

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091620\
 Data File : VL035652.D
 Acq On : 17 Sep 2020 8:43
 Operator : SY/AP
 Sample : VL0916ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0916ABS01

Manual Integrations
 APPROVED

MMDadoda
 9/17/2020 1:53:12 PM

Quant Time: Sep 17 10:27:03 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep 14 2020
 QLast Update : Mon Sep 14 15:19:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1127932	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4884306	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	5014673m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	3500512	9.83	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	1671272	8.550	ppbv	100
3) Chlorodifluoromethane	2.98	51	1234266	9.894	ppbv	99
4) Chloromethane	3.13	50	657007	9.830	ppbv	99
5) Vinyl Chloride	3.25	62	809174	9.820	ppbv	100
6) Bromomethane	3.47	94	711124	10.275	ppbv	99
7) Chloroethane	3.55	64	310065	10.643	ppbv	96
8) Dichlorotetrafluoroethane	3.18	85	2283664	9.647	ppbv	93
9) Propene	3.00	41	471761	9.809	ppbv	99
10) Heptane	8.13	43	1310255	10.143	ppbv	98
11) Trichlorofluoromethane	3.95	101	2571001	9.019	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1999885	9.295	ppbv	90
13) Ethanol	3.60	45	126342	10.596	ppbv	98
14) Bromoethene	3.74	108	954818	10.310	ppbv	99
15) Acetone	3.85	43	1069995	8.601	ppbv	99
16) 1,3-Butadiene	3.32	39	479563	10.356	ppbv	98
17) tert-Butyl alcohol	4.29	59	1718991	11.352	ppbv	99
18) 1,1-Dichloroethene	4.29	96	955706	10.087	ppbv	95
19) Isopropyl Alcohol	3.96	45	861032	11.602	ppbv	99
20) Methylene Chloride	4.34	84	818896	8.838	ppbv	96
21) Allyl Chloride	4.41	41	669249	11.483	ppbv	100
22) trans-1,2-Dichloroethene	4.88	96	980008	9.716	ppbv	91
23) Vinyl Acetate	5.08	43	1706024	10.685	ppbv	99
24) 1,1-Dichloroethane	5.01	63	1661816	10.114	ppbv	100
25) Ethyl Acetate	5.68	43	2212434	10.067	ppbv	99
26) Hexane	5.69	57	1280219	10.281	ppbv	98
27) Carbon Disulfide	4.55	76	2078794	11.633	ppbv	100
28) Methyl tert-Butyl Ether	5.03	73	2353338	10.844	ppbv	100
29) Chloroform	5.76	83	2550113	10.051	ppbv	100
30) Cyclohexane	7.13	84	1461102	10.953	ppbv	99
31) cis-1,2-Dichloroethene	5.55	61	1374654	10.760	ppbv	98
32) 1,1,1-Trichloroethane	6.52	97	2537269	10.309	ppbv	100
34) 2-Butanone	5.25	43	1511800	10.430	ppbv	99
35) Carbon Tetrachloride	7.02	117	2587260	10.540	ppbv	98
36) Benzene	6.90	78	3324758	10.516	ppbv	99
37) 1,2-Dichloroethane	6.31	62	1568806	10.408	ppbv	100
38) Trichloroethene	7.84	130	1669005	9.088	ppbv	97
39) 1,2-Dichloropropane	7.62	63	1115271	10.442	ppbv	99
40) 1,4-Dioxane	7.84	88	598382	11.215	ppbv	97
41) Tetrahydrofuran	6.05	42	860113	11.190	ppbv	97
42) Bromodichloromethane	7.80	83	2700430	11.078	ppbv	100
43) Methyl Methacrylate	8.02	69	1397911	11.434	ppbv	98

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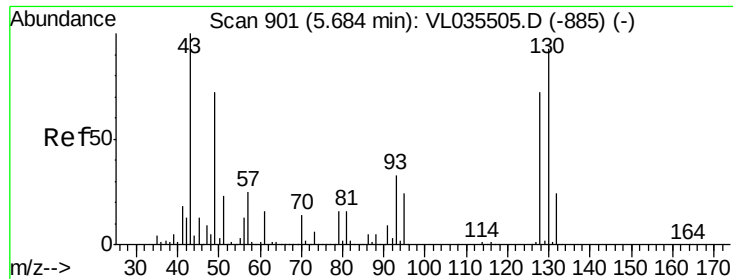
Manual Integrations
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 9/17/2020 1:53:12 PM

Quant Time: Sep 17 10:27:03 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep 14 2020
 QLast Update : Mon Sep 14 15:19:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	4254282	10.227	ppbv	100
45) t-1,3-Dichloropropene	9.29	75	1604943	12.959	ppbv	99
46) cis-1,3-Dichloropropene	8.71	75	1893227	12.312	ppbv	97
47) 1,1,2-Trichloroethane	9.49	97	1642225	10.420	ppbv	98
48) Dibromochloromethane	10.32	129	2735134	11.027	ppbv	100
49) Bromoform	13.06	173	2447200	10.887	ppbv	100
50) 4-Methyl-2-Pentanone	8.75	43	2214693	10.551	ppbv	98
51) 2-Hexanone	10.14	43	1880940	10.924	ppbv	98
52) Tetrachloroethene	11.24	164	1657929	8.976	ppbv	96
53) Toluene	9.82	91	4209558	10.588	ppbv	99
54) 1,2-Dibromoethane	10.63	107	2601770	10.448	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.14	131	2120961	10.395	ppbv	99
57) Chlorobenzene	12.16	112	3572985	9.681	ppbv	98
58) Ethyl Benzene	12.73	91	5457177	10.553	ppbv	99
59) m/p-Xylene	13.01	91	9200310m	21.292	ppbv	
60) o-Xylene	13.71	91	4469945	10.271	ppbv	99
61) Styrene	13.55	104	3696345	11.105	ppbv	99
62) Isopropylbenzene	14.69	105	6820864	9.757	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.70	83	3199848	9.484	ppbv	100
64) n-propylbenzene	15.58	120	2162511	10.137	ppbv	95
65) tert-Butylbenzene	16.77	119	6355335	9.780	ppbv	98
66) Benzyl Chloride	17.01	91	2458364	15.222	ppbv	98
67) sec-Butylbenzene	17.32	105	8391252	9.692	ppbv	98
69) p-Isopropyltoluene	17.68	119	7301770	9.614	ppbv	99
70) n-Butylbenzene	18.57	91	7185186	9.822	ppbv	99
71) 2-Chlorotoluene	15.47	91	5240488	10.294	ppbv	98
72) 4-Ethyltoluene	15.86	105	5678863	10.264	ppbv	99
73) 1,3,5-Trimethylbenzene	16.02	105	5230131	10.220	ppbv	99
74) 1,2,4-Trimethylbenzene	16.79	105	5417791	9.641	ppbv	95
75) 1,3-Dichlorobenzene	17.02	146	3734036	8.970	ppbv	99
76) 1,4-Dichlorobenzene	17.16	146	3813843	9.290	ppbv	98
77) 1,2-Dichlorobenzene	17.84	146	3722385	9.230	ppbv	99
78) Hexachloro-1,3-Butadiene	23.40	225	2036620	7.910	ppbv	100
79) Naphthalene	22.23	128	6367062	10.211	ppbv	99
80) Naphthalene, 2-methyl-	25.00	142	2547195	11.968	ppbv	100
81) 1,2,4-Trichlorobenzene	21.96	180	3276373	8.774	ppbv	100

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



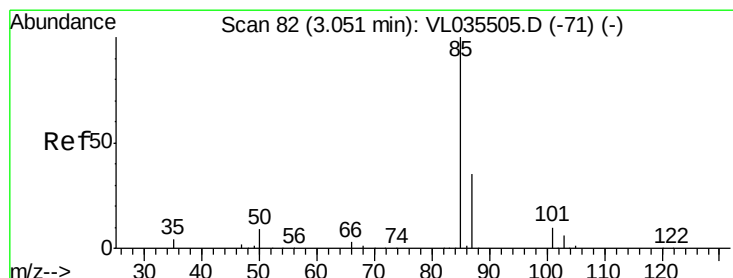
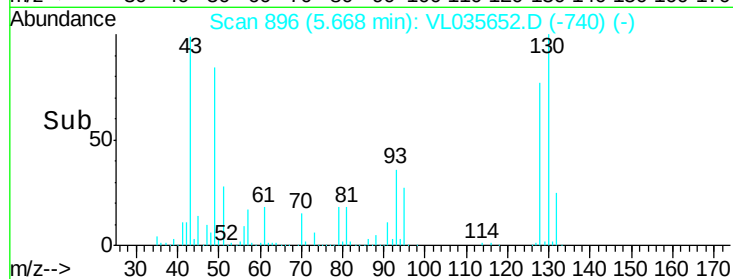
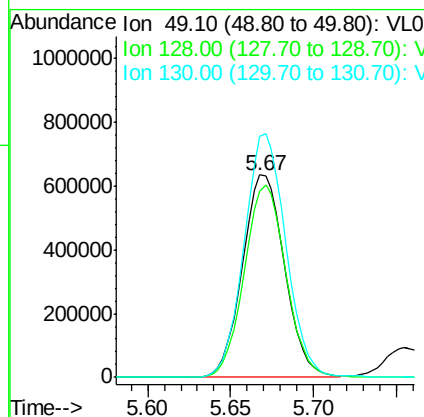
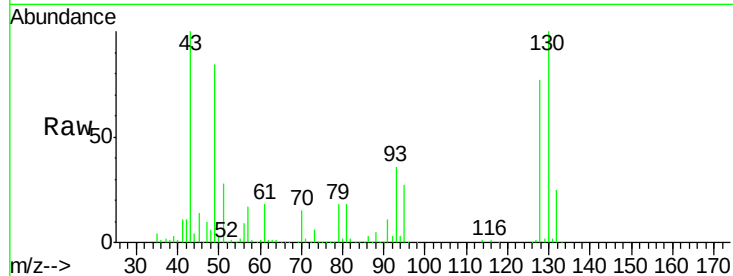
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.67 min Scan# 896
Delta R.T. 0.00 min
Lab File: VL035652.D
Acq: 17 Sep 2020 8:43

Instrument :
MSVOA_L
ClientSampleId :
VL0916ABS01

Tot Ion: 49 Resp: 1127932
Ion Ratio Lower Upper
49 100
128 94.1 50.0 150.1
130 119.5 64.4 193.2

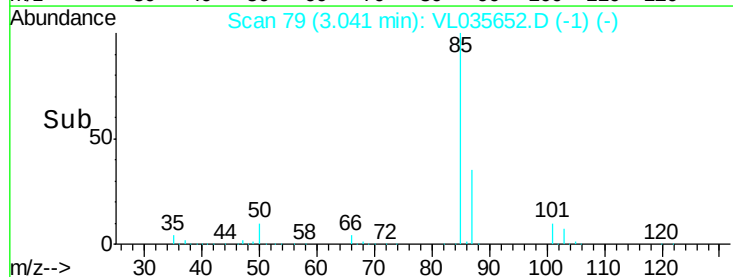
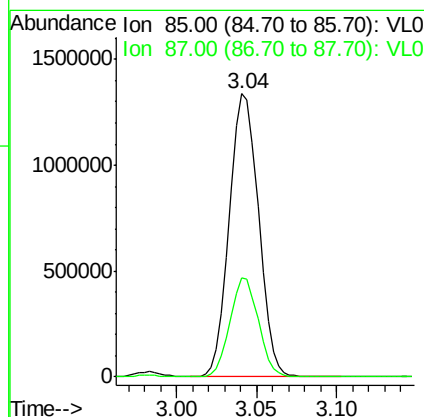
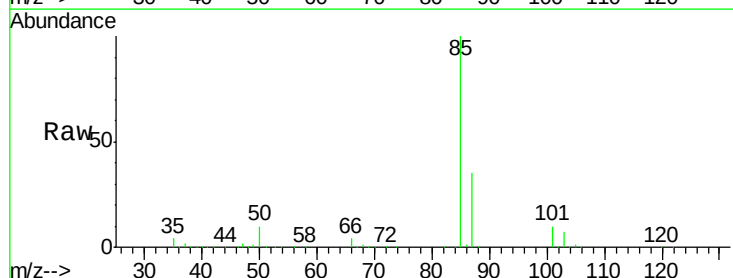
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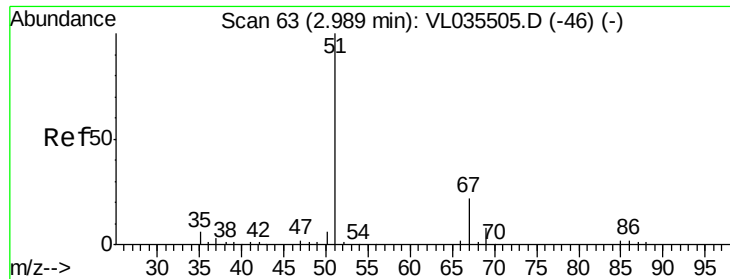
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#2
Dichlorodifluoromethane
Concen: 8.550 ppbv
RT: 3.04 min Scan# 79
Delta R.T. 0.01 min
Lab File: VL035652.D
Acq: 17 Sep 2020 8:43

Tgt Ion: 85 Resp: 1671272
Ion Ratio Lower Upper
85 100
87 35.2 28.0 42.0





#3

Chlorodifluoromethane

Concen: 9.894 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.01 min

Lab File: VL035652.D

Acq: 17 Sep 2020 8:43

Tot Ion: 51 Resp: 1234266

Ion Ratio Lower Upper

51 100

67 22.5 17.8 26.8

Instrument :

MSVOA_L

ClientSampleId :

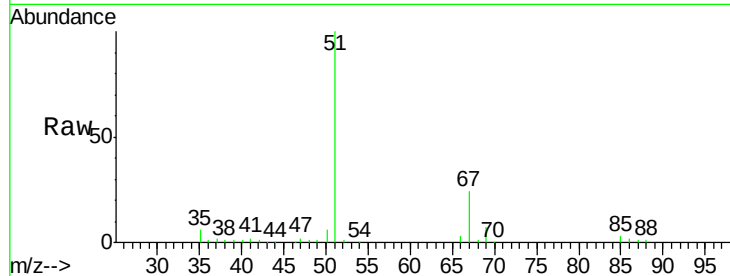
VL0916ABS01

Manual Integrations

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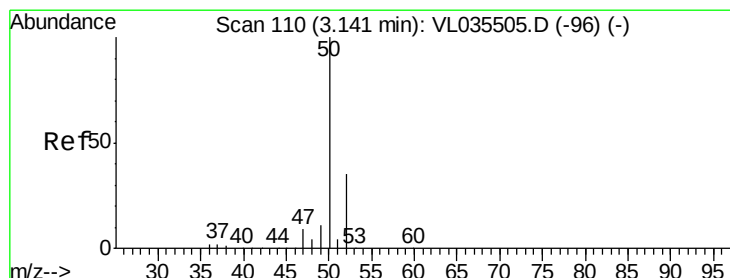
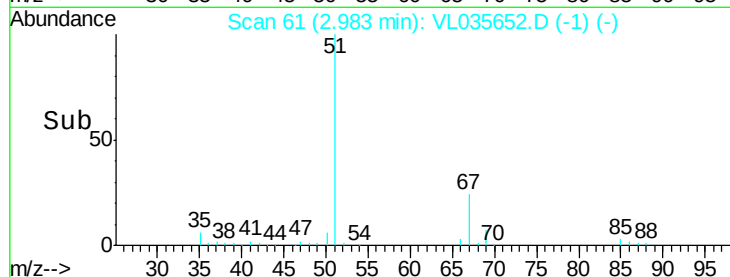
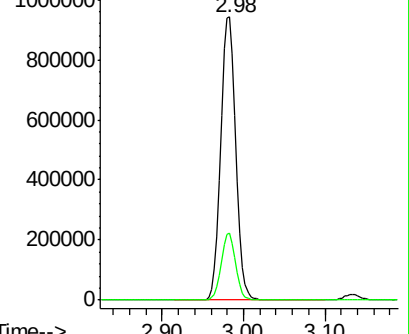
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.830 ppbv

RT: 3.13 min Scan# 108

Delta R.T. 0.01 min

Lab File: VL035652.D

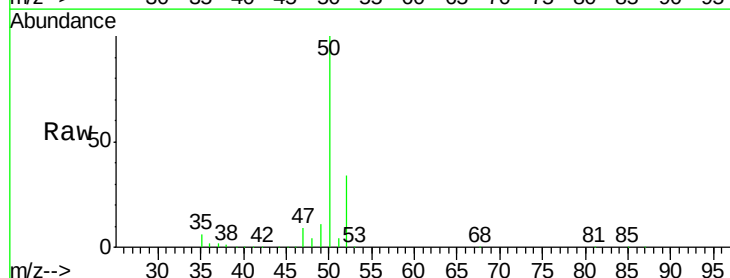
Acq: 17 Sep 2020 8:43

Tgt Ion: 50 Resp: 657007

Ion Ratio Lower Upper

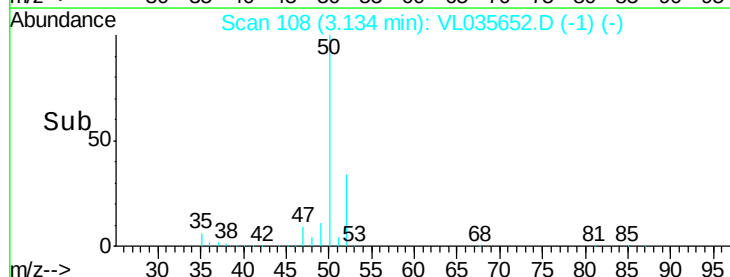
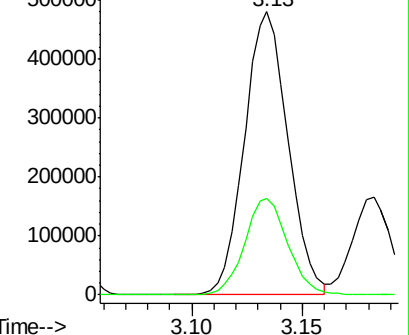
50 100

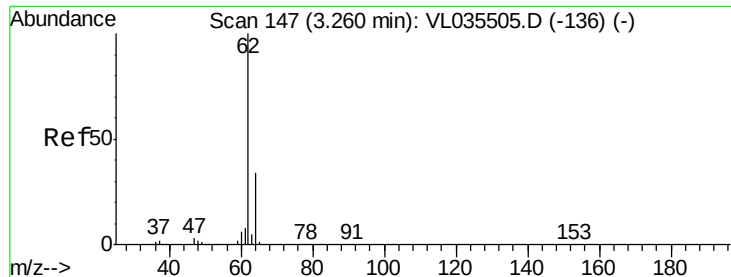
52 34.0 27.7 41.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.820 ppbv

RT: 3.25 min Scan# 144

Delta R.T. 0.01 min

Lab File: VL035652.D

Acq: 17 Sep 2020 8:43

Instrument :

MSVOA_L

ClientSampleId :

VL0916ABS01

Tot Ion: 62 Resp: 809174

Ion Ratio Lower Upper

62 100

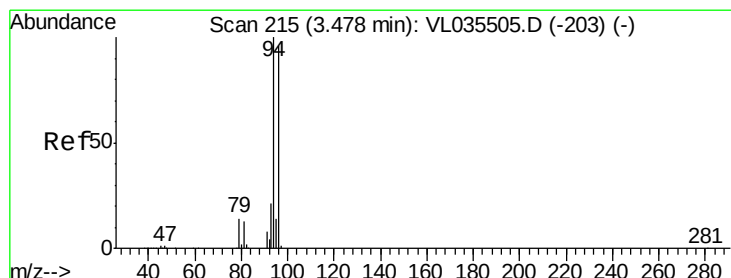
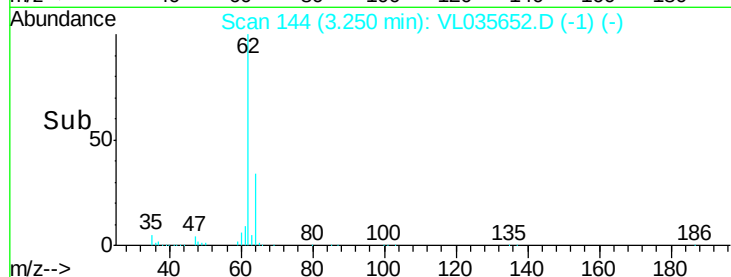
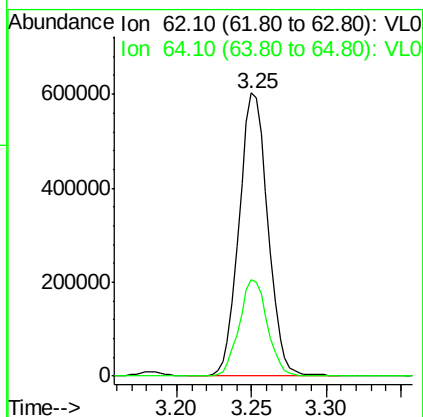
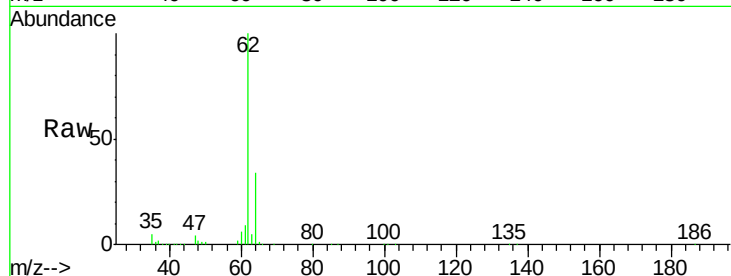
64 34.1 27.4 41.2

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#6

Bromomethane

Concen: 10.275 ppbv

RT: 3.47 min Scan# 212

Delta R.T. 0.01 min

Lab File: VL035652.D

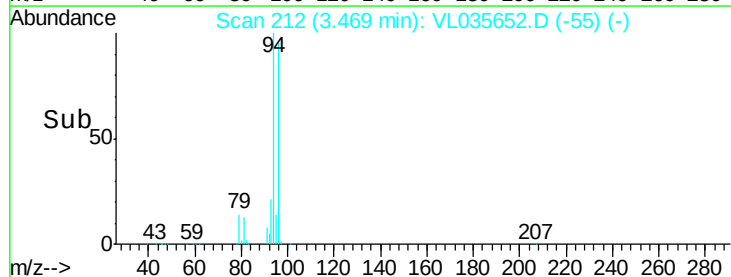
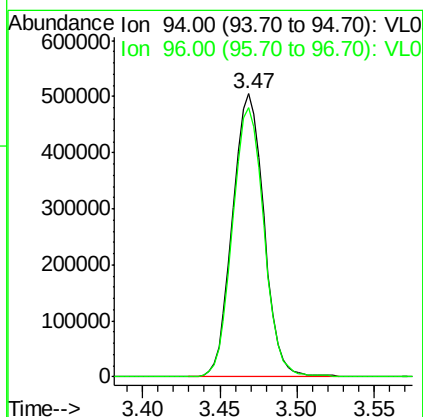
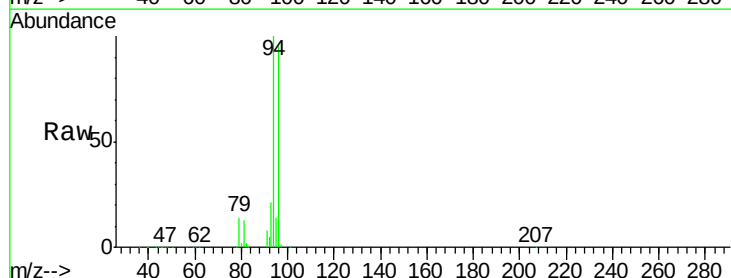
Acq: 17 Sep 2020 8:43

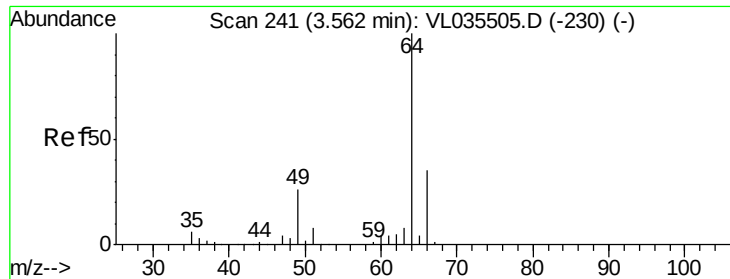
Tgt Ion: 94 Resp: 711124

Ion Ratio Lower Upper

94 100

96 95.0 77.1 115.7





#7

Chloroethane

Concen: 10.643 ppbv

RT: 3.55 min Scan# 238

Delta R.T. 0.01 min

Lab File: VL035652.D

Acq: 17 Sep 2020 8:43

Instrument :

MSVOA_L

ClientSampleId :

VL0916ABS01

Tot Ion: 64 Resp: 310065

Ion Ratio Lower Upper

64 100

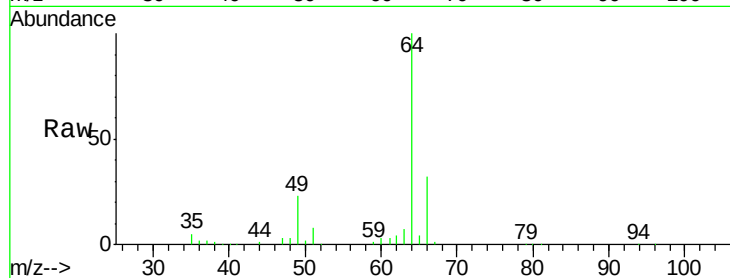
66 32.3 27.7 41.5

Manual Integrations

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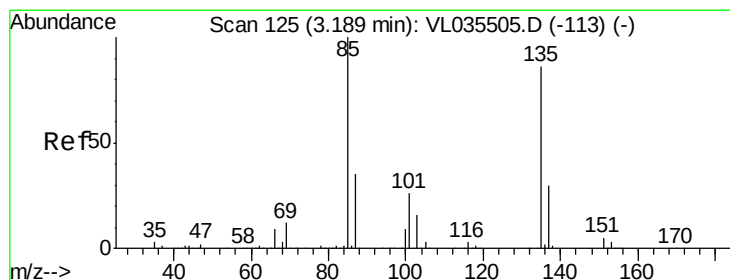
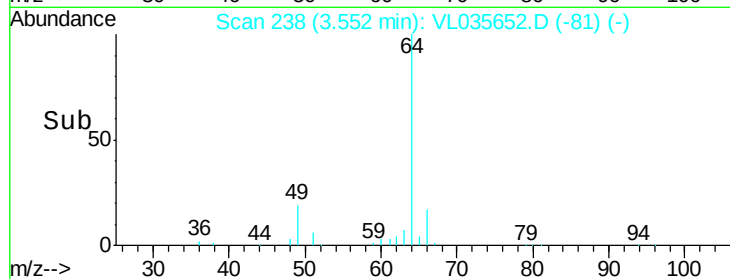
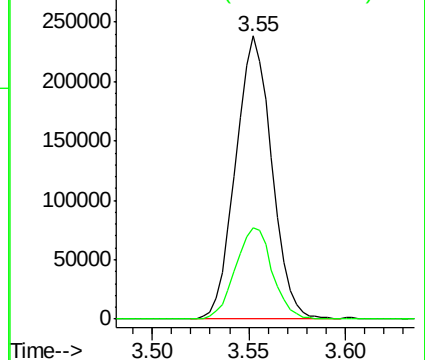
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 9.647 ppbv

RT: 3.18 min Scan# 123

Delta R.T. 0.01 min

Lab File: VL035652.D

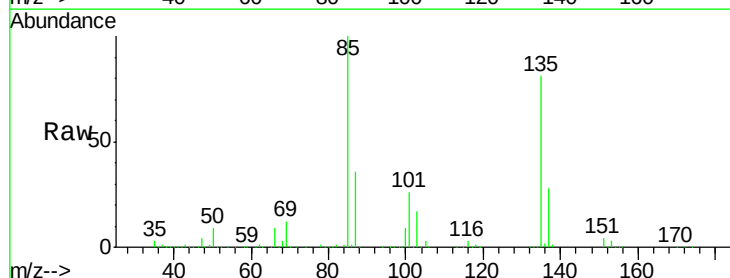
Acq: 17 Sep 2020 8:43

Tgt Ion: 85 Resp: 2283664

Ion Ratio Lower Upper

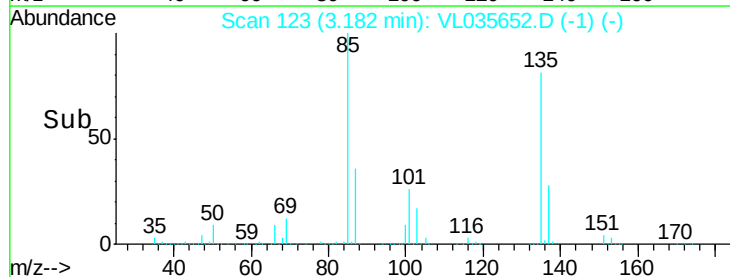
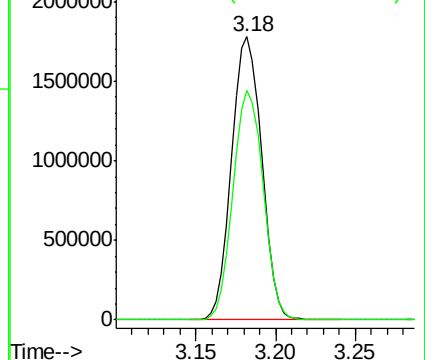
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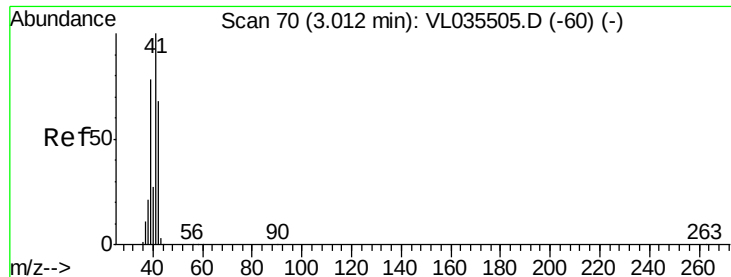
135 81.3 70.4 105.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 9.809 ppbv

