

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101718\
 Data File : VL032630.D
 Acq On : 17 Oct 2018 4:41
 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
 10/19/2018 4:36:26 PM

Quant Time: Oct 17 06:58:35 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Oct 17 2018
 QLast Update : Wed Oct 17 05:31:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1206984	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	2736890	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.26	117	2586715	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.60	95	2050232	10.47	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.70%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.09	85	97748	0.64	ppbv	96
3) Chlorodifluoromethane	3.02	51	53294	0.53	ppbv	97
4) Chloromethane	3.18	50	29447m	0.53	ppbv	
5) Vinyl Chloride	3.30	62	28216	0.51	ppbv	100
6) Bromomethane	3.53	94	18903	0.54	ppbv	86
7) Chloroethane	3.62	64	11352m	0.52	ppbv	
8) Dichlorotetrafluoroethane	3.23	85	76244	0.56	ppbv	100
9) Propene	3.05	41	17766	0.47	ppbv	98
10) Heptane	8.26	43	53920	0.39	ppbv	98
11) Trichlorofluoromethane	4.02	101	83663	0.56	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.57	101	62916	0.57	ppbv	99
13) Ethanol	3.68	45	7035m	0.67	ppbv	
14) Bromoethene	3.81	108	20596	0.50	ppbv #	95
15) Acetone	3.93	43	60077	0.57	ppbv	94
16) 1,3-Butadiene	3.38	39	20691m	0.49	ppbv	
17) tert-Butyl alcohol	4.42	59	3653m	0.42	ppbv	
18) 1,1-Dichloroethene	4.37	96	24711m	0.50	ppbv	
19) Isopropyl Alcohol	4.06	45	37308	0.54	ppbv #	92
20) Methylene Chloride	4.43	84	28793	0.59	ppbv	92
21) Allyl Chloride	4.50	41	40252	0.50	ppbv	97
22) trans-1,2-Dichloroethene	4.99	96	30979	0.54	ppbv	95
23) Vinyl Acetate	5.18	43	67257	0.40	ppbv #	96
24) 1,1-Dichloroethane	5.10	63	79235	0.54	ppbv	99
25) Ethyl Acetate	5.80	43	125930	0.51	ppbv	98
26) Hexane	5.80	57	51994	0.46	ppbv	82
27) Carbon Disulfide	4.64	76	74623m	0.55	ppbv	
28) Methyl tert-Butyl Ether	5.15	73	59358	0.45	ppbv	97
29) Chloroform	5.86	83	107528	0.56	ppbv	96
30) Cyclohexane	7.27	84	40775m	0.46	ppbv	
31) cis-1,2-Dichloroethene	5.66	61	45585	0.43	ppbv	96
32) 1,1,1-Trichloroethane	6.63	97	98872	0.53	ppbv	97
34) 2-Butanone	5.36	43	67417	0.48	ppbv	97
35) Carbon Tetrachloride	7.15	117	103173	0.52	ppbv	94
36) Benzene	7.02	78	89915	0.42	ppbv	97
37) 1,2-Dichloroethane	6.43	62	75301m	0.52	ppbv	
38) Trichloroethene	7.98	130	34535	0.43	ppbv #	83
39) 1,2-Dichloropropane	7.75	63	41865	0.47	ppbv	87
40) 1,4-Dioxane	8.03	88	13033m	0.45	ppbv	
41) Tetrahydrofuran	6.19	42	29410m	0.37	ppbv	
42) Bromodichloromethane	7.93	83	99370	0.49	ppbv	95
43) Methyl Methacrylate	8.16	69	30090m	0.36	ppbv	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101718\
 Data File : VL032630.D
 Acq On : 17 Oct 2018 4:41
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

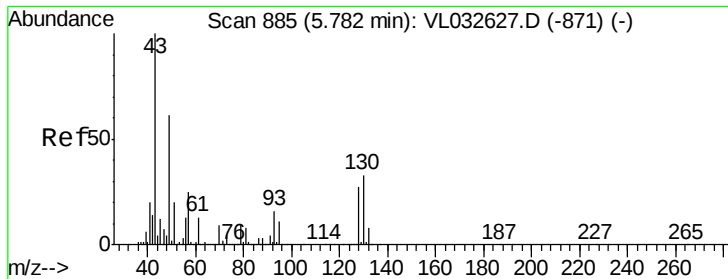
Manual Integrations
 APPROVED

MMDadoda
 10/19/2018 4:36:26 PM

Quant Time: Oct 17 06:58:35 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Oct 17 2018
 QLast Update : Wed Oct 17 05:31:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.01	57	154762m	0.40	ppbv	
45) t-1,3-Dichloropropene	9.44	75	37278m	0.35	ppbv	
46) cis-1,3-Dichloropropene	8.86	75	41965m	0.35	ppbv	
47) 1,1,2-Trichloroethane	9.63	97	51511m	0.49	ppbv	
48) Dibromochloromethane	10.47	129	84368	0.48	ppbv	100
49) Bromoform	13.22	173	63846	0.48	ppbv	98
50) 4-Methyl-2-Pentanone	8.92	43	79299	0.37	ppbv	97
51) 2-Hexanone	10.32	43	53926	0.32	ppbv #	90
52) Tetrachloroethene	11.40	164	31652m	0.45	ppbv	
53) Toluene	9.97	91	84369	0.34	ppbv	99
54) 1,2-Dibromoethane	10.78	107	65098	0.44	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.30	131	66670m	0.57	ppbv	
57) Chlorobenzene	12.32	112	101060	0.52	ppbv	89
58) Ethyl Benzene	12.89	91	103069m	0.36	ppbv	
59) m/p-Xylene	13.17	91	211621m	0.82	ppbv	
60) o-Xylene	13.88	91	105970m	0.42	ppbv	
61) Styrene	13.71	104	45222	0.29	ppbv	90
62) Isopropylbenzene	14.85	105	158959	0.44	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.86	83	117786m	0.53	ppbv	
64) n-propylbenzene	15.75	120	38954m	0.43	ppbv	
65) tert-Butylbenzene	16.93	119	128513	0.42	ppbv	89
66) Benzyl Chloride	17.18	91	72766m	0.43	ppbv	
67) sec-Butylbenzene	17.48	105	204002	0.44	ppbv	100
69) p-Isopropyltoluene	17.84	119	133363	0.38	ppbv	93
70) n-Butylbenzene	18.74	91	155035	0.40	ppbv	97
71) 2-Chlorotoluene	15.63	91	103620m	0.39	ppbv	
72) 4-Ethyltoluene	16.02	105	99867	0.36	ppbv #	94
73) 1,3,5-Trimethylbenzene	16.18	105	104616	0.38	ppbv	99
74) 1,2,4-Trimethylbenzene	16.95	105	137701	0.46	ppbv	92
75) 1,3-Dichlorobenzene	17.18	146	90656	0.52	ppbv	92
76) 1,4-Dichlorobenzene	17.32	146	75834m	0.48	ppbv	
77) 1,2-Dichlorobenzene	18.00	146	83382m	0.51	ppbv	
78) Hexachloro-1,3-Butadiene	23.56	225	66700m	0.84	ppbv	
79) Naphthalene	22.44	128	63853m	0.31	ppbv	
80) Naphthalene,2-methyl-	25.14	142	7346	0.19	ppbv	87
81) 1,2,4-Trichlorobenzene	22.15	180	35821m	0.36	ppbv	

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.78 min Scan# 884

Delta R.T. -0.00 min

Lab File: VL032630.D

Acq: 17 Oct 2018 4:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 49 Resp: 1206984

Ion Ratio Lower Upper

49 100

128 46.8 22.3 66.8

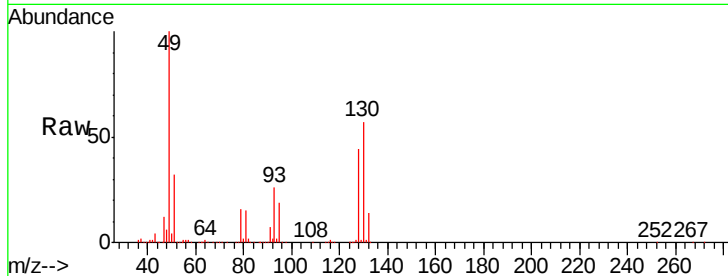
130 60.1 28.4 85.3

Manual Integrations

APPROVED

MMDadoda

10/19/2018 4:36:26 PM

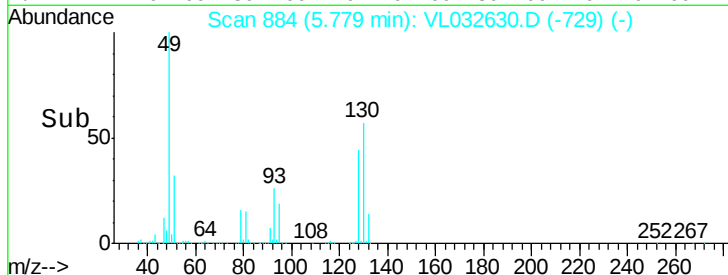


Abundance Ion 49.10 (48.80 to 49.80): VL0

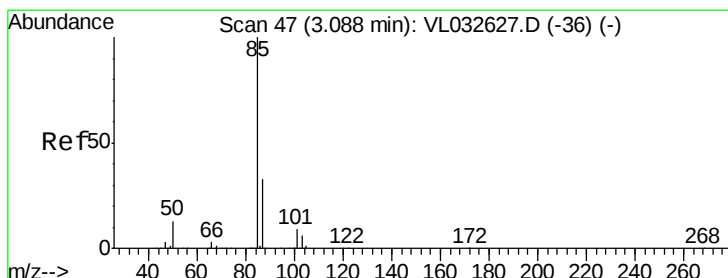
Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

Time-->



Time-->



#2

Dichlorodifluoromethane

Concen: 0.64 ppbv

RT: 3.09 min Scan# 47

Delta R.T. 0.00 min

Lab File: VL032630.D

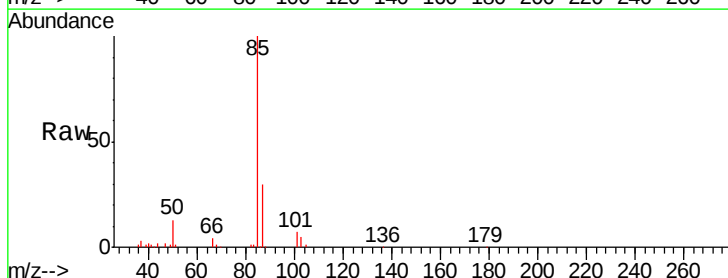
Acq: 17 Oct 2018 4:41

Tgt Ion: 85 Resp: 97748

Ion Ratio Lower Upper

85 100

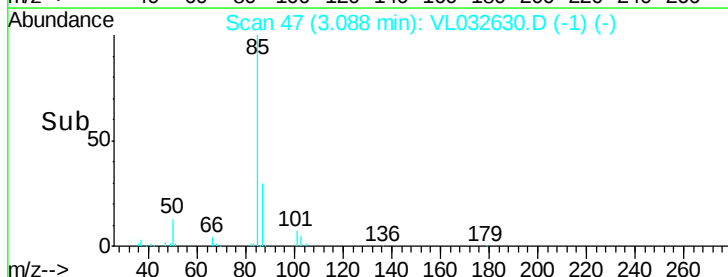
87 30.2 26.2 39.2



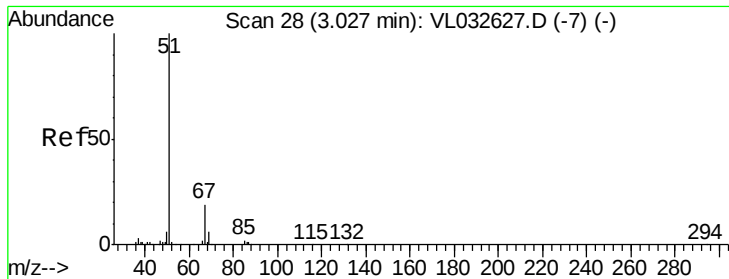
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

Time-->



Time-->



#3

Chlorodifluoromethane

Concen: 0.53 ppbv

RT: 3.02 min Scan# 27

Delta R.T. -0.00 min

Lab File: VL032630.D

Acq: 17 Oct 2018 4:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 51 Resp: 53294

Ion Ratio Lower Upper

51 100

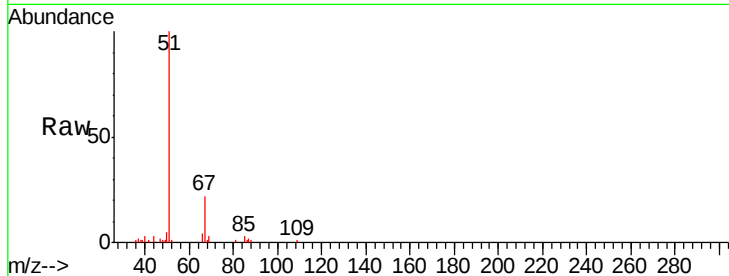
67 20.4 15.2 22.8

Manual Integrations

APPROVED

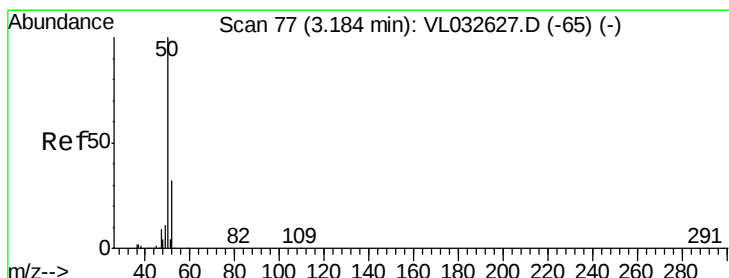
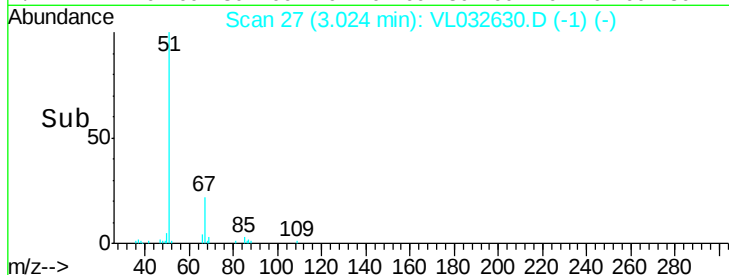
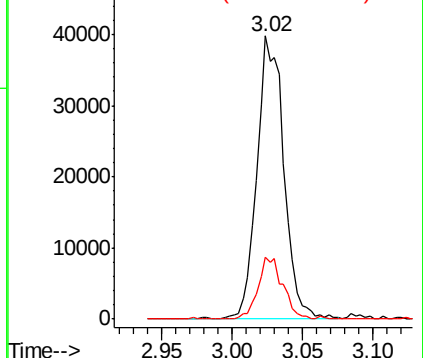
MMDadoda

10/19/2018 4:36:26 PM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.53 ppbv m

RT: 3.18 min Scan# 75

Delta R.T. -0.01 min

Lab File: VL032630.D

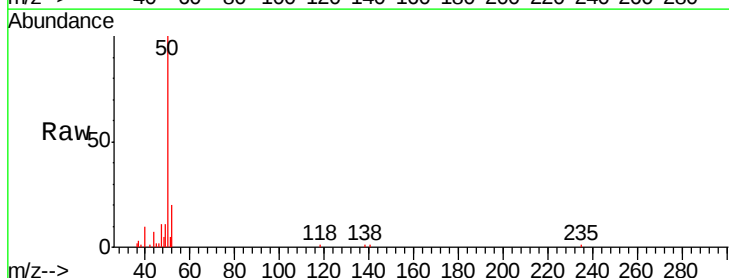
Acq: 17 Oct 2018 4:41

Tgt Ion: 50 Resp: 29447

Ion Ratio Lower Upper

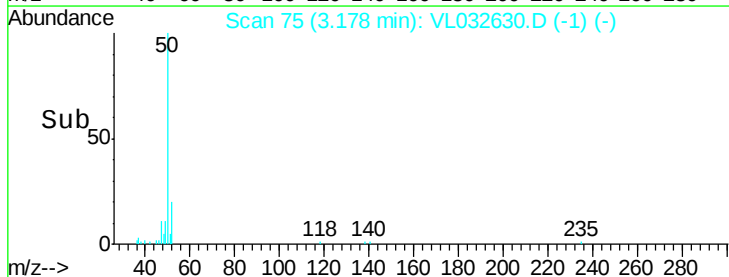
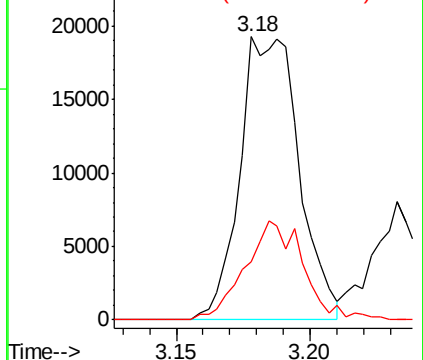
50 100

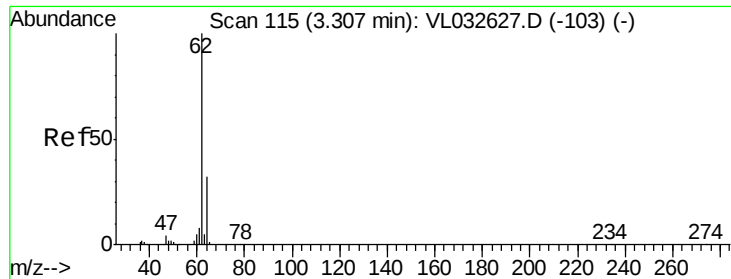
52 20.5 25.9 38.9#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.51 ppbv

RT: 3.30 min Scan# 114

Delta R.T. -0.00 min

Lab File: VL032630.D

Acq: 17 Oct 2018 4:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 62 Resp: 28216

Ion Ratio Lower Upper

62 100

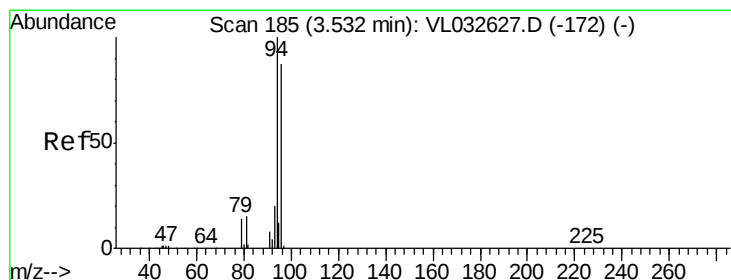
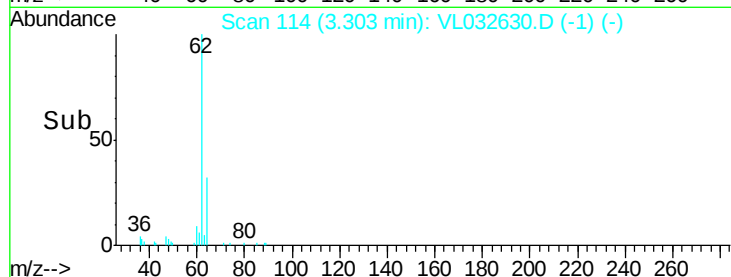
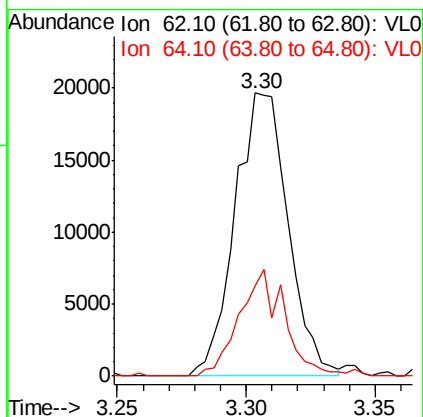
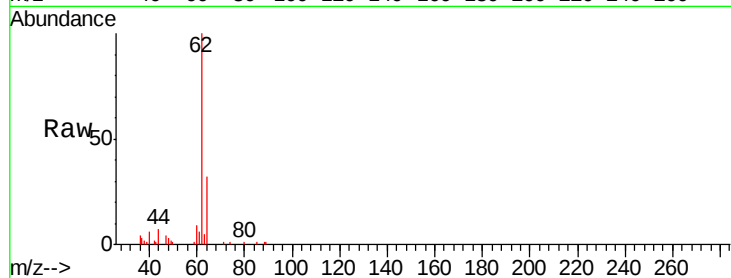
64 31.7 25.5 38.3

Manual Integrations

APPROVED

MMDadoda

10/19/2018 4:36:26 PM



#6

Bromomethane

Concen: 0.54 ppbv

RT: 3.53 min Scan# 185

Delta R.T. 0.00 min

Lab File: VL032630.D

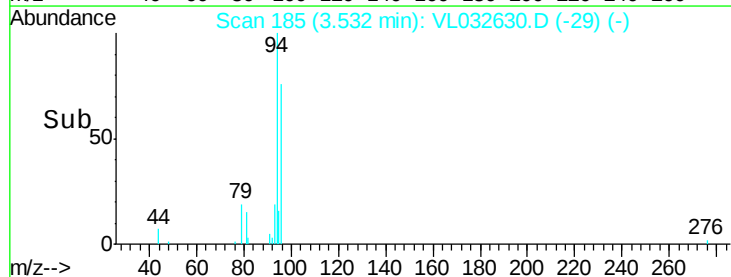
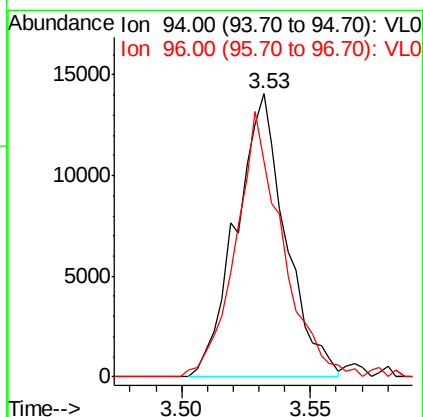
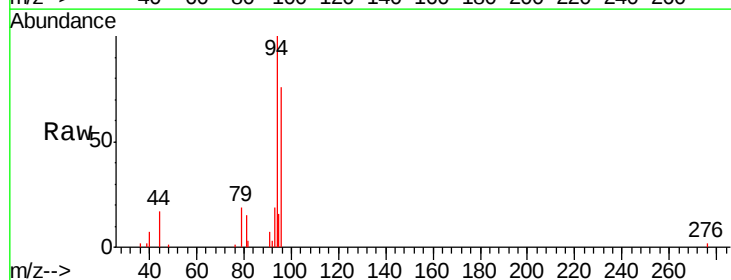
Acq: 17 Oct 2018 4:41

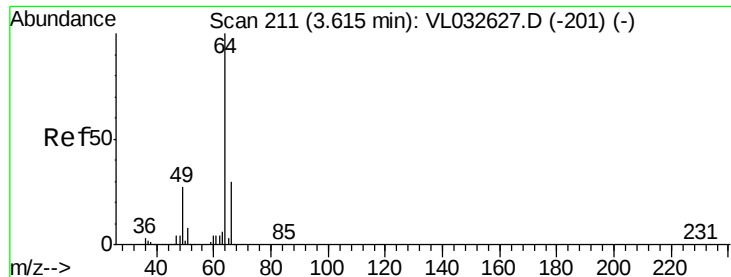
Tgt Ion: 94 Resp: 18903

Ion Ratio Lower Upper

94 100

96 73.9 69.8 104.8





#7

Chloroethane

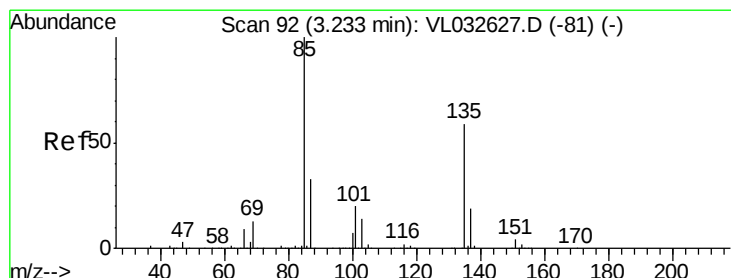
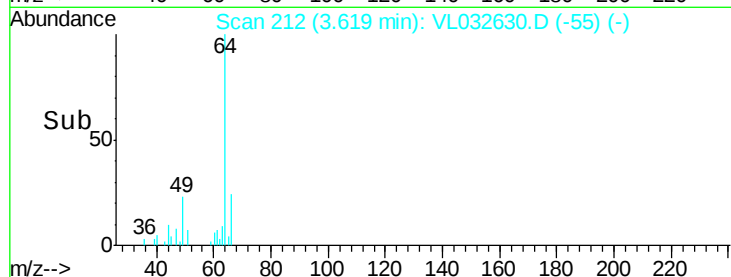
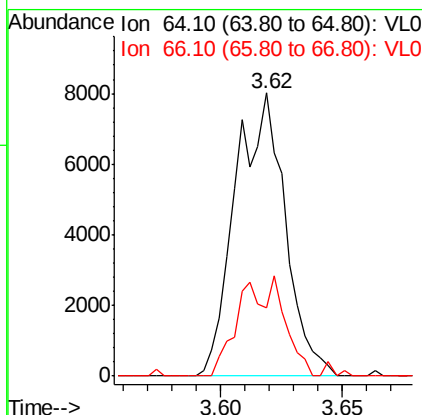
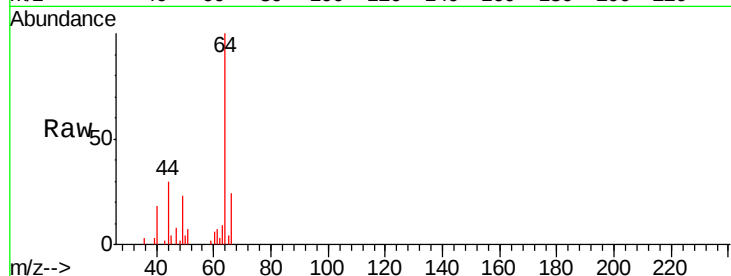
Concen: 0.52 ppbv m
RT: 3.62 min Scan# 212
Delta R.T. 0.00 min
Lab File: VL032630.D
Acq: 17 Oct 2018 4:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 64 Resp: 11352
Ion Ratio Lower Upper
64 100
66 24.1 24.4 36.6#

Manual Integrations
APPROVED

MMDadoda
10/19/2018 4:36:26 PM

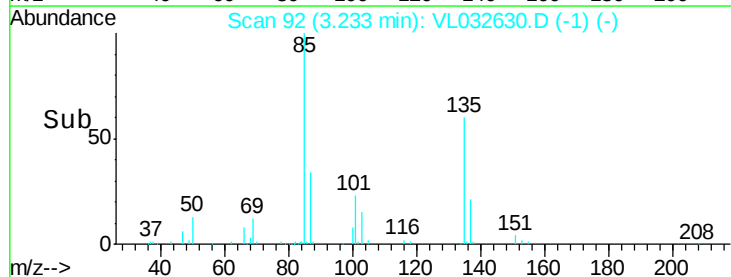
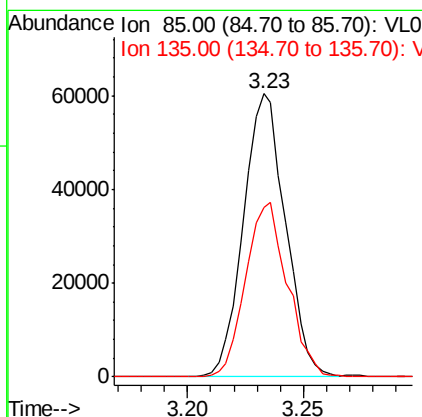
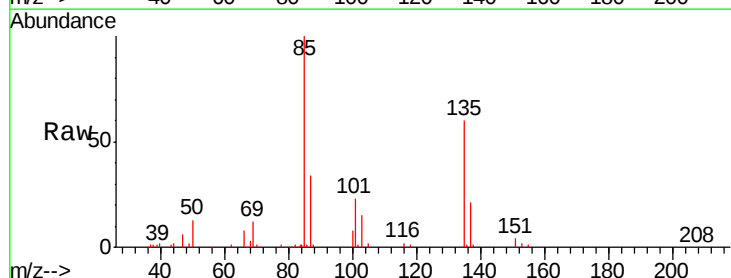


