

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111418\
 Data File : VL032748.D
 Acq On : 14 Nov 2018 6:16
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 11/16/2018 1:30:30 PM

Quant Time: Nov 14 06:58:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 06:58:01 2018
 QLast Update : Wed Nov 14 05:38:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1618033	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	4142139	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	4226238	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	3018401	9.48	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.08	85	2975549	16.123	ppbv 98
3) Chlorodifluoromethane	3.02	51	1689876	13.205	ppbv 100
4) Chloromethane	3.18	50	930361	13.081	ppbv 98
5) Vinyl Chloride	3.30	62	970724	12.617	ppbv 97
6) Bromomethane	3.52	94	632855	13.087	ppbv 93
7) Chloroethane	3.61	64	361951	12.728	ppbv 97
8) Dichlorotetrafluoroethane	3.23	85	2306022	13.084	ppbv 99
9) Propene	3.04	41	708049	13.599	ppbv 99
10) Heptane	8.26	43	2918712	14.444	ppbv 98
11) Trichlorofluoromethane	4.01	101	2567084	11.721	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.56	101	2610172	14.747	ppbv 99
13) Ethanol	3.66	45	172147	11.701	ppbv 100
14) Bromoethene	3.80	108	807247	13.256	ppbv 98
15) Acetone	3.91	43	1645697	10.941	ppbv 100
16) 1,3-Butadiene	3.37	39	729877	12.800	ppbv 84
17) tert-Butyl alcohol	4.37	59	586933	13.813	ppbv 100
18) 1,1-Dichloroethene	4.36	96	1144287	14.330	ppbv 98
19) Isopropyl Alcohol	4.03	45	1129528	10.772	ppbv 99
20) Methylene Chloride	4.42	84	974244	12.731	ppbv 98
21) Allyl Chloride	4.49	41	1876288	15.592	ppbv 99
22) trans-1,2-Dichloroethene	4.97	96	1159827	14.120	ppbv 98
23) Vinyl Acetate	5.17	43	3872283	14.267	ppbv 100
24) 1,1-Dichloroethane	5.10	63	2642187	12.377	ppbv 100
25) Ethyl Acetate	5.78	43	4675938	13.583	ppbv 100
26) Hexane	5.79	57	2138152	13.192	ppbv 99
27) Carbon Disulfide	4.63	76	2751050	14.150	ppbv 100
28) Methyl tert-Butyl Ether	5.12	73	3205577	13.334	ppbv 99
29) Chloroform	5.86	83	3602899	13.740	ppbv 98
30) Cyclohexane	7.26	84	1982751	15.249	ppbv 99
31) cis-1,2-Dichloroethene	5.65	61	2329328	15.388	ppbv 99
32) 1,1,1-Trichloroethane	6.63	97	3894223	14.487	ppbv 100
34) 2-Butanone	5.34	43	3021619	13.592	ppbv 100
35) Carbon Tetrachloride	7.15	117	4180171	14.082	ppbv 98
36) Benzene	7.02	78	4672406	13.962	ppbv 99
37) 1,2-Dichloroethane	6.43	62	3003266	14.439	ppbv 99
38) Trichloroethene	7.98	130	1863021	14.865	ppbv 96
39) 1,2-Dichloropropane	7.75	63	1791628	13.870	ppbv 97
40) 1,4-Dioxane	7.97	88	660469	15.028	ppbv # 1
41) Tetrahydrofuran	6.16	42	1873639	15.225	ppbv 99
42) Bromodichloromethane	7.93	83	4182193	14.386	ppbv 100
43) Methyl Methacrylate	8.15	69	1928285	15.681	ppbv 99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111418\
 Data File : VL032748.D
 Acq On : 14 Nov 2018 6:16
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

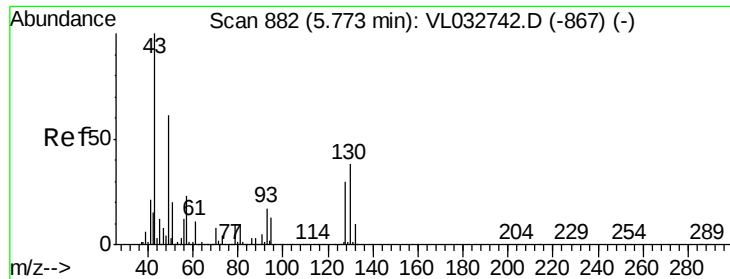
Manual Integrations
 APPROVED

MMDadoda
 11/16/2018 1:30:30 PM

Quant Time: Nov 14 06:58:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 06:58:01 2018
 QLast Update : Wed Nov 14 05:38:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	7760567	13.574	ppbv	99
45) t-1,3-Dichloropropene	9.43	75	2900955	17.618	ppbv	99
46) cis-1,3-Dichloropropene	8.85	75	3263888	17.068	ppbv	96
47) 1,1,2-Trichloroethane	9.63	97	2124257	13.916	ppbv	99
48) Dibromochloromethane	10.47	129	3652289	14.204	ppbv	99
49) Bromoform	13.21	173	3042631	15.070	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	4971946	14.948	ppbv	100
51) 2-Hexanone	10.28	43	3435732	14.352	ppbv #	100
52) Tetrachloroethene	11.38	164	1660685	14.162	ppbv	97
53) Toluene	9.96	91	5482112	14.493	ppbv	100
54) 1,2-Dibromoethane	10.78	107	3061096	14.910	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.29	131	2458749	13.097	ppbv	95
57) Chlorobenzene	12.32	112	4099481	13.038	ppbv	99
58) Ethyl Benzene	12.88	91	7352630	14.822	ppbv	99
59) m/p-Xylene	13.16	91	12211619m	27.662	ppbv	
60) o-Xylene	13.86	91	5972381	13.929	ppbv	99
61) Styrene	13.70	104	4581499	15.970	ppbv	100
62) Isopropylbenzene	14.84	105	8413753	13.891	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.85	83	4129951	12.390	ppbv	99
64) n-propylbenzene	15.73	120	2275404	15.002	ppbv	95
65) tert-Butylbenzene	16.92	119	7257376	13.902	ppbv	99
66) Benzyl Chloride	17.17	91	4839416	17.753	ppbv	100
67) sec-Butylbenzene	17.47	105	10678566	14.407	ppbv	99
69) p-Isopropyltoluene	17.83	119	8826004	14.993	ppbv	100
70) n-Butylbenzene	18.73	91	8874105	14.697	ppbv	99
71) 2-Chlorotoluene	15.63	91	6625413	15.230	ppbv	99
72) 4-Ethyltoluene	16.01	105	7269890	15.750	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	6824834	15.170	ppbv	99
74) 1,2,4-Trimethylbenzene	16.94	105	6587090	13.730	ppbv #	92
75) 1,3-Dichlorobenzene	17.18	146	3875915	14.024	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	3878171	15.173	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	3754650	14.398	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1651389m	12.498	ppbv	
79) Naphthalene	22.42	128	5581685	18.495	ppbv	100
80) Naphthalene, 2-methyl-	25.12	142	1871204	25.902	ppbv	99
81) 1,2,4-Trichlorobenzene	22.15	180	2668934	17.293	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.78 min Scan# 883

Delta R.T. 0.00 min

Lab File: VL032748.D

Acq: 14 Nov 2018 6:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 49 Resp: 1618033

Ion Ratio Lower Upper

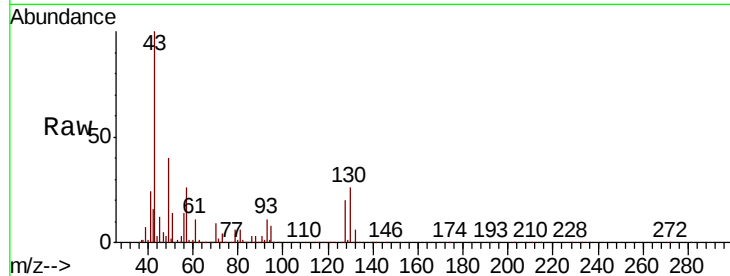
49 100

128 49.1 24.9 74.6

130 63.2 31.4 94.2

Manual Integrations
APPROVED

MMDadoda
11/16/2018 1:30:30 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

5.78

800000

600000

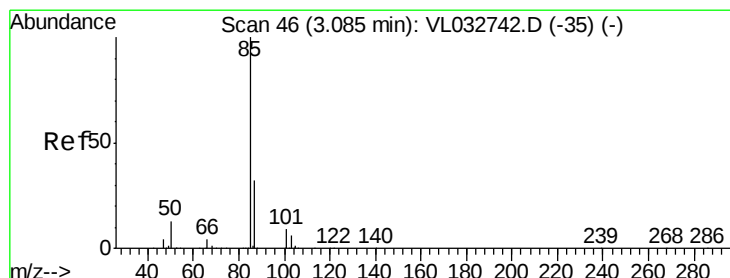
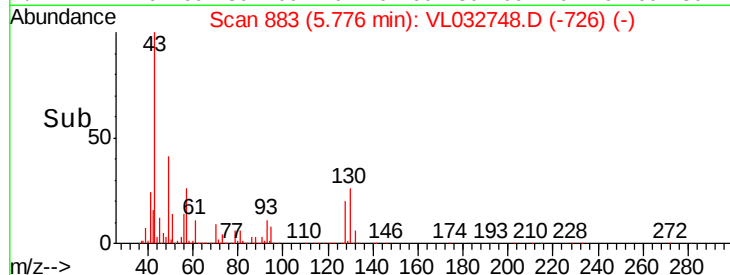
400000

200000

0

5.70 5.75 5.80 5.85

Time-->



#2

Dichlorodifluoromethane

Concen: 16.123 ppbv

RT: 3.08 min Scan# 46

Delta R.T. -0.00 min

Lab File: VL032748.D

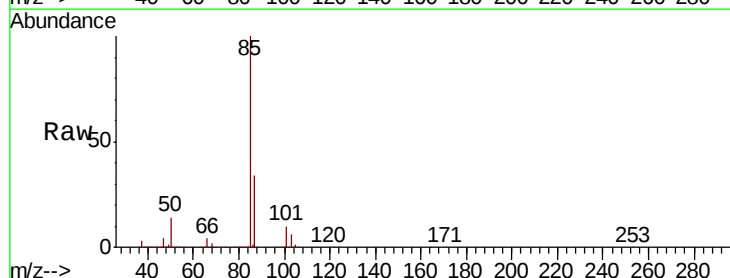
Acq: 14 Nov 2018 6:16

Tgt Ion: 85 Resp: 2975549

Ion Ratio Lower Upper

85 100

87 33.7 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.08

2500000

2000000

1500000

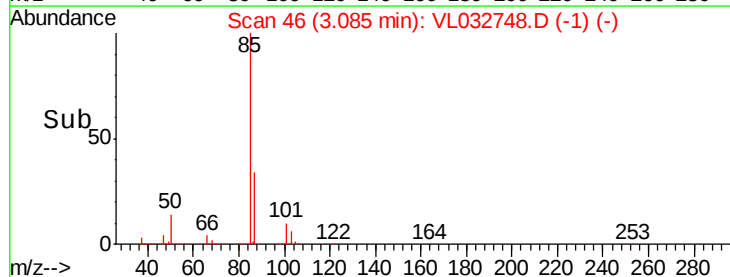
1000000

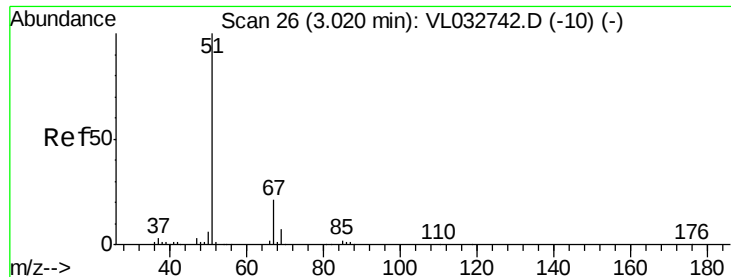
500000

0

3.05 3.10 3.15

Time-->





#3

Chlorodifluoromethane

Concen: 13.205 ppbv

RT: 3.02 min Scan# 26

Delta R.T. -0.00 min

Lab File: VL032748.D

Acq: 14 Nov 2018 6:16

Tot Ion: 51 Resp: 1689876

Ion Ratio Lower Upper

51 100

67 20.2 16.1 24.1

Instrument :

MSVOA_L

ClientSampleId :

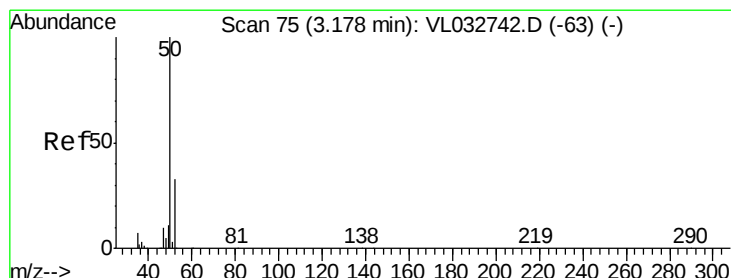
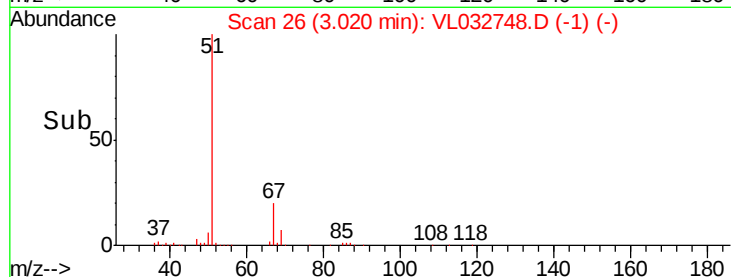
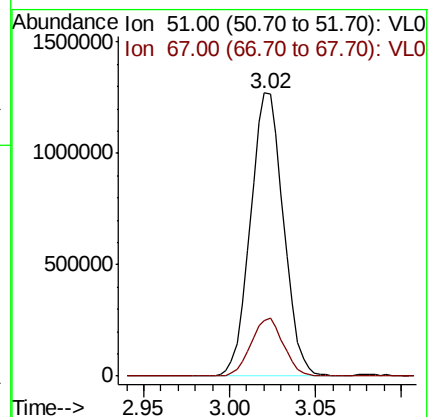
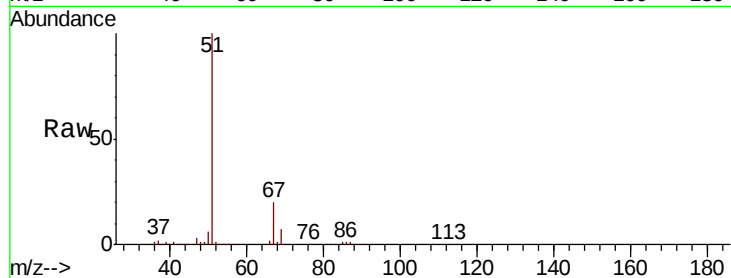
VSTDIC015

Manual Integrations

APPROVED

MMDadoda

11/16/2018 1:30:30 PM



#4

Chloromethane

Concen: 13.081 ppbv

RT: 3.18 min Scan# 75

Delta R.T. -0.00 min

Lab File: VL032748.D

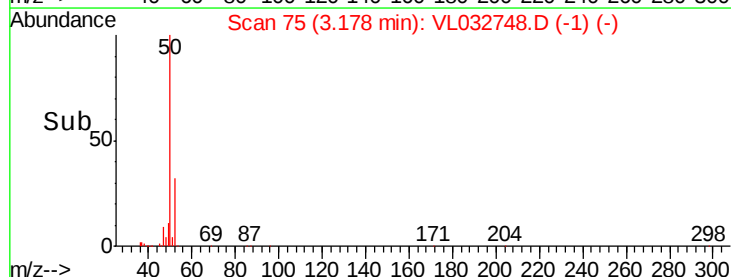
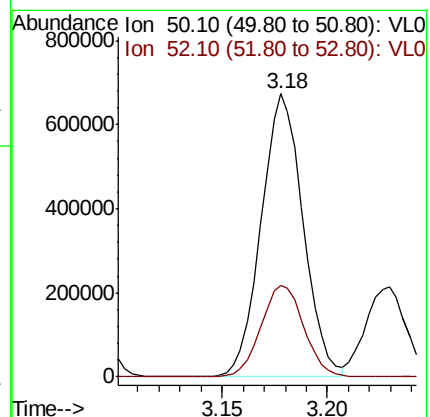
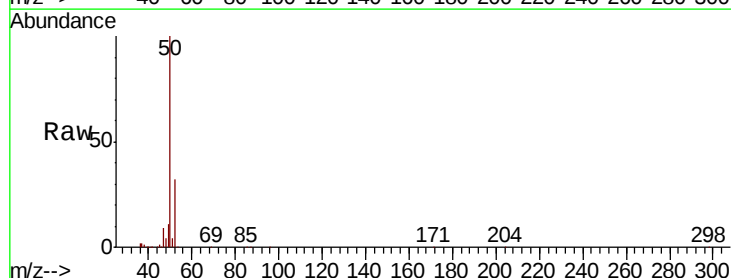
Acq: 14 Nov 2018 6:16

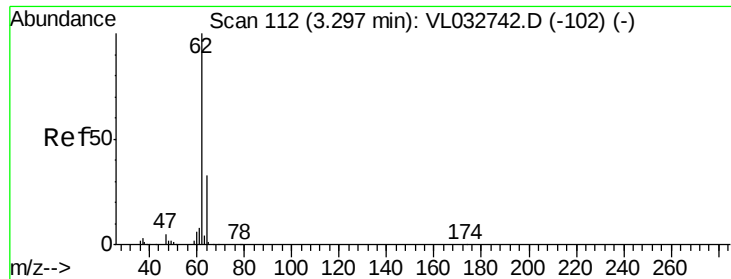
Tgt Ion: 50 Resp: 930361

Ion Ratio Lower Upper

50 100

52 32.1 26.6 40.0





#5

Vinyl Chloride

Concen: 12.617 ppbv

RT: 3.30 min Scan# 113

Delta R.T. 0.00 min

Lab File: VL032748.D

Acq: 14 Nov 2018 6:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 970724

Ion Ratio Lower Upper

62 100

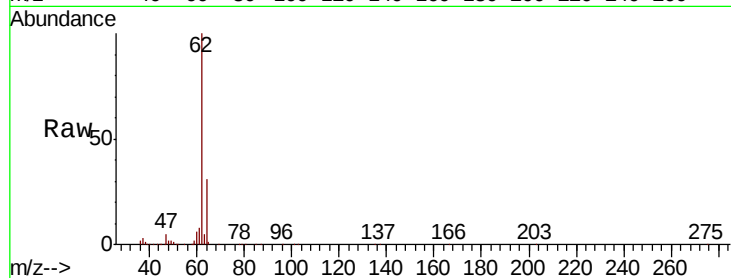
64 31.3 26.2 39.4

Manual Integrations

APPROVED

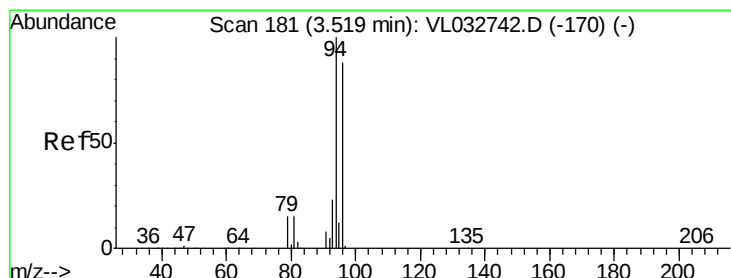
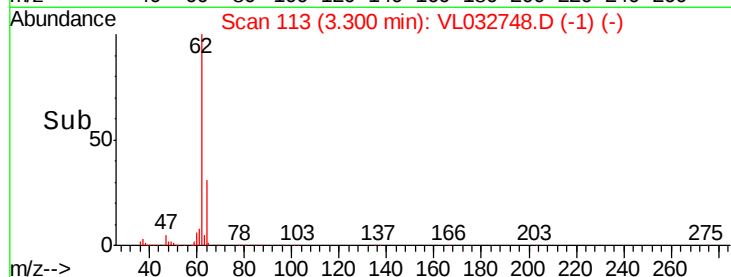
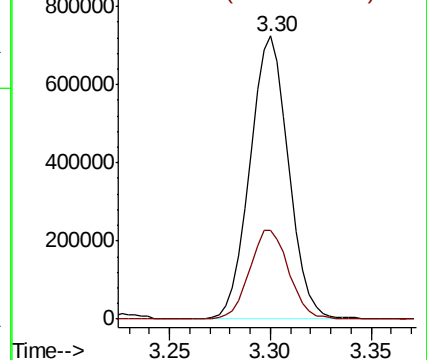
MMDadoda

11/16/2018 1:30:30 PM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 13.087 ppbv

RT: 3.52 min Scan# 182

Delta R.T. 0.00 min

Lab File: VL032748.D

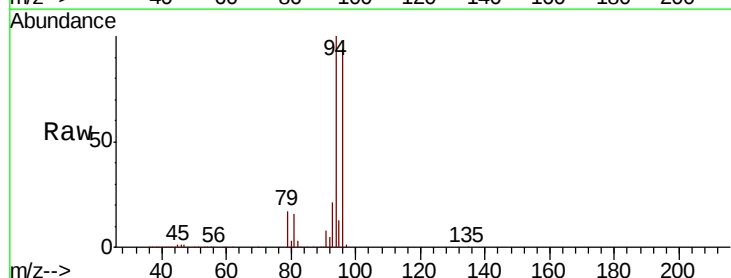
Acq: 14 Nov 2018 6:16

Tgt Ion: 94 Resp: 632855

Ion Ratio Lower Upper

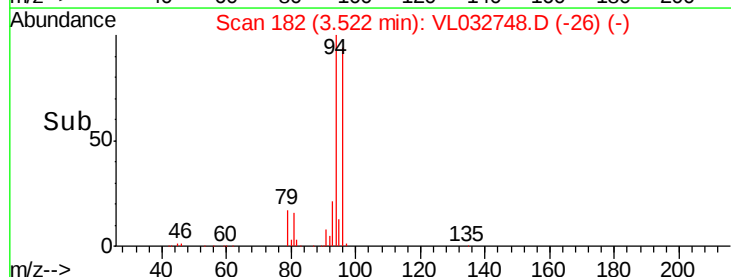
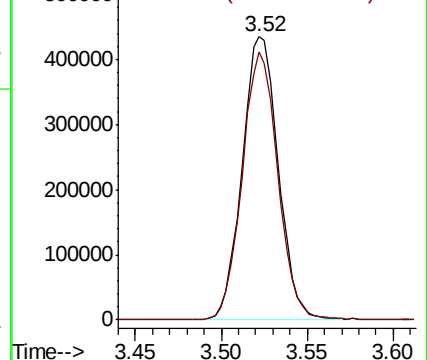
94 100

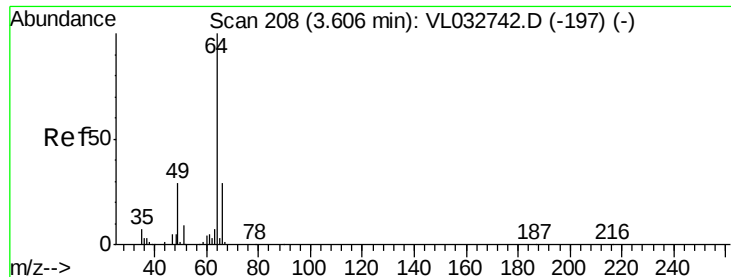
96 94.5 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 12.728 ppbv

RT: 3.61 min Scan# 209

Delta R.T. 0.00 min

Lab File: VL032748.D

Acq: 14 Nov 2018 6:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 361951

Ion Ratio Lower Upper

64 100

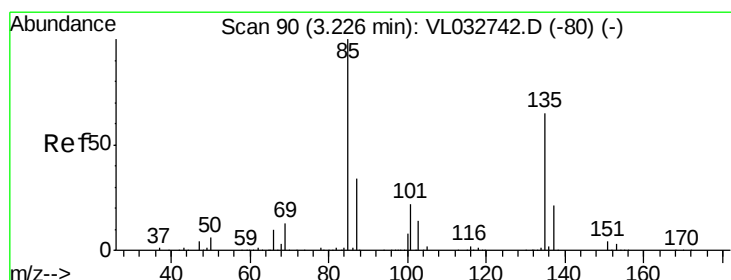
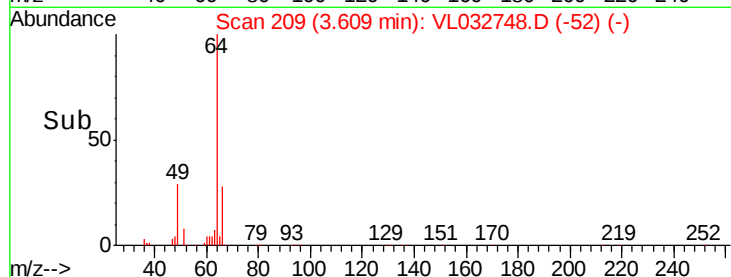
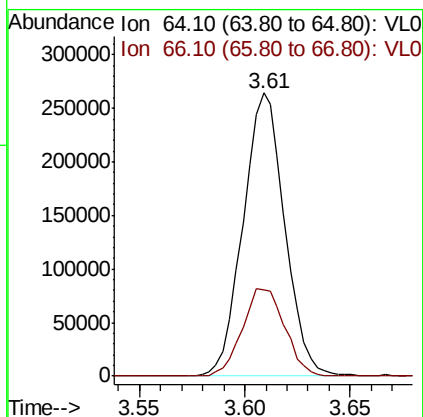
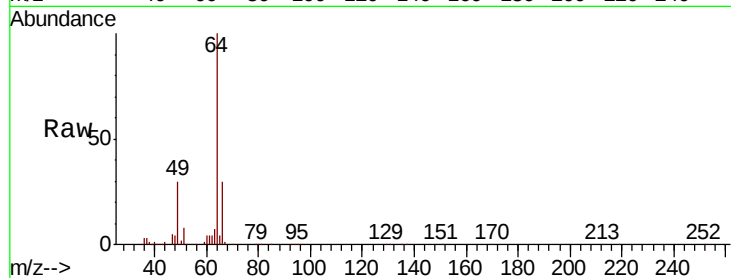
66 30.4 23.2 34.8

Manual Integrations

APPROVED

MMDadoda

11/16/2018 1:30:30 PM



#8

Dichlorotetrafluoroethane

Concen: 13.084 ppbv

RT: 3.23 min Scan# 90

Delta R.T. -0.00 min

Lab File: VL032748.D

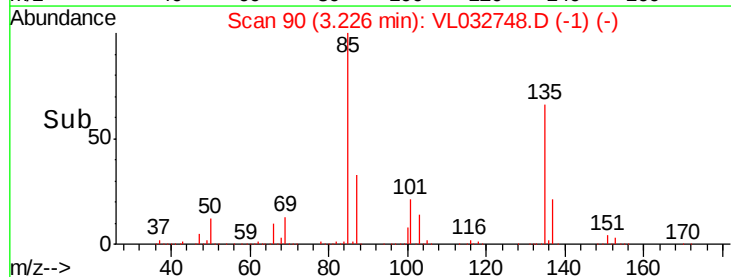
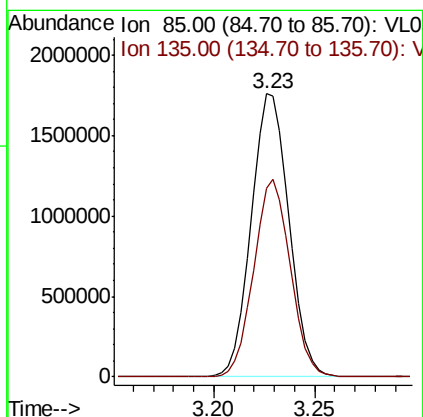
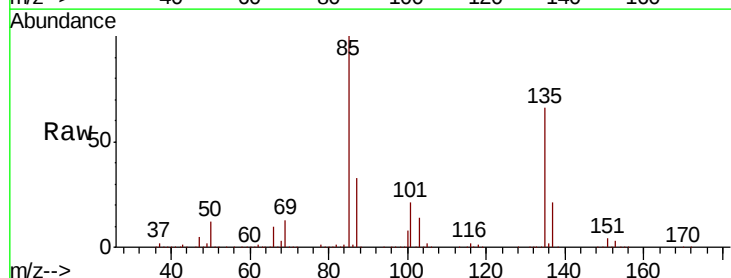
Acq: 14 Nov 2018 6:16

