

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070518\
 Data File : VL032205.D
 Acq On : 5 Jul 2018 15:28
 Operator : SY/AP
 Sample : VL0705ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0705ABS01

Manual Integrations
 APPROVED

MMDadoda
 7/9/2018 10:47:31 AM

Quant Time: Jul 06 05:03:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 2
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.85	49	1468695	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	3857095	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	4198303m	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.68	95	3175346	9.89	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.90%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.13	85	1763060	9.12	ppbv	98
3) Chlorodifluoromethane	3.07	51	1616462	9.01	ppbv	94
4) Chloromethane	3.23	50	922022	9.62	ppbv	99
5) Vinyl Chloride	3.35	62	905332	9.36	ppbv	99
6) Bromomethane	3.58	94	514508	9.34	ppbv	99
7) Chloroethane	3.66	64	321437	9.39	ppbv	98
8) Dichlorotetrafluoroethane	3.28	85	1988759	9.21	ppbv	90
9) Propene	3.09	41	725639	8.68	ppbv	99
10) Heptane	8.34	43	2369241	9.72	ppbv	97
11) Trichlorofluoromethane	4.07	101	1891203	9.04	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.62	101	1179468	8.46	ppbv	91
13) Ethanol	3.71	45	175926	6.94	ppbv	96
14) Bromoethene	3.85	108	574252	8.66	ppbv	99
15) Acetone	3.97	43	1381335	8.04	ppbv	100
16) 1,3-Butadiene	3.42	39	837015	10.21	ppbv	85
17) tert-Butyl alcohol	4.43	59	1327303	12.14	ppbv	98
18) 1,1-Dichloroethene	4.42	96	572963	8.60	ppbv	96
19) Isopropyl Alcohol	4.09	45	1162222	8.15	ppbv #	41
20) Methylene Chloride	4.48	84	499008	7.95	ppbv	95
21) Allyl Chloride	4.55	41	996521	8.50	ppbv	96
22) trans-1,2-Dichloroethene	5.04	96	615116	8.83	ppbv	100
23) Vinyl Acetate	5.23	43	2943646	9.45	ppbv	99
24) 1,1-Dichloroethane	5.17	63	1993712	9.99	ppbv	98
25) Ethyl Acetate	5.85	43	3264312	9.19	ppbv	100
26) Hexane	5.86	57	1525710	9.32	ppbv	98
27) Carbon Disulfide	4.69	76	1409376	8.66	ppbv	98
28) Methyl tert-Butyl Ether	5.19	73	2761856	9.55	ppbv	99
29) Chloroform	5.93	83	2351890	9.87	ppbv	99
30) Cyclohexane	7.34	84	1598312	10.36	ppbv	100
31) cis-1,2-Dichloroethene	5.72	61	1622463	9.92	ppbv	93
32) 1,1,1-Trichloroethane	6.71	97	2744421	10.99	ppbv	98
34) 2-Butanone	5.41	43	2234105	9.13	ppbv	99
35) Carbon Tetrachloride	7.22	117	2700754	10.23	ppbv	99
36) Benzene	7.10	78	3813467	10.22	ppbv	97
37) 1,2-Dichloroethane	6.50	62	2213504	11.90	ppbv	96
38) Trichloroethene	8.05	130	1202945	8.25	ppbv	94
39) 1,2-Dichloropropane	7.83	63	1501437	10.20	ppbv	96
40) 1,4-Dioxane	8.05	88	469696	8.13	ppbv #	1
41) Tetrahydrofuran	6.23	42	1297433	8.84	ppbv	98
42) Bromodichloromethane	8.01	83	2904903	9.96	ppbv	96
43) Methyl Methacrylate	8.23	69	1522160	9.84	ppbv	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070518\
 Data File : VL032205.D
 Acq On : 5 Jul 2018 15:28
 Operator : SY/AP
 Sample : VL0705ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0705ABS01

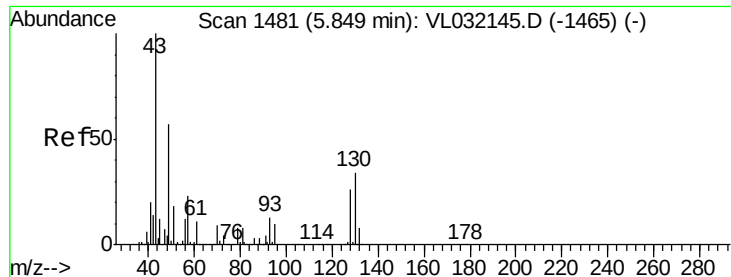
Manual Integrations
 APPROVED

MMDadoda
 7/9/2018 10:47:31 AM

Quant Time: Jul 06 05:03:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 2
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.08	57	6159769	9.43	ppbv	99
45) t-1,3-Dichloropropene	9.51	75	2126269	11.09	ppbv	97
46) cis-1,3-Dichloropropene	8.93	75	2309945	10.09	ppbv	98
47) 1,1,2-Trichloroethane	9.71	97	1551486	10.14	ppbv	95
48) Dibromochloromethane	10.55	129	2484633	10.49	ppbv	100
49) Bromoform	13.31	173	1923789	9.70	ppbv	99
50) 4-Methyl-2-Pentanone	8.96	43	3670288	9.15	ppbv	100
51) 2-Hexanone	10.37	43	3270279	9.84	ppbv #	99
52) Tetrachloroethene	11.47	164	1203576	8.87	ppbv	95
53) Toluene	10.04	91	4503942	9.98	ppbv	99
54) 1,2-Dibromoethane	10.86	107	2379365	10.34	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.38	131	1735433	9.26	ppbv #	55
57) Chlorobenzene	12.40	112	3185077	8.76	ppbv	92
58) Ethyl Benzene	12.96	91	6214619	9.19	ppbv	94
59) m/p-Xylene	13.22	91	10064059m	18.56	ppbv	
60) o-Xylene	13.95	91	4826485	8.92	ppbv	95
61) Styrene	13.79	104	3959807	8.93	ppbv	93
62) Isopropylbenzene	14.93	105	6953253	8.36	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.94	83	3313671	7.91	ppbv	100
64) n-propylbenzene	15.82	120	1765942	8.20	ppbv	84
65) tert-Butylbenzene	17.01	119	5571008	7.62	ppbv	92
66) Benzyl Chloride	17.26	91	3294163	7.30	ppbv #	94
67) sec-Butylbenzene	17.56	105	8274577	7.73	ppbv	98
69) p-Isopropyltoluene	17.91	119	6611775	7.70	ppbv	96
70) n-Butylbenzene	18.81	91	7163390	7.99	ppbv	98
71) 2-Chlorotoluene	15.72	91	5434126	8.49	ppbv	94
72) 4-Ethyltoluene	16.10	105	5748862	8.23	ppbv	97
73) 1,3,5-Trimethylbenzene	16.26	105	5444031	8.27	ppbv	95
74) 1,2,4-Trimethylbenzene	17.03	105	5228322	7.87	ppbv	97
75) 1,3-Dichlorobenzene	17.27	146	2735795	7.24	ppbv	97
76) 1,4-Dichlorobenzene	17.41	146	2827258	7.38	ppbv	96
77) 1,2-Dichlorobenzene	18.09	146	2699349	7.15	ppbv	96
78) Hexachloro-1,3-Butadiene	23.63	225	1534239	11.67	ppbv	99
79) Naphthalene	22.53	128	4218946	6.99	ppbv	100
80) Naphthalene, 2-methyl-	25.19	142	2227697	10.22	ppbv	97
81) 1,2,4-Trichlorobenzene	22.25	180	1967291m	7.22	ppbv	

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



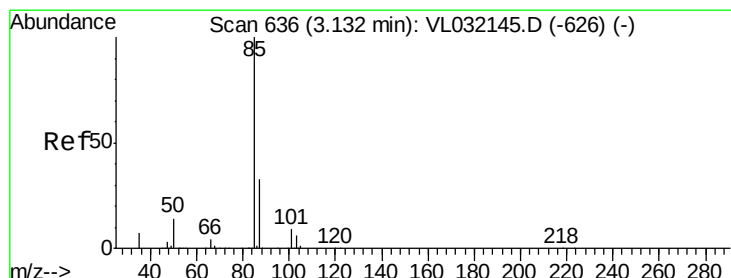
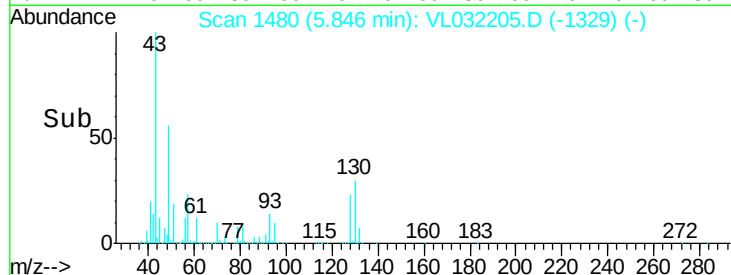
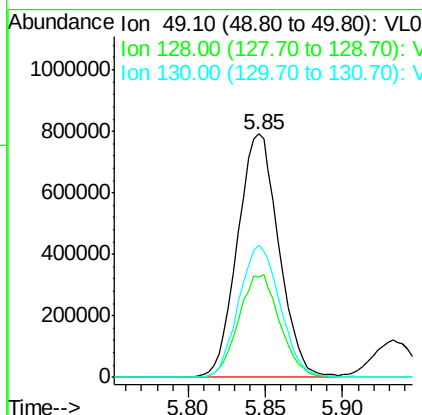
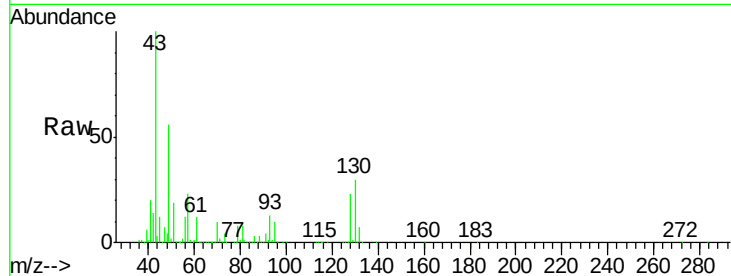
#1
 Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.85 min Scan# 1480
 Delta R.T. -0.02 min
 Lab File: VL032205.D
 Acq: 5 Jul 2018 15:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0705ABS01

Tot Ion: 49 Resp: 1468695
 Ion Ratio Lower Upper
 49 100
 128 42.3 23.4 70.0
 130 54.5 30.3 90.9

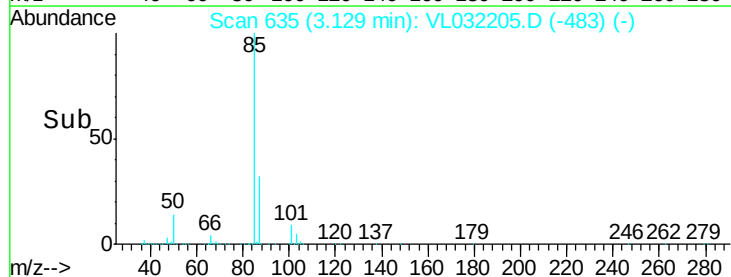
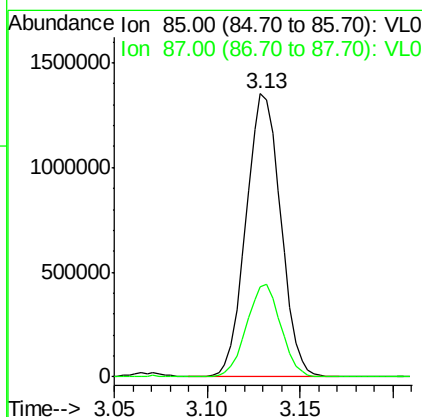
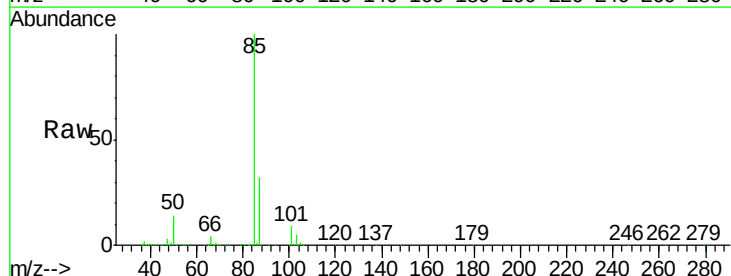
Manual Integrations
 APPROVED

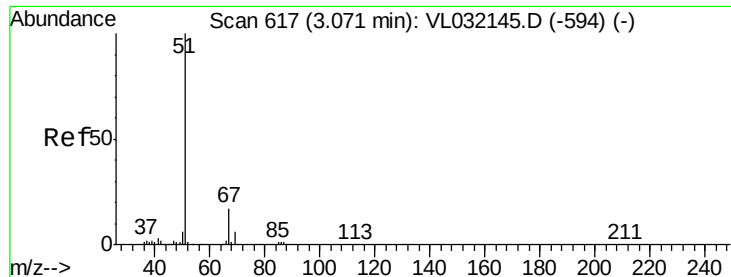
MMDadoda
 7/9/2018 10:47:31 AM



#2
 Dichlorodifluoromethane
 Concen: 9.12 ppbv
 RT: 3.13 min Scan# 635
 Delta R.T. -0.01 min
 Lab File: VL032205.D
 Acq: 5 Jul 2018 15:28

Tgt Ion: 85 Resp: 1763060
 Ion Ratio Lower Upper
 85 100
 87 32.0 26.7 40.1





#3

Chlorodifluoromethane

Concen: 9.01 ppbv

RT: 3.07 min Scan# 616

Delta R.T. -0.01 min

Lab File: VL032205.D

Acq: 5 Jul 2018 15:28

Instrument :

MSVOA_L

ClientSampleId :

VL0705ABS01

Tot Ion: 51 Resp: 1616462

Ion Ratio Lower Upper

51 100

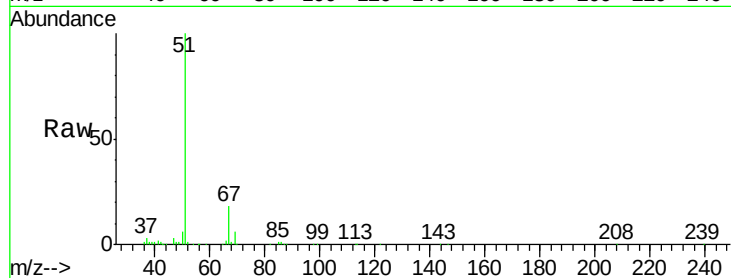
67 19.2 13.2 19.8

Manual Integrations

APPROVED

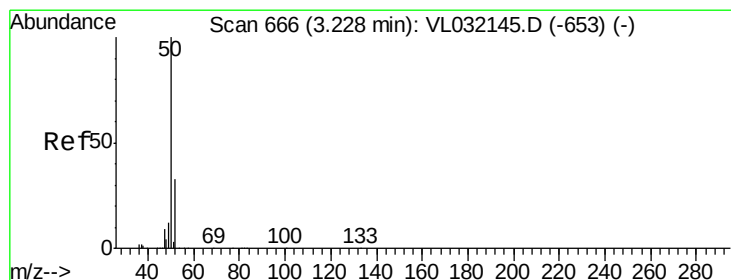
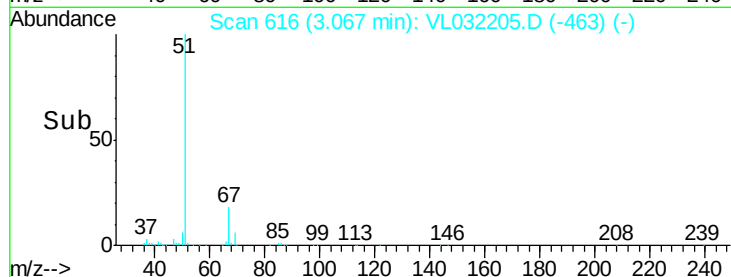
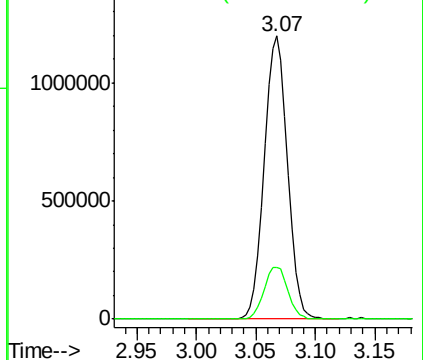
MMDadoda

7/9/2018 10:47:31 AM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.62 ppbv

RT: 3.23 min Scan# 665

Delta R.T. -0.01 min

Lab File: VL032205.D

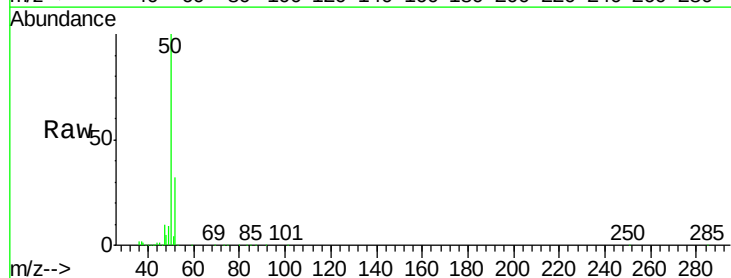
Acq: 5 Jul 2018 15:28

Tgt Ion: 50 Resp: 922022

Ion Ratio Lower Upper

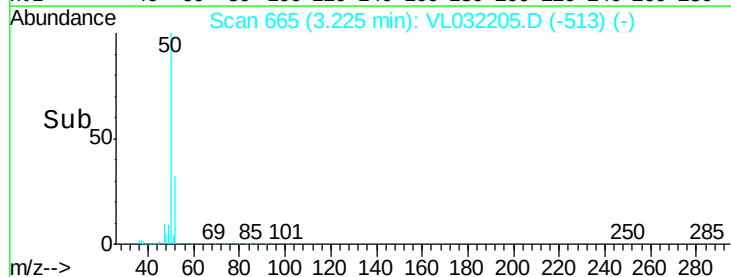
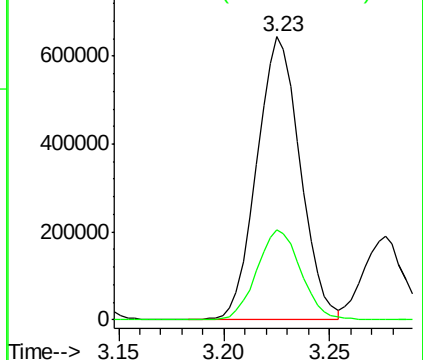
50 100

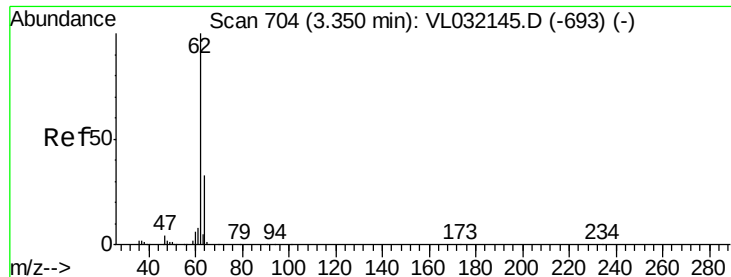
52 32.1 26.0 39.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.36 ppbv

RT: 3.35 min Scan# 703

Delta R.T. -0.01 min

Lab File: VL032205.D

Acq: 5 Jul 2018 15:28

Instrument :

MSVOA_L

ClientSampleId :

VL0705ABS01

Tot Ion: 62 Resp: 905332

Ion Ratio Lower Upper

62 100

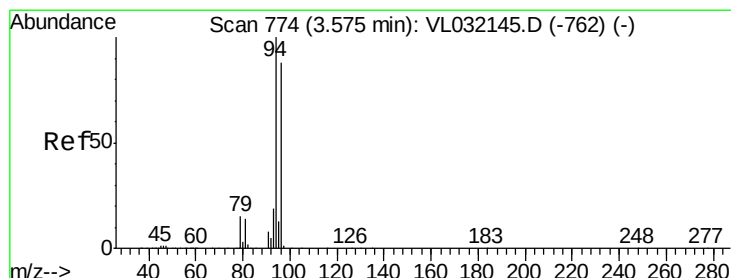
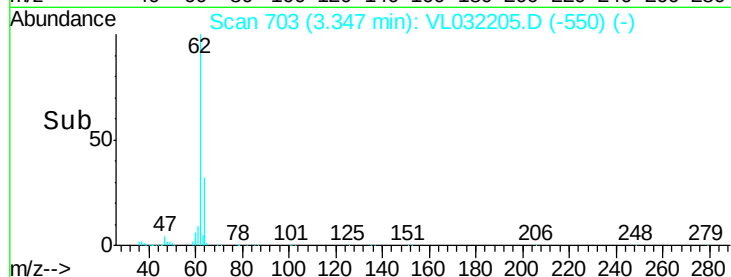
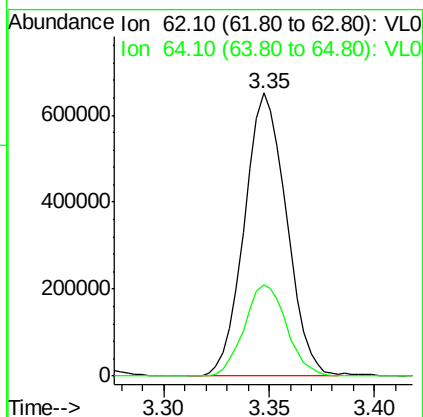
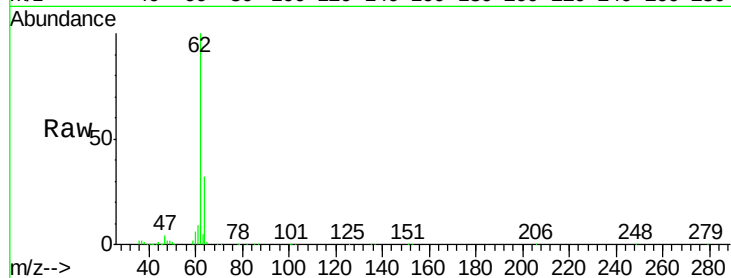
64 32.3 26.1 39.1

Manual Integrations

APPROVED

MMDadoda

7/9/2018 10:47:31 AM



#6

Bromomethane

Concen: 9.34 ppbv

RT: 3.58 min Scan# 774

Delta R.T. -0.01 min

Lab File: VL032205.D

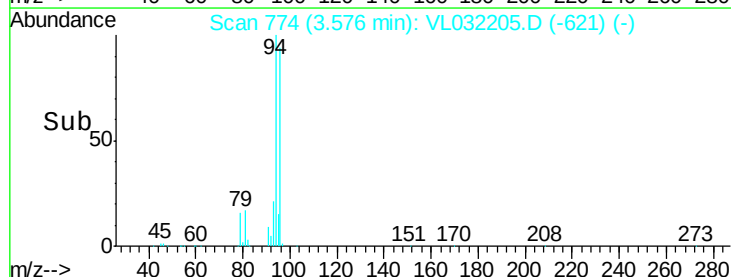
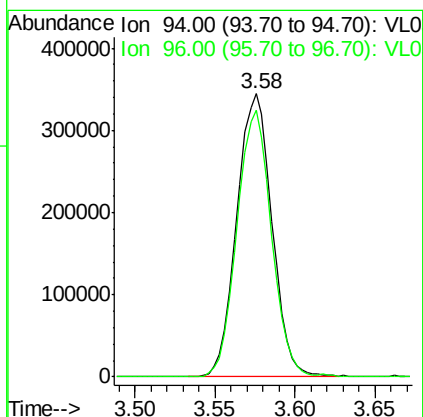
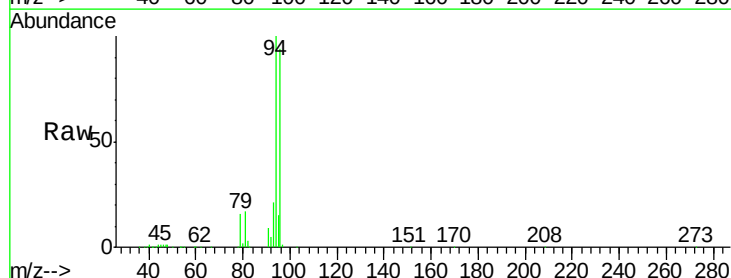
Acq: 5 Jul 2018 15:28

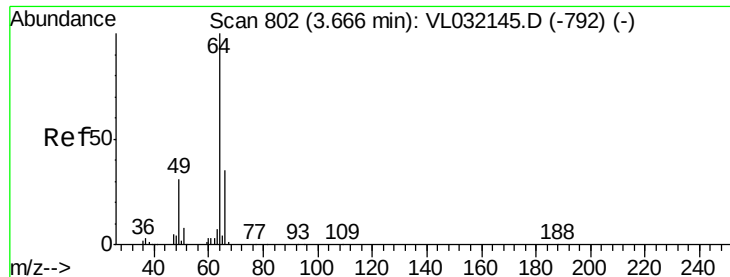
Tgt Ion: 94 Resp: 514508

Ion Ratio Lower Upper

94 100

96 94.4 74.7 112.1





#7

Chloroethane

Concen: 9.39 ppbv

RT: 3.66 min Scan# 801

Delta R.T. -0.01 min

Lab File: VL032205.D

Acq: 5 Jul 2018 15:28

Instrument :

MSVOA_L

ClientSampleId :

VL0705ABS01

Tot Ion: 64 Resp: 321437

Ion Ratio Lower Upper

64 100

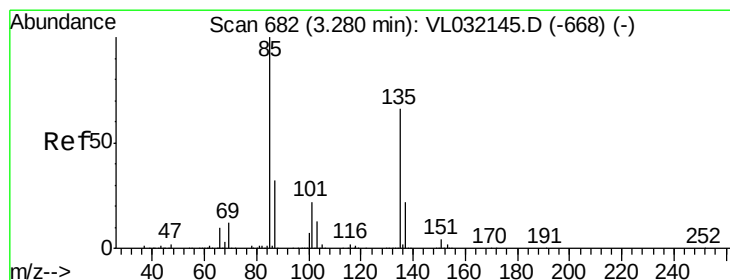
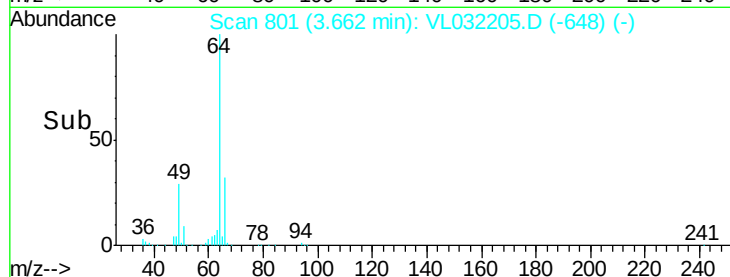
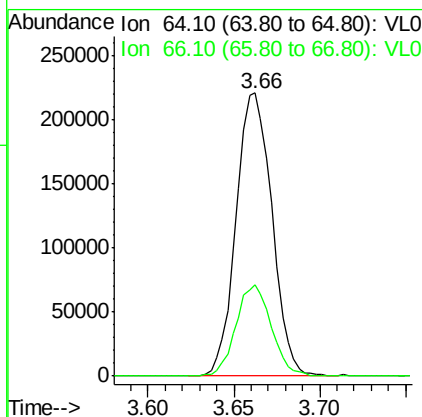
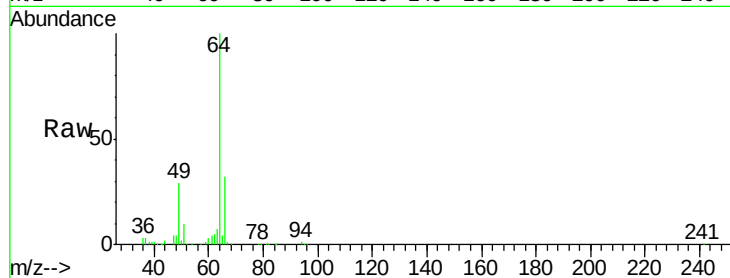
66 32.3 26.9 40.3

Manual Integrations

APPROVED

MMDadoda

7/9/2018 10:47:31 AM



#8

Dichlorotetrafluoroethane

Concen: 9.21 ppbv

RT: 3.28 min Scan# 681

Delta R.T. -0.01 min

Lab File: VL032205.D

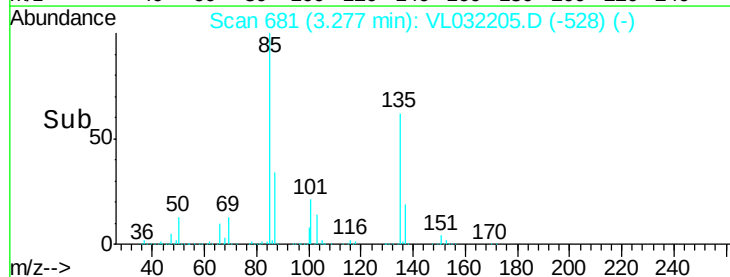
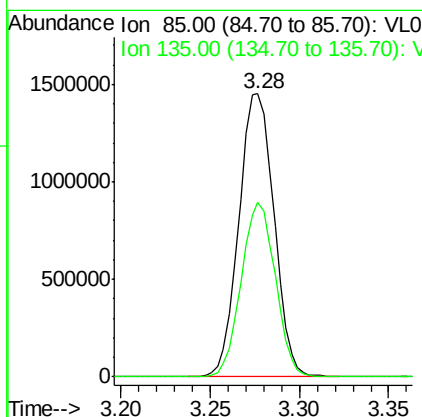
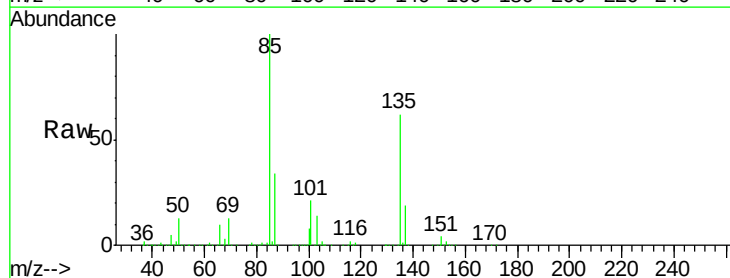
Acq: 5 Jul 2018 15:28

