

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080421\
 Data File : VL037314.D
 Acq On : 4 Aug 2021 18:05
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 8/5/2021 1:39:48 PM

Quant Time: Aug 04 22:30:52 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 04 22:30:52 2021
 QLast Update : Wed Aug 04 22:14:21 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1273738	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4093301	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3752854	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2388887	9.12	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	489142	2.022	ppbv	98
3) Chlorodifluoromethane	2.98	51	573768	2.199	ppbv	99
4) Chloromethane	3.13	50	210943	2.280	ppbv	98
5) Vinyl Chloride	3.25	62	223081	2.210	ppbv	97
6) Bromomethane	3.47	94	133058	2.500	ppbv	100
7) Chloroethane	3.55	64	77790	2.493	ppbv	89
8) Dichlorotetrafluoroethane	3.18	85	553465	2.341	ppbv	100
9) Propene	3.00	41	198699	2.145	ppbv	96
10) Heptane	8.11	43	495011	2.240	ppbv	98
11) Trichlorofluoromethane	3.94	101	521960	2.199	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.48	101	386132	2.224	ppbv	99
13) Ethanol	3.62	45	31076m	3.392	ppbv	
14) Bromoethene	3.73	108	173479	2.266	ppbv	98
15) Acetone	3.85	43	329687	2.346	ppbv #	77
16) 1,3-Butadiene	3.32	39	200474	2.236	ppbv	99
17) tert-Butyl alcohol	4.31	59	294584	2.681	ppbv	98
18) 1,1-Dichloroethene	4.28	96	171624	2.186	ppbv	95
19) Isopropyl Alcohol	3.99	45	159256	2.252	ppbv #	92
20) Methylene Chloride	4.34	84	283240	2.442	ppbv	98
21) Allyl Chloride	4.41	41	249364	2.606	ppbv	93
22) trans-1,2-Dichloroethene	4.88	96	165537	2.283	ppbv	95
23) Vinyl Acetate	5.07	43	486311	2.316	ppbv	97
24) 1,1-Dichloroethane	5.01	63	391008	2.229	ppbv	98
25) Ethyl Acetate	5.68	43	820912	2.537	ppbv #	97
26) Hexane	5.68	57	481411	2.354	ppbv	91
27) Carbon Disulfide	4.55	76	370446	2.255	ppbv	100
28) Methyl tert-Butyl Ether	5.03	73	490660	2.382	ppbv	100
29) Chloroform	5.74	83	568623	2.199	ppbv	100
30) Cyclohexane	7.12	84	344766	2.453	ppbv	90
31) cis-1,2-Dichloroethene	5.54	61	353830	2.482	ppbv	96
32) 1,1,1-Trichloroethane	6.51	97	539566m	2.348	ppbv	
34) 2-Butanone	5.25	43	315909	2.190	ppbv	92
35) Carbon Tetrachloride	7.01	117	546882	2.164	ppbv	96
36) Benzene	6.88	78	822009	2.211	ppbv	99
37) 1,2-Dichloroethane	6.29	62	371219	2.140	ppbv	99
38) Trichloroethene	7.82	130	340816	2.131	ppbv	95
39) 1,2-Dichloropropane	7.60	63	297601	2.476	ppbv	99
40) 1,4-Dioxane	7.86	88	83823m	4.549	ppbv	
41) Tetrahydrofuran	6.06	42	173543	2.870	ppbv	97
42) Bromodichloromethane	7.78	83	571861	2.199	ppbv #	91
43) Methyl Methacrylate	8.01	69	267438	2.328	ppbv	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080421\
 Data File : VL037314.D
 Acq On : 4 Aug 2021 18:05
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

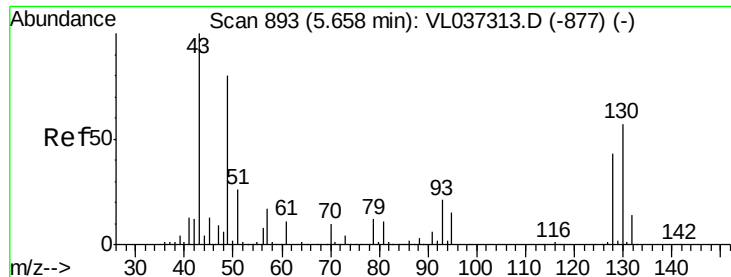
Manual Integrations
 APPROVED

MMDadoda
 8/5/2021 1:39:48 PM

Quant Time: Aug 04 22:30:52 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 04 2021
 QLast Update : Wed Aug 04 22:14:21 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	1365432	2.220	ppbv	99
45) t-1,3-Dichloropropene	9.27	75	225193	2.419	ppbv	96
46) cis-1,3-Dichloropropene	8.69	75	314575	2.186	ppbv	98
47) 1,1,2-Trichloroethane	9.46	97	321828	2.465	ppbv	95
48) Dibromochloromethane	10.29	129	480055	2.164	ppbv	99
49) Bromoform	13.02	173	360531	2.114	ppbv	98
50) 4-Methyl-2-Pentanone	8.75	43	497871	2.399	ppbv	99
51) 2-Hexanone	10.16	43	239569m	3.458	ppbv	
52) Tetrachloroethene	11.21	164	329310m	2.456	ppbv	
53) Toluene	9.79	91	959716	2.184	ppbv	99
54) 1,2-Dibromoethane	10.60	107	435643	2.292	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.11	131	350804	2.137	ppbv #	1
57) Chlorobenzene	12.13	112	664579	2.085	ppbv	94
58) Ethyl Benzene	12.70	91	1182218	2.137	ppbv	96
59) m/p-Xylene	12.98	91	2092943m	6.897	ppbv	
60) o-Xylene	13.68	91	934703	2.185	ppbv	97
61) Styrene	13.52	104	498401	2.126	ppbv	99
62) Isopropylbenzene	14.65	105	1354873m	2.472	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.67	83	651939m	2.558	ppbv	
64) n-propylbenzene	15.55	120	348364	2.150	ppbv	91
65) tert-Butylbenzene	16.73	119	1278664	2.480	ppbv	100
66) Benzyl Chloride	16.97	91	38461m	0.367	ppbv	
67) sec-Butylbenzene	17.28	105	1722316	2.506	ppbv	99
69) p-Isopropyltoluene	17.64	119	1456695	2.260	ppbv	99
70) n-Butylbenzene	18.54	91	1329018	2.257	ppbv	99
71) 2-Chlorotoluene	15.44	91	938806	2.165	ppbv	100
72) 4-Ethyltoluene	15.82	105	1122355	2.193	ppbv	100
73) 1,3,5-Trimethylbenzene	15.98	105	1023181	2.214	ppbv	96
74) 1,2,4-Trimethylbenzene	16.75	105	1114242	2.258	ppbv	97
75) 1,3-Dichlorobenzene	16.98	146	677333	2.227	ppbv	99
76) 1,4-Dichlorobenzene	17.12	146	631485	2.156	ppbv	96
77) 1,2-Dichlorobenzene	17.80	146	649806	2.238	ppbv	98
78) Hexachloro-1,3-Butadiene	23.36	225	587204	2.560	ppbv	99
79) Naphthalene	22.18	128	1052005	2.500	ppbv	99
80) Naphthalene, 2-methyl-	24.97	142	167860	2.529	ppbv	92
81) 1,2,4-Trichlorobenzene	21.91	180	588598	2.701	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.00 min

Lab File: VL037314.D

Acq: 4 Aug 2021 18:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 49 Resp: 1273738

Ion Ratio Lower Upper

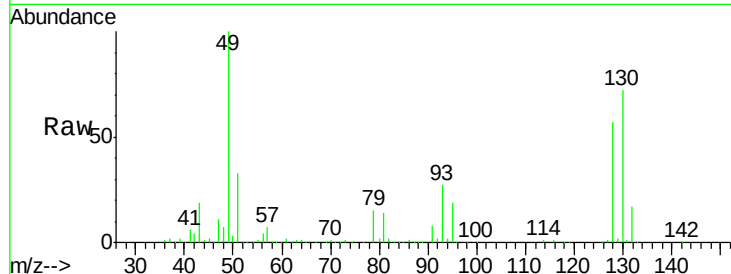
49 100

128 60.7 29.8 89.5

130 77.2 37.5 112.7

Manual Integrations
APPROVED

MMDadoda
8/5/2021 1:39:48 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.66

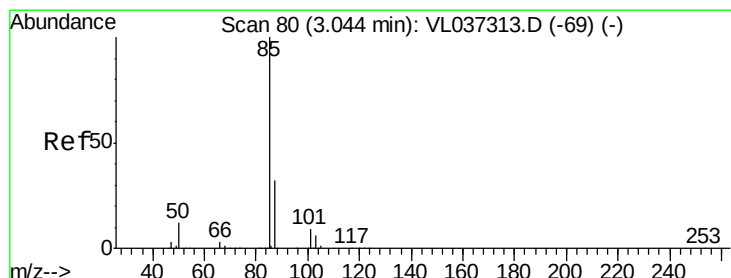
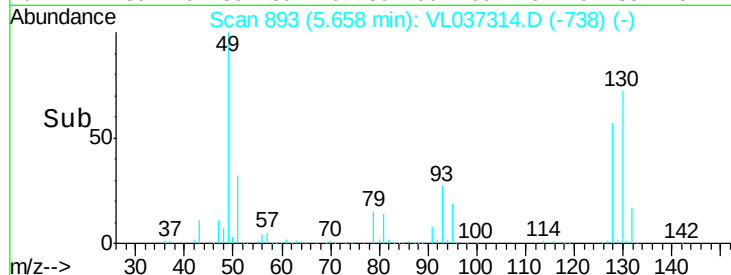
600000

400000

200000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 2.022 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.00 min

Lab File: VL037314.D

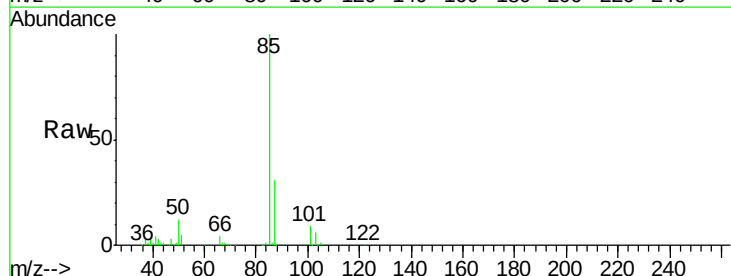
Acq: 4 Aug 2021 18:05

Tgt Ion: 85 Resp: 489142

Ion Ratio Lower Upper

85 100

87 30.8 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.04

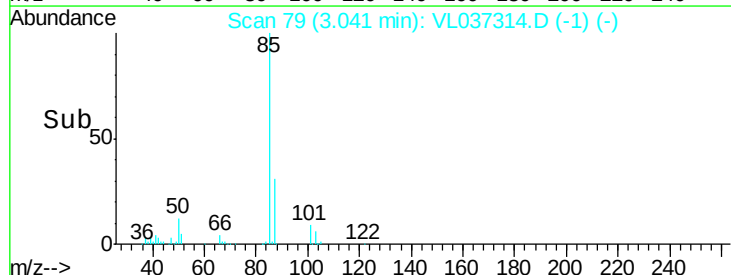
300000

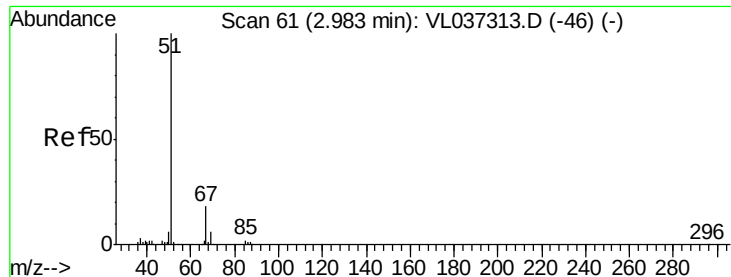
200000

100000

0

Time-->





#3

Chlorodifluoromethane

Concen: 2.199 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.00 min

Lab File: VL037314.D

Acq: 4 Aug 2021 18:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 51 Resp: 573768

Ion Ratio Lower Upper

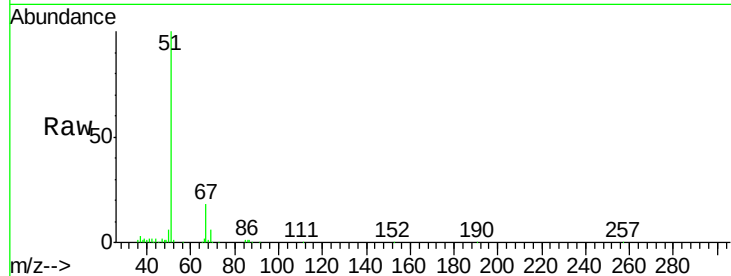
51 100

67 17.5 14.2 21.2

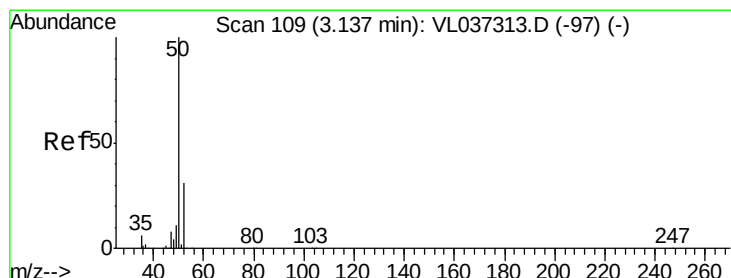
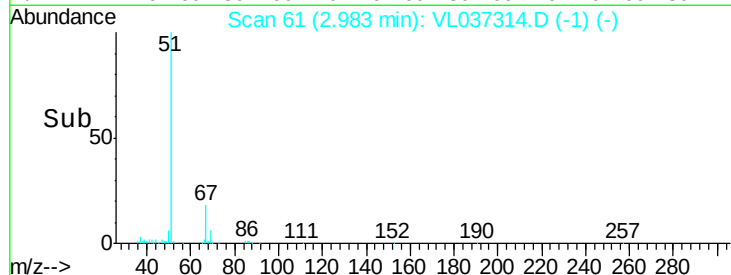
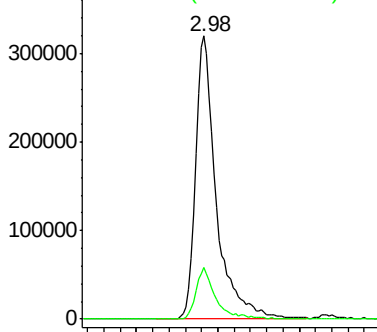
Manual Integrations
APPROVED

MMDadoda

8/5/2021 1:39:48 PM



Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 2.280 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.00 min

Lab File: VL037314.D

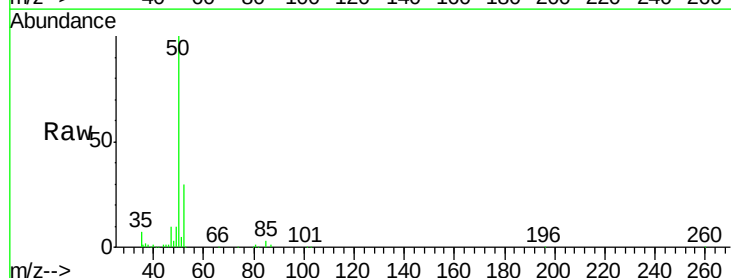
Acq: 4 Aug 2021 18:05

Tgt Ion: 50 Resp: 210943

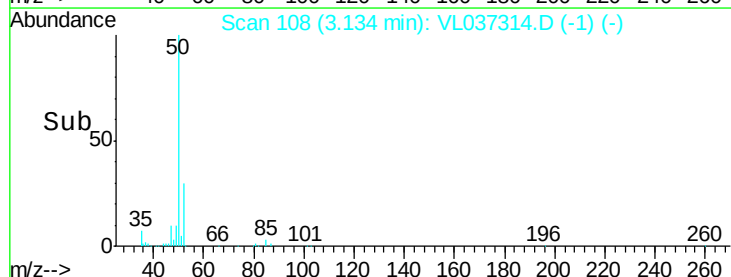
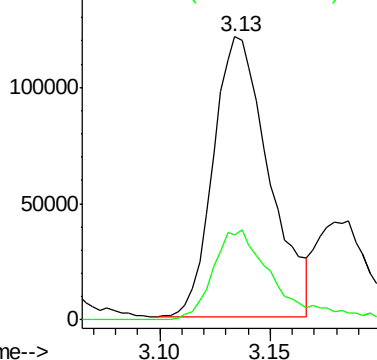
Ion Ratio Lower Upper

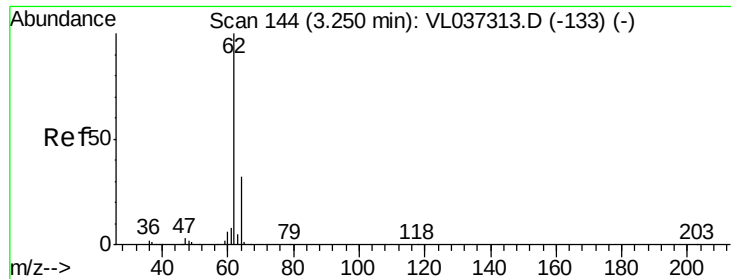
50 100

52 30.2 25.1 37.7



Abundance Ion 50.10 (49.80 to 50.80): VL0
Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 2.210 ppbv

RT: 3.25 min Scan# 145

Delta R.T. 0.00 min

Lab File: VL037314.D

Acq: 4 Aug 2021 18:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 62 Resp: 223081

Ion Ratio Lower Upper

62 100

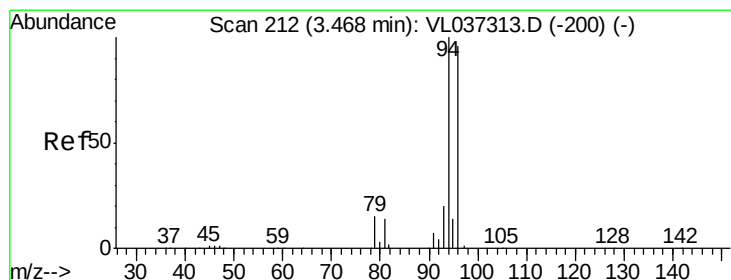
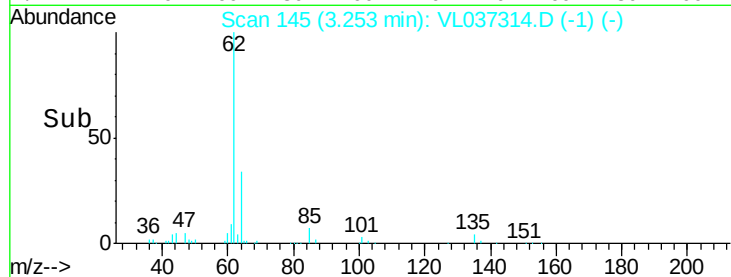
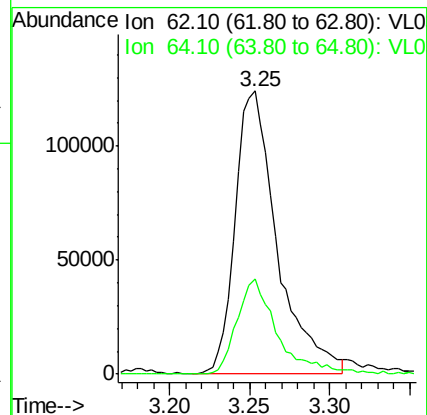
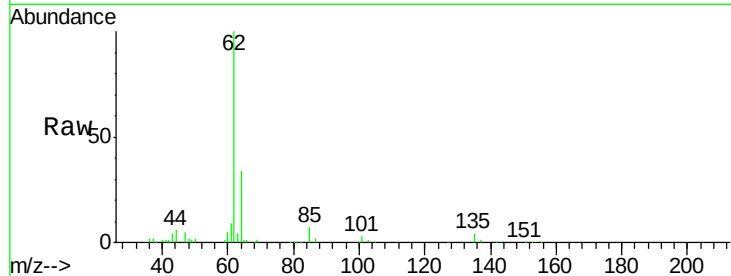
64 33.7 25.7 38.5

Manual Integrations

APPROVED

MMDadoda

8/5/2021 1:39:48 PM



#6

Bromomethane

Concen: 2.500 ppbv

RT: 3.47 min Scan# 212

Delta R.T. -0.00 min

Lab File: VL037314.D

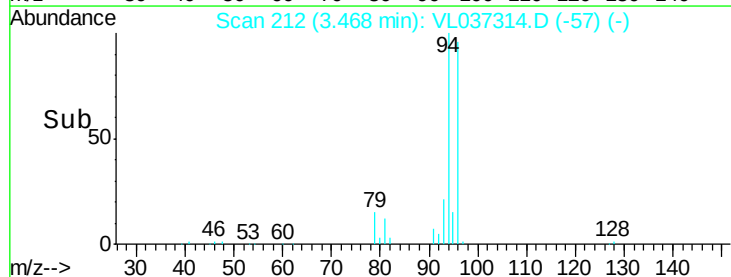
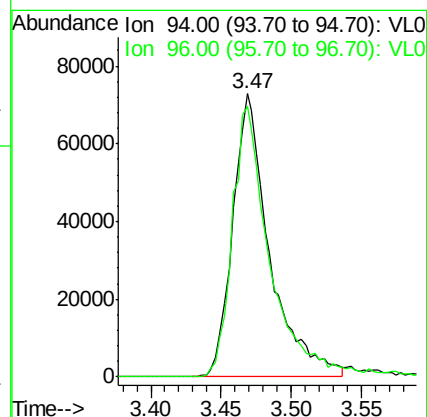
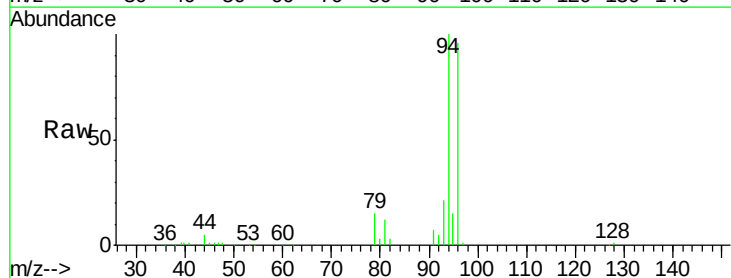
Acq: 4 Aug 2021 18:05

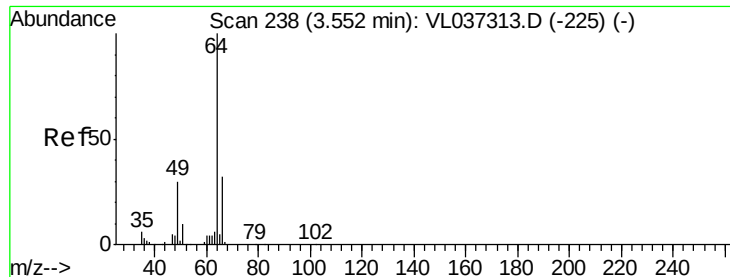
Tgt Ion: 94 Resp: 133058

Ion Ratio Lower Upper

94 100

96 95.6 76.7 115.1





#7

Chloroethane

Concen: 2.493 ppbv

RT: 3.55 min Scan# 238

Delta R.T. -0.00 min

Lab File: VL037314.D

Acq: 4 Aug 2021 18:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 64 Resp: 77790

Ion Ratio Lower Upper

64 100

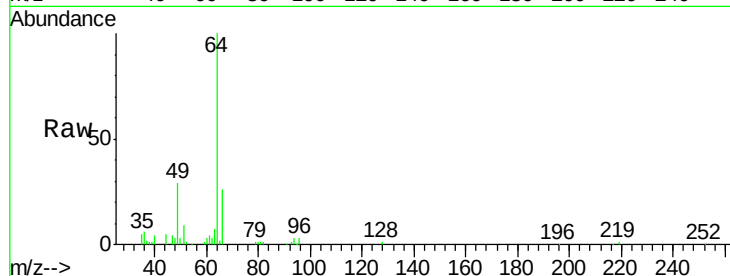
66 25.9 25.5 38.3

Manual Integrations

APPROVED

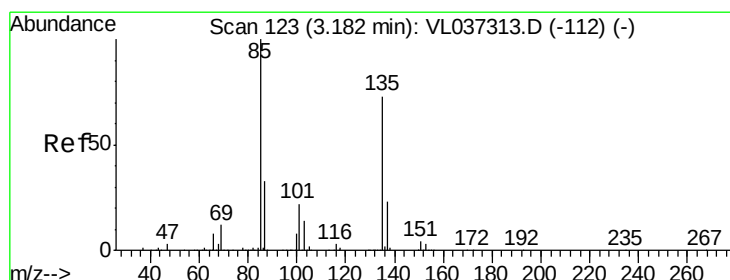
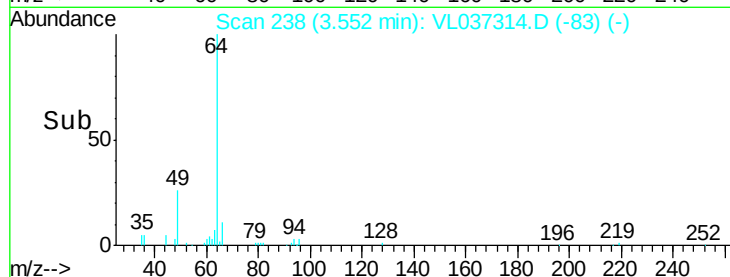
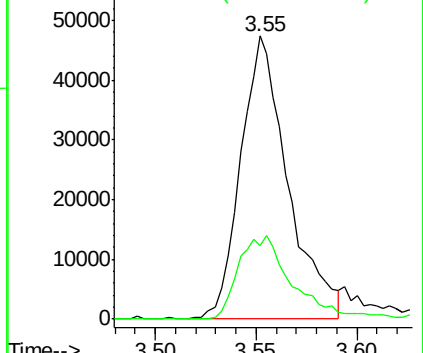
MMDadoda

8/5/2021 1:39:48 PM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 2.341 ppbv

RT: 3.18 min Scan# 123

Delta R.T. -0.00 min

Lab File: VL037314.D

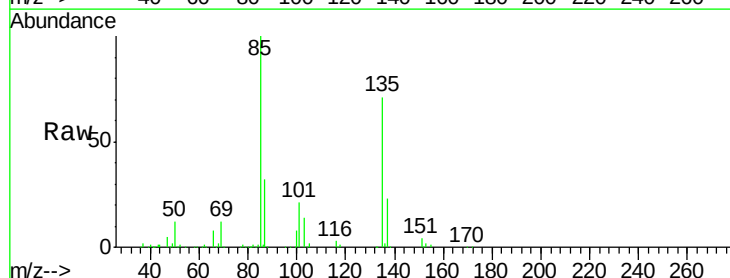
Acq: 4 Aug 2021 18:05

Tgt Ion: 85 Resp: 553465

Ion Ratio Lower Upper

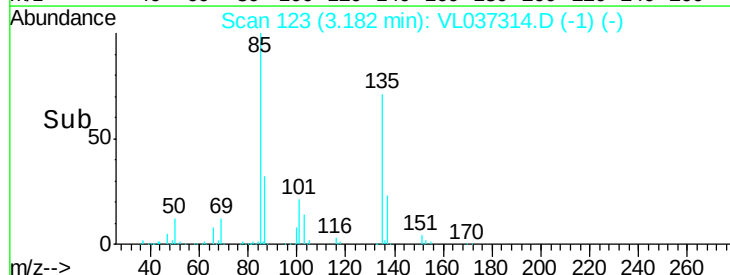
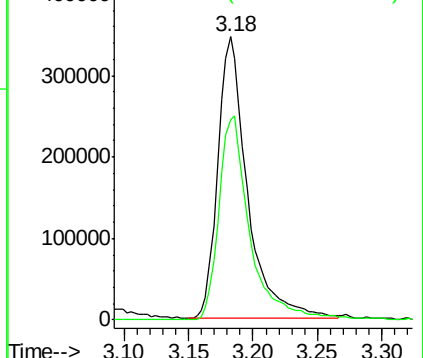
85 100

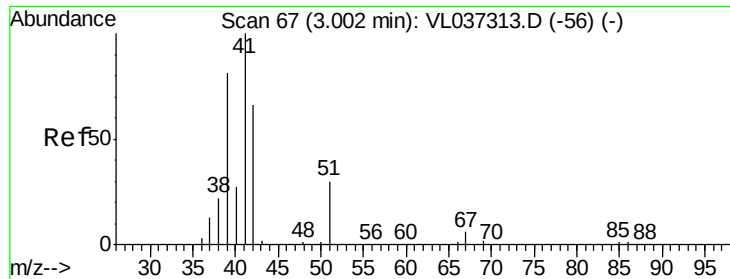
135 76.1 60.6 91.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 2.145 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.00 min

Lab File: VL037314.D

Acq: 4 Aug 2021 18:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 41 Resp: 198699

