

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL050318\
 Data File : VL031966.D
 Acq On : 3 May 2018 15:21
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 5/4/2018 5:01:02 PM

Quant Time: May 03 15:51:17 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL050318AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 03 2018
 QLast Update : Thu May 03 12:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.89	49	1350413	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.42	114	2791592m	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	2937570	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.73	95	2228738	9.44	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.16	85	2172294	7.80	ppbv	98
3) Chlorodifluoromethane	3.10	51	1377470	8.77	ppbv	98
4) Chloromethane	3.26	50	818098	10.20	ppbv	95
5) Vinyl Chloride	3.38	62	888633	9.84	ppbv	97
6) Bromomethane	3.61	94	594738	10.02	ppbv	98
7) Chloroethane	3.69	64	367083	10.20	ppbv #	89
8) Dichlorotetrafluoroethane	3.31	85	2134318	9.33	ppbv	98
9) Propene	3.12	41	631140	11.62	ppbv	100
10) Heptane	8.39	43	2170550	12.32	ppbv	99
11) Trichlorofluoromethane	4.11	101	2374350	8.69	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.66	101	1862274	10.49	ppbv	97
13) Ethanol	3.74	45	175862	9.54	ppbv	100
14) Bromoethene	3.89	108	704290	10.53	ppbv	98
15) Acetone	4.00	43	1652178	7.95	ppbv	100
16) 1,3-Butadiene	3.45	39	803313	10.45	ppbv	94
17) tert-Butyl alcohol	4.46	59	631673	7.35	ppbv	98
18) 1,1-Dichloroethene	4.46	96	713918	9.36	ppbv	89
19) Isopropyl Alcohol	4.12	45	1079917	9.30	ppbv #	98
20) Methylene Chloride	4.52	84	745779	9.85	ppbv	94
21) Allyl Chloride	4.59	41	1412327	11.89	ppbv	97
22) trans-1,2-Dichloroethene	5.08	96	917479	11.61	ppbv	97
23) Vinyl Acetate	5.27	43	2797986	13.28	ppbv	99
24) 1,1-Dichloroethane	5.21	63	2446321	11.65	ppbv	99
25) Ethyl Acetate	5.89	43	4259651	13.14	ppbv	100
26) Hexane	5.90	57	2009239	13.29	ppbv	100
27) Carbon Disulfide	4.73	76	2338765	11.92	ppbv	99
28) Methyl tert-Butyl Ether	5.23	73	2355435	12.66	ppbv	100
29) Chloroform	5.97	83	3067130	11.97	ppbv	99
30) Cyclohexane	7.39	84	1530753	14.18	ppbv	98
31) cis-1,2-Dichloroethene	5.76	61	1913117	13.97	ppbv	93
32) 1,1,1-Trichloroethane	6.75	97	3035508	12.17	ppbv	99
34) 2-Butanone	5.45	43	2546525	13.15	ppbv	100
35) Carbon Tetrachloride	7.27	117	3078160	12.70	ppbv	98
36) Benzene	7.14	78	4079062	16.24	ppbv	99
37) 1,2-Dichloroethane	6.55	62	2512378	13.45	ppbv	98
38) Trichloroethene	8.10	130	1277067	12.53	ppbv	96
39) 1,2-Dichloropropane	7.88	63	1178875	12.63	ppbv	98
40) 1,4-Dioxane	8.09	88	498590	13.16	ppbv	100
41) Tetrahydrofuran	6.27	42	1397078	15.59	ppbv	99
42) Bromodichloromethane	8.06	83	2702855	12.09	ppbv	99
43) Methyl Methacrylate	8.28	69	1228641	13.91	ppbv	98

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL050318\
 Data File : VL031966.D
 Acq On : 3 May 2018 15:21
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 5/4/2018 5:01:02 PM

Quant Time: May 03 15:51:17 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL050318AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 03 15:51:17 2018
 QLast Update : Thu May 03 12:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.13	57	5362754	12.40	ppbv	99
45) t-1,3-Dichloropropene	9.56	75	1775005	15.49	ppbv	100
46) cis-1,3-Dichloropropene	8.98	75	2092274	14.28	ppbv	95
47) 1,1,2-Trichloroethane	9.76	97	1394857	12.57	ppbv	97
48) Dibromochloromethane	10.60	129	2356027	13.14	ppbv	99
49) Bromoform	13.36	173	2017423	14.62	ppbv	99
50) 4-Methyl-2-Pentanone	9.01	43	2871305	12.95	ppbv	100
51) 2-Hexanone	10.42	43	2641585	13.63	ppbv	99
52) Tetrachloroethene	11.52	164	1316218	13.45	ppbv	97
53) Toluene	10.10	91	3919724	14.00	ppbv	99
54) 1,2-Dibromoethane	10.91	107	2215656	13.76	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.43	131	1703930	12.33	ppbv	90
57) Chlorobenzene	12.46	112	3182457	12.78	ppbv	98
58) Ethyl Benzene	13.02	91	5801761	14.22	ppbv	99
59) m/p-Xylene	13.30	91	9418970m	26.59	ppbv	
60) o-Xylene	14.00	91	4820936	13.62	ppbv	99
61) Styrene	13.84	104	1186549	17.60	ppbv	99
62) Isopropylbenzene	14.98	105	6174013	13.58	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.99	83	3260614	11.98	ppbv	100
64) n-propylbenzene	15.87	120	1585866	14.34	ppbv	96
65) tert-Butylbenzene	17.06	119	5442709	13.91	ppbv	97
66) Benzyl Chloride	17.31	91	723992m	20.54	ppbv	
67) sec-Butylbenzene	17.61	105	7834159	13.90	ppbv	99
69) p-Isopropyltoluene	17.97	119	6475974	14.83	ppbv	99
70) n-Butylbenzene	18.86	91	6694892	14.72	ppbv	99
71) 2-Chlorotoluene	15.77	91	4769816	14.51	ppbv	98
72) 4-Ethyltoluene	16.15	105	5262363	14.54	ppbv	100
73) 1,3,5-Trimethylbenzene	16.31	105	4746377	14.33	ppbv	100
74) 1,2,4-Trimethylbenzene	17.08	105	5033368	13.61	ppbv	97
75) 1,3-Dichlorobenzene	17.32	146	3198986	14.11	ppbv	100
76) 1,4-Dichlorobenzene	17.47	146	3210799	14.60	ppbv	99
77) 1,2-Dichlorobenzene	18.14	146	3196091	14.31	ppbv	99
78) Hexachloro-1,3-Butadiene	23.68	225	1874780	21.86	ppbv	99
79) Naphthalene	22.59	128	4433775	21.30	ppbv	98
80) Naphthalene, 2-methyl-	25.23	142	1431765	35.24	ppbv	98
81) 1,2,4-Trichlorobenzene	22.31	180	2195773	19.02	ppbv	100

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

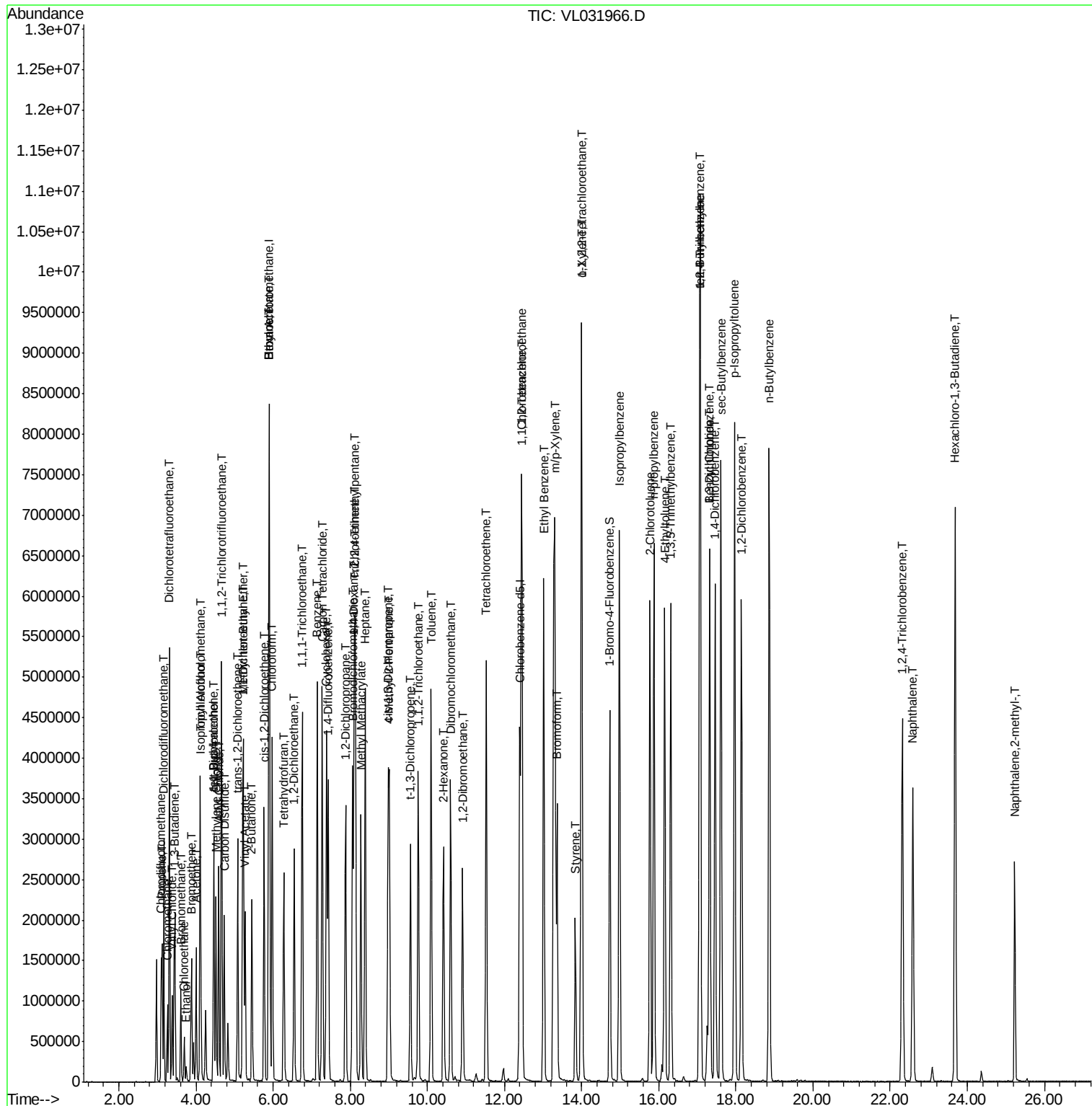
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL050318\
Data File : VL031966.D
Acq On : 3 May 2018 15:21
Operator : SY/AP
Sample : VSTDICC015
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

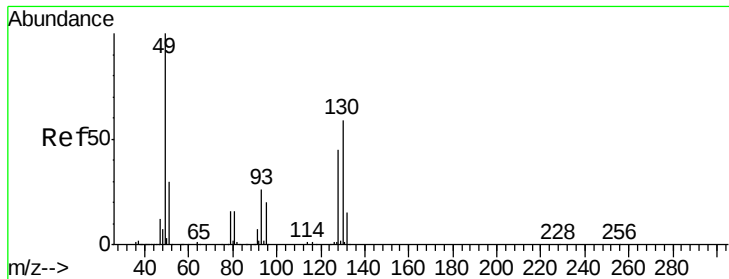
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

MMDadoda
5/4/2018 5:01:02 PM

Quant Time: May 03 15:51:17 2018
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL050318AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu May
QLast Update : Thu May 03 12:00:23 2018
Response via : Initial Calibration





#1

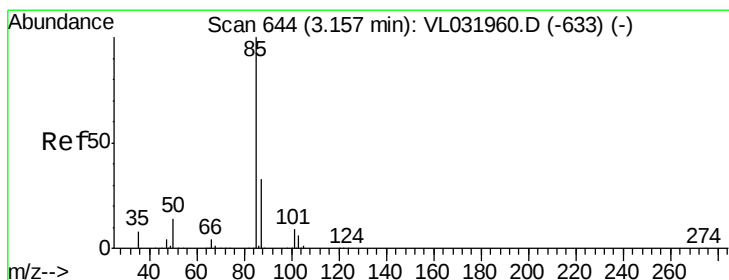
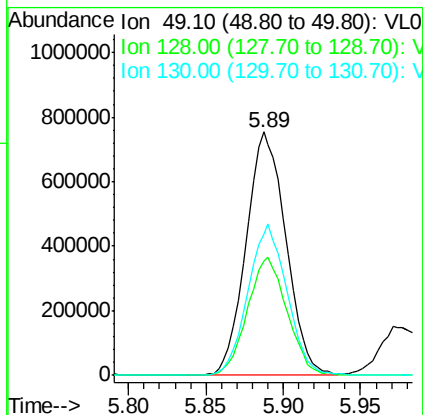
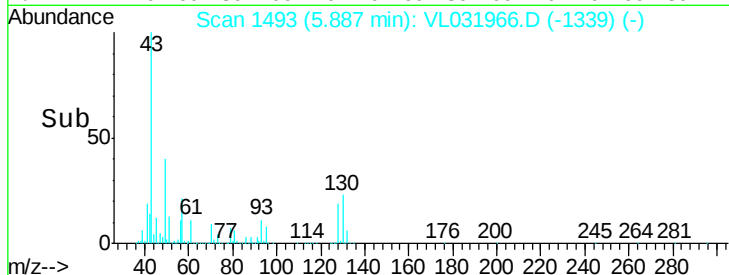
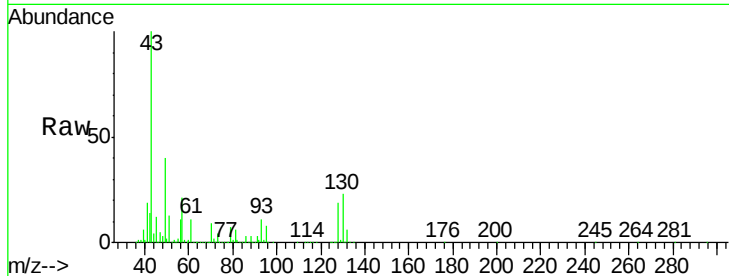
Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.89 min Scan# 1493
 Delta R.T. -0.00 min
 Lab File: VL031966.D
 Acq: 3 May 2018 15:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
49	100		
128	48.5	23.9	71.7
130	61.4	30.9	92.7

Manual Integrations
 APPROVED

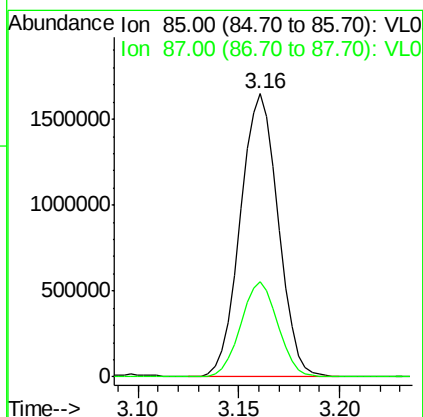
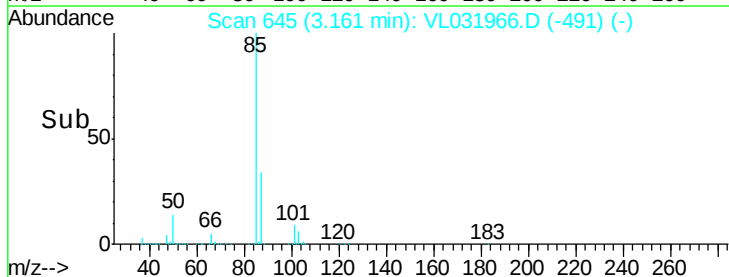
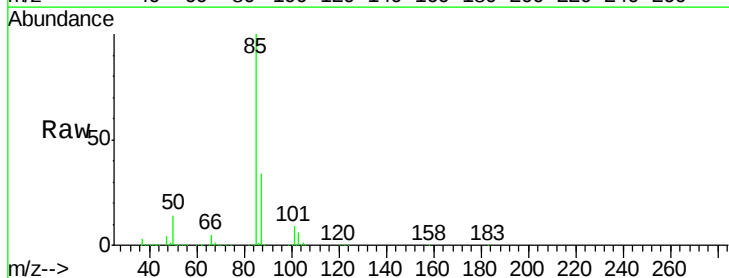
MMDadoda
 5/4/2018 5:01:02 PM

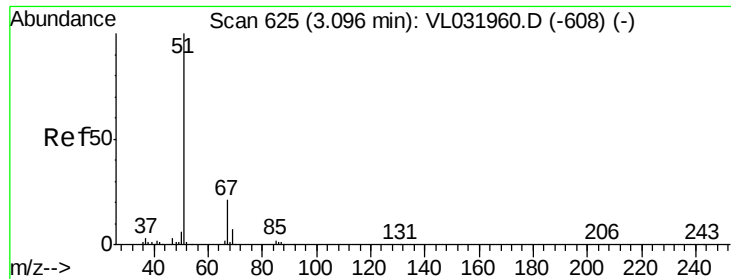


#2

Dichlorodifluoromethane
 Concen: 7.80 ppbv
 RT: 3.16 min Scan# 645
 Delta R.T. -0.00 min
 Lab File: VL031966.D
 Acq: 3 May 2018 15:21

Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.7	25.9	38.9





#3

Chlorodifluoromethane

Concen: 8.77 ppbv

RT: 3.10 min Scan# 625

Delta R.T. -0.00 min

Lab File: VL031966.D

Acq: 3 May 2018 15:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 51 Resp: 1377470

Ion Ratio Lower Upper

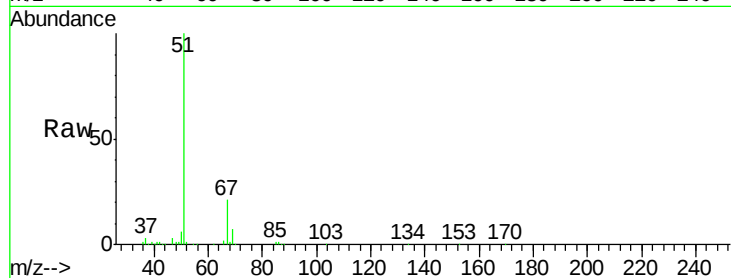
51 100

67 21.0 17.5 26.3

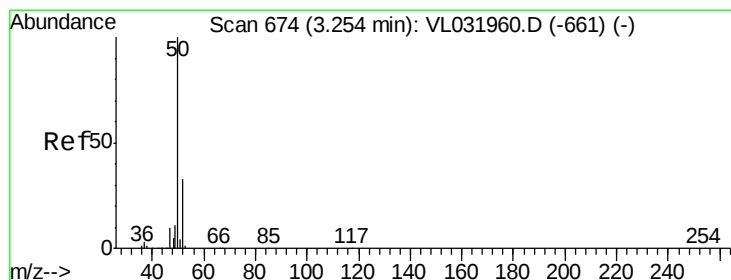
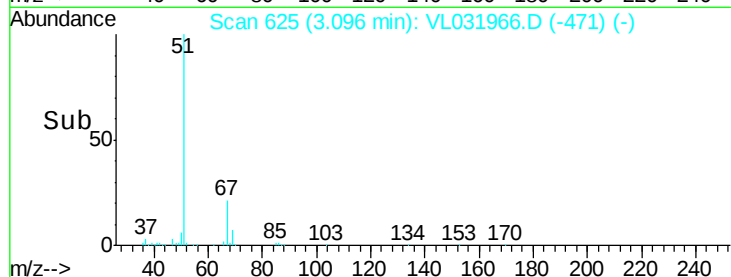
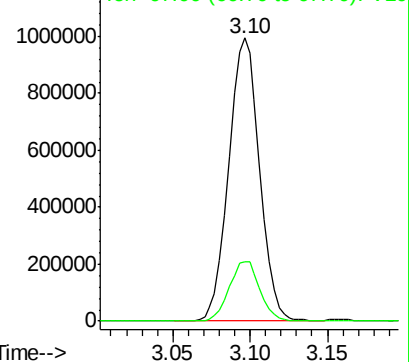
Manual Integrations
APPROVED

MMDadoda

5/4/2018 5:01:02 PM



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



#4

Chloromethane

Concen: 10.20 ppbv

RT: 3.26 min Scan# 675

Delta R.T. -0.00 min

Lab File: VL031966.D

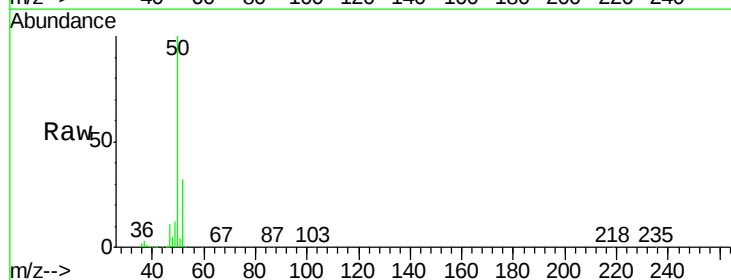
Acq: 3 May 2018 15:21

Tgt Ion: 50 Resp: 818098

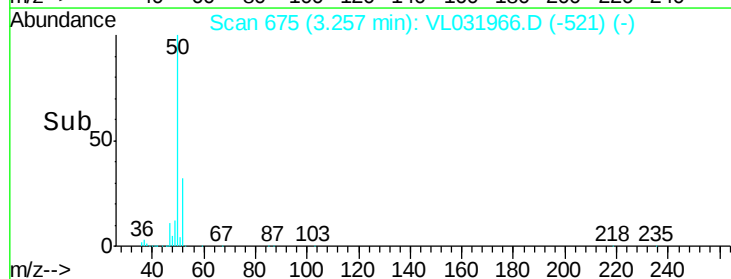
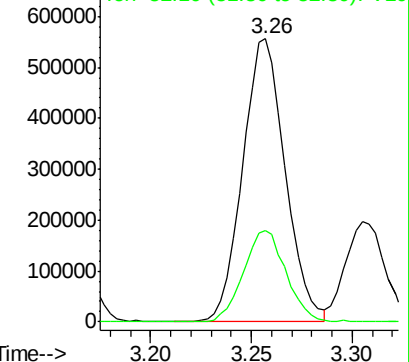
Ion Ratio Lower Upper

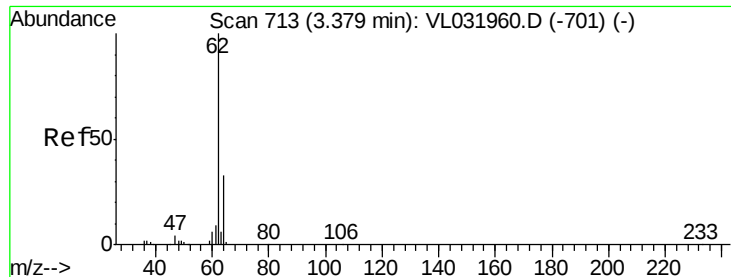
50 100

52 32.3 28.1 42.1



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





#5

Vinyl Chloride

Concen: 9.84 ppbv

RT: 3.38 min Scan# 713

Delta R.T. -0.00 min

Lab File: VL031966.D

Acq: 3 May 2018 15:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 888633

Ion Ratio Lower Upper

62 100

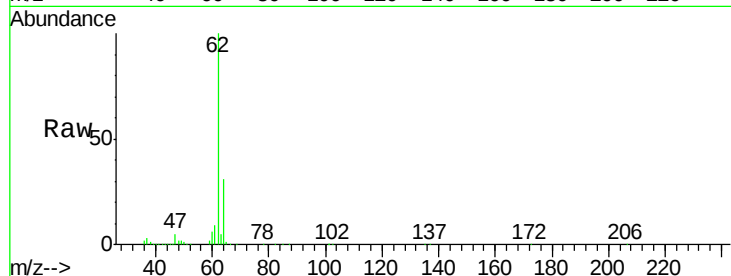
64 30.5 25.9 38.9

Manual Integrations

APPROVED

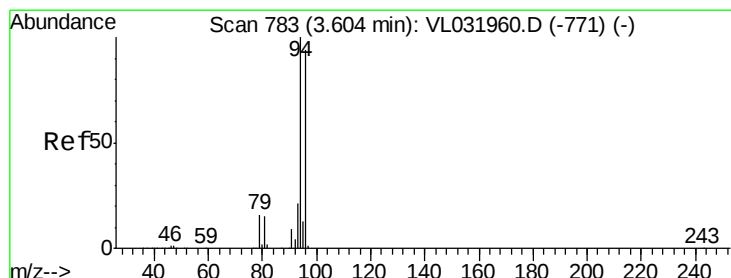
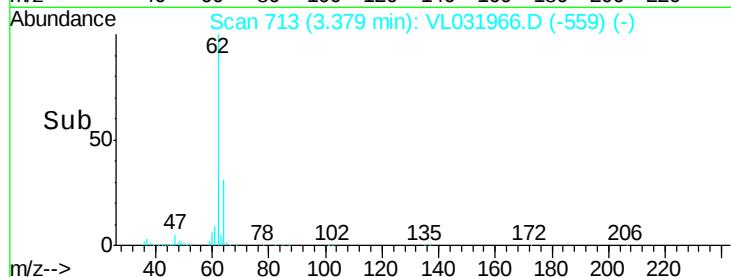
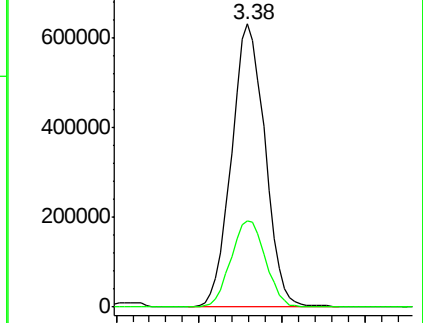
MMDadoda

5/4/2018 5:01:02 PM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 10.02 ppbv

RT: 3.61 min Scan# 784

Delta R.T. -0.00 min

Lab File: VL031966.D

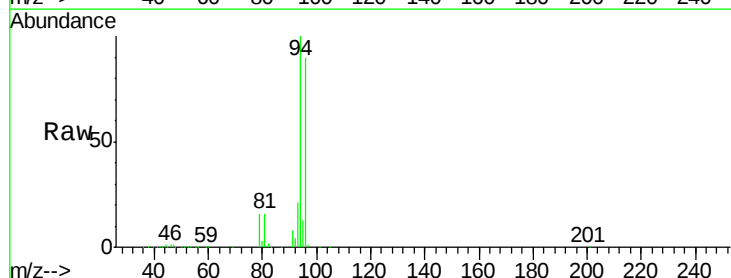
Acq: 3 May 2018 15:21

Tgt Ion: 94 Resp: 594738

Ion Ratio Lower Upper

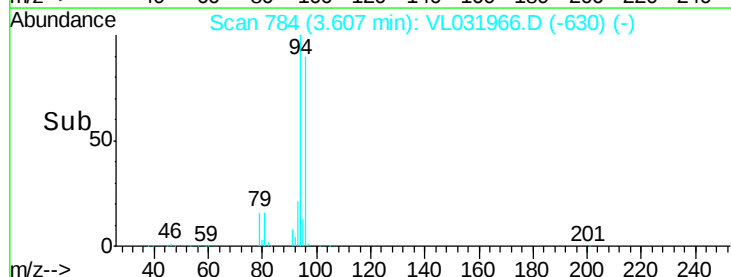
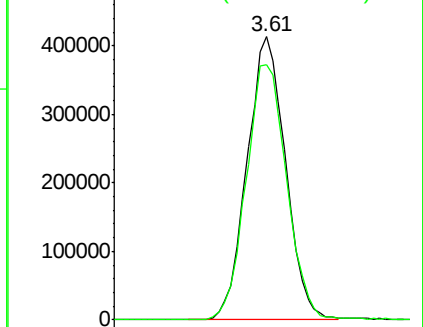
94 100

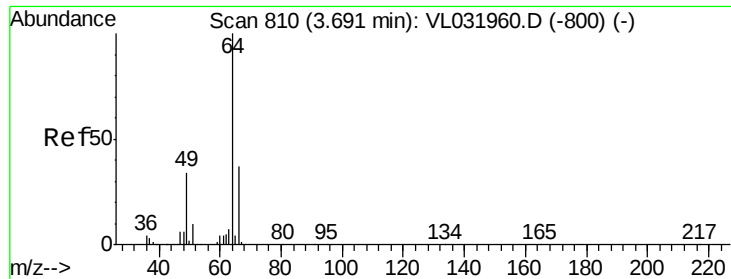
96 90.0 73.8 110.6



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 10.20 ppbv

RT: 3.69 min Scan# 811

Delta R.T. -0.00 min

Lab File: VL031966.D

Acq: 3 May 2018 15:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 367083

Ion Ratio Lower Upper

64 100

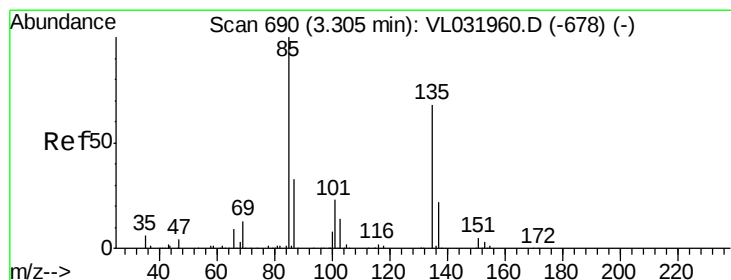
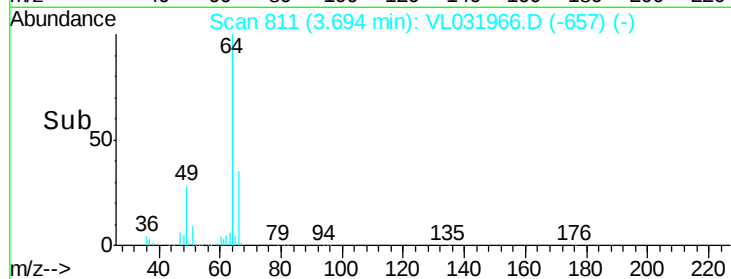
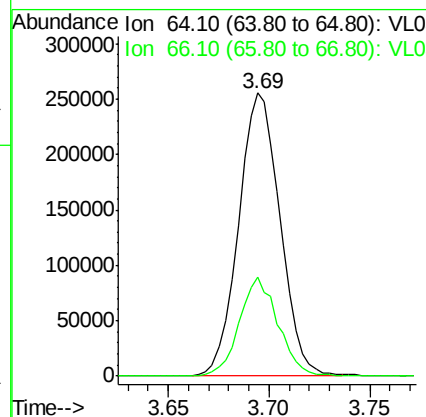
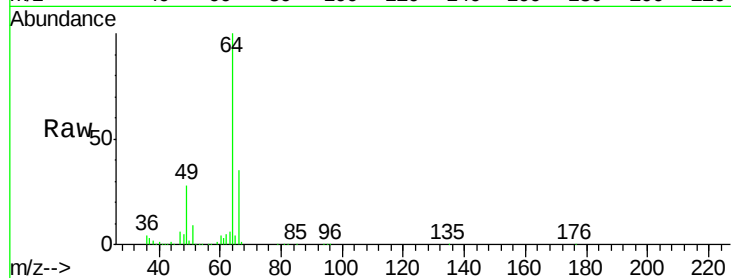
66 35.1 23.4 35.0#

