

Data Path : Y:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081621\
 Data File : VL037461.D
 Acq On : 16 Aug 2021 14:18
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 8/19/2021 5:59:17 PM

Quant Time: Aug 16 14:52:04 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 16 2021
 QLast Update : Mon Aug 16 11:33:04 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1505967	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4567279	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	4145145	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2979317	10.02	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.20%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	2949797	12.821	ppbv 97
3) Chlorodifluoromethane	2.98	51	3838994	12.981	ppbv 99
4) Chloromethane	3.13	50	1398876	13.159	ppbv 96
5) Vinyl Chloride	3.25	62	1436038	12.261	ppbv 96
6) Bromomethane	3.47	94	805280	13.258	ppbv 99
7) Chloroethane	3.55	64	513582m	13.280	ppbv
8) Dichlorotetrafluoroethane	3.18	85	3279813	12.772	ppbv 100
9) Propene	3.00	41	1357591	13.671	ppbv 98
10) Heptane	8.11	43	3460991	14.332	ppbv 99
11) Trichlorofluoromethane	3.94	101	3112381	12.501	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.47	101	2344367	13.442	ppbv 99
13) Ethanol	3.60	45	132631m	12.515	ppbv
14) Bromoethene	3.73	108	1065380m	13.733	ppbv
15) Acetone	3.84	43	1797233	11.253	ppbv 99
16) 1,3-Butadiene	3.32	39	1424676	13.291	ppbv 97
17) tert-Butyl alcohol	4.28	59	1814077	11.900	ppbv 100
18) 1,1-Dichloroethene	4.28	96	1055177	13.031	ppbv 97
19) Isopropyl Alcohol	3.96	45	1070430	11.516	ppbv 99
20) Methylene Chloride	4.33	84	915964	10.846	ppbv 96
21) Allyl Chloride	4.40	41	1764385	14.098	ppbv 96
22) trans-1,2-Dichloroethene	4.87	96	1161194	15.288	ppbv 100
23) Vinyl Acetate	5.06	43	2786193	11.369	ppbv 99
24) 1,1-Dichloroethane	5.00	63	2182417	11.466	ppbv 99
25) Ethyl Acetate	5.66	43	5355815	14.071	ppbv 100
26) Hexane	5.67	57	2523659	12.848	ppbv 100
27) Carbon Disulfide	4.54	76	2722847	16.442	ppbv 100
28) Methyl tert-Butyl Ether	5.02	73	2287366	10.881	ppbv 100
29) Chloroform	5.74	83	3686289	13.329	ppbv 97
30) Cyclohexane	7.11	84	2184242	13.502	ppbv 99
31) cis-1,2-Dichloroethene	5.54	61	2480153	14.607	ppbv 99
32) 1,1,1-Trichloroethane	6.50	97	3645877	13.063	ppbv 99
34) 2-Butanone	5.23	43	2523696m	13.384	ppbv
35) Carbon Tetrachloride	7.01	117	3855554	13.689	ppbv 99
36) Benzene	6.88	78	5353625	13.901	ppbv 98
37) 1,2-Dichloroethane	6.29	62	2715219	13.815	ppbv 99
38) Trichloroethene	7.82	130	2081364	12.245	ppbv 98
39) 1,2-Dichloropropane	7.60	63	2046040	13.946	ppbv 96
40) 1,4-Dioxane	7.82	88	442583m	12.397	ppbv
41) Tetrahydrofuran	6.03	42	1281356	14.797	ppbv 99
42) Bromodichloromethane	7.78	83	4006975	14.560	ppbv 95
43) Methyl Methacrylate	8.00	69	1958838	15.007	ppbv 98

Data Path : Y:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081621\
 Data File : VL037461.D
 Acq On : 16 Aug 2021 14:18
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

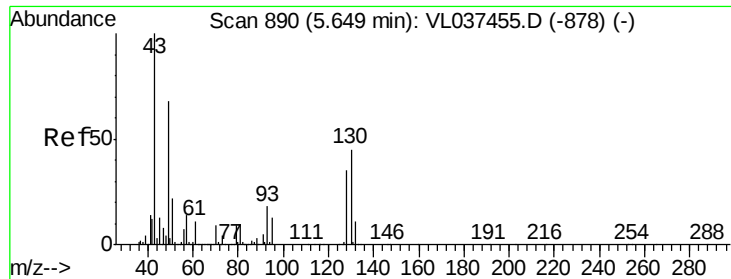
MMDadoda
 8/19/2021 5:59:17 PM

Quant Time: Aug 16 14:52:04 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 16 2021
 QLast Update : Mon Aug 16 11:33:04 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.86	57	8580511	13.326	ppbv	99
45) t-1,3-Dichloropropene	9.27	75	1769301	18.241	ppbv	97
46) cis-1,3-Dichloropropene	8.69	75	2254394	16.649	ppbv	99
47) 1,1,2-Trichloroethane	9.46	97	2190441	13.812	ppbv	95
48) Dibromochloromethane	10.29	129	3595746	15.714	ppbv	99
49) Bromoform	13.03	173	2971441	17.138	ppbv	100
50) 4-Methyl-2-Pentanone	8.73	43	3531624	14.888	ppbv	100
51) 2-Hexanone	10.12	43	1760044	15.770	ppbv #	97
52) Tetrachloroethene	11.21	164	1976727	12.184	ppbv	97
53) Toluene	9.79	91	6226818	14.162	ppbv	100
54) 1,2-Dibromoethane	10.60	107	3255453	15.083	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.11	131	2376126	14.400	ppbv	96
57) Chlorobenzene	12.13	112	4506495	13.414	ppbv	99
58) Ethyl Benzene	12.70	91	7998259	14.224	ppbv	99
59) m/p-Xylene	12.98	91	13171840m	26.666	ppbv	
60) o-Xylene	13.68	91	6178401	13.464	ppbv	100
61) Styrene	13.51	104	3728816	16.084	ppbv	100
62) Isopropylbenzene	14.65	105	8688461	13.240	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.66	83	4520504	13.063	ppbv	99
64) n-propylbenzene	15.55	120	2353062	14.250	ppbv	95
65) tert-Butylbenzene	16.73	119	7628376	12.890	ppbv	99
66) Benzyl Chloride	16.97	91	511616	18.894	ppbv	99
67) sec-Butylbenzene	17.28	105	10632673	13.204	ppbv	98
69) p-Isopropyltoluene	17.64	119	9100465	13.770	ppbv	99
70) n-Butylbenzene	18.54	91	8976467	14.613	ppbv	99
71) 2-Chlorotoluene	15.44	91	6511503	14.028	ppbv	100
72) 4-Ethyltoluene	15.82	105	7736495	14.525	ppbv	99
73) 1,3,5-Trimethylbenzene	15.98	105	7007076	13.915	ppbv	99
74) 1,2,4-Trimethylbenzene	16.75	105	7019961	13.616	ppbv	96
75) 1,3-Dichlorobenzene	16.98	146	4465792	14.154	ppbv	98
76) 1,4-Dichlorobenzene	17.12	146	4531887m	14.488	ppbv	
77) 1,2-Dichlorobenzene	17.80	146	4357337	14.353	ppbv	99
78) Hexachloro-1,3-Butadiene	23.36	225	3307076	13.449	ppbv	99
79) Naphthalene	22.17	128	6132351	21.885	ppbv	98
80) Naphthalene, 2-methyl-	24.96	142	1849572	31.252	ppbv	98
81) 1,2,4-Trichlorobenzene	21.91	180	3571893	18.761	ppbv	98

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. 0.01 min

Lab File: VL037461.D

Acq: 16 Aug 2021 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 49 Resp: 1505967

Ion Ratio Lower Upper

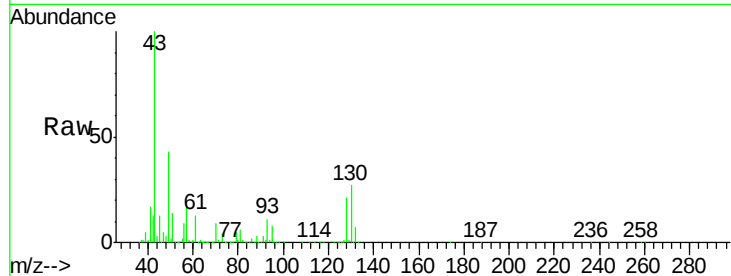
49 100

128 55.5 27.5 82.4

130 67.8 34.0 101.8

Manual Integrations
APPROVED

MMDadoda
8/19/2021 5:59:17 PM



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

5.65

800000

600000

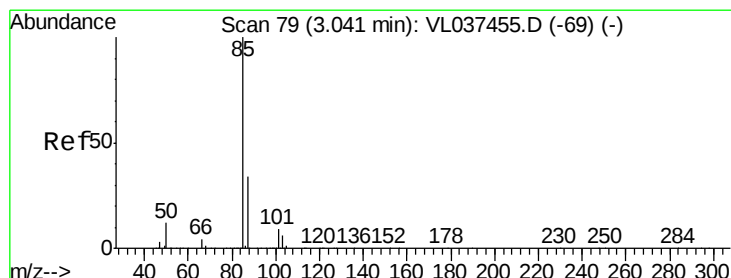
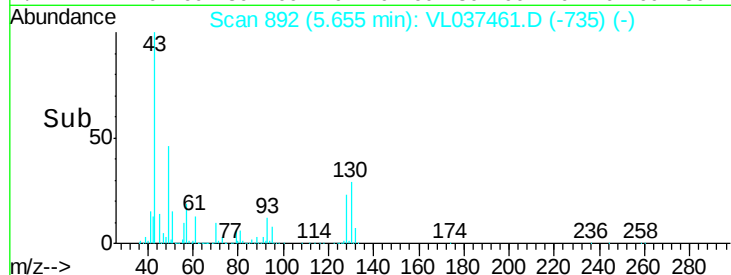
400000

200000

0

Time-->

5.60 5.65 5.70



#2

Dichlorodifluoromethane

Concen: 12.821 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.00 min

Lab File: VL037461.D

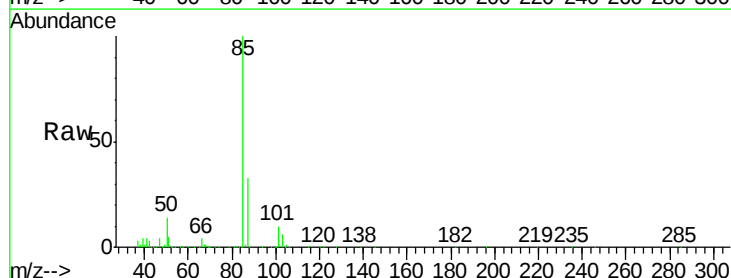
Acq: 16 Aug 2021 14:18

Tgt Ion: 85 Resp: 2949797

Ion Ratio Lower Upper

85 100

87 32.8 27.6 41.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.04

2000000

1500000

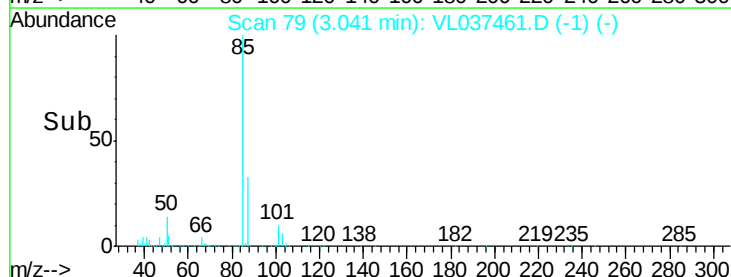
1000000

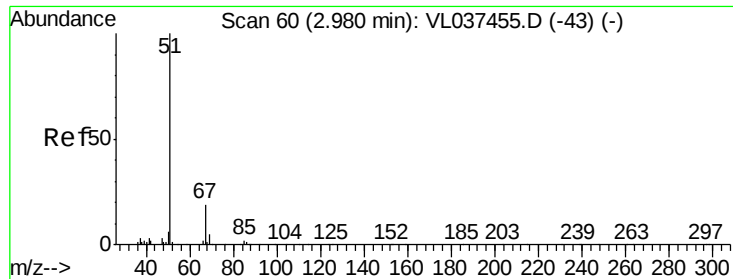
500000

0

Time-->

3.00 3.05 3.10 3.15





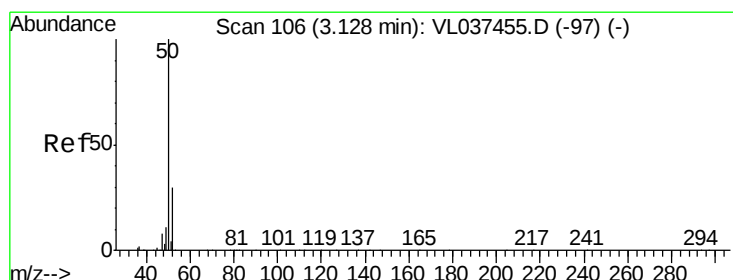
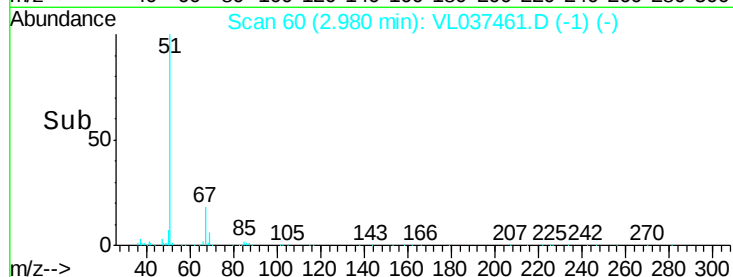
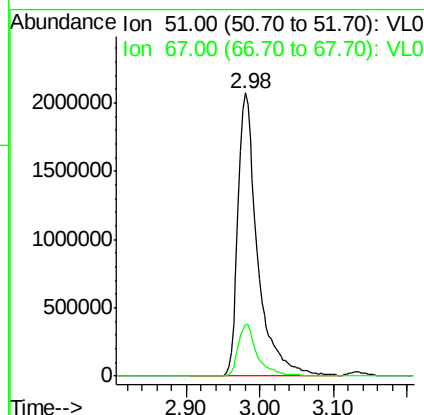
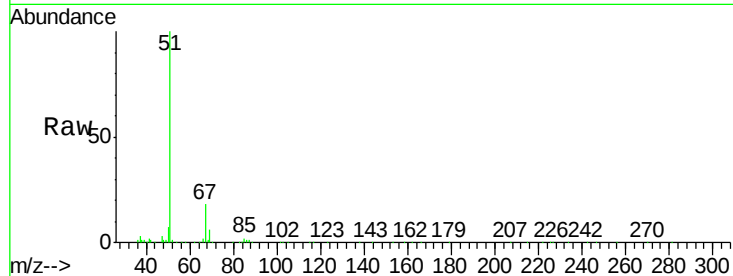
#3
Chlorodifluoromethane
Concen: 12.981 ppbv
RT: 2.98 min Scan# 60
Delta R.T. -0.00 min
Lab File: VL037461.D
Acq: 16 Aug 2021 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 51 Resp: 3838994
Ion Ratio Lower Upper
51 100
67 18.2 14.2 21.2

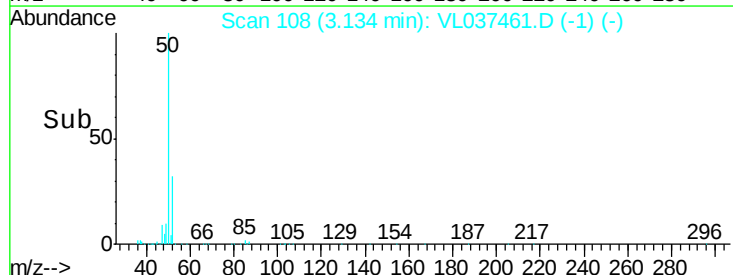
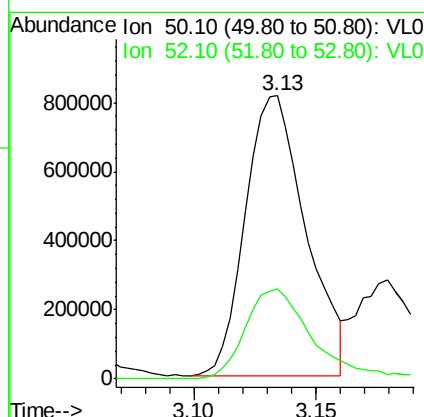
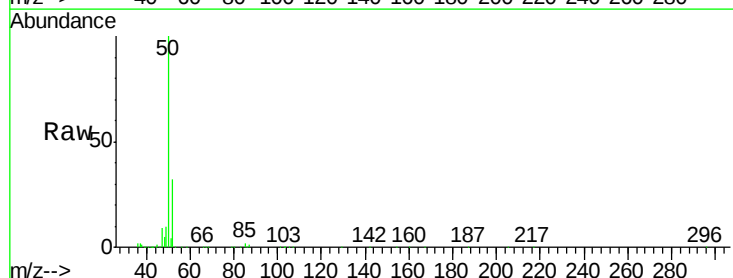
Manual Integrations
APPROVED

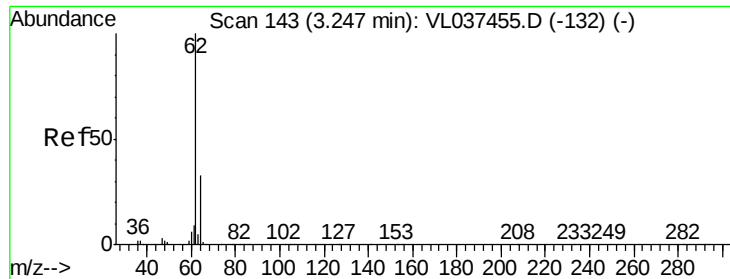
MMDadoda
8/19/2021 5:59:17 PM



#4
Chloromethane
Concen: 13.159 ppbv
RT: 3.13 min Scan# 108
Delta R.T. 0.01 min
Lab File: VL037461.D
Acq: 16 Aug 2021 14:18

Tgt Ion: 50 Resp: 1398876
Ion Ratio Lower Upper
50 100
52 32.1 24.0 36.0





#5

Vinyl Chloride

Concen: 12.261 ppbv

RT: 3.25 min Scan# 143

Delta R.T. -0.00 min

Lab File: VL037461.D

Acq: 16 Aug 2021 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 1436038

Ion Ratio Lower Upper

62 100

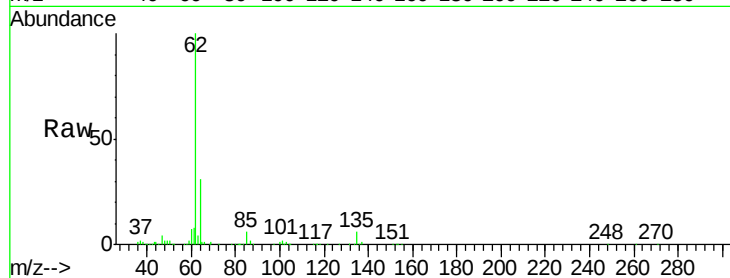
64 31.1 26.5 39.7

Manual Integrations

APPROVED

MMDadoda

8/19/2021 5:59:17 PM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.25

800000

600000

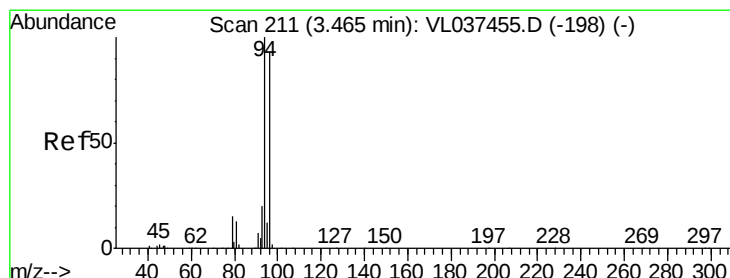
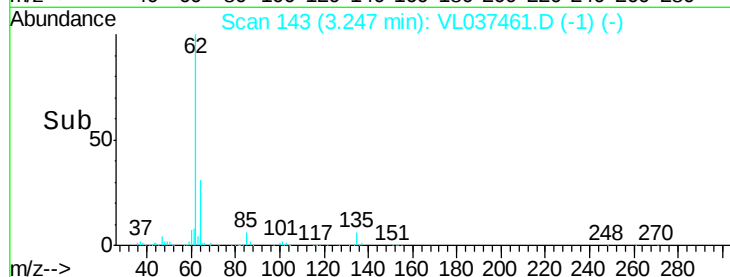
400000

200000

0

3.20 3.25 3.30

Time-->



#6

Bromomethane

Concen: 13.258 ppbv

RT: 3.47 min Scan# 211

Delta R.T. -0.00 min

Lab File: VL037461.D

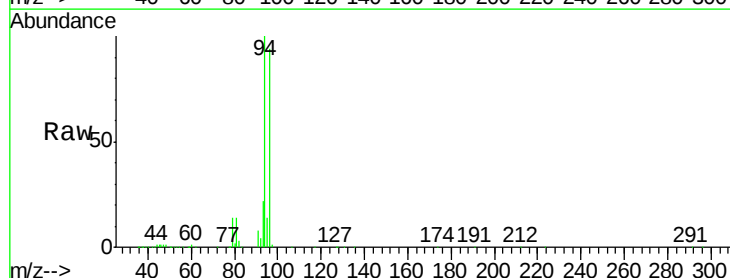
Acq: 16 Aug 2021 14:18

Tgt Ion: 94 Resp: 805280

Ion Ratio Lower Upper

94 100

96 94.2 74.5 111.7



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.47

500000

400000

300000

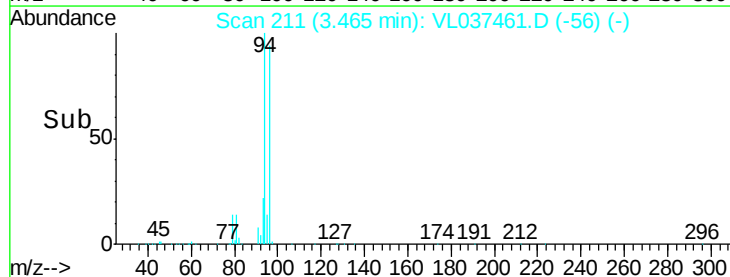
200000

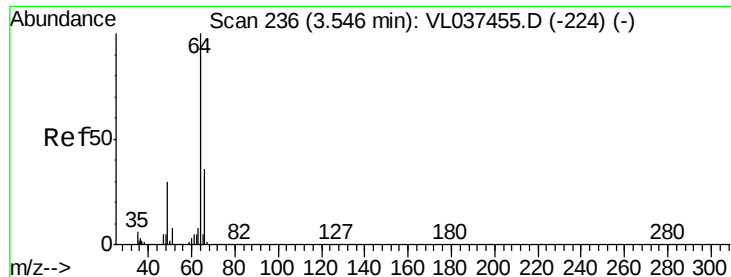
100000

0

3.40 3.45 3.50 3.55

Time-->





#7

Chloroethane

Concen: 13.280 ppbv m

RT: 3.55 min Scan# 237

Delta R.T. 0.00 min

Lab File: VL037461.D

Acq: 16 Aug 2021 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 513582

Ion Ratio Lower Upper

64 100

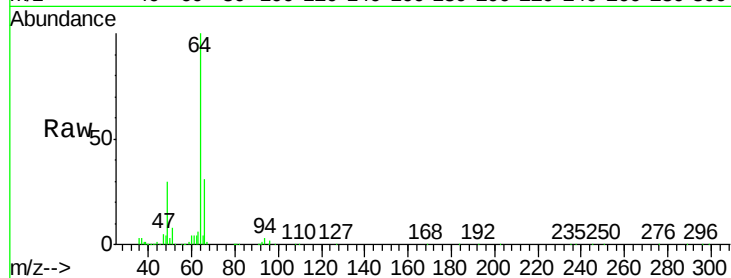
66 31.0 28.6 43.0

Manual Integrations

APPROVED

MMDadoda

8/19/2021 5:59:17 PM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.55

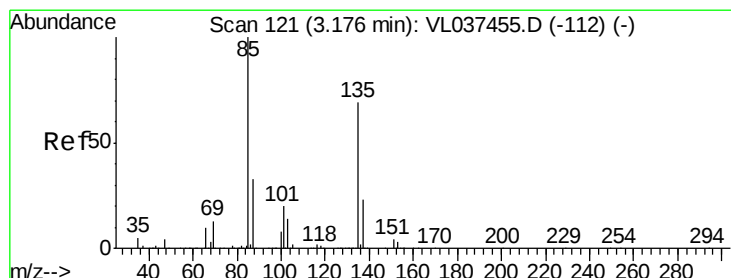
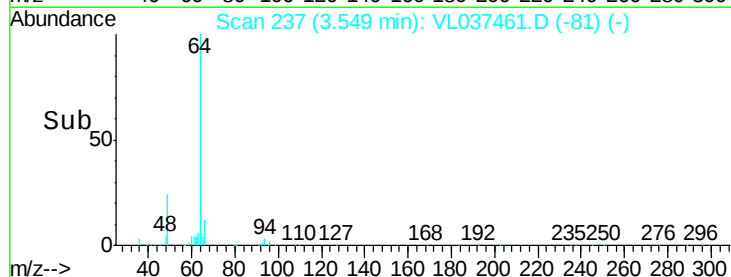
300000

200000

100000

0

Time--> 3.45 3.50 3.55 3.60 3.65



#8

Dichlorotetrafluoroethane

Concen: 12.772 ppbv

RT: 3.18 min Scan# 122

Delta R.T. 0.00 min

Lab File: VL037461.D

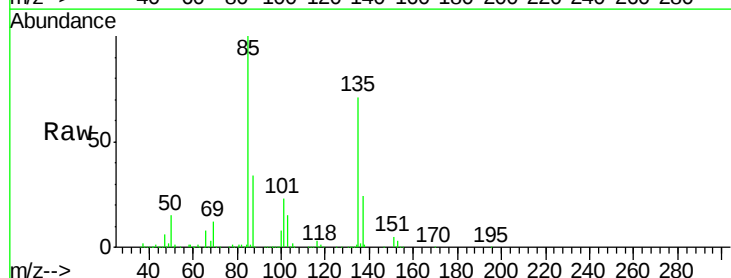
Acq: 16 Aug 2021 14:18

Tgt Ion: 85 Resp: 3279813

Ion Ratio Lower Upper

85 100

135 73.9 58.8 88.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.18

2000000

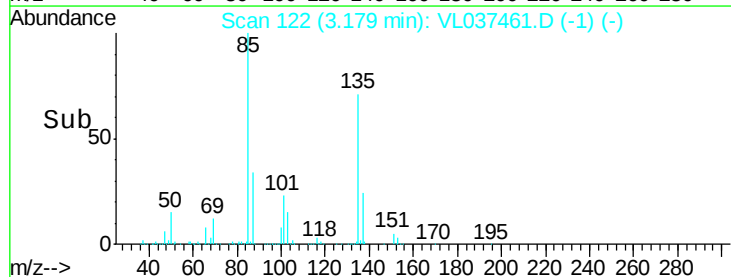
1500000

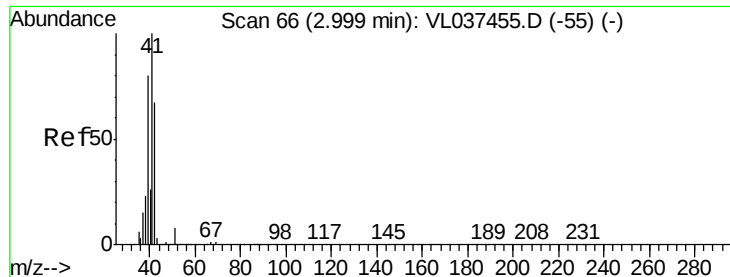
1000000

500000

0

Time--> 3.10 3.20 3.30





#9

Propene

Concen: 13.671 ppbv

RT: 3.00 min Scan# 67

Delta R.T. 0.00 min

Lab File: VL037461.D

Acq: 16 Aug 2021 14:18

Tot Ion: 41 Resp: 1357591

Ion Ratio Lower Upper

41 100

42 68.3 53.7 80.5

Instrument :

MSVOA_L

ClientSampleId :

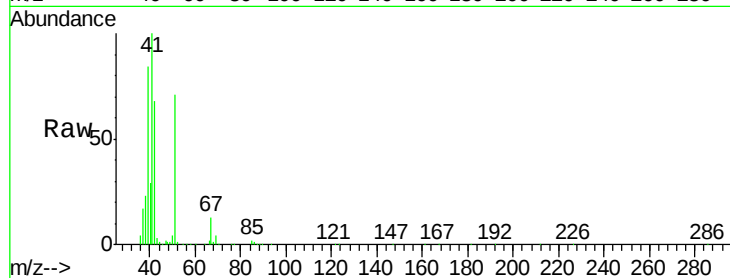
VSTDIC015

Manual Integrations

APPROVED

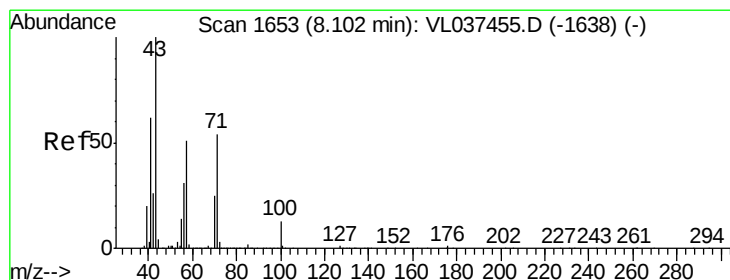
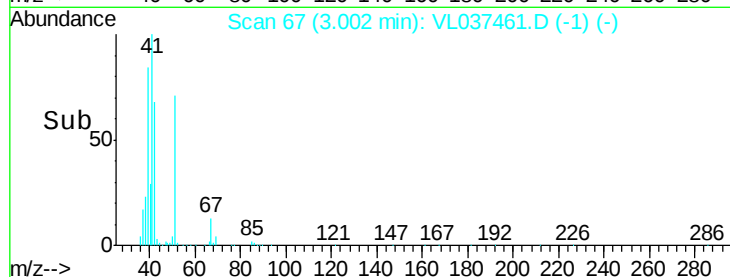
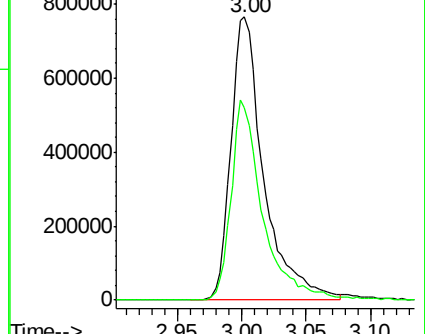
MMDadoda