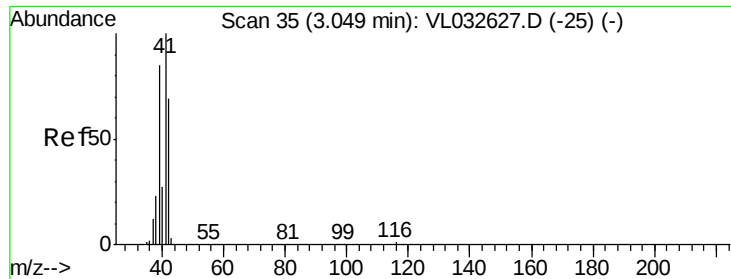
#8

Dichlorotetrafluoroethane

Concen: 0.56 ppbv
RT: 3.23 min Scan# 92
Delta R.T. 0.00 min
Lab File: VL032630.D
Acq: 17 Oct 2018 4:41

Tgt Ion: 85 Resp: 76244
Ion Ratio Lower Upper
85 100
135 61.2 49.0 73.4





#9

Propene

Concen: 0.47 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.00 min

Lab File: VL032630.D

Acq: 17 Oct 2018 4:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 41 Resp: 17766

Ion Ratio Lower Upper

41 100

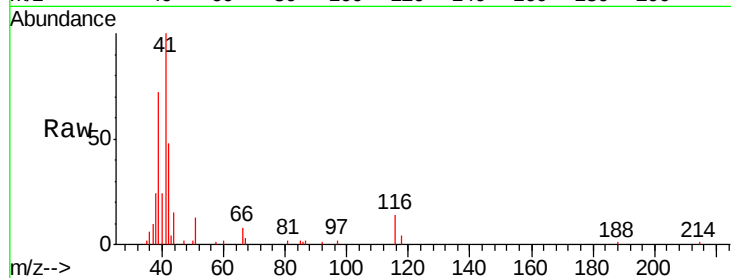
42 71.1 55.4 83.0

Manual Integrations

APPROVED

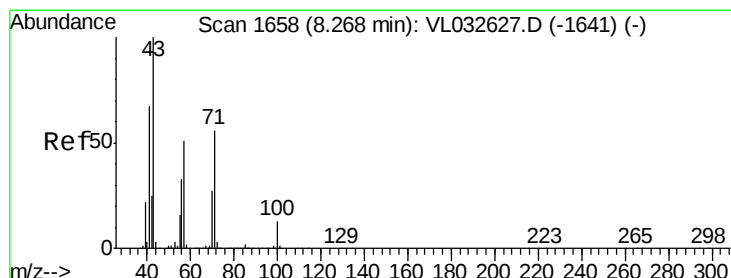
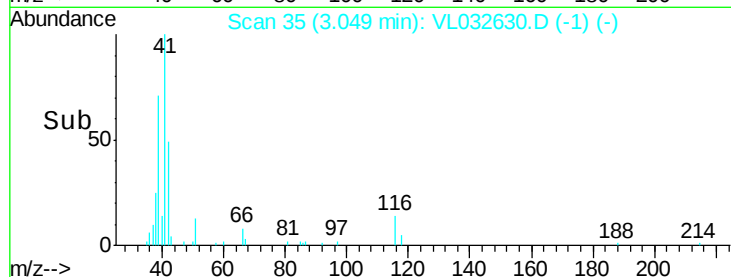
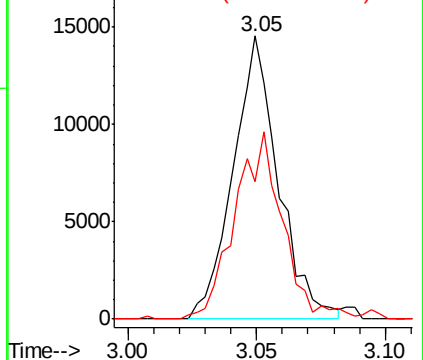
MMDadoda

10/19/2018 4:36:26 PM



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.39 ppbv

RT: 8.26 min Scan# 1657

Delta R.T. -0.00 min

Lab File: VL032630.D

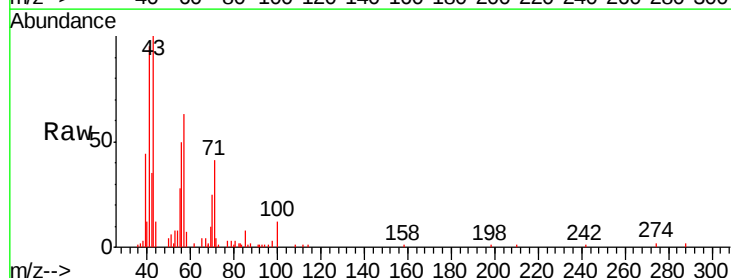
Acq: 17 Oct 2018 4:41

Tgt Ion: 43 Resp: 53920

Ion Ratio Lower Upper

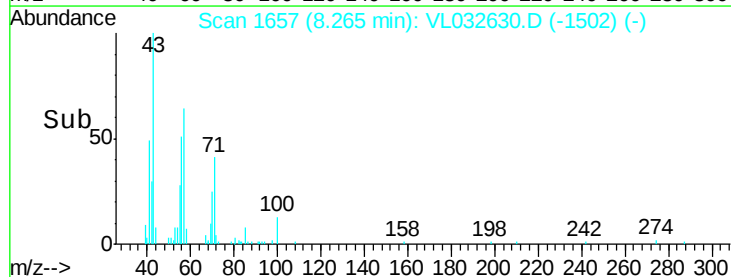
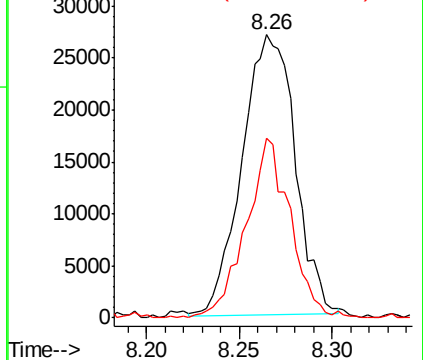
43 100

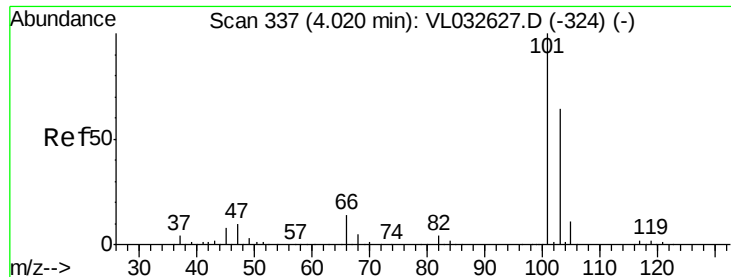
57 53.1 41.5 62.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





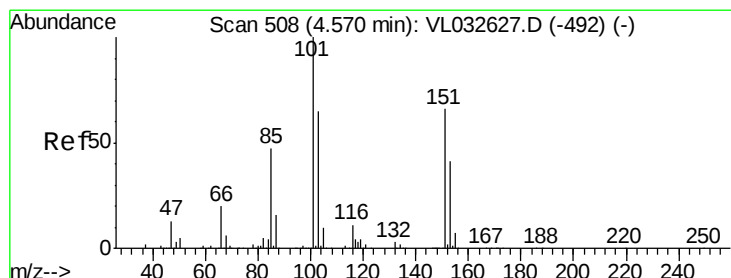
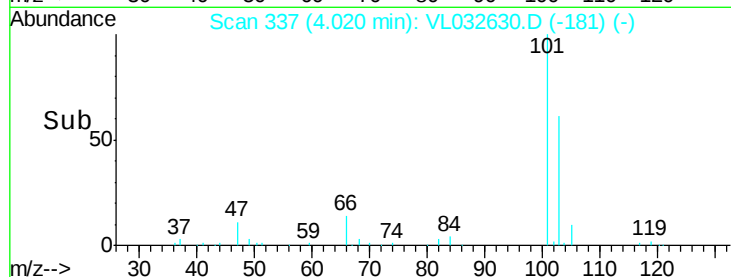
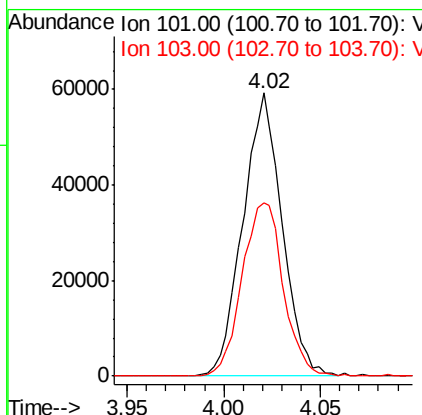
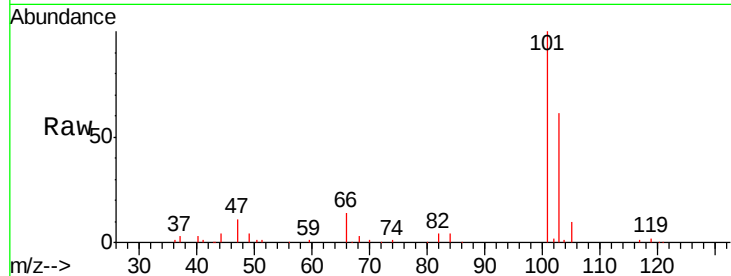
#11
 Trichlorofluoromethane
 Concen: 0.56 ppbv
 RT: 4.02 min Scan# 337
 Delta R.T. 0.00 min
 Lab File: VL032630.D
 Acq: 17 Oct 2018 4:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion:101 Resp: 83663
 Ion Ratio Lower Upper
 101 100
 103 61.1 51.4 77.2

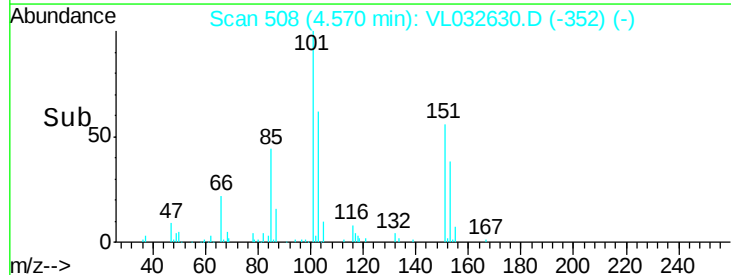
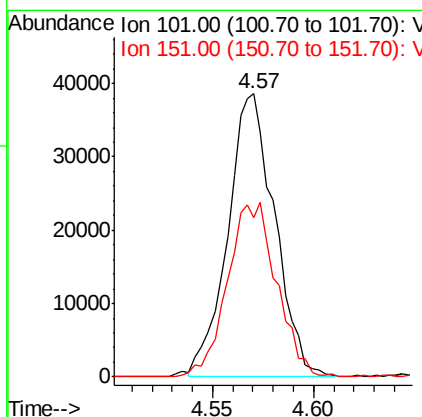
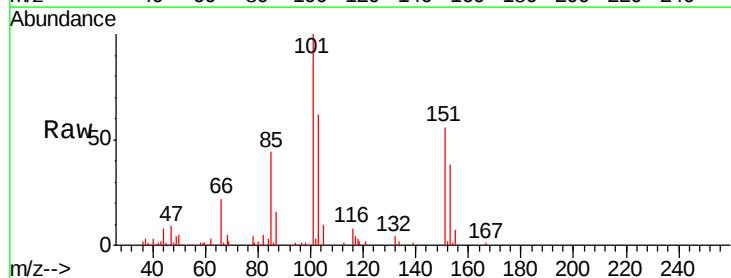
Manual Integrations
 APPROVED

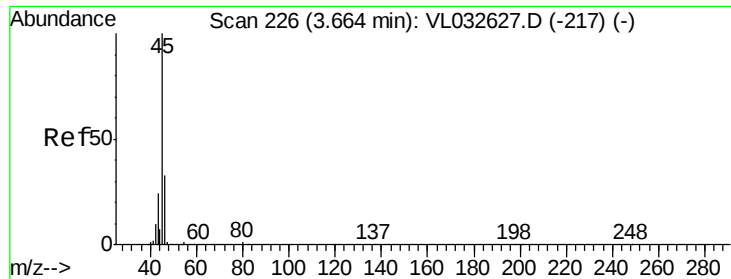
MMDadoda
 10/19/2018 4:36:26 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.57 ppbv
 RT: 4.57 min Scan# 508
 Delta R.T. 0.00 min
 Lab File: VL032630.D
 Acq: 17 Oct 2018 4:41

Tgt Ion:101 Resp: 62916
 Ion Ratio Lower Upper
 101 100
 151 64.3 52.3 78.5





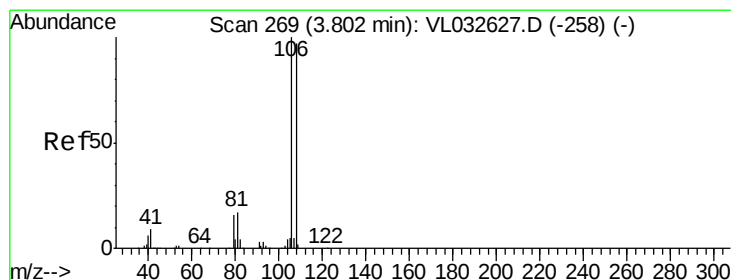
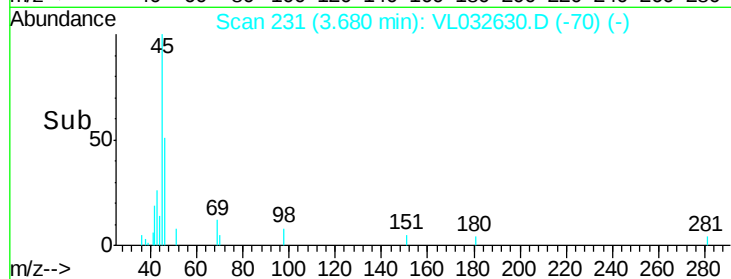
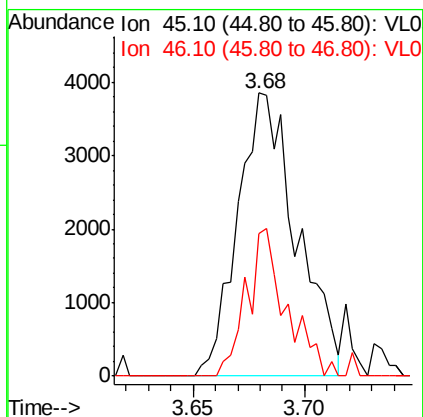
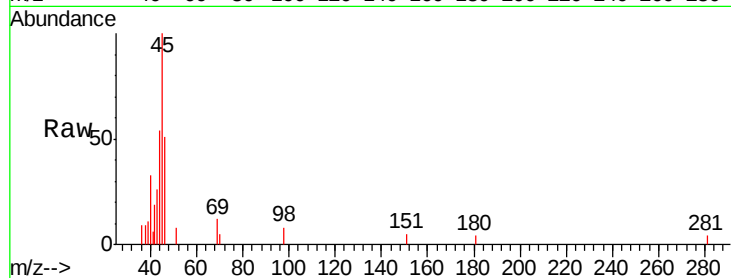
#13
Ethanol
Concen: 0.67 ppbv m
RT: 3.68 min Scan# 231
Delta R.T. 0.02 min
Lab File: VL032630.D
Acq: 17 Oct 2018 4:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 45 Resp: 7035
Ion Ratio Lower Upper
45 100
46 35.9 15.4 61.8

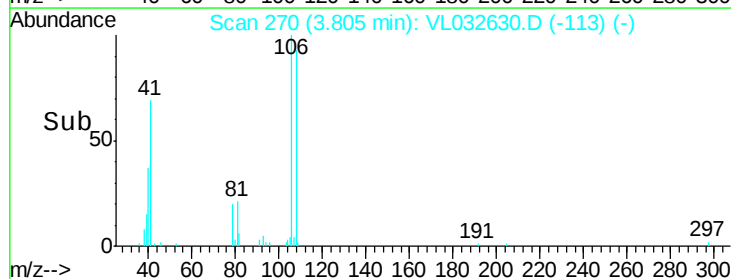
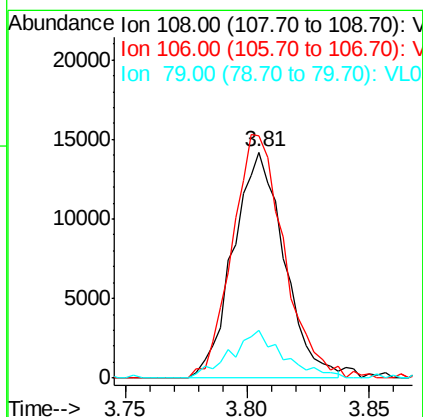
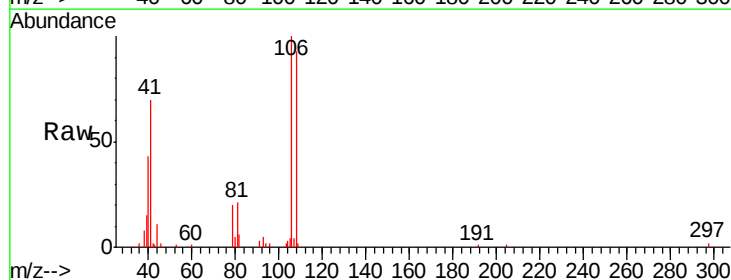
Manual Integrations
APPROVED

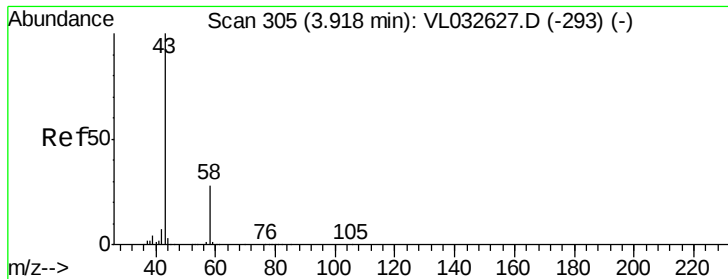
MMDadoda
10/19/2018 4:36:26 PM



#14
Bromoethene
Concen: 0.50 ppbv
RT: 3.81 min Scan# 270
Delta R.T. 0.00 min
Lab File: VL032630.D
Acq: 17 Oct 2018 4:41

Tgt Ion: 108 Resp: 20596
Ion Ratio Lower Upper
108 100
106 110.2 85.0 127.4
79 21.5 13.7 20.5#





#15

Acetone

Concen: 0.57 ppbv

RT: 3.93 min Scan# 310

Delta R.T. 0.02 min

Lab File: VL032630.D

Acq: 17 Oct 2018 4:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 43 Resp: 60077

Ion Ratio Lower Upper

43 100

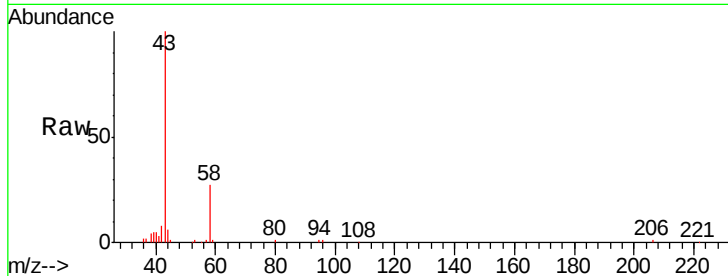
58 31.0 22.1 33.1

Manual Integrations

APPROVED

MMDadoda

10/19/2018 4:36:26 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.93

50000

40000

30000

20000

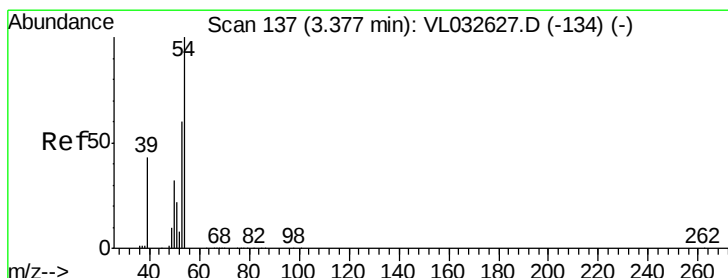
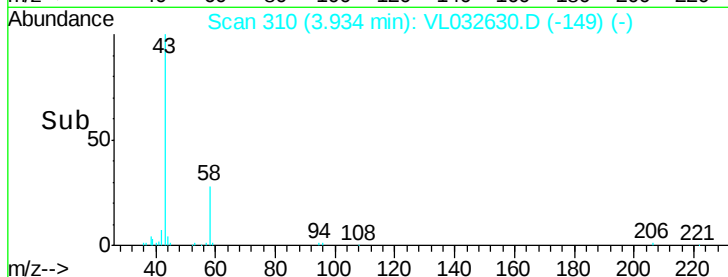
10000

0

Time-->

3.90

3.95



#16

1,3-Butadiene

Concen: 0.49 ppbv m

RT: 3.38 min Scan# 138

Delta R.T. 0.00 min

Lab File: VL032630.D

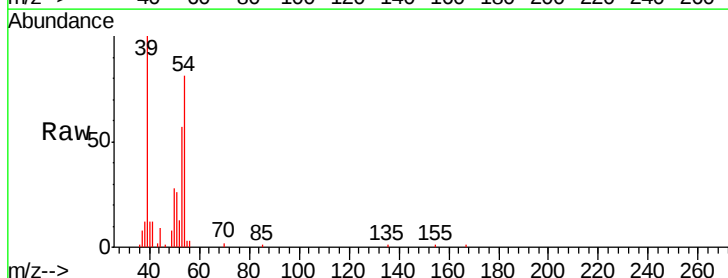
Acq: 17 Oct 2018 4:41

Tgt Ion: 39 Resp: 20691

Ion Ratio Lower Upper

39 100

54 94.6 90.4 135.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

20000

15000

10000

5000

0

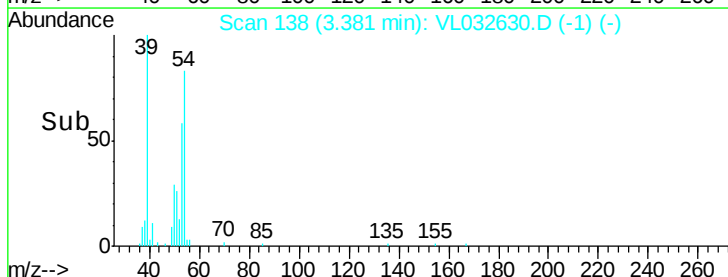
Time-->

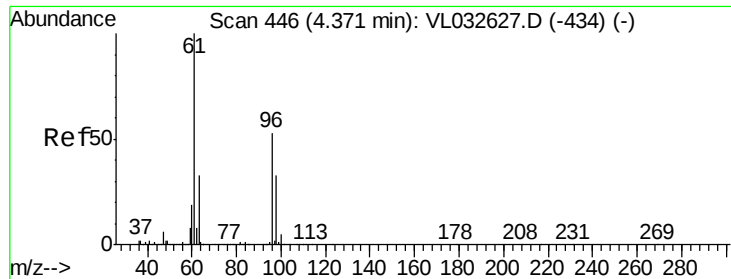
3.36

3.38

3.40

3.42





#17

tert-Butyl alcohol

Concen: 0.42 ppbv m

RT: 4.42 min Scan# 460

Delta R.T. 0.05 min

Lab File: VL032630.D

Acq: 17 Oct 2018 4:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 59 Resp: 3653

Ion Ratio Lower Upper

59 100

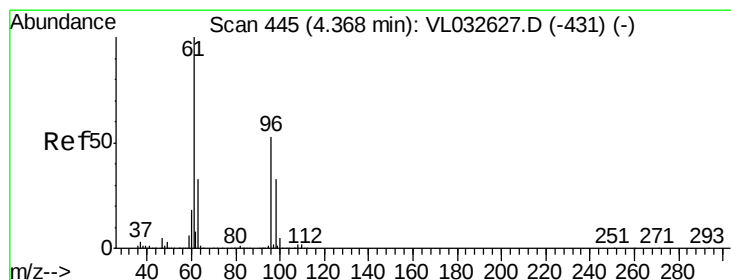
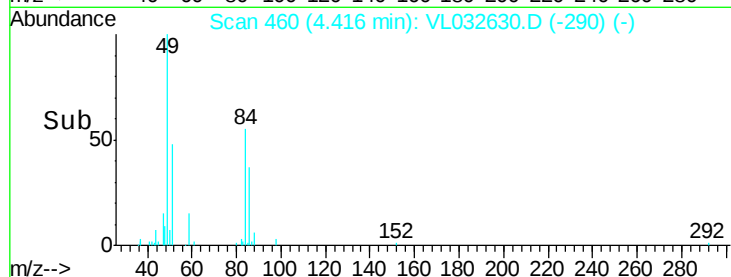
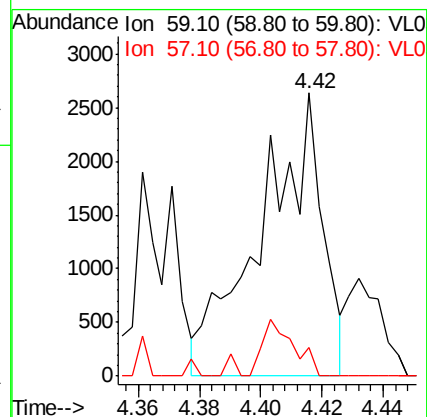
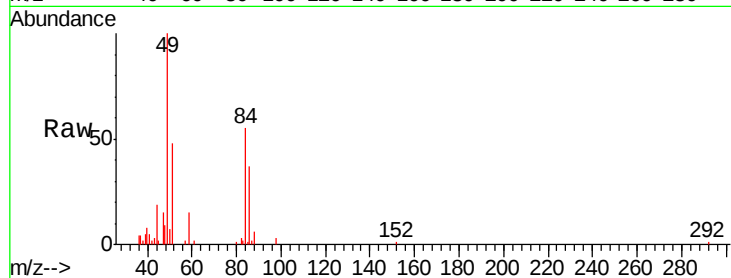
57 0.0 0.0 0.0

Manual Integrations

APPROVED

MMDadoda

10/19/2018 4:36:26 PM



#18

1,1-Dichloroethene

Concen: 0.50 ppbv m

RT: 4.37 min Scan# 445

Delta R.T. 0.00 min

Lab File: VL032630.D

Acq: 17 Oct 2018 4:41

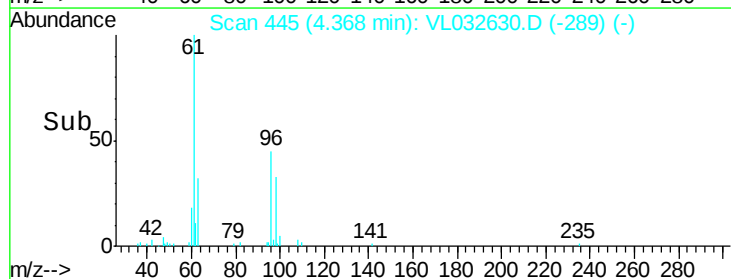
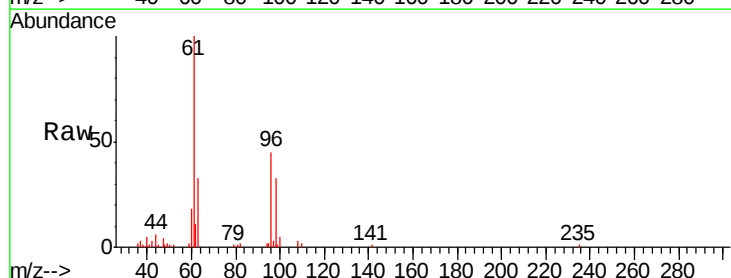
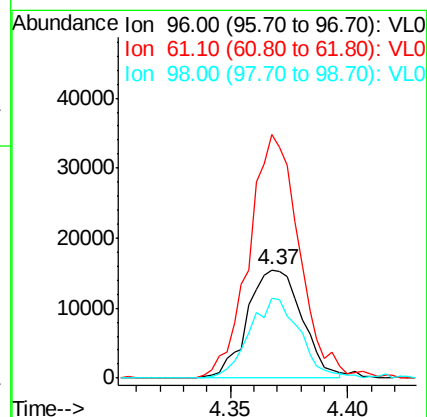
Tgt Ion: 96 Resp: 24711