Manual Integrations

APPROVED

MMDadoda

5/4/2018 5:01:02 PM



#8

Dichlorotetrafluoroethane

Concen: 9.33 ppbv

RT: 3.31 min Scan# 691

Delta R.T. -0.00 min

Lab File: VL031966.D

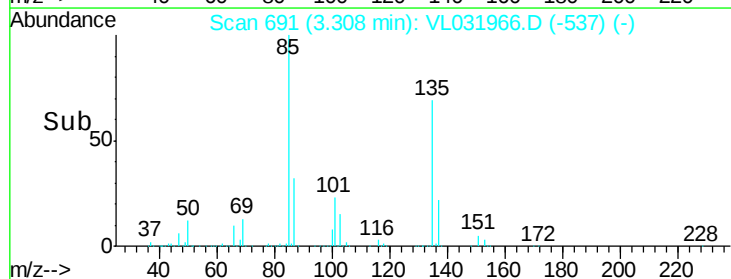
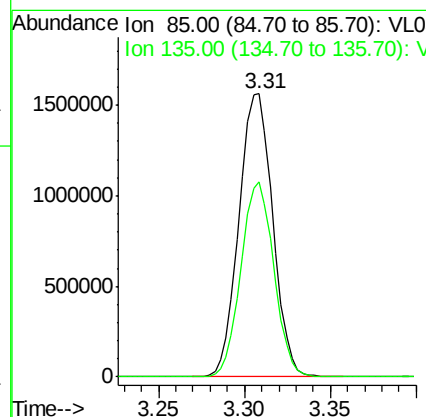
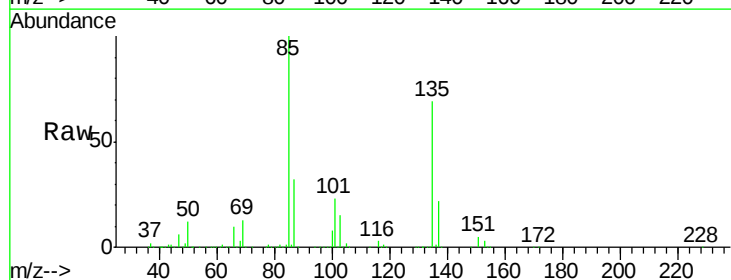
Acq: 3 May 2018 15:21

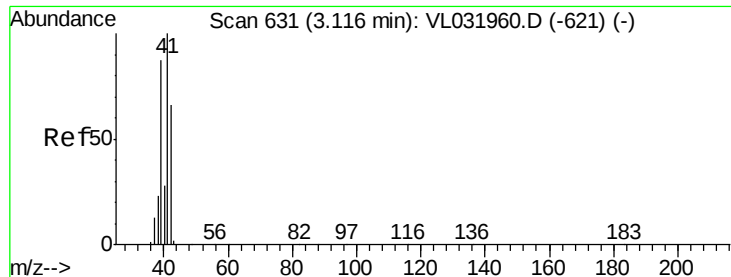
Tgt Ion: 85 Resp: 2134318

Ion Ratio Lower Upper

85 100

135 67.3 52.7 79.1





#9

Propene

Concen: 11.62 ppbv

RT: 3.12 min Scan# 632

Delta R.T. -0.00 min

Lab File: VL031966.D

Acq: 3 May 2018 15:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 631140

Ion Ratio Lower Upper

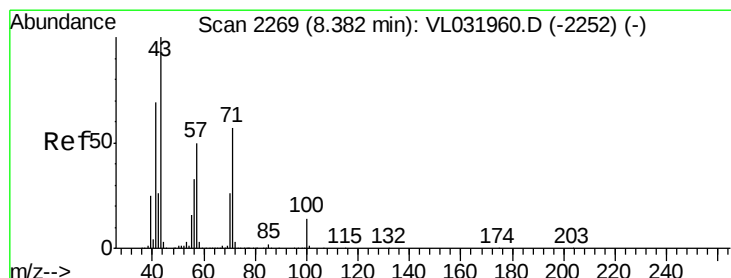
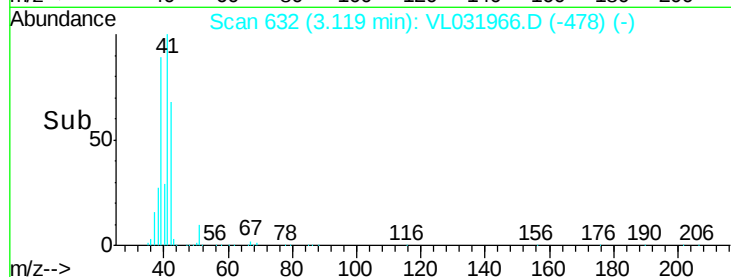
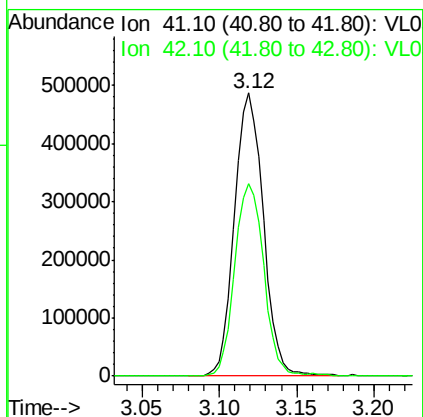
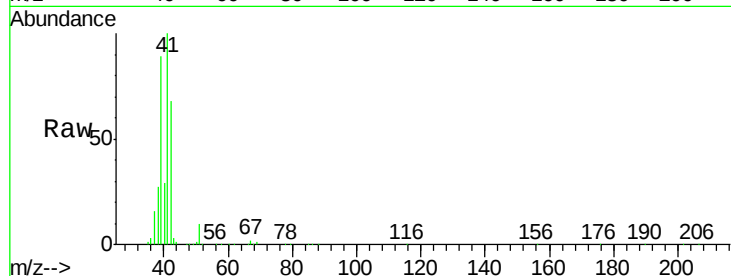
41 100

42 68.9 55.0 82.4

Manual Integrations
APPROVED

MMDadoda

5/4/2018 5:01:02 PM



#10

Heptane

Concen: 12.32 ppbv

RT: 8.39 min Scan# 2271

Delta R.T. 0.00 min

Lab File: VL031966.D

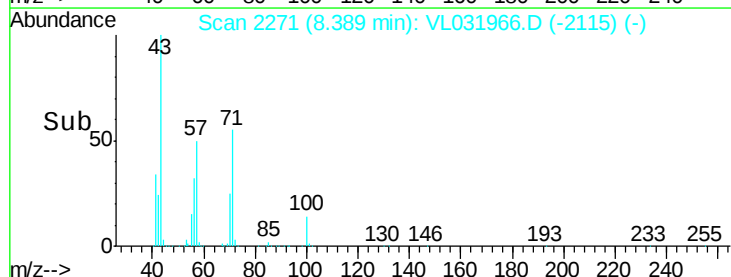
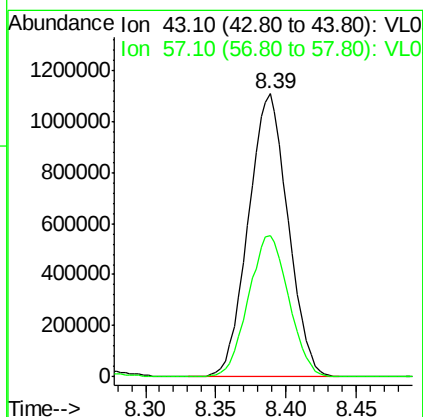
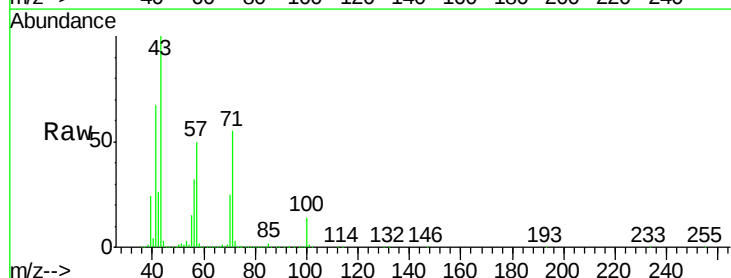
Acq: 3 May 2018 15:21

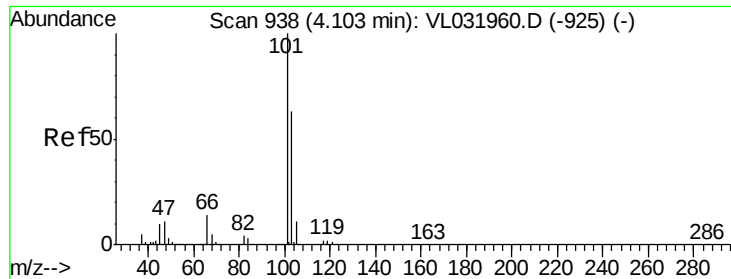
Tgt Ion: 43 Resp: 2170550

Ion Ratio Lower Upper

43 100

57 51.1 41.5 62.3





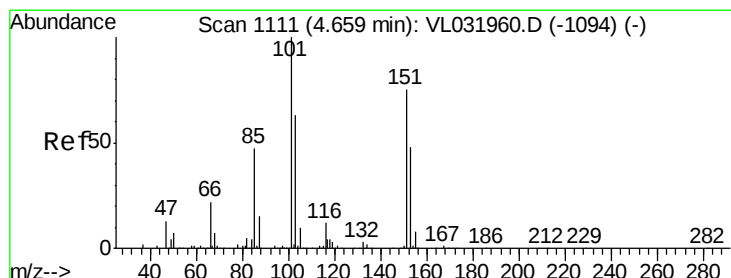
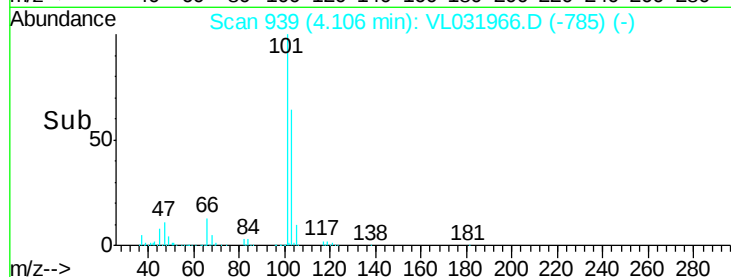
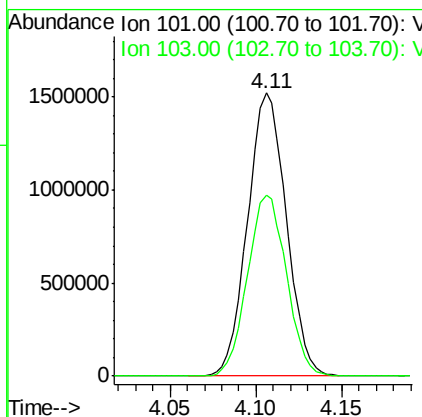
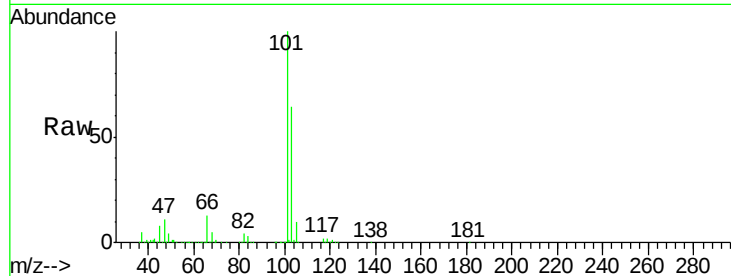
#11
 Trichlorofluoromethane
 Concen: 8.69 ppbv
 RT: 4.11 min Scan# 939
 Delta R.T. -0.00 min
 Lab File: VL031966.D
 Acq: 3 May 2018 15:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:101 Resp: 2374350
 Ion Ratio Lower Upper
 101 100
 103 63.9 51.8 77.8

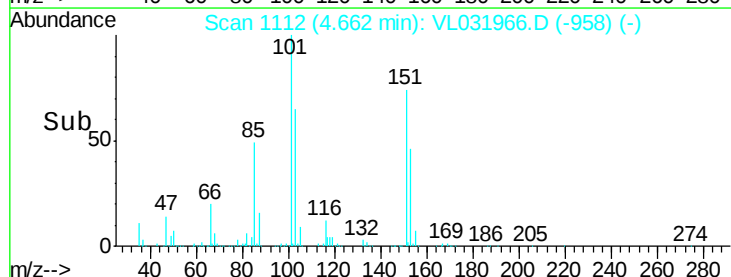
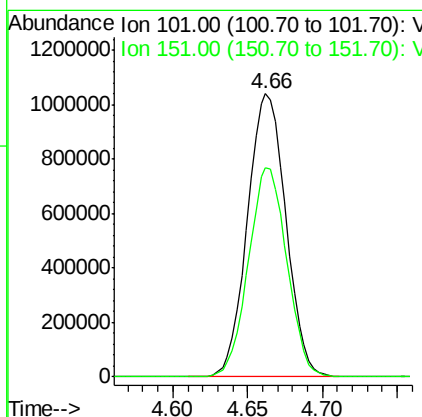
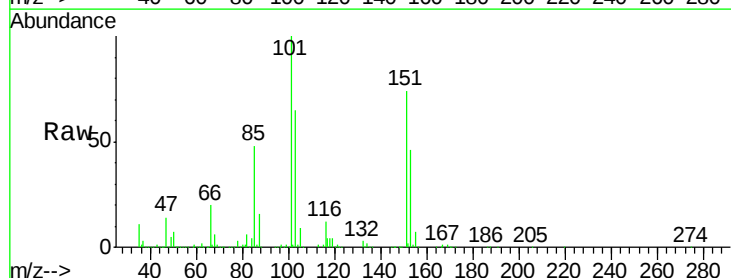
Manual Integrations
 APPROVED

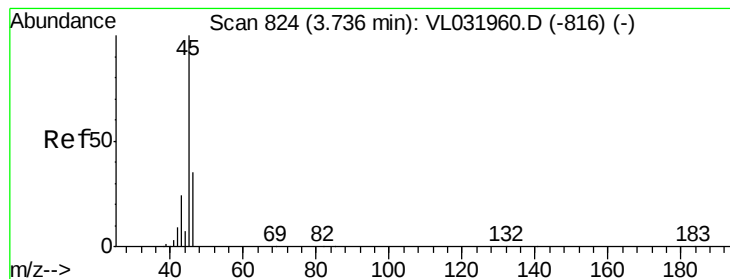
MMDadoda
 5/4/2018 5:01:02 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 10.49 ppbv
 RT: 4.66 min Scan# 1112
 Delta R.T. -0.00 min
 Lab File: VL031966.D
 Acq: 3 May 2018 15:21

Tgt Ion:101 Resp: 1862274
 Ion Ratio Lower Upper
 101 100
 151 73.9 57.0 85.6





#13

Ethanol

Concen: 9.54 ppbv

RT: 3.74 min Scan# 826

Delta R.T. -0.01 min

Lab File: VL031966.D

Acq: 3 May 2018 15:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 45 Resp: 175862

Ion Ratio Lower Upper

45 100

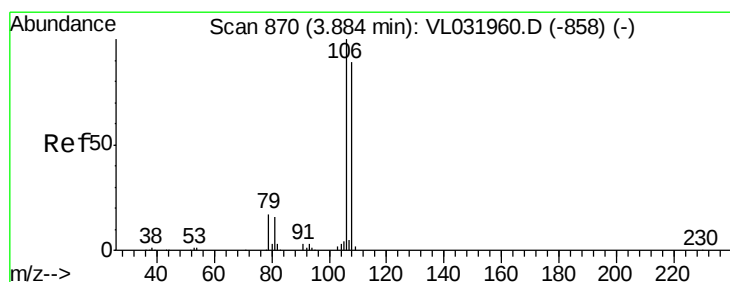
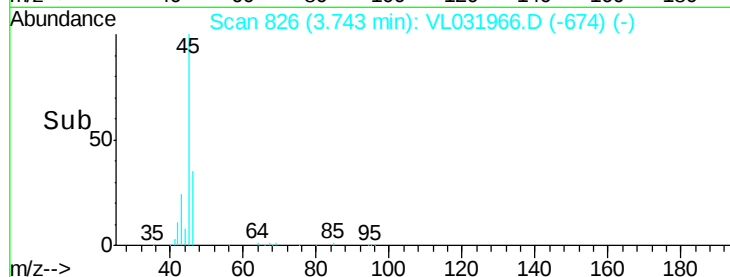
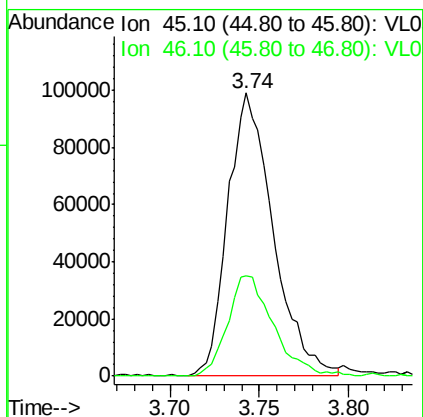
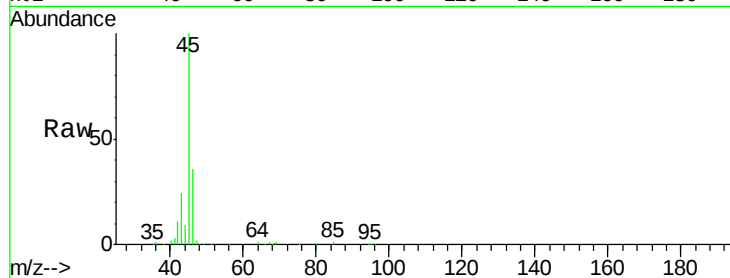
46 36.3 14.6 58.6

Manual Integrations

APPROVED

MMDadoda

5/4/2018 5:01:02 PM



#14

Bromoethene

Concen: 10.53 ppbv

RT: 3.89 min Scan# 871

Delta R.T. -0.00 min

Lab File: VL031966.D

Acq: 3 May 2018 15:21

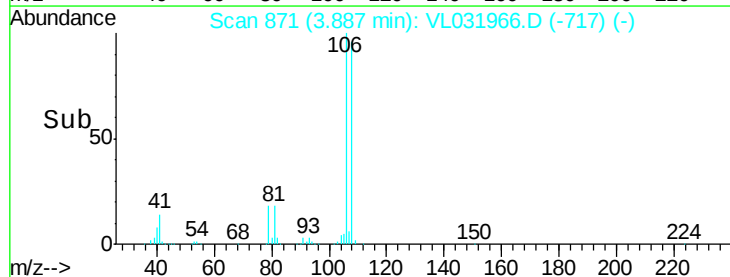
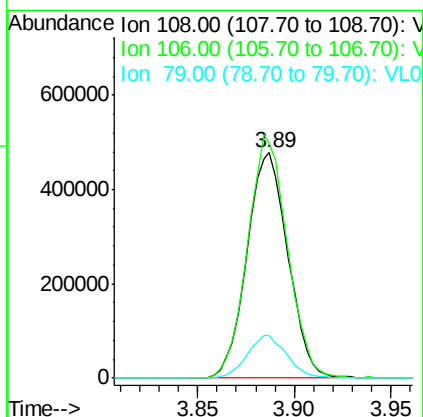
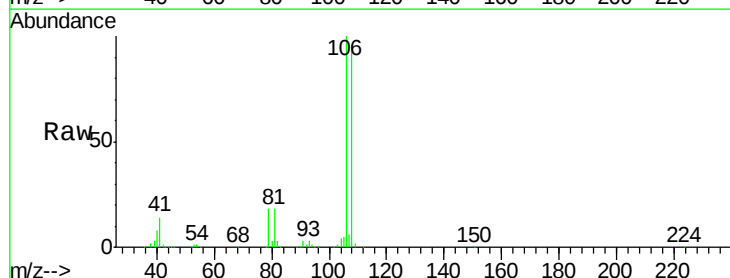
Tgt Ion: 108 Resp: 704290

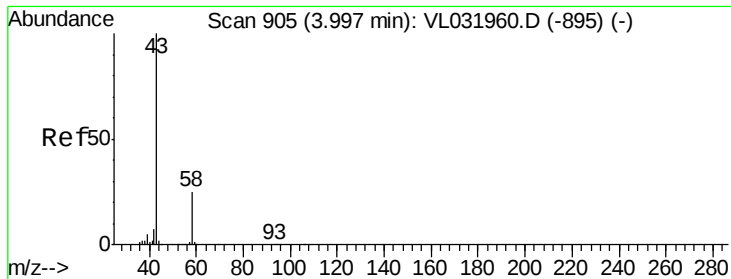
Ion Ratio Lower Upper

108 100

106 105.6 86.6 130.0

79 18.7 15.5 23.3





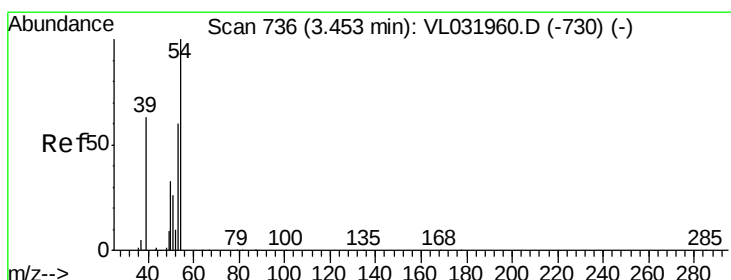
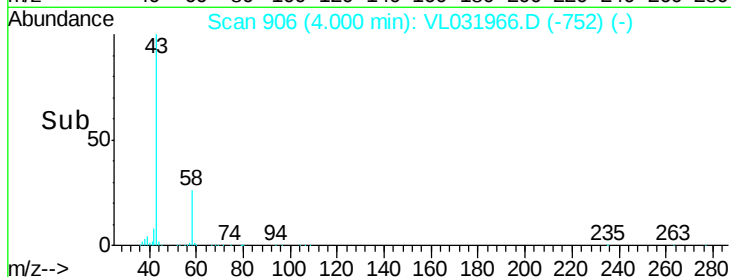
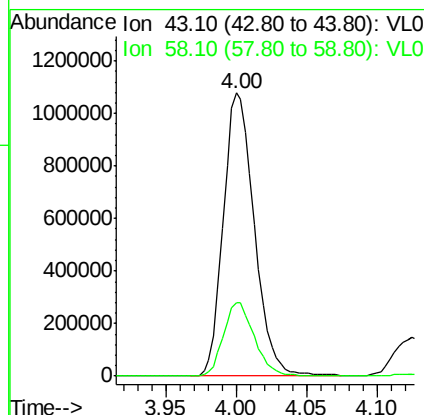
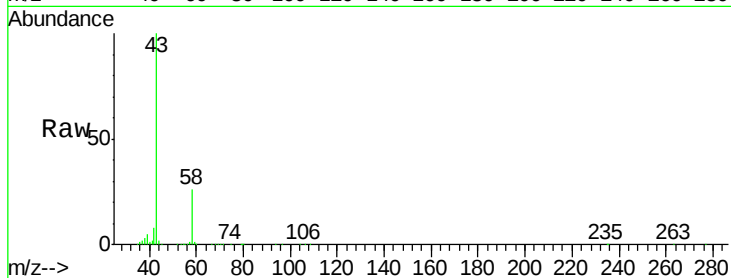
#15
Acetone
Concen: 7.95 ppbv
RT: 4.00 min Scan# 906
Delta R.T. -0.00 min
Lab File: VL031966.D
Acq: 3 May 2018 15:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 43 Resp: 1652178
Ion Ratio Lower Upper
43 100
58 26.1 20.9 31.3

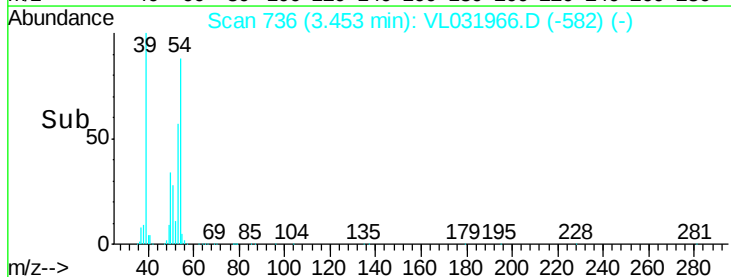
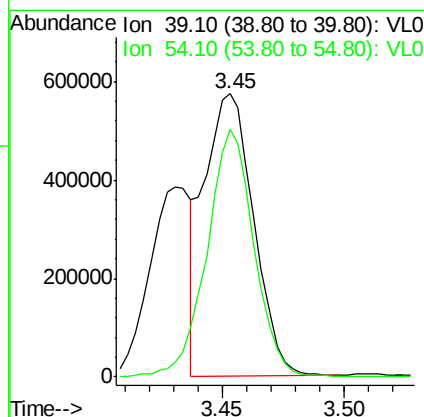
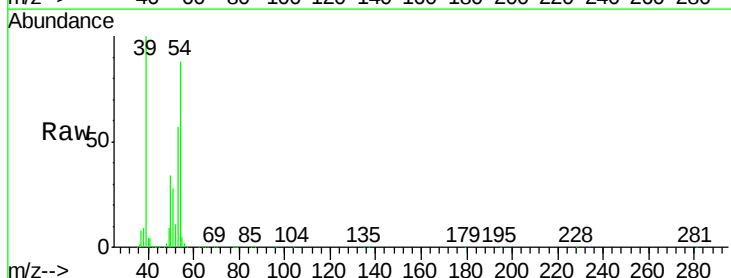
Manual Integrations
APPROVED

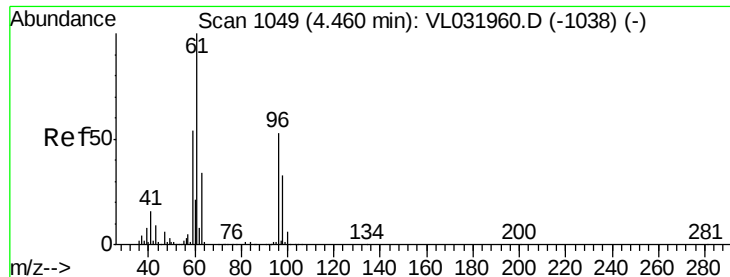
MMDadoda
5/4/2018 5:01:02 PM



#16
1,3-Butadiene
Concen: 10.45 ppbv
RT: 3.45 min Scan# 736
Delta R.T. -0.00 min
Lab File: VL031966.D
Acq: 3 May 2018 15:21

Tgt Ion: 39 Resp: 803313
Ion Ratio Lower Upper
39 100
54 84.4 63.3 94.9





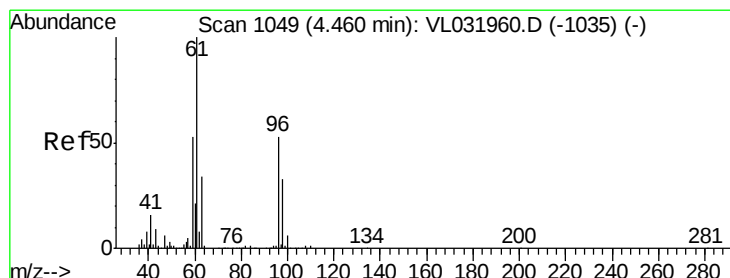
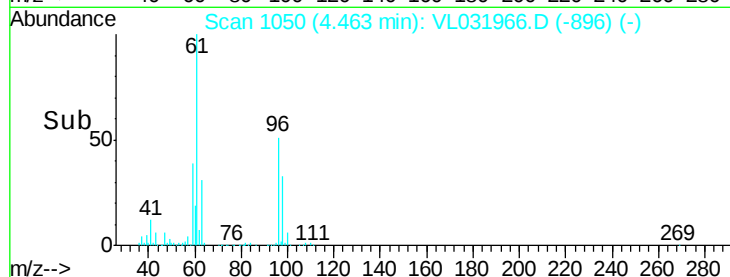
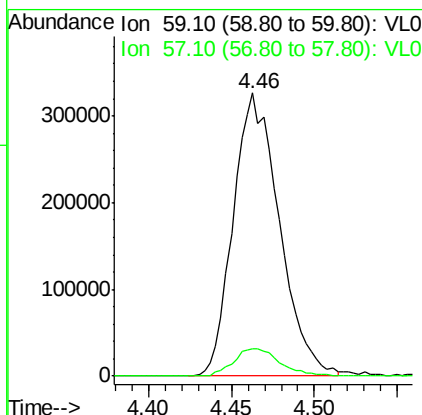
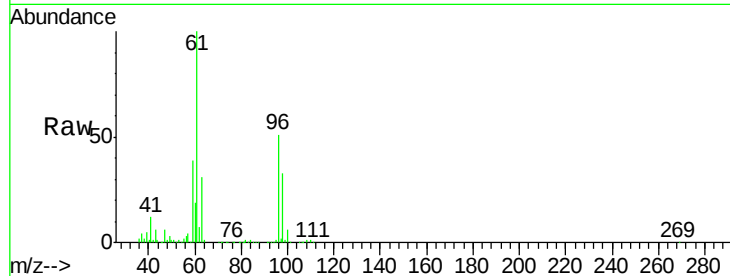
#17
 tert-Butyl alcohol
 Concen: 7.35 ppbv
 RT: 4.46 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VL031966.D
 Acq: 3 May 2018 15:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 59 Resp: 631673
 Ion Ratio Lower Upper
 59 100
 57 10.0 8.5 12.7