8/19/2021 5:59:17 PM



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 14.332 ppbv

RT: 8.11 min Scan# 1655

Delta R.T. 0.01 min

Lab File: VL037461.D

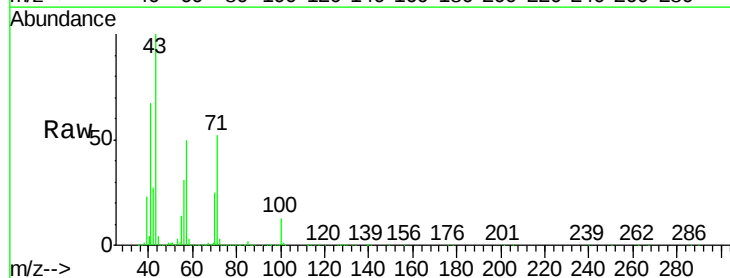
Acq: 16 Aug 2021 14:18

Tgt Ion: 43 Resp: 3460991

Ion Ratio Lower Upper

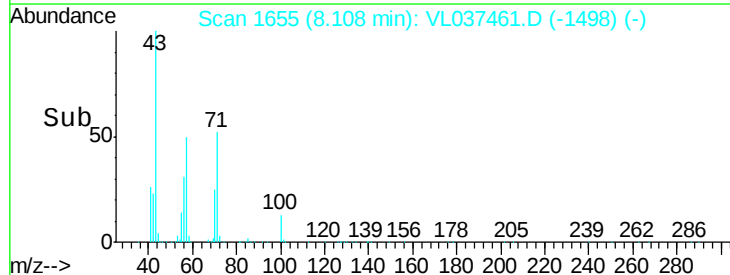
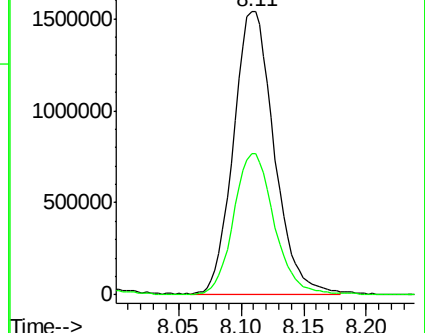
43 100

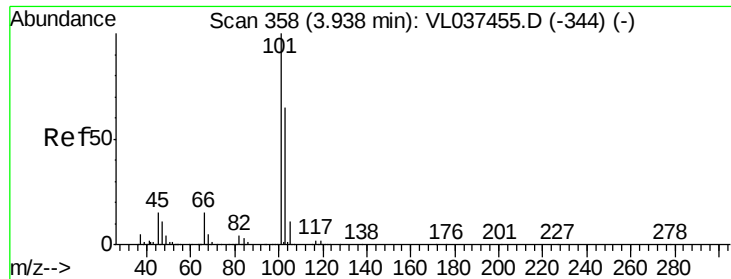
57 50.4 41.0 61.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





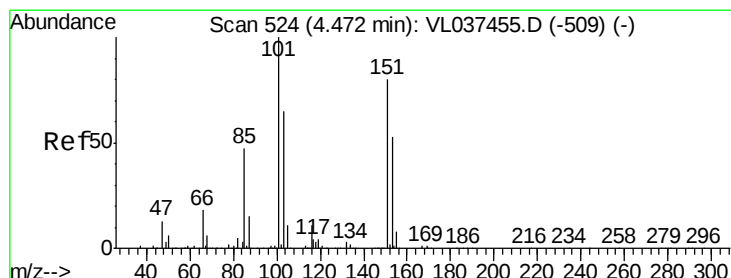
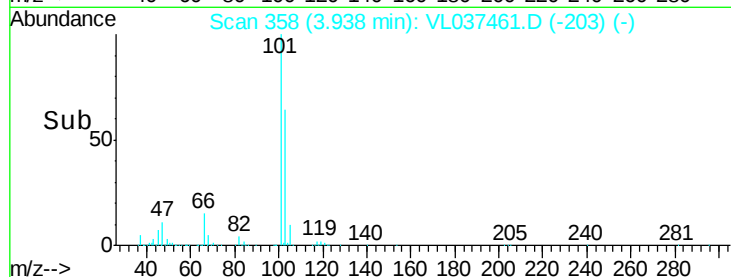
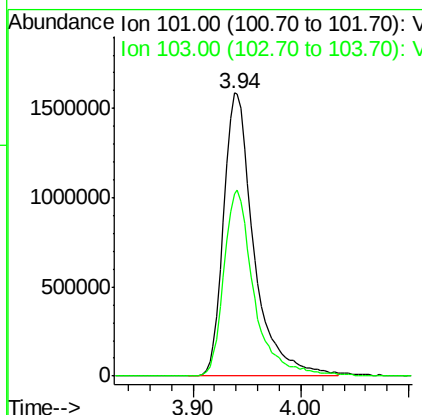
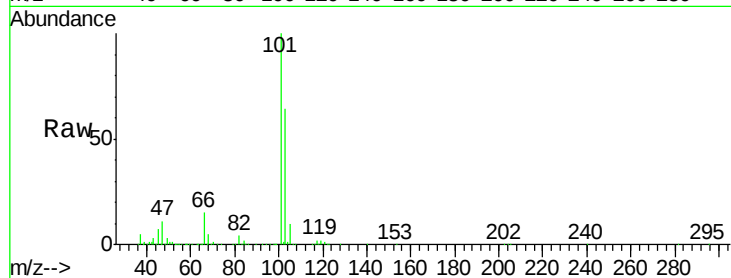
#11
 Trichlorofluoromethane
 Concen: 12.501 ppbv
 RT: 3.94 min Scan# 358
 Delta R.T. -0.00 min
 Lab File: VL037461.D
 Acq: 16 Aug 2021 14:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:101 Resp: 3112381
 Ion Ratio Lower Upper
 101 100
 103 64.3 51.8 77.6

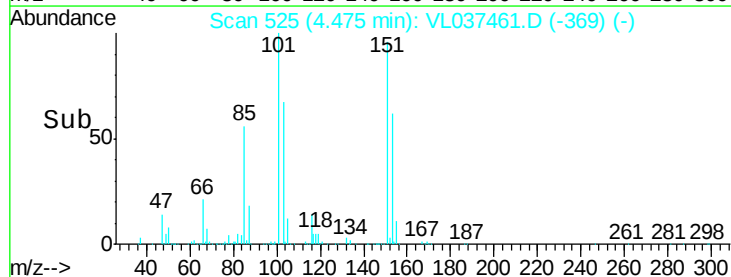
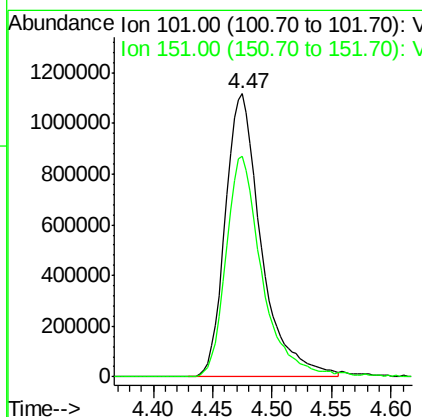
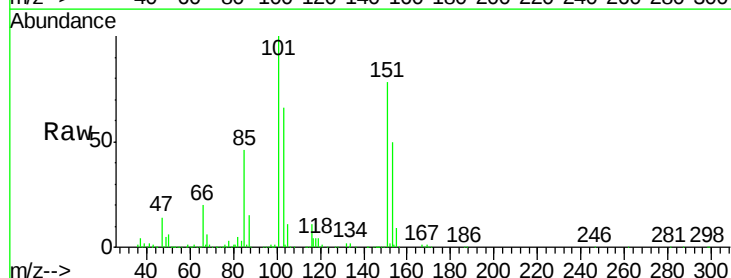
Manual Integrations
 APPROVED

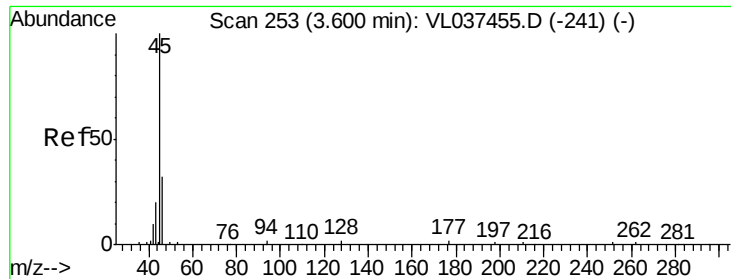
MMDadoda
 8/19/2021 5:59:17 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 13.442 ppbv
 RT: 4.47 min Scan# 525
 Delta R.T. 0.00 min
 Lab File: VL037461.D
 Acq: 16 Aug 2021 14:18

Tgt Ion:101 Resp: 2344367
 Ion Ratio Lower Upper
 101 100
 151 78.7 63.7 95.5





#13

Ethanol

Concen: 12.515 ppbv m

RT: 3.60 min Scan# 252

Delta R.T. -0.00 min

Lab File: VL037461.D

Acq: 16 Aug 2021 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 45 Resp: 132631

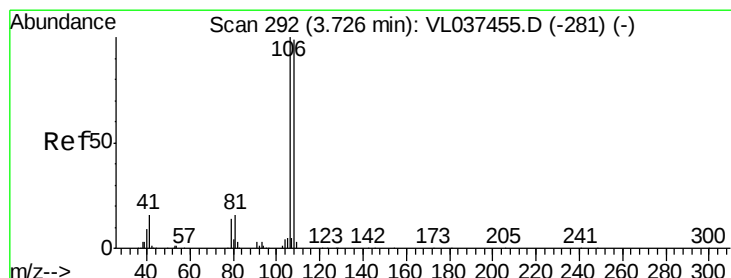
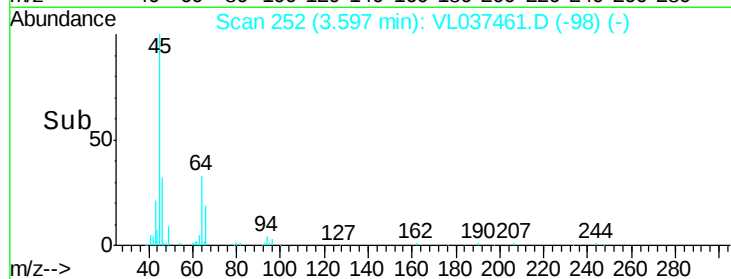
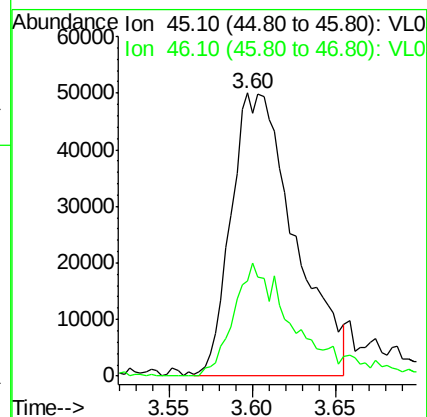
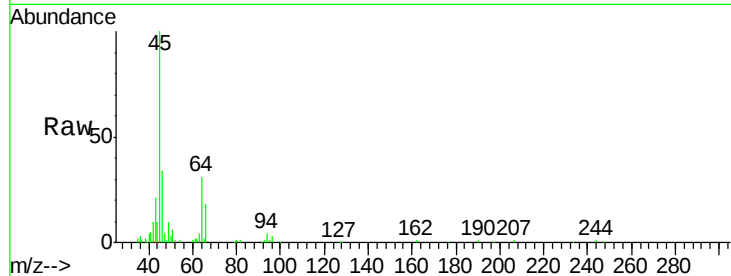
Ion Ratio Lower Upper

45 100

46 41.7 14.1 56.5

Manual Integrations
APPROVED

MMDadoda
8/19/2021 5:59:17 PM



#14

Bromoethene

Concen: 13.733 ppbv m

RT: 3.73 min Scan# 293

Delta R.T. 0.00 min

Lab File: VL037461.D

Acq: 16 Aug 2021 14:18

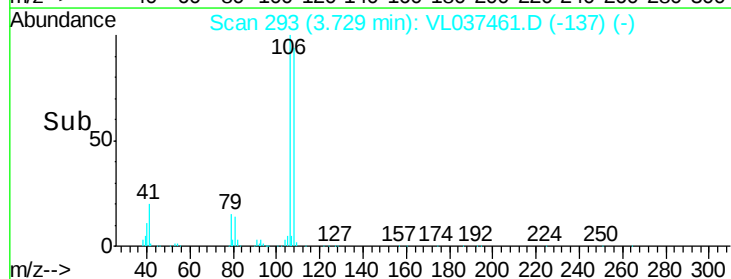
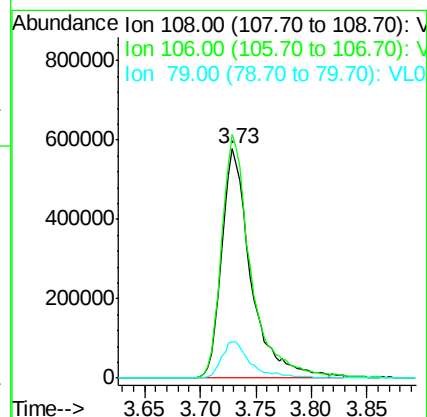
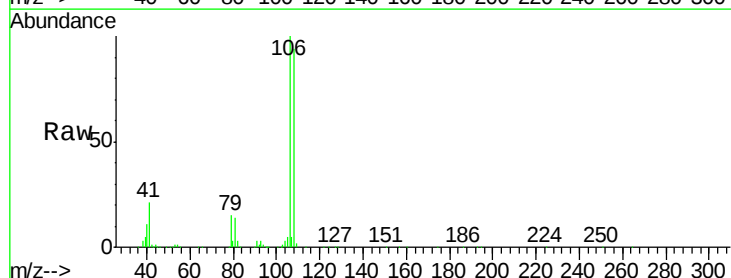
Tgt Ion: 108 Resp: 1065380

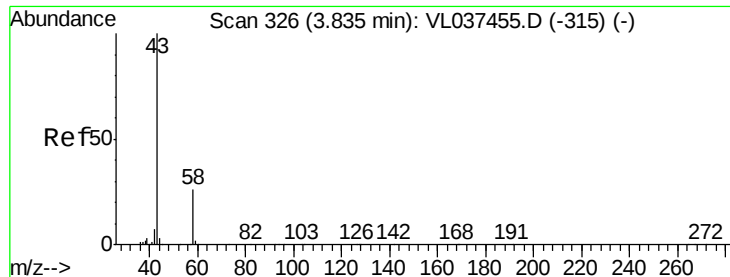
Ion Ratio Lower Upper

108 100

106 107.1 85.8 128.8

79 16.1 12.6 18.8





#15

Acetone

Concen: 11.253 ppbv

RT: 3.84 min Scan# 327

Delta R.T. 0.00 min

Lab File: VL037461.D

Acq: 16 Aug 2021 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 1797233

Ion Ratio Lower Upper

43 100

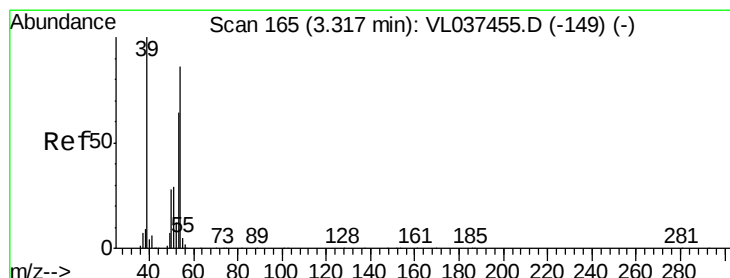
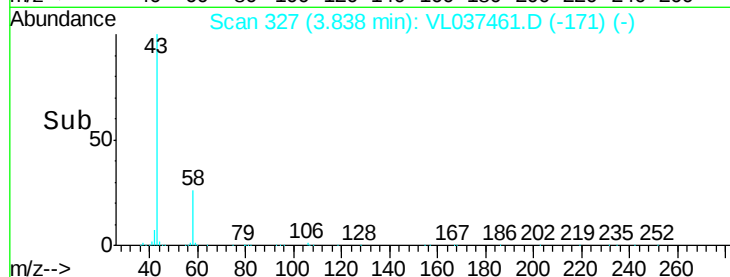
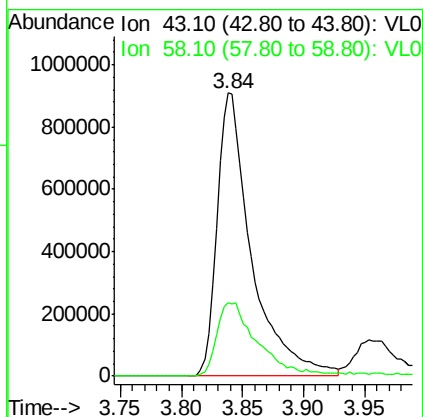
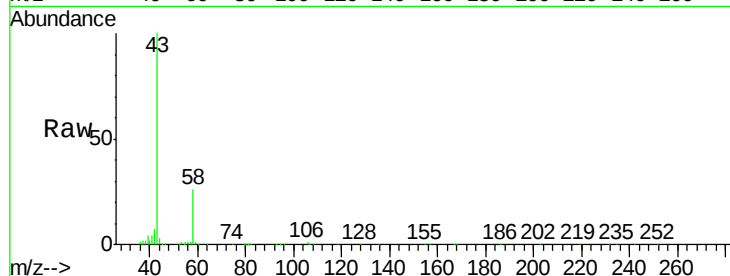
58 30.7 24.8 37.2

Manual Integrations

APPROVED

MMDadoda

8/19/2021 5:59:17 PM



#16

1,3-Butadiene

Concen: 13.291 ppbv

RT: 3.32 min Scan# 165

Delta R.T. -0.00 min

Lab File: VL037461.D

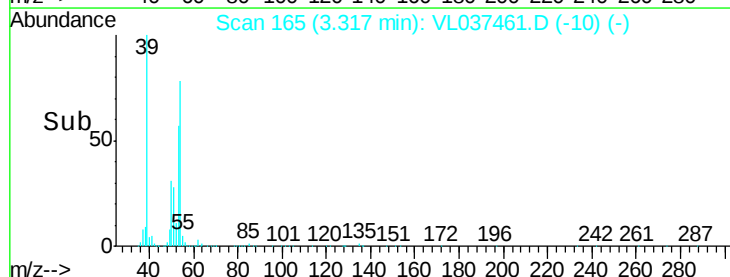
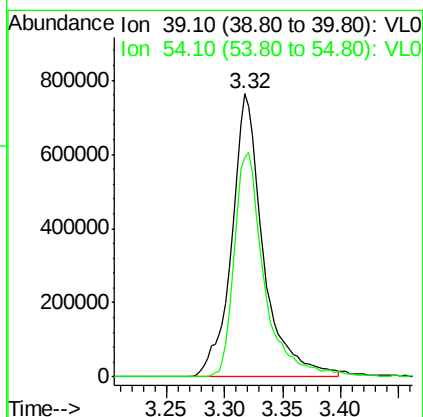
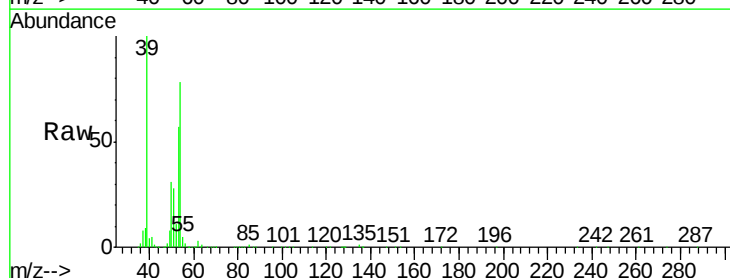
Acq: 16 Aug 2021 14:18

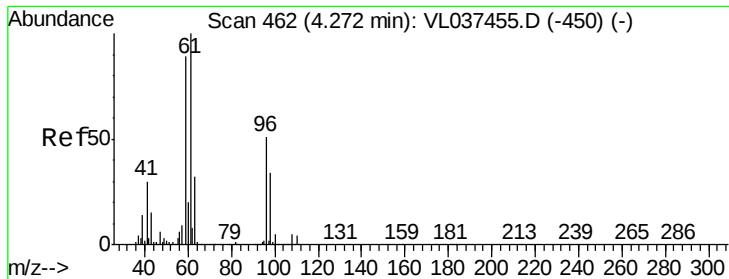
Tgt Ion: 39 Resp: 1424676

Ion Ratio Lower Upper

39 100

54 76.7 63.7 95.5





#17

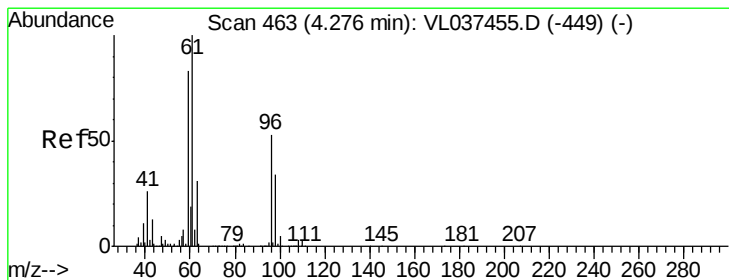
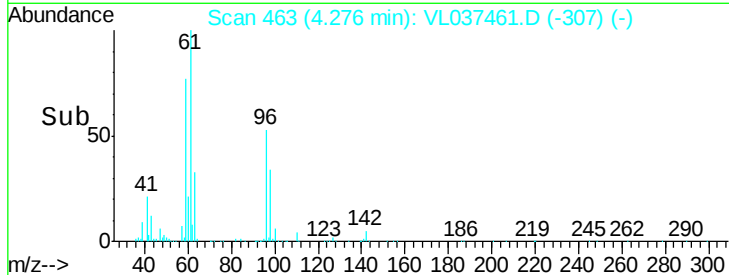
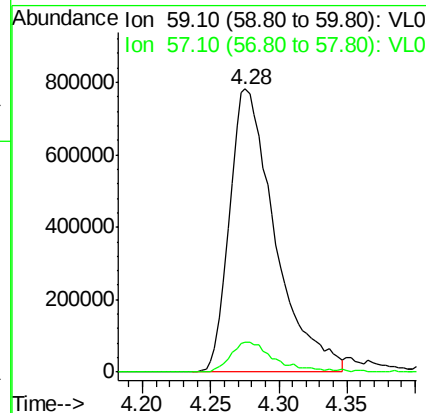
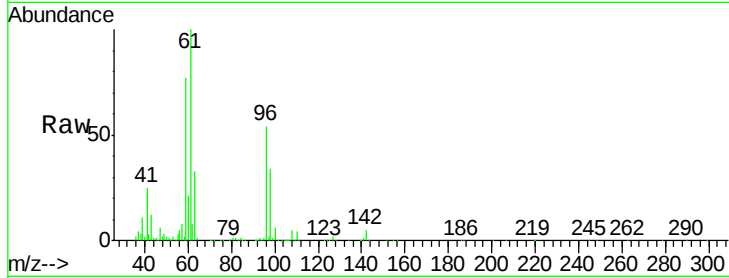
tert-Butyl alcohol
 Concen: 11.900 ppbv
 RT: 4.28 min Scan# 463
 Delta R.T. 0.00 min
 Lab File: VL037461.D
 Acq: 16 Aug 2021 14:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 59 Resp: 1814077
 Ion Ratio Lower Upper
 59 100
 57 10.6 8.3 12.5

Manual Integrations
 APPROVED

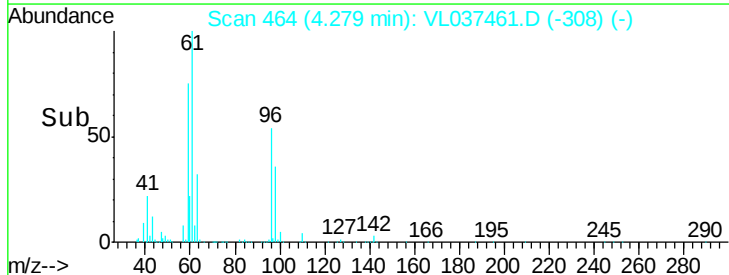
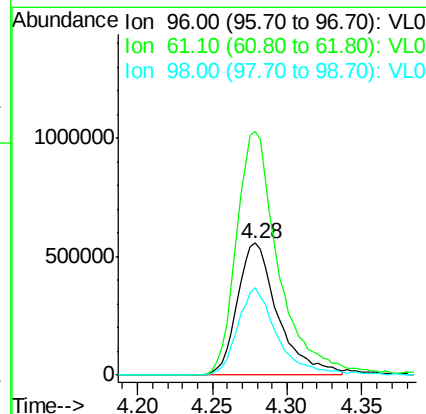
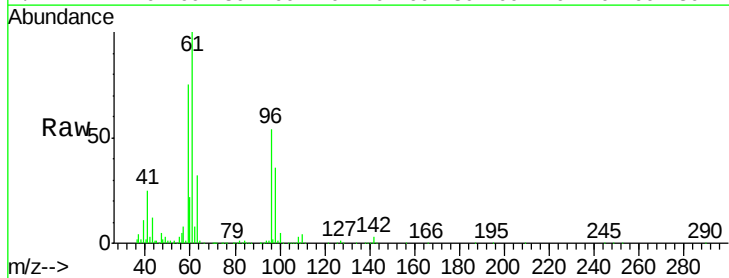
MMDadoda
 8/19/2021 5:59:17 PM

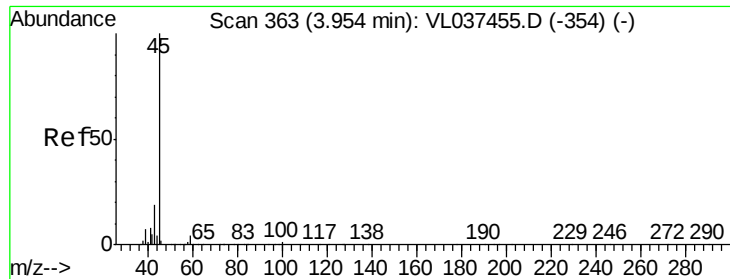


#18

1,1-Dichloroethene
 Concen: 13.031 ppbv
 RT: 4.28 min Scan# 464
 Delta R.T. 0.00 min
 Lab File: VL037461.D
 Acq: 16 Aug 2021 14:18

Tgt Ion: 96 Resp: 1055177
 Ion Ratio Lower Upper
 96 100
 61 184.2 151.1 226.7
 98 66.0 51.8 77.8





#19

Isopropyl Alcohol

Concen: 11.516 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.00 min

Lab File: VL037461.D

Acq: 16 Aug 2021 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 45 Resp: 1070430

Ion Ratio Lower Upper

45 100

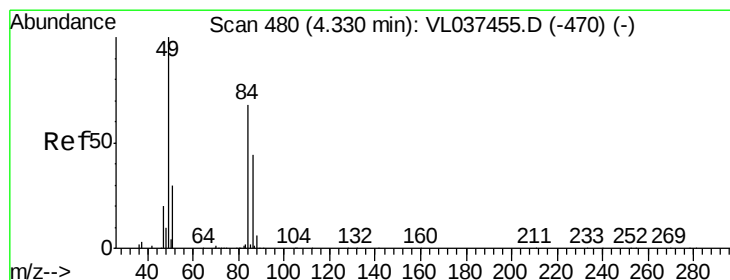
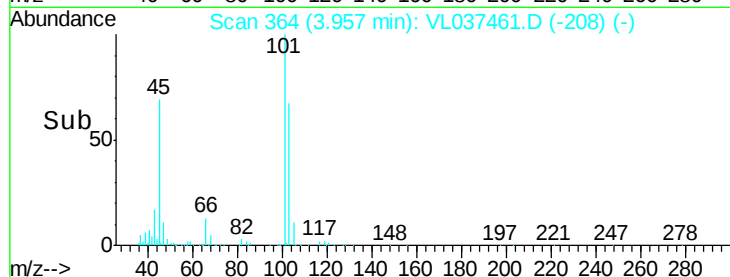
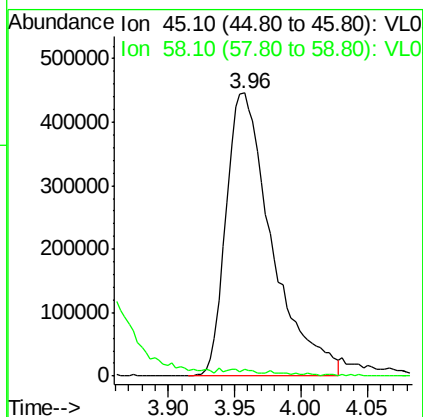
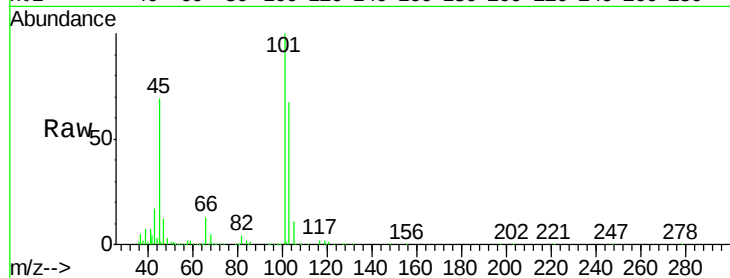
58 2.1 1.4 2.2

