

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051821\
 Data File : VL036959.D
 Acq On : 18 May 2021 8:56
 Operator : SY/AP
 Sample : VL0518ABS01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0518ABS01

Manual Integrations
 APPROVED

MMDadoda
 5/20/2021 5:54:31 PM

Quant Time: May 19 13:00:17 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1299137	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	3856705	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3629099m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2830532	10.38	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	1950661	8.851	ppbv	98
3) Chlorodifluoromethane	2.97	51	2155003	9.054	ppbv	99
4) Chloromethane	3.12	50	776833	9.592	ppbv	100
5) Vinyl Chloride	3.24	62	803343	9.075	ppbv	98
6) Bromomethane	3.45	94	465770	9.985	ppbv	99
7) Chloroethane	3.54	64	281163	9.781	ppbv	98
8) Dichlorotetrafluoroethane	3.17	85	1914502	9.252	ppbv	100
9) Propene	2.99	41	769656	9.031	ppbv	99
10) Heptane	8.10	43	1932743	9.100	ppbv	99
11) Trichlorofluoromethane	3.93	101	1915446	9.390	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1343434	9.246	ppbv	98
13) Ethanol	3.59	45	89512m	7.872	ppbv	
14) Bromoethene	3.72	108	607042	9.485	ppbv	100
15) Acetone	3.83	43	1012029	7.605	ppbv	99
16) 1,3-Butadiene	3.31	39	776028	9.387	ppbv	100
17) tert-Butyl alcohol	4.27	59	1197927	9.828	ppbv	99
18) 1,1-Dichloroethene	4.27	96	624539	9.295	ppbv	97
19) Isopropyl Alcohol	3.95	45	684925m	9.575	ppbv	
20) Methylene Chloride	4.32	84	535358	7.505	ppbv	99
21) Allyl Chloride	4.39	41	942311	9.387	ppbv	99
22) trans-1,2-Dichloroethene	4.86	96	623207	9.678	ppbv	97
23) Vinyl Acetate	5.05	43	2048833	9.701	ppbv	99
24) 1,1-Dichloroethane	4.99	63	1403690	9.233	ppbv	99
25) Ethyl Acetate	5.65	43	2911951	9.107	ppbv	100
26) Hexane	5.66	57	1434044	8.779	ppbv	99
27) Carbon Disulfide	4.53	76	1580087	9.598	ppbv	99
28) Methyl tert-Butyl Ether	5.01	73	1735718	8.865	ppbv	100
29) Chloroform	5.73	83	2152330	9.326	ppbv	98
30) Cyclohexane	7.10	84	1260800	9.083	ppbv	99
31) cis-1,2-Dichloroethene	5.52	61	1409181	9.622	ppbv	97
32) 1,1,1-Trichloroethane	6.48	97	2217567	8.949	ppbv	100
34) 2-Butanone	5.22	43	1389137	9.892	ppbv	99
35) Carbon Tetrachloride	6.99	117	2278721	8.892	ppbv	98
36) Benzene	6.86	78	3041990	9.157	ppbv	99
37) 1,2-Dichloroethane	6.28	62	1563612	9.494	ppbv	99
38) Trichloroethene	7.81	130	1200447	8.447	ppbv	98
39) 1,2-Dichloropropane	7.59	63	1163934	9.095	ppbv	100
40) 1,4-Dioxane	7.81	88	292457	9.679	ppbv #	100
41) Tetrahydrofuran	6.03	42	749060	9.365	ppbv	99
42) Bromodichloromethane	7.76	83	2373498	9.526	ppbv	99
43) Methyl Methacrylate	7.99	69	1093490	9.550	ppbv	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051821\
 Data File : VL036959.D
 Acq On : 18 May 2021 8:56
 Operator : SY/AP
 Sample : VL0518ABS01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0518ABS01

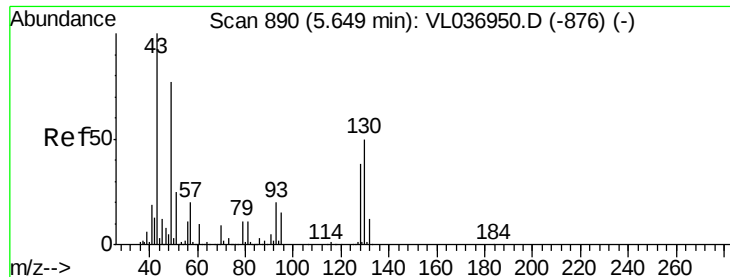
Manual Integrations
 APPROVED

MMDadoda
 5/20/2021 5:54:31 PM

Quant Time: May 19 13:00:17 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.84	57	4944260	8.675	ppbv	99
45) t-1,3-Dichloropropene	9.25	75	1159946	13.260	ppbv	97
46) cis-1,3-Dichloropropene	8.67	75	1450061	12.324	ppbv	99
47) 1,1,2-Trichloroethane	9.45	97	1247327	9.313	ppbv	98
48) Dibromochloromethane	10.28	129	2157902	9.950	ppbv	100
49) Bromoform	13.01	173	1834031	10.240	ppbv	100
50) 4-Methyl-2-Pentanone	8.72	43	2146332	9.262	ppbv	100
51) 2-Hexanone	10.11	43	1123875	9.174	ppbv #	100
52) Tetrachloroethene	11.19	164	1195532	9.050	ppbv	97
53) Toluene	9.78	91	3609957	9.133	ppbv	99
54) 1,2-Dibromoethane	10.58	107	1834223	9.633	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.10	131	1423383	9.321	ppbv	99
57) Chlorobenzene	12.12	112	2677514	9.515	ppbv	99
58) Ethyl Benzene	12.68	91	4745208	9.264	ppbv	99
59) m/p-Xylene	12.97	91	7787605m	18.394	ppbv	
60) o-Xylene	13.66	91	3692242	9.144	ppbv	100
61) Styrene	13.50	104	2276490	10.007	ppbv	99
62) Isopropylbenzene	14.64	105	5212680	8.982	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.65	83	2574072	8.535	ppbv	100
64) n-propylbenzene	15.53	120	1430530	9.554	ppbv	100
65) tert-Butylbenzene	16.72	119	4644248	8.869	ppbv	99
66) Benzyl Chloride	16.96	91	351521m	12.098	ppbv	
67) sec-Butylbenzene	17.27	105	6344591	8.881	ppbv	100
69) p-Isopropyltoluene	17.62	119	5497499	8.950	ppbv	100
70) n-Butylbenzene	18.52	91	5337102	9.147	ppbv	99
71) 2-Chlorotoluene	15.42	91	3913233	9.336	ppbv	99
72) 4-Ethyltoluene	15.81	105	4571648	9.539	ppbv	100
73) 1,3,5-Trimethylbenzene	15.97	105	4117103	9.148	ppbv	99
74) 1,2,4-Trimethylbenzene	16.73	105	4244211	9.121	ppbv	99
75) 1,3-Dichlorobenzene	16.97	146	2665546	9.380	ppbv	100
76) 1,4-Dichlorobenzene	17.11	146	2586203	9.002	ppbv	99
77) 1,2-Dichlorobenzene	17.79	146	2601903	9.138	ppbv	99
78) Hexachloro-1,3-Butadiene	23.35	225	1882096	8.220	ppbv	100
79) Naphthalene	22.16	128	3928981	10.761	ppbv	99
80) Naphthalene, 2-methyl-	24.95	142	1150798	14.494	ppbv	99
81) 1,2,4-Trichlorobenzene	21.90	180	2228450	10.012	ppbv	98

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 888

Delta R.T. -0.01 min

Lab File: VL036959.D

Acq: 18 May 2021 8:56

Instrument :

MSVOA_L

ClientSampleId :

VL0518ABS01

Tot Ion: 49 Resp: 1299137

Ion Ratio Lower Upper

49 100

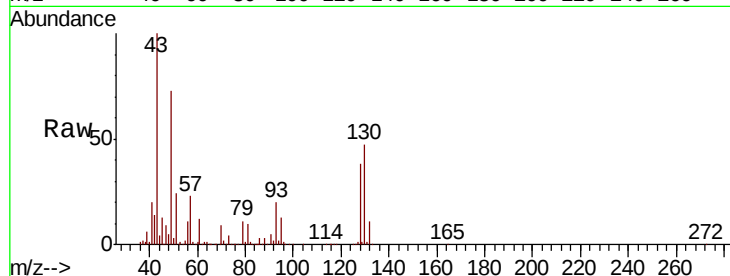
128 55.5 26.9 80.7

130 67.8 33.8 101.4

Manual Integrations
APPROVED

MMDadoda

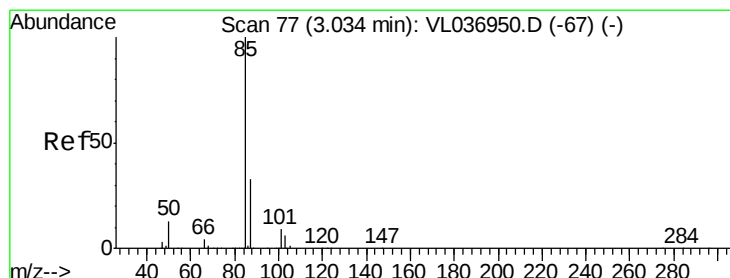
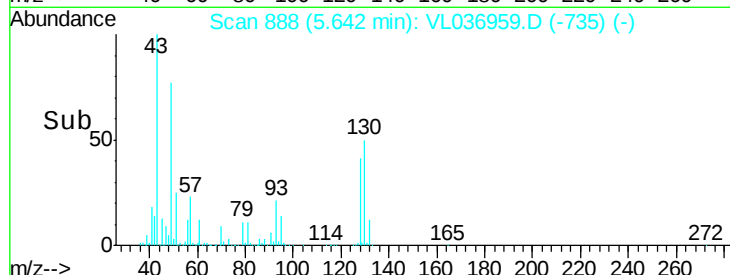
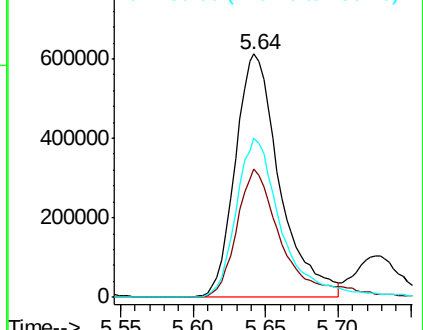
5/20/2021 5:54:31 PM



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



#2

Dichlorodifluoromethane

Concen: 8.851 ppbv

RT: 3.03 min Scan# 75

Delta R.T. -0.01 min

Lab File: VL036959.D

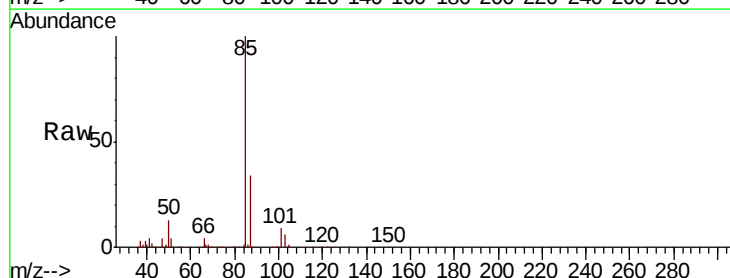
Acq: 18 May 2021 8:56

Tgt Ion: 85 Resp: 1950661

Ion Ratio Lower Upper

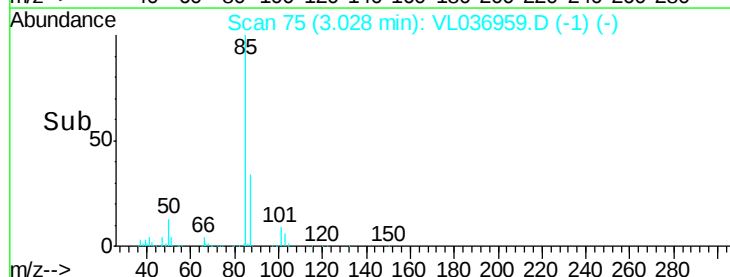
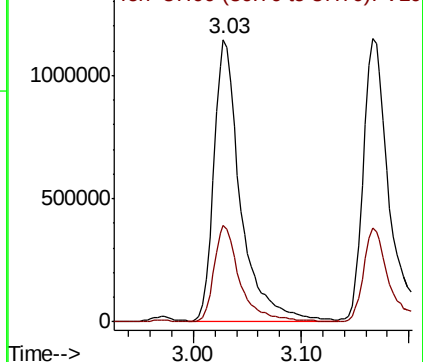
85 100

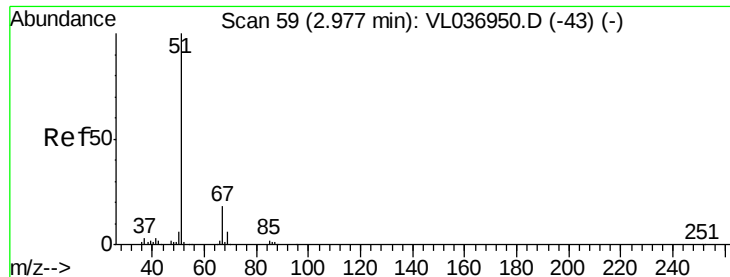
87 34.3 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.054 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.01 min

Lab File: VL036959.D

Acq: 18 May 2021 8:56

Instrument :

MSVOA_L

ClientSampleId :

VL0518ABS01

Tot Ion: 51 Resp: 2155003

Ion Ratio Lower Upper

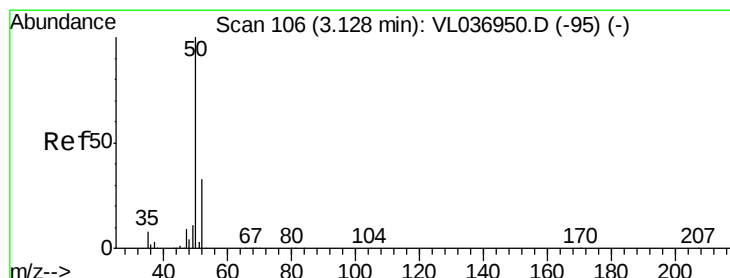
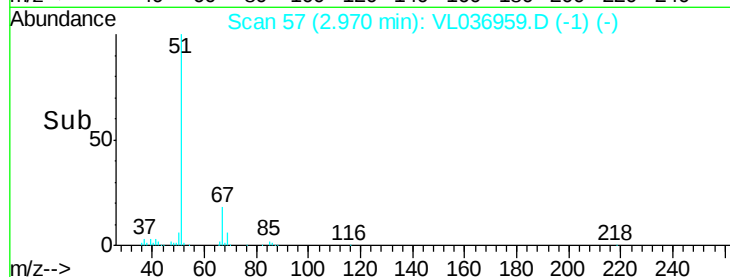
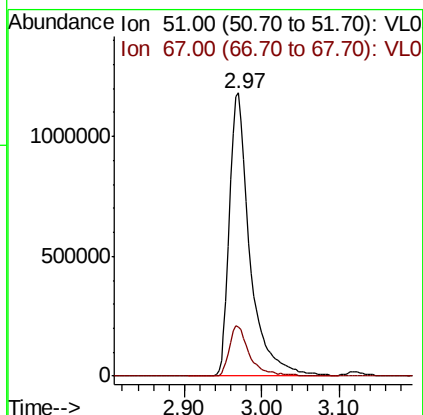
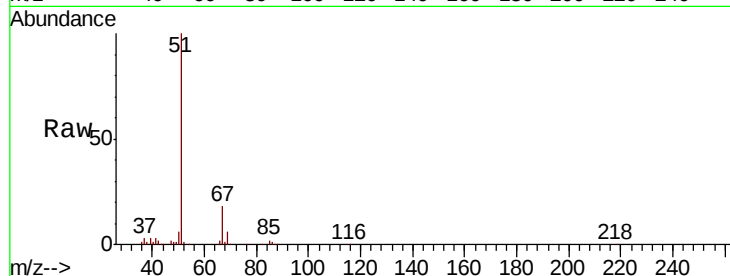
51 100

67 17.8 14.6 21.8

Manual Integrations
APPROVED

MMDadoda

5/20/2021 5:54:31 PM



#4

Chloromethane

Concen: 9.592 ppbv

RT: 3.12 min Scan# 104

Delta R.T. -0.01 min

Lab File: VL036959.D

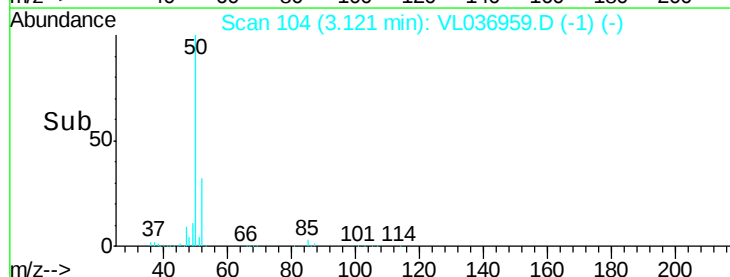
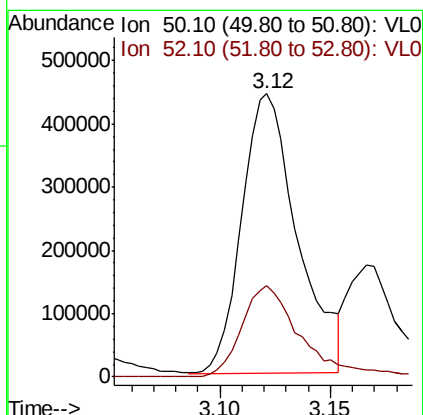
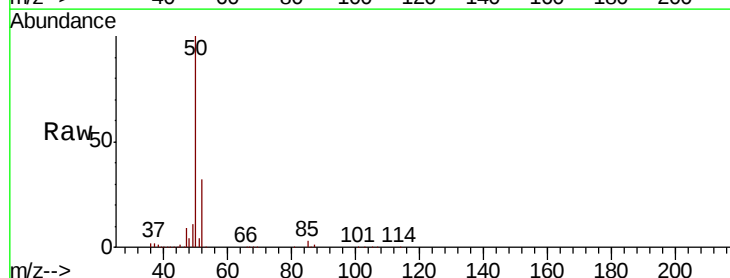
Acq: 18 May 2021 8:56

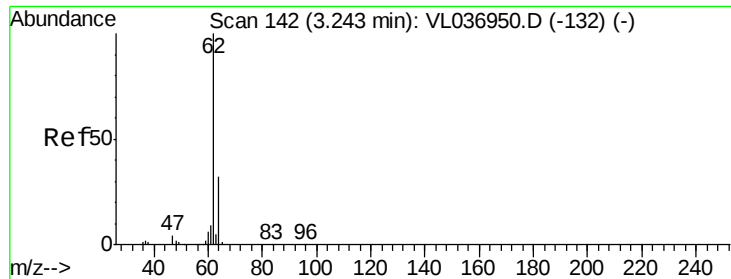
Tgt Ion: 50 Resp: 776833

Ion Ratio Lower Upper

50 100

52 32.7 26.1 39.1





#5

Vinyl Chloride

Concen: 9.075 ppbv

RT: 3.24 min Scan# 140

Delta R.T. -0.01 min

Lab File: VL036959.D

Acq: 18 May 2021 8:56

Instrument :

MSVOA_L

ClientSampleId :

VL0518ABS01

Tot Ion: 62 Resp: 803343

Ion Ratio Lower Upper

62 100

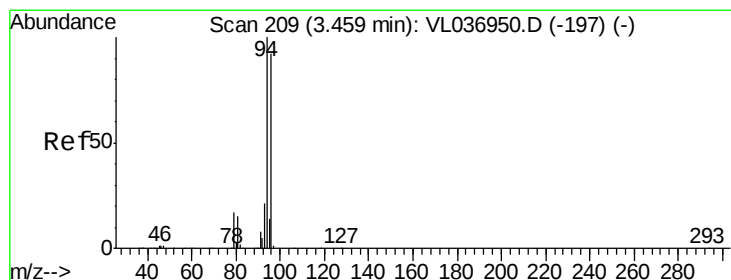
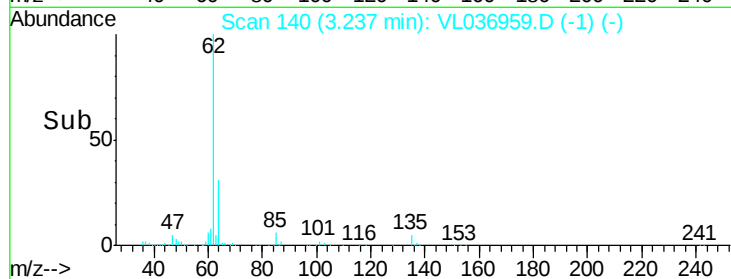
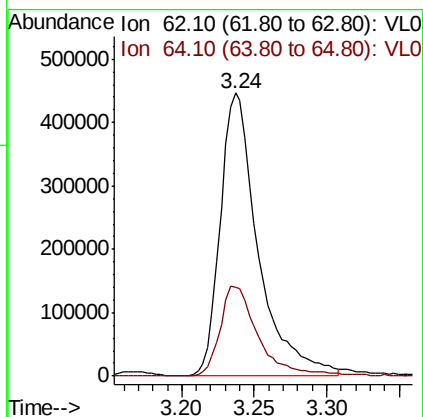
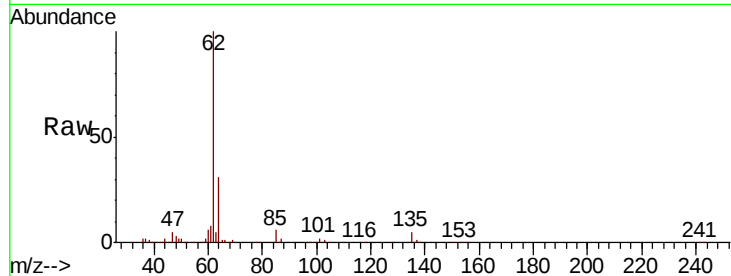
64 31.2 25.9 38.9

Manual Integrations

APPROVED

MMDadoda

5/20/2021 5:54:31 PM



#6

Bromomethane

Concen: 9.985 ppbv

RT: 3.45 min Scan# 207

Delta R.T. -0.01 min

Lab File: VL036959.D

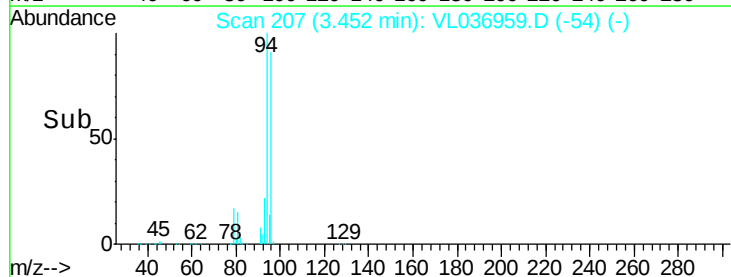
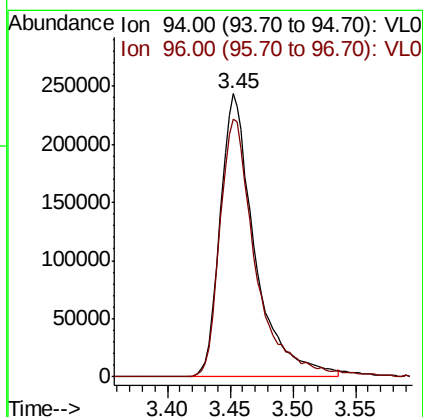
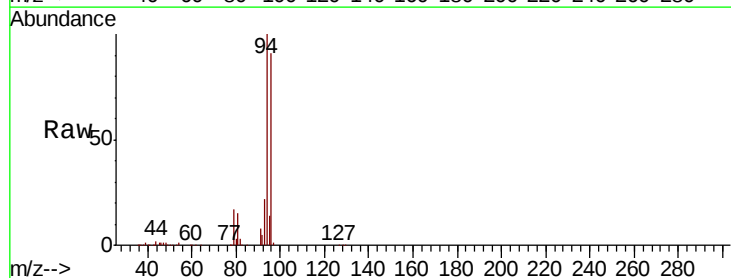
Acq: 18 May 2021 8:56

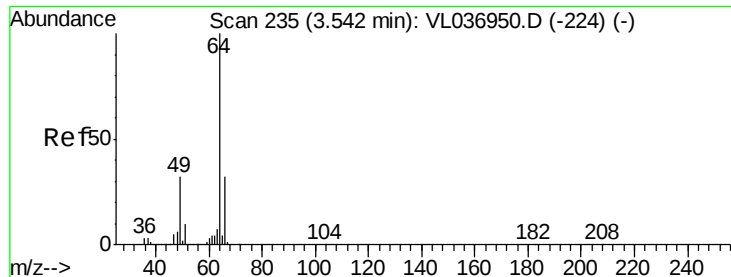
Tgt Ion: 94 Resp: 465770

Ion Ratio Lower Upper

94 100

96 91.1 74.0 111.0





#7

Chloroethane

Concen: 9.781 ppbv

RT: 3.54 min Scan# 233

Delta R.T. -0.01 min

Lab File: VL036959.D

Acq: 18 May 2021 8:56

Instrument :

MSVOA_L

ClientSampleId :

VL0518ABS01

Tot Ion: 64 Resp: 281163

Ion Ratio Lower Upper

64 100

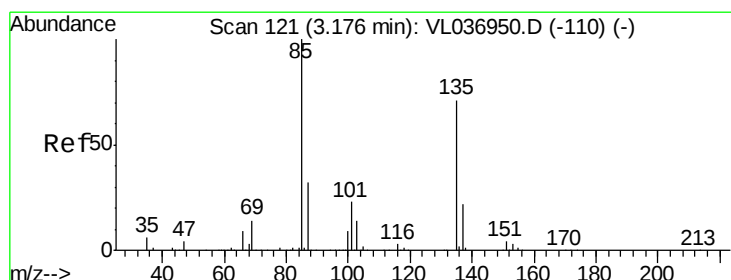
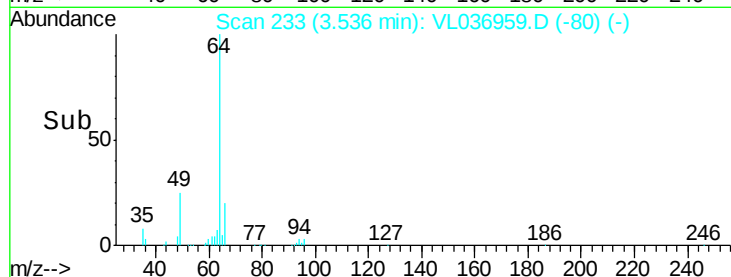
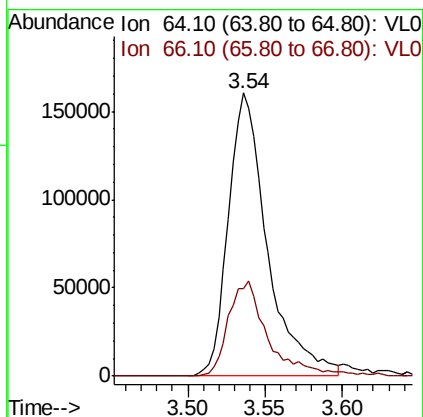
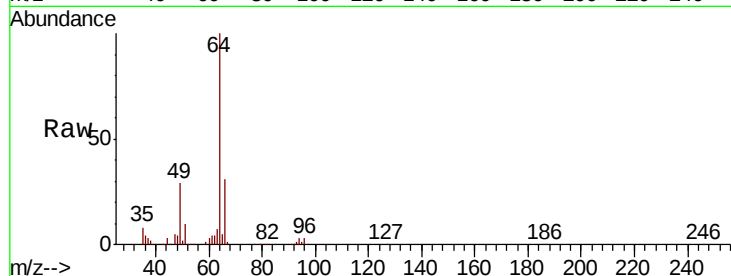
66 30.8 25.4 38.2

Manual Integrations

APPROVED

MMDadoda

5/20/2021 5:54:31 PM



#8

Dichlorotetrafluoroethane

Concen: 9.252 ppbv

RT: 3.17 min Scan# 118

Delta R.T. -0.01 min

Lab File: VL036959.D

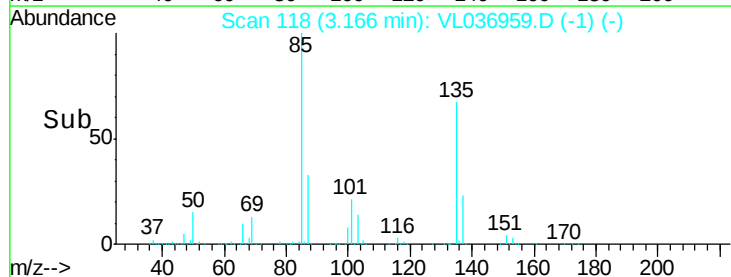
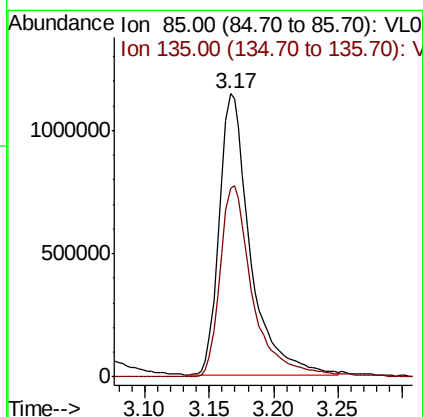
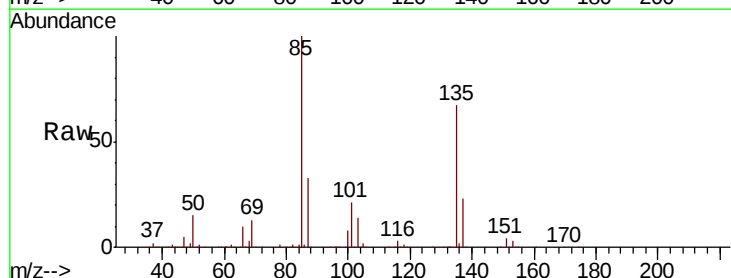
Acq: 18 May 2021 8:56

