

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081518\
 Data File : VL032358.D
 Acq On : 15 Aug 2018 19:09
 Operator : SY/AP
 Sample : VL0815ABS02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0815ABS02

Manual Integrations
 APPROVED

MMDadoda
 8/17/2018 2:06:39 PM

Quant Time: Aug 16 06:46:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 1
 QLast Update : Wed Aug 15 14:58:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.82	49	2382087	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.36	114	4983019	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.31	117	4838398m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.65	95	3672072	9.95	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.50%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.11	85	2307440	12.15	ppbv	100
3) Chlorodifluoromethane	3.05	51	2013609	9.12	ppbv	100
4) Chloromethane	3.21	50	1228867	9.36	ppbv	98
5) Vinyl Chloride	3.33	62	1194142	9.54	ppbv	100
6) Bromomethane	3.56	94	639704	9.53	ppbv	98
7) Chloroethane	3.64	64	413965	9.43	ppbv	96
8) Dichlorotetrafluoroethane	3.26	85	2367656	8.80	ppbv	99
9) Propene	3.07	41	1005121	10.64	ppbv	99
10) Heptane	8.31	43	2931069	10.30	ppbv	100
11) Trichlorofluoromethane	4.05	101	2423702	9.10	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.60	101	1632199	9.10	ppbv	99
13) Ethanol	3.69	45	261418	10.78	ppbv	96
14) Bromoethene	3.83	108	710703	9.16	ppbv	99
15) Acetone	3.95	43	1913246	8.45	ppbv	100
16) 1,3-Butadiene	3.40	39	1025675	10.98	ppbv	86
17) tert-Butyl alcohol	4.40	59	382330	10.07	ppbv	100
18) 1,1-Dichloroethene	4.40	96	800017	9.57	ppbv	95
19) Isopropyl Alcohol	4.07	45	1564749	10.27	ppbv	99
20) Methylene Chloride	4.46	84	711358	8.32	ppbv	95
21) Allyl Chloride	4.53	41	1448269	10.14	ppbv	100
22) trans-1,2-Dichloroethene	5.02	96	850901	10.09	ppbv	98
23) Vinyl Acetate	5.21	43	3979792	10.18	ppbv	99
24) 1,1-Dichloroethane	5.14	63	2751383	9.75	ppbv	99
25) Ethyl Acetate	5.83	43	4673116	9.63	ppbv	100
26) Hexane	5.84	57	2131725	9.86	ppbv	100
27) Carbon Disulfide	4.67	76	2047694	10.15	ppbv	100
28) Methyl tert-Butyl Ether	5.17	73	3055095	10.65	ppbv	100
29) Chloroform	5.91	83	3001826	9.47	ppbv	100
30) Cyclohexane	7.31	84	1752747	10.64	ppbv	99
31) cis-1,2-Dichloroethene	5.70	61	2160738	10.21	ppbv	99
32) 1,1,1-Trichloroethane	6.68	97	2828181	9.17	ppbv	99
34) 2-Butanone	5.38	43	3315603	9.78	ppbv	98
35) Carbon Tetrachloride	7.20	117	2788962	9.49	ppbv	96
36) Benzene	7.07	78	4108982	9.73	ppbv	98
37) 1,2-Dichloroethane	6.47	62	2344645	9.15	ppbv	100
38) Trichloroethene	8.03	130	1415662	9.55	ppbv	99
39) 1,2-Dichloropropane	7.80	63	1709816	9.69	ppbv	98
40) 1,4-Dioxane	8.02	88	582625	10.87	ppbv	99
41) Tetrahydrofuran	6.21	42	1921155	10.55	ppbv	99
42) Bromodichloromethane	7.99	83	3248591	9.68	ppbv	99
43) Methyl Methacrylate	8.21	69	1777197	10.56	ppbv	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081518\
 Data File : VL032358.D
 Acq On : 15 Aug 2018 19:09
 Operator : SY/AP
 Sample : VL0815ABS02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0815ABS02

Manual Integrations
 APPROVED

MMDadoda
 8/17/2018 2:06:39 PM

Quant Time: Aug 16 06:46:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 15 14:58:02 2018
 QLast Update : Wed Aug 15 14:58:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.06	57	7401668	9.72	ppbv	100
45) t-1,3-Dichloropropene	9.49	75	2413607	11.34	ppbv	100
46) cis-1,3-Dichloropropene	8.90	75	2839128	11.12	ppbv	99
47) 1,1,2-Trichloroethane	9.68	97	1787703	9.20	ppbv	98
48) Dibromochloromethane	10.52	129	2541843	9.79	ppbv	99
49) Bromoform	13.28	173	2107700	9.77	ppbv	99
50) 4-Methyl-2-Pentanone	8.94	43	4965729	10.14	ppbv	100
51) 2-Hexanone	10.34	43	3702996	10.77	ppbv	100
52) Tetrachloroethene	11.45	164	1214091	9.74	ppbv	96
53) Toluene	10.02	91	4881269	10.54	ppbv	100
54) 1,2-Dibromoethane	10.83	107	2430005	9.74	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.35	131	1820145	9.09	ppbv	99
57) Chlorobenzene	12.38	112	3313102	9.10	ppbv	99
58) Ethyl Benzene	12.94	91	6086617	10.46	ppbv	99
59) m/p-Xylene	13.22	91	9775239m	19.77	ppbv	
60) o-Xylene	13.92	91	4781655	9.84	ppbv	99
61) Styrene	13.76	104	3752514	11.05	ppbv	99
62) Isopropylbenzene	14.90	105	6715933	9.71	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.91	83	3600080	8.81	ppbv	100
64) n-propylbenzene	15.80	120	1766624	9.87	ppbv	100
65) tert-Butylbenzene	16.98	119	5531612	9.36	ppbv	100
66) Benzyl Chloride	17.23	91	3684316	10.53	ppbv	99
67) sec-Butylbenzene	17.53	105	8392922	9.55	ppbv	100
69) p-Isopropyltoluene	17.89	119	6685201	9.94	ppbv	100
70) n-Butylbenzene	18.79	91	7429229	10.07	ppbv	99
71) 2-Chlorotoluene	15.69	91	5392066	10.07	ppbv	100
72) 4-Ethyltoluene	16.07	105	5568181	10.27	ppbv	100
73) 1,3,5-Trimethylbenzene	16.23	105	5371209	10.30	ppbv	99
74) 1,2,4-Trimethylbenzene	17.00	105	5196260	9.37	ppbv	98
75) 1,3-Dichlorobenzene	17.24	146	2963829	8.89	ppbv	100
76) 1,4-Dichlorobenzene	17.38	146	3020814	9.56	ppbv	99
77) 1,2-Dichlorobenzene	18.06	146	2995379	9.40	ppbv	100
78) Hexachloro-1,3-Butadiene	23.61	225	884098	8.27	ppbv	99
79) Naphthalene	22.49	128	5082497	9.80	ppbv	99
80) Naphthalene, 2-methyl-	25.17	142	2137072	19.31	ppbv	99
81) 1,2,4-Trichlorobenzene	22.22	180	2373422	11.06	ppbv	99

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

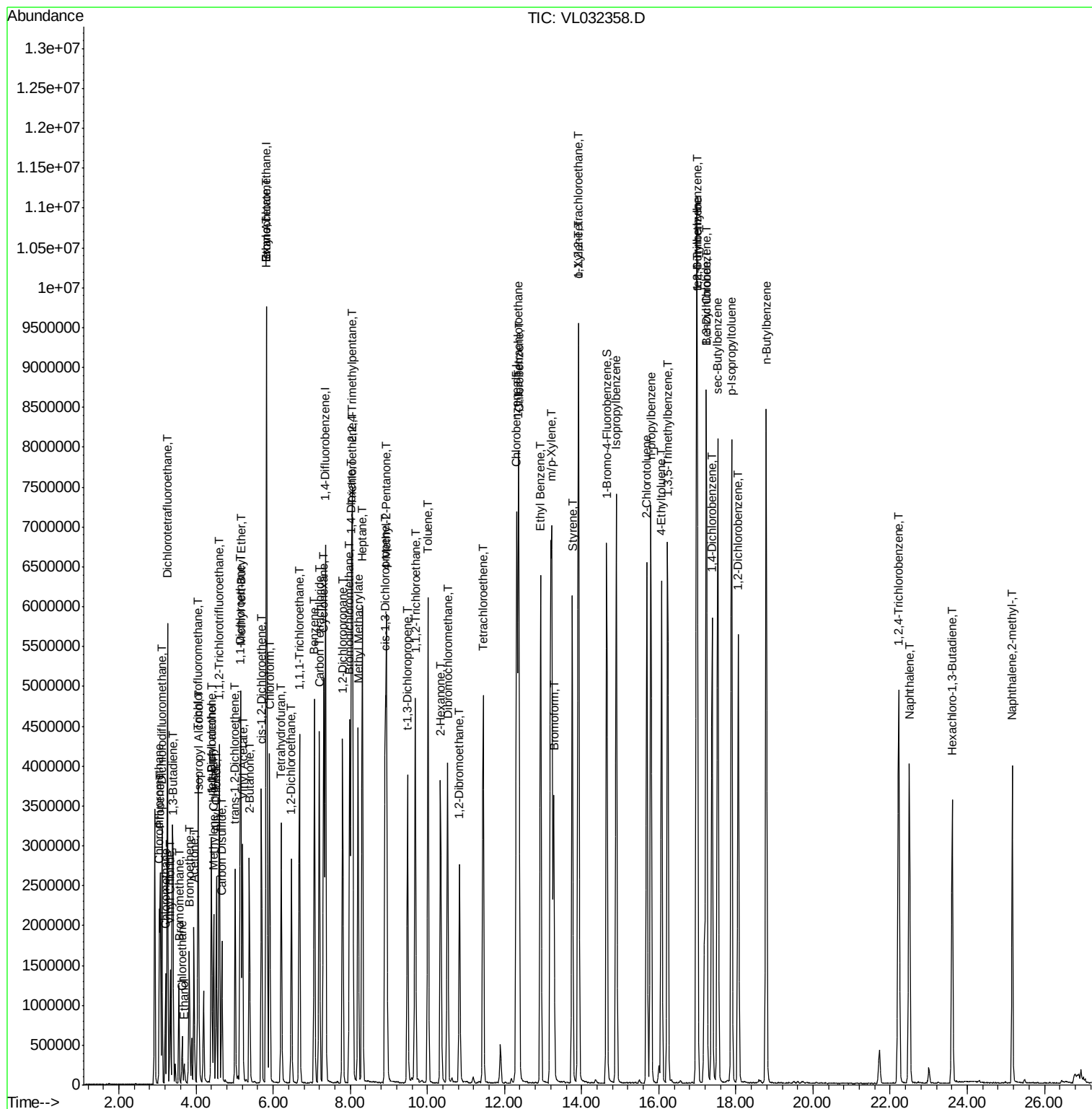
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081518\
Data File : VL032358.D
Acq On : 15 Aug 2018 19:09
Operator : SY/AP
Sample : VL0815ABS02
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

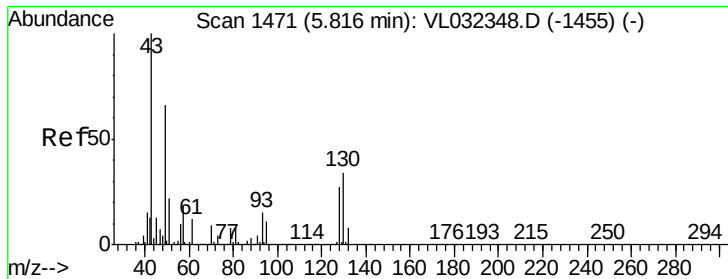
Instrument :
MSVOA_L
ClientSampleId :
VL0815ABS02

Manual Integrations
APPROVED

MMDadoda
8/17/2018 2:06:39 PM

Quant Time: Aug 16 06:46:25 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug
QLast Update : Wed Aug 15 14:58:02 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.82 min Scan# 1472

Delta R.T. 0.00 min

Lab File: VL032358.D

Acq: 15 Aug 2018 19:09

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS02

Tot Ion: 49 Resp: 2382087

Ion Ratio Lower Upper

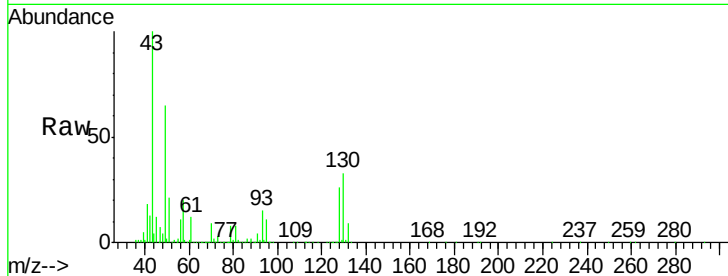
49 100

128 39.9 20.5 61.6

130 51.6 26.2 78.5

Manual Integrations
APPROVED

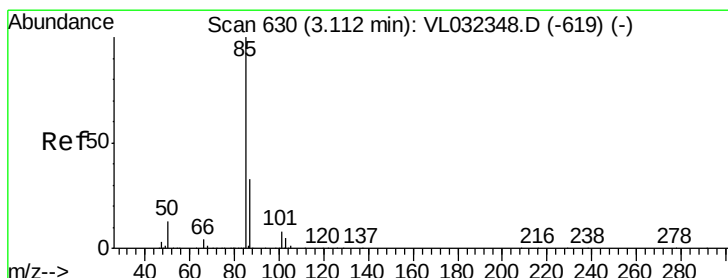
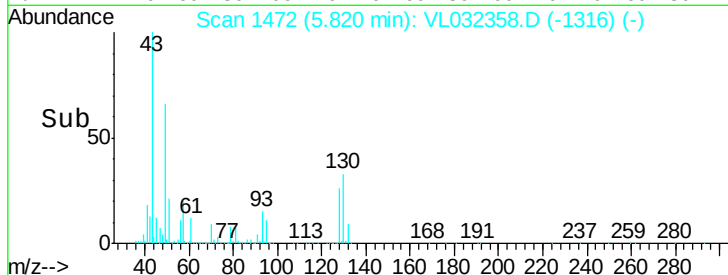
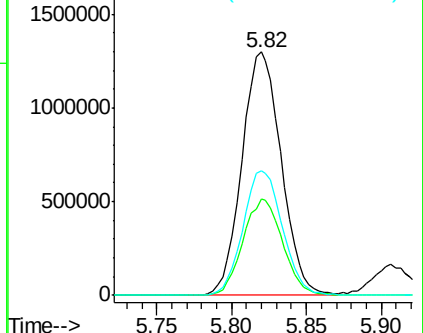
MMDadoda
8/17/2018 2:06:39 PM



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: 12.15 ppbv

RT: 3.11 min Scan# 630

Delta R.T. 0.00 min

Lab File: VL032358.D

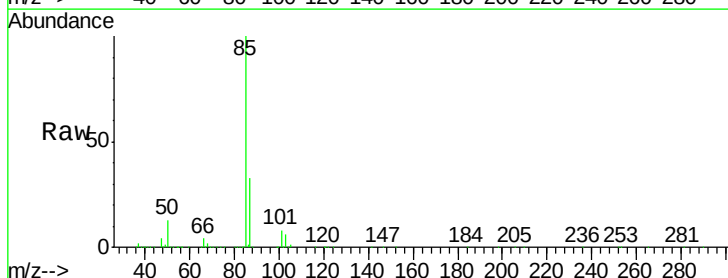
Acq: 15 Aug 2018 19:09

Tgt Ion: 85 Resp: 2307440

Ion Ratio Lower Upper

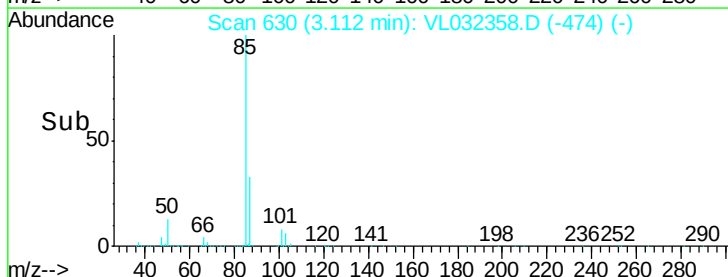
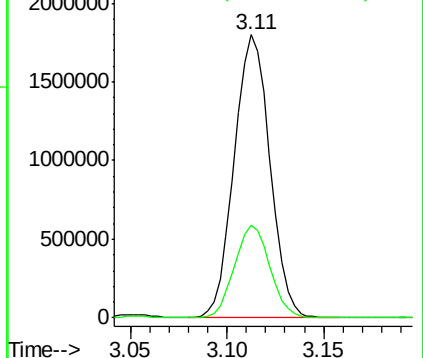
85 100

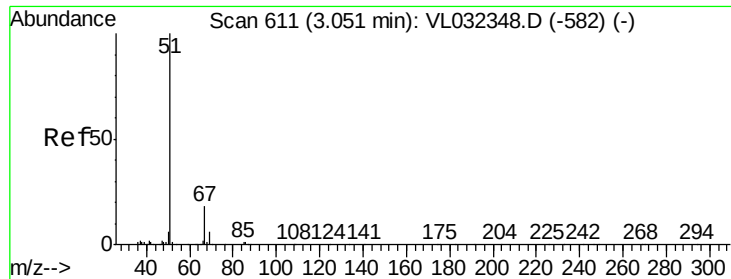
87 32.8 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.12 ppbv

RT: 3.05 min Scan# 611

Delta R.T. -0.00 min

Lab File: VL032358.D

Acq: 15 Aug 2018 19:09

Tot Ion: 51 Resp: 2013609

Ion Ratio Lower Upper

51 100

67 16.9 13.7 20.5

Instrument :

MSVOA_L

ClientSampleId :

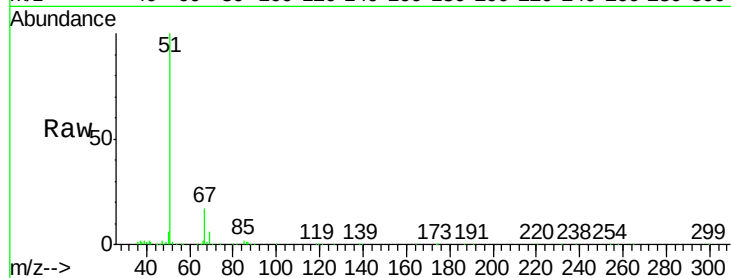
VL0815ABS02

Manual Integrations

APPROVED

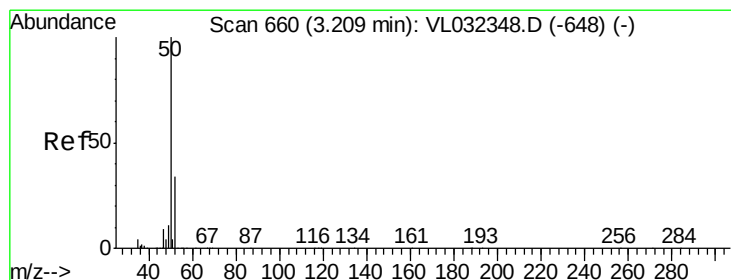
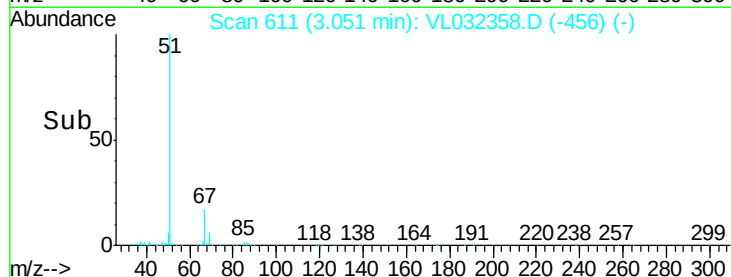
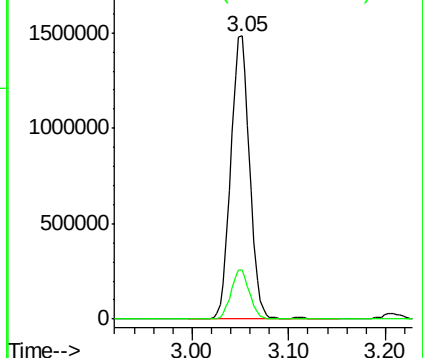
MMDadoda

8/17/2018 2:06:39 PM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.36 ppbv

RT: 3.21 min Scan# 660

Delta R.T. -0.00 min

Lab File: VL032358.D

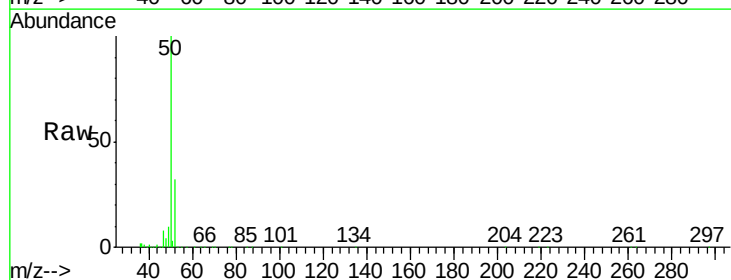
Acq: 15 Aug 2018 19:09

Tgt Ion: 50 Resp: 1228867

Ion Ratio Lower Upper

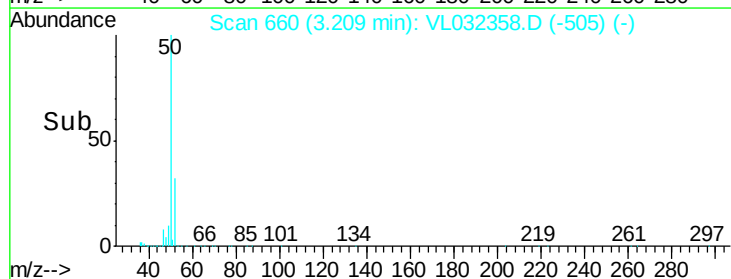
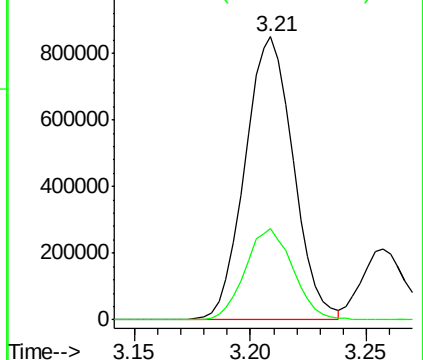
50 100

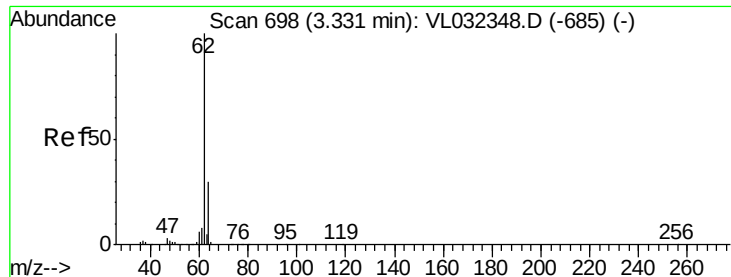
52 32.1 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.54 ppbv

RT: 3.33 min Scan# 698

Delta R.T. -0.00 min

Lab File: VL032358.D

Acq: 15 Aug 2018 19:09

Instrument :

MSVOA_L

ClientSampleID :

VL0815ABS02

Tot Ion: 62 Resp: 1194142

Ion Ratio Lower Upper

62 100

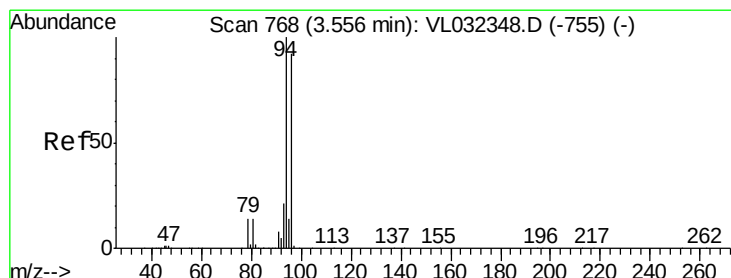
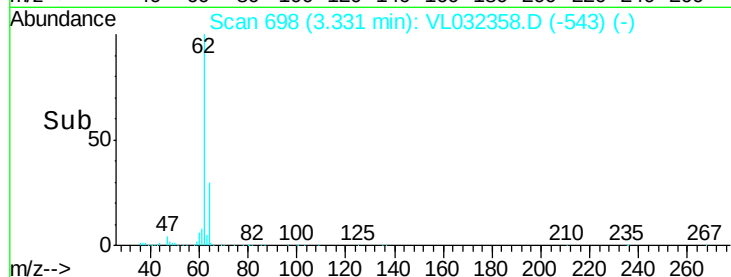
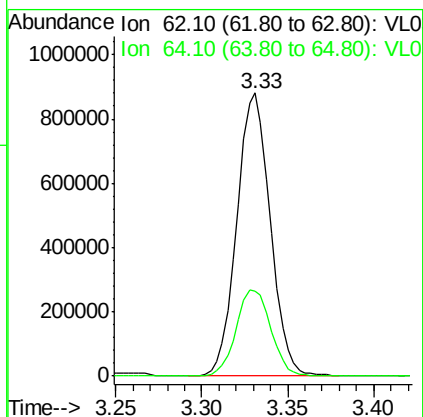
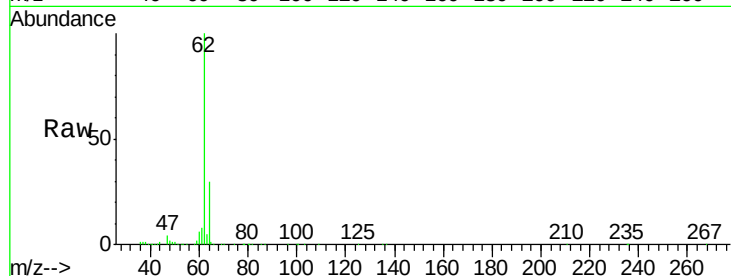
64 30.0 24.2 36.2

Manual Integrations

APPROVED

MMDadoda

8/17/2018 2:06:39 PM



#6

Bromomethane

Concen: 9.53 ppbv

RT: 3.56 min Scan# 768

Delta R.T. -0.00 min

Lab File: VL032358.D

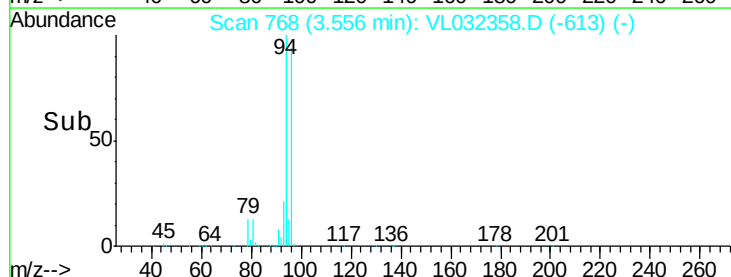
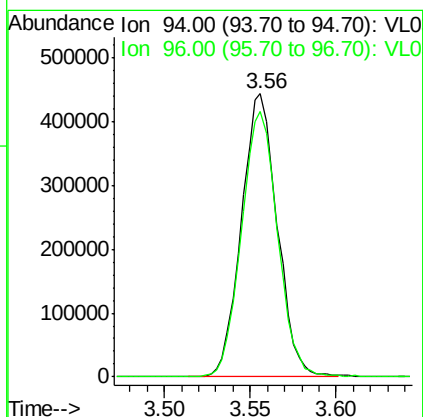
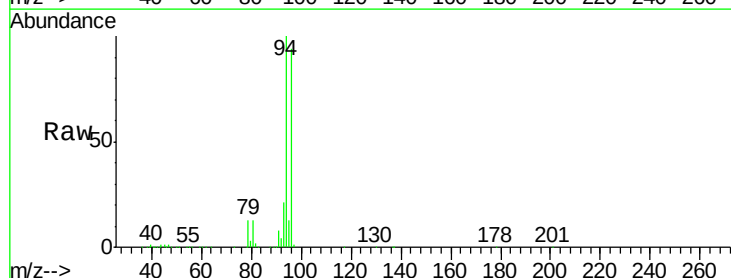
Acq: 15 Aug 2018 19:09

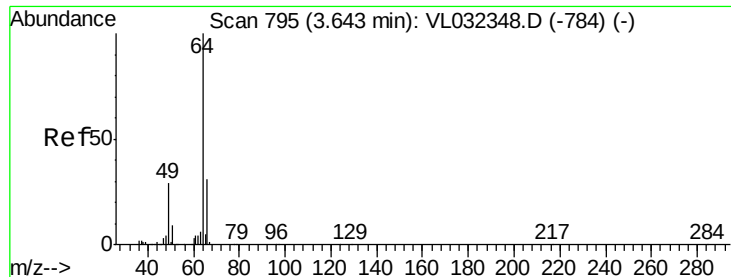
Tgt Ion: 94 Resp: 639704

Ion Ratio Lower Upper

94 100

96 94.0 73.7 110.5





#7

Chloroethane

Concen: 9.43 ppbv

RT: 3.64 min Scan# 795

Delta R.T. -0.00 min

Lab File: VL032358.D

Acq: 15 Aug 2018 19:09

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS02

Tot Ion: 64 Resp: 413965

Ion Ratio Lower Upper

64 100

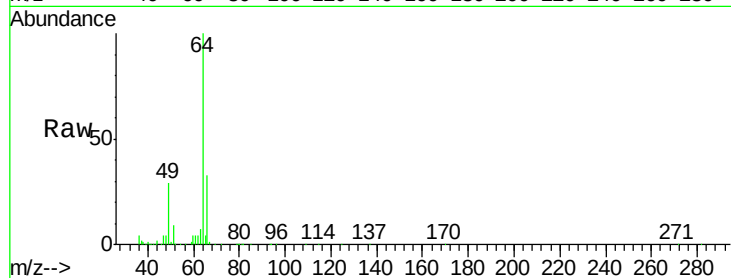
66 32.8 24.6 36.8

Manual Integrations

APPROVED

MMDadoda

8/17/2018 2:06:39 PM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.64

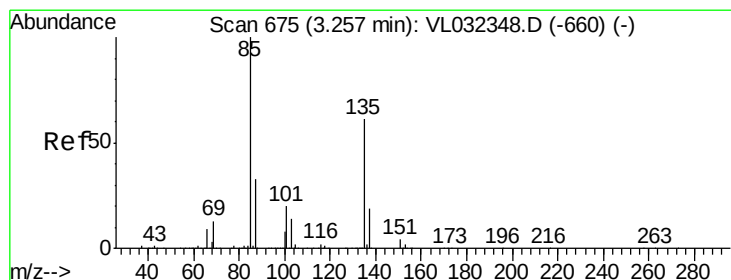
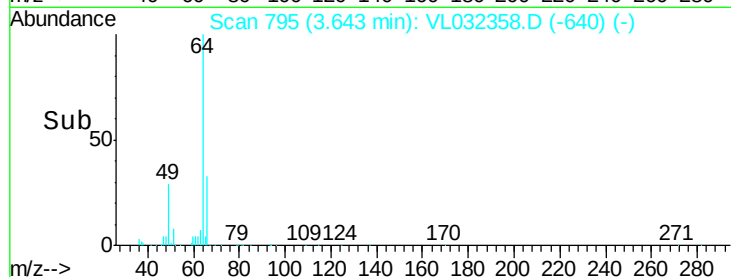
300000