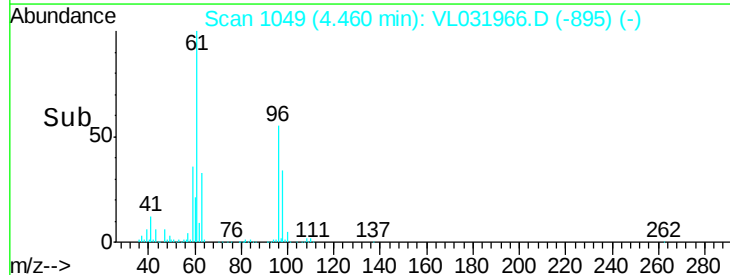
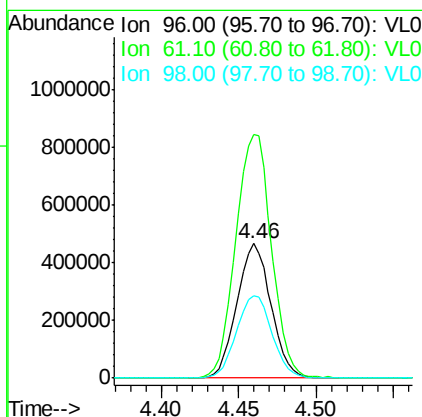
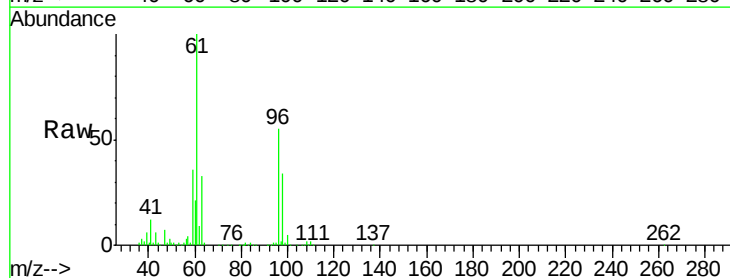
Manual Integrations
 APPROVED

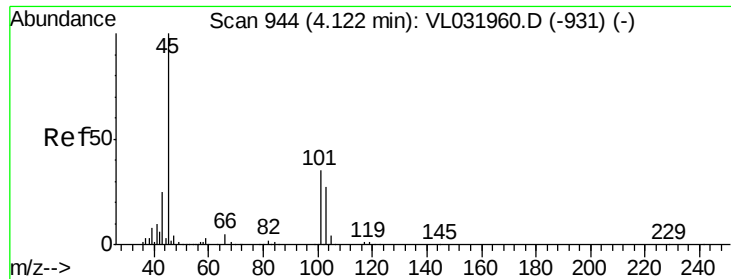
MMDadoda
 5/4/2018 5:01:02 PM



#18
 1,1-Dichloroethene
 Concen: 9.36 ppbv
 RT: 4.46 min Scan# 1049
 Delta R.T. -0.00 min
 Lab File: VL031966.D
 Acq: 3 May 2018 15:21

Tgt Ion: 96 Resp: 713918
 Ion Ratio Lower Upper
 96 100
 61 181.1 161.0 241.6
 98 61.5 52.7 79.1





#19

Isopropyl Alcohol

Concen: 9.30 ppbv

RT: 4.12 min Scan# 944

Delta R.T. -0.01 min

Lab File: VL031966.D

Acq: 3 May 2018 15:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 45 Resp: 1079917

Ion Ratio Lower Upper

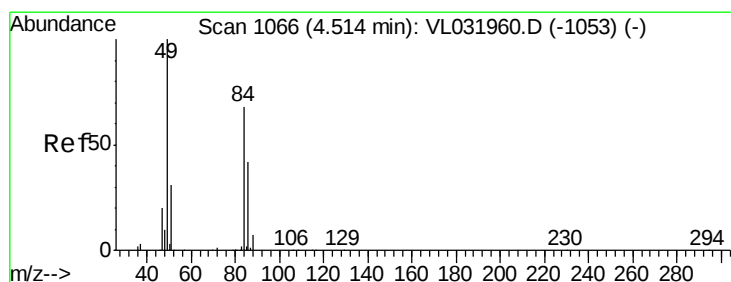
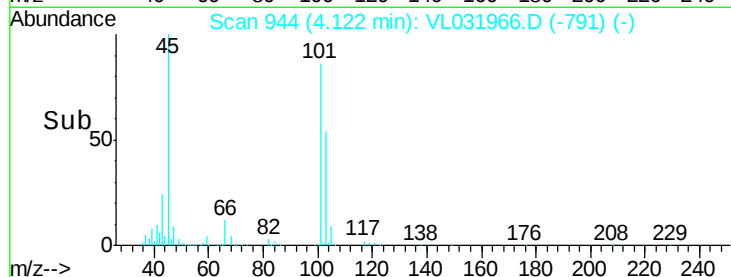
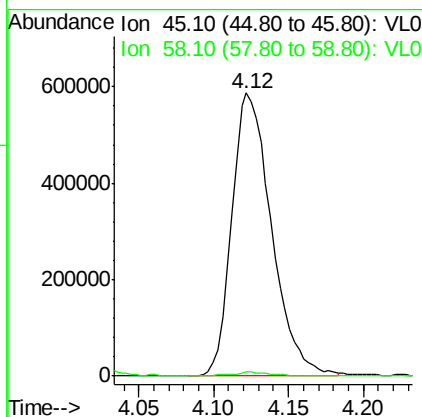
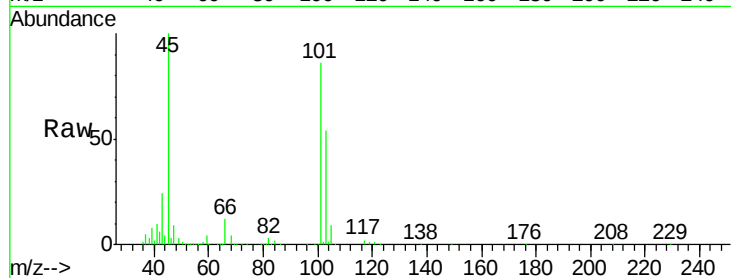
45 100

58 1.6 1.7 2.5#

Manual Integrations
APPROVED

MMDadoda

5/4/2018 5:01:02 PM



#20

Methylene Chloride

Concen: 9.85 ppbv

RT: 4.52 min Scan# 1067

Delta R.T. -0.00 min

Lab File: VL031966.D

Acq: 3 May 2018 15:21

Tgt Ion: 84 Resp: 745779

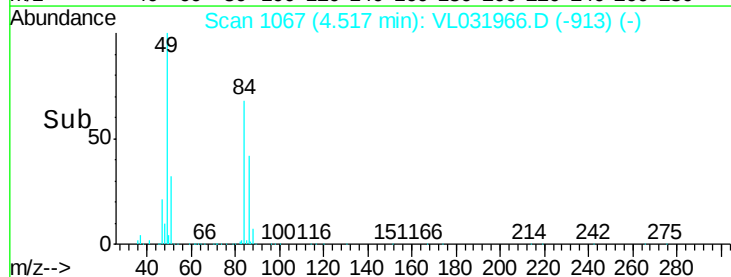
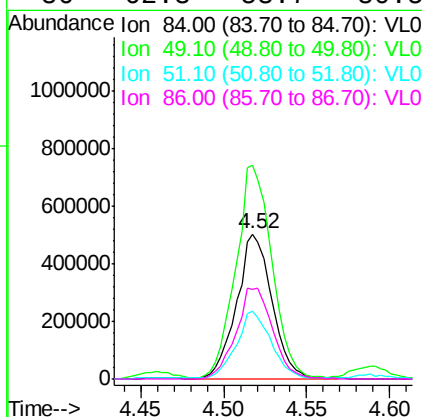
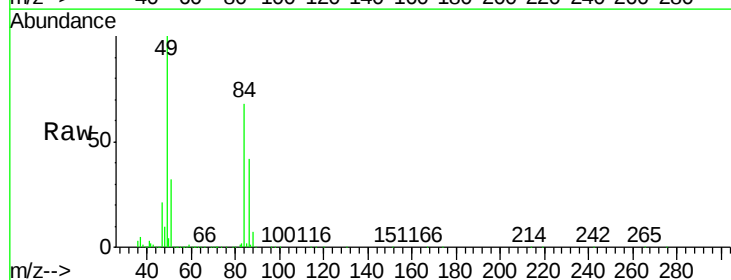
Ion Ratio Lower Upper

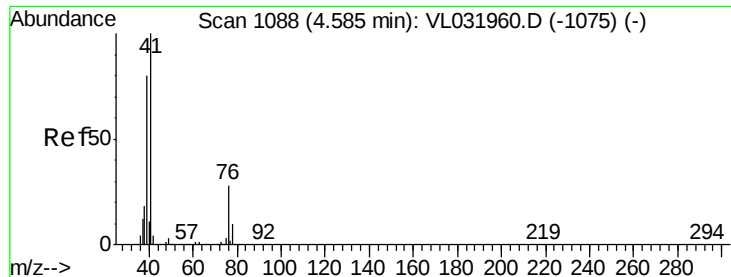
84 100

49 146.4 125.6 188.4

51 46.1 36.4 54.6

86 62.3 53.7 80.5





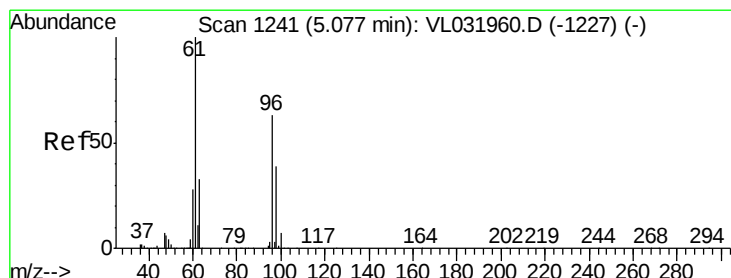
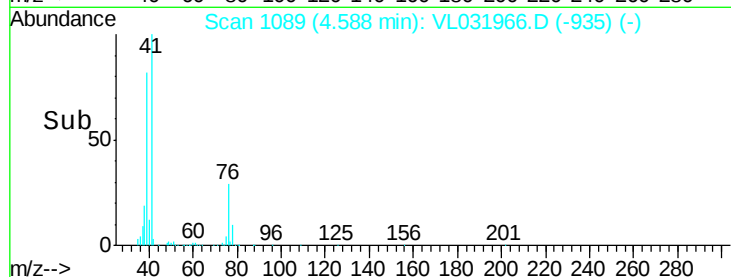
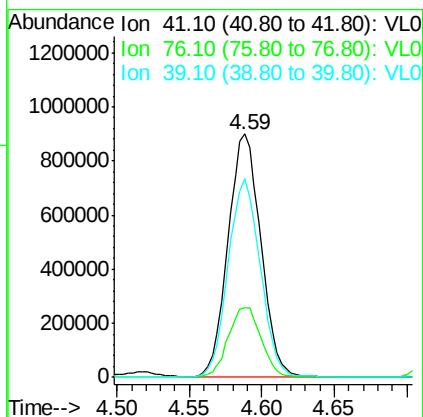
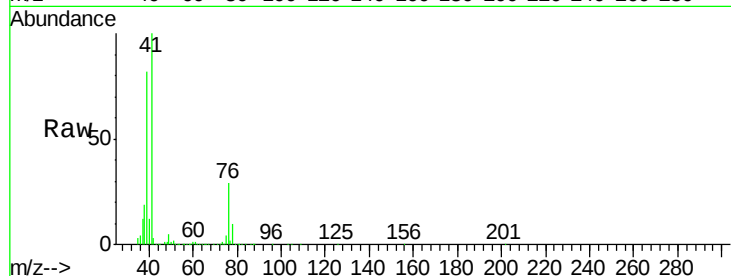
#21
Allvl Chloride
Concen: 11.89 ppbv
RT: 4.59 min Scan# 1089
Delta R.T. -0.00 min
Lab File: VL031966.D
Acq: 3 May 2018 15:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
41	100		
76	29.1	23.4	35.2
39	80.4	67.6	101.4

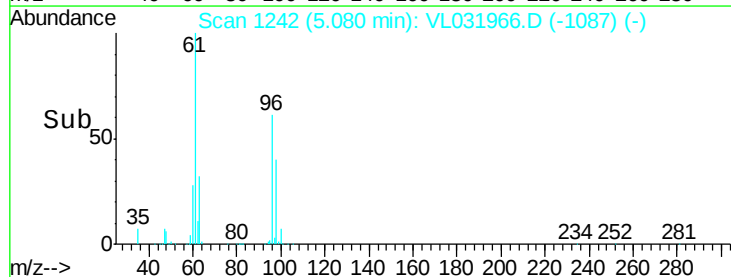
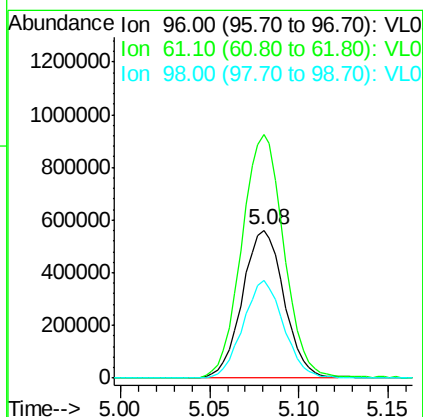
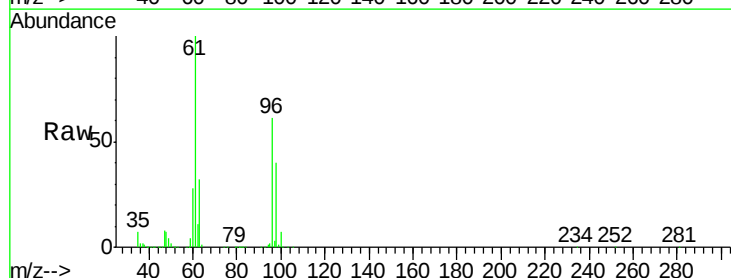
Manual Integrations
APPROVED

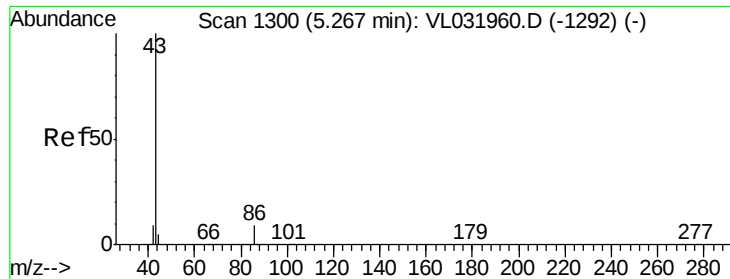
MMDadoda
5/4/2018 5:01:02 PM



#22
trans-1,2-Dichloroethene
Concen: 11.61 ppbv
RT: 5.08 min Scan# 1242
Delta R.T. -0.00 min
Lab File: VL031966.D
Acq: 3 May 2018 15:21

Tgt Ion	Ratio	Lower	Upper
96	100		
61	164.5	131.1	196.7
98	65.9	47.6	71.4





#23

Vinyl Acetate

Concen: 13.28 ppbv

RT: 5.27 min Scan# 1302

Delta R.T. -0.00 min

Lab File: VL031966.D

Acq: 3 May 2018 15:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 2797986

Ion Ratio Lower Upper

43 100

86 7.4 5.8 8.8

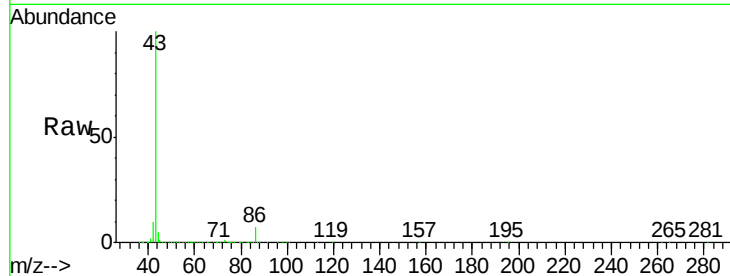
42 9.8 8.5 12.7

44 4.9 4.2 6.4

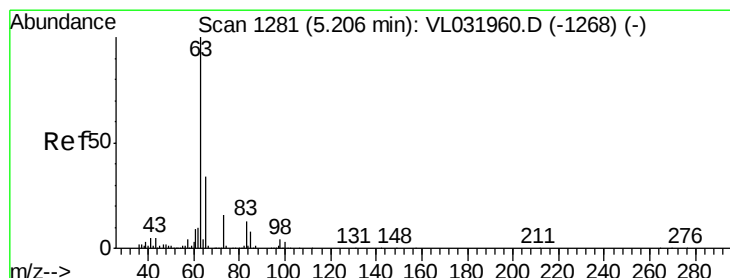
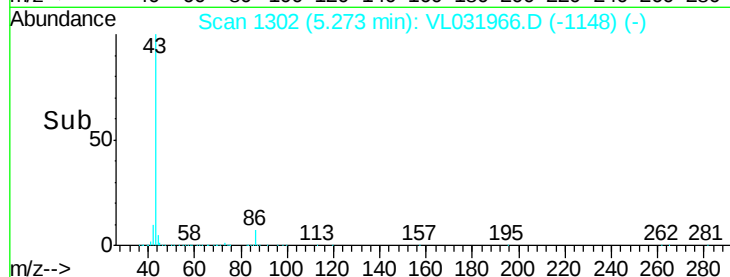
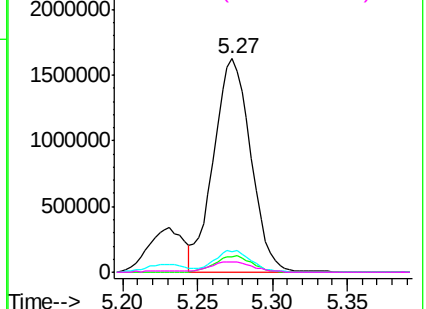
Manual Integrations
APPROVED

MMDadoda

5/4/2018 5:01:02 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0
2500000
Ion 86.10 (85.80 to 86.80): VL0
2000000
Ion 42.10 (41.80 to 42.80): VL0
1500000
Ion 44.10 (43.80 to 44.80): VL0
1000000
500000
0



#24

1,1-Dichloroethane

Concen: 11.65 ppbv

RT: 5.21 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VL031966.D

Acq: 3 May 2018 15:21

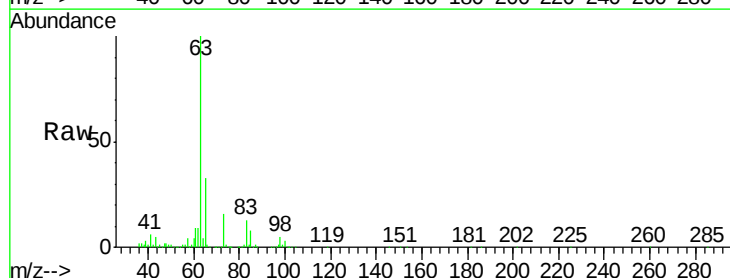
Tgt Ion: 63 Resp: 2446321

Ion Ratio Lower Upper

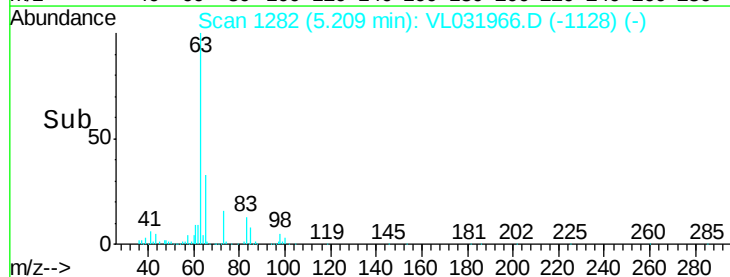
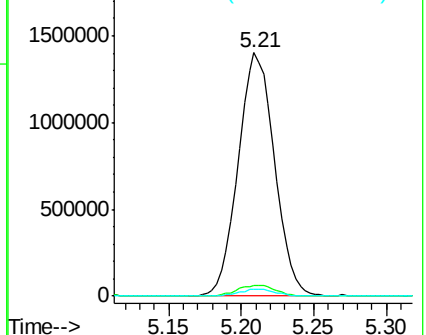
63 100

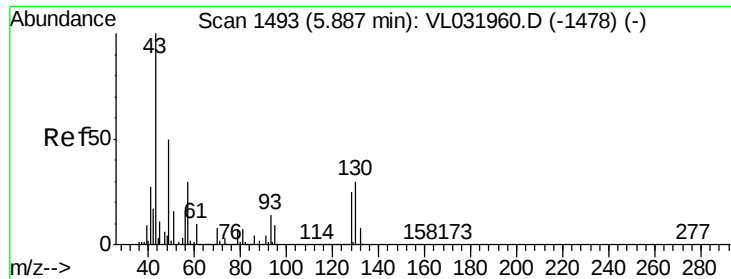
98 4.5 2.4 7.2

100 2.8 1.5 4.4



Abundance Ion 63.10 (62.80 to 63.80): VL0
1500000
Ion 98.00 (97.70 to 98.70): VL0
1000000
Ion 100.00 (99.70 to 100.70): VL0
500000
0





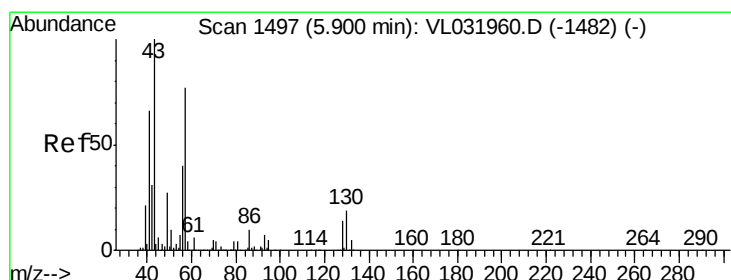
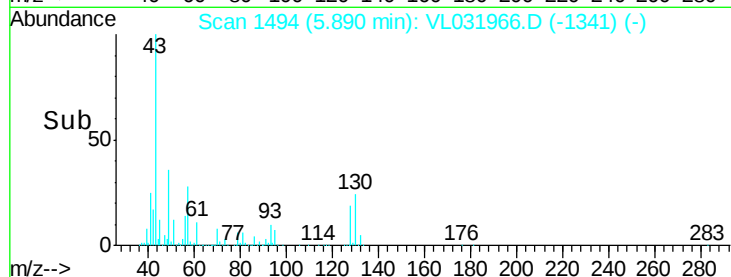
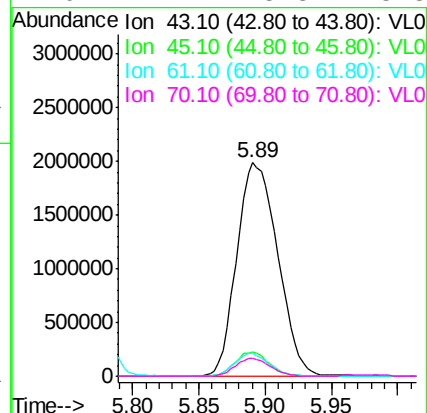
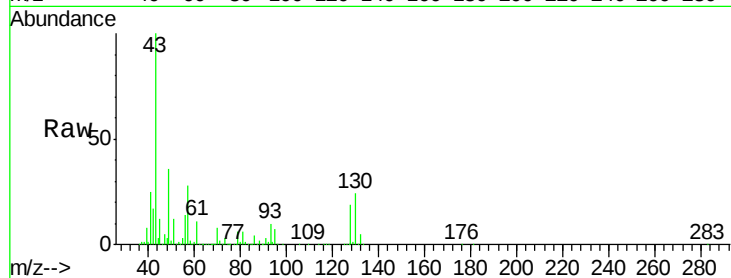
#25
Ethyl Acetate
Concen: 13.14 ppbv
RT: 5.89 min Scan# 1494
Delta R.T. -0.01 min
Lab File: VL031966.D
Acq: 3 May 2018 15:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	9.7	7.8	11.8	
61	9.0	7.2	10.8	
70	7.2	5.8	8.8	

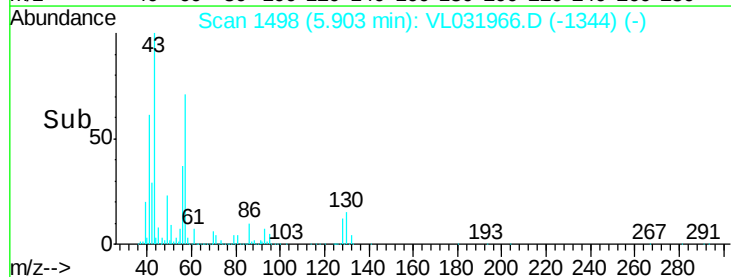
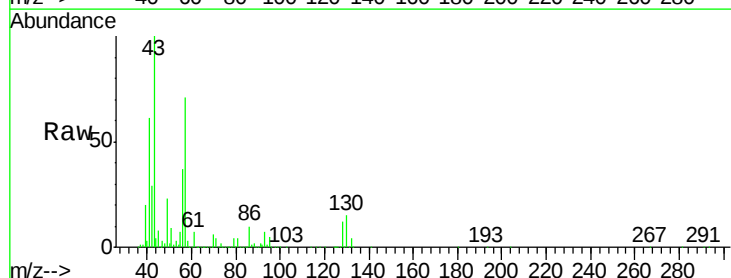
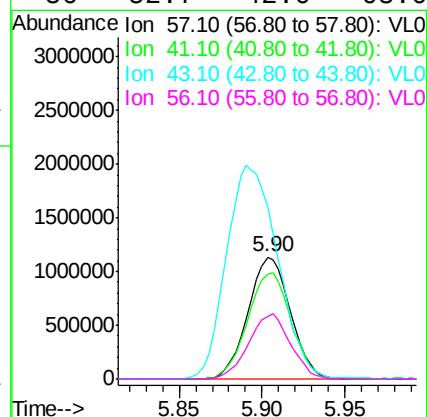
Manual Integrations
APPROVED

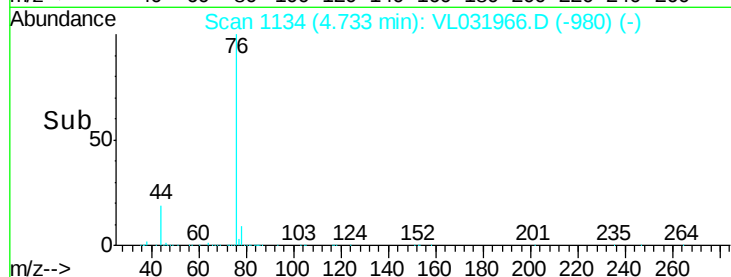
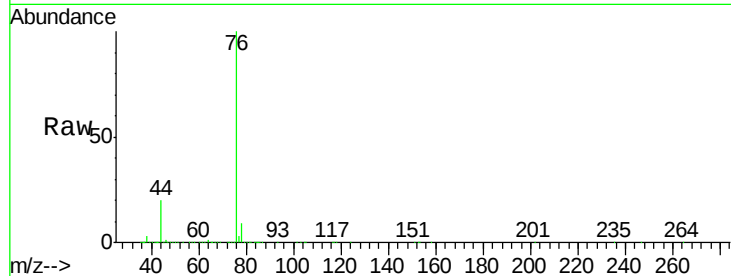
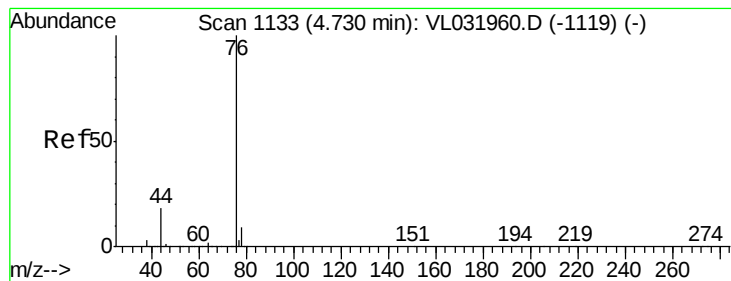
MMDadoda
5/4/2018 5:01:02 PM



#26
Hexane
Concen: 13.29 ppbv
RT: 5.90 min Scan# 1498
Delta R.T. -0.00 min
Lab File: VL031966.D
Acq: 3 May 2018 15:21

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	90.4	72.0	108.0	
43	212.5	169.8	254.8	
56	52.7	42.0	63.0	





#27

Carbon Disulfide

Concen: 11.92 ppbv

RT: 4.73 min Scan# 1134

Delta R.T. -0.00 min

Lab File: VL031966.D

Acq: 3 May 2018 15:21

Tot Ion:	76	Resp:	2338765
Ion	Ratio	Lower	Upper
76	100		
44	19.2	15.6	23.4
78	9.3	7.6	11.4

Instrument :

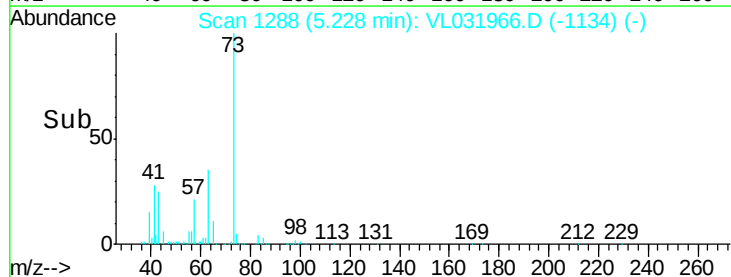
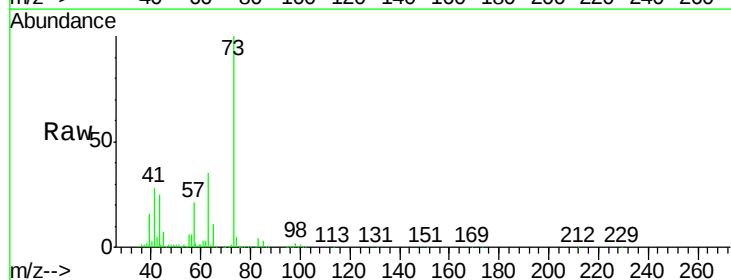
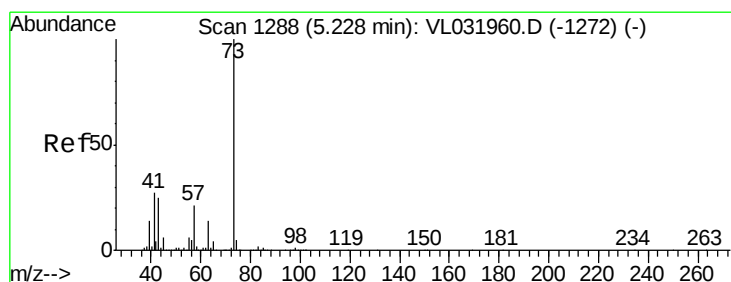
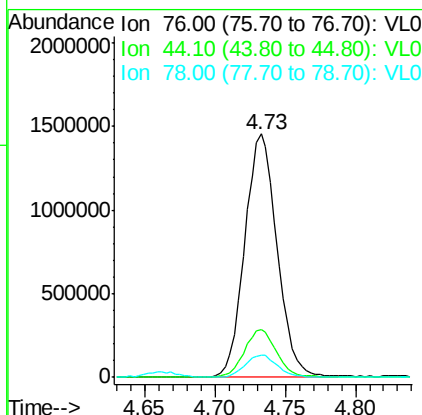
MSVOA_L

ClientSampleId :

