

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032519\
 Data File : VL033462.D
 Acq On : 26 Mar 2019 8:04
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:23:18 AM

Quant Time: Mar 27 02:22:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 27 02:22:02 2019
 QLast Update : Tue Mar 26 05:43:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	704848	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1649417	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1913450m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1409974	9.40	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	1047184	10.187	ppbv	98
3) Chlorodifluoromethane	3.01	51	800162	9.861	ppbv	100
4) Chloromethane	3.17	50	417348	9.719	ppbv	99
5) Vinyl Chloride	3.29	62	424586	10.064	ppbv	97
6) Bromomethane	3.51	94	271436	10.011	ppbv	95
7) Chloroethane	3.60	64	154099	9.814	ppbv	96
8) Dichlorotetrafluoroethane	3.22	85	1079171	9.852	ppbv	99
9) Propene	3.03	41	339061	9.950	ppbv	99
10) Heptane	8.25	43	890141	10.414	ppbv	100
11) Trichlorofluoromethane	4.00	101	1226423	9.680	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	827406	9.723	ppbv	100
13) Ethanol	3.65	45	102200	11.589	ppbv	65
14) Bromoethene	3.79	108	347327	10.234	ppbv	98
15) Acetone	3.90	43	764646	9.022	ppbv	99
16) 1,3-Butadiene	3.36	39	376403	11.197	ppbv	95
17) tert-Butyl alcohol	4.35	59	157861	10.130	ppbv	98
18) 1,1-Dichloroethene	4.35	96	366676	10.032	ppbv	99
19) Isopropyl Alcohol	4.02	45	603950	11.267	ppbv #	98
20) Methylene Chloride	4.41	84	318986	8.867	ppbv	95
21) Allyl Chloride	4.48	41	543832	10.151	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	369871	9.699	ppbv	93
23) Vinyl Acetate	5.15	43	1228111	10.181	ppbv	100
24) 1,1-Dichloroethane	5.09	63	867197	9.464	ppbv	100
25) Ethyl Acetate	5.77	43	1504289	9.567	ppbv	100
26) Hexane	5.78	57	672780	9.623	ppbv	98
27) Carbon Disulfide	4.62	76	897157	10.791	ppbv	98
28) Methyl tert-Butyl Ether	5.11	73	974564	9.678	ppbv	100
29) Chloroform	5.85	83	1153223	9.622	ppbv	98
30) Cyclohexane	7.25	84	564312	10.203	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	691545	9.949	ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	1113911	9.760	ppbv	98
34) 2-Butanone	5.33	43	981056	9.900	ppbv	99
35) Carbon Tetrachloride	7.13	117	1209952	10.357	ppbv	99
36) Benzene	7.00	78	1387982	10.029	ppbv	99
37) 1,2-Dichloroethane	6.41	62	893350	9.630	ppbv	100
38) Trichloroethene	7.96	130	554583	10.648	ppbv	94
39) 1,2-Dichloropropane	7.73	63	524010	9.666	ppbv	97
40) 1,4-Dioxane	7.95	88	209677	10.844	ppbv	86
41) Tetrahydrofuran	6.15	42	563157	10.332	ppbv	98
42) Bromodichloromethane	7.92	83	1260605	9.977	ppbv	97
43) Methyl Methacrylate	8.14	69	573437	10.204	ppbv	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032519\
 Data File : VL033462.D
 Acq On : 26 Mar 2019 8:04
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:23:18 AM

Quant Time: Mar 27 02:22:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 27 02:22:02 2019
 QLast Update : Tue Mar 26 05:43:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	2373560	9.814	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1200533	17.400	ppbv	98
46) cis-1,3-Dichloropropene	8.84	75	874775	10.857	ppbv	99
47) 1,1,2-Trichloroethane	9.61	97	911497	14.806	ppbv	97
48) Dibromochloromethane	10.45	129	1137769	10.957	ppbv	100
49) Bromoform	13.20	173	1052678	10.612	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	1468420	10.120	ppbv	100
51) 2-Hexanone	10.27	43	1205255	11.135	ppbv #	100
52) Tetrachloroethene	11.37	164	564784	10.816	ppbv	94
53) Toluene	9.95	91	1748826	10.874	ppbv	100
54) 1,2-Dibromoethane	10.76	107	991372	10.296	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.28	131	819082	9.340	ppbv	100
57) Chlorobenzene	12.30	112	1381698	9.300	ppbv	98
58) Ethyl Benzene	12.87	91	2537142	9.929	ppbv	98
59) m/p-Xylene	13.12	91	4297865m	18.831	ppbv	
60) o-Xylene	13.85	91	2130696	9.654	ppbv	100
61) Styrene	13.69	104	1584312	10.459	ppbv	100
62) Isopropylbenzene	14.83	105	2968651	9.498	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	1486751	9.149	ppbv	100
64) n-propylbenzene	15.72	120	753100	9.496	ppbv	100
65) tert-Butylbenzene	16.91	119	2678723	9.726	ppbv	100
66) Benzyl Chloride	17.16	91	1447851	11.306	ppbv	100
67) sec-Butylbenzene	17.46	105	3800186	9.702	ppbv	100
69) p-Isopropyltoluene	17.82	119	3174608	9.955	ppbv	99
70) n-Butylbenzene	18.72	91	3366627	9.964	ppbv	99
71) 2-Chlorotoluene	15.62	91	2287376	9.625	ppbv	100
72) 4-Ethyltoluene	16.00	105	2461926	9.924	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	2371512	9.989	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	2472870	9.718	ppbv	96
75) 1,3-Dichlorobenzene	17.17	146	1464767	9.313	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1457367	9.510	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1432266	9.598	ppbv	100
78) Hexachloro-1,3-Butadiene	23.54	225	1053678	10.667	ppbv	99
79) Naphthalene	22.42	128	2443987	11.220	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	1153193	15.775	ppbv	98
81) 1,2,4-Trichlorobenzene	22.14	180	1226469	10.150	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033462.D

Acq: 26 Mar 2019 8:04

Instrument :

MSVOA_L

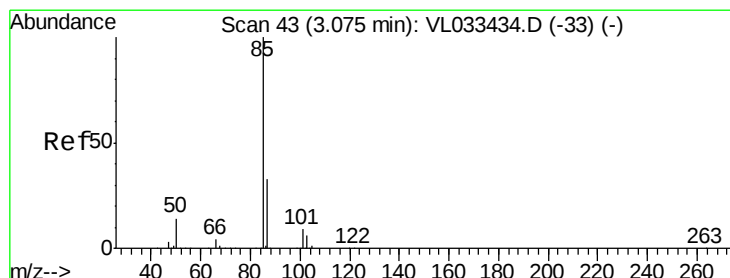
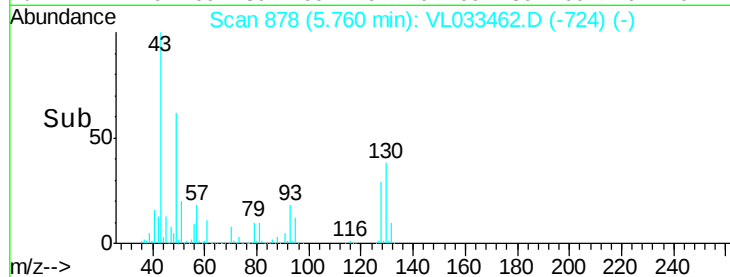
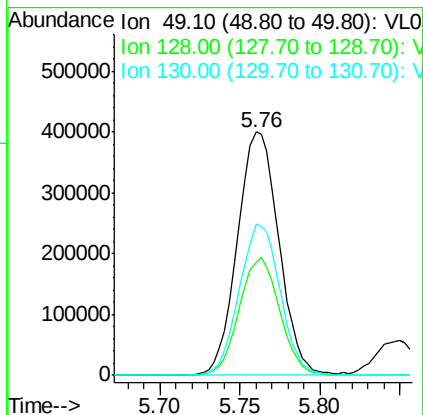
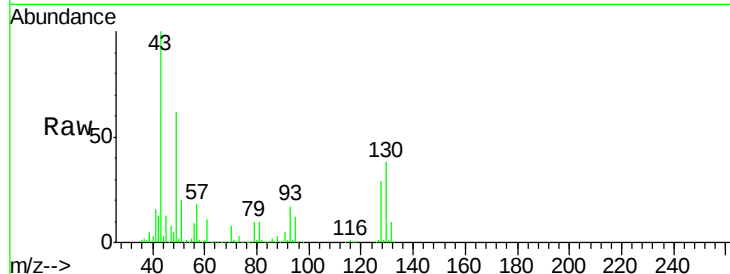
ClientSampleId :

VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
49	100		
128	47.6	24.0	72.0
130	61.9	31.2	93.6

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:23:18 AM



#2

Dichlorodifluoromethane

Concen: 10.187 ppbv

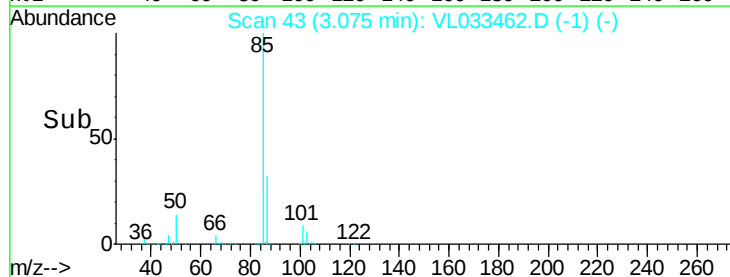
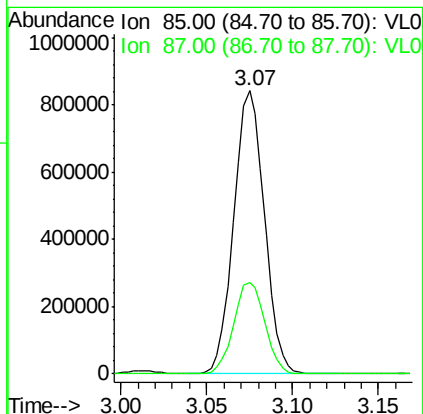
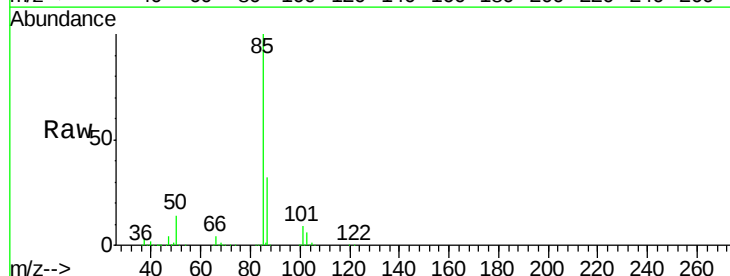
RT: 3.07 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033462.D

Acq: 26 Mar 2019 8:04

Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.3	26.7	40.1





#3

Chlorodifluoromethane

Concen: 9.861 ppbv

RT: 3.01 min Scan# 23

Delta R.T. -0.00 min

Lab File: VL033462.D

Acq: 26 Mar 2019 8:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 51 Resp: 800162

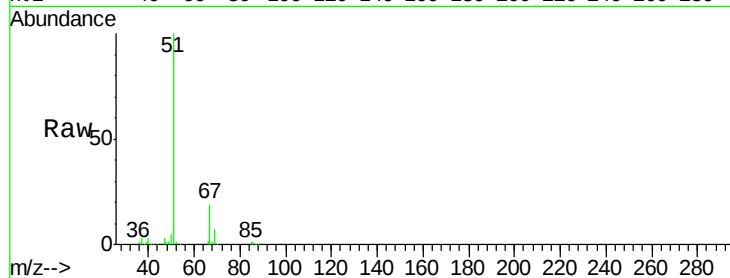
Ion Ratio Lower Upper

51 100

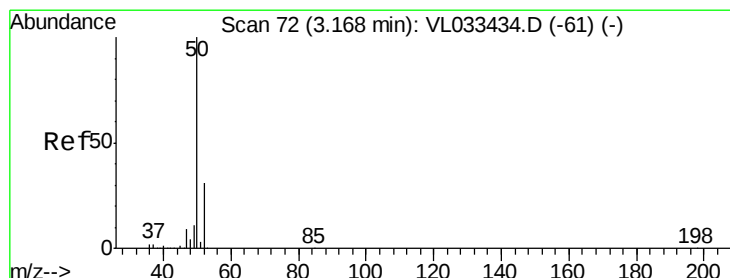
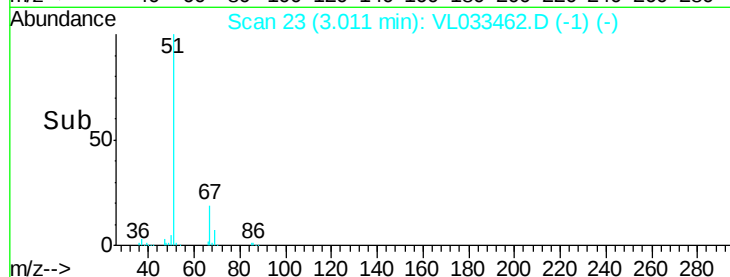
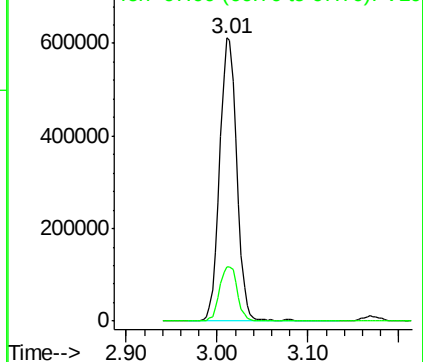
67 19.8 15.7 23.5

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:23:18 AM



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



#4

Chloromethane

Concen: 9.719 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033462.D

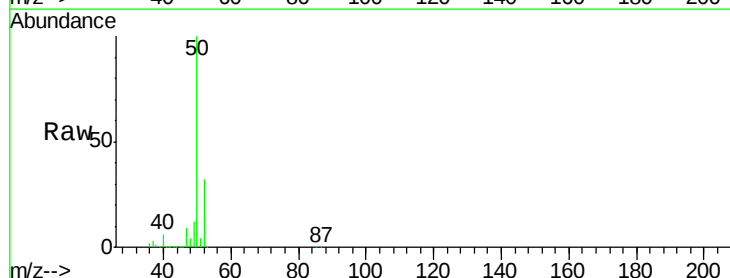
Acq: 26 Mar 2019 8:04

Tgt Ion: 50 Resp: 417348

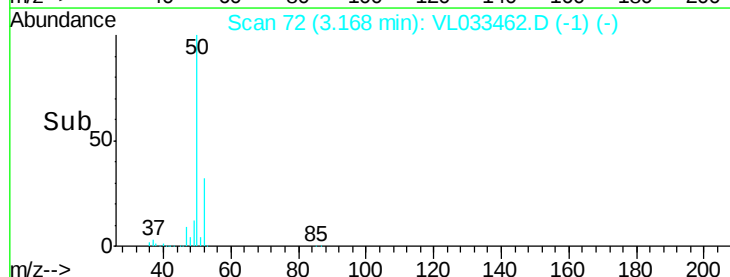
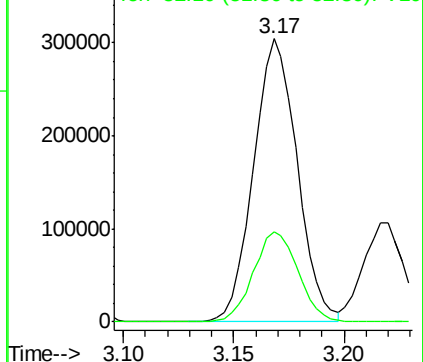
Ion Ratio Lower Upper

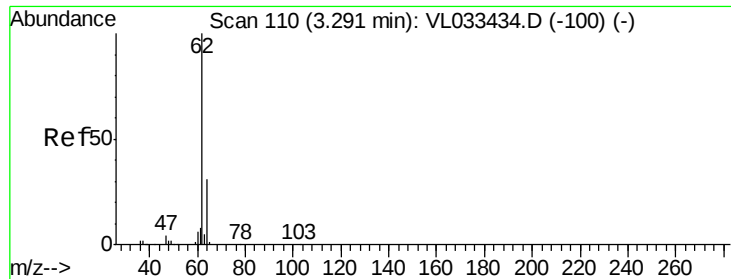
50 100

52 32.0 25.0 37.6



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





#5

Vinyl Chloride

Concen: 10.064 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033462.D

Acq: 26 Mar 2019 8:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 424586

Ion Ratio Lower Upper

62 100

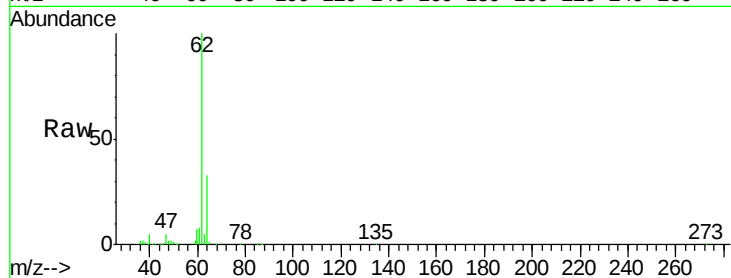
64 32.5 24.9 37.3

Manual Integrations

APPROVED

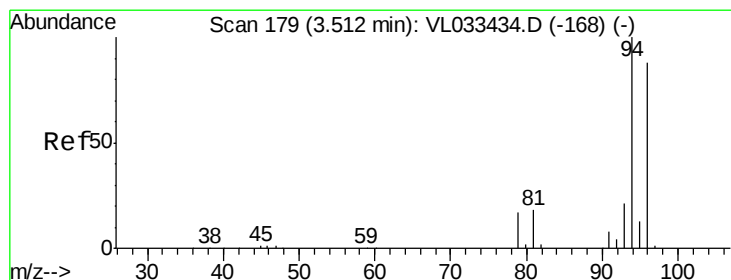
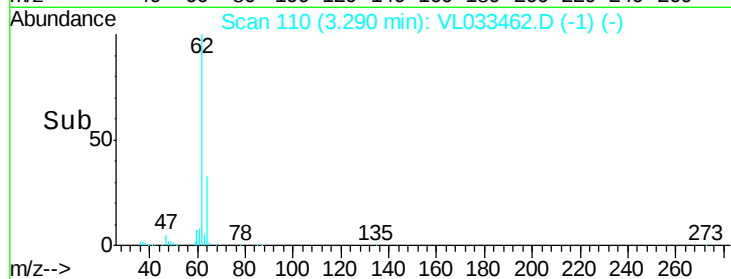
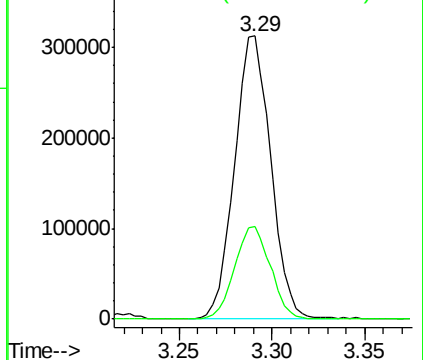
MMDadoda

4/1/2019 1:23:18 AM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 10.011 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033462.D

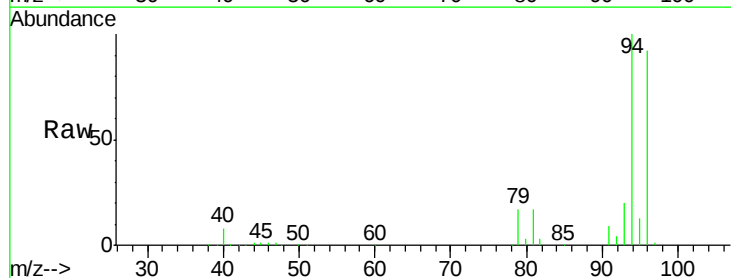
Acq: 26 Mar 2019 8:04

Tgt Ion: 94 Resp: 271436

Ion Ratio Lower Upper

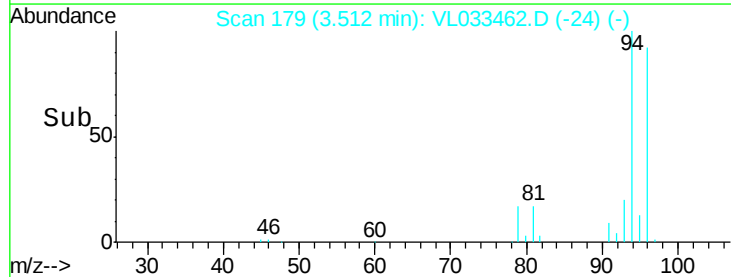
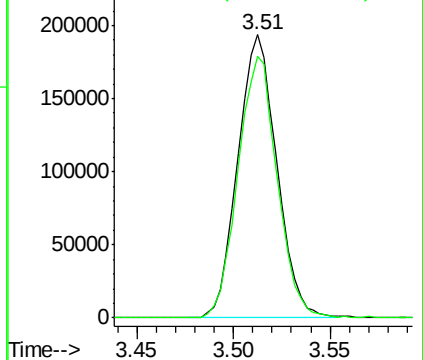
94 100

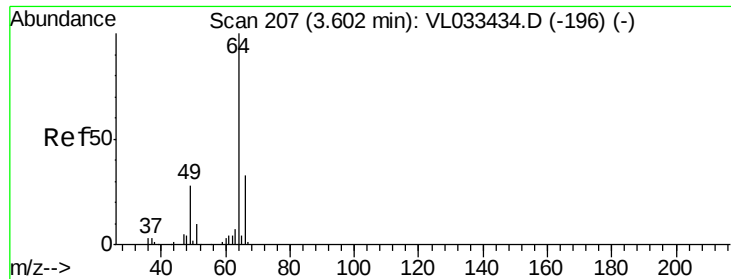
96 92.3 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.814 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033462.D

Acq: 26 Mar 2019 8:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 154099

Ion Ratio Lower Upper

64 100

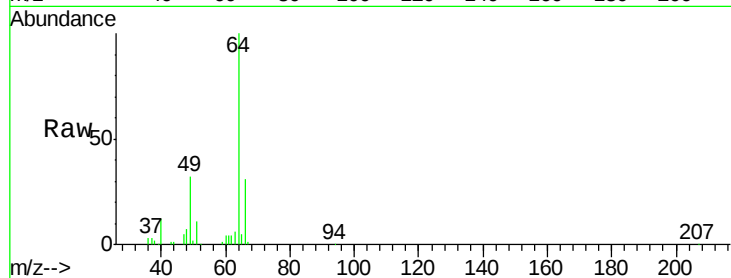
66 30.9 26.7 40.1

Manual Integrations

APPROVED

MMDadoda

4/1/2019 1:23:18 AM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

120000

100000

80000

60000

40000

20000

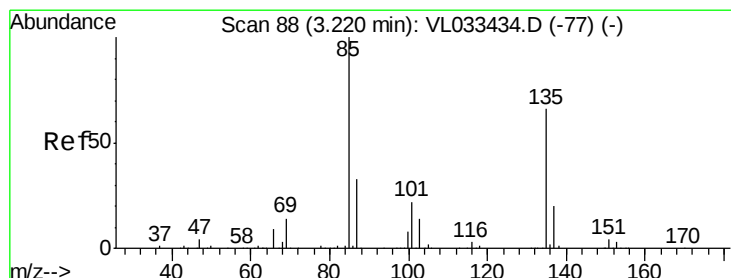
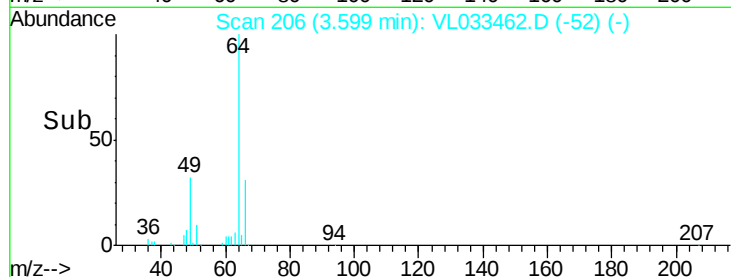
0

Time-->

3.55

3.60

3.65



#8

Dichlorotetrafluoroethane

Concen: 9.852 ppbv

RT: 3.22 min Scan# 87

Delta R.T. -0.00 min

Lab File: VL033462.D

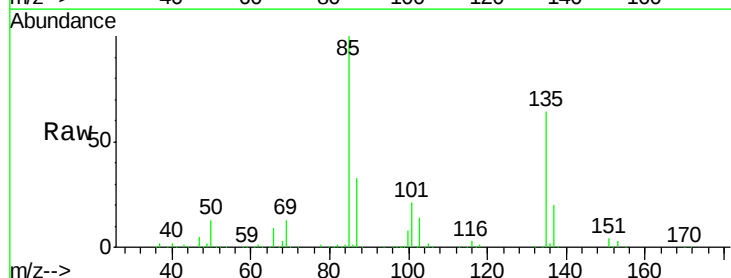
Acq: 26 Mar 2019 8:04

Tgt Ion: 85 Resp: 1079171

Ion Ratio Lower Upper

85 100

135 66.9 54.0 81.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

1000000

800000

600000

400000

200000

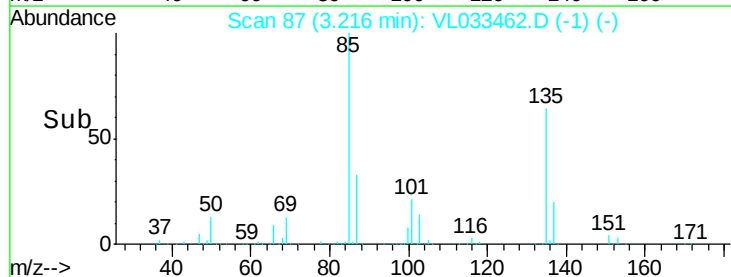
0

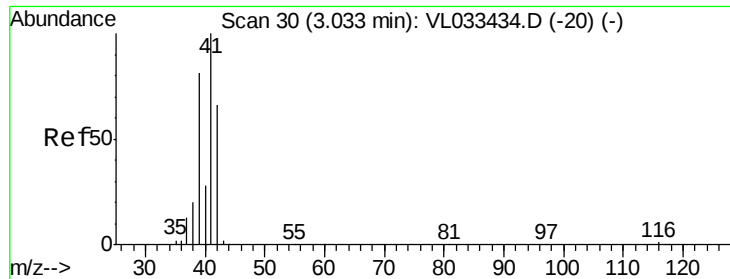
Time-->

3.15

3.20

3.25





#9

Propene

Concen: 9.950 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.00 min

Lab File: VL033462.D

Acq: 26 Mar 2019 8:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 339061

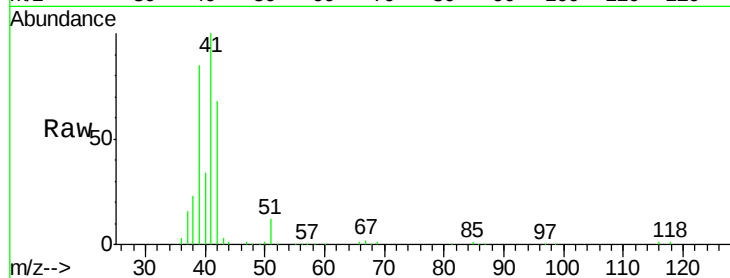
Ion Ratio Lower Upper

41 100

42 67.9 53.9 80.9

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:23:18 AM



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.03

250000

200000

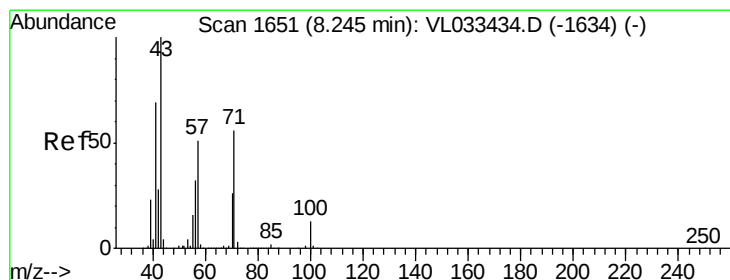
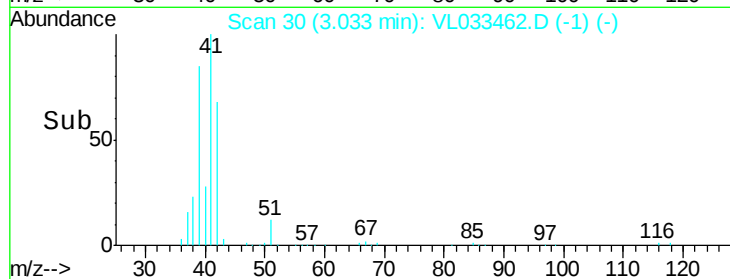
150000

