

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL121317\
 Data File : VL031214.D
 Acq On : 13 Dec 2017 23:45
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 12/15/2017 4:06:55 PM

Quant Time: Dec 14 04:00:03 2017
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL121317AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Dec 14 2017
 QLast Update : Thu Dec 14 03:40:57 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.91	49	2346824	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.45	114	5304461	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	4553144	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.75	95	3219547	9.15	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.50%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.18	85	152916	0.64	ppbv	96
3) Chlorodifluoromethane	3.12	51	201731	0.63	ppbv	100
4) Chloromethane	3.27	50	106817	0.89	ppbv	94
5) Vinyl Chloride	3.40	62	104456	0.79	ppbv	98
6) Bromomethane	3.63	94	65540	0.82	ppbv	95
7) Chloroethane	3.71	64	39932	0.85	ppbv	93
8) Dichlorotetrafluoroethane	3.32	85	237758	0.85	ppbv	99
9) Propene	3.13	41	94699	0.71	ppbv	100
10) Heptane	8.41	43	393984	0.99	ppbv	99
11) Trichlorofluoromethane	4.13	101	251408	0.89	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.68	101	235480	1.41	ppbv	99
13) Ethanol	3.77	45	32994	1.29	ppbv	100
14) Bromoethene	3.91	108	74814	0.87	ppbv	98
15) Acetone	4.03	43	255318	1.08	ppbv	95
16) 1,3-Butadiene	3.47	39	101661	0.92	ppbv	98
17) tert-Butyl alcohol	4.50	59	130551	1.14	ppbv #	94
18) 1,1-Dichloroethene	4.48	96	78620	0.97	ppbv	92
19) Isopropyl Alcohol	4.16	45	143687	1.04	ppbv	90
20) Methylene Chloride	4.54	84	80227	0.98	ppbv	98
21) Allyl Chloride	4.61	41	137520	1.17	ppbv	98
22) trans-1,2-Dichloroethene	5.10	96	127310	1.25	ppbv	100
23) Vinyl Acetate	5.30	43	587654	1.40	ppbv	99
24) 1,1-Dichloroethane	5.23	63	385459	1.07	ppbv	99
25) Ethyl Acetate	5.92	43	671389	1.15	ppbv	99
26) Hexane	5.93	57	321751	1.13	ppbv	98
27) Carbon Disulfide	4.76	76	295611	1.48	ppbv #	76
28) Methyl tert-Butyl Ether	5.26	73	415600	1.32	ppbv	100
29) Chloroform	5.99	83	427287	1.05	ppbv	100
30) Cyclohexane	7.41	84	240599	1.06	ppbv #	74
31) cis-1,2-Dichloroethene	5.78	61	286635	1.05	ppbv	93
32) 1,1,1-Trichloroethane	6.77	97	407024	1.20	ppbv	100
34) 2-Butanone	5.48	43	441842	1.02	ppbv	99
35) Carbon Tetrachloride	7.29	117	400418	1.07	ppbv	97
36) Benzene	7.16	78	602730	0.99	ppbv	98
37) 1,2-Dichloroethane	6.57	62	329813	0.92	ppbv	98
38) Trichloroethene	8.12	130	224596	0.97	ppbv	98
39) 1,2-Dichloropropane	7.89	63	210855	0.91	ppbv	96
40) 1,4-Dioxane	8.14	88	76563	0.83	ppbv #	83
41) Tetrahydrofuran	6.31	42	236581	1.04	ppbv	98
42) Bromodichloromethane	8.08	83	405179	0.95	ppbv	99
43) Methyl Methacrylate	8.30	69	206503	0.97	ppbv	100

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL121317\
 Data File : VL031214.D
 Acq On : 13 Dec 2017 23:45
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

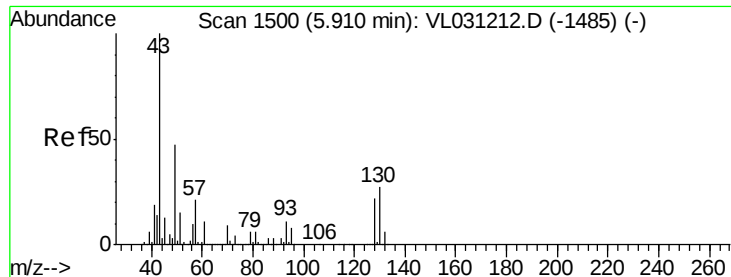
Manual Integrations
 APPROVED

MMDadoda
 12/15/2017 4:06:55 PM

Quant Time: Dec 14 04:00:03 2017
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL121317AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Dec 14 2017
 QLast Update : Thu Dec 14 03:40:57 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.15	57	980883	0.97	ppbv	99
45) t-1,3-Dichloropropene	9.58	75	263146	1.00	ppbv	96
46) cis-1,3-Dichloropropene	9.00	75	341724	0.98	ppbv	99
47) 1,1,2-Trichloroethane	9.78	97	223329	0.91	ppbv	95
48) Dibromochloromethane	10.62	129	335266	1.01	ppbv	100
49) Bromoform	13.37	173	230309	0.92	ppbv	99
50) 4-Methyl-2-Pentanone	9.04	43	505837	0.92	ppbv	100
51) 2-Hexanone	10.45	43	456366	0.88	ppbv #	98
52) Tetrachloroethene	11.55	164	208816	0.97	ppbv	95
53) Toluene	10.11	91	668029	0.97	ppbv	97
54) 1,2-Dibromoethane	10.93	107	326425	0.93	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.45	131	231849	1.24	ppbv #	1
57) Chlorobenzene	12.47	112	489064	1.10	ppbv	97
58) Ethyl Benzene	13.03	91	857730	1.10	ppbv	99
59) m/p-Xylene	13.32	91	1391975m	2.12	ppbv	
60) o-Xylene	14.02	91	687075	1.05	ppbv	100
61) Styrene	13.85	104	189060	1.15	ppbv	99
62) Isopropylbenzene	15.00	105	901523	1.15	ppbv	100
63) 1,1,2,2-Tetrachloroethane	14.01	83	442335	0.87	ppbv	99
64) n-propylbenzene	15.89	120	238350	1.11	ppbv	95
65) tert-Butylbenzene	17.08	119	812378	1.18	ppbv	98
66) Benzyl Chloride	17.33	91	79460	1.35	ppbv #	94
67) sec-Butylbenzene	17.63	105	1110498	1.07	ppbv	99
69) p-Isopropyltoluene	17.98	119	921311	1.15	ppbv	100
70) n-Butylbenzene	18.88	91	892777	1.01	ppbv	99
71) 2-Chlorotoluene	15.79	91	665926	1.05	ppbv	99
72) 4-Ethyltoluene	16.17	105	742189	1.12	ppbv	99
73) 1,3,5-Trimethylbenzene	16.32	105	664144	1.09	ppbv	95
74) 1,2,4-Trimethylbenzene	17.09	105	719730	1.07	ppbv #	89
75) 1,3-Dichlorobenzene	17.34	146	451087	1.06	ppbv	99
76) 1,4-Dichlorobenzene	17.48	146	446624	1.04	ppbv	97
77) 1,2-Dichlorobenzene	18.16	146	433187	1.03	ppbv	99
78) Hexachloro-1,3-Butadiene	23.71	225	97083	1.21	ppbv	99
79) Naphthalene	22.61	128	550270	1.21	ppbv	97
80) Naphthalene, 2-methyl-	25.25	142	178432	1.33	ppbv	97
81) 1,2,4-Trichlorobenzene	22.34	180	255582	1.12	ppbv	100

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.91 min Scan# 1499

Delta R.T. -0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 49 Resp: 2346824

Ion Ratio Lower Upper

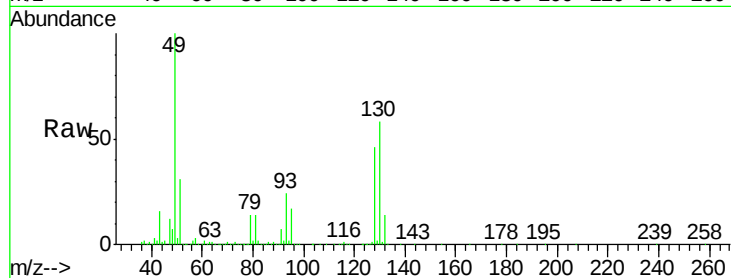
49 100

128 47.4 23.2 69.5

130 61.2 29.6 88.8

Manual Integrations
APPROVED

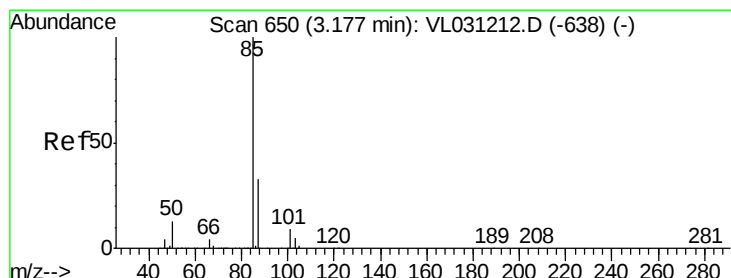
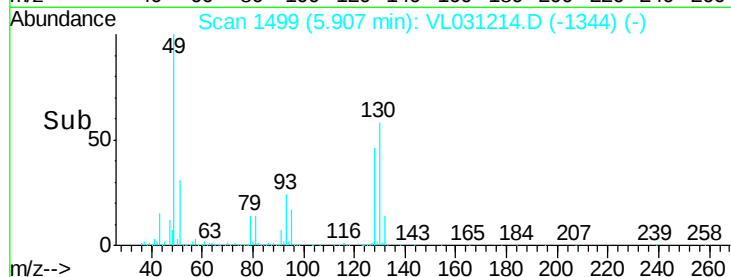
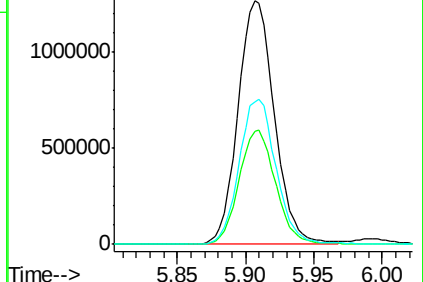
MMDadoda
12/15/2017 4:06:55 PM



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



#2

Dichlorodifluoromethane

Concen: 0.64 ppbv

RT: 3.18 min Scan# 650

Delta R.T. 0.00 min

Lab File: VL031214.D

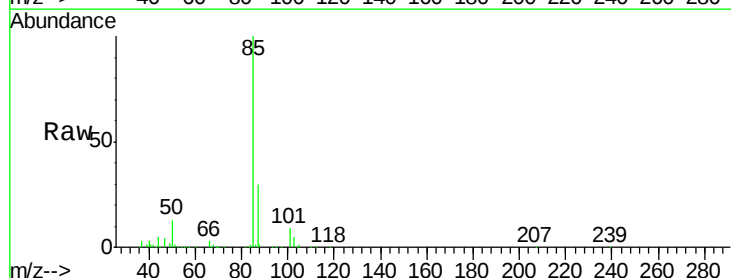
Acq: 13 Dec 2017 23:45

Tgt Ion: 85 Resp: 152916

Ion Ratio Lower Upper

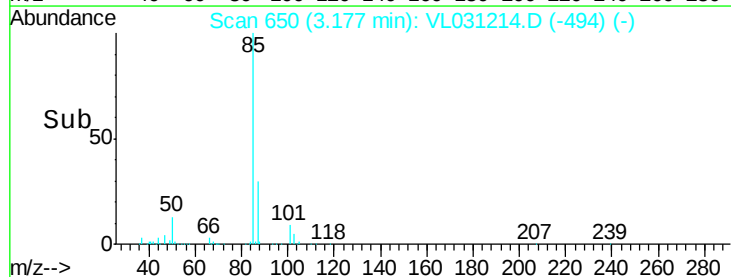
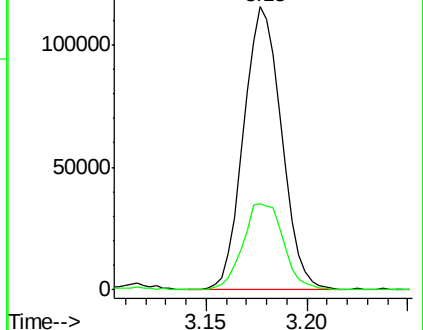
85 100

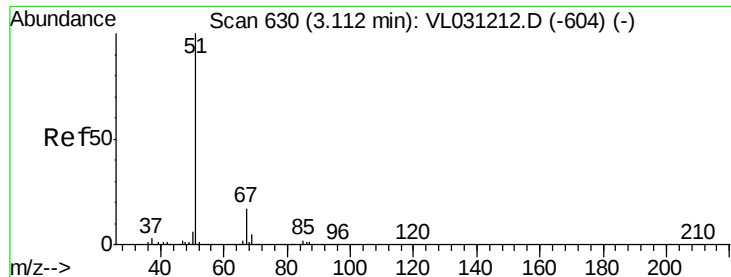
87 30.4 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.63 ppbv

RT: 3.12 min Scan# 631

Delta R.T. 0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 51 Resp: 201731

Ion Ratio Lower Upper

51 100

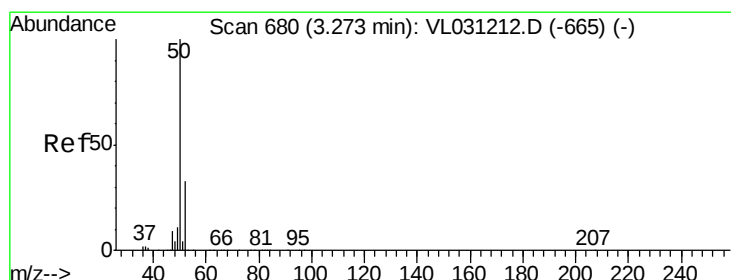
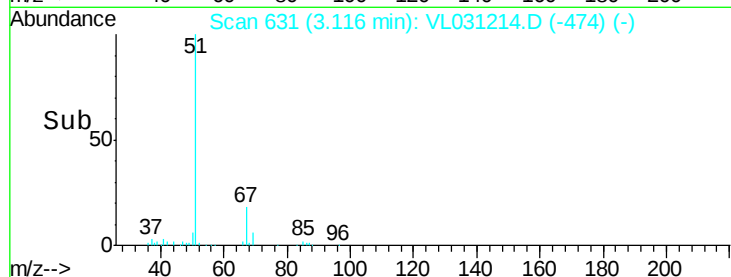
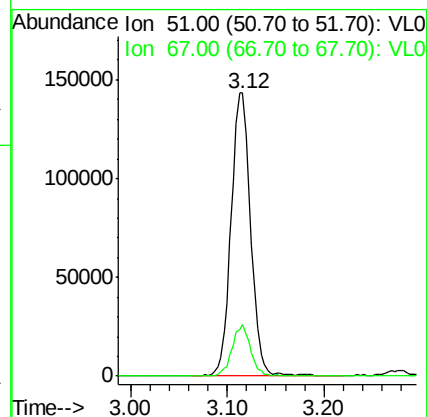
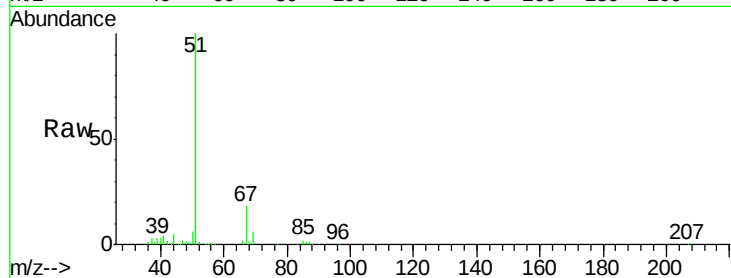
67 17.0 13.8 20.6

Manual Integrations

APPROVED

MMDadoda

12/15/2017 4:06:55 PM



#4

Chloromethane

Concen: 0.89 ppbv

RT: 3.27 min Scan# 680

Delta R.T. 0.00 min

Lab File: VL031214.D

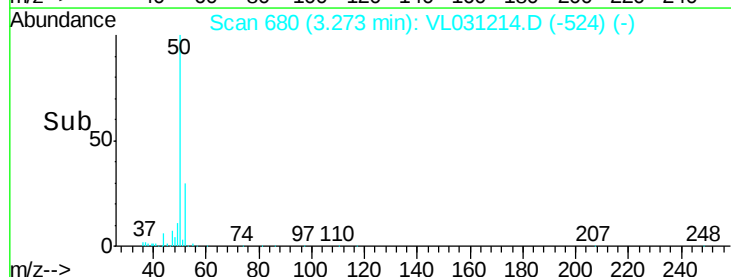
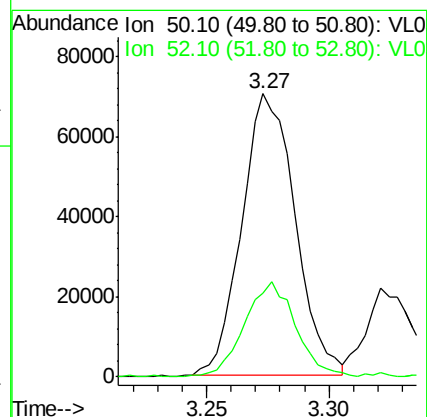
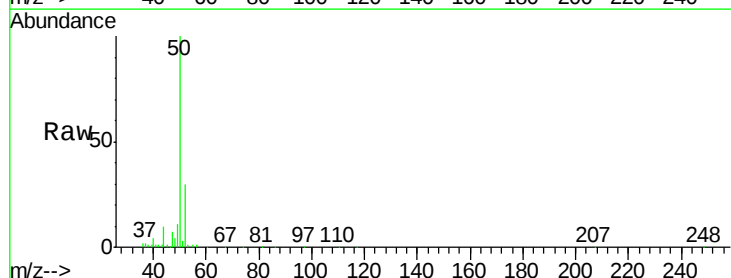
Acq: 13 Dec 2017 23:45

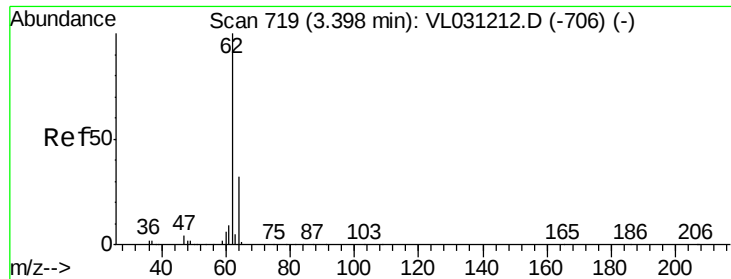
Tgt Ion: 50 Resp: 106817

Ion Ratio Lower Upper

50 100

52 29.4 26.5 39.7





#5

Vinyl Chloride

Concen: 0.79 ppbv

RT: 3.40 min Scan# 719

Delta R.T. 0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 62 Resp: 104456

Ion Ratio Lower Upper

62 100

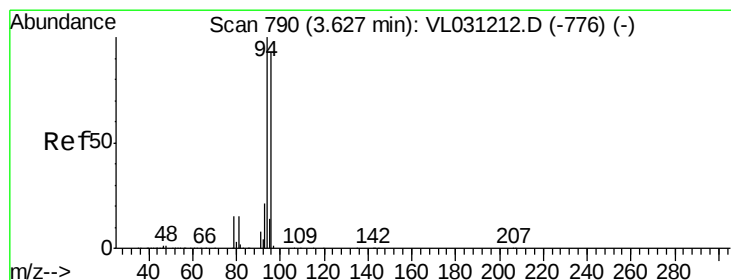
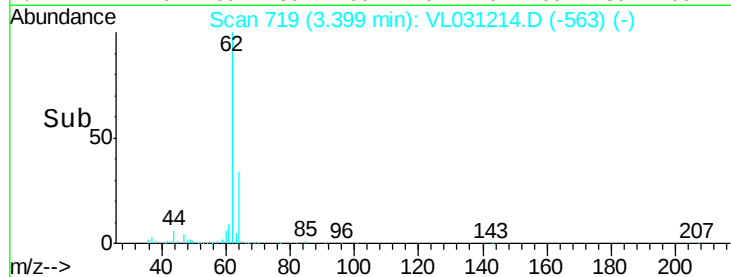
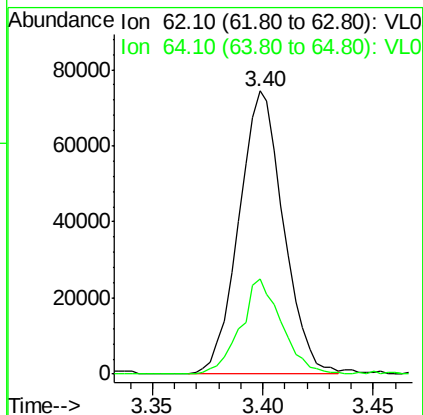
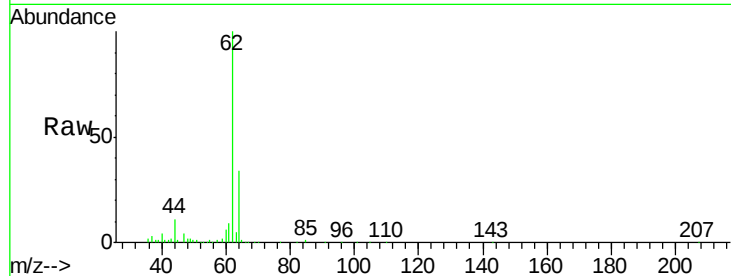
64 33.4 25.9 38.9

Manual Integrations

APPROVED

MMDadoda

12/15/2017 4:06:55 PM



#6

Bromomethane

Concen: 0.82 ppbv

RT: 3.63 min Scan# 790

Delta R.T. 0.00 min

Lab File: VL031214.D

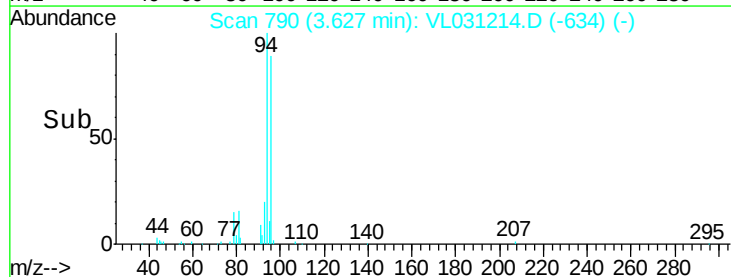
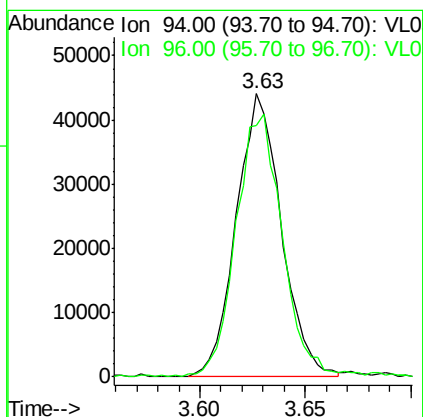
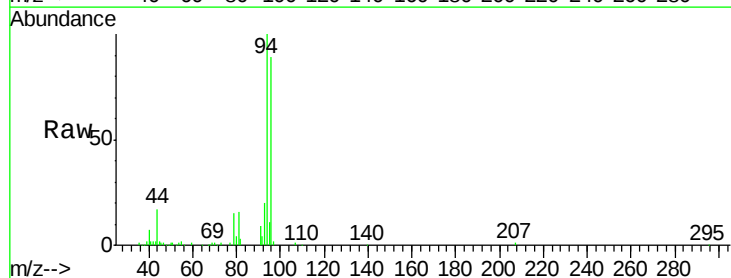
Acq: 13 Dec 2017 23:45

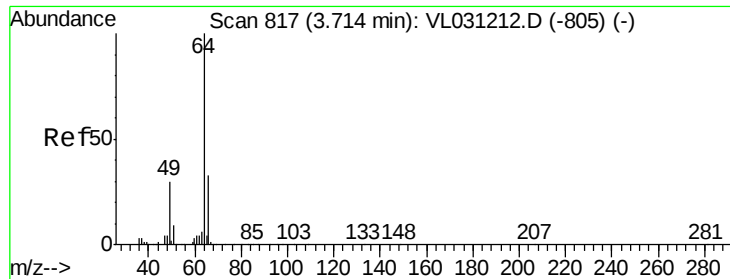
Tgt Ion: 94 Resp: 65540

Ion Ratio Lower Upper

94 100

96 87.8 74.4 111.6





#7

Chloroethane

Concen: 0.85 ppbv

RT: 3.71 min Scan# 817

Delta R.T. 0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 64 Resp: 39932

Ion Ratio Lower Upper

64 100

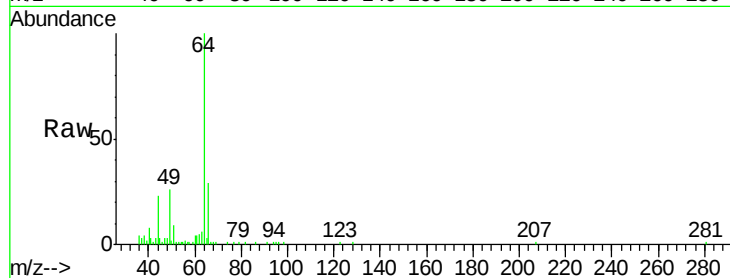
66 29.0 26.2 39.2

Manual Integrations

APPROVED

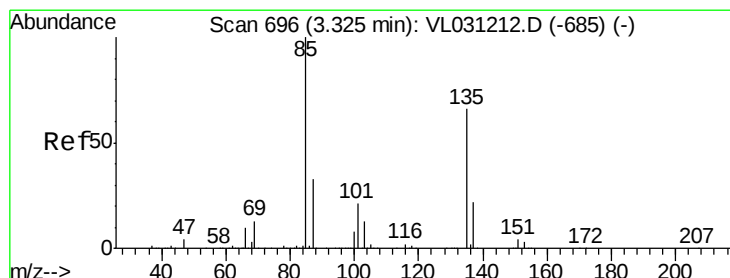
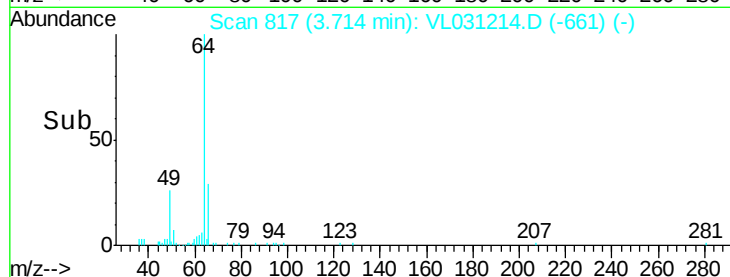
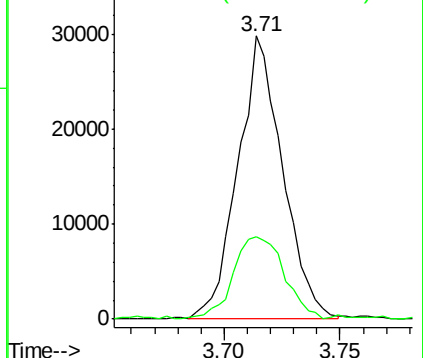
MMDadoda

12/15/2017 4:06:55 PM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.85 ppbv

RT: 3.32 min Scan# 696

Delta R.T. 0.00 min

Lab File: VL031214.D

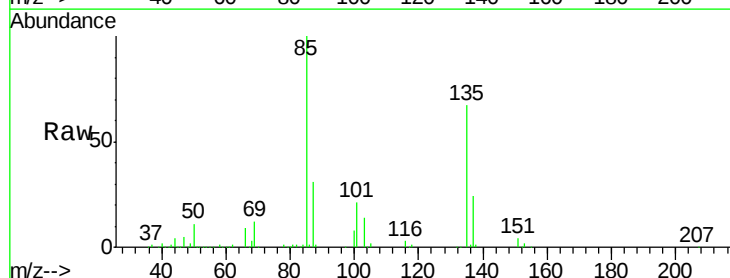
Acq: 13 Dec 2017 23:45

Tgt Ion: 85 Resp: 237758

Ion Ratio Lower Upper

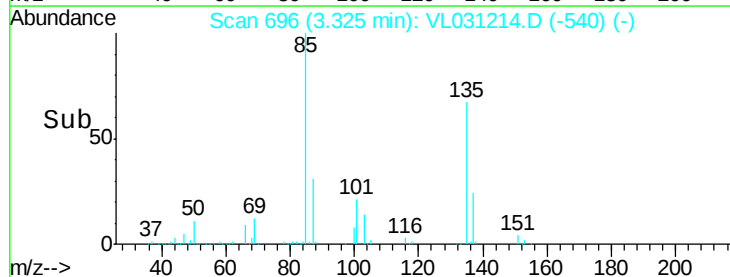
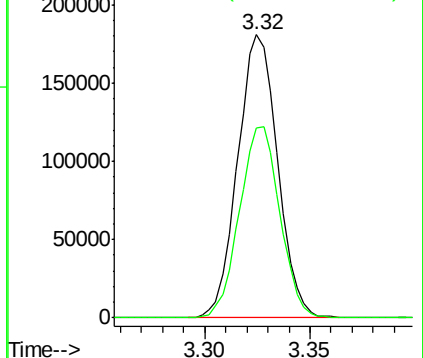
85 100

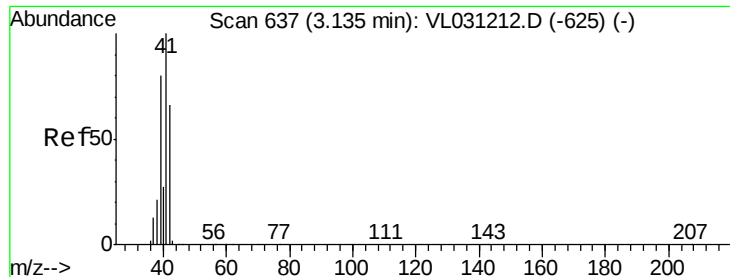
135 68.6 54.0 81.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.71 ppbv