200000

100000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 8.80 ppbv

RT: 3.26 min Scan# 675

Delta R.T. -0.00 min

Lab File: VL032358.D

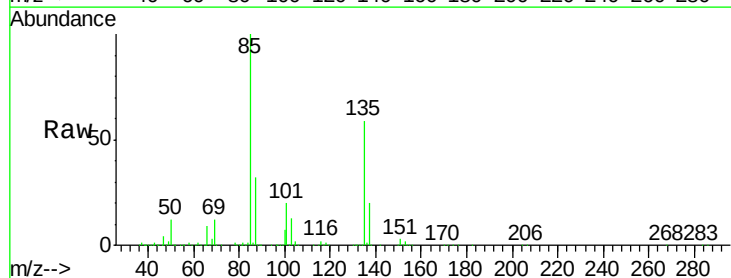
Acq: 15 Aug 2018 19:09

Tgt Ion: 85 Resp: 2367656

Ion Ratio Lower Upper

85 100

135 60.7 49.0 73.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.26

2000000

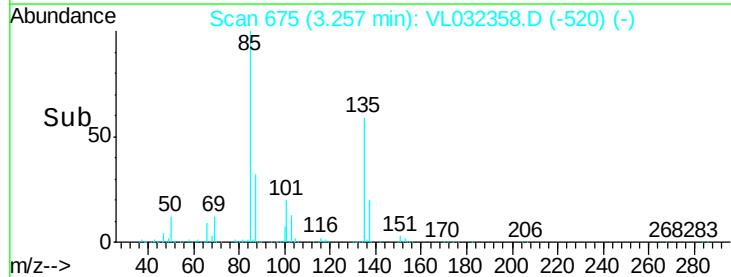
1500000

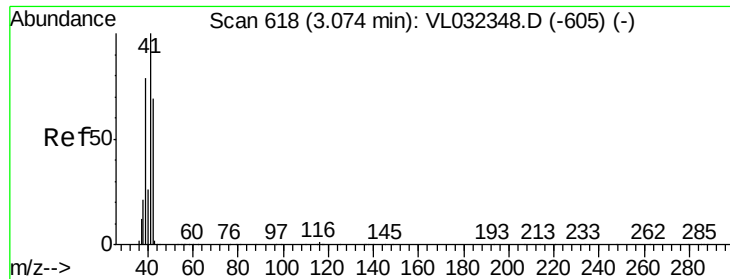
1000000

500000

0

Time-->





#9

Propene

Concen: 10.64 ppbv

RT: 3.07 min Scan# 617

Delta R.T. -0.00 min

Lab File: VL032358.D

Acq: 15 Aug 2018 19:09

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS02

Tot Ion: 41 Resp: 1005121

Ion Ratio Lower Upper

41 100

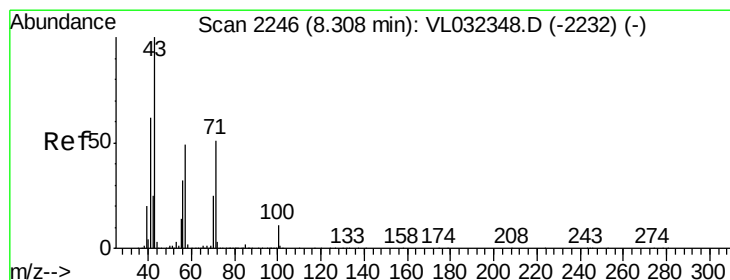
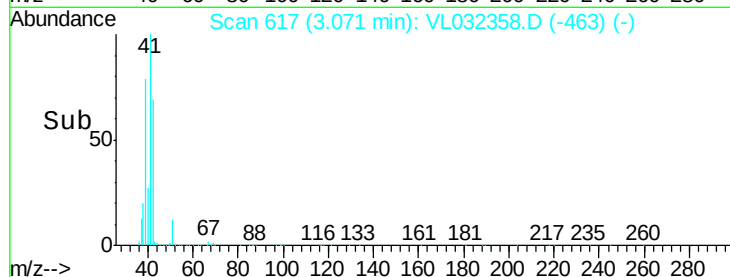
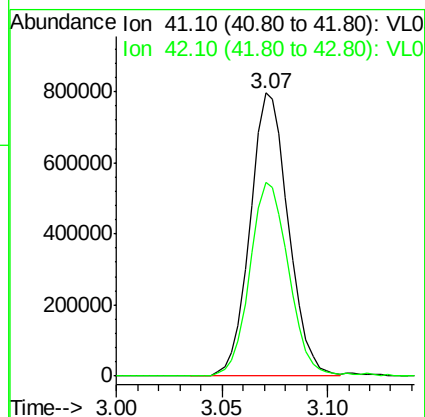
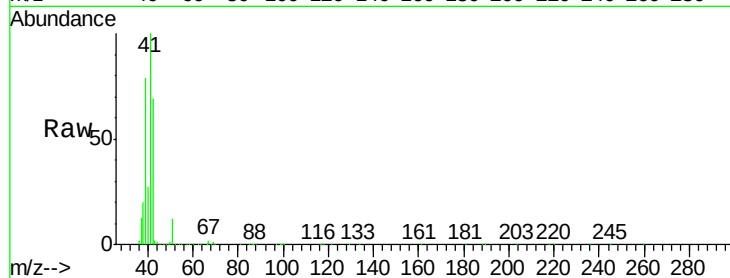
42 70.3 55.9 83.9

Manual Integrations

APPROVED

MMDadoda

8/17/2018 2:06:39 PM



#10

Heptane

Concen: 10.30 ppbv

RT: 8.31 min Scan# 2248

Delta R.T. 0.01 min

Lab File: VL032358.D

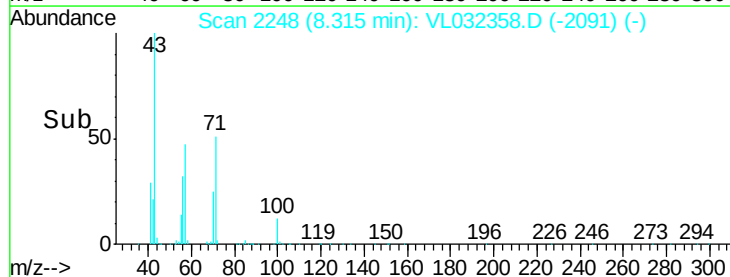
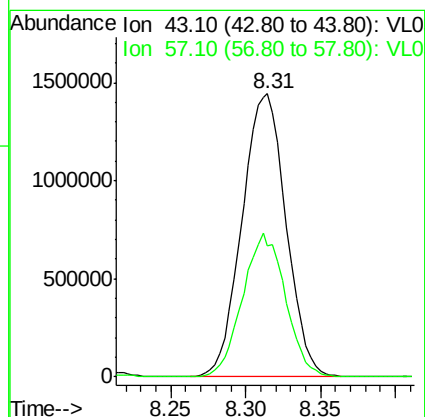
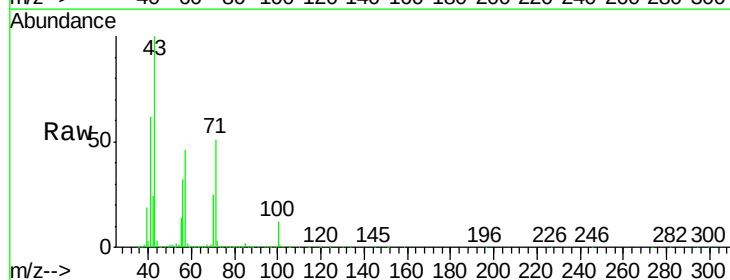
Acq: 15 Aug 2018 19:09

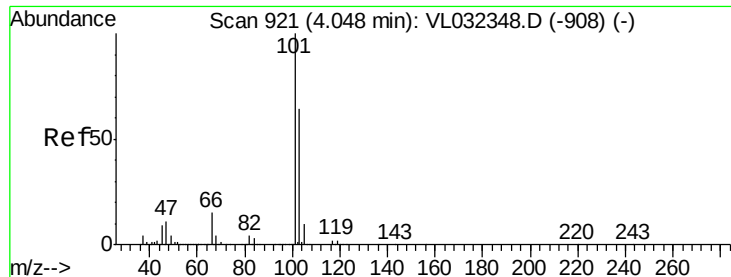
Tgt Ion: 43 Resp: 2931069

Ion Ratio Lower Upper

43 100

57 49.6 39.5 59.3





#11

Trichlorofluoromethane

Concen: 9.10 ppbv

RT: 4.05 min Scan# 921

Delta R.T. -0.00 min

Lab File: VL032358.D

Acq: 15 Aug 2018 19:09

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS02

Tot Ion:101 Resp: 2423702

Ion Ratio Lower Upper

101 100

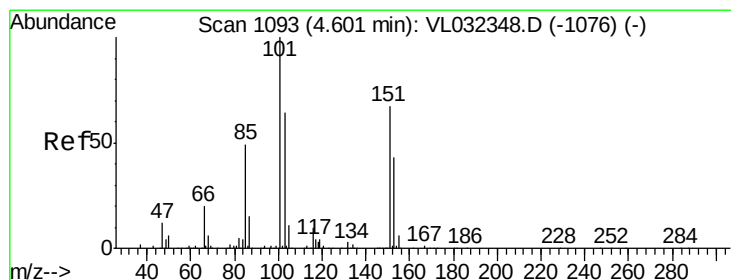
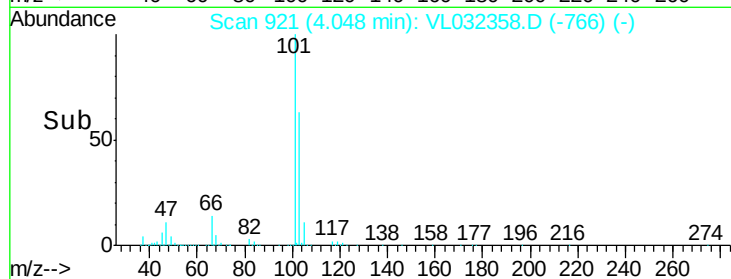
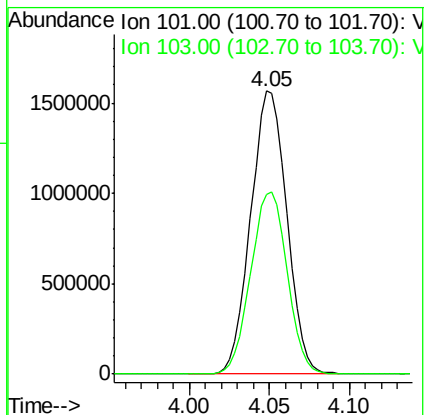
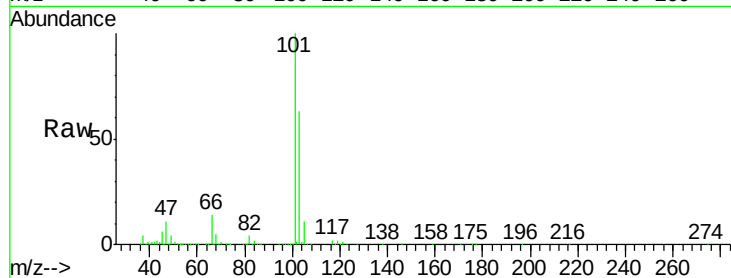
103 63.4 51.4 77.0

Manual Integrations

APPROVED

MMDadoda

8/17/2018 2:06:39 PM



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.10 ppbv

RT: 4.60 min Scan# 1093

Delta R.T. -0.00 min

Lab File: VL032358.D

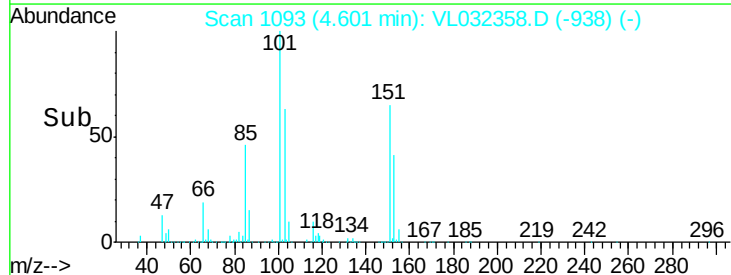
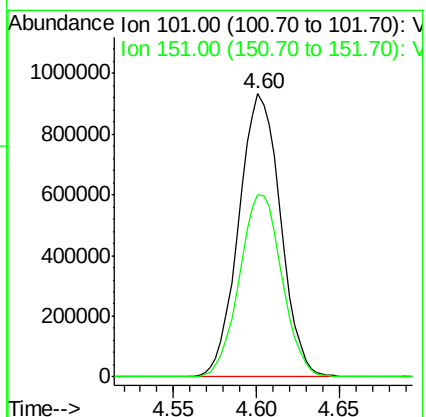
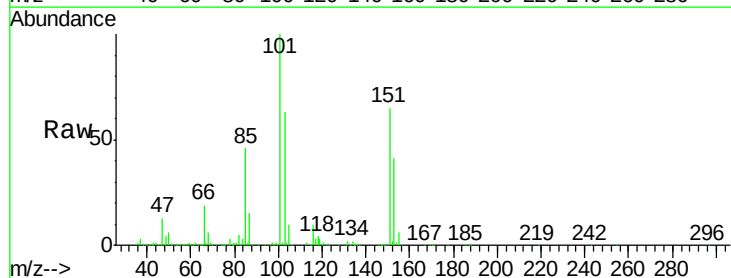
Acq: 15 Aug 2018 19:09

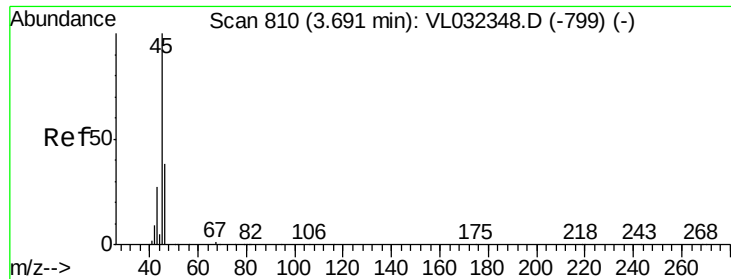
Tgt Ion:101 Resp: 1632199

Ion Ratio Lower Upper

101 100

151 65.8 53.1 79.7





#13

Ethanol

Concen: 10.78 ppbv

RT: 3.69 min Scan# 810

Delta R.T. -0.00 min

Lab File: VL032358.D

Acq: 15 Aug 2018 19:09

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS02

Tot Ion: 45 Resp: 261418

Ion Ratio Lower Upper

45 100

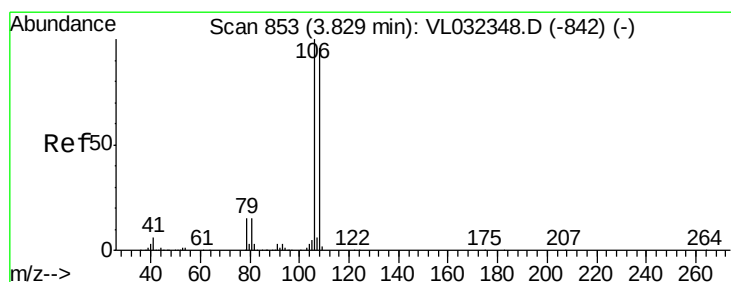
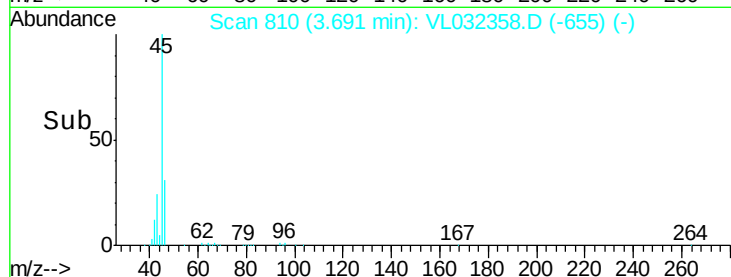
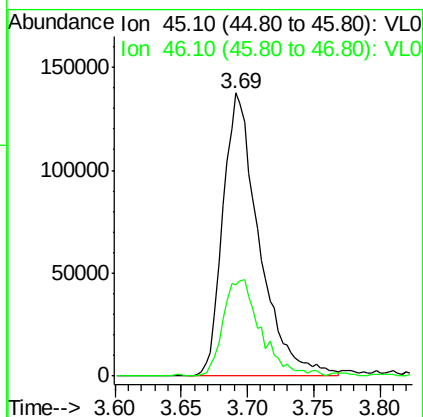
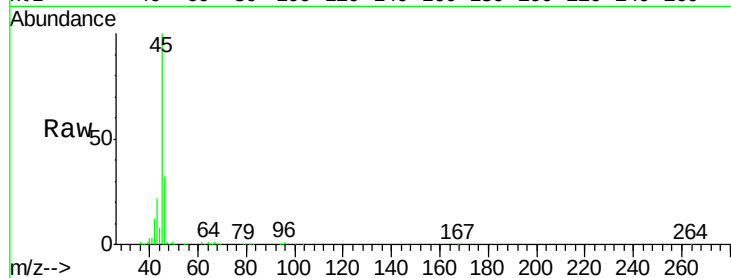
46 36.4 15.6 62.4

Manual Integrations

APPROVED

MMDadoda

8/17/2018 2:06:39 PM



#14

Bromoethene

Concen: 9.16 ppbv

RT: 3.83 min Scan# 853

Delta R.T. -0.00 min

Lab File: VL032358.D

Acq: 15 Aug 2018 19:09

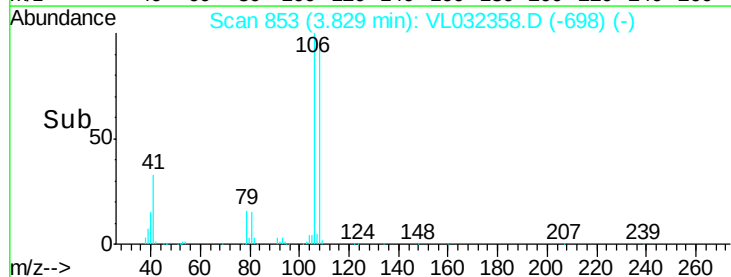
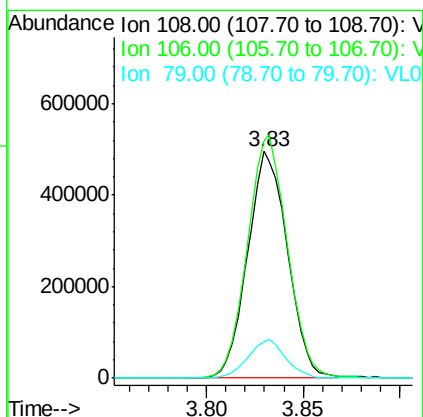
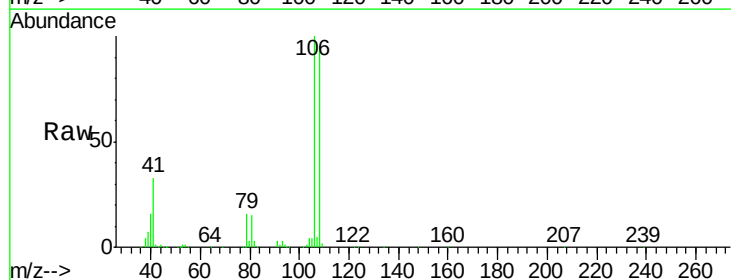
Tgt Ion: 108 Resp: 710703

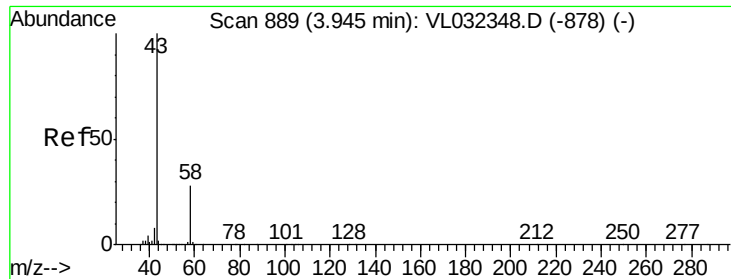
Ion Ratio Lower Upper

108 100

106 107.9 85.7 128.5

79 16.6 13.1 19.7





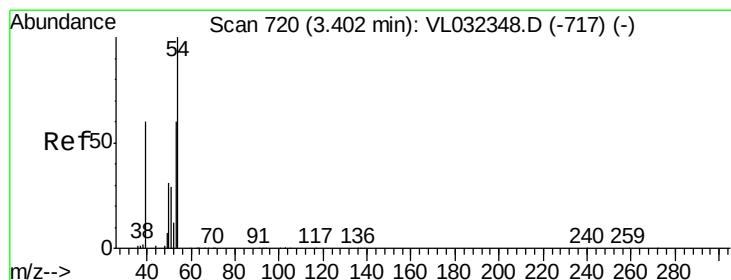
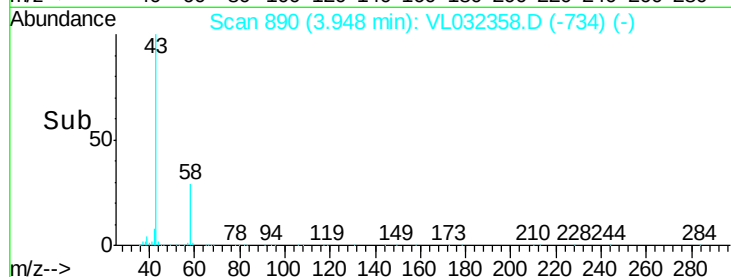
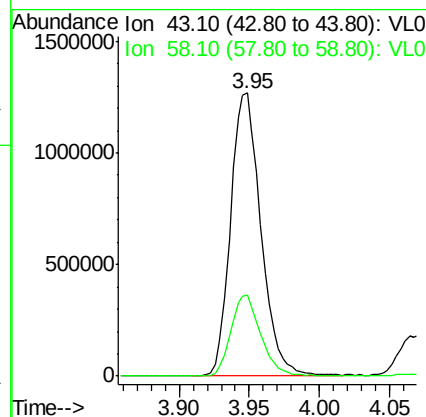
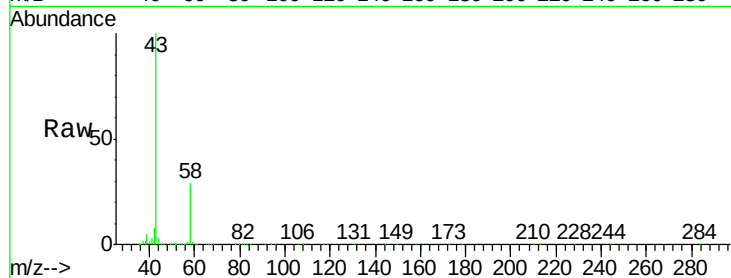
#15
Acetone
Concen: 8.45 ppbv
RT: 3.95 min Scan# 890
Delta R.T. 0.00 min
Lab File: VL032358.D
Acq: 15 Aug 2018 19:09

Instrument :
MSVOA_L
ClientSampleId :
VL0815ABS02

Tot Ion: 43 Resp: 1913246
Ion Ratio Lower Upper
43 100
58 28.2 22.4 33.6

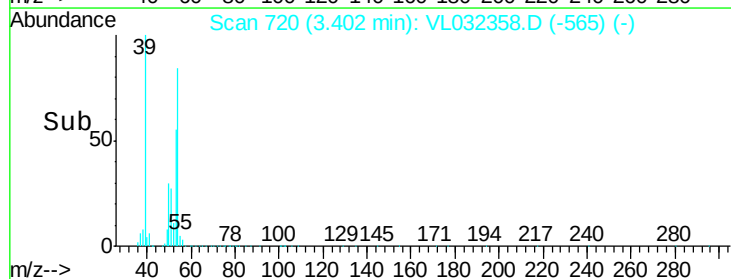
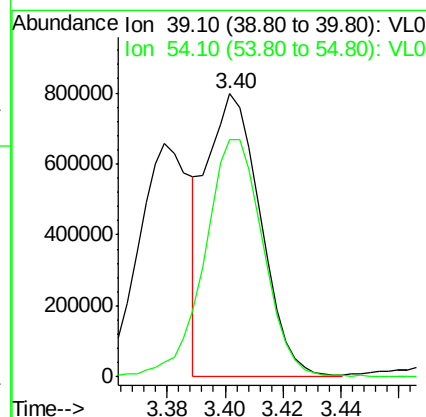
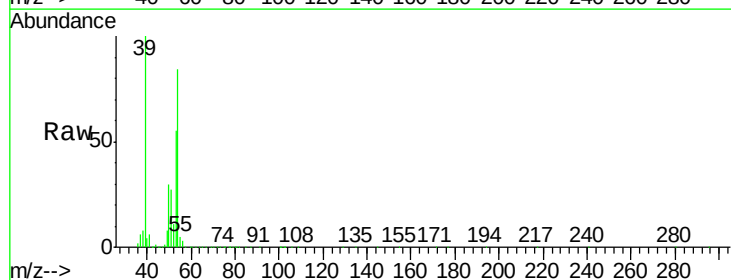
Manual Integrations
APPROVED

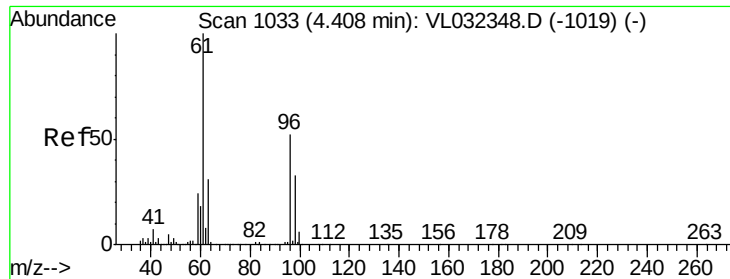
MMDadoda
8/17/2018 2:06:39 PM



#16
1,3-Butadiene
Concen: 10.98 ppbv
RT: 3.40 min Scan# 720
Delta R.T. -0.00 min
Lab File: VL032358.D
Acq: 15 Aug 2018 19:09

Tgt Ion: 39 Resp: 1025675
Ion Ratio Lower Upper
39 100
54 92.3 85.5 128.3





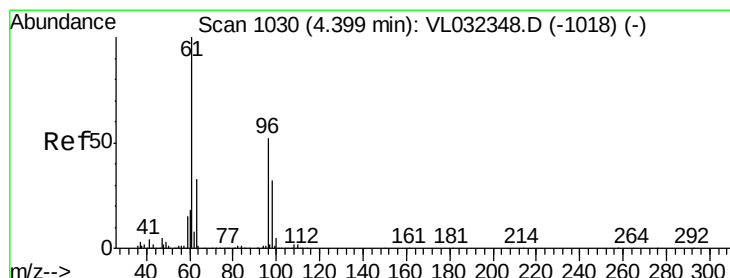
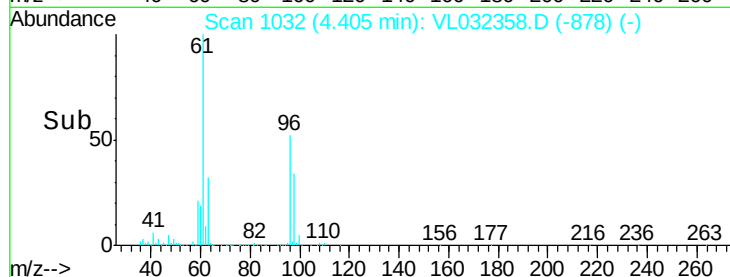
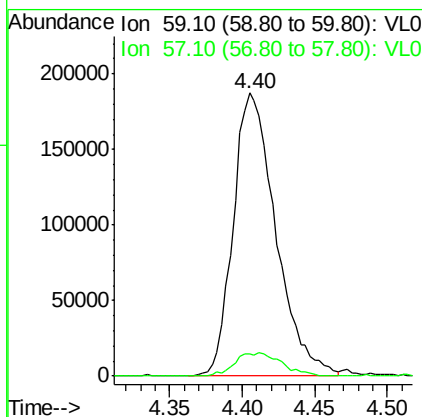
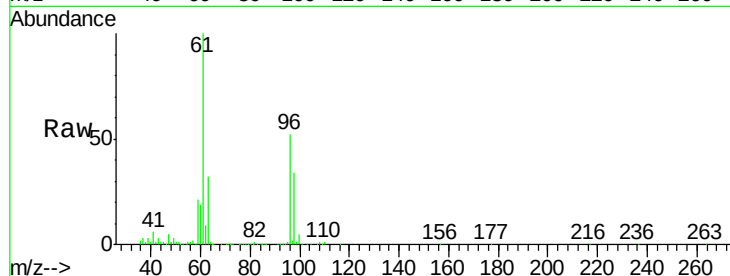
#17
 tert-Butyl alcohol
 Concen: 10.07 ppbv
 RT: 4.40 min Scan# 1032
 Delta R.T. -0.00 min
 Lab File: VL032358.D
 Acq: 15 Aug 2018 19:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0815ABS02