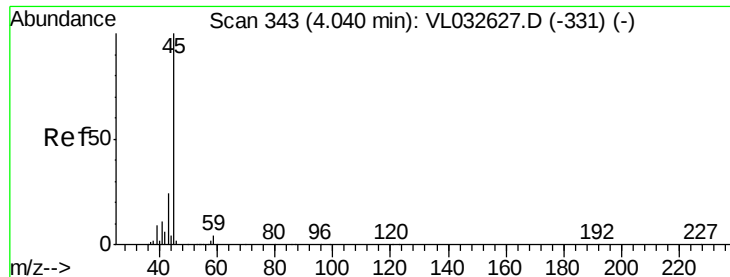
Ion Ratio Lower Upper

96 100

61 224.6 151.6 227.4

98 73.3 50.6 75.8





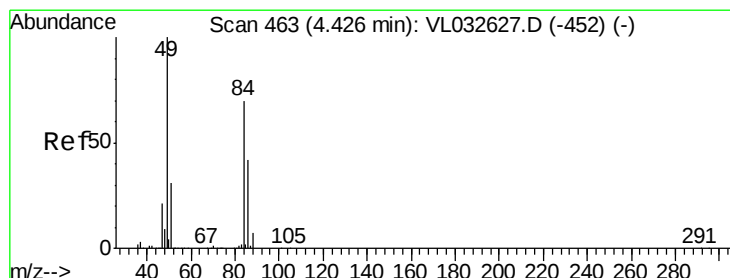
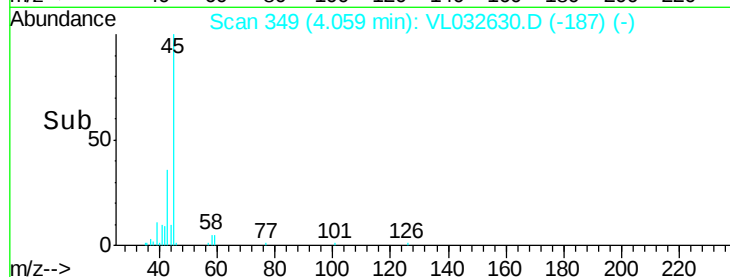
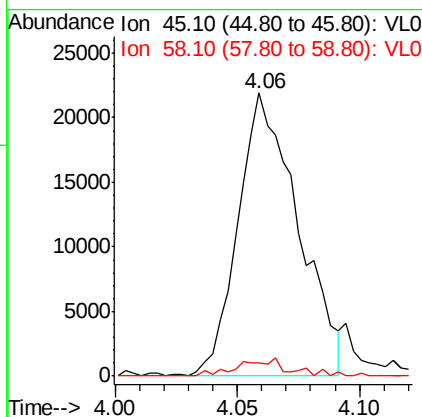
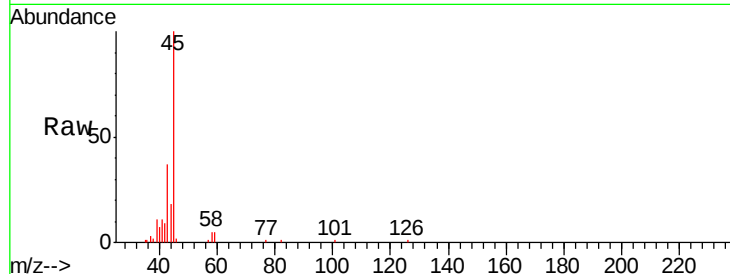
#19
Isopropyl Alcohol
Concen: 0.54 ppbv
RT: 4.06 min Scan# 349
Delta R.T. 0.02 min
Lab File: VL032630.D
Acq: 17 Oct 2018 4:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 45 Resp: 37308
Ion Ratio Lower Upper
45 100
58 5.2 2.0 3.0#

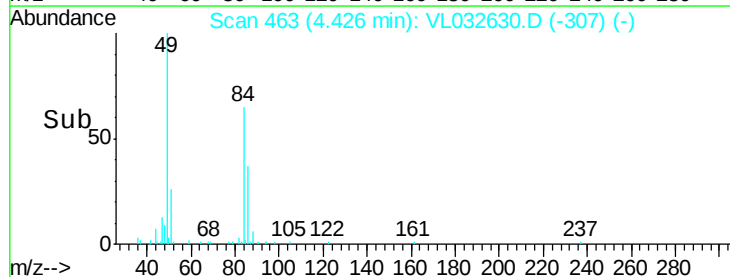
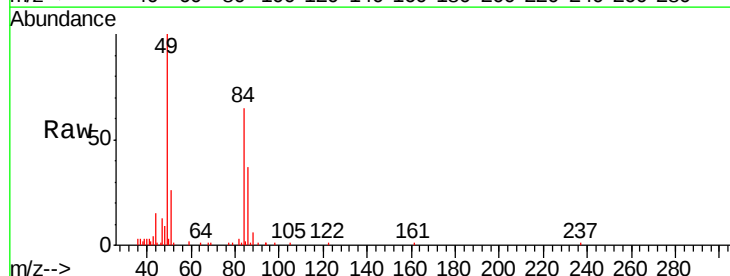
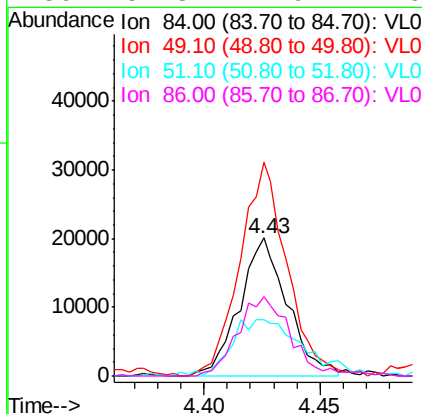
Manual Integrations
APPROVED

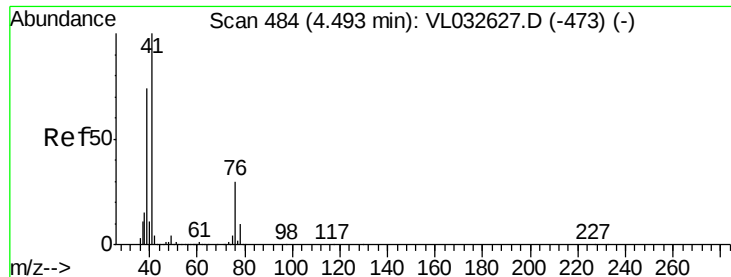
MMDadoda
10/19/2018 4:36:26 PM



#20
Methylene Chloride
Concen: 0.59 ppbv
RT: 4.43 min Scan# 463
Delta R.T. 0.00 min
Lab File: VL032630.D
Acq: 17 Oct 2018 4:41

Tgt Ion: 84 Resp: 28793
Ion Ratio Lower Upper
84 100
49 154.7 113.5 170.3
51 40.0 34.8 52.2
86 57.3 47.9 71.9





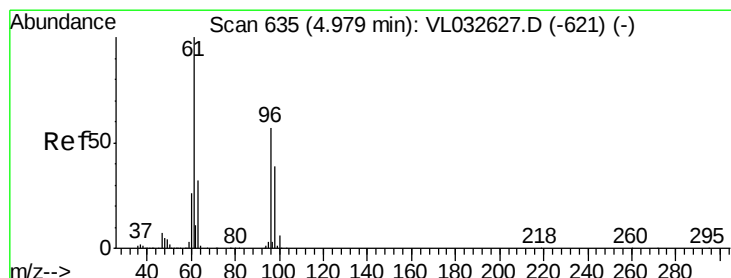
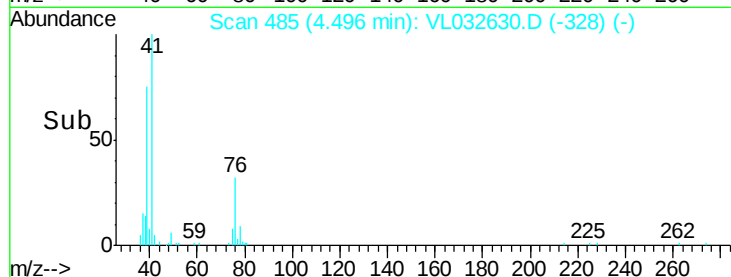
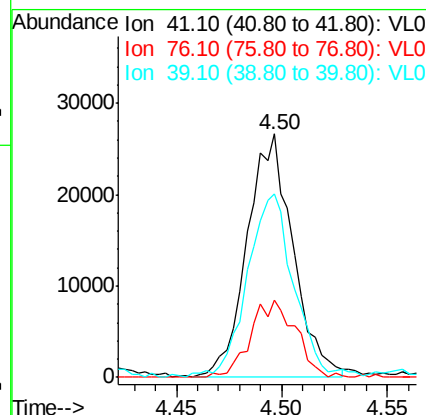
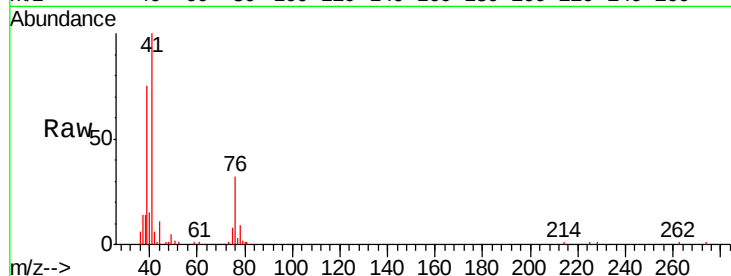
#21
 Allyl Chloride
 Concen: 0.50 ppbv
 RT: 4.50 min Scan# 485
 Delta R.T. 0.00 min
 Lab File: VL032630.D
 Acq: 17 Oct 2018 4:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
41	100		
76	31.2	24.3	36.5
39	78.9	60.3	90.5

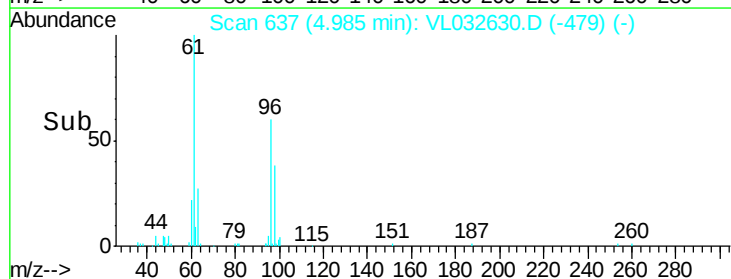
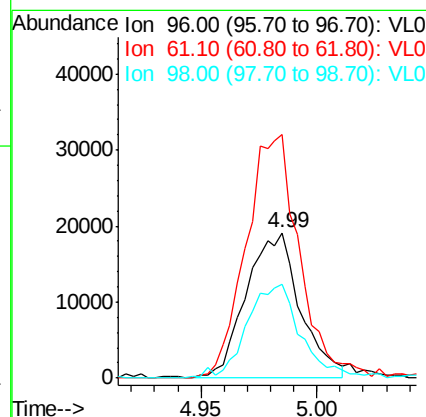
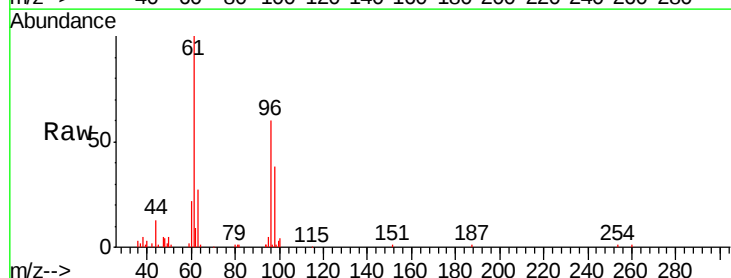
Manual Integrations
 APPROVED

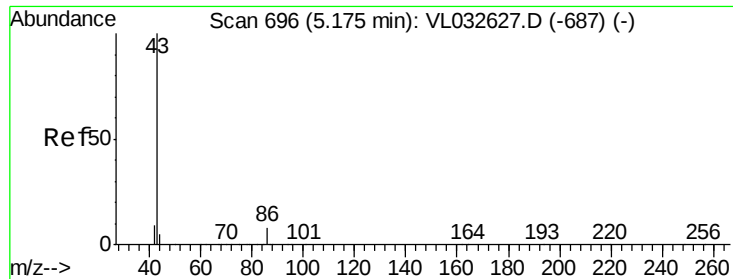
MMDadoda
 10/19/2018 4:36:26 PM



#22
 trans-1,2-Dichloroethene
 Concen: 0.54 ppbv
 RT: 4.99 min Scan# 637
 Delta R.T. 0.01 min
 Lab File: VL032630.D
 Acq: 17 Oct 2018 4:41

Tgt Ion	Ratio	Lower	Upper
96	100		
61	167.7	140.4	210.6
98	65.1	55.0	82.6





#23

Vinyl Acetate

Concen: 0.40 ppbv

RT: 5.18 min Scan# 697

Delta R.T. 0.00 min

Lab File: VL032630.D

Acq: 17 Oct 2018 4:41

Instrument :

MSVOA_L

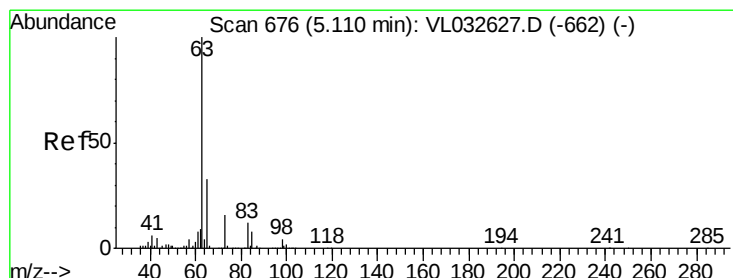
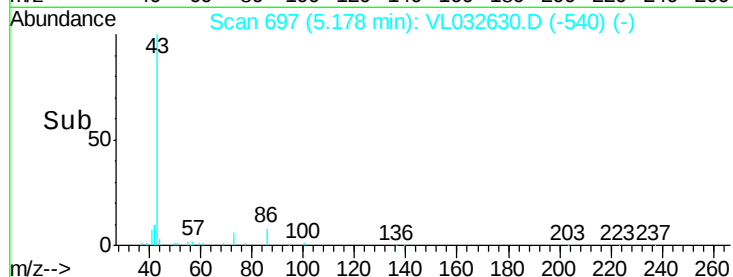
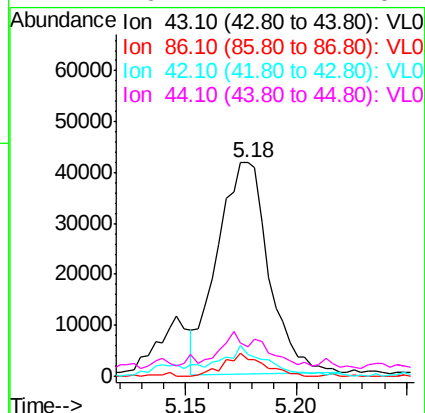
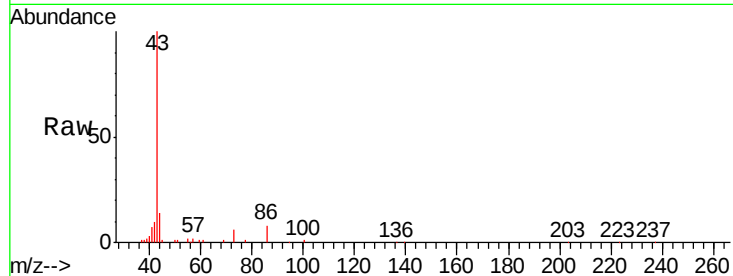
ClientSampleId :

VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
43	100		
86	8.2	6.1	9.1
42	9.1	7.4	11.2
44	10.1	4.2	6.2#

Manual Integrations
APPROVED

MMDadoda
10/19/2018 4:36:26 PM



#24

1,1-Dichloroethane

Concen: 0.54 ppbv

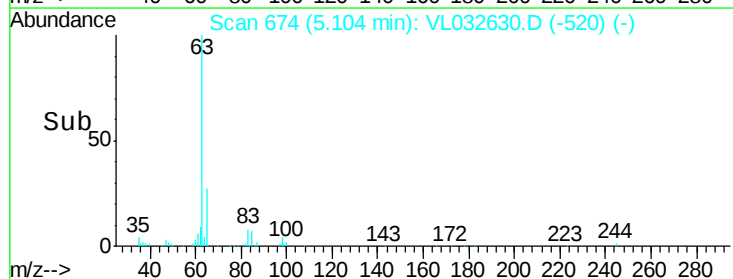
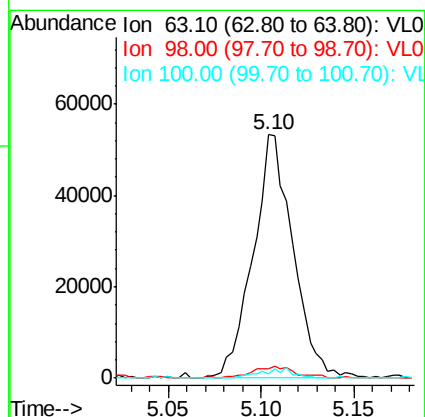
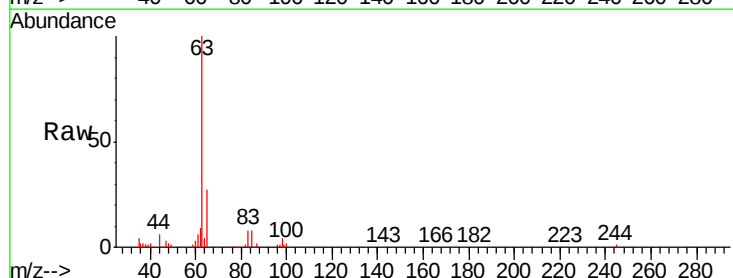
RT: 5.10 min Scan# 674

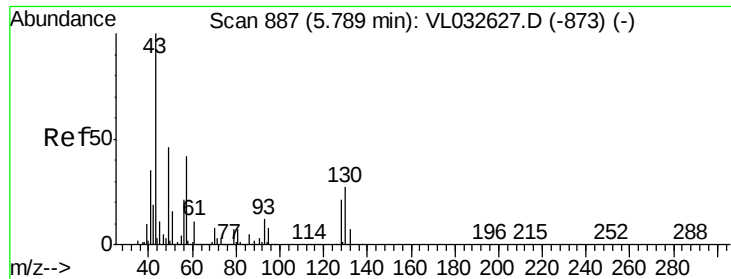
Delta R.T. -0.01 min

Lab File: VL032630.D

Acq: 17 Oct 2018 4:41

Tgt Ion	Ratio	Lower	Upper
63	100		
98	4.0	2.1	6.3
100	1.9	1.2	3.6





#25

Ethyl Acetate

Concen: 0.51 ppbv

RT: 5.80 min Scan# 889

Delta R.T. 0.01 min

Lab File: VL032630.D

Acq: 17 Oct 2018 4:41

Instrument :

MSVOA_L

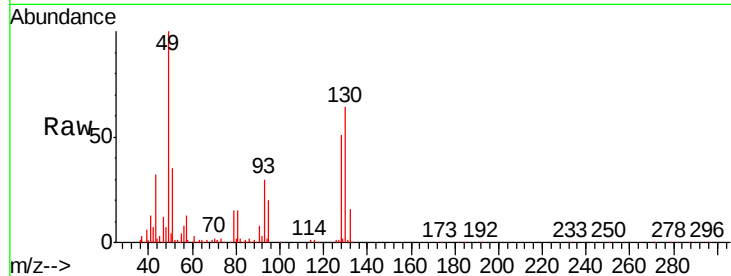
ClientSampleId :

VSTDIC0.5

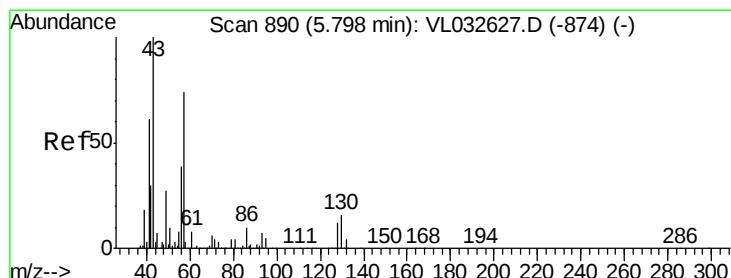
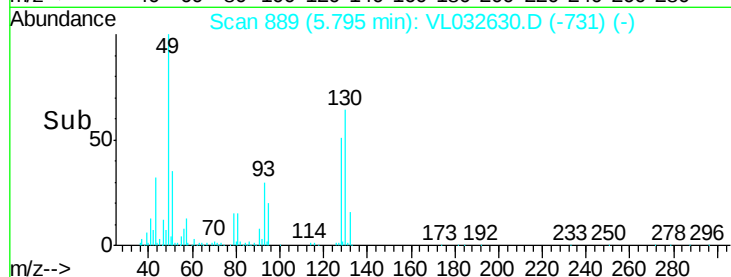
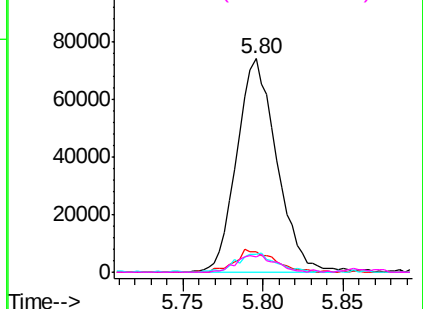
Tgt Ion	Ratio	Lower	Upper
43	100		
45	10.7	8.0	12.0
61	8.9	8.0	12.0
70	7.8	5.9	8.9

Manual Integrations
APPROVED

MMDadoda
10/19/2018 4:36:26 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: 0.46 ppbv

RT: 5.80 min Scan# 890

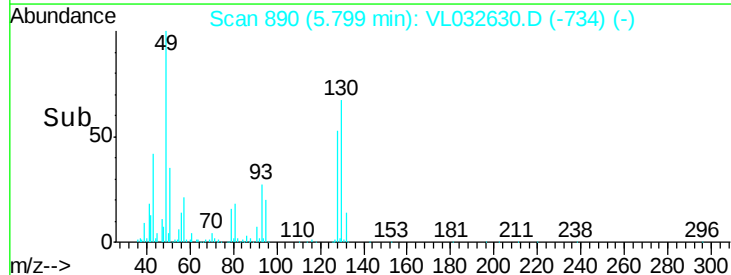
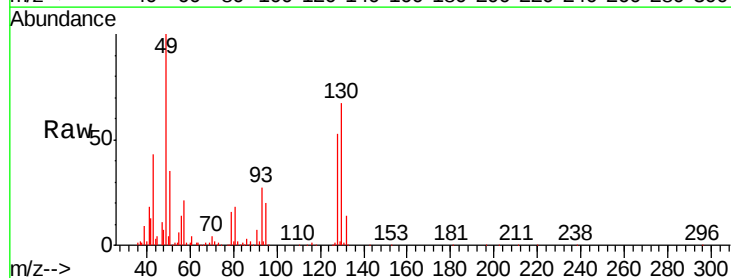
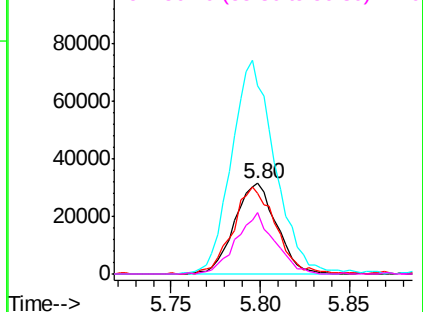
Delta R.T. 0.00 min

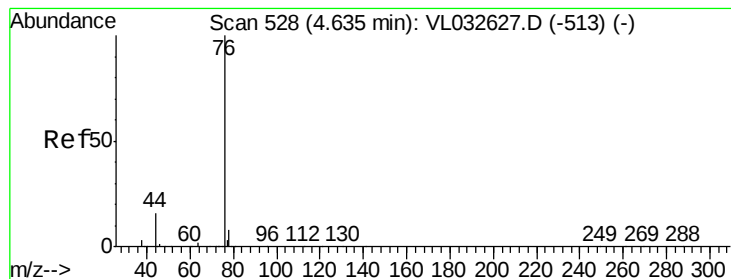
Lab File: VL032630.D

Acq: 17 Oct 2018 4:41

Tgt Ion	Ratio	Lower	Upper
57	100		
41	100.2	67.4	101.0
43	244.7	171.9	257.9
56	62.6	42.6	63.8

Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 0.55 ppbv m

RT: 4.64 min Scan# 530

Delta R.T. 0.01 min

Lab File: VL032630.D

Acq: 17 Oct 2018 4:41

Instrument :

MSVOA_L

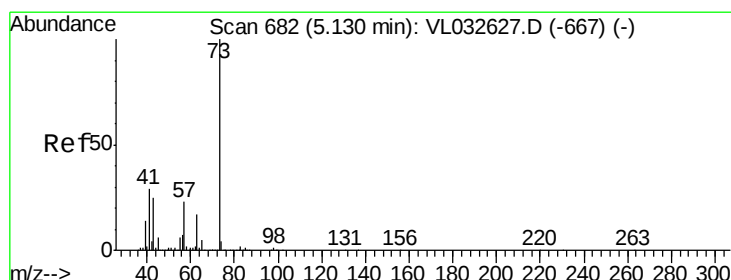
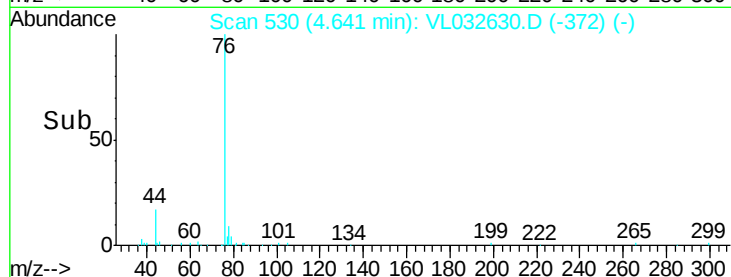
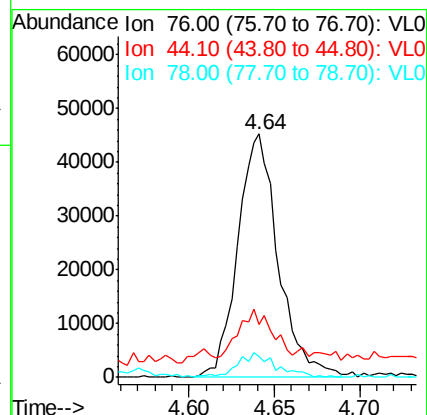
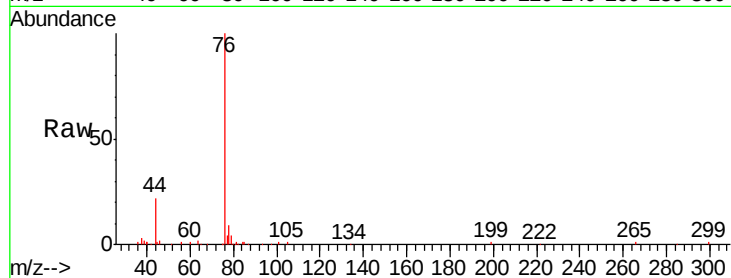
ClientSampleId :

VSTDIC0.5

Tgt Ion:	76	Resp:	74623
Ion Ratio	Lower	Upper	
76	100		
44	27.7	13.7	20.5#
78	9.7	7.4	11.2

