

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021021\
 Data File : VL036317.D
 Acq On : 10 Feb 2021 13:24
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 2/12/2021 1:41:57 PM

Quant Time: Feb 10 16:02:14 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10
 QLast Update : Wed Feb 10 13:51:24 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1529841	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	3444037	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3121658	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2589043	10.02	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.20%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.03	85	146039	0.712	ppbv	94
3) Chlorodifluoromethane	2.97	51	107403	0.572	ppbv	100
4) Chloromethane	3.12	50	50118m	0.540	ppbv	
5) Vinyl Chloride	3.24	62	46241m	0.526	ppbv	
6) Bromomethane	3.46	94	28636m	0.583	ppbv	
7) Chloroethane	3.54	64	14536m	0.480	ppbv	
8) Dichlorotetrafluoroethane	3.17	85	110880	0.558	ppbv	93
9) Propene	3.28	41	15353m	0.172	ppbv	
10) Heptane	8.10	43	102050	0.460	ppbv	97
11) Trichlorofluoromethane	3.93	101	122350	0.587	ppbv	84
12) 1,1,2-Trichlorotrifluoroet	4.46	101	78347	0.620	ppbv	99
13) Ethanol	3.60	45	7187m	0.512	ppbv	
14) Bromoethene	3.72	108	31385	0.545	ppbv #	96
15) Acetone	3.84	43	104995	0.560	ppbv #	86
16) 1,3-Butadiene	3.31	39	44639m	0.489	ppbv	
17) tert-Butyl alcohol	4.29	59	85642m	0.554	ppbv	
18) 1,1-Dichloroethene	4.27	96	33950m	0.579	ppbv	
19) Isopropyl Alcohol	3.96	45	65978m	0.584	ppbv	
20) Methylene Chloride	4.32	84	36499m	0.610	ppbv	
21) Allyl Chloride	4.39	41	54597m	0.535	ppbv	
22) trans-1,2-Dichloroethene	4.86	96	32258m	0.596	ppbv	
23) Vinyl Acetate	5.05	43	115620m	0.509	ppbv	
24) 1,1-Dichloroethane	4.99	63	92806m	0.564	ppbv	
25) Ethyl Acetate	5.66	43	196306m	0.522	ppbv	
26) Hexane	5.66	57	80795m	0.516	ppbv	
27) Carbon Disulfide	4.53	76	62734m	0.501	ppbv	
28) Methyl tert-Butyl Ether	5.02	73	101006m	0.477	ppbv	
29) Chloroform	5.73	83	131131m	0.585	ppbv	
30) Cyclohexane	7.11	84	65265m	0.545	ppbv	
31) cis-1,2-Dichloroethene	5.53	61	77809m	0.520	ppbv	
32) 1,1,1-Trichloroethane	6.49	97	121238m	0.559	ppbv	
34) 2-Butanone	5.23	43	123644m	0.488	ppbv	
35) Carbon Tetrachloride	6.99	117	114341m	0.525	ppbv	
36) Benzene	6.87	78	147327	0.467	ppbv	96
37) 1,2-Dichloroethane	6.28	62	95456	0.503	ppbv	99
38) Trichloroethene	7.81	130	54839m	0.469	ppbv	
39) 1,2-Dichloropropane	7.59	63	59913	0.468	ppbv	94
40) 1,4-Dioxane	7.84	88	25182m	0.543	ppbv	
41) Tetrahydrofuran	6.05	42	60220m	0.411	ppbv	
42) Bromodichloromethane	7.77	83	125498m	0.526	ppbv	
43) Methyl Methacrylate	8.00	69	58768m	0.438	ppbv	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021021\
 Data File : VL036317.D
 Acq On : 10 Feb 2021 13:24
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 2/12/2021 1:41:57 PM

Quant Time: Feb 10 16:02:14 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10
 QLast Update : Wed Feb 10 13:51:24 2021
 Response via : Initial Calibration

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

44) 2,2,4-Trimethylpentane	7.84	57	284371	0.491	ppbv	98
45) t-1,3-Dichloropropene	9.25	75	46861	0.368	ppbv	97
46) cis-1,3-Dichloropropene	8.68	75	68393m	0.418	ppbv	
47) 1,1,2-Trichloroethane	9.45	97	66334m	0.541	ppbv	
48) Dibromochloromethane	10.28	129	86181m	0.481	ppbv	
49) Bromoform	13.01	173	65736m	0.439	ppbv	
50) 4-Methyl-2-Pentanone	8.74	43	168576m	0.446	ppbv	
51) 2-Hexanone	10.13	43	112806m	0.378	ppbv	
52) Tetrachloroethene	11.20	164	52479m	0.451	ppbv	
53) Toluene	9.79	91	152164m	0.431	ppbv	
54) 1,2-Dibromoethane	10.59	107	91949m	0.506	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.10	131	78252	0.562	ppbv #	1
57) Chlorobenzene	12.12	112	138205	0.564	ppbv	99
58) Ethyl Benzene	12.69	91	209557	0.452	ppbv	93
59) m/p-Xylene	12.97	91	390724m	0.982	ppbv	
60) o-Xylene	13.67	91	190059	0.495	ppbv	97
61) Styrene	13.51	104	101266m	0.418	ppbv	
62) Isopropylbenzene	14.64	105	289629	0.508	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.66	83	142036	0.497	ppbv	93
64) n-propylbenzene	15.54	120	67727	0.483	ppbv	76
65) tert-Butylbenzene	16.73	119	237829	0.492	ppbv	92
66) Benzyl Chloride	16.97	91	49161m	0.398	ppbv	
67) sec-Butylbenzene	17.27	105	357681m	0.498	ppbv	
69) p-Isopropyltoluene	17.64	119	255646	0.449	ppbv	97
70) n-Butylbenzene	18.54	91	274232m	0.452	ppbv	
71) 2-Chlorotoluene	15.43	91	213879	0.477	ppbv	97
72) 4-Ethyltoluene	15.82	105	194787	0.450	ppbv	98
73) 1,3,5-Trimethylbenzene	15.98	105	199566m	0.484	ppbv	
74) 1,2,4-Trimethylbenzene	16.74	105	202878	0.479	ppbv #	90
75) 1,3-Dichlorobenzene	16.98	146	120874m	0.532	ppbv	
76) 1,4-Dichlorobenzene	17.12	146	122605m	0.547	ppbv	
77) 1,2-Dichlorobenzene	17.80	146	111722m	0.504	ppbv	
78) Hexachloro-1,3-Butadiene	23.36	225	104069m	0.587	ppbv	
79) Naphthalene	22.19	128	91820m	0.371	ppbv	
80) Naphthalene, 2-methyl-	24.99	142	20545m	0.389	ppbv	
81) 1,2,4-Trichlorobenzene	21.91	180	70201m	0.486	ppbv	

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

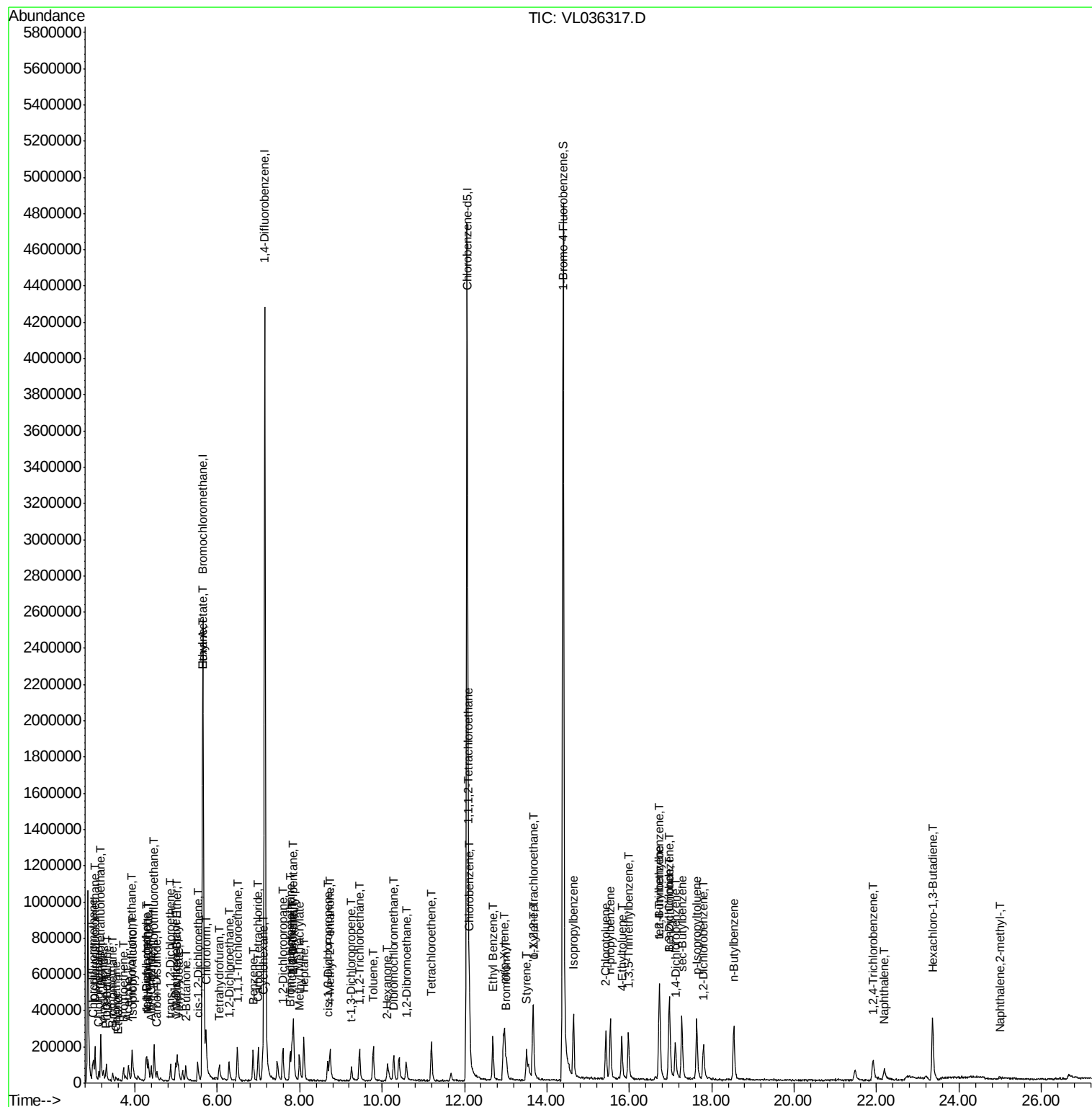
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021021\
Data File : VL036317.D
Acq On : 10 Feb 2021 13:24
Operator : SY/AP
Sample : VSTDIC0.5
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

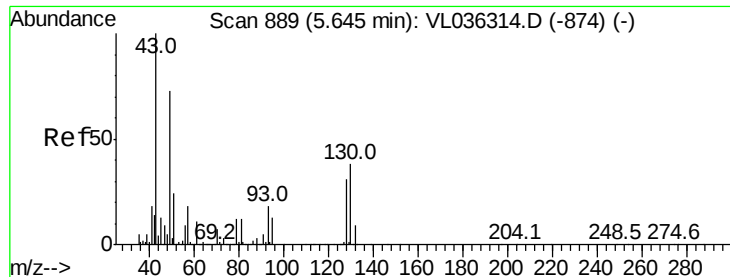
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Manual Integrations
APPROVED

MMDadoda
2/12/2021 1:41:57 PM

Quant Time: Feb 10 16:02:14 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb
QLast Update : Wed Feb 10 13:51:24 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. 0.00 min

Lab File: VL036317.D

Acq: 10 Feb 2021 13:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 49 Resp: 1529841

Ion Ratio Lower Upper

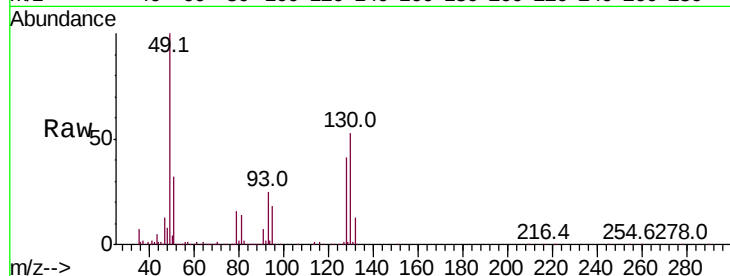
49 100

128 41.6 20.8 62.5

130 55.1 26.7 80.1

Manual Integrations
APPROVED

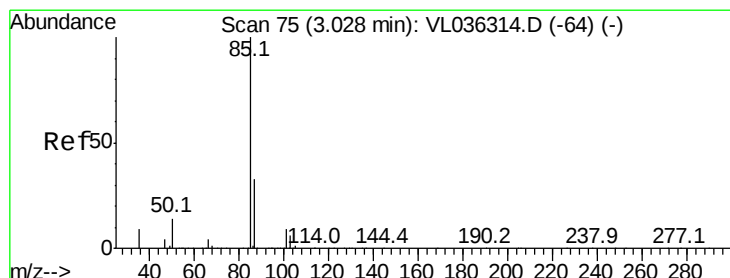
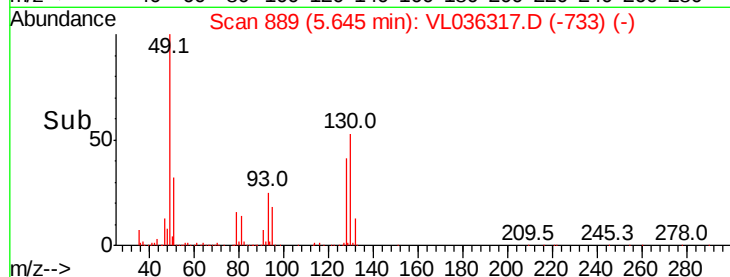
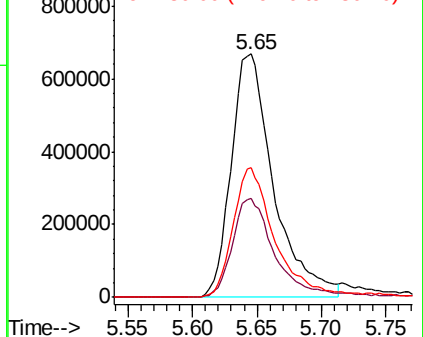
MMDadoda
2/12/2021 1:41:57 PM



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: 0.712 ppbv

RT: 3.03 min Scan# 76

Delta R.T. 0.00 min

Lab File: VL036317.D

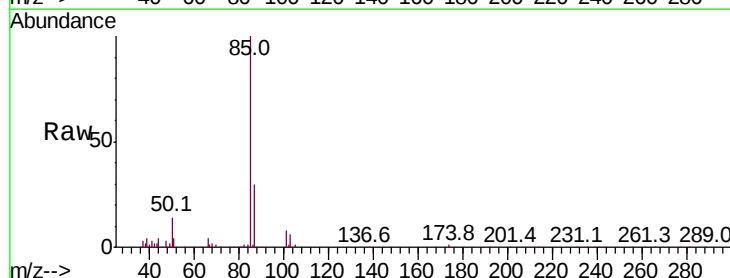
Acq: 10 Feb 2021 13:24

Tgt Ion: 85 Resp: 146039

Ion Ratio Lower Upper

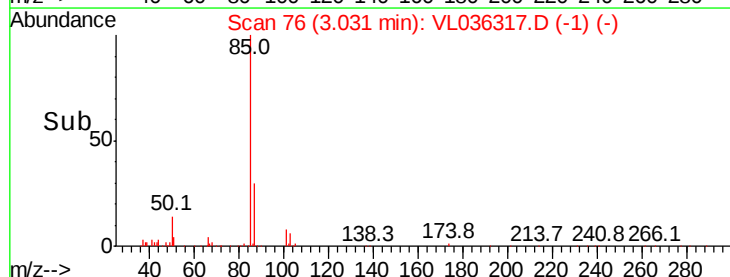
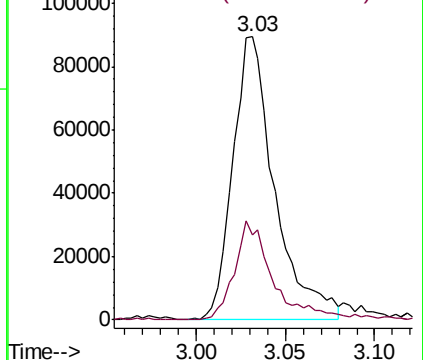
85 100

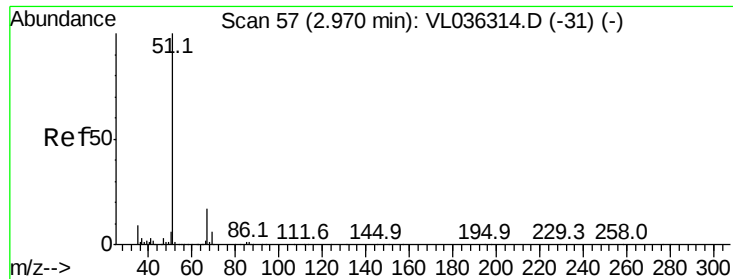
87 29.9 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.572 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.00 min

Lab File: VL036317.D

Acq: 10 Feb 2021 13:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 51 Resp: 107403

Ion Ratio Lower Upper

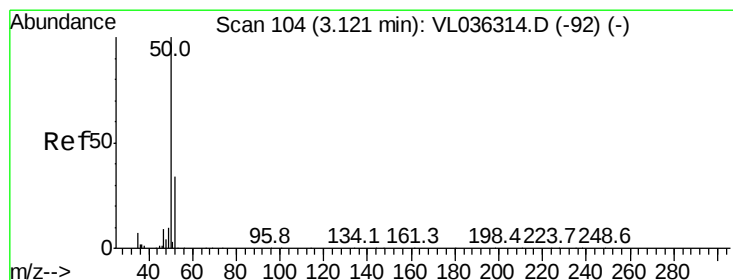
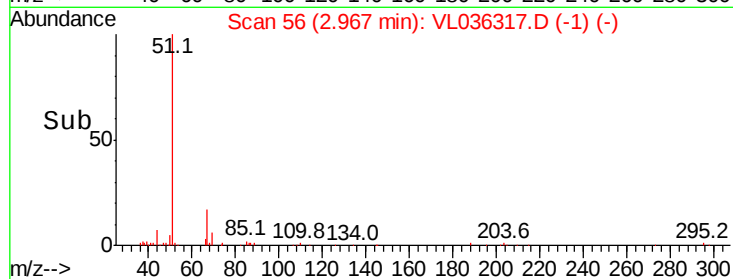
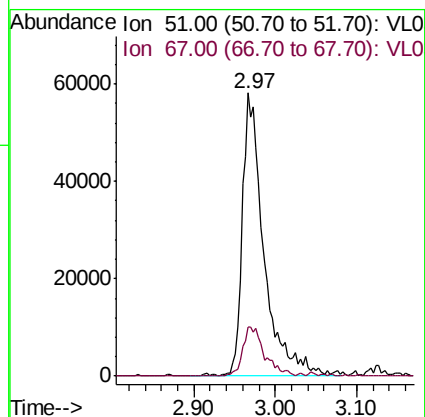
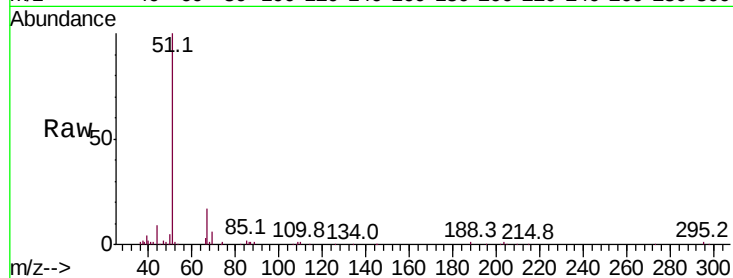
51 100

67 18.6 14.7 22.1

Manual Integrations
APPROVED

MMDadoda

2/12/2021 1:41:57 PM



#4

Chloromethane

Concen: 0.540 ppbv m

RT: 3.12 min Scan# 105

Delta R.T. 0.00 min

Lab File: VL036317.D

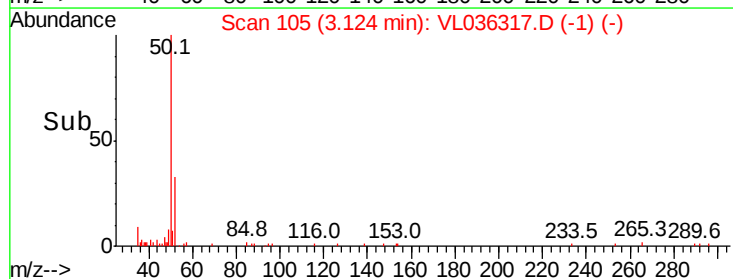
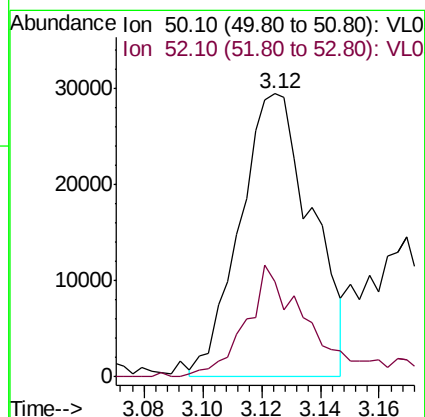
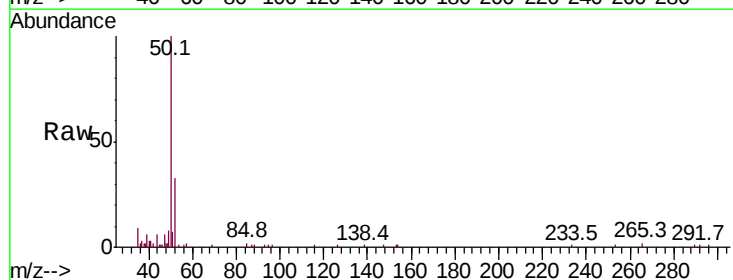
Acq: 10 Feb 2021 13:24

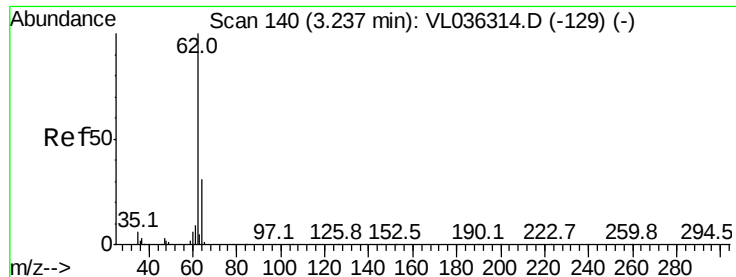
Tgt Ion: 50 Resp: 50118

Ion Ratio Lower Upper

50 100

52 33.5 27.0 40.4





#5

Vinyl Chloride

Concen: 0.526 ppbv m

RT: 3.24 min Scan# 141

Delta R.T. 0.00 min

Lab File: VL036317.D

Acq: 10 Feb 2021 13:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 62 Resp: 46241

Ion Ratio Lower Upper

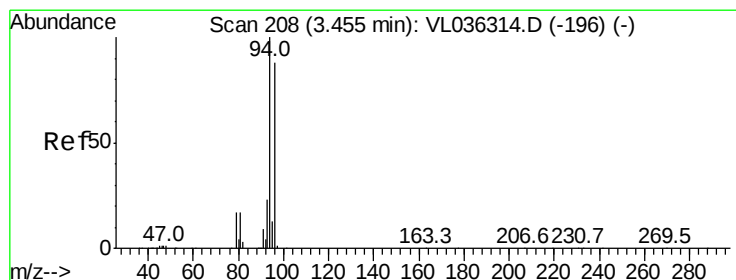
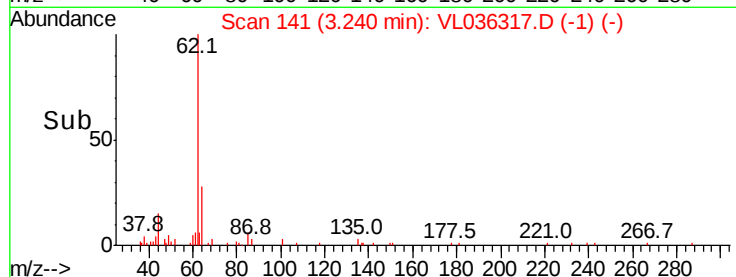
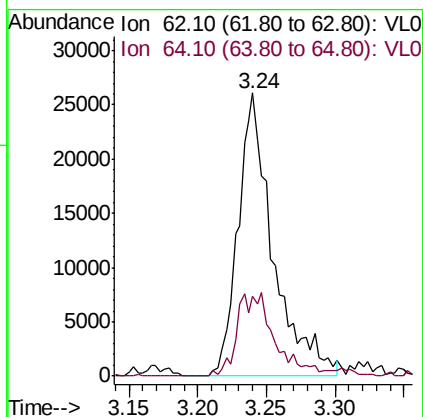
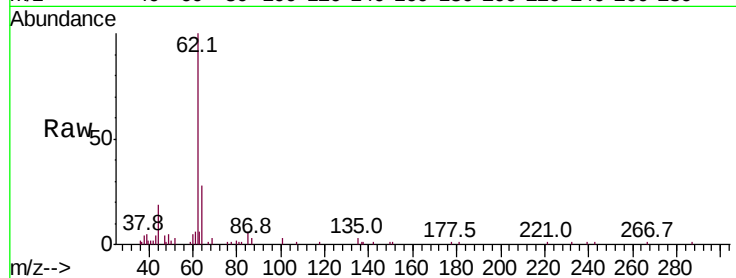
62 100

64 28.3 24.4 36.6

Manual Integrations
APPROVED

MMDadoda

2/12/2021 1:41:57 PM



#6

Bromomethane

Concen: 0.583 ppbv m

RT: 3.46 min Scan# 210

Delta R.T. 0.01 min

Lab File: VL036317.D

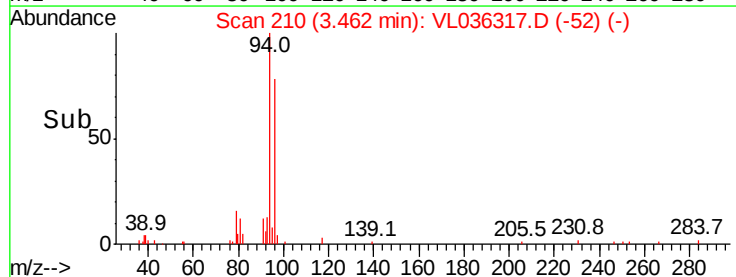
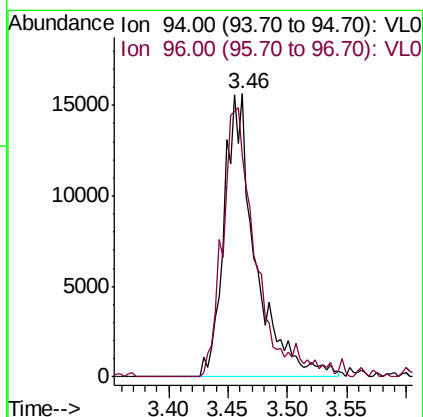
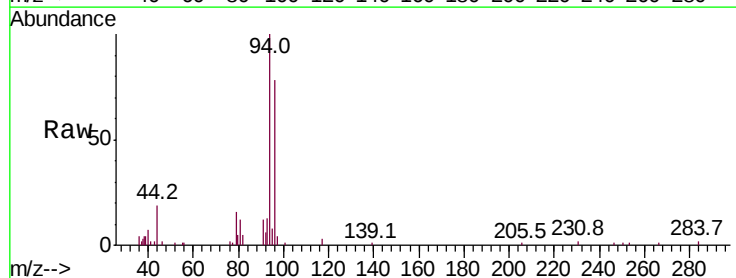
Acq: 10 Feb 2021 13:24

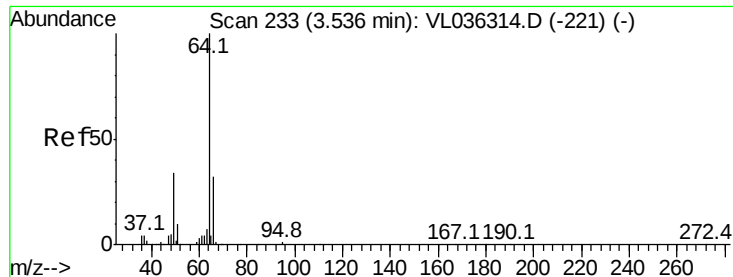
Tgt Ion: 94 Resp: 28636

Ion Ratio Lower Upper

94 100

96 78.2 70.8 106.2





#7

Chloroethane

Concen: 0.480 ppbv m

RT: 3.54 min Scan# 234

Delta R.T. 0.00 min

Lab File: VL036317.D

Acq: 10 Feb 2021 13:24

Instrument :

MSVOA_L

ClientSampled :

VSTDIC0.5

Tot Ion: 64 Resp: 14536

Ion Ratio Lower Upper

64 100

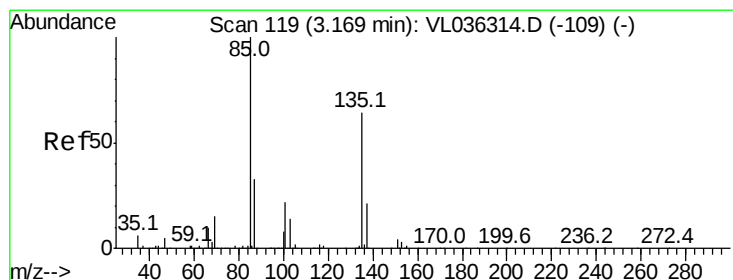
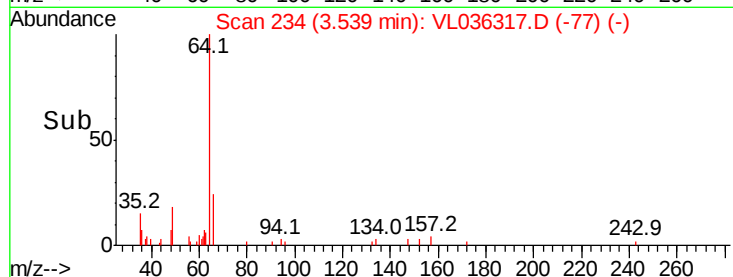
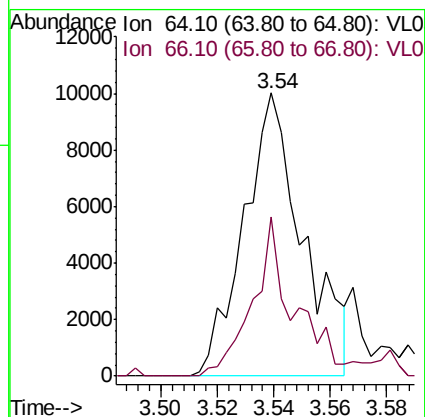
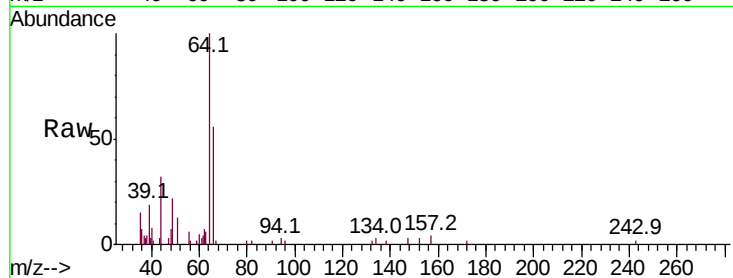
66 56.1 25.6 38.4#

