

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041019\
 Data File : VL033565.D
 Acq On : 10 Apr 2019 15:25
 Operator : SY/AP
 Sample : VL0410ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0410ABS01

Manual Integrations
 APPROVED

MMDadoda
 4/11/2019 1:01:05 PM

Quant Time: Apr 11 03:59:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 2
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	956817	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2489056	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2631497m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1922807	9.32	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.20%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.08	85	1175629	8.425	ppbv 99
3) Chlorodifluoromethane	3.01	51	919233	8.345	ppbv 98
4) Chloromethane	3.17	50	497210	8.530	ppbv 97
5) Vinyl Chloride	3.29	62	496261	8.665	ppbv 100
6) Bromomethane	3.52	94	324099	8.806	ppbv 95
7) Chloroethane	3.60	64	185273	8.692	ppbv 98
8) Dichlorotetrafluoroethane	3.22	85	1234235	8.300	ppbv 98
9) Propene	3.04	41	411301	8.891	ppbv 99
10) Heptane	8.25	43	1066492	8.625	ppbv 99
11) Trichlorofluoromethane	4.00	101	1395798	8.116	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	967412	8.375	ppbv 97
13) Ethanol	3.65	45	105790	8.837	ppbv 65
14) Bromoethene	3.79	108	405924	8.811	ppbv 98
15) Acetone	3.90	43	911665	7.924	ppbv 98
16) 1,3-Butadiene	3.36	39	419764	9.199	ppbv 88
17) tert-Butyl alcohol	4.36	59	177578	8.395	ppbv 98
18) 1,1-Dichloroethene	4.35	96	437946	8.826	ppbv 97
19) Isopropyl Alcohol	4.02	45	598718	8.228	ppbv 100
20) Methylene Chloride	4.41	84	380331	7.788	ppbv 92
21) Allyl Chloride	4.48	41	652089	8.966	ppbv 100
22) trans-1,2-Dichloroethene	4.96	96	453421	8.759	ppbv 97
23) Vinyl Acetate	5.16	43	1498805	9.153	ppbv 98
24) 1,1-Dichloroethane	5.09	63	1032730	8.303	ppbv 98
25) Ethyl Acetate	5.77	43	1740940	8.156	ppbv 99
26) Hexane	5.78	57	794160	8.368	ppbv 97
27) Carbon Disulfide	4.62	76	1105118	9.792	ppbv 99
28) Methyl tert-Butyl Ether	5.11	73	1275984	9.334	ppbv 99
29) Chloroform	5.85	83	1349558	8.295	ppbv 100
30) Cyclohexane	7.25	84	707775	9.427	ppbv 98
31) cis-1,2-Dichloroethene	5.64	61	827695	8.772	ppbv 97
32) 1,1,1-Trichloroethane	6.62	97	1349545	8.711	ppbv 99
34) 2-Butanone	5.33	43	1154567	7.721	ppbv 98
35) Carbon Tetrachloride	7.14	117	1456984	8.264	ppbv 100
36) Benzene	7.01	78	1751055	8.384	ppbv 97
37) 1,2-Dichloroethane	6.42	62	1023854	7.314	ppbv 99
38) Trichloroethene	7.96	130	689811	8.776	ppbv 99
39) 1,2-Dichloropropane	7.74	63	655657	8.014	ppbv 96
40) 1,4-Dioxane	7.96	88	237040	8.124	ppbv 95
41) Tetrahydrofuran	6.15	42	683302	8.307	ppbv 97
42) Bromodichloromethane	7.92	83	1490917	7.820	ppbv 99
43) Methyl Methacrylate	8.14	69	712168	8.398	ppbv 98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041019\
 Data File : VL033565.D
 Acq On : 10 Apr 2019 15:25
 Operator : SY/AP
 Sample : VL0410ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0410ABS01

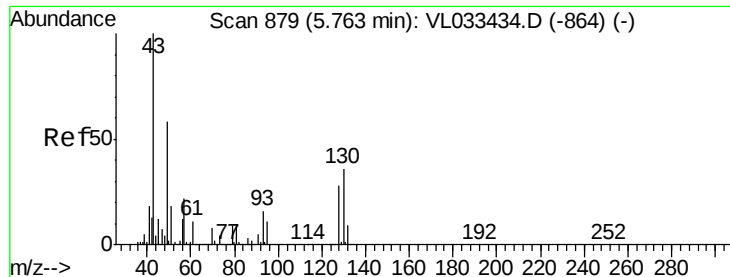
Manual Integrations
 APPROVED

MMDadoda
 4/11/2019 1:01:05 PM

Quant Time: Apr 11 03:59:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 2
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	2818334	7.722	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	967158	9.289	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	1079955	8.882	ppbv	96
47) 1,1,2-Trichloroethane	9.62	97	717564	7.724	ppbv	97
48) Dibromochloromethane	10.45	129	1304371	8.324	ppbv	100
49) Bromoform	13.21	173	1197459	7.999	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	1714163	7.828	ppbv	98
51) 2-Hexanone	10.27	43	1390149	8.511	ppbv	98
52) Tetrachloroethene	11.38	164	668190	8.480	ppbv	98
53) Toluene	9.95	91	2108843	8.689	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1161514	7.993	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.28	131	917762	7.610	ppbv #	54
57) Chlorobenzene	12.30	112	1561697	7.643	ppbv	95
58) Ethyl Benzene	12.87	91	2862457	8.145	ppbv	99
59) m/p-Xylene	13.15	91	4797791m	15.285	ppbv	
60) o-Xylene	13.85	91	2349502	7.741	ppbv	98
61) Styrene	13.69	104	1788071	8.583	ppbv	98
62) Isopropylbenzene	14.83	105	3326648	7.739	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	1626800	7.279	ppbv	99
64) n-propylbenzene	15.72	120	875929	8.031	ppbv	95
65) tert-Butylbenzene	16.91	119	2990459	7.895	ppbv	97
66) Benzyl Chloride	17.16	91	1717830	9.754	ppbv	99
67) sec-Butylbenzene	17.46	105	4222457	7.839	ppbv	100
69) p-Isopropyltoluene	17.82	119	3532515	8.055	ppbv	99
70) n-Butylbenzene	18.72	91	3640865	7.835	ppbv	99
71) 2-Chlorotoluene	15.62	91	2600330	7.956	ppbv	99
72) 4-Ethyltoluene	16.00	105	2803156	8.216	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	2663091	8.156	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	2730922	7.804	ppbv	97
75) 1,3-Dichlorobenzene	17.17	146	1640014	7.582	ppbv	98
76) 1,4-Dichlorobenzene	17.31	146	1624579	7.709	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	1597742	7.785	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	1191852	8.773	ppbv	99
79) Naphthalene	22.42	128	2735548	9.132	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	1246815	12.402	ppbv	98
81) 1,2,4-Trichlorobenzene	22.14	180	1415710	8.520	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.00 min

Lab File: VL033565.D

Acq: 10 Apr 2019 15:25

Instrument :

MSVOA_L

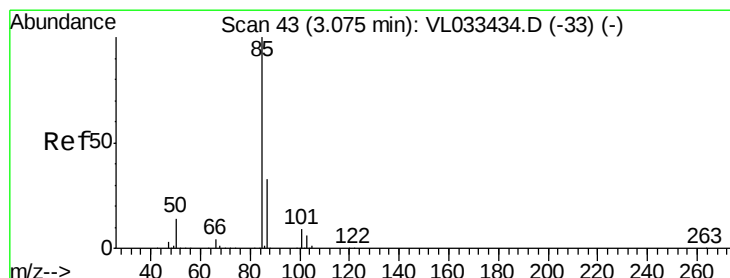
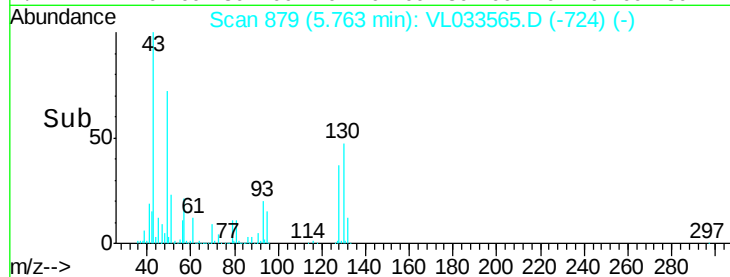
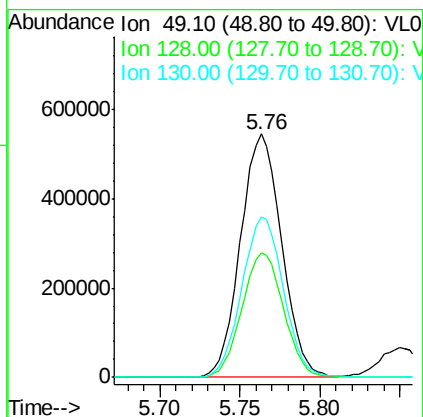
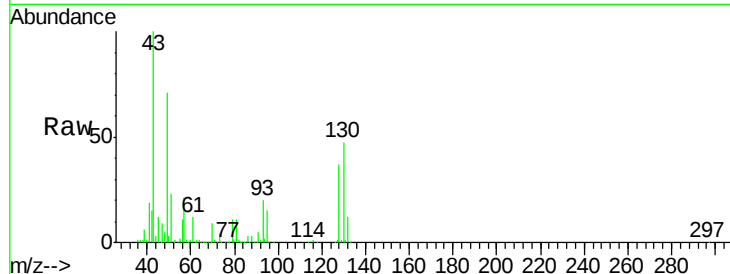
ClientSampleId :

VL0410ABS01

Tot Ion:	49	Resp:	956817
Ion	Ratio	Lower	Upper
49	100		
128	51.8	24.0	72.0
130	66.8	31.2	93.6

Manual Integrations
APPROVED

MMDadoda
4/11/2019 1:01:05 PM



#2

Dichlorodifluoromethane

Concen: 8.425 ppbv

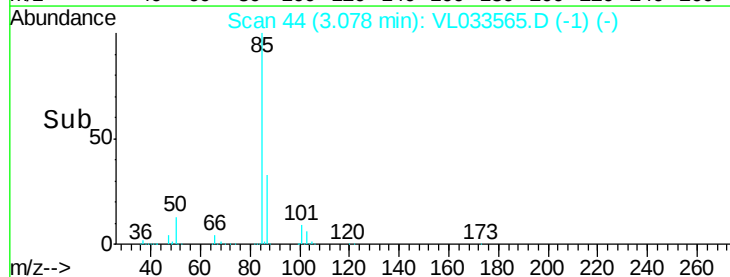
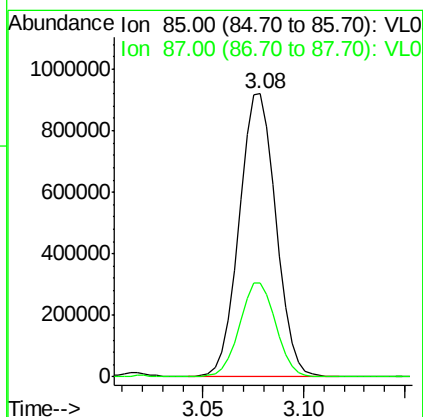
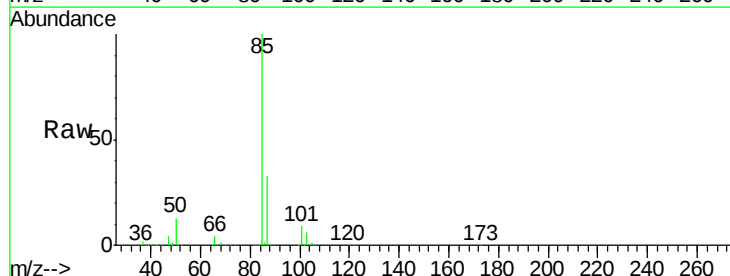
RT: 3.08 min Scan# 44

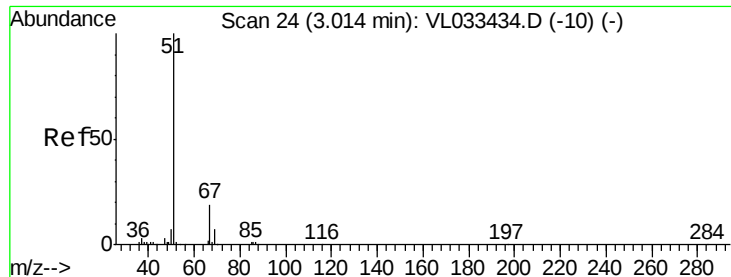
Delta R.T. 0.00 min

Lab File: VL033565.D

Acq: 10 Apr 2019 15:25

Tgt Ion:	85	Resp:	1175629
Ion	Ratio	Lower	Upper
85	100		
87	33.0	26.7	40.1





#3

Chlorodifluoromethane

Concen: 8.345 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033565.D

Acq: 10 Apr 2019 15:25

Tot Ion: 51 Resp: 919233

Ion Ratio Lower Upper

51 100

67 18.5 15.7 23.5

Instrument :

MSVOA_L

ClientSampleId :

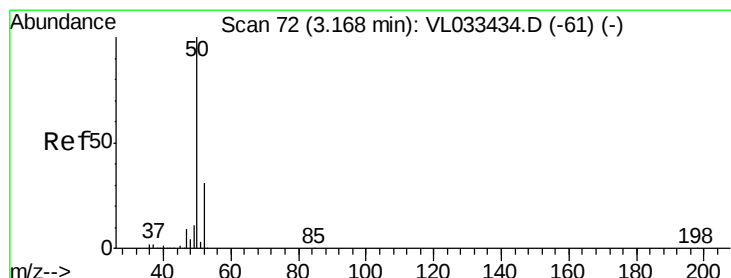
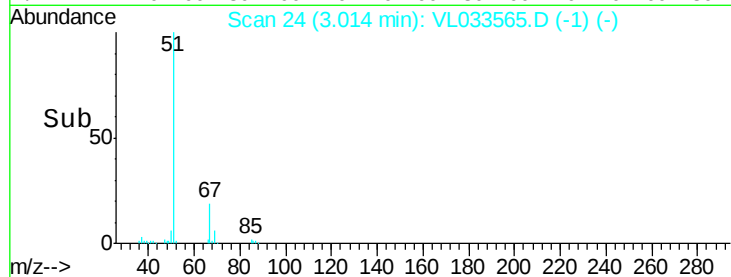
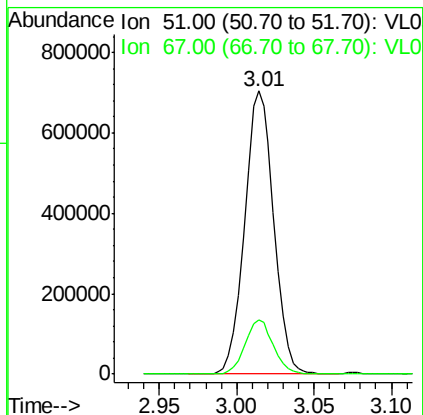
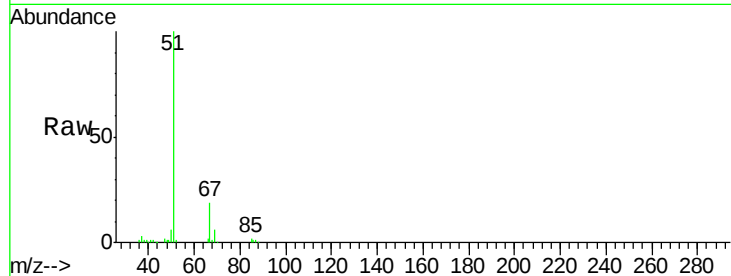
VL0410ABS01

Manual Integrations

APPROVED

MMDadoda

4/11/2019 1:01:05 PM



#4

Chloromethane

Concen: 8.530 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033565.D

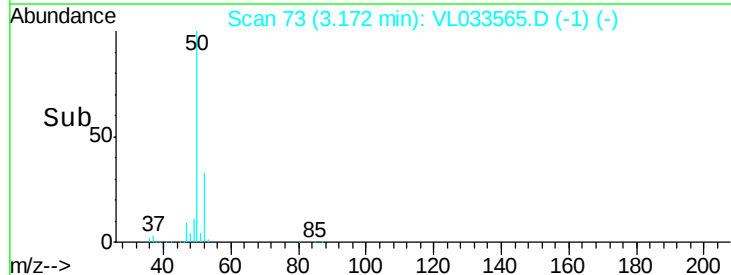
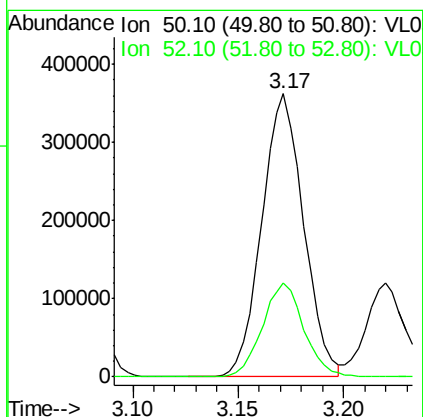
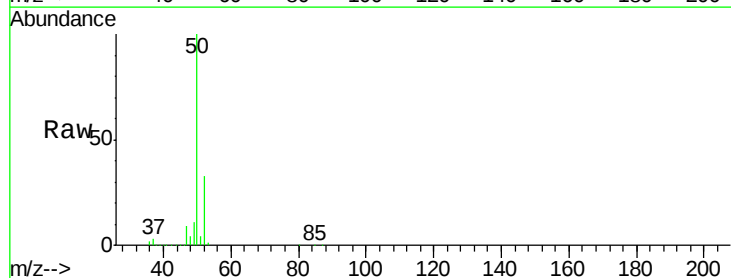
Acq: 10 Apr 2019 15:25

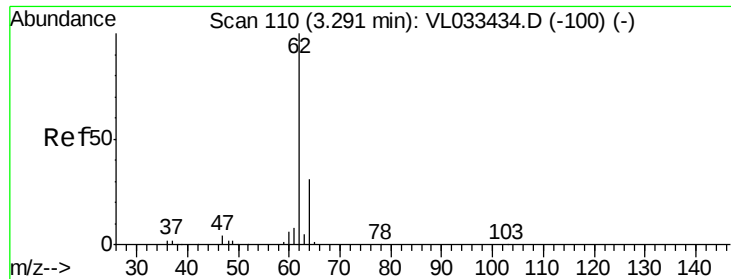
Tgt Ion: 50 Resp: 497210

Ion Ratio Lower Upper

50 100

52 33.2 25.0 37.6





#5

Vinyl Chloride

Concen: 8.665 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033565.D

Acq: 10 Apr 2019 15:25

Instrument :

MSVOA_L

ClientSampleId :

VL0410ABS01

Tot Ion: 62 Resp: 496261

Ion Ratio Lower Upper

62 100

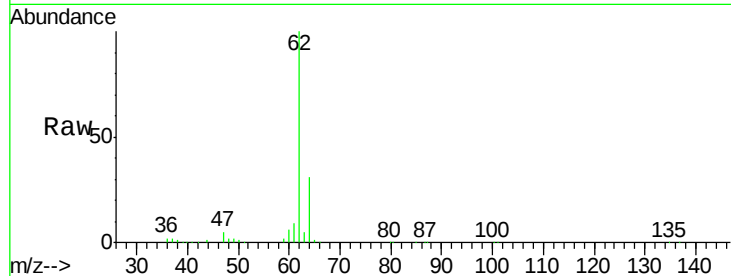
64 30.9 24.9 37.3

Manual Integrations

APPROVED

MMDadoda

4/11/2019 1:01:05 PM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.29

400000

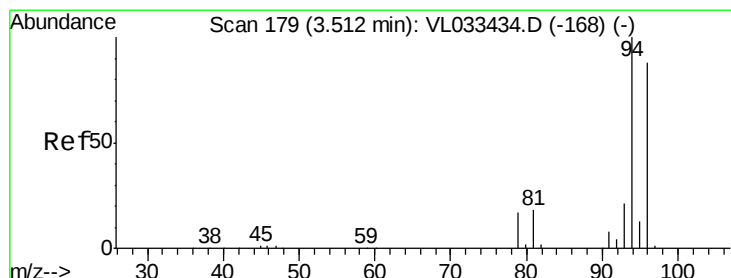
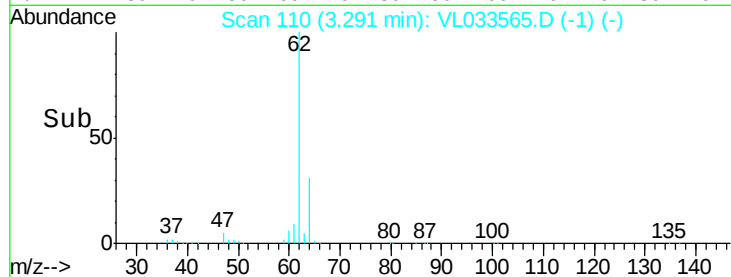
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 8.806 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033565.D

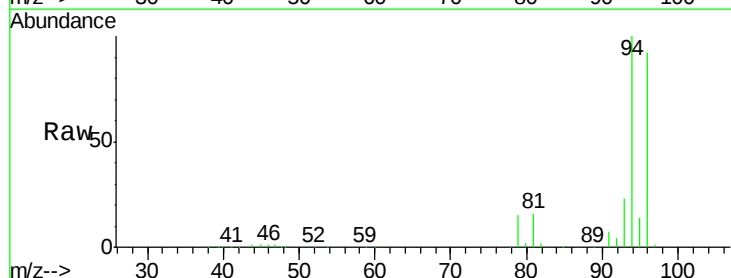
Acq: 10 Apr 2019 15:25

Tgt Ion: 94 Resp: 324099

Ion Ratio Lower Upper

94 100

96 92.1 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.52

250000

200000

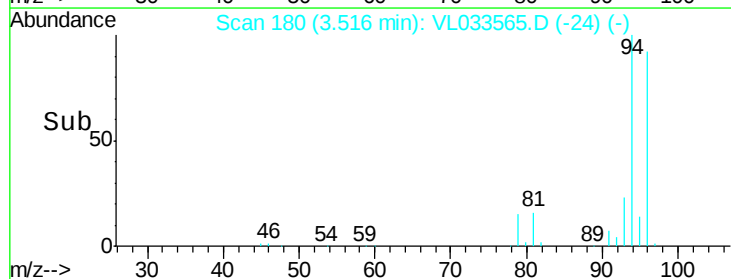
150000

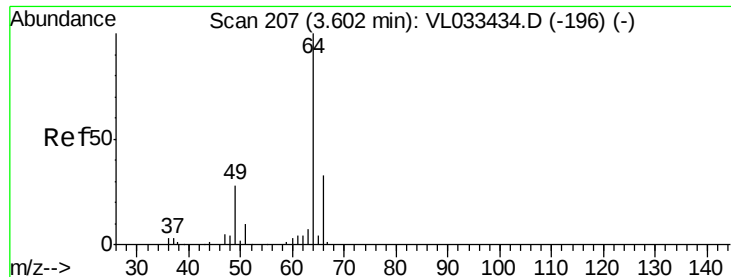
100000

50000

0

Time-->





#7

Chloroethane

Concen: 8.692 ppbv

RT: 3.60 min Scan# 207

Delta R.T. -0.00 min

Lab File: VL033565.D

Acq: 10 Apr 2019 15:25

Instrument :

MSVOA_L

ClientSampleId :

VL0410ABS01

Tot Ion: 64 Resp: 185273

Ion Ratio Lower Upper

64 100

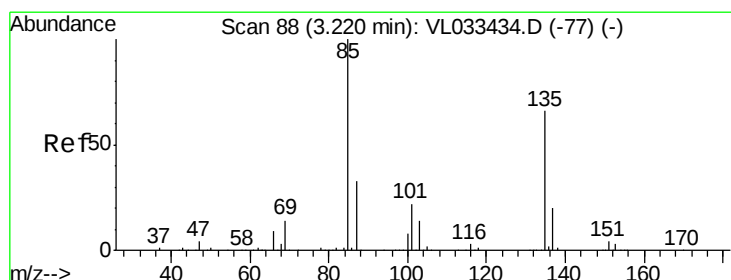
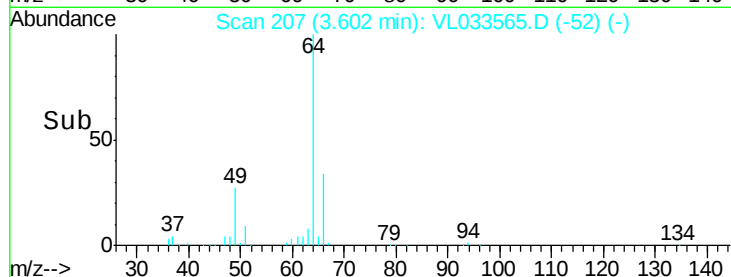
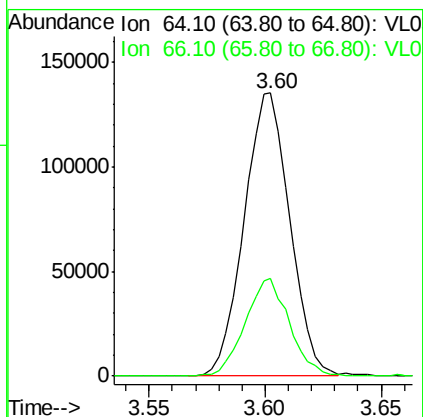
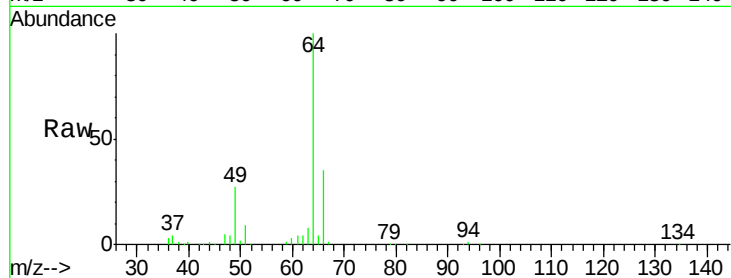
66 34.5 26.7 40.1

Manual Integrations

APPROVED

MMDadoda

4/11/2019 1:01:05 PM



#8

Dichlorotetrafluoroethane

Concen: 8.300 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033565.D

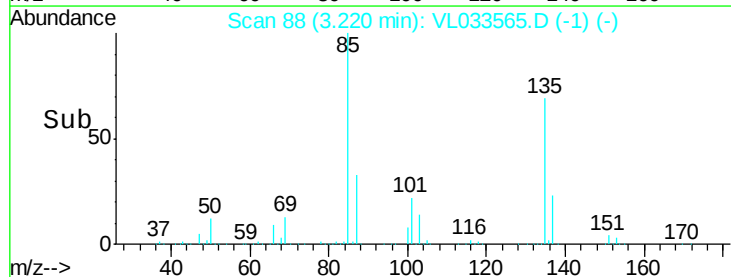
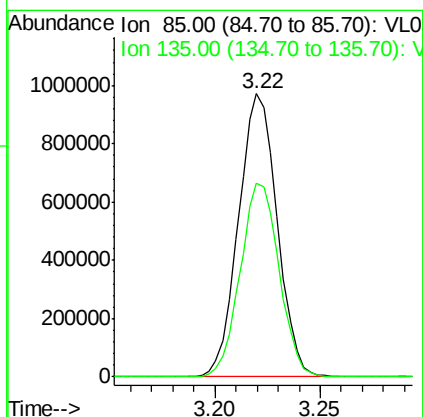
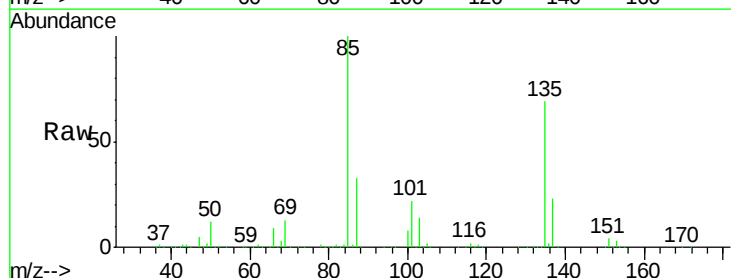
Acq: 10 Apr 2019 15:25

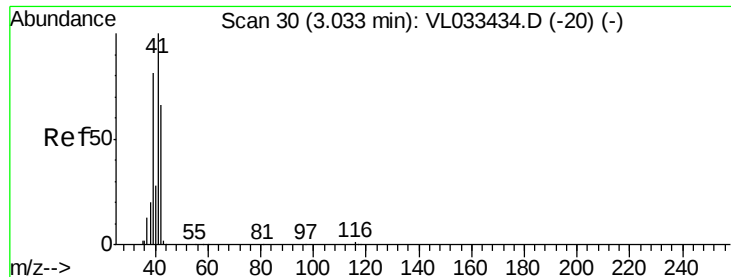
Tgt Ion: 85 Resp: 1234235

Ion Ratio Lower Upper

85 100

135 69.4 54.0 81.0





#9

Propene

Concen: 8.891 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033565.D

Acq: 10 Apr 2019 15:25

Instrument :

MSVOA_L

ClientSampleId :

