

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090519\
 Data File : VL034129.D
 Acq On : 5 Sep 2019 10:11
 Operator : SY/AP
 Sample : VL0905ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0905ABS01

Manual Integrations
 APPROVED

MMDadoda
 9/12/2019 5:15:05 AM

Quant Time: Sep 06 04:20:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 06 04:20:28 2019
 QLast Update : Thu Sep 05 10:21:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.71	49	1075605	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.24	114	2029335	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	2223265m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.51	95	1757041	9.67	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	1682283	9.482 ppbv	99
3) Chlorodifluoromethane	2.98	51	1146615m	9.563 ppbv	
4) Chloromethane	3.13	50	713915	9.524 ppbv	97
5) Vinyl Chloride	3.25	62	621133	9.097 ppbv	99
6) Bromomethane	3.47	94	309869	9.196 ppbv	93
7) Chloroethane	3.56	64	220871	9.495 ppbv	97
8) Dichlorotetrafluoroethane	3.18	85	1278862	8.956 ppbv	99
9) Propene	3.00	41	614743	9.164 ppbv	98
10) Heptane	8.19	43	1606598	9.228 ppbv	99
11) Trichlorofluoromethane	3.96	101	1320806	9.129 ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.50	101	881573	9.107 ppbv	100
13) Ethanol	3.61	45	98397	7.487 ppbv	99
14) Bromoethene	3.74	108	388785	9.277 ppbv	99
15) Acetone	3.86	43	1123882	8.670 ppbv	99
16) 1,3-Butadiene	3.32	39	624866	9.518 ppbv	97
17) tert-Butyl alcohol	4.31	59	784625	8.338 ppbv	100
18) 1,1-Dichloroethene	4.30	96	413393	9.348 ppbv	96
19) Isopropyl Alcohol	3.98	45	696780	7.963 ppbv	100
20) Methylene Chloride	4.36	84	370308	8.640 ppbv	96
21) Allyl Chloride	4.43	41	821121	9.608 ppbv	98
22) trans-1,2-Dichloroethene	4.91	96	408922	9.238 ppbv	99
23) Vinyl Acetate	5.10	43	2084220	9.477 ppbv	99
24) 1,1-Dichloroethane	5.04	63	1335748	9.151 ppbv	98
25) Ethyl Acetate	5.72	43	2490315	8.752 ppbv	100
26) Hexane	5.72	57	1057930	8.362 ppbv	100
27) Carbon Disulfide	4.57	76	1117752	9.790 ppbv	100
28) Methyl tert-Butyl Ether	5.06	73	1688372	9.108 ppbv	100
29) Chloroform	5.80	83	1568557	9.192 ppbv	98
30) Cyclohexane	7.19	84	855492	9.353 ppbv	98
31) cis-1,2-Dichloroethene	5.59	61	1144907	9.450 ppbv	98
32) 1,1,1-Trichloroethane	6.56	97	1464270	9.083 ppbv	98
34) 2-Butanone	5.27	43	1787635	9.163 ppbv	99
35) Carbon Tetrachloride	7.07	117	1426683	9.017 ppbv	98
36) Benzene	6.95	78	2100380	9.055 ppbv	97
37) 1,2-Dichloroethane	6.36	62	1332118	9.362 ppbv	99
38) Trichloroethene	7.90	130	673402	7.780 ppbv	94
39) 1,2-Dichloropropane	7.68	63	894448	9.011 ppbv	93
40) 1,4-Dioxane	7.89	88	277939	7.619 ppbv	# 97
41) Tetrahydrofuran	6.09	42	1105097	9.448 ppbv	98
42) Bromodichloromethane	7.86	83	1733835	9.349 ppbv	99
43) Methyl Methacrylate	8.08	69	899966	9.418 ppbv	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090519\
 Data File : VL034129.D
 Acq On : 5 Sep 2019 10:11
 Operator : SY/AP
 Sample : VL0905ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0905ABS01

Manual Integrations
 APPROVED

MMDadoda
 9/12/2019 5:15:05 AM

Quant Time: Sep 06 04:20:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 06 04:20:28 2019
 QLast Update : Thu Sep 05 10:21:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.93	57	3698703	8.649	ppbv	99
45) t-1,3-Dichloropropene	9.35	75	1183540	10.538	ppbv	97
46) cis-1,3-Dichloropropene	8.78	75	1332329	9.751	ppbv	99
47) 1,1,2-Trichloroethane	9.55	97	827657	9.152	ppbv	96
48) Dibromochloromethane	10.39	129	1312733	9.728	ppbv	99
49) Bromoform	13.14	173	1130015	9.551	ppbv	99
50) 4-Methyl-2-Pentanone	8.81	43	2603209	8.744	ppbv	99
51) 2-Hexanone	10.21	43	2273678	8.841	ppbv	99
52) Tetrachloroethene	11.31	164	666797	8.152	ppbv	97
53) Toluene	9.88	91	2313780	9.019	ppbv	100
54) 1,2-Dibromoethane	10.70	107	1227188	9.109	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.22	131	836653	8.774	ppbv #	61
57) Chlorobenzene	12.24	112	1612549	8.432	ppbv	97
58) Ethyl Benzene	12.80	91	3125840	8.574	ppbv	96
59) m/p-Xylene	13.09	91	5007531m	16.838	ppbv	
60) o-Xylene	13.79	91	2444148	8.251	ppbv	100
61) Styrene	13.62	104	1936836	8.742	ppbv	99
62) Isopropylbenzene	14.76	105	3175374	8.239	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.77	83	1775378	7.355	ppbv	100
64) n-propylbenzene	15.66	120	836881	8.668	ppbv	97
65) tert-Butylbenzene	16.84	119	2656444	7.986	ppbv	99
66) Benzyl Chloride	17.09	91	1322982	10.788	ppbv	99
67) sec-Butylbenzene	17.40	105	3840805	8.030	ppbv	99
69) p-Isopropyltoluene	17.75	119	3102185	8.106	ppbv	100
70) n-Butylbenzene	18.65	91	3504272	8.048	ppbv	99
71) 2-Chlorotoluene	15.55	91	2651667	8.422	ppbv	99
72) 4-Ethyltoluene	15.94	105	2827306	8.460	ppbv	99
73) 1,3,5-Trimethylbenzene	16.10	105	2697745	8.306	ppbv	100
74) 1,2,4-Trimethylbenzene	16.86	105	2664310	7.966	ppbv #	93
75) 1,3-Dichlorobenzene	17.10	146	1449195	8.177	ppbv	99
76) 1,4-Dichlorobenzene	17.24	146	1509657	8.128	ppbv	100
77) 1,2-Dichlorobenzene	17.92	146	1452527	8.006	ppbv	98
78) Hexachloro-1,3-Butadiene	23.48	225	958593	7.744	ppbv	99
79) Naphthalene	22.33	128	2567596	8.491	ppbv	98
80) Naphthalene, 2-methyl-	25.06	142	1519178	14.474	ppbv	100
81) 1,2,4-Trichlorobenzene	22.06	180	1382329	8.402	ppbv	98

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

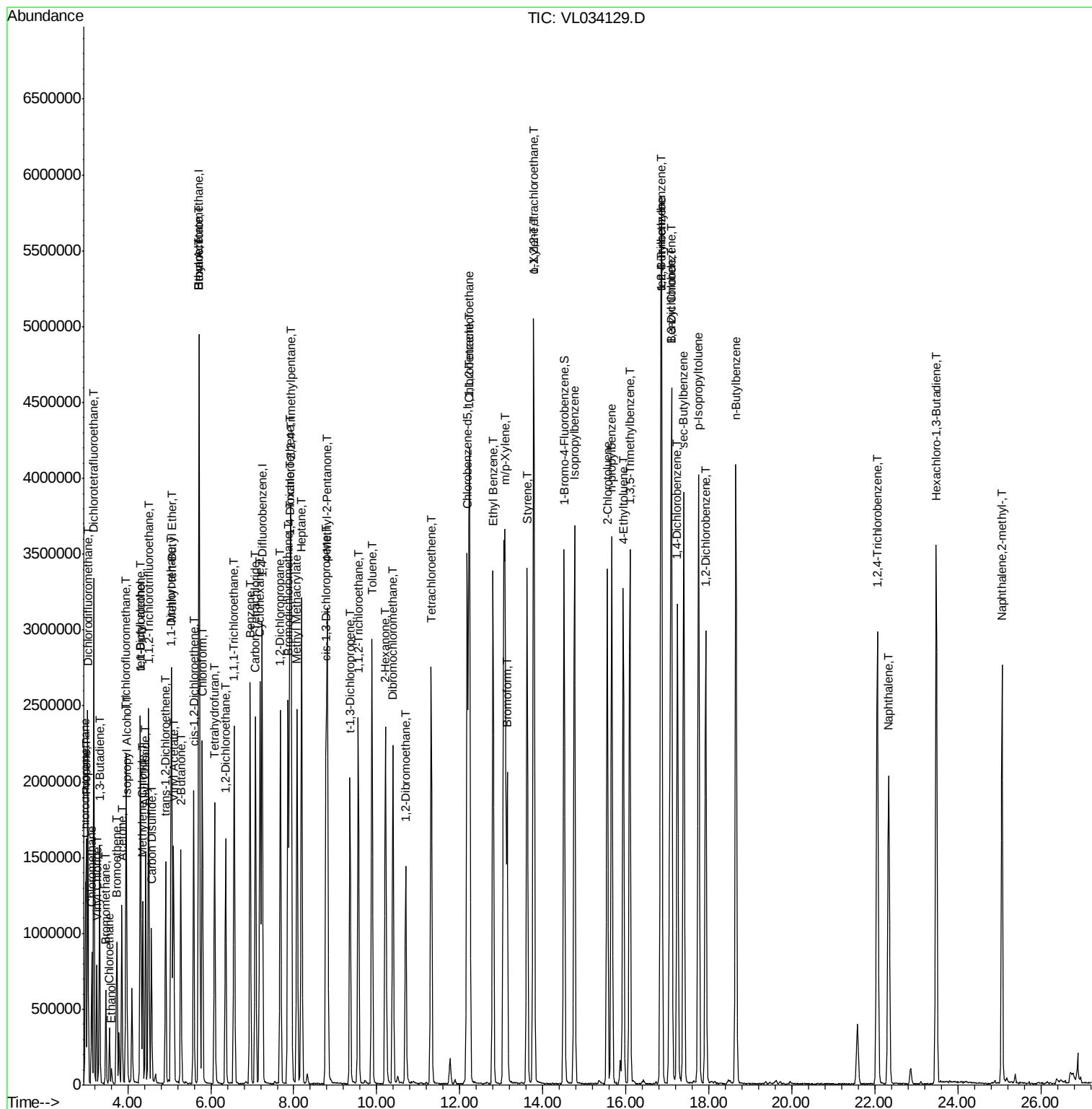
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL090519\
Data File : VL034129.D
Acq On : 5 Sep 2019 10:11
Operator : SY/AP
Sample : VL0905ABS01
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

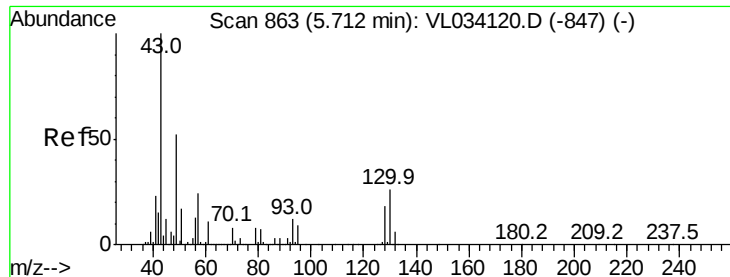
Instrument :
MSVOA_L
ClientSampleId :
VL0905ABS01

