

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032519\
 Data File : VL033440.D
 Acq On : 25 Mar 2019 14:28
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:22:49 AM

Quant Time: Mar 25 14:59:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 1
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	690465	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	1607772	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	1820648	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1363502	10.11	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1580738	13.019	ppbv	95
3) Chlorodifluoromethane	3.01	51	1164204	14.690	ppbv	98
4) Chloromethane	3.17	50	616429	14.364	ppbv	96
5) Vinyl Chloride	3.29	62	613649	13.861	ppbv	98
6) Bromomethane	3.51	94	394046	14.974	ppbv	98
7) Chloroethane	3.60	64	236411	15.282	ppbv	97
8) Dichlorotetrafluoroethane	3.22	85	1550139	14.996	ppbv	99
9) Propene	3.04	41	491389	13.890	ppbv	100
10) Heptane	8.25	43	1447626	16.498	ppbv	100
11) Trichlorofluoromethane	4.00	101	1881079	15.558	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1276301	15.910	ppbv	99
13) Ethanol	3.65	45	108854	6.454	ppbv	94
14) Bromoethene	3.79	108	517545	15.478	ppbv	99
15) Acetone	3.90	43	1152327	10.736	ppbv	98
16) 1,3-Butadiene	3.36	39	506377	14.525	ppbv	98
17) tert-Butyl alcohol	4.36	59	184132	12.190	ppbv	98
18) 1,1-Dichloroethene	4.35	96	562219	15.327	ppbv	99
19) Isopropyl Alcohol	4.02	45	598107	11.715	ppbv	99
20) Methylene Chloride	4.41	84	475382	13.581	ppbv	99
21) Allyl Chloride	4.48	41	850668	16.338	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	584282	16.437	ppbv	97
23) Vinyl Acetate	5.16	43	1916836	15.435	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1326631	14.791	ppbv	99
25) Ethyl Acetate	5.77	43	2341874	15.010	ppbv	100
26) Hexane	5.78	57	1032727	14.806	ppbv	99
27) Carbon Disulfide	4.62	76	1447458	18.026	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1539394	14.859	ppbv	99
29) Chloroform	5.85	83	1786032	15.638	ppbv	100
30) Cyclohexane	7.25	84	876049	15.665	ppbv	98
31) cis-1,2-Dichloroethene	5.64	61	1100924	15.786	ppbv	94
32) 1,1,1-Trichloroethane	6.62	97	1790846	15.970	ppbv	99
34) 2-Butanone	5.33	43	1543220	14.615	ppbv	99
35) Carbon Tetrachloride	7.14	117	1909733	16.848	ppbv	98
36) Benzene	7.01	78	2163147	15.034	ppbv	99
37) 1,2-Dichloroethane	6.42	62	1390295	15.281	ppbv	99
38) Trichloroethene	7.97	130	889795	16.342	ppbv	95
39) 1,2-Dichloropropane	7.74	63	829223	15.389	ppbv	98
40) 1,4-Dioxane	7.96	88	254576	13.417	ppbv #	1
41) Tetrahydrofuran	6.15	42	886169	15.727	ppbv	99
42) Bromodichloromethane	7.92	83	2051588	16.819	ppbv	100
43) Methyl Methacrylate	8.14	69	956846	17.079	ppbv	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032519\
 Data File : VL033440.D
 Acq On : 25 Mar 2019 14:28
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:22:49 AM

Quant Time: Mar 25 14:59:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 1
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3747886	15.726	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1347704	19.484	ppbv	98
46) cis-1,3-Dichloropropene	8.84	75	1483381	18.213	ppbv	96
47) 1,1,2-Trichloroethane	9.62	97	972805	16.340	ppbv	94
48) Dibromochloromethane	10.46	129	1814817	18.176	ppbv	100
49) Bromoform	13.21	173	1675272	17.687	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2388920	16.018	ppbv	100
51) 2-Hexanone	10.27	43	1918107	16.670	ppbv #	100
52) Tetrachloroethene	11.38	164	894365	14.920	ppbv	98
53) Toluene	9.95	91	2777257	16.987	ppbv	99
54) 1,2-Dibromoethane	10.77	107	1596699	15.865	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.28	131	1253780	15.394	ppbv #	73
57) Chlorobenzene	12.31	112	2098630	14.554	ppbv	99
58) Ethyl Benzene	12.87	91	3916340	15.206	ppbv	98
59) m/p-Xylene	13.16	91	6655837m	30.071	ppbv	
60) o-Xylene	13.86	91	3224006	14.930	ppbv	99
61) Styrene	13.69	104	2441729	16.150	ppbv	100
62) Isopropylbenzene	14.83	105	4560623	15.192	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	2242225	14.364	ppbv	100
64) n-propylbenzene	15.73	120	1188254	15.642	ppbv	96
65) tert-Butylbenzene	16.92	119	4111595	15.213	ppbv	98
66) Benzyl Chloride	17.16	91	2482201	22.224	ppbv	99
67) sec-Butylbenzene	17.47	105	5863044	15.309	ppbv	99
69) p-Isopropyltoluene	17.82	119	4855149	15.517	ppbv	99
70) n-Butylbenzene	18.72	91	5136557	15.396	ppbv	100
71) 2-Chlorotoluene	15.62	91	3580246	15.321	ppbv	99
72) 4-Ethyltoluene	16.01	105	3825977	15.602	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	3659073	15.317	ppbv	97
74) 1,2,4-Trimethylbenzene	16.93	105	3783889	14.956	ppbv	99
75) 1,3-Dichlorobenzene	17.17	146	2243789	15.047	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	2267585	15.706	ppbv	100
77) 1,2-Dichlorobenzene	18.00	146	2218744	15.710	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	1679115	19.831	ppbv	100
79) Naphthalene	22.42	128	3923764	16.094	ppbv	97
80) Naphthalene, 2-methyl-	25.12	142	1770271	15.313	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1980769	15.932	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

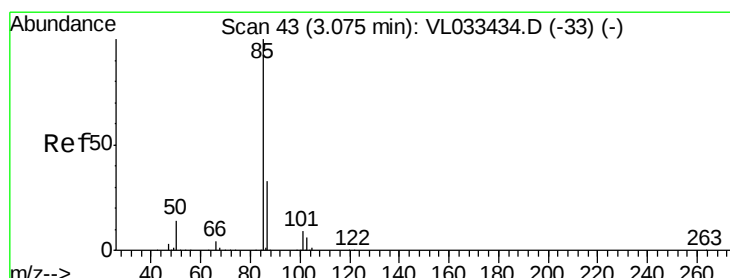
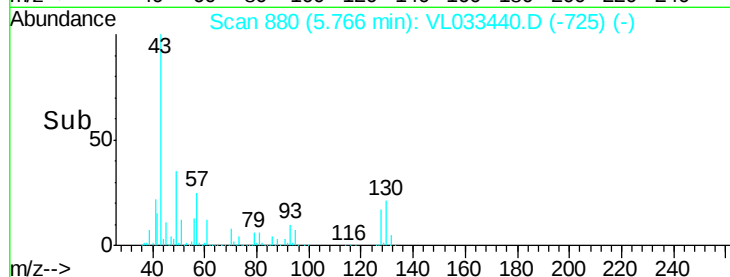
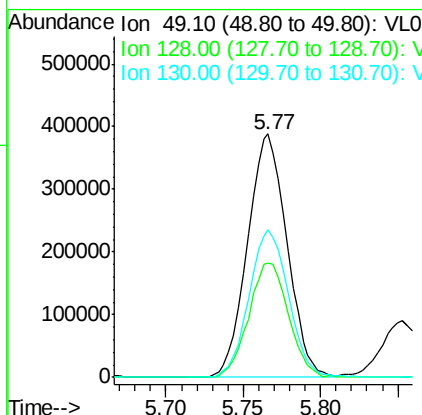
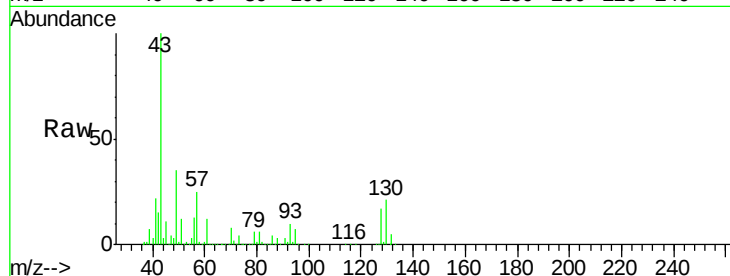
ClientSampleId :

VSTDIC015

Tot Ion:	49	Resp:	690465
Ion	Ratio	Lower	Upper
49	100		
128	47.3	23.5	70.6
130	60.9	30.1	90.3

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:22:49 AM



#2

Dichlorodifluoromethane

Concen: 13.019 ppbv

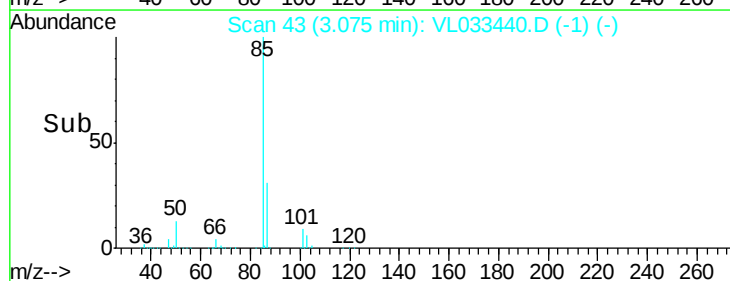
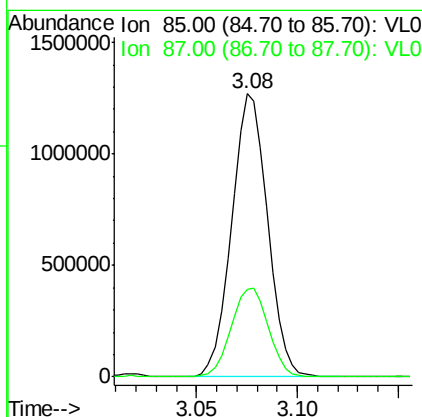
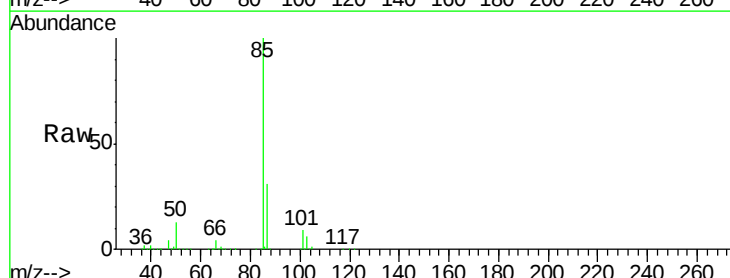
RT: 3.08 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Tgt Ion:	85	Resp:	1580738
Ion	Ratio	Lower	Upper
85	100		
87	30.8	26.9	40.3





#3

Chlorodifluoromethane

Concen: 14.690 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 51 Resp: 1164204

Ion Ratio Lower Upper

51 100

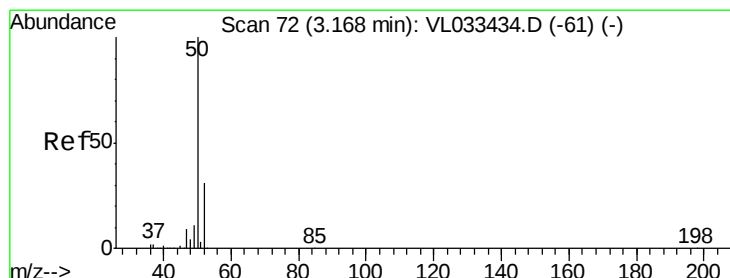
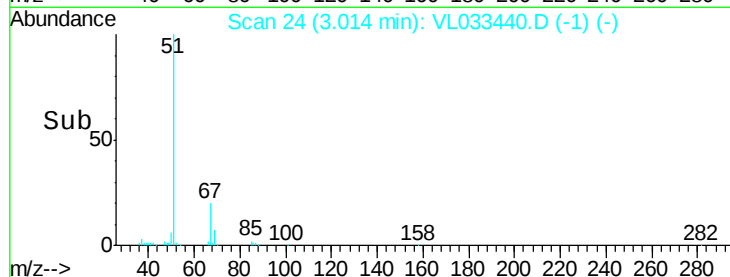
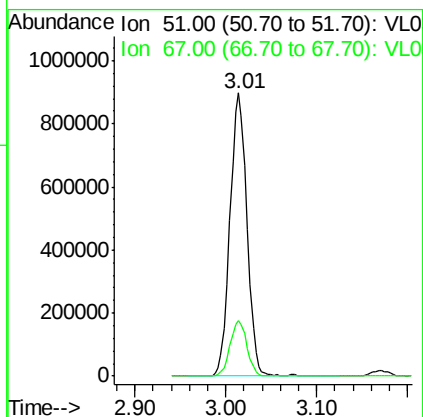
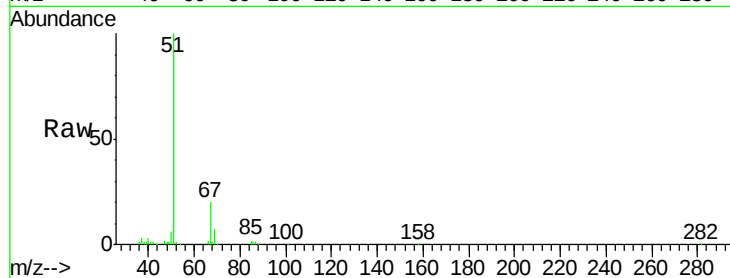
67 19.5 14.9 22.3

Manual Integrations

APPROVED

MMDadoda

4/1/2019 1:22:49 AM



#4

Chloromethane

Concen: 14.364 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL033440.D

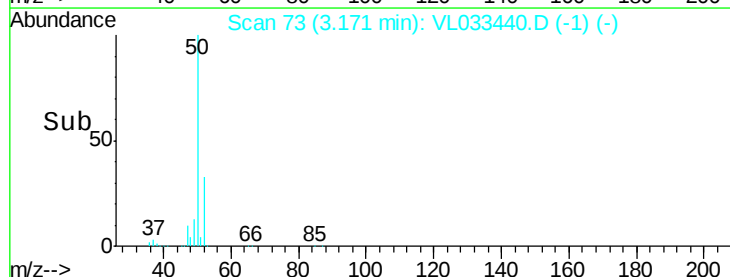
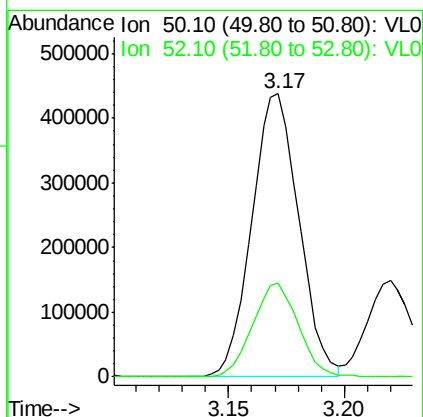
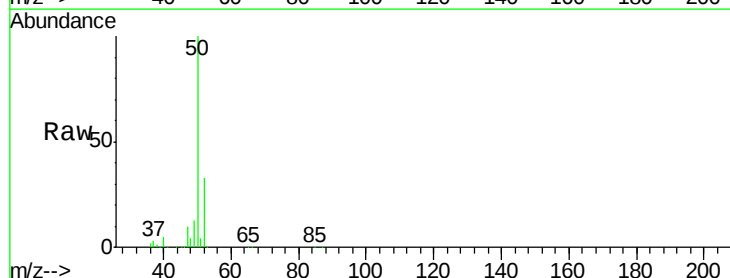
Acq: 25 Mar 2019 14:28

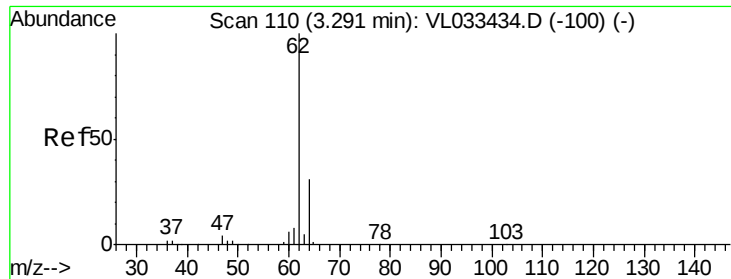
Tgt Ion: 50 Resp: 616429

Ion Ratio Lower Upper

50 100

52 33.4 25.0 37.6





#5

Vinyl Chloride

Concen: 13.861 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 613649

Ion Ratio Lower Upper

62 100

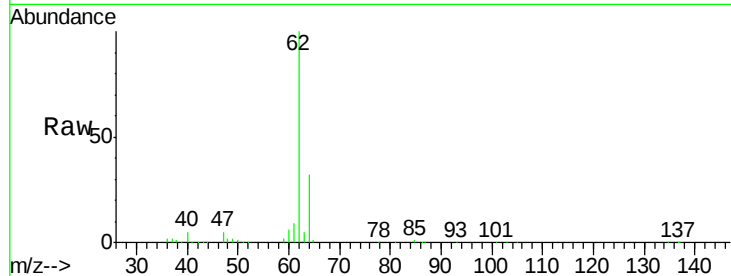
64 32.5 25.0 37.6

Manual Integrations

APPROVED

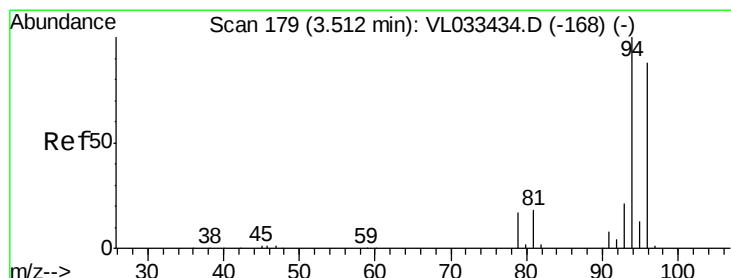
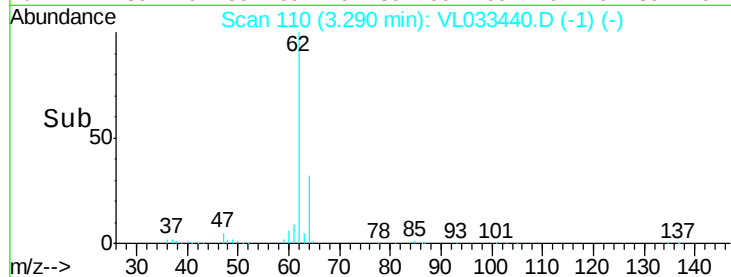
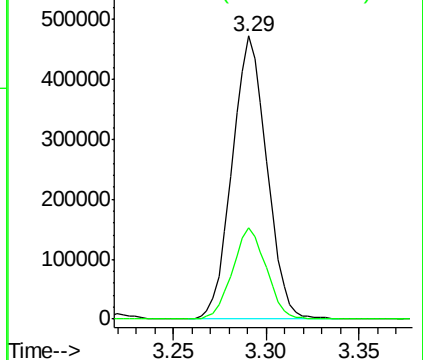
MMDadoda

4/1/2019 1:22:49 AM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 14.974 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033440.D

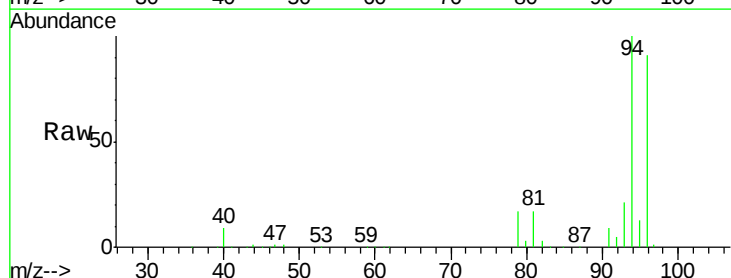
Acq: 25 Mar 2019 14:28

Tgt Ion: 94 Resp: 394046

Ion Ratio Lower Upper

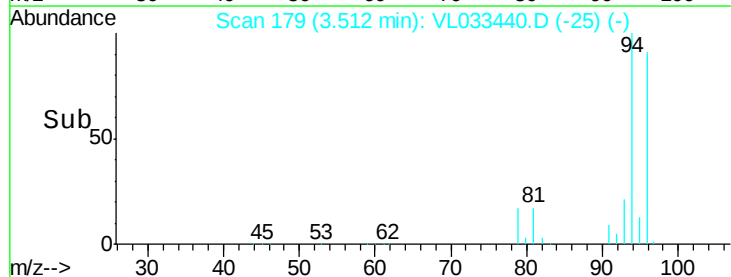
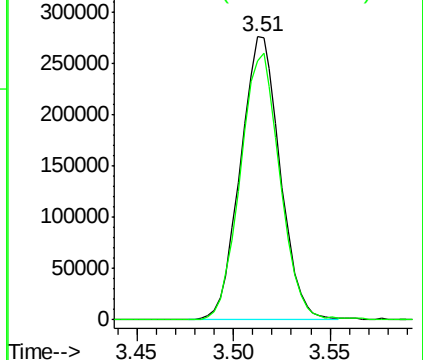
94 100

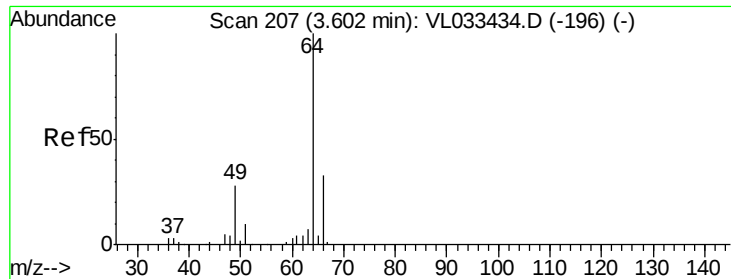
96 91.4 74.6 111.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 15.282 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 236411

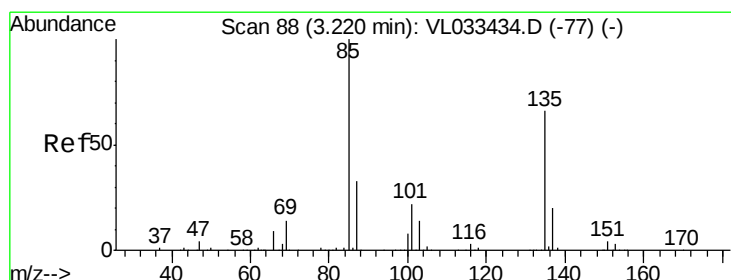
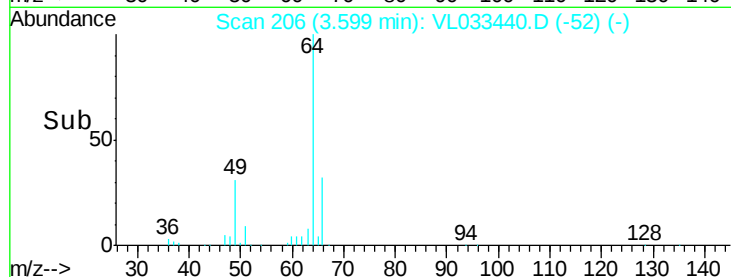
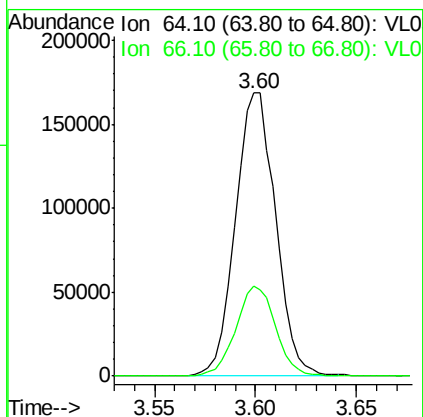
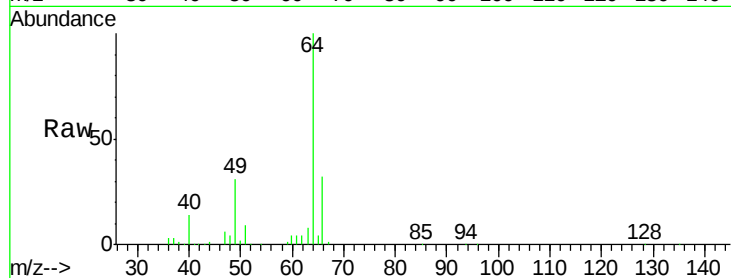
Ion Ratio Lower Upper

64 100

66 31.9 24.0 36.0

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:22:49 AM



#8

Dichlorotetrafluoroethane

Concen: 14.996 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033440.D

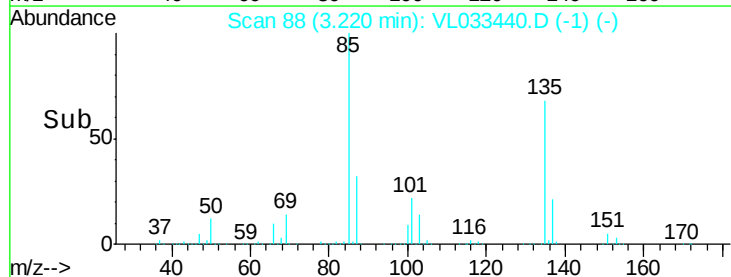
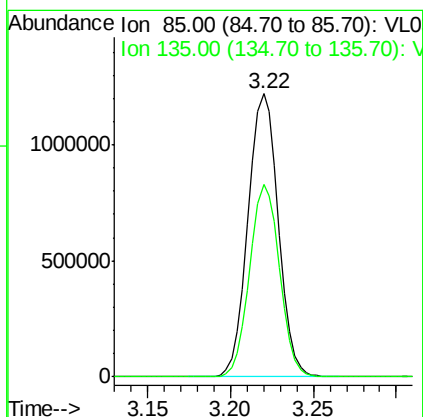
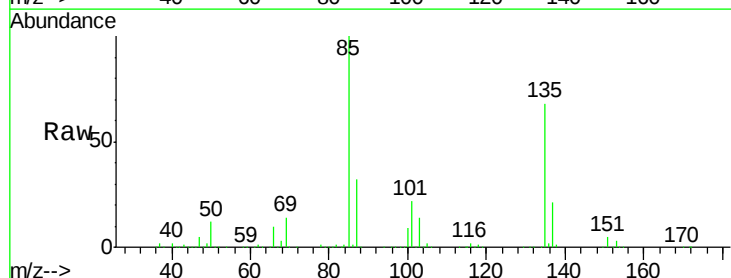
Acq: 25 Mar 2019 14:28

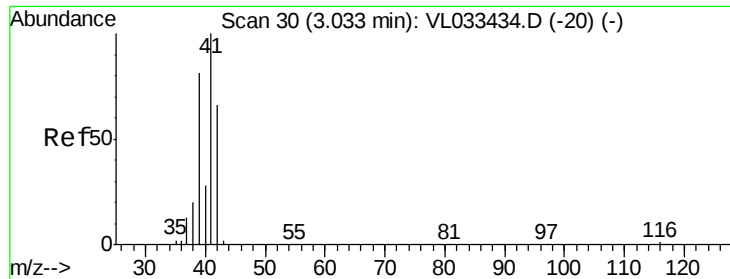
Tgt Ion: 85 Resp: 1550139

Ion Ratio Lower Upper

85 100

135 67.5 53.4 80.2





#9

Propene

Concen: 13.890 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 491389

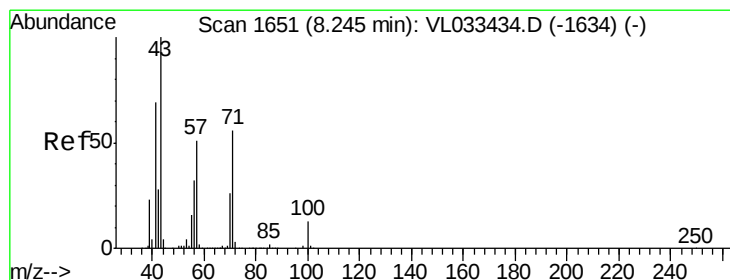
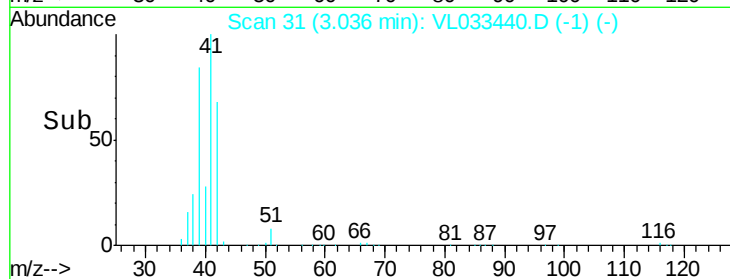
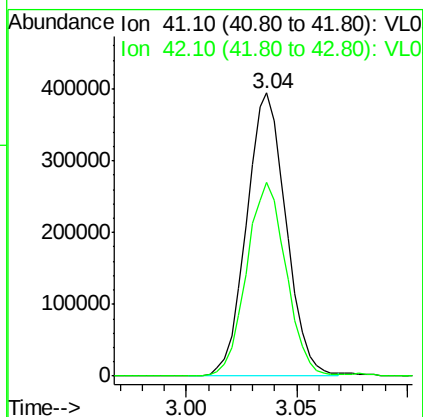
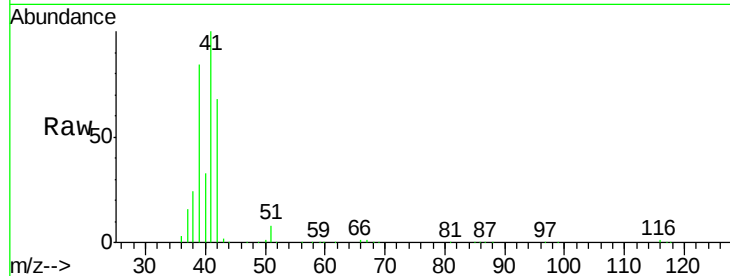
Ion Ratio Lower Upper