VL0410ABS01

Tot Ion: 41 Resp: 411301

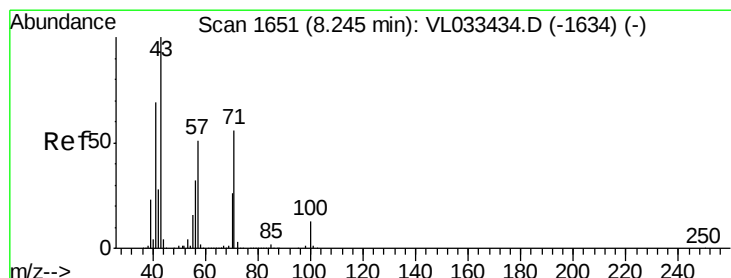
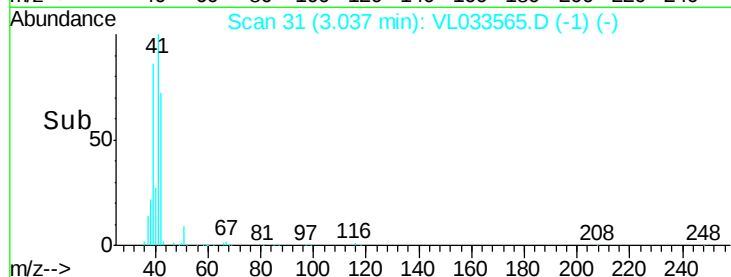
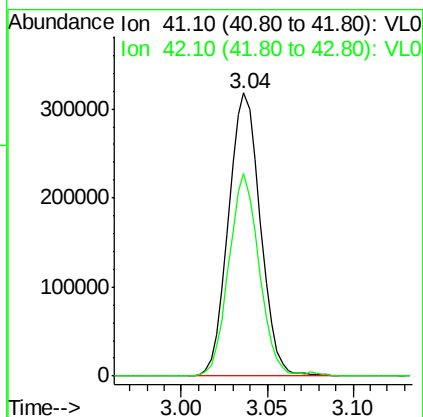
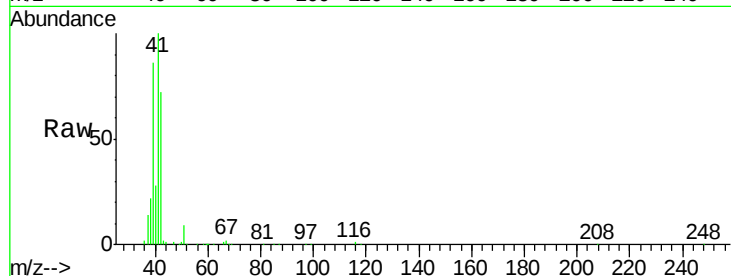
Ion Ratio Lower Upper

41 100

42 68.4 53.9 80.9

Manual Integrations
APPROVED

MMDadoda
4/11/2019 1:01:05 PM



#10

Heptane

Concen: 8.625 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.00 min

Lab File: VL033565.D

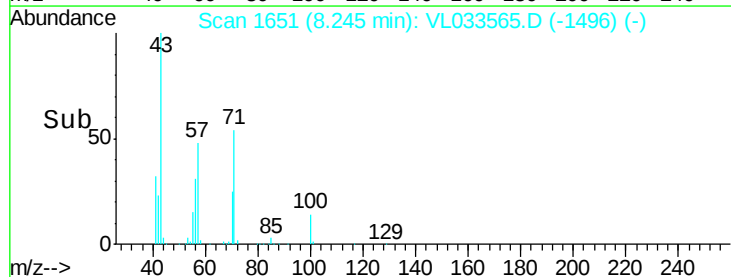
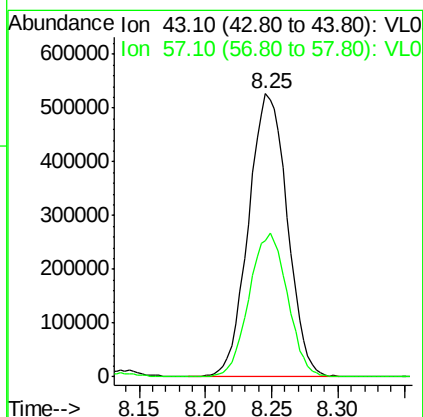
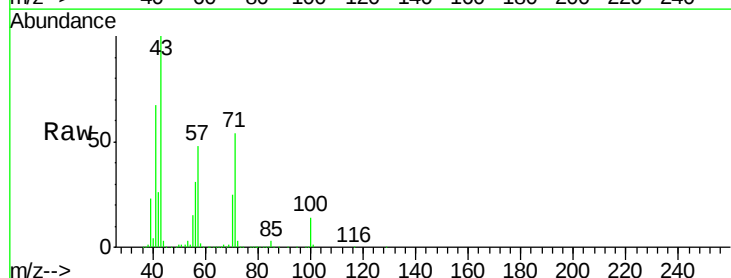
Acq: 10 Apr 2019 15:25

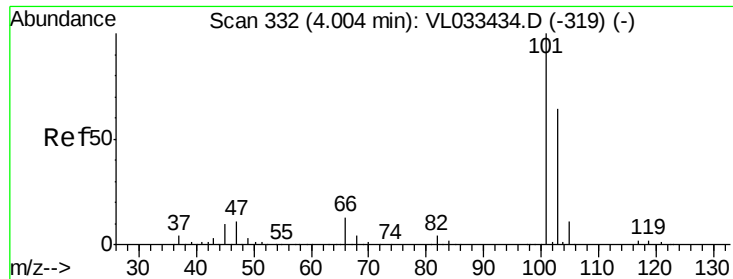
Tgt Ion: 43 Resp: 1066492

Ion Ratio Lower Upper

43 100

57 50.3 40.6 60.8





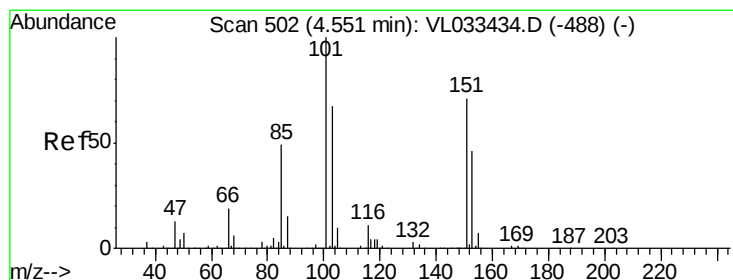
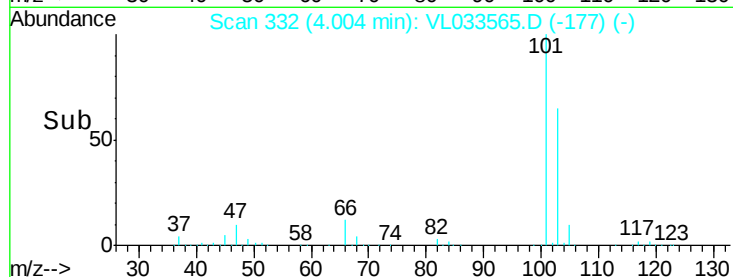
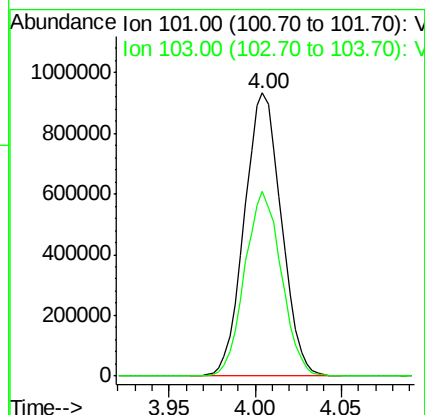
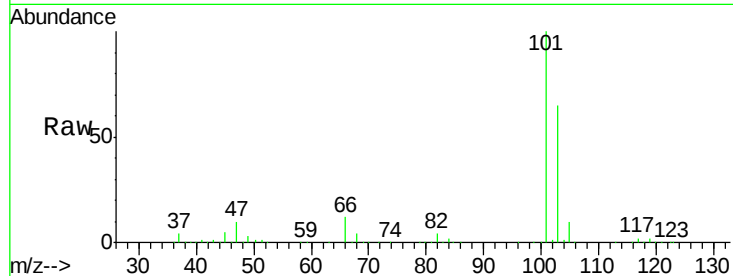
#11
 Trichlorofluoromethane
 Concen: 8.116 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. -0.00 min
 Lab File: VL033565.D
 Acq: 10 Apr 2019 15:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0410ABS01

Tot Ion:101 Resp: 1395798
 Ion Ratio Lower Upper
 101 100
 103 65.1 51.3 76.9

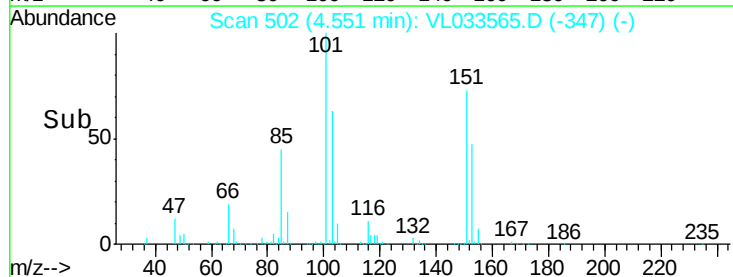
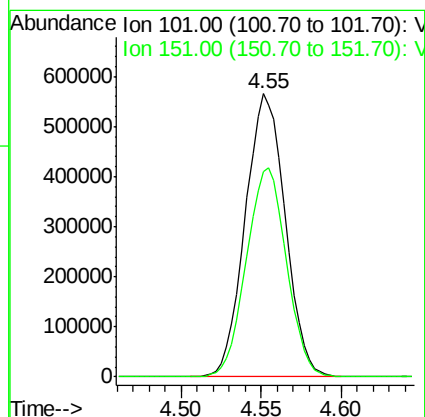
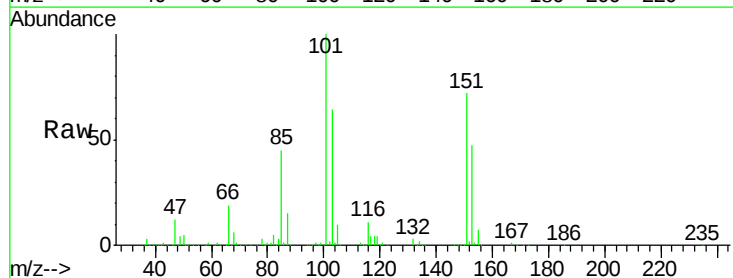
Manual Integrations
 APPROVED

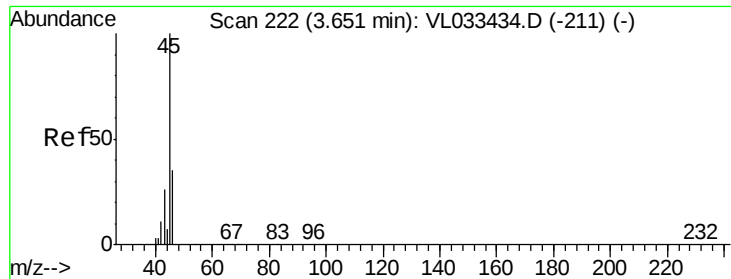
MMDadoda
 4/11/2019 1:01:05 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.375 ppbv
 RT: 4.55 min Scan# 502
 Delta R.T. -0.00 min
 Lab File: VL033565.D
 Acq: 10 Apr 2019 15:25

Tgt Ion:101 Resp: 967412
 Ion Ratio Lower Upper
 101 100
 151 74.4 57.7 86.5





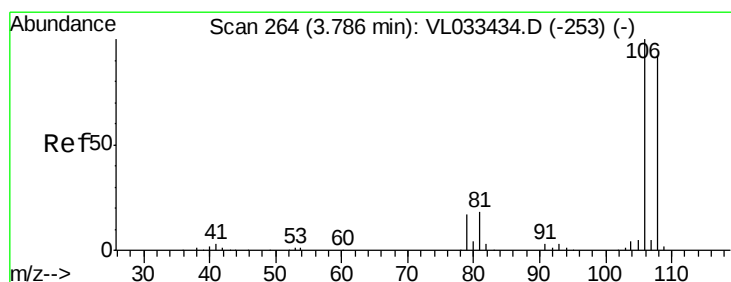
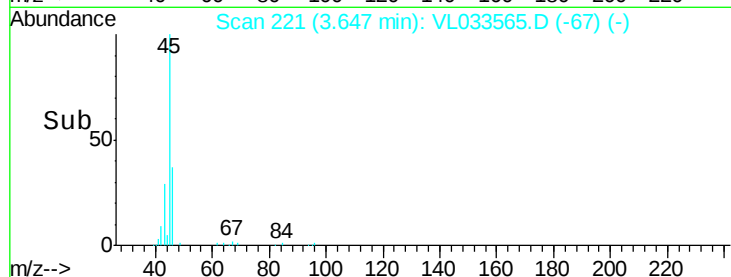
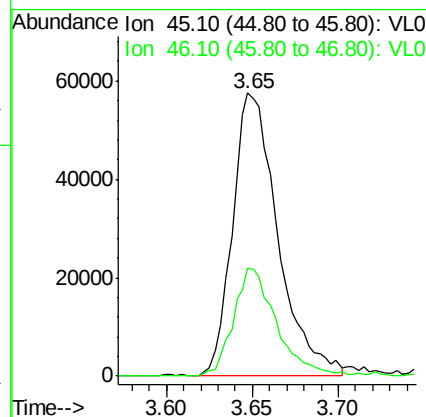
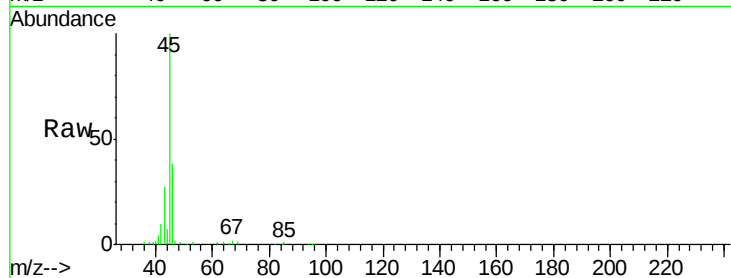
#13
Ethanol
Concen: 8.837 ppbv
RT: 3.65 min Scan# 221
Delta R.T. -0.00 min
Lab File: VL033565.D
Acq: 10 Apr 2019 15:25

Instrument :
MSVOA_L
ClientSampleId :
VL0410ABS01

Tot Ion: 45 Resp: 105790
Ion Ratio Lower Upper
45 100
46 36.6 25.4 101.8

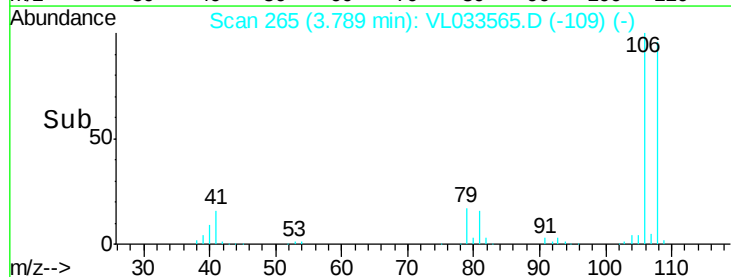
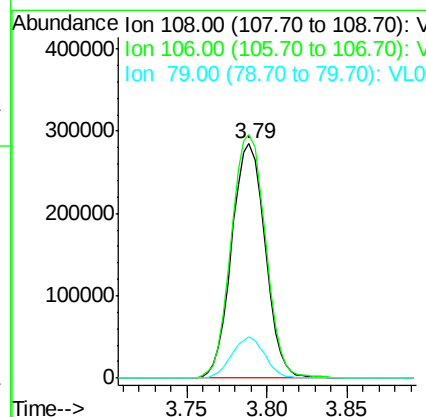
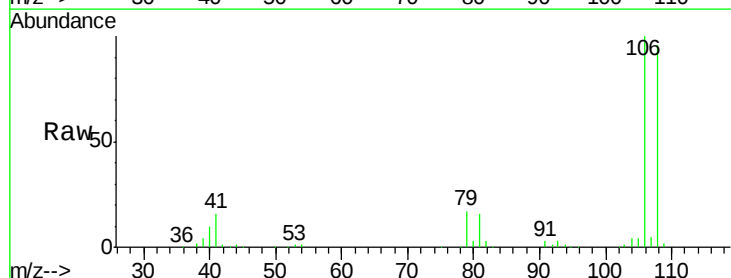
Manual Integrations
APPROVED

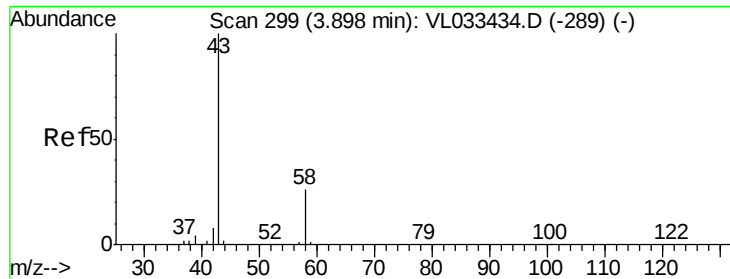
MMDadoda
4/11/2019 1:01:05 PM



#14
Bromoethene
Concen: 8.811 ppbv
RT: 3.79 min Scan# 265
Delta R.T. 0.00 min
Lab File: VL033565.D
Acq: 10 Apr 2019 15:25

Tgt Ion: 108 Resp: 405924
Ion Ratio Lower Upper
108 100
106 106.6 86.4 129.6
79 17.6 15.8 23.8





#15

Acetone

Concen: 7.924 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033565.D

Acq: 10 Apr 2019 15:25

Instrument :

MSVOA_L

ClientSampleId :

VL0410ABS01

Tot Ion: 43 Resp: 911665

Ion Ratio Lower Upper

43 100

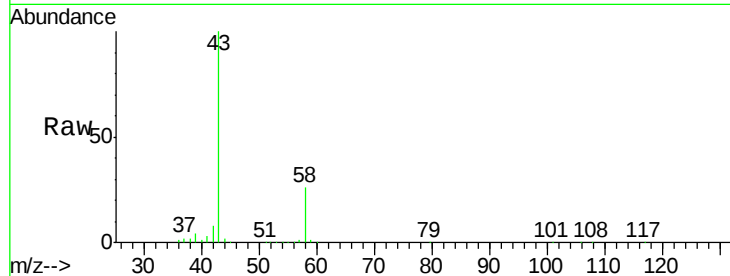
58 26.6 20.5 30.7

Manual Integrations

APPROVED

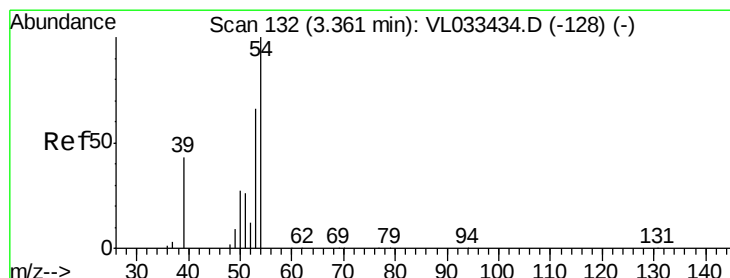
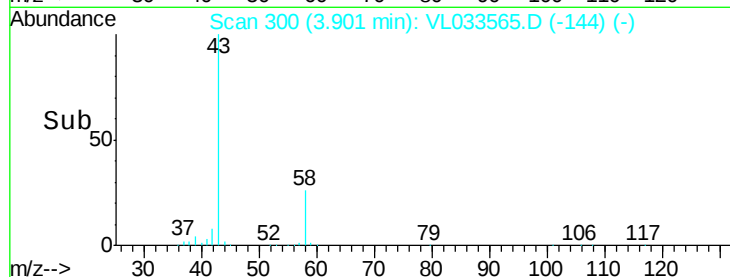
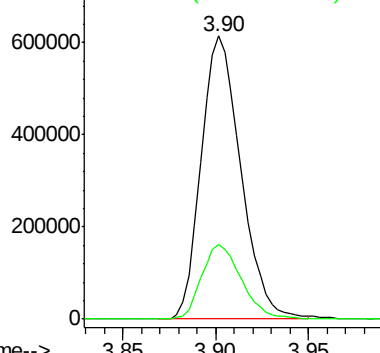
MMDadoda

4/11/2019 1:01:05 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 9.199 ppbv

RT: 3.36 min Scan# 133

Delta R.T. 0.00 min

Lab File: VL033565.D

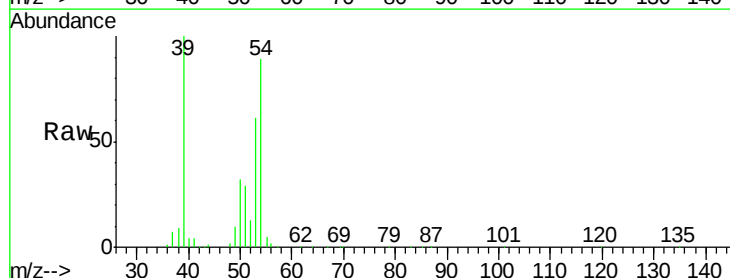
Acq: 10 Apr 2019 15:25

Tgt Ion: 39 Resp: 419764

Ion Ratio Lower Upper

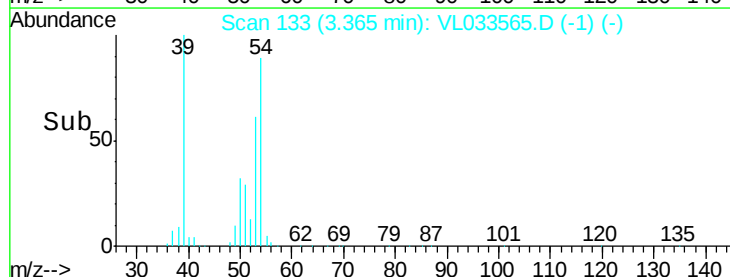
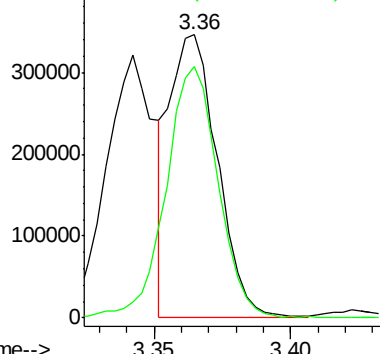
39 100

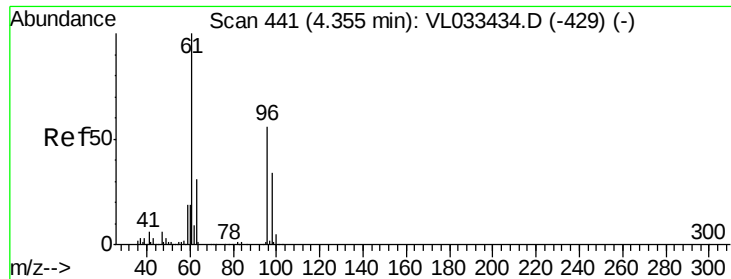
54 98.0 69.4 104.2



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

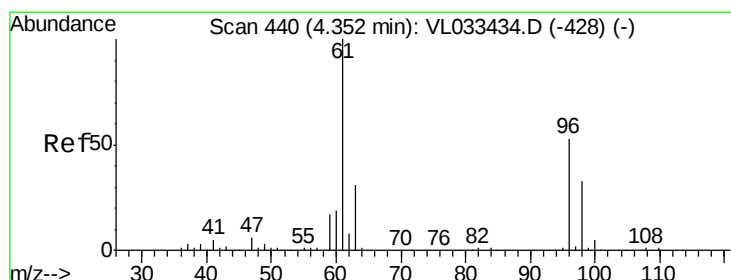
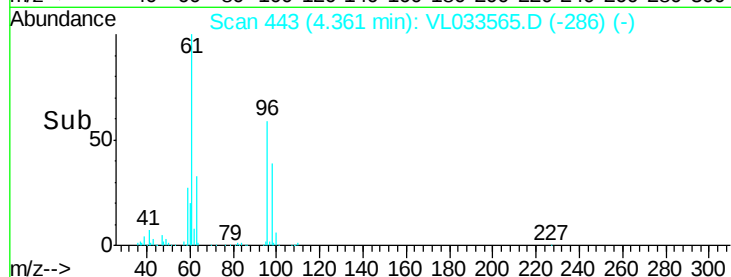
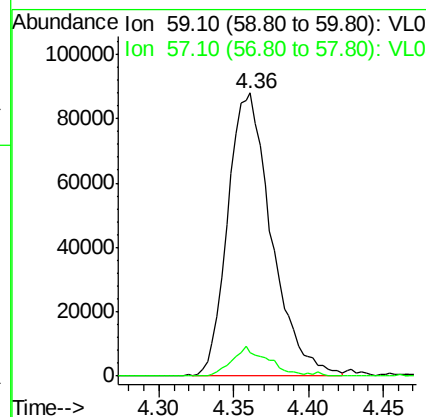
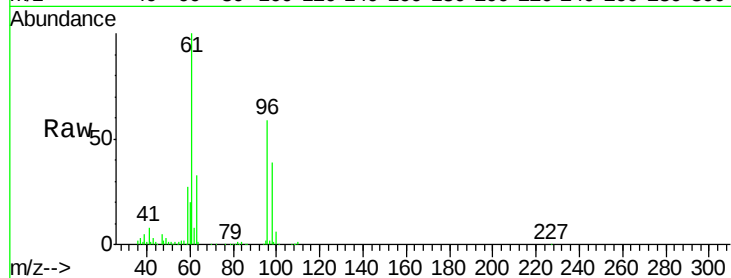
tert-Butyl alcohol
Concen: 8.395 ppbv
RT: 4.36 min Scan# 443
Delta R.T. 0.01 min
Lab File: VL033565.D
Acq: 10 Apr 2019 15:25

Instrument :
MSVOA_L
ClientSampleId :
VL0410ABS01

Tot Ion: 59 Resp: 177578
Ion Ratio Lower Upper
59 100
57 9.1 7.8 11.8

Manual Integrations
APPROVED

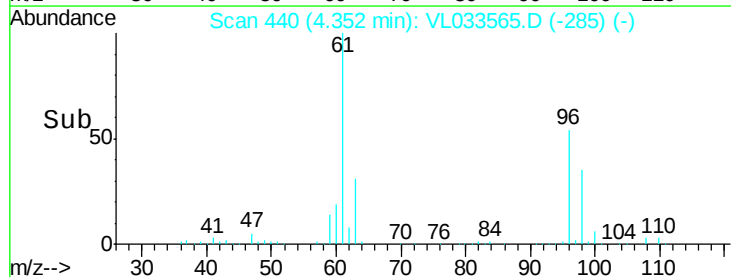
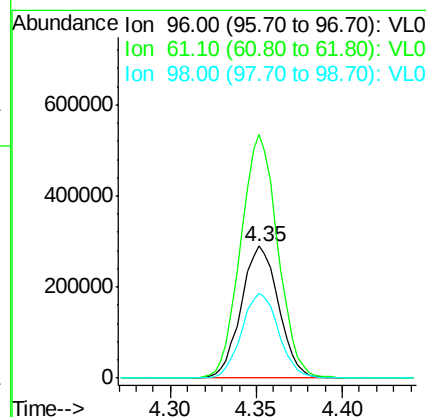
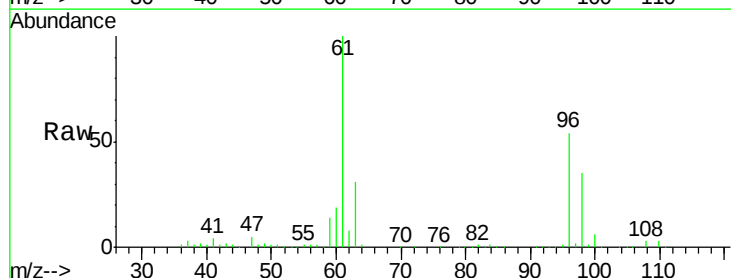
MMDadoda
4/11/2019 1:01:05 PM

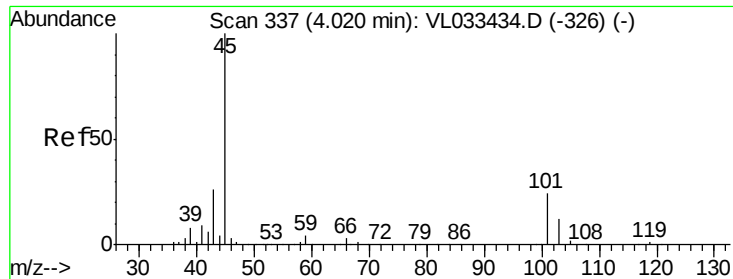


#18

1,1-Dichloroethene
Concen: 8.826 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.00 min
Lab File: VL033565.D
Acq: 10 Apr 2019 15:25

Tgt Ion: 96 Resp: 437946
Ion Ratio Lower Upper
96 100
61 184.1 149.8 224.6
98 63.9 48.7 73.1





#19

Isopropyl Alcohol

Concen: 8.228 ppbv

RT: 4.02 min Scan# 338

Delta R.T. 0.00 min

Lab File: VL033565.D

Acq: 10 Apr 2019 15:25

Instrument :

MSVOA_L

ClientSampleId :

VL0410ABS01

Tot Ion: 45 Resp: 598718

Ion Ratio Lower Upper

45 100

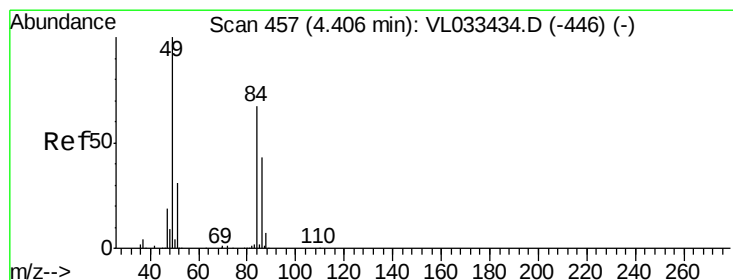
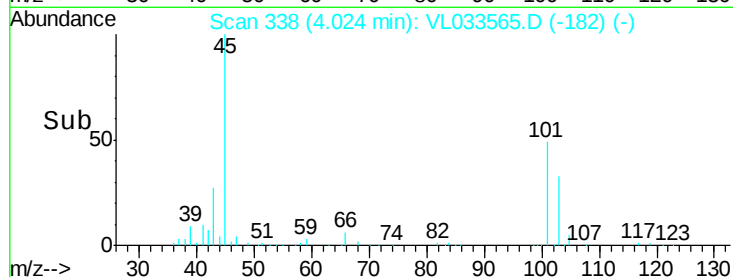
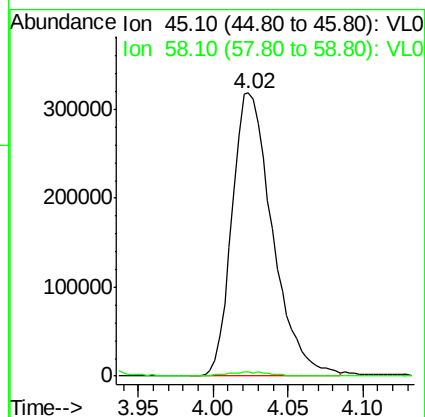
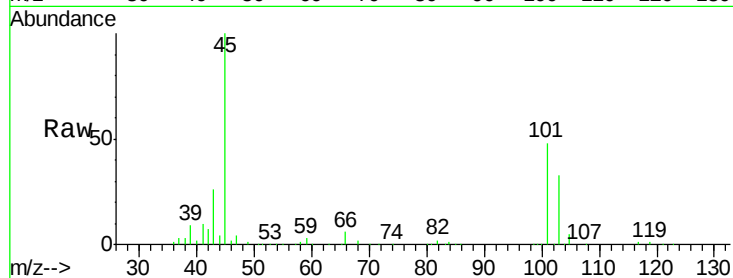
58 1.9 1.4 2.2