VSTDIC015

Manual Integrations
APPROVED

MMDadoda
5/4/2018 5:01:02 PM



#28

Methyl tert-Butyl Ether

Concen: 12.66 ppbv

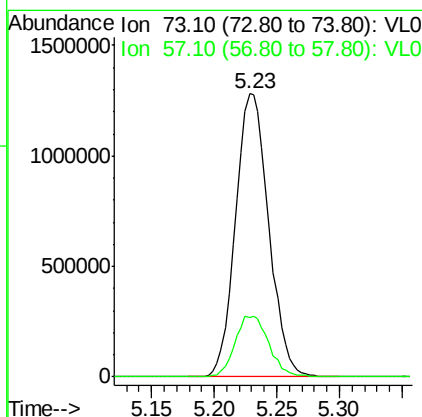
RT: 5.23 min Scan# 1288

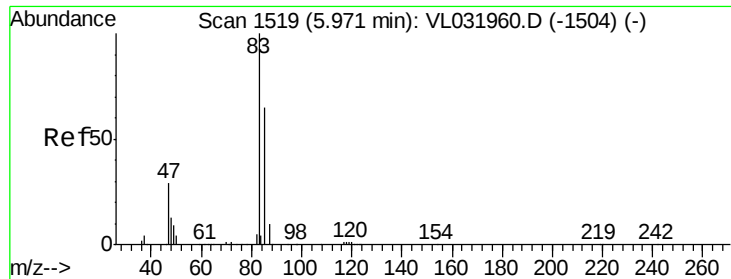
Delta R.T. -0.00 min

Lab File: VL031966.D

Acq: 3 May 2018 15:21

Tgt Ion:	73	Resp:	2355435
Ion	Ratio	Lower	Upper
73	100		
57	22.0	17.6	26.4





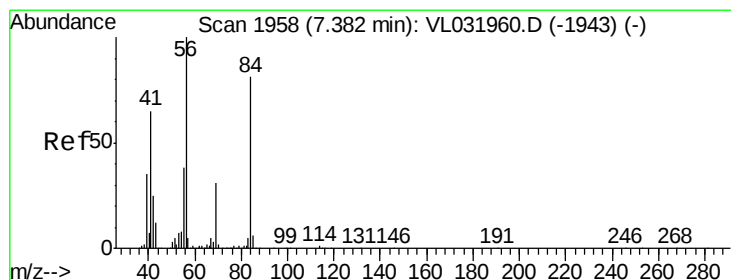
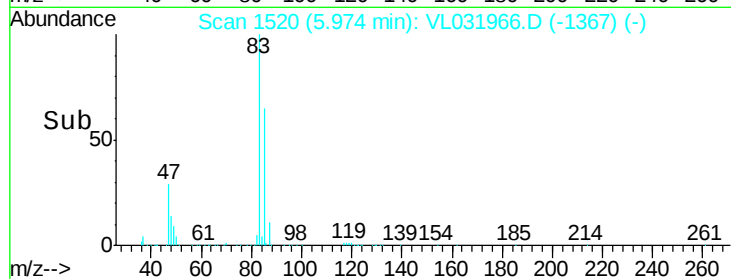
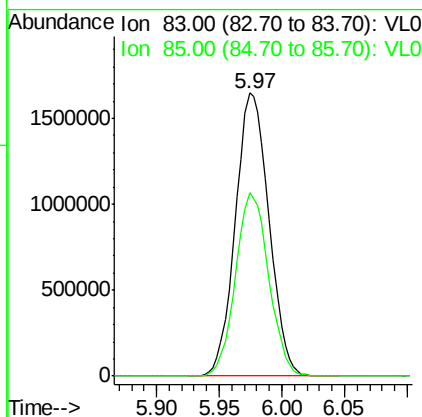
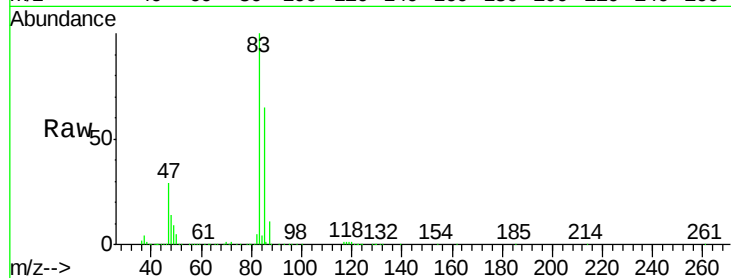
#29
Chloroform
Concen: 11.97 ppbv
RT: 5.97 min Scan# 1520
Delta R.T. -0.01 min
Lab File: VL031966.D
Acq: 3 May 2018 15:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 3067130
Ion Ratio Lower Upper
83 100
85 64.9 51.4 77.0

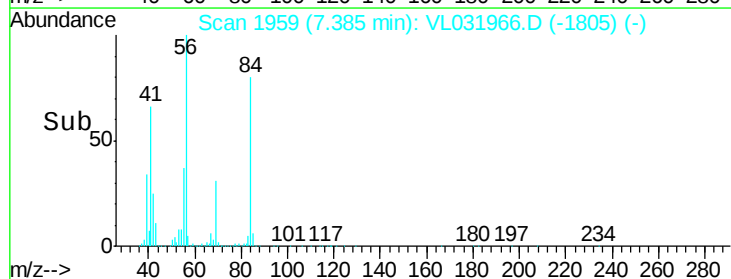
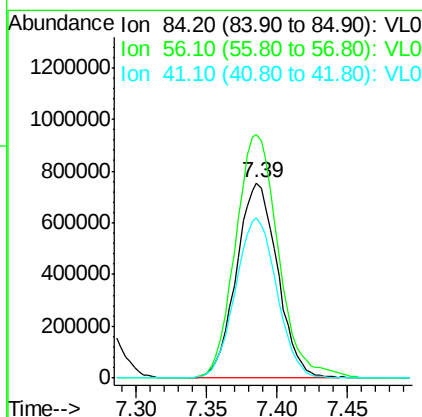
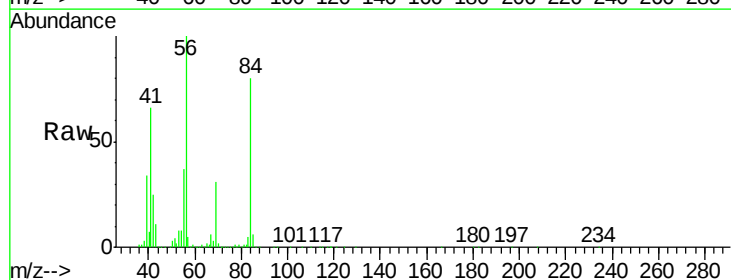
Manual Integrations
APPROVED

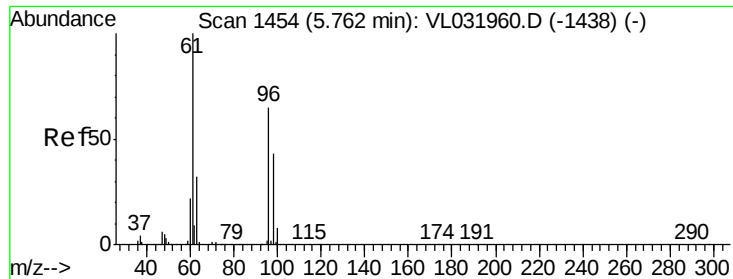
MMDadoda
5/4/2018 5:01:02 PM



#30
Cyclohexane
Concen: 14.18 ppbv
RT: 7.39 min Scan# 1959
Delta R.T. -0.00 min
Lab File: VL031966.D
Acq: 3 May 2018 15:21

Tgt Ion: 84 Resp: 1530753
Ion Ratio Lower Upper
84 100
56 131.8 107.7 161.5
41 83.0 68.2 102.2





#31

cis-1,2-Dichloroethene

Concen: 13.97 ppbv

RT: 5.76 min Scan# 1455

Delta R.T. -0.00 min

Lab File: VL031966.D

Acq: 3 May 2018 15:21

Instrument :

MSVOA_L

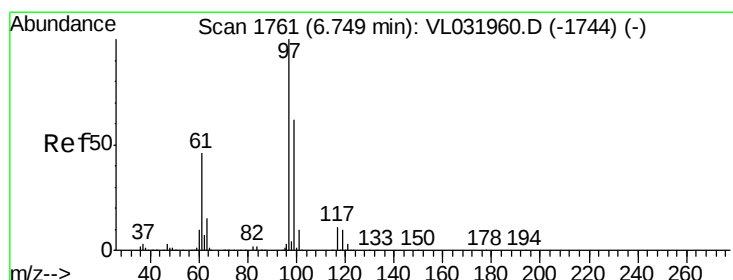
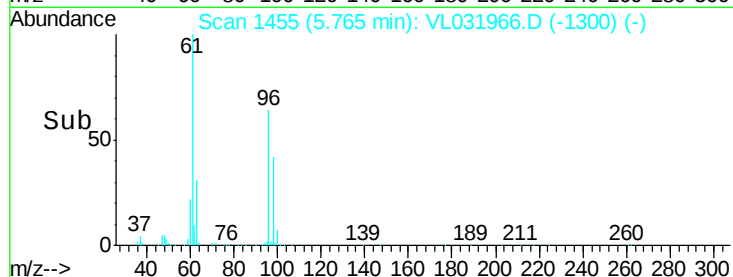
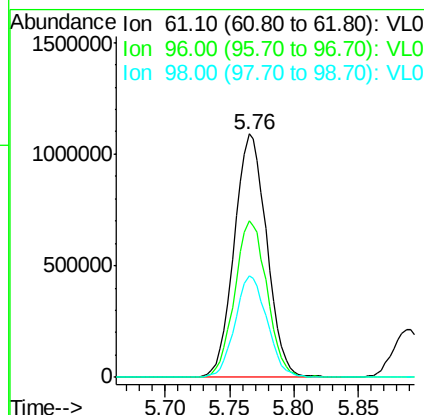
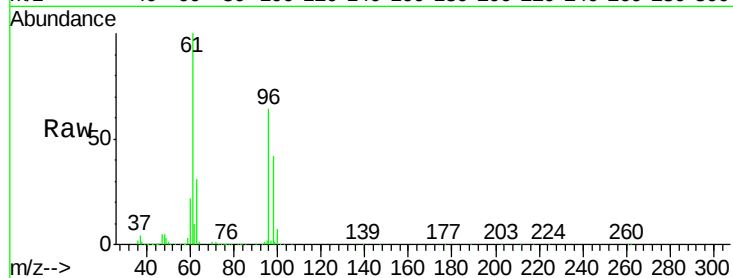
ClientSampleId :

VSTDIC015

Tot Ion:	61	Resp:	1913117
Ion	Ratio	Lower	Upper
61	100		
96	64.3	47.6	71.4
98	42.0	30.3	45.5

Manual Integrations
APPROVED

MMDadoda
5/4/2018 5:01:02 PM



#32

1,1,1-Trichloroethane

Concen: 12.17 ppbv

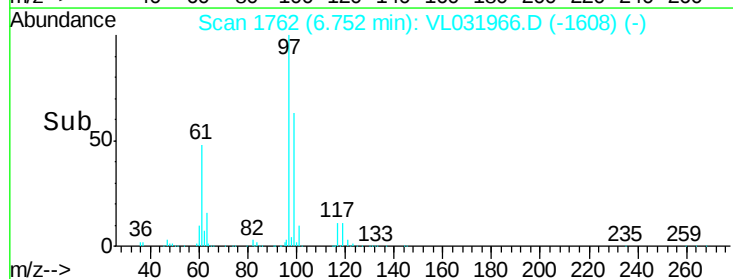
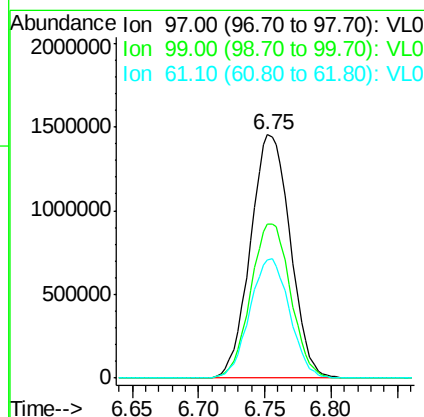
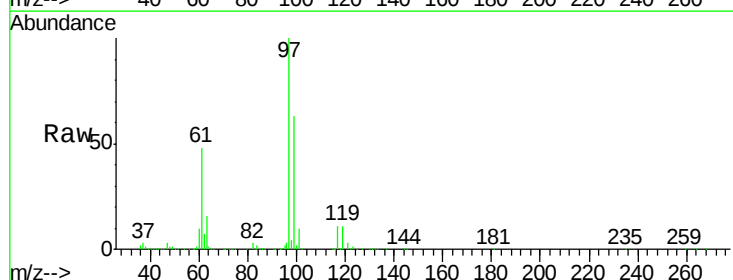
RT: 6.75 min Scan# 1762

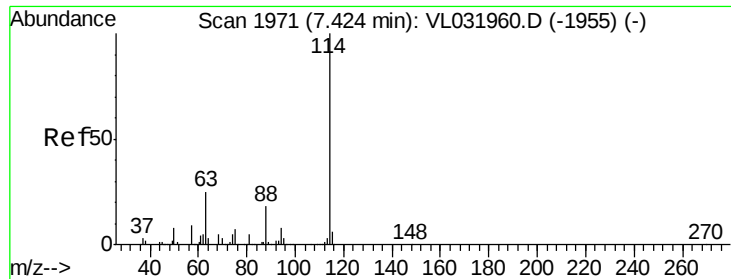
Delta R.T. -0.00 min

Lab File: VL031966.D

Acq: 3 May 2018 15:21

Tgt Ion:	97	Resp:	3035508
Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.5	77.3
61	49.0	40.0	60.0





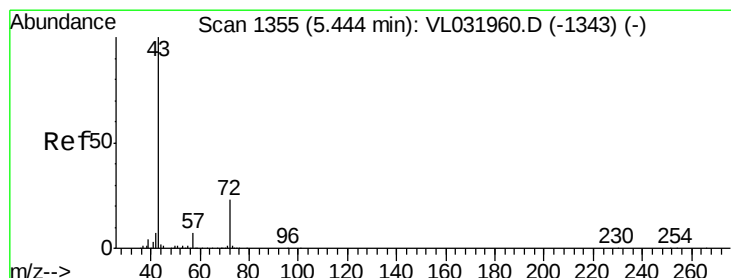
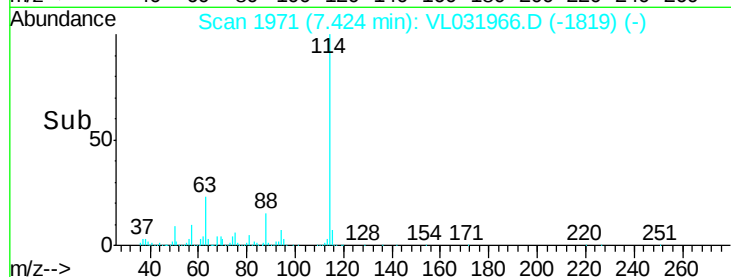
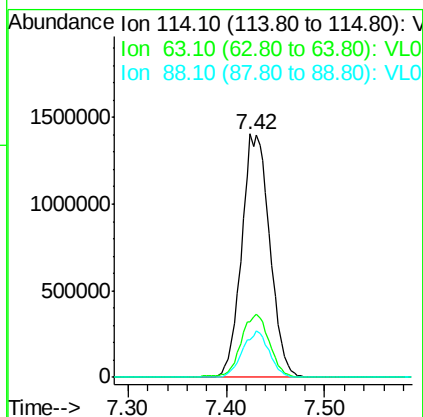
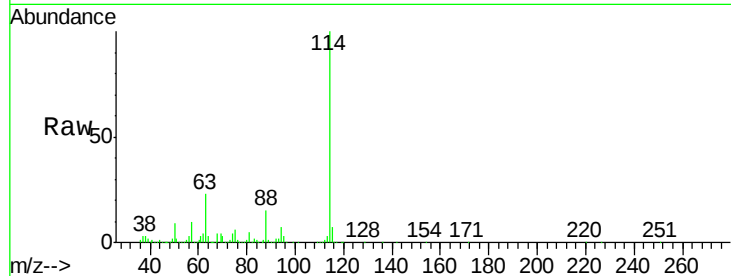
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv m
 RT: 7.42 min Scan# 1971
 Delta R.T. -0.01 min
 Lab File: VL031966.D
 Acq: 3 May 2018 15:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:114 Resp: 2791592
 Ion Ratio Lower Upper
 114 100
 63 26.5 21.8 32.6
 88 18.1 14.6 22.0

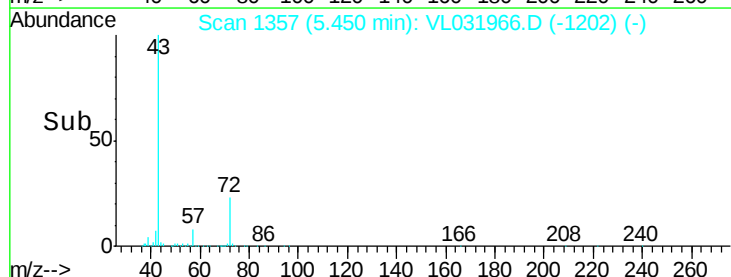
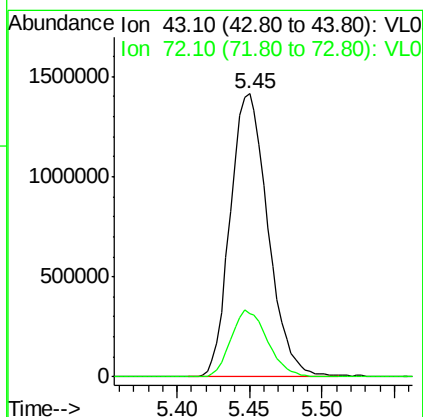
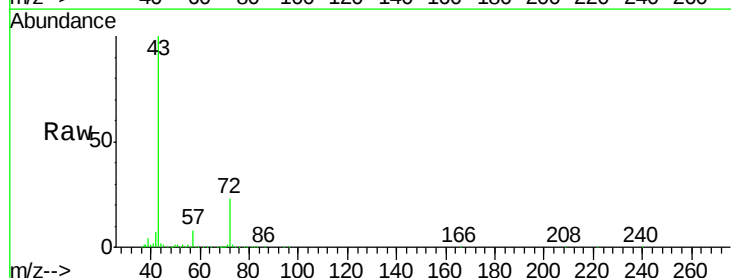
Manual Integrations
 APPROVED

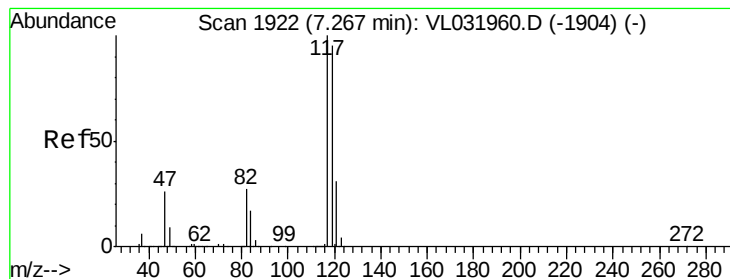
MMDadoda
 5/4/2018 5:01:02 PM



#34
 2-Butanone
 Concen: 13.15 ppbv
 RT: 5.45 min Scan# 1357
 Delta R.T. -0.00 min
 Lab File: VL031966.D
 Acq: 3 May 2018 15:21

Tgt Ion: 43 Resp: 2546525
 Ion Ratio Lower Upper
 43 100
 72 23.1 18.6 27.8





#35

Carbon Tetrachloride

Concen: 12.70 ppbv

RT: 7.27 min Scan# 1924

Delta R.T. -0.00 min

Lab File: VL031966.D

Acq: 3 May 2018 15:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:117 Resp: 3078160

Ion Ratio Lower Upper

117 100

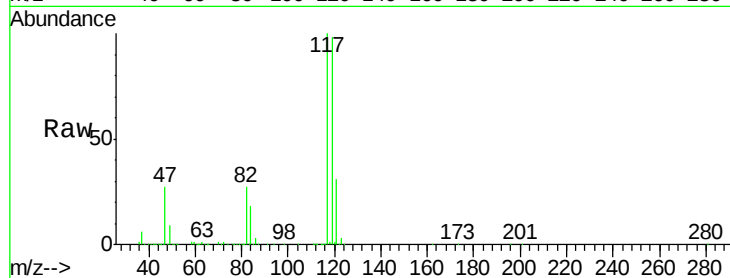
119 98.5 76.9 115.3

121 31.1 24.5 36.7

Manual Integrations
APPROVED

MMDadoda

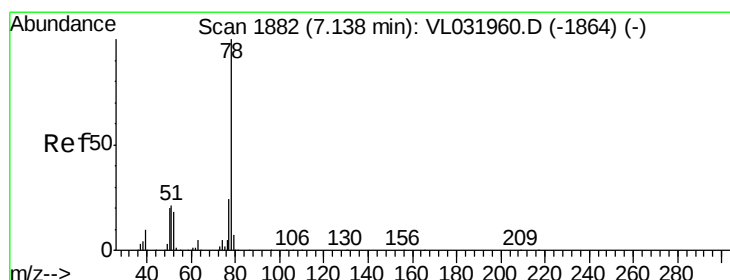
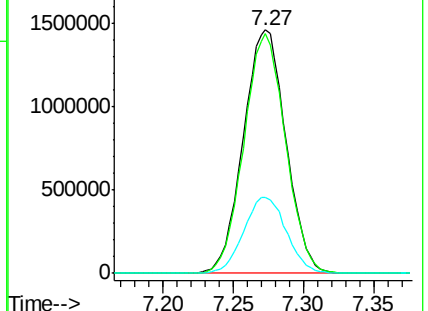
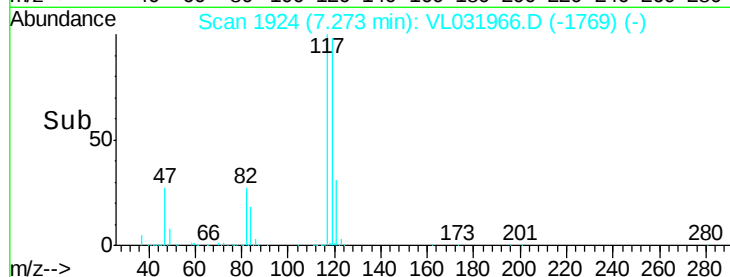
5/4/2018 5:01:02 PM



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: 16.24 ppbv

RT: 7.14 min Scan# 1884

Delta R.T. -0.00 min

Lab File: VL031966.D

Acq: 3 May 2018 15:21

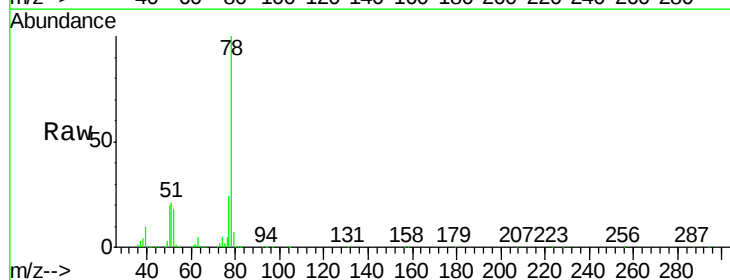
Tgt Ion: 78 Resp: 4079062

Ion Ratio Lower Upper

78 100

77 23.7 19.2 28.8

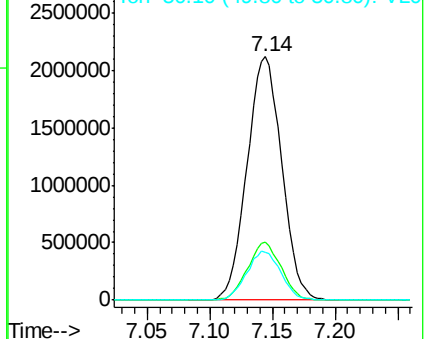
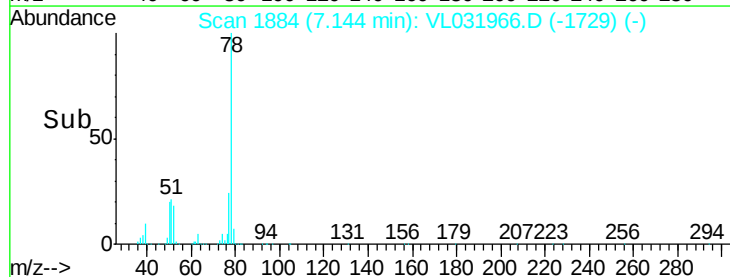
50 19.8 16.7 25.1

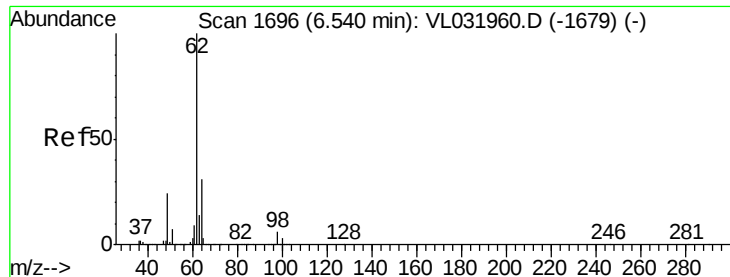


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





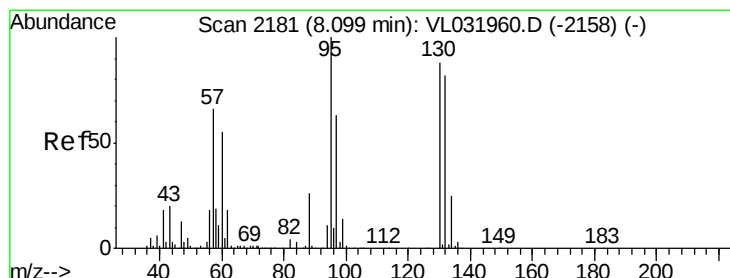
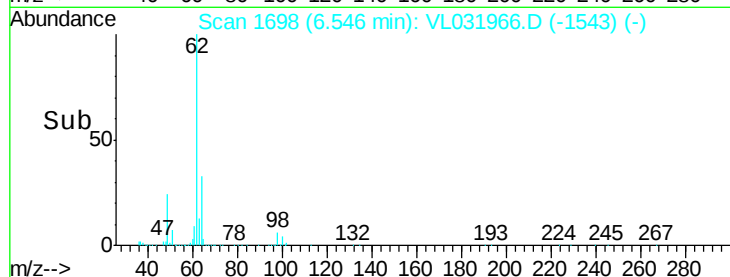
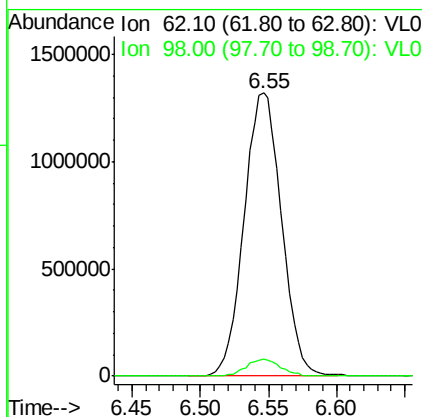
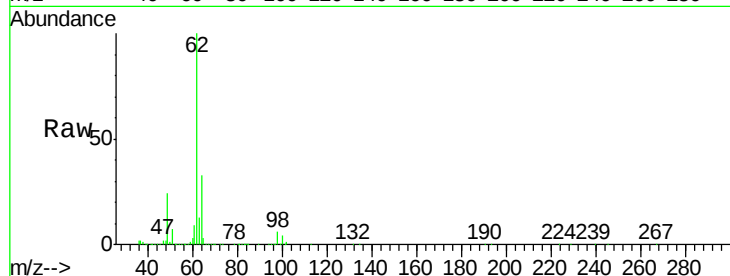
#37
 1,2-Dichloroethane
 Concen: 13.45 ppbv
 RT: 6.55 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VL031966.D
 Acq: 3 May 2018 15:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.7	4.0	6.0

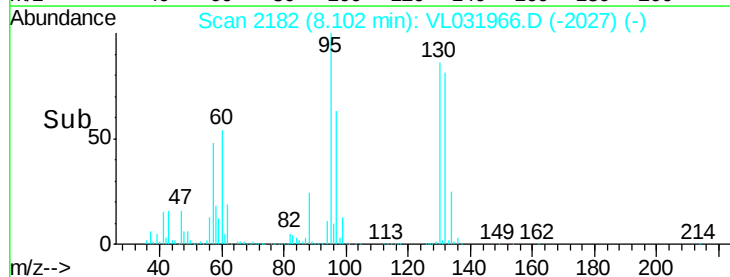
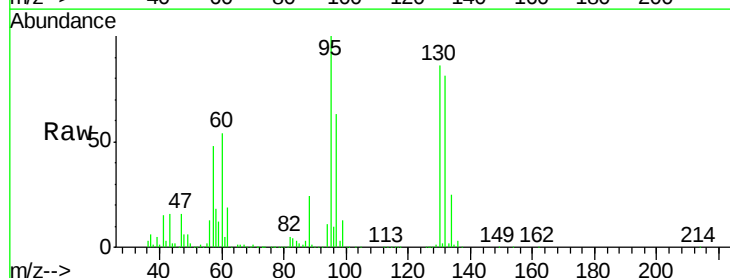
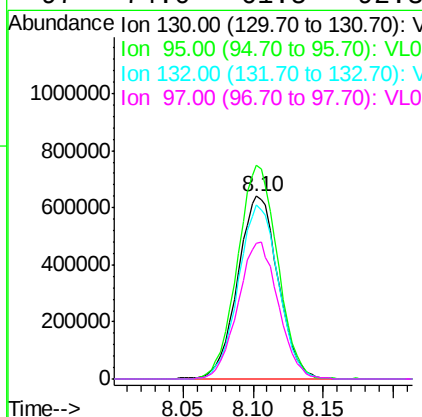
Manual Integrations
 APPROVED

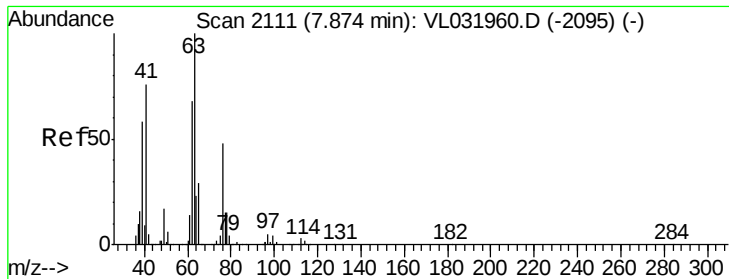
MMDadoda
 5/4/2018 5:01:02 PM



#38
 Trichloroethene
 Concen: 12.53 ppbv
 RT: 8.10 min Scan# 2182
 Delta R.T. -0.00 min
 Lab File: VL031966.D
 Acq: 3 May 2018 15:21