RT: 3.13 min Scan# 637

Delta R.T. 0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 41 Resp: 94699

Ion Ratio Lower Upper

41 100

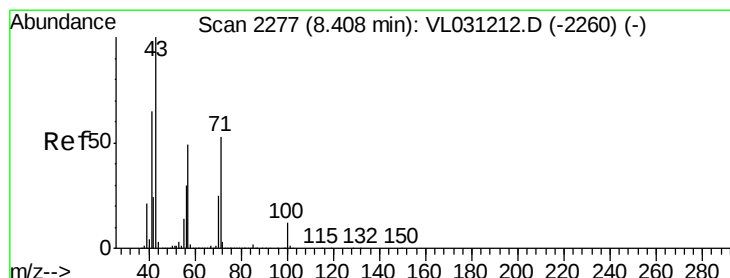
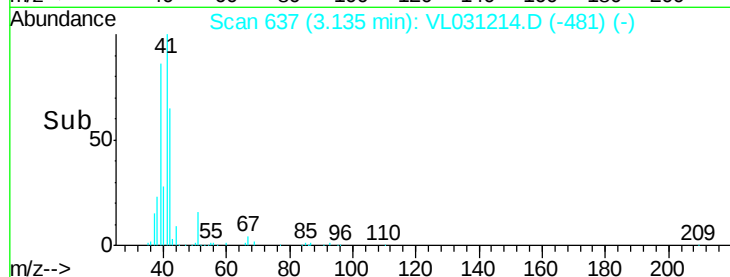
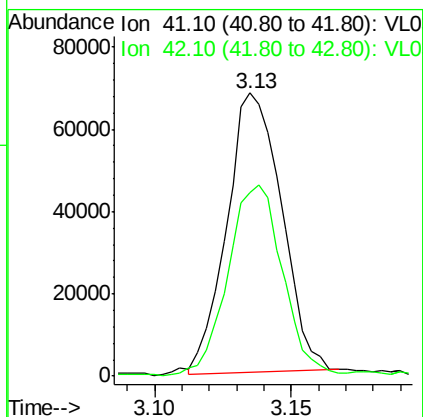
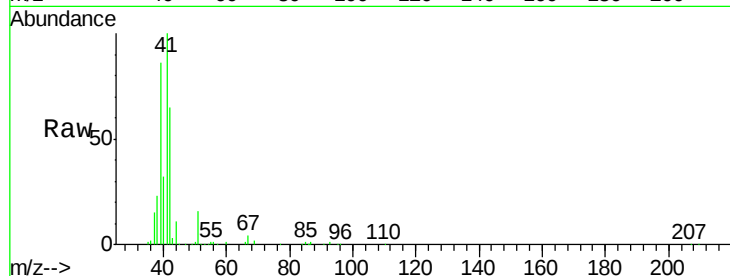
42 68.0 54.3 81.5

Manual Integrations

APPROVED

MMDadoda

12/15/2017 4:06:55 PM



#10

Heptane

Concen: 0.99 ppbv

RT: 8.41 min Scan# 2277

Delta R.T. 0.00 min

Lab File: VL031214.D

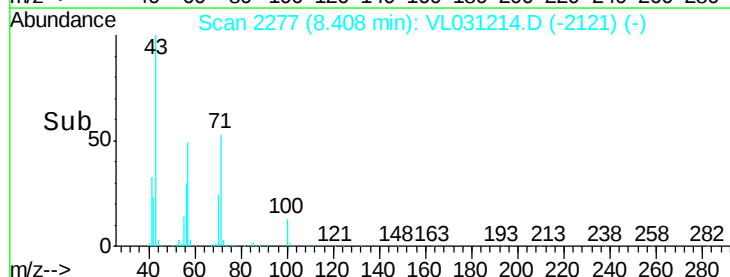
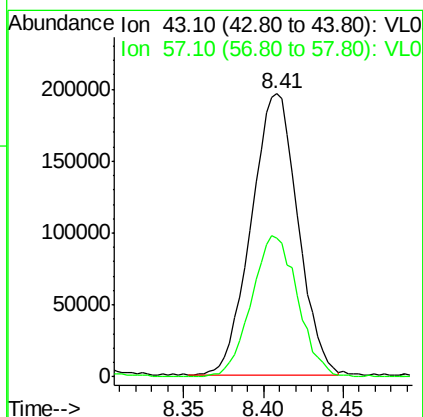
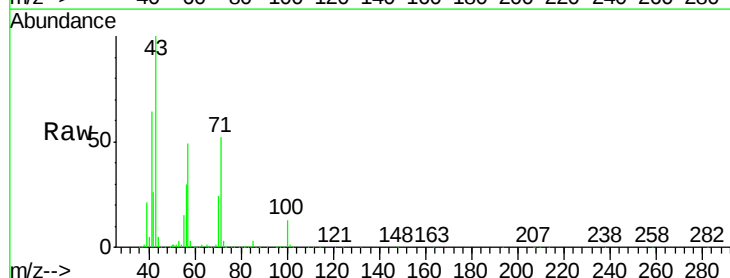
Acq: 13 Dec 2017 23:45

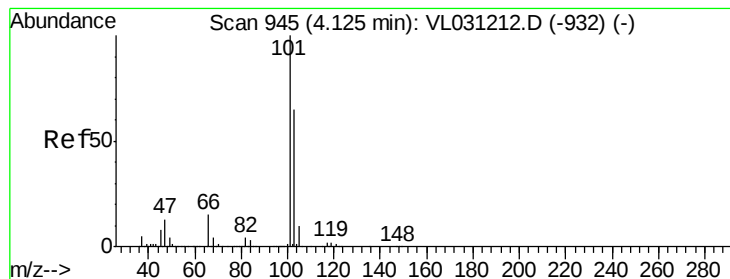
Tgt Ion: 43 Resp: 393984

Ion Ratio Lower Upper

43 100

57 49.4 39.8 59.8





#11

Trichlorofluoromethane

Concen: 0.89 ppbv

RT: 4.13 min Scan# 946

Delta R.T. 0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion:101 Resp: 251408

Ion Ratio Lower Upper

101 100

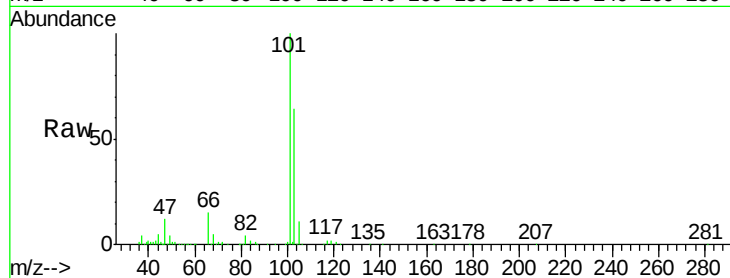
103 63.9 51.8 77.8

Manual Integrations

APPROVED

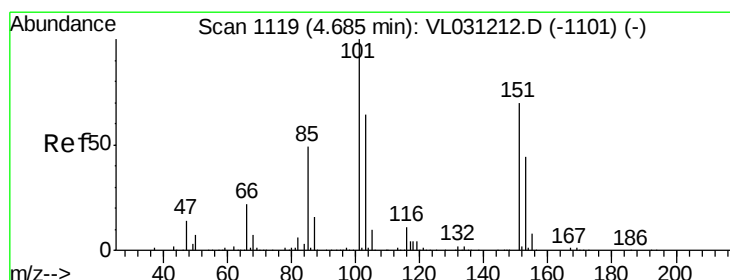
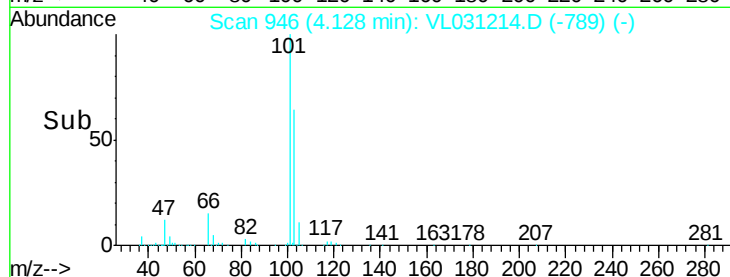
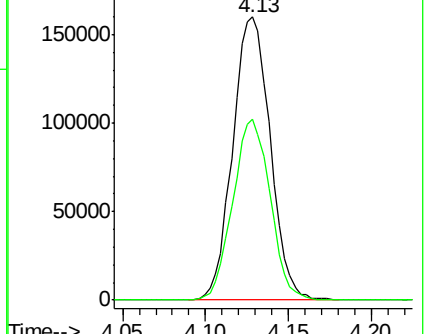
MMDadoda

12/15/2017 4:06:55 PM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 1.41 ppbv

RT: 4.68 min Scan# 1119

Delta R.T. 0.00 min

Lab File: VL031214.D

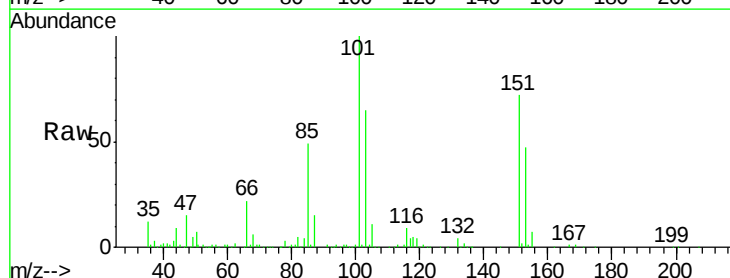
Acq: 13 Dec 2017 23:45

Tgt Ion:101 Resp: 235480

Ion Ratio Lower Upper

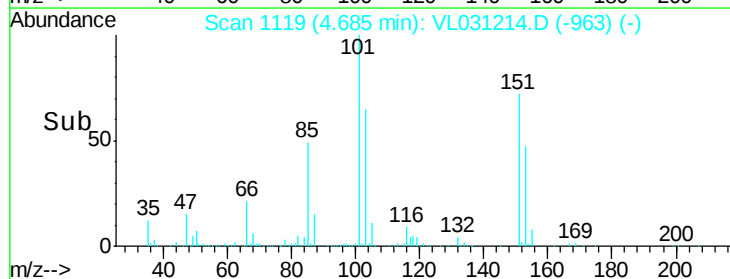
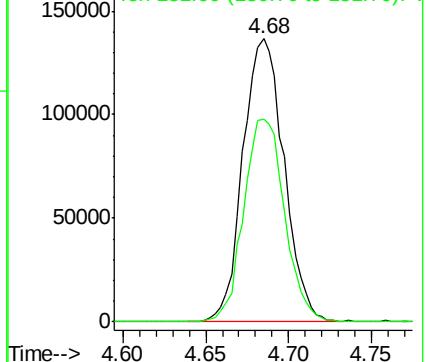
101 100

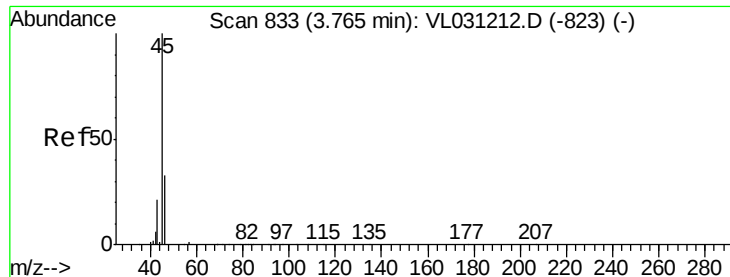
151 71.4 56.5 84.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 1.29 ppbv

RT: 3.77 min Scan# 834

Delta R.T. 0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 45 Resp: 32994

Ion Ratio Lower Upper

45 100

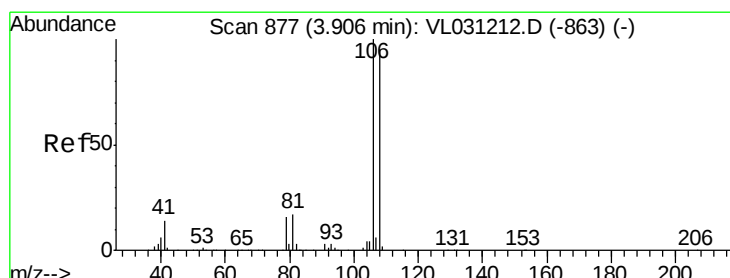
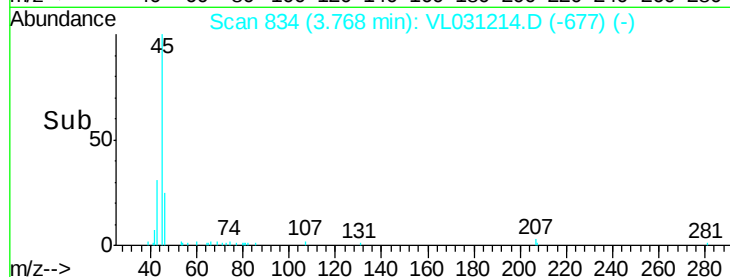
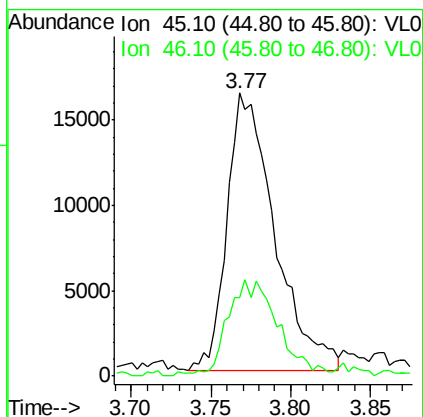
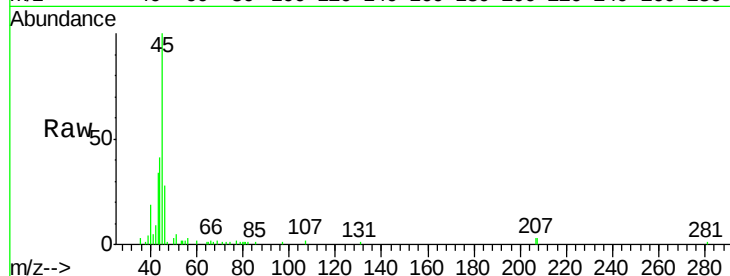
46 36.7 14.6 58.4

Manual Integrations

APPROVED

MMDadoda

12/15/2017 4:06:55 PM



#14

Bromoethene

Concen: 0.87 ppbv

RT: 3.91 min Scan# 877

Delta R.T. 0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

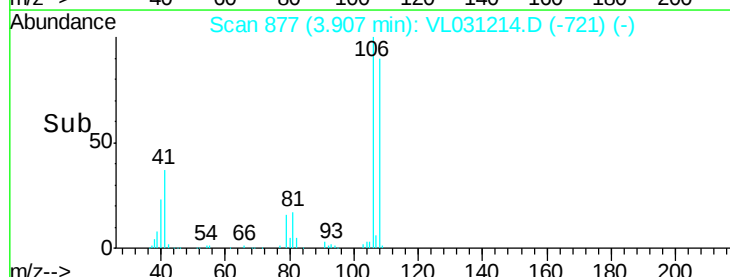
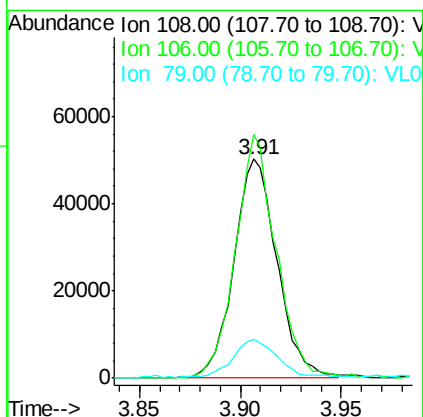
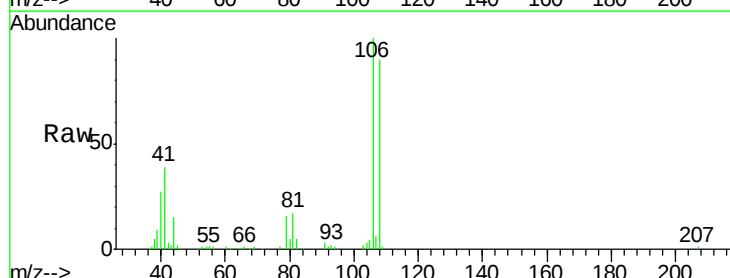
Tgt Ion: 108 Resp: 74814

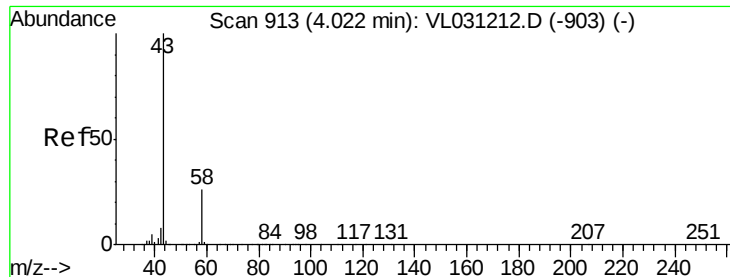
Ion Ratio Lower Upper

108 100

106 106.9 86.5 129.7

79 20.8 14.2 21.4





#15

Acetone

Concen: 1.08 ppbv

RT: 4.03 min Scan# 915

Delta R.T. 0.01 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 43 Resp: 255318

Ion Ratio Lower Upper

43 100

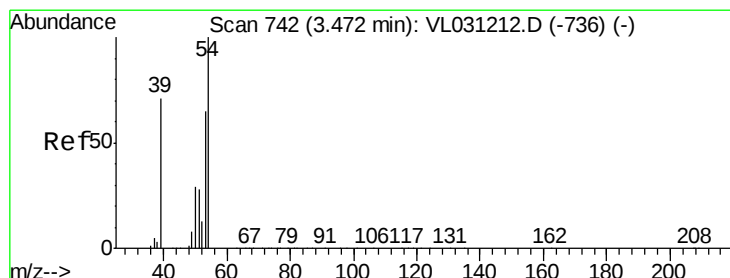
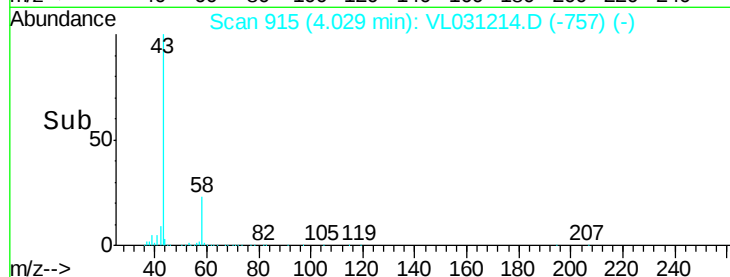
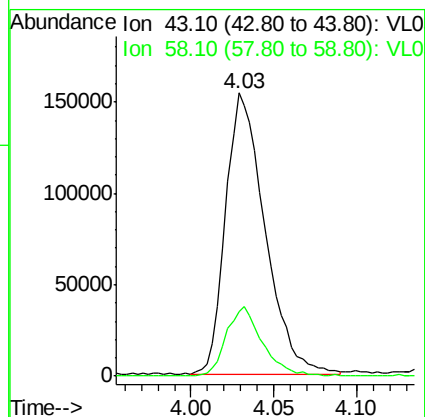
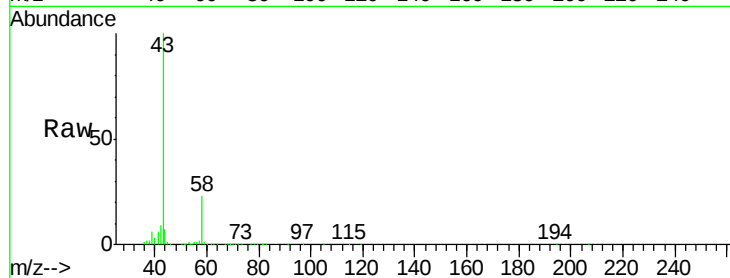
58 22.9 20.3 30.5

Manual Integrations

APPROVED

MMDadoda

12/15/2017 4:06:55 PM



#16

1,3-Butadiene

Concen: 0.92 ppbv

RT: 3.47 min Scan# 742

Delta R.T. 0.00 min

Lab File: VL031214.D

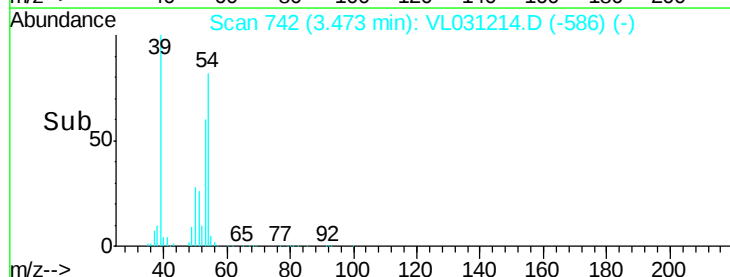
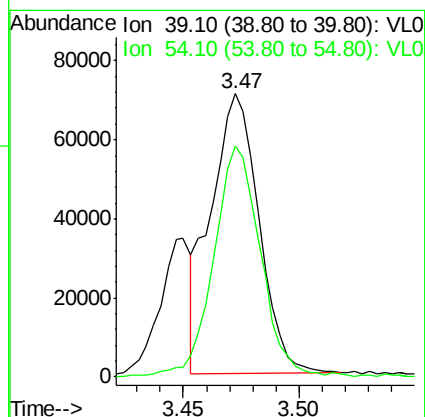
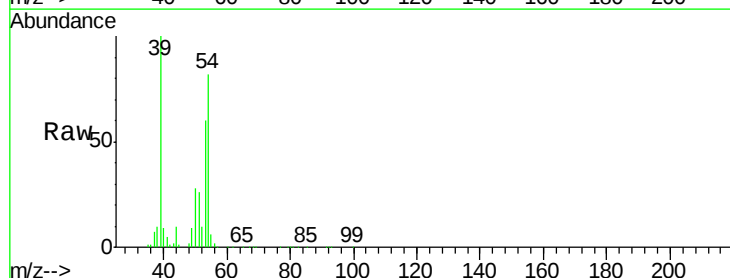
Acq: 13 Dec 2017 23:45

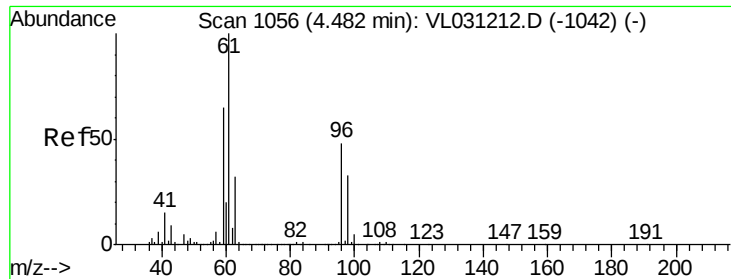
Tgt Ion: 39 Resp: 101661

Ion Ratio Lower Upper

39 100

54 81.2 66.4 99.6





#17

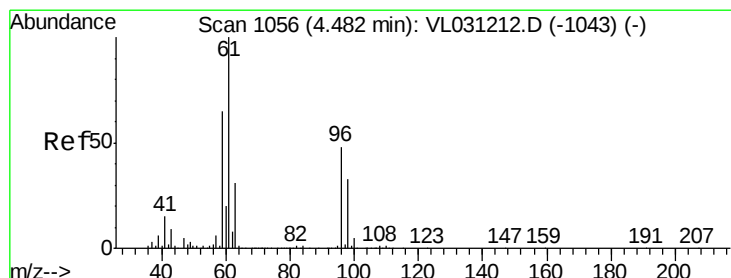
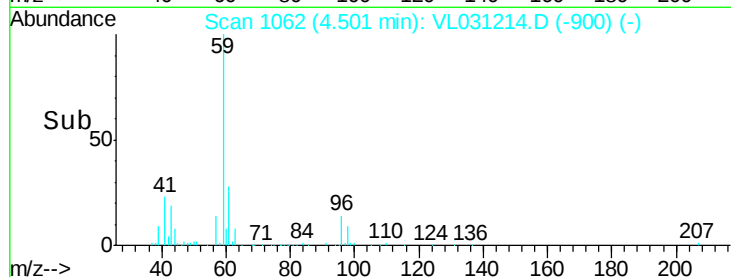
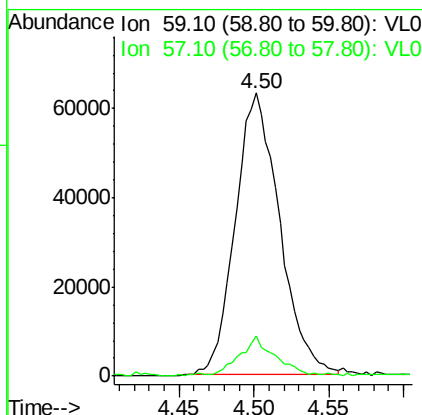
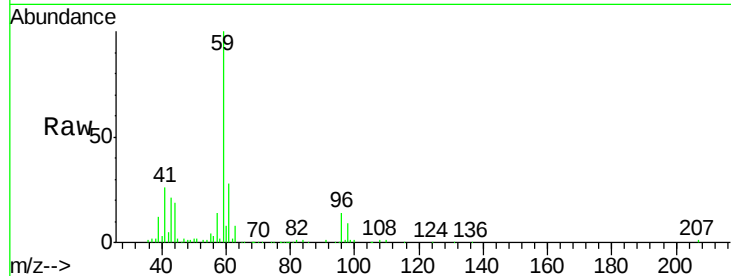
tert-Butyl alcohol
Concen: 1.14 ppbv
RT: 4.50 min Scan# 1062
Delta R.T. 0.02 min
Lab File: VL031214.D
Acq: 13 Dec 2017 23:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
59	100		
57	12.4	8.2	12.2#

Manual Integrations
APPROVED

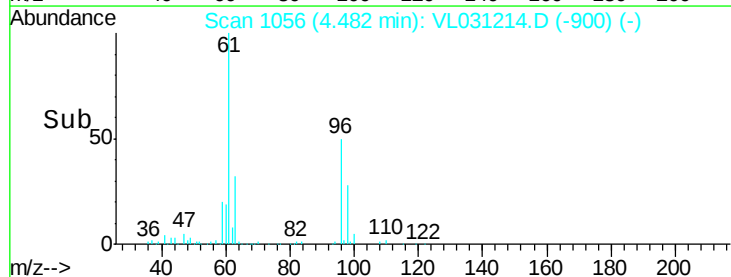
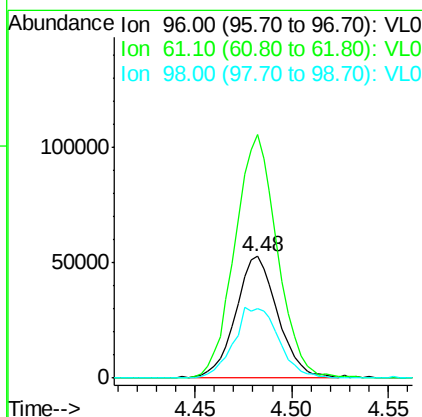
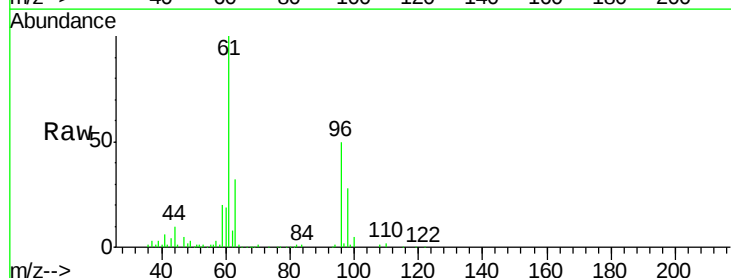
MMDadoda
12/15/2017 4:06:55 PM

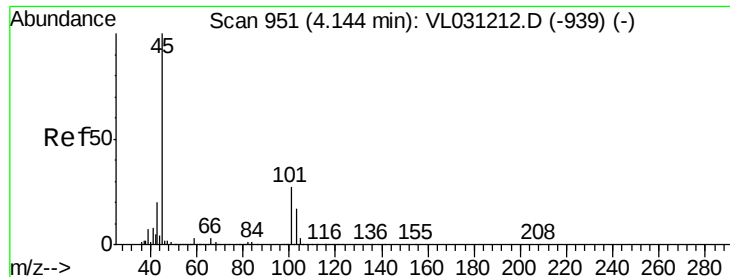


#18

1,1-Dichloroethene
Concen: 0.97 ppbv
RT: 4.48 min Scan# 1056
Delta R.T. 0.00 min
Lab File: VL031214.D
Acq: 13 Dec 2017 23:45