41 100

42 69.3 55.2 82.8

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:22:49 AM



#10

Heptane

Concen: 16.498 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. -0.00 min

Lab File: VL033440.D

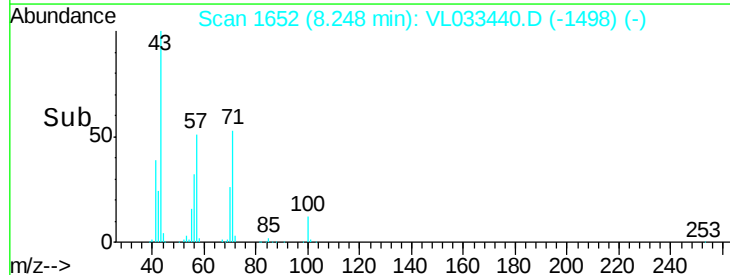
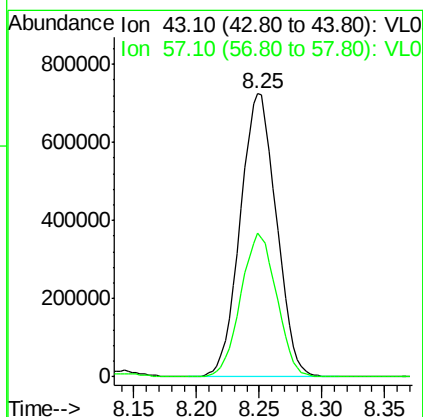
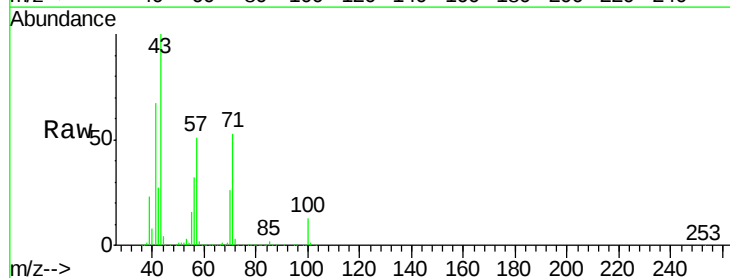
Acq: 25 Mar 2019 14:28

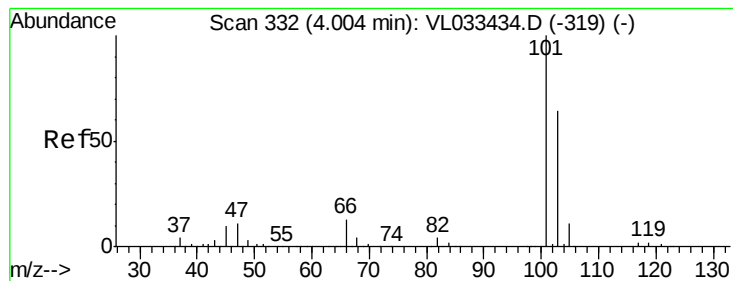
Tgt Ion: 43 Resp: 1447626

Ion Ratio Lower Upper

43 100

57 50.6 40.4 60.6





#11

Trichlorofluoromethane

Concen: 15.558 ppbv

RT: 4.00 min Scan# 332

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Tot Ion:101 Resp: 1881079

Ion Ratio Lower Upper

101 100

103 64.4 52.9 79.3

Instrument :

MSVOA_L

ClientSampled :

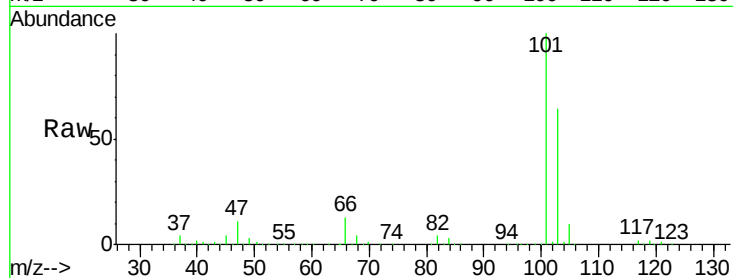
VSTDIC015

Manual Integrations

APPROVED

MMDadoda

4/1/2019 1:22:49 AM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

4.00

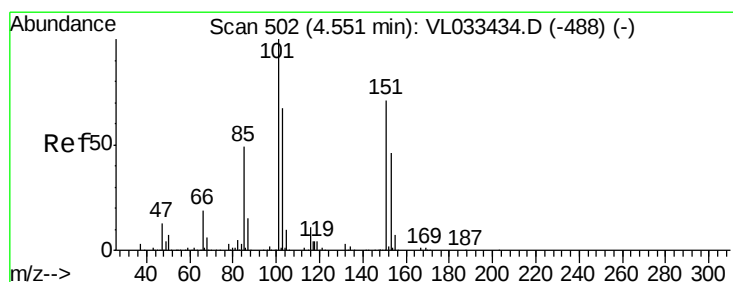
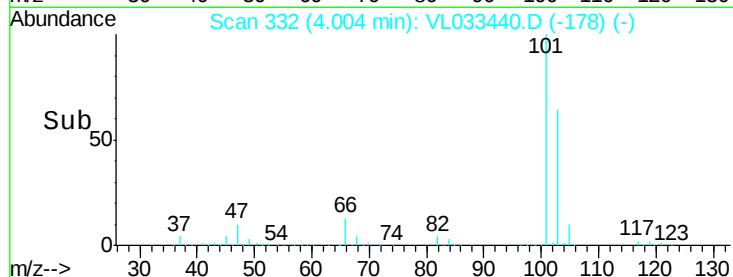
1500000

1000000

500000

0

Time-->



#12

1,1,2-Trichlorotrifluoroethane

Concen: 15.910 ppbv

RT: 4.55 min Scan# 502

Delta R.T. -0.00 min

Lab File: VL033440.D

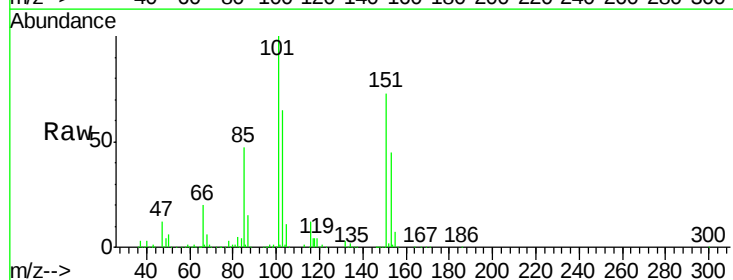
Acq: 25 Mar 2019 14:28

Tgt Ion:101 Resp: 1276301

Ion Ratio Lower Upper

101 100

151 71.5 56.3 84.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

4.55

800000

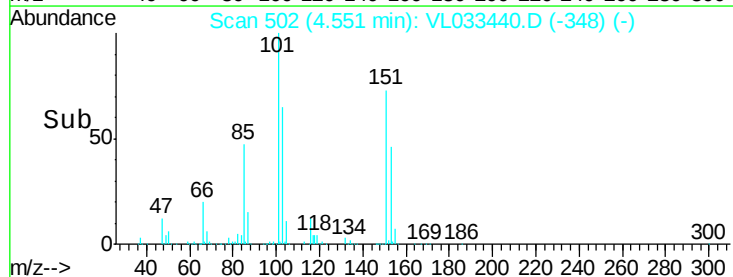
600000

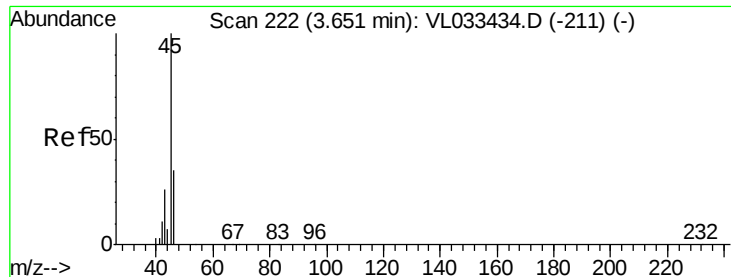
400000

200000

0

Time-->





#13

Ethanol

Concen: 6.454 ppbv

RT: 3.65 min Scan# 222

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 45 Resp: 108854

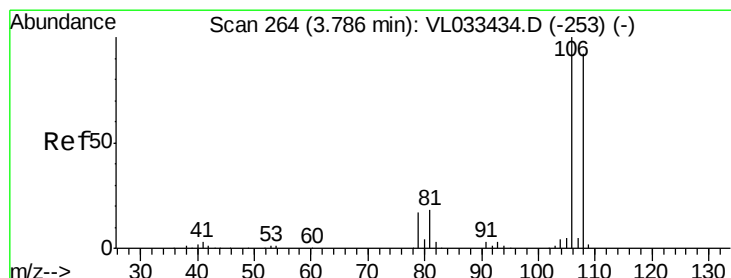
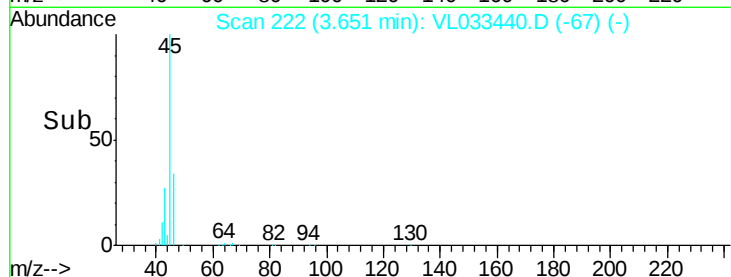
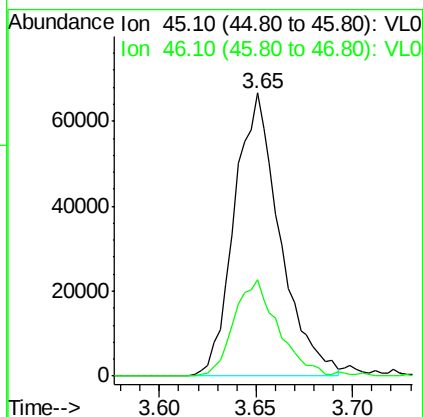
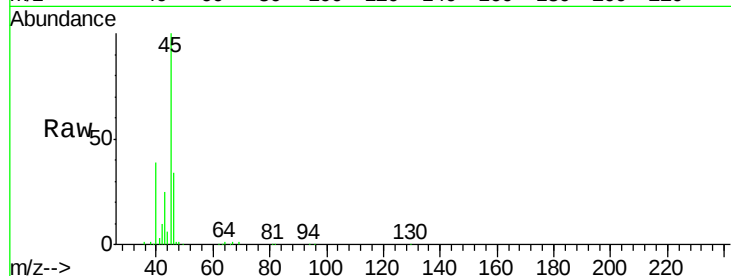
Ion Ratio Lower Upper

45 100

46 33.9 14.9 59.7

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:22:49 AM



#14

Bromoethene

Concen: 15.478 ppbv

RT: 3.79 min Scan# 265

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

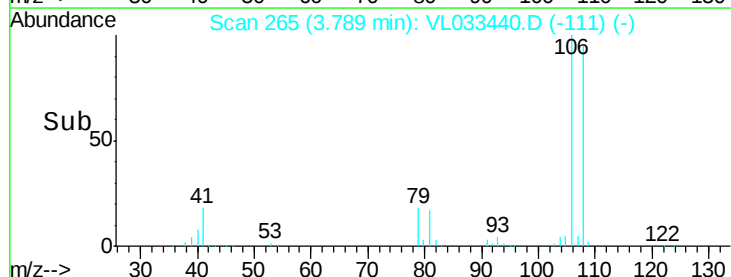
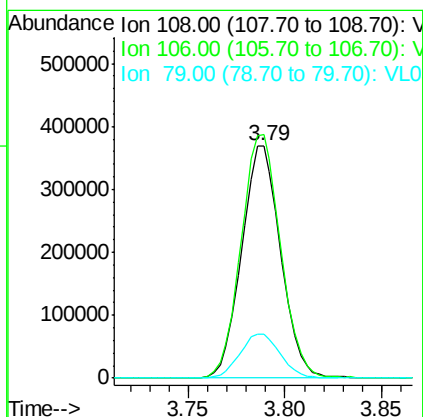
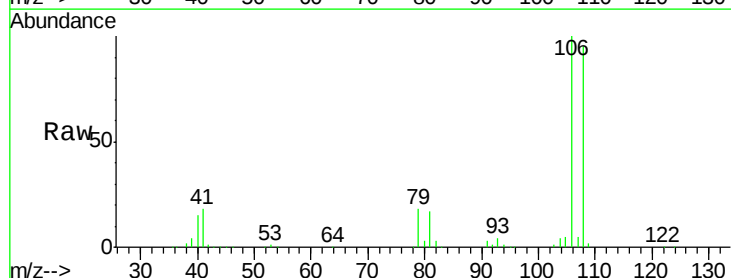
Tgt Ion: 108 Resp: 517545

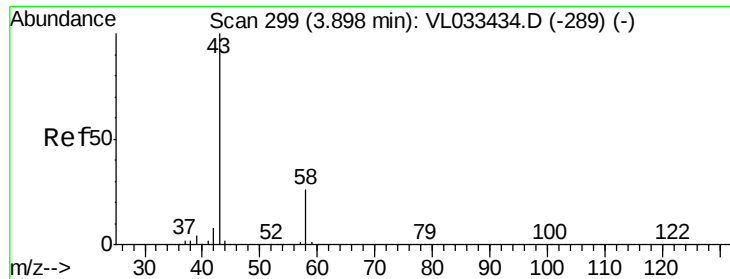
Ion Ratio Lower Upper

108 100

106 106.8 86.2 129.2

79 19.8 15.4 23.2





#15

Acetone

Concen: 10.736 ppbv

RT: 3.90 min Scan# 300

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 1152327

Ion Ratio Lower Upper

43 100

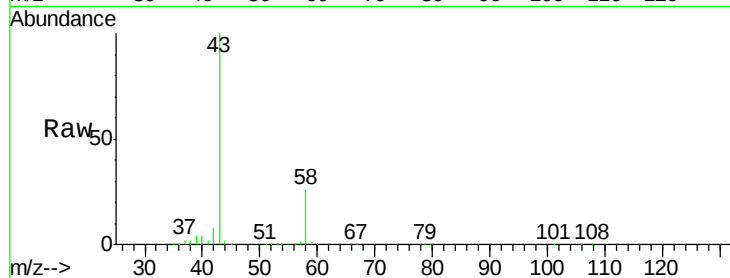
58 26.3 20.4 30.6

Manual Integrations

APPROVED

MMDadoda

4/1/2019 1:22:49 AM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.90

800000

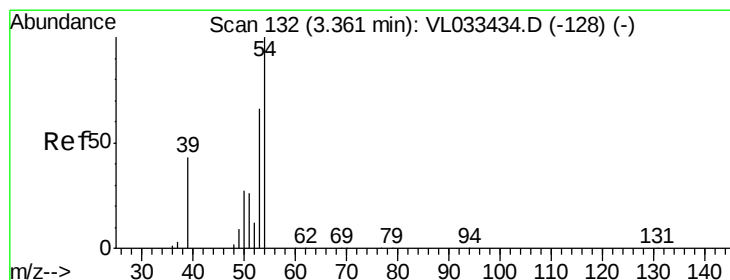
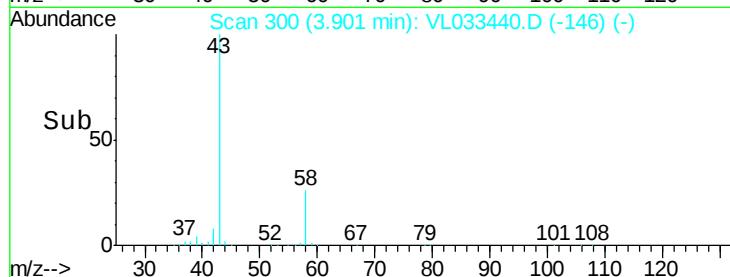
600000

400000

200000

0

Time-->



#16

1,3-Butadiene

Concen: 14.525 ppbv

RT: 3.36 min Scan# 133

Delta R.T. -0.00 min

Lab File: VL033440.D

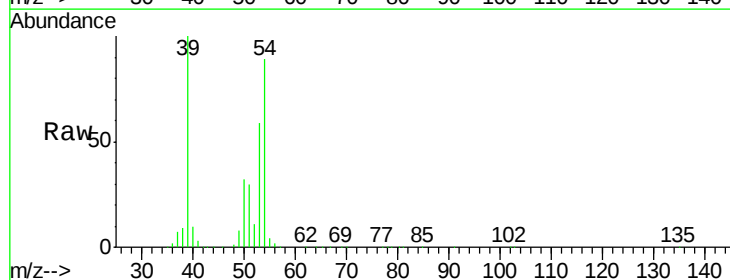
Acq: 25 Mar 2019 14:28

Tgt Ion: 39 Resp: 506377

Ion Ratio Lower Upper

39 100

54 97.9 76.8 115.2



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.36

500000

400000

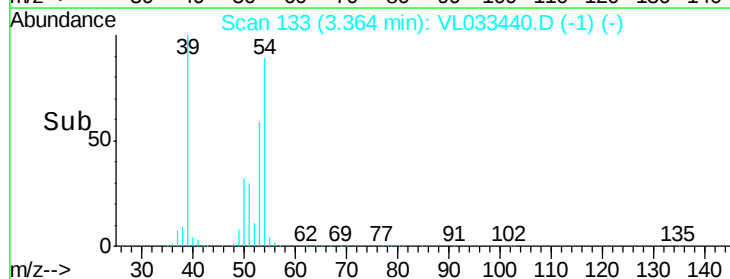
300000

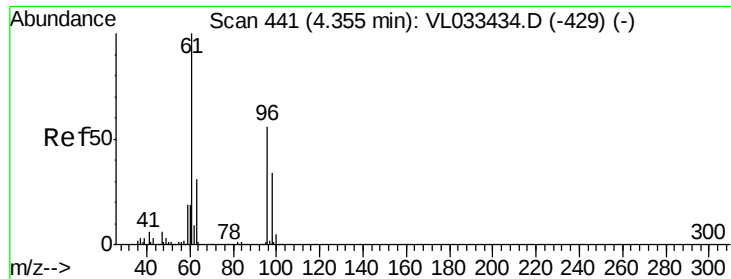
200000

100000

0

Time-->





#17

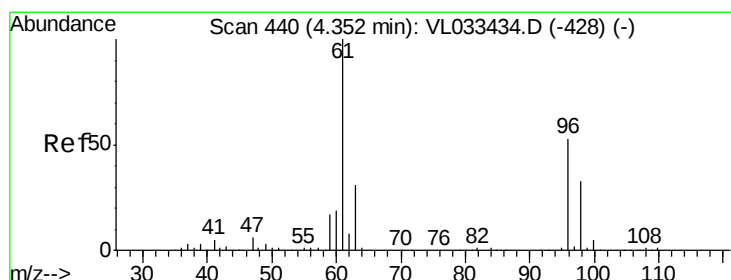
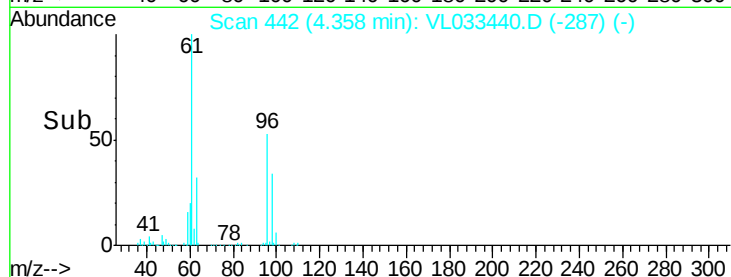
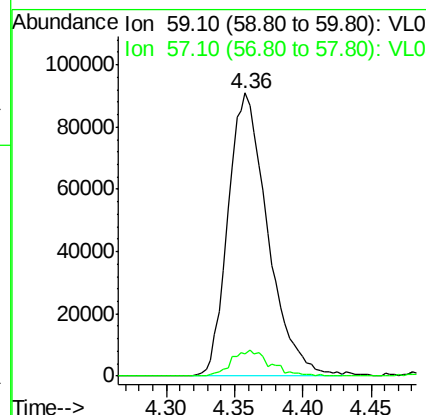
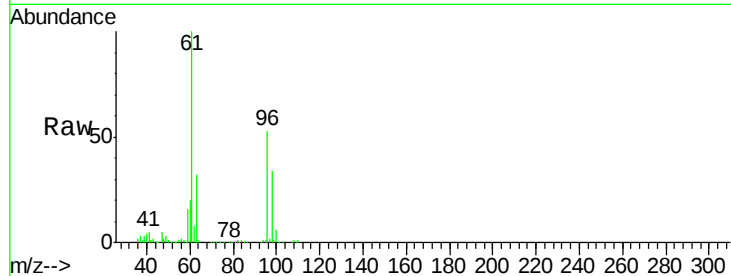
tert-Butyl alcohol
Concen: 12.190 ppbv
RT: 4.36 min Scan# 442
Delta R.T. -0.00 min
Lab File: VL033440.D
Acq: 25 Mar 2019 14:28

Instrument :
MSVOA_L
ClientSampled :
VSTDIC015

Tot Ion: 59 Resp: 184132
Ion Ratio Lower Upper
59 100
57 8.9 7.7 11.5

Manual Integrations
APPROVED

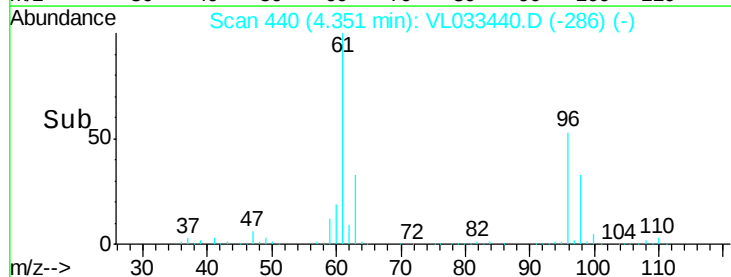
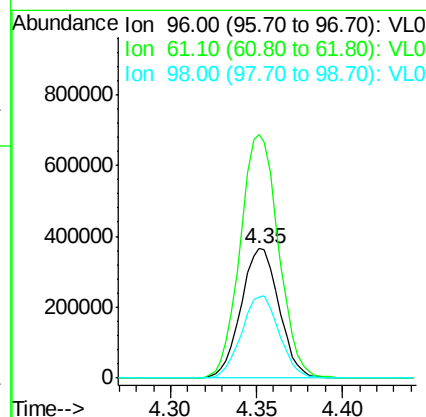
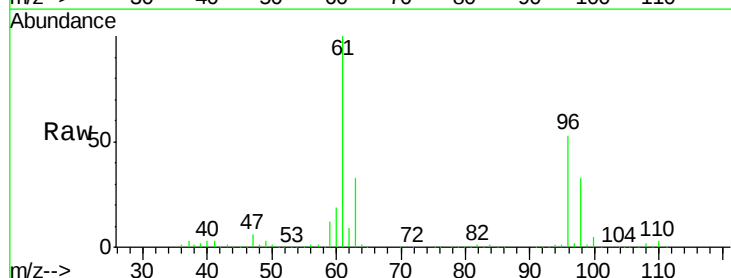
MMDadoda
4/1/2019 1:22:49 AM

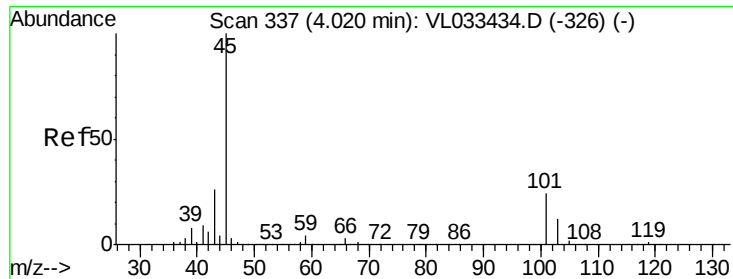


#18

1,1-Dichloroethene
Concen: 15.327 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.00 min
Lab File: VL033440.D
Acq: 25 Mar 2019 14:28

Tgt Ion: 96 Resp: 562219
Ion Ratio Lower Upper
96 100
61 187.7 148.6 222.8
98 62.2 50.3 75.5





#19

Isopropyl Alcohol

Concen: 11.715 ppbv

RT: 4.02 min Scan# 338

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 45 Resp: 598107

Ion Ratio Lower Upper

45 100

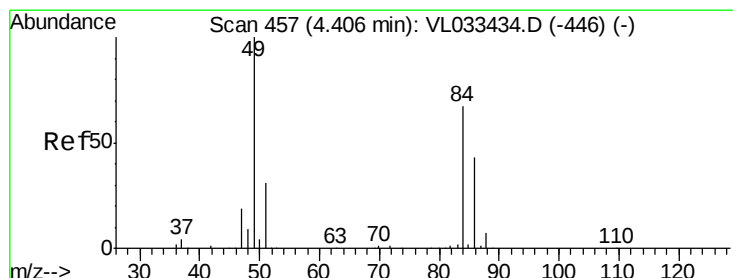
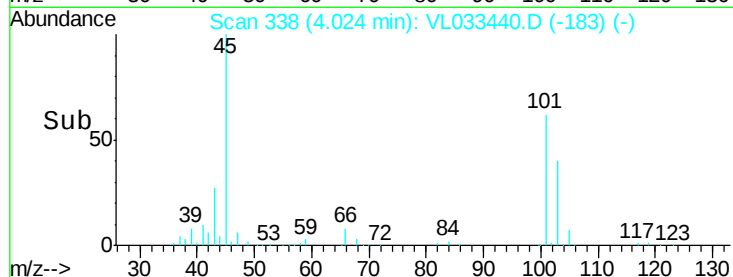
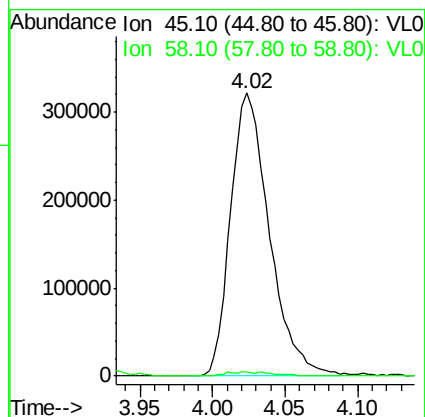
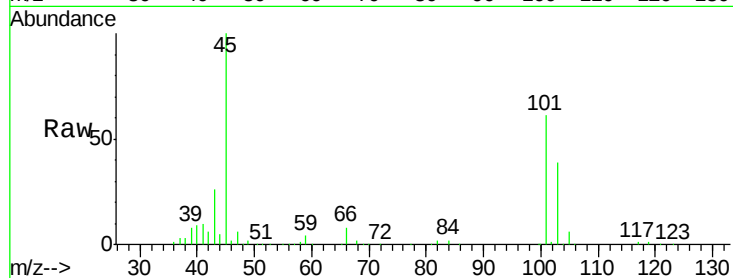
58 2.2 1.5 2.3

Manual Integrations

APPROVED

MMDadoda

4/1/2019 1:22:49 AM



#20

Methylene Chloride

Concen: 13.581 ppbv

RT: 4.41 min Scan# 458

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Tgt Ion: 84 Resp: 475382

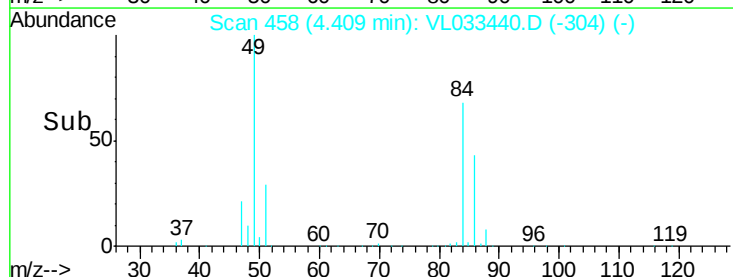
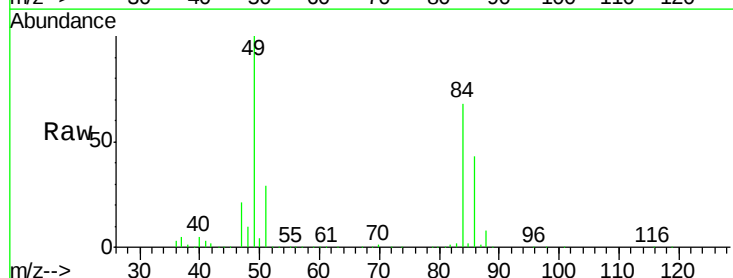
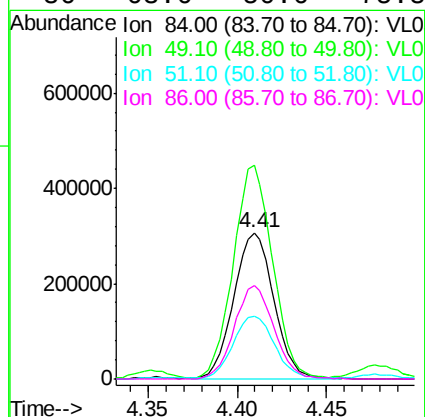
Ion Ratio Lower Upper