Tgt Ion	Ratio	Lower	Upper
130	100		
95	116.7	96.6	144.8
132	95.0	79.1	118.7
97	74.0	61.5	92.3





#39

1,2-Dichloropropane

Concen: 12.63 ppbv

RT: 7.88 min Scan# 2112

Delta R.T. -0.00 min

Lab File: VL031966.D

Acq: 3 May 2018 15:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 63 Resp: 1178875

Ion Ratio Lower Upper

63 100

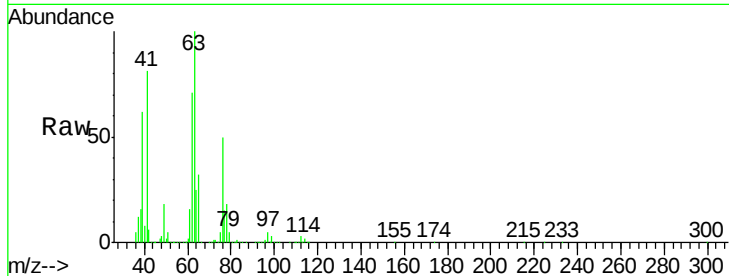
41 80.6 65.8 98.6

62 70.9 55.0 82.6

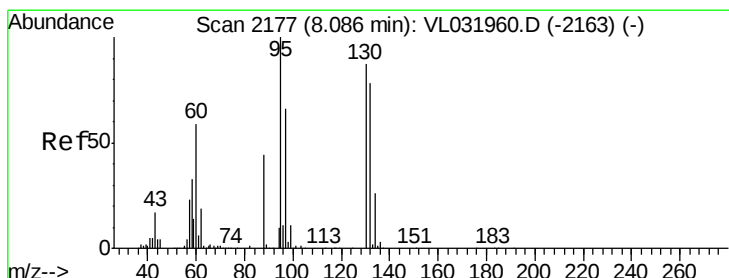
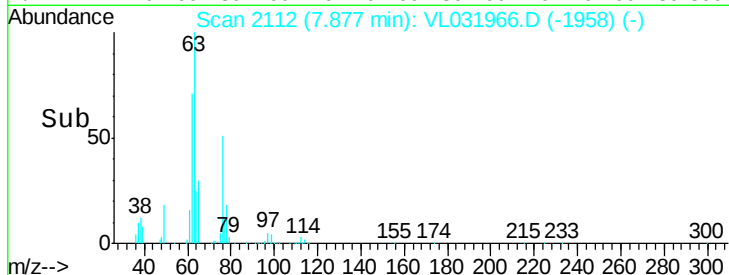
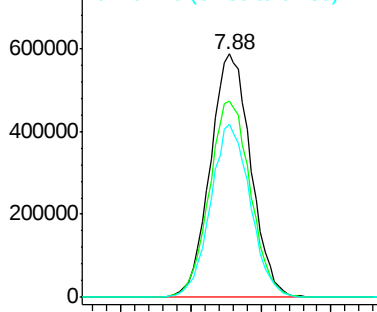
Manual Integrations
APPROVED

MMDadoda

5/4/2018 5:01:02 PM



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 13.16 ppbv

RT: 8.09 min Scan# 2178

Delta R.T. -0.00 min

Lab File: VL031966.D

Acq: 3 May 2018 15:21

Tgt Ion: 88 Resp: 498590

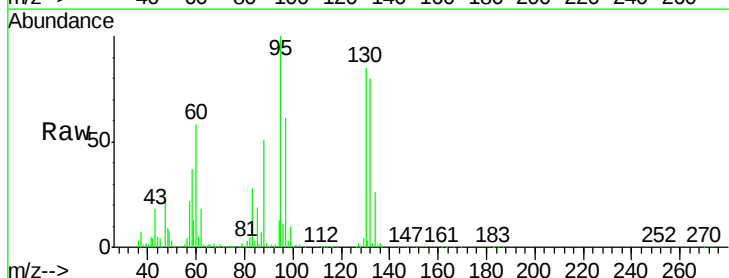
Ion Ratio Lower Upper

88 100

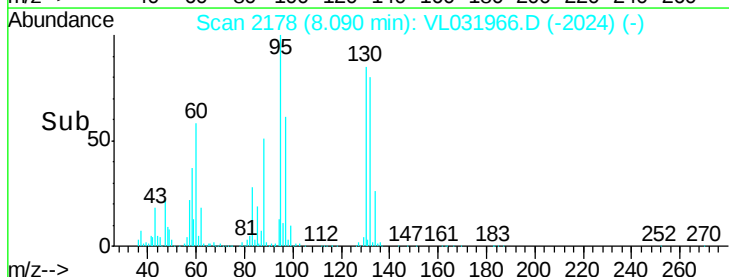
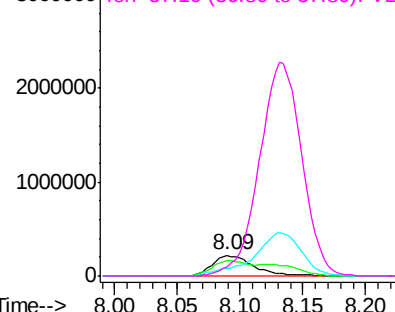
58 121.6 98.5 147.7

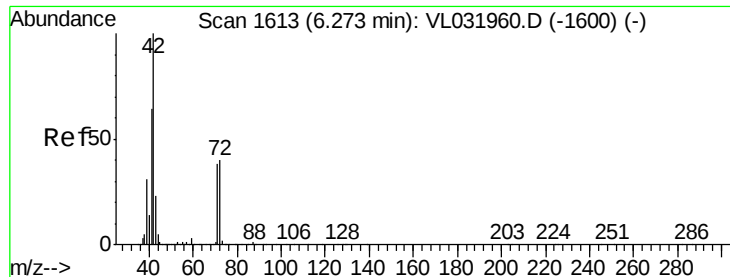
43 243.3 194.3 291.5

57 1076.6 861.8 1292.6



Abundance Ion 88.10 (87.80 to 88.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 15.59 ppbv

RT: 6.27 min Scan# 1613

Delta R.T. -0.01 min

Lab File: VL031966.D

Acq: 3 May 2018 15:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 42 Resp: 1397078

Ion Ratio Lower Upper

42 100

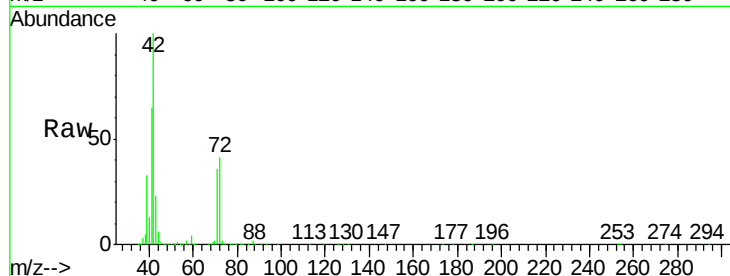
72 40.5 33.2 49.8

71 39.0 31.5 47.3

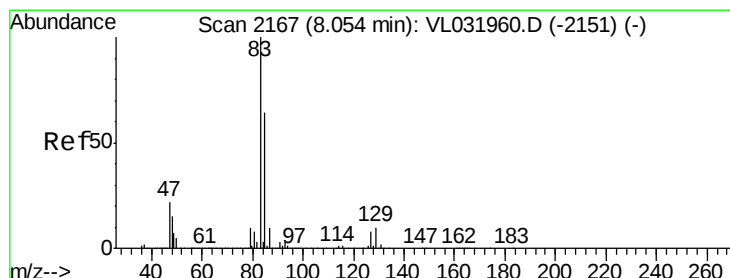
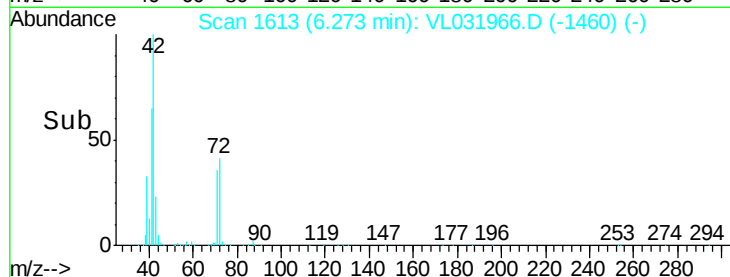
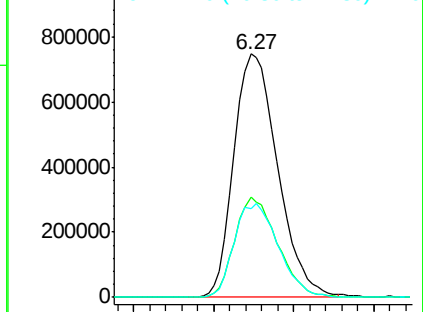
Manual Integrations
APPROVED

MMDadoda

5/4/2018 5:01:02 PM



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 12.09 ppbv

RT: 8.06 min Scan# 2168

Delta R.T. -0.00 min

Lab File: VL031966.D

Acq: 3 May 2018 15:21

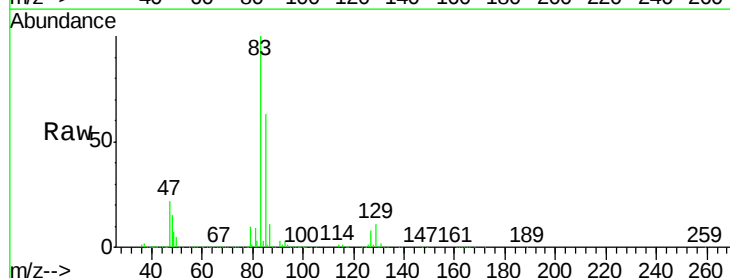
Tgt Ion: 83 Resp: 2702855

Ion Ratio Lower Upper

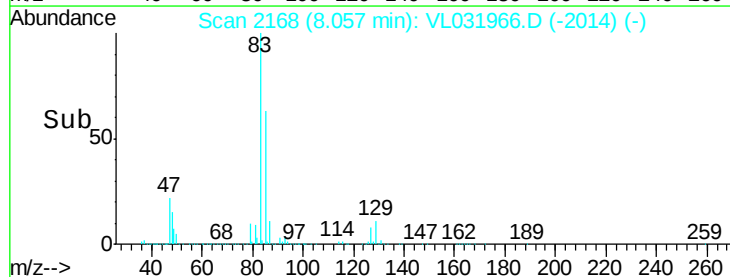
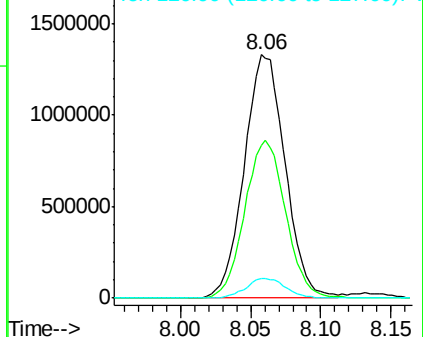
83 100

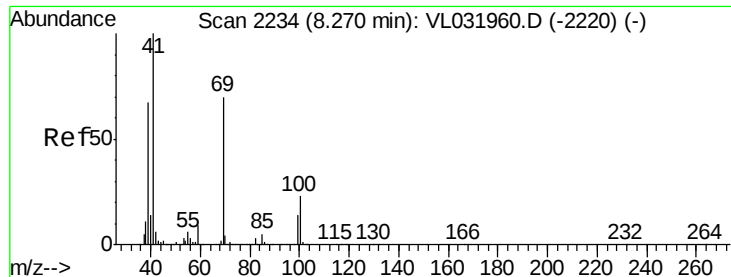
85 62.5 50.5 75.7

127 8.2 6.0 9.0



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V





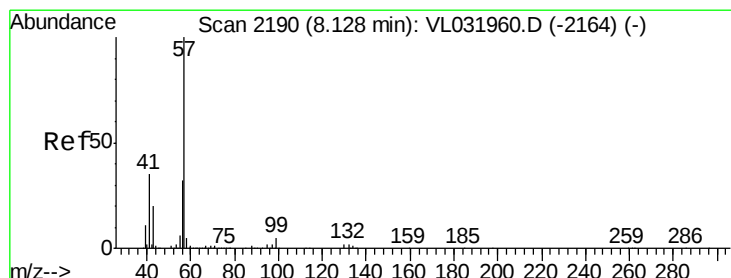
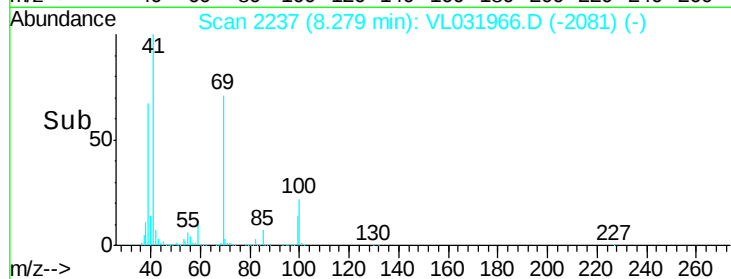
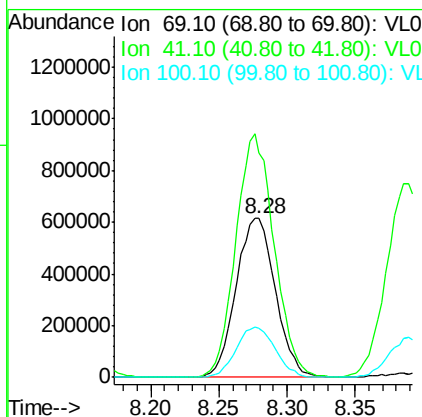
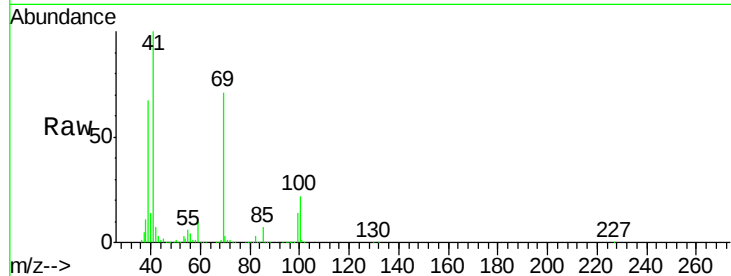
#43
Methvl Methacrylate
Concen: 13.91 ppbv
RT: 8.28 min Scan# 2237
Delta R.T. 0.00 min
Lab File: VL031966.D
Acq: 3 May 2018 15:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
69	100		
41	149.4	117.8	176.8
100	31.9	24.6	37.0

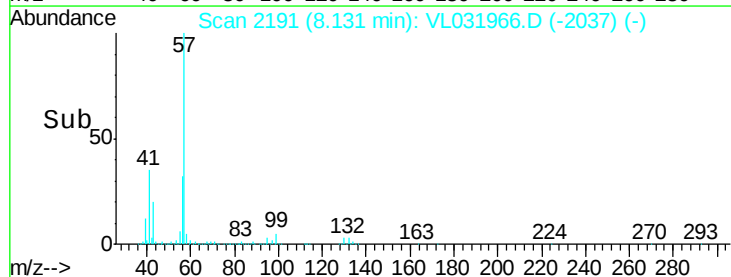
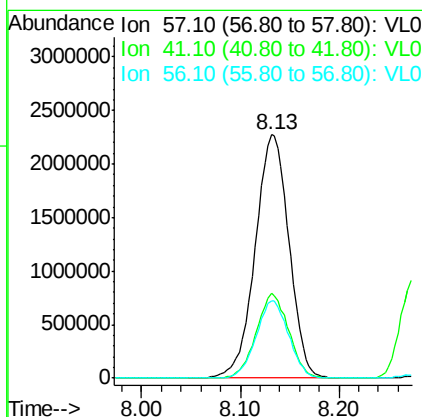
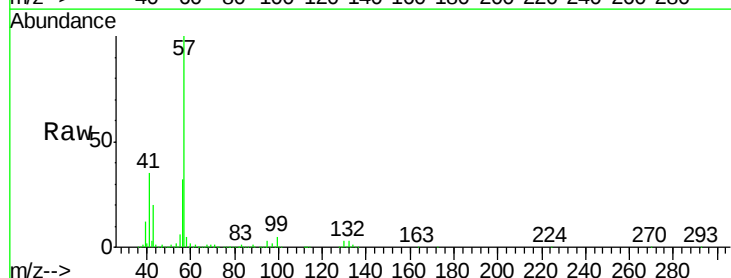
Manual Integrations
APPROVED

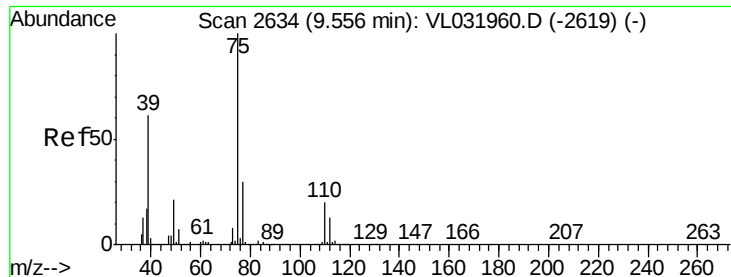
MMDadoda
5/4/2018 5:01:02 PM



#44
2,2,4-Trimethylpentane
Concen: 12.40 ppbv
RT: 8.13 min Scan# 2191
Delta R.T. -0.00 min
Lab File: VL031966.D
Acq: 3 May 2018 15:21

Tgt Ion	Ratio	Lower	Upper
57	100		
41	33.4	27.0	40.6
56	30.6	24.1	36.1





#45

t-1,3-Dichloropropene

Concen: 15.49 ppbv

RT: 9.56 min Scan# 2635

Delta R.T. -0.00 min

Lab File: VL031966.D

Acq: 3 May 2018 15:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 75 Resp: 1775005

Ion Ratio Lower Upper

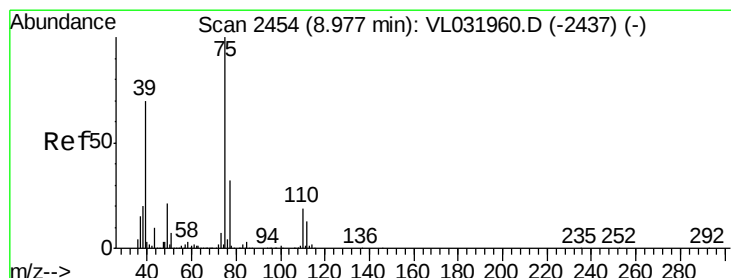
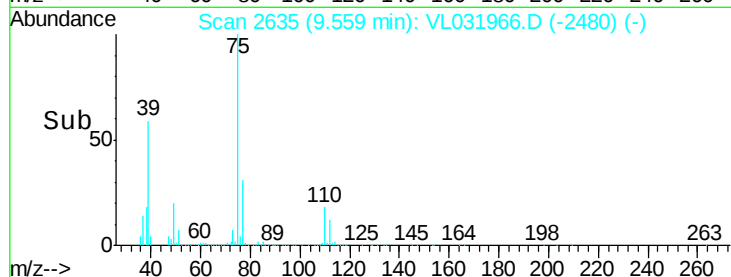
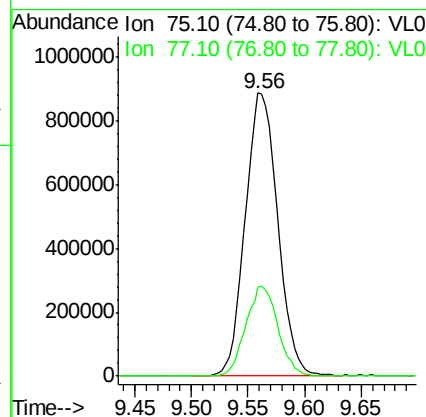
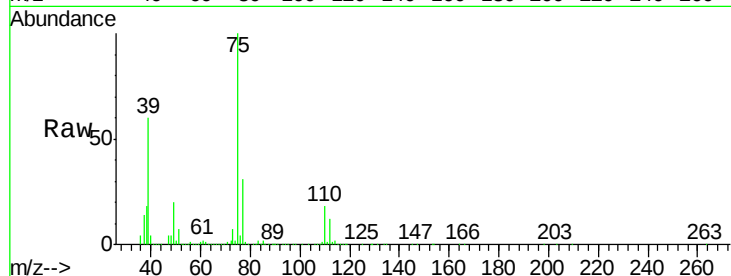
75 100

77 31.5 25.1 37.7

Manual Integrations
APPROVED

MMDadoda

5/4/2018 5:01:02 PM



#46

cis-1,3-Dichloropropene

Concen: 14.28 ppbv

RT: 8.98 min Scan# 2455

Delta R.T. -0.00 min

Lab File: VL031966.D

Acq: 3 May 2018 15:21

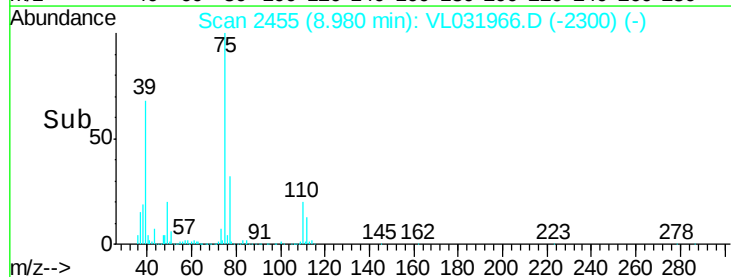
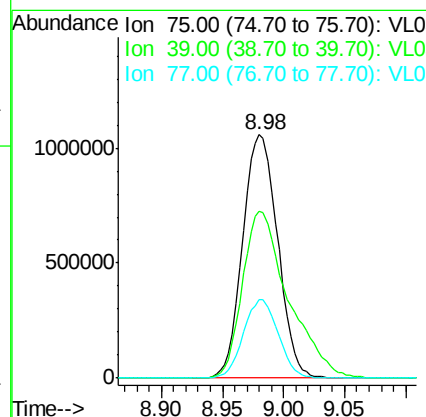
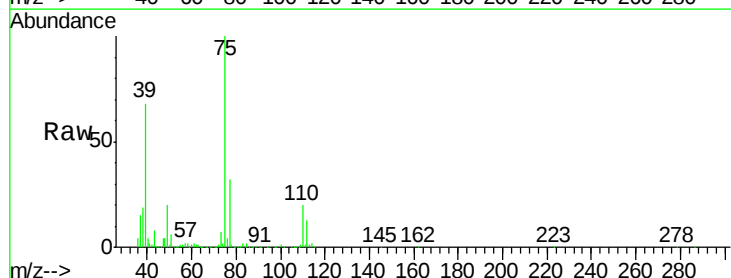
Tgt Ion: 75 Resp: 2092274

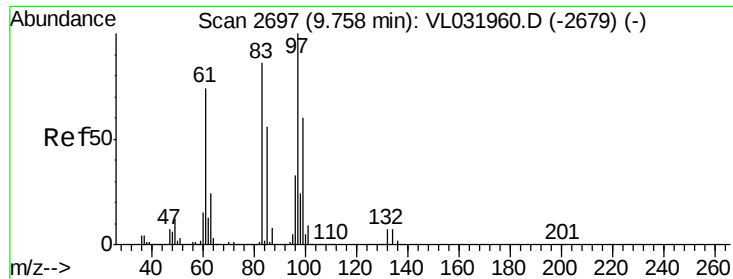
Ion Ratio Lower Upper

75 100

39 68.4 58.6 87.8

77 32.2 26.8 40.2





#47

1,1,2-Trichloroethane

Concen: 12.57 ppbv

RT: 9.76 min Scan# 2699

Delta R.T. 0.00 min

Lab File: VL031966.D

Acq: 3 May 2018 15:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 97 Resp: 1394857

Ion Ratio Lower Upper

97 100

83 90.3 69.1 103.7

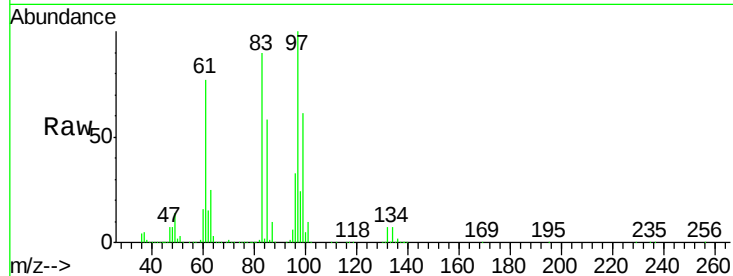
85 57.9 43.7 65.5

99 61.4 49.4 74.2

Manual Integrations
APPROVED

MMDadoda

5/4/2018 5:01:02 PM

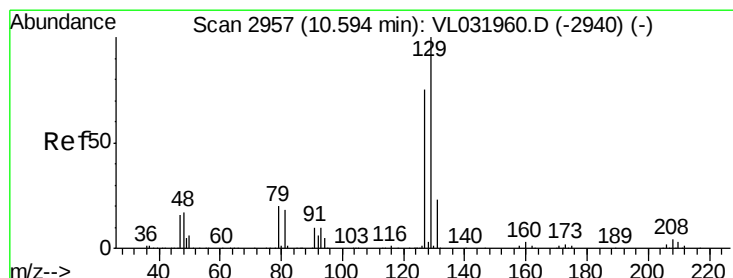
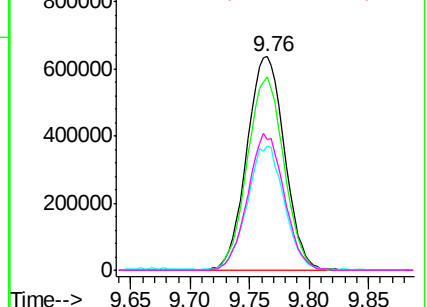
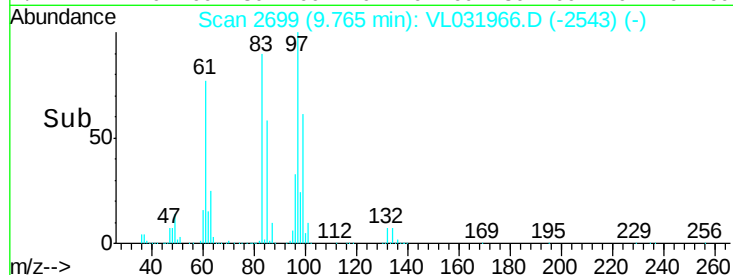


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 13.14 ppbv

RT: 10.60 min Scan# 2960

Delta R.T. -0.00 min

Lab File: VL031966.D

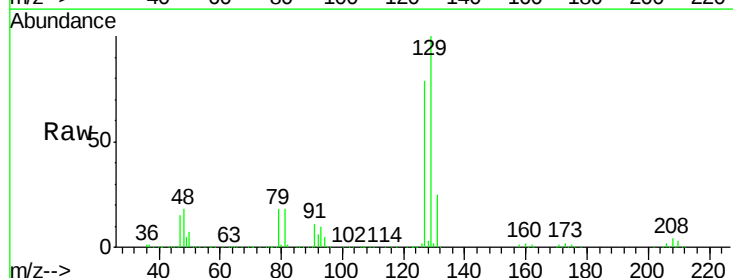
Acq: 3 May 2018 15:21

Tgt Ion: 129 Resp: 2356027

Ion Ratio Lower Upper

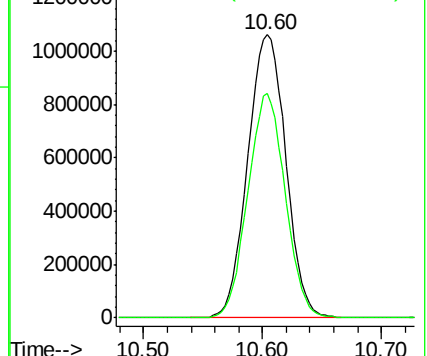
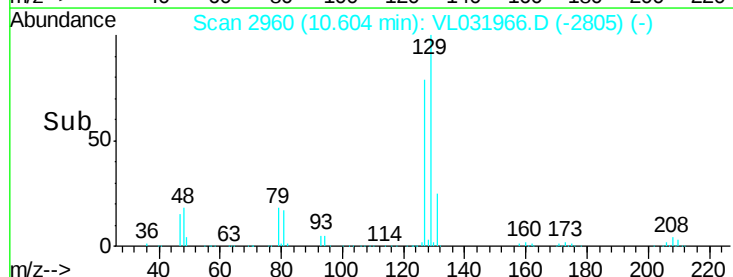
129 100

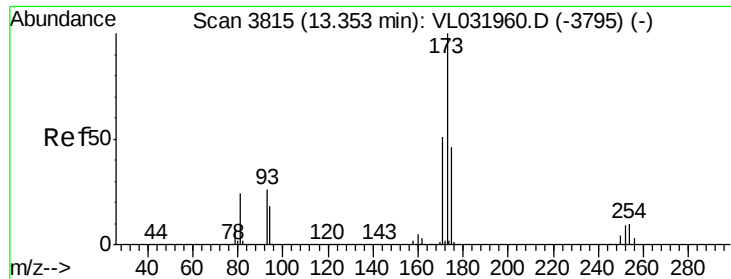
127 77.7 39.1 117.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





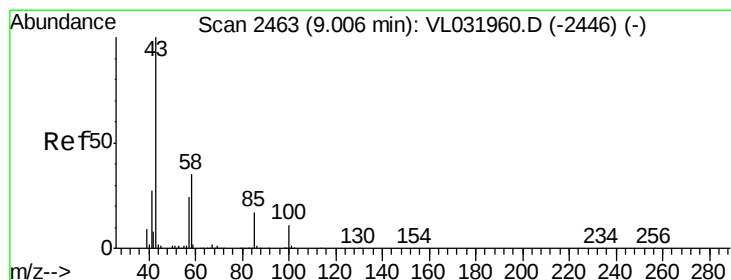
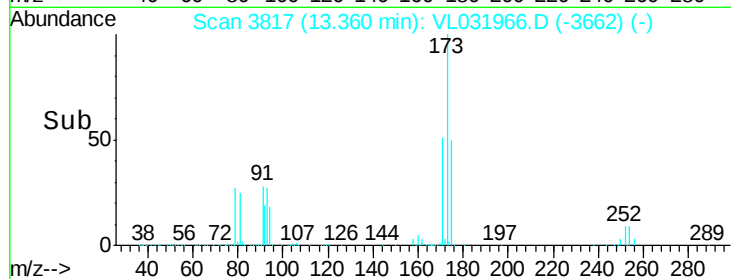
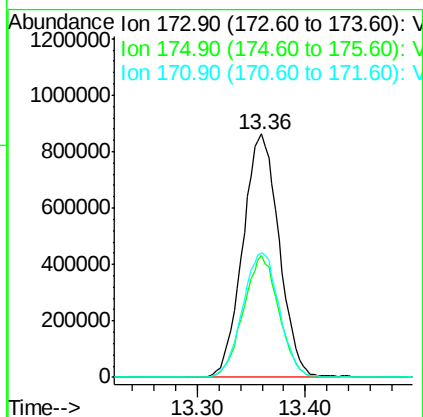
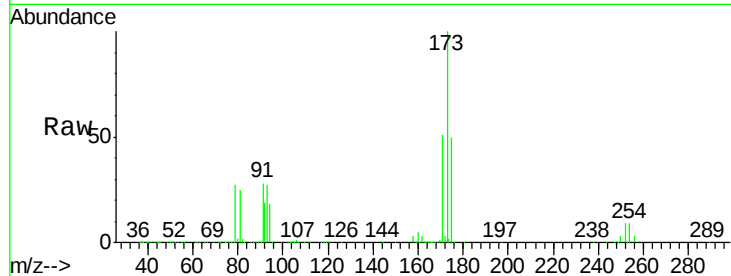
#49
Bromoform
Concen: 14.62 ppbv
RT: 13.36 min Scan# 3817
Delta R.T. -0.00 min
Lab File: VL031966.D
Acq: 3 May 2018 15:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:173 Resp: 2017423
Ion Ratio Lower Upper
173 100
175 49.1 39.0 58.6
171 52.3 41.4 62.0