Tgt Ion	Ratio	Lower	Upper
96	100		
61	200.2	166.8	250.2
98	56.9	55.0	82.6





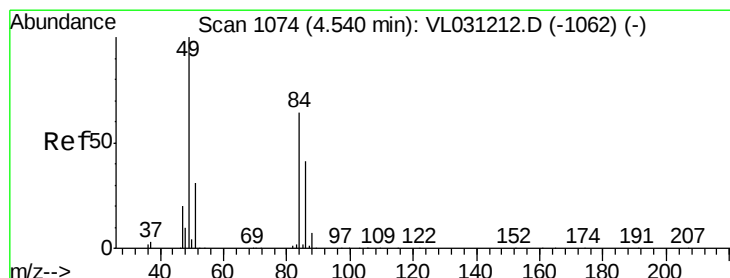
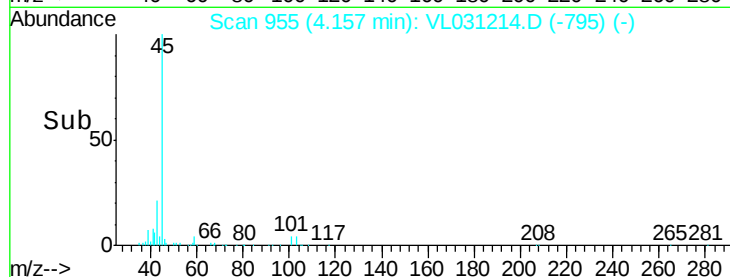
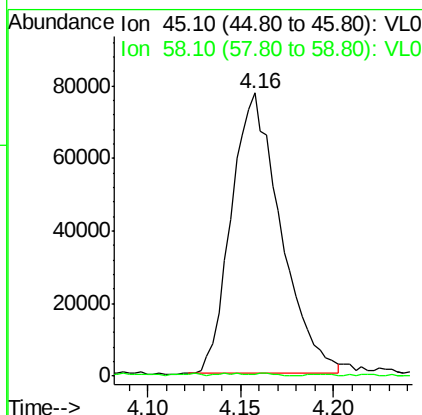
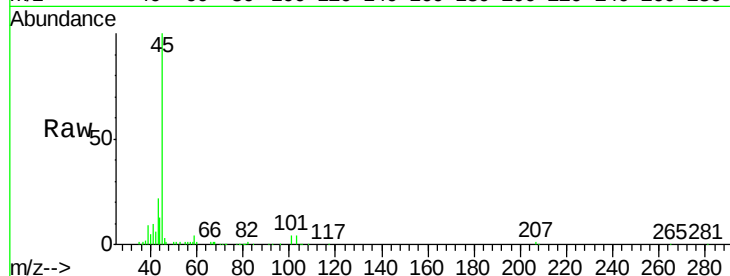
#19
Isopropyl Alcohol
Concen: 1.04 ppbv
RT: 4.16 min Scan# 955
Delta R.T. 0.01 min
Lab File: VL031214.D
Acq: 13 Dec 2017 23:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion: 45 Resp: 143687
Ion Ratio Lower Upper
45 100
58 39.7 27.2 40.8

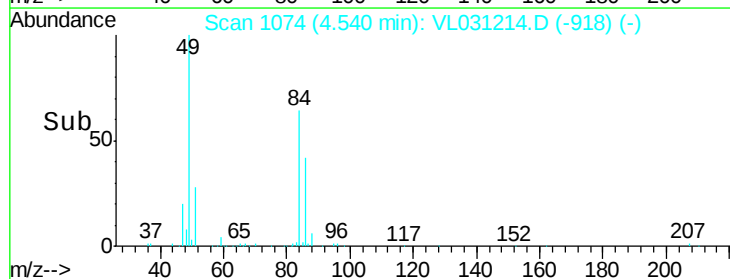
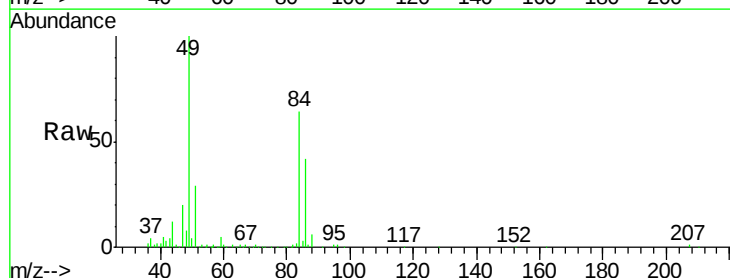
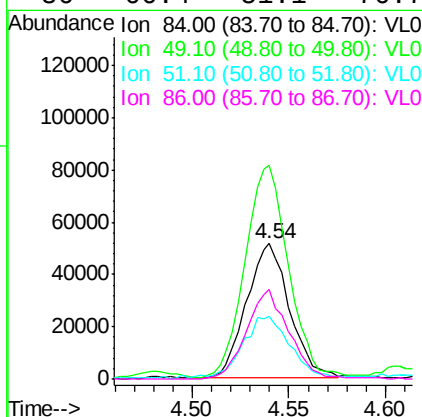
Manual Integrations
APPROVED

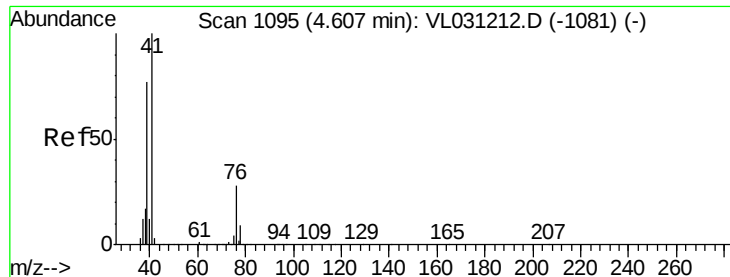
MMDadoda
12/15/2017 4:06:55 PM



#20
Methylene Chloride
Concen: 0.98 ppbv
RT: 4.54 min Scan# 1074
Delta R.T. 0.00 min
Lab File: VL031214.D
Acq: 13 Dec 2017 23:45

Tgt Ion: 84 Resp: 80227
Ion Ratio Lower Upper
84 100
49 156.5 125.8 188.6
51 45.3 39.3 58.9
86 66.4 51.1 76.7





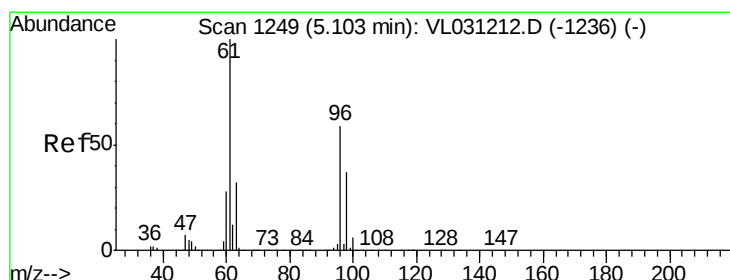
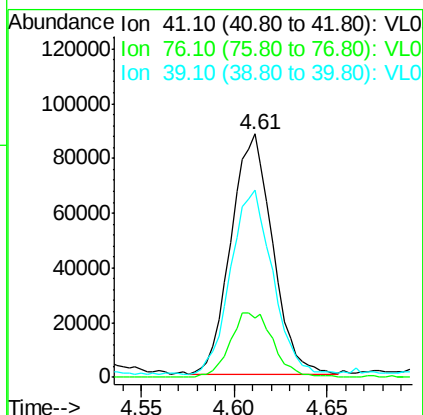
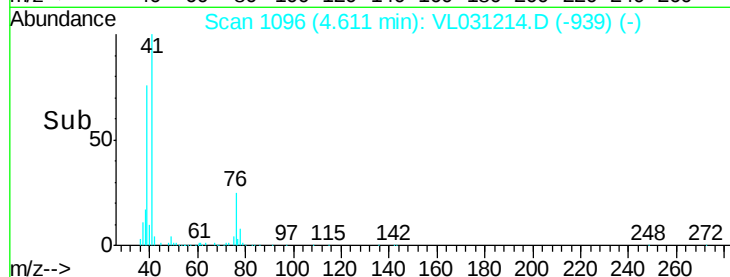
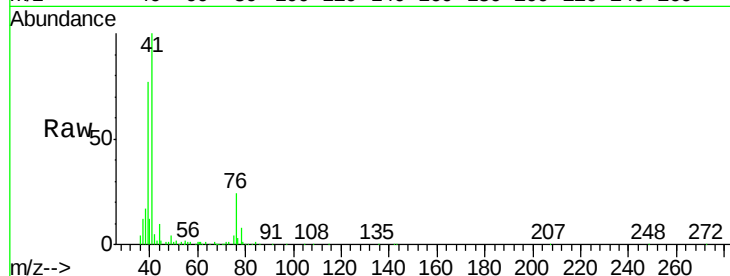
#21
Allvl Chloride
Concen: 1.17 ppbv
RT: 4.61 min Scan# 1096
Delta R.T. 0.00 min
Lab File: VL031214.D
Acq: 13 Dec 2017 23:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
41	100		
76	27.6	22.9	34.3
39	76.9	62.6	93.8

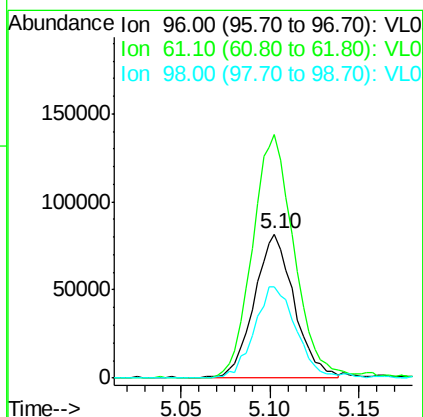
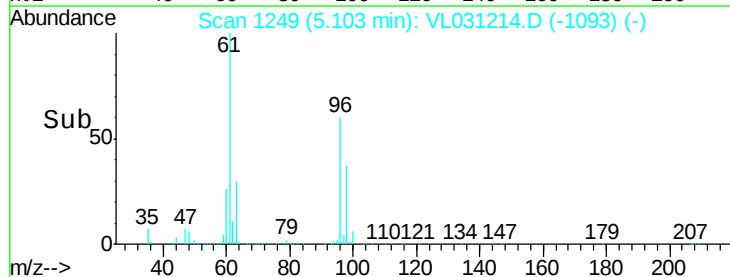
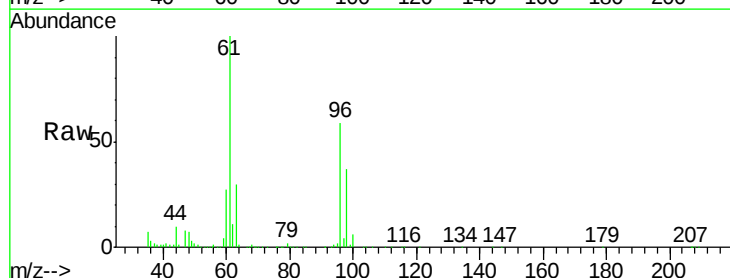
Manual Integrations
APPROVED

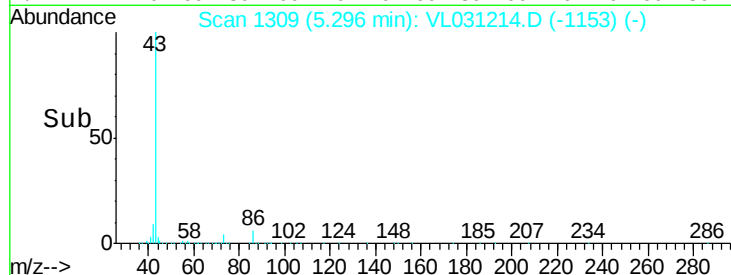
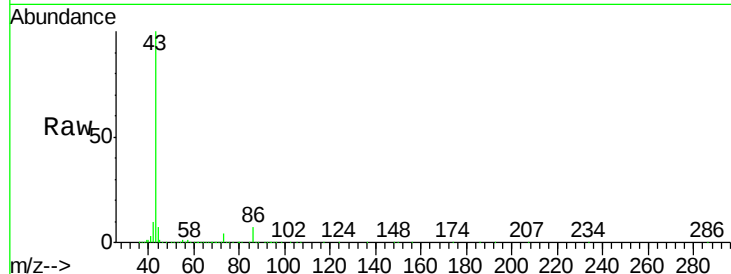
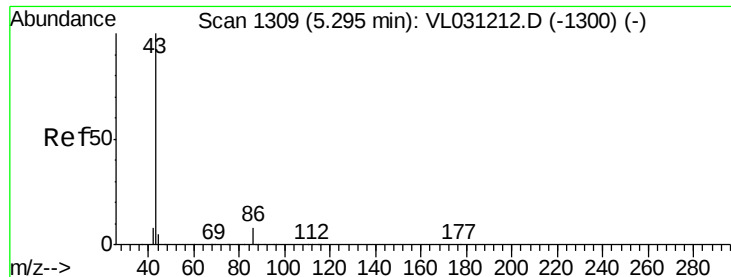
MMDadoda
12/15/2017 4:06:55 PM



#22
trans-1,2-Dichloroethene
Concen: 1.25 ppbv
RT: 5.10 min Scan# 1249
Delta R.T. 0.00 min
Lab File: VL031214.D
Acq: 13 Dec 2017 23:45

Tgt Ion	Ratio	Lower	Upper
96	100		
61	169.4	135.0	202.4
98	63.1	50.5	75.7





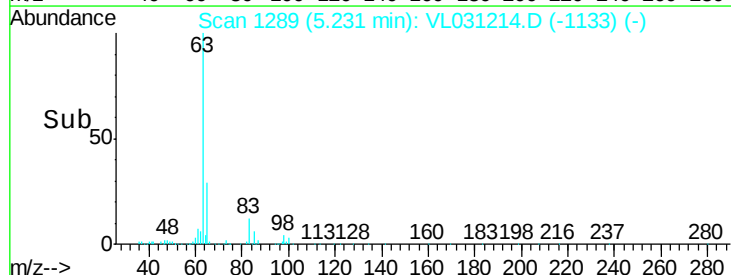
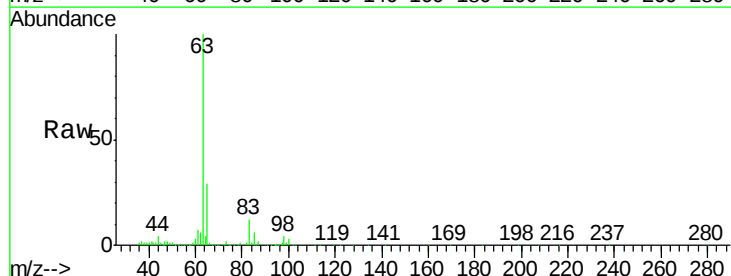
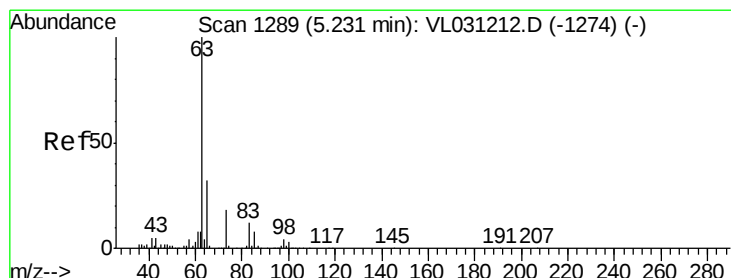
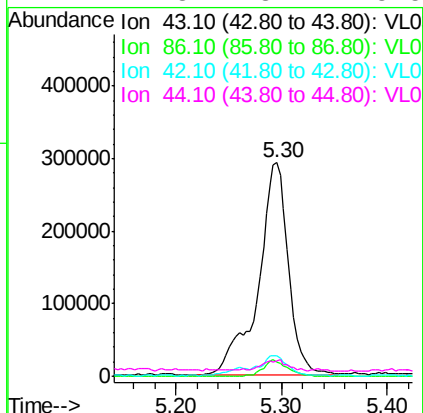
#23
 Vinyl Acetate
 Concen: 1.40 ppbv
 RT: 5.30 min Scan# 1309
 Delta R.T. 0.00 min
 Lab File: VL031214.D
 Acq: 13 Dec 2017 23:45

Tot Ion	43	Resp	587654
Ion Ratio	Lower	Upper	
43	100		
86	6.5	5.9	8.9
42	9.4	7.3	10.9
44	4.8	3.7	5.5

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

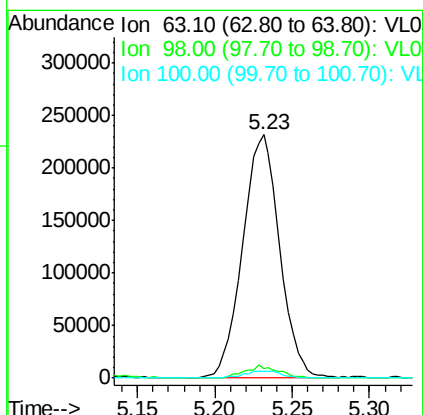
Manual Integrations
 APPROVED

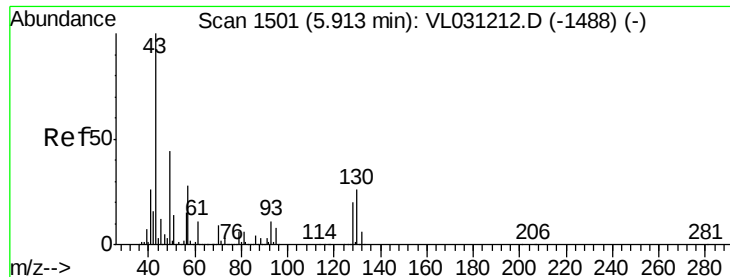
MMDadoda
 12/15/2017 4:06:55 PM



#24
 1,1-Dichloroethane
 Concen: 1.07 ppbv
 RT: 5.23 min Scan# 1289
 Delta R.T. 0.00 min
 Lab File: VL031214.D
 Acq: 13 Dec 2017 23:45

Tgt Ion	63	Resp	385459
Ion Ratio	Lower	Upper	
63	100		
98	4.0	2.3	6.8
100	3.0	1.4	4.2





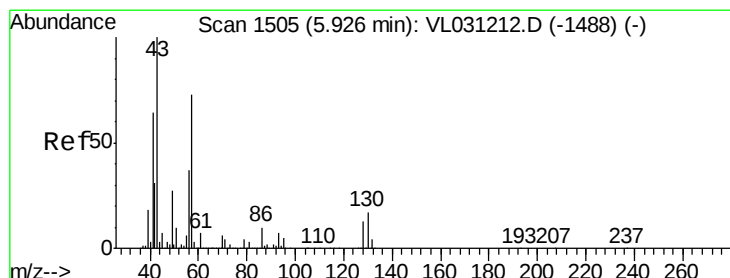
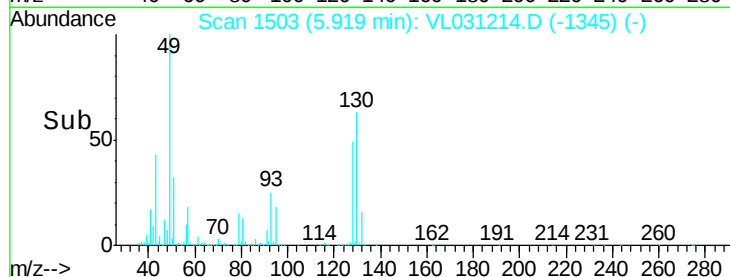
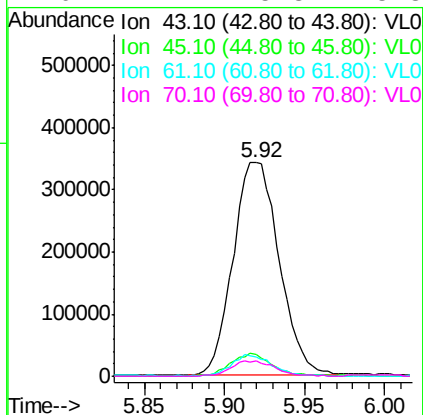
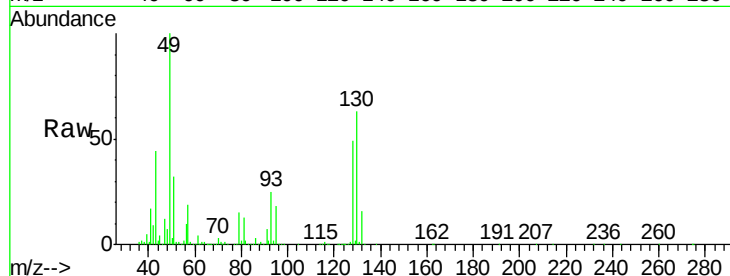
#25
Ethyl Acetate
Concen: 1.15 ppbv
RT: 5.92 min Scan# 1503
Delta R.T. 0.01 min
Lab File: VL031214.D
Acq: 13 Dec 2017 23:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100				
45	9.7	8.0	12.0		
61	8.9	7.4	11.0		
70	7.1	5.8	8.8		

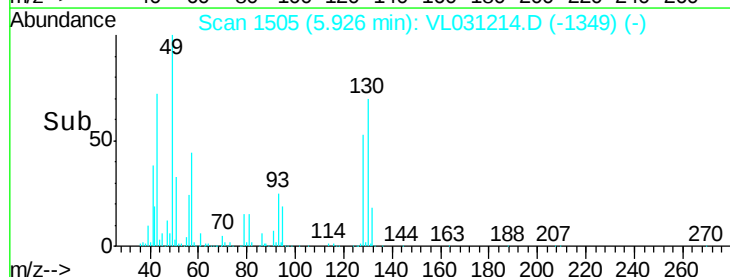
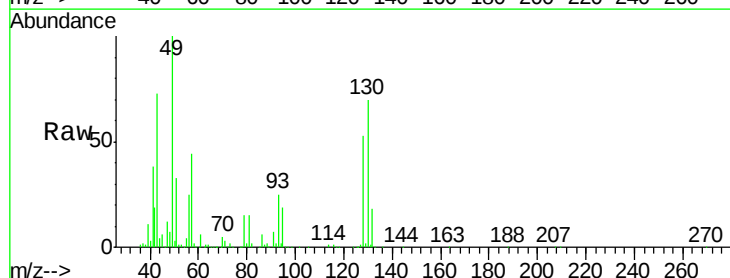
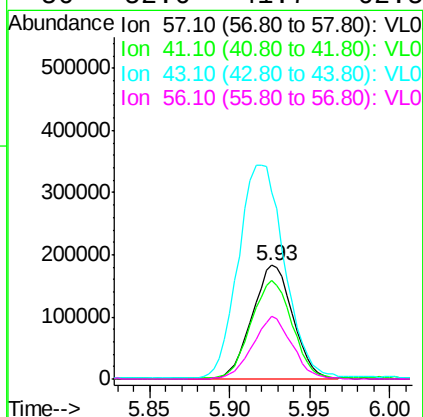
Manual Integrations
APPROVED

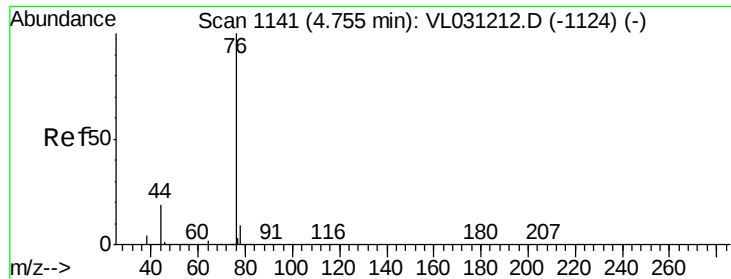
MMDadoda
12/15/2017 4:06:55 PM



#26
Hexane
Concen: 1.13 ppbv
RT: 5.93 min Scan# 1505
Delta R.T. 0.00 min
Lab File: VL031214.D
Acq: 13 Dec 2017 23:45

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	86.6	70.3	105.5		
43	212.7	173.8	260.8		
56	52.6	41.7	62.5		





#27

Carbon Disulfide

Concen: 1.48 ppbv

RT: 4.76 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

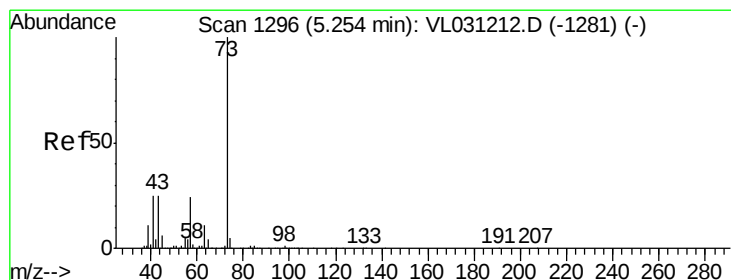
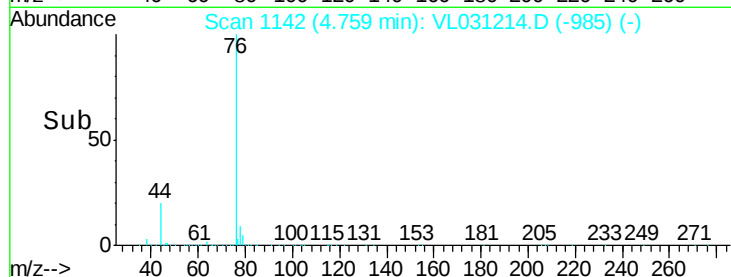
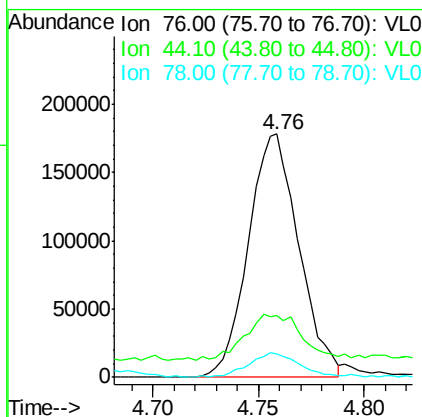
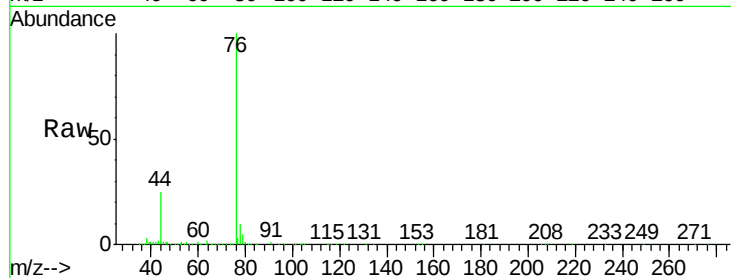
ClientSampleId :

VSTDIC001

Tot Ion:	76	Resp:	295611
Ion Ratio	Lower	Upper	
76	100		
44	34.9	16.0	24.0#
78	11.7	7.5	11.3#

Manual Integrations
APPROVED

MMDadoda
12/15/2017 4:06:55 PM



#28

Methyl tert-Butyl Ether

Concen: 1.32 ppbv

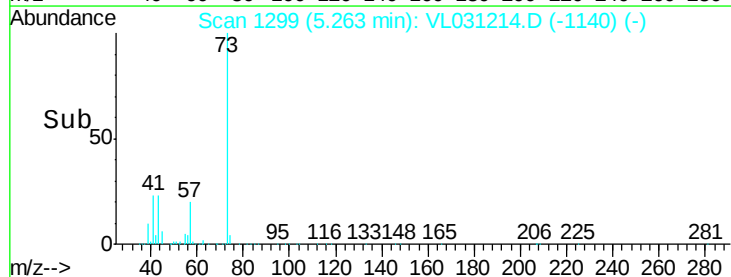
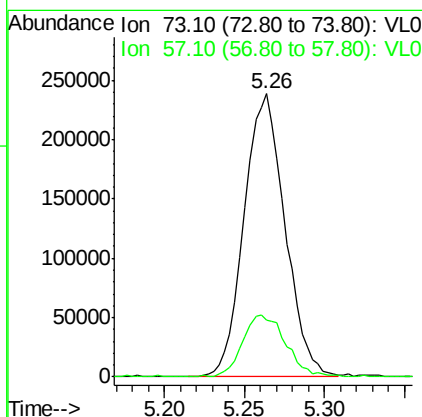
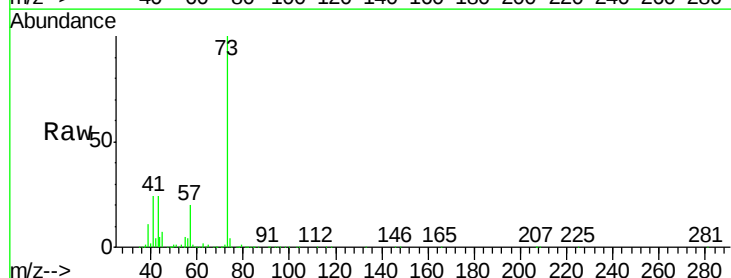
RT: 5.26 min Scan# 1299

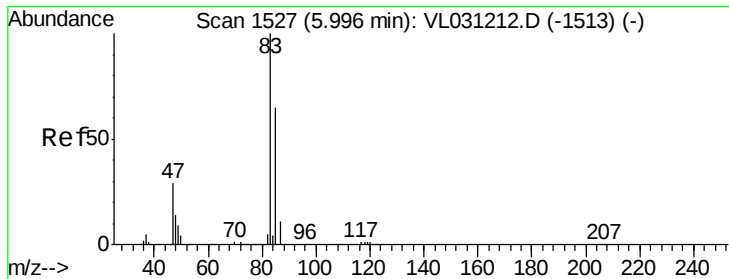
Delta R.T. 0.01 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Tgt Ion:	73	Resp:	415600
Ion Ratio	Lower	Upper	
73	100		
57	23.1	18.5	27.7