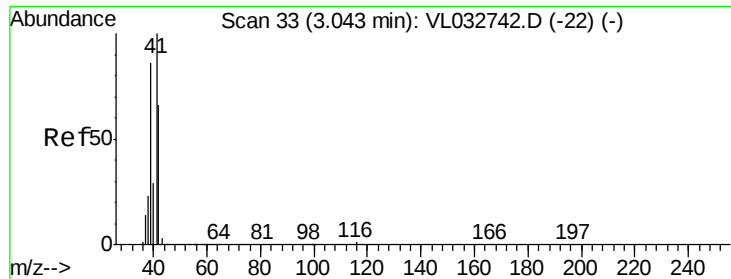
Tgt Ion: 85 Resp: 2306022

Ion Ratio Lower Upper

85 100

135 68.1 53.8 80.8





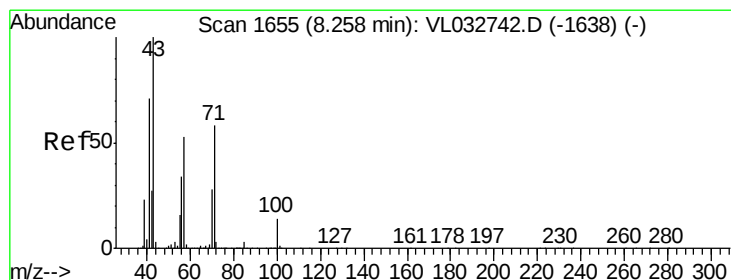
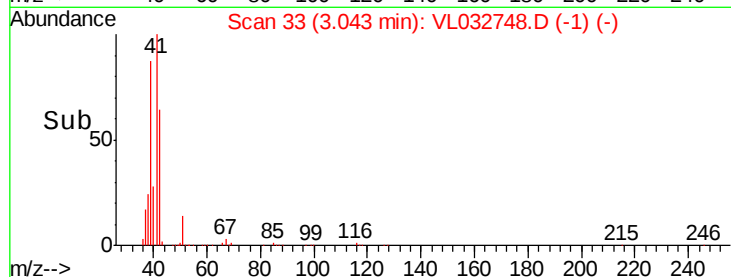
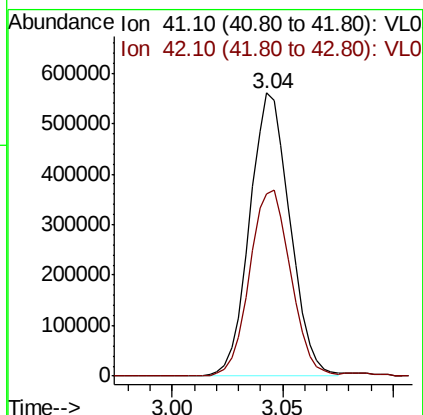
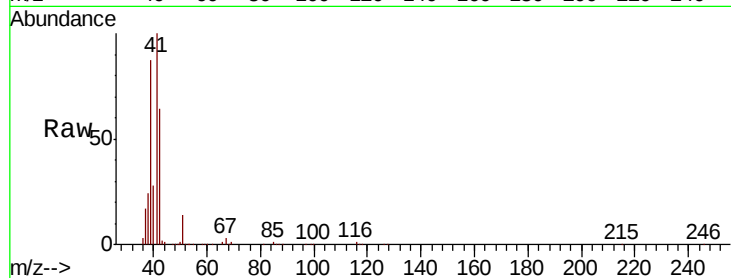
#9
 Propene
 Concen: 13.599 ppbv
 RT: 3.04 min Scan# 33
 Delta R.T. -0.00 min
 Lab File: VL032748.D
 Acq: 14 Nov 2018 6:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 41 Resp: 708049
 Ion Ratio Lower Upper
 41 100
 42 68.1 55.0 82.6

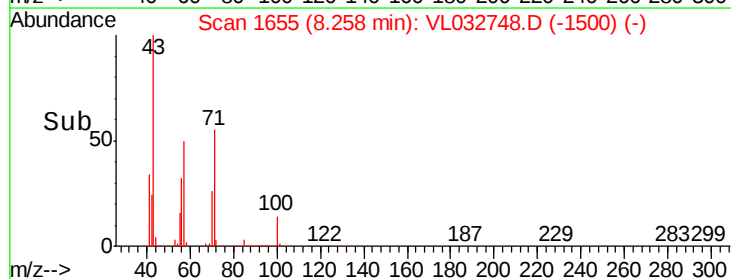
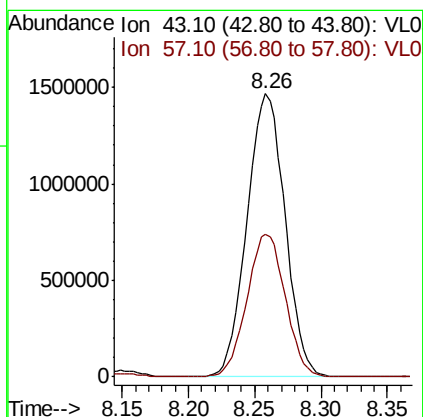
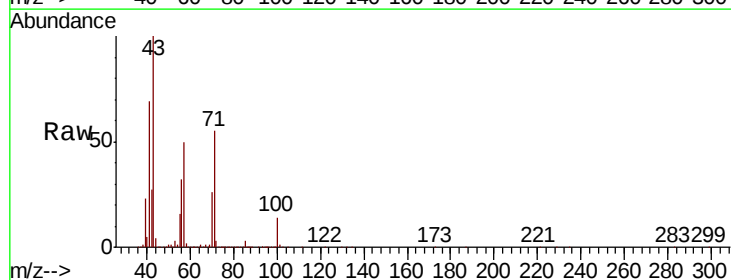
Manual Integrations
 APPROVED

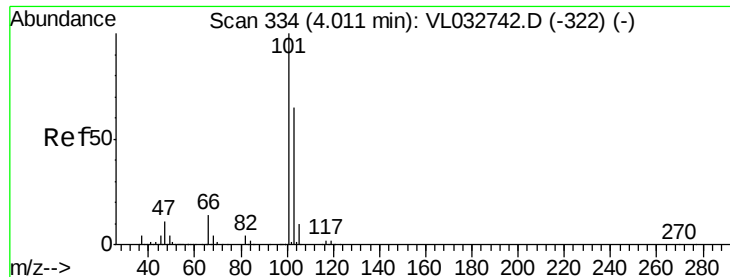
MMDadoda
 11/16/2018 1:30:30 PM



#10
 Heptane
 Concen: 14.444 ppbv
 RT: 8.26 min Scan# 1655
 Delta R.T. -0.00 min
 Lab File: VL032748.D
 Acq: 14 Nov 2018 6:16

Tgt Ion: 43 Resp: 2918712
 Ion Ratio Lower Upper
 43 100
 57 50.9 41.8 62.8





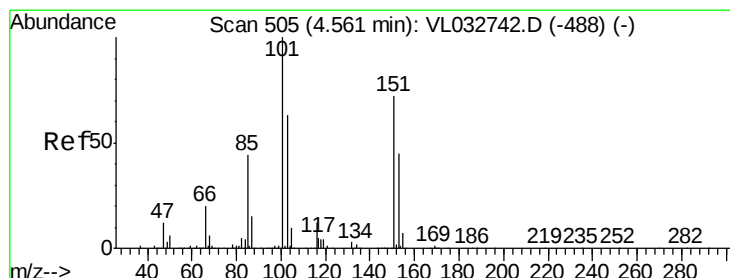
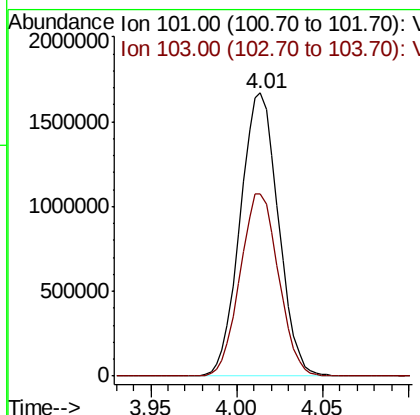
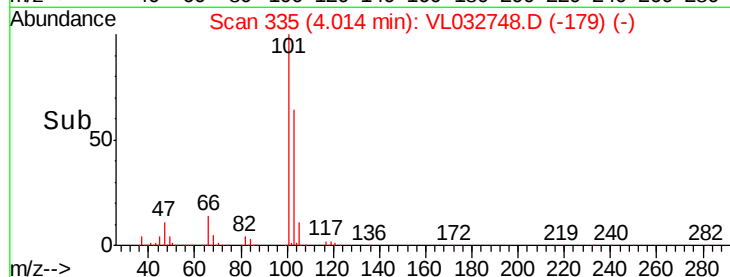
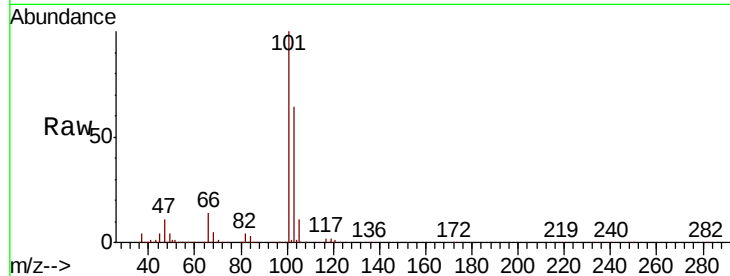
#11
 Trichlorofluoromethane
 Concen: 11.721 ppbv
 RT: 4.01 min Scan# 335
 Delta R.T. 0.00 min
 Lab File: VL032748.D
 Acq: 14 Nov 2018 6:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:101 Resp: 2567084
 Ion Ratio Lower Upper
 101 100
 103 64.4 51.6 77.4

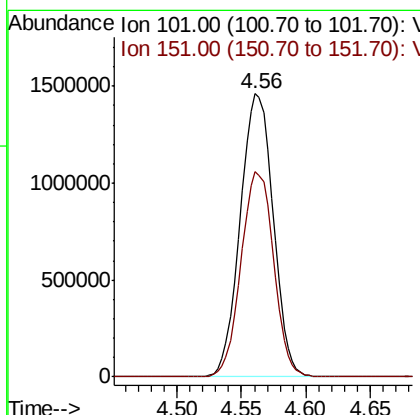
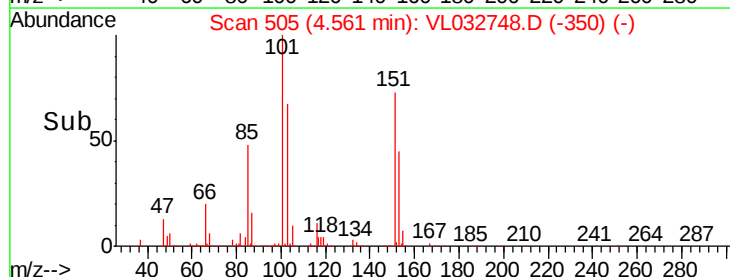
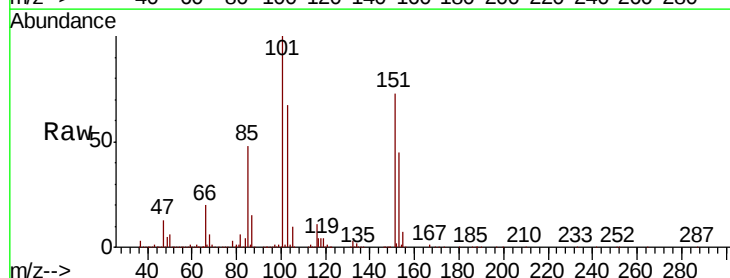
Manual Integrations
 APPROVED

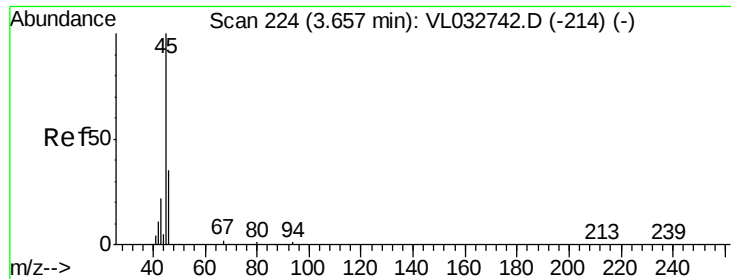
MMDadoda
 11/16/2018 1:30:30 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 14.747 ppbv
 RT: 4.56 min Scan# 505
 Delta R.T. -0.00 min
 Lab File: VL032748.D
 Acq: 14 Nov 2018 6:16

Tgt Ion:101 Resp: 2610172
 Ion Ratio Lower Upper
 101 100
 151 71.6 56.7 85.1





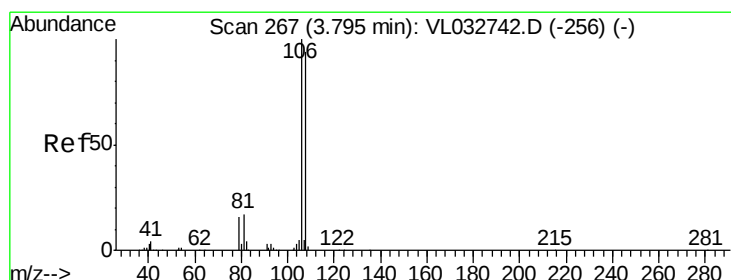
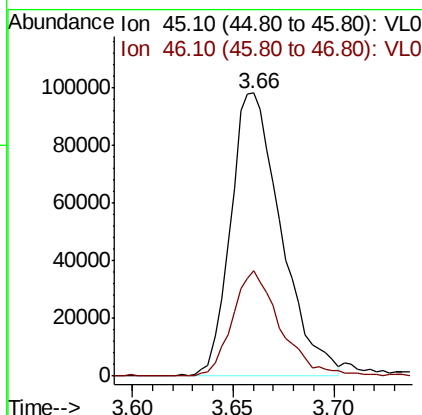
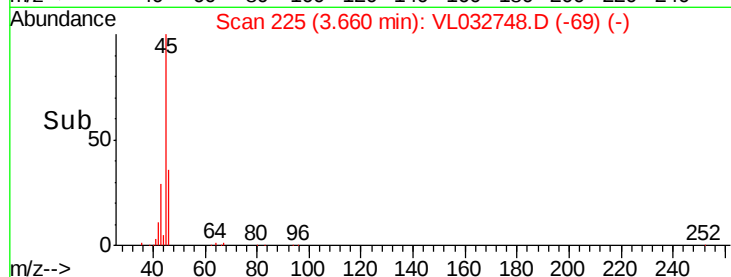
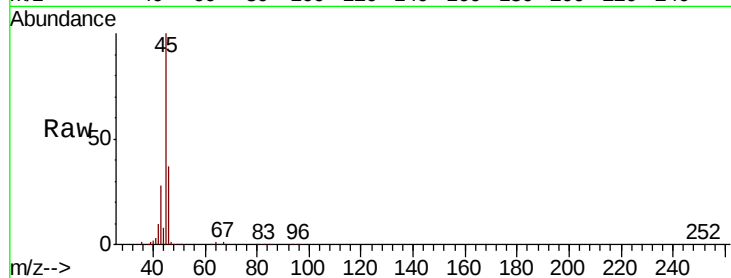
#13
Ethanol
Concen: 11.701 ppbv
RT: 3.66 min Scan# 225
Delta R.T. 0.00 min
Lab File: VL032748.D
Acq: 14 Nov 2018 6:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 45 Resp: 172147
Ion Ratio Lower Upper
45 100
46 36.2 14.5 57.9

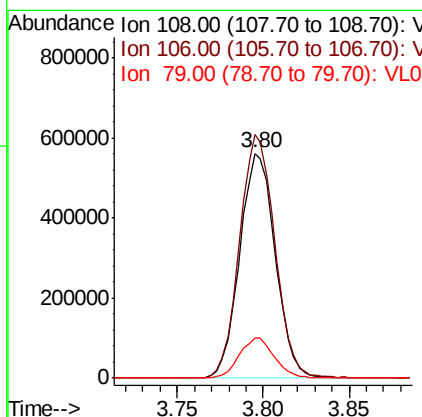
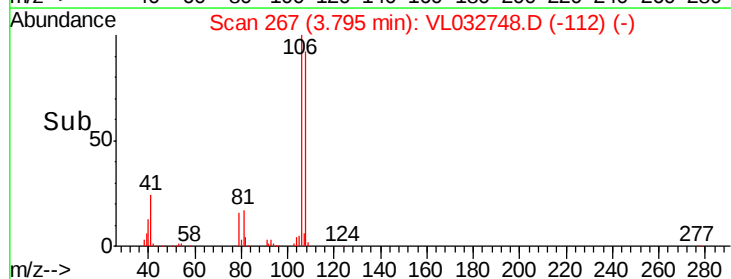
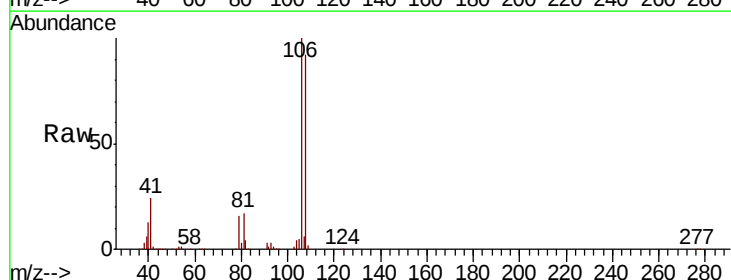
Manual Integrations
APPROVED

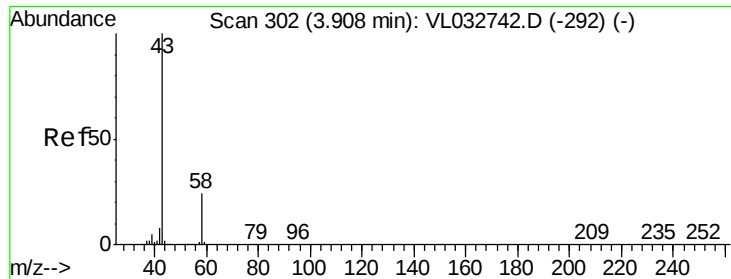
MMDadoda
11/16/2018 1:30:30 PM



#14
Bromoethene
Concen: 13.256 ppbv
RT: 3.80 min Scan# 267
Delta R.T. -0.00 min
Lab File: VL032748.D
Acq: 14 Nov 2018 6:16

Tgt Ion: 108 Resp: 807247
Ion Ratio Lower Upper
108 100
106 108.1 84.9 127.3
79 17.8 14.2 21.4





#15

Acetone

Concen: 10.941 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.00 min

Lab File: VL032748.D

Acq: 14 Nov 2018 6:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 1645697

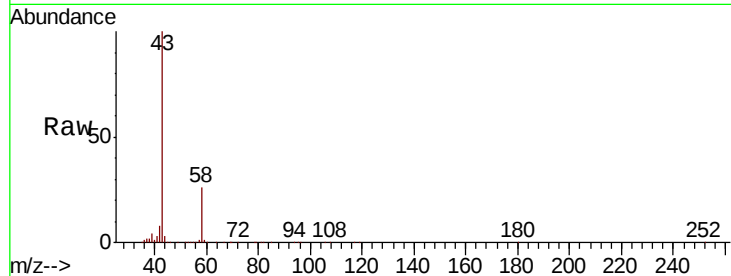
Ion Ratio Lower Upper

43 100

58 26.5 21.1 31.7

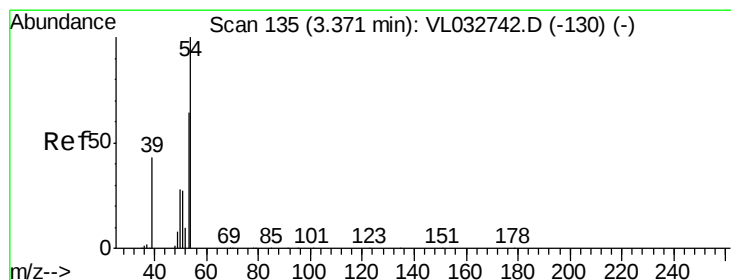
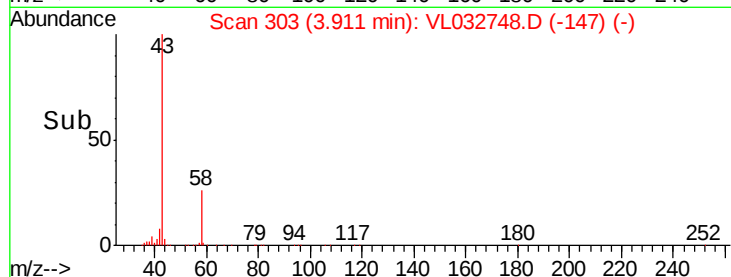
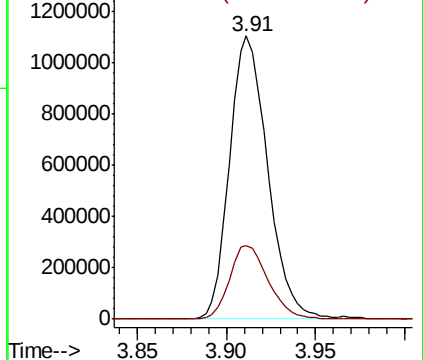
Manual Integrations
APPROVED

MMDadoda
11/16/2018 1:30:30 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 12.800 ppbv

RT: 3.37 min Scan# 135

Delta R.T. -0.00 min

Lab File: VL032748.D

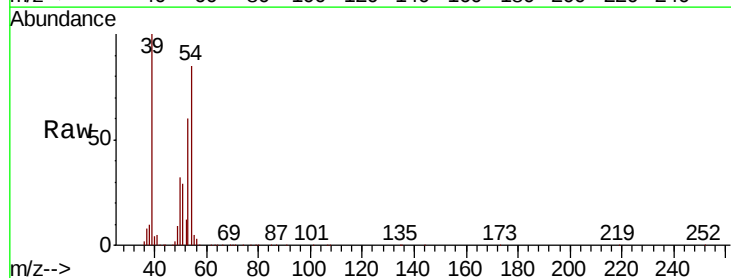
Acq: 14 Nov 2018 6:16

Tgt Ion: 39 Resp: 729877

Ion Ratio Lower Upper

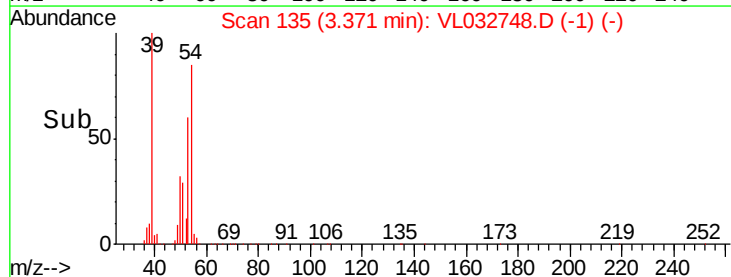
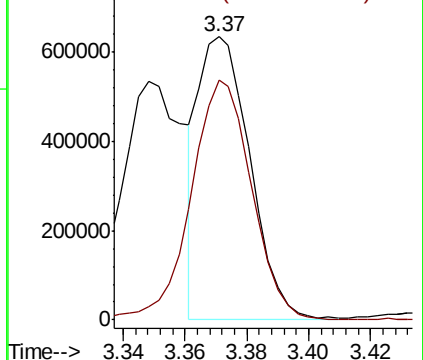
39 100

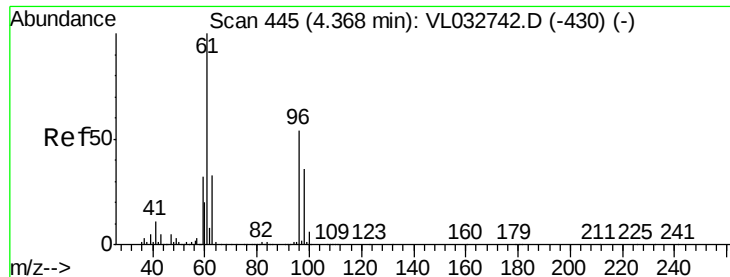
54 101.0 68.9 103.3



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

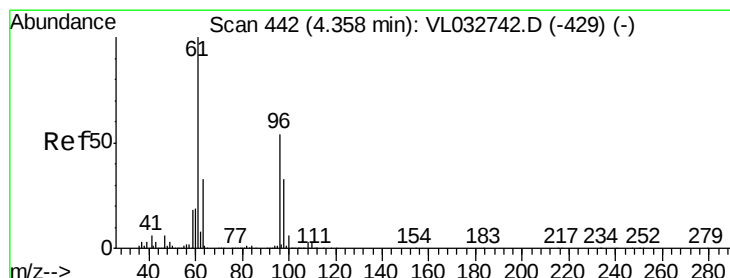
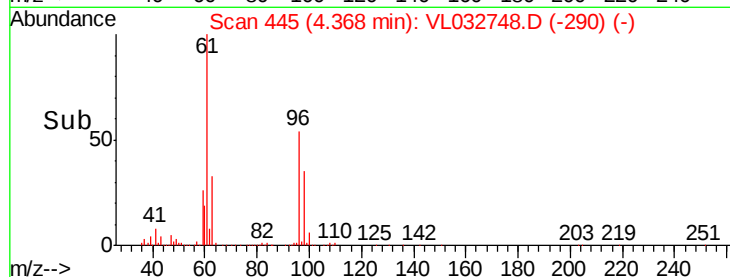
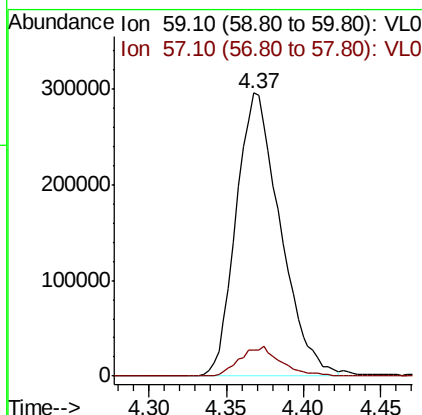
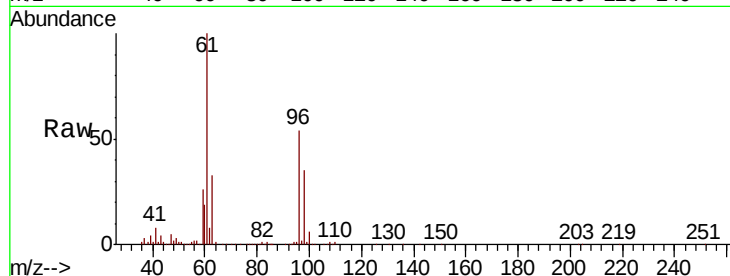
tert-Butyl alcohol
Concen: 13.813 ppbv
RT: 4.37 min Scan# 445
Delta R.T. -0.00 min
Lab File: VL032748.D
Acq: 14 Nov 2018 6:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	59	Ratio	59.10 (58.80 to 59.80): VL0	Resp	586933
Ion	59	100		Lower	Upper
	57	9.8		7.8	11.8

Manual Integrations
APPROVED

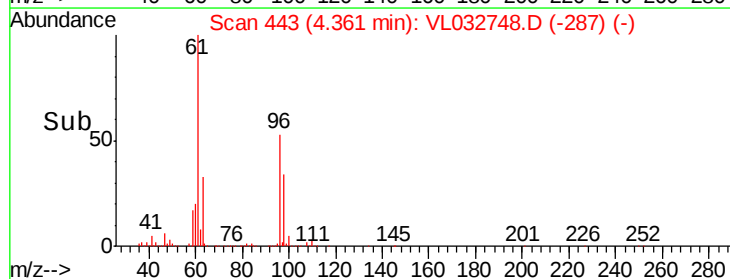
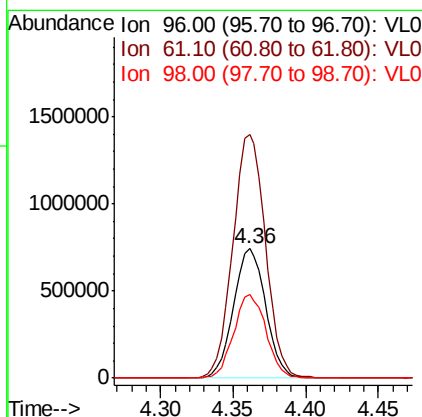
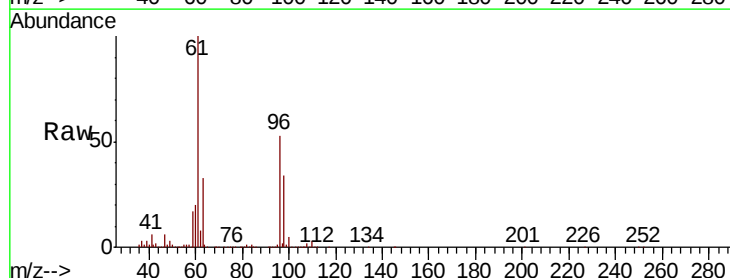
MMDadoda
11/16/2018 1:30:30 PM

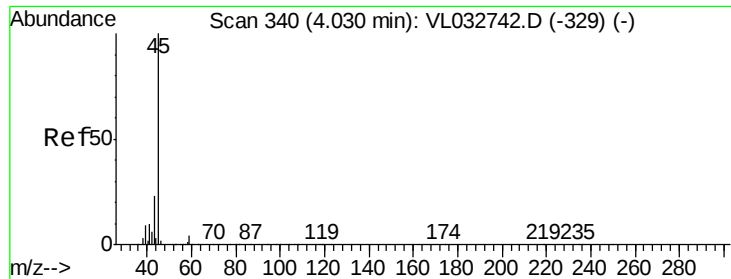


#18

1,1-Dichloroethene
Concen: 14.330 ppbv
RT: 4.36 min Scan# 443
Delta R.T. 0.00 min
Lab File: VL032748.D
Acq: 14 Nov 2018 6:16

Tgt Ion	96	Ratio	96.00 (95.70 to 96.70): VL0	Resp	1144287
Ion	96	100		Lower	Upper
	61	188.0		148.5	222.7
	98	64.1		48.6	72.8





#19

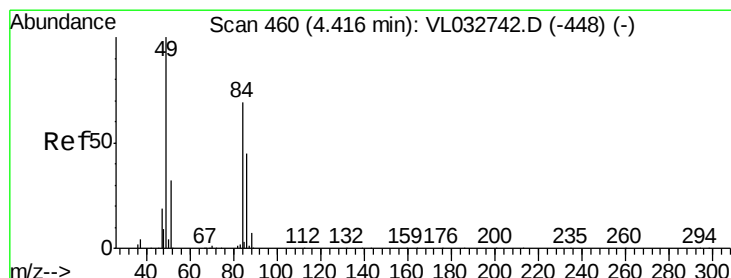
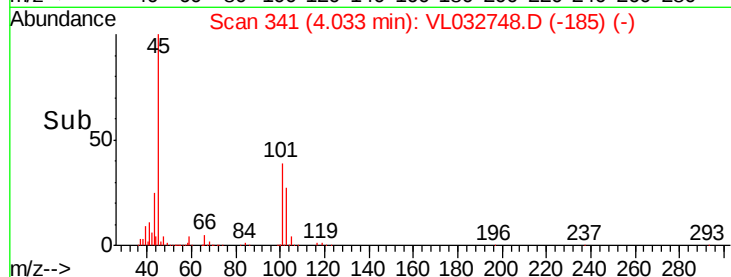
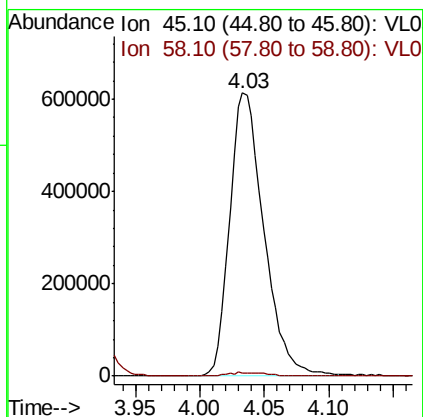
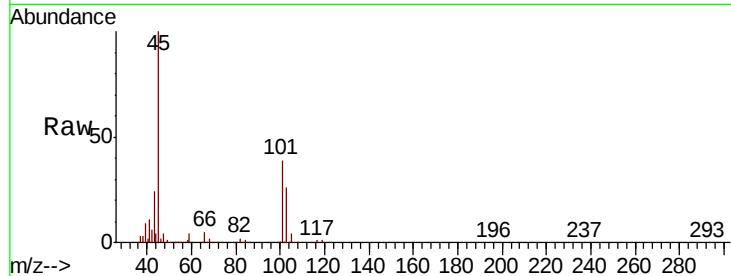
Isopropyl Alcohol
 Concen: 10.772 ppbv
 RT: 4.03 min Scan# 341
 Delta R.T. 0.00 min
 Lab File: VL032748.D
 Acq: 14 Nov 2018 6:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 45 Resp: 1129528
 Ion Ratio Lower Upper
 45 100
 58 1.5 1.4 2.0