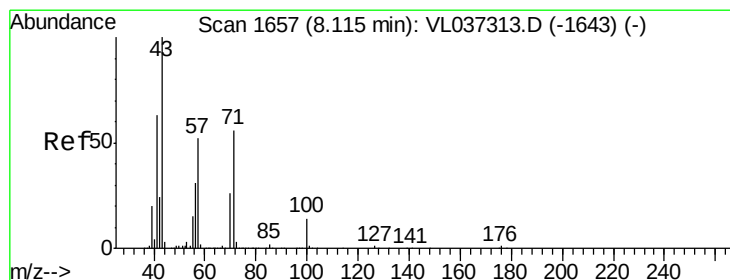
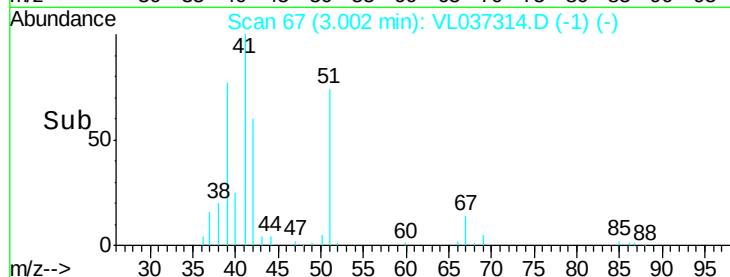
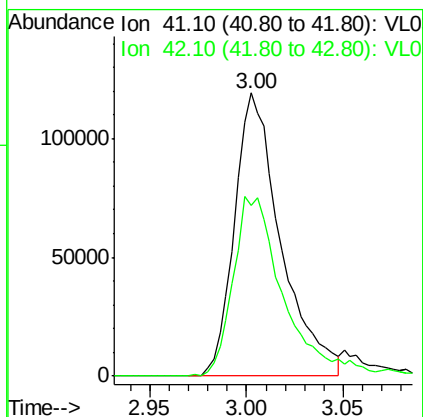
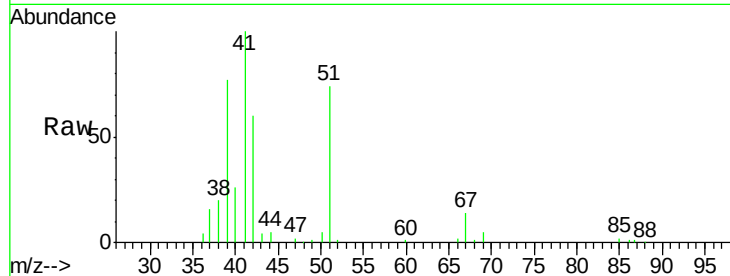
Ion Ratio Lower Upper

41 100

42 70.4 53.8 80.8

Manual Integrations
APPROVED

MMDadoda
8/5/2021 1:39:48 PM



#10

Heptane

Concen: 2.240 ppbv

RT: 8.11 min Scan# 1657

Delta R.T. -0.00 min

Lab File: VL037314.D

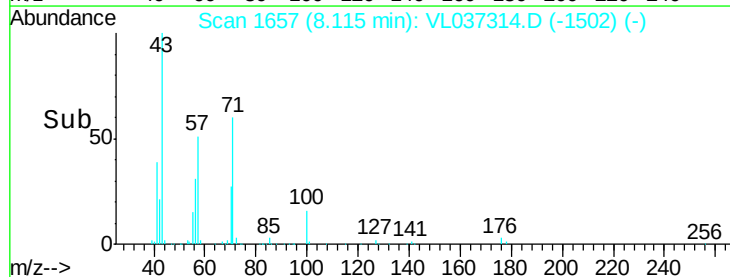
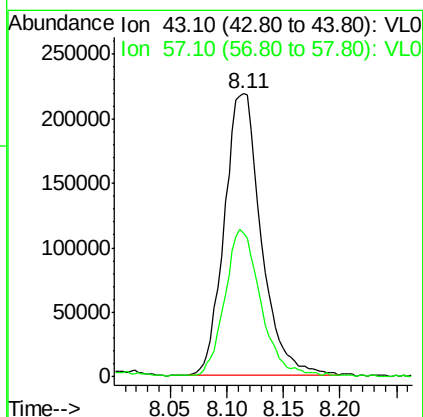
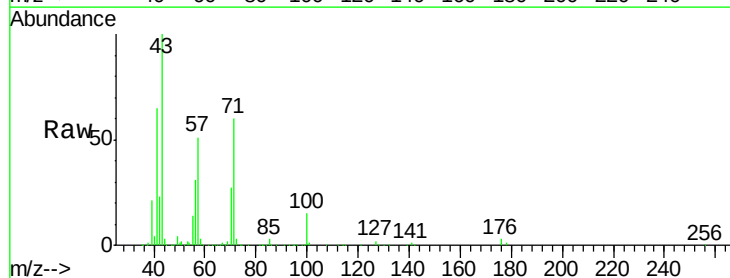
Acq: 4 Aug 2021 18:05

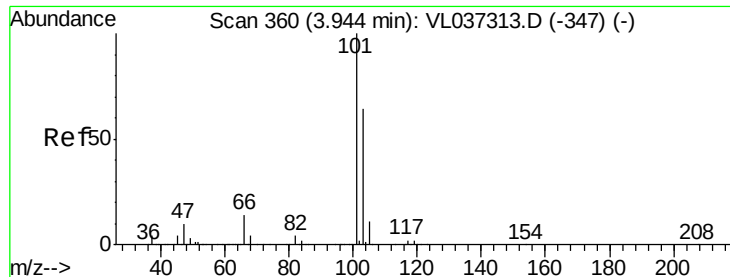
Tgt Ion: 43 Resp: 495011

Ion Ratio Lower Upper

43 100

57 51.5 42.4 63.6





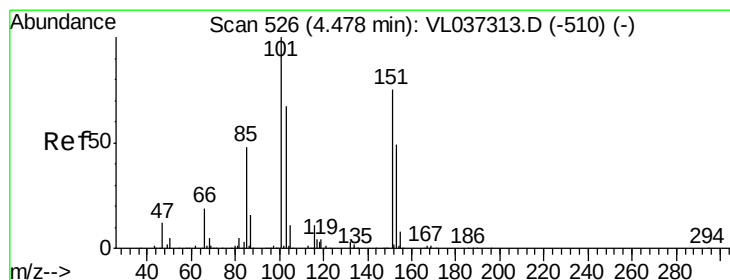
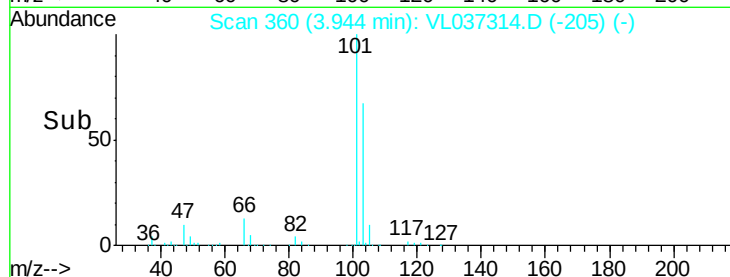
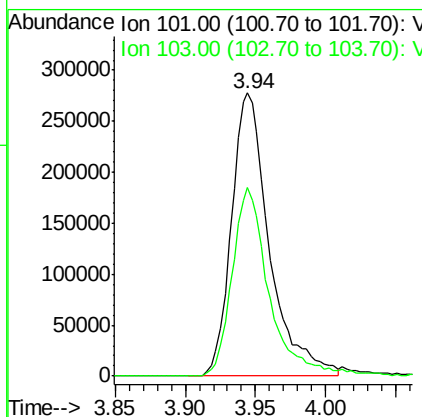
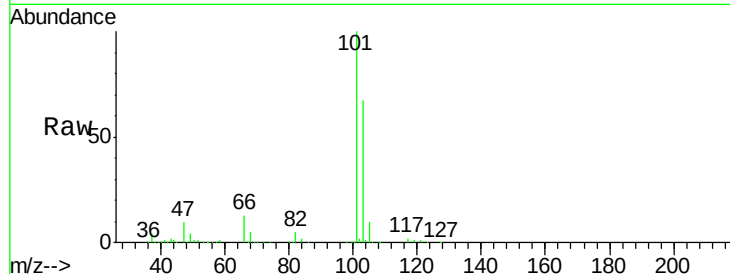
#11
 Trichlorofluoromethane
 Concen: 2.199 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. -0.00 min
 Lab File: VL037314.D
 Acq: 4 Aug 2021 18:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
101	100		
103	66.5	51.6	77.4

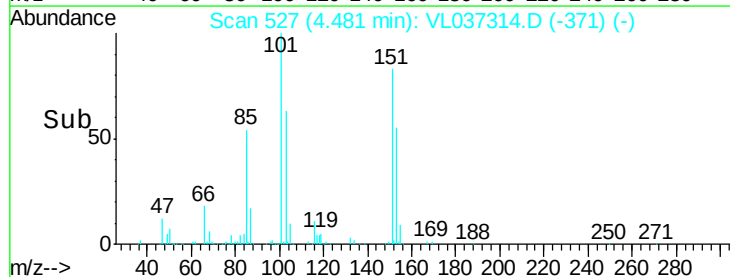
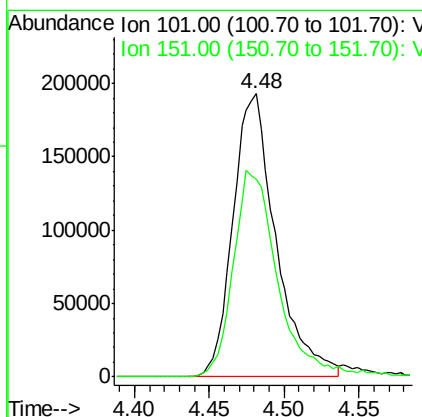
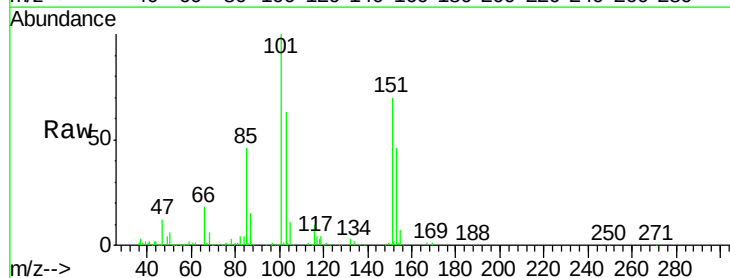
Manual Integrations
 APPROVED

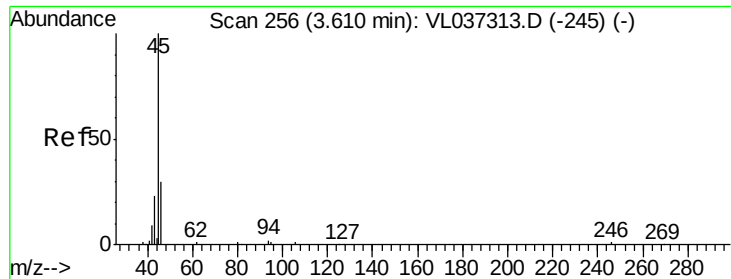
MMDadoda
 8/5/2021 1:39:48 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 2.224 ppbv
 RT: 4.48 min Scan# 527
 Delta R.T. 0.00 min
 Lab File: VL037314.D
 Acq: 4 Aug 2021 18:05

Tgt Ion	Ratio	Lower	Upper
101	100		
151	76.4	60.6	91.0





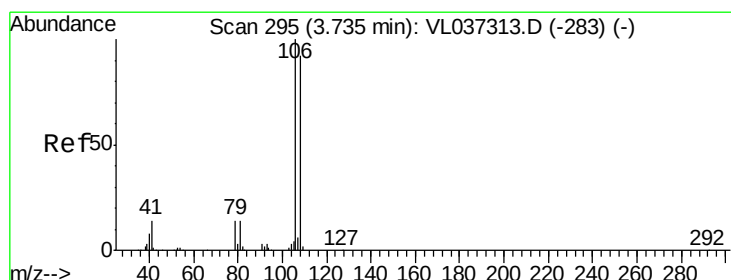
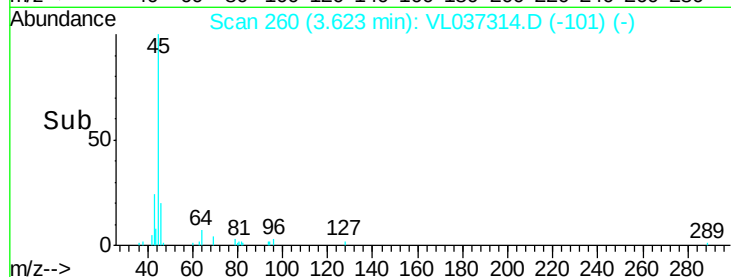
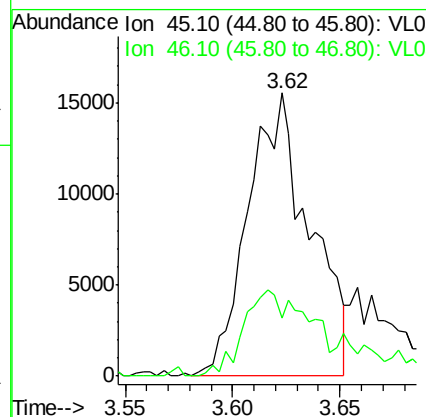
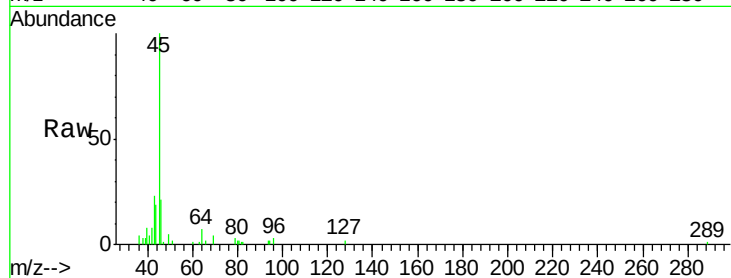
#13
Ethanol
Concen: 3.392 ppbv m
RT: 3.62 min Scan# 260
Delta R.T. 0.01 min
Lab File: VL037314.D
Acq: 4 Aug 2021 18:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	45	46	Ratio	100	48.6	Resp	31076	Lower	Upper
Ion	45	46	Ratio	100	48.6	Resp	31076	Lower	Upper
								16.6	66.4

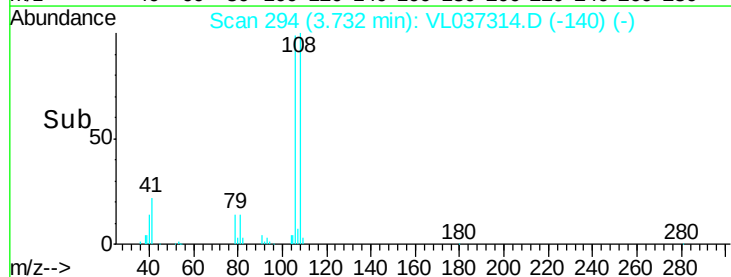
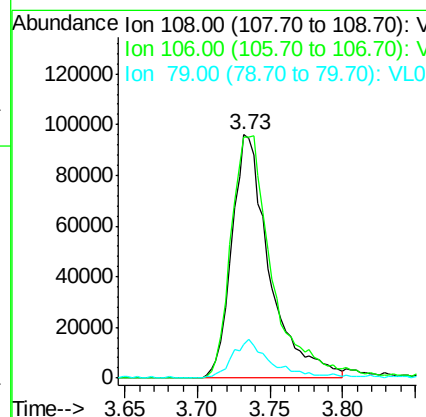
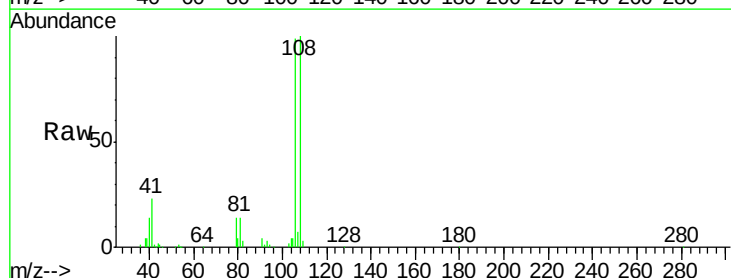
Manual Integrations
APPROVED

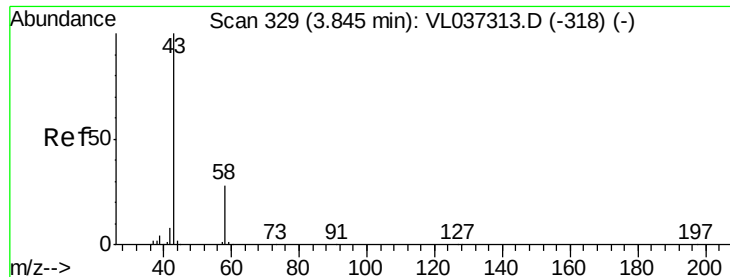
MMDadoda
8/5/2021 1:39:48 PM



#14
Bromoethene
Concen: 2.266 ppbv
RT: 3.73 min Scan# 294
Delta R.T. -0.00 min
Lab File: VL037314.D
Acq: 4 Aug 2021 18:05

Tgt Ion	108	106	79	Ratio	100	110.3	15.9	Resp	173479	Lower	Upper
Ion	108	106	79	Ratio	100	110.3	15.9	Resp	173479	Lower	Upper
										86.9	130.3
										12.3	18.5





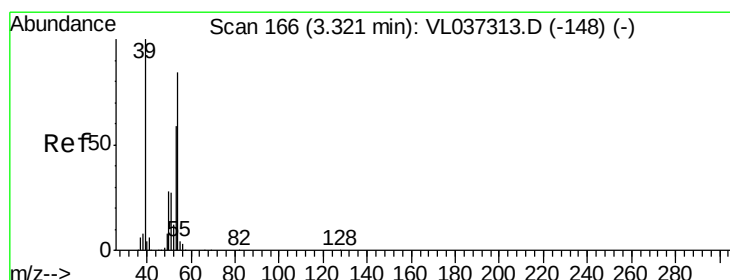
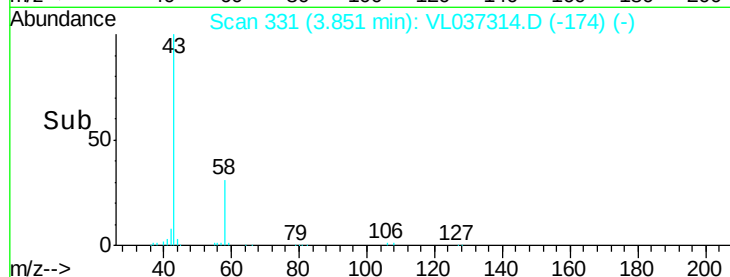
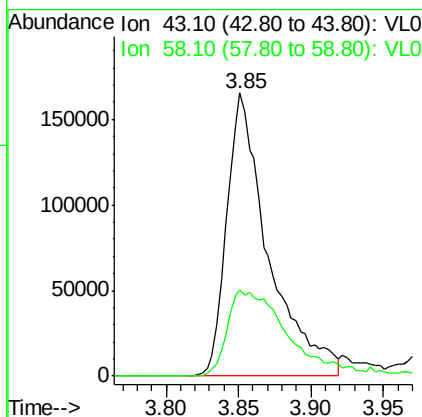
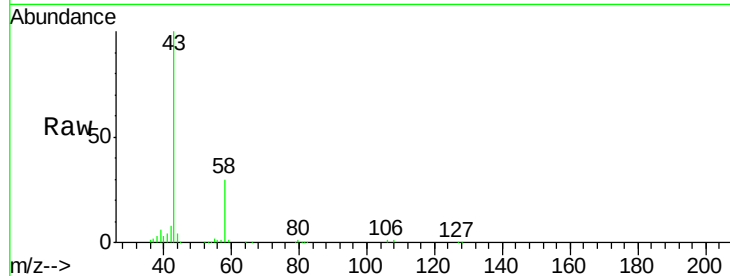
#15
Acetone
Concen: 2.346 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.01 min
Lab File: VL037314.D
Acq: 4 Aug 2021 18:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
43	100		
58	44.6	25.3	37.9#

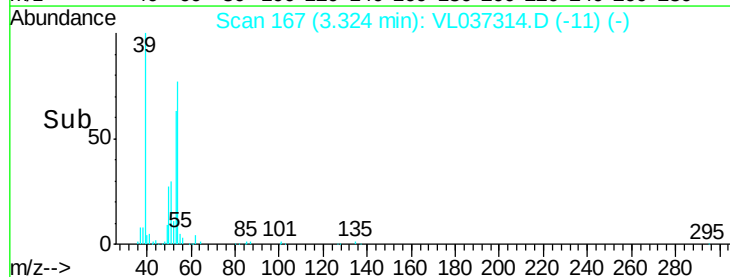
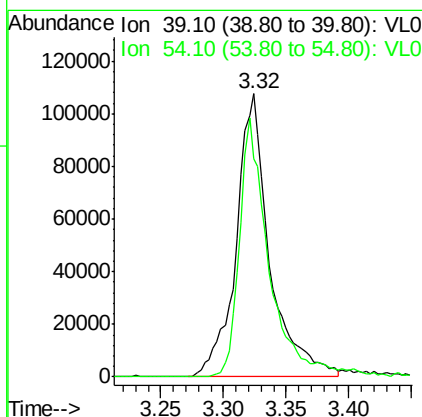
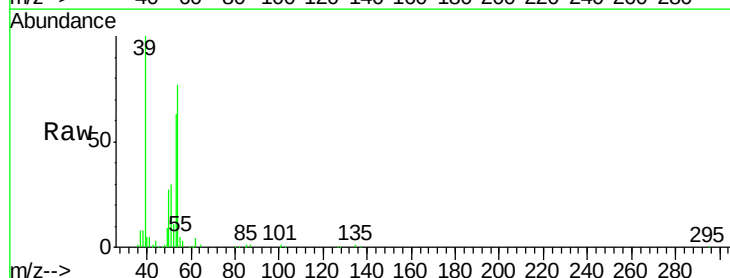
Manual Integrations
APPROVED

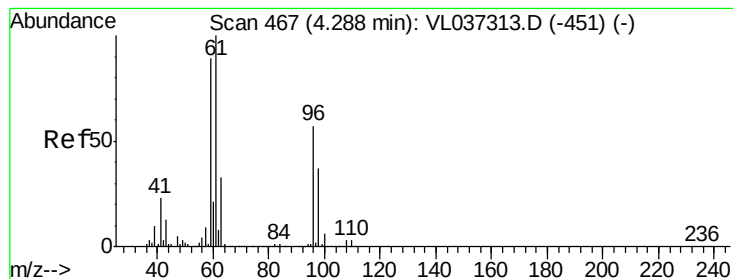
MMDadoda
8/5/2021 1:39:48 PM



#16
1,3-Butadiene
Concen: 2.236 ppbv
RT: 3.32 min Scan# 167
Delta R.T. 0.00 min
Lab File: VL037314.D
Acq: 4 Aug 2021 18:05

Tgt Ion	Ratio	Lower	Upper
39	100		
54	82.1	66.1	99.1





#17

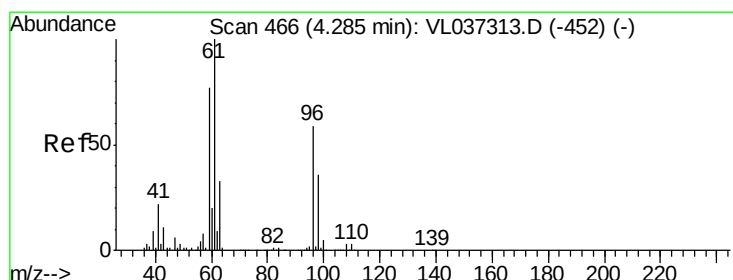
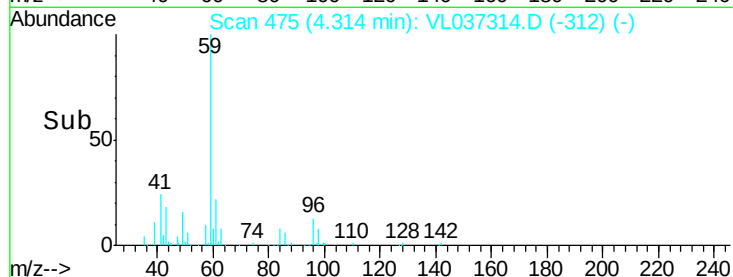
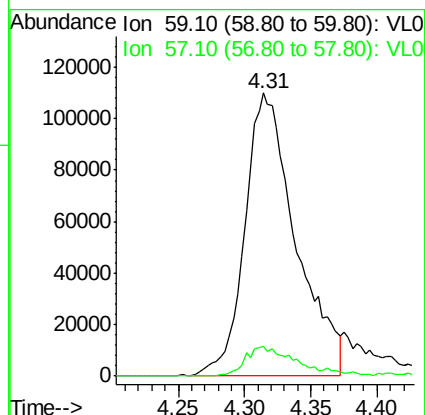
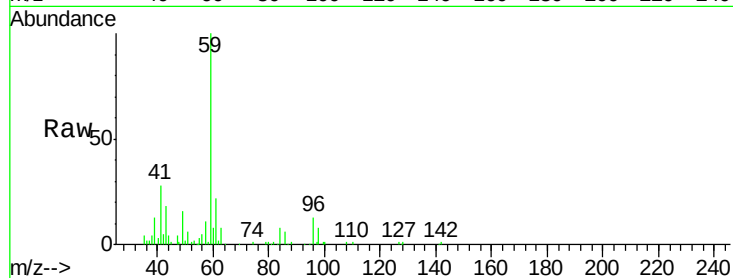
tert-Butyl alcohol
Concen: 2.681 ppbv
RT: 4.31 min Scan# 475
Delta R.T. 0.03 min
Lab File: VL037314.D
Acq: 4 Aug 2021 18:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 59 Resp: 294584
Ion Ratio Lower Upper
59 100
57 11.5 8.6 12.8

Manual Integrations
APPROVED

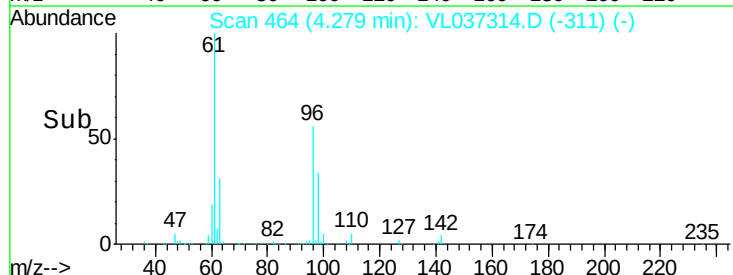
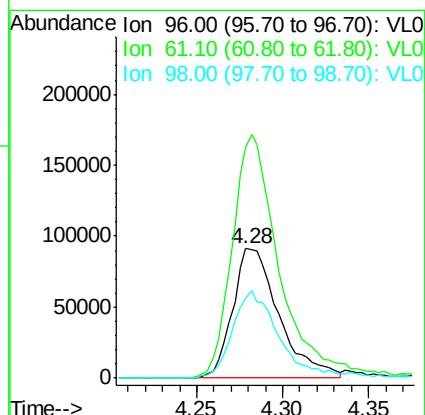
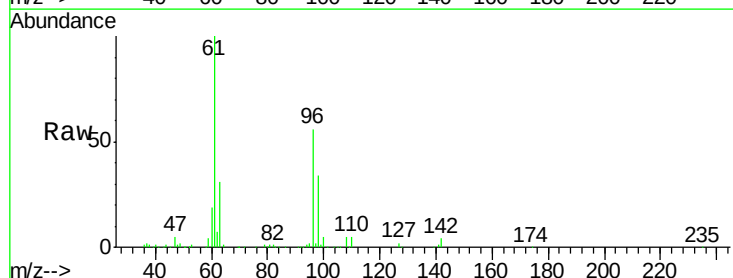
MMDadoda
8/5/2021 1:39:48 PM

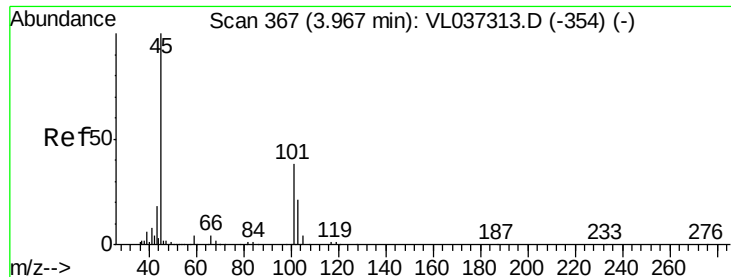


#18

1,1-Dichloroethene
Concen: 2.186 ppbv
RT: 4.28 min Scan# 464
Delta R.T. -0.01 min
Lab File: VL037314.D
Acq: 4 Aug 2021 18:05

Tgt Ion: 96 Resp: 171624
Ion Ratio Lower Upper
96 100
61 178.0 135.7 203.5
98 61.5 48.6 72.8





#19

Isopropyl Alcohol

Concen: 2.252 ppbv

RT: 3.99 min Scan# 373

Delta R.T. 0.02 min

Lab File: VL037314.D

Acq: 4 Aug 2021 18:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 45 Resp: 159256