100000

50000

0

Time-->



#10

Heptane

Concen: 10.414 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. 0.00 min

Lab File: VL033462.D

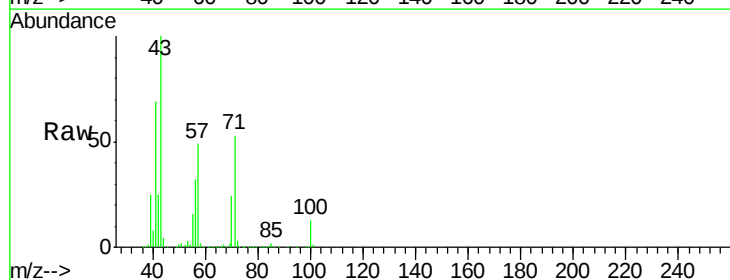
Acq: 26 Mar 2019 8:04

Tgt Ion: 43 Resp: 890141

Ion Ratio Lower Upper

43 100

57 50.4 40.6 60.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.25

500000

400000

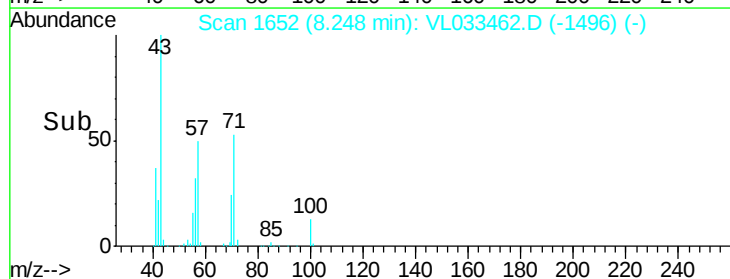
300000

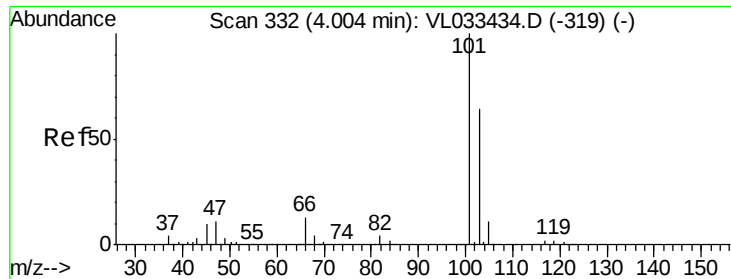
200000

100000

0

Time-->





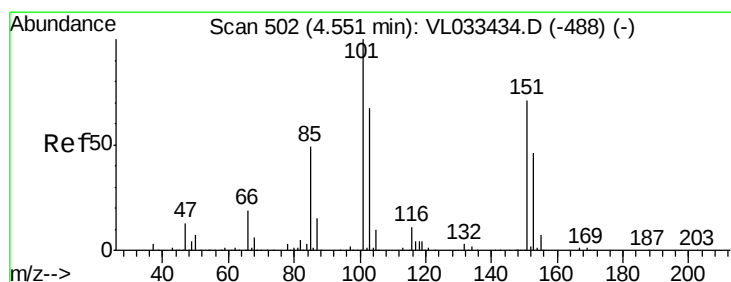
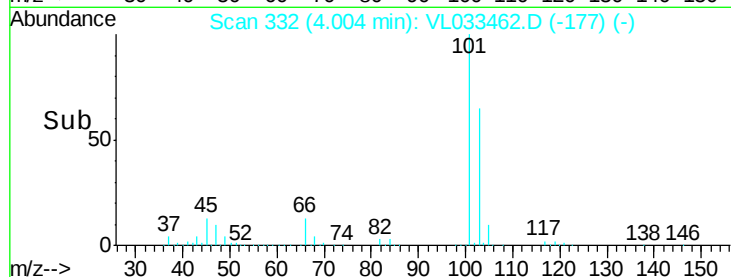
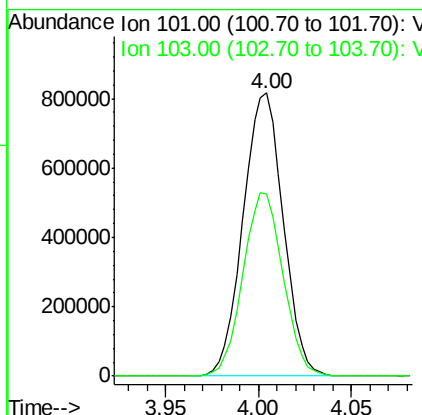
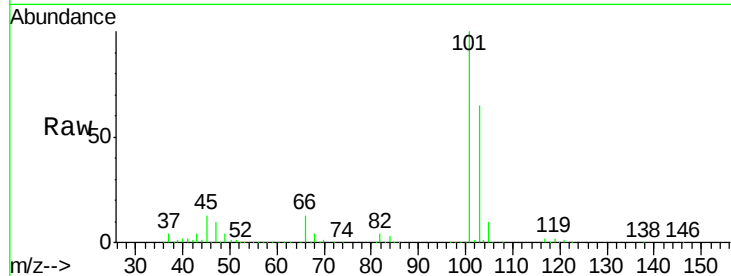
#11
 Trichlorofluoromethane
 Concen: 9.680 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. -0.00 min
 Lab File: VL033462.D
 Acq: 26 Mar 2019 8:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 1226423
 Ion Ratio Lower Upper
 101 100
 103 64.5 51.3 76.9

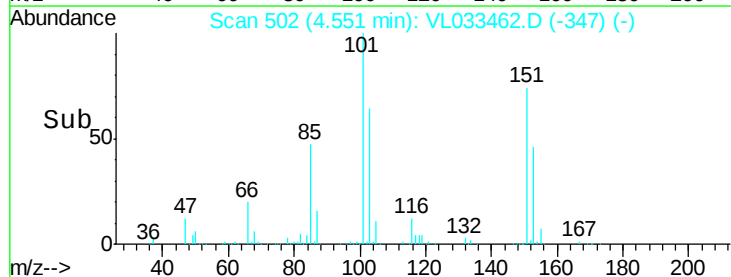
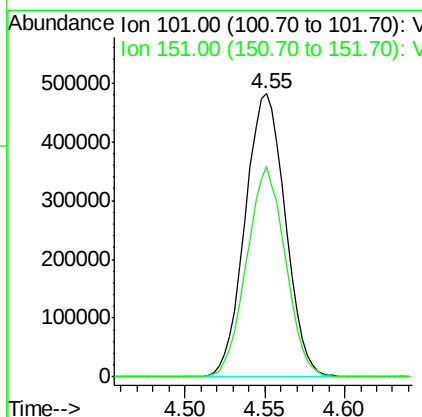
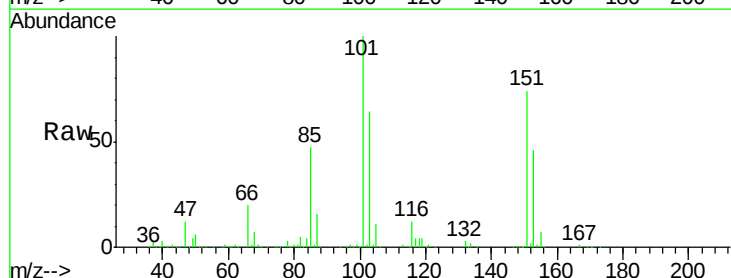
Manual Integrations
 APPROVED

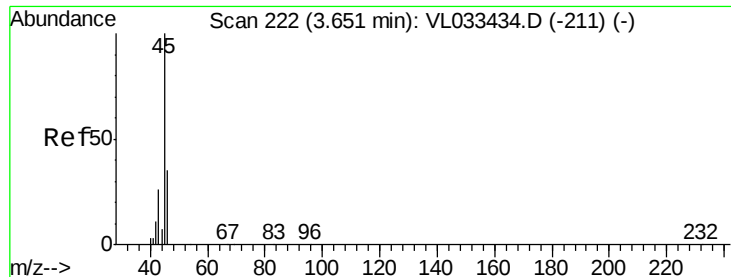
MMDadoda
 4/1/2019 1:23:18 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.723 ppbv
 RT: 4.55 min Scan# 502
 Delta R.T. -0.00 min
 Lab File: VL033462.D
 Acq: 26 Mar 2019 8:04

Tgt Ion:101 Resp: 827406
 Ion Ratio Lower Upper
 101 100
 151 71.9 57.7 86.5





#13

Ethanol

Concen: 11.589 ppbv

RT: 3.65 min Scan# 221

Delta R.T. -0.00 min

Lab File: VL033462.D

Acq: 26 Mar 2019 8:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 102200

Ion Ratio Lower Upper

45 100

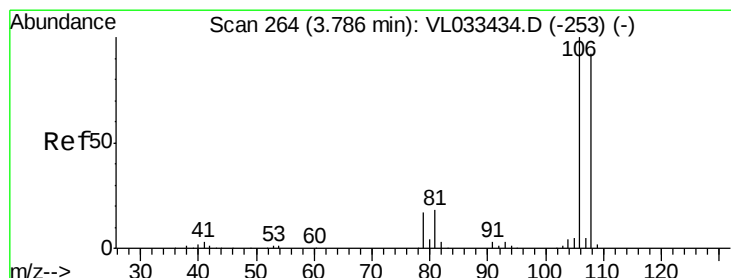
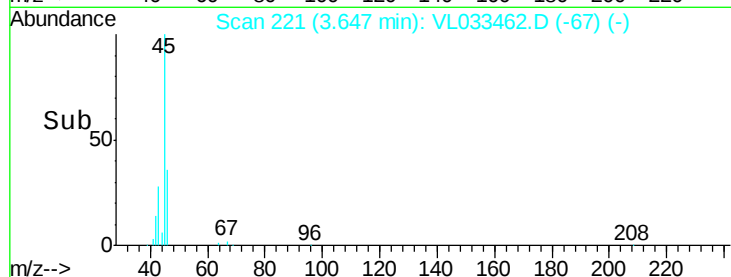
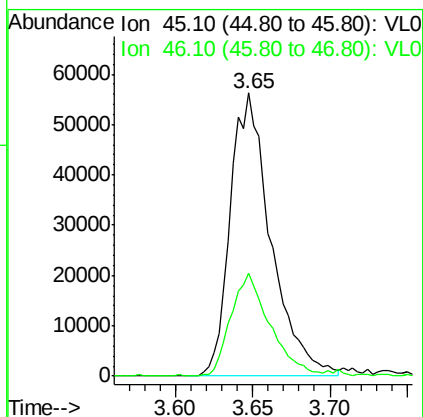
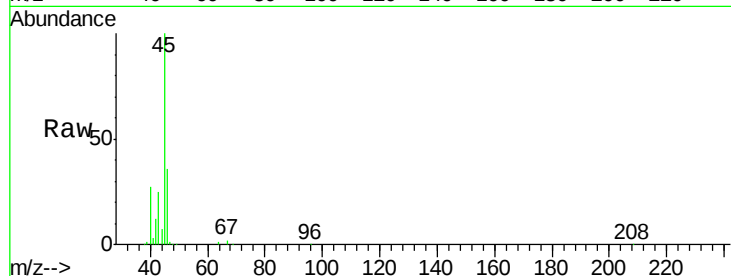
46 36.4 25.4 101.8

Manual Integrations

APPROVED

MMDadoda

4/1/2019 1:23:18 AM



#14

Bromoethene

Concen: 10.234 ppbv

RT: 3.79 min Scan# 264

Delta R.T. -0.00 min

Lab File: VL033462.D

Acq: 26 Mar 2019 8:04

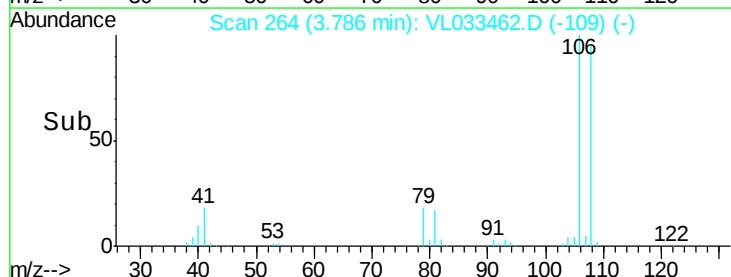
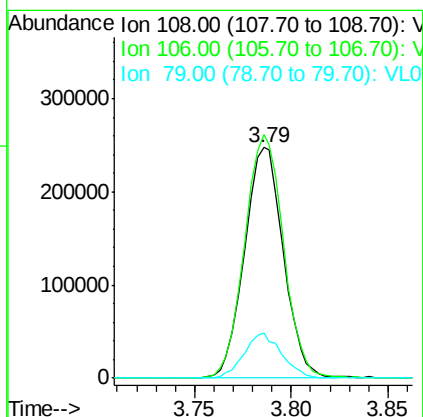
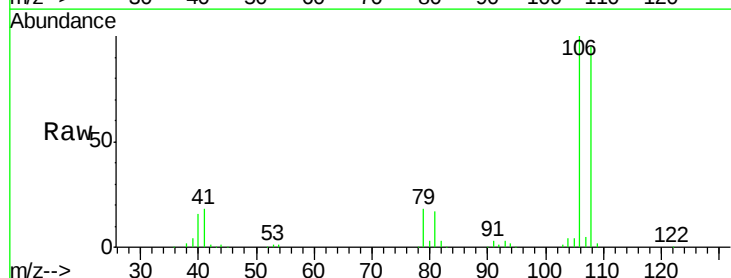
Tgt Ion: 108 Resp: 347327

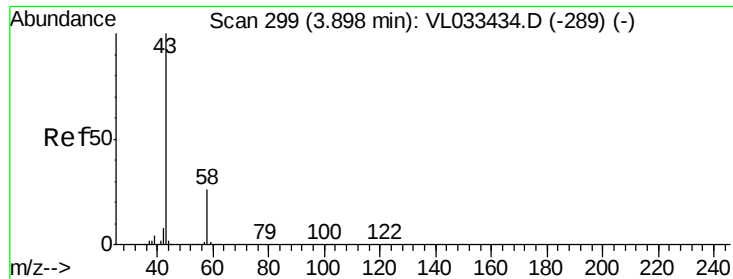
Ion Ratio Lower Upper

108 100

106 105.7 86.4 129.6

79 19.1 15.8 23.8





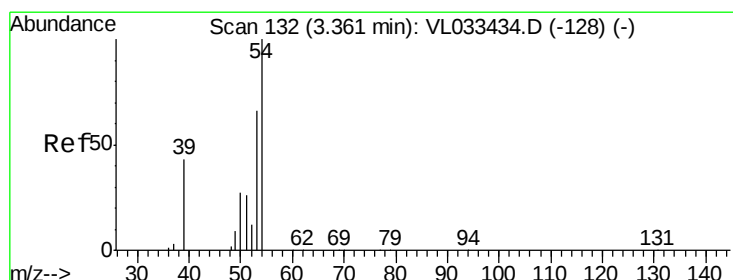
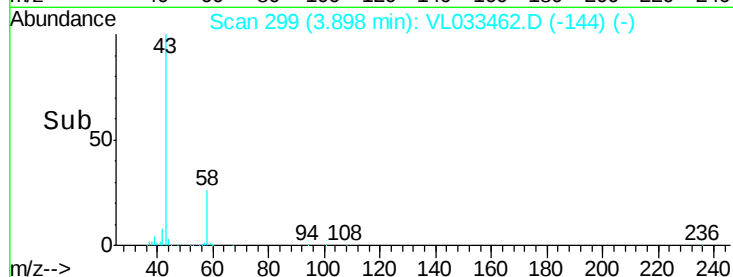
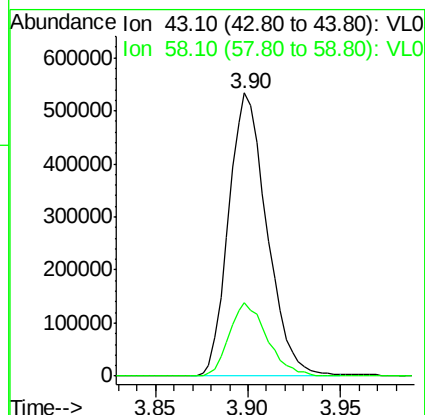
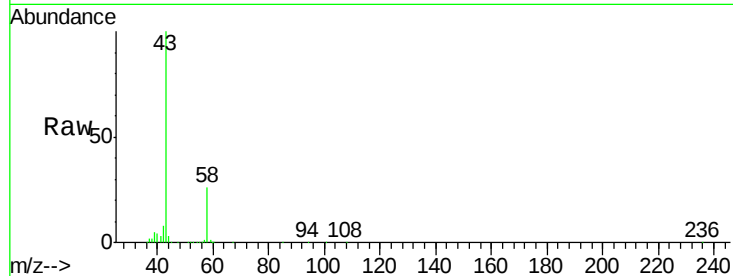
#15
Acetone
Concen: 9.022 ppbv
RT: 3.90 min Scan# 299
Delta R.T. -0.00 min
Lab File: VL033462.D
Acq: 26 Mar 2019 8:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 764646
Ion Ratio Lower Upper
43 100
58 26.0 20.5 30.7

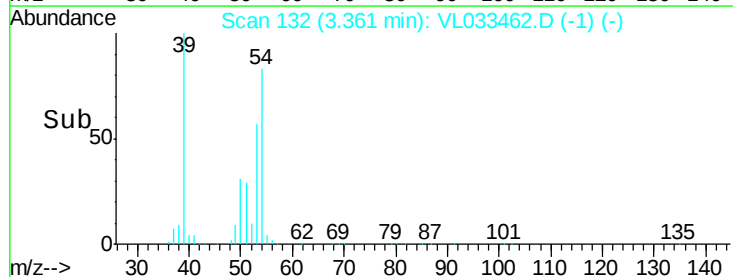
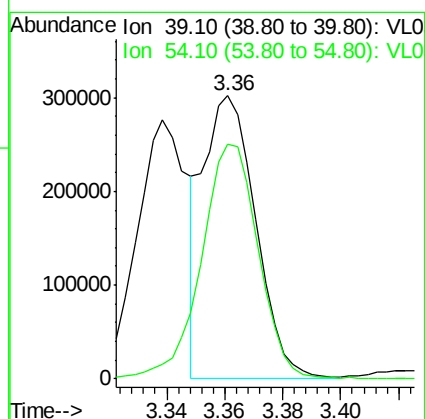
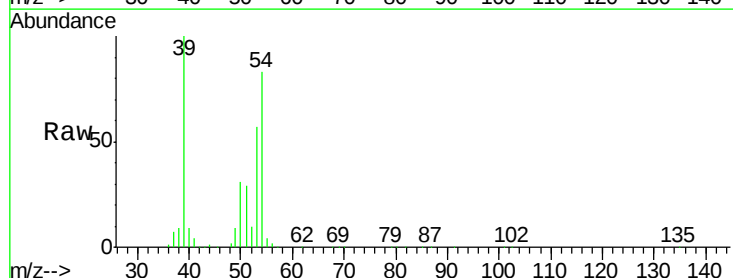
Manual Integrations
APPROVED

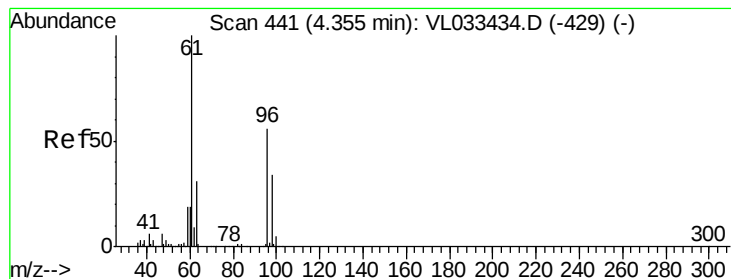
MMDadoda
4/1/2019 1:23:18 AM



#16
1,3-Butadiene
Concen: 11.197 ppbv
RT: 3.36 min Scan# 132
Delta R.T. -0.00 min
Lab File: VL033462.D
Acq: 26 Mar 2019 8:04

Tgt Ion: 39 Resp: 376403
Ion Ratio Lower Upper
39 100
54 91.3 69.4 104.2





#17

tert-Butyl alcohol

Concen: 10.130 ppbv

RT: 4.35 min Scan# 441

Delta R.T. -0.00 min

Lab File: VL033462.D

Acq: 26 Mar 2019 8:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 59 Resp: 157861

Ion Ratio Lower Upper

59 100

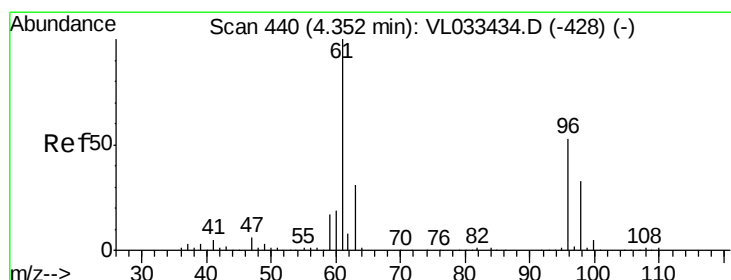
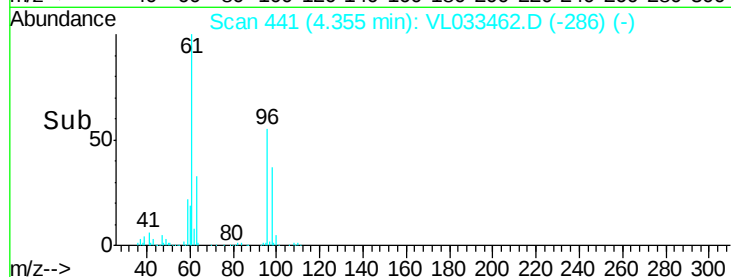
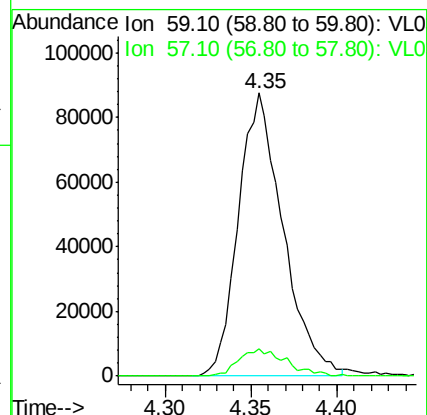
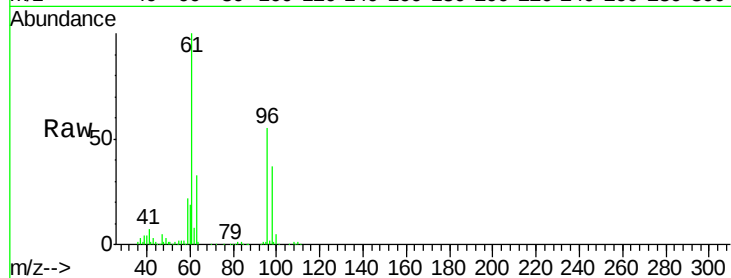
57 10.4 7.8 11.8

Manual Integrations

APPROVED

MMDadoda

4/1/2019 1:23:18 AM



#18

1,1-Dichloroethene

Concen: 10.032 ppbv

RT: 4.35 min Scan# 439

Delta R.T. -0.00 min

Lab File: VL033462.D

Acq: 26 Mar 2019 8:04

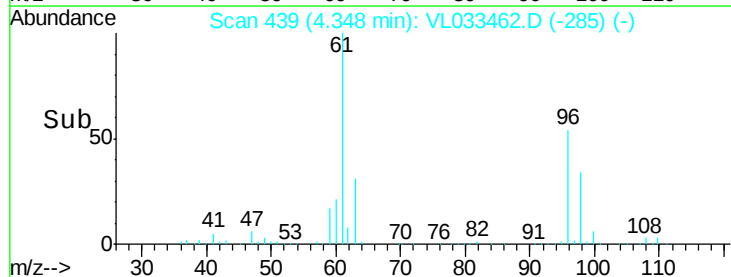
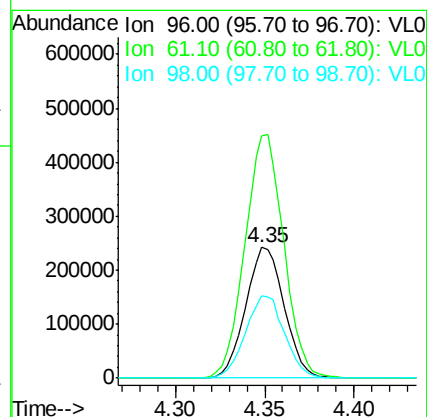
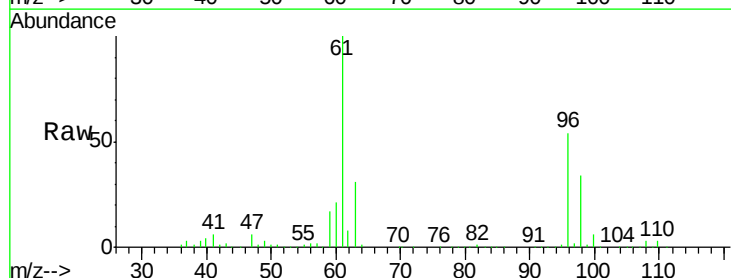
Tgt Ion: 96 Resp: 366676

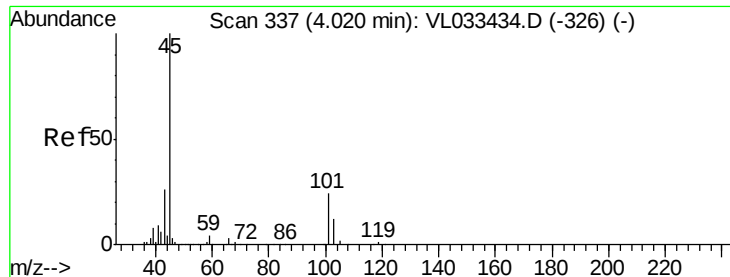
Ion Ratio Lower Upper

96 100

61 185.7 149.8 224.6

98 62.7 48.7 73.1





#19

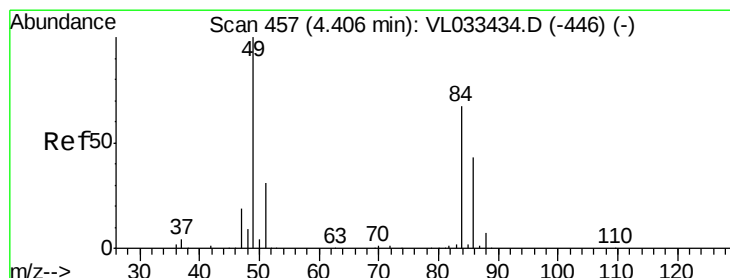
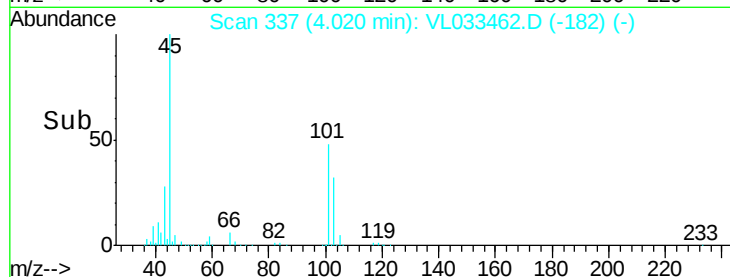
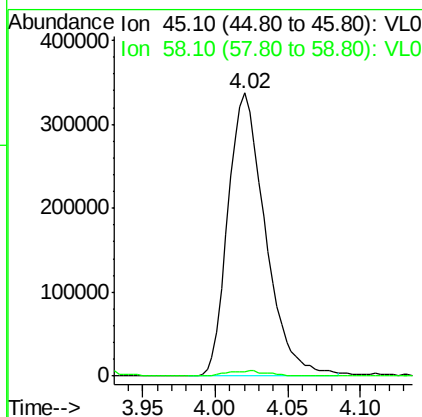
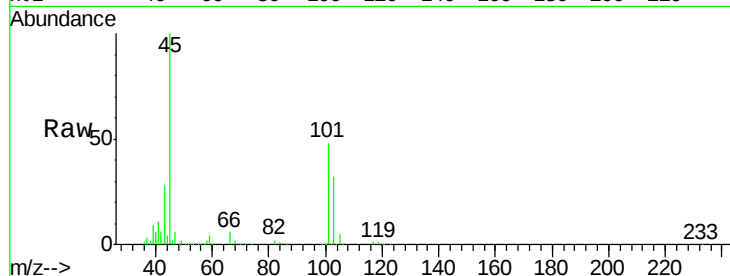
Isopropyl Alcohol
 Concen: 11.267 ppbv
 RT: 4.02 min Scan# 337
 Delta R.T. -0.00 min
 Lab File: VL033462.D
 Acq: 26 Mar 2019 8:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 45 Resp: 603950
 Ion Ratio Lower Upper
 45 100
 58 2.4 1.4 2.2#