Manual Integrations
 APPROVED

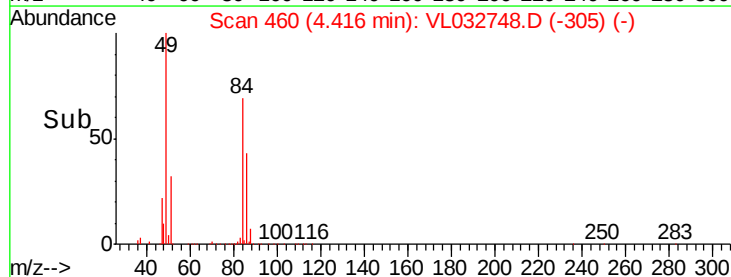
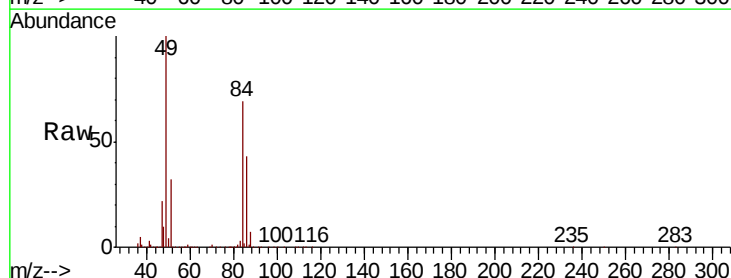
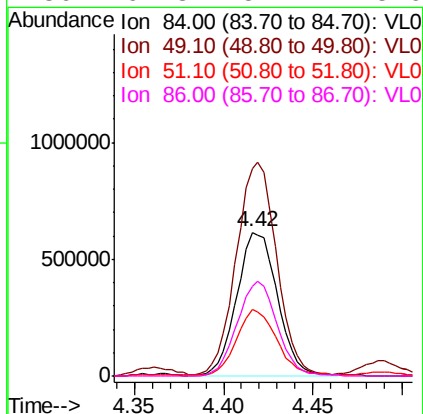
MMDadoda
 11/16/2018 1:30:30 PM

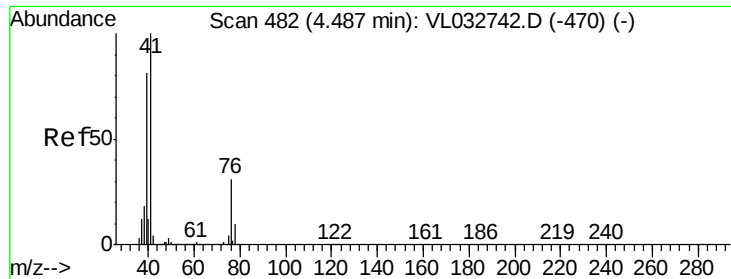


#20

Methylene Chloride
 Concen: 12.731 ppbv
 RT: 4.42 min Scan# 460
 Delta R.T. -0.00 min
 Lab File: VL032748.D
 Acq: 14 Nov 2018 6:16

Tgt Ion: 84 Resp: 974244
 Ion Ratio Lower Upper
 84 100
 49 143.7 115.8 173.6
 51 46.0 36.9 55.3
 86 62.3 52.4 78.6





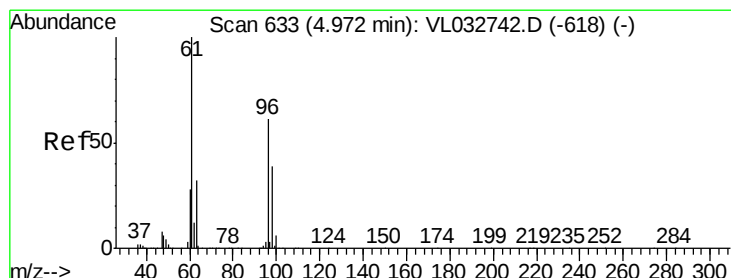
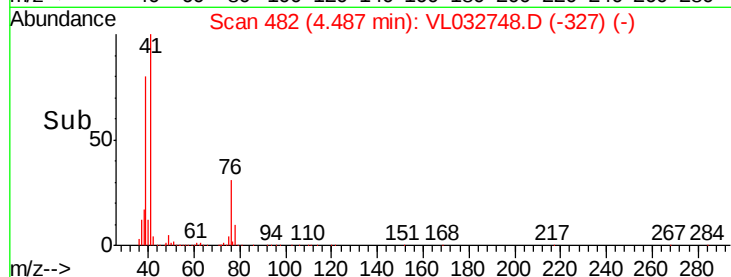
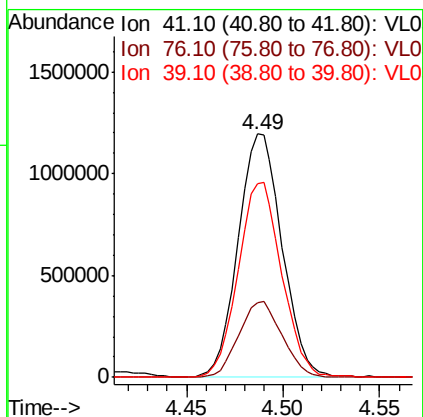
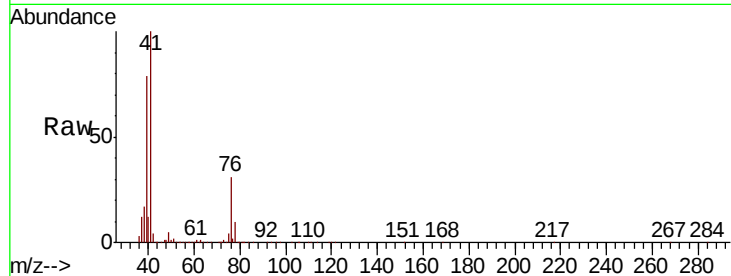
#21
Allvl Chloride
Concen: 15.592 ppbv
RT: 4.49 min Scan# 482
Delta R.T. -0.00 min
Lab File: VL032748.D
Acq: 14 Nov 2018 6:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 41 Resp: 1876288
Ion Ratio Lower Upper
41 100
76 30.9 24.4 36.6
39 79.9 63.5 95.3

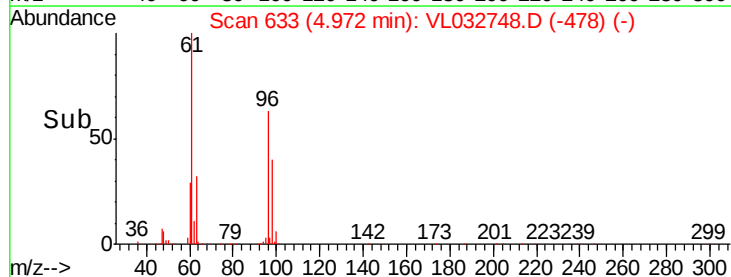
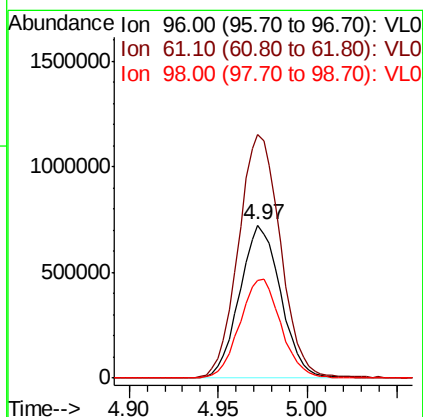
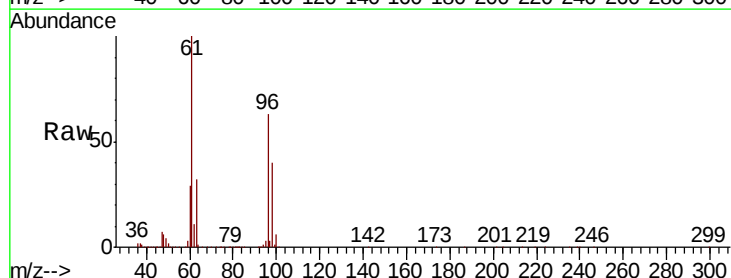
Manual Integrations
APPROVED

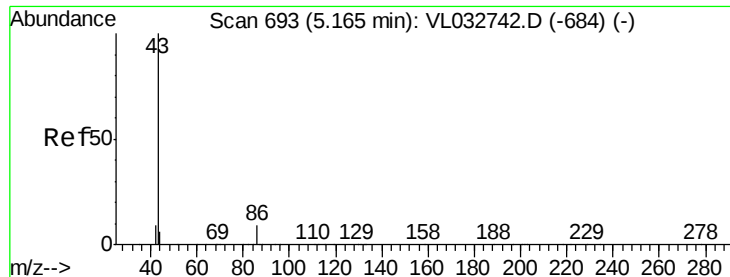
MMDadoda
11/16/2018 1:30:30 PM



#22
trans-1,2-Dichloroethene
Concen: 14.120 ppbv
RT: 4.97 min Scan# 633
Delta R.T. -0.00 min
Lab File: VL032748.D
Acq: 14 Nov 2018 6:16

Tgt Ion: 96 Resp: 1159827
Ion Ratio Lower Upper
96 100
61 159.2 130.2 195.2
98 64.2 50.2 75.2





#23

Vinyl Acetate

Concen: 14.267 ppbv

RT: 5.17 min Scan# 694

Delta R.T. 0.00 min

Lab File: VL032748.D

Acq: 14 Nov 2018 6:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 3872283

Ion Ratio Lower Upper

43 100

86 7.8 6.2 9.4

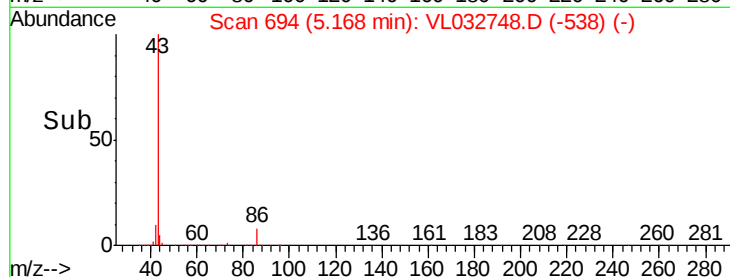
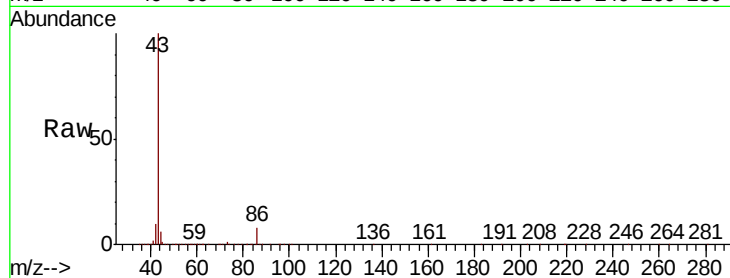
42 10.0 7.8 11.6

44 5.5 4.4 6.6

Manual Integrations
APPROVED

MMDadoda

11/16/2018 1:30:30 PM

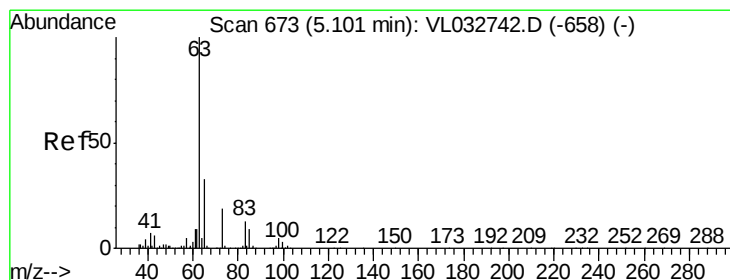
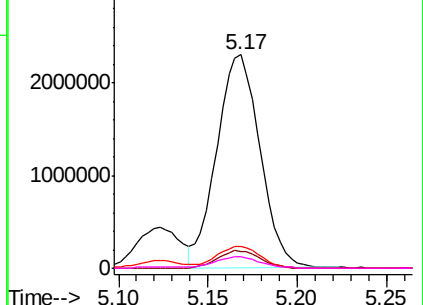


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 12.377 ppbv

RT: 5.10 min Scan# 674

Delta R.T. 0.00 min

Lab File: VL032748.D

Acq: 14 Nov 2018 6:16

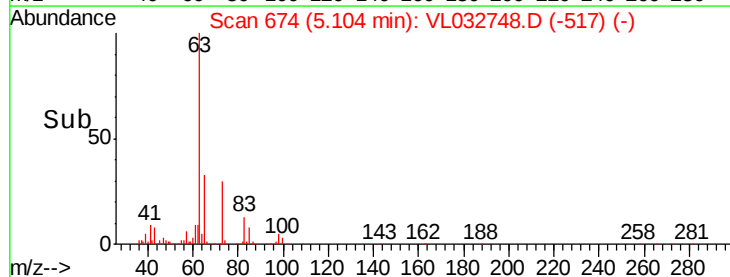
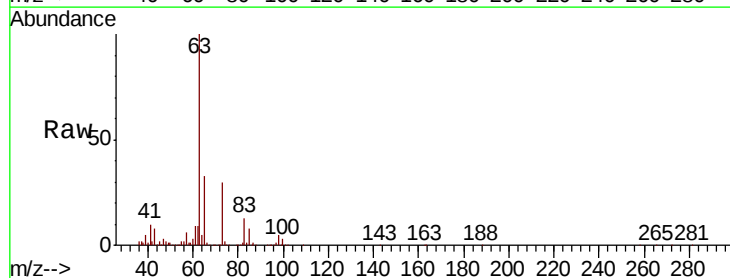
Tgt Ion: 63 Resp: 2642187

Ion Ratio Lower Upper

63 100

98 4.5 2.3 6.8

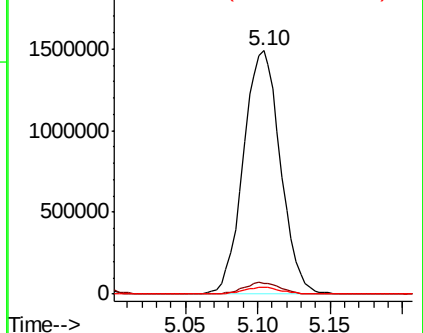
100 2.8 1.4 4.2

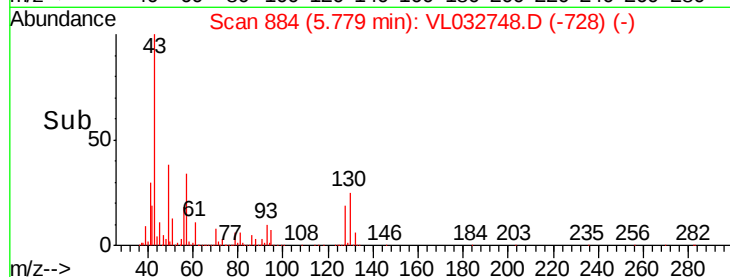
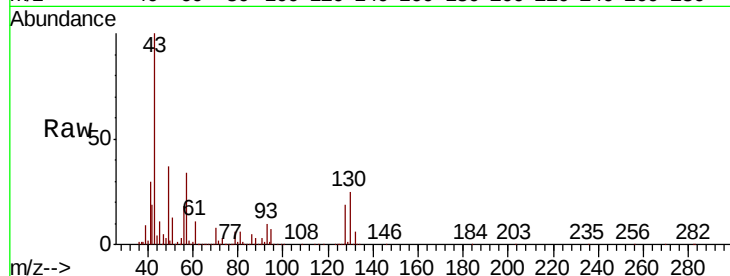
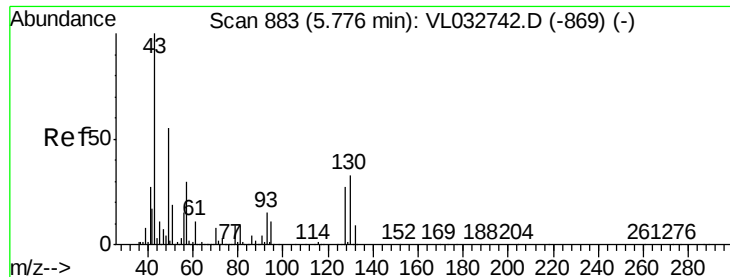


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

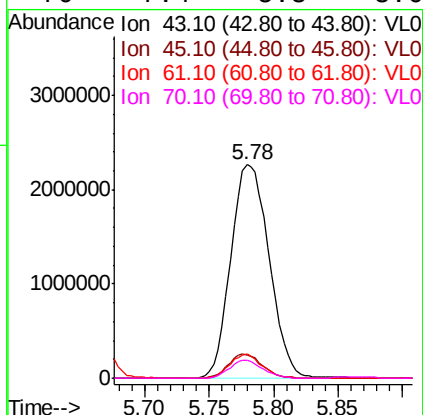
Ion 100.00 (99.70 to 100.70): VL0





#25
Ethyl Acetate
Concen: 13.583 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.00 min
Lab File: VL032748.D
Acq: 14 Nov 2018 6:16

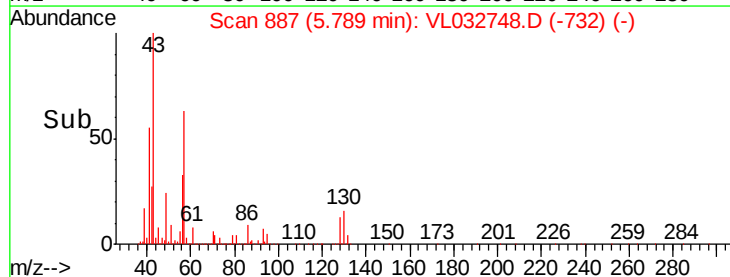
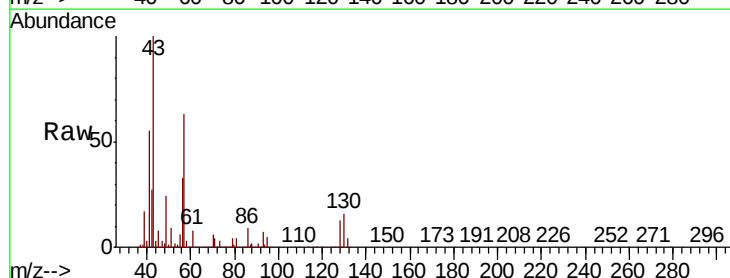
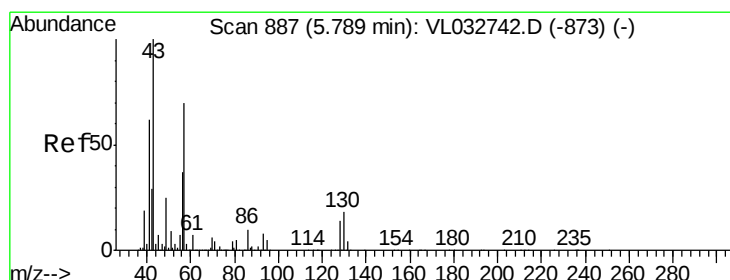
Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	10.0	7.9	11.9	
61	9.6	7.8	11.6	
70	7.4	5.8	8.6	



Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

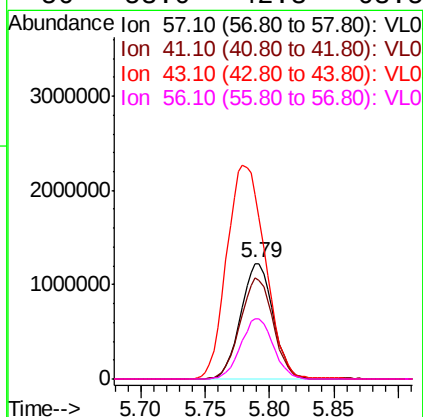
Manual Integrations
APPROVED

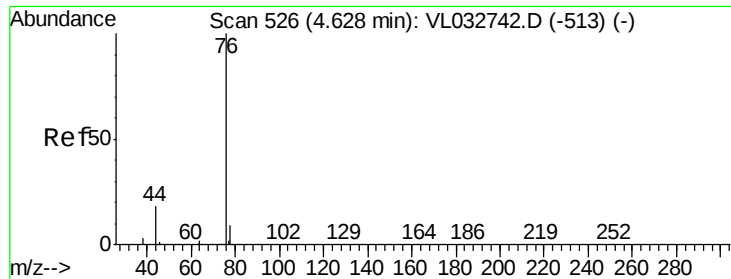
MMDadoda
11/16/2018 1:30:30 PM



#26
Hexane
Concen: 13.192 ppbv
RT: 5.79 min Scan# 887
Delta R.T. -0.00 min
Lab File: VL032748.D
Acq: 14 Nov 2018 6:16

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	88.7	70.3	105.5	
43	219.7	174.0	261.0	
56	53.0	42.3	63.5	





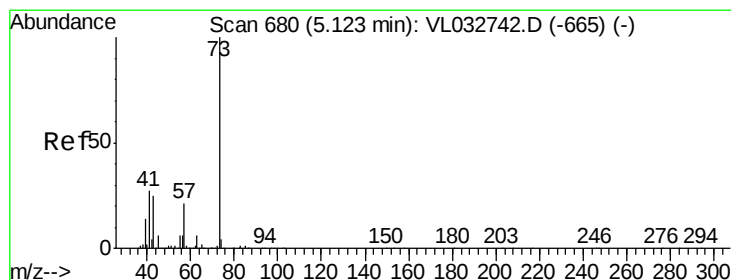
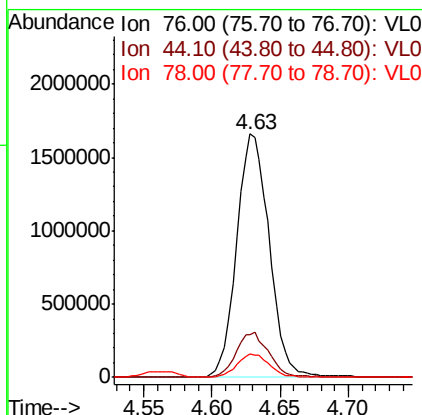
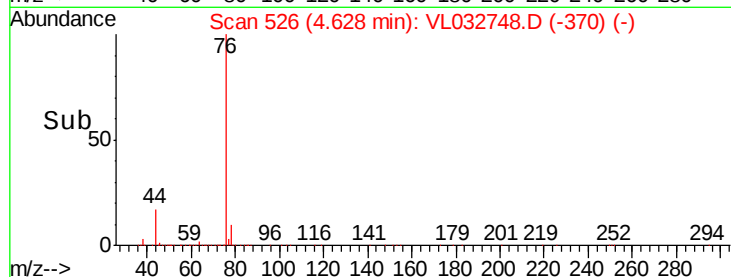
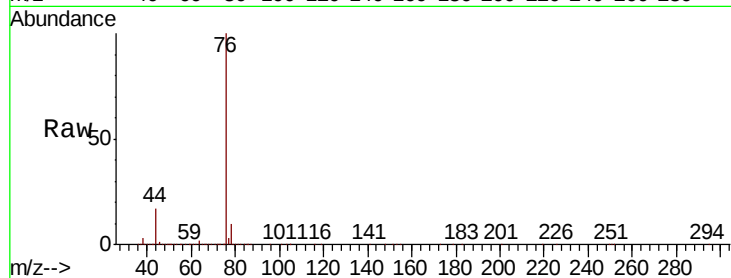
#27
Carbon Disulfide
Concen: 14.150 ppbv
RT: 4.63 min Scan# 526
Delta R.T. -0.00 min
Lab File: VL032748.D
Acq: 14 Nov 2018 6:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
76	100		
44	18.1	14.4	21.6
78	9.5	7.7	11.5

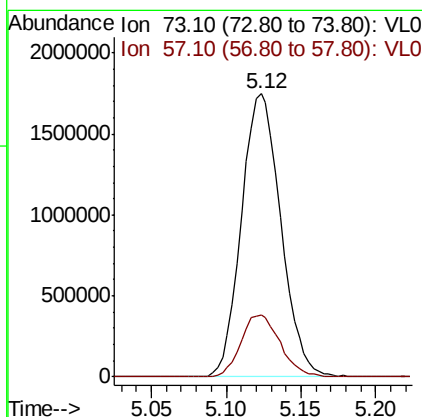
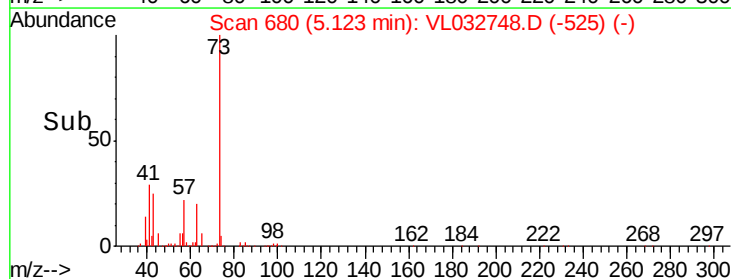
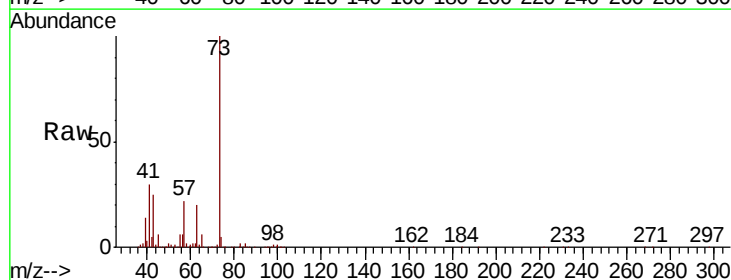
Manual Integrations
APPROVED

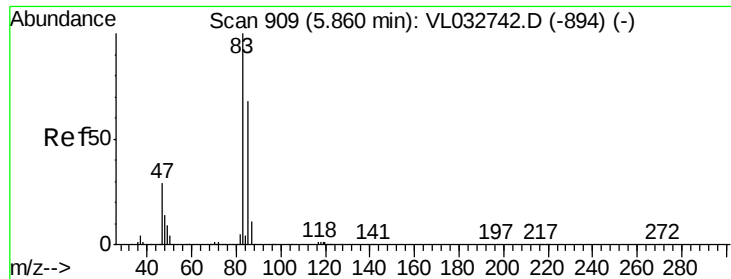
MMDadoda
11/16/2018 1:30:30 PM



#28
Methyl tert-Butyl Ether
Concen: 13.334 ppbv
RT: 5.12 min Scan# 680
Delta R.T. -0.00 min
Lab File: VL032748.D
Acq: 14 Nov 2018 6:16

Tgt Ion	Ratio	Lower	Upper
73	100		
57	22.1	17.5	26.3





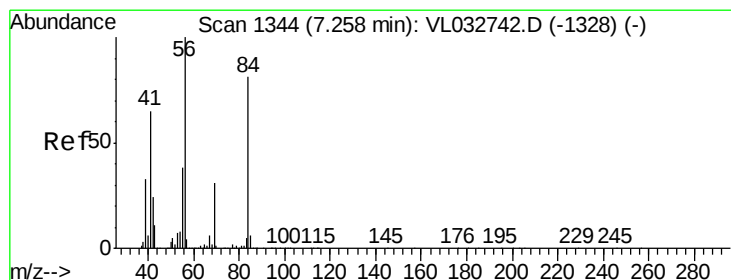
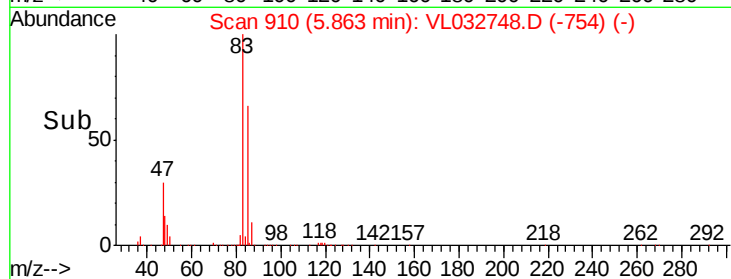
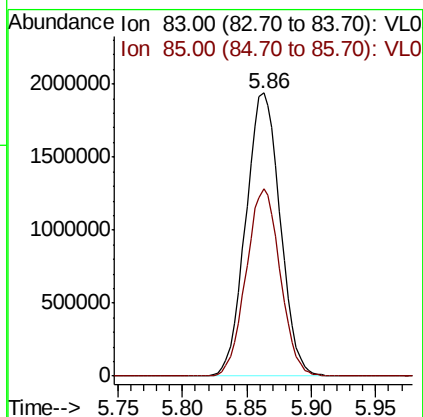
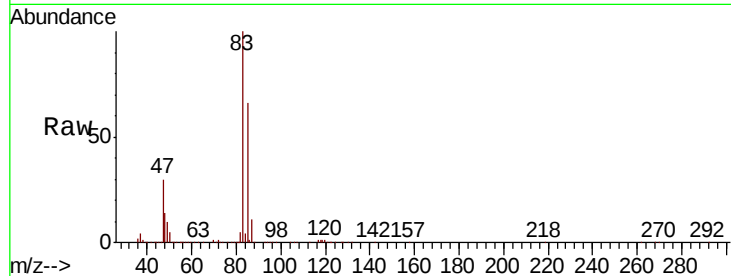
#29
Chloroform
Concen: 13.740 ppbv
RT: 5.86 min Scan# 910
Delta R.T. 0.00 min
Lab File: VL032748.D
Acq: 14 Nov 2018 6:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 3602899
Ion Ratio Lower Upper
83 100
85 66.3 54.2 81.4