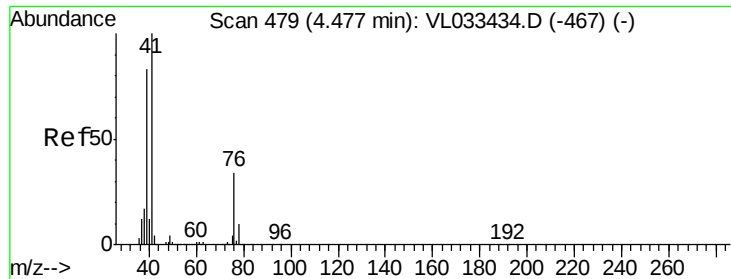
84 100

49 145.6 115.4 173.0

51 42.7 35.8 53.6

86 63.6 50.6 75.8





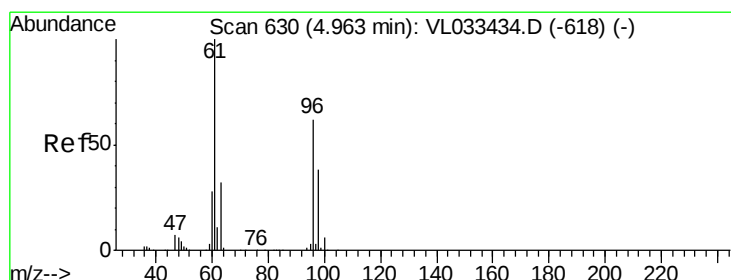
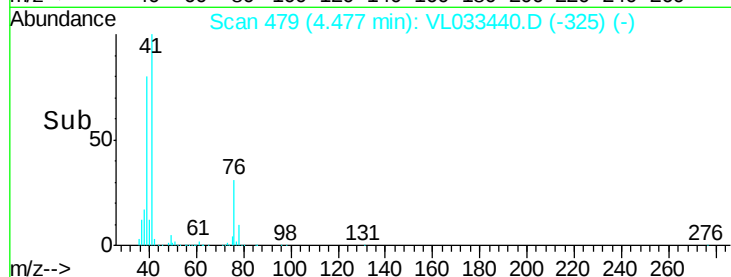
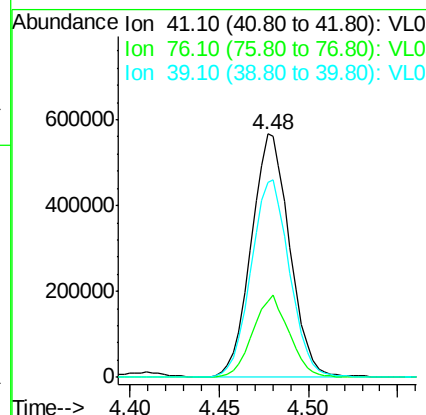
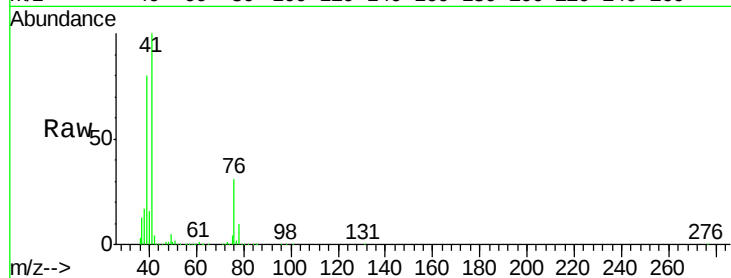
#21
Allvl Chloride
Concen: 16.338 ppbv
RT: 4.48 min Scan# 479
Delta R.T. -0.00 min
Lab File: VL033440.D
Acq: 25 Mar 2019 14:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:	41	Resp:	850668
Ion	Ratio	Lower	Upper
41	100		
76	32.2	25.0	37.4
39	82.2	65.9	98.9

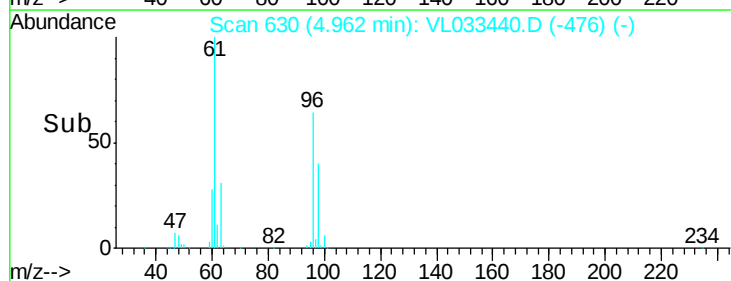
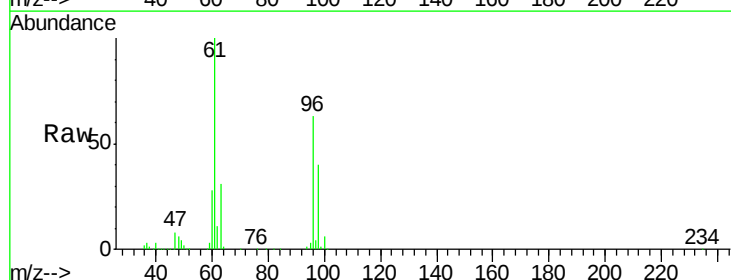
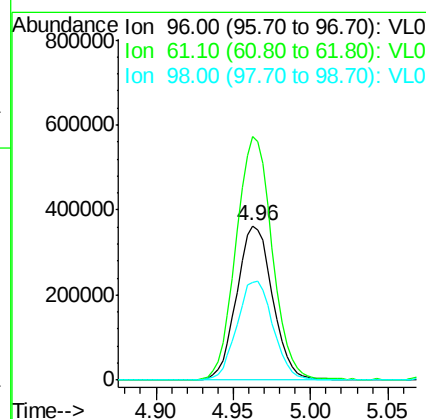
Manual Integrations
APPROVED

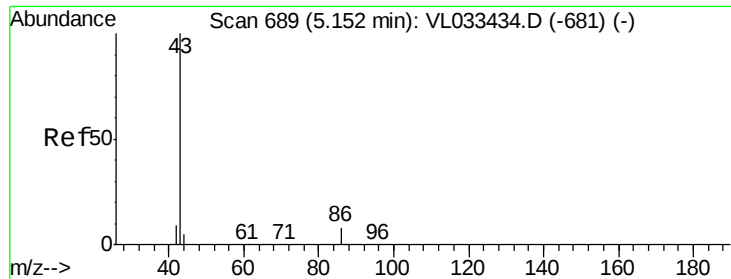
MMDadoda
4/1/2019 1:22:49 AM



#22
trans-1,2-Dichloroethene
Concen: 16.437 ppbv
RT: 4.96 min Scan# 630
Delta R.T. -0.00 min
Lab File: VL033440.D
Acq: 25 Mar 2019 14:28

Tgt Ion:	96	Resp:	584282
Ion	Ratio	Lower	Upper
96	100		
61	158.0	130.0	195.0
98	63.3	50.0	75.0





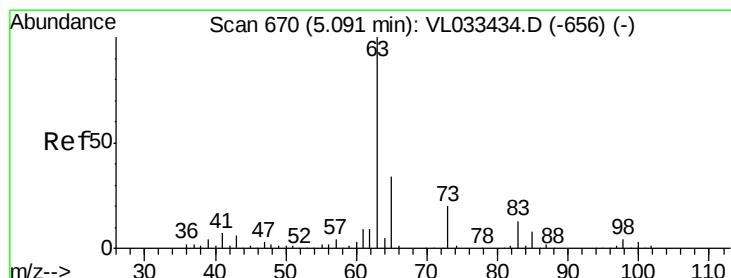
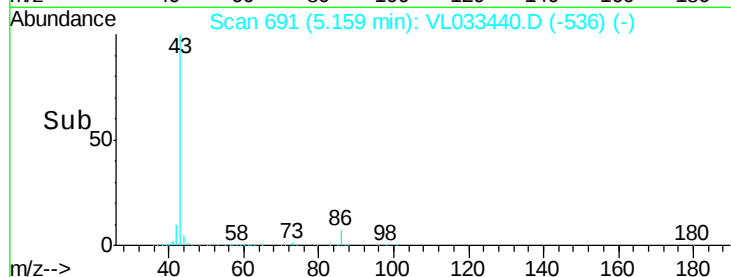
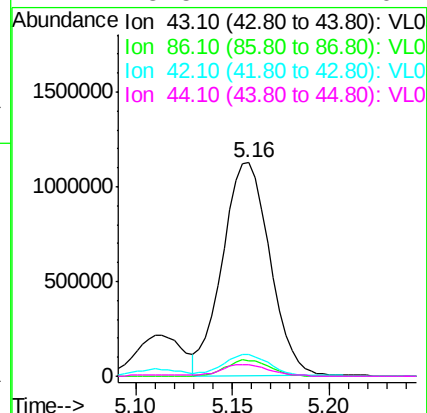
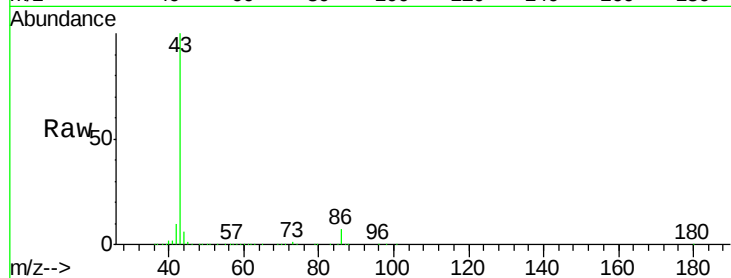
#23
 Vinyl Acetate
 Concen: 15.435 ppbv
 RT: 5.16 min Scan# 691
 Delta R.T. -0.00 min
 Lab File: VL033440.D
 Acq: 25 Mar 2019 14:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	43	Resp	1916836
Ion	Ratio	Lower	Upper
43	100		
86	7.4	6.2	9.2
42	9.9	8.1	12.1
44	5.5	4.1	6.1

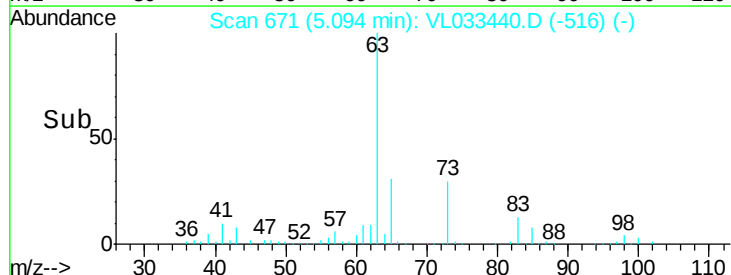
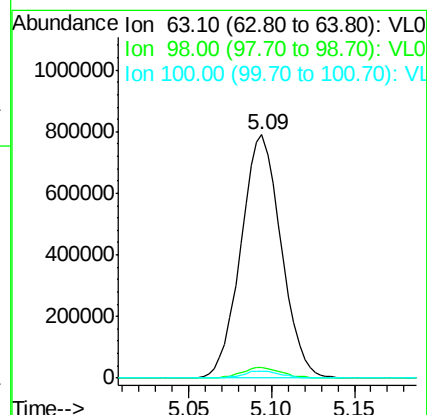
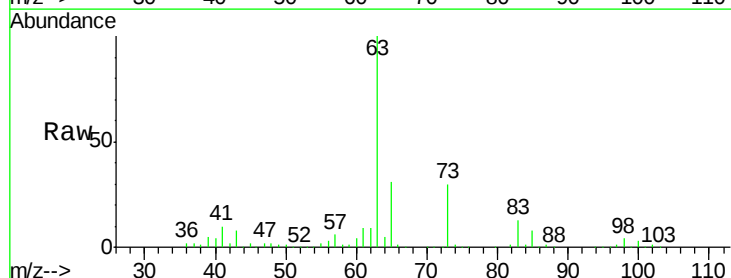
Manual Integrations
 APPROVED

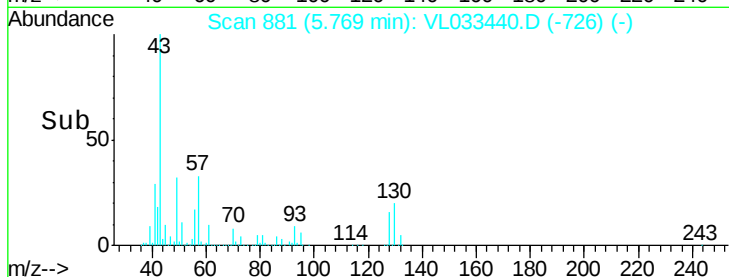
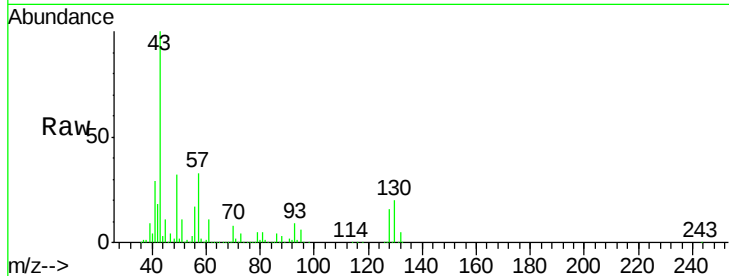
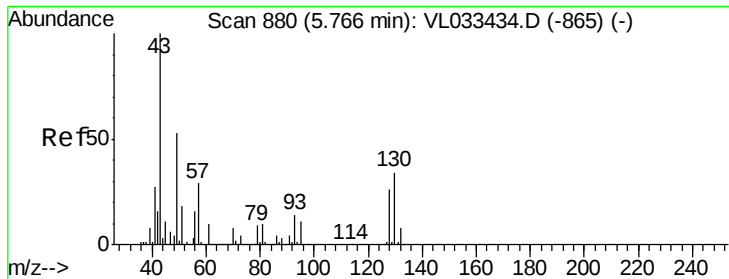
MMDadoda
 4/1/2019 1:22:49 AM



#24
 1,1-Dichloroethane
 Concen: 14.791 ppbv
 RT: 5.09 min Scan# 671
 Delta R.T. -0.00 min
 Lab File: VL033440.D
 Acq: 25 Mar 2019 14:28

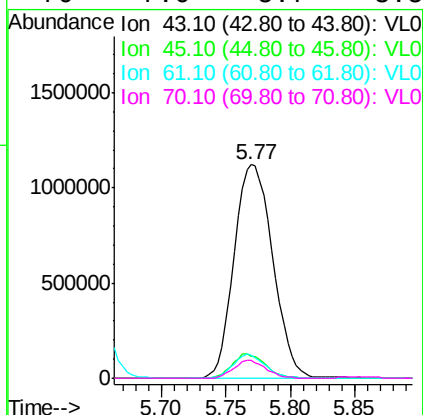
Tgt Ion	63	Resp	1326631
Ion	Ratio	Lower	Upper
63	100		
98	4.2	2.4	7.1
100	2.7	1.3	3.8





#25
Ethyl Acetate
Concen: 15.010 ppbv
RT: 5.77 min Scan# 881
Delta R.T. -0.00 min
Lab File: VL033440.D
Acq: 25 Mar 2019 14:28

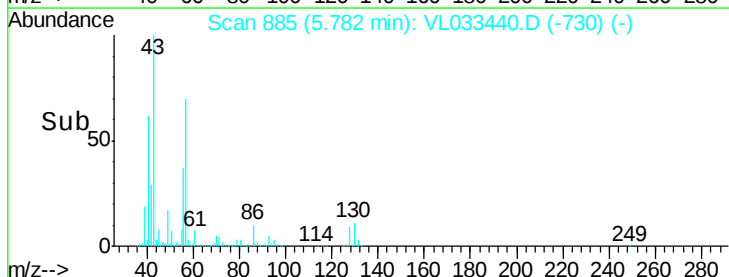
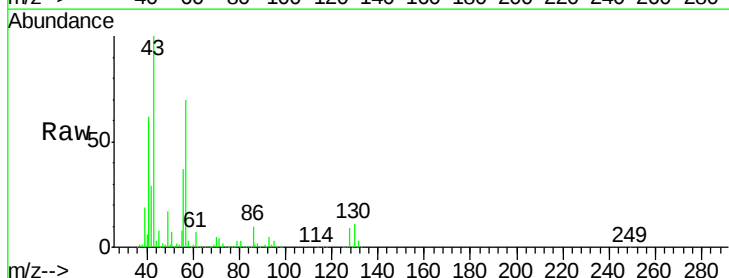
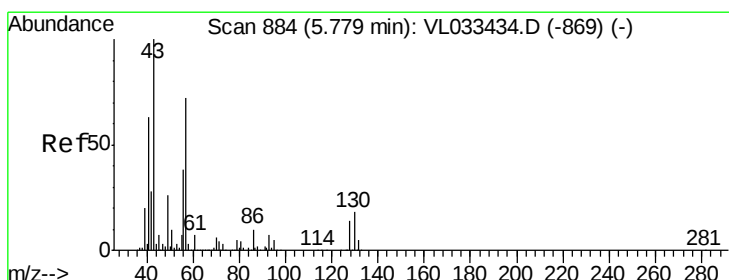
Tot Ion	43	Resp	2341874
Ion	Ratio	Lower	Upper
43	100		
45	9.8	7.9	11.9
61	9.3	7.4	11.2
70	7.0	5.7	8.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

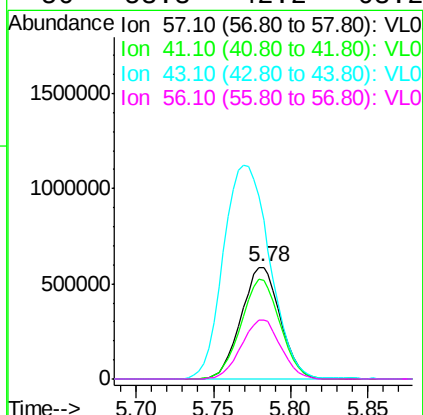
Manual Integrations
APPROVED

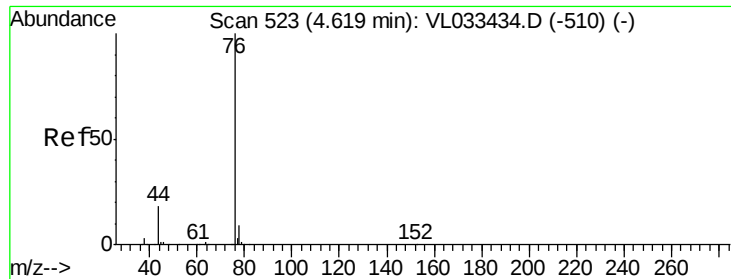
MMDadoda
4/1/2019 1:22:49 AM



#26
Hexane
Concen: 14.806 ppbv
RT: 5.78 min Scan# 885
Delta R.T. -0.00 min
Lab File: VL033440.D
Acq: 25 Mar 2019 14:28

Tgt Ion	57	Resp	1032727
Ion	Ratio	Lower	Upper
57	100		
41	89.6	70.5	105.7
43	227.3	181.8	272.8
56	53.3	42.2	63.2





#27

Carbon Disulfide

Concen: 18.026 ppbv

RT: 4.62 min Scan# 524

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 76 Resp: 1447458

Ion Ratio Lower Upper

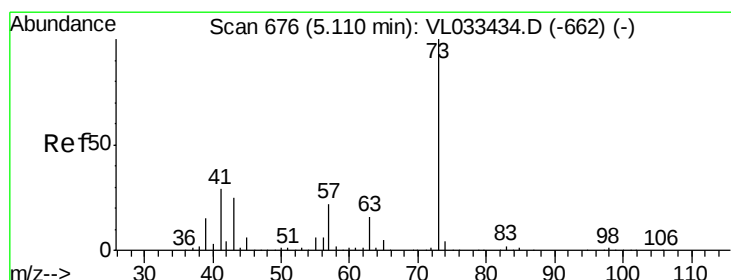
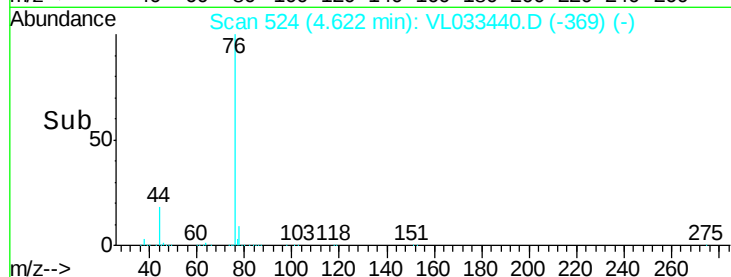
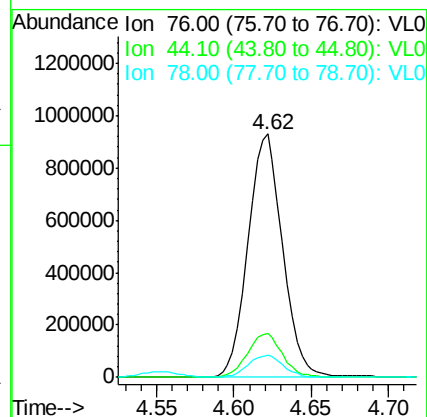
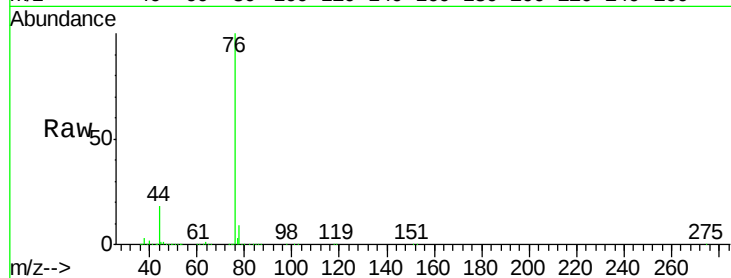
76 100

44 18.2 15.2 22.8

78 9.4 7.2 10.8

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:22:49 AM



#28

Methyl tert-Butyl Ether

Concen: 14.859 ppbv

RT: 5.11 min Scan# 677

Delta R.T. -0.00 min

Lab File: VL033440.D

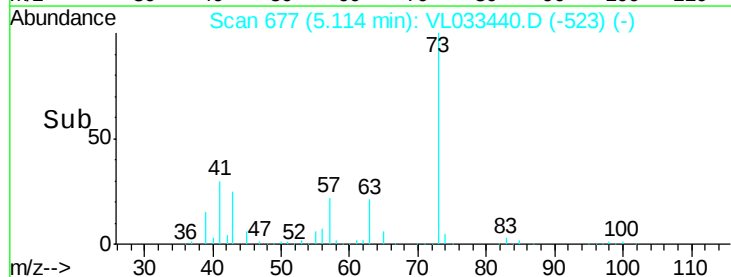
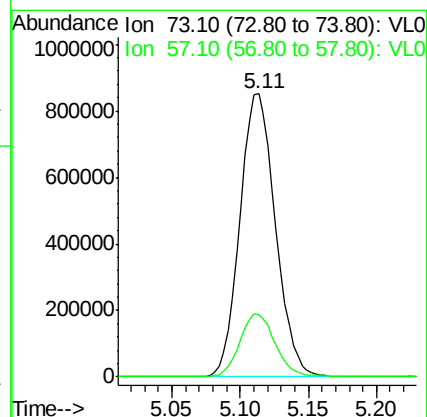
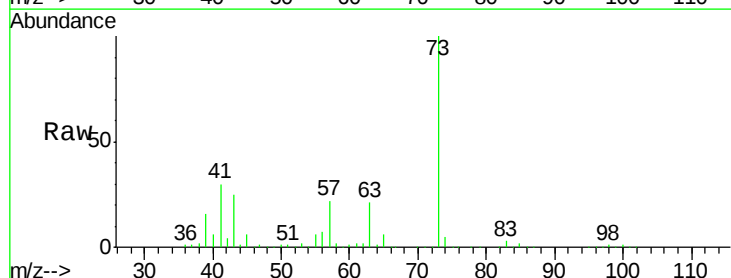
Acq: 25 Mar 2019 14:28

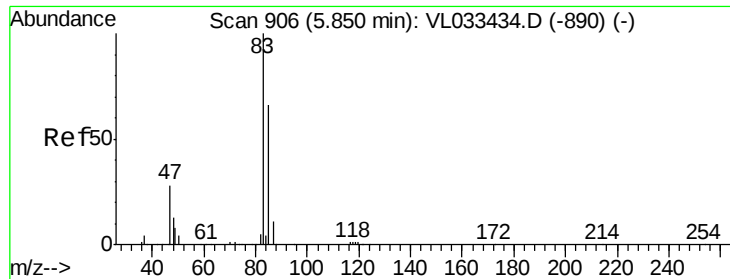
Tgt Ion: 73 Resp: 1539394

Ion Ratio Lower Upper

73 100

57 22.3 17.4 26.0





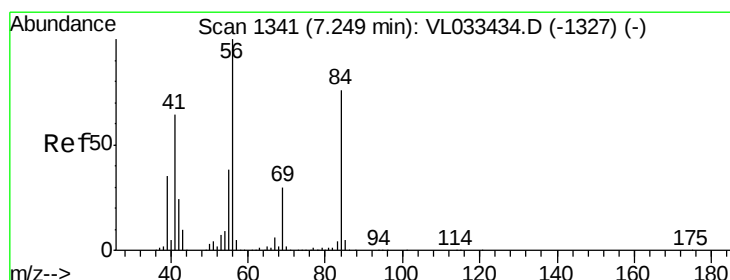
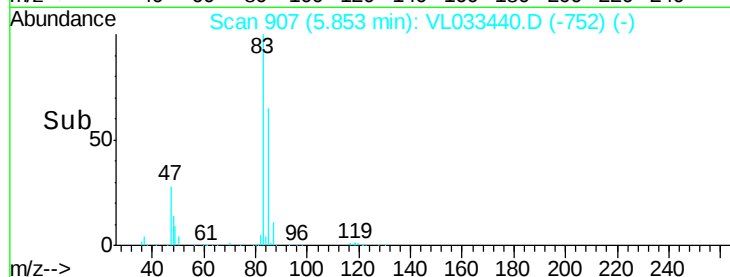
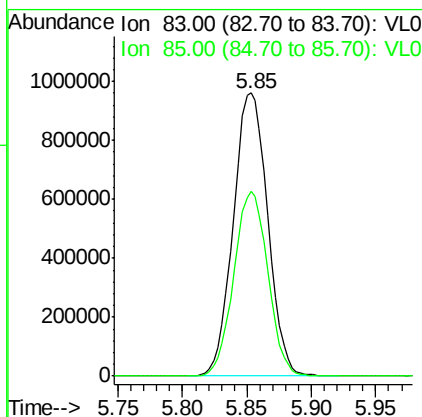
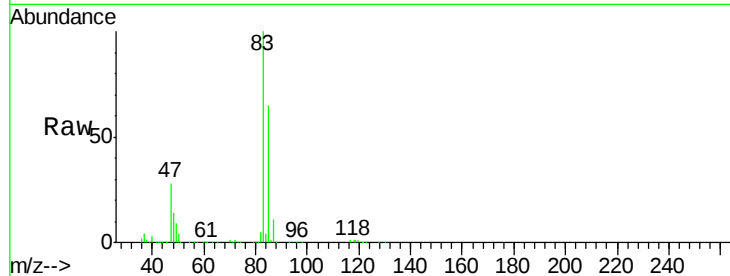
#29
Chloroform
Concen: 15.638 ppbv
RT: 5.85 min Scan# 907
Delta R.T. -0.00 min
Lab File: VL033440.D
Acq: 25 Mar 2019 14:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 1786032
Ion Ratio Lower Upper
83 100
85 65.3 52.0 78.0