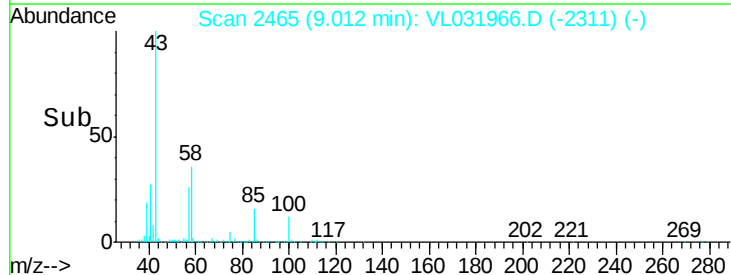
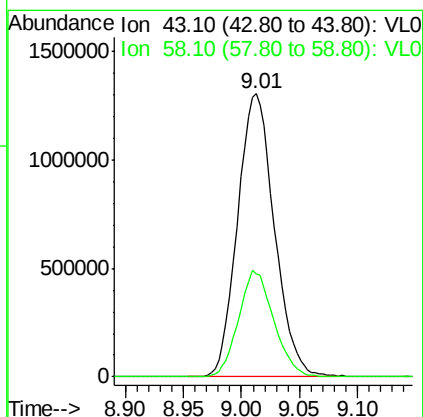
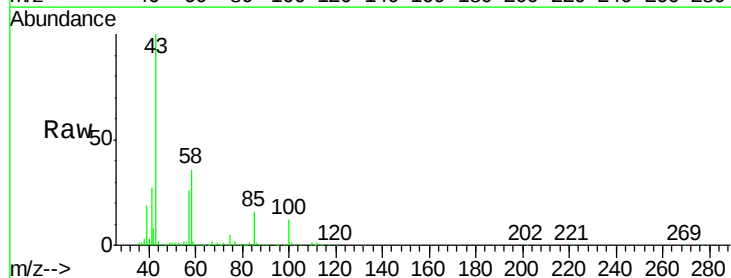
Manual Integrations
APPROVED

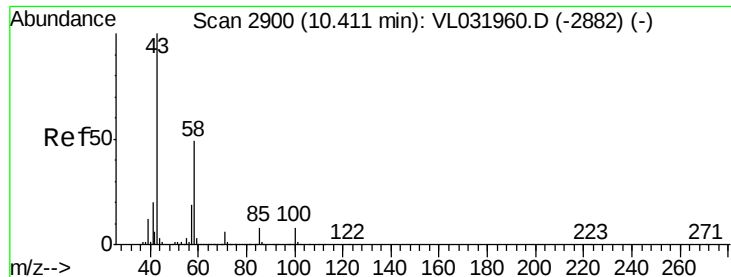
MMDadoda
5/4/2018 5:01:02 PM



#50
4-Methyl-2-Pentanone
Concen: 12.95 ppbv
RT: 9.01 min Scan# 2465
Delta R.T. -0.00 min
Lab File: VL031966.D
Acq: 3 May 2018 15:21

Tgt Ion: 43 Resp: 2871305
Ion Ratio Lower Upper
43 100
58 36.1 28.6 43.0





#51

2-Hexanone

Concen: 13.63 ppbv

RT: 10.42 min Scan# 2902

Delta R.T. -0.00 min

Lab File: VL031966.D

Acq: 3 May 2018 15:21

Instrument :

MSVOA_L

ClientSampled :

VSTDIC015

Tot Ion: 43 Resp: 2641585

Ion Ratio Lower Upper

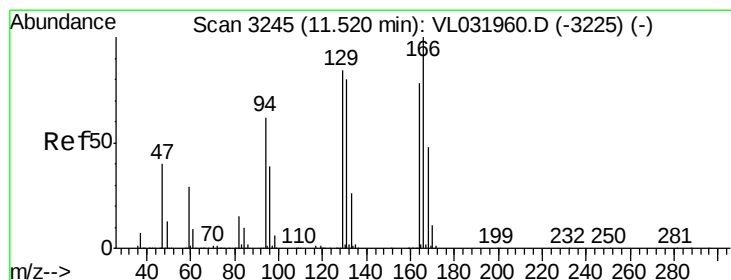
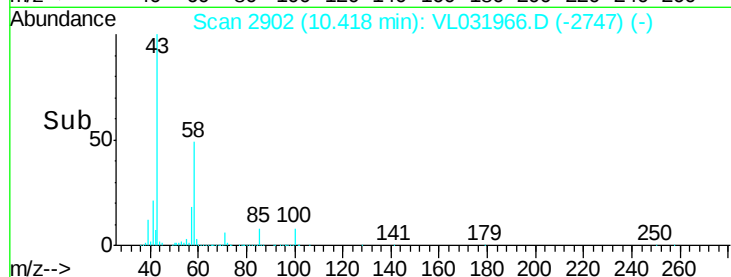
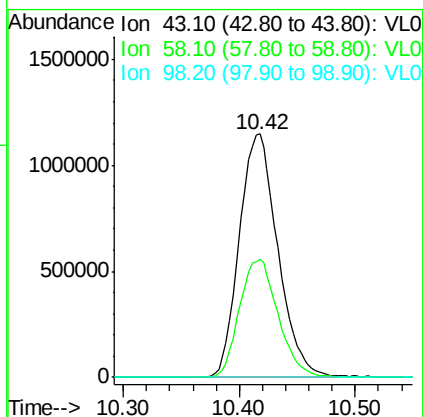
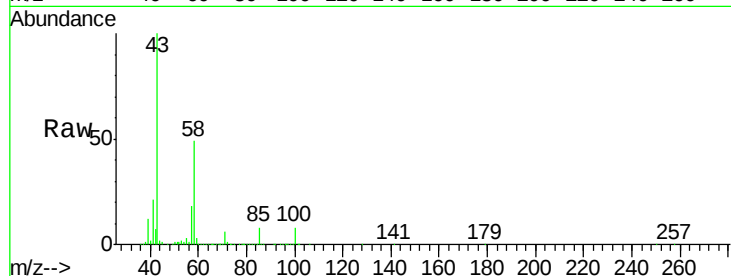
43 100

58 48.9 38.5 57.7

98 0.3 0.2 0.4

Manual Integrations
APPROVED

MMDadoda
5/4/2018 5:01:02 PM



#52

Tetrachloroethene

Concen: 13.45 ppbv

RT: 11.52 min Scan# 3246

Delta R.T. -0.00 min

Lab File: VL031966.D

Acq: 3 May 2018 15:21

Tgt Ion: 164 Resp: 1316218

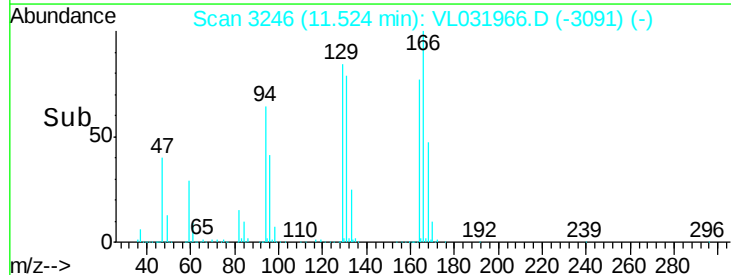
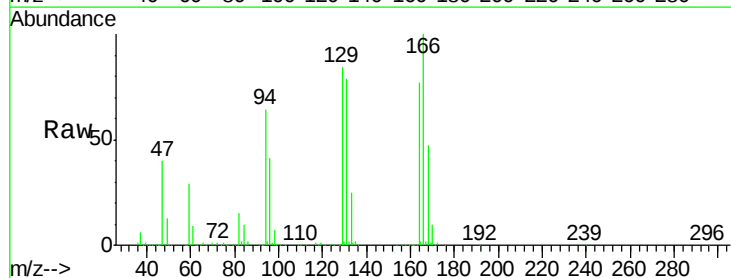
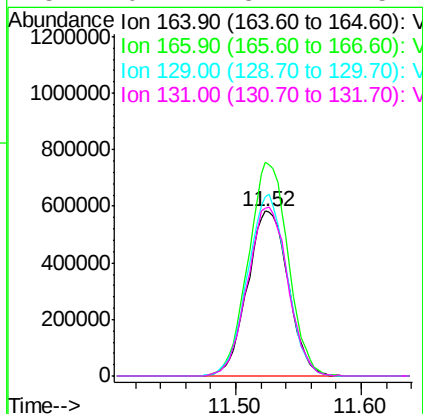
Ion Ratio Lower Upper

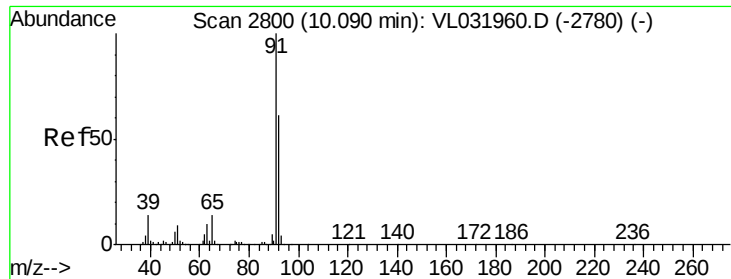
164 100

166 129.4 98.2 147.4

129 108.4 86.5 129.7

131 101.7 82.2 123.2





#53

Toluene

Concen: 14.00 ppbv

RT: 10.10 min Scan# 2802

Delta R.T. 0.00 min

Lab File: VL031966.D

Acq: 3 May 2018 15:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 3919724

Ion Ratio Lower Upper

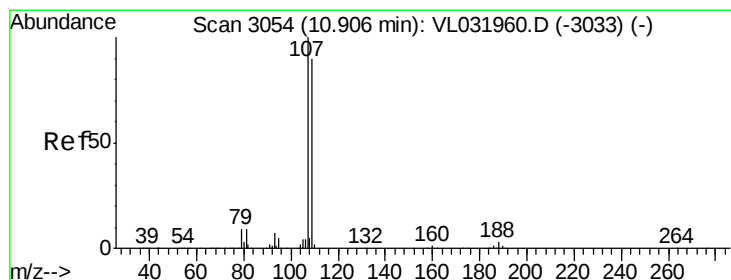
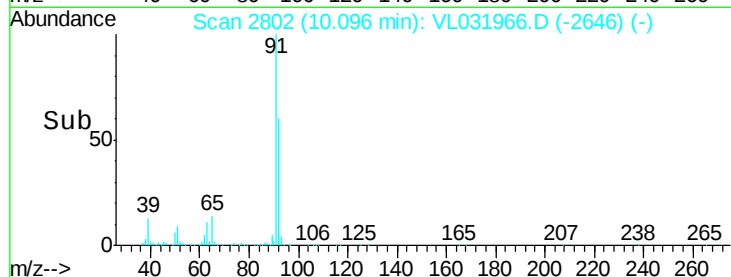
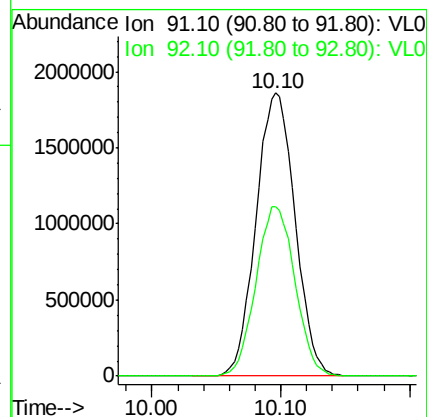
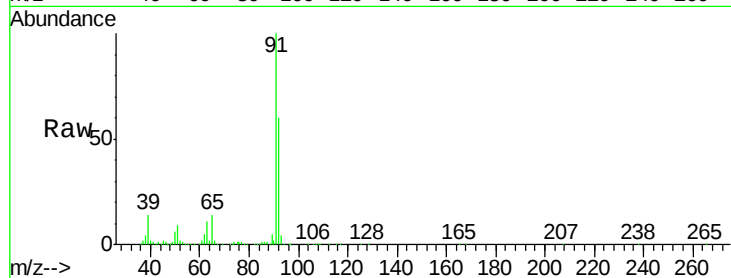
91 100

92 60.1 47.4 71.2

Manual Integrations
APPROVED

MMDadoda

5/4/2018 5:01:02 PM



#54

1,2-Dibromoethane

Concen: 13.76 ppbv

RT: 10.91 min Scan# 3056

Delta R.T. 0.00 min

Lab File: VL031966.D

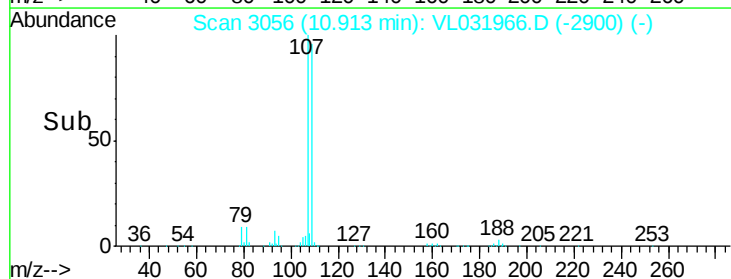
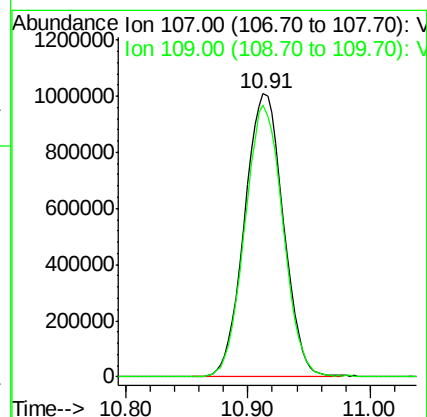
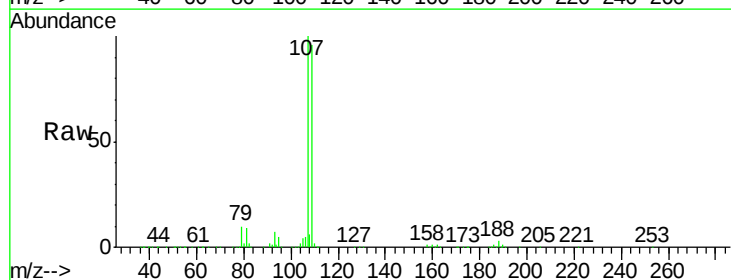
Acq: 3 May 2018 15:21

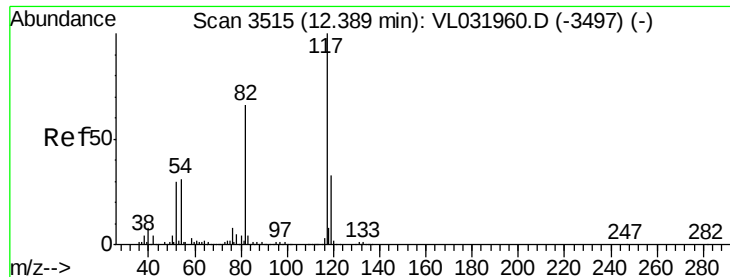
Tgt Ion: 107 Resp: 2215656

Ion Ratio Lower Upper

107 100

109 96.0 74.6 112.0





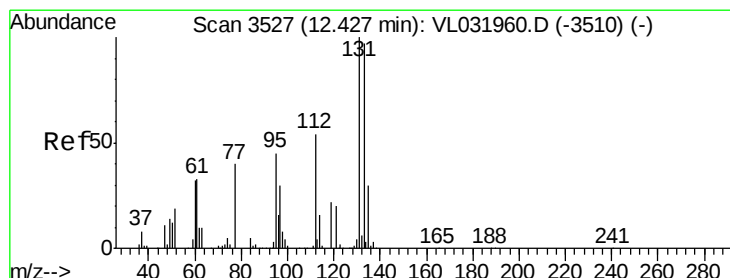
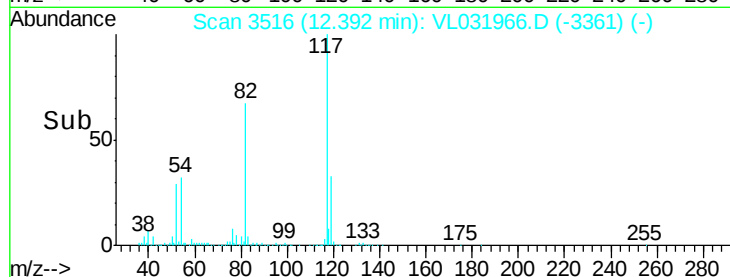
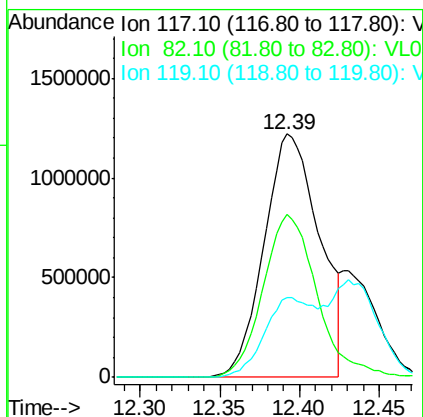
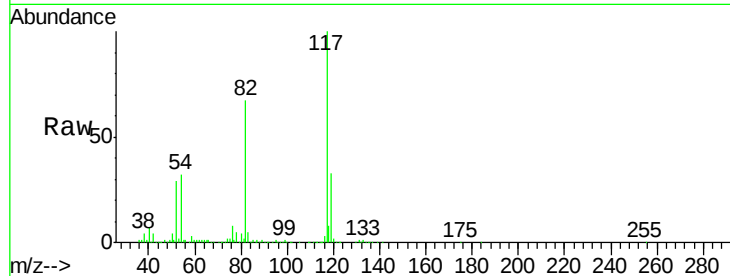
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.39 min Scan# 3516
Delta R.T. -0.00 min
Lab File: VL031966.D
Acq: 3 May 2018 15:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:117 Resp: 2937570
Ion Ratio Lower Upper
117 100
82 65.6 54.6 81.8
119 0.0 26.0 39.0#

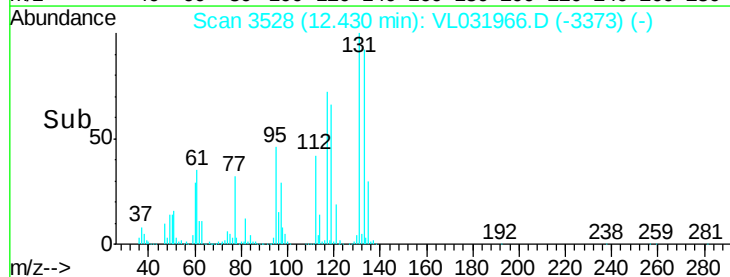
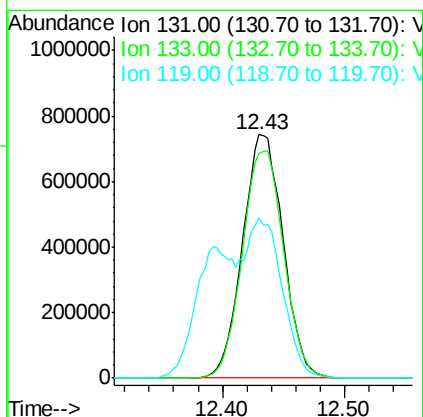
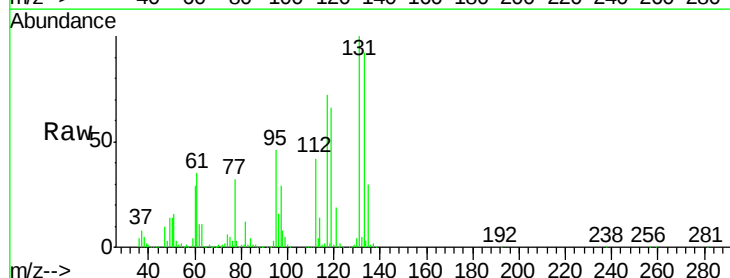
Manual Integrations
APPROVED

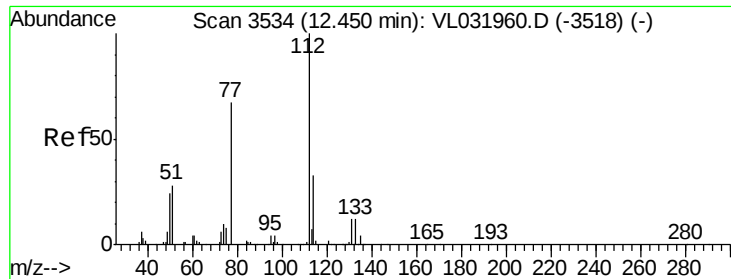
MMDadoda
5/4/2018 5:01:02 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 12.33 ppbv
RT: 12.43 min Scan# 3528
Delta R.T. -0.00 min
Lab File: VL031966.D
Acq: 3 May 2018 15:21

Tgt Ion:131 Resp: 1703930
Ion Ratio Lower Upper
131 100
133 95.6 76.1 114.1
119 113.6 106.3 159.5





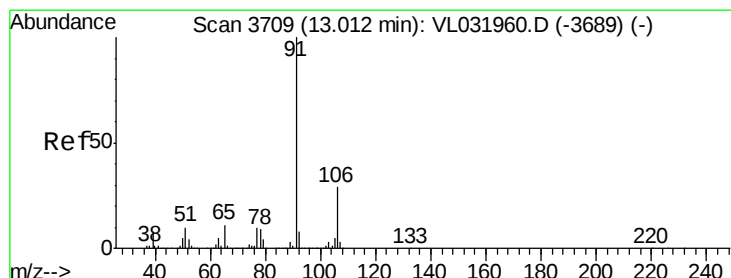
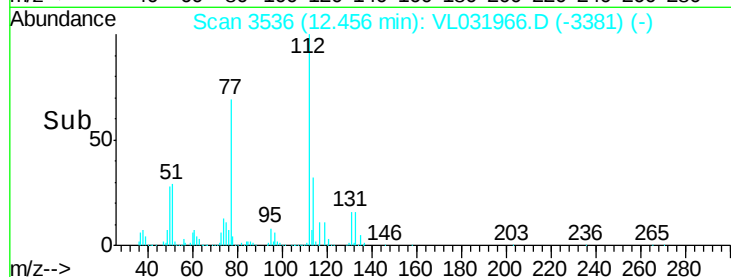
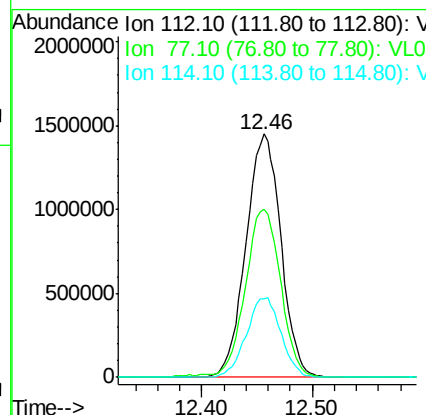
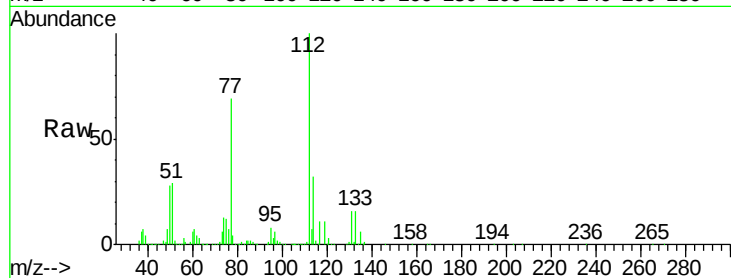
#57
Chlorobenzene
Concen: 12.78 ppbv
RT: 12.46 min Scan# 3536
Delta R.T. -0.00 min
Lab File: VL031966.D
Acq: 3 May 2018 15:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
112	100		
77	69.0	57.0	85.6
114	32.0	28.5	34.9

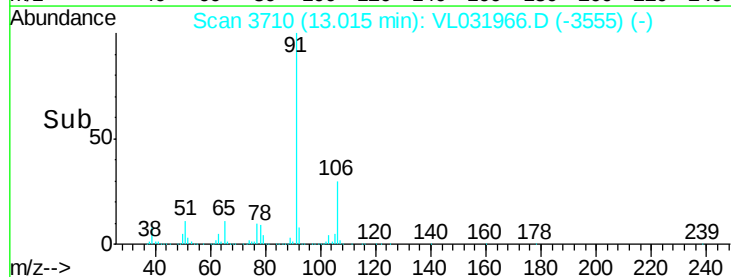
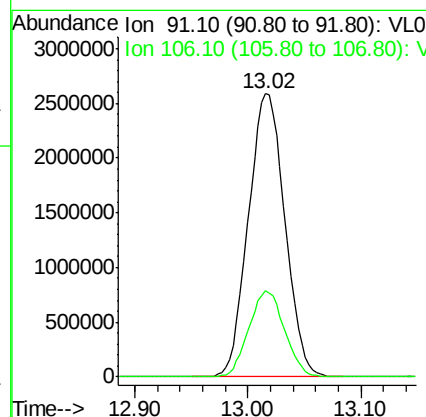
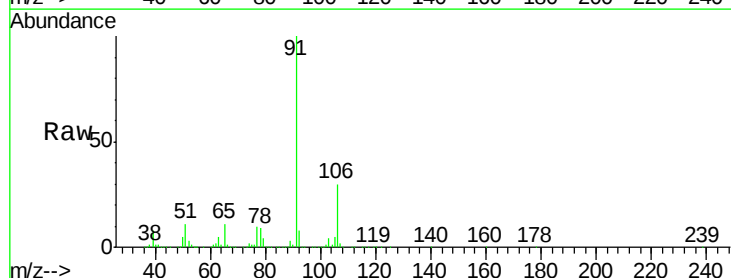
Manual Integrations
APPROVED

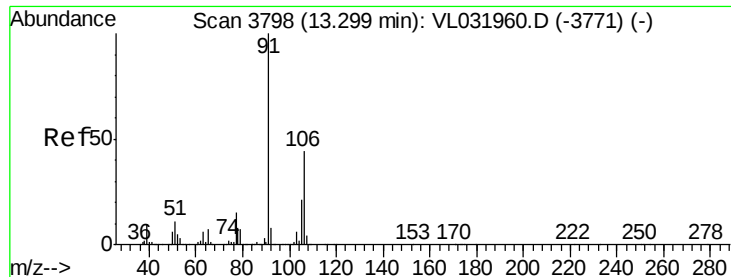
MMDadoda
5/4/2018 5:01:02 PM



#58
Ethyl Benzene
Concen: 14.22 ppbv
RT: 13.02 min Scan# 3710
Delta R.T. -0.00 min
Lab File: VL031966.D
Acq: 3 May 2018 15:21

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.5	23.8	35.6





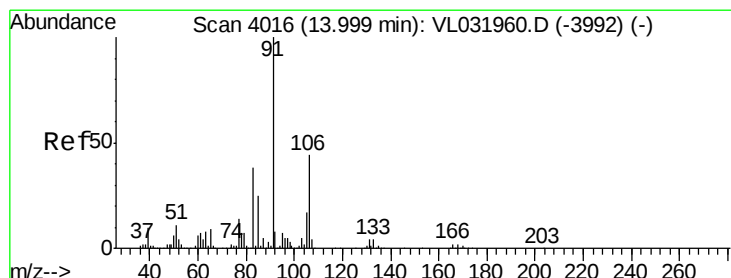
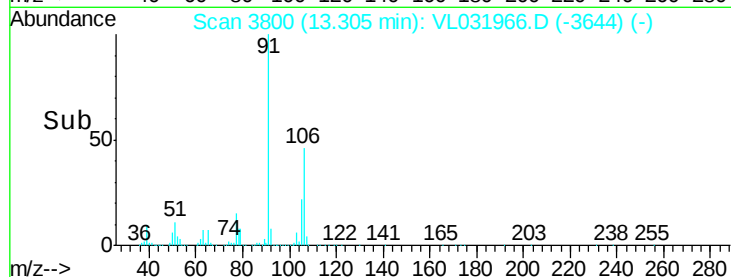
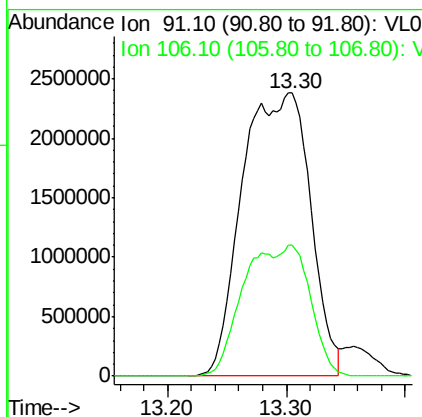
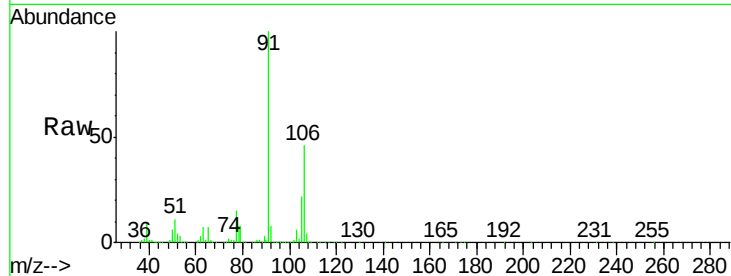
#59
m/p-Xylene
Concen: 26.59 ppbv m
RT: 13.30 min Scan# 3800
Delta R.T. 0.00 min
Lab File: VL031966.D
Acq: 3 May 2018 15:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 91 Resp: 9418970
Ion Ratio Lower Upper
91 100
106 45.2 35.5 53.3