Manual Integrations
APPROVED

MMDadoda
10/19/2018 4:36:26 PM



#28

Methyl tert-Butyl Ether

Concen: 0.45 ppbv

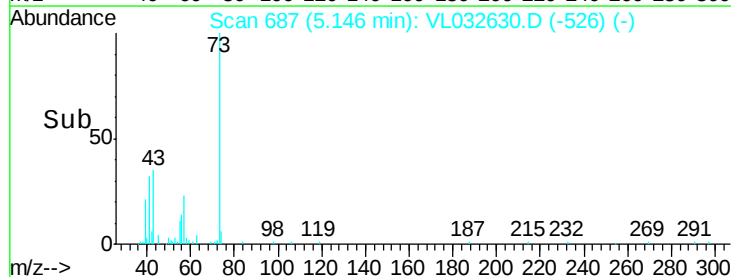
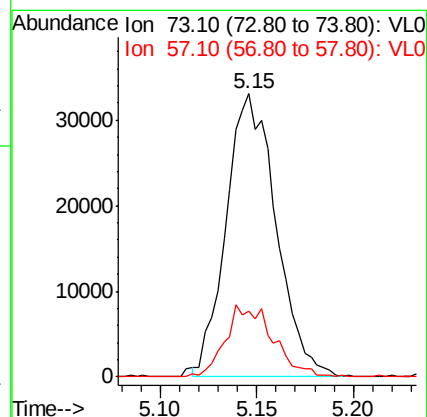
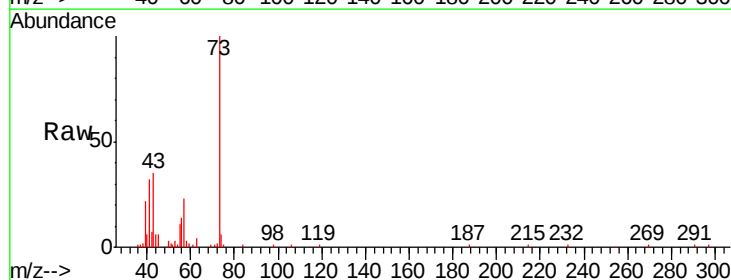
RT: 5.15 min Scan# 687

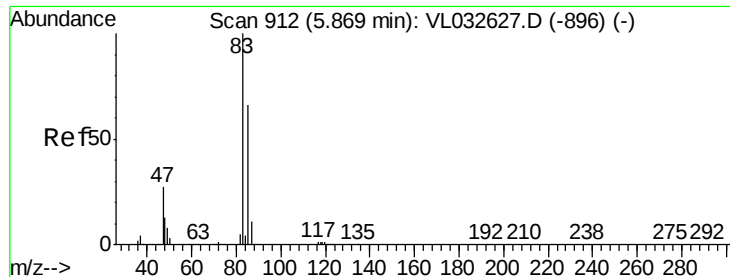
Delta R.T. 0.02 min

Lab File: VL032630.D

Acq: 17 Oct 2018 4:41

Tgt Ion:	73	Resp:	59358
Ion Ratio	Lower	Upper	
73	100		
57	23.9	18.0	27.0





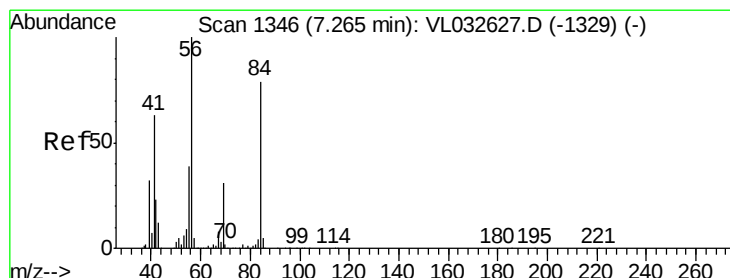
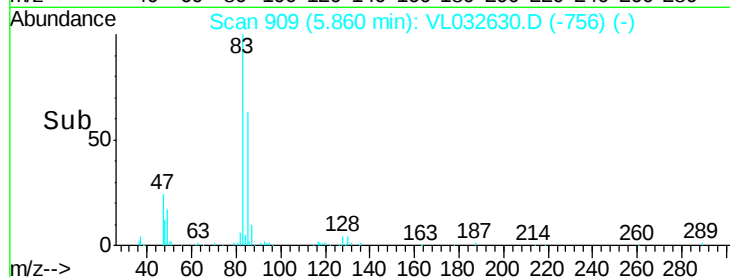
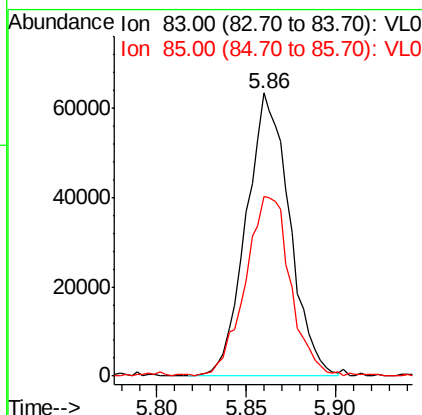
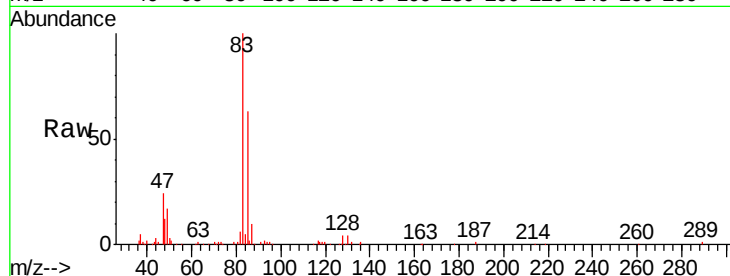
#29
Chloroform
Concen: 0.56 ppbv
RT: 5.86 min Scan# 909
Delta R.T. -0.01 min
Lab File: VL032630.D
Acq: 17 Oct 2018 4:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 83 Resp: 107528
Ion Ratio Lower Upper
83 100
85 62.8 53.0 79.6

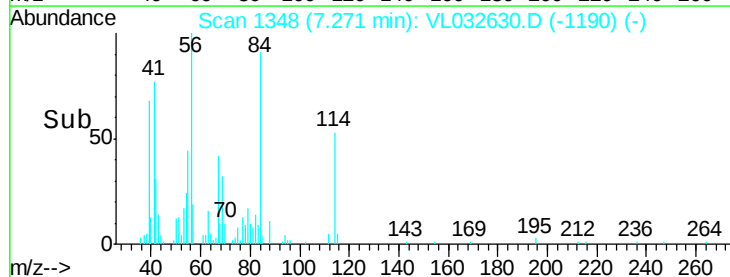
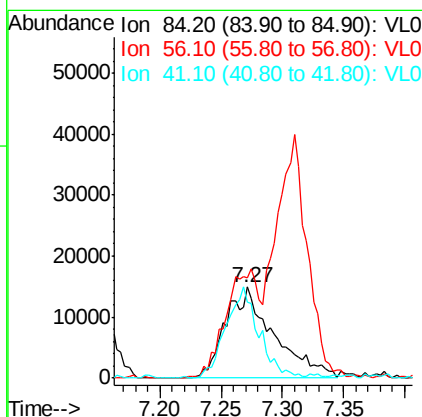
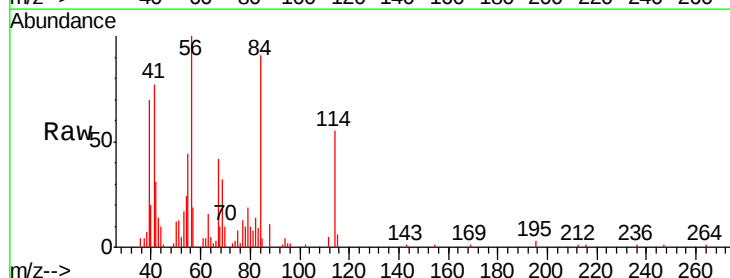
Manual Integrations
APPROVED

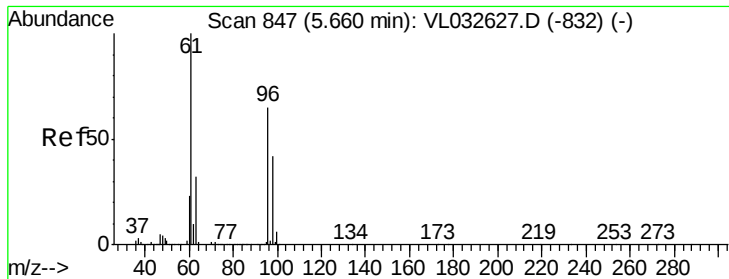
MMDadoda
10/19/2018 4:36:26 PM



#30
Cyclohexane
Concen: 0.46 ppbv m
RT: 7.27 min Scan# 1348
Delta R.T. 0.01 min
Lab File: VL032630.D
Acq: 17 Oct 2018 4:41

Tgt Ion: 84 Resp: 40775
Ion Ratio Lower Upper
84 100
56 0.0 108.3 162.5#
41 0.0 64.8 97.2#





#31

cis-1,2-Dichloroethene

Concen: 0.43 ppbv

RT: 5.66 min Scan# 847

Delta R.T. 0.00 min

Lab File: VL032630.D

Acq: 17 Oct 2018 4:41

Instrument :

MSVOA_L

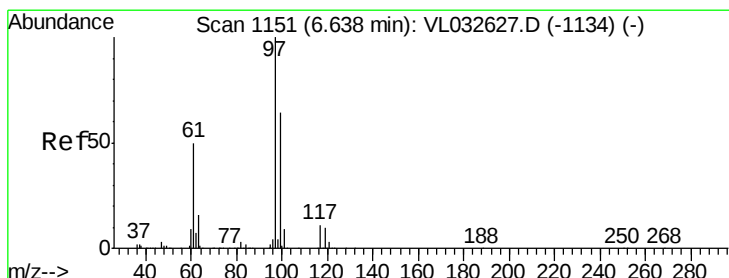
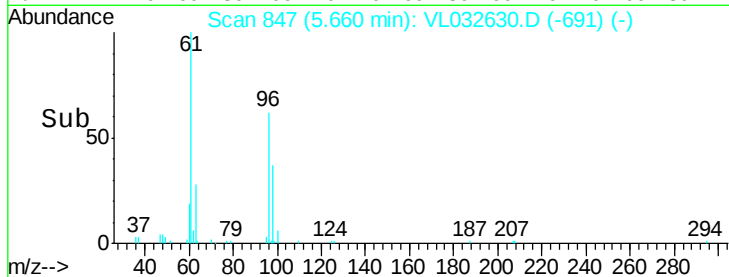
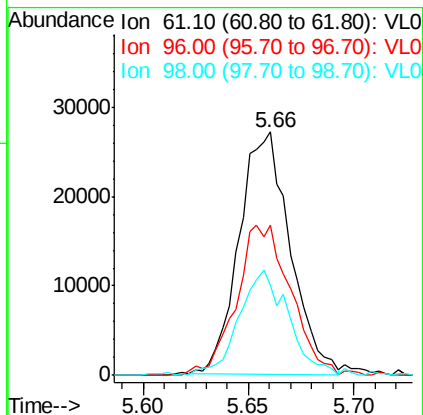
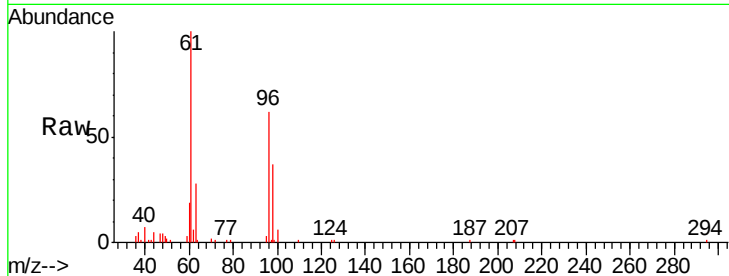
ClientSampleId :

VSTDIC0.5

Tgt Ion:	61	Resp:	45585
Ion	Ratio	Lower	Upper
61	100		
96	62.3	51.8	77.6
98	37.9	33.8	50.6

Manual Integrations
APPROVED

MMDadoda
10/19/2018 4:36:26 PM



#32

1,1,1-Trichloroethane

Concen: 0.53 ppbv

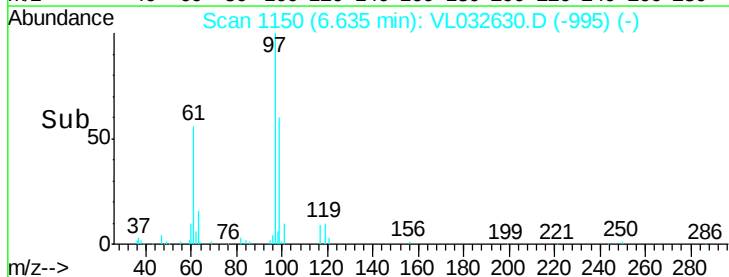
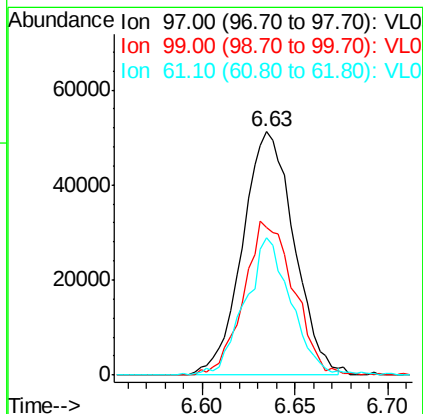
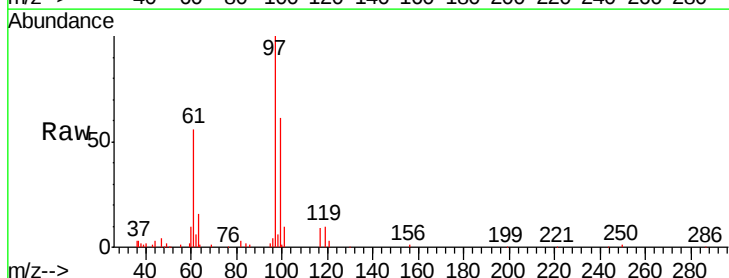
RT: 6.63 min Scan# 1150

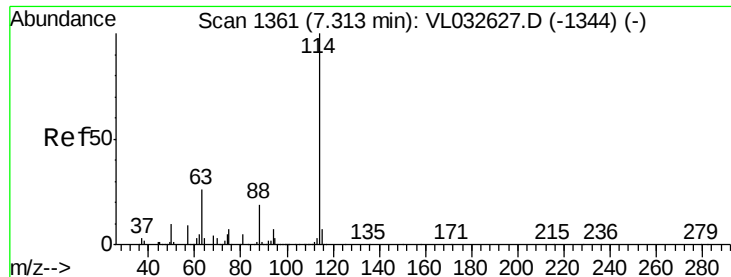
Delta R.T. -0.00 min

Lab File: VL032630.D

Acq: 17 Oct 2018 4:41

Tgt Ion:	97	Resp:	98872
Ion	Ratio	Lower	Upper
97	100		
99	61.6	52.0	78.0
61	50.7	40.7	61.1





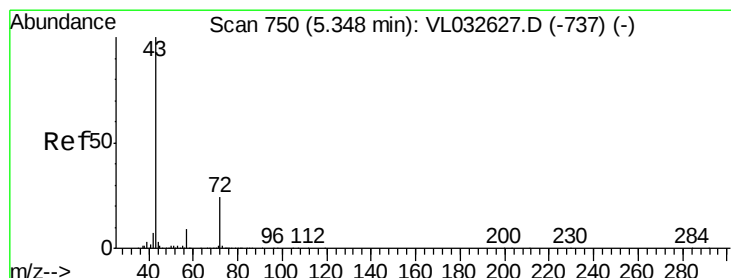
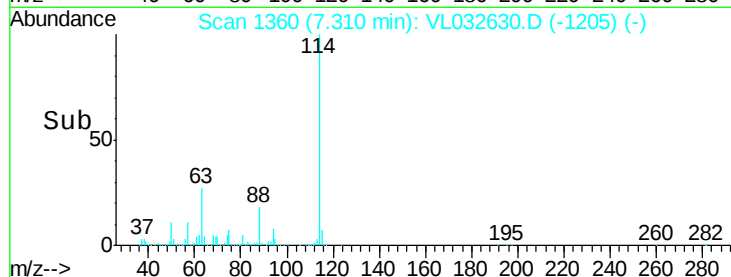
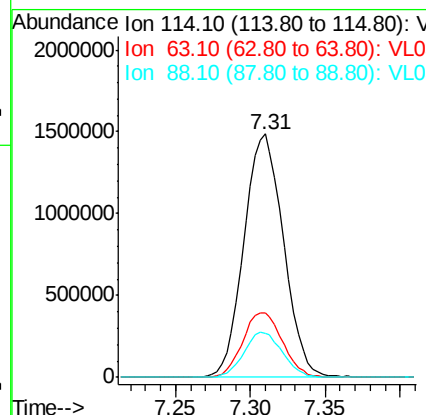
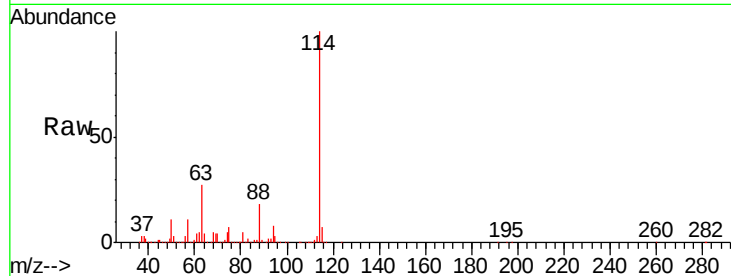
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.31 min Scan# 1360
 Delta R.T. -0.00 min
 Lab File: VL032630.D
 Acq: 17 Oct 2018 4:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.9	21.7	32.5
88	18.2	14.9	22.3

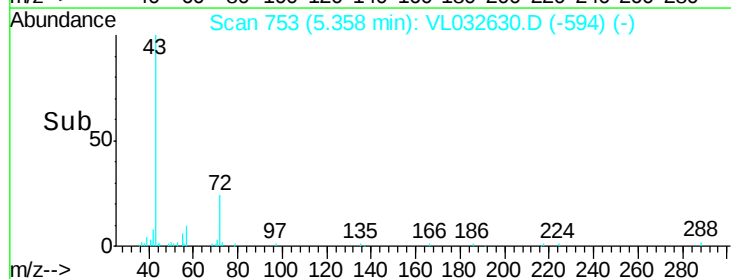
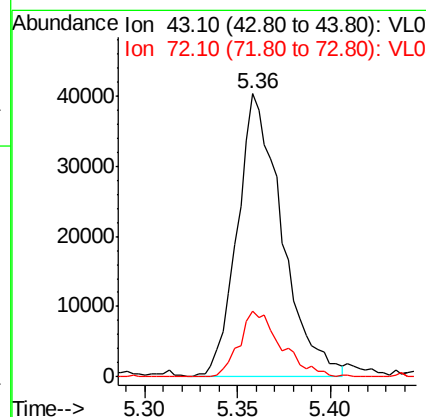
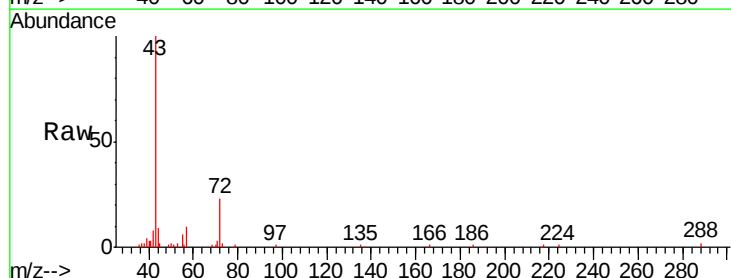
Manual Integrations
 APPROVED

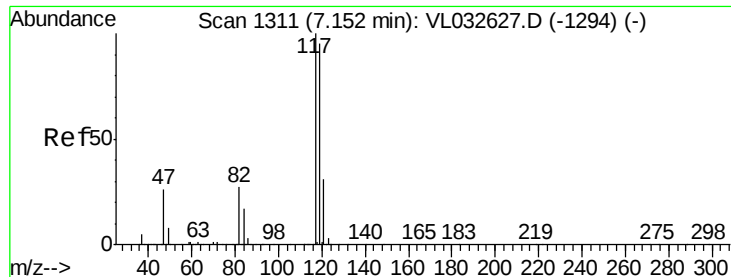
MMDadoda
 10/19/2018 4:36:26 PM



#34
 2-Butanone
 Concen: 0.48 ppbv
 RT: 5.36 min Scan# 753
 Delta R.T. 0.01 min
 Lab File: VL032630.D
 Acq: 17 Oct 2018 4:41

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.8	18.6	27.8





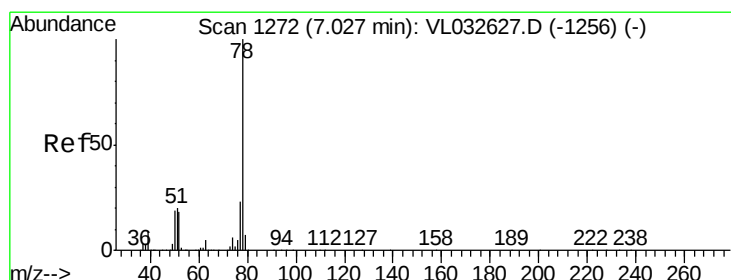
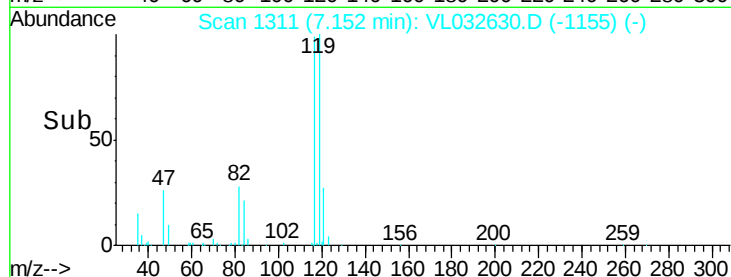
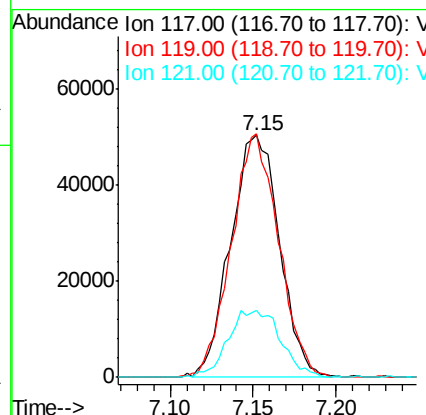
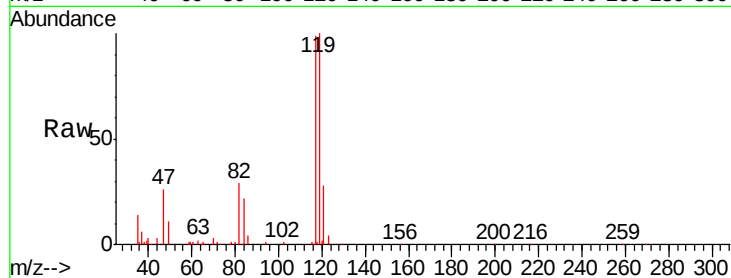
#35
Carbon Tetrachloride
Concen: 0.52 ppbv
RT: 7.15 min Scan# 1311
Delta R.T. 0.00 min
Lab File: VL032630.D
Acq: 17 Oct 2018 4:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
117	100		
119	100.7	75.7	113.5
121	27.9	24.7	37.1

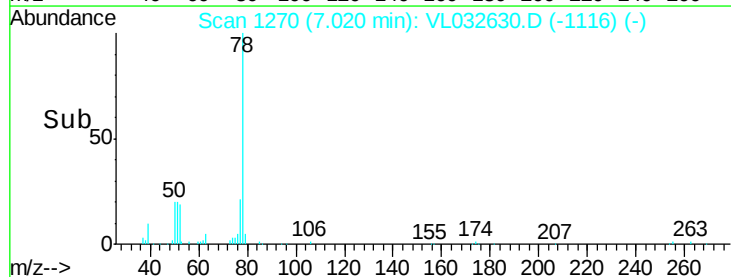
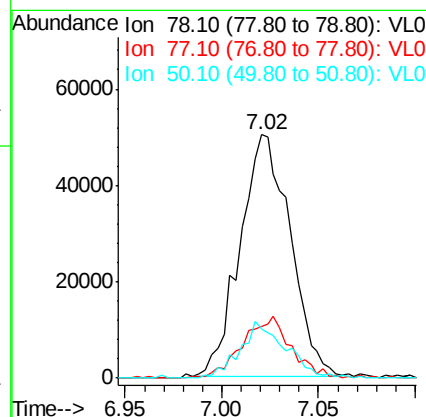
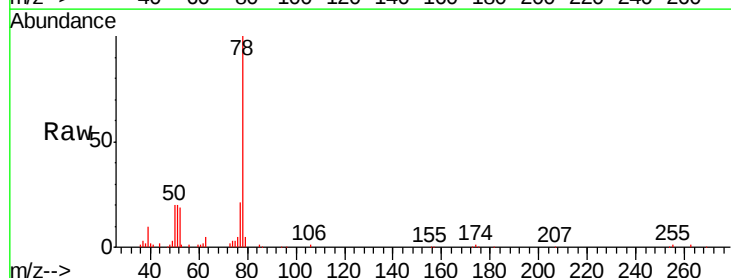
Manual Integrations
APPROVED

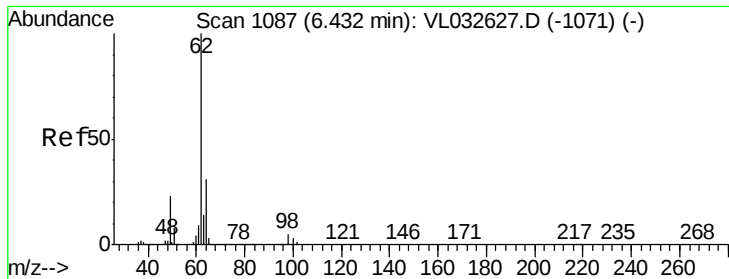
MMDadoda
10/19/2018 4:36:26 PM



#36
Benzene
Concen: 0.42 ppbv
RT: 7.02 min Scan# 1270
Delta R.T. -0.01 min
Lab File: VL032630.D
Acq: 17 Oct 2018 4:41

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.1	18.1	27.1
50	20.5	15.1	22.7





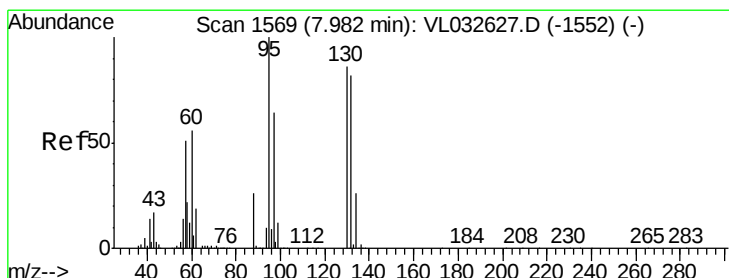
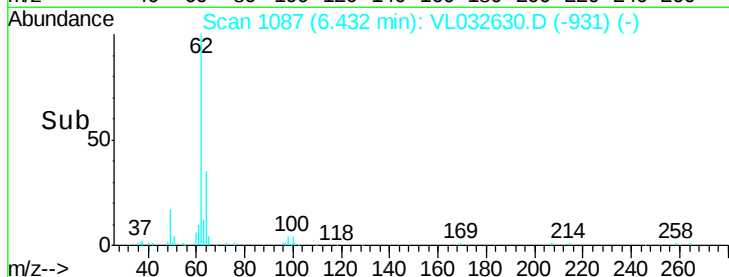
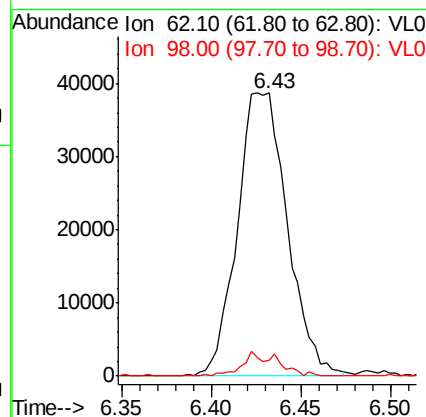
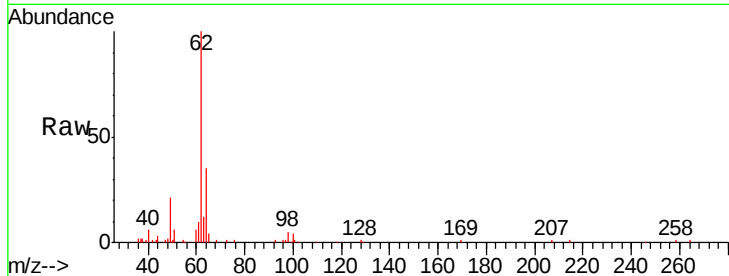
#37
 1,2-Dichloroethane
 Concen: 0.52 ppbv m
 RT: 6.43 min Scan# 1087
 Delta R.T. 0.00 min
 Lab File: VL032630.D
 Acq: 17 Oct 2018 4:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
62	100		
98	0.0	4.4	6.6#