RT: 3.00 min Scan# 67

Delta R.T. 0.01 min

Lab File: VL035652.D

Acq: 17 Sep 2020 8:43

Instrument :

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ClientSampleId :

VL0916ABS01

Tot Ion: 41 Resp: 471761

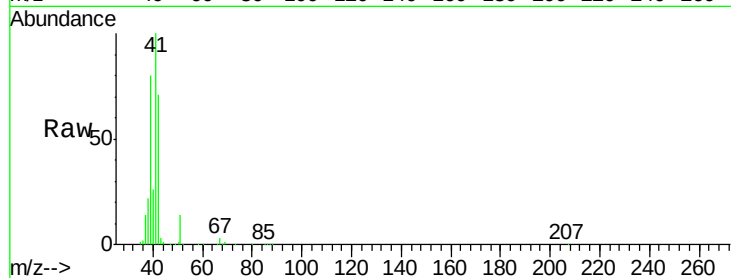
Ion Ratio Lower Upper

41 100

42 69.4 56.3 84.5

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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.00

400000

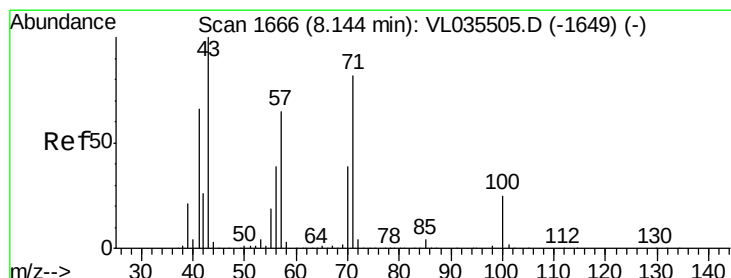
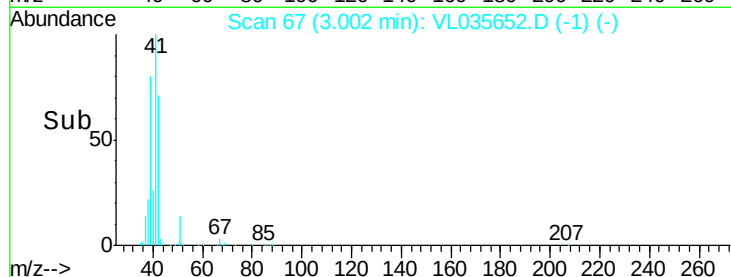
300000

200000

100000

0

Time-->



#10

Heptane

Concen: 10.143 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. 0.00 min

Lab File: VL035652.D

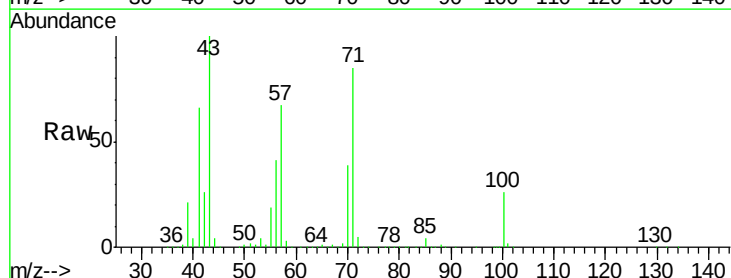
Acq: 17 Sep 2020 8:43

Tgt Ion: 43 Resp: 1310255

Ion Ratio Lower Upper

43 100

57 65.6 51.4 77.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.13

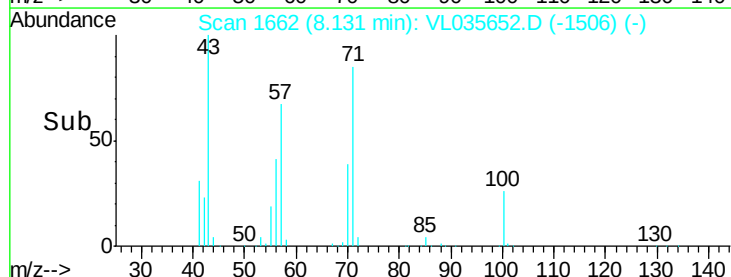
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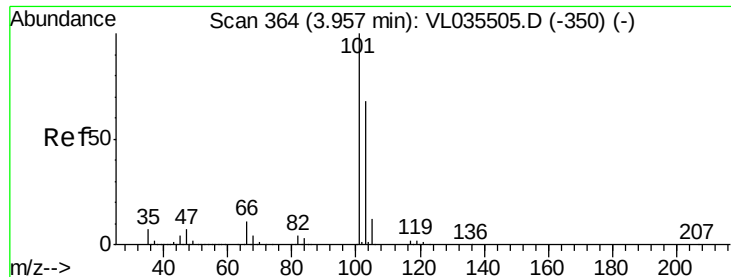
400000

200000

0

Time-->





#11

Trichlorofluoromethane

Concen: 9.019 ppbv

RT: 3.95 min Scan# 361

Delta R.T. 0.01 min

Lab File: VL035652.D

Acq: 17 Sep 2020 8:43

Instrument :

MSVOA_L

ClientSampleId :

VL0916ABS01

Tot Ion:101 Resp: 2571001

Ion Ratio Lower Upper

101 100

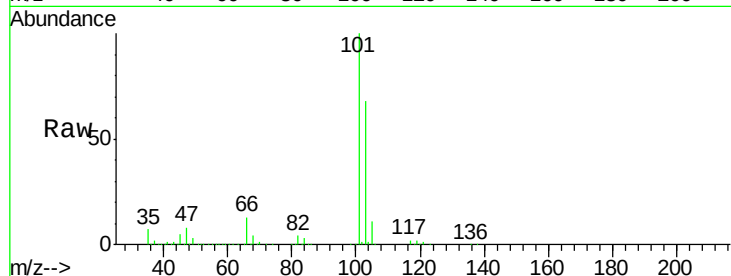
103 67.8 54.5 81.7

Manual Integrations

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Abundance Ion 101.00 (100.70 to 101.70): V

2000000 Ion 103.00 (102.70 to 103.70): V

1500000

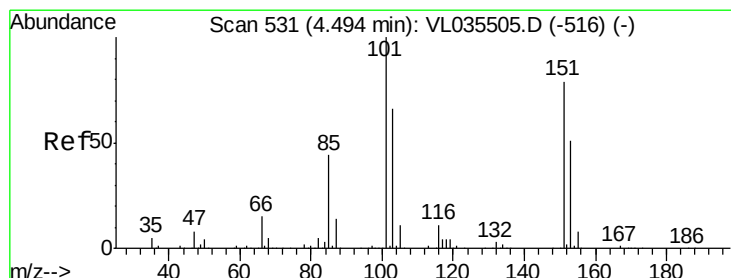
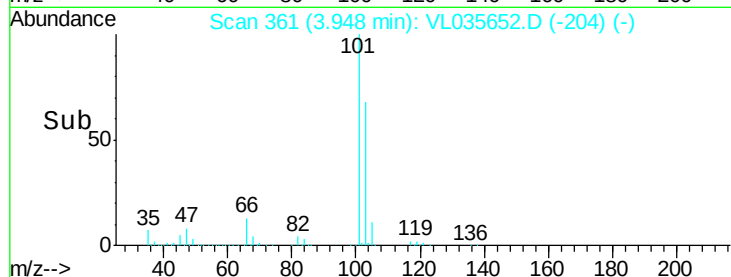
1000000

500000

0

3.90 3.95 4.00

Time-->



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.295 ppbv

RT: 4.48 min Scan# 528

Delta R.T. 0.01 min

Lab File: VL035652.D

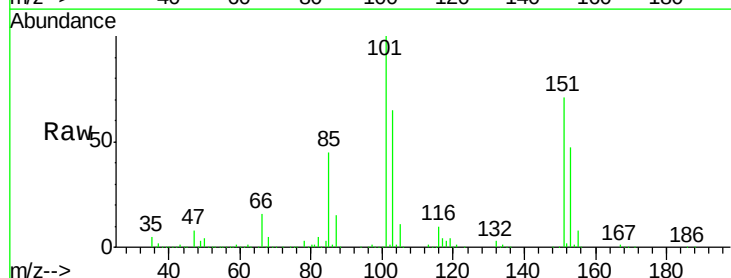
Acq: 17 Sep 2020 8:43

Tgt Ion:101 Resp: 1999885

Ion Ratio Lower Upper

101 100

151 70.7 63.5 95.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

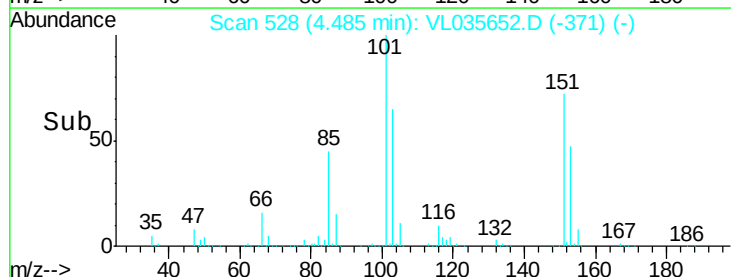
1000000

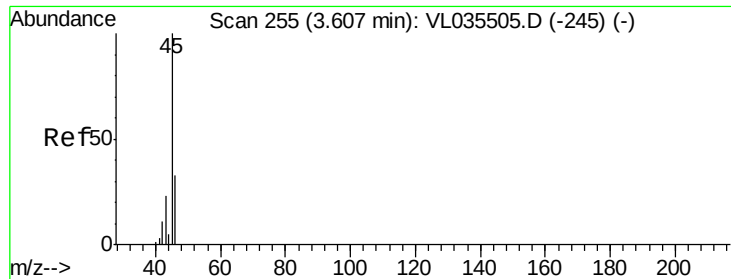
500000

0

4.40 4.45 4.50 4.55

Time-->





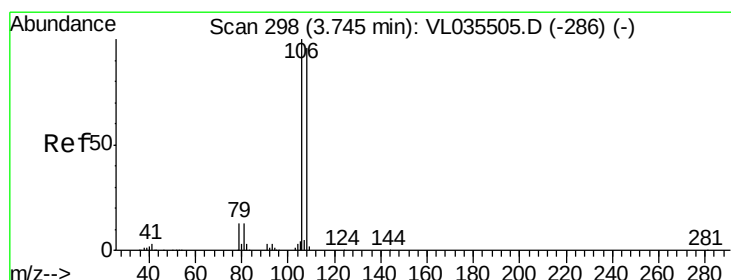
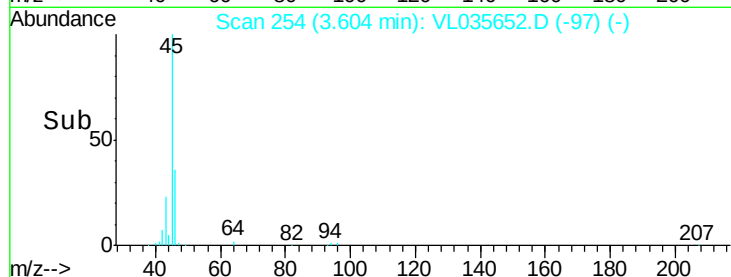
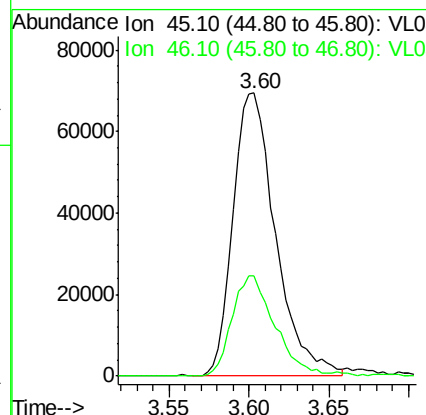
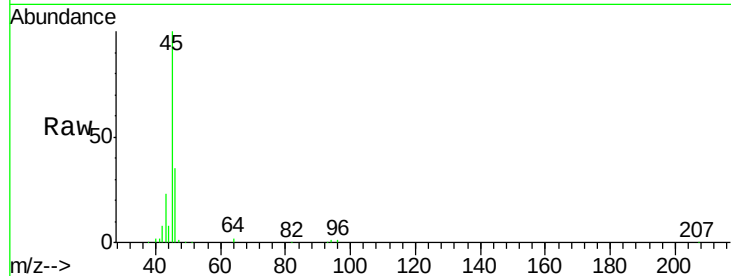
#13
Ethanol
Concen: 10.596 ppbv
RT: 3.60 min Scan# 254
Delta R.T. 0.01 min
Lab File: VL035652.D
Acq: 17 Sep 2020 8:43

Instrument :
MSVOA_L
ClientSampleId :
VL0916ABS01

Tot Ion	Ratio	Lower	Upper
45	100		
46	36.5	15.2	60.6

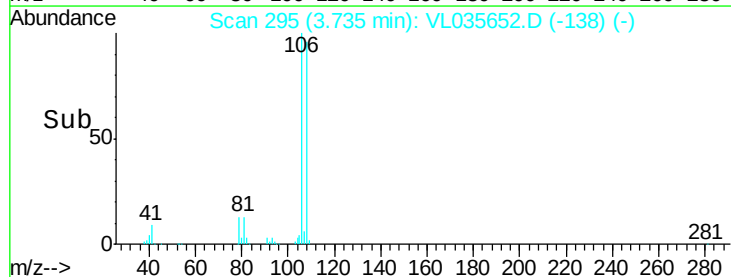
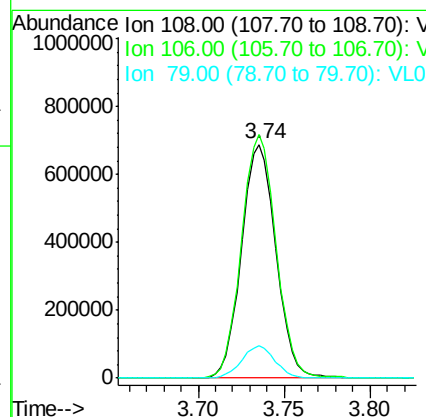
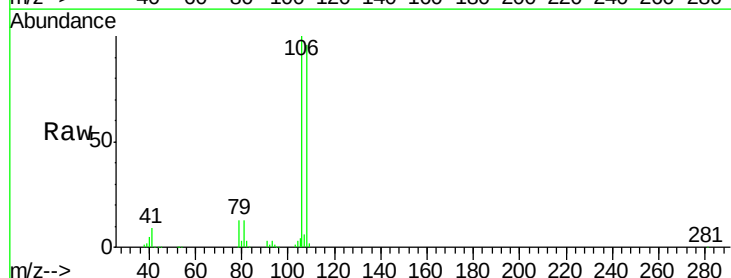
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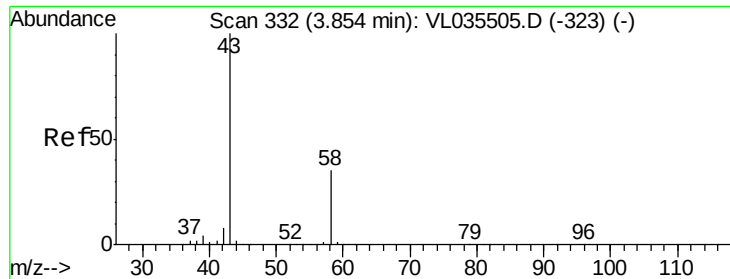
MMDadoda
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#14
Bromoethene
Concen: 10.310 ppbv
RT: 3.74 min Scan# 295
Delta R.T. 0.01 min
Lab File: VL035652.D
Acq: 17 Sep 2020 8:43

Tgt Ion	Ratio	Lower	Upper
108	100		
106	105.2	84.9	127.3
79	13.5	10.8	16.2





#15

Acetone

Concen: 8.601 ppbv

RT: 3.85 min Scan# 330

Delta R.T. 0.01 min

Lab File: VL035652.D

Acq: 17 Sep 2020 8:43

Instrument :

MSVOA_L

ClientSampleId :

VL0916ABS01

Tot Ion: 43 Resp: 1069995

Ion Ratio Lower Upper

43 100

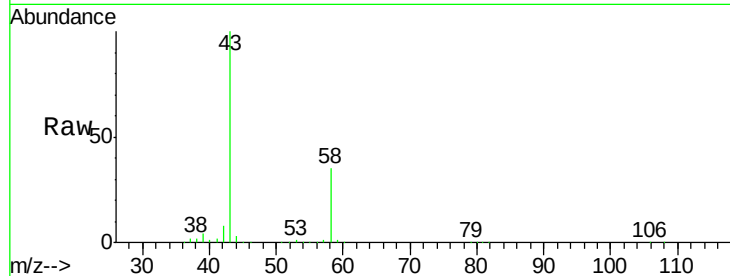
58 35.9 28.4 42.6

Manual Integrations

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

800000

600000

400000

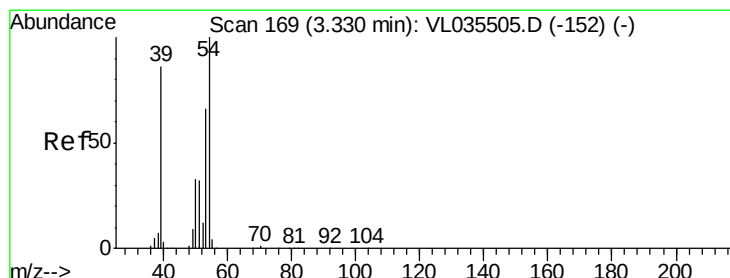
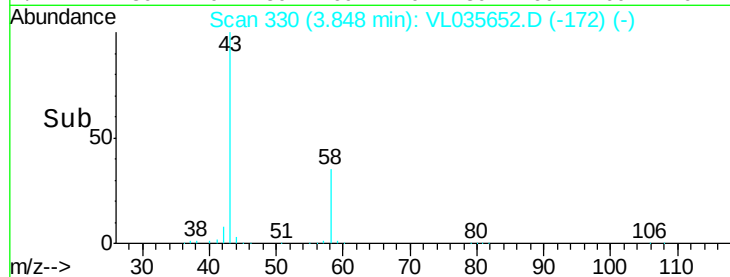
200000

0

3.85

3.80 3.85 3.90

Time-->



#16

1,3-Butadiene

Concen: 10.356 ppbv

RT: 3.32 min Scan# 166

Delta R.T. 0.00 min

Lab File: VL035652.D

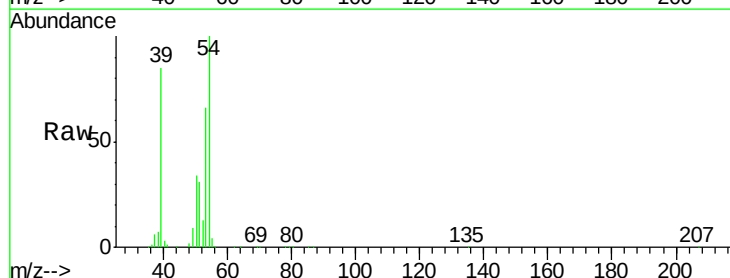
Acq: 17 Sep 2020 8:43

Tgt Ion: 39 Resp: 479563

Ion Ratio Lower Upper

39 100

54 113.0 88.4 132.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

500000

400000

300000

200000

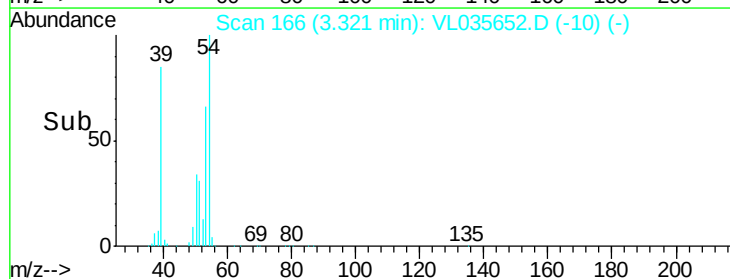
100000

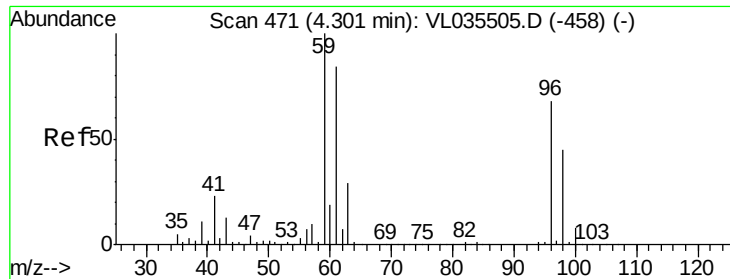
0

3.32

3.25 3.30 3.35 3.40

Time-->





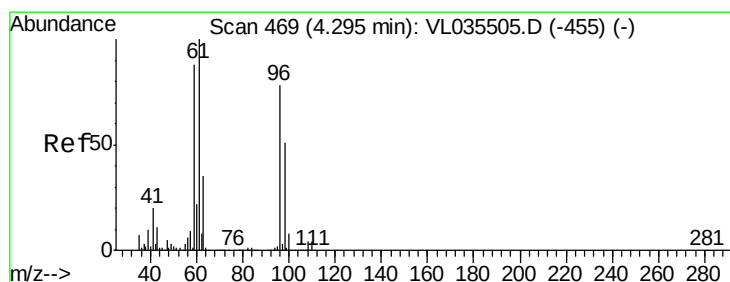
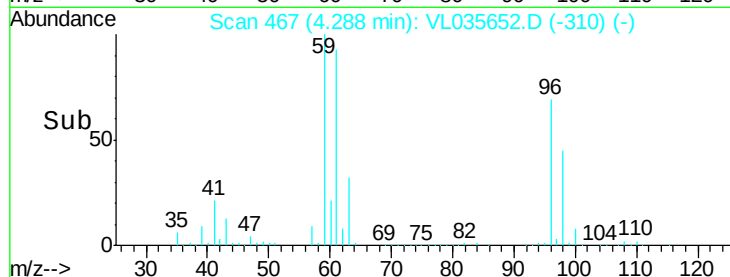
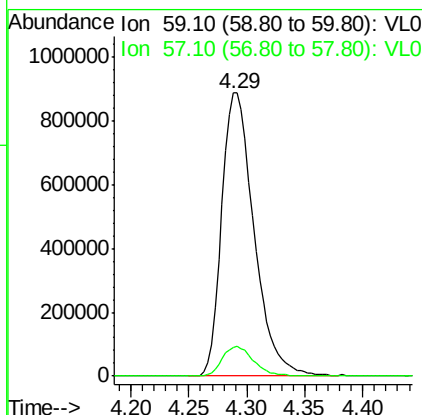
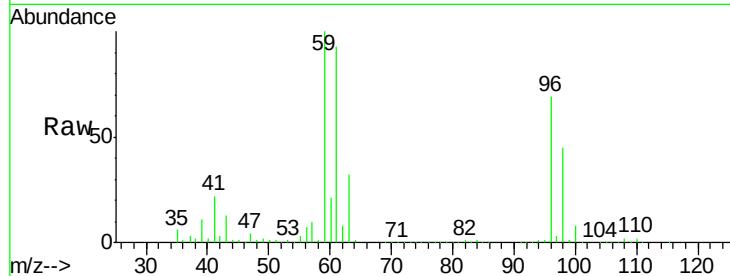
#17
tert-Butyl alcohol
Concen: 11.352 ppbv
RT: 4.29 min Scan# 467
Delta R.T. 0.01 min
Lab File: VL035652.D
Acq: 17 Sep 2020 8:43

Instrument :
MSVOA_L
ClientSampleId :
VL0916ABS01

Tot Ion: 59 Resp: 1718991
Ion Ratio Lower Upper
59 100
57 10.3 8.4 12.6

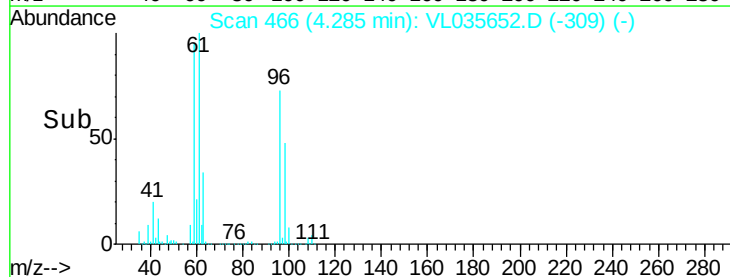
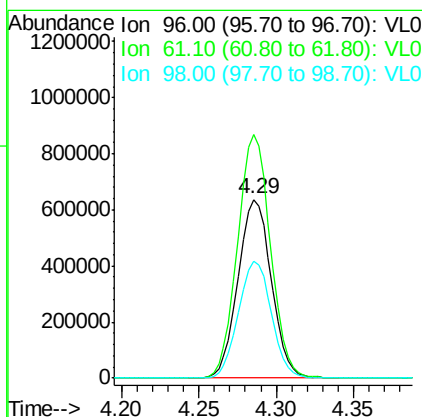
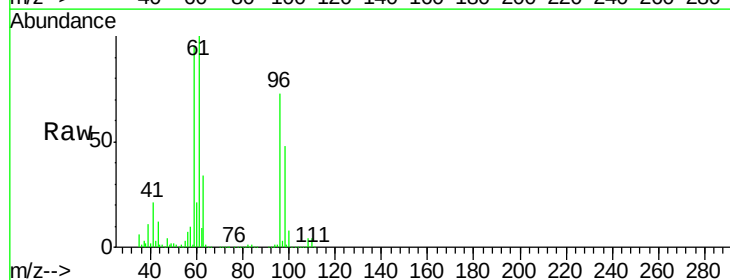
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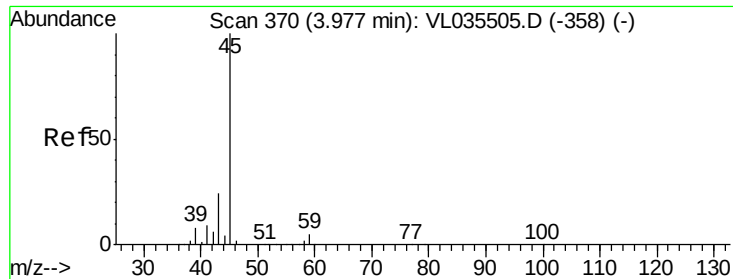
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#18
1,1-Dichloroethene
Concen: 10.087 ppbv
RT: 4.29 min Scan# 466
Delta R.T. 0.01 min
Lab File: VL035652.D
Acq: 17 Sep 2020 8:43

Tgt Ion: 96 Resp: 955706
Ion Ratio Lower Upper
96 100
61 136.1 103.0 154.6
98 65.1 52.8 79.2





#19

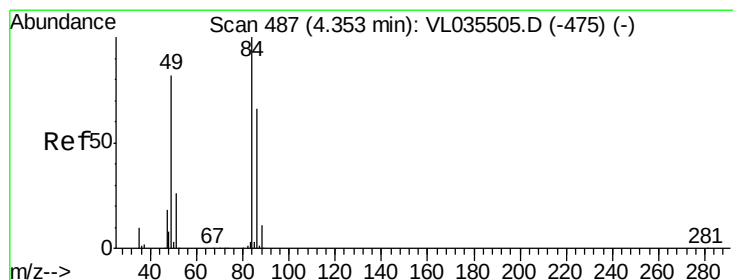
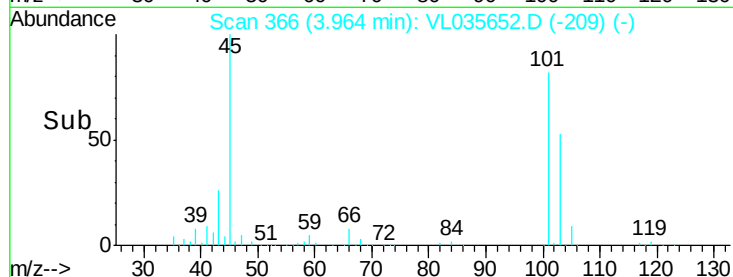
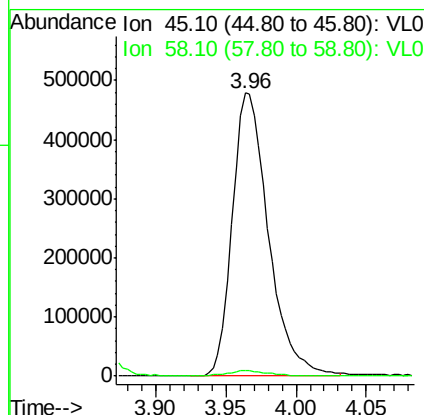
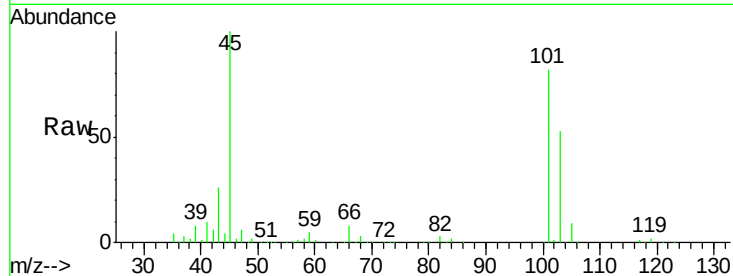
Isopropyl Alcohol
 Concen: 11.602 ppbv
 RT: 3.96 min Scan# 366
 Delta R.T. 0.01 min
 Lab File: VL035652.D
 Acq: 17 Sep 2020 8:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0916ABS01