Manual Integrations
APPROVED

MMDadoda
9/12/2019 5:15:05 AM

Quant Time: Sep 06 04:20:28 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep
QLast Update : Thu Sep 05 10:21:45 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.71 min Scan# 862

Delta R.T. -0.00 min

Lab File: VL034129.D

Acq: 5 Sep 2019 10:11

Instrument :

MSVOA_L

ClientSampleId :

VL0905ABS01

Tot Ion: 49 Resp: 1075605

Ion Ratio Lower Upper

49 100

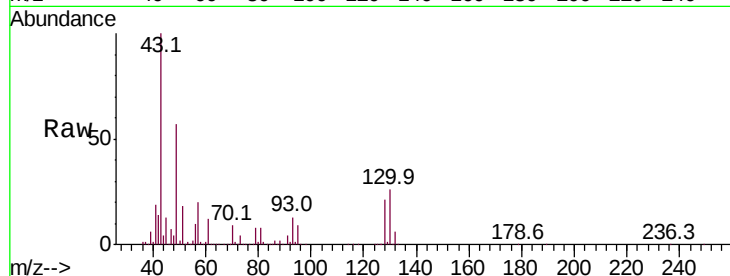
128 36.9 18.4 55.0

130 46.3 23.5 70.6

Manual Integrations
APPROVED

MMDadoda

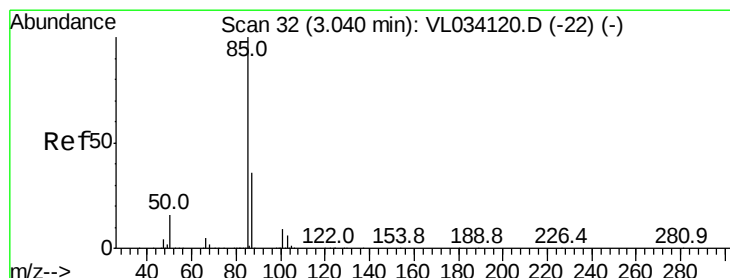
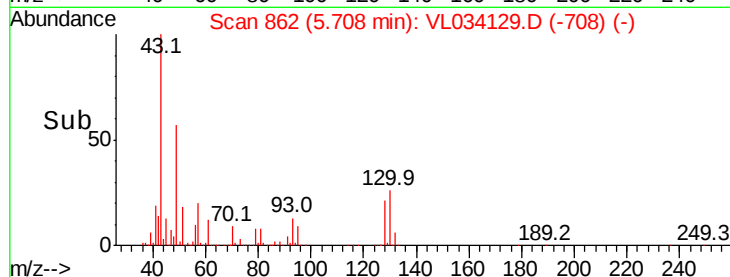
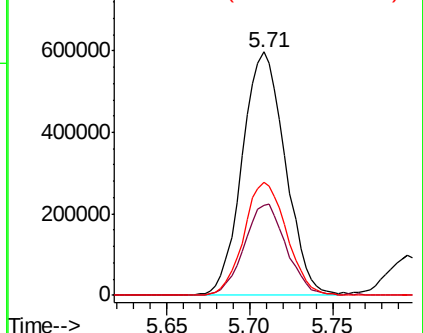
9/12/2019 5:15:05 AM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 9.482 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.00 min

Lab File: VL034129.D

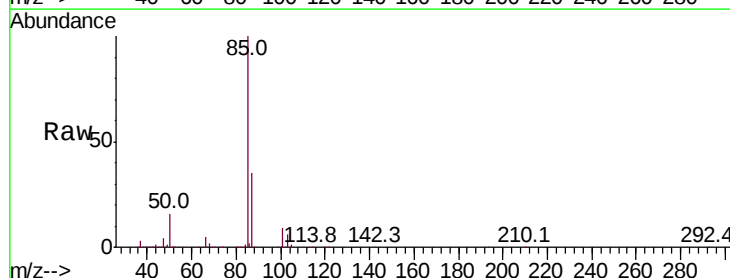
Acq: 5 Sep 2019 10:11

Tgt Ion: 85 Resp: 1682283

Ion Ratio Lower Upper

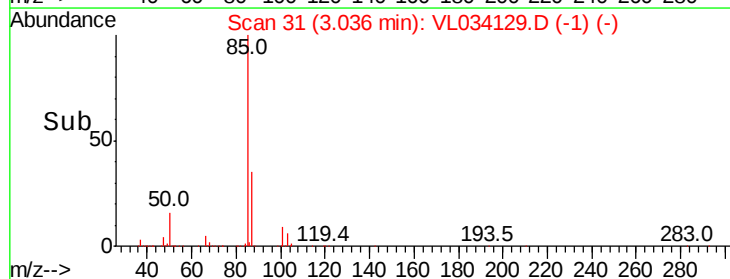
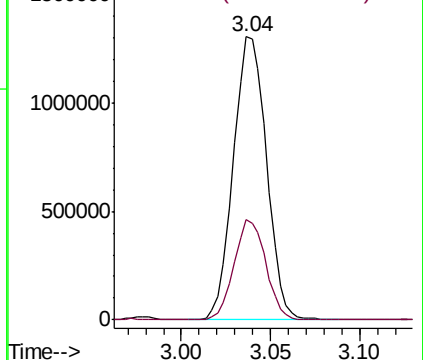
85 100

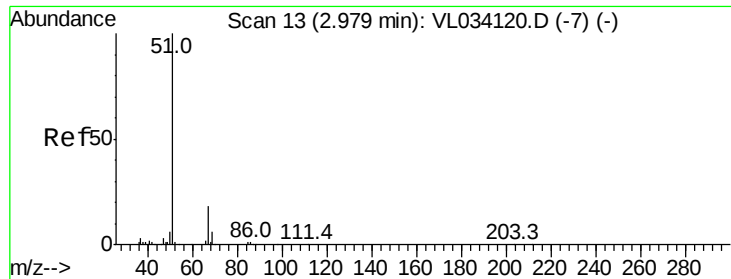
87 35.3 28.6 43.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





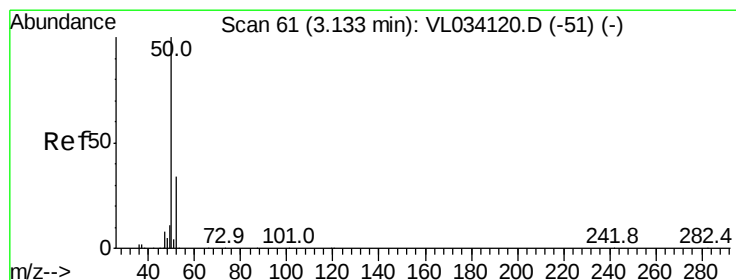
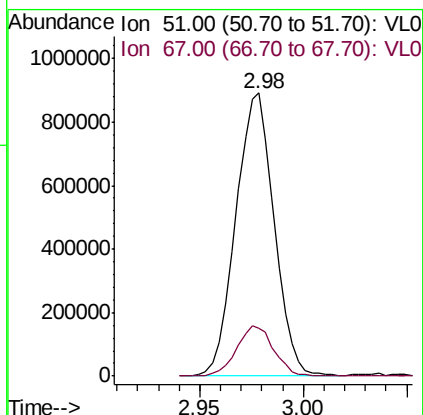
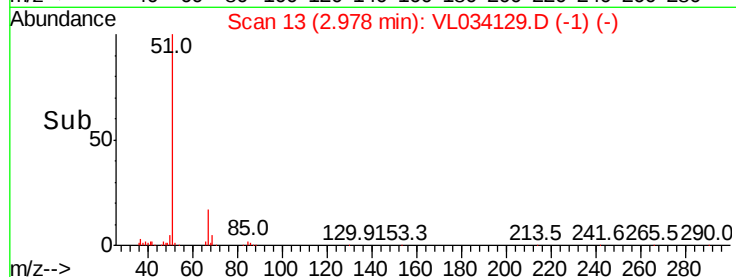
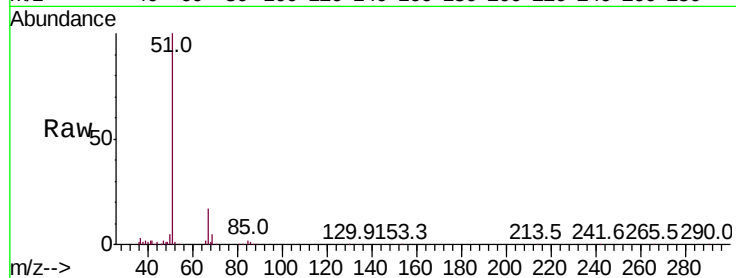
#3
Chlorodifluoromethane
Concen: 9.563 ppbv
RT: 2.98 min Scan# 13
Delta R.T. -0.00 min
Lab File: VL034129.D
Acq: 5 Sep 2019 10:11

Instrument :
MSVOA_L
ClientSampleId :
VL0905ABS01

Tot Ion: 51 Resp: 1146615
Ion Ratio Lower Upper
51 100
67 16.6 14.2 21.4

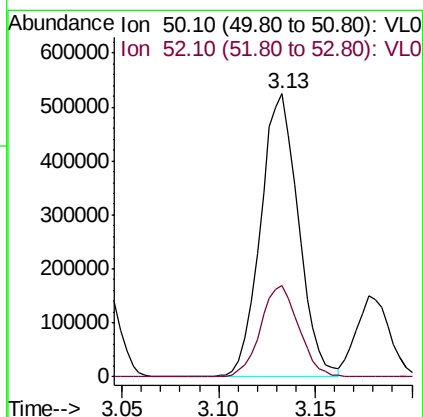
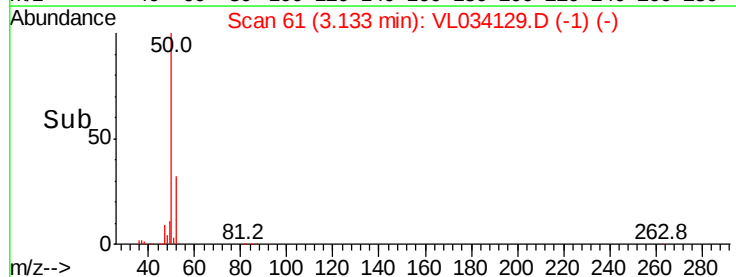
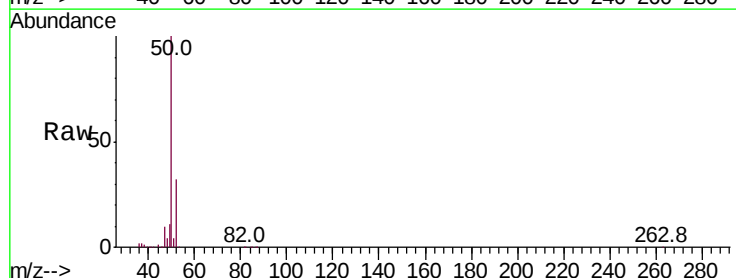
Manual Integrations
APPROVED