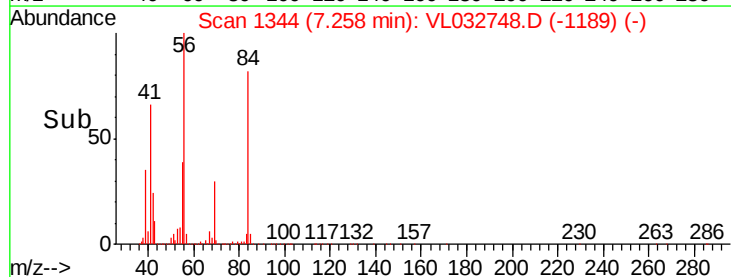
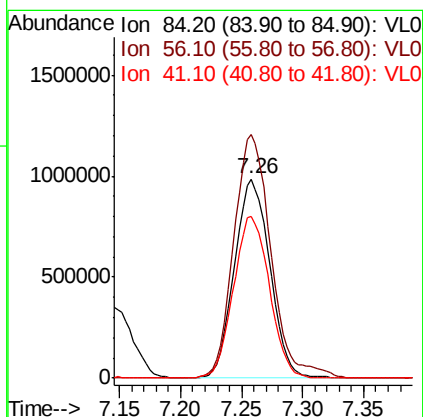
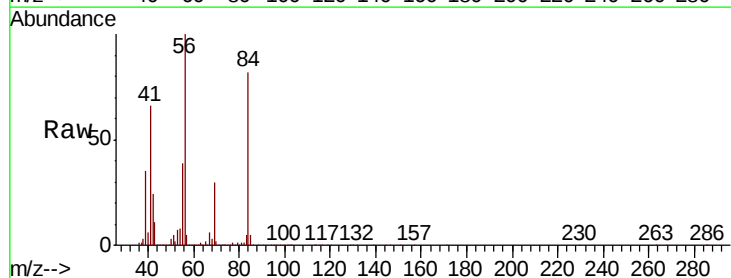
Manual Integrations
APPROVED

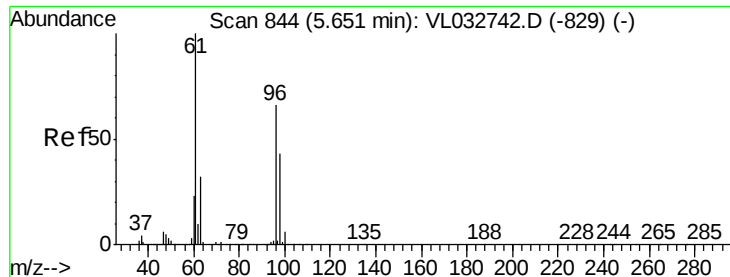
MMDadoda
11/16/2018 1:30:30 PM



#30
Cyclohexane
Concen: 15.249 ppbv
RT: 7.26 min Scan# 1344
Delta R.T. -0.00 min
Lab File: VL032748.D
Acq: 14 Nov 2018 6:16

Tgt Ion: 84 Resp: 1982751
Ion Ratio Lower Upper
84 100
56 128.8 105.0 157.4
41 82.1 65.3 97.9





#31

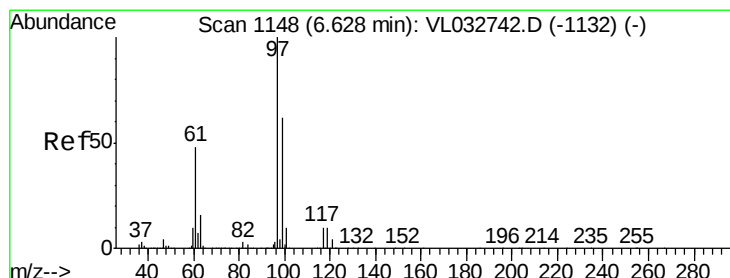
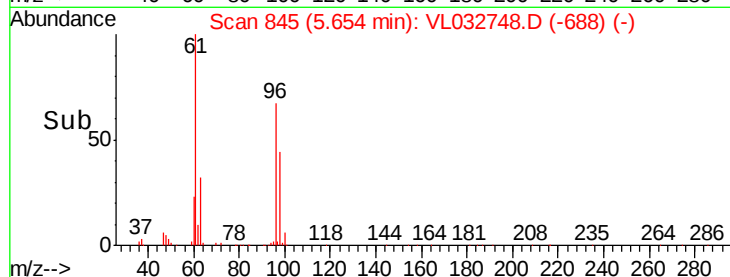
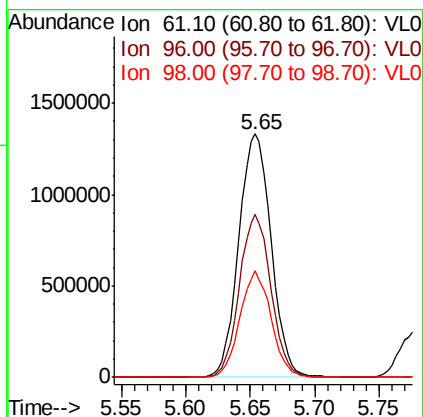
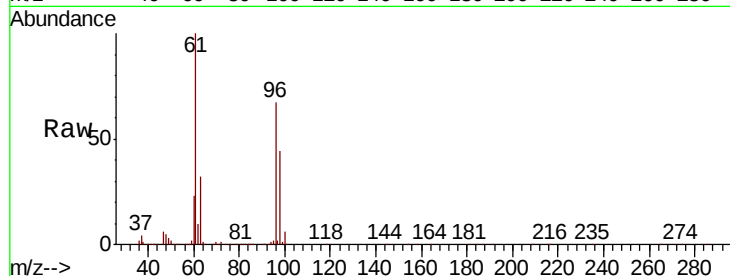
cis-1,2-Dichloroethene
Concen: 15.388 ppbv
RT: 5.65 min Scan# 845
Delta R.T. 0.00 min
Lab File: VL032748.D
Acq: 14 Nov 2018 6:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
61	100		
96	67.2	53.2	79.8
98	43.8	34.4	51.6

Manual Integrations
APPROVED

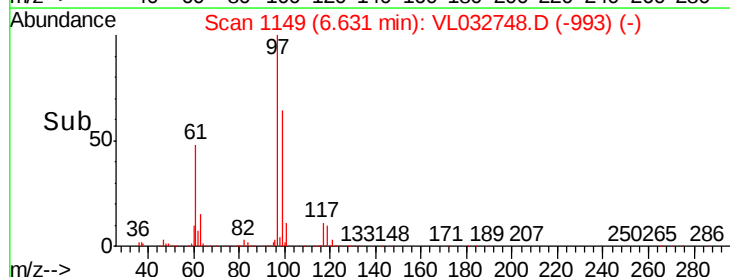
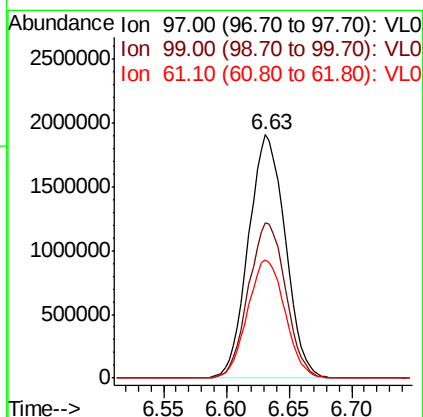
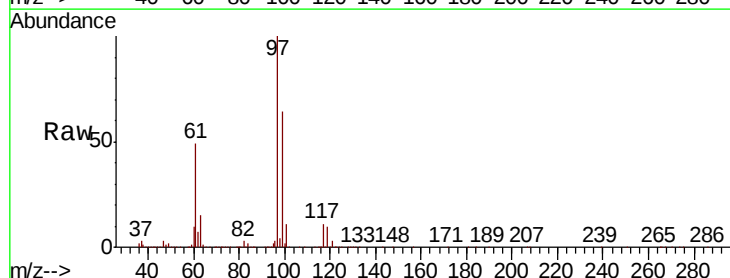
MMDadoda
11/16/2018 1:30:30 PM

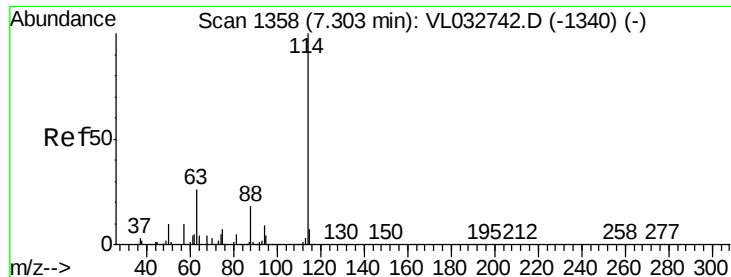


#32

1,1,1-Trichloroethane
Concen: 14.487 ppbv
RT: 6.63 min Scan# 1149
Delta R.T. 0.00 min
Lab File: VL032748.D
Acq: 14 Nov 2018 6:16

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.6	51.8	77.6
61	49.3	39.7	59.5





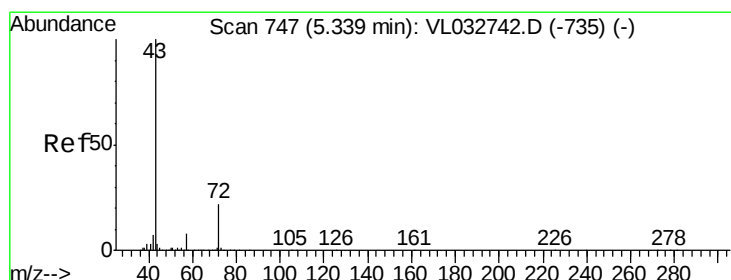
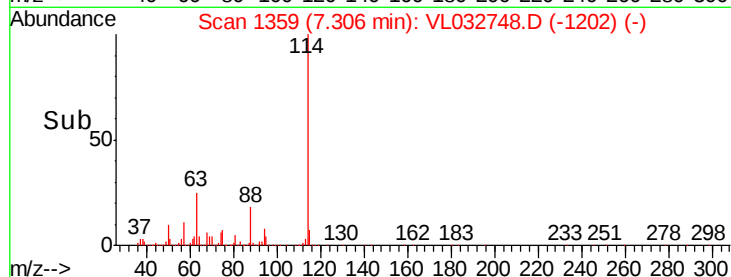
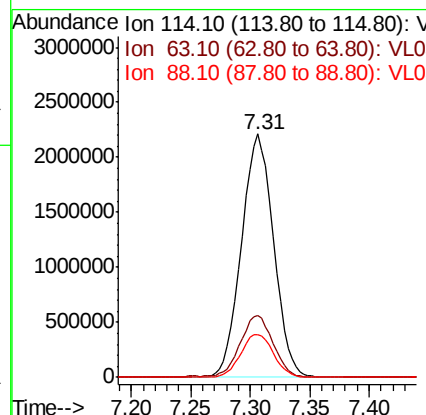
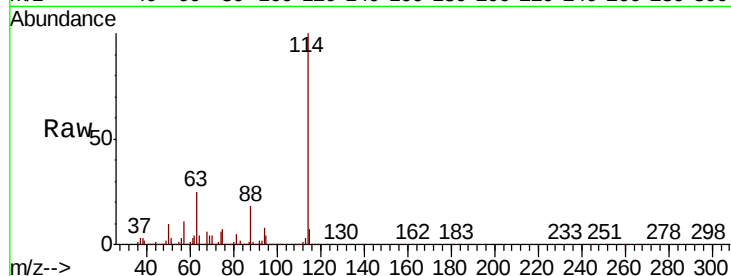
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.31 min Scan# 1359
 Delta R.T. 0.00 min
 Lab File: VL032748.D
 Acq: 14 Nov 2018 6:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.2	20.9	31.3
88	18.1	14.4	21.6

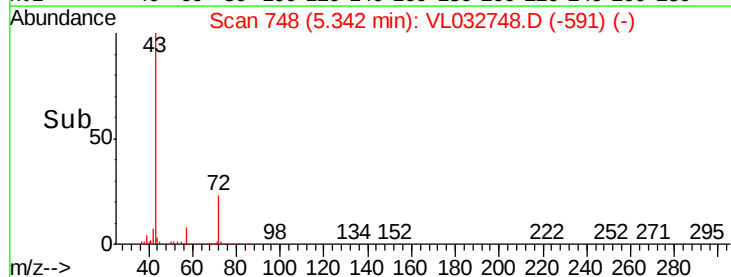
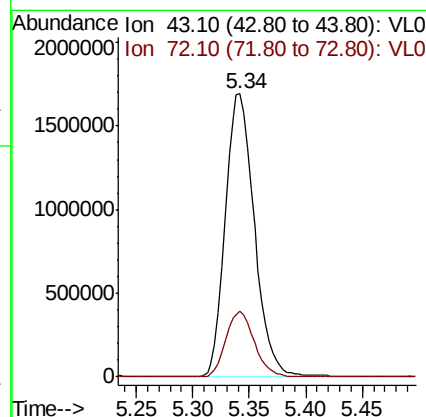
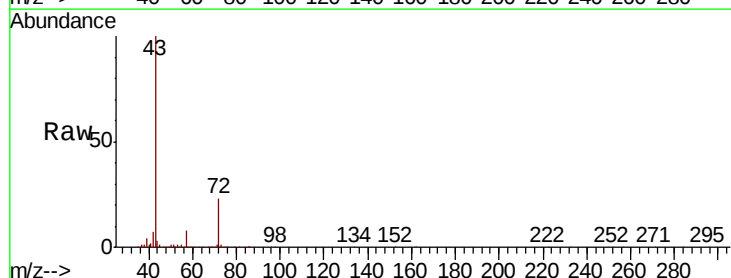
Manual Integrations
 APPROVED

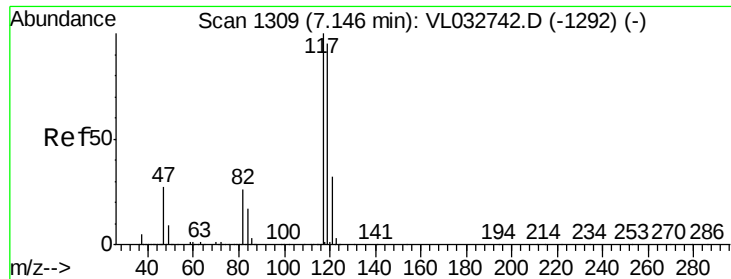
MMDadoda
 11/16/2018 1:30:30 PM



#34
 2-Butanone
 Concen: 13.592 ppbv
 RT: 5.34 min Scan# 748
 Delta R.T. 0.00 min
 Lab File: VL032748.D
 Acq: 14 Nov 2018 6:16

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.8	18.4	27.6





#35

Carbon Tetrachloride

Concen: 14.082 ppbv

RT: 7.15 min Scan# 1309

Delta R.T. -0.00 min

Lab File: VL032748.D

Acq: 14 Nov 2018 6:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 117 Resp: 4180171

Ion Ratio Lower Upper

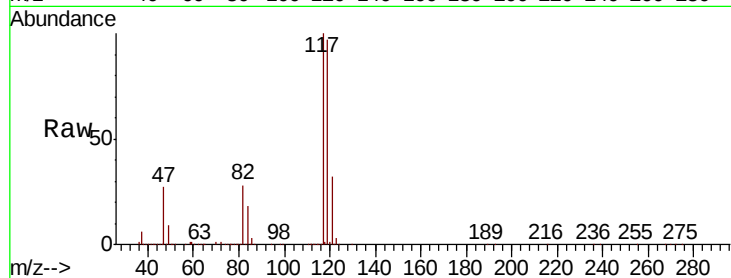
117 100

119 97.0 76.1 114.1

121 31.5 25.4 38.0

Manual Integrations
APPROVED

MMDadoda
11/16/2018 1:30:30 PM

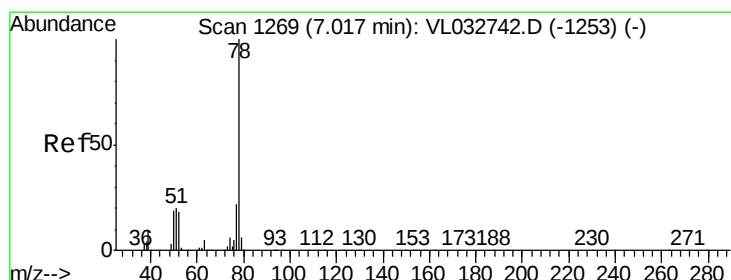
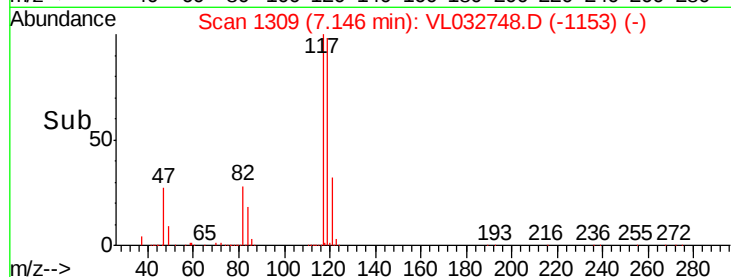
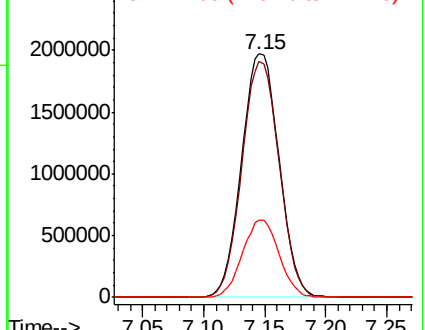


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 13.962 ppbv

RT: 7.02 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VL032748.D

Acq: 14 Nov 2018 6:16

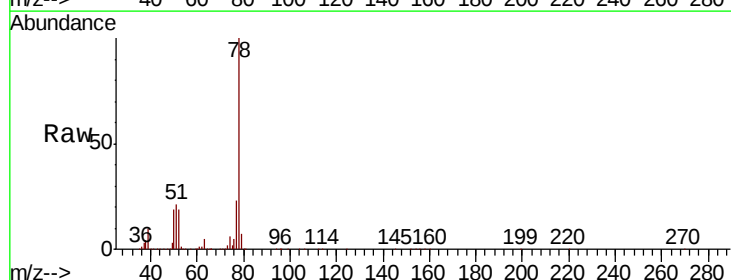
Tgt Ion: 78 Resp: 4672406

Ion Ratio Lower Upper

78 100

77 23.0 17.8 26.8

50 19.4 15.4 23.0

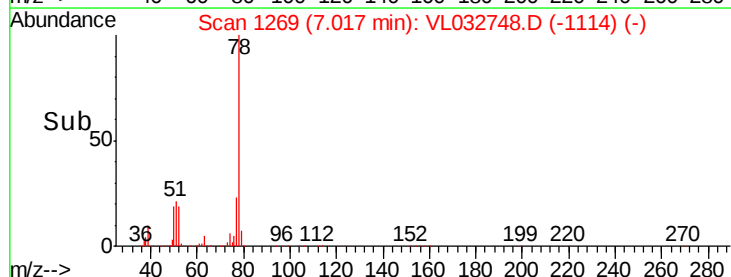
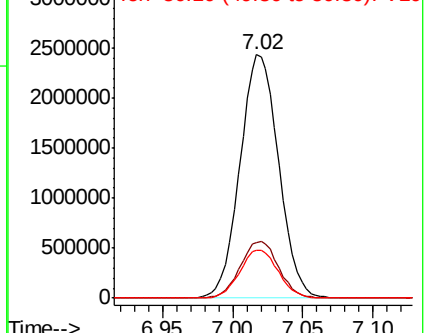


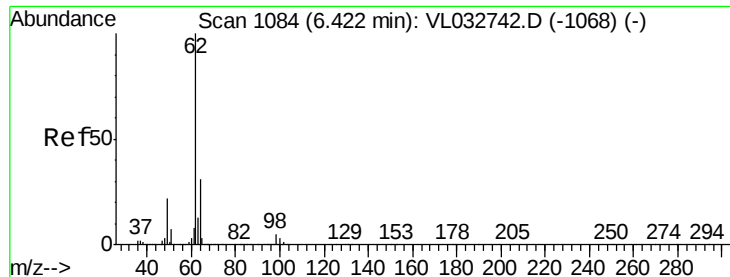
Abundance

Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





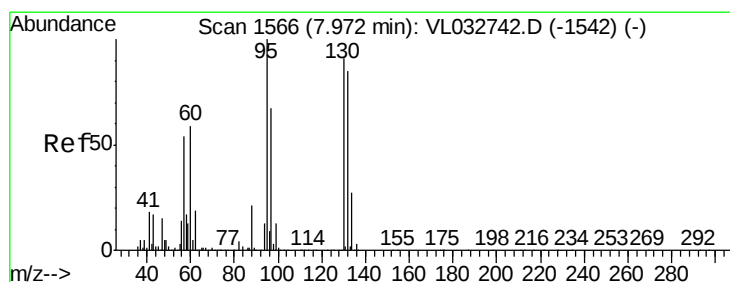
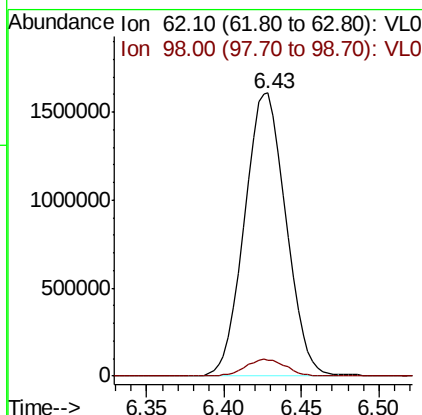
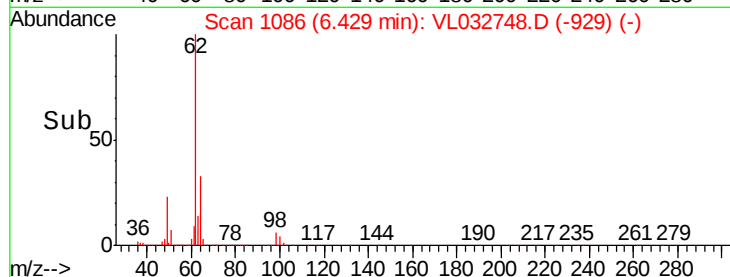
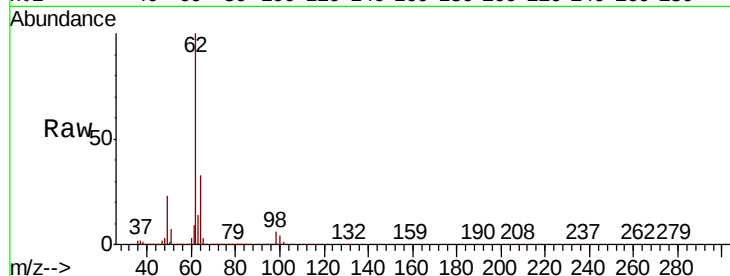
#37
 1,2-Dichloroethane
 Concen: 14.439 ppbv
 RT: 6.43 min Scan# 1086
 Delta R.T. 0.01 min
 Lab File: VL032748.D
 Acq: 14 Nov 2018 6:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 62 Resp: 3003266
 Ion Ratio Lower Upper
 62 100
 98 5.9 4.5 6.7

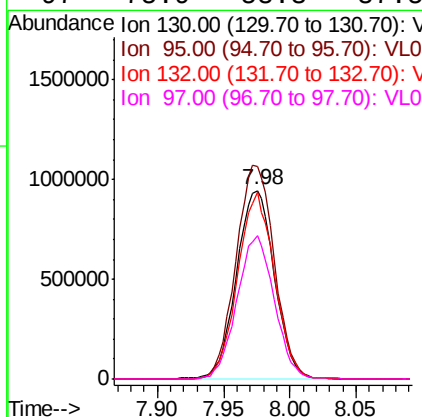
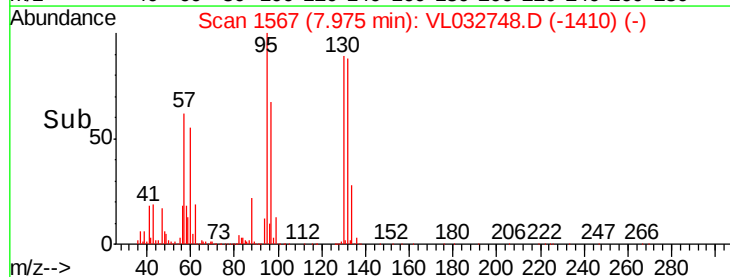
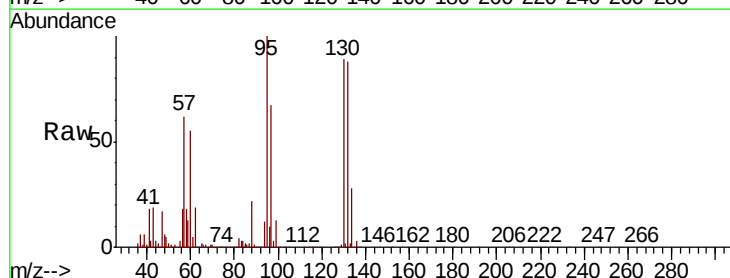
Manual Integrations
 APPROVED

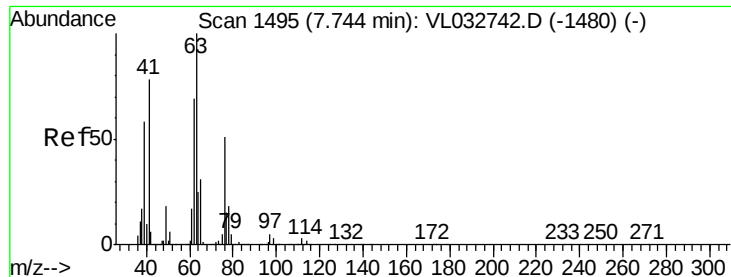
MMDadoda
 11/16/2018 1:30:30 PM



#38
 Trichloroethene
 Concen: 14.865 ppbv
 RT: 7.98 min Scan# 1567
 Delta R.T. 0.00 min
 Lab File: VL032748.D
 Acq: 14 Nov 2018 6:16

Tgt Ion: 130 Resp: 1863021
 Ion Ratio Lower Upper
 130 100
 95 112.5 87.7 131.5
 132 98.8 74.6 111.8
 97 75.9 58.3 87.5





#39

1,2-Dichloropropane

Concen: 13.870 ppbv

RT: 7.75 min Scan# 1497

Delta R.T. 0.01 min

Lab File: VL032748.D

Acq: 14 Nov 2018 6:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 63 Resp: 1791628

Ion Ratio Lower Upper

63 100

41 74.0 62.0 93.0

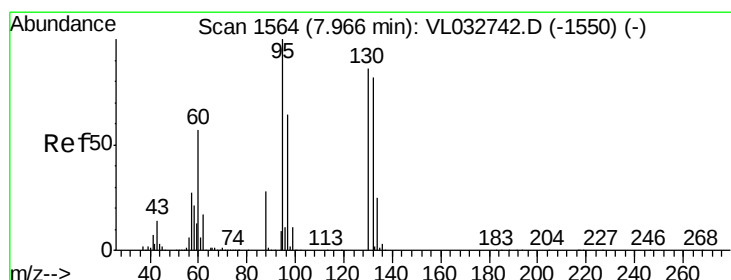
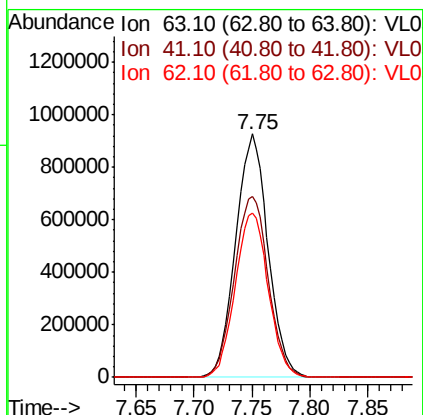
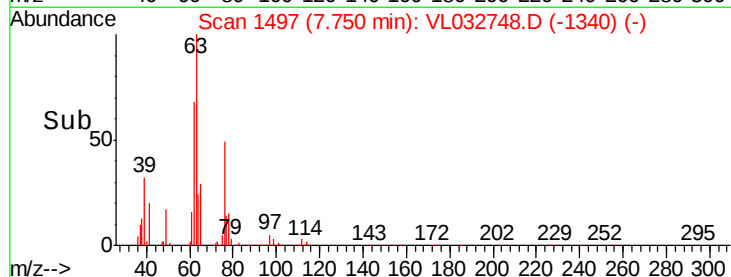
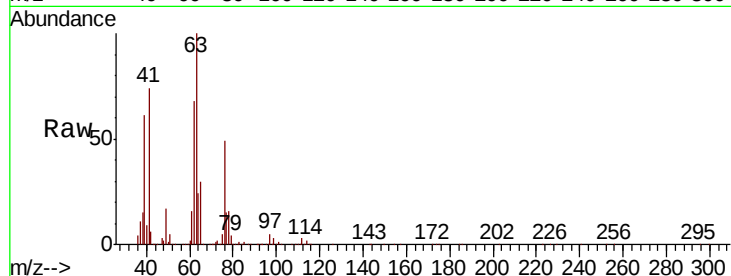
62 67.5 55.4 83.2