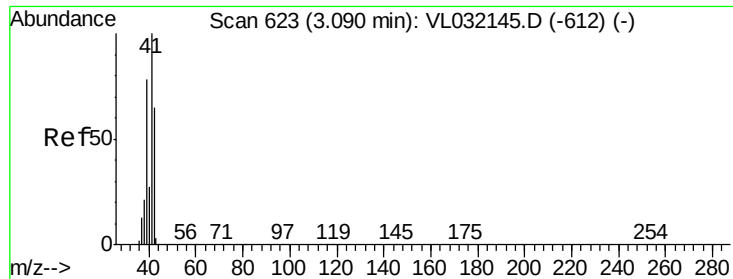
Tgt Ion: 85 Resp: 1988759

Ion Ratio Lower Upper

85 100

135 60.1 54.6 82.0





#9

Propene

Concen: 8.68 ppbv

RT: 3.09 min Scan# 622

Delta R.T. -0.01 min

Lab File: VL032205.D

Acq: 5 Jul 2018 15:28

Instrument :

MSVOA_L

ClientSampleId :

VL0705ABS01

Tot Ion: 41 Resp: 725639

Ion Ratio Lower Upper

41 100

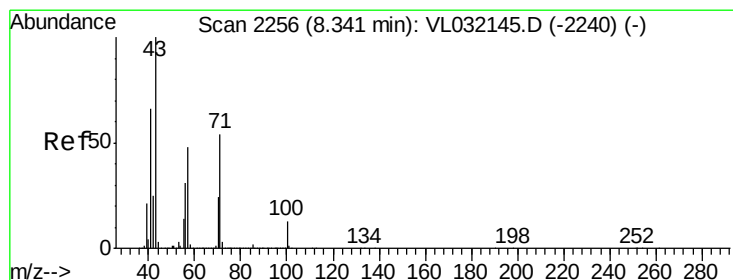
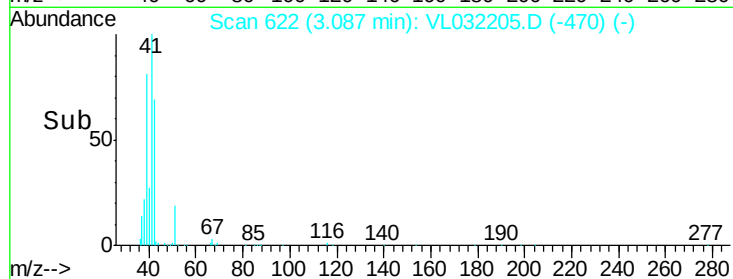
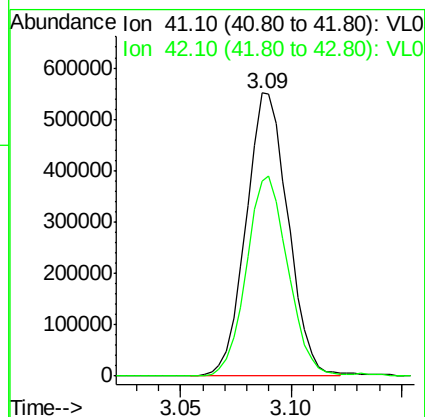
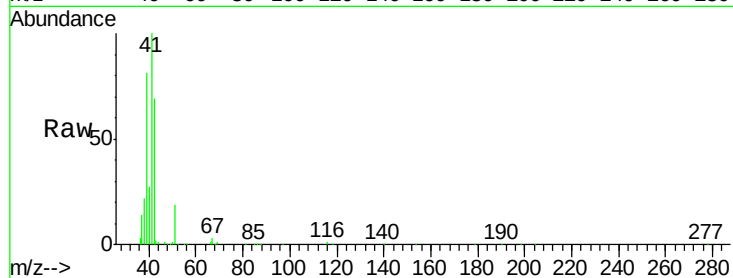
42 70.9 56.2 84.4

Manual Integrations

APPROVED

MMDadoda

7/9/2018 10:47:31 AM



#10

Heptane

Concen: 9.72 ppbv

RT: 8.34 min Scan# 2256

Delta R.T. -0.02 min

Lab File: VL032205.D

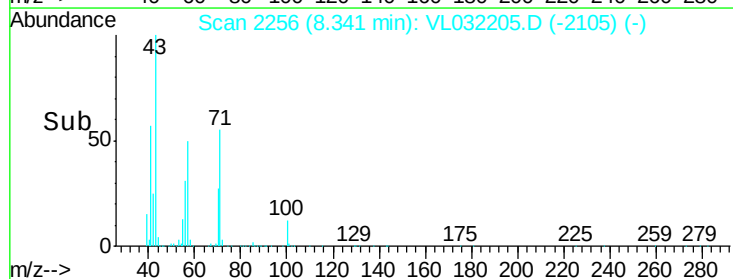
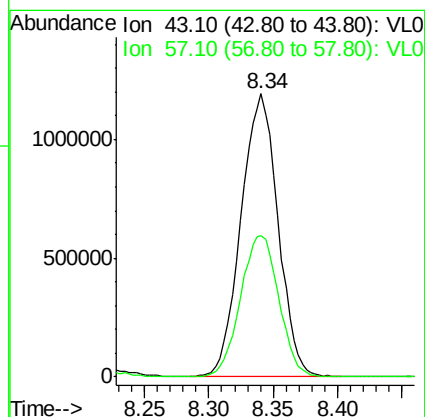
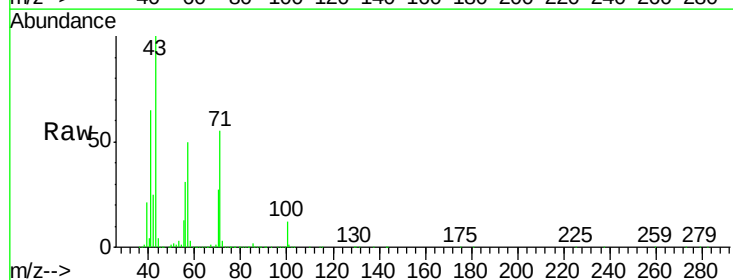
Acq: 5 Jul 2018 15:28

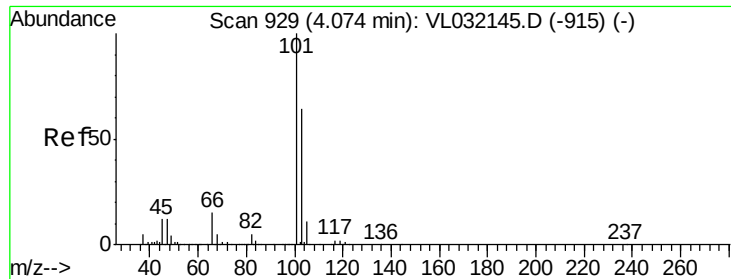
Tgt Ion: 43 Resp: 2369241

Ion Ratio Lower Upper

43 100

57 52.0 39.8 59.8





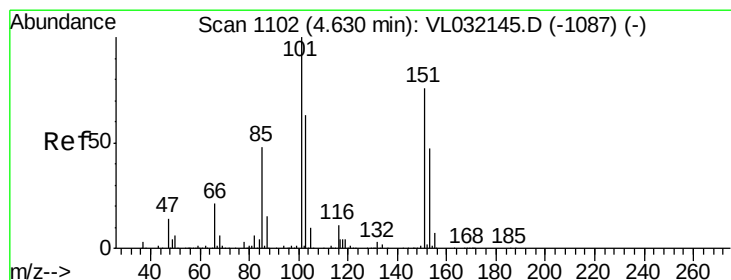
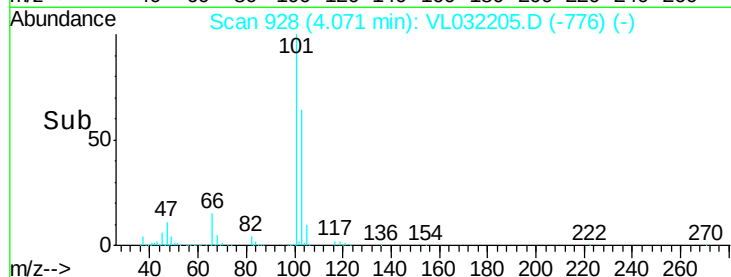
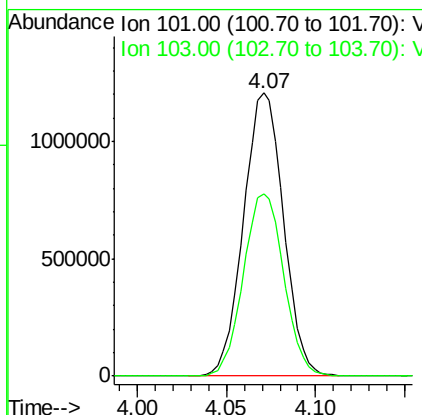
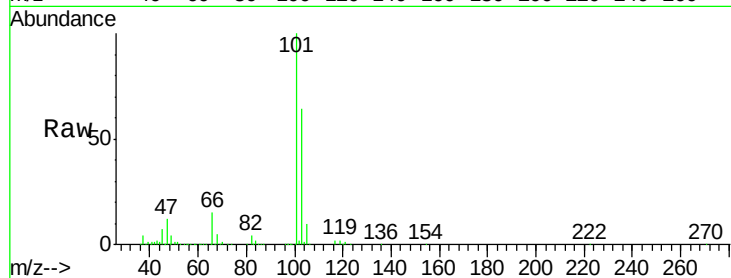
#11
 Trichlorofluoromethane
 Concen: 9.04 ppbv
 RT: 4.07 min Scan# 928
 Delta R.T. -0.01 min
 Lab File: VL032205.D
 Acq: 5 Jul 2018 15:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0705ABS01

Tot Ion:101 Resp: 1891203
 Ion Ratio Lower Upper
 101 100
 103 64.4 51.4 77.0

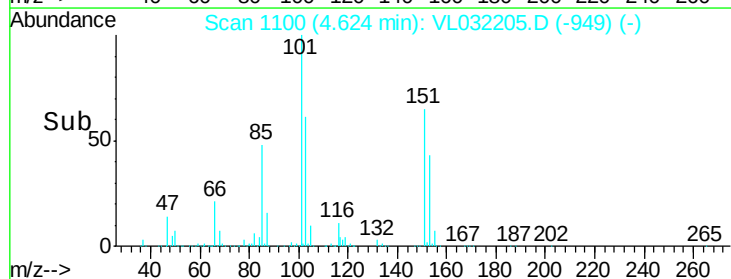
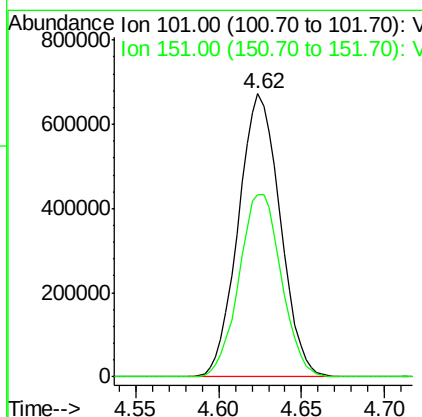
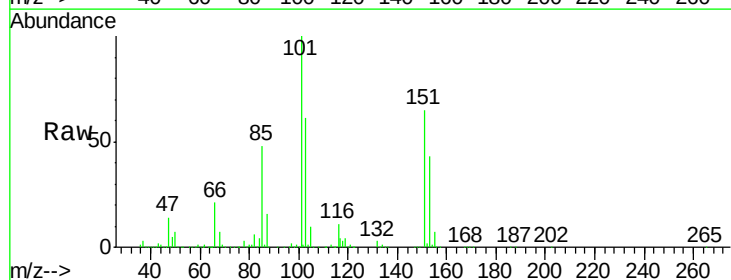
Manual Integrations
 APPROVED

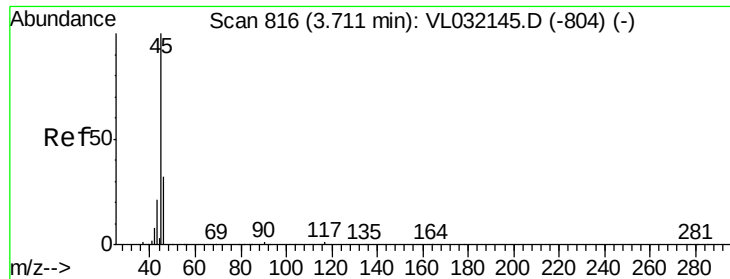
MMDadoda
 7/9/2018 10:47:31 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.46 ppbv
 RT: 4.62 min Scan# 1100
 Delta R.T. -0.02 min
 Lab File: VL032205.D
 Acq: 5 Jul 2018 15:28

Tgt Ion:101 Resp: 1179468
 Ion Ratio Lower Upper
 101 100
 151 65.6 58.8 88.2





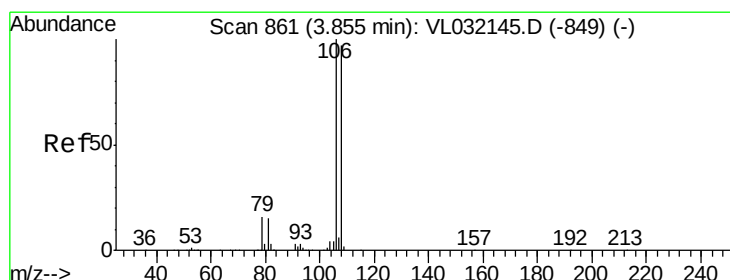
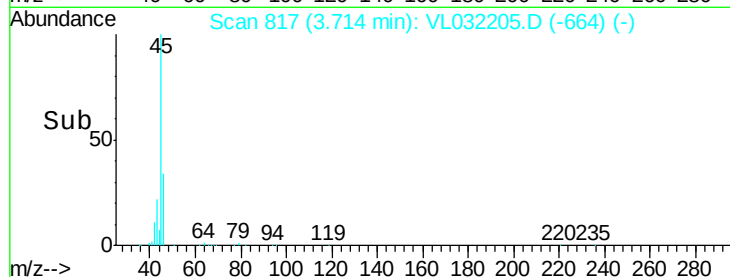
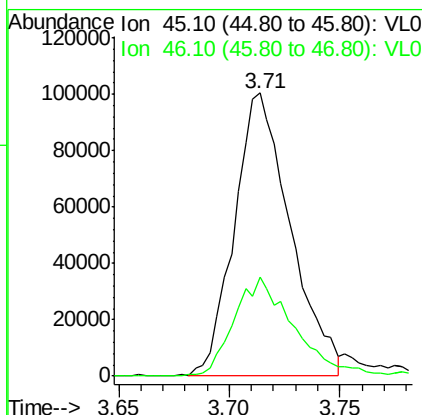
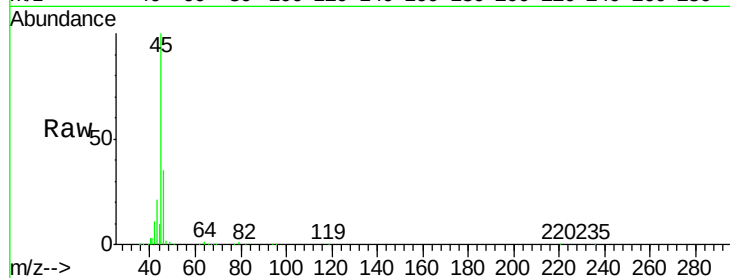
#13
Ethanol
Concen: 6.94 ppbv
RT: 3.71 min Scan# 817
Delta R.T. -0.01 min
Lab File: VL032205.D
Acq: 5 Jul 2018 15:28

Instrument :
MSVOA_L
ClientSampleId :
VL0705ABS01

Tot Ion	Ratio	Lower	Upper
45	100		
46	39.0	14.6	58.4

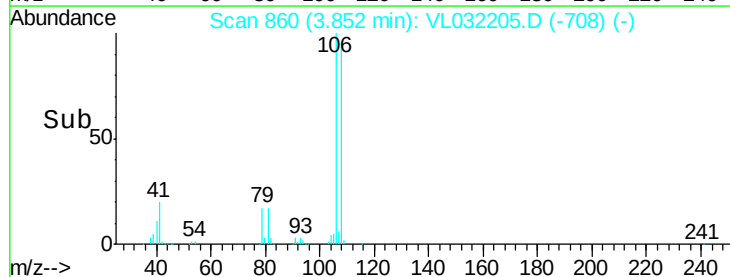
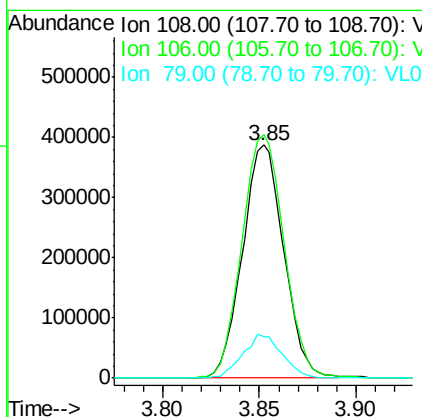
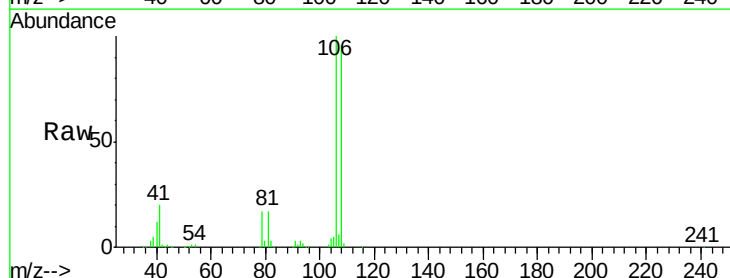
Manual Integrations
APPROVED

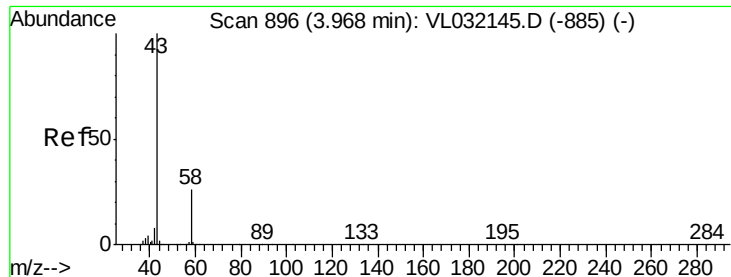
MMDadoda
7/9/2018 10:47:31 AM



#14
Bromoethene
Concen: 8.66 ppbv
RT: 3.85 min Scan# 860
Delta R.T. -0.01 min
Lab File: VL032205.D
Acq: 5 Jul 2018 15:28

Tgt Ion	Ratio	Lower	Upper
108	100		
106	107.4	86.3	129.5
79	18.1	12.7	19.1





#15

Acetone

Concen: 8.04 ppbv

RT: 3.97 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL032205.D

Acq: 5 Jul 2018 15:28

Instrument :

MSVOA_L

ClientSampleId :

VL0705ABS01

Tot Ion: 43 Resp: 1381335

Ion Ratio Lower Upper

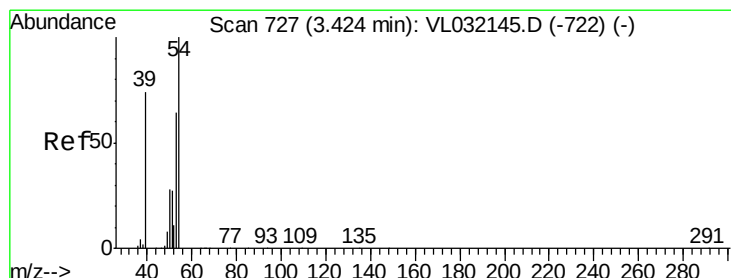
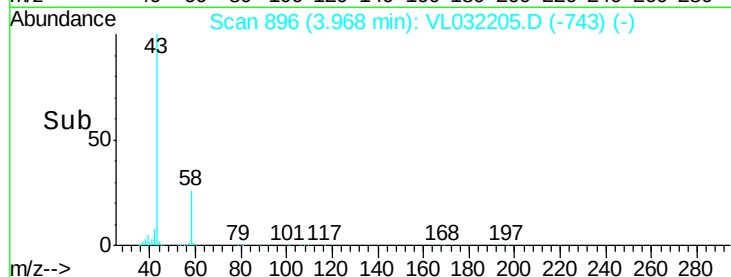
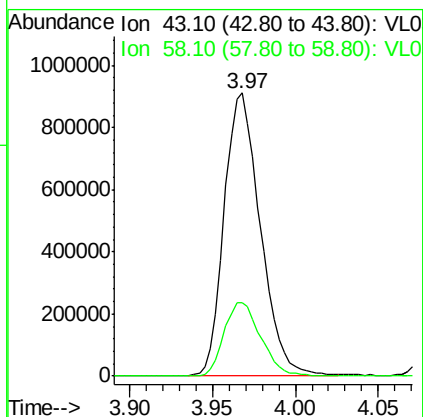
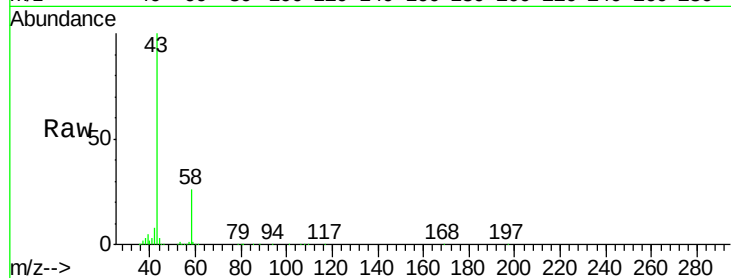
43 100

58 26.6 21.4 32.0

Manual Integrations
APPROVED

MMDadoda

7/9/2018 10:47:31 AM



#16

1,3-Butadiene

Concen: 10.21 ppbv

RT: 3.42 min Scan# 727

Delta R.T. -0.01 min

Lab File: VL032205.D

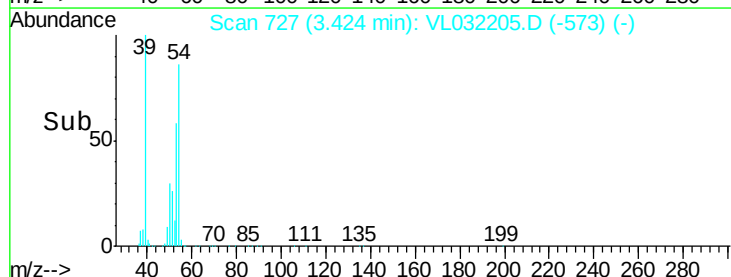
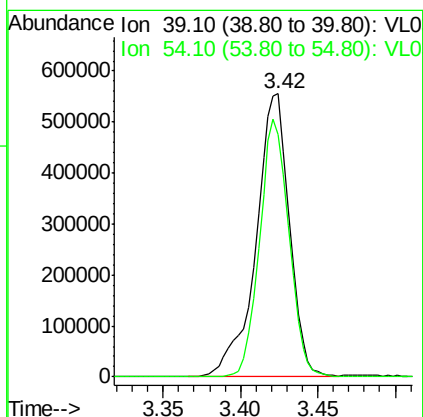
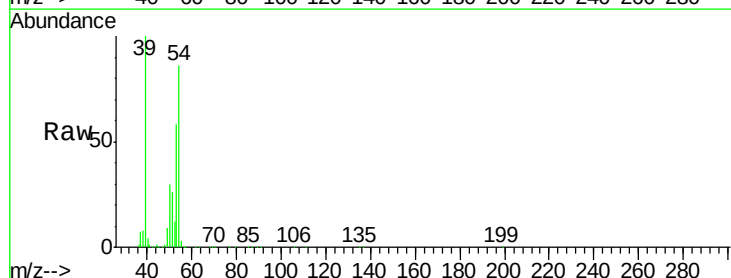
Acq: 5 Jul 2018 15:28

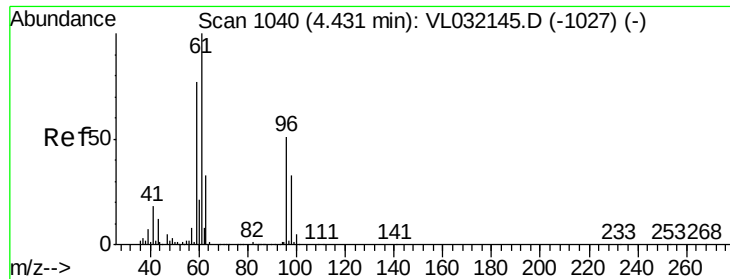
Tgt Ion: 39 Resp: 837015

Ion Ratio Lower Upper

39 100

54 80.3 75.8 113.6





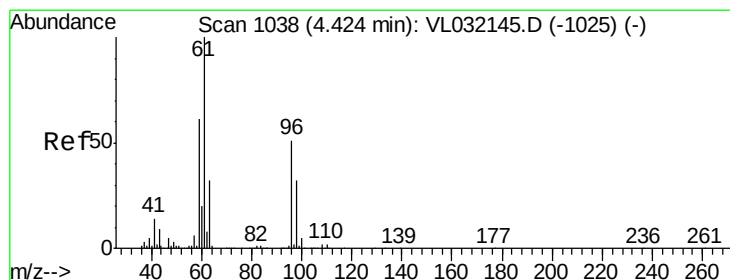
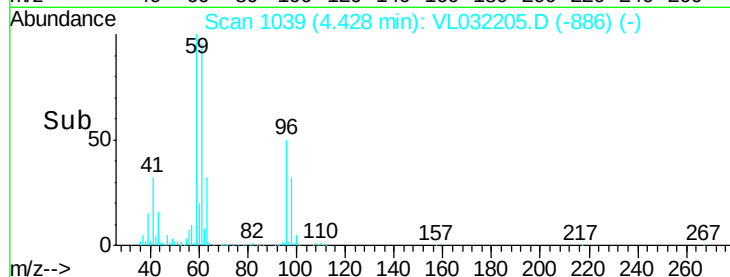
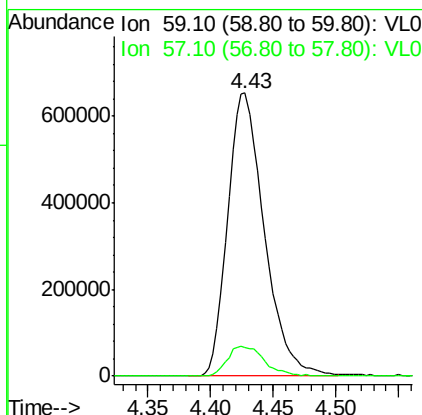
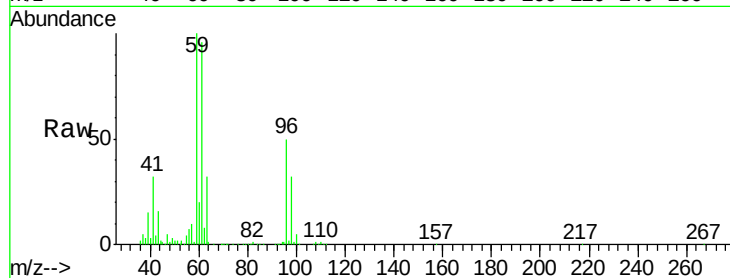
#17
 tert-Butyl alcohol
 Concen: 12.14 ppbv
 RT: 4.43 min Scan# 1039
 Delta R.T. -0.01 min
 Lab File: VL032205.D
 Acq: 5 Jul 2018 15:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0705ABS01

Tot Ion: 59 Resp: 1327303
 Ion Ratio Lower Upper
 59 100
 57 10.9 8.2 12.2

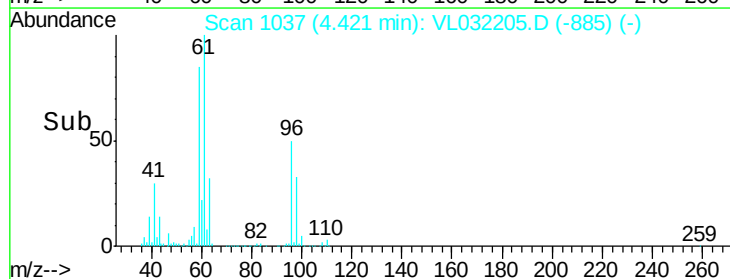
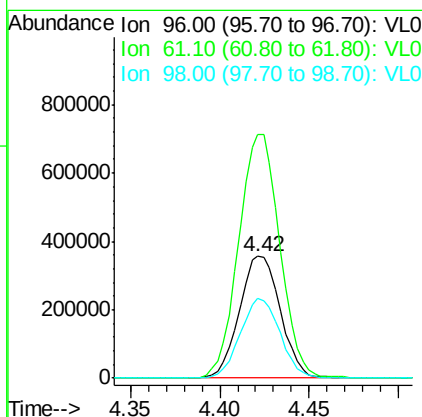
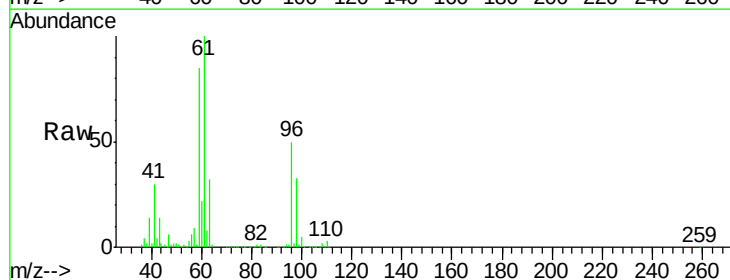
Manual Integrations
 APPROVED

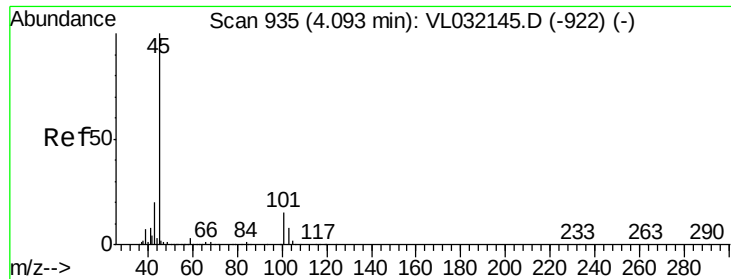
MMDadoda
 7/9/2018 10:47:31 AM



#18
 1,1-Dichloroethene
 Concen: 8.60 ppbv
 RT: 4.42 min Scan# 1037
 Delta R.T. -0.01 min
 Lab File: VL032205.D
 Acq: 5 Jul 2018 15:28

Tgt Ion: 96 Resp: 572963
 Ion Ratio Lower Upper
 96 100
 61 199.4 154.1 231.1
 98 65.4 50.3 75.5