Manual Integrations

APPROVED

MMDadoda

8/19/2021 5:59:17 PM



#20

Methylene Chloride

Concen: 10.846 ppbv

RT: 4.33 min Scan# 481

Delta R.T. 0.00 min

Lab File: VL037461.D

Acq: 16 Aug 2021 14:18

Tgt Ion: 84 Resp: 915964

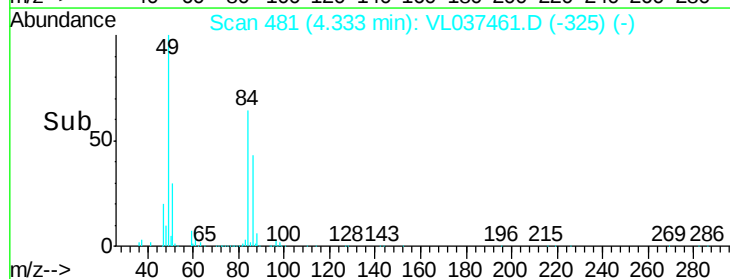
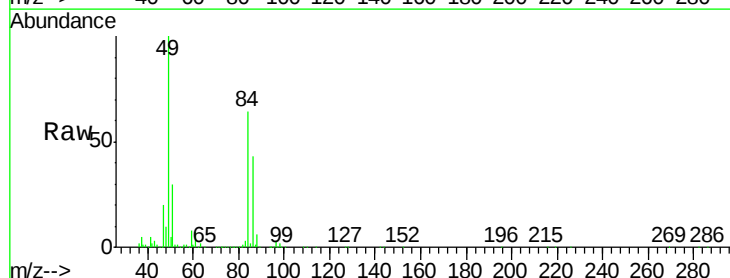
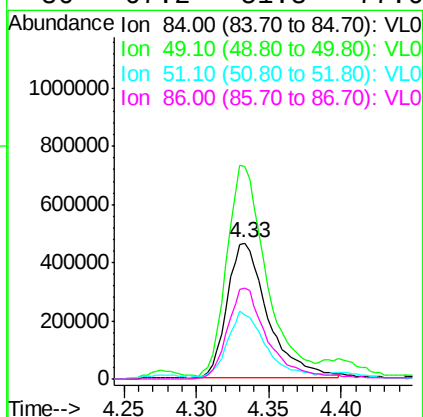
Ion Ratio Lower Upper

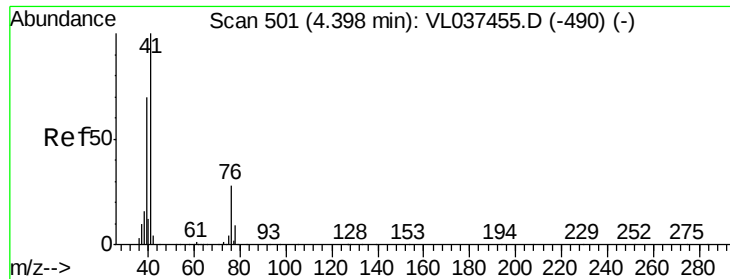
84 100

49 153.9 118.2 177.2

51 46.2 36.6 55.0

86 67.2 51.8 77.6





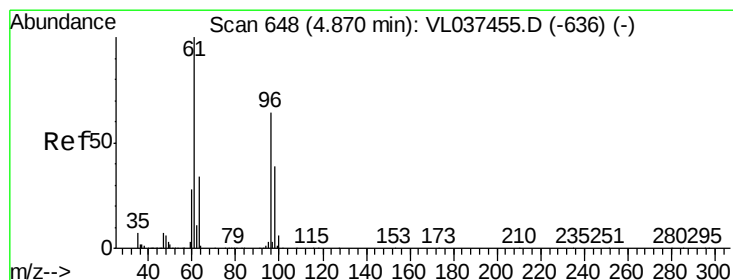
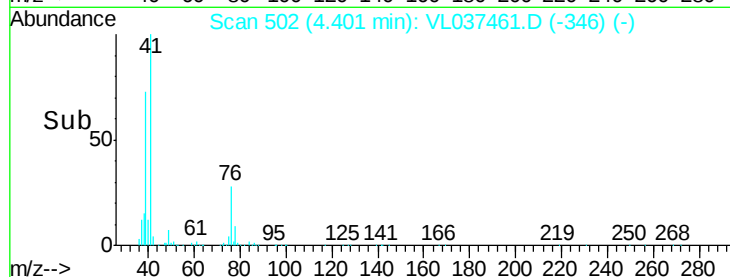
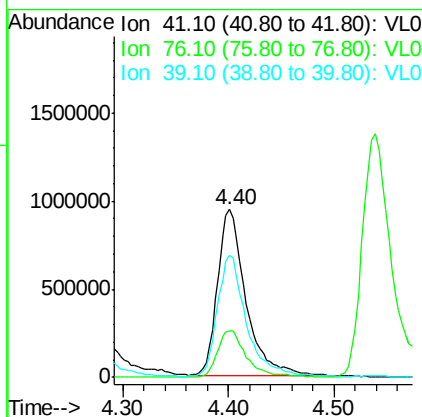
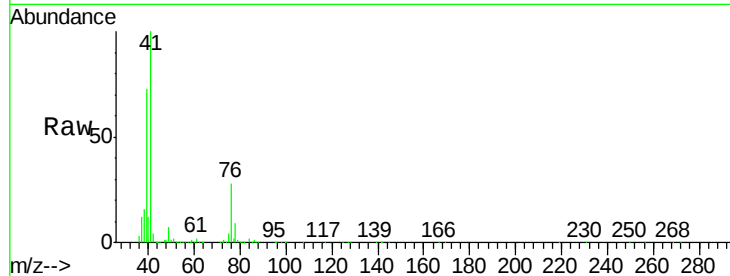
#21
Allvl Chloride
Concen: 14.098 ppbv
RT: 4.40 min Scan# 502
Delta R.T. 0.00 min
Lab File: VL037461.D
Acq: 16 Aug 2021 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 41 Resp: 1764385
Ion Ratio Lower Upper
41 100
76 28.7 21.8 32.6
39 75.0 56.8 85.2

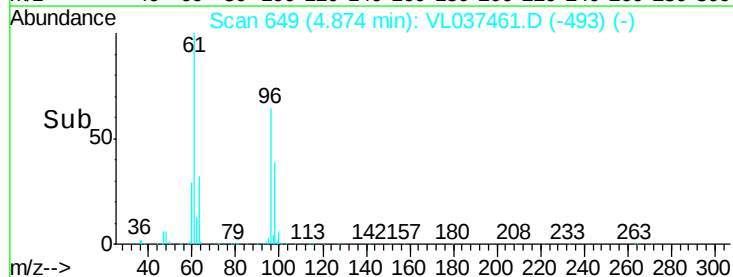
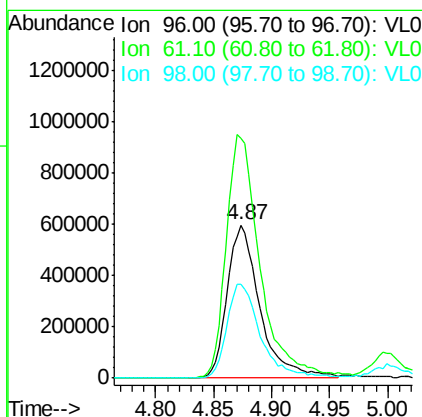
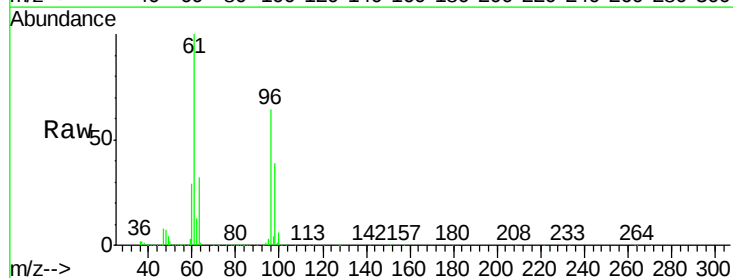
Manual Integrations
APPROVED

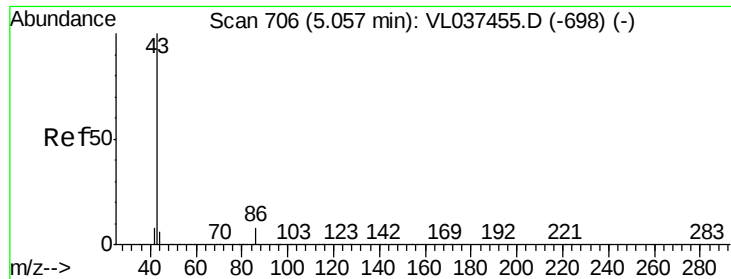
MMDadoda
8/19/2021 5:59:17 PM



#22
trans-1,2-Dichloroethene
Concen: 15.288 ppbv
RT: 4.87 min Scan# 649
Delta R.T. 0.00 min
Lab File: VL037461.D
Acq: 16 Aug 2021 14:18

Tgt Ion: 96 Resp: 1161194
Ion Ratio Lower Upper
96 100
61 157.1 125.5 188.3
98 61.3 49.0 73.4





#23

Vinyl Acetate

Concen: 11.369 ppbv

RT: 5.06 min Scan# 707

Delta R.T. 0.00 min

Lab File: VL037461.D

Acq: 16 Aug 2021 14:18

Tot Ion: 43 Resp: 2786193

Ion Ratio Lower Upper

43 100

86 7.4 5.7 8.5

42 10.0 7.4 11.2

44 5.0 4.3 6.5

Instrument :

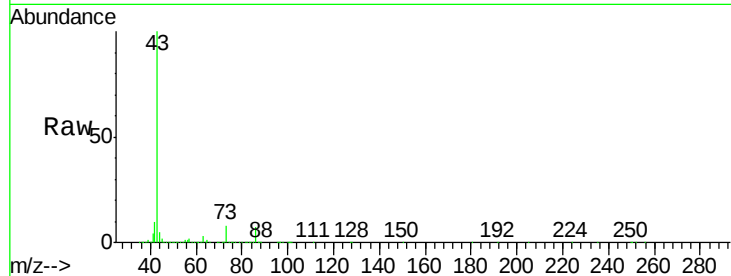
MSVOA_L

ClientSampleId :

VSTDIC015

Manual Integrations
APPROVED

MMDadoda
8/19/2021 5:59:17 PM

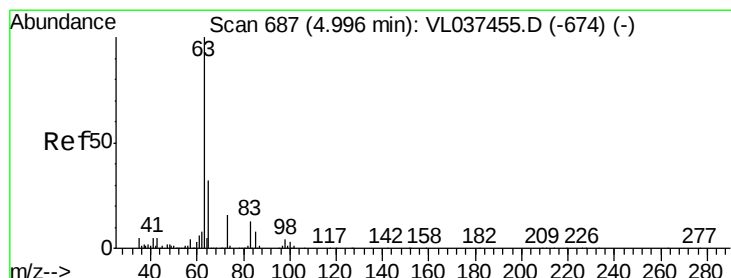
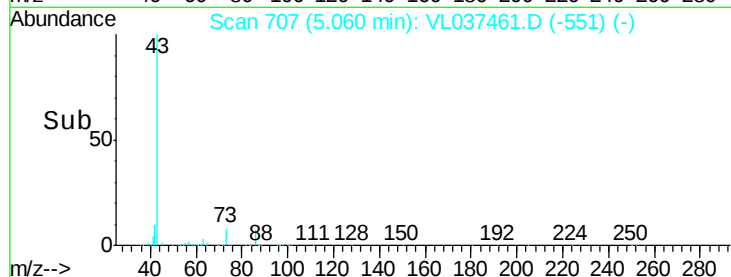
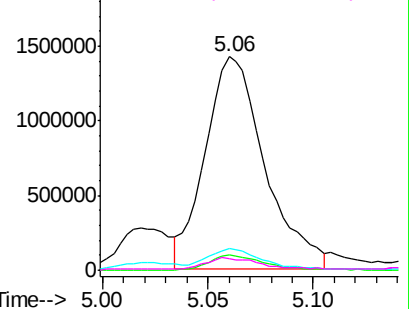


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 11.466 ppbv

RT: 5.00 min Scan# 688

Delta R.T. 0.00 min

Lab File: VL037461.D

Acq: 16 Aug 2021 14:18

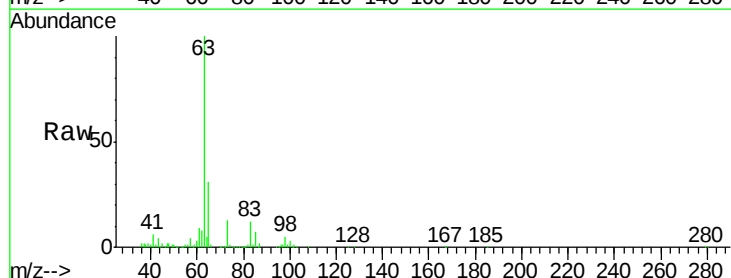
Tgt Ion: 63 Resp: 2182417

Ion Ratio Lower Upper

63 100

98 5.0 2.1 6.3

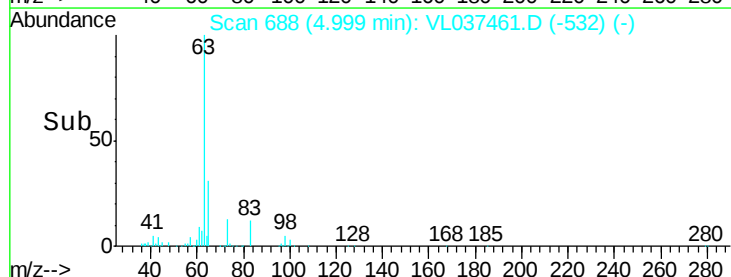
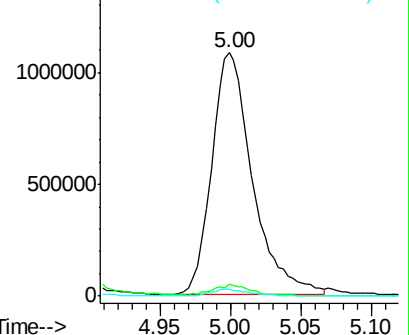
100 3.0 1.6 4.7

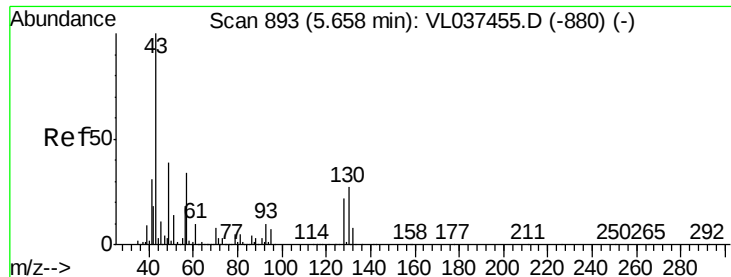


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 14.071 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.01 min

Lab File: VL037461.D

Acq: 16 Aug 2021 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 5355815

Ion Ratio Lower Upper

43 100

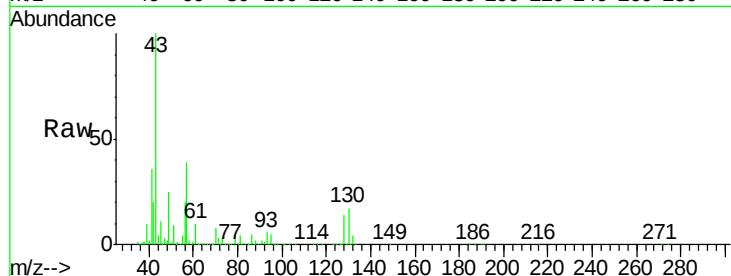
45 9.9 8.0 12.0

61 10.2 8.0 12.0

70 7.2 5.6 8.4

Manual Integrations
APPROVED

MMDadoda
8/19/2021 5:59:17 PM

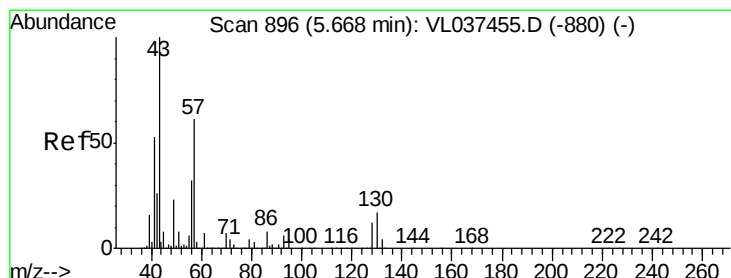
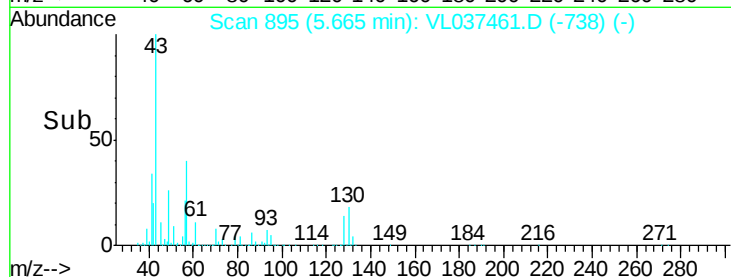
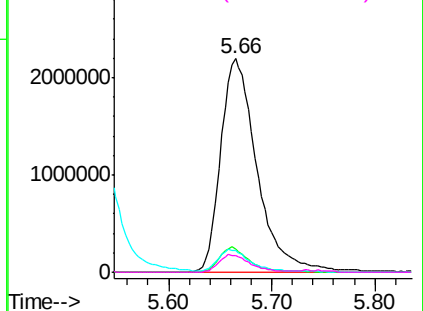


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 12.848 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.01 min

Lab File: VL037461.D

Acq: 16 Aug 2021 14:18

Tgt Ion: 57 Resp: 2523659

Ion Ratio Lower Upper

57 100

41 90.3 72.3 108.5

43 214.4 172.3 258.5

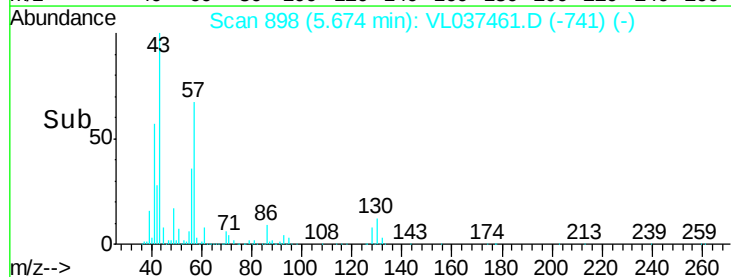
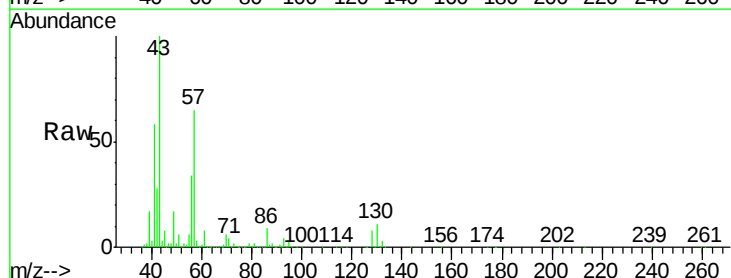
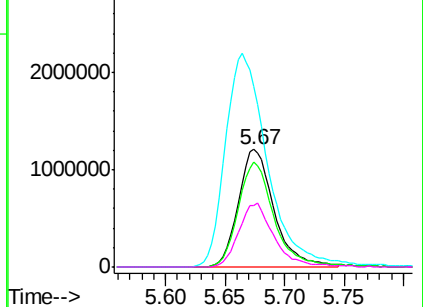
56 53.8 42.8 64.2

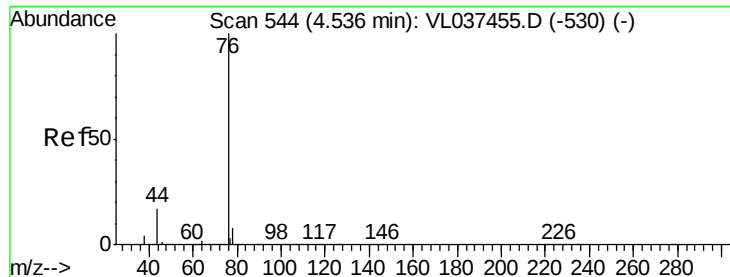
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 16.442 ppbv

RT: 4.54 min Scan# 545

Delta R.T. 0.00 min

Lab File: VL037461.D

Acq: 16 Aug 2021 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 76 Resp: 2722847

Ion Ratio Lower Upper

76 100

44 17.4 13.9 20.9

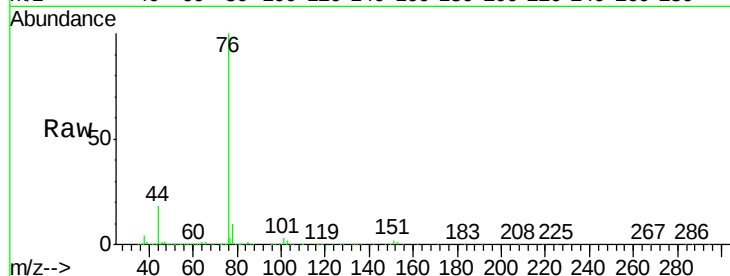
78 9.5 7.9 11.9

Manual Integrations

APPROVED

MMDadoda

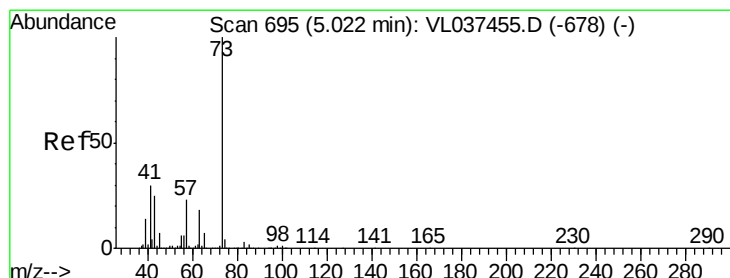
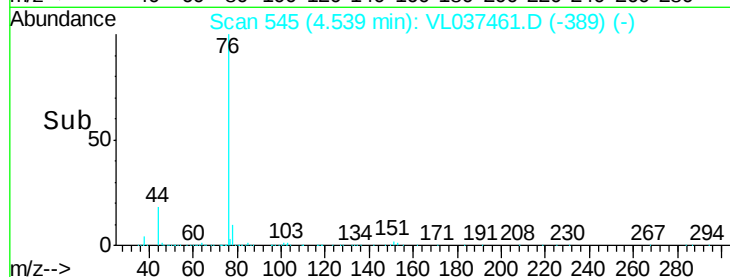
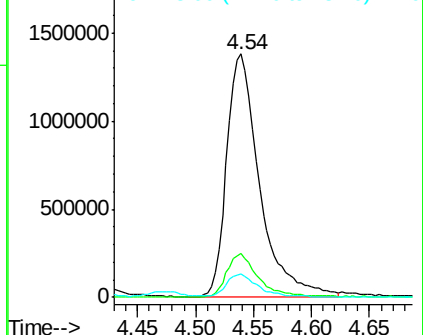
8/19/2021 5:59:17 PM



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: 10.881 ppbv

RT: 5.02 min Scan# 696

Delta R.T. 0.00 min

Lab File: VL037461.D

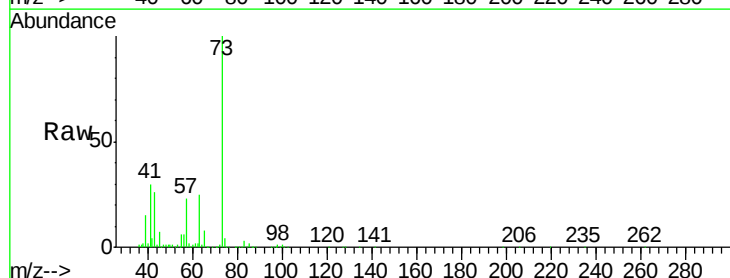
Acq: 16 Aug 2021 14:18

Tgt Ion: 73 Resp: 2287366

Ion Ratio Lower Upper

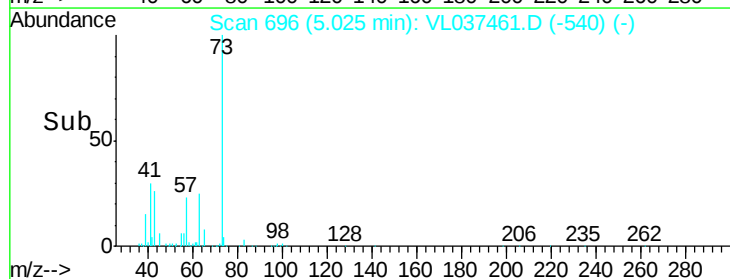
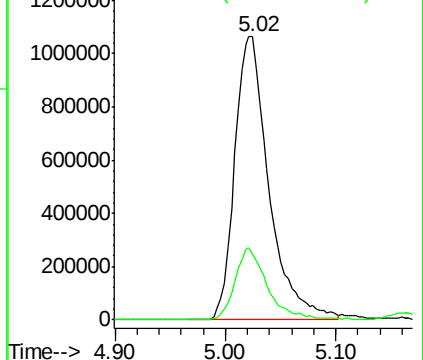
73 100

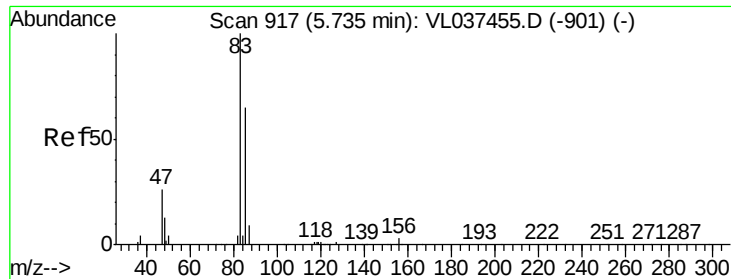
57 24.4 19.4 29.2



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





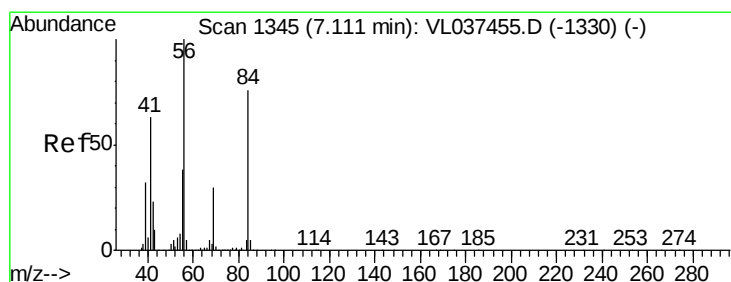
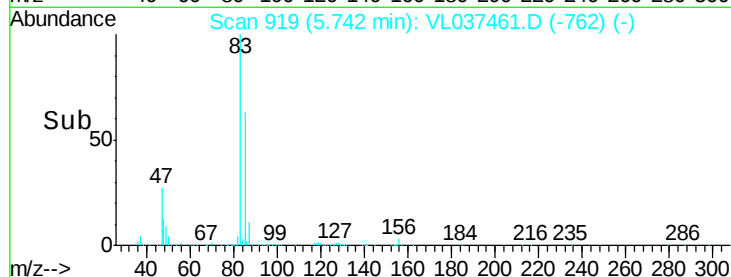
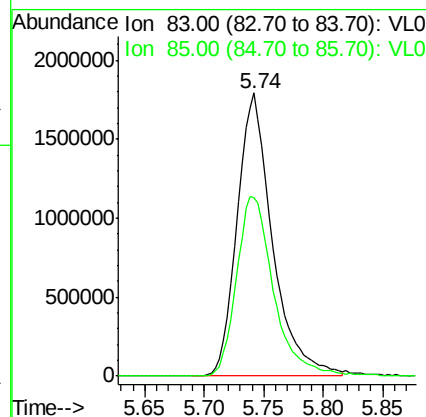
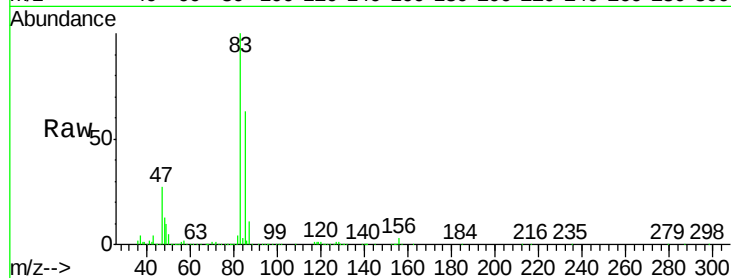
#29
Chloroform
Concen: 13.329 ppbv
RT: 5.74 min Scan# 919
Delta R.T. 0.01 min
Lab File: VL037461.D
Acq: 16 Aug 2021 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 3686289
Ion Ratio Lower Upper
83 100
85 62.9 52.3 78.5

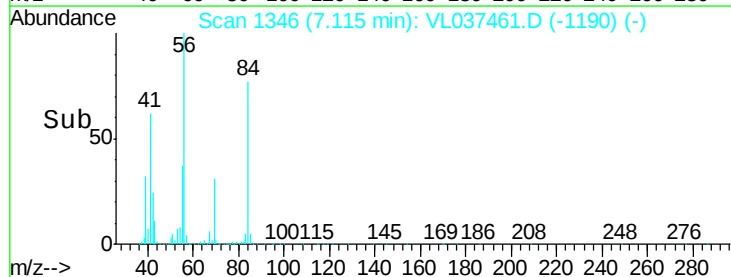
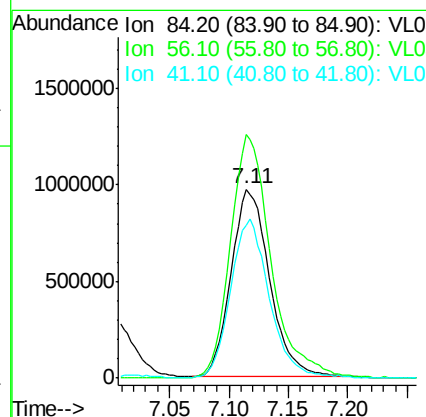
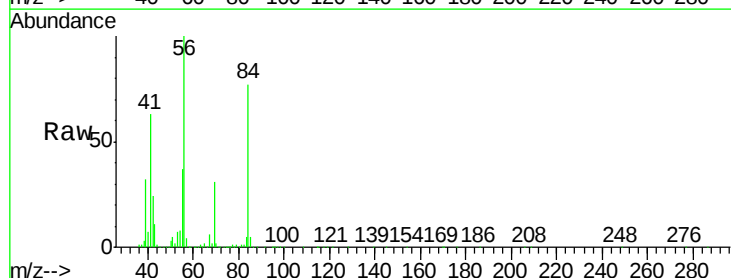
Manual Integrations
APPROVED