Manual Integrations

APPROVED

MMDadoda

2/12/2021 1:41:57 PM



#8

Dichlorotetrafluoroethane

Concen: 0.558 ppbv

RT: 3.17 min Scan# 119

Delta R.T. 0.00 min

Lab File: VL036317.D

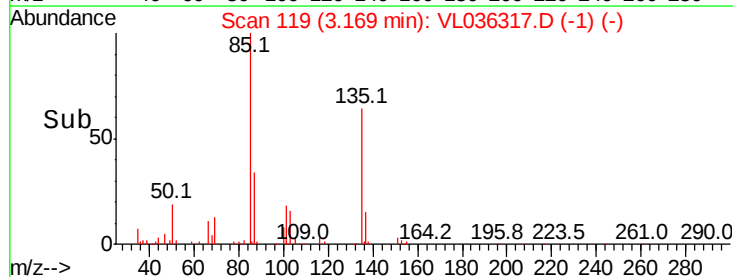
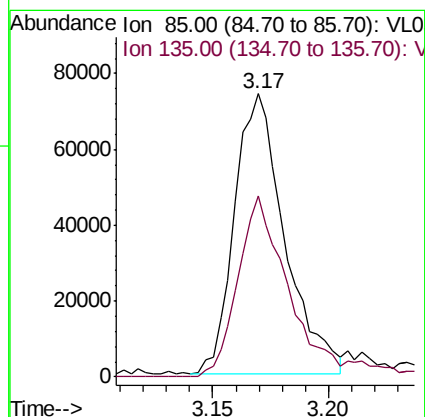
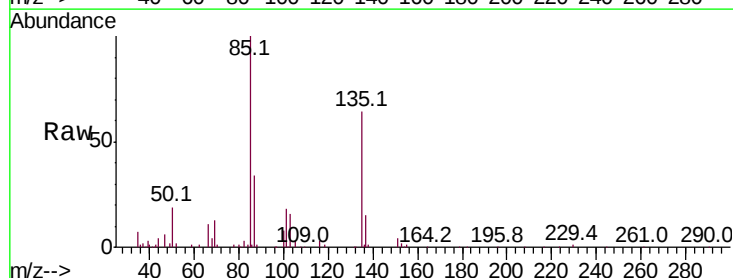
Acq: 10 Feb 2021 13:24

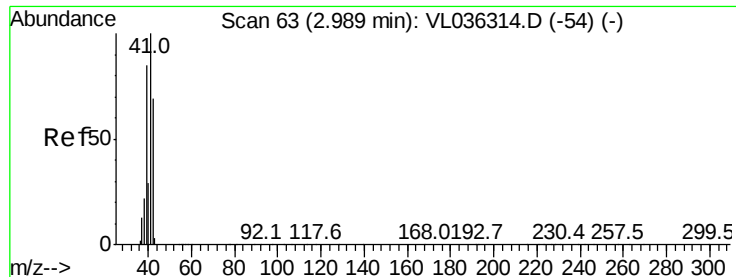
Tgt Ion: 85 Resp: 110880

Ion Ratio Lower Upper

85 100

135 69.6 51.1 76.7





#9

Propene

Concen: 0.172 ppbv m

RT: 3.28 min Scan# 154

Delta R.T. 0.29 min

Lab File: VL036317.D

Acq: 10 Feb 2021 13:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 41 Resp: 15353

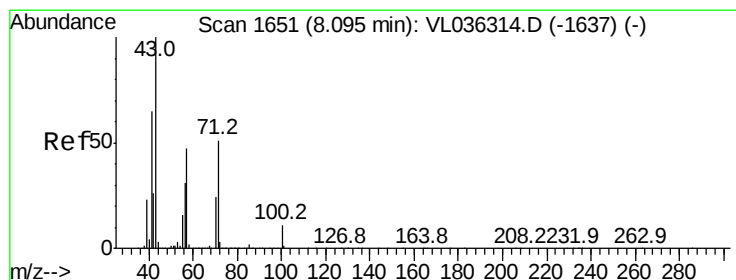
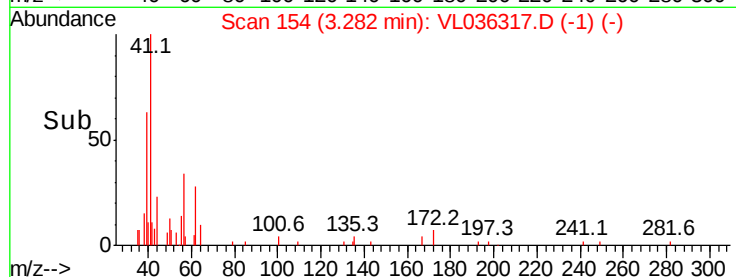
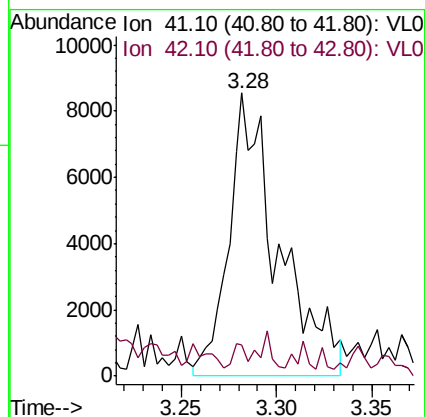
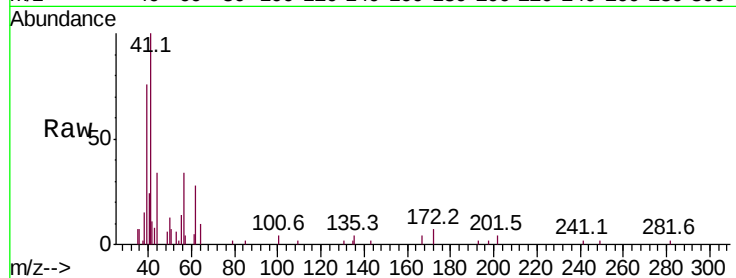
Ion Ratio Lower Upper

41 100

42 16.2 56.2 84.2#

Manual Integrations
APPROVED

MMDadoda
2/12/2021 1:41:57 PM



#10

Heptane

Concen: 0.460 ppbv

RT: 8.10 min Scan# 1653

Delta R.T. 0.01 min

Lab File: VL036317.D

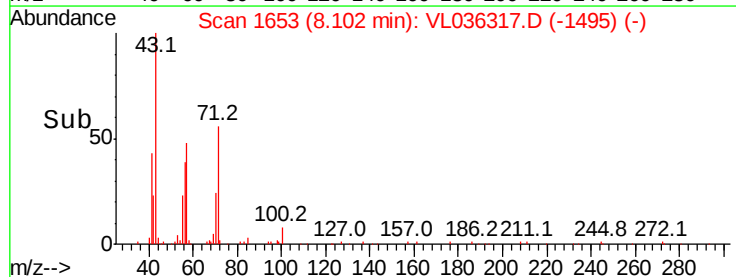
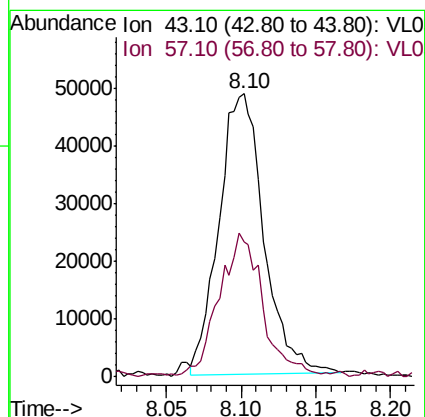
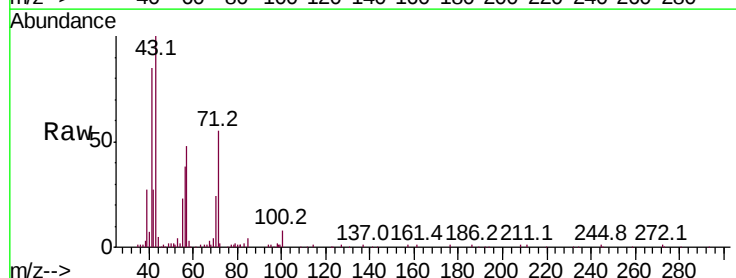
Acq: 10 Feb 2021 13:24

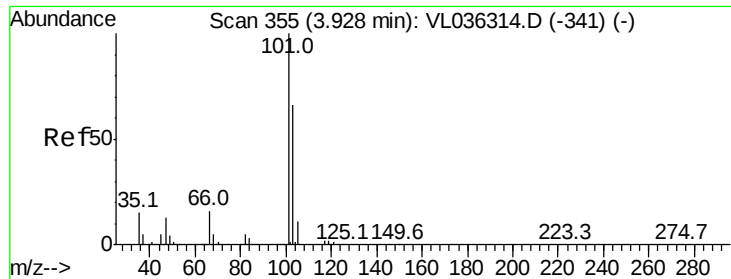
Tgt Ion: 43 Resp: 102050

Ion Ratio Lower Upper

43 100

57 51.2 39.4 59.2





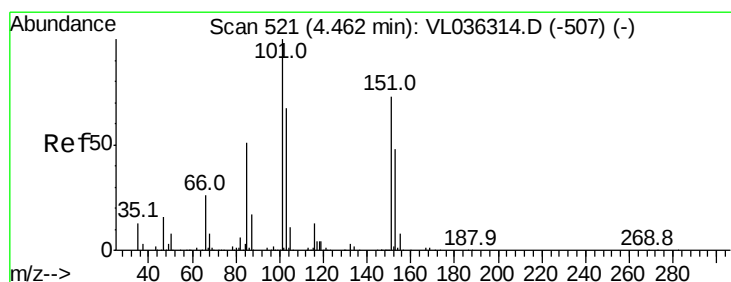
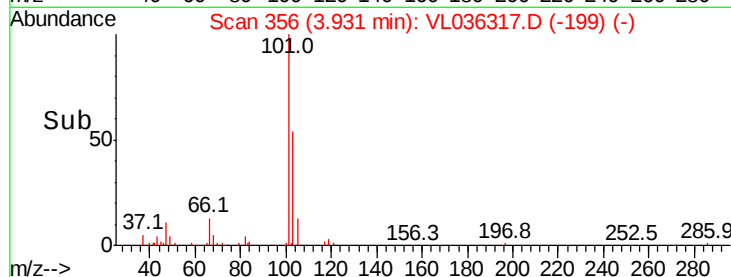
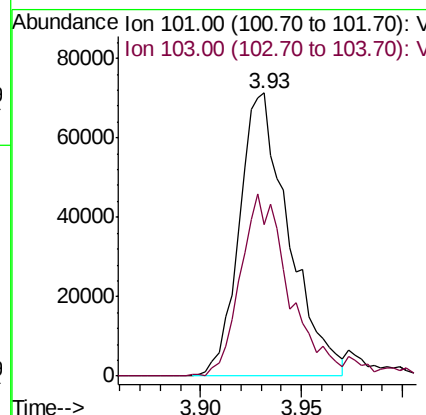
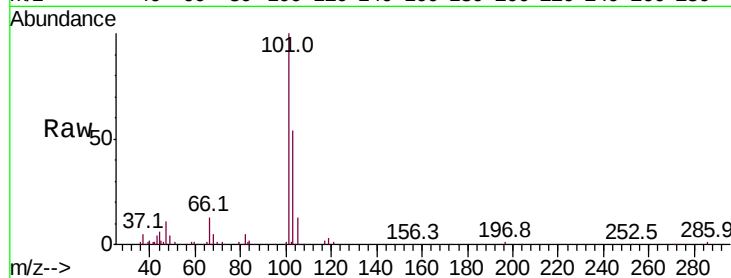
#11
 Trichlorofluoromethane
 Concen: 0.587 ppbv
 RT: 3.93 min Scan# 356
 Delta R.T. 0.00 min
 Lab File: VL036317.D
 Acq: 10 Feb 2021 13:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
101	100		
103	53.0	52.9	79.3

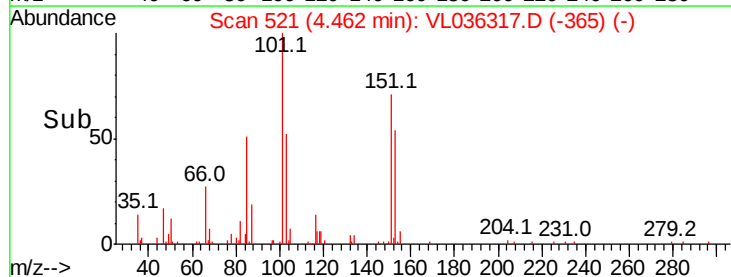
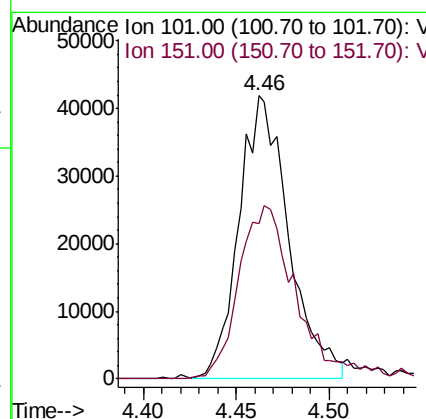
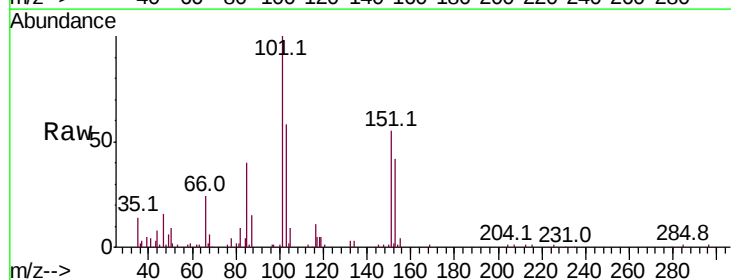
Manual Integrations
 APPROVED

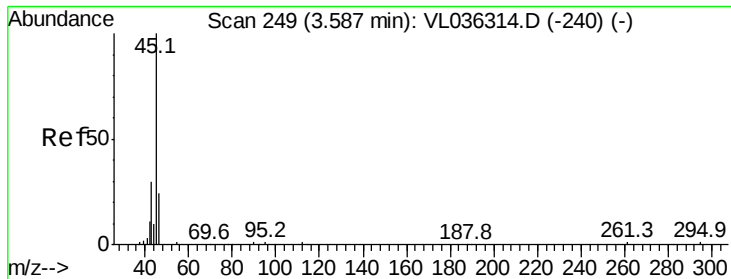
MMDadoda
 2/12/2021 1:41:57 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.620 ppbv
 RT: 4.46 min Scan# 521
 Delta R.T. 0.00 min
 Lab File: VL036317.D
 Acq: 10 Feb 2021 13:24

Tgt Ion	Ratio	Lower	Upper
101	100		
151	71.9	58.2	87.4





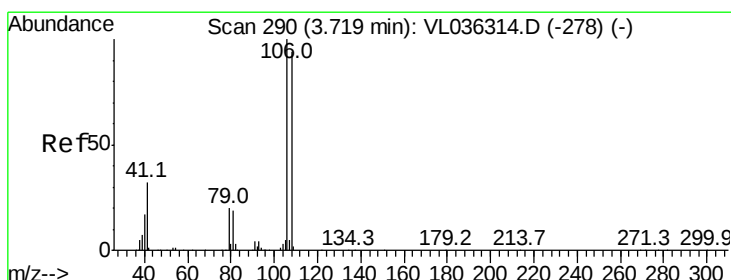
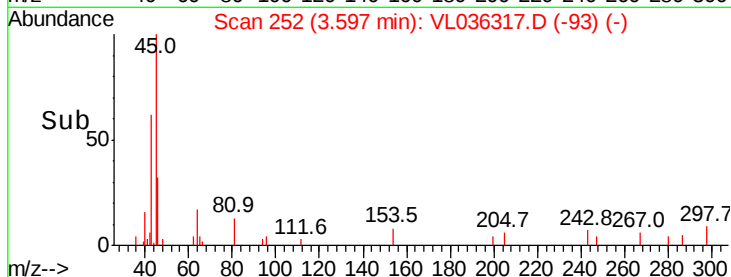
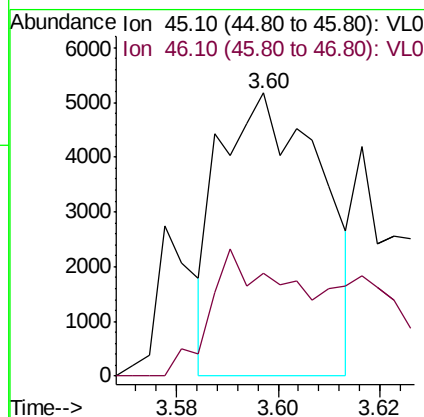
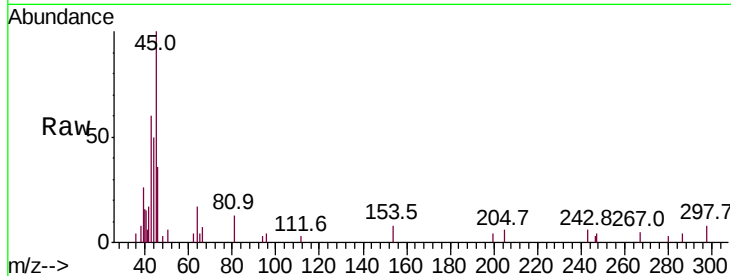
#13
Ethanol
Concen: 0.512 ppbv m
RT: 3.60 min Scan# 252
Delta R.T. 0.01 min
Lab File: VL036317.D
Acq: 10 Feb 2021 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 45 Resp: 7187
Ion Ratio Lower Upper
45 100
46 79.3 17.7 70.7#

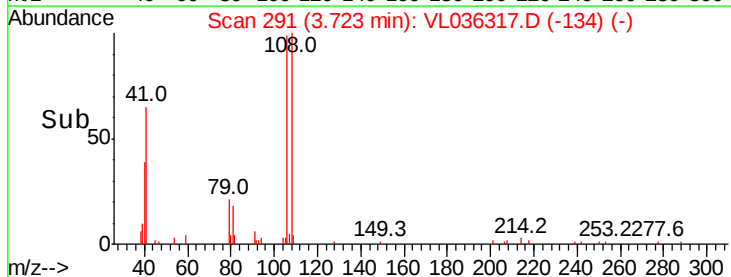
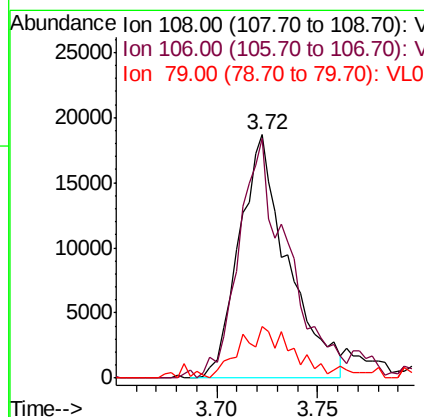
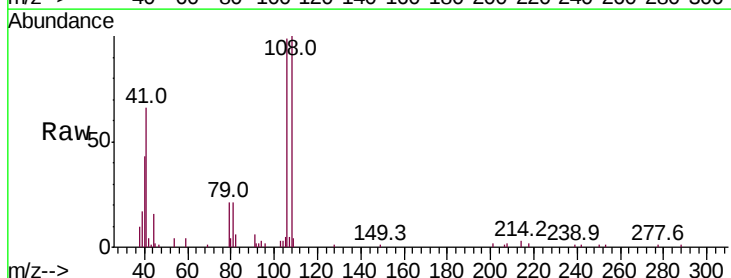
Manual Integrations
APPROVED

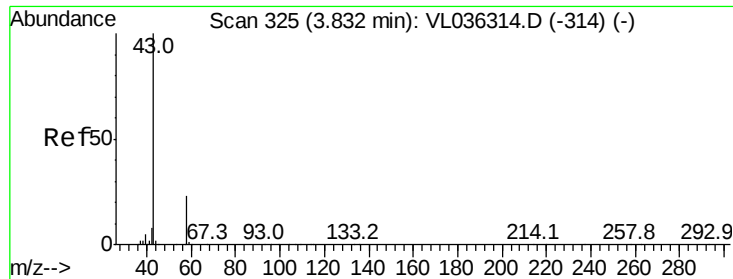
MMDadoda
2/12/2021 1:41:57 PM



#14
Bromoethene
Concen: 0.545 ppbv
RT: 3.72 min Scan# 291
Delta R.T. 0.00 min
Lab File: VL036317.D
Acq: 10 Feb 2021 13:24

Tgt Ion: 108 Resp: 31385
Ion Ratio Lower Upper
108 100
106 110.0 89.8 134.8
79 26.8 17.1 25.7#





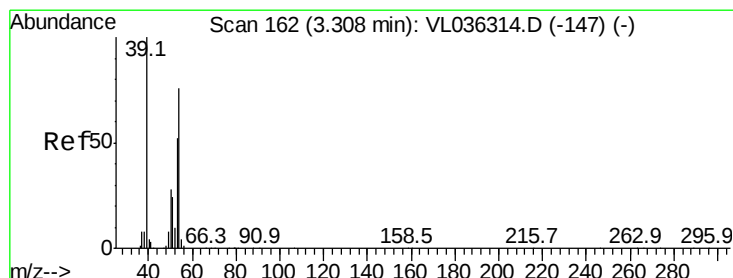
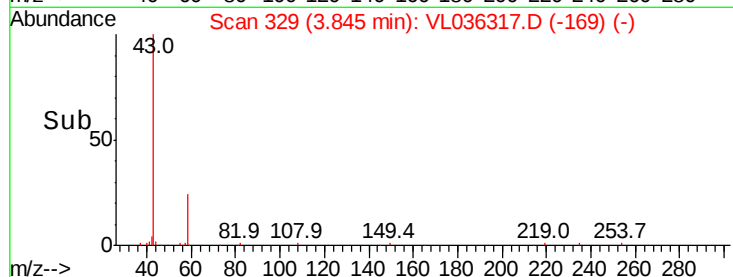
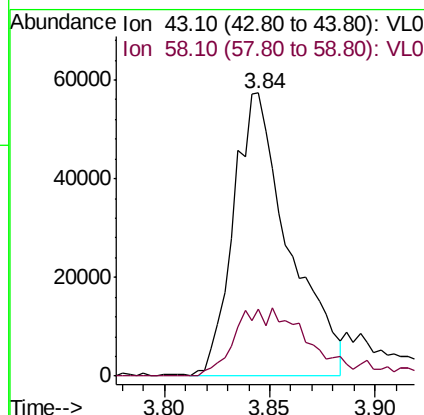
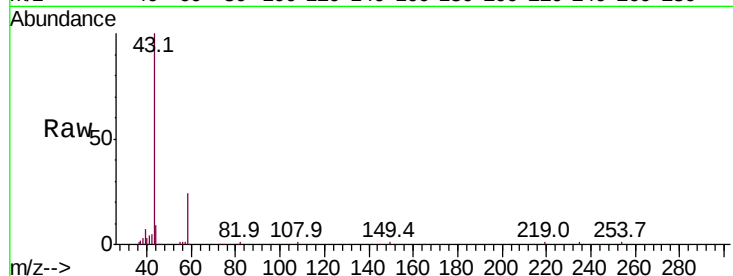
#15
Acetone
Concen: 0.560 ppbv
RT: 3.84 min Scan# 329
Delta R.T. 0.01 min
Lab File: VL036317.D
Acq: 10 Feb 2021 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
43	100		
58	32.3	20.3	30.5#

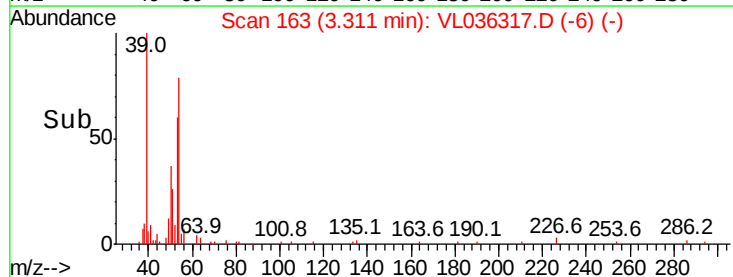
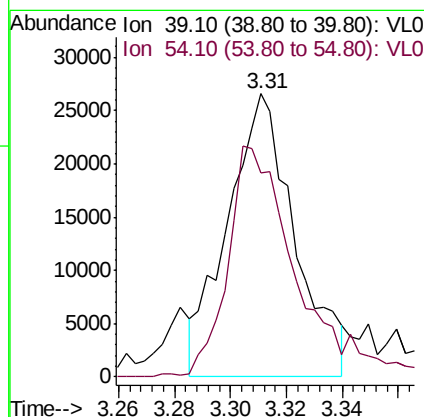
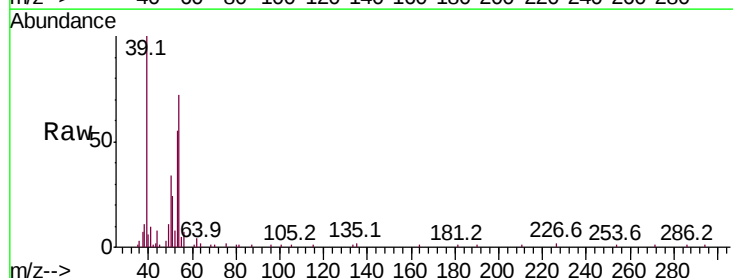
Manual Integrations
APPROVED

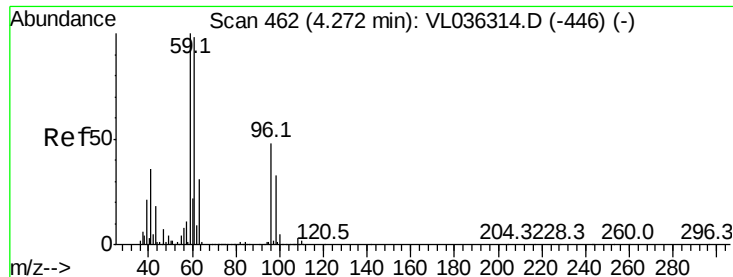
MMDadoda
2/12/2021 1:41:57 PM



#16
1,3-Butadiene
Concen: 0.489 ppbv m
RT: 3.31 min Scan# 163
Delta R.T. 0.00 min
Lab File: VL036317.D
Acq: 10 Feb 2021 13:24

Tgt Ion	Ratio	Lower	Upper
39	100		
54	84.9	64.4	96.6





#17

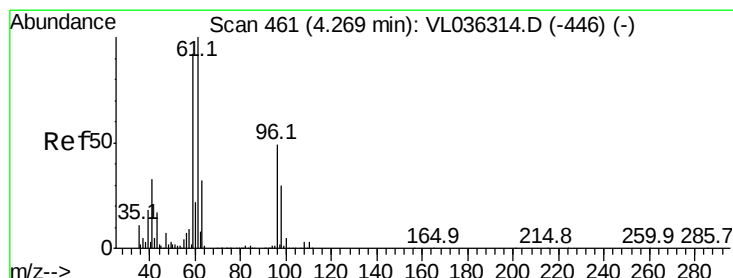
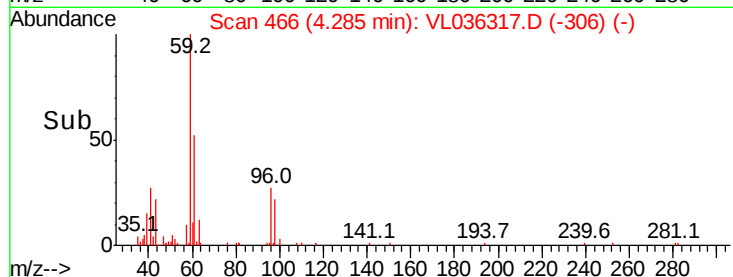
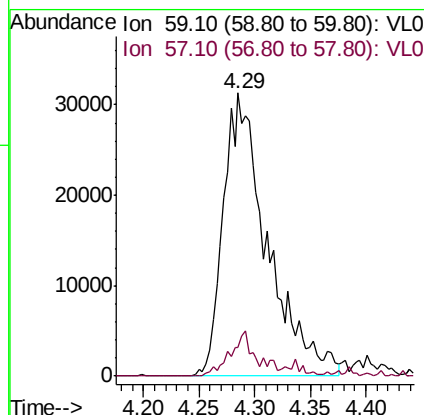
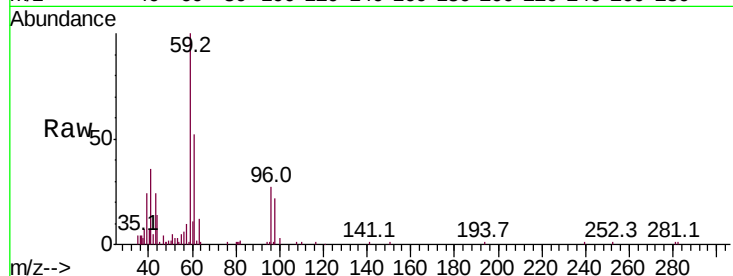
tert-Butyl alcohol
 Concen: 0.554 ppbv m
 RT: 4.29 min Scan# 466
 Delta R.T. 0.01 min
 Lab File: VL036317.D
 Acq: 10 Feb 2021 13:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	9.0	13.4#