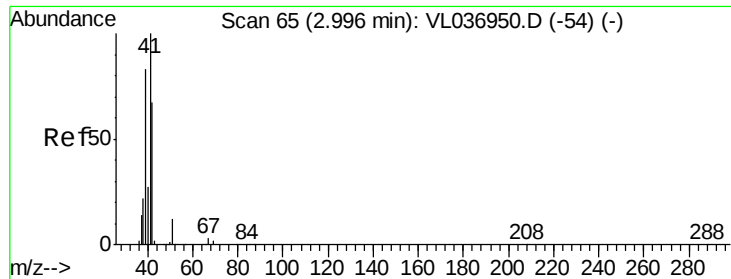
Tgt Ion: 85 Resp: 1914502

Ion Ratio Lower Upper

85 100

135 72.0 57.7 86.5





#9

Propene

Concen: 9.031 ppbv

RT: 2.99 min Scan# 63

Delta R.T. -0.01 min

Lab File: VL036959.D

Acq: 18 May 2021 8:56

Instrument :

MSVOA_L

ClientSampleId :

VL0518ABS01

Tot Ion: 41 Resp: 769656

Ion Ratio Lower Upper

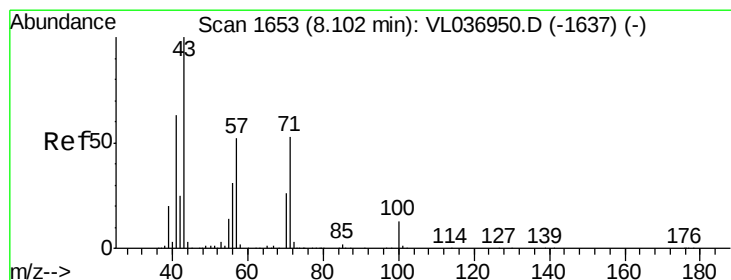
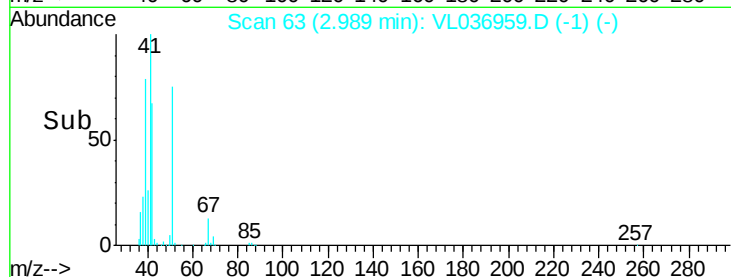
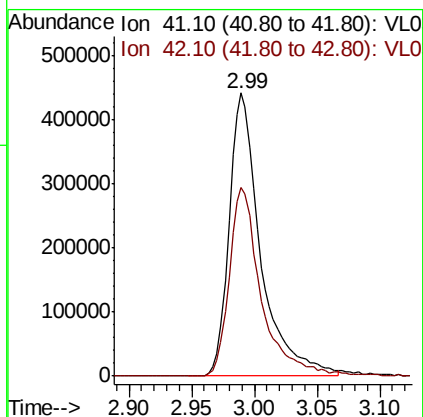
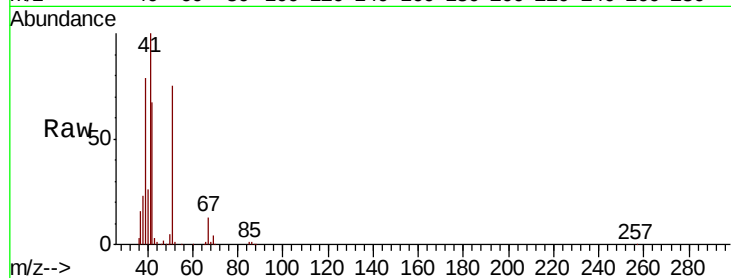
41 100

42 68.3 53.9 80.9

Manual Integrations
APPROVED

MMDadoda

5/20/2021 5:54:31 PM



#10

Heptane

Concen: 9.100 ppbv

RT: 8.10 min Scan# 1651

Delta R.T. -0.01 min

Lab File: VL036959.D

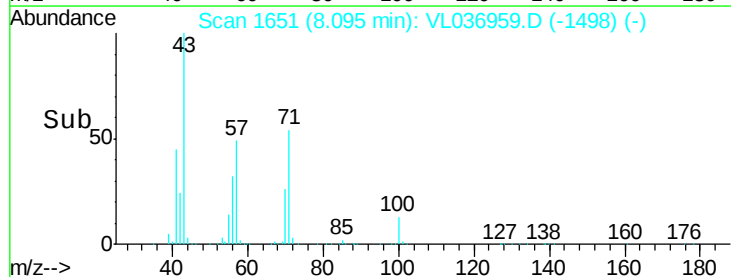
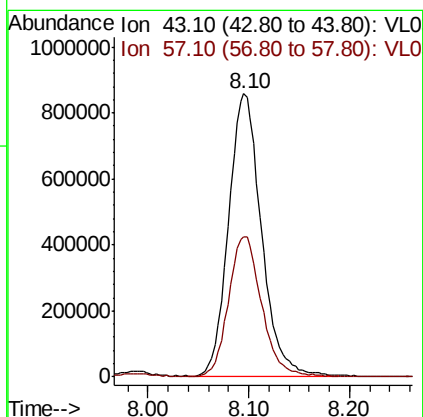
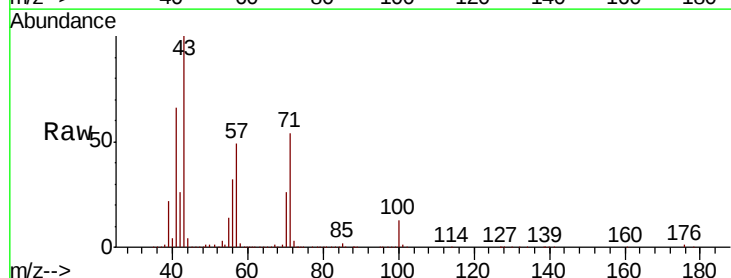
Acq: 18 May 2021 8:56

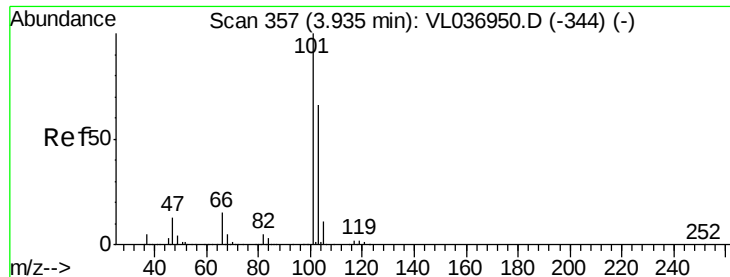
Tgt Ion: 43 Resp: 1932743

Ion Ratio Lower Upper

43 100

57 50.4 41.0 61.6





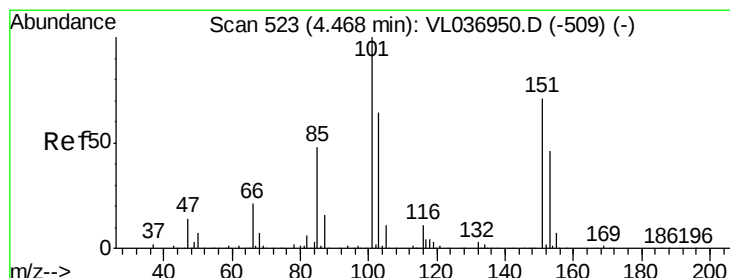
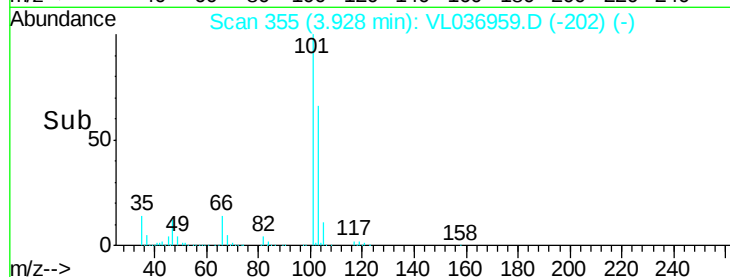
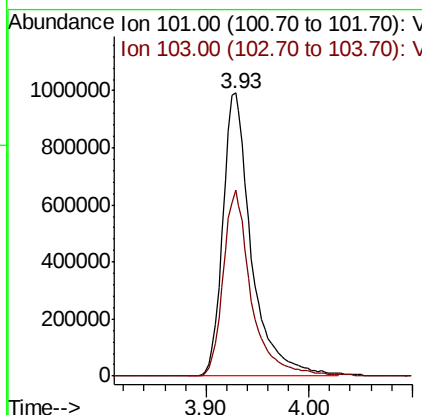
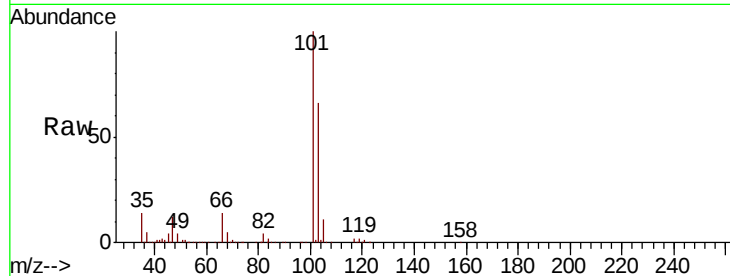
#11
 Trichlorofluoromethane
 Concen: 9.390 ppbv
 RT: 3.93 min Scan# 355
 Delta R.T. -0.01 min
 Lab File: VL036959.D
 Acq: 18 May 2021 8:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0518ABS01

Tot Ion:101 Resp: 1915446
 Ion Ratio Lower Upper
 101 100
 103 65.8 52.6 79.0

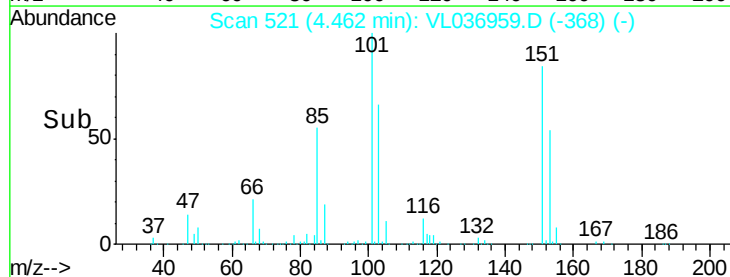
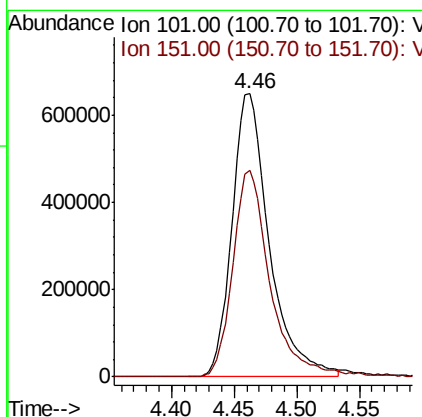
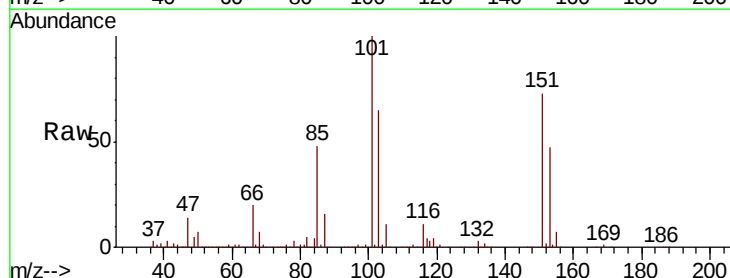
Manual Integrations
 APPROVED

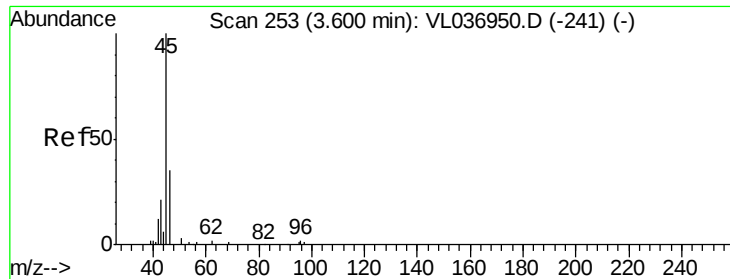
MMDadoda
 5/20/2021 5:54:31 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.246 ppbv
 RT: 4.46 min Scan# 521
 Delta R.T. -0.01 min
 Lab File: VL036959.D
 Acq: 18 May 2021 8:56

Tgt Ion:101 Resp: 1343434
 Ion Ratio Lower Upper
 101 100
 151 73.5 57.7 86.5





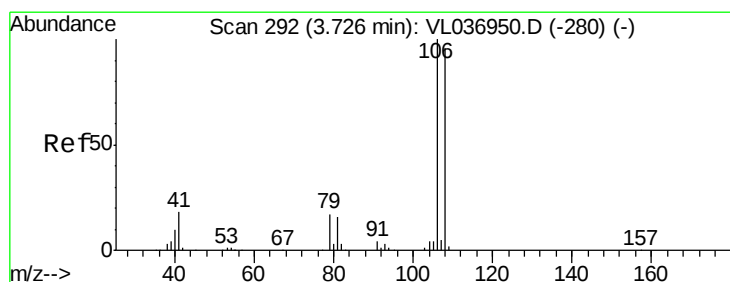
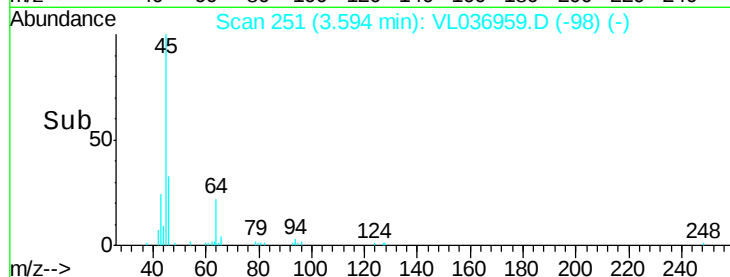
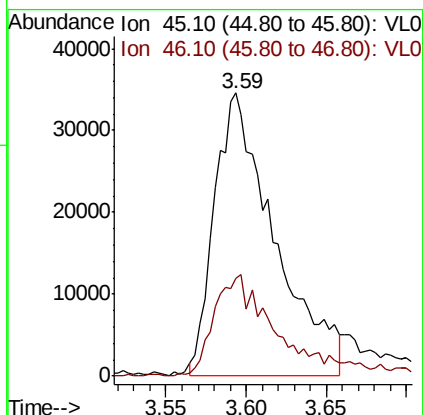
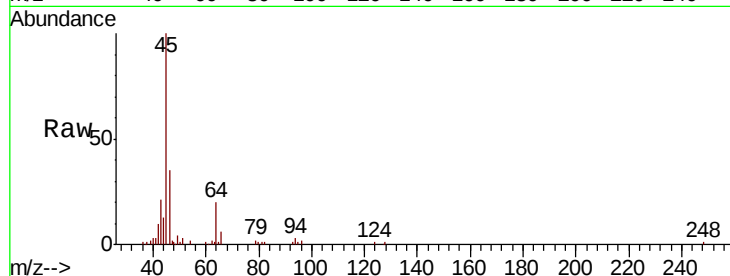
#13
Ethanol
Concen: 7.872 ppbv m
RT: 3.59 min Scan# 251
Delta R.T. -0.01 min
Lab File: VL036959.D
Acq: 18 May 2021 8:56

Instrument :
MSVOA_L
ClientSampleId :
VL0518ABS01

Tot Ion	Ratio	Lower	Upper
45	100		
46	39.3	16.3	65.3

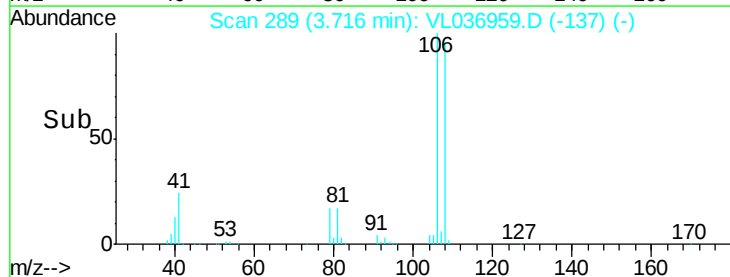
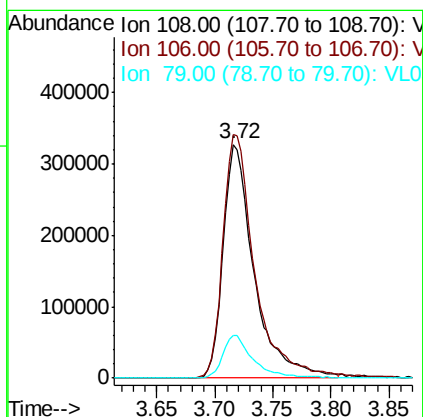
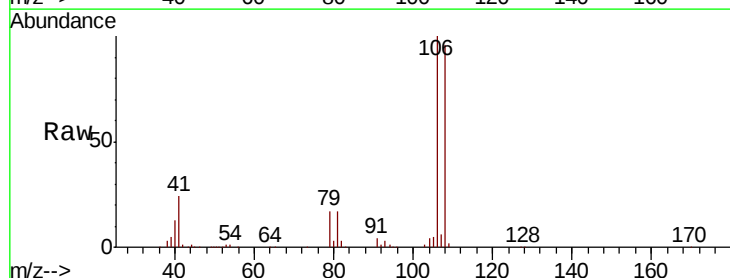
Manual Integrations
APPROVED

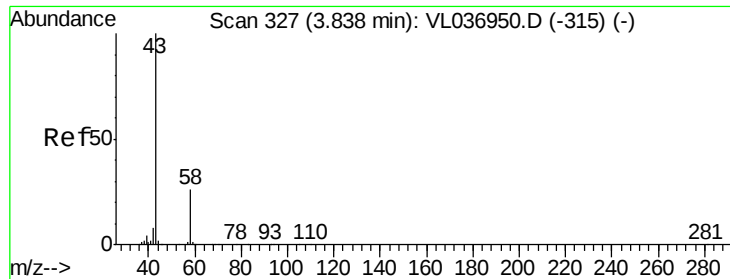
MMDadoda
5/20/2021 5:54:31 PM



#14
Bromoethene
Concen: 9.485 ppbv
RT: 3.72 min Scan# 289
Delta R.T. -0.01 min
Lab File: VL036959.D
Acq: 18 May 2021 8:56

Tgt Ion	Ratio	Lower	Upper
108	100		
106	108.1	86.5	129.7
79	18.3	15.0	22.4





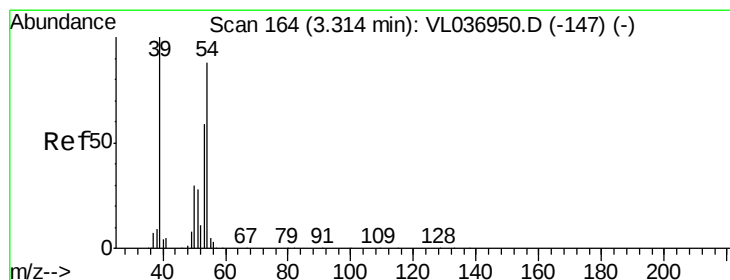
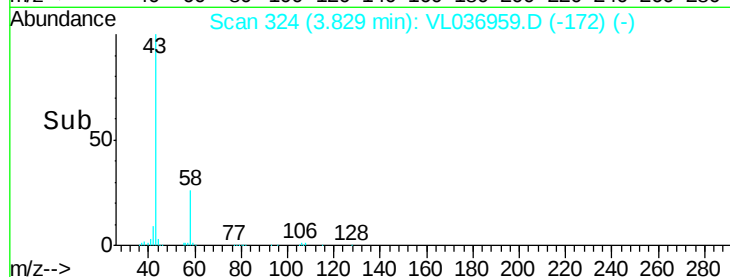
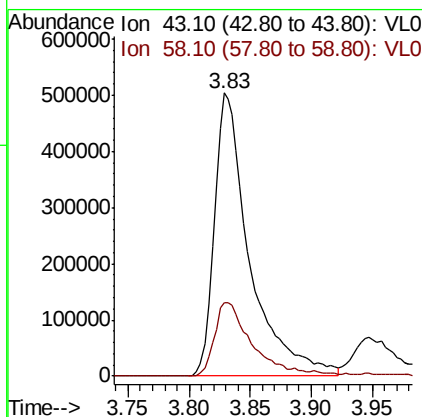
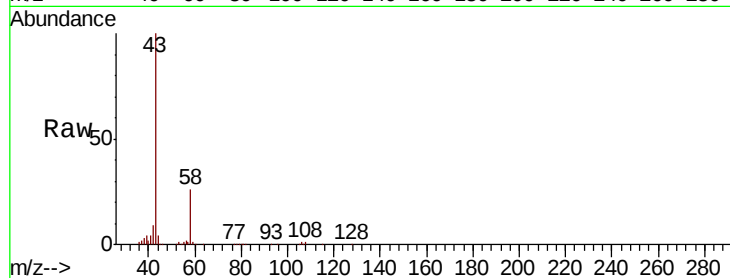
#15
Acetone
Concen: 7.605 ppbv
RT: 3.83 min Scan# 324
Delta R.T. -0.01 min
Lab File: VL036959.D
Acq: 18 May 2021 8:56

Instrument :
MSVOA_L
ClientSampleId :
VL0518ABS01

Tot Ion: 43 Resp: 1012029
Ion Ratio Lower Upper
43 100
58 30.3 24.0 36.0

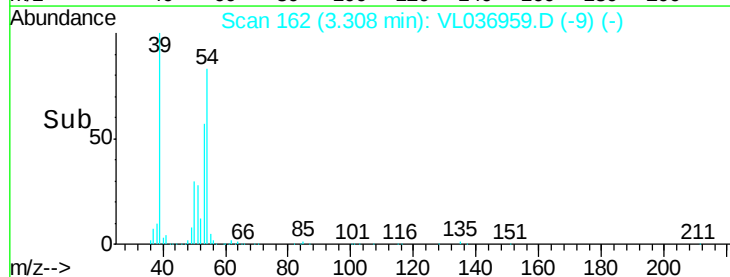
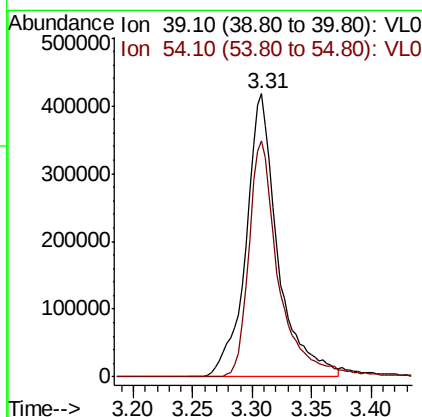
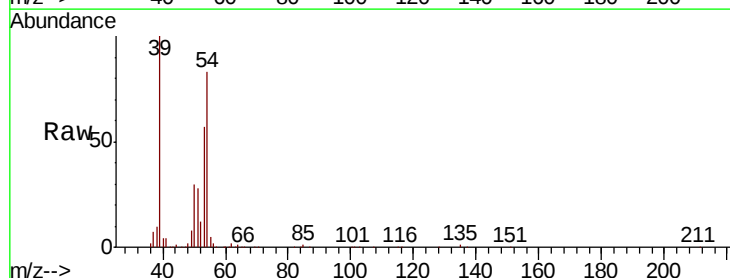
Manual Integrations
APPROVED

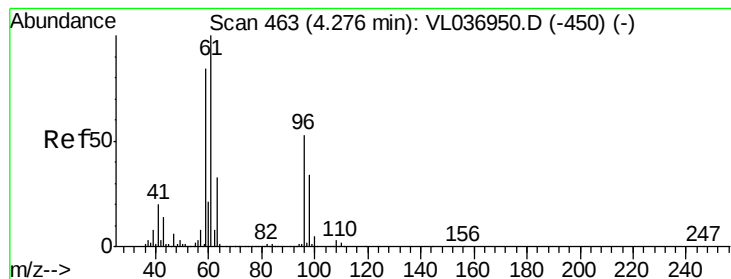
MMDadoda
5/20/2021 5:54:31 PM



#16
1,3-Butadiene
Concen: 9.387 ppbv
RT: 3.31 min Scan# 162
Delta R.T. -0.01 min
Lab File: VL036959.D
Acq: 18 May 2021 8:56

Tgt Ion: 39 Resp: 776028
Ion Ratio Lower Upper
39 100
54 79.0 63.2 94.8





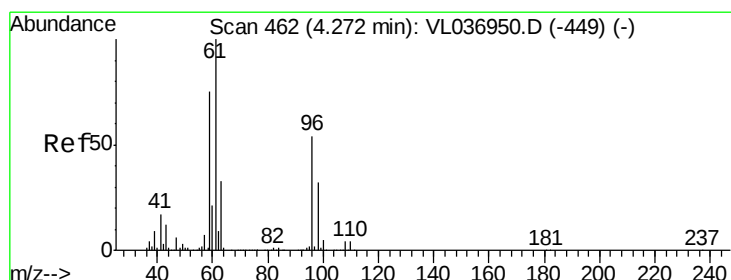
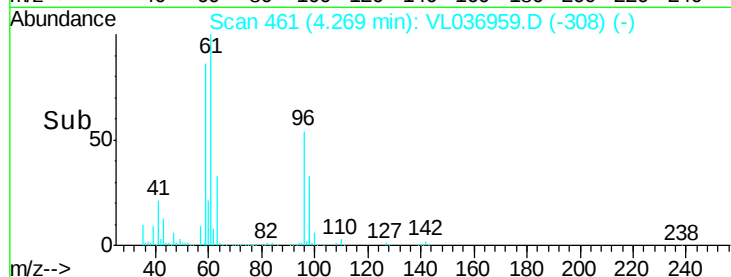
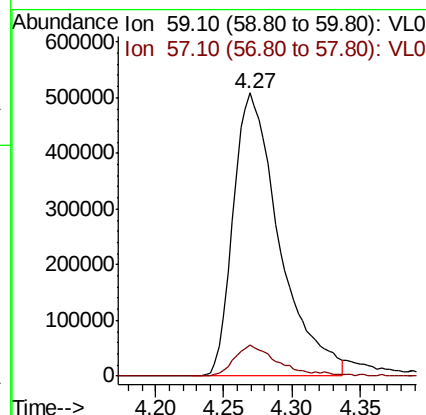
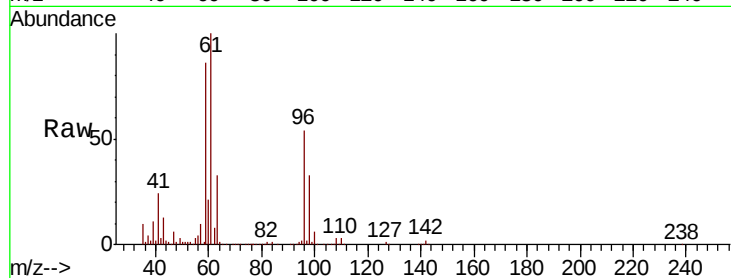
#17
 tert-Butyl alcohol
 Concen: 9.828 ppbv
 RT: 4.27 min Scan# 461
 Delta R.T. -0.01 min
 Lab File: VL036959.D
 Acq: 18 May 2021 8:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0518ABS01

Tot Ion: 59 Resp: 1197927
 Ion Ratio Lower Upper
 59 100
 57 10.9 8.3 12.5

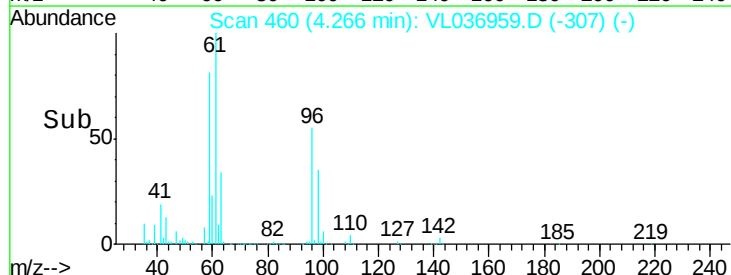
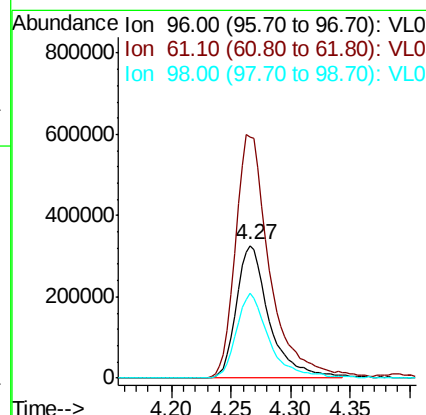
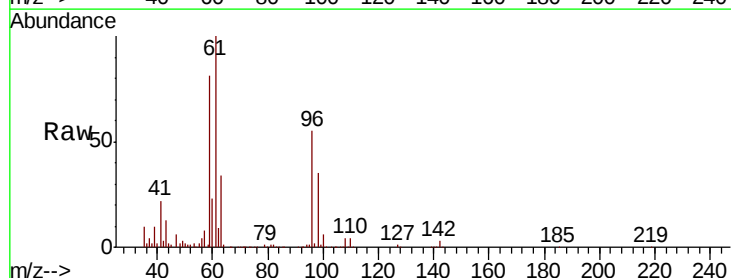
Manual Integrations
 APPROVED

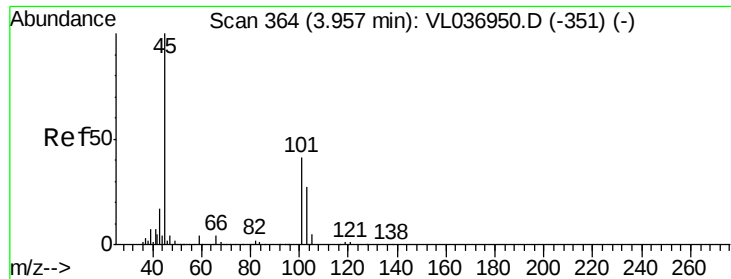
MMDadoda
 5/20/2021 5:54:31 PM



#18
 1,1-Dichloroethene
 Concen: 9.295 ppbv
 RT: 4.27 min Scan# 460
 Delta R.T. -0.01 min
 Lab File: VL036959.D
 Acq: 18 May 2021 8:56

Tgt Ion: 96 Resp: 624539
 Ion Ratio Lower Upper
 96 100
 61 182.0 148.2 222.4
 98 64.0 47.8 71.6





#19

Isopropyl Alcohol

Concen: 9.575 ppbv m

RT: 3.95 min Scan# 361

Delta R.T. -0.01 min

Lab File: VL036959.D

Acq: 18 May 2021 8:56

Instrument :

MSVOA_L

ClientSampleId :