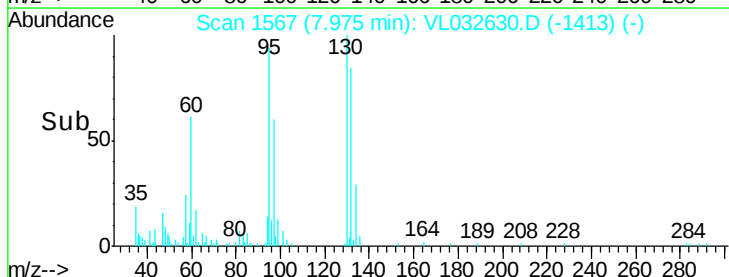
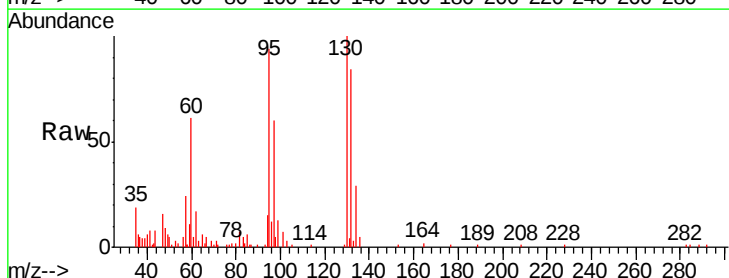
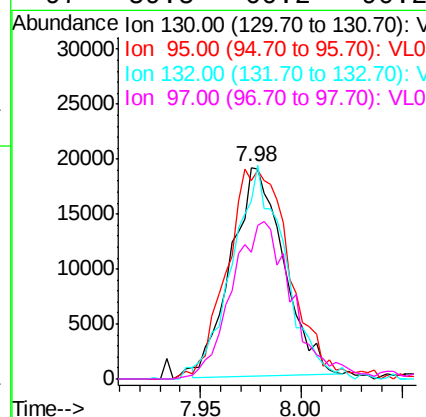
Manual Integrations
 APPROVED

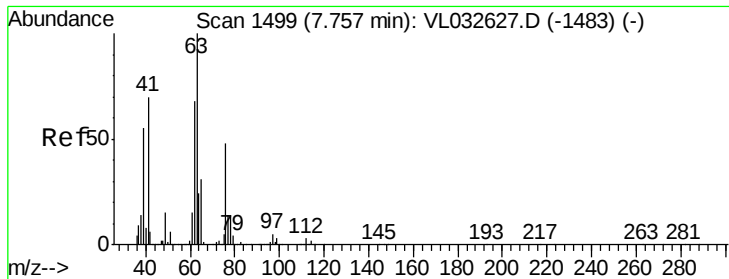
MMDadoda
 10/19/2018 4:36:26 PM



#38
 Trichloroethene
 Concen: 0.43 ppbv
 RT: 7.98 min Scan# 1567
 Delta R.T. -0.01 min
 Lab File: VL032630.D
 Acq: 17 Oct 2018 4:41

Tgt Ion	Ratio	Lower	Upper
130	100		
95	93.7	93.4	140.0
132	84.2	76.5	114.7
97	59.5	60.2	90.2#





#39

1,2-Dichloropropane

Concen: 0.47 ppbv

RT: 7.75 min Scan# 1498

Delta R.T. -0.00 min

Lab File: VL032630.D

Acq: 17 Oct 2018 4:41

Instrument :

MSVOA_L

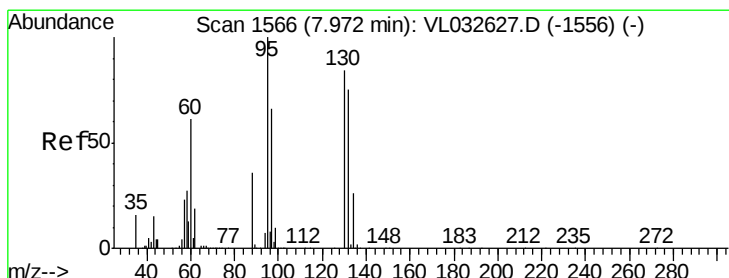
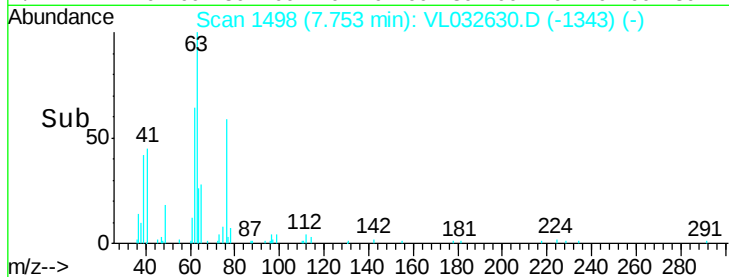
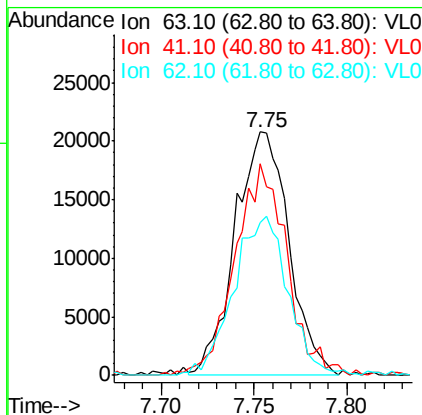
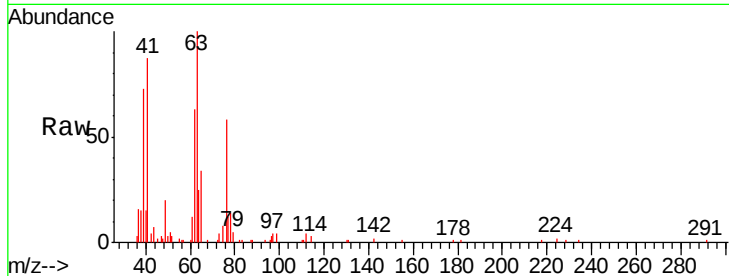
ClientSampleId :

VSTDIC0.5

Tgt Ion:	63	Resp:	41865
Ion Ratio	Lower	Upper	
63	100		
41	84.2	56.2	84.4
62	61.2	54.4	81.6

Manual Integrations
APPROVED

MMDadoda
10/19/2018 4:36:26 PM



#40

1,4-Dioxane

Concen: 0.45 ppbv m

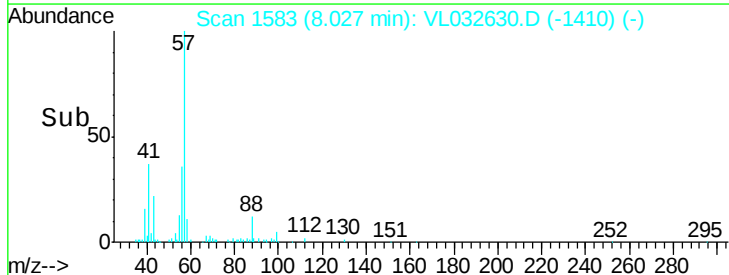
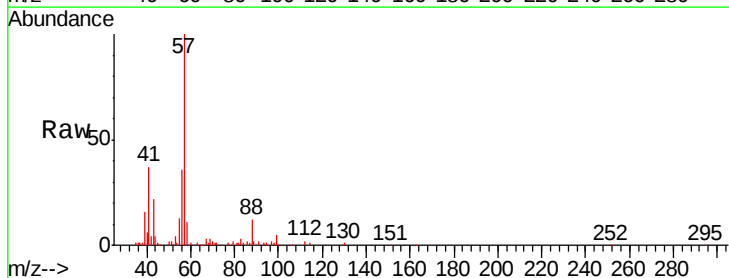
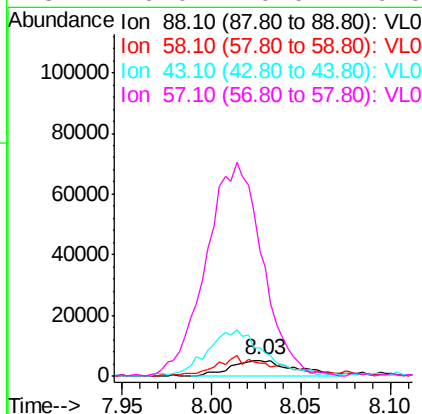
RT: 8.03 min Scan# 1583

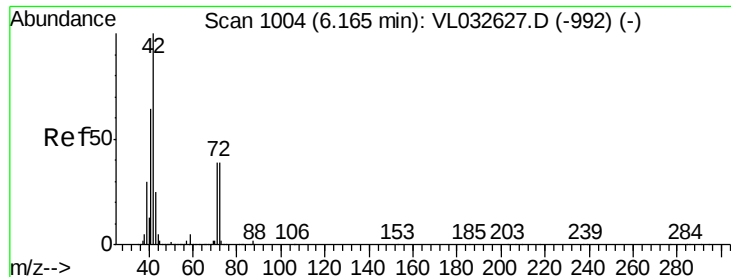
Delta R.T. 0.05 min

Lab File: VL032630.D

Acq: 17 Oct 2018 4:41

Tgt Ion:	88	Resp:	13033
Ion Ratio	Lower	Upper	
88	100		
58	0.0	104.0	156.0#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





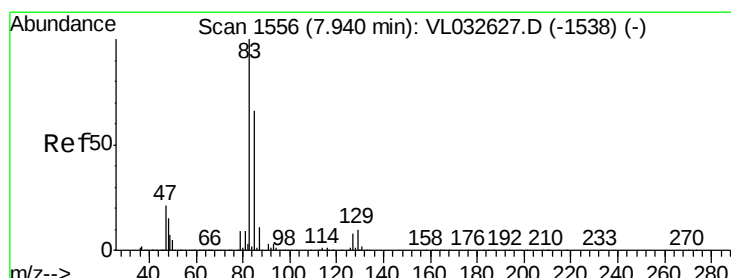
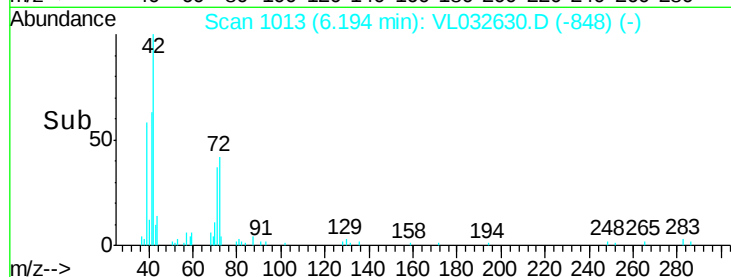
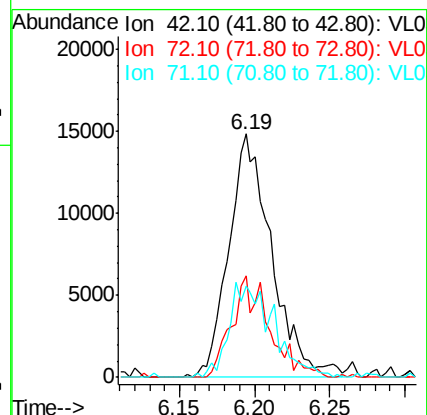
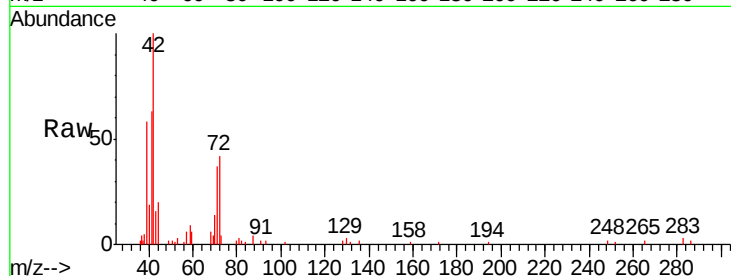
#41
Tetrahydrofuran
Concen: 0.37 ppbv m
RT: 6.19 min Scan# 1013
Delta R.T. 0.03 min
Lab File: VL032630.D
Acq: 17 Oct 2018 4:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
42	100		
72	36.7	32.4	48.6
71	40.1	31.3	46.9

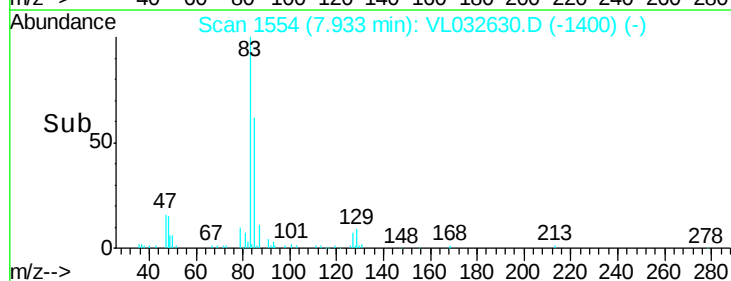
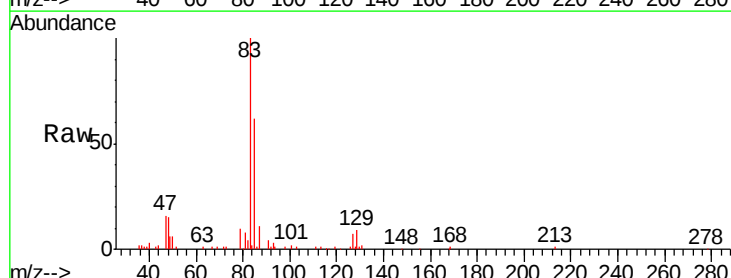
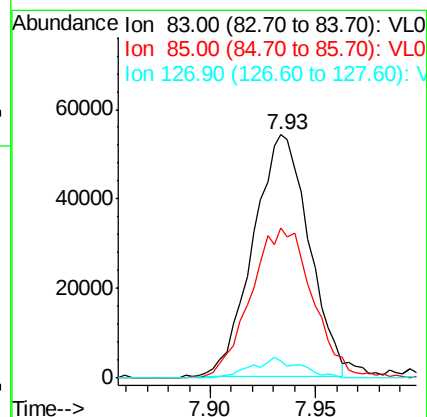
Manual Integrations
APPROVED

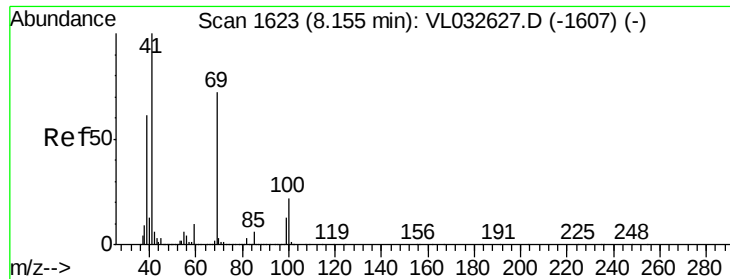
MMDadoda
10/19/2018 4:36:26 PM



#42
Bromodichloromethane
Concen: 0.49 ppbv
RT: 7.93 min Scan# 1554
Delta R.T. -0.01 min
Lab File: VL032630.D
Acq: 17 Oct 2018 4:41

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.4	52.4	78.6
127	7.1	6.1	9.1





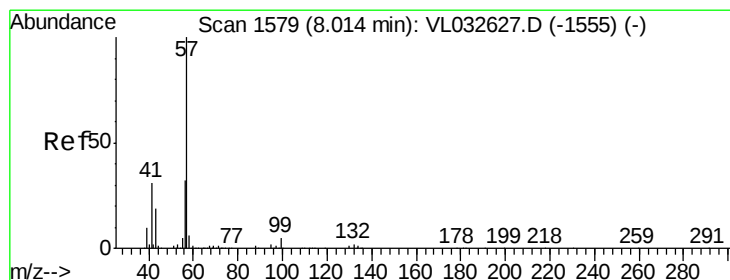
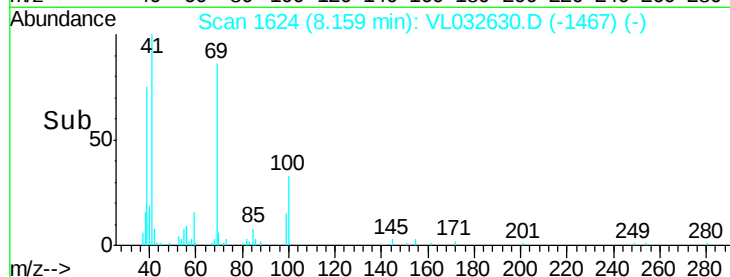
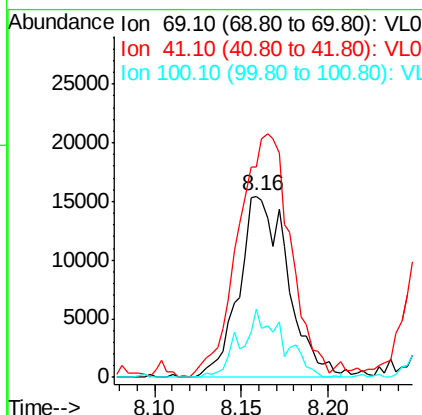
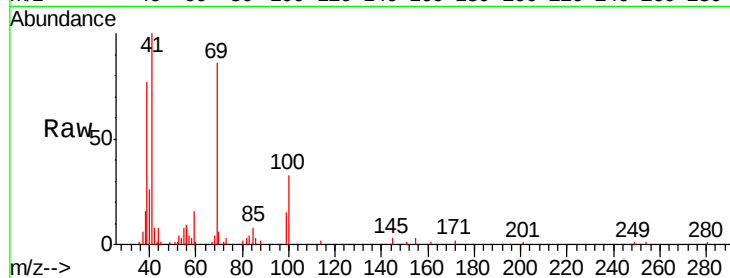
#43
Methyl Methacrylate
Concen: 0.36 ppbv m
RT: 8.16 min Scan# 1624
Delta R.T. 0.00 min
Lab File: VL032630.D
Acq: 17 Oct 2018 4:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
69	100		
41	0.0	113.2	169.8#
100	32.4	24.4	36.6

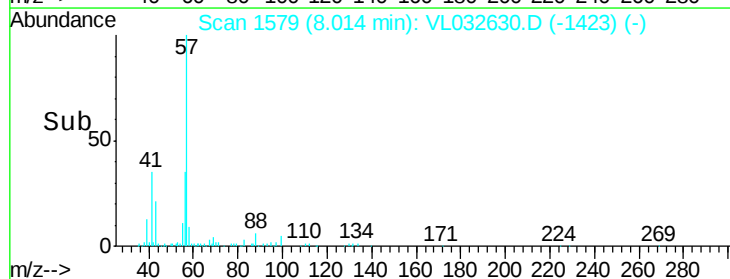
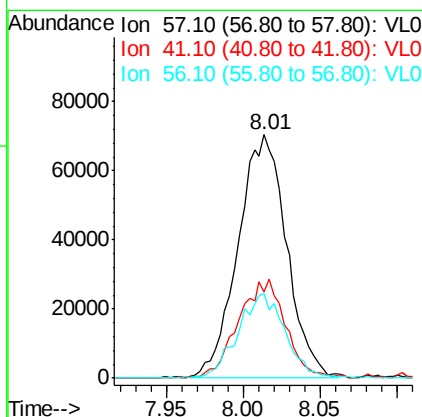
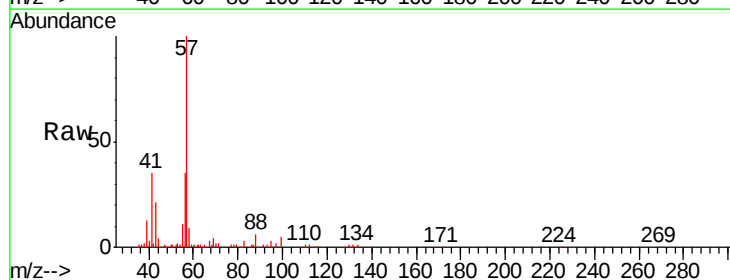
Manual Integrations
APPROVED

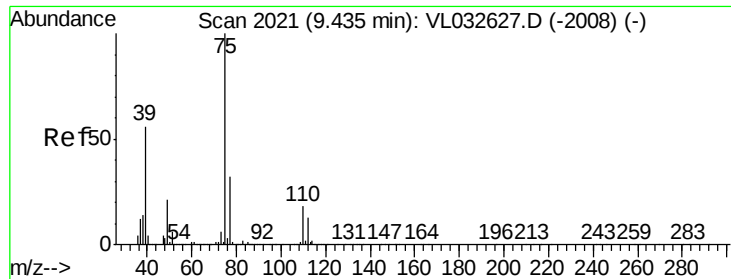
MMDadoda
10/19/2018 4:36:26 PM



#44
2,2,4-Trimethylpentane
Concen: 0.40 ppbv m
RT: 8.01 min Scan# 1579
Delta R.T. 0.00 min
Lab File: VL032630.D
Acq: 17 Oct 2018 4:41

Tgt Ion	Ratio	Lower	Upper
57	100		
41	0.0	24.7	37.1#
56	0.0	25.0	37.4#





#45

t-1,3-Dichloropropene

Concen: 0.35 ppbv m

RT: 9.44 min Scan# 2022

Delta R.T. 0.00 min

Lab File: VL032630.D

Acq: 17 Oct 2018 4:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 75 Resp: 37278

Ion Ratio Lower Upper

75 100

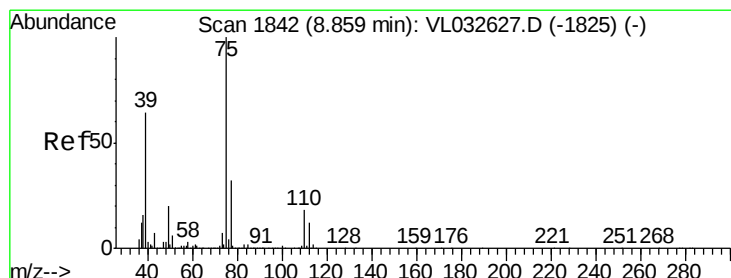
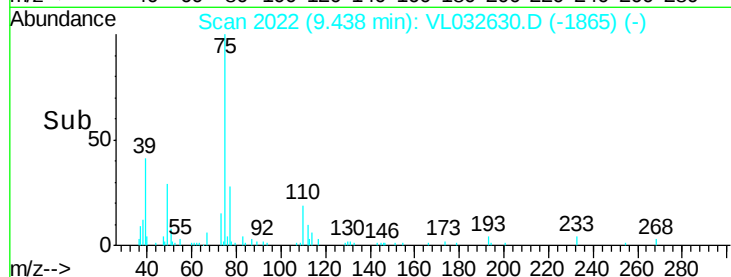
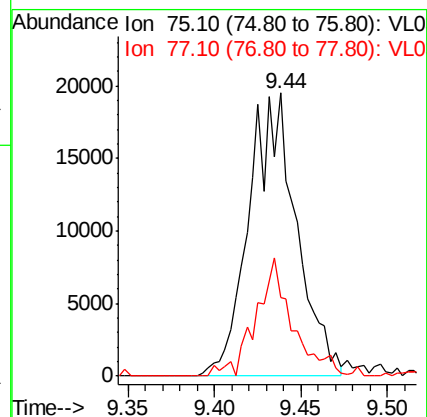
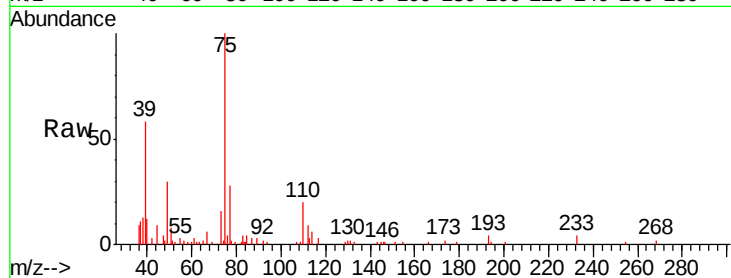
77 27.6 25.3 37.9

Manual Integrations

APPROVED

MMDadoda

10/19/2018 4:36:26 PM



#46

cis-1,3-Dichloropropene

Concen: 0.35 ppbv m

RT: 8.86 min Scan# 1842

Delta R.T. 0.00 min

Lab File: VL032630.D

Acq: 17 Oct 2018 4:41

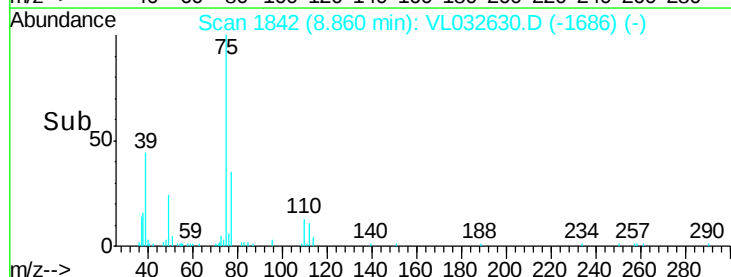
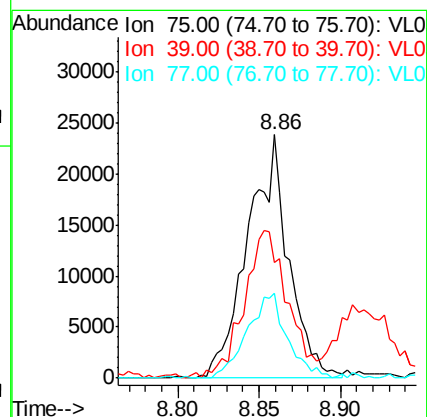
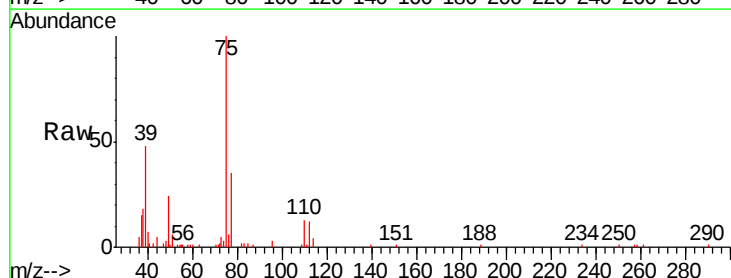
Tgt Ion: 75 Resp: 41965