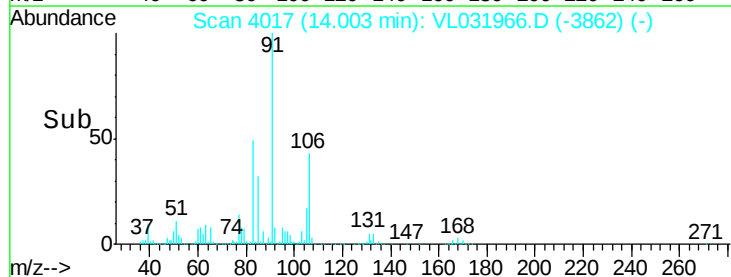
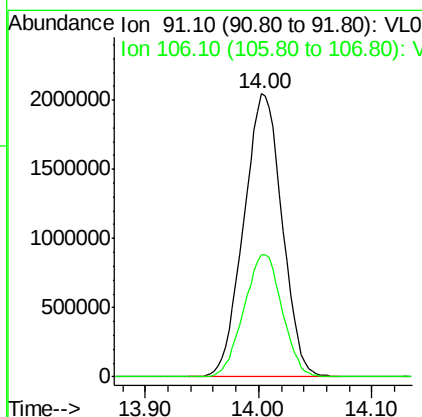
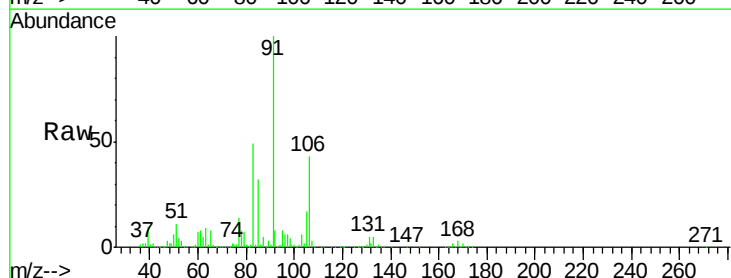
Manual Integrations
APPROVED

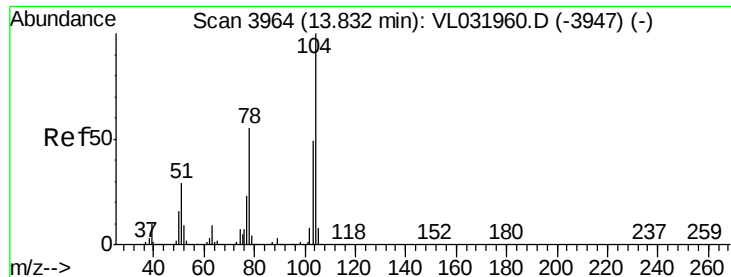
MMDadoda
5/4/2018 5:01:02 PM



#60
o-Xylene
Concen: 13.62 ppbv
RT: 14.00 min Scan# 4017
Delta R.T. -0.00 min
Lab File: VL031966.D
Acq: 3 May 2018 15:21

Tgt Ion: 91 Resp: 4820936
Ion Ratio Lower Upper
91 100
106 43.2 21.3 63.9





#61

Stvrene

Concen: 17.60 ppbv

RT: 13.84 min Scan# 3965

Delta R.T. -0.00 min

Lab File: VL031966.D

Acq: 3 May 2018 15:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:104 Resp: 1186549

Ion Ratio Lower Upper

104 100

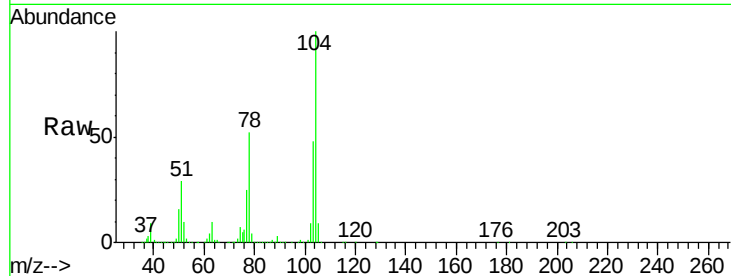
78 54.1 44.4 66.6

103 47.0 37.9 56.9

Manual Integrations
APPROVED

MMDadoda

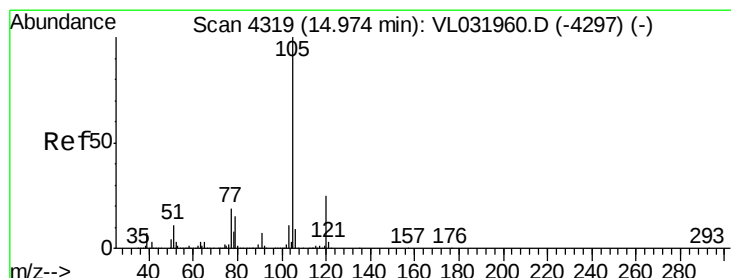
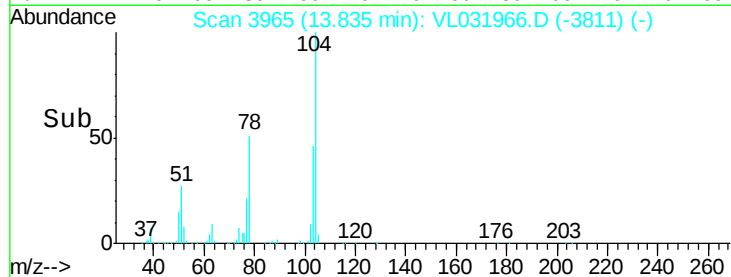
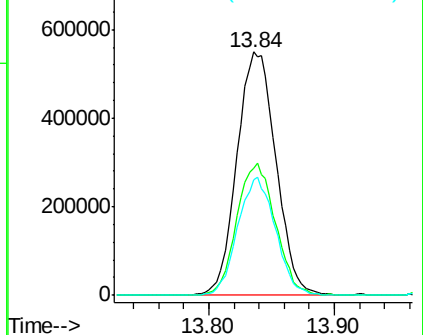
5/4/2018 5:01:02 PM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 13.58 ppbv

RT: 14.98 min Scan# 4321

Delta R.T. -0.00 min

Lab File: VL031966.D

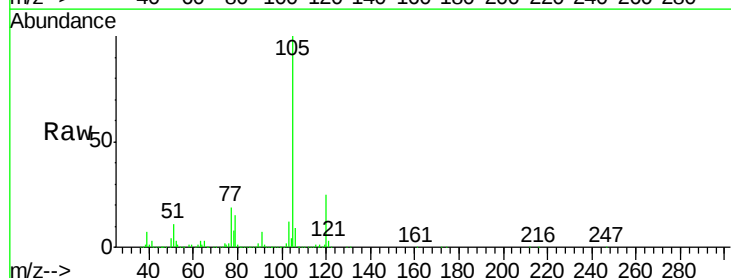
Acq: 3 May 2018 15:21

Tgt Ion:105 Resp: 6174013

Ion Ratio Lower Upper

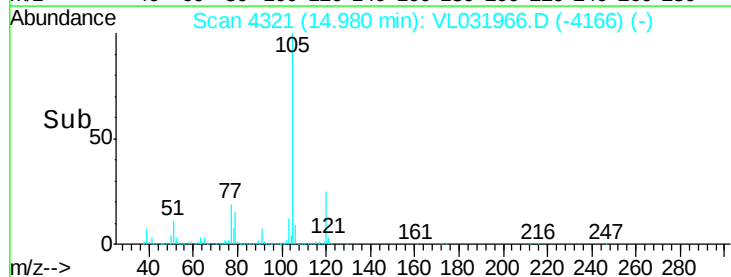
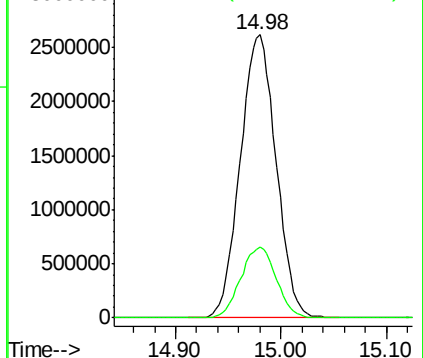
105 100

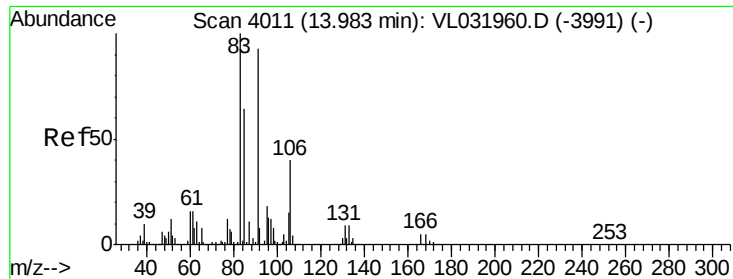
120 24.9 19.4 29.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 11.98 ppbv

RT: 13.99 min Scan# 4013

Delta R.T. -0.00 min

Lab File: VL031966.D

Acq: 3 May 2018 15:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 83 Resp: 3260614

Ion Ratio Lower Upper

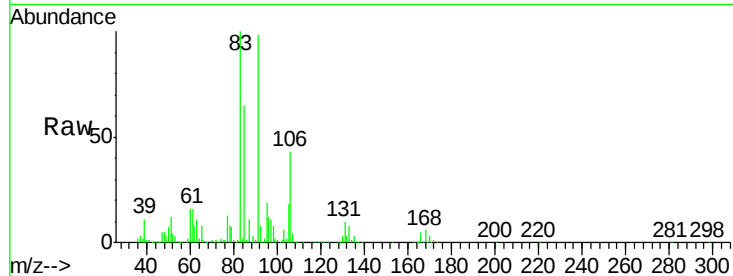
83 100

131 9.7 4.9 14.6

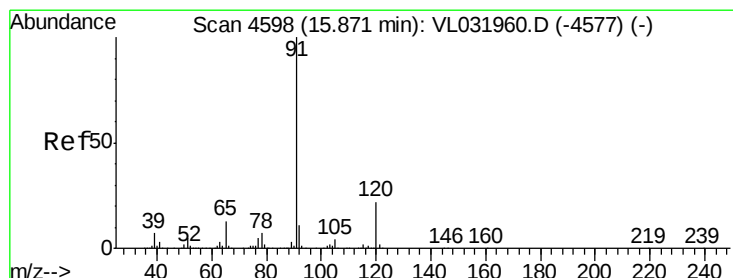
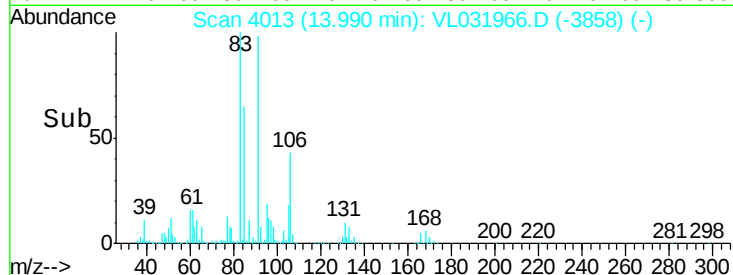
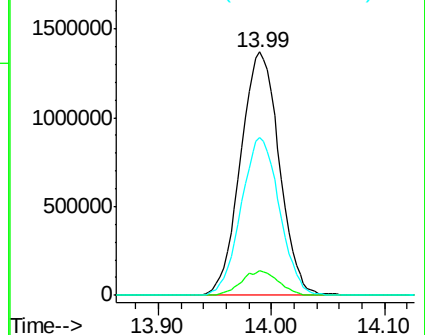
85 64.5 32.2 96.6

Manual Integrations
APPROVED

MMDadoda
5/4/2018 5:01:02 PM



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 14.34 ppbv

RT: 15.87 min Scan# 4599

Delta R.T. -0.00 min

Lab File: VL031966.D

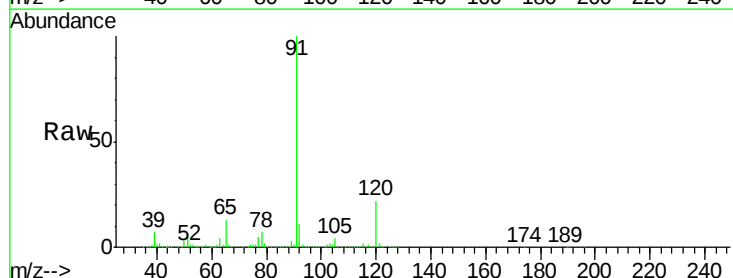
Acq: 3 May 2018 15:21

Tgt Ion:120 Resp: 1585866

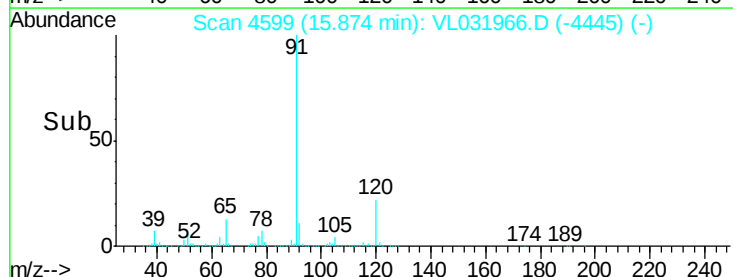
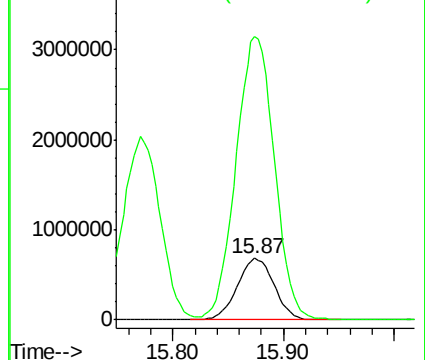
Ion Ratio Lower Upper

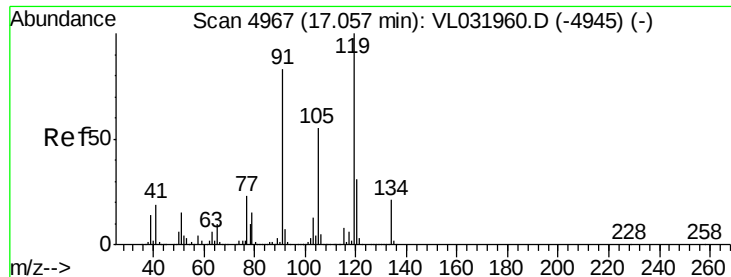
120 100

91 480.9 393.7 590.5



Abundance Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0





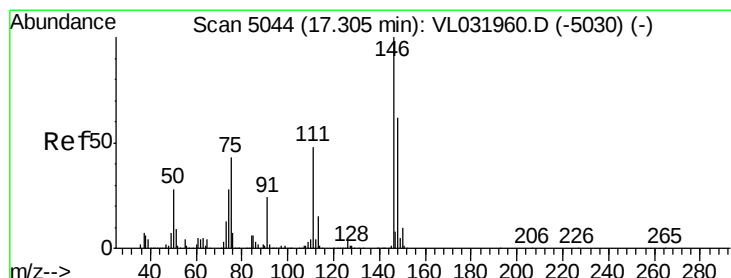
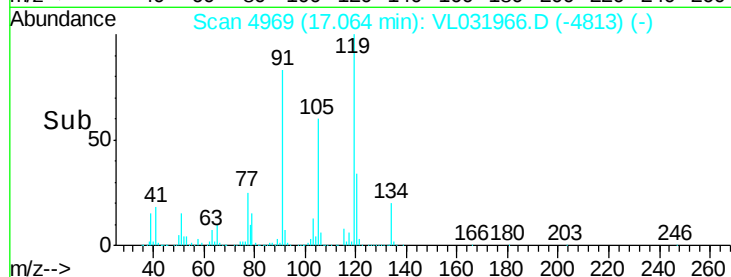
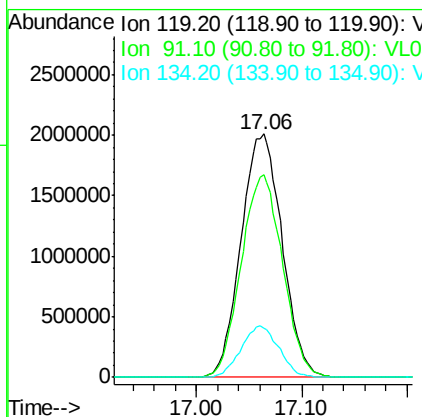
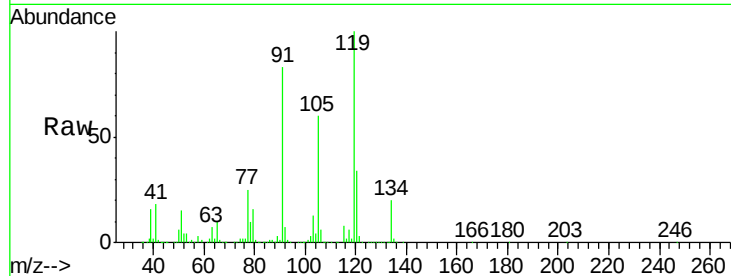
#65
tert-Butylbenzene
Concen: 13.91 ppbv
RT: 17.06 min Scan# 4969
Delta R.T. 0.00 min
Lab File: VL031966.D
Acq: 3 May 2018 15:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:119 Resp: 5442709
Ion Ratio Lower Upper
119 100
91 83.9 69.4 104.0
134 19.5 15.4 23.2

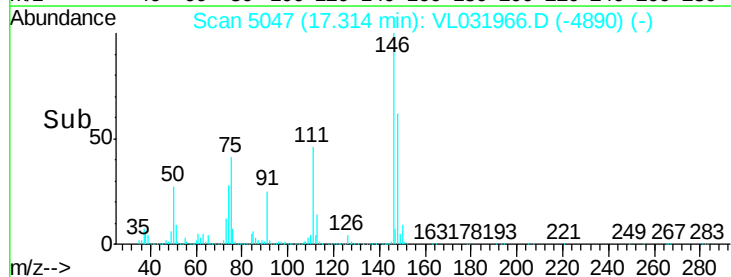
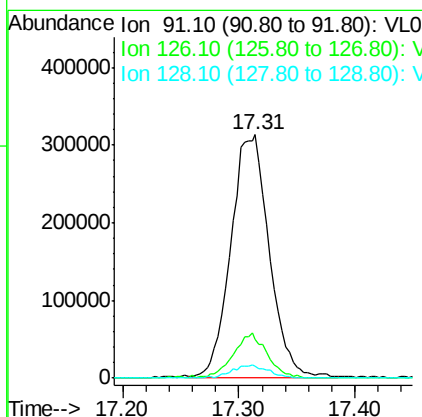
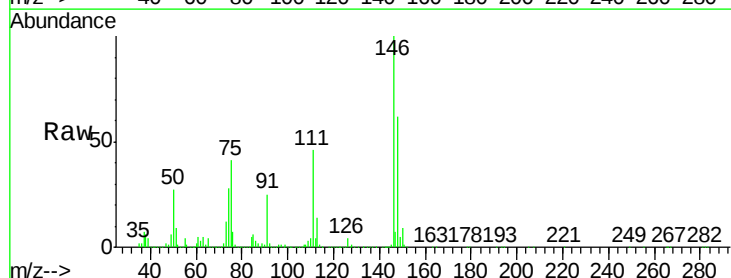
Manual Integrations
APPROVED

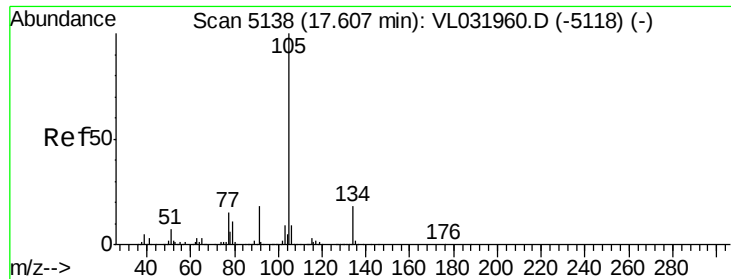
MMDadoda
5/4/2018 5:01:02 PM



#66
Benzyl Chloride
Concen: 20.54 ppbv m
RT: 17.31 min Scan# 5047
Delta R.T. 0.01 min
Lab File: VL031966.D
Acq: 3 May 2018 15:21

Tgt Ion: 91 Resp: 723992
Ion Ratio Lower Upper
91 100
126 16.7 12.6 19.0
128 5.3 4.0 6.0





#67

sec-Butylbenzene

Concen: 13.90 ppbv

RT: 17.61 min Scan# 5140

Delta R.T. 0.00 min

Lab File: VL031966.D

Acq: 3 May 2018 15:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 7834159

Ion Ratio Lower Upper

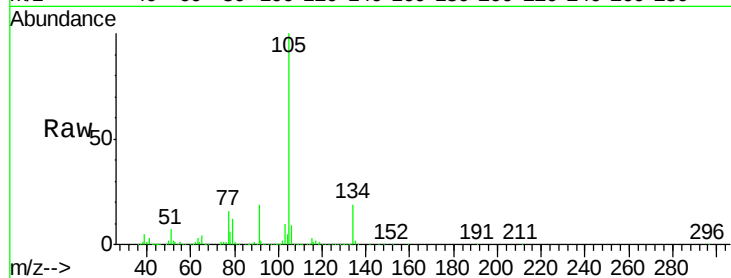
105 100

134 18.0 14.2 21.2

Manual Integrations
APPROVED

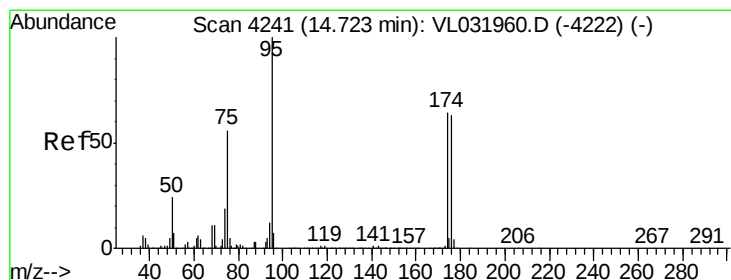
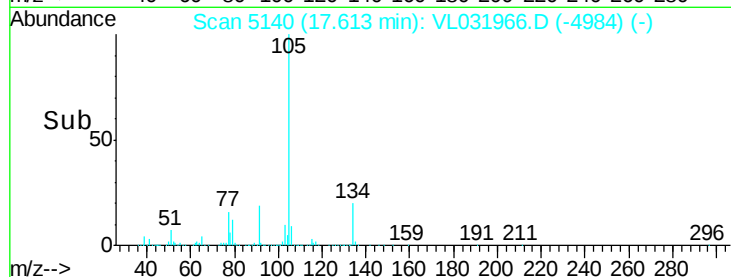
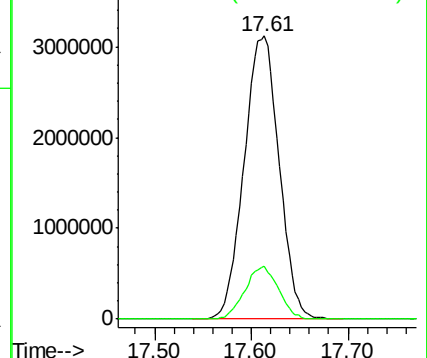
MMDadoda

5/4/2018 5:01:02 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: 9.44 ppbv

RT: 14.73 min Scan# 4243

Delta R.T. -0.00 min

Lab File: VL031966.D

Acq: 3 May 2018 15:21

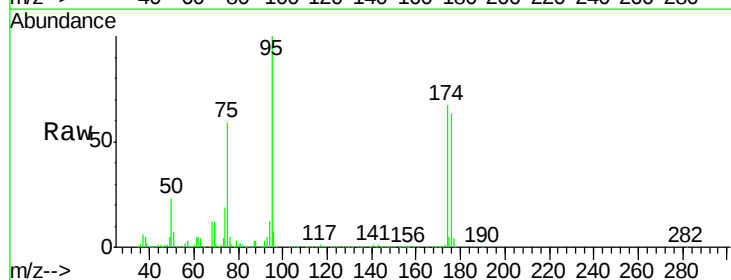
Tgt Ion: 95 Resp: 2228738

Ion Ratio Lower Upper

95 100

174 66.0 52.3 78.5

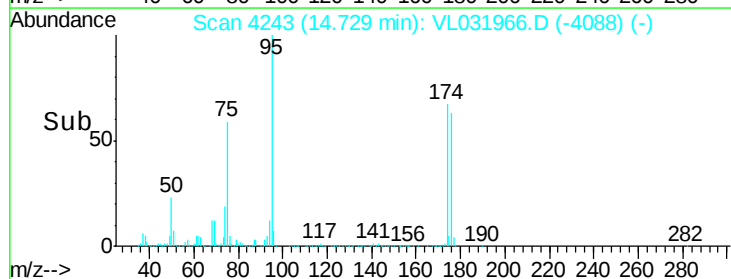
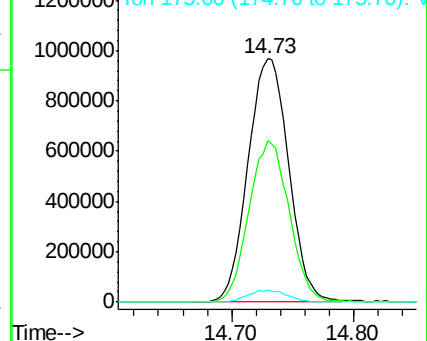
175 4.8 3.9 5.9

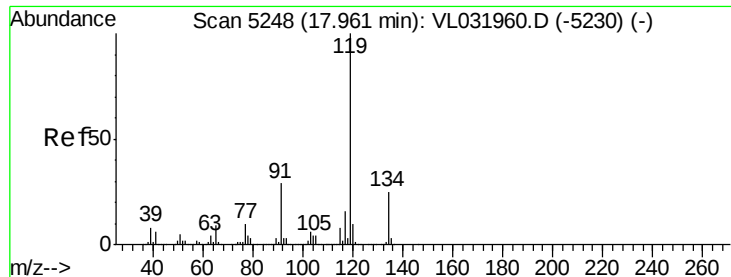


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





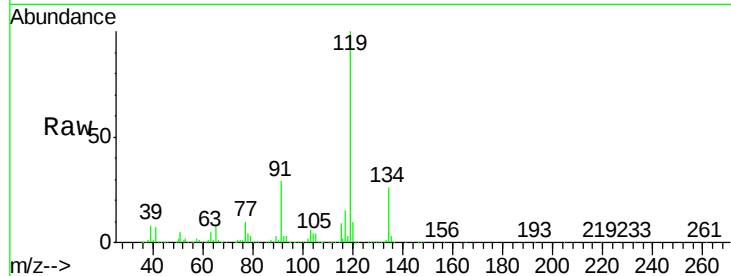
#69
 p-Isopropyltoluene
 Concen: 14.83 ppbv
 RT: 17.97 min Scan# 5250
 Delta R.T. 0.00 min
 Lab File: VL031966.D
 Acq: 3 May 2018 15:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

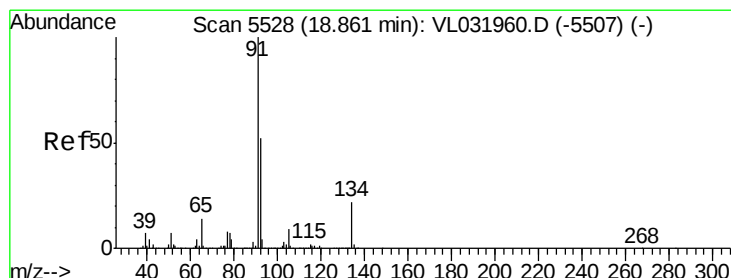
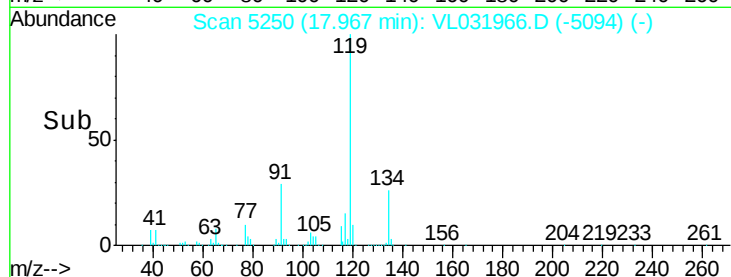
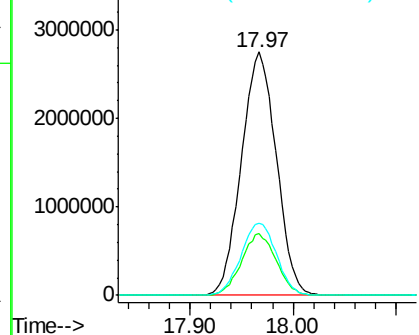
Tot Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.0	30.0
91	30.3	24.9	37.3

Manual Integrations
 APPROVED

MMDadoda
 5/4/2018 5:01:02 PM

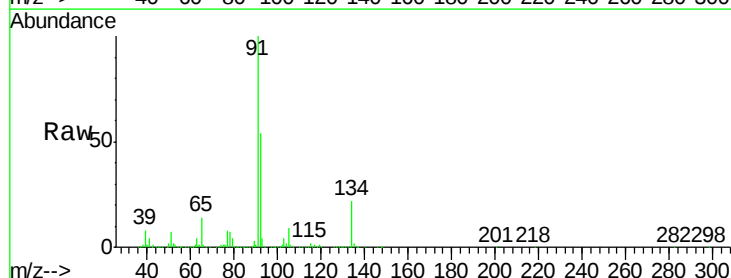


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

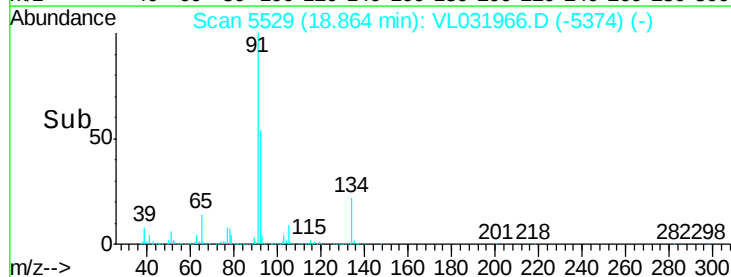
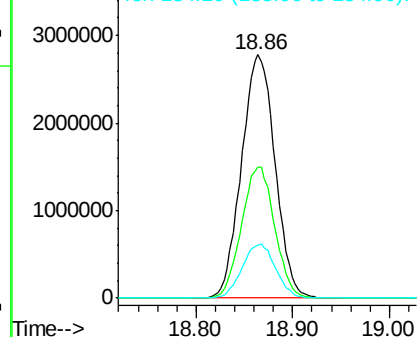