VL0518ABS01

Tot Ion: 45 Resp: 684925

Ion Ratio Lower Upper

45 100

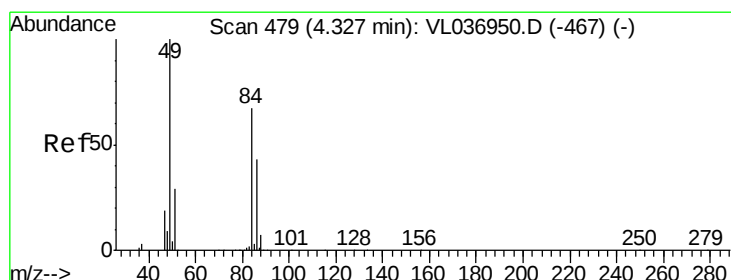
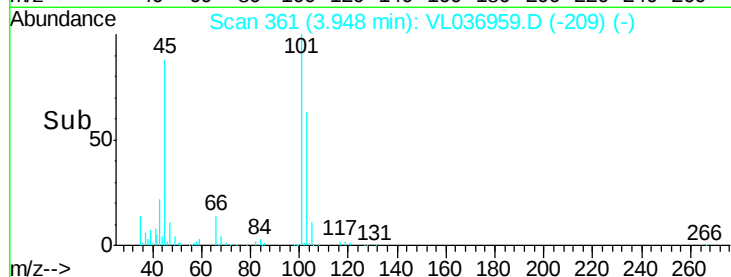
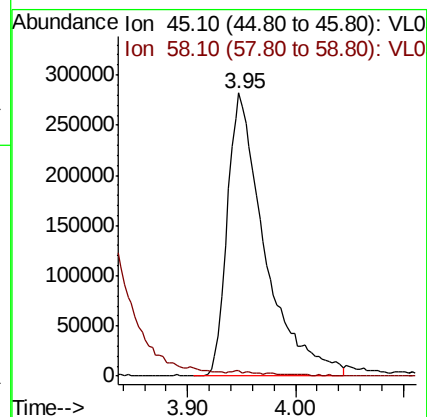
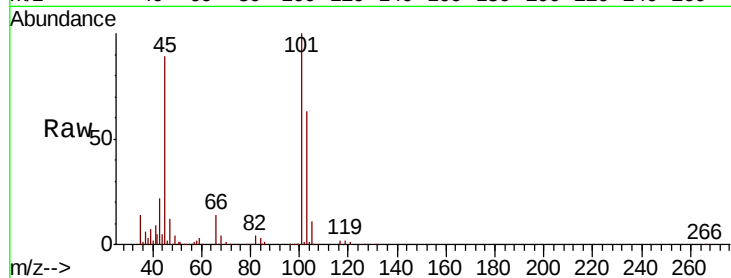
58 0.0 37.2 55.8#

Manual Integrations

APPROVED

MMDadoda

5/20/2021 5:54:31 PM



#20

Methylene Chloride

Concen: 7.505 ppbv

RT: 4.32 min Scan# 478

Delta R.T. -0.00 min

Lab File: VL036959.D

Acq: 18 May 2021 8:56

Tgt Ion: 84 Resp: 535358

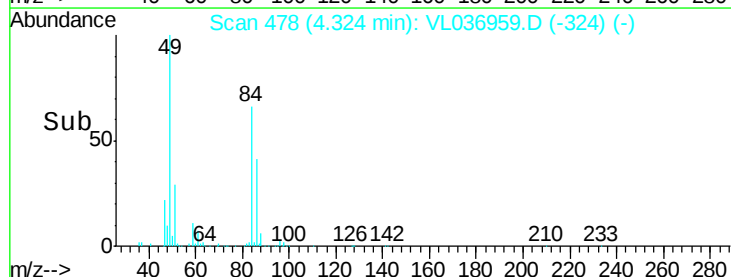
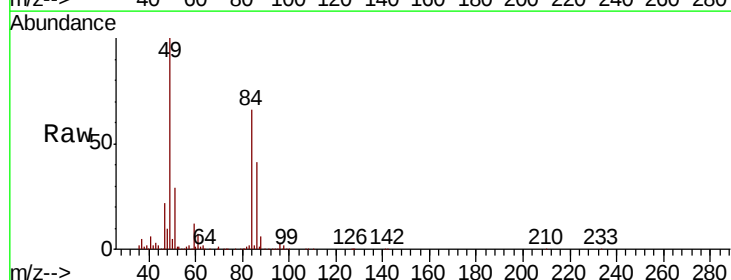
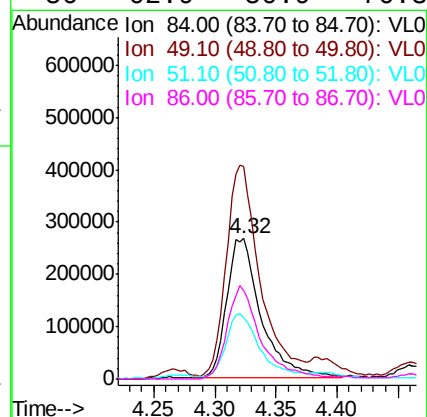
Ion Ratio Lower Upper

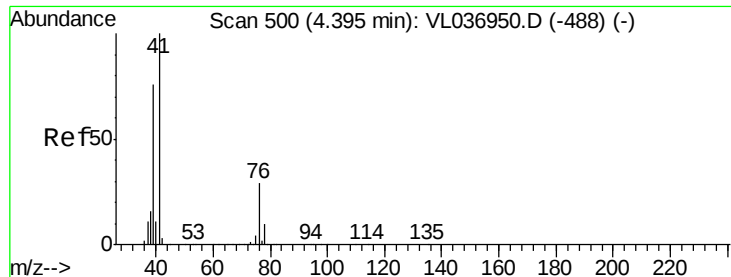
84 100

49 149.1 119.8 179.6

51 42.1 35.1 52.7

86 62.9 50.9 76.3





#21

Allvl Chloride

Concen: 9.387 ppbv

RT: 4.39 min Scan# 498

Delta R.T. -0.01 min

Lab File: VL036959.D

Acq: 18 May 2021 8:56

Instrument :

MSVOA_L

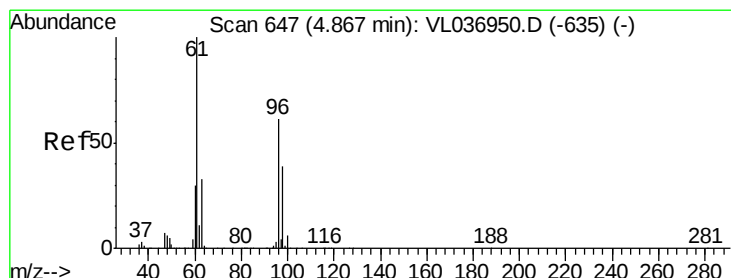
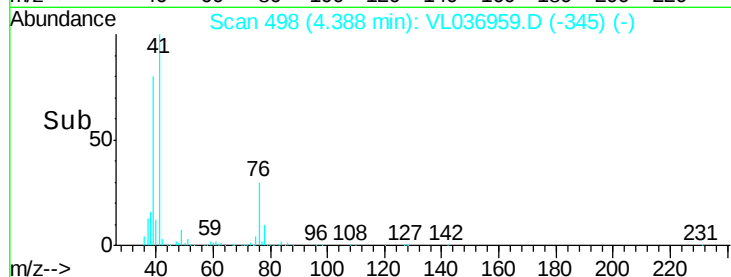
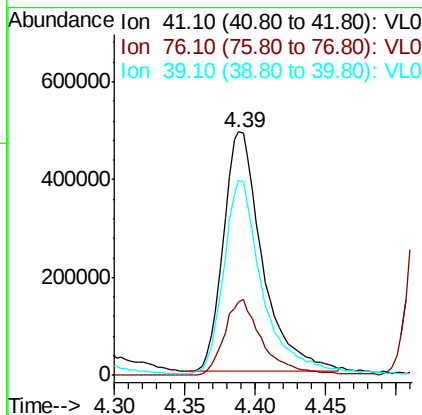
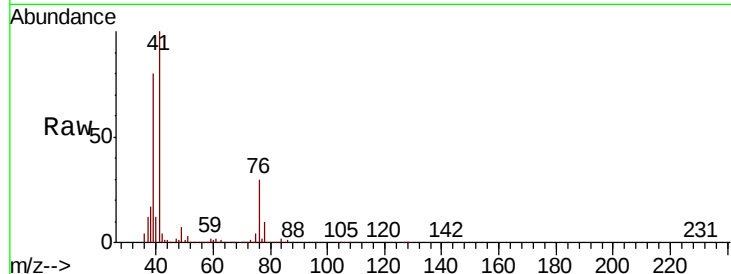
ClientSampleId :

VL0518ABS01

Tot Ion:	41	Resp:	942311
Ion Ratio	Lower	Upper	
41	100		
76	31.7	24.9	37.3
39	81.1	63.7	95.5

Manual Integrations
APPROVED

MMDadoda
5/20/2021 5:54:31 PM



#22

trans-1,2-Dichloroethene

Concen: 9.678 ppbv

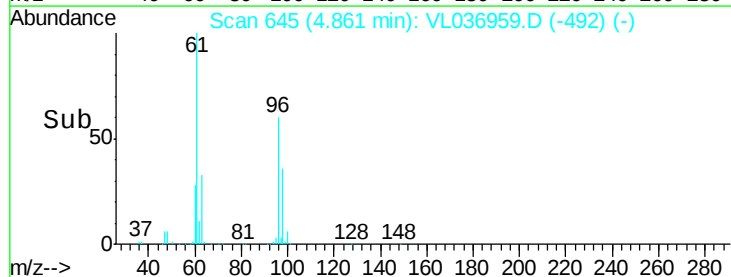
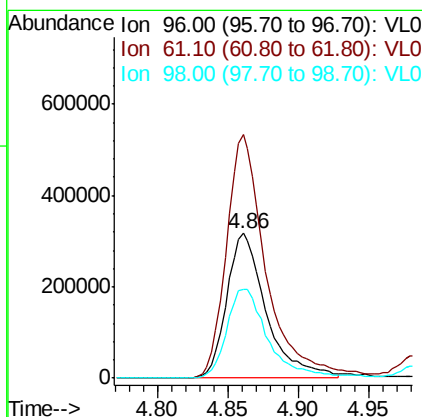
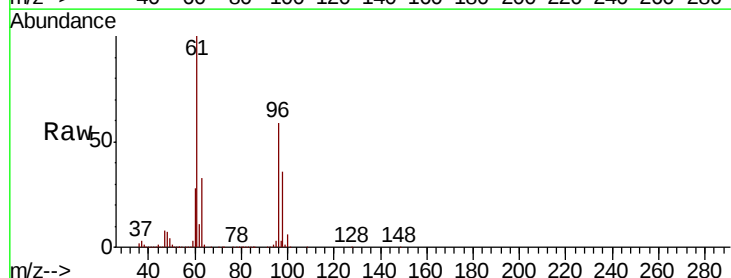
RT: 4.86 min Scan# 645

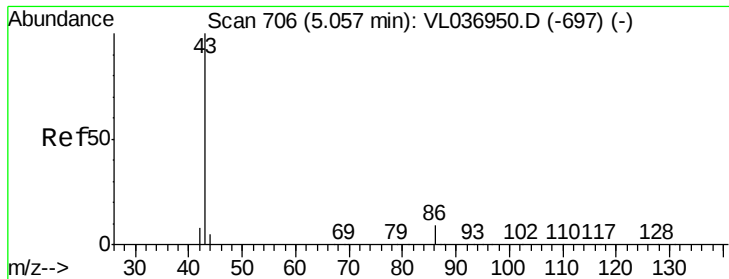
Delta R.T. -0.01 min

Lab File: VL036959.D

Acq: 18 May 2021 8:56

Tgt Ion:	96	Resp:	623207
Ion Ratio	Lower	Upper	
96	100		
61	167.8	130.6	196.0
98	61.1	50.8	76.2





#23

Vinyl Acetate

Concen: 9.701 ppbv

RT: 5.05 min Scan# 704

Delta R.T. -0.01 min

Lab File: VL036959.D

Acq: 18 May 2021 8:56

Instrument :

MSVOA_L

ClientSampleId :

VL0518ABS01

Tot Ion: 43 Resp: 2048833

Ion Ratio Lower Upper

43 100

86 7.1 5.8 8.8

42 9.7 7.4 11.2

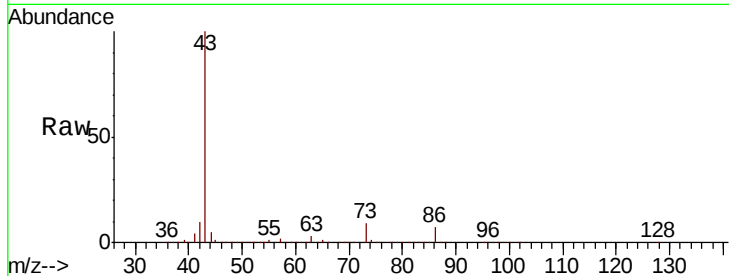
44 4.7 3.3 4.9

Manual Integrations

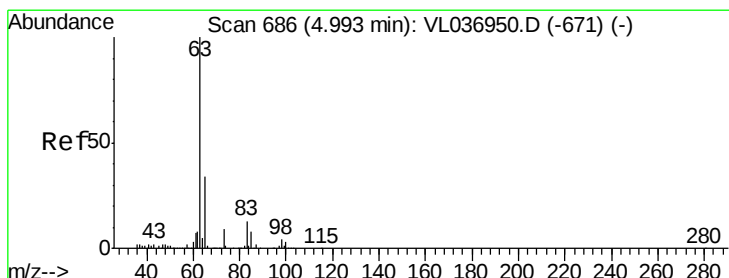
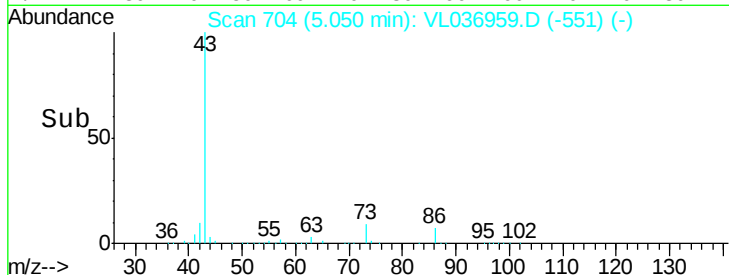
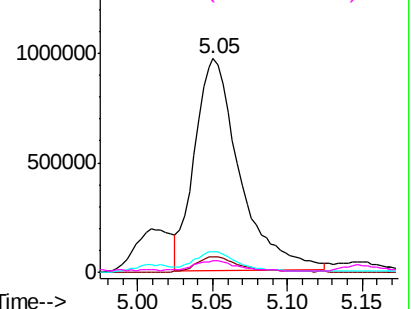
APPROVED

MMDadoda

5/20/2021 5:54:31 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0
1500000 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: 9.233 ppbv

RT: 4.99 min Scan# 684

Delta R.T. -0.01 min

Lab File: VL036959.D

Acq: 18 May 2021 8:56

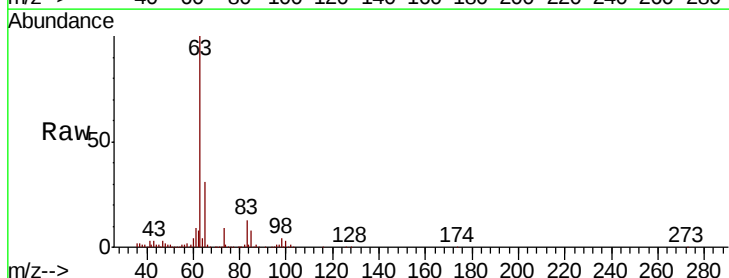
Tgt Ion: 63 Resp: 1403690

Ion Ratio Lower Upper

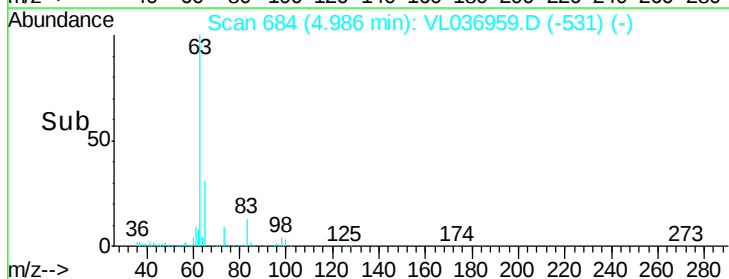
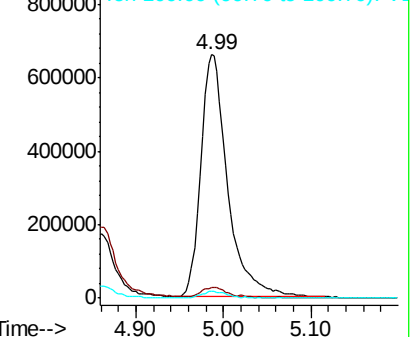
63 100

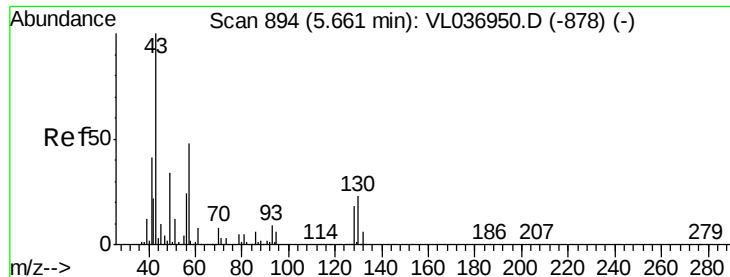
98 4.2 2.3 6.9

100 2.7 1.4 4.0



Abundance Ion 63.10 (62.80 to 63.80): VL0
800000 Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0





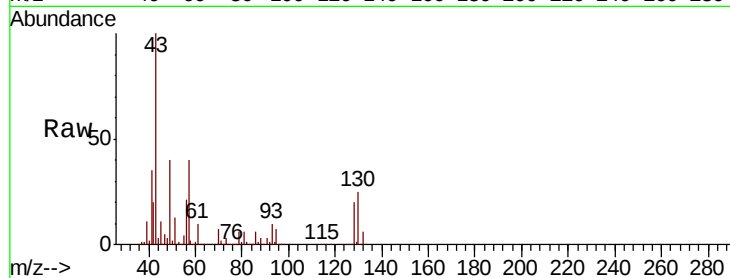
#25
Ethyl Acetate
Concen: 9.107 ppbv
RT: 5.65 min Scan# 891
Delta R.T. -0.01 min
Lab File: VL036959.D
Acq: 18 May 2021 8:56

Instrument :
MSVOA_L
ClientSampleId :
VL0518ABS01

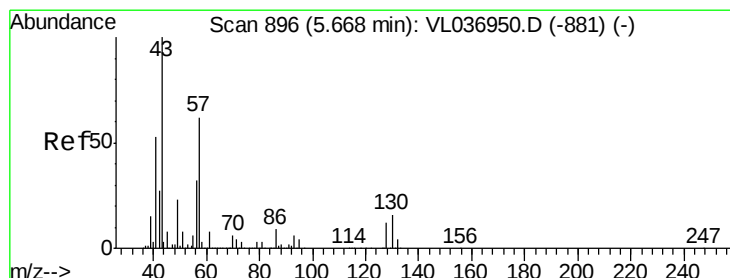
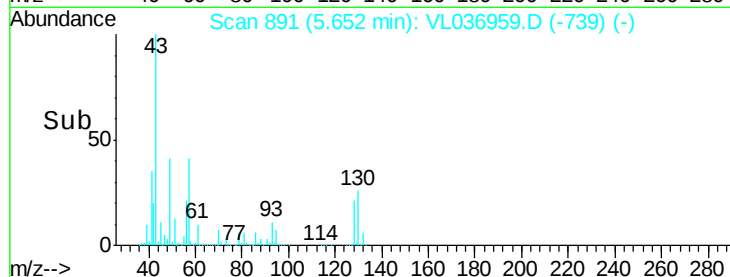
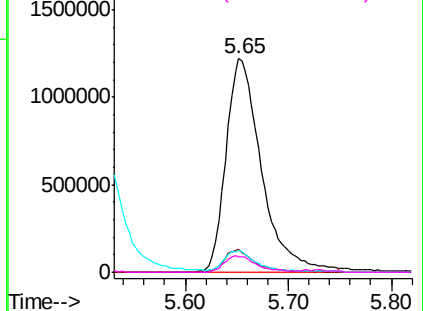
Tot Ion	43	Resp	2911951
Ion	Ratio	Lower	Upper
43	100		
45	9.6	7.8	11.8
61	9.6	7.8	11.8
70	7.0	5.6	8.4

Manual Integrations
APPROVED

MMDadoda
5/20/2021 5:54:31 PM

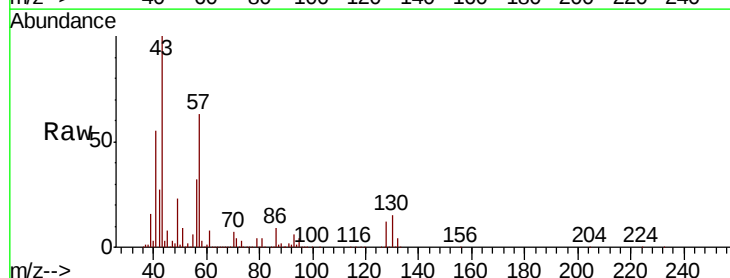


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

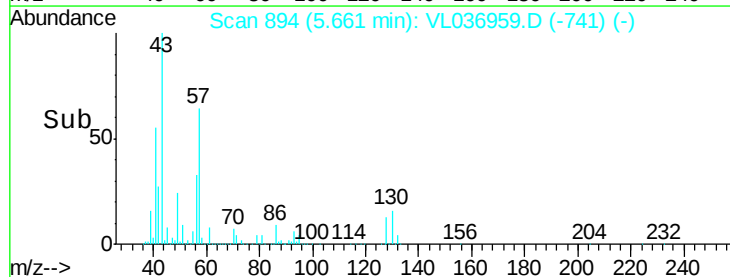
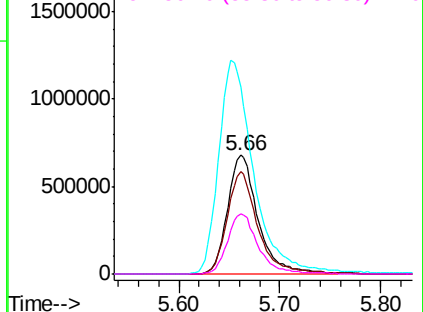


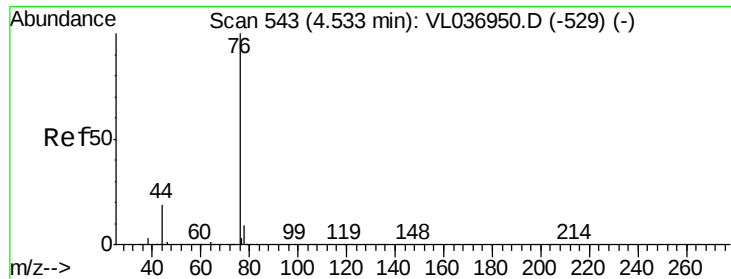
#26
Hexane
Concen: 8.779 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.01 min
Lab File: VL036959.D
Acq: 18 May 2021 8:56

Tgt Ion	57	Resp	1434044
Ion	Ratio	Lower	Upper
57	100		
41	87.1	70.5	105.7
43	207.1	165.8	248.8
56	51.7	42.2	63.4



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





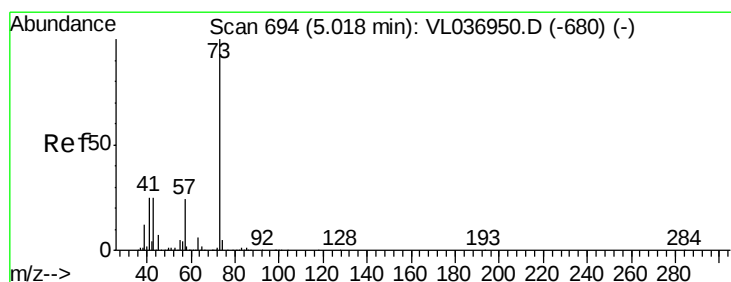
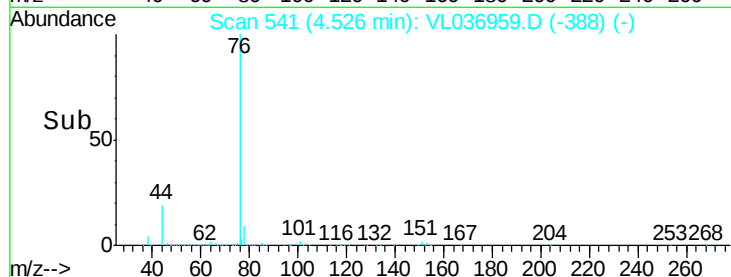
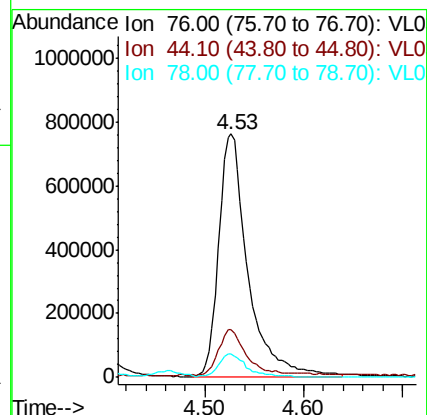
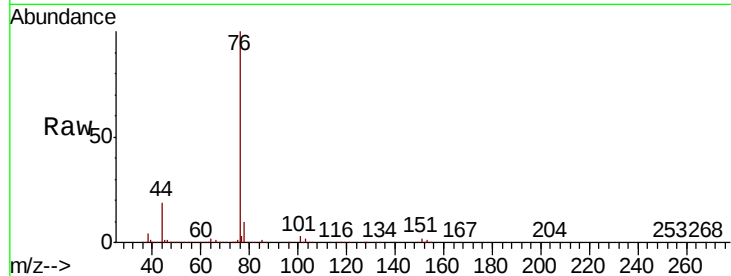
#27
Carbon Disulfide
Concen: 9.598 ppbv
RT: 4.53 min Scan# 541
Delta R.T. -0.01 min
Lab File: VL036959.D
Acq: 18 May 2021 8:56

Instrument :
MSVOA_L
ClientSampleId :
VL0518ABS01

Tot Ion: 76 Resp: 1580087
Ion Ratio Lower Upper
76 100
44 19.7 15.5 23.3
78 9.6 7.8 11.6

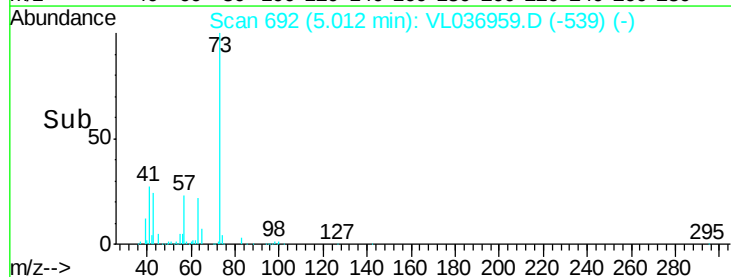
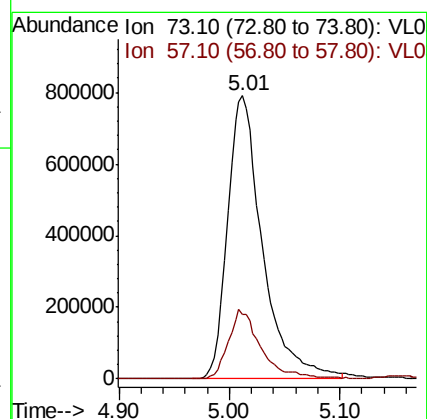
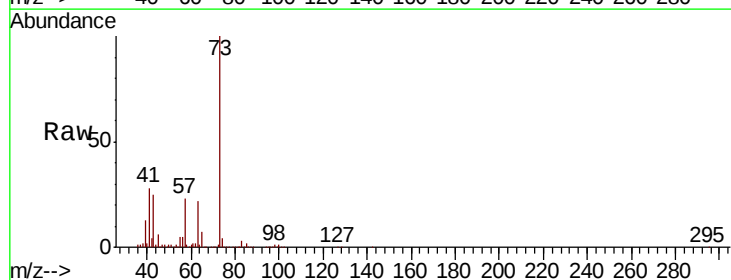
Manual Integrations
APPROVED

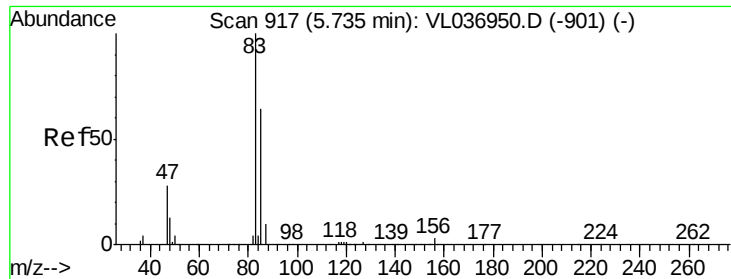
MMDadoda
5/20/2021 5:54:31 PM



#28
Methyl tert-Butyl Ether
Concen: 8.865 ppbv
RT: 5.01 min Scan# 692
Delta R.T. -0.01 min
Lab File: VL036959.D
Acq: 18 May 2021 8:56