Tot Ion: 45 Resp: 861032
 Ion Ratio Lower Upper
 45 100
 58 2.3 2.0 3.0

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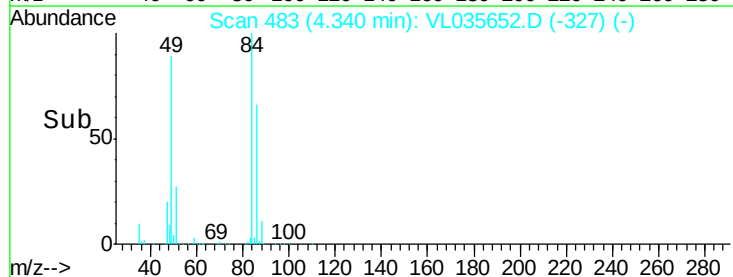
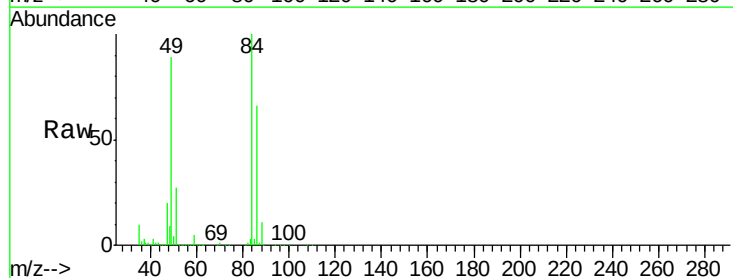
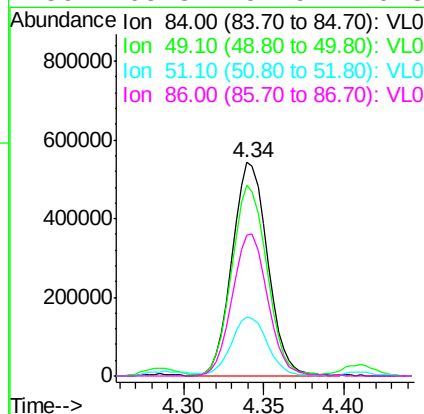
MMDadoda
 9/17/2020 1:53:12 PM

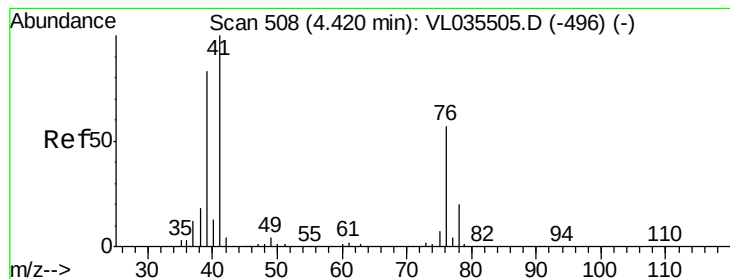


#20

Methylene Chloride
 Concen: 8.838 ppbv
 RT: 4.34 min Scan# 483
 Delta R.T. 0.00 min
 Lab File: VL035652.D
 Acq: 17 Sep 2020 8:43

Tgt Ion: 84 Resp: 818896
 Ion Ratio Lower Upper
 84 100
 49 88.4 65.4 98.0
 51 26.6 21.5 32.3
 86 65.8 52.9 79.3





#21

Allvl Chloride

Concen: 11.483 ppbv

RT: 4.41 min Scan# 505

Delta R.T. 0.01 min

Lab File: VL035652.D

Acq: 17 Sep 2020 8:43

Instrument :

MSVOA_L

ClientSampleId :

VL0916ABS01

Tot Ion: 41 Resp: 669249

Ion Ratio Lower Upper

41 100

76 57.6 46.2 69.2

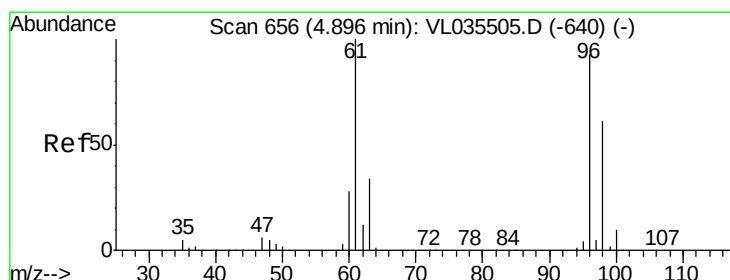
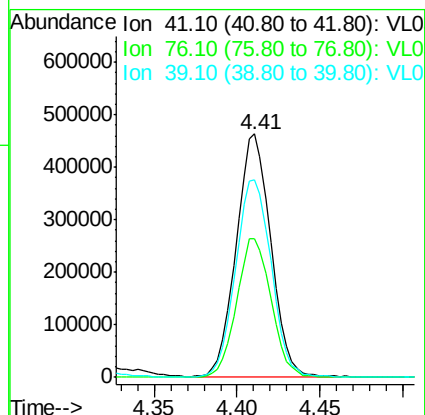
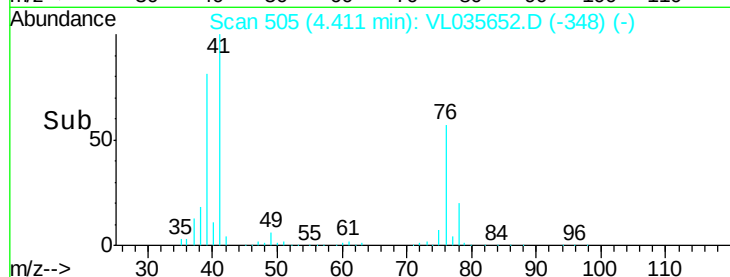
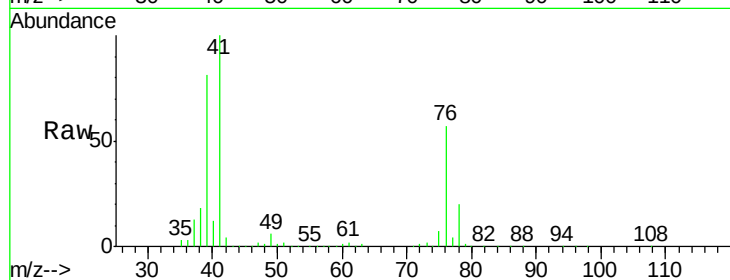
39 84.2 67.8 101.6

Manual Integrations

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#22

trans-1,2-Dichloroethene

Concen: 9.716 ppbv

RT: 4.88 min Scan# 652

Delta R.T. 0.01 min

Lab File: VL035652.D

Acq: 17 Sep 2020 8:43

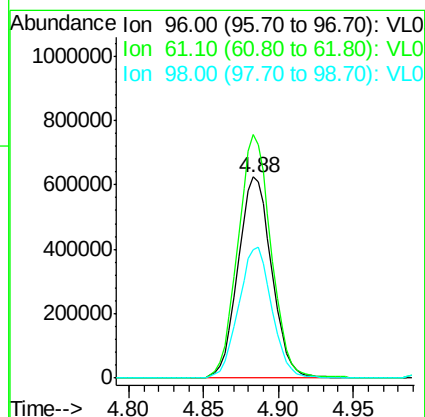
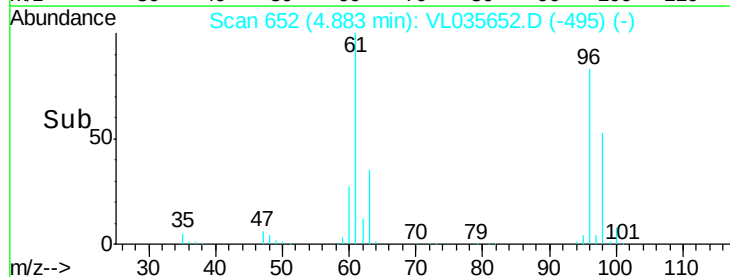
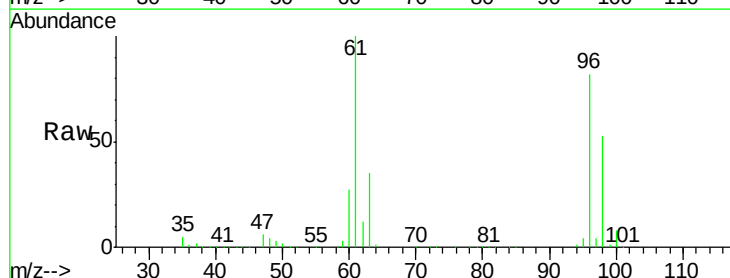
Tgt Ion: 96 Resp: 980008

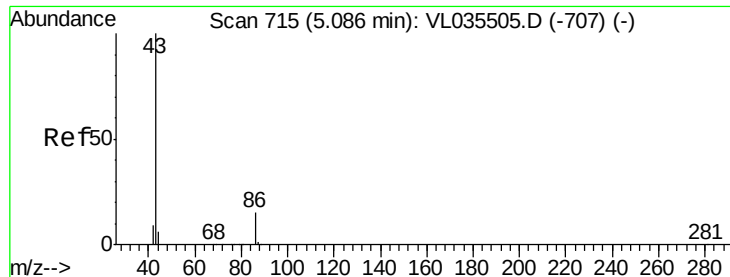
Ion Ratio Lower Upper

96 100

61 121.2 86.0 129.0

98 64.2 52.3 78.5





#23

Vinyl Acetate

Concen: 10.685 ppbv

RT: 5.08 min Scan# 712

Delta R.T. 0.01 min

Lab File: VL035652.D

Acq: 17 Sep 2020 8:43

Tot Ion: 43 Resp: 1706024

Ion Ratio Lower Upper

43 100

86 13.6 10.6 16.0

42 9.8 7.5 11.3

44 5.4 4.4 6.6

Instrument :

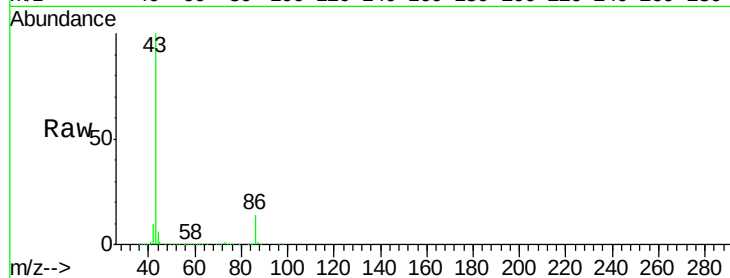
MSVOA_L

ClientSampled :

VL0916ABS01

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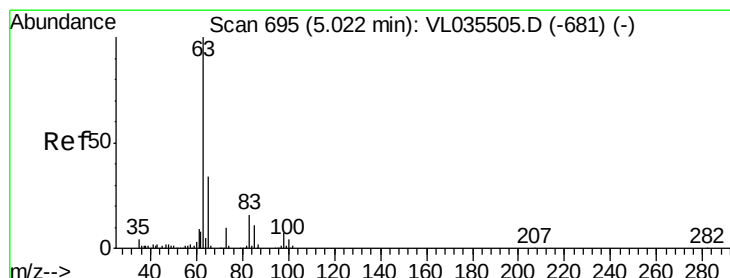
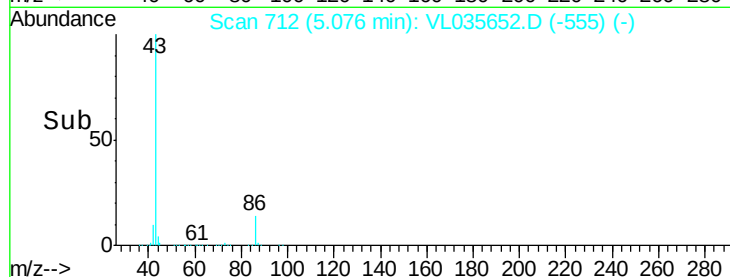
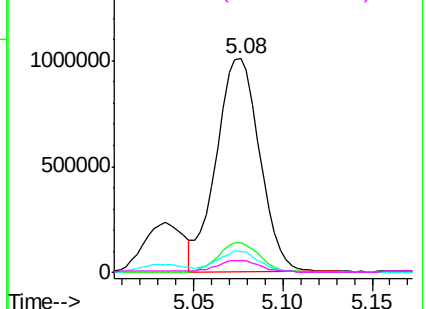


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 10.114 ppbv

RT: 5.01 min Scan# 692

Delta R.T. 0.01 min

Lab File: VL035652.D

Acq: 17 Sep 2020 8:43

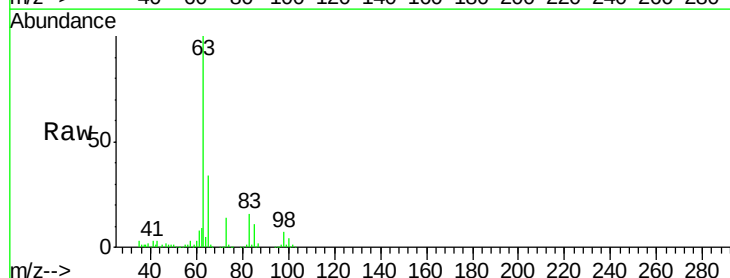
Tgt Ion: 63 Resp: 1661816

Ion Ratio Lower Upper

63 100

98 6.6 3.4 10.1

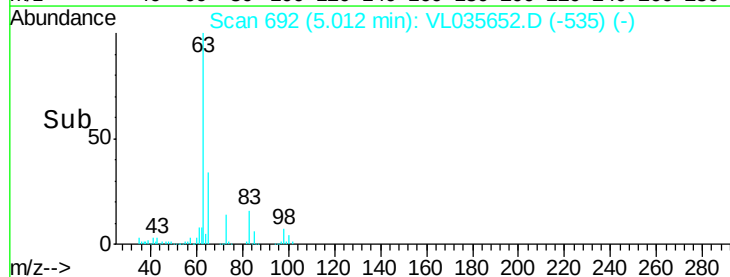
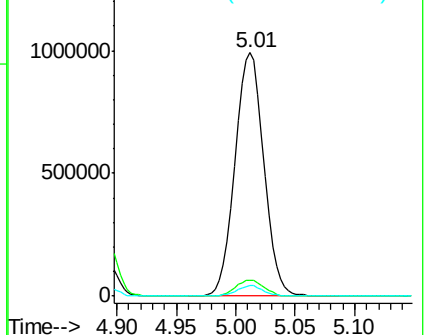
100 4.3 2.1 6.5

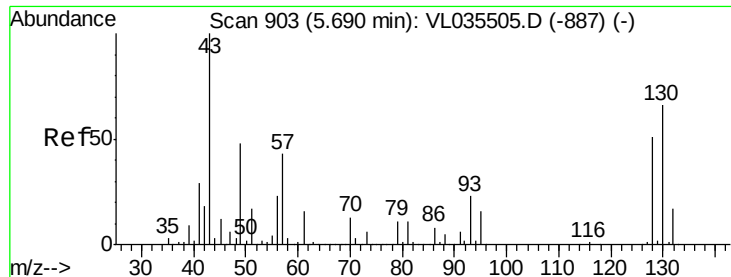


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 10.067 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.00 min

Lab File: VL035652.D

Acq: 17 Sep 2020 8:43

Instrument :

MSVOA_L

ClientSampleId :

VL0916ABS01

Tot Ion: 43 Resp: 2212434

Ion Ratio Lower Upper

43 100

45 10.7 8.4 12.6

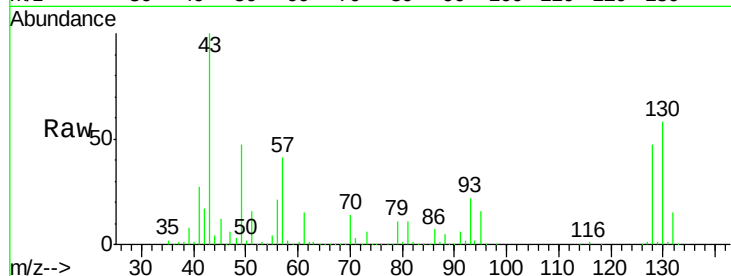
61 13.7 10.6 16.0

70 11.9 9.4 14.2

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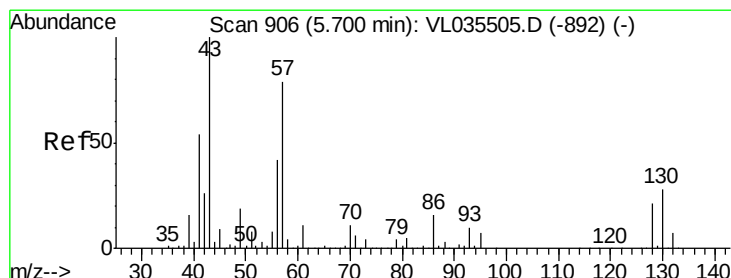
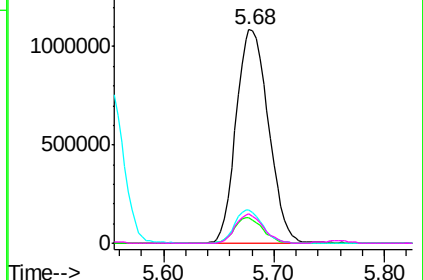
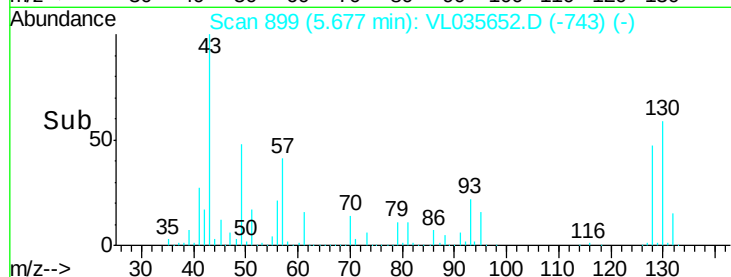


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 10.281 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.01 min

Lab File: VL035652.D

Acq: 17 Sep 2020 8:43

Tgt Ion: 57 Resp: 1280219

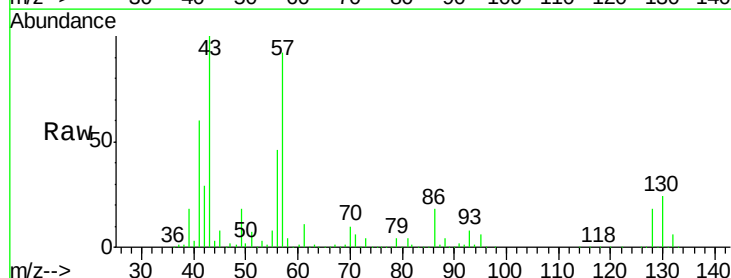
Ion Ratio Lower Upper

57 100

41 68.2 55.9 83.9

43 173.4 141.8 212.8

56 51.9 41.8 62.8

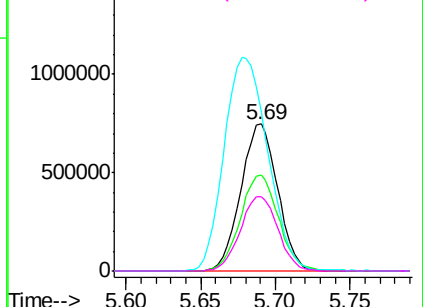
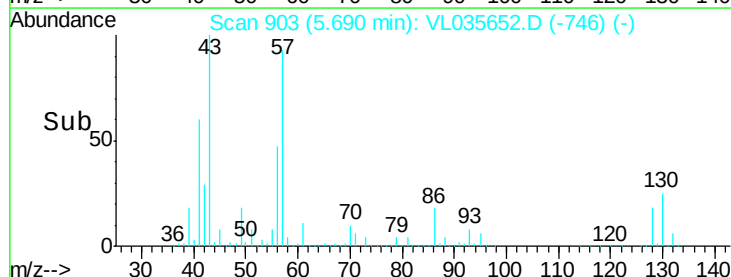


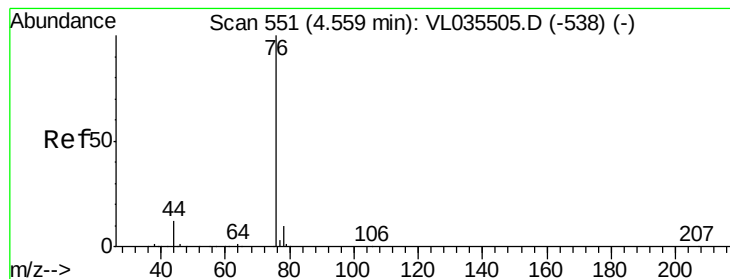
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 11.633 ppbv

RT: 4.55 min Scan# 547

Delta R.T. 0.00 min

Lab File: VL035652.D

Acq: 17 Sep 2020 8:43

Instrument :

MSVOA_L

ClientSampleId :

VL0916ABS01

Tot Ion: 76 Resp: 2078794

Ion Ratio Lower Upper

76 100

44 11.3 9.3 13.9

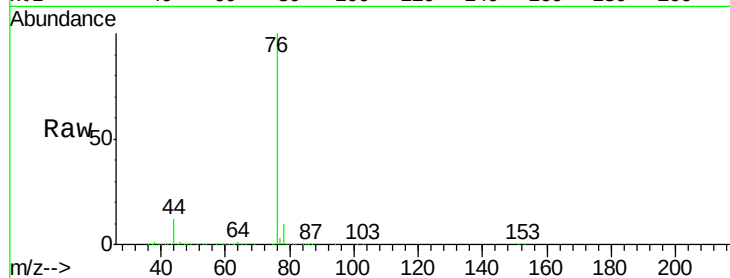
78 9.7 7.8 11.6

Manual Integrations

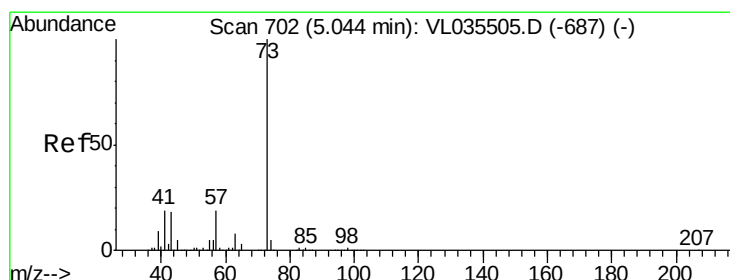
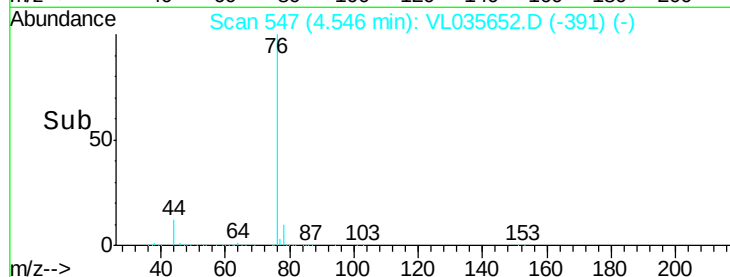
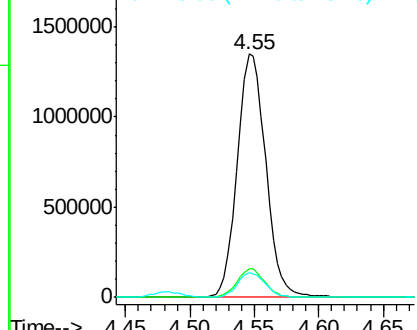
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Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 10.844 ppbv

RT: 5.03 min Scan# 699

Delta R.T. 0.01 min

Lab File: VL035652.D

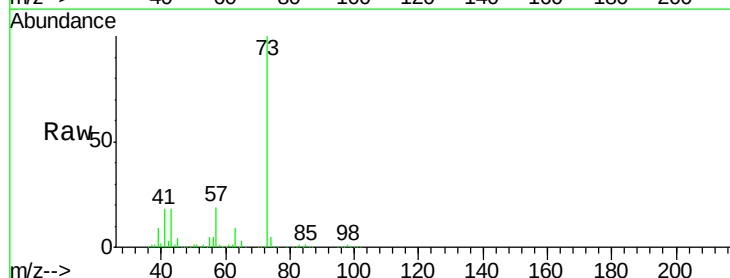
Acq: 17 Sep 2020 8:43

Tgt Ion: 73 Resp: 2353338

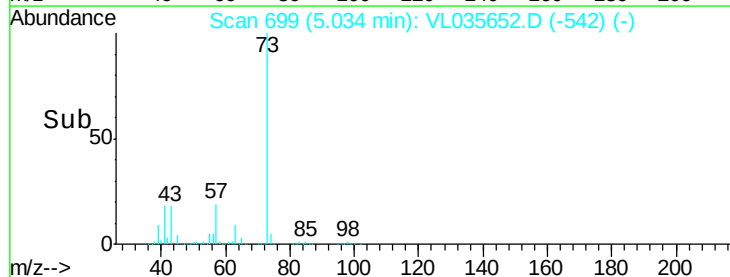
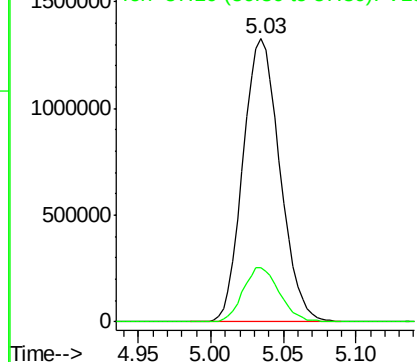
Ion Ratio Lower Upper

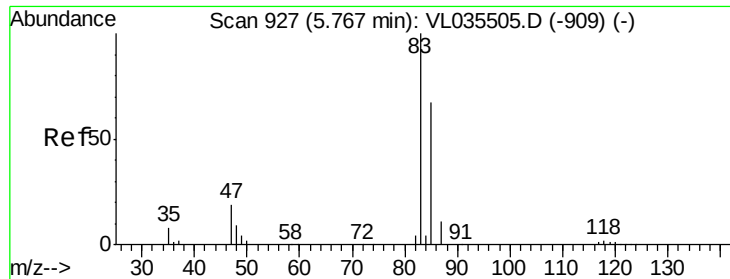
73 100

57 19.1 15.2 22.8



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





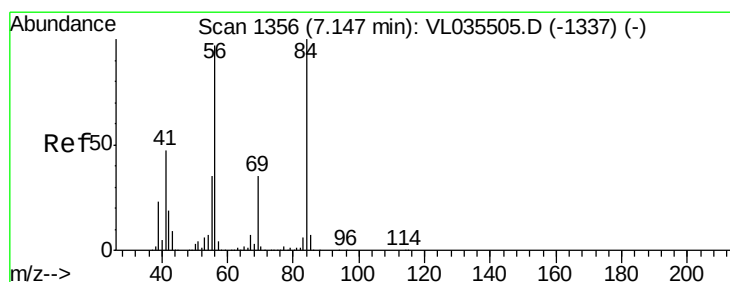
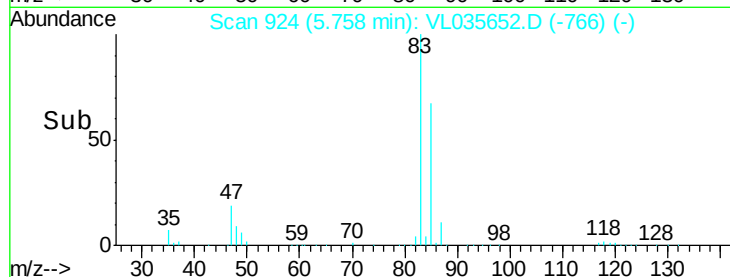
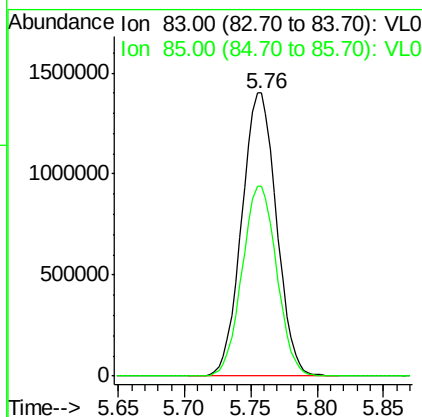
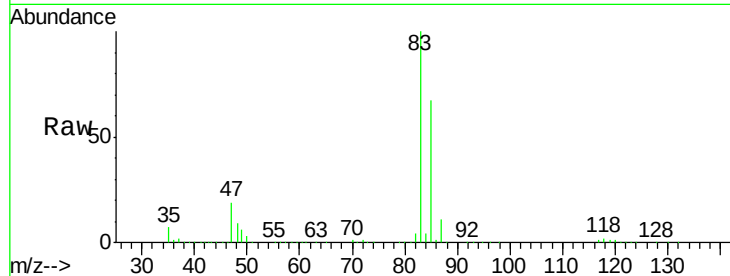
#29
Chloroform
Concen: 10.051 ppbv
RT: 5.76 min Scan# 924
Delta R.T. 0.01 min
Lab File: VL035652.D
Acq: 17 Sep 2020 8:43