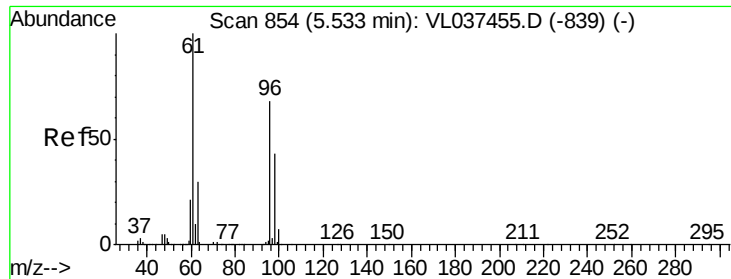
MMDadoda
8/19/2021 5:59:17 PM



#30
Cyclohexane
Concen: 13.502 ppbv
RT: 7.11 min Scan# 1346
Delta R.T. 0.00 min
Lab File: VL037461.D
Acq: 16 Aug 2021 14:18

Tgt Ion: 84 Resp: 2184242
Ion Ratio Lower Upper
84 100
56 137.2 110.6 165.8
41 84.6 67.0 100.6





#31

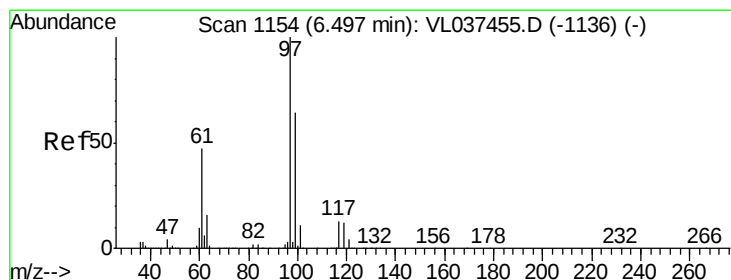
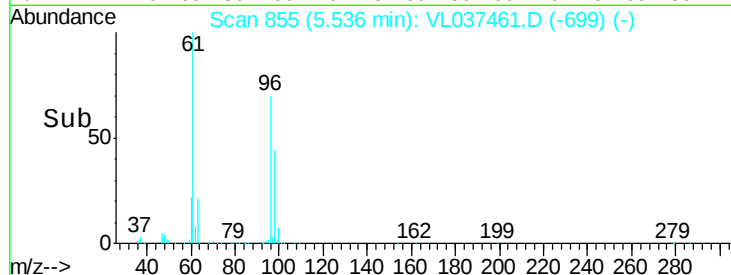
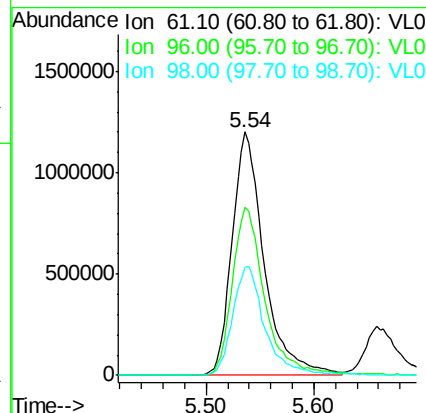
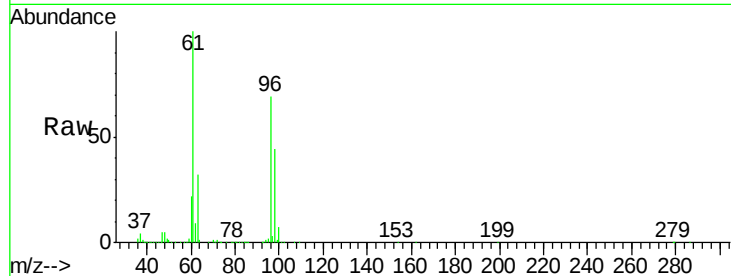
cis-1,2-Dichloroethene
 Concen: 14.607 ppbv
 RT: 5.54 min Scan# 855
 Delta R.T. 0.00 min
 Lab File: VL037461.D
 Acq: 16 Aug 2021 14:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
61	100		
96	69.1	54.8	82.2
98	44.2	34.2	51.2

Manual Integrations
 APPROVED

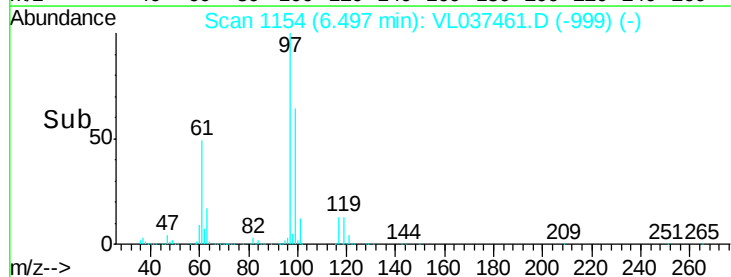
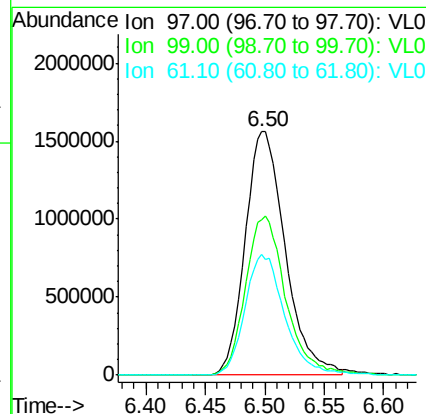
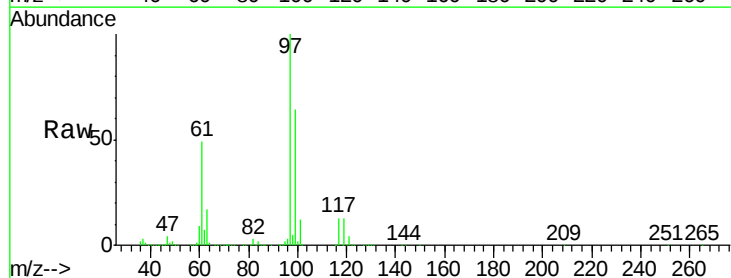
MMDadoda
 8/19/2021 5:59:17 PM

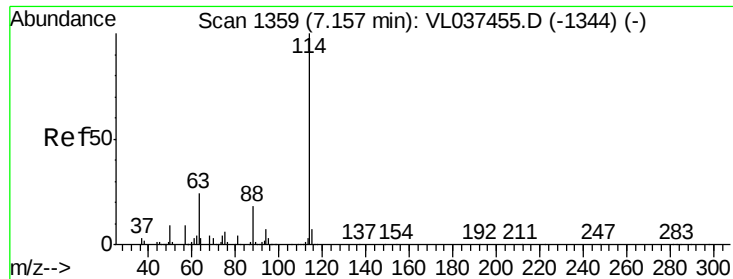


#32

1,1,1-Trichloroethane
 Concen: 13.063 ppbv
 RT: 6.50 min Scan# 1154
 Delta R.T. -0.00 min
 Lab File: VL037461.D
 Acq: 16 Aug 2021 14:18

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.7	51.8	77.6
61	49.3	39.6	59.4





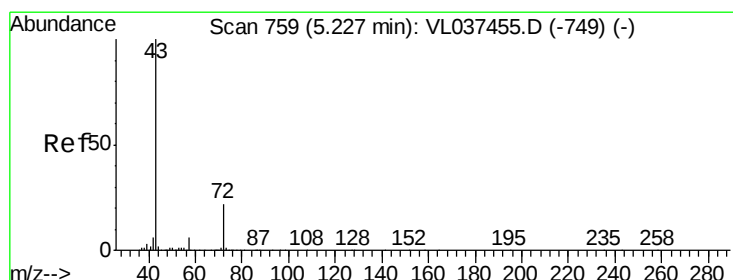
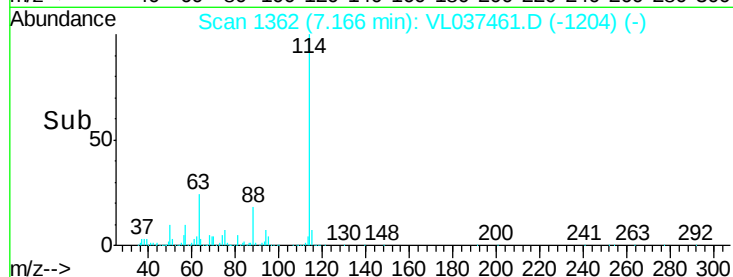
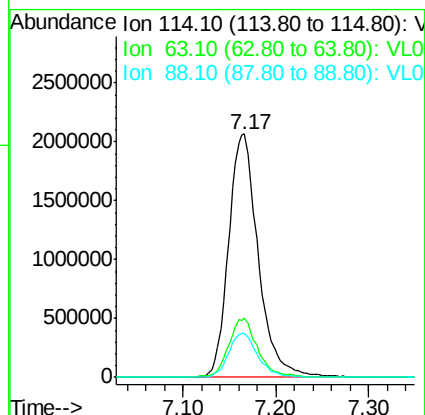
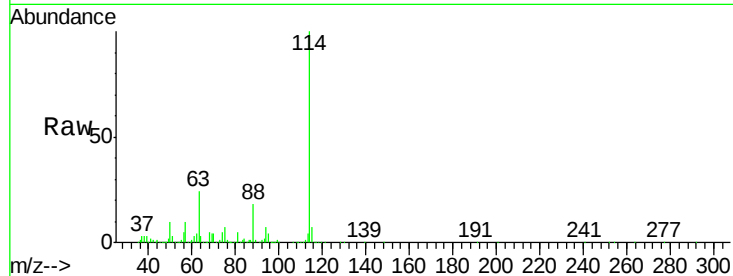
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. 0.01 min
 Lab File: VL037461.D
 Acq: 16 Aug 2021 14:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:114 Resp: 4567279
 Ion Ratio Lower Upper
 114 100
 63 24.0 19.3 28.9
 88 18.0 14.2 21.4

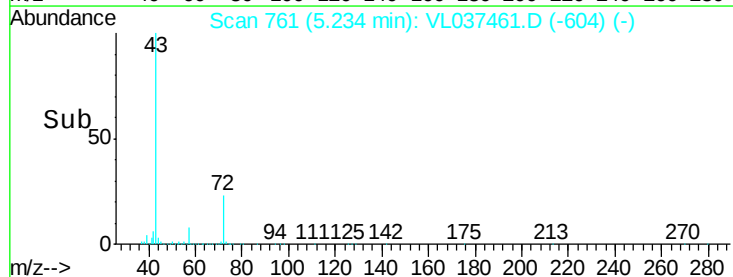
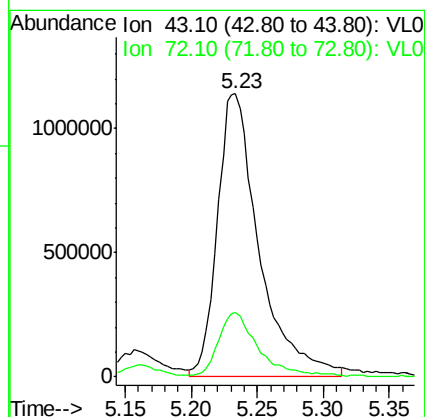
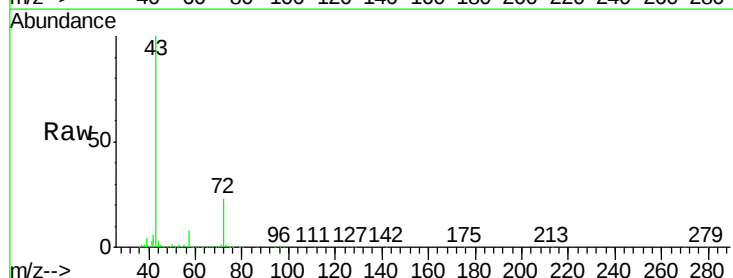
Manual Integrations
 APPROVED

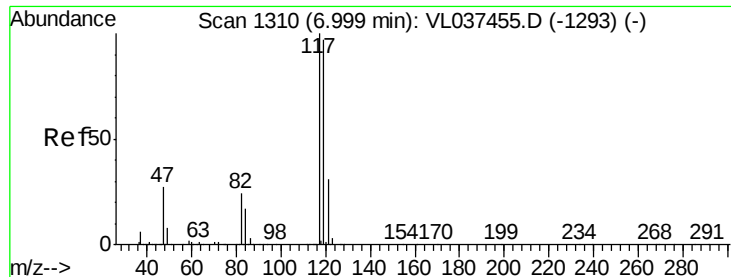
MMDadoda
 8/19/2021 5:59:17 PM



#34
 2-Butanone
 Concen: 13.384 ppbv m
 RT: 5.23 min Scan# 761
 Delta R.T. 0.01 min
 Lab File: VL037461.D
 Acq: 16 Aug 2021 14:18

Tgt Ion: 43 Resp: 2523696
 Ion Ratio Lower Upper
 43 100
 72 21.6 17.4 26.0





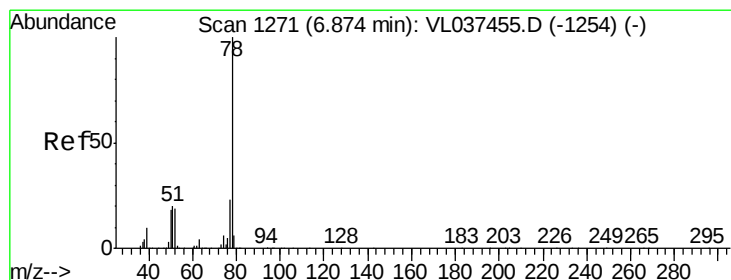
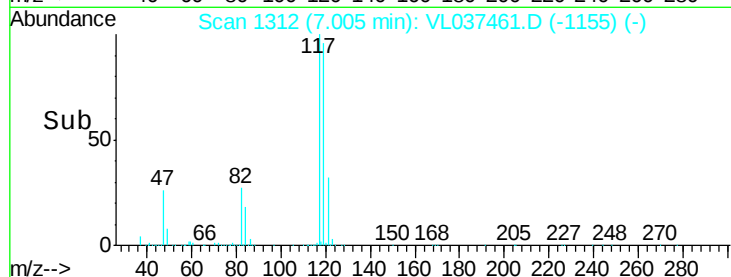
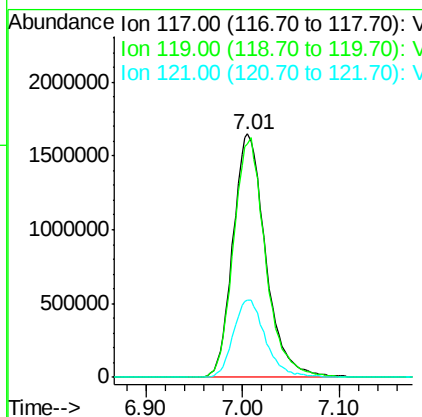
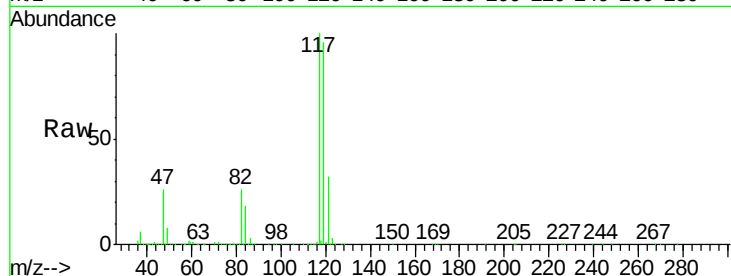
#35
Carbon Tetrachloride
Concen: 13.689 ppbv
RT: 7.01 min Scan# 1312
Delta R.T. 0.01 min
Lab File: VL037461.D
Acq: 16 Aug 2021 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:117 Resp: 3855554
Ion Ratio Lower Upper
117 100
119 95.8 77.3 115.9
121 31.7 25.2 37.8

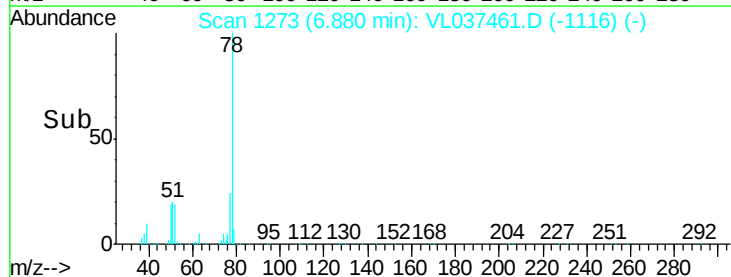
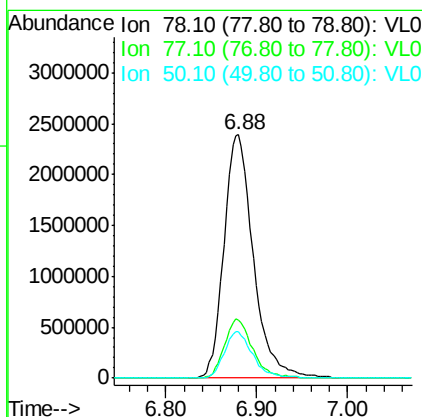
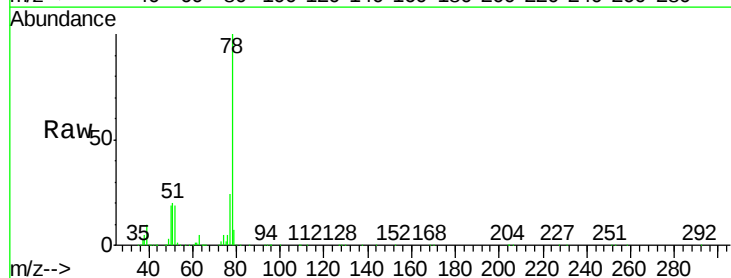
Manual Integrations
APPROVED

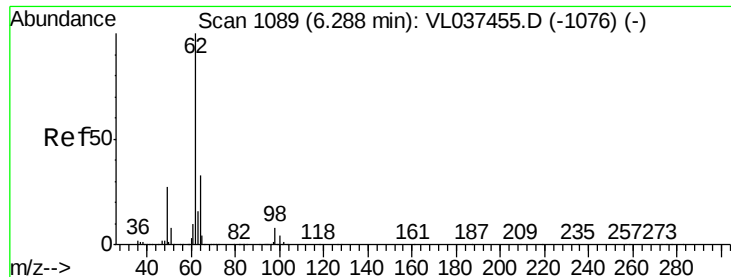
MMDadoda
8/19/2021 5:59:17 PM



#36
Benzene
Concen: 13.901 ppbv
RT: 6.88 min Scan# 1273
Delta R.T. 0.01 min
Lab File: VL037461.D
Acq: 16 Aug 2021 14:18

Tgt Ion: 78 Resp: 5353625
Ion Ratio Lower Upper
78 100
77 24.1 18.2 27.4
50 19.1 14.6 21.8





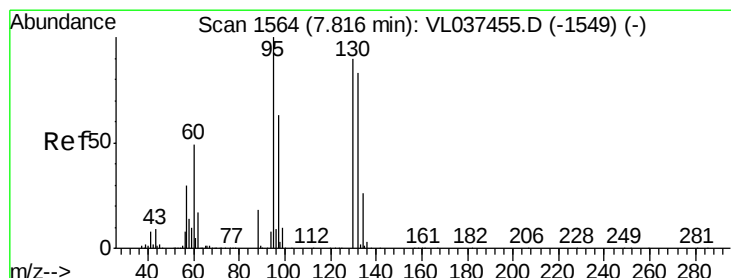
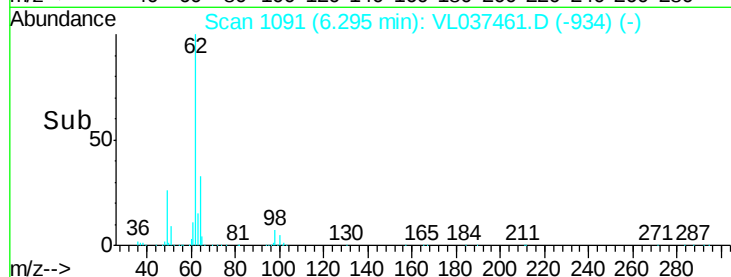
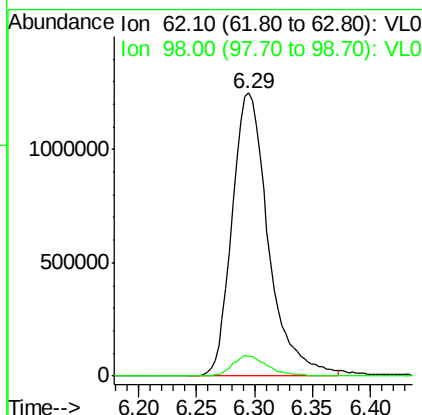
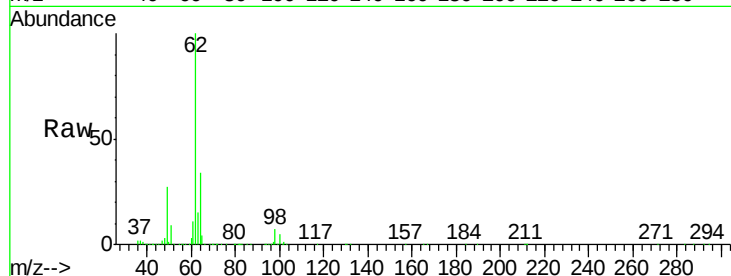
#37
 1,2-Dichloroethane
 Concen: 13.815 ppbv
 RT: 6.29 min Scan# 1091
 Delta R.T. 0.01 min
 Lab File: VL037461.D
 Acq: 16 Aug 2021 14:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 62 Resp: 2715219
 Ion Ratio Lower Upper
 62 100
 98 7.2 6.0 9.0

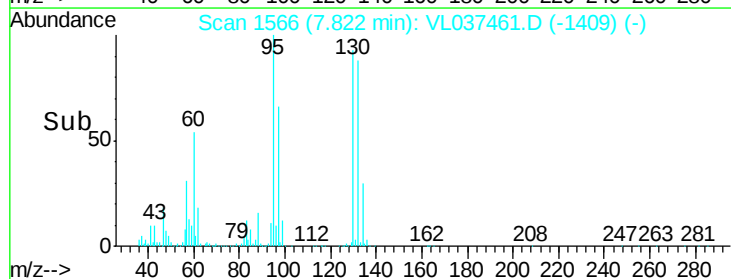
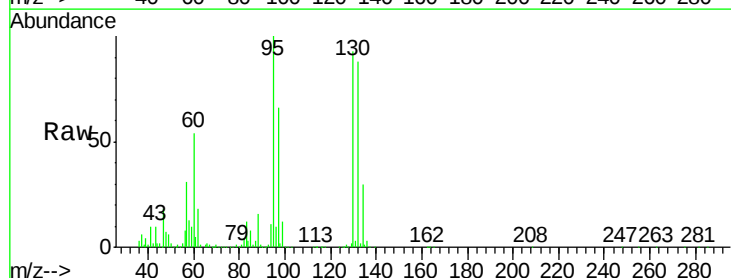
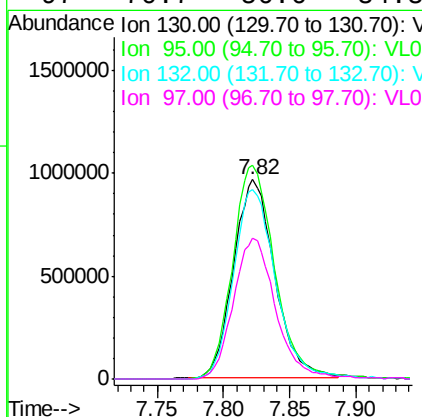
Manual Integrations
 APPROVED

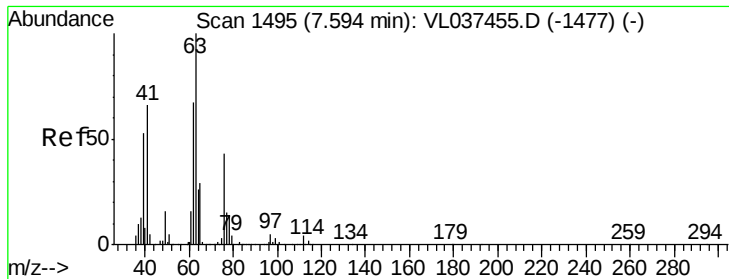
MMDadoda
 8/19/2021 5:59:17 PM



#38
 Trichloroethene
 Concen: 12.245 ppbv
 RT: 7.82 min Scan# 1566
 Delta R.T. 0.01 min
 Lab File: VL037461.D
 Acq: 16 Aug 2021 14:18

Tgt Ion:130 Resp: 2081364
 Ion Ratio Lower Upper
 130 100
 95 107.8 89.2 133.8
 132 95.4 74.0 111.0
 97 70.7 56.6 84.8





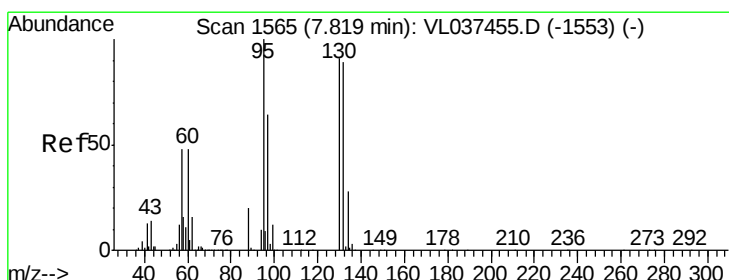
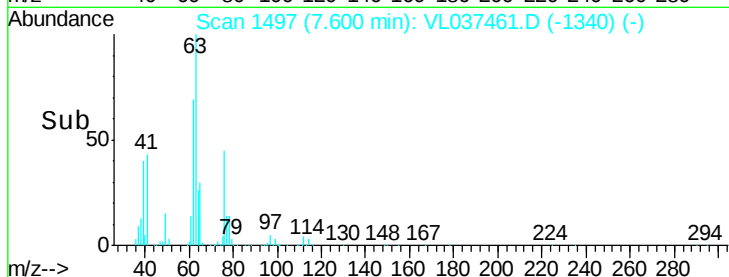
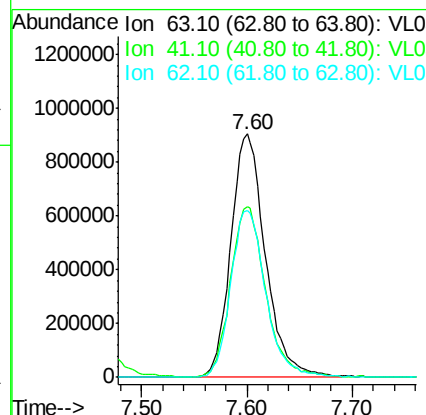
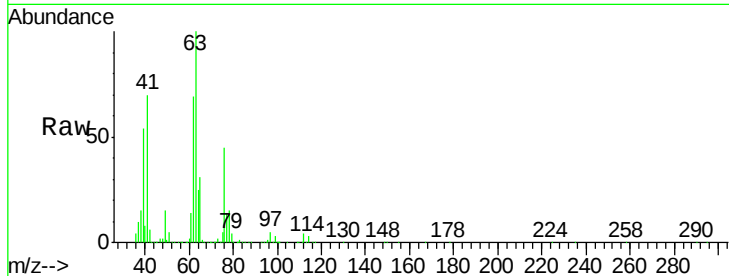
#39
 1,2-Dichloropropane
 Concen: 13.946 ppbv
 RT: 7.60 min Scan# 1497
 Delta R.T. 0.01 min
 Lab File: VL037461.D
 Acq: 16 Aug 2021 14:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
63	100		
41	69.9	52.4	78.6
62	68.8	53.6	80.4

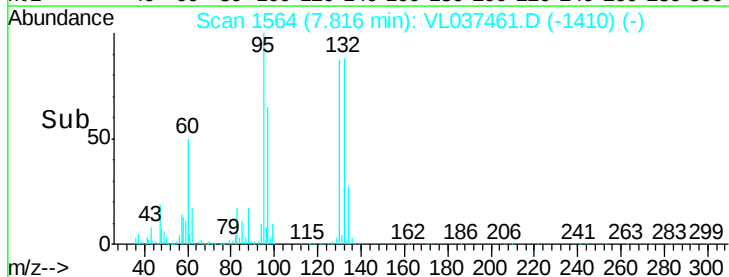
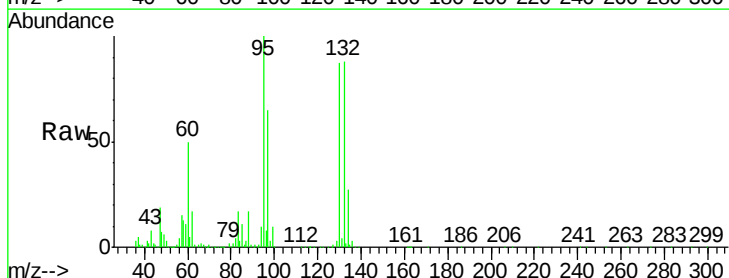
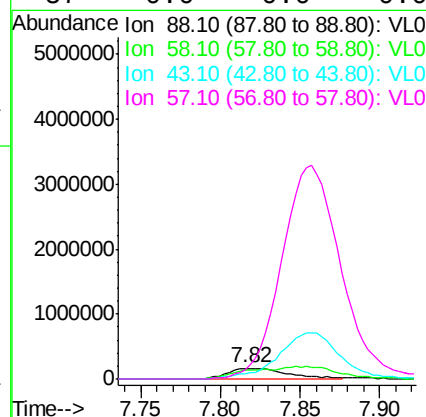
Manual Integrations
 APPROVED