Tgt Ion: 73 Resp: 1735718
Ion Ratio Lower Upper
73 100
57 23.1 18.3 27.5





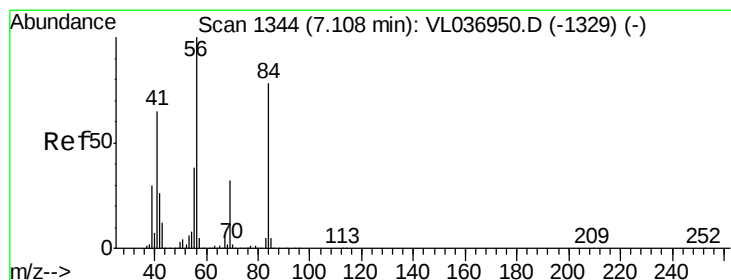
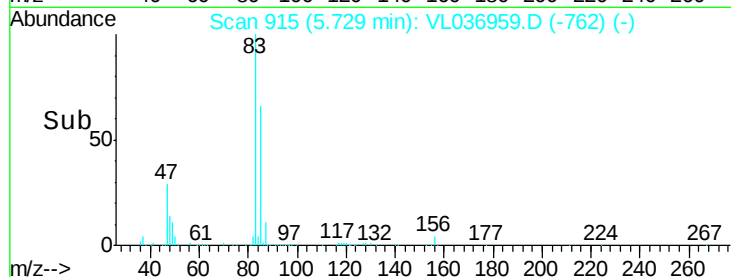
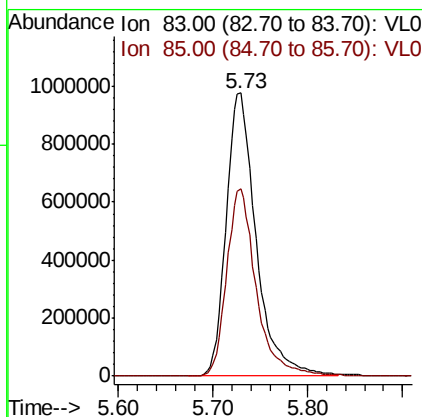
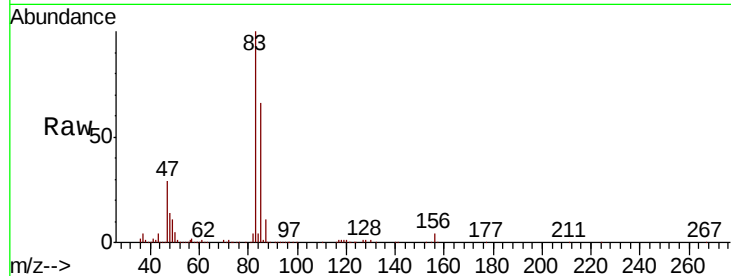
#29
Chloroform
Concen: 9.326 ppbv
RT: 5.73 min Scan# 915
Delta R.T. -0.01 min
Lab File: VL036959.D
Acq: 18 May 2021 8:56

Instrument :
MSVOA_L
ClientSampleId :
VL0518ABS01

Tot Ion: 83 Resp: 2152330
Ion Ratio Lower Upper
83 100
85 65.8 51.1 76.7

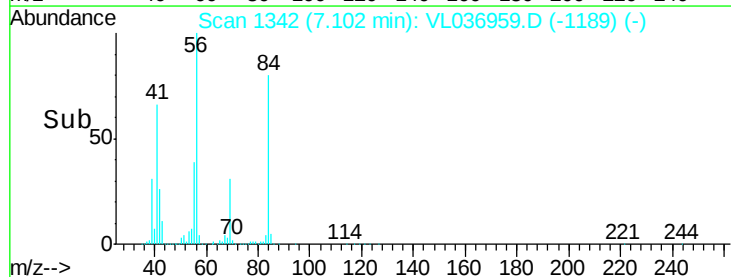
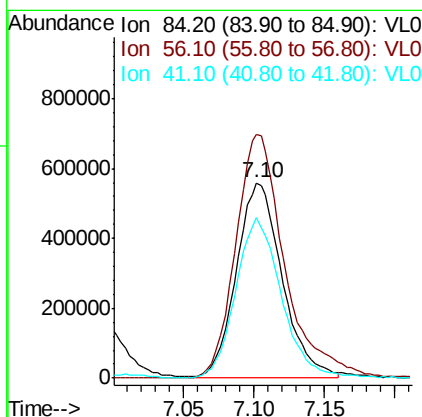
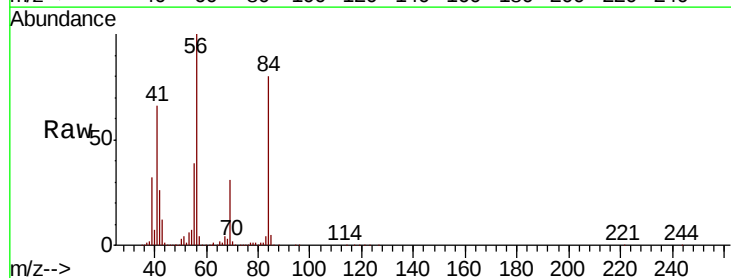
Manual Integrations
APPROVED

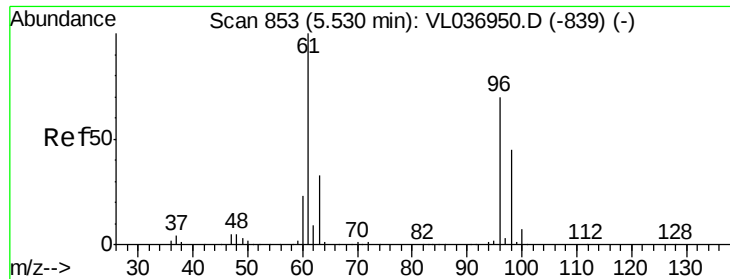
MMDadoda
5/20/2021 5:54:31 PM



#30
Cyclohexane
Concen: 9.083 ppbv
RT: 7.10 min Scan# 1342
Delta R.T. -0.01 min
Lab File: VL036959.D
Acq: 18 May 2021 8:56

Tgt Ion: 84 Resp: 1260800
Ion Ratio Lower Upper
84 100
56 135.7 107.9 161.9
41 82.9 65.5 98.3





#31

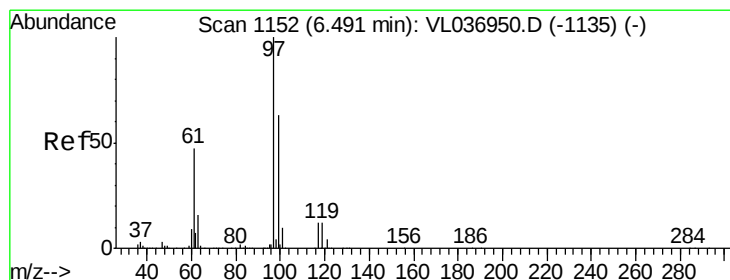
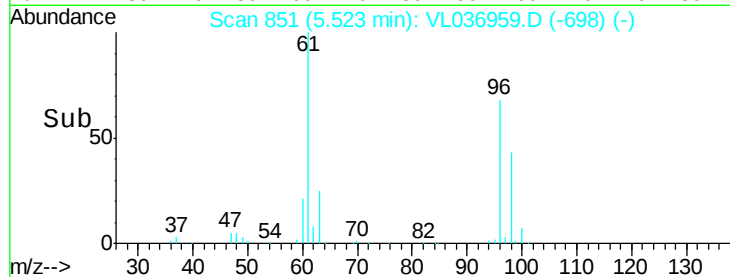
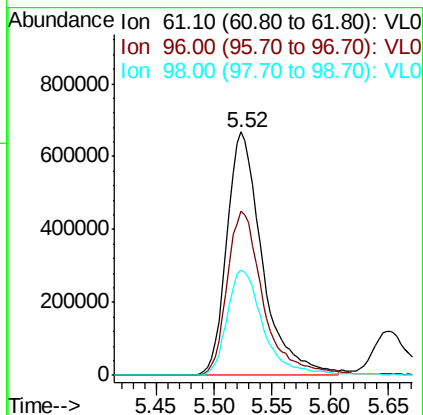
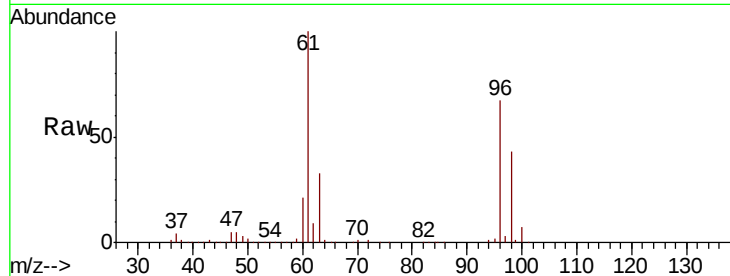
cis-1,2-Dichloroethene
Concen: 9.622 ppbv
RT: 5.52 min Scan# 851
Delta R.T. -0.01 min
Lab File: VL036959.D
Acq: 18 May 2021 8:56

Instrument :
MSVOA_L
ClientSampleId :
VL0518ABS01

Tot Ion	Ratio	Lower	Upper
61	100		
96	67.3	55.9	83.9
98	43.2	35.6	53.4

Manual Integrations
APPROVED

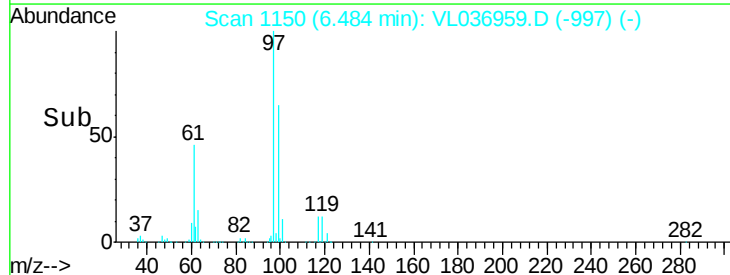
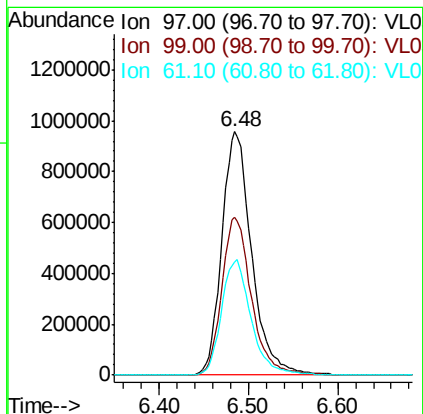
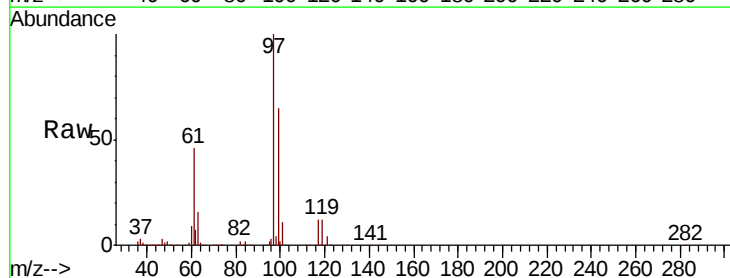
MMDadoda
5/20/2021 5:54:31 PM

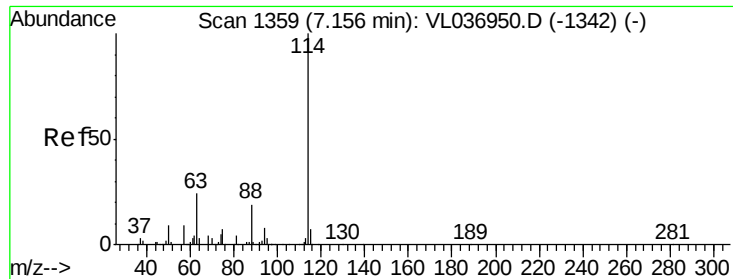


#32

1,1,1-Trichloroethane
Concen: 8.949 ppbv
RT: 6.48 min Scan# 1150
Delta R.T. -0.01 min
Lab File: VL036959.D
Acq: 18 May 2021 8:56

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.6	51.9	77.9
61	47.0	37.6	56.4





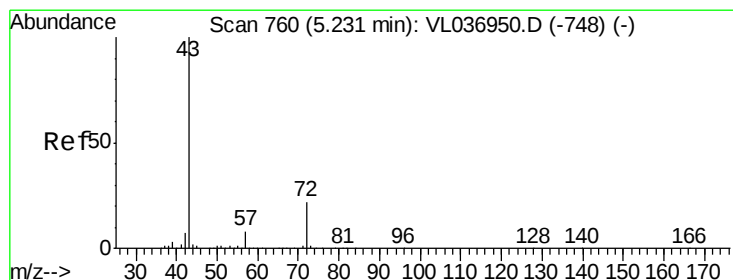
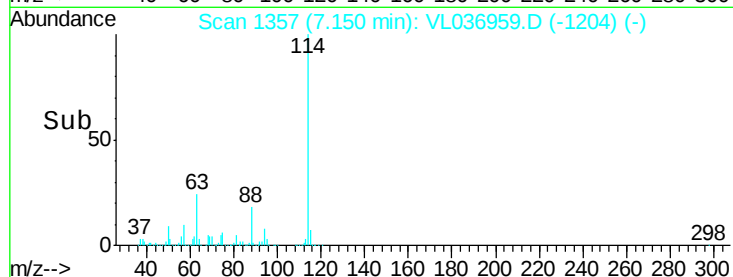
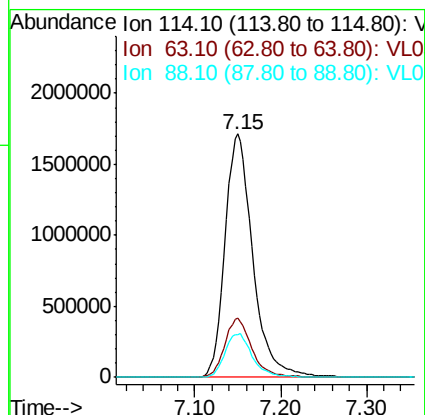
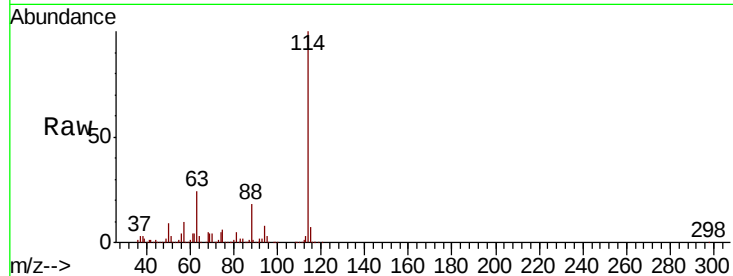
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1357
 Delta R.T. -0.01 min
 Lab File: VL036959.D
 Acq: 18 May 2021 8:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0518ABS01

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.1	19.6	29.4
88	17.9	14.6	21.8

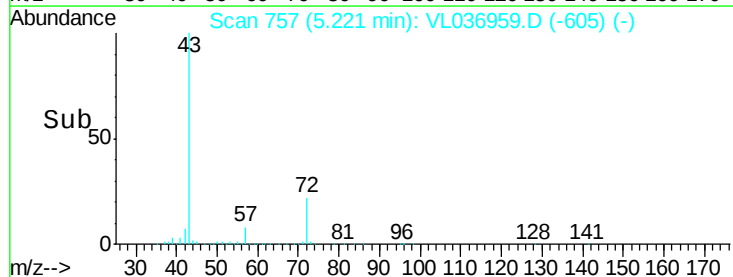
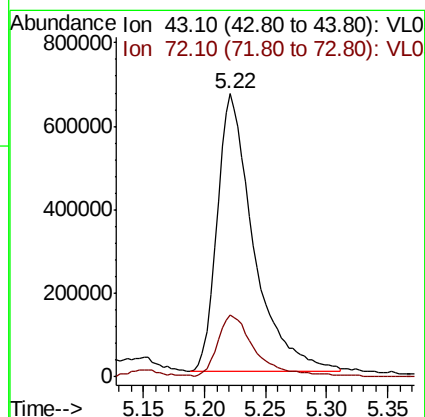
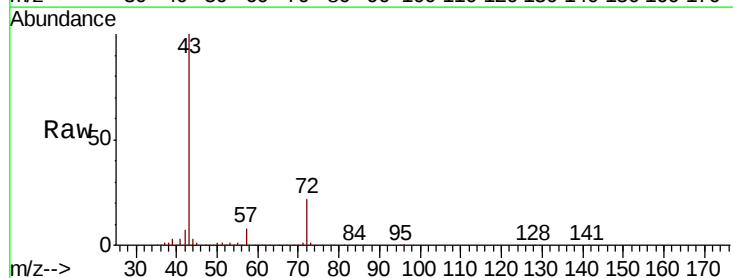
Manual Integrations
 APPROVED

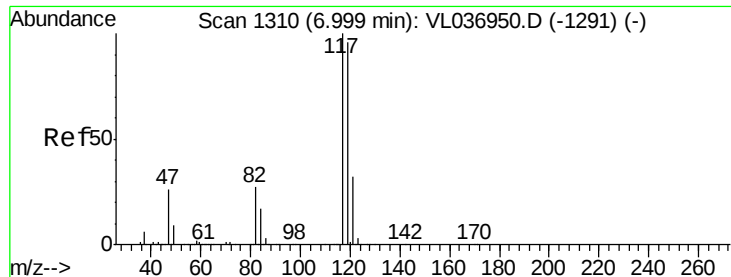
MMDadoda
 5/20/2021 5:54:31 PM



#34
 2-Butanone
 Concen: 9.892 ppbv
 RT: 5.22 min Scan# 757
 Delta R.T. -0.01 min
 Lab File: VL036959.D
 Acq: 18 May 2021 8:56

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.3	19.0	28.4





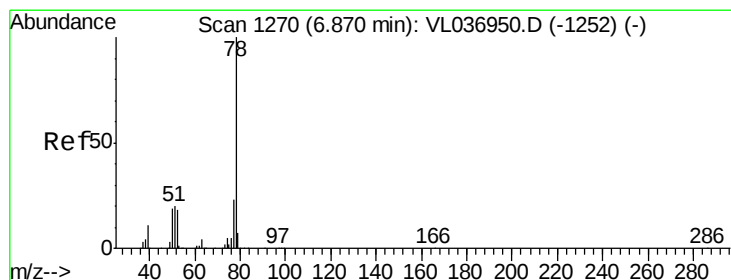
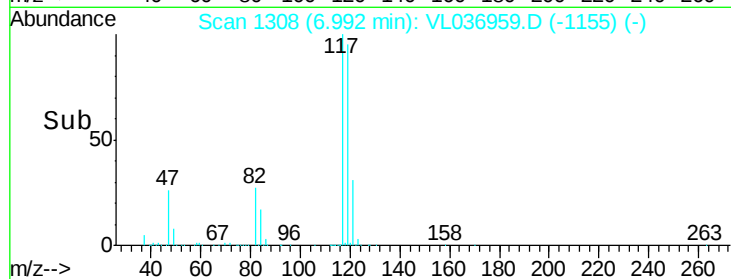
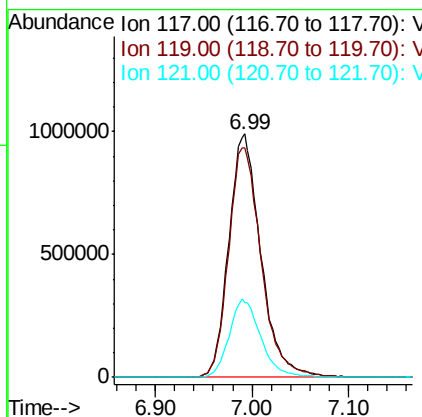
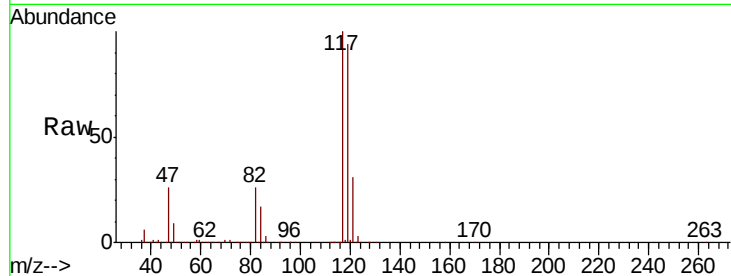
#35
Carbon Tetrachloride
Concen: 8.892 ppbv
RT: 6.99 min Scan# 1308
Delta R.T. -0.01 min
Lab File: VL036959.D
Acq: 18 May 2021 8:56

Instrument :
MSVOA_L
ClientSampleId :
VL0518ABS01

Tot Ion	Ratio	Lower	Upper
117	100		
119	94.5	76.6	114.8
121	30.8	25.8	38.6

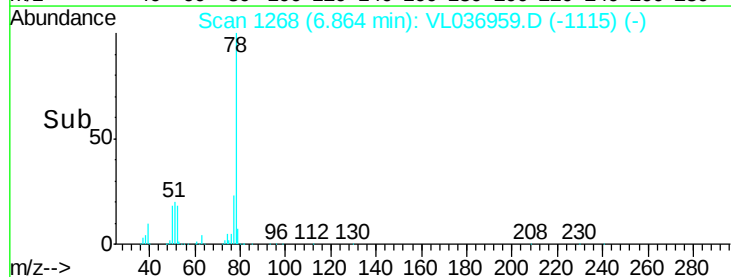
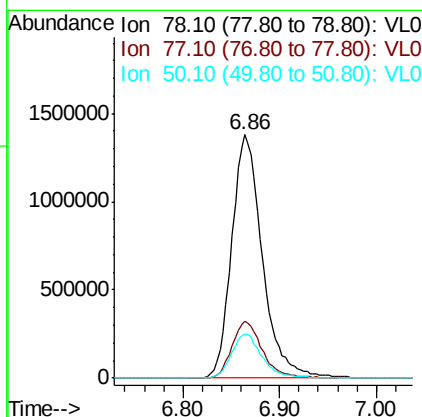
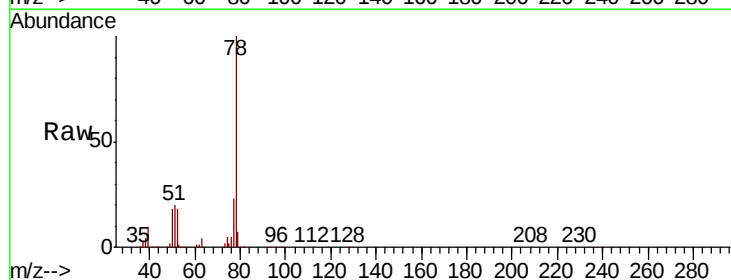
Manual Integrations
APPROVED

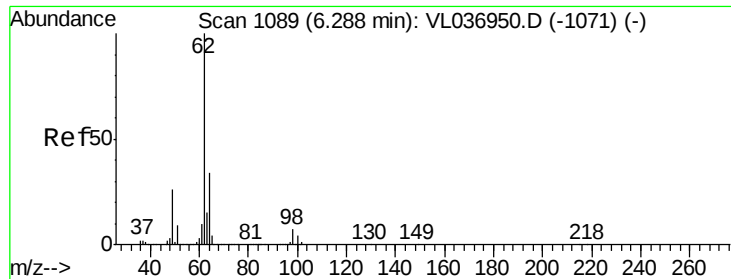
MMDadoda
5/20/2021 5:54:31 PM



#36
Benzene
Concen: 9.157 ppbv
RT: 6.86 min Scan# 1268
Delta R.T. -0.01 min
Lab File: VL036959.D
Acq: 18 May 2021 8:56

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.0	18.6	28.0
50	18.3	15.0	22.4





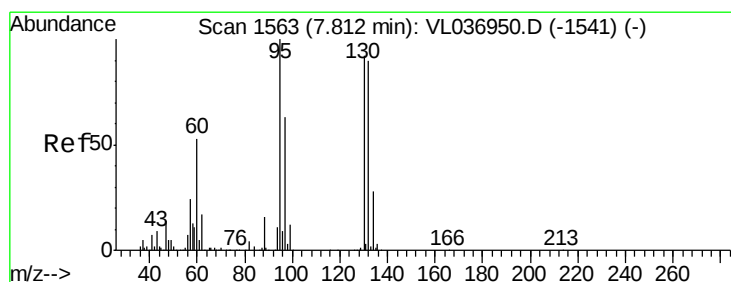
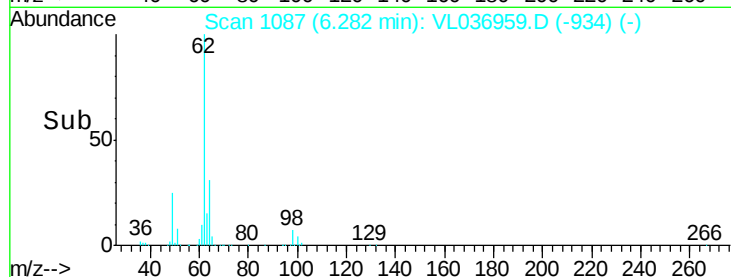
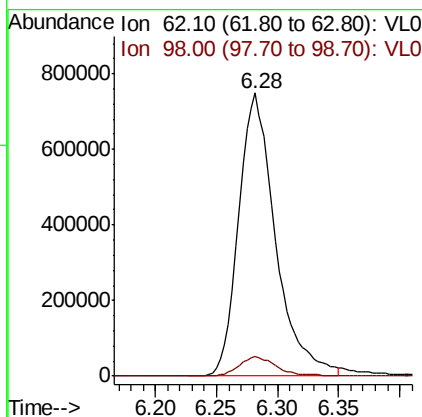
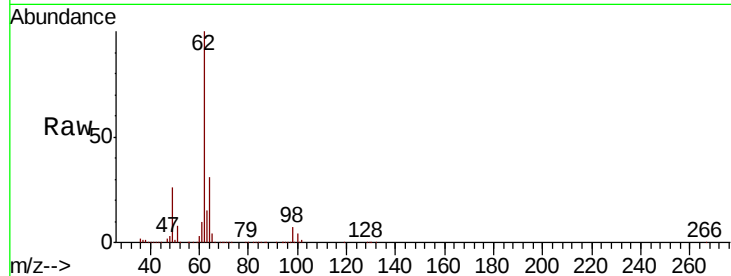
#37
 1,2-Dichloroethane
 Concen: 9.494 ppbv
 RT: 6.28 min Scan# 1087
 Delta R.T. -0.01 min
 Lab File: VL036959.D
 Acq: 18 May 2021 8:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0518ABS01

Tot Ion: 62 Resp: 1563612
 Ion Ratio Lower Upper
 62 100
 98 7.3 5.5 8.3

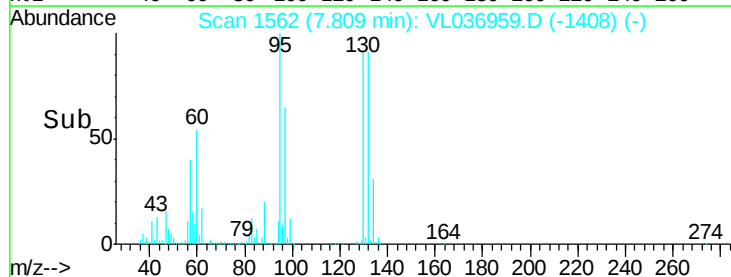
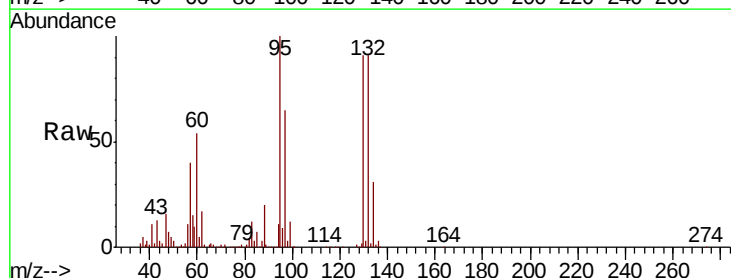
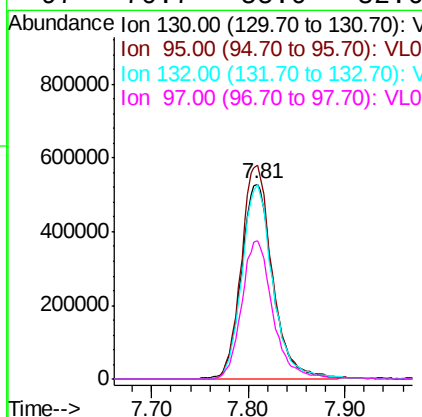
Manual Integrations
 APPROVED

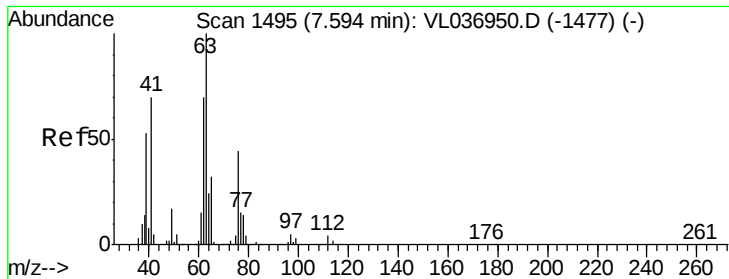
MMDadoda
 5/20/2021 5:54:31 PM



#38
 Trichloroethene
 Concen: 8.447 ppbv
 RT: 7.81 min Scan# 1562
 Delta R.T. -0.00 min
 Lab File: VL036959.D
 Acq: 18 May 2021 8:56

Tgt Ion: 130 Resp: 1200447
 Ion Ratio Lower Upper
 130 100
 95 109.6 86.9 130.3
 132 99.6 78.4 117.6
 97 70.7 55.0 82.6





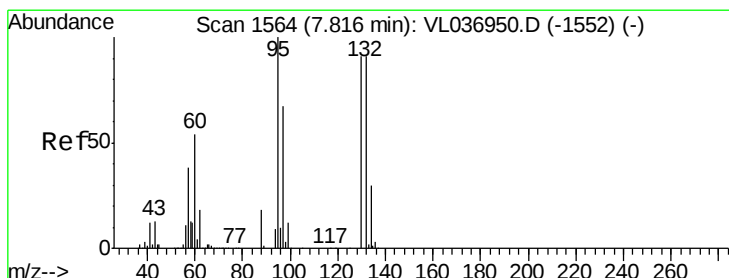
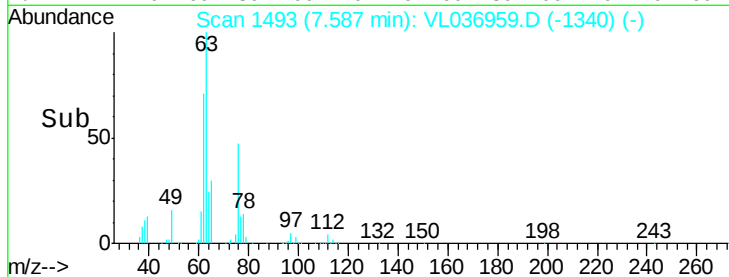
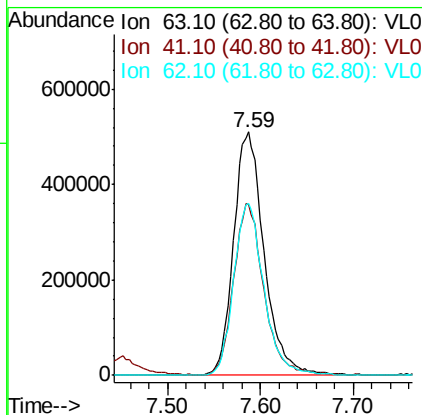
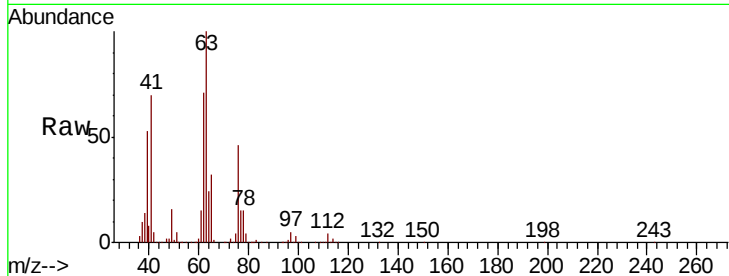
#39
 1,2-Dichloropropane
 Concen: 9.095 ppbv
 RT: 7.59 min Scan# 1493
 Delta R.T. -0.01 min
 Lab File: VL036959.D
 Acq: 18 May 2021 8:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0518ABS01