Manual Integrations
 APPROVED

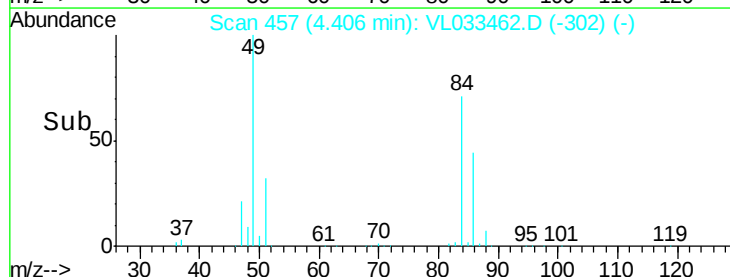
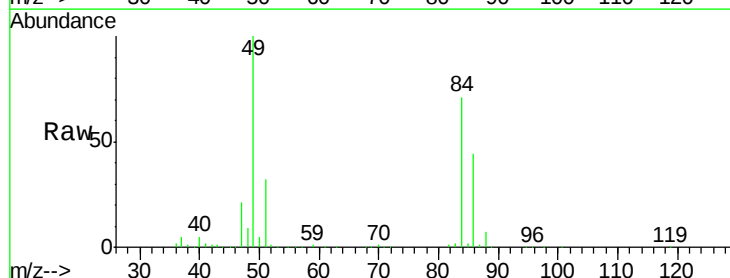
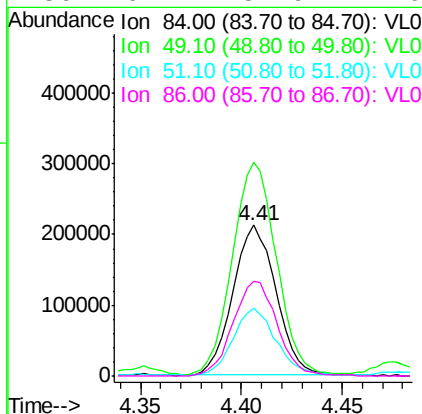
MMDadoda
 4/1/2019 1:23:18 AM

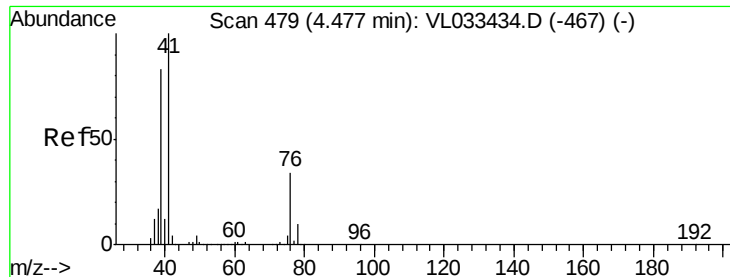


#20

Methylene Chloride
 Concen: 8.867 ppbv
 RT: 4.41 min Scan# 457
 Delta R.T. -0.00 min
 Lab File: VL033462.D
 Acq: 26 Mar 2019 8:04

Tgt Ion: 84 Resp: 318986
 Ion Ratio Lower Upper
 84 100
 49 141.2 120.0 180.0
 51 44.9 36.7 55.1
 86 62.4 51.9 77.9





#21

Allvl Chloride

Concen: 10.151 ppbv

RT: 4.48 min Scan# 479

Delta R.T. -0.00 min

Lab File: VL033462.D

Acq: 26 Mar 2019 8:04

Instrument :

MSVOA_L

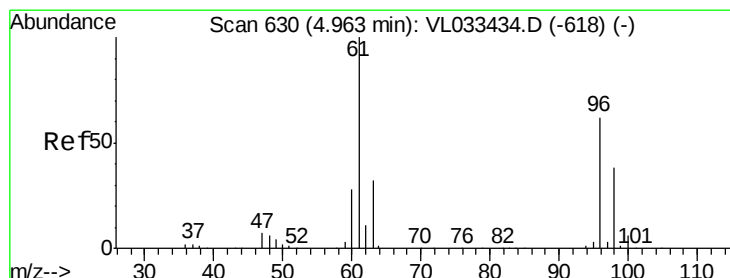
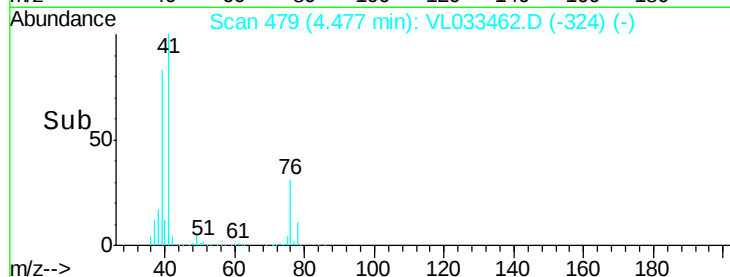
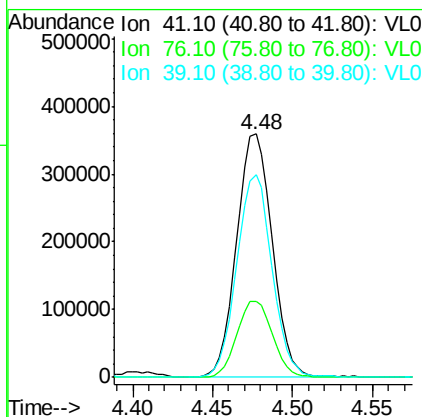
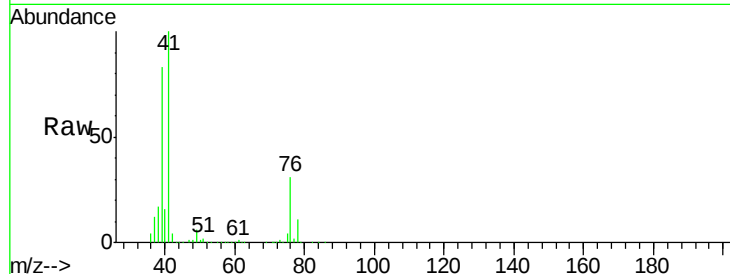
ClientSampleId :

VSTDCCC010EC

Tot Ion:	41	Resp:	543832
Ion Ratio	Lower	Upper	
41	100		
76	31.5	25.4	38.2
39	82.4	65.3	97.9

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:23:18 AM



#22

trans-1,2-Dichloroethene

Concen: 9.699 ppbv

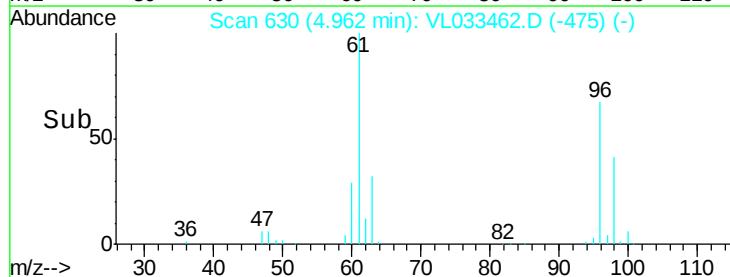
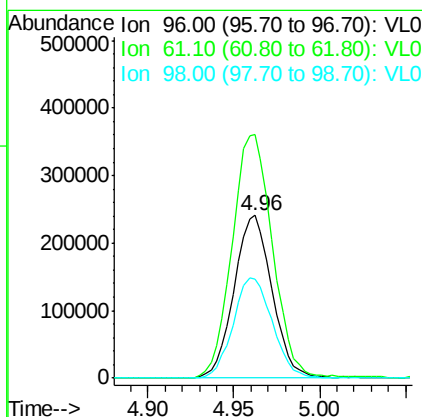
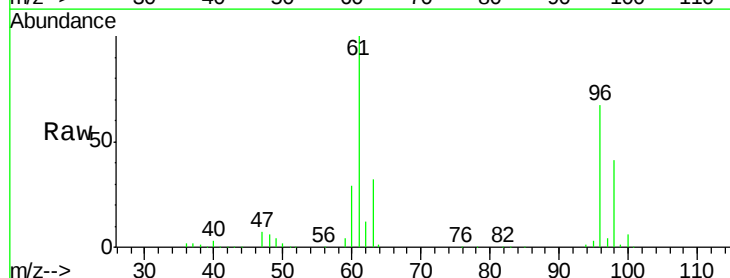
RT: 4.96 min Scan# 630

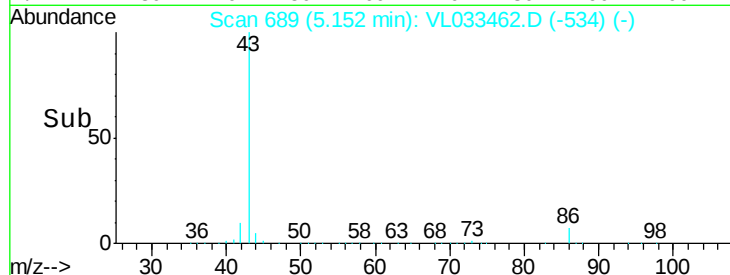
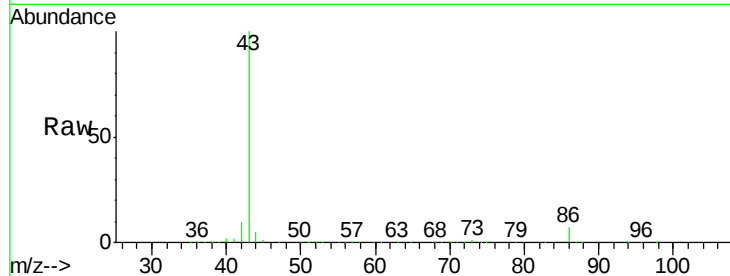
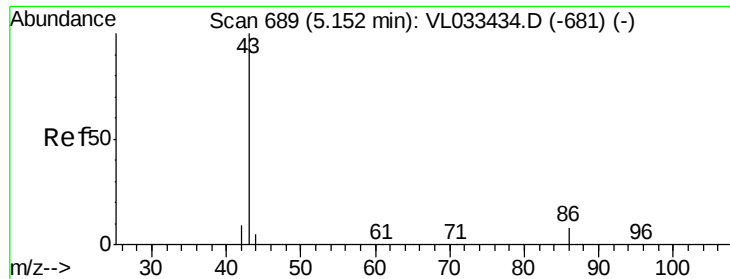
Delta R.T. -0.00 min

Lab File: VL033462.D

Acq: 26 Mar 2019 8:04

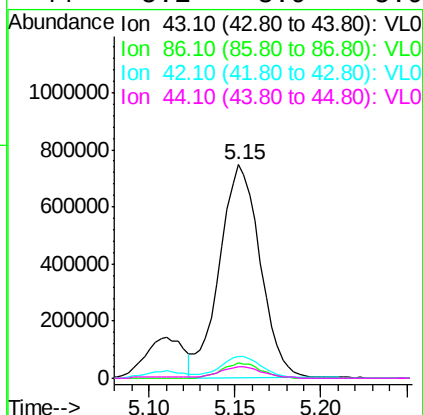
Tgt Ion:	96	Resp:	369871
Ion Ratio	Lower	Upper	
96	100		
61	149.6	128.9	193.3
98	61.1	49.5	74.3





#23
 Vinyl Acetate
 Concen: 10.181 ppbv
 RT: 5.15 min Scan# 689
 Delta R.T. -0.00 min
 Lab File: VL033462.D
 Acq: 26 Mar 2019 8:04

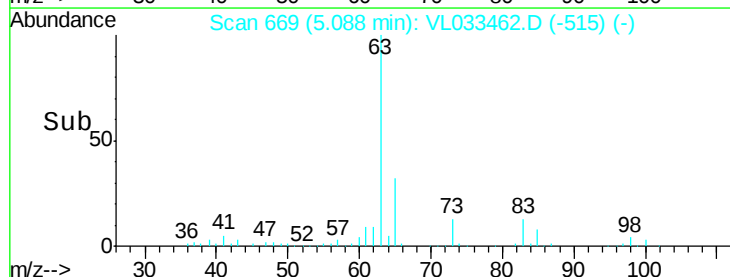
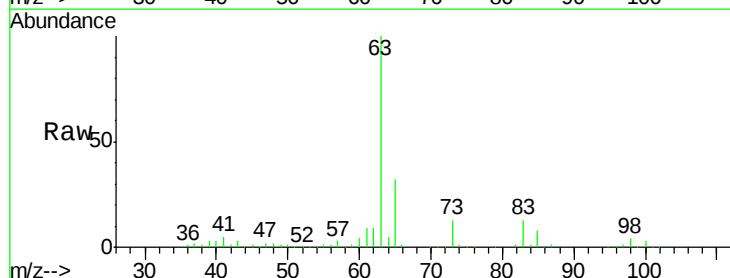
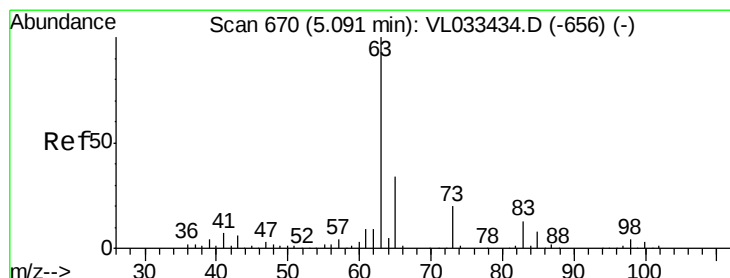
Tot Ion:	43	Resp:	1228111
Ion	Ratio	Lower	Upper
43	100		
86	7.0	5.6	8.4
42	10.3	8.0	12.0
44	5.1	3.9	5.9



Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

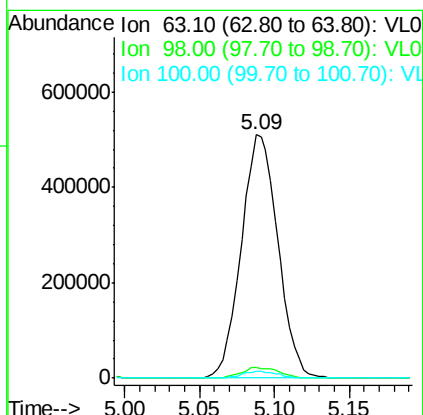
Manual Integrations
 APPROVED

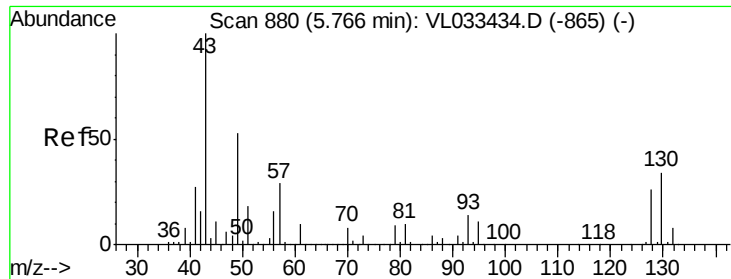
MMDadoda
 4/1/2019 1:23:18 AM



#24
 1,1-Dichloroethane
 Concen: 9.464 ppbv
 RT: 5.09 min Scan# 669
 Delta R.T. -0.00 min
 Lab File: VL033462.D
 Acq: 26 Mar 2019 8:04

Tgt Ion:	63	Resp:	867197
Ion	Ratio	Lower	Upper
63	100		
98	4.2	2.2	6.6
100	2.7	1.5	4.4





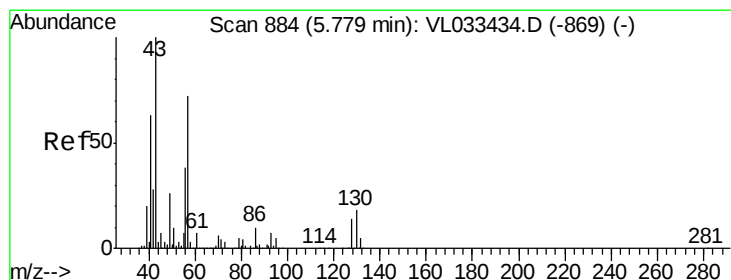
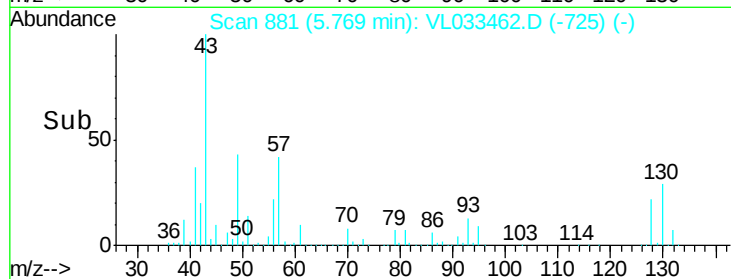
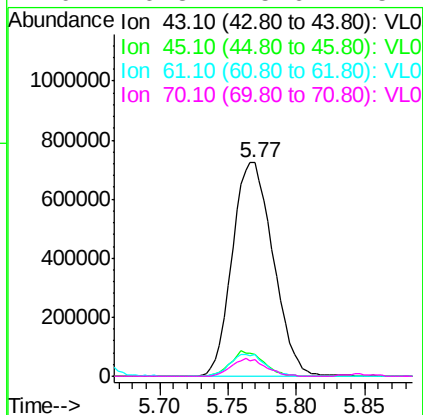
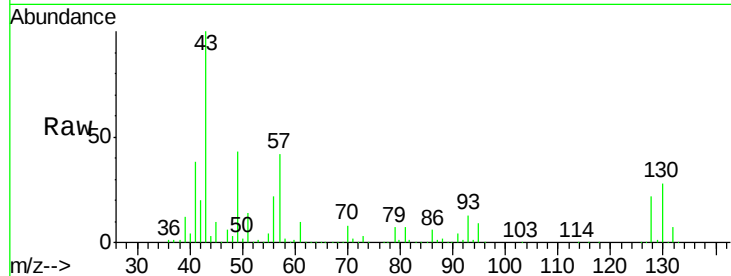
#25
Ethyl Acetate
Concen: 9.567 ppbv
RT: 5.77 min Scan# 881
Delta R.T. 0.00 min
Lab File: VL033462.D
Acq: 26 Mar 2019 8:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:	43	Resp:	1504289
Ion	Ratio	Lower	Upper
43	100		
45	9.7	7.8	11.6
61	9.2	7.3	10.9
70	6.8	5.6	8.4

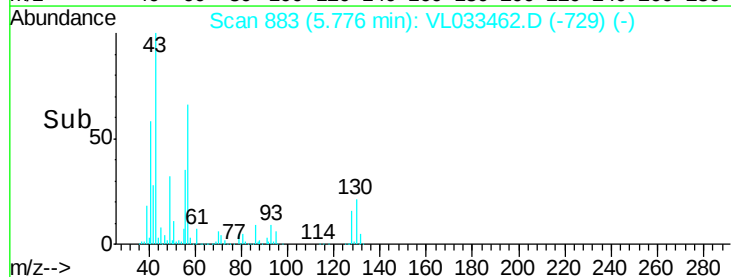
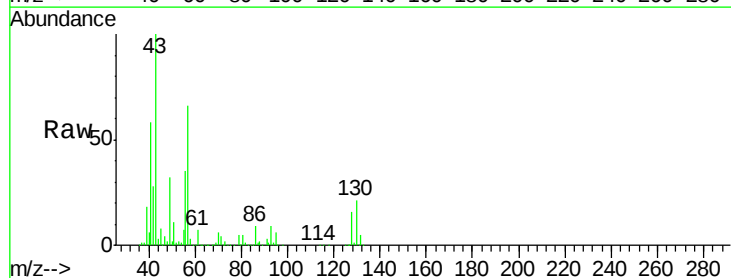
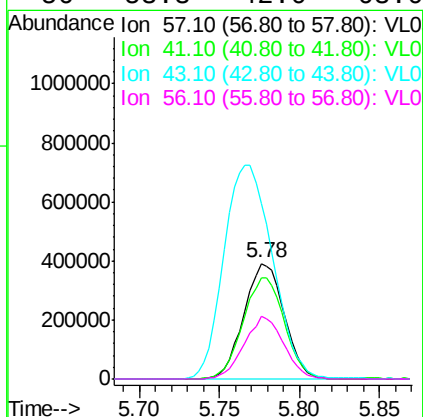
Manual Integrations
APPROVED

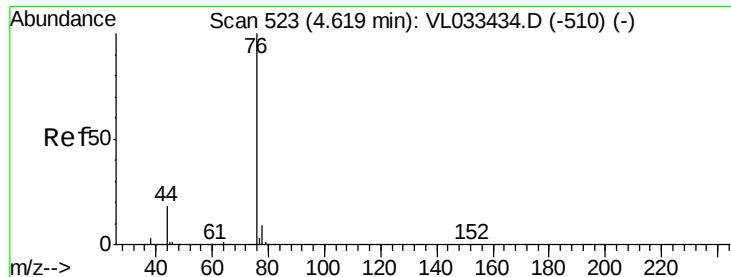
MMDadoda
4/1/2019 1:23:18 AM



#26
Hexane
Concen: 9.623 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL033462.D
Acq: 26 Mar 2019 8:04

Tgt Ion:	57	Resp:	672780
Ion	Ratio	Lower	Upper
57	100		
41	90.1	70.7	106.1
43	224.8	182.6	274.0
56	53.3	42.0	63.0





#27

Carbon Disulfide

Concen: 10.791 ppbv

RT: 4.62 min Scan# 523

Delta R.T. -0.00 min

Lab File: VL033462.D

Acq: 26 Mar 2019 8:04

Instrument :

MSVOA_L

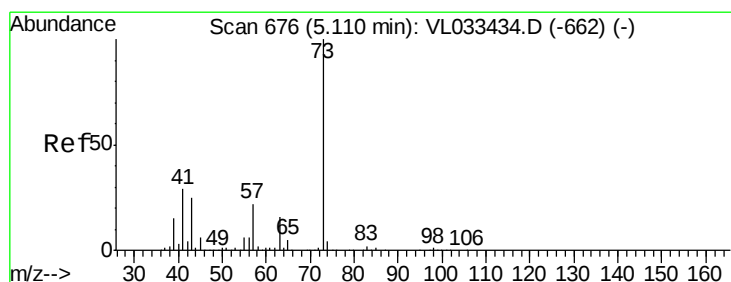
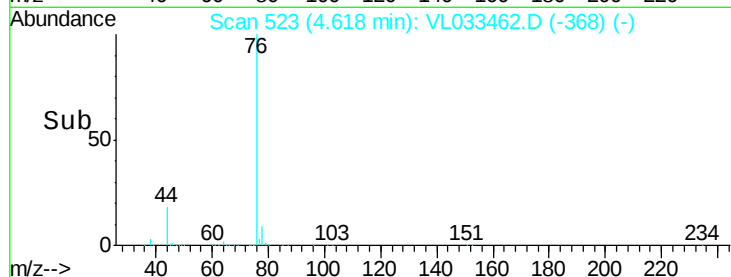
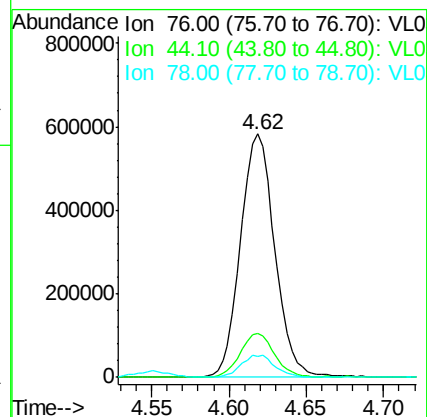
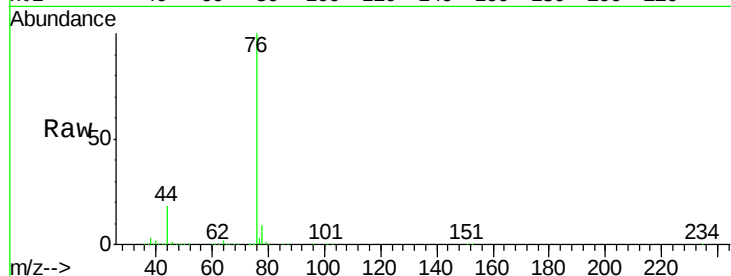
ClientSampleId :

VSTDCCC010EC

Tot Ion:	76	Resp:	897157
Ion Ratio	Lower	Upper	
76	100		
44	17.7	14.8	22.2
78	9.1	7.6	11.4

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:23:18 AM



#28

Methyl tert-Butyl Ether

Concen: 9.678 ppbv

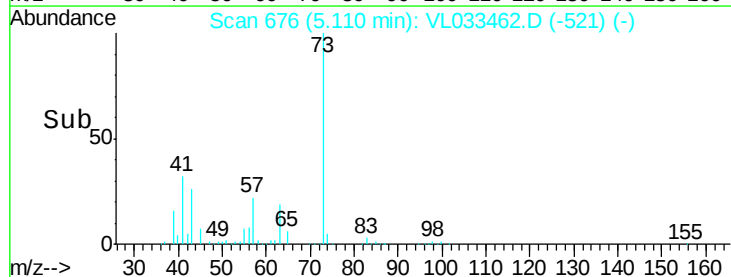
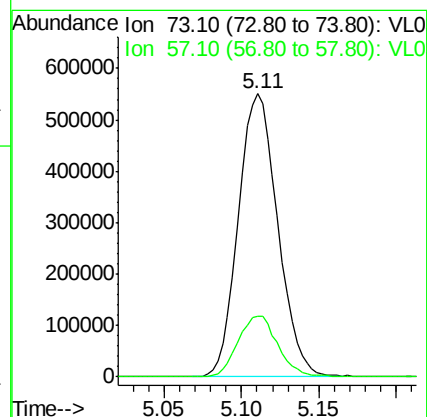
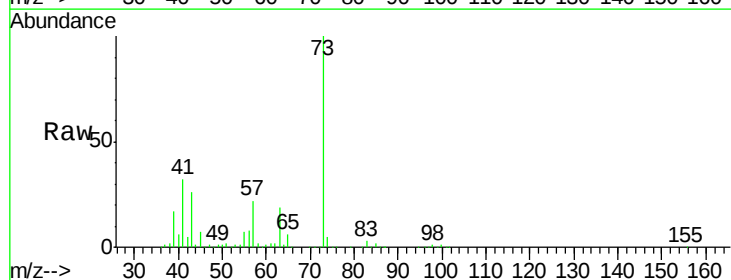
RT: 5.11 min Scan# 676

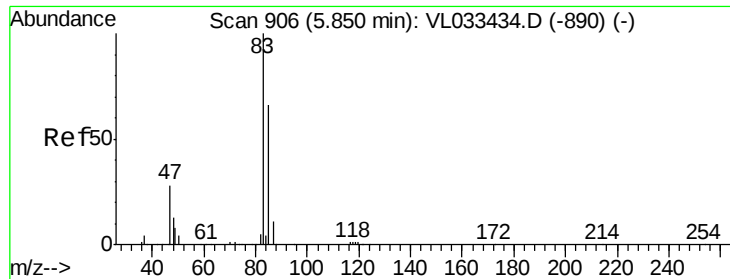
Delta R.T. -0.00 min

Lab File: VL033462.D

Acq: 26 Mar 2019 8:04

Tgt Ion:	73	Resp:	974564
Ion Ratio	Lower	Upper	
73	100		
57	21.9	17.4	26.2





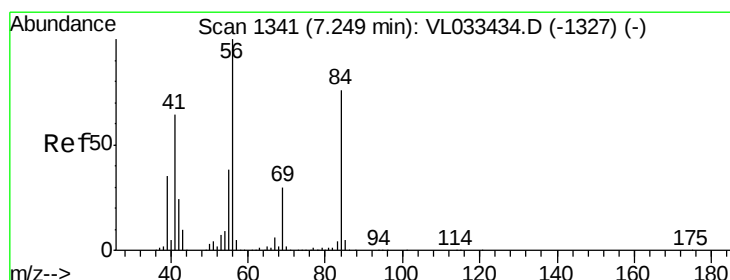
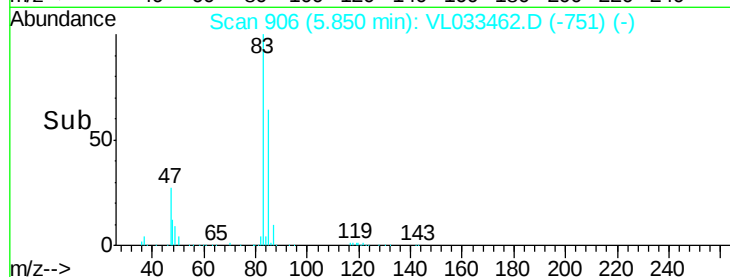
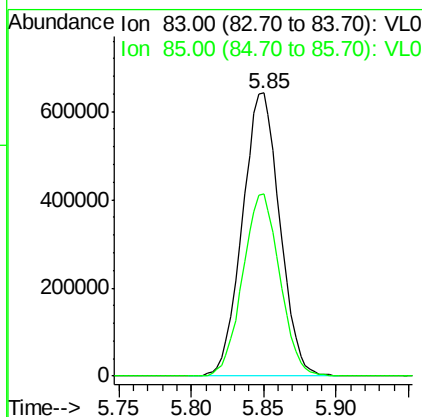
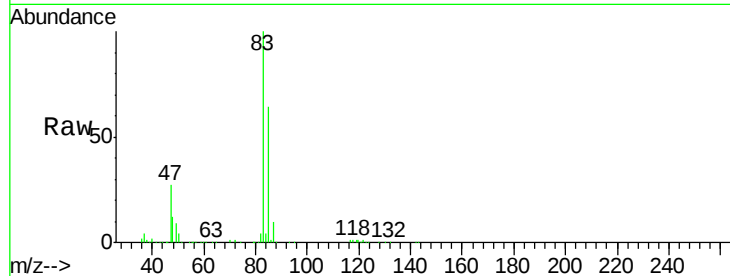
#29
Chloroform
Concen: 9.622 ppbv
RT: 5.85 min Scan# 906
Delta R.T. -0.00 min
Lab File: VL033462.D
Acq: 26 Mar 2019 8:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 1153223
Ion Ratio Lower Upper
83 100
85 64.1 52.6 79.0