Manual Integrations

APPROVED

MMDadoda

11/16/2018 1:30:30 PM



#40

1,4-Dioxane

Concen: 15.028 ppbv

RT: 7.97 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VL032748.D

Acq: 14 Nov 2018 6:16

Tgt Ion: 88 Resp: 660469

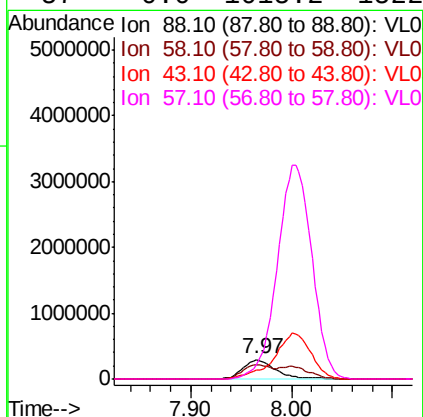
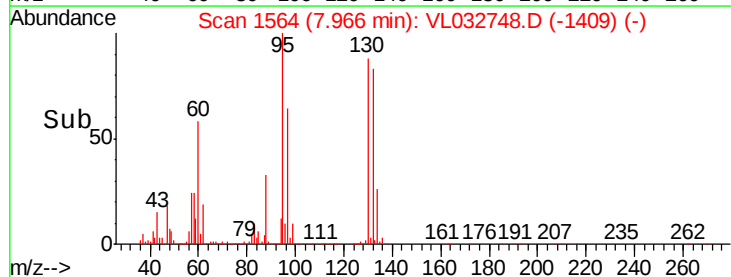
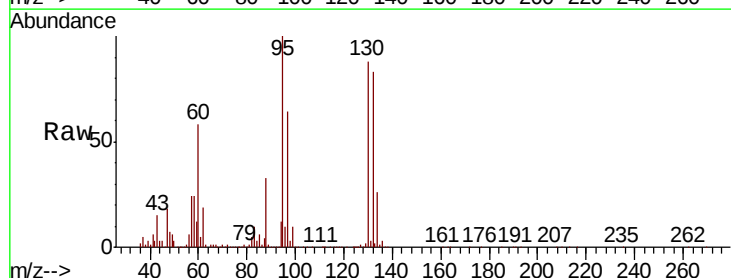
Ion Ratio Lower Upper

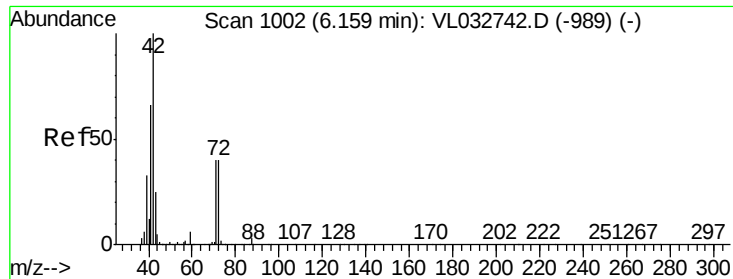
88 100

58 61.5 105.3 157.9#

43 0.0 226.1 339.1#

57 0.0 1015.2 1522.8#





#41

Tetrahydrofuran

Concen: 15.225 ppbv

RT: 6.16 min Scan# 1002

Delta R.T. -0.00 min

Lab File: VL032748.D

Acq: 14 Nov 2018 6:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 42 Resp: 1873639

Ion Ratio Lower Upper

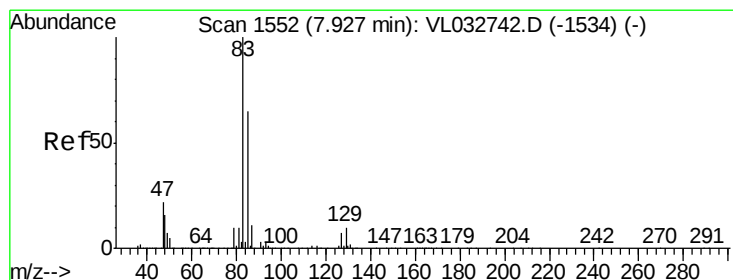
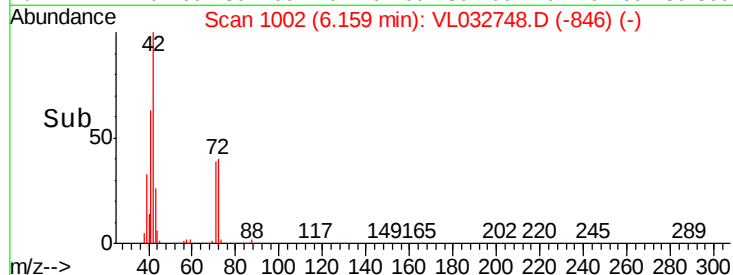
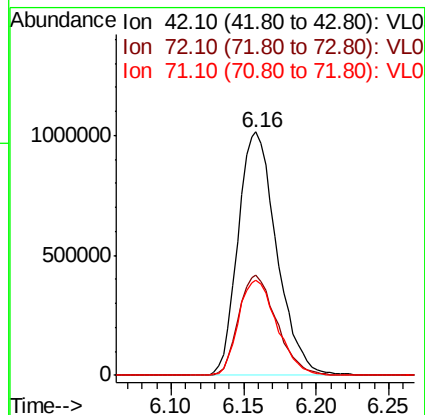
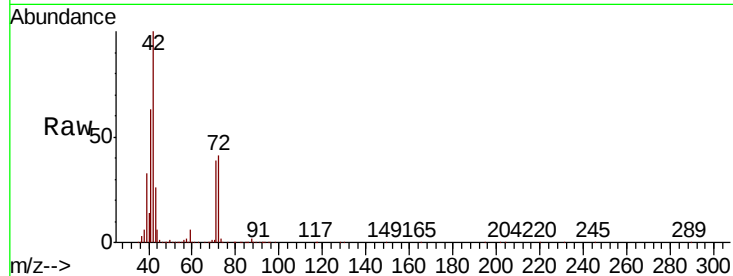
42 100

72 40.8 32.4 48.6

71 39.1 31.6 47.4

Manual Integrations
APPROVED

MMDadoda
11/16/2018 1:30:30 PM



#42

Bromodichloromethane

Concen: 14.386 ppbv

RT: 7.93 min Scan# 1554

Delta R.T. 0.01 min

Lab File: VL032748.D

Acq: 14 Nov 2018 6:16

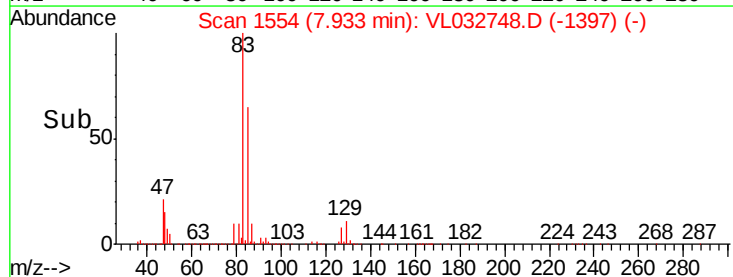
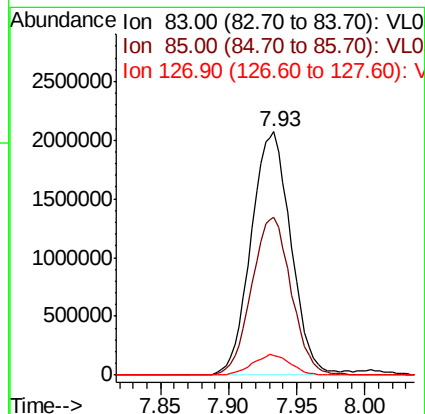
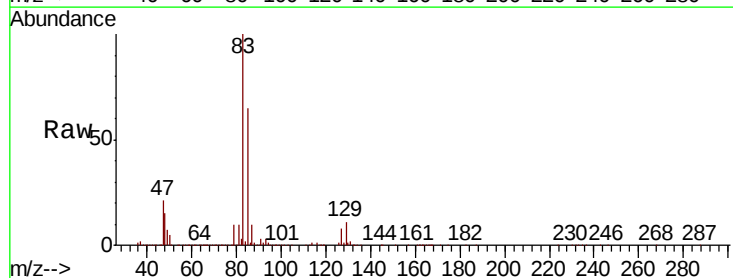
Tgt Ion: 83 Resp: 4182193

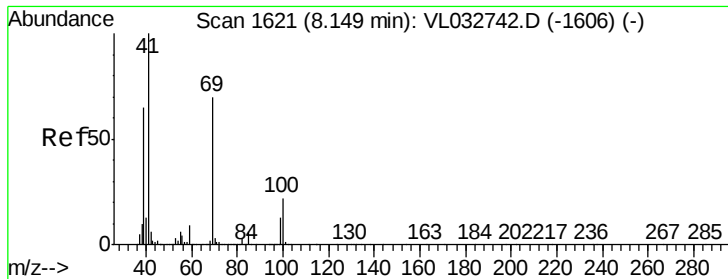
Ion Ratio Lower Upper

83 100

85 64.8 51.8 77.8

127 8.2 5.9 8.9





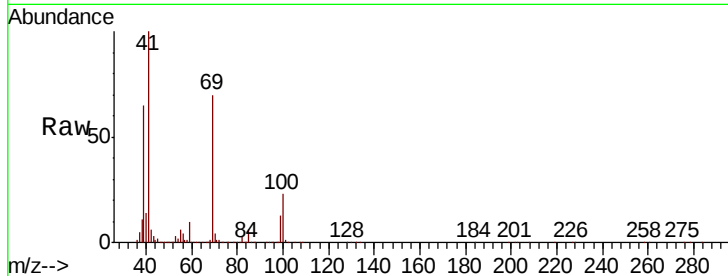
#43
Methyl Methacrylate
Concen: 15.681 ppbv
RT: 8.15 min Scan# 1621
Delta R.T. -0.00 min
Lab File: VL032748.D
Acq: 14 Nov 2018 6:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
69	100		
41	145.6	115.0	172.4
100	31.9	25.4	38.0

Manual Integrations
APPROVED

MMDadoda
11/16/2018 1:30:30 PM

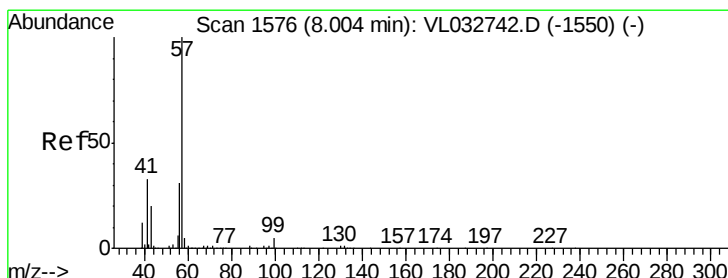
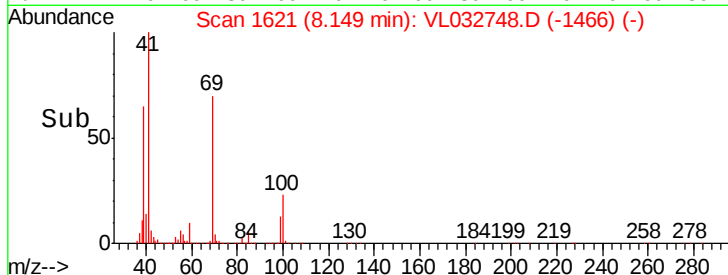
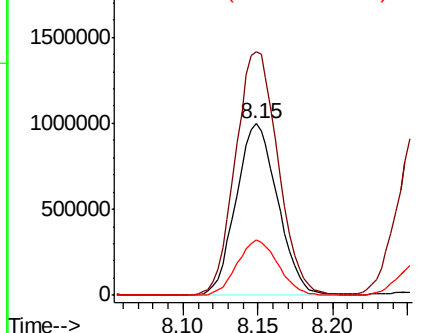


Abundance

Ion 69.10 (68.80 to 69.80): VL0

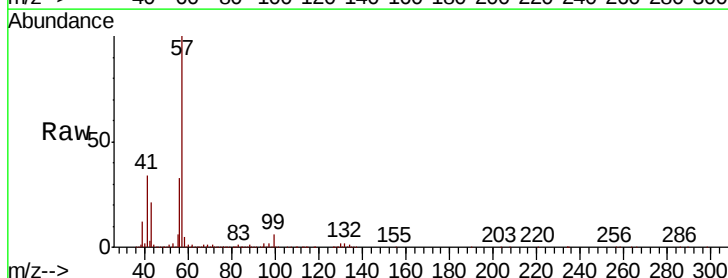
Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0



#44
2,2,4-Trimethylpentane
Concen: 13.574 ppbv
RT: 8.00 min Scan# 1576
Delta R.T. -0.00 min
Lab File: VL032748.D
Acq: 14 Nov 2018 6:16

Tgt Ion	Ratio	Lower	Upper
57	100		
41	33.3	26.6	39.8
56	31.5	24.8	37.2

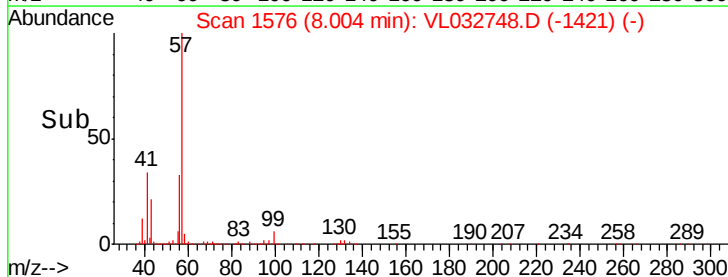
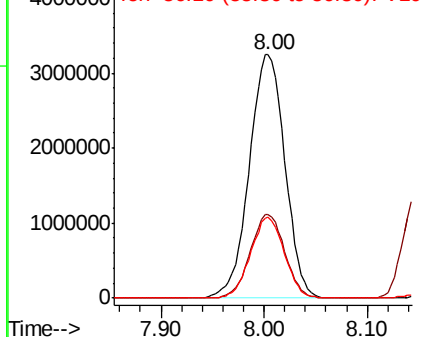


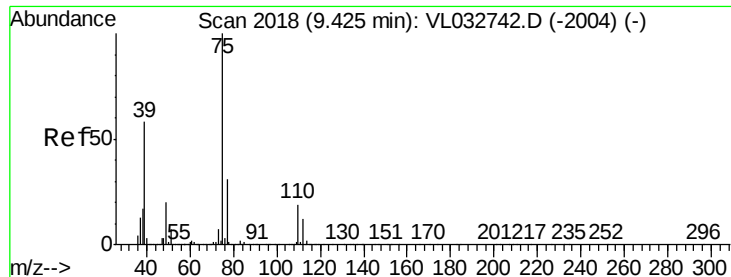
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





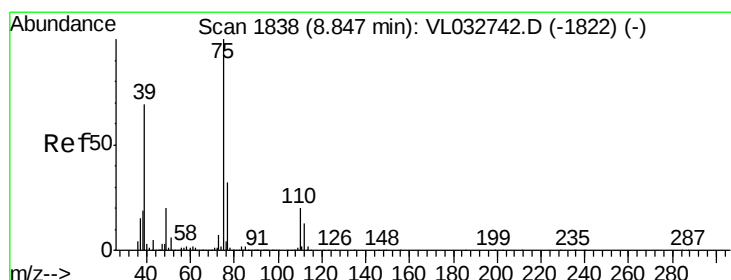
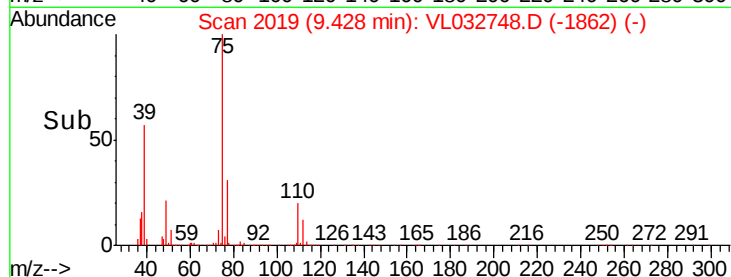
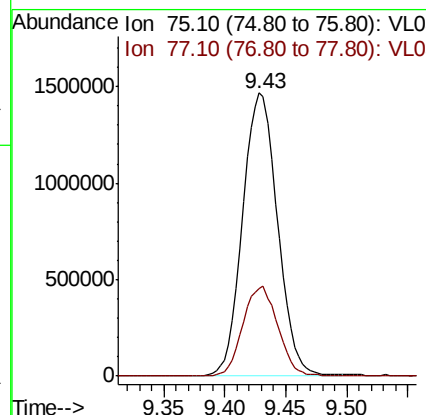
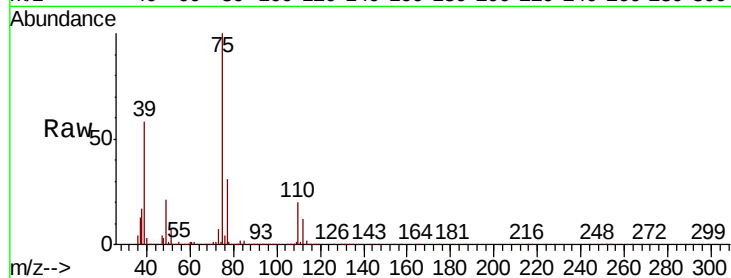
#45
 t-1,3-Dichloropropene
 Concen: 17.618 ppbv
 RT: 9.43 min Scan# 2019
 Delta R.T. 0.00 min
 Lab File: VL032748.D
 Acq: 14 Nov 2018 6:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 75 Resp: 2900955
 Ion Ratio Lower Upper
 75 100
 77 31.1 24.6 36.8

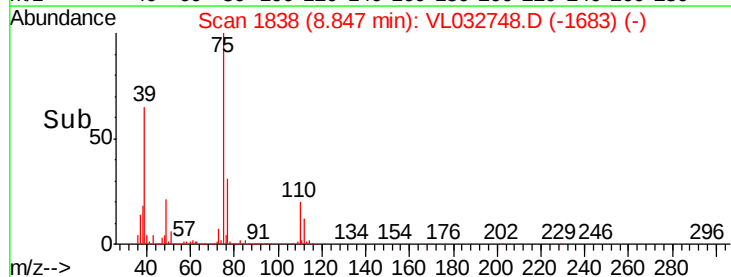
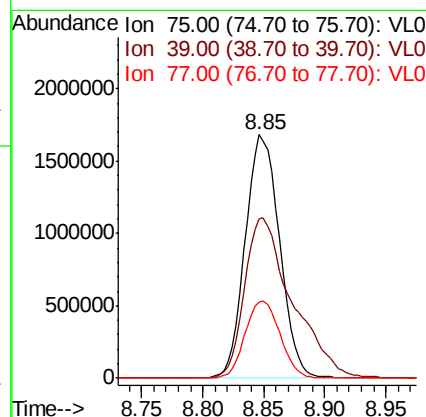
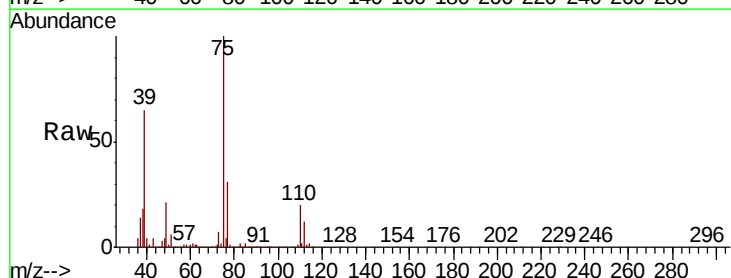
Manual Integrations
 APPROVED

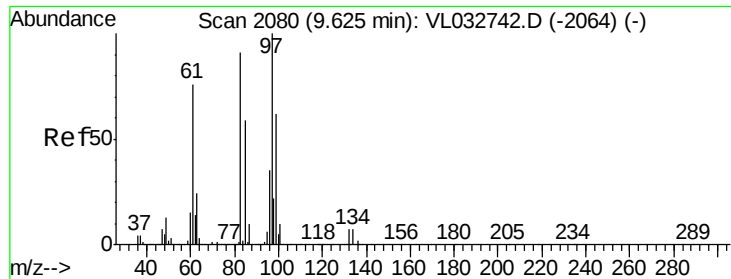
MMDadoda
 11/16/2018 1:30:30 PM



#46
 cis-1,3-Dichloropropene
 Concen: 17.068 ppbv
 RT: 8.85 min Scan# 1838
 Delta R.T. -0.00 min
 Lab File: VL032748.D
 Acq: 14 Nov 2018 6:16

Tgt Ion: 75 Resp: 3263888
 Ion Ratio Lower Upper
 75 100
 39 65.4 55.2 82.8
 77 31.2 25.8 38.6





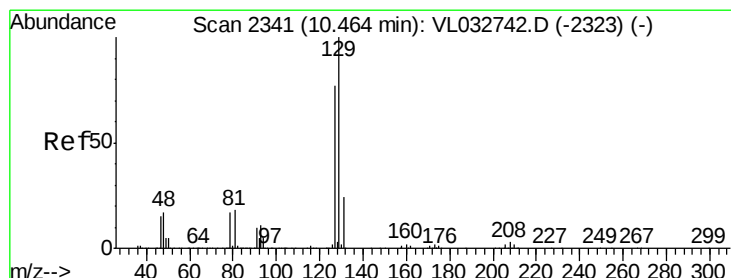
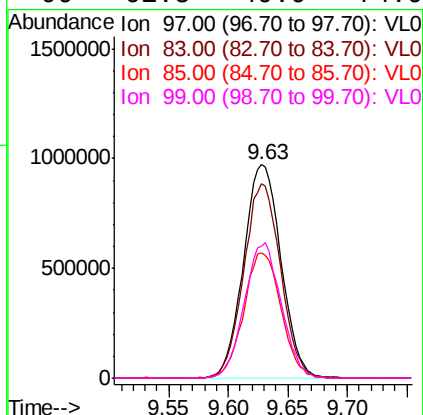
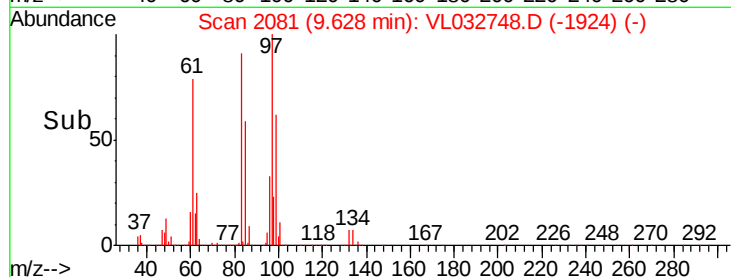
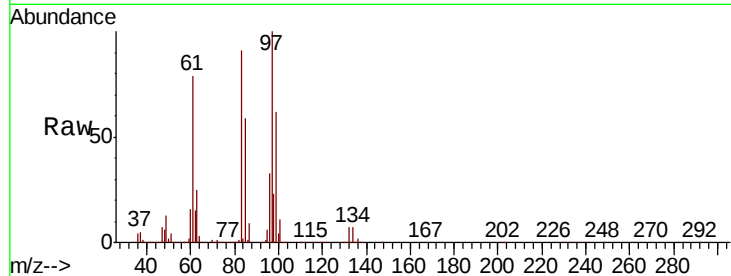
#47
 1,1,2-Trichloroethane
 Concen: 13.916 ppbv
 RT: 9.63 min Scan# 2081
 Delta R.T. 0.00 min
 Lab File: VL032748.D
 Acq: 14 Nov 2018 6:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	90.7	73.0	109.4	
85	58.9	47.0	70.4	
99	61.5	49.9	74.9	

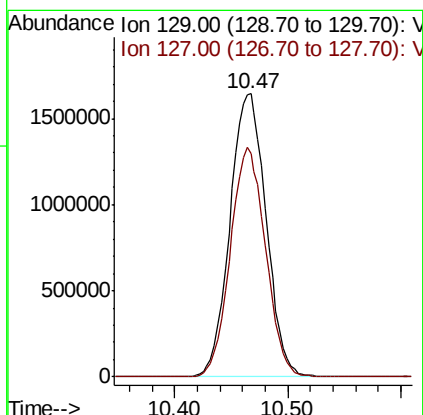
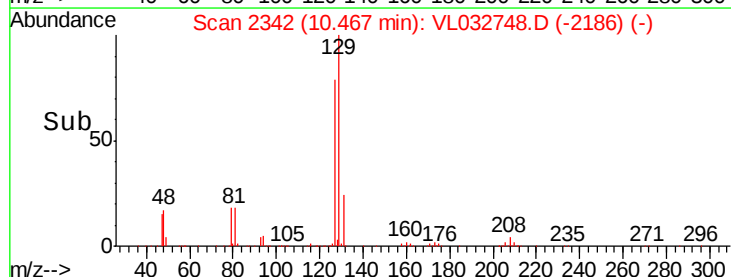
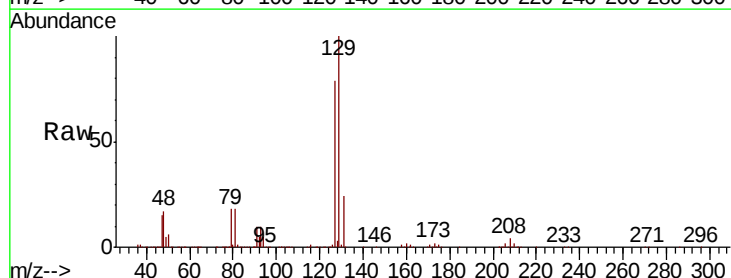
Manual Integrations
 APPROVED

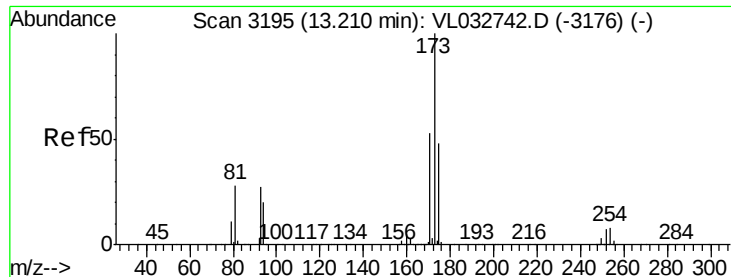
MMDadoda
 11/16/2018 1:30:30 PM



#48
 Dibromochloromethane
 Concen: 14.204 ppbv
 RT: 10.47 min Scan# 2342
 Delta R.T. 0.00 min
 Lab File: VL032748.D
 Acq: 14 Nov 2018 6:16

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	79.0	39.0	117.0	





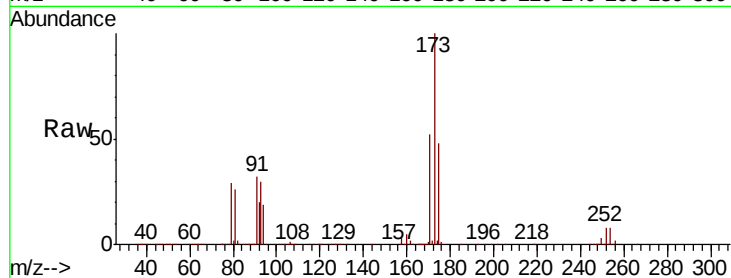
#49
Bromoform
Concen: 15.070 ppbv
RT: 13.21 min Scan# 3196
Delta R.T. 0.00 min
Lab File: VL032748.D
Acq: 14 Nov 2018 6:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

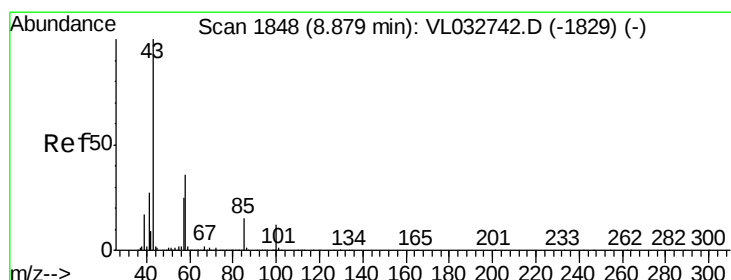
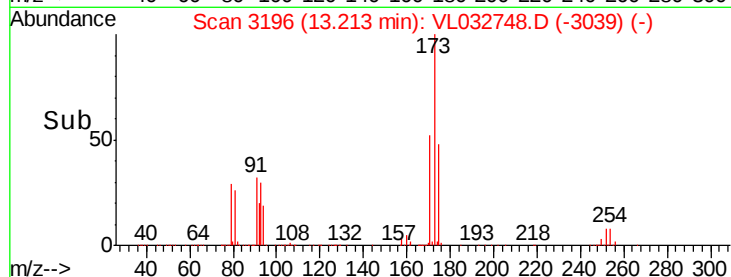
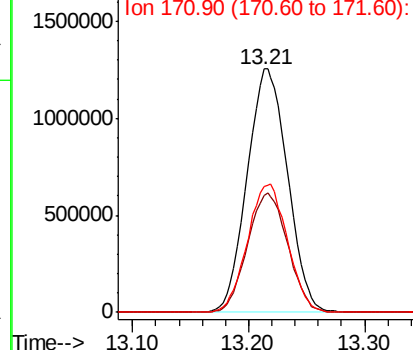
Tot Ion:173 Resp: 3042631
Ion Ratio Lower Upper
173 100
175 48.9 39.4 59.0
171 52.1 42.0 63.0