Tot Ion	59	Resp	382330
Ion	Ratio	Lower	Upper
59	100		
57	9.5	7.6	11.4

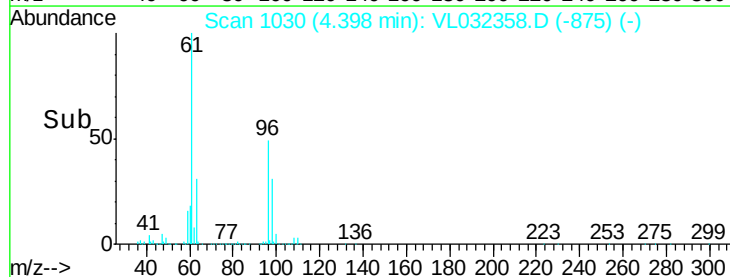
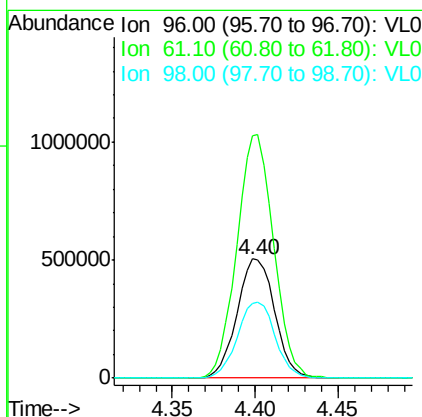
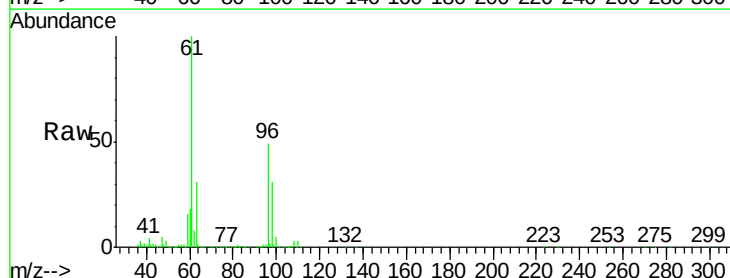
Manual Integrations
 APPROVED

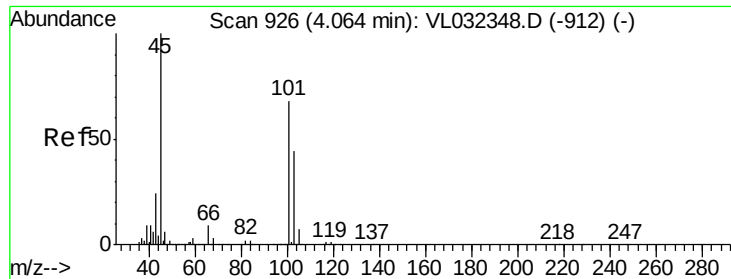
MMDadoda
 8/17/2018 2:06:39 PM



#18
 1,1-Dichloroethene
 Concen: 9.57 ppbv
 RT: 4.40 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VL032358.D
 Acq: 15 Aug 2018 19:09

Tgt Ion	96	Resp	800017
Ion	Ratio	Lower	Upper
96	100		
61	203.5	154.6	231.8
98	63.3	50.1	75.1





#19

Isopropyl Alcohol

Concen: 10.27 ppbv

RT: 4.07 min Scan# 928

Delta R.T. 0.01 min

Lab File: VL032358.D

Acq: 15 Aug 2018 19:09

Tot Ion: 45 Resp: 1564749

Ion Ratio Lower Upper

45 100

58 1.4 1.4 2.0

Instrument :

MSVOA_L

ClientSampleId :

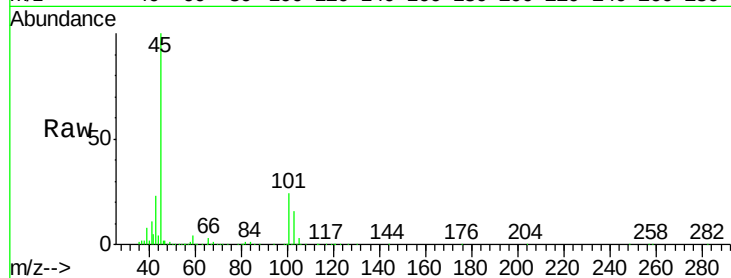
VL0815ABS02

Manual Integrations

APPROVED

MMDadoda

8/17/2018 2:06:39 PM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.07

800000

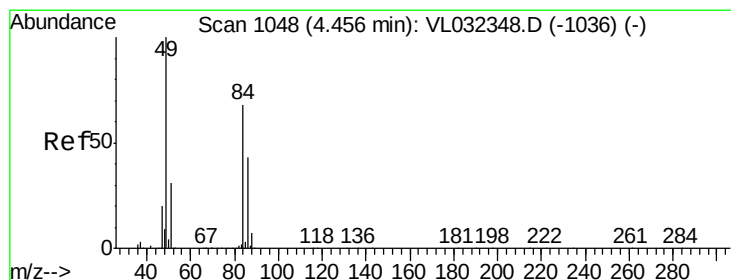
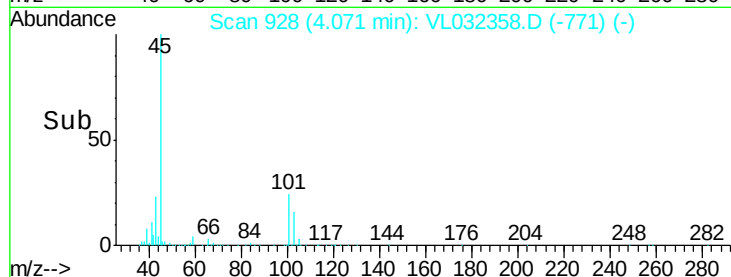
600000

400000

200000

0

Time-->



#20

Methylene Chloride

Concen: 8.32 ppbv

RT: 4.46 min Scan# 1048

Delta R.T. -0.00 min

Lab File: VL032358.D

Acq: 15 Aug 2018 19:09

Tgt Ion: 84 Resp: 711358

Ion Ratio Lower Upper

84 100

49 155.7 117.3 175.9

51 46.3 36.6 55.0

86 61.6 49.8 74.8

Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

1000000

800000

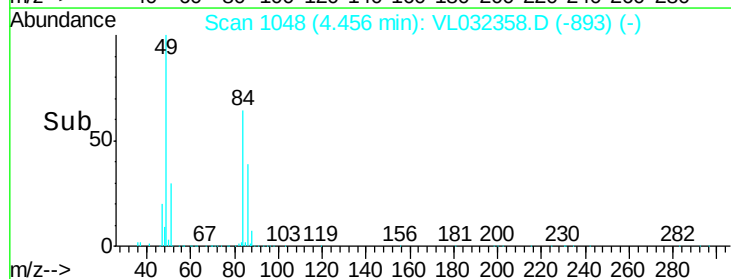
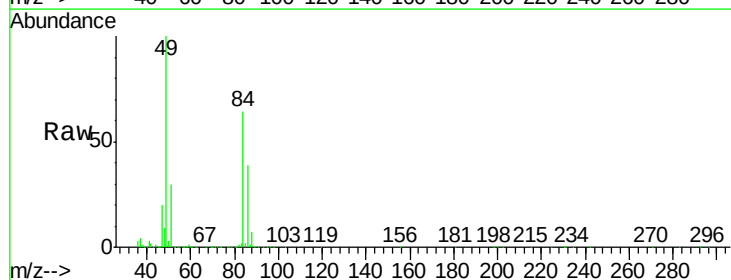
600000

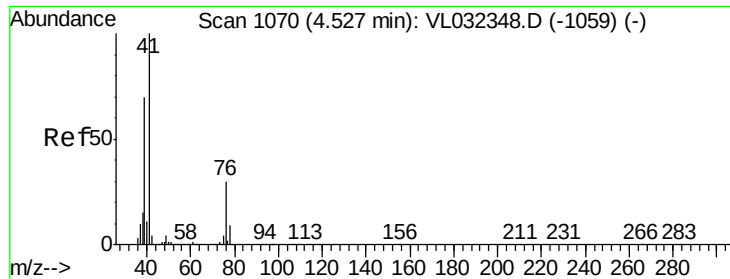
400000

200000

0

Time-->





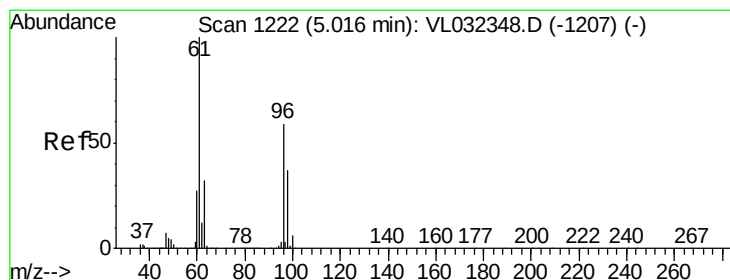
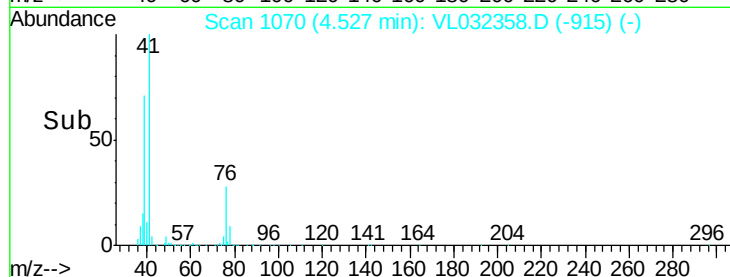
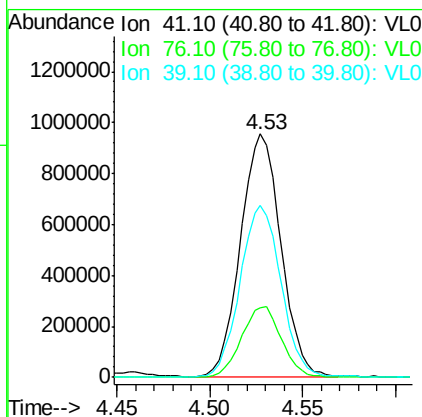
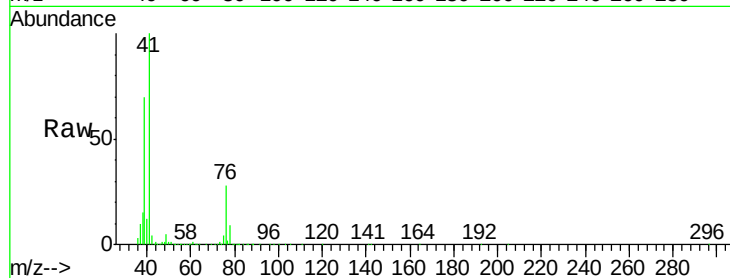
#21
Allvl Chloride
Concen: 10.14 ppbv
RT: 4.53 min Scan# 1070
Delta R.T. -0.00 min
Lab File: VL032358.D
Acq: 15 Aug 2018 19:09

Instrument :
MSVOA_L
ClientSampleId :
VL0815ABS02

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.8	22.9	34.3
39	71.6	57.6	86.4

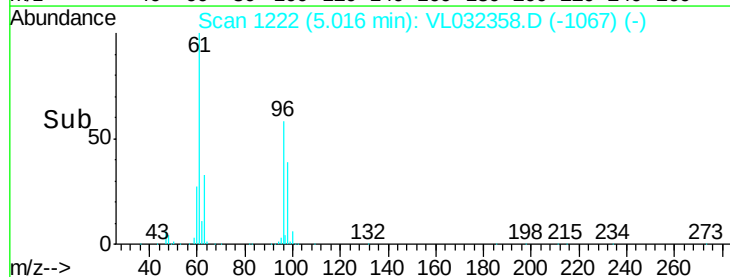
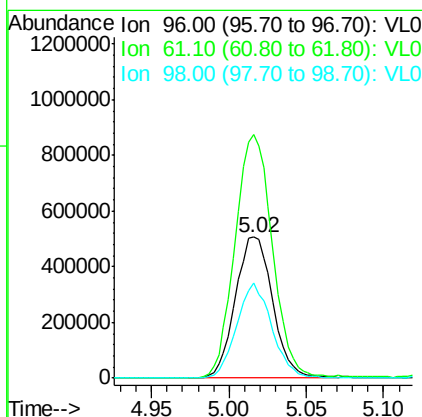
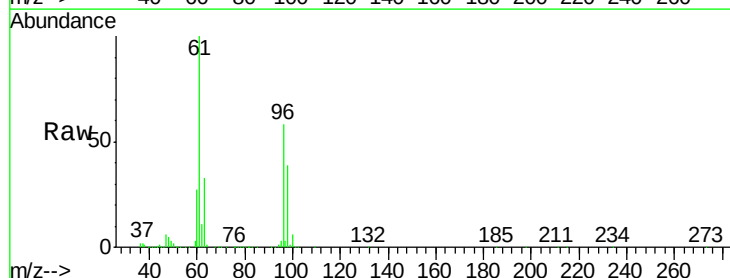
Manual Integrations
APPROVED

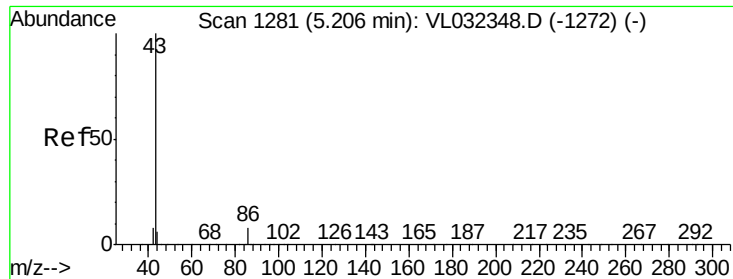
MMDadoda
8/17/2018 2:06:39 PM



#22
trans-1,2-Dichloroethene
Concen: 10.09 ppbv
RT: 5.02 min Scan# 1222
Delta R.T. -0.00 min
Lab File: VL032358.D
Acq: 15 Aug 2018 19:09

Tgt Ion	Ratio	Lower	Upper
96	100		
61	172.8	136.6	205.0
98	67.3	50.6	76.0





#23

Vinyl Acetate

Concen: 10.18 ppbv

RT: 5.21 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VL032358.D

Acq: 15 Aug 2018 19:09

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS02

Tot Ion: 43 Resp: 3979792

Ion Ratio Lower Upper

43 100

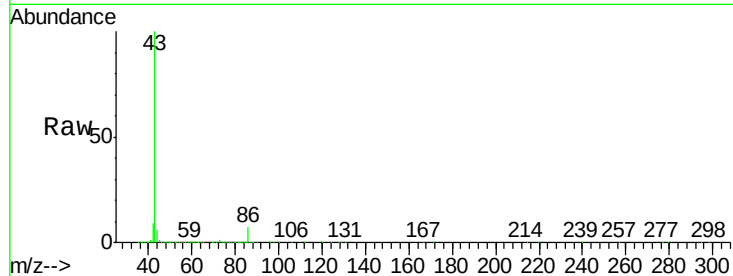
86 7.3 5.5 8.3

42 9.4 7.0 10.6

44 5.7 4.6 6.8

Manual Integrations
APPROVED

MMDadoda
8/17/2018 2:06:39 PM

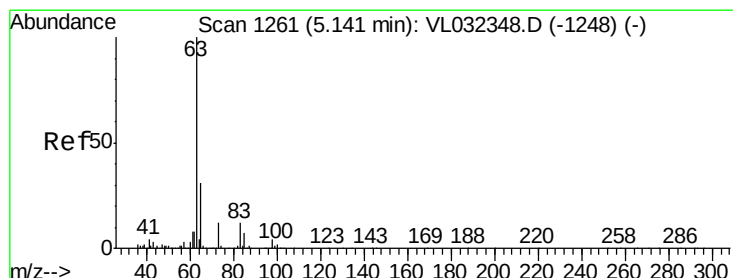
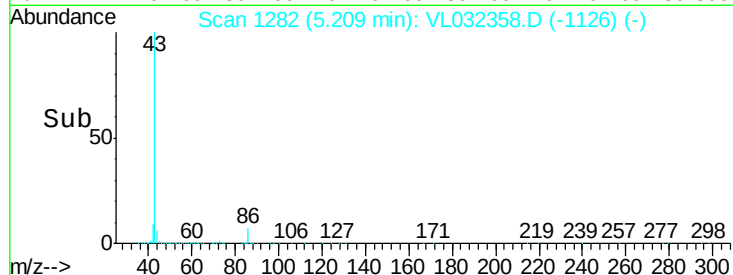
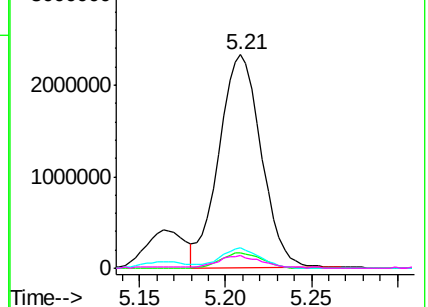


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.75 ppbv

RT: 5.14 min Scan# 1262

Delta R.T. 0.00 min

Lab File: VL032358.D

Acq: 15 Aug 2018 19:09

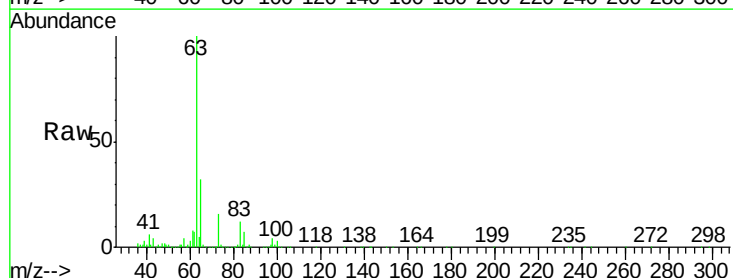
Tgt Ion: 63 Resp: 2751383

Ion Ratio Lower Upper

63 100

98 4.1 2.1 6.3

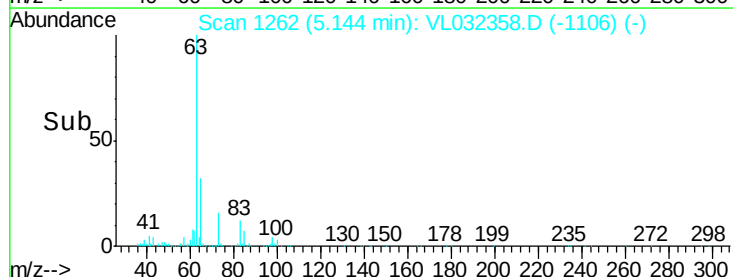
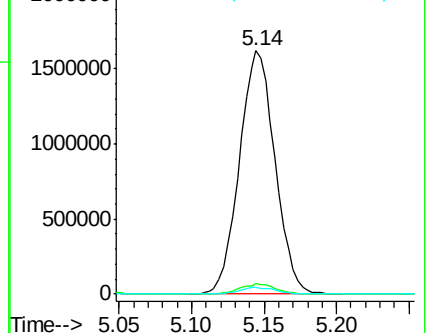
100 2.7 1.2 3.6

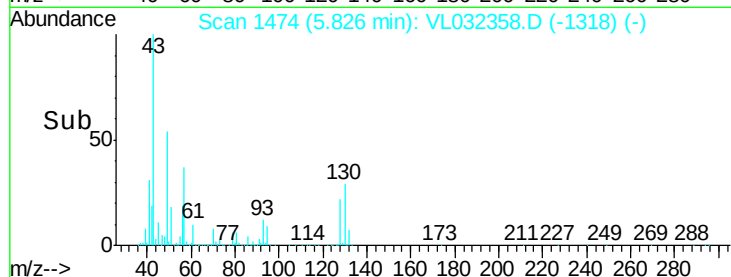
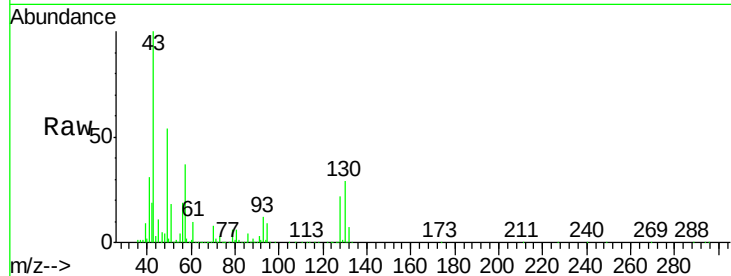
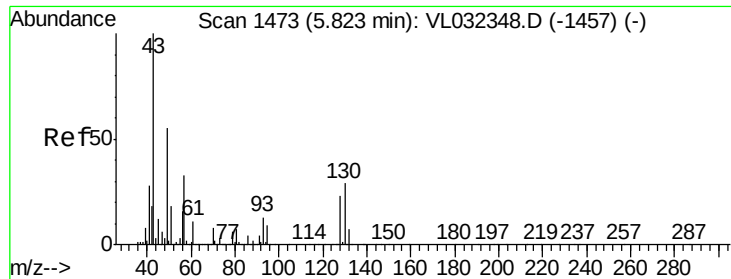


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25
Ethyl Acetate
Concen: 9.63 ppbv
RT: 5.83 min Scan# 1474
Delta R.T. 0.00 min
Lab File: VL032358.D
Acq: 15 Aug 2018 19:09

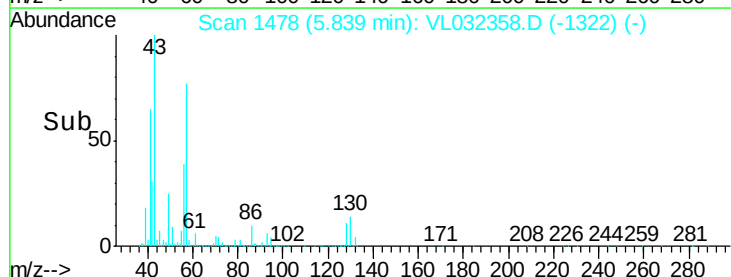
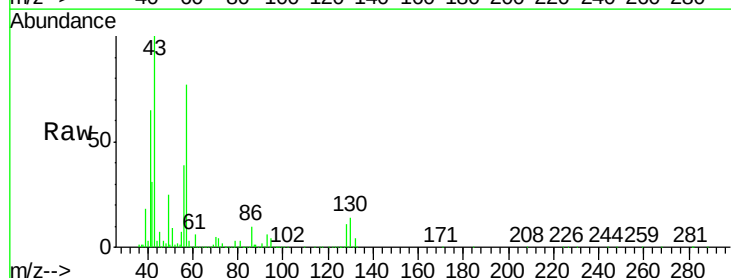
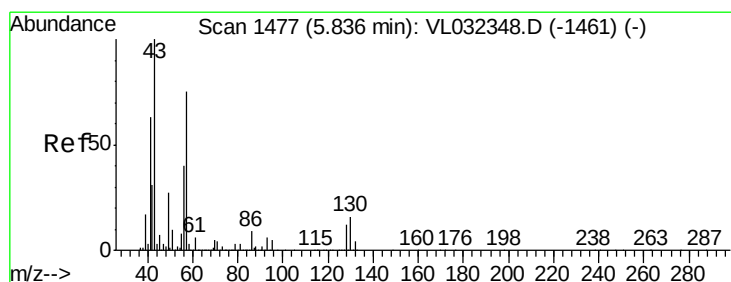
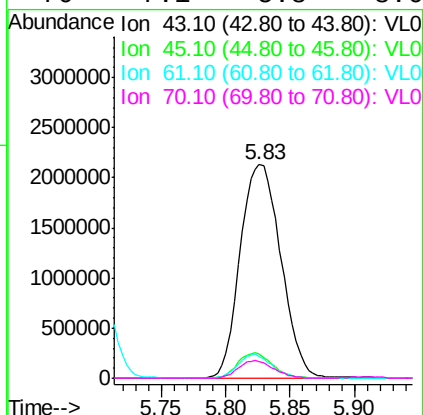
Tot Ion: 43 Resp: 4673116

Ion	Ratio	Lower	Upper
43	100		
45	10.1	7.9	11.9
61	9.3	7.4	11.2
70	7.1	5.8	8.6

Instrument :
MSVOA_L
ClientSampleId :
VL0815ABS02

Manual Integrations
APPROVED

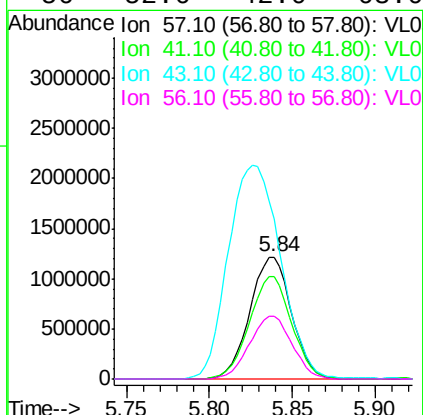
MMDadoda
8/17/2018 2:06:39 PM

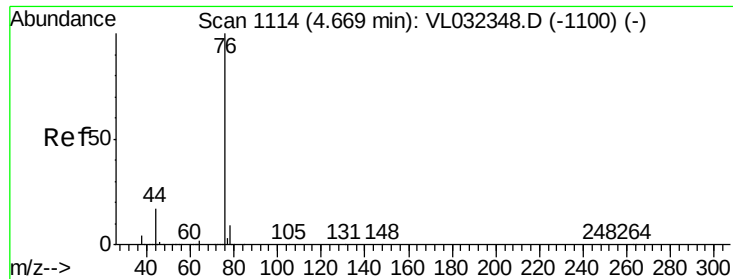


#26
Hexane
Concen: 9.86 ppbv
RT: 5.84 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VL032358.D
Acq: 15 Aug 2018 19:09

Tgt Ion: 57 Resp: 2131725

Ion	Ratio	Lower	Upper
57	100		
41	85.1	68.0	102.0
43	220.2	175.3	262.9
56	52.6	42.0	63.0





#27

Carbon Disulfide

Concen: 10.15 ppbv

RT: 4.67 min Scan# 1115

Delta R.T. 0.00 min

Lab File: VL032358.D

Acq: 15 Aug 2018 19:09

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS02

Tot Ion: 76 Resp: 2047694

Ion Ratio Lower Upper

76 100

44 17.9 14.4 21.6

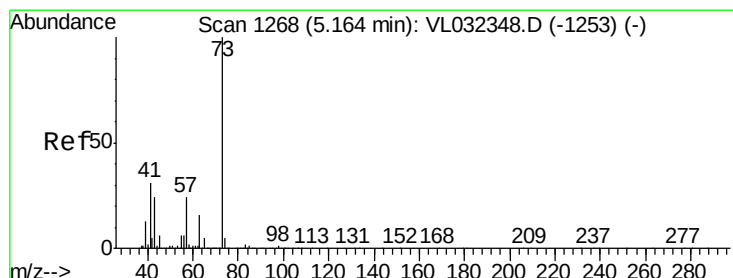
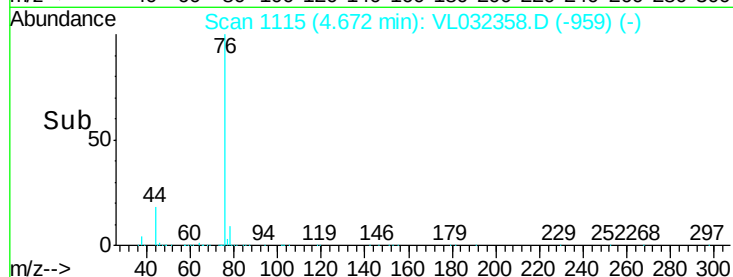
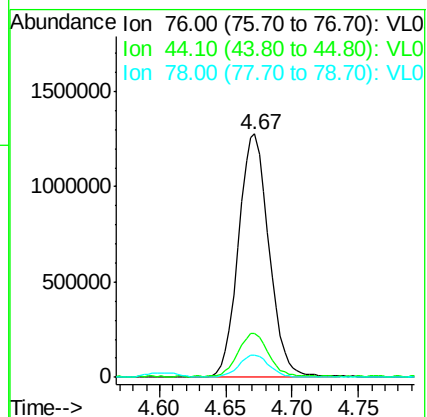
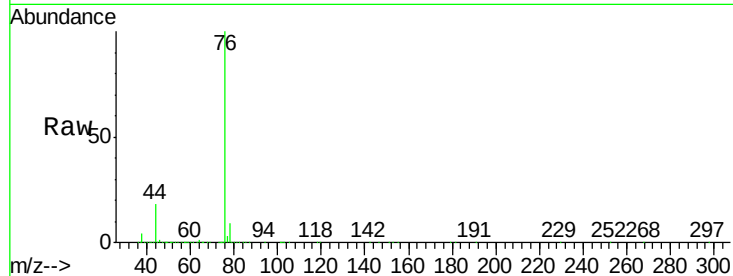
78 9.3 7.4 11.0

Manual Integrations

APPROVED

MMDadoda

8/17/2018 2:06:39 PM



#28

Methyl tert-Butyl Ether

Concen: 10.65 ppbv

RT: 5.17 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VL032358.D

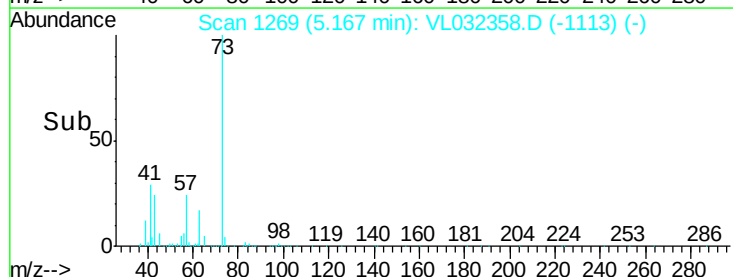
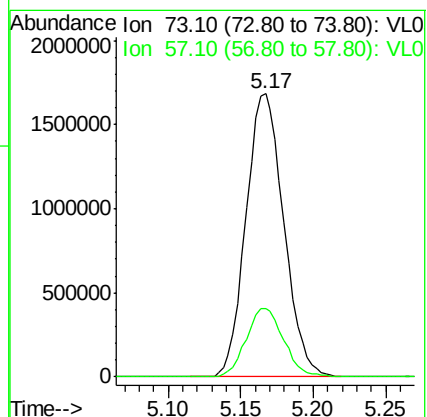
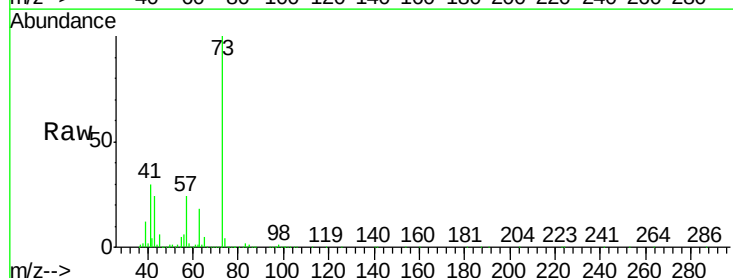
Acq: 15 Aug 2018 19:09