Instrument :
MSVOA_L
ClientSampleId :
VL0916ABS01

Tot Ion: 83 Resp: 2550113
Ion Ratio Lower Upper
83 100
85 67.0 53.9 80.9

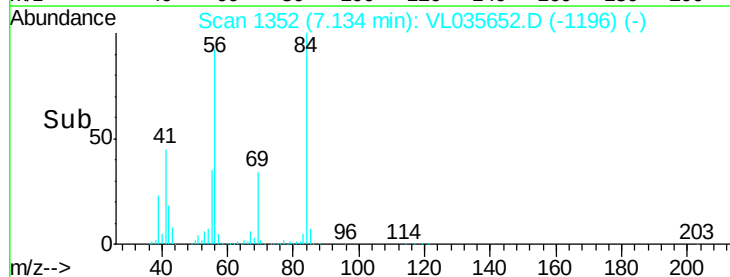
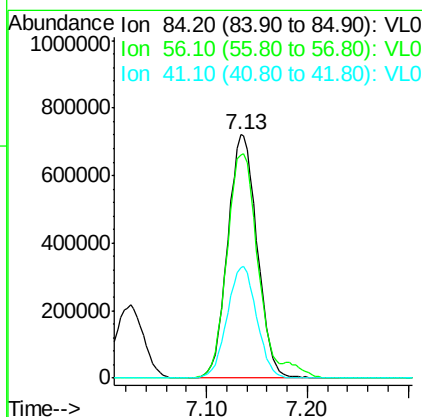
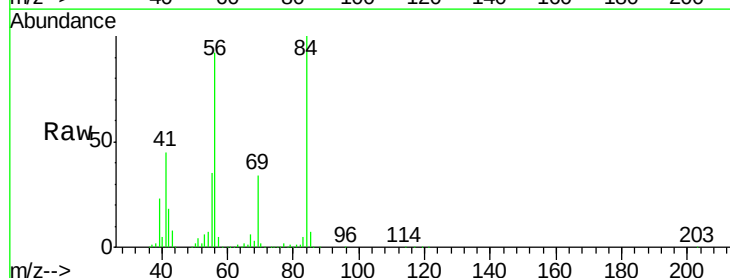
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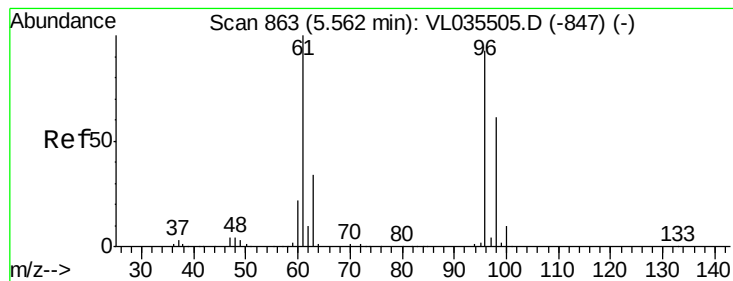
MMDadoda
9/17/2020 1:53:12 PM



#30
Cyclohexane
Concen: 10.953 ppbv
RT: 7.13 min Scan# 1352
Delta R.T. 0.00 min
Lab File: VL035652.D
Acq: 17 Sep 2020 8:43

Tgt Ion: 84 Resp: 1461102
Ion Ratio Lower Upper
84 100
56 99.6 80.1 120.1
41 46.1 38.1 57.1





#31

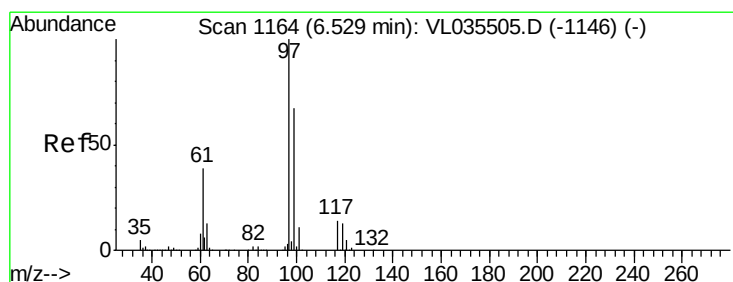
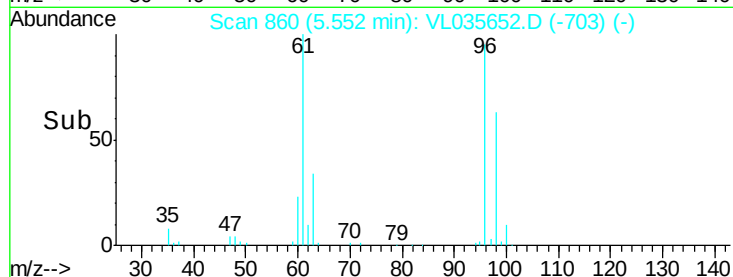
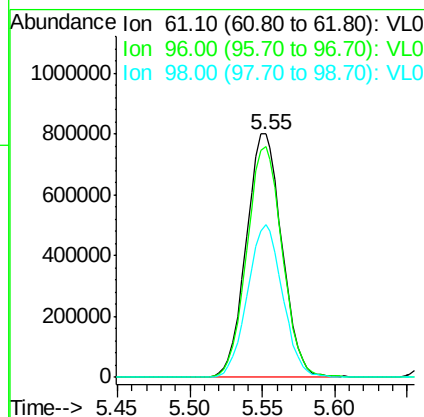
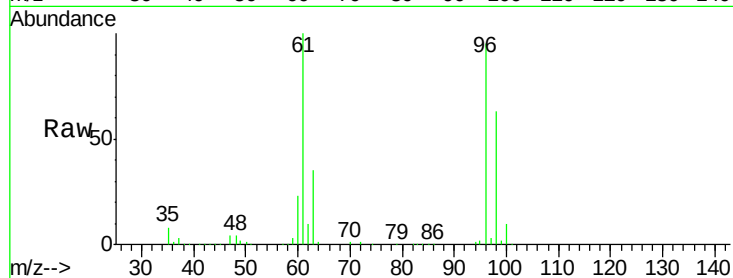
cis-1,2-Dichloroethene
Concen: 10.760 ppbv
RT: 5.55 min Scan# 860
Delta R.T. 0.01 min
Lab File: VL035652.D
Acq: 17 Sep 2020 8:43

Instrument :
MSVOA_L
ClientSampleId :
VL0916ABS01

Tot Ion: 61 Resp: 1374654
Ion Ratio Lower Upper
61 100
96 94.7 74.4 111.6
98 62.8 49.2 73.8

Manual Integrations
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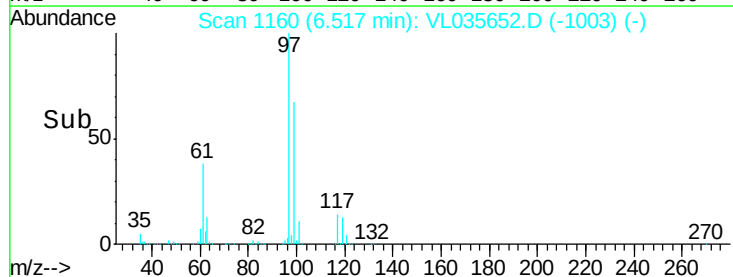
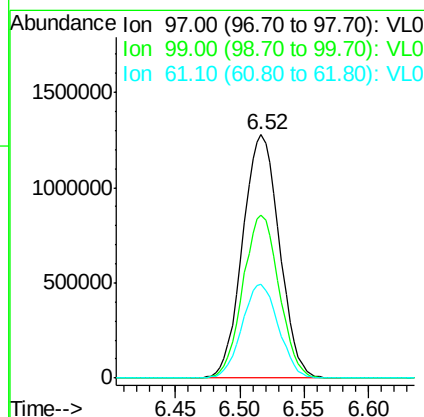
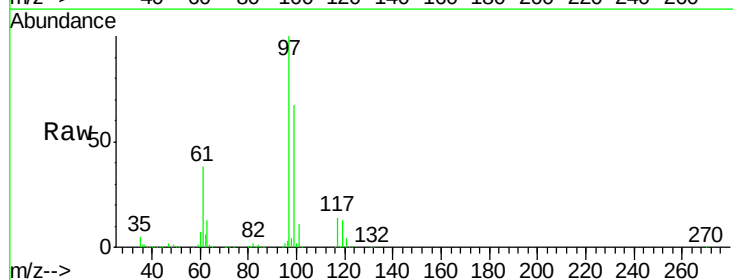
MMDadoda
9/17/2020 1:53:12 PM

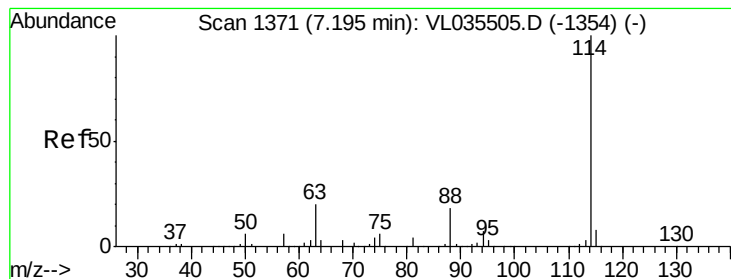


#32

1,1,1-Trichloroethane
Concen: 10.309 ppbv
RT: 6.52 min Scan# 1160
Delta R.T. 0.01 min
Lab File: VL035652.D
Acq: 17 Sep 2020 8:43

Tgt Ion: 97 Resp: 2537269
Ion Ratio Lower Upper
97 100
99 66.1 53.3 79.9
61 38.4 30.6 46.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. 0.01 min

Lab File: VL035652.D

Acq: 17 Sep 2020 8:43

Instrument :

MSVOA_L

ClientSampleId :

VL0916ABS01

Tot Ion:114 Resp: 4884306

Ion Ratio Lower Upper

114 100

63 18.8 14.7 22.1

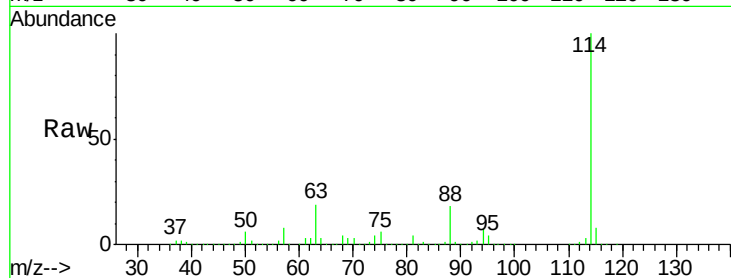
88 17.1 13.4 20.2

Manual Integrations

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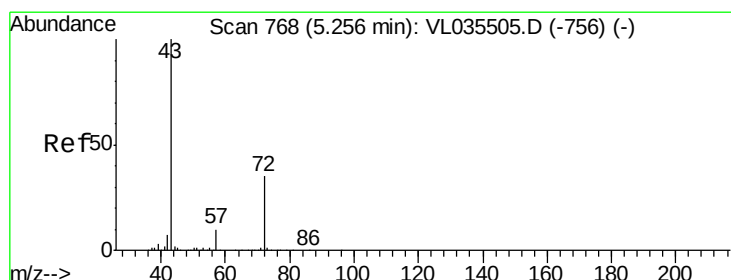
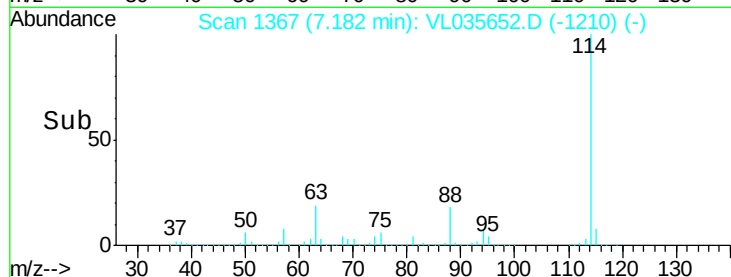
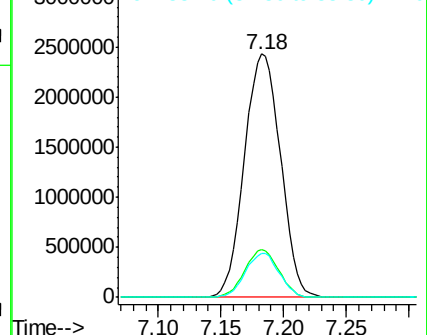
9/17/2020 1:53:12 PM



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 10.430 ppbv

RT: 5.25 min Scan# 765

Delta R.T. 0.01 min

Lab File: VL035652.D

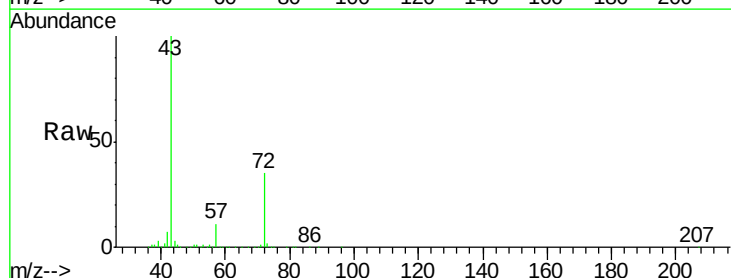
Acq: 17 Sep 2020 8:43

Tgt Ion: 43 Resp: 1511800

Ion Ratio Lower Upper

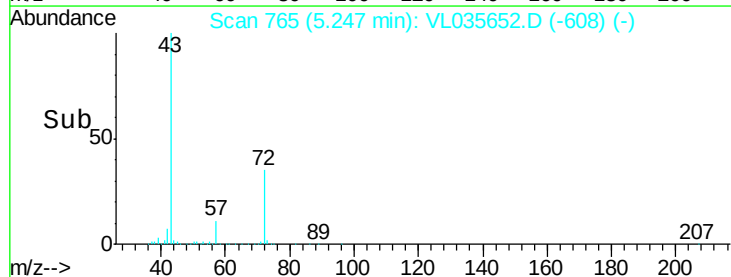
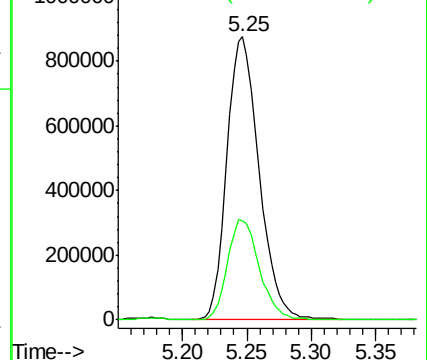
43 100

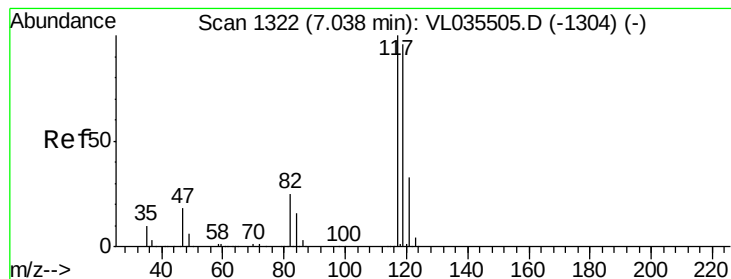
72 35.4 27.7 41.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 10.540 ppbv

RT: 7.02 min Scan# 1317

Delta R.T. 0.00 min

Lab File: VL035652.D

Acq: 17 Sep 2020 8:43

Instrument :

MSVOA_L

ClientSampleId :

VL0916ABS01

Tot Ion:117 Resp: 2587260

Ion Ratio Lower Upper

117 100

119 94.5 77.2 115.8

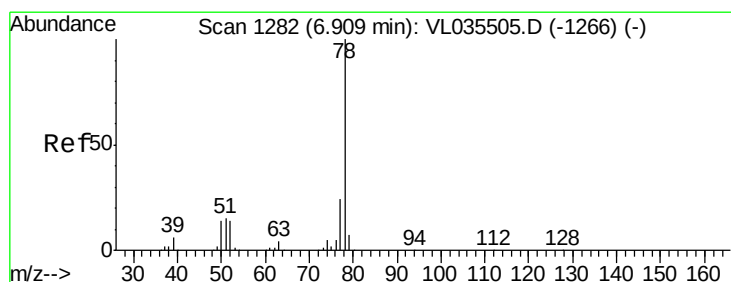
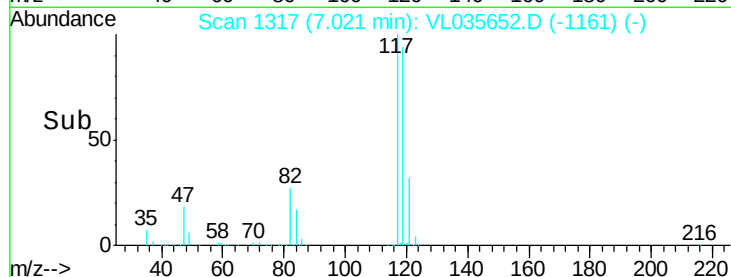
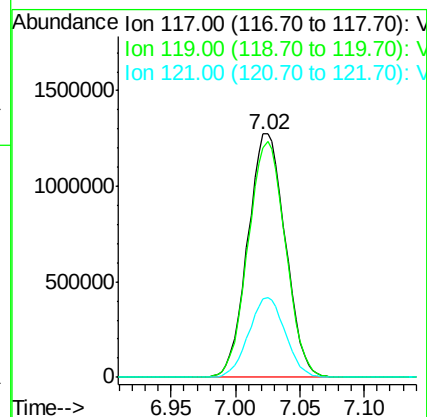
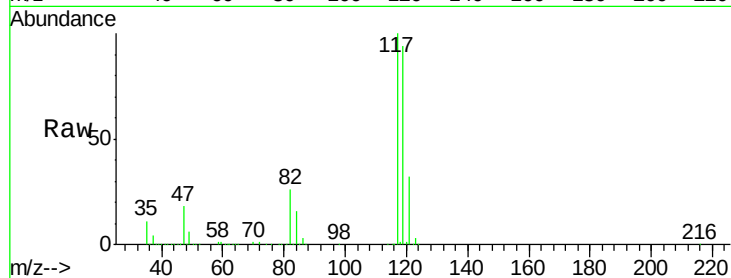
121 32.0 26.1 39.1

Manual Integrations

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#36

Benzene

Concen: 10.516 ppbv

RT: 6.90 min Scan# 1278

Delta R.T. 0.00 min

Lab File: VL035652.D

Acq: 17 Sep 2020 8:43

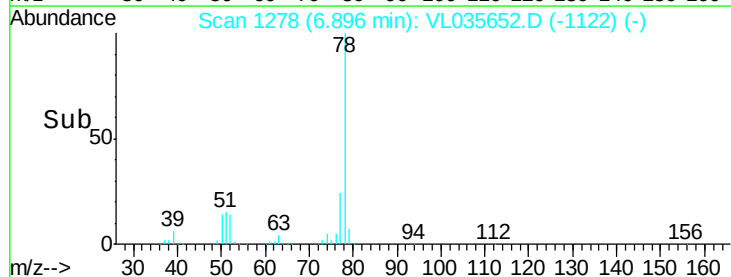
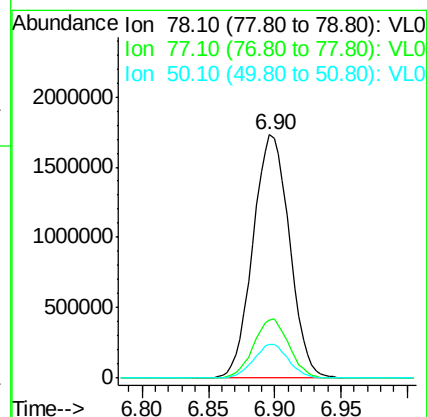
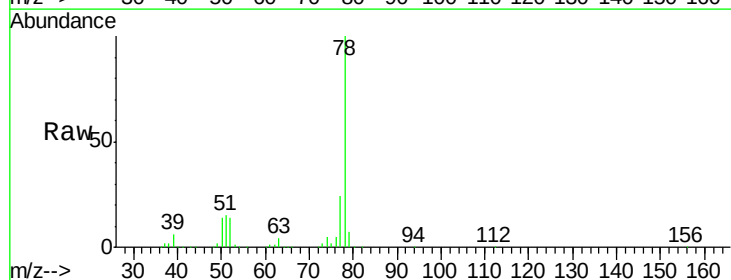
Tgt Ion: 78 Resp: 3324758

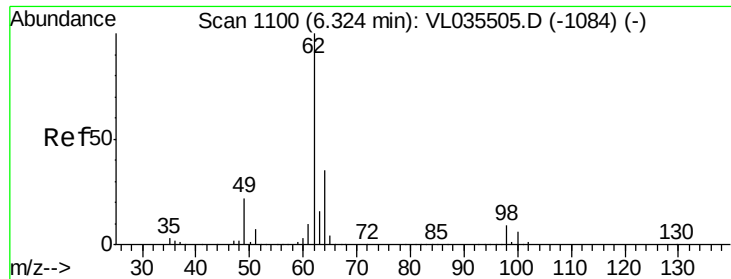
Ion Ratio Lower Upper

78 100

77 23.8 19.3 28.9

50 13.6 11.0 16.6





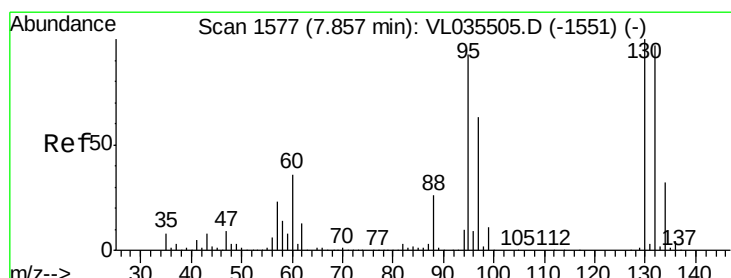
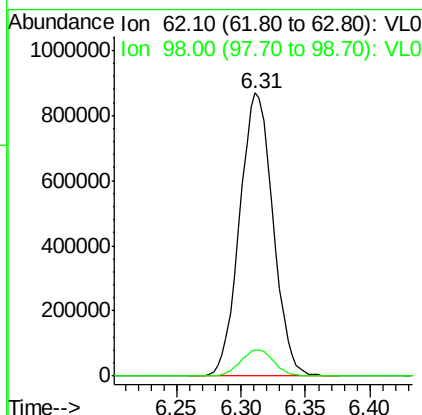
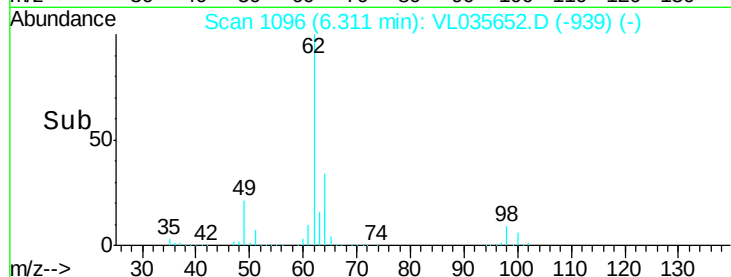
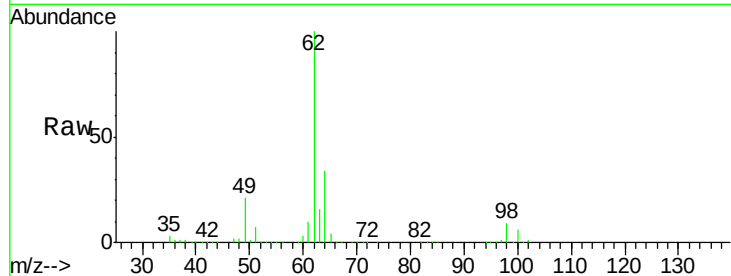
#37
 1,2-Dichloroethane
 Concen: 10.408 ppbv
 RT: 6.31 min Scan# 1096
 Delta R.T. 0.01 min
 Lab File: VL035652.D
 Acq: 17 Sep 2020 8:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0916ABS01

Tot Ion: 62 Resp: 1568806
 Ion Ratio Lower Upper
 62 100
 98 9.4 7.4 11.0

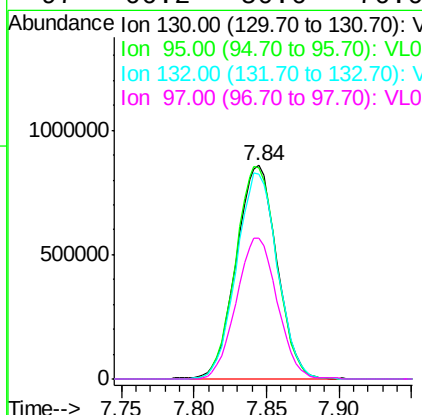
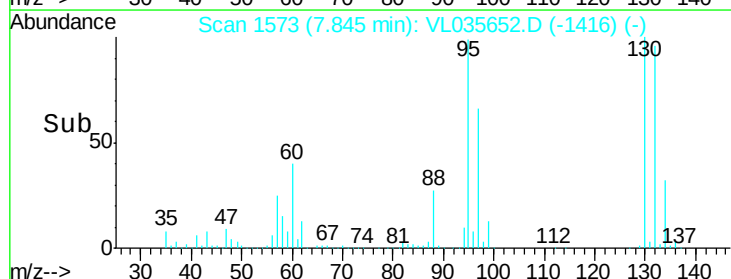
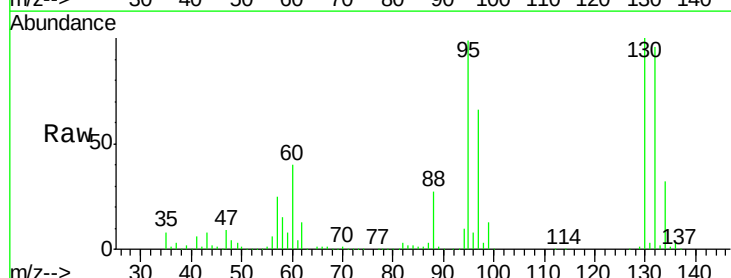
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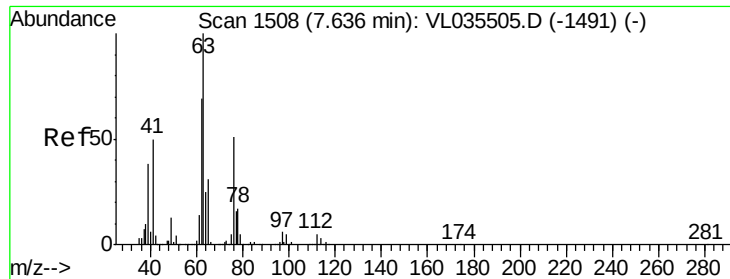
MMDadoda
 9/17/2020 1:53:12 PM



#38
 Trichloroethene
 Concen: 9.088 ppbv
 RT: 7.84 min Scan# 1573
 Delta R.T. 0.01 min
 Lab File: VL035652.D
 Acq: 17 Sep 2020 8:43

Tgt Ion:130 Resp: 1669005
 Ion Ratio Lower Upper
 130 100
 95 98.7 74.6 112.0
 132 96.2 77.6 116.4
 97 66.2 50.6 76.0





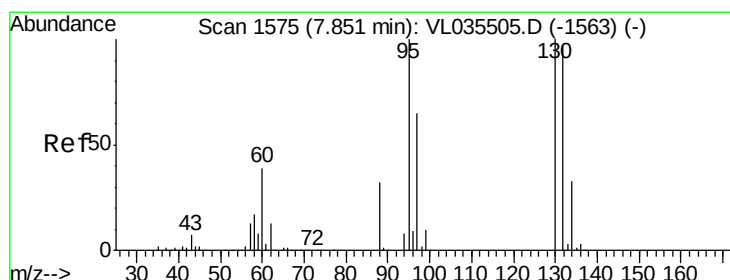
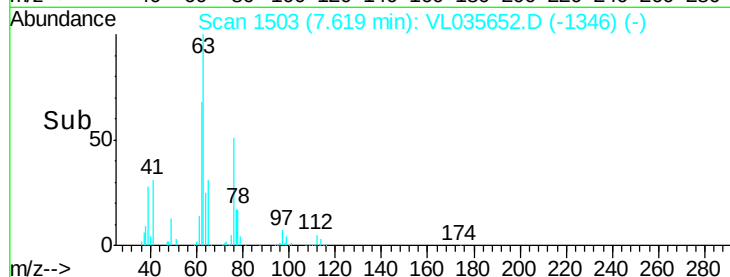
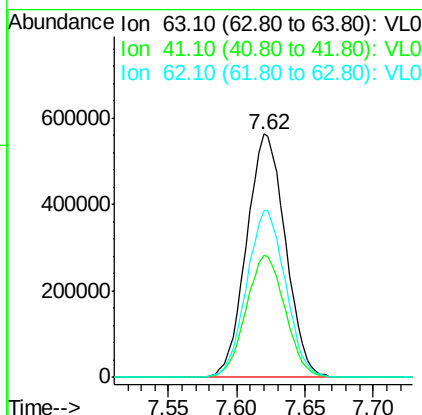
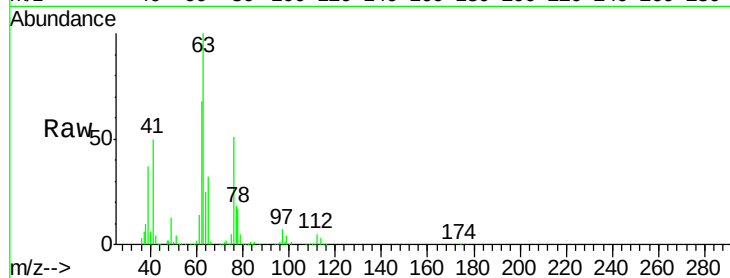
#39
 1,2-Dichloropropane
 Concen: 10.442 ppbv
 RT: 7.62 min Scan# 1503
 Delta R.T. 0.01 min
 Lab File: VL035652.D
 Acq: 17 Sep 2020 8:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0916ABS01