Manual Integrations
 APPROVED

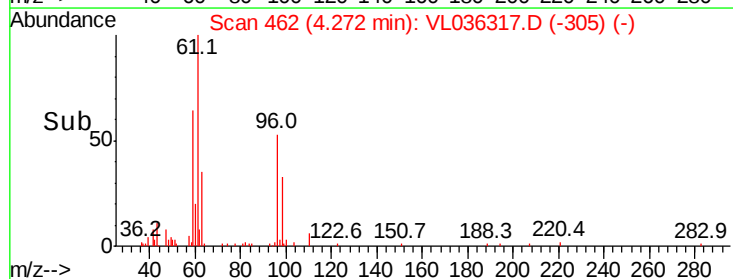
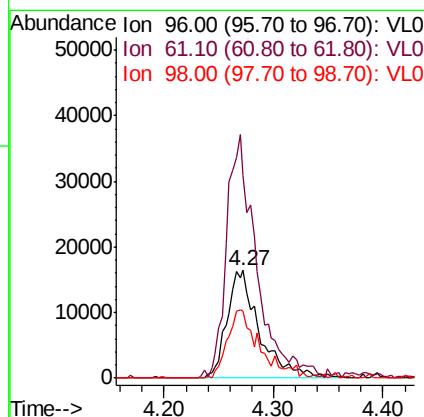
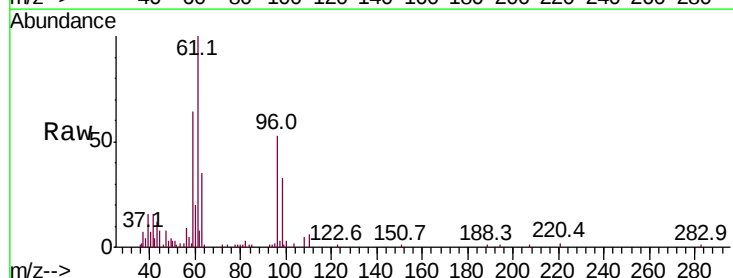
MMDadoda
 2/12/2021 1:41:57 PM

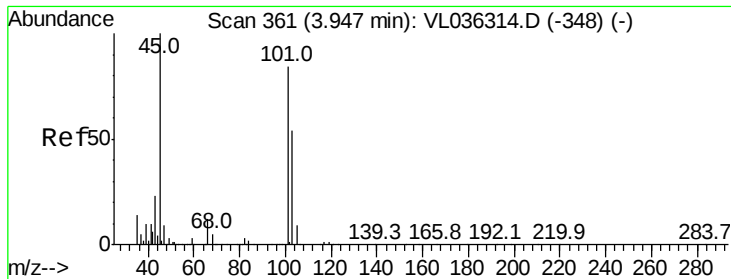


#18

1,1-Dichloroethene
 Concen: 0.579 ppbv m
 RT: 4.27 min Scan# 462
 Delta R.T. 0.00 min
 Lab File: VL036317.D
 Acq: 10 Feb 2021 13:24

Tgt Ion	Ratio	Lower	Upper
96	100		
61	187.4	162.5	243.7
98	62.4	48.5	72.7





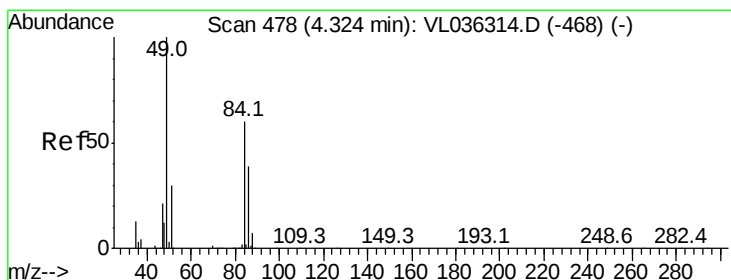
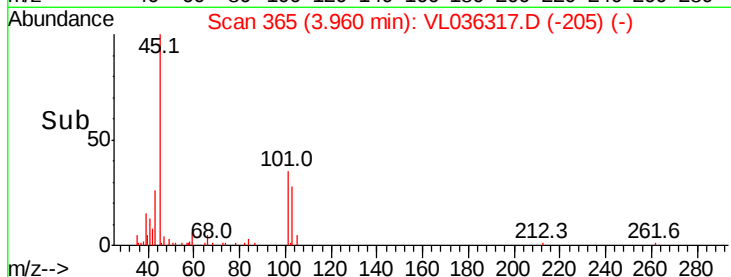
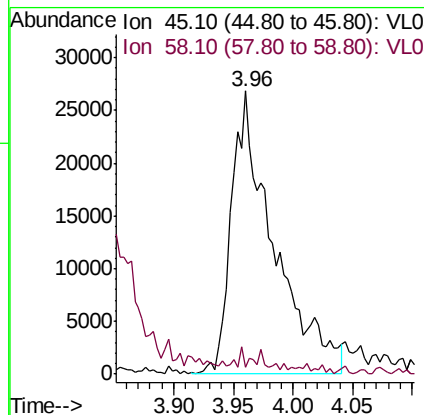
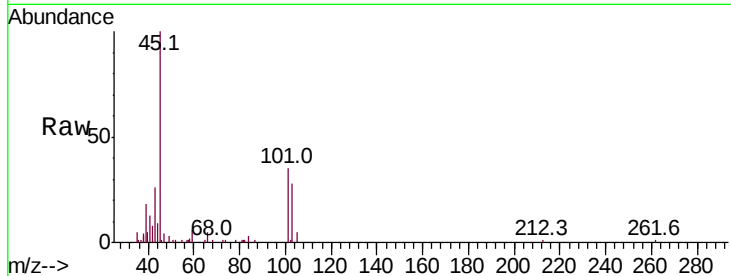
#19
Isopropyl Alcohol
Concen: 0.584 ppbv m
RT: 3.96 min Scan# 365
Delta R.T. 0.01 min
Lab File: VL036317.D
Acq: 10 Feb 2021 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 45 Resp: 65978
Ion Ratio Lower Upper
45 100
58 10.0 1.9 2.9#

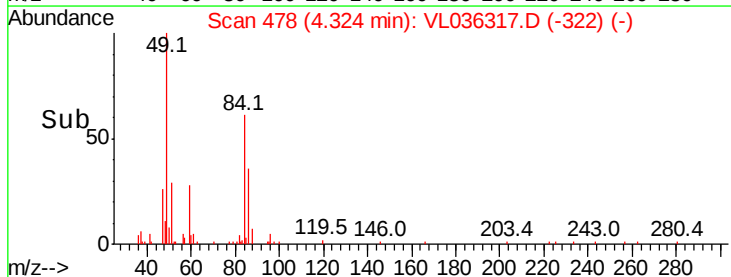
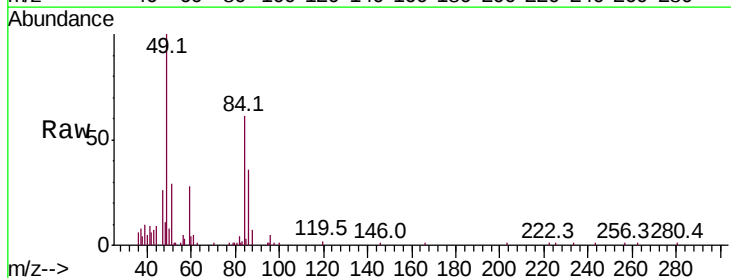
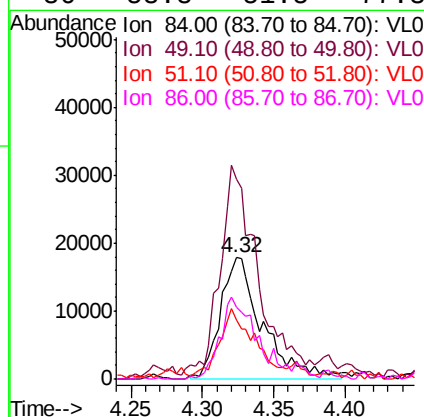
Manual Integrations
APPROVED

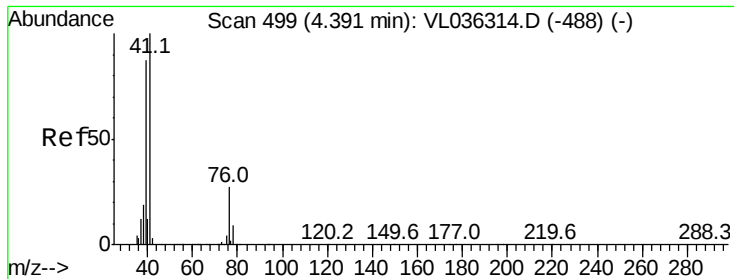
MMDadoda
2/12/2021 1:41:57 PM



#20
Methylene Chloride
Concen: 0.610 ppbv m
RT: 4.32 min Scan# 478
Delta R.T. 0.00 min
Lab File: VL036317.D
Acq: 10 Feb 2021 13:24

Tgt Ion: 84 Resp: 36499
Ion Ratio Lower Upper
84 100
49 164.8 133.8 200.8
51 48.5 41.4 62.0
86 58.8 51.5 77.3





#21

Allvl Chloride

Concen: 0.535 ppbv m

RT: 4.39 min Scan# 498

Delta R.T. -0.00 min

Lab File: VL036317.D

Acq: 10 Feb 2021 13:24

Instrument :

MSVOA_L

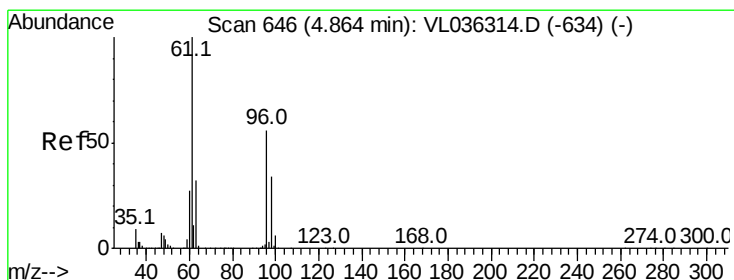
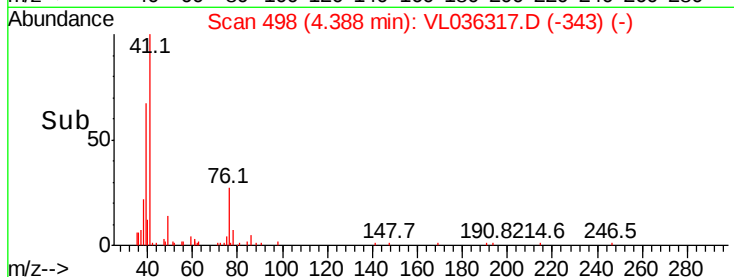
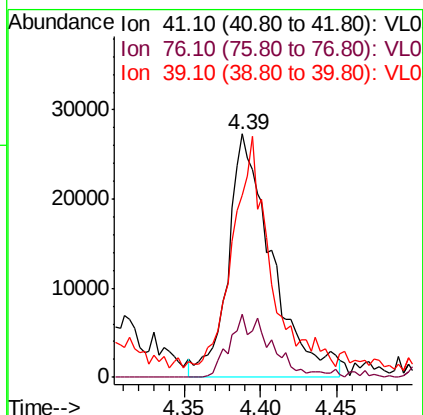
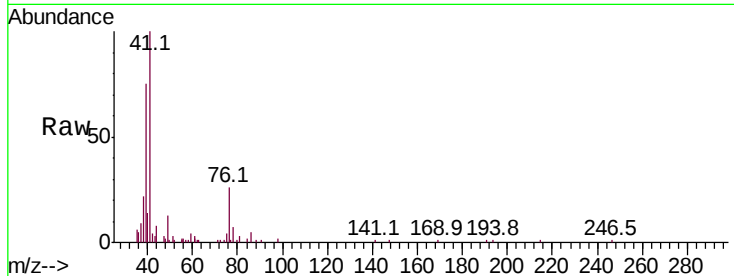
ClientSampleId :

VSTDIC0.5

Tot Ion:	41	Resp:	54597
Ion Ratio	Lower	Upper	
41	100		
76	23.9	22.0	33.0
39	78.5	70.2	105.2

Manual Integrations
APPROVED

MMDadoda
2/12/2021 1:41:57 PM



#22

trans-1,2-Dichloroethene

Concen: 0.596 ppbv m

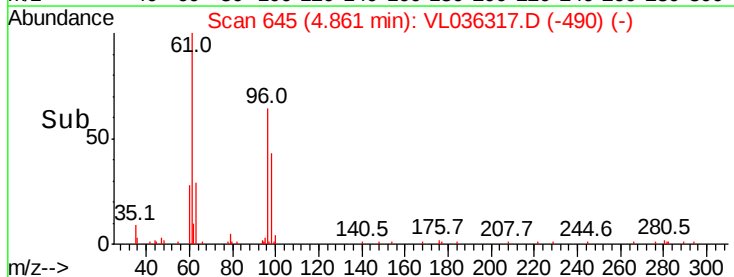
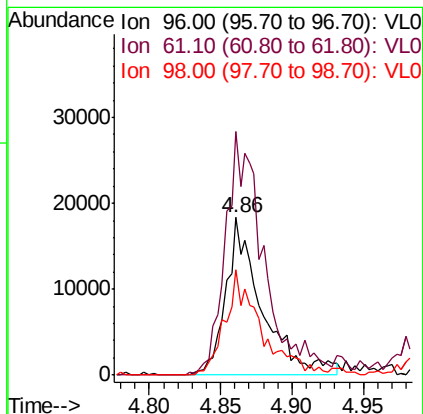
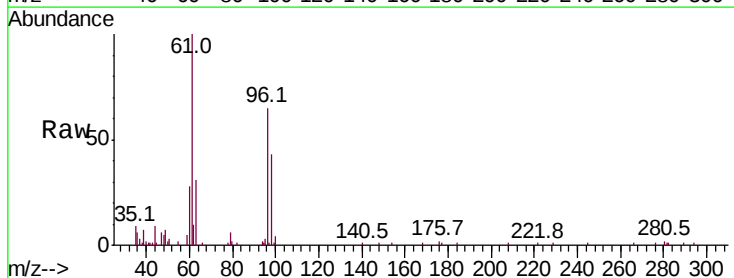
RT: 4.86 min Scan# 645

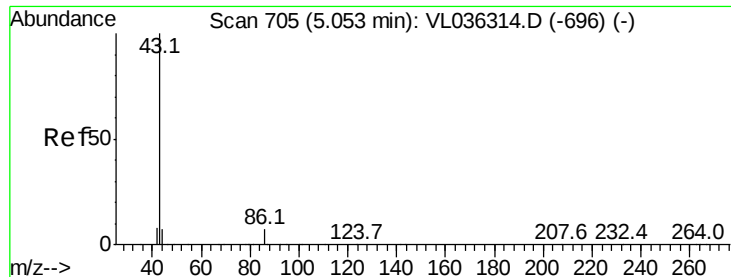
Delta R.T. -0.00 min

Lab File: VL036317.D

Acq: 10 Feb 2021 13:24

Tgt Ion:	96	Resp:	32258
Ion Ratio	Lower	Upper	
96	100		
61	154.6	143.7	215.5
98	66.9	48.5	72.7





#23

Vinyl Acetate

Concen: 0.509 ppbv m

RT: 5.05 min Scan# 705

Delta R.T. 0.00 min

Lab File: VL036317.D

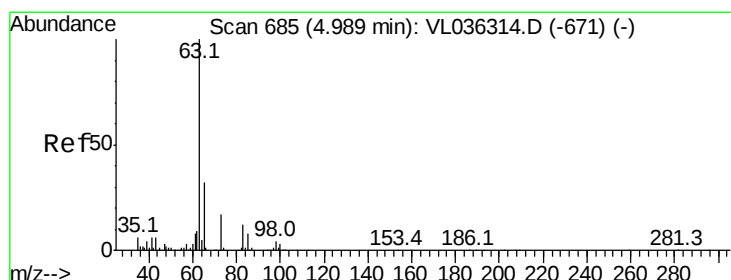
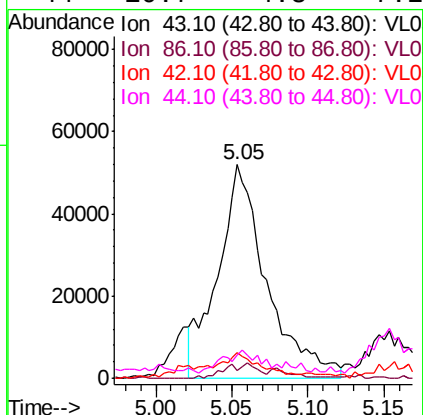
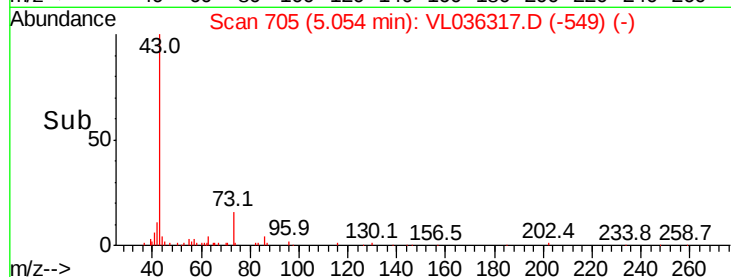
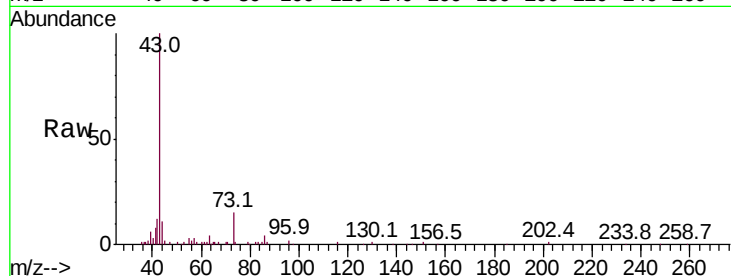
Acq: 10 Feb 2021 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
43	100		
86	3.9	4.8	7.2#
42	11.7	7.4	11.0#
44	10.7	4.8	7.2#

Manual Integrations
APPROVED

MMDadoda
2/12/2021 1:41:57 PM



#24

1,1-Dichloroethane

Concen: 0.564 ppbv m

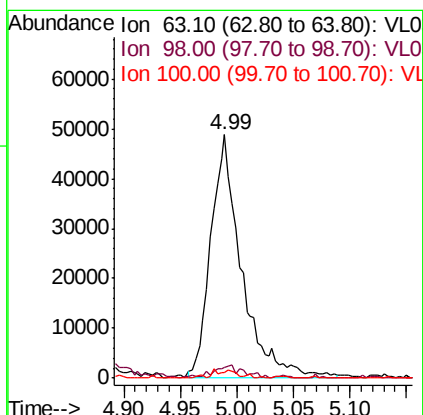
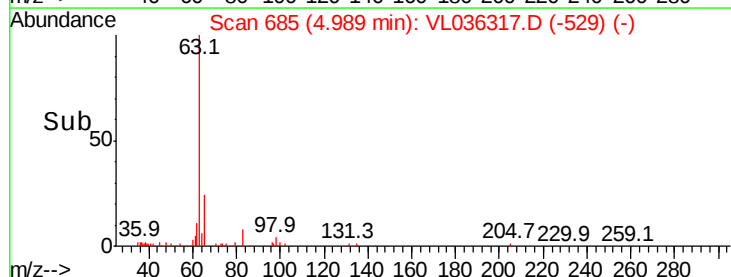
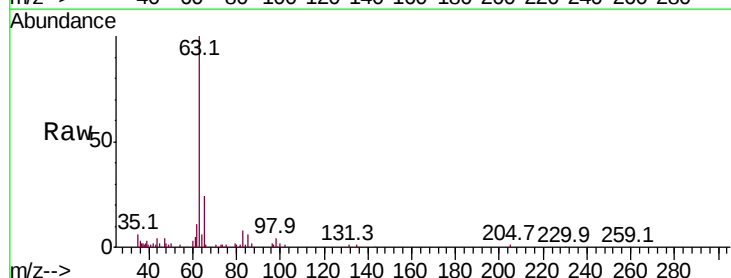
RT: 4.99 min Scan# 685

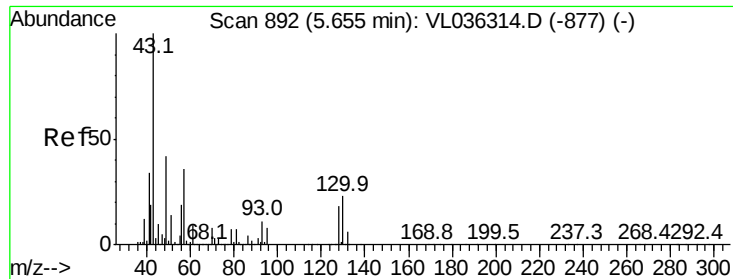
Delta R.T. 0.00 min

Lab File: VL036317.D

Acq: 10 Feb 2021 13:24

Tgt Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.0	6.0
100	2.3	1.5	4.4





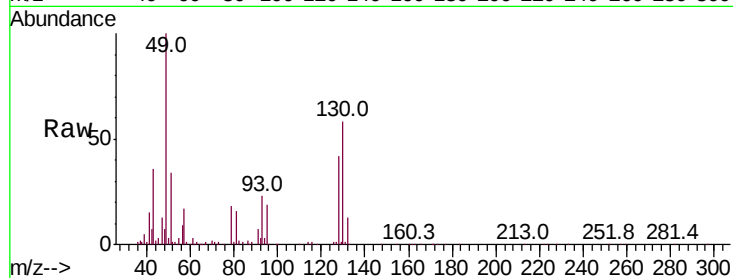
#25
Ethyl Acetate
Concen: 0.522 ppbv m
RT: 5.66 min Scan# 895
Delta R.T. 0.01 min
Lab File: VL036317.D
Acq: 10 Feb 2021 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

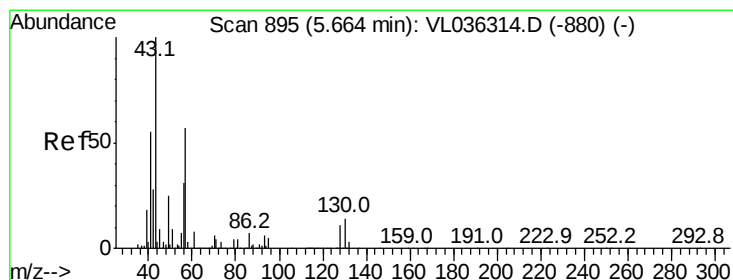
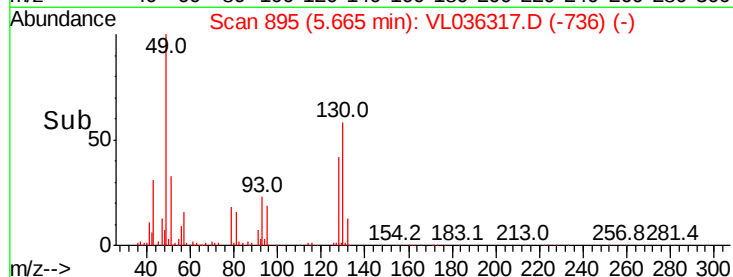
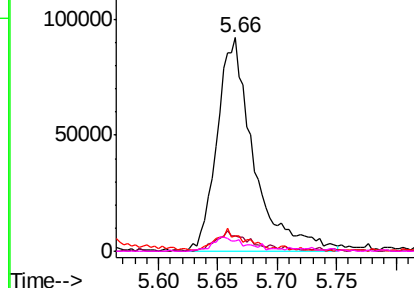
Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	10.2	8.3	12.5	
61	9.8	7.3	10.9	
70	7.9	5.4	8.0	

Manual Integrations
APPROVED

MMDadoda
2/12/2021 1:41:57 PM



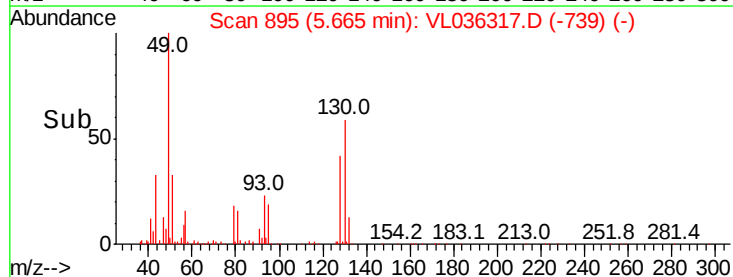
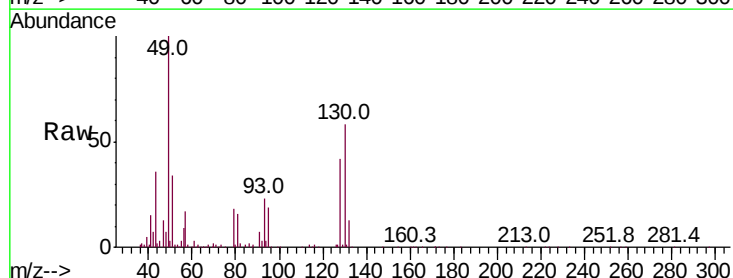
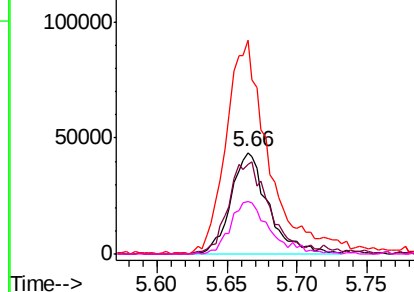
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

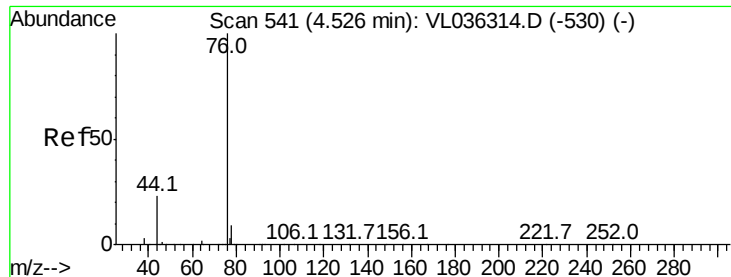


#26
Hexane
Concen: 0.516 ppbv m
RT: 5.66 min Scan# 895
Delta R.T. 0.00 min
Lab File: VL036317.D
Acq: 10 Feb 2021 13:24

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	105.6	81.7	122.5	
43	243.5	199.1	298.7	
56	55.6	44.0	66.0	

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: 0.501 ppbv m

RT: 4.53 min Scan# 543

Delta R.T. 0.01 min

Lab File: VL036317.D

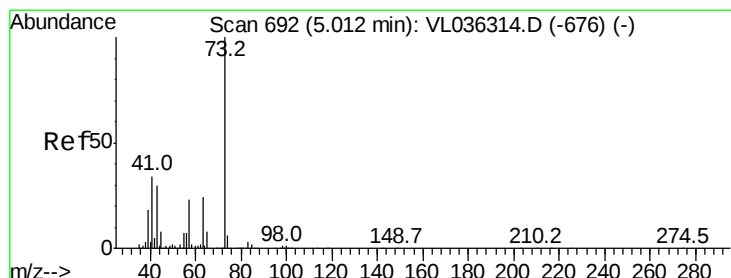
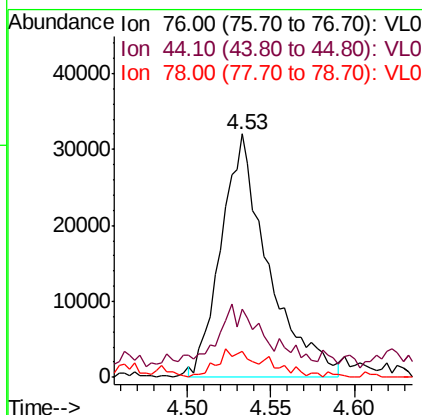
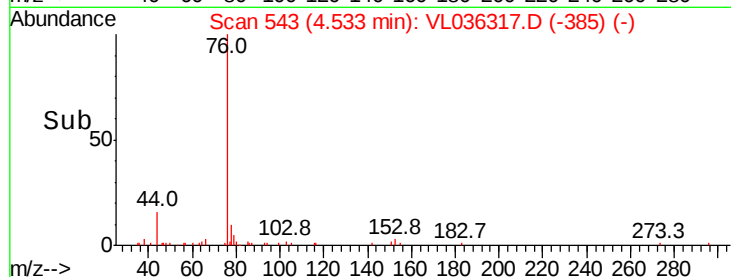
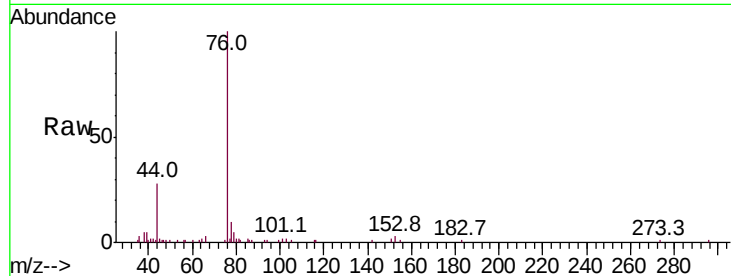
Acq: 10 Feb 2021 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
76	100		
44	32.9	18.4	27.6#
78	12.5	8.0	12.0#

Manual Integrations
APPROVED

MMDadoda
2/12/2021 1:41:57 PM



#28

Methyl tert-Butyl Ether

Concen: 0.477 ppbv m

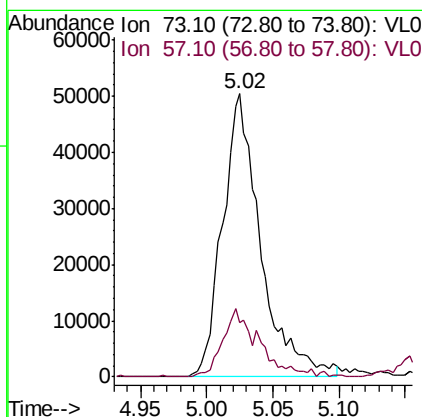
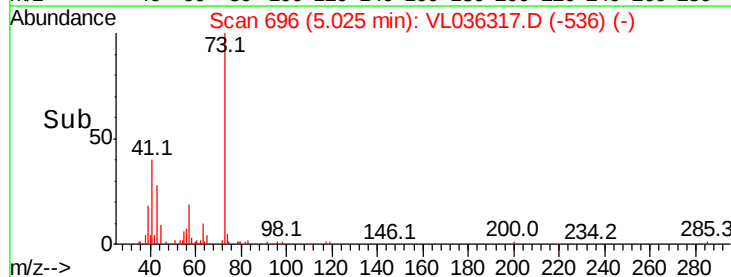
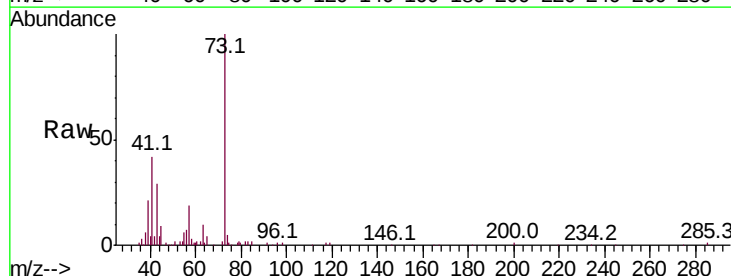
RT: 5.02 min Scan# 696