Manual Integrations
APPROVED

MMDadoda
11/16/2018 1:30:30 PM

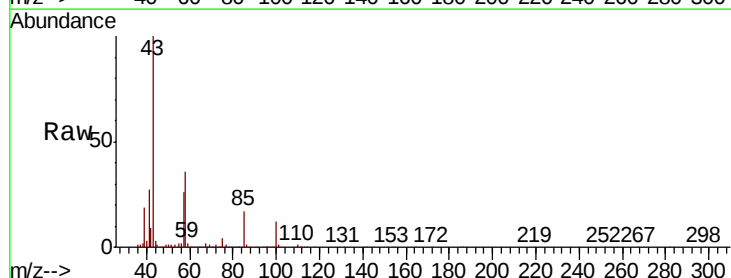


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

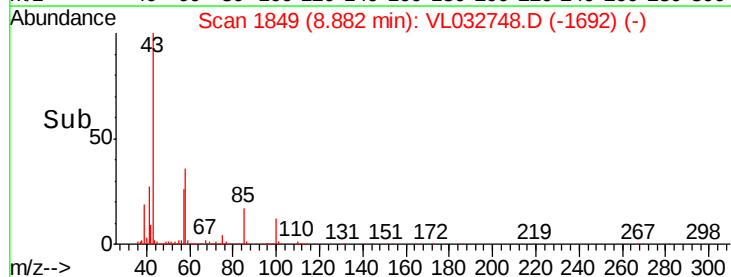
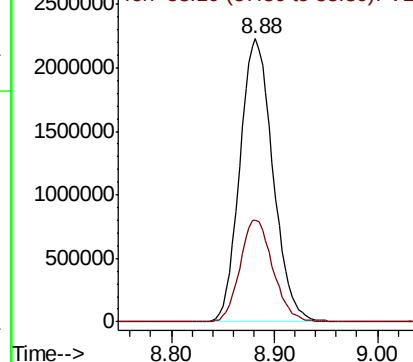


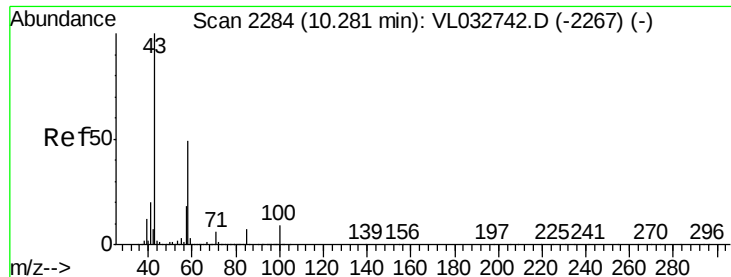
#50
4-Methyl-2-Pentanone
Concen: 14.948 ppbv
RT: 8.88 min Scan# 1849
Delta R.T. 0.00 min
Lab File: VL032748.D
Acq: 14 Nov 2018 6:16

Tgt Ion: 43 Resp: 4971946
Ion Ratio Lower Upper
43 100
58 36.0 28.8 43.2



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





#51

2-Hexanone

Concen: 14.352 ppbv

RT: 10.28 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VL032748.D

Acq: 14 Nov 2018 6:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 3435732

Ion Ratio Lower Upper

43 100

58 48.4 38.9 58.3

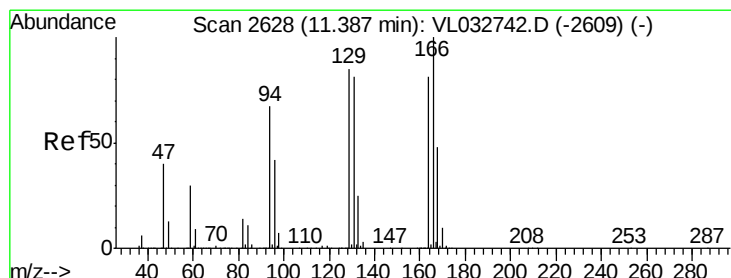
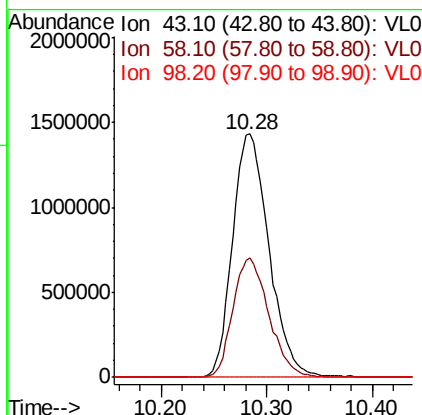
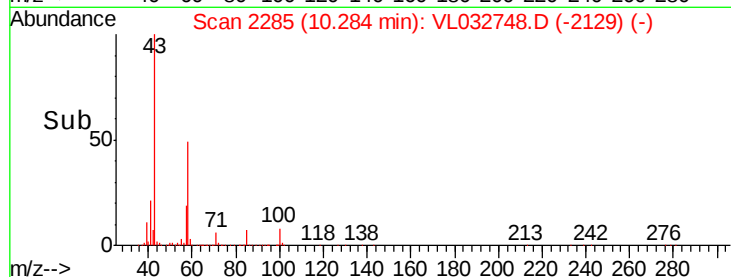
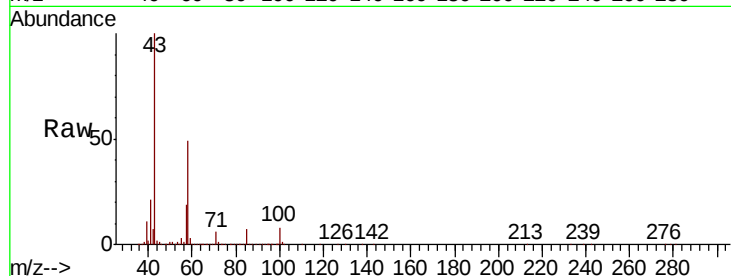
98 0.2 0.2 0.4#

Manual Integrations

APPROVED

MMDadoda

11/16/2018 1:30:30 PM



#52

Tetrachloroethene

Concen: 14.162 ppbv

RT: 11.38 min Scan# 2627

Delta R.T. -0.00 min

Lab File: VL032748.D

Acq: 14 Nov 2018 6:16

Tgt Ion: 164 Resp: 1660685

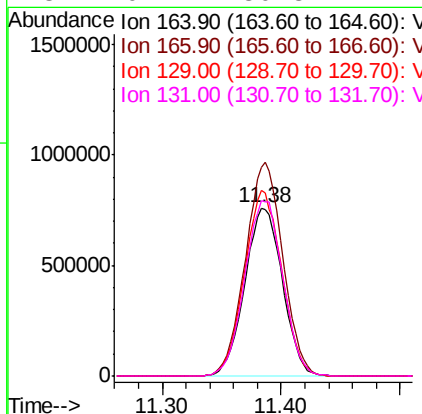
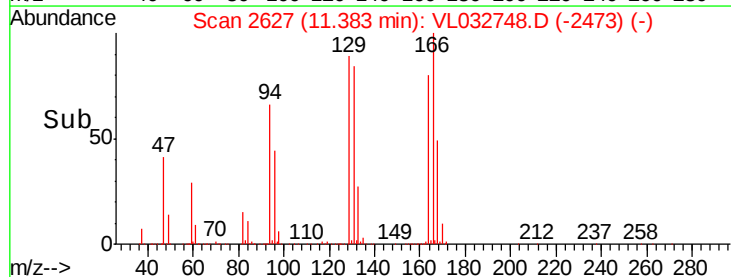
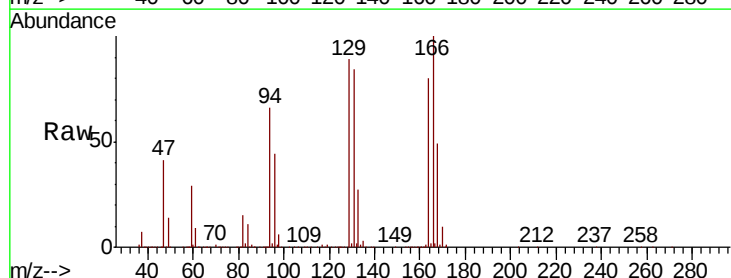
Ion Ratio Lower Upper

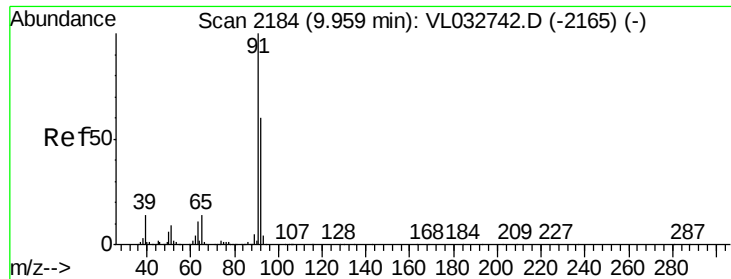
164 100

166 124.5 99.3 148.9

129 110.4 83.9 125.9

131 104.2 80.8 121.2





#53

Toluene

Concen: 14.493 ppbv

RT: 9.96 min Scan# 2184

Delta R.T. -0.00 min

Lab File: VL032748.D

Acq: 14 Nov 2018 6:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 5482112

Ion Ratio Lower Upper

91 100

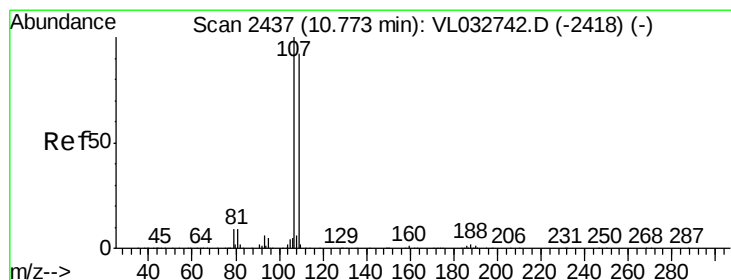
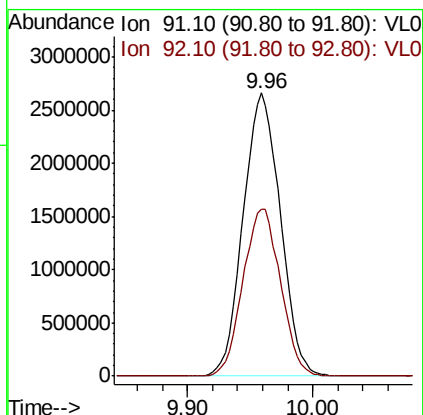
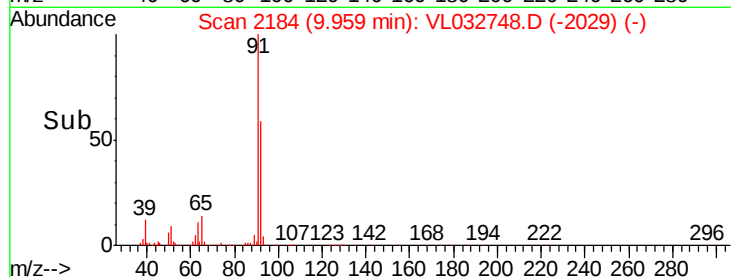
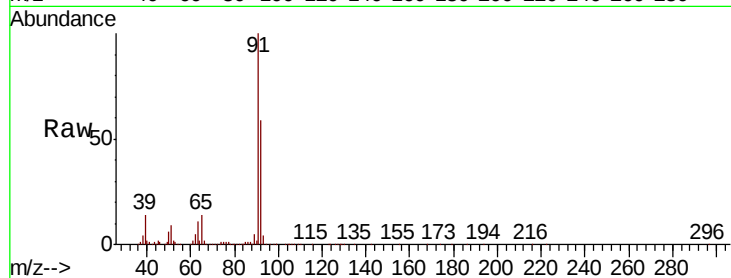
92 59.8 47.9 71.9

Manual Integrations

APPROVED

MMDadoda

11/16/2018 1:30:30 PM



#54

1,2-Dibromoethane

Concen: 14.910 ppbv

RT: 10.78 min Scan# 2438

Delta R.T. 0.00 min

Lab File: VL032748.D

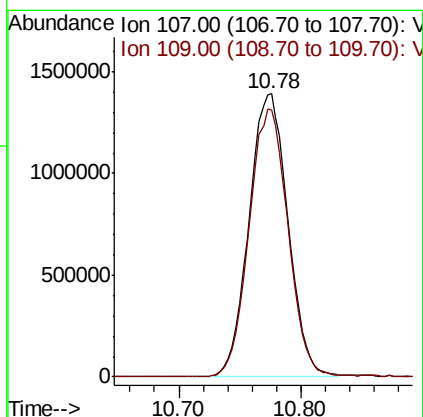
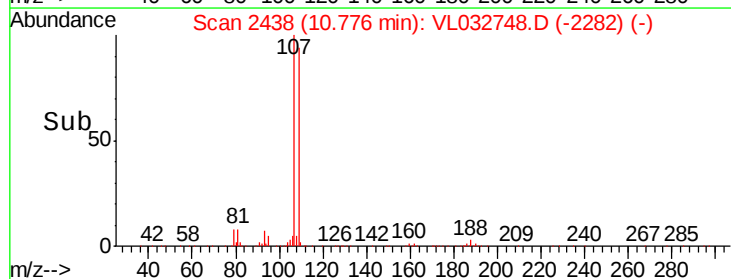
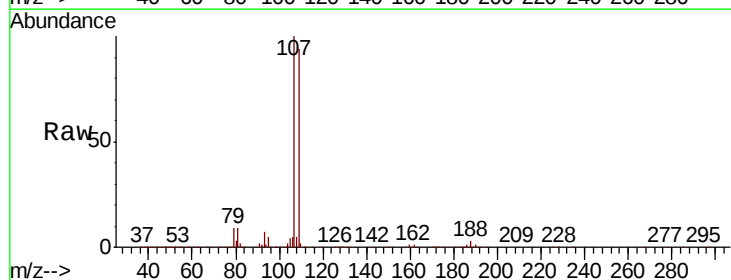
Acq: 14 Nov 2018 6:16

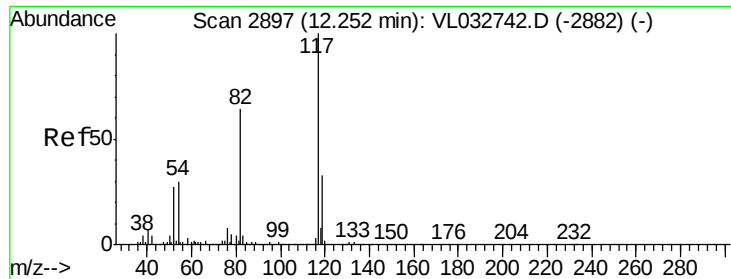
Tgt Ion: 107 Resp: 3061096

Ion Ratio Lower Upper

107 100

109 94.1 73.8 110.8





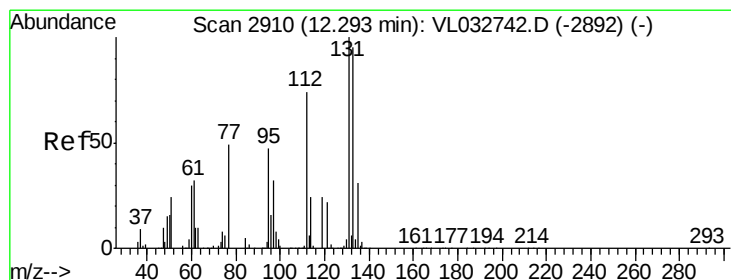
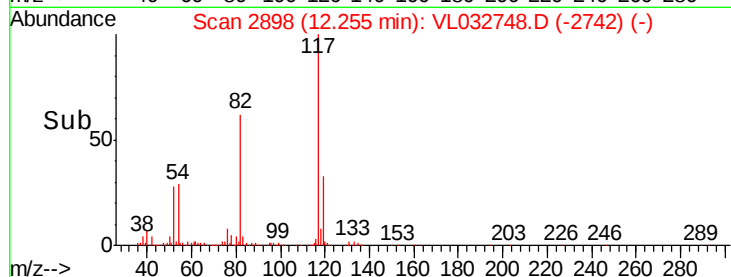
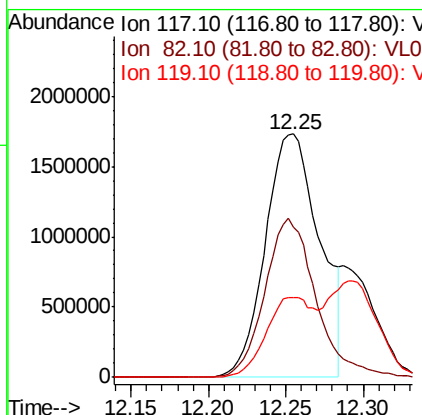
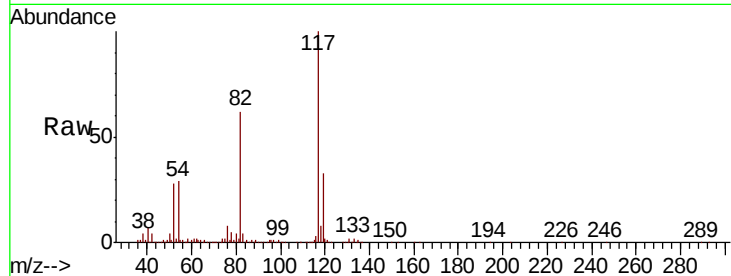
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2898
Delta R.T. 0.00 min
Lab File: VL032748.D
Acq: 14 Nov 2018 6:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:117 Resp: 4226238
Ion Ratio Lower Upper
117 100
82 61.8 51.0 76.6
119 27.0 28.0 42.0#

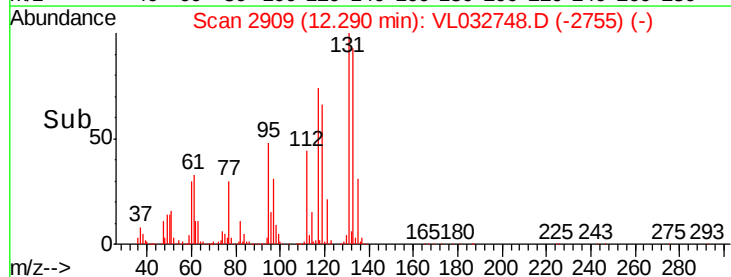
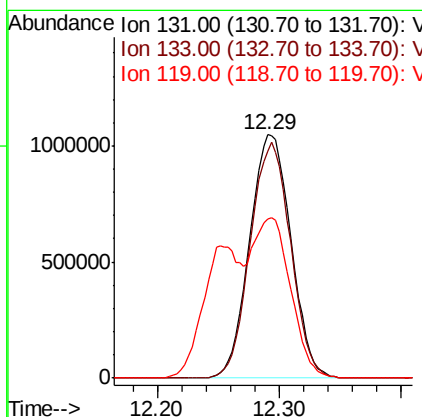
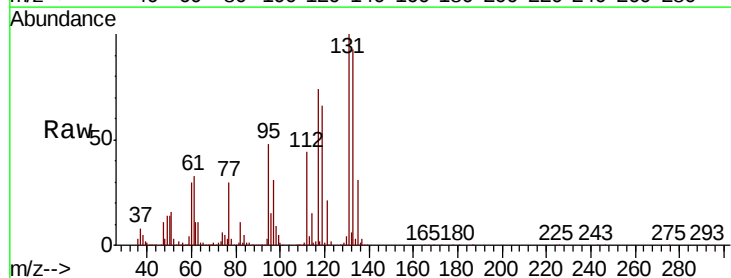
Manual Integrations
APPROVED

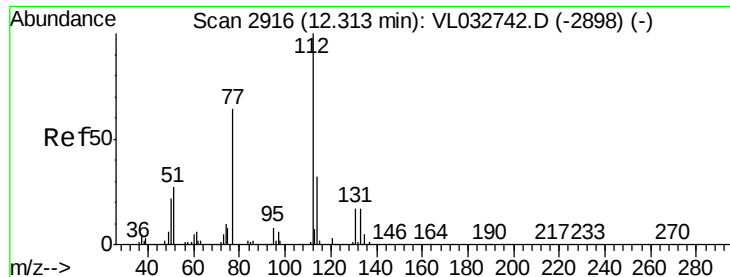
MMDadoda
11/16/2018 1:30:30 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 13.097 ppbv
RT: 12.29 min Scan# 2909
Delta R.T. -0.00 min
Lab File: VL032748.D
Acq: 14 Nov 2018 6:16

Tgt Ion:131 Resp: 2458749
Ion Ratio Lower Upper
131 100
133 94.8 75.8 113.6
119 66.7 45.2 67.8





#57

Chlorobenzene

Concen: 13.038 ppbv

RT: 12.32 min Scan# 2917

Delta R.T. 0.00 min

Lab File: VL032748.D

Acq: 14 Nov 2018 6:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 112 Resp: 4099481

Ion Ratio Lower Upper

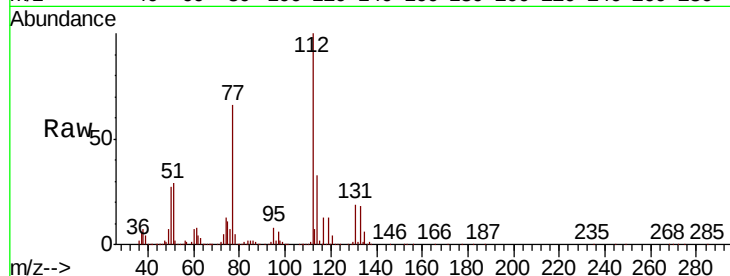
112 100

77 66.2 52.3 78.5

114 32.5 28.4 34.8

Manual Integrations
APPROVED

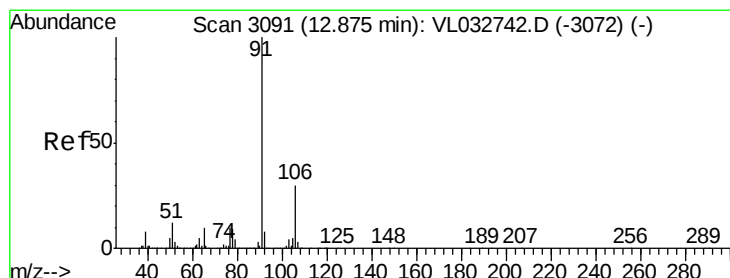
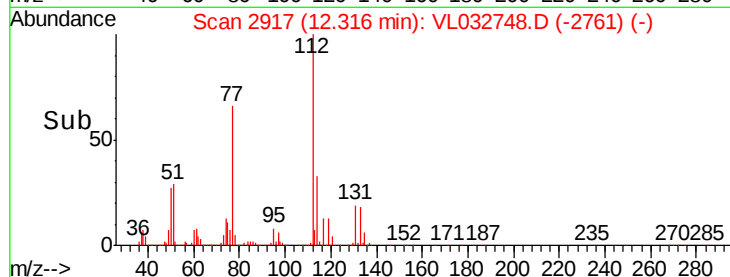
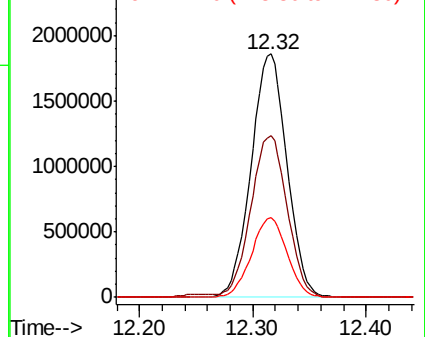
MMDadoda
11/16/2018 1:30:30 PM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 14.822 ppbv

RT: 12.88 min Scan# 3092

Delta R.T. 0.00 min

Lab File: VL032748.D

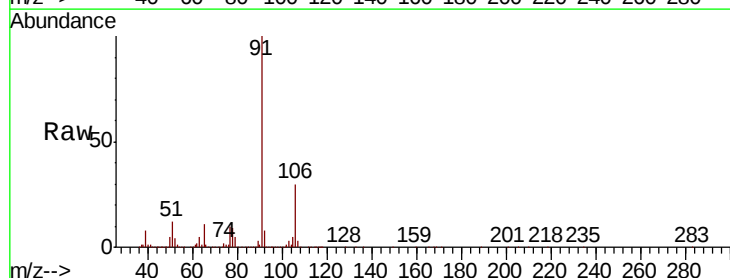
Acq: 14 Nov 2018 6:16

Tgt Ion: 91 Resp: 7352630

Ion Ratio Lower Upper

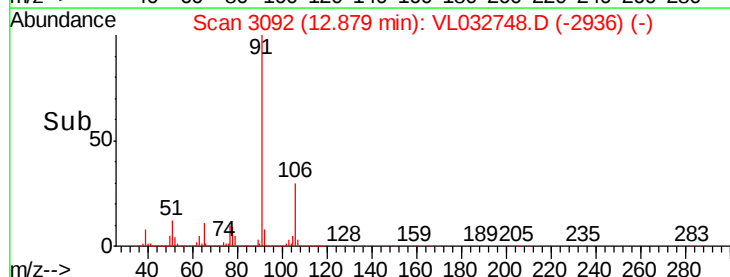
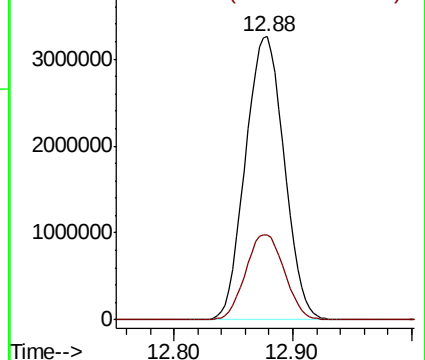
91 100

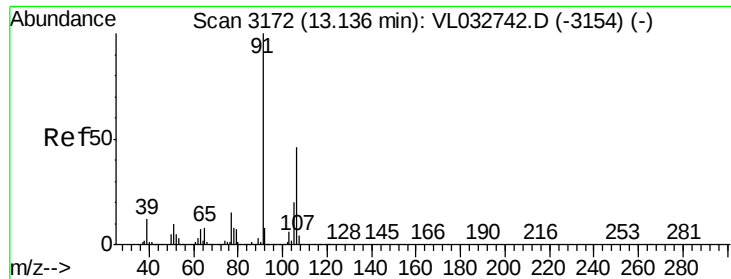
106 29.9 23.6 35.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 27.662 ppbv m

RT: 13.16 min Scan# 3180

Delta R.T. 0.03 min

Lab File: VL032748.D

Acq: 14 Nov 2018 6:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp:12211619

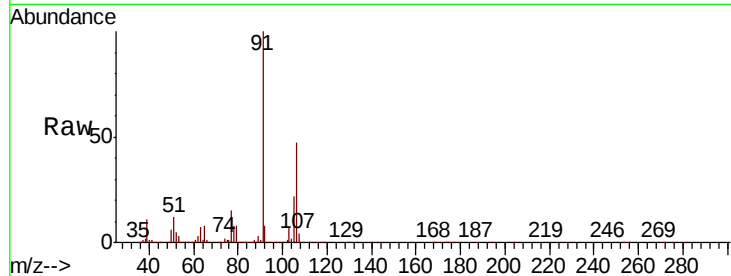
Ion Ratio Lower Upper

91 100

106 0.0 36.1 54.1#

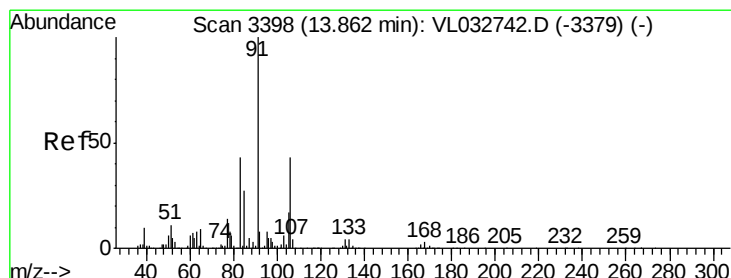
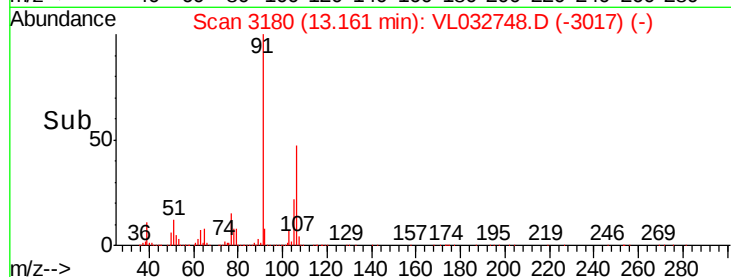
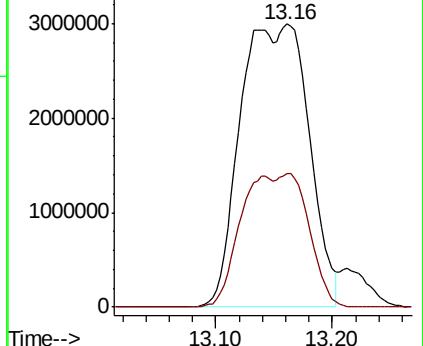
Manual Integrations
APPROVED

MMDadoda
11/16/2018 1:30:30 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 13.929 ppbv

RT: 13.86 min Scan# 3398

Delta R.T. -0.00 min

Lab File: VL032748.D

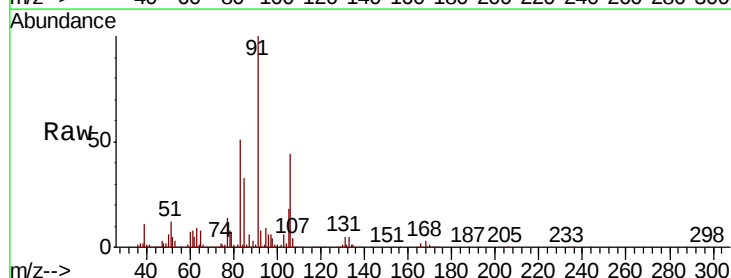
Acq: 14 Nov 2018 6:16

Tgt Ion: 91 Resp: 5972381

Ion Ratio Lower Upper

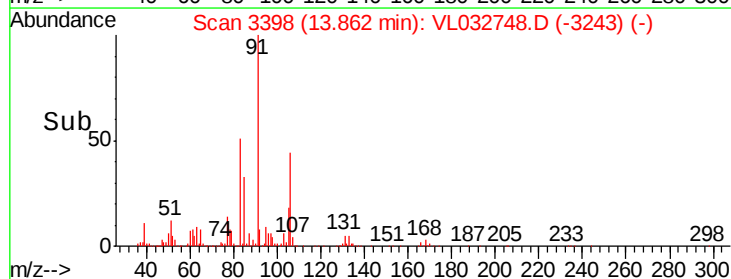
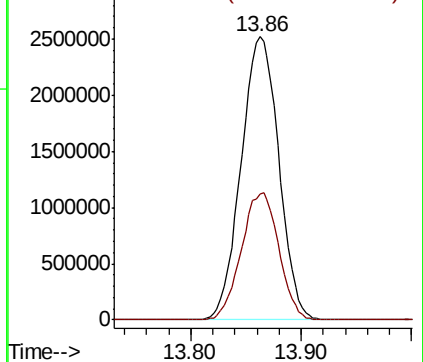
91 100