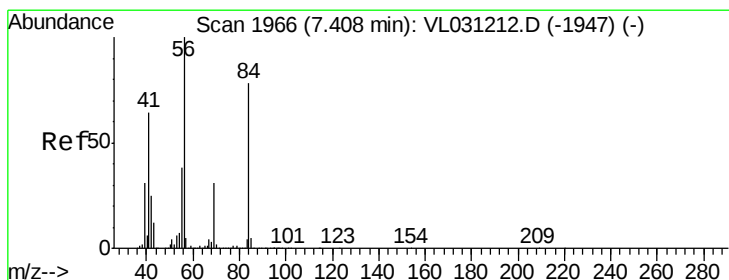
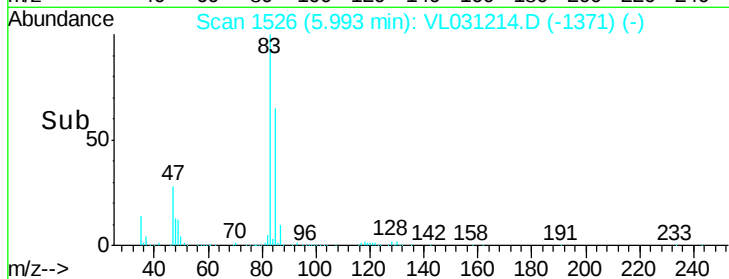
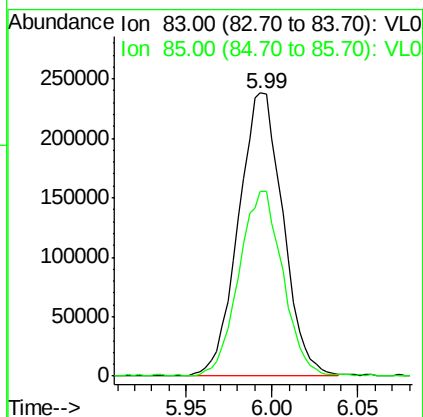
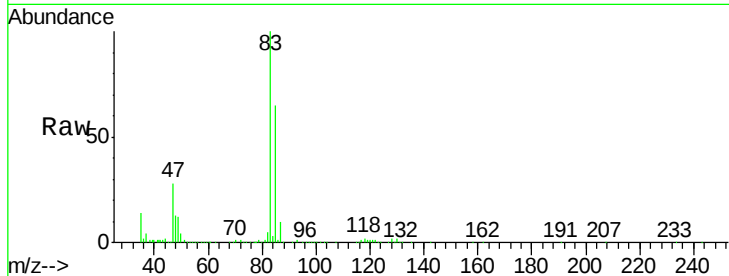
#29
Chloroform
Concen: 1.05 ppbv
RT: 5.99 min Scan# 1526
Delta R.T. -0.00 min
Lab File: VL031214.D
Acq: 13 Dec 2017 23:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	83	Resp	427287
Ion Ratio	Lower	Upper	
83	100		
85	65.0	51.8	77.6

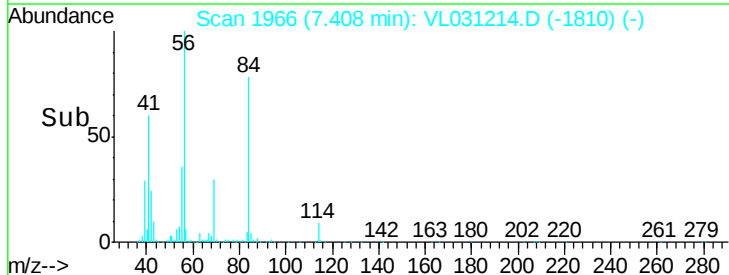
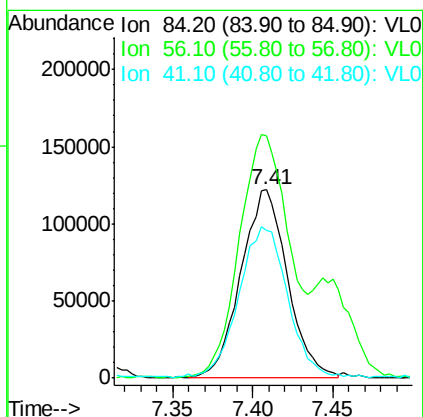
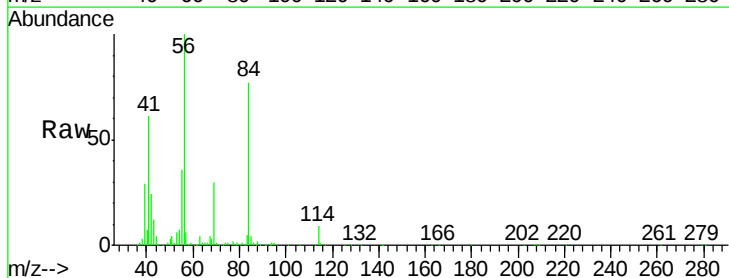
Manual Integrations
APPROVED

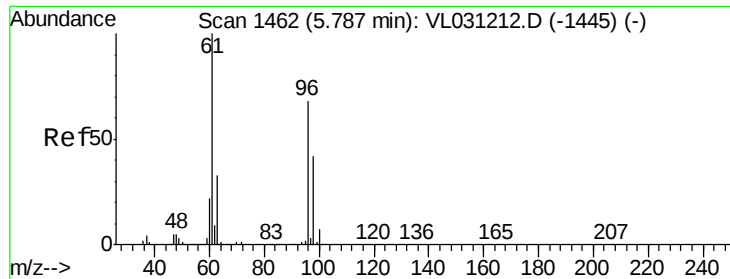
MM Dadoda
12/15/2017 4:06:55 PM



#30
Cyclohexane
Concen: 1.06 ppbv
RT: 7.41 min Scan# 1966
Delta R.T. 0.00 min
Lab File: VL031214.D
Acq: 13 Dec 2017 23:45

Tgt Ion	84	Resp	240599
Ion Ratio	Lower	Upper	
84	100		
56	183.5	108.0	162.0#
41	84.1	66.2	99.4





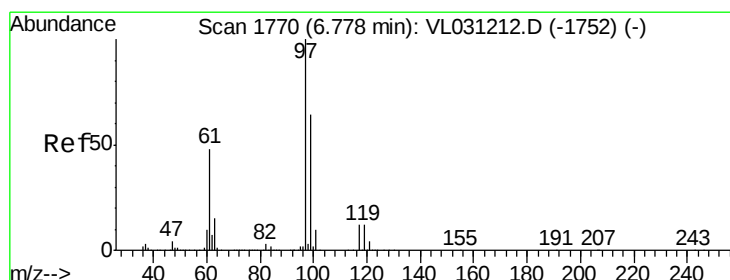
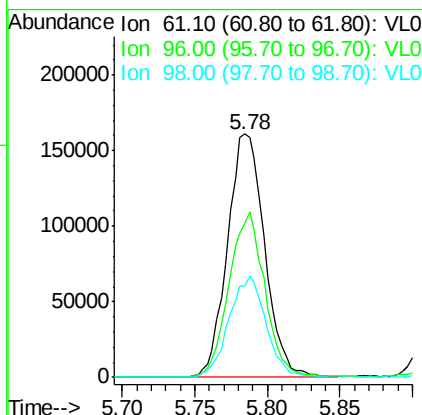
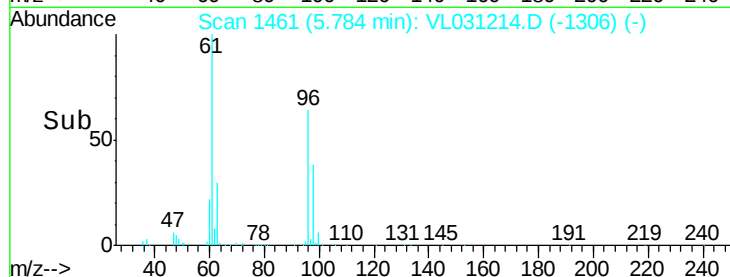
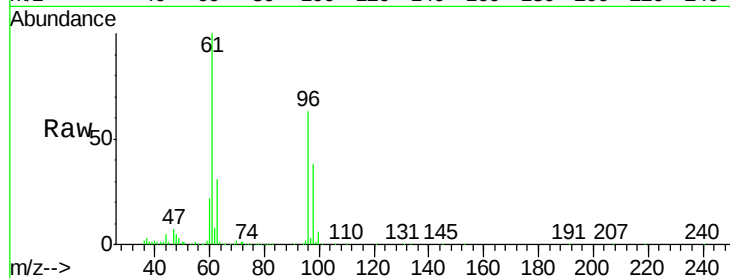
#31
 cis-1,2-Dichloroethene
 Concen: 1.05 ppbv
 RT: 5.78 min Scan# 1461
 Delta R.T. -0.00 min
 Lab File: VL031214.D
 Acq: 13 Dec 2017 23:45

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp Lower	Upper
61	100		
96	63.1	54.4	81.6
98	37.4	33.6	50.4

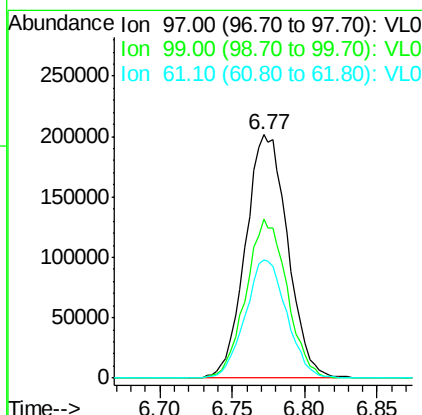
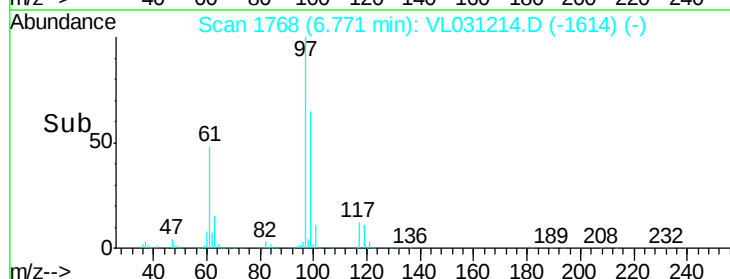
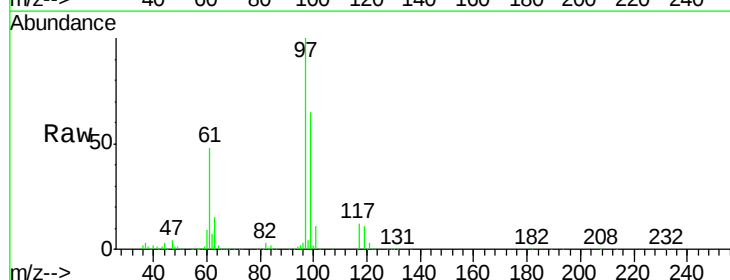
Manual Integrations
 APPROVED

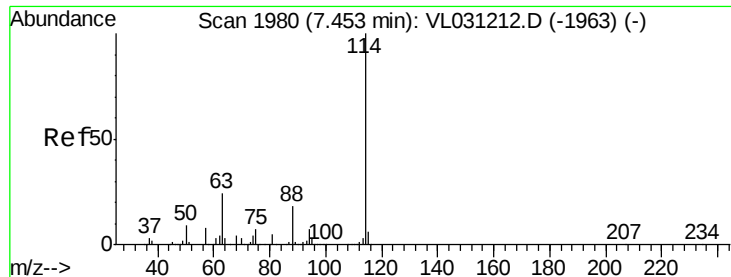
MMDadoda
 12/15/2017 4:06:55 PM



#32
 1,1,1-Trichloroethane
 Concen: 1.20 ppbv
 RT: 6.77 min Scan# 1768
 Delta R.T. -0.01 min
 Lab File: VL031214.D
 Acq: 13 Dec 2017 23:45

Tgt Ion	Ratio	Resp Lower	Upper
97	100		
99	63.6	51.4	77.0
61	48.0	38.4	57.6





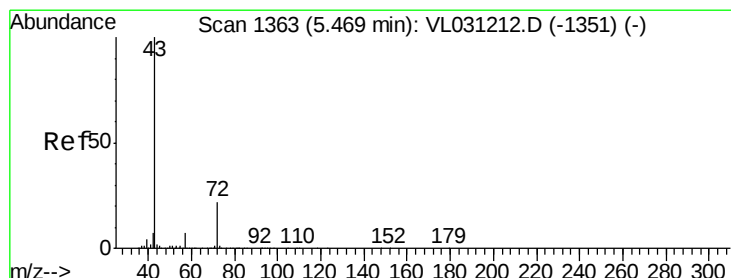
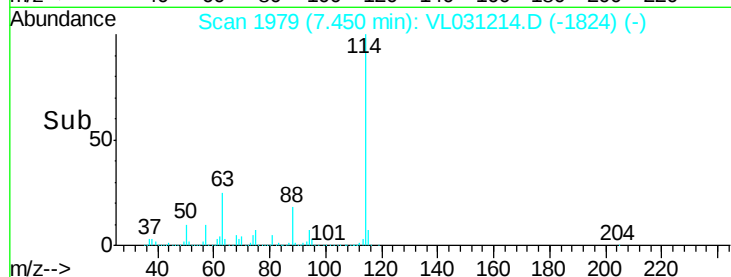
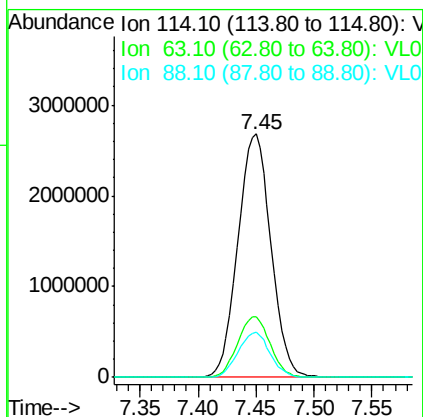
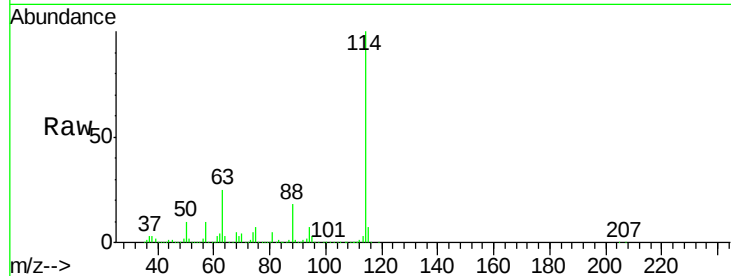
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.45 min Scan# 1979
 Delta R.T. -0.00 min
 Lab File: VL031214.D
 Acq: 13 Dec 2017 23:45

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.7	19.8	29.8
88	18.0	14.2	21.4

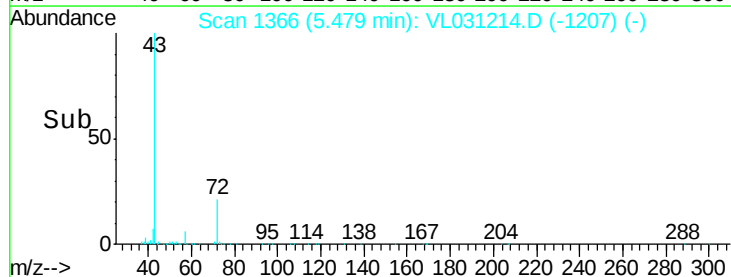
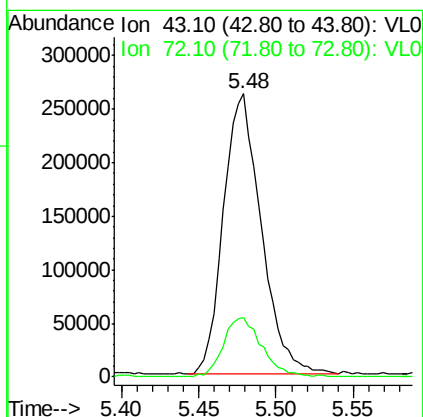
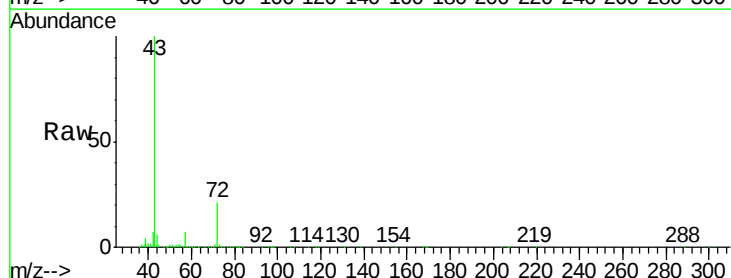
Manual Integrations
 APPROVED

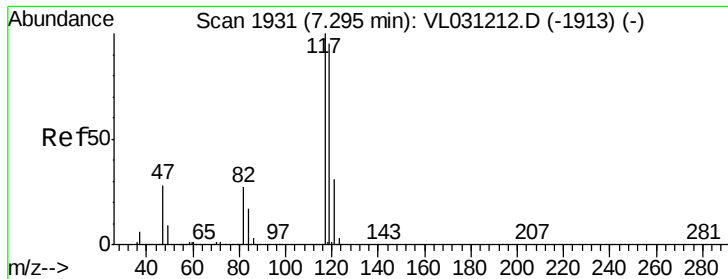
MMDadoda
 12/15/2017 4:06:55 PM



#34
 2-Butanone
 Concen: 1.02 ppbv
 RT: 5.48 min Scan# 1366
 Delta R.T. 0.01 min
 Lab File: VL031214.D
 Acq: 13 Dec 2017 23:45

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.2	18.1	27.1





#35

Carbon Tetrachloride

Concen: 1.07 ppbv

RT: 7.29 min Scan# 1930

Delta R.T. -0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

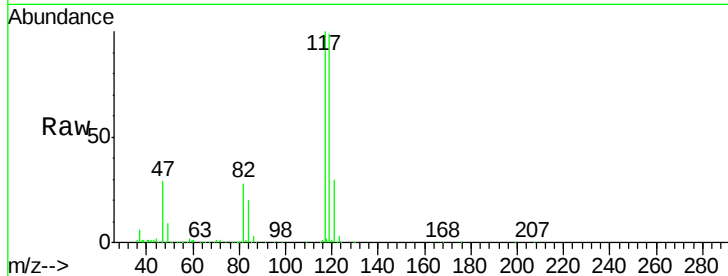
ClientSampleId :

VSTDIC001

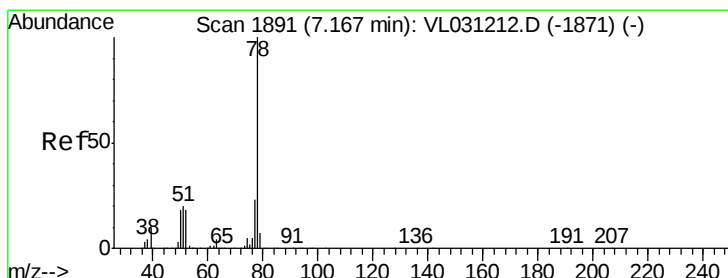
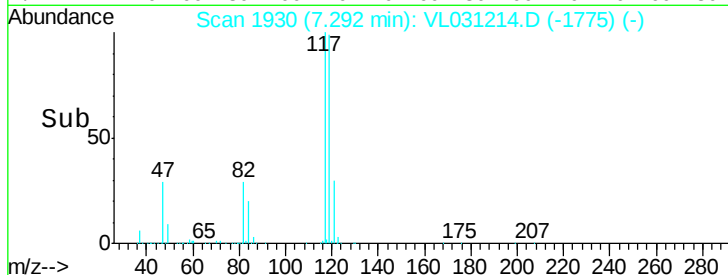
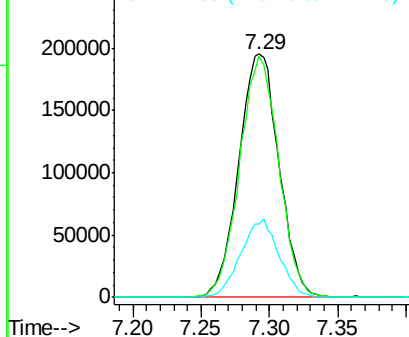
Tot Ion:	117	Resp:	400418
Ion Ratio	Lower	Upper	
117	100		
119	98.8	75.9	113.9
121	30.1	24.6	37.0

Manual Integrations
APPROVED

MMDadoda
12/15/2017 4:06:55 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: 0.99 ppbv

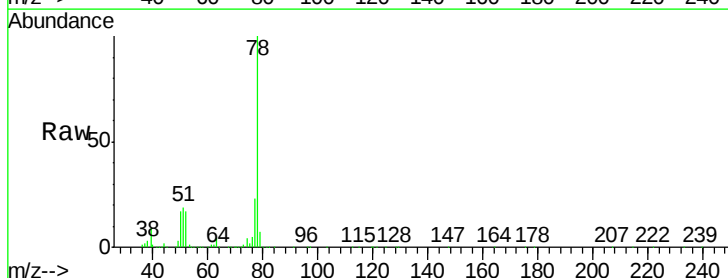
RT: 7.16 min Scan# 1890

Delta R.T. -0.00 min

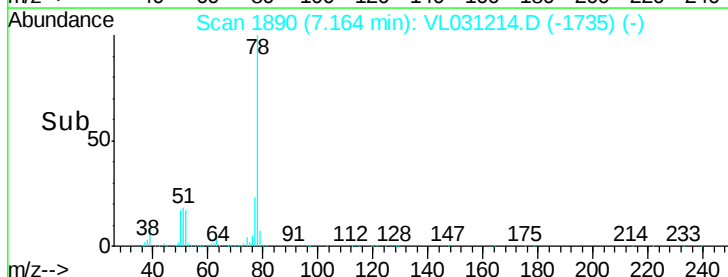
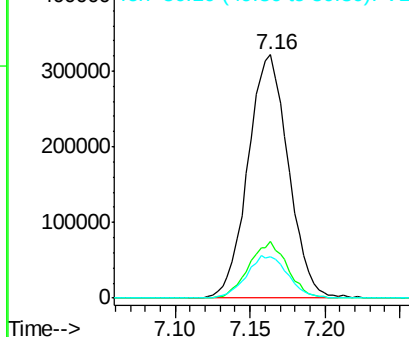
Lab File: VL031214.D

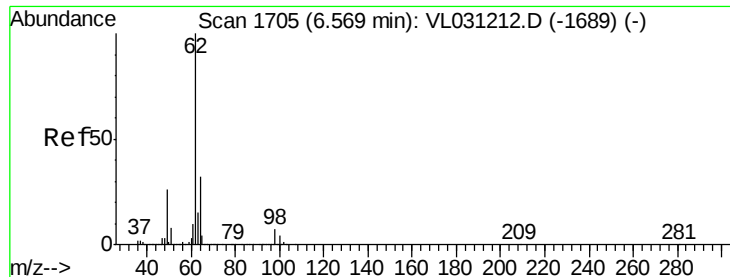
Acq: 13 Dec 2017 23:45

Tgt Ion:	78	Resp:	602730
Ion Ratio	Lower	Upper	
78	100		
77	23.2	18.1	27.1
50	17.3	14.6	21.8



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





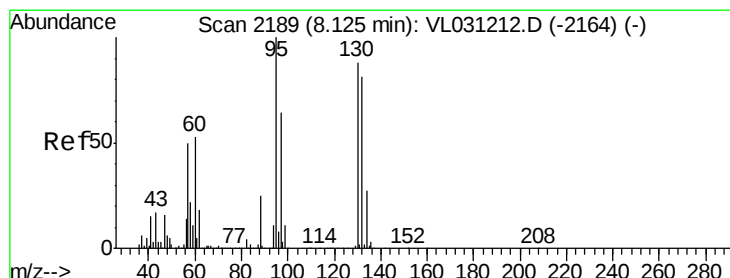
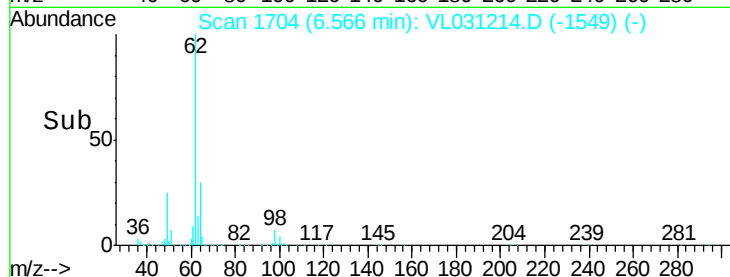
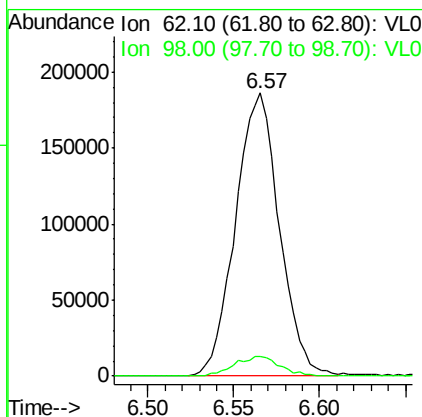
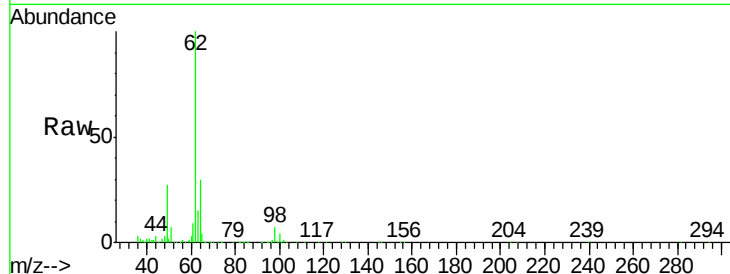
#37
 1,2-Dichloroethane
 Concen: 0.92 ppbv
 RT: 6.57 min Scan# 1704
 Delta R.T. -0.00 min
 Lab File: VL031214.D
 Acq: 13 Dec 2017 23:45

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
62	100	329813		
98	7.5		5.4	8.2

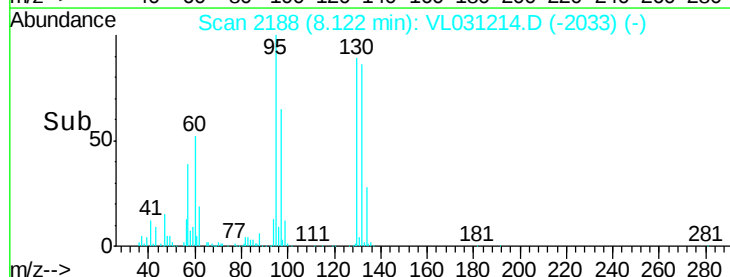
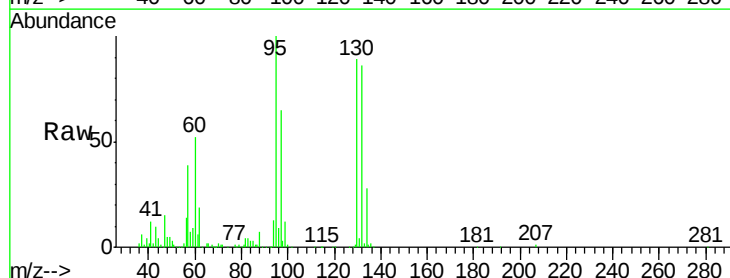
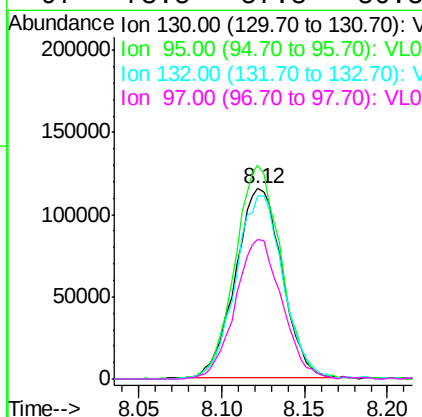
Manual Integrations
 APPROVED

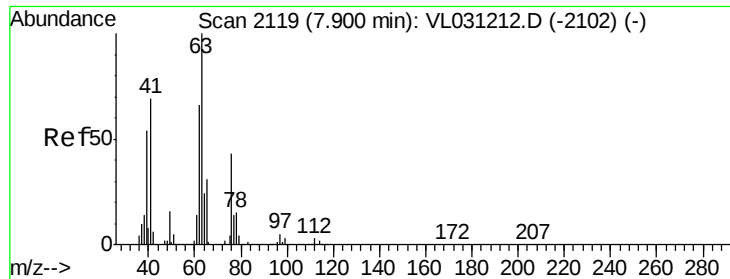
MM Dadoda
 12/15/2017 4:06:55 PM



#38
 Trichloroethene
 Concen: 0.97 ppbv
 RT: 8.12 min Scan# 2188
 Delta R.T. -0.00 min
 Lab File: VL031214.D
 Acq: 13 Dec 2017 23:45

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	224596		
95	112.1		90.6	135.8
132	96.6		73.5	110.3
97	73.5		57.8	86.8





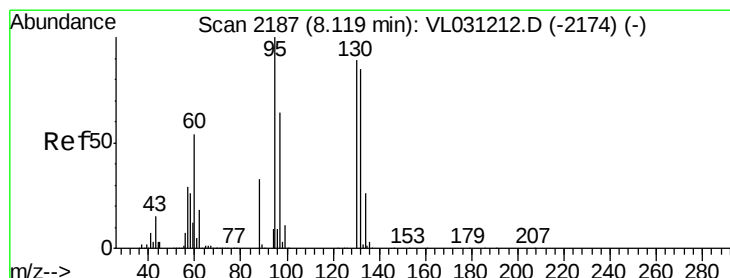
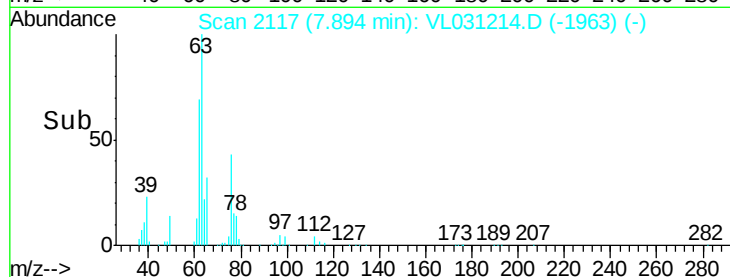
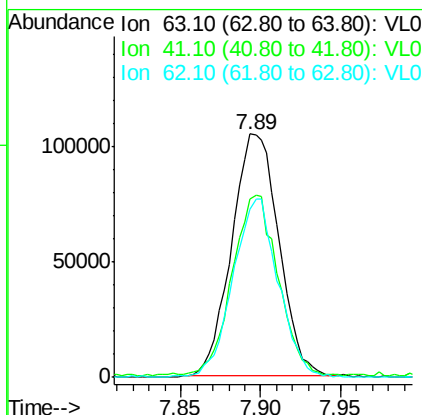
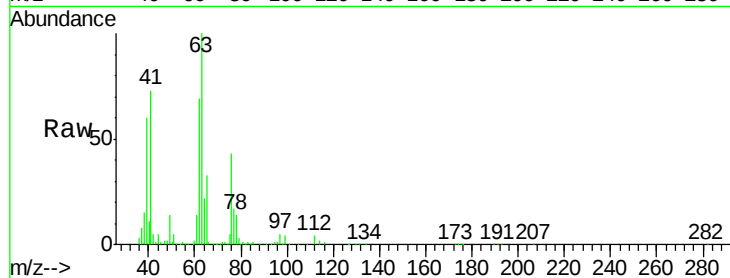
#39
 1,2-Dichloropropane
 Concen: 0.91 ppbv
 RT: 7.89 min Scan# 2117
 Delta R.T. -0.01 min
 Lab File: VL031214.D
 Acq: 13 Dec 2017 23:45