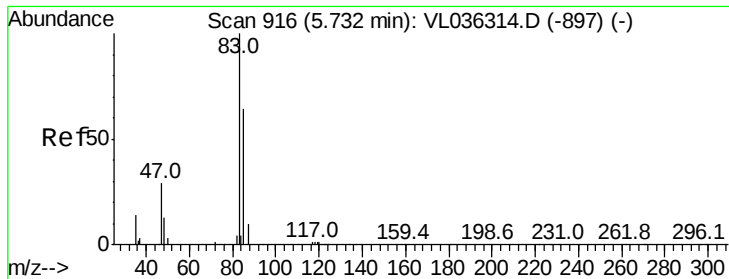
Delta R.T. 0.01 min

Lab File: VL036317.D

Acq: 10 Feb 2021 13:24

Tgt Ion	Ratio	Lower	Upper
73	100		
57	23.4	19.2	28.8





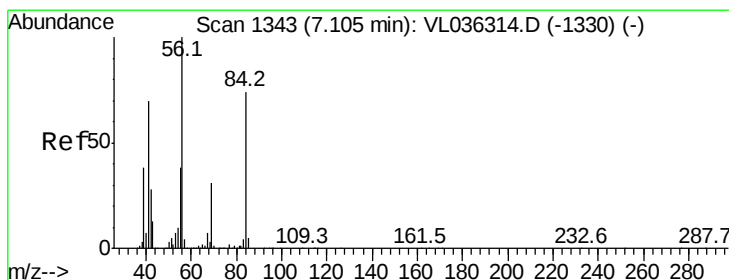
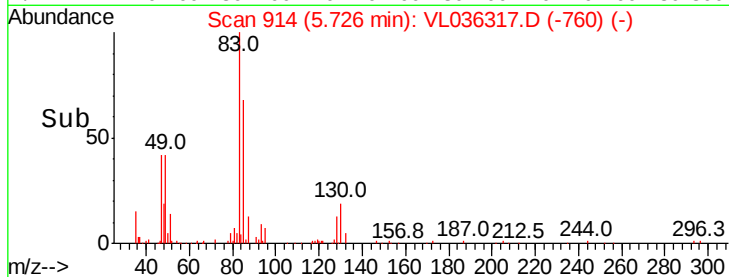
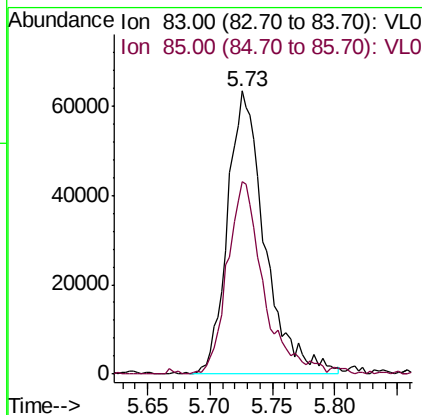
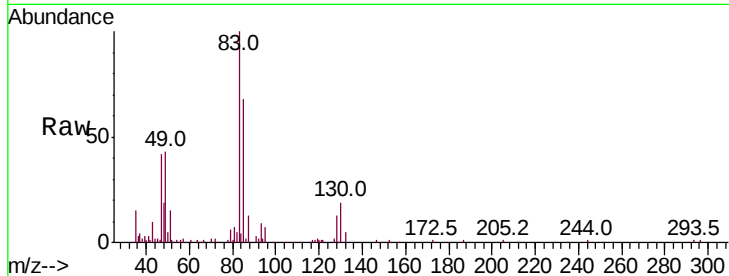
#29
Chloroform
Concen: 0.585 ppbv m
RT: 5.73 min Scan# 914
Delta R.T. -0.01 min
Lab File: VL036317.D
Acq: 10 Feb 2021 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	83	Resp	131131
Ion Ratio	100	Lower	Upper
85	68.2	51.4	77.2

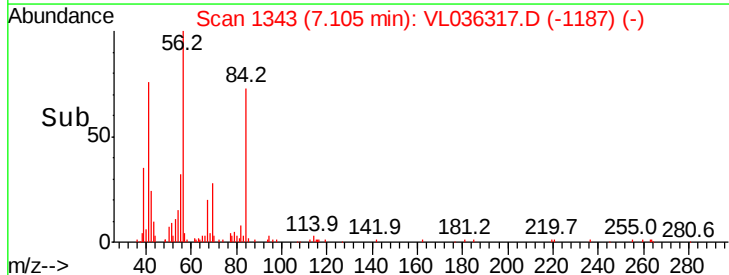
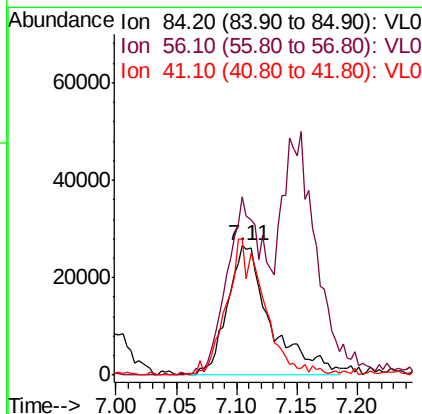
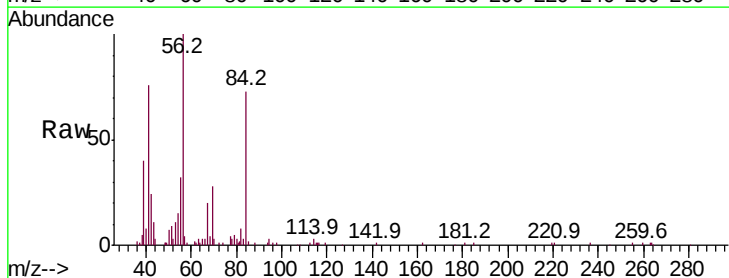
Manual Integrations
APPROVED

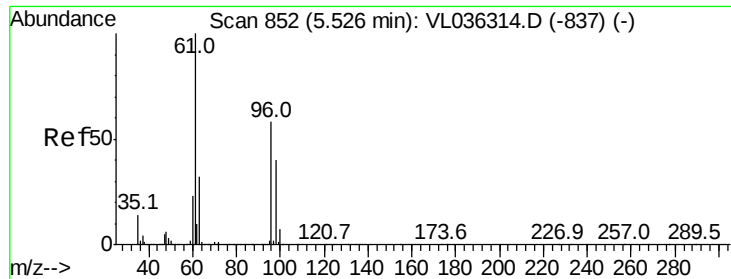
MMDadoda
2/12/2021 1:41:57 PM



#30
Cyclohexane
Concen: 0.545 ppbv m
RT: 7.11 min Scan# 1343
Delta R.T. 0.00 min
Lab File: VL036317.D
Acq: 10 Feb 2021 13:24

Tgt Ion	84	Resp	65265
Ion Ratio	100	Lower	Upper
56	113.3	120.2	180.4#
41	93.4	79.7	119.5





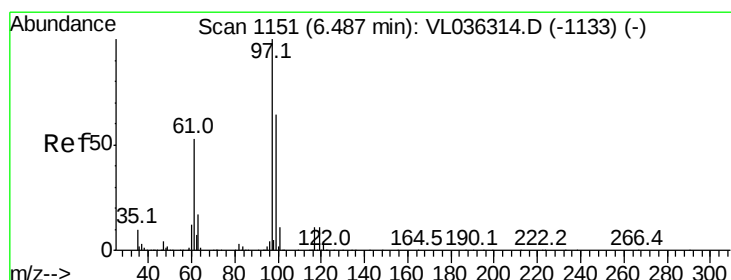
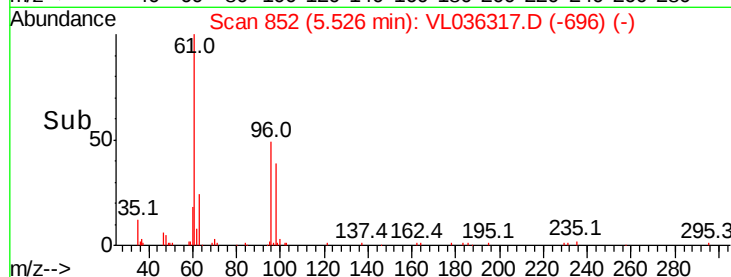
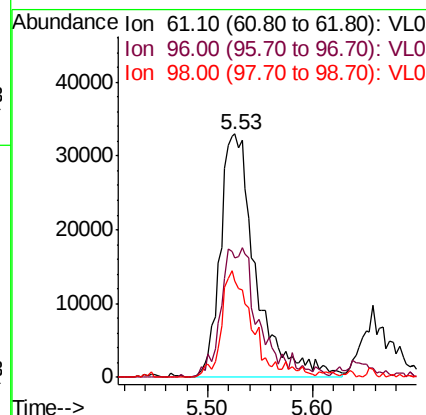
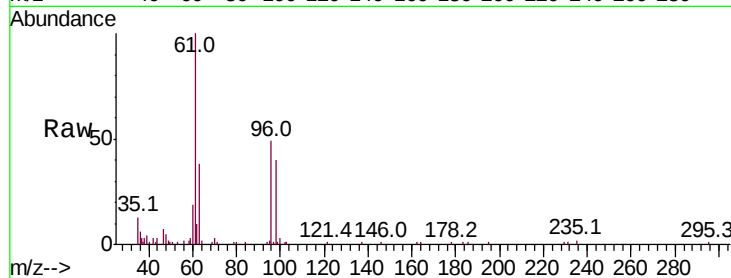
#31
 cis-1,2-Dichloroethene
 Concen: 0.520 ppbv m
 RT: 5.53 min Scan# 852
 Delta R.T. 0.00 min
 Lab File: VL036317.D
 Acq: 10 Feb 2021 13:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
61	100		
96	49.3	46.0	69.0
98	39.8	31.9	47.9

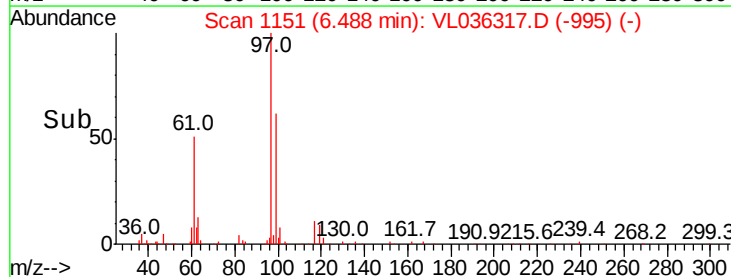
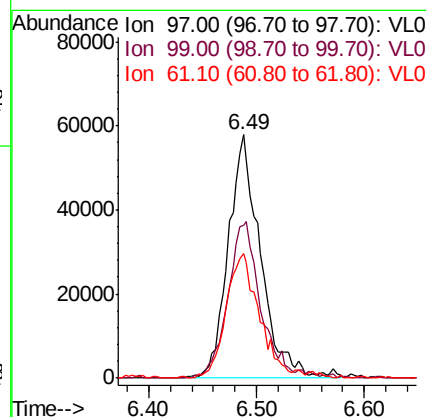
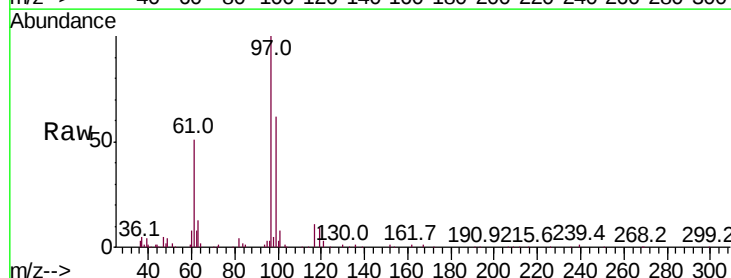
Manual Integrations
 APPROVED

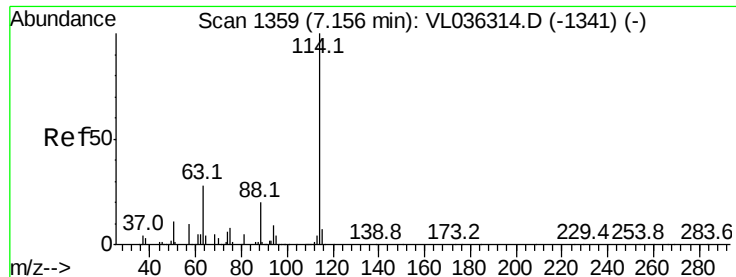
MMDadoda
 2/12/2021 1:41:57 PM



#32
 1,1,1-Trichloroethane
 Concen: 0.559 ppbv m
 RT: 6.49 min Scan# 1151
 Delta R.T. 0.00 min
 Lab File: VL036317.D
 Acq: 10 Feb 2021 13:24

Tgt Ion	Ratio	Lower	Upper
97	100		
99	66.1	52.2	78.4
61	54.2	43.3	64.9





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.15 min Scan# 1358

Delta R.T. -0.00 min

Lab File: VL036317.D

Acq: 10 Feb 2021 13:24

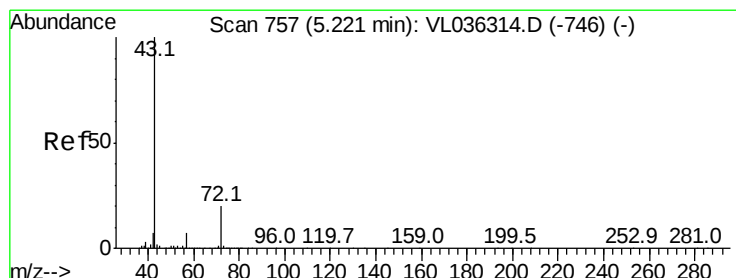
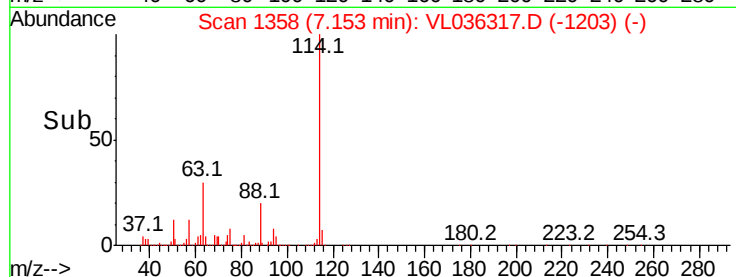
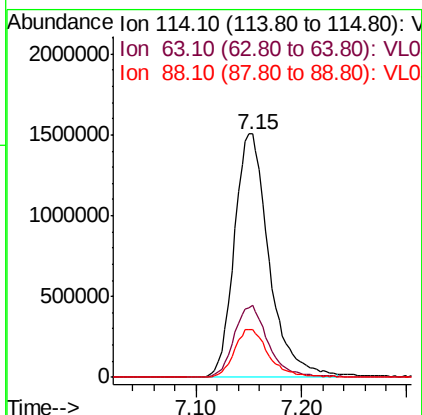
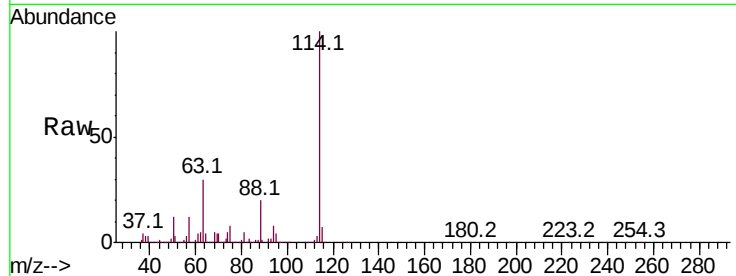
Instrument :
MSVOA_L

ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
114	100		
63	29.4	24.1	36.1
88	19.9	16.0	24.0

Manual Integrations
APPROVED

MMDadoda
2/12/2021 1:41:57 PM



#34

2-Butanone

Concen: 0.488 ppbv m

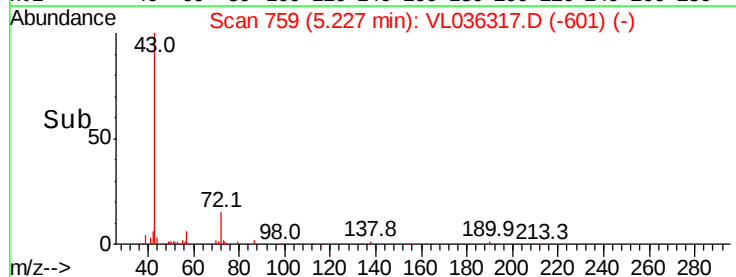
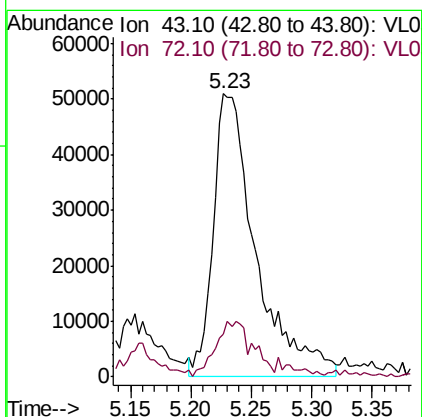
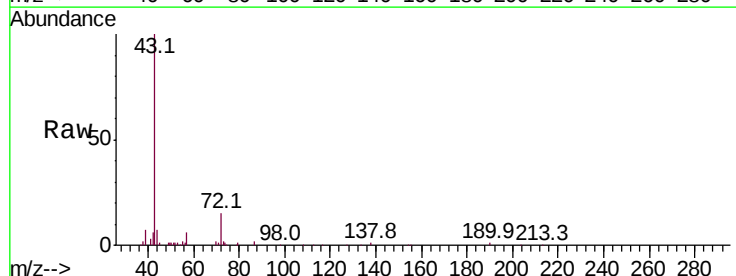
RT: 5.23 min Scan# 759

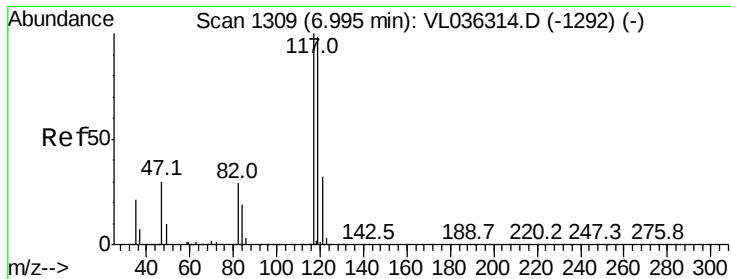
Delta R.T. 0.01 min

Lab File: VL036317.D

Acq: 10 Feb 2021 13:24

Tgt Ion	Ratio	Lower	Upper
43	100		
72	19.6	16.7	25.1





#35

Carbon Tetrachloride

Concen: 0.525 ppbv m

RT: 6.99 min Scan# 1308

Delta R.T. -0.00 min

Lab File: VL036317.D

Acq: 10 Feb 2021 13:24

Instrument :

MSVOA_L

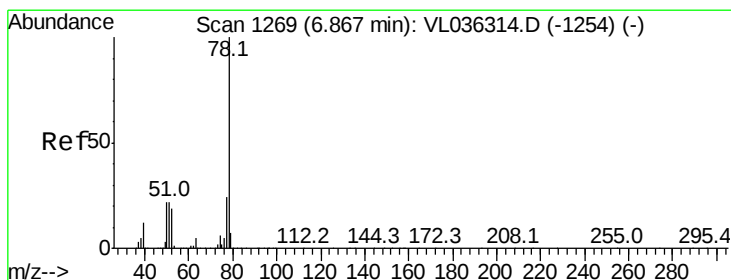
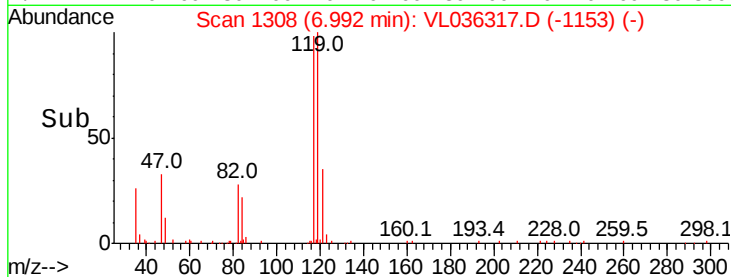
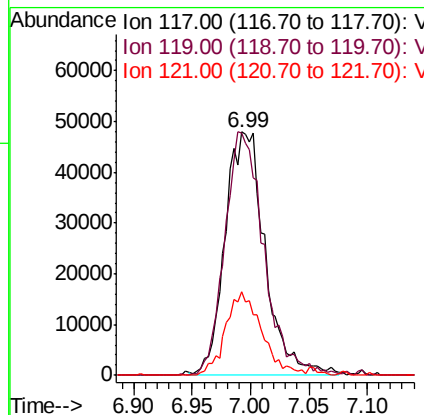
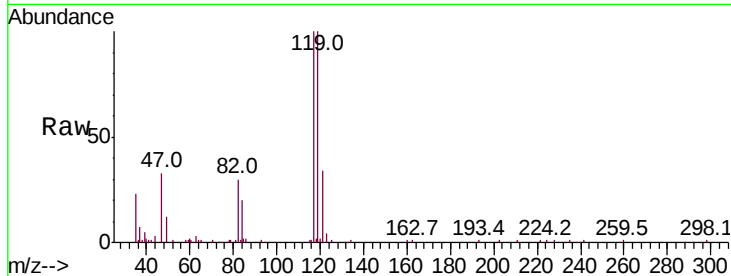
ClientSampleId :

VSTDIC0.5

Tot Ion:	117	Resp:	114341
Ion Ratio	Lower	Upper	
117	100		
119	99.7	78.1	117.1
121	34.1	25.8	38.8

Manual Integrations
APPROVED

MMDadoda
2/12/2021 1:41:57 PM



#36

Benzene

Concen: 0.467 ppbv

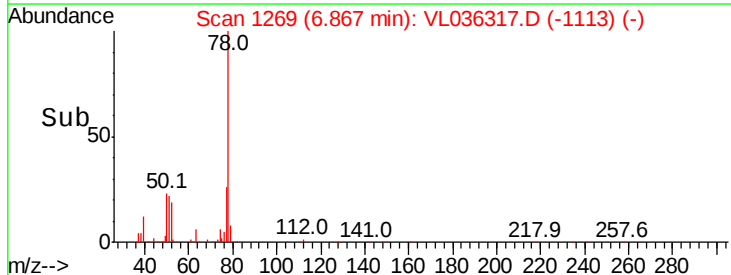
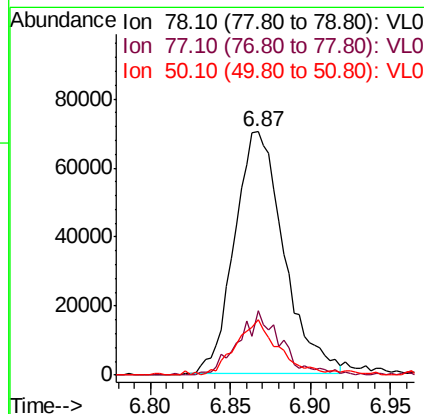
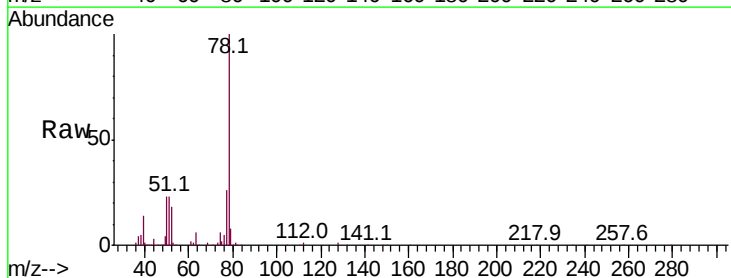
RT: 6.87 min Scan# 1269

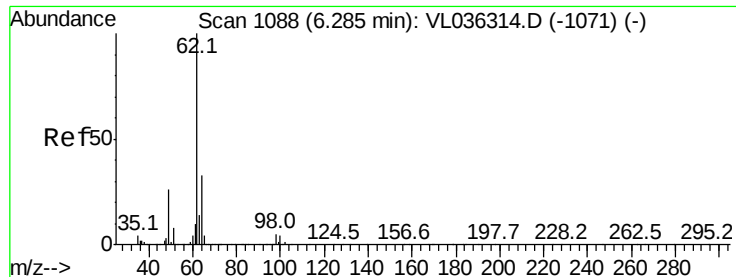
Delta R.T. 0.00 min

Lab File: VL036317.D

Acq: 10 Feb 2021 13:24

Tgt Ion:	78	Resp:	147327
Ion Ratio	Lower	Upper	
78	100		
77	26.4	18.9	28.3
50	22.9	17.3	25.9





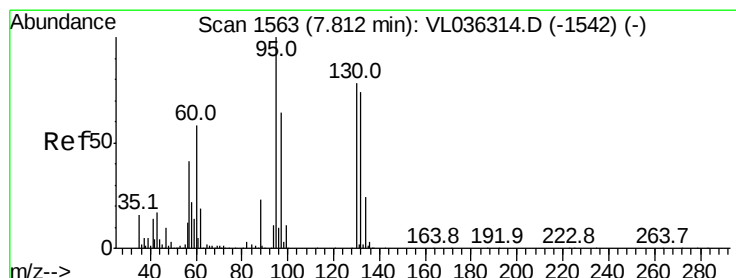
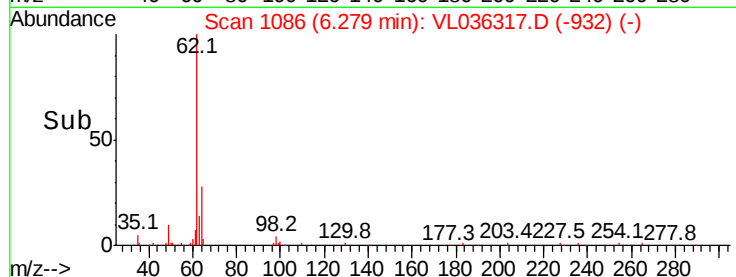
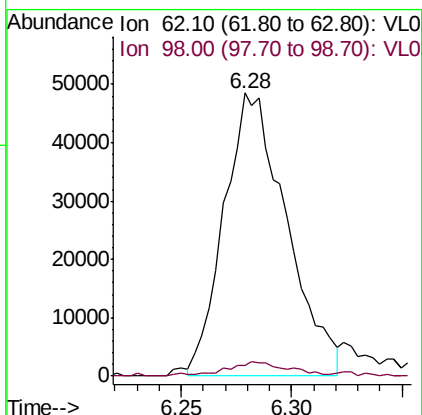
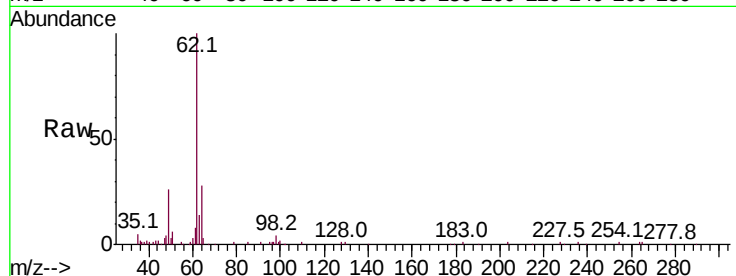
#37
 1,2-Dichloroethane
 Concen: 0.503 ppbv
 RT: 6.28 min Scan# 1086
 Delta R.T. -0.01 min
 Lab File: VL036317.D
 Acq: 10 Feb 2021 13:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
62	100	95456		
98	5.9		4.5	6.7

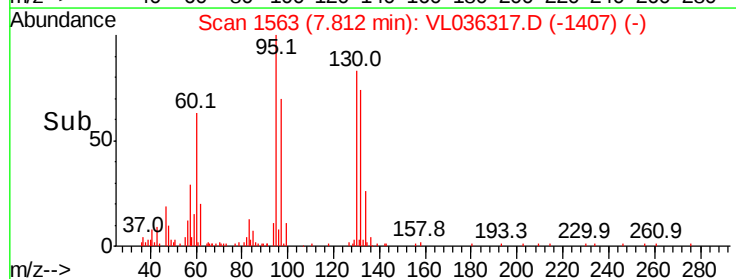
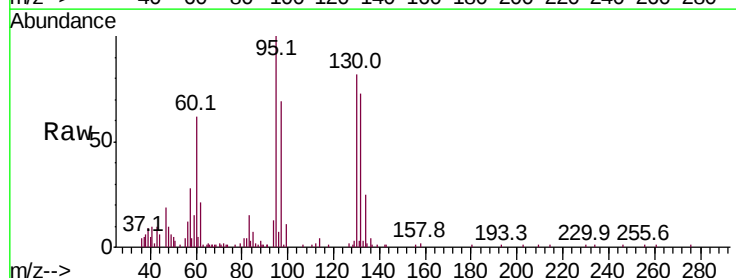
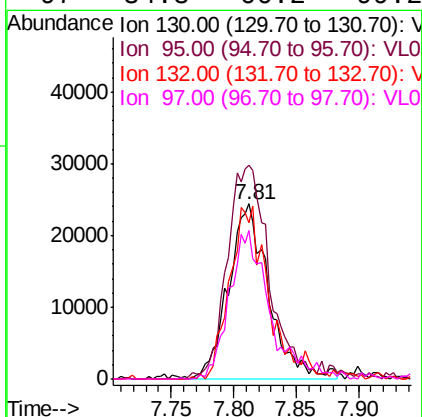
Manual Integrations
 APPROVED

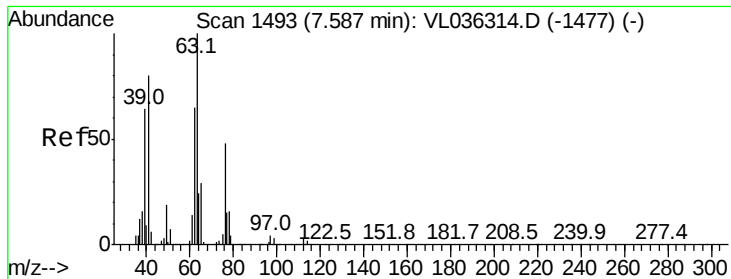
MMDadoda
 2/12/2021 1:41:57 PM



#38
 Trichloroethene
 Concen: 0.469 ppbv m
 RT: 7.81 min Scan# 1563
 Delta R.T. 0.00 min
 Lab File: VL036317.D
 Acq: 10 Feb 2021 13:24

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	54839		
95	122.2		102.8	154.2
132	89.4		75.7	113.5
97	84.8		66.2	99.2