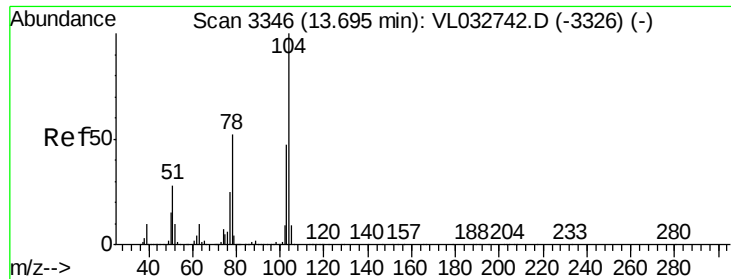
106 44.6 21.9 65.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





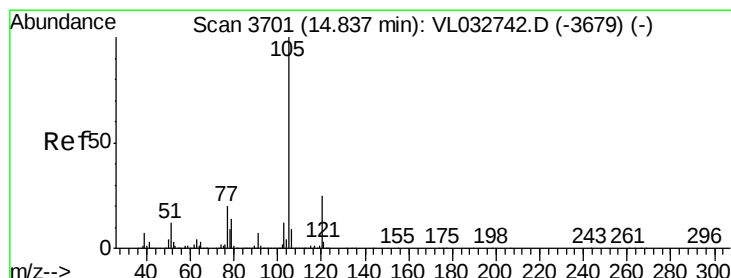
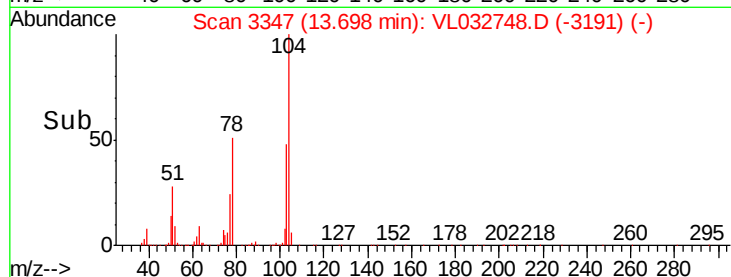
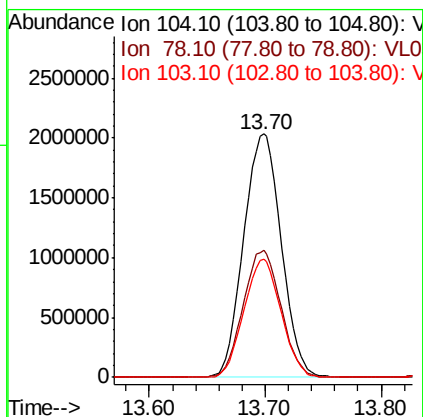
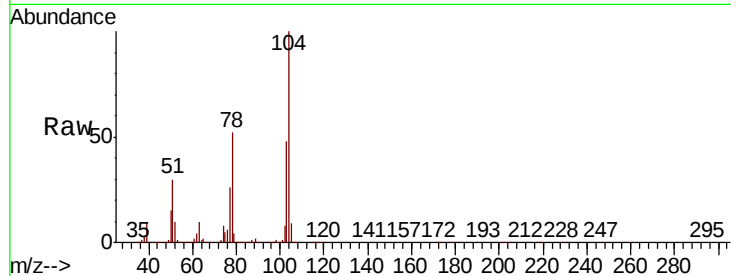
#61
Stvrene
Concen: 15.970 ppbv
RT: 13.70 min Scan# 3347
Delta R.T. 0.00 min
Lab File: VL032748.D
Acq: 14 Nov 2018 6:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
104	100		
78	52.5	42.2	63.4
103	48.0	38.2	57.2

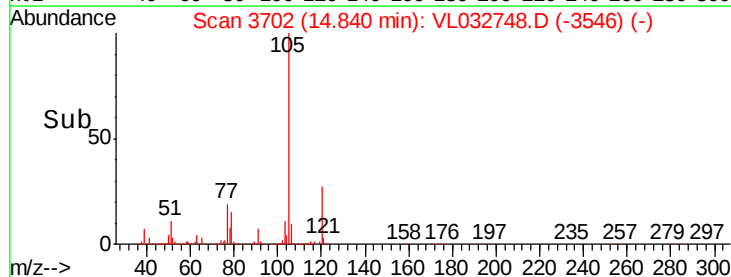
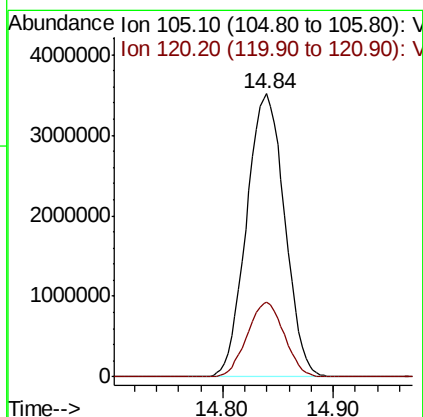
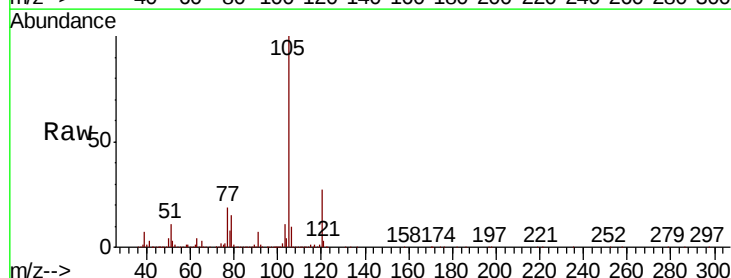
Manual Integrations
APPROVED

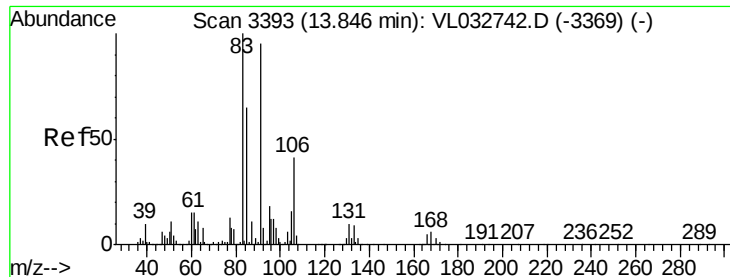
MMDadoda
11/16/2018 1:30:30 PM



#62
Isopropylbenzene
Concen: 13.891 ppbv
RT: 14.84 min Scan# 3702
Delta R.T. 0.00 min
Lab File: VL032748.D
Acq: 14 Nov 2018 6:16

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.7	20.1	30.1





#63

1,1,2,2-Tetrachloroethane

Concen: 12.390 ppbv

RT: 13.85 min Scan# 3394

Delta R.T. 0.00 min

Lab File: VL032748.D

Acq: 14 Nov 2018 6:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 83 Resp: 4129951

Ion Ratio Lower Upper

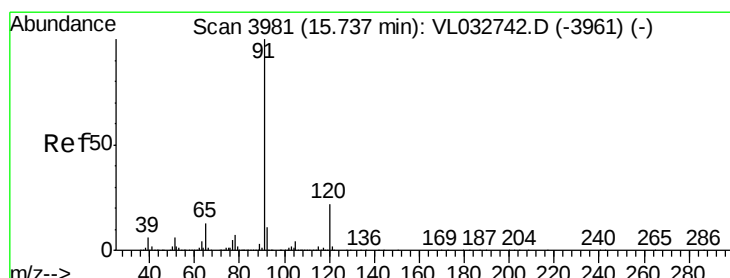
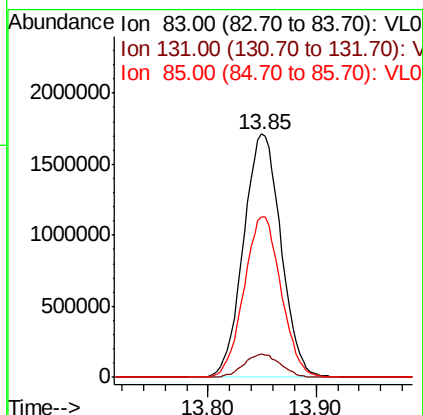
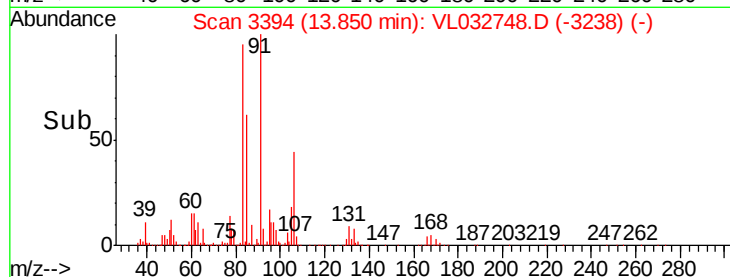
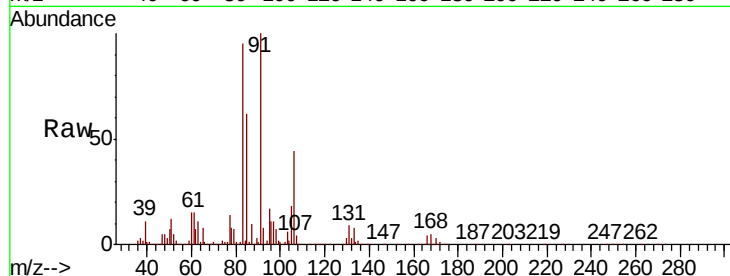
83 100

131 9.5 4.7 14.1

85 65.5 32.5 97.4

Manual Integrations
APPROVED

MMDadoda
11/16/2018 1:30:30 PM



#64

n-propylbenzene

Concen: 15.002 ppbv

RT: 15.73 min Scan# 3980

Delta R.T. -0.00 min

Lab File: VL032748.D

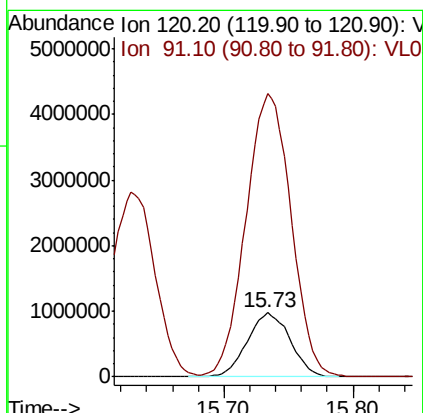
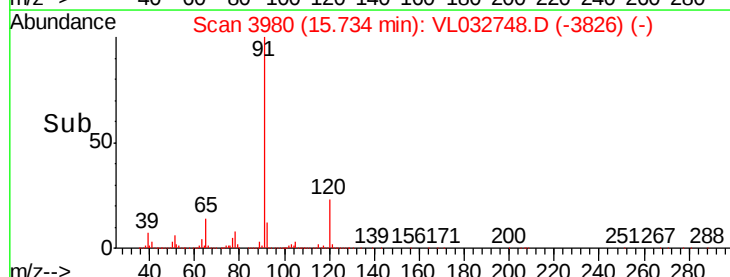
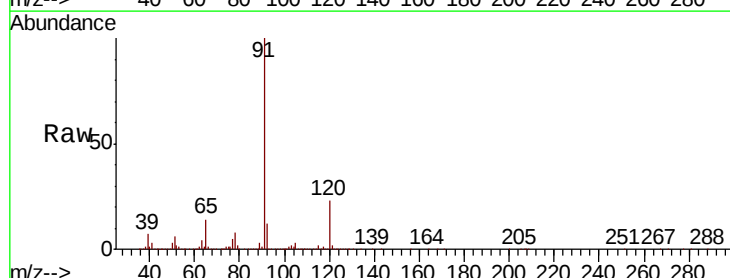
Acq: 14 Nov 2018 6:16

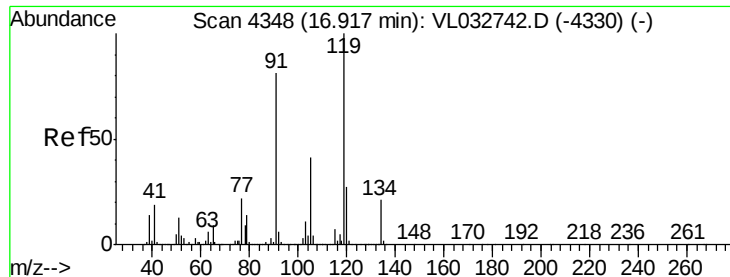
Tgt Ion:120 Resp: 2275404

Ion Ratio Lower Upper

120 100

91 463.8 381.7 572.5





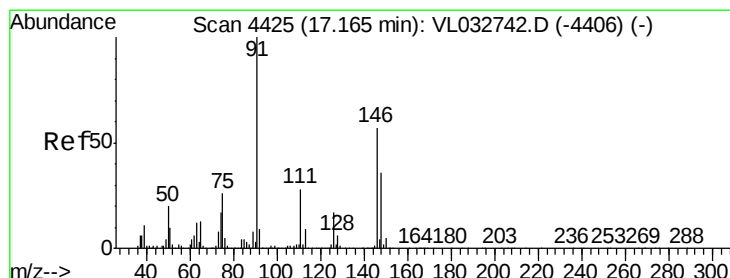
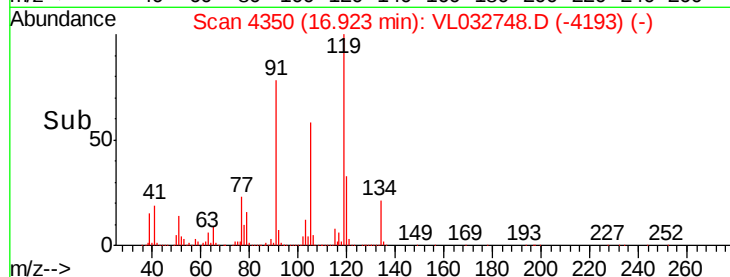
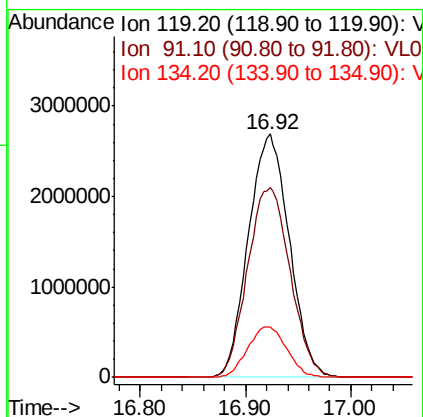
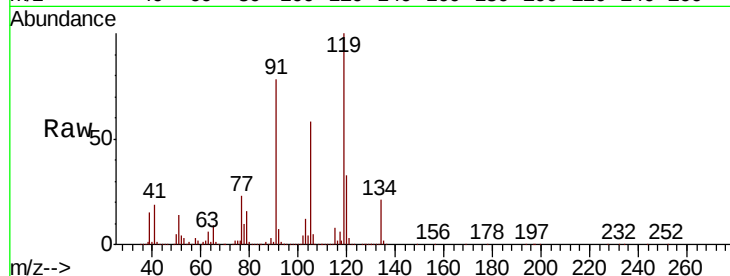
#65
tert-Butylbenzene
Concen: 13.902 ppbv
RT: 16.92 min Scan# 4350
Delta R.T. 0.01 min
Lab File: VL032748.D
Acq: 14 Nov 2018 6:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
119	100		
91	81.3	65.6	98.4
134	20.0	15.9	23.9

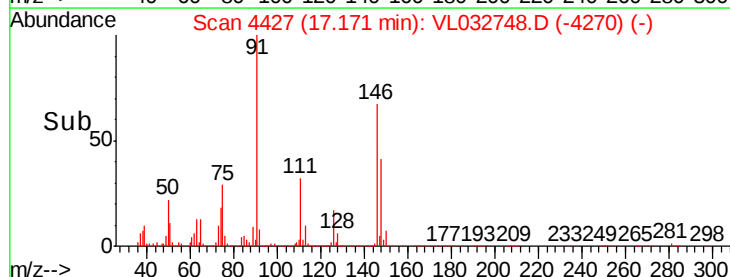
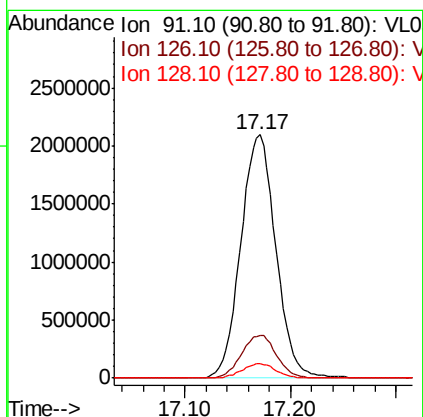
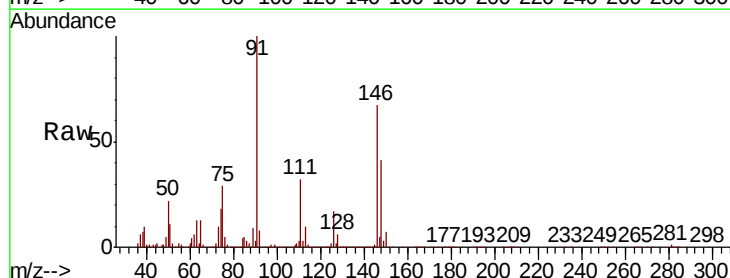
Manual Integrations
APPROVED

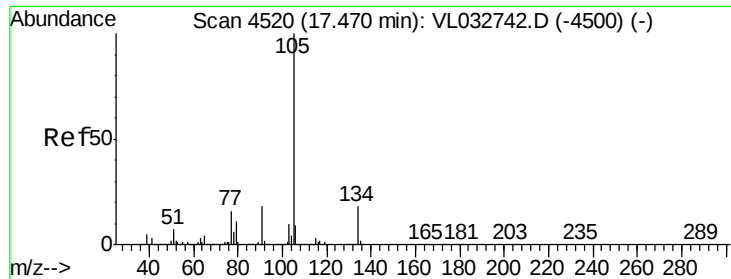
MMDadoda
11/16/2018 1:30:30 PM



#66
Benzyl Chloride
Concen: 17.753 ppbv
RT: 17.17 min Scan# 4427
Delta R.T. 0.01 min
Lab File: VL032748.D
Acq: 14 Nov 2018 6:16

Tgt Ion	Ratio	Lower	Upper
91	100		
126	17.7	14.2	21.2
128	5.8	4.5	6.7





#67

sec-Butylbenzene

Concen: 14.407 ppbv

RT: 17.47 min Scan# 4520

Delta R.T. -0.00 min

Lab File: VL032748.D

Acq: 14 Nov 2018 6:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp:10678566

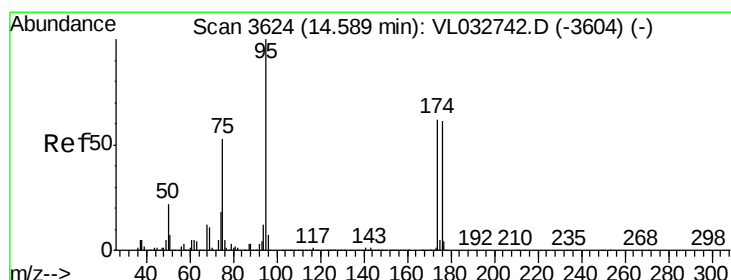
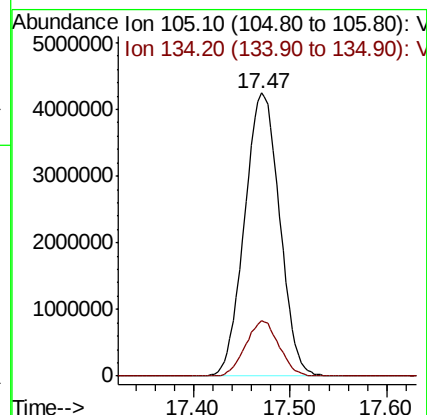
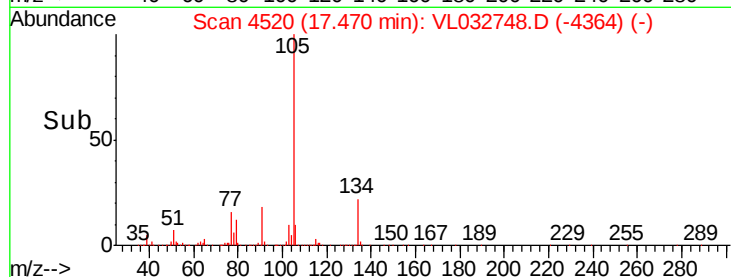
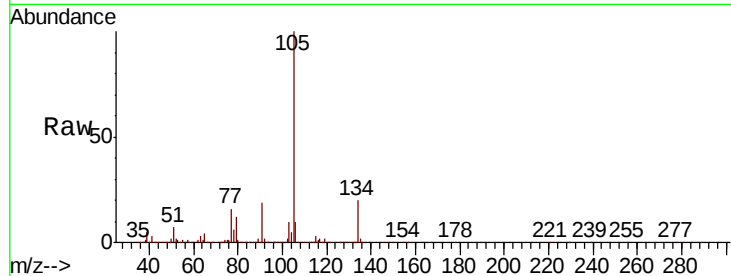
Ion Ratio Lower Upper

105 100

134 18.7 14.6 21.8

Manual Integrations
APPROVED

MMDadoda
11/16/2018 1:30:30 PM



#68

1-Bromo-4-Fluorobenzene

Concen: 9.476 ppbv

RT: 14.59 min Scan# 3624

Delta R.T. -0.00 min

Lab File: VL032748.D

Acq: 14 Nov 2018 6:16

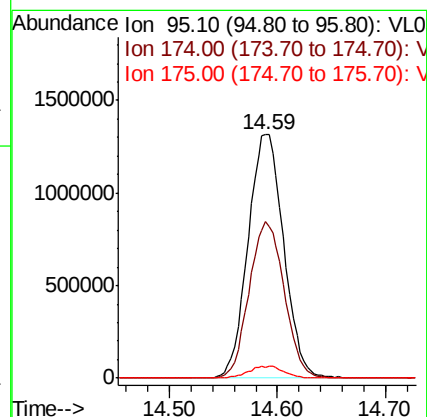
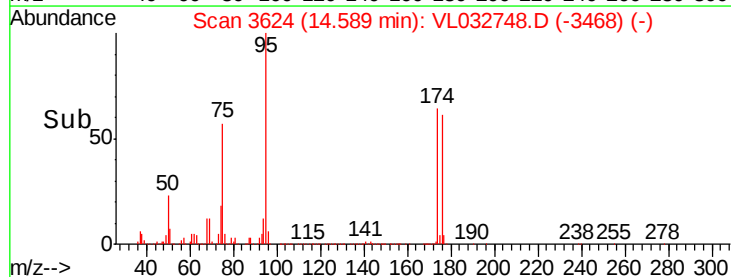
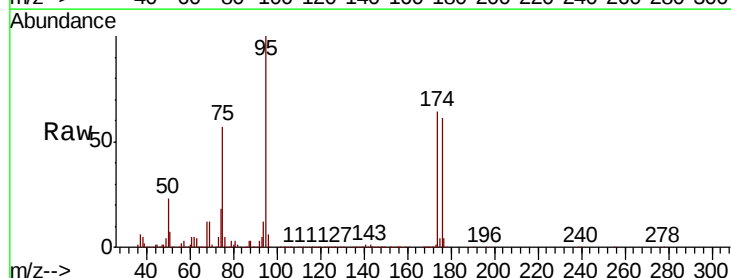
Tgt Ion: 95 Resp: 3018401

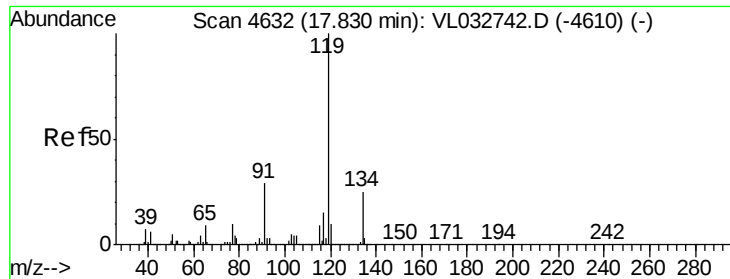
Ion Ratio Lower Upper

95 100

174 63.3 50.7 76.1

175 4.8 3.8 5.6





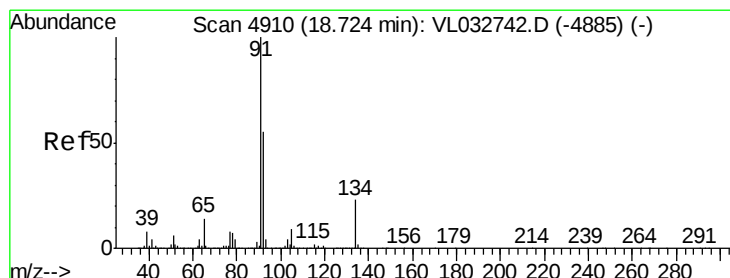
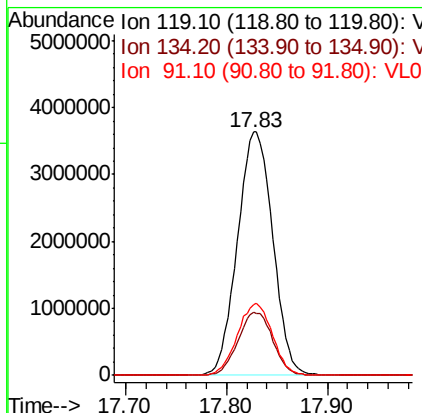
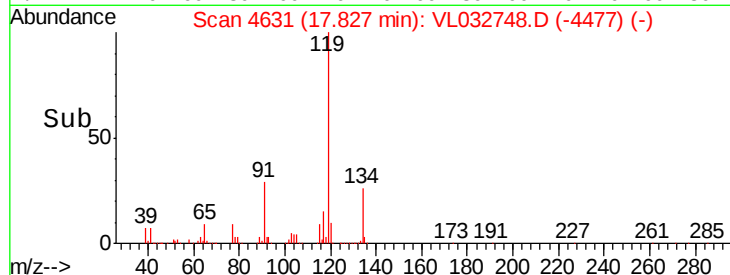
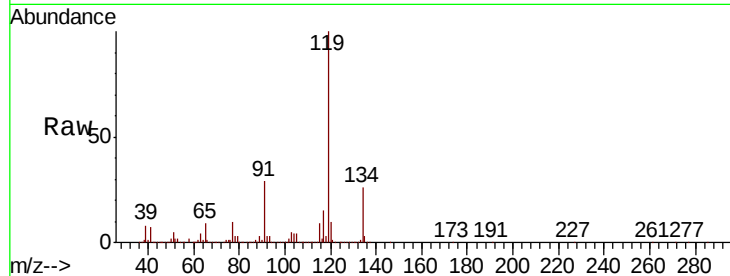
#69
 p-Isopropyltoluene
 Concen: 14.993 ppbv
 RT: 17.83 min Scan# 4631
 Delta R.T. -0.00 min
 Lab File: VL032748.D
 Acq: 14 Nov 2018 6:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.5	20.2	30.4
91	29.3	23.5	35.3

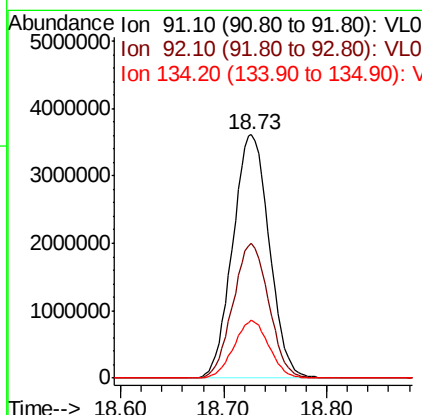
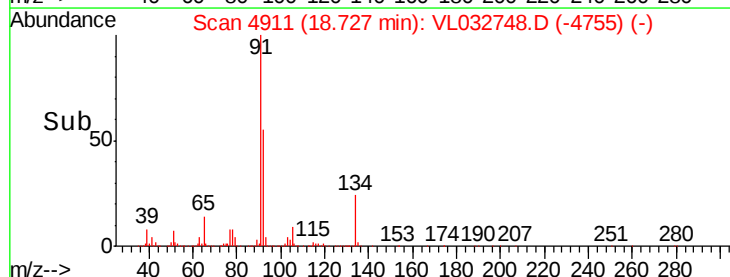
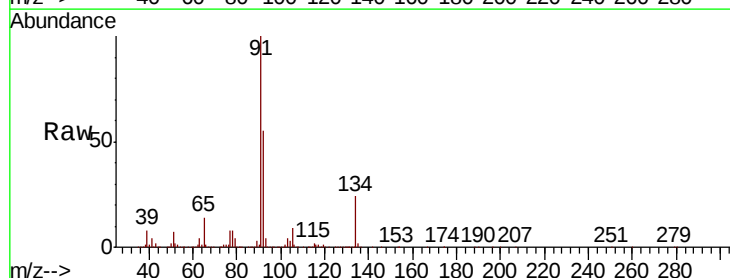
Manual Integrations
 APPROVED

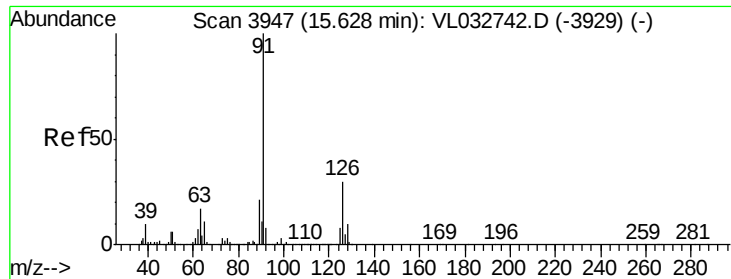
MMDadoda
 11/16/2018 1:30:30 PM



#70
 n-Butylbenzene
 Concen: 14.697 ppbv
 RT: 18.73 min Scan# 4911
 Delta R.T. 0.00 min
 Lab File: VL032748.D
 Acq: 14 Nov 2018 6:16