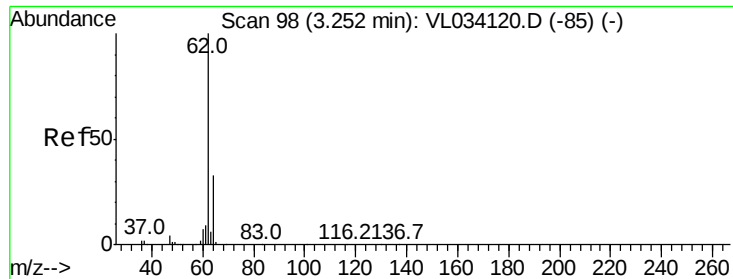
MMDadoda
9/12/2019 5:15:05 AM



#4
Chloromethane
Concen: 9.524 ppbv
RT: 3.13 min Scan# 61
Delta R.T. -0.00 min
Lab File: VL034129.D
Acq: 5 Sep 2019 10:11

Tgt Ion: 50 Resp: 713915
Ion Ratio Lower Upper
50 100
52 32.4 27.4 41.2





#5

Vinyl Chloride

Concen: 9.097 ppbv

RT: 3.25 min Scan# 98

Delta R.T. -0.00 min

Lab File: VL034129.D

Acq: 5 Sep 2019 10:11

Instrument :

MSVOA_L

ClientSampleID :

VL0905ABS01

Tot Ion: 62 Resp: 621133

Ion Ratio Lower Upper

62 100

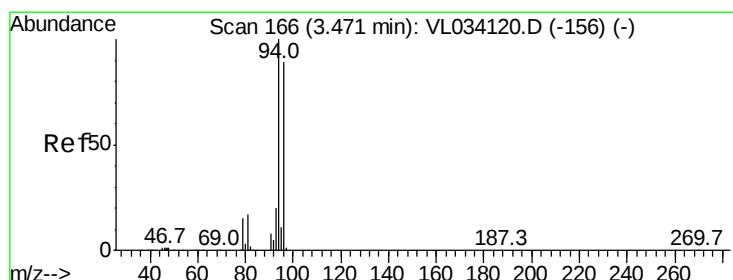
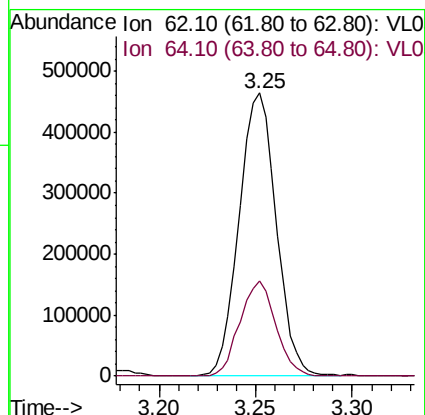
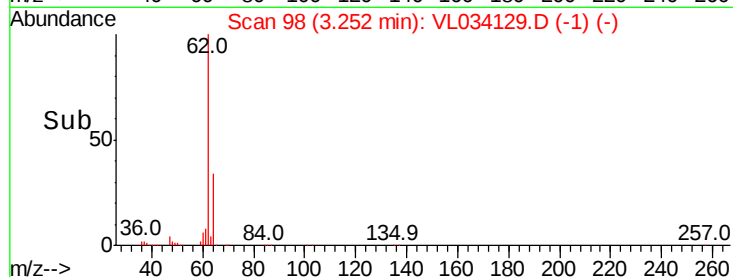
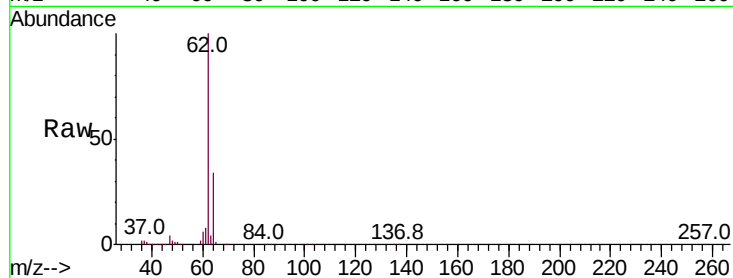
64 33.6 26.6 39.8

Manual Integrations

APPROVED

MMDadoda

9/12/2019 5:15:05 AM



#6

Bromomethane

Concen: 9.196 ppbv

RT: 3.47 min Scan# 166

Delta R.T. -0.00 min

Lab File: VL034129.D

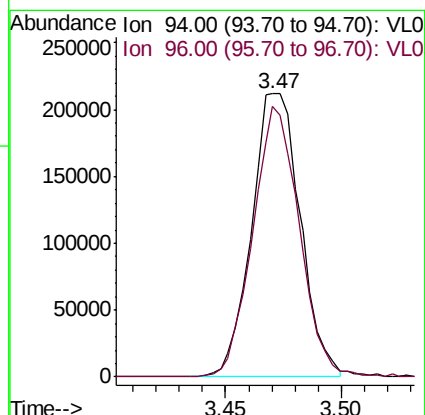
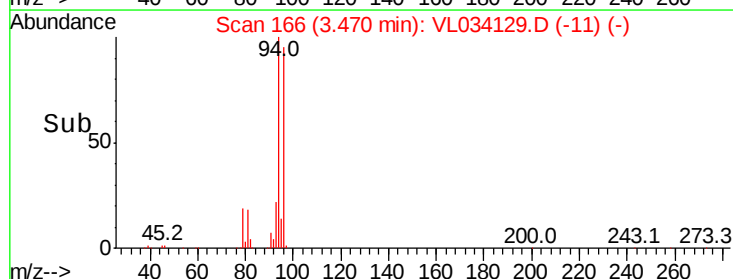
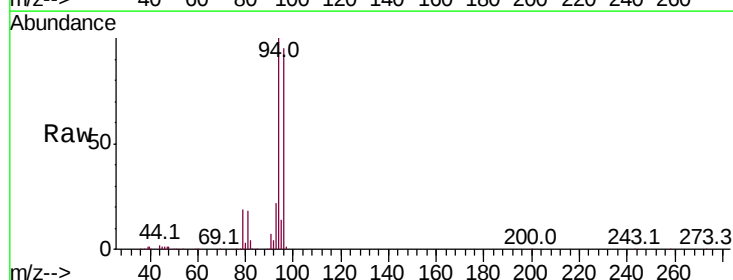
Acq: 5 Sep 2019 10:11

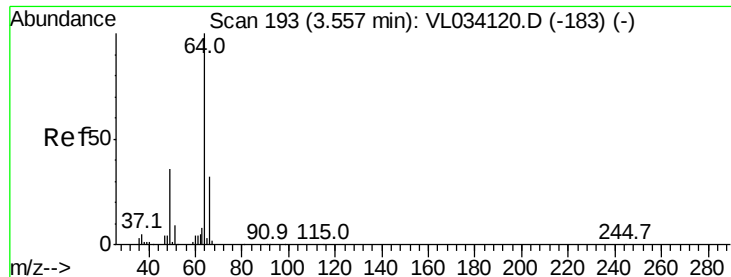
Tgt Ion: 94 Resp: 309869

Ion Ratio Lower Upper

94 100

96 95.4 71.4 107.0





#7

Chloroethane

Concen: 9.495 ppbv

RT: 3.56 min Scan# 193

Delta R.T. -0.00 min

Lab File: VL034129.D

Acq: 5 Sep 2019 10:11

Instrument :

MSVOA_L

ClientSampleId :

VL0905ABS01

Tot Ion: 64 Resp: 220871

Ion Ratio Lower Upper

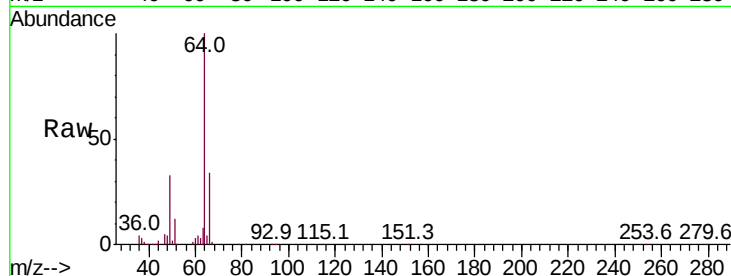
64 100

66 33.6 25.4 38.2

Manual Integrations
APPROVED

MMDadoda

9/12/2019 5:15:05 AM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.56

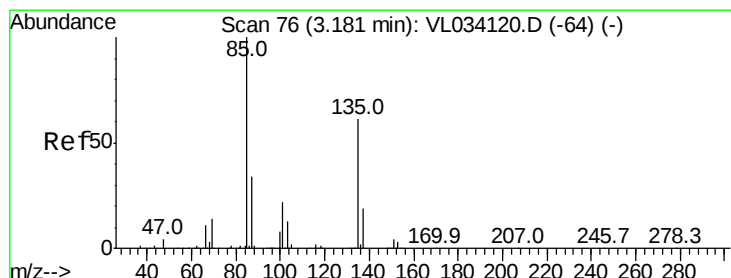
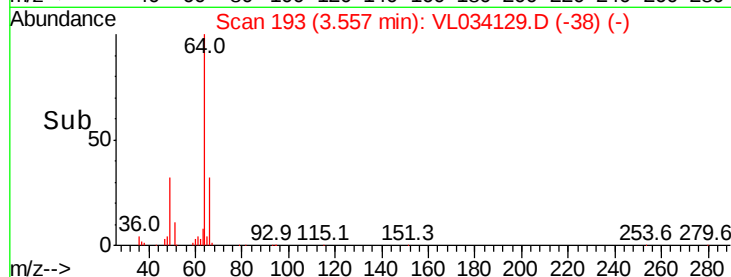
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 8.956 ppbv

RT: 3.18 min Scan# 76

Delta R.T. -0.00 min

Lab File: VL034129.D

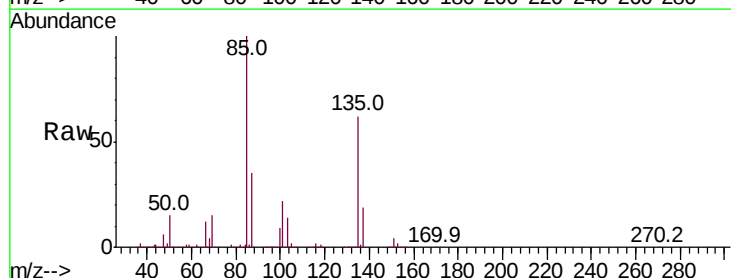
Acq: 5 Sep 2019 10:11

Tgt Ion: 85 Resp: 1278862

Ion Ratio Lower Upper

85 100

135 59.6 48.0 72.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.18

1000000

800000

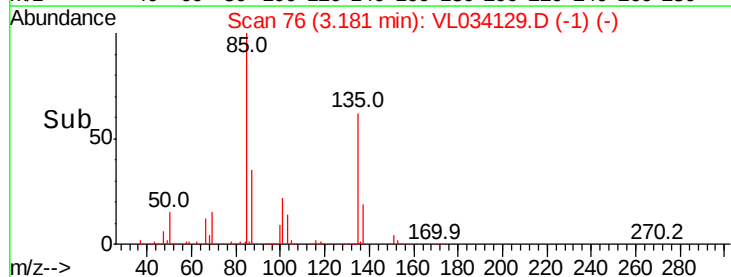
600000

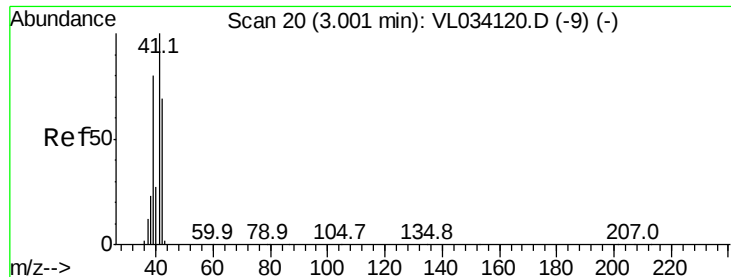
400000

200000

0

Time-->





#9

Propene

Concen: 9.164 ppbv

RT: 3.00 min Scan# 19

Delta R.T. -0.00 min

Lab File: VL034129.D

Acq: 5 Sep 2019 10:11

Instrument :