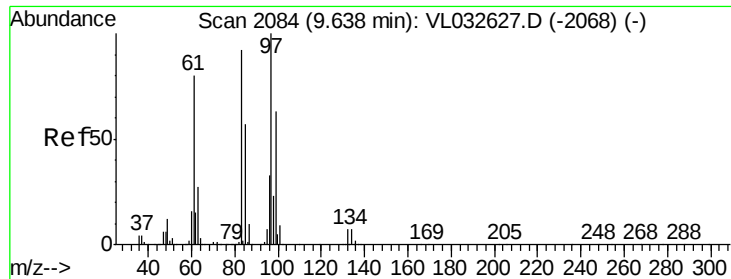
Ion Ratio Lower Upper

75 100

39 47.7 50.9 76.3#

77 34.8 25.8 38.6





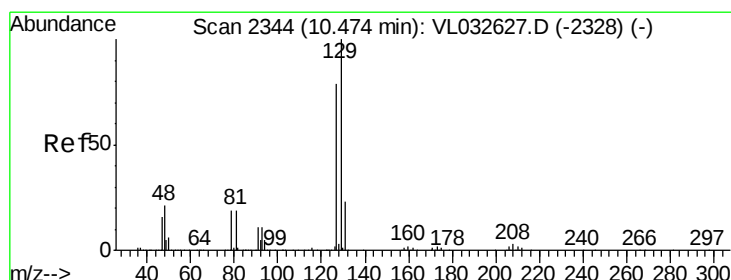
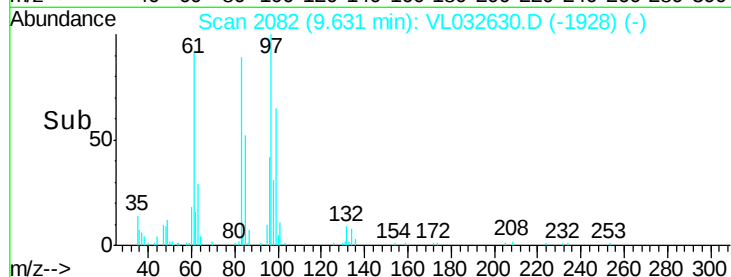
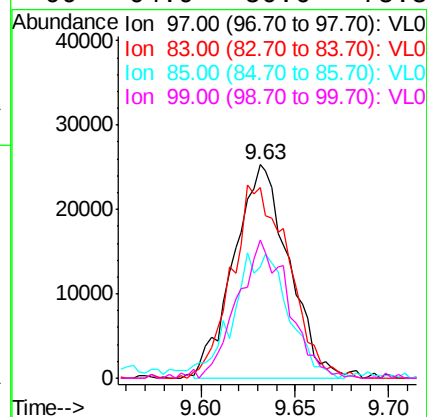
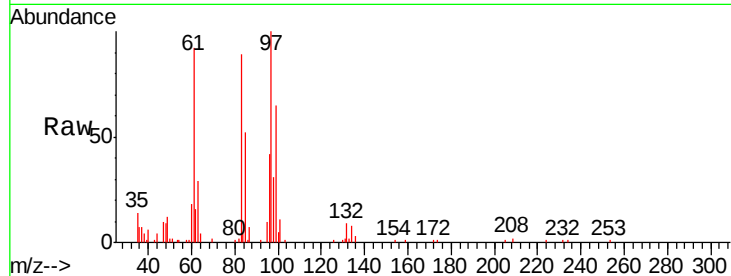
#47
 1,1,2-Trichloroethane
 Concen: 0.49 ppbv m
 RT: 9.63 min Scan# 2082
 Delta R.T. -0.01 min
 Lab File: VL032630.D
 Acq: 17 Oct 2018 4:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
97	100		
83	89.2	73.5	110.3
85	52.0	45.8	68.6
99	64.9	50.6	75.8

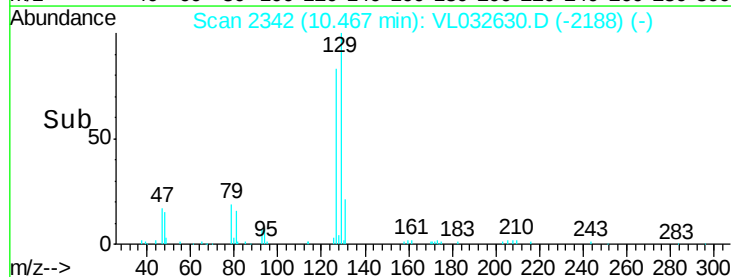
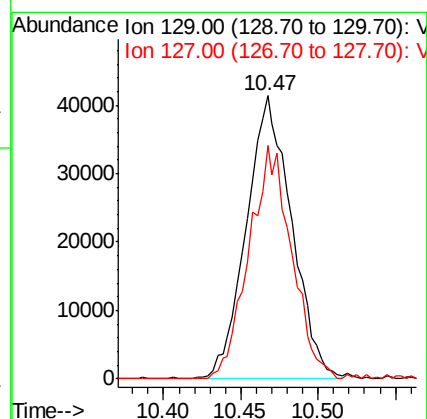
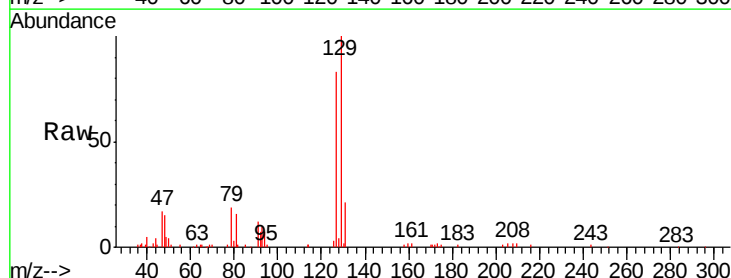
Manual Integrations
 APPROVED

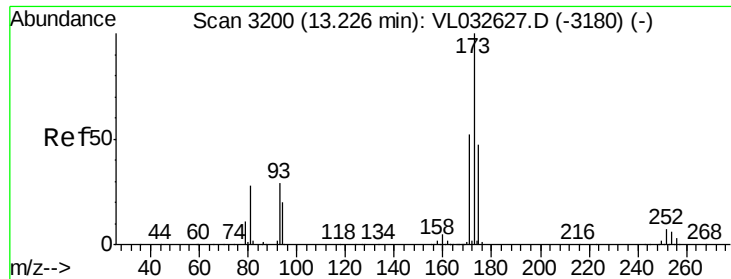
MMDadoda
 10/19/2018 4:36:26 PM



#48
 Dibromochloromethane
 Concen: 0.48 ppbv
 RT: 10.47 min Scan# 2342
 Delta R.T. -0.01 min
 Lab File: VL032630.D
 Acq: 17 Oct 2018 4:41

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.3	39.1	117.5





#49

Bromoform

Concen: 0.48 ppbv

RT: 13.22 min Scan# 3197

Delta R.T. -0.01 min

Lab File: VL032630.D

Acq: 17 Oct 2018 4:41

Instrument :

MSVOA_L

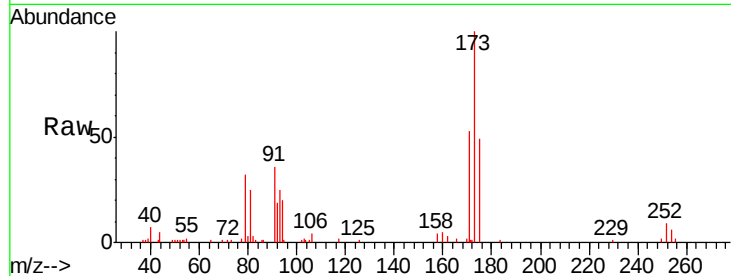
ClientSampleId :

VSTDIC0.5

Tgt Ion:	173	Resp:	63846
Ion Ratio	Lower	Upper	
173	100		
175	47.8	39.0	58.4
171	50.9	42.2	63.2

Manual Integrations
APPROVED

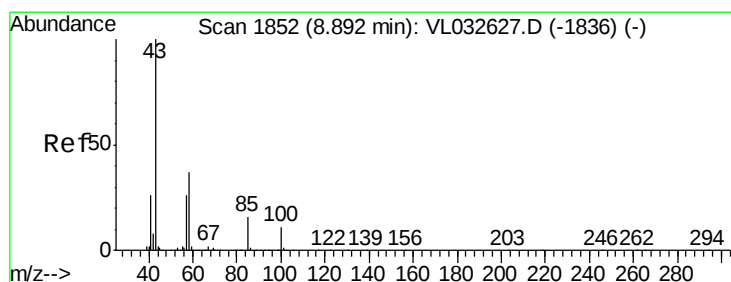
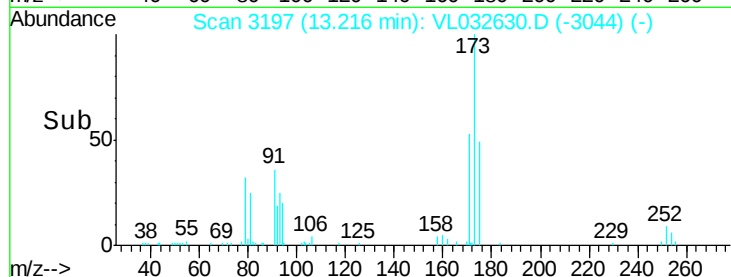
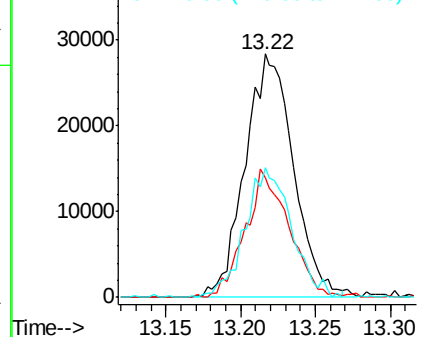
MMDadoda
10/19/2018 4:36:26 PM



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: 0.37 ppbv

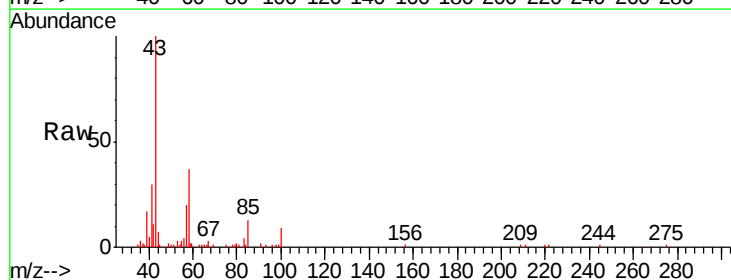
RT: 8.92 min Scan# 1860

Delta R.T. 0.03 min

Lab File: VL032630.D

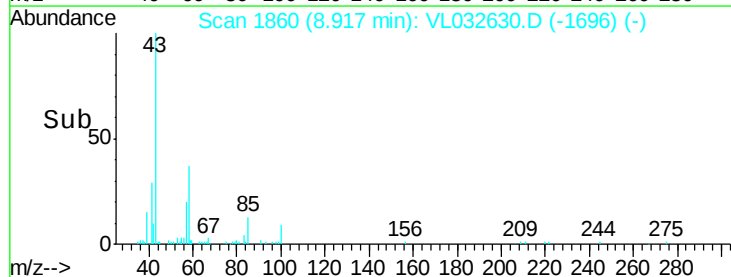
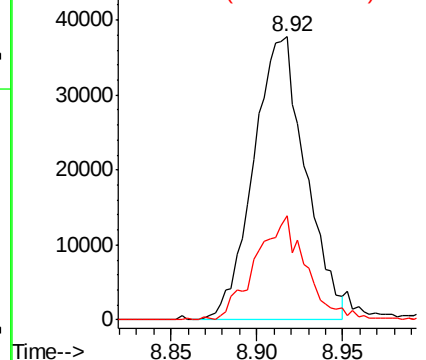
Acq: 17 Oct 2018 4:41

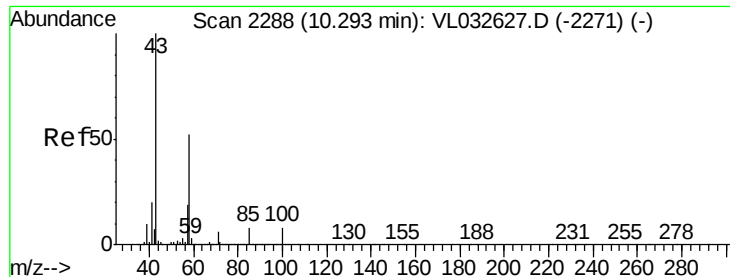
Tgt Ion:	43	Resp:	79299
Ion Ratio	Lower	Upper	
43	100		
58	35.5	29.7	44.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





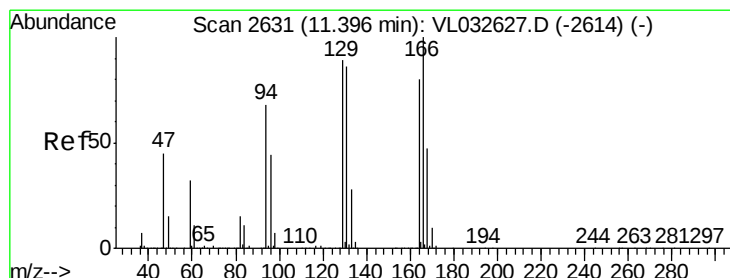
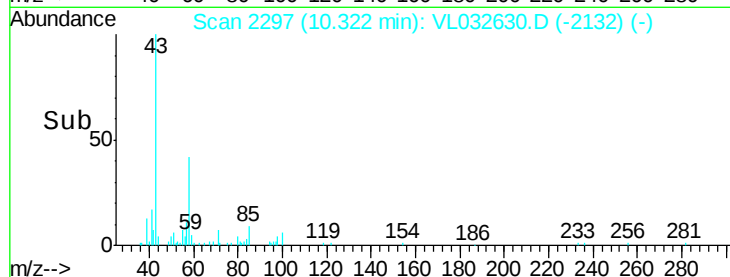
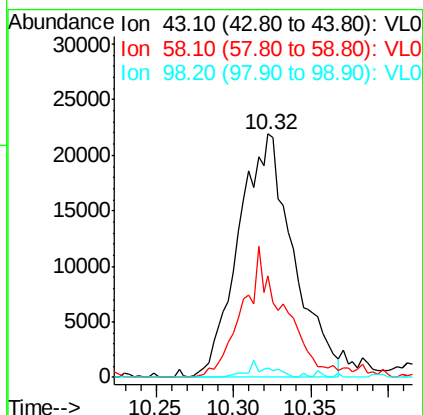
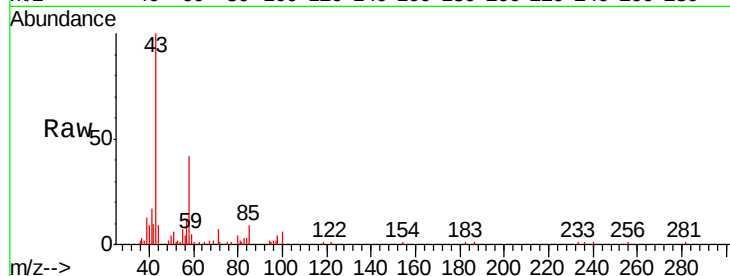
#51
2-Hexanone
Concen: 0.32 ppbv
RT: 10.32 min Scan# 2297
Delta R.T. 0.03 min
Lab File: VL032630.D
Acq: 17 Oct 2018 4:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
43	100		
58	43.4	40.4	60.6
98	2.8	0.4	0.6

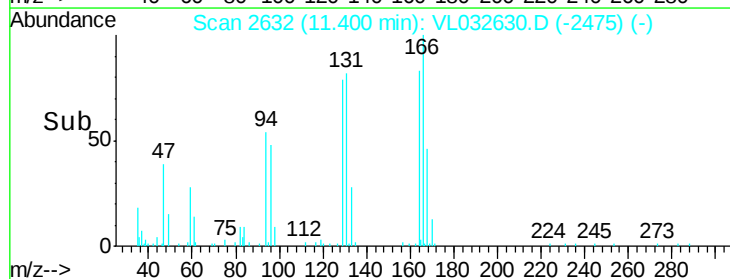
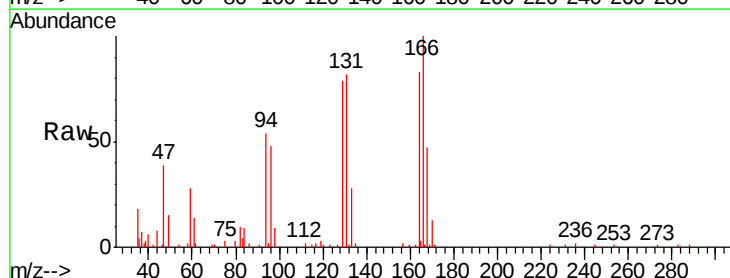
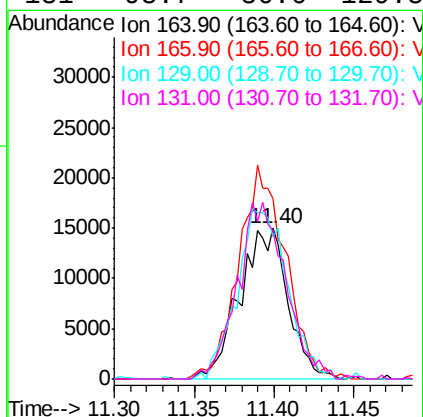
Manual Integrations
APPROVED

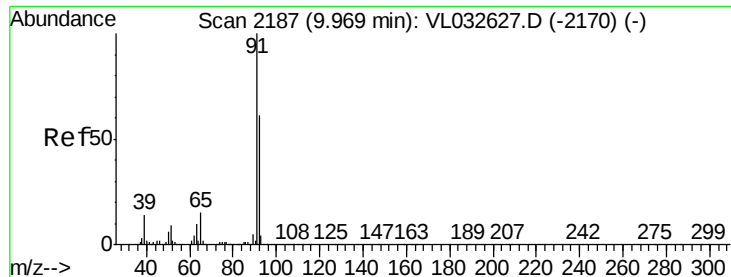
MMDadoda
10/19/2018 4:36:26 PM



#52
Tetrachloroethene
Concen: 0.45 ppbv m
RT: 11.40 min Scan# 2632
Delta R.T. 0.00 min
Lab File: VL032630.D
Acq: 17 Oct 2018 4:41

Tgt Ion	Ratio	Lower	Upper
164	100		
166	120.1	100.5	150.7
129	94.8	90.0	135.0
131	98.7	86.6	129.8





#53

Toluene

Concen: 0.34 ppbv

RT: 9.97 min Scan# 2187

Delta R.T. 0.00 min

Lab File: VL032630.D

Acq: 17 Oct 2018 4:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 91 Resp: 84369

Ion Ratio Lower Upper

91 100

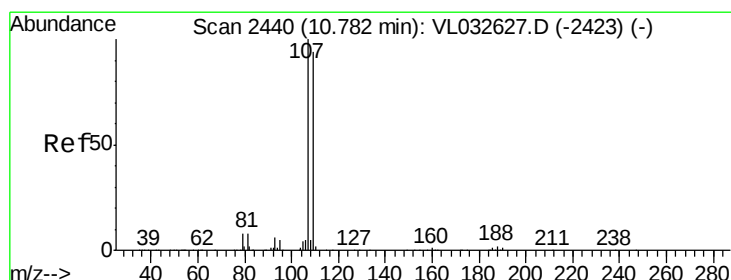
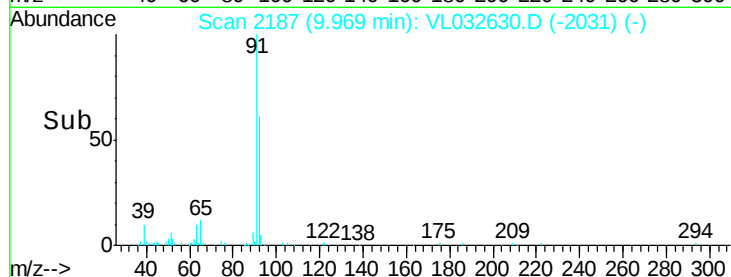
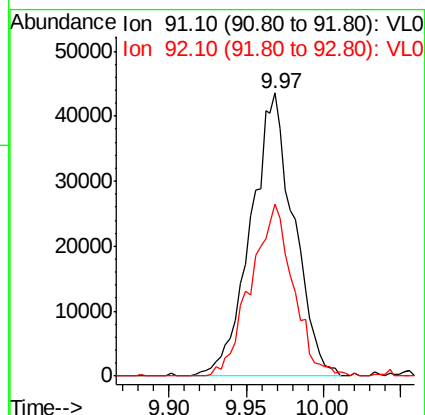
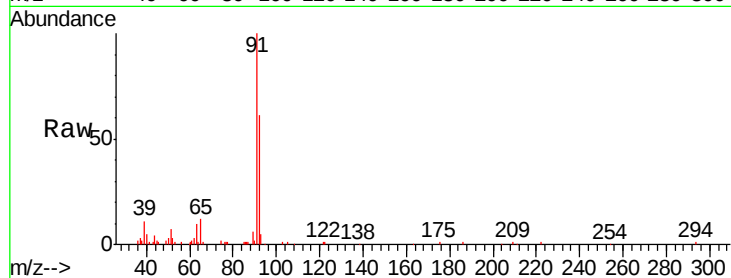
92 59.8 48.4 72.6

Manual Integrations

APPROVED

MMDadoda

10/19/2018 4:36:26 PM



#54

1,2-Dibromoethane

Concen: 0.44 ppbv

RT: 10.78 min Scan# 2438

Delta R.T. -0.01 min

Lab File: VL032630.D

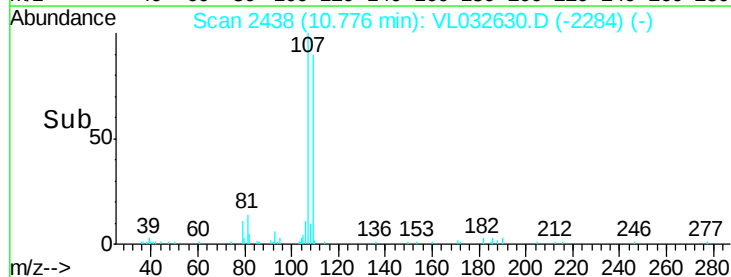
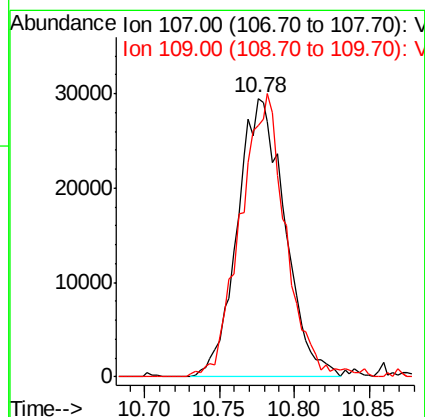
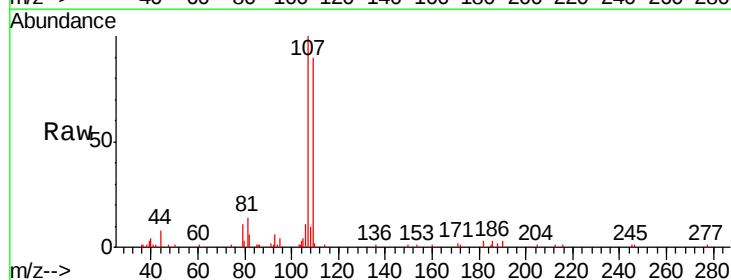
Acq: 17 Oct 2018 4:41

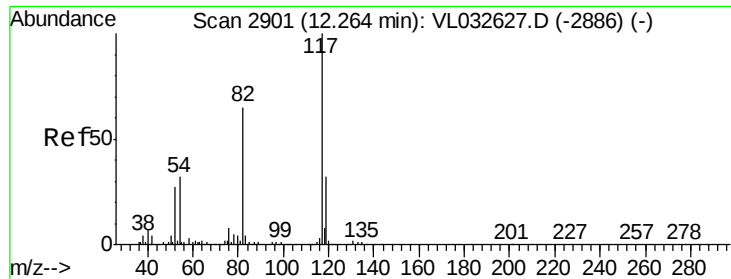
Tgt Ion: 107 Resp: 65098

Ion Ratio Lower Upper

107 100

109 89.2 75.3 112.9





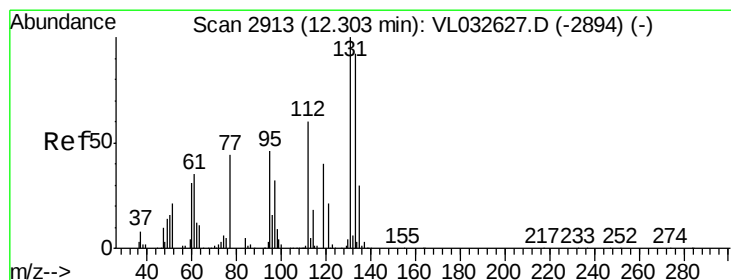
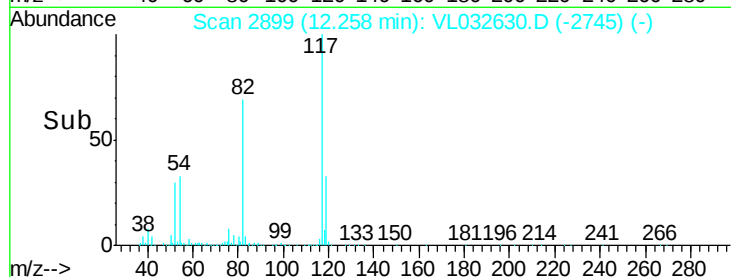
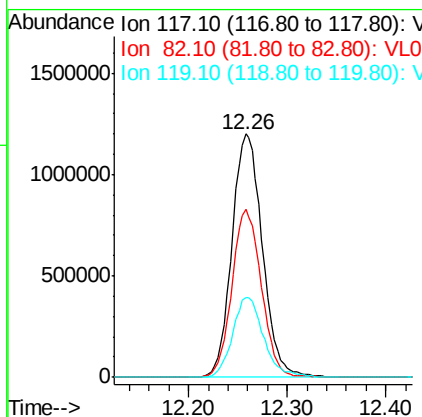
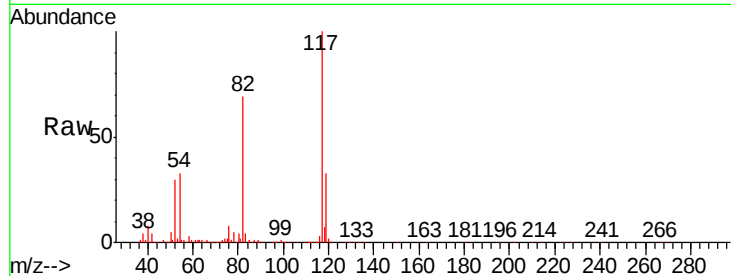
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.26 min Scan# 2899
Delta R.T. -0.01 min
Lab File: VL032630.D
Acq: 17 Oct 2018 4:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:117 Resp: 2586715
Ion Ratio Lower Upper
117 100
82 67.1 52.7 79.1
119 33.6 26.7 40.1

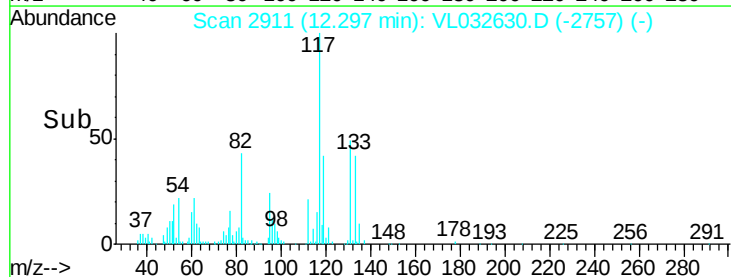
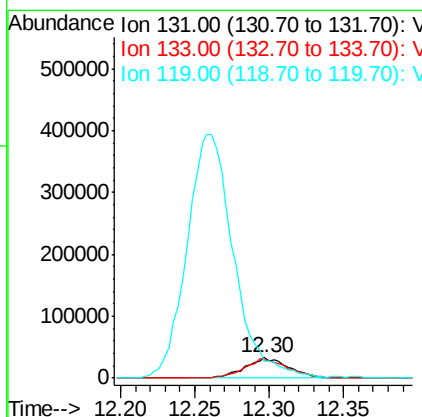
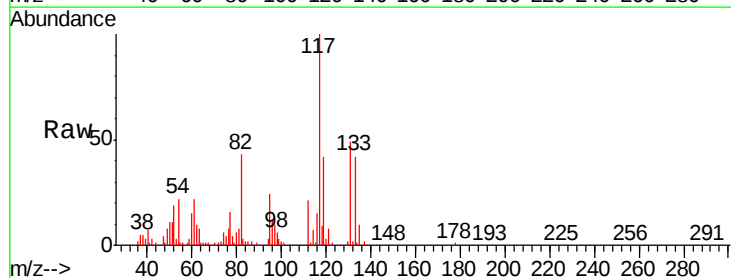
Manual Integrations
APPROVED

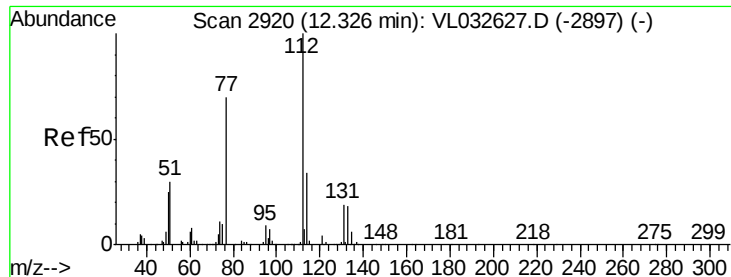
MMDadoda
10/19/2018 4:36:26 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 0.57 ppbv m
RT: 12.30 min Scan# 2911
Delta R.T. -0.01 min
Lab File: VL032630.D
Acq: 17 Oct 2018 4:41