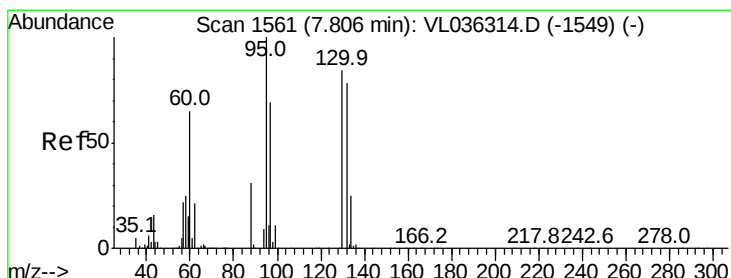
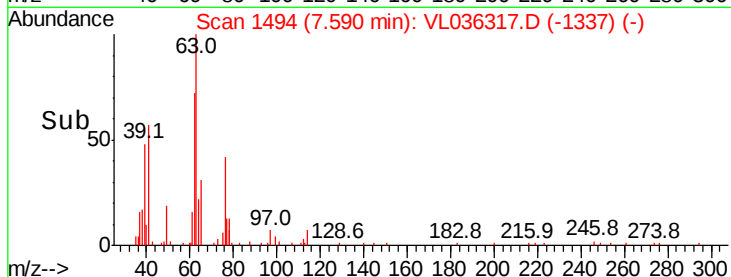
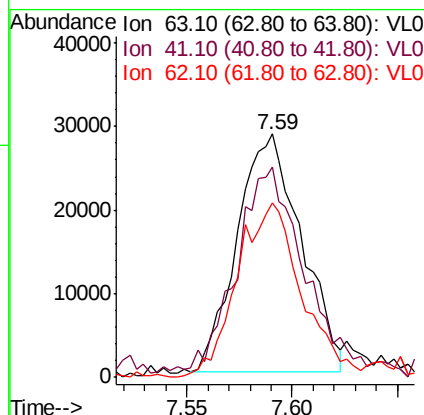
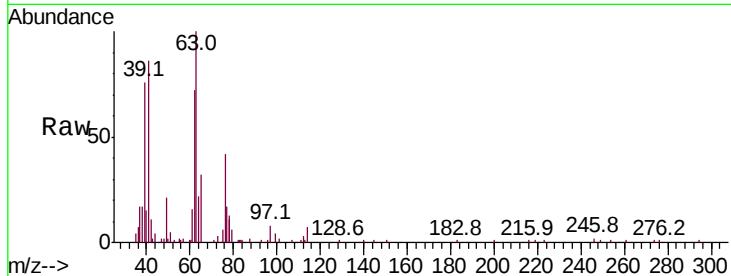
#39
 1,2-Dichloropropane
 Concen: 0.468 ppbv
 RT: 7.59 min Scan# 1494
 Delta R.T. 0.00 min
 Lab File: VL036317.D
 Acq: 10 Feb 2021 13:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	63	Resp	59913
Ion Ratio	Lower	Upper	
63	100		
41	84.5	63.8	95.6
62	71.4	52.3	78.5

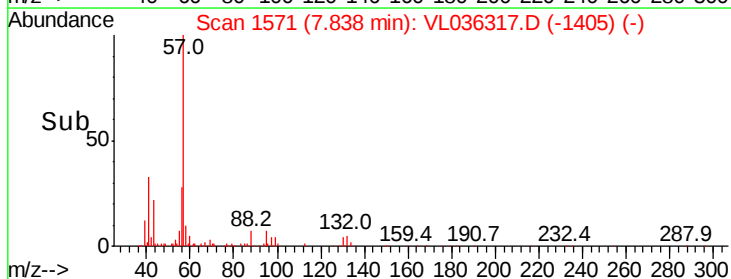
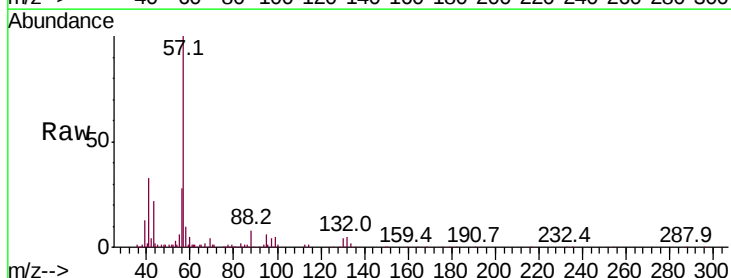
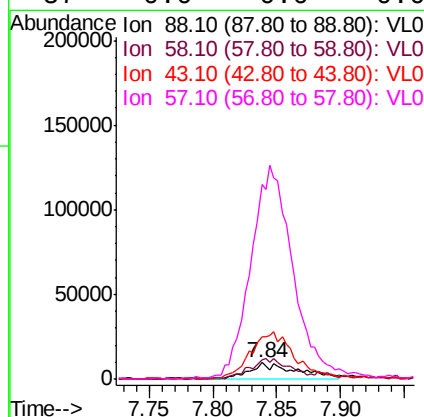
Manual Integrations
 APPROVED

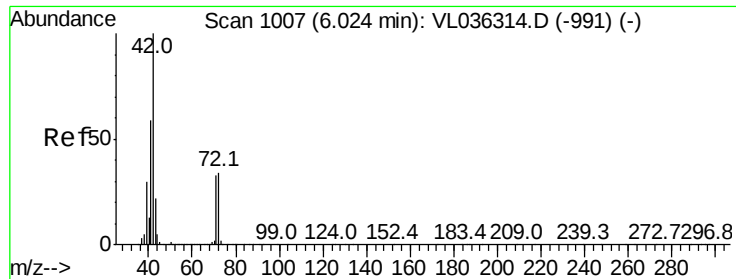
MMDadoda
 2/12/2021 1:41:57 PM



#40
 1,4-Dioxane
 Concen: 0.543 ppbv m
 RT: 7.84 min Scan# 1571
 Delta R.T. 0.03 min
 Lab File: VL036317.D
 Acq: 10 Feb 2021 13:24

Tgt Ion	88	Resp	25182
Ion Ratio	Lower	Upper	
88	100		
58	0.0	45.0	67.4#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





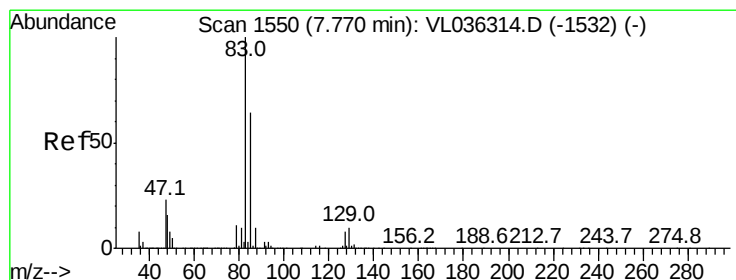
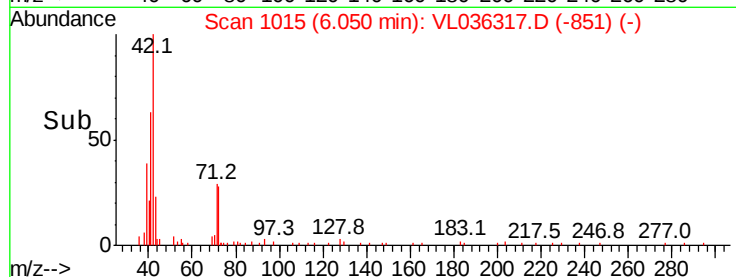
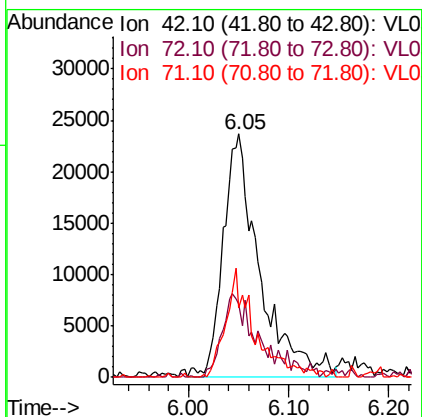
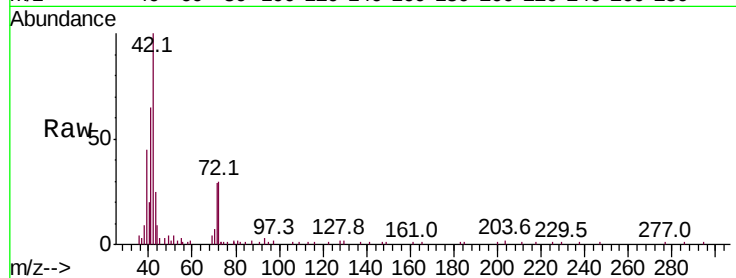
#41
Tetrahydrofuran
Concen: 0.411 ppbv m
RT: 6.05 min Scan# 1015
Delta R.T. 0.03 min
Lab File: VL036317.D
Acq: 10 Feb 2021 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	29.3	43.9#
71	0.0	27.8	41.8#

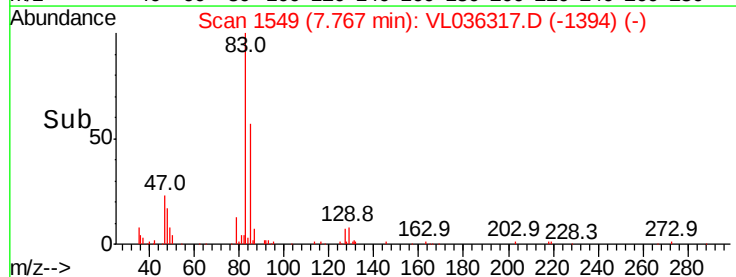
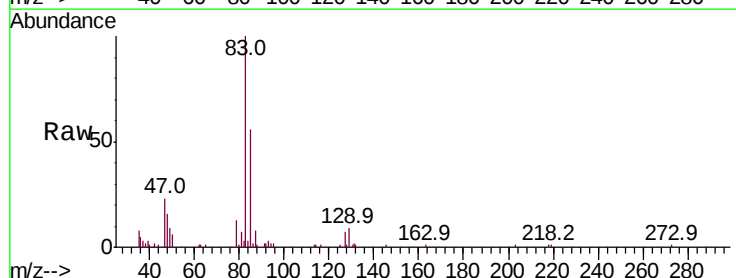
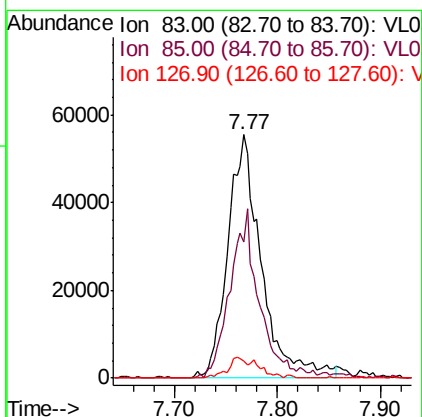
Manual Integrations
APPROVED

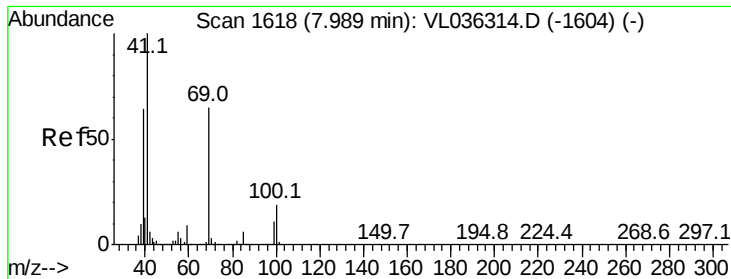
MMDadoda
2/12/2021 1:41:57 PM



#42
Bromodichloromethane
Concen: 0.526 ppbv m
RT: 7.77 min Scan# 1549
Delta R.T. -0.00 min
Lab File: VL036317.D
Acq: 10 Feb 2021 13:24

Tgt Ion	Ratio	Lower	Upper
83	100		
85	56.0	51.1	76.7
127	6.9	6.3	9.5





#43

Methyl Methacrylate

Concen: 0.438 ppbv m

RT: 8.00 min Scan# 1621

Delta R.T. 0.01 min

Lab File: VL036317.D

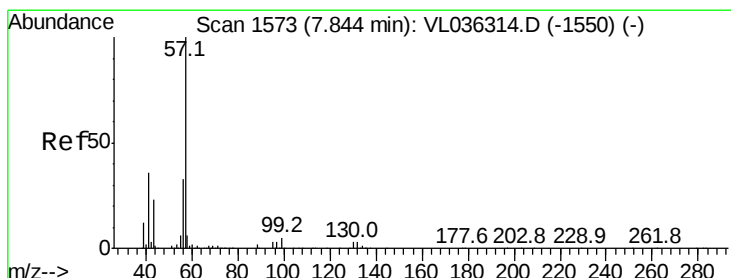
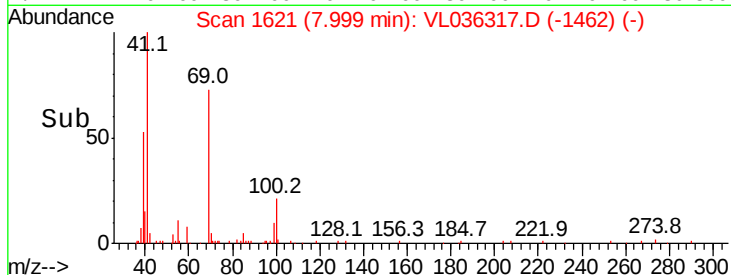
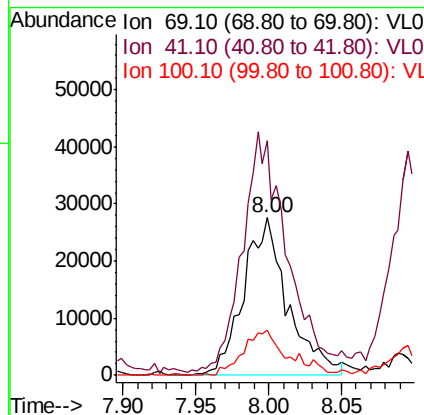
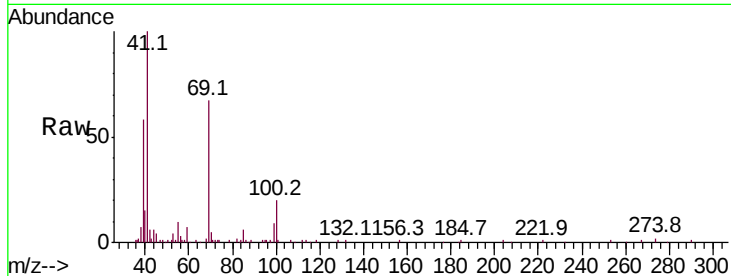
Acq: 10 Feb 2021 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
69	100		
41	152.3	126.5	189.7
100	0.0	23.1	34.7#

Manual Integrations
APPROVED

MMDadoda
2/12/2021 1:41:57 PM



#44

2,2,4-Trimethylpentane

Concen: 0.491 ppbv

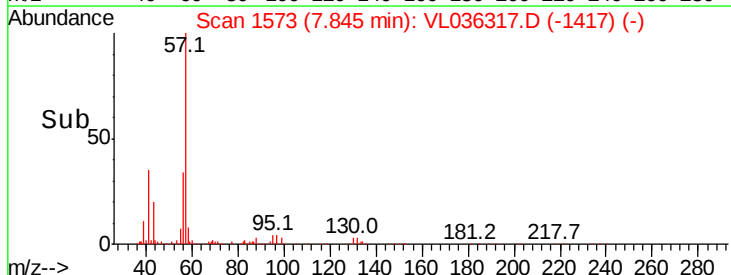
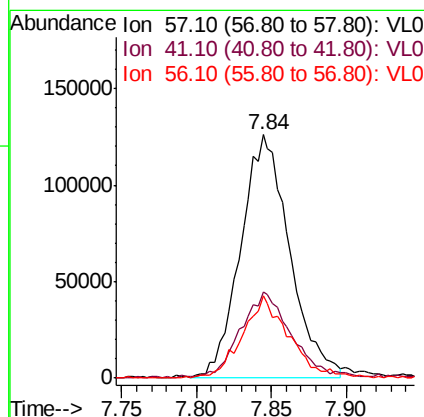
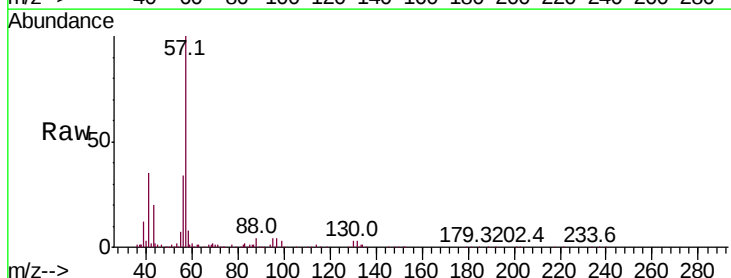
RT: 7.84 min Scan# 1573

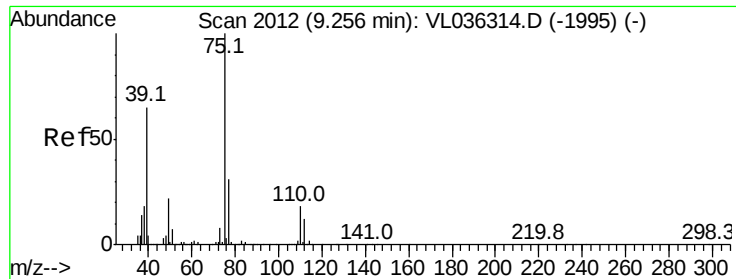
Delta R.T. 0.00 min

Lab File: VL036317.D

Acq: 10 Feb 2021 13:24

Tgt Ion	Ratio	Lower	Upper
57	100		
41	37.9	28.8	43.2
56	32.8	25.8	38.6





#45

t-1,3-Dichloropropene

Concen: 0.368 ppbv

RT: 9.25 min Scan# 2011

Delta R.T. -0.00 min

Lab File: VL036317.D

Acq: 10 Feb 2021 13:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 75 Resp: 46861

Ion Ratio Lower Upper

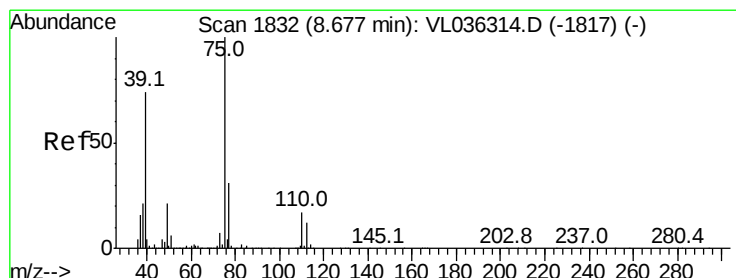
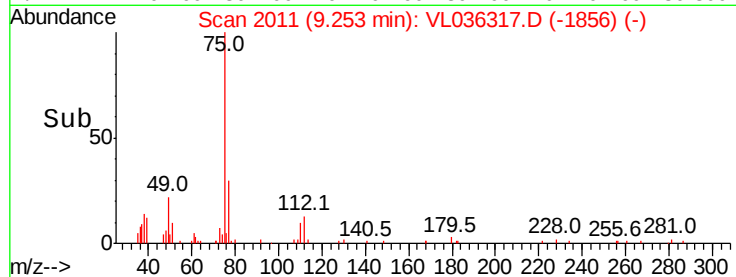
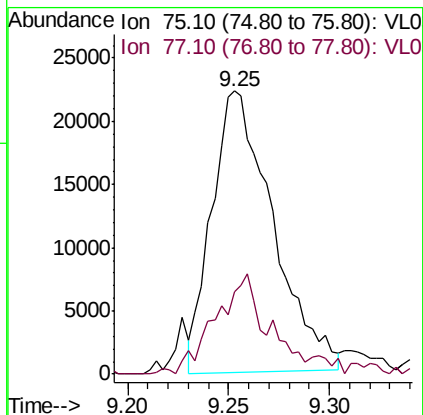
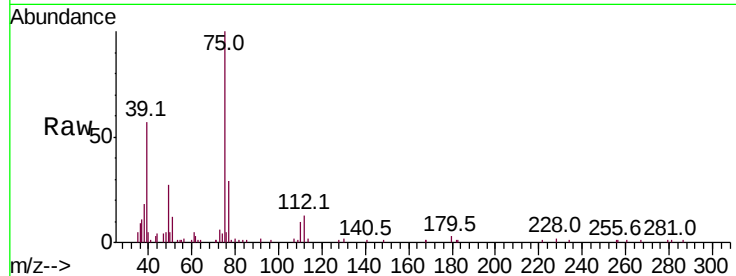
75 100

77 29.3 24.6 37.0

Manual Integrations
APPROVED

MMDadoda

2/12/2021 1:41:57 PM



#46

cis-1,3-Dichloropropene

Concen: 0.418 ppbv m

RT: 8.68 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VL036317.D

Acq: 10 Feb 2021 13:24

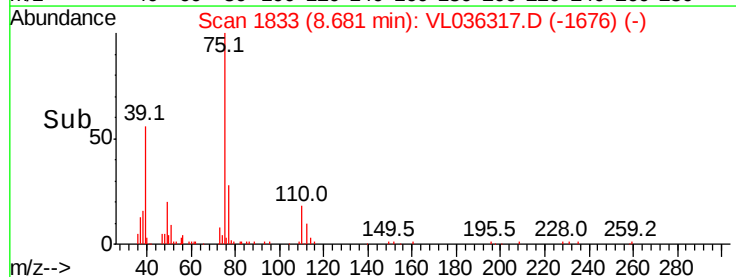
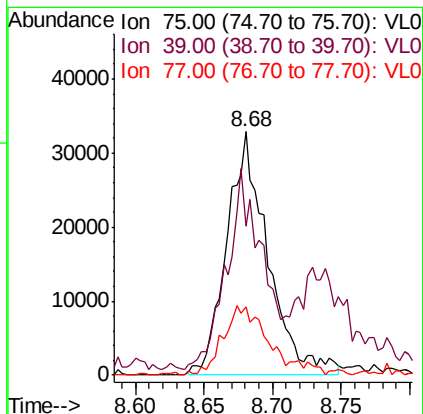
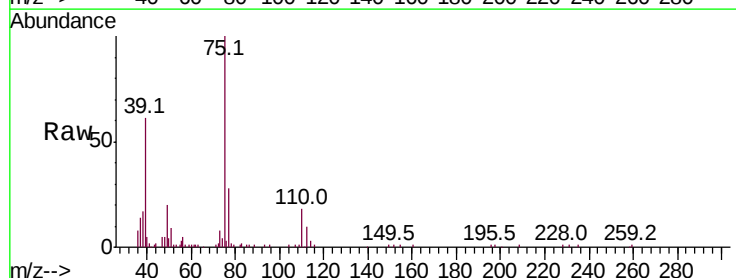
Tgt Ion: 75 Resp: 68393

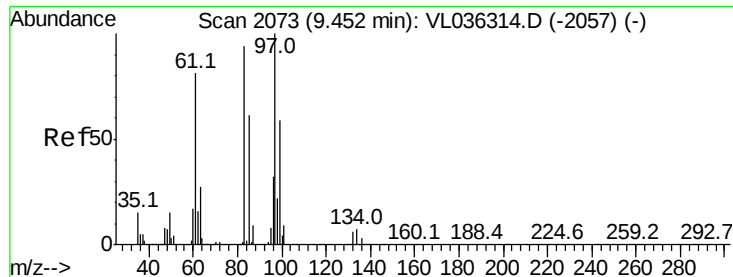
Ion Ratio Lower Upper

75 100

39 61.4 59.2 88.8

77 27.8 25.0 37.6





#47

1,1,2-Trichloroethane

Concen: 0.541 ppbv m

RT: 9.45 min Scan# 2073

Delta R.T. 0.00 min

Lab File: VL036317.D

Acq: 10 Feb 2021 13:24

Instrument :

MSVOA_L

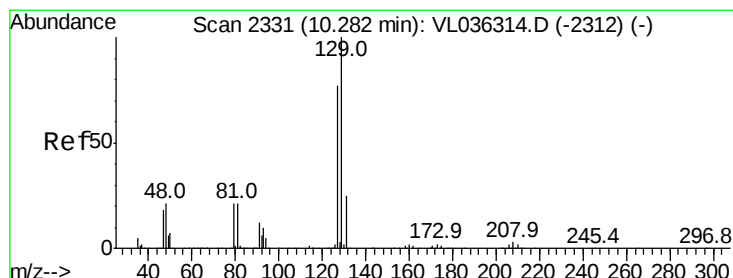
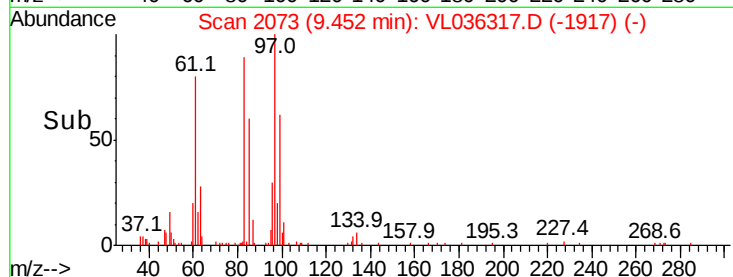
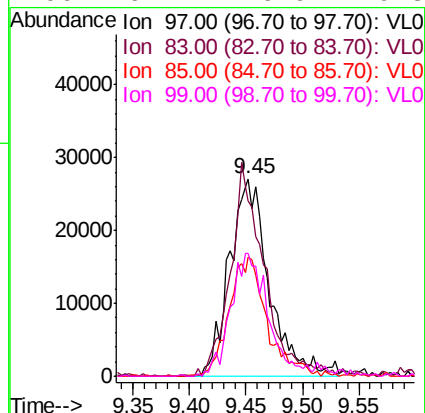
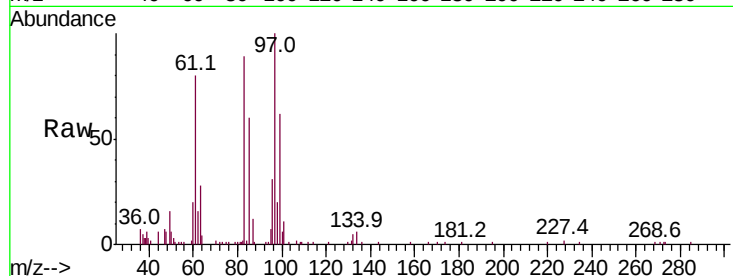
ClientSampleId :

VSTDIC0.5

Tot Ion:	97	Resp:	66334
Ion	Ratio	Lower	Upper
97	100		
83	88.8	75.4	113.0
85	60.4	48.9	73.3
99	62.2	46.9	70.3

Manual Integrations
APPROVED

MMDadoda
2/12/2021 1:41:57 PM



#48

Dibromochloromethane

Concen: 0.481 ppbv m

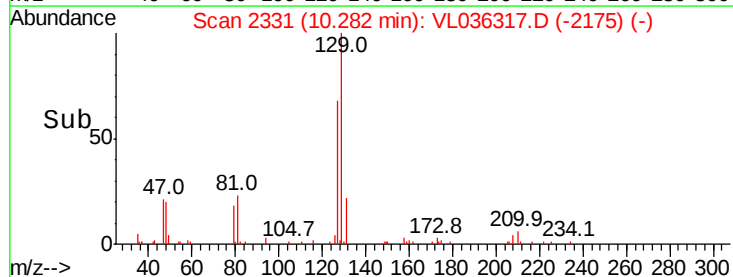
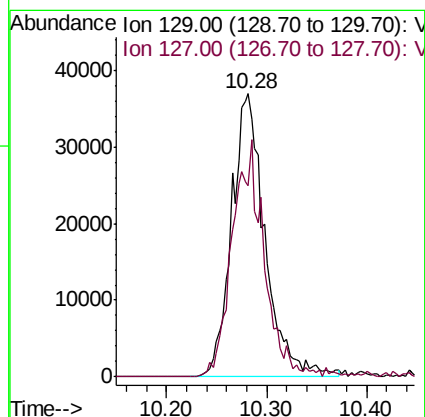
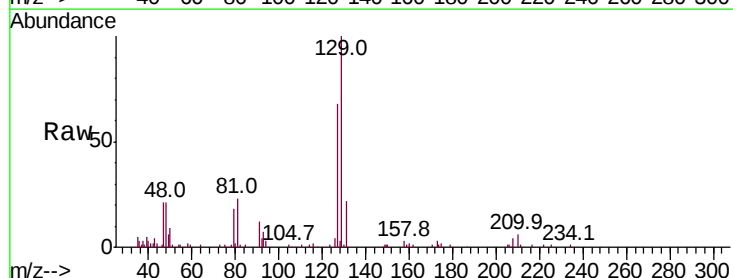
RT: 10.28 min Scan# 2331

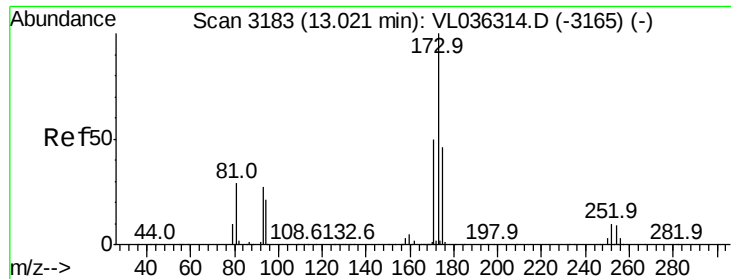
Delta R.T. 0.00 min

Lab File: VL036317.D

Acq: 10 Feb 2021 13:24

Tgt Ion:	129	Resp:	86181
Ion	Ratio	Lower	Upper
129	100		
127	78.8	39.1	117.2





#49

Bromoform

Concen: 0.439 ppbv m

RT: 13.01 min Scan# 3181

Delta R.T. -0.01 min

Lab File: VL036317.D

Acq: 10 Feb 2021 13:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:173 Resp: 65736