Tot Ion	Ratio	Lower	Upper
63	100		
41	70.0	55.7	83.5
62	70.5	56.2	84.4

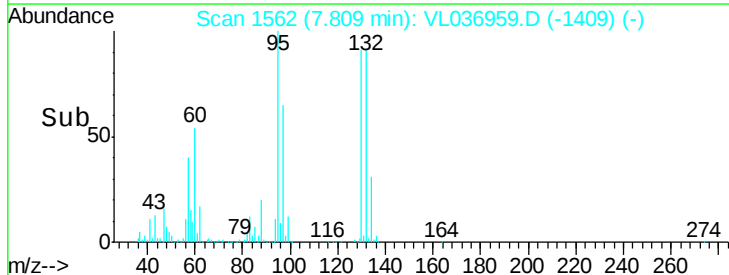
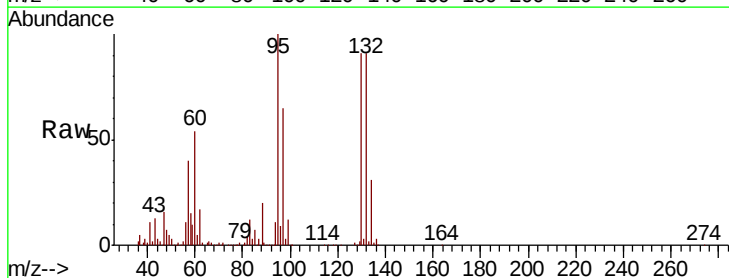
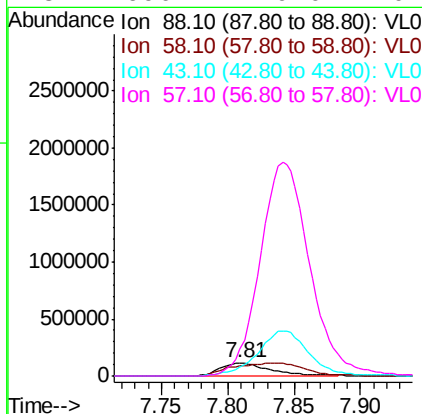
Manual Integrations
 APPROVED

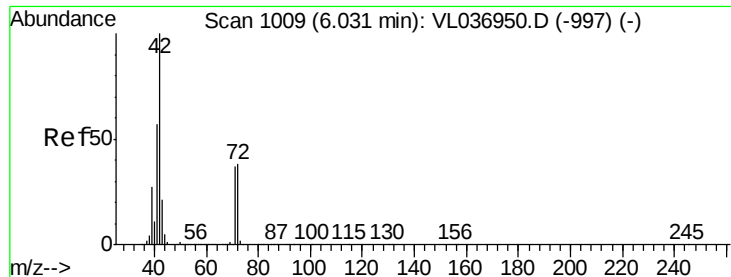
MMDadoda
 5/20/2021 5:54:31 PM



#40
 1,4-Dioxane
 Concen: 9.679 ppbv
 RT: 7.81 min Scan# 1562
 Delta R.T. -0.01 min
 Lab File: VL036959.D
 Acq: 18 May 2021 8:56

Tgt Ion	Ratio	Lower	Upper
88	100		
58	152.7	0.0	0.0#
43	370.8	0.0	0.0#
57	1690.7	0.0	0.0#





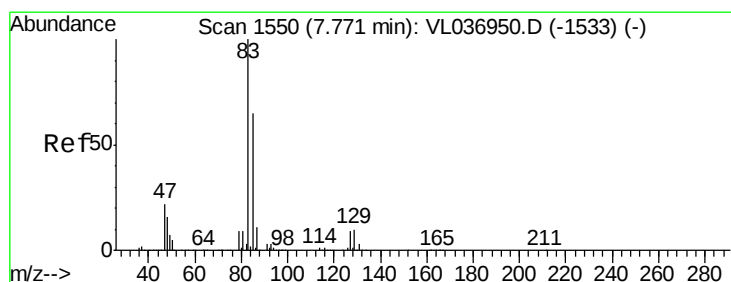
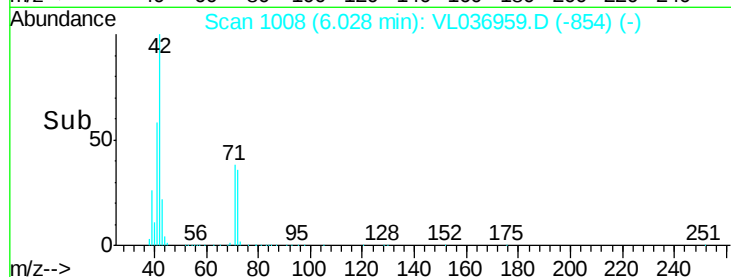
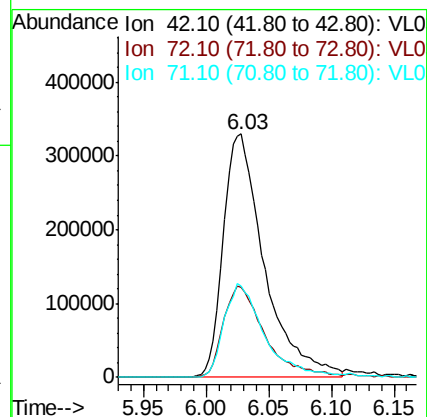
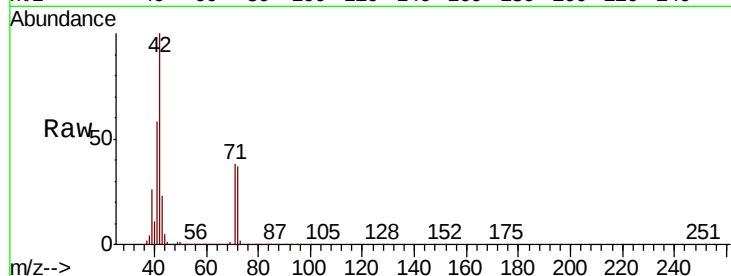
#41
Tetrahydrofuran
Concen: 9.365 ppbv
RT: 6.03 min Scan# 1008
Delta R.T. -0.00 min
Lab File: VL036959.D
Acq: 18 May 2021 8:56

Instrument :
MSVOA_L
ClientSampleId :
VL0518ABS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.9	31.4	47.2
71	39.0	30.4	45.6

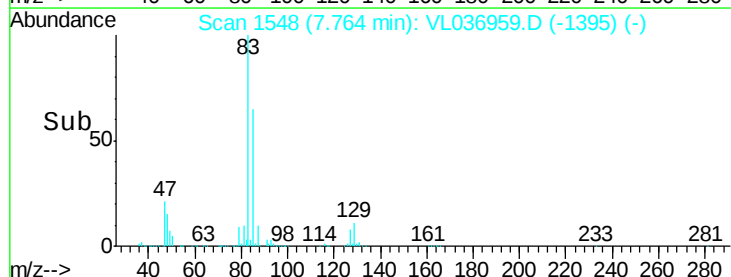
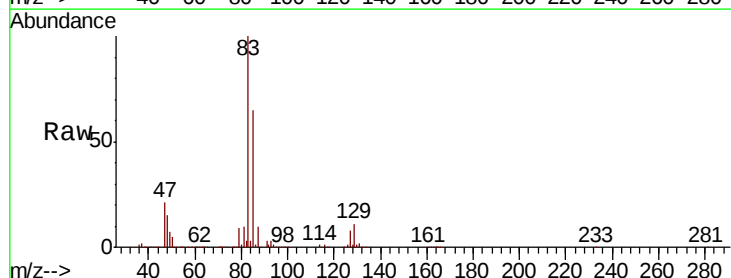
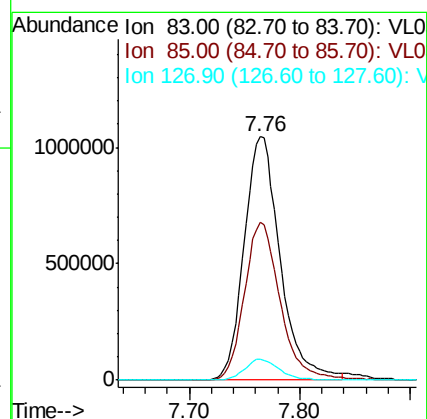
Manual Integrations
APPROVED

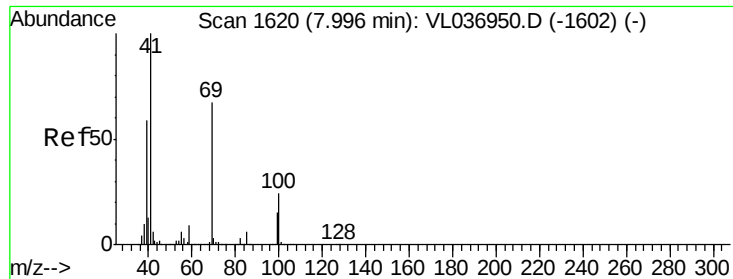
MMDadoda
5/20/2021 5:54:31 PM



#42
Bromodichloromethane
Concen: 9.526 ppbv
RT: 7.76 min Scan# 1548
Delta R.T. -0.01 min
Lab File: VL036959.D
Acq: 18 May 2021 8:56

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.1	51.7	77.5
127	8.5	6.9	10.3





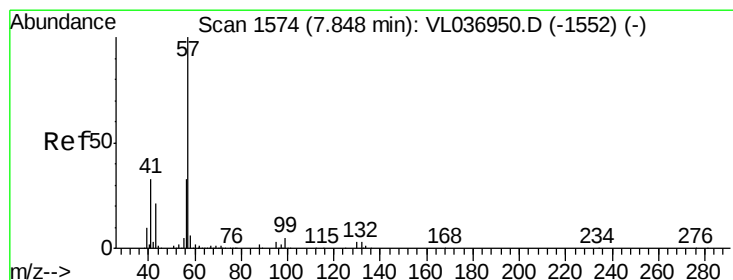
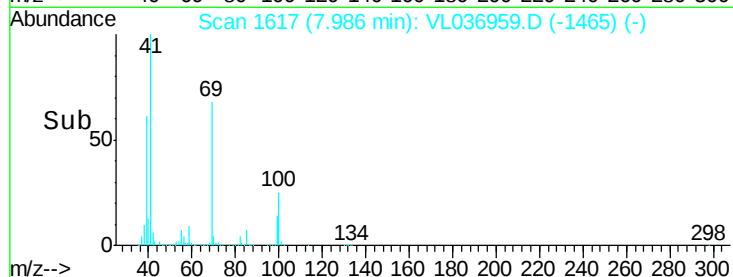
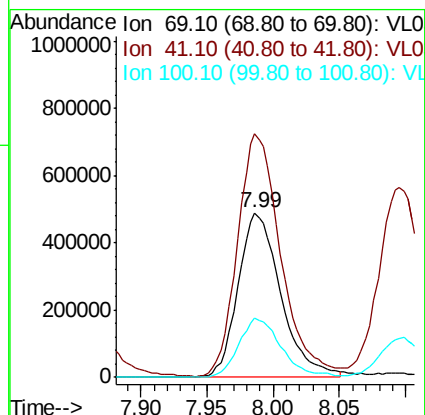
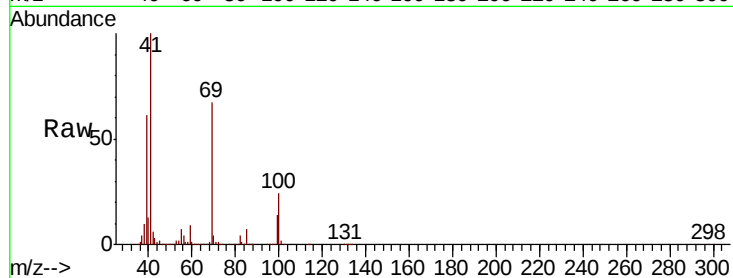
#43
Methvl Methacrilate
Concen: 9.550 ppbv
RT: 7.99 min Scan# 1617
Delta R.T. -0.01 min
Lab File: VL036959.D
Acq: 18 May 2021 8:56

Instrument :
MSVOA_L
ClientSampleId :
VL0518ABS01

Tot Ion: 69 Resp: 1093490
Ion Ratio Lower Upper
69 100
41 149.7 118.6 178.0
100 36.2 28.2 42.4

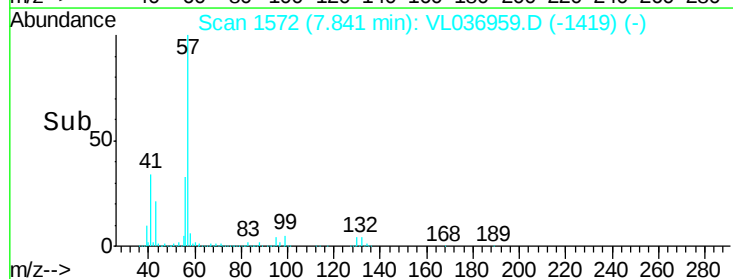
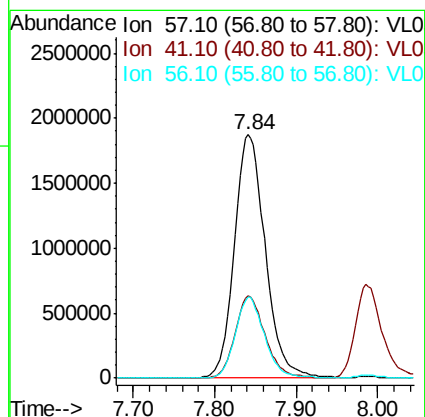
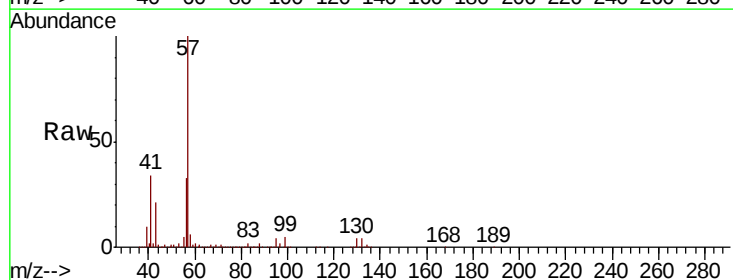
Manual Integrations
APPROVED

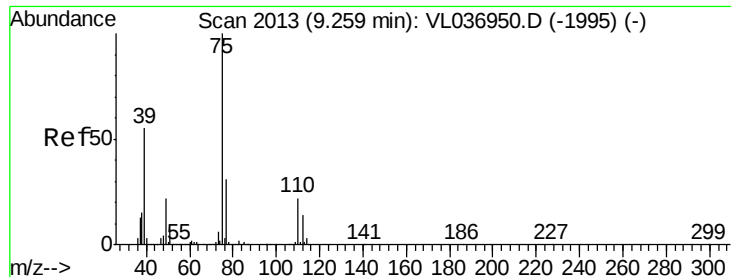
MMDadoda
5/20/2021 5:54:31 PM



#44
2,2,4-Trimethylpentane
Concen: 8.675 ppbv
RT: 7.84 min Scan# 1572
Delta R.T. -0.01 min
Lab File: VL036959.D
Acq: 18 May 2021 8:56

Tgt Ion: 57 Resp: 4944260
Ion Ratio Lower Upper
57 100
41 32.8 27.0 40.4
56 31.7 25.4 38.2





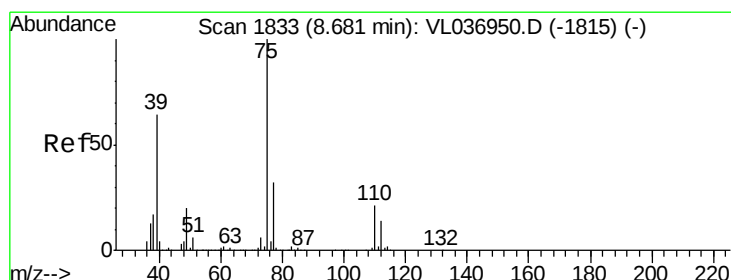
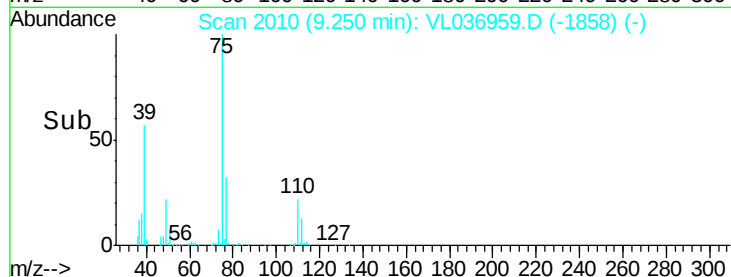
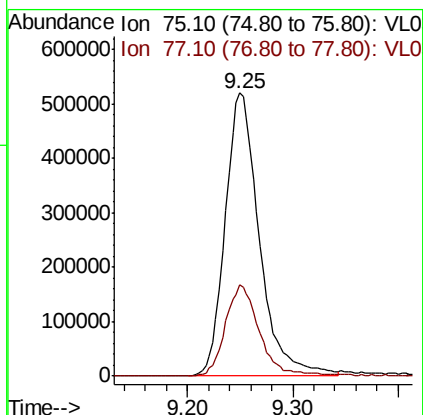
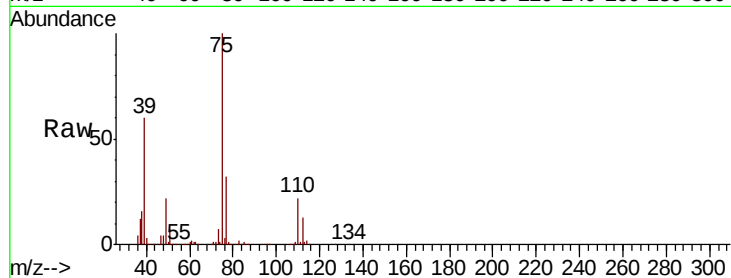
#45
t-1,3-Dichloropropene
Concen: 13.260 ppbv
RT: 9.25 min Scan# 2010
Delta R.T. -0.01 min
Lab File: VL036959.D
Acq: 18 May 2021 8:56

Instrument :
MSVOA_L
ClientSampleId :
VL0518ABS01

Tot Ion: 75 Resp: 1159946
Ion Ratio Lower Upper
75 100
77 32.1 24.4 36.6

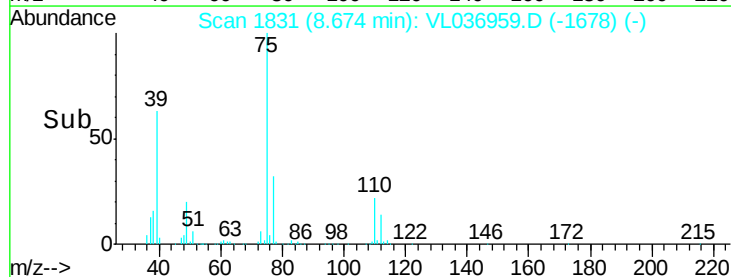
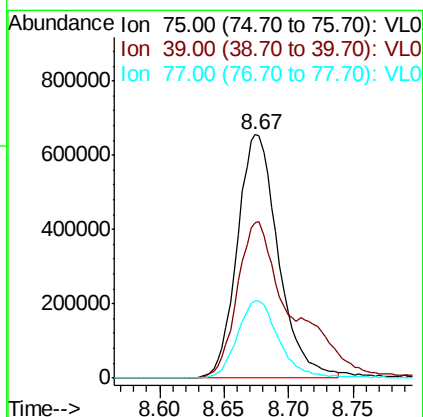
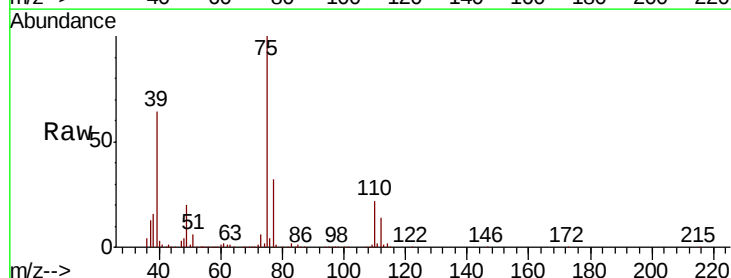
Manual Integrations
APPROVED

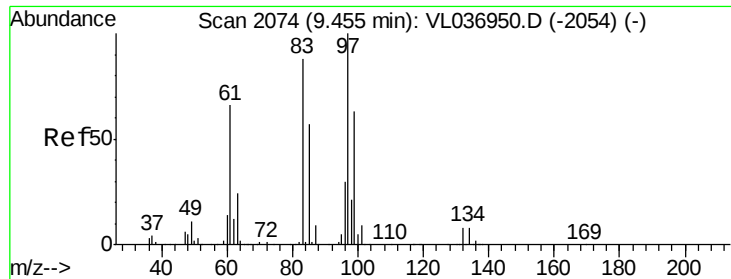
MMDadoda
5/20/2021 5:54:31 PM



#46
cis-1,3-Dichloropropene
Concen: 12.324 ppbv
RT: 8.67 min Scan# 1831
Delta R.T. -0.01 min
Lab File: VL036959.D
Acq: 18 May 2021 8:56

Tgt Ion: 75 Resp: 1450061
Ion Ratio Lower Upper
75 100
39 63.7 51.5 77.3
77 31.8 25.9 38.9





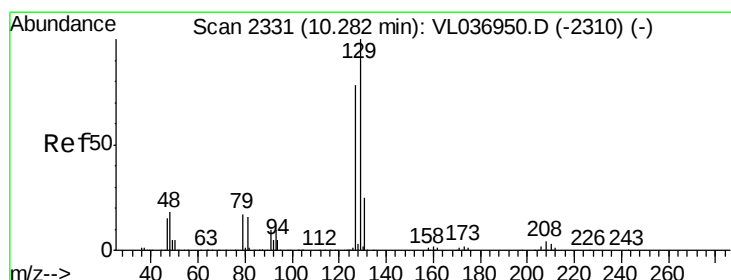
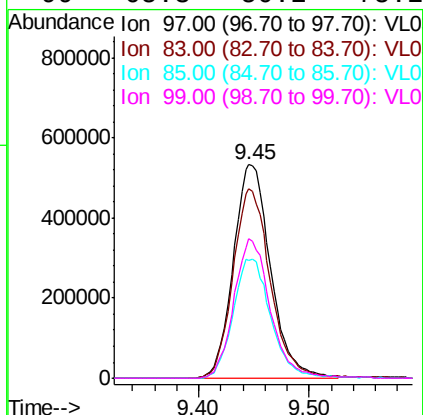
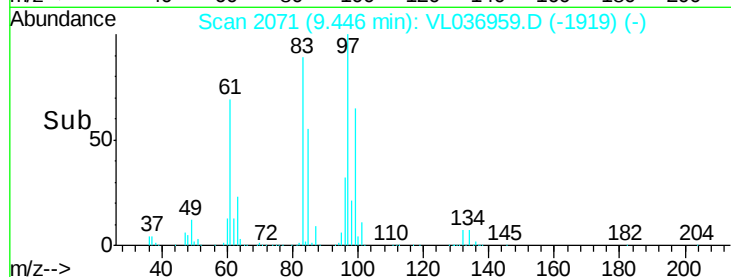
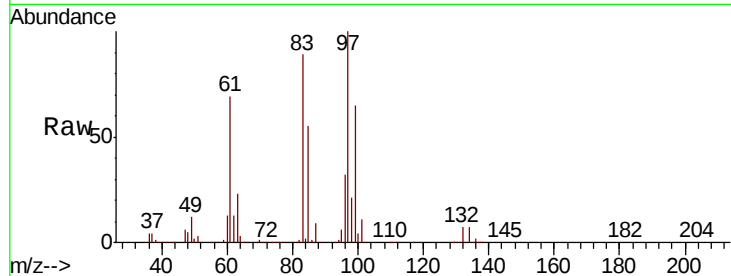
#47
 1,1,2-Trichloroethane
 Concen: 9.313 ppbv
 RT: 9.45 min Scan# 2071
 Delta R.T. -0.01 min
 Lab File: VL036959.D
 Acq: 18 May 2021 8:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0518ABS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	88.8	70.4	105.6
85	55.1	45.5	68.3
99	65.3	50.2	75.2

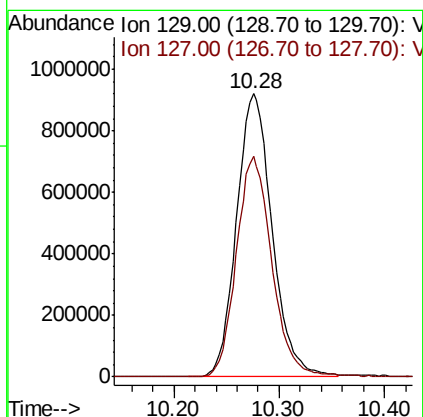
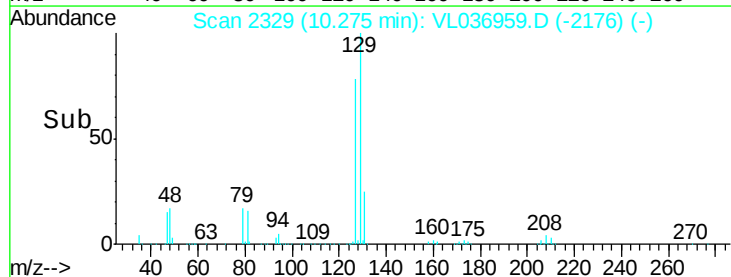
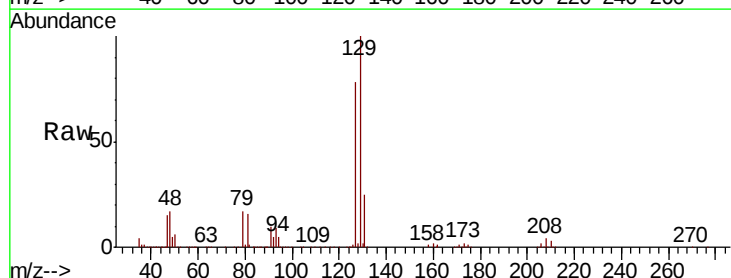
Manual Integrations
 APPROVED

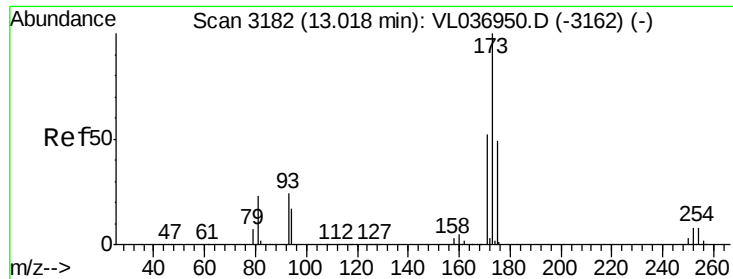
MMDadoda
 5/20/2021 5:54:31 PM



#48
 Dibromochloromethane
 Concen: 9.950 ppbv
 RT: 10.28 min Scan# 2329
 Delta R.T. -0.01 min
 Lab File: VL036959.D
 Acq: 18 May 2021 8:56

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.2	39.3	117.8





#49

Bromoform

Concen: 10.240 ppbv

RT: 13.01 min Scan# 3180

Delta R.T. -0.01 min

Lab File: VL036959.D

Acq: 18 May 2021 8:56

Instrument :

MSVOA_L

ClientSampleId :

VL0518ABS01

Tot Ion:173 Resp: 1834031

Ion Ratio Lower Upper

173 100

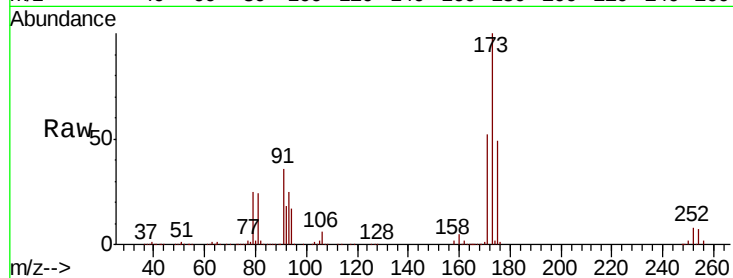
175 50.3 40.4 60.6

171 53.4 42.6 64.0

Manual Integrations
APPROVED

MMDadoda

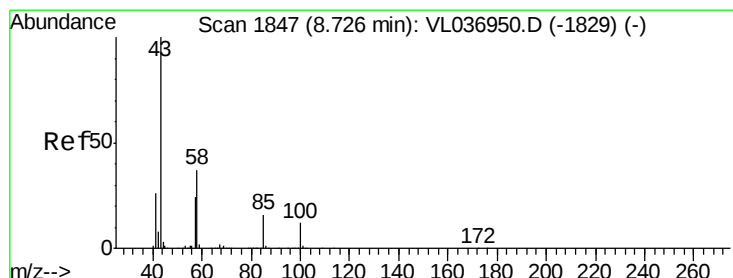
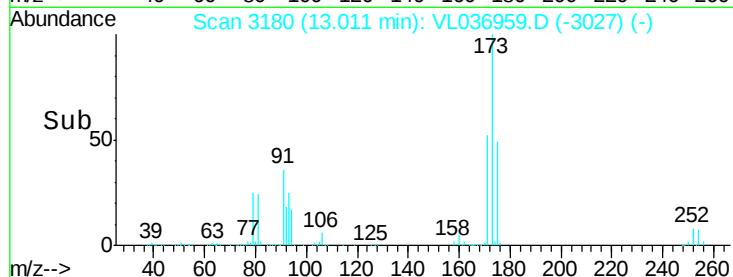
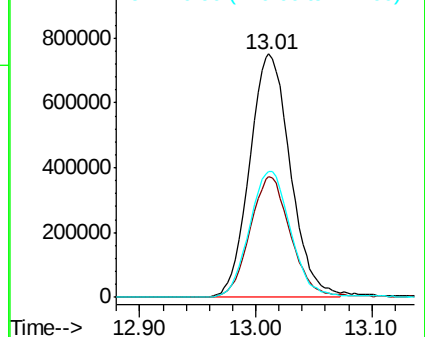
5/20/2021 5:54:31 PM