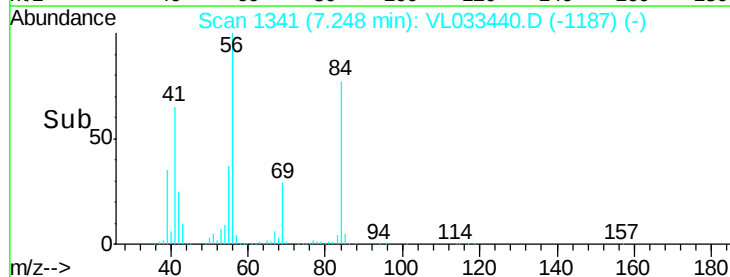
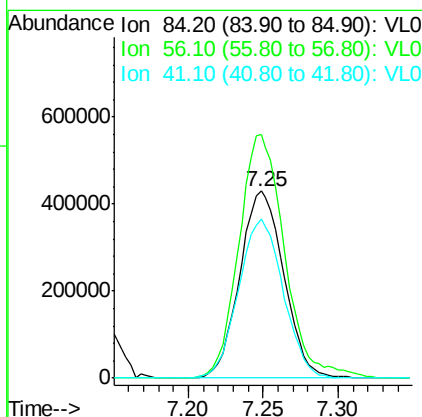
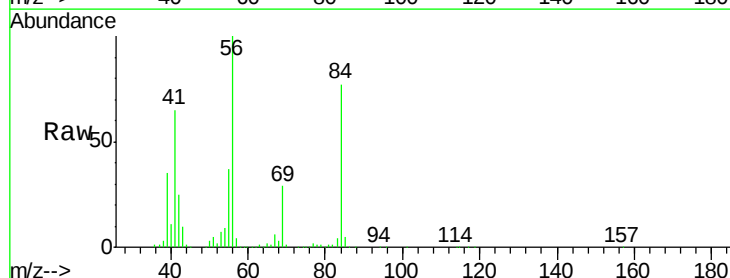
Manual Integrations
APPROVED

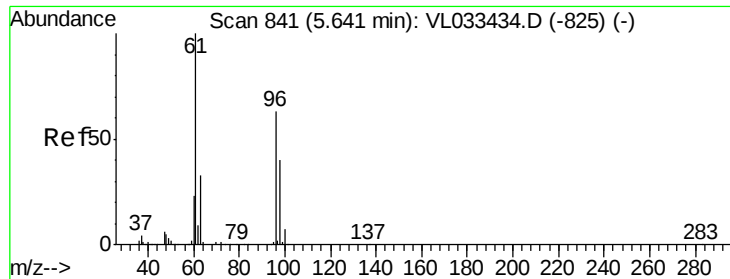
MMDadoda
4/1/2019 1:22:49 AM



#30
Cyclohexane
Concen: 15.665 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. -0.00 min
Lab File: VL033440.D
Acq: 25 Mar 2019 14:28

Tgt Ion: 84 Resp: 876049
Ion Ratio Lower Upper
84 100
56 136.0 111.3 166.9
41 86.7 69.6 104.4





#31

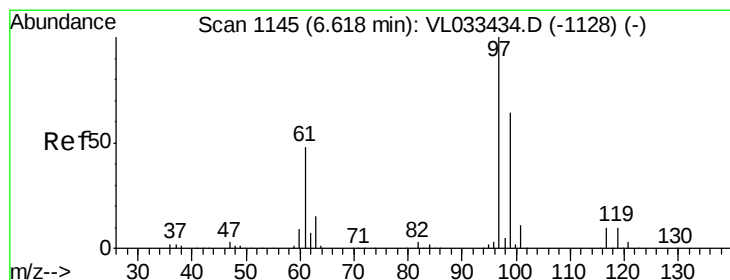
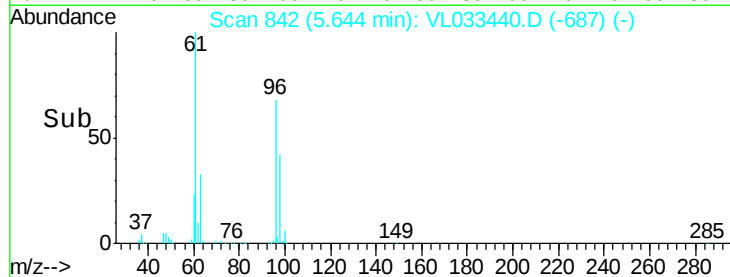
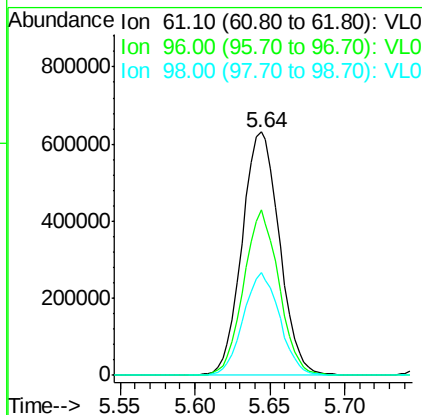
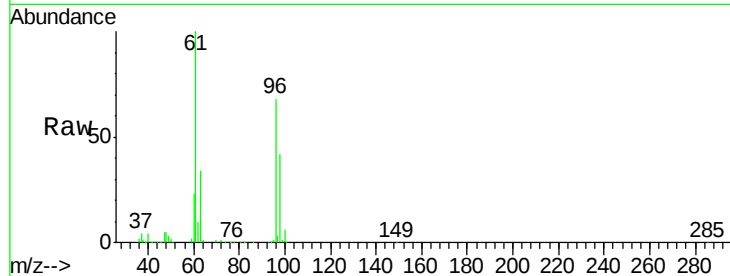
cis-1,2-Dichloroethene
 Concen: 15.786 ppbv
 RT: 5.64 min Scan# 842
 Delta R.T. -0.00 min
 Lab File: VL033440.D
 Acq: 25 Mar 2019 14:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
61	100		
96	68.1	50.3	75.5
98	42.4	31.5	47.3

Manual Integrations
 APPROVED

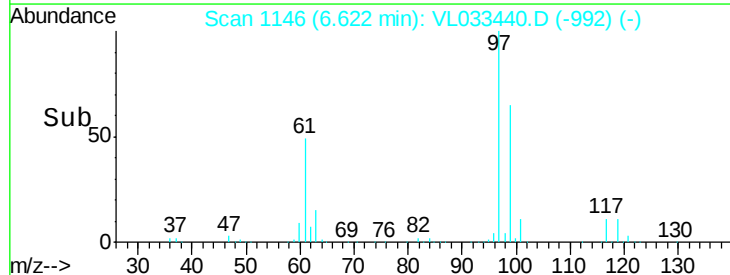
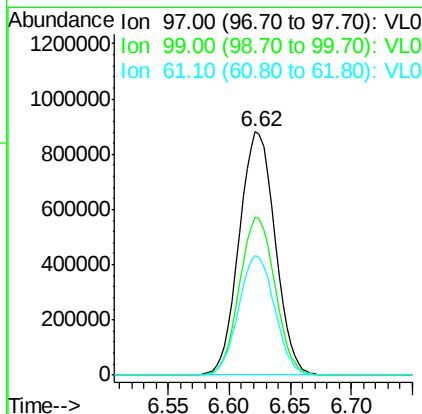
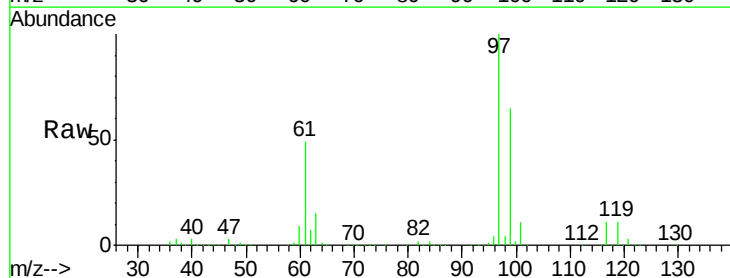
MMDadoda
 4/1/2019 1:22:49 AM

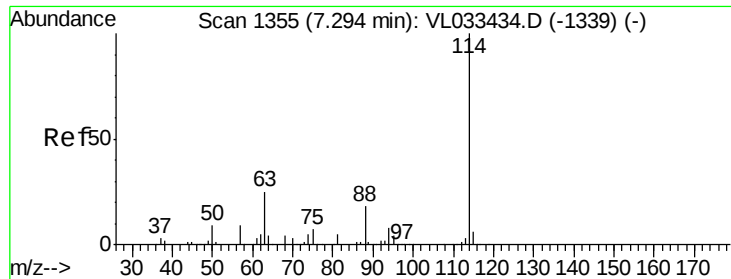


#32

1,1,1-Trichloroethane
 Concen: 15.970 ppbv
 RT: 6.62 min Scan# 1146
 Delta R.T. -0.00 min
 Lab File: VL033440.D
 Acq: 25 Mar 2019 14:28

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.0	76.6
61	49.4	39.3	58.9





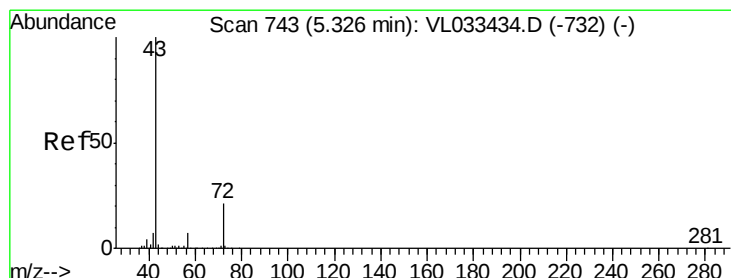
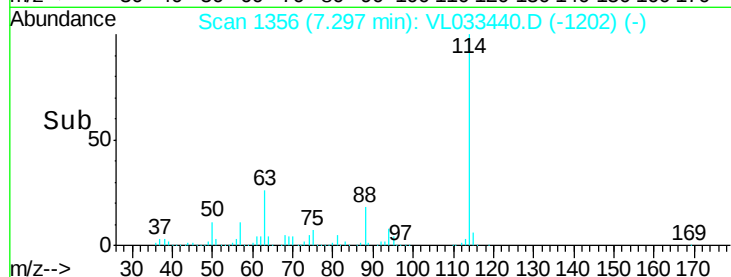
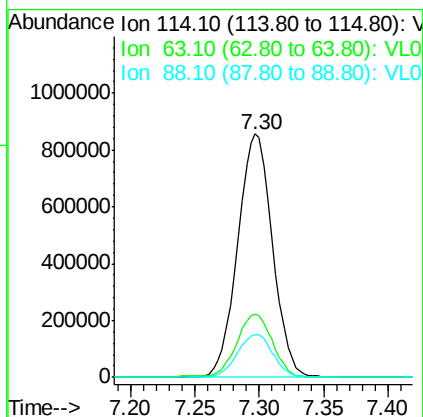
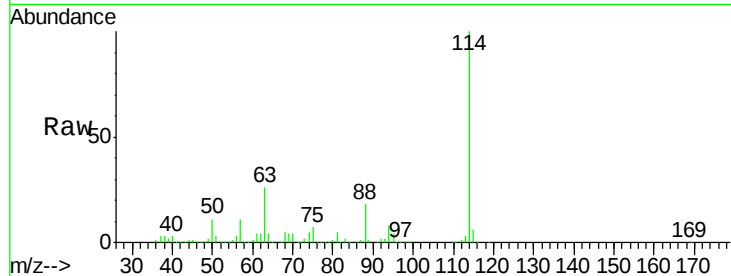
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. -0.00 min
 Lab File: VL033440.D
 Acq: 25 Mar 2019 14:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.2	21.4	32.2
88	18.0	14.5	21.7

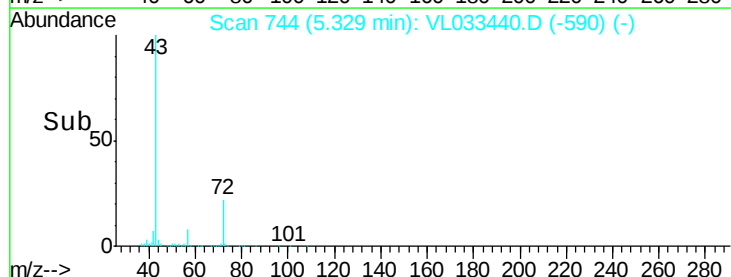
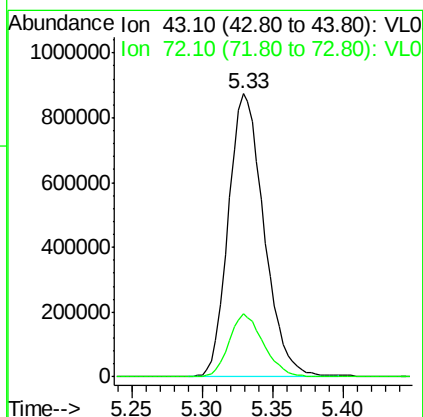
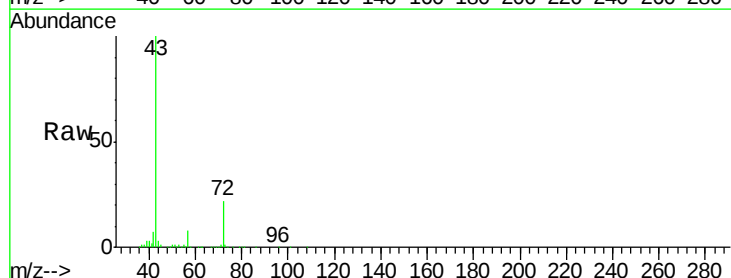
Manual Integrations
 APPROVED

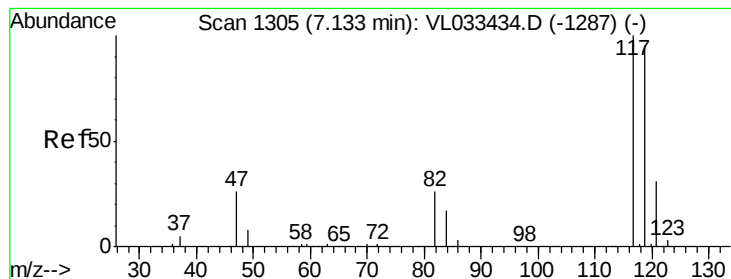
MMDadoda
 4/1/2019 1:22:49 AM



#34
 2-Butanone
 Concen: 14.615 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. -0.00 min
 Lab File: VL033440.D
 Acq: 25 Mar 2019 14:28

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.7	17.7	26.5





#35

Carbon Tetrachloride

Concen: 16.848 ppbv

RT: 7.14 min Scan# 1306

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:117 Resp: 1909733

Ion Ratio Lower Upper

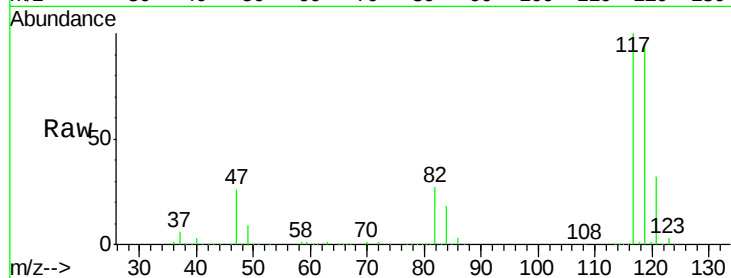
117 100

119 94.5 77.4 116.0

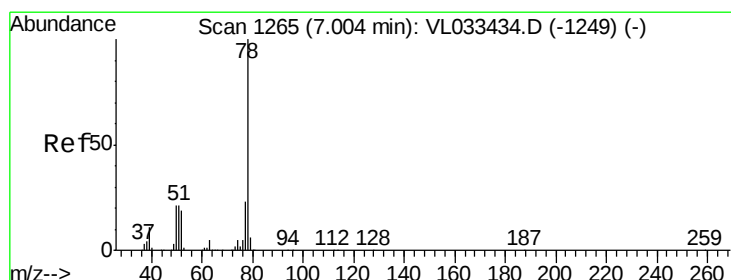
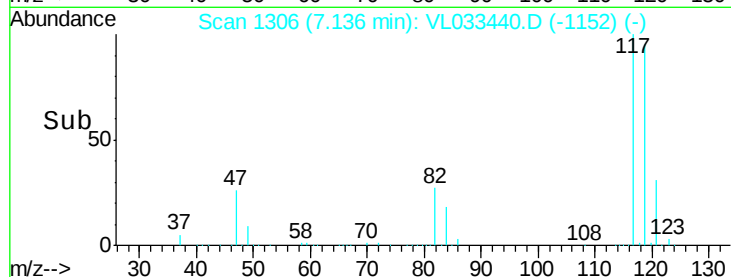
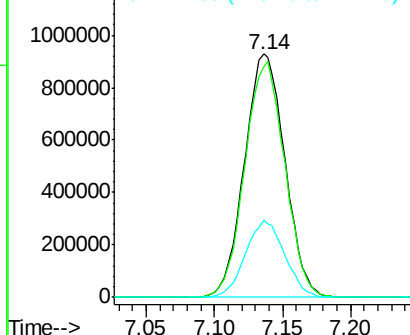
121 31.5 24.9 37.3

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:22:49 AM



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: 15.034 ppbv

RT: 7.01 min Scan# 1267

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

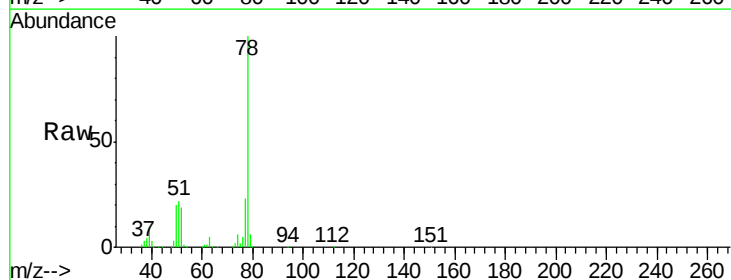
Tgt Ion: 78 Resp: 2163147

Ion Ratio Lower Upper

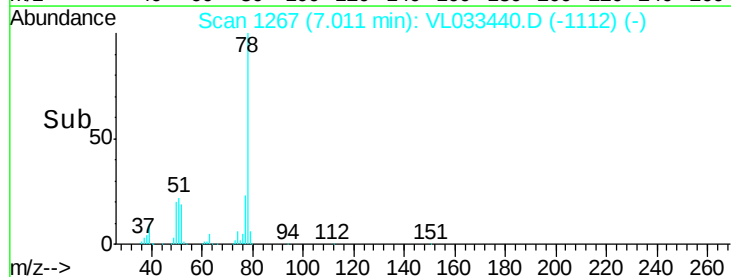
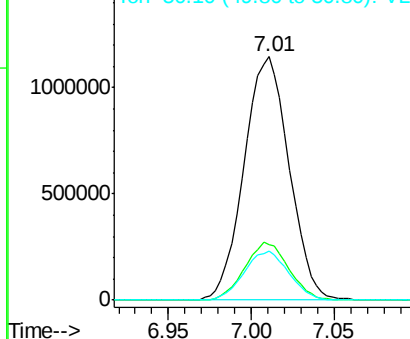
78 100

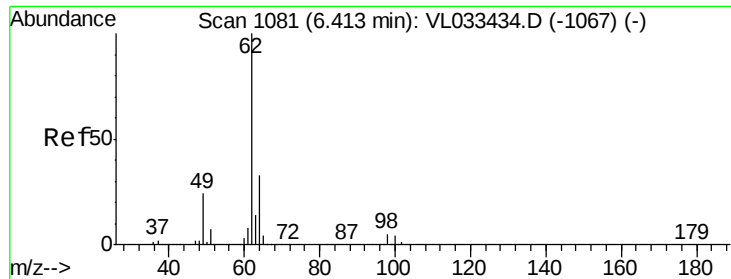
77 22.8 18.1 27.1

50 20.0 15.2 22.8



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





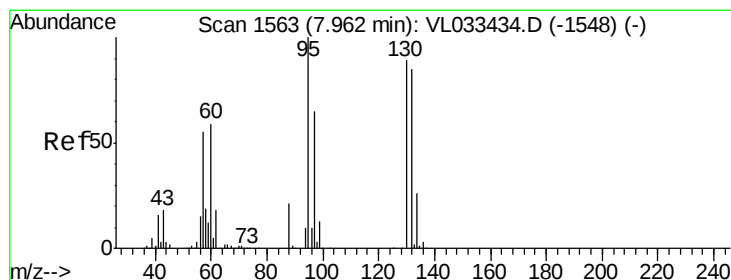
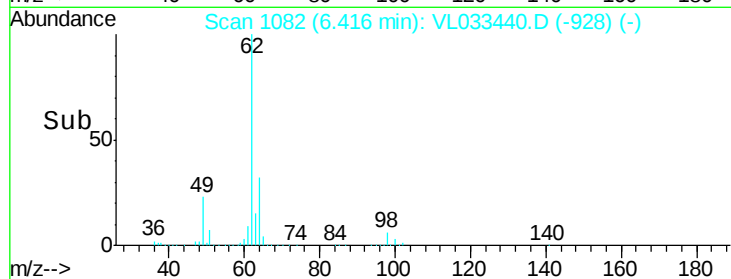
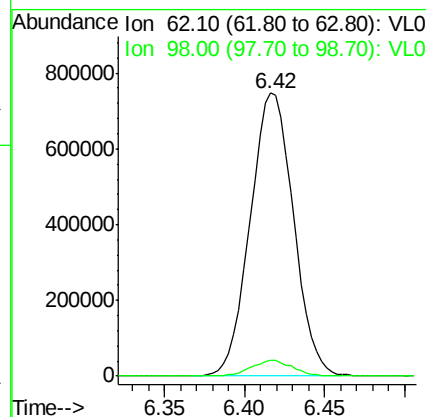
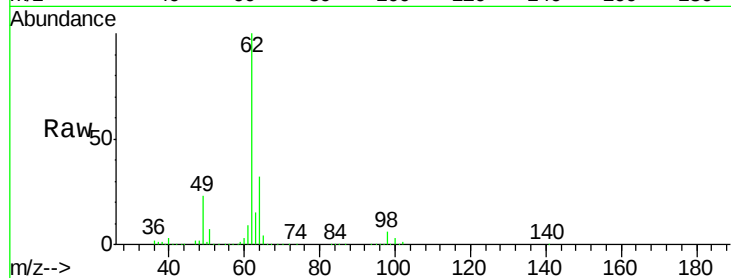
#37
 1,2-Dichloroethane
 Concen: 15.281 ppbv
 RT: 6.42 min Scan# 1082
 Delta R.T. -0.00 min
 Lab File: VL033440.D
 Acq: 25 Mar 2019 14:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 62 Resp: 1390295
 Ion Ratio Lower Upper
 62 100
 98 5.4 4.5 6.7

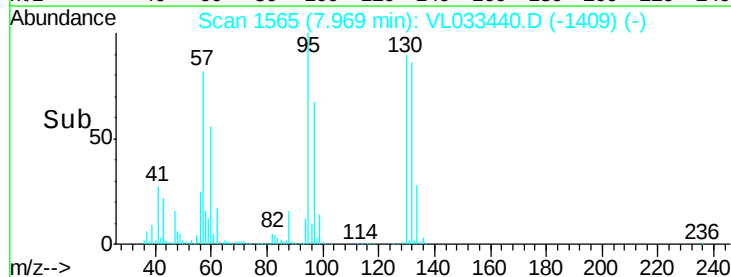
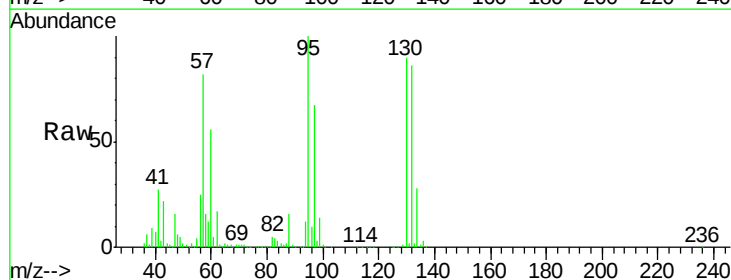
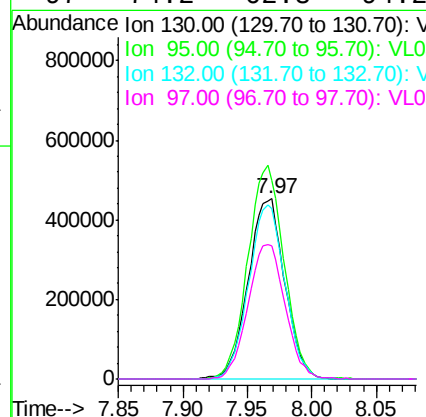
Manual Integrations
 APPROVED

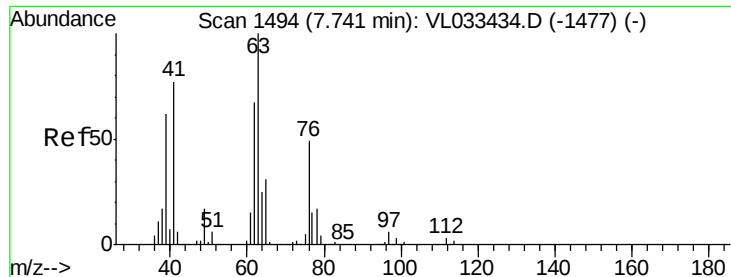
MMDadoda
 4/1/2019 1:22:49 AM



#38
 Trichloroethene
 Concen: 16.342 ppbv
 RT: 7.97 min Scan# 1565
 Delta R.T. 0.00 min
 Lab File: VL033440.D
 Acq: 25 Mar 2019 14:28

Tgt Ion:130 Resp: 889795
 Ion Ratio Lower Upper
 130 100
 95 110.7 95.2 142.8
 132 95.0 77.7 116.5
 97 74.2 62.8 94.2





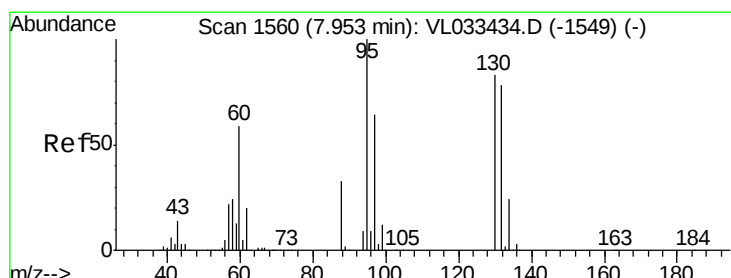
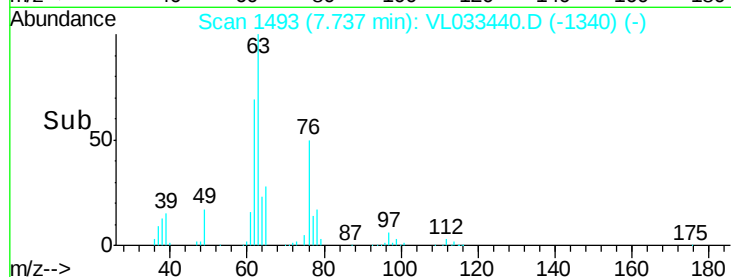
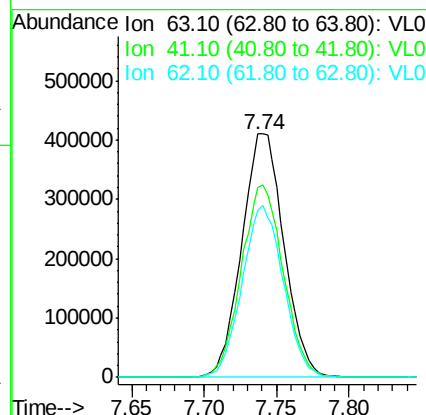
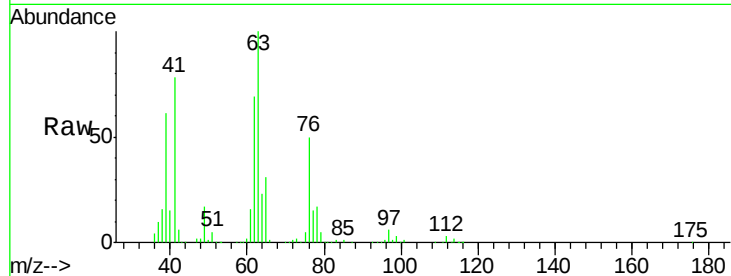
#39
 1,2-Dichloropropane
 Concen: 15.389 ppbv
 RT: 7.74 min Scan# 1493
 Delta R.T. -0.01 min
 Lab File: VL033440.D
 Acq: 25 Mar 2019 14:28

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
63	100		
41	77.9	59.5	89.3
62	68.6	54.7	82.1