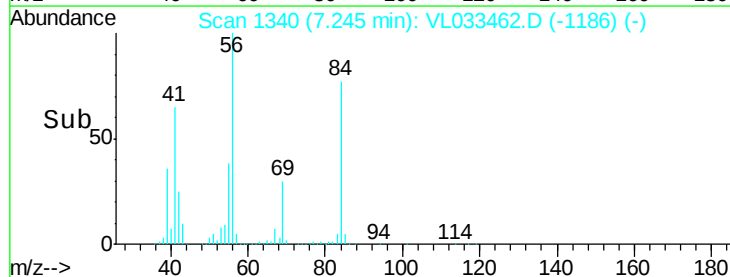
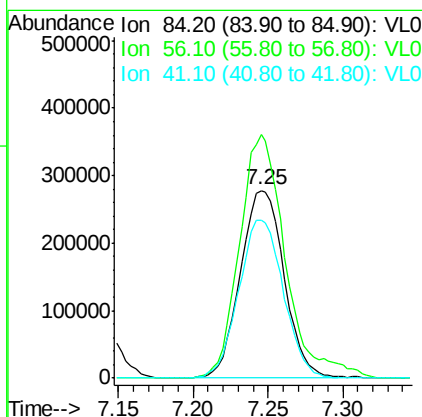
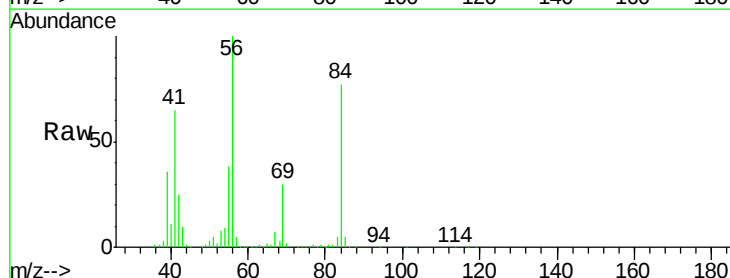
Manual Integrations
APPROVED

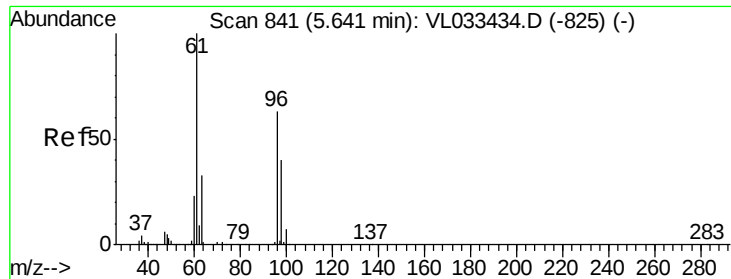
MMDadoda
4/1/2019 1:23:18 AM



#30
Cyclohexane
Concen: 10.203 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VL033462.D
Acq: 26 Mar 2019 8:04

Tgt Ion: 84 Resp: 564312
Ion Ratio Lower Upper
84 100
56 136.7 109.7 164.5
41 86.3 68.2 102.2





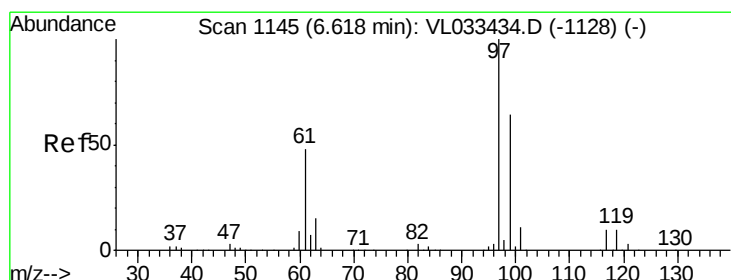
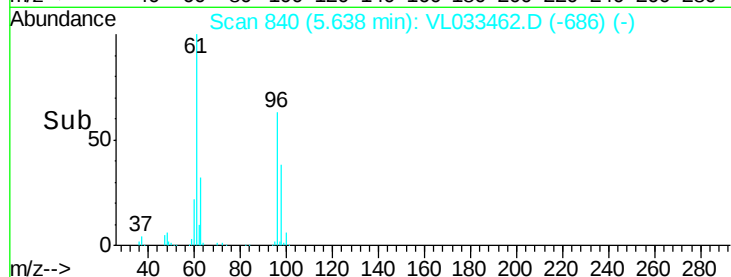
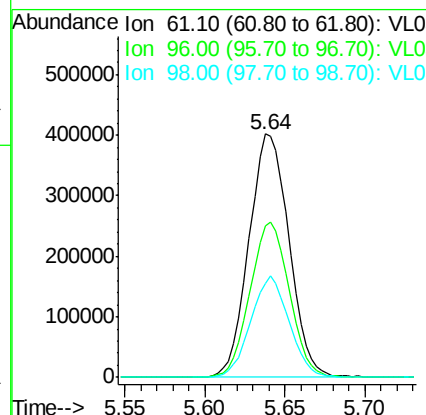
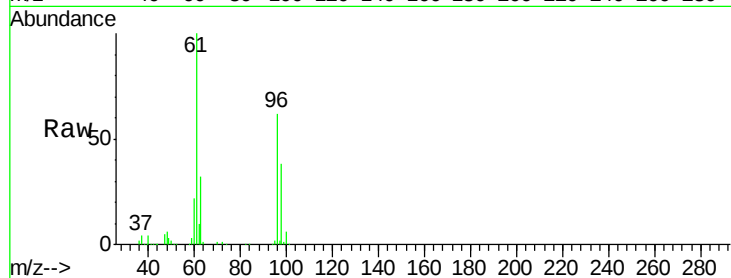
#31
 cis-1,2-Dichloroethene
 Concen: 9.949 ppbv
 RT: 5.64 min Scan# 840
 Delta R.T. -0.00 min
 Lab File: VL033462.D
 Acq: 26 Mar 2019 8:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	62.5	50.6	76.0
98	38.3	32.2	48.2

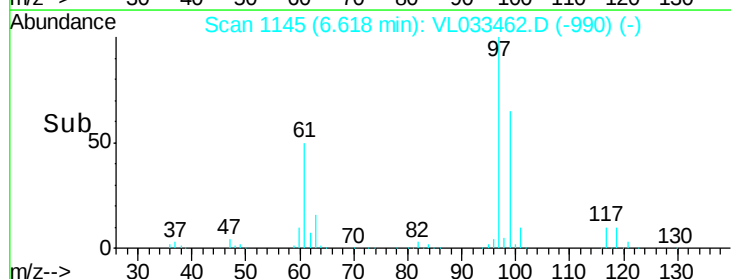
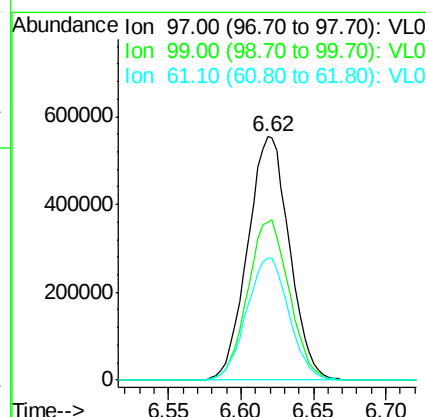
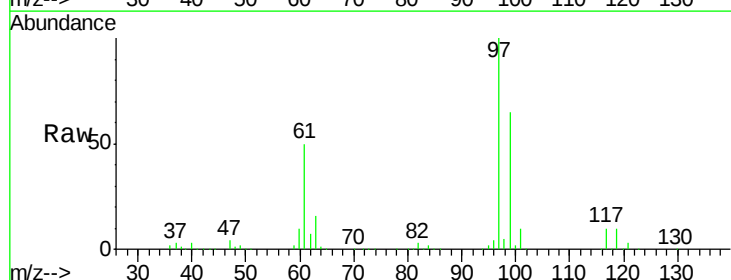
Manual Integrations
 APPROVED

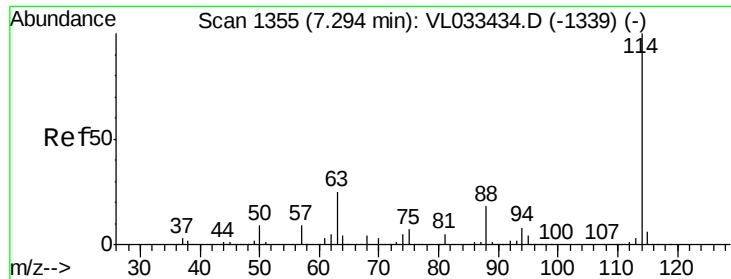
MMDadoda
 4/1/2019 1:23:18 AM



#32
 1,1,1-Trichloroethane
 Concen: 9.760 ppbv
 RT: 6.62 min Scan# 1145
 Delta R.T. -0.00 min
 Lab File: VL033462.D
 Acq: 26 Mar 2019 8:04

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.4	51.5	77.3
61	50.8	38.8	58.2





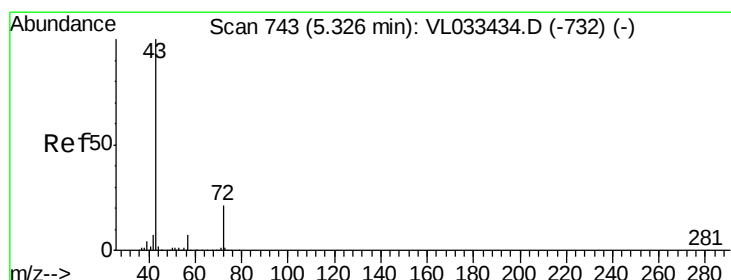
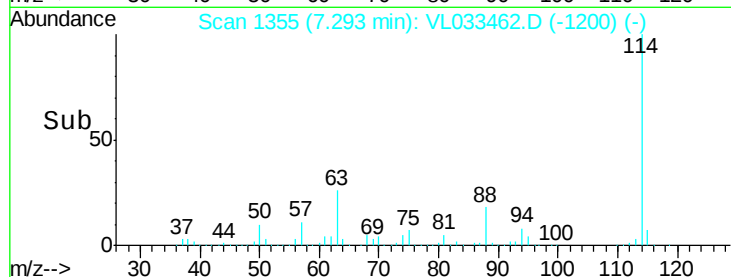
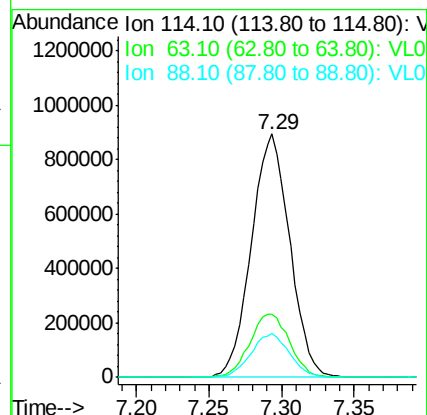
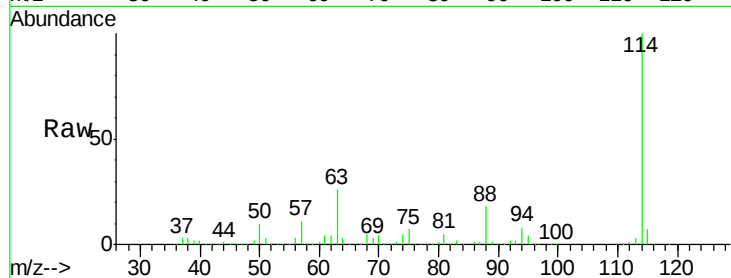
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.00 min
 Lab File: VL033462.D
 Acq: 26 Mar 2019 8:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.2	21.5	32.3
88	18.1	14.5	21.7

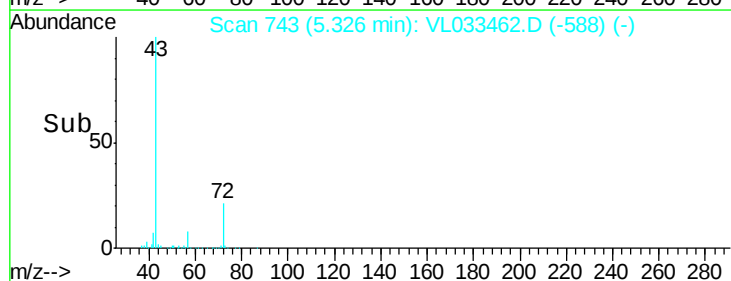
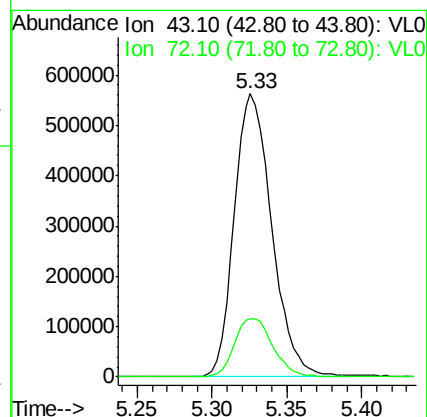
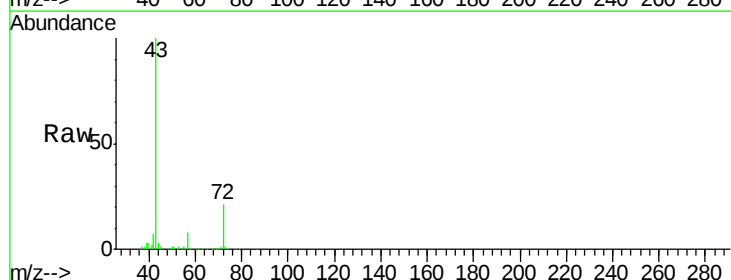
Manual Integrations
 APPROVED

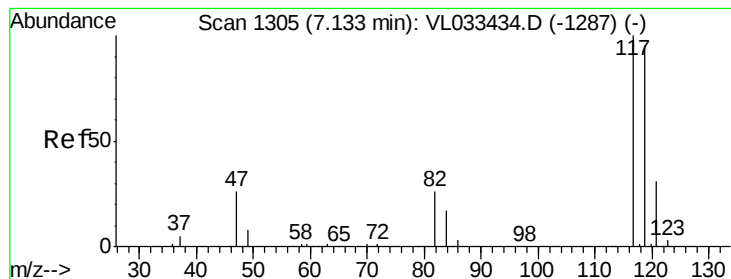
MMDadoda
 4/1/2019 1:23:18 AM



#34
 2-Butanone
 Concen: 9.900 ppbv
 RT: 5.33 min Scan# 743
 Delta R.T. -0.00 min
 Lab File: VL033462.D
 Acq: 26 Mar 2019 8:04

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.3	17.4	26.2





#35

Carbon Tetrachloride

Concen: 10.357 ppbv

RT: 7.13 min Scan# 1305

Delta R.T. -0.00 min

Lab File: VL033462.D

Acq: 26 Mar 2019 8:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 1209952

Ion Ratio Lower Upper

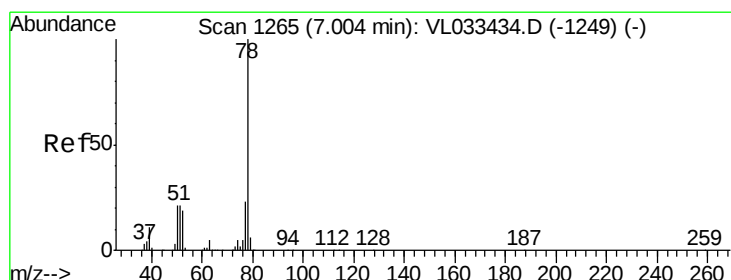
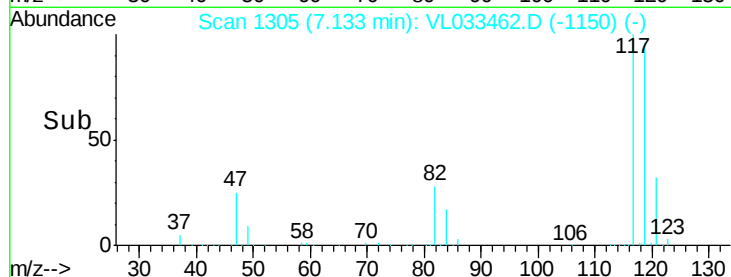
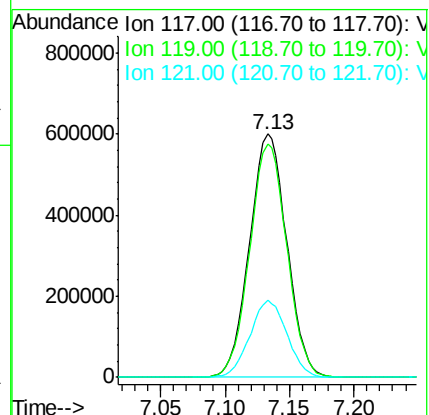
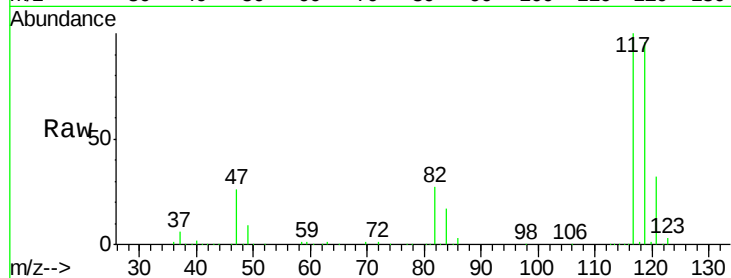
117 100

119 96.1 75.8 113.8

121 31.8 24.7 37.1

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:23:18 AM



#36

Benzene

Concen: 10.029 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. -0.00 min

Lab File: VL033462.D

Acq: 26 Mar 2019 8:04

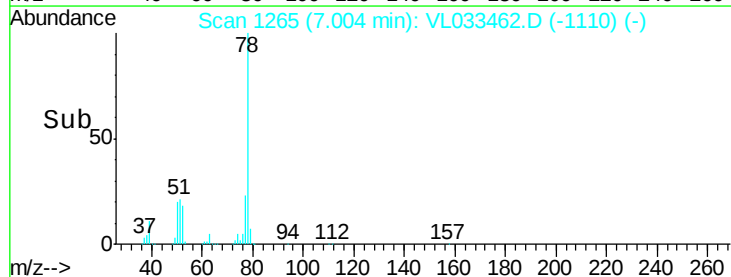
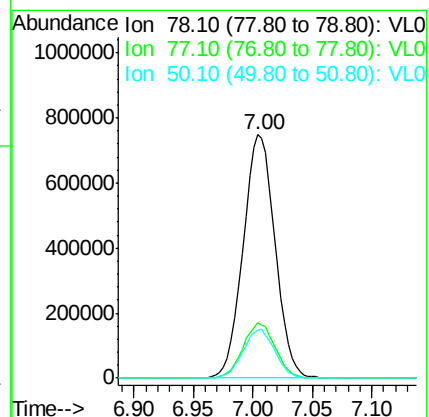
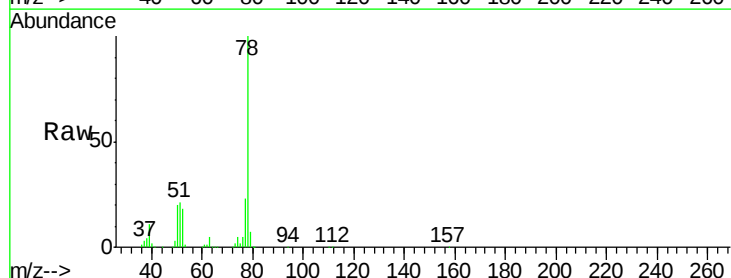
Tgt Ion: 78 Resp: 1387982

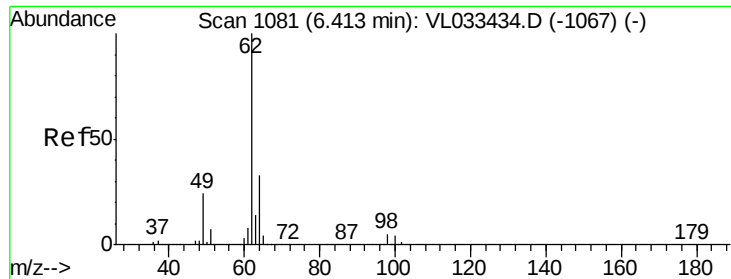
Ion Ratio Lower Upper

78 100

77 22.9 18.1 27.1

50 19.8 16.7 25.1





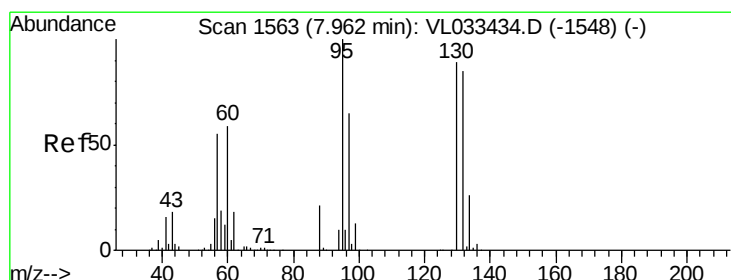
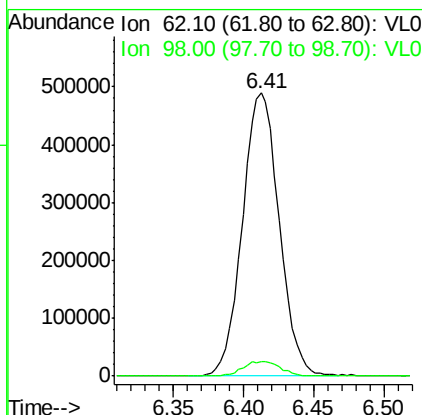
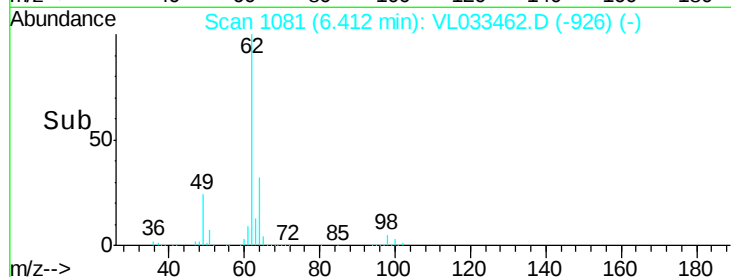
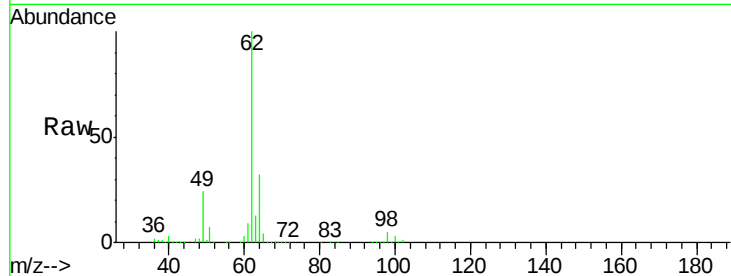
#37
 1,2-Dichloroethane
 Concen: 9.630 ppbv
 RT: 6.41 min Scan# 1081
 Delta R.T. -0.00 min
 Lab File: VL033462.D
 Acq: 26 Mar 2019 8:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Resp	Lower	Upper
62	100	893350		
98	5.4	4.4	6.6	

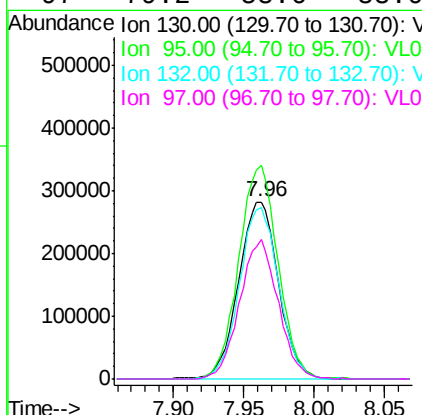
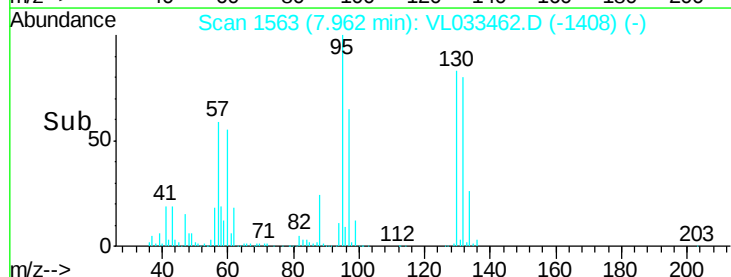
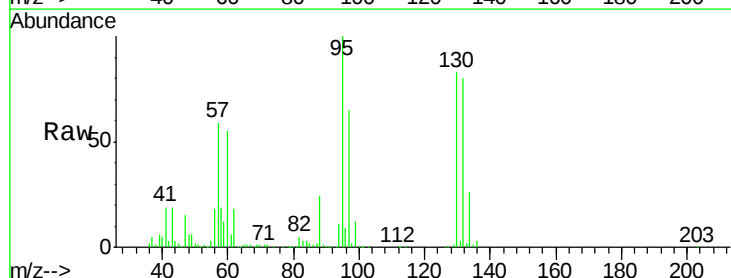
Manual Integrations
 APPROVED

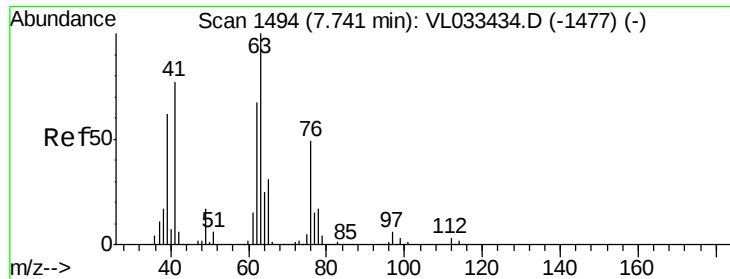
MMDadoda
 4/1/2019 1:23:18 AM



#38
 Trichloroethene
 Concen: 10.648 ppbv
 RT: 7.96 min Scan# 1563
 Delta R.T. -0.00 min
 Lab File: VL033462.D
 Acq: 26 Mar 2019 8:04

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	554583		
95	120.9	89.8	134.8	
132	97.3	76.6	115.0	
97	79.2	58.6	88.0	





#39

1,2-Dichloropropane

Concen: 9.666 ppbv

RT: 7.73 min Scan# 1492

Delta R.T. -0.01 min

Lab File: VL033462.D

Acq: 26 Mar 2019 8:04

Instrument :

MSVOA_L

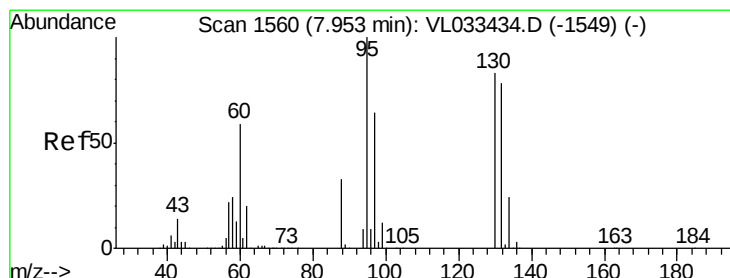
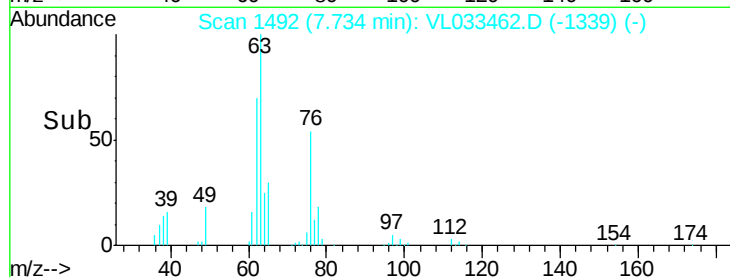
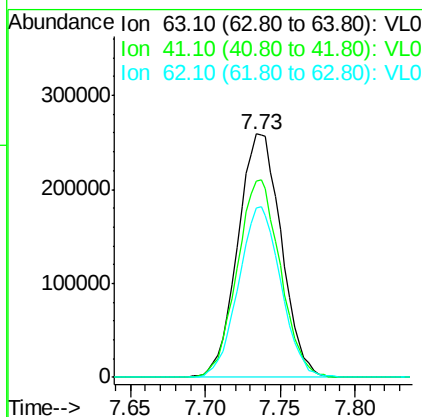
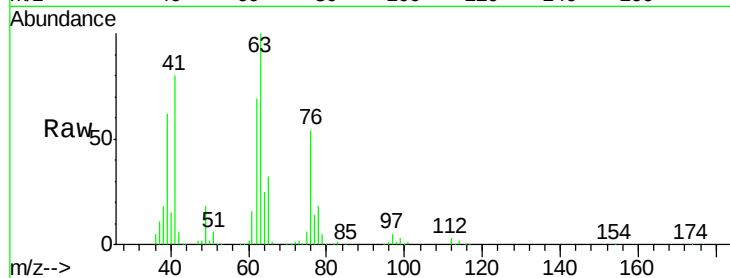
ClientSampleId :

VSTDCCC010EC

Tot Ion:	63	Resp:	524010
Ion	Ratio	Lower	Upper
63	100		
41	80.4	61.2	91.8
62	69.2	54.0	81.0