Manual Integrations

APPROVED

MMDadoda

4/11/2019 1:01:05 PM



#20

Methylene Chloride

Concen: 7.788 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL033565.D

Acq: 10 Apr 2019 15:25

Tgt Ion: 84 Resp: 380331

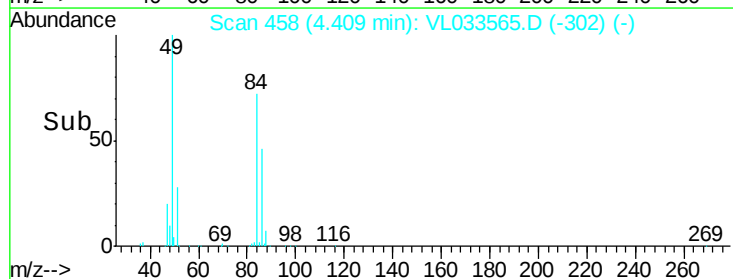
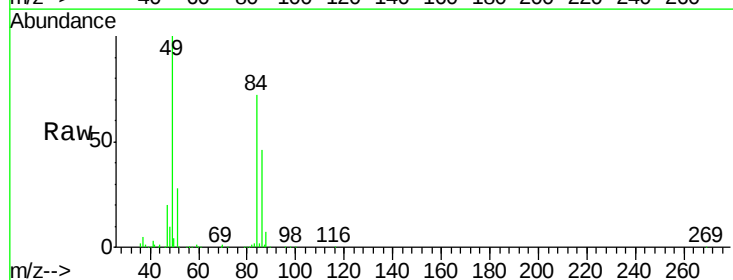
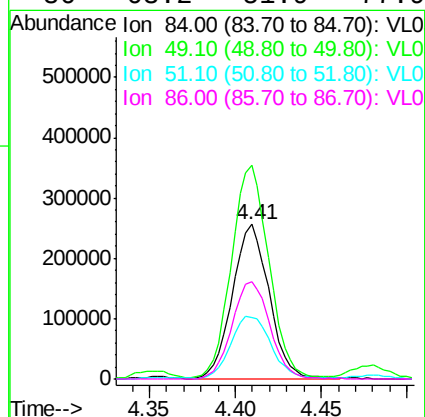
Ion Ratio Lower Upper

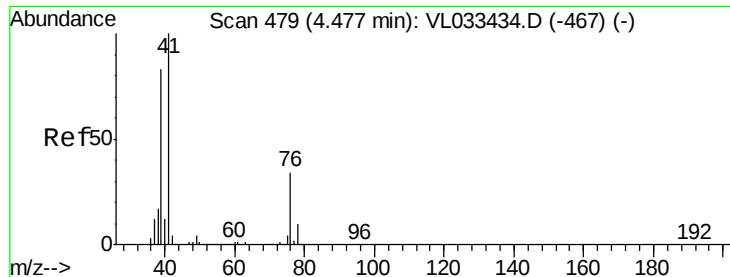
84 100

49 137.5 120.0 180.0

51 39.0 36.7 55.1

86 63.2 51.9 77.9





#21

Allvl Chloride

Concen: 8.966 ppbv

RT: 4.48 min Scan# 479

Delta R.T. -0.00 min

Lab File: VL033565.D

Acq: 10 Apr 2019 15:25

Instrument :

MSVOA_L

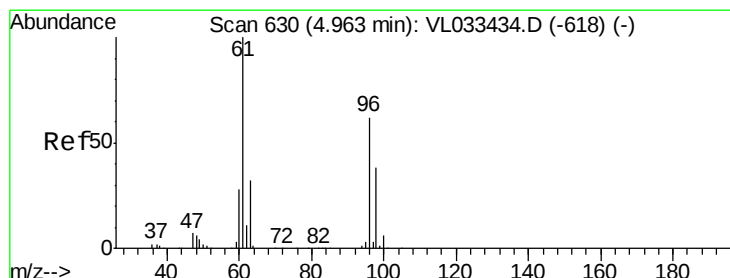
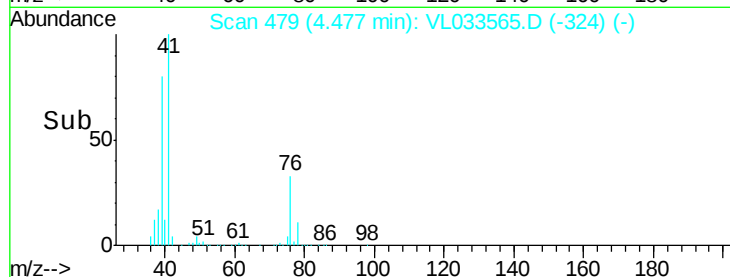
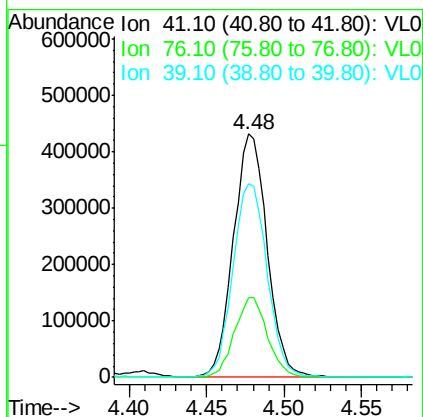
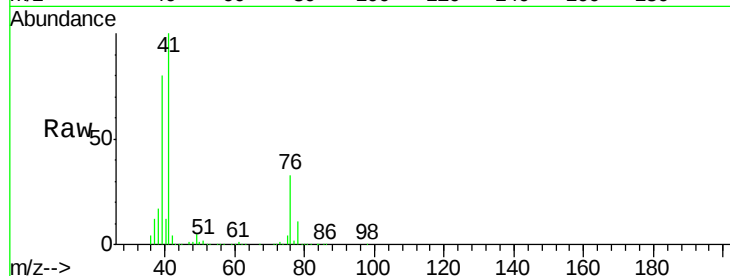
ClientSampleId :

VL0410ABS01

Tot Ion:	41	Resp:	652089
Ion	Ratio	Lower	Upper
41	100		
76	32.0	25.4	38.2
39	81.1	65.3	97.9

Manual Integrations
APPROVED

MMDadoda
4/11/2019 1:01:05 PM



#22

trans-1,2-Dichloroethene

Concen: 8.759 ppbv

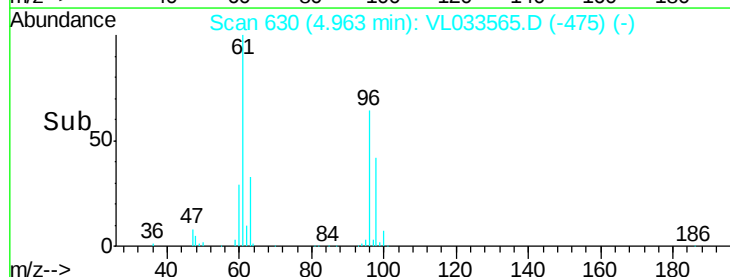
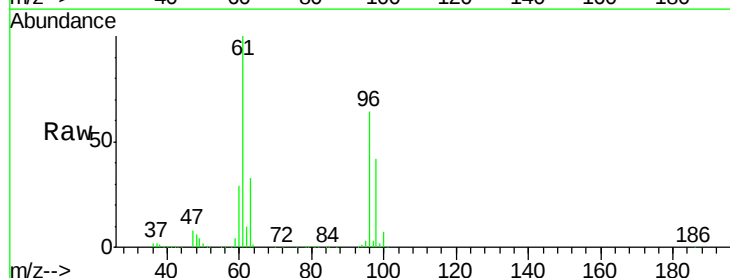
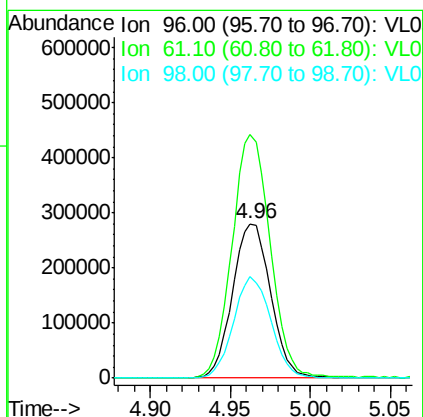
RT: 4.96 min Scan# 630

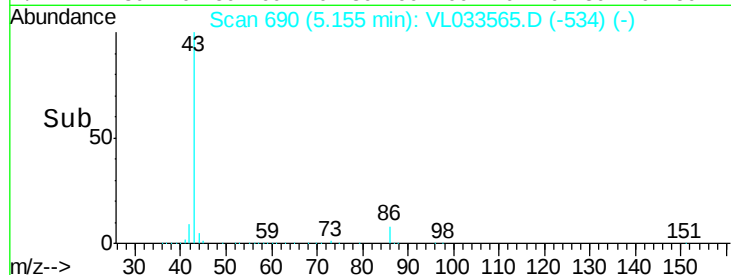
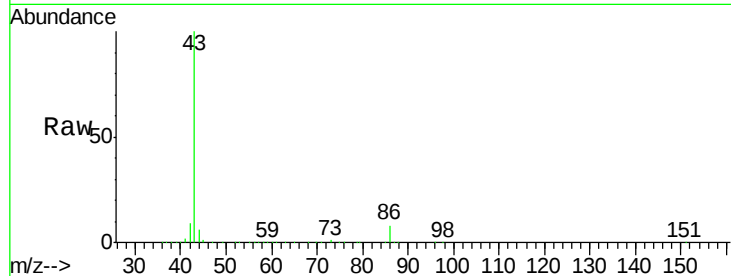
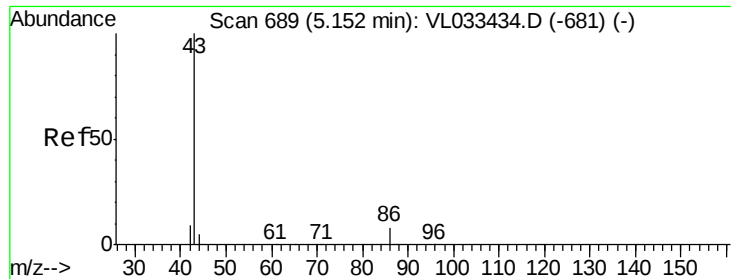
Delta R.T. -0.00 min

Lab File: VL033565.D

Acq: 10 Apr 2019 15:25

Tgt Ion:	96	Resp:	453421
Ion	Ratio	Lower	Upper
96	100		
61	157.4	128.9	193.3
98	65.7	49.5	74.3





#23

Vinyl Acetate

Concen: 9.153 ppbv

RT: 5.16 min Scan# 690

Delta R.T. 0.00 min

Lab File: VL033565.D

Acq: 10 Apr 2019 15:25

Tot Ion: 43 Resp: 1498805

Ion Ratio Lower Upper

43 100

86 7.7 5.6 8.4

42 9.0 8.0 12.0

44 5.3 3.9 5.9

Instrument :

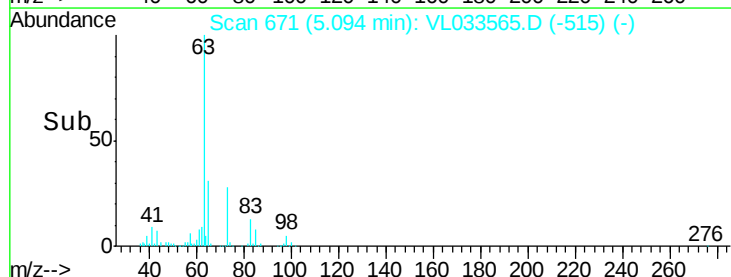
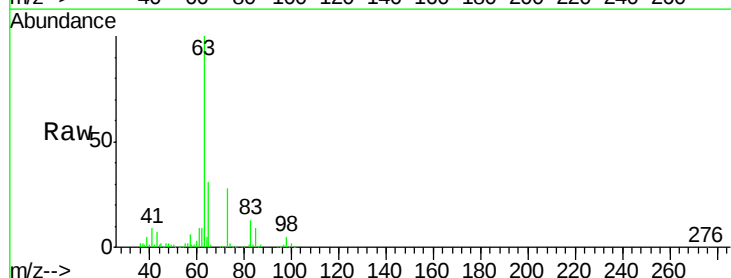
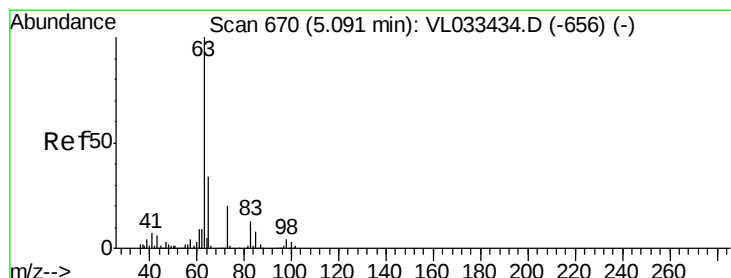
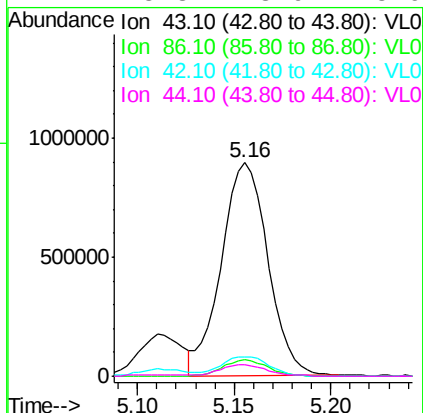
MSVOA_L

ClientSampleId :

VL0410ABS01

Manual Integrations
APPROVED

MMDadoda
4/11/2019 1:01:05 PM



#24

1,1-Dichloroethane

Concen: 8.303 ppbv

RT: 5.09 min Scan# 671

Delta R.T. 0.00 min

Lab File: VL033565.D

Acq: 10 Apr 2019 15:25

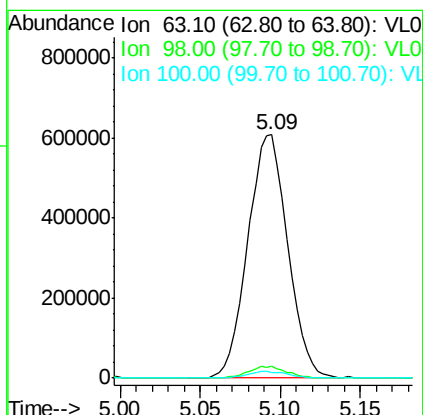
Tgt Ion: 63 Resp: 1032730

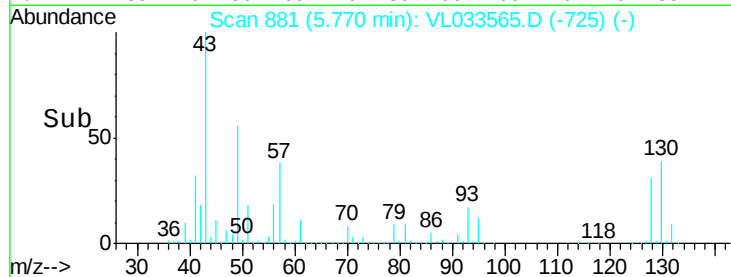
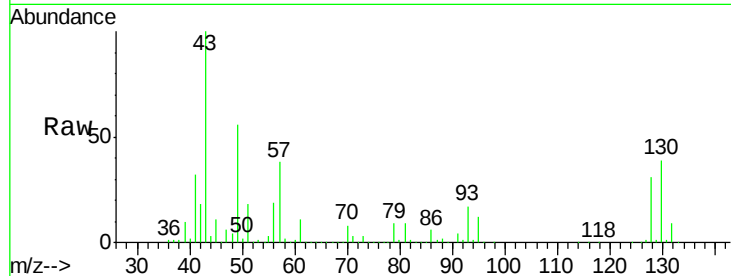
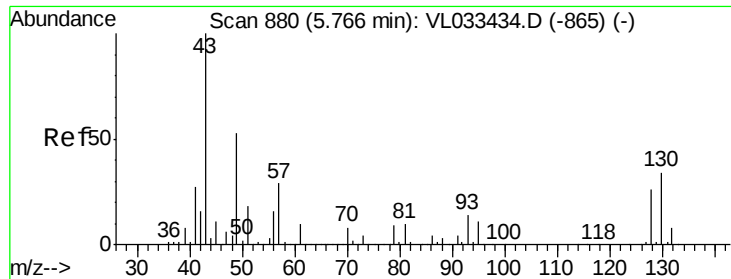
Ion Ratio Lower Upper

63 100

98 4.9 2.2 6.6

100 2.4 1.5 4.4





#25

Ethyl Acetate

Concen: 8.156 ppbv

RT: 5.77 min Scan# 881

Delta R.T. 0.00 min

Lab File: VL033565.D

Acq: 10 Apr 2019 15:25

Tot Ion: 43 Resp: 1740940

Ion Ratio Lower Upper

43 100

45 9.6 7.8 11.6

61 9.6 7.3 10.9

70 7.2 5.6 8.4

Instrument :

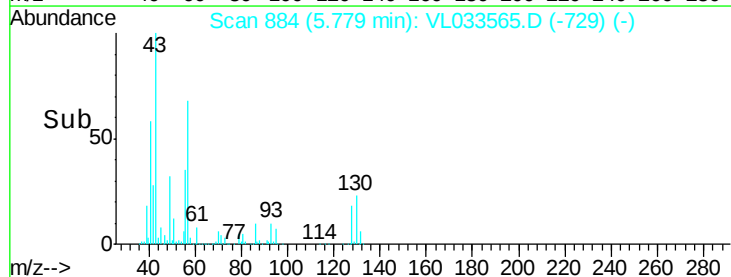
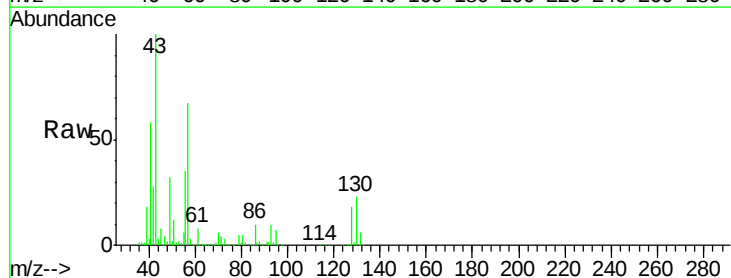
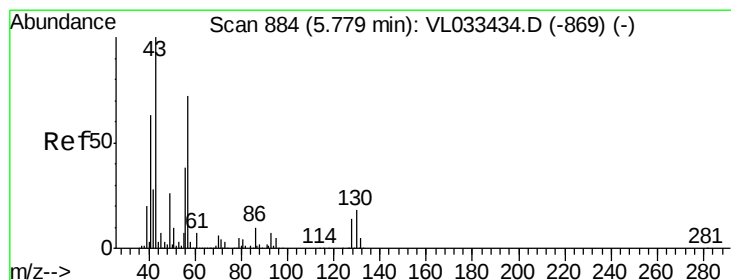
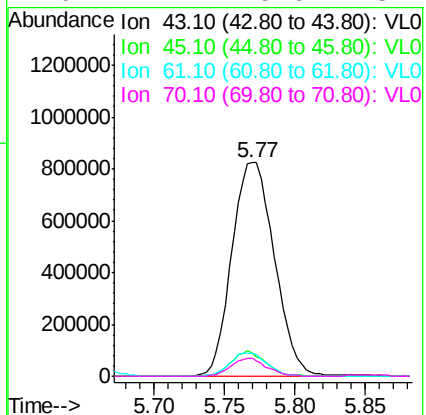
MSVOA_L

ClientSampleId :

VL0410ABS01

Manual Integrations
APPROVED

MMDadoda
4/11/2019 1:01:05 PM



#26

Hexane

Concen: 8.368 ppbv

RT: 5.78 min Scan# 884

Delta R.T. -0.00 min

Lab File: VL033565.D

Acq: 10 Apr 2019 15:25

Tgt Ion: 57 Resp: 794160

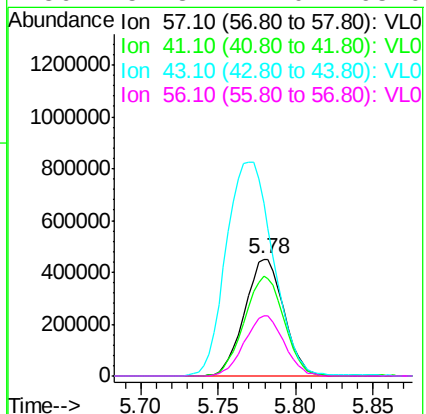
Ion Ratio Lower Upper

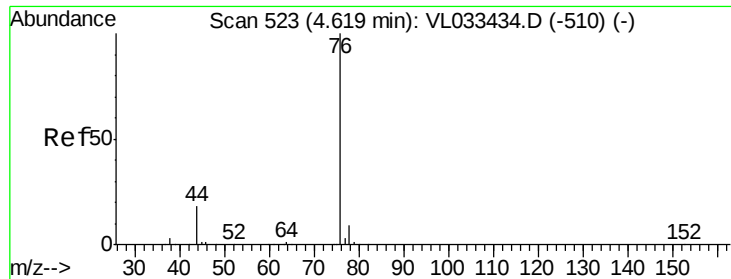
57 100

41 86.5 70.7 106.1

43 220.6 182.6 274.0

56 52.3 42.0 63.0





#27

Carbon Disulfide

Concen: 9.792 ppbv

RT: 4.62 min Scan# 523

Delta R.T. -0.00 min

Lab File: VL033565.D

Acq: 10 Apr 2019 15:25

Instrument :

MSVOA_L

ClientSampleId :

VL0410ABS01

Tot Ion: 76 Resp: 1105118

Ion Ratio Lower Upper

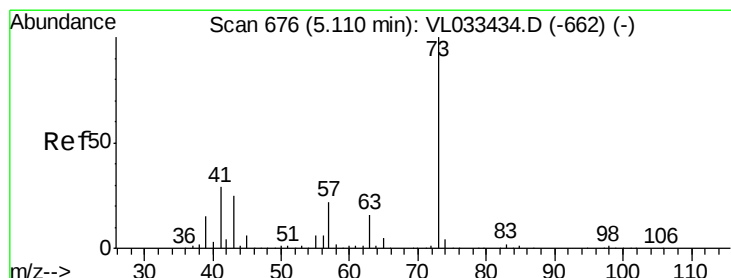
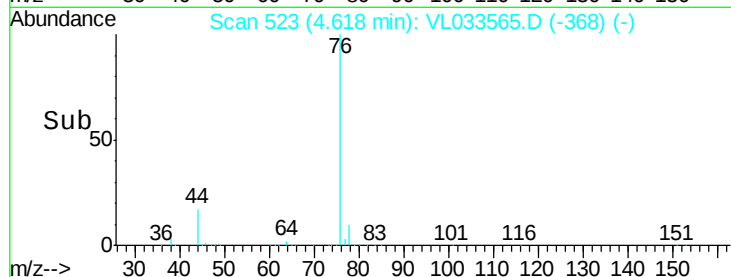
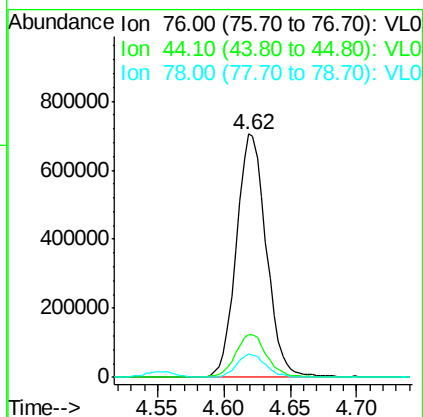
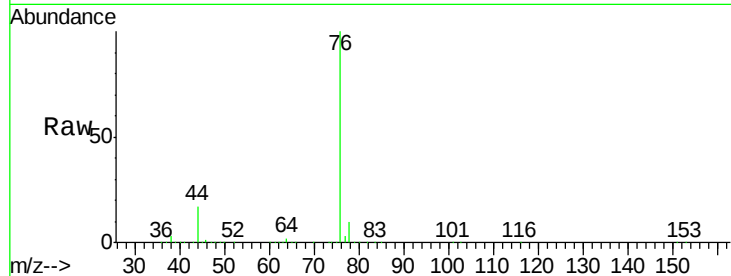
76 100

44 18.1 14.8 22.2

78 9.4 7.6 11.4

Manual Integrations
APPROVED

MMDadoda
4/11/2019 1:01:05 PM



#28

Methyl tert-Butyl Ether

Concen: 9.334 ppbv

RT: 5.11 min Scan# 676

Delta R.T. -0.00 min

Lab File: VL033565.D

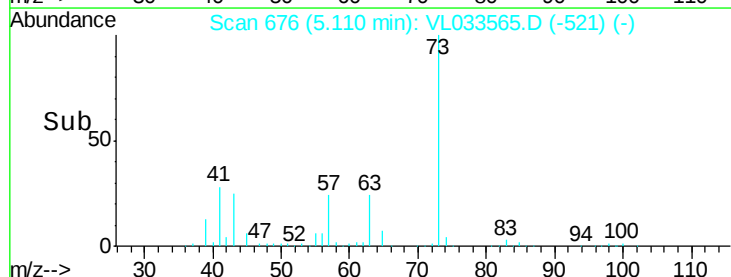
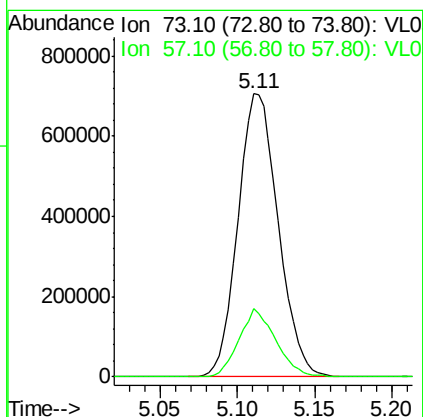
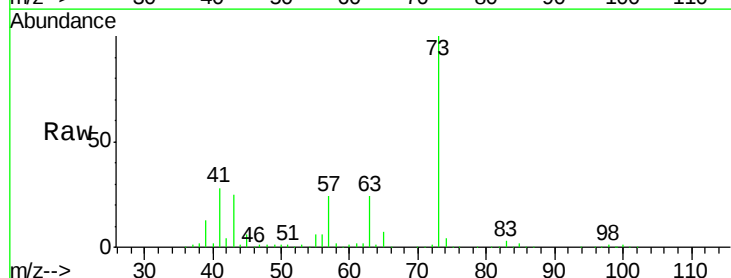
Acq: 10 Apr 2019 15:25

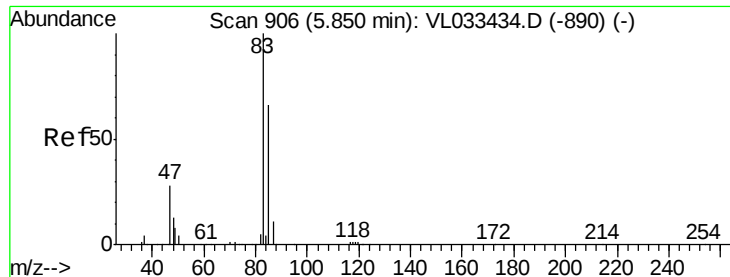
Tgt Ion: 73 Resp: 1275984

Ion Ratio Lower Upper

73 100

57 22.2 17.4 26.2





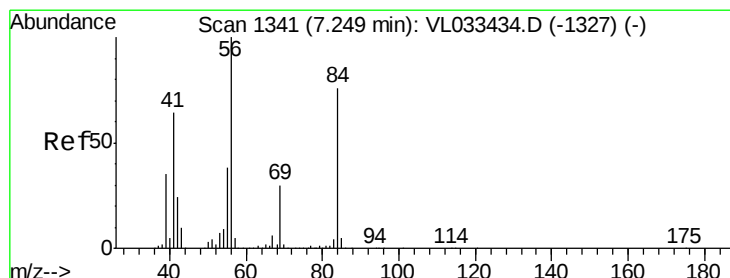
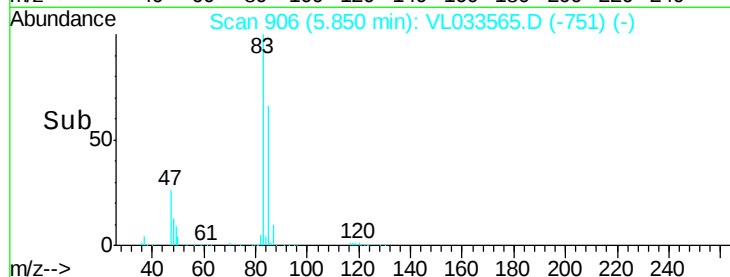
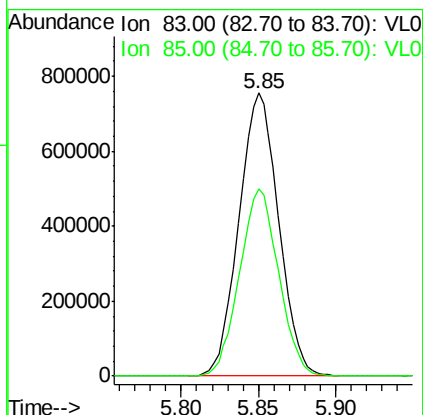
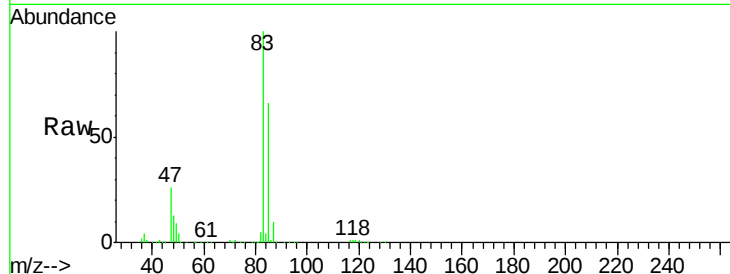
#29
Chloroform
Concen: 8.295 ppbv
RT: 5.85 min Scan# 906
Delta R.T. -0.00 min
Lab File: VL033565.D
Acq: 10 Apr 2019 15:25