MSVOA_L

ClientSampleId :

VL0905ABS01

Tot Ion: 41 Resp: 614743

Ion Ratio Lower Upper

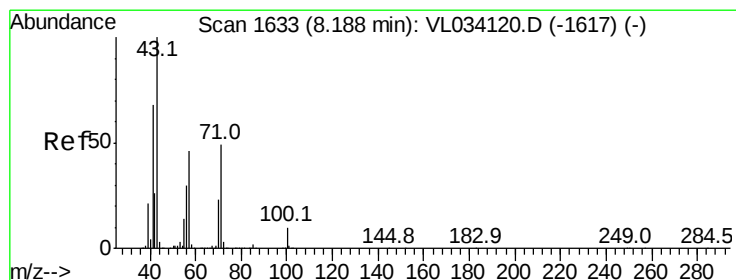
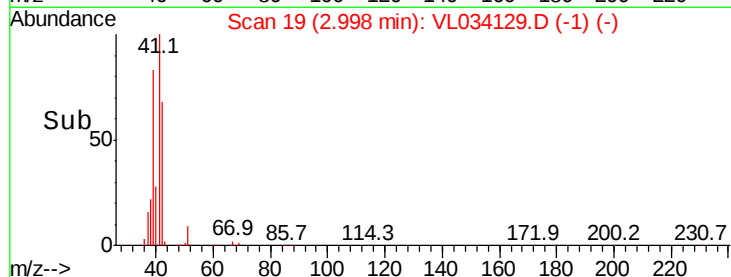
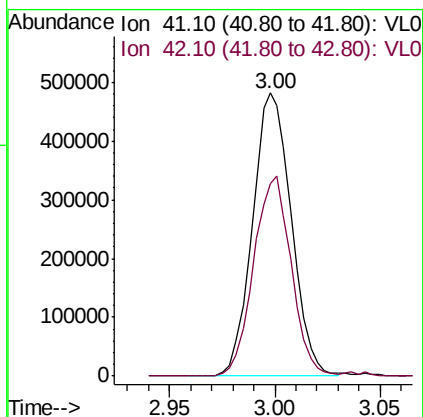
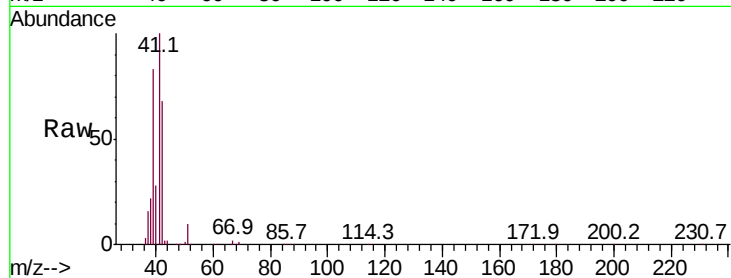
41 100

42 69.9 54.6 81.8

Manual Integrations
APPROVED

MMDadoda

9/12/2019 5:15:05 AM



#10

Heptane

Concen: 9.228 ppbv

RT: 8.19 min Scan# 1633

Delta R.T. -0.00 min

Lab File: VL034129.D

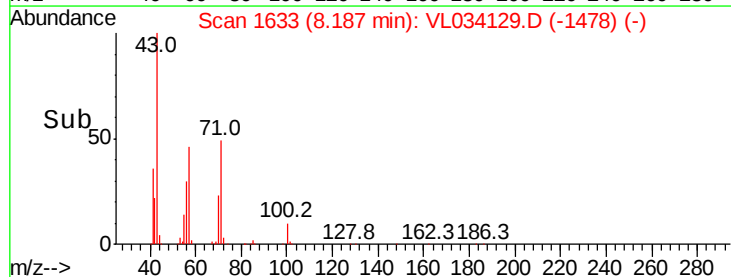
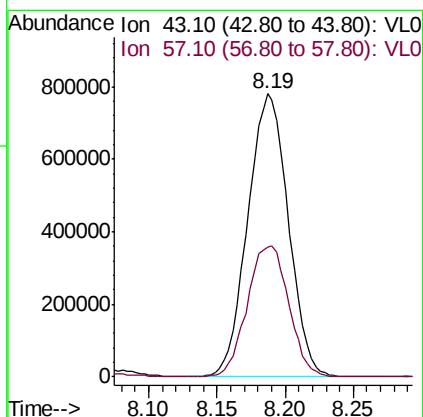
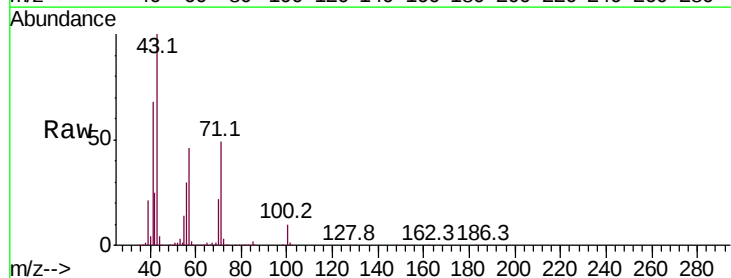
Acq: 5 Sep 2019 10:11

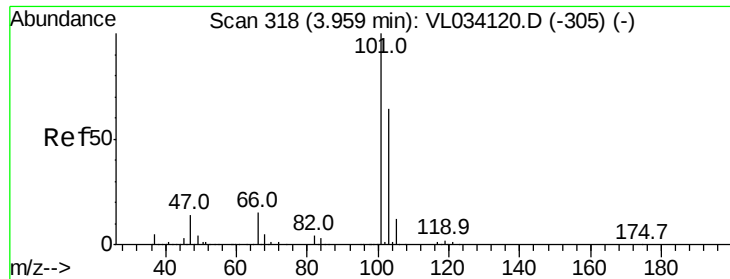
Tgt Ion: 43 Resp: 1606598

Ion Ratio Lower Upper

43 100

57 47.2 38.1 57.1





#11

Trichlorofluoromethane

Concen: 9.129 ppbv

RT: 3.96 min Scan# 318

Delta R.T. -0.00 min

Lab File: VL034129.D

Acq: 5 Sep 2019 10:11

Instrument :

MSVOA_L

ClientSampleId :

VL0905ABS01

Tot Ion:101 Resp: 1320806

Ion Ratio Lower Upper

101 100

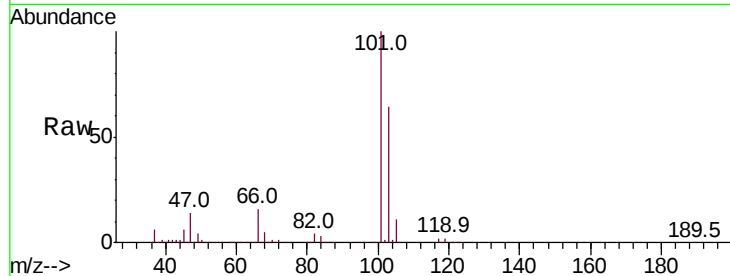
103 64.5 51.4 77.2

Manual Integrations

APPROVED

MMDadoda

9/12/2019 5:15:05 AM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

3.96

800000

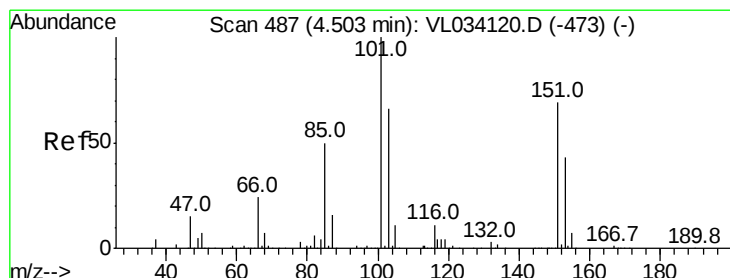
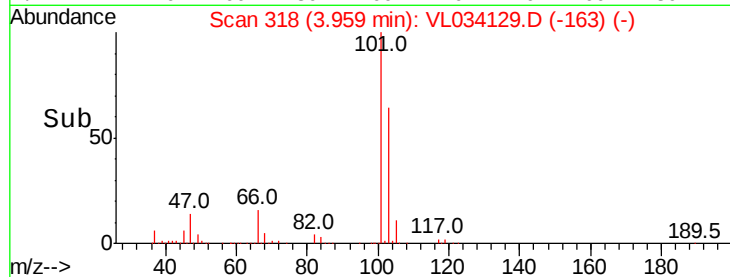
600000