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:23:18 AM



#40

1,4-Dioxane

Concen: 10.844 ppbv

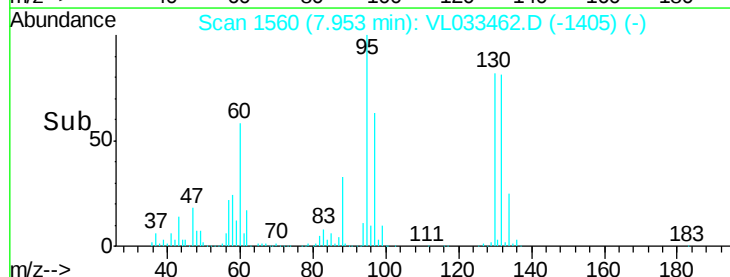
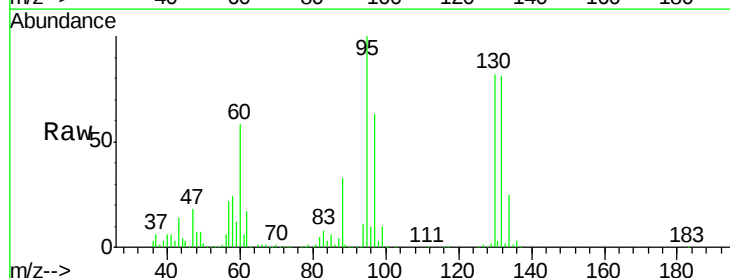
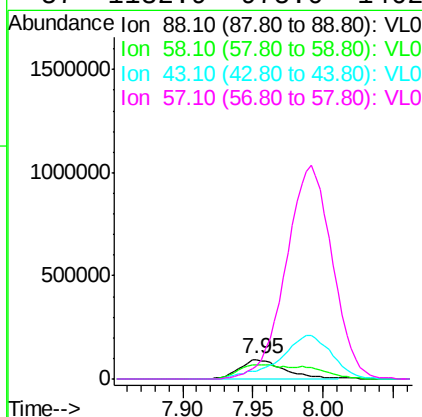
RT: 7.95 min Scan# 1560

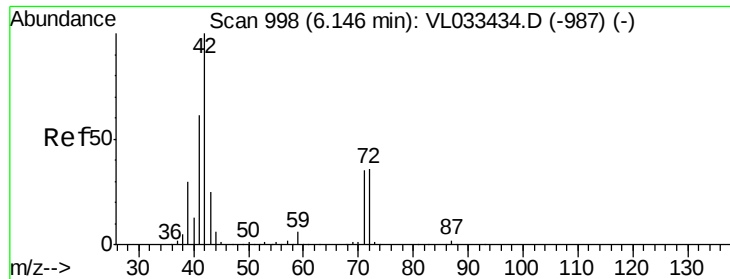
Delta R.T. -0.00 min

Lab File: VL033462.D

Acq: 26 Mar 2019 8:04

Tgt Ion:	88	Resp:	209677
Ion	Ratio	Lower	Upper
88	100		
58	127.6	105.6	158.4
43	260.2	216.7	325.1
57	1132.9	975.0	1462.4





#41

Tetrahydrofuran

Concen: 10.332 ppbv

RT: 6.15 min Scan# 998

Delta R.T. -0.00 min

Lab File: VL033462.D

Acq: 26 Mar 2019 8:04

Instrument :

MSVOA_L

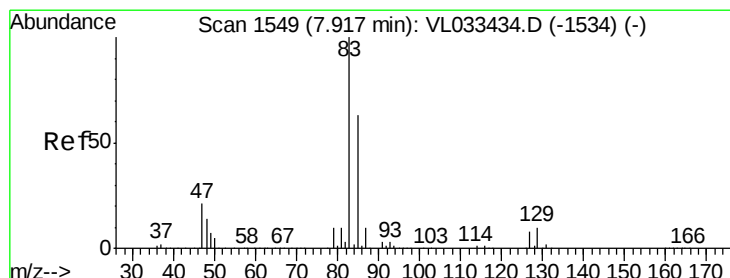
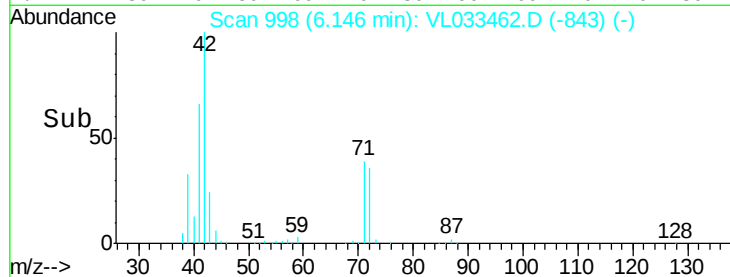
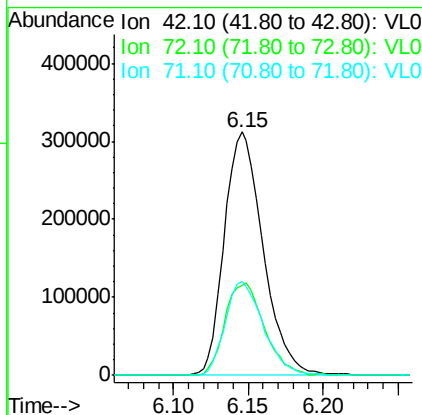
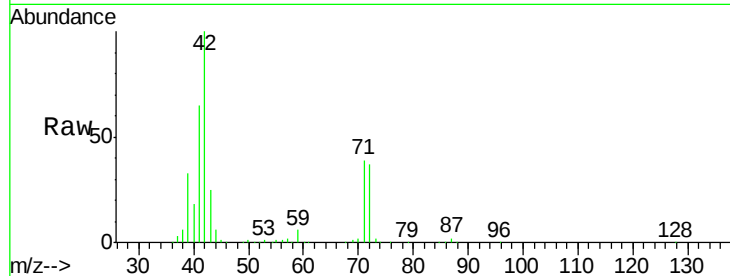
ClientSampleId :

VSTDCCC010EC

Tot Ion:	42	Resp:	563157
Ion Ratio		Lower	Upper
42	100		
72	38.9	30.2	45.2
71	38.1	29.4	44.2

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:23:18 AM



#42

Bromodichloromethane

Concen: 9.977 ppbv

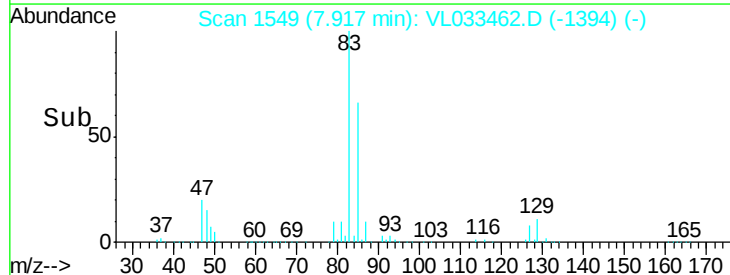
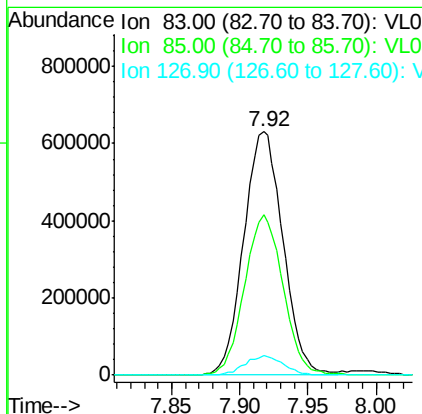
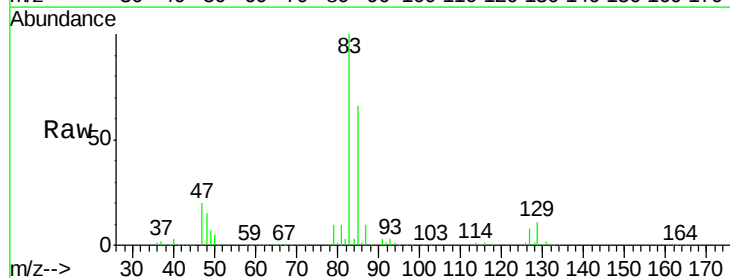
RT: 7.92 min Scan# 1549

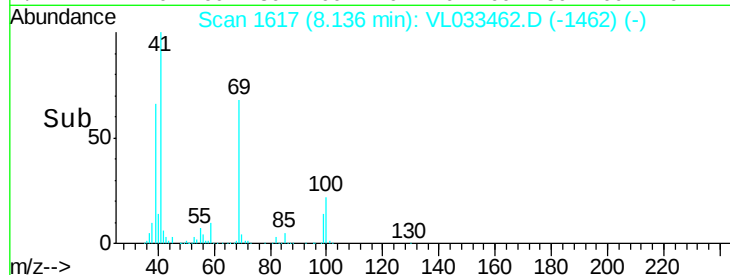
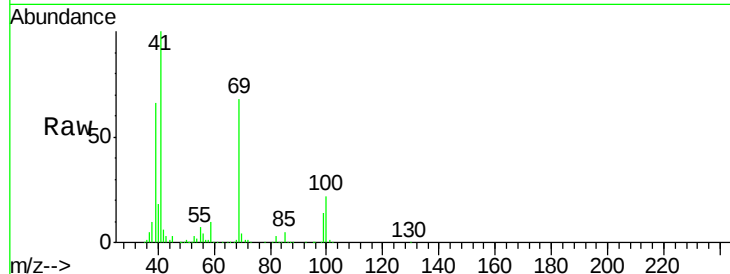
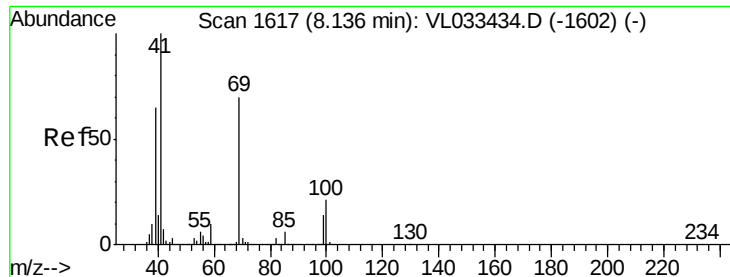
Delta R.T. -0.00 min

Lab File: VL033462.D

Acq: 26 Mar 2019 8:04

Tgt Ion:	83	Resp:	1260605
Ion Ratio		Lower	Upper
83	100		
85	66.1	50.7	76.1
127	7.8	6.6	9.8





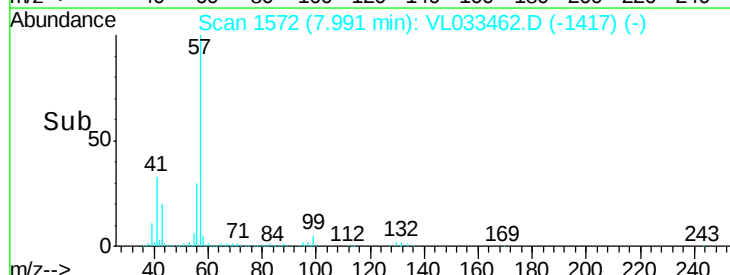
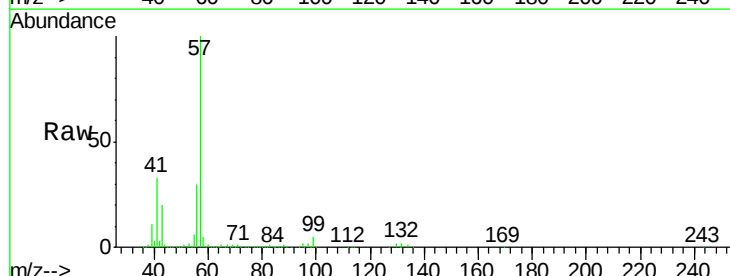
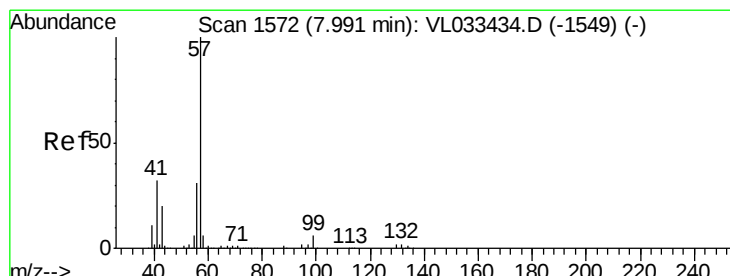
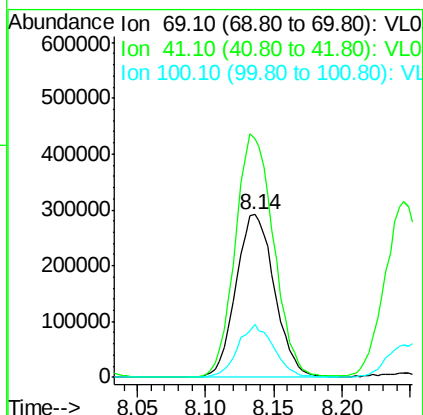
#43
Methvl Methacrilate
Concen: 10.204 ppbv
RT: 8.14 min Scan# 1617
Delta R.T. -0.00 min
Lab File: VL033462.D
Acq: 26 Mar 2019 8:04

Tot Ion	Ratio	Lower	Upper
69	100		
41	148.4	116.6	174.8
100	30.5	24.4	36.6

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

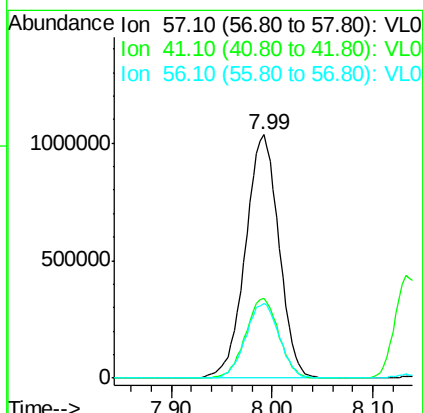
Manual Integrations
APPROVED

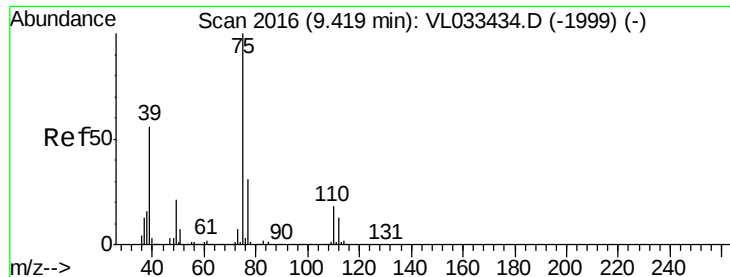
MMDadoda
4/1/2019 1:23:18 AM



#44
2,2,4-Trimethylpentane
Concen: 9.814 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. -0.00 min
Lab File: VL033462.D
Acq: 26 Mar 2019 8:04

Tgt Ion	Ratio	Lower	Upper
57	100		
41	32.6	26.0	39.0
56	30.6	24.6	37.0





#45

t-1,3-Dichloropropene

Concen: 17.400 ppbv

RT: 9.42 min Scan# 2015

Delta R.T. -0.00 min

Lab File: VL033462.D

Acq: 26 Mar 2019 8:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 75 Resp: 1200533

Ion Ratio Lower Upper

75 100

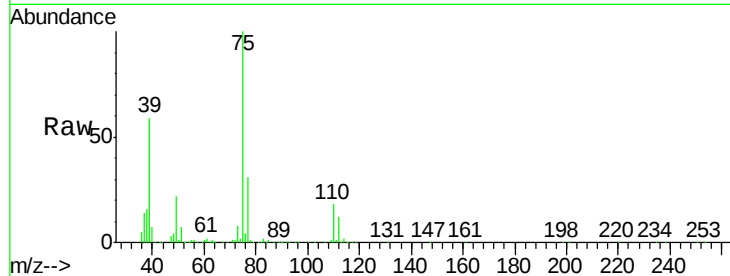
77 31.5 24.5 36.7

Manual Integrations

APPROVED

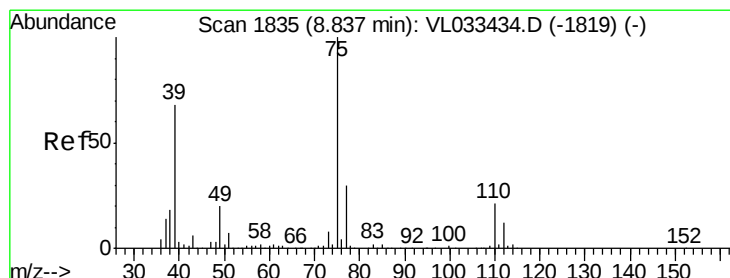
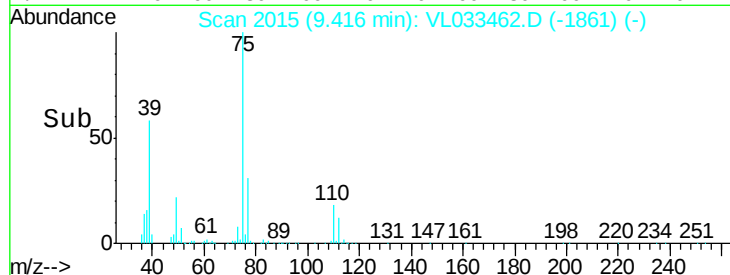
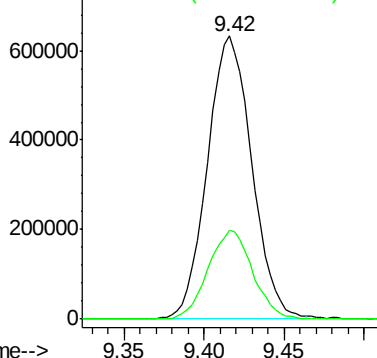
MMDadoda

4/1/2019 1:23:18 AM



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: 10.857 ppbv

RT: 8.84 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VL033462.D

Acq: 26 Mar 2019 8:04

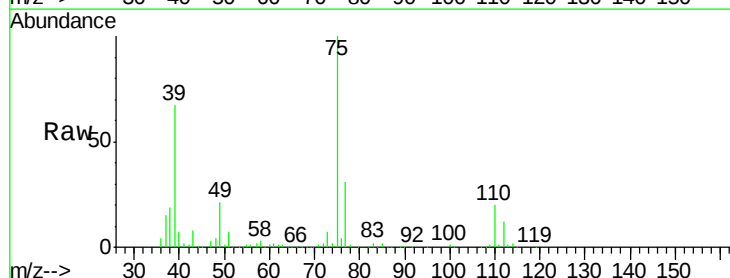
Tgt Ion: 75 Resp: 874775

Ion Ratio Lower Upper

75 100

39 66.9 54.1 81.1

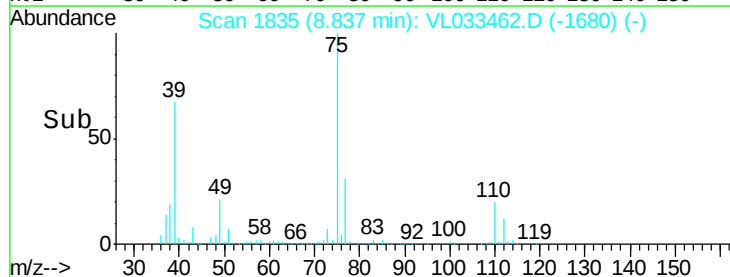
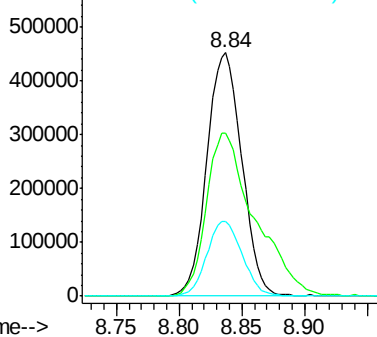
77 30.6 23.9 35.9

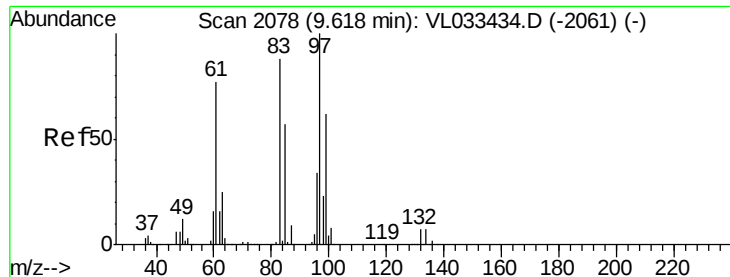


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





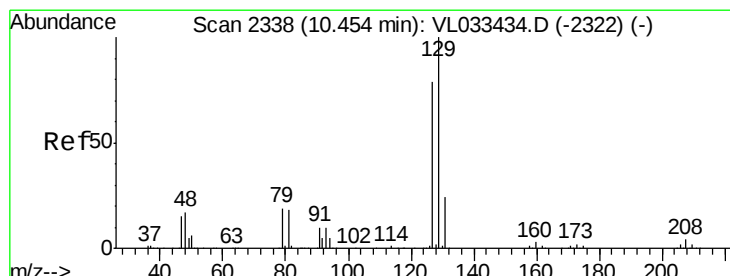
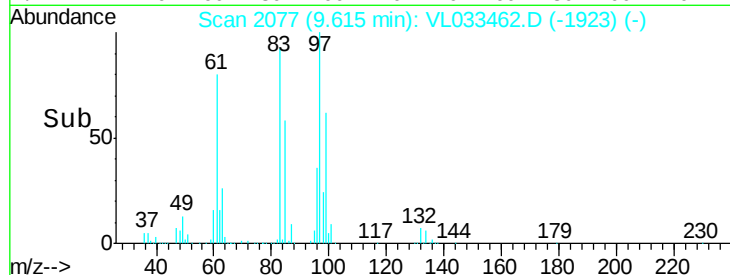
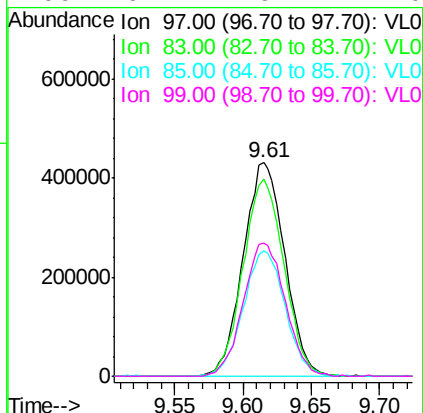
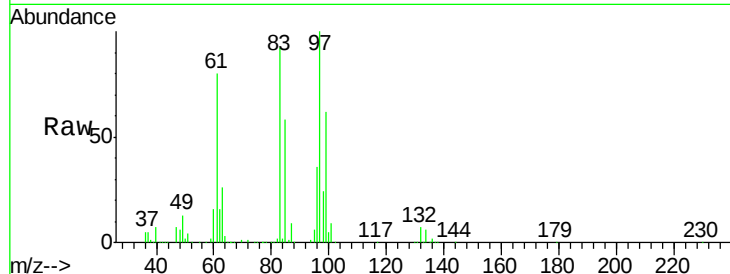
#47
 1,1,2-Trichloroethane
 Concen: 14.806 ppbv
 RT: 9.61 min Scan# 2077
 Delta R.T. -0.00 min
 Lab File: VL033462.D
 Acq: 26 Mar 2019 8:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
97	100		
83	92.3	70.5	105.7
85	58.4	45.6	68.4
99	62.2	49.4	74.0

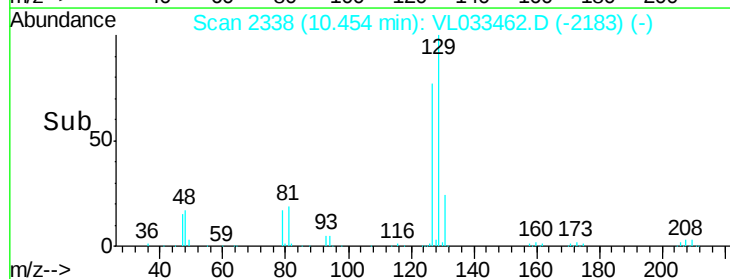
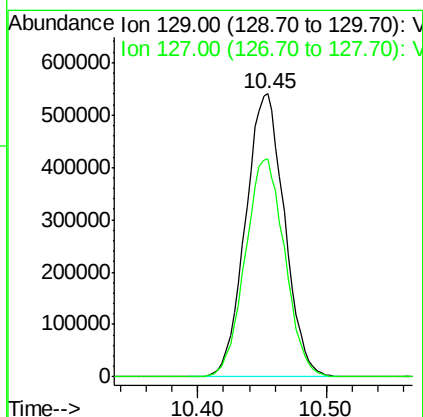
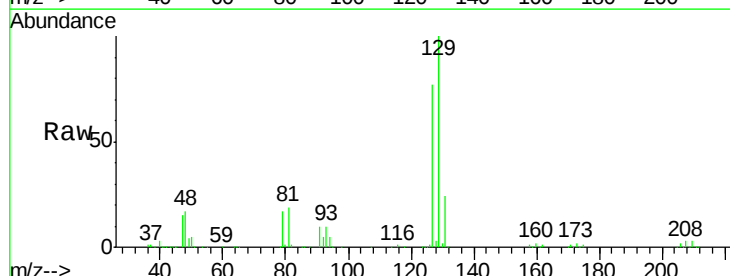
Manual Integrations
 APPROVED

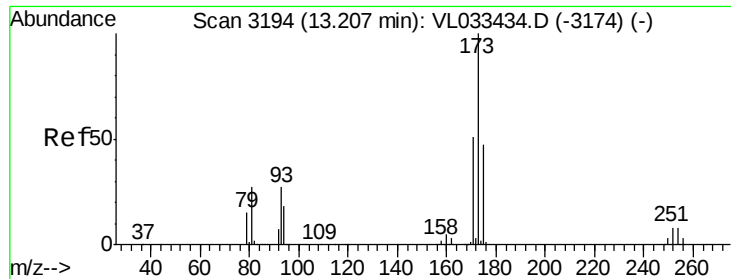
MMDadoda
 4/1/2019 1:23:18 AM



#48
 Dibromochloromethane
 Concen: 10.957 ppbv
 RT: 10.45 min Scan# 2338
 Delta R.T. -0.00 min
 Lab File: VL033462.D
 Acq: 26 Mar 2019 8:04

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.3	39.1	117.2





#49

Bromoform

Concen: 10.612 ppbv

RT: 13.20 min Scan# 3193

Delta R.T. -0.00 min

Lab File: VL033462.D

Acq: 26 Mar 2019 8:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:173 Resp: 1052678

Ion Ratio Lower Upper

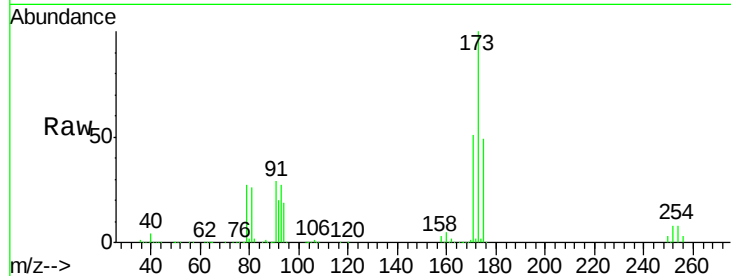
173 100

175 48.9 39.3 58.9

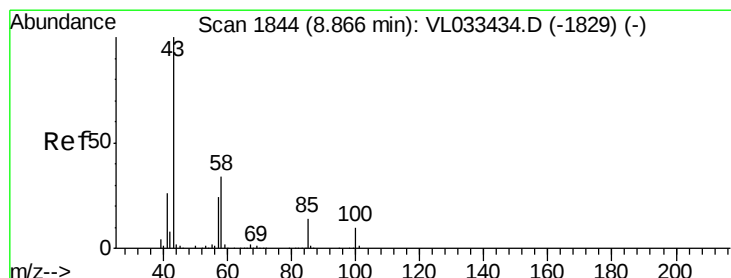
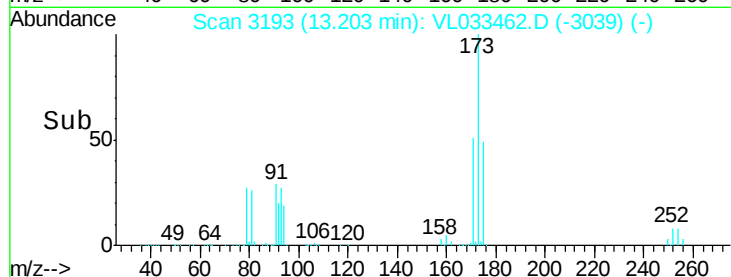
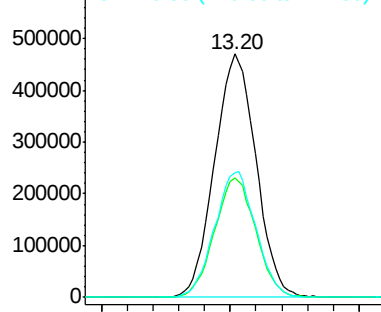
171 51.4 41.2 61.8