Ion Ratio Lower Upper

45 100

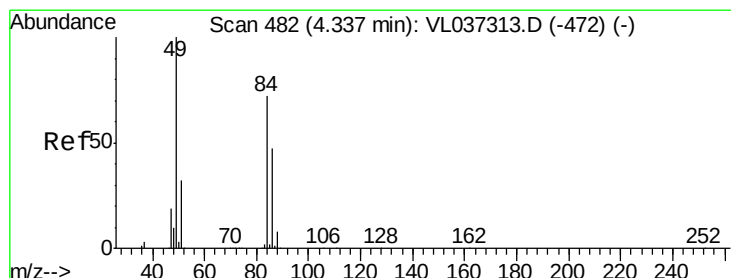
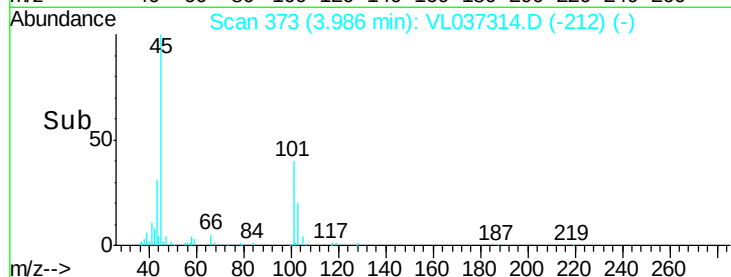
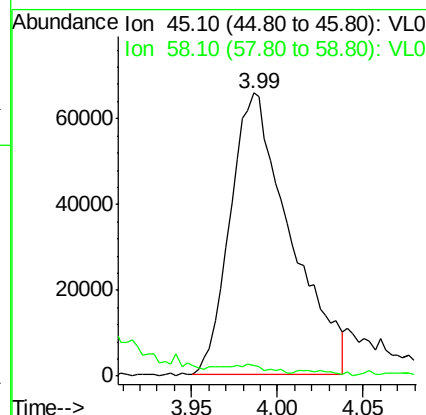
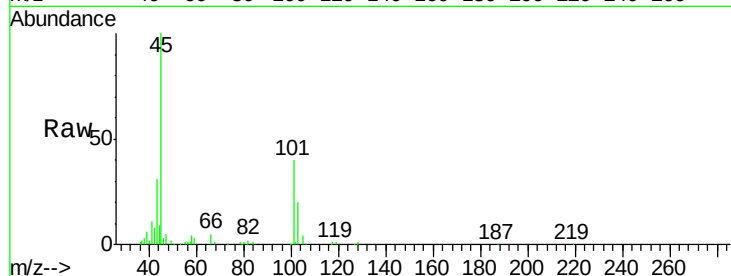
58 5.0 1.8 2.8#

Manual Integrations

APPROVED

MMDadoda

8/5/2021 1:39:48 PM



#20

Methylene Chloride

Concen: 2.442 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.00 min

Lab File: VL037314.D

Acq: 4 Aug 2021 18:05

Tgt Ion: 84 Resp: 283240

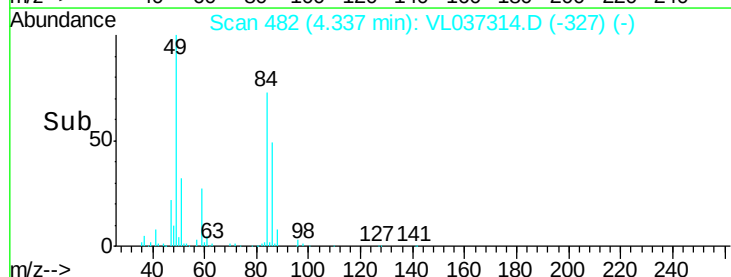
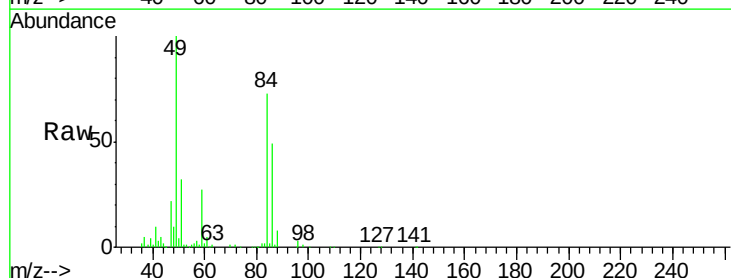
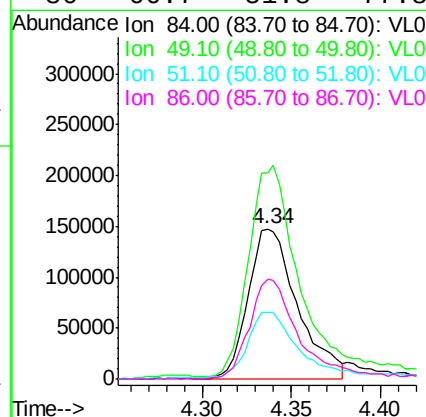
Ion Ratio Lower Upper

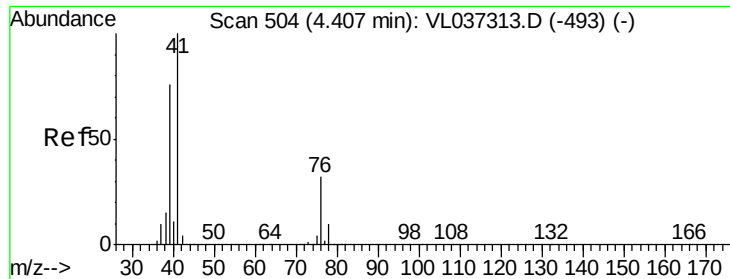
84 100

49 135.6 110.4 165.6

51 43.8 35.8 53.6

86 66.7 51.8 77.8





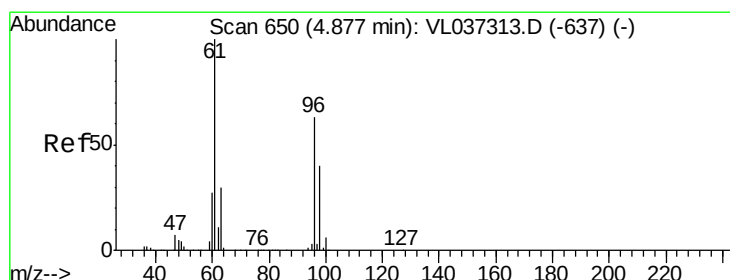
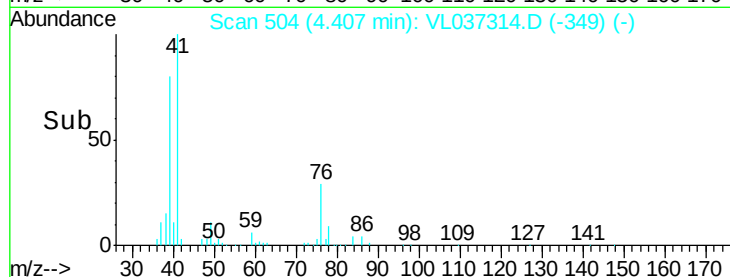
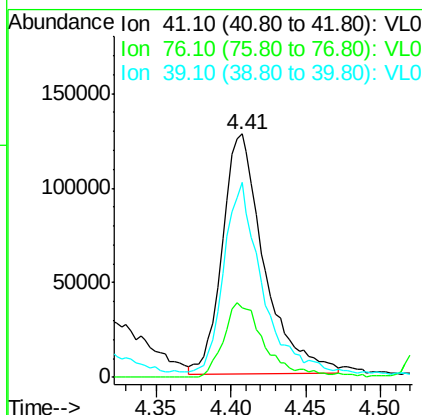
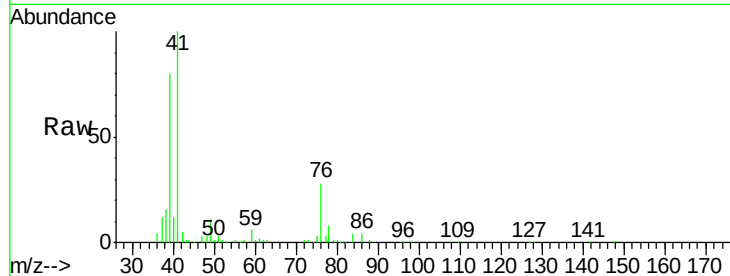
#21
Allvl Chloride
Concen: 2.606 ppbv
RT: 4.41 min Scan# 504
Delta R.T. -0.00 min
Lab File: VL037314.D
Acq: 4 Aug 2021 18:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
41	100		
76	30.9	25.7	38.5
39	80.9	59.0	88.4

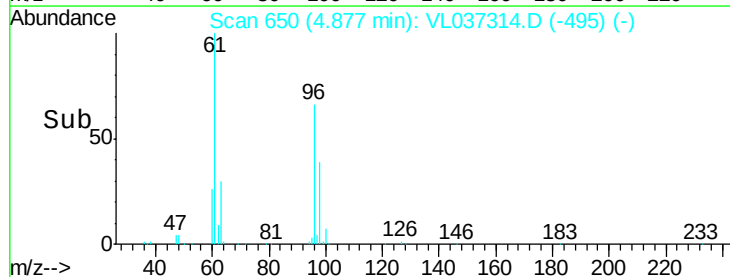
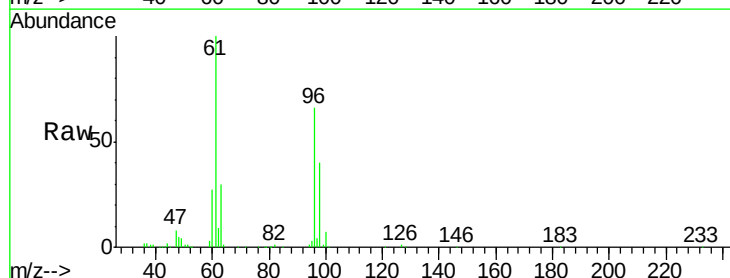
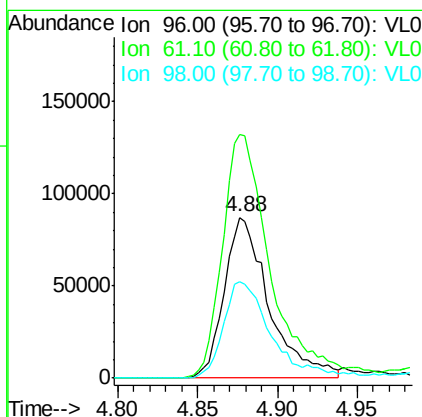
Manual Integrations
APPROVED

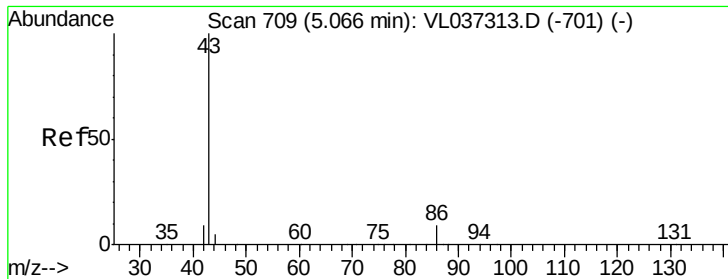
MMDadoda
8/5/2021 1:39:48 PM



#22
trans-1,2-Dichloroethene
Concen: 2.283 ppbv
RT: 4.88 min Scan# 650
Delta R.T. -0.00 min
Lab File: VL037314.D
Acq: 4 Aug 2021 18:05

Tgt Ion	Ratio	Lower	Upper
96	100		
61	151.2	126.7	190.1
98	60.1	50.9	76.3





#23

Vinyl Acetate

Concen: 2.316 ppbv

RT: 5.07 min Scan# 710

Delta R.T. 0.00 min

Lab File: VL037314.D

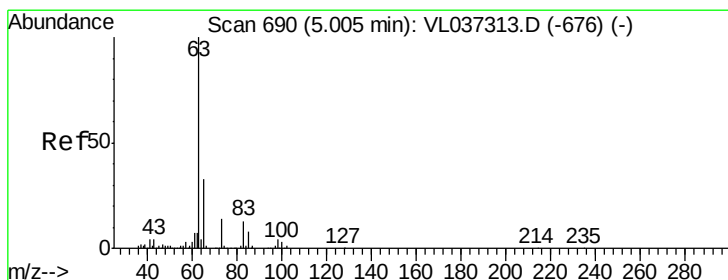
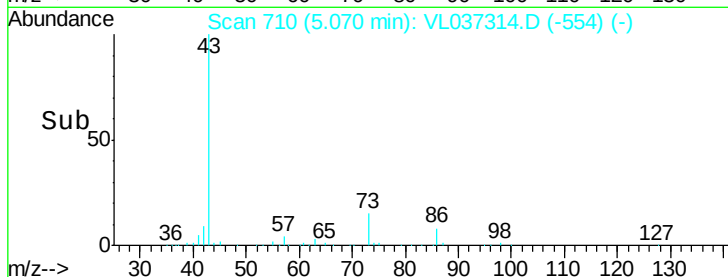
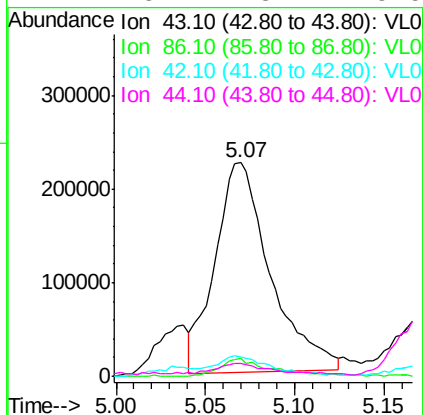
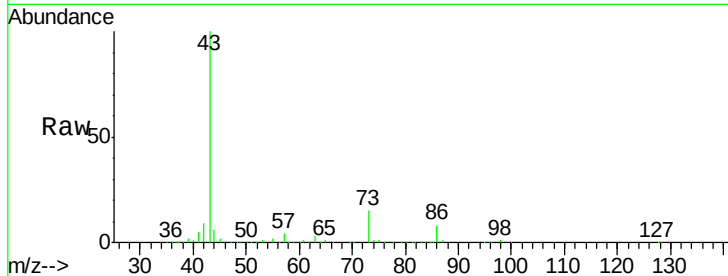
Acq: 4 Aug 2021 18:05

Tot Ion	43	Resp	486311
Ion	Ratio	Lower	Upper
43	100		
86	9.0	6.2	9.2
42	8.7	7.7	11.5
44	5.4	3.7	5.5

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Manual Integrations
APPROVED

MMDadoda
8/5/2021 1:39:48 PM



#24

1,1-Dichloroethane

Concen: 2.229 ppbv

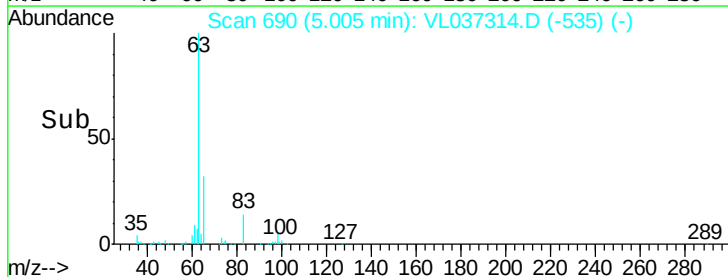
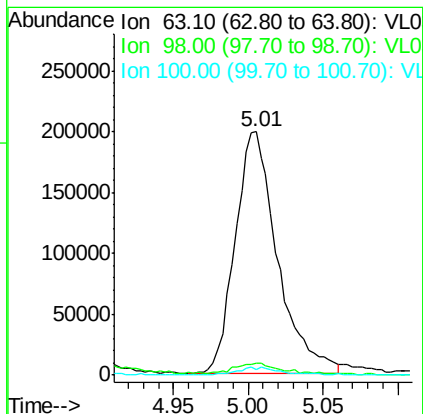
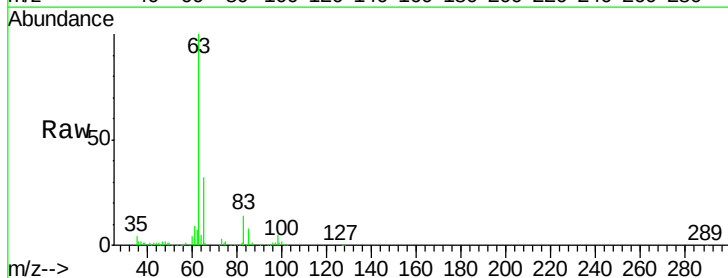
RT: 5.01 min Scan# 690

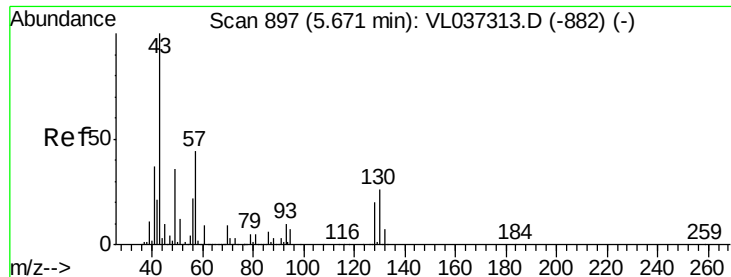
Delta R.T. -0.00 min

Lab File: VL037314.D

Acq: 4 Aug 2021 18:05

Tgt Ion	63	Resp	391008
Ion	Ratio	Lower	Upper
63	100		
98	4.1	2.4	7.2
100	2.0	1.5	4.4





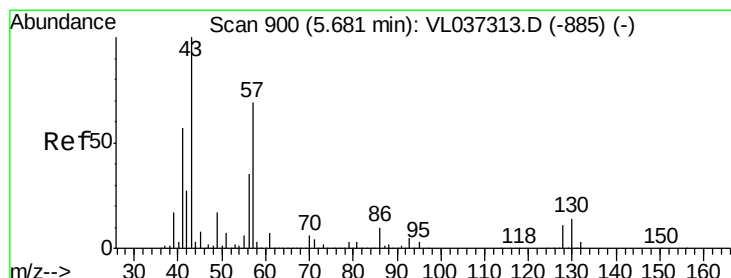
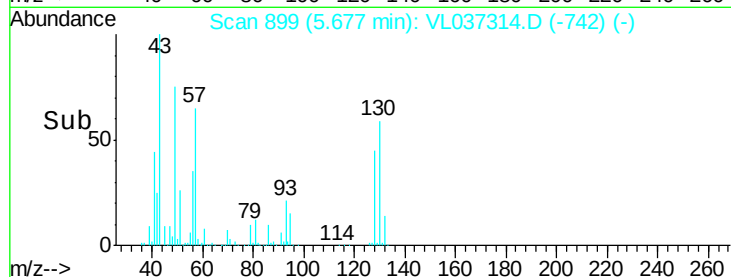
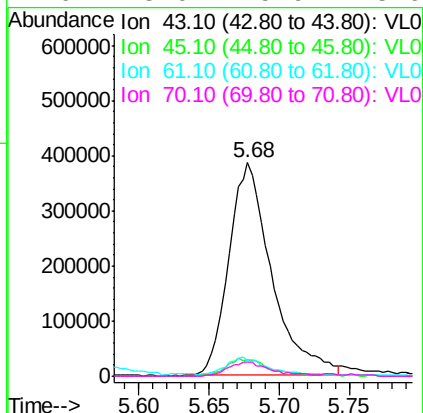
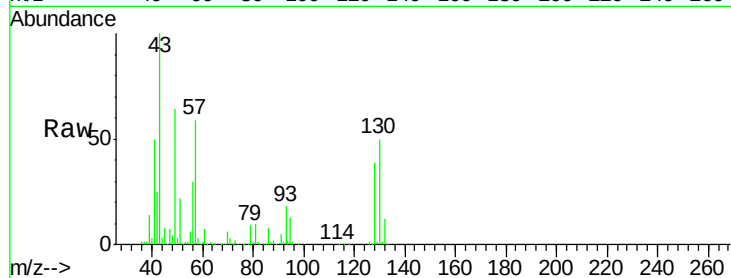
#25
Ethyl Acetate
Concen: 2.537 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.01 min
Lab File: VL037314.D
Acq: 4 Aug 2021 18:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100				
45	9.0	7.8	11.8		
61	8.5	8.6	12.8		
70	8.0	5.9	8.9		

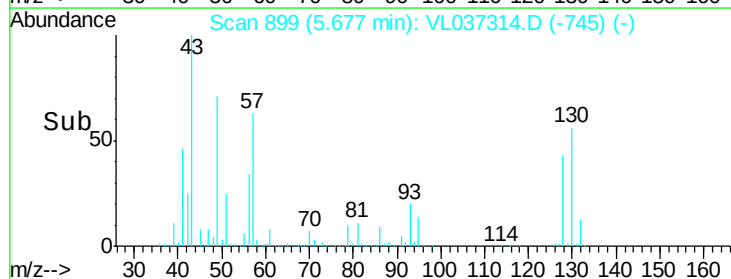
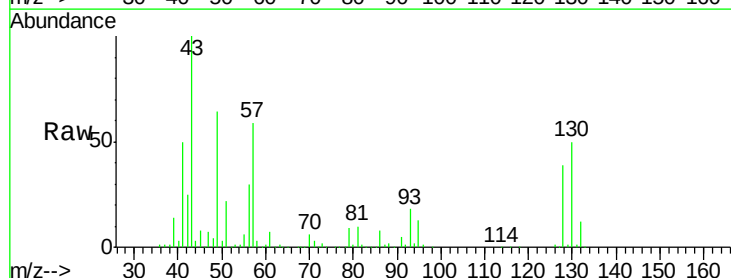
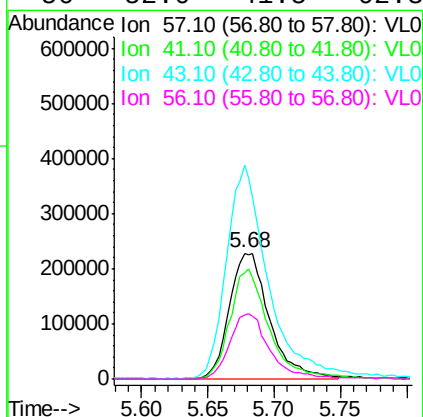
Manual Integrations
APPROVED

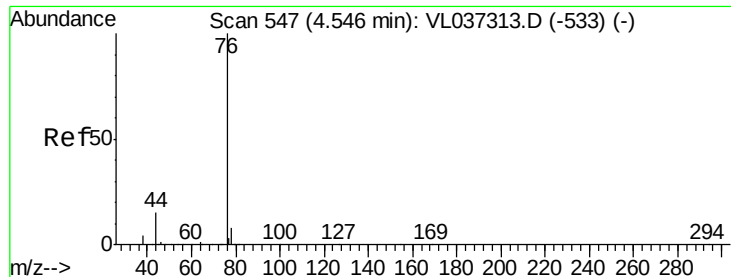
MMDadoda
8/5/2021 1:39:48 PM



#26
Hexane
Concen: 2.354 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.00 min
Lab File: VL037314.D
Acq: 4 Aug 2021 18:05

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	86.3	67.5	101.3		
43	181.6	163.0	244.4		
56	52.0	41.5	62.3		





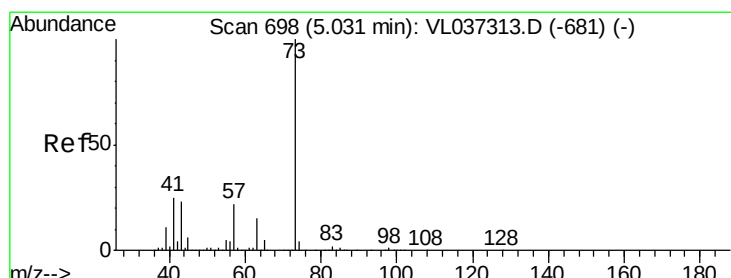
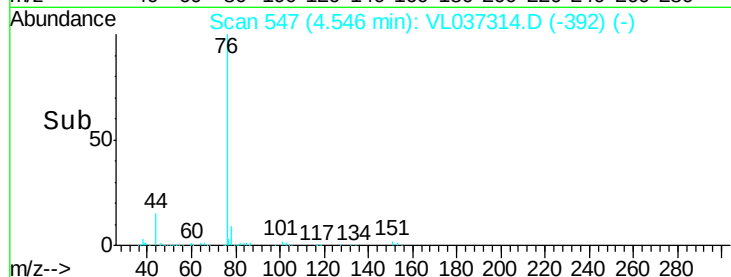
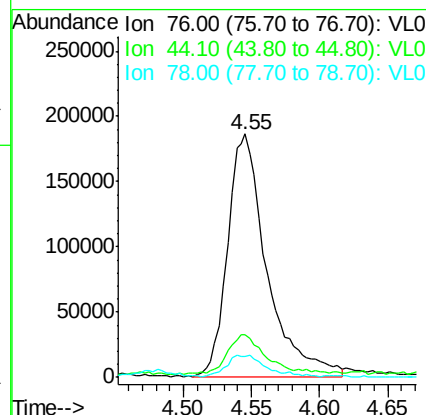
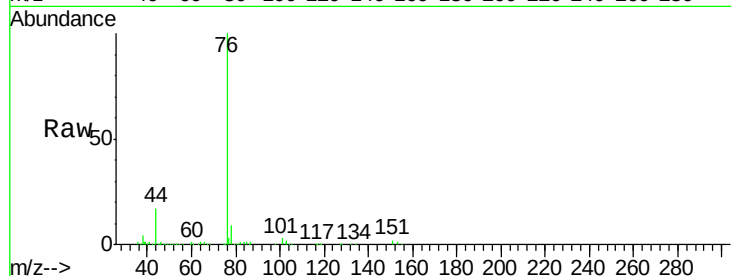
#27
Carbon Disulfide
Concen: 2.255 ppbv
RT: 4.55 min Scan# 547
Delta R.T. -0.00 min
Lab File: VL037314.D
Acq: 4 Aug 2021 18:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion:	76	Resp:	370446
Ion	Ratio	Lower	Upper
76	100		
44	16.4	13.1	19.7
78	10.2	8.0	12.0

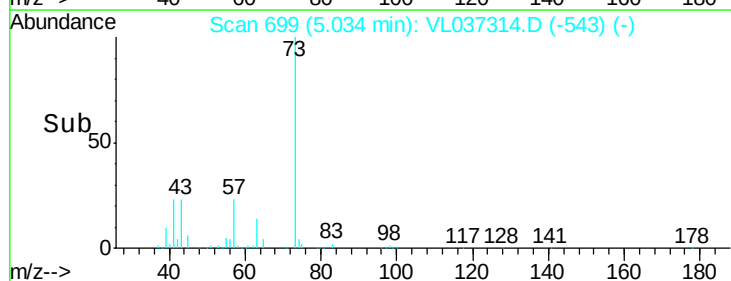
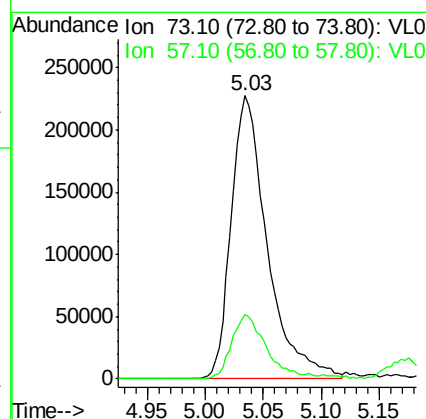
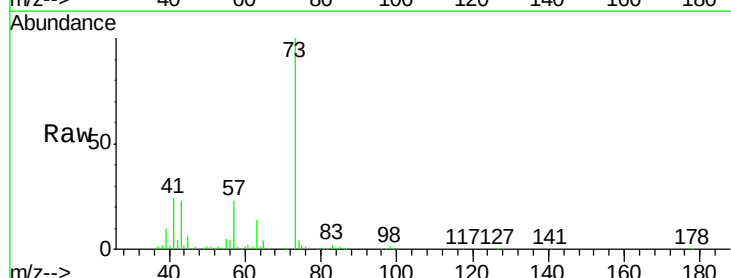
Manual Integrations
APPROVED

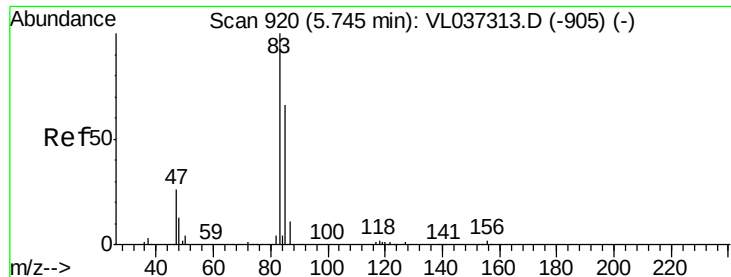
MMDadoda
8/5/2021 1:39:48 PM



#28
Methyl tert-Butyl Ether
Concen: 2.382 ppbv
RT: 5.03 min Scan# 698
Delta R.T. 0.00 min
Lab File: VL037314.D
Acq: 4 Aug 2021 18:05