Ion Ratio Lower Upper

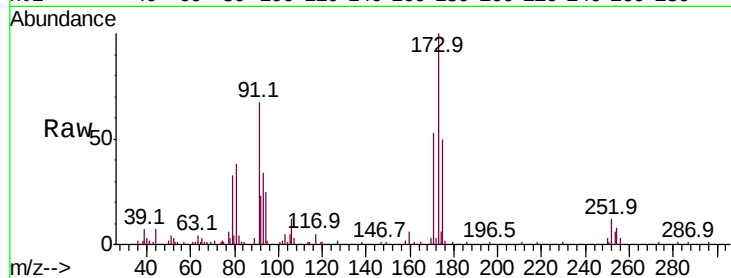
173 100

175 47.5 40.2 60.2

171 50.3 43.4 65.2

Manual Integrations
APPROVED

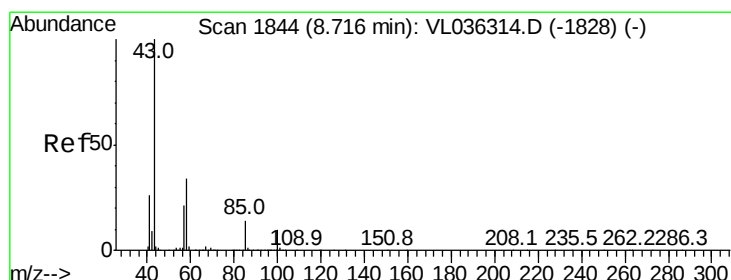
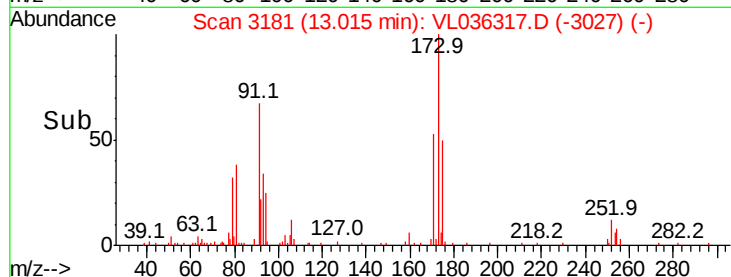
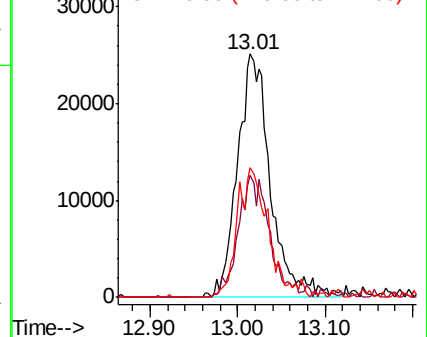
MMDadoda
2/12/2021 1:41:57 PM



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: 0.446 ppbv m

RT: 8.74 min Scan# 1850

Delta R.T. 0.02 min

Lab File: VL036317.D

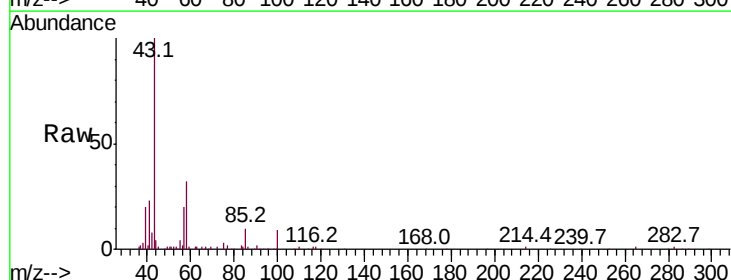
Acq: 10 Feb 2021 13:24

Tgt Ion: 43 Resp: 168576

Ion Ratio Lower Upper

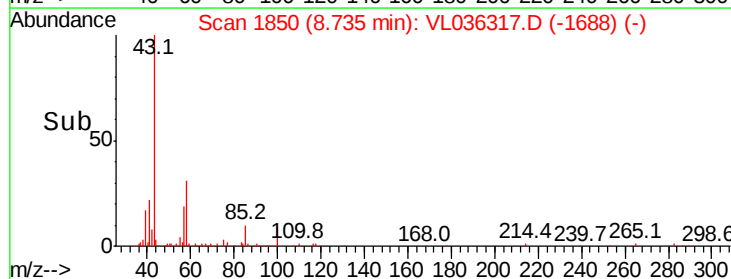
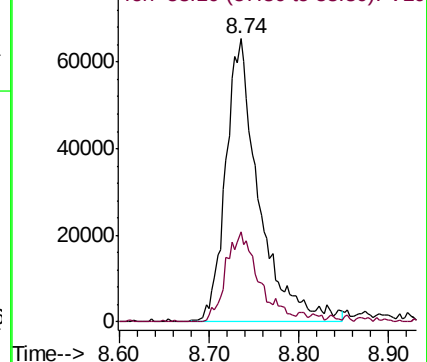
43 100

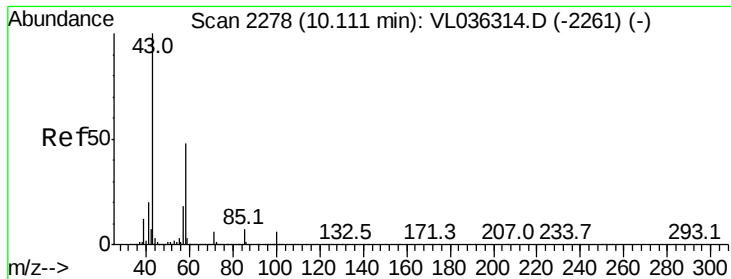
58 33.5 27.8 41.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 0.378 ppbv m

RT: 10.13 min Scan# 2285

Delta R.T. 0.02 min

Lab File: VL036317.D

Acq: 10 Feb 2021 13:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 43 Resp: 112806

Ion Ratio Lower Upper

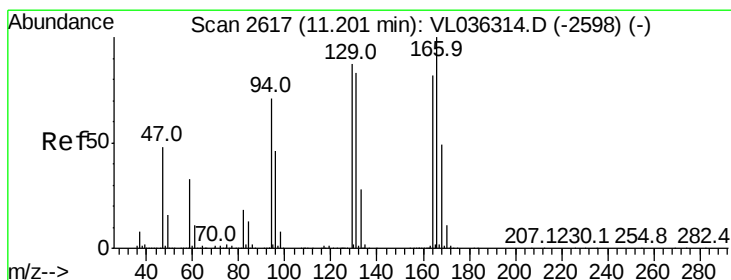
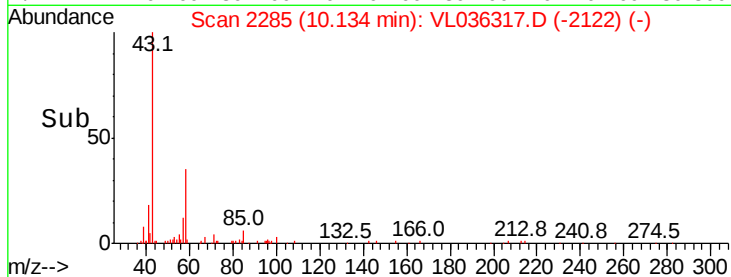
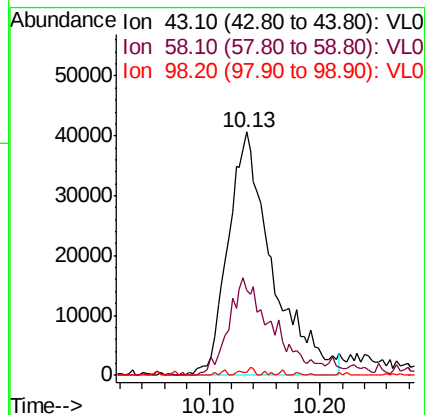
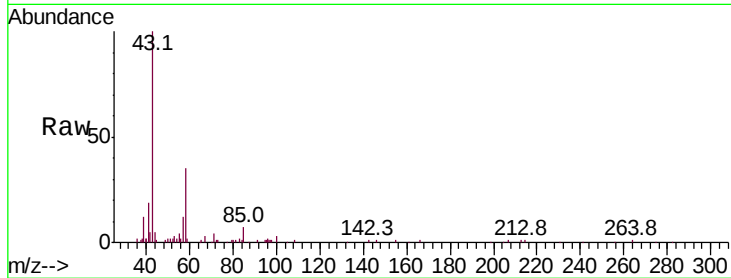
43 100

58 45.5 38.7 58.1

98 1.3 0.4 0.6#

Manual Integrations
APPROVED

MMDadoda
2/12/2021 1:41:57 PM



#52

Tetrachloroethene

Concen: 0.451 ppbv m

RT: 11.20 min Scan# 2616

Delta R.T. -0.00 min

Lab File: VL036317.D

Acq: 10 Feb 2021 13:24

Tgt Ion: 164 Resp: 52479

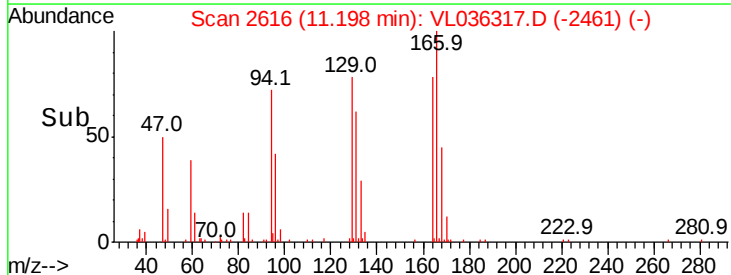
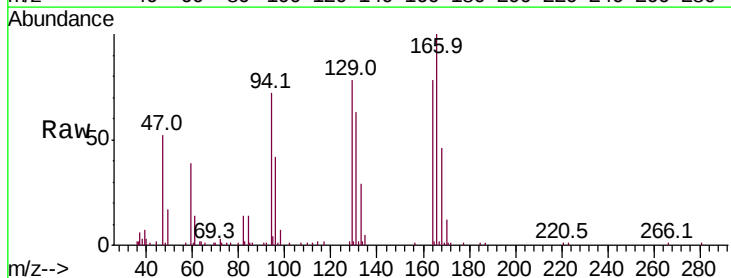
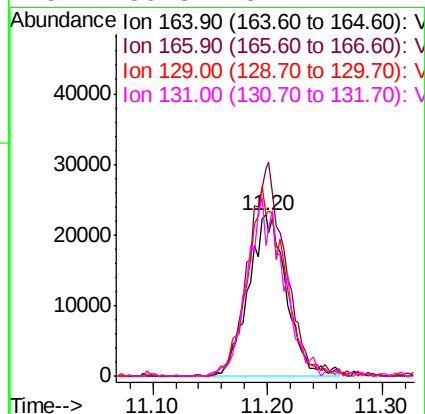
Ion Ratio Lower Upper

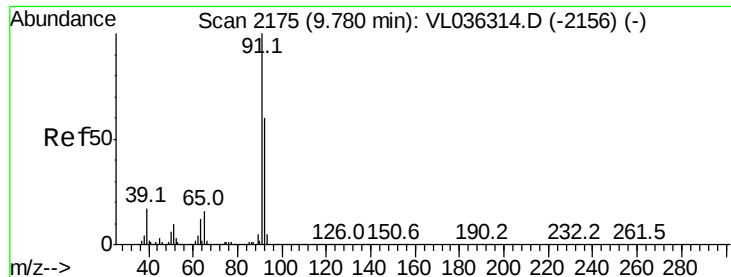
164 100

166 128.3 97.8 146.8

129 99.9 84.9 127.3

131 80.8 81.4 122.2#





#53

Toluene

Concen: 0.431 ppbv m

RT: 9.79 min Scan# 2177

Delta R.T. 0.01 min

Lab File: VL036317.D

Acq: 10 Feb 2021 13:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 152164

Ion Ratio Lower Upper

91 100

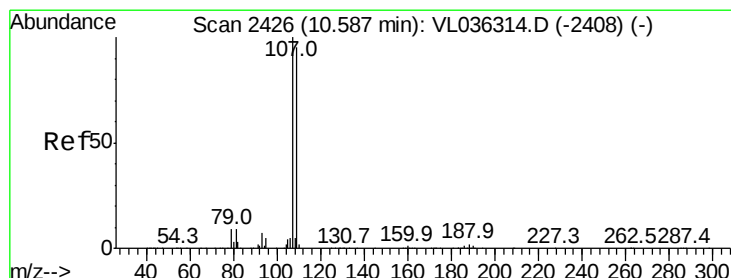
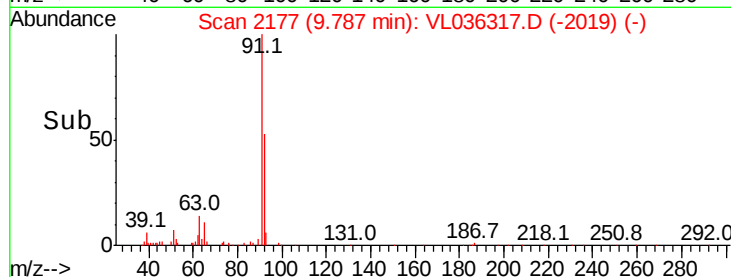
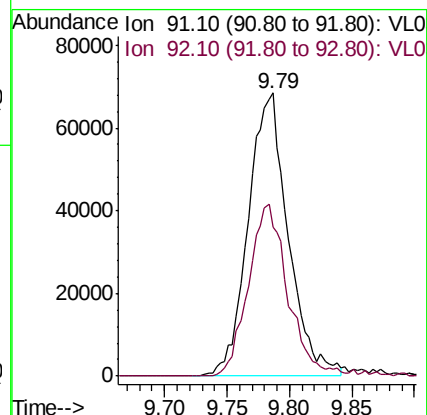
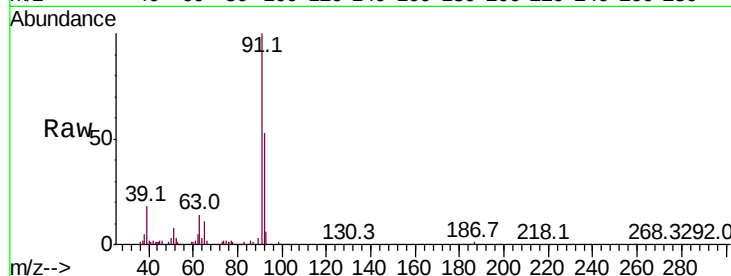
92 60.1 48.6 72.8

Manual Integrations

APPROVED

MMDadoda

2/12/2021 1:41:57 PM



#54

1,2-Dibromoethane

Concen: 0.506 ppbv m

RT: 10.59 min Scan# 2426

Delta R.T. 0.00 min

Lab File: VL036317.D

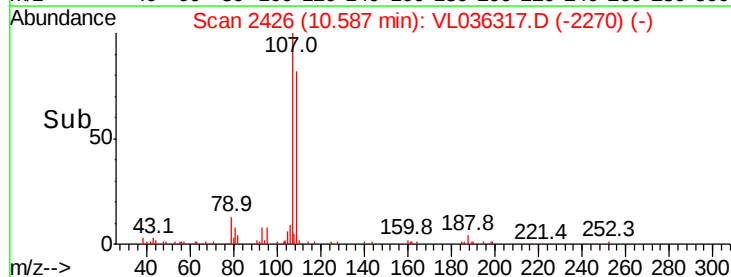
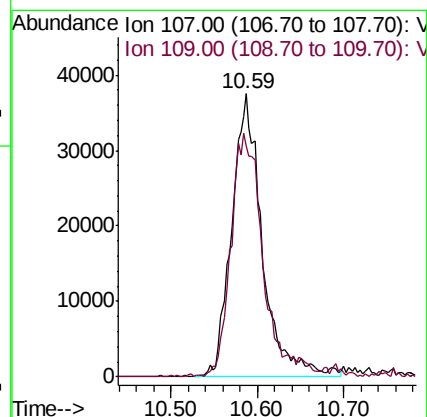
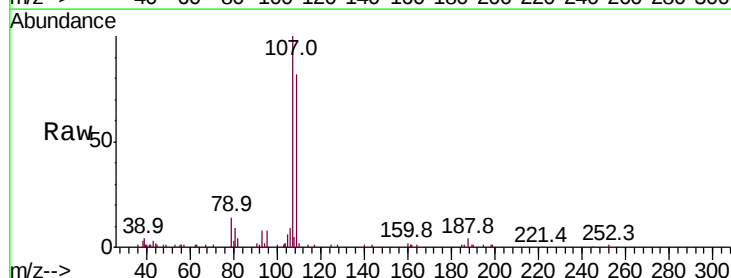
Acq: 10 Feb 2021 13:24

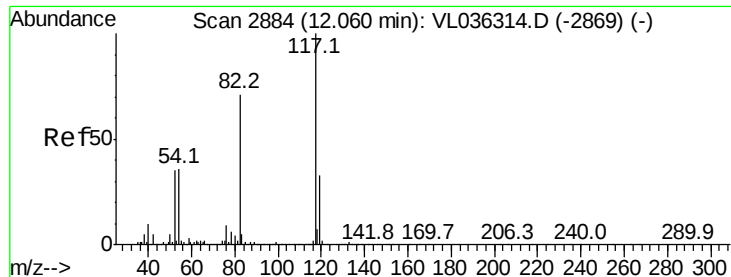
Tgt Ion: 107 Resp: 91949

Ion Ratio Lower Upper

107 100

109 81.5 76.0 114.0





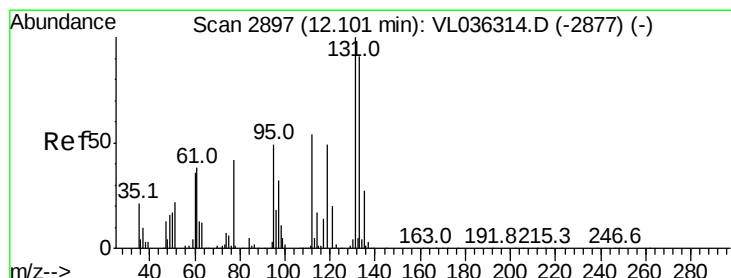
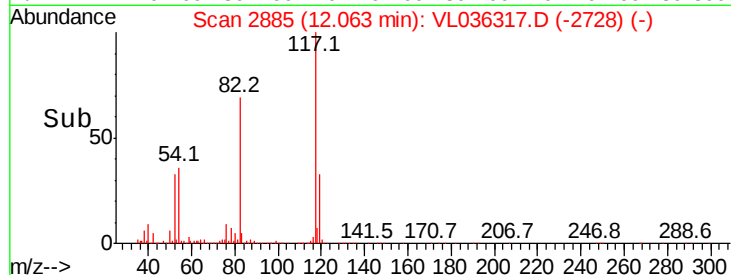
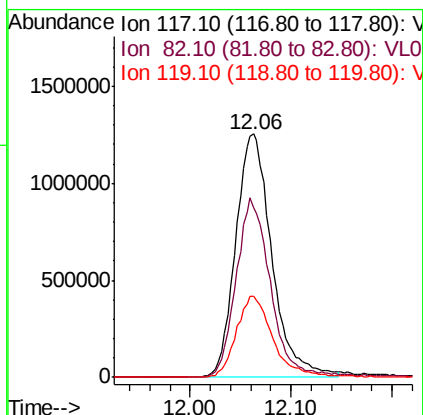
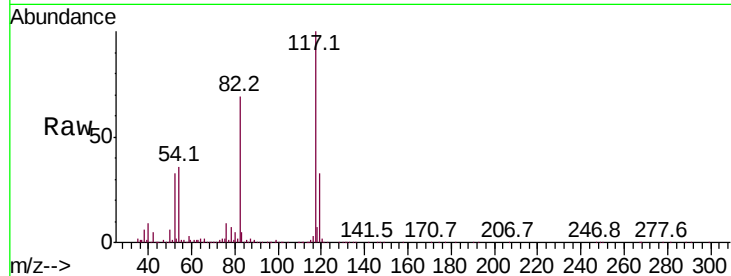
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2885
Delta R.T. 0.00 min
Lab File: VL036317.D
Acq: 10 Feb 2021 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
117	100		
82	71.3	59.1	88.7
119	34.2	46.3	69.5#

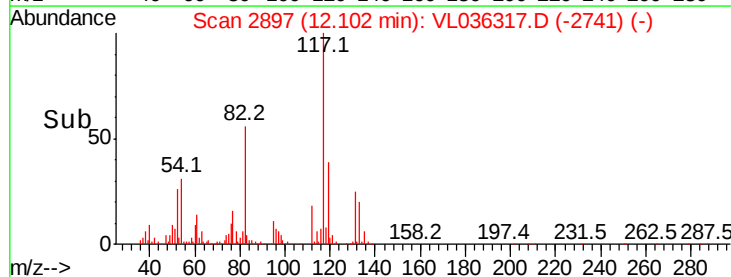
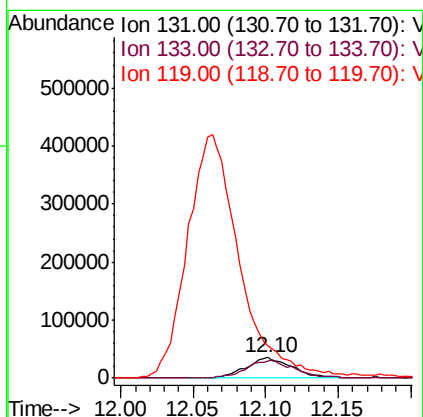
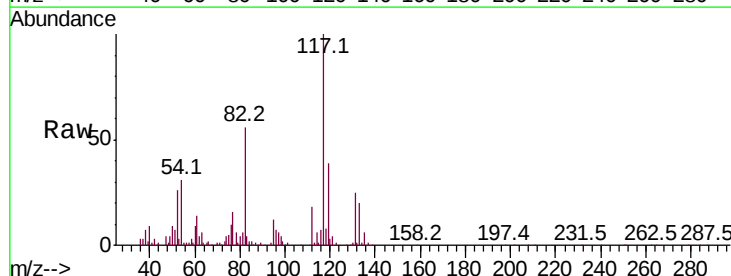
Manual Integrations
APPROVED

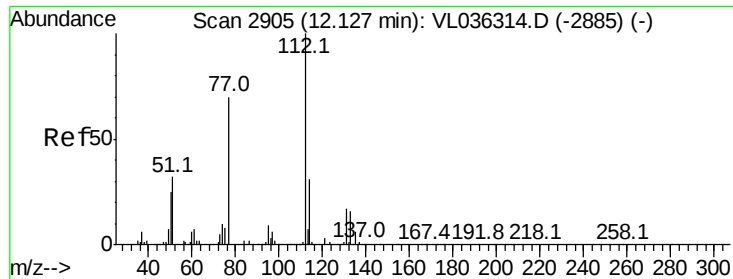
MMDadoda
2/12/2021 1:41:57 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 0.562 ppbv
RT: 12.10 min Scan# 2897
Delta R.T. 0.00 min
Lab File: VL036317.D
Acq: 10 Feb 2021 13:24

Tgt Ion	Ratio	Lower	Upper
131	100		
133	91.8	76.0	114.0
119	1365.2	115.1	172.7#





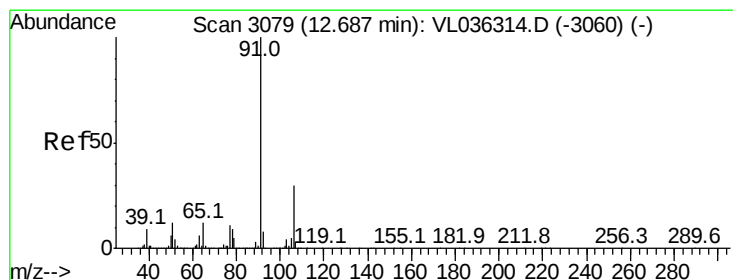
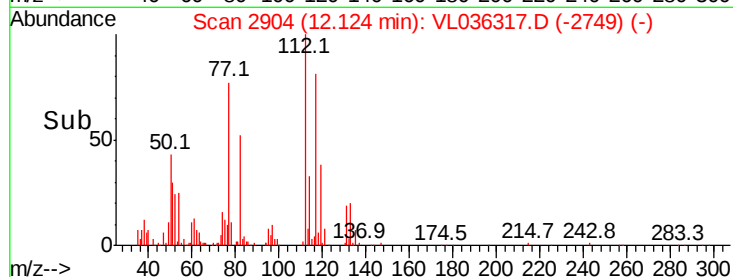
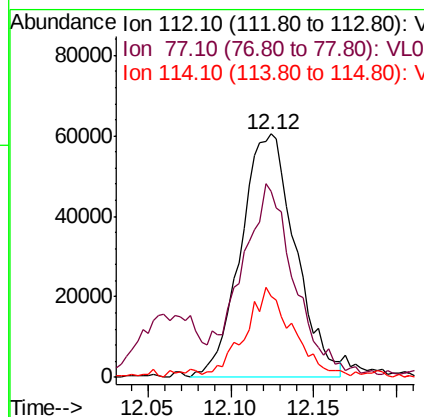
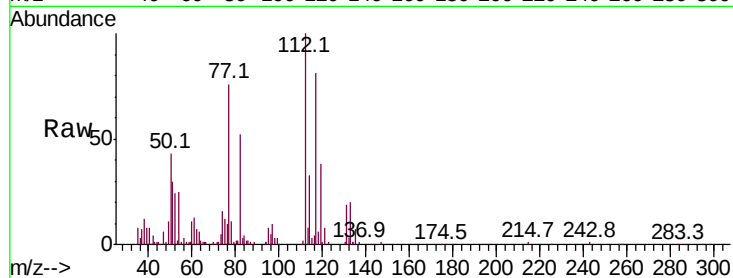
#57
Chlorobenzene
Concen: 0.564 ppbv
RT: 12.12 min Scan# 2904
Delta R.T. -0.00 min
Lab File: VL036317.D
Acq: 10 Feb 2021 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
112	100		
77	70.6	56.1	84.1
114	30.9	28.3	34.5

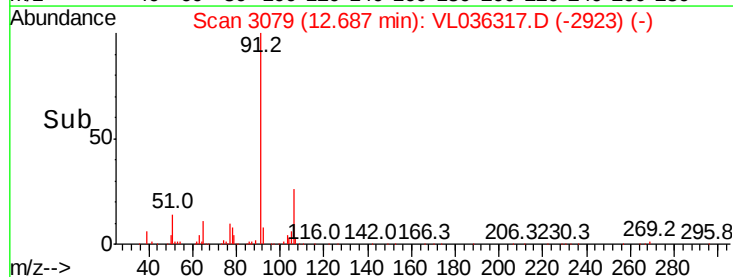
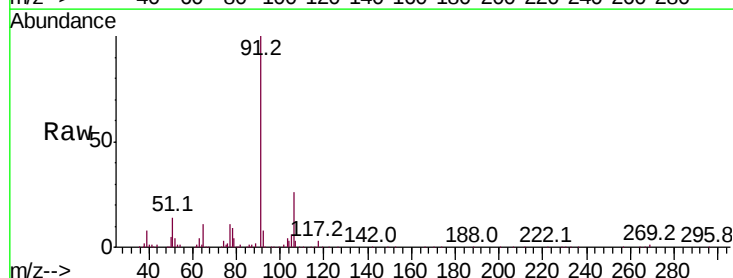
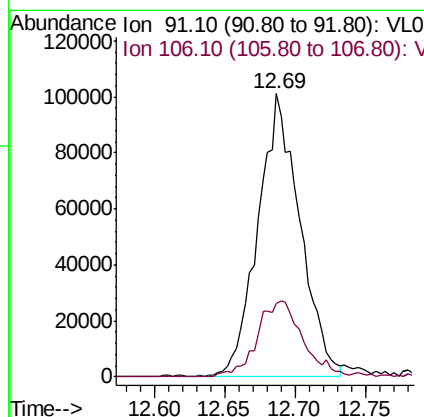
Manual Integrations
APPROVED

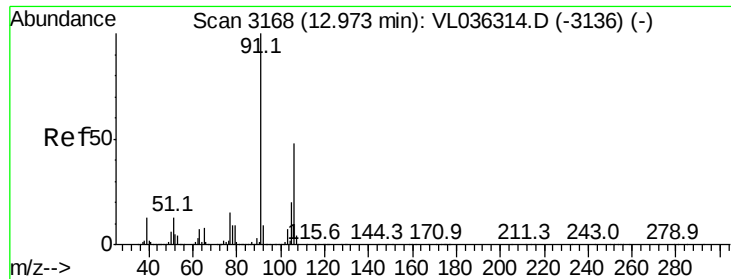
MMDadoda
2/12/2021 1:41:57 PM



#58
Ethyl Benzene
Concen: 0.452 ppbv
RT: 12.69 min Scan# 3079
Delta R.T. 0.00 min
Lab File: VL036317.D
Acq: 10 Feb 2021 13:24

Tgt Ion	Ratio	Lower	Upper
91	100		
106	25.8	23.8	35.6





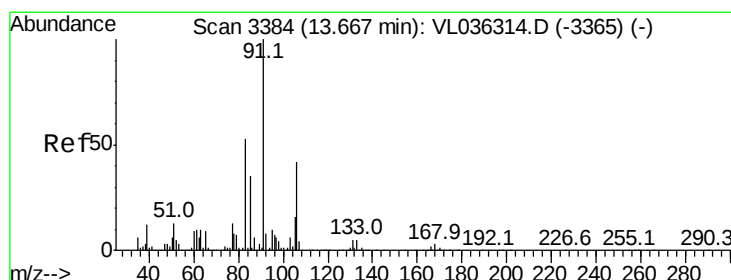
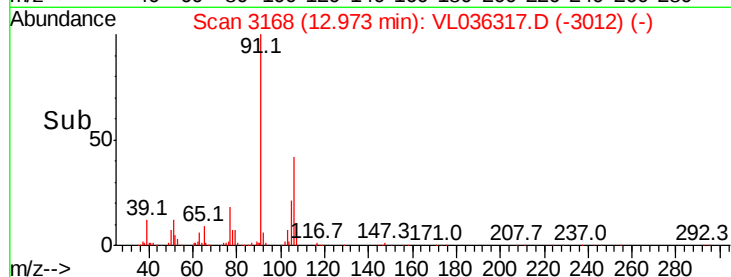
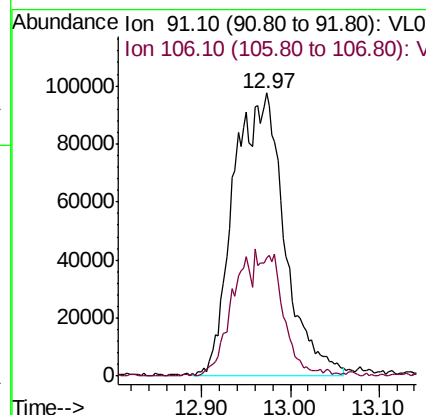
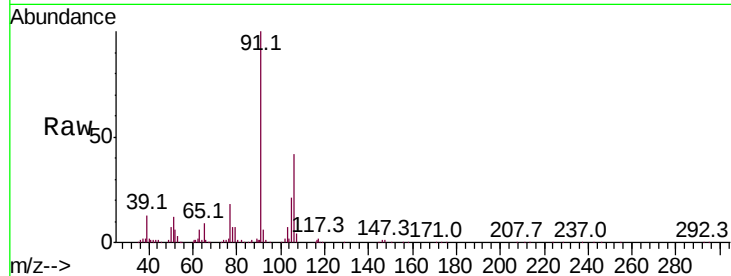
#59
m/p-Xylene
Concen: 0.982 ppbv m
RT: 12.97 min Scan# 3168
Delta R.T. 0.00 min
Lab File: VL036317.D
Acq: 10 Feb 2021 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 91 Resp: 390724
Ion Ratio Lower Upper
91 100
106 0.0 34.2 51.2#