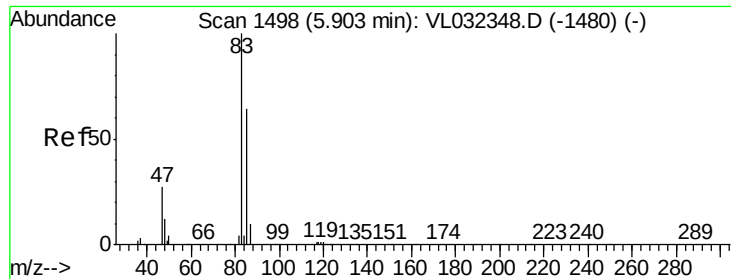
Tgt Ion: 73 Resp: 3055095

Ion Ratio Lower Upper

73 100

57 24.1 19.3 28.9





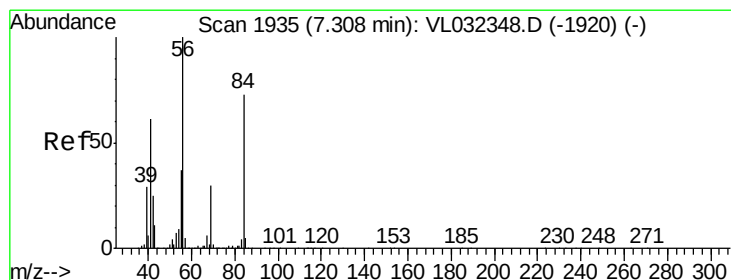
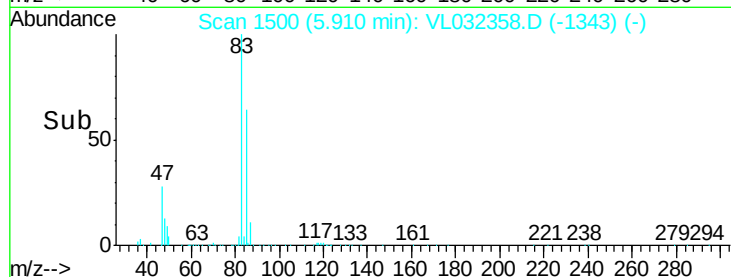
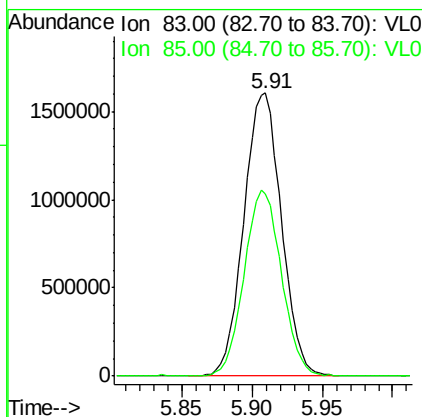
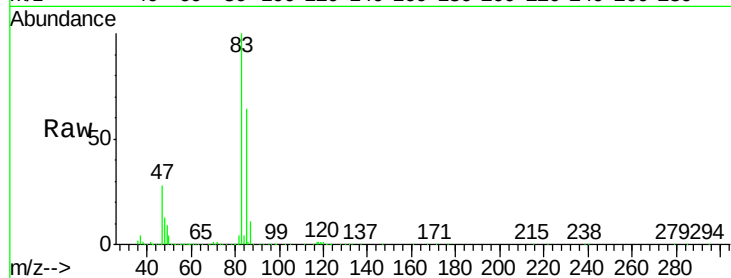
#29
Chloroform
Concen: 9.47 ppbv
RT: 5.91 min Scan# 1500
Delta R.T. 0.01 min
Lab File: VL032358.D
Acq: 15 Aug 2018 19:09

Instrument :
MSVOA_L
ClientSampleId :
VL0815ABS02

Tot Ion: 83 Resp: 3001826
Ion Ratio Lower Upper
83 100
85 64.3 51.6 77.4

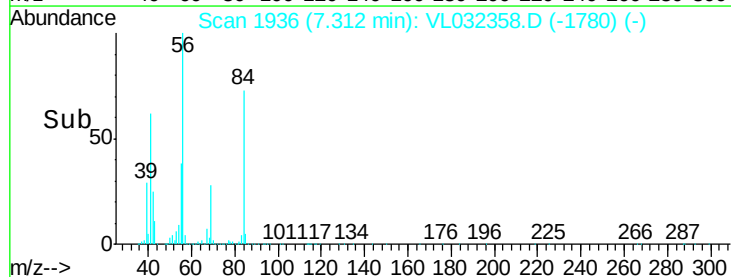
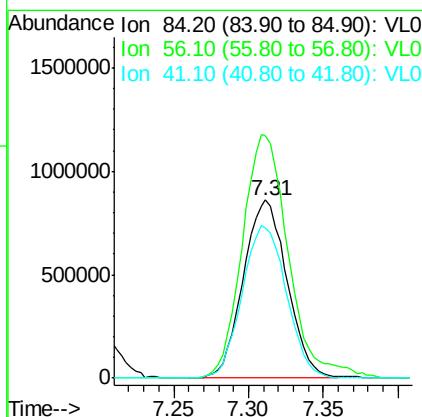
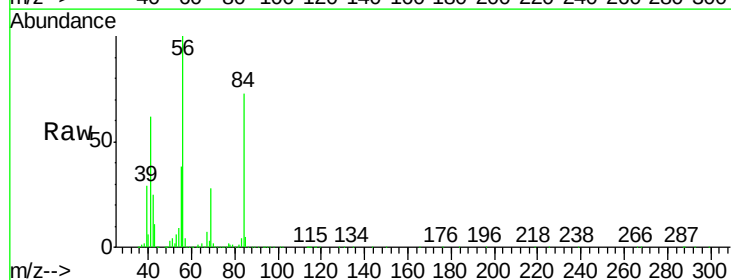
Manual Integrations
APPROVED

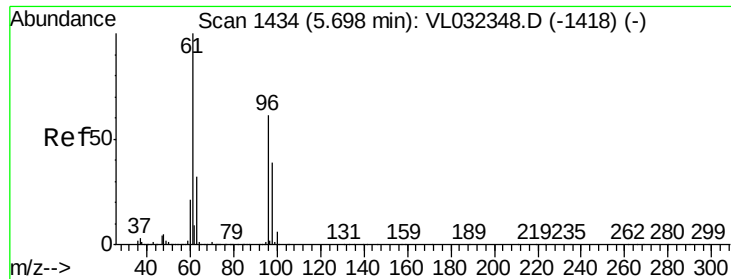
MMDadoda
8/17/2018 2:06:39 PM



#30
Cyclohexane
Concen: 10.64 ppbv
RT: 7.31 min Scan# 1936
Delta R.T. 0.00 min
Lab File: VL032358.D
Acq: 15 Aug 2018 19:09

Tgt Ion: 84 Resp: 1752747
Ion Ratio Lower Upper
84 100
56 144.4 115.7 173.5
41 86.8 67.9 101.9





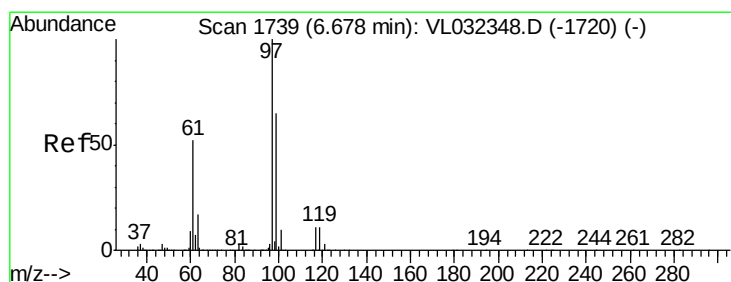
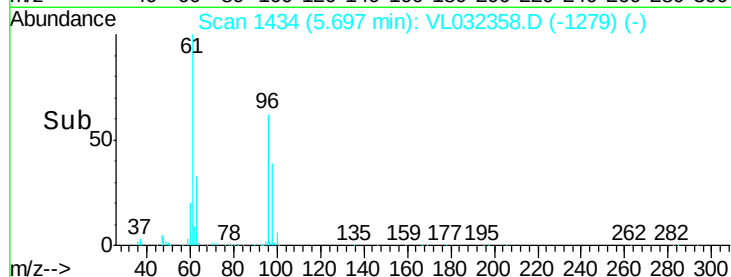
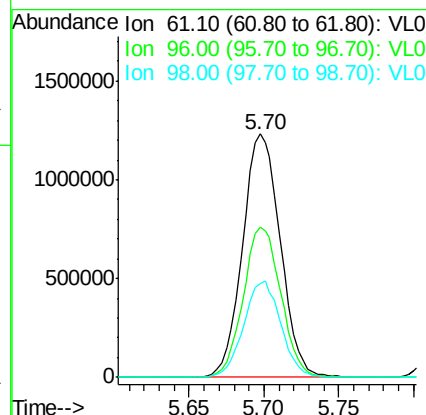
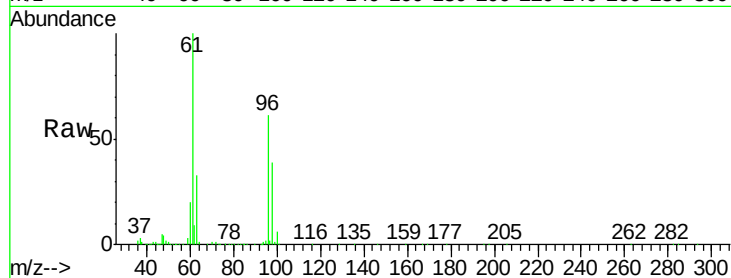
#31
 cis-1,2-Dichloroethene
 Concen: 10.21 ppbv
 RT: 5.70 min Scan# 1434
 Delta R.T. -0.00 min
 Lab File: VL032358.D
 Acq: 15 Aug 2018 19:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0815ABS02

Tot Ion	Ratio	Lower	Upper
61	100		
96	61.5	48.5	72.7
98	38.5	31.0	46.4

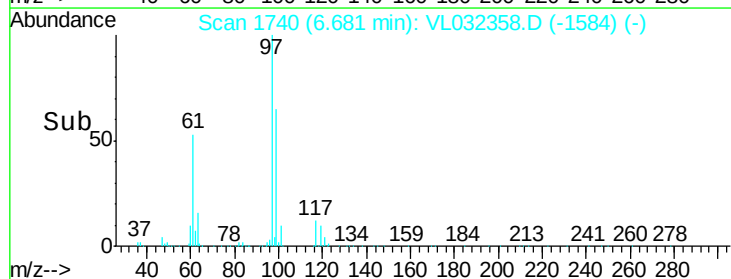
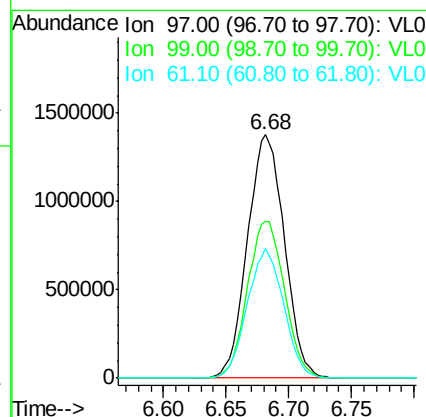
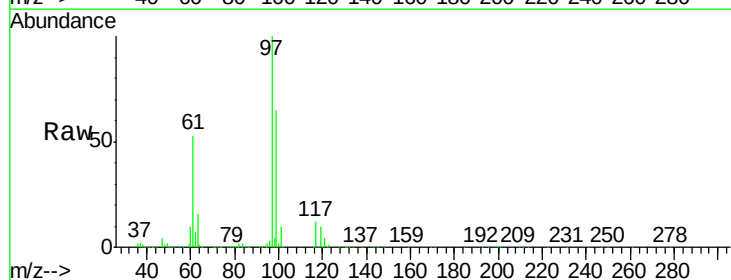
Manual Integrations
 APPROVED

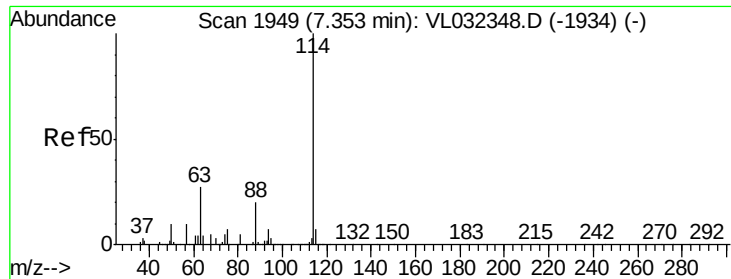
MMDadoda
 8/17/2018 2:06:39 PM



#32
 1,1,1-Trichloroethane
 Concen: 9.17 ppbv
 RT: 6.68 min Scan# 1740
 Delta R.T. 0.00 min
 Lab File: VL032358.D
 Acq: 15 Aug 2018 19:09

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.1	76.7
61	52.2	41.1	61.7





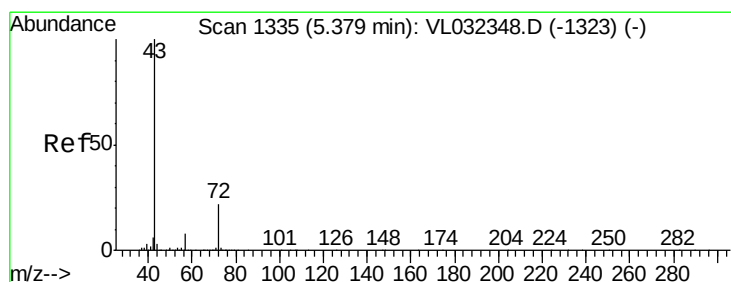
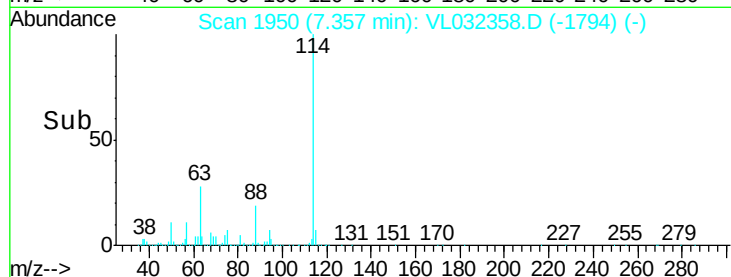
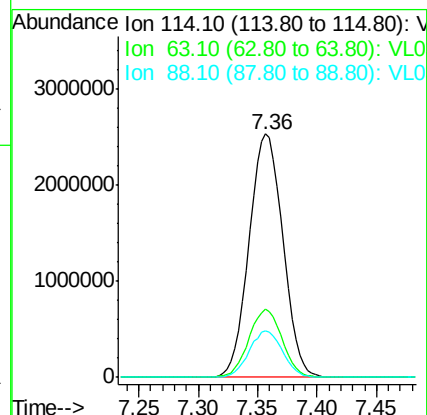
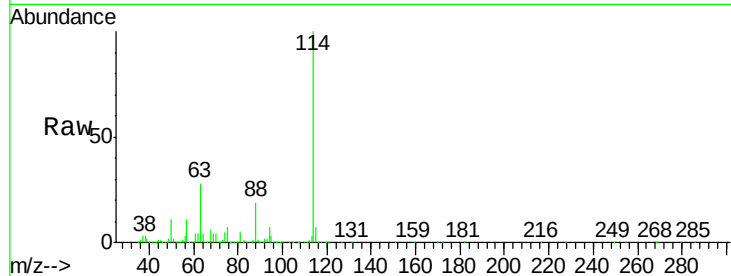
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.36 min Scan# 1950
 Delta R.T. 0.00 min
 Lab File: VL032358.D
 Acq: 15 Aug 2018 19:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0815ABS02

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.9	22.0	33.0
88	18.9	15.3	22.9

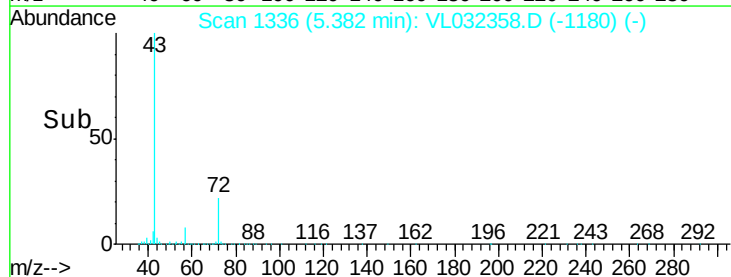
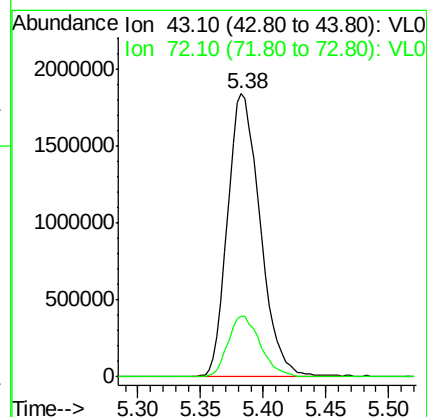
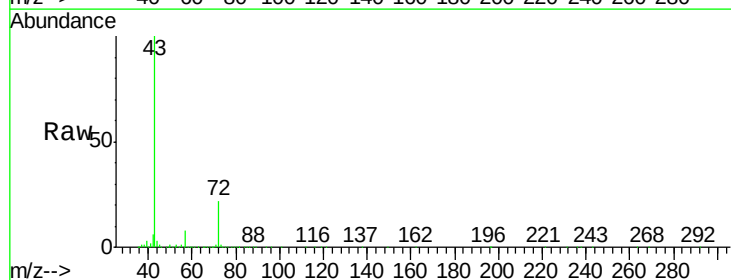
Manual Integrations
 APPROVED

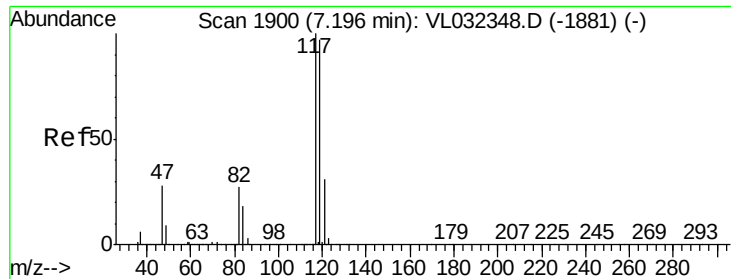
MMDadoda
 8/17/2018 2:06:39 PM



#34
 2-Butanone
 Concen: 9.78 ppbv
 RT: 5.38 min Scan# 1336
 Delta R.T. 0.00 min
 Lab File: VL032358.D
 Acq: 15 Aug 2018 19:09

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.5	17.9	26.9





#35

Carbon Tetrachloride

Concen: 9.49 ppbv

RT: 7.20 min Scan# 1900

Delta R.T. -0.00 min

Lab File: VL032358.D

Acq: 15 Aug 2018 19:09

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS02

Tot Ion:117 Resp: 2788962

Ion Ratio Lower Upper

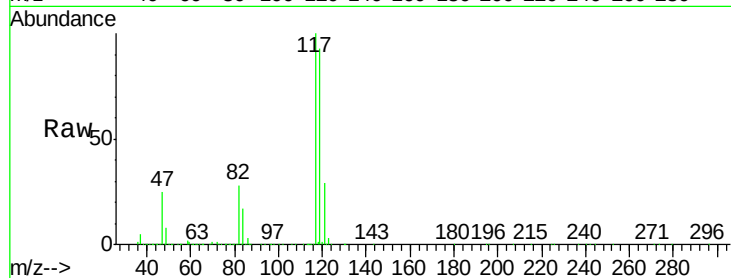
117 100

119 92.9 77.2 115.8

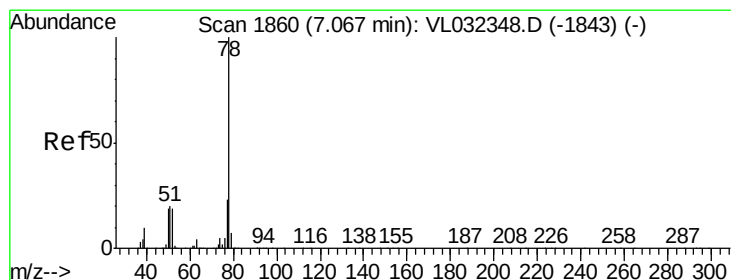
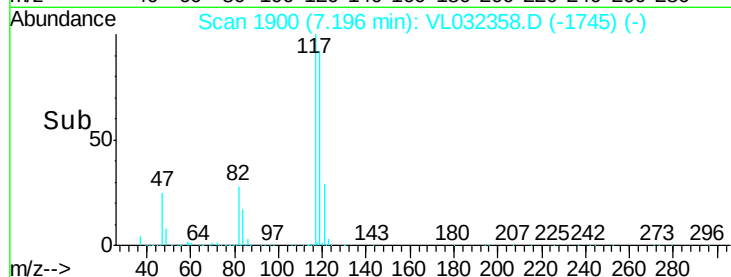
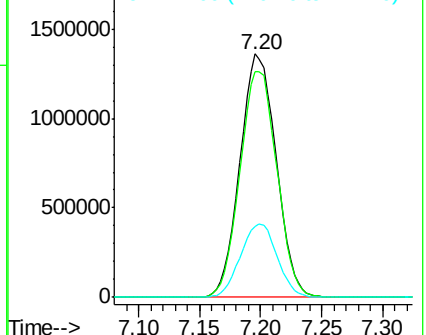
121 29.1 25.1 37.7

Manual Integrations
APPROVED

MMDadoda
8/17/2018 2:06:39 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: 9.73 ppbv

RT: 7.07 min Scan# 1860

Delta R.T. -0.00 min

Lab File: VL032358.D

Acq: 15 Aug 2018 19:09

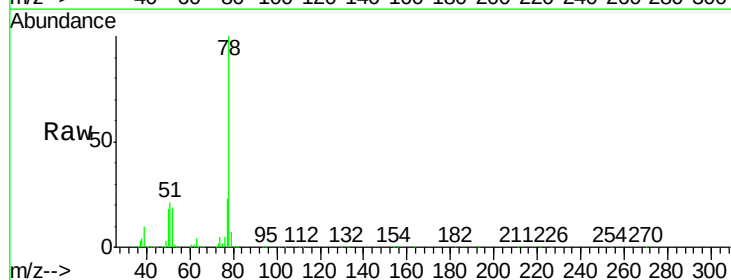
Tgt Ion: 78 Resp: 4108982

Ion Ratio Lower Upper

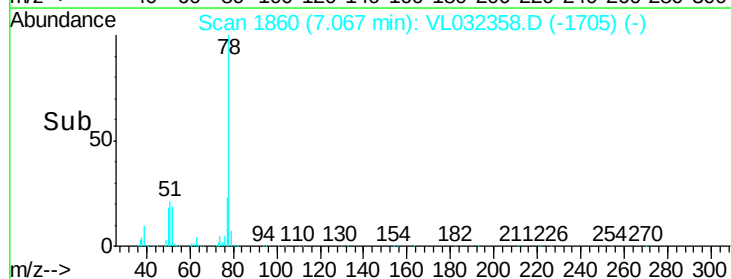
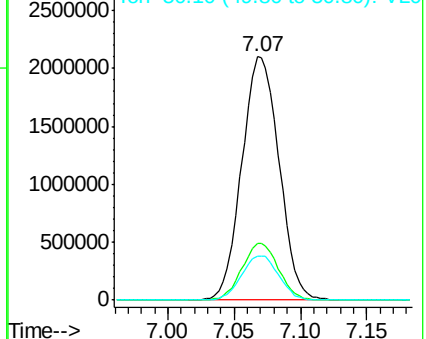
78 100

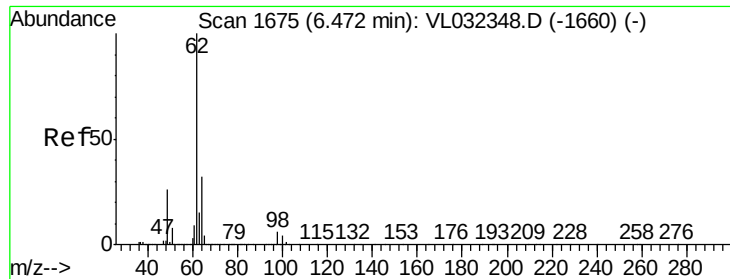
77 23.0 18.0 27.0

50 17.8 15.1 22.7



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





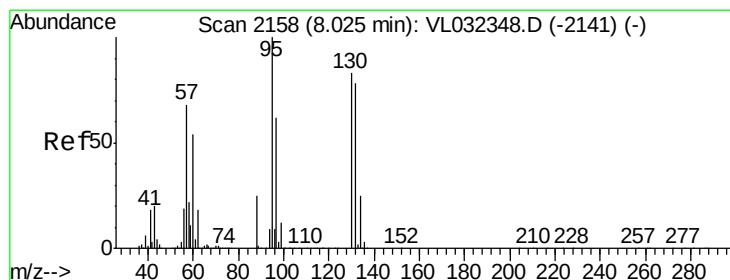
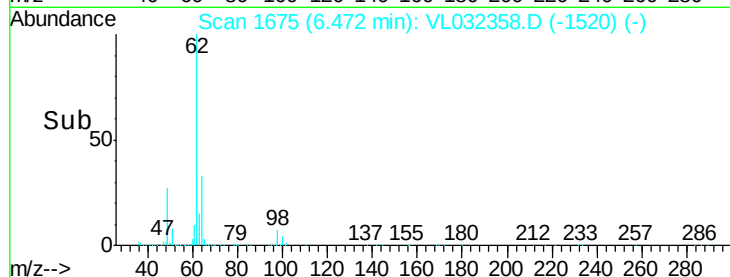
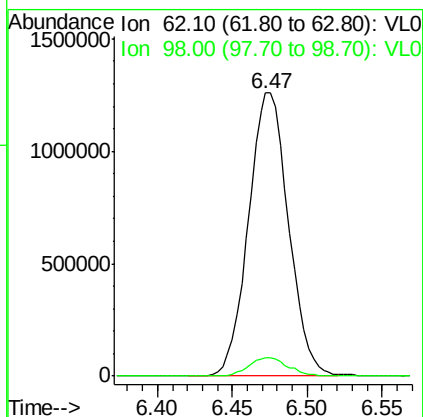
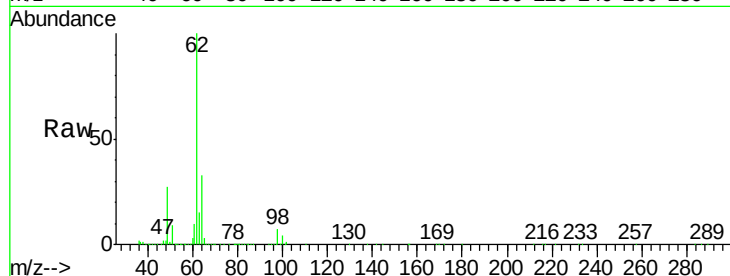
#37
 1,2-Dichloroethane
 Concen: 9.15 ppbv
 RT: 6.47 min Scan# 1675
 Delta R.T. -0.00 min
 Lab File: VL032358.D
 Acq: 15 Aug 2018 19:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0815ABS02

Tot Ion	Ratio	Lower	Upper
62	100		
98	6.4	5.0	7.6

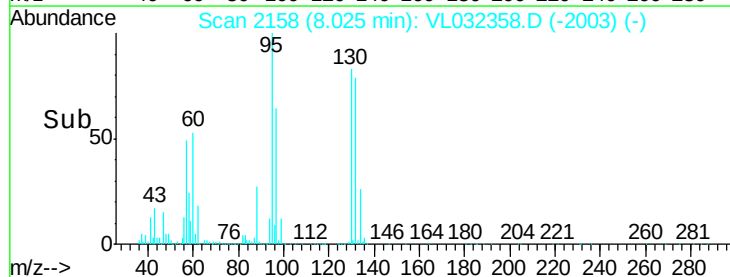
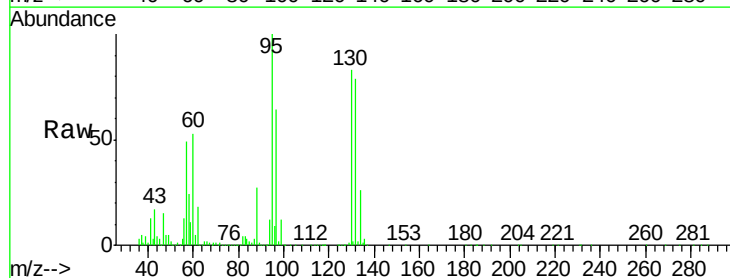
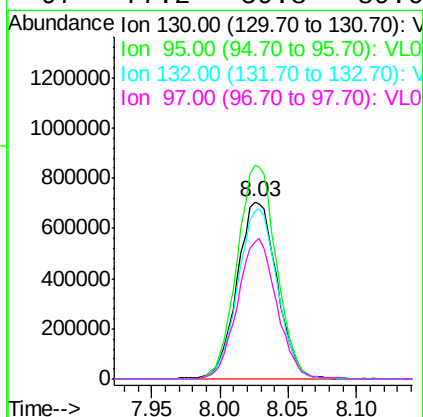
Manual Integrations
 APPROVED

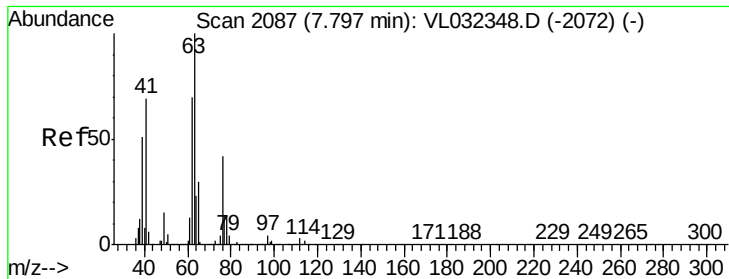
MMDadoda
 8/17/2018 2:06:39 PM



#38
 Trichloroethene
 Concen: 9.55 ppbv
 RT: 8.03 min Scan# 2158
 Delta R.T. -0.00 min
 Lab File: VL032358.D
 Acq: 15 Aug 2018 19:09

Tgt Ion	Ratio	Lower	Upper
130	100		
95	120.8	96.6	144.8
132	94.7	75.5	113.3
97	77.2	59.8	89.6