400000

200000

0

Time-->



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.107 ppbv

RT: 4.50 min Scan# 487

Delta R.T. -0.00 min

Lab File: VL034129.D

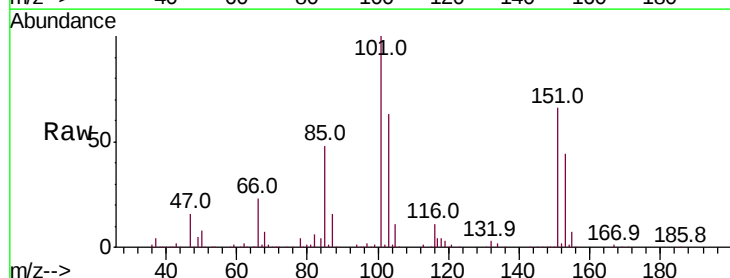
Acq: 5 Sep 2019 10:11

Tgt Ion:101 Resp: 881573

Ion Ratio Lower Upper

101 100

151 66.6 53.0 79.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

4.50

600000

500000

400000

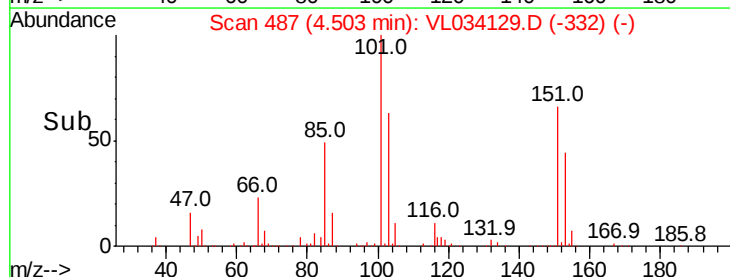
300000

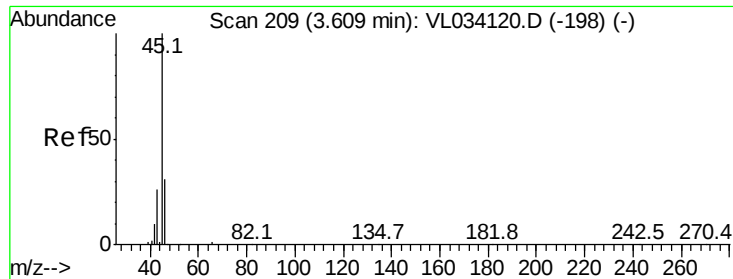
200000

100000

0

Time-->





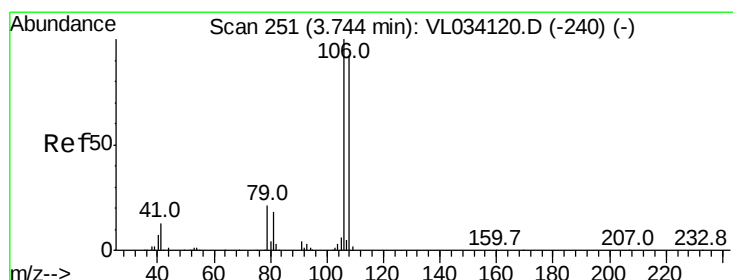
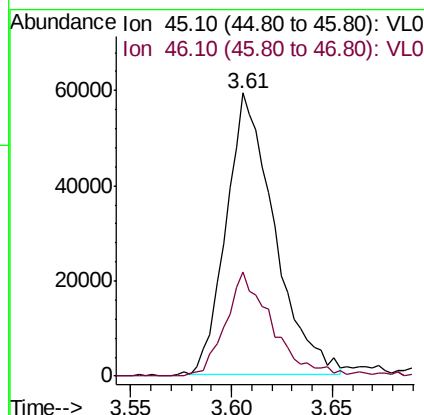
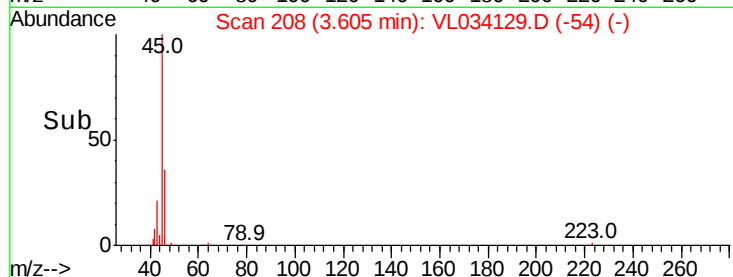
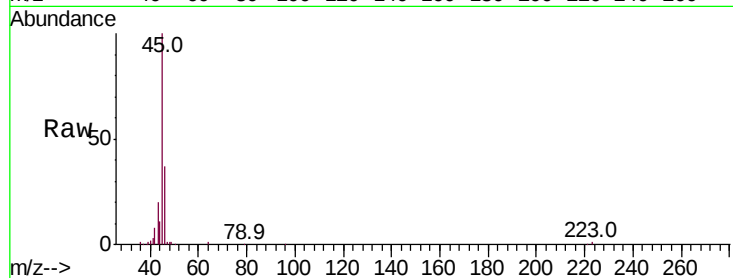
#13
Ethanol
Concen: 7.487 ppbv
RT: 3.61 min Scan# 208
Delta R.T. -0.00 min
Lab File: VL034129.D
Acq: 5 Sep 2019 10:11

Instrument :
MSVOA_L
ClientSampleId :
VL0905ABS01

Tot Ion: 45 Resp: 98397
Ion Ratio Lower Upper
45 100
46 36.7 15.0 60.0

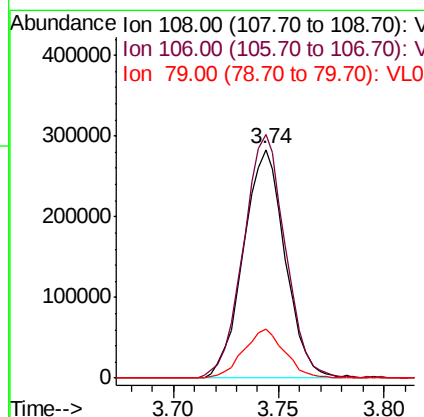
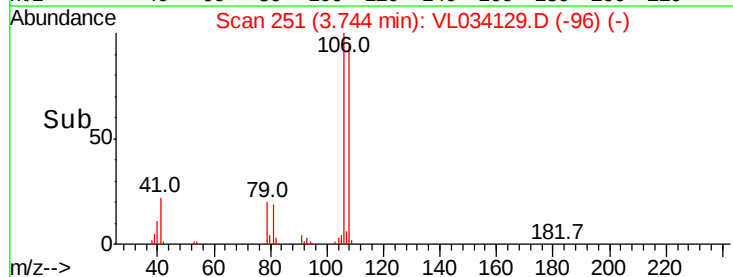
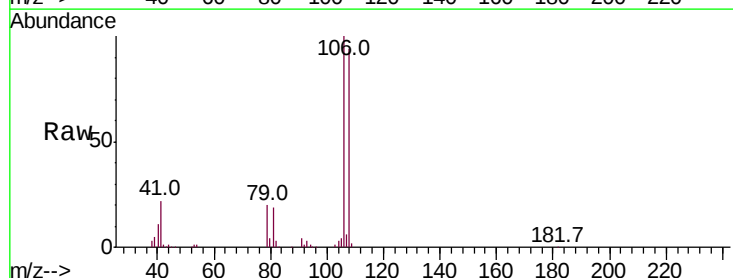
Manual Integrations
APPROVED

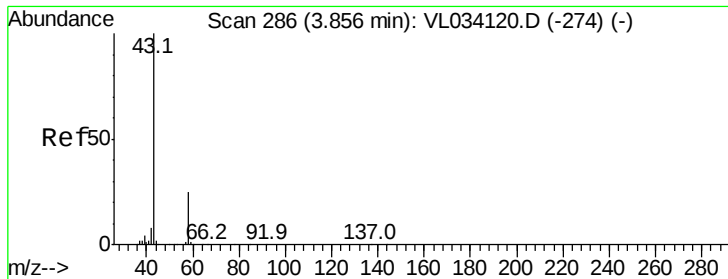
MMDadoda
9/12/2019 5:15:05 AM



#14
Bromoethene
Concen: 9.277 ppbv
RT: 3.74 min Scan# 251
Delta R.T. -0.00 min
Lab File: VL034129.D
Acq: 5 Sep 2019 10:11

Tgt Ion: 108 Resp: 388785
Ion Ratio Lower Upper
108 100
106 107.9 87.2 130.8
79 21.5 16.5 24.7





#15

Acetone

Concen: 8.670 ppbv

RT: 3.86 min Scan# 286

Delta R.T. -0.00 min

Lab File: VL034129.D

Acq: 5 Sep 2019 10:11

Instrument :

MSVOA_L

ClientSampleId :

VL0905ABS01

Tot Ion: 43 Resp: 1123882

Ion Ratio Lower Upper

43 100

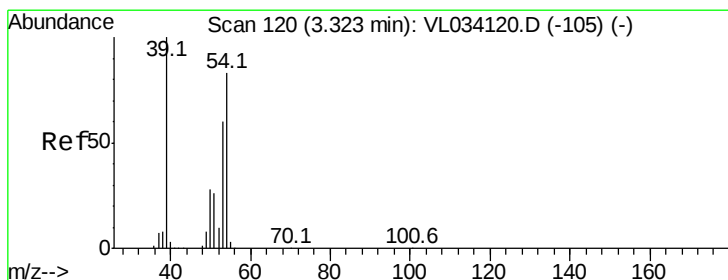
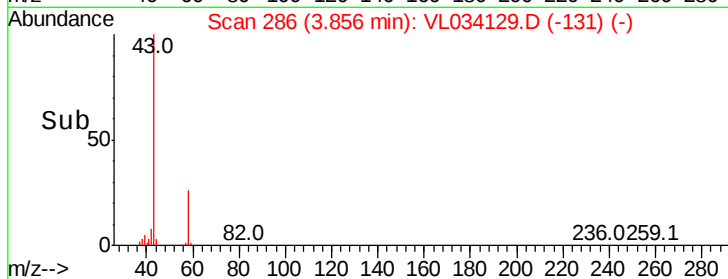
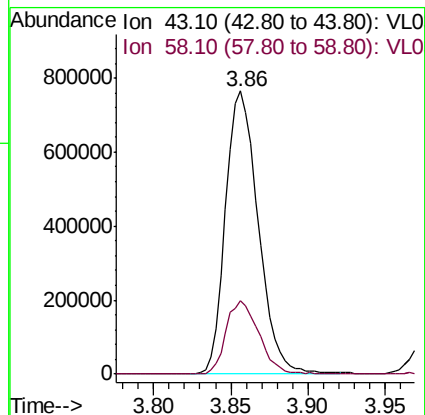
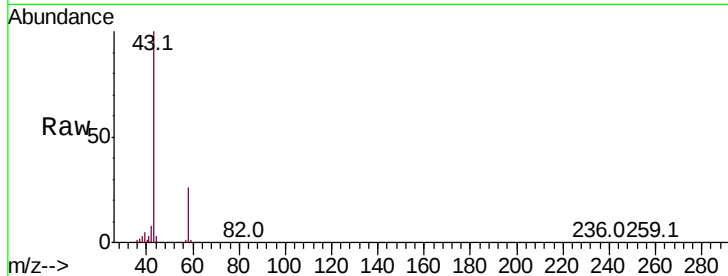
58 26.1 20.6 30.8

Manual Integrations

APPROVED

MMDadoda

9/12/2019 5:15:05 AM



#16

1,3-Butadiene

Concen: 9.518 ppbv

RT: 3.32 min Scan# 120

Delta R.T. -0.00 min

Lab File: VL034129.D

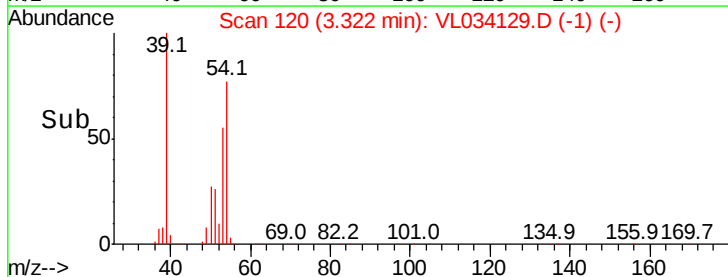
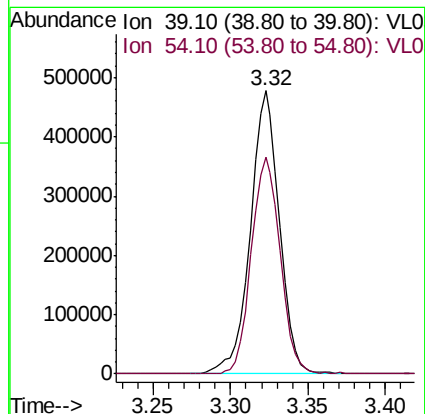
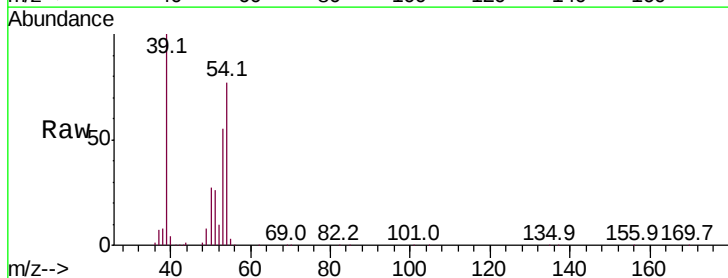
Acq: 5 Sep 2019 10:11