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:23:18 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: 10.120 ppbv

RT: 8.87 min Scan# 1845

Delta R.T. 0.00 min

Lab File: VL033462.D

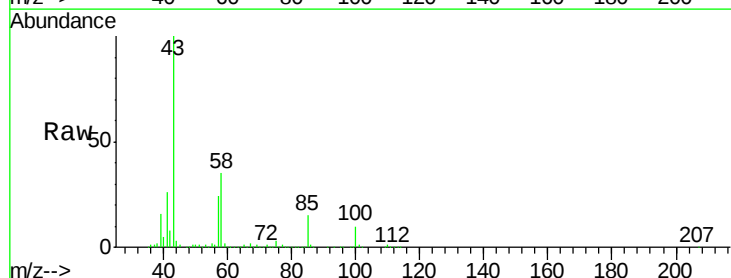
Acq: 26 Mar 2019 8:04

Tgt Ion: 43 Resp: 1468420

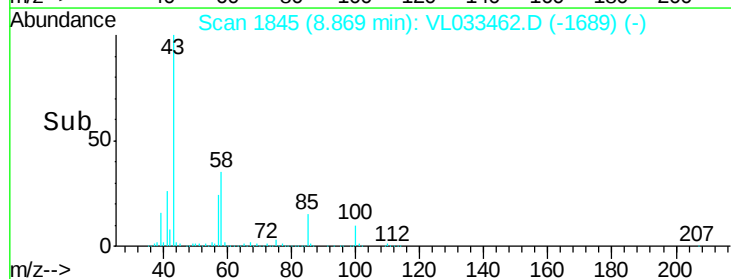
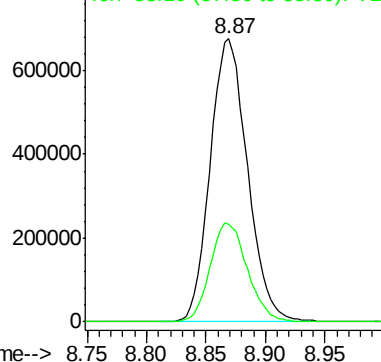
Ion Ratio Lower Upper

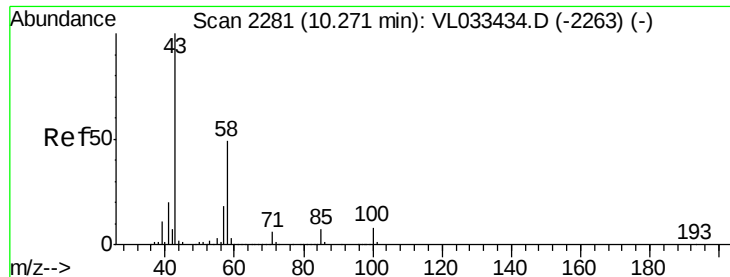
43 100

58 35.0 28.0 42.0



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





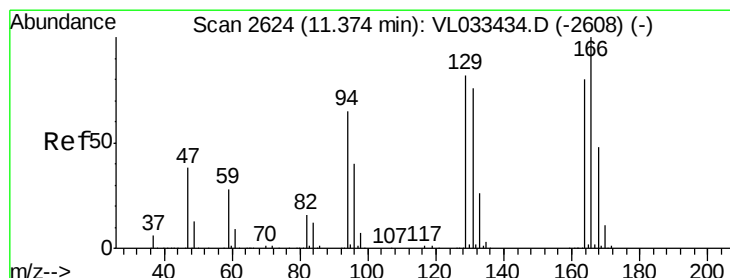
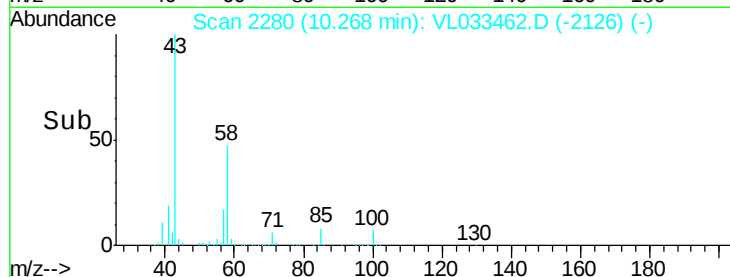
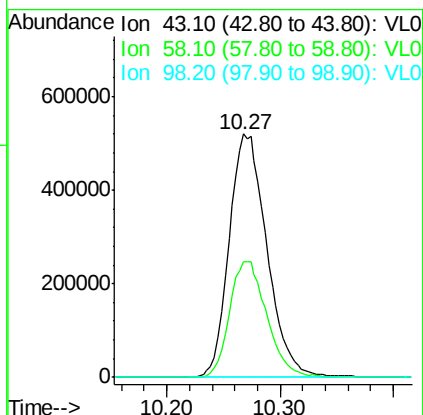
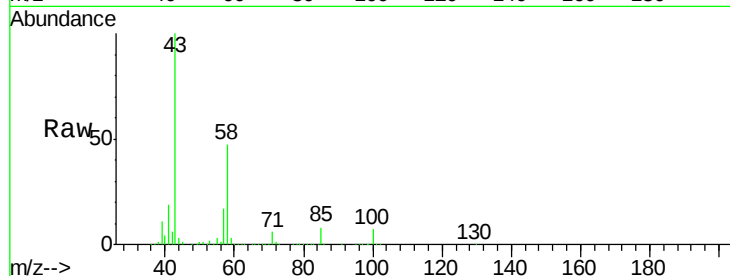
#51
2-Hexanone
Concen: 11.135 ppbv
RT: 10.27 min Scan# 2280
Delta R.T. -0.00 min
Lab File: VL033462.D
Acq: 26 Mar 2019 8:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 1205255
Ion Ratio Lower Upper
43 100
58 47.4 38.2 57.2
98 0.2 0.2 0.2#

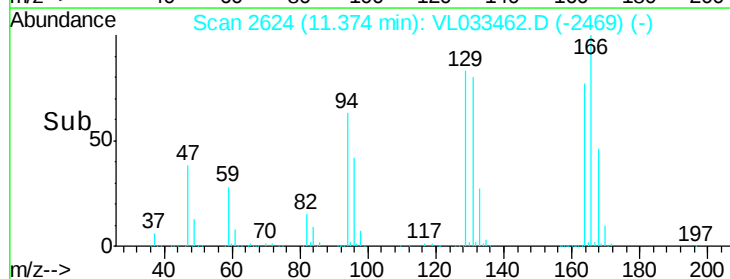
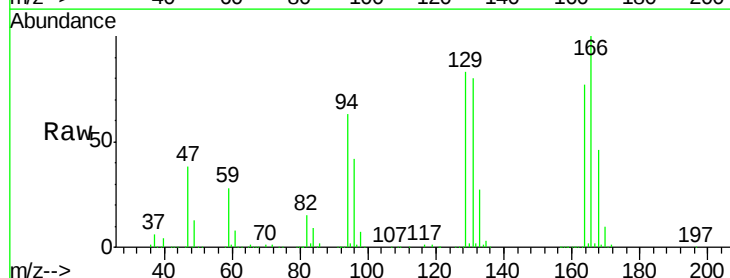
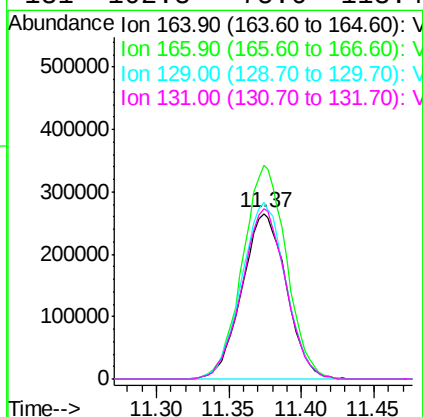
Manual Integrations
APPROVED

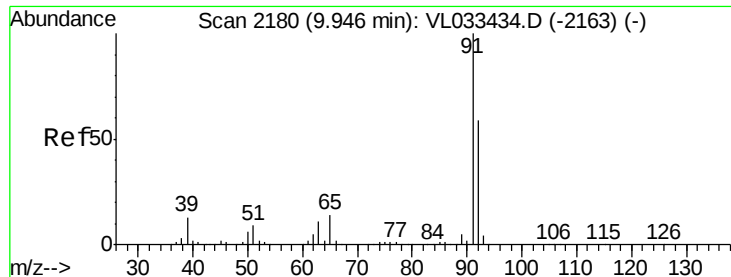
MMDadoda
4/1/2019 1:23:18 AM



#52
Tetrachloroethene
Concen: 10.816 ppbv
RT: 11.37 min Scan# 2624
Delta R.T. -0.00 min
Lab File: VL033462.D
Acq: 26 Mar 2019 8:04

Tgt Ion: 164 Resp: 564784
Ion Ratio Lower Upper
164 100
166 128.9 99.5 149.3
129 106.9 81.4 122.2
131 102.8 75.6 113.4





#53

Toluene

Concen: 10.874 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.00 min

Lab File: VL033462.D

Acq: 26 Mar 2019 8:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 1748826

Ion Ratio Lower Upper

91 100

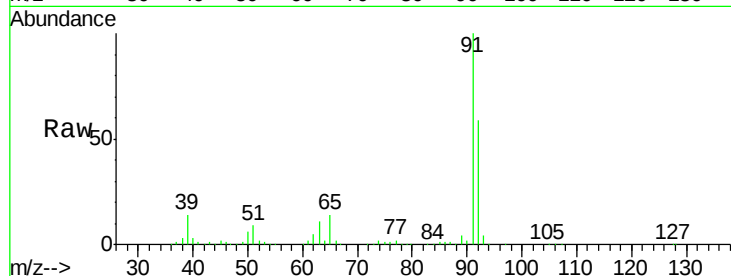
92 59.1 47.4 71.0

Manual Integrations

APPROVED

MMDadoda

4/1/2019 1:23:18 AM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

1000000

800000

600000

400000

200000

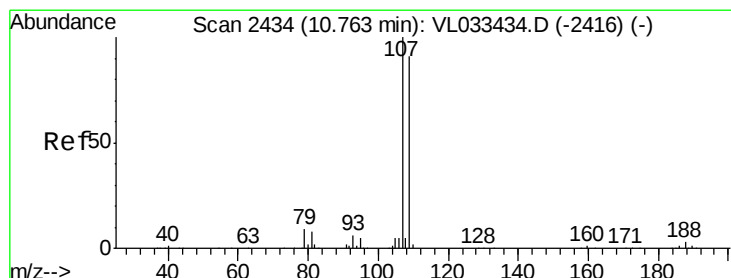
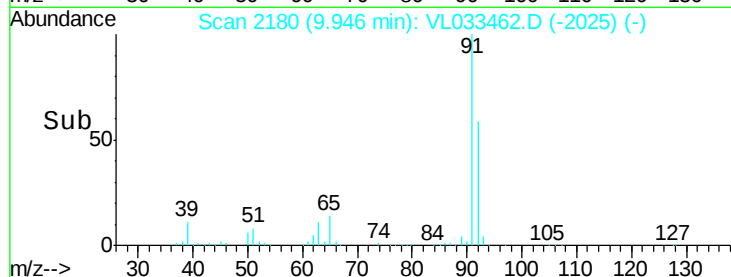
0

9.90

9.95

10.00

Time-->



#54

1,2-Dibromoethane

Concen: 10.296 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. -0.00 min

Lab File: VL033462.D

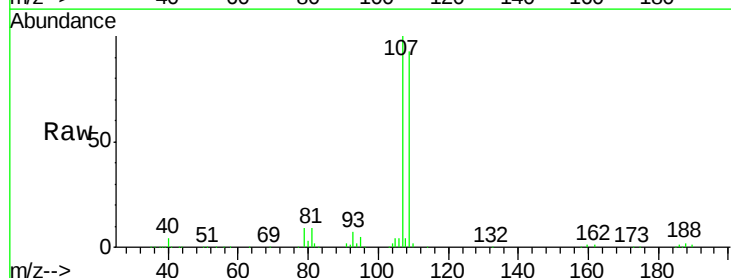
Acq: 26 Mar 2019 8:04

Tgt Ion: 107 Resp: 991372

Ion Ratio Lower Upper

107 100

109 92.6 72.7 109.1



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

500000

400000

300000

200000

100000

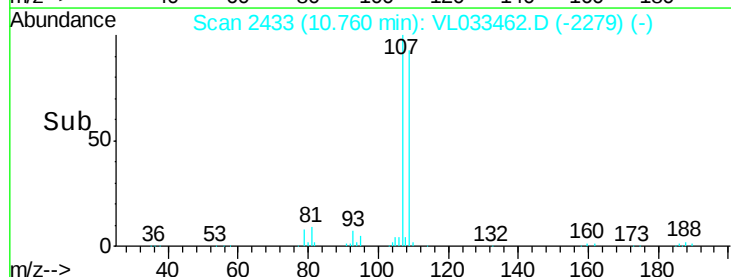
0

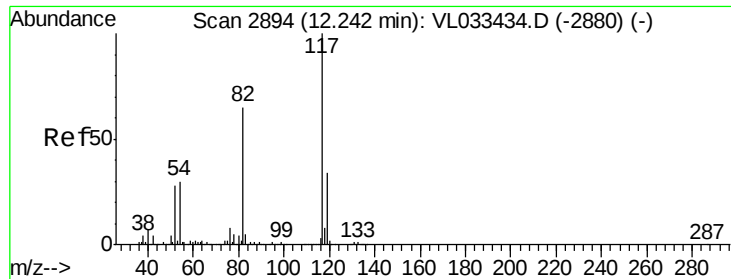
10.70

10.76

10.80

Time-->





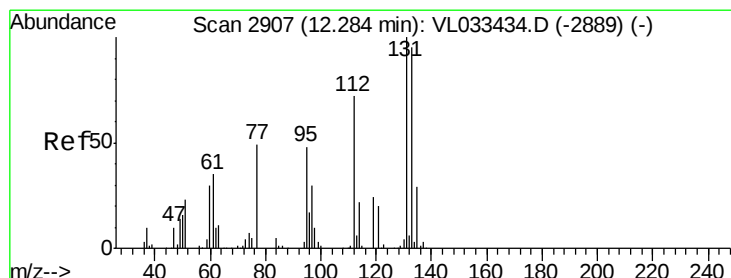
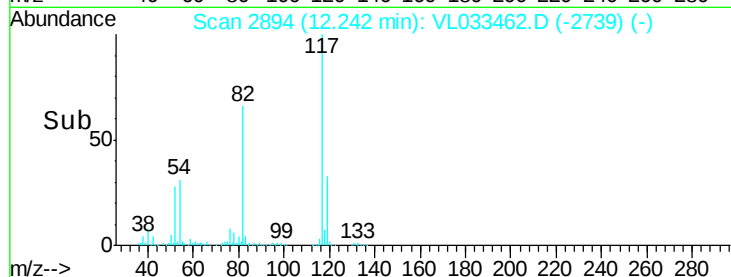
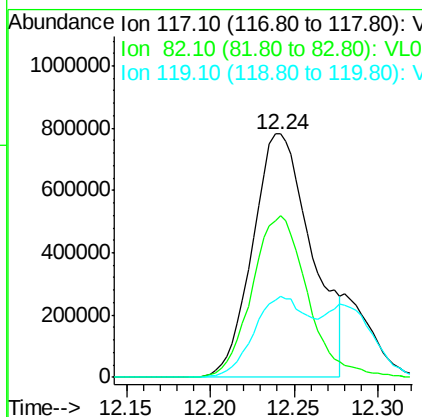
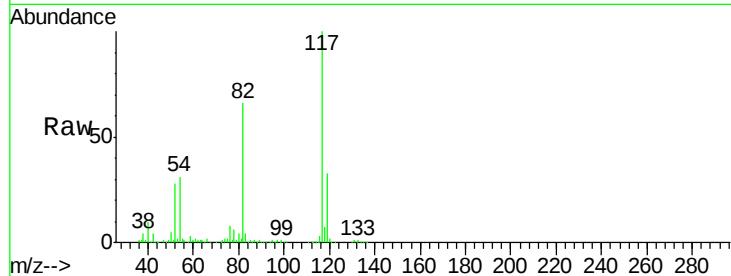
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.24 min Scan# 2894
Delta R.T. -0.00 min
Lab File: VL033462.D
Acq: 26 Mar 2019 8:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	62.7	51.5	77.3
119	29.5	25.5	38.3

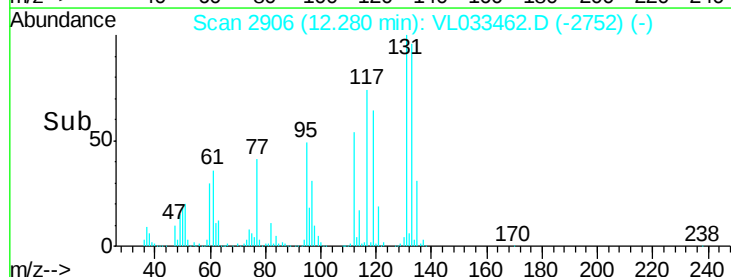
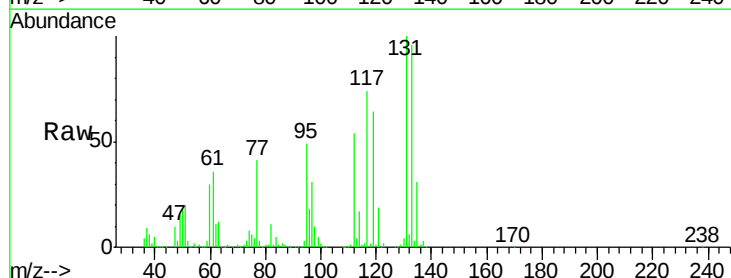
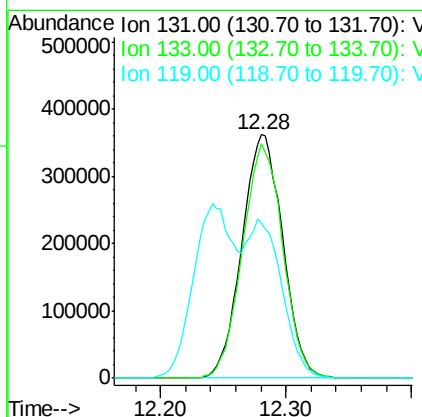
Manual Integrations
APPROVED

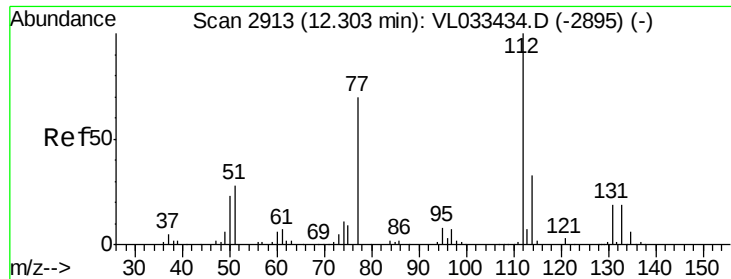
MMDadoda
4/1/2019 1:23:18 AM



#56
1,1,1,2-Tetrachloroethane
Concen: 9.340 ppbv
RT: 12.28 min Scan# 2906
Delta R.T. -0.00 min
Lab File: VL033462.D
Acq: 26 Mar 2019 8:04

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.2	76.2	114.4
119	56.6	45.0	67.6





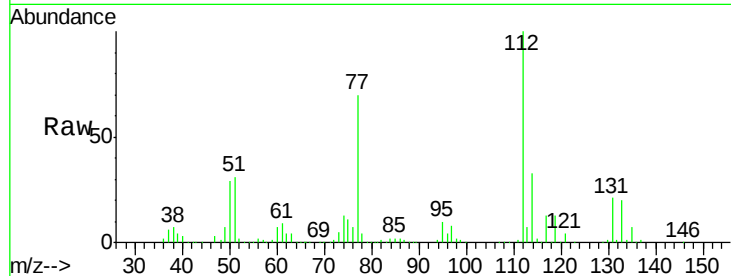
#57
Chlorobenzene
Concen: 9.300 ppbv
RT: 12.30 min Scan# 2913
Delta R.T. -0.00 min
Lab File: VL033462.D
Acq: 26 Mar 2019 8:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

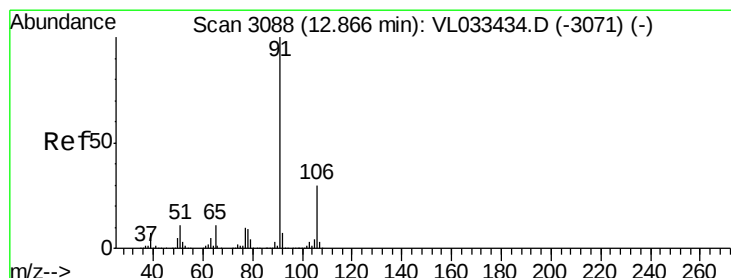
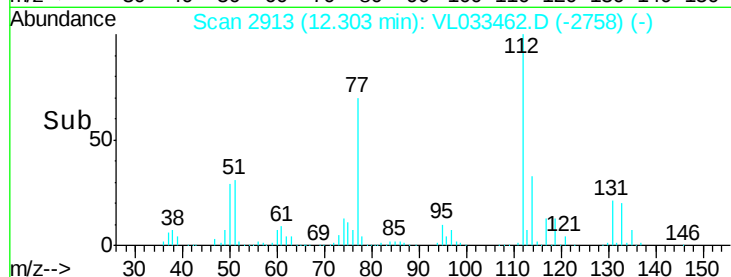
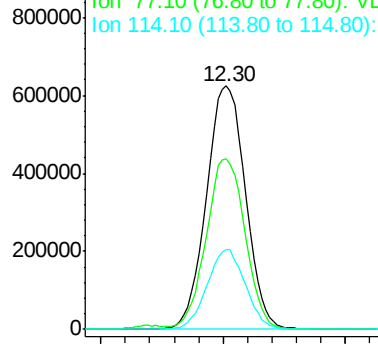
Tot Ion	Ratio	Lower	Upper
112	100		
77	69.7	57.3	85.9
114	32.9	29.8	36.4

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:23:18 AM

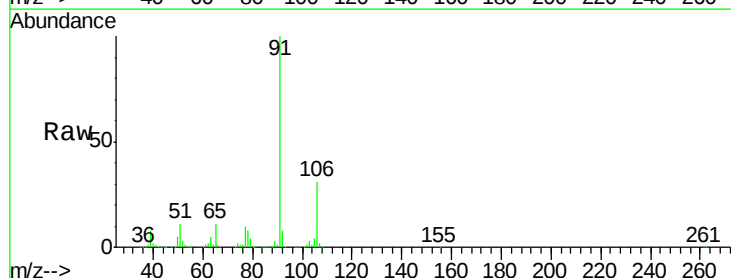


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

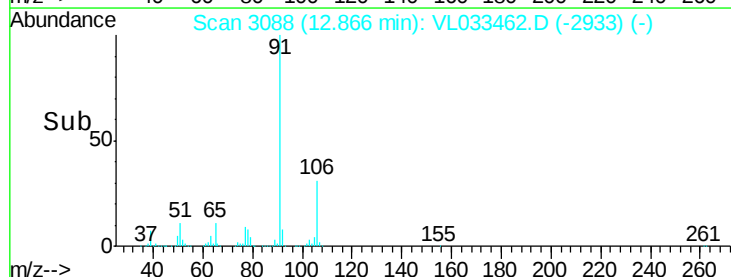
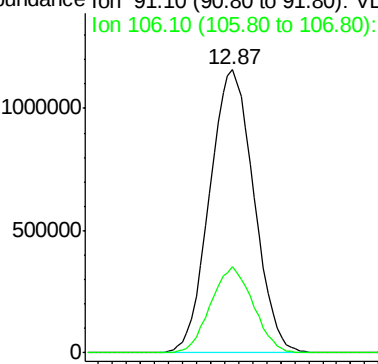


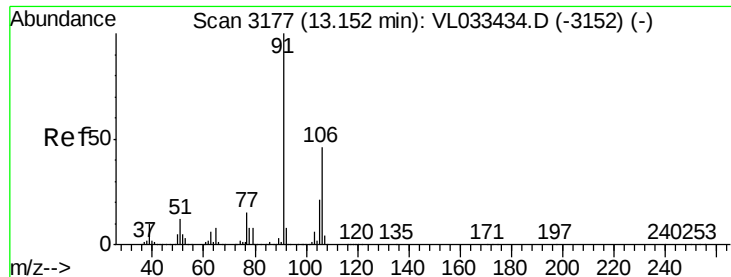
#58
Ethyl Benzene
Concen: 9.929 ppbv
RT: 12.87 min Scan# 3088
Delta R.T. -0.00 min
Lab File: VL033462.D
Acq: 26 Mar 2019 8:04

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.6	23.8	35.6



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





#59

m/p-Xylene

Concen: 18.831 ppbv m

RT: 13.12 min Scan# 3168

Delta R.T. -0.03 min

Lab File: VL033462.D

Acq: 26 Mar 2019 8:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 4297865

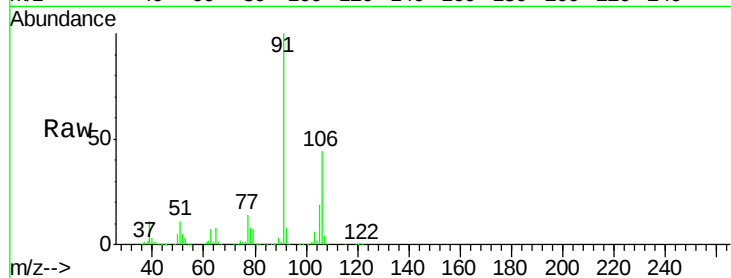
Ion Ratio Lower Upper

91 100

106 44.5 0.0 0.0#

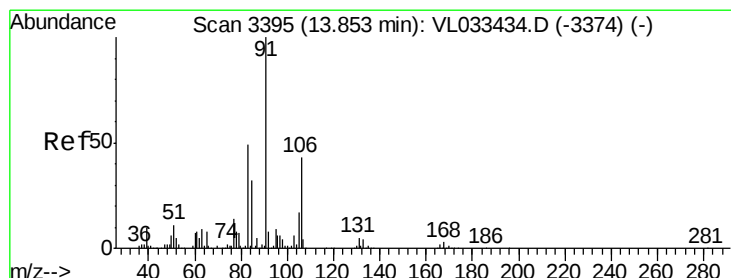
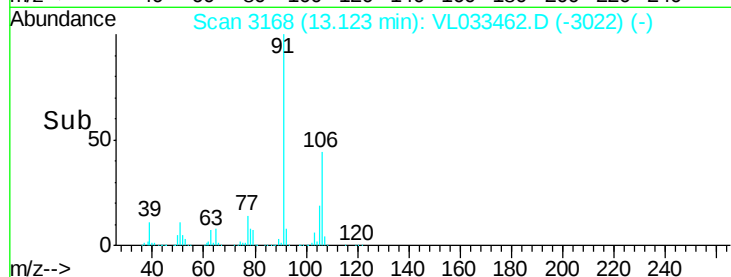
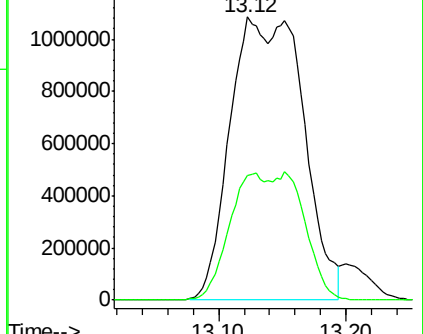
Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:23:18 AM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 9.654 ppbv

RT: 13.85 min Scan# 3395

Delta R.T. -0.00 min

Lab File: VL033462.D

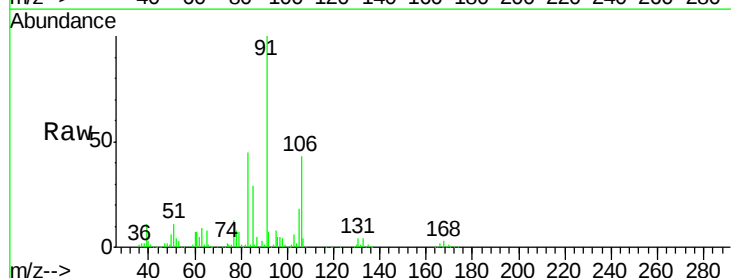
Acq: 26 Mar 2019 8:04

Tgt Ion: 91 Resp: 2130696

Ion Ratio Lower Upper

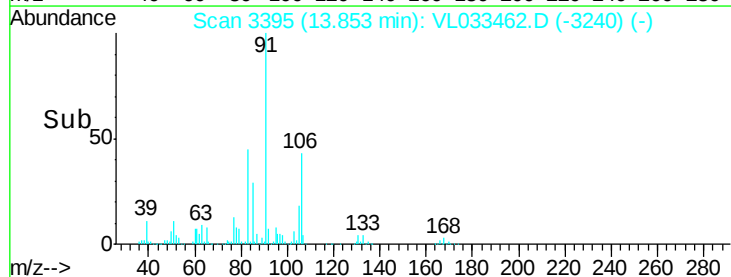
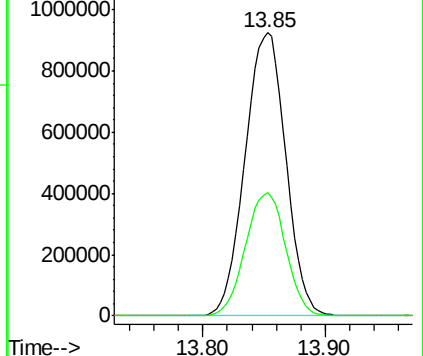
91 100