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.5	42.9	64.3
134	22.8	17.8	26.8





#71

2-Chlorotoluene

Concen: 15.230 ppbv

RT: 15.63 min Scan# 3947

Delta R.T. -0.00 min

Lab File: VL032748.D

Acq: 14 Nov 2018 6:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 6625413

Ion Ratio Lower Upper

91 100

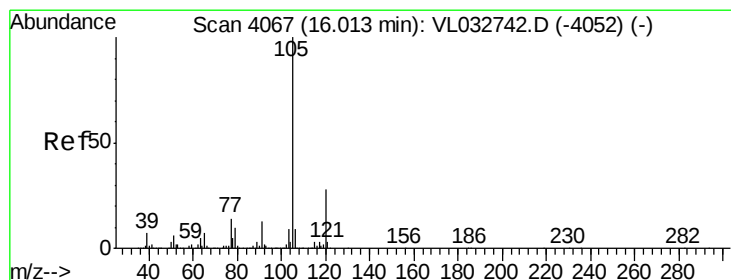
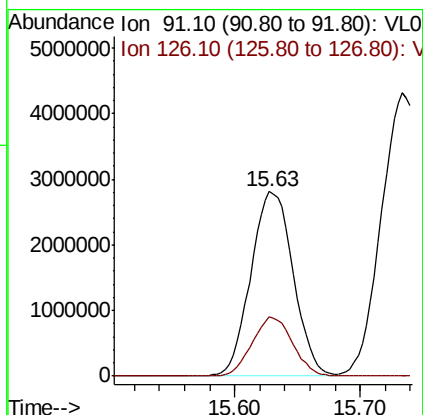
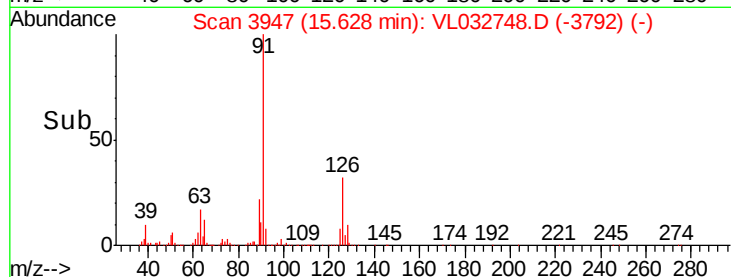
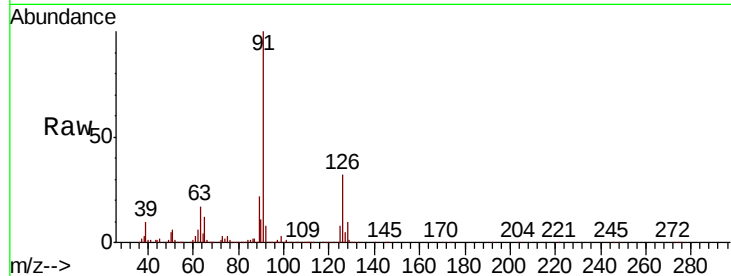
126 30.7 12.1 48.5

Manual Integrations

APPROVED

MMDadoda

11/16/2018 1:30:30 PM



#72

4-Ethyltoluene

Concen: 15.750 ppbv

RT: 16.01 min Scan# 4067

Delta R.T. -0.00 min

Lab File: VL032748.D

Acq: 14 Nov 2018 6:16

Tgt Ion: 105 Resp: 7269890

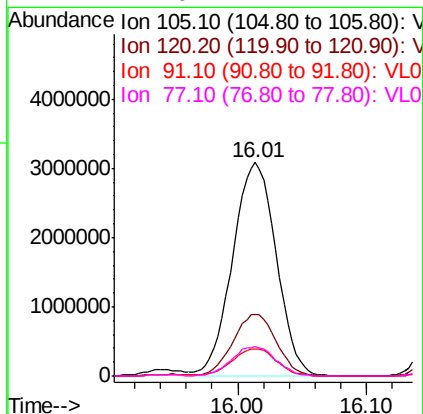
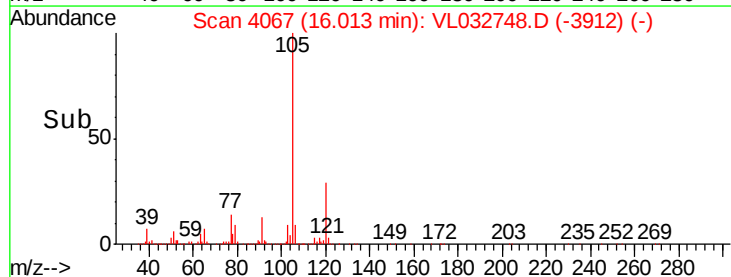
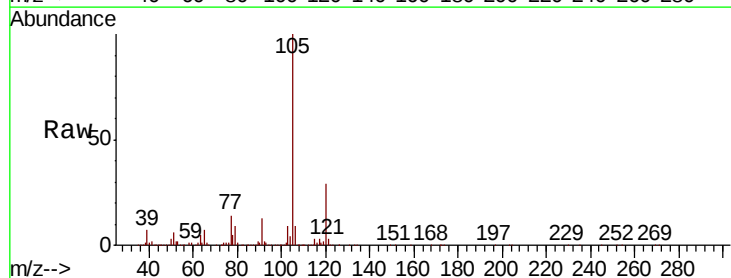
Ion Ratio Lower Upper

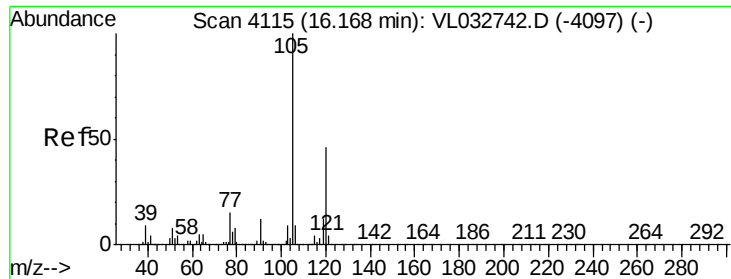
105 100

120 28.8 22.9 34.3

91 12.9 10.6 15.8

77 14.0 11.4 17.2





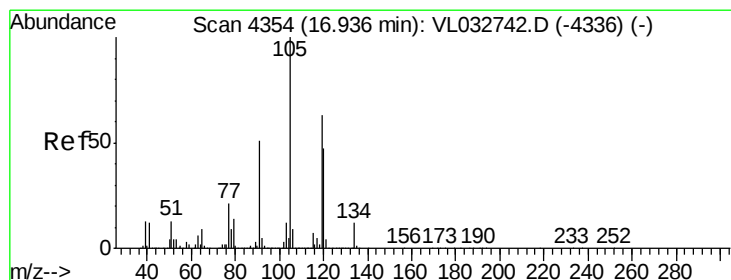
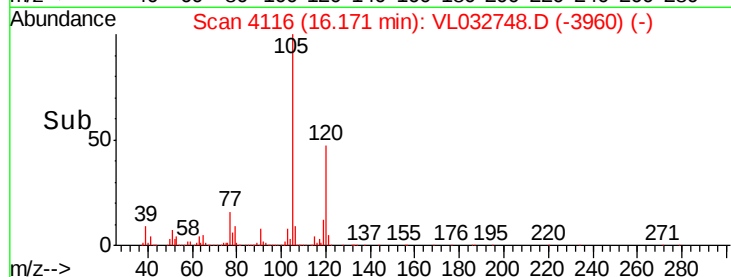
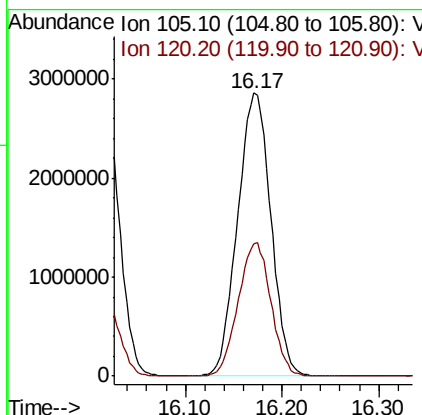
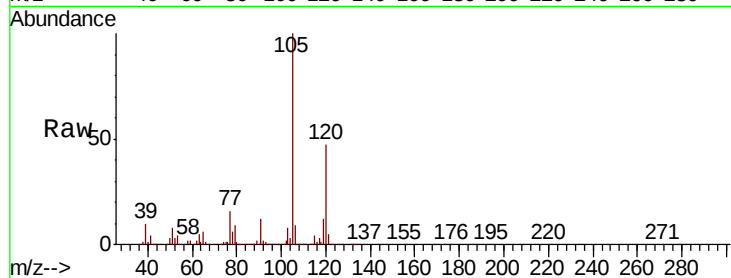
#73
 1,3,5-Trimethylbenzene
 Concen: 15.170 ppbv
 RT: 16.17 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VL032748.D
 Acq: 14 Nov 2018 6:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:105 Resp: 6824834
 Ion Ratio Lower Upper
 105 100
 120 46.6 36.6 55.0

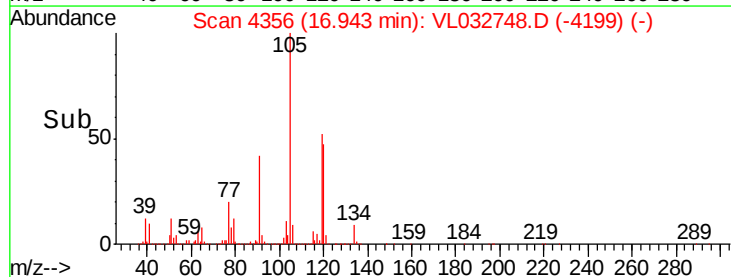
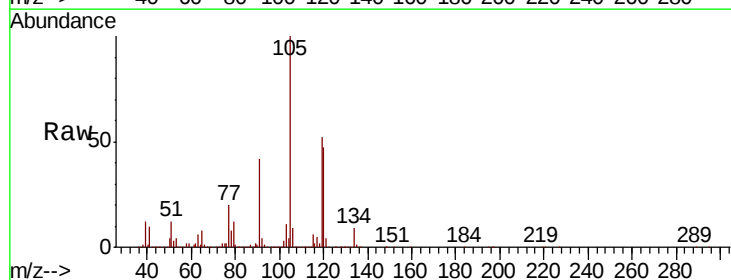
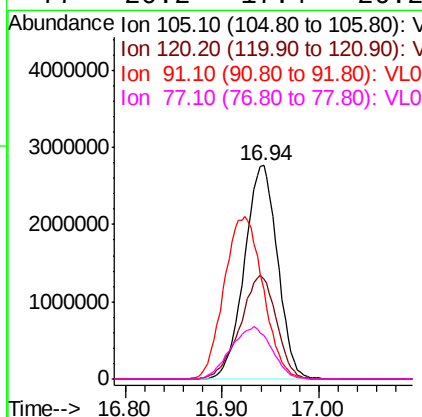
Manual Integrations
 APPROVED

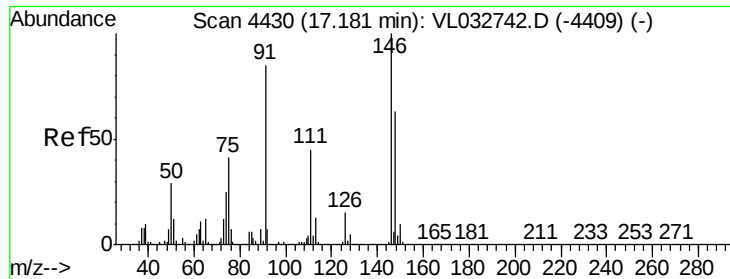
MMDadoda
 11/16/2018 1:30:30 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 13.730 ppbv
 RT: 16.94 min Scan# 4356
 Delta R.T. 0.01 min
 Lab File: VL032748.D
 Acq: 14 Nov 2018 6:16

Tgt Ion:105 Resp: 6587090
 Ion Ratio Lower Upper
 105 100
 120 46.9 37.6 56.4
 91 41.7 42.5 63.7#
 77 20.2 17.4 26.2





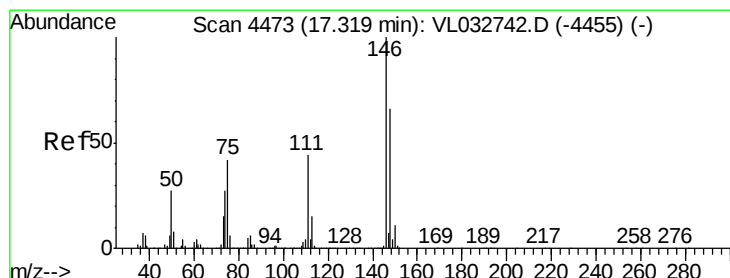
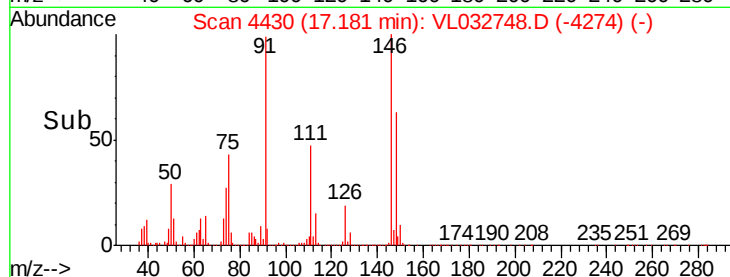
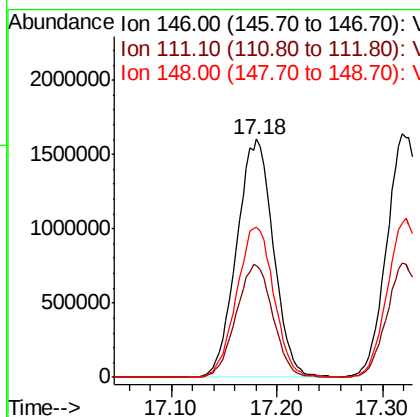
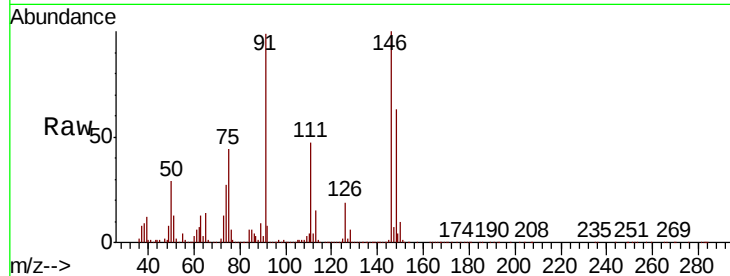
#75
 1,3-Dichlorobenzene
 Concen: 14.024 ppbv
 RT: 17.18 min Scan# 4430
 Delta R.T. -0.00 min
 Lab File: VL032748.D
 Acq: 14 Nov 2018 6:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.4	23.5	70.6
148	64.0	31.8	95.3

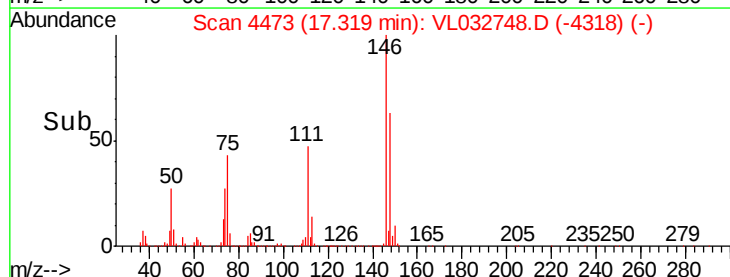
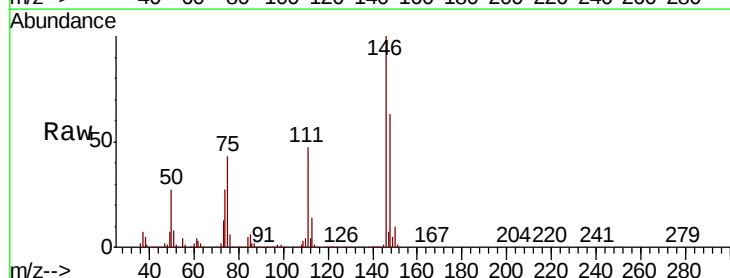
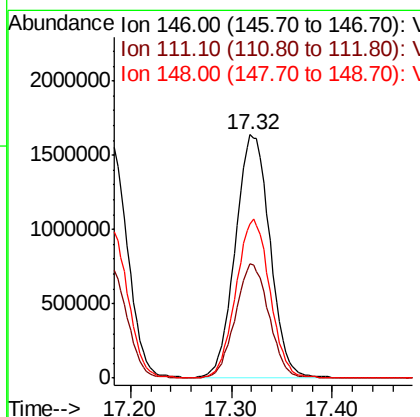
Manual Integrations
 APPROVED

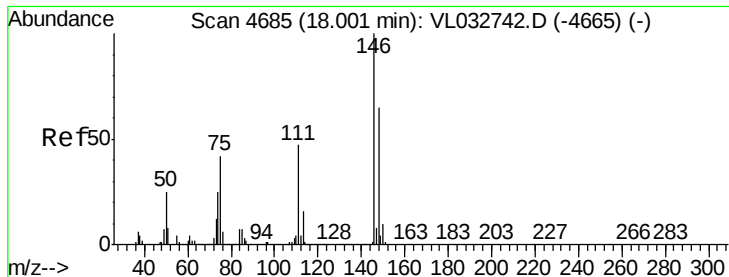
MMDadoda
 11/16/2018 1:30:30 PM



#76
 1,4-Dichlorobenzene
 Concen: 15.173 ppbv
 RT: 17.32 min Scan# 4473
 Delta R.T. -0.00 min
 Lab File: VL032748.D
 Acq: 14 Nov 2018 6:16

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.9	22.5	67.5
148	64.5	32.5	97.5





#77

1,2-Dichlorobenzene

Concen: 14.398 ppbv

RT: 18.00 min Scan# 4686

Delta R.T. 0.00 min

Lab File: VL032748.D

Acq: 14 Nov 2018 6:16

Instrument :

MSVOA_L

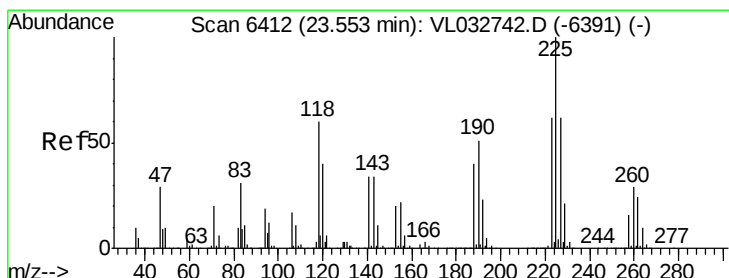
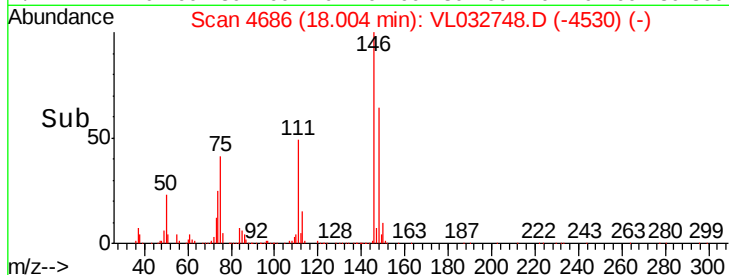
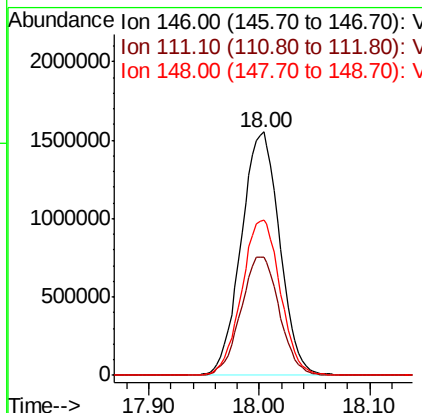
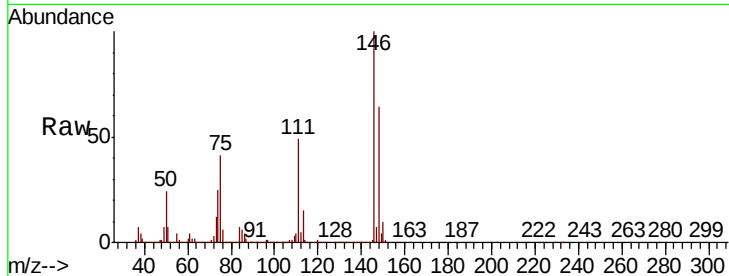
ClientSampleId :

VSTDIC015

Tot Ion:	146	Resp:	3754650
Ion	Ratio	Lower	Upper
146	100		
111	48.7	24.4	73.2
148	64.2	32.2	96.6

Manual Integrations
APPROVED

MMDadoda
11/16/2018 1:30:30 PM



#78

Hexachloro-1,3-Butadiene

Concen: 12.498 ppbv

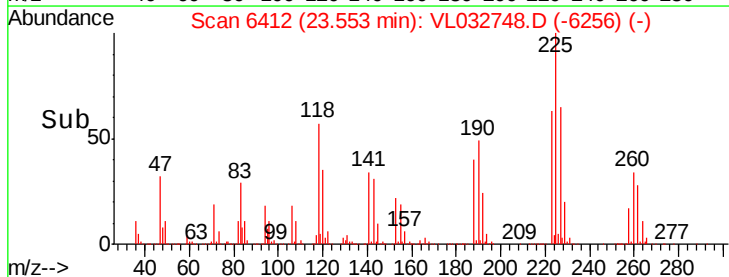
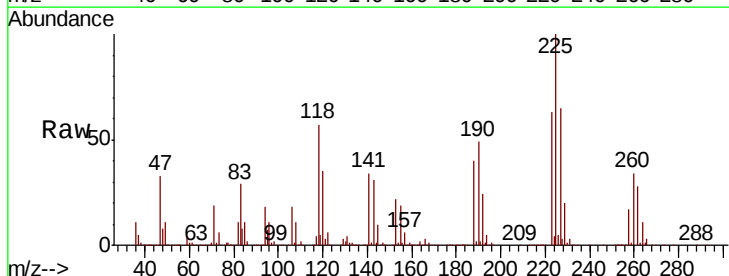
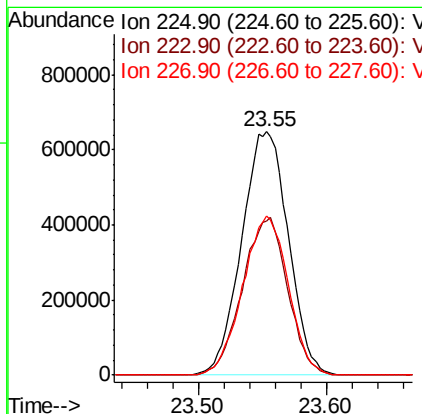
RT: 23.55 min Scan# 6412

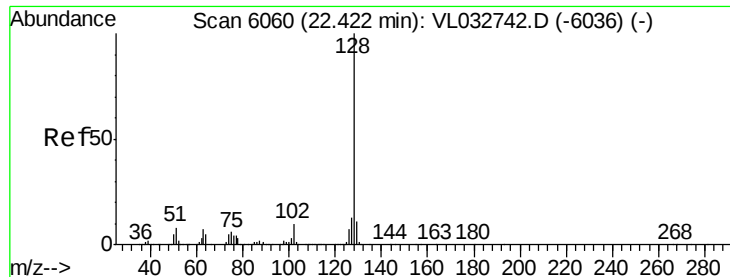
Delta R.T. -0.00 min

Lab File: VL032748.D

Acq: 14 Nov 2018 6:16

Tgt Ion:	225	Resp:	1651389
Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.3	75.5
227	63.7	50.2	75.4





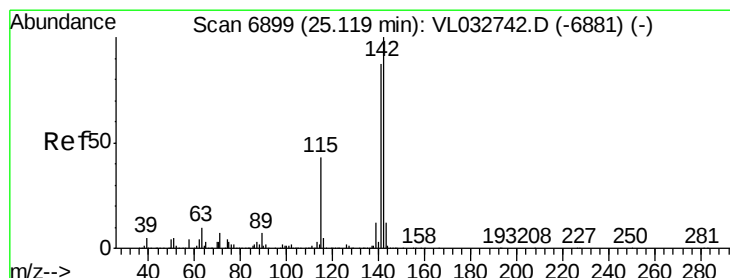
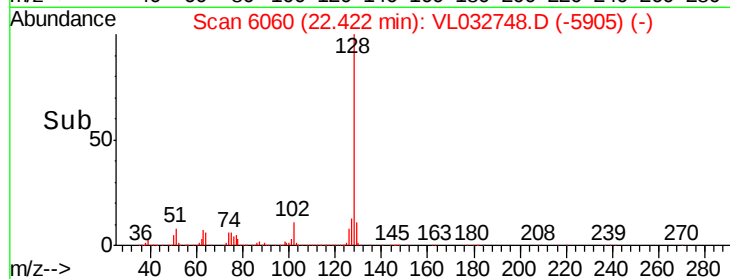
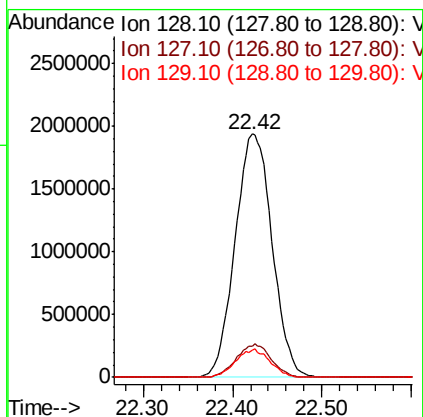
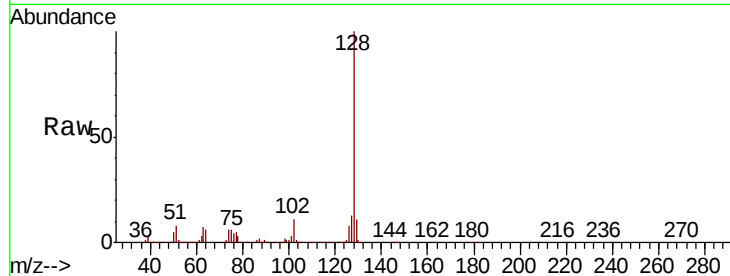
#79
Naphthalene
Concen: 18.495 ppbv
RT: 22.42 min Scan# 6060
Delta R.T. -0.00 min
Lab File: VL032748.D
Acq: 14 Nov 2018 6:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.1	15.1
129	11.2	8.9	13.3

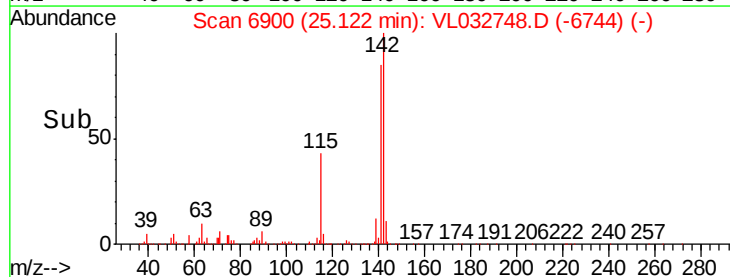
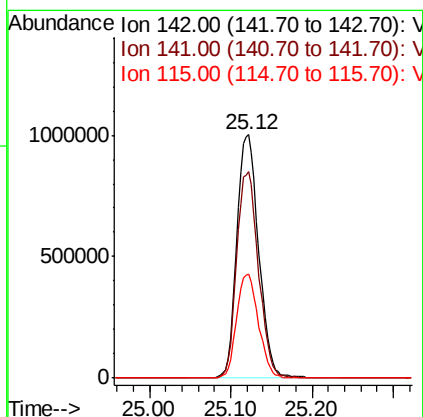
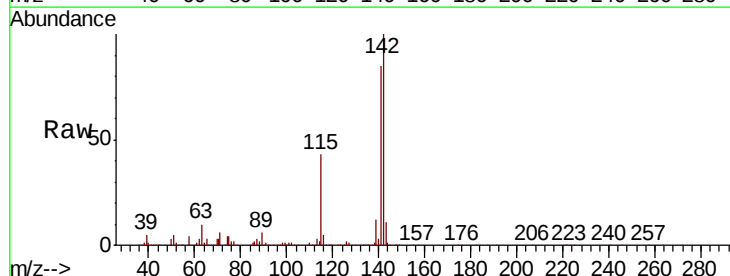
Manual Integrations
APPROVED

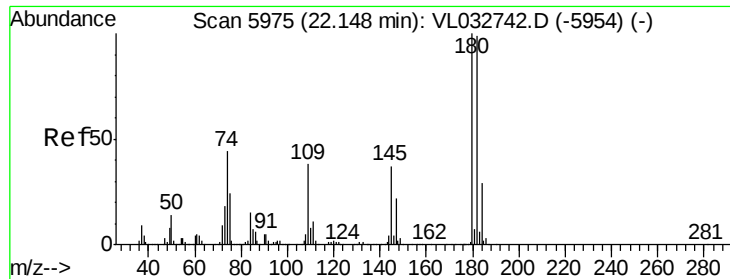
MMDadoda
11/16/2018 1:30:30 PM



#80
Naphthalene, 2-methyl-
Concen: 25.902 ppbv
RT: 25.12 min Scan# 6900
Delta R.T. 0.00 min
Lab File: VL032748.D
Acq: 14 Nov 2018 6:16

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.9	68.7	103.1
115	43.0	35.5	53.3





#81
 1,2,4-Trichlorobenzene
 Concen: 17.293 ppbv
 RT: 22.15 min Scan# 5974
 Delta R.T. -0.00 min
 Lab File: VL032748.D
 Acq: 14 Nov 2018 6:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.5	77.3	115.9
184	30.8	24.2	36.4

Manual Integrations
 APPROVED

MMDadoda
 11/16/2018 1:30:30 PM