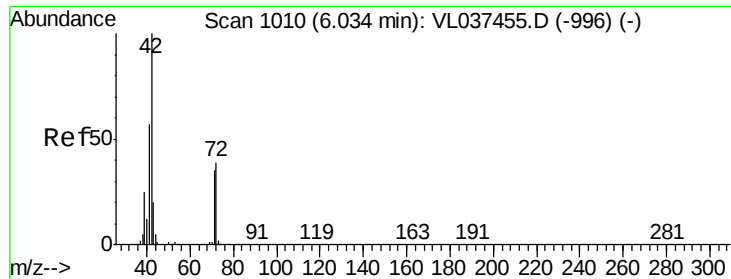
MMDadoda
 8/19/2021 5:59:17 PM



#40
 1,4-Dioxane
 Concen: 12.397 ppbv m
 RT: 7.82 min Scan# 1564
 Delta R.T. -0.00 min
 Lab File: VL037461.D
 Acq: 16 Aug 2021 14:18

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	0.0	0.0
43	0.0	0.0	0.0
57	0.0	0.0	0.0





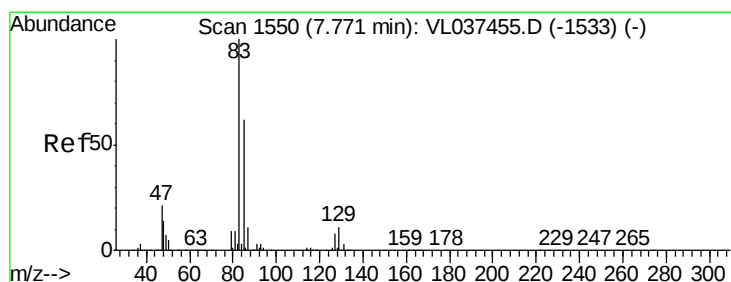
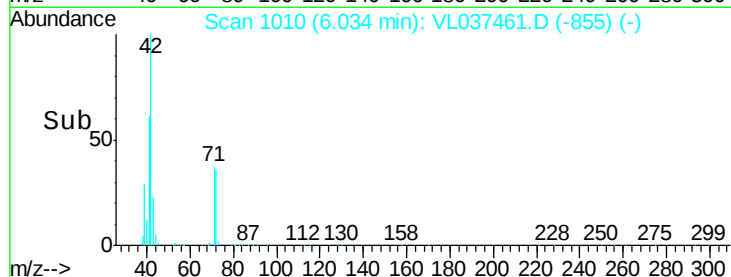
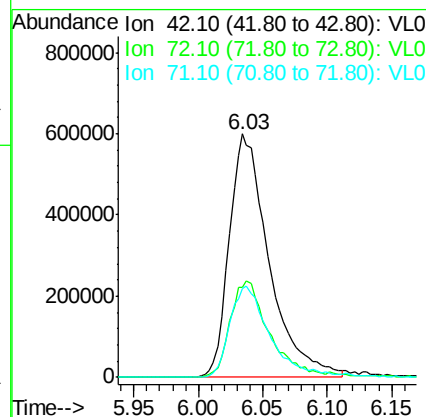
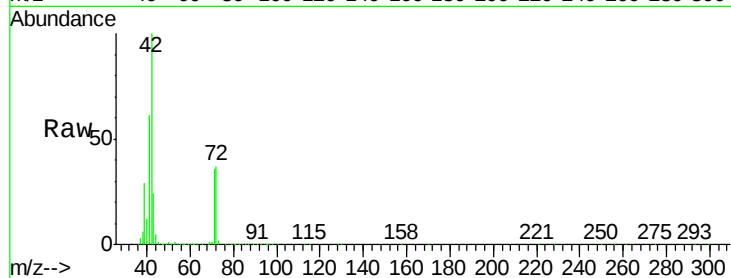
#41
Tetrahydrofuran
Concen: 14.797 ppbv
RT: 6.03 min Scan# 1010
Delta R.T. -0.00 min
Lab File: VL037461.D
Acq: 16 Aug 2021 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.5	32.2	48.4
71	38.9	30.5	45.7

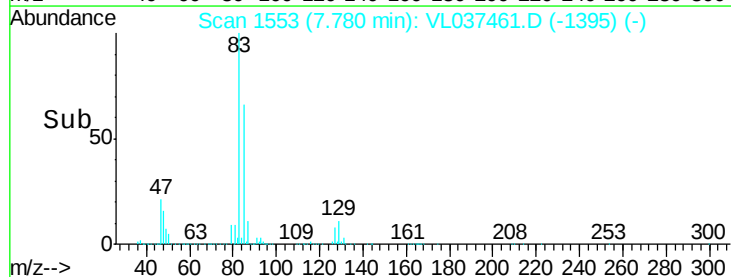
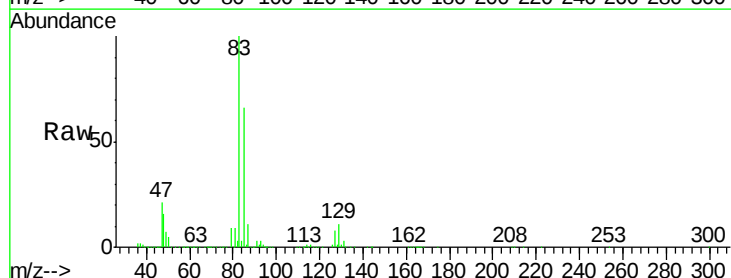
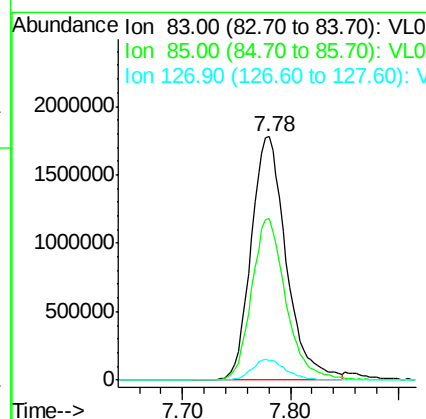
Manual Integrations
APPROVED

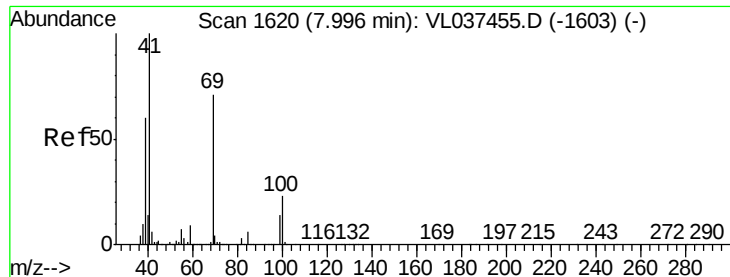
MMDadoda
8/19/2021 5:59:17 PM



#42
Bromodichloromethane
Concen: 14.560 ppbv
RT: 7.78 min Scan# 1553
Delta R.T. 0.01 min
Lab File: VL037461.D
Acq: 16 Aug 2021 14:18

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.4	49.5	74.3
127	8.0	6.3	9.5





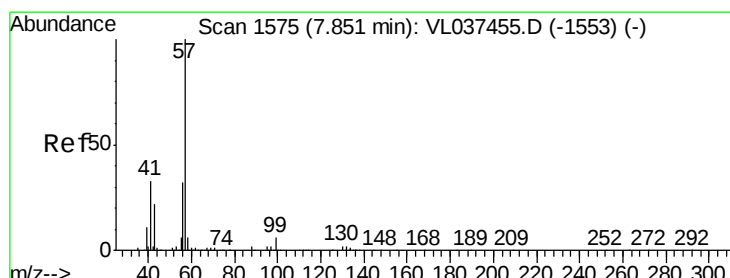
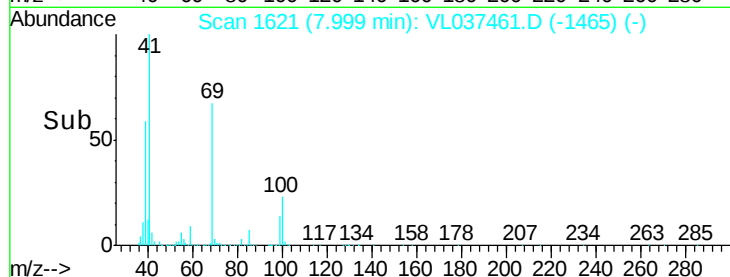
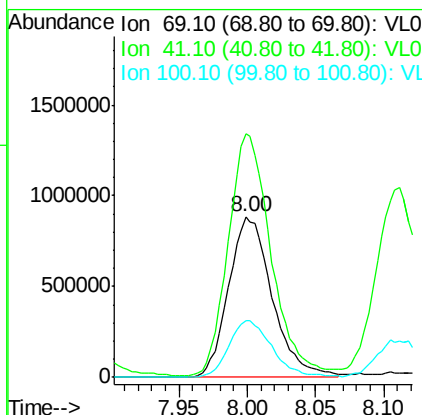
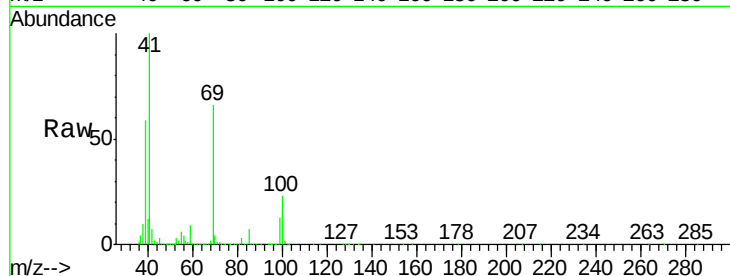
#43
Methvl Methacrilate
Concen: 15.007 ppbv
RT: 8.00 min Scan# 1621
Delta R.T. 0.00 min
Lab File: VL037461.D
Acq: 16 Aug 2021 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 69 Resp: 1958838
Ion Ratio Lower Upper
69 100
41 150.2 118.6 178.0
100 35.2 27.4 41.0

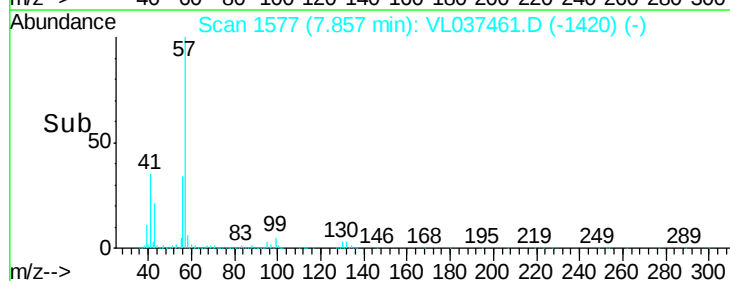
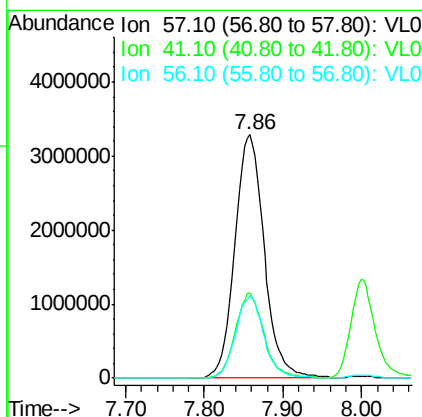
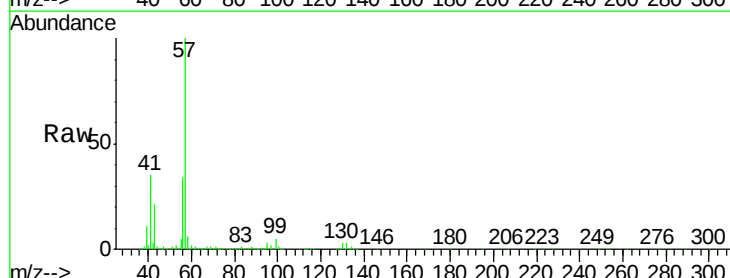
Manual Integrations
APPROVED

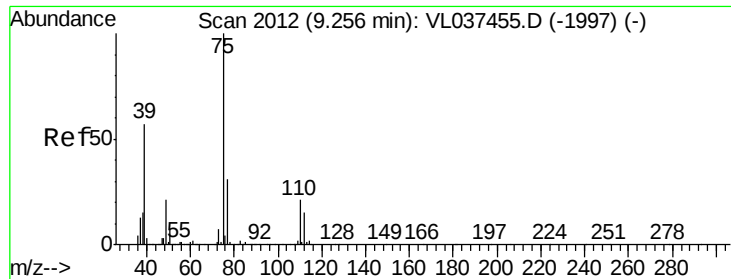
MMDadoda
8/19/2021 5:59:17 PM



#44
2,2,4-Trimethylpentane
Concen: 13.326 ppbv
RT: 7.86 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VL037461.D
Acq: 16 Aug 2021 14:18

Tgt Ion: 57 Resp: 8580511
Ion Ratio Lower Upper
57 100
41 33.8 26.2 39.4
56 32.4 25.4 38.2





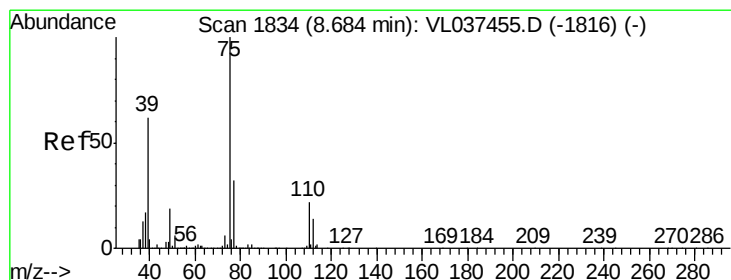
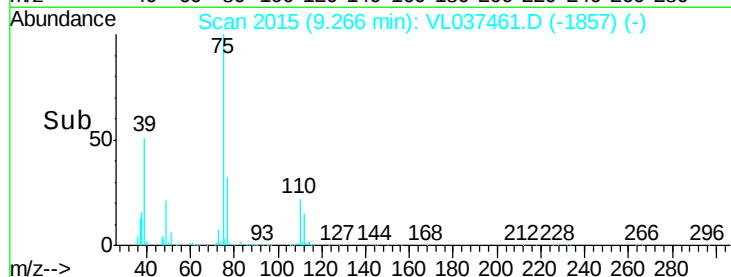
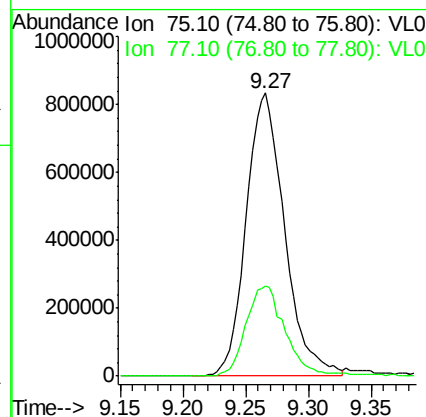
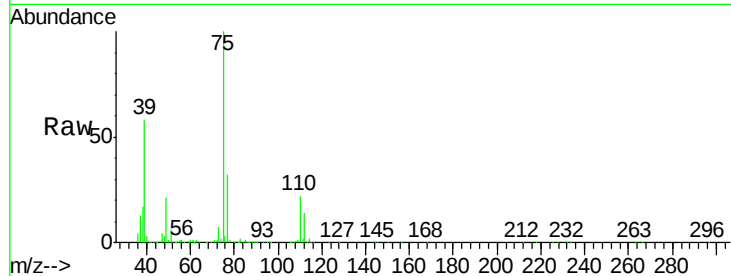
#45
t-1,3-Dichloropropene
Concen: 18.241 ppbv
RT: 9.27 min Scan# 2015
Delta R.T. 0.01 min
Lab File: VL037461.D
Acq: 16 Aug 2021 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 75 Resp: 1769301
Ion Ratio Lower Upper
75 100
77 32.0 24.5 36.7

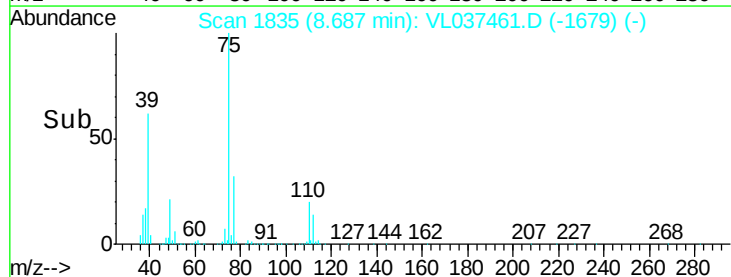
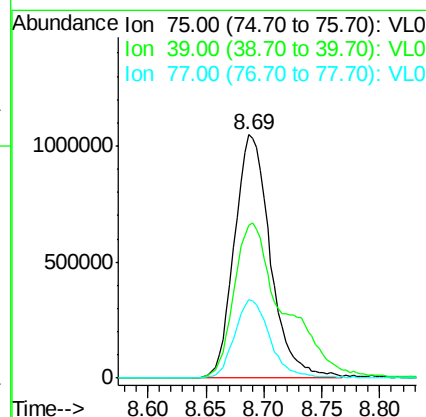
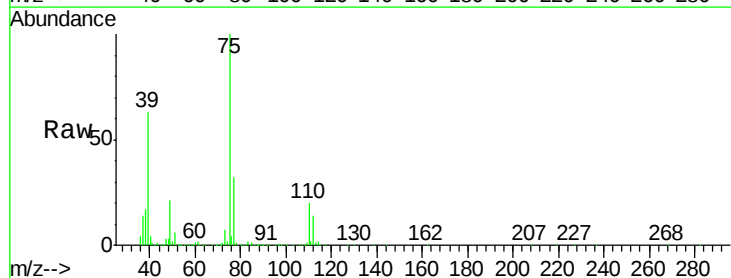
Manual Integrations
APPROVED

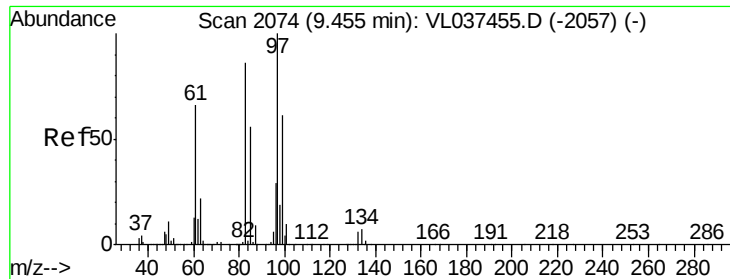
MMDadoda
8/19/2021 5:59:17 PM



#46
cis-1,3-Dichloropropene
Concen: 16.649 ppbv
RT: 8.69 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VL037461.D
Acq: 16 Aug 2021 14:18

Tgt Ion: 75 Resp: 2254394
Ion Ratio Lower Upper
75 100
39 62.4 49.7 74.5
77 32.1 25.4 38.0





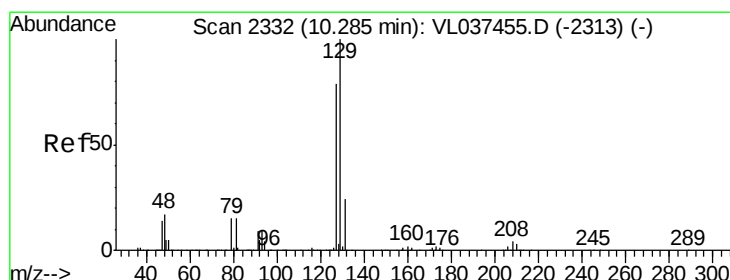
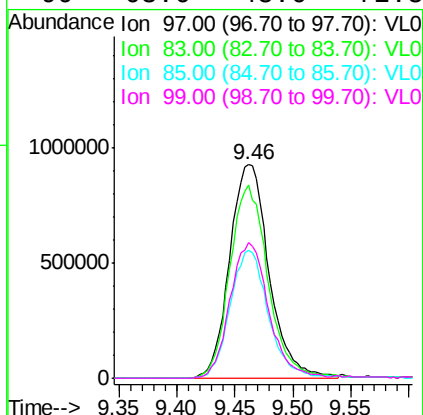
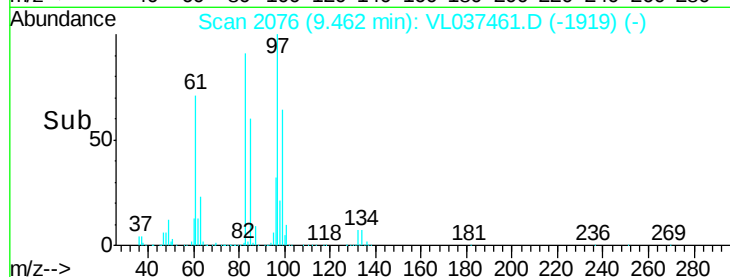
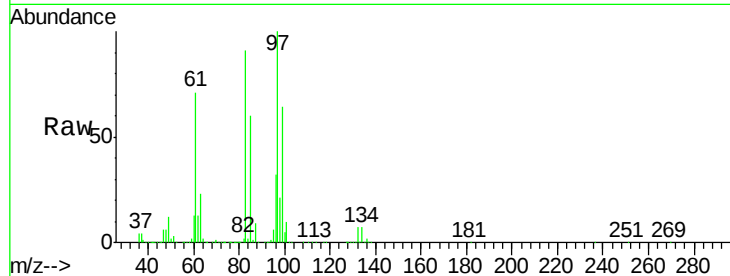
#47
 1,1,2-Trichloroethane
 Concen: 13.812 ppbv
 RT: 9.46 min Scan# 2076
 Delta R.T. 0.01 min
 Lab File: VL037461.D
 Acq: 16 Aug 2021 14:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	90.7	68.7	103.1	
85	59.8	44.7	67.1	
99	63.6	48.6	72.8	

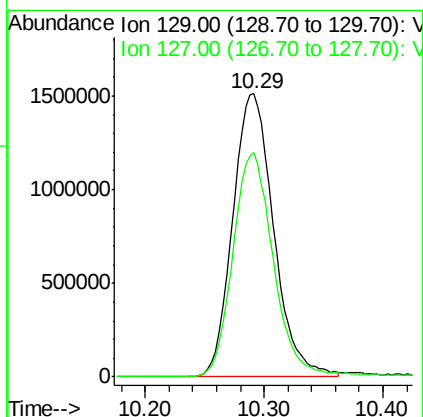
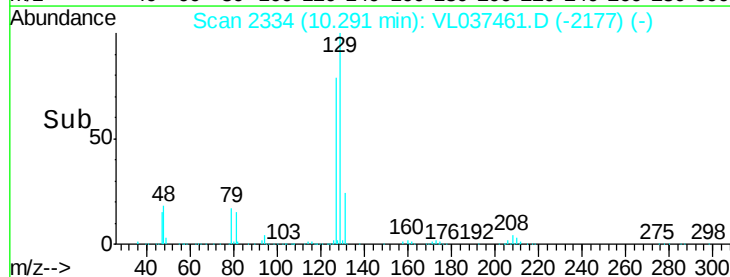
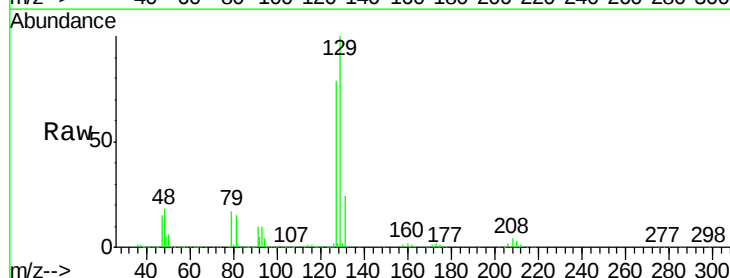
Manual Integrations
 APPROVED

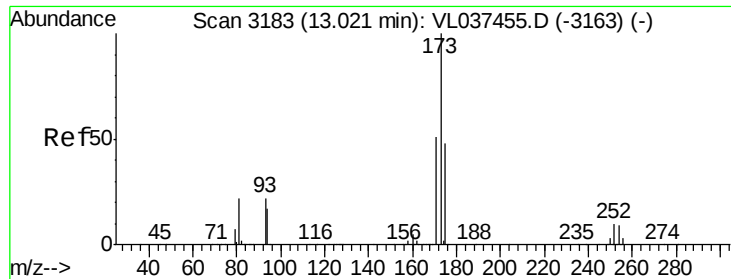
MMDadoda
 8/19/2021 5:59:17 PM



#48
 Dibromochloromethane
 Concen: 15.714 ppbv
 RT: 10.29 min Scan# 2334
 Delta R.T. 0.01 min
 Lab File: VL037461.D
 Acq: 16 Aug 2021 14:18

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	79.2	40.0	120.0	





#49

Bromoform

Concen: 17.138 ppbv

RT: 13.03 min Scan# 3185

Delta R.T. 0.01 min

Lab File: VL037461.D

Acq: 16 Aug 2021 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:173 Resp: 2971441

Ion Ratio Lower Upper

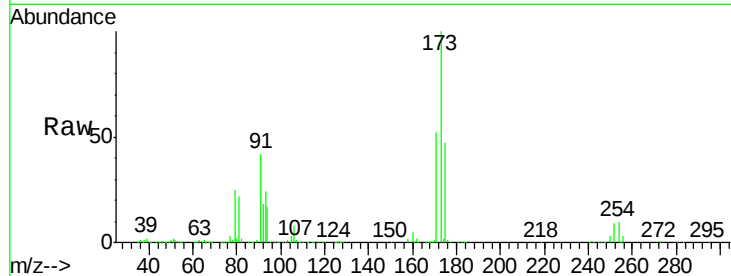
173 100

175 51.9 41.9 62.9

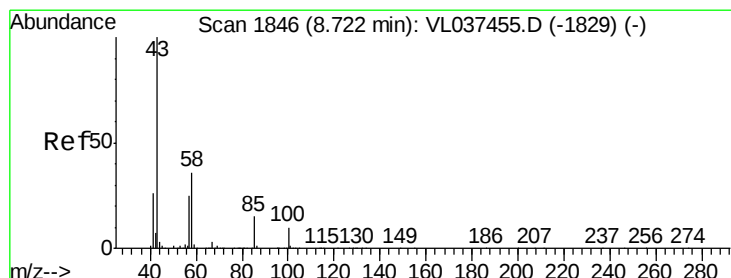
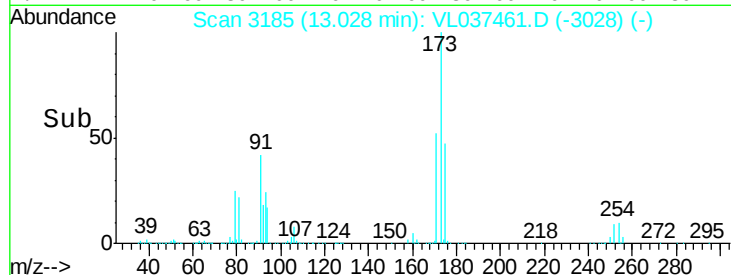
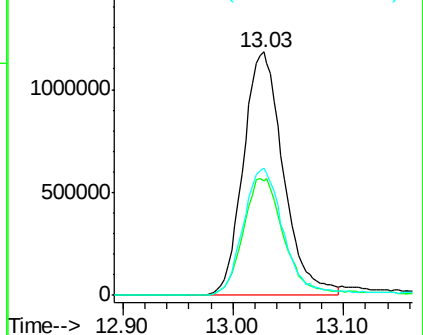
171 55.2 44.2 66.4

Manual Integrations
APPROVED

MMDadoda
8/19/2021 5:59:17 PM



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: 14.888 ppbv

RT: 8.73 min Scan# 1847

Delta R.T. 0.00 min

Lab File: VL037461.D

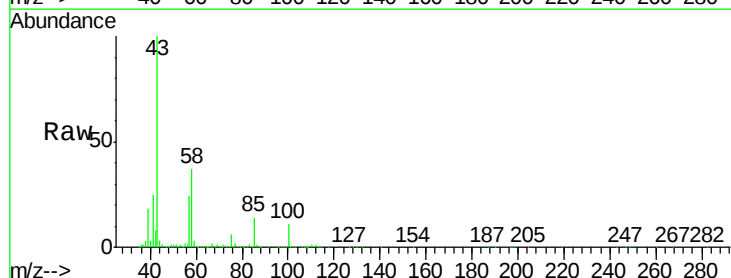
Acq: 16 Aug 2021 14:18

Tgt Ion: 43 Resp: 3531624

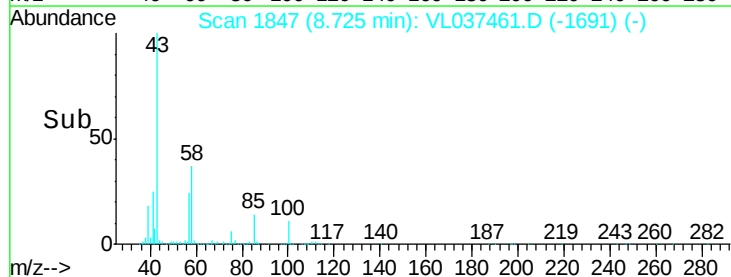
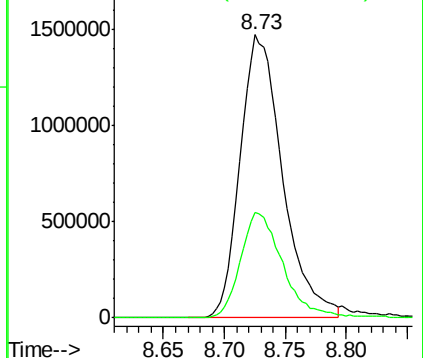
Ion Ratio Lower Upper