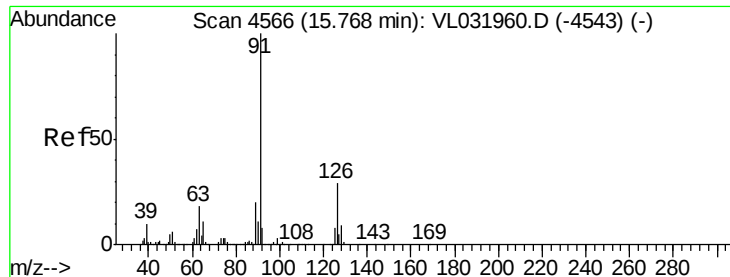
#70
 n-Butylbenzene
 Concen: 14.72 ppbv
 RT: 18.86 min Scan# 5529
 Delta R.T. -0.00 min
 Lab File: VL031966.D
 Acq: 3 May 2018 15:21

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.4	42.2	63.4
134	22.2	17.4	26.0



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





#71

2-Chlorotoluene

Concen: 14.51 ppbv

RT: 15.77 min Scan# 4567

Delta R.T. 0.00 min

Lab File: VL031966.D

Acq: 3 May 2018 15:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 4769816

Ion Ratio Lower Upper

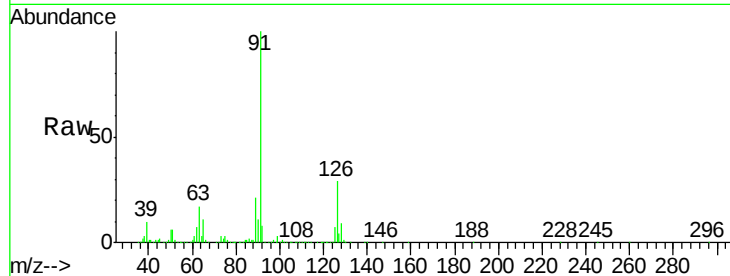
91 100

126 29.8 11.6 46.2

Manual Integrations
APPROVED

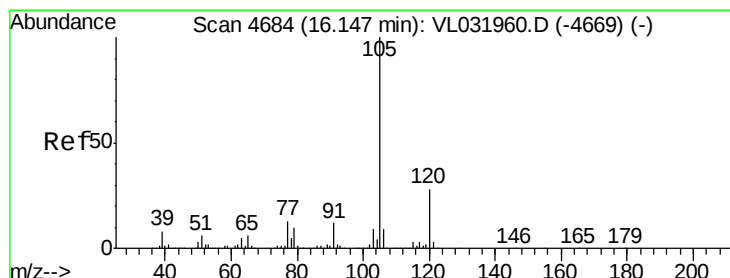
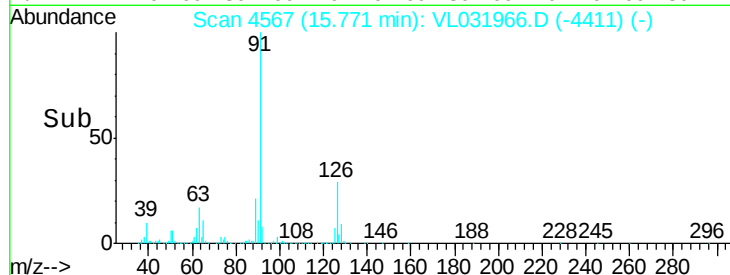
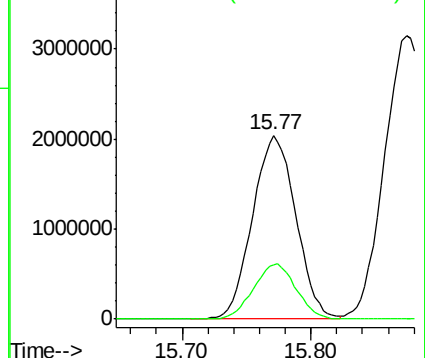
MMDadoda

5/4/2018 5:01:02 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 14.54 ppbv

RT: 16.15 min Scan# 4685

Delta R.T. -0.00 min

Lab File: VL031966.D

Acq: 3 May 2018 15:21

Tgt Ion:105 Resp: 5262363

Ion Ratio Lower Upper

105 100

120 28.6 22.7 34.1

91 12.9 10.6 16.0

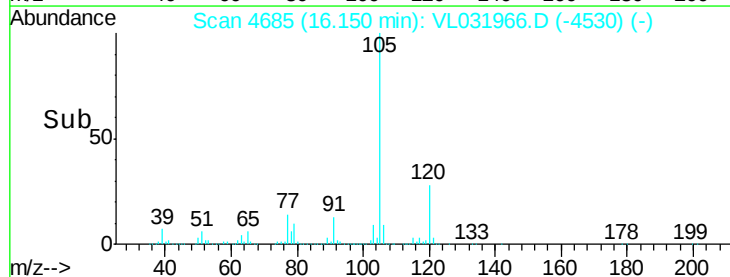
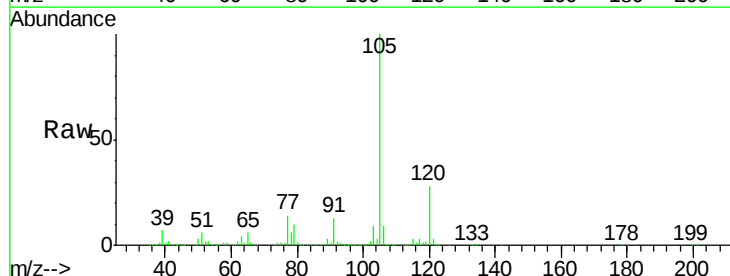
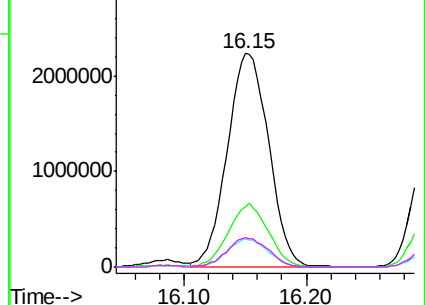
77 14.2 11.4 17.0

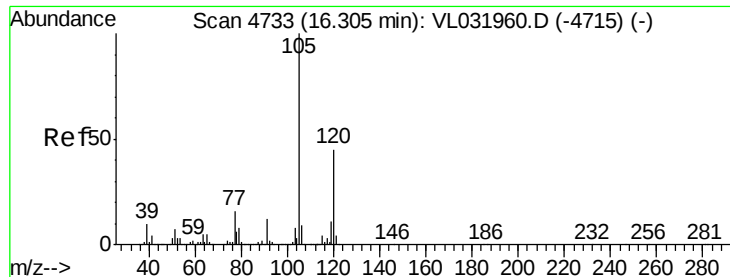
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





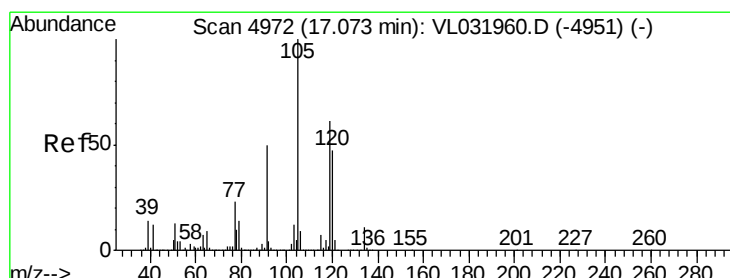
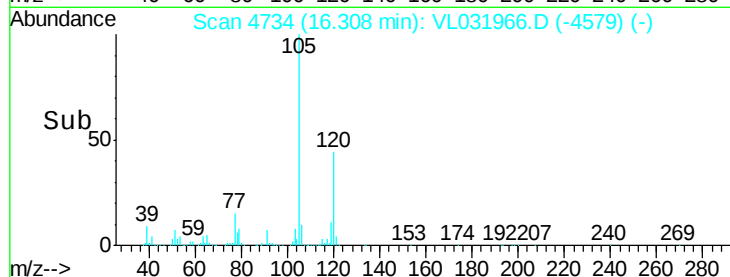
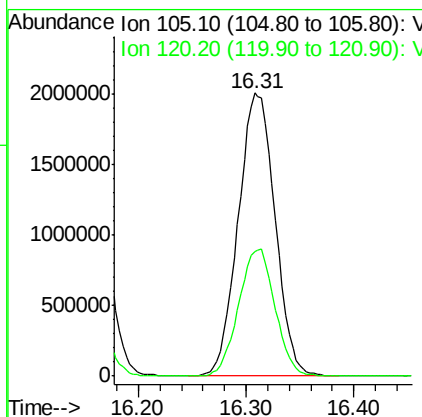
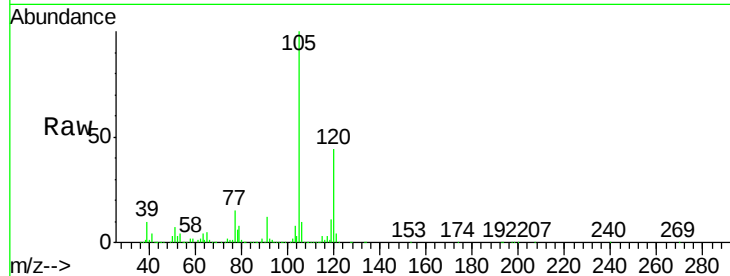
#73
 1,3,5-Trimethylbenzene
 Concen: 14.33 ppbv
 RT: 16.31 min Scan# 4734
 Delta R.T. -0.00 min
 Lab File: VL031966.D
 Acq: 3 May 2018 15:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:105 Resp: 4746377
 Ion Ratio Lower Upper
 105 100
 120 44.0 35.3 52.9

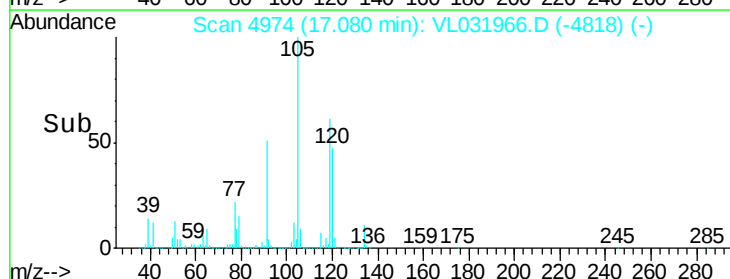
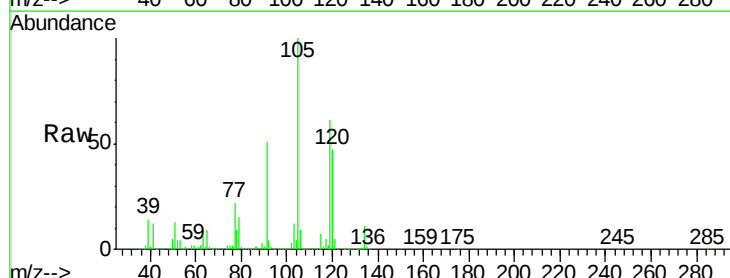
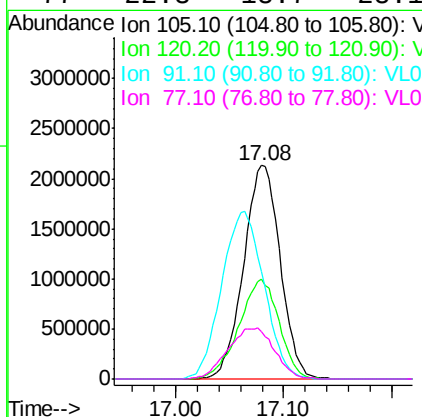
Manual Integrations
 APPROVED

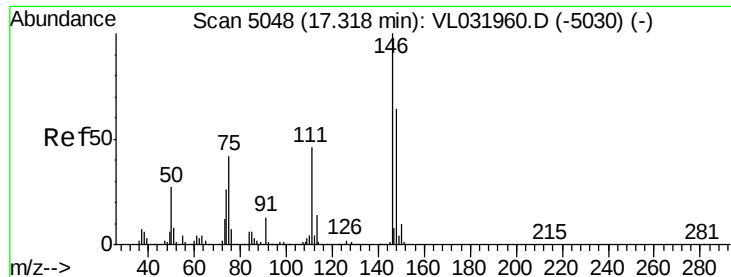
MMDadoda
 5/4/2018 5:01:02 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 13.61 ppbv
 RT: 17.08 min Scan# 4974
 Delta R.T. 0.00 min
 Lab File: VL031966.D
 Acq: 3 May 2018 15:21

Tgt Ion:105 Resp: 5033368
 Ion Ratio Lower Upper
 105 100
 120 46.8 37.0 55.4
 91 50.4 43.0 64.4
 77 22.3 18.7 28.1





#75

1,3-Dichlorobenzene

Concen: 14.11 ppbv

RT: 17.32 min Scan# 5049

Delta R.T. 0.00 min

Lab File: VL031966.D

Acq: 3 May 2018 15:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 3198986

Ion Ratio Lower Upper

146 100

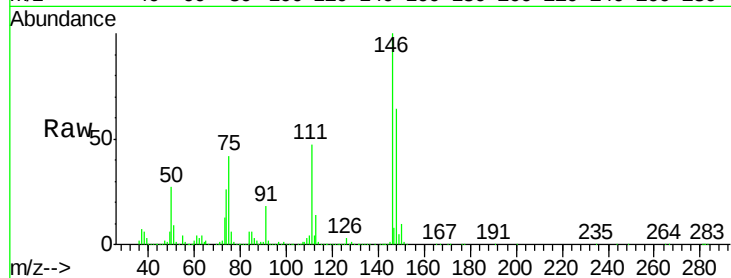
111 47.4 23.8 71.4

148 64.1 32.0 96.2

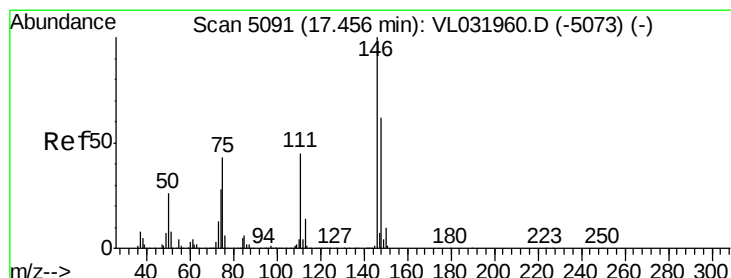
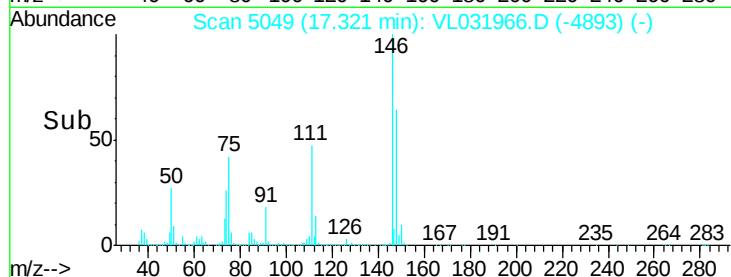
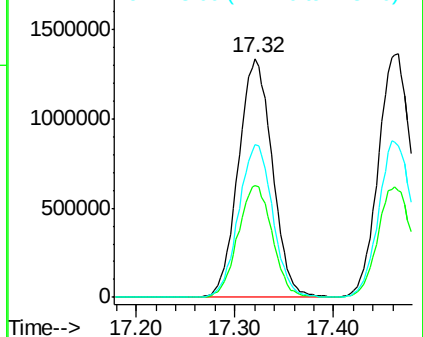
Manual Integrations
APPROVED

MMDadoda

5/4/2018 5:01:02 PM



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 14.60 ppbv

RT: 17.47 min Scan# 5094

Delta R.T. 0.00 min

Lab File: VL031966.D

Acq: 3 May 2018 15:21

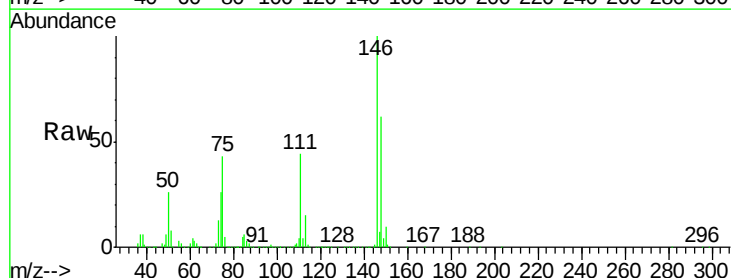
Tgt Ion:146 Resp: 3210799

Ion Ratio Lower Upper

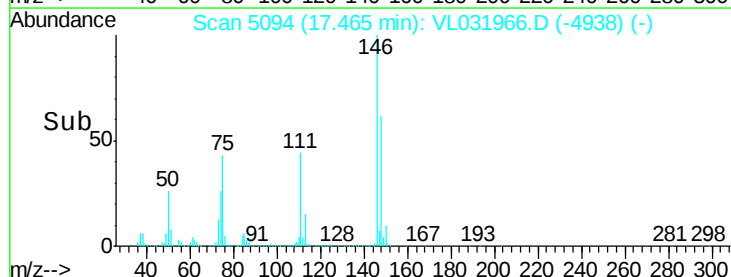
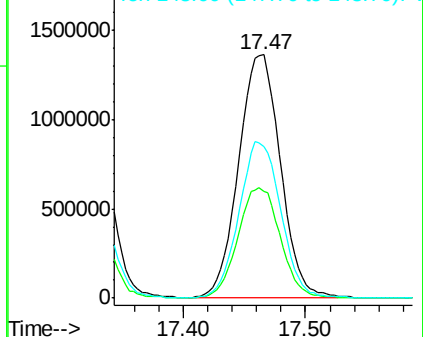
146 100

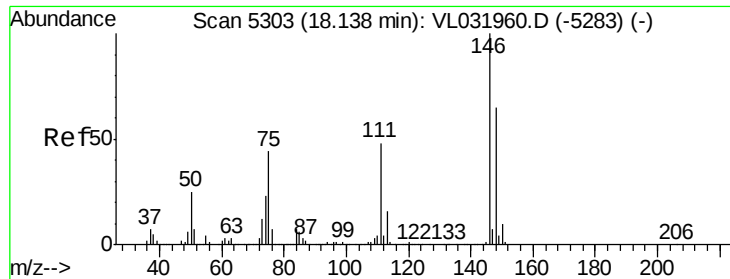
111 46.5 22.9 68.7

148 64.7 32.0 96.0



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V





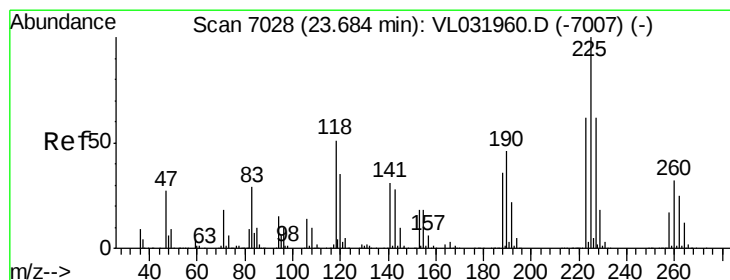
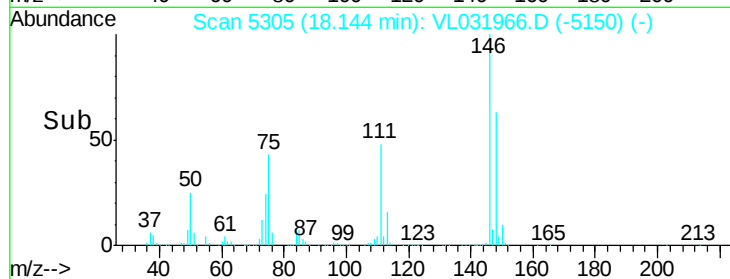
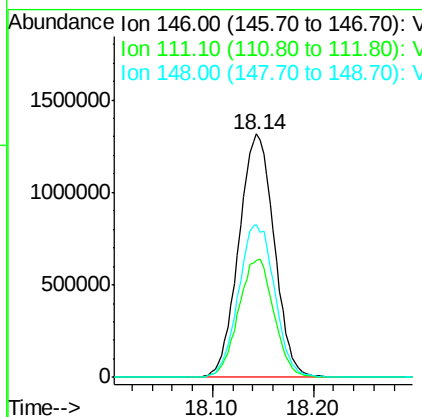
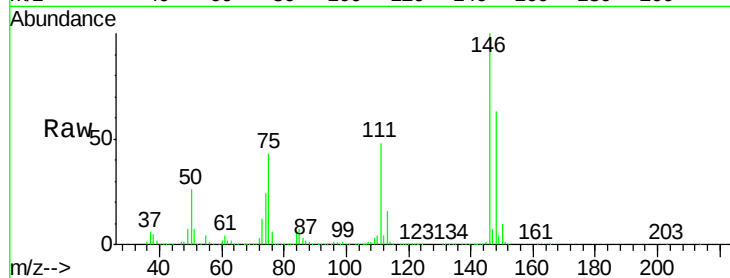
#77
 1,2-Dichlorobenzene
 Concen: 14.31 ppbv
 RT: 18.14 min Scan# 5305
 Delta R.T. -0.00 min
 Lab File: VL031966.D
 Acq: 3 May 2018 15:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.7	24.3	72.8
148	64.3	31.8	95.3

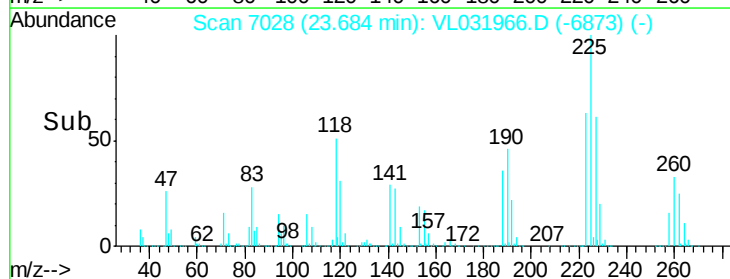
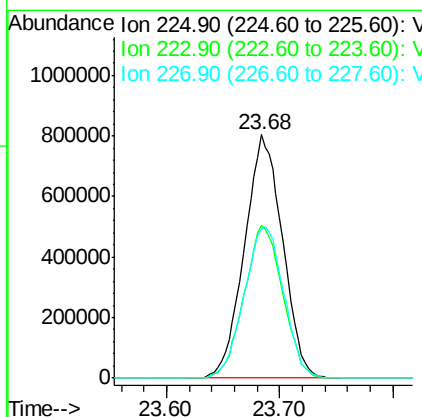
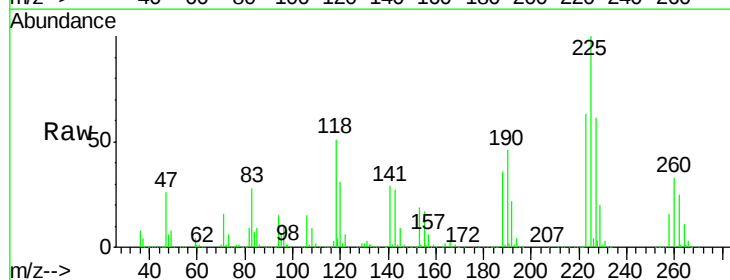
Manual Integrations
 APPROVED

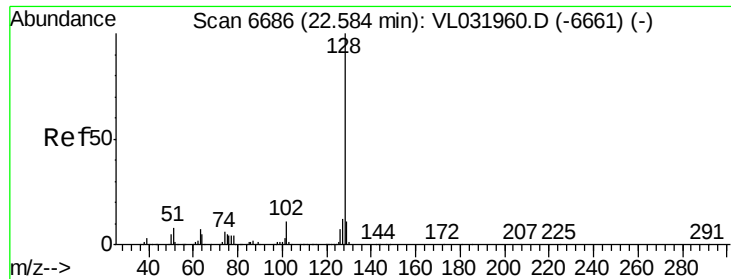
MMDadoda
 5/4/2018 5:01:02 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 21.86 ppbv
 RT: 23.68 min Scan# 7028
 Delta R.T. -0.00 min
 Lab File: VL031966.D
 Acq: 3 May 2018 15:21

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.7	50.6	76.0
227	64.7	52.2	78.4





#79

Naphthalene

Concen: 21.30 ppbv

RT: 22.59 min Scan# 6687

Delta R.T. -0.00 min

Lab File: VL031966.D

Acq: 3 May 2018 15:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:128 Resp: 4433775

Ion Ratio Lower Upper

128 100

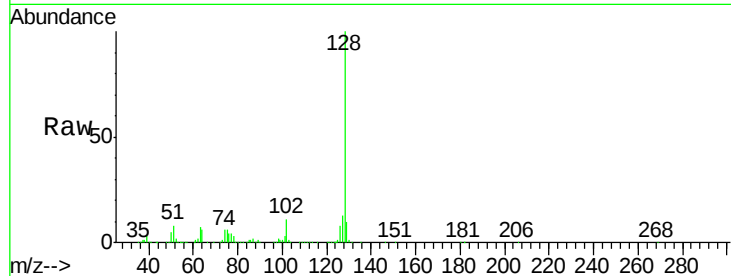
127 13.1 10.2 15.4

129 10.5 9.4 14.2

Manual Integrations
APPROVED

MMDadoda

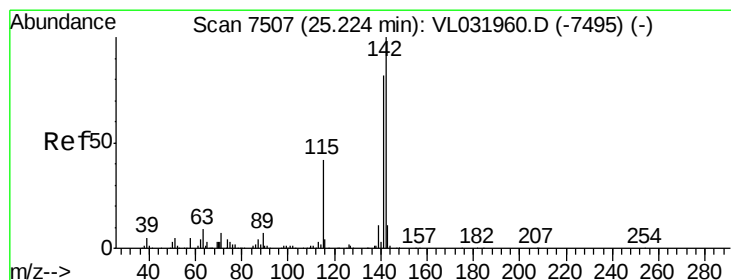
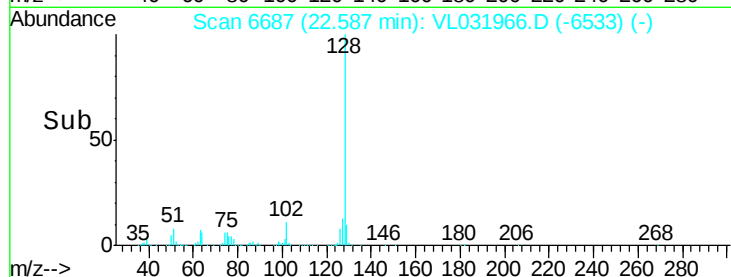
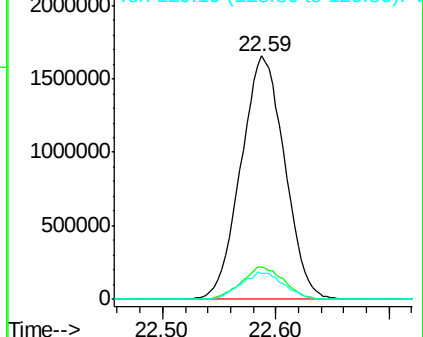
5/4/2018 5:01:02 PM



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 35.24 ppbv

RT: 25.23 min Scan# 7509

Delta R.T. -0.00 min

Lab File: VL031966.D

Acq: 3 May 2018 15:21

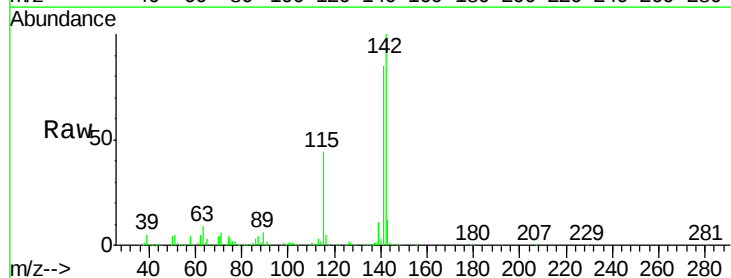
Tgt Ion:142 Resp: 1431765

Ion Ratio Lower Upper

142 100

141 85.0 67.0 100.4

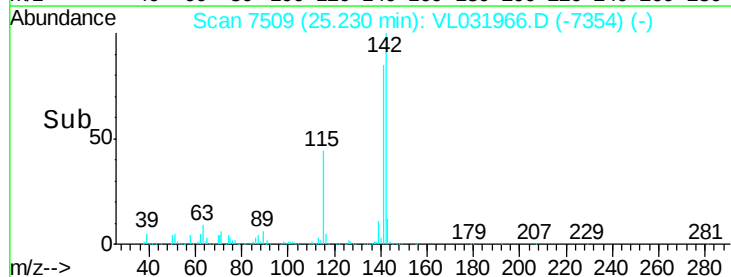
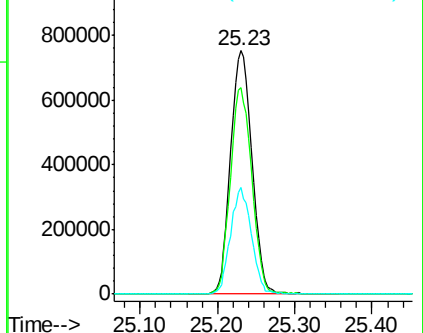
115 42.5 35.3 52.9

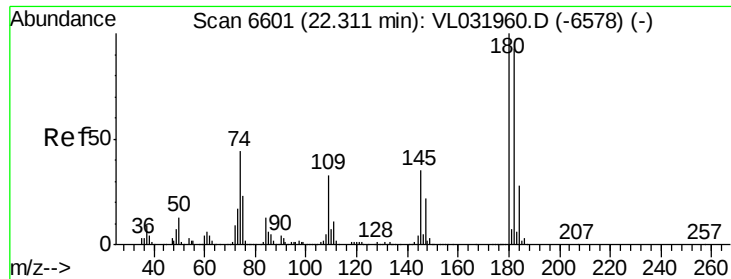


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





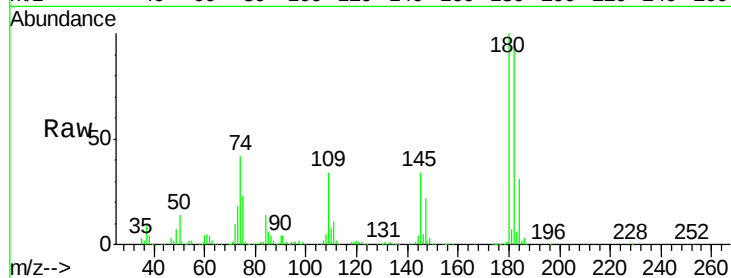
#81
 1,2,4-Trichlorobenzene
 Concen: 19.02 ppbv
 RT: 22.31 min Scan# 6602
 Delta R.T. 0.00 min
 Lab File: VL031966.D
 Acq: 3 May 2018 15:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.3	114.5
184	30.6	24.2	36.2

Manual Integrations
 APPROVED

MMDadoda
 5/4/2018 5:01:02 PM



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