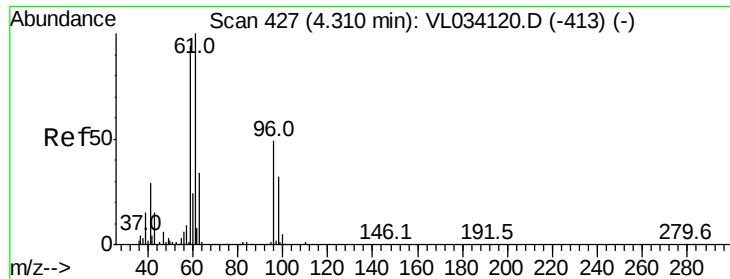
Tgt Ion: 39 Resp: 624866

Ion Ratio Lower Upper

39 100

54 76.6 63.5 95.3





#17

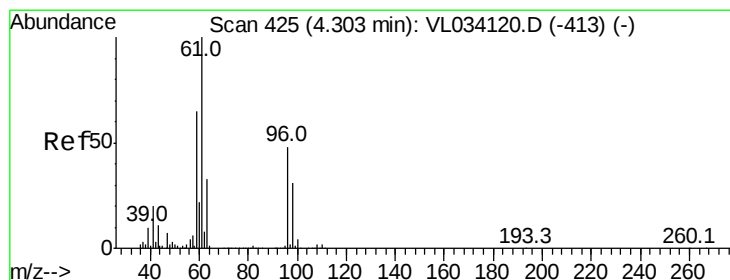
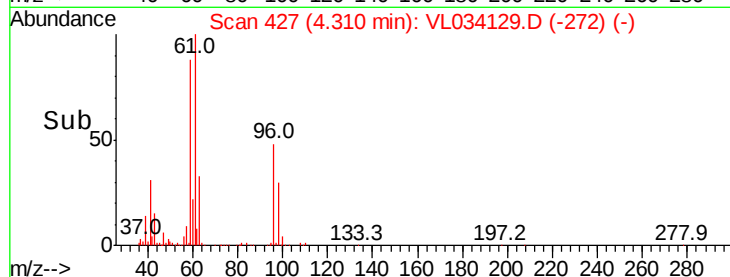
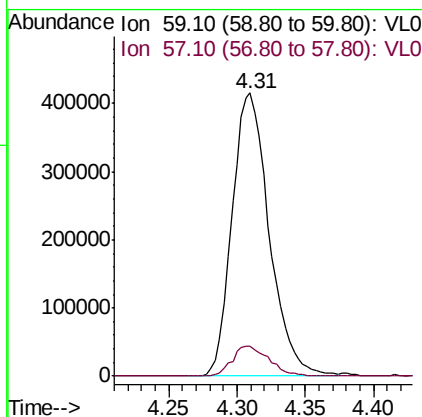
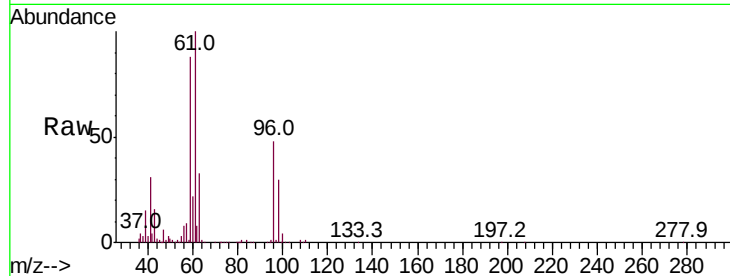
tert-Butyl alcohol
 Concen: 8.338 ppbv
 RT: 4.31 min Scan# 427
 Delta R.T. -0.00 min
 Lab File: VL034129.D
 Acq: 5 Sep 2019 10:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0905ABS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.6	12.8

Manual Integrations
 APPROVED

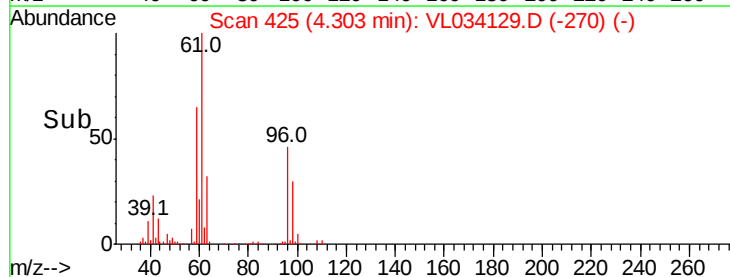
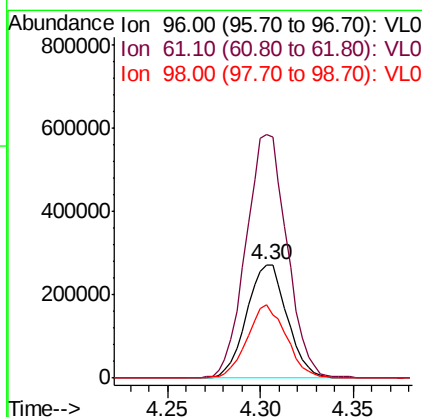
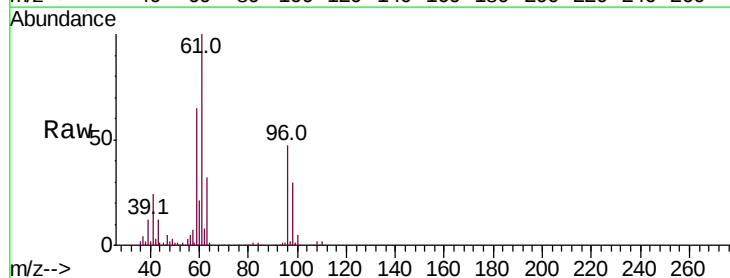
MMDadoda
 9/12/2019 5:15:05 AM

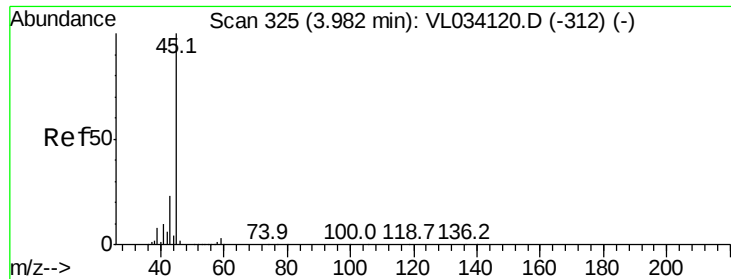


#18

1,1-Dichloroethene
 Concen: 9.348 ppbv
 RT: 4.30 min Scan# 425
 Delta R.T. -0.00 min
 Lab File: VL034129.D
 Acq: 5 Sep 2019 10:11

Tgt Ion	Ratio	Lower	Upper
96	100		
61	214.9	165.8	248.8
98	65.0	50.8	76.2





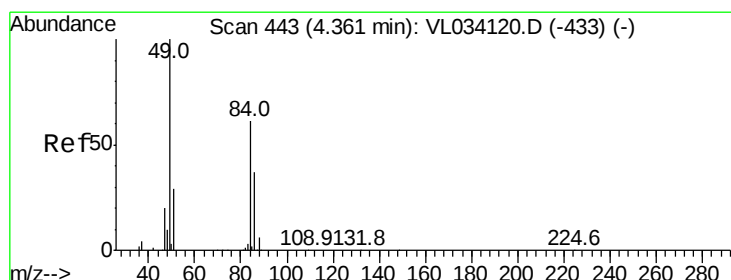
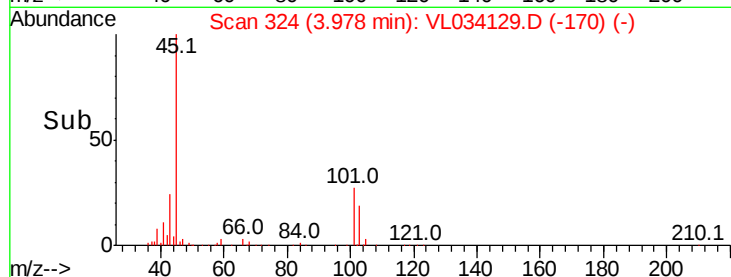
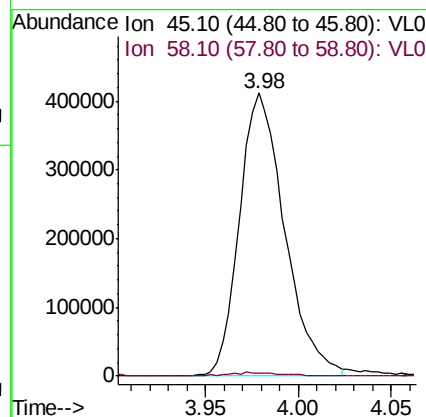
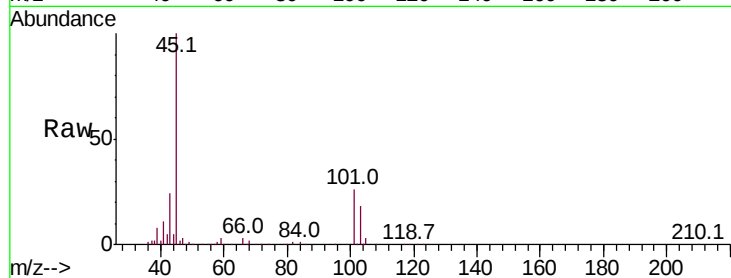
#19
Isopropyl Alcohol
Concen: 7.963 ppbv
RT: 3.98 min Scan# 324
Delta R.T. -0.00 min
Lab File: VL034129.D
Acq: 5 Sep 2019 10:11

Instrument :
MSVOA_L
ClientSampleId :
VL0905ABS01

Tot Ion: 45 Resp: 696780
Ion Ratio Lower Upper
45 100
58 1.4 1.0 1.6

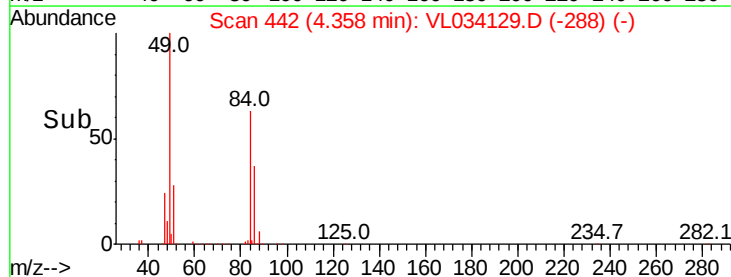
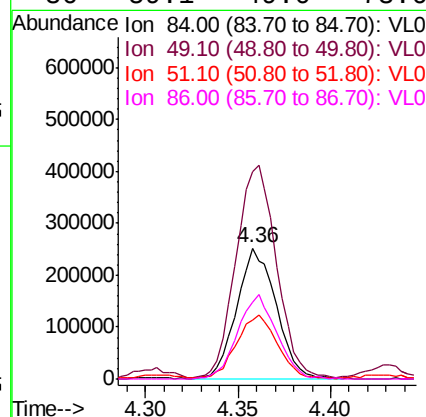
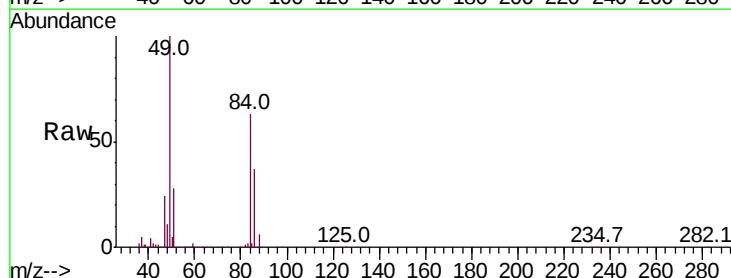
Manual Integrations
APPROVED