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
63	100		
41	72.7	55.2	82.8
62	68.8	53.0	79.4

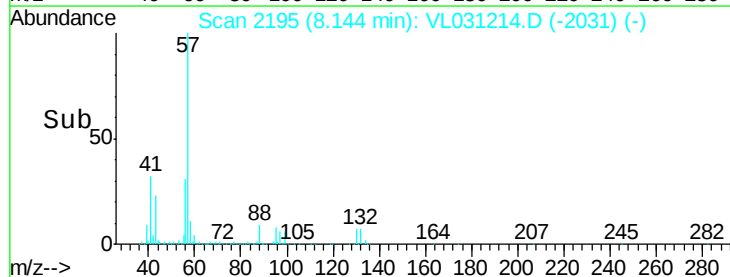
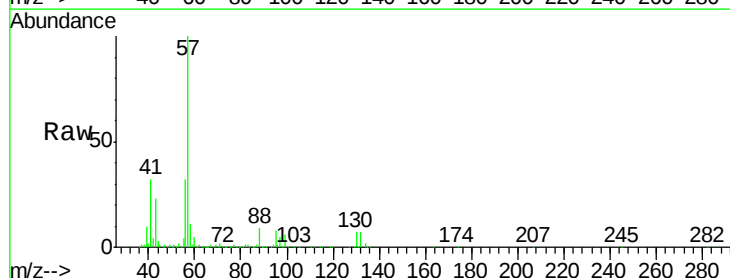
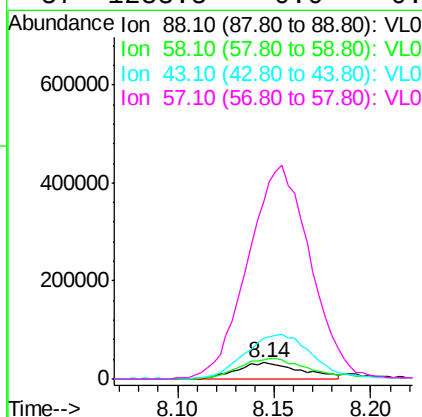
Manual Integrations
 APPROVED

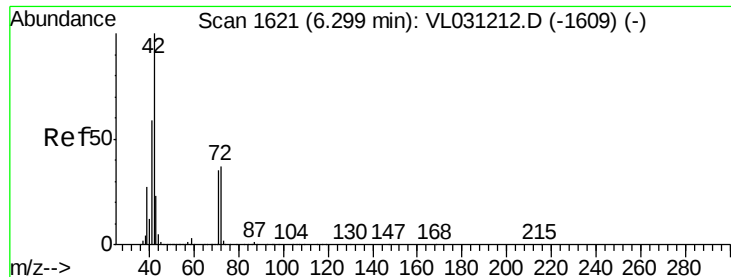
MMDadoda
 12/15/2017 4:06:55 PM



#40
 1,4-Dioxane
 Concen: 0.83 ppbv
 RT: 8.14 min Scan# 2195
 Delta R.T. 0.03 min
 Lab File: VL031214.D
 Acq: 13 Dec 2017 23:45

Tgt Ion	Ratio	Lower	Upper
88	100		
58	150.2	104.3	156.5
43	285.2	0.0	0.0#
57	1288.5	0.0	0.0#





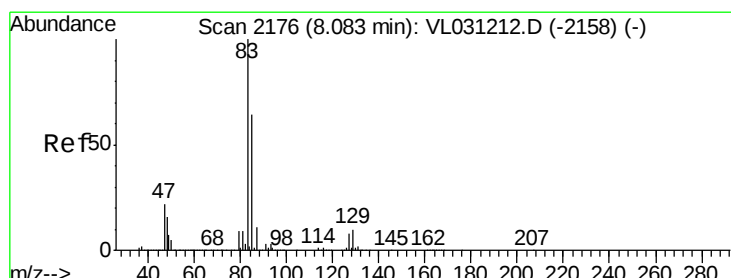
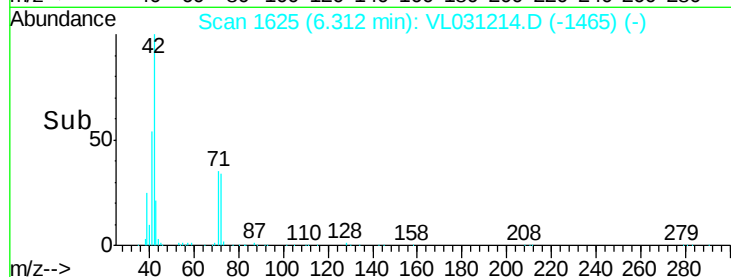
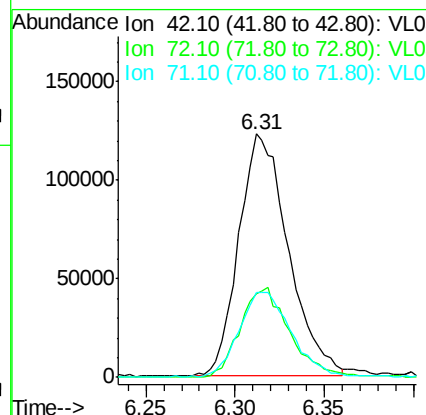
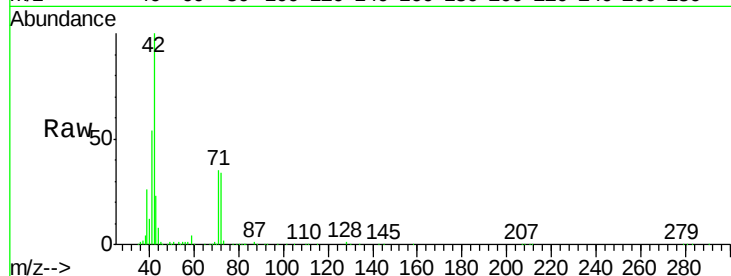
#41
Tetrahydrofuran
Concen: 1.04 ppbv
RT: 6.31 min Scan# 1625
Delta R.T. 0.01 min
Lab File: VL031214.D
Acq: 13 Dec 2017 23:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.8	30.2	45.4
71	38.3	29.0	43.6

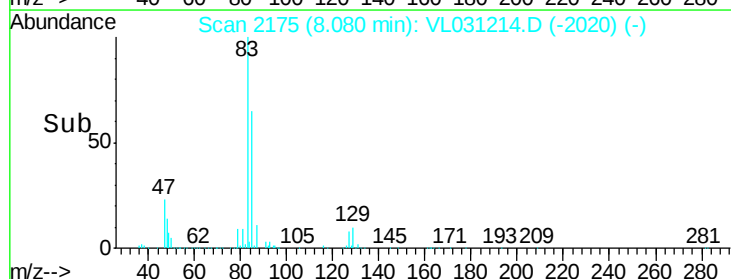
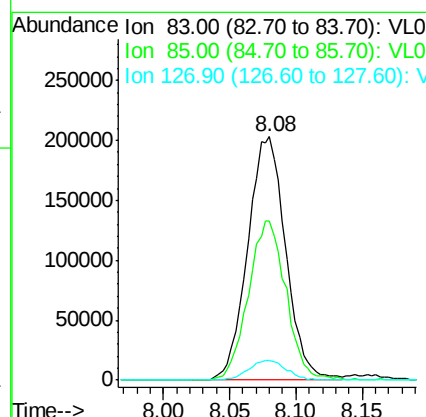
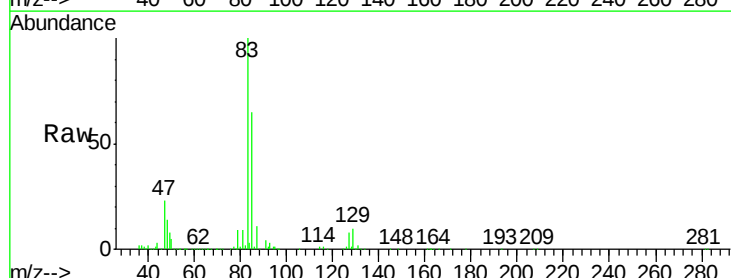
Manual Integrations
APPROVED

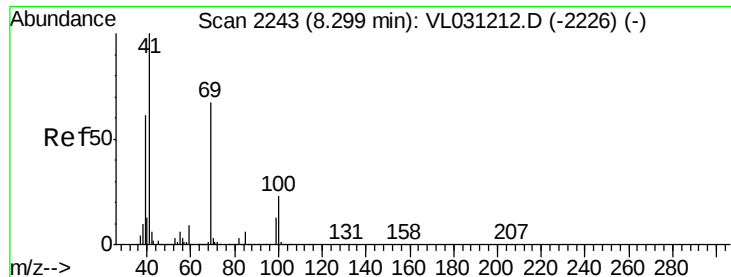
MMDadoda
12/15/2017 4:06:55 PM



#42
Bromodichloromethane
Concen: 0.95 ppbv
RT: 8.08 min Scan# 2175
Delta R.T. -0.00 min
Lab File: VL031214.D
Acq: 13 Dec 2017 23:45

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.3	51.5	77.3
127	8.3	6.5	9.7





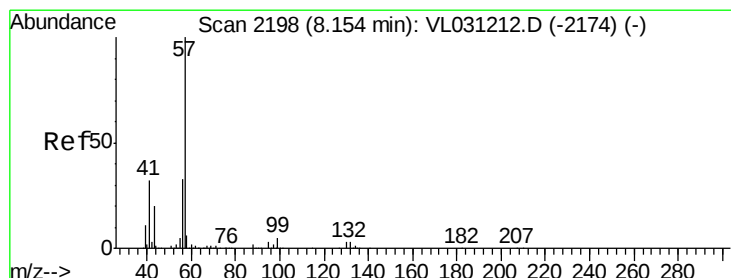
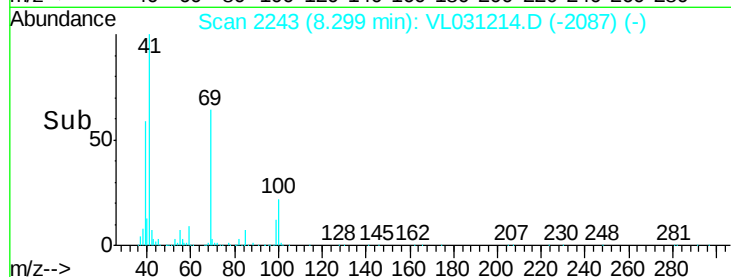
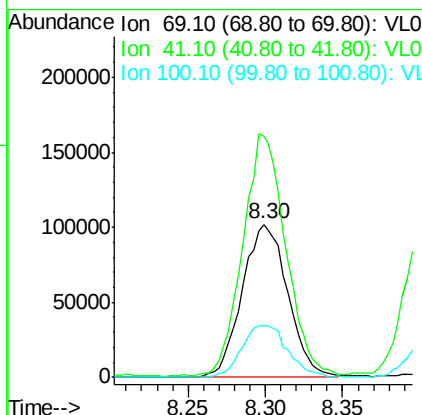
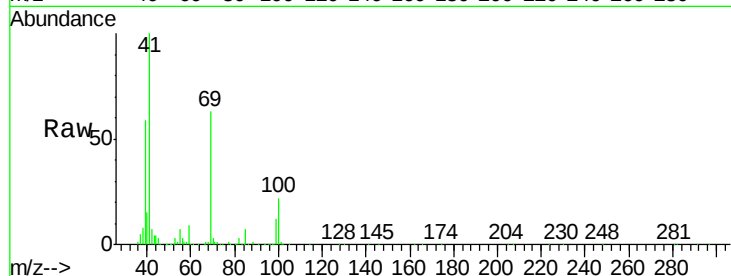
#43
Methvl Methacrvlate
Concen: 0.97 ppbv
RT: 8.30 min Scan# 2243
Delta R.T. 0.00 min
Lab File: VL031214.D
Acq: 13 Dec 2017 23:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	151.3	121.1	181.7	
100	34.6	27.4	41.2	

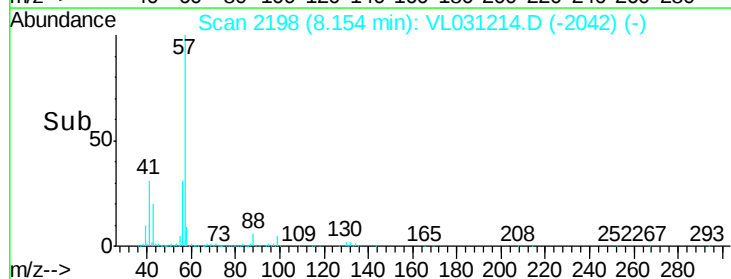
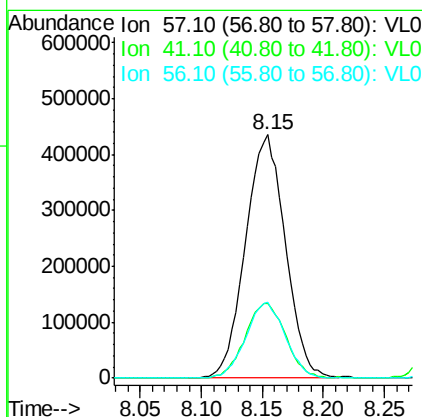
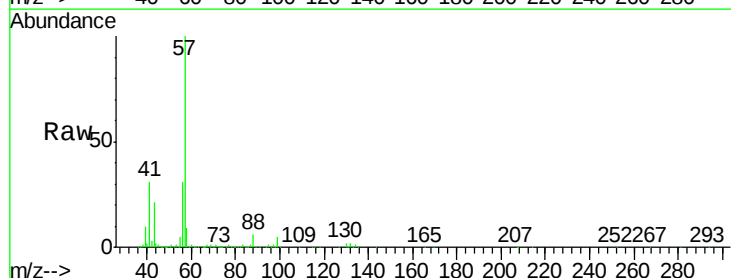
Manual Integrations
APPROVED

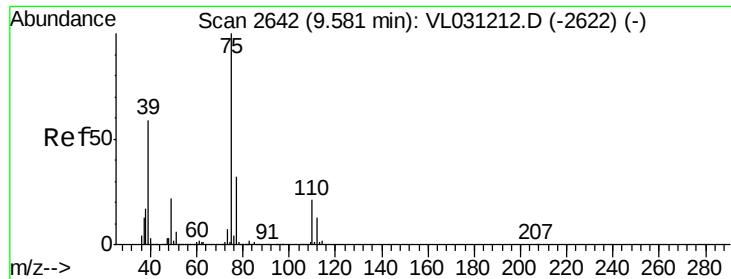
MMDadoda
12/15/2017 4:06:55 PM



#44
2,2,4-Trimethylpentane
Concen: 0.97 ppbv
RT: 8.15 min Scan# 2198
Delta R.T. 0.00 min
Lab File: VL031214.D
Acq: 13 Dec 2017 23:45

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	31.2	25.5	38.3	
56	30.6	25.0	37.6	





#45

t-1,3-Dichloropropene

Concen: 1.00 ppbv

RT: 9.58 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 75 Resp: 263146

Ion Ratio Lower Upper

75 100

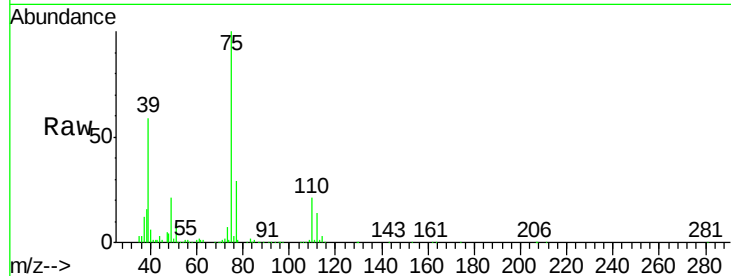
77 29.3 25.4 38.2

Manual Integrations

APPROVED

MMMadoda

12/15/2017 4:06:55 PM



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

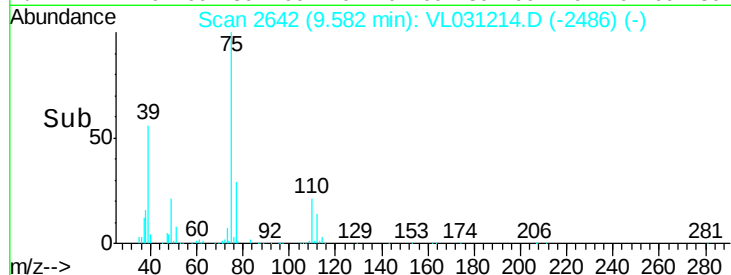
150000

100000

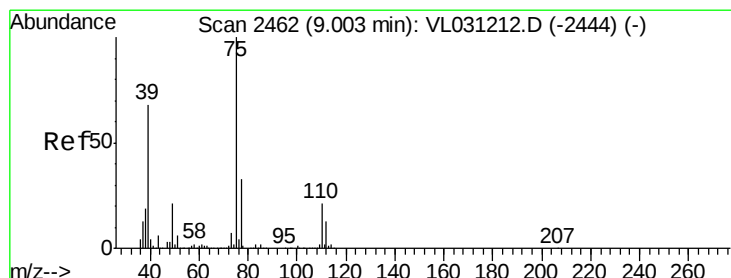
50000

0

9.50 9.55 9.60 9.65



Time-->



#46

cis-1,3-Dichloropropene

Concen: 0.98 ppbv

RT: 9.00 min Scan# 2461

Delta R.T. -0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

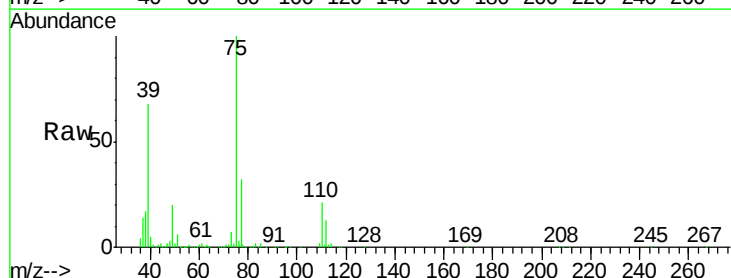
Tgt Ion: 75 Resp: 341724

Ion Ratio Lower Upper

75 100

39 66.9 54.2 81.4

77 32.4 26.2 39.4



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

200000

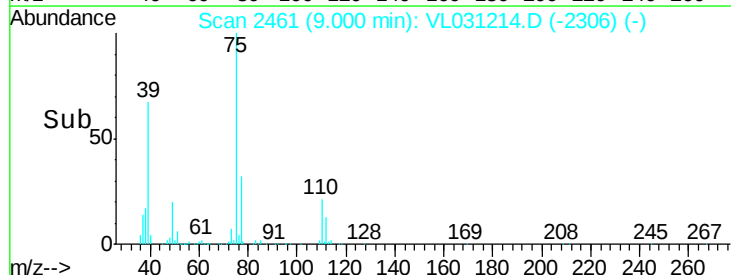
150000

100000

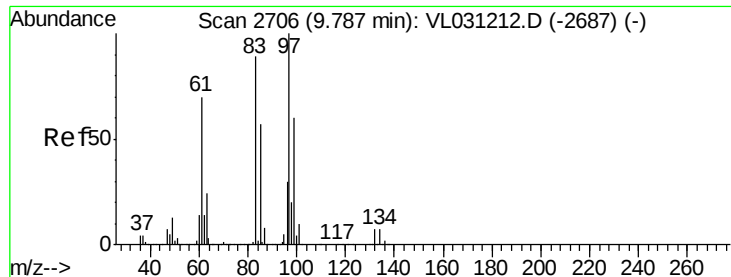
50000

0

8.95 9.00 9.05



Time-->



#47

1,1,2-Trichloroethane

Concen: 0.91 ppbv

RT: 9.78 min Scan# 2704

Delta R.T. -0.01 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

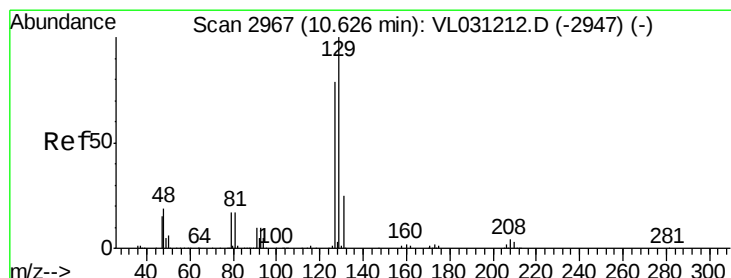
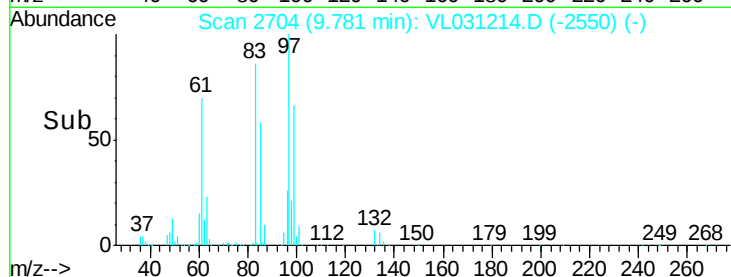
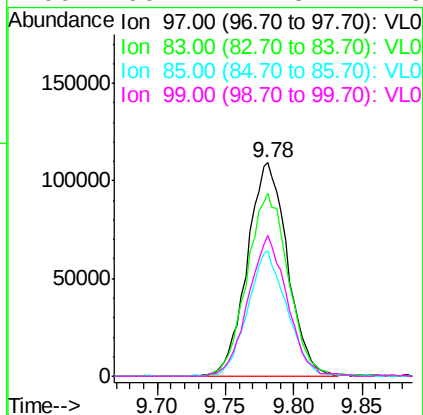
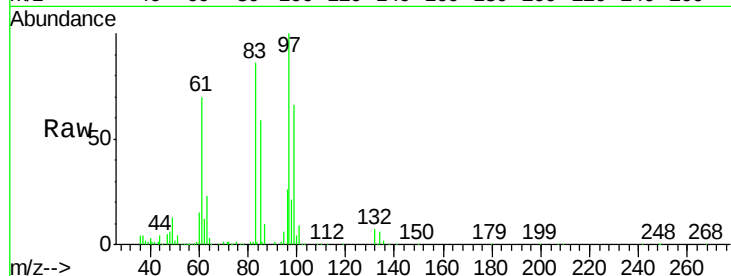
ClientSampleId :

VSTDIC001

Tot Ion:	97	Resp:	223329
Ion Ratio	Lower	Upper	
97	100		
83	85.4	71.0	106.4
85	58.5	45.3	67.9
99	66.2	47.8	71.6

Manual Integrations
APPROVED

MMDadoda
12/15/2017 4:06:55 PM



#48

Dibromochloromethane

Concen: 1.01 ppbv

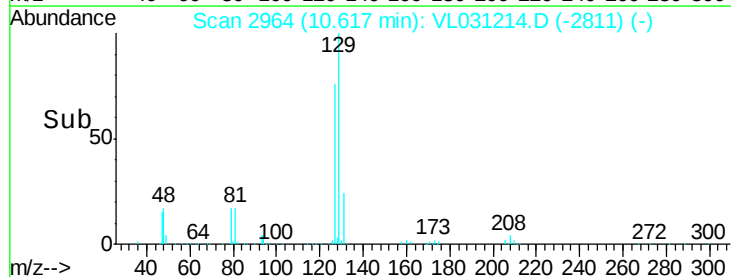
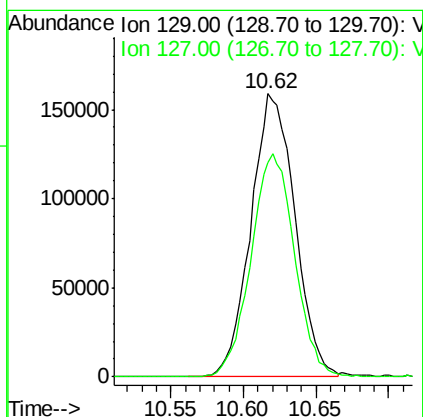
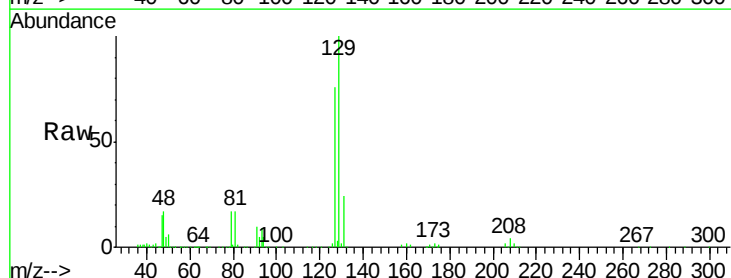
RT: 10.62 min Scan# 2964

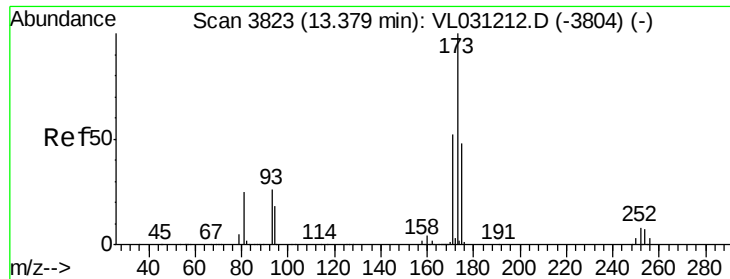
Delta R.T. -0.01 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Tgt Ion:	129	Resp:	335266
Ion Ratio	Lower	Upper	
129	100		
127	78.5	39.1	117.5





#49

Bromoform

Concen: 0.92 ppbv

RT: 13.37 min Scan# 3821

Delta R.T. -0.01 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

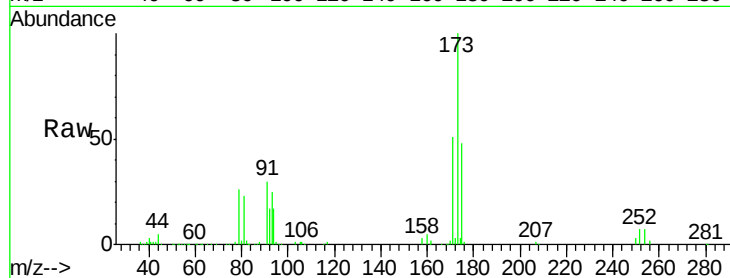
ClientSampleId :

VSTDIC001

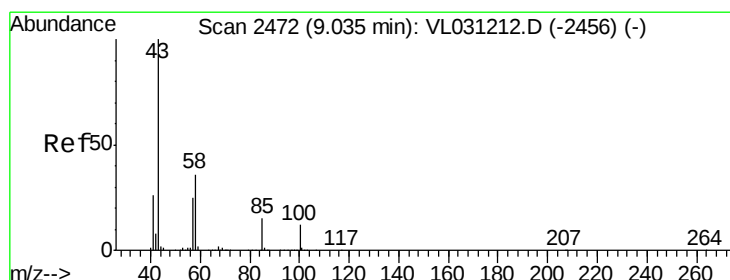
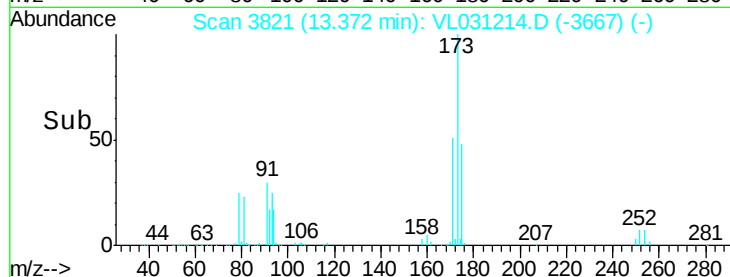
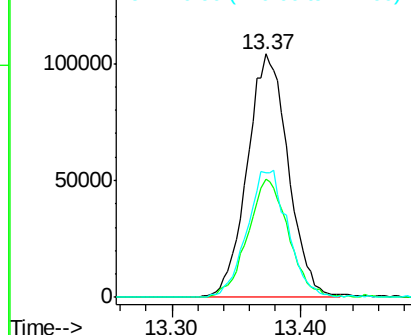
Tot Ion:	173	Resp:	230309
Ion Ratio	Lower	Upper	
173	100		
175	48.3	39.0	58.4
171	52.0	41.8	62.8

Manual Integrations
APPROVED

MMDadoda
12/15/2017 4:06:55 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: 0.92 ppbv

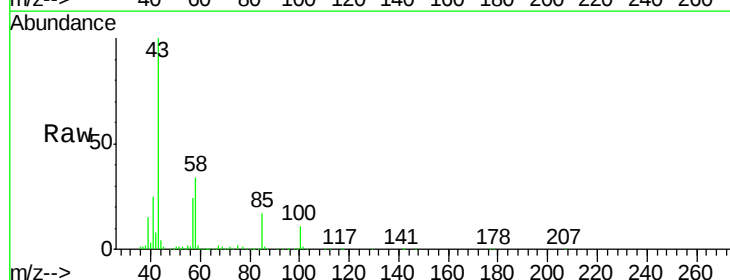
RT: 9.04 min Scan# 2474

Delta R.T. 0.01 min

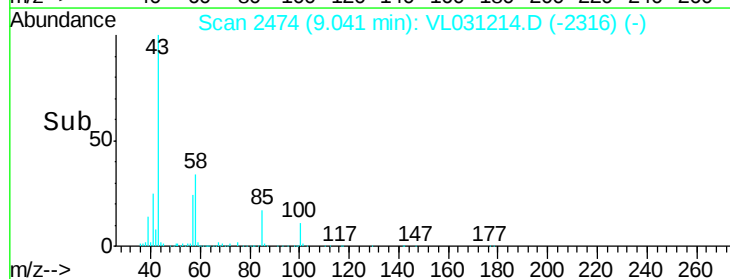
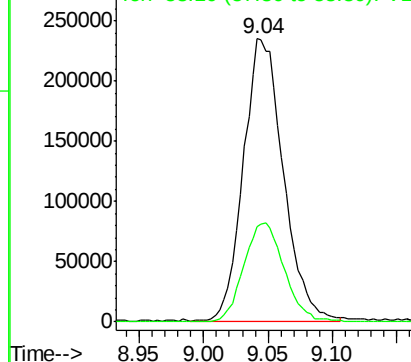
Lab File: VL031214.D