#19

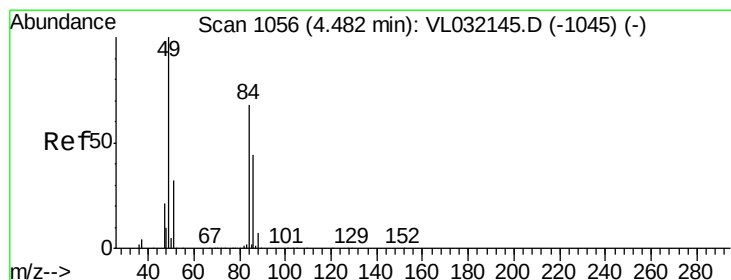
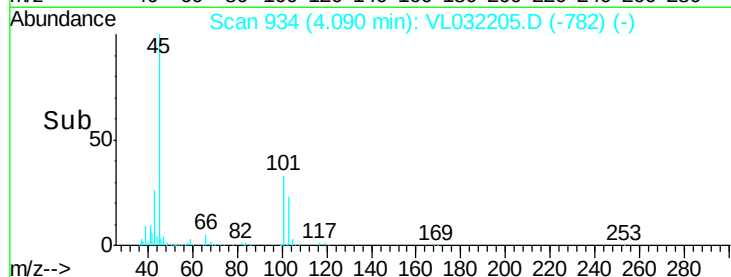
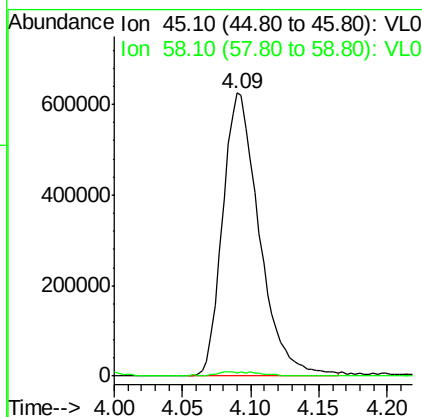
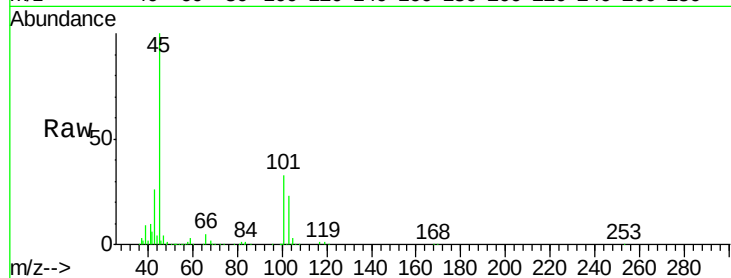
Isopropyl Alcohol
 Concen: 8.15 ppbv
 RT: 4.09 min Scan# 934
 Delta R.T. -0.01 min
 Lab File: VL032205.D
 Acq: 5 Jul 2018 15:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0705ABS01

Tot Ion: 45 Resp: 1162222
 Ion Ratio Lower Upper
 45 100
 58 1.7 29.4 44.0#

Manual Integrations
 APPROVED

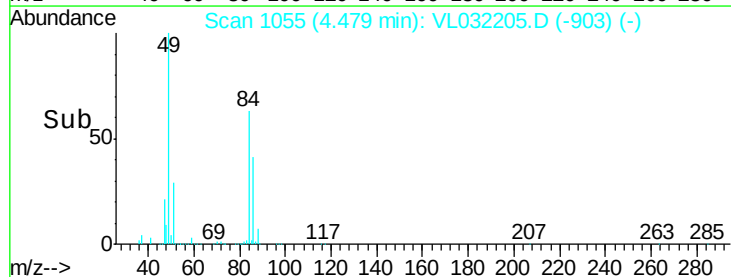
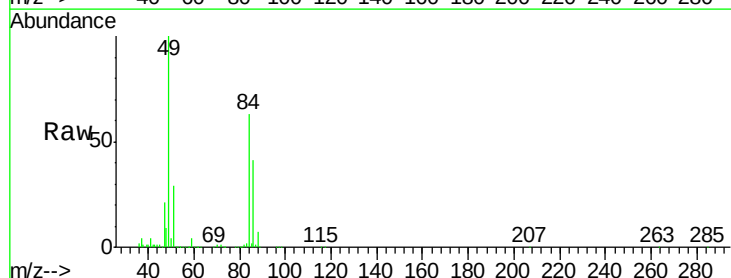
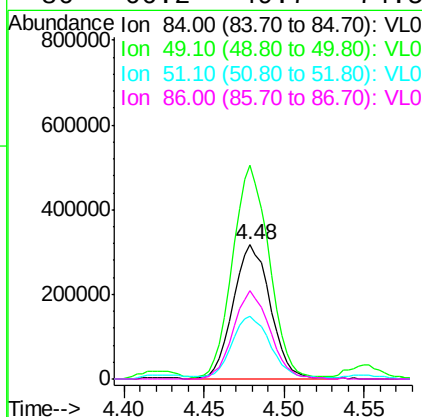
MMDadoda
 7/9/2018 10:47:31 AM

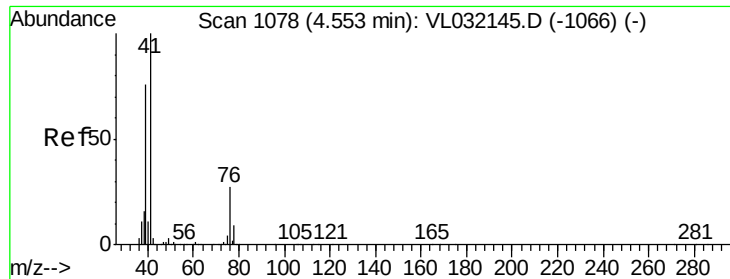


#20

Methylene Chloride
 Concen: 7.95 ppbv
 RT: 4.48 min Scan# 1055
 Delta R.T. -0.01 min
 Lab File: VL032205.D
 Acq: 5 Jul 2018 15:28

Tgt Ion: 84 Resp: 499008
 Ion Ratio Lower Upper
 84 100
 49 158.4 119.6 179.4
 51 45.6 36.3 54.5
 86 66.2 49.7 74.5





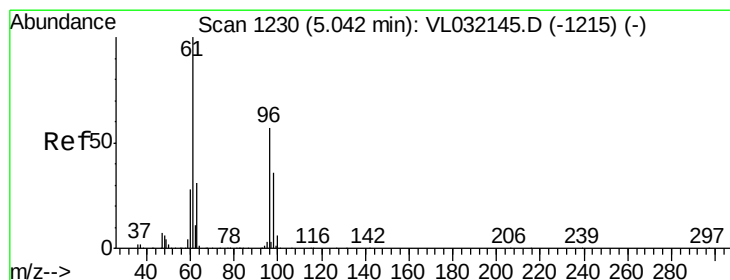
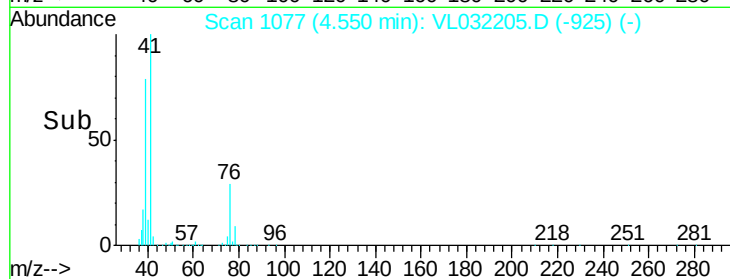
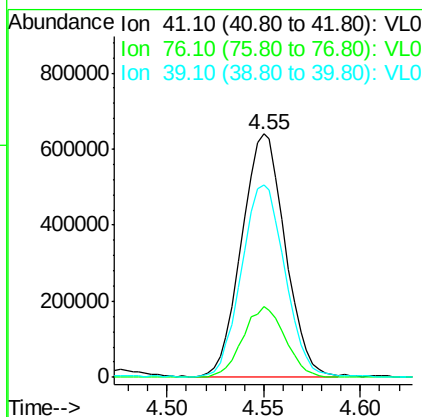
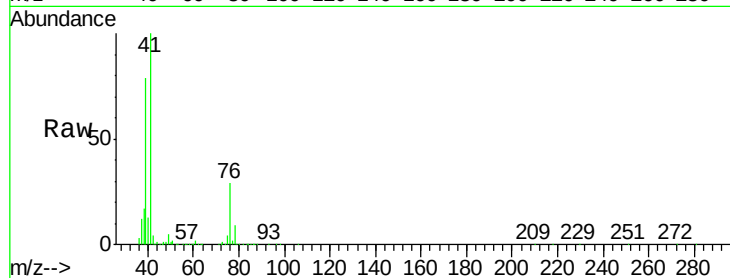
#21
Allvl Chloride
Concen: 8.50 ppbv
RT: 4.55 min Scan# 1077
Delta R.T. -0.01 min
Lab File: VL032205.D
Acq: 5 Jul 2018 15:28

Instrument :
MSVOA_L
ClientSampleId :
VL0705ABS01

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.7	22.5	33.7
39	79.8	60.5	90.7

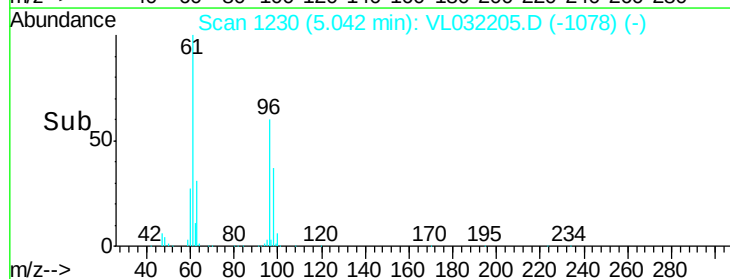
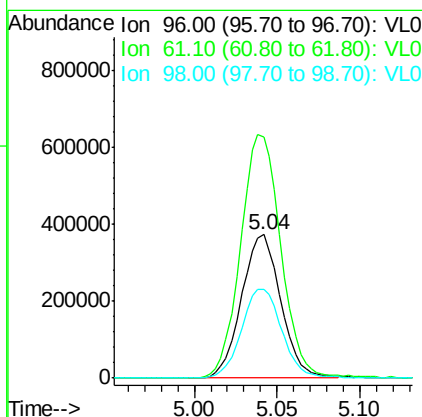
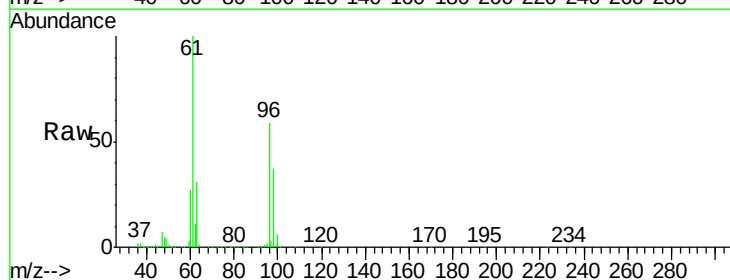
Manual Integrations
APPROVED

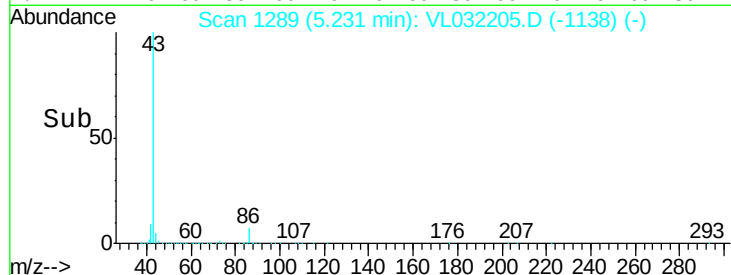
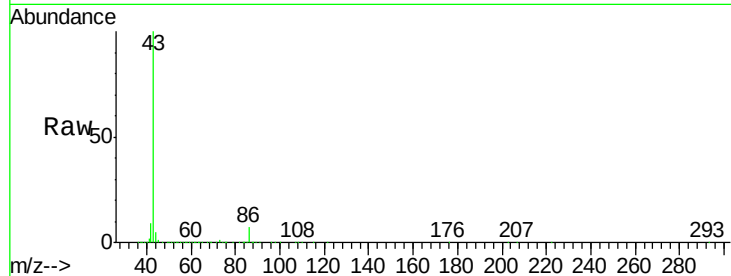
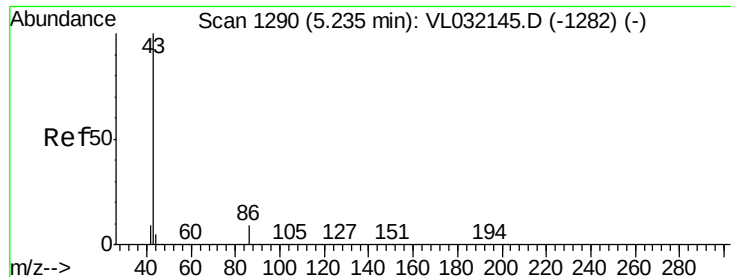
MMDadoda
7/9/2018 10:47:31 AM



#22
trans-1,2-Dichloroethene
Concen: 8.83 ppbv
RT: 5.04 min Scan# 1230
Delta R.T. -0.01 min
Lab File: VL032205.D
Acq: 5 Jul 2018 15:28

Tgt Ion	Ratio	Lower	Upper
96	100		
61	168.6	135.2	202.8
98	62.3	49.7	74.5





#23

Vinyl Acetate

Concen: 9.45 ppbv

RT: 5.23 min Scan# 1289

Delta R.T. -0.02 min

Lab File: VL032205.D

Acq: 5 Jul 2018 15:28

Tot Ion: 43 Resp: 2943646

Ion Ratio Lower Upper

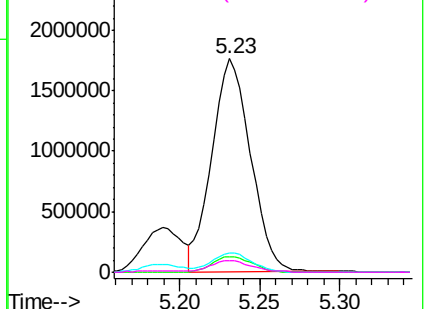
43 100

86 7.5 6.2 9.4

42 9.0 6.9 10.3

44 5.2 3.8 5.8

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



Instrument :

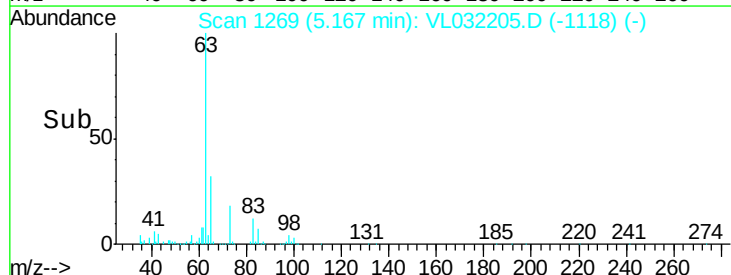
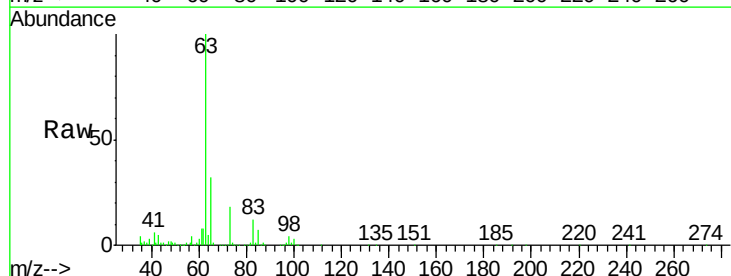
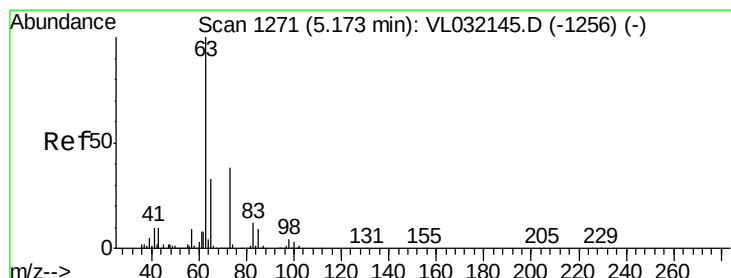
MSVOA_L

ClientSampleId :

VL0705ABS01

Manual Integrations
APPROVED

MMDadoda
7/9/2018 10:47:31 AM



#24

1,1-Dichloroethane

Concen: 9.99 ppbv

RT: 5.17 min Scan# 1269

Delta R.T. -0.02 min

Lab File: VL032205.D

Acq: 5 Jul 2018 15:28

Tgt Ion: 63 Resp: 1993712

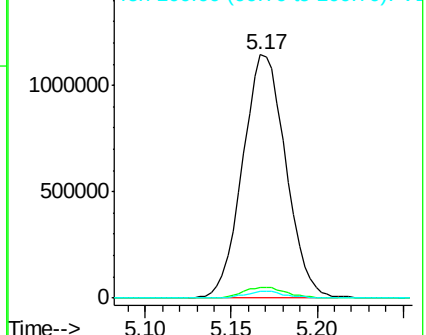
Ion Ratio Lower Upper

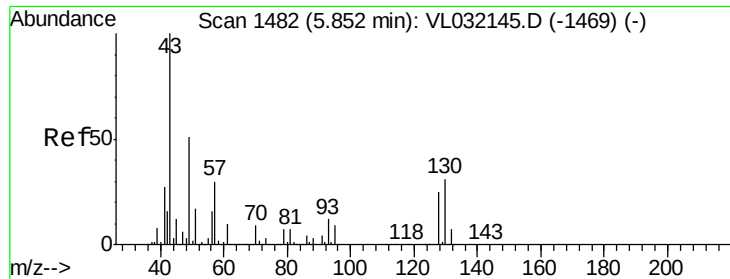
63 100

98 4.3 2.4 7.2

100 2.7 1.7 5.0

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





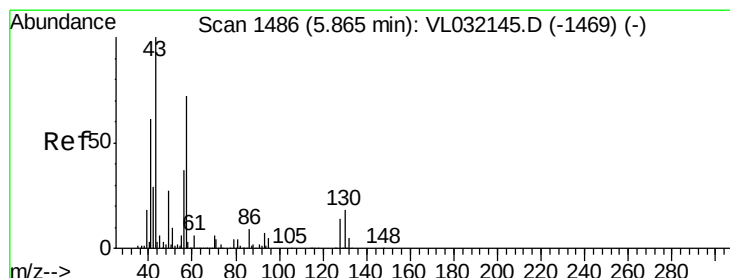
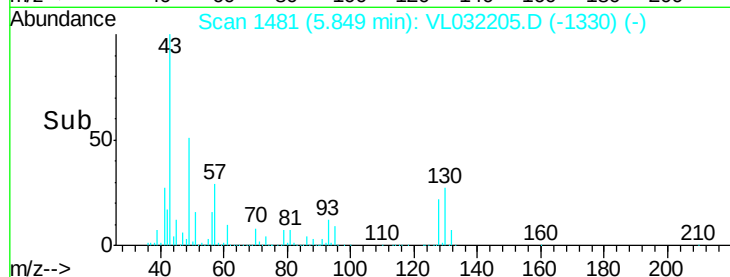
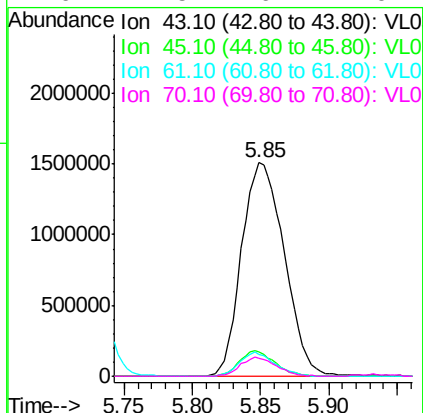
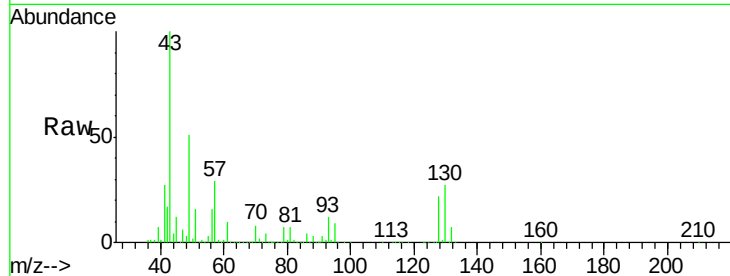
#25
Ethyl Acetate
Concen: 9.19 ppbv
RT: 5.85 min Scan# 1481
Delta R.T. -0.02 min
Lab File: VL032205.D
Acq: 5 Jul 2018 15:28

Instrument :
MSVOA_L
ClientSampleId :
VL0705ABS01

Tot Ion	Ratio	Lower	Upper
43	100		
45	9.9	7.8	11.8
61	9.3	7.4	11.0
70	7.5	6.1	9.1

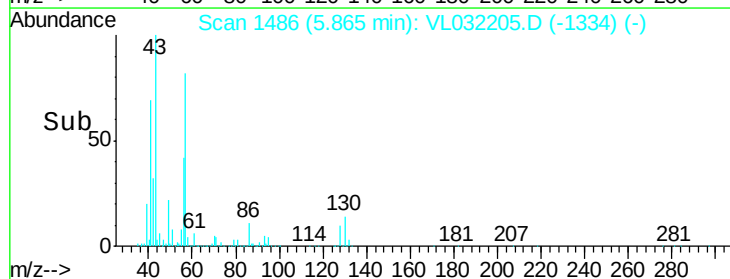
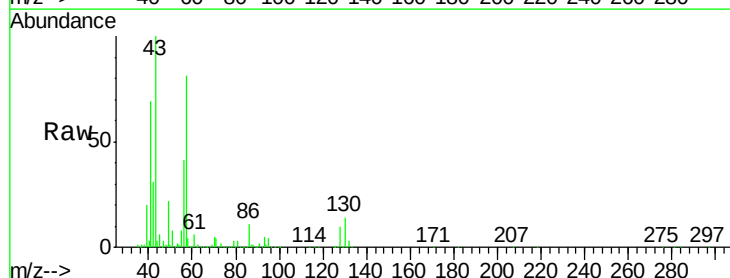
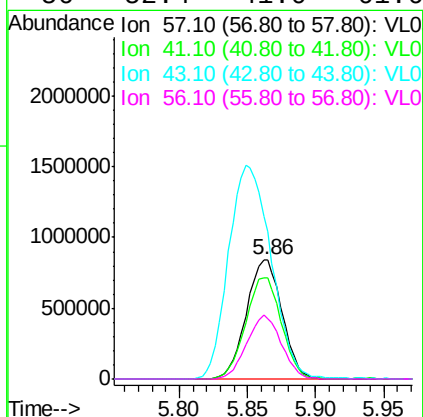
Manual Integrations
APPROVED

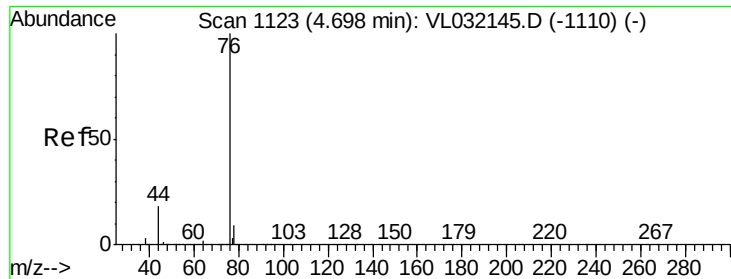
MMDadoda
7/9/2018 10:47:31 AM



#26
Hexane
Concen: 9.32 ppbv
RT: 5.86 min Scan# 1486
Delta R.T. -0.01 min
Lab File: VL032205.D
Acq: 5 Jul 2018 15:28

Tgt Ion	Ratio	Lower	Upper
57	100		
41	85.9	68.6	103.0
43	215.4	168.6	252.8
56	52.4	41.0	61.6





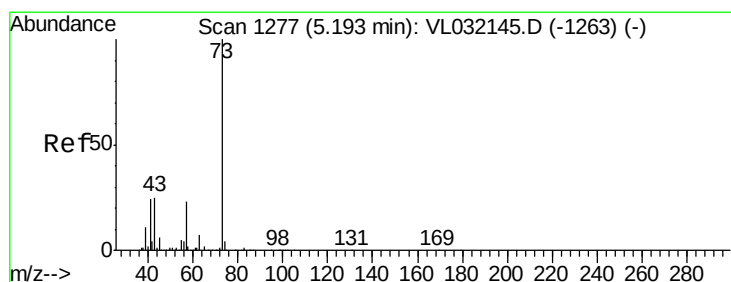
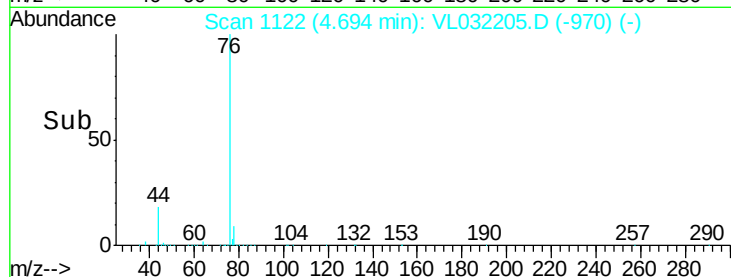
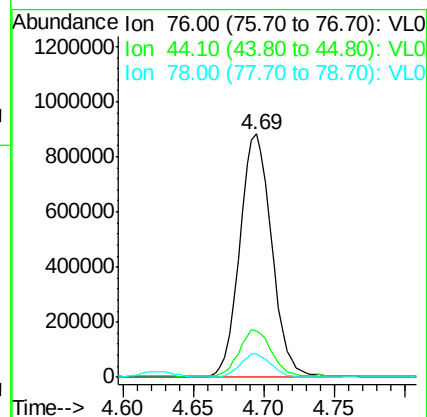
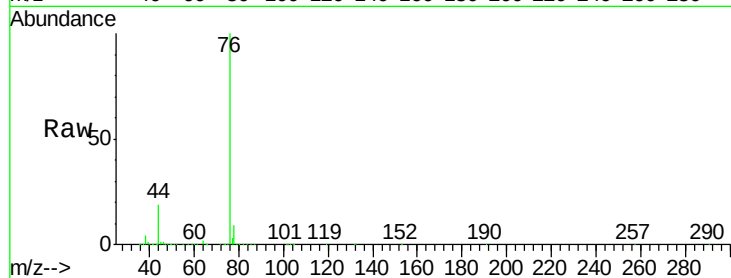
#27
Carbon Disulfide
Concen: 8.66 ppbv
RT: 4.69 min Scan# 1122
Delta R.T. -0.01 min
Lab File: VL032205.D
Acq: 5 Jul 2018 15:28

Instrument :
MSVOA_L
ClientSampleId :
VL0705ABS01

Tot Ion	Ratio	Lower	Upper
76	100		
44	19.9	15.1	22.7
78	9.5	7.2	10.8

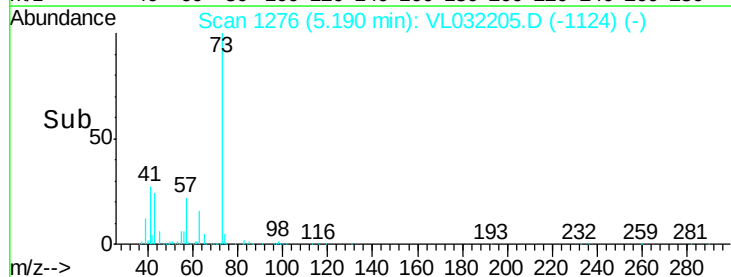
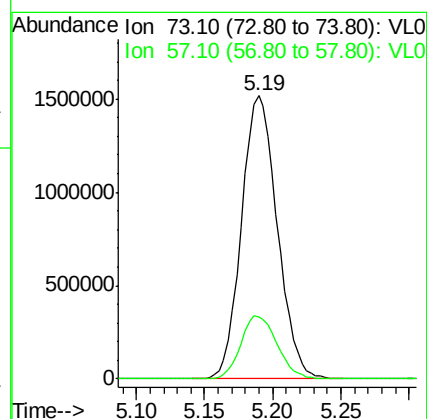
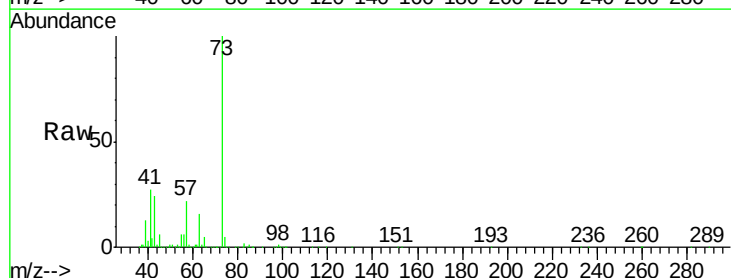
Manual Integrations
APPROVED

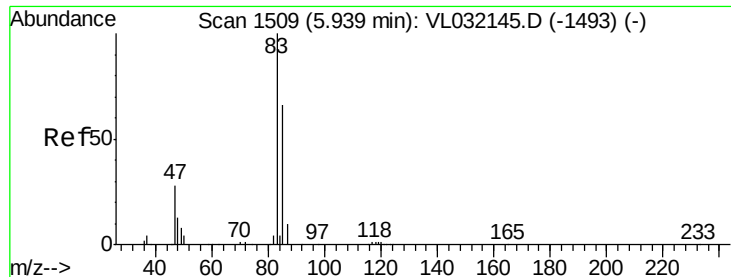
MMDadoda
7/9/2018 10:47:31 AM



#28
Methyl tert-Butyl Ether
Concen: 9.55 ppbv
RT: 5.19 min Scan# 1276
Delta R.T. -0.01 min
Lab File: VL032205.D
Acq: 5 Jul 2018 15:28

Tgt Ion	Ratio	Lower	Upper
73	100		
57	22.9	18.6	27.8





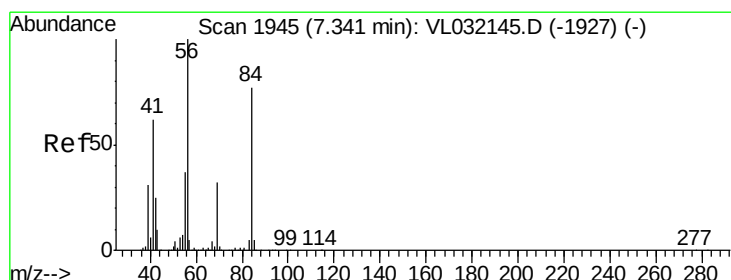
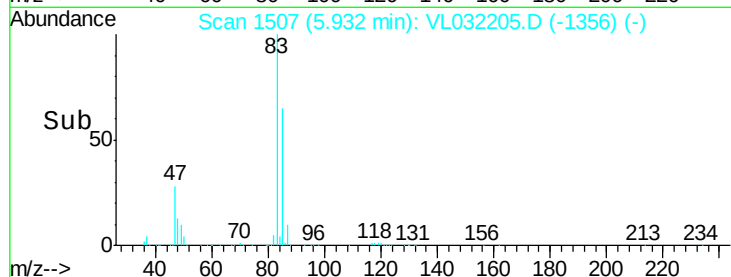
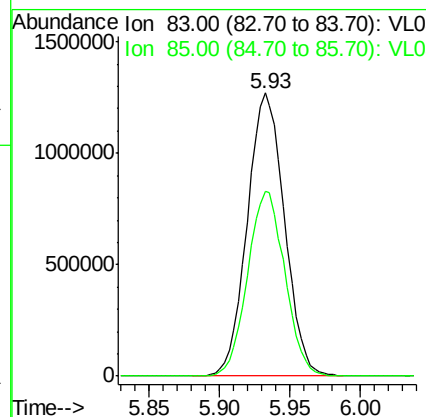
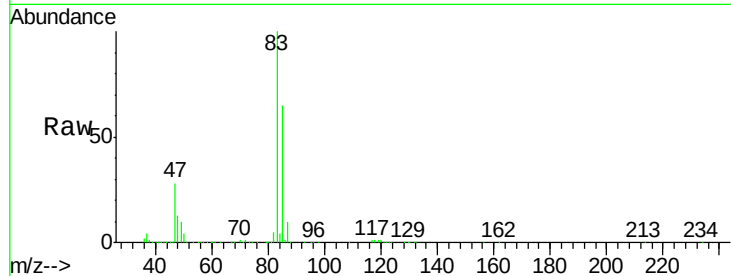
#29
Chloroform
Concen: 9.87 ppbv
RT: 5.93 min Scan# 1507
Delta R.T. -0.02 min
Lab File: VL032205.D
Acq: 5 Jul 2018 15:28