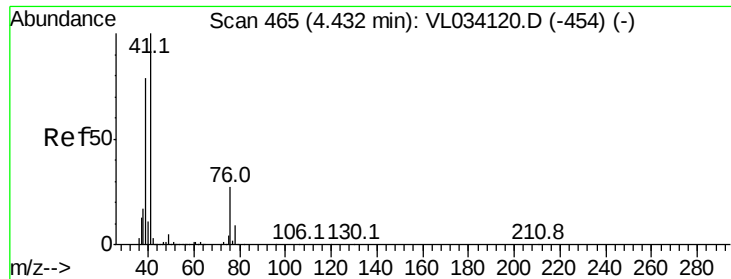
MMDadoda
9/12/2019 5:15:05 AM



#20
Methylene Chloride
Concen: 8.640 ppbv
RT: 4.36 min Scan# 442
Delta R.T. -0.00 min
Lab File: VL034129.D
Acq: 5 Sep 2019 10:11

Tgt Ion: 84 Resp: 370308
Ion Ratio Lower Upper
84 100
49 158.0 131.0 196.6
51 44.5 38.1 57.1
86 59.1 49.0 73.6





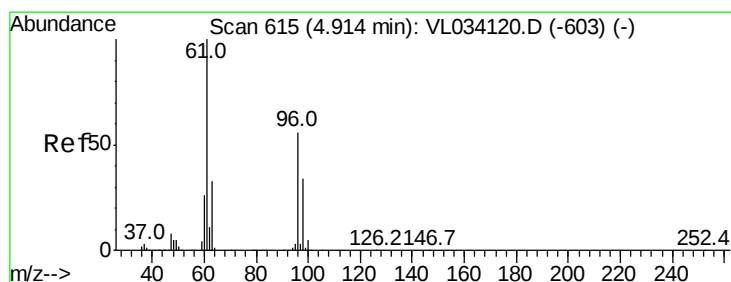
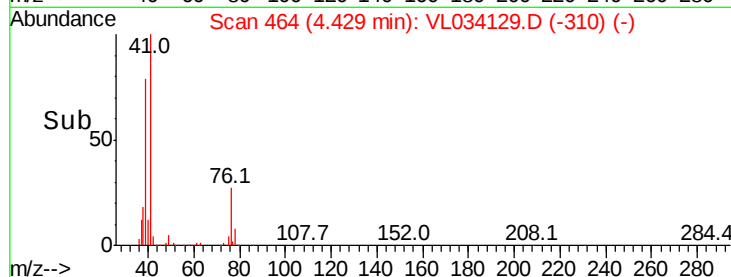
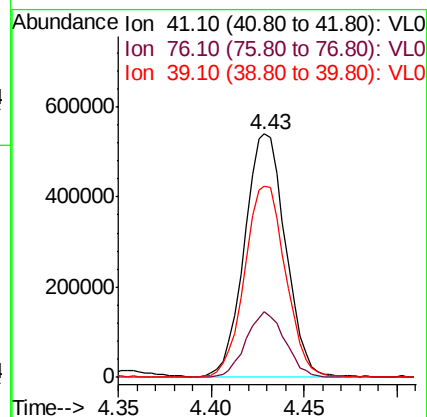
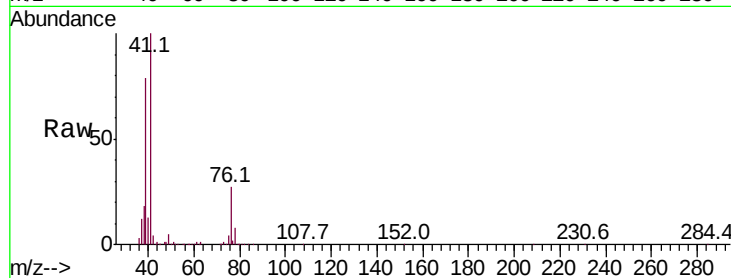
#21
Allvl Chloride
Concen: 9.608 ppbv
RT: 4.43 min Scan# 464
Delta R.T. -0.00 min
Lab File: VL034129.D
Acq: 5 Sep 2019 10:11

Instrument :
MSVOA_L
ClientSampleId :
VL0905ABS01

Tot Ion	Ratio	Resp	Lower	Upper
41	100	821121		
76	26.1	21.6	32.4	
39	79.1	65.0	97.4	

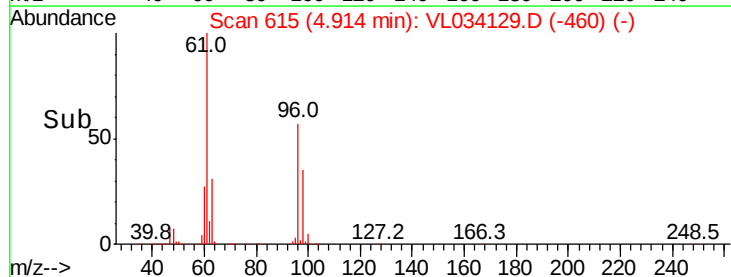
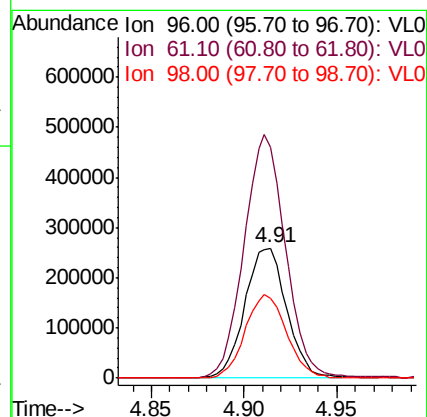
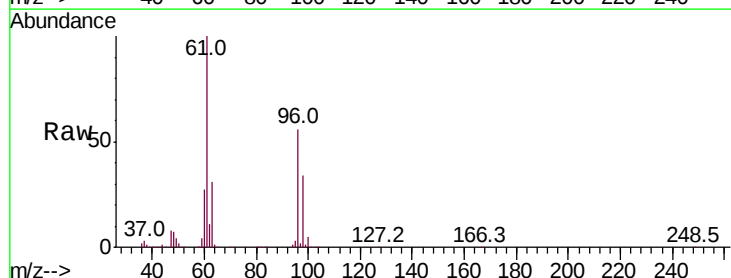
Manual Integrations
APPROVED

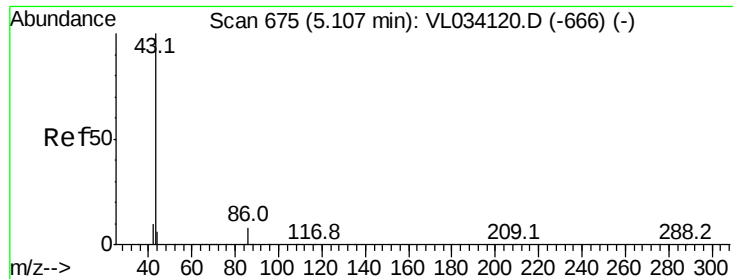
MMDadoda
9/12/2019 5:15:05 AM



#22
trans-1,2-Dichloroethene
Concen: 9.238 ppbv
RT: 4.91 min Scan# 615
Delta R.T. -0.00 min
Lab File: VL034129.D
Acq: 5 Sep 2019 10:11

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	408922		
61	177.0	143.1	214.7	
98	61.0	49.0	73.4	





#23

Vinyl Acetate

Concen: 9.477 ppbv

RT: 5.10 min Scan# 674

Delta R.T. -0.00 min

Lab File: VL034129.D

Acq: 5 Sep 2019 10:11

Instrument :

MSVOA_L

ClientSampleId :

VL0905ABS01

Tot Ion: 43 Resp: 2084220

Ion Ratio Lower Upper

43 100

86 7.3 5.5 8.3

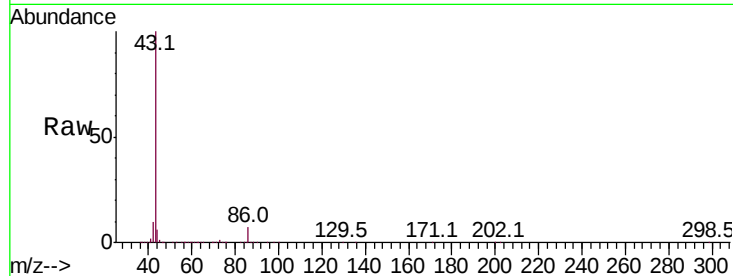
42 10.1 8.2 12.4

44 5.3 4.3 6.5

Manual Integrations
APPROVED

MMDadoda

9/12/2019 5:15:05 AM

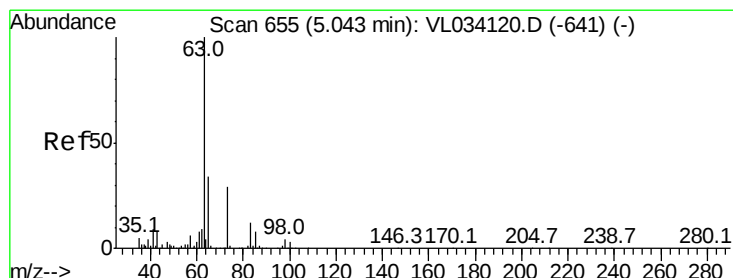
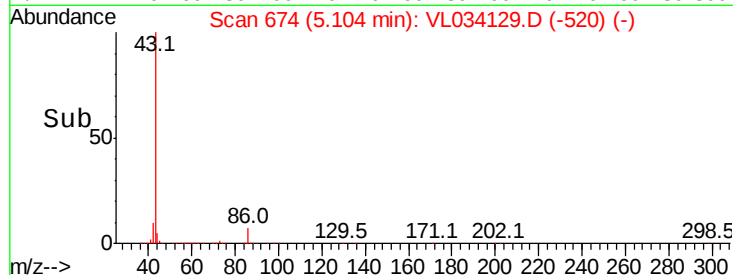
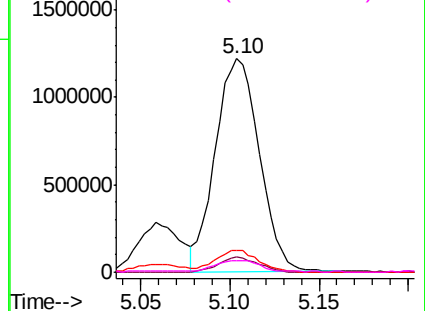