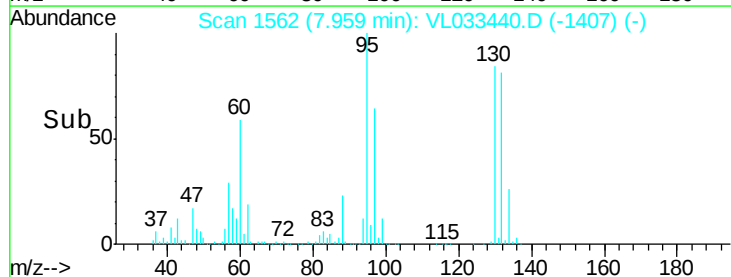
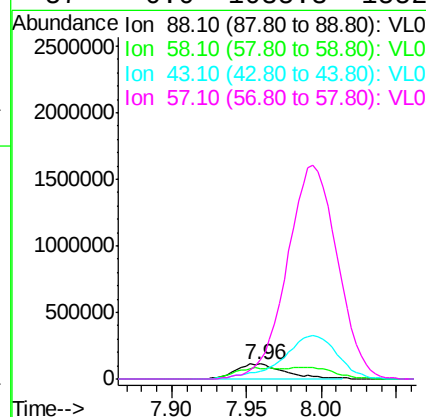
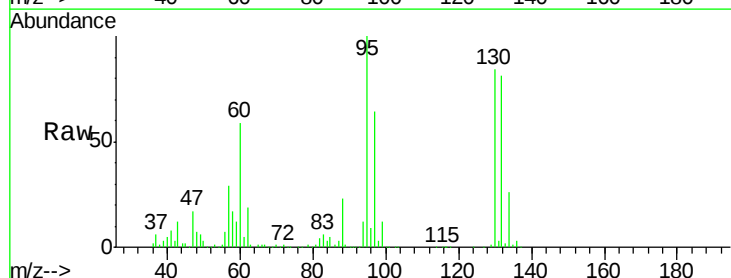
Manual Integrations
 APPROVED

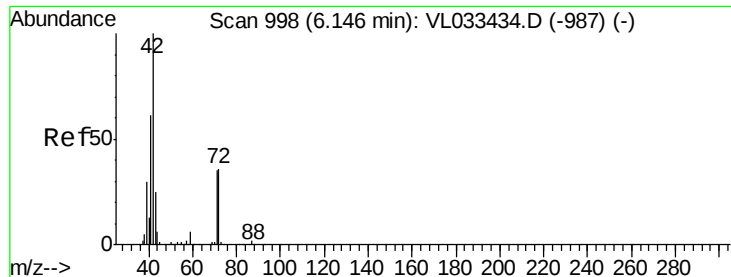
MMDadoda
 4/1/2019 1:22:49 AM



#40
 1,4-Dioxane
 Concen: 13.417 ppbv
 RT: 7.96 min Scan# 1562
 Delta R.T. -0.00 min
 Lab File: VL033440.D
 Acq: 25 Mar 2019 14:28

Tgt Ion	Ratio	Lower	Upper
88	100		
58	71.8	107.9	161.9#
43	0.0	230.8	346.2#
57	0.0	1035.3	1552.9#





#41

Tetrahydrofuran

Concen: 15.727 ppbv

RT: 6.15 min Scan# 999

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

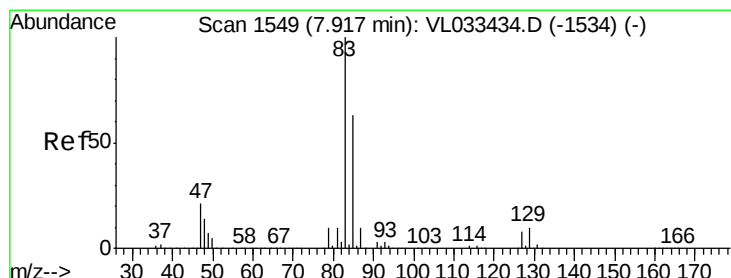
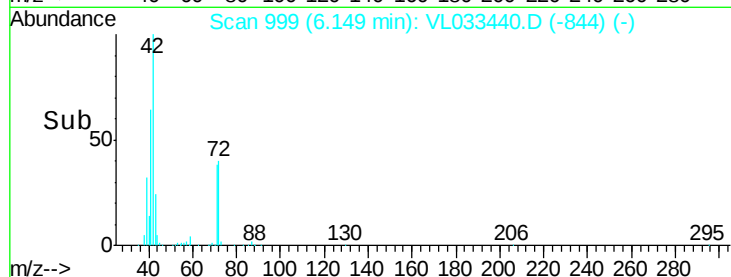
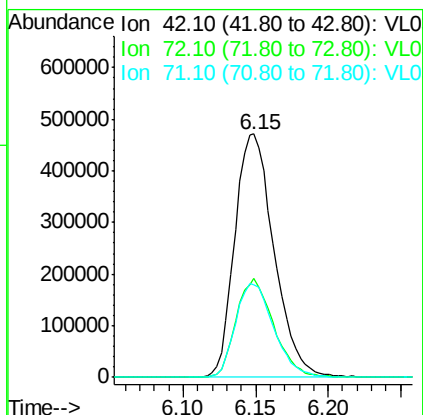
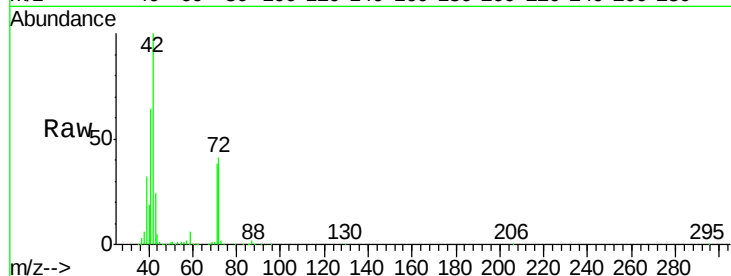
ClientSampleId :

VSTDIC015

Tot Ion:	42	Resp:	886169
Ion	Ratio	Lower	Upper
42	100		
72	39.1	31.6	47.4
71	37.7	29.9	44.9

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:22:49 AM



#42

Bromodichloromethane

Concen: 16.819 ppbv

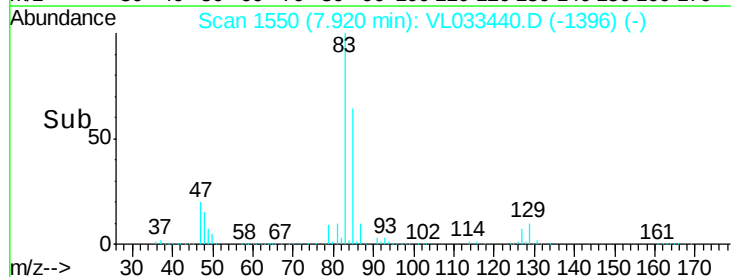
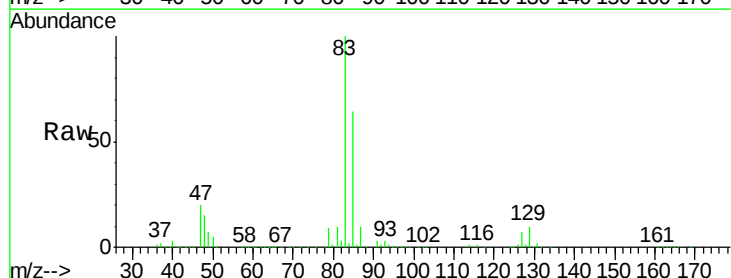
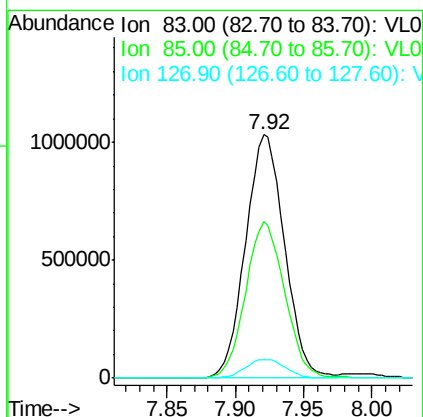
RT: 7.92 min Scan# 1550

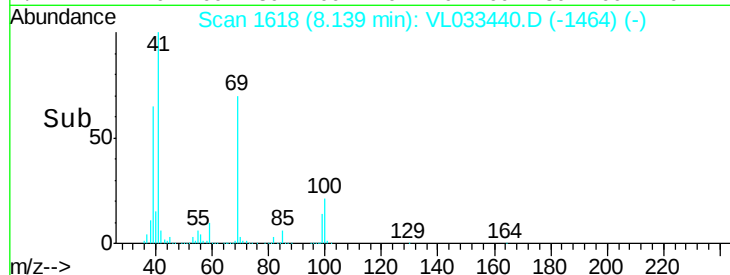
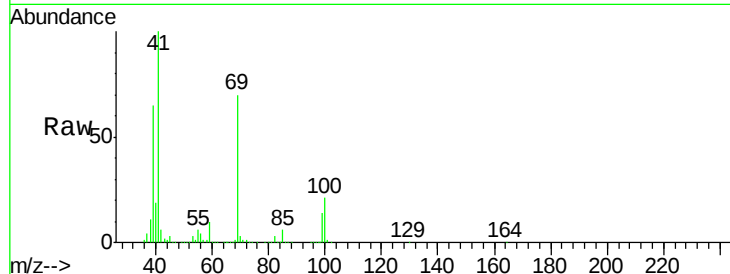
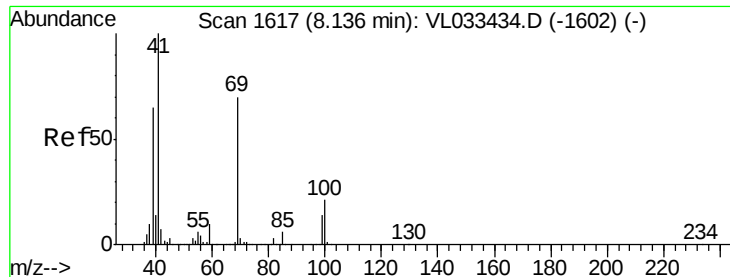
Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Tgt Ion:	83	Resp:	2051588
Ion	Ratio	Lower	Upper
83	100		
85	64.4	51.8	77.6
127	7.5	6.2	9.2





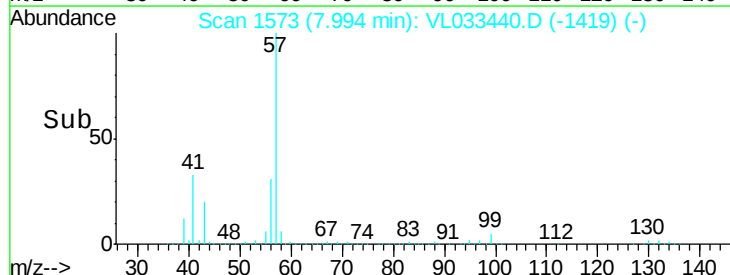
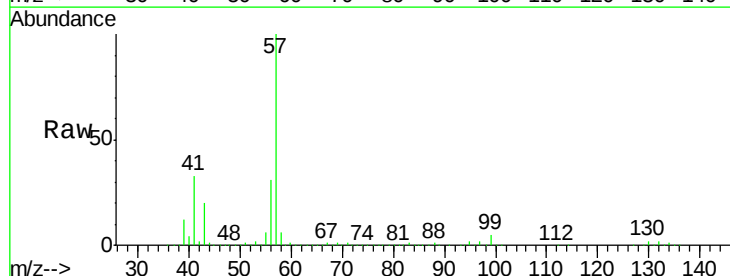
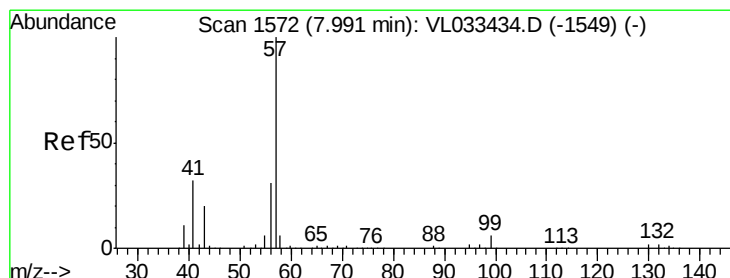
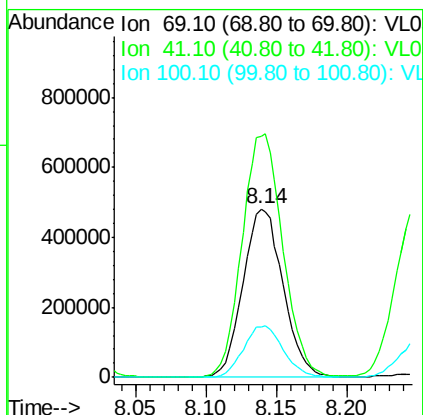
#43
Methyl Methacrylate
Concen: 17.079 ppbv
RT: 8.14 min Scan# 1618
Delta R.T. -0.00 min
Lab File: VL033440.D
Acq: 25 Mar 2019 14:28

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	147.0	119.5	179.3	
100	30.5	24.4	36.6	

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

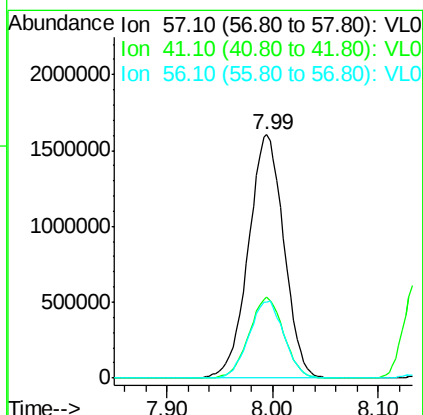
Manual Integrations
APPROVED

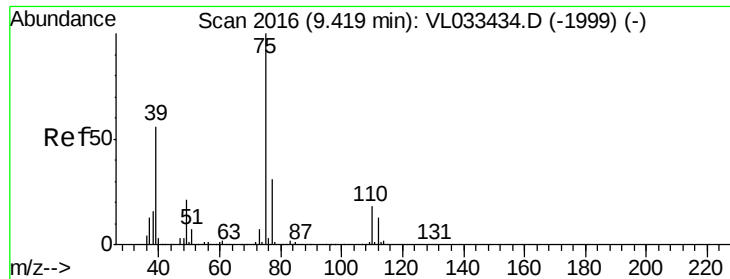
MMDadoda
4/1/2019 1:22:49 AM



#44
2,2,4-Trimethylpentane
Concen: 15.726 ppbv
RT: 7.99 min Scan# 1573
Delta R.T. -0.00 min
Lab File: VL033440.D
Acq: 25 Mar 2019 14:28

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	32.5	26.0	39.0	
56	31.3	24.6	36.8	





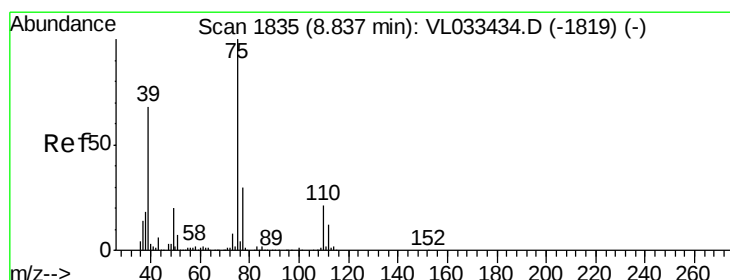
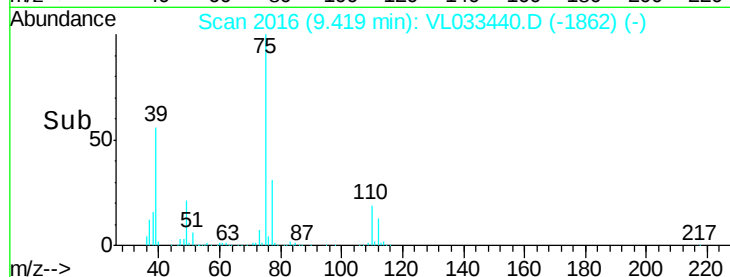
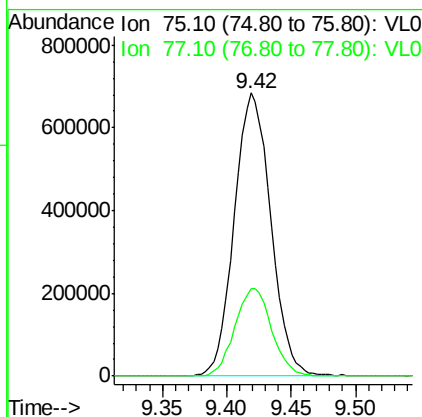
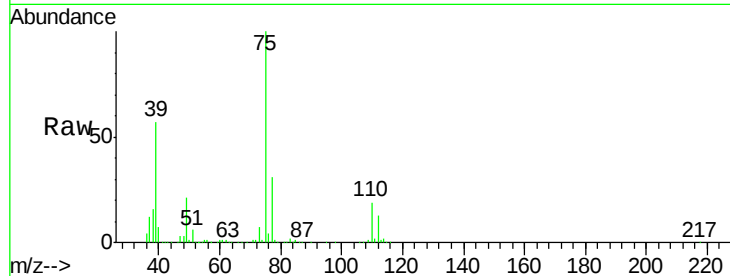
#45
t-1,3-Dichloropropene
Concen: 19.484 ppbv
RT: 9.42 min Scan# 2016
Delta R.T. -0.00 min
Lab File: VL033440.D
Acq: 25 Mar 2019 14:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 75 Resp: 1347704
Ion Ratio Lower Upper
75 100
77 31.0 25.5 38.3

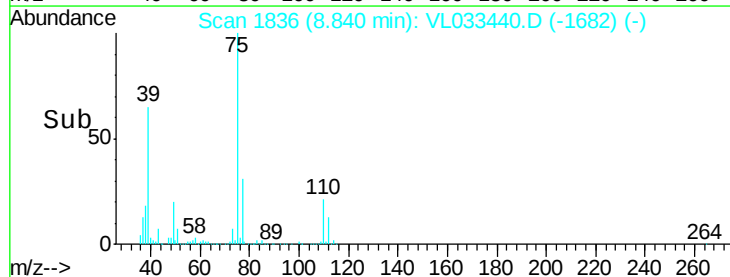
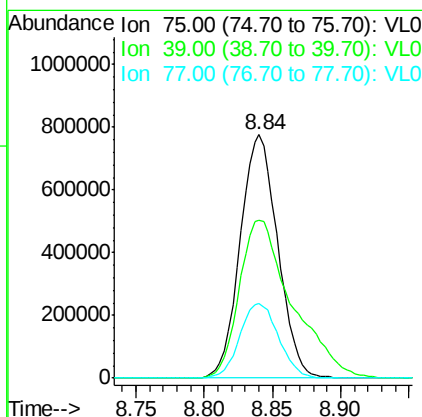
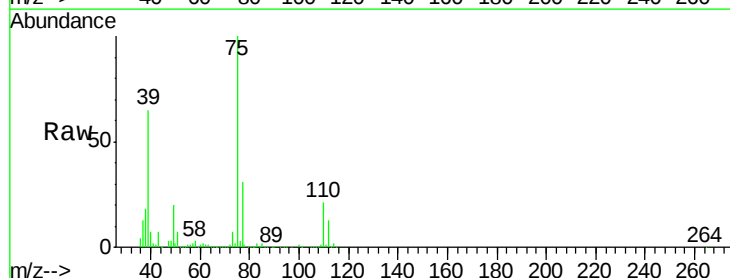
Manual Integrations
APPROVED

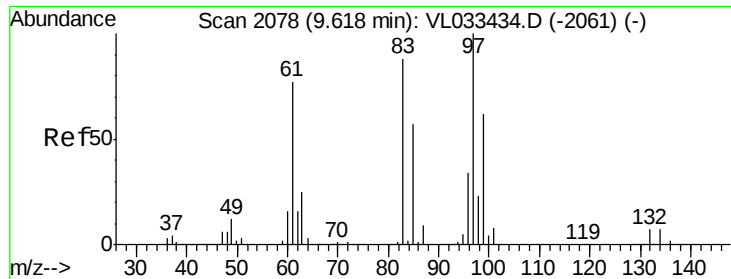
MMDadoda
4/1/2019 1:22:49 AM



#46
cis-1,3-Dichloropropene
Concen: 18.213 ppbv
RT: 8.84 min Scan# 1836
Delta R.T. -0.00 min
Lab File: VL033440.D
Acq: 25 Mar 2019 14:28

Tgt Ion: 75 Resp: 1483381
Ion Ratio Lower Upper
75 100
39 64.7 55.0 82.6
77 30.8 24.5 36.7





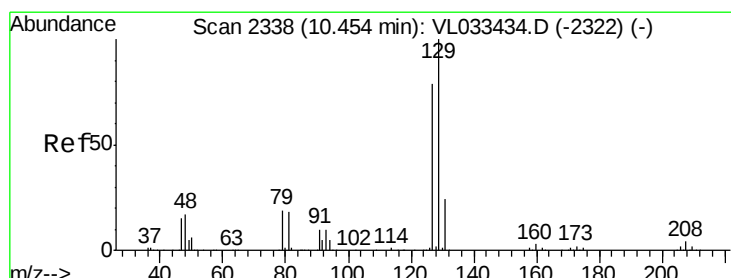
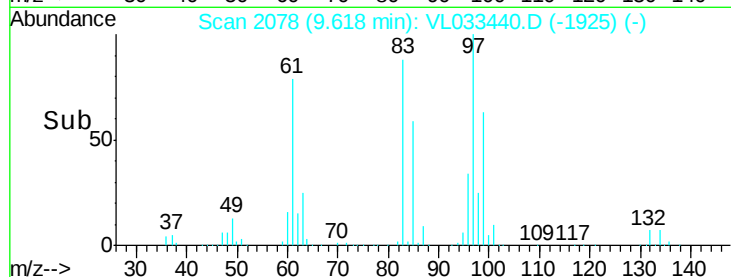
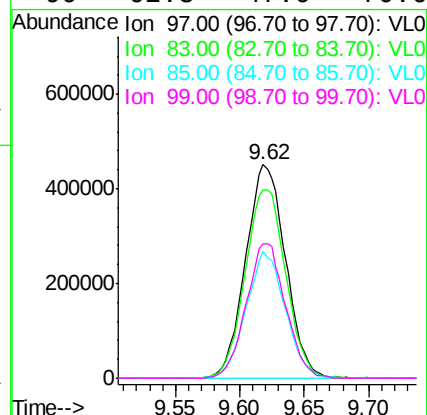
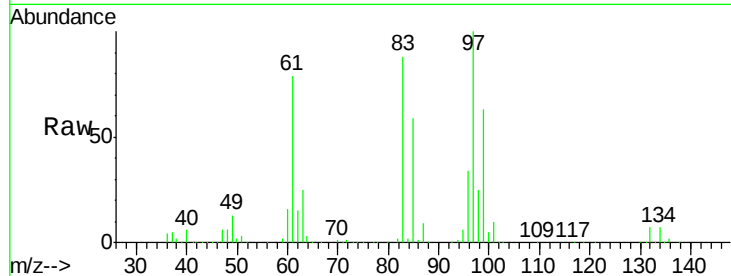
#47
 1,1,2-Trichloroethane
 Concen: 16.340 ppbv
 RT: 9.62 min Scan# 2078
 Delta R.T. -0.01 min
 Lab File: VL033440.D
 Acq: 25 Mar 2019 14:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
97	100		
83	88.1	67.4	101.0
85	59.4	43.0	64.4
99	62.8	47.0	70.6

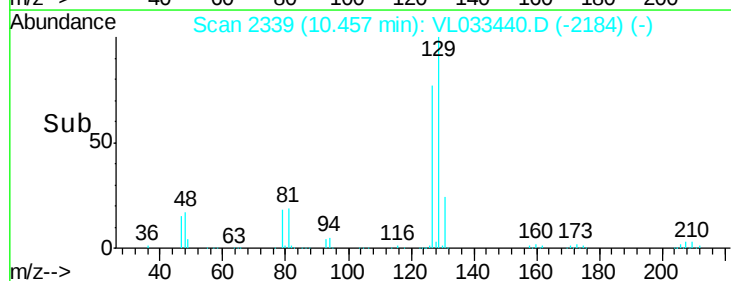
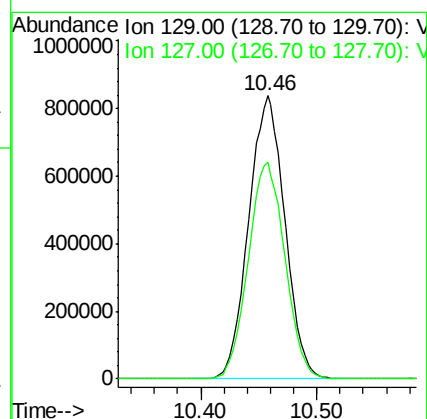
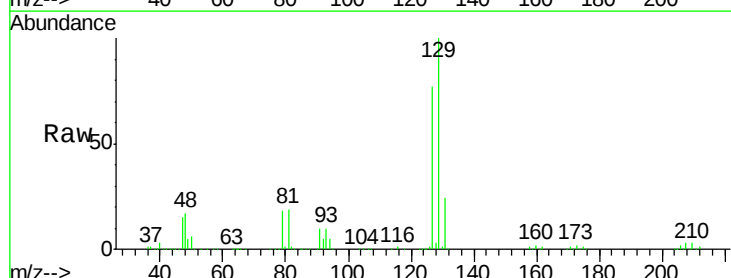
Manual Integrations
 APPROVED

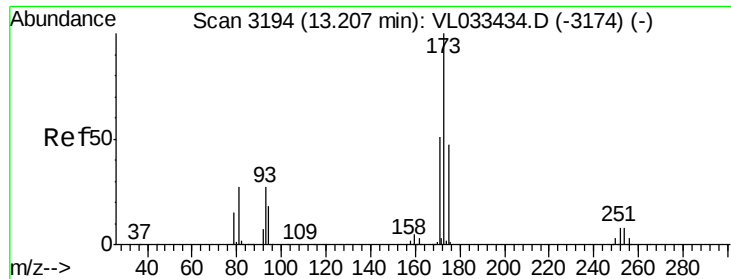
MMDadoda
 4/1/2019 1:22:49 AM



#48
 Dibromochloromethane
 Concen: 18.176 ppbv
 RT: 10.46 min Scan# 2339
 Delta R.T. -0.00 min
 Lab File: VL033440.D
 Acq: 25 Mar 2019 14:28

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.6	38.9	116.6





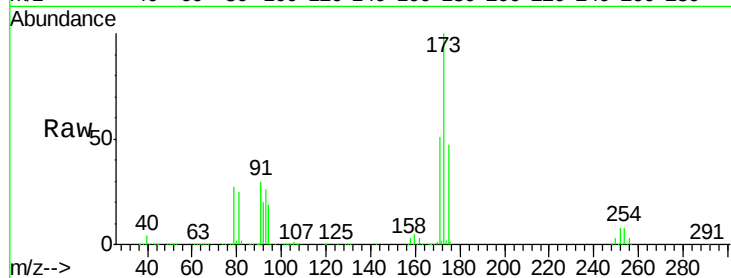
#49
Bromoform
Concen: 17.687 ppbv
RT: 13.21 min Scan# 3194
Delta R.T. -0.00 min
Lab File: VL033440.D
Acq: 25 Mar 2019 14:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

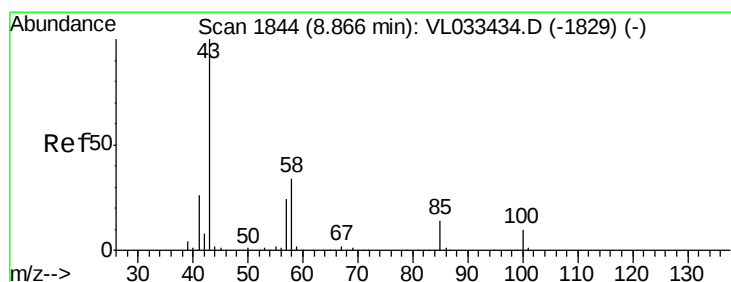
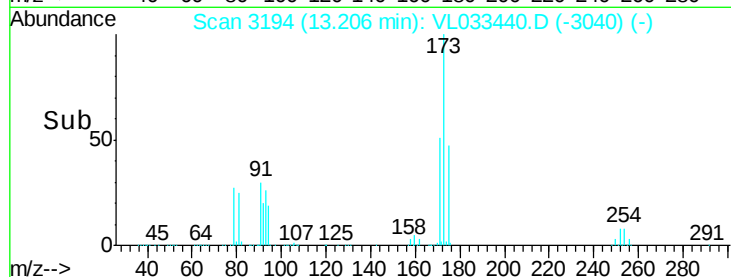
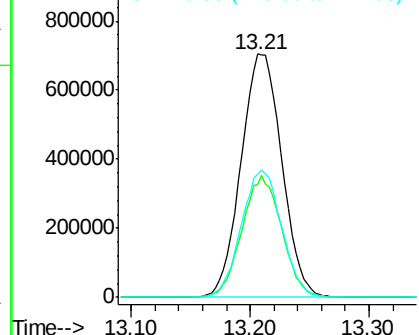
Tot Ion:173 Resp: 1675272
Ion Ratio Lower Upper
173 100
175 48.6 39.0 58.6
171 51.7 41.7 62.5