Instrument :
MSVOA_L
ClientSampleId :
VL0410ABS01

Tot Ion: 83 Resp: 1349558
Ion Ratio Lower Upper
83 100
85 66.2 52.6 79.0

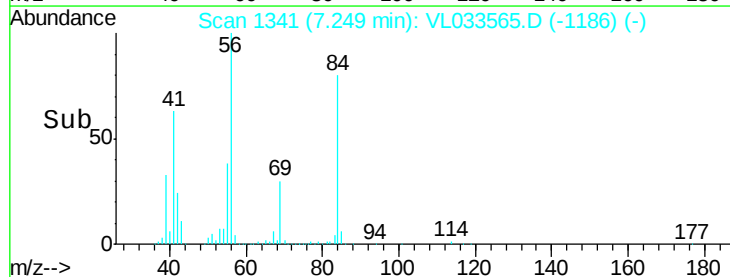
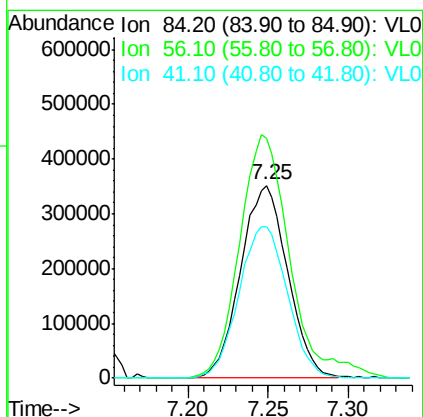
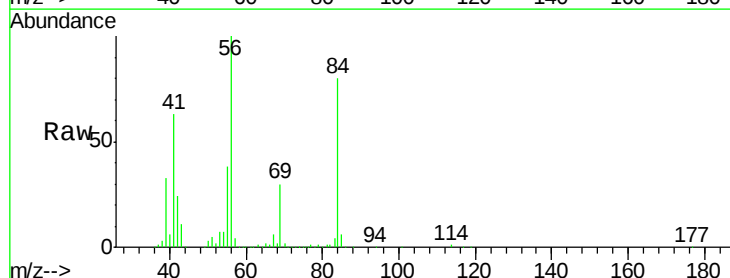
Manual Integrations
APPROVED

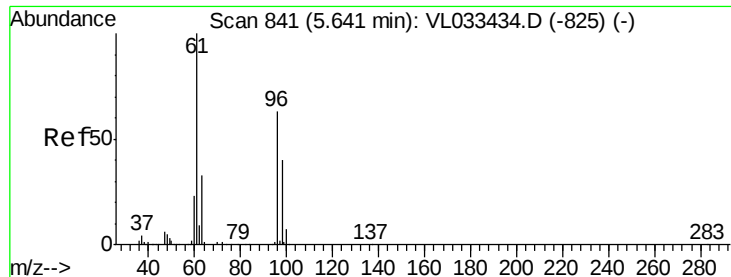
MMDadoda
4/11/2019 1:01:05 PM



#30
Cyclohexane
Concen: 9.427 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. -0.00 min
Lab File: VL033565.D
Acq: 10 Apr 2019 15:25

Tgt Ion: 84 Resp: 707775
Ion Ratio Lower Upper
84 100
56 135.4 109.7 164.5
41 81.5 68.2 102.2





#31

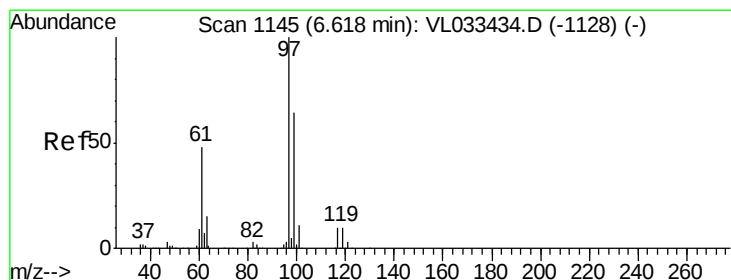
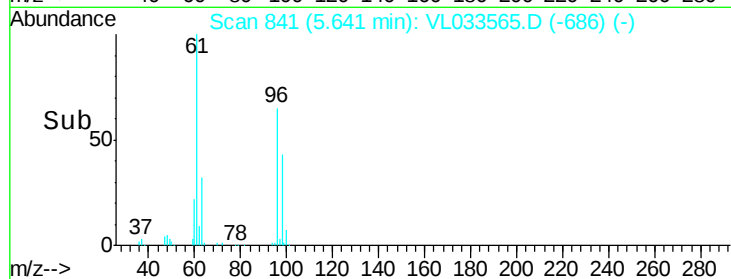
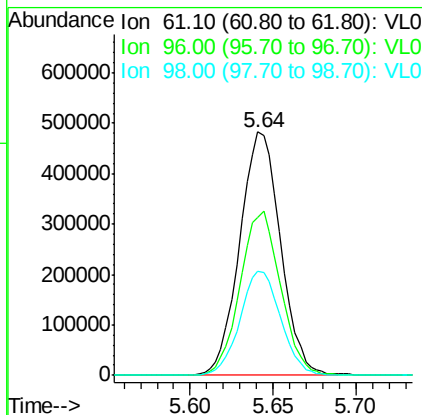
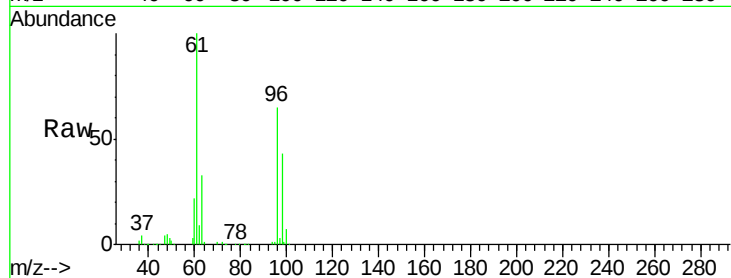
cis-1,2-Dichloroethene
 Concen: 8.772 ppbv
 RT: 5.64 min Scan# 841
 Delta R.T. -0.00 min
 Lab File: VL033565.D
 Acq: 10 Apr 2019 15:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0410ABS01

Tot Ion	Ratio	Lower	Upper
61	100		
96	64.7	50.6	76.0
98	42.5	32.2	48.2

Manual Integrations
 APPROVED

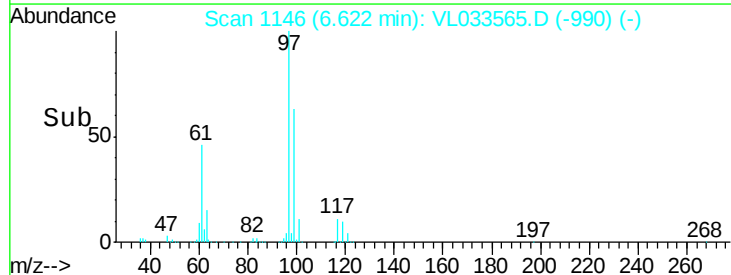
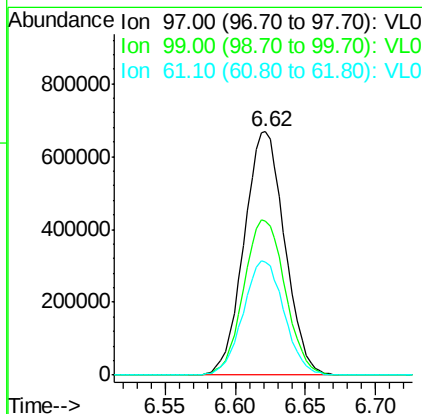
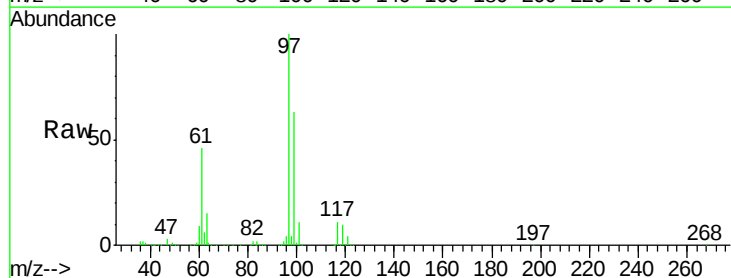
MMDadoda
 4/11/2019 1:01:05 PM

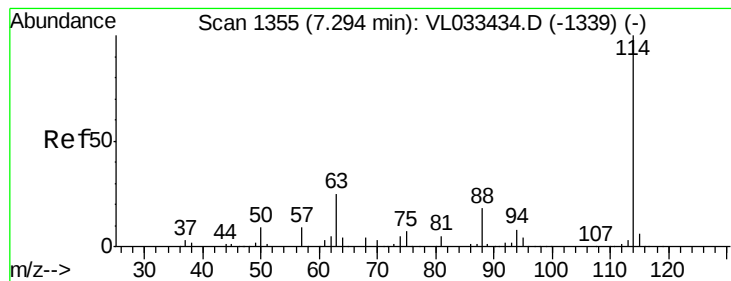


#32

1,1,1-Trichloroethane
 Concen: 8.711 ppbv
 RT: 6.62 min Scan# 1146
 Delta R.T. 0.00 min
 Lab File: VL033565.D
 Acq: 10 Apr 2019 15:25

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.0	51.5	77.3
61	47.3	38.8	58.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1355

Delta R.T. -0.00 min

Lab File: VL033565.D

Acq: 10 Apr 2019 15:25

Instrument :

MSVOA_L

ClientSampleId :

VL0410ABS01

Tot Ion:114 Resp: 2489056

Ion Ratio Lower Upper

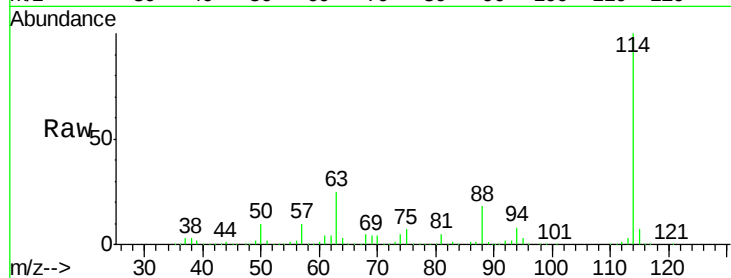
114 100

63 25.2 21.5 32.3

88 17.6 14.5 21.7

Manual Integrations
APPROVED

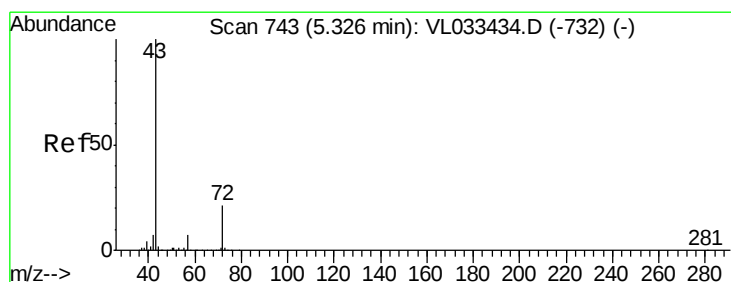
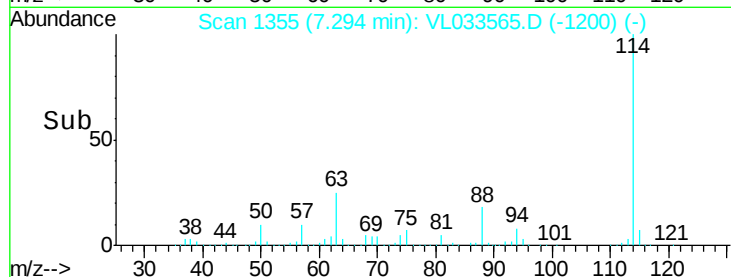
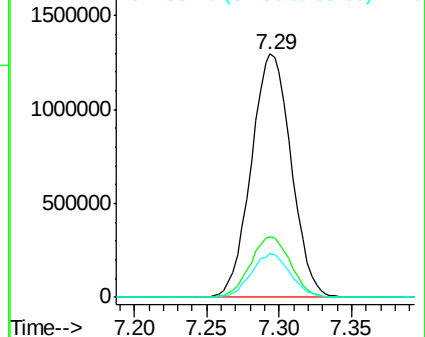
MMDadoda
4/11/2019 1:01:05 PM



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 7.721 ppbv

RT: 5.33 min Scan# 744

Delta R.T. 0.00 min

Lab File: VL033565.D

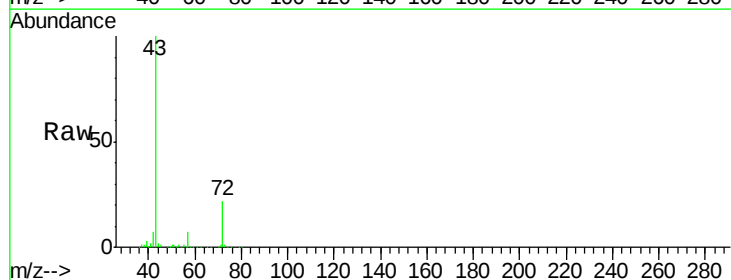
Acq: 10 Apr 2019 15:25

Tgt Ion: 43 Resp: 1154567

Ion Ratio Lower Upper

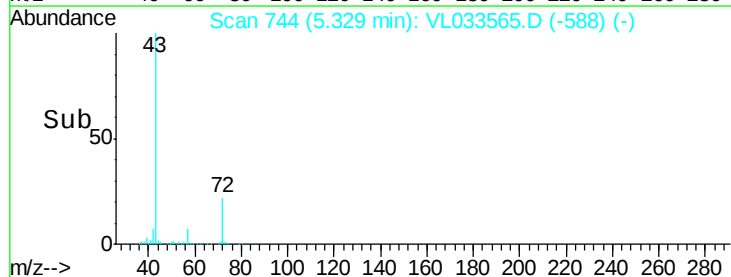
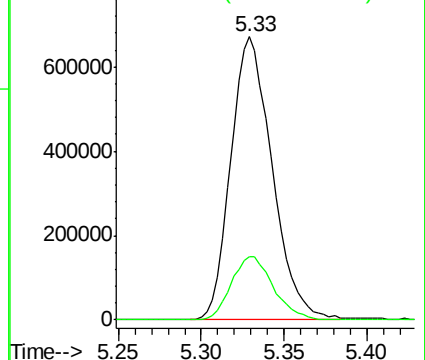
43 100

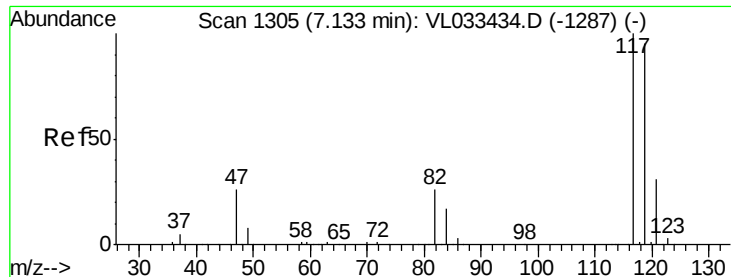
72 23.0 17.4 26.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 8.264 ppbv

RT: 7.14 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VL033565.D

Acq: 10 Apr 2019 15:25

Instrument :

MSVOA_L

ClientSampleId :

VL0410ABS01

Tot Ion:117 Resp: 1456984

Ion Ratio Lower Upper

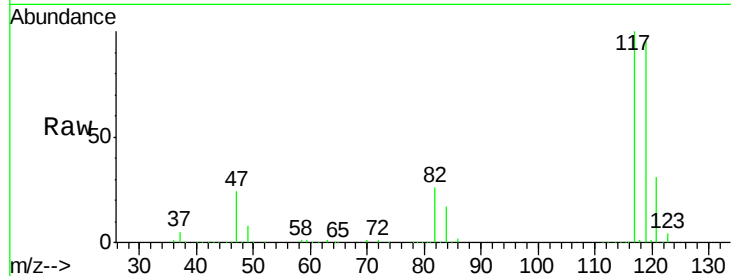
117 100

119 94.8 75.8 113.8

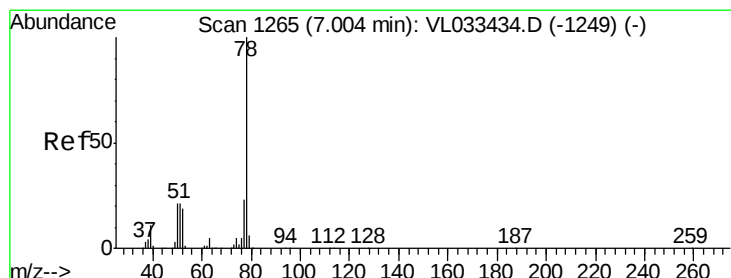
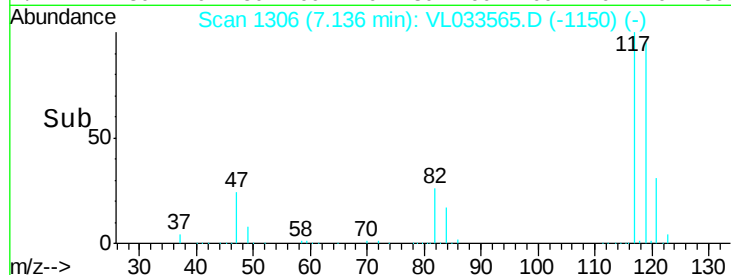
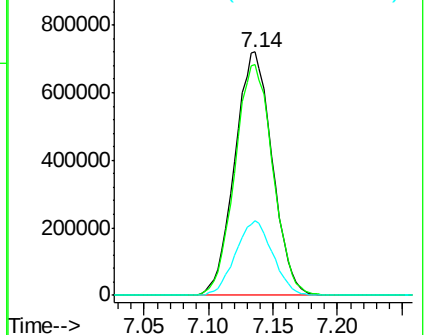
121 30.9 24.7 37.1

Manual Integrations
APPROVED

MMDadoda
4/11/2019 1:01:05 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: 8.384 ppbv

RT: 7.01 min Scan# 1266

Delta R.T. 0.00 min

Lab File: VL033565.D

Acq: 10 Apr 2019 15:25

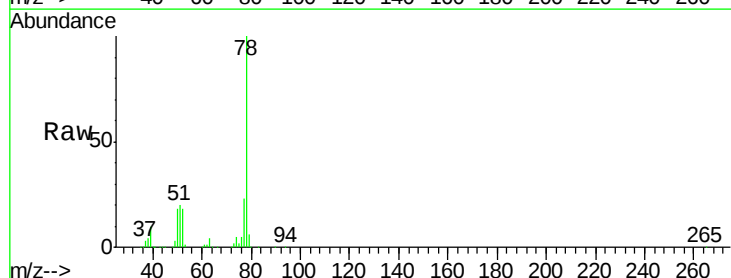
Tgt Ion: 78 Resp: 1751055

Ion Ratio Lower Upper

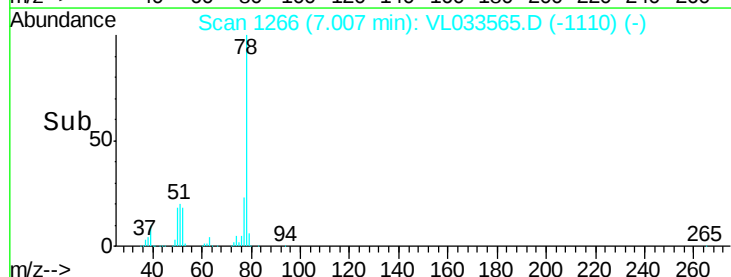
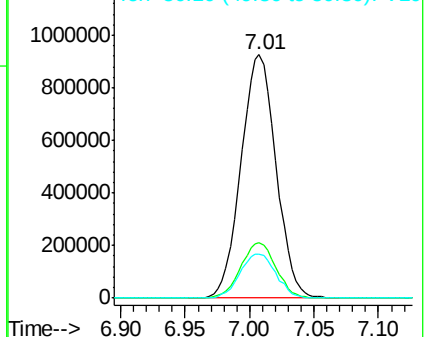
78 100

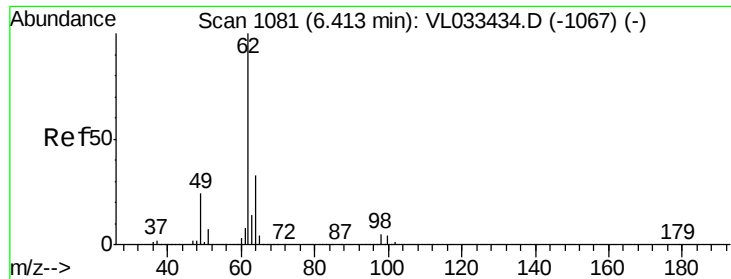
77 22.8 18.1 27.1

50 18.1 16.7 25.1



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0





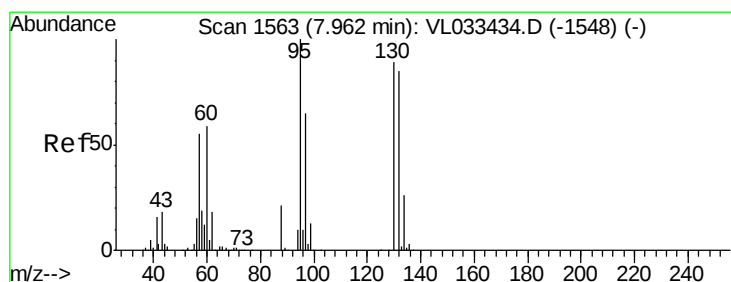
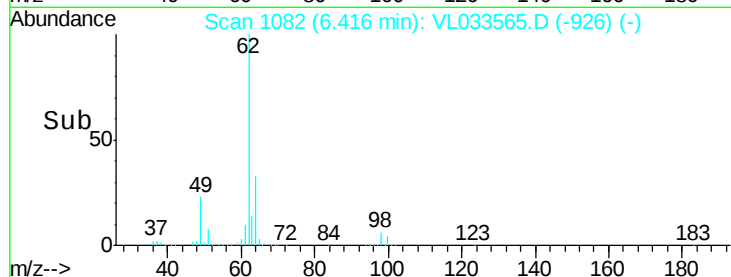
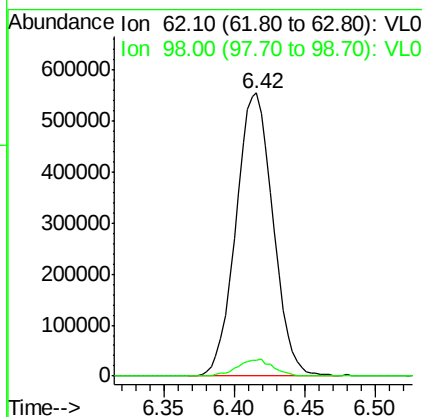
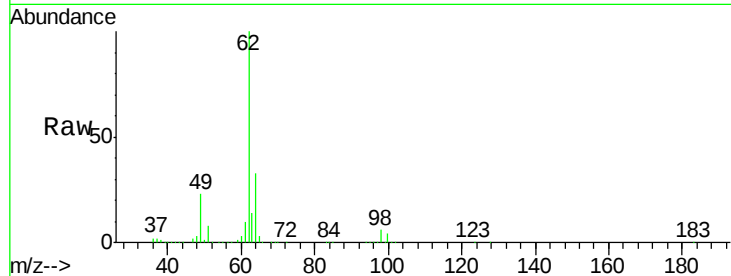
#37
 1,2-Dichloroethane
 Concen: 7.314 ppbv
 RT: 6.42 min Scan# 1082
 Delta R.T. 0.00 min
 Lab File: VL033565.D
 Acq: 10 Apr 2019 15:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0410ABS01

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.9	4.4	6.6

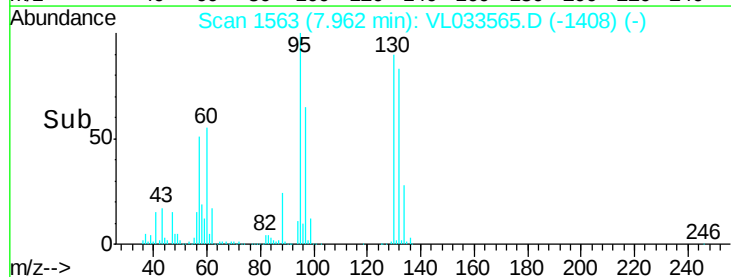
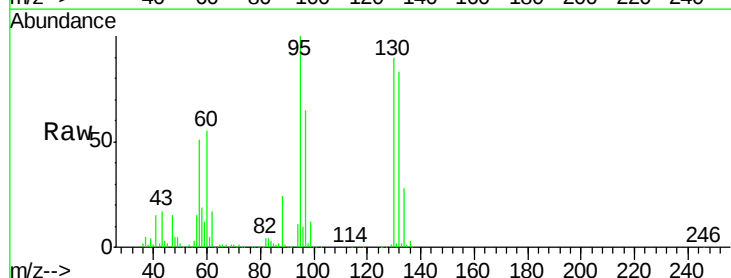
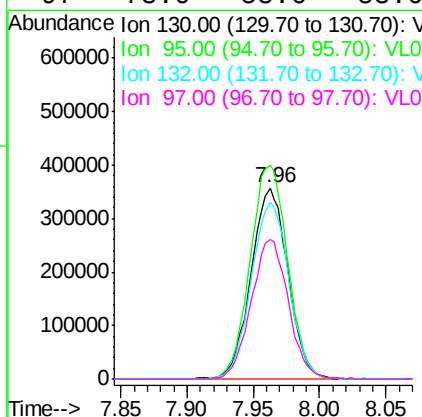
Manual Integrations
 APPROVED

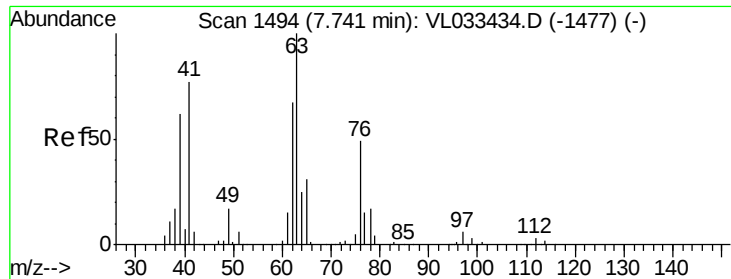
MMDadoda
 4/11/2019 1:01:05 PM



#38
 Trichloroethene
 Concen: 8.776 ppbv
 RT: 7.96 min Scan# 1563
 Delta R.T. -0.00 min
 Lab File: VL033565.D
 Acq: 10 Apr 2019 15:25

Tgt Ion	Ratio	Lower	Upper
130	100		
95	111.8	89.8	134.8
132	92.8	76.6	115.0
97	73.0	58.6	88.0





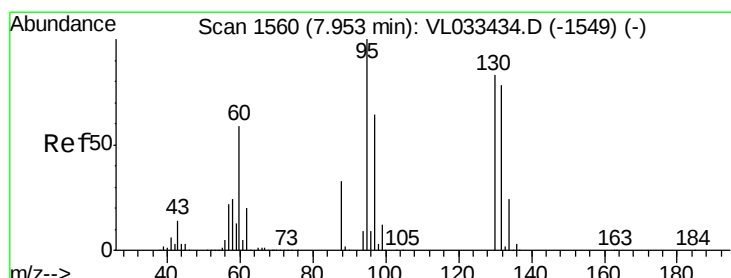
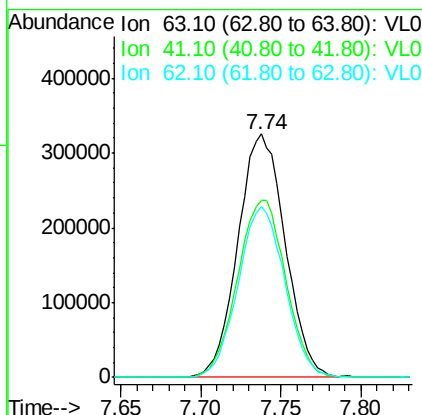
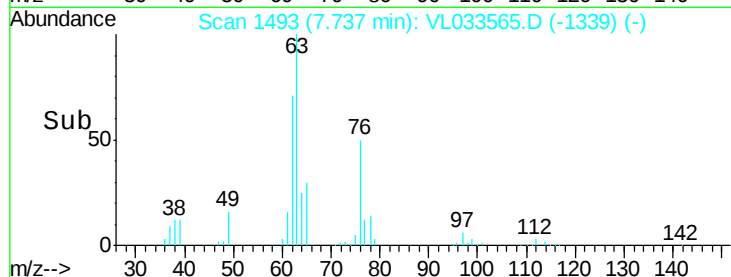
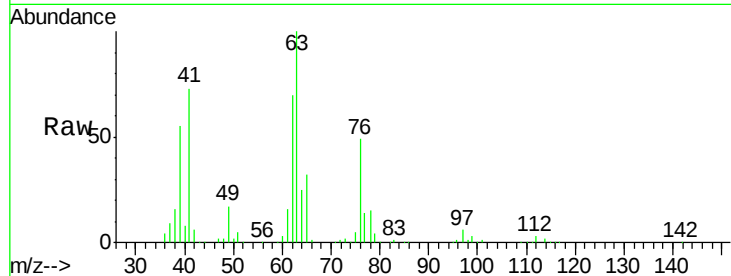
#39
 1,2-Dichloropropane
 Concen: 8.014 ppbv
 RT: 7.74 min Scan# 1493
 Delta R.T. -0.00 min
 Lab File: VL033565.D
 Acq: 10 Apr 2019 15:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0410ABS01