Tot Ion	Ratio	Lower	Upper
63	100		
41	49.9	40.0	60.0
62	68.3	55.4	83.0

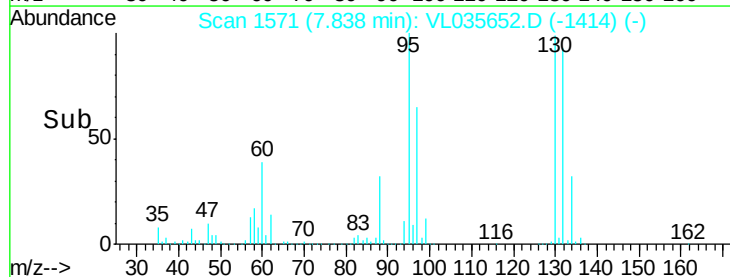
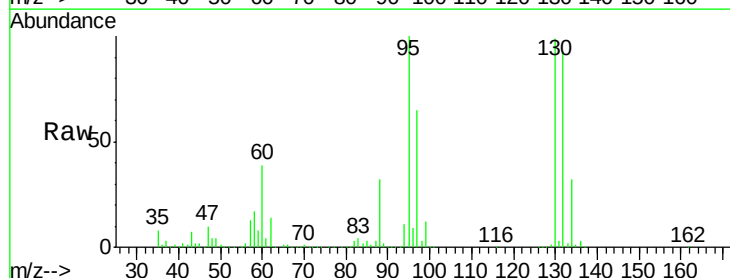
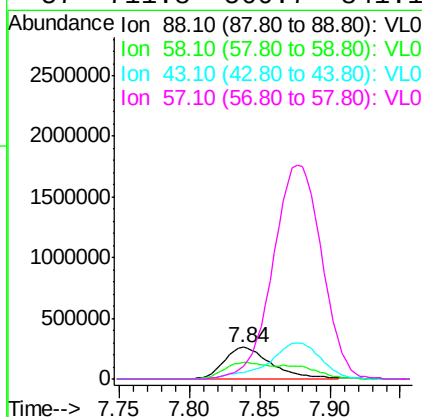
Manual Integrations
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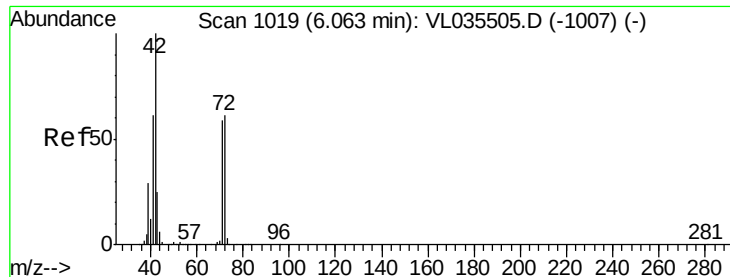
MMDadoda
 9/17/2020 1:53:12 PM



#40
 1,4-Dioxane
 Concen: 11.215 ppbv
 RT: 7.84 min Scan# 1571
 Delta R.T. 0.01 min
 Lab File: VL035652.D
 Acq: 17 Sep 2020 8:43

Tgt Ion	Ratio	Lower	Upper
88	100		
58	88.5	68.7	103.1
43	129.8	104.3	156.5
57	711.8	560.7	841.1





#41

Tetrahydrofuran

Concen: 11.190 ppbv

RT: 6.05 min Scan# 1015

Delta R.T. 0.01 min

Lab File: VL035652.D

Acq: 17 Sep 2020 8:43

Instrument :

MSVOA_L

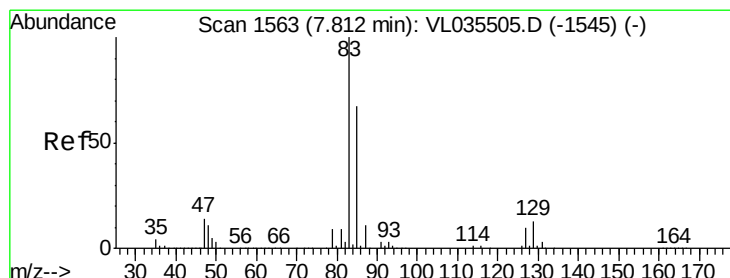
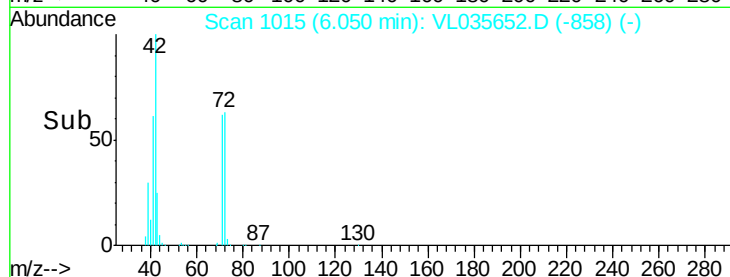
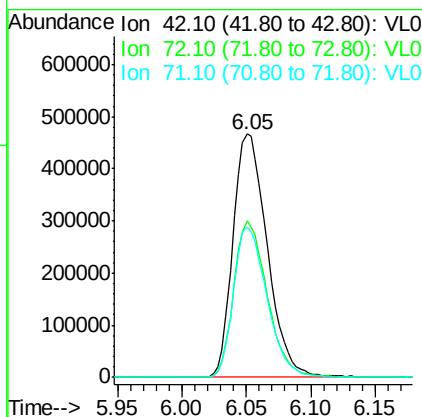
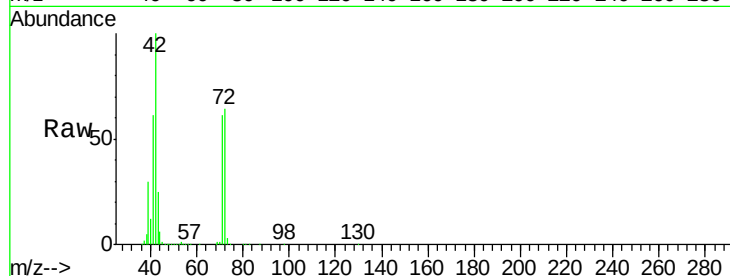
ClientSampleId :

VL0916ABS01

Tot Ion:	42	Resp:	860113
Ion Ratio		Lower	Upper
42	100		
72	63.1	48.6	73.0
71	60.5	46.1	69.1

Manual Integrations
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#42

Bromodichloromethane

Concen: 11.078 ppbv

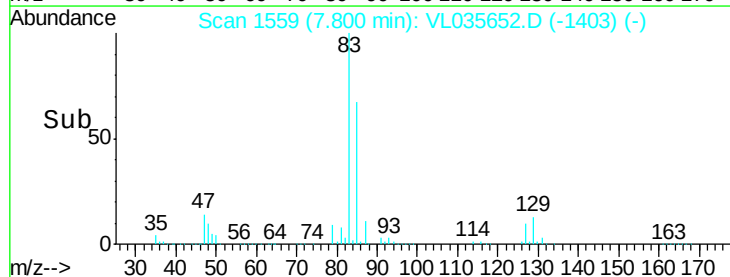
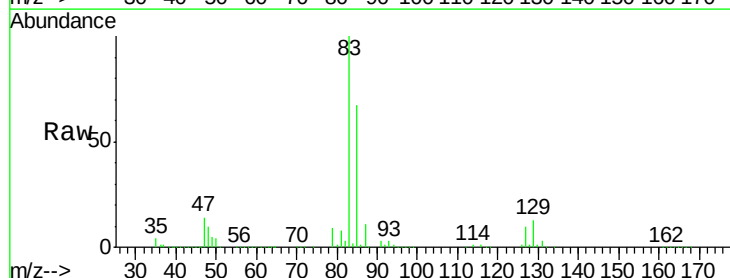
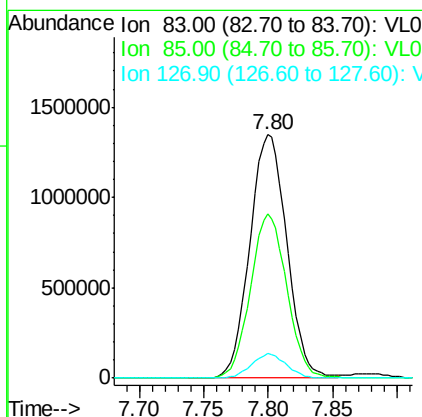
RT: 7.80 min Scan# 1559

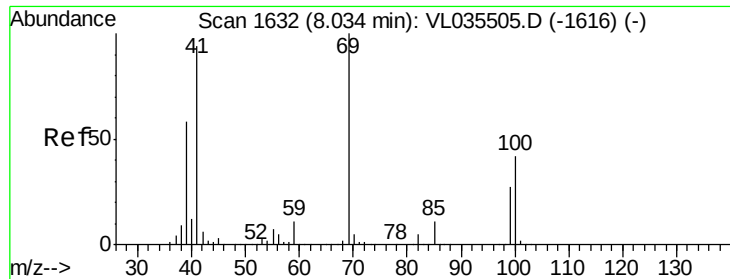
Delta R.T. 0.00 min

Lab File: VL035652.D

Acq: 17 Sep 2020 8:43

Tgt Ion:	83	Resp:	2700430
Ion Ratio		Lower	Upper
83	100		
85	67.4	53.7	80.5
127	10.0	8.1	12.1





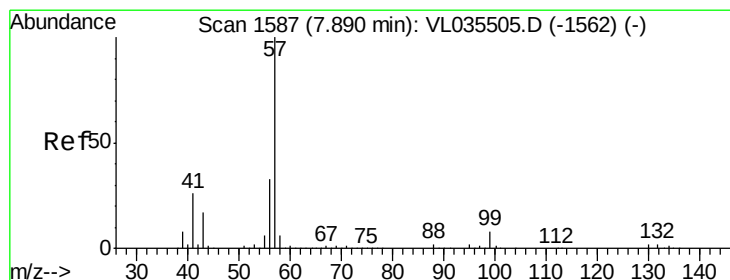
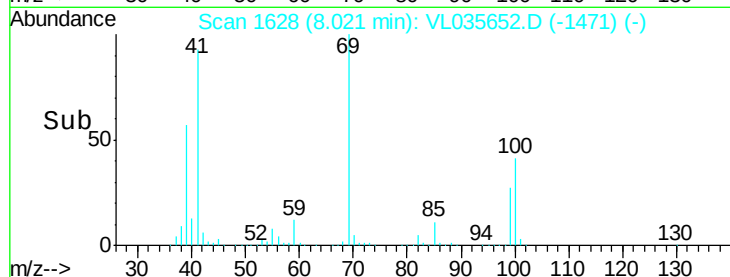
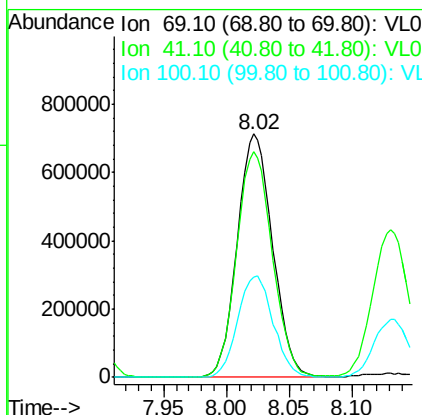
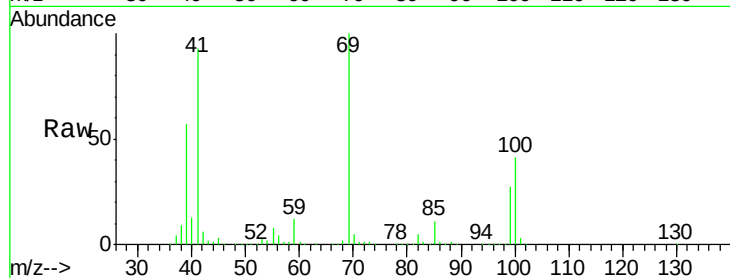
#43
Methyl Methacrylate
Concen: 11.434 ppbv
RT: 8.02 min Scan# 1628
Delta R.T. 0.01 min
Lab File: VL035652.D
Acq: 17 Sep 2020 8:43

Instrument :
MSVOA_L
ClientSampleId :
VL0916ABS01

Tot Ion: 69 Resp: 1397911
Ion Ratio Lower Upper
69 100
41 93.6 76.6 114.8
100 41.9 33.8 50.6

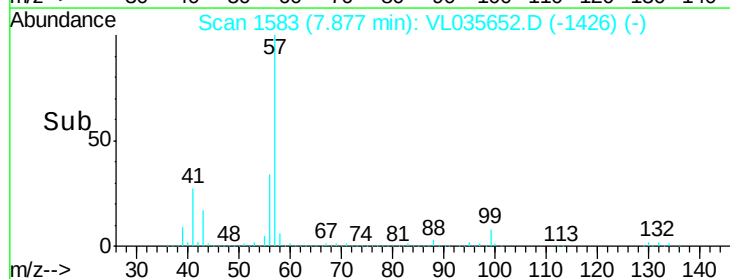
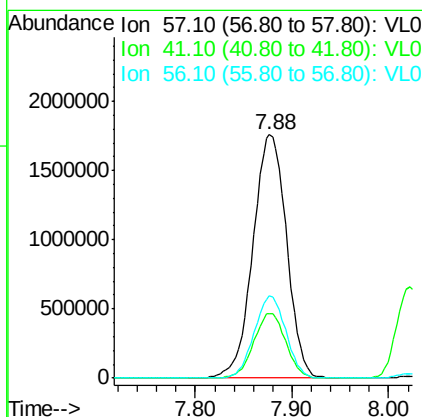
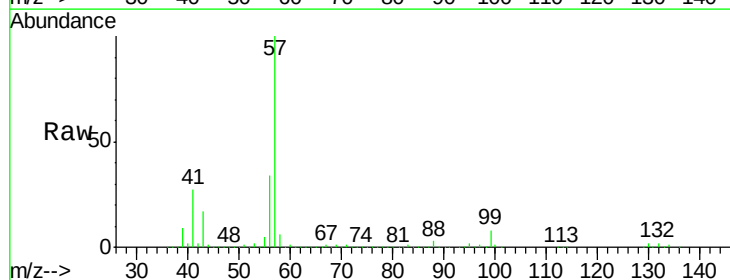
Manual Integrations
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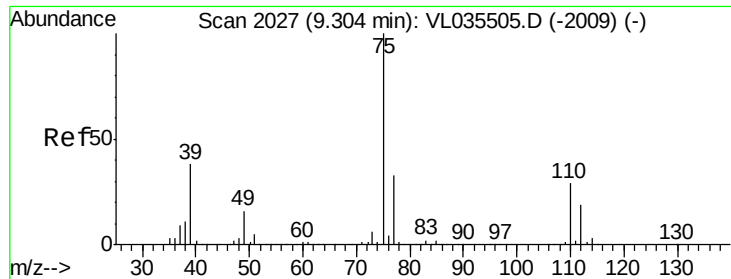
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 10.227 ppbv
RT: 7.88 min Scan# 1583
Delta R.T. 0.01 min
Lab File: VL035652.D
Acq: 17 Sep 2020 8:43

Tgt Ion: 57 Resp: 4254282
Ion Ratio Lower Upper
57 100
41 25.2 20.5 30.7
56 31.7 25.3 37.9





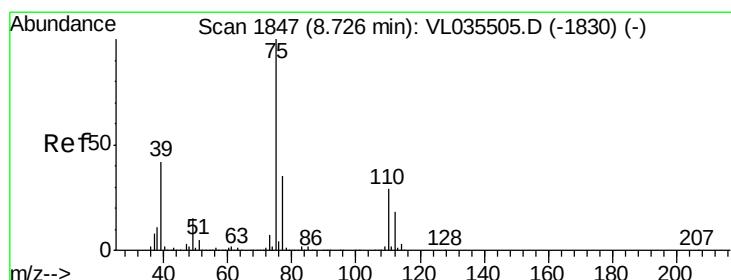
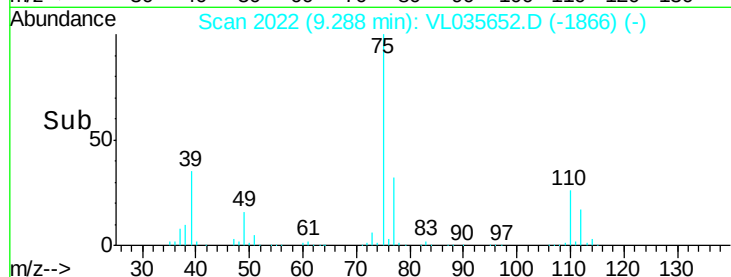
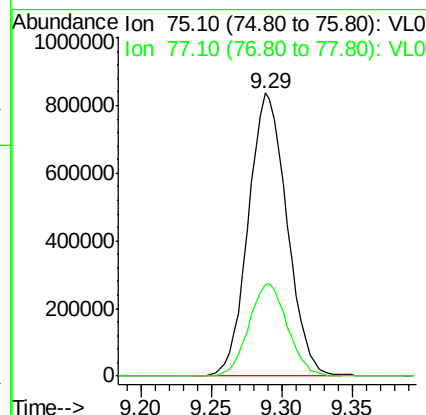
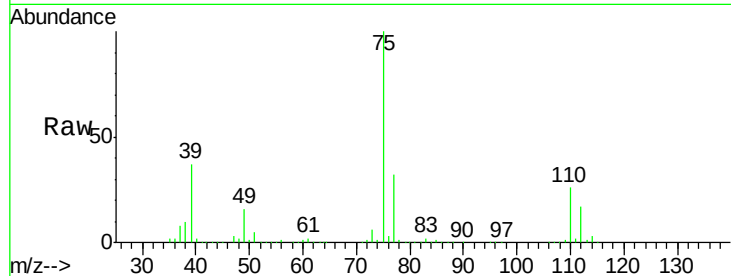
#45
 t-1,3-Dichloropropene
 Concen: 12.959 ppbv
 RT: 9.29 min Scan# 2022
 Delta R.T. 0.00 min
 Lab File: VL035652.D
 Acq: 17 Sep 2020 8:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0916ABS01

Tot Ion: 75 Resp: 1604943
 Ion Ratio Lower Upper
 75 100
 77 32.3 26.5 39.7

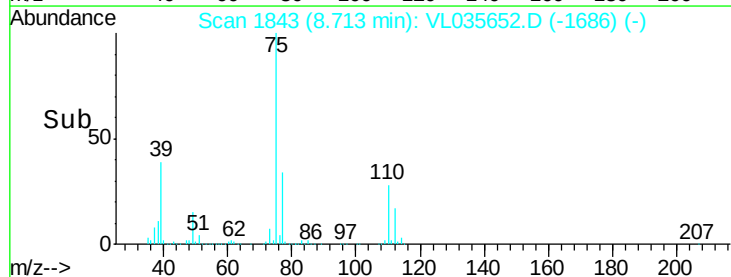
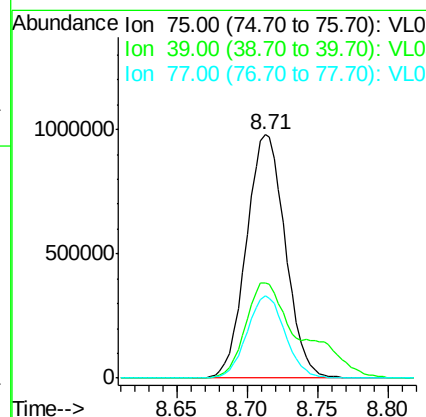
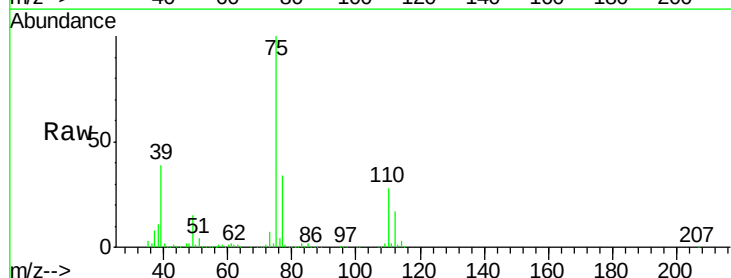
Manual Integrations
 APPROVED

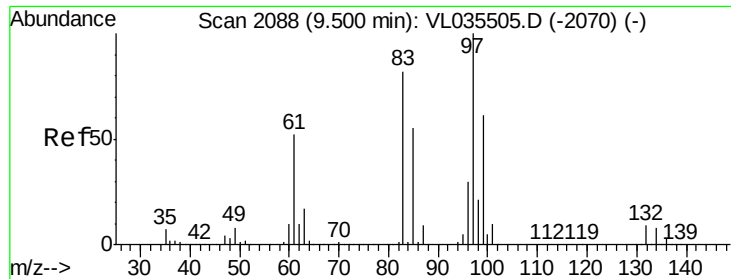
MMDadoda
 9/17/2020 1:53:12 PM



#46
 cis-1,3-Dichloropropene
 Concen: 12.312 ppbv
 RT: 8.71 min Scan# 1843
 Delta R.T. 0.01 min
 Lab File: VL035652.D
 Acq: 17 Sep 2020 8:43

Tgt Ion: 75 Resp: 1893227
 Ion Ratio Lower Upper
 75 100
 39 39.1 33.7 50.5
 77 33.8 27.8 41.6





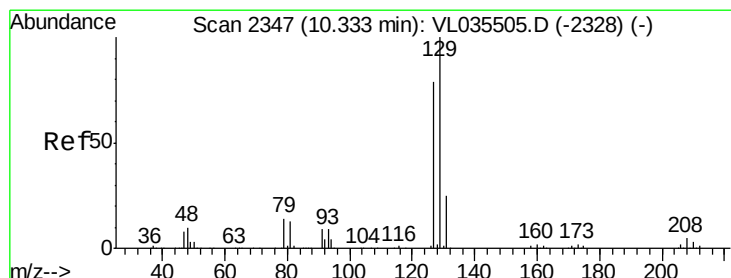
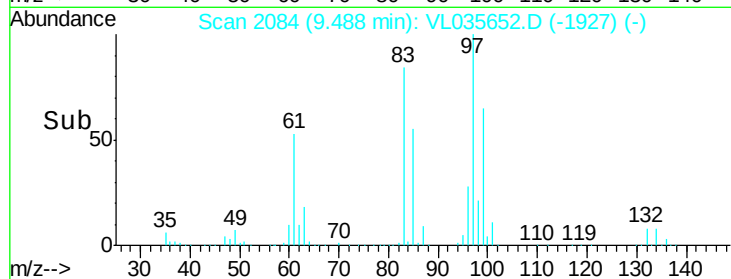
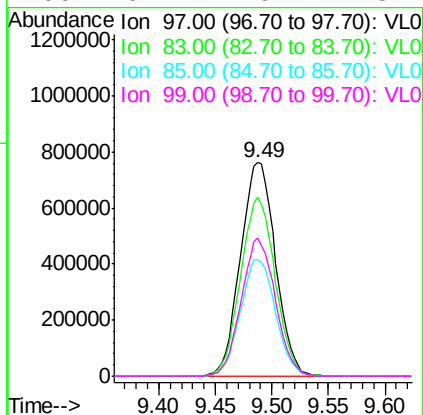
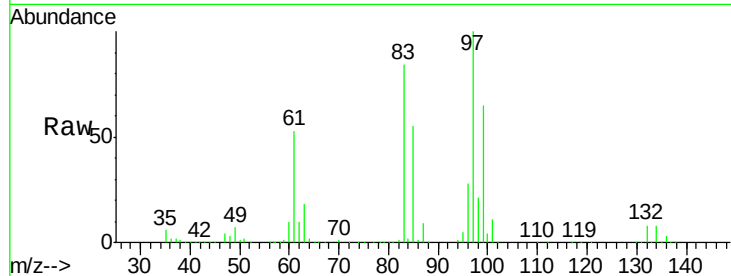
#47
 1,1,2-Trichloroethane
 Concen: 10.420 ppbv
 RT: 9.49 min Scan# 2084
 Delta R.T. 0.01 min
 Lab File: VL035652.D
 Acq: 17 Sep 2020 8:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0916ABS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	84.0	65.4	98.2
85	54.8	43.7	65.5
99	64.7	49.1	73.7

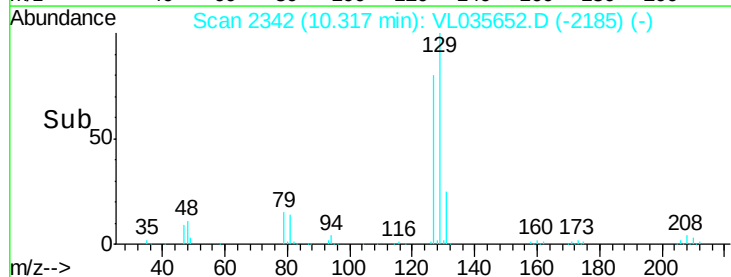
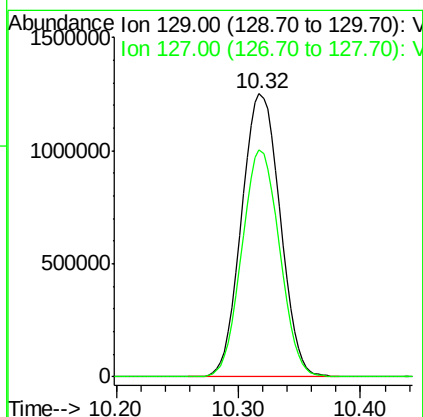
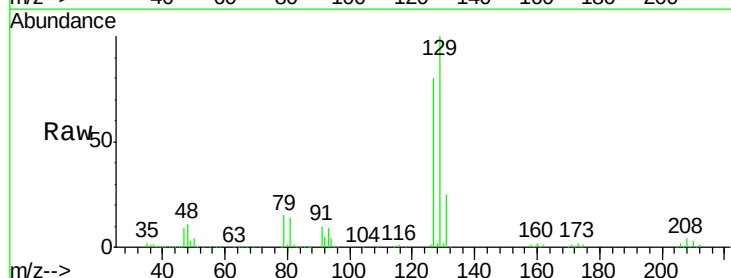
Manual Integrations
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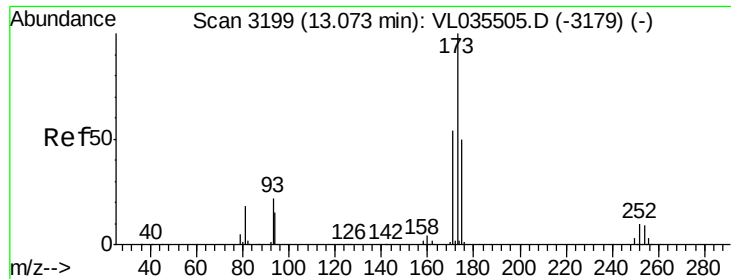
MMDadoda
 9/17/2020 1:53:12 PM



#48
 Dibromochloromethane
 Concen: 11.027 ppbv
 RT: 10.32 min Scan# 2342
 Delta R.T. 0.01 min
 Lab File: VL035652.D
 Acq: 17 Sep 2020 8:43

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.6	39.3	117.8





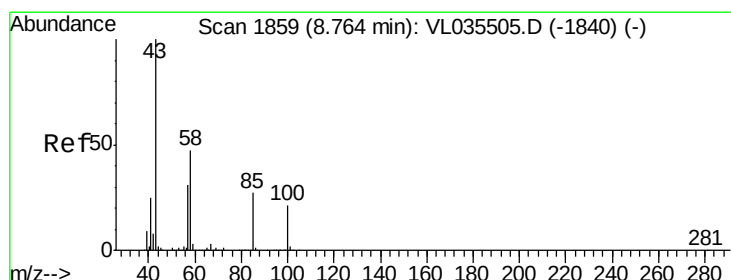
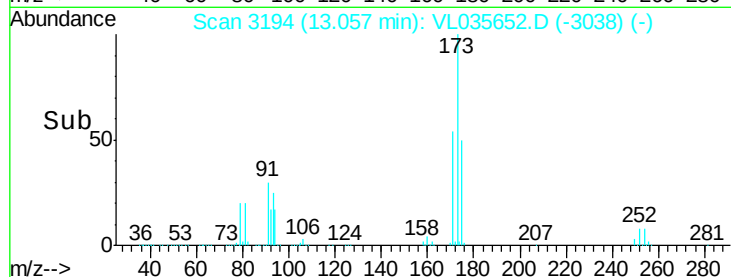
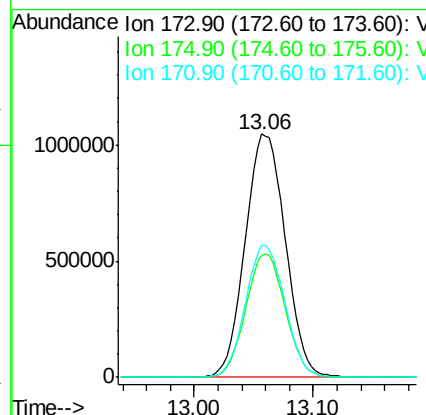
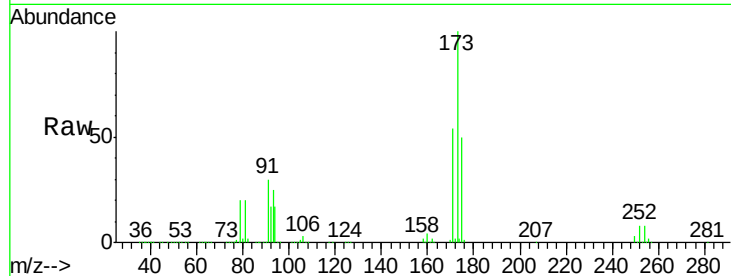
#49
Bromoform
Concen: 10.887 ppbv
RT: 13.06 min Scan# 3194
Delta R.T. 0.00 min
Lab File: VL035652.D
Acq: 17 Sep 2020 8:43

Instrument :
MSVOA_L
ClientSampleId :
VL0916ABS01

Tot Ion:173 Resp: 2447200
Ion Ratio Lower Upper
173 100
175 50.1 39.8 59.8
171 53.3 42.4 63.6