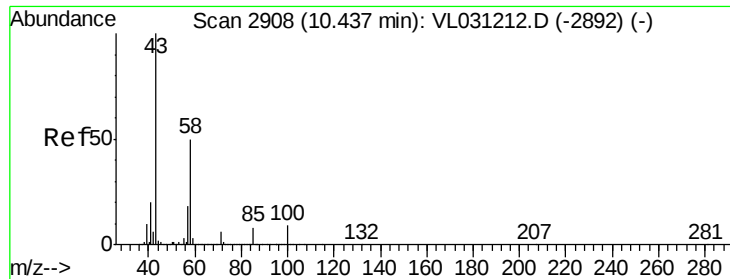
Acq: 13 Dec 2017 23:45

Tgt Ion:	43	Resp:	505837
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





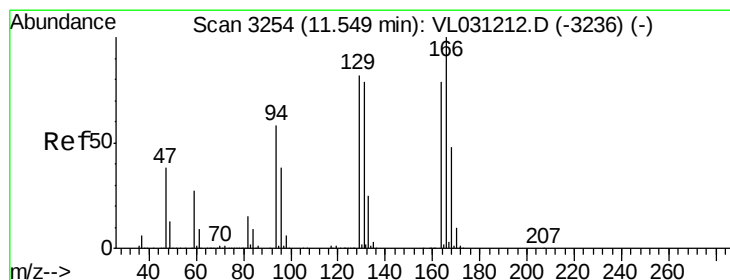
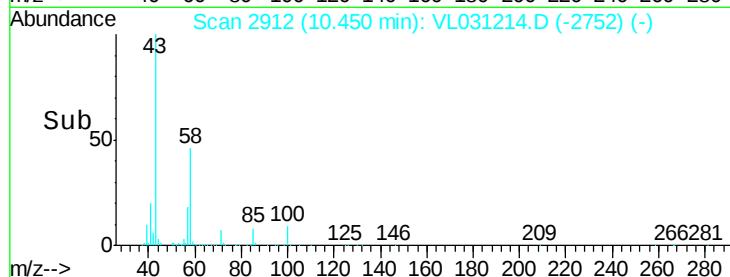
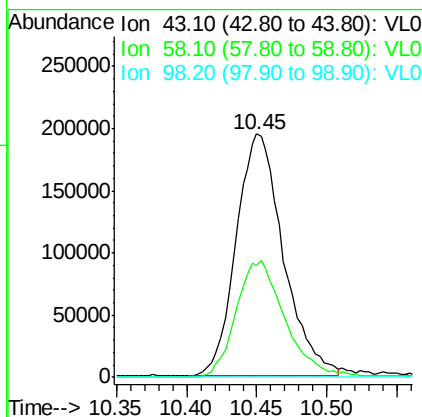
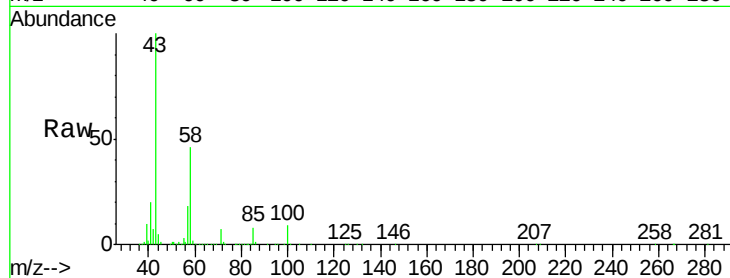
#51
2-Hexanone
Concen: 0.88 ppbv
RT: 10.45 min Scan# 2912
Delta R.T. 0.01 min
Lab File: VL031214.D
Acq: 13 Dec 2017 23:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
43	100	456366		
58	51.2	39.8	59.6	
98	0.1	0.0	0.0#	

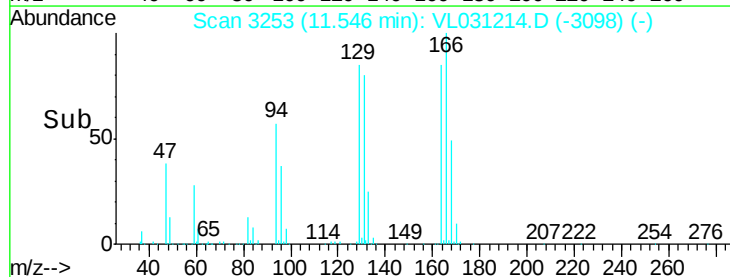
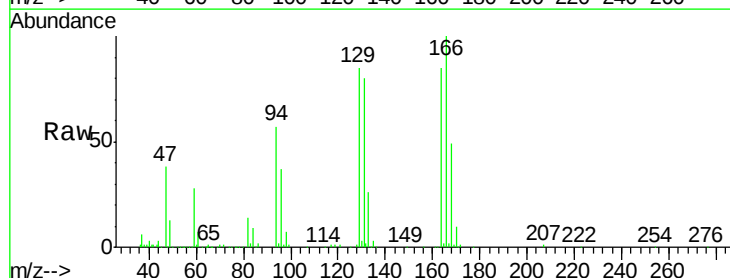
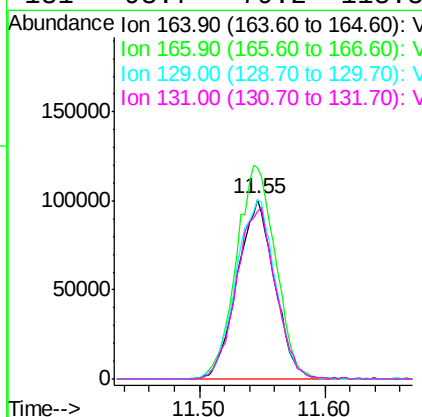
Manual Integrations
APPROVED

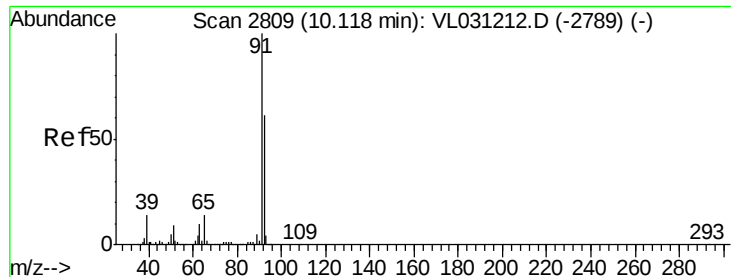
MMDadoda
12/15/2017 4:06:55 PM



#52
Tetrachloroethene
Concen: 0.97 ppbv
RT: 11.55 min Scan# 3253
Delta R.T. -0.00 min
Lab File: VL031214.D
Acq: 13 Dec 2017 23:45

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	208816		
166	117.7	100.6	151.0	
129	100.2	82.9	124.3	
131	93.7	79.2	118.8	





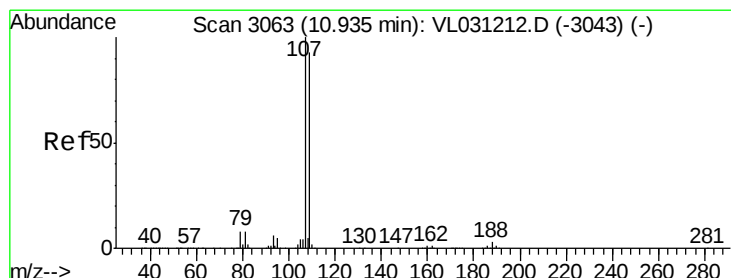
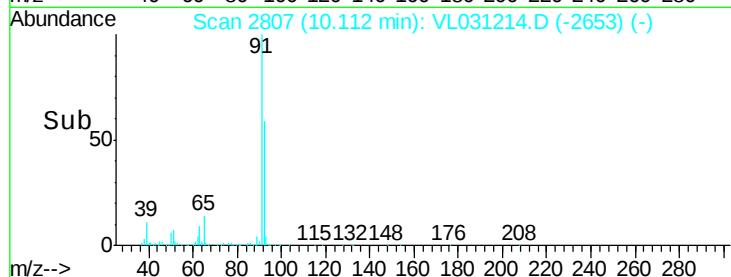
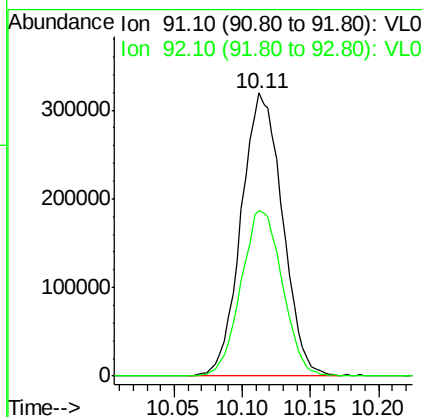
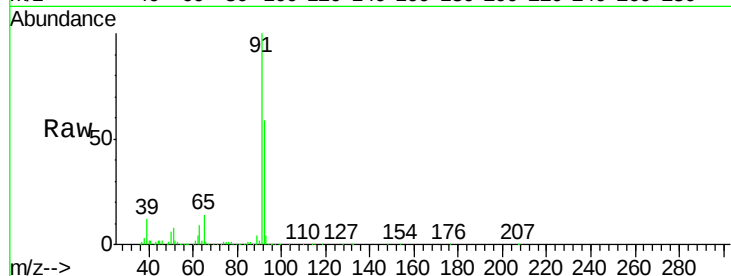
#53
Toluene
Concen: 0.97 ppbv
RT: 10.11 min Scan# 2807
Delta R.T. -0.01 min
Lab File: VL031214.D
Acq: 13 Dec 2017 23:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
91	100		
92	59.2	49.1	73.7

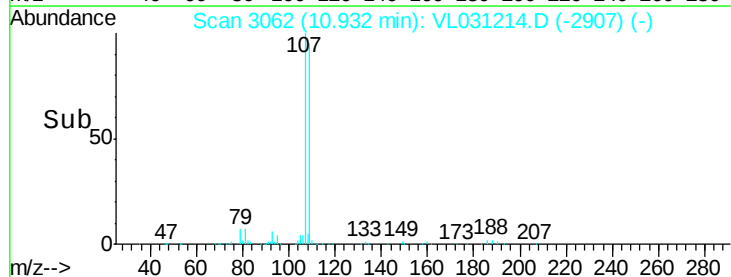
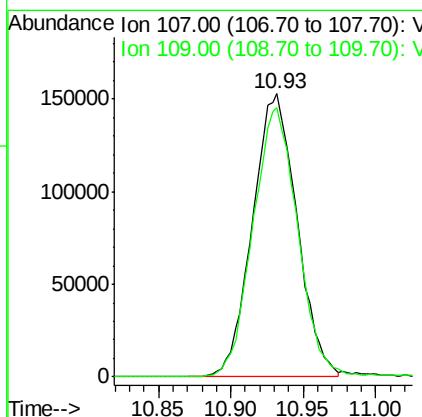
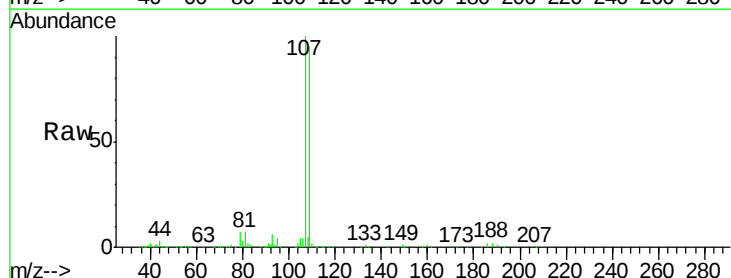
Manual Integrations
APPROVED

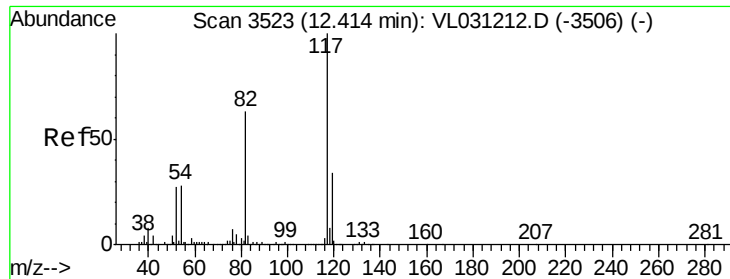
MMDadoda
12/15/2017 4:06:55 PM



#54
1,2-Dibromoethane
Concen: 0.93 ppbv
RT: 10.93 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VL031214.D
Acq: 13 Dec 2017 23:45

Tgt Ion	Ratio	Lower	Upper
107	100		
109	95.0	74.7	112.1





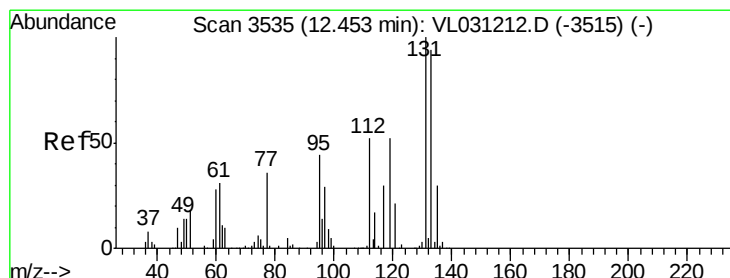
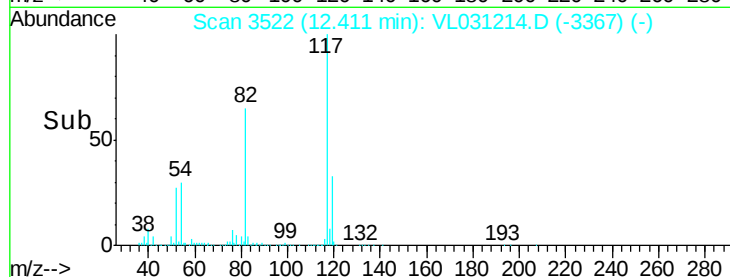
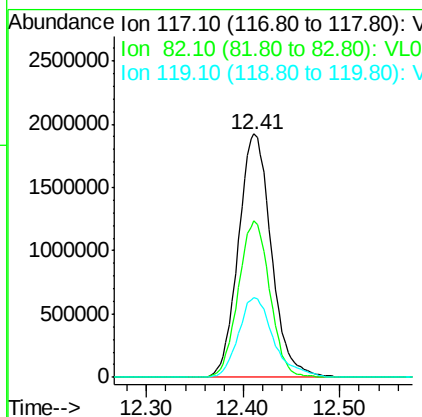
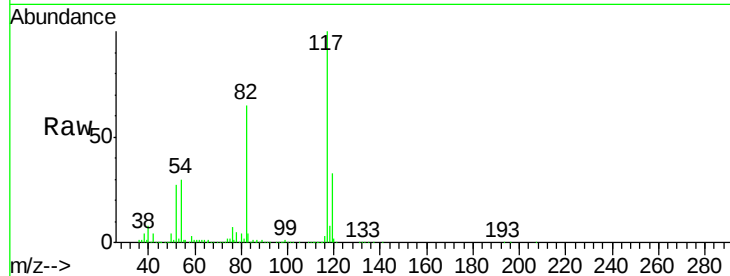
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.41 min Scan# 3522
Delta R.T. -0.00 min
Lab File: VL031214.D
Acq: 13 Dec 2017 23:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
117	100		
82	61.7	48.1	72.1
119	35.0	23.1	34.7#

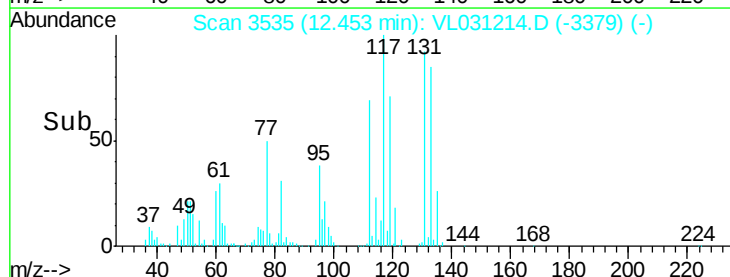
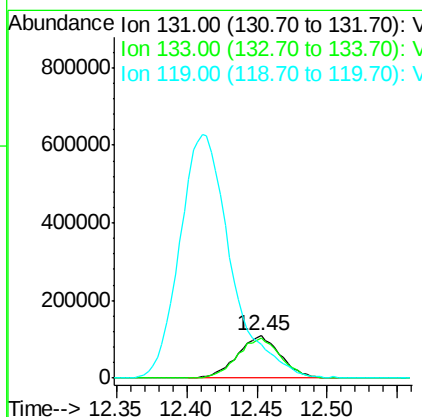
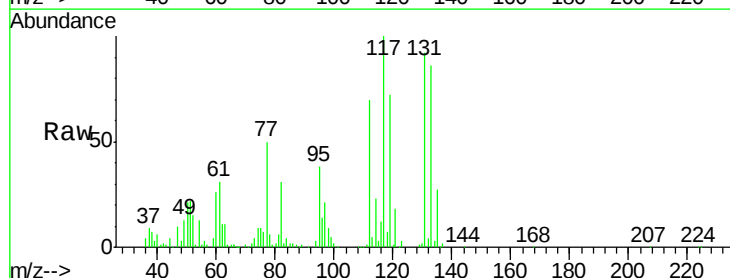
Manual Integrations
APPROVED

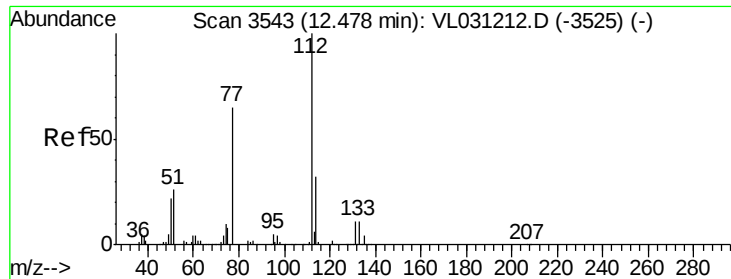
MMDadoda
12/15/2017 4:06:55 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 1.24 ppbv
RT: 12.45 min Scan# 3535
Delta R.T. 0.00 min
Lab File: VL031214.D
Acq: 13 Dec 2017 23:45

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.8	76.1	114.1
119	687.5	108.5	162.7#





#57

Chlorobenzene

Concen: 1.10 ppbv

RT: 12.47 min Scan# 3541

Delta R.T. -0.01 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

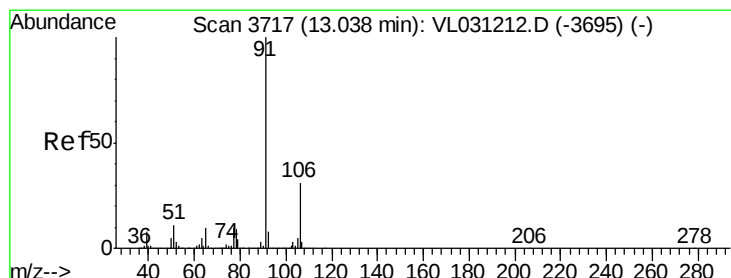
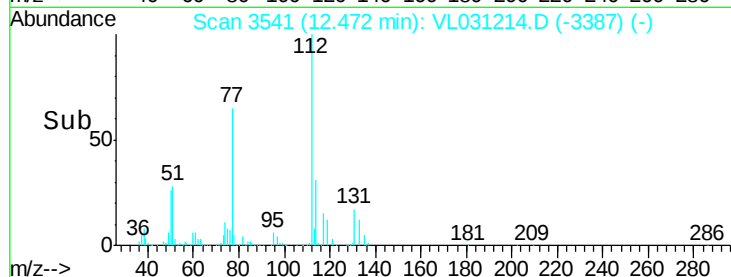
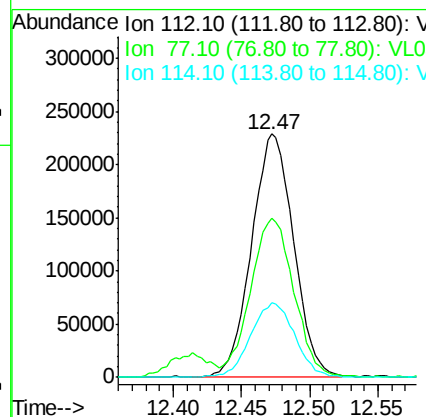
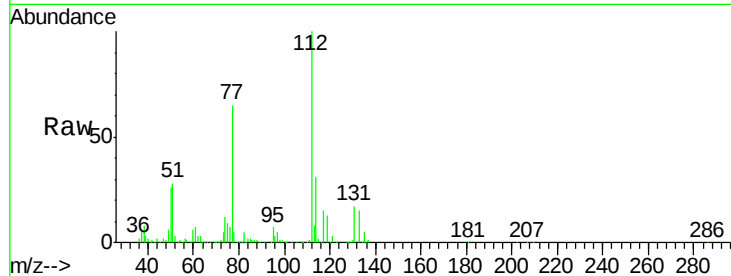
ClientSampleId :

VSTDIC001

Tot Ion:	112	Resp:	489064
Ion Ratio	Lower	Upper	
112	100		
77	64.4	52.9	79.3
114	30.3	29.1	35.5

Manual Integrations
APPROVED

MMDadoda
12/15/2017 4:06:55 PM



#58

Ethyl Benzene

Concen: 1.10 ppbv

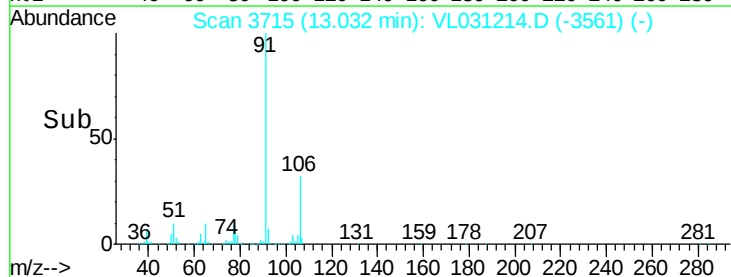
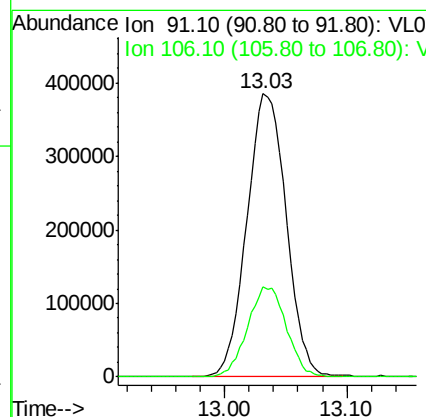
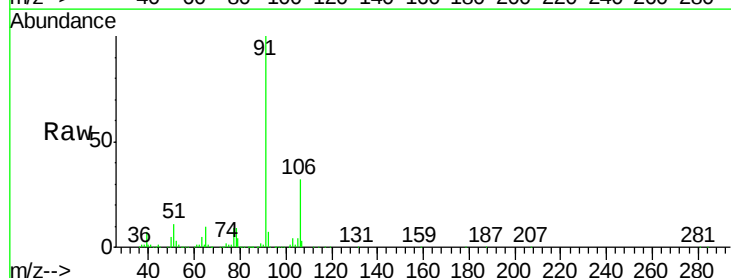
RT: 13.03 min Scan# 3715

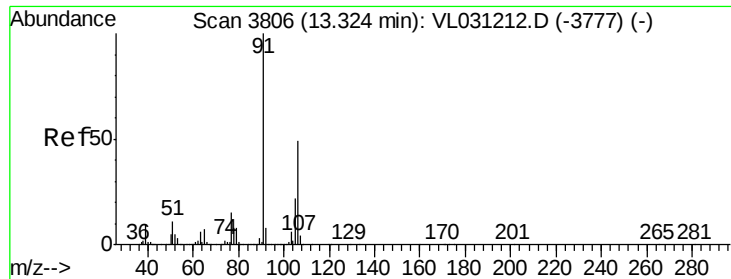
Delta R.T. -0.01 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Tgt Ion:	91	Resp:	857730
Ion Ratio	Lower	Upper	
91	100		
106	31.7	25.1	37.7





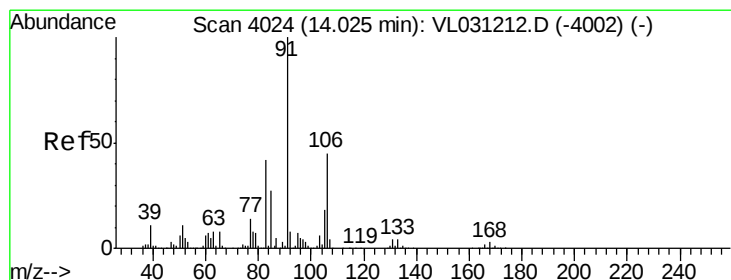
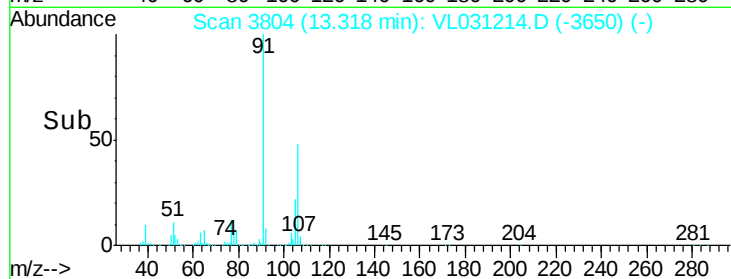
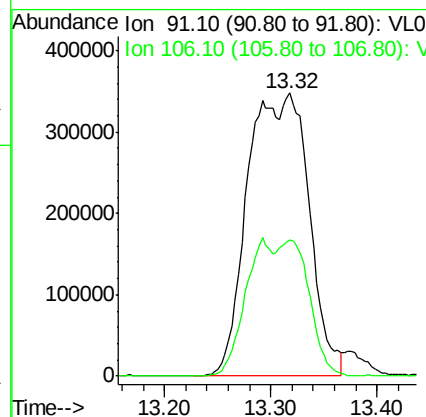
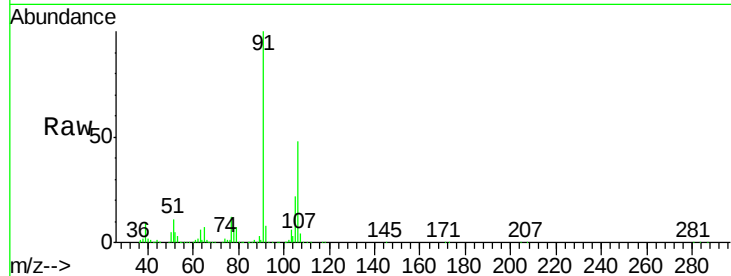
#59
m/p-Xylene
Concen: 2.12 ppbv m
RT: 13.32 min Scan# 3804
Delta R.T. -0.01 min
Lab File: VL031214.D
Acq: 13 Dec 2017 23:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion: 91 Resp: 1391975
Ion Ratio Lower Upper
91 100
106 0.0 38.5 57.7#

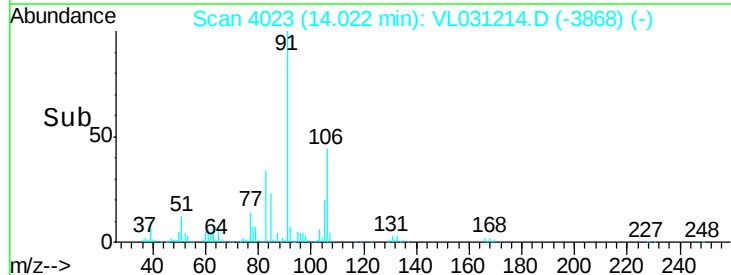
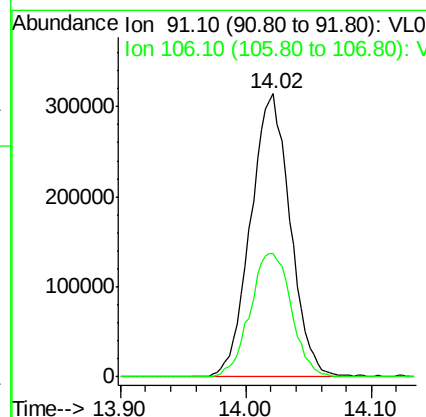
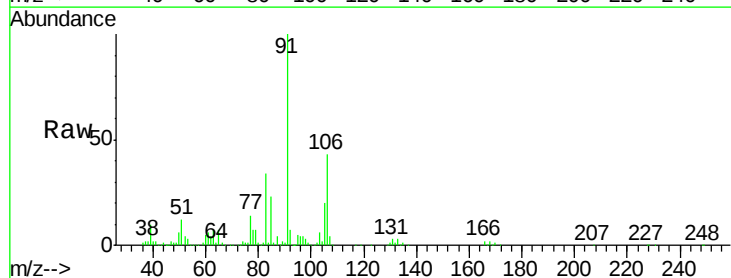
Manual Integrations
APPROVED