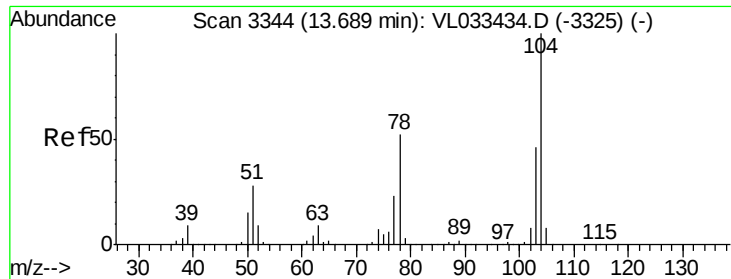
106 43.1 21.4 64.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





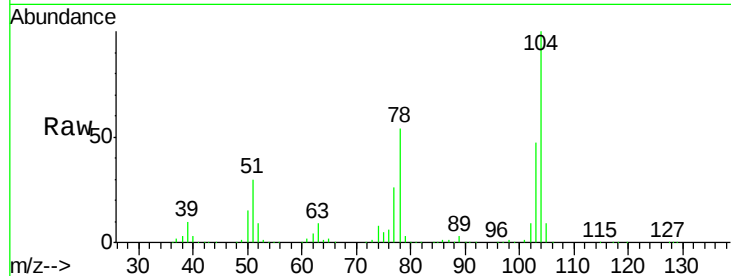
#61
Stvrene
Concen: 10.459 ppbv
RT: 13.69 min Scan# 3343
Delta R.T. -0.00 min
Lab File: VL033462.D
Acq: 26 Mar 2019 8:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

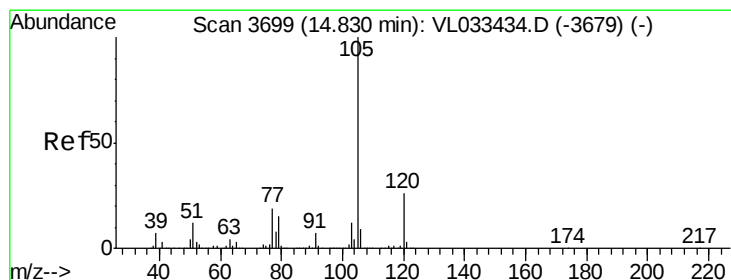
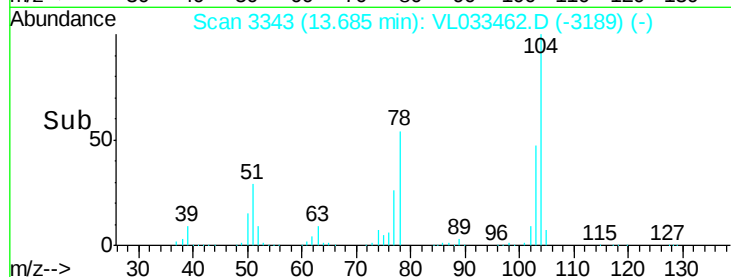
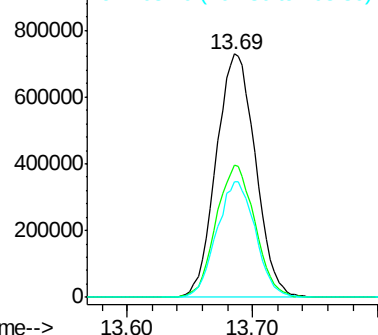
Tot Ion:104 Resp: 1584312
Ion Ratio Lower Upper
104 100
78 53.7 43.2 64.8
103 47.0 37.8 56.8

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:23:18 AM

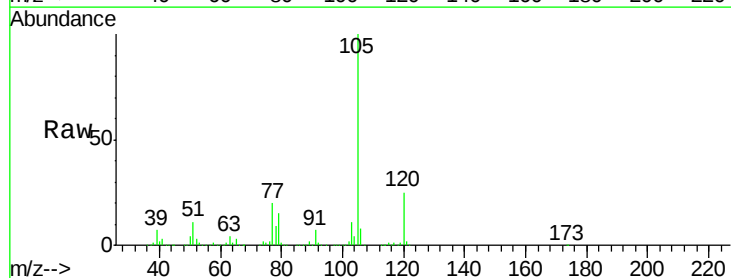


Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VL0
Ion 103.10 (102.80 to 103.80): V

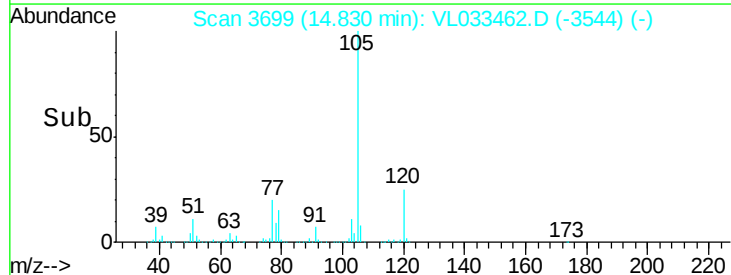
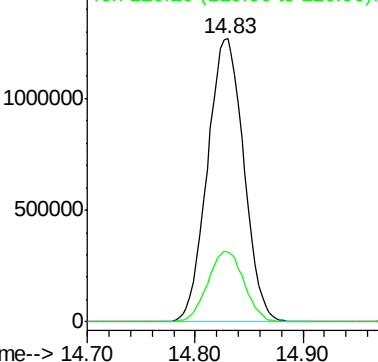


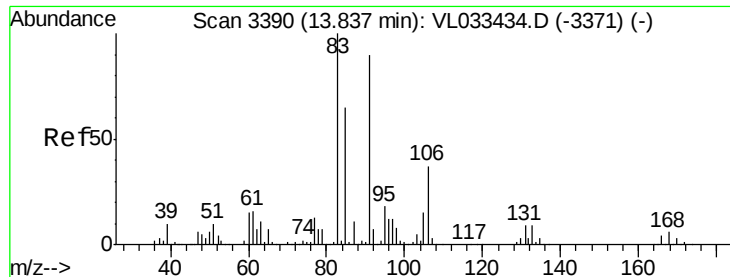
#62
Isopropylbenzene
Concen: 9.498 ppbv
RT: 14.83 min Scan# 3699
Delta R.T. -0.00 min
Lab File: VL033462.D
Acq: 26 Mar 2019 8:04

Tgt Ion:105 Resp: 2968651
Ion Ratio Lower Upper
105 100
120 25.0 20.2 30.2



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





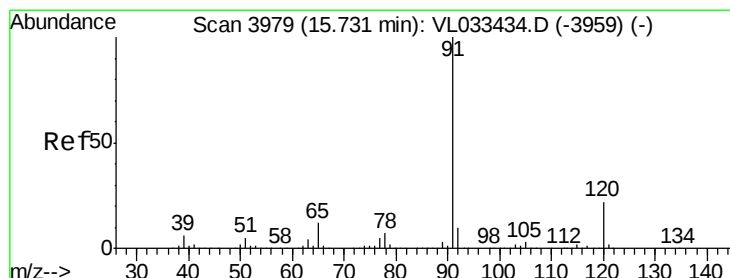
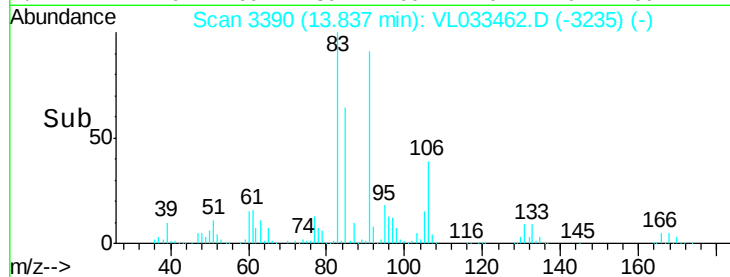
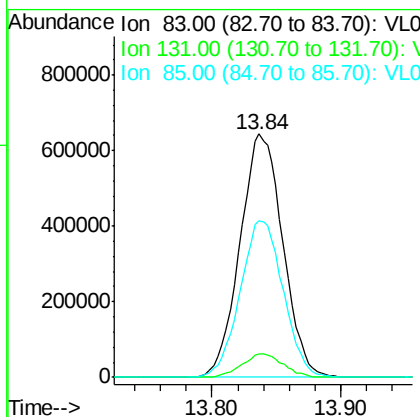
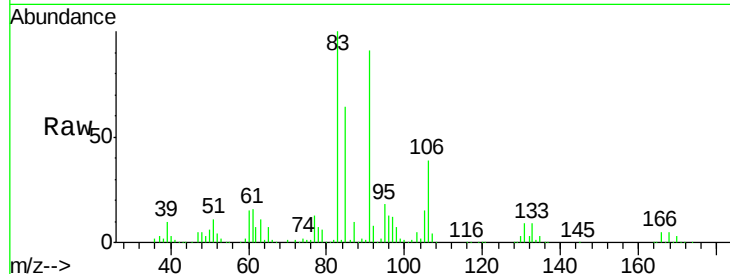
#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.149 ppbv
 RT: 13.84 min Scan# 3390
 Delta R.T. -0.00 min
 Lab File: VL033462.D
 Acq: 26 Mar 2019 8:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	83	Resp	1486751
Ion Ratio	100	Lower	Upper
83	100		
131	9.4	4.7	14.0
85	65.0	32.7	98.1

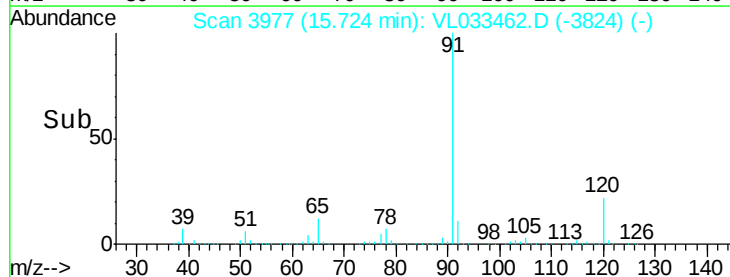
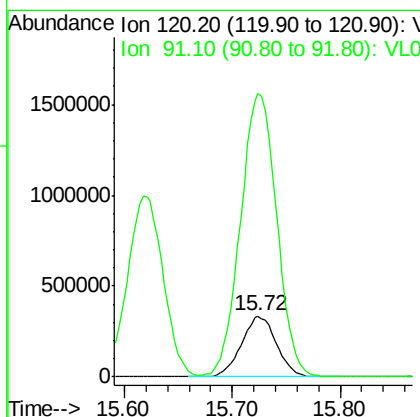
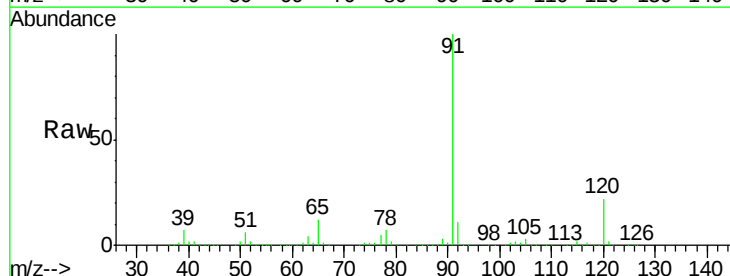
Manual Integrations
 APPROVED

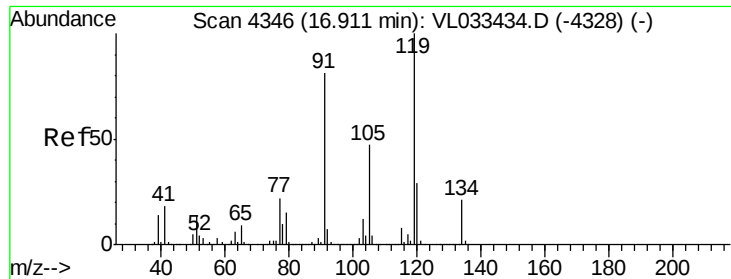
MMDadoda
 4/1/2019 1:23:18 AM



#64
 n-propylbenzene
 Concen: 9.496 ppbv
 RT: 15.72 min Scan# 3977
 Delta R.T. -0.01 min
 Lab File: VL033462.D
 Acq: 26 Mar 2019 8:04

Tgt Ion	120	Resp	753100
Ion Ratio	100	Lower	Upper
120	100		
91	485.6	387.4	581.2





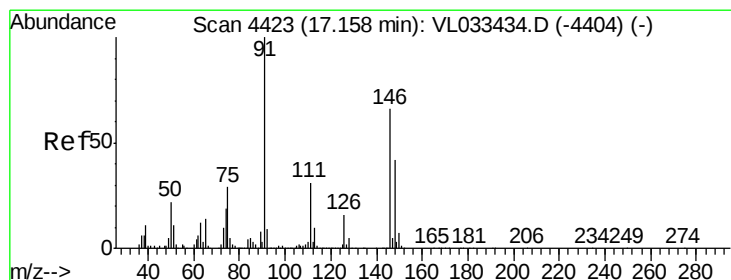
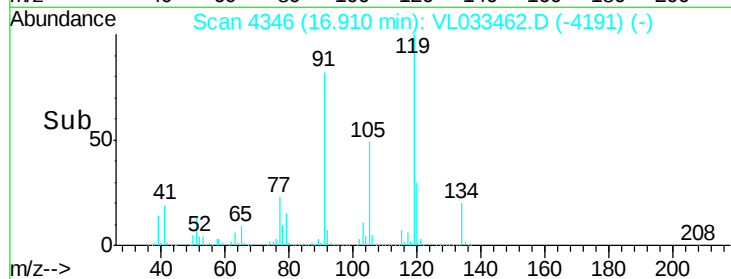
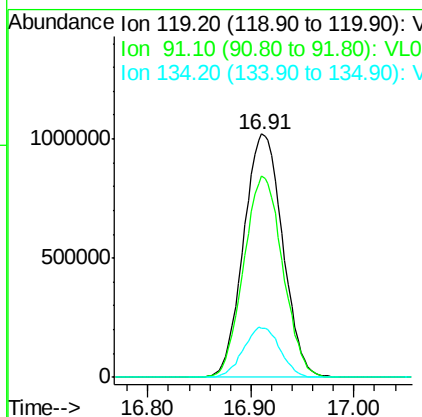
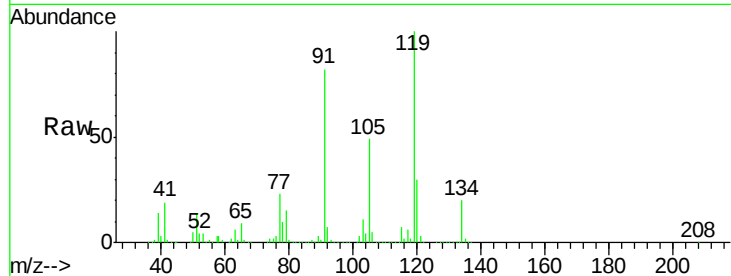
#65
 tert-Butylbenzene
 Concen: 9.726 ppbv
 RT: 16.91 min Scan# 4346
 Delta R.T. -0.00 min
 Lab File: VL033462.D
 Acq: 26 Mar 2019 8:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 119 Resp: 2678723
 Ion Ratio Lower Upper
 119 100
 91 82.9 66.4 99.6
 134 19.4 15.5 23.3

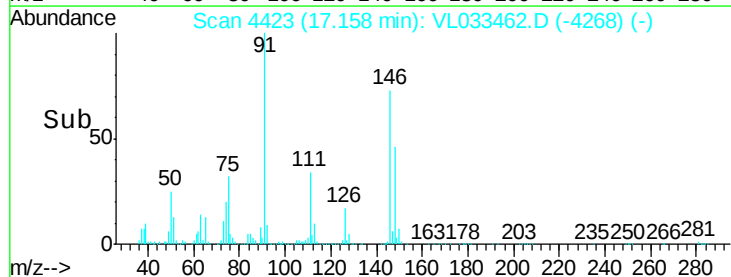
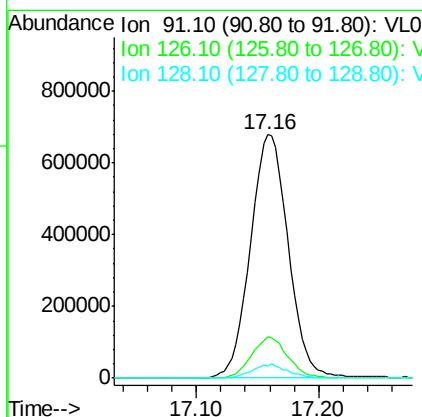
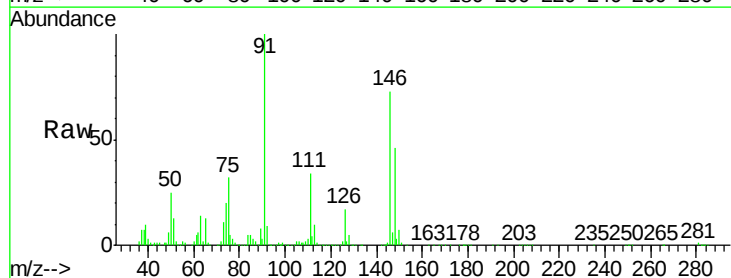
Manual Integrations
 APPROVED

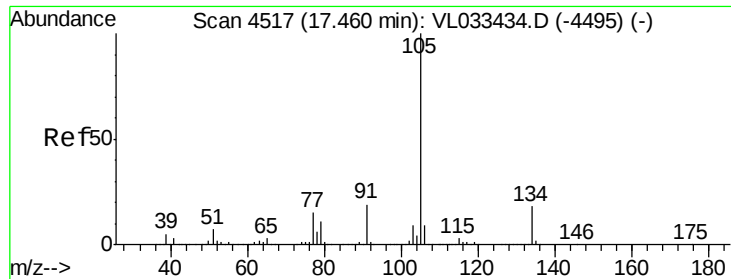
MMDadoda
 4/1/2019 1:23:18 AM



#66
 Benzyl Chloride
 Concen: 11.306 ppbv
 RT: 17.16 min Scan# 4423
 Delta R.T. -0.00 min
 Lab File: VL033462.D
 Acq: 26 Mar 2019 8:04

Tgt Ion: 91 Resp: 1447851
 Ion Ratio Lower Upper
 91 100
 126 16.4 13.0 19.6
 128 5.3 4.2 6.2





#67

sec-Butylbenzene

Concen: 9.702 ppbv

RT: 17.46 min Scan# 4517

Delta R.T. -0.00 min

Lab File: VL033462.D

Acq: 26 Mar 2019 8:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 3800186

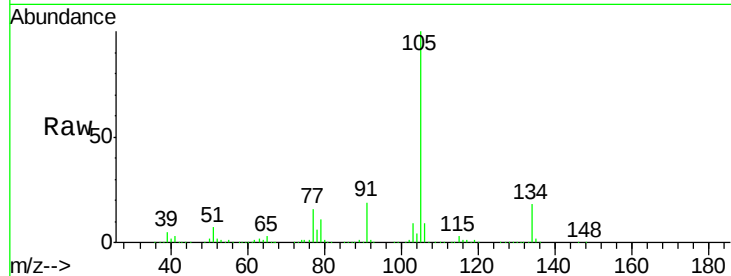
Ion Ratio Lower Upper

105 100

134 18.1 14.6 21.8

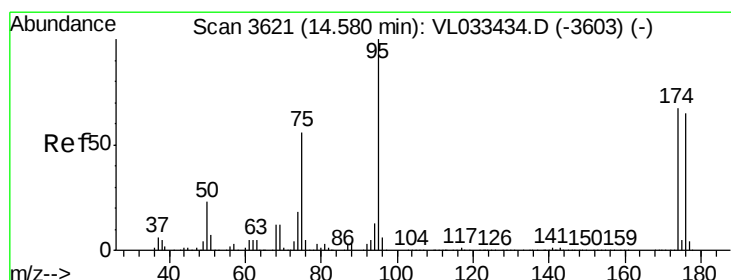
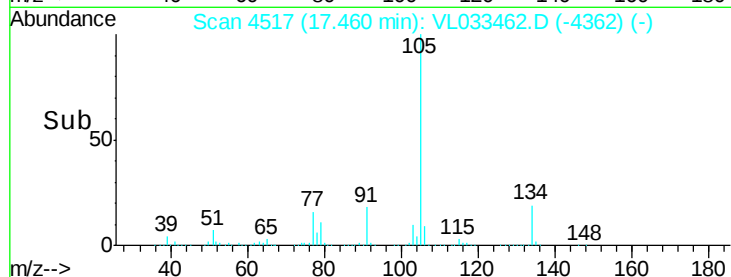
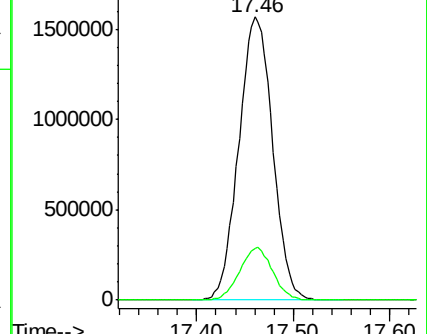
Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:23:18 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.399 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. -0.00 min

Lab File: VL033462.D

Acq: 26 Mar 2019 8:04

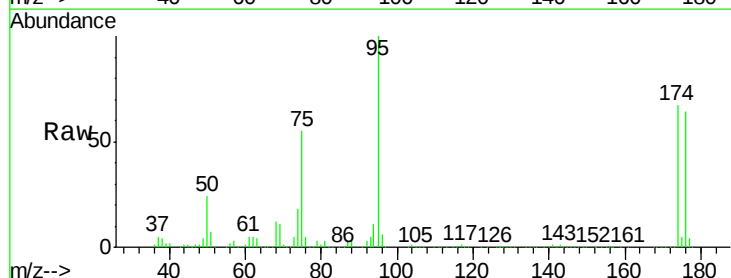
Tgt Ion: 95 Resp: 1409974

Ion Ratio Lower Upper

95 100

174 65.4 52.9 79.3

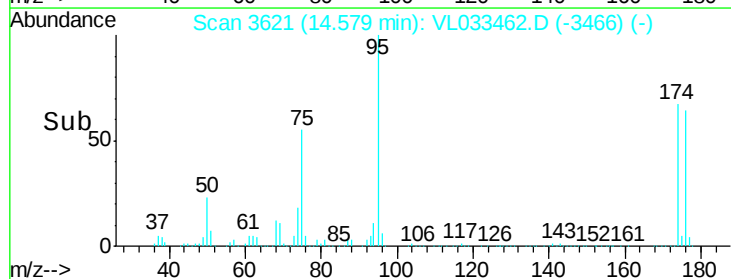
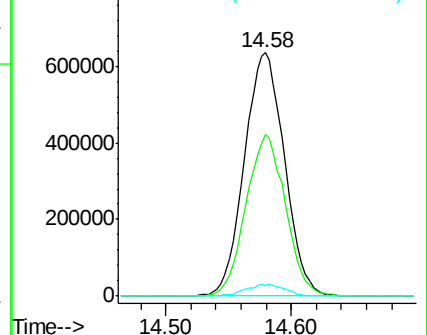
175 4.7 3.8 5.6

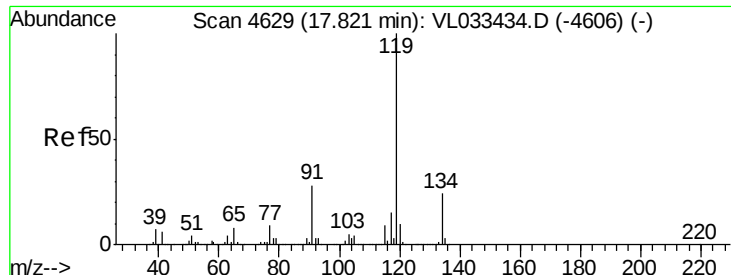


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





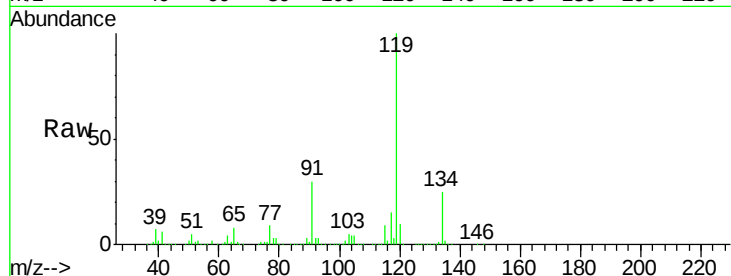
#69
 p-Isopropyltoluene
 Concen: 9.955 ppbv
 RT: 17.82 min Scan# 4628
 Delta R.T. -0.00 min
 Lab File: VL033462.D
 Acq: 26 Mar 2019 8:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

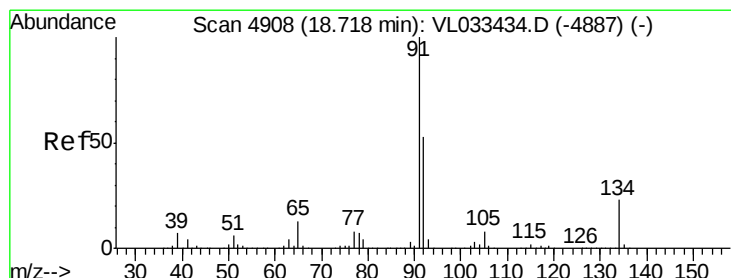
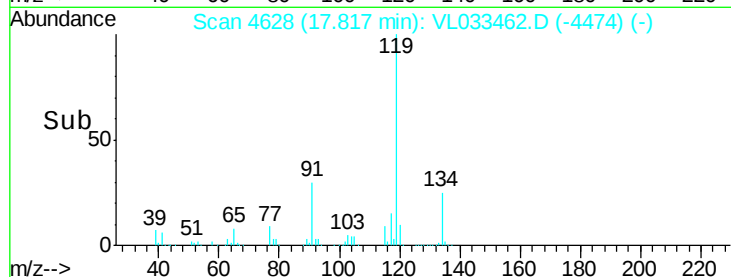
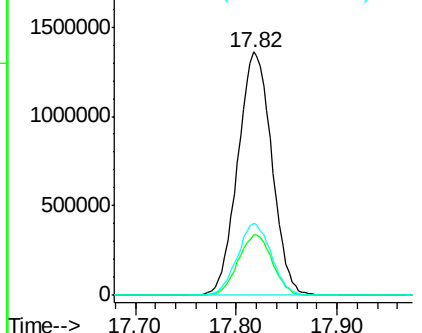
Tot Ion	Ratio	Lower	Upper
119	100		
134	25.0	19.9	29.9
91	29.6	23.4	35.0

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:23:18 AM

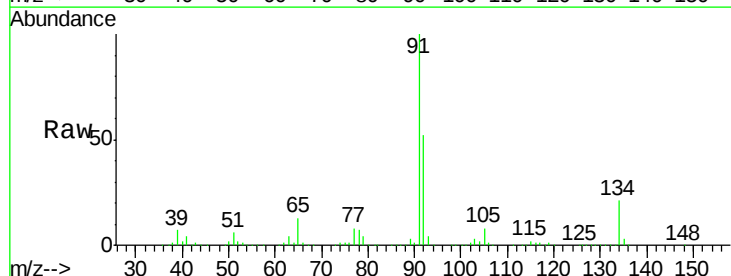


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

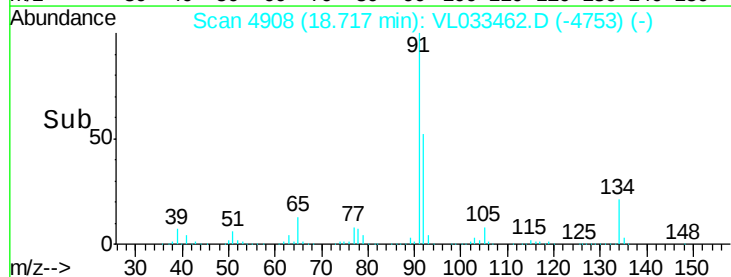
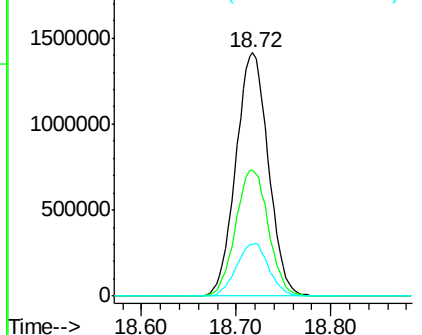