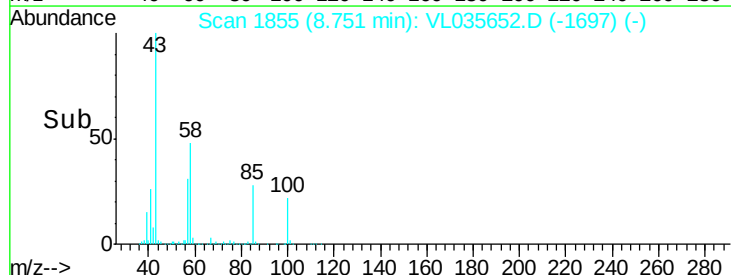
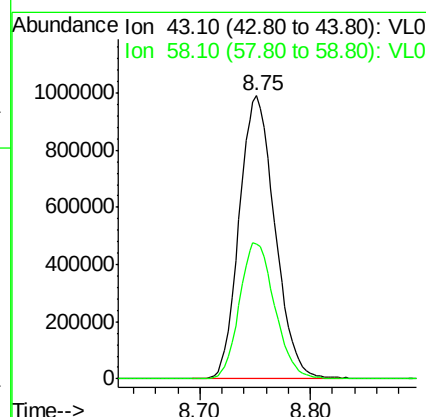
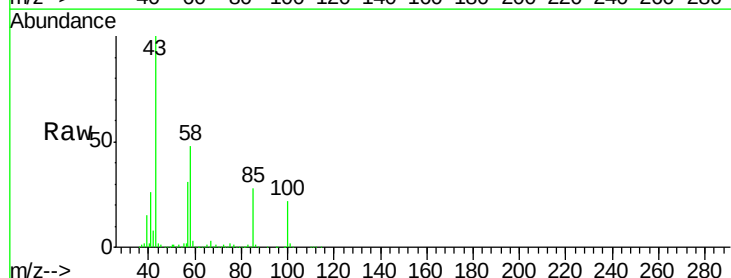
Manual Integrations
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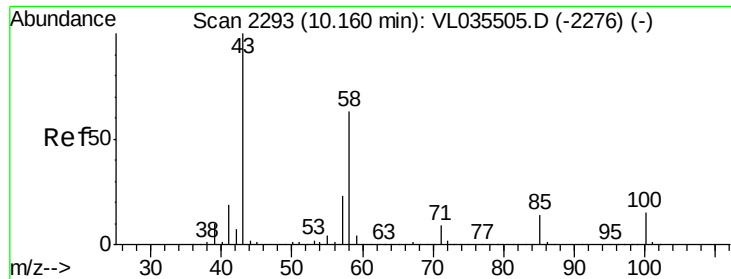
MMDadoda
9/17/2020 1:53:12 PM



#50
4-Methyl-2-Pentanone
Concen: 10.551 ppbv
RT: 8.75 min Scan# 1855
Delta R.T. 0.01 min
Lab File: VL035652.D
Acq: 17 Sep 2020 8:43

Tgt Ion: 43 Resp: 2214693
Ion Ratio Lower Upper
43 100
58 47.8 37.4 56.0





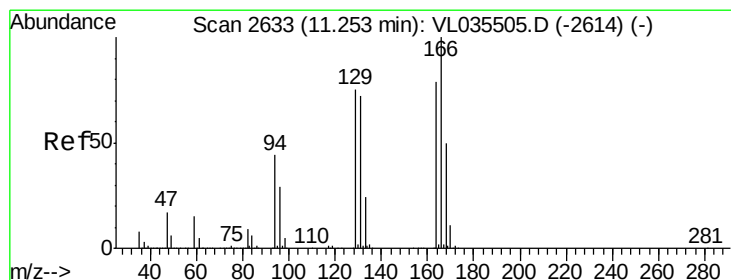
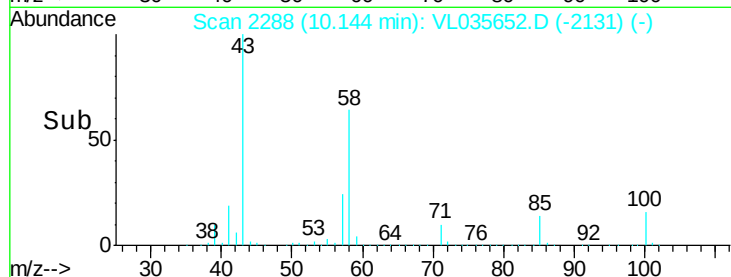
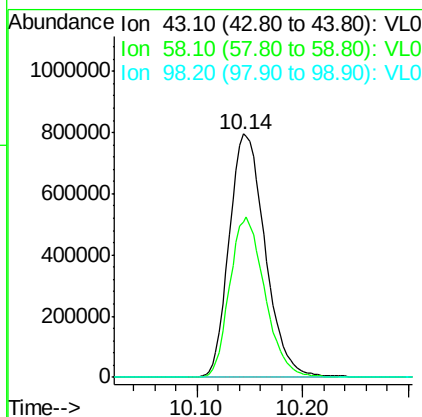
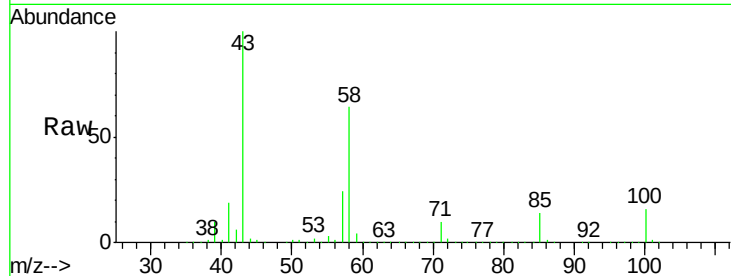
#51
2-Hexanone
Concen: 10.924 ppbv
RT: 10.14 min Scan# 2288
Delta R.T. 0.01 min
Lab File: VL035652.D
Acq: 17 Sep 2020 8:43

Instrument :
MSVOA_L
ClientSampleId :
VL0916ABS01

Tot Ion: 43 Resp: 1880940
Ion Ratio Lower Upper
43 100
58 64.6 50.2 75.4
98 0.4 0.4 0.6

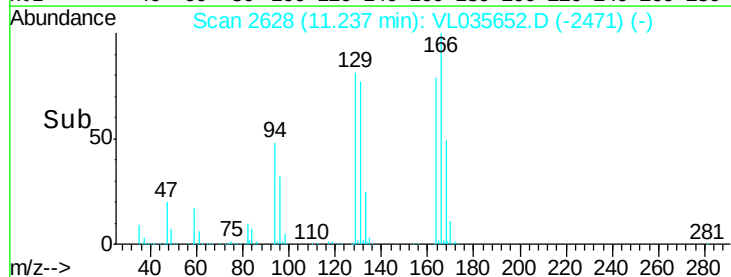
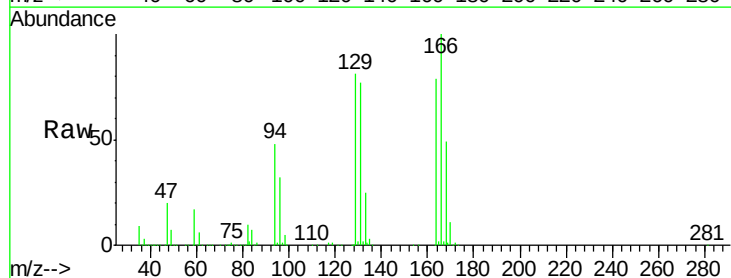
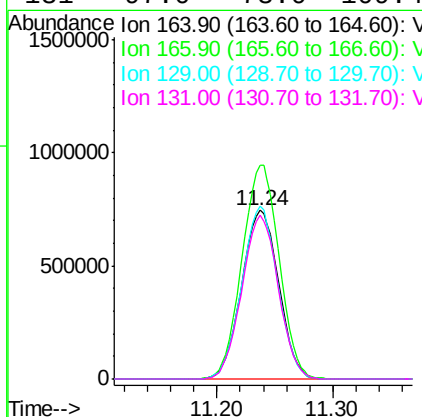
Manual Integrations
APPROVED

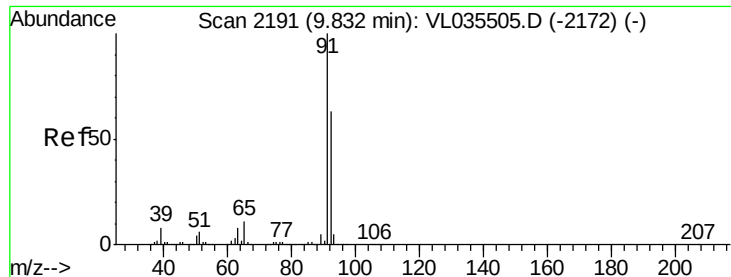
MMDadoda
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#52
Tetrachloroethene
Concen: 8.976 ppbv
RT: 11.24 min Scan# 2628
Delta R.T. 0.01 min
Lab File: VL035652.D
Acq: 17 Sep 2020 8:43

Tgt Ion: 164 Resp: 1657929
Ion Ratio Lower Upper
164 100
166 126.4 100.9 151.3
129 102.1 75.3 112.9
131 97.0 73.0 109.4





#53

Toluene

Concen: 10.588 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. 0.01 min

Lab File: VL035652.D

Acq: 17 Sep 2020 8:43

Instrument :

MSVOA_L

ClientSampleId :

VL0916ABS01

Tot Ion: 91 Resp: 4209558

Ion Ratio Lower Upper

91 100

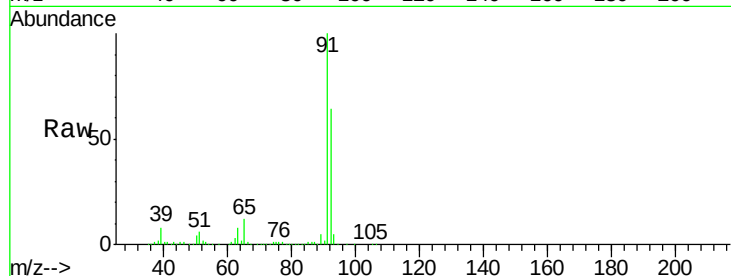
92 63.0 49.8 74.8

Manual Integrations

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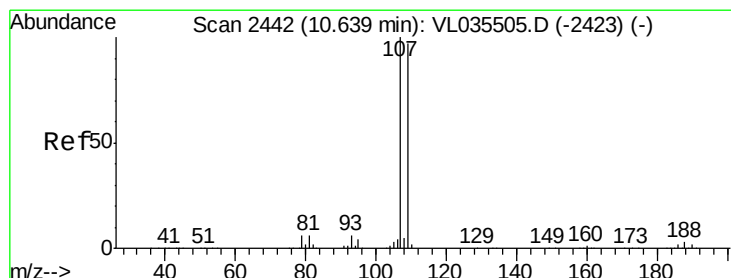
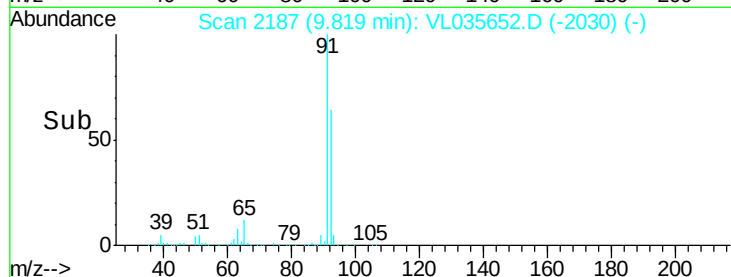
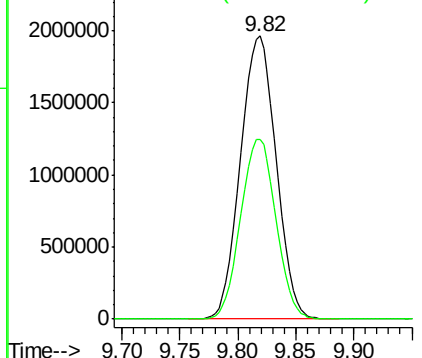
MMDadoda

9/17/2020 1:53:12 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 10.448 ppbv

RT: 10.63 min Scan# 2438

Delta R.T. 0.01 min

Lab File: VL035652.D

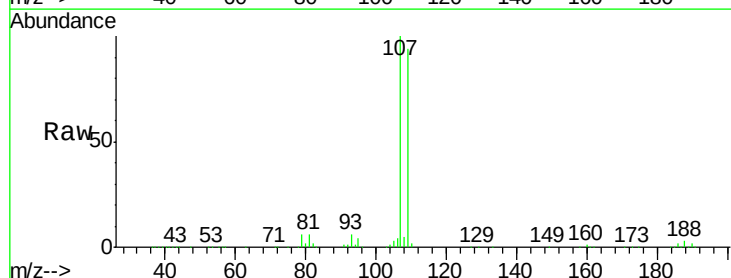
Acq: 17 Sep 2020 8:43

Tgt Ion: 107 Resp: 2601770

Ion Ratio Lower Upper

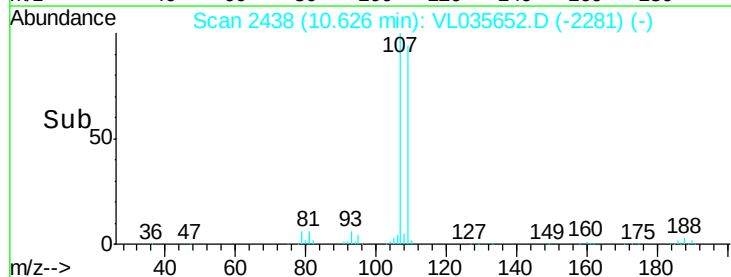
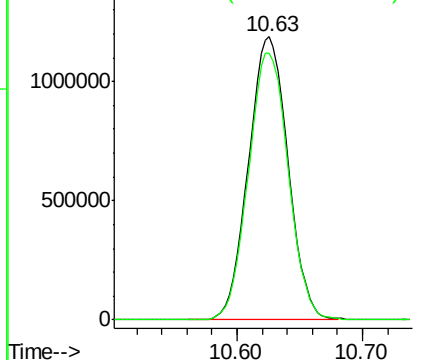
107 100

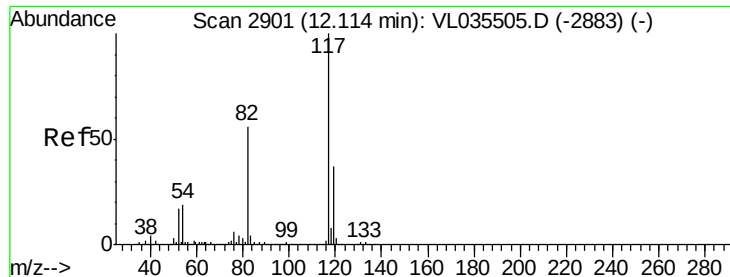
109 94.2 77.8 116.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





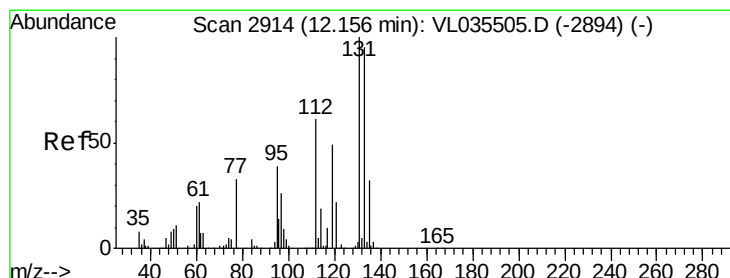
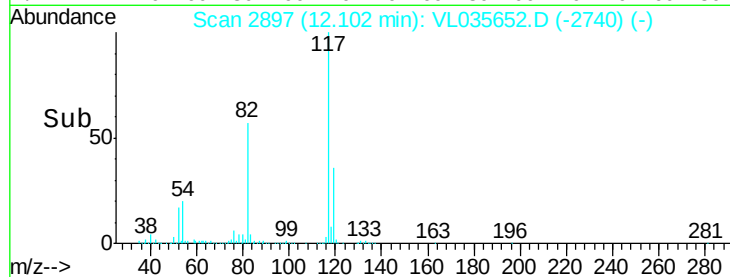
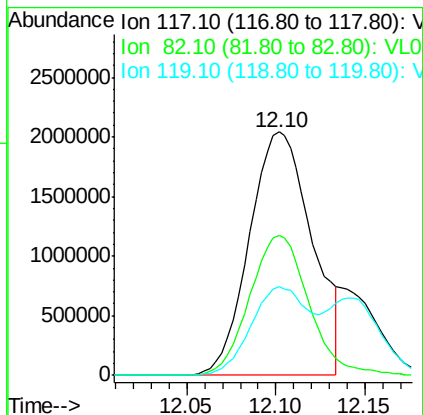
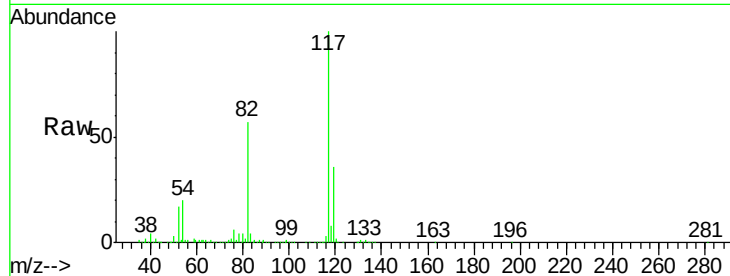
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.10 min Scan# 2897
Delta R.T. 0.01 min
Lab File: VL035652.D
Acq: 17 Sep 2020 8:43

Instrument :
MSVOA_L
ClientSampleId :
VL0916ABS01

Tot Ion:117 Resp: 5014673
Ion Ratio Lower Upper
117 100
82 54.1 41.6 62.4
119 36.0 29.3 43.9

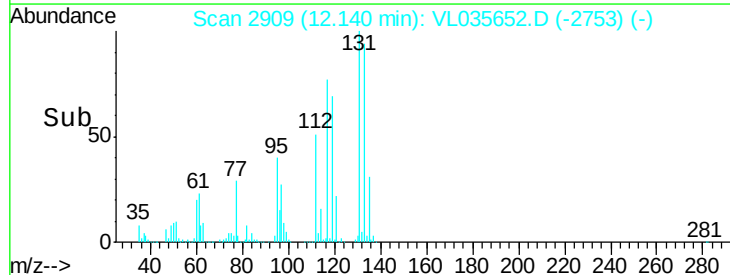
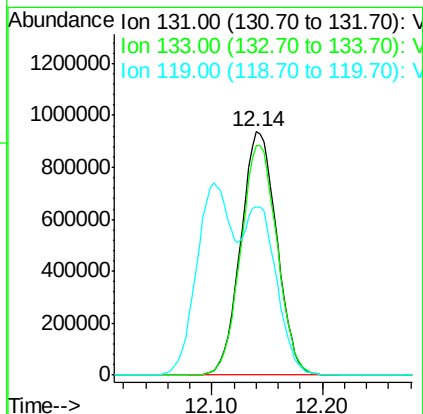
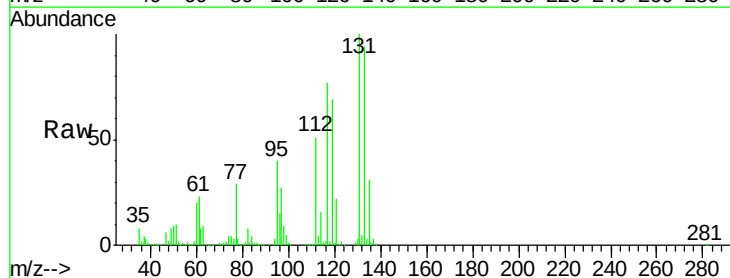
Manual Integrations
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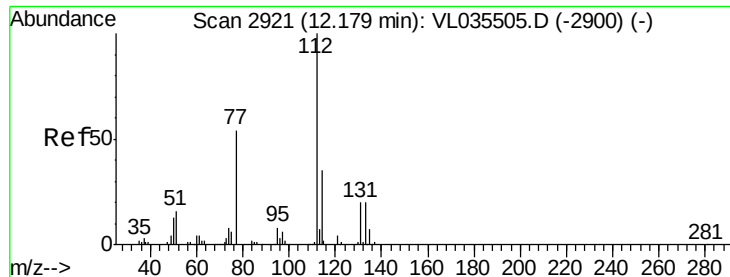
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 10.395 ppbv
RT: 12.14 min Scan# 2909
Delta R.T. 0.00 min
Lab File: VL035652.D
Acq: 17 Sep 2020 8:43

Tgt Ion:131 Resp: 2120961
Ion Ratio Lower Upper
131 100
133 95.3 76.6 115.0
119 63.6 51.6 77.4





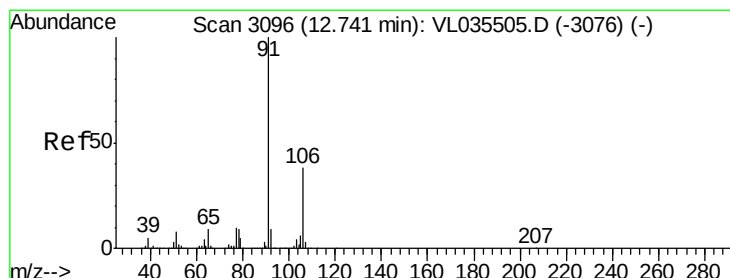
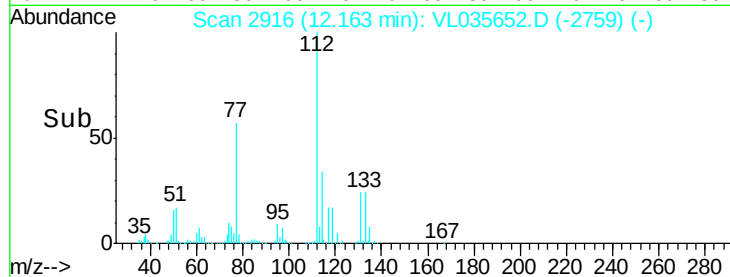
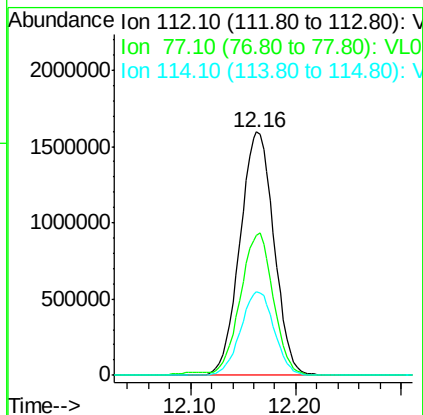
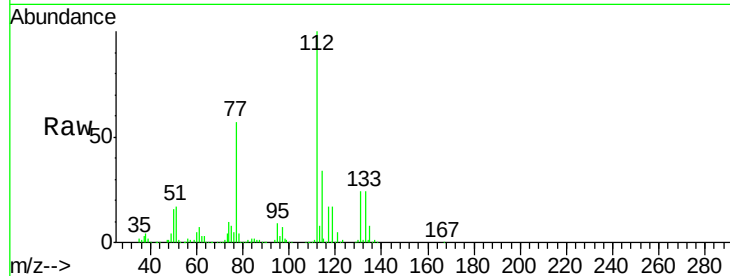
#57
Chlorobenzene
Concen: 9.681 ppbv
RT: 12.16 min Scan# 2916
Delta R.T. 0.01 min
Lab File: VL035652.D
Acq: 17 Sep 2020 8:43

Instrument :
MSVOA_L
ClientSampleId :
VL0916ABS01

Tot Ion	Ratio	Lower	Upper
112	100		
77	57.3	44.2	66.4
114	34.2	31.6	38.6

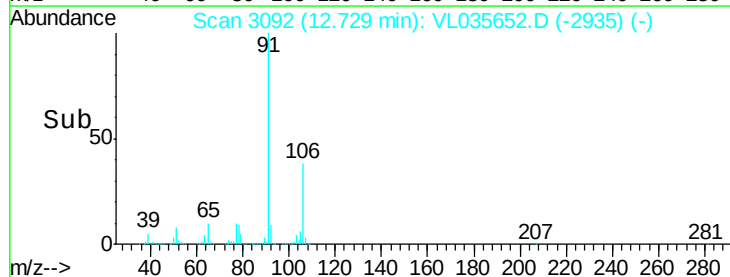
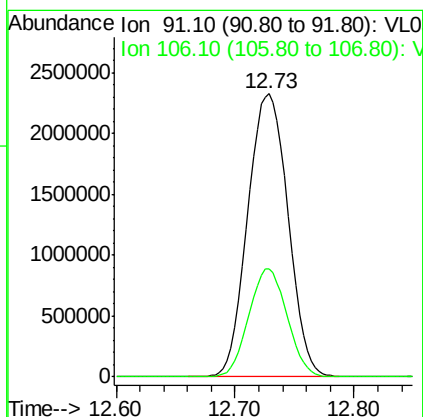
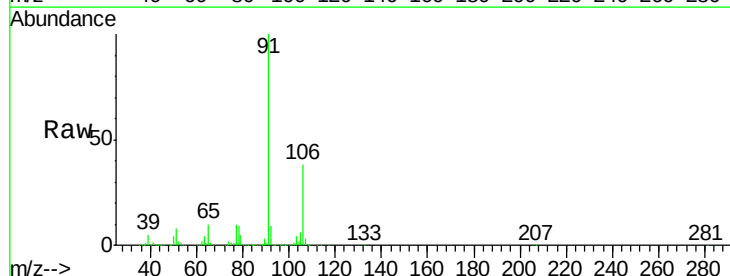
Manual Integrations
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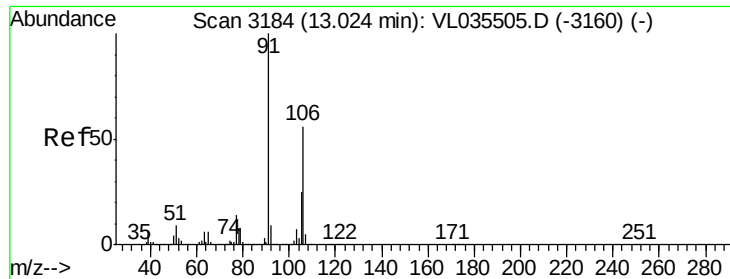
MMDadoda
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#58
Ethyl Benzene
Concen: 10.553 ppbv
RT: 12.73 min Scan# 3092
Delta R.T. 0.01 min
Lab File: VL035652.D
Acq: 17 Sep 2020 8:43

Tgt Ion	Ratio	Lower	Upper
91	100		
106	38.2	30.3	45.5





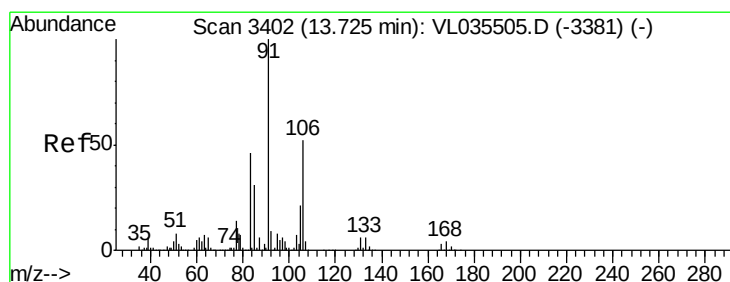
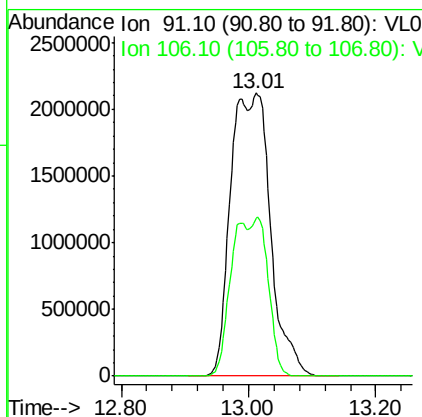
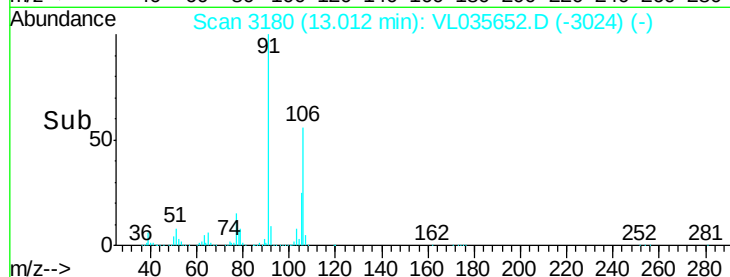
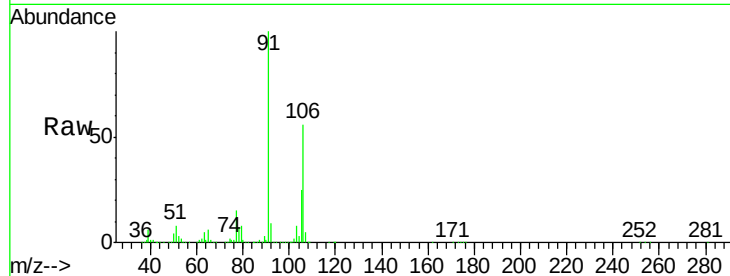
#59
m/p-Xylene
Concen: 21.292 ppbv m
RT: 13.01 min Scan# 3180
Delta R.T. 0.00 min
Lab File: VL035652.D
Acq: 17 Sep 2020 8:43

Instrument :
MSVOA_L
ClientSampleId :
VL0916ABS01

Tot Ion: 91 Resp: 9200310
Ion Ratio Lower Upper
91 100
106 51.4 43.4 65.2

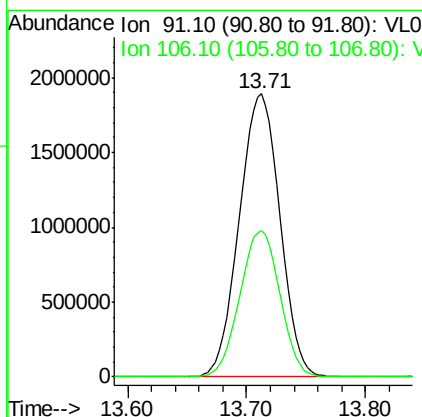
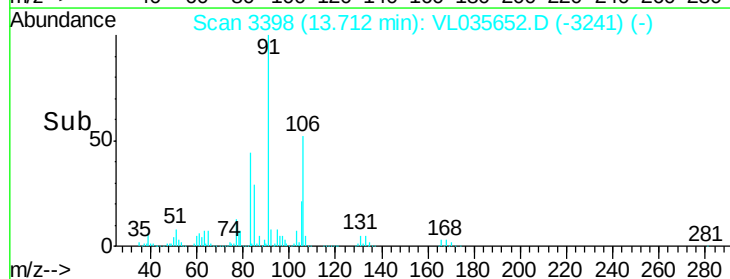
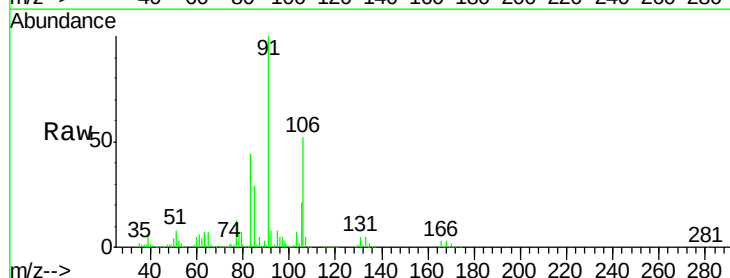
Manual Integrations
APPROVED