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:22:49 AM

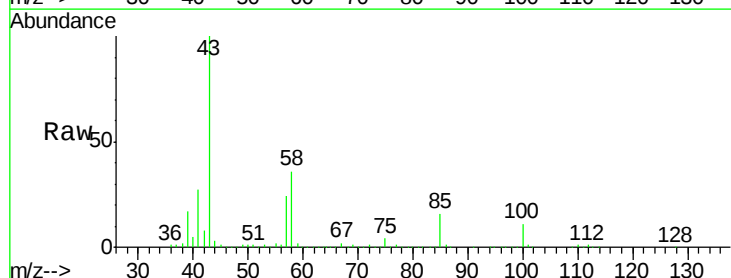


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

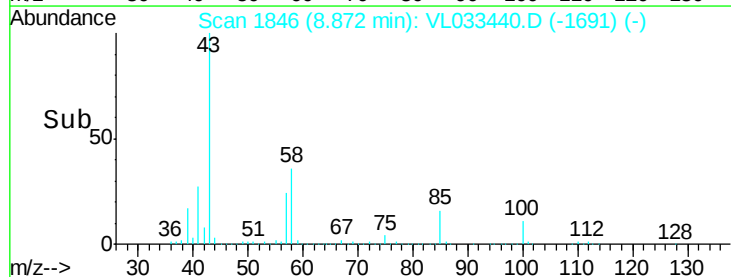
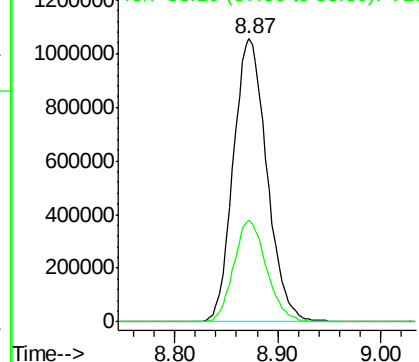


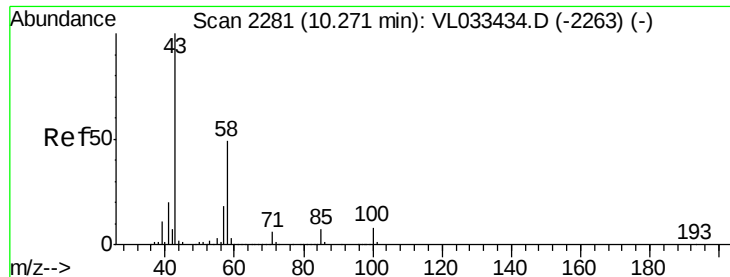
#50
4-Methyl-2-Pentanone
Concen: 16.018 ppbv
RT: 8.87 min Scan# 1846
Delta R.T. -0.00 min
Lab File: VL033440.D
Acq: 25 Mar 2019 14:28

Tgt Ion: 43 Resp: 2388920
Ion Ratio Lower Upper
43 100
58 35.3 28.4 42.6



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 16.670 ppbv

RT: 10.27 min Scan# 2282

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 1918107

Ion Ratio Lower Upper

43 100

58 47.7 38.0 57.0

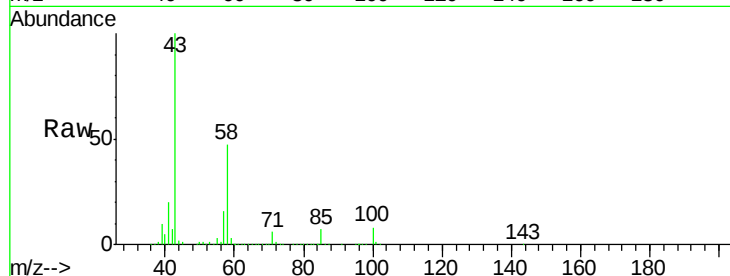
98 0.2 0.1 0.1#

Manual Integrations

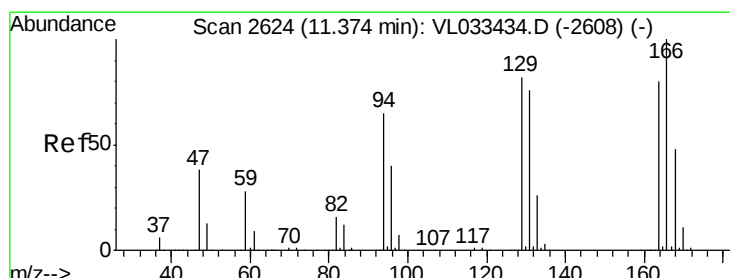
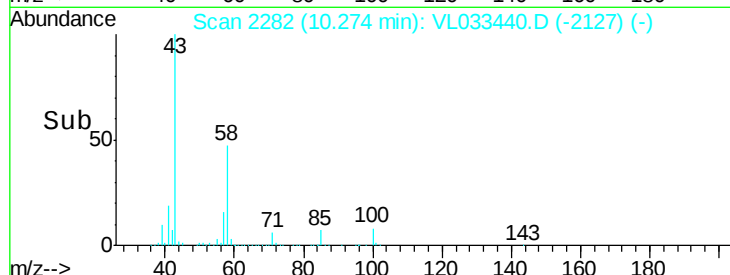
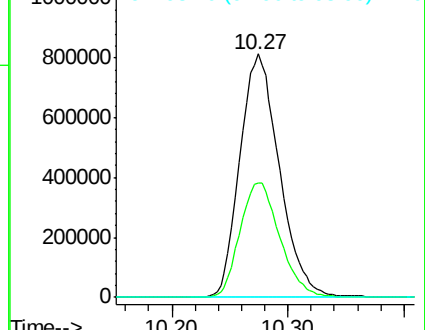
APPROVED

MMDadoda

4/1/2019 1:22:49 AM



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 14.920 ppbv

RT: 11.38 min Scan# 2625

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Tgt Ion:164 Resp: 894365

Ion Ratio Lower Upper

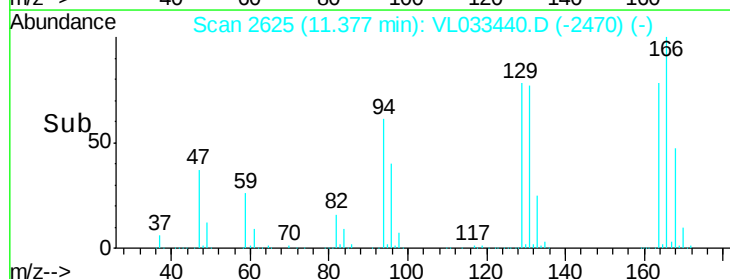
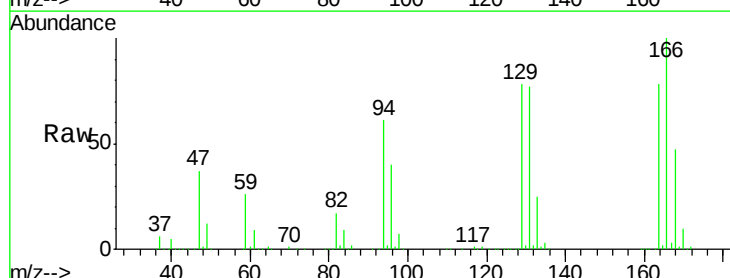
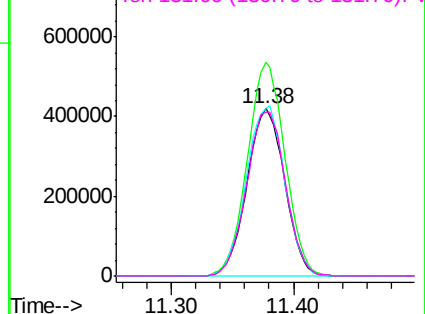
164 100

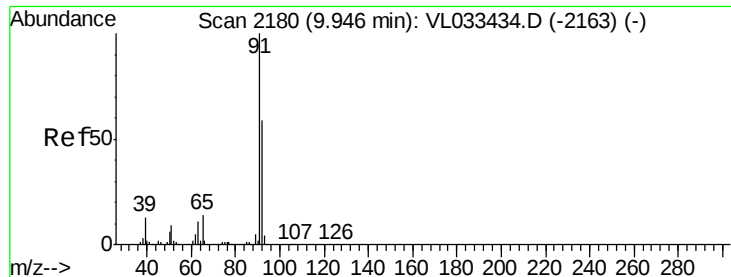
166 127.7 101.5 152.3

129 100.2 82.2 123.2

131 97.9 81.1 121.7

Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 16.987 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 2777257

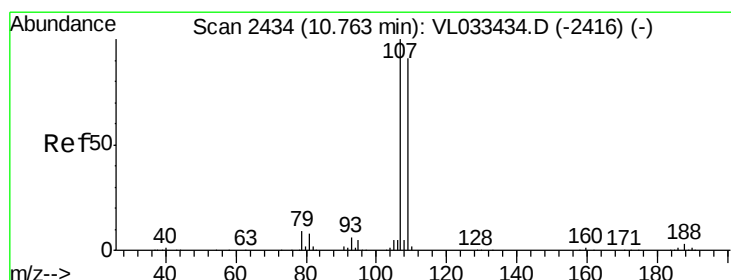
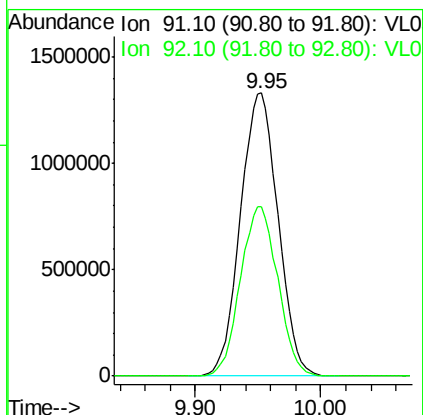
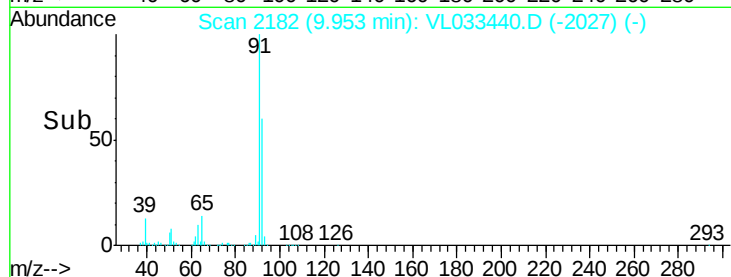
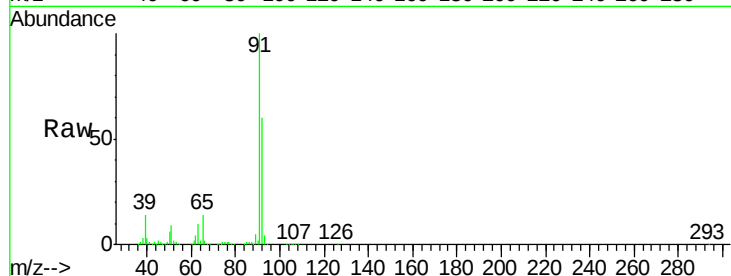
Ion Ratio Lower Upper

91 100

92 59.7 47.4 71.0

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:22:49 AM



#54

1,2-Dibromoethane

Concen: 15.865 ppbv

RT: 10.77 min Scan# 2435

Delta R.T. -0.00 min

Lab File: VL033440.D

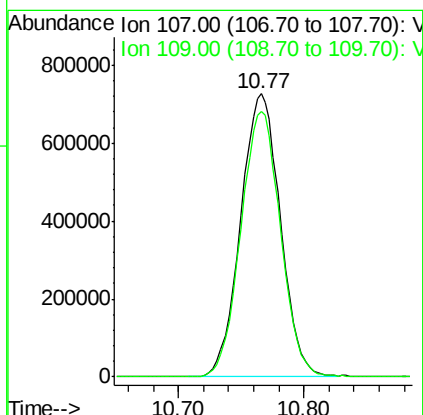
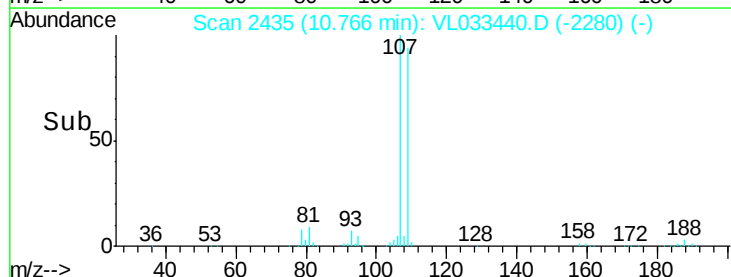
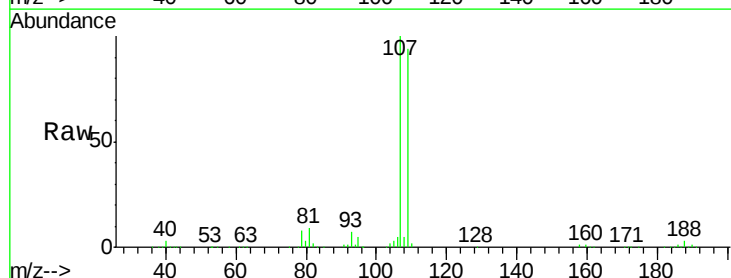
Acq: 25 Mar 2019 14:28

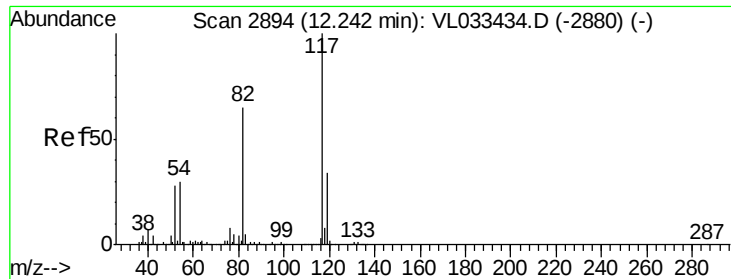
Tgt Ion: 107 Resp: 1596699

Ion Ratio Lower Upper

107 100

109 93.8 77.2 115.8





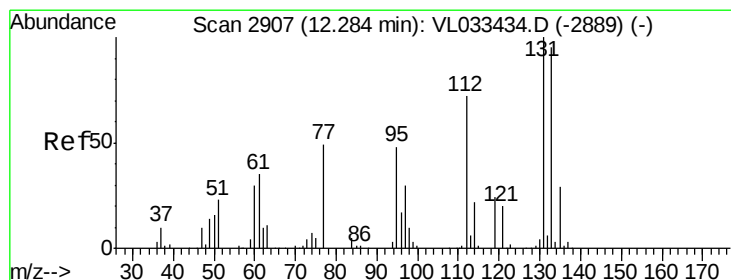
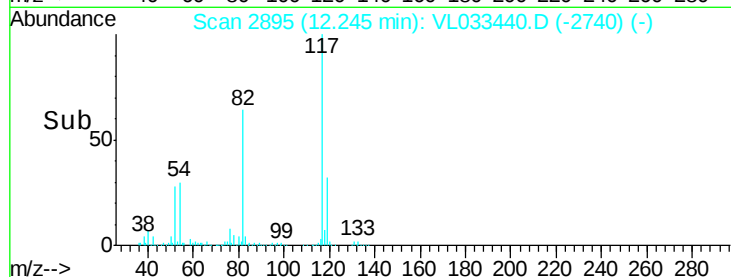
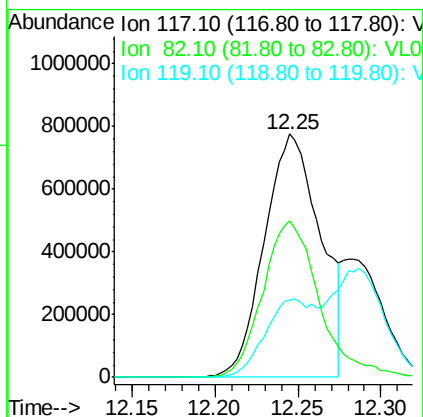
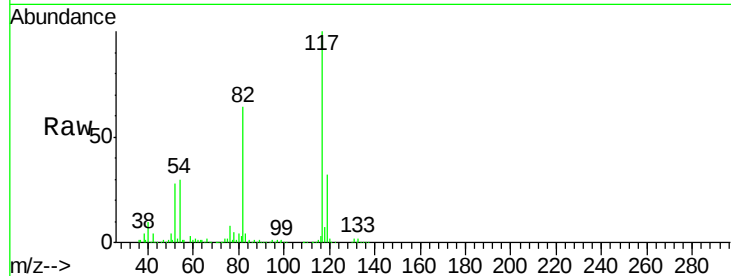
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2895
Delta R.T. -0.00 min
Lab File: VL033440.D
Acq: 25 Mar 2019 14:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:117 Resp: 1820648
Ion Ratio Lower Upper
117 100
82 65.3 53.4 80.2
119 0.0 27.3 40.9#

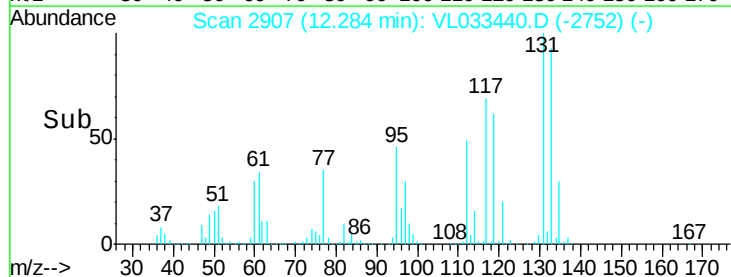
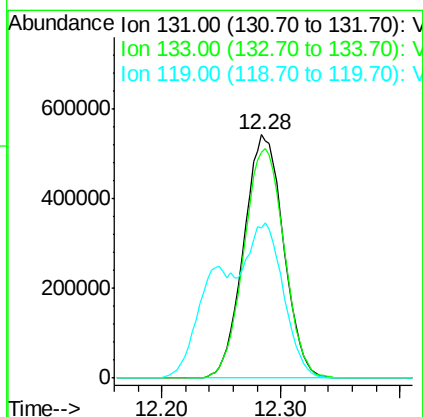
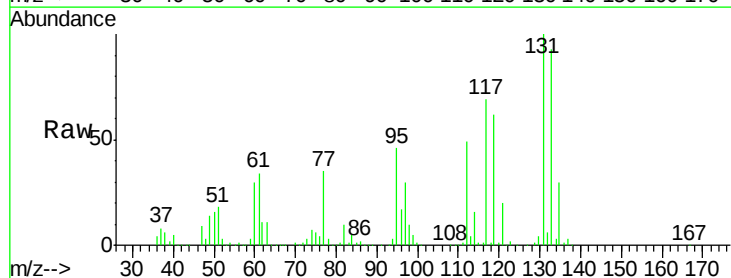
Manual Integrations
APPROVED

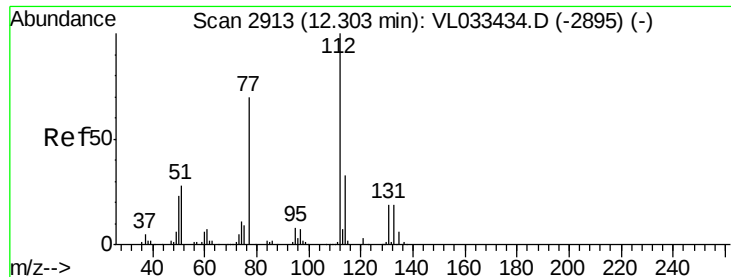
MMDadoda
4/1/2019 1:22:49 AM



#56
1,1,1,2-Tetrachloroethane
Concen: 15.394 ppbv
RT: 12.28 min Scan# 2907
Delta R.T. -0.00 min
Lab File: VL033440.D
Acq: 25 Mar 2019 14:28

Tgt Ion:131 Resp: 1253780
Ion Ratio Lower Upper
131 100
133 96.0 76.7 115.1
119 104.3 40.3 60.5#





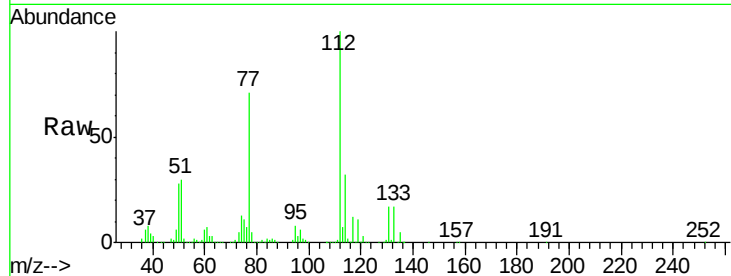
#57
Chlorobenzene
Concen: 14.554 ppbv
RT: 12.31 min Scan# 2915
Delta R.T. 0.00 min
Lab File: VL033440.D
Acq: 25 Mar 2019 14:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

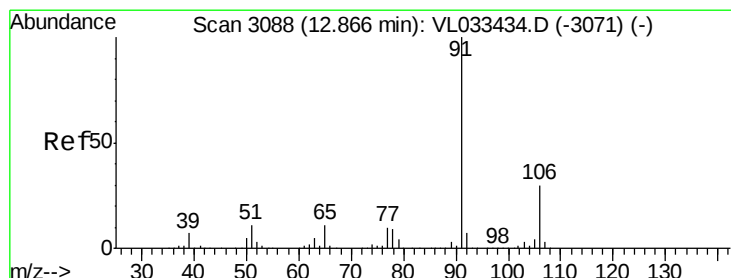
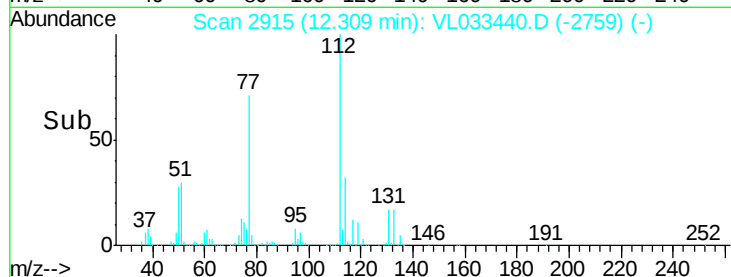
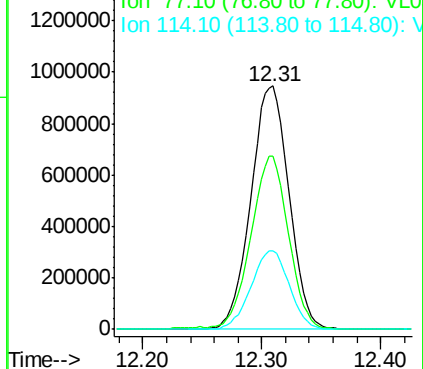
Tot Ion	Ratio	Lower	Upper
112	100		
77	70.7	55.8	83.6
114	32.1	28.6	35.0

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:22:49 AM

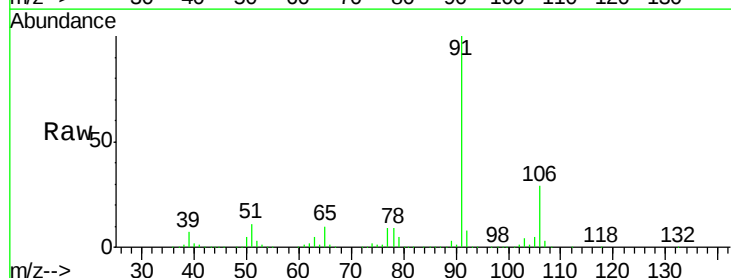


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

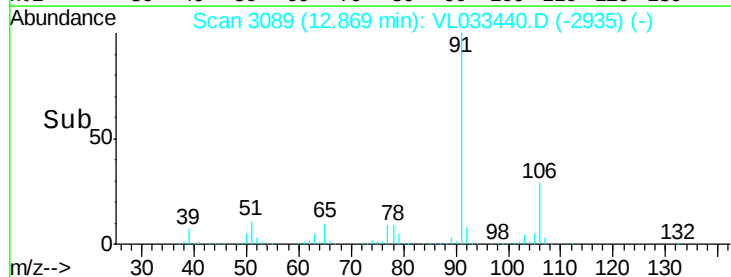
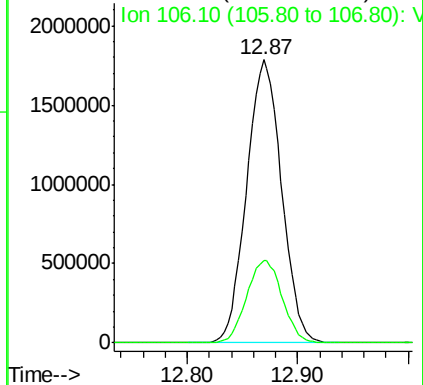


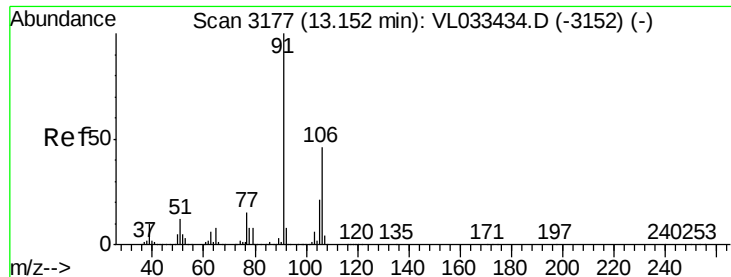
#58
Ethyl Benzene
Concen: 15.206 ppbv
RT: 12.87 min Scan# 3089
Delta R.T. -0.00 min
Lab File: VL033440.D
Acq: 25 Mar 2019 14:28

Tgt Ion	Ratio	Lower	Upper
91	100		
106	28.9	24.2	36.2



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 30.071 ppbv m

RT: 13.16 min Scan# 3179

Delta R.T. 0.03 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 6655837

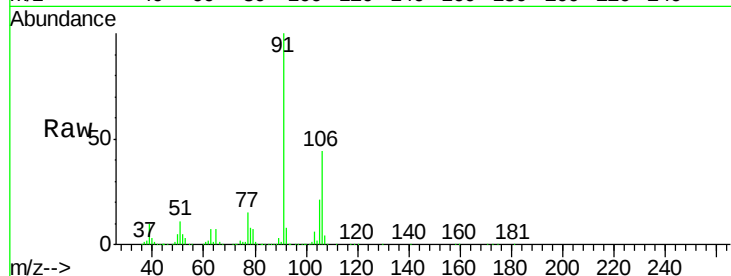
Ion Ratio Lower Upper

91 100

106 44.5 0.0 0.0#

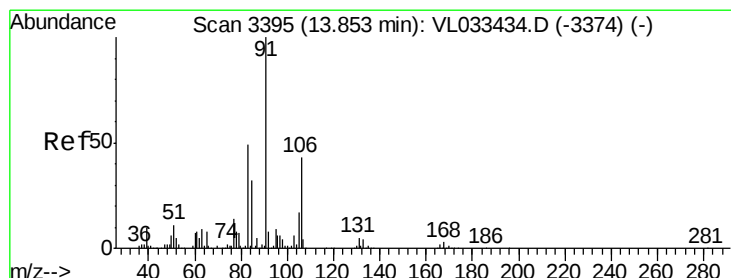
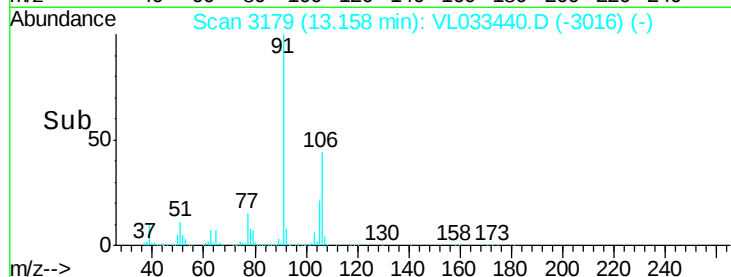
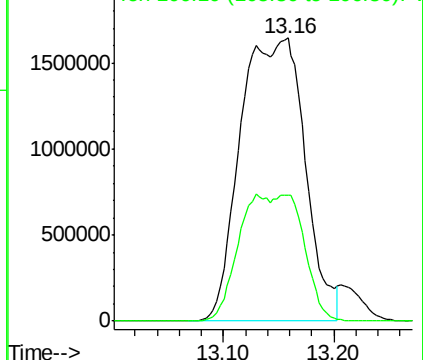
Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:22:49 AM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 14.930 ppbv

RT: 13.86 min Scan# 3396

Delta R.T. -0.00 min

Lab File: VL033440.D

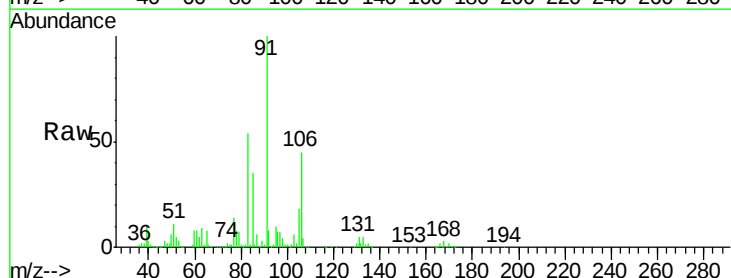
Acq: 25 Mar 2019 14:28

Tgt Ion: 91 Resp: 3224006

Ion Ratio Lower Upper

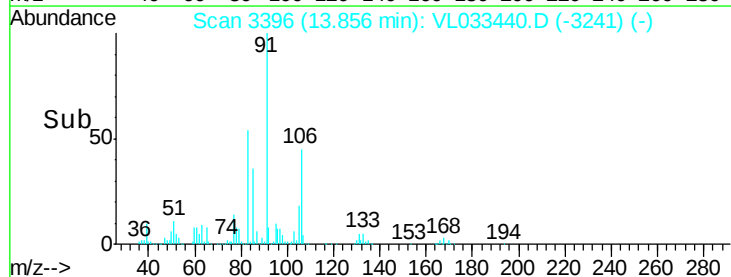
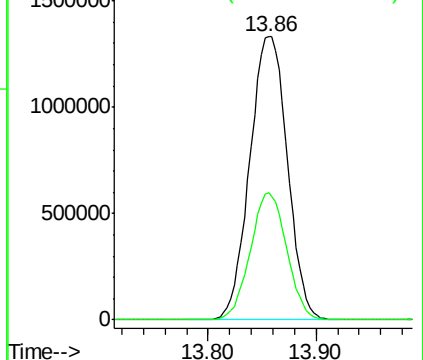
91 100