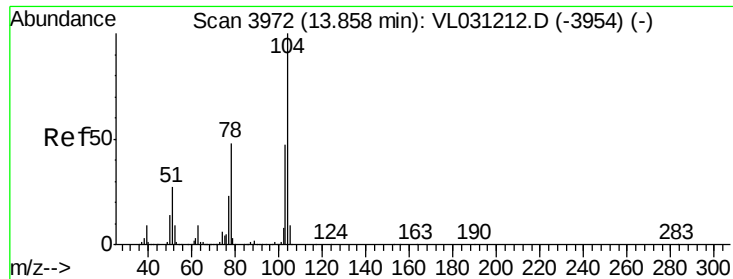
MMDadoda
12/15/2017 4:06:55 PM



#60
o-Xylene
Concen: 1.05 ppbv
RT: 14.02 min Scan# 4023
Delta R.T. -0.00 min
Lab File: VL031214.D
Acq: 13 Dec 2017 23:45

Tgt Ion: 91 Resp: 687075
Ion Ratio Lower Upper
91 100
106 45.7 22.7 68.1





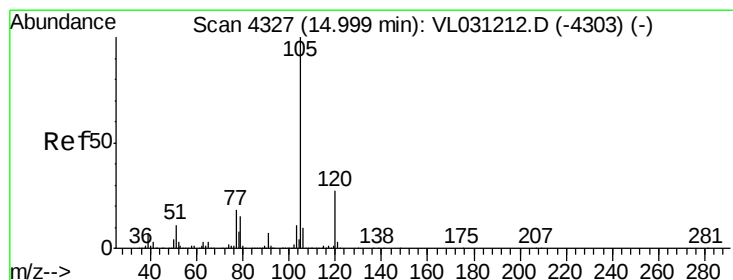
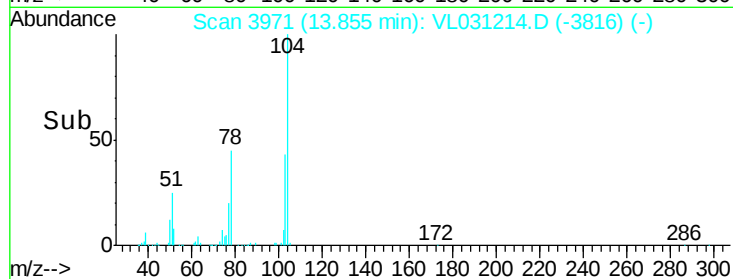
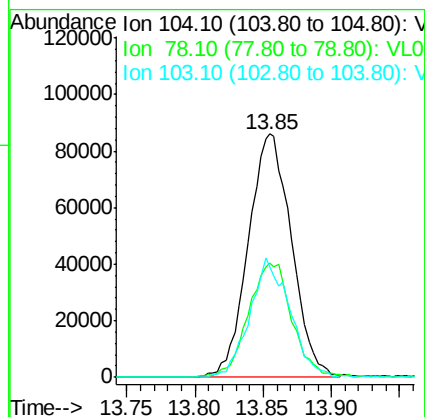
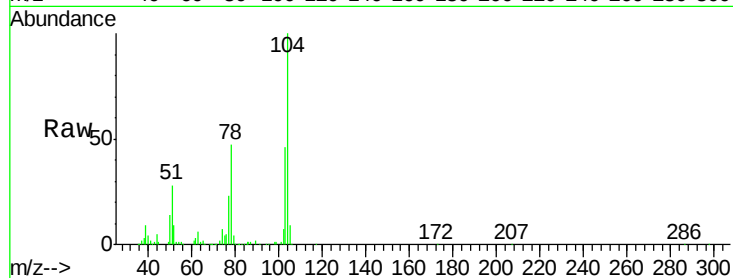
#61
Stvrene
Concen: 1.15 ppbv
RT: 13.85 min Scan# 3971
Delta R.T. -0.00 min
Lab File: VL031214.D
Acq: 13 Dec 2017 23:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion:	104	Resp:	189060
Ion Ratio	Lower	Upper	
104	100		
78	48.0	39.1	58.7
103	45.7	37.3	55.9

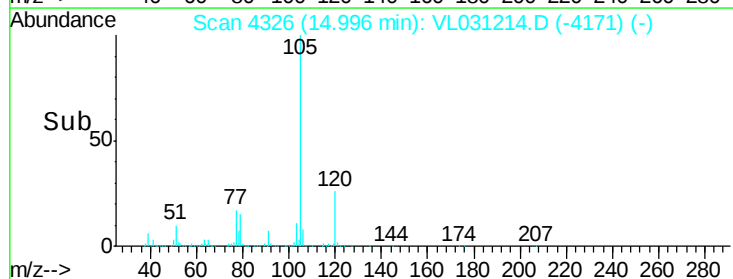
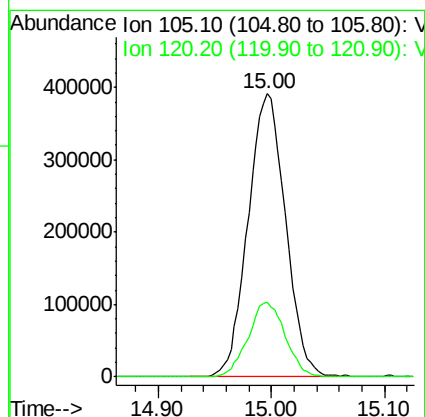
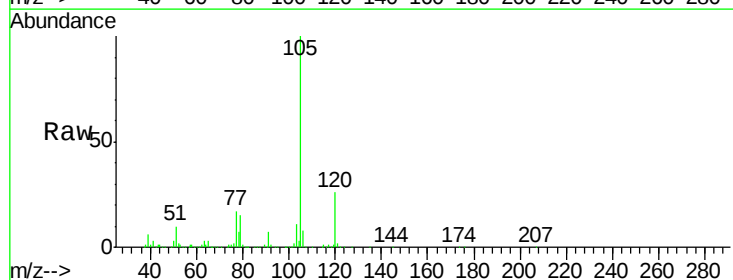
Manual Integrations
APPROVED

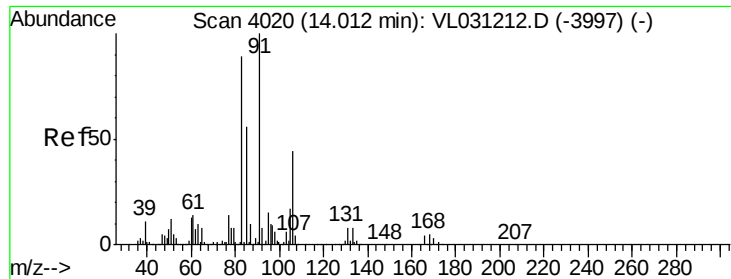
MMDadoda
12/15/2017 4:06:55 PM



#62
Isopropylbenzene
Concen: 1.15 ppbv
RT: 15.00 min Scan# 4326
Delta R.T. -0.00 min
Lab File: VL031214.D
Acq: 13 Dec 2017 23:45

Tgt Ion:	105	Resp:	901523
Ion Ratio	Lower	Upper	
105	100		
120	26.3	21.0	31.6





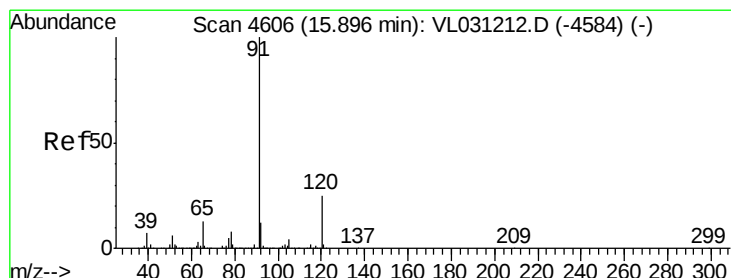
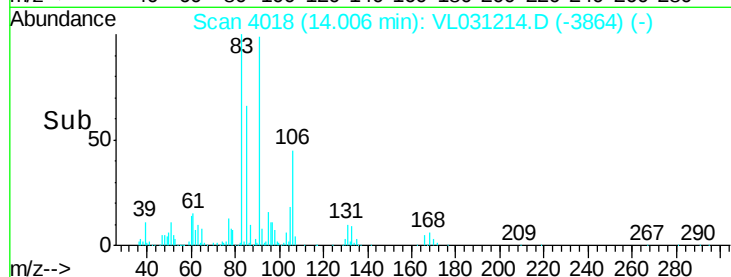
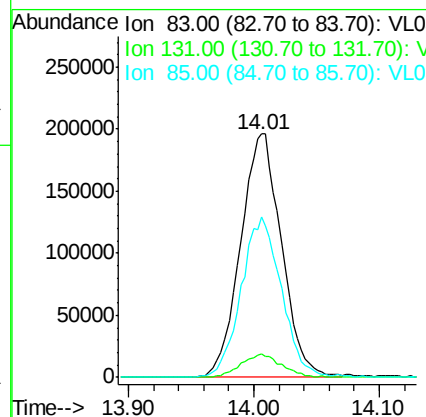
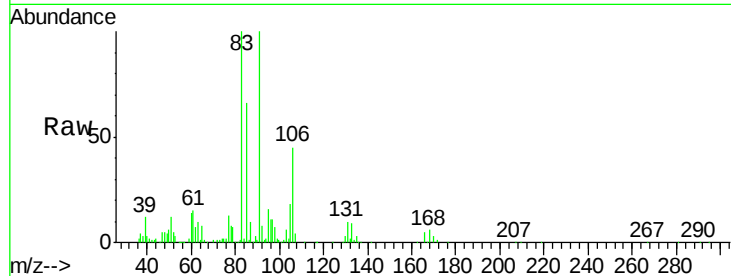
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.87 ppbv
 RT: 14.01 min Scan# 4018
 Delta R.T. -0.01 min
 Lab File: VL031214.D
 Acq: 13 Dec 2017 23:45

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	83	Resp	442335
Ion	Ratio	Lower	Upper
83	100		
131	9.7	4.8	14.3
85	65.3	32.1	96.5

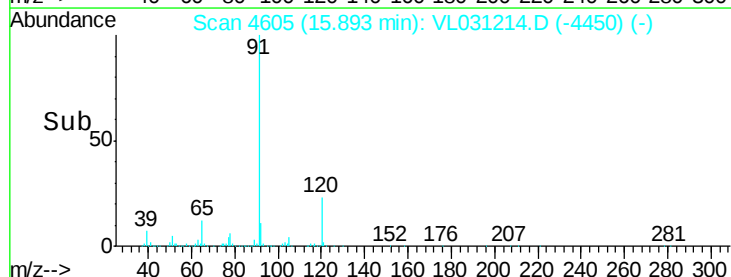
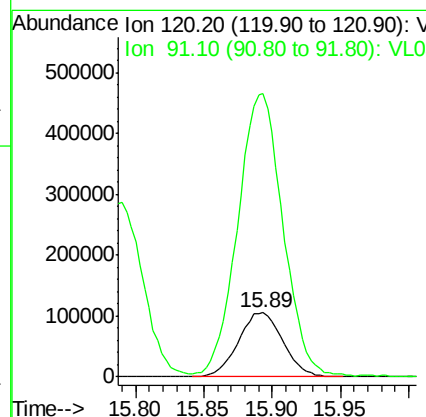
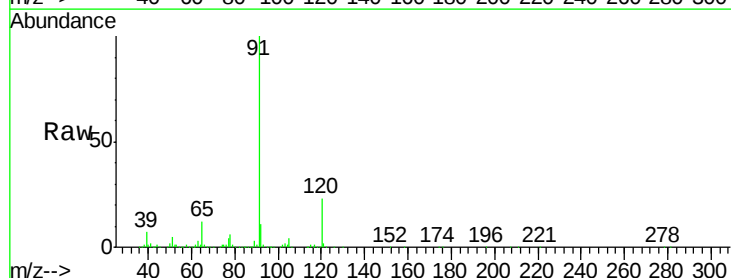
Manual Integrations
 APPROVED

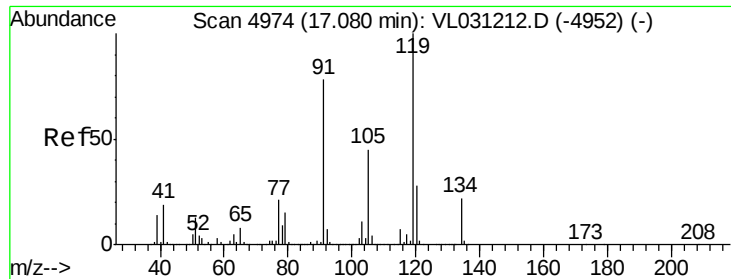
MMDadoda
 12/15/2017 4:06:55 PM



#64
 n-propylbenzene
 Concen: 1.11 ppbv
 RT: 15.89 min Scan# 4605
 Delta R.T. -0.00 min
 Lab File: VL031214.D
 Acq: 13 Dec 2017 23:45

Tgt Ion	120	Resp	238350
Ion	Ratio	Lower	Upper
120	100		
91	451.9	352.1	528.1





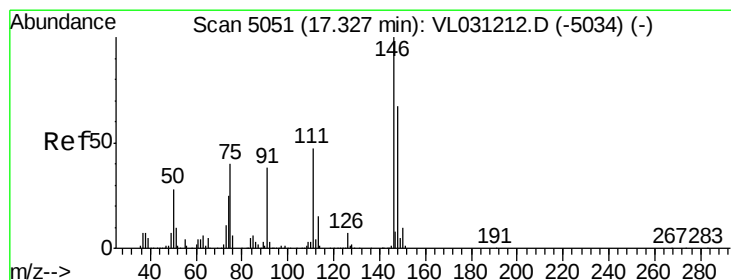
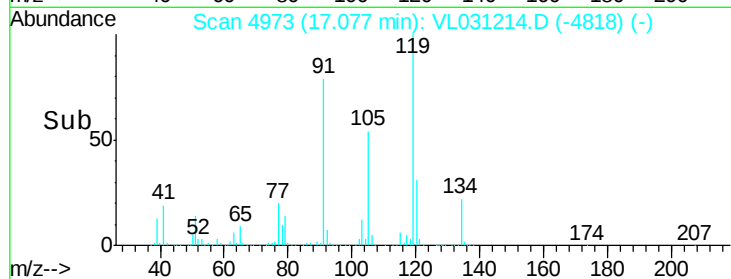
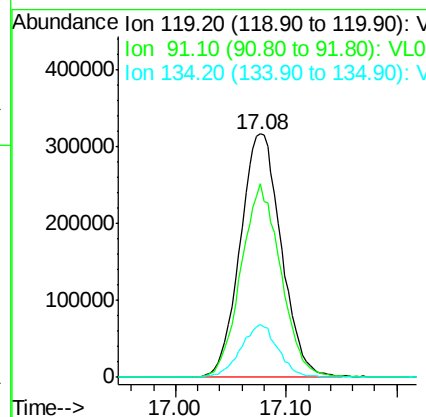
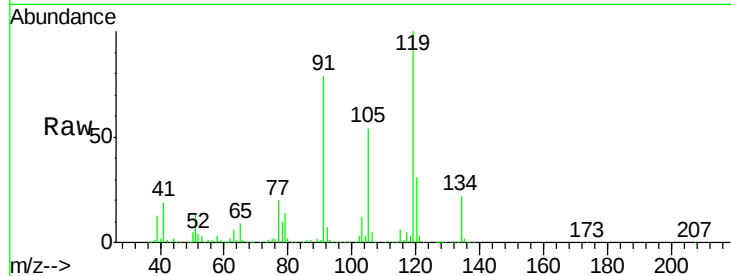
#65
 tert-Butylbenzene
 Concen: 1.18 ppbv
 RT: 17.08 min Scan# 4973
 Delta R.T. -0.00 min
 Lab File: VL031214.D
 Acq: 13 Dec 2017 23:45

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
119	100	812378		
91	77.3	63.3	94.9	
134	19.8	16.1	24.1	

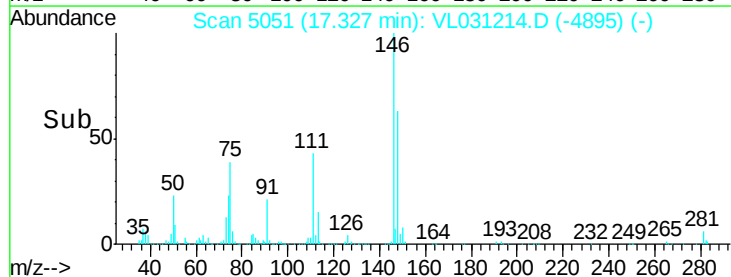
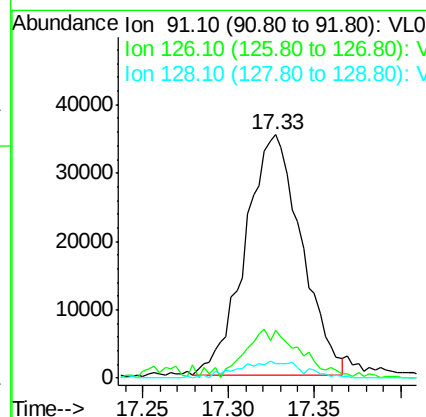
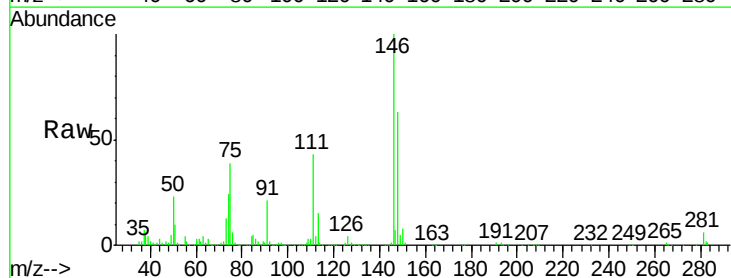
Manual Integrations
 APPROVED

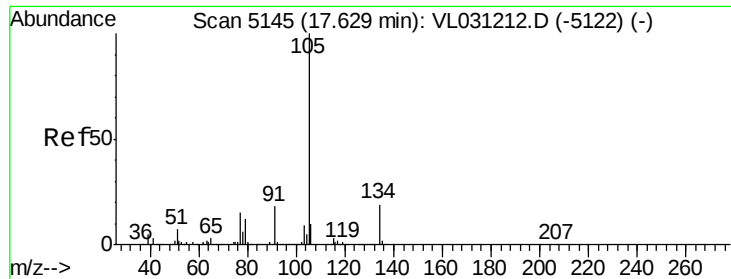
MMDadoda
 12/15/2017 4:06:55 PM



#66
 Benzyl Chloride
 Concen: 1.35 ppbv
 RT: 17.33 min Scan# 5051
 Delta R.T. 0.00 min
 Lab File: VL031214.D
 Acq: 13 Dec 2017 23:45

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	79460		
126	21.8	15.2	22.8	
128	8.1	4.9	7.3#	





#67

sec-Butylbenzene

Concen: 1.07 ppbv

RT: 17.63 min Scan# 5144

Delta R.T. -0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 105 Resp: 1110498

Ion Ratio Lower Upper

105 100

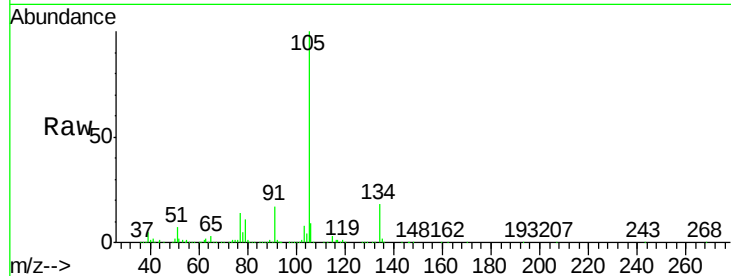
134 18.6 15.3 22.9

Manual Integrations

APPROVED

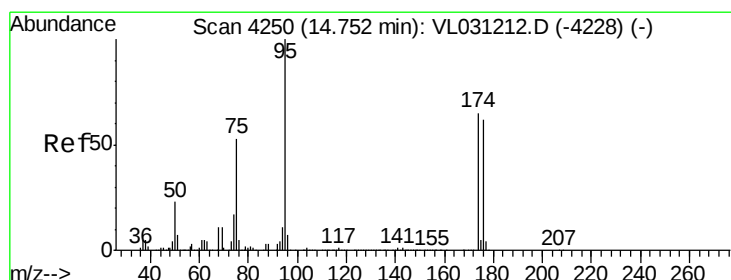
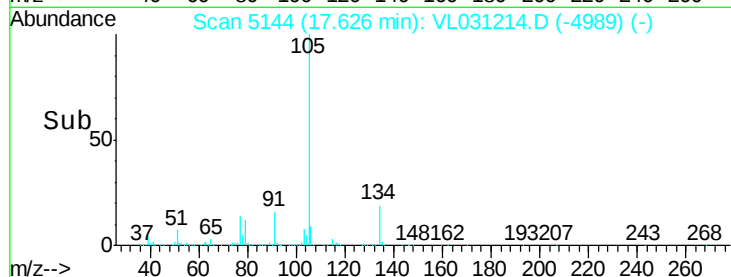
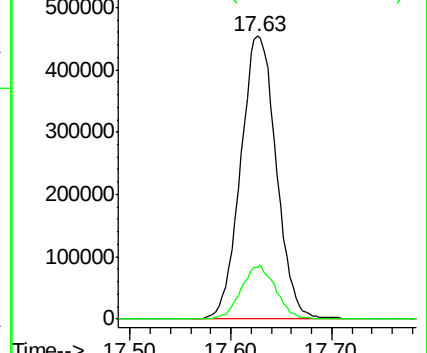
MMDadoda

12/15/2017 4:06:55 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: 9.15 ppbv

RT: 14.75 min Scan# 4249

Delta R.T. -0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

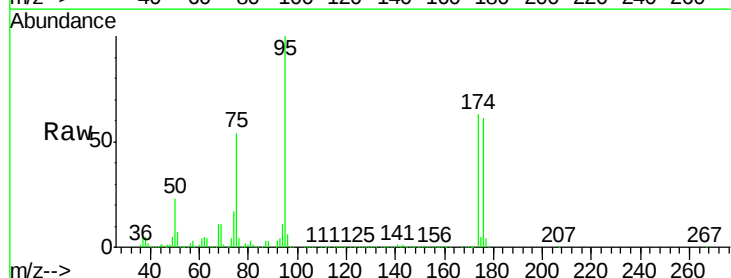
Tgt Ion: 95 Resp: 3219547

Ion Ratio Lower Upper

95 100

174 65.9 52.5 78.7

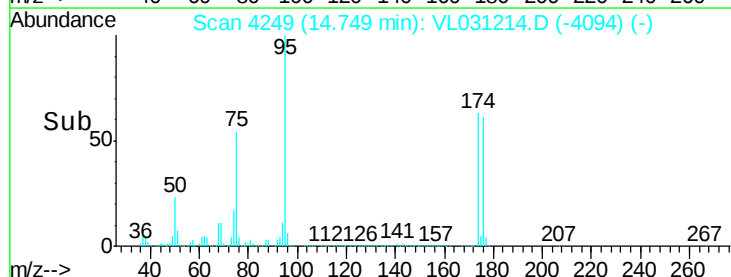
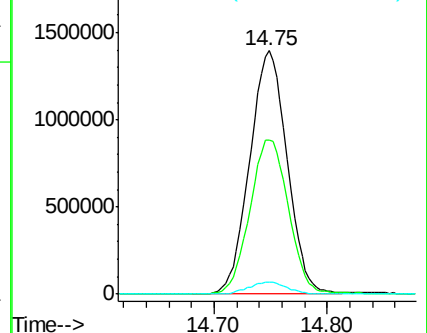
175 5.0 4.1 6.1

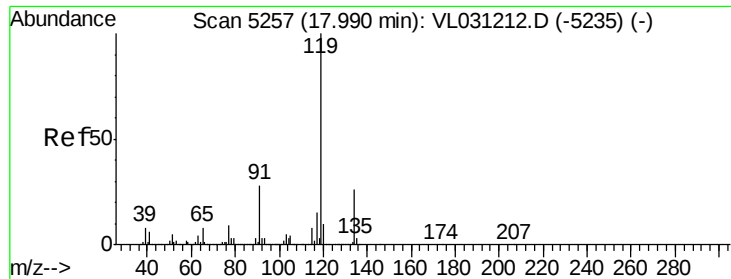


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





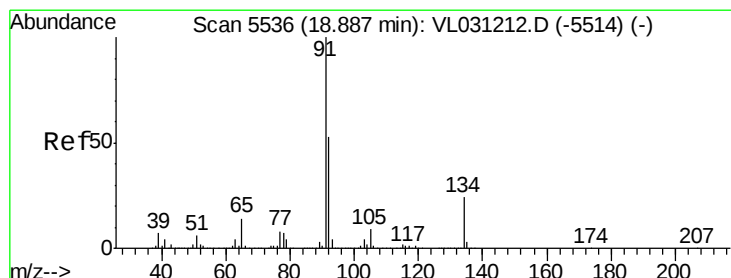
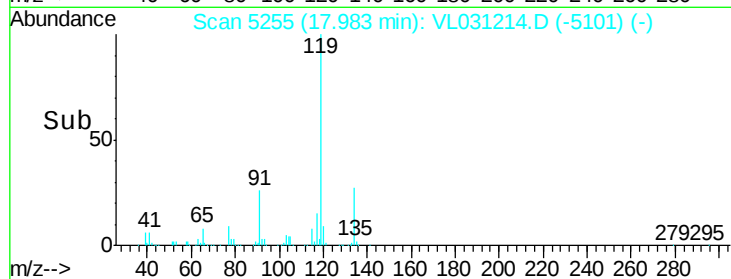
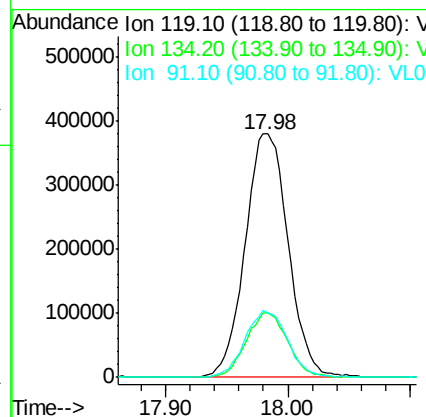
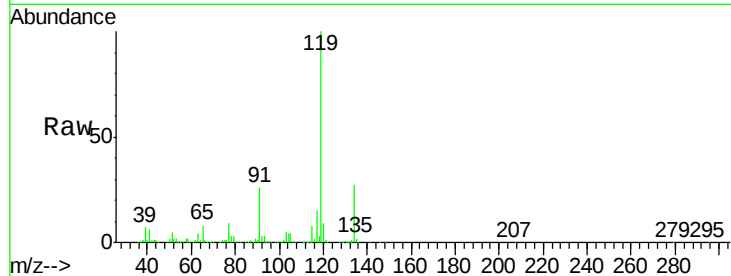
#69
p-Isopropyltoluene
Concen: 1.15 ppbv
RT: 17.98 min Scan# 5255
Delta R.T. -0.01 min
Lab File: VL031214.D
Acq: 13 Dec 2017 23:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.8	20.7	31.1
91	27.6	22.3	33.5

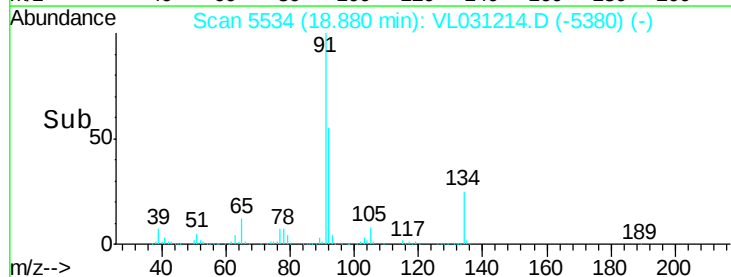
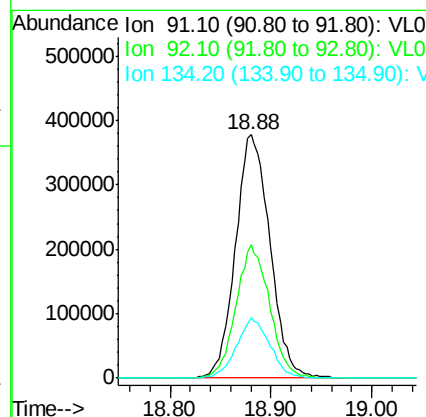
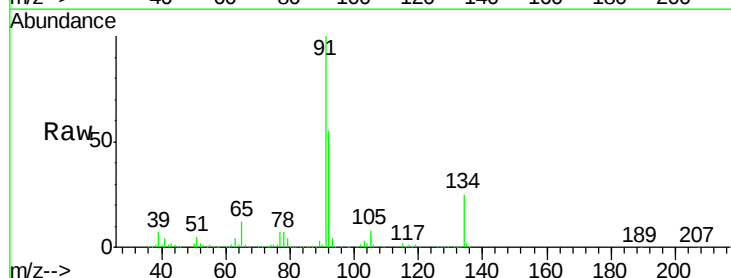
Manual Integrations
APPROVED

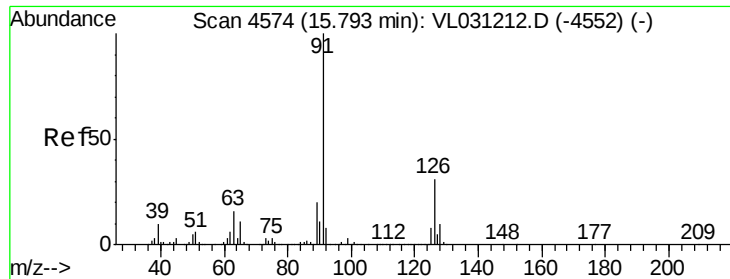
MMDadoda
12/15/2017 4:06:55 PM



#70
n-Butylbenzene
Concen: 1.01 ppbv
RT: 18.88 min Scan# 5534
Delta R.T. -0.01 min
Lab File: VL031214.D
Acq: 13 Dec 2017 23:45

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.6	43.4	65.2
134	24.0	19.3	28.9