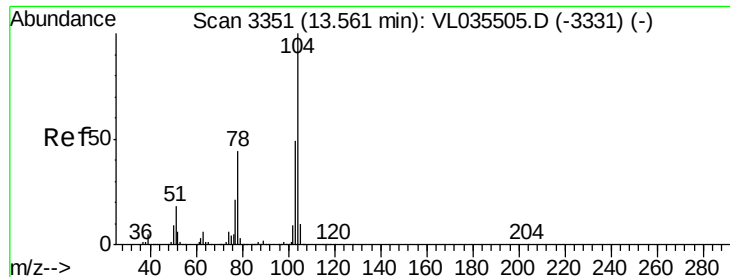
MMDadoda
9/17/2020 1:53:12 PM



#60
o-Xylene
Concen: 10.271 ppbv
RT: 13.71 min Scan# 3398
Delta R.T. 0.01 min
Lab File: VL035652.D
Acq: 17 Sep 2020 8:43

Tgt Ion: 91 Resp: 4469945
Ion Ratio Lower Upper
91 100
106 51.2 25.8 77.4





#61

Stvrene

Concen: 11.105 ppbv

RT: 13.55 min Scan# 3347

Delta R.T. 0.01 min

Lab File: VL035652.D

Acq: 17 Sep 2020 8:43

Instrument :

MSVOA_L

ClientSampleId :

VL0916ABS01

Tot Ion:104 Resp: 3696345

Ion Ratio Lower Upper

104 100

78 44.4 34.8 52.2

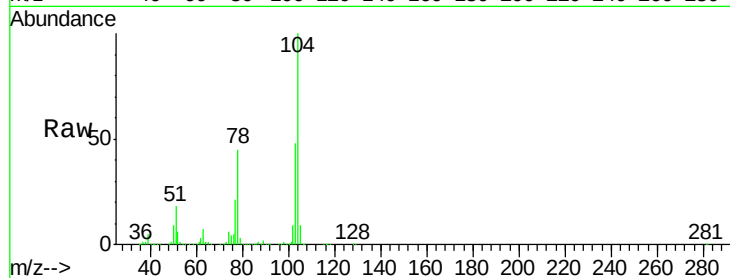
103 47.8 38.2 57.4

Manual Integrations

APPROVED

MMDadoda

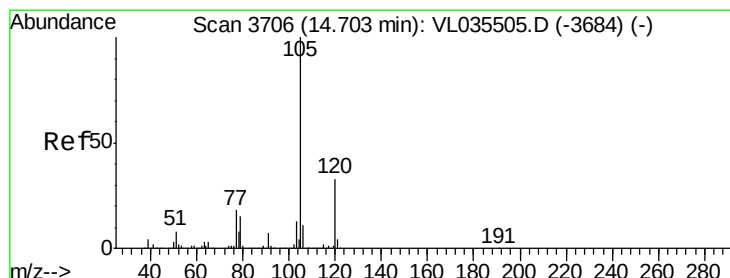
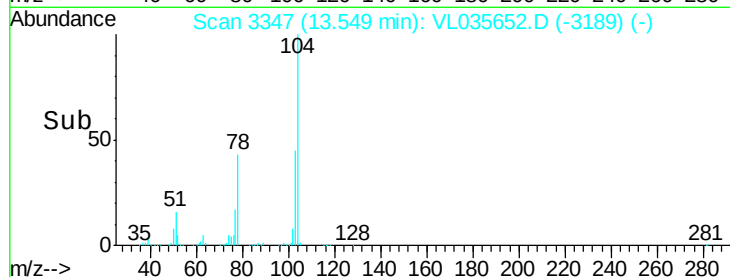
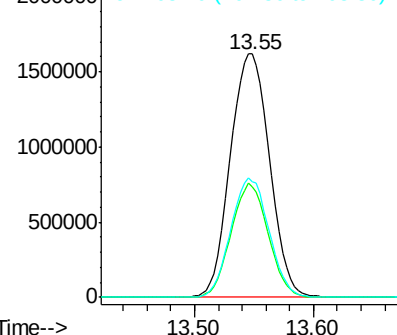
9/17/2020 1:53:12 PM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 9.757 ppbv

RT: 14.69 min Scan# 3702

Delta R.T. 0.01 min

Lab File: VL035652.D

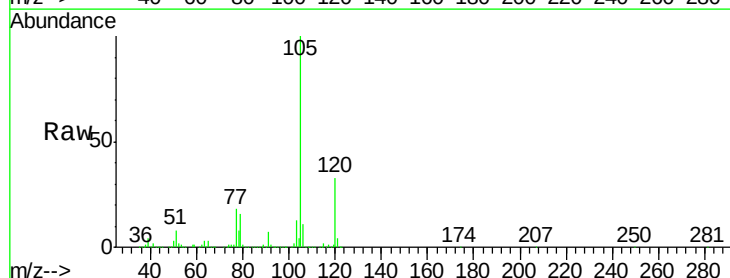
Acq: 17 Sep 2020 8:43

Tgt Ion:105 Resp: 6820864

Ion Ratio Lower Upper

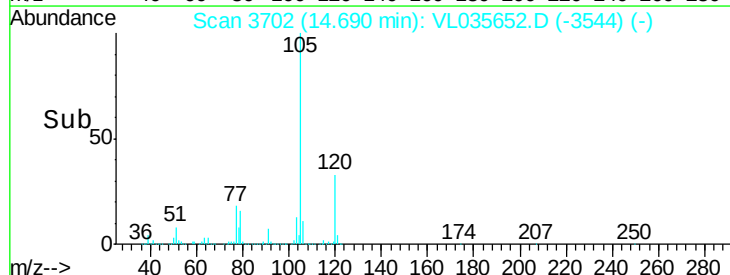
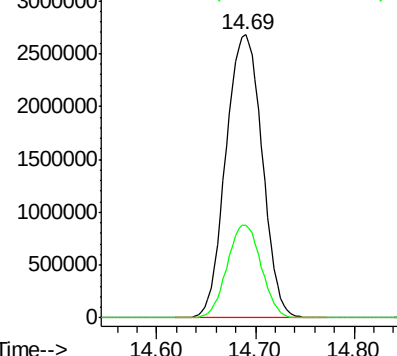
105 100

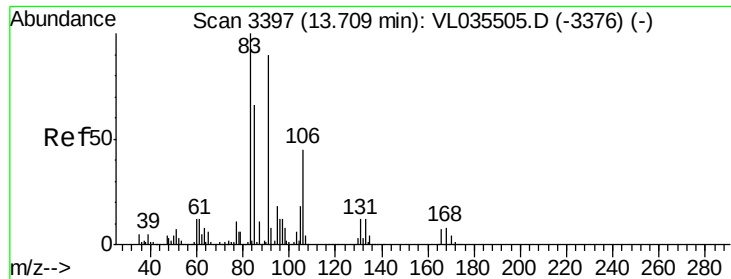
120 30.8 25.0 37.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





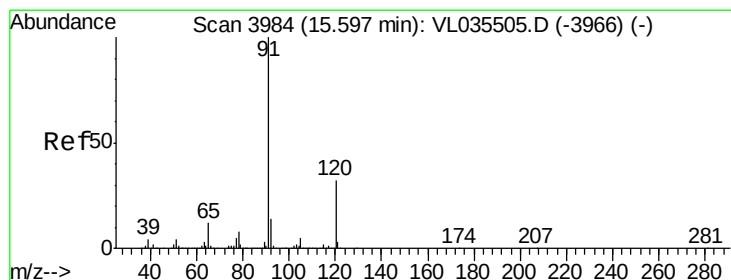
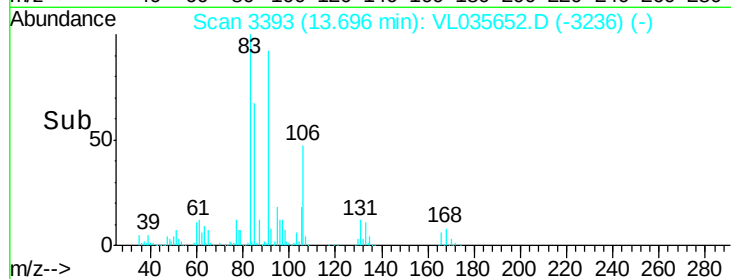
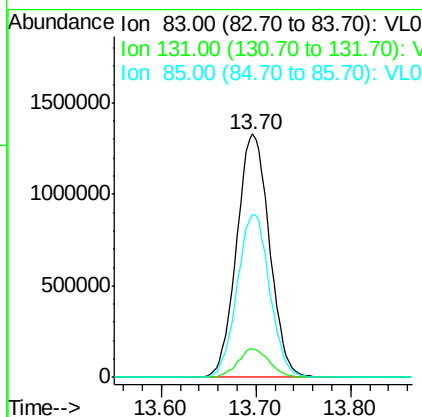
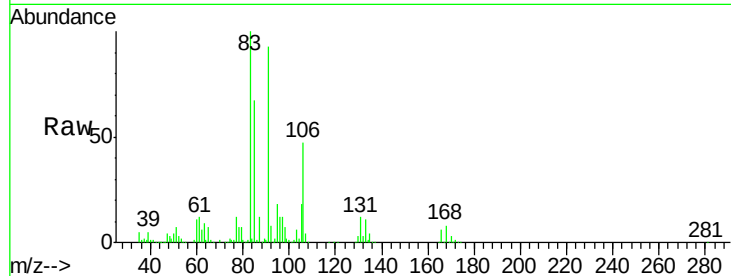
#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.484 ppbv
 RT: 13.70 min Scan# 3393
 Delta R.T. 0.01 min
 Lab File: VL035652.D
 Acq: 17 Sep 2020 8:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0916ABS01

Tot Ion	83	Resp	3199848
Ion Ratio	Lower	Upper	
83	100		
131	11.3	6.0	18.0
85	66.8	33.4	100.2

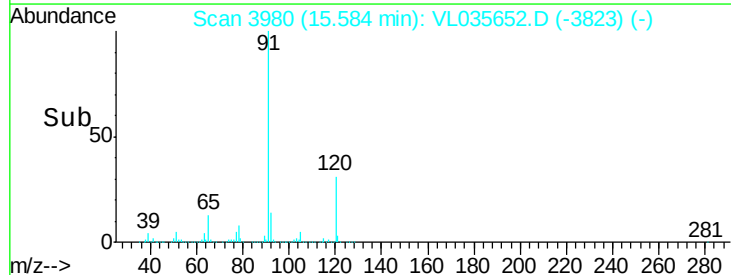
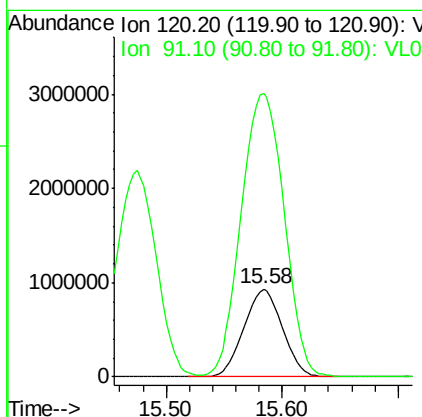
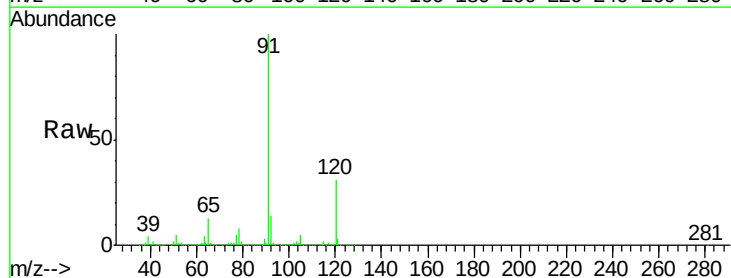
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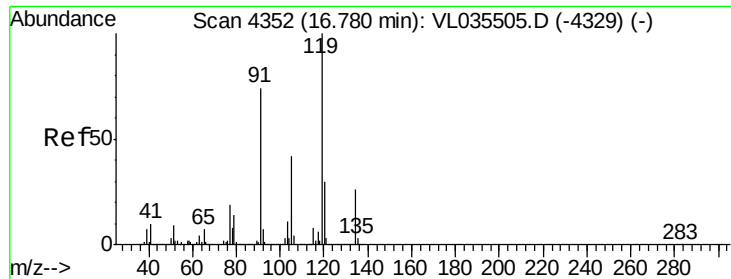
MMDadoda
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#64
 n-propylbenzene
 Concen: 10.137 ppbv
 RT: 15.58 min Scan# 3980
 Delta R.T. 0.01 min
 Lab File: VL035652.D
 Acq: 17 Sep 2020 8:43

Tgt Ion	120	Resp	2162511
Ion Ratio	Lower	Upper	
120	100		
91	359.4	279.4	419.0





#65

tert-Butylbenzene

Concen: 9.780 ppbv

RT: 16.77 min Scan# 4349

Delta R.T. 0.01 min

Lab File: VL035652.D

Acq: 17 Sep 2020 8:43

Instrument :

MSVOA_L

ClientSampleId :

VL0916ABS01

Tot Ion:119 Resp: 6355335

Ion Ratio Lower Upper

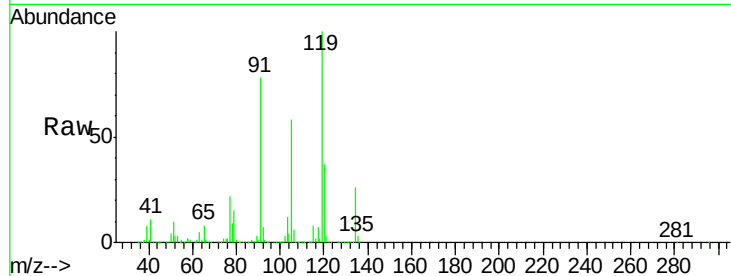
119 100

91 75.4 58.6 87.8

134 23.3 18.9 28.3

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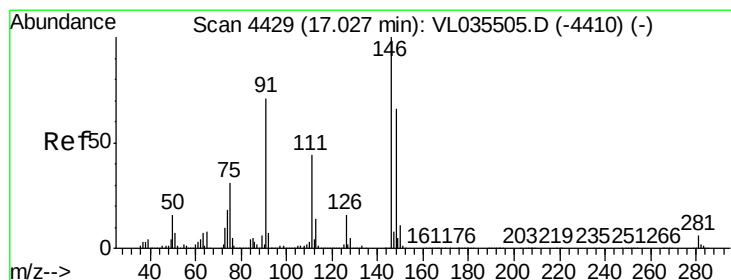
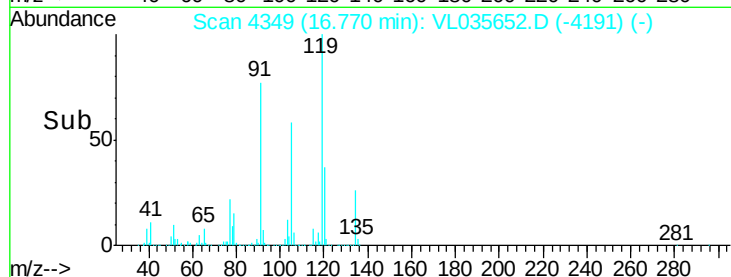
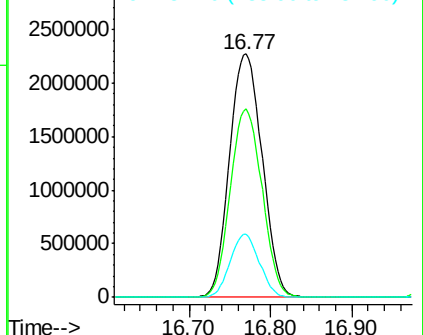
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 15.222 ppbv

RT: 17.01 min Scan# 4425

Delta R.T. 0.01 min

Lab File: VL035652.D

Acq: 17 Sep 2020 8:43

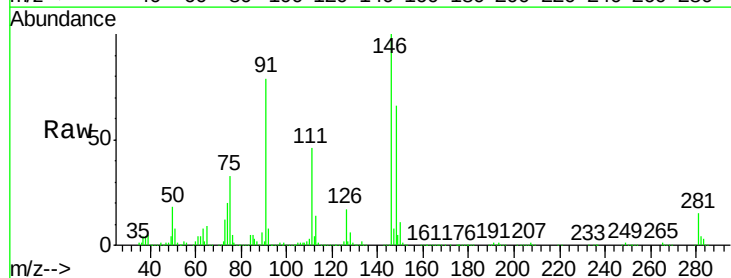
Tgt Ion: 91 Resp: 2458364

Ion Ratio Lower Upper

91 100

126 20.6 17.2 25.8

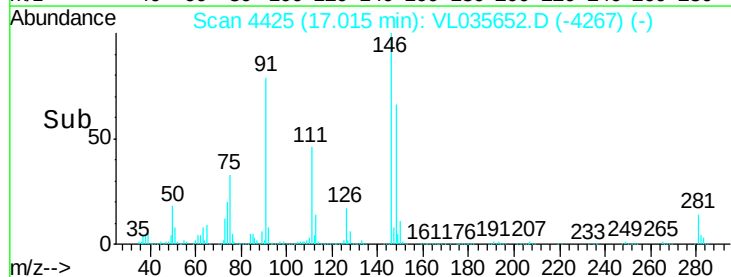
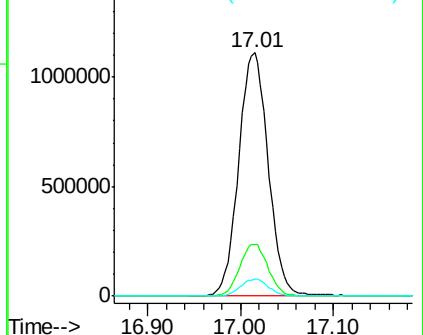
128 6.6 5.5 8.3

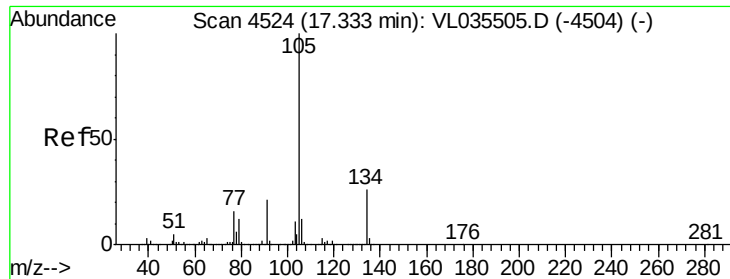


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.692 ppbv

RT: 17.32 min Scan# 4520

Delta R.T. 0.01 min

Lab File: VL035652.D

Acq: 17 Sep 2020 8:43

Instrument :

MSVOA_L

ClientSampleId :

VL0916ABS01

Tot Ion: 105 Resp: 8391252

Ion Ratio Lower Upper

105 100

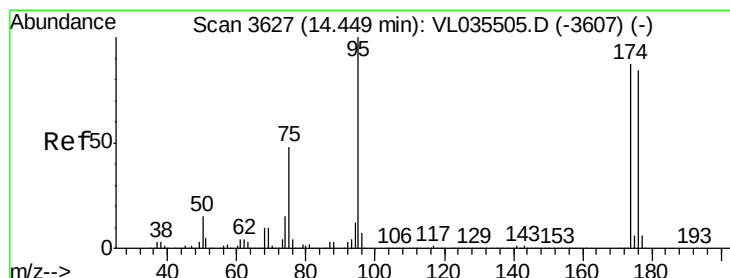
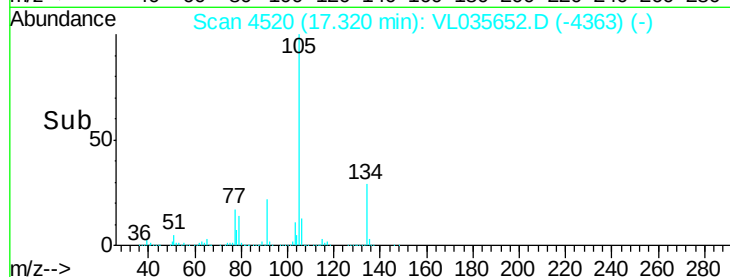
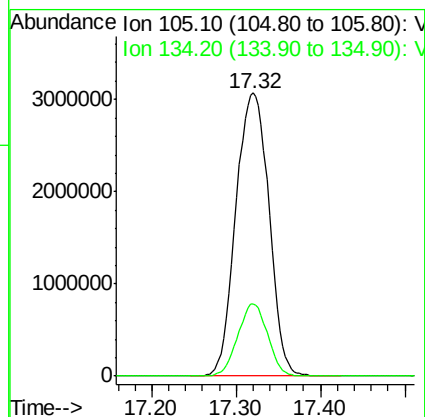
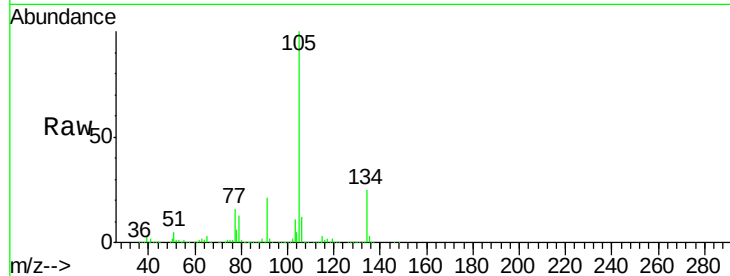
134 23.1 19.1 28.7

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.830 ppbv

RT: 14.44 min Scan# 3623

Delta R.T. 0.01 min

Lab File: VL035652.D

Acq: 17 Sep 2020 8:43

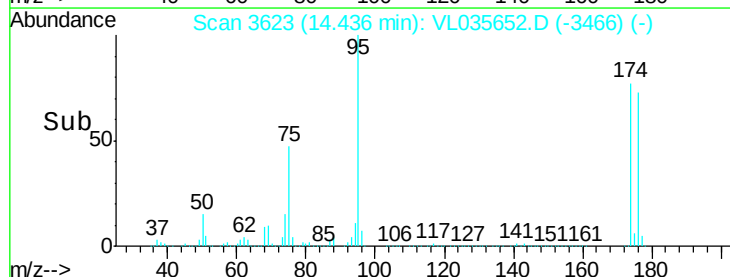
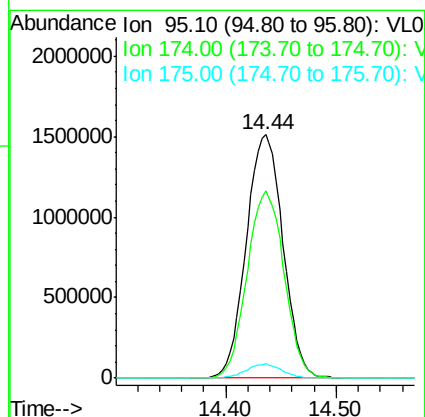
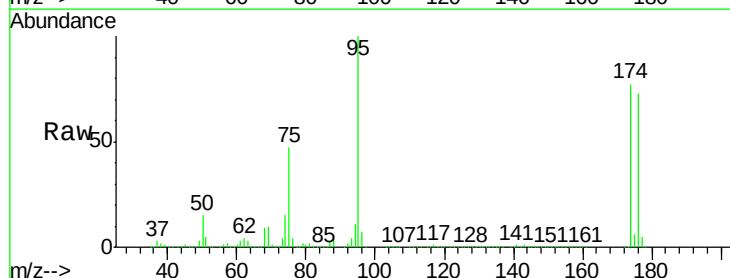
Tgt Ion: 95 Resp: 3500512

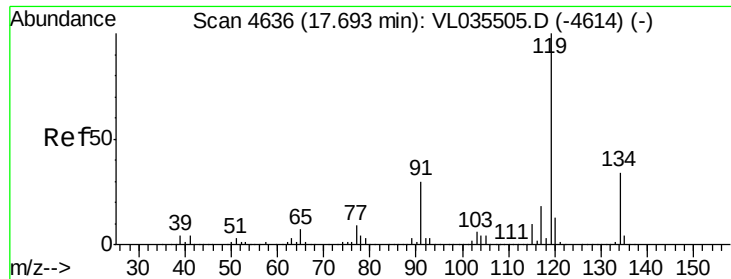
Ion Ratio Lower Upper

95 100

174 77.8 69.6 104.4

175 5.6 5.1 7.7





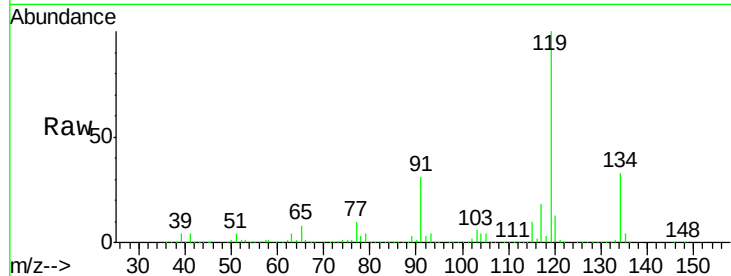
#69
 p-Isopropyltoluene
 Concen: 9.614 ppbv
 RT: 17.68 min Scan# 4631
 Delta R.T. 0.01 min
 Lab File: VL035652.D
 Acq: 17 Sep 2020 8:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0916ABS01

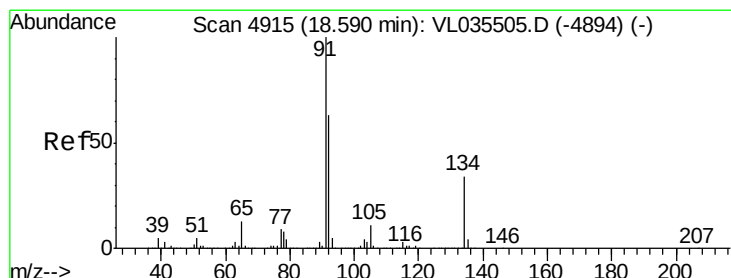
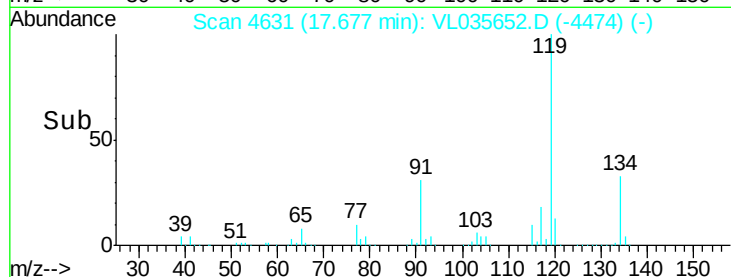
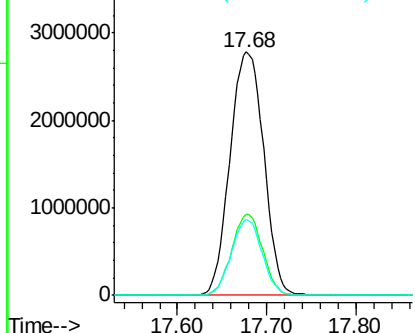
Tot Ion	Ratio	Lower	Upper
119	100		
134	30.6	25.0	37.4
91	28.4	22.3	33.5

Manual Integrations
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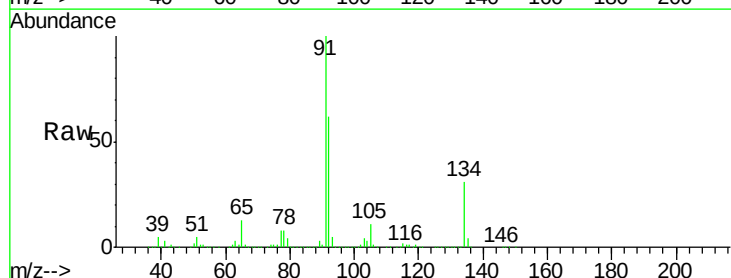


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

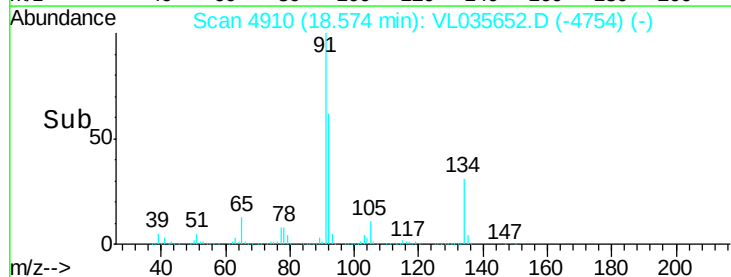
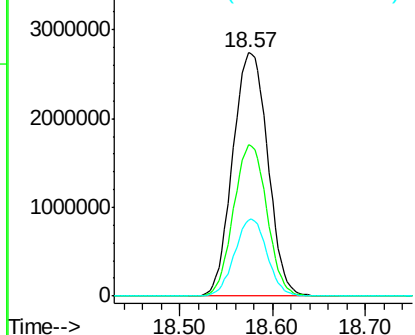