Tot Ion	Ratio	Lower	Upper
63	100		
41	72.7	61.2	91.8
62	70.0	54.0	81.0

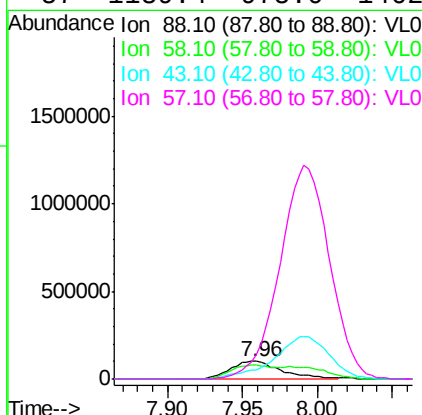
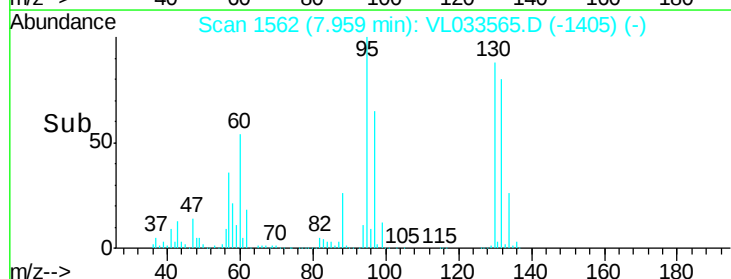
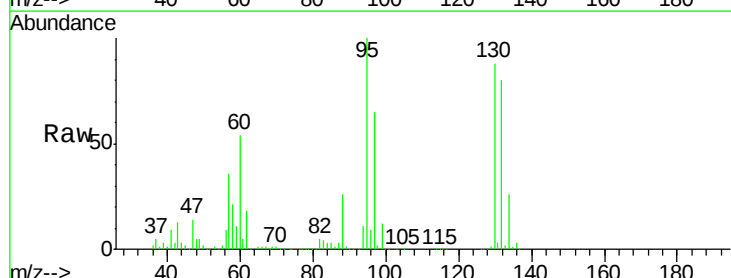
Manual Integrations
 APPROVED

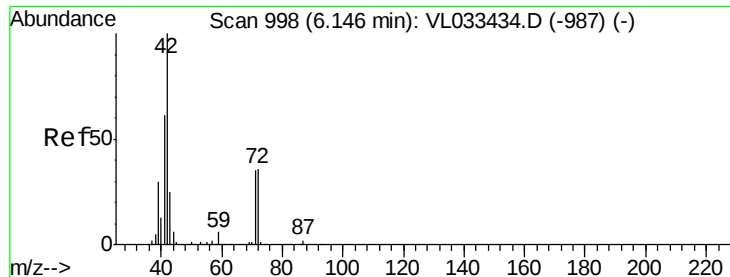
MMDadoda
 4/11/2019 1:01:05 PM



#40
 1,4-Dioxane
 Concen: 8.124 ppbv
 RT: 7.96 min Scan# 1562
 Delta R.T. 0.01 min
 Lab File: VL033565.D
 Acq: 10 Apr 2019 15:25

Tgt Ion	Ratio	Lower	Upper
88	100		
58	129.8	105.6	158.4
43	262.1	216.7	325.1
57	1189.4	975.0	1462.4





#41

Tetrahydrofuran

Concen: 8.307 ppbv

RT: 6.15 min Scan# 999

Delta R.T. 0.00 min

Lab File: VL033565.D

Acq: 10 Apr 2019 15:25

Instrument :

MSVOA_L

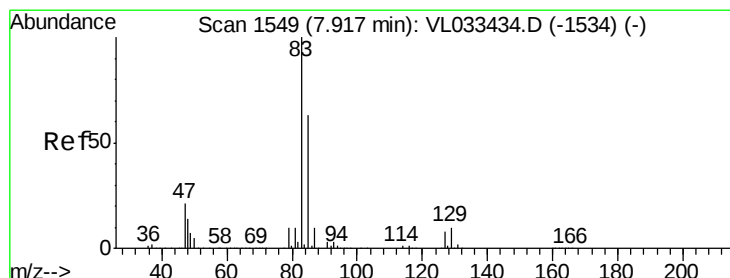
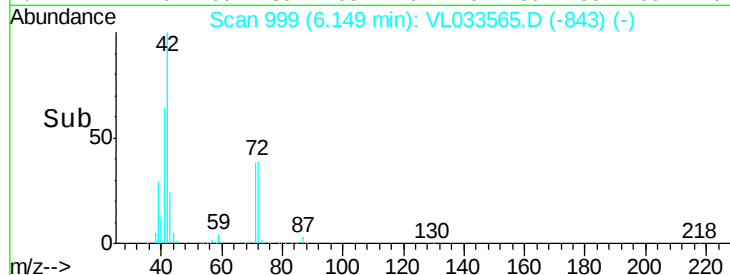
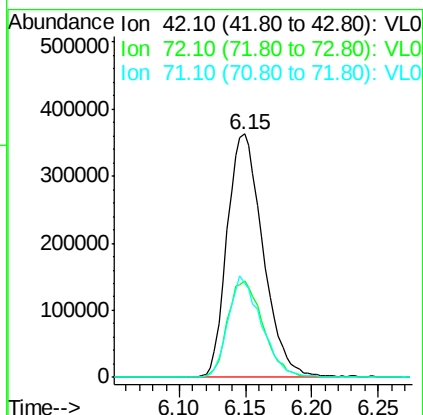
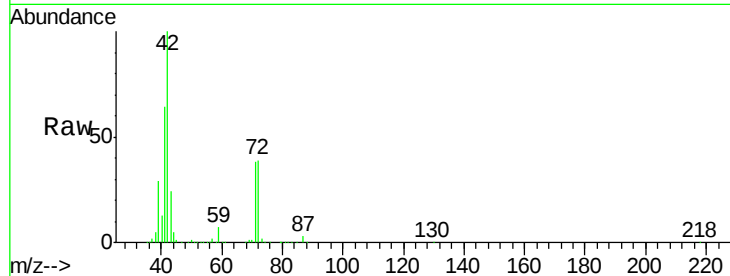
ClientSampleId :

VL0410ABS01

Tot Ion:	42	Resp:	683302
Ion Ratio		Lower	Upper
42	100		
72	39.3	30.2	45.2
71	38.5	29.4	44.2

Manual Integrations
APPROVED

MMDadoda
4/11/2019 1:01:05 PM



#42

Bromodichloromethane

Concen: 7.820 ppbv

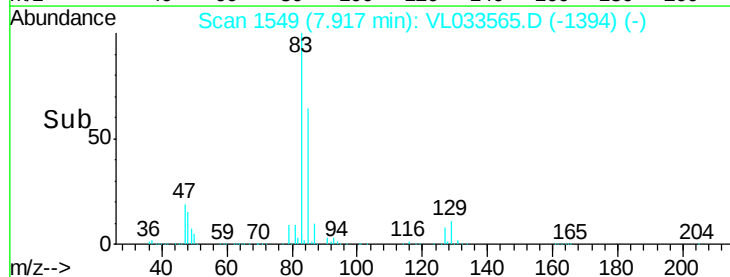
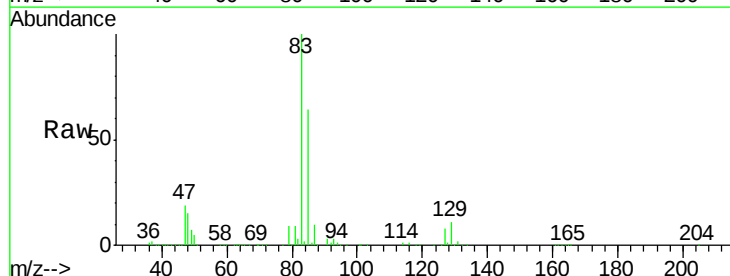
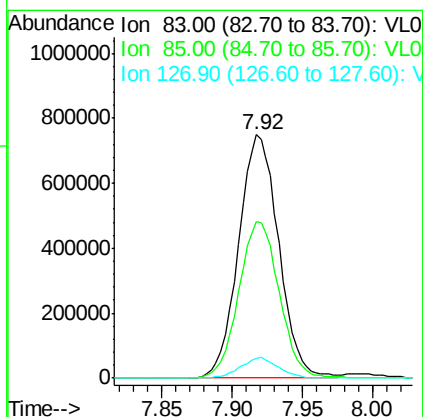
RT: 7.92 min Scan# 1549

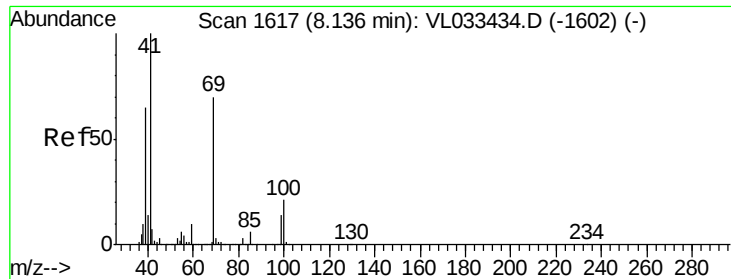
Delta R.T. -0.00 min

Lab File: VL033565.D

Acq: 10 Apr 2019 15:25

Tgt Ion:	83	Resp:	1490917
Ion Ratio		Lower	Upper
83	100		
85	64.4	50.7	76.1
127	7.8	6.6	9.8





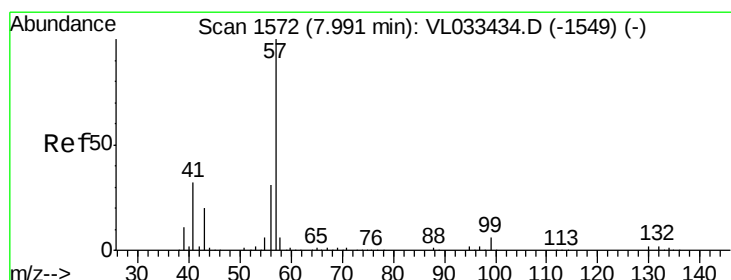
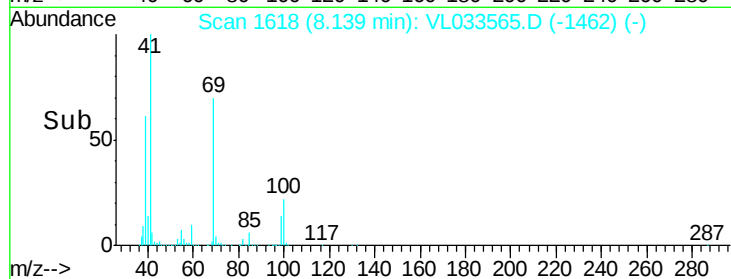
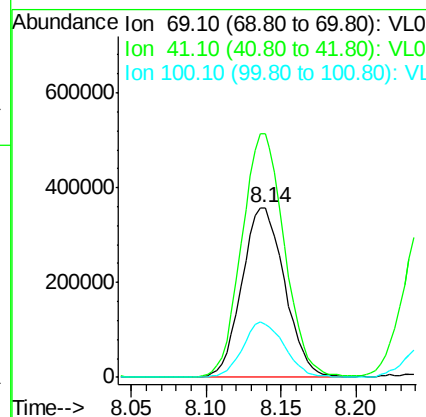
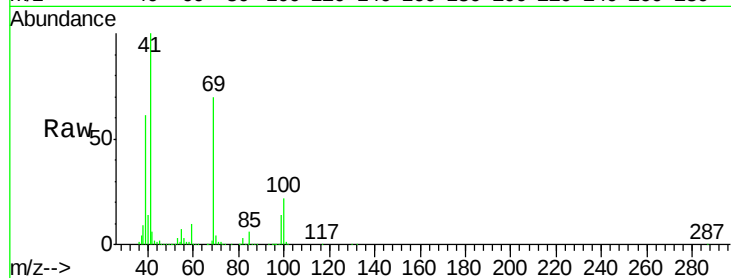
#43
Methvl Methacrylate
Concen: 8.398 ppbv
RT: 8.14 min Scan# 1618
Delta R.T. 0.00 min
Lab File: VL033565.D
Acq: 10 Apr 2019 15:25

Instrument :
MSVOA_L
ClientSampleId :
VL0410ABS01

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	142.9	116.6	174.8	
100	31.9	24.4	36.6	

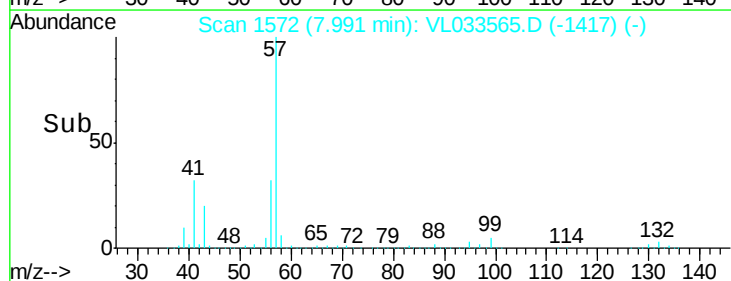
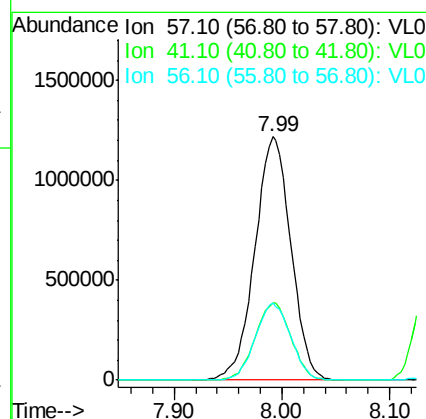
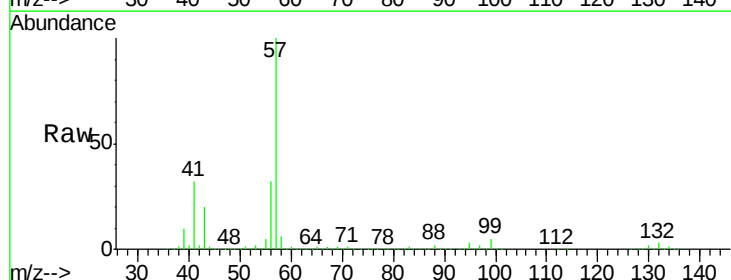
Manual Integrations
APPROVED

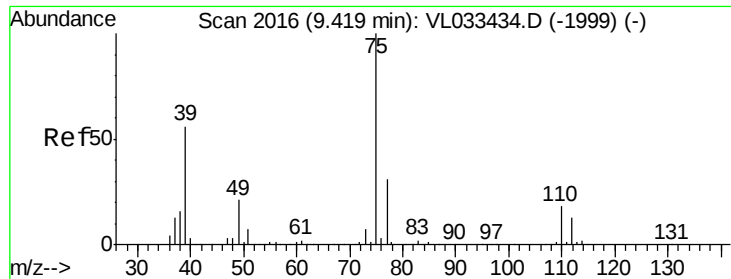
MMDadoda
4/11/2019 1:01:05 PM



#44
2,2,4-Trimethylpentane
Concen: 7.722 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. -0.00 min
Lab File: VL033565.D
Acq: 10 Apr 2019 15:25

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	31.5	26.0	39.0	
56	31.1	24.6	37.0	





#45

t-1,3-Dichloropropene

Concen: 9.289 ppbv

RT: 9.42 min Scan# 2016

Delta R.T. -0.00 min

Lab File: VL033565.D

Acq: 10 Apr 2019 15:25

Instrument :

MSVOA_L

ClientSampleId :

VL0410ABS01

Tot Ion: 75 Resp: 967158

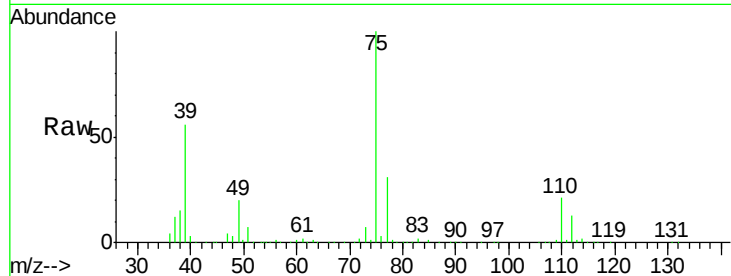
Ion Ratio Lower Upper

75 100

77 31.2 24.5 36.7

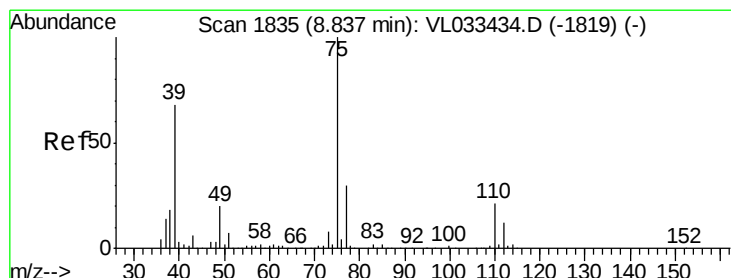
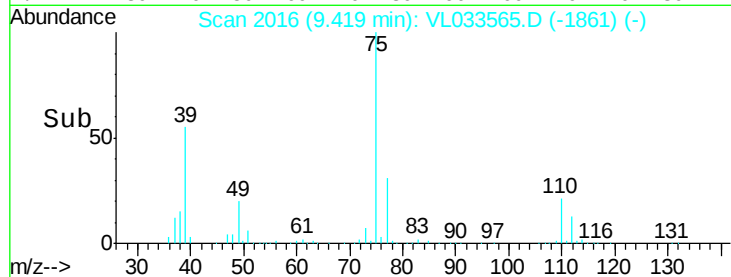
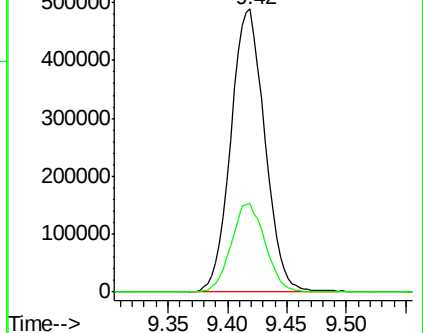
Manual Integrations
APPROVED

MMDadoda
4/11/2019 1:01:05 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: 8.882 ppbv

RT: 8.84 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VL033565.D

Acq: 10 Apr 2019 15:25

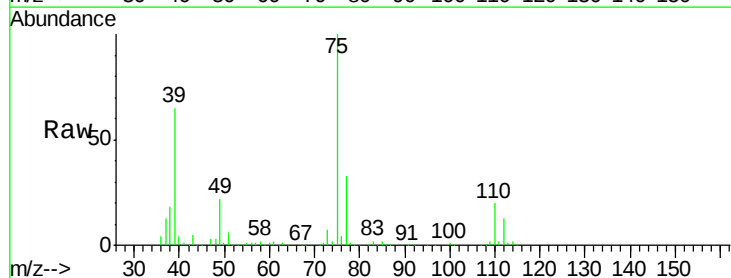
Tgt Ion: 75 Resp: 1079955

Ion Ratio Lower Upper

75 100

39 64.9 54.1 81.1

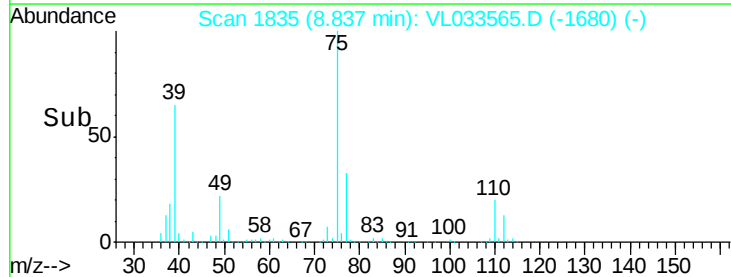
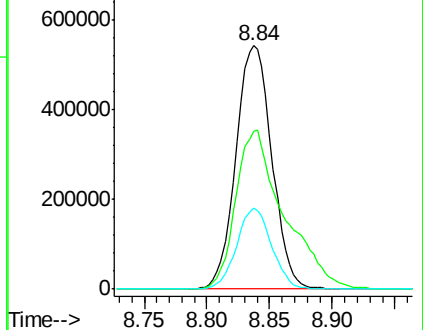
77 33.5 23.9 35.9

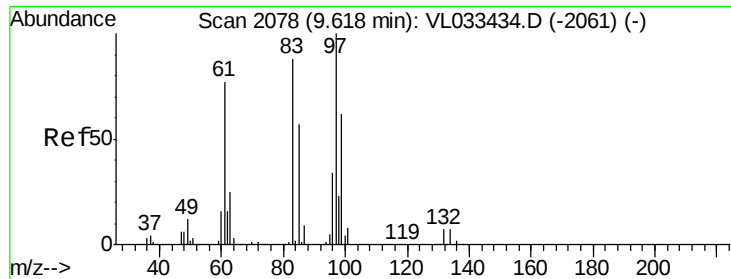


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





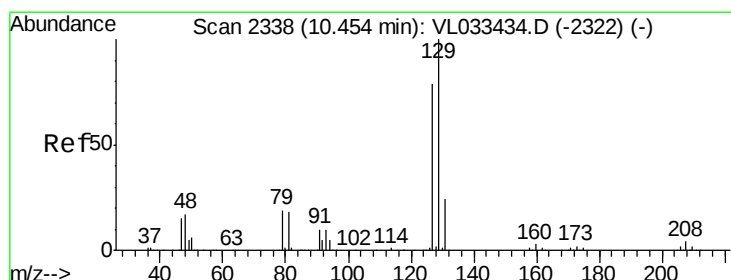
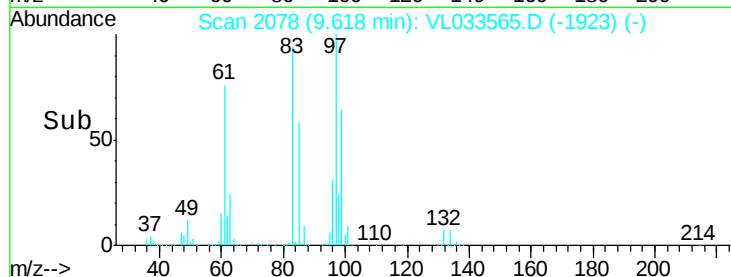
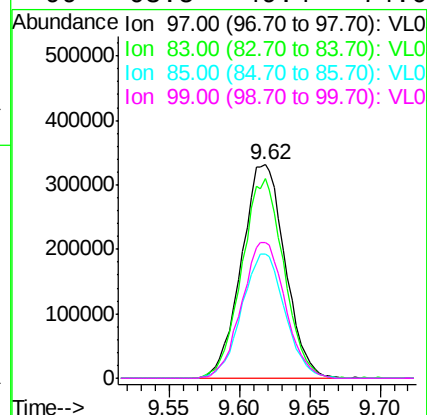
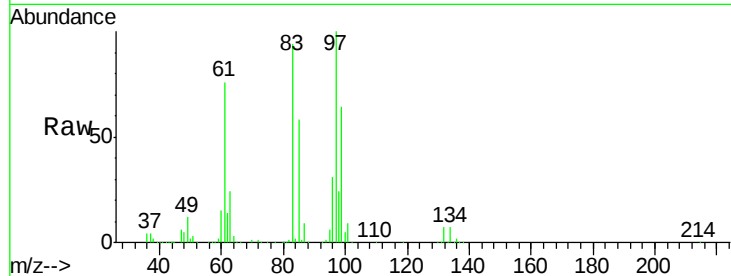
#47
 1,1,2-Trichloroethane
 Concen: 7.724 ppbv
 RT: 9.62 min Scan# 2078
 Delta R.T. -0.00 min
 Lab File: VL033565.D
 Acq: 10 Apr 2019 15:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0410ABS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	93.4	70.5	105.7
85	57.6	45.6	68.4
99	63.5	49.4	74.0

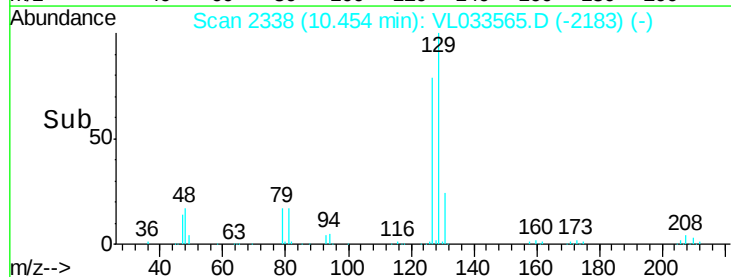
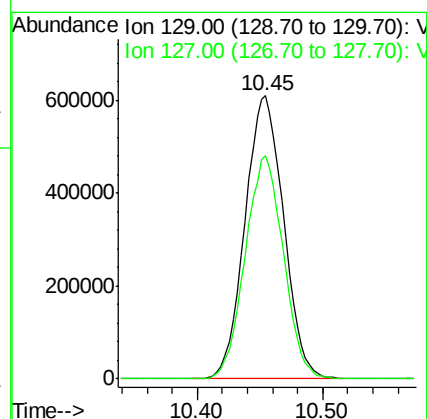
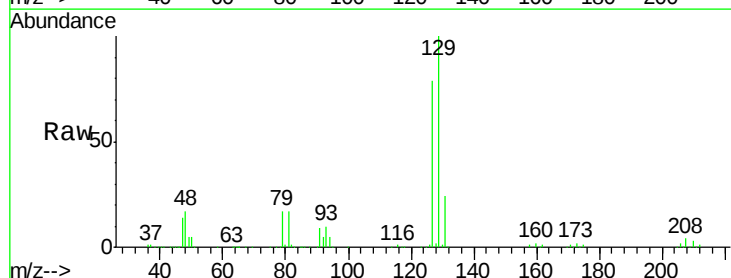
Manual Integrations
 APPROVED

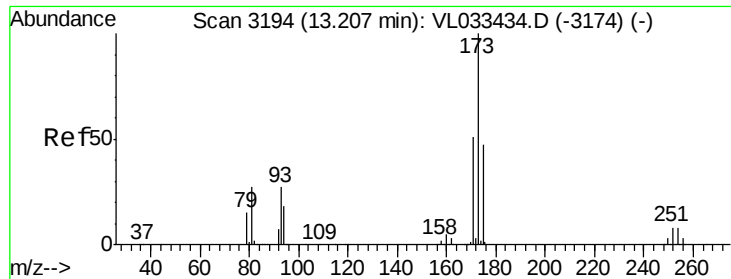
MMDadoda
 4/11/2019 1:01:05 PM



#48
 Dibromochloromethane
 Concen: 8.324 ppbv
 RT: 10.45 min Scan# 2338
 Delta R.T. -0.00 min
 Lab File: VL033565.D
 Acq: 10 Apr 2019 15:25

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.2	39.1	117.2





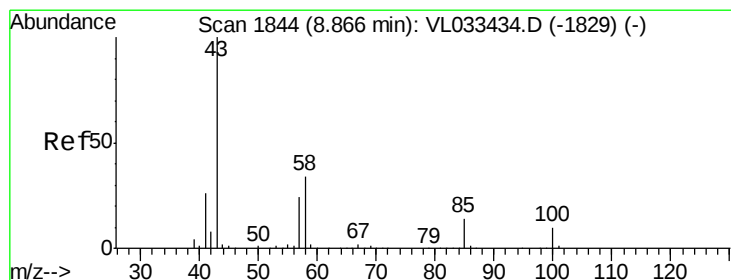
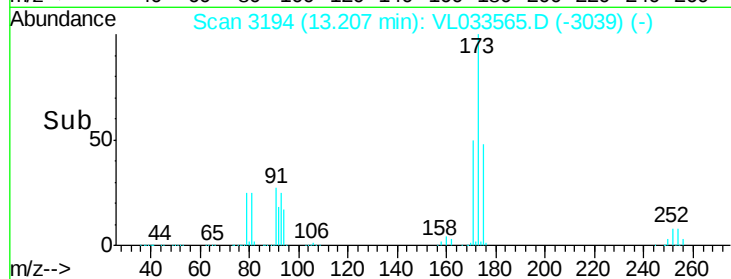
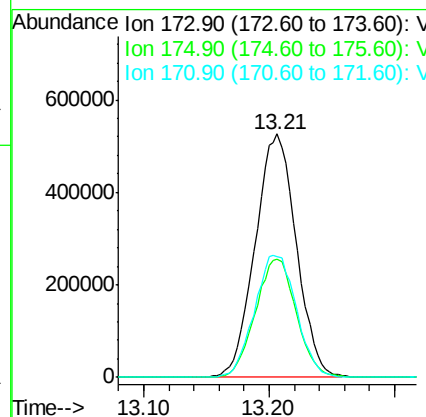
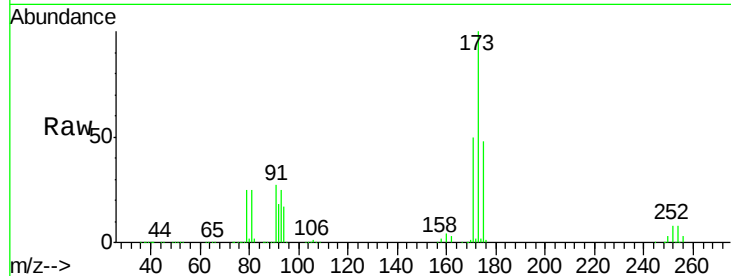
#49
Bromoform
Concen: 7.999 ppbv
RT: 13.21 min Scan# 3194
Delta R.T. -0.00 min
Lab File: VL033565.D
Acq: 10 Apr 2019 15:25

Instrument :
MSVOA_L
ClientSampleId :
VL0410ABS01

Tot Ion:173 Resp: 1197459
Ion Ratio Lower Upper
173 100
175 48.6 39.3 58.9
171 51.3 41.2 61.8