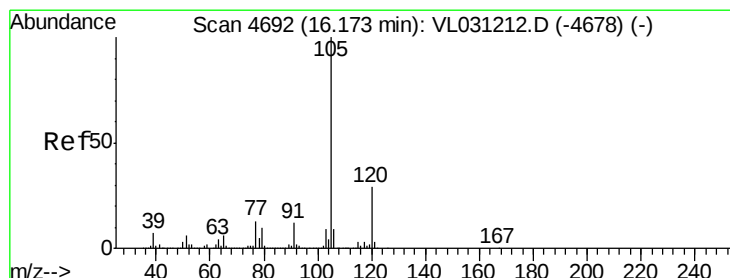
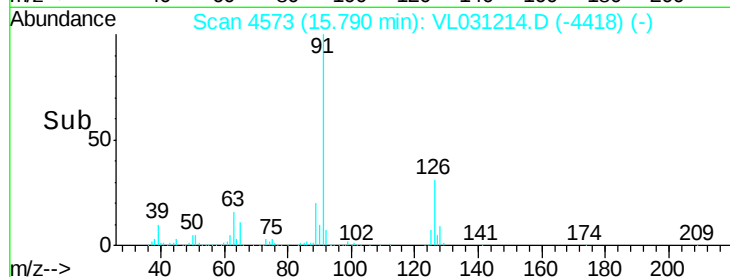
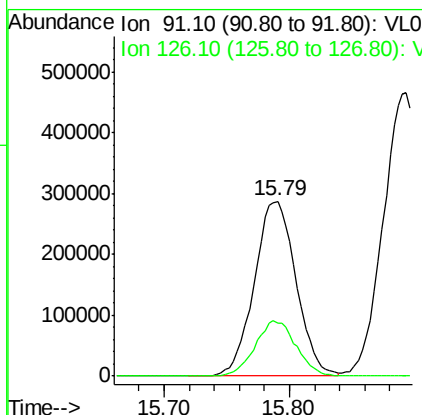
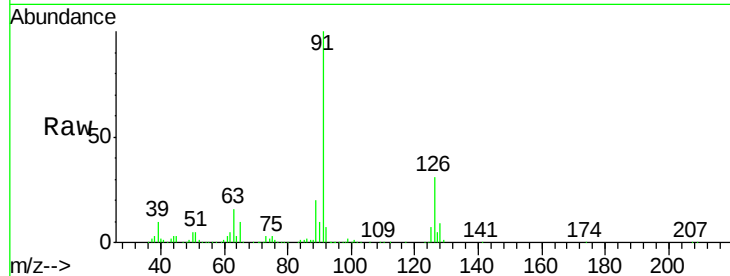
#71
 2-Chlorotoluene
 Concen: 1.05 ppbv
 RT: 15.79 min Scan# 4573
 Delta R.T. -0.00 min
 Lab File: VL031214.D
 Acq: 13 Dec 2017 23:45

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion: 91 Resp: 665926
 Ion Ratio Lower Upper
 91 100
 126 31.3 12.6 50.6

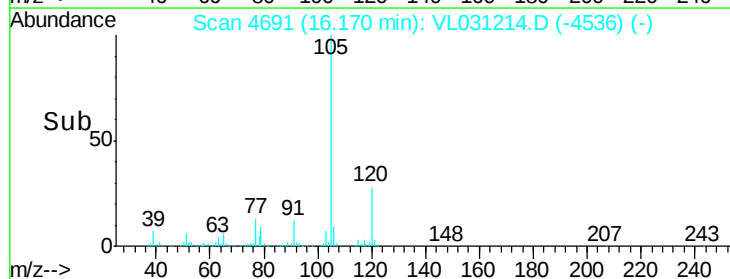
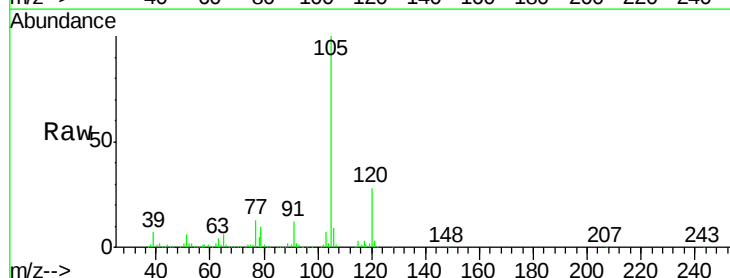
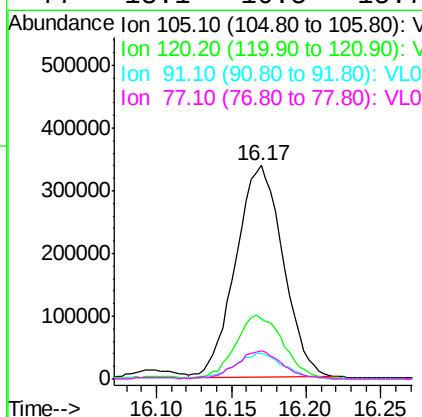
Manual Integrations
 APPROVED

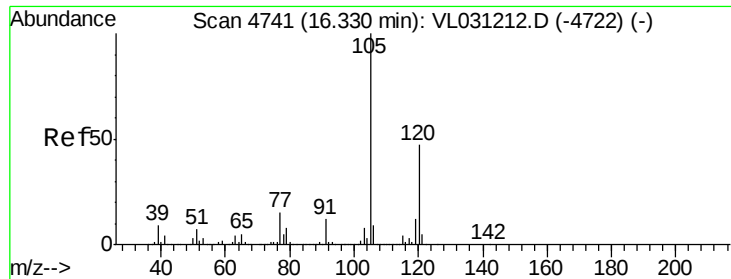
MMDadoda
 12/15/2017 4:06:55 PM



#72
 4-Ethyltoluene
 Concen: 1.12 ppbv
 RT: 16.17 min Scan# 4691
 Delta R.T. -0.00 min
 Lab File: VL031214.D
 Acq: 13 Dec 2017 23:45

Tgt Ion: 105 Resp: 742189
 Ion Ratio Lower Upper
 105 100
 120 30.6 24.2 36.2
 91 11.9 9.8 14.8
 77 13.1 10.5 15.7





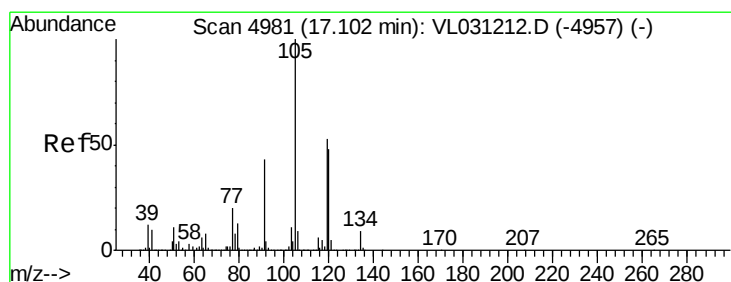
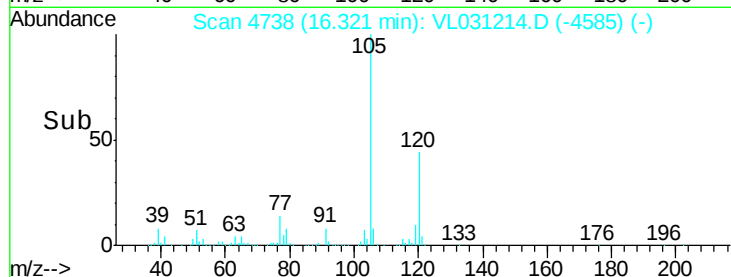
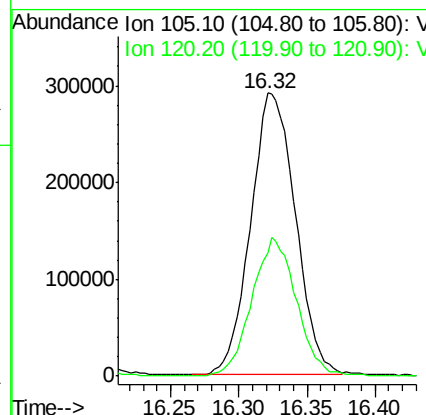
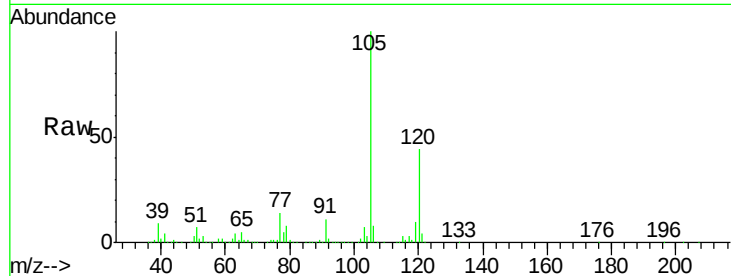
#73
 1,3,5-Trimethylbenzene
 Concen: 1.09 ppbv
 RT: 16.32 min Scan# 4738
 Delta R.T. -0.01 min
 Lab File: VL031214.D
 Acq: 13 Dec 2017 23:45

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
105	100		
120	43.6	37.8	56.6

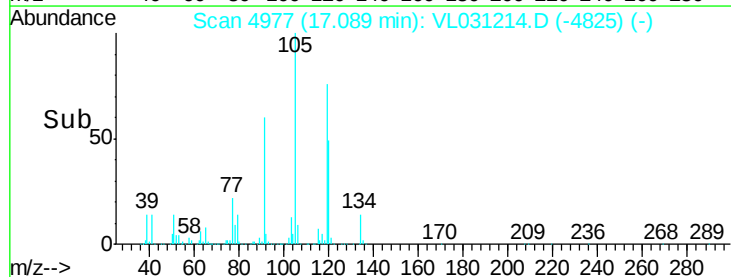
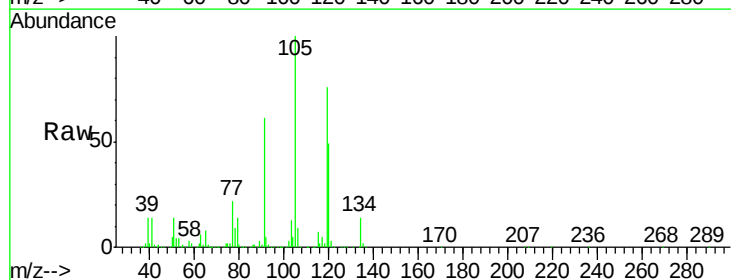
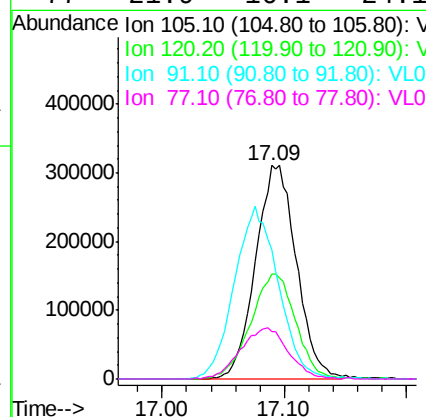
Manual Integrations
 APPROVED

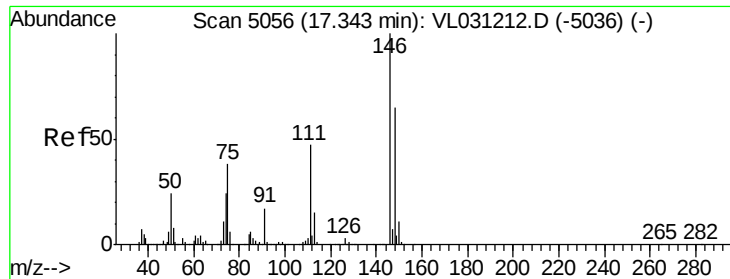
MMDadoda
 12/15/2017 4:06:55 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 1.07 ppbv
 RT: 17.09 min Scan# 4977
 Delta R.T. -0.01 min
 Lab File: VL031214.D
 Acq: 13 Dec 2017 23:45

Tgt Ion	Ratio	Lower	Upper
105	100		
120	48.8	38.6	58.0
91	59.7	34.2	51.4
77	21.9	16.1	24.1





#75

1,3-Dichlorobenzene

Concen: 1.06 ppbv

RT: 17.34 min Scan# 5054

Delta R.T. -0.01 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

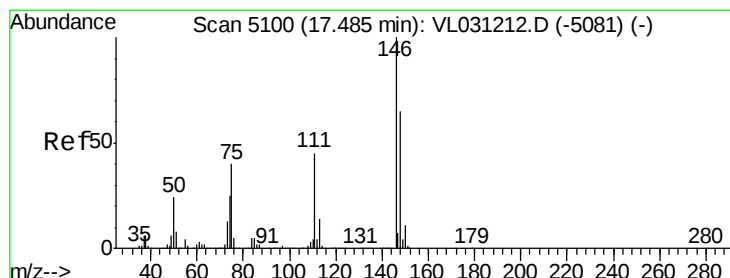
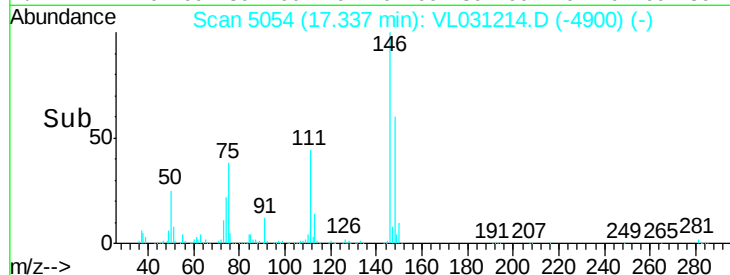
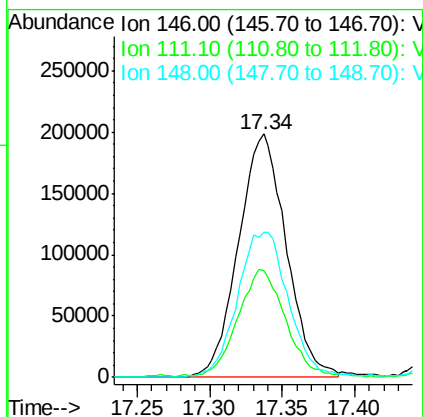
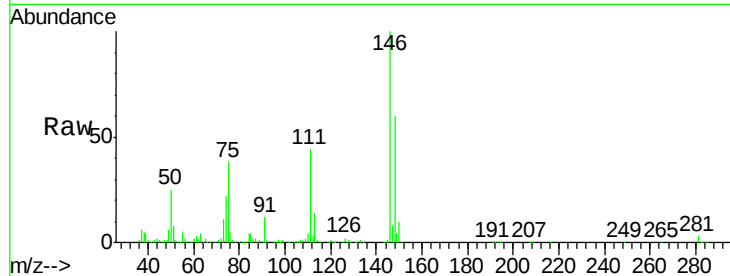
ClientSampled :

VSTDIC001

Tot Ion:	146	Resp:	451087
Ion Ratio	Lower	Upper	
146	100		
111	45.8	22.7	68.1
148	64.7	32.0	96.2

Manual Integrations
APPROVED

MMDadoda
12/15/2017 4:06:55 PM



#76

1,4-Dichlorobenzene

Concen: 1.04 ppbv

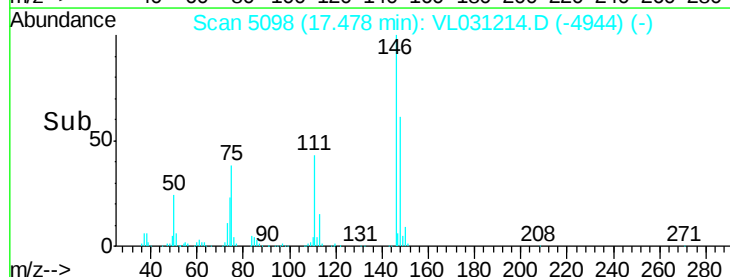
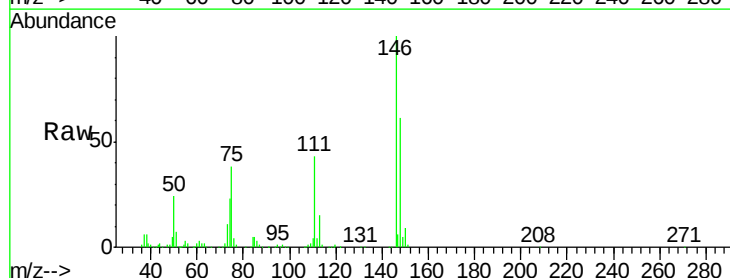
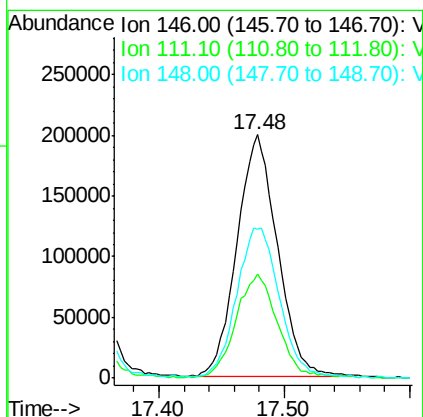
RT: 17.48 min Scan# 5098

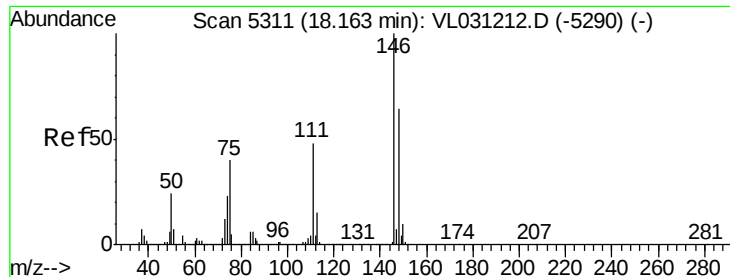
Delta R.T. -0.01 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Tgt Ion:	146	Resp:	446624
Ion Ratio	Lower	Upper	
146	100		
111	45.0	22.1	66.1
148	66.7	32.0	96.0





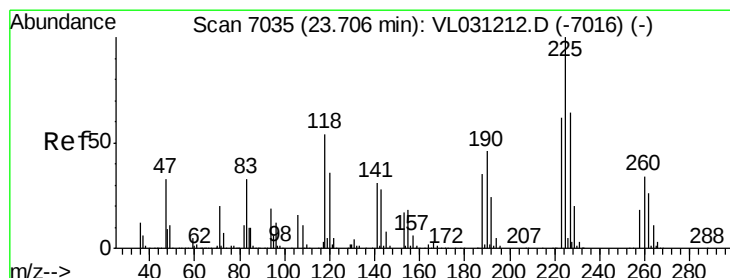
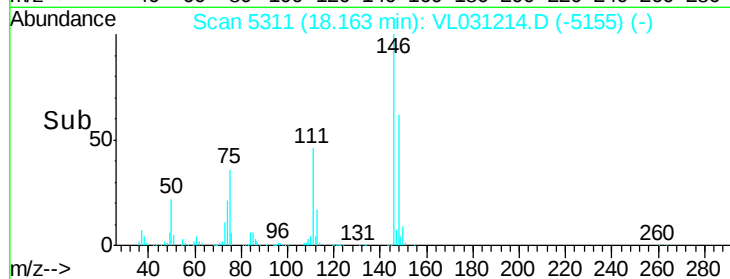
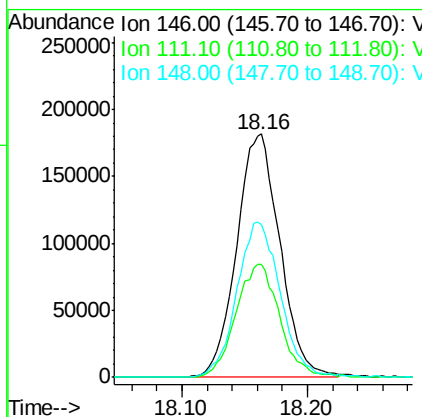
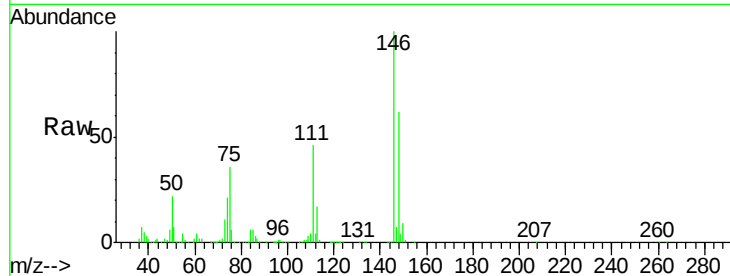
#77
 1,2-Dichlorobenzene
 Concen: 1.03 ppbv
 RT: 18.16 min Scan# 5311
 Delta R.T. 0.00 min
 Lab File: VL031214.D
 Acq: 13 Dec 2017 23:45

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.1	23.3	69.8
148	64.8	31.9	95.7

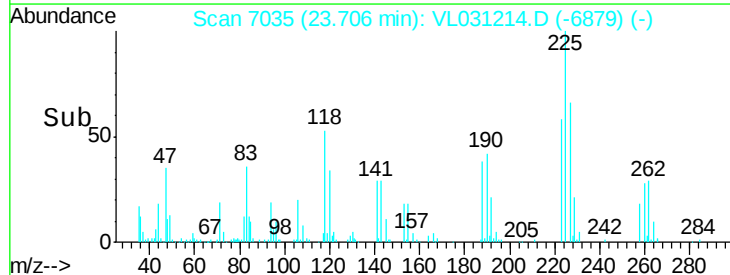
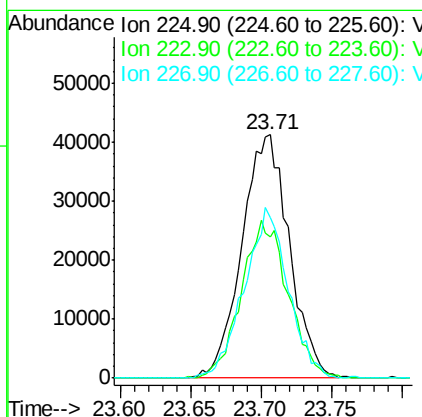
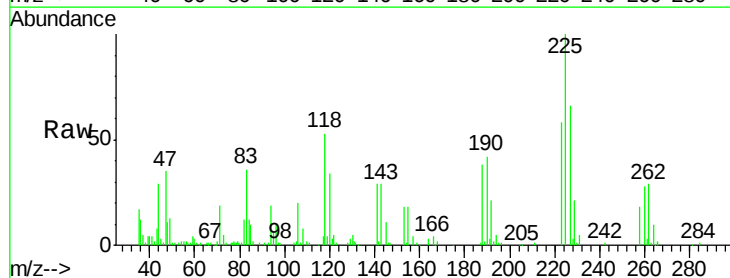
Manual Integrations
 APPROVED

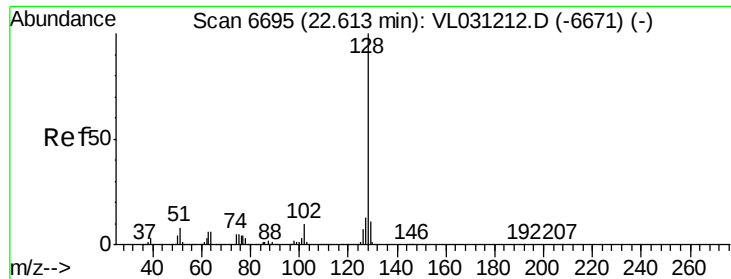
MMDadoda
 12/15/2017 4:06:55 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 1.21 ppbv
 RT: 23.71 min Scan# 7035
 Delta R.T. 0.00 min
 Lab File: VL031214.D
 Acq: 13 Dec 2017 23:45

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.6	50.4	75.6
227	64.6	51.3	76.9





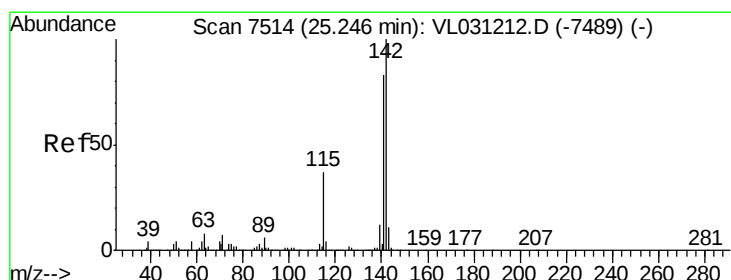
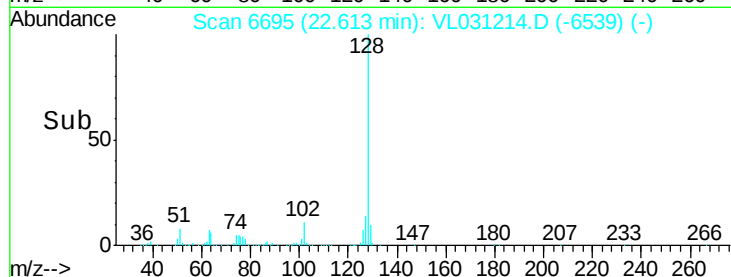
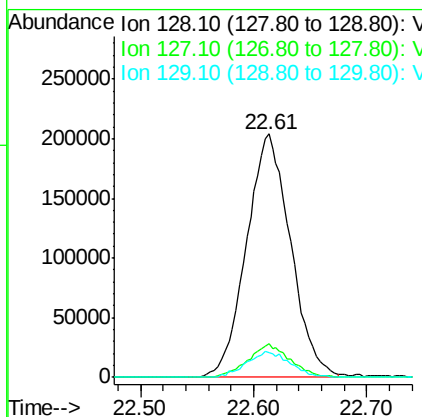
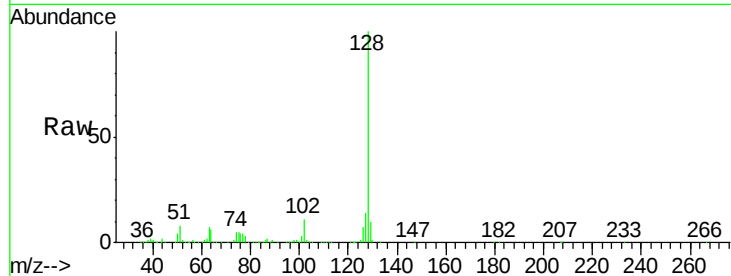
#79
Naphthalene
Concen: 1.21 ppbv
RT: 22.61 min Scan# 6695
Delta R.T. 0.00 min
Lab File: VL031214.D
Acq: 13 Dec 2017 23:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.2	15.2
129	10.0	8.9	13.3

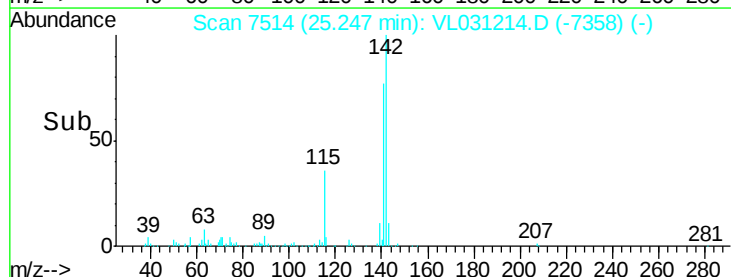
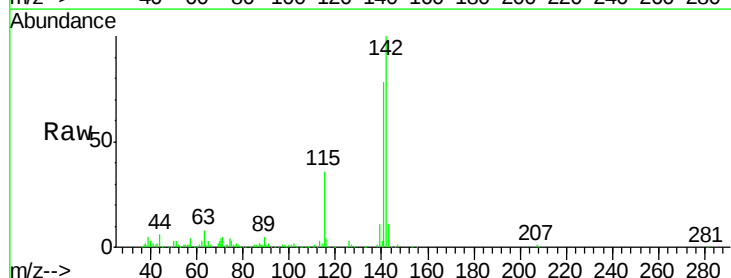
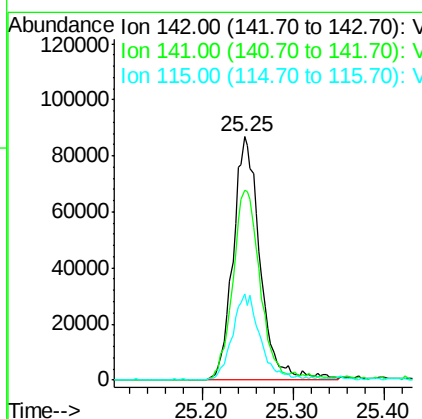
Manual Integrations
APPROVED

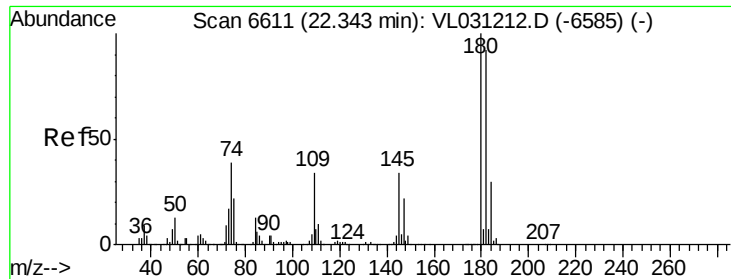
MM Dadoda
12/15/2017 4:06:55 PM



#80
Naphthalene, 2-methyl-
Concen: 1.33 ppbv
RT: 25.25 min Scan# 7514
Delta R.T. 0.00 min
Lab File: VL031214.D
Acq: 13 Dec 2017 23:45

Tgt Ion	Ratio	Lower	Upper
142	100		
141	80.3	66.8	100.2
115	37.0	29.7	44.5





#81
 1,2,4-Trichlorobenzene
 Concen: 1.12 ppbv
 RT: 22.34 min Scan# 6610
 Delta R.T. -0.00 min
 Lab File: VL031214.D
 Acq: 13 Dec 2017 23:45

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
180	100	255582		
182	95.3		75.9	113.9
184	30.3		24.2	36.2

Manual Integrations
 APPROVED

MMDadoda
 12/15/2017 4:06:55 PM