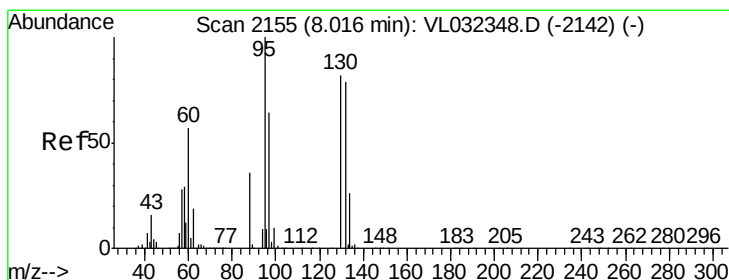
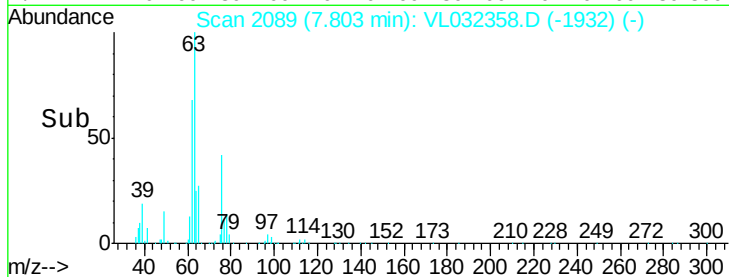
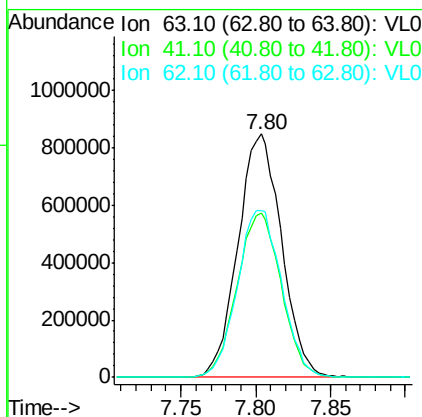
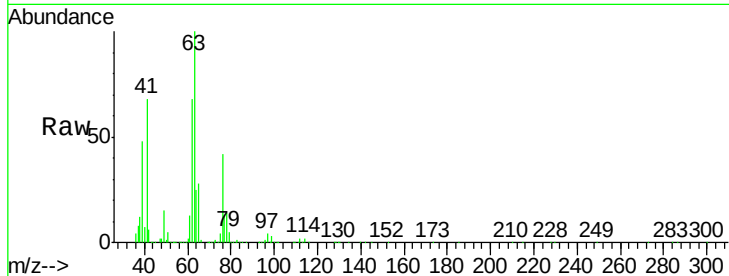
#39
 1,2-Dichloropropane
 Concen: 9.69 ppbv
 RT: 7.80 min Scan# 2089
 Delta R.T. 0.01 min
 Lab File: VL032358.D
 Acq: 15 Aug 2018 19:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0815ABS02

Tot Ion	Ratio	Lower	Upper
63	100		
41	67.7	55.5	83.3
62	68.5	56.3	84.5

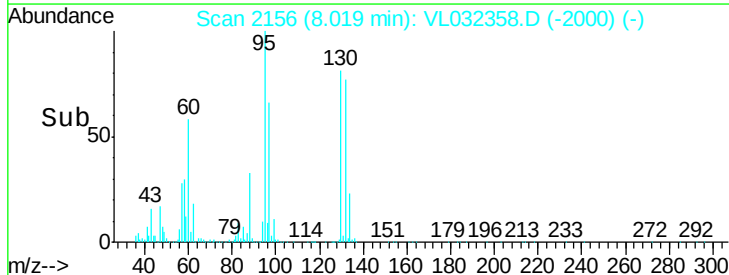
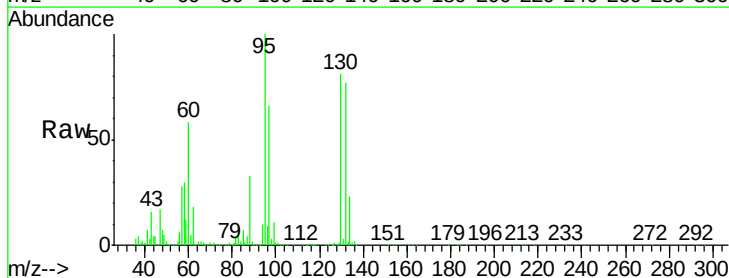
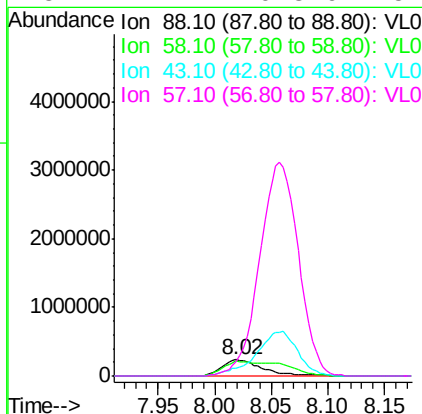
Manual Integrations
 APPROVED

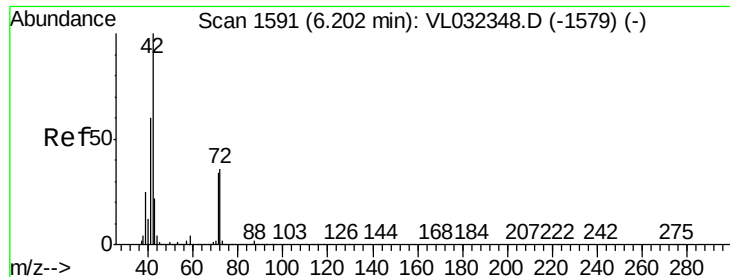
MMDadoda
 8/17/2018 2:06:39 PM



#40
 1,4-Dioxane
 Concen: 10.87 ppbv
 RT: 8.02 min Scan# 2156
 Delta R.T. 0.00 min
 Lab File: VL032358.D
 Acq: 15 Aug 2018 19:09

Tgt Ion	Ratio	Lower	Upper
88	100		
58	142.6	113.7	170.5
43	283.0	224.0	336.0
57	1272.2	1013.0	1519.6





#41

Tetrahydrofuran

Concen: 10.55 ppbv

RT: 6.21 min Scan# 1592

Delta R.T. 0.00 min

Lab File: VL032358.D

Acq: 15 Aug 2018 19:09

Instrument :

MSVOA_L

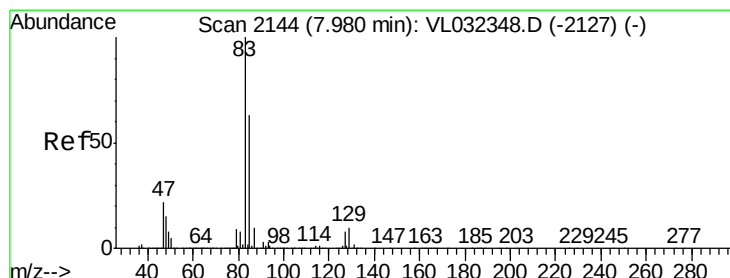
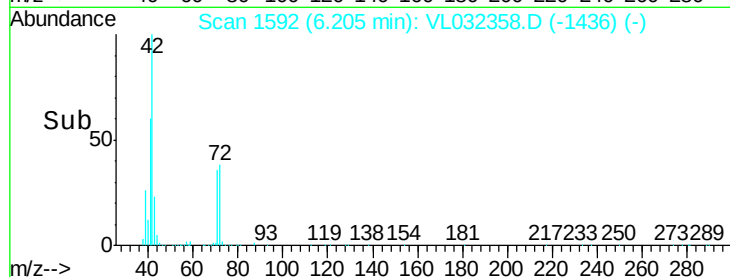
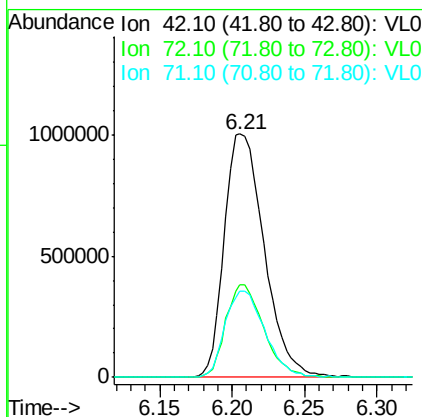
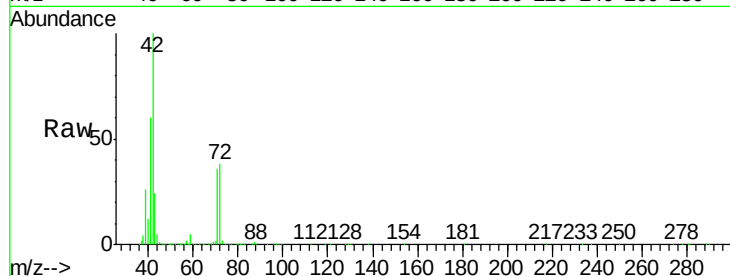
ClientSampleId :

VL0815ABS02

Tot Ion:	42	Resp:	1921155
Ion	Ratio	Lower	Upper
42	100		
72	36.5	29.8	44.6
71	35.6	28.2	42.2

Manual Integrations
APPROVED

MMDadoda
8/17/2018 2:06:39 PM



#42

Bromodichloromethane

Concen: 9.68 ppbv

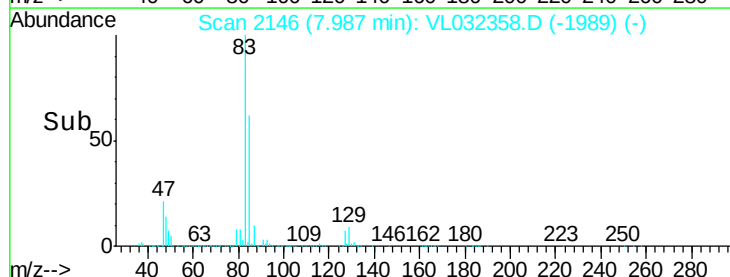
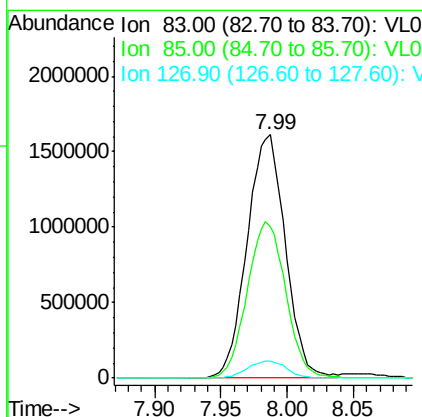
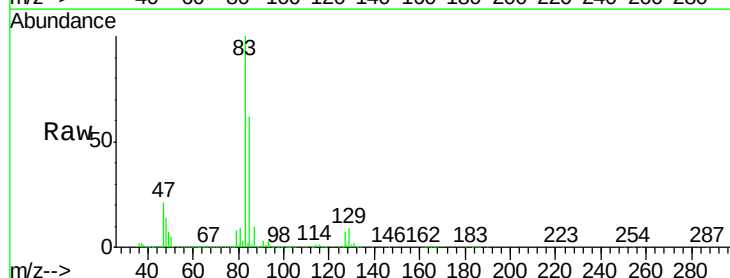
RT: 7.99 min Scan# 2146

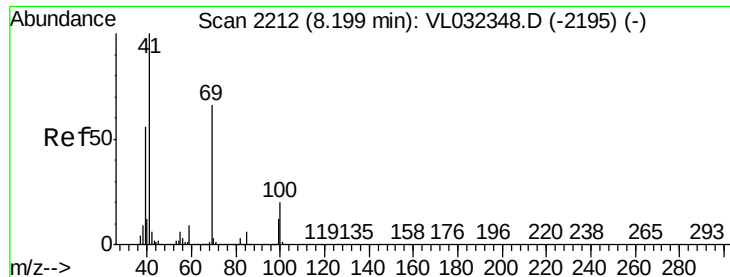
Delta R.T. 0.01 min

Lab File: VL032358.D

Acq: 15 Aug 2018 19:09

Tgt Ion:	83	Resp:	3248591
Ion	Ratio	Lower	Upper
83	100		
85	62.2	50.4	75.6
127	7.0	6.1	9.1





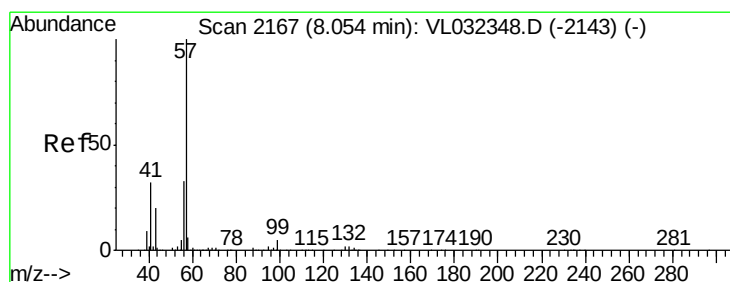
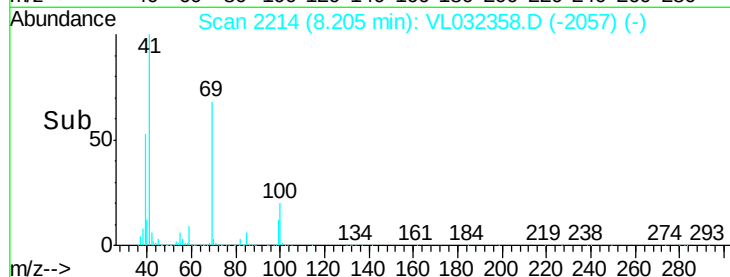
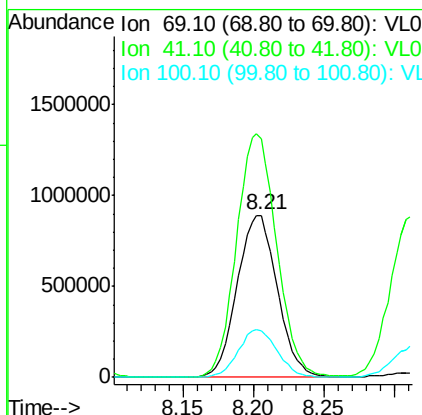
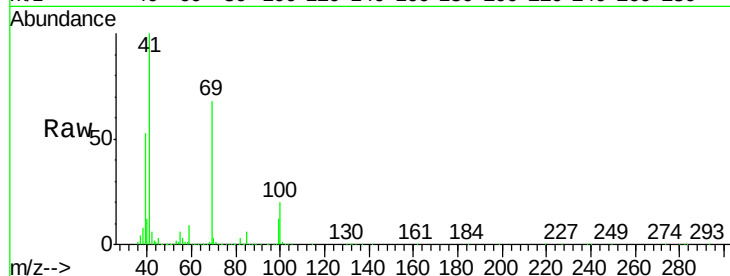
#43
Methyl Methacrylate
Concen: 10.56 ppbv
RT: 8.21 min Scan# 2214
Delta R.T. 0.01 min
Lab File: VL032358.D
Acq: 15 Aug 2018 19:09

Instrument :
MSVOA_L
ClientSampleId :
VL0815ABS02

Tot Ion: 69 Resp: 1777197
Ion Ratio Lower Upper
69 100
41 150.1 118.6 177.8
100 29.0 23.4 35.2

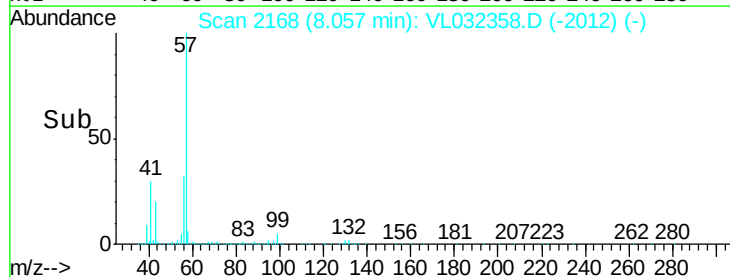
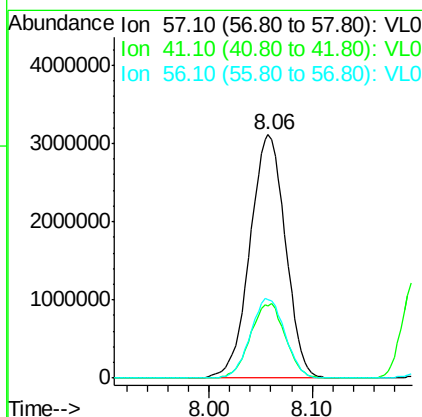
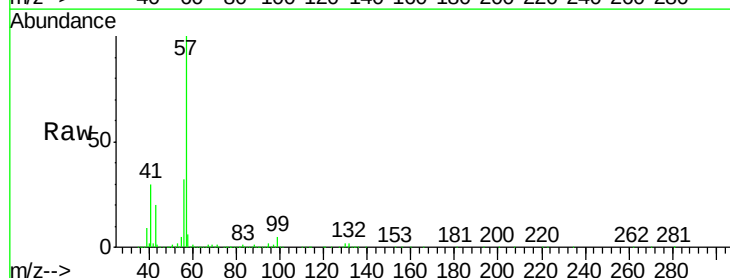
Manual Integrations
APPROVED

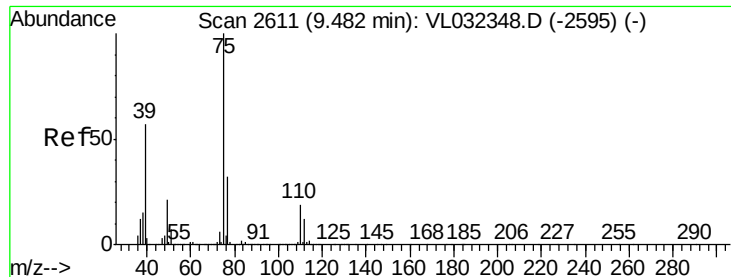
MMDadoda
8/17/2018 2:06:39 PM



#44
2,2,4-Trimethylpentane
Concen: 9.72 ppbv
RT: 8.06 min Scan# 2168
Delta R.T. 0.00 min
Lab File: VL032358.D
Acq: 15 Aug 2018 19:09

Tgt Ion: 57 Resp: 7401668
Ion Ratio Lower Upper
57 100
41 30.2 24.3 36.5
56 31.9 25.7 38.5





#45

t-1,3-Dichloropropene

Concen: 11.34 ppbv

RT: 9.49 min Scan# 2612

Delta R.T. 0.00 min

Lab File: VL032358.D

Acq: 15 Aug 2018 19:09

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS02

Tot Ion: 75 Resp: 2413607

Ion Ratio Lower Upper

75 100

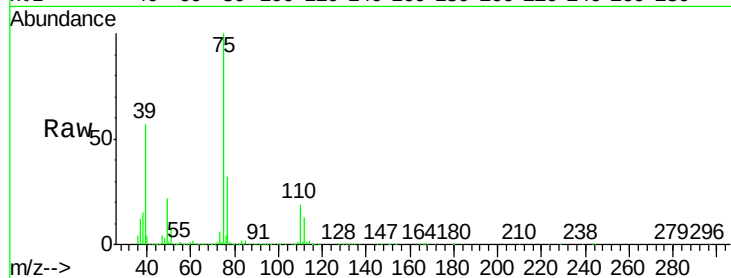
77 31.7 25.4 38.2

Manual Integrations

APPROVED

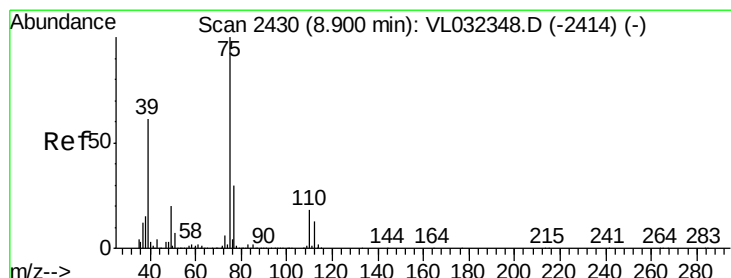
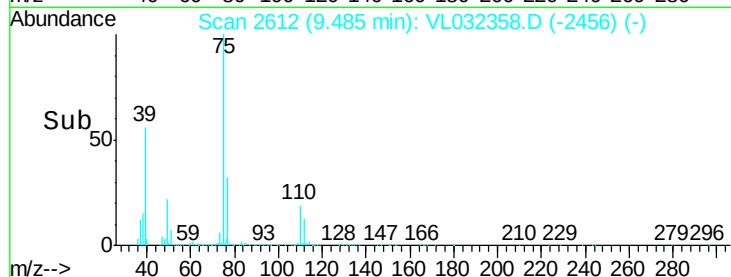
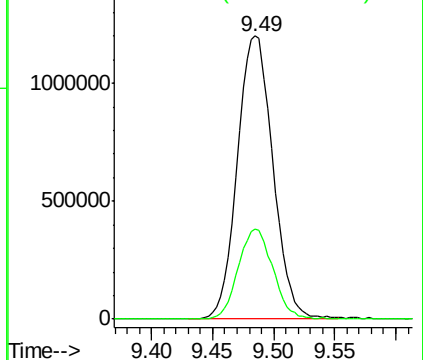
MMDadoda

8/17/2018 2:06:39 PM



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 11.12 ppbv

RT: 8.90 min Scan# 2431

Delta R.T. 0.00 min

Lab File: VL032358.D

Acq: 15 Aug 2018 19:09

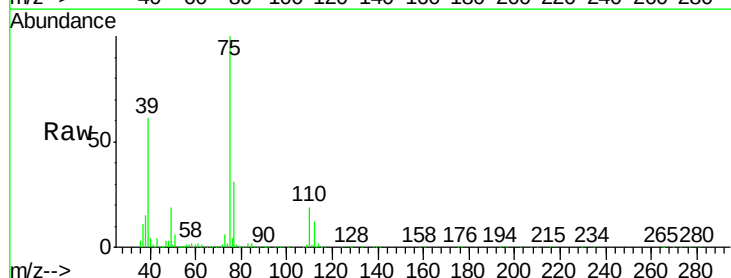
Tgt Ion: 75 Resp: 2839128

Ion Ratio Lower Upper

75 100

39 61.3 48.5 72.7

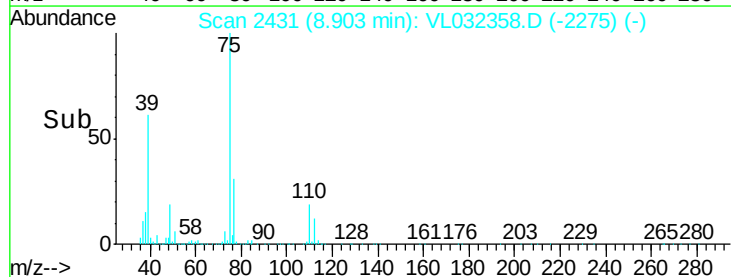
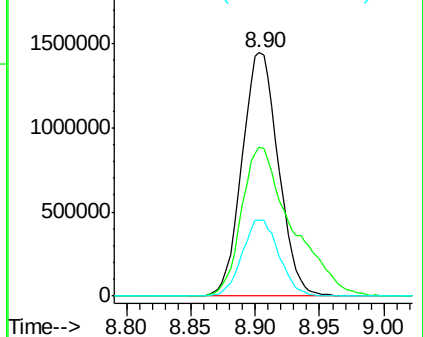
77 31.0 24.3 36.5

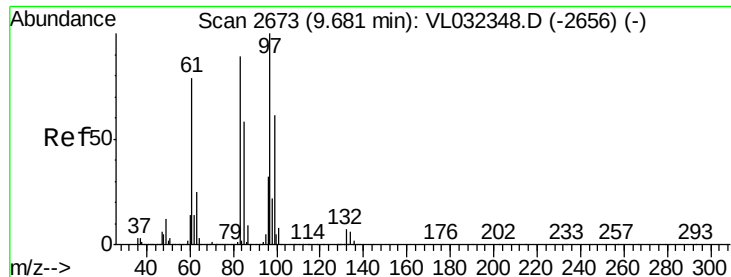


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





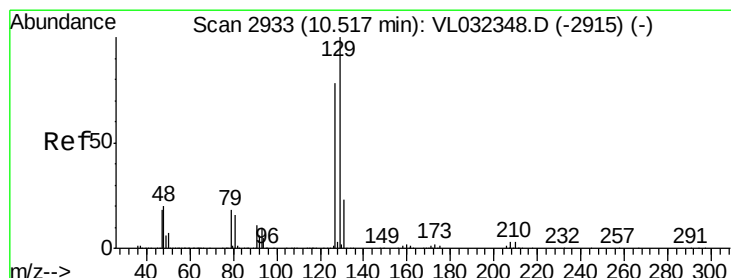
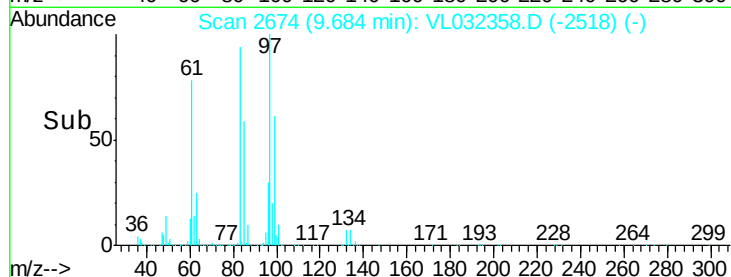
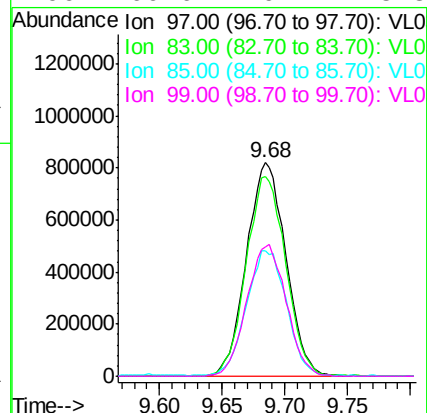
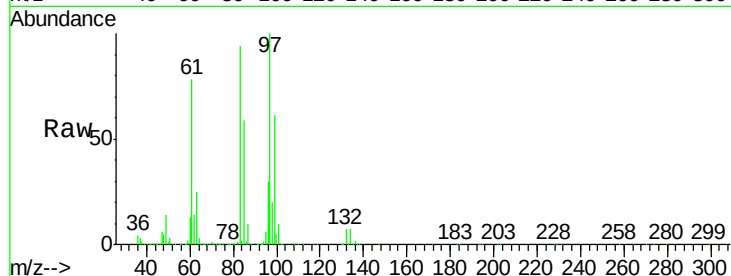
#47
 1,1,2-Trichloroethane
 Concen: 9.20 ppbv
 RT: 9.68 min Scan# 2674
 Delta R.T. 0.00 min
 Lab File: VL032358.D
 Acq: 15 Aug 2018 19:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0815ABS02

Tot Ion	Ratio	Lower	Upper
97	100		
83	93.7	71.2	106.8
85	58.3	46.6	69.8
99	60.6	49.2	73.8

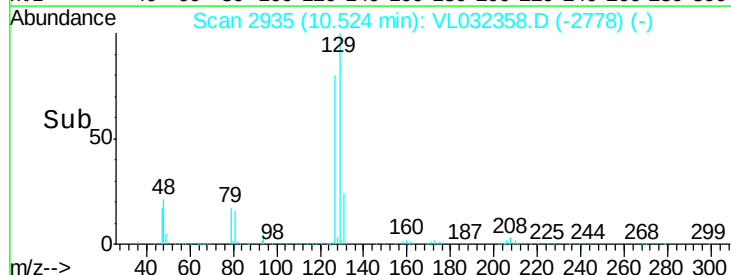
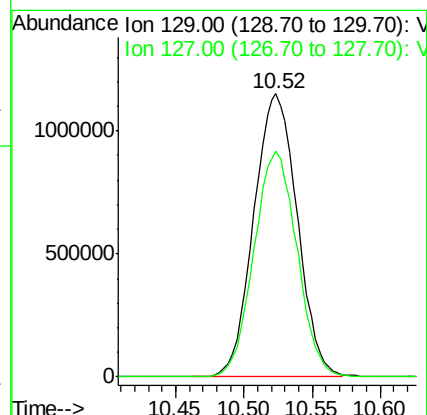
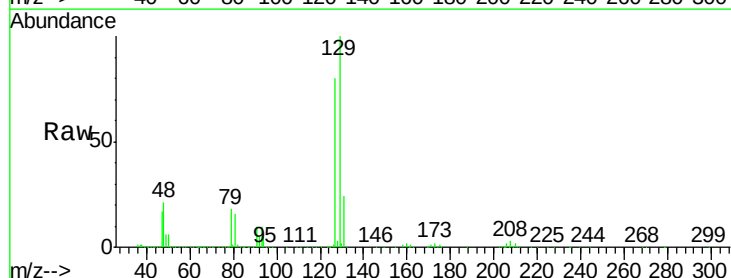
Manual Integrations
 APPROVED

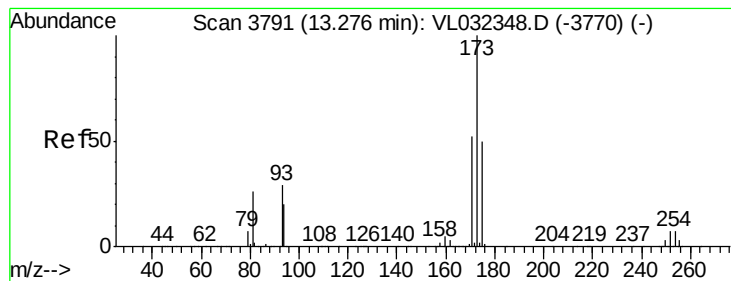
MMDadoda
 8/17/2018 2:06:39 PM



#48
 Dibromochloromethane
 Concen: 9.79 ppbv
 RT: 10.52 min Scan# 2935
 Delta R.T. 0.01 min
 Lab File: VL032358.D
 Acq: 15 Aug 2018 19:09