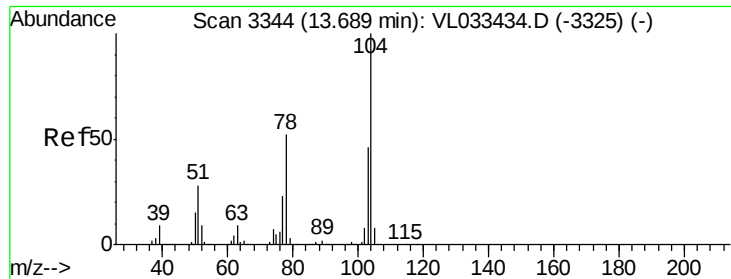
106 43.4 21.3 63.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#61

Stvrene

Concen: 16.150 ppbv

RT: 13.69 min Scan# 3345

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

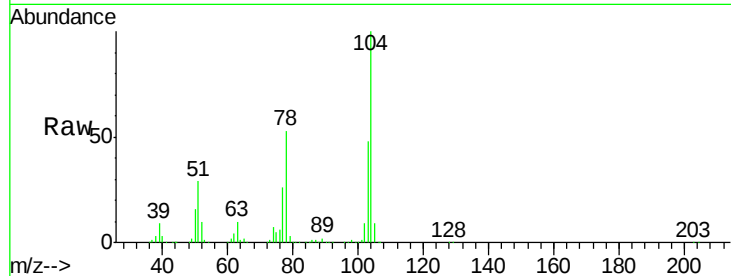
VSTDIC015

Tot Ion:104 Resp: 2441729

Ion	Ratio	Lower	Upper
104	100		
78	53.7	42.7	64.1
103	47.4	38.0	57.0

Manual Integrations
APPROVED

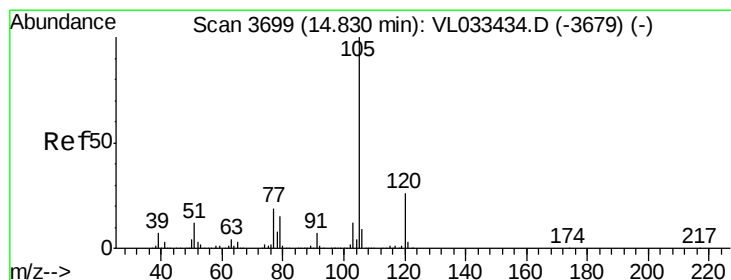
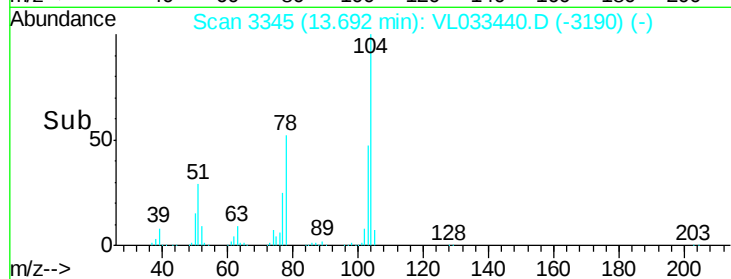
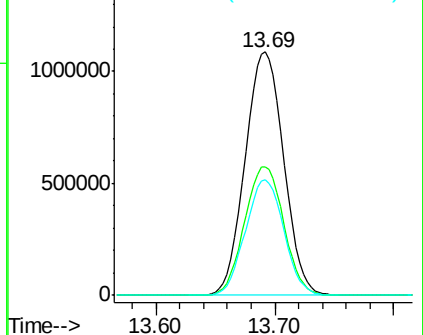
MMDadoda
4/1/2019 1:22:49 AM



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: 15.192 ppbv

RT: 14.83 min Scan# 3700

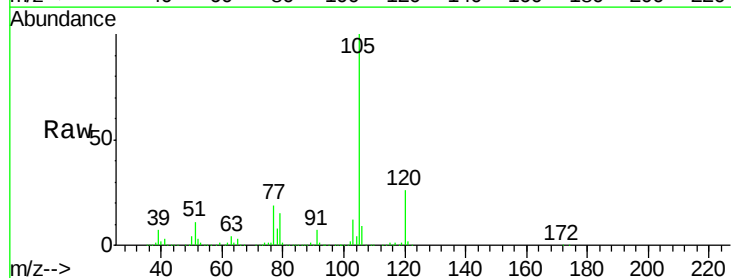
Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

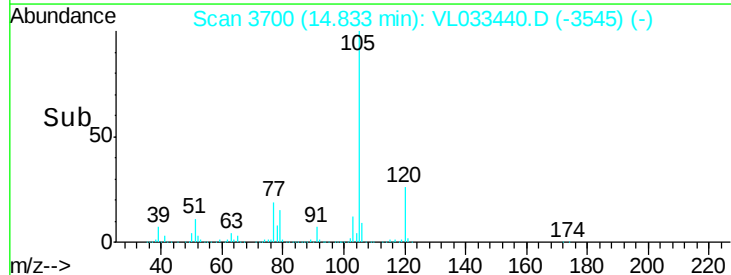
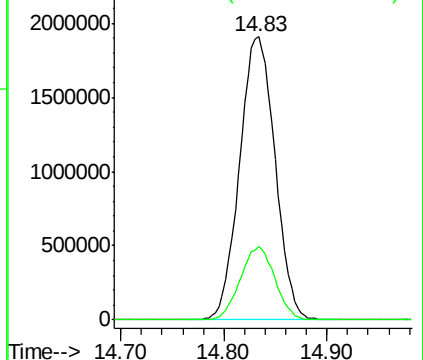
Tgt Ion:105 Resp: 4560623

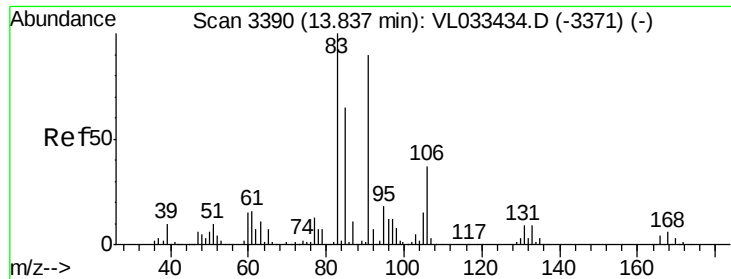
Ion	Ratio	Lower	Upper
105	100		
120	25.2	19.9	29.9



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





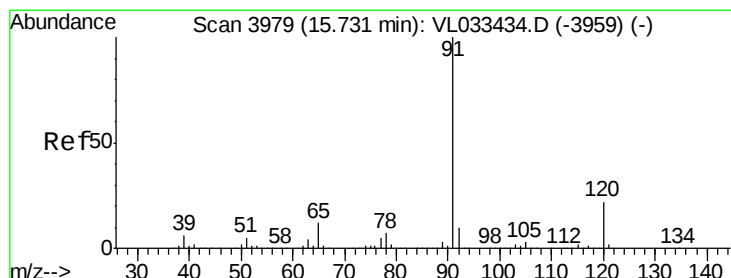
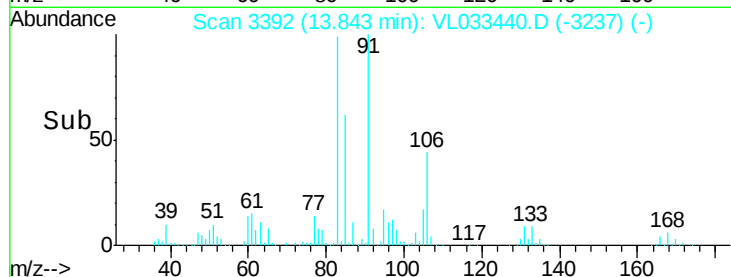
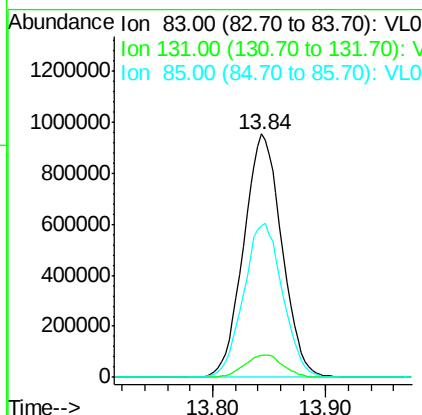
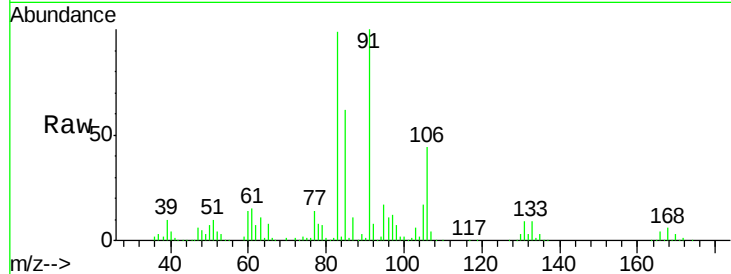
#63
 1,1,2,2-Tetrachloroethane
 Concen: 14.364 ppbv
 RT: 13.84 min Scan# 3392
 Delta R.T. -0.00 min
 Lab File: VL033440.D
 Acq: 25 Mar 2019 14:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 83 Resp: 2242225
 Ion Ratio Lower Upper
 83 100
 131 9.4 4.7 14.0
 85 64.7 32.5 97.4

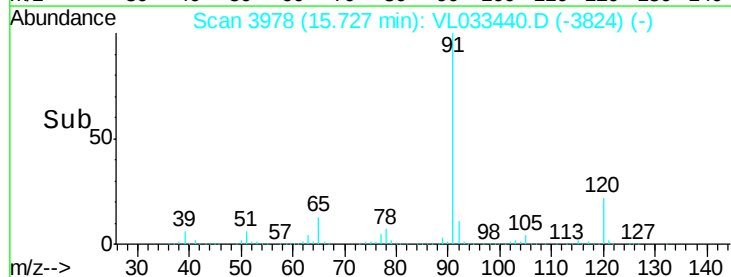
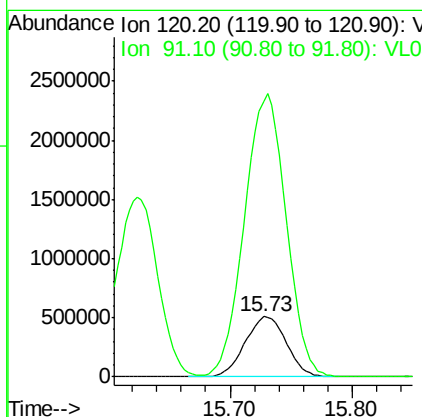
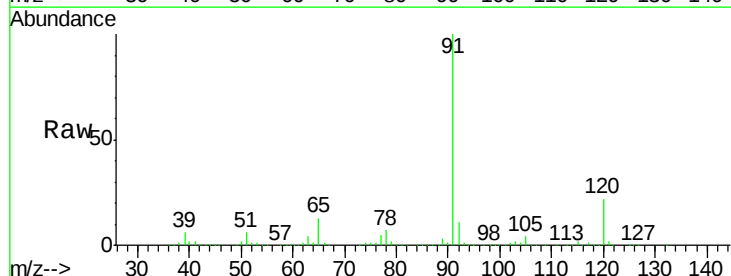
Manual Integrations
 APPROVED

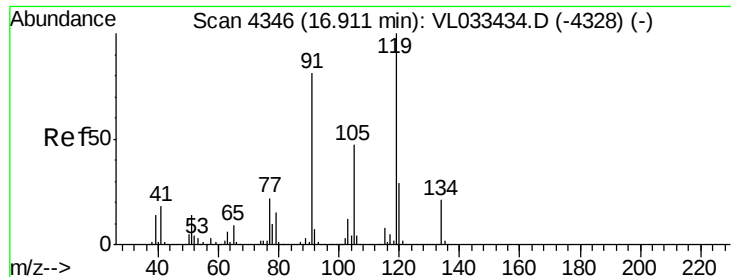
MMDadoda
 4/1/2019 1:22:49 AM



#64
 n-propylbenzene
 Concen: 15.642 ppbv
 RT: 15.73 min Scan# 3978
 Delta R.T. -0.00 min
 Lab File: VL033440.D
 Acq: 25 Mar 2019 14:28

Tgt Ion:120 Resp: 1188254
 Ion Ratio Lower Upper
 120 100
 91 476.9 389.8 584.6





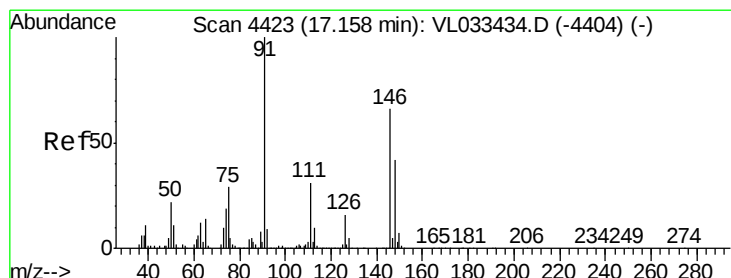
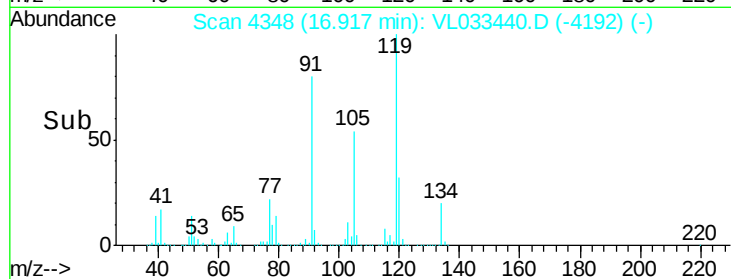
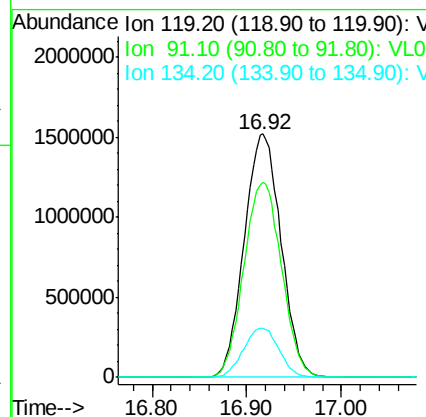
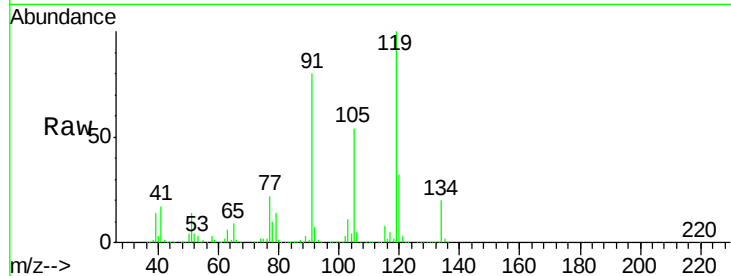
#65
tert-Butylbenzene
Concen: 15.213 ppbv
RT: 16.92 min Scan# 4348
Delta R.T. 0.00 min
Lab File: VL033440.D
Acq: 25 Mar 2019 14:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 119 Resp: 4111595
Ion Ratio Lower Upper
119 100
91 82.2 67.2 100.8
134 19.5 15.4 23.2

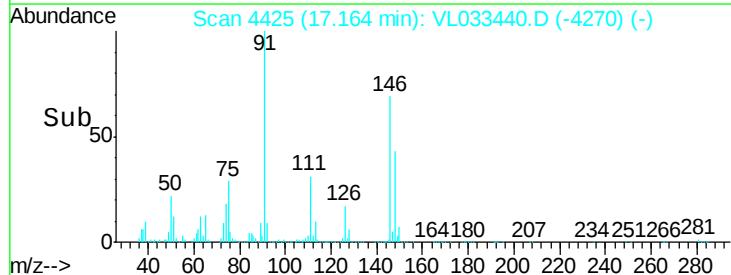
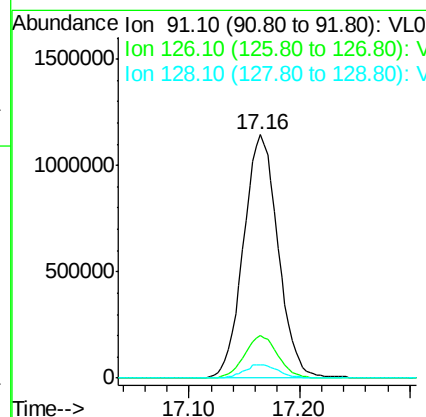
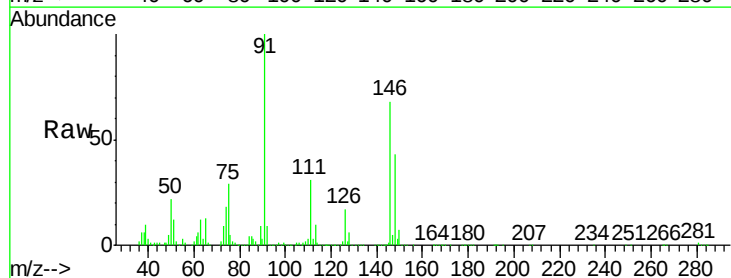
Manual Integrations
APPROVED

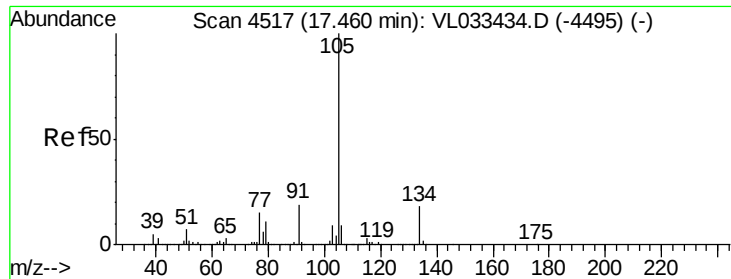
MMDadoda
4/1/2019 1:22:49 AM



#66
Benzyl Chloride
Concen: 22.224 ppbv
RT: 17.16 min Scan# 4425
Delta R.T. -0.00 min
Lab File: VL033440.D
Acq: 25 Mar 2019 14:28

Tgt Ion: 91 Resp: 2482201
Ion Ratio Lower Upper
91 100
126 16.9 13.2 19.8
128 5.5 4.2 6.4





#67

sec-Butylbenzene

Concen: 15.309 ppbv

RT: 17.47 min Scan# 4519

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleID :

VSTDIC015

Tot Ion:105 Resp: 5863044

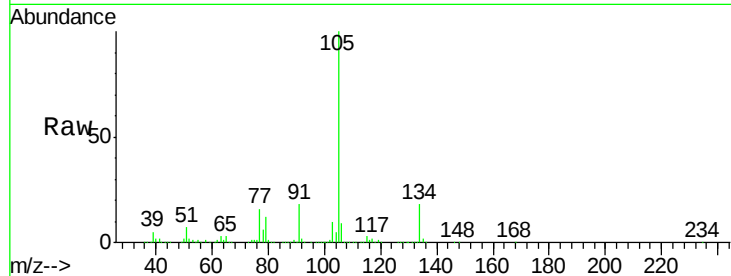
Ion Ratio Lower Upper

105 100

134 18.1 14.2 21.4

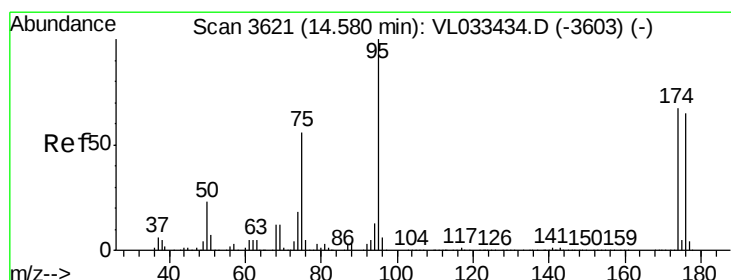
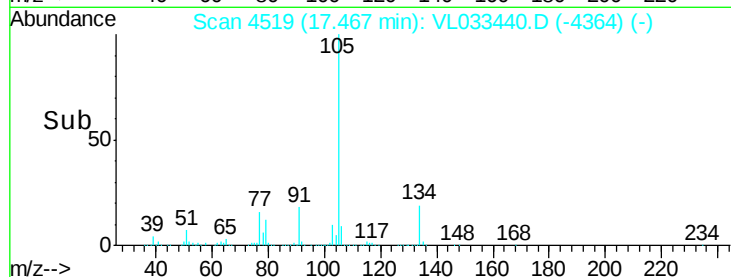
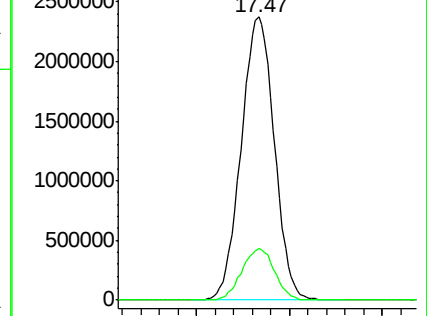
Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:22:49 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: 10.107 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

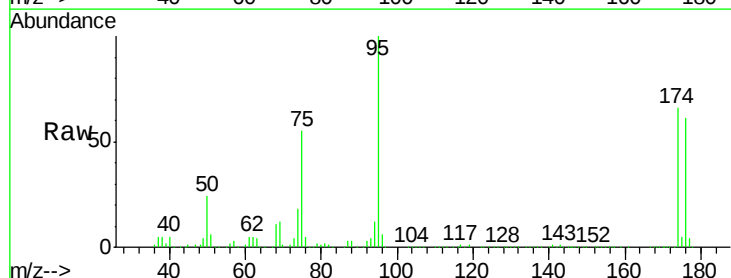
Tgt Ion: 95 Resp: 1363502

Ion Ratio Lower Upper

95 100

174 65.7 51.5 77.3

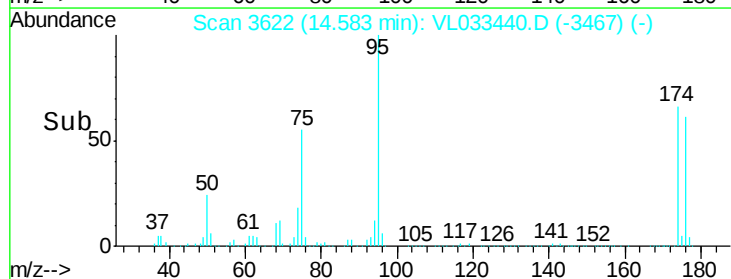
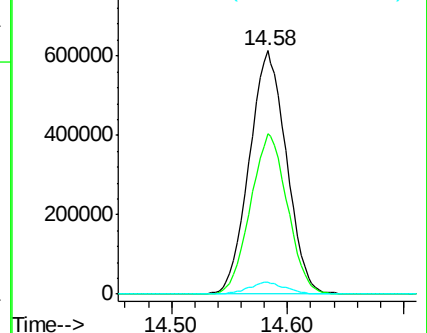
175 4.7 3.8 5.6

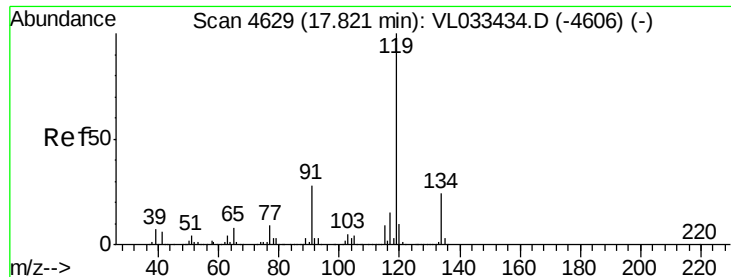


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





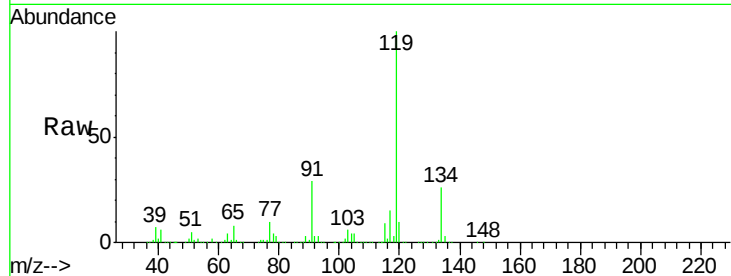
#69
 p-Isopropyltoluene
 Concen: 15.517 ppbv
 RT: 17.82 min Scan# 4630
 Delta R.T. -0.00 min
 Lab File: VL033440.D
 Acq: 25 Mar 2019 14:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

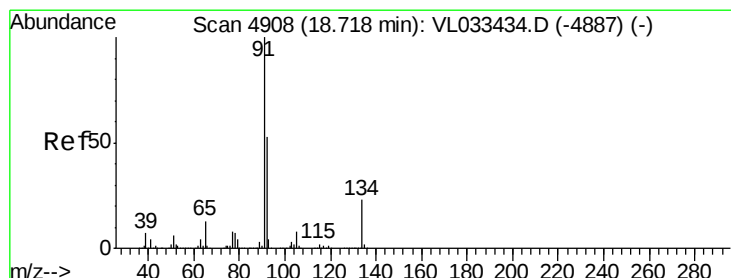
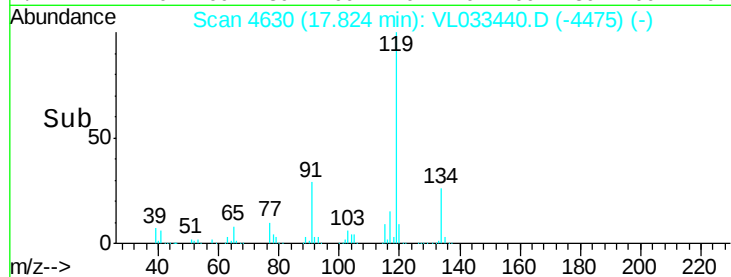
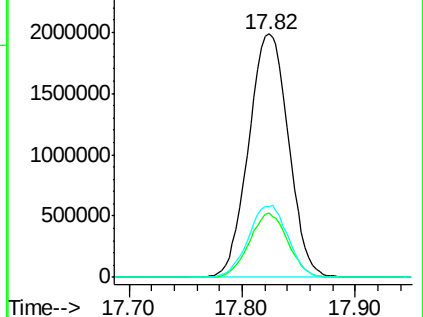
Tot Ion: 119 Resp: 4855149
 Ion Ratio Lower Upper
 119 100
 134 25.4 19.8 29.6
 91 29.4 23.4 35.2

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:22:49 AM

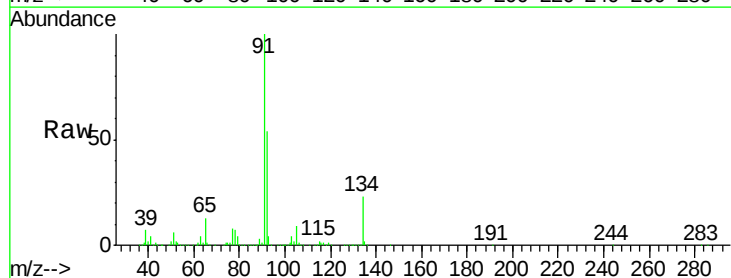


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

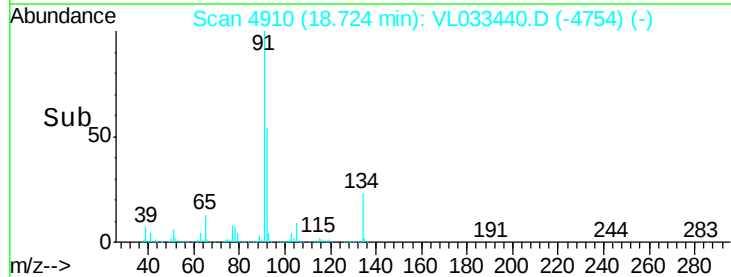
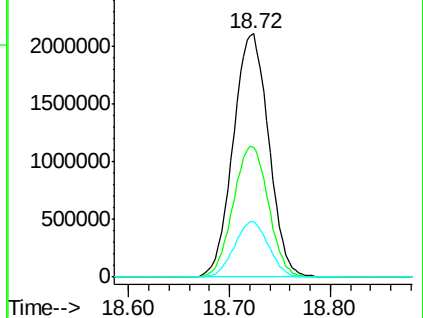