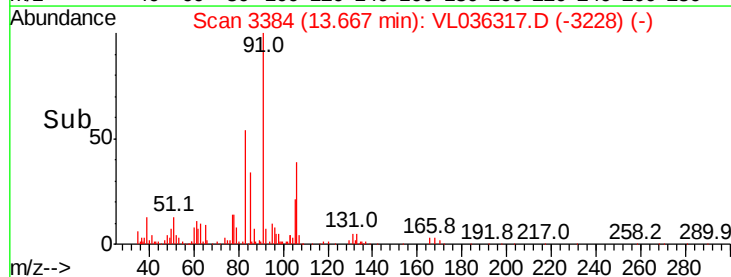
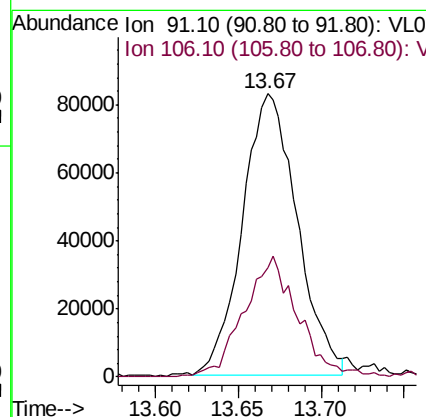
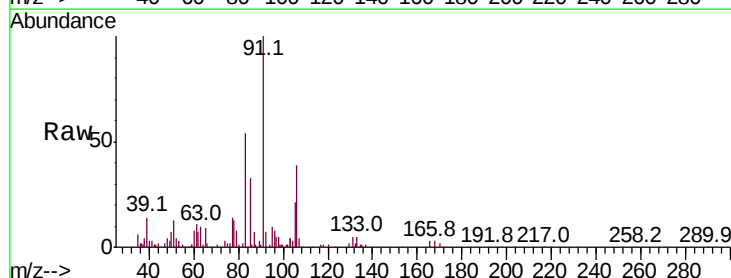
Manual Integrations
APPROVED

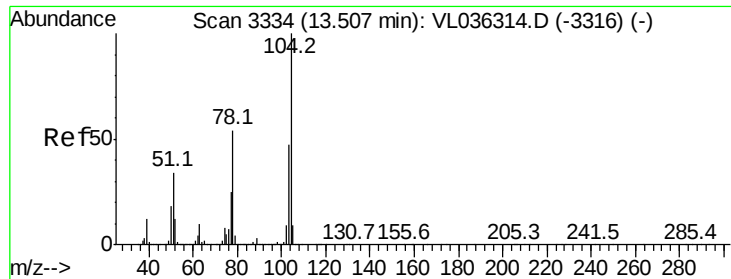
MMDadoda
2/12/2021 1:41:57 PM



#60
o-Xylene
Concen: 0.495 ppbv
RT: 13.67 min Scan# 3384
Delta R.T. 0.00 min
Lab File: VL036317.D
Acq: 10 Feb 2021 13:24

Tgt Ion: 91 Resp: 190059
Ion Ratio Lower Upper
91 100
106 42.4 22.0 66.0





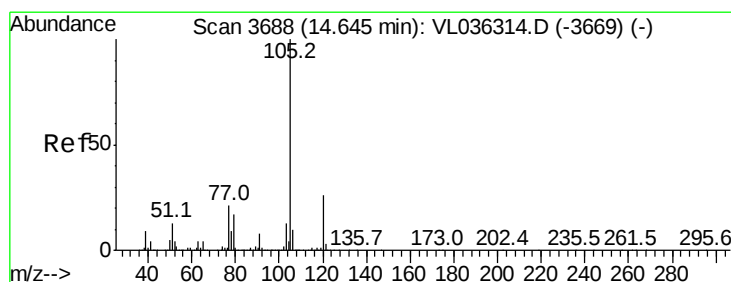
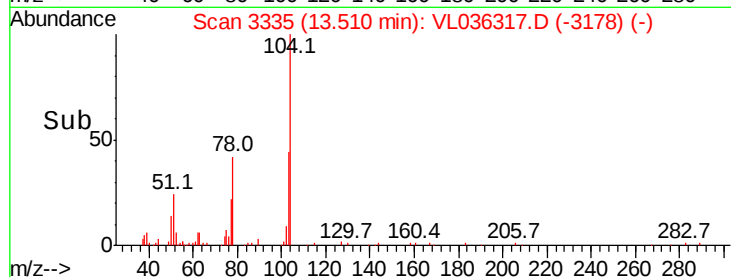
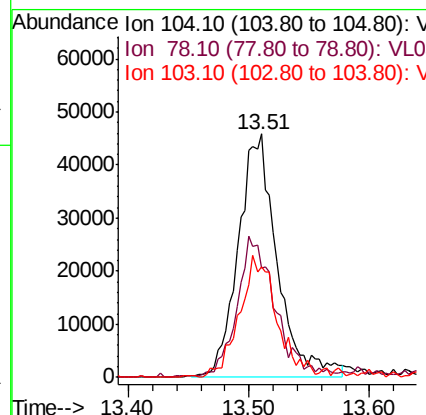
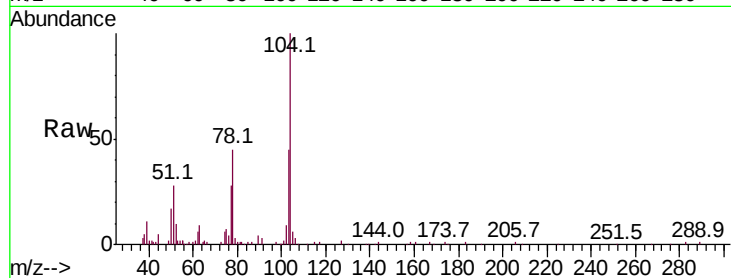
#61
Stvrene
Concen: 0.418 ppbv m
RT: 13.51 min Scan# 3335
Delta R.T. 0.00 min
Lab File: VL036317.D
Acq: 10 Feb 2021 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
104	100		
78	0.0	46.2	69.2#
103	0.0	38.3	57.5#

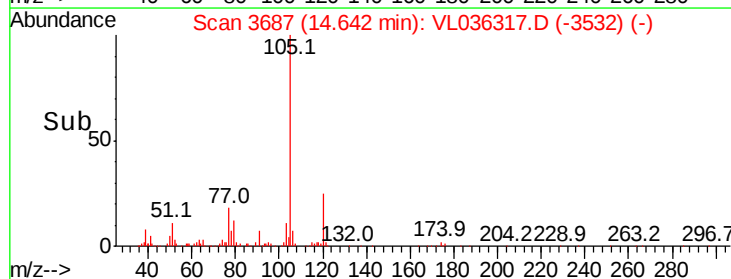
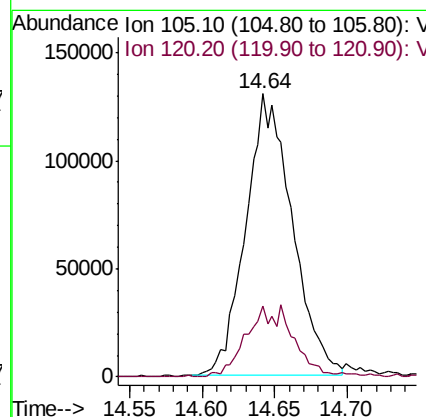
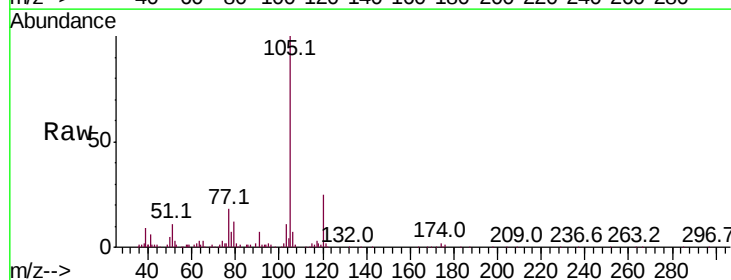
Manual Integrations
APPROVED

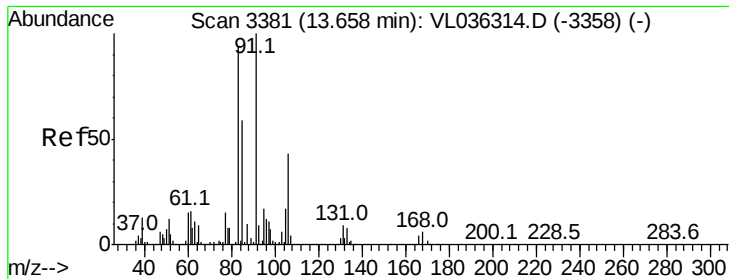
MMDadoda
2/12/2021 1:41:57 PM



#62
Isopropylbenzene
Concen: 0.508 ppbv
RT: 14.64 min Scan# 3687
Delta R.T. -0.00 min
Lab File: VL036317.D
Acq: 10 Feb 2021 13:24

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.9	20.6	30.8





#63

1,1,2,2-Tetrachloroethane

Concen: 0.497 ppbv

RT: 13.66 min Scan# 3381

Delta R.T. 0.00 min

Lab File: VL036317.D

Acq: 10 Feb 2021 13:24

Instrument :

MSVOA_L

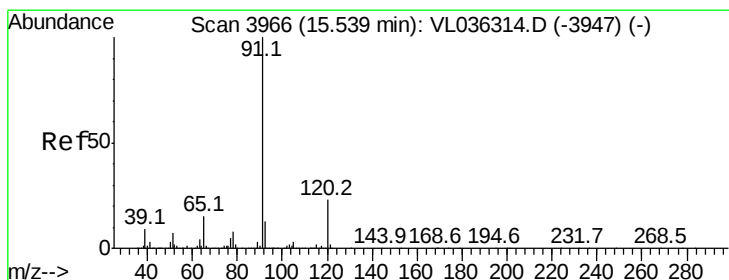
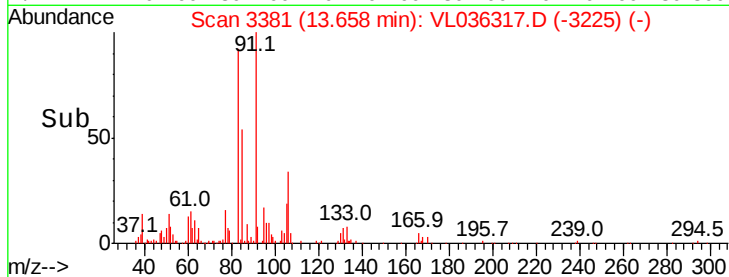
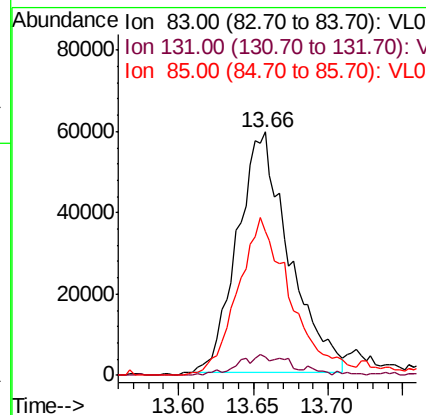
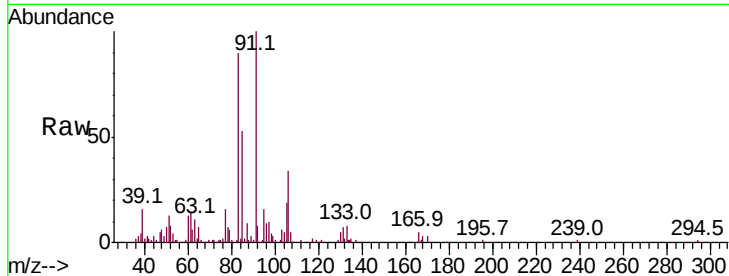
ClientSampleId :

VSTDIC0.5

Tot Ion:	83	Resp:	142036
Ion Ratio	Lower	Upper	
83	100		
131	9.4	4.7	14.0
85	72.2	33.0	98.9

Manual Integrations
APPROVED

MMDadoda
2/12/2021 1:41:57 PM



#64

n-propylbenzene

Concen: 0.483 ppbv

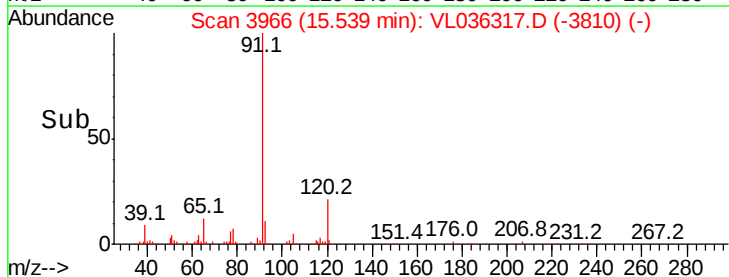
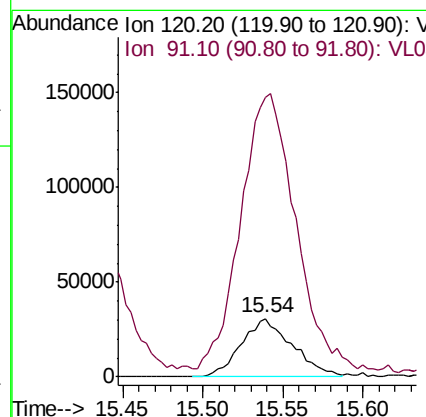
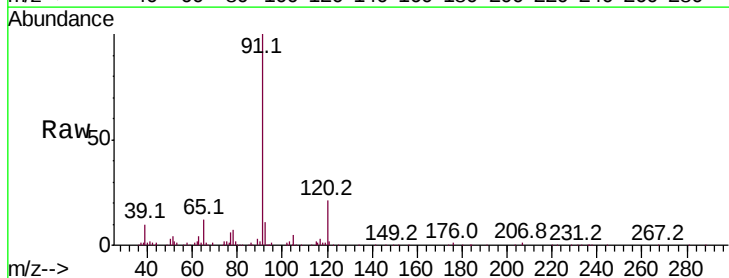
RT: 15.54 min Scan# 3966

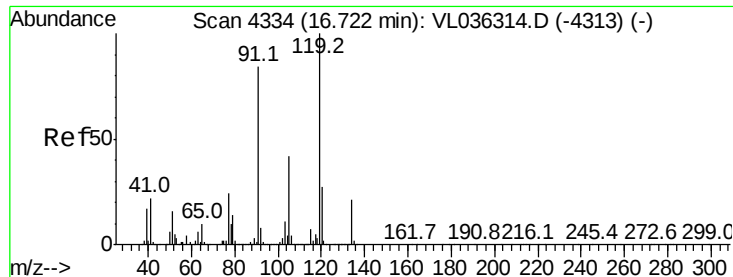
Delta R.T. 0.00 min

Lab File: VL036317.D

Acq: 10 Feb 2021 13:24

Tgt Ion:	120	Resp:	67727
Ion Ratio	Lower	Upper	
120	100		
91	549.6	387.2	580.8





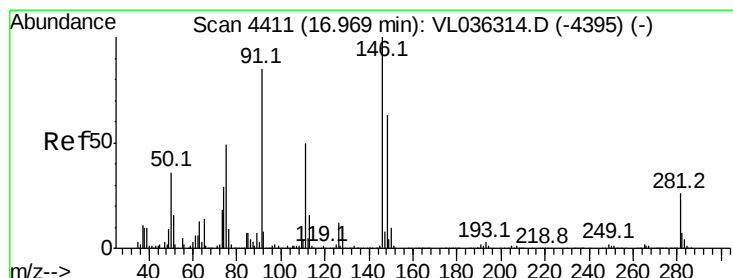
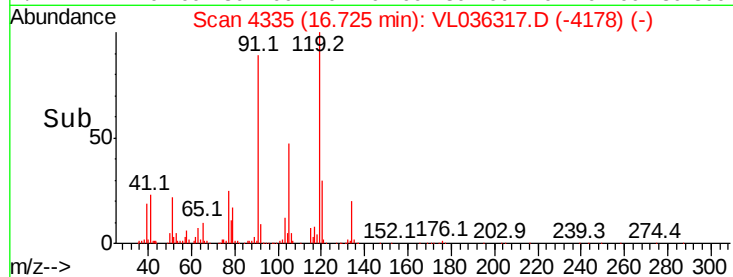
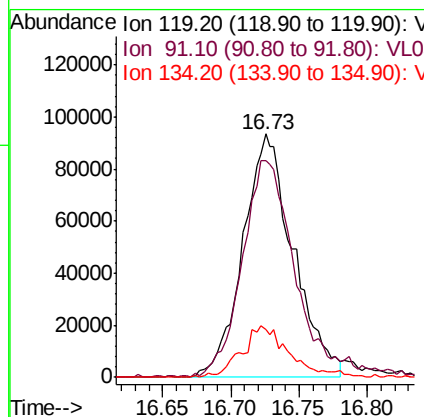
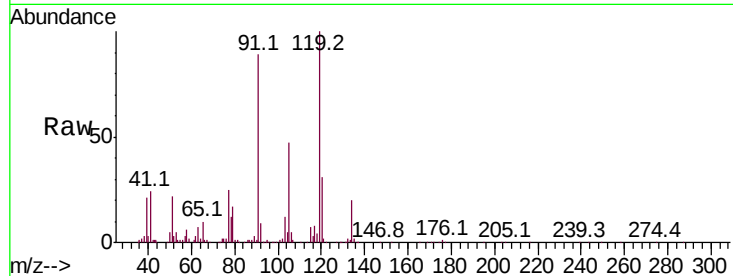
#65
tert-Butylbenzene
Concen: 0.492 ppbv
RT: 16.73 min Scan# 4335
Delta R.T. 0.00 min
Lab File: VL036317.D
Acq: 10 Feb 2021 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
119	100	237829		
91	96.7	70.5	105.7	
134	20.5	15.8	23.8	

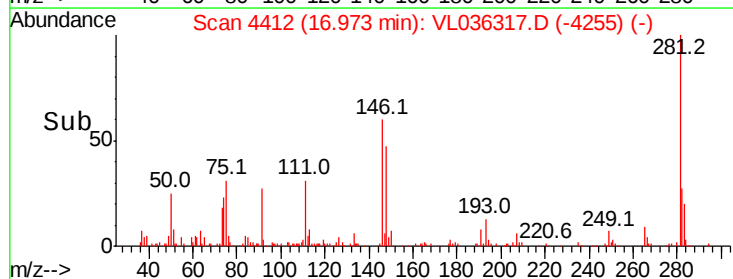
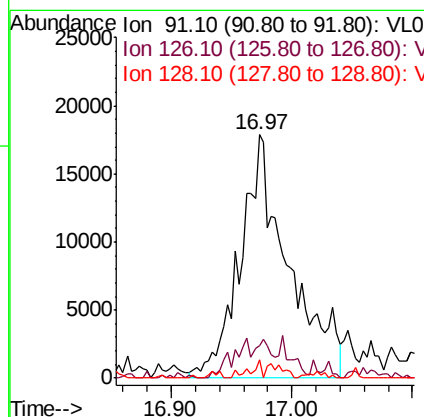
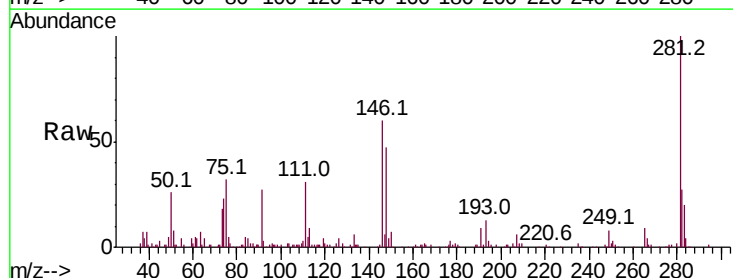
Manual Integrations
APPROVED

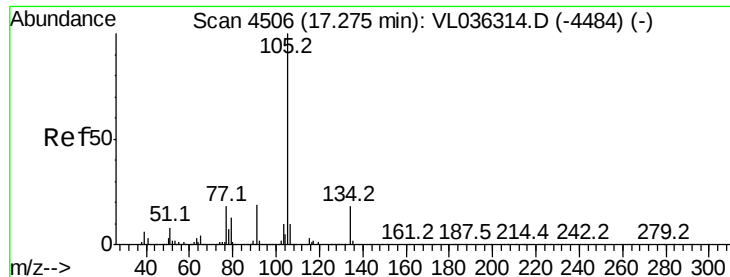
MMDadoda
2/12/2021 1:41:57 PM



#66
Benzyl Chloride
Concen: 0.398 ppbv m
RT: 16.97 min Scan# 4412
Delta R.T. 0.00 min
Lab File: VL036317.D
Acq: 10 Feb 2021 13:24

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	49161		
126	0.0	12.9	19.3#	
128	4.2	4.2	6.2	





#67

sec-Butylbenzene

Concen: 0.498 ppbv m

RT: 17.27 min Scan# 4506

Delta R.T. 0.00 min

Lab File: VL036317.D

Acq: 10 Feb 2021 13:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 105 Resp: 357681

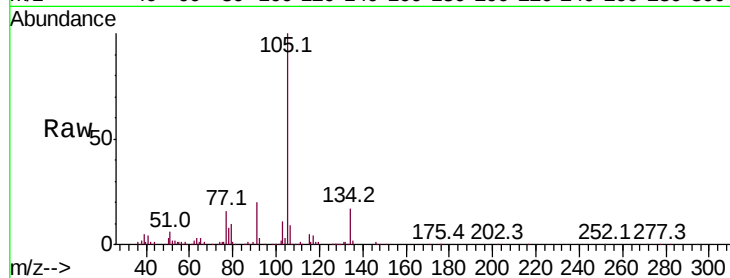
Ion Ratio Lower Upper

105 100

134 17.0 14.2 21.4

Manual Integrations
APPROVED

MMDadoda
2/12/2021 1:41:57 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.27

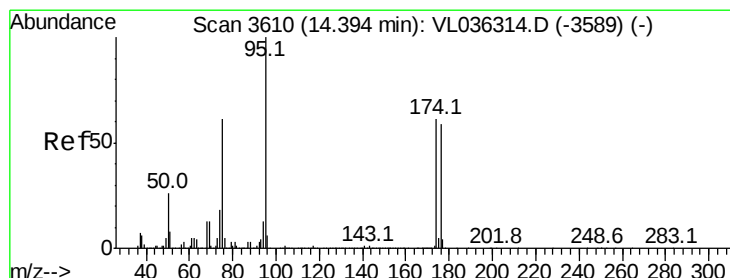
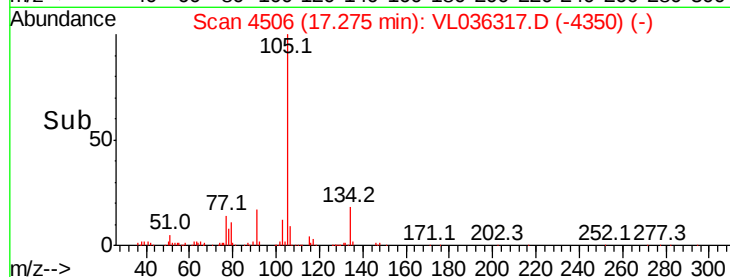
150000

100000

50000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 10.020 ppbv

RT: 14.39 min Scan# 3610

Delta R.T. 0.00 min

Lab File: VL036317.D

Acq: 10 Feb 2021 13:24

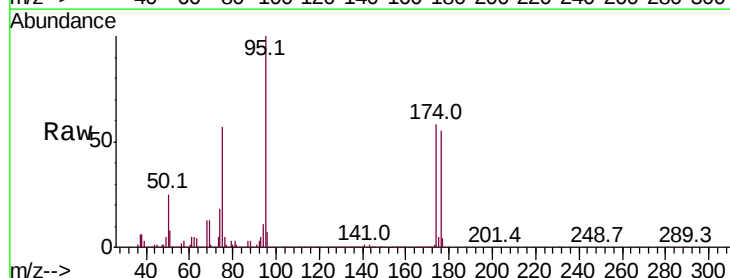
Tgt Ion: 95 Resp: 2589043

Ion Ratio Lower Upper

95 100

174 62.9 49.8 74.6

175 4.5 3.7 5.5



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

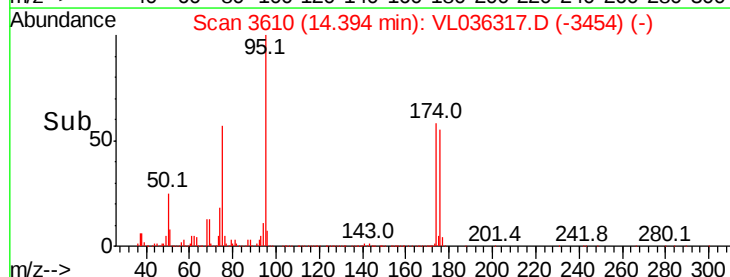
14.39

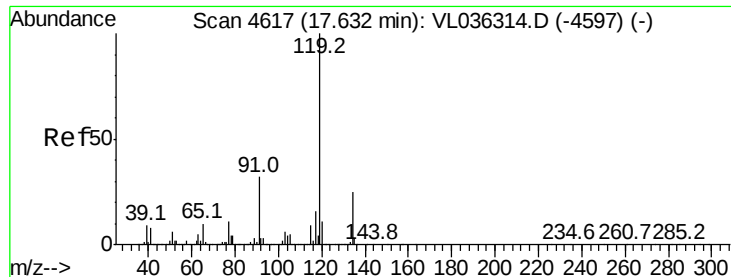
1000000

500000

0

Time-->





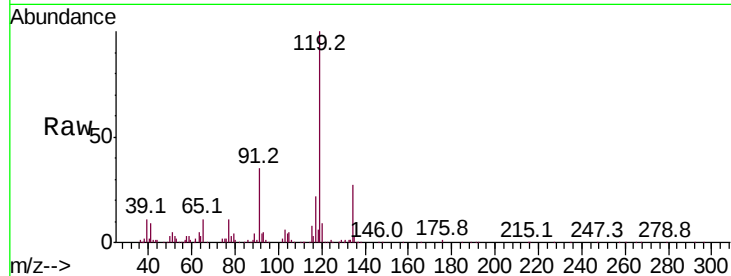
#69
p-Isopropyltoluene
Concen: 0.449 ppbv
RT: 17.64 min Scan# 4618
Delta R.T. 0.00 min
Lab File: VL036317.D
Acq: 10 Feb 2021 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

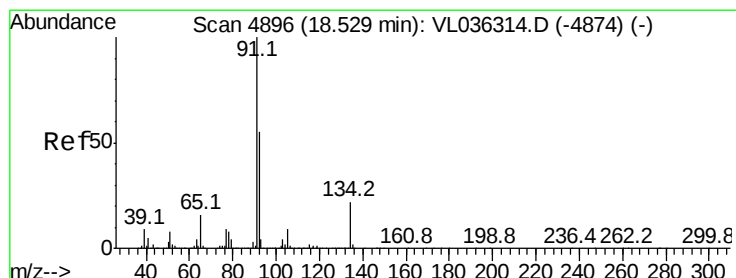
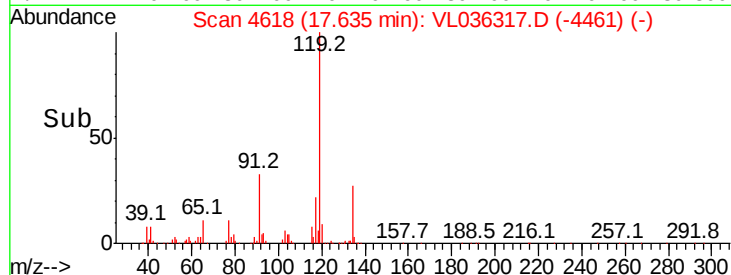
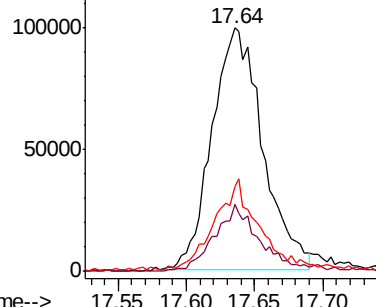
Tot Ion	Ratio	Resp Lower	Upper
119	100		
134	25.5	20.1	30.1
91	35.1	25.8	38.6

Manual Integrations
APPROVED

MMDadoda
2/12/2021 1:41:57 PM

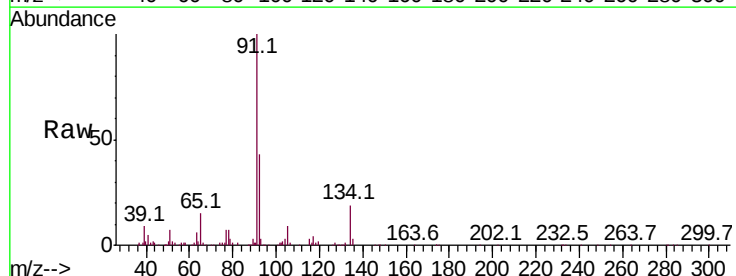


Abundance Ion 119.10 (118.80 to 119.80): V
Ion 134.20 (133.90 to 134.90): V
Ion 91.10 (90.80 to 91.80): V

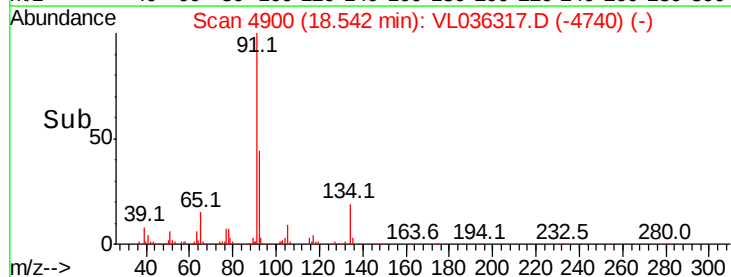
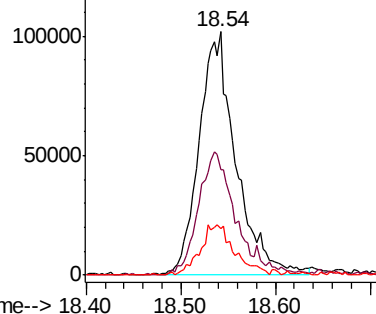


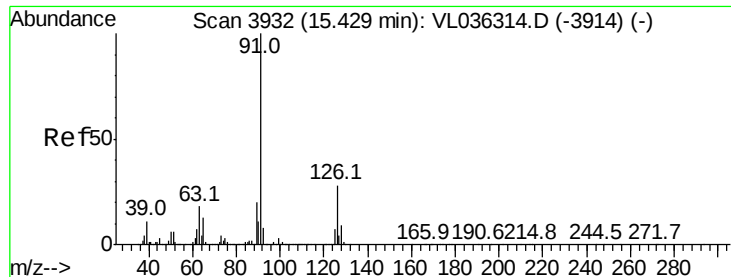
#70
n-Butylbenzene
Concen: 0.452 ppbv m
RT: 18.54 min Scan# 4900
Delta R.T. 0.01 min
Lab File: VL036317.D
Acq: 10 Feb 2021 13:24