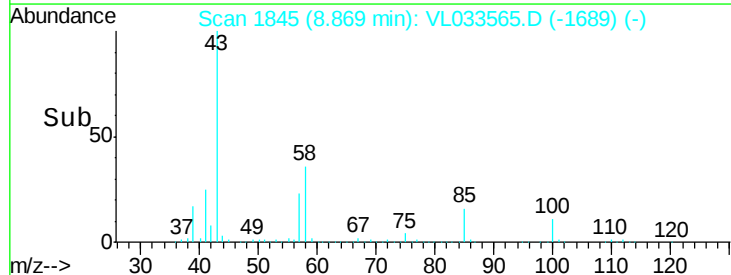
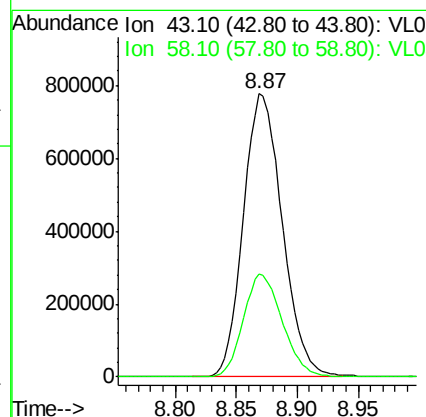
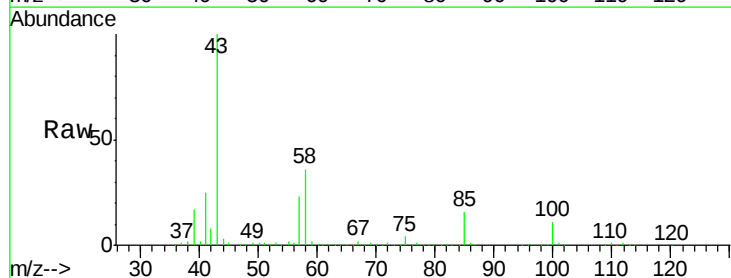
Manual Integrations
APPROVED

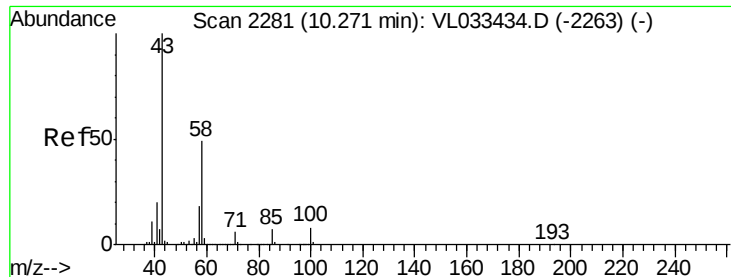
MMDadoda
4/11/2019 1:01:05 PM



#50
4-Methyl-2-Pentanone
Concen: 7.828 ppbv
RT: 8.87 min Scan# 1845
Delta R.T. 0.00 min
Lab File: VL033565.D
Acq: 10 Apr 2019 15:25

Tgt Ion: 43 Resp: 1714163
Ion Ratio Lower Upper
43 100
58 36.4 28.0 42.0





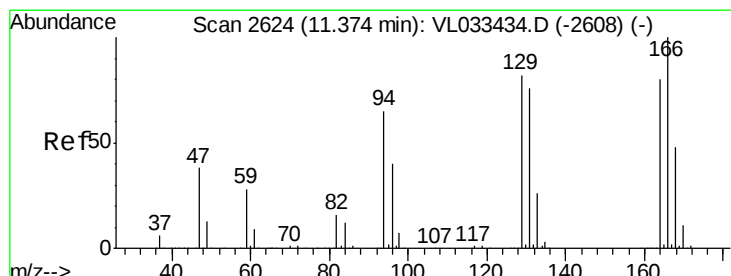
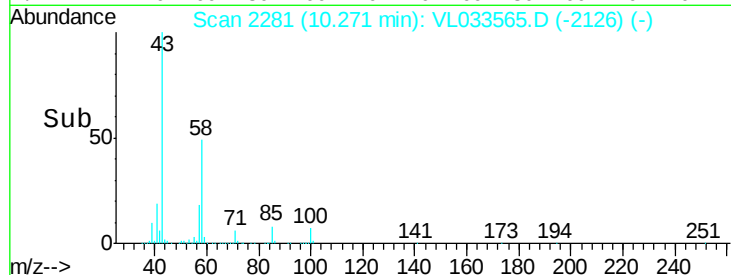
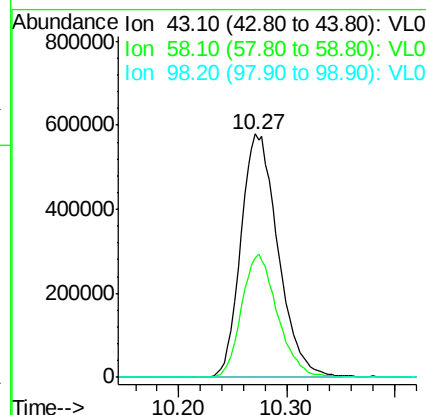
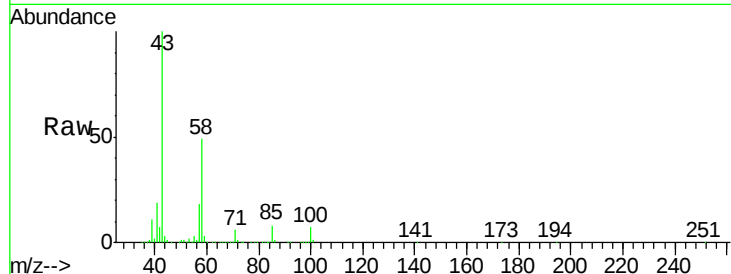
#51
2-Hexanone
Concen: 8.511 ppbv
RT: 10.27 min Scan# 2281
Delta R.T. -0.00 min
Lab File: VL033565.D
Acq: 10 Apr 2019 15:25

Instrument :
MSVOA_L
ClientSampleId :
VL0410ABS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	48.9	38.2	57.2
98	0.2	0.2	0.2

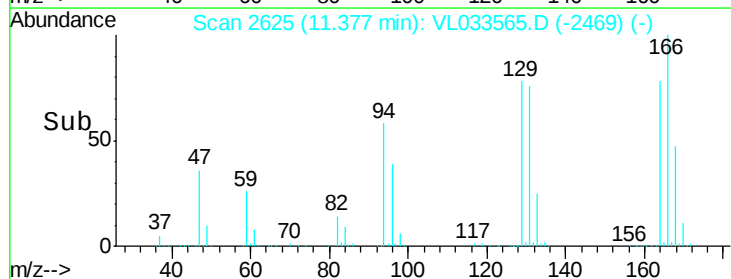
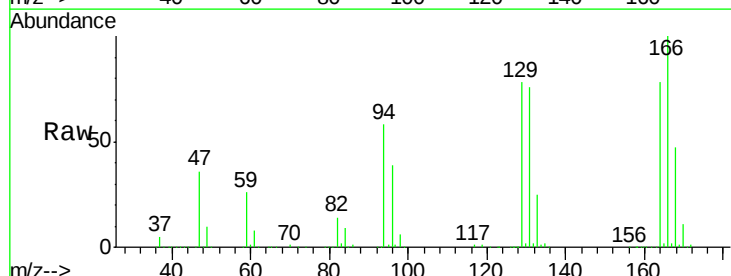
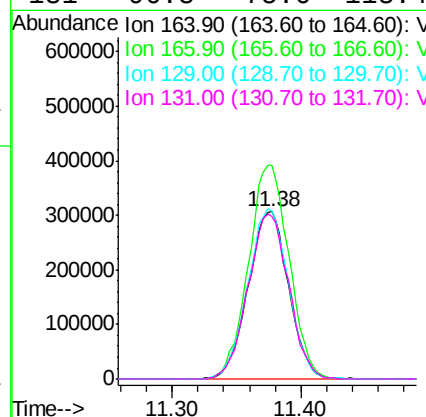
Manual Integrations
APPROVED

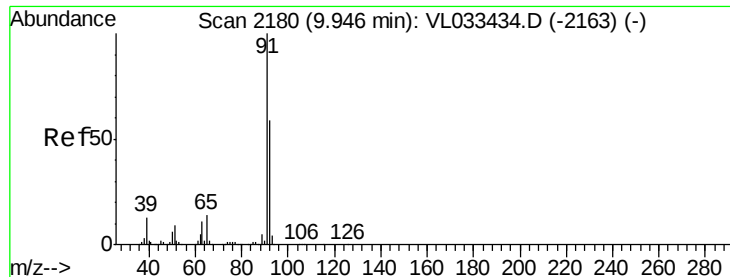
MMDadoda
4/11/2019 1:01:05 PM



#52
Tetrachloroethene
Concen: 8.480 ppbv
RT: 11.38 min Scan# 2625
Delta R.T. 0.00 min
Lab File: VL033565.D
Acq: 10 Apr 2019 15:25

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.5	99.5	149.3
129	100.1	81.4	122.2
131	96.8	75.6	113.4





#53

Toluene

Concen: 8.689 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.00 min

Lab File: VL033565.D

Acq: 10 Apr 2019 15:25

Instrument :

MSVOA_L

ClientSampleId :

VL0410ABS01

Tot Ion: 91 Resp: 2108843

Ion Ratio Lower Upper

91 100

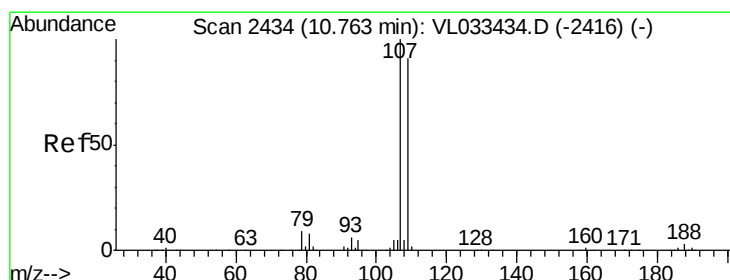
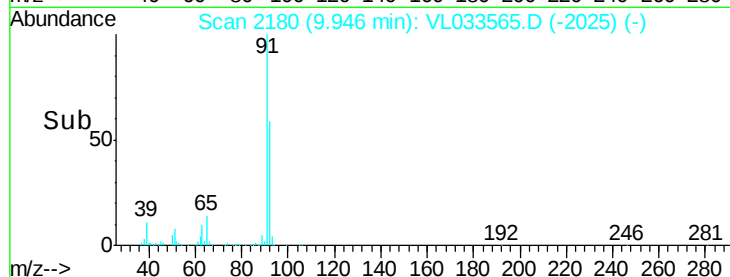
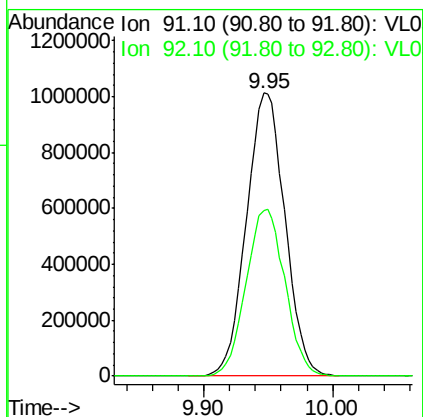
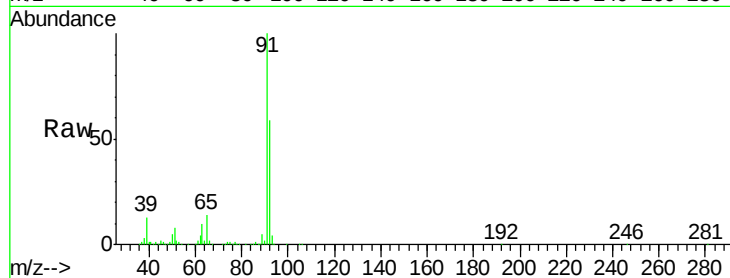
92 59.5 47.4 71.0

Manual Integrations

APPROVED

MMDadoda

4/11/2019 1:01:05 PM



#54

1,2-Dibromoethane

Concen: 7.993 ppbv

RT: 10.76 min Scan# 2434

Delta R.T. -0.00 min

Lab File: VL033565.D

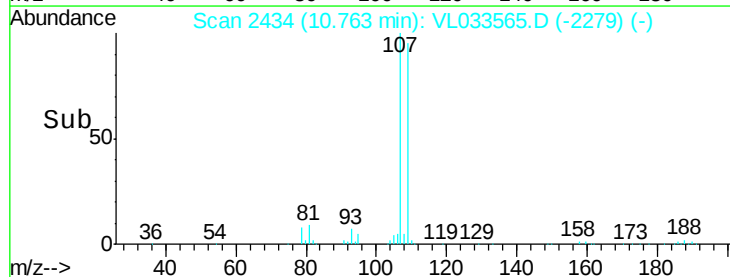
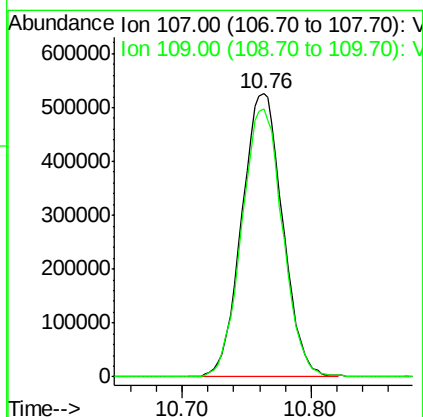
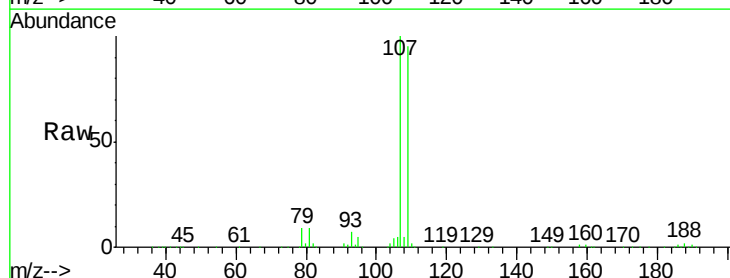
Acq: 10 Apr 2019 15:25

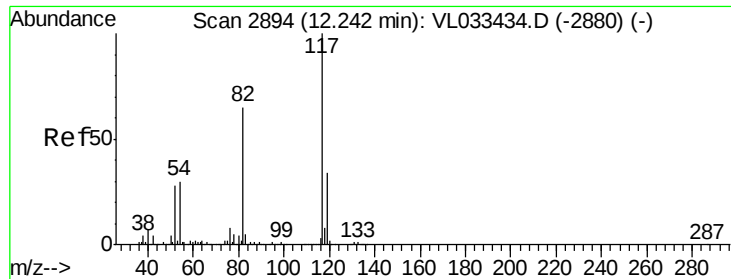
Tgt Ion: 107 Resp: 1161514

Ion Ratio Lower Upper

107 100

109 94.6 72.7 109.1





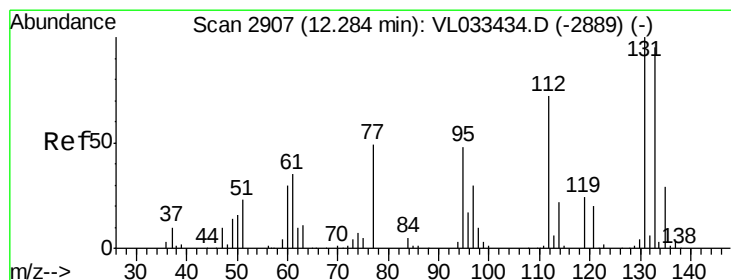
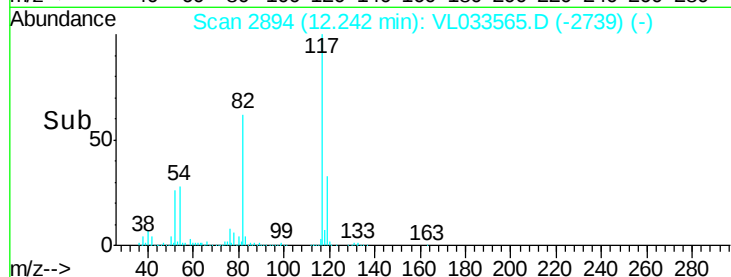
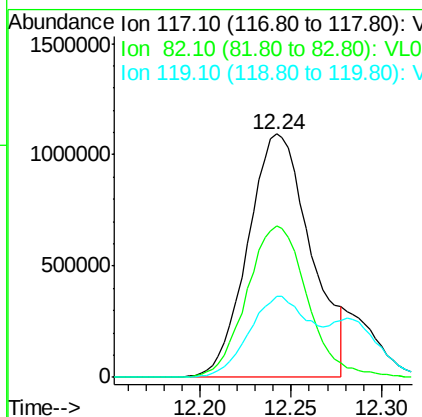
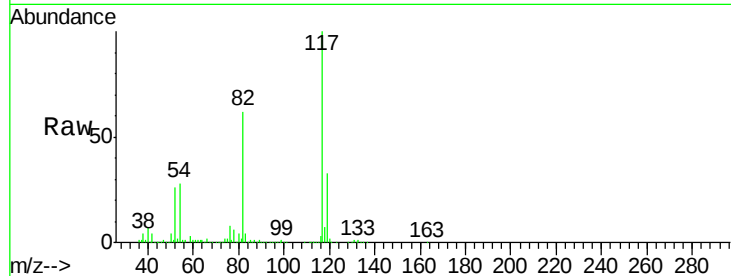
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.24 min Scan# 2894
Delta R.T. -0.00 min
Lab File: VL033565.D
Acq: 10 Apr 2019 15:25

Instrument :
MSVOA_L
ClientSampled :
VL0410ABS01

Tot Ion:117 Resp: 2631497
Ion Ratio Lower Upper
117 100
82 60.3 51.5 77.3
119 51.3 25.5 38.3#

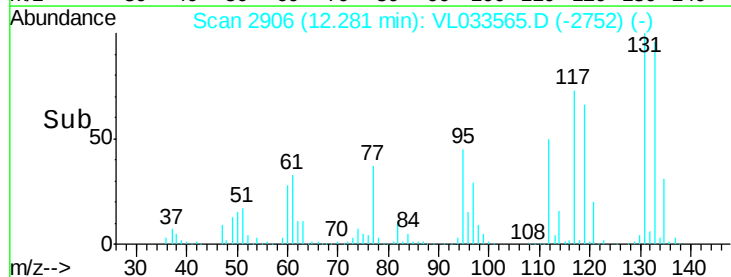
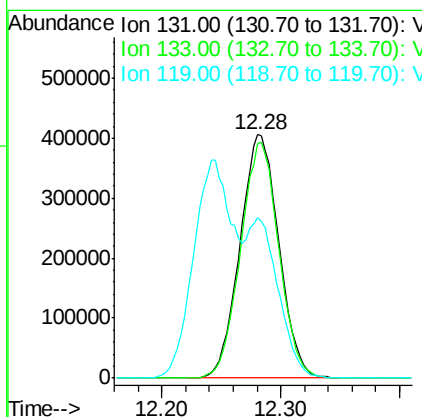
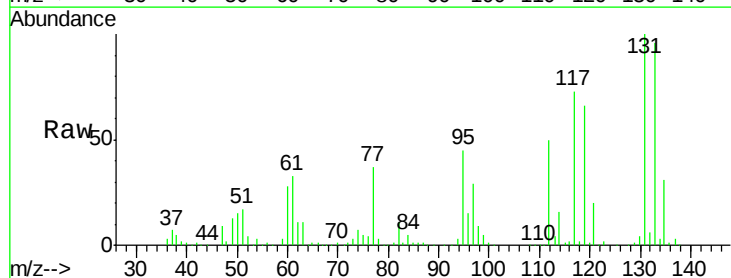
Manual Integrations
APPROVED

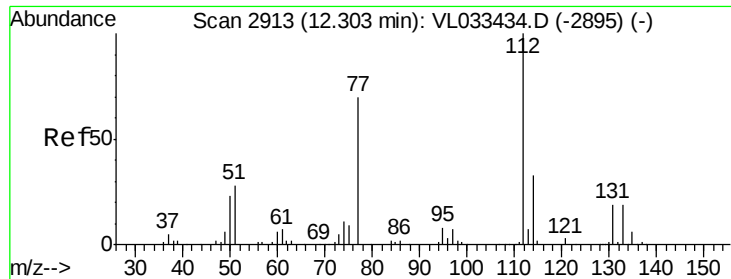
MMDadoda
4/11/2019 1:01:05 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 7.610 ppbv
RT: 12.28 min Scan# 2906
Delta R.T. -0.00 min
Lab File: VL033565.D
Acq: 10 Apr 2019 15:25

Tgt Ion:131 Resp: 917762
Ion Ratio Lower Upper
131 100
133 95.4 76.2 114.4
119 147.2 45.0 67.6#





#57

Chlorobenzene

Concen: 7.643 ppbv

RT: 12.30 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VL033565.D

Acq: 10 Apr 2019 15:25

Instrument :

MSVOA_L

ClientSampleId :

VL0410ABS01

Tot Ion:112 Resp: 1561697

Ion Ratio Lower Upper

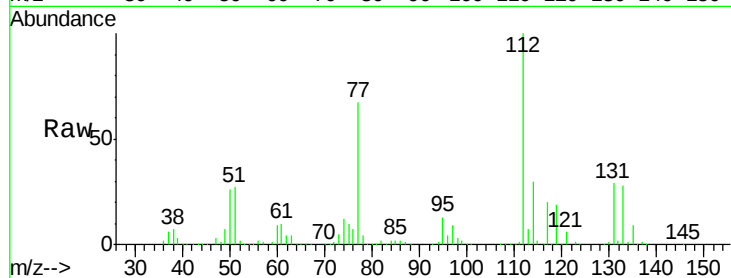
112 100

77 67.1 57.3 85.9

114 30.3 29.8 36.4

Manual Integrations
APPROVED

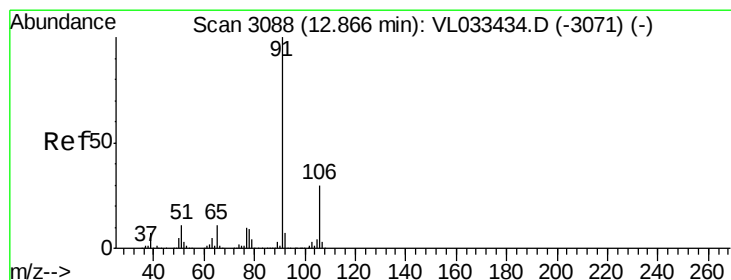
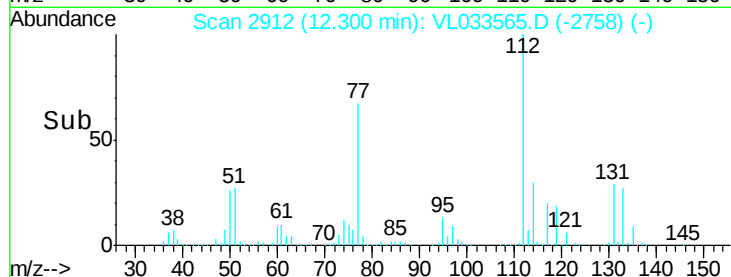
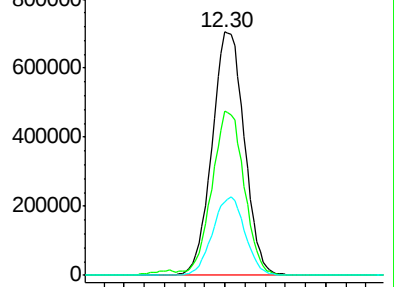
MMDadoda
4/11/2019 1:01:05 PM



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: 8.145 ppbv

RT: 12.87 min Scan# 3088

Delta R.T. -0.00 min

Lab File: VL033565.D

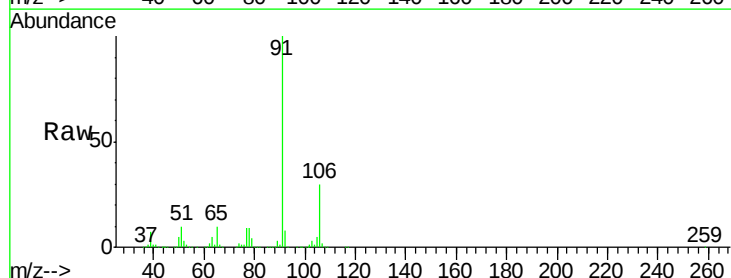
Acq: 10 Apr 2019 15:25

Tgt Ion: 91 Resp: 2862457

Ion Ratio Lower Upper

91 100

106 30.1 23.8 35.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

Ion 259.10 (258.80 to 259.80): V

Ion 137.10 (136.80 to 137.80): V

Ion 151.10 (150.80 to 151.80): V

Ion 165.10 (164.80 to 165.80): V

Ion 179.10 (178.80 to 179.80): V

Ion 193.10 (192.80 to 193.80): V

Ion 207.10 (206.80 to 207.80): V

Ion 221.10 (220.80 to 221.80): V

Ion 235.10 (234.80 to 235.80): V

Ion 249.10 (248.80 to 249.80): V

Ion 263.10 (262.80 to 263.80): V

Ion 277.10 (276.80 to 277.80): V

Ion 291.10 (290.80 to 291.80): V

Ion 305.10 (304.80 to 305.80): V

Ion 319.10 (318.80 to 319.80): V

Ion 333.10 (332.80 to 333.80): V

Ion 347.10 (346.80 to 347.80): V

Ion 361.10 (360.80 to 361.80): V

Ion 375.10 (374.80 to 375.80): V

Ion 389.10 (388.80 to 389.80): V

Ion 403.10 (402.80 to 403.80): V

Ion 417.10 (416.80 to 417.80): V

Ion 431.10 (430.80 to 431.80): V

Ion 445.10 (444.80 to 445.80): V

Ion 459.10 (458.80 to 459.80): V

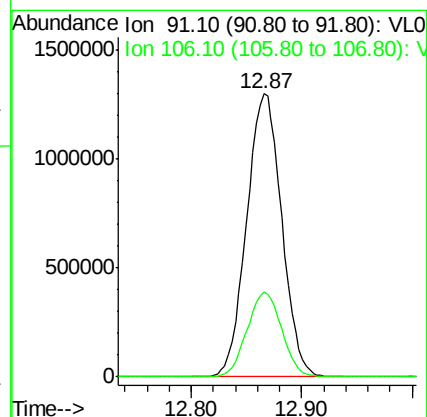
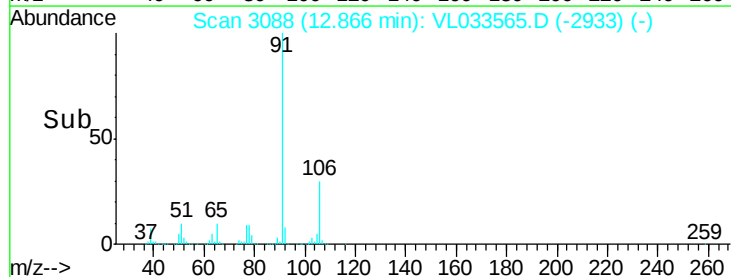
Ion 473.10 (472.80 to 473.80): V

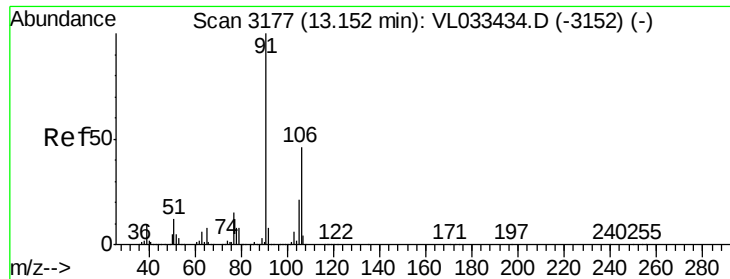
Ion 487.10 (486.80 to 487.80): V

Ion 501.10 (500.80 to 501.80): V

Ion 515.10 (514.80 to 515.80): V

Ion 529.10 (528.80 to 529.80): V





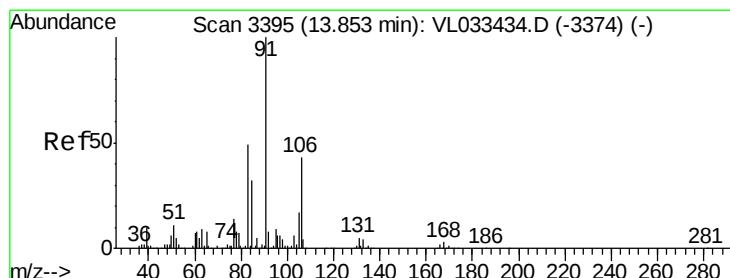
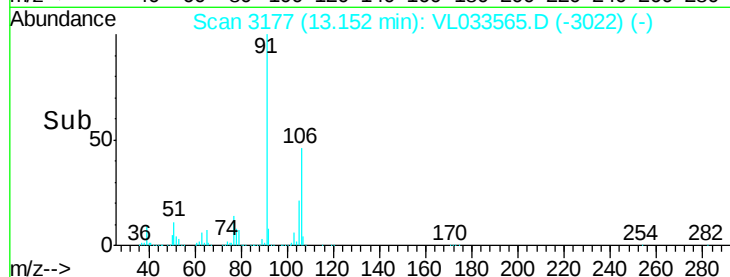
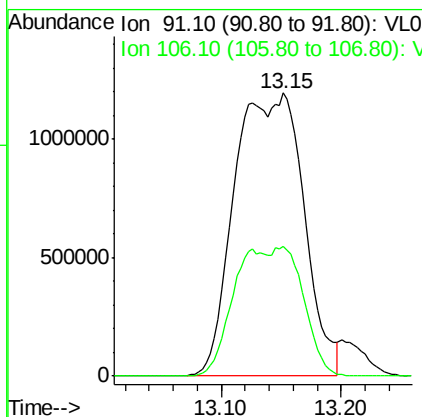
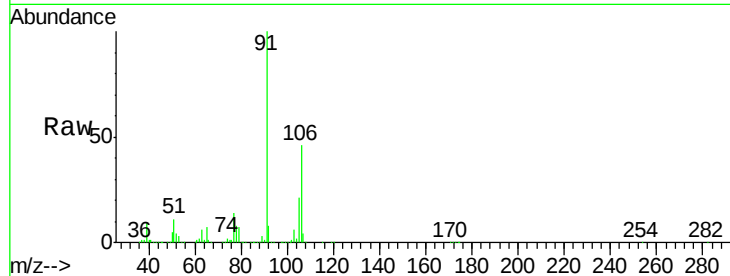
#59
m/p-Xylene
Concen: 15.285 ppbv m
RT: 13.15 min Scan# 3177
Delta R.T. -0.00 min
Lab File: VL033565.D
Acq: 10 Apr 2019 15:25