Tgt Ion:	73	Resp:	490660
Ion	Ratio	Lower	Upper
73	100		
57	22.7	18.2	27.4





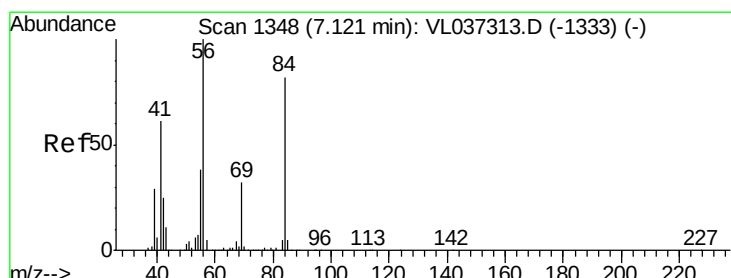
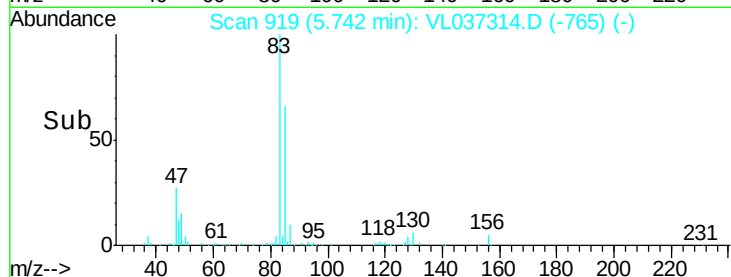
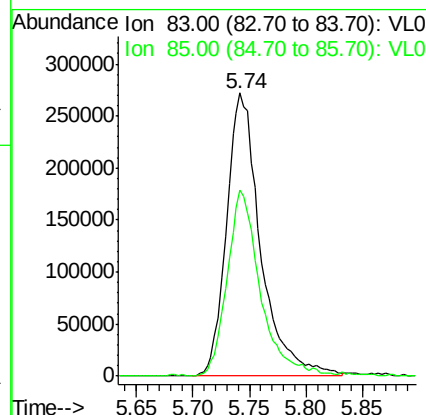
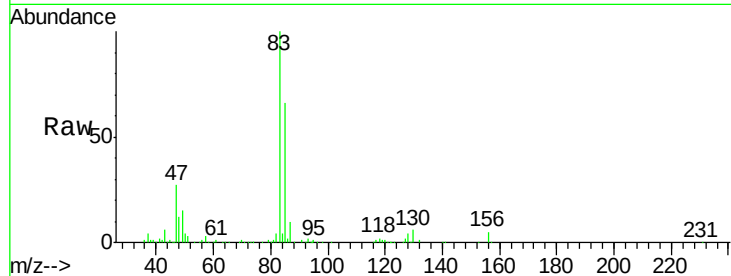
#29
Chloroform
Concen: 2.199 ppbv
RT: 5.74 min Scan# 919
Delta R.T. -0.00 min
Lab File: VL037314.D
Acq: 4 Aug 2021 18:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	83	Resp	568623
Ion Ratio	100	Lower	Upper
83	100		
85	65.7	52.6	79.0

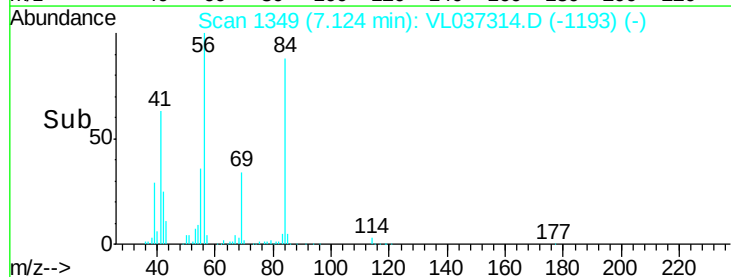
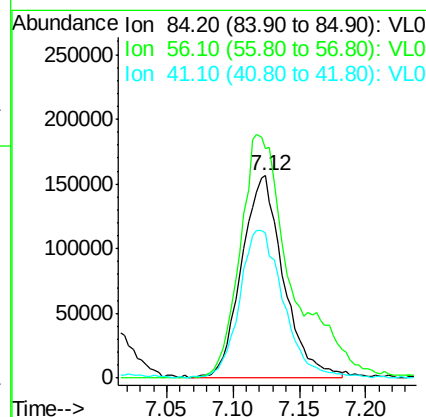
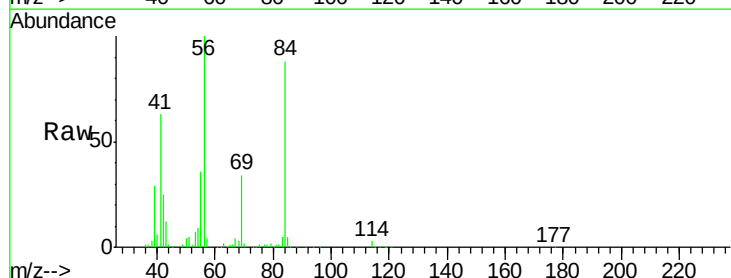
Manual Integrations
APPROVED

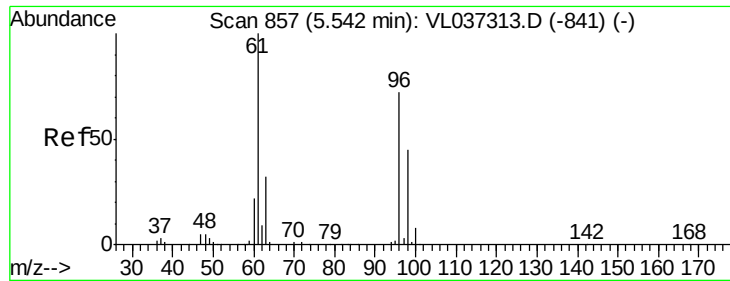
MMDadoda
8/5/2021 1:39:48 PM



#30
Cyclohexane
Concen: 2.453 ppbv
RT: 7.12 min Scan# 1349
Delta R.T. 0.00 min
Lab File: VL037314.D
Acq: 4 Aug 2021 18:05

Tgt Ion	84	Resp	344766
Ion Ratio	100	Lower	Upper
84	100		
56	150.1	105.2	157.8
41	77.1	61.3	91.9





#31

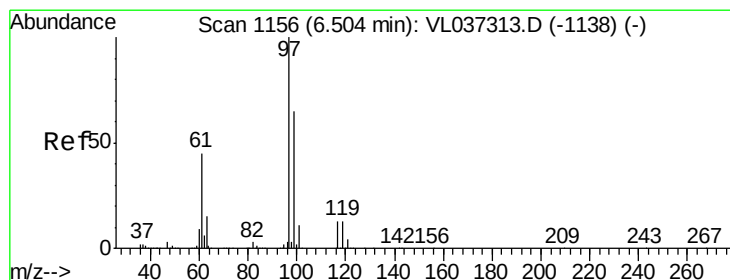
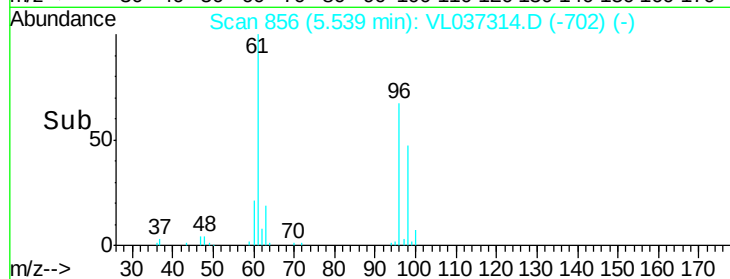
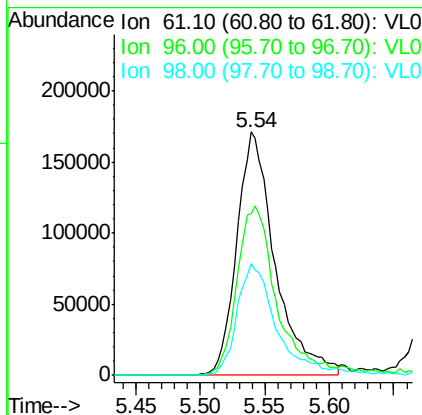
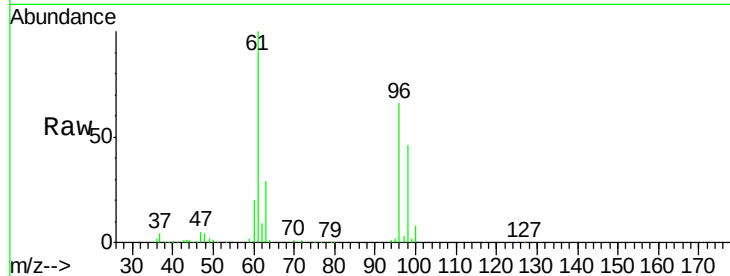
cis-1,2-Dichloroethene
 Concen: 2.482 ppbv
 RT: 5.54 min Scan# 856
 Delta R.T. -0.00 min
 Lab File: VL037314.D
 Acq: 4 Aug 2021 18:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
61	100			
96	66.2	57.4	86.0	
98	46.0	36.3	54.5	

Manual Integrations
 APPROVED

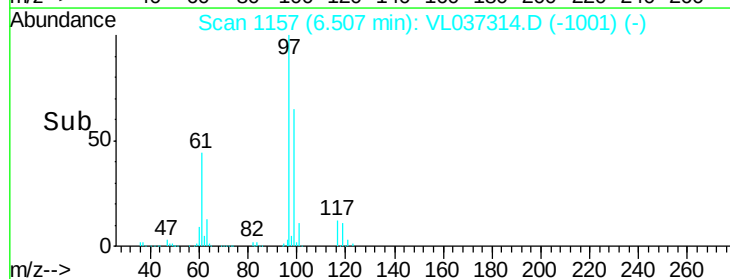
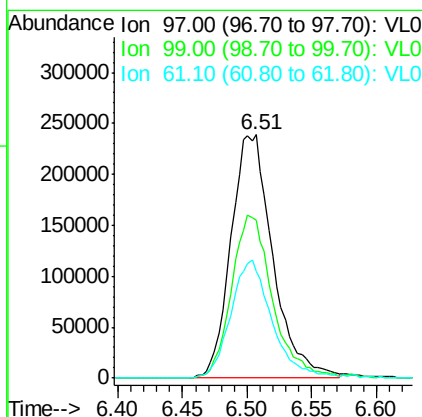
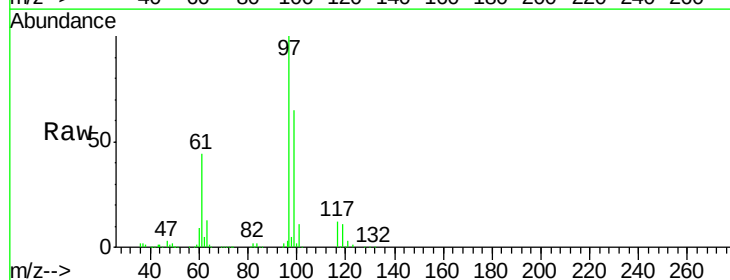
MMDadoda
 8/5/2021 1:39:48 PM

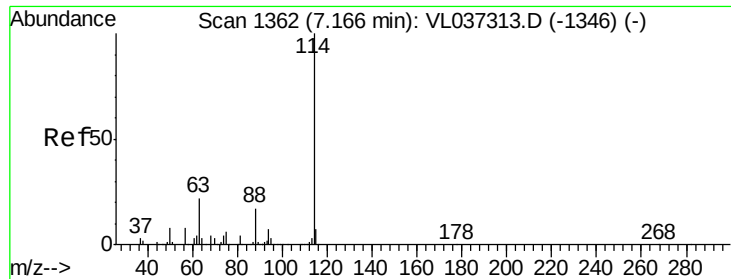


#32

1,1,1-Trichloroethane
 Concen: 2.348 ppbv m
 RT: 6.51 min Scan# 1157
 Delta R.T. 0.00 min
 Lab File: VL037314.D
 Acq: 4 Aug 2021 18:05

Tgt Ion	Ratio	Resp	Lower	Upper
97	100			
99	0.0	52.3	78.5#	
61	47.5	37.2	55.8	





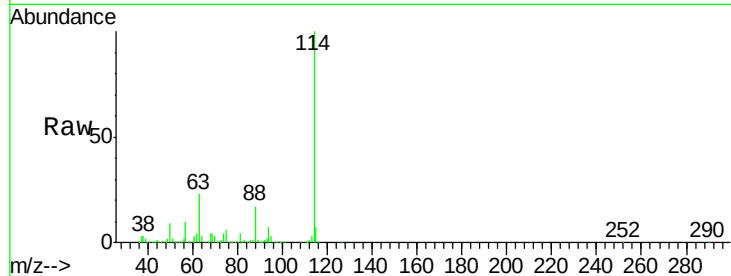
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. -0.00 min
 Lab File: VL037314.D
 Acq: 4 Aug 2021 18:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

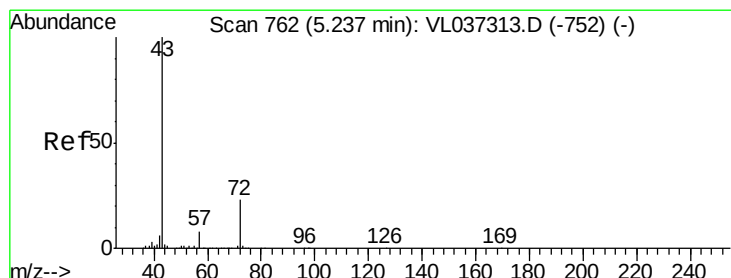
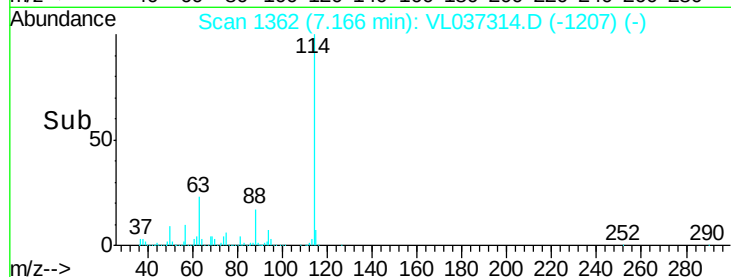
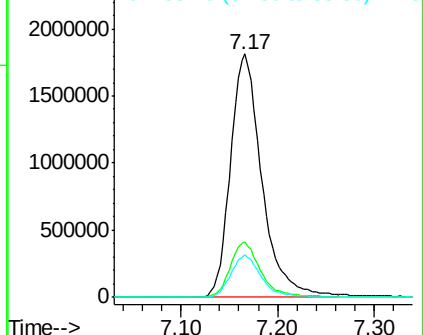
Tot Ion	Ratio	Lower	Upper
114	100		
63	22.6	18.1	27.1
88	17.2	13.8	20.8

Manual Integrations
 APPROVED

MMDadoda
 8/5/2021 1:39:48 PM

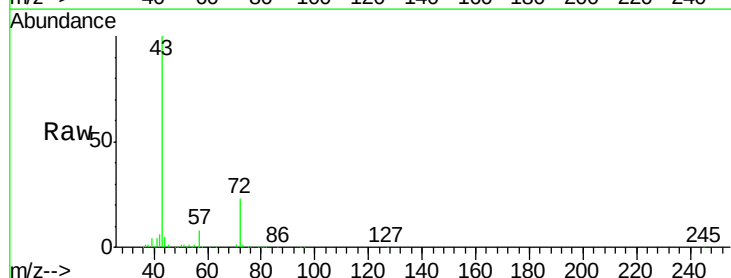


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

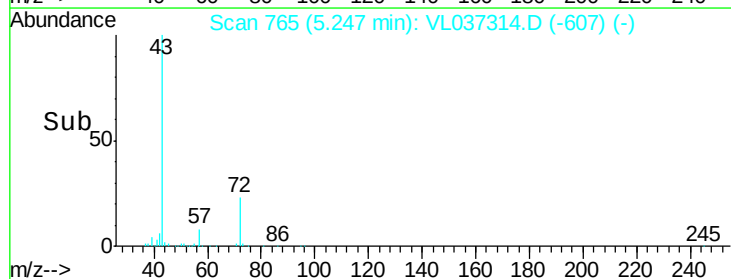
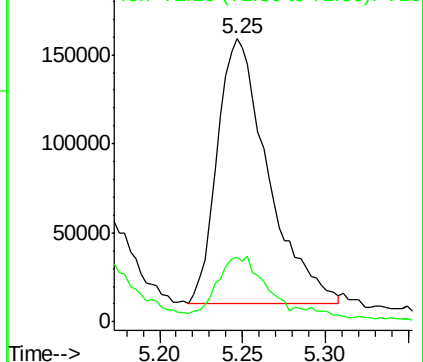


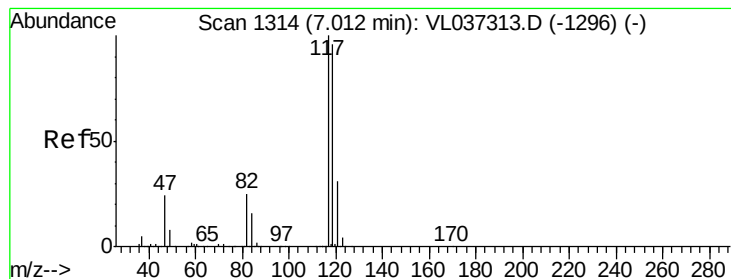
#34
 2-Butanone
 Concen: 2.190 ppbv
 RT: 5.25 min Scan# 765
 Delta R.T. 0.01 min
 Lab File: VL037314.D
 Acq: 4 Aug 2021 18:05

Tgt Ion	Ratio	Lower	Upper
43	100		
72	29.5	20.3	30.5



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 2.164 ppbv

RT: 7.01 min Scan# 1313

Delta R.T. -0.00 min

Lab File: VL037314.D

Acq: 4 Aug 2021 18:05

Instrument :

MSVOA_L

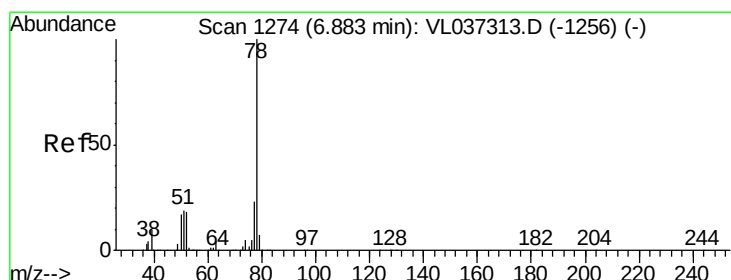
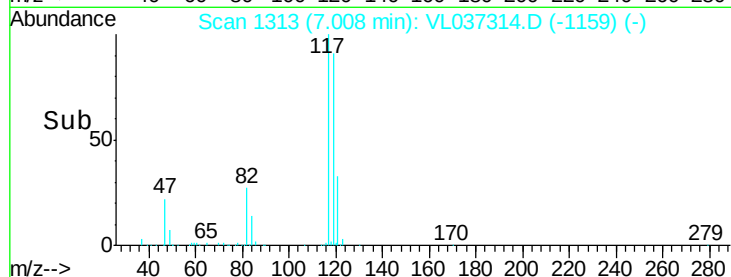
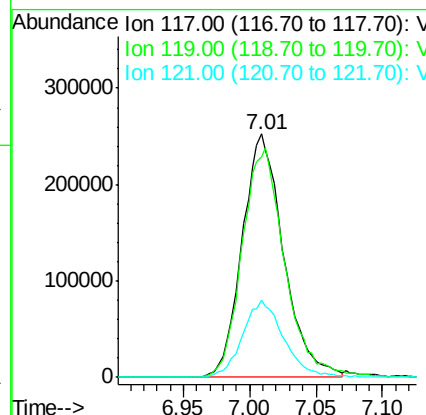
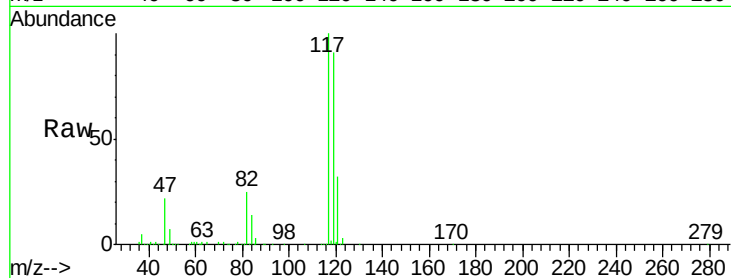
ClientSampleId :

VSTDIC002

Tot Ion:	117	Resp:	546882
Ion Ratio	Lower	Upper	
117	100		
119	90.7	76.6	114.8
121	31.9	24.9	37.3

Manual Integrations
APPROVED

MMDadoda
8/5/2021 1:39:48 PM



#36

Benzene

Concen: 2.211 ppbv

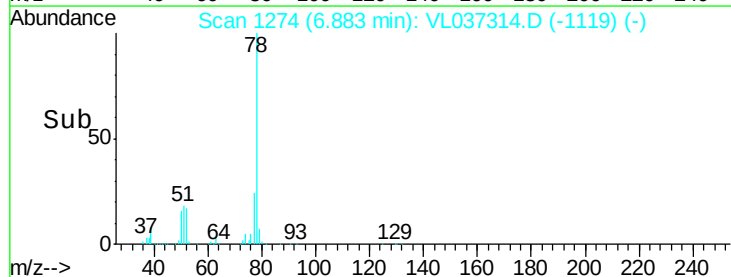
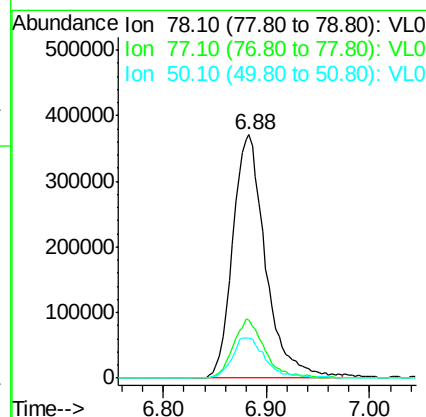
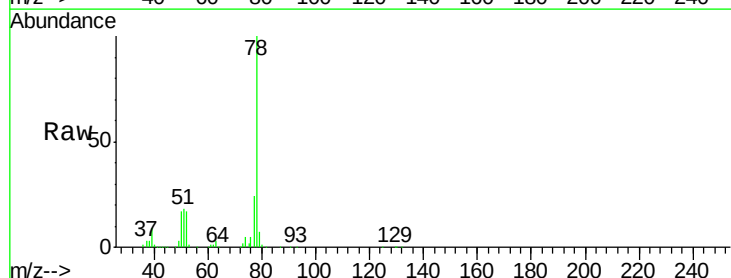
RT: 6.88 min Scan# 1274

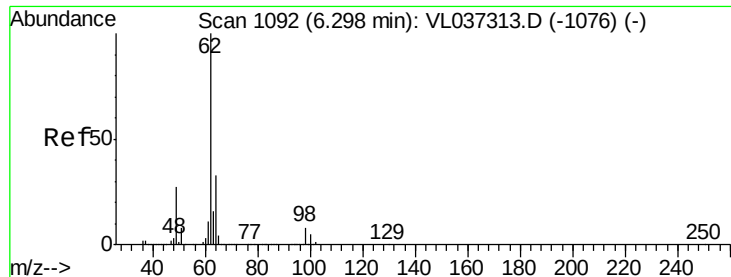
Delta R.T. -0.00 min

Lab File: VL037314.D

Acq: 4 Aug 2021 18:05

Tgt Ion:	78	Resp:	822009
Ion Ratio	Lower	Upper	
78	100		
77	23.7	18.7	28.1
50	16.5	13.7	20.5





#37

1,2-Dichloroethane

Concen: 2.140 ppbv

RT: 6.29 min Scan# 1091

Delta R.T. -0.00 min

Lab File: VL037314.D

Acq: 4 Aug 2021 18:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 62 Resp: 371219

Ion Ratio Lower Upper

62 100

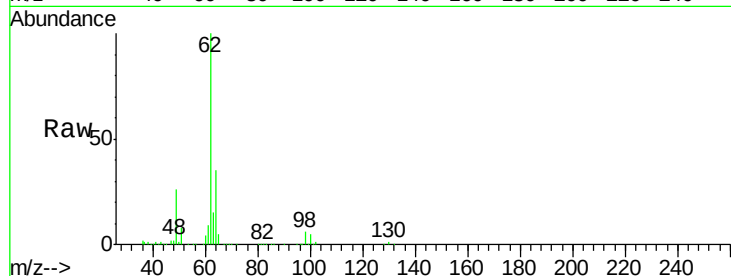
98 8.1 6.3 9.5

Manual Integrations

APPROVED

MMDadoda

8/5/2021 1:39:48 PM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.29

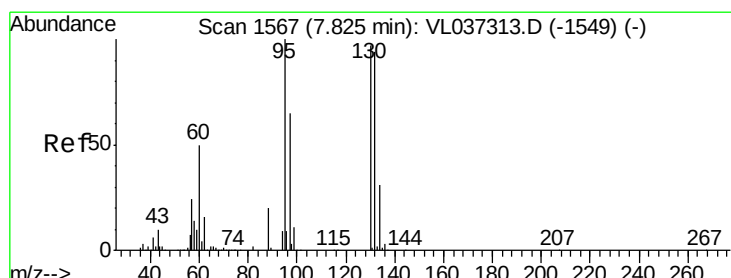
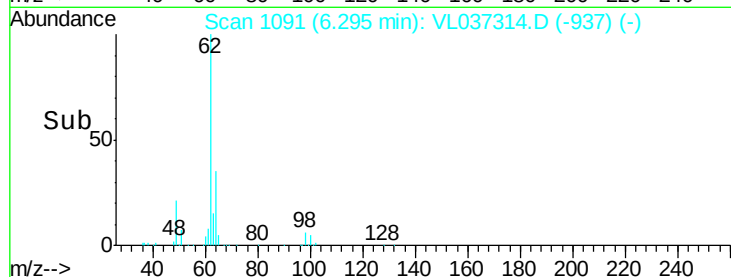
150000

100000

50000

0

Time-->



#38

Trichloroethene

Concen: 2.131 ppbv

RT: 7.82 min Scan# 1566

Delta R.T. -0.00 min

Lab File: VL037314.D

Acq: 4 Aug 2021 18:05

Tgt Ion: 130 Resp: 340816

Ion Ratio Lower Upper

130 100

95 97.0 82.8 124.2

132 96.5 78.2 117.4

97 61.3 54.2 81.2

Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

250000

200000

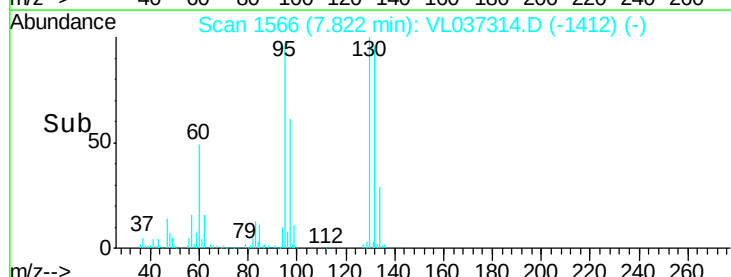
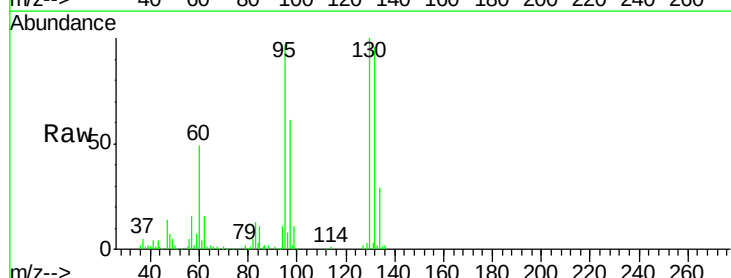
150000

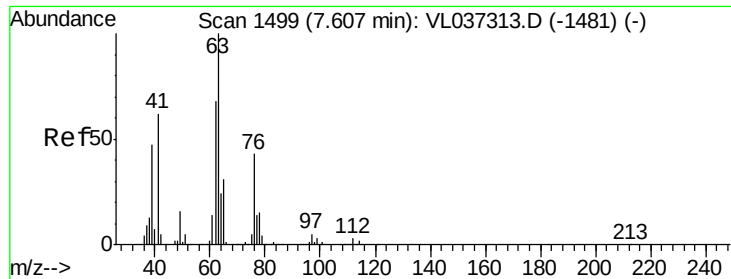
100000

50000

0

Time-->





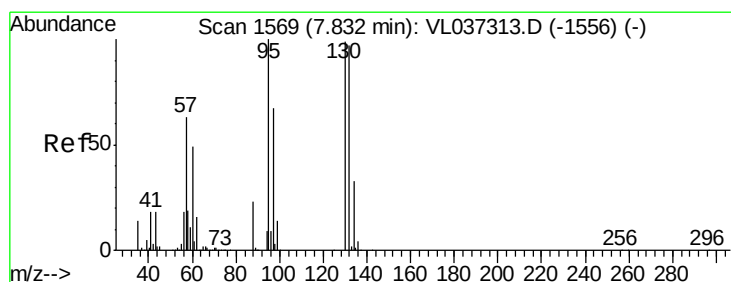
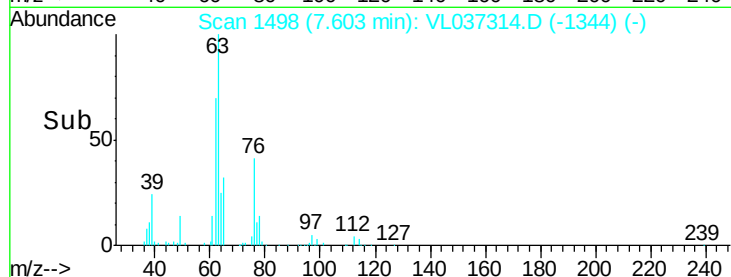
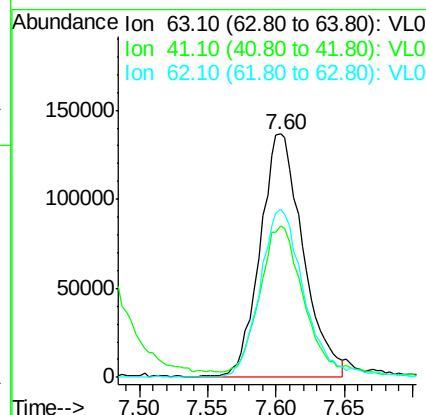
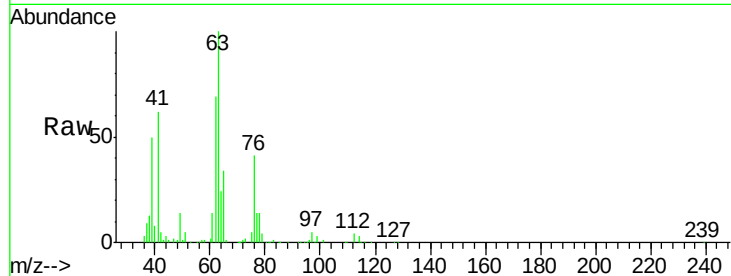
#39
 1,2-Dichloropropane
 Concen: 2.476 ppbv
 RT: 7.60 min Scan# 1498
 Delta R.T. -0.00 min
 Lab File: VL037314.D
 Acq: 4 Aug 2021 18:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
63	100		
41	60.3	49.2	73.8
62	68.7	54.2	81.4