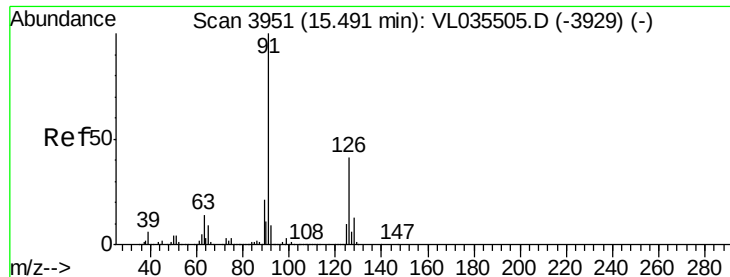
#70
 n-Butylbenzene
 Concen: 9.822 ppbv
 RT: 18.57 min Scan# 4910
 Delta R.T. 0.00 min
 Lab File: VL035652.D
 Acq: 17 Sep 2020 8:43

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.2	47.3	70.9
134	29.3	24.6	37.0



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 10.294 ppbv

RT: 15.47 min Scan# 3946

Delta R.T. 0.01 min

Lab File: VL035652.D

Acq: 17 Sep 2020 8:43

Instrument :

MSVOA_L

ClientSampleId :

VL0916ABS01

Tot Ion: 91 Resp: 5240488

Ion Ratio Lower Upper

91 100

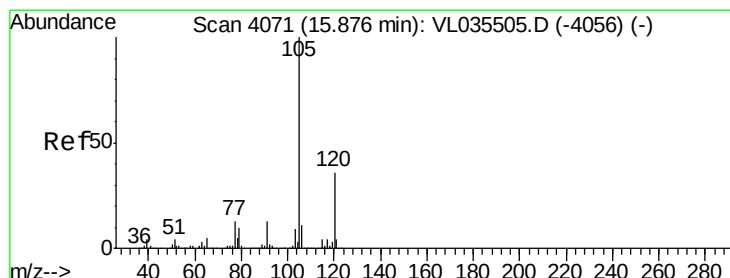
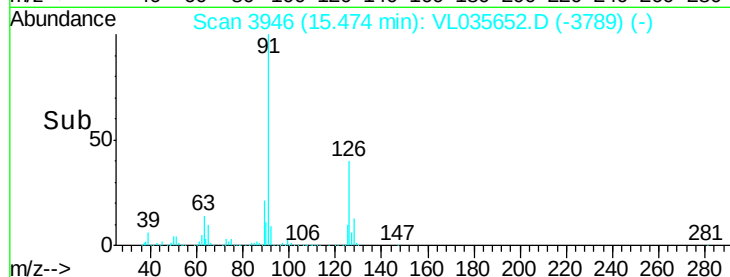
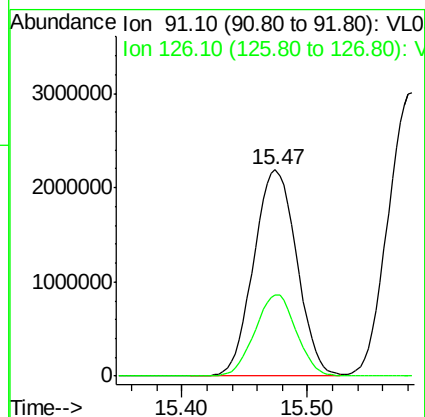
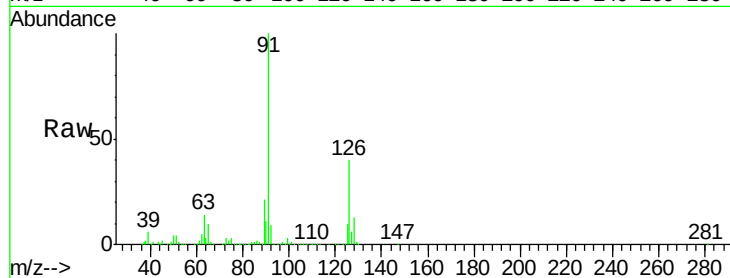
126 38.1 15.6 62.6

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#72

4-Ethyltoluene

Concen: 10.264 ppbv

RT: 15.86 min Scan# 4066

Delta R.T. 0.01 min

Lab File: VL035652.D

Acq: 17 Sep 2020 8:43

Tgt Ion: 105 Resp: 5678863

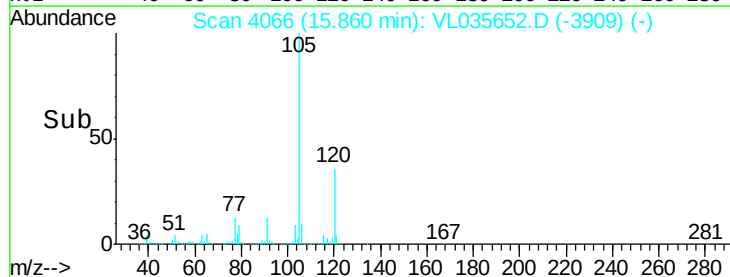
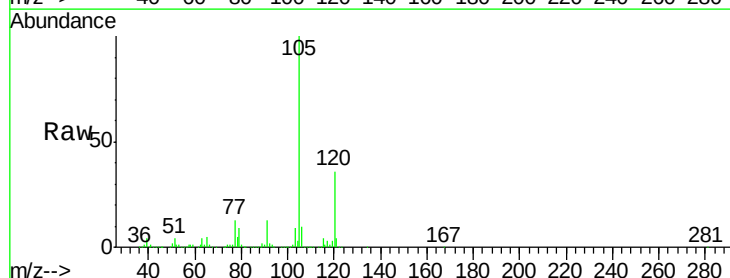
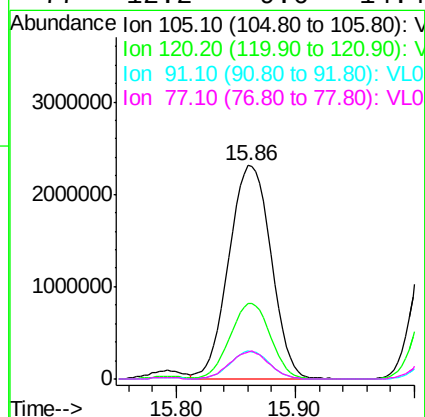
Ion Ratio Lower Upper

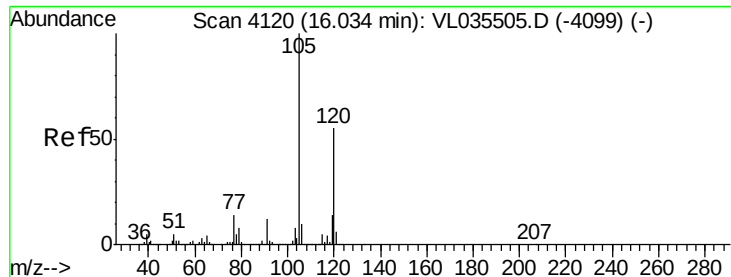
105 100

120 33.9 27.4 41.2

91 12.2 9.7 14.5

77 12.2 9.6 14.4





#73

1,3,5-Trimethylbenzene

Concen: 10.220 ppbv

RT: 16.02 min Scan# 4116

Delta R.T. 0.01 min

Lab File: VL035652.D

Acq: 17 Sep 2020 8:43

Instrument :

MSVOA_L

ClientSampleId :

VL0916ABS01

Tot Ion:105 Resp: 5230131

Ion Ratio Lower Upper

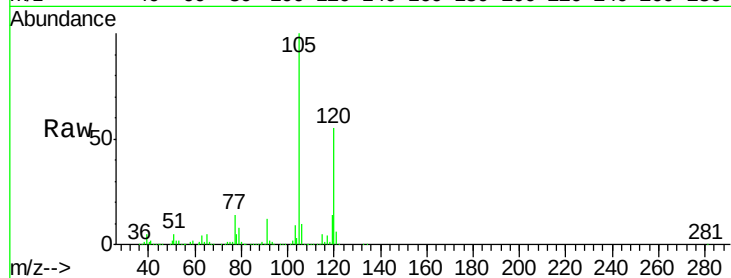
105 100

120 54.5 44.2 66.2

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

2500000

2000000

1500000

1000000

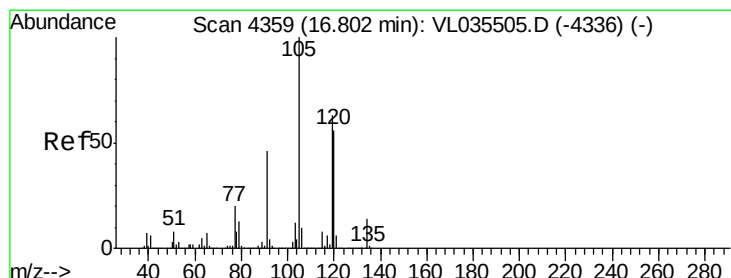
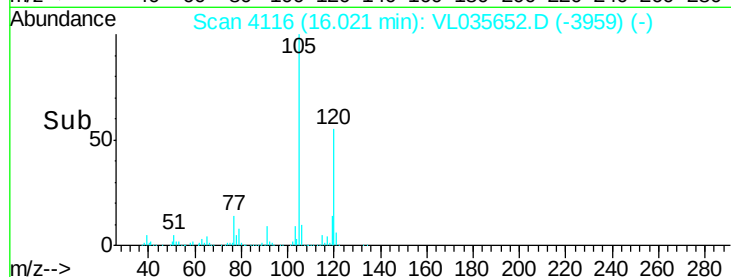
500000

0

16.02

15.90 16.00 16.10

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 9.641 ppbv

RT: 16.79 min Scan# 4354

Delta R.T. 0.01 min

Lab File: VL035652.D

Acq: 17 Sep 2020 8:43

Tgt Ion:105 Resp: 5417791

Ion Ratio Lower Upper

105 100

120 55.7 44.4 66.6

91 54.2 37.1 55.7

77 22.0 16.0 24.0

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

3000000

2000000

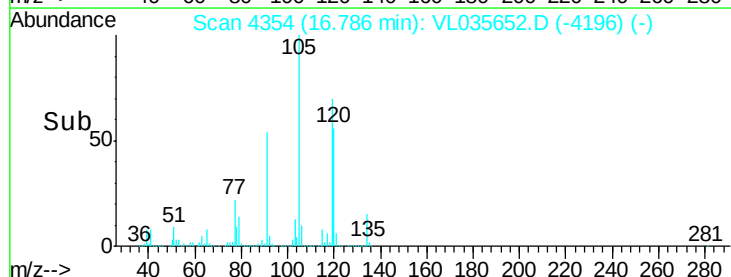
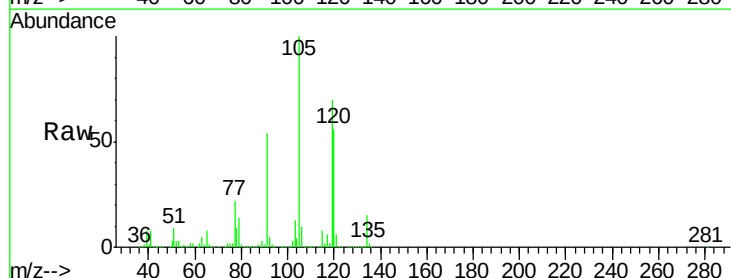
1000000

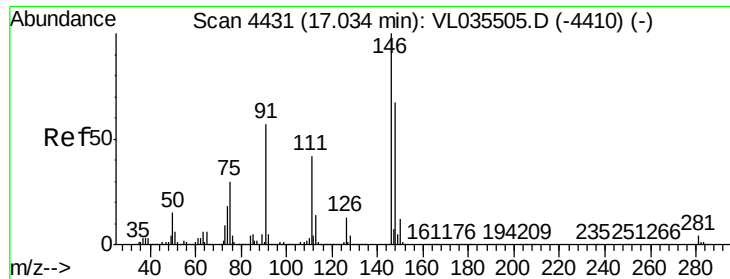
0

16.79

16.70 16.80 16.90

Time-->





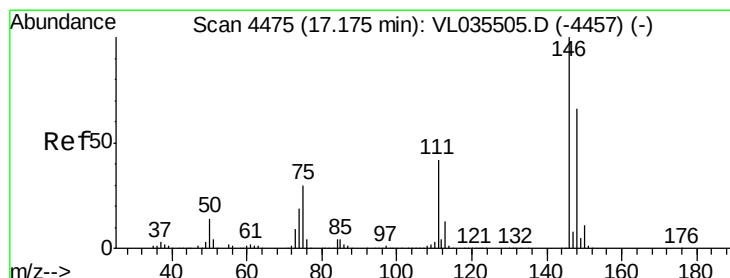
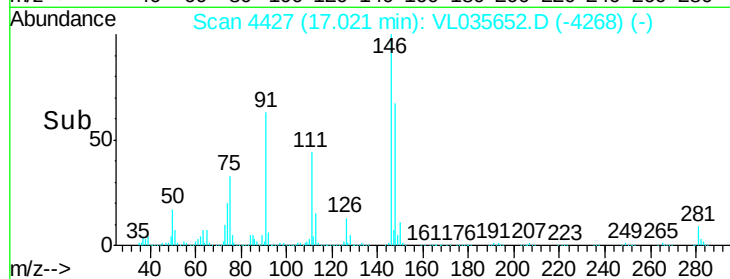
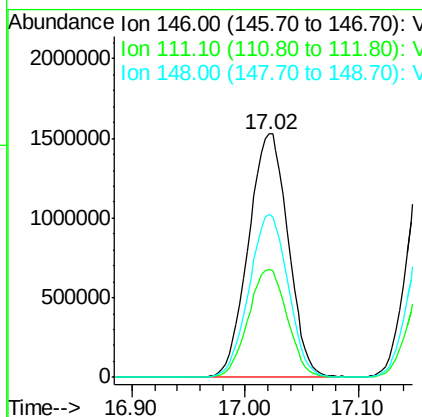
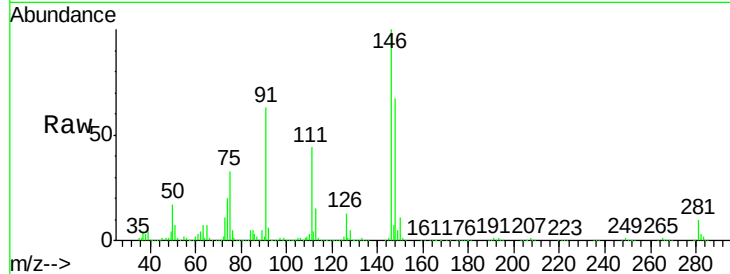
#75
1,3-Dichlorobenzene
Concen: 8.970 ppbv
RT: 17.02 min Scan# 4427
Delta R.T. 0.01 min
Lab File: VL035652.D
Acq: 17 Sep 2020 8:43

Instrument :
MSVOA_L
ClientSampleId :
VL0916ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.4	20.7	62.1
148	65.7	33.0	98.9

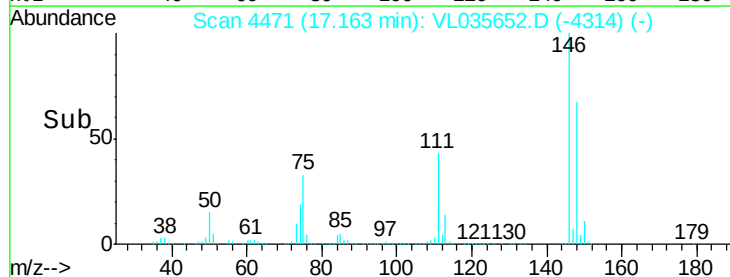
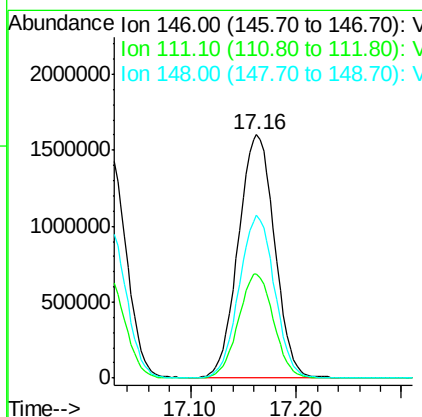
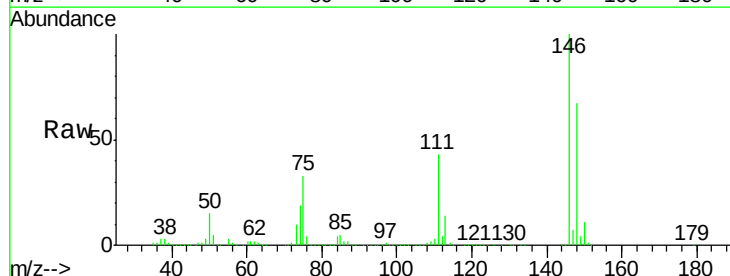
Manual Integrations
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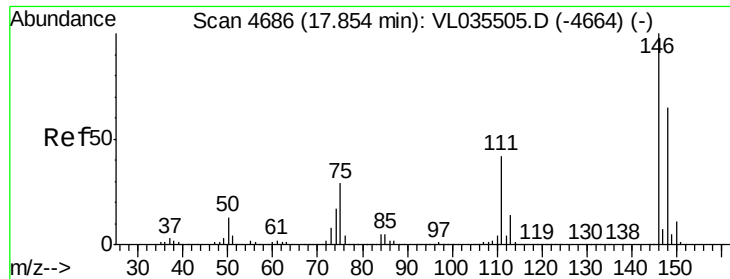
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#76
1,4-Dichlorobenzene
Concen: 9.290 ppbv
RT: 17.16 min Scan# 4471
Delta R.T. 0.01 min
Lab File: VL035652.D
Acq: 17 Sep 2020 8:43

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.7	20.0	60.0
148	65.7	33.2	99.6





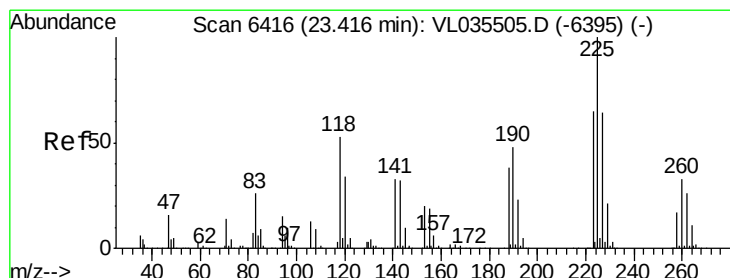
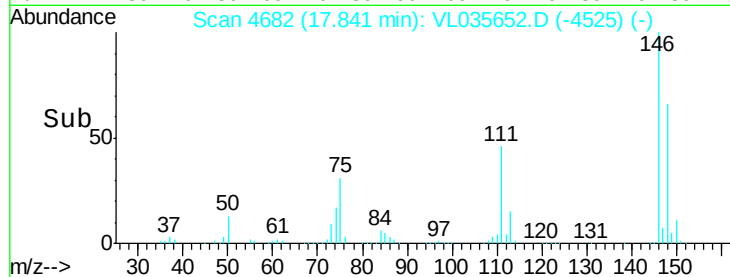
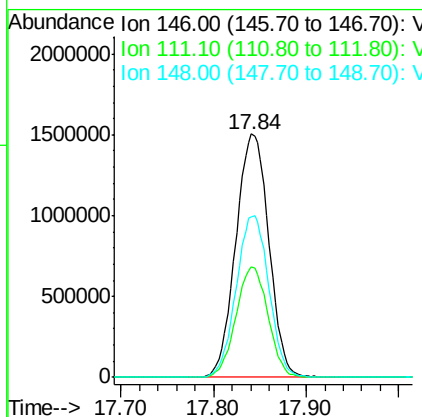
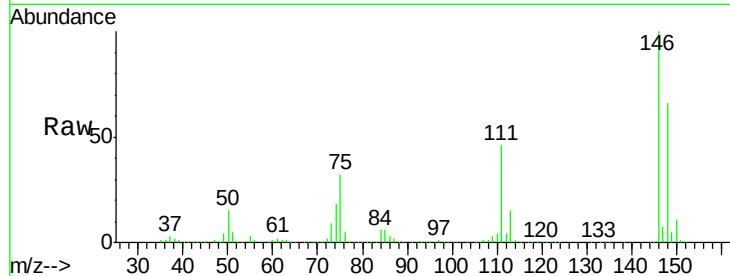
#77
 1,2-Dichlorobenzene
 Concen: 9.230 ppbv
 RT: 17.84 min Scan# 4682
 Delta R.T. 0.01 min
 Lab File: VL035652.D
 Acq: 17 Sep 2020 8:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0916ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.1	21.1	63.3
148	65.6	32.9	98.7

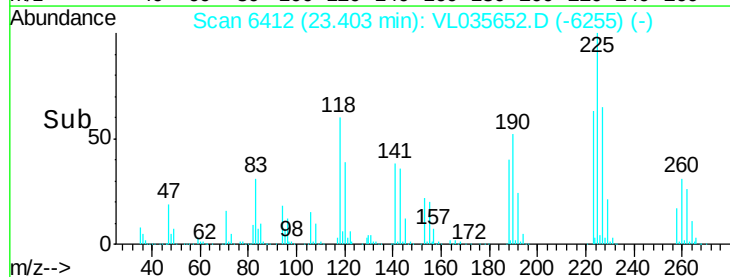
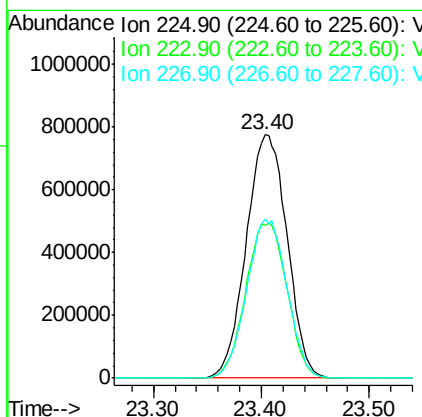
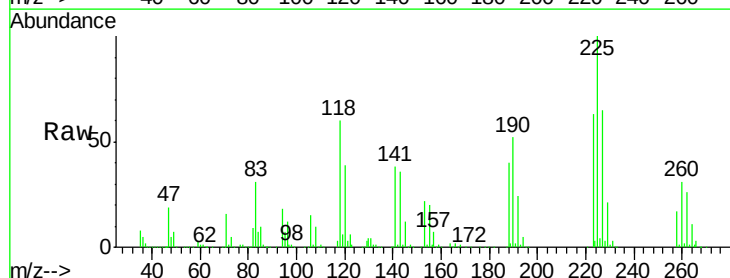
Manual Integrations
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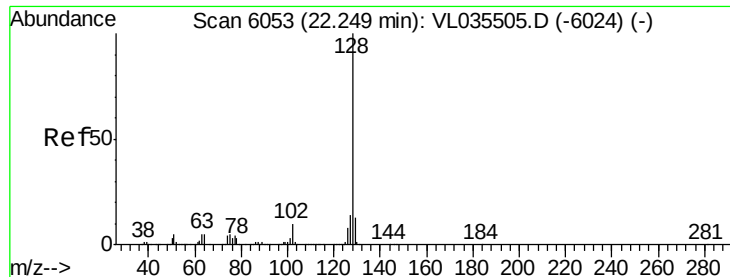
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#78
 Hexachloro-1,3-Butadiene
 Concen: 7.910 ppbv
 RT: 23.40 min Scan# 6412
 Delta R.T. 0.01 min
 Lab File: VL035652.D
 Acq: 17 Sep 2020 8:43

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.4	51.7	77.5
227	64.6	51.5	77.3





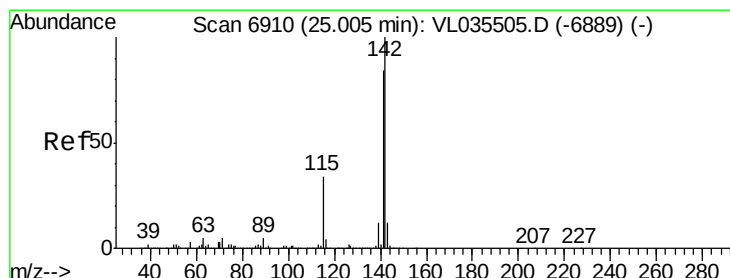
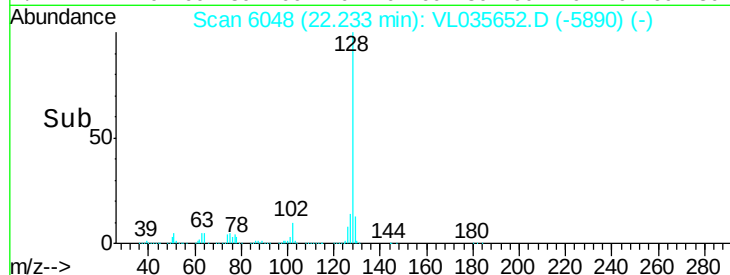
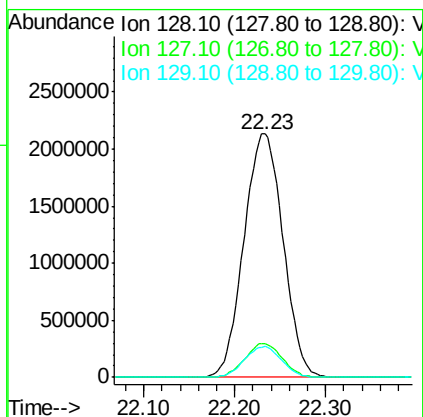
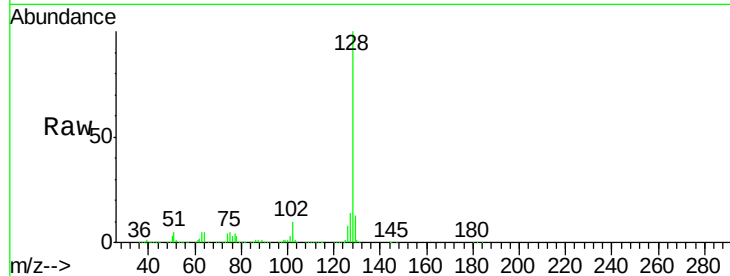
#79
Naphthalene
Concen: 10.211 ppbv
RT: 22.23 min Scan# 6048
Delta R.T. 0.01 min
Lab File: VL035652.D
Acq: 17 Sep 2020 8:43

Instrument :
MSVOA_L
ClientSampleId :
VL0916ABS01

Tot Ion:128 Resp: 6367062
Ion Ratio Lower Upper
128 100
127 13.7 11.4 17.2
129 12.6 10.5 15.7

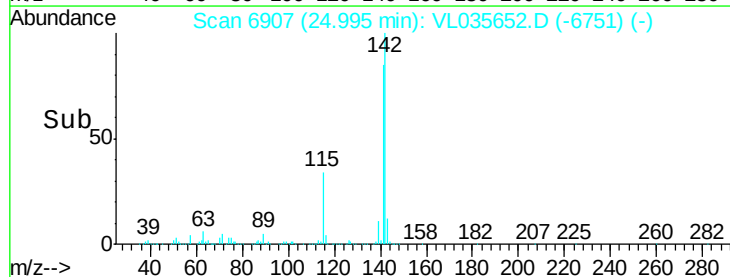
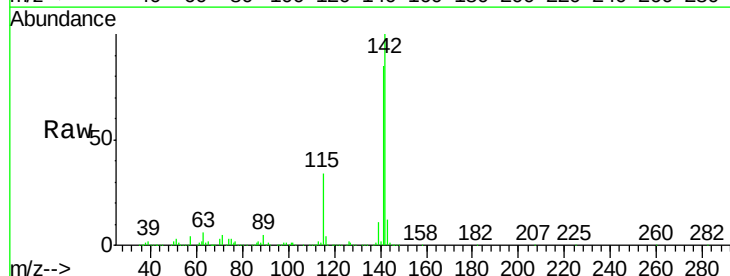
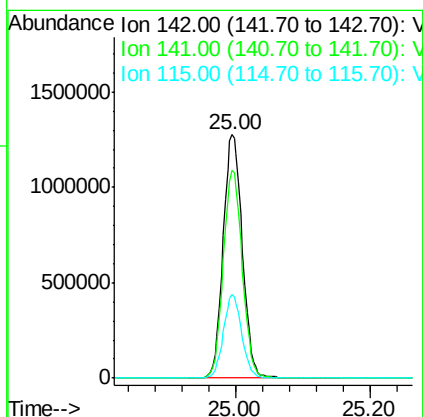
Manual Integrations
APPROVED

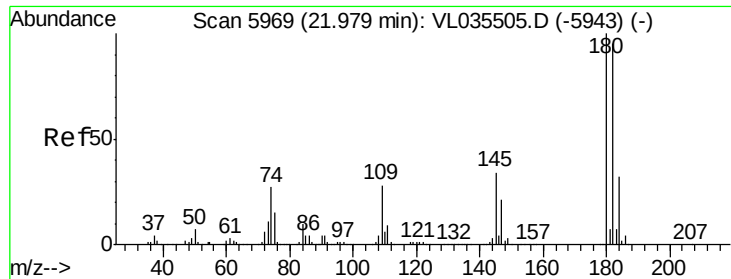
MMDadoda
9/17/2020 1:53:12 PM



#80
Naphthalene, 2-methyl-
Concen: 11.968 ppbv
RT: 25.00 min Scan# 6907
Delta R.T. 0.00 min
Lab File: VL035652.D
Acq: 17 Sep 2020 8:43

Tgt Ion:142 Resp: 2547195
Ion Ratio Lower Upper
142 100
141 84.3 67.6 101.4
115 32.8 25.8 38.8





#81
 1,2,4-Trichlorobenzene
 Concen: 8.774 ppbv
 RT: 21.96 min Scan# 5963
 Delta R.T. 0.01 min
 Lab File: VL035652.D
 Acq: 17 Sep 2020 8:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0916ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.3	114.5
184	31.2	25.3	37.9

Manual Integrations
 APPROVED

MMDadoda
 9/17/2020 1:53:12 PM