Tgt Ion:131 Resp: 66670
Ion Ratio Lower Upper
131 100
133 0.0 75.4 113.2#
119 0.0 49.1 73.7#





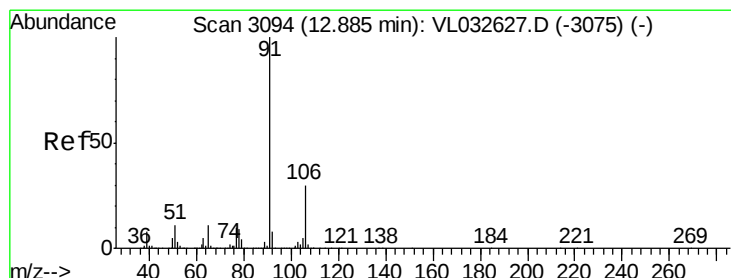
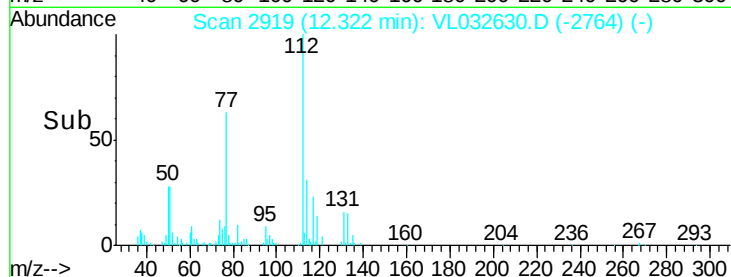
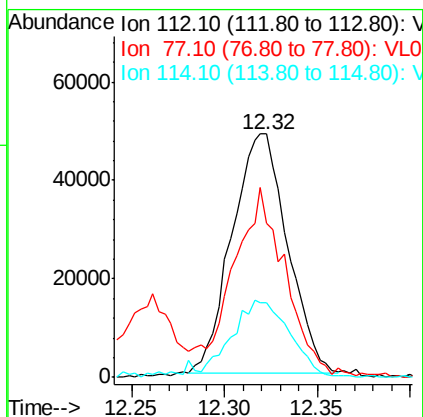
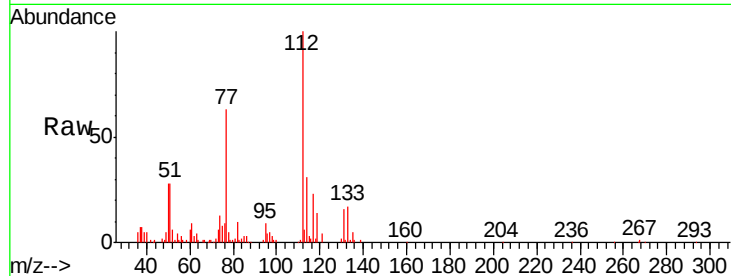
#57
Chlorobenzene
Concen: 0.52 ppbv
RT: 12.32 min Scan# 2919
Delta R.T. -0.00 min
Lab File: VL032630.D
Acq: 17 Oct 2018 4:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
112	100		
77	60.2	56.8	85.2
114	30.6	30.3	37.1

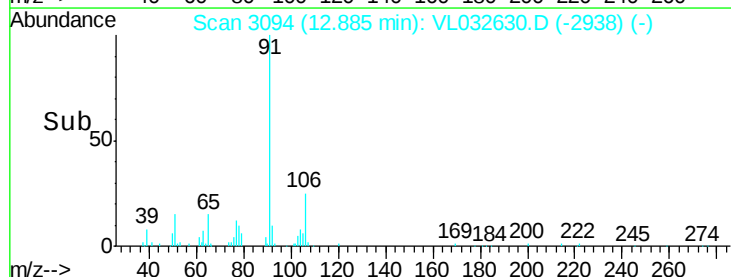
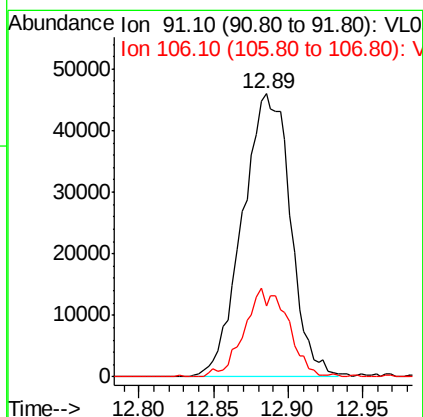
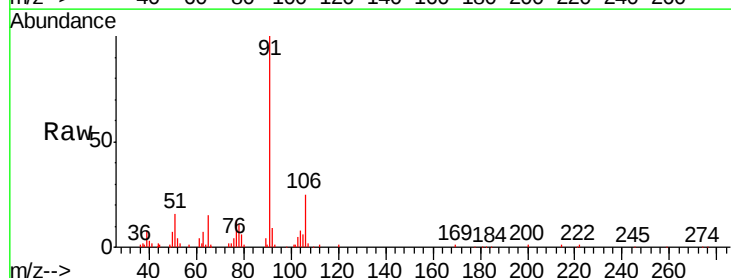
Manual Integrations
APPROVED

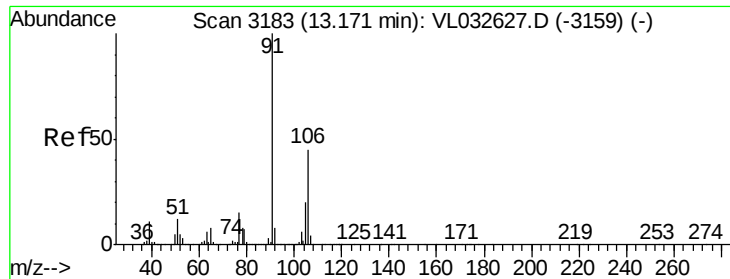
MMDadoda
10/19/2018 4:36:26 PM



#58
Ethyl Benzene
Concen: 0.36 ppbv m
RT: 12.89 min Scan# 3094
Delta R.T. 0.00 min
Lab File: VL032630.D
Acq: 17 Oct 2018 4:41

Tgt Ion	Ratio	Lower	Upper
91	100		
106	25.0	24.2	36.2





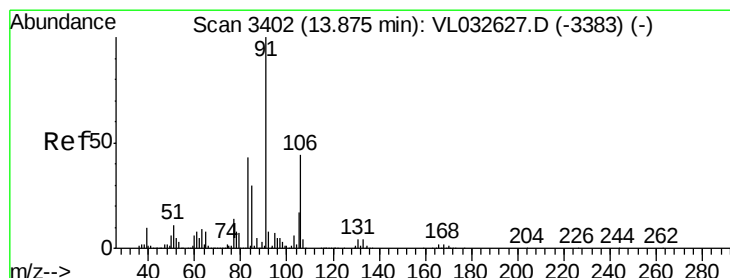
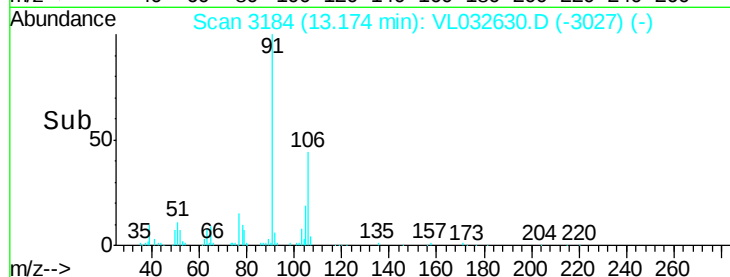
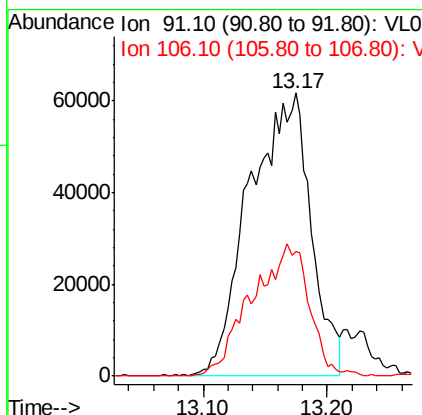
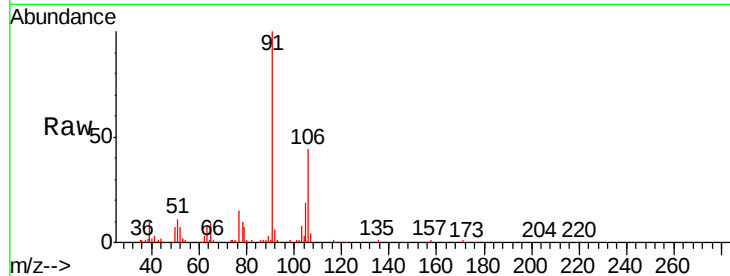
#59
m/p-Xylene
Concen: 0.82 ppbv m
RT: 13.17 min Scan# 3184
Delta R.T. 0.00 min
Lab File: VL032630.D
Acq: 17 Oct 2018 4:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 91 Resp: 211621
Ion Ratio Lower Upper
91 100
106 43.8 35.9 53.9

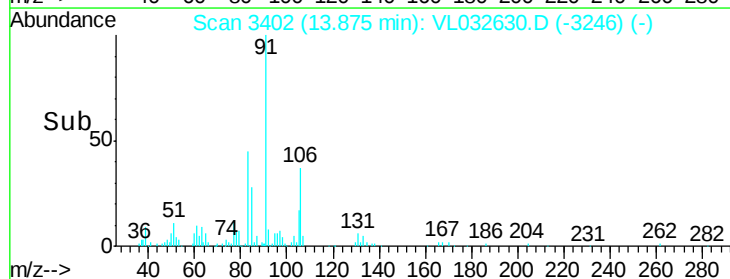
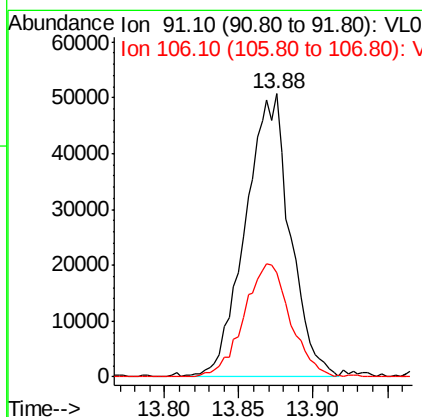
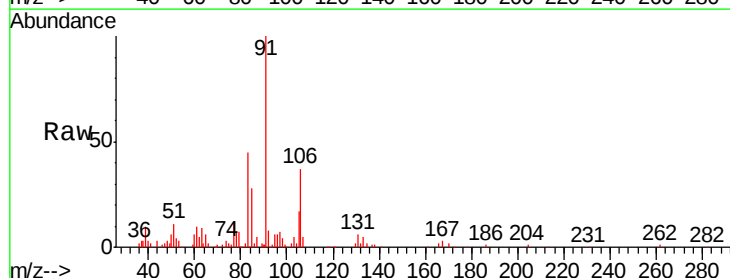
Manual Integrations
APPROVED

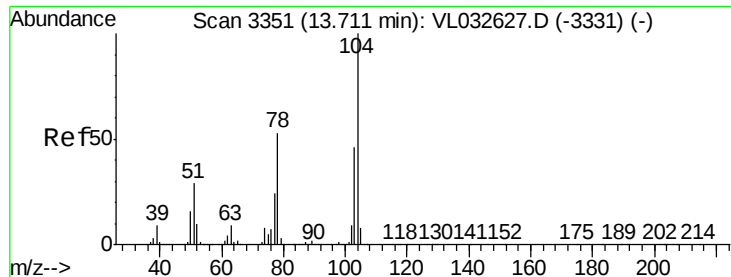
MMDadoda
10/19/2018 4:36:26 PM



#60
o-Xylene
Concen: 0.42 ppbv m
RT: 13.88 min Scan# 3402
Delta R.T. 0.00 min
Lab File: VL032630.D
Acq: 17 Oct 2018 4:41

Tgt Ion: 91 Resp: 105970
Ion Ratio Lower Upper
91 100
106 41.6 22.1 66.1





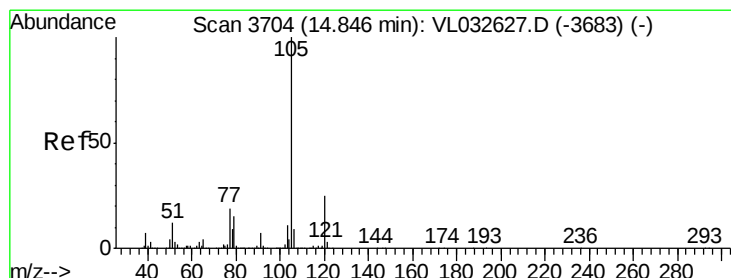
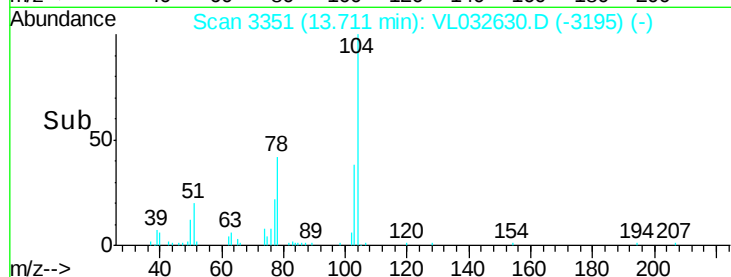
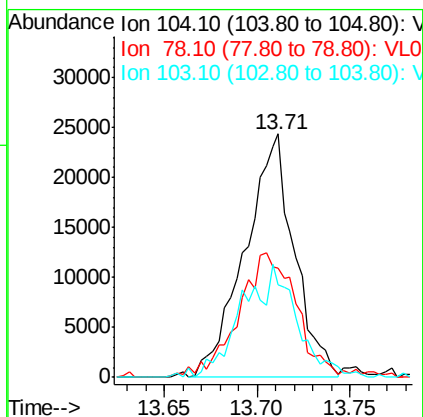
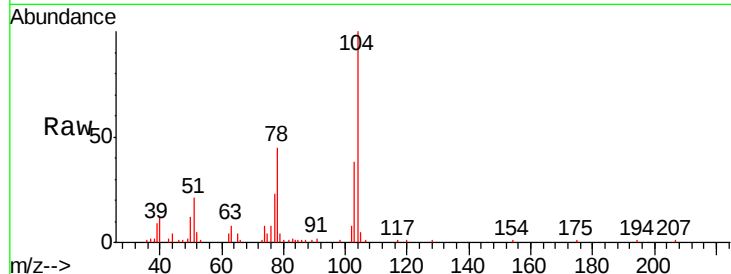
#61
Styrene
Concen: 0.29 ppbv
RT: 13.71 min Scan# 3351
Delta R.T. 0.00 min
Lab File: VL032630.D
Acq: 17 Oct 2018 4:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
104	100		
78	61.6	42.8	64.2
103	52.2	37.4	56.0

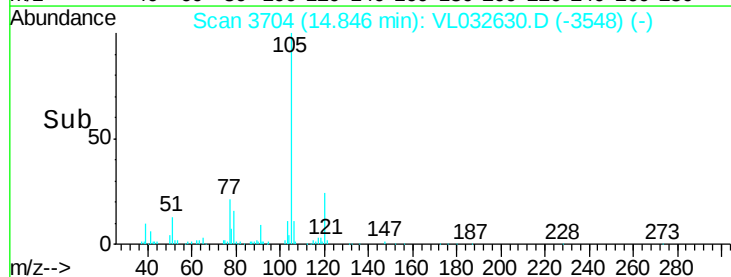
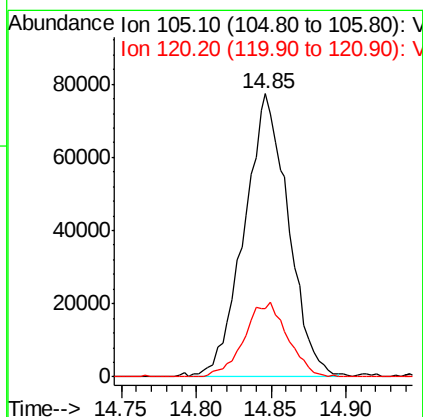
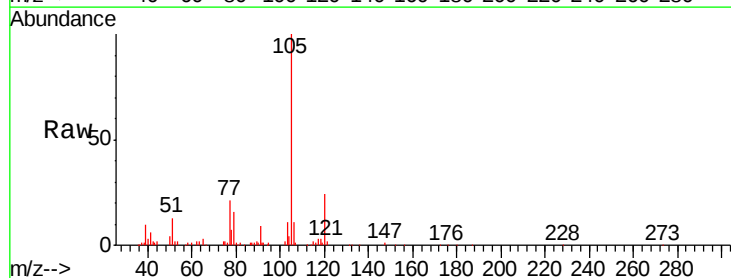
Manual Integrations
APPROVED

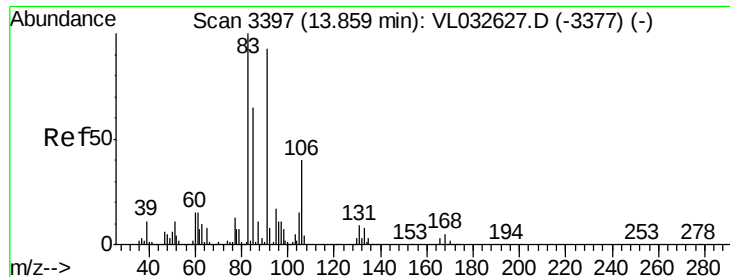
MMDadoda
10/19/2018 4:36:26 PM



#62
Isopropylbenzene
Concen: 0.44 ppbv
RT: 14.85 min Scan# 3704
Delta R.T. 0.00 min
Lab File: VL032630.D
Acq: 17 Oct 2018 4:41

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.9	20.5	30.7





#63

1,1,2,2-Tetrachloroethane

Concen: 0.53 ppbv m

RT: 13.86 min Scan# 3397

Delta R.T. 0.00 min

Lab File: VL032630.D

Acq: 17 Oct 2018 4:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 83 Resp: 117786
Ion Ratio Lower Upper

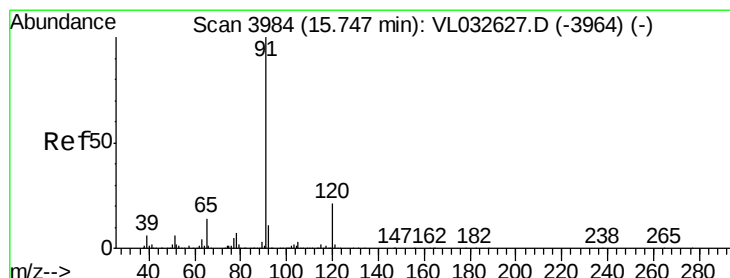
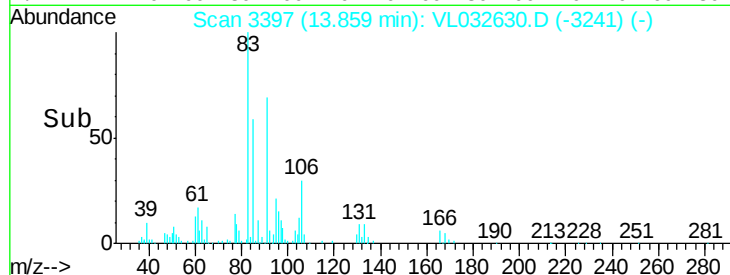
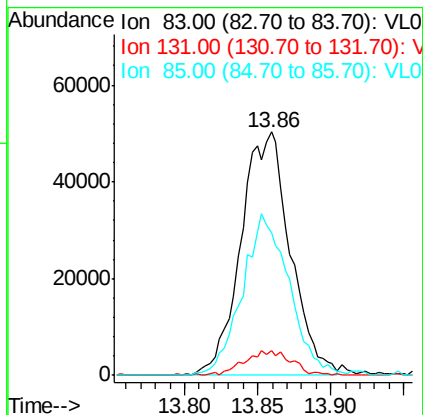
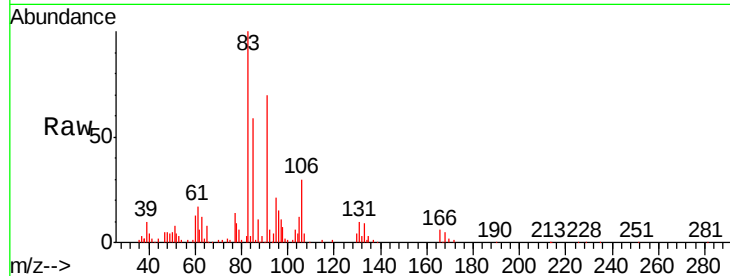
83 100

131 9.7 4.3 12.9

85 63.9 32.3 96.9

Manual Integrations
APPROVED

MMDadoda
10/19/2018 4:36:26 PM



#64

n-propylbenzene

Concen: 0.43 ppbv m

RT: 15.75 min Scan# 3984

Delta R.T. 0.00 min

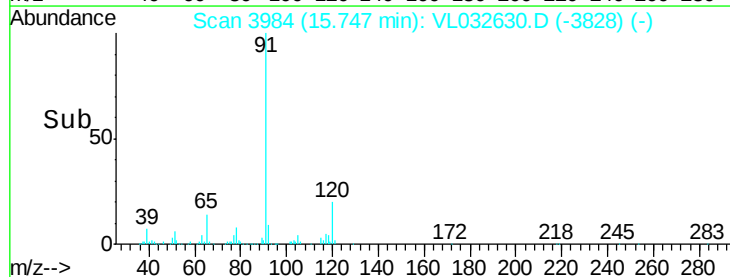
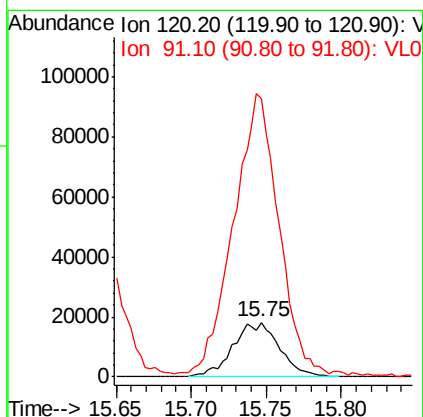
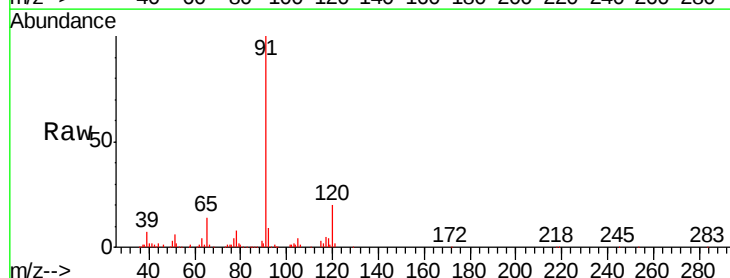
Lab File: VL032630.D

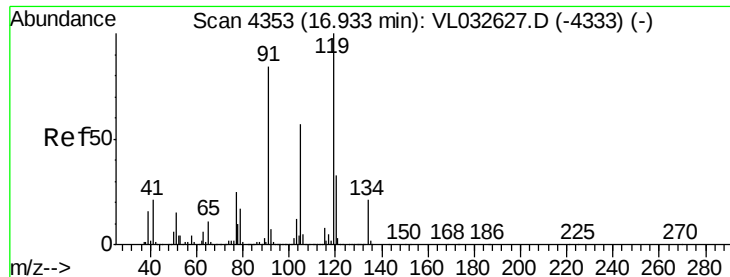
Acq: 17 Oct 2018 4:41

Tgt Ion: 120 Resp: 38954
Ion Ratio Lower Upper

120 100

91 0.0 390.2 585.2#





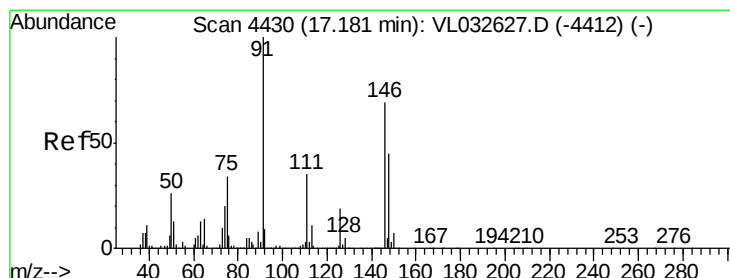
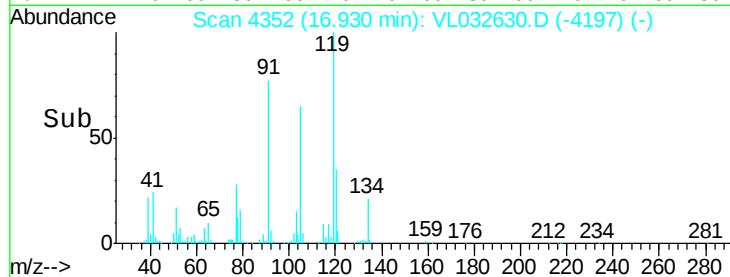
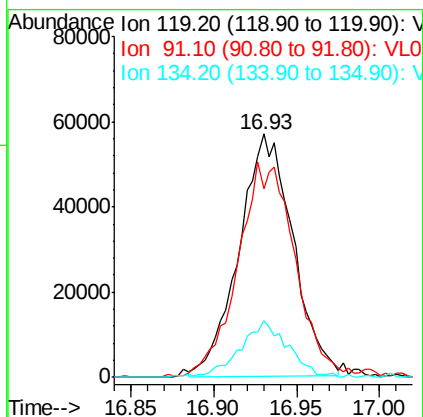
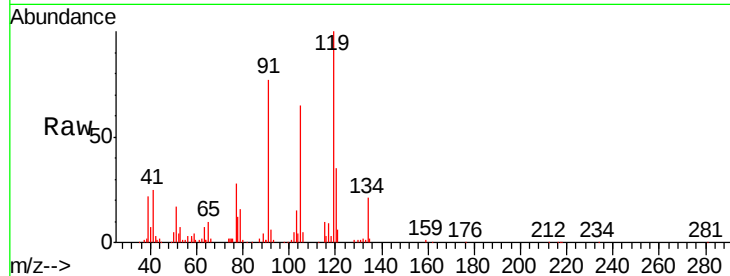
#65
tert-Butylbenzene
Concen: 0.42 ppbv
RT: 16.93 min Scan# 4352
Delta R.T. -0.00 min
Lab File: VL032630.D
Acq: 17 Oct 2018 4:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	128513		
91	96.1	67.8	101.8	
134	21.1	15.8	23.8	

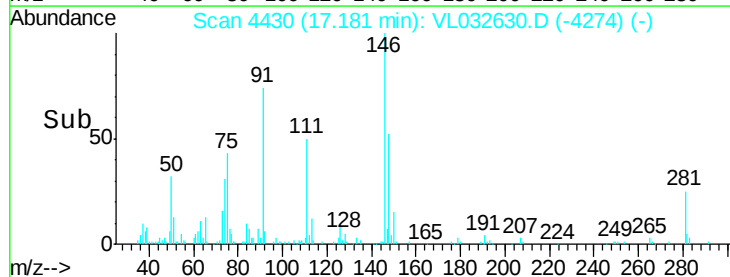
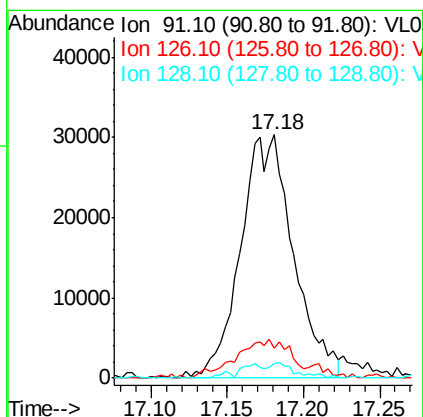
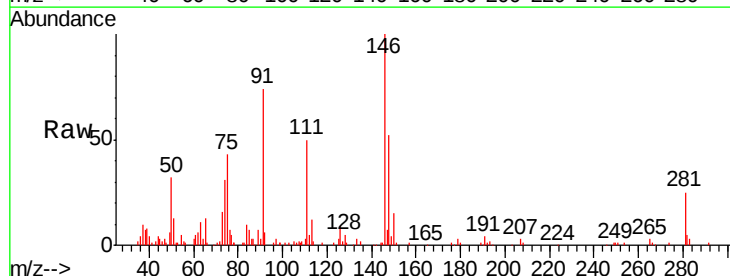
Manual Integrations
APPROVED