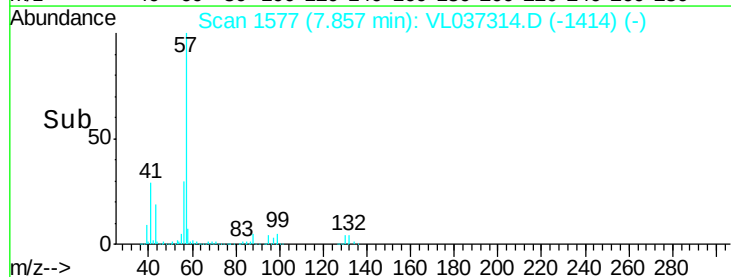
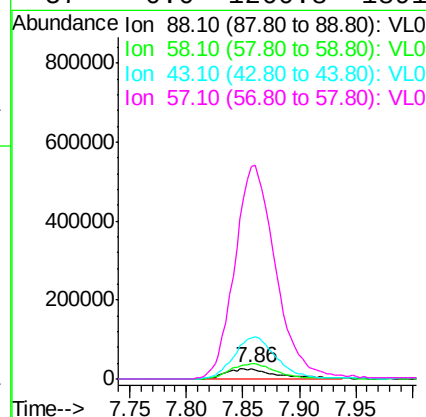
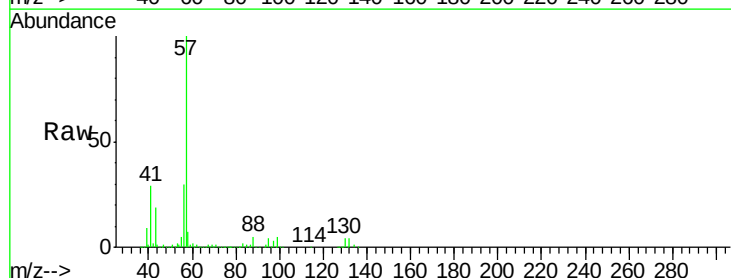
Manual Integrations
 APPROVED

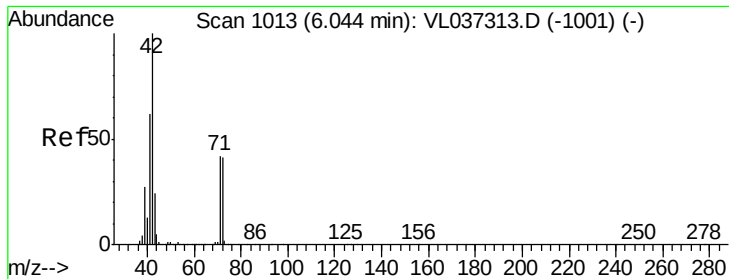
MMDadoda
 8/5/2021 1:39:48 PM



#40
 1,4-Dioxane
 Concen: 4.549 ppbv m
 RT: 7.86 min Scan# 1577
 Delta R.T. 0.03 min
 Lab File: VL037314.D
 Acq: 4 Aug 2021 18:05

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	117.5	176.3#
43	0.0	271.0	406.4#
57	0.0	1260.8	1891.2#





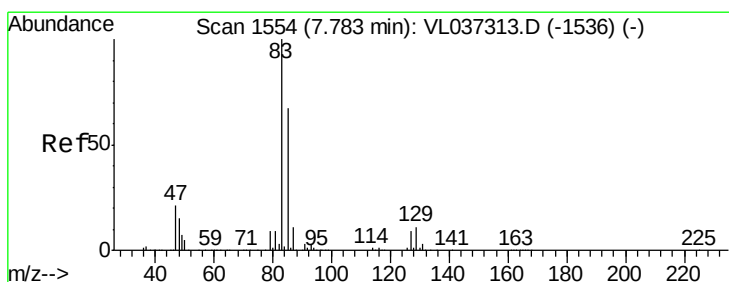
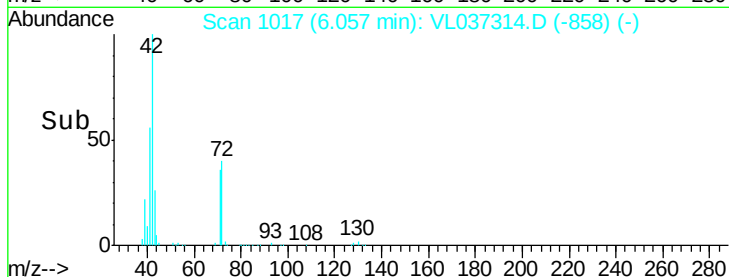
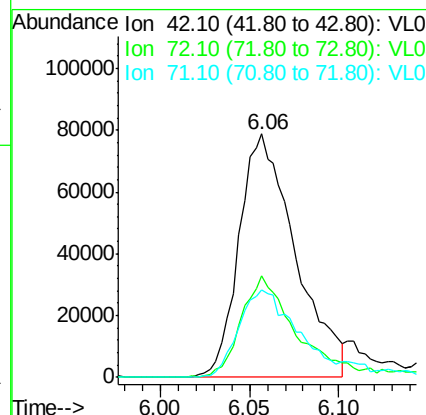
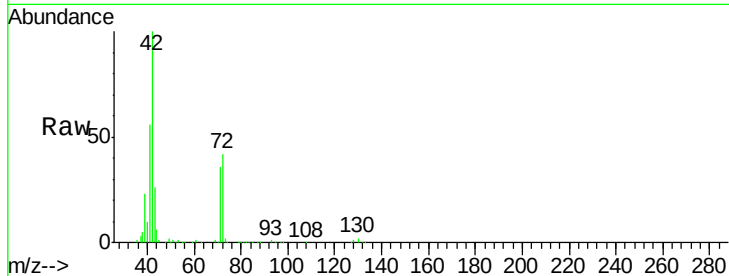
#41
Tetrahydrofuran
Concen: 2.870 ppbv
RT: 6.06 min Scan# 1017
Delta R.T. 0.01 min
Lab File: VL037314.D
Acq: 4 Aug 2021 18:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ion	Ratio	Resp	Lower	Upper
42	100		173543		
72	43.3	33.6	50.4		
71	43.6	33.0	49.4		

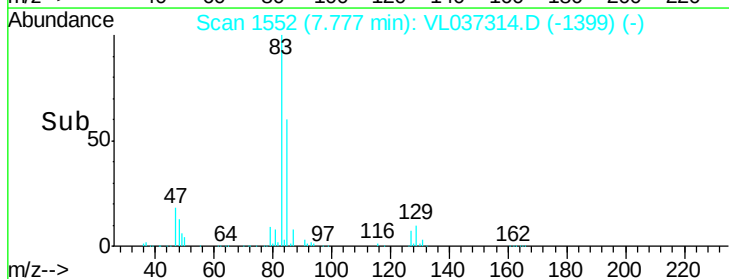
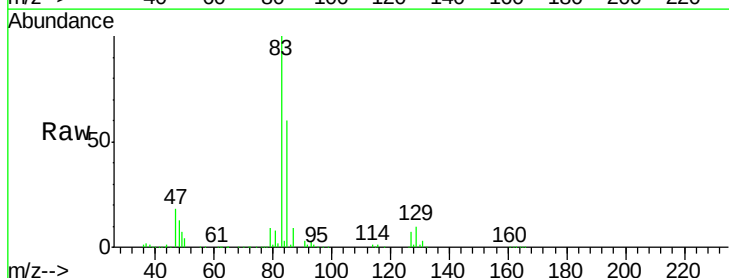
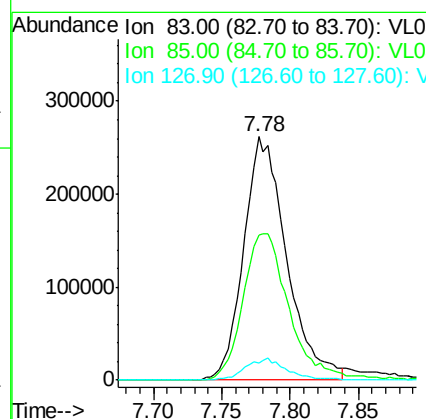
Manual Integrations
APPROVED

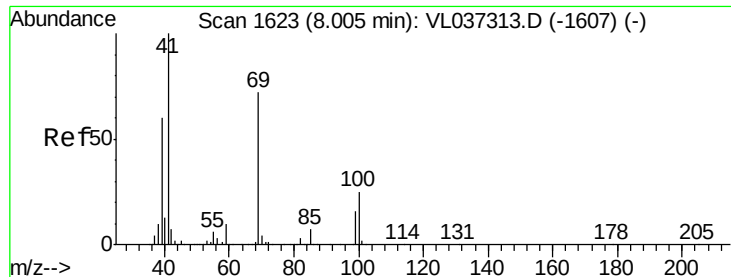
MMDadoda
8/5/2021 1:39:48 PM



#42
Bromodichloromethane
Concen: 2.199 ppbv
RT: 7.78 min Scan# 1552
Delta R.T. -0.01 min
Lab File: VL037314.D
Acq: 4 Aug 2021 18:05

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
83	100		571861		
85	59.6	53.5	80.3		
127	6.9	7.1	10.7#		





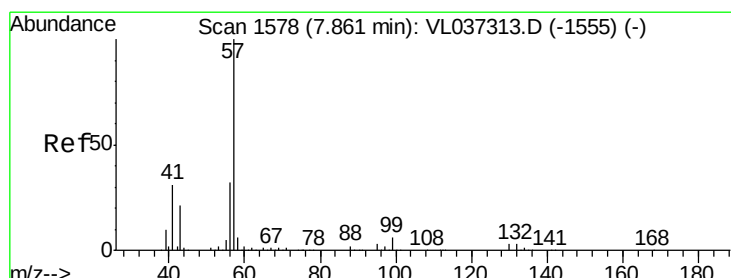
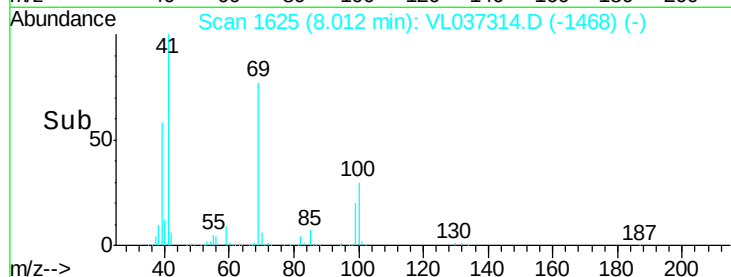
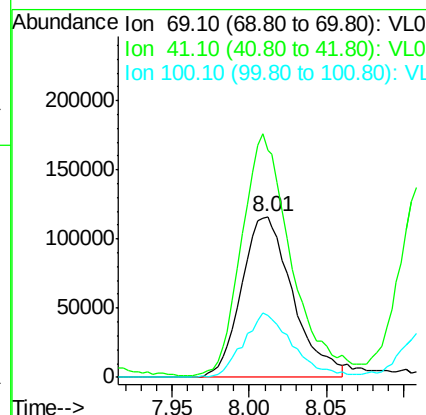
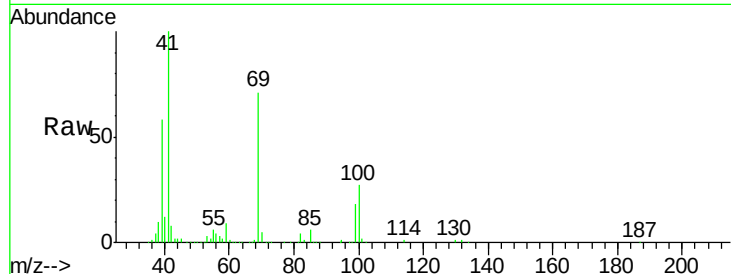
#43
Methyl Methacrylate
Concen: 2.328 ppbv
RT: 8.01 min Scan# 1625
Delta R.T. 0.01 min
Lab File: VL037314.D
Acq: 4 Aug 2021 18:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
69	100		
41	145.7	114.6	172.0
100	38.2	29.4	44.2

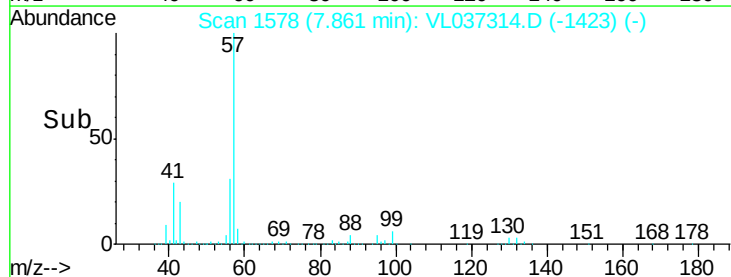
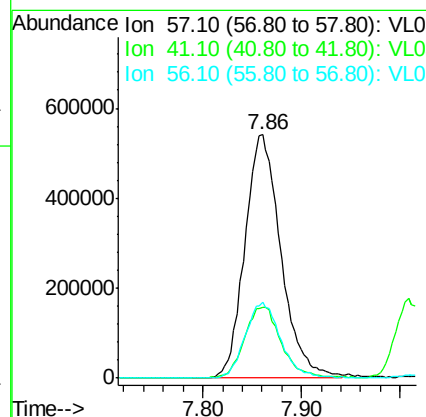
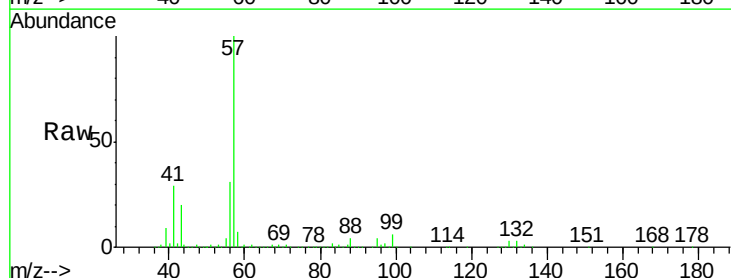
Manual Integrations
APPROVED

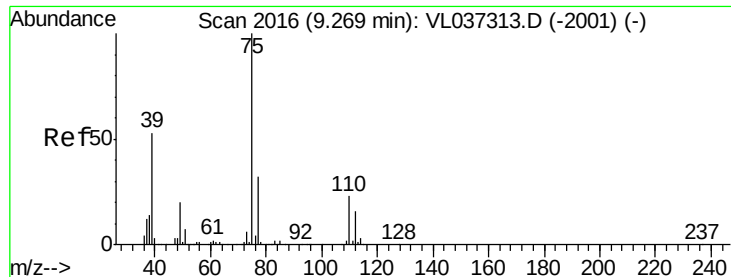
MMDadoda
8/5/2021 1:39:48 PM



#44
2,2,4-Trimethylpentane
Concen: 2.220 ppbv
RT: 7.86 min Scan# 1578
Delta R.T. -0.00 min
Lab File: VL037314.D
Acq: 4 Aug 2021 18:05

Tgt Ion	Ratio	Lower	Upper
57	100		
41	29.9	24.3	36.5
56	30.7	25.0	37.6





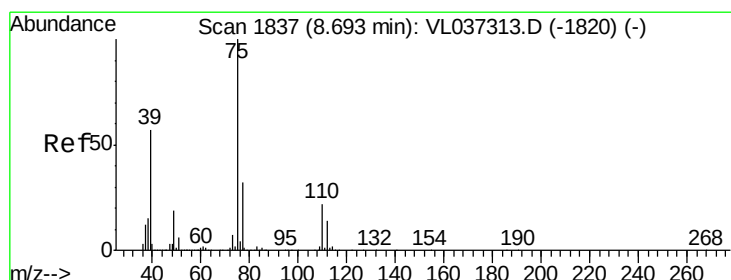
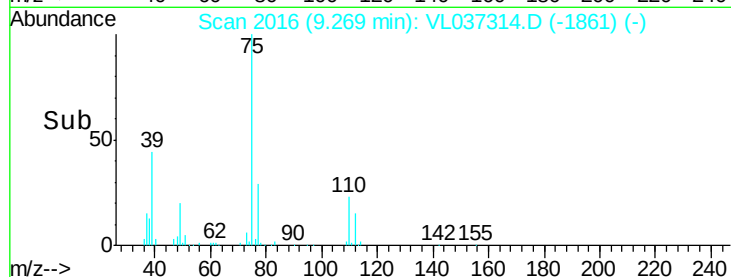
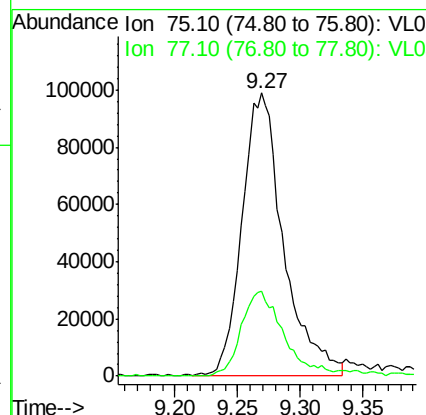
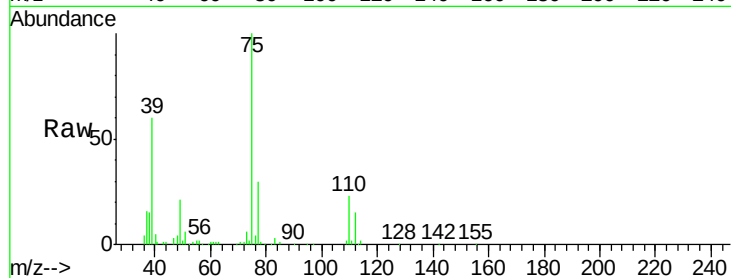
#45
 t-1,3-Dichloropropene
 Concen: 2.419 ppbv
 RT: 9.27 min Scan# 2016
 Delta R.T. -0.00 min
 Lab File: VL037314.D
 Acq: 4 Aug 2021 18:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion: 75 Resp: 225193
 Ion Ratio Lower Upper
 75 100
 77 29.9 25.7 38.5

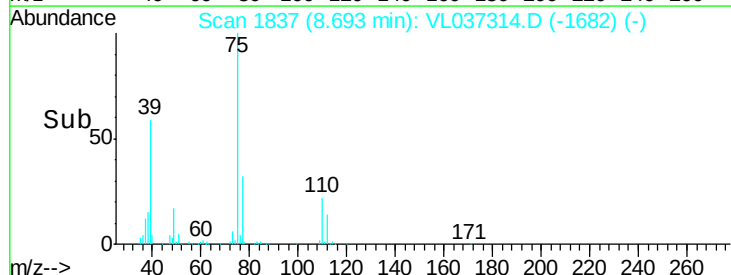
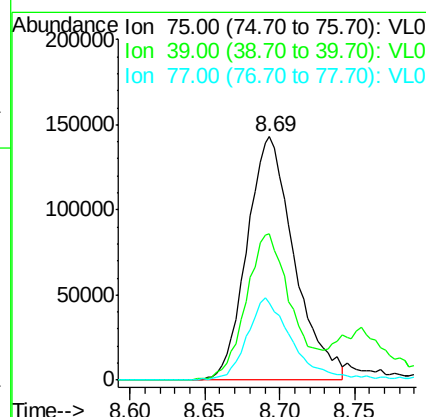
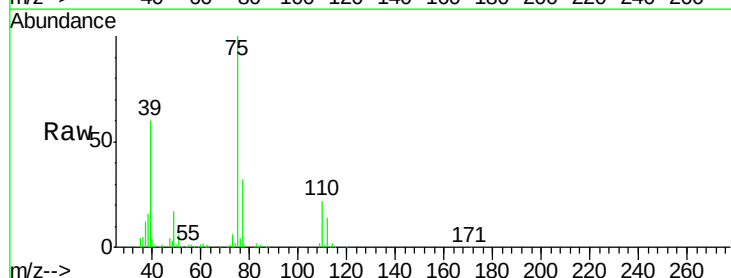
Manual Integrations
 APPROVED

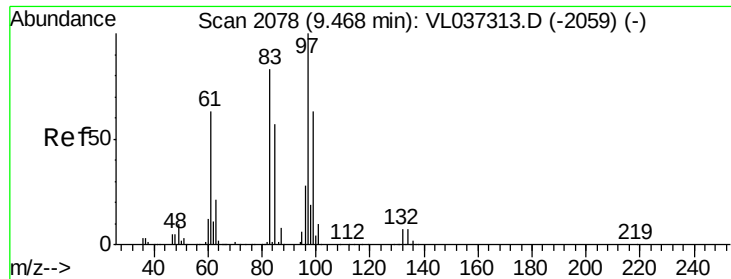
MMDadoda
 8/5/2021 1:39:48 PM



#46
 cis-1,3-Dichloropropene
 Concen: 2.186 ppbv
 RT: 8.69 min Scan# 1837
 Delta R.T. -0.00 min
 Lab File: VL037314.D
 Acq: 4 Aug 2021 18:05

Tgt Ion: 75 Resp: 314575
 Ion Ratio Lower Upper
 75 100
 39 59.7 45.6 68.4
 77 31.5 25.4 38.0





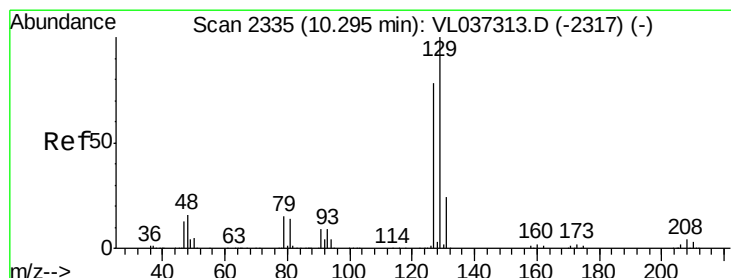
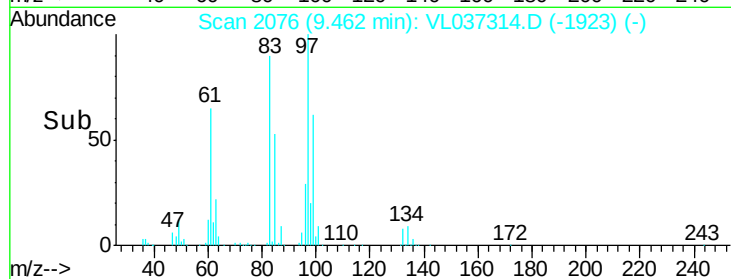
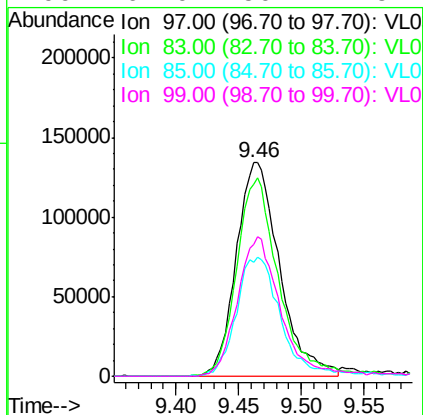
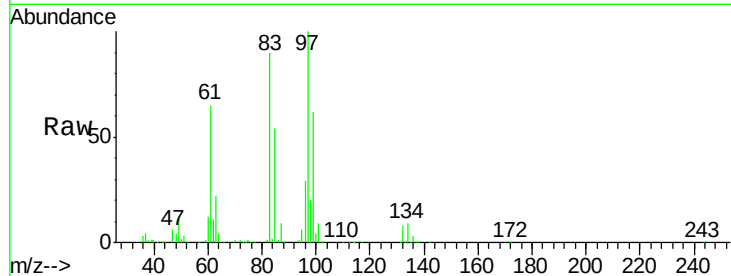
#47
 1,1,2-Trichloroethane
 Concen: 2.465 ppbv
 RT: 9.46 min Scan# 2076
 Delta R.T. -0.01 min
 Lab File: VL037314.D
 Acq: 4 Aug 2021 18:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		321828		
83	89.7	66.0	99.0		
85	53.5	45.7	68.5		
99	62.0	50.2	75.4		

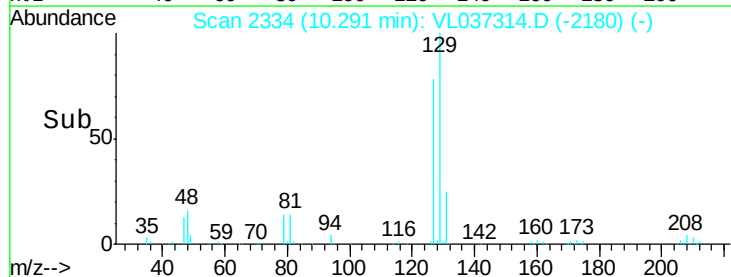
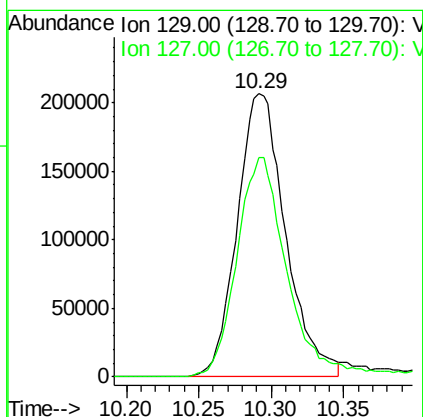
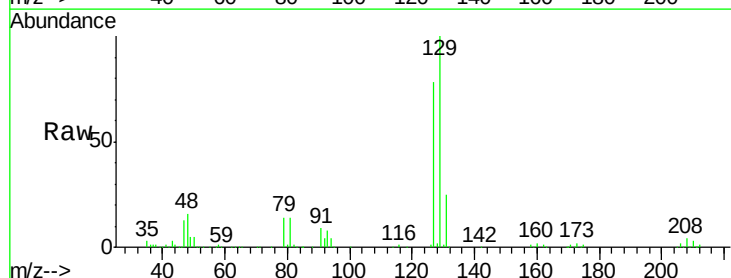
Manual Integrations
 APPROVED

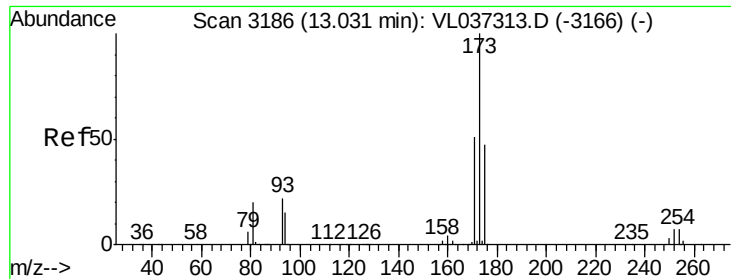
MMDadoda
 8/5/2021 1:39:48 PM



#48
 Dibromochloromethane
 Concen: 2.164 ppbv
 RT: 10.29 min Scan# 2334
 Delta R.T. -0.00 min
 Lab File: VL037314.D
 Acq: 4 Aug 2021 18:05

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		480055		
127	80.7	40.9	122.7		





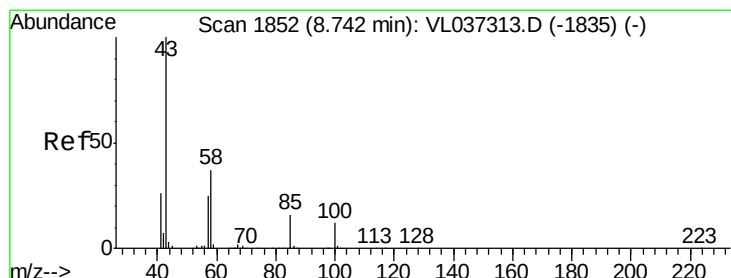
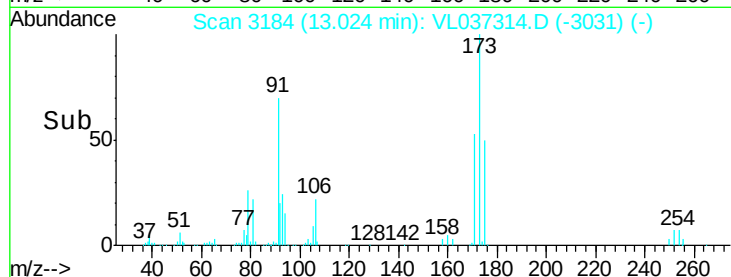
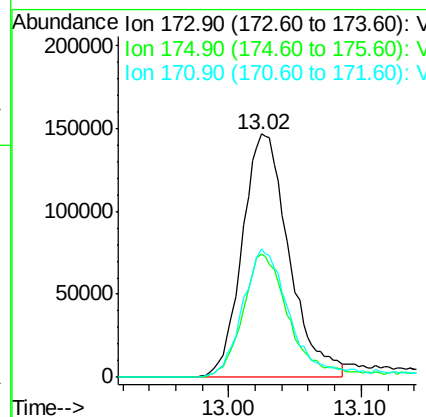
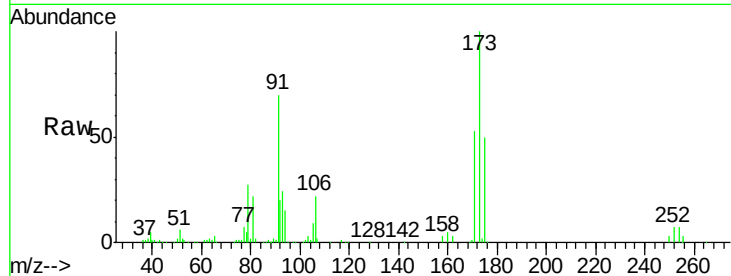
#49
Bromoform
Concen: 2.114 ppbv
RT: 13.02 min Scan# 3184
Delta R.T. -0.01 min
Lab File: VL037314.D
Acq: 4 Aug 2021 18:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
173	100		
175	50.4	42.3	63.5
171	56.5	44.9	67.3