Instrument :
MSVOA_L
ClientSampleId :
VL0705ABS01

Tot Ion: 83 Resp: 2351890
Ion Ratio Lower Upper
83 100
85 65.0 51.6 77.4

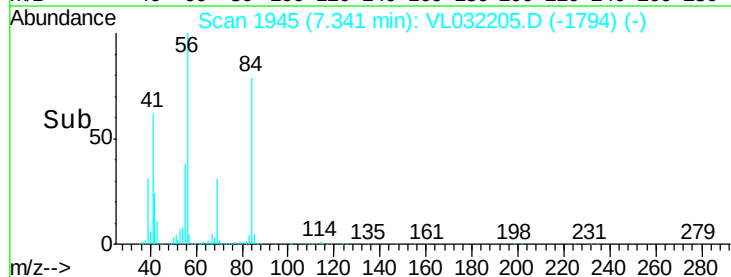
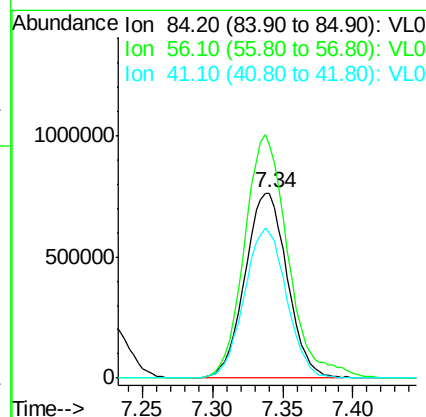
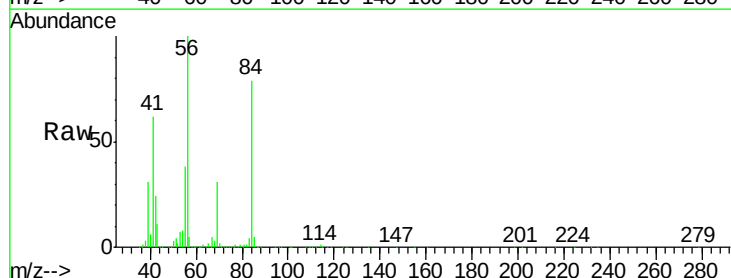
Manual Integrations
APPROVED

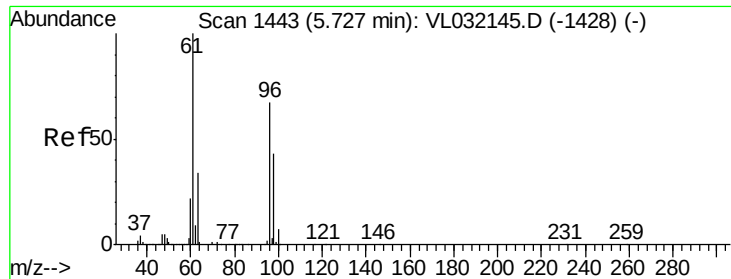
MMDadoda
7/9/2018 10:47:31 AM



#30
Cyclohexane
Concen: 10.36 ppbv
RT: 7.34 min Scan# 1945
Delta R.T. -0.02 min
Lab File: VL032205.D
Acq: 5 Jul 2018 15:28

Tgt Ion: 84 Resp: 1598312
Ion Ratio Lower Upper
84 100
56 136.1 109.1 163.7
41 80.7 64.6 96.8





#31

cis-1,2-Dichloroethene

Concen: 9.92 ppbv

RT: 5.72 min Scan# 1442

Delta R.T. -0.02 min

Lab File: VL032205.D

Acq: 5 Jul 2018 15:28

Instrument :

MSVOA_L

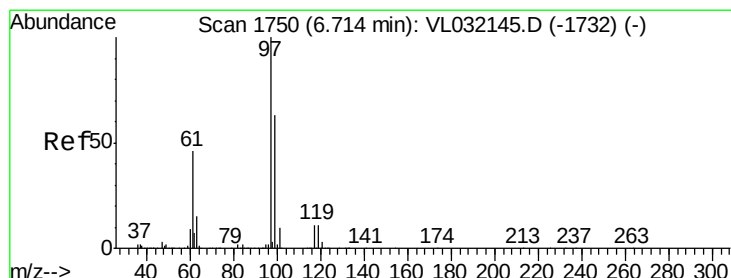
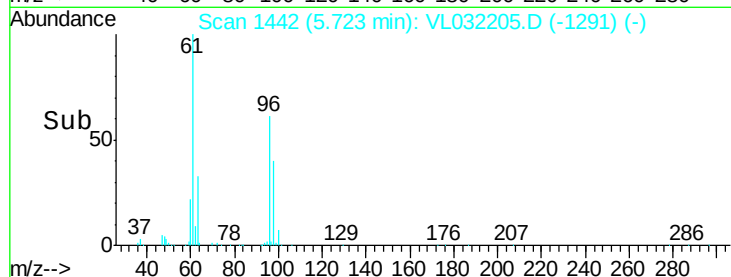
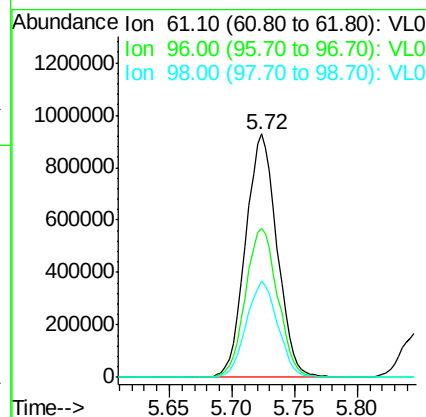
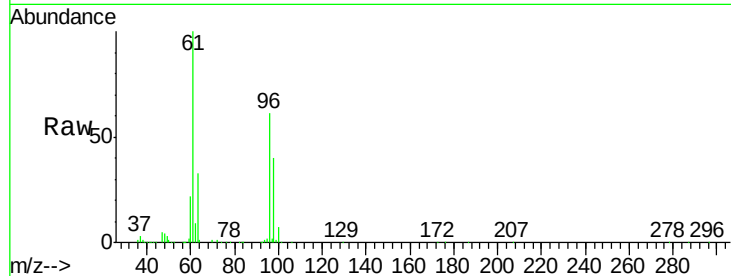
ClientSampleId :

VL0705ABS01

Tot Ion:	61	Resp:	1622463
Ion	Ratio	Lower	Upper
61	100		
96	61.3	54.2	81.4
98	39.7	34.6	52.0

Manual Integrations
APPROVED

MMDadoda
7/9/2018 10:47:31 AM



#32

1,1,1-Trichloroethane

Concen: 10.99 ppbv

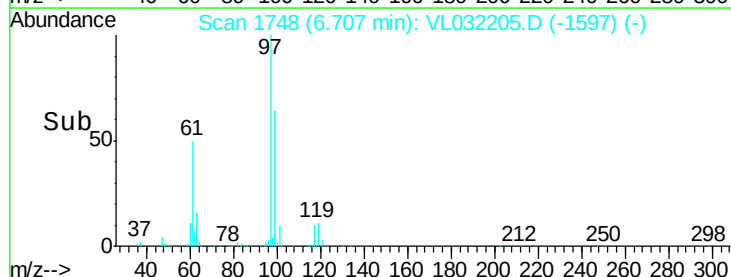
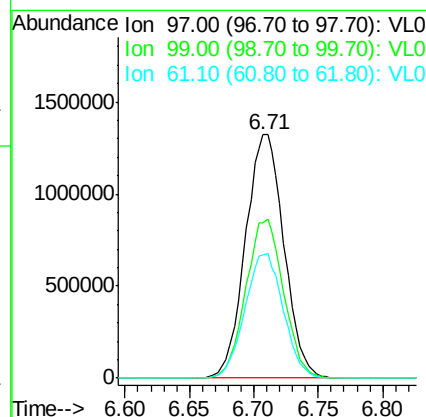
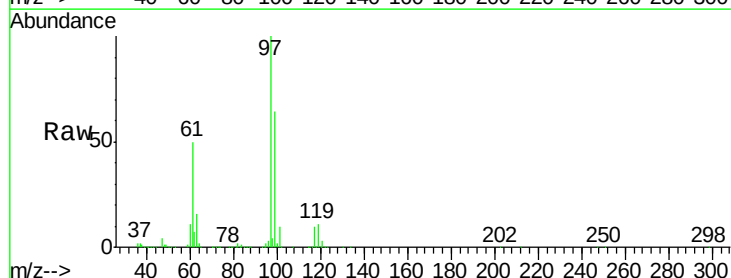
RT: 6.71 min Scan# 1748

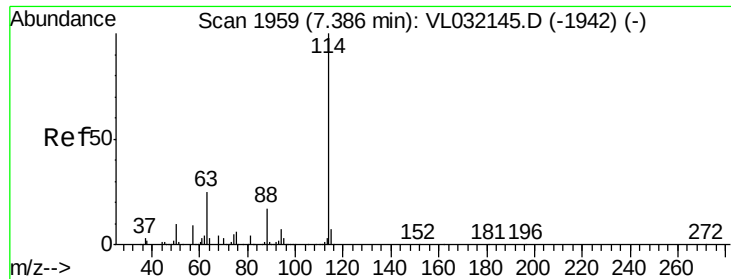
Delta R.T. -0.02 min

Lab File: VL032205.D

Acq: 5 Jul 2018 15:28

Tgt Ion:	97	Resp:	2744421
Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.3	76.9
61	51.2	38.4	57.6





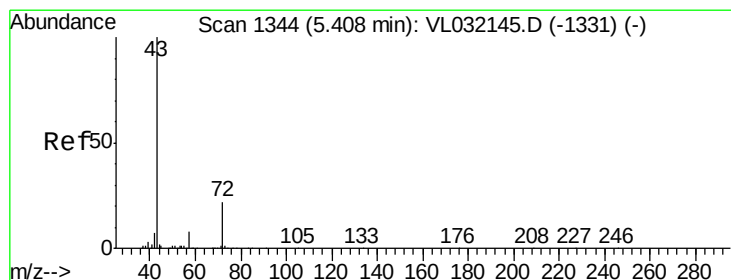
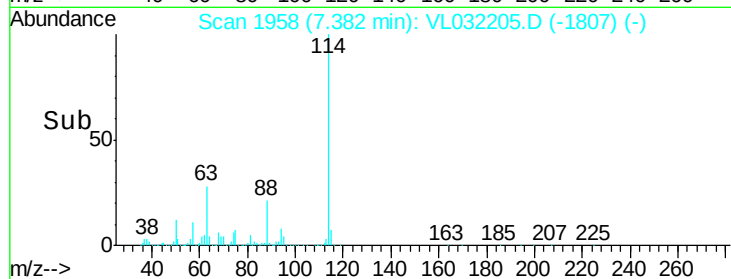
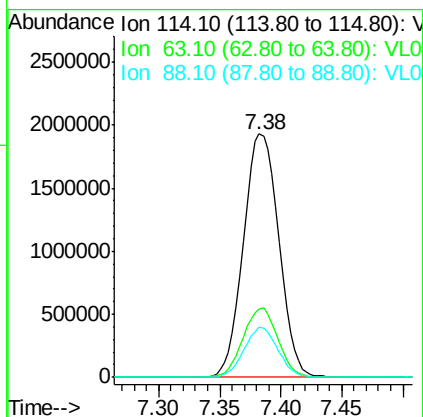
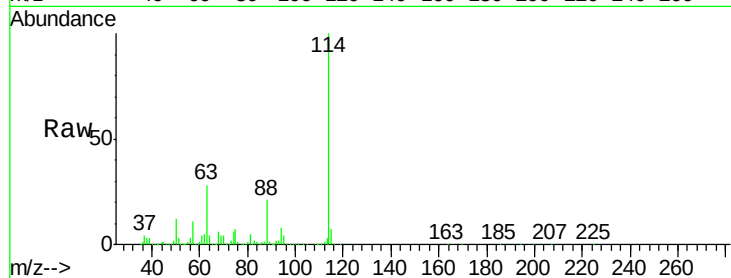
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.38 min Scan# 1958
 Delta R.T. -0.02 min
 Lab File: VL032205.D
 Acq: 5 Jul 2018 15:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0705ABS01

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.3	19.1	28.7
88	19.5	13.9	20.9

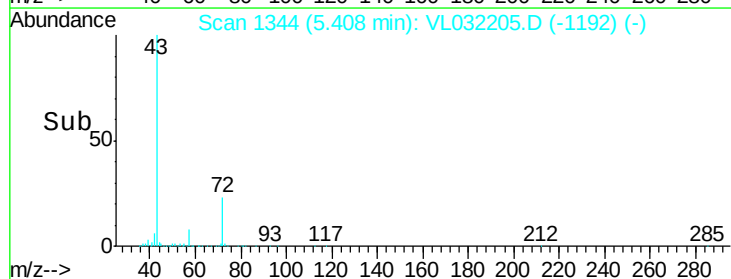
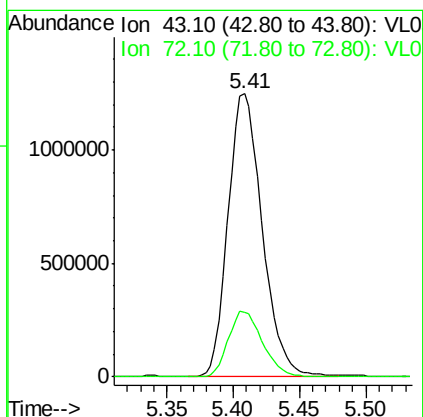
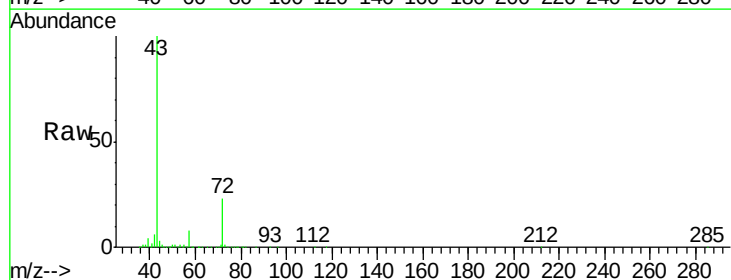
Manual Integrations
 APPROVED

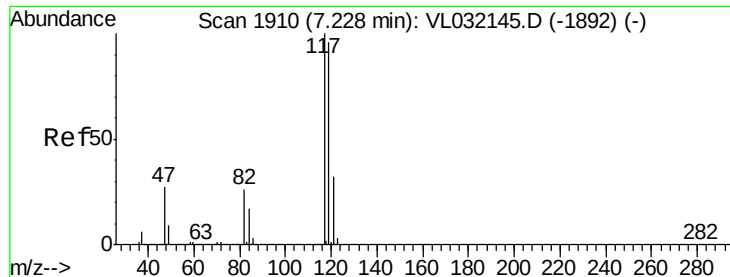
MMDadoda
 7/9/2018 10:47:31 AM



#34
 2-Butanone
 Concen: 9.13 ppbv
 RT: 5.41 min Scan# 1344
 Delta R.T. -0.01 min
 Lab File: VL032205.D
 Acq: 5 Jul 2018 15:28

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.4	18.4	27.6





#35

Carbon Tetrachloride

Concen: 10.23 ppbv

RT: 7.22 min Scan# 1909

Delta R.T. -0.02 min

Lab File: VL032205.D

Acq: 5 Jul 2018 15:28

Instrument :

MSVOA_L

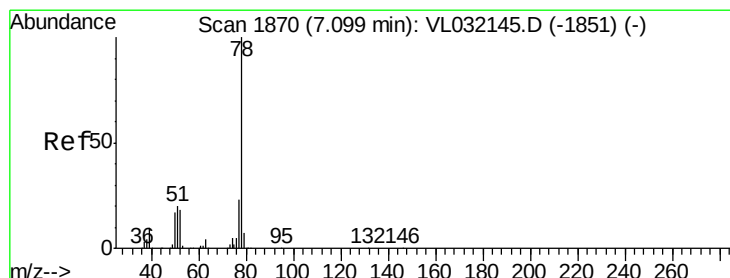
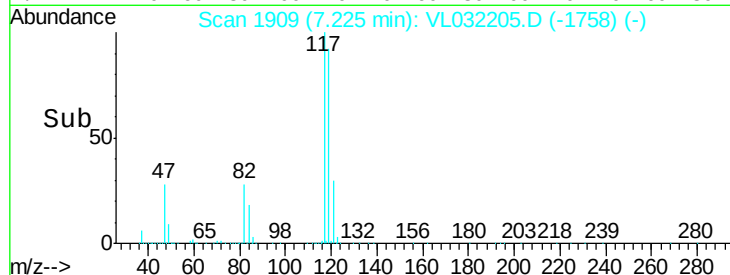
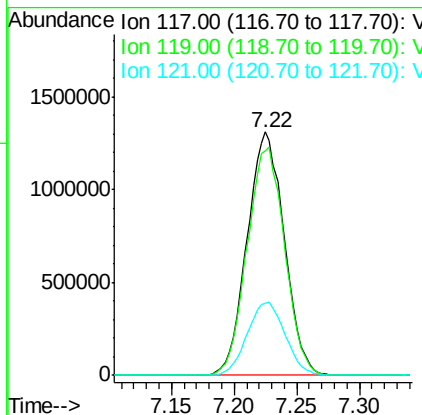
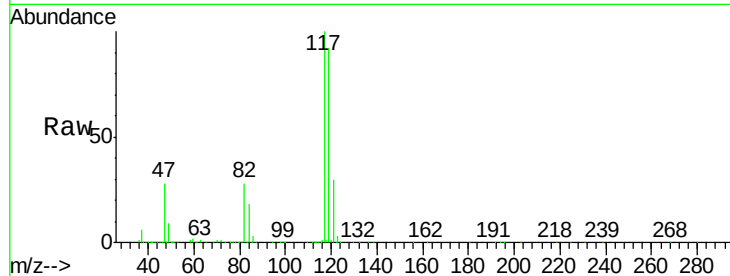
ClientSampleId :

VL0705ABS01

Tot Ion:117	Resp: 2700754		
Ion Ratio	Lower	Upper	
117	100		
119	92.1	74.8	112.2
121	29.6	24.0	36.0

Manual Integrations
APPROVED

MMDadoda
7/9/2018 10:47:31 AM



#36

Benzene

Concen: 10.22 ppbv

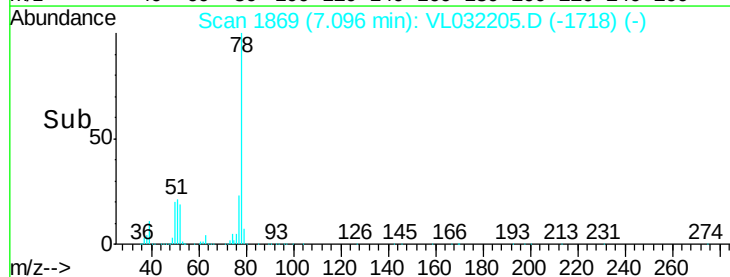
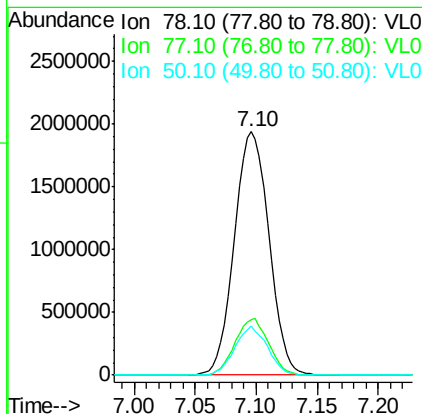
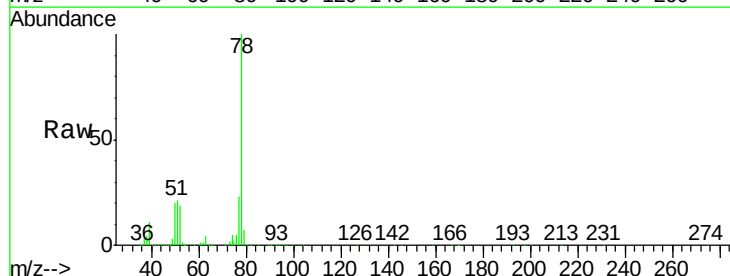
RT: 7.10 min Scan# 1869

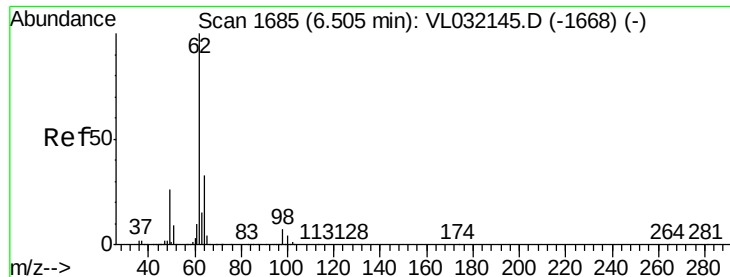
Delta R.T. -0.02 min

Lab File: VL032205.D

Acq: 5 Jul 2018 15:28

Tgt Ion: 78	Resp: 3813467
Ion Ratio	Lower Upper
78 100	
77 22.6	17.7 26.5
50 20.3	14.0 21.0





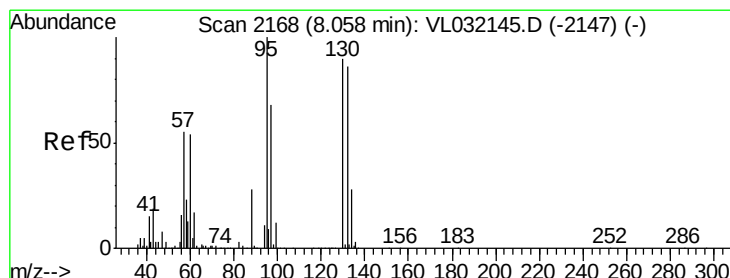
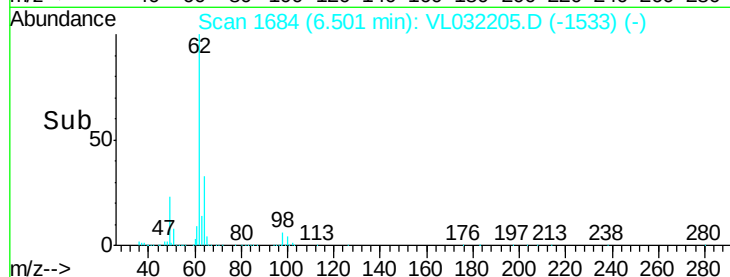
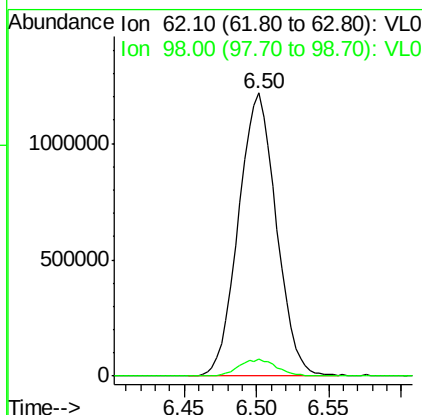
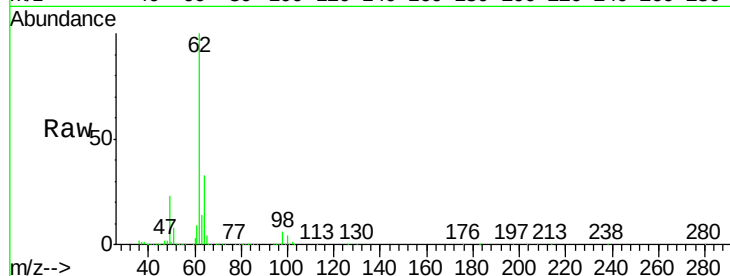
#37
 1,2-Dichloroethane
 Concen: 11.90 ppbv
 RT: 6.50 min Scan# 1684
 Delta R.T. -0.02 min
 Lab File: VL032205.D
 Acq: 5 Jul 2018 15:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0705ABS01

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.9	5.8	8.6

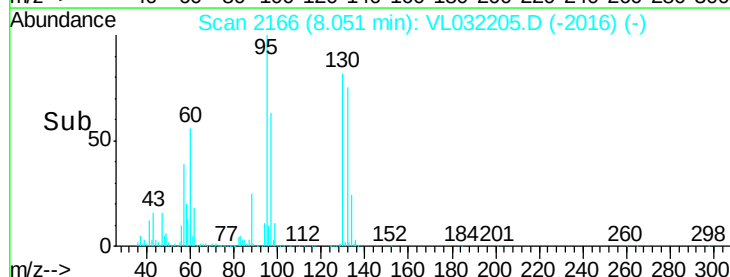
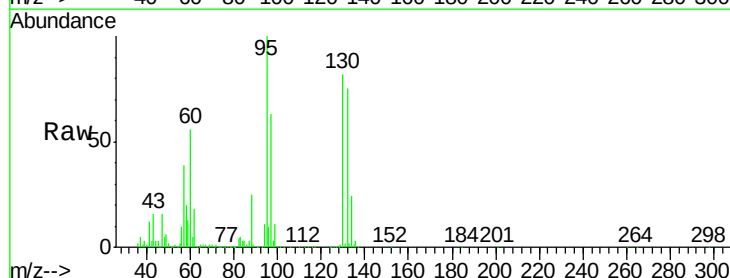
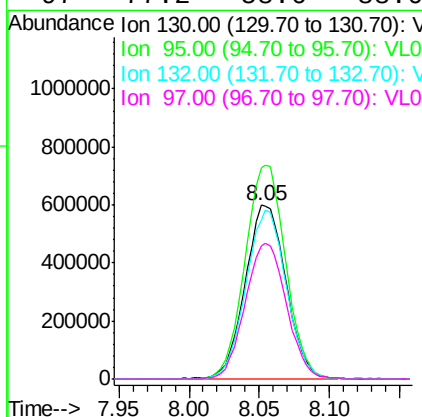
Manual Integrations
 APPROVED

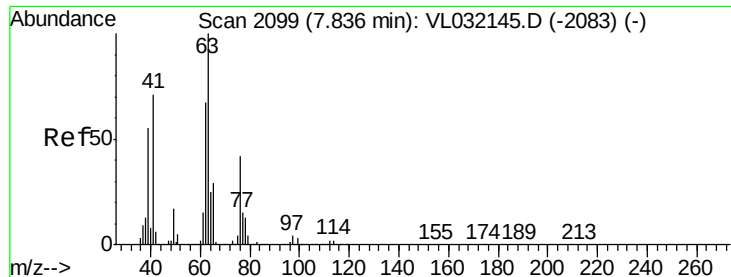
MMDadoda
 7/9/2018 10:47:31 AM



#38
 Trichloroethene
 Concen: 8.25 ppbv
 RT: 8.05 min Scan# 2166
 Delta R.T. -0.02 min
 Lab File: VL032205.D
 Acq: 5 Jul 2018 15:28

Tgt Ion	Ratio	Lower	Upper
130	100		
95	122.1	88.1	132.1
132	91.8	74.6	112.0
97	77.2	58.6	88.0





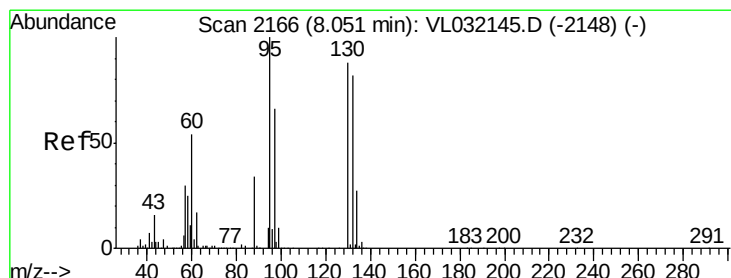
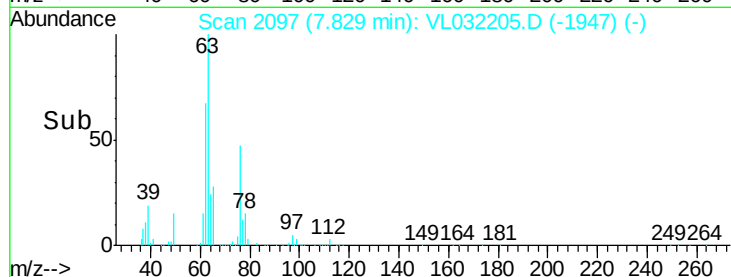
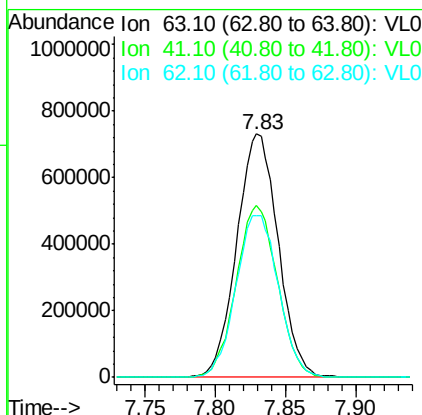
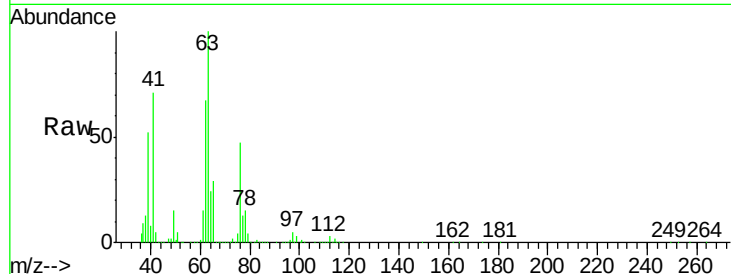
#39
 1,2-Dichloropropane
 Concen: 10.20 ppbv
 RT: 7.83 min Scan# 2097
 Delta R.T. -0.02 min
 Lab File: VL032205.D
 Acq: 5 Jul 2018 15:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0705ABS01