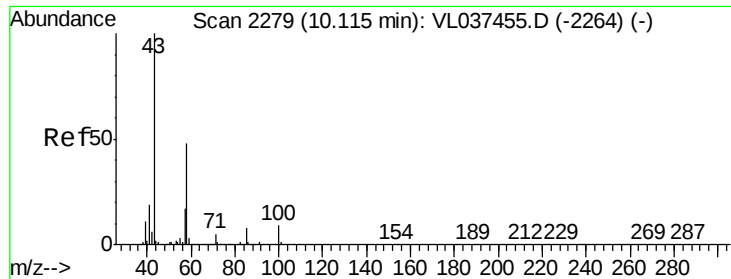
43 100

58 37.6 29.9 44.9



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





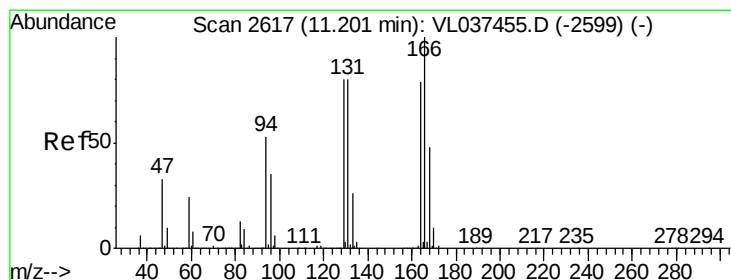
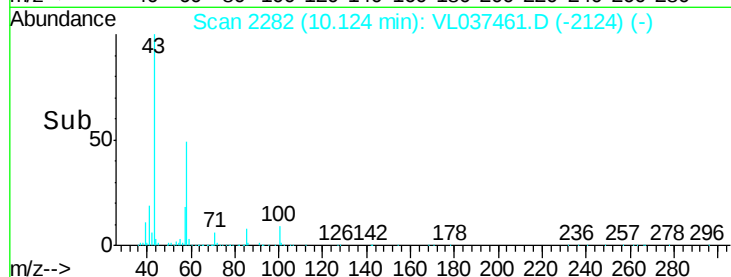
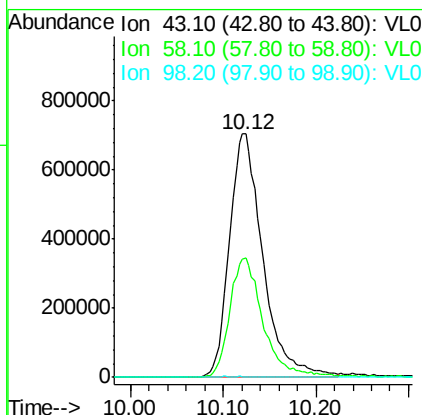
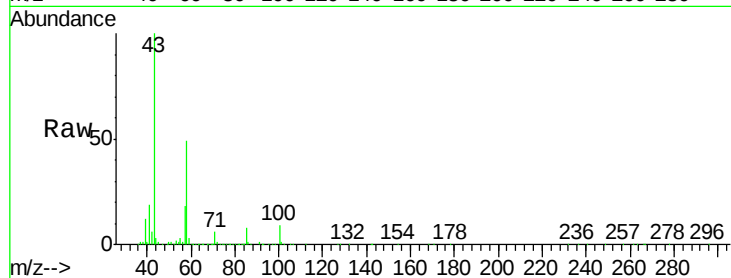
#51
2-Hexanone
Concen: 15.770 ppbv
RT: 10.12 min Scan# 2282
Delta R.T. 0.01 min
Lab File: VL037461.D
Acq: 16 Aug 2021 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 43 Resp: 1760044
Ion Ratio Lower Upper
43 100
58 49.4 41.0 61.6
98 0.3 0.3 0.5#

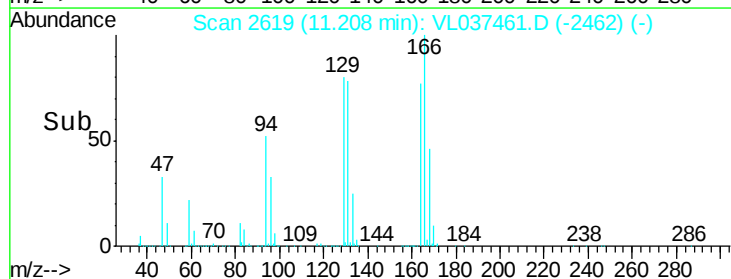
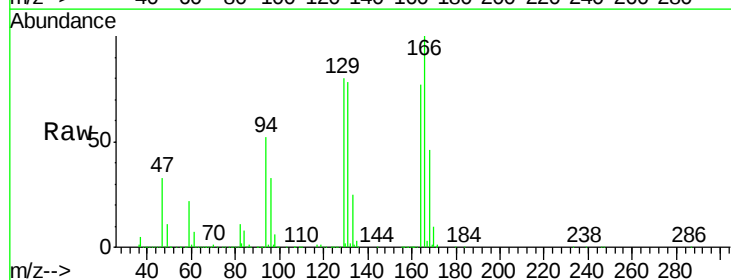
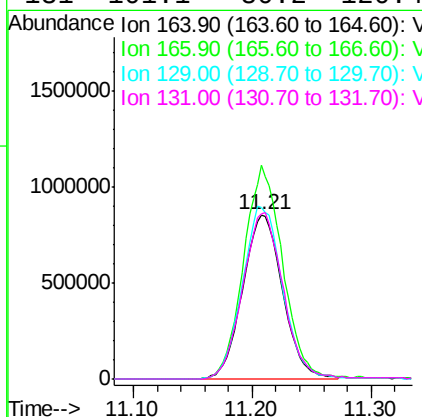
Manual Integrations
APPROVED

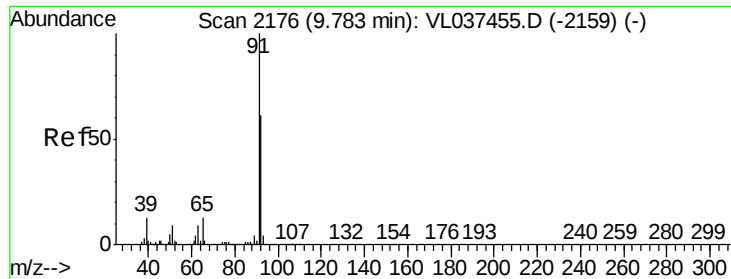
MMDadoda
8/19/2021 5:59:17 PM



#52
Tetrachloroethene
Concen: 12.184 ppbv
RT: 11.21 min Scan# 2619
Delta R.T. 0.01 min
Lab File: VL037461.D
Acq: 16 Aug 2021 14:18

Tgt Ion:164 Resp: 1976727
Ion Ratio Lower Upper
164 100
166 130.3 100.7 151.1
129 104.5 80.9 121.3
131 101.1 80.2 120.4





#53

Toluene

Concen: 14.162 ppbv

RT: 9.79 min Scan# 2178

Delta R.T. 0.01 min

Lab File: VL037461.D

Acq: 16 Aug 2021 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 6226818

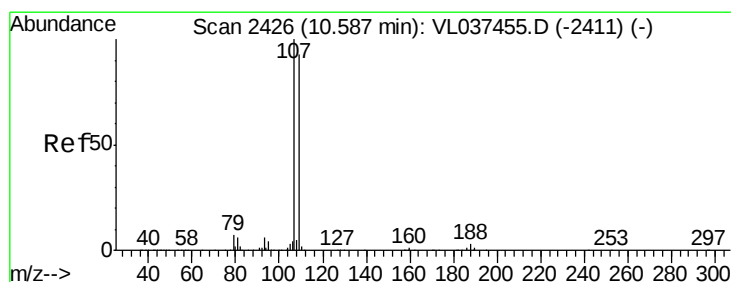
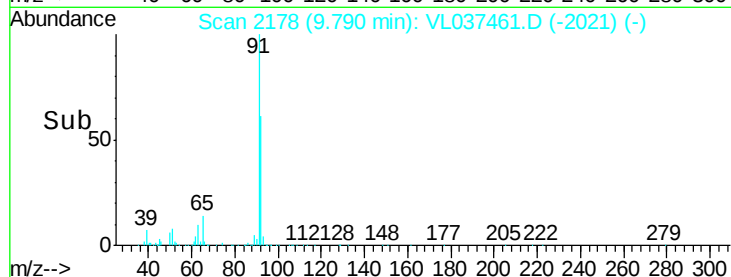
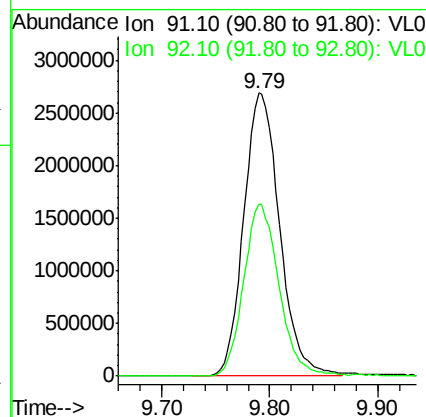
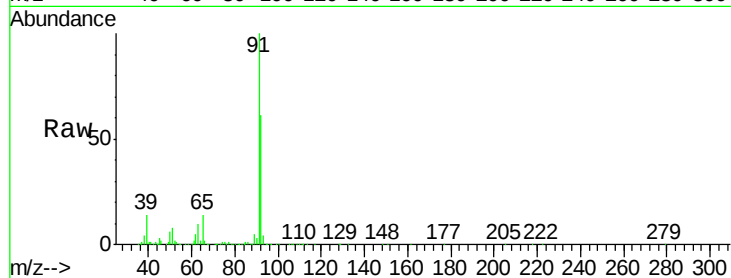
Ion Ratio Lower Upper

91 100

92 60.8 48.8 73.2

Manual Integrations
APPROVED

MMDadoda
8/19/2021 5:59:17 PM



#54

1,2-Dibromoethane

Concen: 15.083 ppbv

RT: 10.60 min Scan# 2429

Delta R.T. 0.01 min

Lab File: VL037461.D

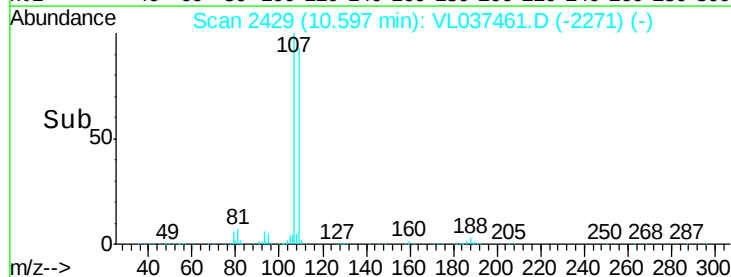
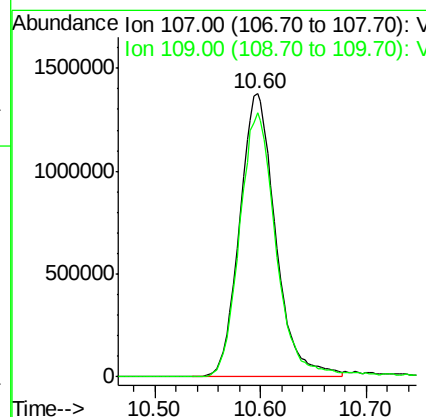
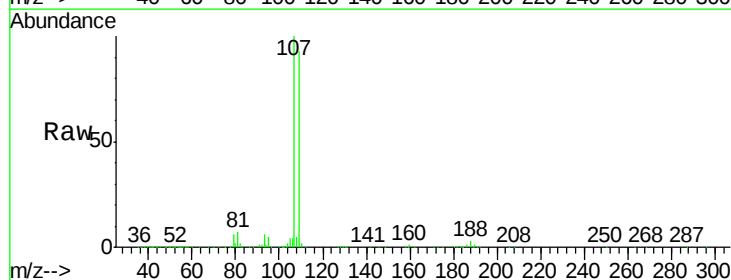
Acq: 16 Aug 2021 14:18

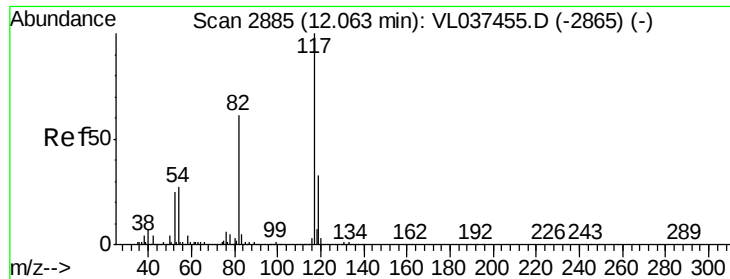
Tgt Ion: 107 Resp: 3255453

Ion Ratio Lower Upper

107 100

109 93.3 74.2 111.4





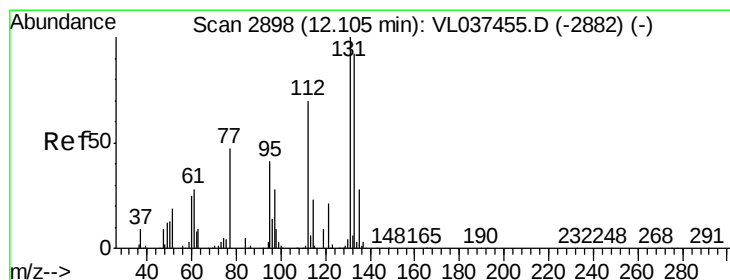
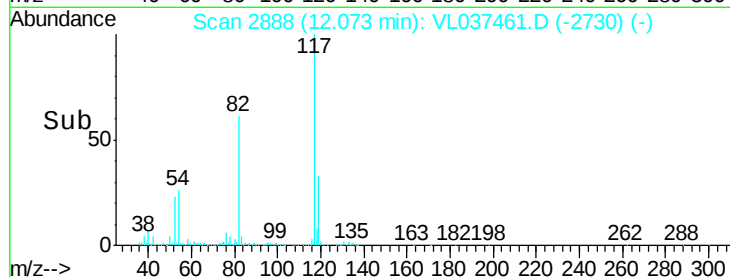
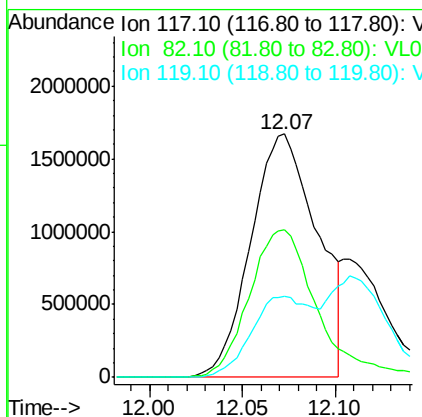
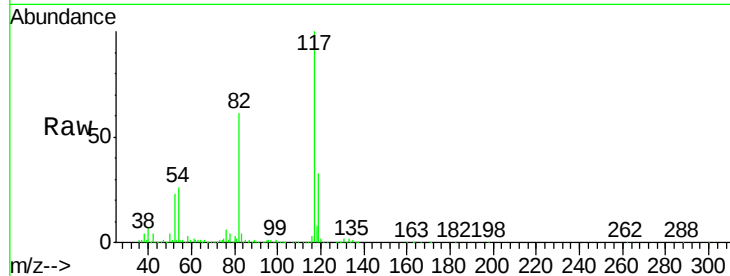
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2888
Delta R.T. 0.01 min
Lab File: VL037461.D
Acq: 16 Aug 2021 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:117 Resp: 4145145
Ion Ratio Lower Upper
117 100
82 63.9 52.9 79.3
119 0.0 24.8 37.2#

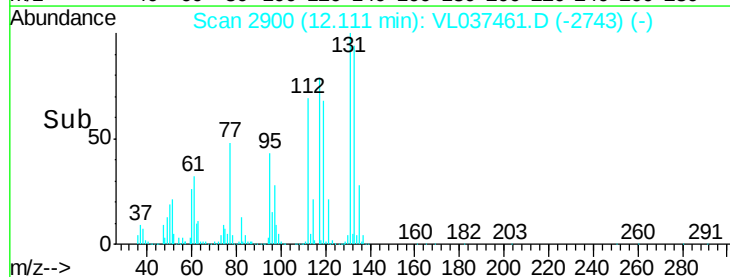
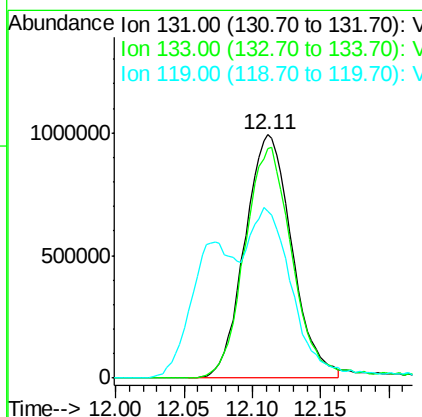
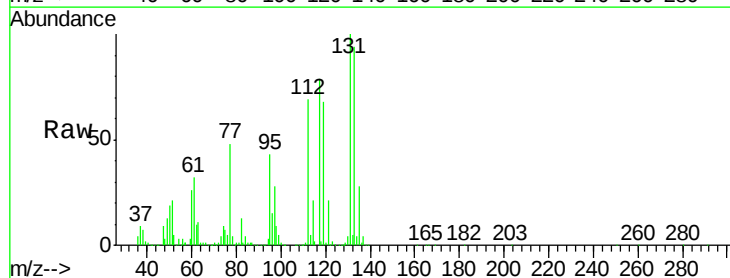
Manual Integrations
APPROVED

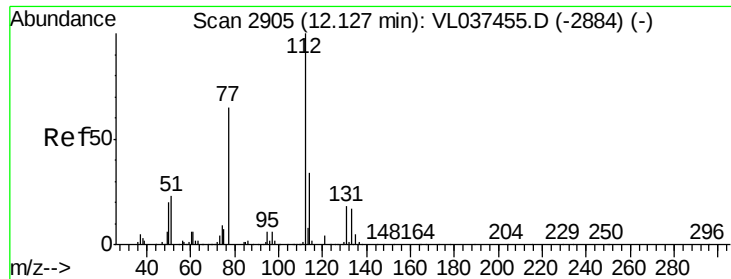
MMDadoda
8/19/2021 5:59:17 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 14.400 ppbv
RT: 12.11 min Scan# 2900
Delta R.T. 0.01 min
Lab File: VL037461.D
Acq: 16 Aug 2021 14:18

Tgt Ion:131 Resp: 2376126
Ion Ratio Lower Upper
131 100
133 99.9 78.7 118.1
119 77.1 56.6 85.0





#57

Chlorobenzene

Concen: 13.414 ppbv

RT: 12.13 min Scan# 2906

Delta R.T. 0.00 min

Lab File: VL037461.D

Acq: 16 Aug 2021 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:112 Resp: 4506495

Ion Ratio Lower Upper

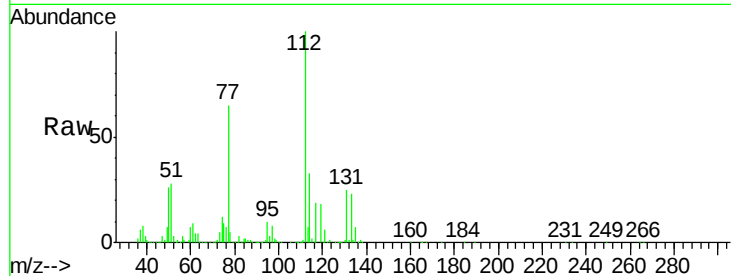
112 100

77 64.6 51.6 77.4

114 33.0 30.7 37.5

Manual Integrations
APPROVED

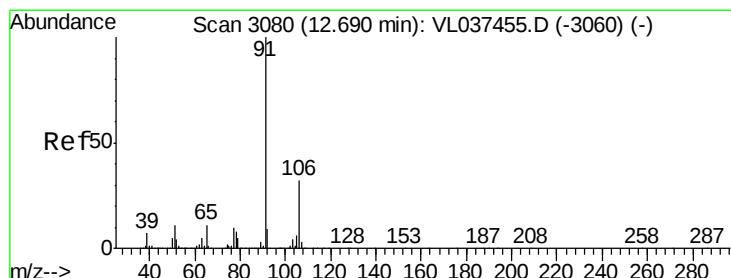
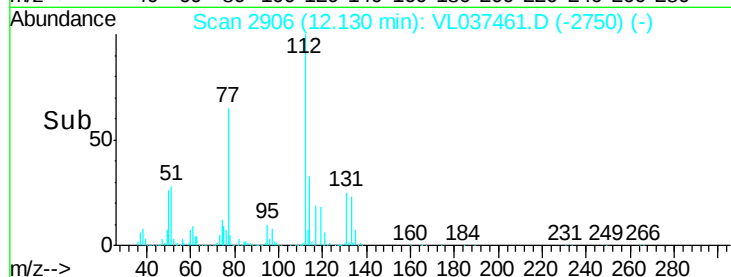
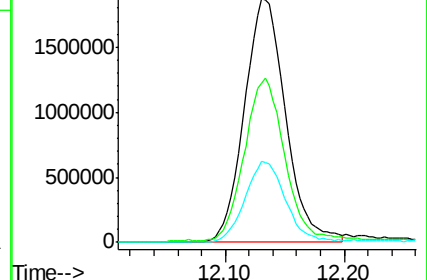
MMDadoda
8/19/2021 5:59:17 PM



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: 14.224 ppbv

RT: 12.70 min Scan# 3082

Delta R.T. 0.01 min

Lab File: VL037461.D

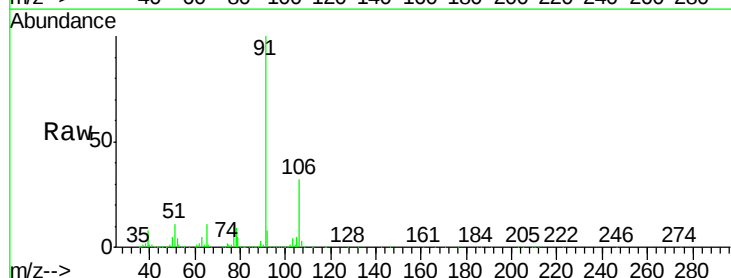
Acq: 16 Aug 2021 14:18

Tgt Ion: 91 Resp: 7998259

Ion Ratio Lower Upper

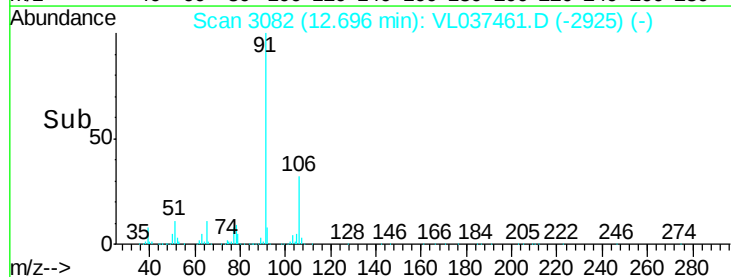
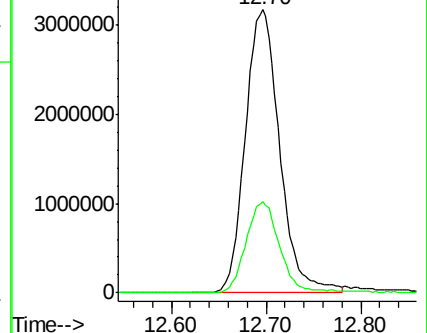
91 100

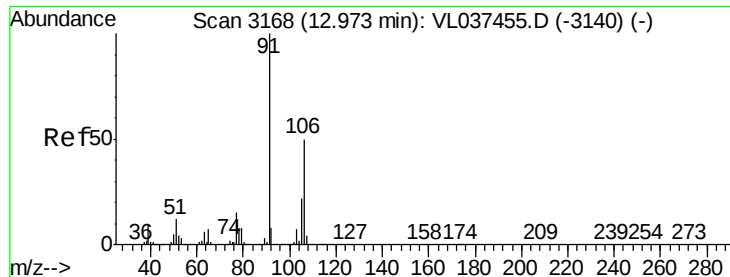
106 32.5 25.7 38.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 26.666 ppbv m

RT: 12.98 min Scan# 3171

Delta R.T. 0.01 min

Lab File: VL037461.D

Acq: 16 Aug 2021 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp:13171840

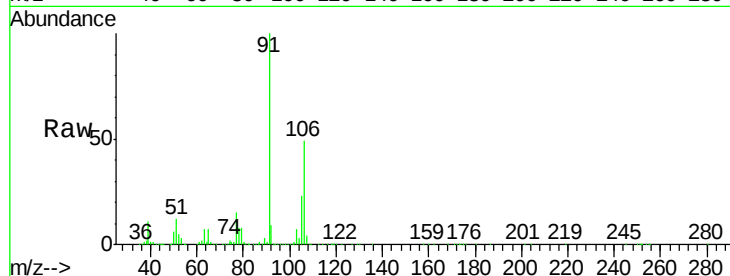
Ion Ratio Lower Upper

91 100

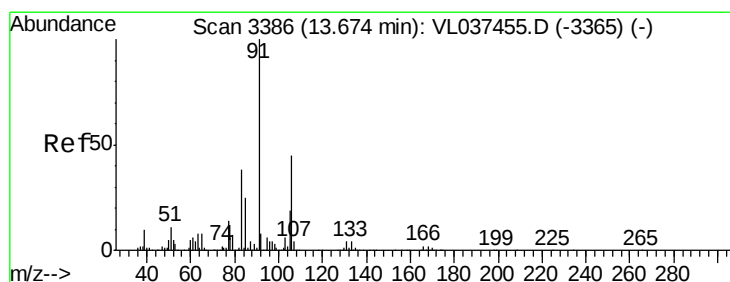
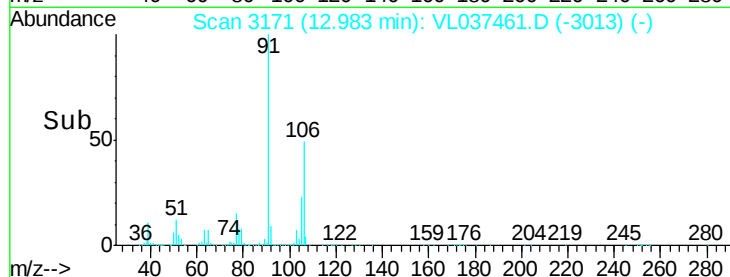
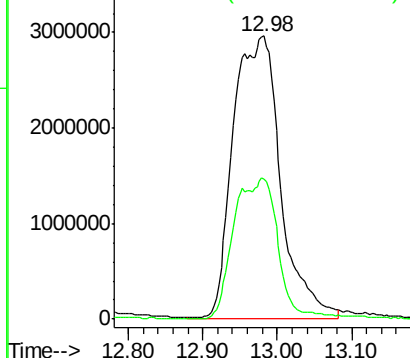
106 47.1 36.9 55.3

Manual Integrations
APPROVED

MMDadoda
8/19/2021 5:59:17 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 13.464 ppbv

RT: 13.68 min Scan# 3388

Delta R.T. 0.01 min

Lab File: VL037461.D

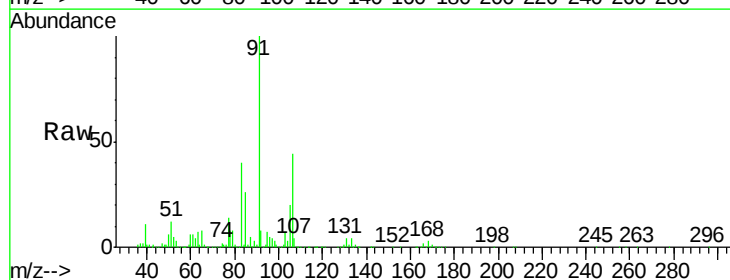
Acq: 16 Aug 2021 14:18

Tgt Ion: 91 Resp: 6178401

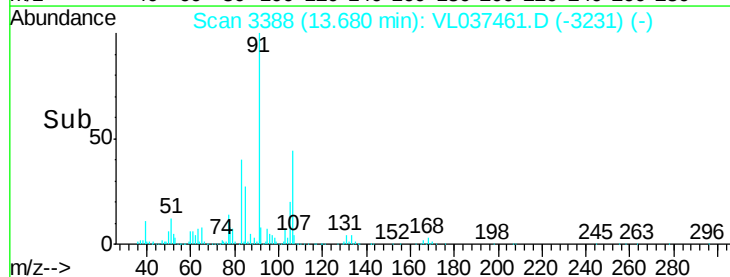
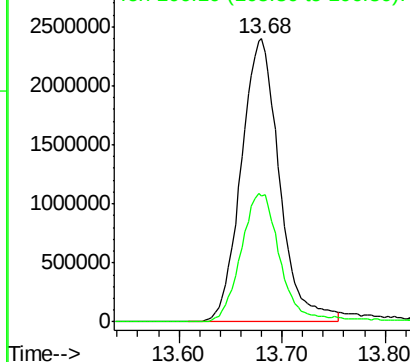
Ion Ratio Lower Upper

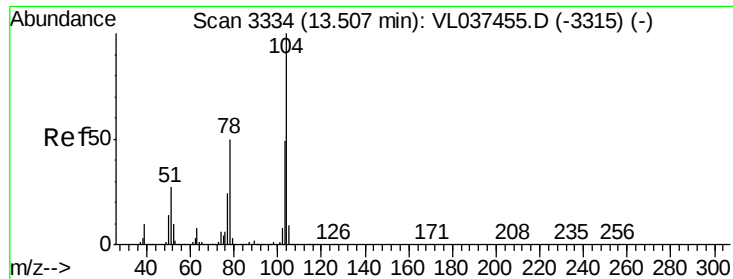
91 100

106 47.5 23.7 71.1



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





#61

Stvrene

Concen: 16.084 ppbv

RT: 13.51 min Scan# 3336

Delta R.T. 0.01 min

Lab File: VL037461.D

Acq: 16 Aug 2021 14:18

Instrument :