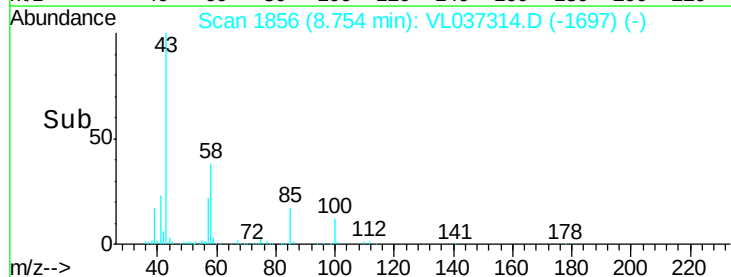
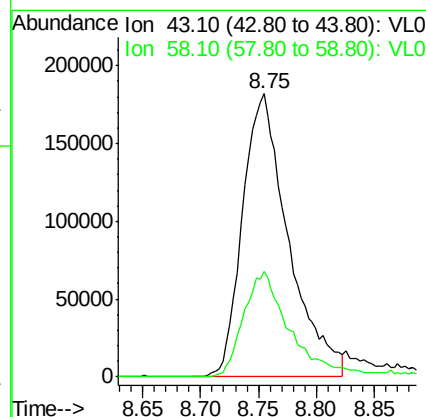
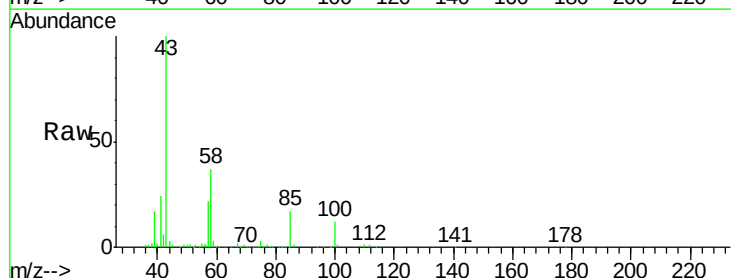
Manual Integrations
APPROVED

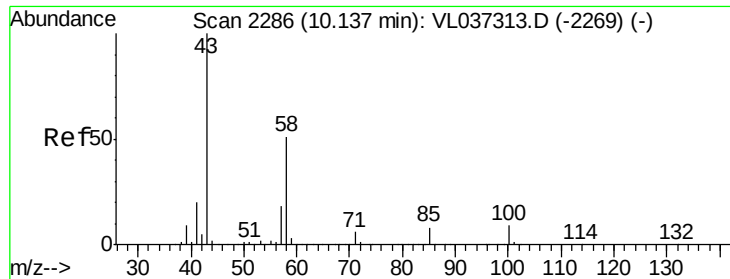
MMDadoda
8/5/2021 1:39:48 PM



#50
4-Methyl-2-Pentanone
Concen: 2.399 ppbv
RT: 8.75 min Scan# 1856
Delta R.T. 0.01 min
Lab File: VL037314.D
Acq: 4 Aug 2021 18:05

Tgt Ion	Ratio	Lower	Upper
43	100		
58	38.3	31.0	46.4





#51

2-Hexanone

Concen: 3.458 ppbv m

RT: 10.16 min Scan# 2293

Delta R.T. 0.02 min

Lab File: VL037314.D

Acq: 4 Aug 2021 18:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 43 Resp: 239569

Ion Ratio Lower Upper

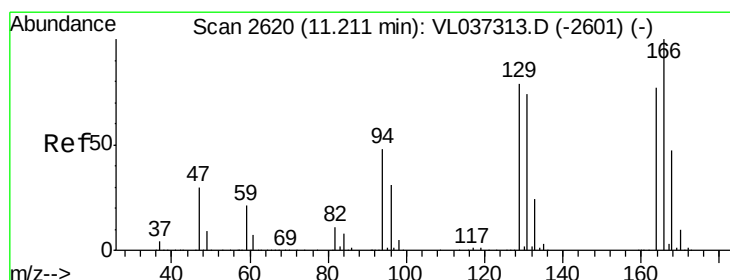
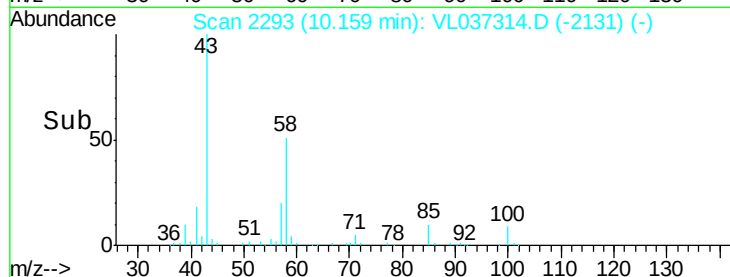
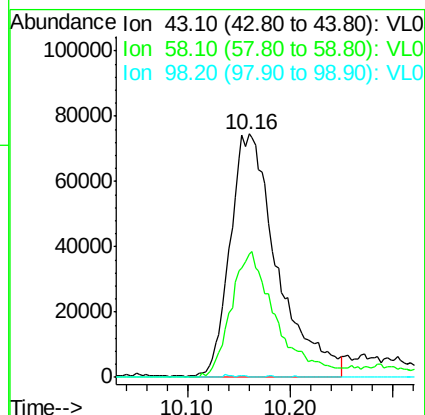
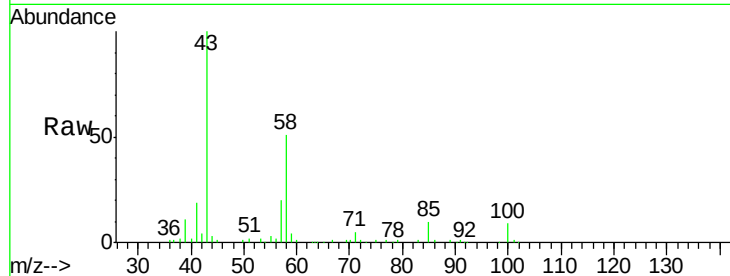
43 100

58 0.0 40.9 61.3#

98 0.3 0.1 0.1#

Manual Integrations
APPROVED

MMDadoda
8/5/2021 1:39:48 PM



#52

Tetrachloroethene

Concen: 2.456 ppbv m

RT: 11.21 min Scan# 2621

Delta R.T. 0.00 min

Lab File: VL037314.D

Acq: 4 Aug 2021 18:05

Tgt Ion: 164 Resp: 329310

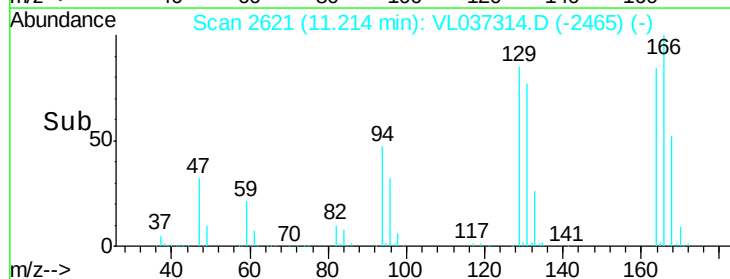
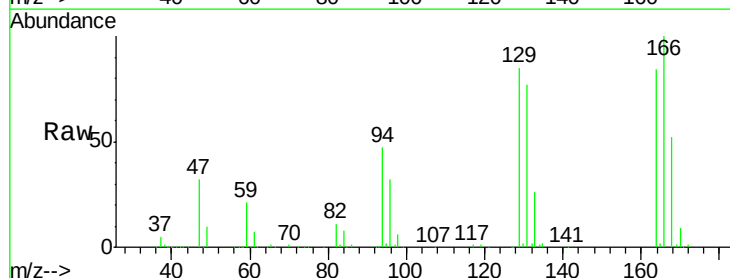
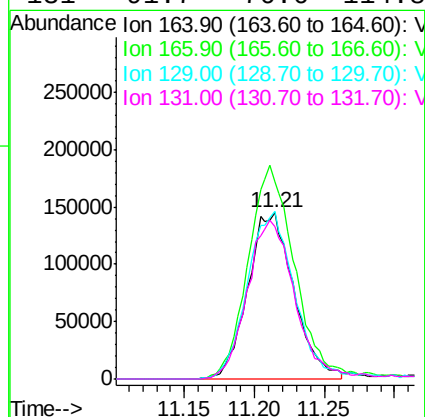
Ion Ratio Lower Upper

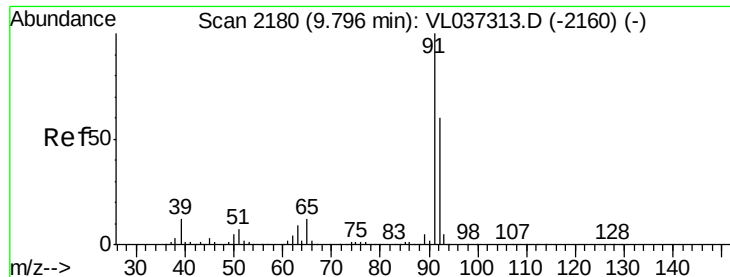
164 100

166 118.6 103.4 155.2

129 101.3 82.2 123.2

131 91.7 76.6 114.8





#53

Toluene

Concen: 2.184 ppbv

RT: 9.79 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL037314.D

Acq: 4 Aug 2021 18:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 959716

Ion Ratio Lower Upper

91 100

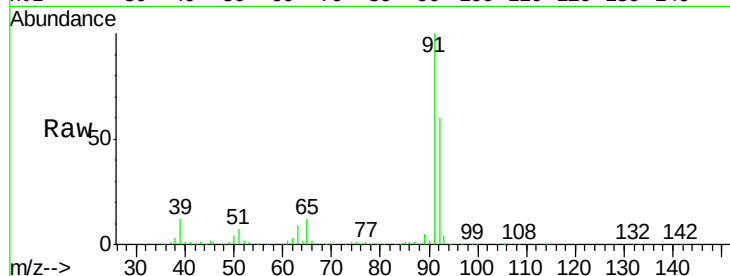
92 61.7 48.8 73.2

Manual Integrations

APPROVED

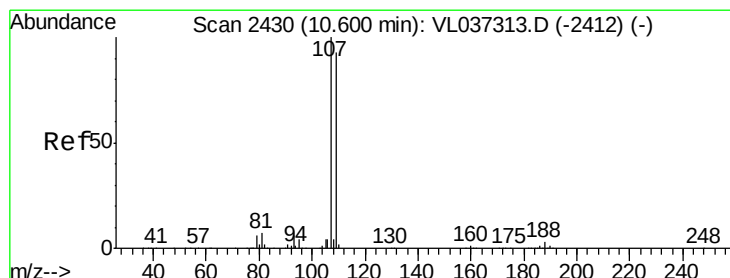
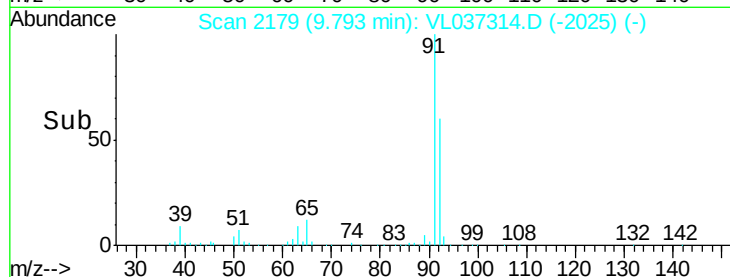
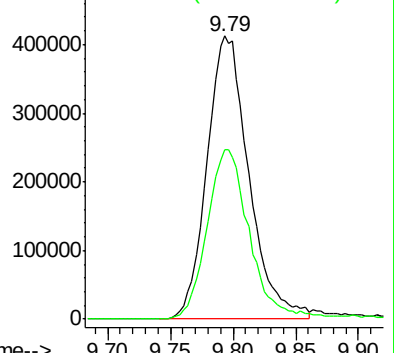
MMDadoda

8/5/2021 1:39:48 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 2.292 ppbv

RT: 10.60 min Scan# 2429

Delta R.T. -0.00 min

Lab File: VL037314.D

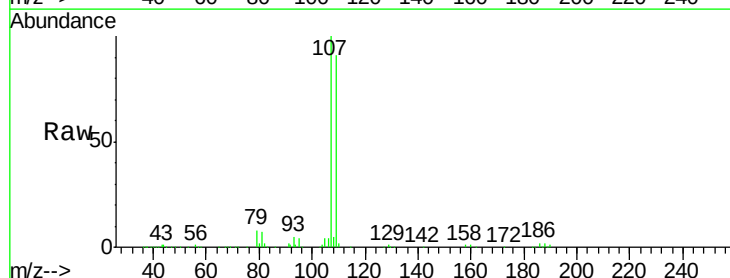
Acq: 4 Aug 2021 18:05

Tgt Ion: 107 Resp: 435643

Ion Ratio Lower Upper

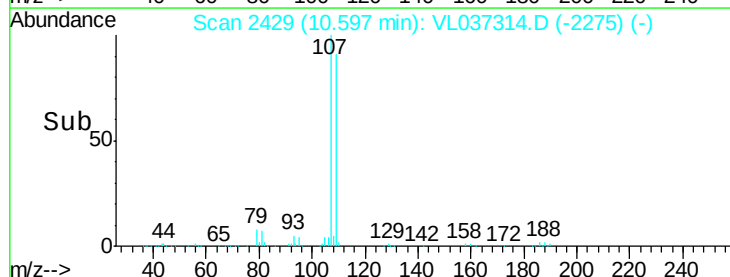
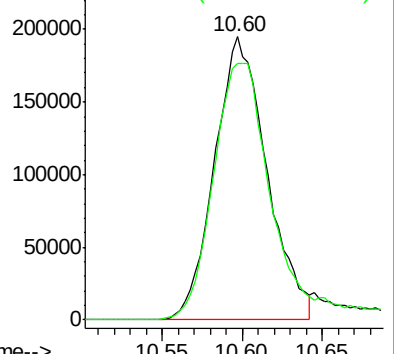
107 100

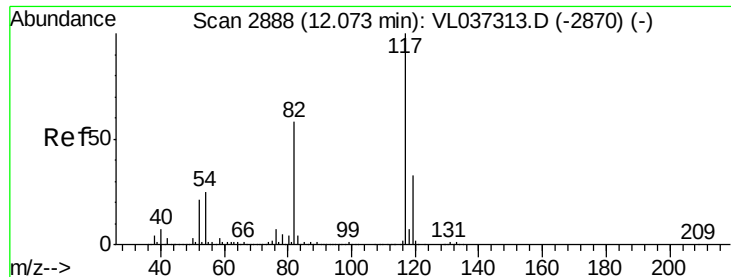
109 90.6 74.8 112.2



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





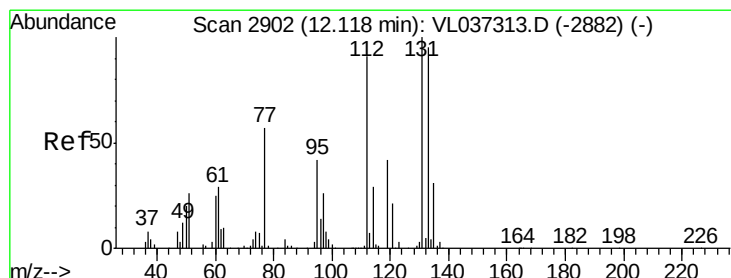
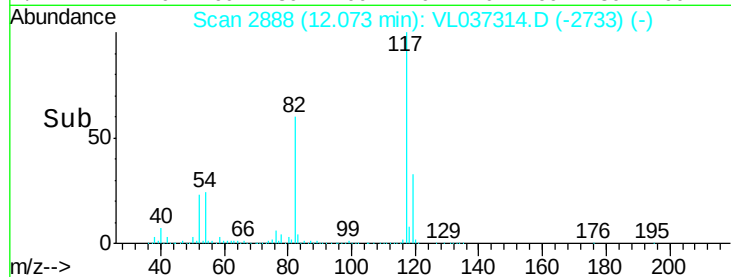
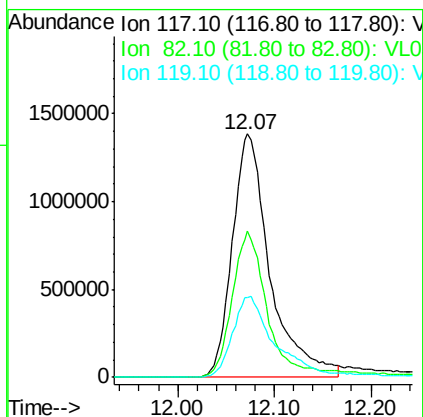
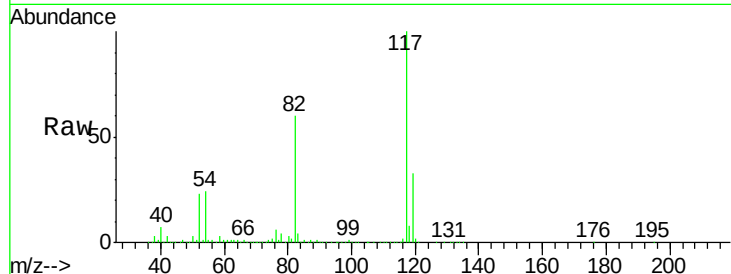
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2888
Delta R.T. -0.00 min
Lab File: VL037314.D
Acq: 4 Aug 2021 18:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
117	100		
82	60.9	50.3	75.5
119	39.9	48.2	72.2#

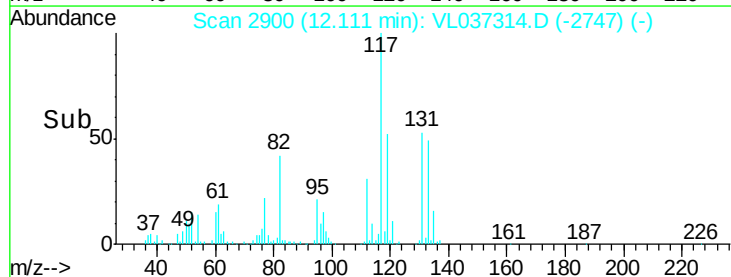
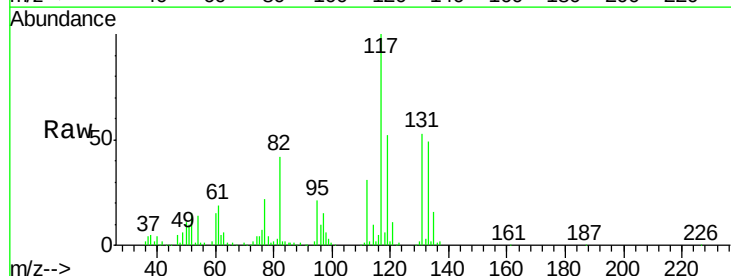
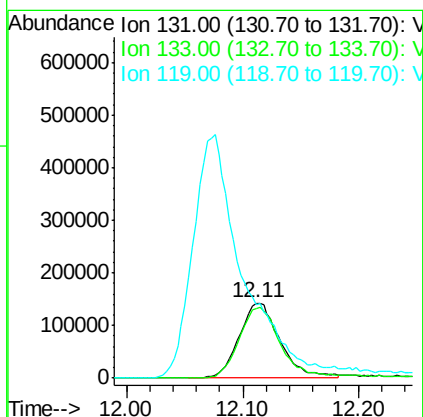
Manual Integrations
APPROVED

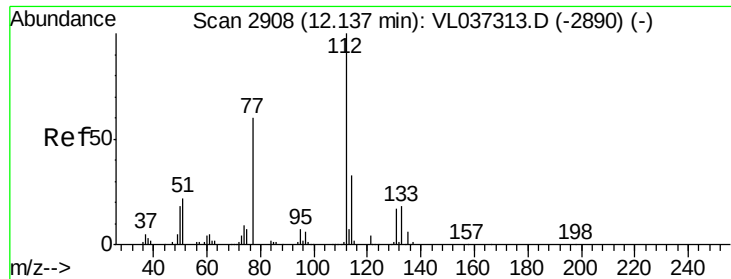
MMDadoda
8/5/2021 1:39:48 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 2.137 ppbv
RT: 12.11 min Scan# 2900
Delta R.T. -0.01 min
Lab File: VL037314.D
Acq: 4 Aug 2021 18:05

Tgt Ion	Ratio	Lower	Upper
131	100		
133	102.5	83.0	124.4
119	427.0	130.4	195.6#





#57

Chlorobenzene

Concen: 2.085 ppbv

RT: 12.13 min Scan# 2907

Delta R.T. -0.00 min

Lab File: VL037314.D

Acq: 4 Aug 2021 18:05

Instrument :

MSVOA_L

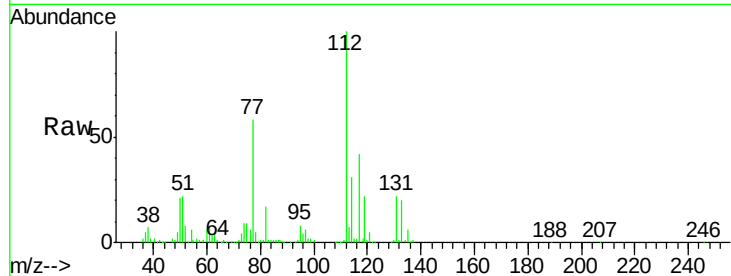
ClientSampleId :

VSTDIC002

Tot Ion:	112	Resp:	664579
Ion Ratio	Lower	Upper	
112	100		
77	53.9	47.8	71.6
114	31.4	29.8	36.4

Manual Integrations
APPROVED

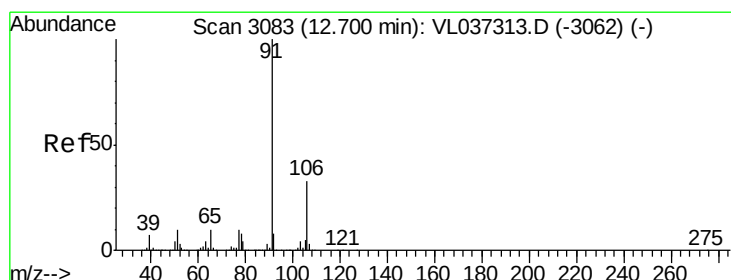
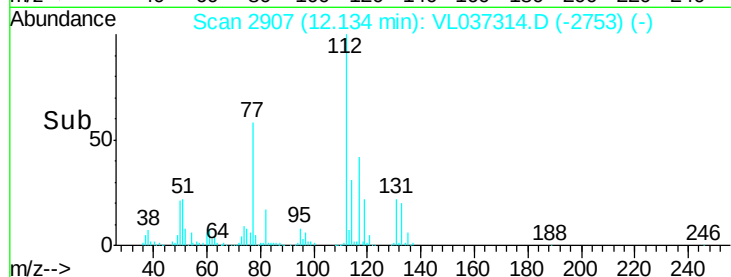
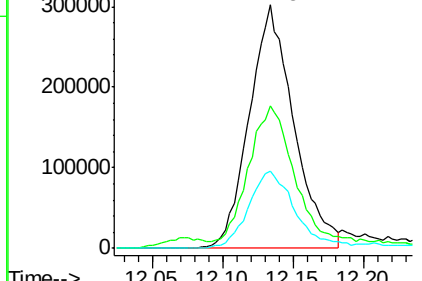
MMDadoda
8/5/2021 1:39:48 PM



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: 2.137 ppbv

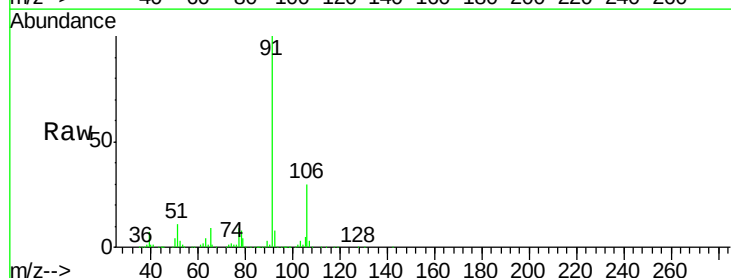
RT: 12.70 min Scan# 3082

Delta R.T. -0.00 min

Lab File: VL037314.D

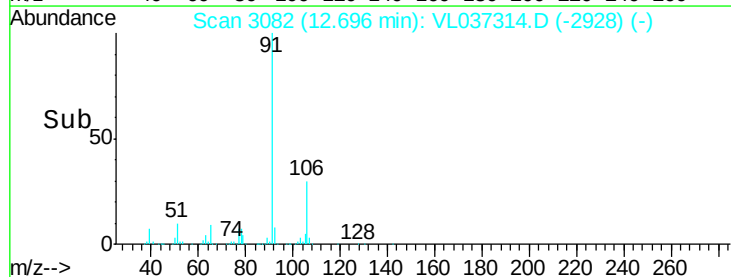
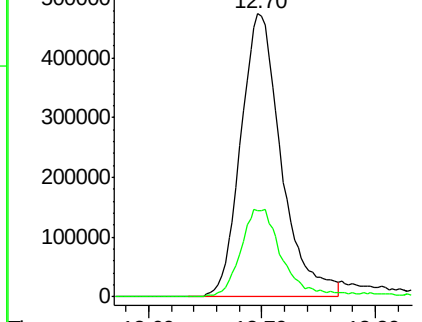
Acq: 4 Aug 2021 18:05

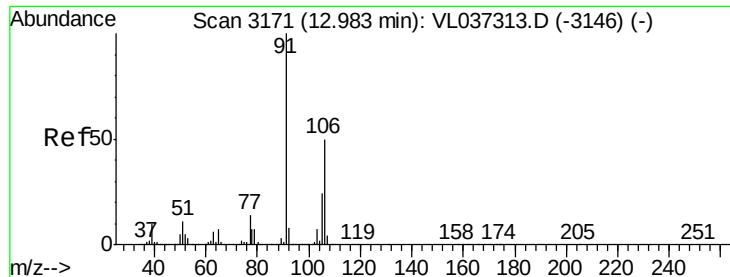
Tgt Ion:	91	Resp:	1182218
Ion Ratio	Lower	Upper	
91	100		
106	30.5	26.2	39.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 6.897 ppbv m

RT: 12.98 min Scan# 3170

Delta R.T. -0.00 min

Lab File: VL037314.D

Acq: 4 Aug 2021 18:05

Instrument :

MSVOA_L

ClientSampled :

VSTDIC002

Tot Ion: 91 Resp: 2092943

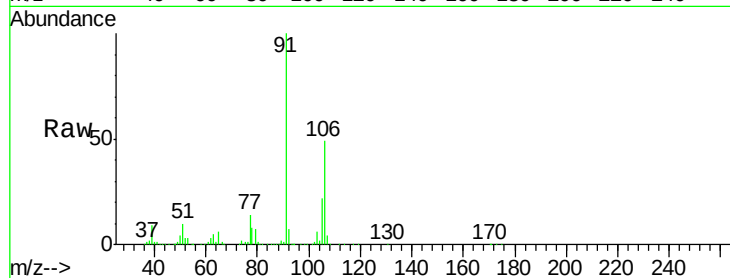
Ion Ratio Lower Upper

91 100

106 47.3 37.8 56.8

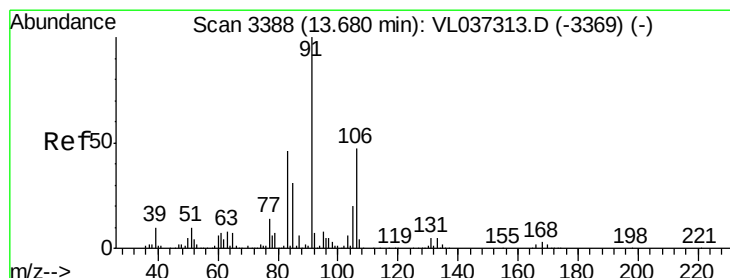
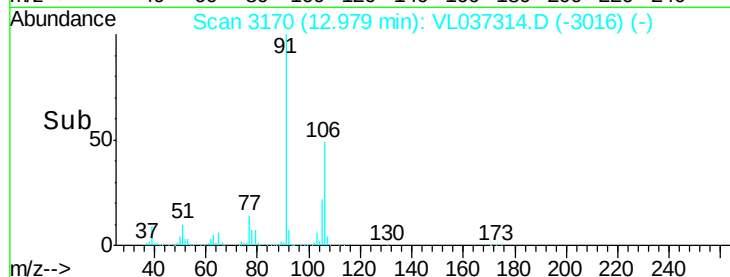
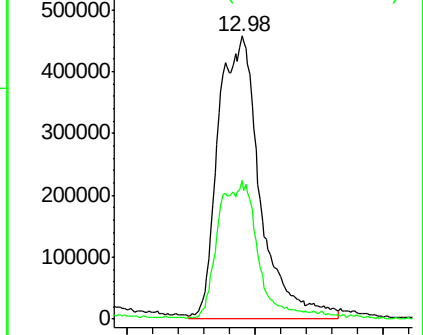
Manual Integrations
APPROVED

MMDadoda
8/5/2021 1:39:48 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 2.185 ppbv