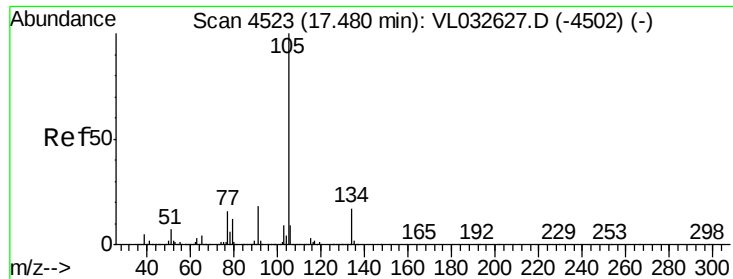
MMDadoda
10/19/2018 4:36:26 PM



#66
Benzyl Chloride
Concen: 0.43 ppbv m
RT: 17.18 min Scan# 4430
Delta R.T. 0.00 min
Lab File: VL032630.D
Acq: 17 Oct 2018 4:41

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	72766		
126	0.0	13.9	20.9#	
128	0.0	4.3	6.5#	





#67

sec-Butylbenzene

Concen: 0.44 ppbv

RT: 17.48 min Scan# 4524

Delta R.T. 0.00 min

Lab File: VL032630.D

Acq: 17 Oct 2018 4:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 105 Resp: 204002

Ion Ratio Lower Upper

105 100

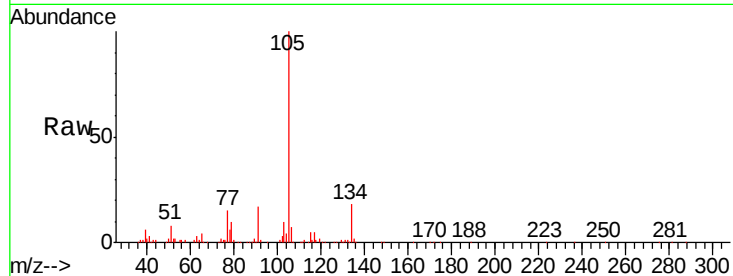
134 17.6 14.2 21.2

Manual Integrations

APPROVED

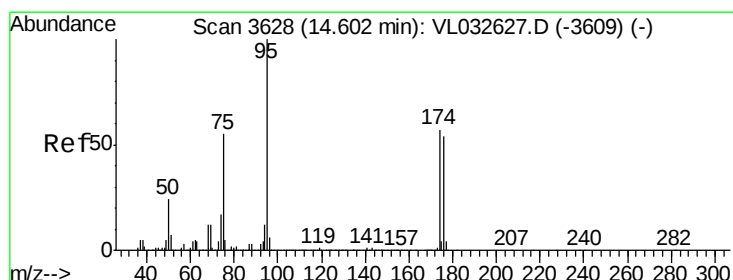
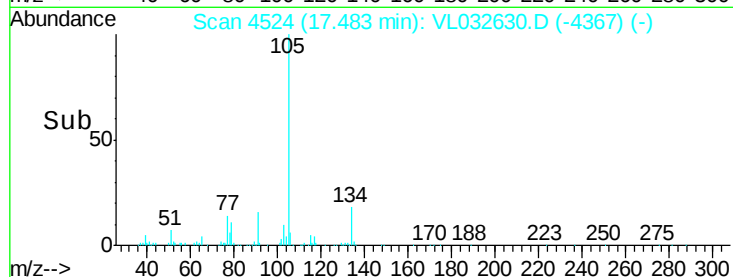
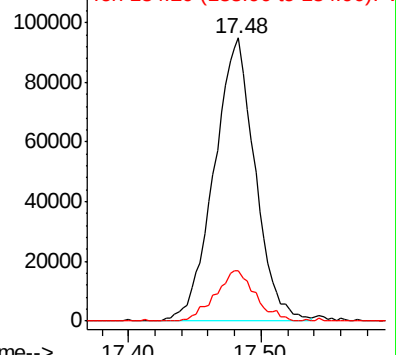
MMDadoda

10/19/2018 4:36:26 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.47 ppbv

RT: 14.60 min Scan# 3626

Delta R.T. -0.01 min

Lab File: VL032630.D

Acq: 17 Oct 2018 4:41

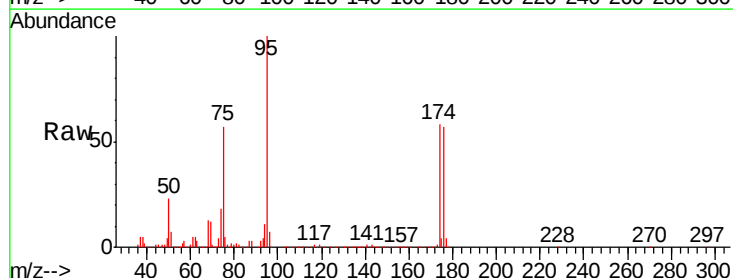
Tgt Ion: 95 Resp: 2050232

Ion Ratio Lower Upper

95 100

174 58.6 46.0 69.0

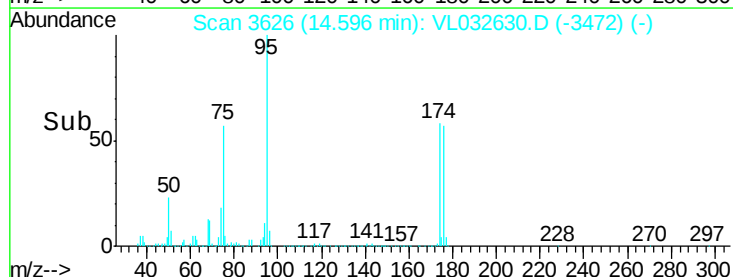
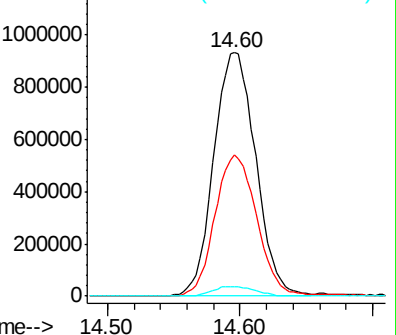
175 4.1 3.4 5.0

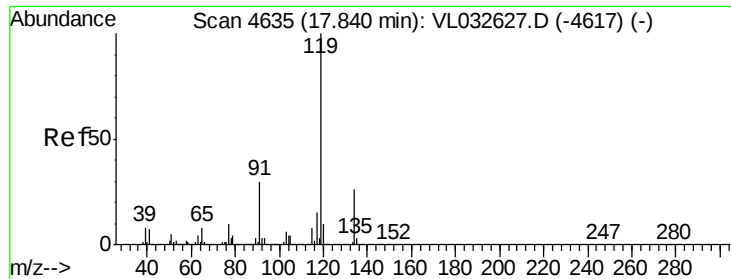


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





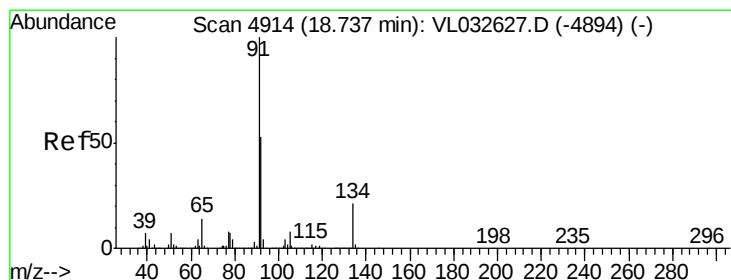
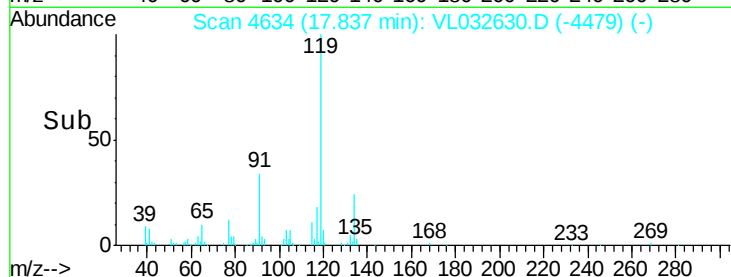
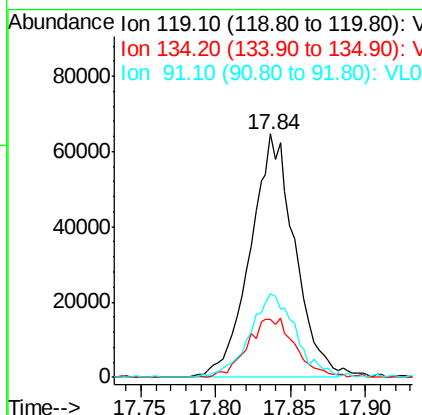
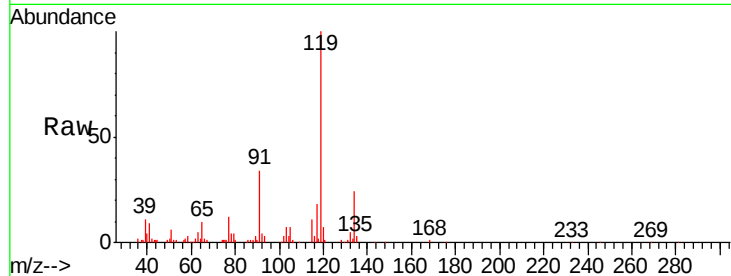
#69
 p-Isopropyltoluene
 Concen: 0.38 ppbv
 RT: 17.84 min Scan# 4634
 Delta R.T. -0.00 min
 Lab File: VL032630.D
 Acq: 17 Oct 2018 4:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	133363		
134	26.6	20.2	30.2	
91	35.9	24.0	36.0	

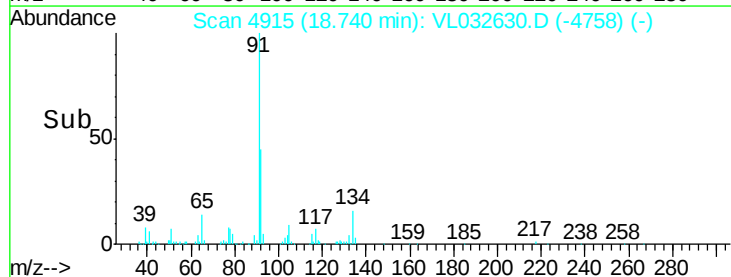
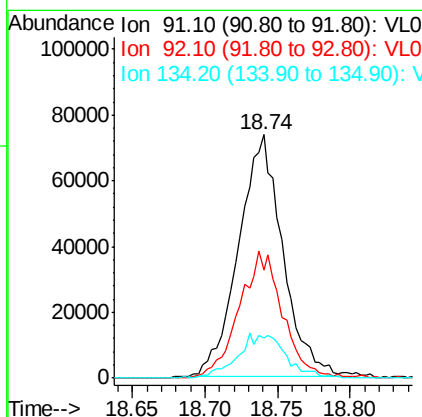
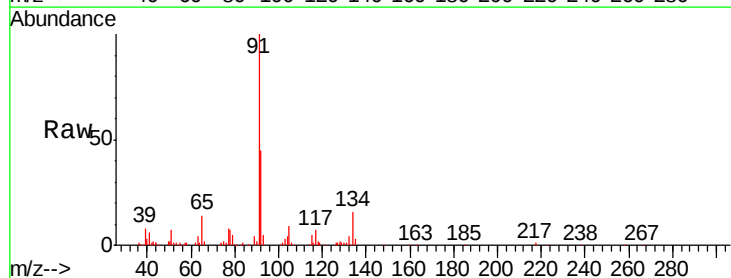
Manual Integrations
 APPROVED

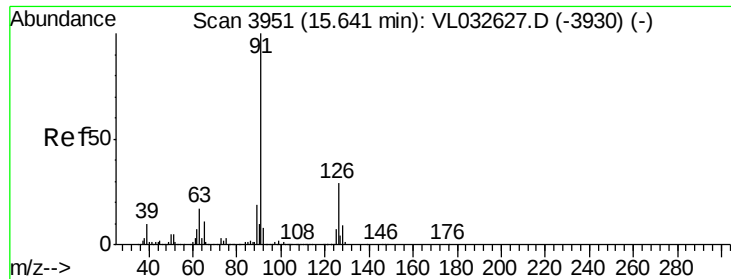
MMDadoda
 10/19/2018 4:36:26 PM



#70
 n-Butylbenzene
 Concen: 0.40 ppbv
 RT: 18.74 min Scan# 4915
 Delta R.T. 0.00 min
 Lab File: VL032630.D
 Acq: 17 Oct 2018 4:41

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	155035		
92	51.9	43.0	64.4	
134	20.0	17.0	25.6	





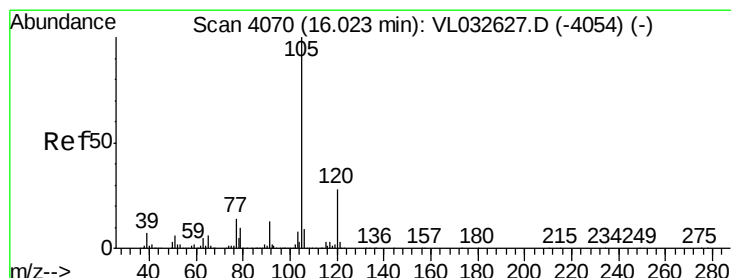
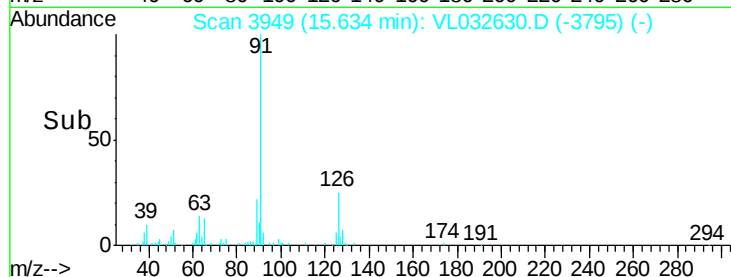
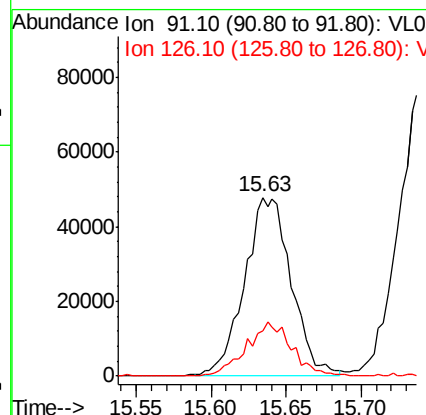
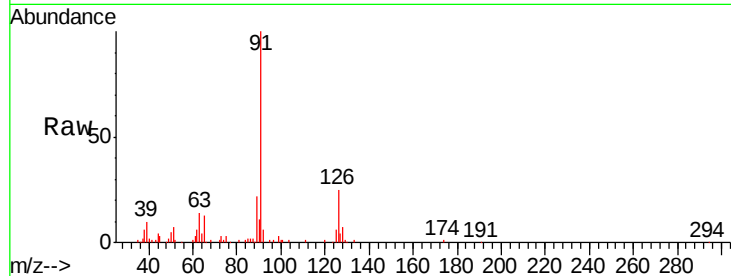
#71
 2-Chlorotoluene
 Concen: 0.39 ppbv m
 RT: 15.63 min Scan# 3949
 Delta R.T. -0.01 min
 Lab File: VL032630.D
 Acq: 17 Oct 2018 4:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion: 91 Resp: 103620
 Ion Ratio Lower Upper
 91 100
 126 0.0 11.8 47.4#

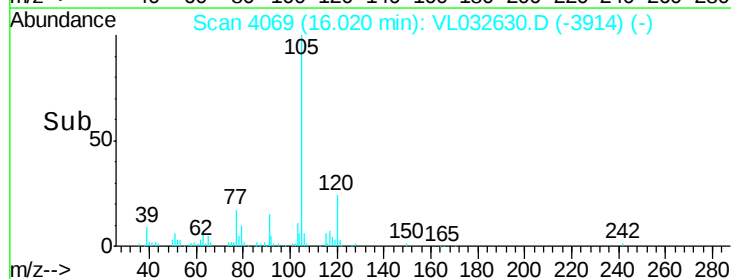
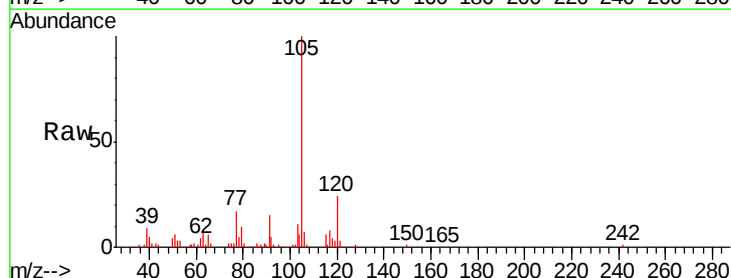
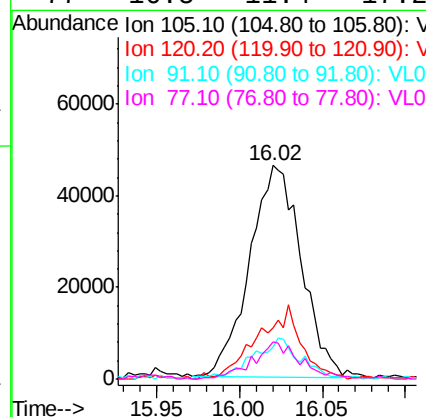
Manual Integrations
 APPROVED

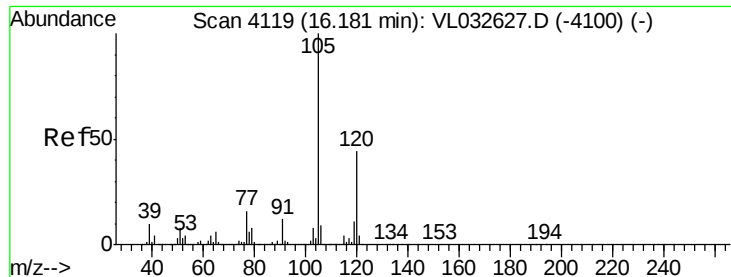
MMDadoda
 10/19/2018 4:36:26 PM



#72
 4-Ethyltoluene
 Concen: 0.36 ppbv
 RT: 16.02 min Scan# 4069
 Delta R.T. -0.00 min
 Lab File: VL032630.D
 Acq: 17 Oct 2018 4:41

Tgt Ion: 105 Resp: 99867
 Ion Ratio Lower Upper
 105 100
 120 31.0 23.7 35.5
 91 18.1 10.4 15.6#
 77 16.5 11.4 17.2





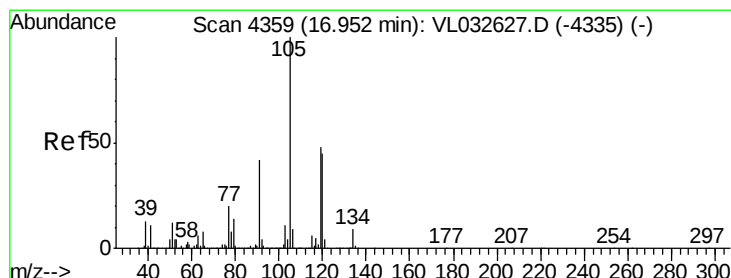
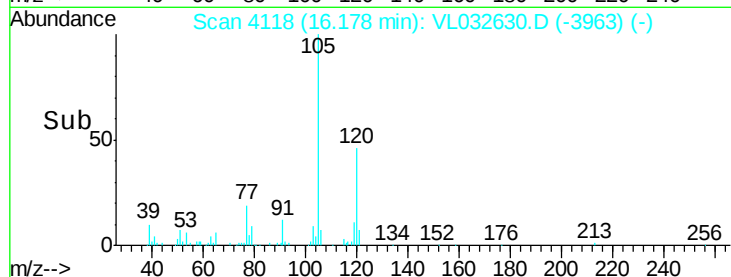
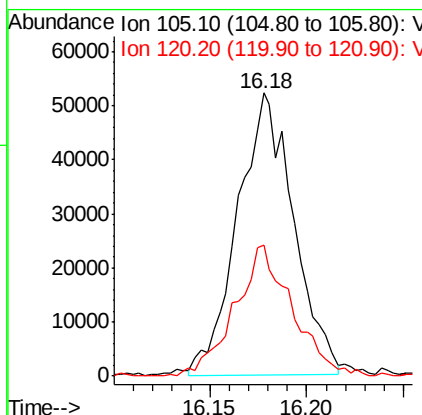
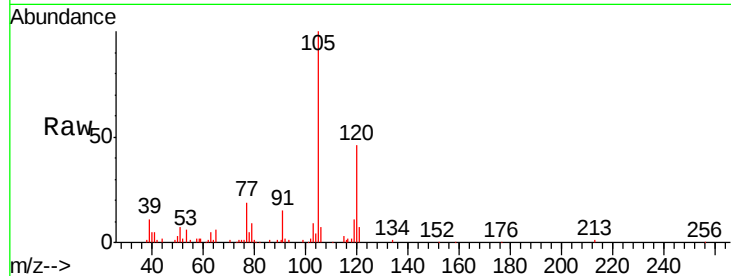
#73
 1,3,5-Trimethylbenzene
 Concen: 0.38 ppbv
 RT: 16.18 min Scan# 4118
 Delta R.T. -0.00 min
 Lab File: VL032630.D
 Acq: 17 Oct 2018 4:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.0	35.4	53.2

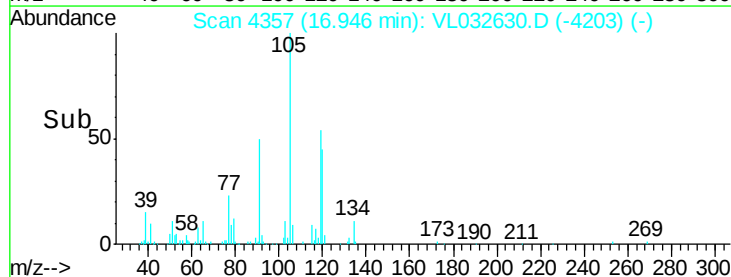
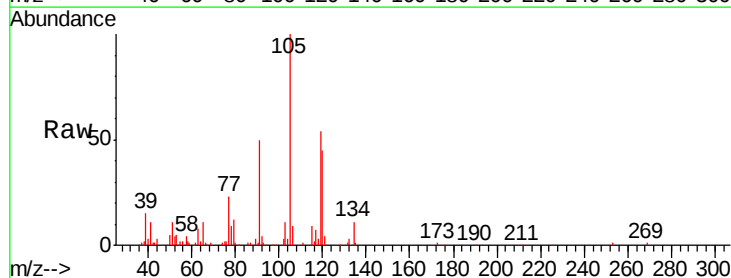
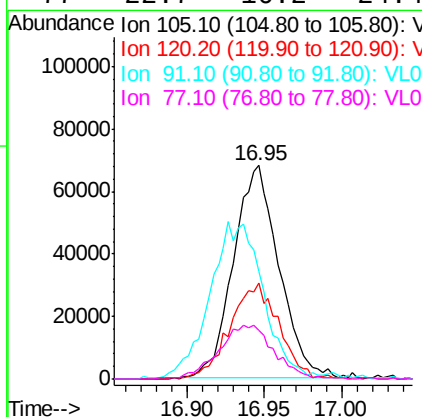
Manual Integrations
 APPROVED

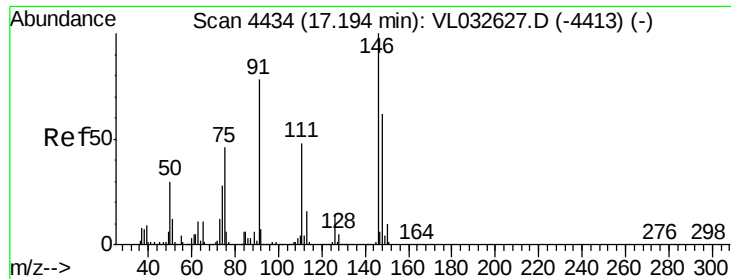
MMDadoda
 10/19/2018 4:36:26 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.46 ppbv
 RT: 16.95 min Scan# 4357
 Delta R.T. -0.01 min
 Lab File: VL032630.D
 Acq: 17 Oct 2018 4:41

Tgt Ion	Ratio	Lower	Upper
105	100		
120	49.2	35.8	53.8
91	49.0	33.2	49.8
77	22.7	16.2	24.4





#75

1,3-Dichlorobenzene

Concen: 0.52 ppbv

RT: 17.18 min Scan# 4431

Delta R.T. -0.01 min

Lab File: VL032630.D

Acq: 17 Oct 2018 4:41

Instrument :

MSVOA_L

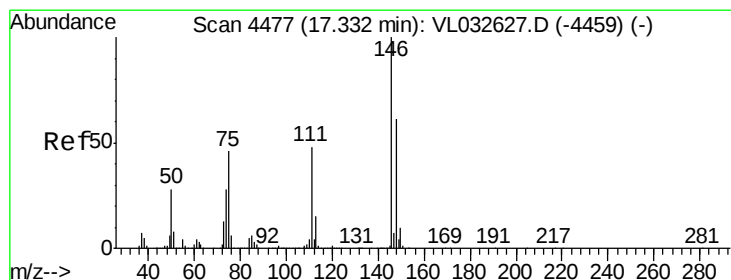
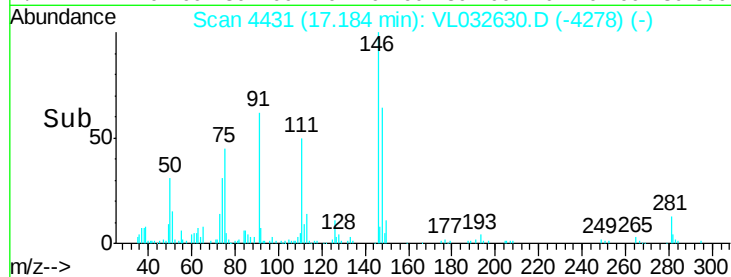
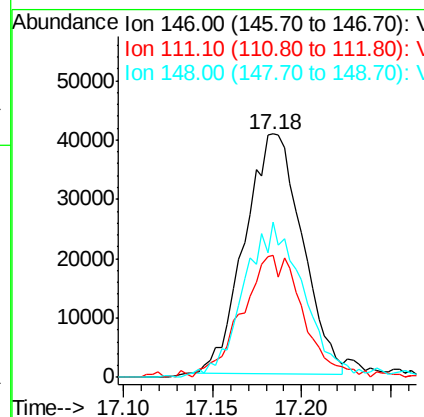
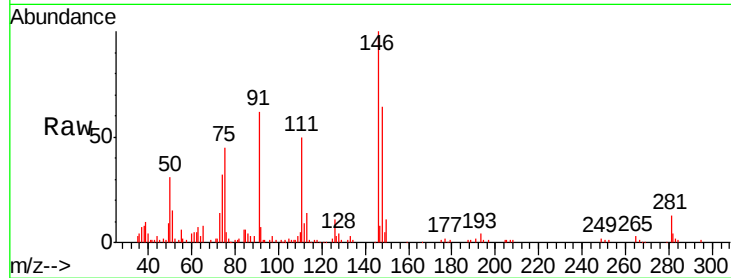
ClientSampleId :

VSTDIC0.5

Tgt Ion:	146	Resp:	90656
Ion Ratio	Lower	Upper	
146	100		
111	55.5	24.4	73.2
148	68.8	31.9	95.9

Manual Integrations
APPROVED

MMDadoda
10/19/2018 4:36:26 PM



#76

1,4-Dichlorobenzene

Concen: 0.48 ppbv m

RT: 17.32 min Scan# 4474

Delta R.T. -0.01 min

Lab File: VL032630.D

Acq: 17 Oct 2018 4:41

Tgt Ion:	146	Resp:	75834
Ion Ratio	Lower	Upper	
146	100		
111	0.0	23.7	71.1#
148	66.8	32.1	96.3