MSVOA_L

ClientSampleId :

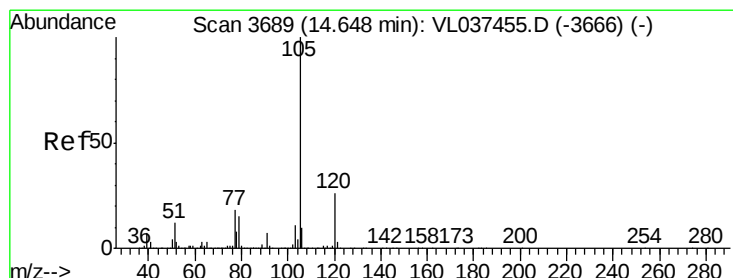
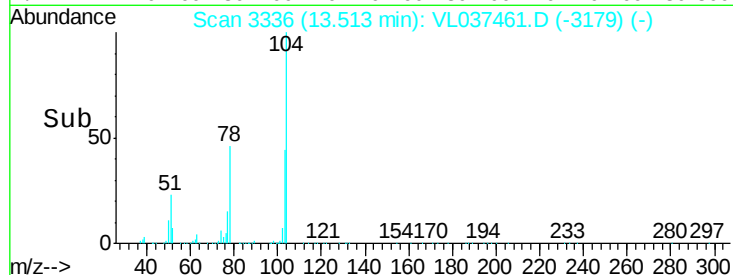
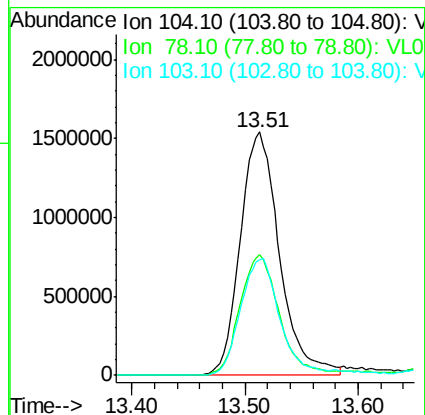
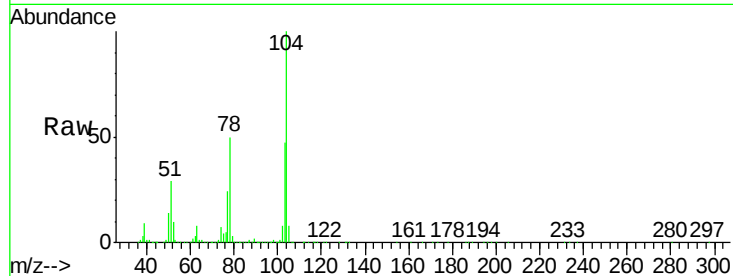
VSTDIC015

Tot Ion:104 Resp: 3728816

Ion	Ratio	Lower	Upper
104	100		
78	51.6	41.3	61.9
103	49.5	39.4	59.0

Manual Integrations
APPROVED

MMDadoda
8/19/2021 5:59:17 PM



#62

Isopropylbenzene

Concen: 13.240 ppbv

RT: 14.65 min Scan# 3691

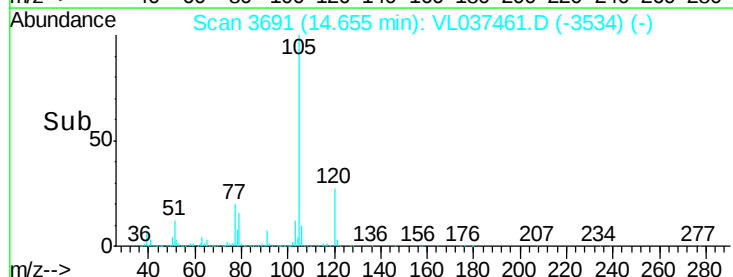
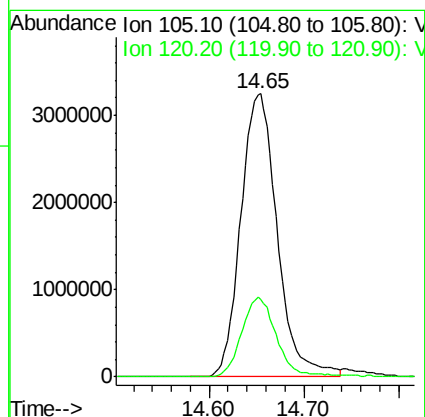
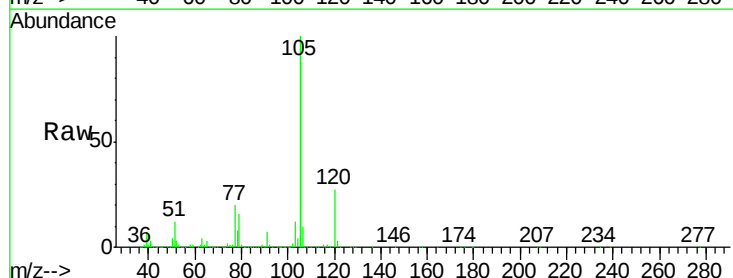
Delta R.T. 0.01 min

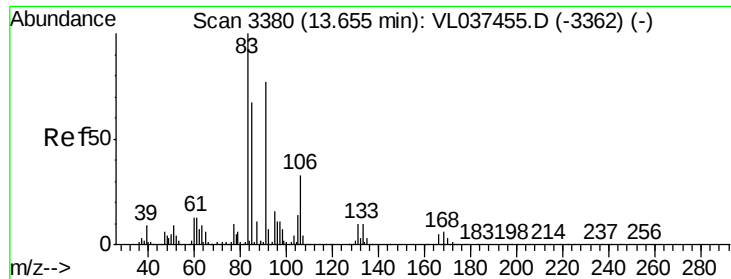
Lab File: VL037461.D

Acq: 16 Aug 2021 14:18

Tgt Ion:105 Resp: 8688461

Ion	Ratio	Lower	Upper
105	100		
120	27.3	21.5	32.3





#63

1,1,2,2-Tetrachloroethane

Concen: 13.063 ppbv

RT: 13.66 min Scan# 3382

Delta R.T. 0.01 min

Lab File: VL037461.D

Acq: 16 Aug 2021 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 83 Resp: 4520504

Ion Ratio Lower Upper

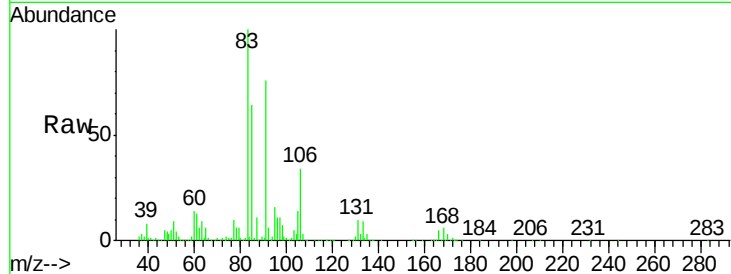
83 100

131 10.1 5.0 15.0

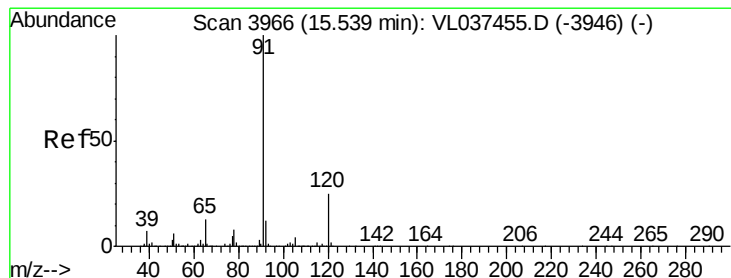
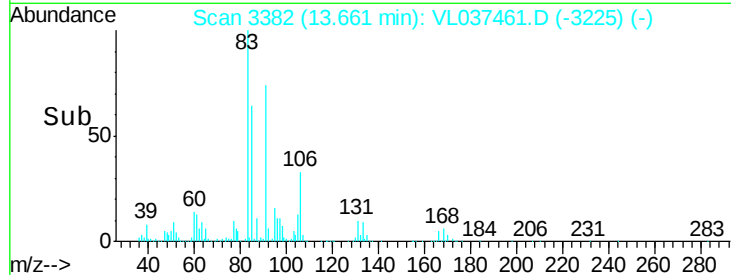
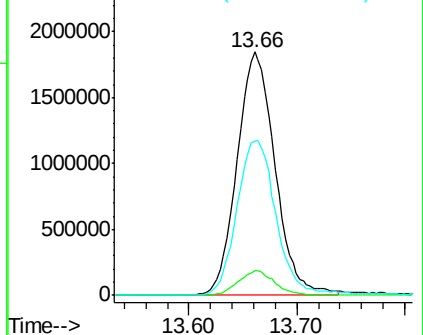
85 66.7 33.8 101.3

Manual Integrations
APPROVED

MMDadoda
8/19/2021 5:59:17 PM



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



#64

n-propylbenzene

Concen: 14.250 ppbv

RT: 15.55 min Scan# 3968

Delta R.T. 0.01 min

Lab File: VL037461.D

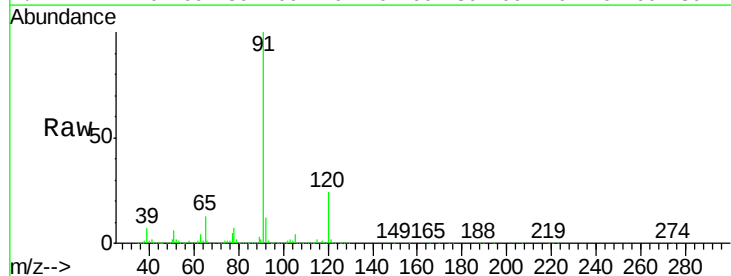
Acq: 16 Aug 2021 14:18

Tgt Ion: 120 Resp: 2353062

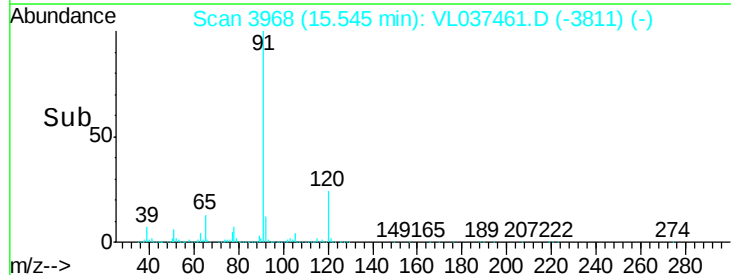
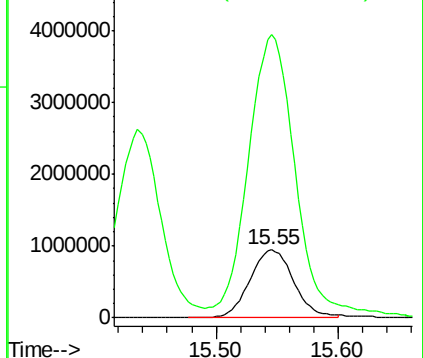
Ion Ratio Lower Upper

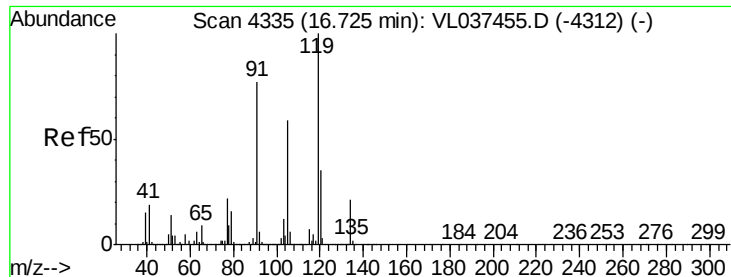
120 100

91 453.2 373.8 560.6



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





#65

tert-Butylbenzene

Concen: 12.890 ppbv

RT: 16.73 min Scan# 4336

Delta R.T. 0.00 min

Lab File: VL037461.D

Acq: 16 Aug 2021 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:119 Resp: 7628376

Ion Ratio Lower Upper

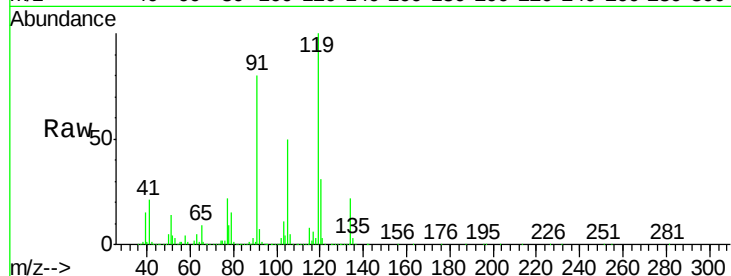
119 100

91 79.3 62.9 94.3

134 20.8 16.4 24.6

Manual Integrations
APPROVED

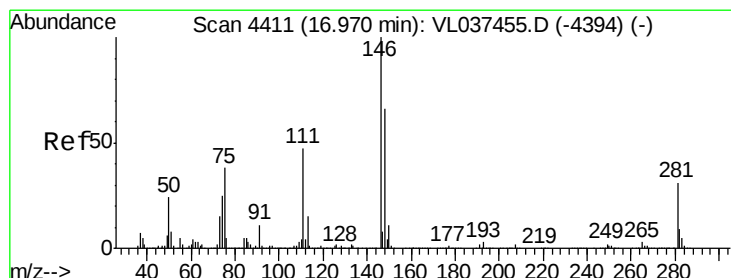
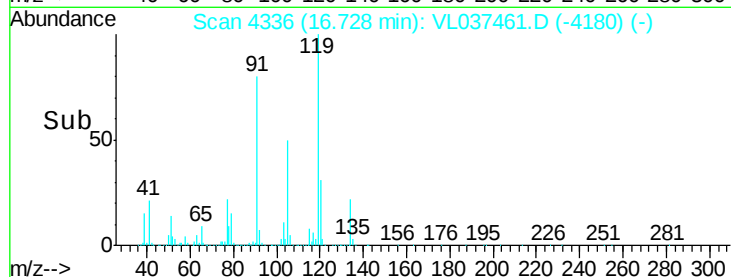
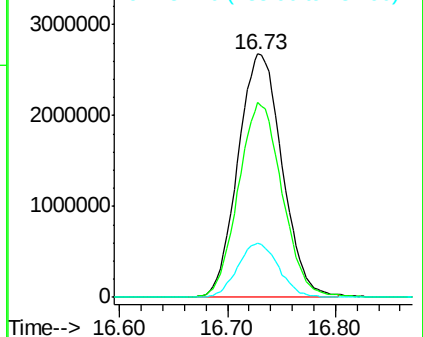
MMDadoda
8/19/2021 5:59:17 PM



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 18.894 ppbv

RT: 16.97 min Scan# 4411

Delta R.T. -0.00 min

Lab File: VL037461.D

Acq: 16 Aug 2021 14:18

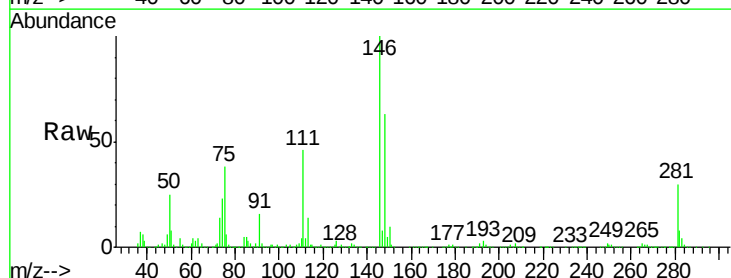
Tgt Ion: 91 Resp: 511616

Ion Ratio Lower Upper

91 100

126 19.6 15.9 23.9

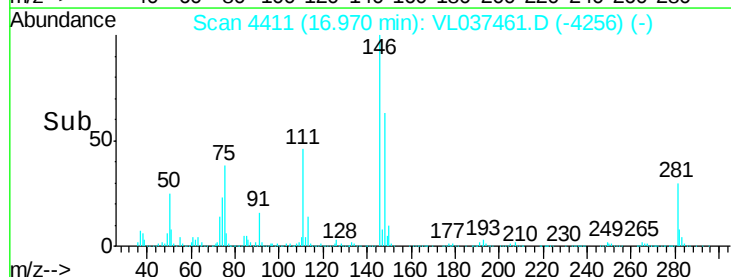
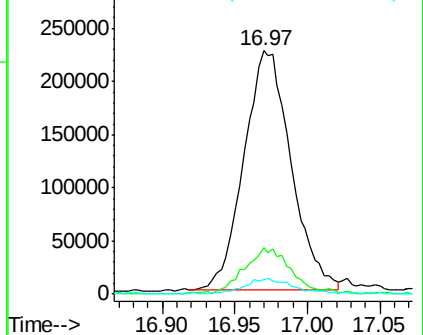
128 7.2 5.4 8.0

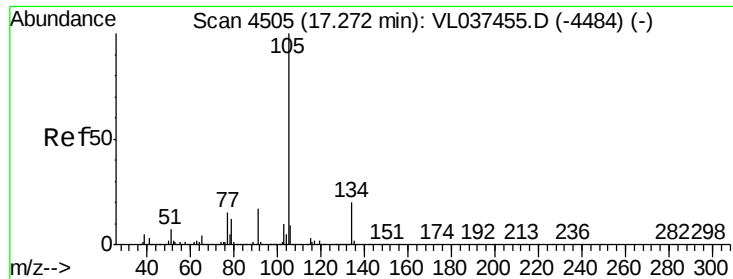


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 13.204 ppbv

RT: 17.28 min Scan# 4507

Delta R.T. 0.01 min

Lab File: VL037461.D

Acq: 16 Aug 2021 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp:10632673

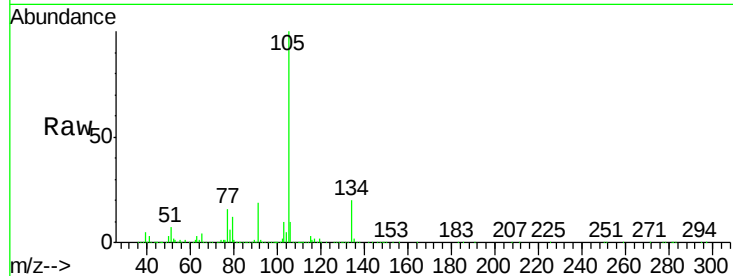
Ion Ratio Lower Upper

105 100

134 19.9 15.2 22.8

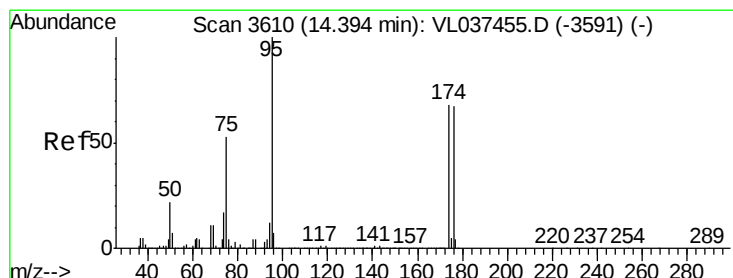
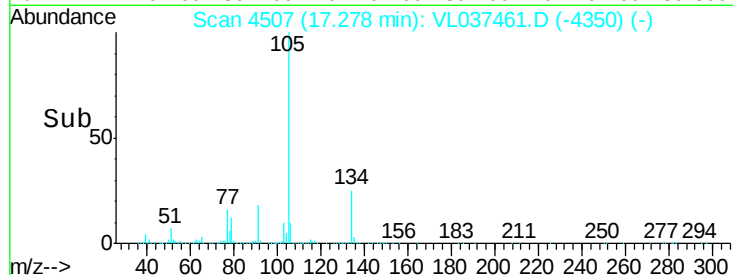
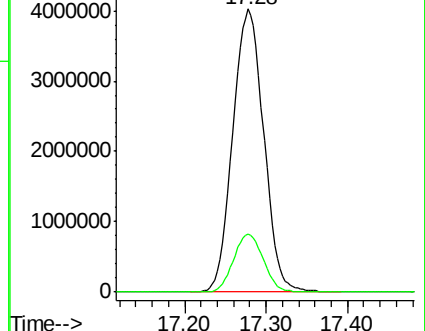
Manual Integrations
APPROVED

MMDadoda
8/19/2021 5:59:17 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.020 ppbv

RT: 14.40 min Scan# 3611

Delta R.T. 0.00 min

Lab File: VL037461.D

Acq: 16 Aug 2021 14:18

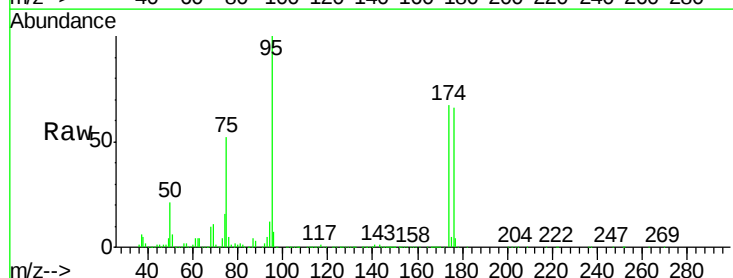
Tgt Ion: 95 Resp: 2979317

Ion Ratio Lower Upper

95 100

174 74.3 59.6 89.4

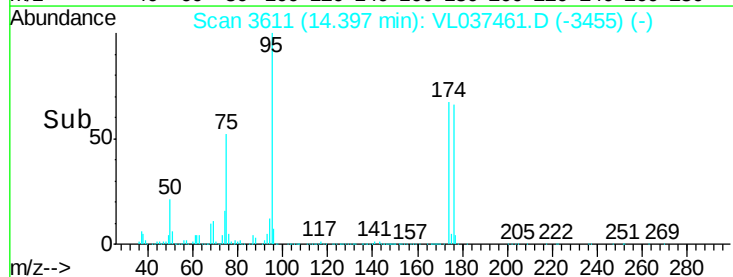
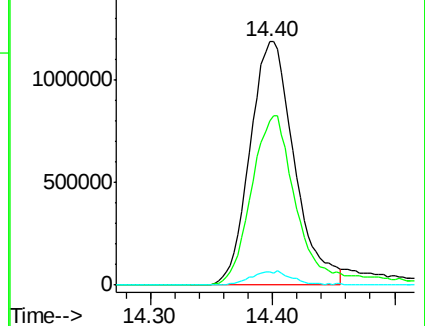
175 5.8 4.6 7.0

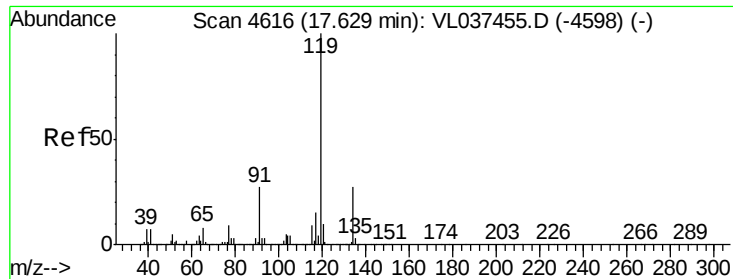


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





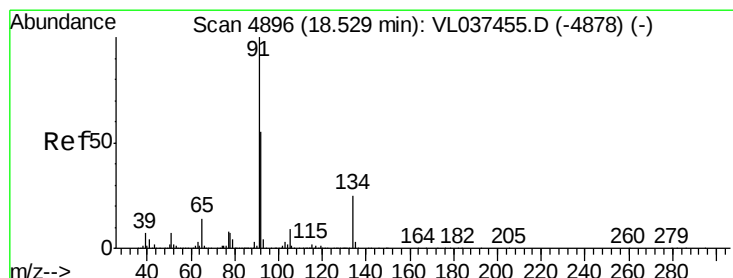
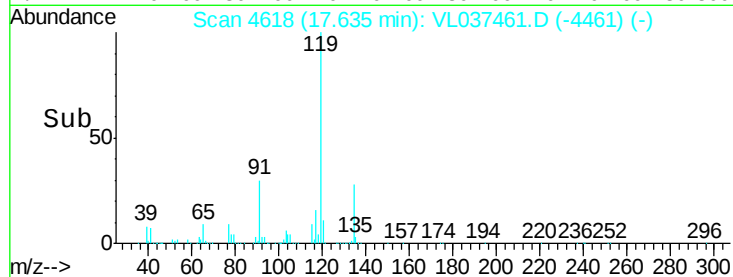
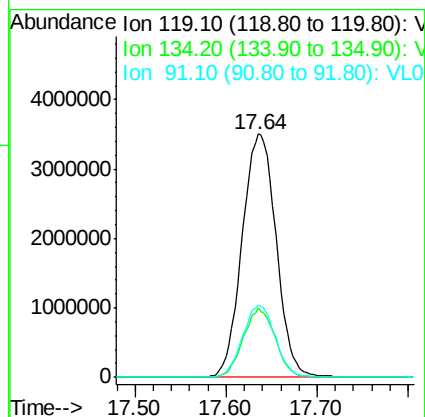
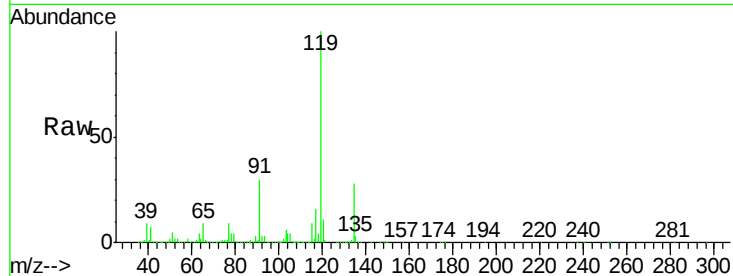
#69
 p-Isopropyltoluene
 Concen: 13.770 ppbv
 RT: 17.64 min Scan# 4618
 Delta R.T. 0.01 min
 Lab File: VL037461.D
 Acq: 16 Aug 2021 14:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.7	21.1	31.7
91	28.6	22.4	33.6

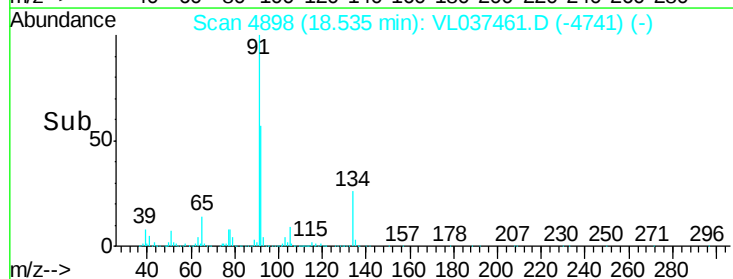
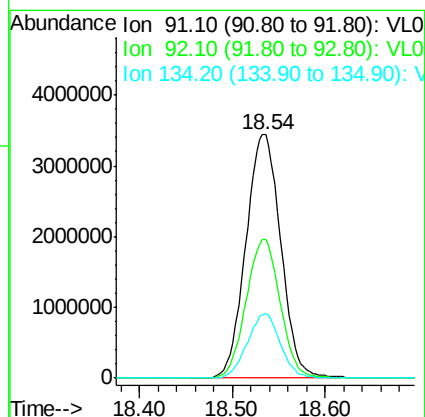
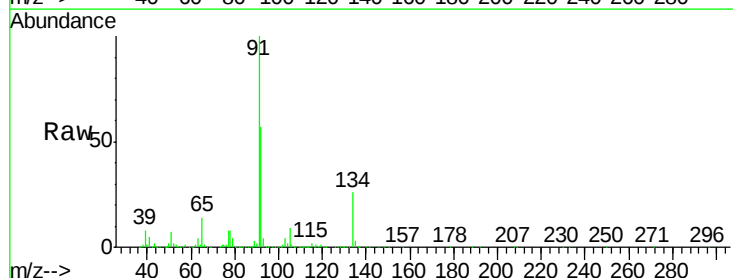
Manual Integrations
 APPROVED

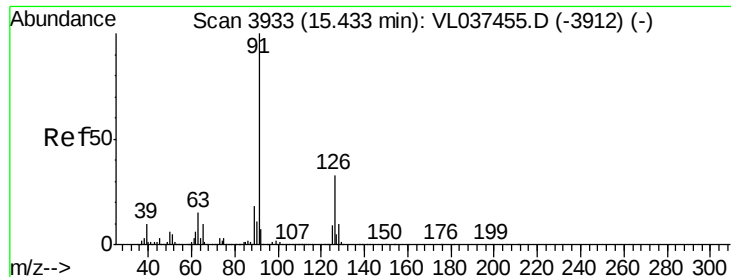
MMDadoda
 8/19/2021 5:59:17 PM



#70
 n-Butylbenzene
 Concen: 14.613 ppbv
 RT: 18.54 min Scan# 4898
 Delta R.T. 0.01 min
 Lab File: VL037461.D
 Acq: 16 Aug 2021 14:18

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.8	44.0	66.0
134	25.2	19.5	29.3