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: 9.262 ppbv

RT: 8.72 min Scan# 1844

Delta R.T. -0.01 min

Lab File: VL036959.D

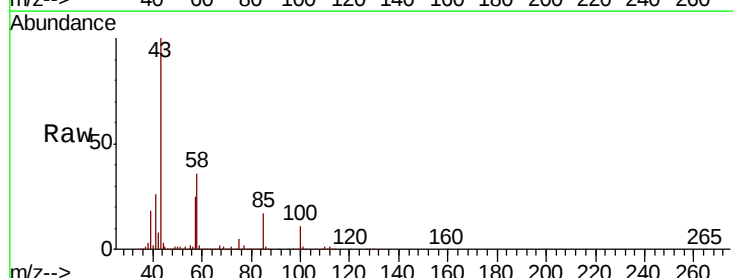
Acq: 18 May 2021 8:56

Tgt Ion: 43 Resp: 2146332

Ion Ratio Lower Upper

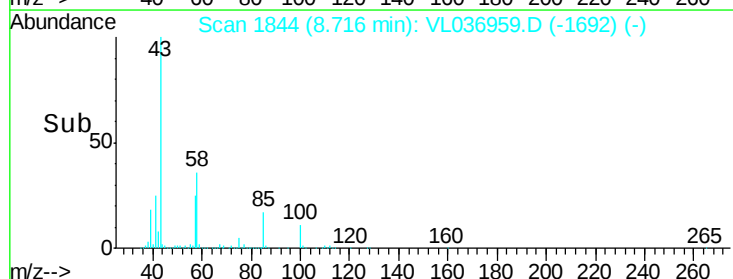
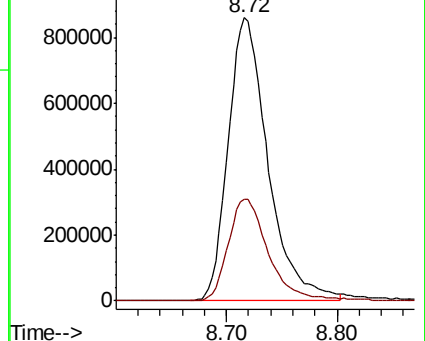
43 100

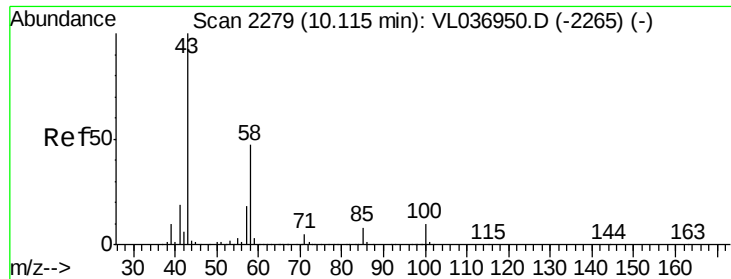
58 36.8 29.4 44.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





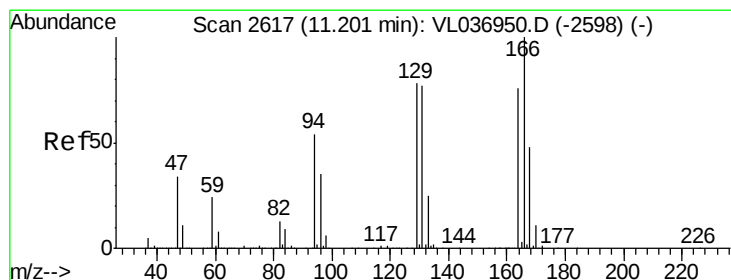
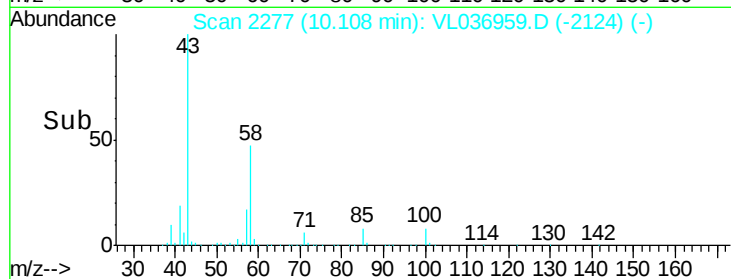
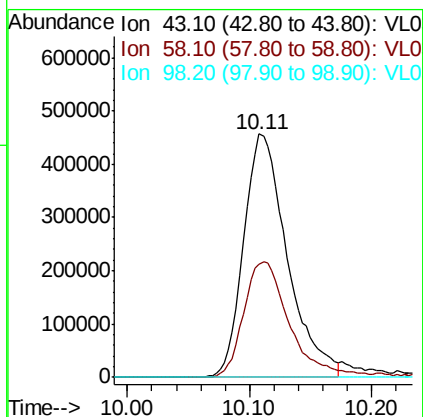
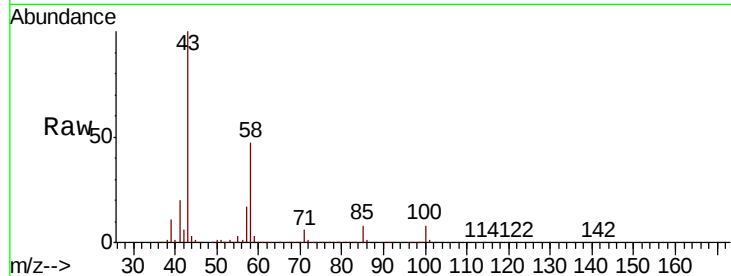
#51
2-Hexanone
Concen: 9.174 ppbv
RT: 10.11 min Scan# 2277
Delta R.T. -0.01 min
Lab File: VL036959.D
Acq: 18 May 2021 8:56

Instrument :
MSVOA_L
ClientSampleId :
VL0518ABS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	51.6	41.1	61.7
98	0.2	0.1	0.1#

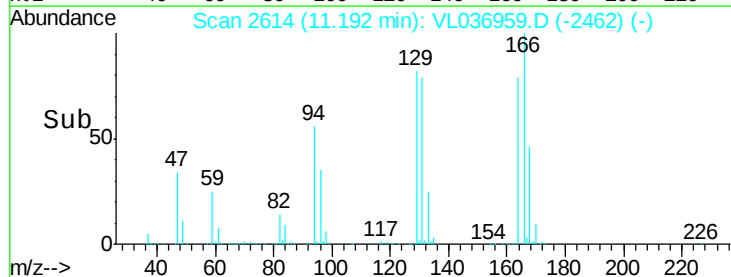
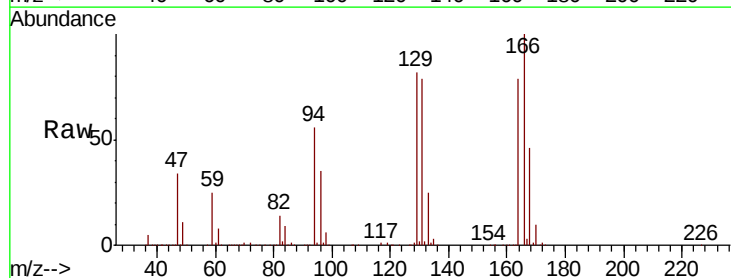
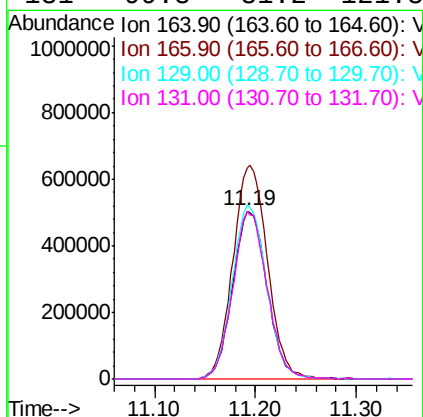
Manual Integrations
APPROVED

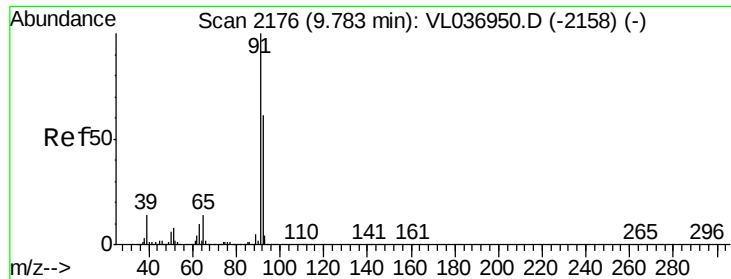
MMDadoda
5/20/2021 5:54:31 PM



#52
Tetrachloroethene
Concen: 9.050 ppbv
RT: 11.19 min Scan# 2614
Delta R.T. -0.01 min
Lab File: VL036959.D
Acq: 18 May 2021 8:56

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.0	105.5	158.3
129	103.7	81.8	122.8
131	99.8	81.2	121.8





#53

Toluene

Concen: 9.133 ppbv

RT: 9.78 min Scan# 2174

Delta R.T. -0.01 min

Lab File: VL036959.D

Acq: 18 May 2021 8:56

Instrument :

MSVOA_L

ClientSampleId :

VL0518ABS01

Tot Ion: 91 Resp: 3609957

Ion Ratio Lower Upper

91 100

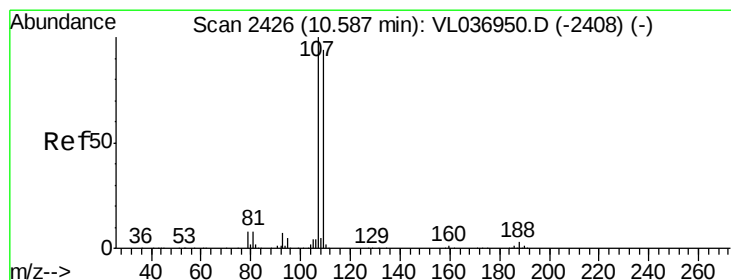
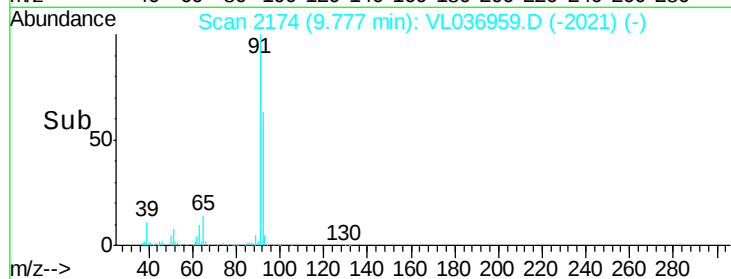
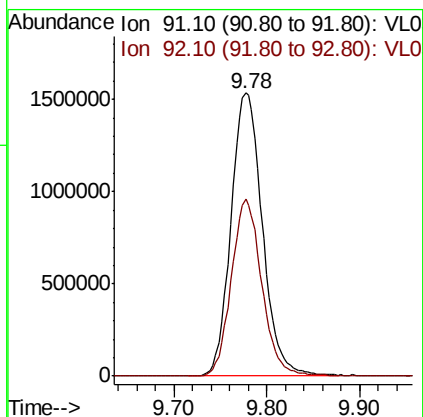
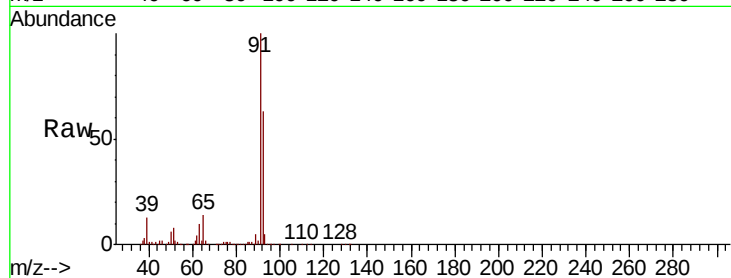
92 60.8 49.5 74.3

Manual Integrations

APPROVED

MMDadoda

5/20/2021 5:54:31 PM



#54

1,2-Dibromoethane

Concen: 9.633 ppbv

RT: 10.58 min Scan# 2425

Delta R.T. -0.00 min

Lab File: VL036959.D

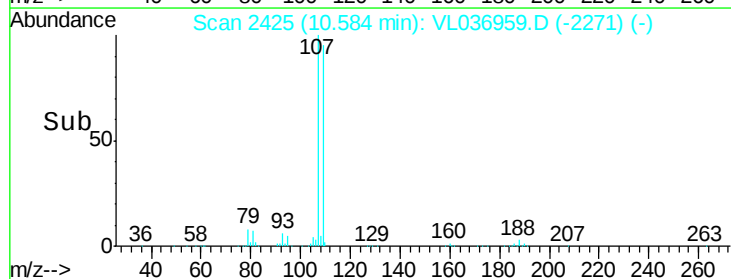
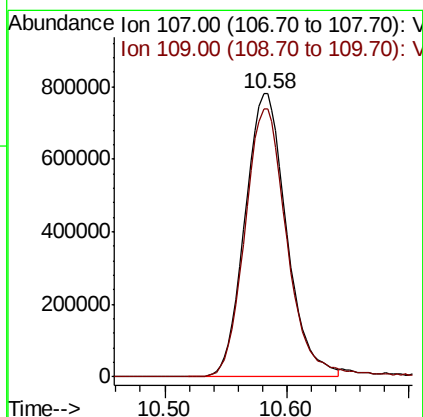
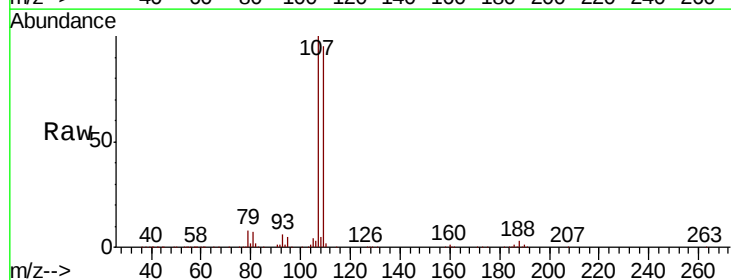
Acq: 18 May 2021 8:56

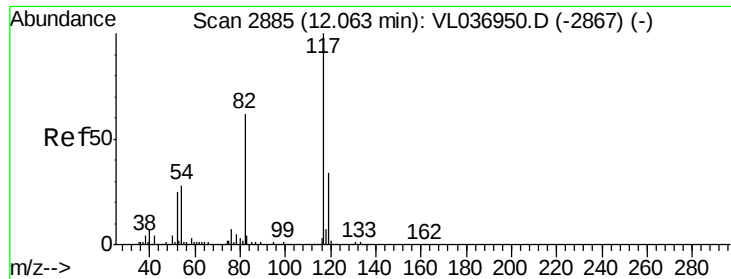
Tgt Ion: 107 Resp: 1834223

Ion Ratio Lower Upper

107 100

109 94.8 75.0 112.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv m

RT: 12.06 min Scan# 2883

Delta R.T. -0.01 min

Lab File: VL036959.D

Acq: 18 May 2021 8:56

Instrument :

MSVOA_L

ClientSampleId :

VL0518ABS01

Tot Ion:117 Resp: 3629099

Ion Ratio Lower Upper

117 100

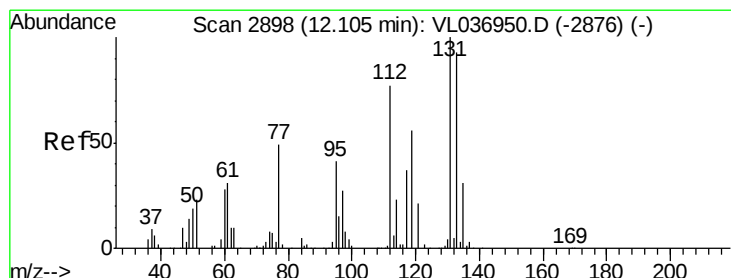
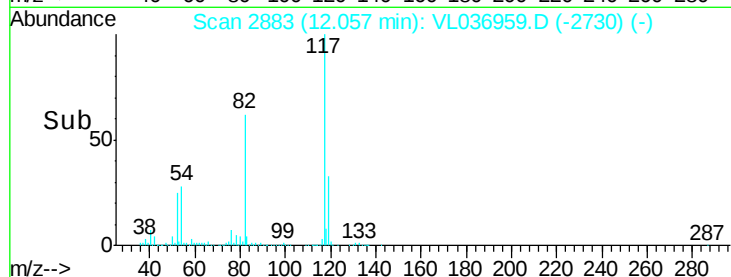
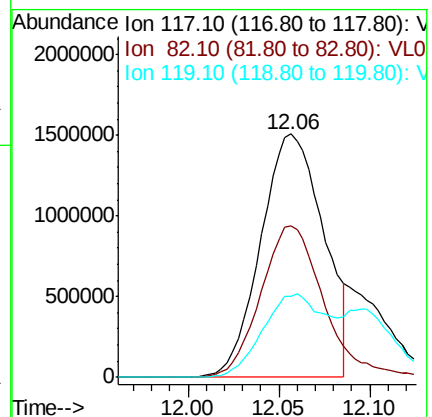
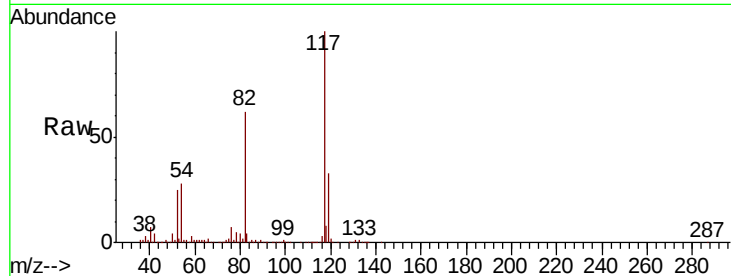
82 63.3 52.6 79.0

119 58.0 46.6 70.0

Manual Integrations
APPROVED

MMDadoda

5/20/2021 5:54:31 PM



#56

1,1,1,2-Tetrachloroethane

Concen: 9.321 ppbv

RT: 12.10 min Scan# 2895

Delta R.T. -0.01 min

Lab File: VL036959.D

Acq: 18 May 2021 8:56

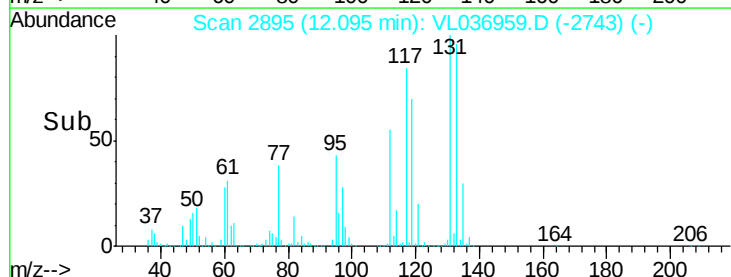
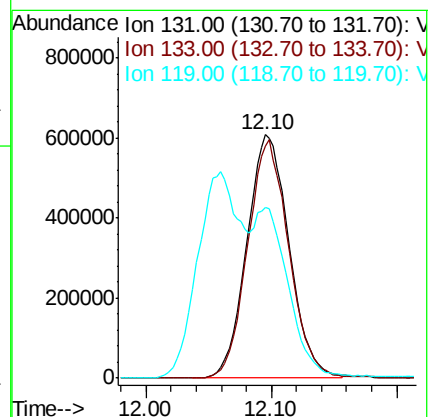
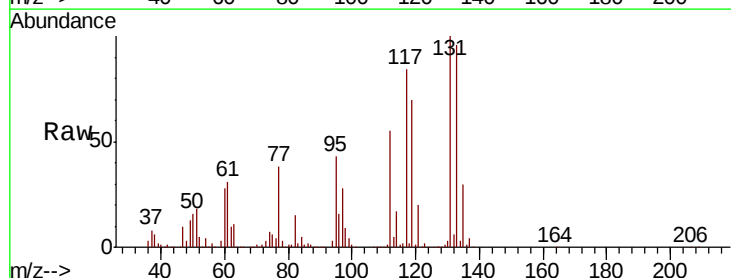
Tgt Ion:131 Resp: 1423383

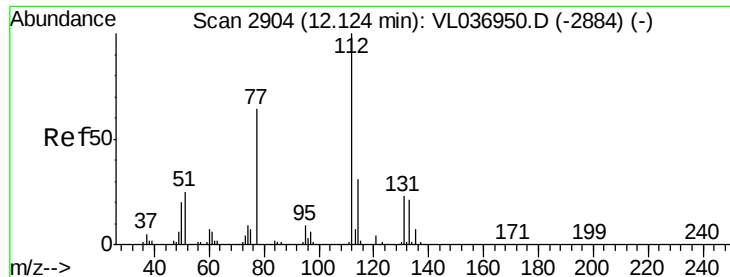
Ion Ratio Lower Upper

131 100

133 96.2 76.9 115.3

119 147.8 120.2 180.4





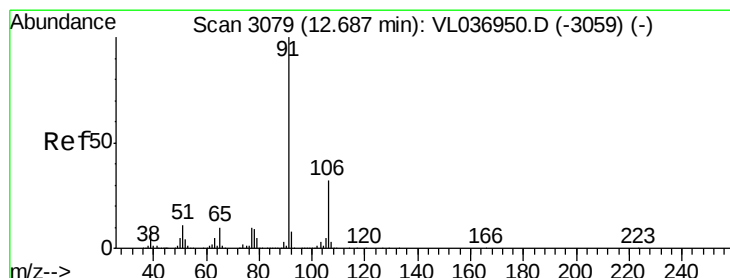
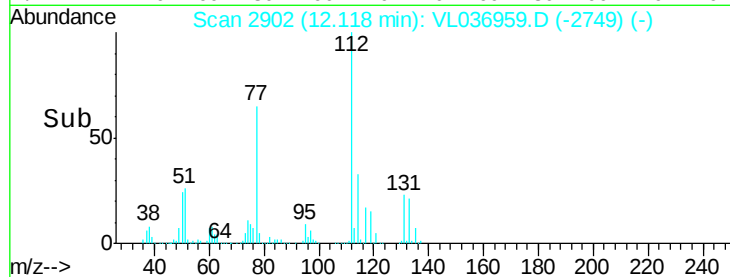
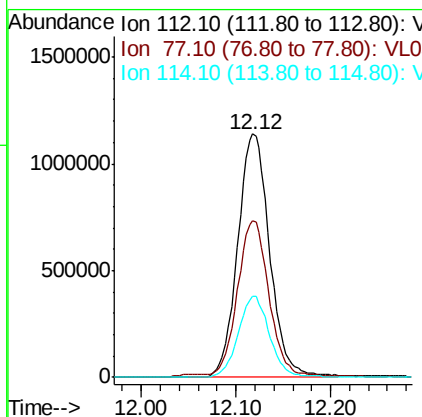
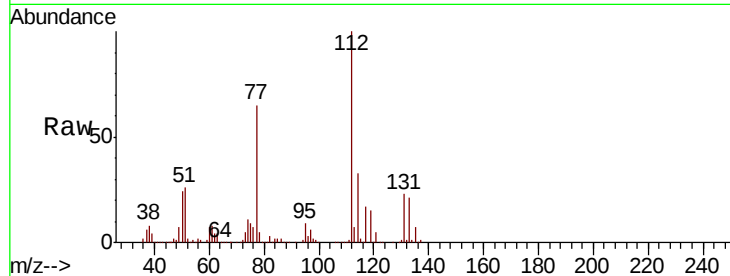
#57
Chlorobenzene
Concen: 9.515 ppbv
RT: 12.12 min Scan# 2902
Delta R.T. -0.01 min
Lab File: VL036959.D
Acq: 18 May 2021 8:56

Instrument :
MSVOA_L
ClientSampleId :
VL0518ABS01

Tot Ion	Ratio	Lower	Upper
112	100		
77	63.9	51.0	76.6
114	33.4	28.3	34.5

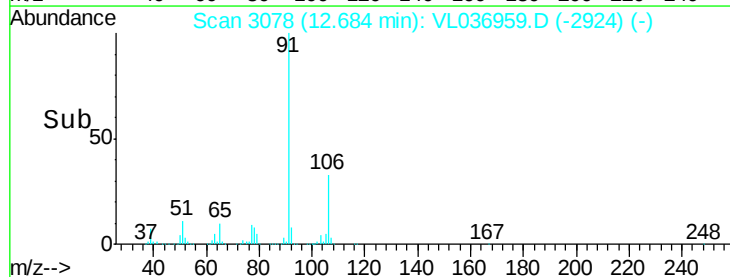
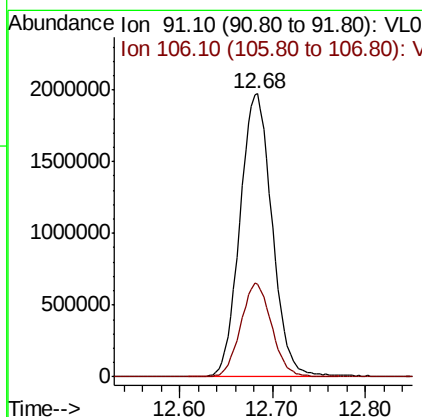
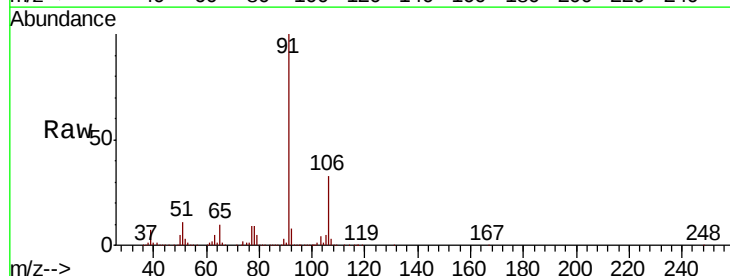
Manual Integrations
APPROVED

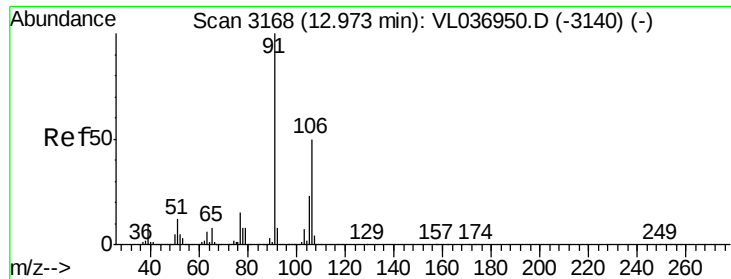
MMDadoda
5/20/2021 5:54:31 PM



#58
Ethyl Benzene
Concen: 9.264 ppbv
RT: 12.68 min Scan# 3078
Delta R.T. -0.00 min
Lab File: VL036959.D
Acq: 18 May 2021 8:56

Tgt Ion	Ratio	Lower	Upper
91	100		
106	32.8	25.6	38.4





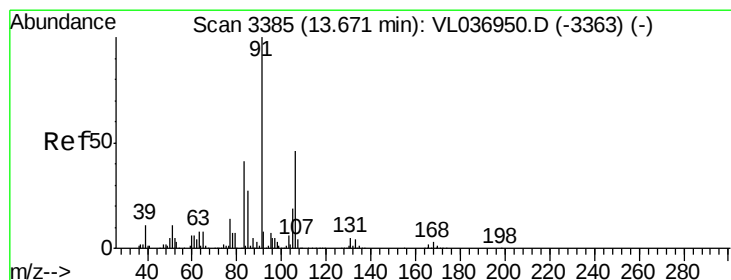
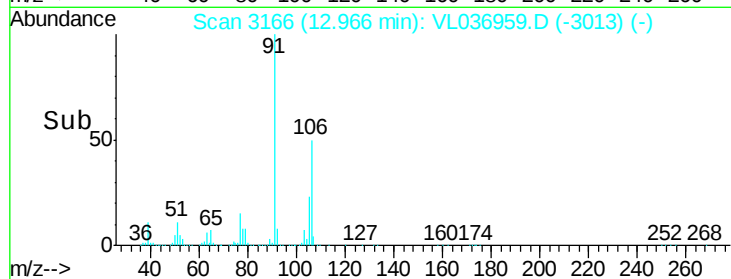
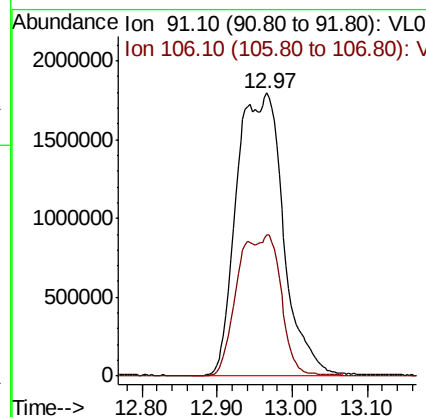
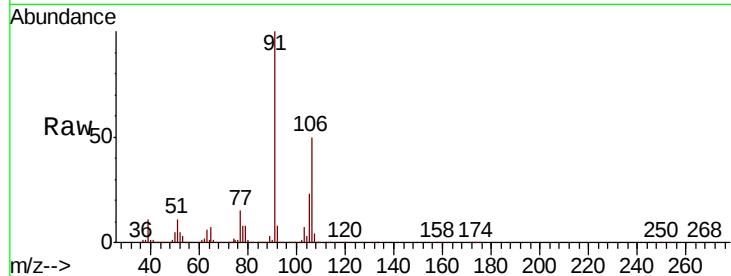
#59
m/p-Xylene
Concen: 18.394 ppbv m
RT: 12.97 min Scan# 3166
Delta R.T. -0.01 min
Lab File: VL036959.D
Acq: 18 May 2021 8:56