Tgt Ion	Ratio	Lower	Upper
129	100		
127	79.2	39.3	117.9





#49

Bromoform

Concen: 9.77 ppbv

RT: 13.28 min Scan# 3791

Delta R.T. -0.00 min

Lab File: VL032358.D

Acq: 15 Aug 2018 19:09

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS02

Tot Ion:173 Resp: 2107700

Ion Ratio Lower Upper

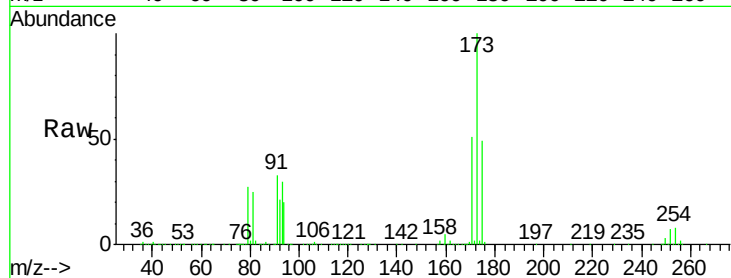
173 100

175 48.6 39.3 58.9

171 51.6 41.9 62.9

Manual Integrations
APPROVED

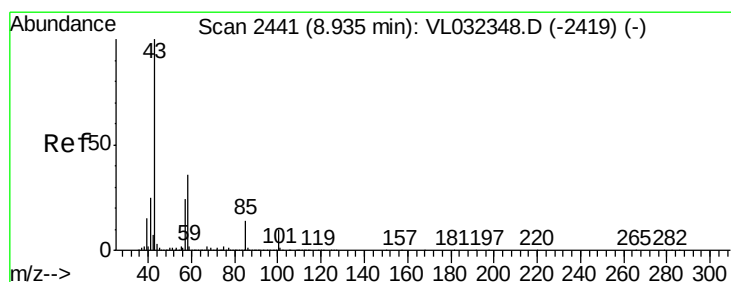
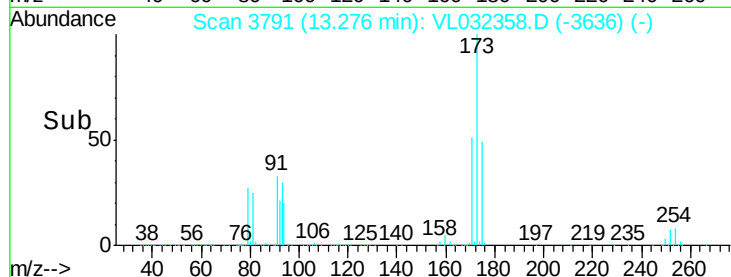
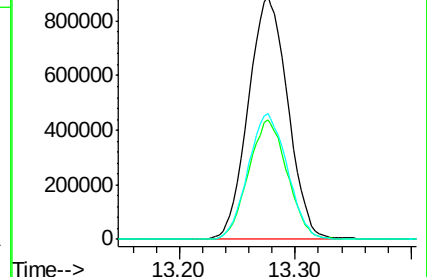
MMDadoda
8/17/2018 2:06:39 PM



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: 10.14 ppbv

RT: 8.94 min Scan# 2441

Delta R.T. -0.00 min

Lab File: VL032358.D

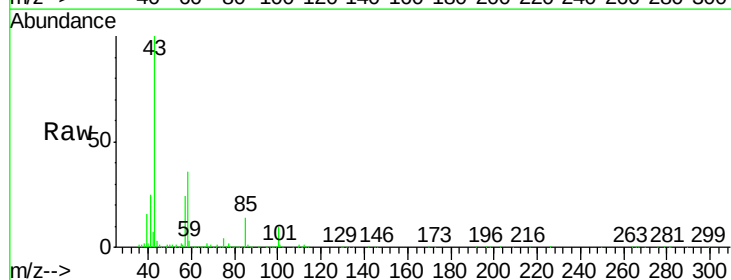
Acq: 15 Aug 2018 19:09

Tgt Ion: 43 Resp: 4965729

Ion Ratio Lower Upper

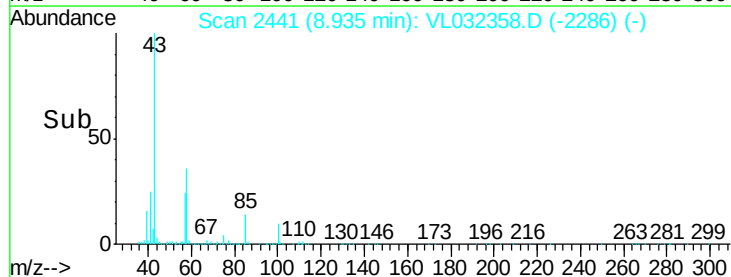
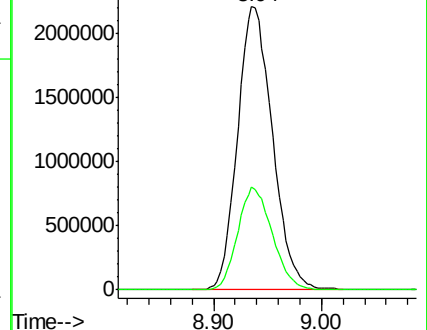
43 100

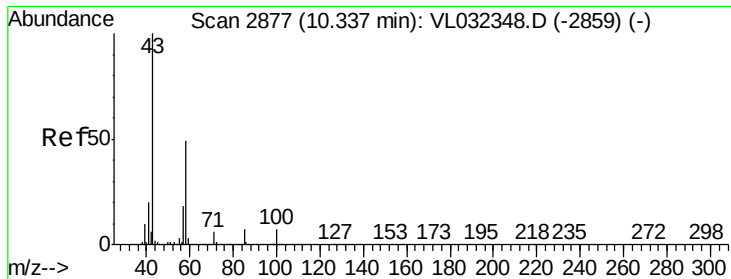
58 36.1 28.9 43.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





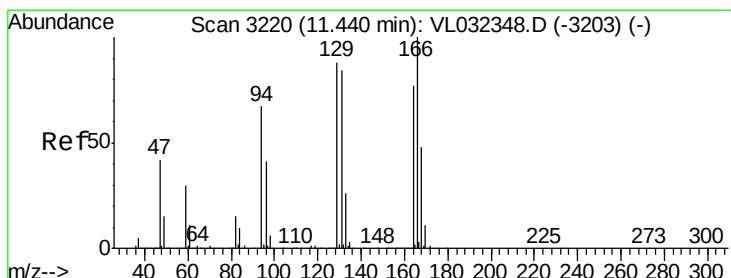
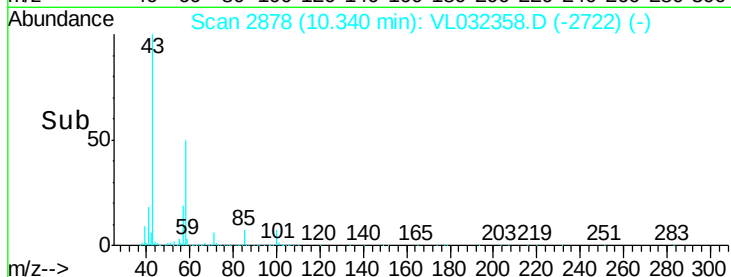
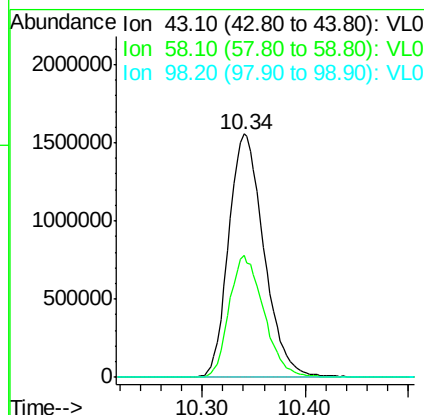
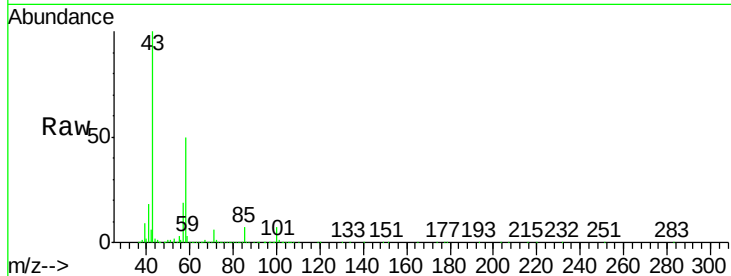
#51
2-Hexanone
Concen: 10.77 ppbv
RT: 10.34 min Scan# 2878
Delta R.T. 0.00 min
Lab File: VL032358.D
Acq: 15 Aug 2018 19:09

Instrument :
MSVOA_L
ClientSampleId :
VL0815ABS02

Tot Ion	Ratio	Lower	Upper
43	100		
58	49.1	39.5	59.3
98	0.4	0.3	0.5

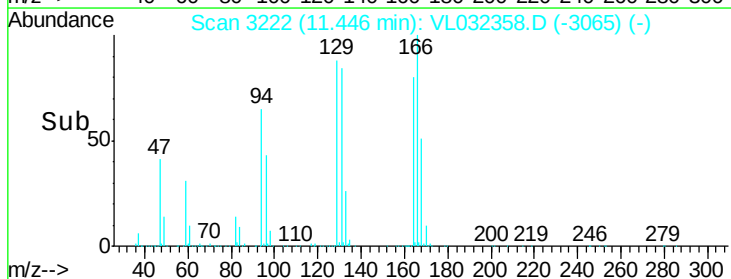
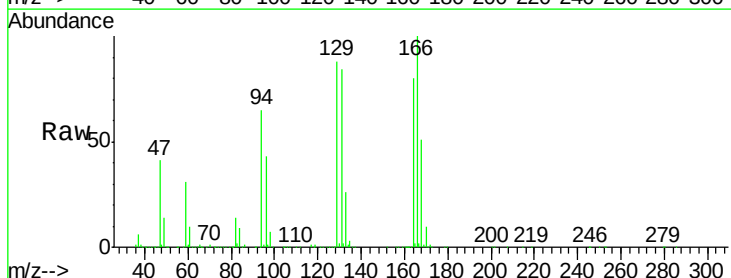
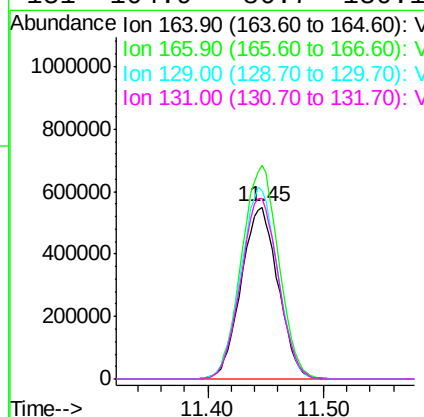
Manual Integrations
APPROVED

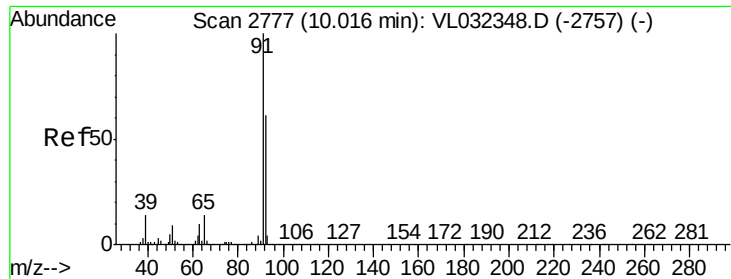
MMDadoda
8/17/2018 2:06:39 PM



#52
Tetrachloroethene
Concen: 9.74 ppbv
RT: 11.45 min Scan# 3222
Delta R.T. 0.01 min
Lab File: VL032358.D
Acq: 15 Aug 2018 19:09

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.3	103.5	155.3
129	109.7	90.9	136.3
131	104.9	86.7	130.1





#53

Toluene

Concen: 10.54 ppbv

RT: 10.02 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VL032358.D

Acq: 15 Aug 2018 19:09

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS02

Tot Ion: 91 Resp: 4881269

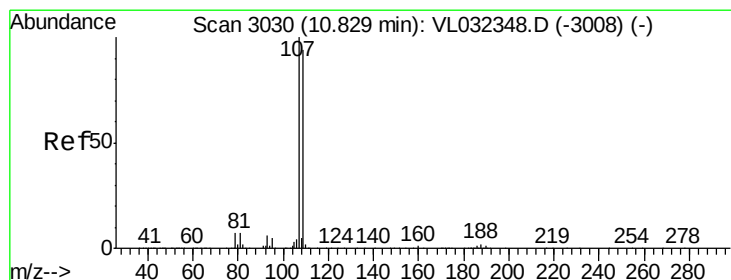
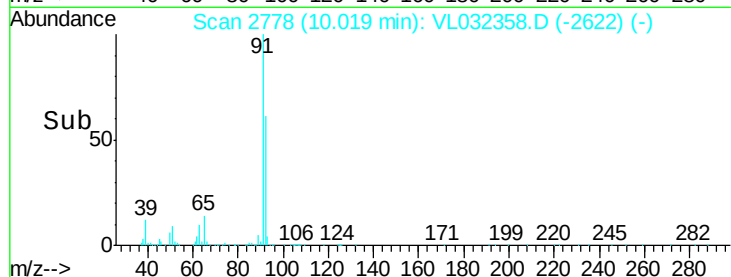
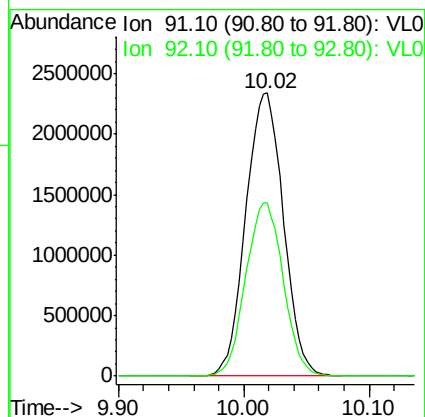
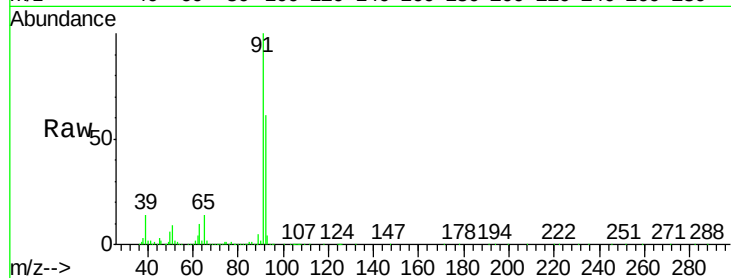
Ion Ratio Lower Upper

91 100

92 61.0 48.7 73.1

Manual Integrations
APPROVED

MMDadoda
8/17/2018 2:06:39 PM



#54

1,2-Dibromoethane

Concen: 9.74 ppbv

RT: 10.83 min Scan# 3031

Delta R.T. 0.00 min

Lab File: VL032358.D

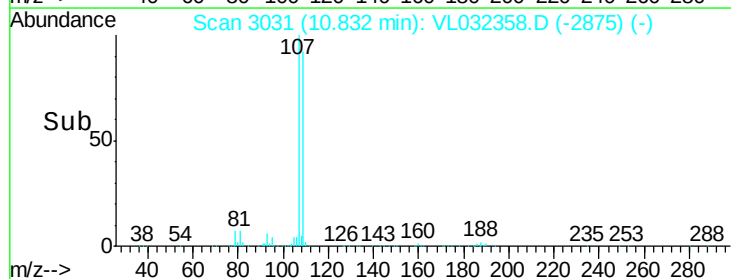
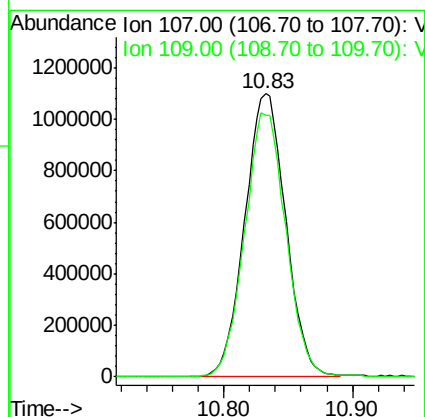
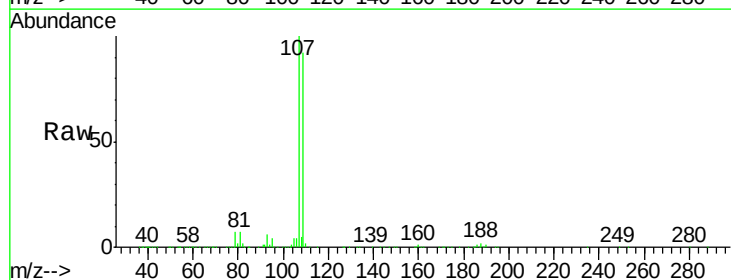
Acq: 15 Aug 2018 19:09

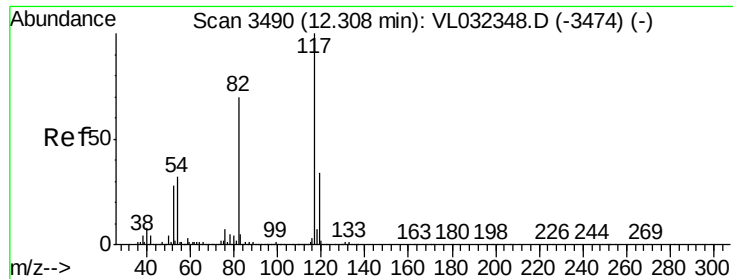
Tgt Ion: 107 Resp: 2430005

Ion Ratio Lower Upper

107 100

109 92.4 74.9 112.3





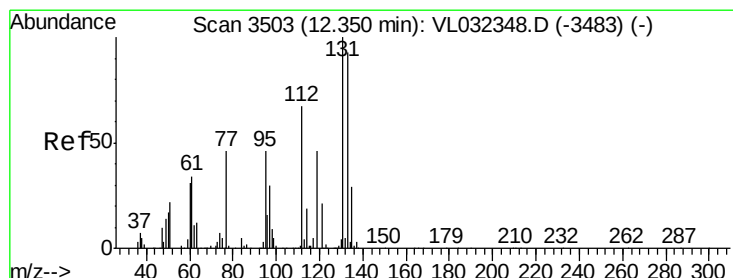
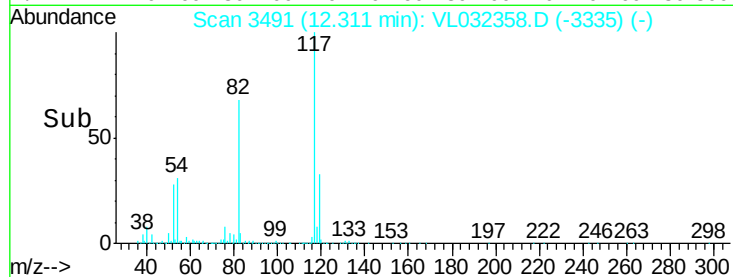
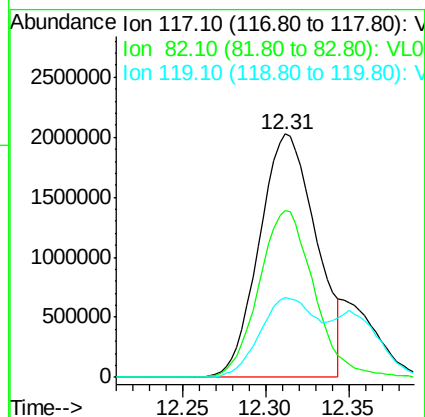
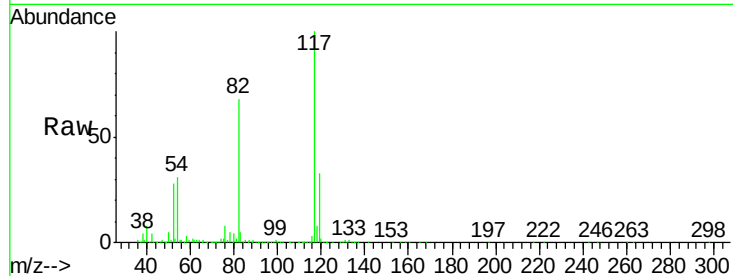
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.31 min Scan# 3491
Delta R.T. 0.00 min
Lab File: VL032358.D
Acq: 15 Aug 2018 19:09

Instrument :
MSVOA_L
ClientSampleId :
VL0815ABS02

Tot Ion:117 Resp: 4838398
Ion Ratio Lower Upper
117 100
82 66.5 55.1 82.7
119 55.0 46.0 69.0

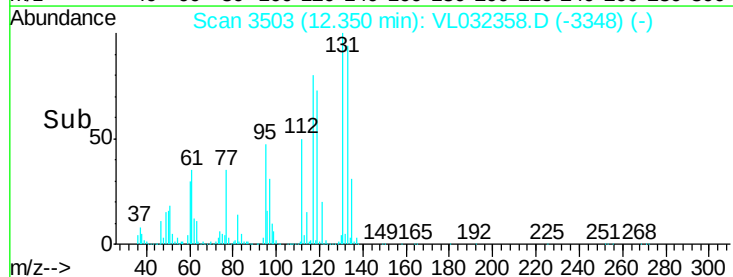
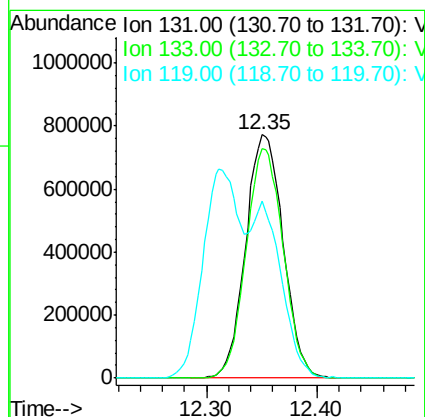
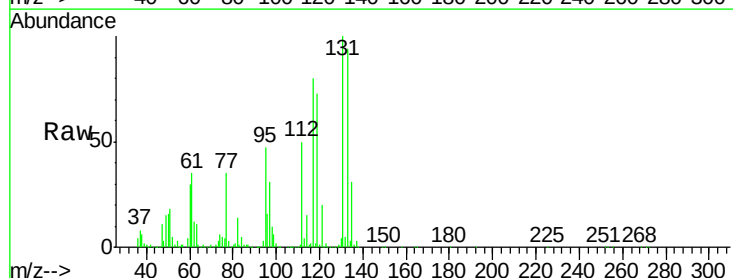
Manual Integrations
APPROVED

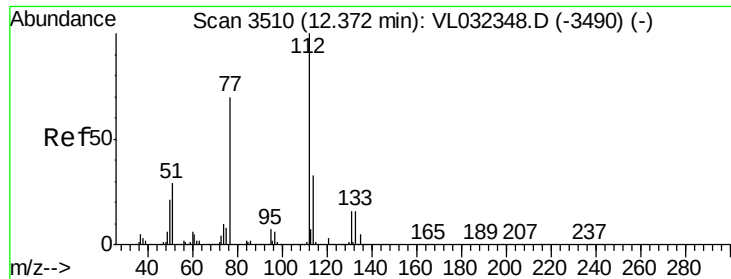
MMDadoda
8/17/2018 2:06:39 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 9.09 ppbv
RT: 12.35 min Scan# 3503
Delta R.T. -0.00 min
Lab File: VL032358.D
Acq: 15 Aug 2018 19:09

Tgt Ion:131 Resp: 1820145
Ion Ratio Lower Upper
131 100
133 93.8 75.7 113.5
119 146.1 116.0 174.0





#57

Chlorobenzene

Concen: 9.10 ppbv

RT: 12.38 min Scan# 3511

Delta R.T. 0.00 min

Lab File: VL032358.D

Acq: 15 Aug 2018 19:09

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS02

Tot Ion:112 Resp: 3313102

Ion Ratio Lower Upper

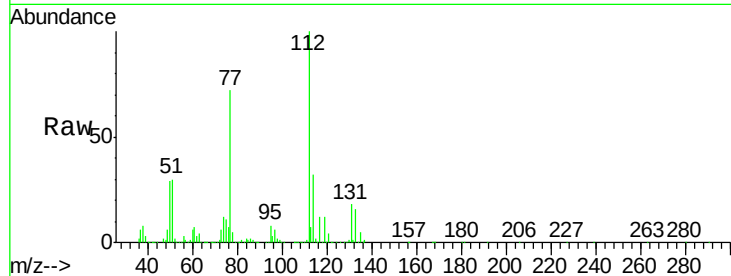
112 100

77 71.7 56.6 84.8

114 31.7 29.4 36.0

Manual Integrations
APPROVED

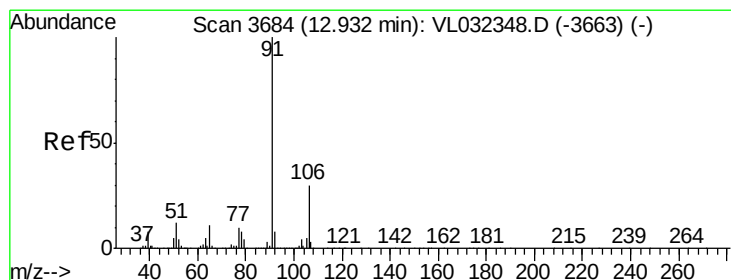
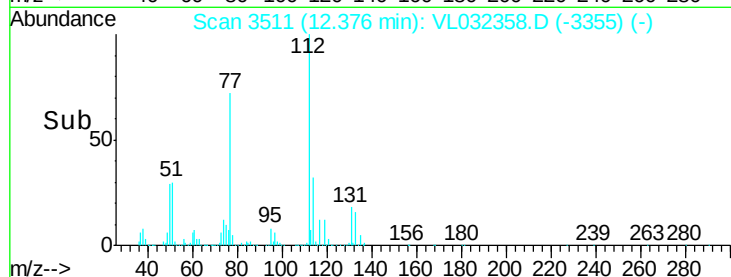
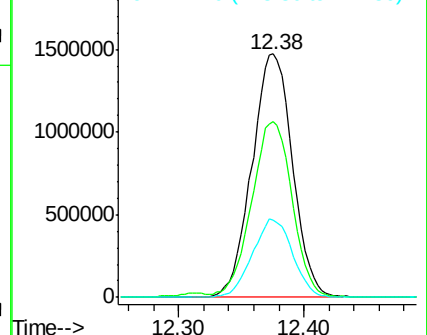
MMDadoda
8/17/2018 2:06:39 PM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.46 ppbv

RT: 12.94 min Scan# 3685

Delta R.T. 0.00 min

Lab File: VL032358.D

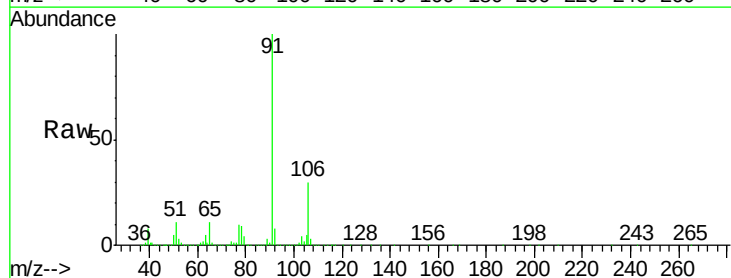
Acq: 15 Aug 2018 19:09

Tgt Ion: 91 Resp: 6086617

Ion Ratio Lower Upper

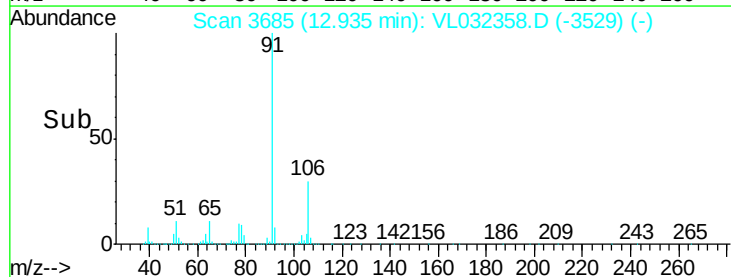
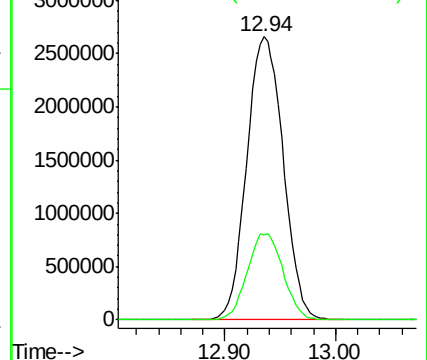
91 100

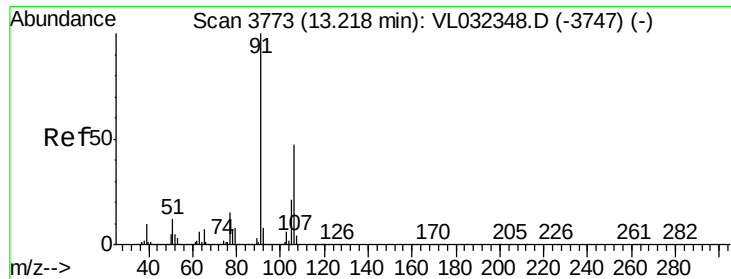
106 30.0 24.3 36.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





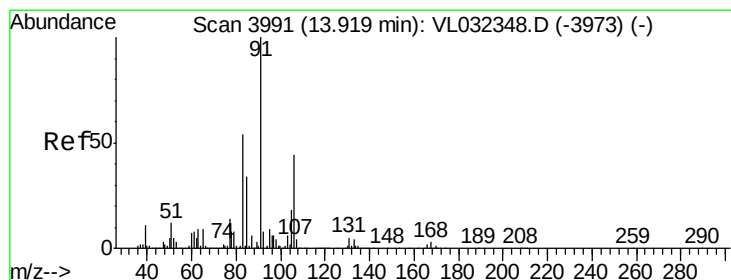
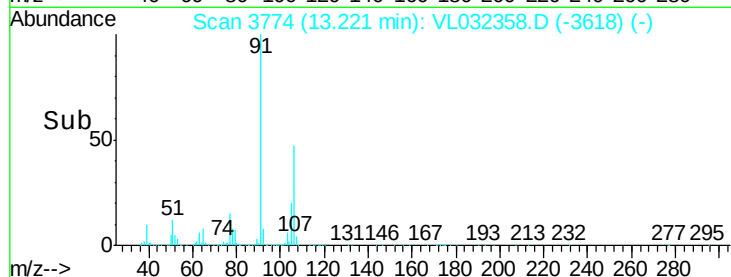
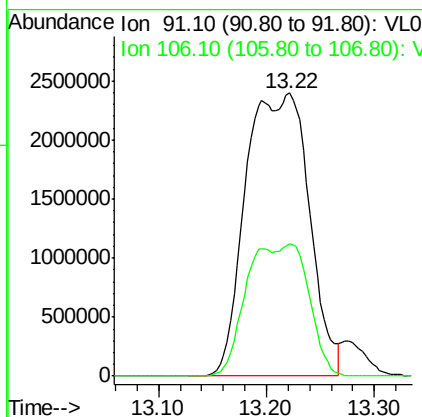
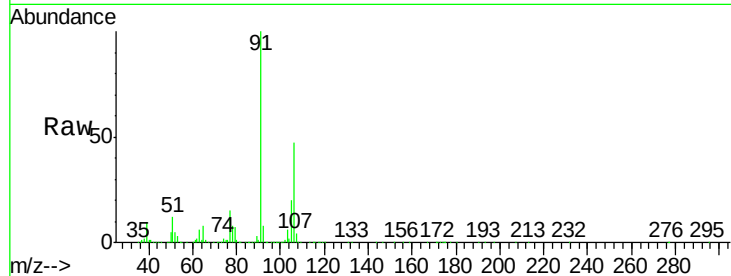
#59
m/p-Xylene
Concen: 19.77 ppbv m
RT: 13.22 min Scan# 3774
Delta R.T. 0.00 min
Lab File: VL032358.D
Acq: 15 Aug 2018 19:09