Instrument :
MSVOA_L
ClientSampleId :
VL0410ABS01

Tot Ion: 91 Resp: 4797791
Ion Ratio Lower Upper
91 100
106 45.2 0.0 0.0#

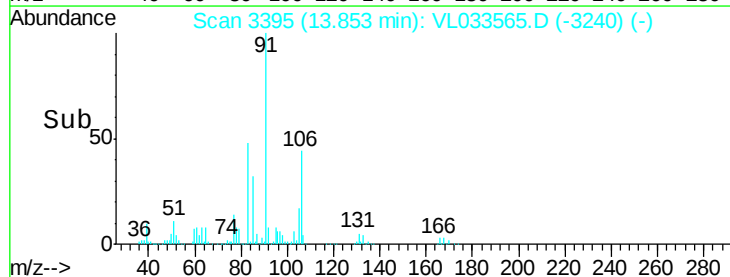
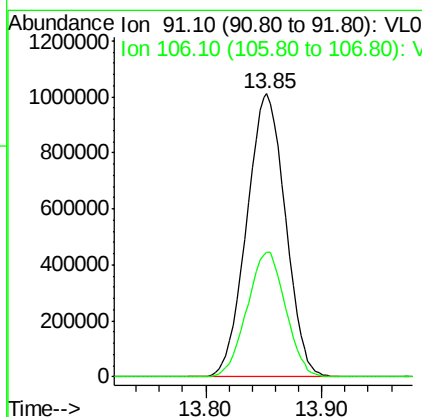
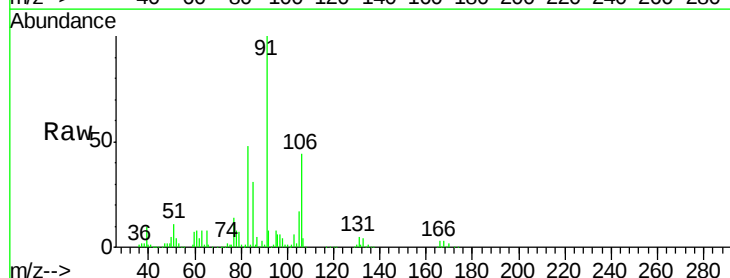
Manual Integrations
APPROVED

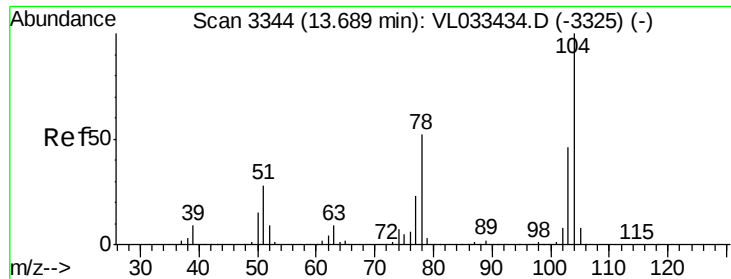
MMDadoda
4/11/2019 1:01:05 PM



#60
o-Xylene
Concen: 7.741 ppbv
RT: 13.85 min Scan# 3395
Delta R.T. -0.00 min
Lab File: VL033565.D
Acq: 10 Apr 2019 15:25

Tgt Ion: 91 Resp: 2349502
Ion Ratio Lower Upper
91 100
106 44.0 21.4 64.3





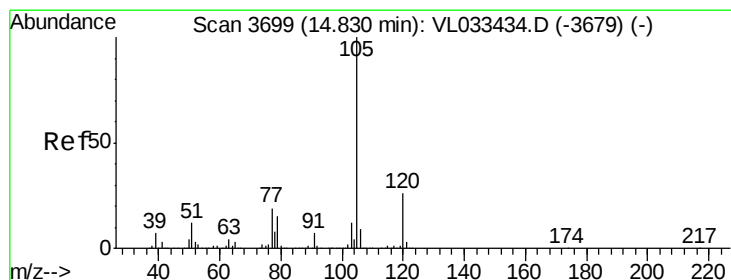
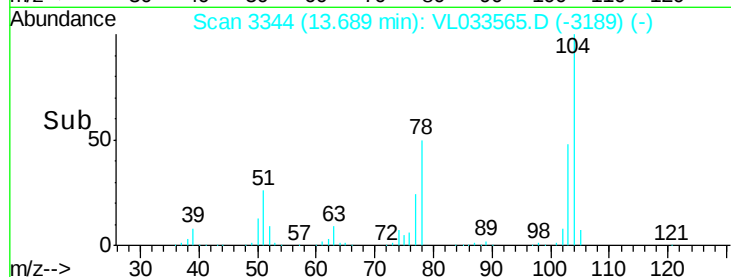
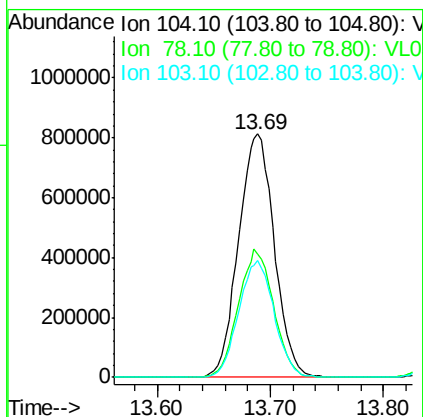
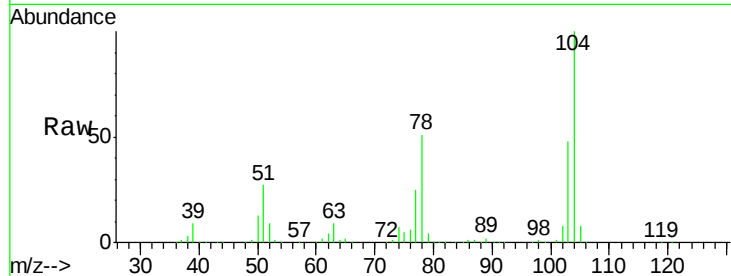
#61
Stvrene
Concen: 8.583 ppbv
RT: 13.69 min Scan# 3344
Delta R.T. -0.00 min
Lab File: VL033565.D
Acq: 10 Apr 2019 15:25

Instrument :
MSVOA_L
ClientSampled :
VL0410ABS01

Tot Ion:104 Resp: 1788071
Ion Ratio Lower Upper
104 100
78 51.9 43.2 64.8
103 47.6 37.8 56.8

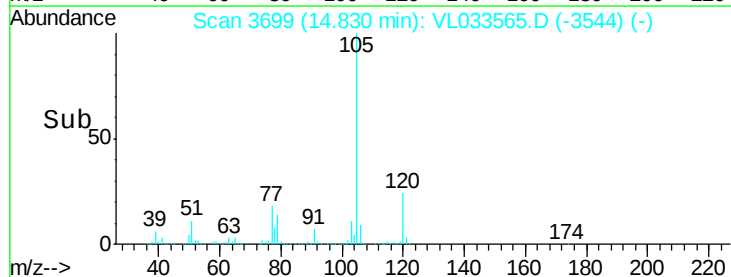
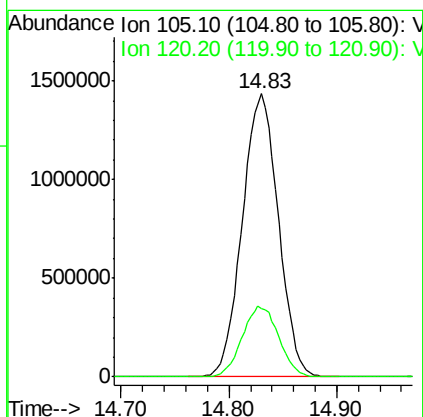
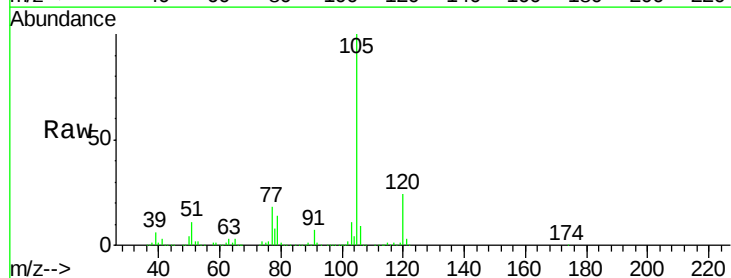
Manual Integrations
APPROVED

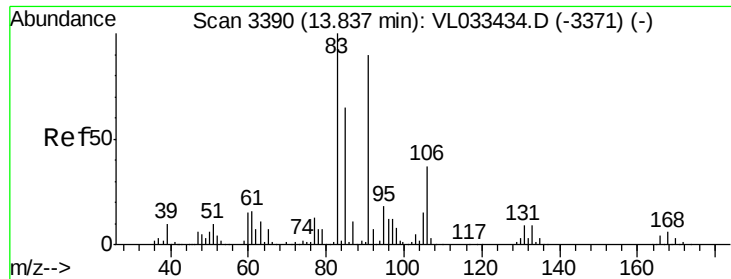
MMDadoda
4/11/2019 1:01:05 PM



#62
Isopropylbenzene
Concen: 7.739 ppbv
RT: 14.83 min Scan# 3699
Delta R.T. -0.00 min
Lab File: VL033565.D
Acq: 10 Apr 2019 15:25

Tgt Ion:105 Resp: 3326648
Ion Ratio Lower Upper
105 100
120 25.3 20.2 30.2





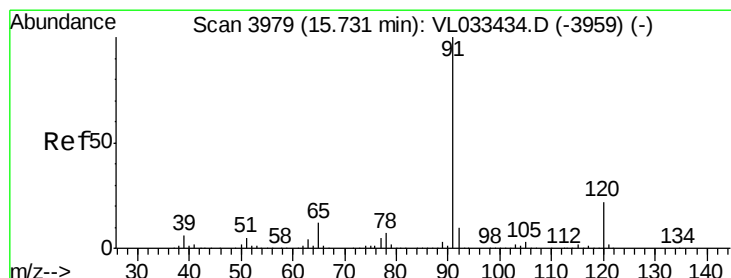
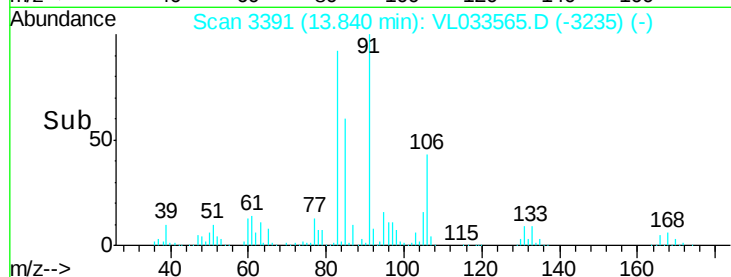
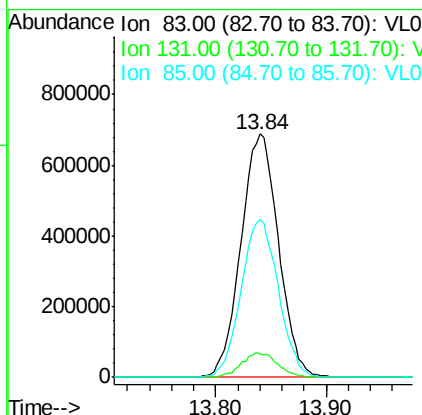
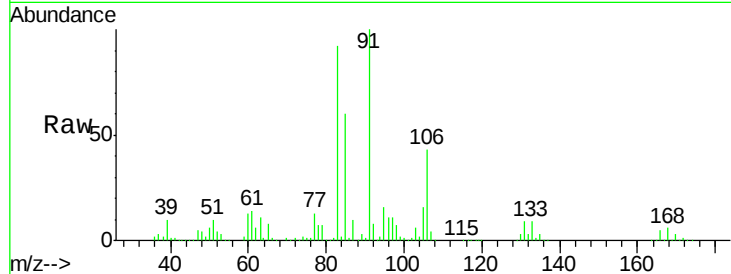
#63
 1,1,2,2-Tetrachloroethane
 Concen: 7.279 ppbv
 RT: 13.84 min Scan# 3391
 Delta R.T. 0.00 min
 Lab File: VL033565.D
 Acq: 10 Apr 2019 15:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0410ABS01

Tot Ion: 83 Resp: 1626800
 Ion Ratio Lower Upper
 83 100
 131 9.7 4.7 14.0
 85 64.5 32.7 98.1

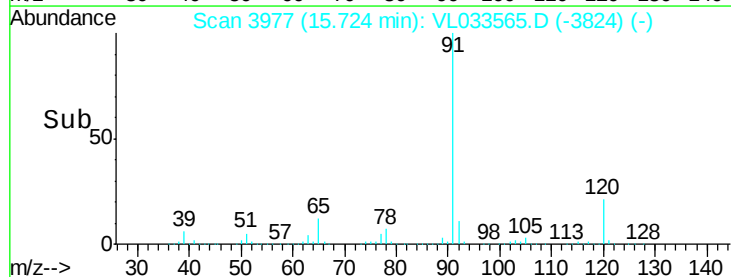
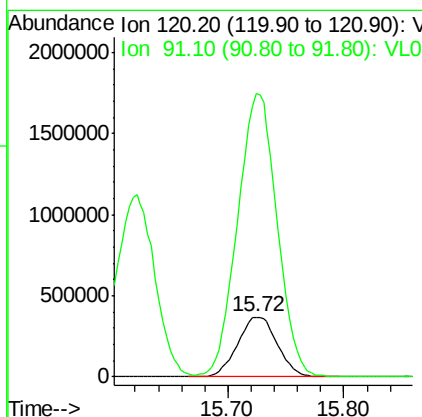
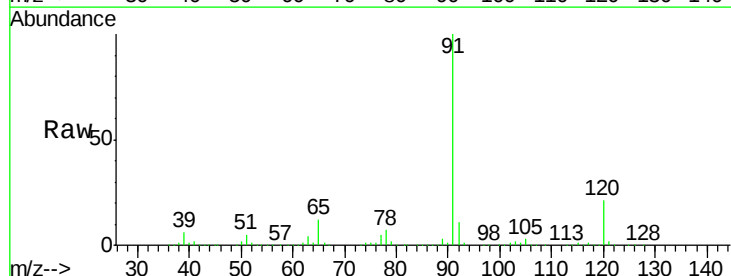
Manual Integrations
 APPROVED

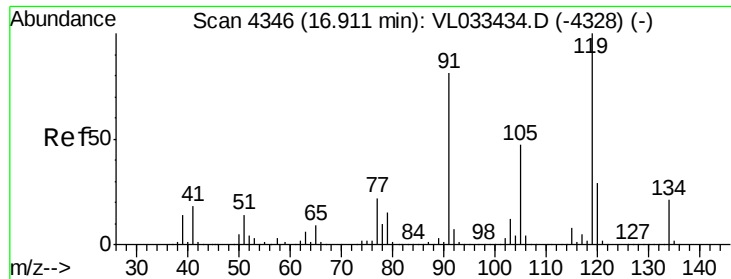
MMDadoda
 4/11/2019 1:01:05 PM



#64
 n-propylbenzene
 Concen: 8.031 ppbv
 RT: 15.72 min Scan# 3977
 Delta R.T. -0.01 min
 Lab File: VL033565.D
 Acq: 10 Apr 2019 15:25

Tgt Ion:120 Resp: 875929
 Ion Ratio Lower Upper
 120 100
 91 471.6 387.4 581.2





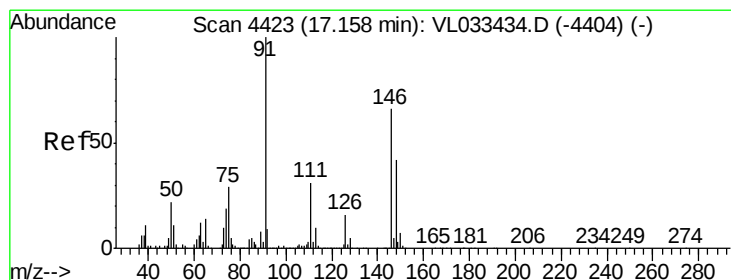
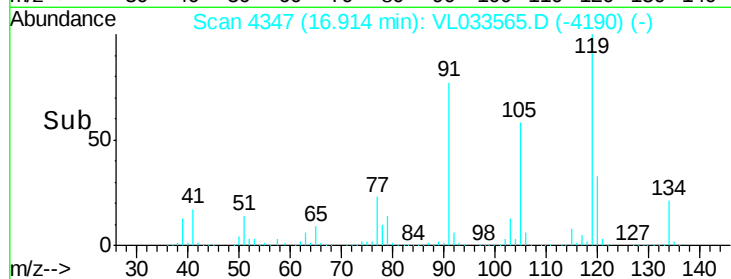
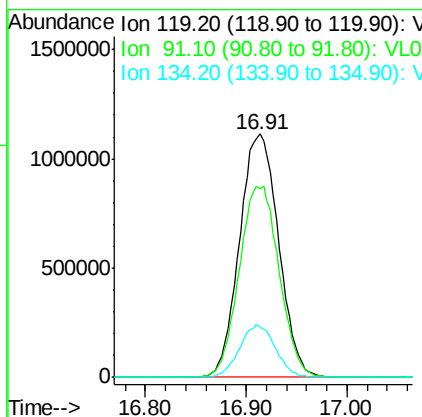
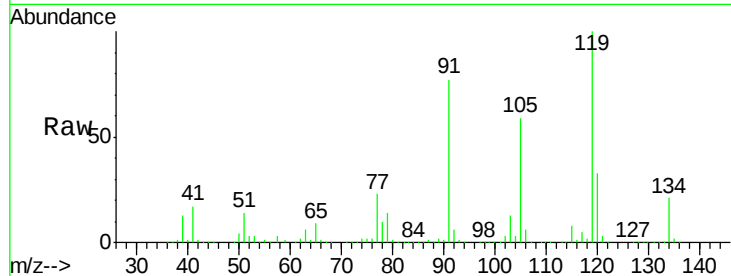
#65
 tert-Butylbenzene
 Concen: 7.895 ppbv
 RT: 16.91 min Scan# 4347
 Delta R.T. 0.00 min
 Lab File: VL033565.D
 Acq: 10 Apr 2019 15:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0410ABS01

Tot Ion: 119 Resp: 2990459
 Ion Ratio Lower Upper
 119 100
 91 80.3 66.4 99.6
 134 19.7 15.5 23.3

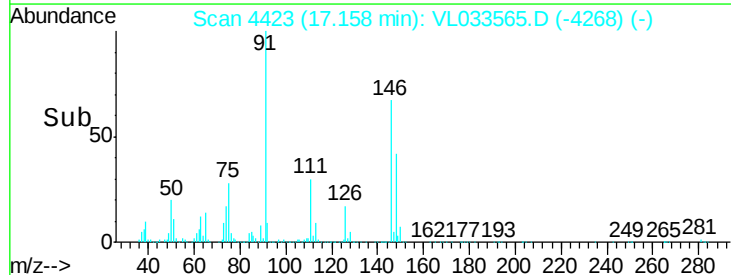
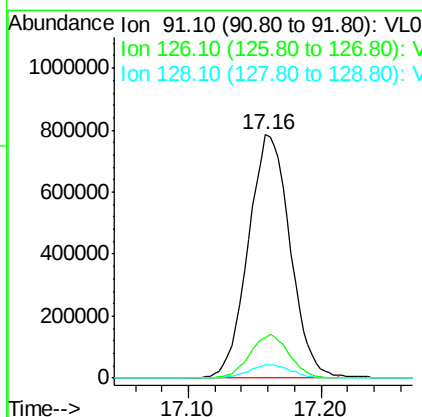
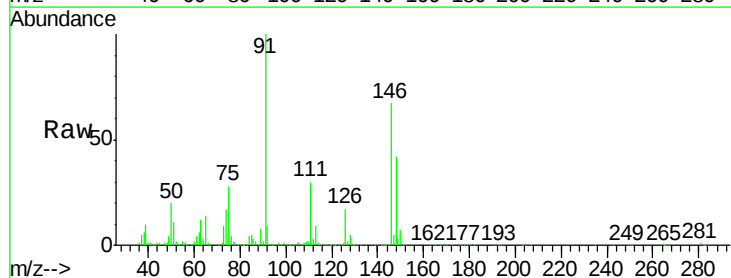
Manual Integrations
 APPROVED

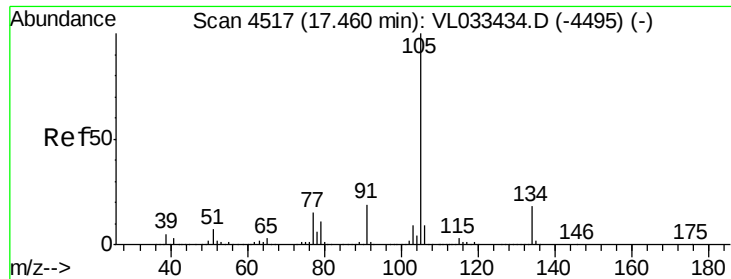
MMDadoda
 4/11/2019 1:01:05 PM



#66
 Benzyl Chloride
 Concen: 9.754 ppbv
 RT: 17.16 min Scan# 4423
 Delta R.T. -0.00 min
 Lab File: VL033565.D
 Acq: 10 Apr 2019 15:25

Tgt Ion: 91 Resp: 1717830
 Ion Ratio Lower Upper
 91 100
 126 17.0 13.0 19.6
 128 5.4 4.2 6.2





#67

sec-Butylbenzene

Concen: 7.839 ppbv

RT: 17.46 min Scan# 4517

Delta R.T. -0.00 min

Lab File: VL033565.D

Acq: 10 Apr 2019 15:25

Instrument :

MSVOA_L

ClientSampleId :

VL0410ABS01

Tot Ion: 105 Resp: 4222457

Ion Ratio Lower Upper

105 100

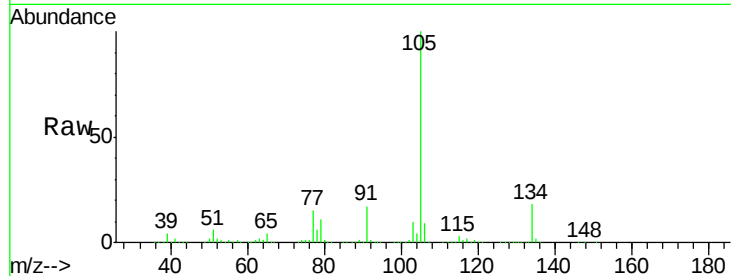
134 18.1 14.6 21.8

Manual Integrations

APPROVED

MMDadoda

4/11/2019 1:01:05 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

2000000

1500000

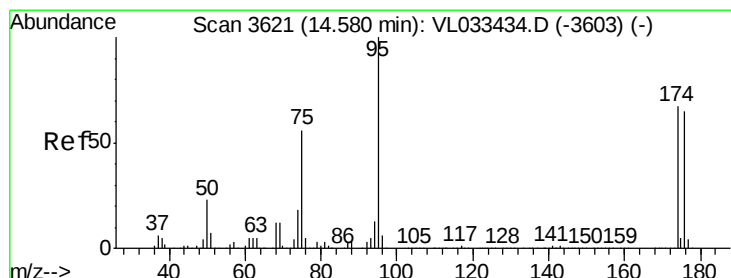
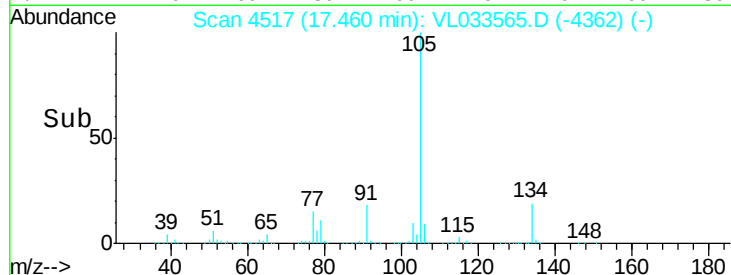
1000000

500000

0

17.40 17.50 17.60

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.320 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. -0.00 min

Lab File: VL033565.D

Acq: 10 Apr 2019 15:25

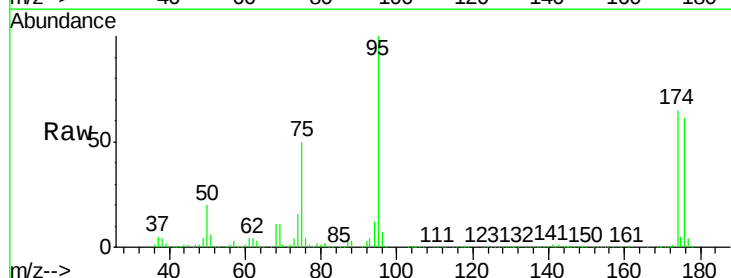
Tgt Ion: 95 Resp: 1922807

Ion Ratio Lower Upper

95 100

174 69.0 52.9 79.3

175 5.0 3.8 5.6



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

1200000

1000000

800000

600000

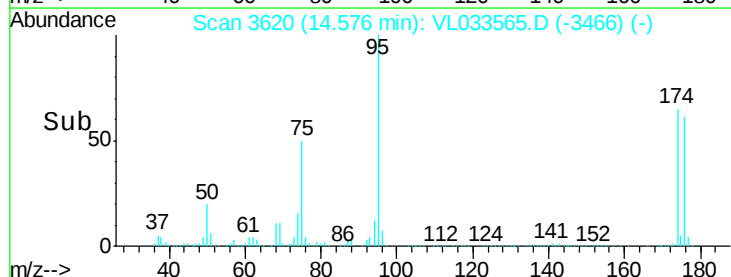
400000

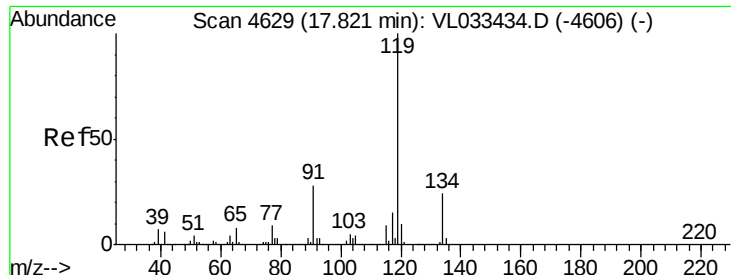
200000

0

14.50 14.60

Time-->





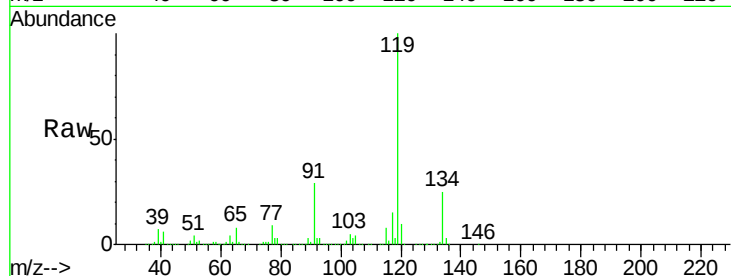
#69
 p-Isopropyltoluene
 Concen: 8.055 ppbv
 RT: 17.82 min Scan# 4629
 Delta R.T. -0.00 min
 Lab File: VL033565.D
 Acq: 10 Apr 2019 15:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0410ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.1	19.9	29.9
91	28.5	23.4	35.0

Manual Integrations
 APPROVED

MMDadoda
 4/11/2019 1:01:05 PM

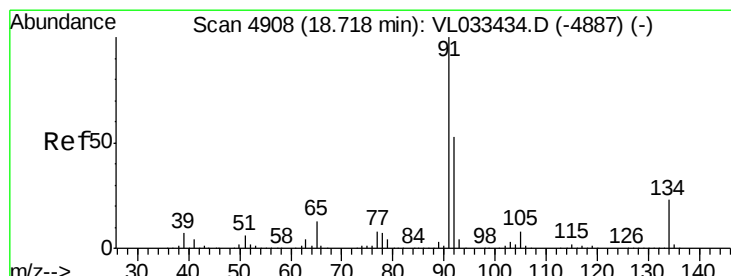
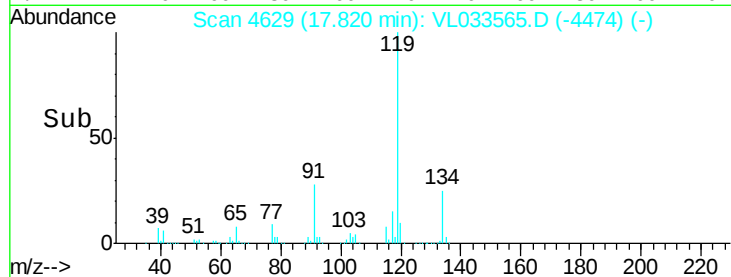
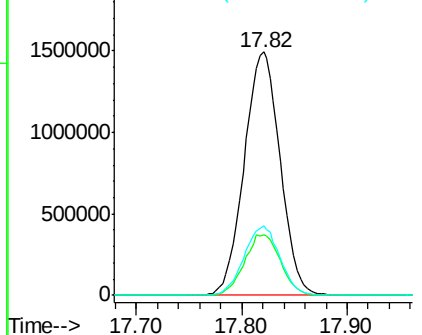


Abundance

Ion 119.10 (118.80 to 119.80): V

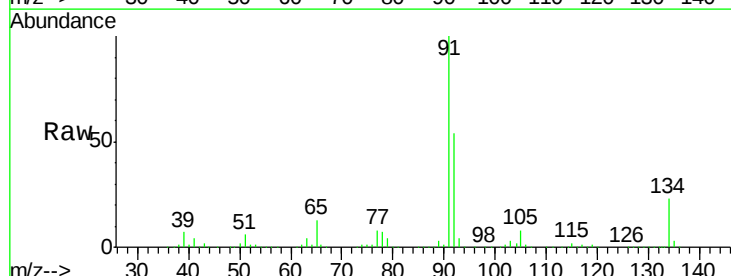
Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70
 n-Butylbenzene
 Concen: 7.835 ppbv
 RT: 18.72 min Scan# 4908
 Delta R.T. -0.00 min
 Lab File: VL033565.D
 Acq: 10 Apr 2019 15:25

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.3	42.6	64.0
134	22.7	17.5	26.3