Tgt Ion	Ratio	Resp Lower	Upper
91	100		
92	53.1	43.7	65.5
134	0.0	17.4	26.0#



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: 0.477 ppbv

RT: 15.43 min Scan# 3933

Delta R.T. 0.00 min

Lab File: VL036317.D

Acq: 10 Feb 2021 13:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 213879

Ion Ratio Lower Upper

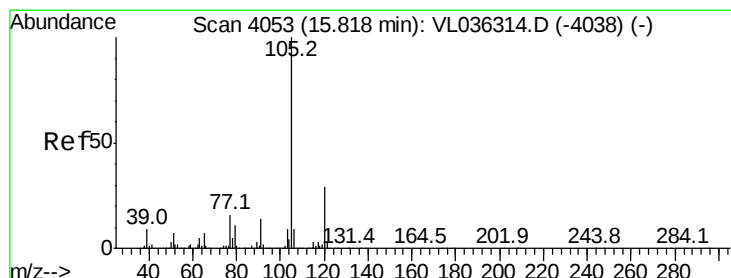
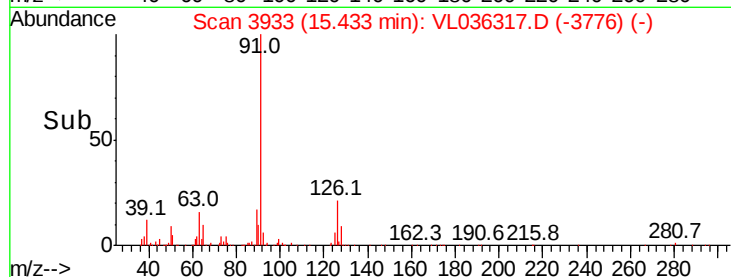
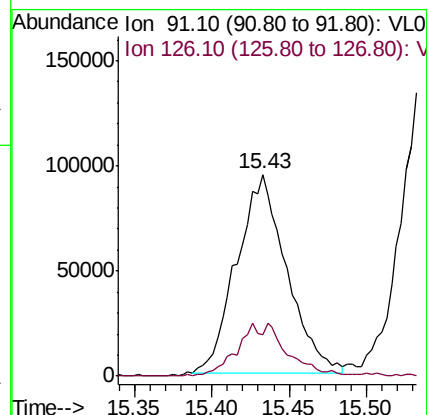
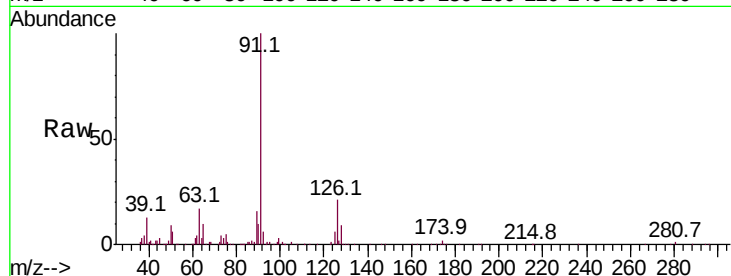
91 100

126 27.2 11.5 46.1

Manual Integrations
APPROVED

MMDadoda

2/12/2021 1:41:57 PM



#72

4-Ethyltoluene

Concen: 0.450 ppbv

RT: 15.82 min Scan# 4054

Delta R.T. 0.00 min

Lab File: VL036317.D

Acq: 10 Feb 2021 13:24

Tgt Ion: 105 Resp: 194787

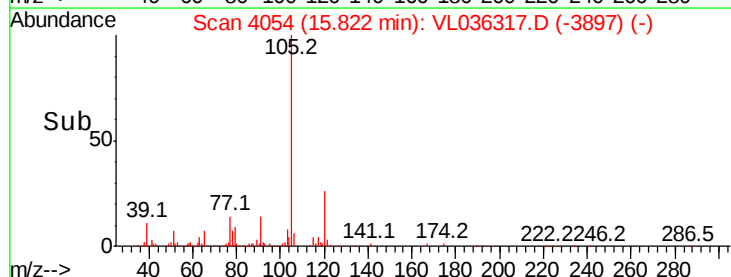
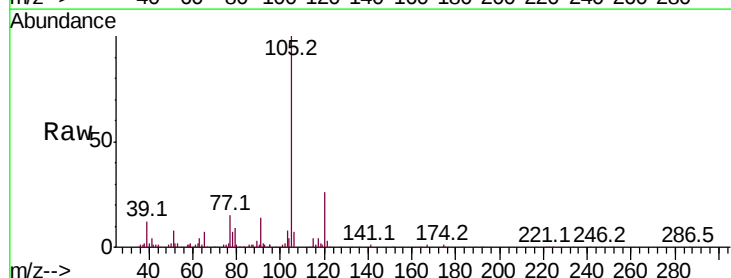
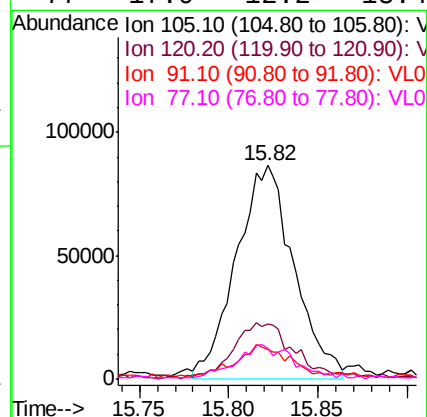
Ion Ratio Lower Upper

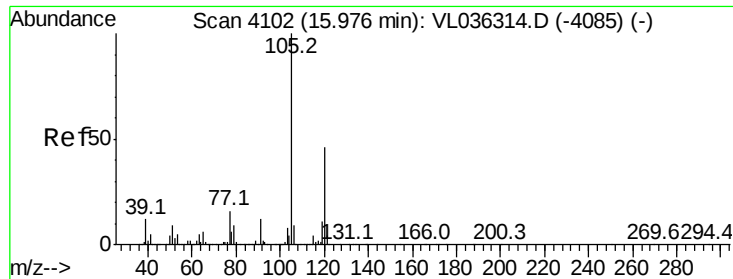
105 100

120 28.6 23.2 34.8

91 13.7 11.0 16.4

77 17.9 12.2 18.4





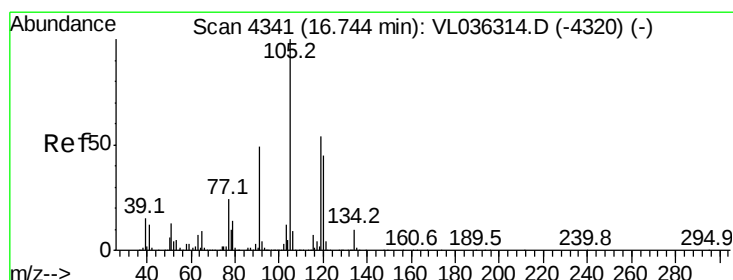
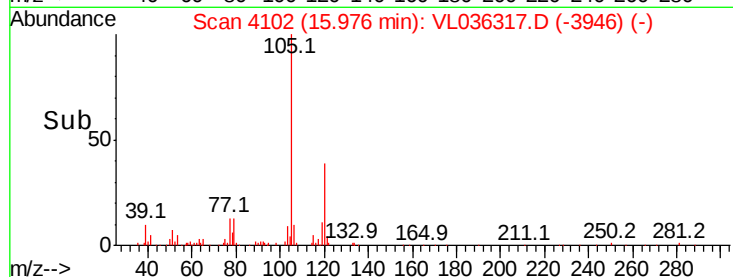
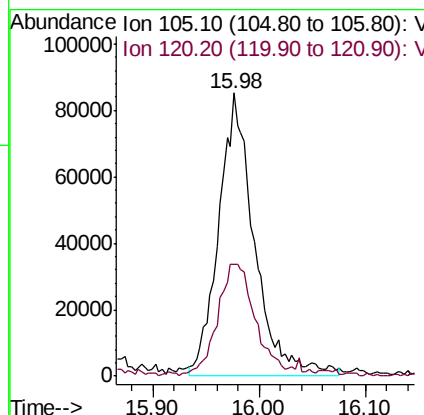
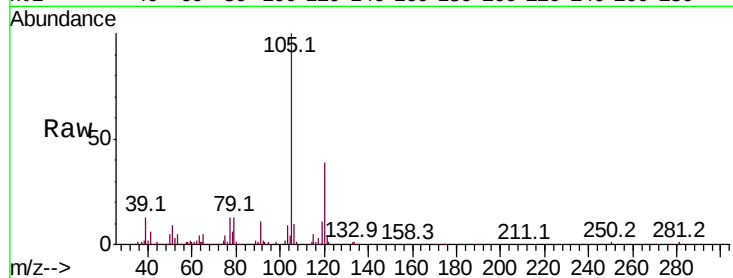
#73
 1,3,5-Trimethylbenzene
 Concen: 0.484 ppbv m
 RT: 15.98 min Scan# 4102
 Delta R.T. 0.00 min
 Lab File: VL036317.D
 Acq: 10 Feb 2021 13:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
105	100		
120	39.3	36.9	55.3

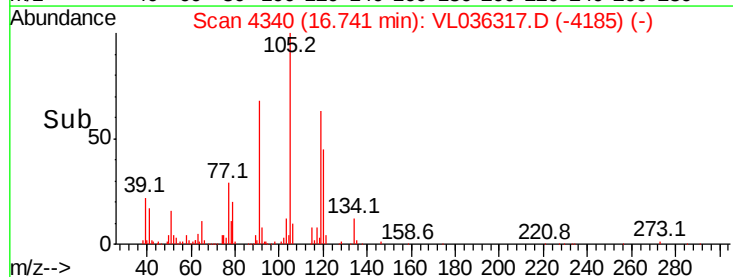
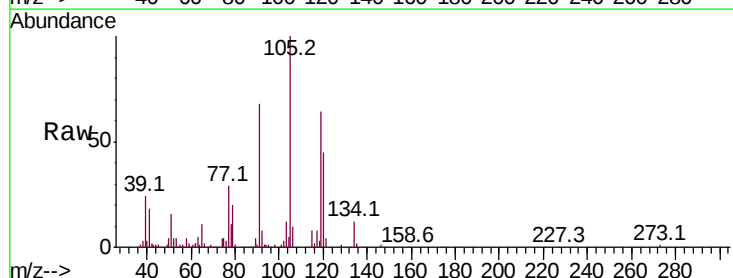
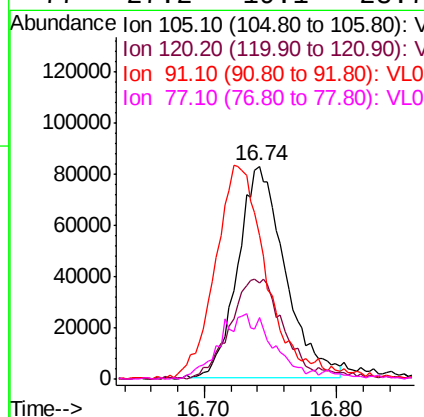
Manual Integrations
 APPROVED

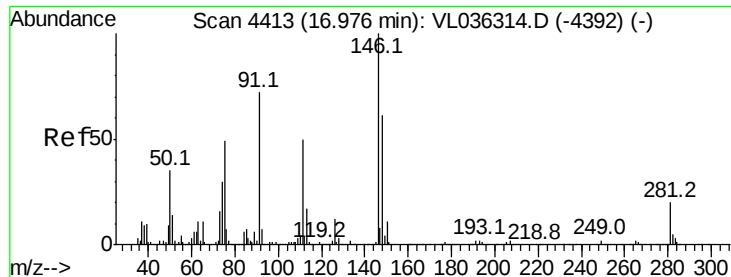
MMDadoda
 2/12/2021 1:41:57 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.479 ppbv
 RT: 16.74 min Scan# 4340
 Delta R.T. -0.00 min
 Lab File: VL036317.D
 Acq: 10 Feb 2021 13:24

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.9	35.8	53.6
91	64.4	39.8	59.6#
77	27.2	19.1	28.7





#75

1,3-Dichlorobenzene

Concen: 0.532 ppbv m

RT: 16.98 min Scan# 4415

Delta R.T. 0.01 min

Lab File: VL036317.D

Acq: 10 Feb 2021 13:24

Instrument :

MSVOA_L

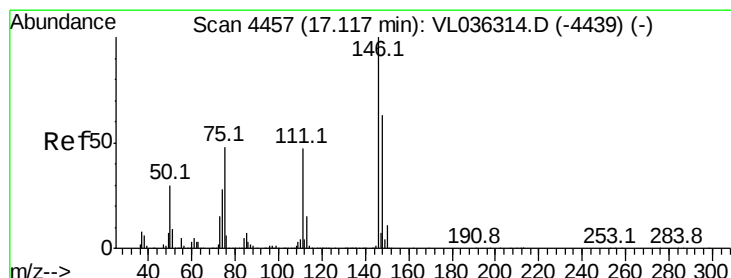
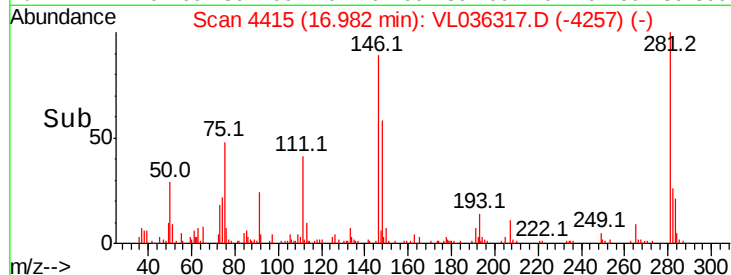
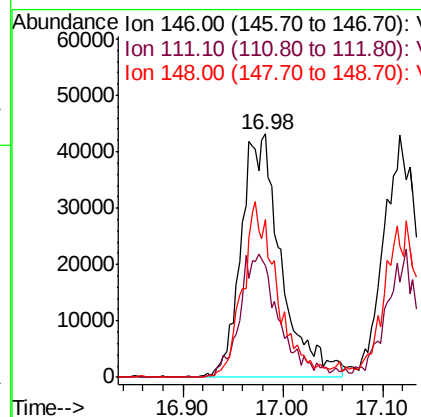
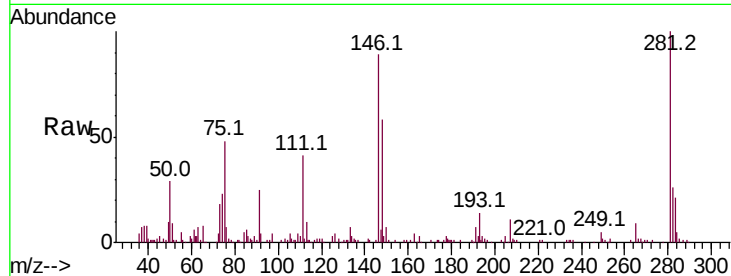
ClientSampleId :

VSTDIC0.5

Tot Ion:	146	Resp:	120874
Ion Ratio	Lower	Upper	
146	100		
111	50.7	24.9	74.6
148	63.1	31.9	95.9

Manual Integrations
APPROVED

MMDadoda
2/12/2021 1:41:57 PM



#76

1,4-Dichlorobenzene

Concen: 0.547 ppbv m

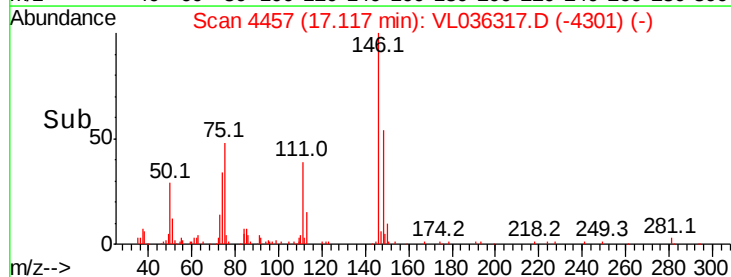
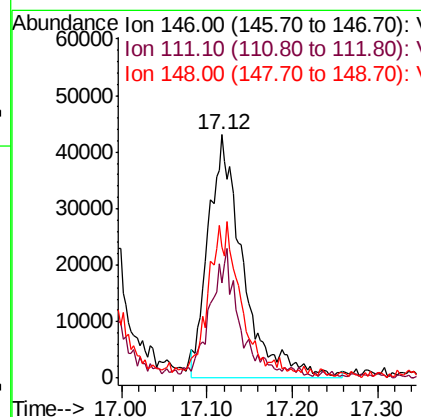
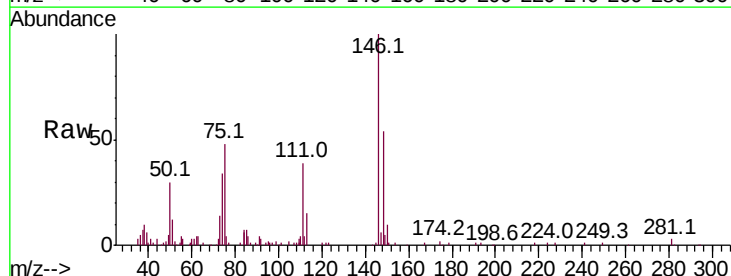
RT: 17.12 min Scan# 4457

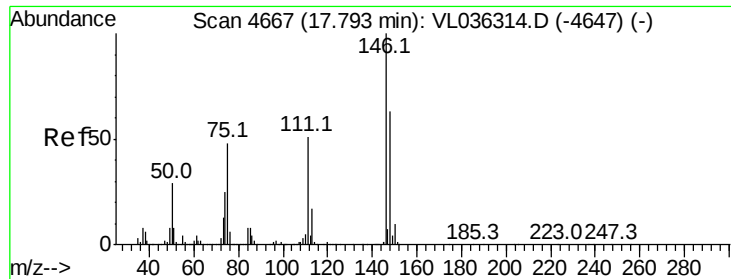
Delta R.T. 0.00 min

Lab File: VL036317.D

Acq: 10 Feb 2021 13:24

Tgt Ion:	146	Resp:	122605
Ion Ratio	Lower	Upper	
146	100		
111	46.7	23.6	71.0
148	60.0	31.6	95.0





#77

1,2-Dichlorobenzene

Concen: 0.504 ppbv m

RT: 17.80 min Scan# 4668

Delta R.T. 0.00 min

Lab File: VL036317.D

Acq: 10 Feb 2021 13:24

Instrument :

MSVOA_L

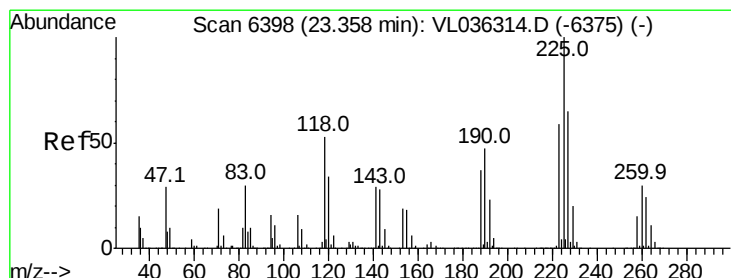
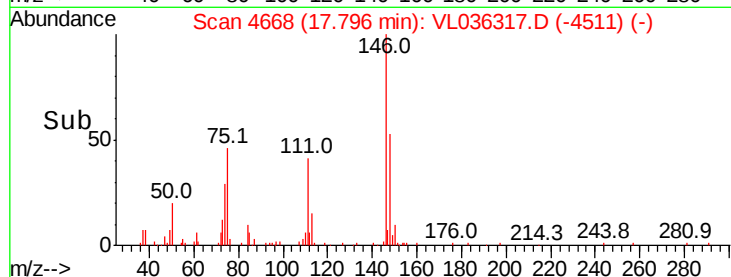
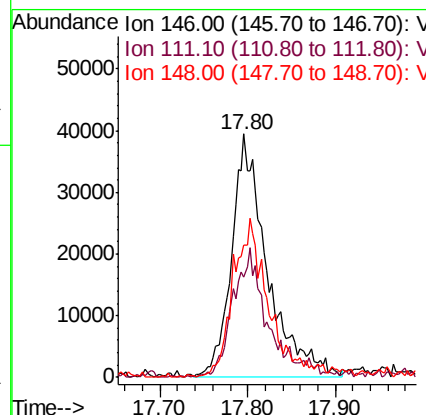
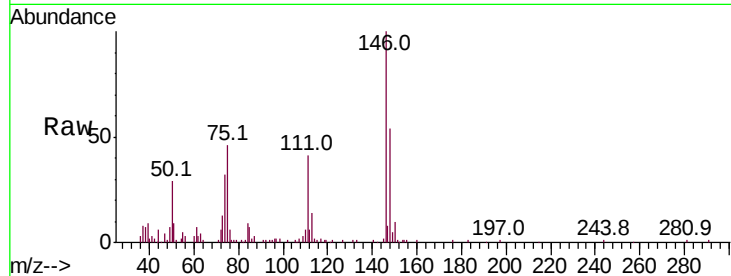
ClientSampleId :

VSTDIC0.5

Tot Ion:	146	Resp:	111722
Ion Ratio	Lower	Upper	
146	100		
111	0.0	25.9	77.8#
148	0.0	32.5	97.4#

Manual Integrations
APPROVED

MMDadoda
2/12/2021 1:41:57 PM



#78

Hexachloro-1,3-Butadiene

Concen: 0.587 ppbv m

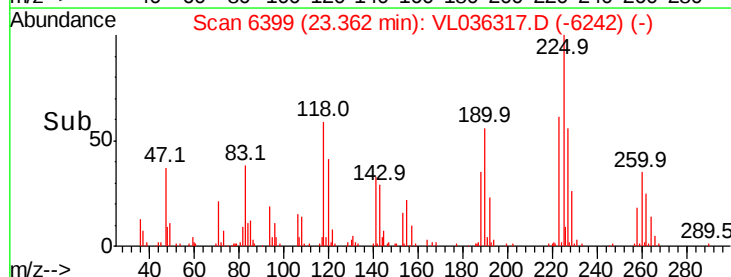
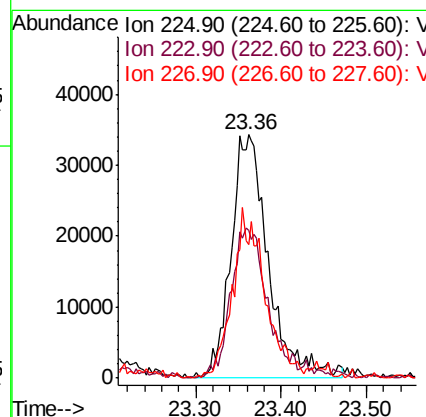
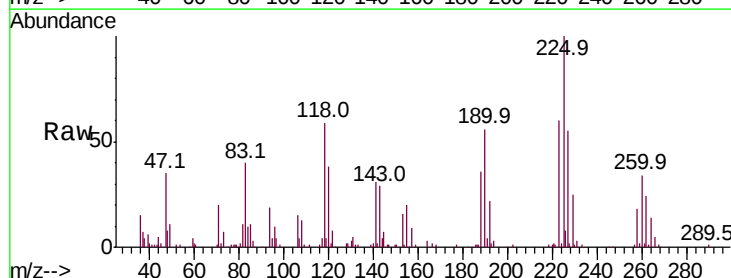
RT: 23.36 min Scan# 6399

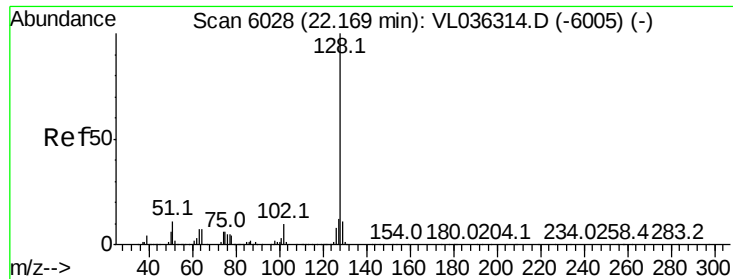
Delta R.T. 0.00 min

Lab File: VL036317.D

Acq: 10 Feb 2021 13:24

Tgt Ion:	225	Resp:	104069
Ion Ratio	Lower	Upper	
225	100		
223	62.1	50.8	76.2
227	60.3	52.2	78.2





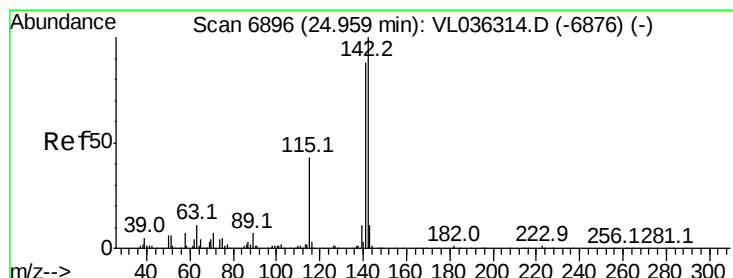
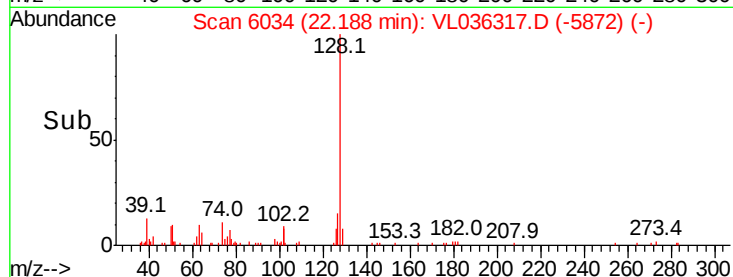
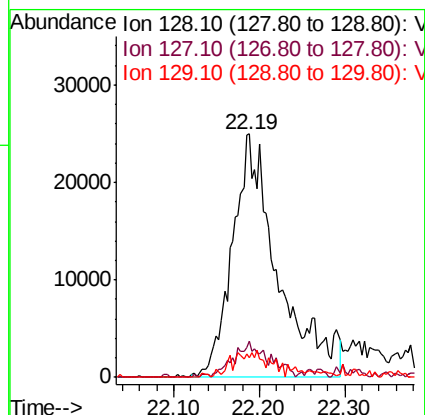
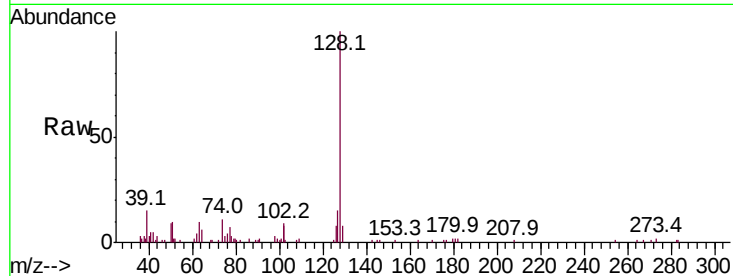
#79
Naphthalene
Concen: 0.371 ppbv m
RT: 22.19 min Scan# 6034
Delta R.T. 0.02 min
Lab File: VL036317.D
Acq: 10 Feb 2021 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
128	100	91820		
127	14.7	9.6	14.4#	
129	7.8	8.5	12.7#	

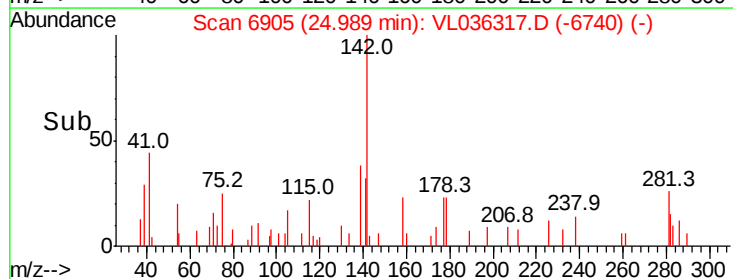
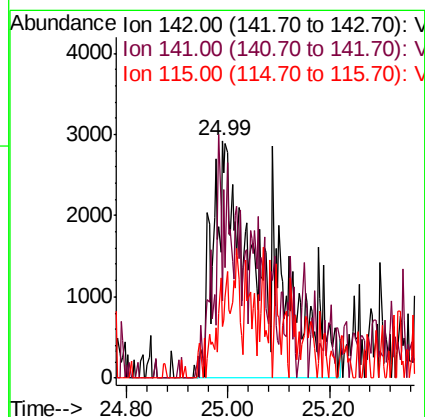
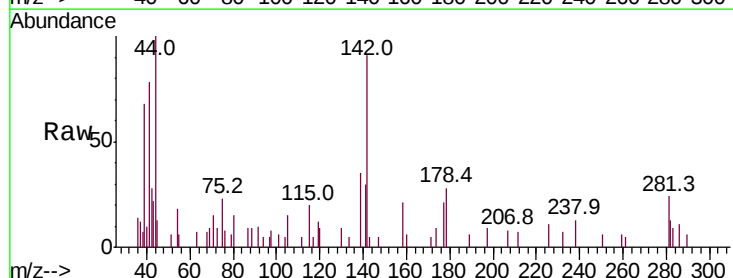
Manual Integrations
APPROVED

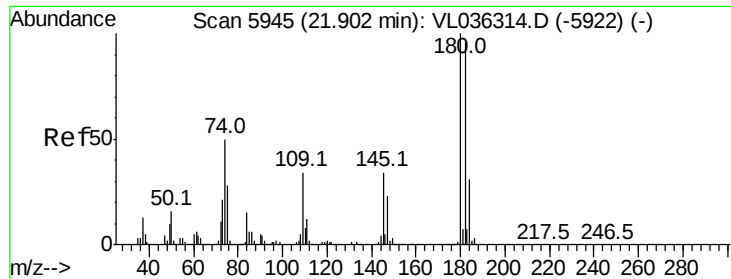
MMDadoda
2/12/2021 1:41:57 PM



#80
Naphthalene, 2-methyl-
Concen: 0.389 ppbv m
RT: 24.99 min Scan# 6905
Delta R.T. 0.03 min
Lab File: VL036317.D
Acq: 10 Feb 2021 13:24

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	20545		
141	5.7	64.4	96.6#	
115	3.3	34.6	51.8#	





#81
 1,2,4-Trichlorobenzene
 Concen: 0.486 ppbv m
 RT: 21.91 min Scan# 5949
 Delta R.T. 0.01 min
 Lab File: VL036317.D
 Acq: 10 Feb 2021 13:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion:	180	Resp:	70201
Ion Ratio	Lower	Upper	
180	100		
182	89.8	80.2	120.4
184	31.1	25.0	37.6

Manual Integrations
 APPROVED

MMDadoda
 2/12/2021 1:41:57 PM

