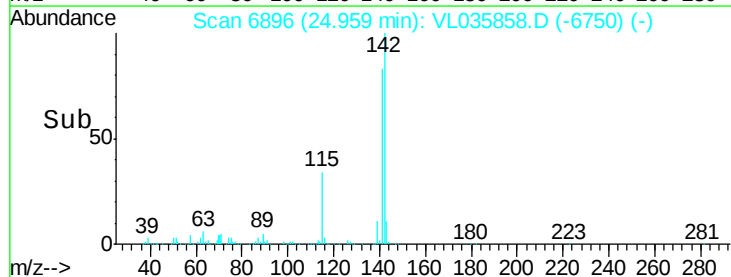
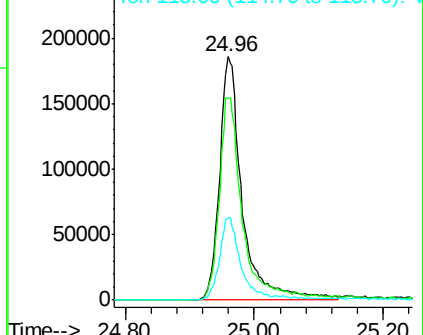
142 100

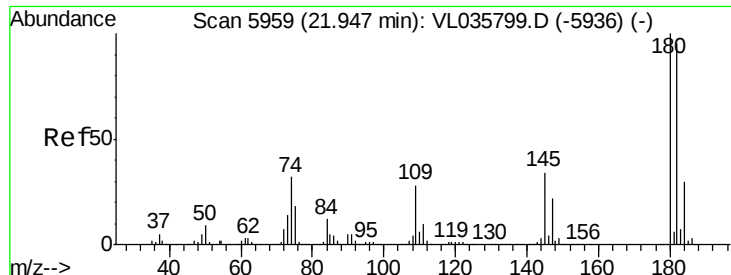
141 84.5 67.8 101.8

115 33.2 28.1 42.1



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: 8.919 ppbv
 RT: 21.90 min Scan# 5946
 Delta R.T. -0.04 min
 Lab File: VL035858.D
 Acq: 5 Nov 2020 11:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	98.4	77.2	115.8
184	30.9	24.7	37.1

Manual Integrations
 APPROVED

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