Instrument :
MSVOA_L
ClientSampleId :
VL0815ABS02

Tot Ion: 91 Resp: 9775239
Ion Ratio Lower Upper
91 100
106 45.9 37.0 55.4

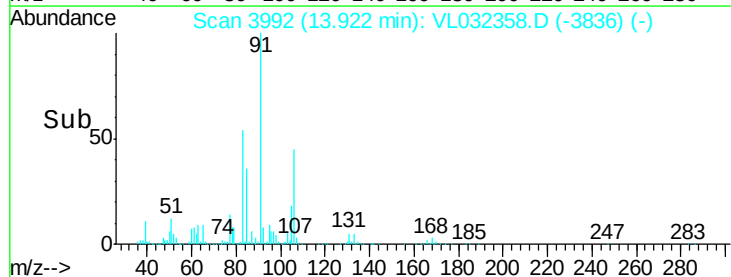
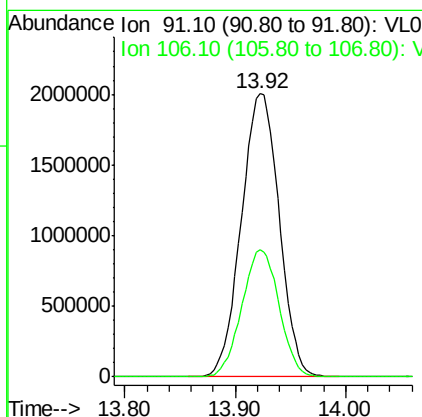
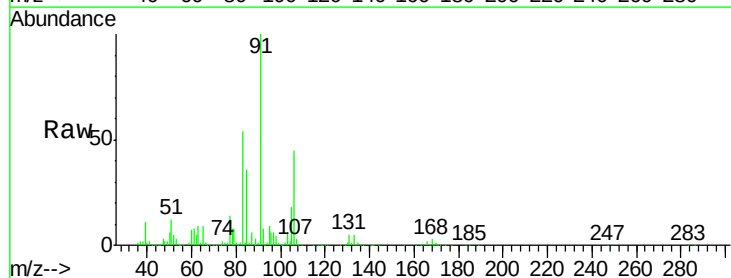
Manual Integrations
APPROVED

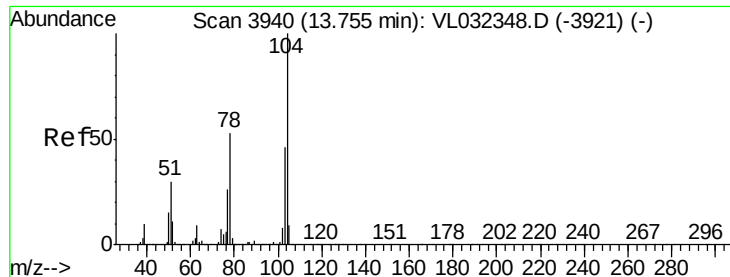
MMDadoda
8/17/2018 2:06:39 PM



#60
o-Xylene
Concen: 9.84 ppbv
RT: 13.92 min Scan# 3992
Delta R.T. 0.00 min
Lab File: VL032358.D
Acq: 15 Aug 2018 19:09

Tgt Ion: 91 Resp: 4781655
Ion Ratio Lower Upper
91 100
106 44.1 22.3 66.8





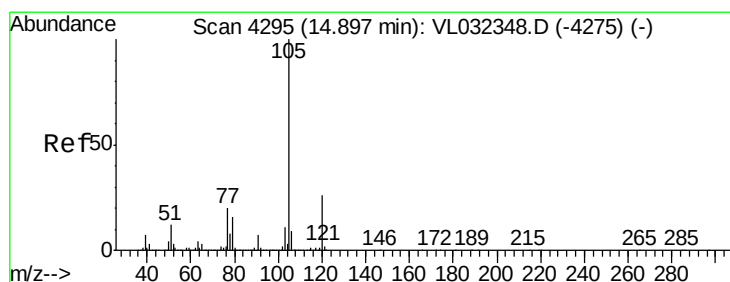
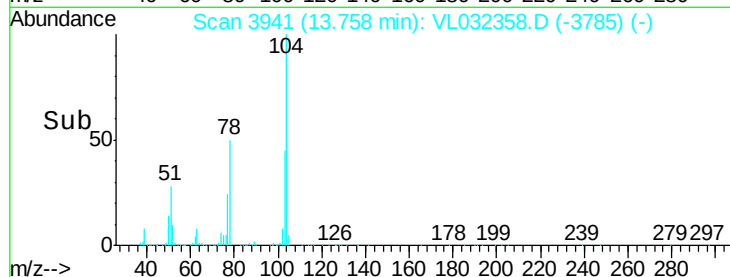
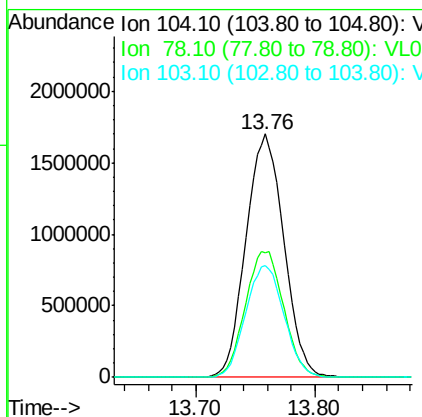
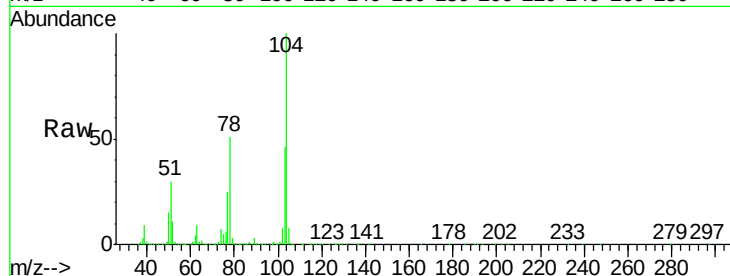
#61
Stvrene
Concen: 11.05 ppbv
RT: 13.76 min Scan# 3941
Delta R.T. 0.00 min
Lab File: VL032358.D
Acq: 15 Aug 2018 19:09

Instrument :
MSVOA_L
ClientSampleId :
VL0815ABS02

Tot Ion:104 Resp: 3752514
Ion Ratio Lower Upper
104 100
78 52.6 42.6 64.0
103 46.9 38.0 57.0

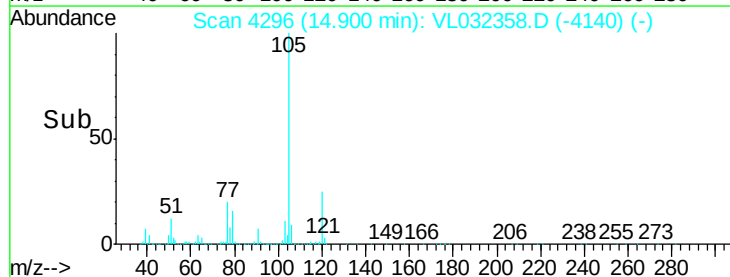
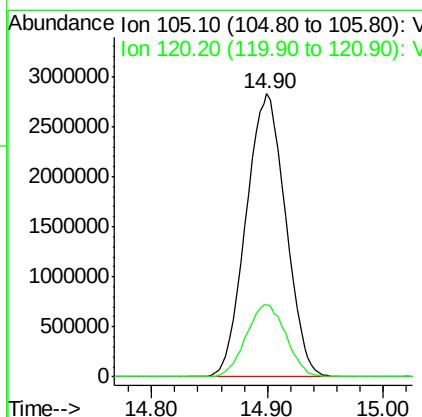
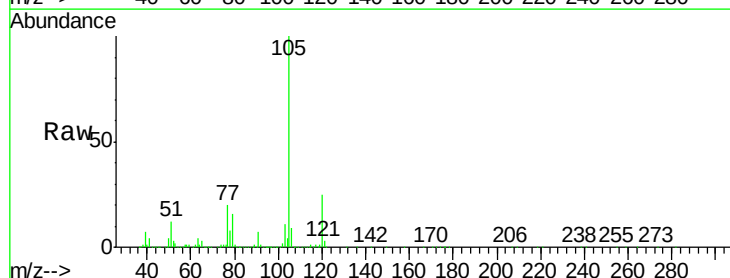
Manual Integrations
APPROVED

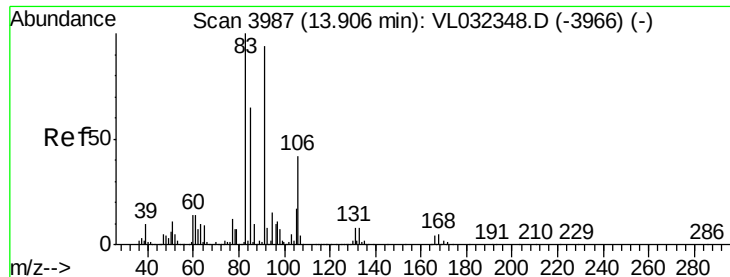
MMDadoda
8/17/2018 2:06:39 PM



#62
Isopropylbenzene
Concen: 9.71 ppbv
RT: 14.90 min Scan# 4296
Delta R.T. 0.00 min
Lab File: VL032358.D
Acq: 15 Aug 2018 19:09

Tgt Ion:105 Resp: 6715933
Ion Ratio Lower Upper
105 100
120 25.7 20.6 30.8





#63

1,1,2,2-Tetrachloroethane

Concen: 8.81 ppbv

RT: 13.91 min Scan# 3988

Delta R.T. 0.00 min

Lab File: VL032358.D

Acq: 15 Aug 2018 19:09

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS02

Tot Ion: 83 Resp: 3600080

Ion Ratio Lower Upper

83 100

131 8.4 4.3 12.8

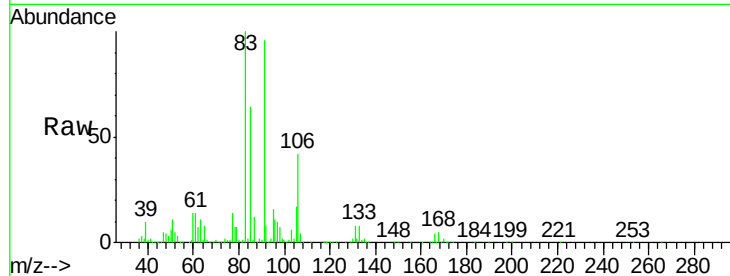
85 64.5 32.4 97.2

Manual Integrations

APPROVED

MMDadoda

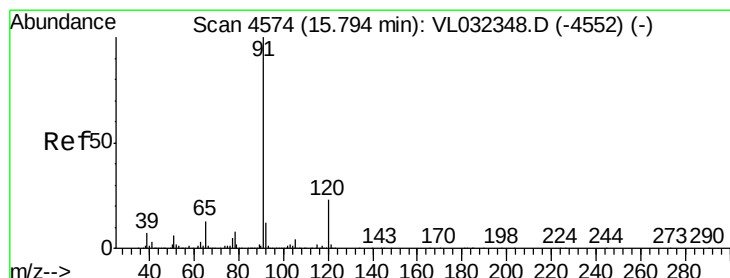
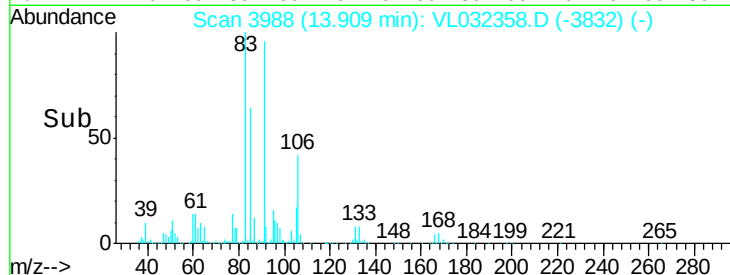
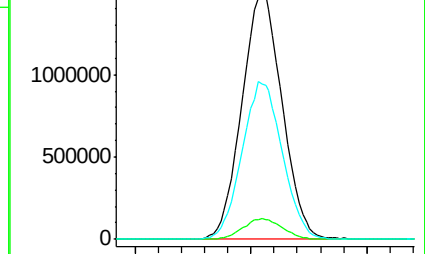
8/17/2018 2:06:39 PM



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: 9.87 ppbv

RT: 15.80 min Scan# 4575

Delta R.T. 0.00 min

Lab File: VL032358.D

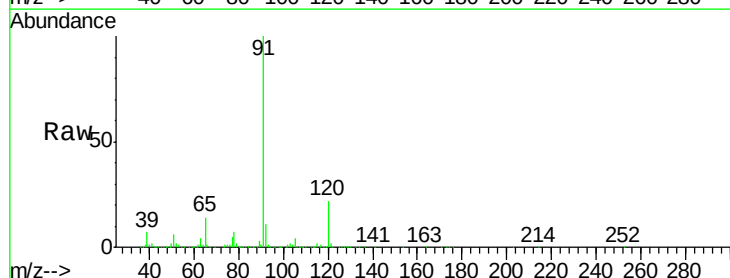
Acq: 15 Aug 2018 19:09

Tgt Ion:120 Resp: 1766624

Ion Ratio Lower Upper

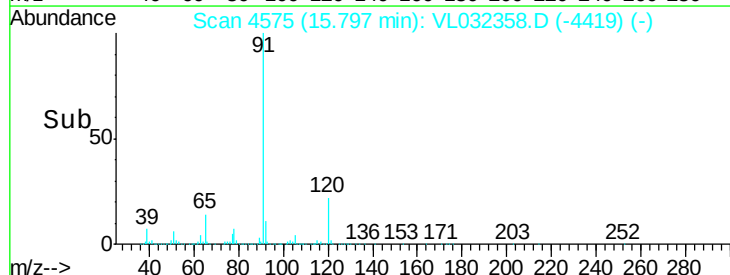
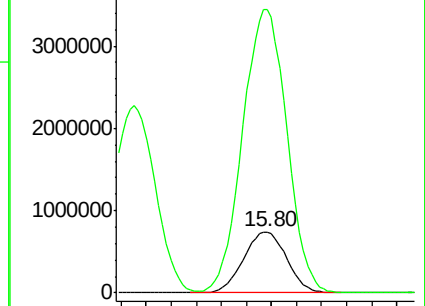
120 100

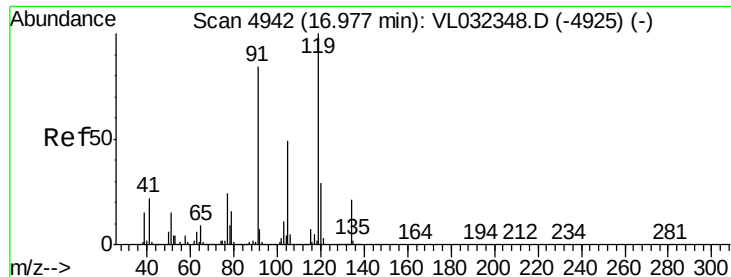
91 477.2 382.2 573.2



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 9.36 ppbv

RT: 16.98 min Scan# 4943

Delta R.T. 0.00 min

Lab File: VL032358.D

Acq: 15 Aug 2018 19:09

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS02

Tot Ion:119 Resp: 5531612

Ion Ratio Lower Upper

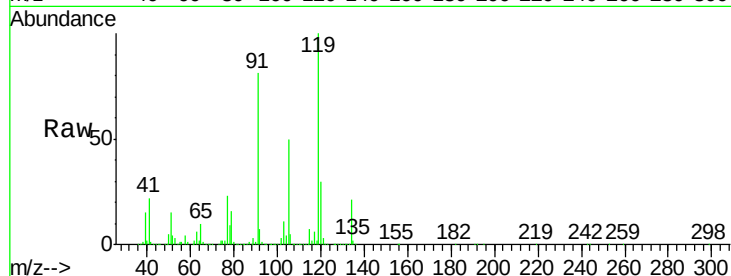
119 100

91 84.0 67.4 101.0

134 19.8 15.8 23.6

Manual Integrations
APPROVED

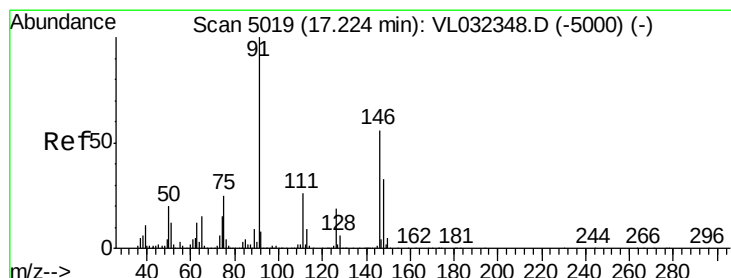
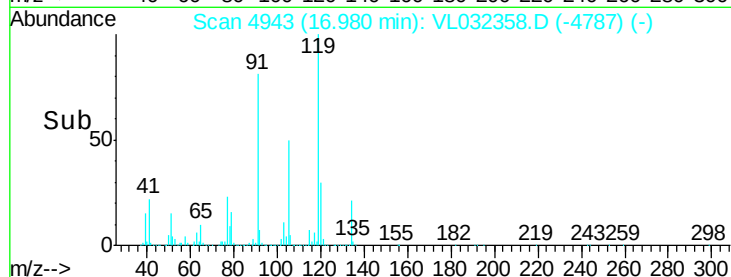
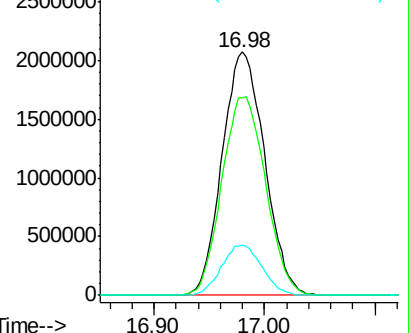
MMDadoda
8/17/2018 2:06:39 PM



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 10.53 ppbv

RT: 17.23 min Scan# 5021

Delta R.T. 0.01 min

Lab File: VL032358.D

Acq: 15 Aug 2018 19:09

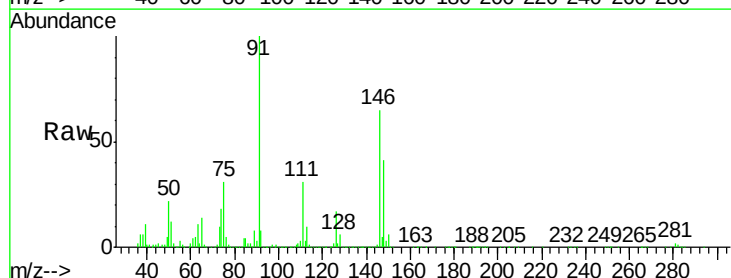
Tgt Ion: 91 Resp: 3684316

Ion Ratio Lower Upper

91 100

126 17.3 14.2 21.4

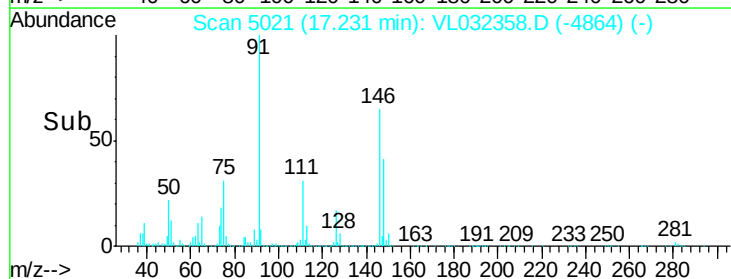
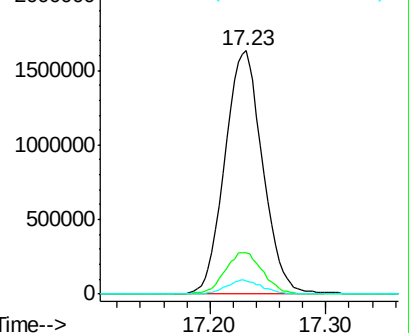
128 5.5 4.5 6.7

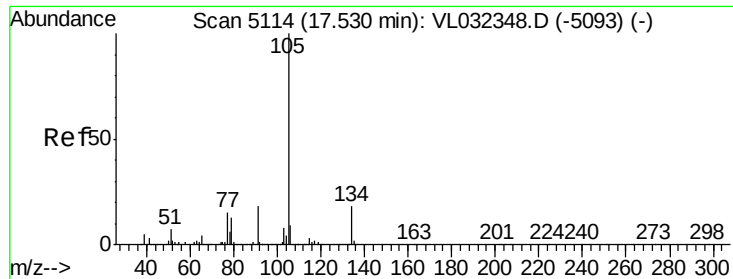


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.55 ppbv

RT: 17.53 min Scan# 5115

Delta R.T. 0.00 min

Lab File: VL032358.D

Acq: 15 Aug 2018 19:09

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS02

Tot Ion: 105 Resp: 8392922

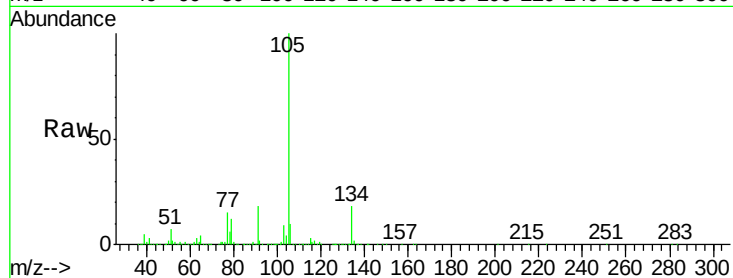
Ion Ratio Lower Upper

105 100

134 17.8 14.4 21.6

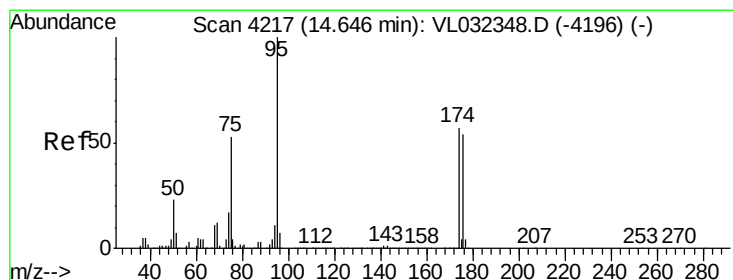
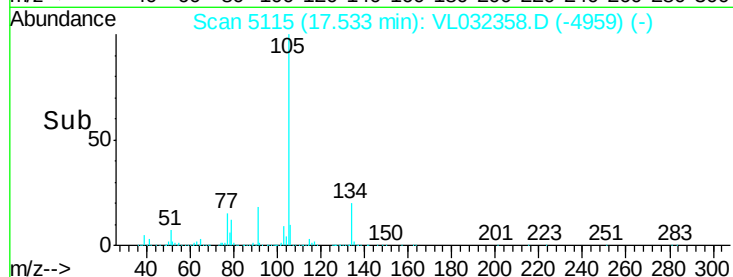
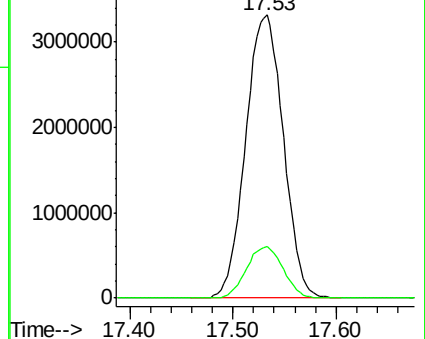
Manual Integrations
APPROVED

MMDadoda
8/17/2018 2:06:39 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: 9.95 ppbv

RT: 14.65 min Scan# 4219

Delta R.T. 0.01 min

Lab File: VL032358.D

Acq: 15 Aug 2018 19:09

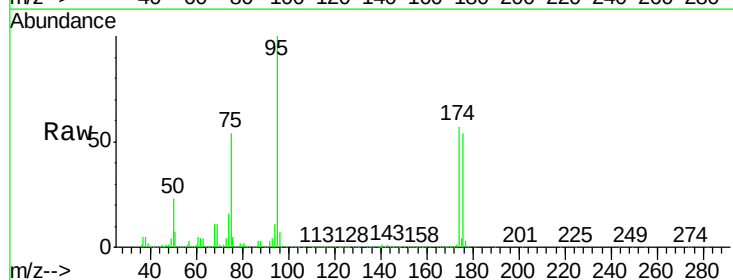
Tgt Ion: 95 Resp: 3672072

Ion Ratio Lower Upper

95 100

174 56.7 46.2 69.4

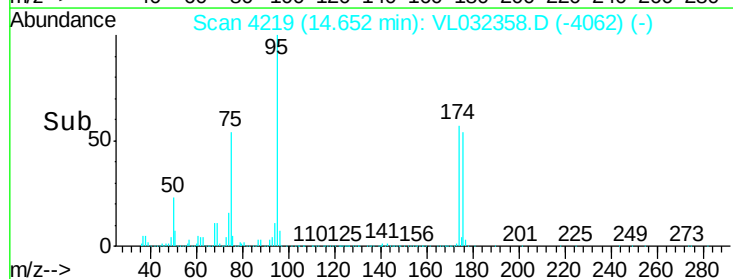
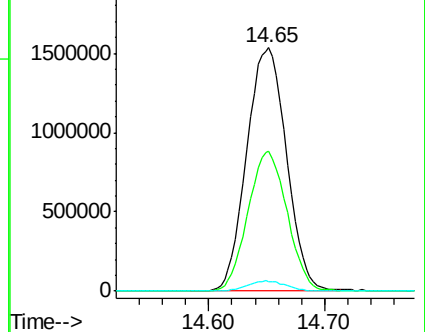
175 4.1 3.4 5.0

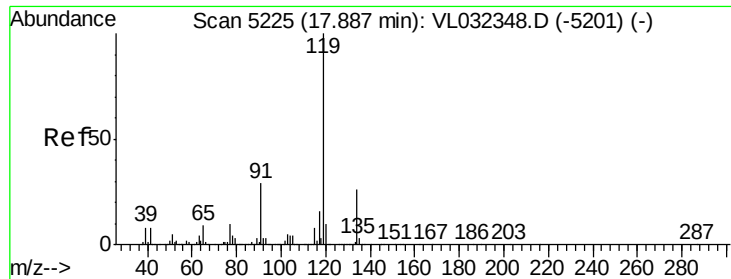


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





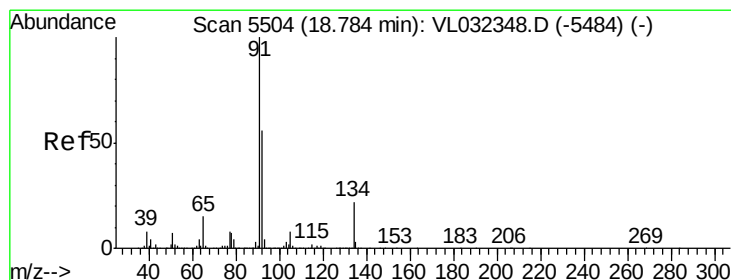
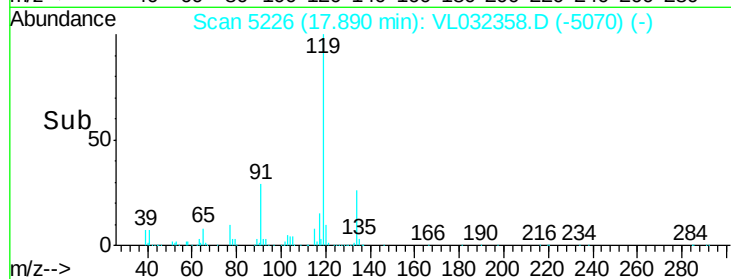
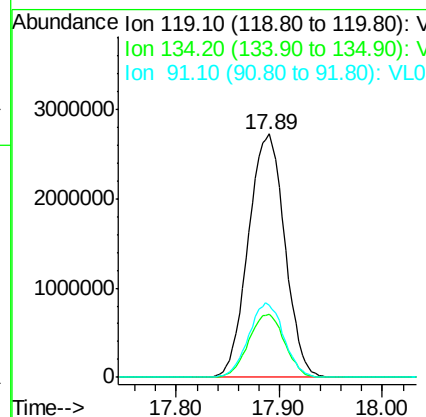
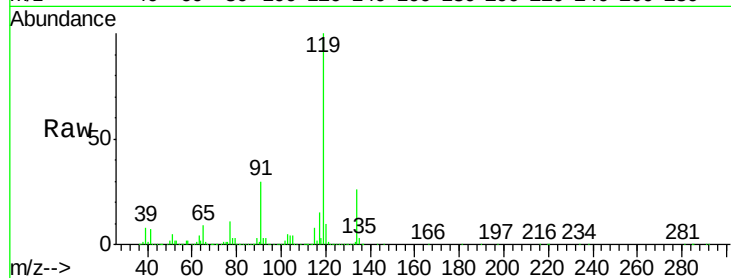
#69
 p-Isopropyltoluene
 Concen: 9.94 ppbv
 RT: 17.89 min Scan# 5226
 Delta R.T. 0.00 min
 Lab File: VL032358.D
 Acq: 15 Aug 2018 19:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0815ABS02

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.6	20.4	30.6
91	29.5	23.6	35.4

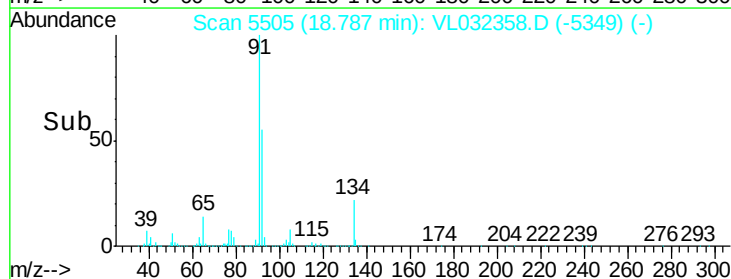
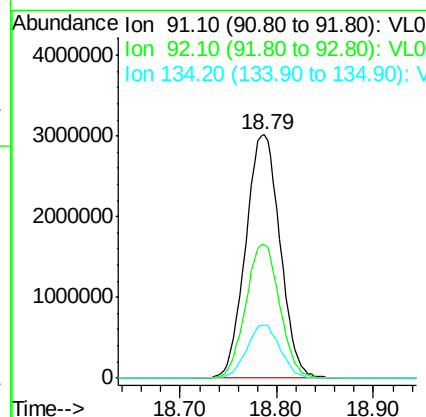
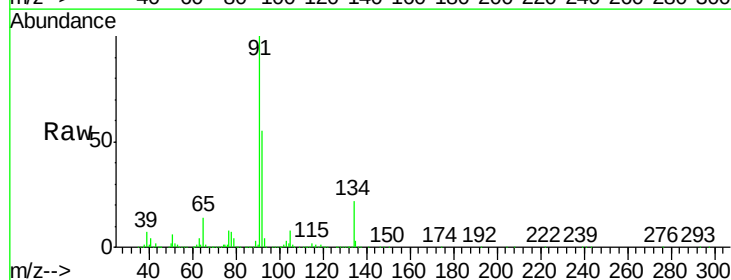
Manual Integrations
 APPROVED