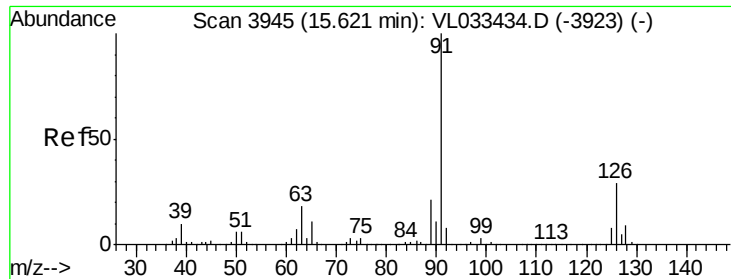
#70
 n-Butylbenzene
 Concen: 15.396 ppbv
 RT: 18.72 min Scan# 4910
 Delta R.T. 0.00 min
 Lab File: VL033440.D
 Acq: 25 Mar 2019 14:28

Tgt Ion: 91 Resp: 5136557
 Ion Ratio Lower Upper
 91 100
 92 53.5 42.8 64.2
 134 22.2 17.4 26.0



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





#71

2-Chlorotoluene

Concen: 15.321 ppbv

RT: 15.62 min Scan# 3946

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 3580246

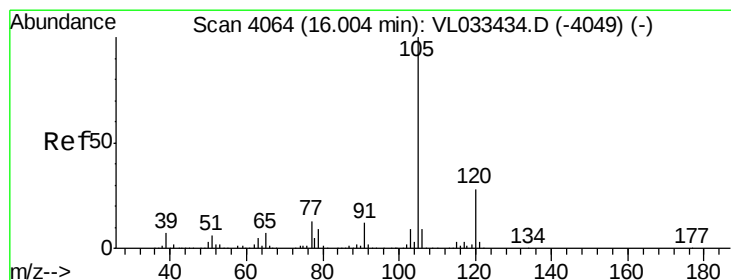
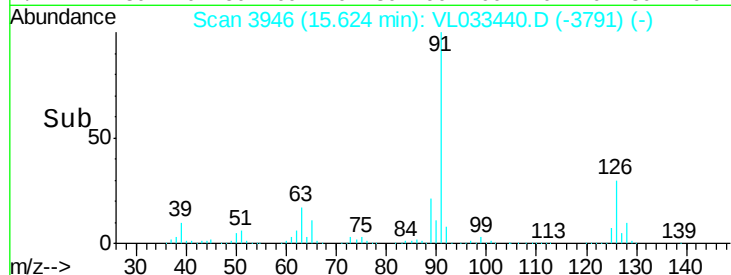
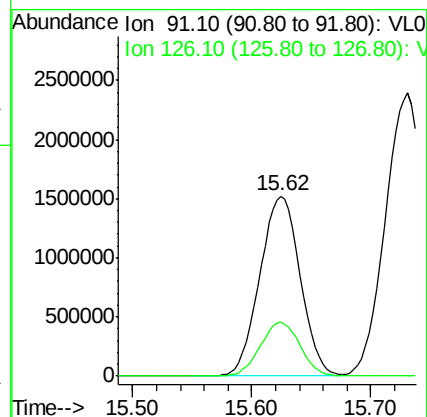
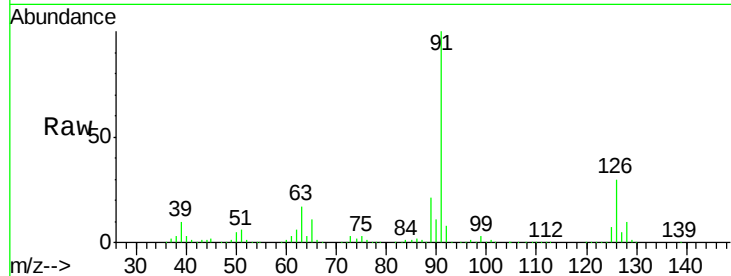
Ion Ratio Lower Upper

91 100

126 29.6 11.6 46.6

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:22:49 AM



#72

4-Ethyltoluene

Concen: 15.602 ppbv

RT: 16.01 min Scan# 4065

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Tgt Ion: 105 Resp: 3825977

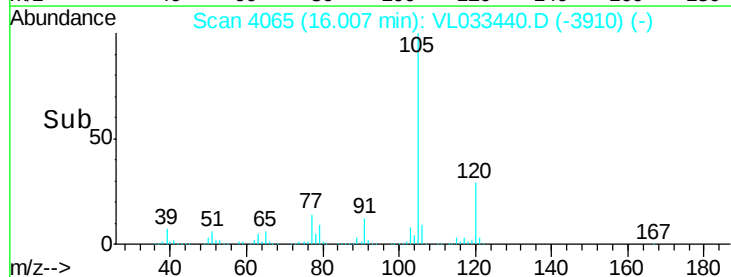
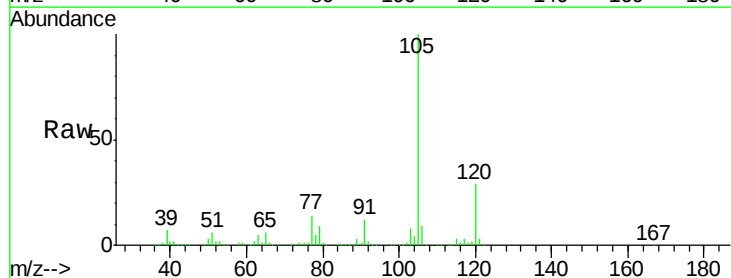
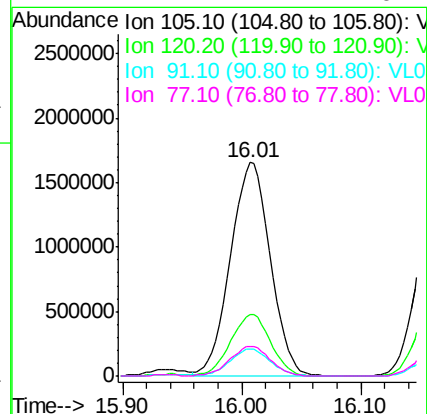
Ion Ratio Lower Upper

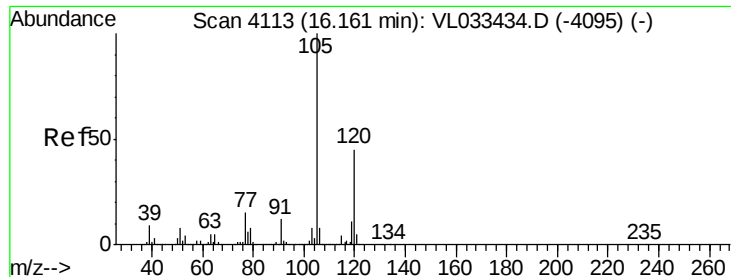
105 100

120 29.0 22.9 34.3

91 12.8 10.2 15.2

77 14.1 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 15.317 ppbv

RT: 16.17 min Scan# 4115

Delta R.T. 0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 3659073

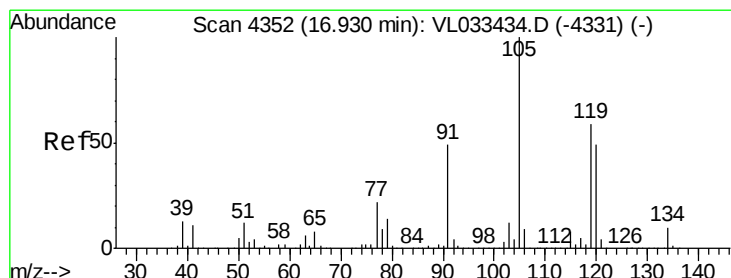
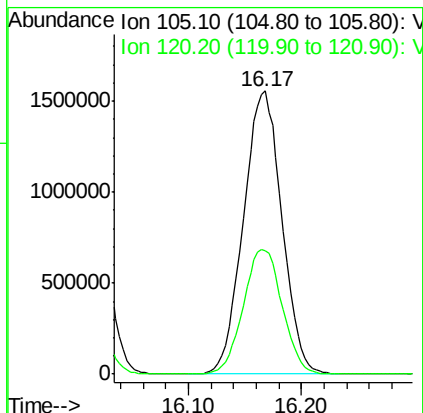
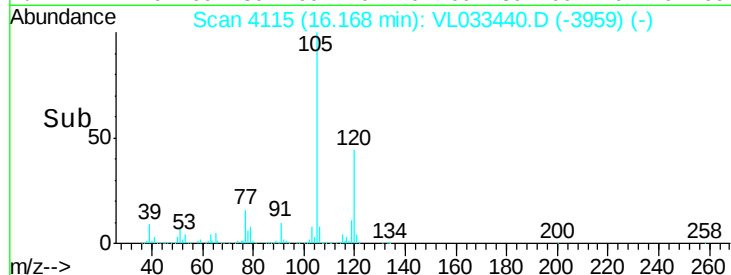
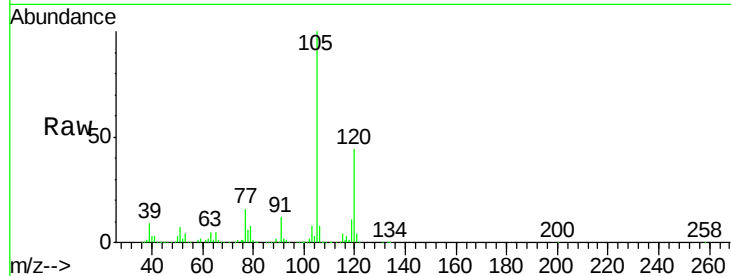
Ion Ratio Lower Upper

105 100

120 43.6 36.2 54.4

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:22:49 AM



#74

1,2,4-Trimethylbenzene

Concen: 14.956 ppbv

RT: 16.93 min Scan# 4353

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Tgt Ion:105 Resp: 3783889

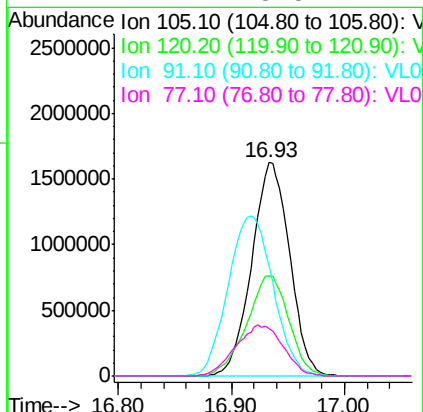
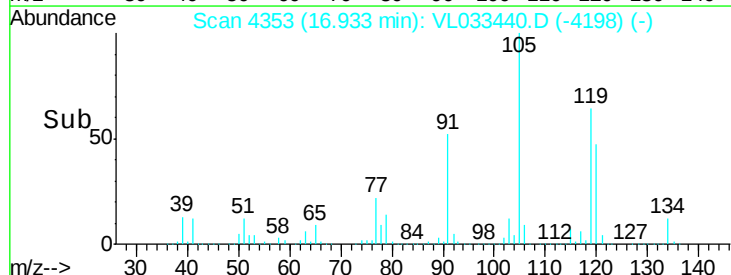
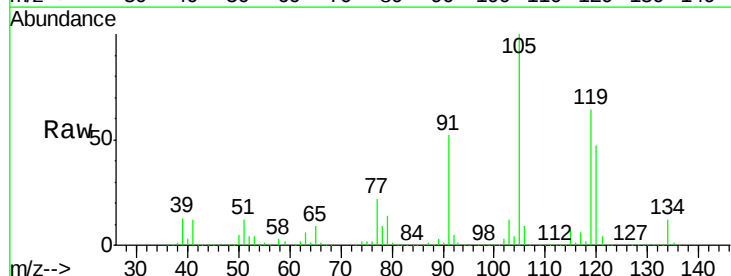
Ion Ratio Lower Upper

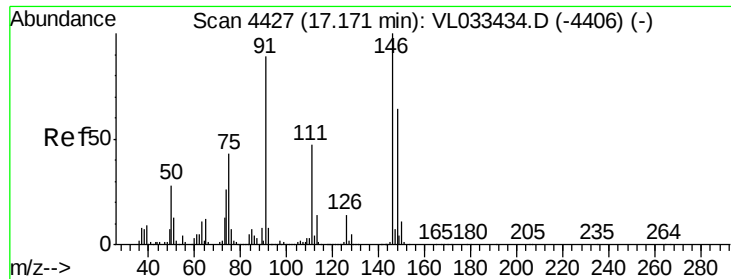
105 100

120 46.8 37.4 56.2

91 51.5 41.0 61.4

77 22.4 18.5 27.7





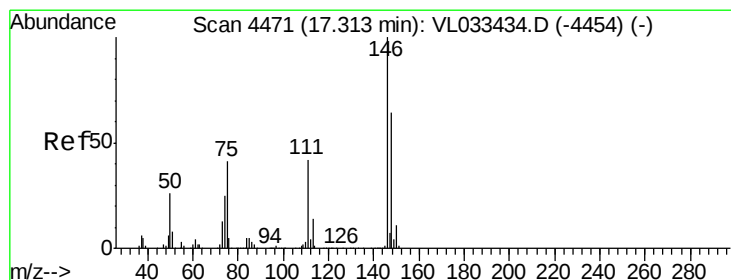
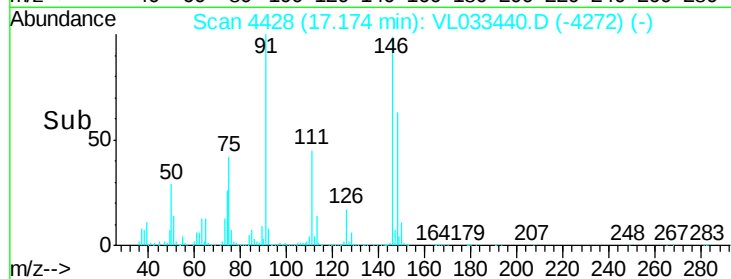
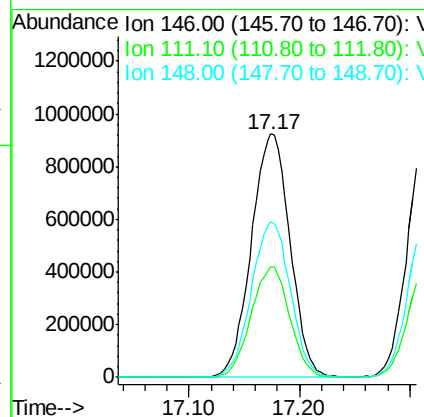
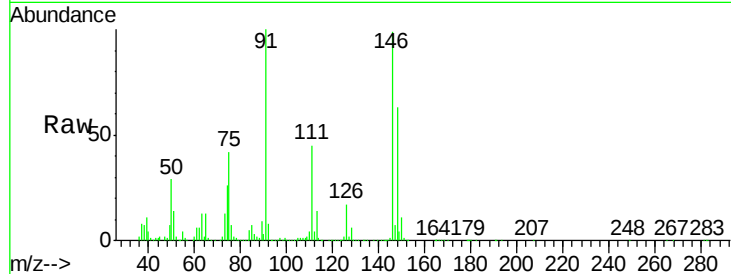
#75
 1,3-Dichlorobenzene
 Concen: 15.047 ppbv
 RT: 17.17 min Scan# 4428
 Delta R.T. 0.00 min
 Lab File: VL033440.D
 Acq: 25 Mar 2019 14:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:146 Resp: 2243789
 Ion Ratio Lower Upper
 146 100
 111 45.3 22.8 68.3
 148 64.3 31.9 95.7

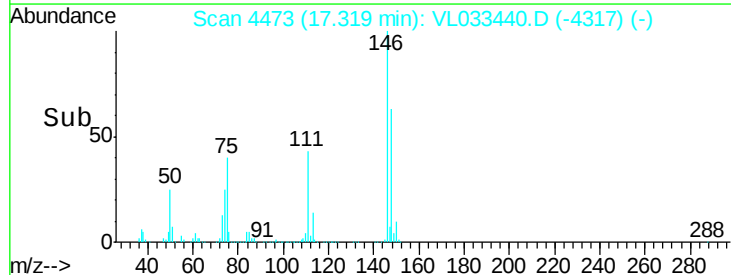
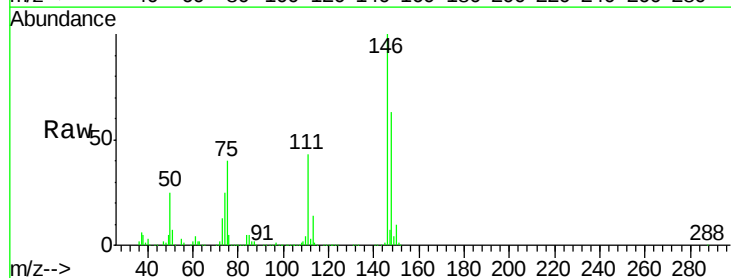
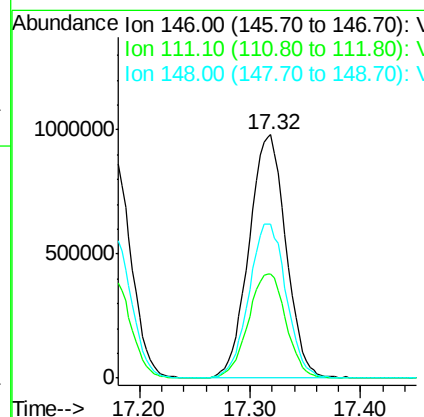
Manual Integrations
 APPROVED

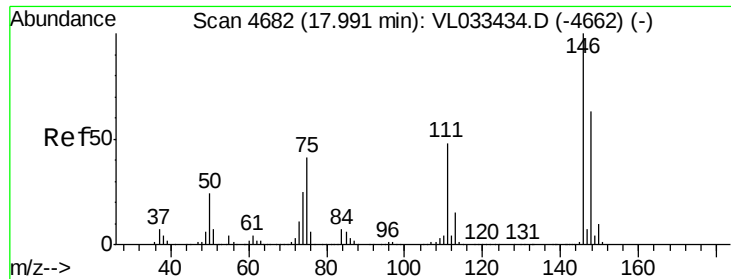
MMDadoda
 4/1/2019 1:22:49 AM



#76
 1,4-Dichlorobenzene
 Concen: 15.706 ppbv
 RT: 17.32 min Scan# 4473
 Delta R.T. 0.00 min
 Lab File: VL033440.D
 Acq: 25 Mar 2019 14:28

Tgt Ion:146 Resp: 2267585
 Ion Ratio Lower Upper
 146 100
 111 43.9 21.9 65.7
 148 64.3 32.1 96.5





#77

1,2-Dichlorobenzene

Concen: 15.710 ppbv

RT: 18.00 min Scan# 4684

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 2218744

Ion Ratio Lower Upper

146 100

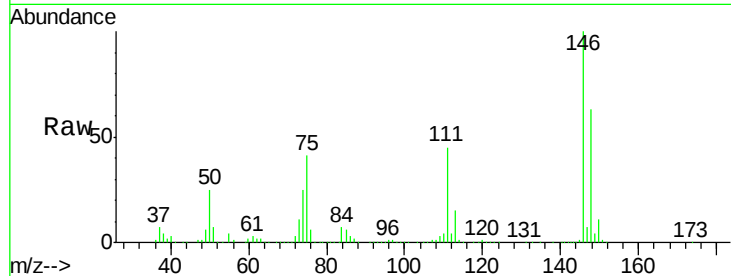
111 46.3 23.5 70.6

148 63.8 31.9 95.9

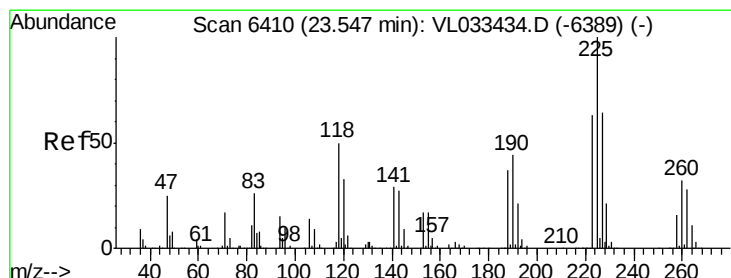
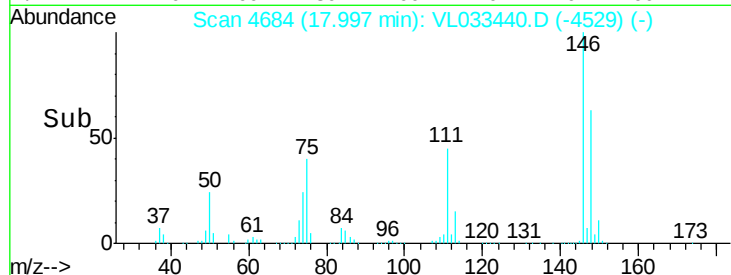
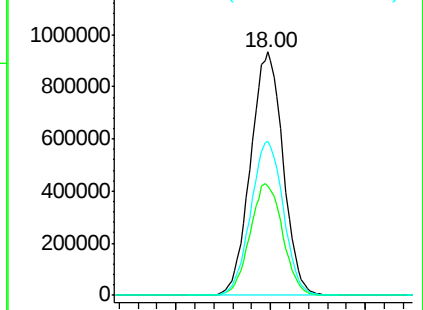
Manual Integrations
APPROVED

MMDadoda

4/1/2019 1:22:49 AM



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: 19.831 ppbv

RT: 23.55 min Scan# 6411

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

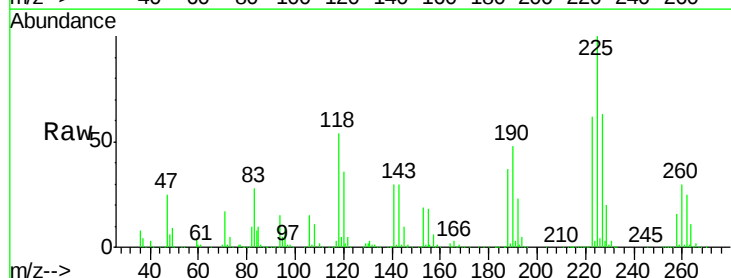
Tgt Ion:225 Resp: 1679115

Ion Ratio Lower Upper

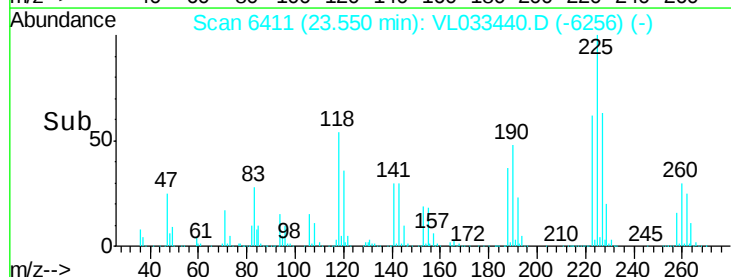
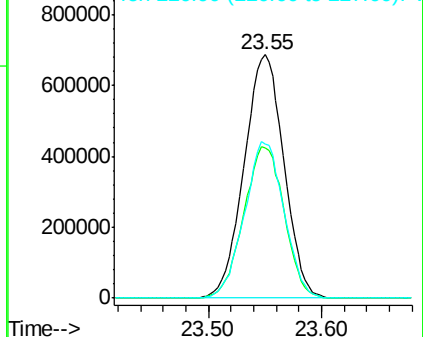
225 100

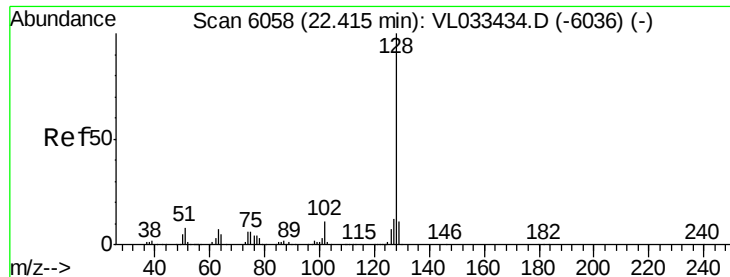
223 63.1 50.4 75.6

227 63.7 50.5 75.7



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: 16.094 ppbv

RT: 22.42 min Scan# 6059

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:128 Resp: 3923764

Ion Ratio Lower Upper

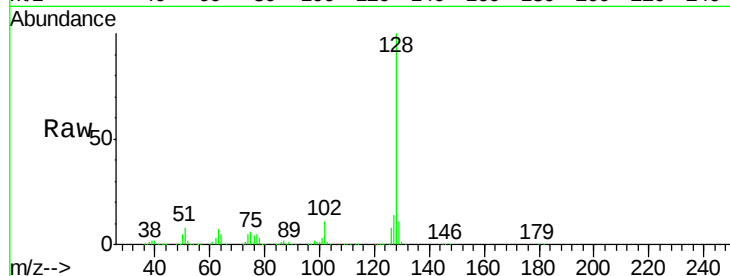
128 100

127 13.5 10.1 15.1

129 11.3 8.2 12.2

Manual Integrations
APPROVED

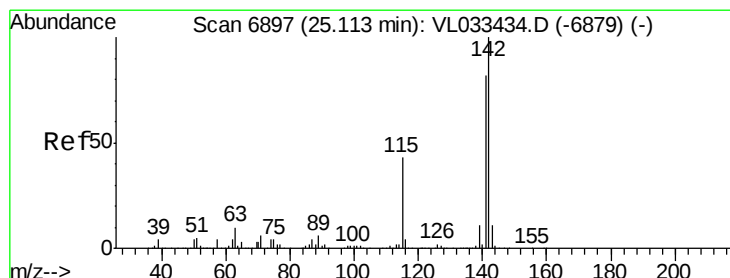
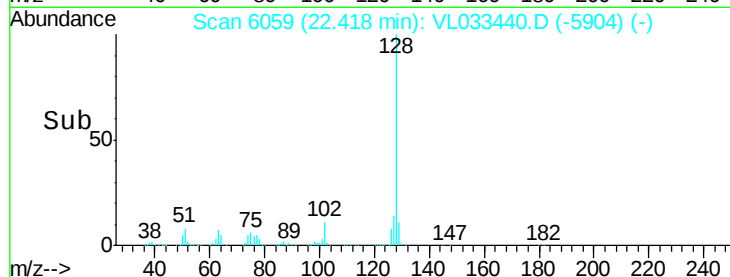
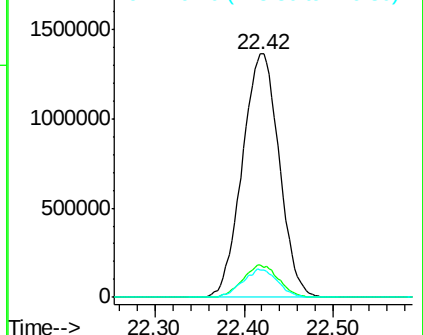
MMDadoda
4/1/2019 1:22:49 AM



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: 15.313 ppbv

RT: 25.12 min Scan# 6898

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

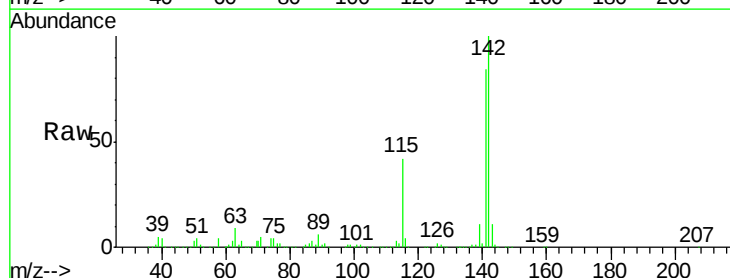
Tgt Ion:142 Resp: 1770271

Ion Ratio Lower Upper

142 100

141 84.5 67.1 100.7

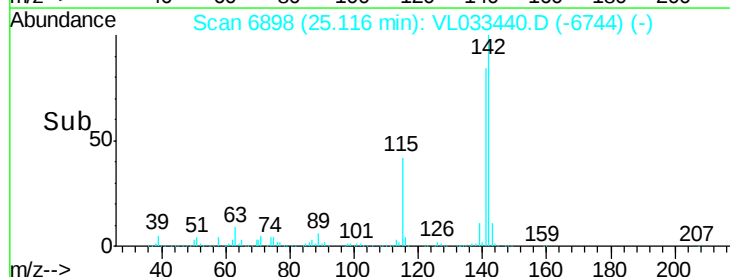
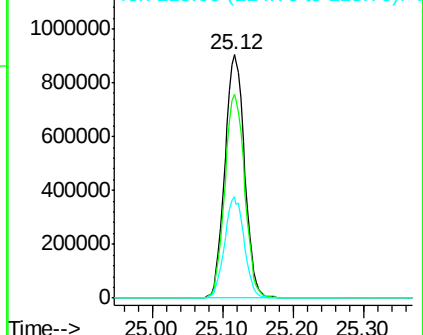
115 41.5 33.8 50.6



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: 15.932 ppbv
 RT: 22.14 min Scan# 5973
 Delta R.T. -0.00 min
 Lab File: VL033440.D
 Acq: 25 Mar 2019 14:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.6	76.1	114.1
184	30.5	24.6	37.0

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:22:49 AM