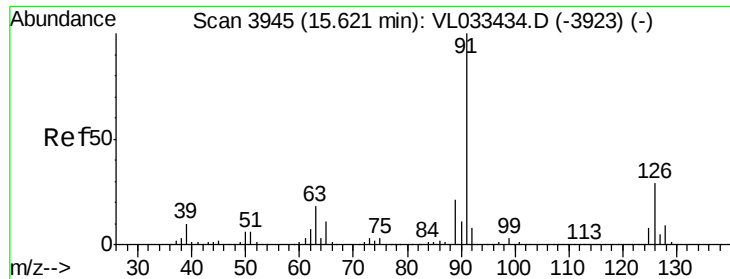
#70
 n-Butylbenzene
 Concen: 9.964 ppbv
 RT: 18.72 min Scan# 4908
 Delta R.T. -0.00 min
 Lab File: VL033462.D
 Acq: 26 Mar 2019 8:04

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.6	42.6	64.0
134	21.7	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: 9.625 ppbv

RT: 15.62 min Scan# 3944

Delta R.T. -0.00 min

Lab File: VL033462.D

Acq: 26 Mar 2019 8:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2287376

Ion Ratio Lower Upper

91 100

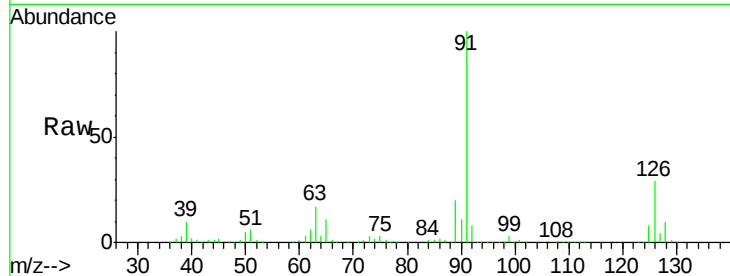
126 29.3 11.7 46.9

Manual Integrations

APPROVED

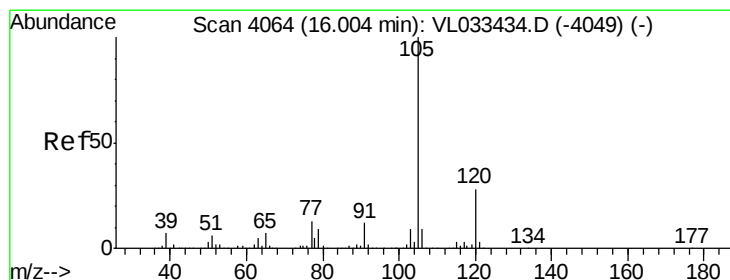
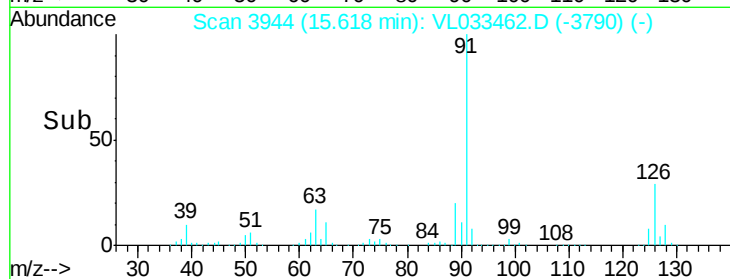
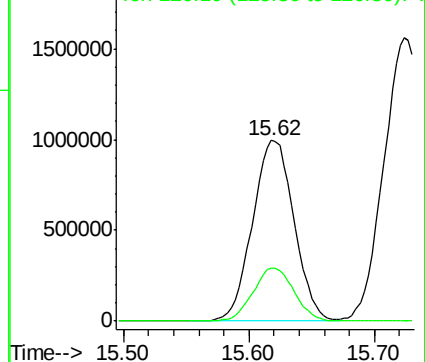
MMDadoda

4/1/2019 1:23:18 AM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 9.924 ppbv

RT: 16.00 min Scan# 4064

Delta R.T. -0.00 min

Lab File: VL033462.D

Acq: 26 Mar 2019 8:04

Tgt Ion: 105 Resp: 2461926

Ion Ratio Lower Upper

105 100

120 28.5 23.2 34.8

91 13.7 10.4 15.6

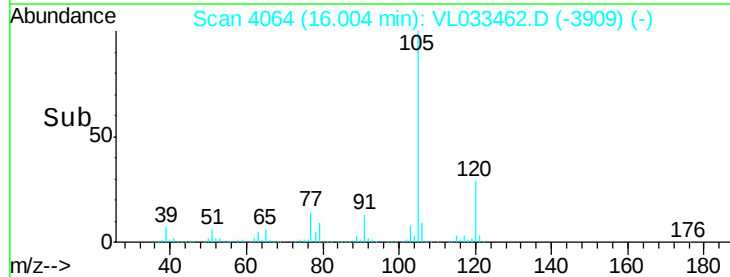
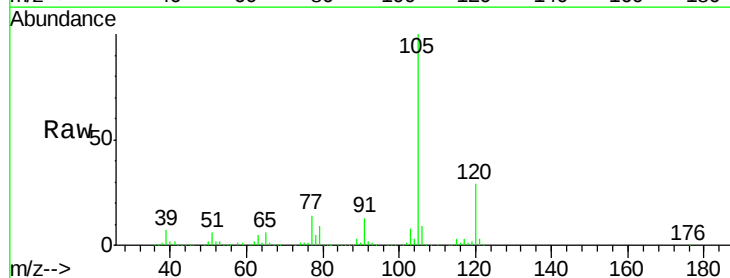
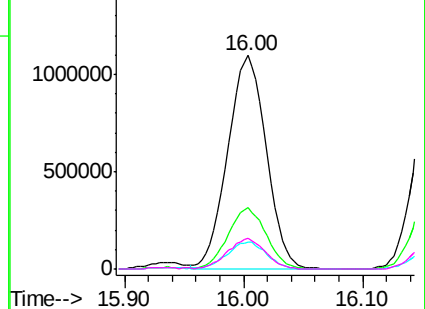
77 14.0 11.3 16.9

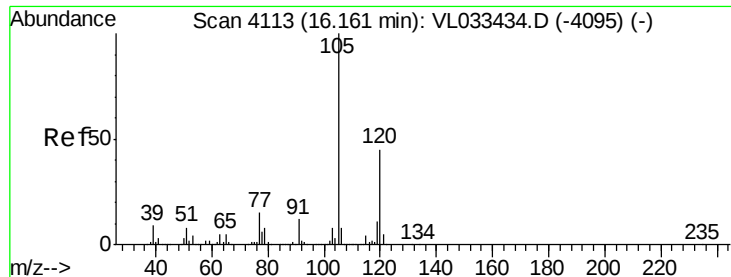
Abundance Ion 105.10 (104.80 to 105.80): V

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





#73

1,3,5-Trimethylbenzene

Concen: 9.989 ppbv

RT: 16.16 min Scan# 4113

Delta R.T. -0.00 min

Lab File: VL033462.D

Acq: 26 Mar 2019 8:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 2371512

Ion Ratio Lower Upper

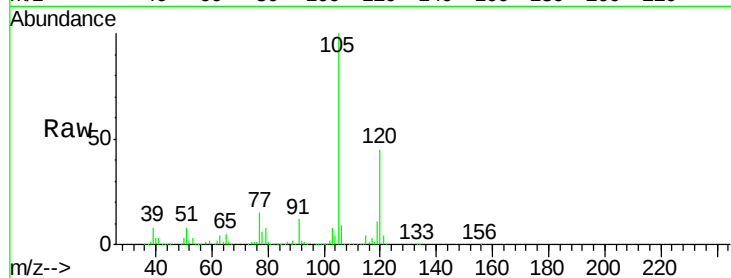
105 100

120 45.0 35.7 53.5

Manual Integrations
APPROVED

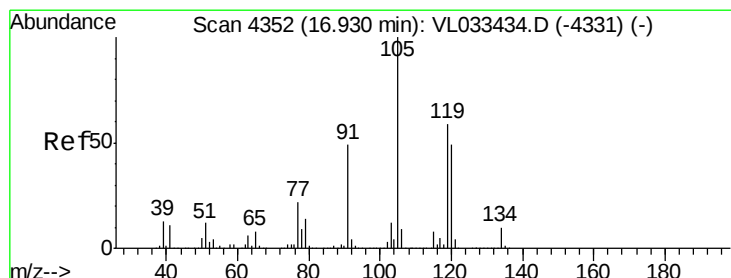
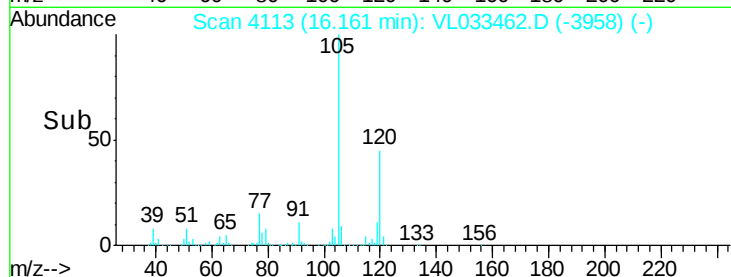
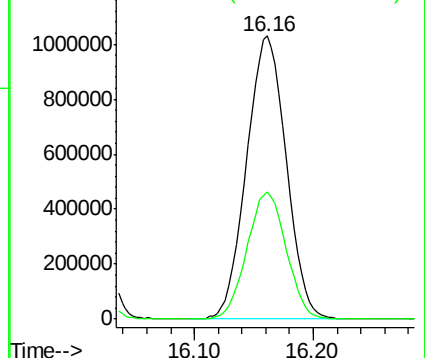
MMDadoda

4/1/2019 1:23:18 AM



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: 9.718 ppbv

RT: 16.93 min Scan# 4352

Delta R.T. -0.00 min

Lab File: VL033462.D

Acq: 26 Mar 2019 8:04

Tgt Ion:105 Resp: 2472870

Ion Ratio Lower Upper

105 100

120 46.7 39.0 58.6

91 45.9 40.0 60.0

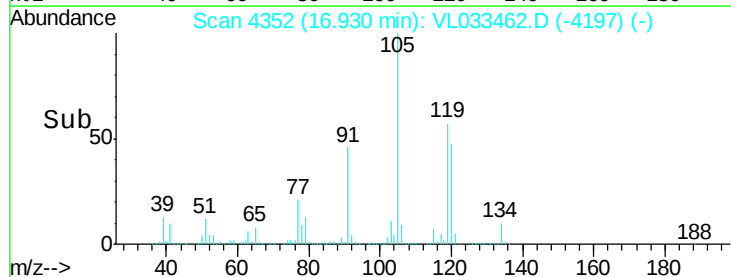
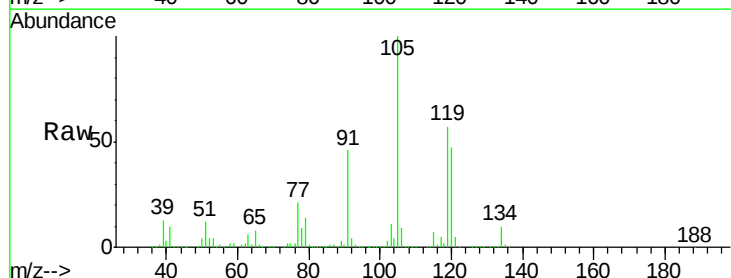
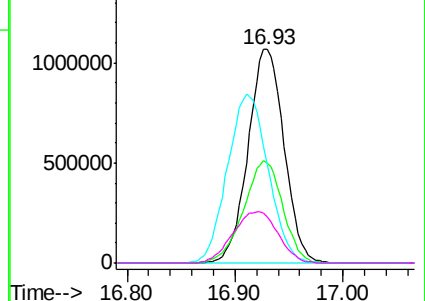
77 21.4 17.5 26.3

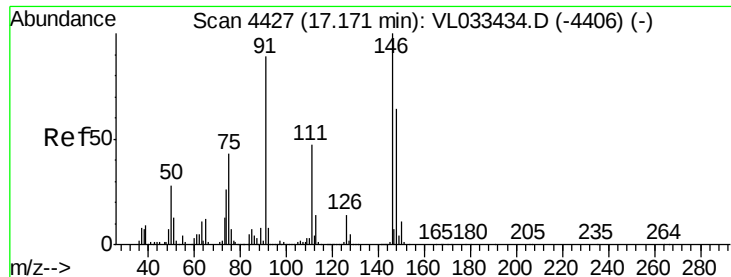
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 9.313 ppbv

RT: 17.17 min Scan# 4426

Delta R.T. -0.00 min

Lab File: VL033462.D

Acq: 26 Mar 2019 8:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 1464767

Ion Ratio Lower Upper

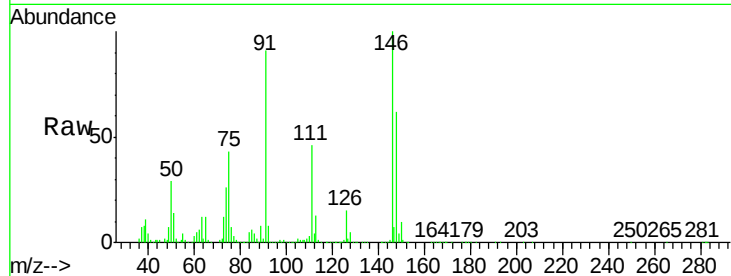
146 100

111 45.4 22.9 68.8

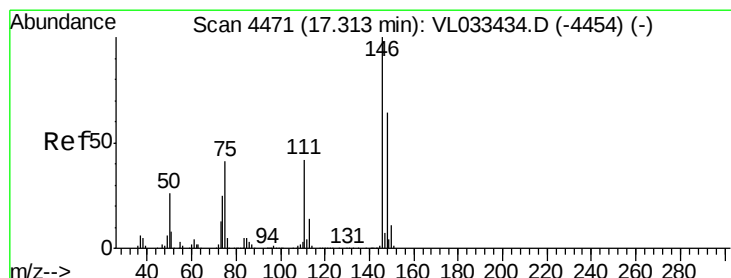
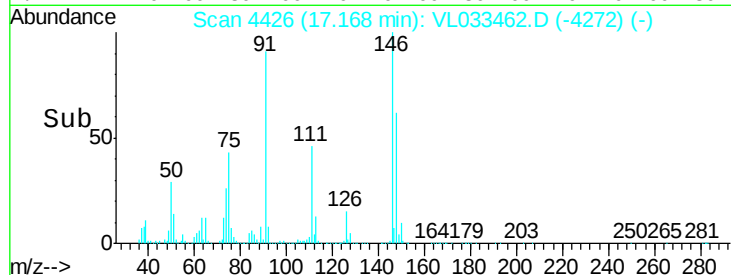
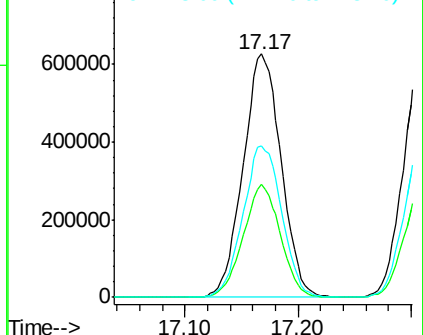
148 63.6 32.0 96.2

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:23:18 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



#76

1,4-Dichlorobenzene

Concen: 9.510 ppbv

RT: 17.31 min Scan# 4470

Delta R.T. -0.00 min

Lab File: VL033462.D

Acq: 26 Mar 2019 8:04

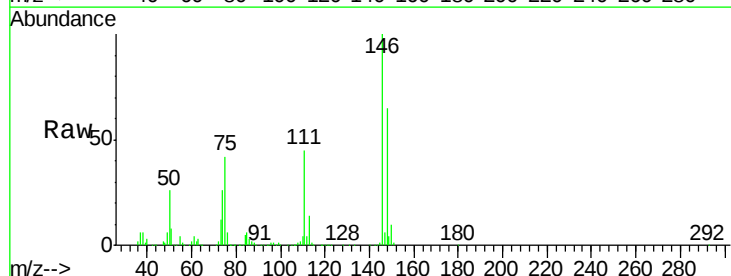
Tgt Ion:146 Resp: 1457367

Ion Ratio Lower Upper

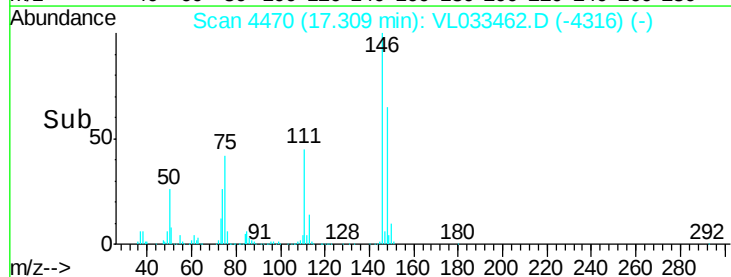
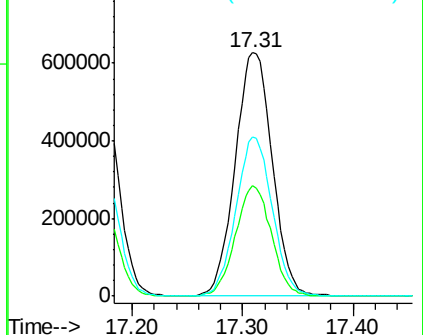
146 100

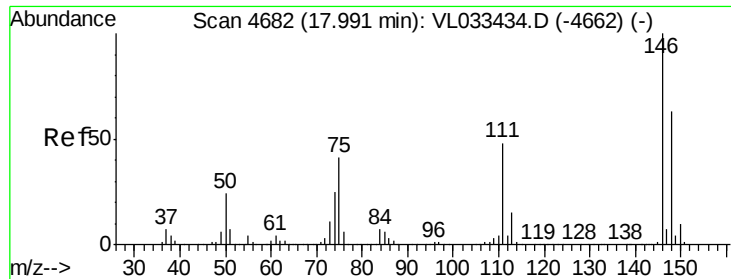
111 44.0 21.7 65.1

148 64.1 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





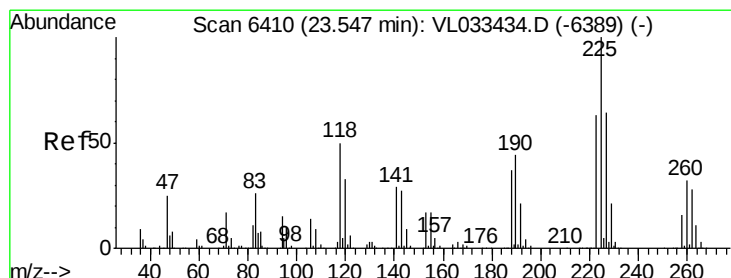
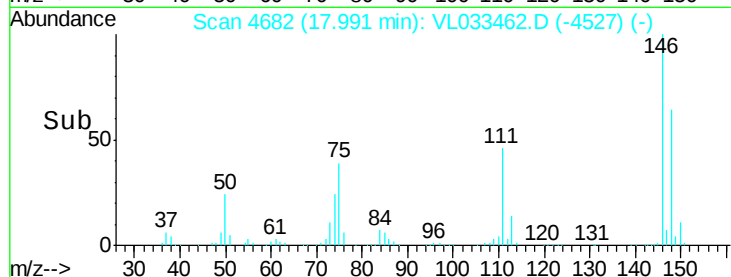
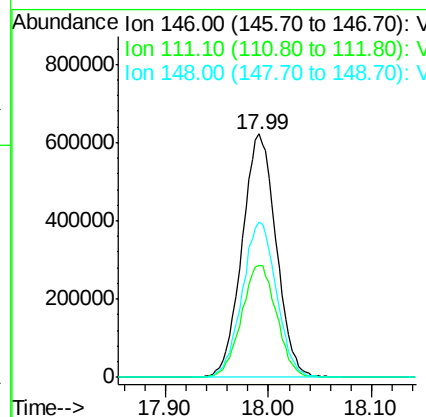
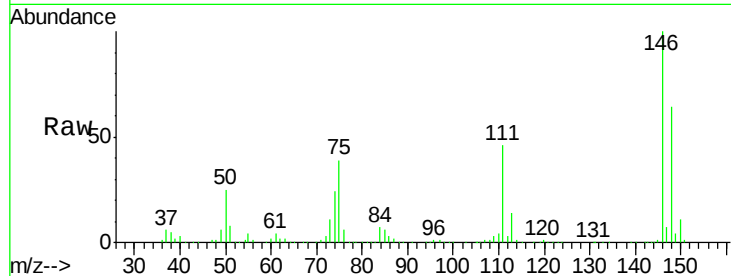
#77
 1,2-Dichlorobenzene
 Concen: 9.598 ppbv
 RT: 17.99 min Scan# 4682
 Delta R.T. -0.00 min
 Lab File: VL033462.D
 Acq: 26 Mar 2019 8:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:146 Resp: 1432266
 Ion Ratio Lower Upper
 146 100
 111 47.2 23.5 70.5
 148 64.1 32.0 96.0

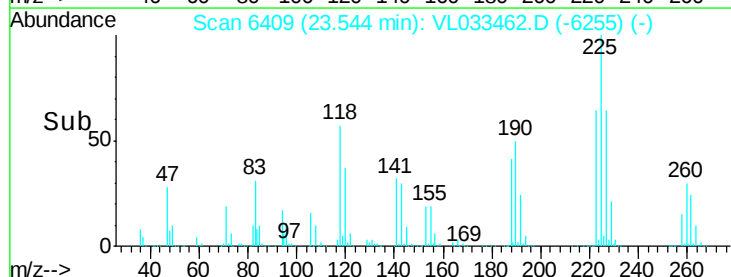
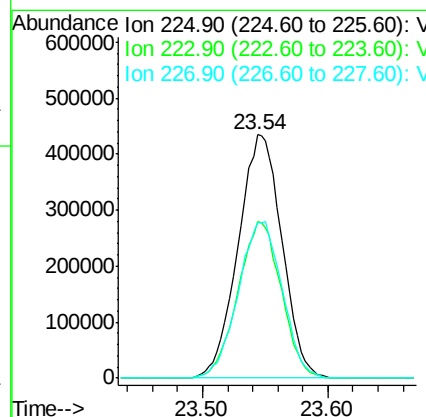
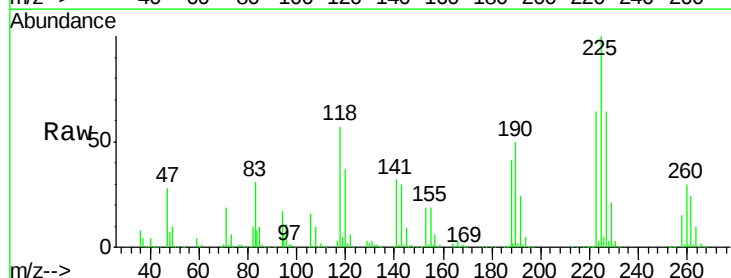
Manual Integrations
 APPROVED

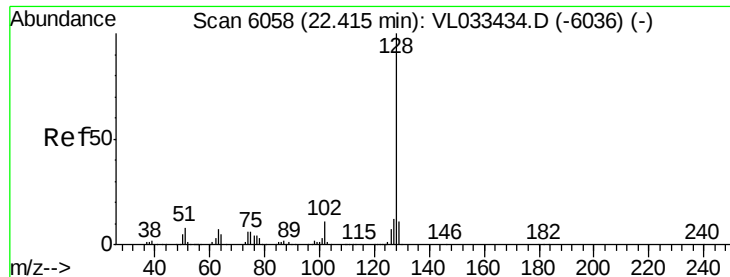
MMDadoda
 4/1/2019 1:23:18 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 10.667 ppbv
 RT: 23.54 min Scan# 6409
 Delta R.T. -0.00 min
 Lab File: VL033462.D
 Acq: 26 Mar 2019 8:04

Tgt Ion:225 Resp: 1053678
 Ion Ratio Lower Upper
 225 100
 223 63.5 50.0 75.0
 227 64.7 51.1 76.7





#79

Naphthalene

Concen: 11.220 ppbv

RT: 22.42 min Scan# 6058

Delta R.T. -0.00 min

Lab File: VL033462.D

Acq: 26 Mar 2019 8:04

Instrument :

MSVOA_L

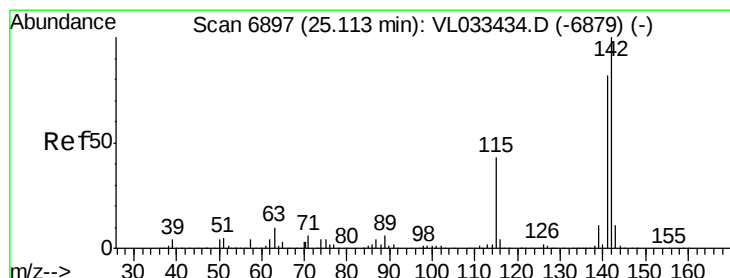
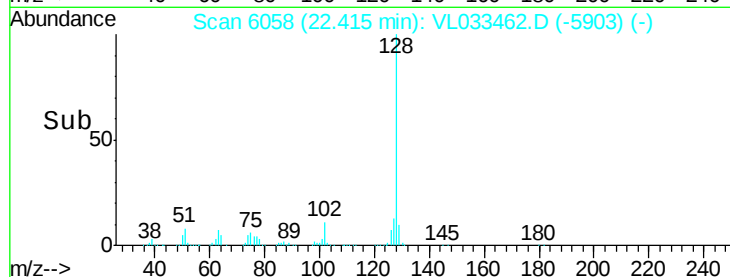
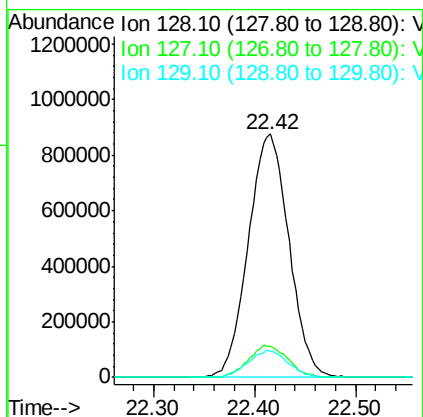
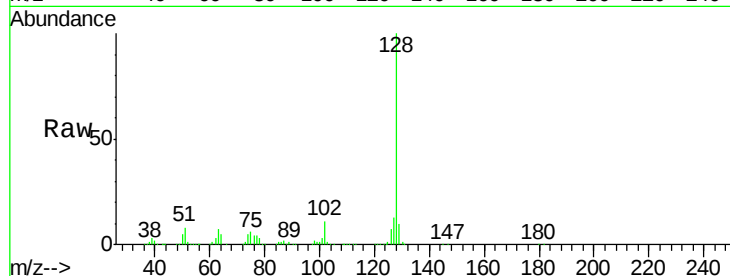
ClientSampleId :

VSTDCCC010EC

Tot Ion:	128	Resp:	2443987
Ion	Ratio	Lower	Upper
128	100		
127	12.7	9.8	14.8
129	10.4	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:23:18 AM



#80

Naphthalene, 2-methyl-

Concen: 15.775 ppbv

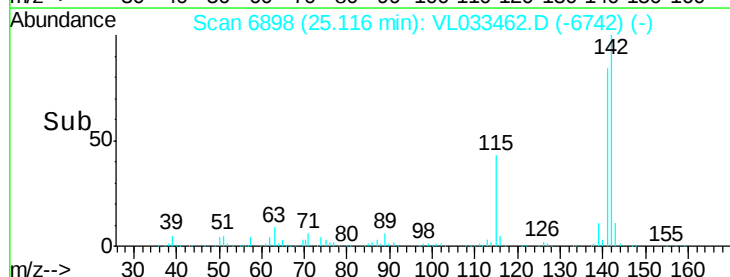
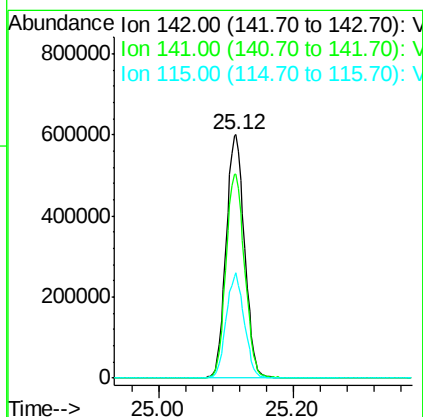
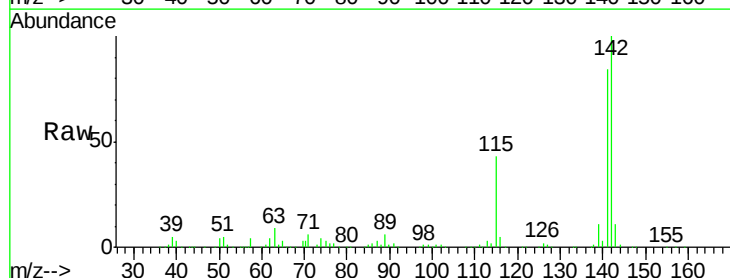
RT: 25.12 min Scan# 6898

Delta R.T. 0.00 min

Lab File: VL033462.D

Acq: 26 Mar 2019 8:04

Tgt Ion:	142	Resp:	1153193
Ion	Ratio	Lower	Upper
142	100		
141	85.0	66.6	99.8
115	42.3	34.4	51.6





#81
 1,2,4-Trichlorobenzene
 Concen: 10.150 ppbv
 RT: 22.14 min Scan# 5971
 Delta R.T. -0.01 min
 Lab File: VL033462.D
 Acq: 26 Mar 2019 8:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.2	77.0	115.4
184	31.5	24.6	36.8

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:23:18 AM