#71

2-Chlorotoluene

Concen: 14.028 ppbv

RT: 15.44 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VL037461.D

Acq: 16 Aug 2021 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 6511503

Ion Ratio Lower Upper

91 100

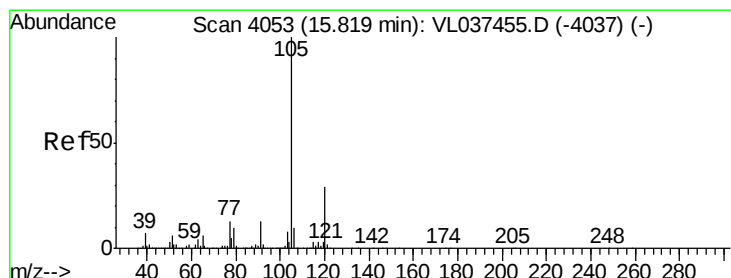
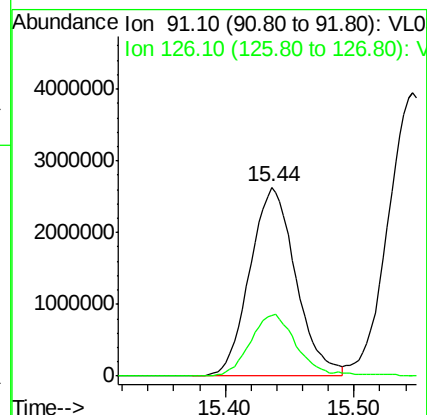
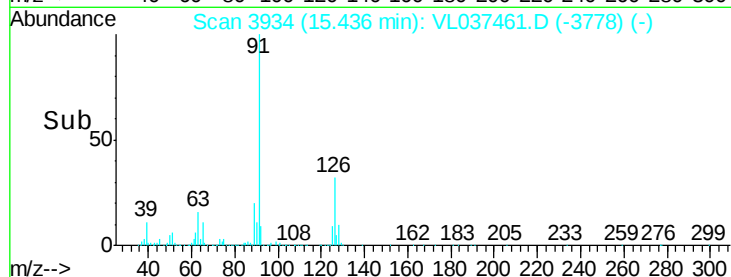
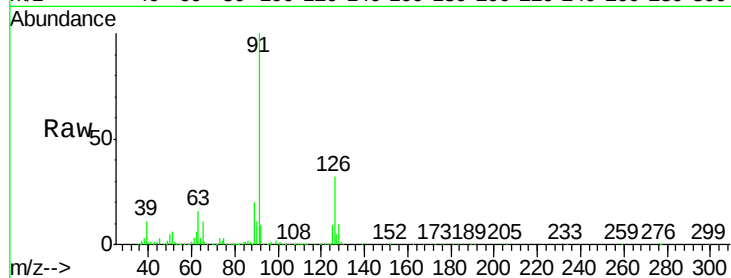
126 34.0 13.6 54.4

Manual Integrations

APPROVED

MMDadoda

8/19/2021 5:59:17 PM



#72

4-Ethyltoluene

Concen: 14.525 ppbv

RT: 15.82 min Scan# 4055

Delta R.T. 0.01 min

Lab File: VL037461.D

Acq: 16 Aug 2021 14:18

Tgt Ion: 105 Resp: 7736495

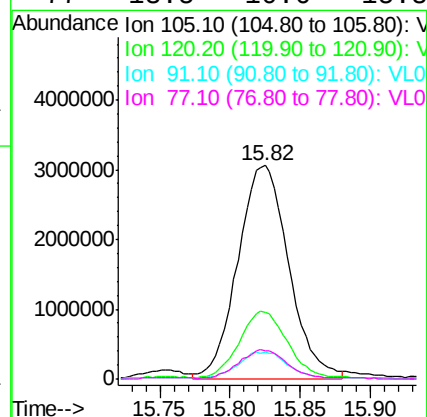
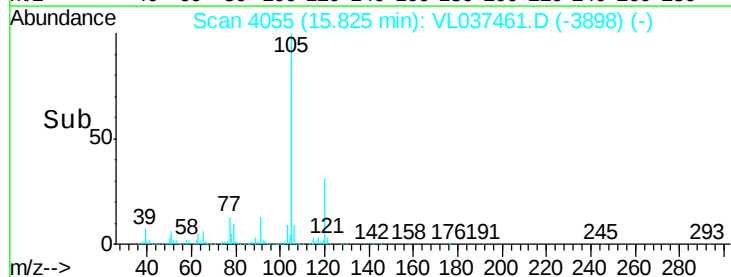
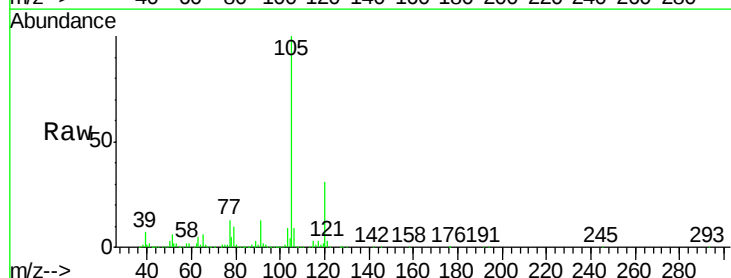
Ion Ratio Lower Upper

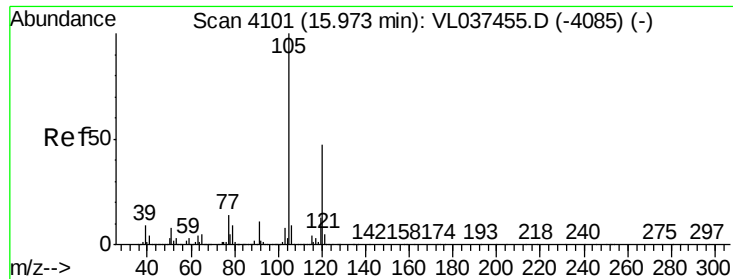
105 100

120 31.3 24.7 37.1

91 12.4 9.8 14.8

77 13.5 10.6 15.8





#73

1,3,5-Trimethylbenzene

Concen: 13.915 ppbv

RT: 15.98 min Scan# 4104

Delta R.T. 0.01 min

Lab File: VL037461.D

Acq: 16 Aug 2021 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 7007076

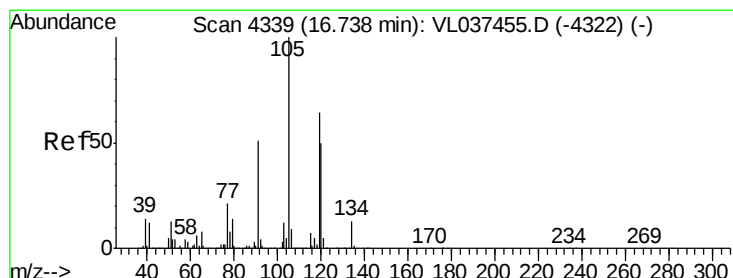
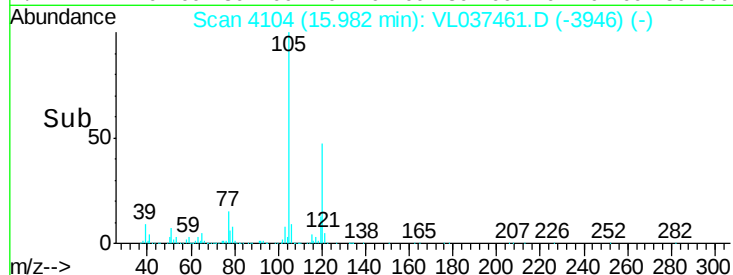
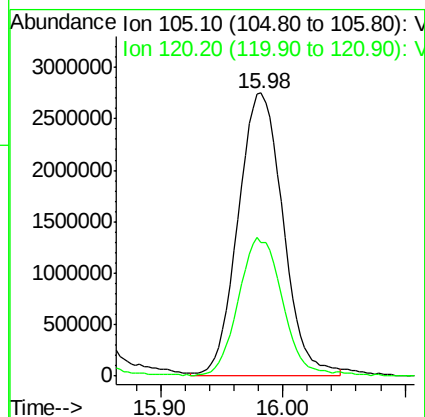
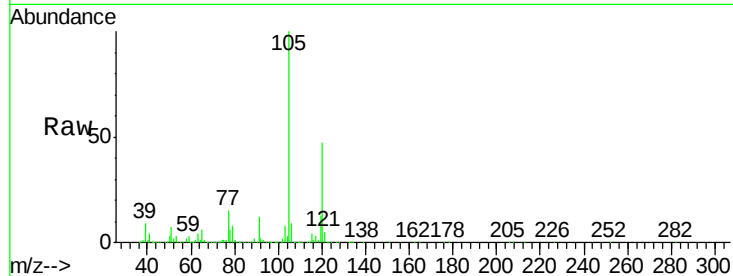
Ion Ratio Lower Upper

105 100

120 47.6 37.6 56.4

Manual Integrations
APPROVED

MMDadoda
8/19/2021 5:59:17 PM



#74

1,2,4-Trimethylbenzene

Concen: 13.616 ppbv

RT: 16.75 min Scan# 4342

Delta R.T. 0.01 min

Lab File: VL037461.D

Acq: 16 Aug 2021 14:18

Tgt Ion:105 Resp: 7019961

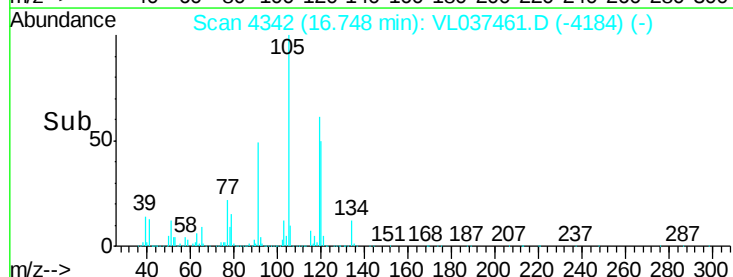
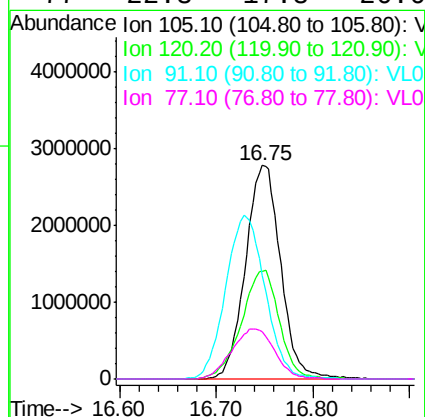
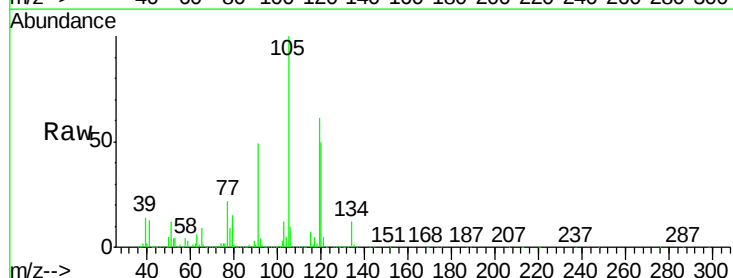
Ion Ratio Lower Upper

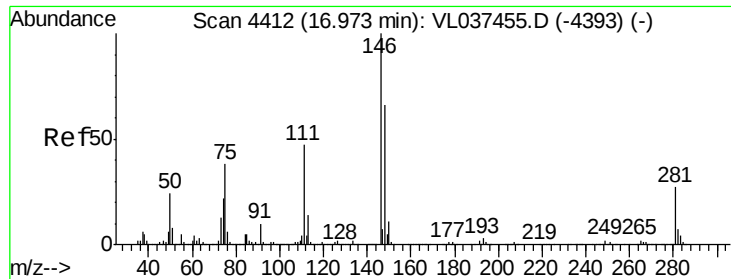
105 100

120 50.4 40.4 60.6

91 48.5 44.6 67.0

77 22.3 17.8 26.6





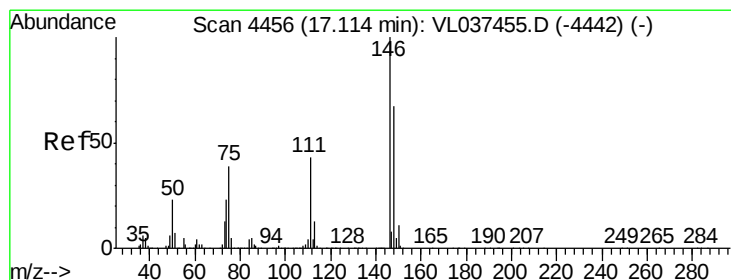
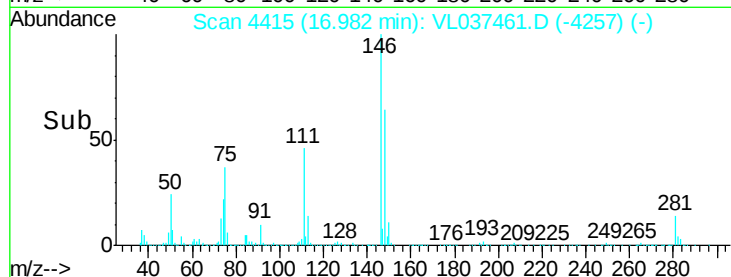
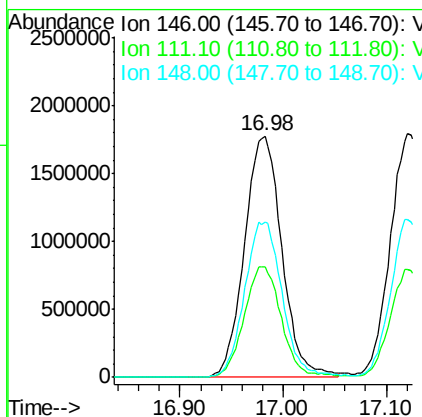
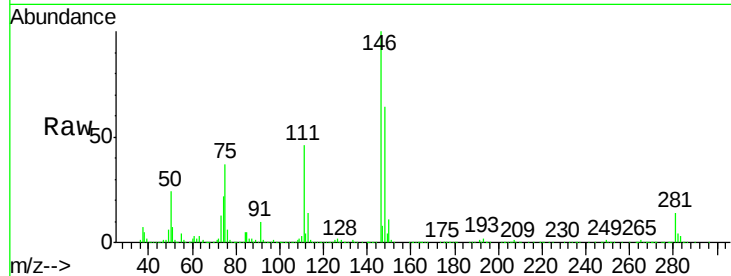
#75
 1,3-Dichlorobenzene
 Concen: 14.154 ppbv
 RT: 16.98 min Scan# 4415
 Delta R.T. 0.01 min
 Lab File: VL037461.D
 Acq: 16 Aug 2021 14:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:146 Resp: 4465792
 Ion Ratio Lower Upper
 146 100
 111 45.9 23.4 70.0
 148 64.9 33.1 99.5

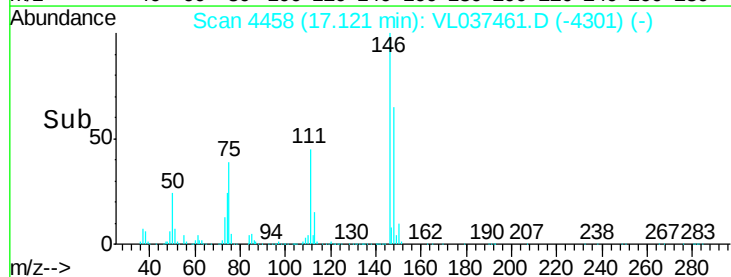
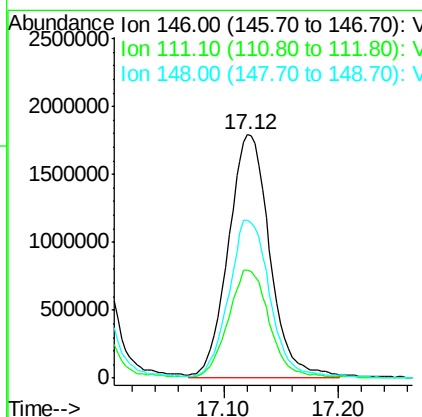
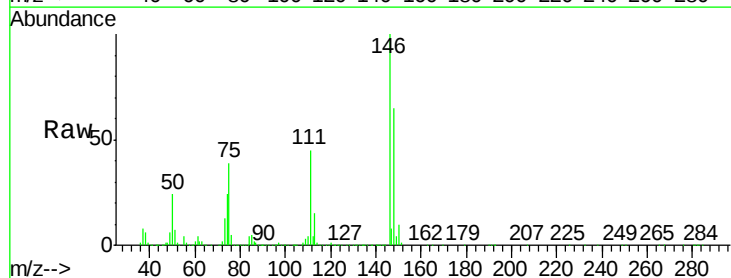
Manual Integrations
 APPROVED

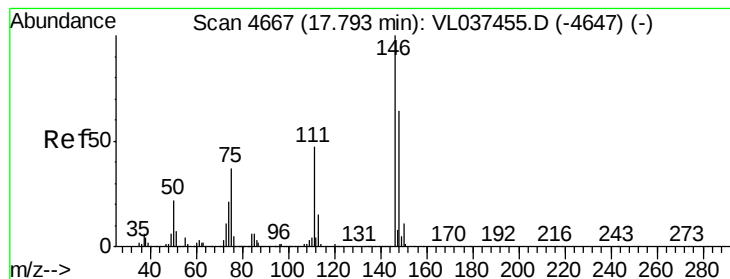
MMDadoda
 8/19/2021 5:59:17 PM



#76
 1,4-Dichlorobenzene
 Concen: 14.488 ppbv m
 RT: 17.12 min Scan# 4458
 Delta R.T. 0.01 min
 Lab File: VL037461.D
 Acq: 16 Aug 2021 14:18

Tgt Ion:146 Resp: 4531887
 Ion Ratio Lower Upper
 146 100
 111 44.1 22.1 66.5
 148 63.9 32.4 97.0





#77

1,2-Dichlorobenzene

Concen: 14.353 ppbv

RT: 17.80 min Scan# 4669

Delta R.T. 0.01 min

Lab File: VL037461.D

Acq: 16 Aug 2021 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 4357337

Ion Ratio Lower Upper

146 100

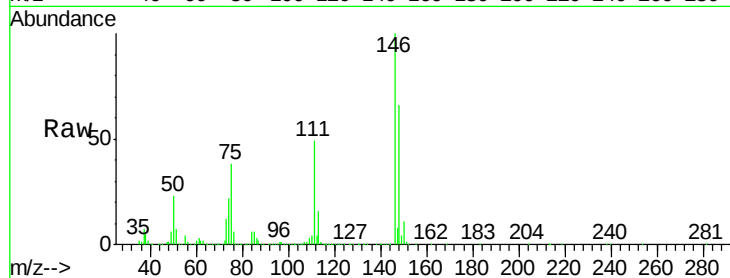
111 47.4 23.4 70.3

148 65.6 32.5 97.5

Manual Integrations
APPROVED

MMDadoda

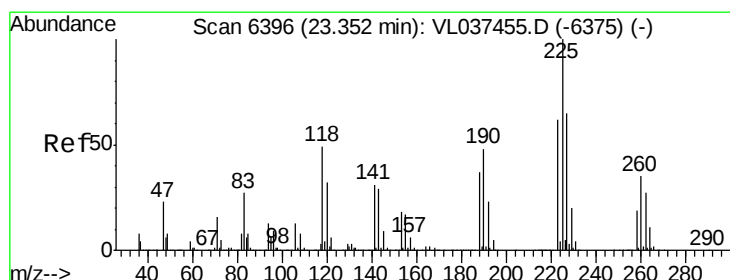
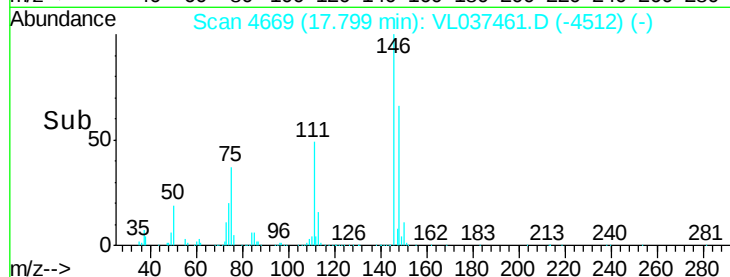
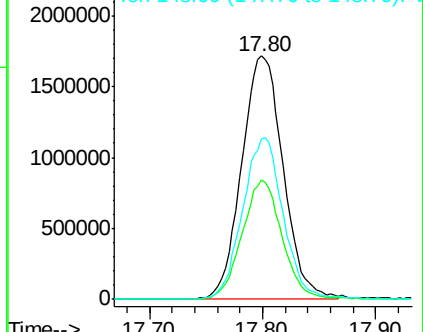
8/19/2021 5:59:17 PM



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 13.449 ppbv

RT: 23.36 min Scan# 6399

Delta R.T. 0.01 min

Lab File: VL037461.D

Acq: 16 Aug 2021 14:18

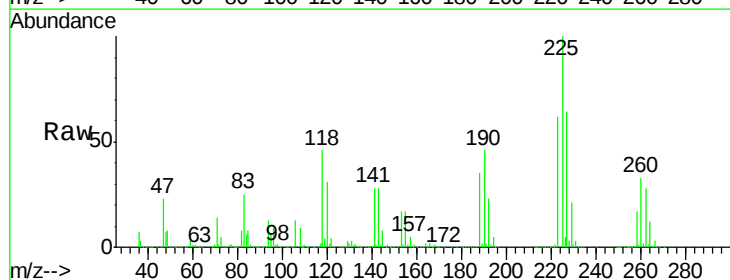
Tgt Ion:225 Resp: 3307076

Ion Ratio Lower Upper

225 100

223 64.6 51.4 77.0

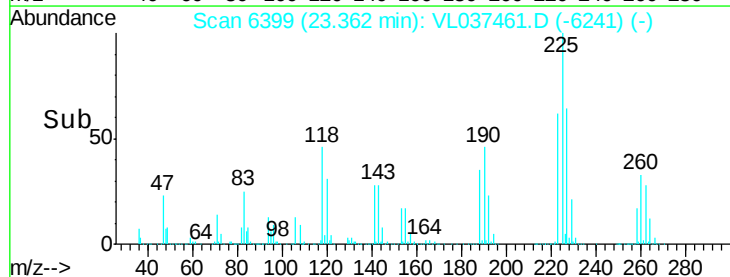
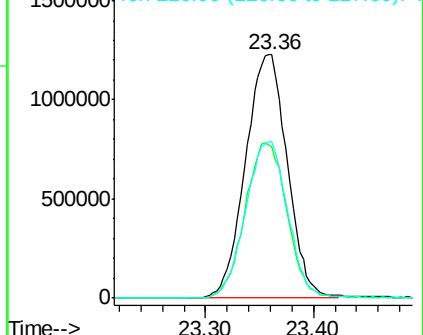
227 65.1 52.9 79.3

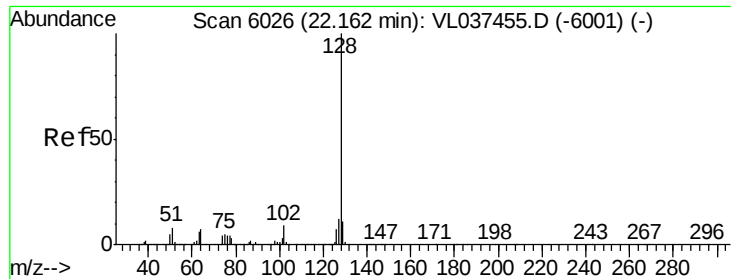


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





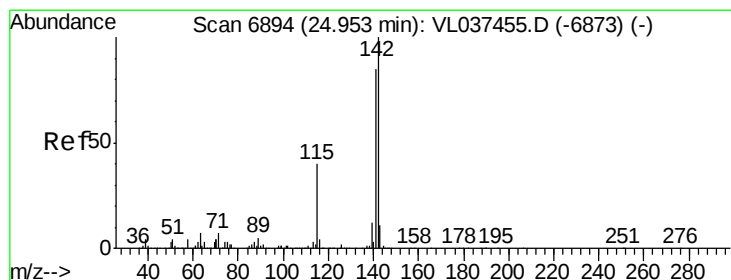
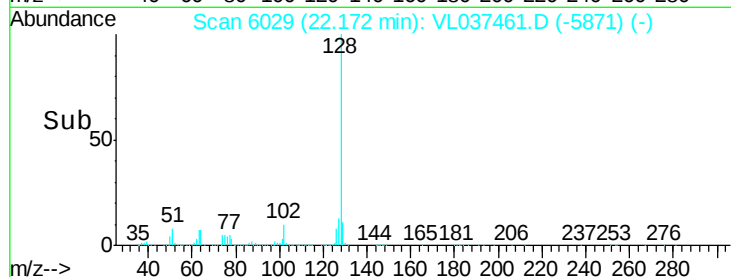
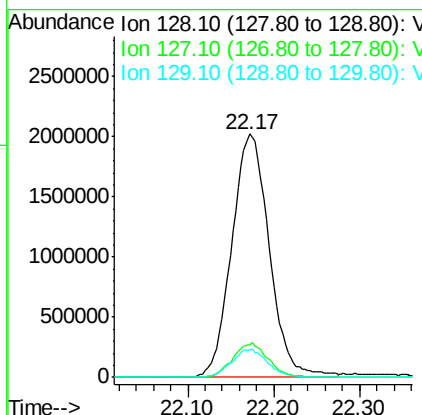
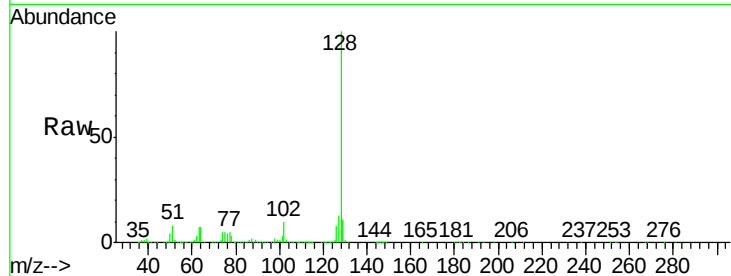
#79
Naphthalene
Concen: 21.885 ppbv
RT: 22.17 min Scan# 6029
Delta R.T. 0.01 min
Lab File: VL037461.D
Acq: 16 Aug 2021 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.1	9.4	14.2
129	11.4	8.8	13.2

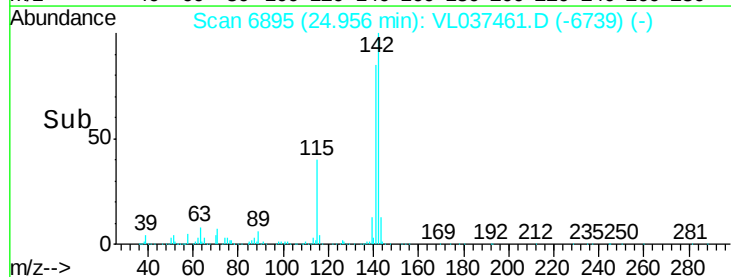
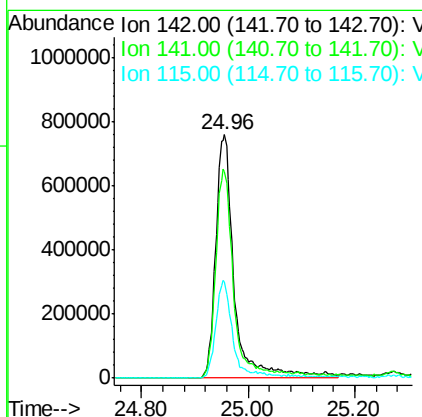
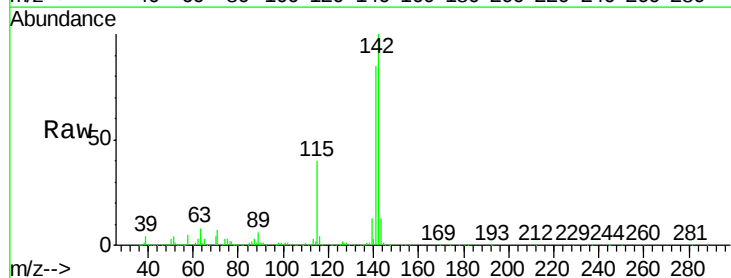
Manual Integrations
APPROVED

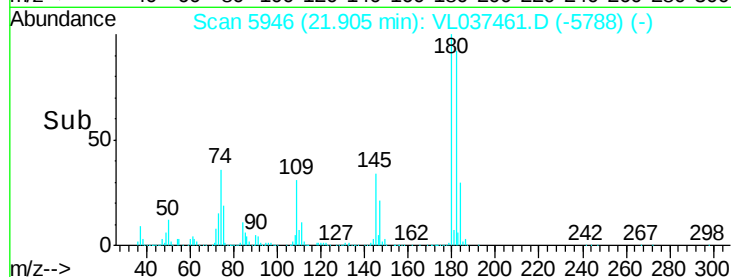
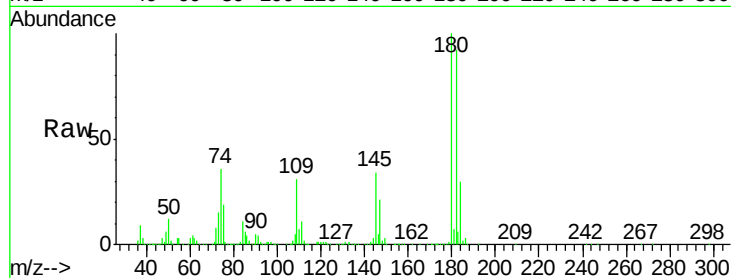
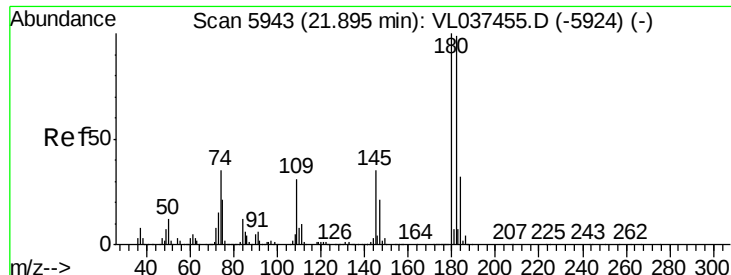
MMDadoda
8/19/2021 5:59:17 PM



#80
Naphthalene, 2-methyl-
Concen: 31.252 ppbv
RT: 24.96 min Scan# 6895
Delta R.T. 0.00 min
Lab File: VL037461.D
Acq: 16 Aug 2021 14:18

Tgt Ion	Ratio	Lower	Upper
142	100		
141	82.6	64.7	97.1
115	36.9	28.4	42.6





#81
 1,2,4-Trichlorobenzene
 Concen: 18.761 ppbv
 RT: 21.91 min Scan# 5946
 Delta R.T. 0.01 min
 Lab File: VL037461.D
 Acq: 16 Aug 2021 14:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.4	79.6	119.4
184	30.5	25.4	38.2

Manual Integrations
 APPROVED

MMDadoda
 8/19/2021 5:59:17 PM