Instrument :
MSVOA_L
ClientSampleId :
VL0518ABS01

Tot Ion: 91 Resp: 7787605
Ion Ratio Lower Upper
91 100
106 46.7 37.4 56.2

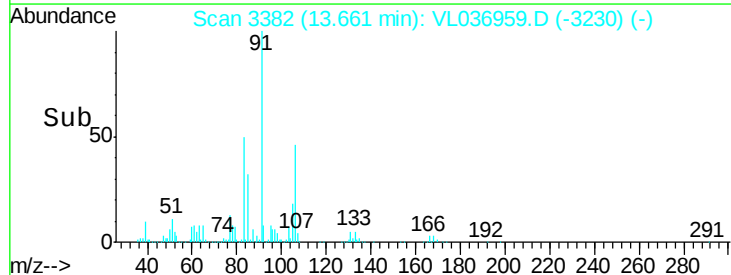
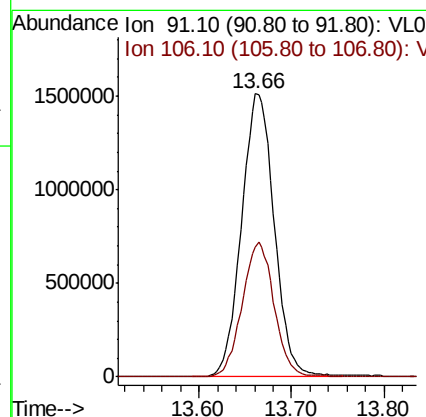
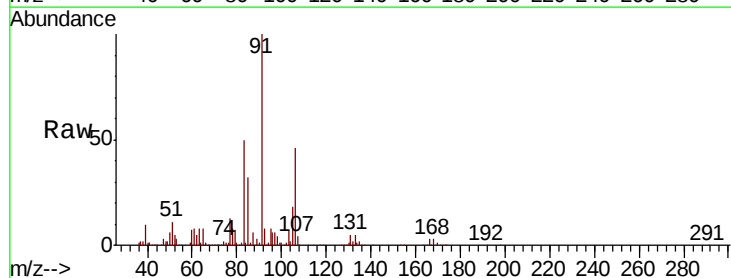
Manual Integrations
APPROVED

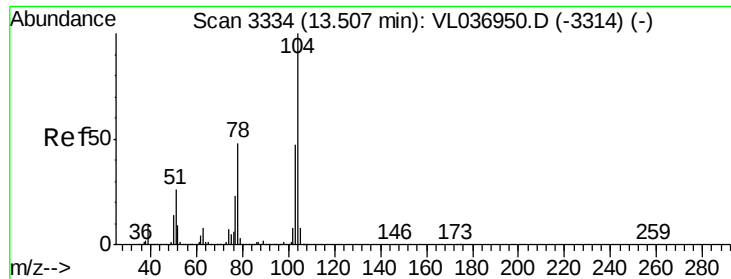
MMDadoda
5/20/2021 5:54:31 PM



#60
o-Xylene
Concen: 9.144 ppbv
RT: 13.66 min Scan# 3382
Delta R.T. -0.01 min
Lab File: VL036959.D
Acq: 18 May 2021 8:56

Tgt Ion: 91 Resp: 3692242
Ion Ratio Lower Upper
91 100
106 46.7 23.4 70.3





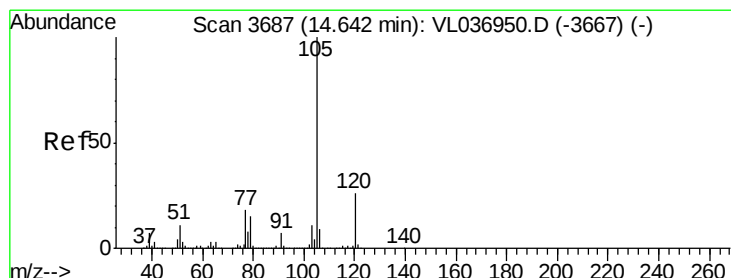
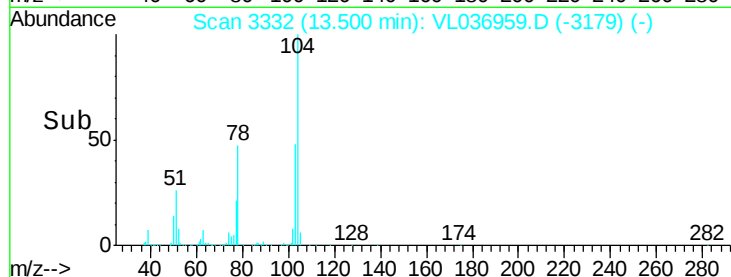
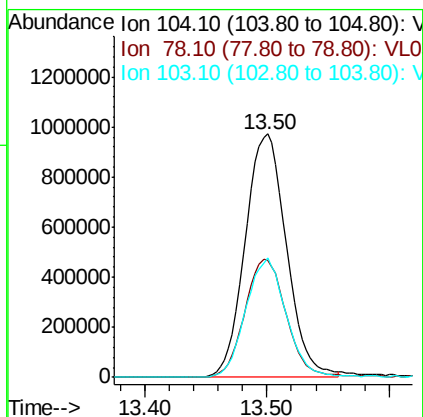
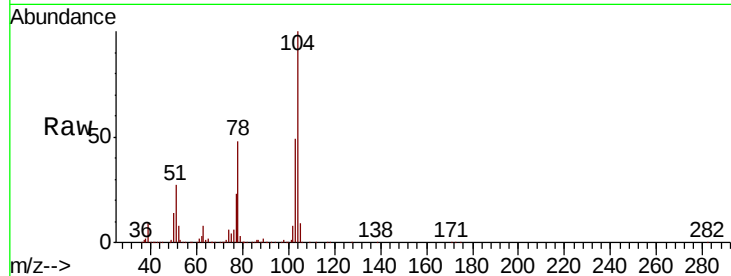
#61
Stvrene
Concen: 10.007 ppbv
RT: 13.50 min Scan# 3332
Delta R.T. -0.01 min
Lab File: VL036959.D
Acq: 18 May 2021 8:56

Instrument :
MSVOA_L
ClientSampleId :
VL0518ABS01

Tot Ion	Ratio	Lower	Upper
104	100		
78	49.0	39.0	58.6
103	48.5	38.0	57.0

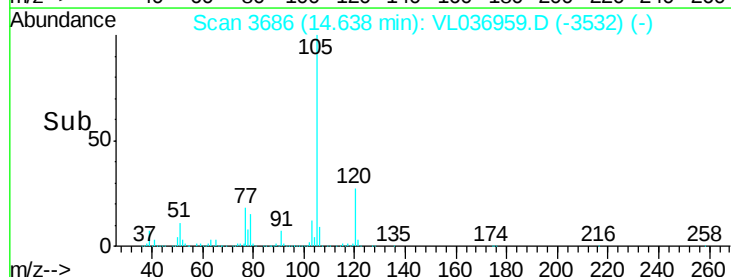
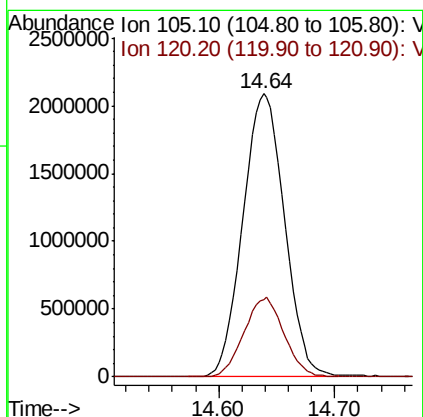
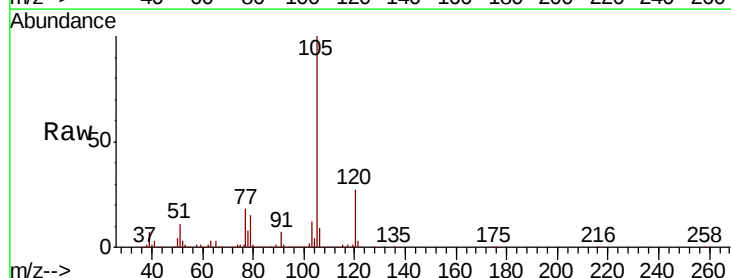
Manual Integrations
APPROVED

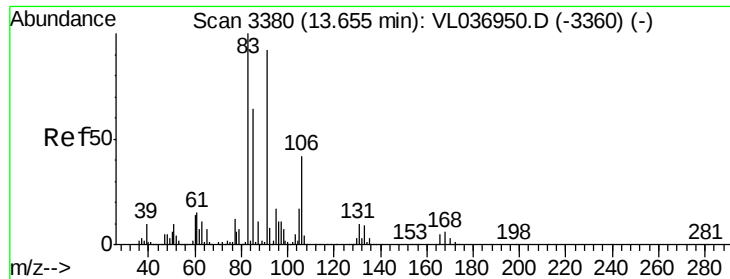
MMDadoda
5/20/2021 5:54:31 PM



#62
Isopropylbenzene
Concen: 8.982 ppbv
RT: 14.64 min Scan# 3686
Delta R.T. -0.00 min
Lab File: VL036959.D
Acq: 18 May 2021 8:56

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.2	21.7	32.5





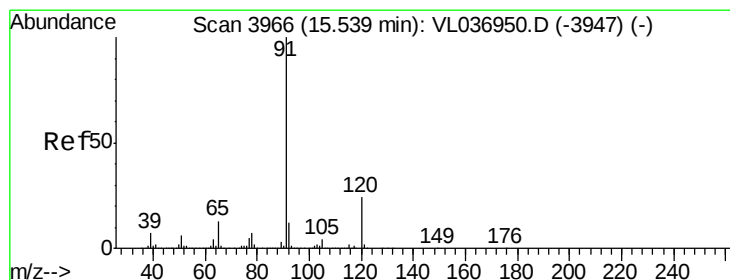
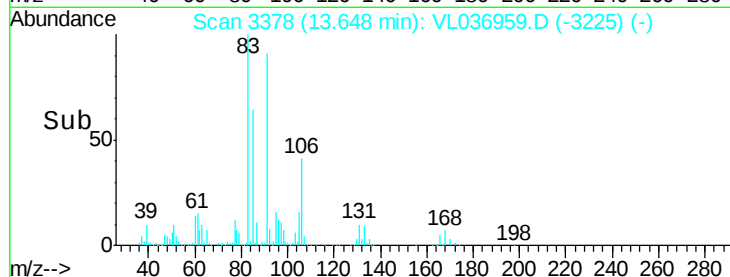
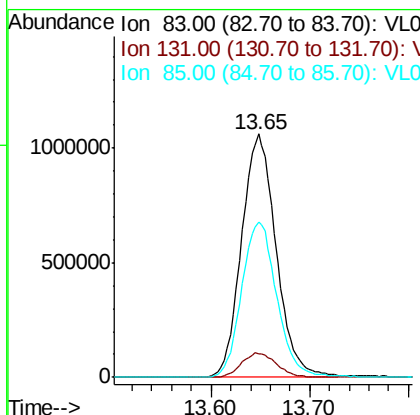
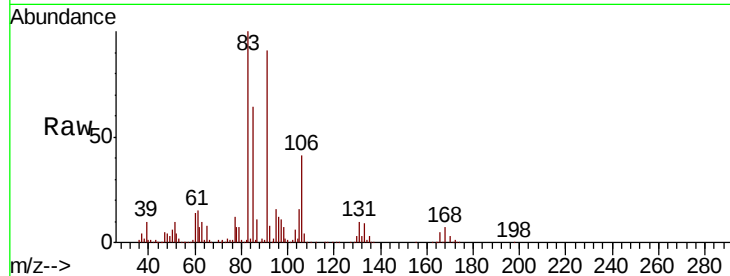
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.535 ppbv
 RT: 13.65 min Scan# 3378
 Delta R.T. -0.01 min
 Lab File: VL036959.D
 Acq: 18 May 2021 8:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0518ABS01

Tot Ion	83	Resp	2574072
Ion Ratio	100	Lower	Upper
83	100		
131	10.2	5.0	15.0
85	65.8	32.9	98.6

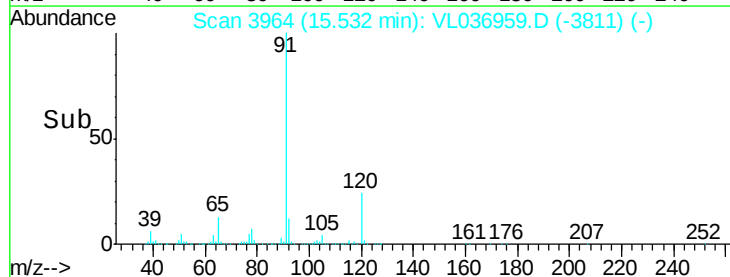
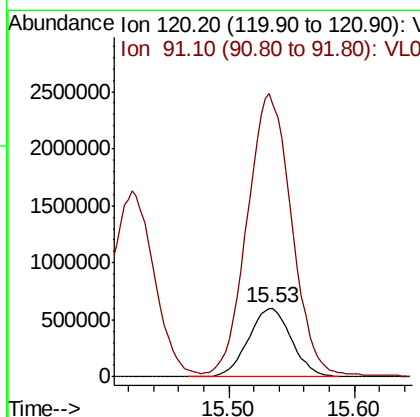
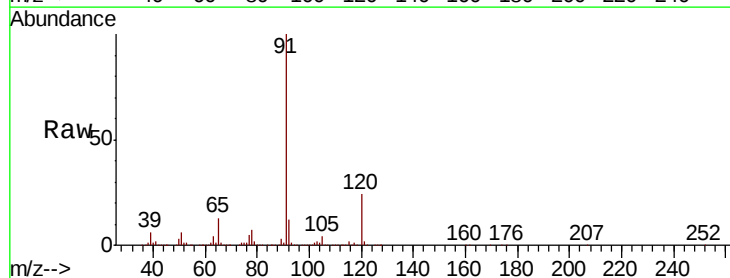
Manual Integrations
 APPROVED

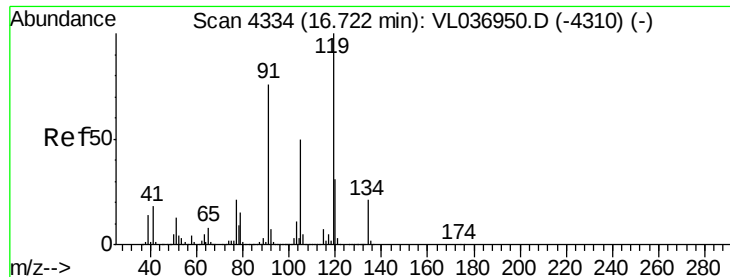
MMDadoda
 5/20/2021 5:54:31 PM



#64
 n-propylbenzene
 Concen: 9.554 ppbv
 RT: 15.53 min Scan# 3964
 Delta R.T. -0.01 min
 Lab File: VL036959.D
 Acq: 18 May 2021 8:56

Tgt Ion	120	Resp	1430530
Ion Ratio	100	Lower	Upper
120	100		
91	430.3	343.8	515.6





#65

tert-Butylbenzene

Concen: 8.869 ppbv

RT: 16.72 min Scan# 4332

Delta R.T. -0.01 min

Lab File: VL036959.D

Acq: 18 May 2021 8:56

Instrument :

MSVOA_L

ClientSampleId :

VL0518ABS01

Tot Ion:119 Resp: 4644248

Ion Ratio Lower Upper

119 100

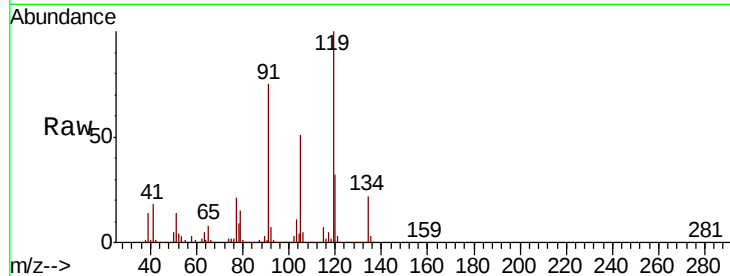
91 76.6 61.9 92.9

134 20.1 16.2 24.4

Manual Integrations
APPROVED

MMDadoda

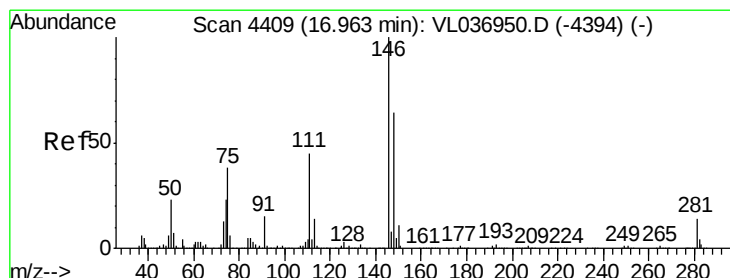
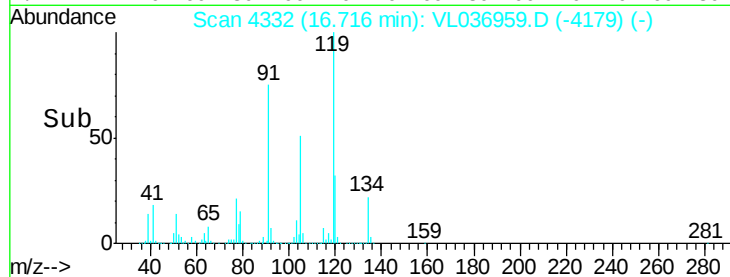
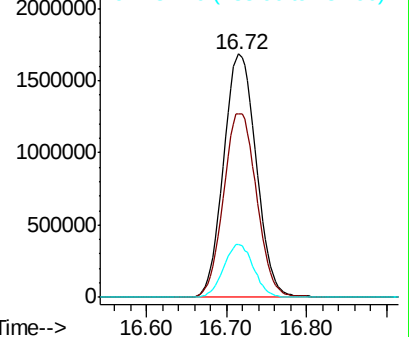
5/20/2021 5:54:31 PM



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 12.098 ppbv m

RT: 16.96 min Scan# 4407

Delta R.T. -0.01 min

Lab File: VL036959.D

Acq: 18 May 2021 8:56

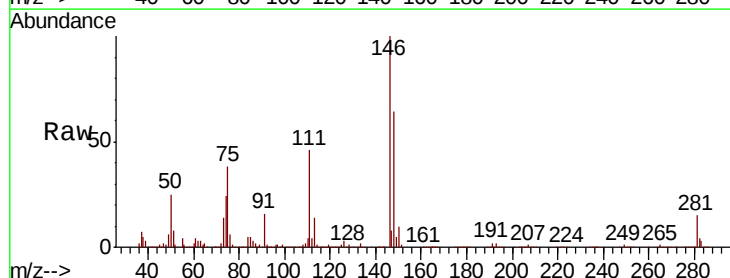
Tgt Ion: 91 Resp: 351521

Ion Ratio Lower Upper

91 100

126 0.0 16.5 24.7#

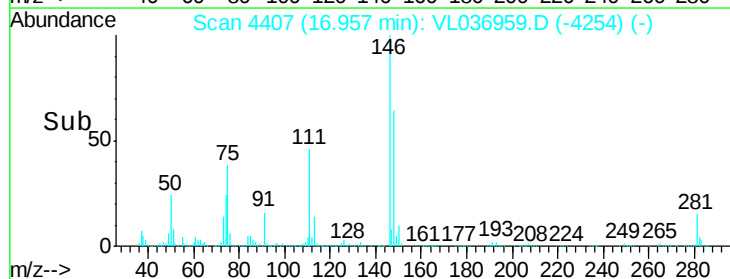
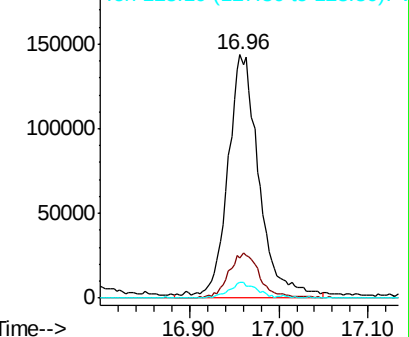
128 0.0 5.5 8.3#

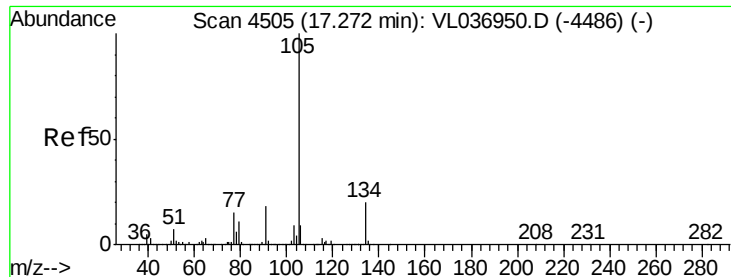


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 8.881 ppbv

RT: 17.27 min Scan# 4503

Delta R.T. -0.01 min

Lab File: VL036959.D

Acq: 18 May 2021 8:56

Instrument :

MSVOA_L

ClientSampleId :

VL0518ABS01

Tot Ion: 105 Resp: 6344591

Ion Ratio Lower Upper

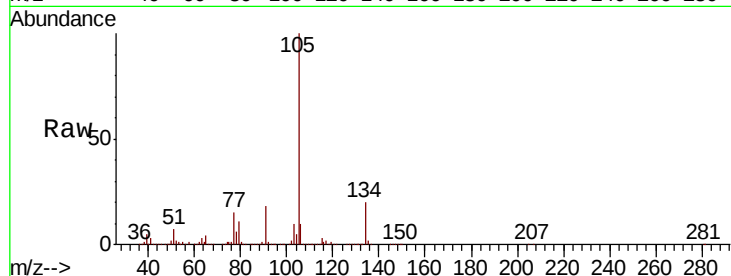
105 100

134 19.7 15.6 23.4

Manual Integrations
APPROVED

MMDadoda

5/20/2021 5:54:31 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.27

2500000

2000000

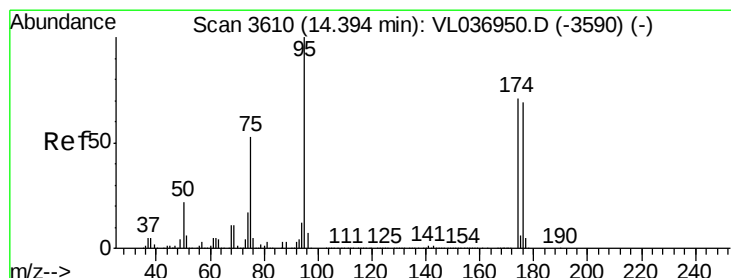
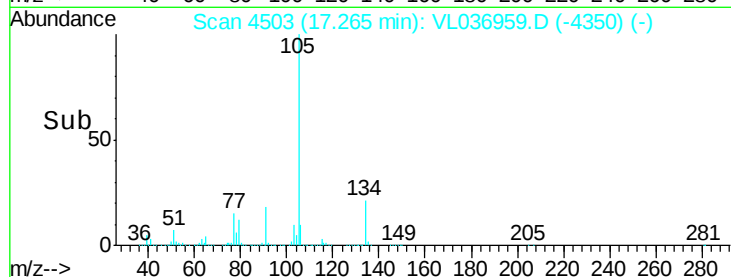
1500000

1000000

500000

0

Time--> 17.10 17.20 17.30 17.40



#68

1-Bromo-4-Fluorobenzene

Concen: 10.382 ppbv

RT: 14.39 min Scan# 3608

Delta R.T. -0.01 min

Lab File: VL036959.D

Acq: 18 May 2021 8:56

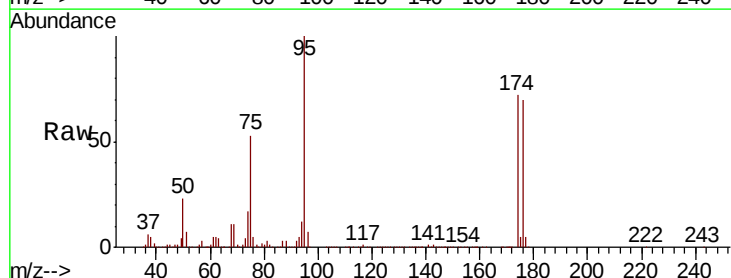
Tgt Ion: 95 Resp: 2830532

Ion Ratio Lower Upper

95 100

174 73.4 58.4 87.6

175 5.6 4.4 6.6



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

14.39

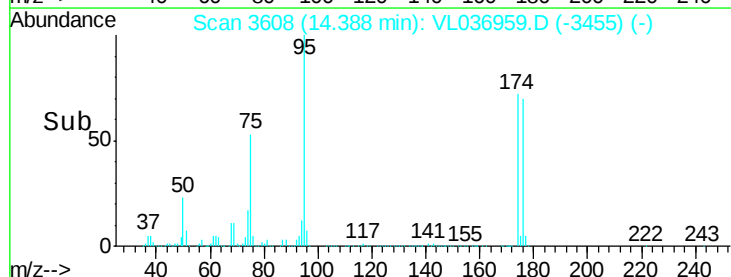
1500000

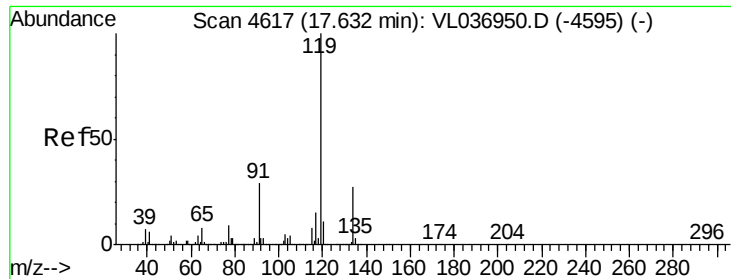
1000000

500000

0

Time--> 14.30 14.40 14.50





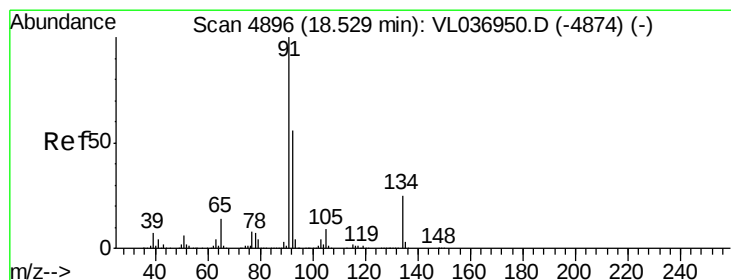
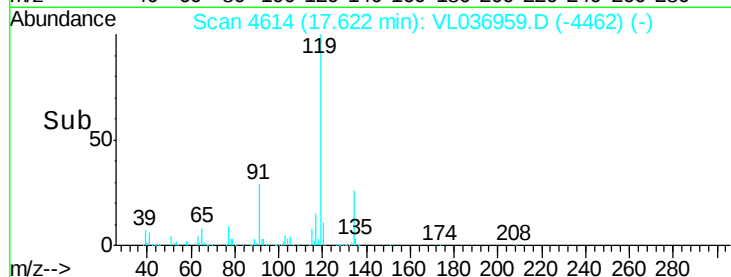
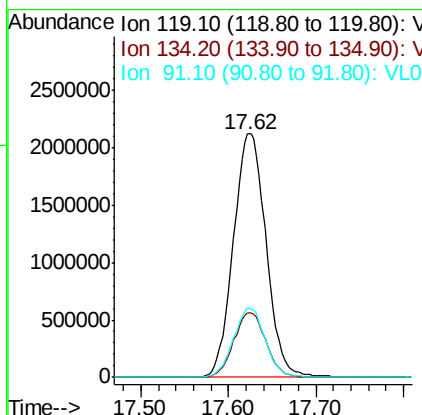
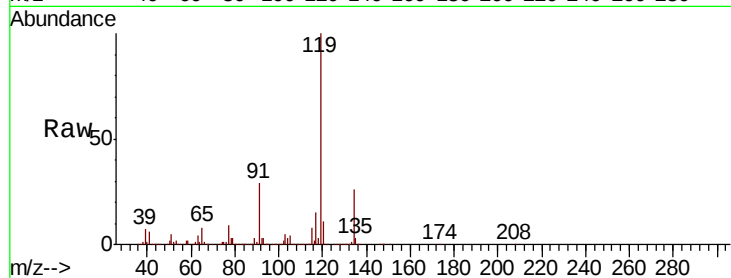
#69
 p-Isopropyltoluene
 Concen: 8.950 ppbv
 RT: 17.62 min Scan# 4614
 Delta R.T. -0.01 min
 Lab File: VL036959.D
 Acq: 18 May 2021 8:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0518ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.3	21.2	31.8
91	27.6	22.2	33.4

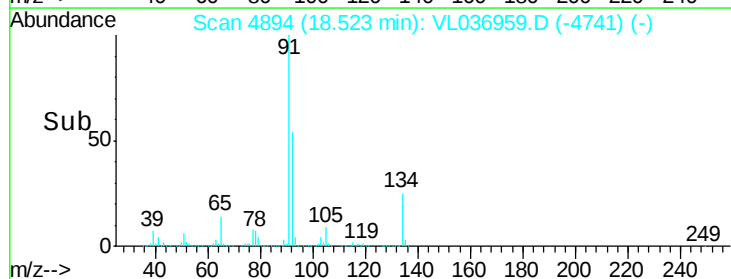
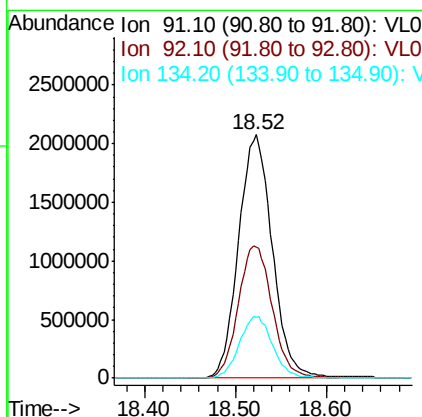
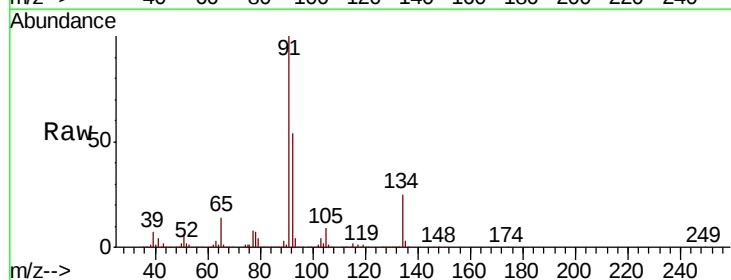
Manual Integrations
 APPROVED

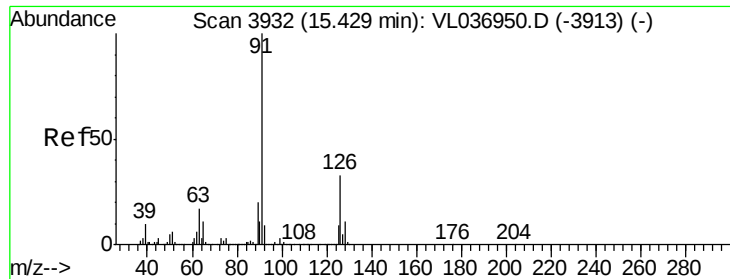
MMDadoda
 5/20/2021 5:54:31 PM



#70
 n-Butylbenzene
 Concen: 9.147 ppbv
 RT: 18.52 min Scan# 4894
 Delta R.T. -0.01 min
 Lab File: VL036959.D
 Acq: 18 May 2021 8:56