Tot Ion	Ratio	Lower	Upper
63	100		
41	70.4	53.3	79.9
62	66.3	54.8	82.2

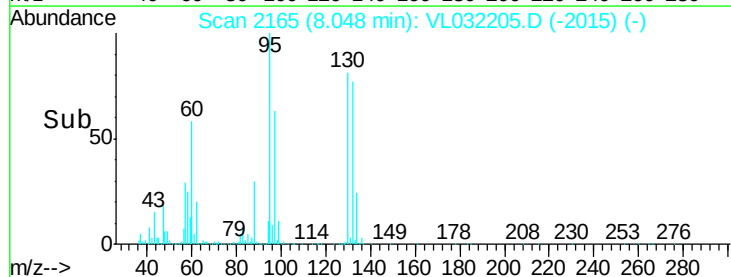
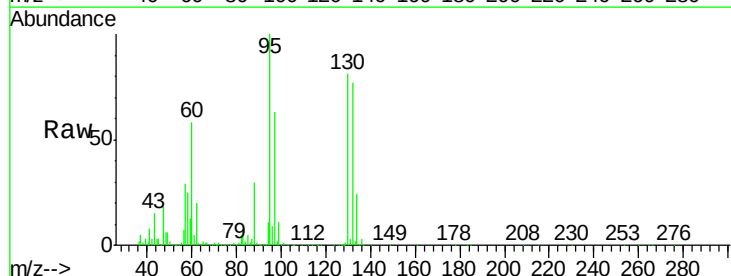
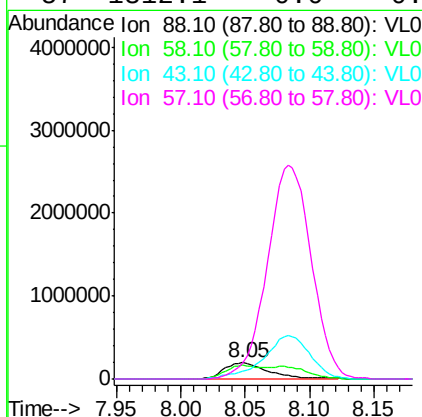
Manual Integrations
 APPROVED

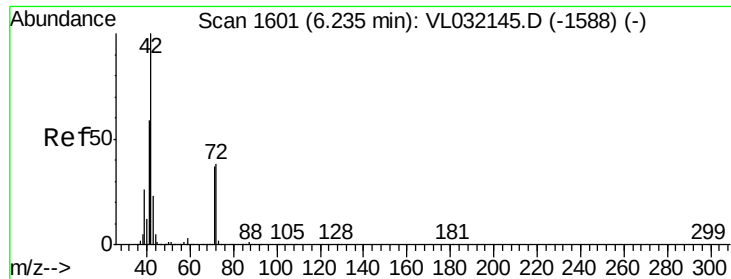
MMDadoda
 7/9/2018 10:47:31 AM



#40
 1,4-Dioxane
 Concen: 8.13 ppbv
 RT: 8.05 min Scan# 2165
 Delta R.T. -0.02 min
 Lab File: VL032205.D
 Acq: 5 Jul 2018 15:28

Tgt Ion	Ratio	Lower	Upper
88	100		
58	137.9	47.4	71.0#
43	282.5	0.0	0.0#
57	1312.1	0.0	0.0#





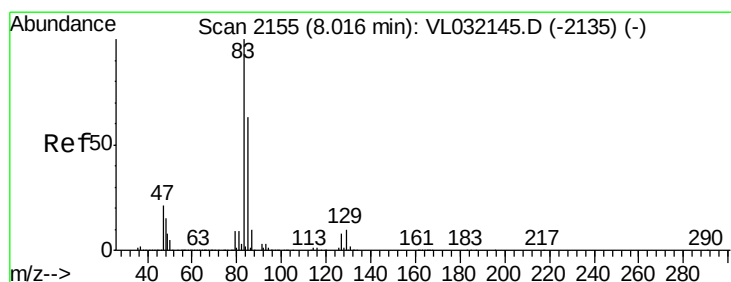
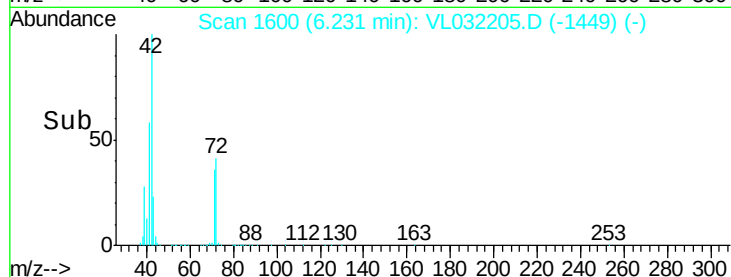
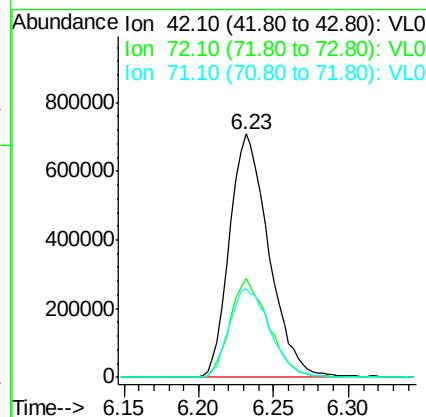
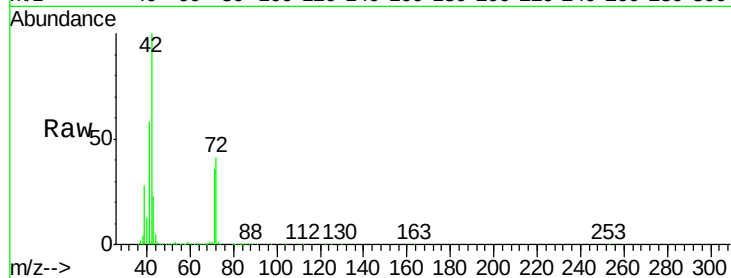
#41
Tetrahydrofuran
Concen: 8.84 ppbv
RT: 6.23 min Scan# 1600
Delta R.T. -0.02 min
Lab File: VL032205.D
Acq: 5 Jul 2018 15:28

Instrument :
MSVOA_L
ClientSampleId :
VL0705ABS01

Tot Ion: 42 Resp: 1297433
Ion Ratio Lower Upper
42 100
72 40.0 31.1 46.7
71 38.2 29.5 44.3

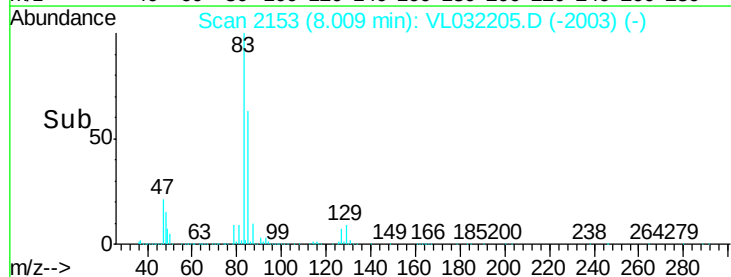
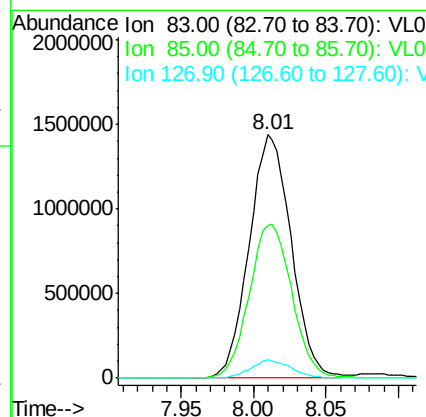
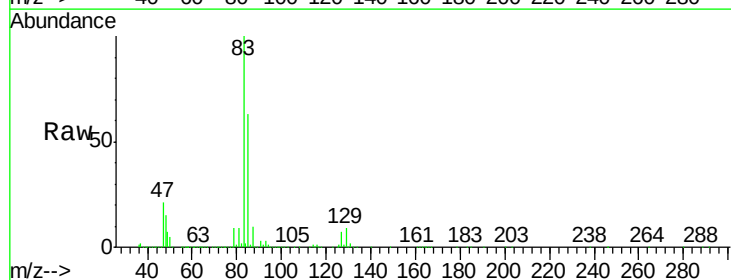
Manual Integrations
APPROVED

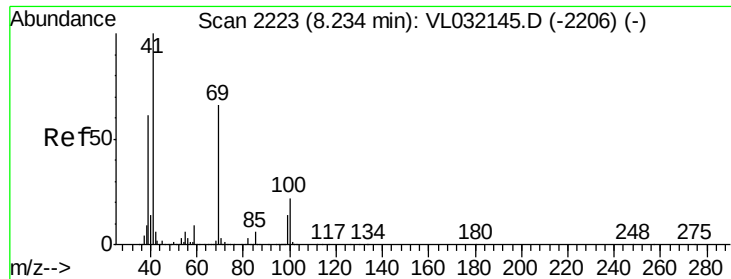
MMDadoda
7/9/2018 10:47:31 AM



#42
Bromodichloromethane
Concen: 9.96 ppbv
RT: 8.01 min Scan# 2153
Delta R.T. -0.02 min
Lab File: VL032205.D
Acq: 5 Jul 2018 15:28

Tgt Ion: 83 Resp: 2904903
Ion Ratio Lower Upper
83 100
85 62.6 52.6 79.0
127 7.3 6.5 9.7





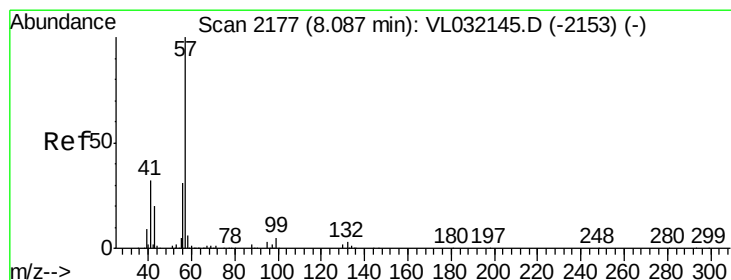
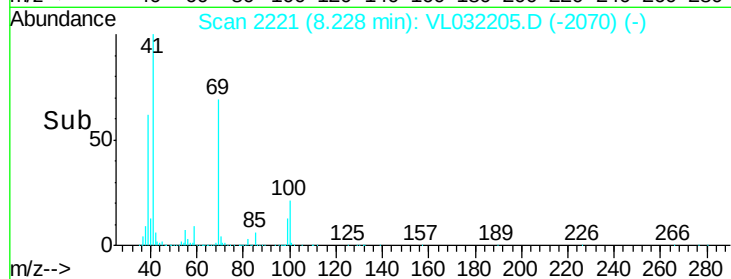
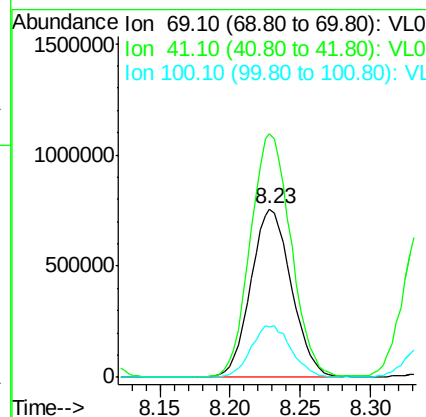
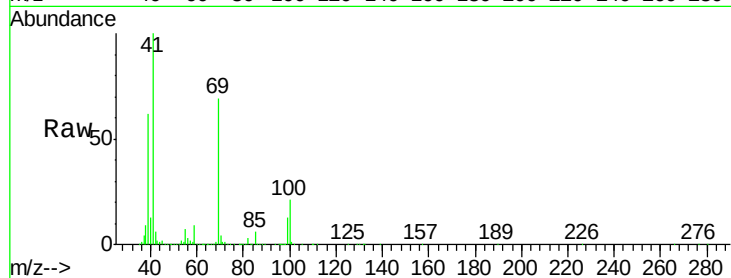
#43
Methyl Methacrylate
Concen: 9.84 ppbv
RT: 8.23 min Scan# 2221
Delta R.T. -0.02 min
Lab File: VL032205.D
Acq: 5 Jul 2018 15:28

Instrument :
MSVOA_L
ClientSampled :
VL0705ABS01

Tot Ion: 69 Resp: 1522160
Ion Ratio Lower Upper
69 100
41 145.2 118.2 177.4
100 30.5 27.4 41.2

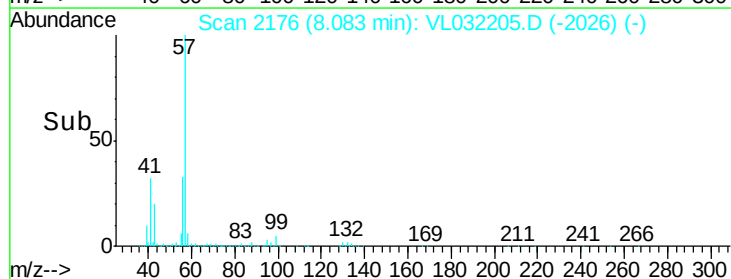
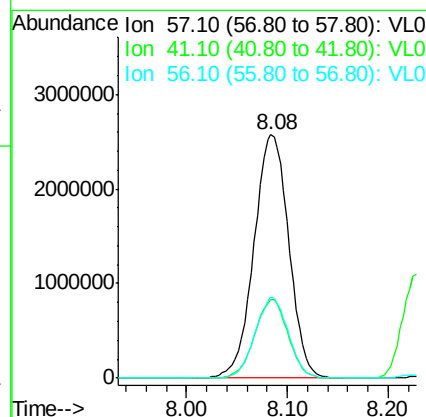
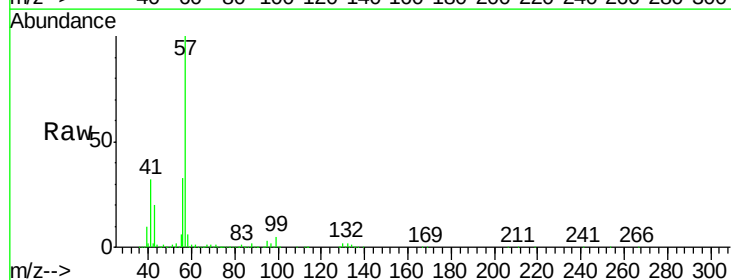
Manual Integrations
APPROVED

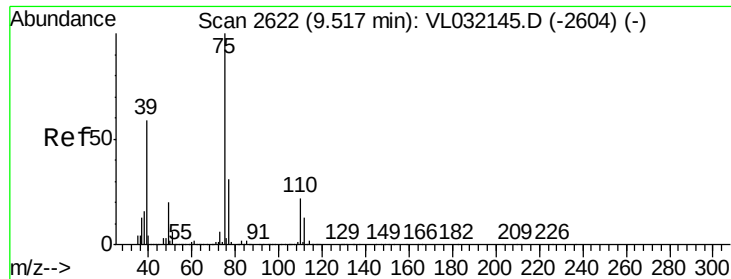
MMDadoda
7/9/2018 10:47:31 AM



#44
2,2,4-Trimethylpentane
Concen: 9.43 ppbv
RT: 8.08 min Scan# 2176
Delta R.T. -0.02 min
Lab File: VL032205.D
Acq: 5 Jul 2018 15:28

Tgt Ion: 57 Resp: 6159769
Ion Ratio Lower Upper
57 100
41 31.0 24.3 36.5
56 31.5 25.1 37.7





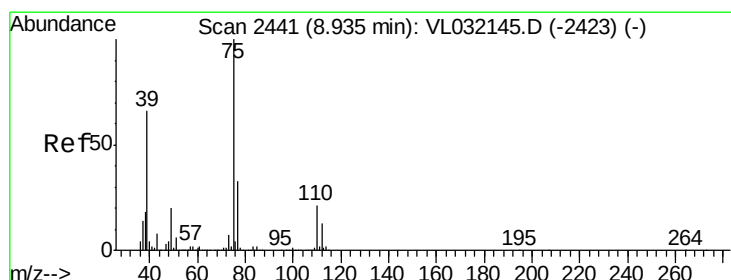
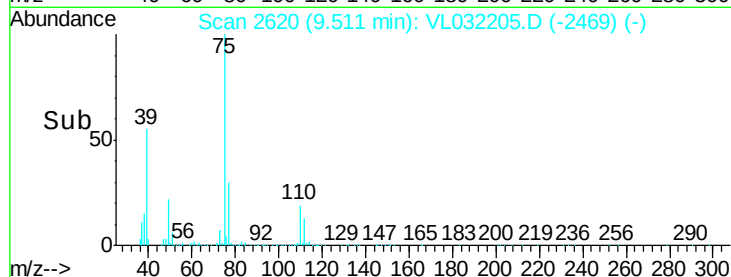
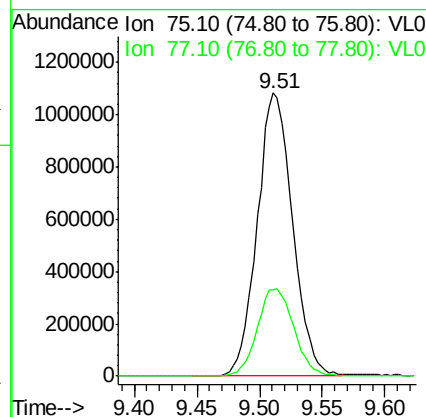
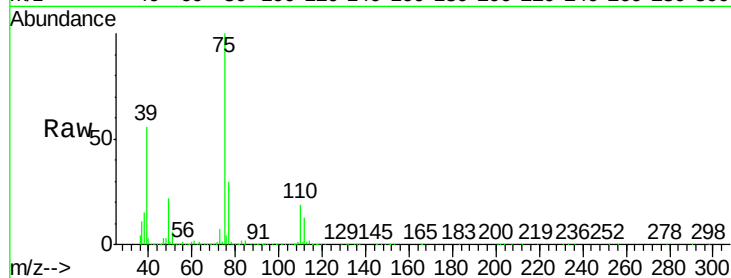
#45
t-1,3-Dichloropropene
Concen: 11.09 ppbv
RT: 9.51 min Scan# 2620
Delta R.T. -0.02 min
Lab File: VL032205.D
Acq: 5 Jul 2018 15:28

Instrument :
MSVOA_L
ClientSampleId :
VL0705ABS01

Tot Ion: 75 Resp: 2126269
Ion Ratio Lower Upper
75 100
77 30.4 25.6 38.4

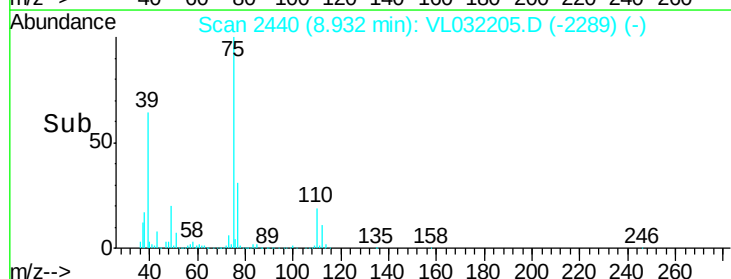
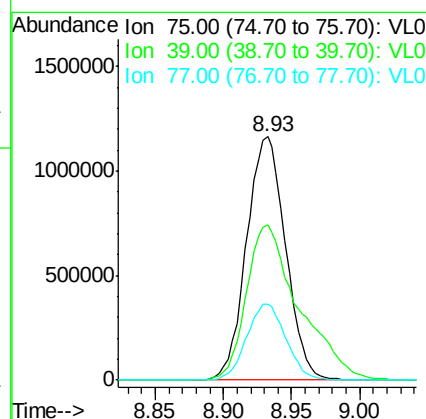
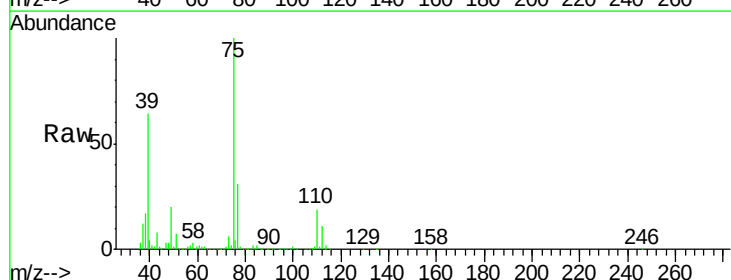
Manual Integrations
APPROVED

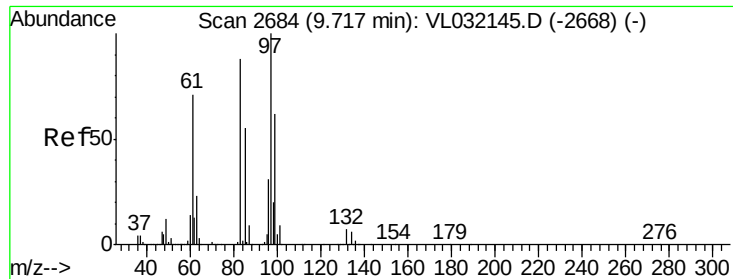
MMDadoda
7/9/2018 10:47:31 AM



#46
cis-1,3-Dichloropropene
Concen: 10.09 ppbv
RT: 8.93 min Scan# 2440
Delta R.T. -0.02 min
Lab File: VL032205.D
Acq: 5 Jul 2018 15:28

Tgt Ion: 75 Resp: 2309945
Ion Ratio Lower Upper
75 100
39 63.7 51.9 77.9
77 31.3 24.3 36.5





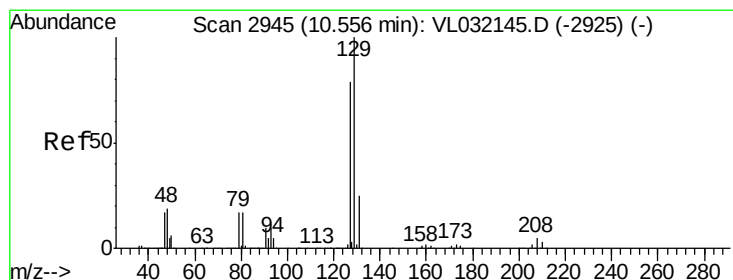
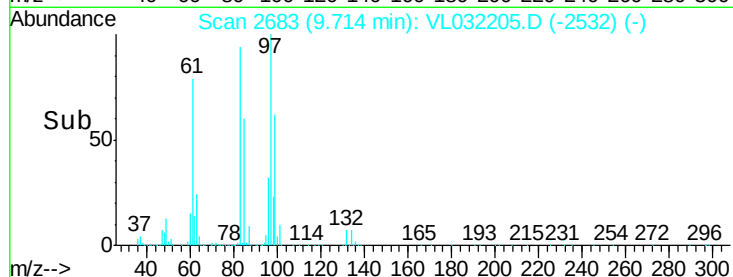
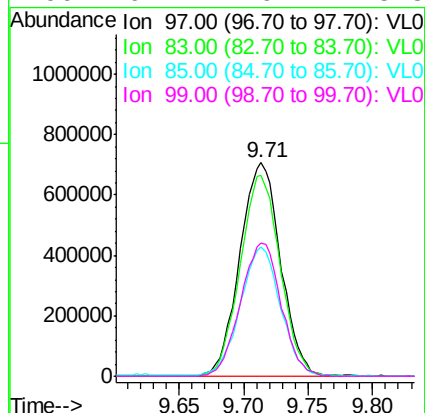
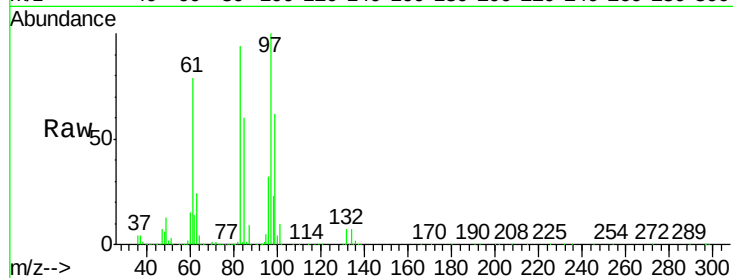
#47
 1,1,2-Trichloroethane
 Concen: 10.14 ppbv
 RT: 9.71 min Scan# 2683
 Delta R.T. -0.02 min
 Lab File: VL032205.D
 Acq: 5 Jul 2018 15:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0705ABS01

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	94.0	71.0	106.4	
85	60.1	44.2	66.4	
99	62.4	49.2	73.8	

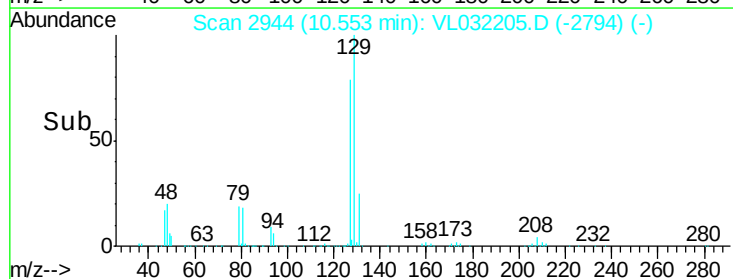
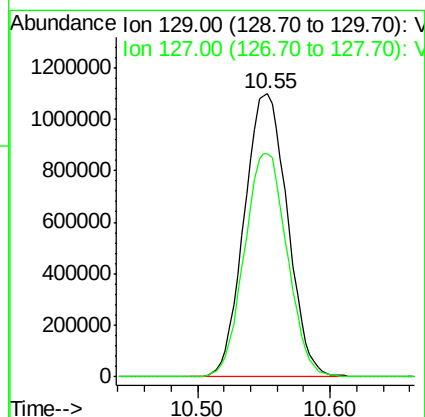
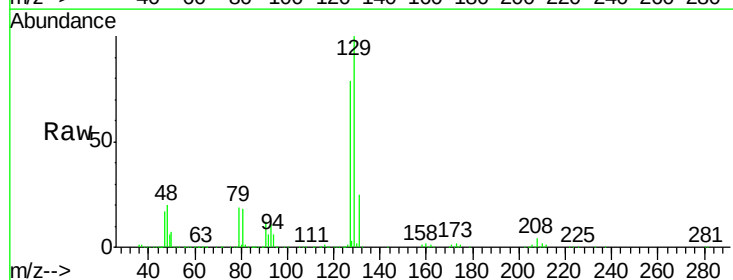
Manual Integrations
 APPROVED

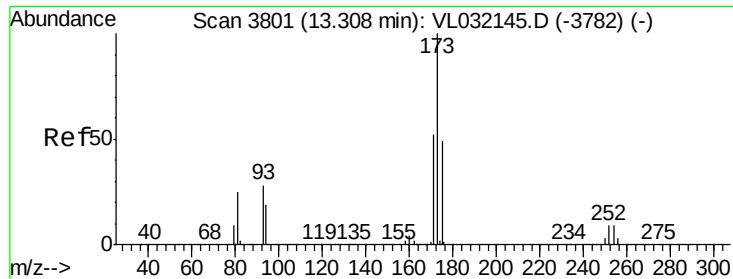
MMDadoda
 7/9/2018 10:47:31 AM



#48
 Dibromochloromethane
 Concen: 10.49 ppbv
 RT: 10.55 min Scan# 2944
 Delta R.T. -0.02 min
 Lab File: VL032205.D
 Acq: 5 Jul 2018 15:28

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.6	39.1	117.5	





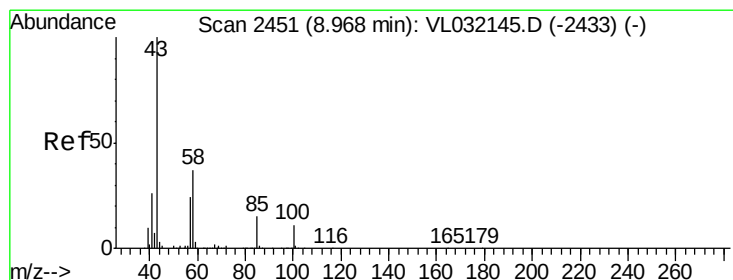
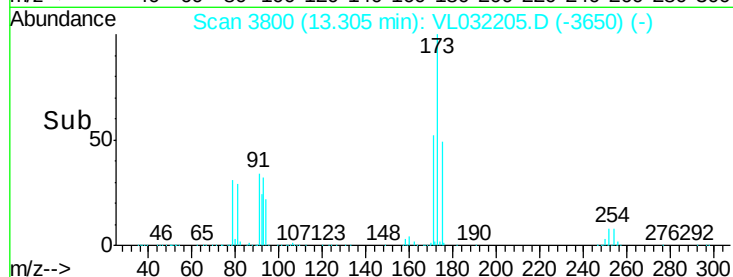
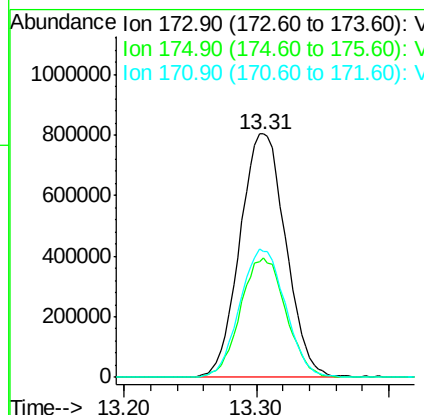
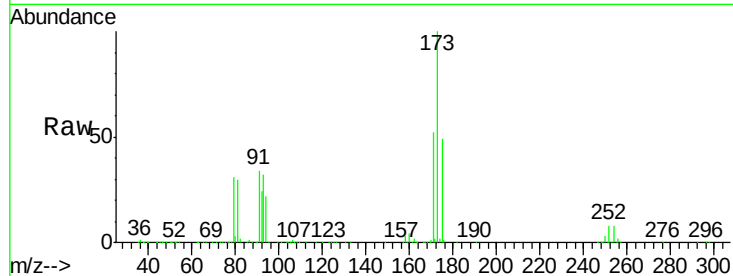
#49
Bromoform
Concen: 9.70 ppbv
RT: 13.31 min Scan# 3800
Delta R.T. -0.02 min
Lab File: VL032205.D
Acq: 5 Jul 2018 15:28

Instrument :
MSVOA_L
ClientSampleId :
VL0705ABS01

Tot Ion:173 Resp: 1923789
Ion Ratio Lower Upper
173 100
175 48.9 39.4 59.0
171 52.7 41.8 62.8