RT: 13.68 min Scan# 3387

Delta R.T. -0.00 min

Lab File: VL037314.D

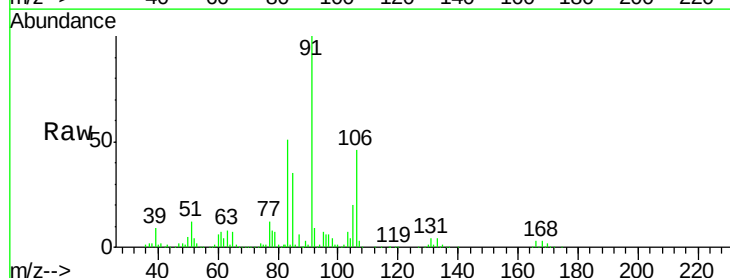
Acq: 4 Aug 2021 18:05

Tgt Ion: 91 Resp: 934703

Ion Ratio Lower Upper

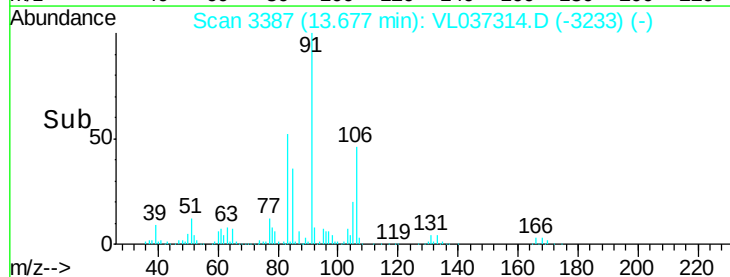
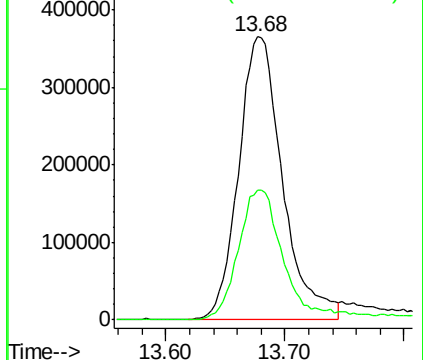
91 100

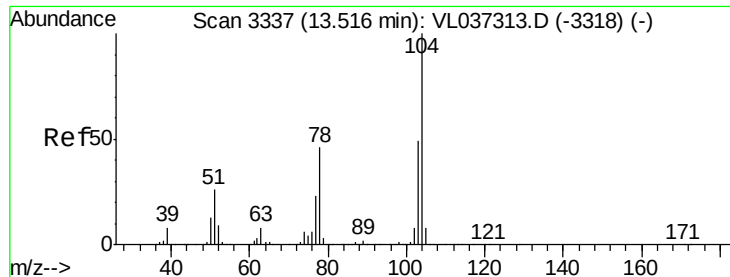
106 50.4 26.3 78.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#61

Stvrene

Concen: 2.126 ppbv

RT: 13.52 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VL037314.D

Acq: 4 Aug 2021 18:05

Instrument :

MSVOA_L

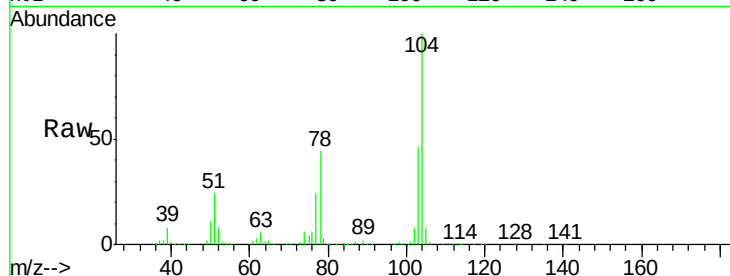
ClientSampleId :

VSTDIC002

Tot Ion:	104	Resp:	498401
Ion Ratio	Lower	Upper	
104	100		
78	48.3	39.3	58.9
103	50.1	40.6	60.8

Manual Integrations
APPROVED

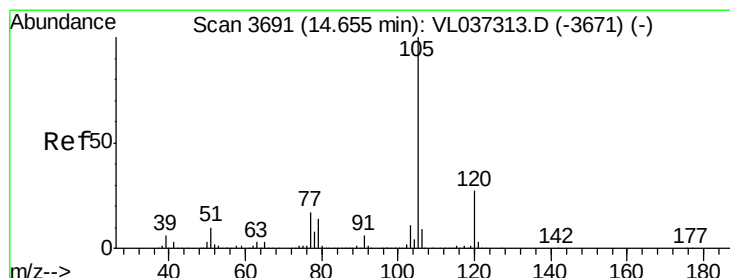
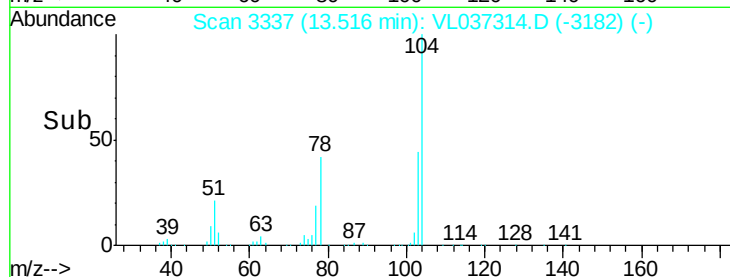
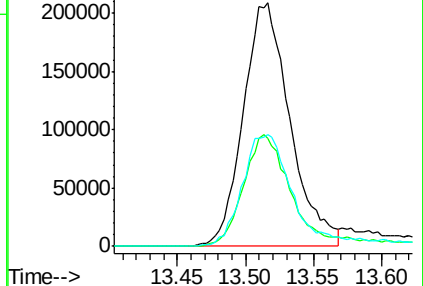
MMDadoda
8/5/2021 1:39:48 PM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 2.472 ppbv m

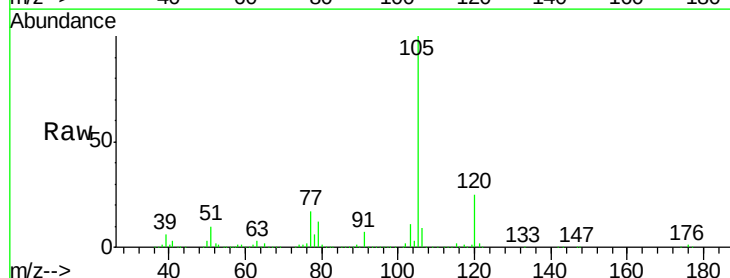
RT: 14.65 min Scan# 3691

Delta R.T. -0.00 min

Lab File: VL037314.D

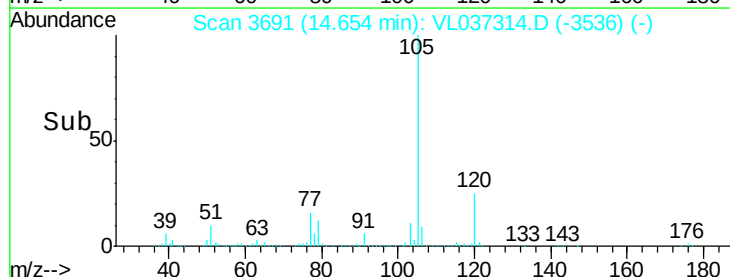
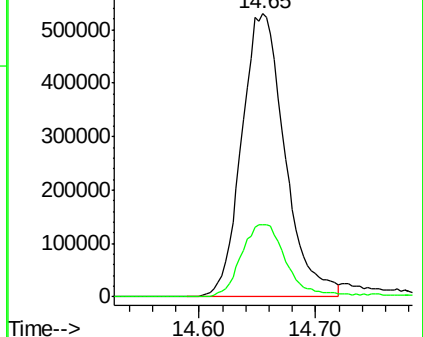
Acq: 4 Aug 2021 18:05

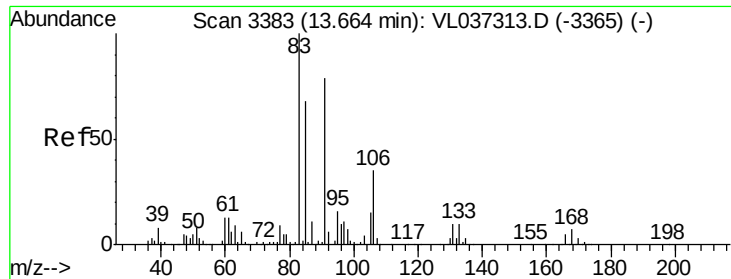
Tgt Ion:	105	Resp:	1354873
Ion Ratio	Lower	Upper	
105	100		
120	27.7	23.0	34.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 2.558 ppbv m

RT: 13.67 min Scan# 3384

Delta R.T. 0.00 min

Lab File: VL037314.D

Acq: 4 Aug 2021 18:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 83 Resp: 651939

Ion Ratio Lower Upper

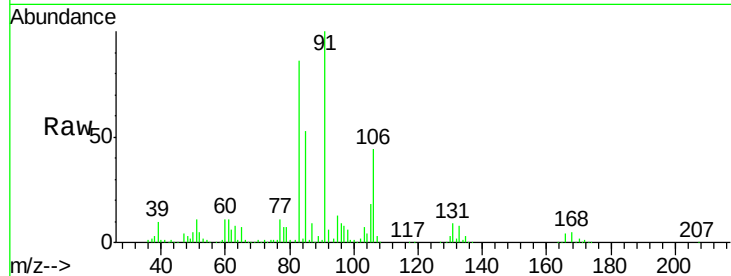
83 100

131 10.1 5.1 15.4

85 67.3 33.5 100.4

Manual Integrations
APPROVED

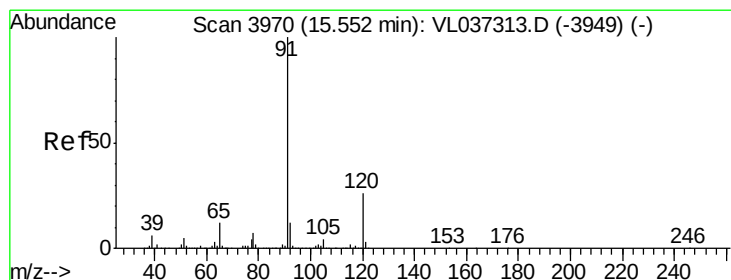
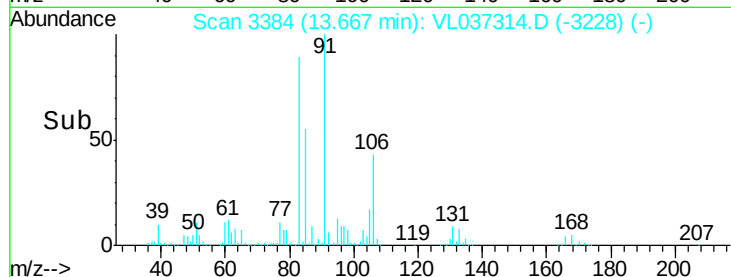
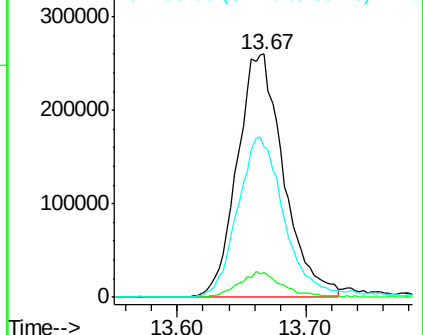
MMDadoda
8/5/2021 1:39:48 PM



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: 2.150 ppbv

RT: 15.55 min Scan# 3969

Delta R.T. -0.00 min

Lab File: VL037314.D

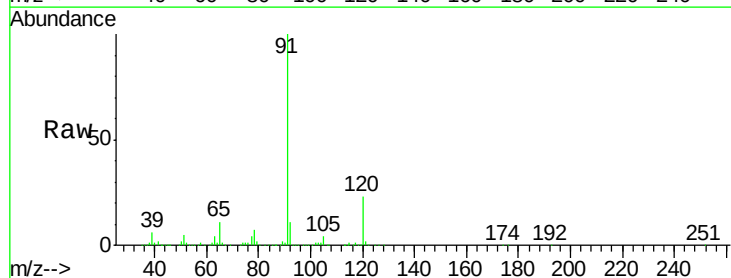
Acq: 4 Aug 2021 18:05

Tgt Ion: 120 Resp: 348364

Ion Ratio Lower Upper

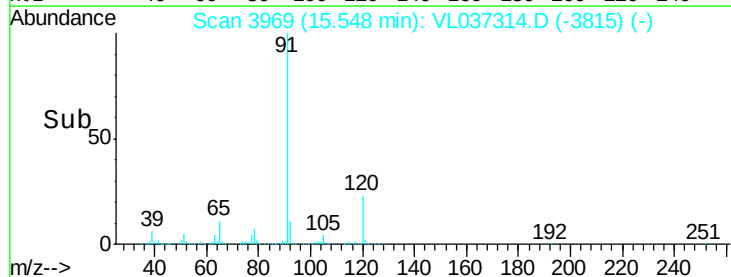
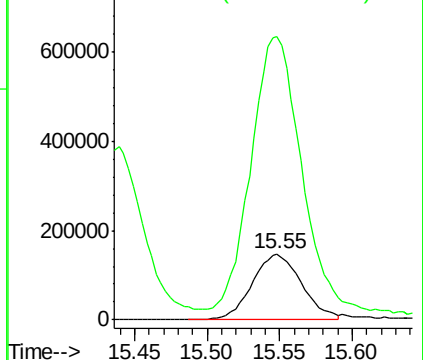
120 100

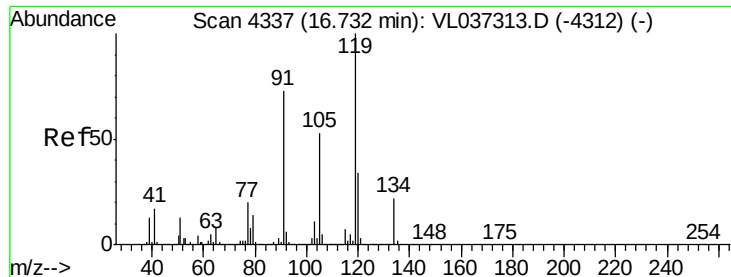
91 474.1 361.0 541.4



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 2.480 ppbv

RT: 16.73 min Scan# 4337

Delta R.T. -0.00 min

Lab File: VL037314.D

Acq: 4 Aug 2021 18:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:119 Resp: 1278664

Ion Ratio Lower Upper

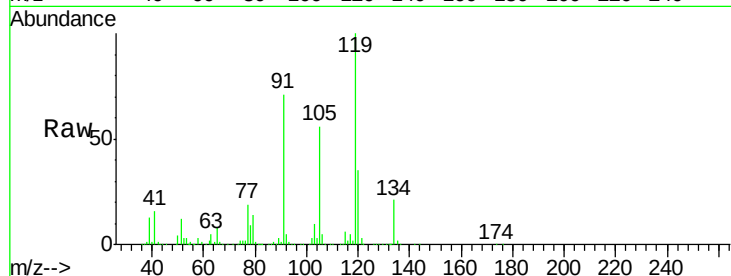
119 100

91 73.5 58.6 88.0

134 20.2 16.5 24.7

Manual Integrations
APPROVED

MMDadoda
8/5/2021 1:39:48 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

600000

500000

400000

300000

200000

100000

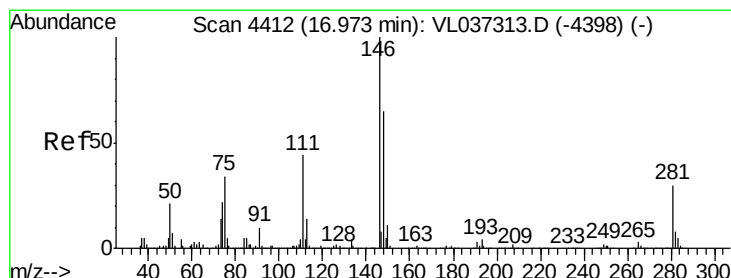
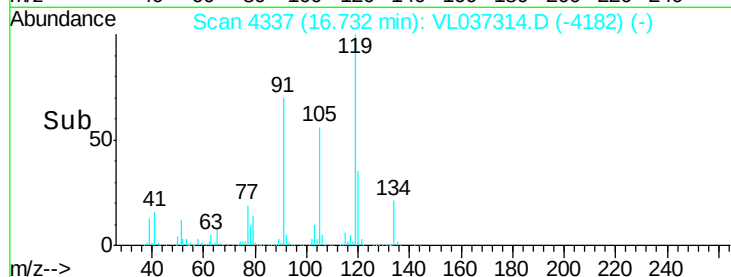
0

16.73

16.70

16.80

Time-->



#66

Benzyl Chloride

Concen: 0.367 ppbv m

RT: 16.97 min Scan# 4411

Delta R.T. -0.00 min

Lab File: VL037314.D

Acq: 4 Aug 2021 18:05

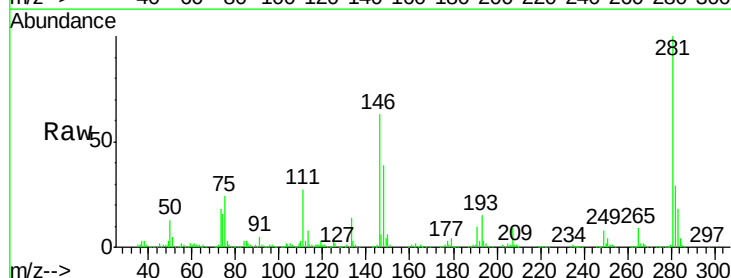
Tgt Ion: 91 Resp: 38461

Ion Ratio Lower Upper

91 100

126 38.6 17.8 26.6#

128 8.2 5.8 8.6



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

20000

15000

10000

5000

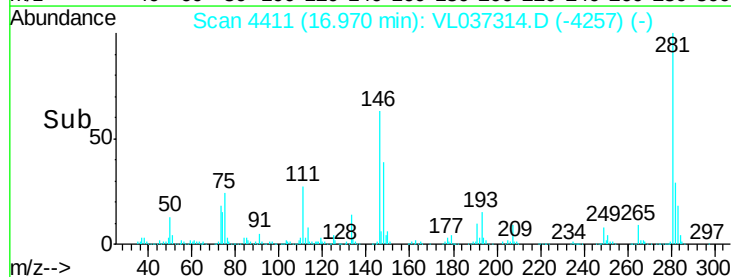
0

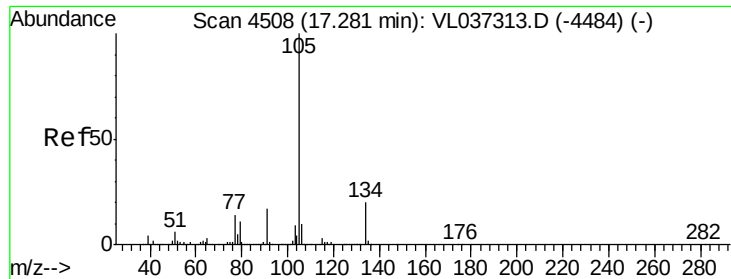
16.97

16.95

17.00

Time-->





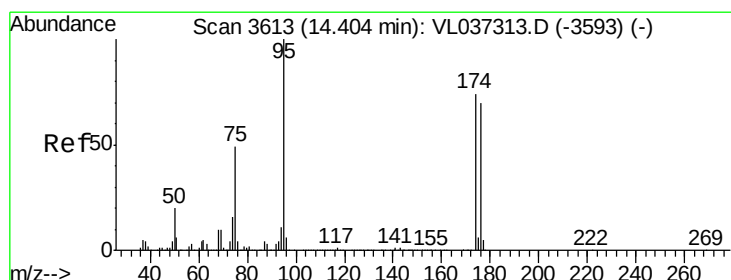
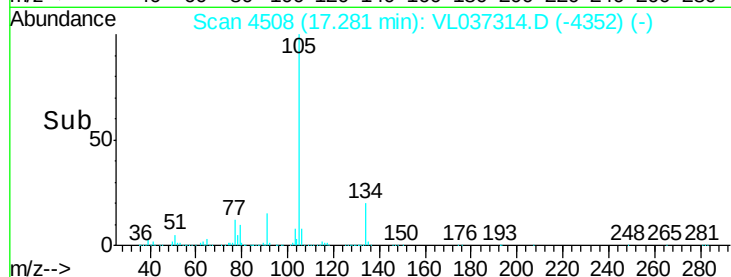
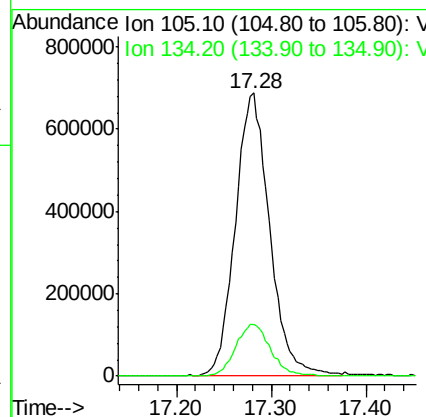
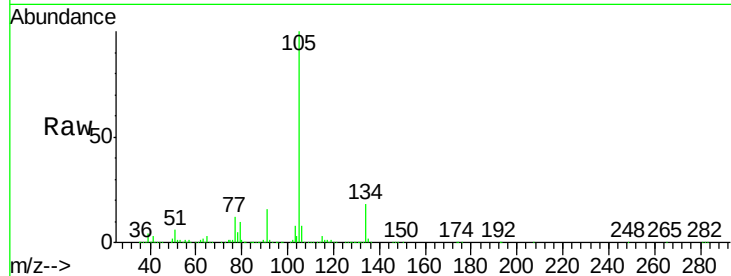
#67
 sec-Butylbenzene
 Concen: 2.506 ppbv
 RT: 17.28 min Scan# 4508
 Delta R.T. -0.00 min
 Lab File: VL037314.D
 Acq: 4 Aug 2021 18:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion: 105 Resp: 1722316
 Ion Ratio Lower Upper
 105 100
 134 19.0 15.4 23.2

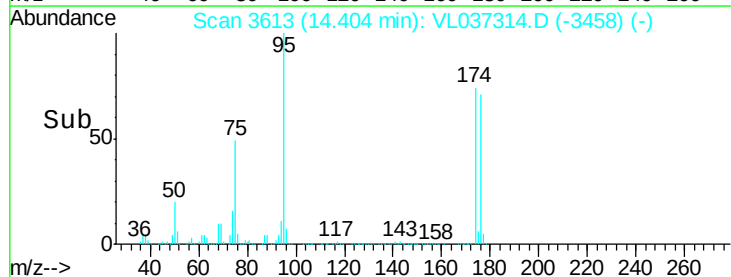
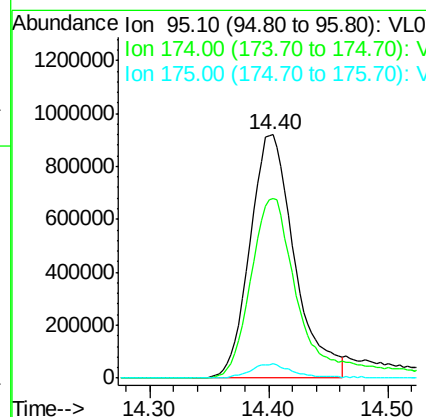
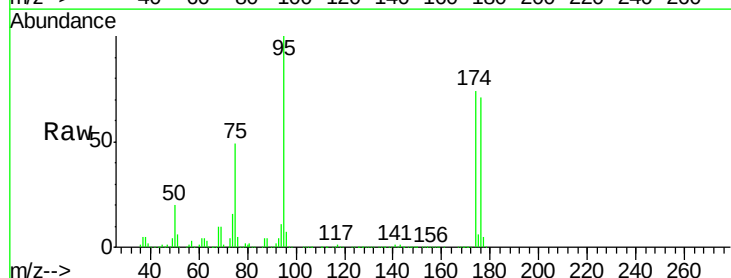
Manual Integrations
 APPROVED

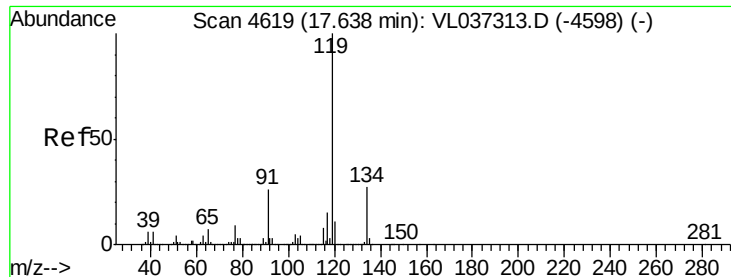
MMDadoda
 8/5/2021 1:39:48 PM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.123 ppbv
 RT: 14.40 min Scan# 3613
 Delta R.T. -0.00 min
 Lab File: VL037314.D
 Acq: 4 Aug 2021 18:05

Tgt Ion: 95 Resp: 2388887
 Ion Ratio Lower Upper
 95 100
 174 83.6 66.9 100.3
 175 6.0 5.1 7.7





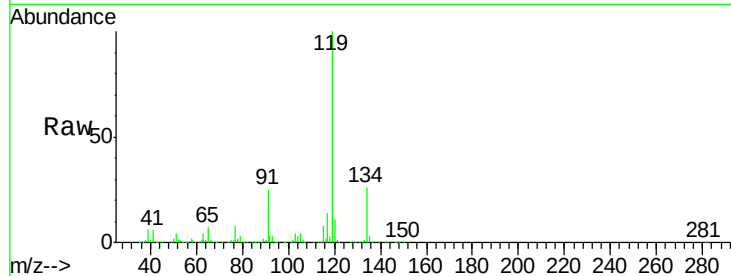
#69
 p-Isopropyltoluene
 Concen: 2.260 ppbv
 RT: 17.64 min Scan# 4619
 Delta R.T. -0.00 min
 Lab File: VL037314.D
 Acq: 4 Aug 2021 18:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

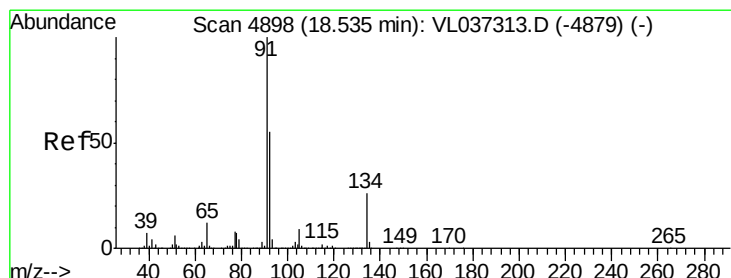
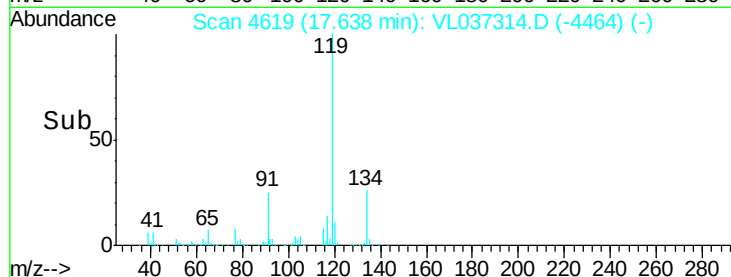
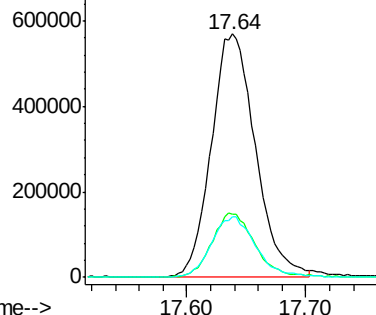
Tot Ion	Ratio	Lower	Upper
119	100		
134	25.9	21.0	31.6
91	25.2	20.5	30.7

Manual Integrations
 APPROVED

MMDadoda
 8/5/2021 1:39:48 PM

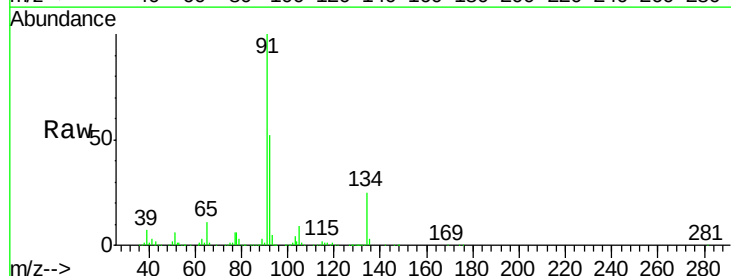


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

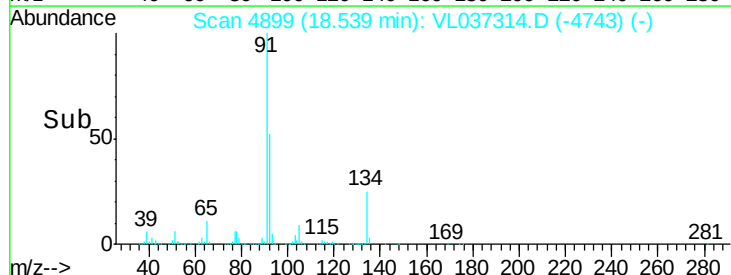
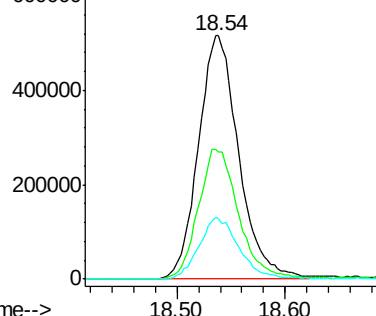