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.1	44.6	66.8
134	25.2	20.2	30.2





#71

2-Chlorotoluene

Concen: 9.336 ppbv

RT: 15.42 min Scan# 3930

Delta R.T. -0.01 min

Lab File: VL036959.D

Acq: 18 May 2021 8:56

Instrument :

MSVOA_L

ClientSampleId :

VL0518ABS01

Tot Ion: 91 Resp: 3913233

Ion Ratio Lower Upper

91 100

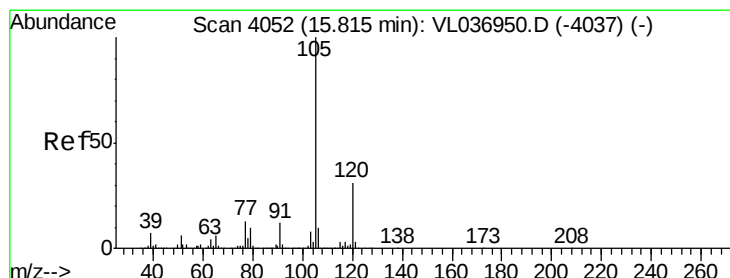
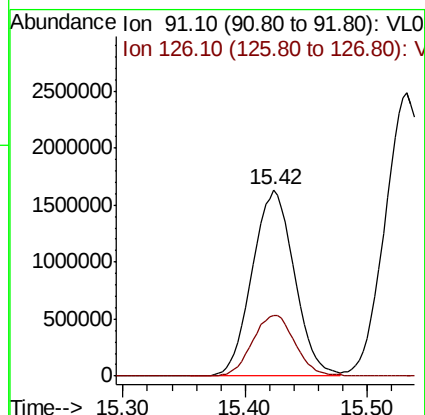
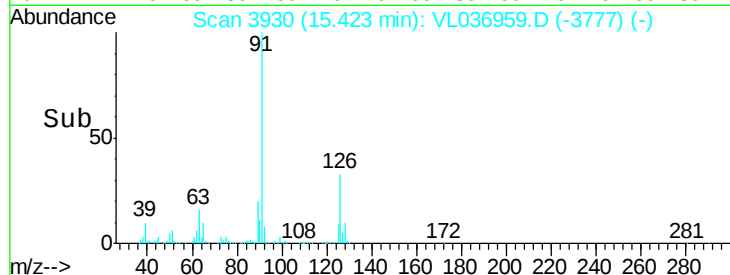
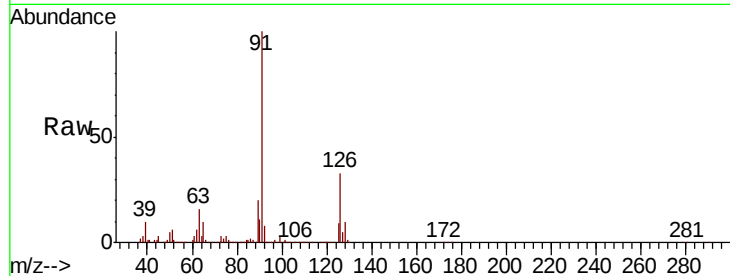
126 33.3 13.1 52.5

Manual Integrations

APPROVED

MMDadoda

5/20/2021 5:54:31 PM



#72

4-Ethyltoluene

Concen: 9.539 ppbv

RT: 15.81 min Scan# 4051

Delta R.T. -0.00 min

Lab File: VL036959.D

Acq: 18 May 2021 8:56

Tgt Ion: 105 Resp: 4571648

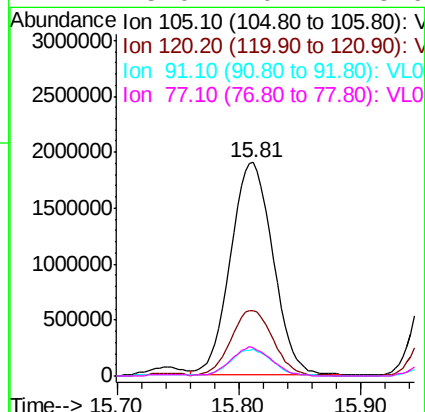
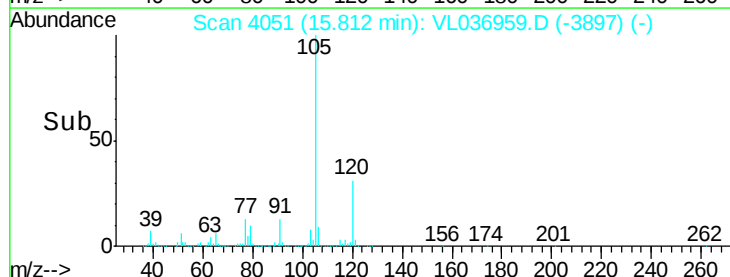
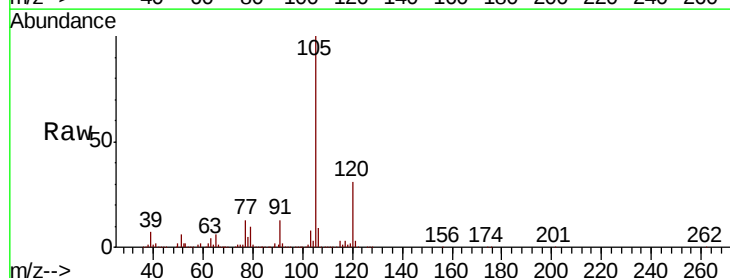
Ion Ratio Lower Upper

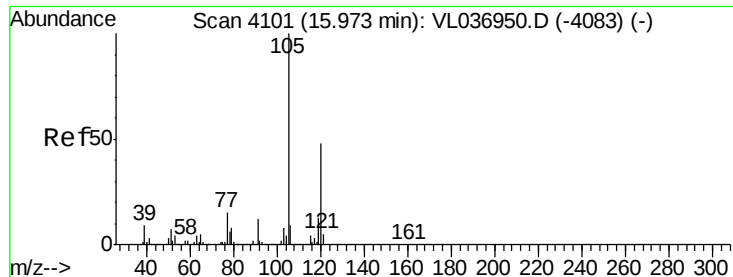
105 100

120 31.0 24.6 37.0

91 12.3 9.8 14.6

77 13.0 10.4 15.6





#73

1,3,5-Trimethylbenzene

Concen: 9.148 ppbv

RT: 15.97 min Scan# 4100

Delta R.T. -0.00 min

Lab File: VL036959.D

Acq: 18 May 2021 8:56

Instrument :

MSVOA_L

ClientSampleId :

VL0518ABS01

Tot Ion:105 Resp: 4117103

Ion Ratio Lower Upper

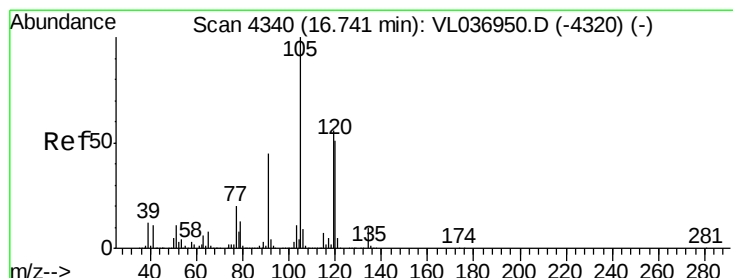
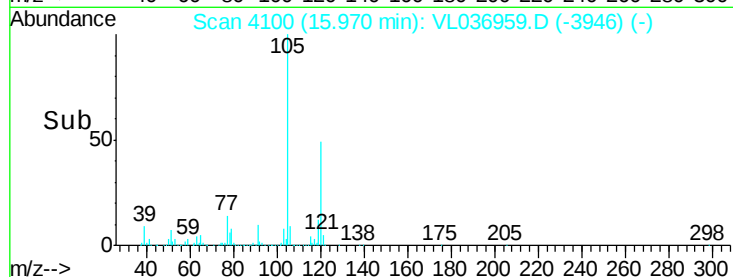
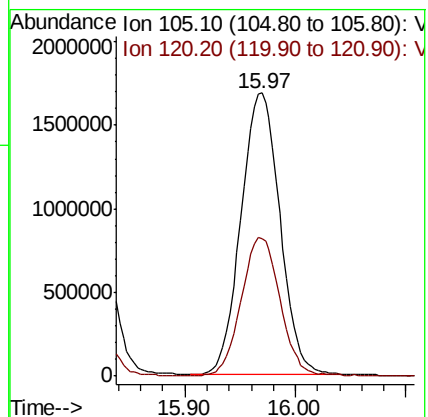
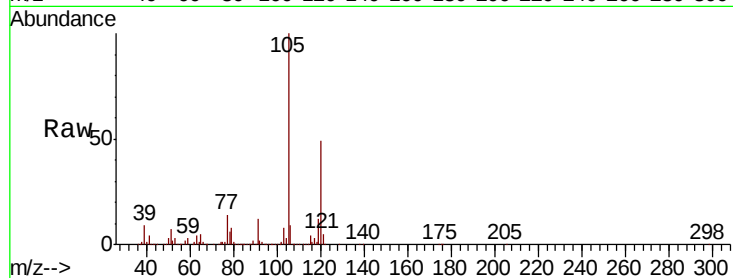
105 100

120 48.9 38.6 58.0

Manual Integrations
APPROVED

MMDadoda

5/20/2021 5:54:31 PM



#74

1,2,4-Trimethylbenzene

Concen: 9.121 ppbv

RT: 16.73 min Scan# 4338

Delta R.T. -0.01 min

Lab File: VL036959.D

Acq: 18 May 2021 8:56

Tgt Ion:105 Resp: 4244211

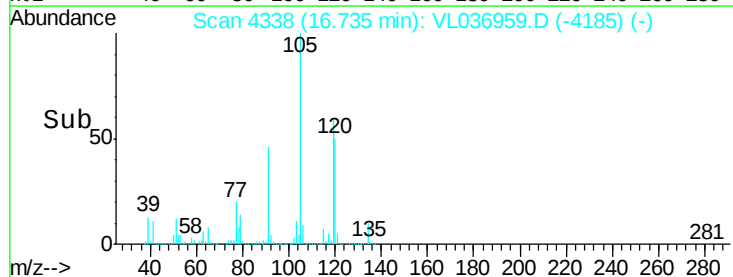
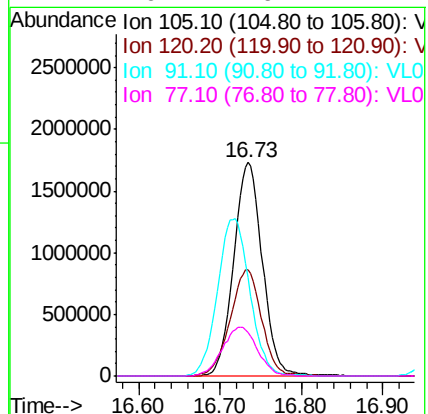
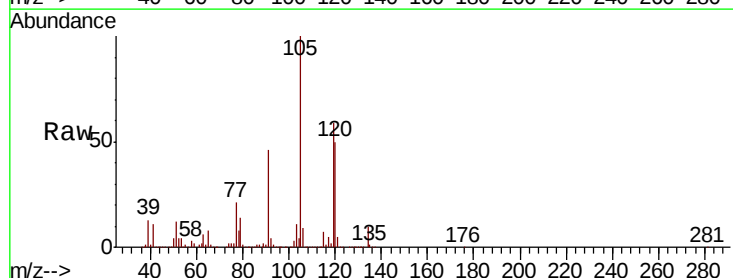
Ion Ratio Lower Upper

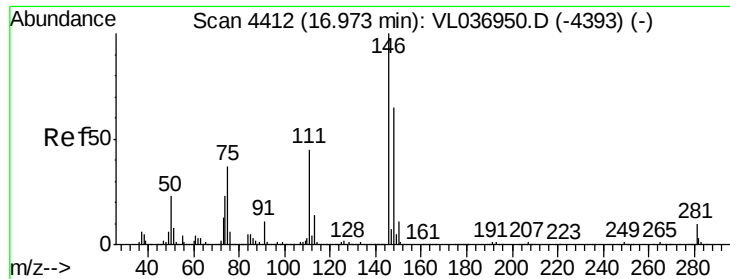
105 100

120 49.9 40.6 61.0

91 46.1 37.4 56.0

77 20.4 16.2 24.4





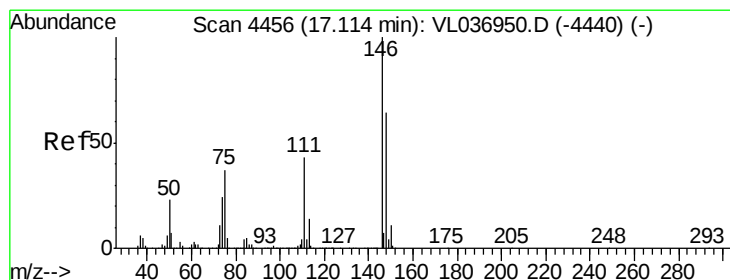
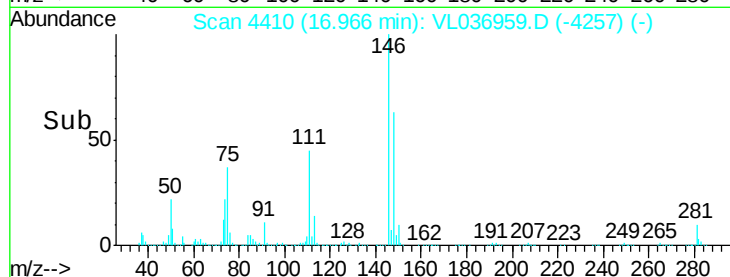
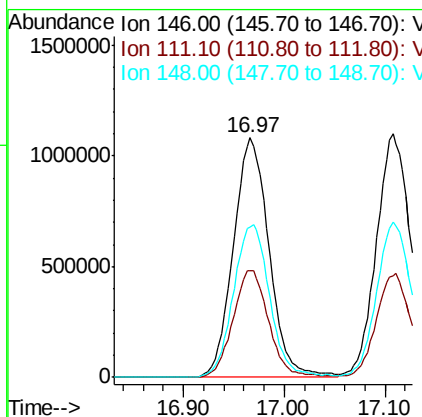
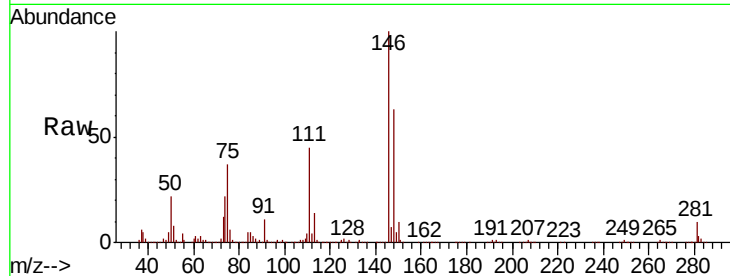
#75
 1,3-Dichlorobenzene
 Concen: 9.380 ppbv
 RT: 16.97 min Scan# 4410
 Delta R.T. -0.01 min
 Lab File: VL036959.D
 Acq: 18 May 2021 8:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0518ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.3	22.2	66.6
148	64.6	32.3	96.8

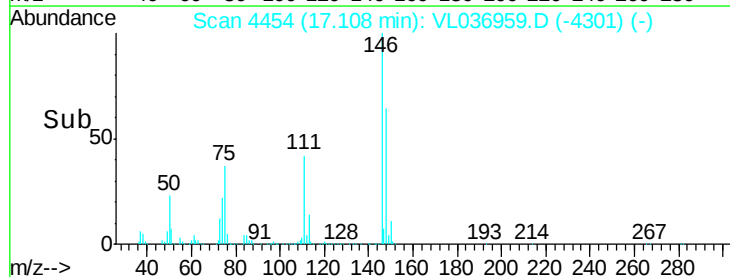
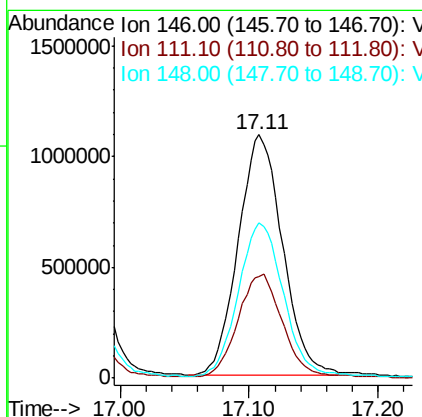
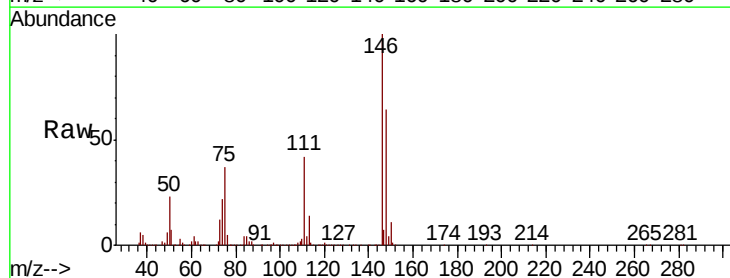
Manual Integrations
 APPROVED

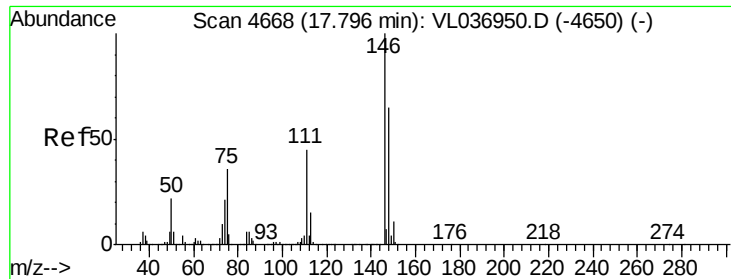
MMDadoda
 5/20/2021 5:54:31 PM



#76
 1,4-Dichlorobenzene
 Concen: 9.002 ppbv
 RT: 17.11 min Scan# 4454
 Delta R.T. -0.01 min
 Lab File: VL036959.D
 Acq: 18 May 2021 8:56

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.2	22.6	67.7
148	67.5	33.5	100.5





#77

1,2-Dichlorobenzene

Concen: 9.138 ppbv

RT: 17.79 min Scan# 4665

Delta R.T. -0.01 min

Lab File: VL036959.D

Acq: 18 May 2021 8:56

Instrument :

MSVOA_L

ClientSampleId :

VL0518ABS01

Tot Ion:146 Resp: 2601903

Ion Ratio Lower Upper

146 100

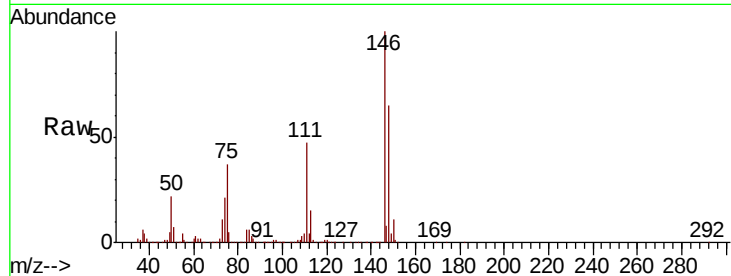
111 45.4 23.1 69.2

148 64.8 32.5 97.4

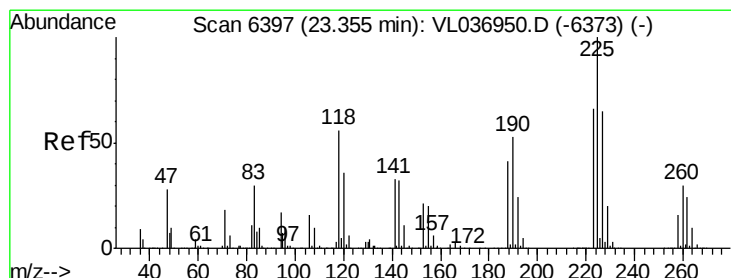
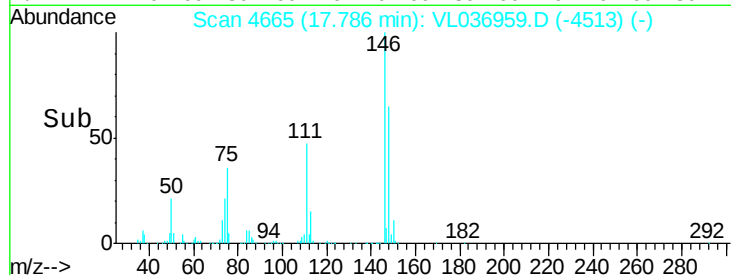
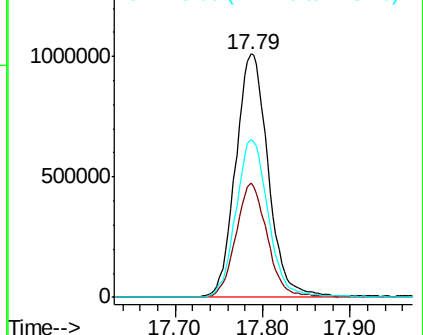
Manual Integrations
APPROVED

MMDadoda

5/20/2021 5:54:31 PM



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 8.220 ppbv

RT: 23.35 min Scan# 6395

Delta R.T. -0.01 min

Lab File: VL036959.D

Acq: 18 May 2021 8:56

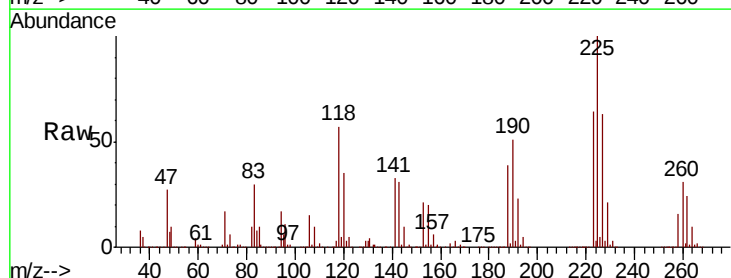
Tgt Ion:225 Resp: 1882096

Ion Ratio Lower Upper

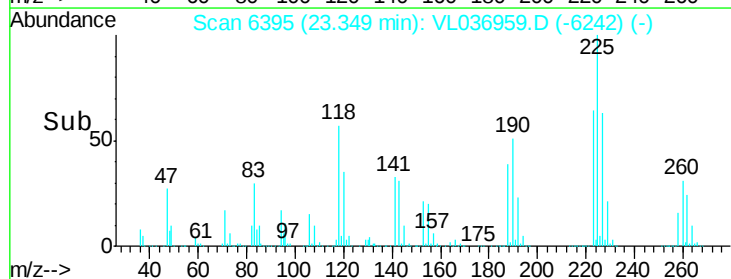
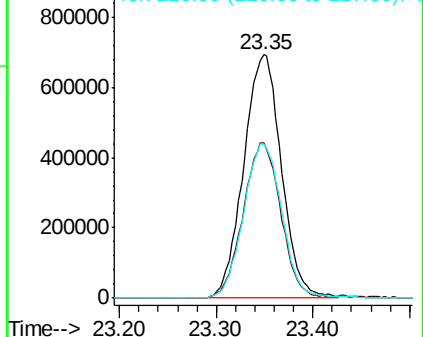
225 100

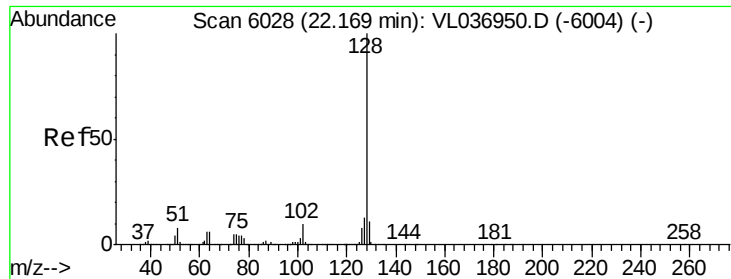
223 64.3 51.9 77.9

227 64.7 51.8 77.6



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





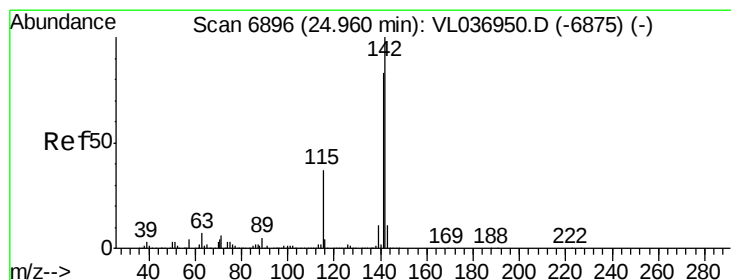
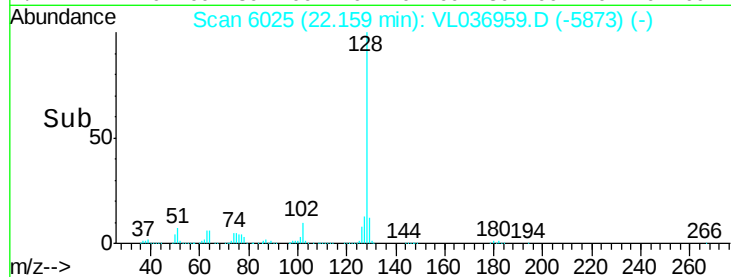
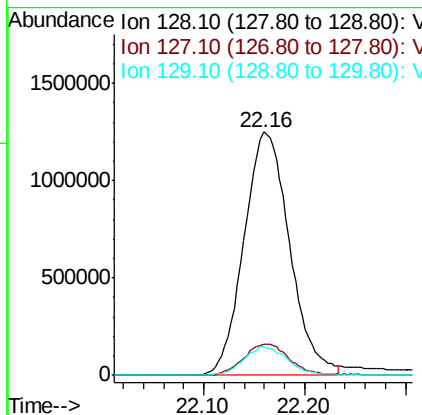
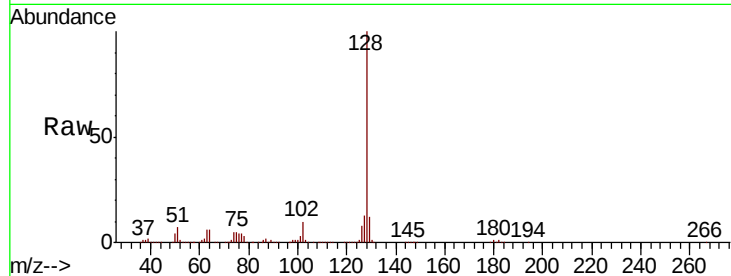
#79
Naphthalene
Concen: 10.761 ppbv
RT: 22.16 min Scan# 6025
Delta R.T. -0.01 min
Lab File: VL036959.D
Acq: 18 May 2021 8:56

Instrument :
MSVOA_L
ClientSampleId :
VL0518ABS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.4	15.6
129	11.7	9.0	13.6

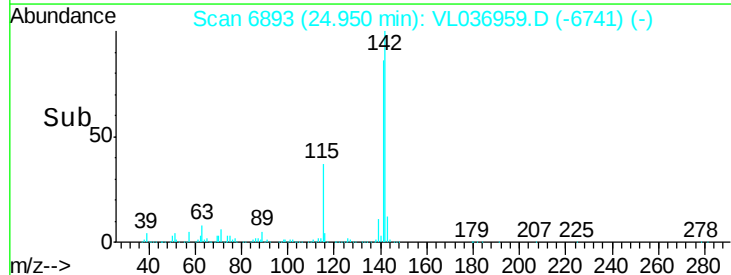
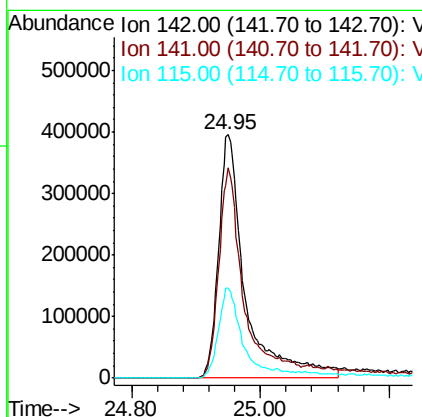
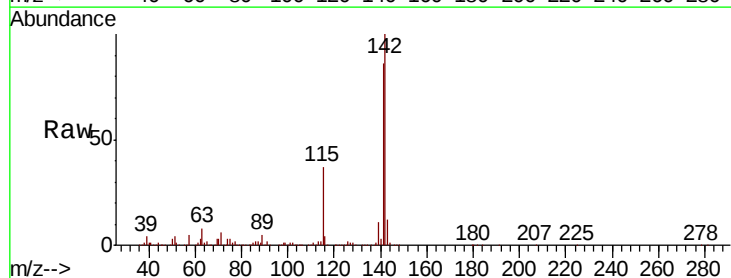
Manual Integrations
APPROVED

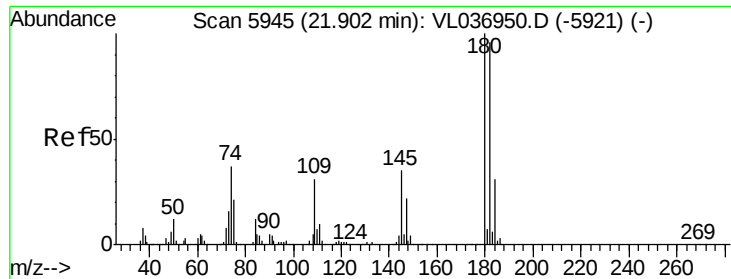
MMDadoda
5/20/2021 5:54:31 PM



#80
Naphthalene, 2-methyl-
Concen: 14.494 ppbv
RT: 24.95 min Scan# 6893
Delta R.T. -0.01 min
Lab File: VL036959.D
Acq: 18 May 2021 8:56

Tgt Ion	Ratio	Lower	Upper
142	100		
141	86.8	69.3	103.9
115	39.1	29.1	43.7





#81
 1,2,4-Trichlorobenzene
 Concen: 10.012 ppbv
 RT: 21.90 min Scan# 5943
 Delta R.T. -0.01 min
 Lab File: VL036959.D
 Acq: 18 May 2021 8:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0518ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	100.4	81.7	122.5
184	32.1	24.9	37.3

Manual Integrations
 APPROVED

MMDadoda
 5/20/2021 5:54:31 PM