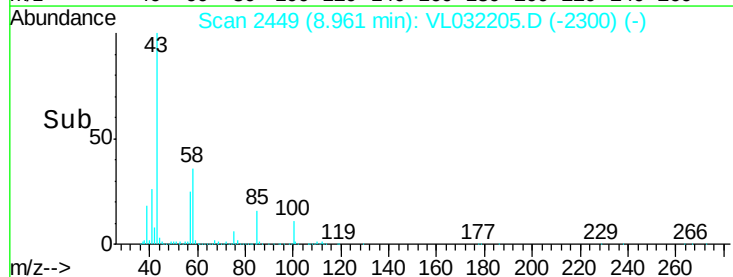
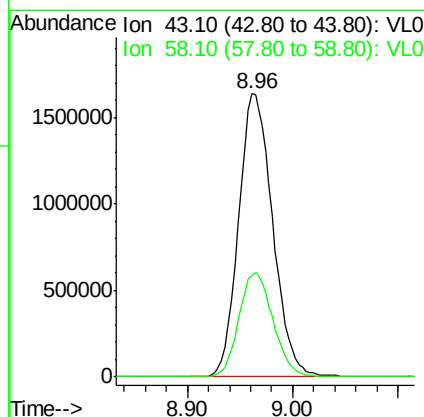
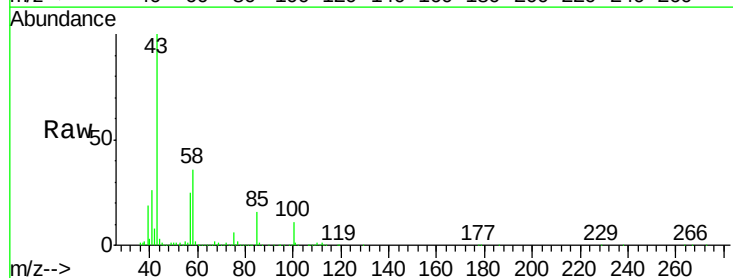
Manual Integrations
APPROVED

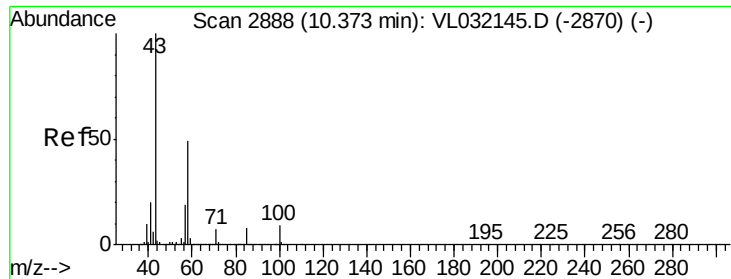
MMDadoda
7/9/2018 10:47:31 AM



#50
4-Methyl-2-Pentanone
Concen: 9.15 ppbv
RT: 8.96 min Scan# 2449
Delta R.T. -0.02 min
Lab File: VL032205.D
Acq: 5 Jul 2018 15:28

Tgt Ion: 43 Resp: 3670288
Ion Ratio Lower Upper
43 100
58 37.0 29.8 44.6





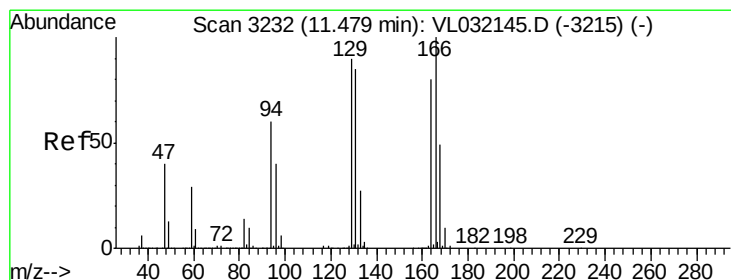
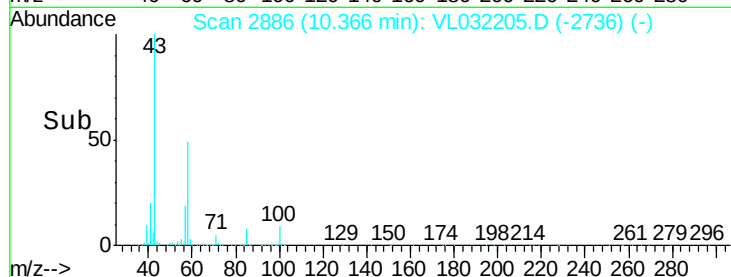
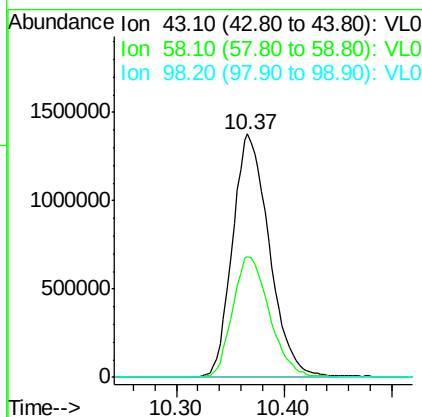
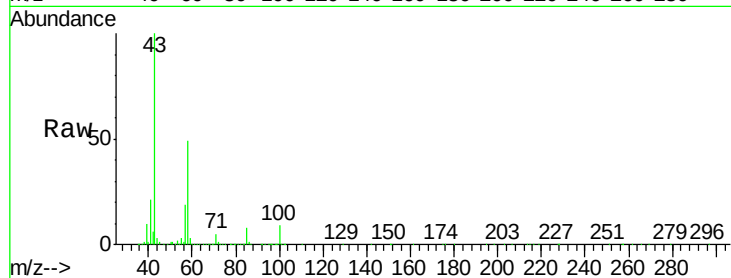
#51
2-Hexanone
Concen: 9.84 ppbv
RT: 10.37 min Scan# 2886
Delta R.T. -0.02 min
Lab File: VL032205.D
Acq: 5 Jul 2018 15:28

Instrument :
MSVOA_L
ClientSampleId :
VL0705ABS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	50.2	40.6	60.8
98	0.3	0.1	0.1#

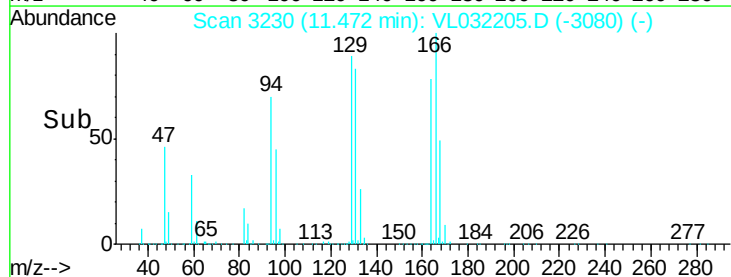
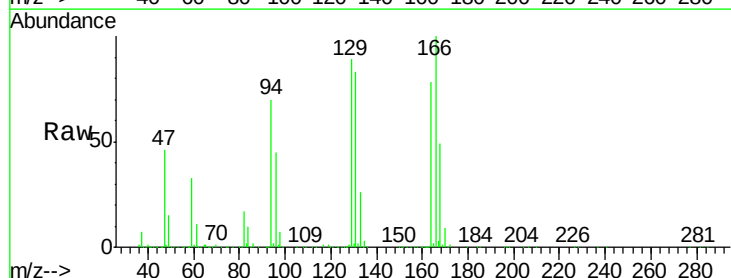
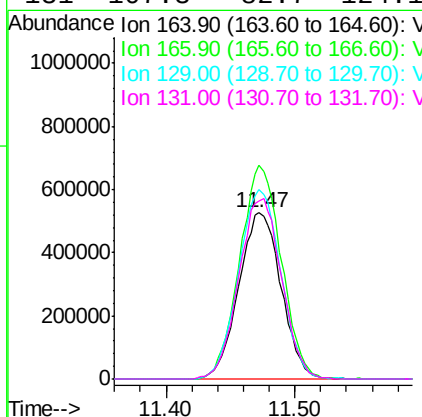
Manual Integrations
APPROVED

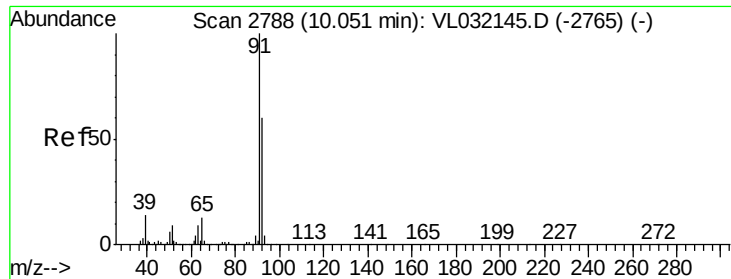
MMDadoda
7/9/2018 10:47:31 AM



#52
Tetrachloroethene
Concen: 8.87 ppbv
RT: 11.47 min Scan# 3230
Delta R.T. -0.02 min
Lab File: VL032205.D
Acq: 5 Jul 2018 15:28

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.5	100.6	151.0
129	113.9	84.0	126.0
131	107.3	82.7	124.1





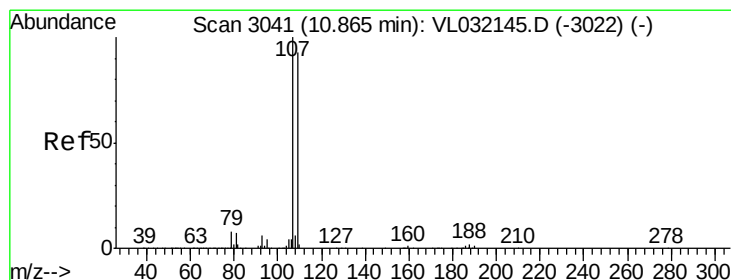
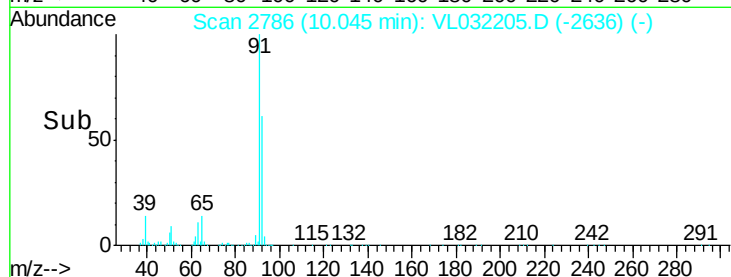
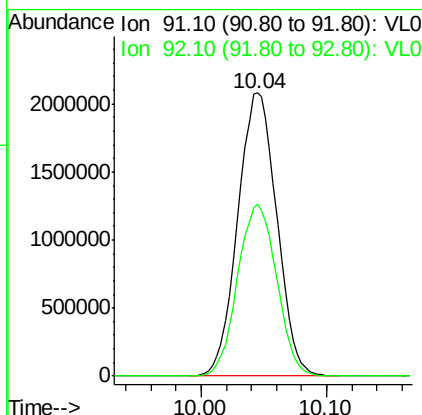
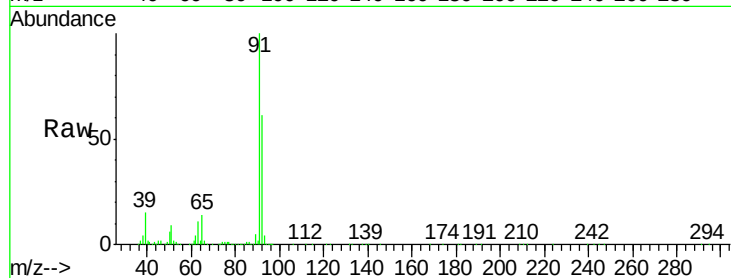
#53
Toluene
Concen: 9.98 ppbv
RT: 10.04 min Scan# 2786
Delta R.T. -0.02 min
Lab File: VL032205.D
Acq: 5 Jul 2018 15:28

Instrument :
MSVOA_L
ClientSampleId :
VL0705ABS01

Tot Ion: 91 Resp: 4503942
Ion Ratio Lower Upper
91 100
92 60.8 49.2 73.8

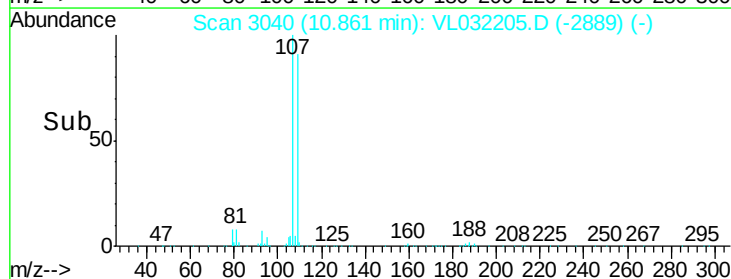
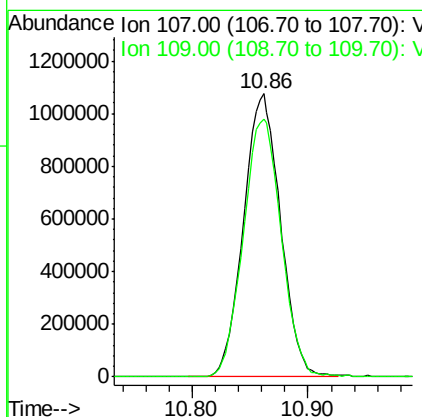
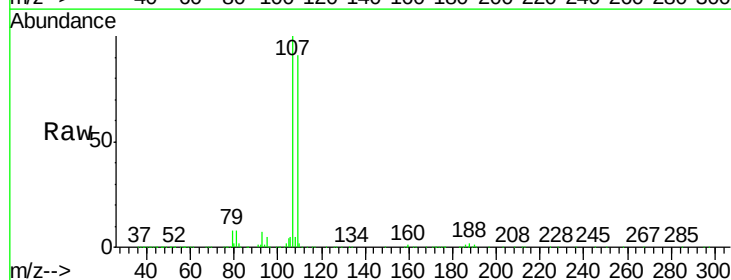
Manual Integrations
APPROVED

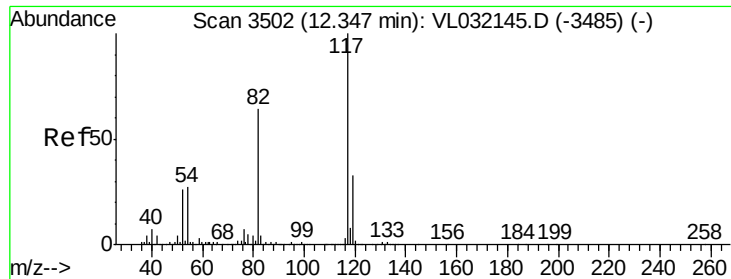
MMDadoda
7/9/2018 10:47:31 AM



#54
1,2-Dibromoethane
Concen: 10.34 ppbv
RT: 10.86 min Scan# 3040
Delta R.T. -0.02 min
Lab File: VL032205.D
Acq: 5 Jul 2018 15:28

Tgt Ion: 107 Resp: 2379365
Ion Ratio Lower Upper
107 100
109 91.2 75.0 112.4





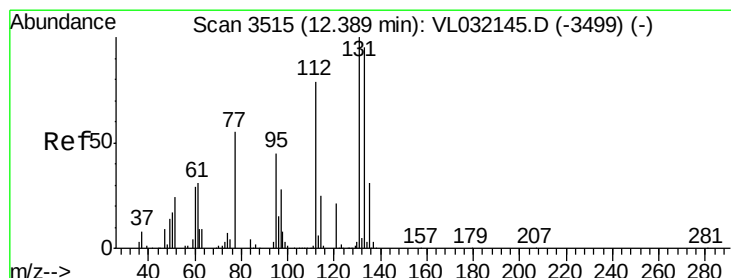
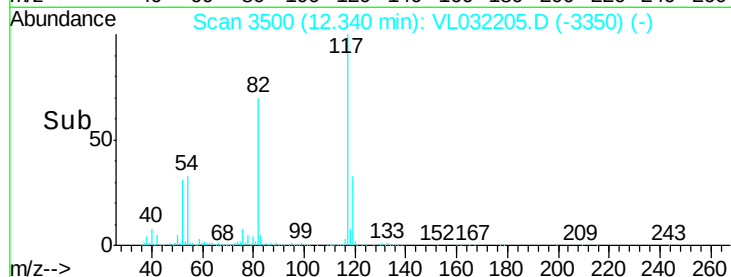
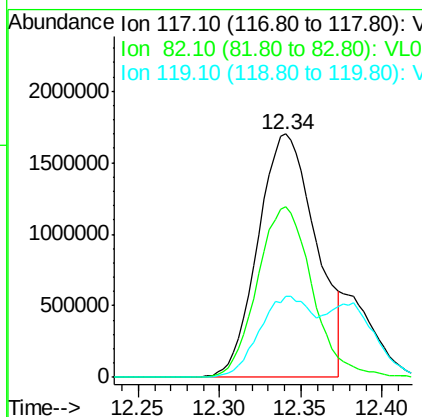
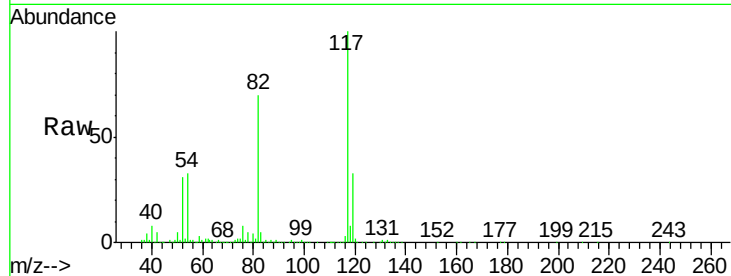
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.34 min Scan# 3500
Delta R.T. -0.02 min
Lab File: VL032205.D
Acq: 5 Jul 2018 15:28

Instrument :
MSVOA_L
ClientSampleId :
VL0705ABS01

Tot Ion:117 Resp: 4198303
Ion Ratio Lower Upper
117 100
82 67.3 47.8 71.8
119 34.1 43.3 64.9#

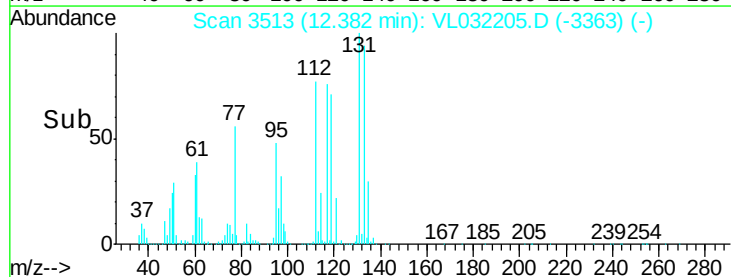
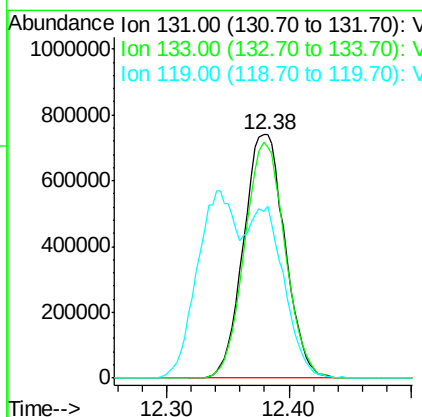
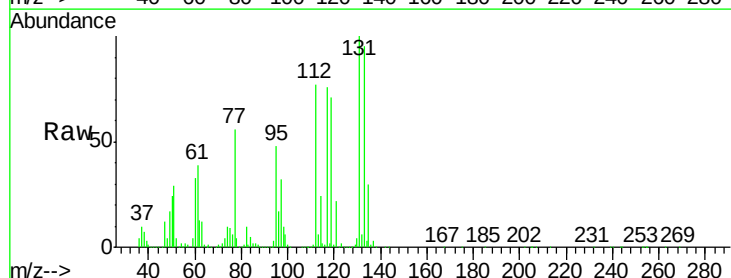
Manual Integrations
APPROVED

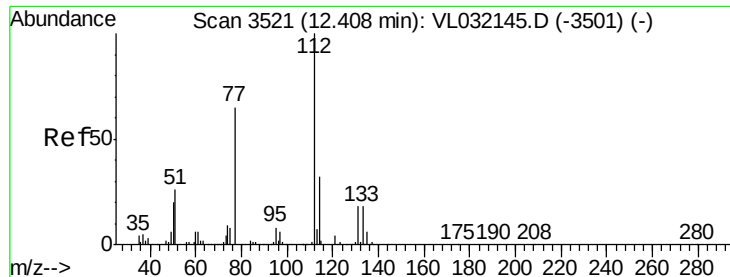
MMDadoda
7/9/2018 10:47:31 AM



#56
1,1,1,2-Tetrachloroethane
Concen: 9.26 ppbv
RT: 12.38 min Scan# 3513
Delta R.T. -0.02 min
Lab File: VL032205.D
Acq: 5 Jul 2018 15:28

Tgt Ion:131 Resp: 1735433
Ion Ratio Lower Upper
131 100
133 94.8 75.5 113.3
119 55.1 118.4 177.6#





#57

Chlorobenzene

Concen: 8.76 ppbv

RT: 12.40 min Scan# 3519

Delta R.T. -0.02 min

Lab File: VL032205.D

Acq: 5 Jul 2018 15:28

Instrument :

MSVOA_L

ClientSampleId :

VL0705ABS01

Tot Ion:112 Resp: 3185077

Ion Ratio Lower Upper

112 100

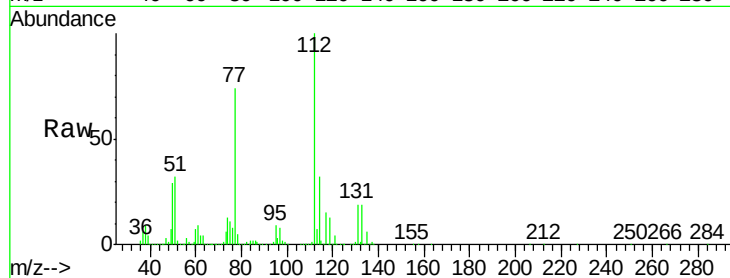
77 73.8 52.6 78.8

114 32.2 27.9 34.1

Manual Integrations
APPROVED

MMDadoda

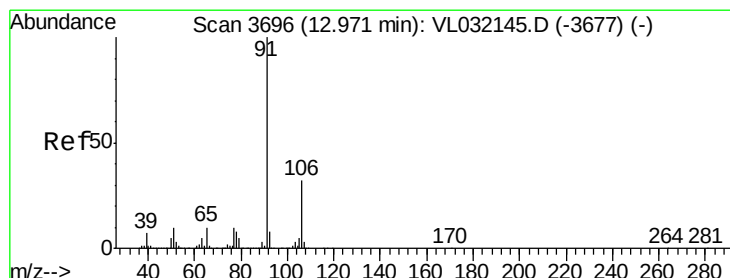
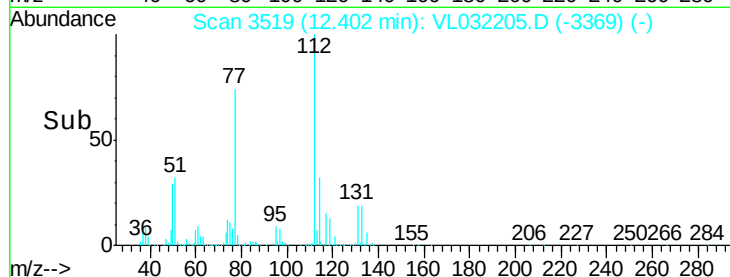
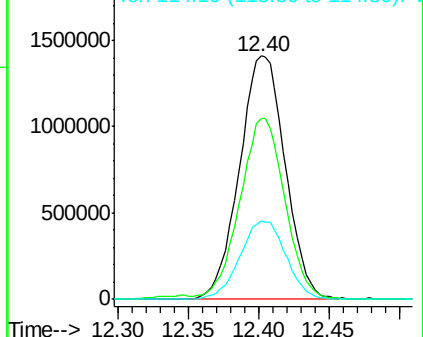
7/9/2018 10:47:31 AM



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: 9.19 ppbv

RT: 12.96 min Scan# 3694

Delta R.T. -0.02 min

Lab File: VL032205.D

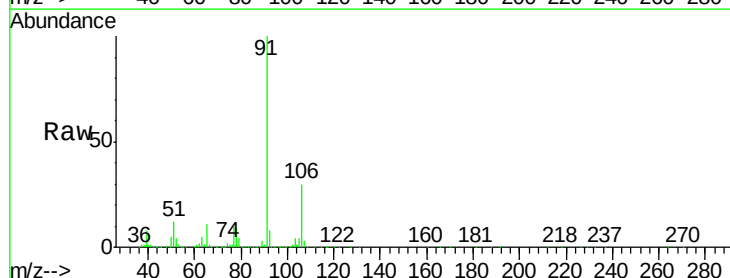
Acq: 5 Jul 2018 15:28

Tgt Ion: 91 Resp: 6214619

Ion Ratio Lower Upper

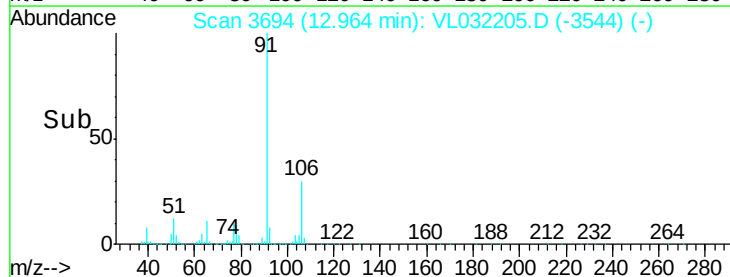
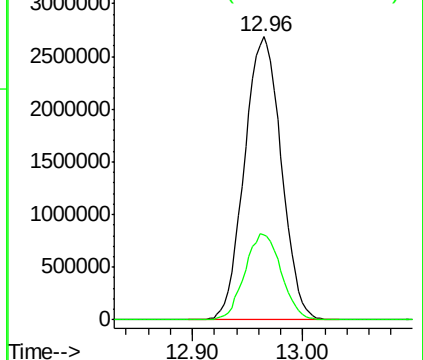
91 100

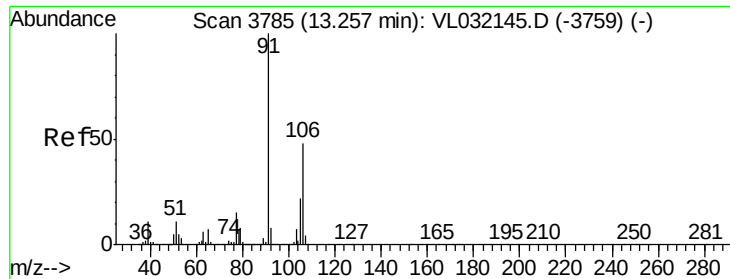
106 29.8 26.5 39.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





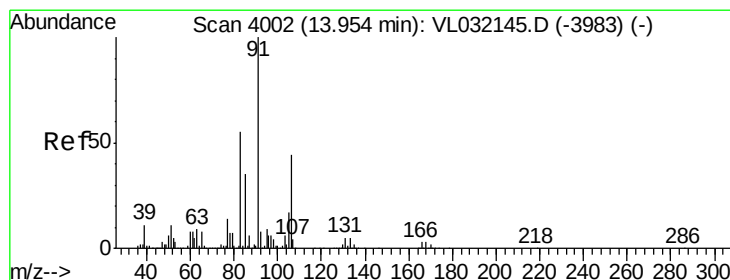
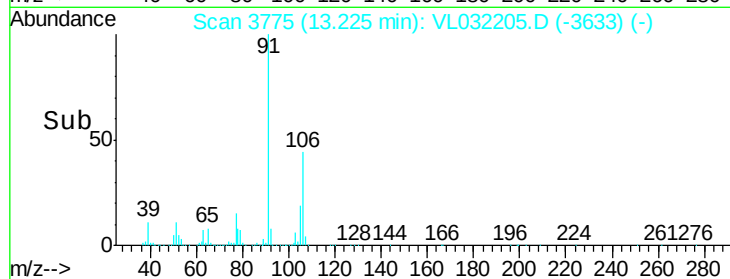
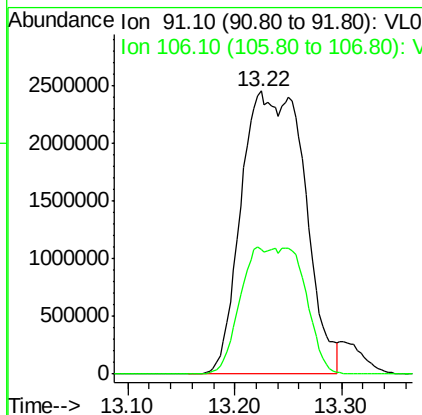
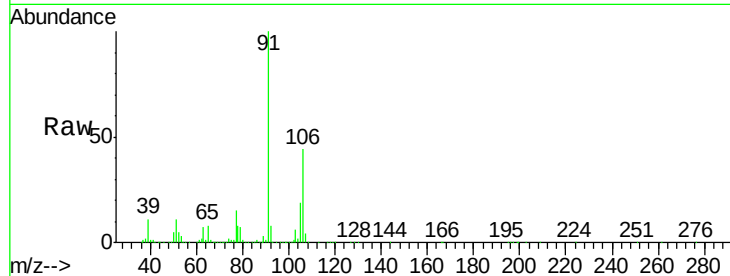
#59
m/p-Xylene
Concen: 18.56 ppbv m
RT: 13.22 min Scan# 3775
Delta R.T. -0.04 min
Lab File: VL032205.D
Acq: 5 Jul 2018 15:28

Instrument :
MSVOA_L
ClientSampleId :
VL0705ABS01

Tot Ion: 91 Resp:10064059
Ion Ratio Lower Upper
91 100
106 0.0 38.6 58.0#

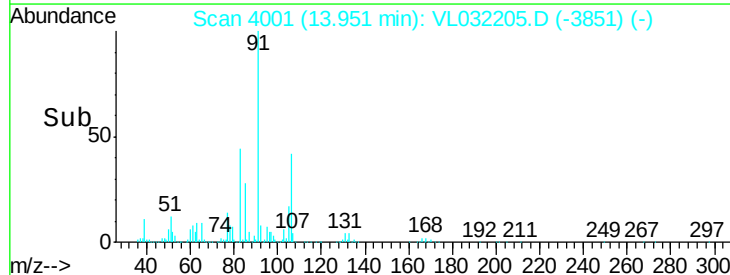
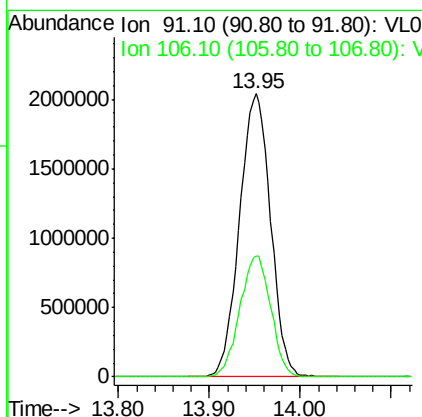
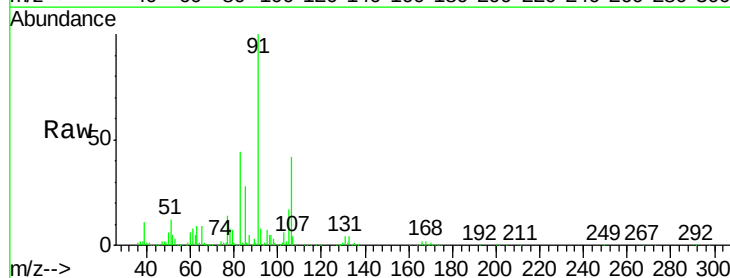
Manual Integrations
APPROVED