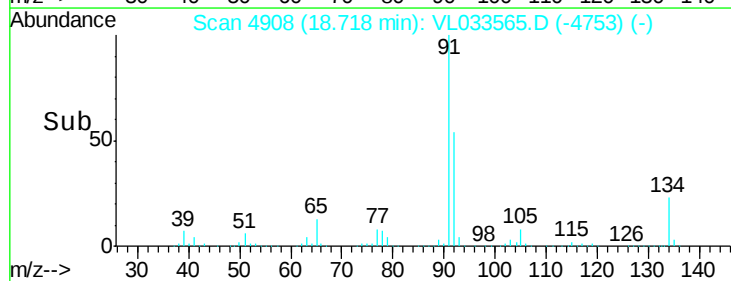
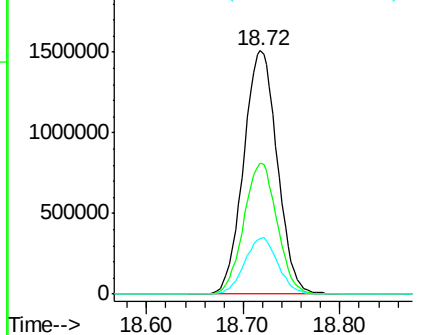


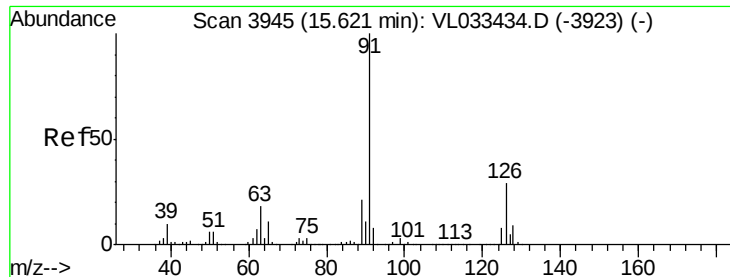
Abundance

Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 7.956 ppbv

RT: 15.62 min Scan# 3945

Delta R.T. -0.00 min

Lab File: VL033565.D

Acq: 10 Apr 2019 15:25

Instrument :

MSVOA_L

ClientSampleId :

VL0410ABS01

Tot Ion: 91 Resp: 2600330

Ion Ratio Lower Upper

91 100

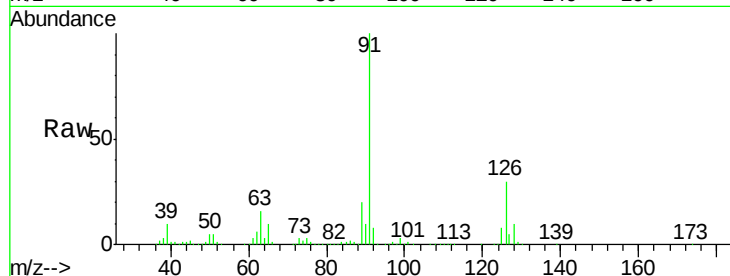
126 29.9 11.7 46.9

Manual Integrations

APPROVED

MMDadoda

4/11/2019 1:01:05 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

2000000

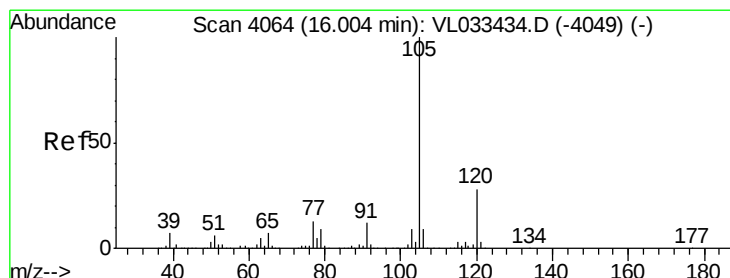
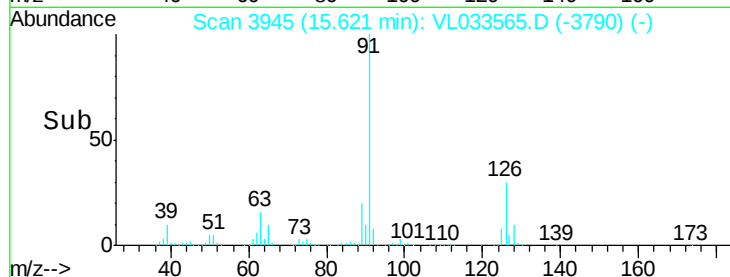
1500000

1000000

500000

0

Time--> 15.50 15.60 15.70



#72

4-Ethyltoluene

Concen: 8.216 ppbv

RT: 16.00 min Scan# 4064

Delta R.T. -0.00 min

Lab File: VL033565.D

Acq: 10 Apr 2019 15:25

Tgt Ion: 105 Resp: 2803156

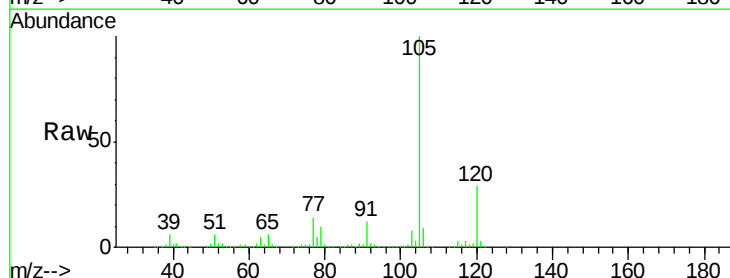
Ion Ratio Lower Upper

105 100

120 29.0 23.2 34.8

91 12.6 10.4 15.6

77 13.4 11.3 16.9



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

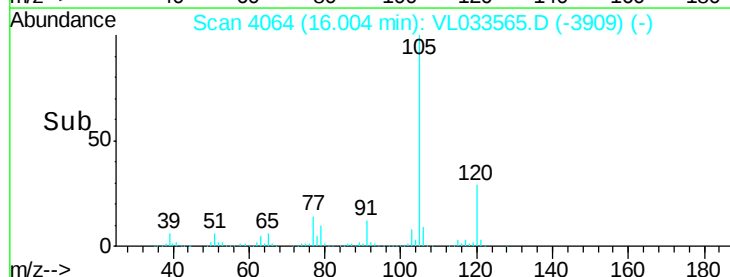
1500000

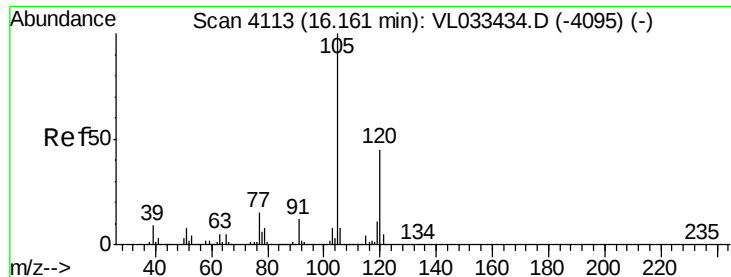
1000000

500000

0

Time--> 15.90 16.00 16.10





#73

1,3,5-Trimethylbenzene

Concen: 8.156 ppbv

RT: 16.16 min Scan# 4113

Delta R.T. -0.00 min

Lab File: VL033565.D

Acq: 10 Apr 2019 15:25

Instrument :

MSVOA_L

ClientSampleId :

VL0410ABS01

Tot Ion:105 Resp: 2663091

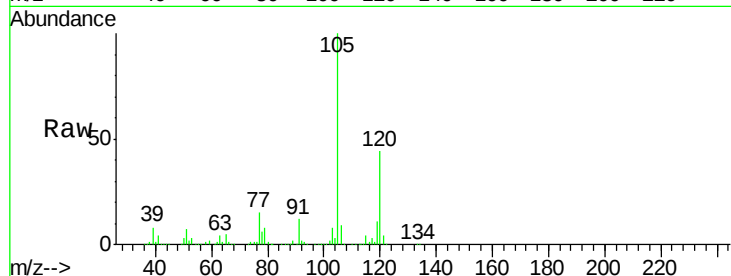
Ion Ratio Lower Upper

105 100

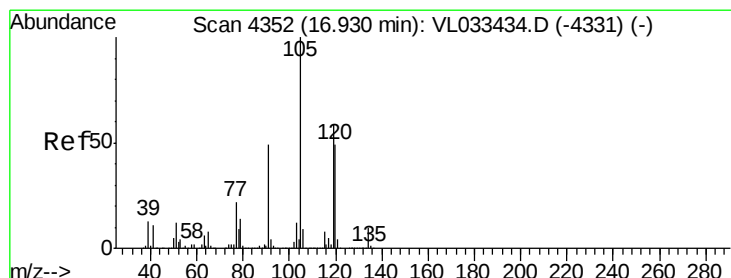
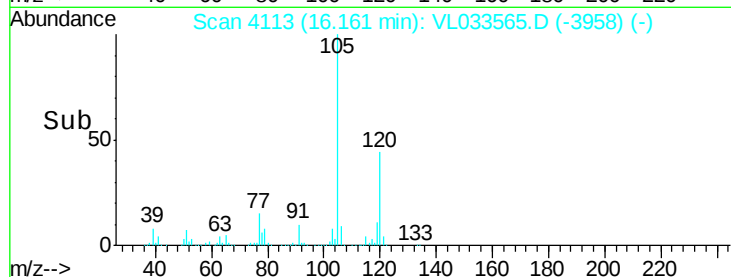
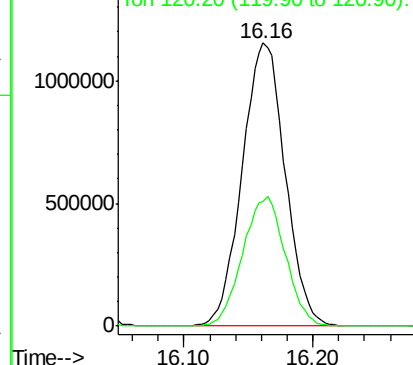
120 44.2 35.7 53.5

Manual Integrations
APPROVED

MMDadoda
4/11/2019 1:01:05 PM



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 7.804 ppbv

RT: 16.93 min Scan# 4352

Delta R.T. -0.00 min

Lab File: VL033565.D

Acq: 10 Apr 2019 15:25

Tgt Ion:105 Resp: 2730922

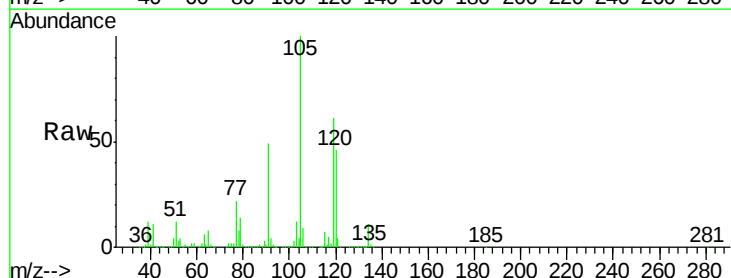
Ion Ratio Lower Upper

105 100

120 45.7 39.0 58.6

91 48.6 40.0 60.0

77 21.7 17.5 26.3

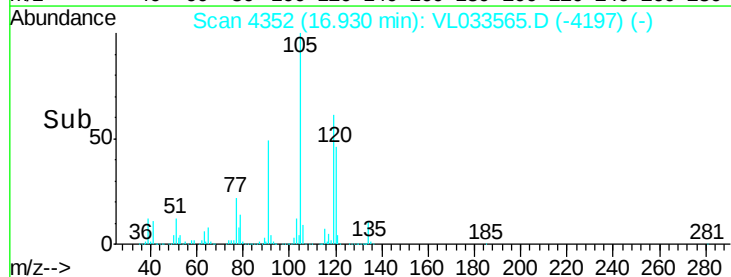
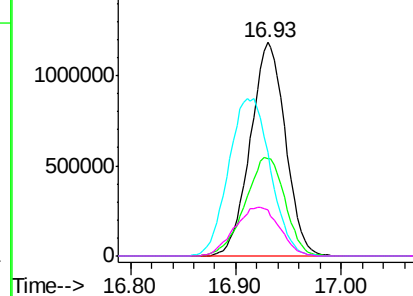


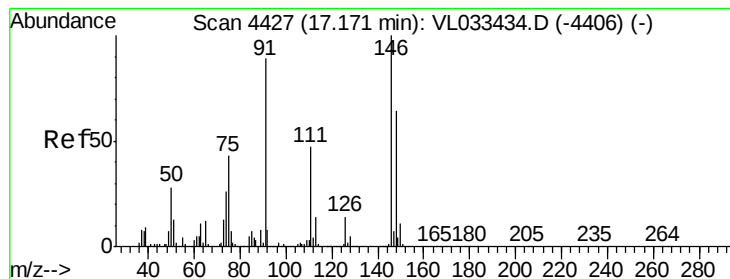
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): V

Ion 77.10 (76.80 to 77.80): V





#75

1,3-Dichlorobenzene

Concen: 7.582 ppbv

RT: 17.17 min Scan# 4426

Delta R.T. -0.00 min

Lab File: VL033565.D

Acq: 10 Apr 2019 15:25

Instrument :

MSVOA_L

ClientSampleId :

VL0410ABS01

Tot Ion:146 Resp: 1640014

Ion Ratio Lower Upper

146 100

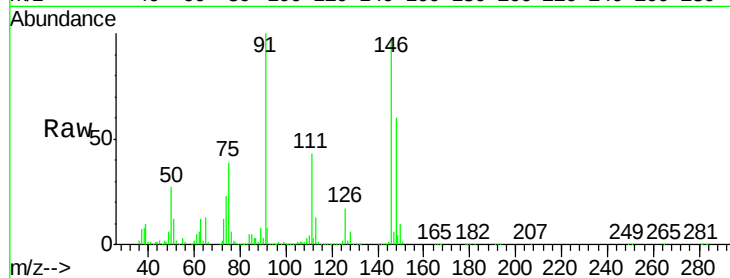
111 43.9 22.9 68.8

148 63.6 32.0 96.2

Manual Integrations
APPROVED

MMDadoda

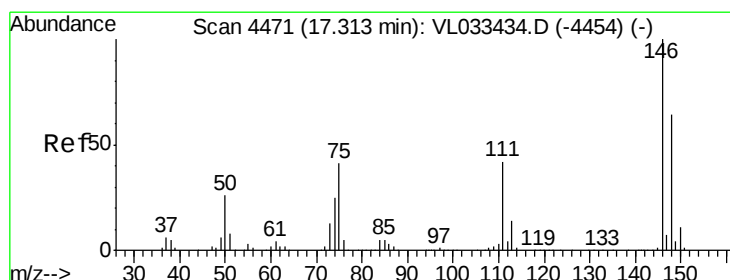
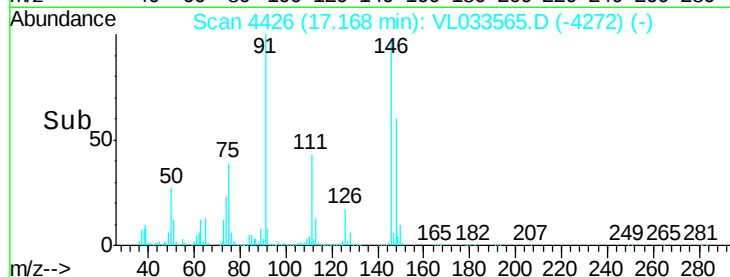
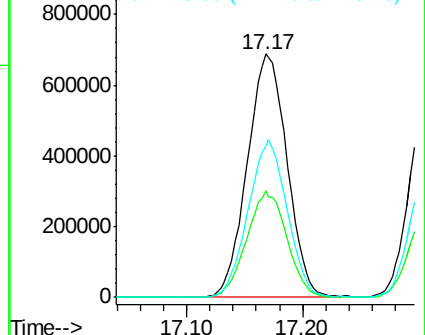
4/11/2019 1:01:05 PM



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 7.709 ppbv

RT: 17.31 min Scan# 4471

Delta R.T. -0.00 min

Lab File: VL033565.D

Acq: 10 Apr 2019 15:25

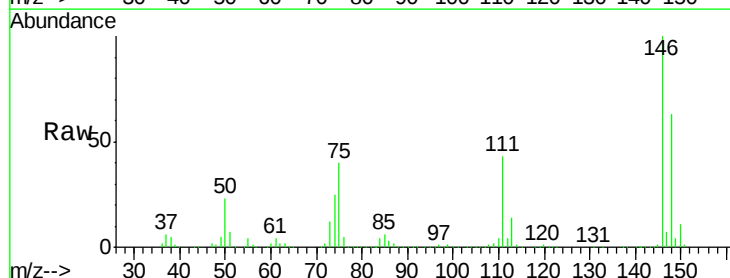
Tgt Ion:146 Resp: 1624579

Ion Ratio Lower Upper

146 100

111 43.4 21.7 65.1

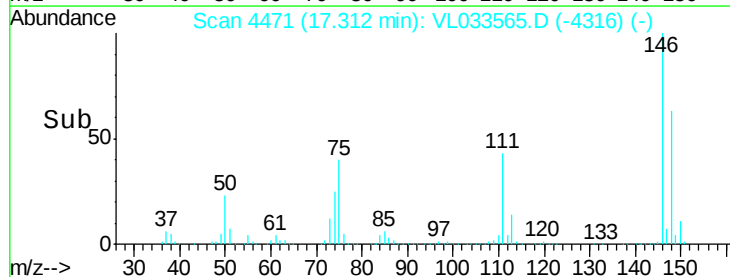
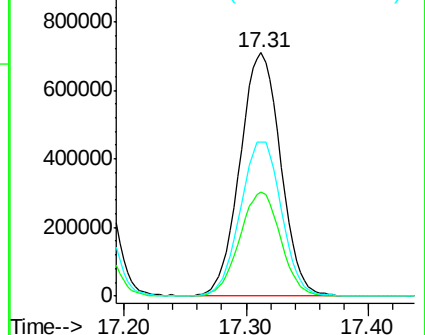
148 64.8 32.0 96.2

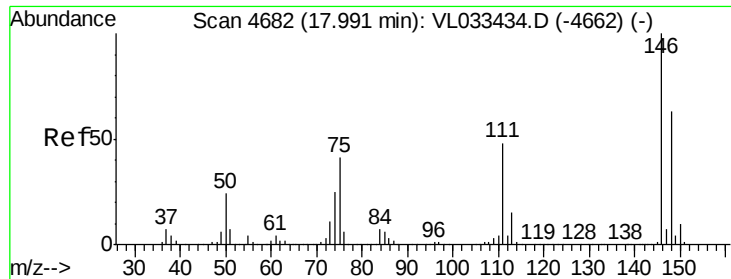


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 7.785 ppbv

RT: 17.99 min Scan# 4683

Delta R.T. 0.00 min

Lab File: VL033565.D

Acq: 10 Apr 2019 15:25

Instrument :

MSVOA_L

ClientSampleId :

VL0410ABS01

Tot Ion:146 Resp: 1597742

Ion Ratio Lower Upper

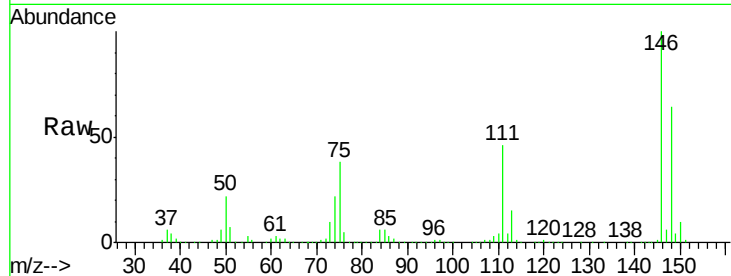
146 100

111 45.8 23.5 70.5

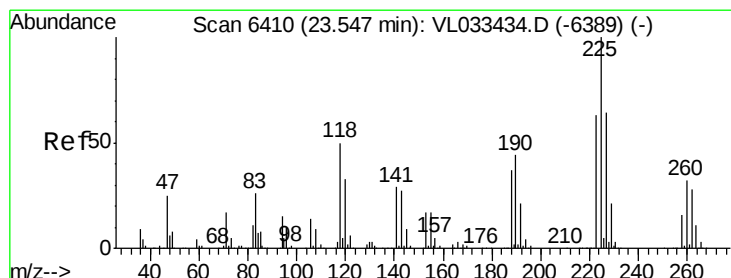
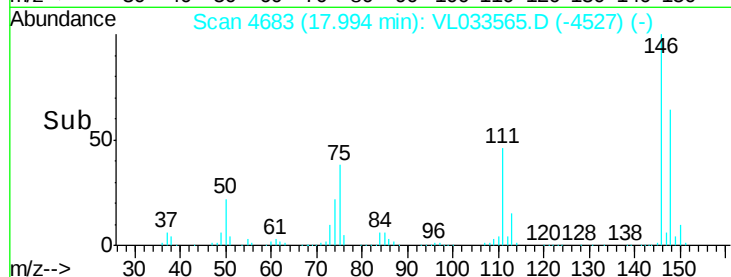
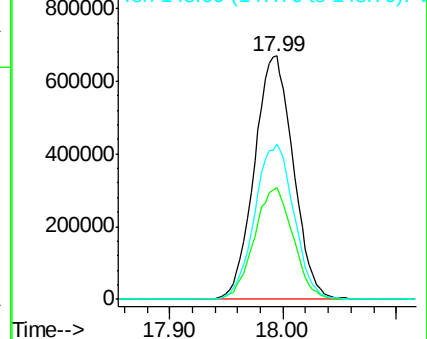
148 64.3 32.0 96.0

Manual Integrations
APPROVED

MMDadoda
4/11/2019 1:01:05 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: 8.773 ppbv

RT: 23.54 min Scan# 6409

Delta R.T. -0.00 min

Lab File: VL033565.D

Acq: 10 Apr 2019 15:25

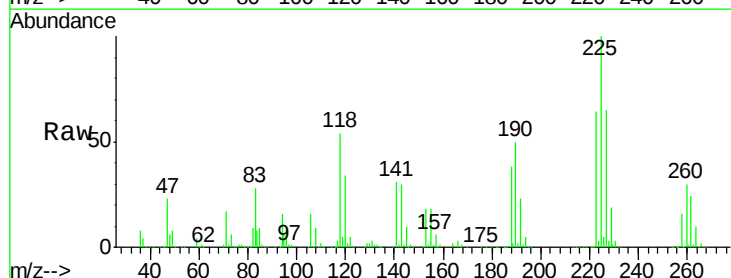
Tgt Ion:225 Resp: 1191852

Ion Ratio Lower Upper

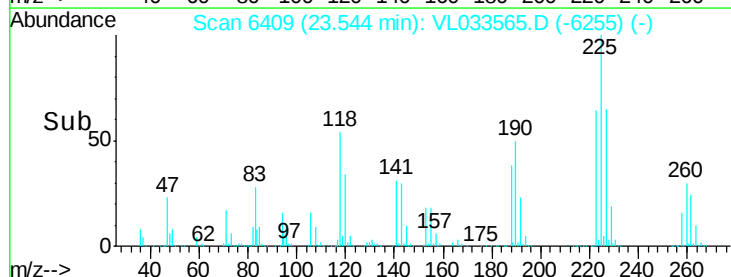
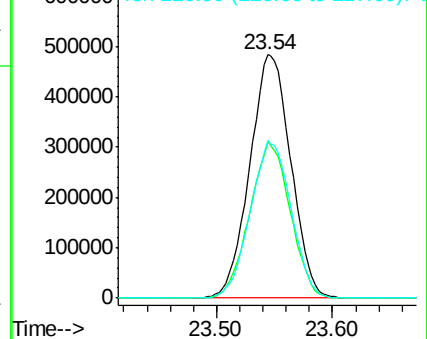
225 100

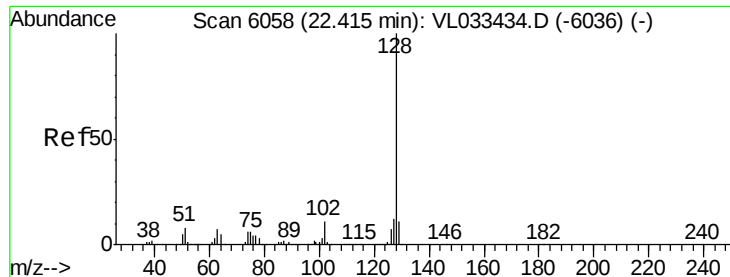
223 63.0 50.0 75.0

227 64.2 51.1 76.7



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





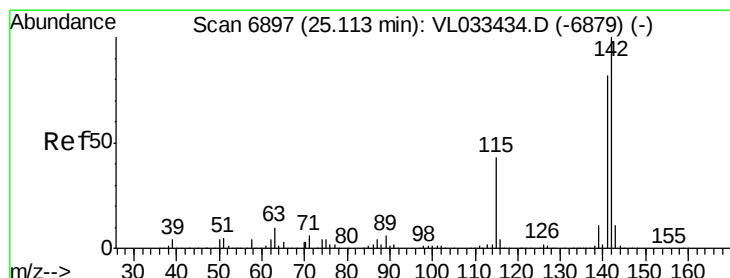
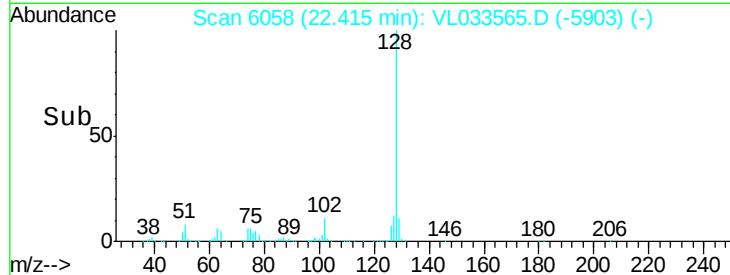
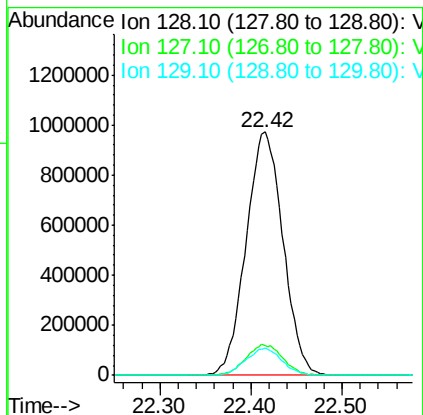
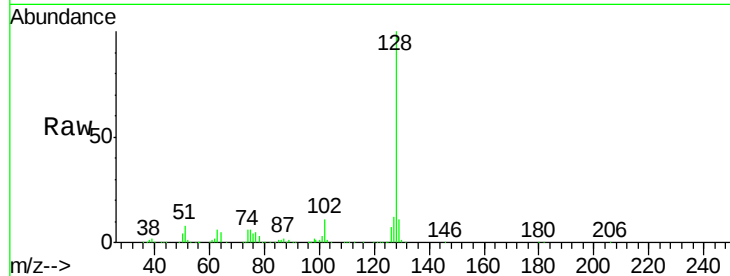
#79
Naphthalene
Concen: 9.132 ppbv
RT: 22.42 min Scan# 6058
Delta R.T. -0.00 min
Lab File: VL033565.D
Acq: 10 Apr 2019 15:25

Instrument :
MSVOA_L
ClientSampleId :
VL0410ABS01

Tot Ion:128 Resp: 2735548
Ion Ratio Lower Upper
128 100
127 12.4 9.8 14.8
129 11.1 8.6 12.8

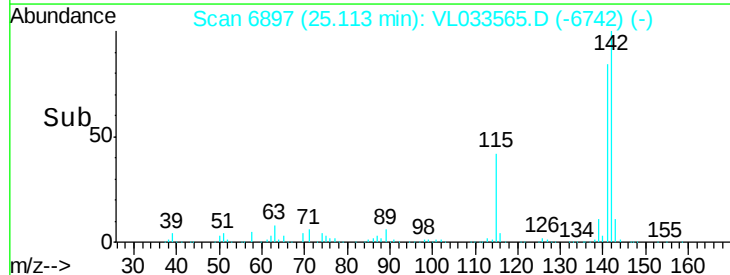
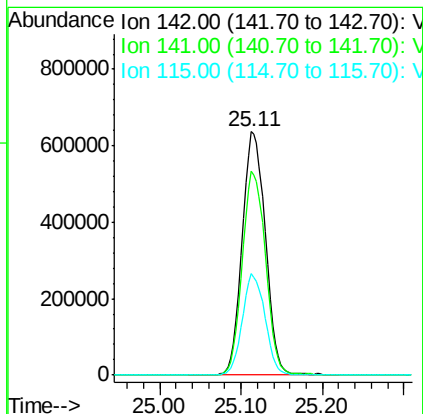
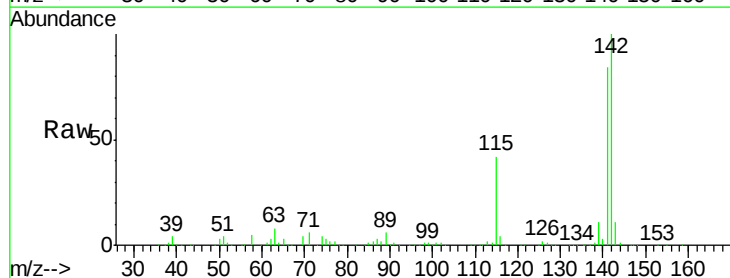
Manual Integrations
APPROVED

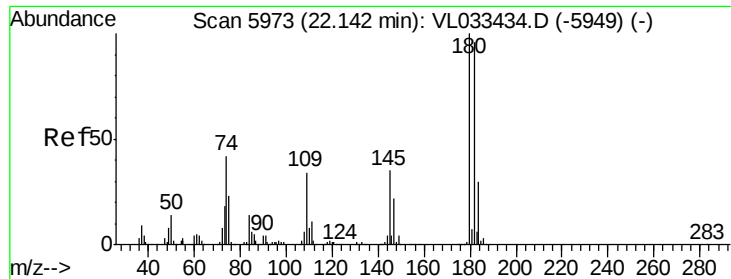
MMDadoda
4/11/2019 1:01:05 PM



#80
Naphthalene, 2-methyl-
Concen: 12.402 ppbv
RT: 25.11 min Scan# 6897
Delta R.T. -0.00 min
Lab File: VL033565.D
Acq: 10 Apr 2019 15:25

Tgt Ion:142 Resp: 1246815
Ion Ratio Lower Upper
142 100
141 84.0 66.6 99.8
115 40.7 34.4 51.6





#81
 1,2,4-Trichlorobenzene
 Concen: 8.520 ppbv
 RT: 22.14 min Scan# 5972
 Delta R.T. -0.00 min
 Lab File: VL033565.D
 Acq: 10 Apr 2019 15:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0410ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.1	77.0	115.4
184	30.7	24.6	36.8

Manual Integrations
 APPROVED

MMDadoda
 4/11/2019 1:01:05 PM