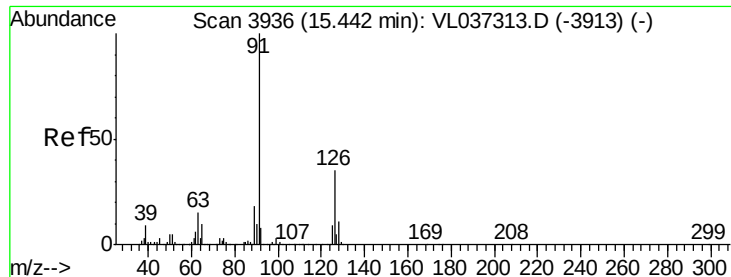
#70
 n-Butylbenzene
 Concen: 2.257 ppbv
 RT: 18.54 min Scan# 4899
 Delta R.T. 0.00 min
 Lab File: VL037314.D
 Acq: 4 Aug 2021 18:05

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.9	44.1	66.1
134	25.9	20.6	31.0



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





#71

2-Chlorotoluene

Concen: 2.165 ppbv

RT: 15.44 min Scan# 3935

Delta R.T. -0.00 min

Lab File: VL037314.D

Acq: 4 Aug 2021 18:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 938806

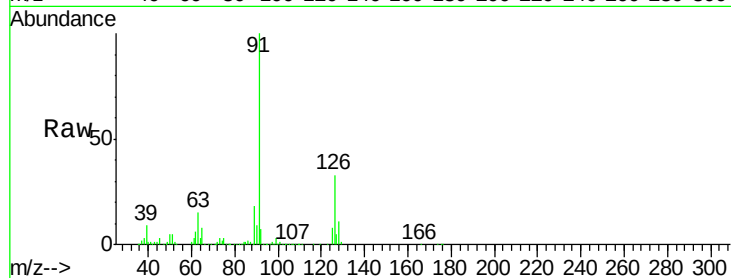
Ion Ratio Lower Upper

91 100

126 35.9 14.3 57.1

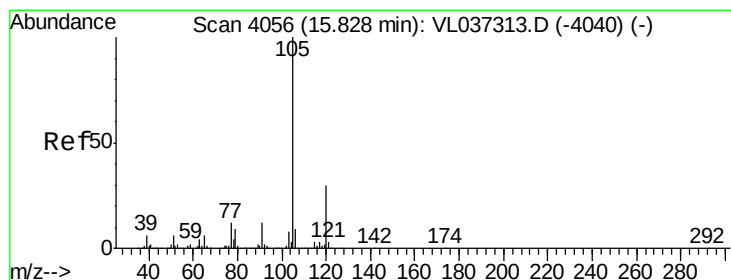
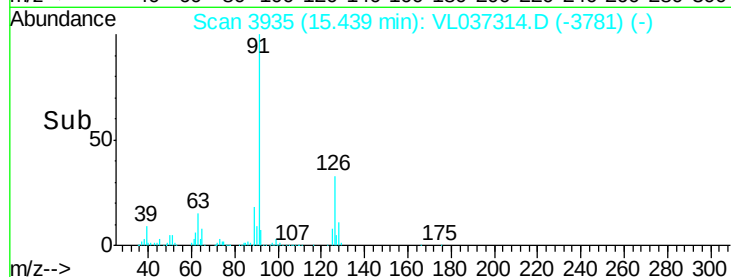
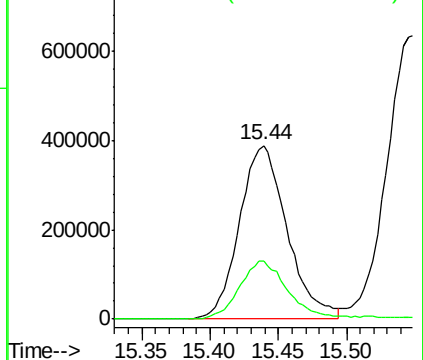
Manual Integrations
APPROVED

MMDadoda
8/5/2021 1:39:48 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 2.193 ppbv

RT: 15.82 min Scan# 4055

Delta R.T. -0.00 min

Lab File: VL037314.D

Acq: 4 Aug 2021 18:05

Tgt Ion:105 Resp: 1122355

Ion Ratio Lower Upper

105 100

120 32.0 25.6 38.4

91 11.8 9.4 14.2

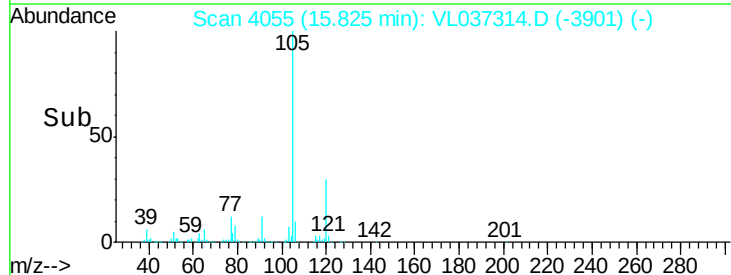
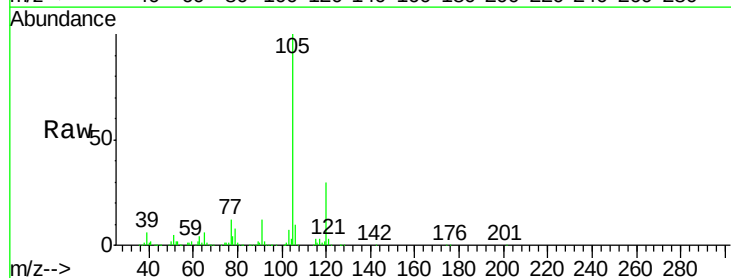
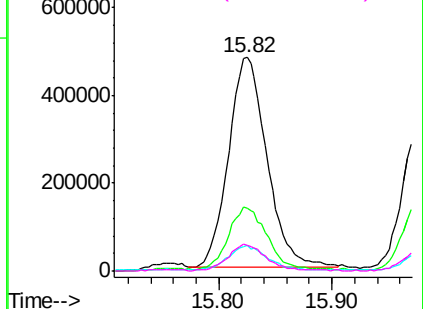
77 12.9 10.2 15.4

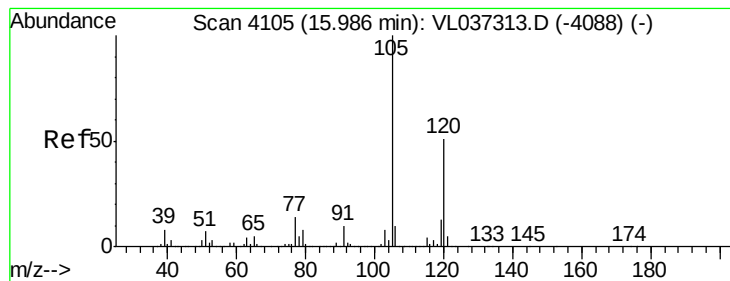
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 2.214 ppbv

RT: 15.98 min Scan# 4104

Delta R.T. -0.00 min

Lab File: VL037314.D

Acq: 4 Aug 2021 18:05

Instrument :

MSVOA_L

ClientSampled :

VSTDIC002

Tot Ion:105 Resp: 1023181

Ion Ratio Lower Upper

105 100

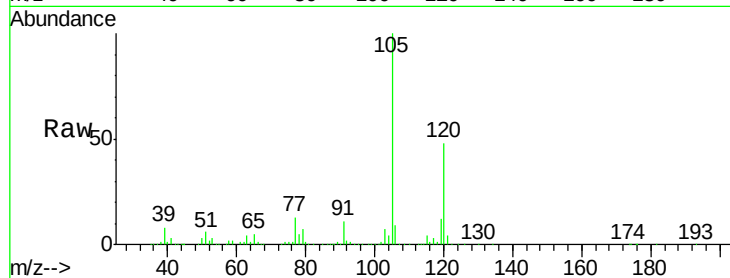
120 48.0 40.4 60.6

Manual Integrations

APPROVED

MMDadoda

8/5/2021 1:39:48 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

15.98

400000

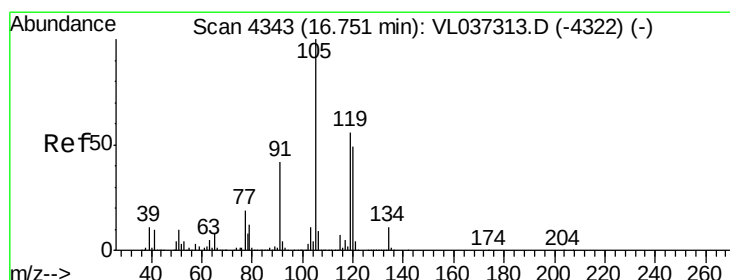
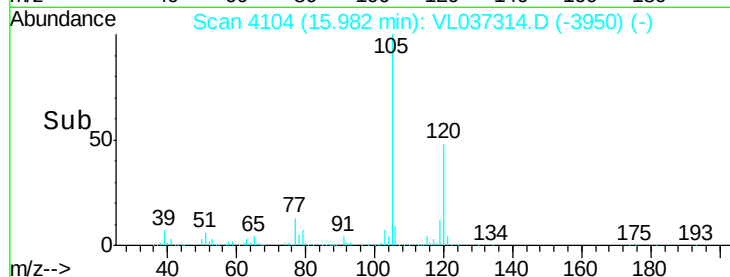
300000

200000

100000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 2.258 ppbv

RT: 16.75 min Scan# 4342

Delta R.T. -0.00 min

Lab File: VL037314.D

Acq: 4 Aug 2021 18:05

Tgt Ion:105 Resp: 1114242

Ion Ratio Lower Upper

105 100

120 52.2 39.6 59.4

91 44.8 34.5 51.7

77 18.8 15.3 22.9

Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): V

Ion 77.10 (76.80 to 77.80): V

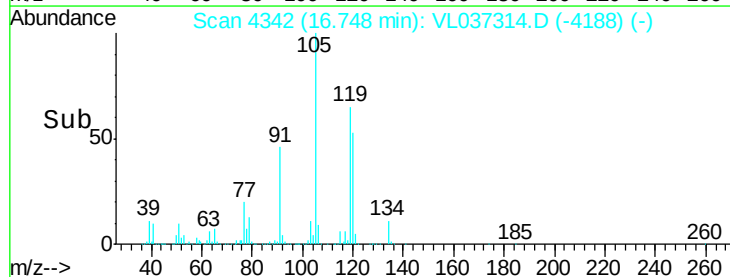
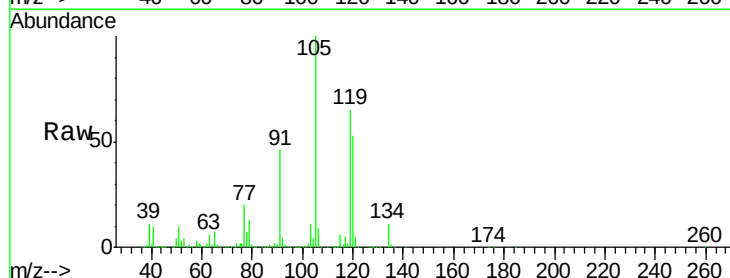
600000

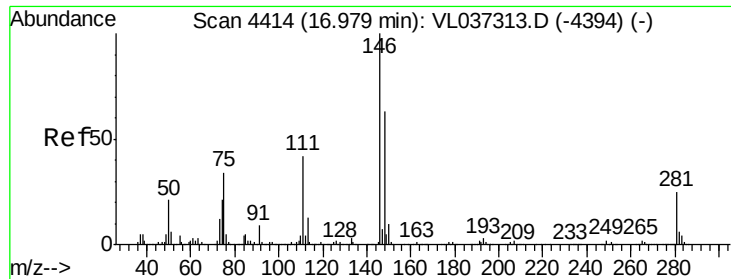
400000

200000

0

Time-->





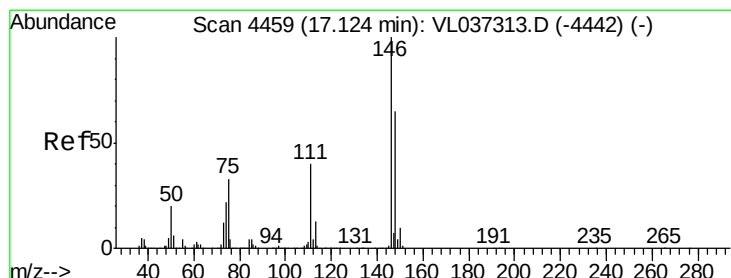
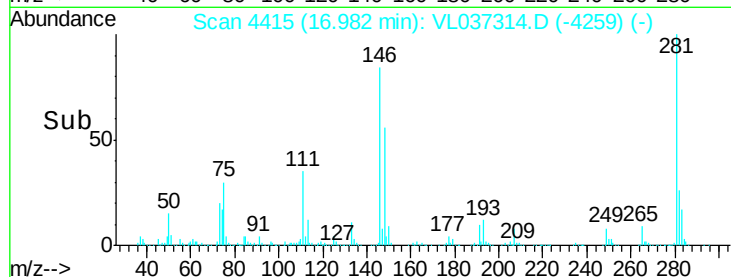
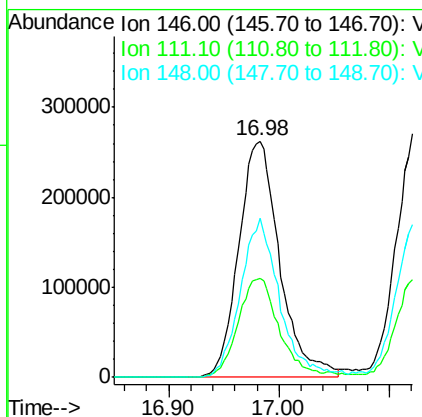
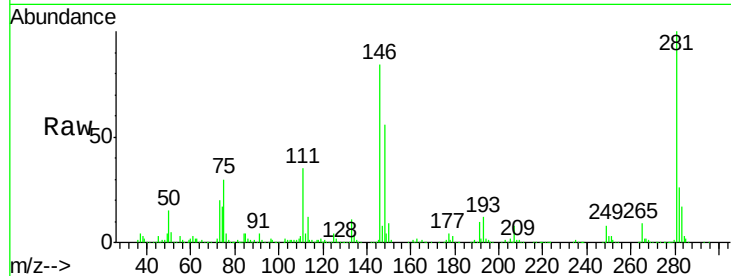
#75
 1,3-Dichlorobenzene
 Concen: 2.227 ppbv
 RT: 16.98 min Scan# 4415
 Delta R.T. 0.00 min
 Lab File: VL037314.D
 Acq: 4 Aug 2021 18:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.1	21.4	64.3
148	64.5	32.6	97.7

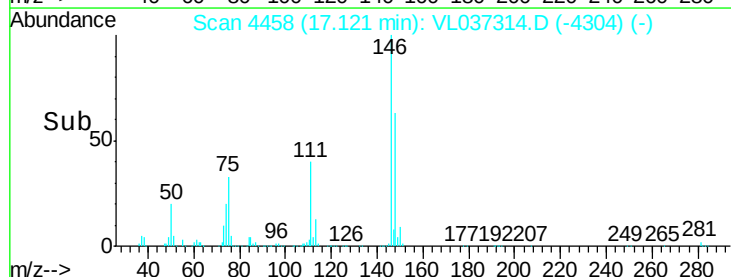
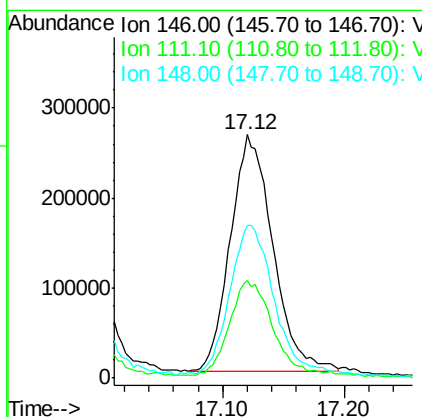
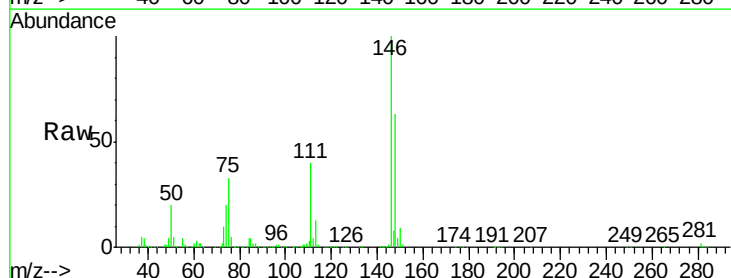
Manual Integrations
 APPROVED

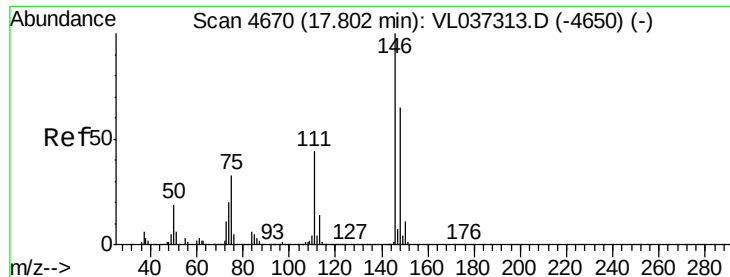
MMDadoda
 8/5/2021 1:39:48 PM



#76
 1,4-Dichlorobenzene
 Concen: 2.156 ppbv
 RT: 17.12 min Scan# 4458
 Delta R.T. -0.00 min
 Lab File: VL037314.D
 Acq: 4 Aug 2021 18:05

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.3	21.0	63.0
148	70.4	33.5	100.4





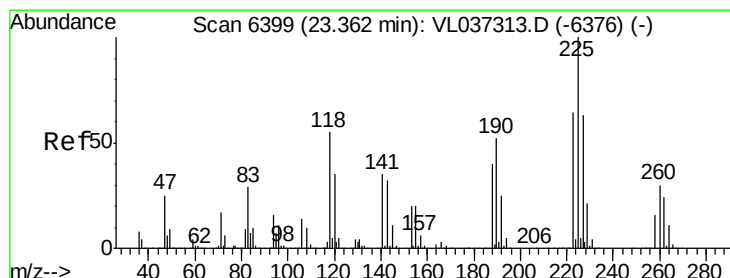
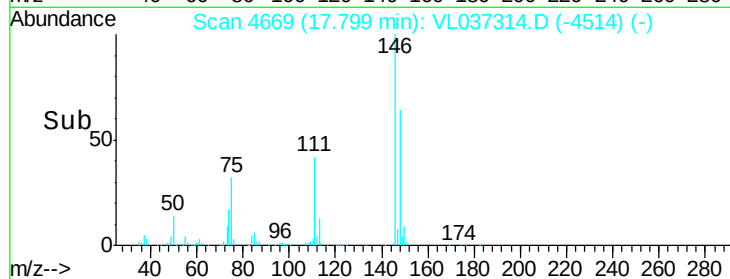
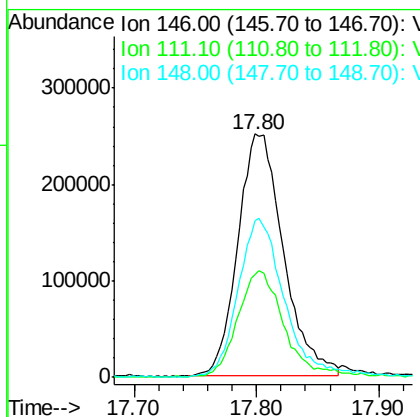
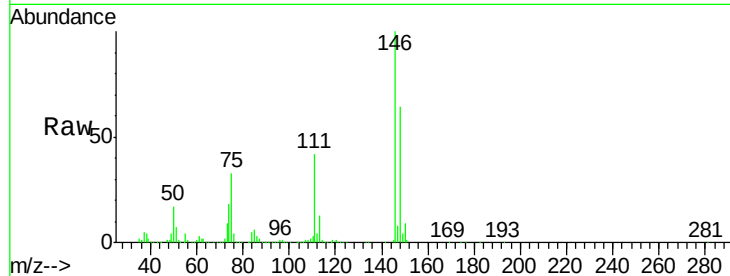
#77
 1,2-Dichlorobenzene
 Concen: 2.238 ppbv
 RT: 17.80 min Scan# 4669
 Delta R.T. -0.00 min
 Lab File: VL037314.D
 Acq: 4 Aug 2021 18:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
146	100	649806		
111	45.2	22.1	66.5	
148	66.3	32.5	97.4	

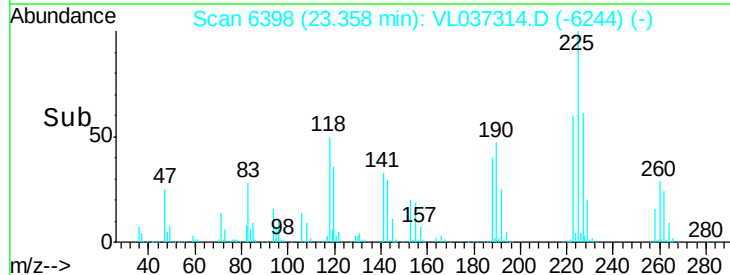
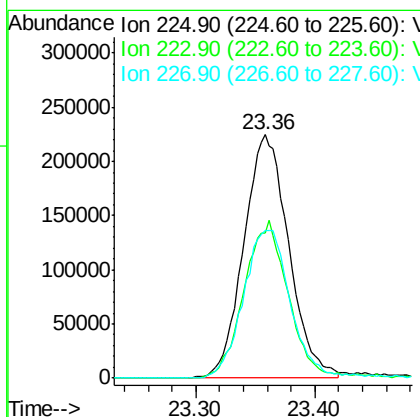
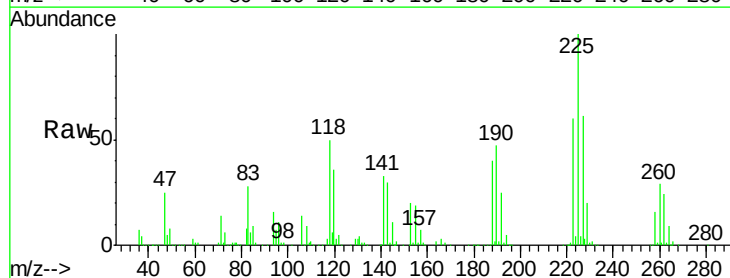
Manual Integrations
 APPROVED

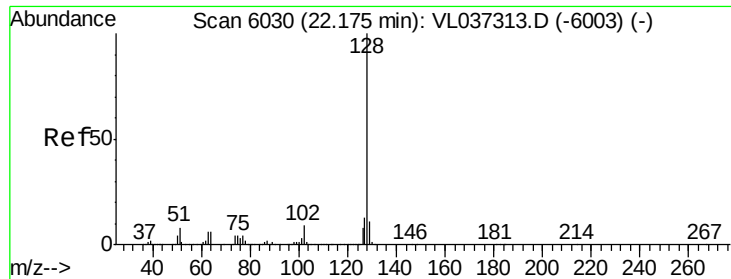
MMDadoda
 8/5/2021 1:39:48 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 2.560 ppbv
 RT: 23.36 min Scan# 6398
 Delta R.T. -0.00 min
 Lab File: VL037314.D
 Acq: 4 Aug 2021 18:05

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	587204		
223	64.9	51.1	76.7	
227	64.6	51.9	77.9	





#79

Naphthalene

Concen: 2.500 ppbv

RT: 22.18 min Scan# 6032

Delta R.T. 0.01 min

Lab File: VL037314.D

Acq: 4 Aug 2021 18:05

Instrument :

MSVOA_L

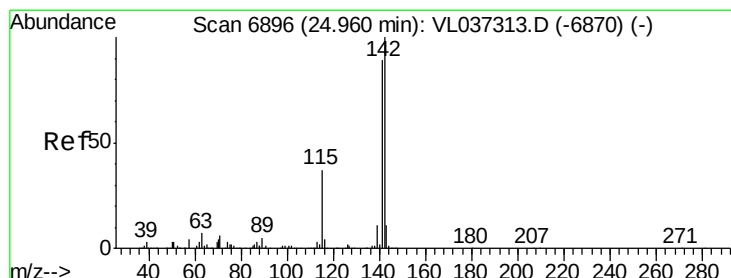
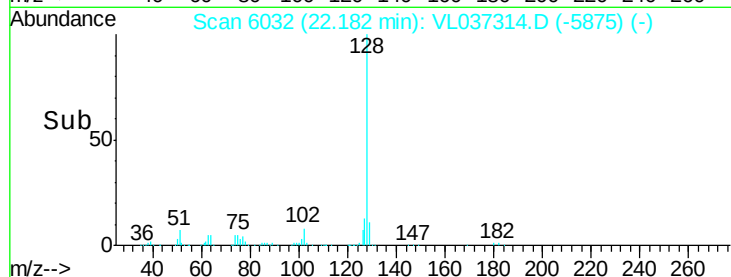
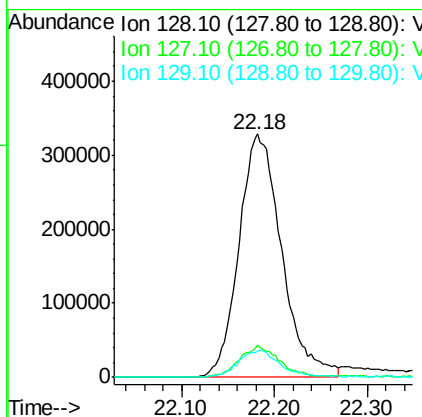
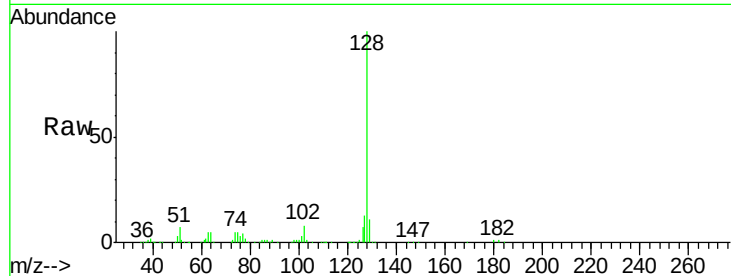
ClientSampleId :

VSTDIC002

Tot Ion:	128	Resp:	1052005
Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.3	15.5
129	10.8	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
8/5/2021 1:39:48 PM



#80

Naphthalene, 2-methyl-

Concen: 2.529 ppbv

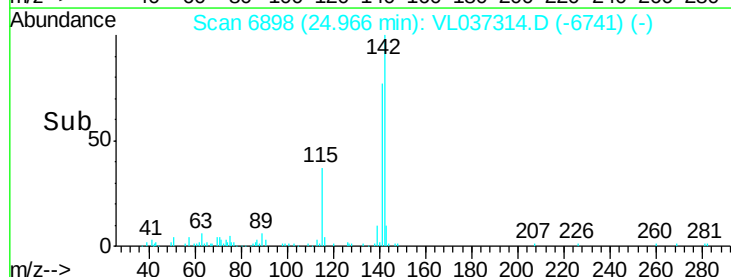
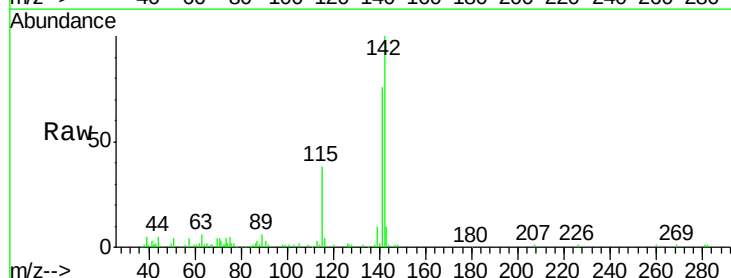
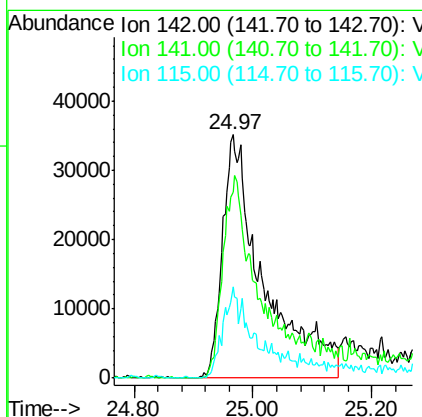
RT: 24.97 min Scan# 6898

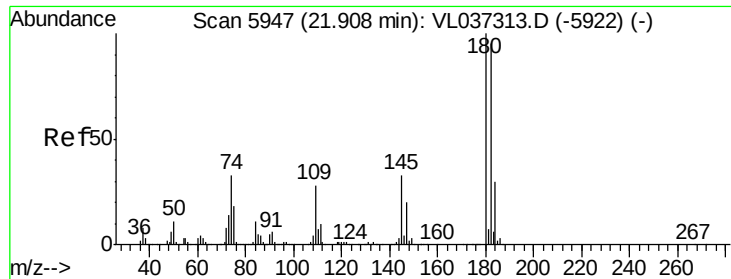
Delta R.T. 0.01 min

Lab File: VL037314.D

Acq: 4 Aug 2021 18:05

Tgt Ion:	142	Resp:	167860
Ion	Ratio	Lower	Upper
142	100		
141	76.8	67.2	100.8
115	29.7	27.9	41.9





#81
 1,2,4-Trichlorobenzene
 Concen: 2.701 ppbv
 RT: 21.91 min Scan# 5948
 Delta R.T. 0.00 min
 Lab File: VL037314.D
 Acq: 4 Aug 2021 18:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
180	100	588598		
182	97.1		78.0	117.0
184	31.4		25.0	37.4

Manual Integrations
 APPROVED

MMDadoda
 8/5/2021 1:39:48 PM