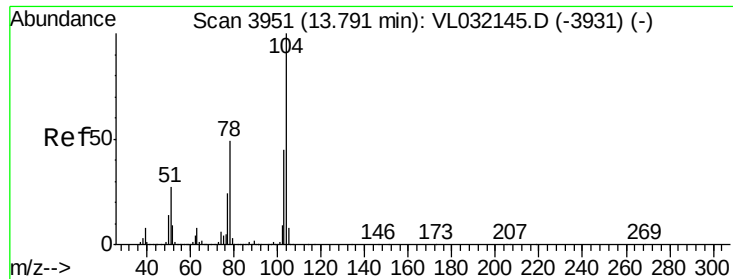
MMDadoda
7/9/2018 10:47:31 AM



#60
o-Xylene
Concen: 8.92 ppbv
RT: 13.95 min Scan# 4001
Delta R.T. -0.02 min
Lab File: VL032205.D
Acq: 5 Jul 2018 15:28

Tgt Ion: 91 Resp: 4826485
Ion Ratio Lower Upper
91 100
106 42.9 23.3 69.8





#61

Stvrene

Concen: 8.93 ppbv

RT: 13.79 min Scan# 3950

Delta R.T. -0.02 min

Lab File: VL032205.D

Acq: 5 Jul 2018 15:28

Instrument :

MSVOA_L

ClientSampleId :

VL0705ABS01

Tot Ion:104 Resp: 3959807

Ion Ratio Lower Upper

104 100

78 54.6 37.9 56.9

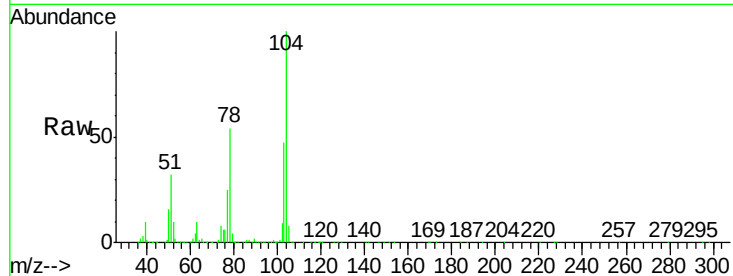
103 47.3 36.6 55.0

Manual Integrations

APPROVED

MMDadoda

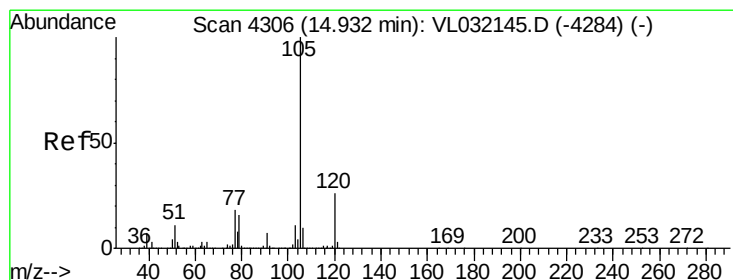
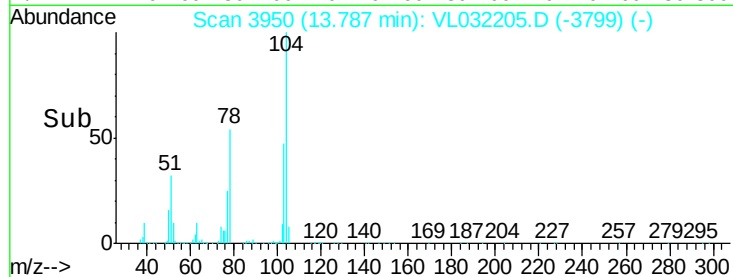
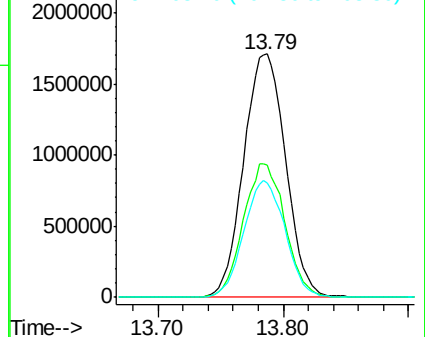
7/9/2018 10:47:31 AM



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: 8.36 ppbv

RT: 14.93 min Scan# 4304

Delta R.T. -0.02 min

Lab File: VL032205.D

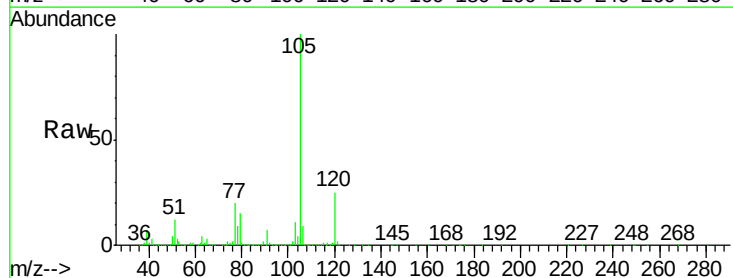
Acq: 5 Jul 2018 15:28

Tgt Ion:105 Resp: 6953253

Ion Ratio Lower Upper

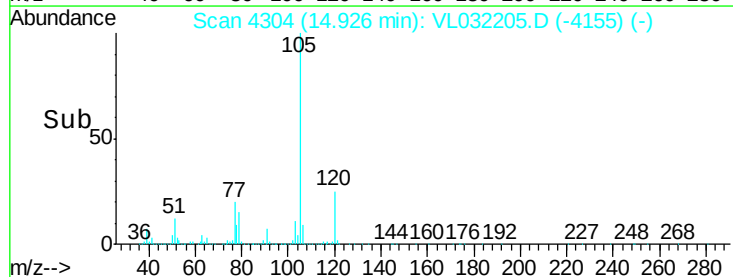
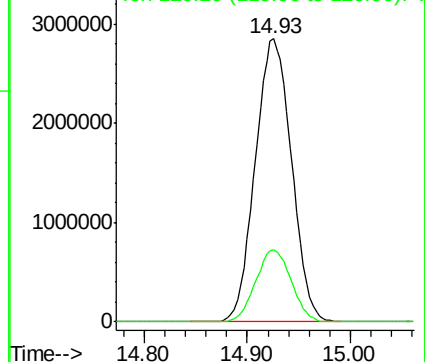
105 100

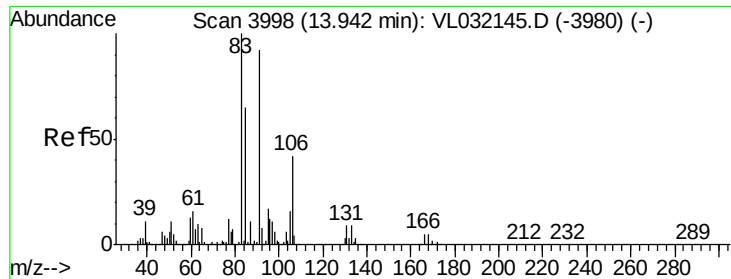
120 25.2 21.0 31.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





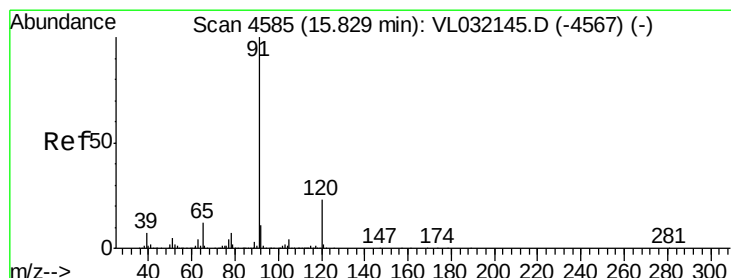
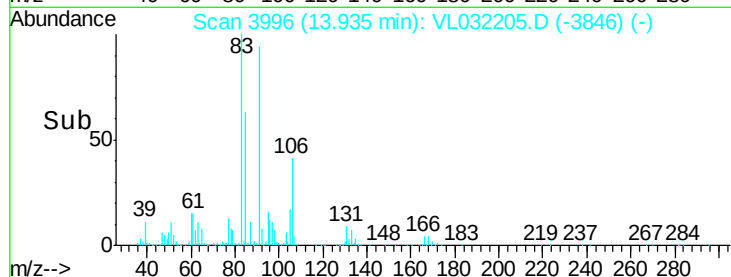
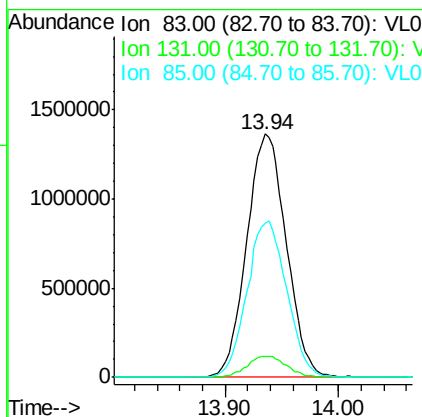
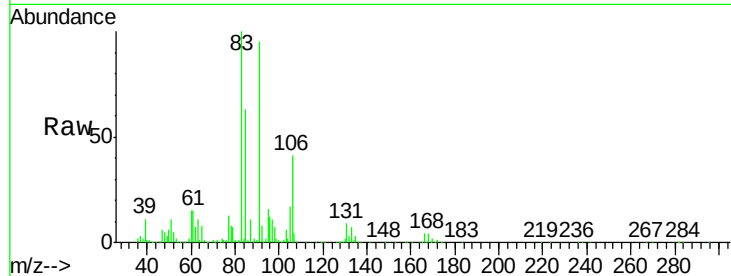
#63
 1,1,2,2-Tetrachloroethane
 Concen: 7.91 ppbv
 RT: 13.94 min Scan# 3996
 Delta R.T. -0.02 min
 Lab File: VL032205.D
 Acq: 5 Jul 2018 15:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0705ABS01

Tot Ion: 83 Resp: 3313671
 Ion Ratio Lower Upper
 83 100
 131 8.7 4.6 13.8
 85 64.6 32.4 97.2

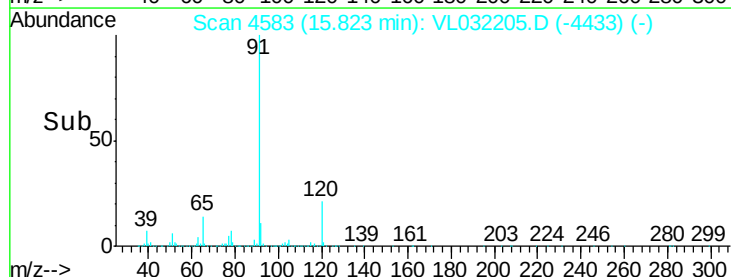
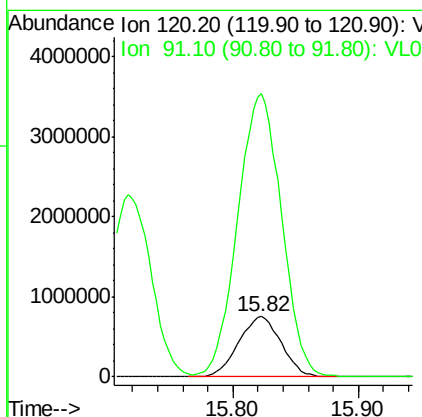
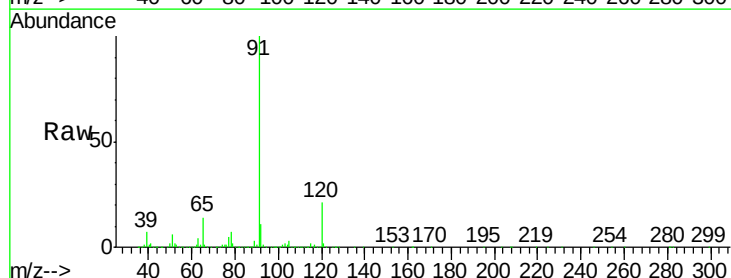
Manual Integrations
 APPROVED

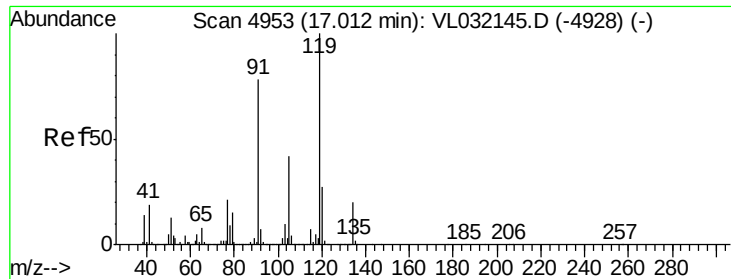
MMDadoda
 7/9/2018 10:47:31 AM



#64
 n-propylbenzene
 Concen: 8.20 ppbv
 RT: 15.82 min Scan# 4583
 Delta R.T. -0.02 min
 Lab File: VL032205.D
 Acq: 5 Jul 2018 15:28

Tgt Ion:120 Resp: 1765942
 Ion Ratio Lower Upper
 120 100
 91 486.9 357.4 536.0





#65

tert-Butylbenzene

Concen: 7.62 ppbv

RT: 17.01 min Scan# 4951

Delta R.T. -0.02 min

Lab File: VL032205.D

Acq: 5 Jul 2018 15:28

Instrument :

MSVOA_L

ClientSampleId :

VL0705ABS01

Tot Ion: 119 Resp: 5571008

Ion Ratio Lower Upper

119 100

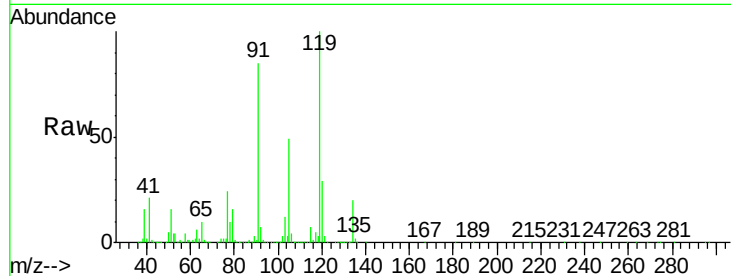
91 86.1 62.2 93.2

134 19.2 16.2 24.2

Manual Integrations
APPROVED

MMDadoda

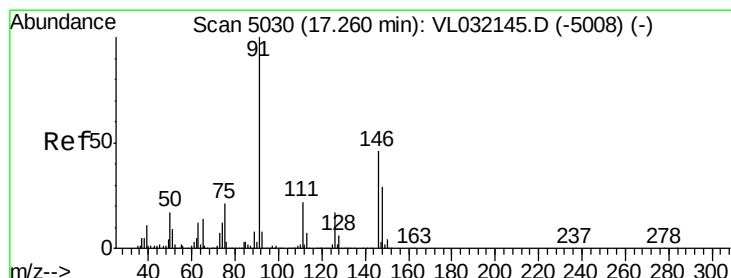
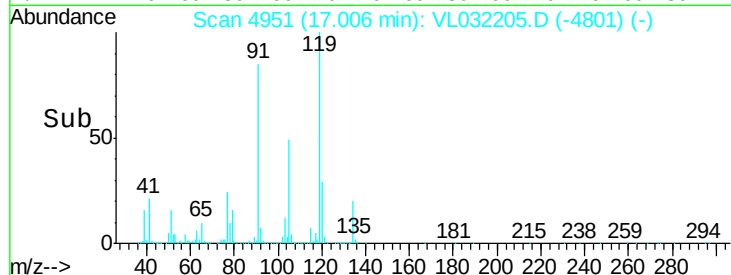
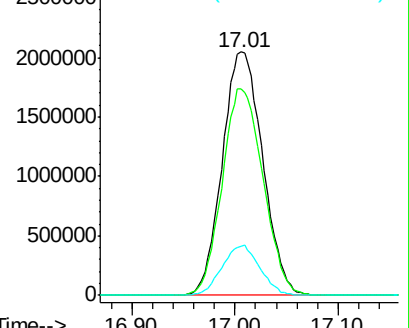
7/9/2018 10:47:31 AM



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: 7.30 ppbv

RT: 17.26 min Scan# 5029

Delta R.T. -0.02 min

Lab File: VL032205.D

Acq: 5 Jul 2018 15:28

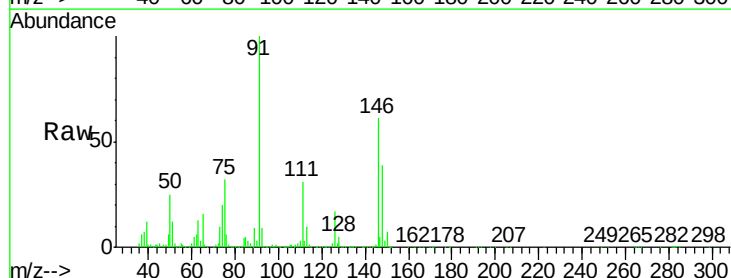
Tgt Ion: 91 Resp: 3294163

Ion Ratio Lower Upper

91 100

126 16.5 15.7 23.5

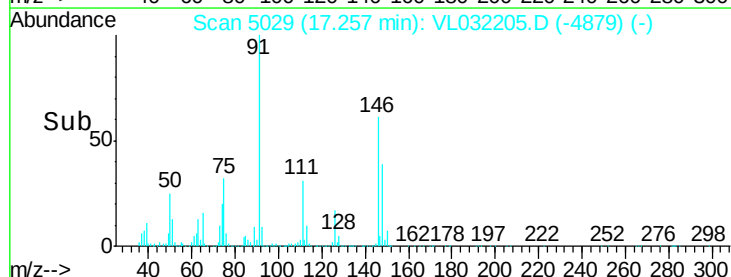
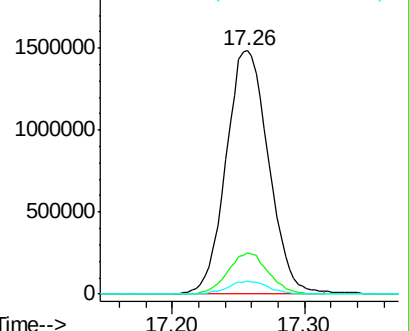
128 5.1 5.2 7.8#

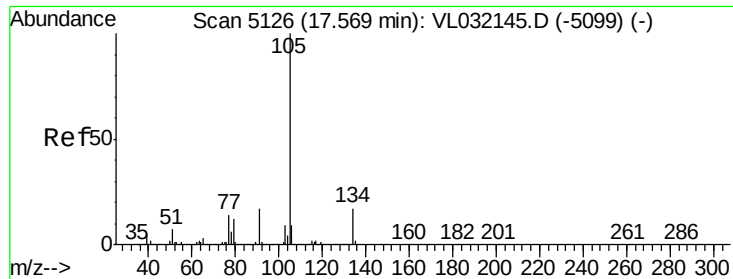


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 7.73 ppbv

RT: 17.56 min Scan# 5122

Delta R.T. -0.02 min

Lab File: VL032205.D

Acq: 5 Jul 2018 15:28

Instrument :

MSVOA_L

ClientSampleId :

VL0705ABS01

Tot Ion:105 Resp: 8274577

Ion Ratio Lower Upper

105 100

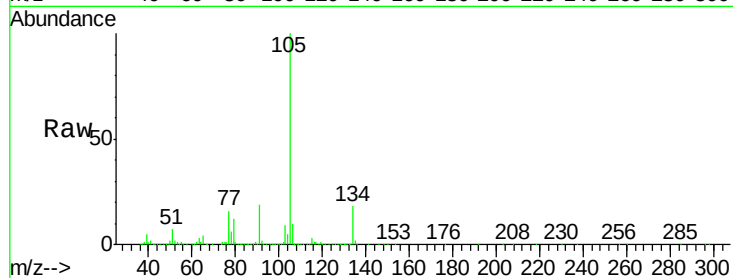
134 17.4 14.7 22.1

Manual Integrations

APPROVED

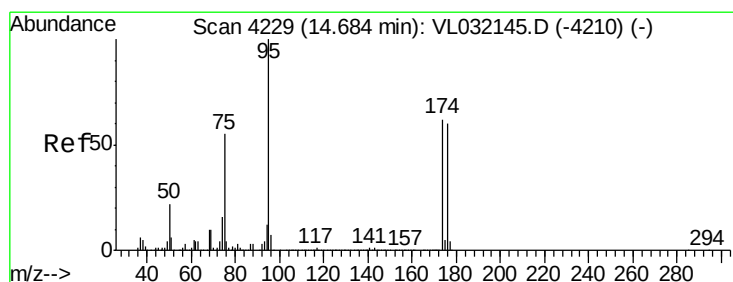
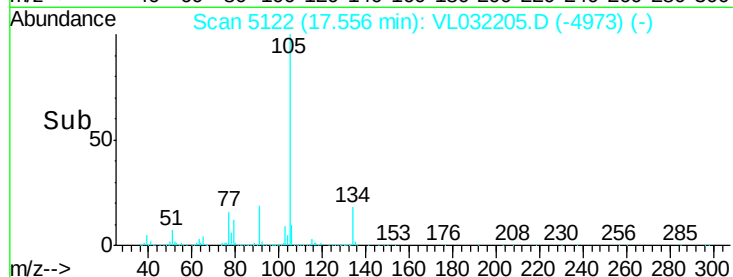
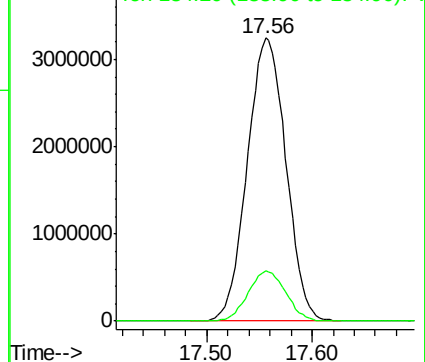
MMDadoda

7/9/2018 10:47:31 AM



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: 9.89 ppbv

RT: 14.68 min Scan# 4227

Delta R.T. -0.02 min

Lab File: VL032205.D

Acq: 5 Jul 2018 15:28

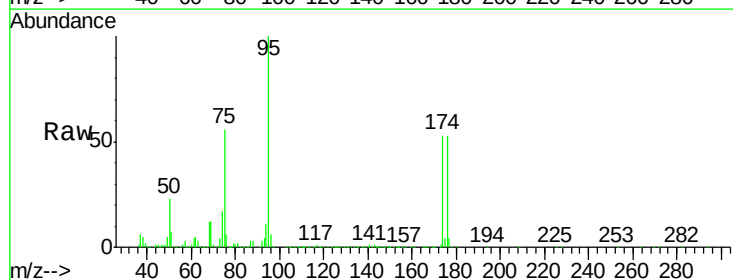
Tgt Ion: 95 Resp: 3175346

Ion Ratio Lower Upper

95 100

174 55.0 52.1 78.1

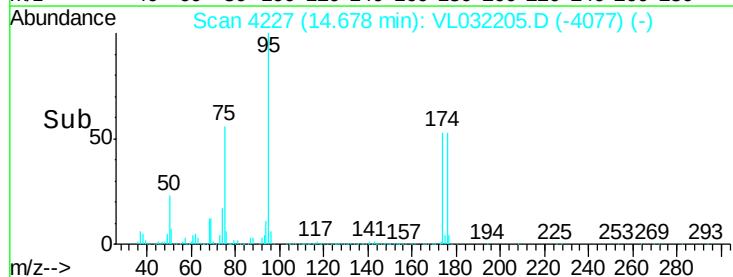
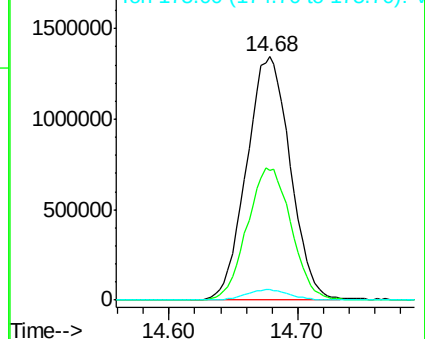
175 4.2 4.0 6.0

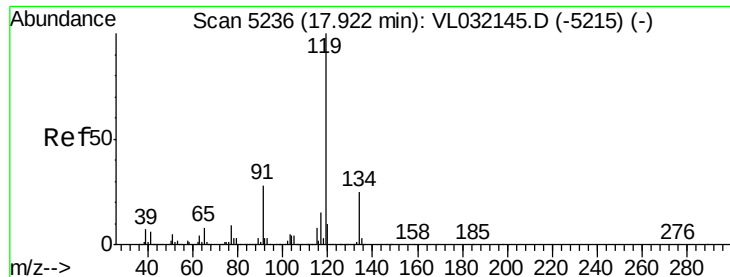


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





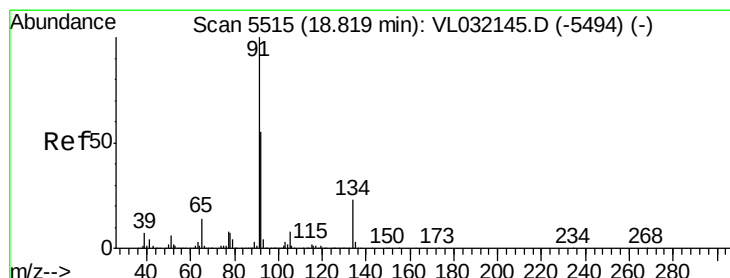
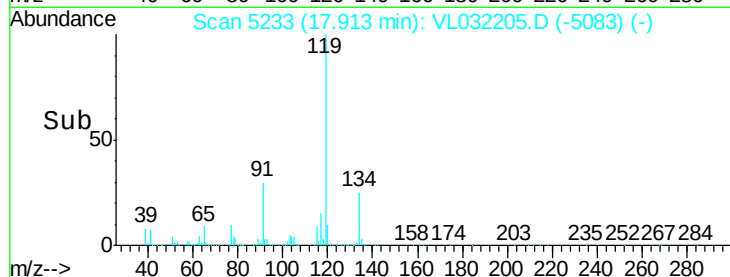
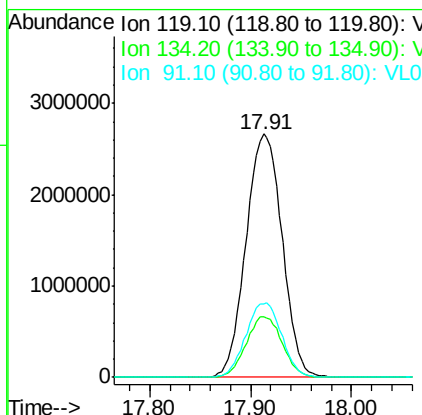
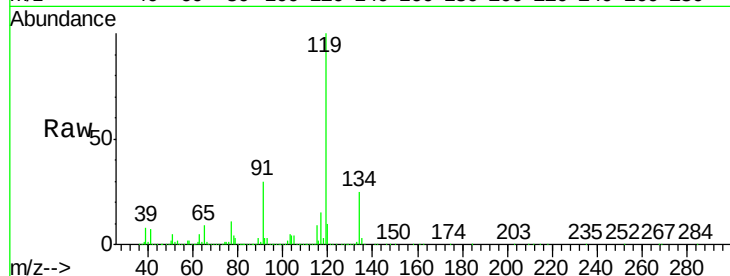
#69
 p-Isopropyltoluene
 Concen: 7.70 ppbv
 RT: 17.91 min Scan# 5236
 Delta R.T. -0.02 min
 Lab File: VL032205.D
 Acq: 5 Jul 2018 15:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0705ABS01

Tot Ion: 119 Resp: 6611775
 Ion Ratio Lower Upper
 119 100
 134 24.8 20.7 31.1
 91 30.5 21.8 32.8

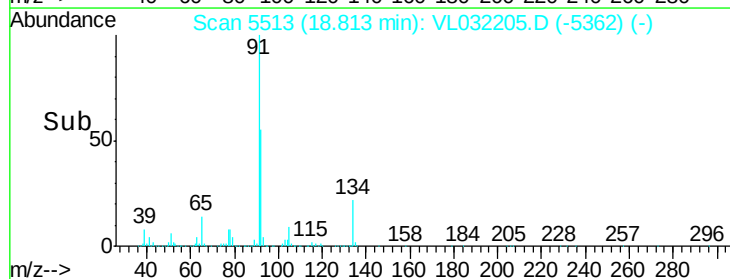
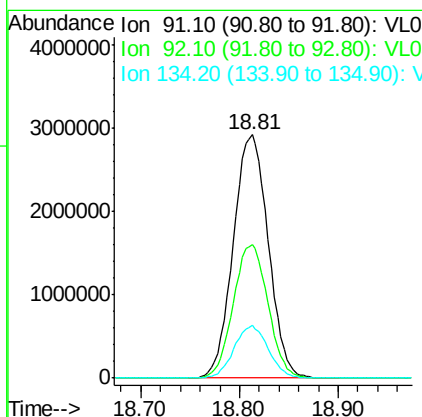
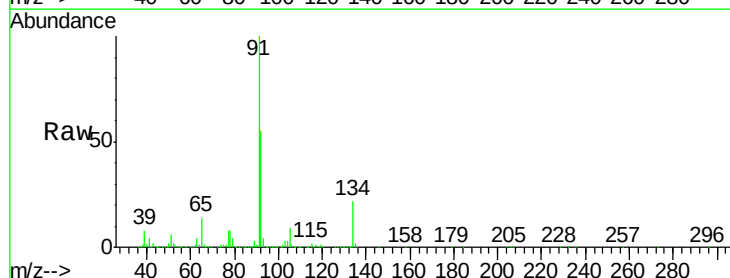
Manual Integrations
 APPROVED

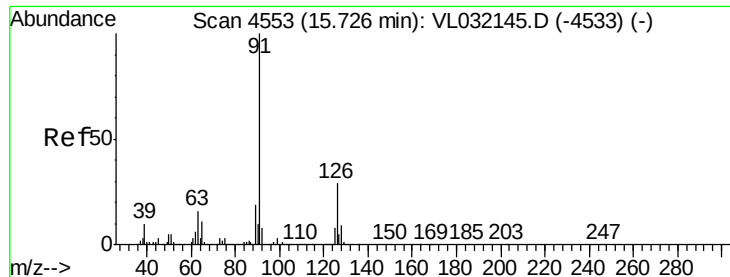
MMDadoda
 7/9/2018 10:47:31 AM



#70
 n-Butylbenzene
 Concen: 7.99 ppbv
 RT: 18.81 min Scan# 5513
 Delta R.T. -0.02 min
 Lab File: VL032205.D
 Acq: 5 Jul 2018 15:28