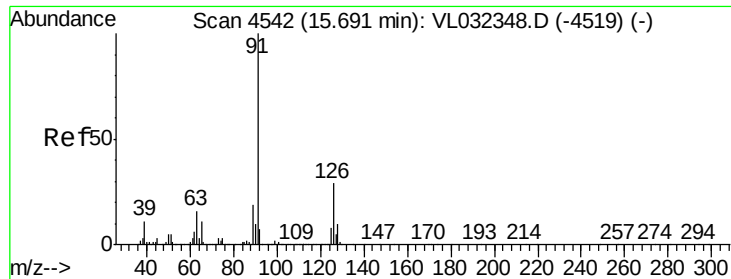
MMDadoda
 8/17/2018 2:06:39 PM



#70
 n-Butylbenzene
 Concen: 10.07 ppbv
 RT: 18.79 min Scan# 5505
 Delta R.T. 0.00 min
 Lab File: VL032358.D
 Acq: 15 Aug 2018 19:09

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.4	43.9	65.9
134	21.3	17.3	25.9





#71

2-Chlorotoluene

Concen: 10.07 ppbv

RT: 15.69 min Scan# 4542

Delta R.T. -0.00 min

Lab File: VL032358.D

Acq: 15 Aug 2018 19:09

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS02

Tot Ion: 91 Resp: 5392066

Ion Ratio Lower Upper

91 100

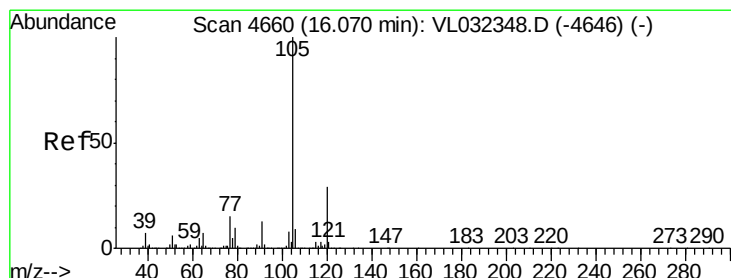
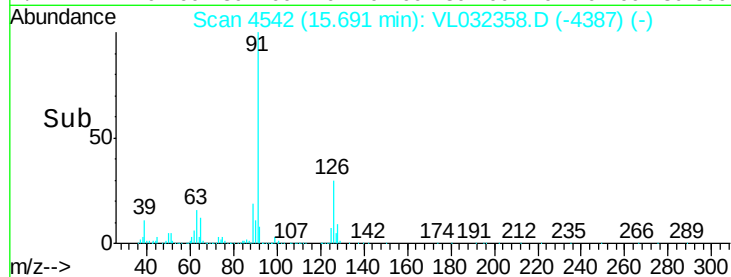
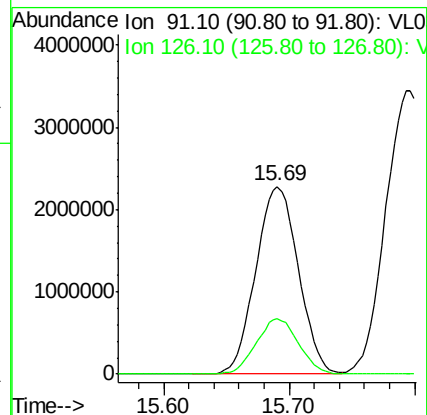
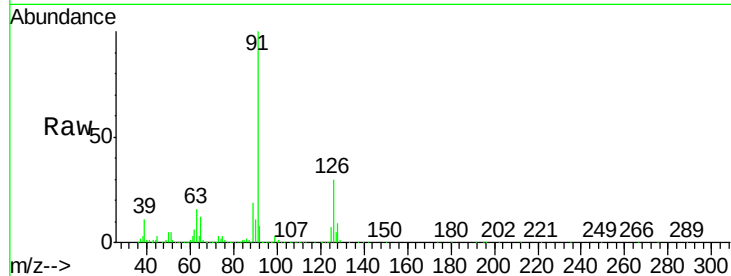
126 29.3 11.8 47.2

Manual Integrations

APPROVED

MMDadoda

8/17/2018 2:06:39 PM



#72

4-Ethyltoluene

Concen: 10.27 ppbv

RT: 16.07 min Scan# 4661

Delta R.T. 0.00 min

Lab File: VL032358.D

Acq: 15 Aug 2018 19:09

Tgt Ion:105 Resp: 5568181

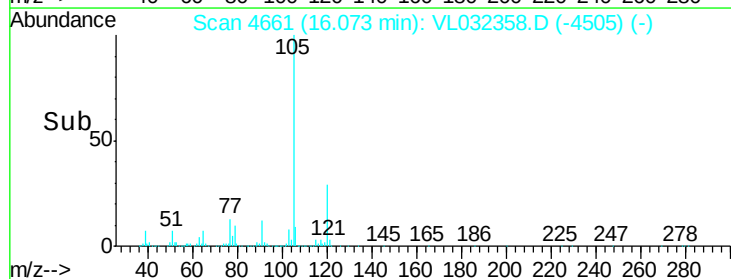
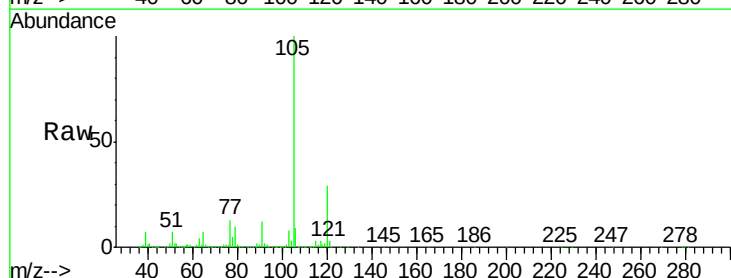
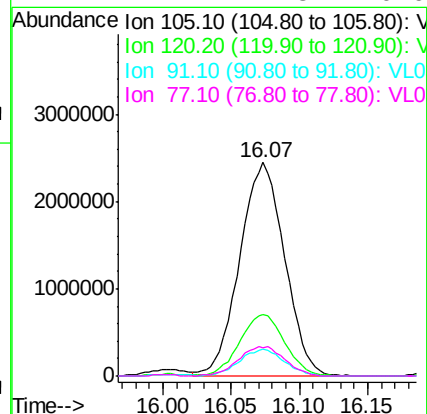
Ion Ratio Lower Upper

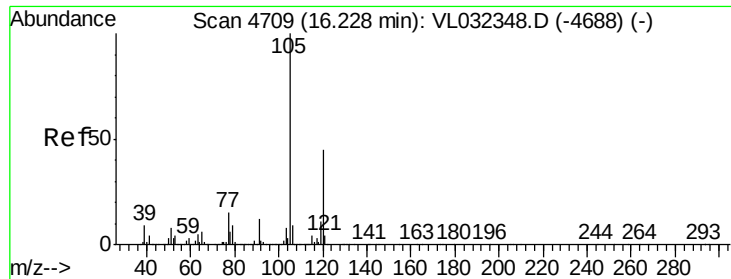
105 100

120 29.2 23.4 35.0

91 12.5 10.0 15.0

77 14.2 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 10.30 ppbv

RT: 16.23 min Scan# 4710

Delta R.T. 0.00 min

Lab File: VL032358.D

Acq: 15 Aug 2018 19:09

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS02

Tot Ion:105 Resp: 5371209

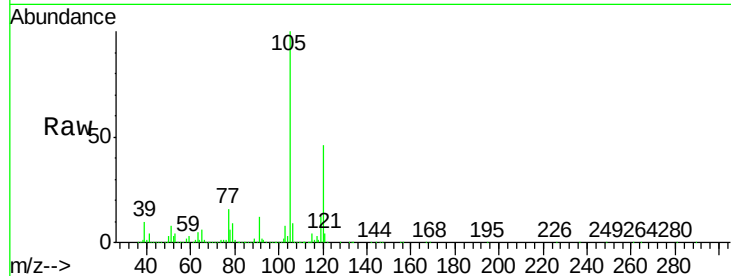
Ion Ratio Lower Upper

105 100

120 45.9 36.3 54.5

Manual Integrations
APPROVED

MMDadoda
8/17/2018 2:06:39 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.23

2500000

2000000

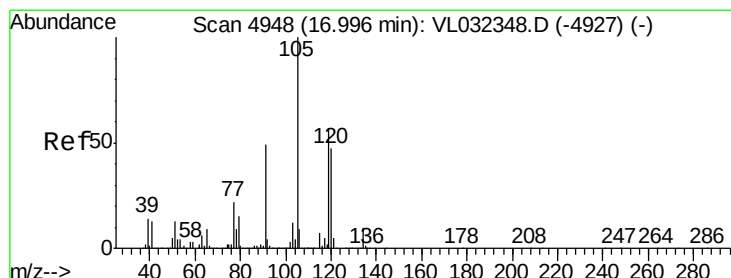
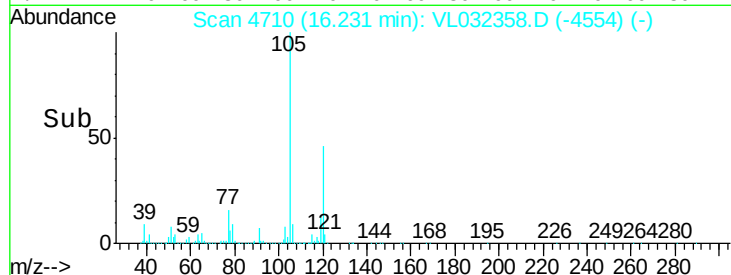
1500000

1000000

500000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 9.37 ppbv

RT: 17.00 min Scan# 4949

Delta R.T. 0.00 min

Lab File: VL032358.D

Acq: 15 Aug 2018 19:09

Tgt Ion:105 Resp: 5196260

Ion Ratio Lower Upper

105 100

120 47.6 37.6 56.4

91 47.8 39.9 59.9

77 22.1 17.8 26.8

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

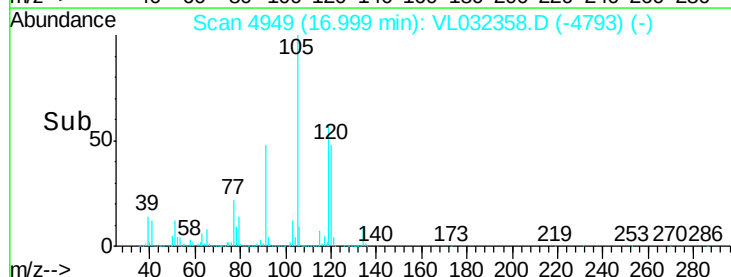
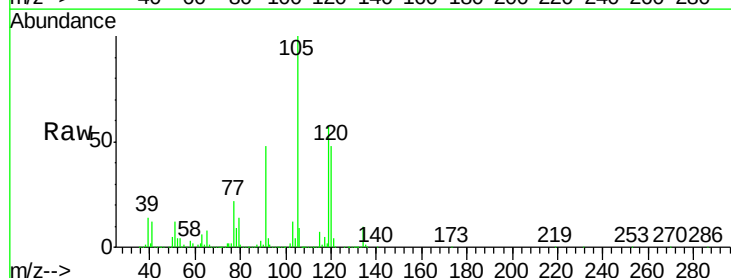
3000000

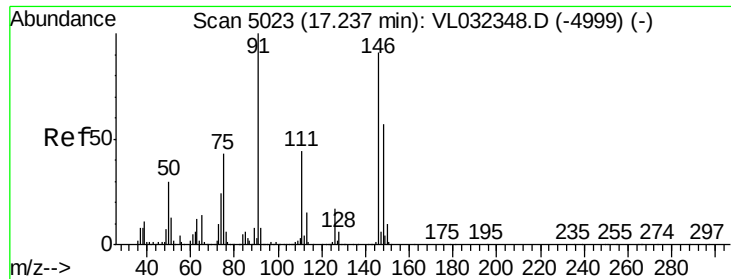
2000000

1000000

0

Time-->





#75

1,3-Dichlorobenzene

Concen: 8.89 ppbv

RT: 17.24 min Scan# 5024

Delta R.T. 0.00 min

Lab File: VL032358.D

Acq: 15 Aug 2018 19:09

Instrument :

MSVOA_L

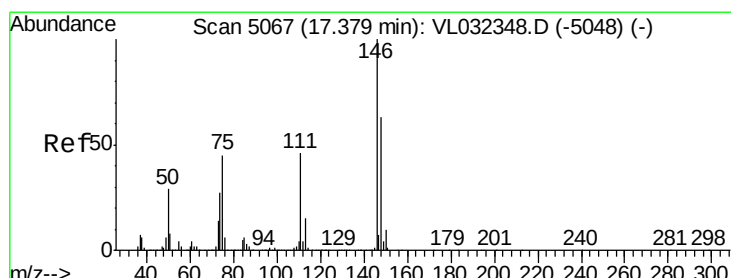
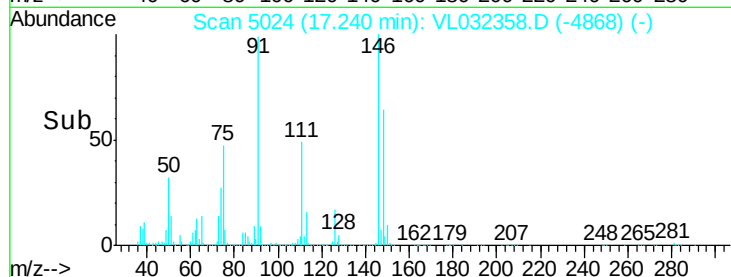
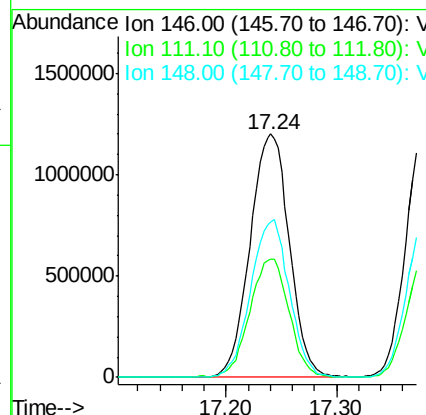
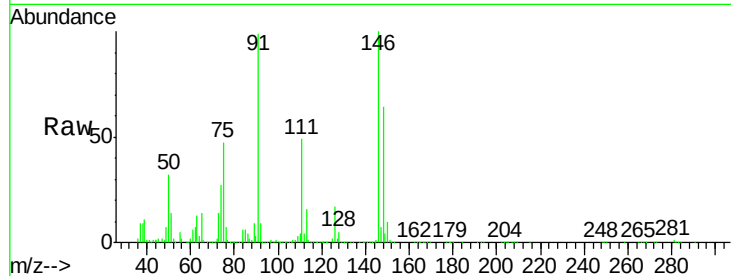
ClientSampleId :

VL0815ABS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.9	24.6	73.8
148	63.9	32.0	96.0

Manual Integrations
APPROVED

MMDadoda
8/17/2018 2:06:39 PM



#76

1,4-Dichlorobenzene

Concen: 9.56 ppbv

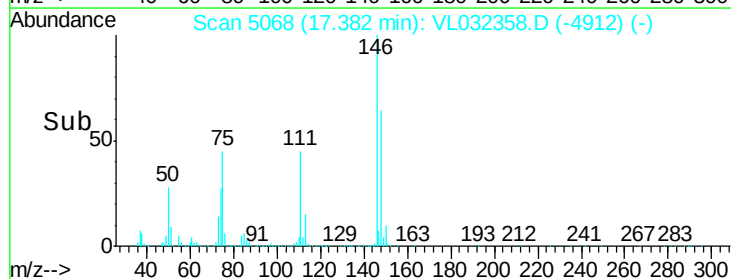
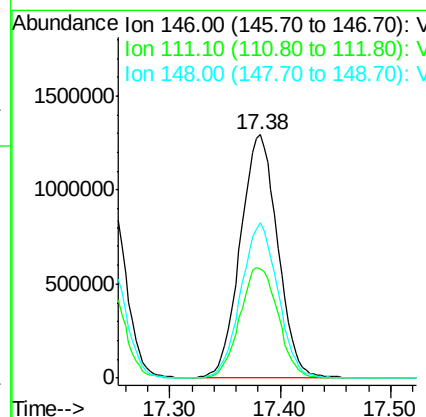
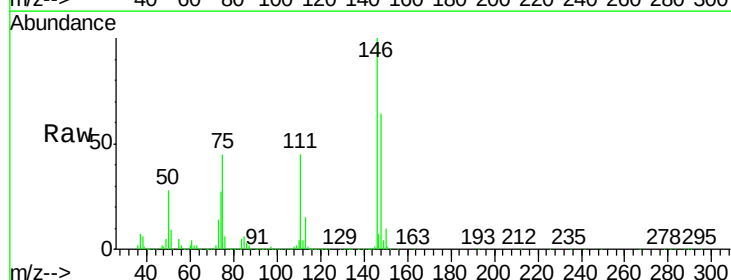
RT: 17.38 min Scan# 5068

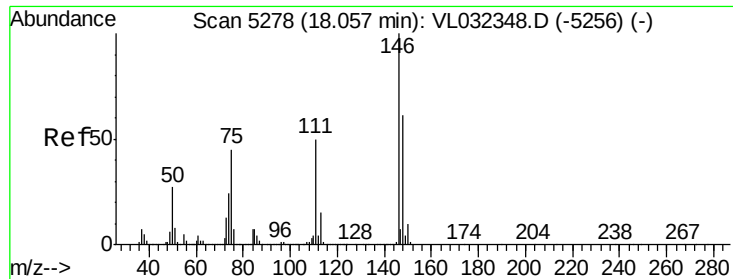
Delta R.T. 0.00 min

Lab File: VL032358.D

Acq: 15 Aug 2018 19:09

Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.7	23.8	71.4
148	63.5	32.2	96.6





#77

1,2-Dichlorobenzene

Concen: 9.40 ppbv

RT: 18.06 min Scan# 5279

Delta R.T. 0.00 min

Lab File: VL032358.D

Acq: 15 Aug 2018 19:09

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS02

Tot Ion:146 Resp: 2995379

Ion Ratio Lower Upper

146 100

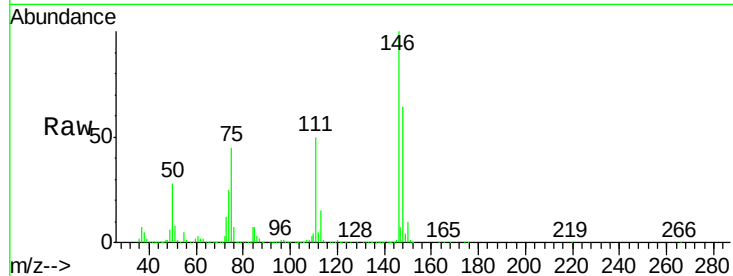
111 50.1 25.2 75.6

148 63.8 31.8 95.4

Manual Integrations
APPROVED

MMDadoda

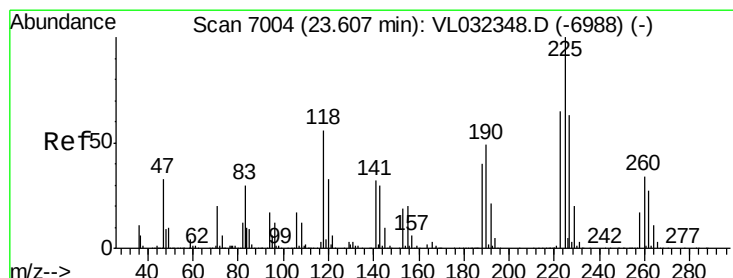
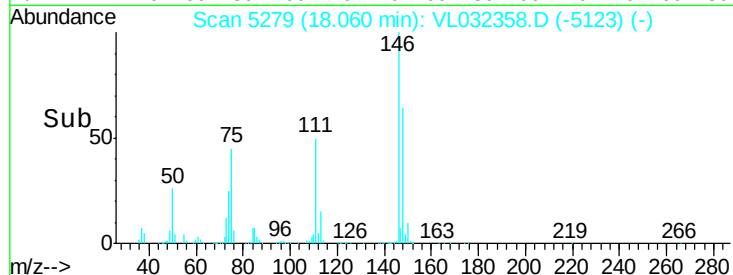
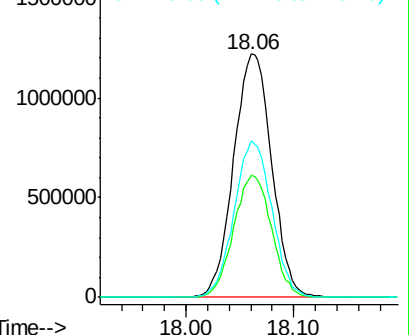
8/17/2018 2:06:39 PM



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



#78

Hexachloro-1,3-Butadiene

Concen: 8.27 ppbv

RT: 23.61 min Scan# 7005

Delta R.T. 0.00 min

Lab File: VL032358.D

Acq: 15 Aug 2018 19:09

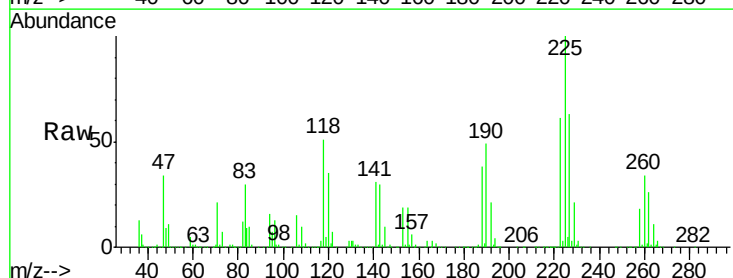
Tgt Ion:225 Resp: 884098

Ion Ratio Lower Upper

225 100

223 62.4 50.6 76.0

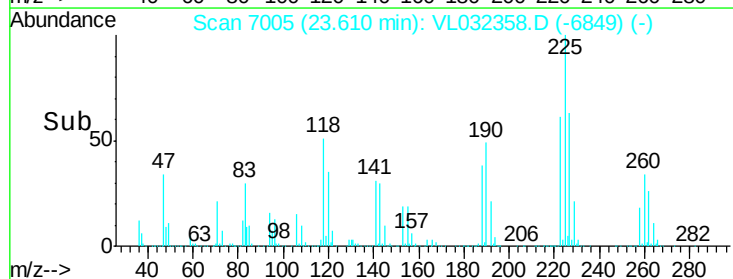
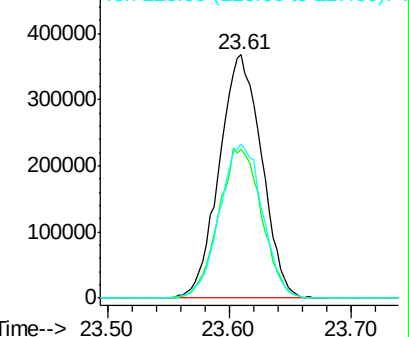
227 64.0 51.0 76.6

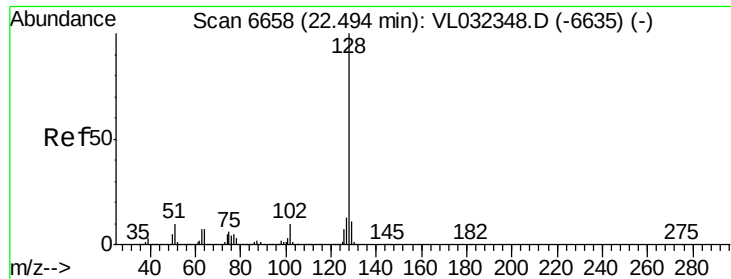


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 9.80 ppbv

RT: 22.49 min Scan# 6658

Delta R.T. 0.00 min

Lab File: VL032358.D

Acq: 15 Aug 2018 19:09

Instrument :

MSVOA_L

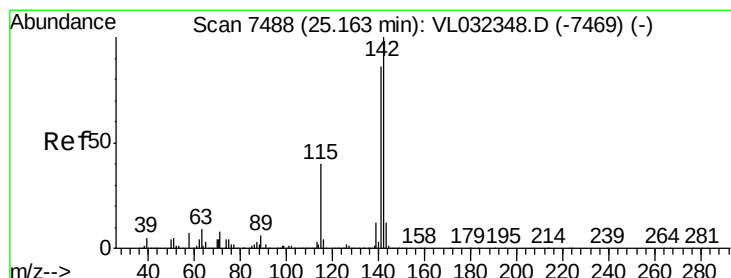
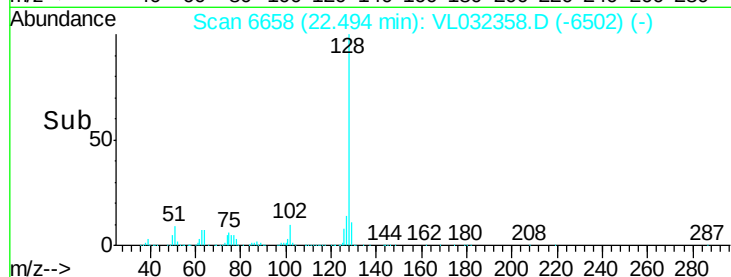
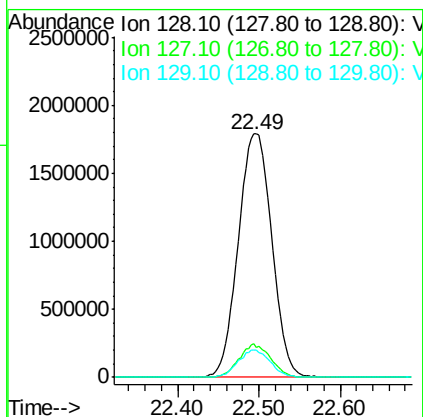
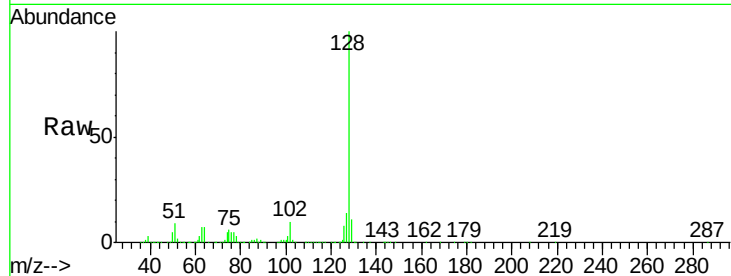
ClientSampleId :

VL0815ABS02

Tot Ion:	128	Resp:	5082497
Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.3	15.5
129	11.0	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
8/17/2018 2:06:39 PM



#80

Naphthalene, 2-methyl-

Concen: 19.31 ppbv

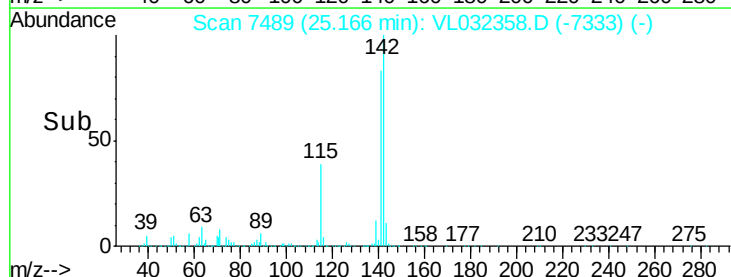
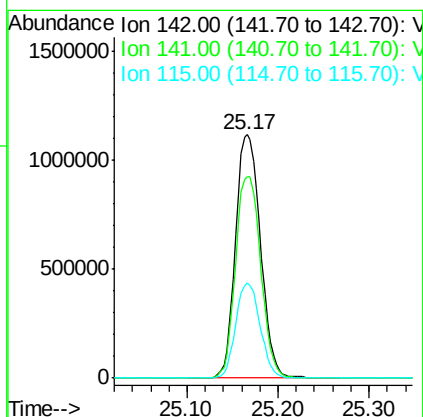
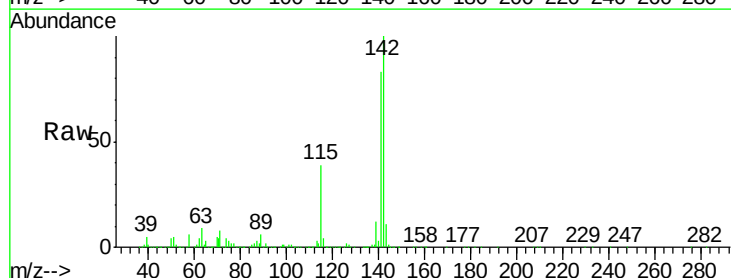
RT: 25.17 min Scan# 7489

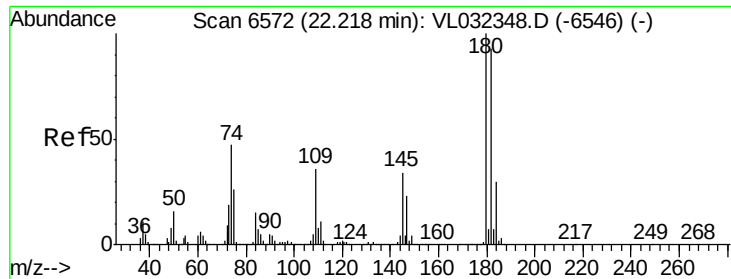
Delta R.T. 0.00 min

Lab File: VL032358.D

Acq: 15 Aug 2018 19:09

Tgt Ion:	142	Resp:	2137072
Ion	Ratio	Lower	Upper
142	100		
141	84.1	66.7	100.1
115	38.4	31.0	46.6





#81
 1,2,4-Trichlorobenzene
 Concen: 11.06 ppbv
 RT: 22.22 min Scan# 6573
 Delta R.T. 0.00 min
 Lab File: VL032358.D
 Acq: 15 Aug 2018 19:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0815ABS02

Tot Ion:	180	Resp:	2373422
Ion Ratio	Lower	Upper	
180	100		
182	95.9	76.1	114.1
184	30.6	24.2	36.2

Manual Integrations
 APPROVED

MMDadoda
 8/17/2018 2:06:39 PM