Tgt Ion: 91 Resp: 7163390
 Ion Ratio Lower Upper
 91 100
 92 54.7 43.7 65.5
 134 21.1 18.9 28.3





#71

2-Chlorotoluene

Concen: 8.49 ppbv

RT: 15.72 min Scan# 4550

Delta R.T. -0.02 min

Lab File: VL032205.D

Acq: 5 Jul 2018 15:28

Instrument :

MSVOA_L

ClientSampleId :

VL0705ABS01

Tot Ion: 91 Resp: 5434126

Ion Ratio Lower Upper

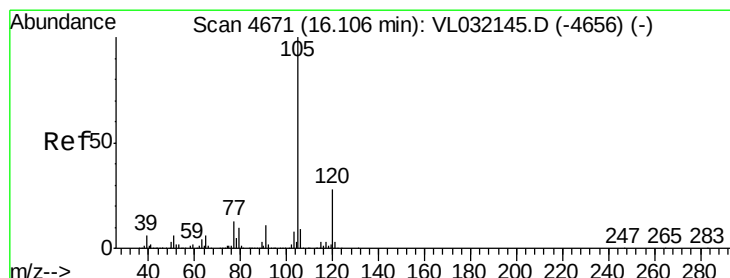
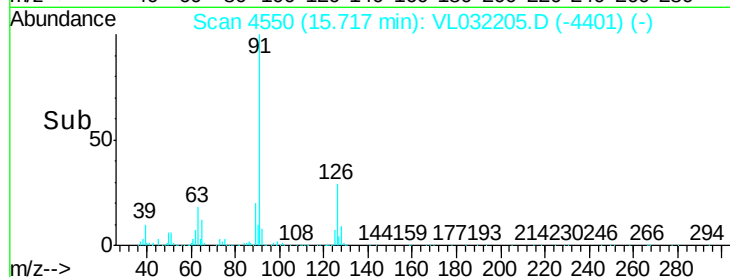
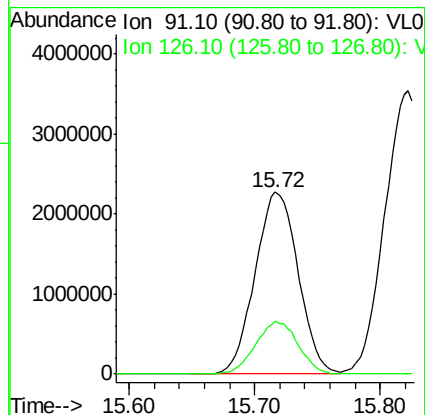
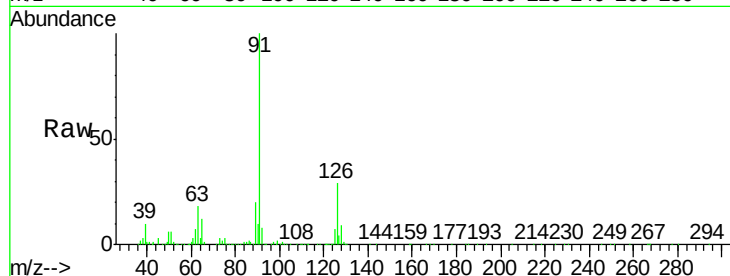
91 100

126 28.8 12.8 51.0

Manual Integrations
APPROVED

MMDadoda

7/9/2018 10:47:31 AM



#72

4-Ethyltoluene

Concen: 8.23 ppbv

RT: 16.10 min Scan# 4669

Delta R.T. -0.02 min

Lab File: VL032205.D

Acq: 5 Jul 2018 15:28

Tgt Ion: 105 Resp: 5748862

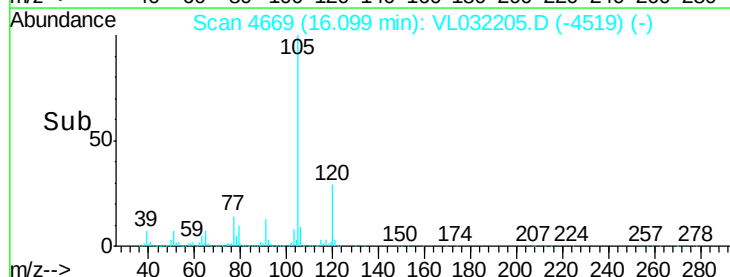
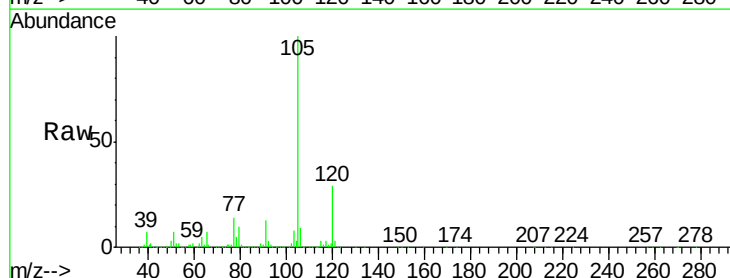
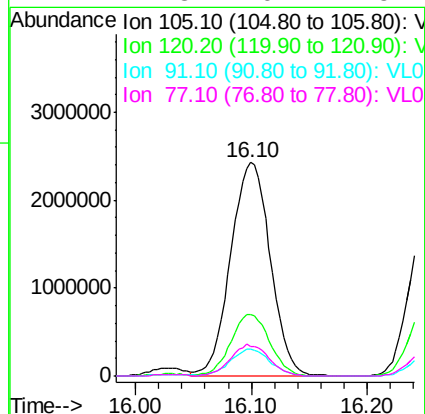
Ion Ratio Lower Upper

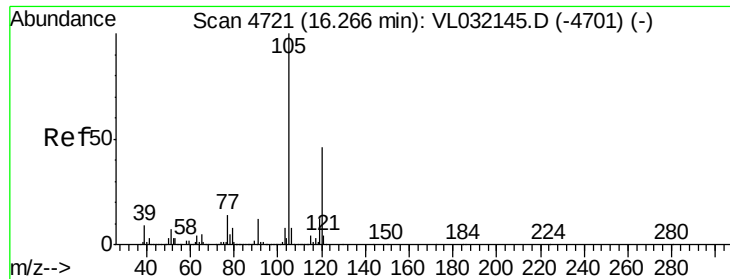
105 100

120 28.6 24.3 36.5

91 12.6 9.4 14.0

77 14.3 10.2 15.2





#73

1,3,5-Trimethylbenzene

Concen: 8.27 ppbv

RT: 16.26 min Scan# 4718

Delta R.T. -0.02 min

Lab File: VL032205.D

Acq: 5 Jul 2018 15:28

Instrument :

MSVOA_L

ClientSampleId :

VL0705ABS01

Tot Ion:105 Resp: 5444031

Ion Ratio Lower Upper

105 100

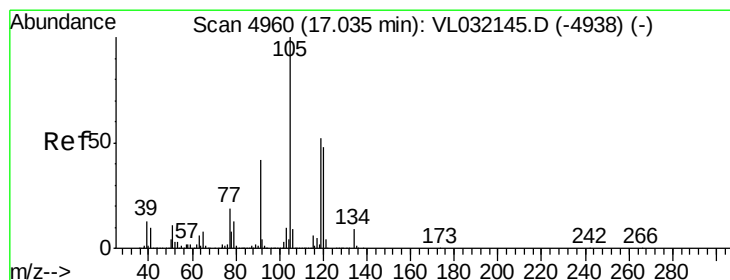
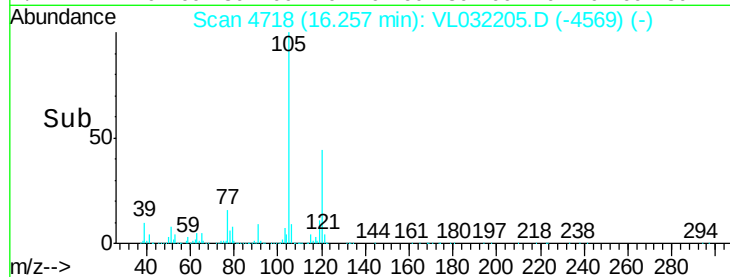
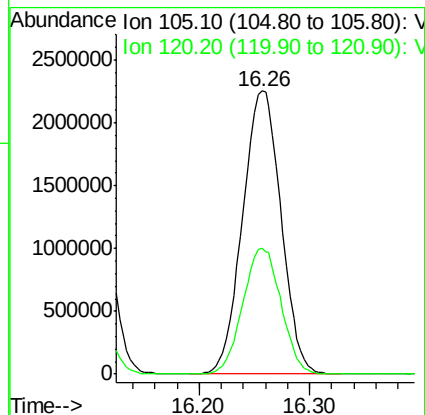
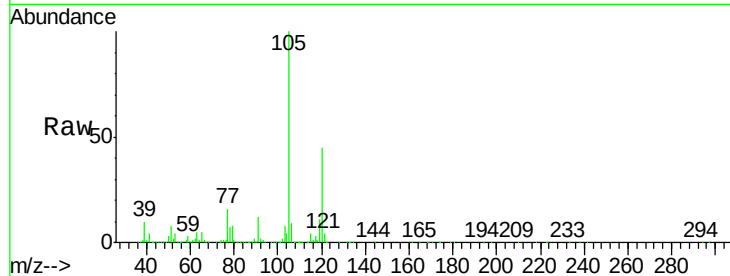
120 44.7 38.6 57.8

Manual Integrations

APPROVED

MMDadoda

7/9/2018 10:47:31 AM



#74

1,2,4-Trimethylbenzene

Concen: 7.87 ppbv

RT: 17.03 min Scan# 4958

Delta R.T. -0.02 min

Lab File: VL032205.D

Acq: 5 Jul 2018 15:28

Tgt Ion:105 Resp: 5228322

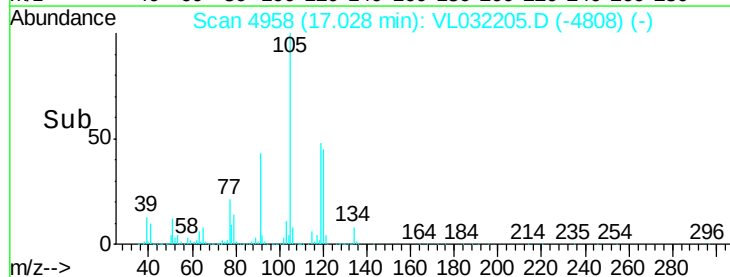
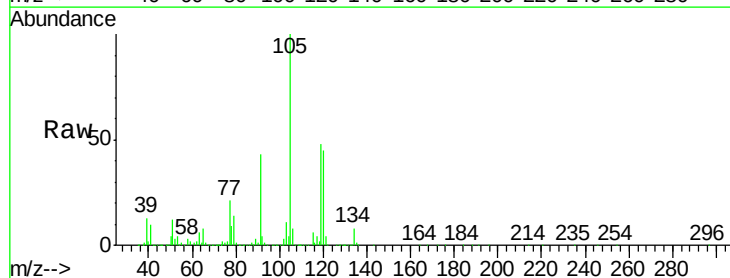
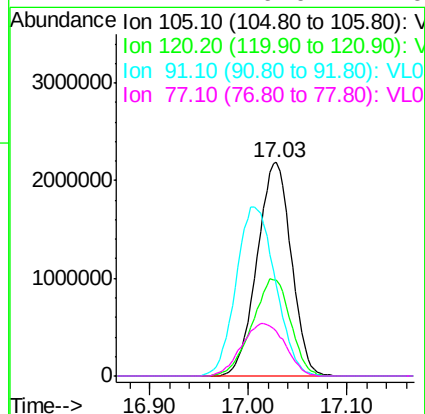
Ion Ratio Lower Upper

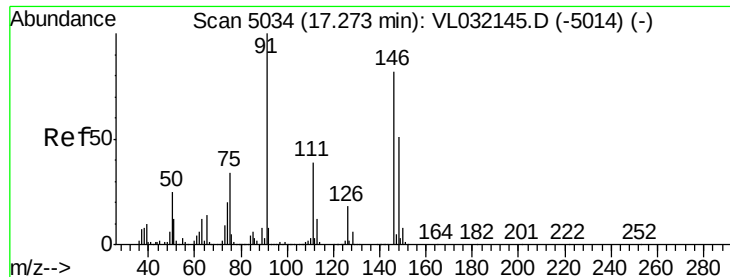
105 100

120 44.8 38.8 58.2

91 42.7 33.6 50.4

77 21.2 16.0 24.0





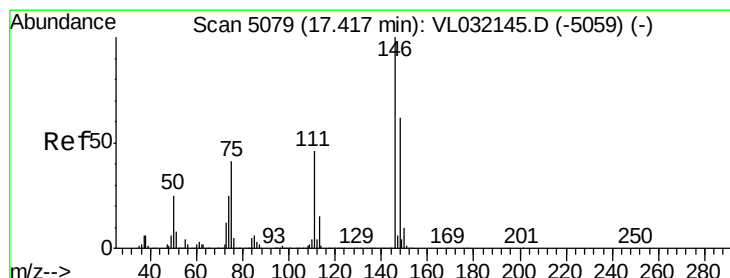
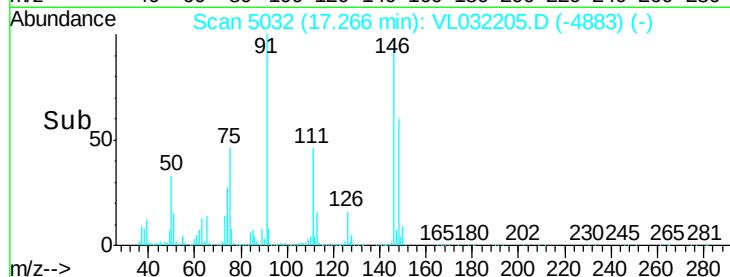
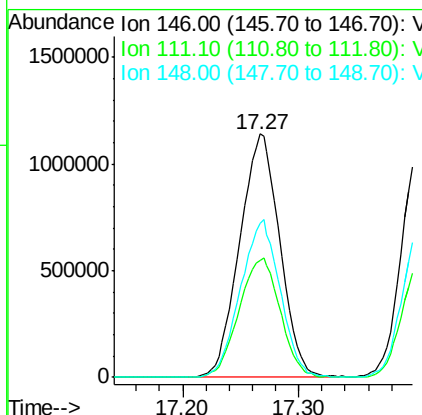
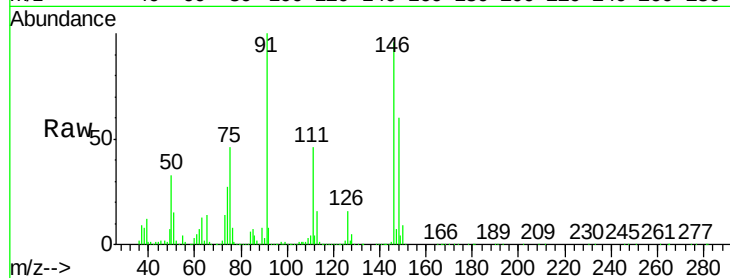
#75
 1,3-Dichlorobenzene
 Concen: 7.24 ppbv
 RT: 17.27 min Scan# 5032
 Delta R.T. -0.02 min
 Lab File: VL032205.D
 Acq: 5 Jul 2018 15:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0705ABS01

Tot Ion:146 Resp: 2735795
 Ion Ratio Lower Upper
 146 100
 111 50.4 22.9 68.8
 148 64.0 31.7 95.1

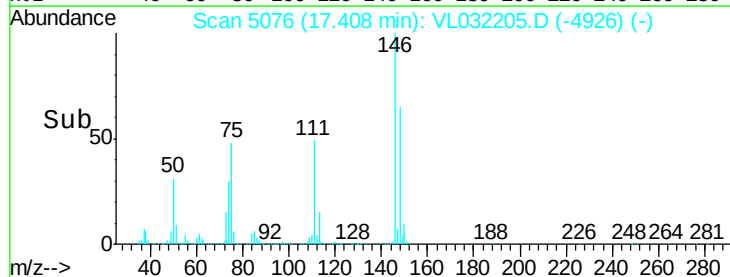
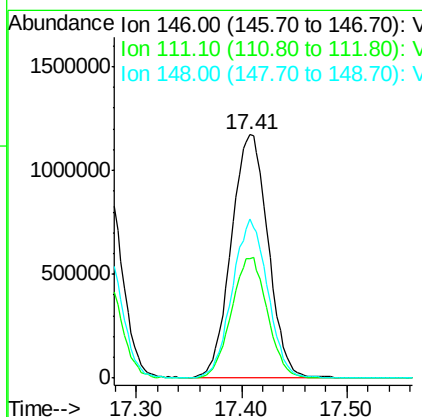
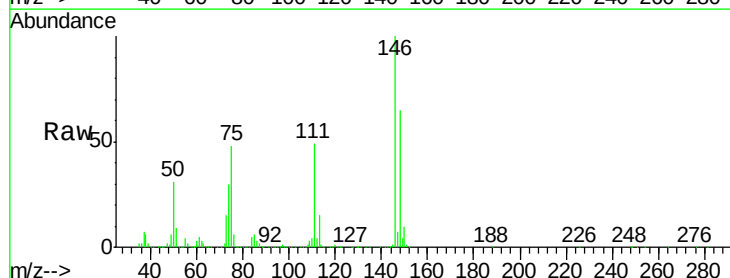
Manual Integrations
 APPROVED

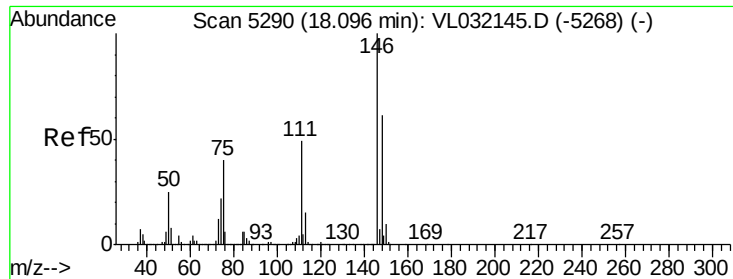
MMDadoda
 7/9/2018 10:47:31 AM



#76
 1,4-Dichlorobenzene
 Concen: 7.38 ppbv
 RT: 17.41 min Scan# 5076
 Delta R.T. -0.02 min
 Lab File: VL032205.D
 Acq: 5 Jul 2018 15:28

Tgt Ion:146 Resp: 2827258
 Ion Ratio Lower Upper
 146 100
 111 48.6 21.9 65.8
 148 63.3 32.1 96.5





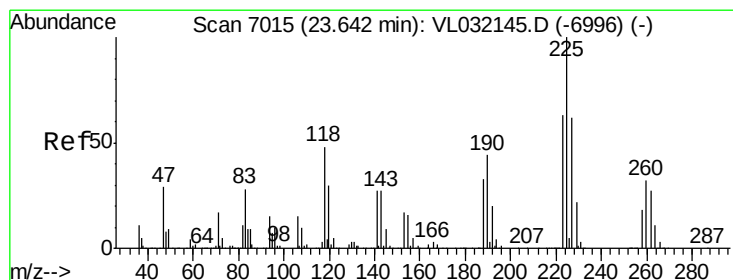
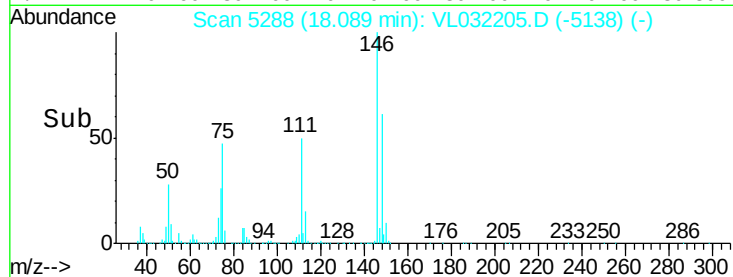
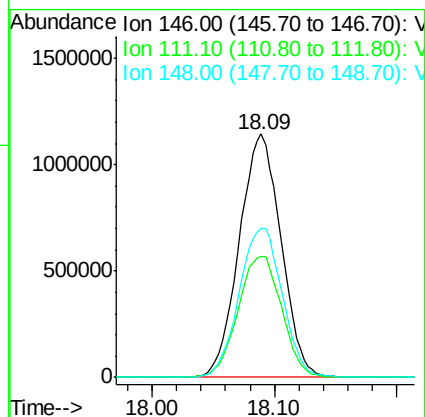
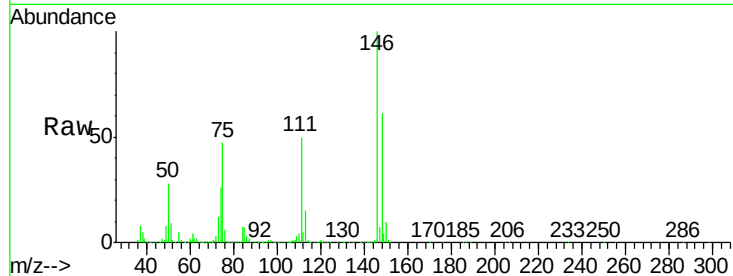
#77
 1,2-Dichlorobenzene
 Concen: 7.15 ppbv
 RT: 18.09 min Scan# 5288
 Delta R.T. -0.02 min
 Lab File: VL032205.D
 Acq: 5 Jul 2018 15:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0705ABS01

Tot Ion:146 Resp: 2699349
 Ion Ratio Lower Upper
 146 100
 111 52.3 23.4 70.3
 148 63.9 32.0 96.0

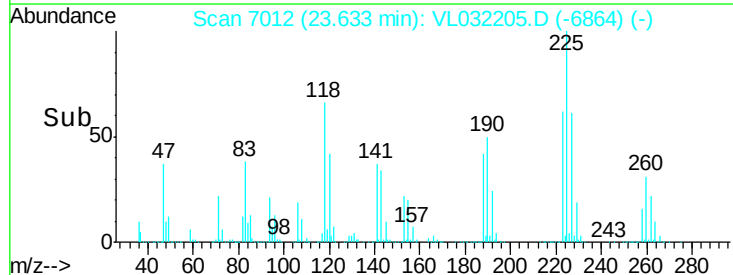
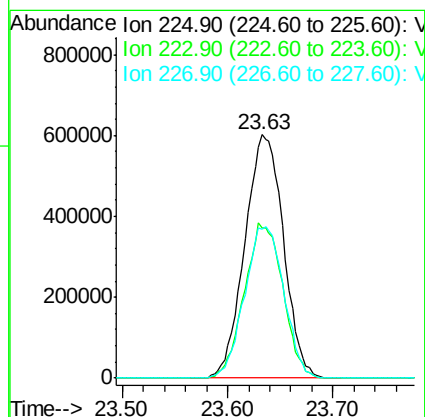
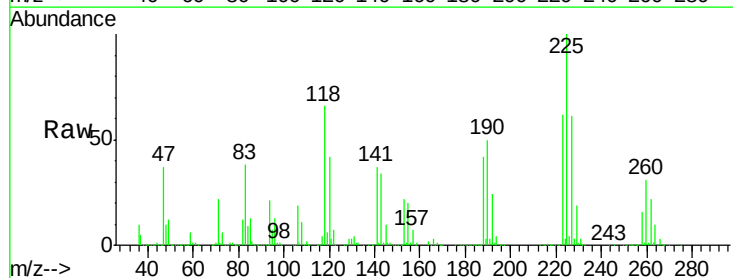
Manual Integrations
 APPROVED

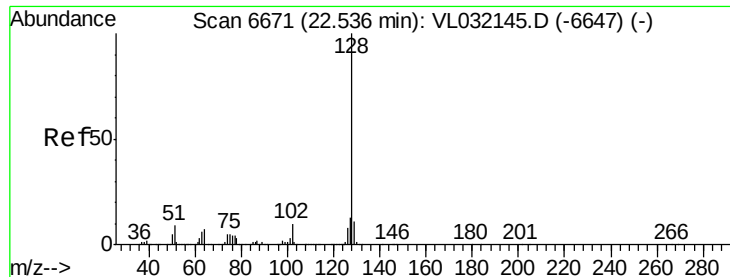
MMDadoda
 7/9/2018 10:47:31 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 11.67 ppbv
 RT: 23.63 min Scan# 7012
 Delta R.T. -0.03 min
 Lab File: VL032205.D
 Acq: 5 Jul 2018 15:28

Tgt Ion:225 Resp: 1534239
 Ion Ratio Lower Upper
 225 100
 223 63.4 51.0 76.4
 227 63.3 51.4 77.0





#79

Naphthalene

Concen: 6.99 ppbv

RT: 22.53 min Scan# 6668

Delta R.T. -0.03 min

Lab File: VL032205.D

Acq: 5 Jul 2018 15:28

Instrument :

MSVOA_L

ClientSampleId :

VL0705ABS01

Tot Ion:128 Resp: 4218946

Ion Ratio Lower Upper

128 100

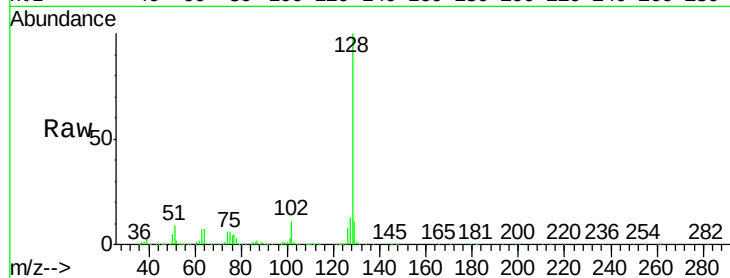
127 13.2 10.5 15.7

129 11.1 9.0 13.6

Manual Integrations
APPROVED

MMDadoda

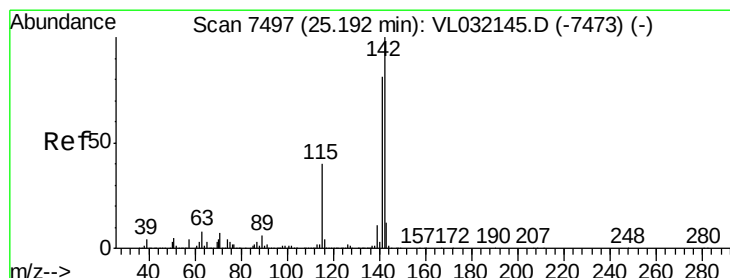
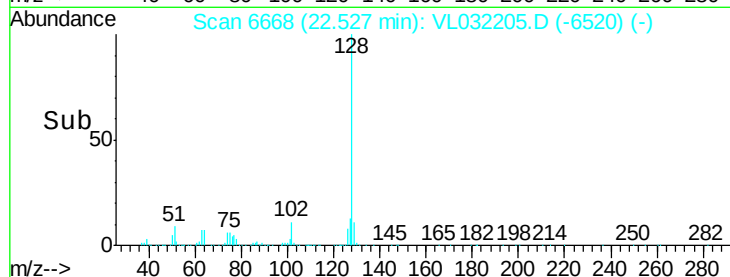
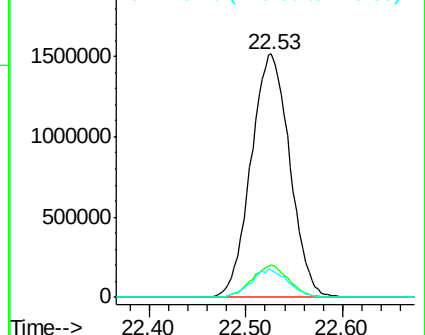
7/9/2018 10:47:31 AM



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: 10.22 ppbv

RT: 25.19 min Scan# 7496

Delta R.T. -0.02 min

Lab File: VL032205.D

Acq: 5 Jul 2018 15:28

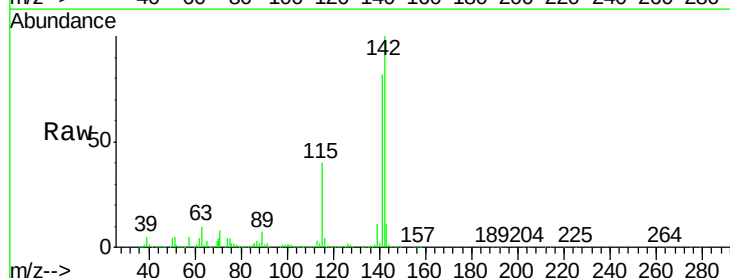
Tgt Ion:142 Resp: 2227697

Ion Ratio Lower Upper

142 100

141 83.5 65.8 98.6

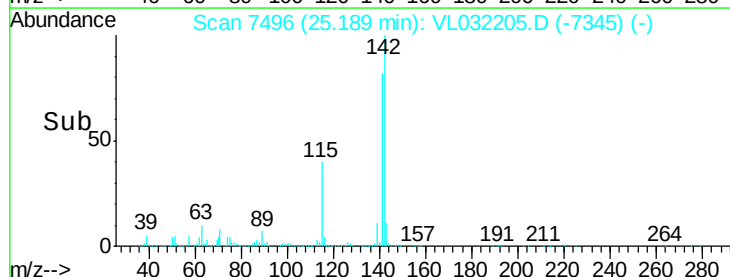
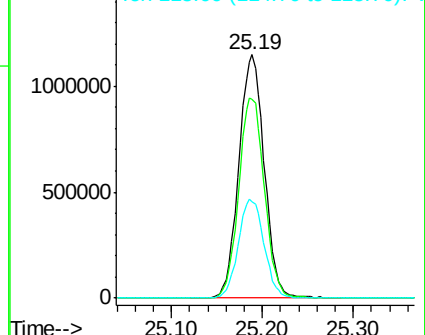
115 41.4 29.4 44.0

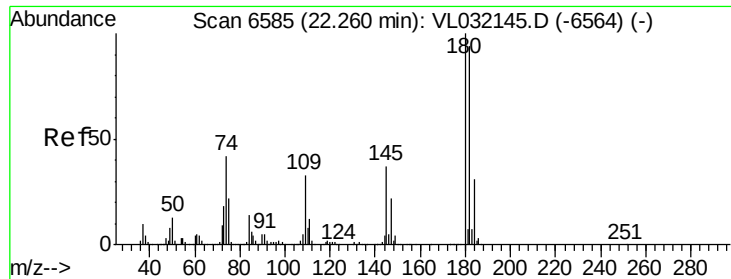


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 7.22 ppbv m
 RT: 22.25 min Scan# 6583
 Delta R.T. -0.02 min
 Lab File: VL032205.D
 Acq: 5 Jul 2018 15:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0705ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	76.2	114.4#
184	0.0	24.4	36.6#

Manual Integrations
 APPROVED

MMDadoda
 7/9/2018 10:47:31 AM