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.151 ppbv

RT: 5.04 min Scan# 654

Delta R.T. -0.00 min

Lab File: VL034129.D

Acq: 5 Sep 2019 10:11

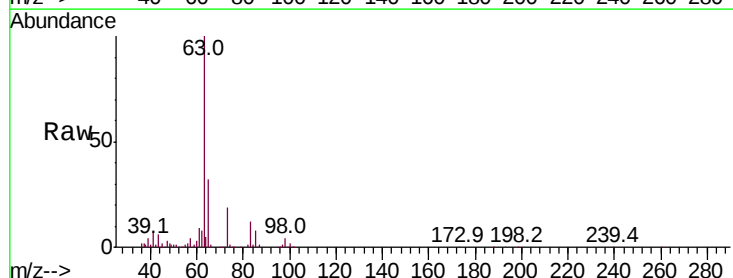
Tgt Ion: 63 Resp: 1335748

Ion Ratio Lower Upper

63 100

98 3.5 2.1 6.2

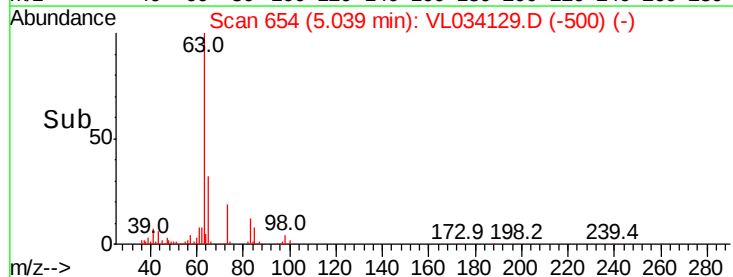
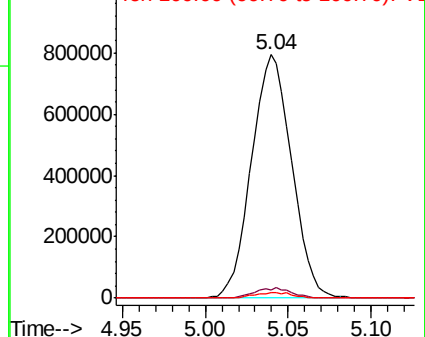
100 2.2 1.4 4.0

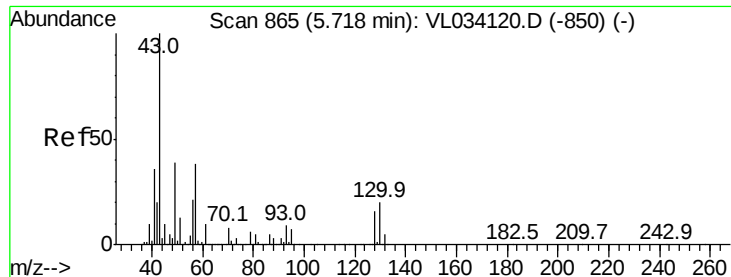


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 8.752 ppbv

RT: 5.72 min Scan# 865

Delta R.T. -0.00 min

Lab File: VL034129.D

Acq: 5 Sep 2019 10:11

Instrument :

MSVOA_L

ClientSampleId :

VL0905ABS01

Tot Ion: 43 Resp: 2490315

Ion Ratio Lower Upper

43 100

45 10.5 8.2 12.4

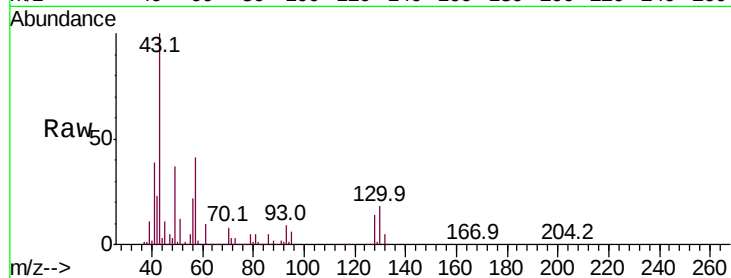
61 9.2 7.4 11.2

70 7.1 5.6 8.4

Manual Integrations
APPROVED

MMDadoda

9/12/2019 5:15:05 AM

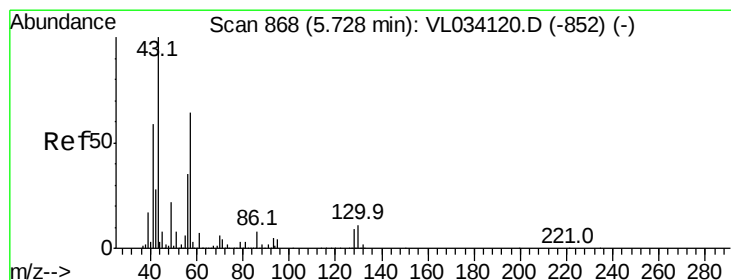
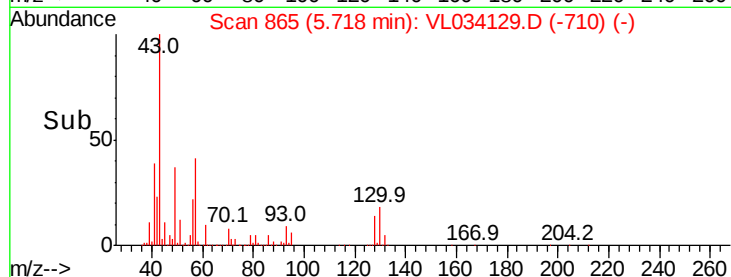
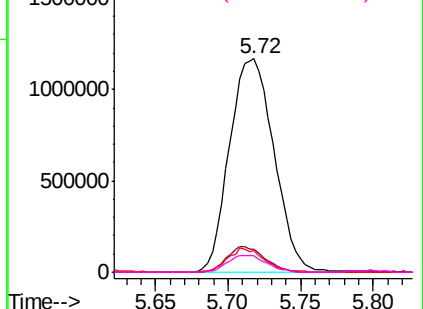


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 8.362 ppbv

RT: 5.72 min Scan# 867

Delta R.T. -0.00 min

Lab File: VL034129.D

Acq: 5 Sep 2019 10:11

Tgt Ion: 57 Resp: 1057930

Ion Ratio Lower Upper

57 100

41 95.0 76.6 115.0

43 237.1 189.2 283.8

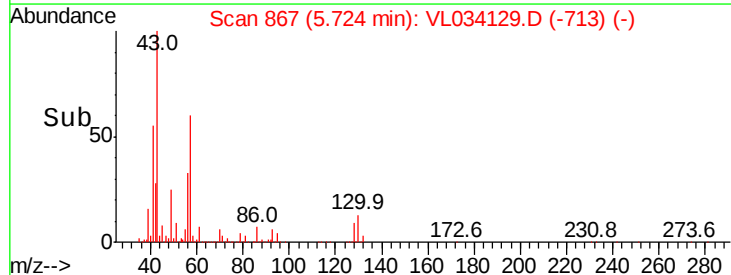
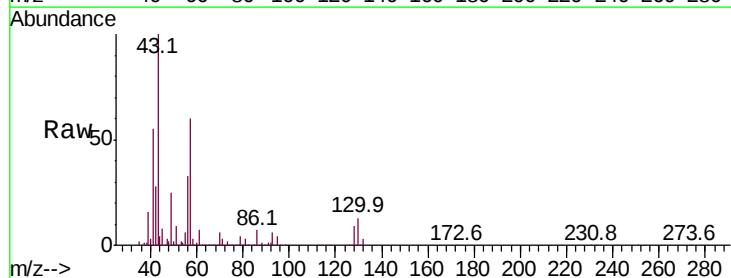
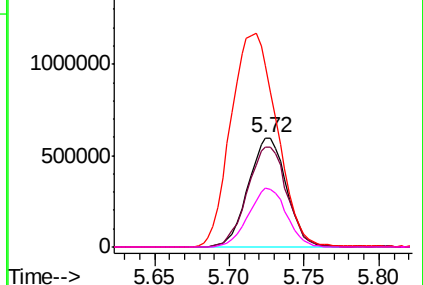
56 53.8 43.0 64.4

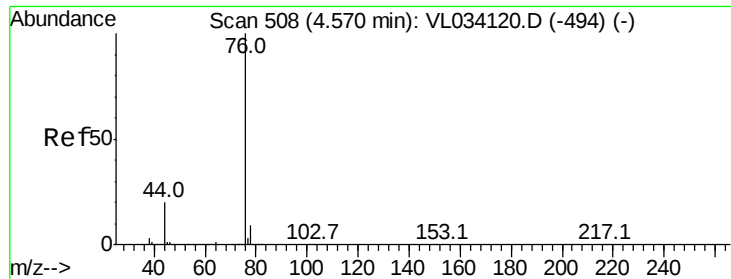
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





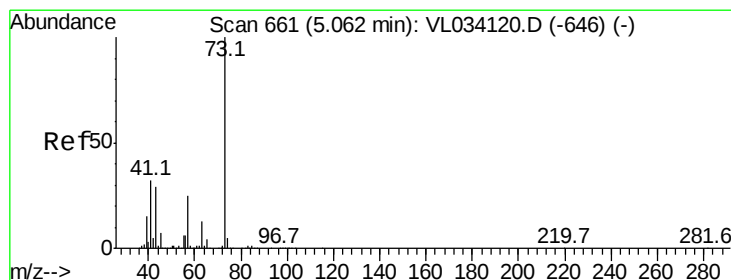
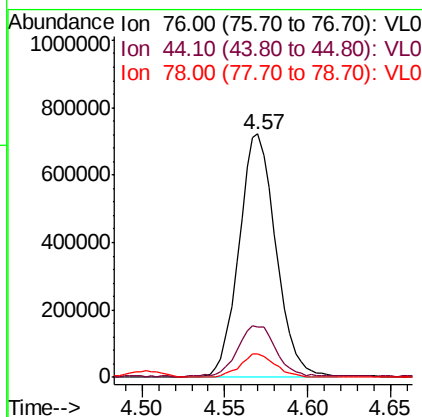
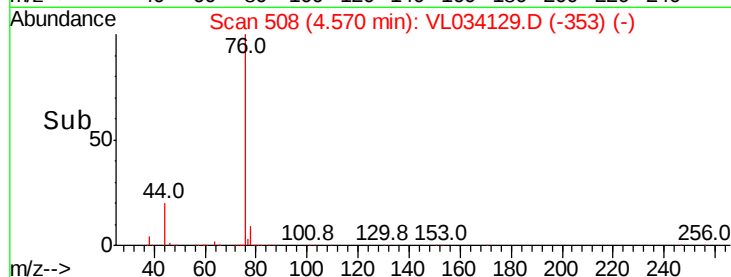
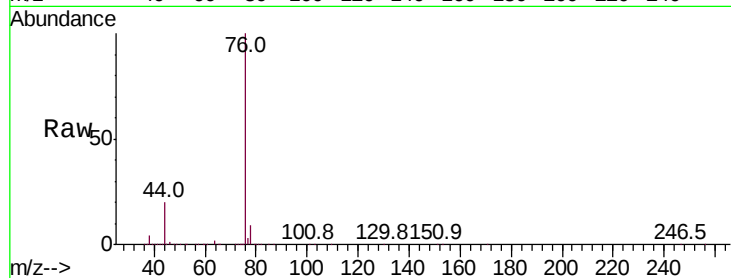
#27
Carbon Disulfide
Concen: 9.790 ppbv
RT: 4.57 min Scan# 508
Delta R.T. -0.00 min
Lab File: VL034129.D
Acq: 5 Sep 2019 10:11

Instrument :
MSVOA_L
ClientSampleId :
VL0905ABS01

Tot Ion	Ratio	Lower	Upper
76	100		
44	22.0	17.6	26.4
78	9.2	7.3	10.9

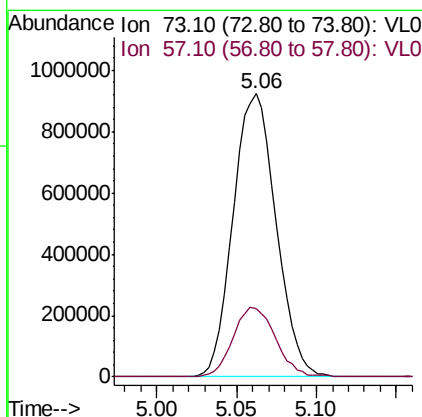
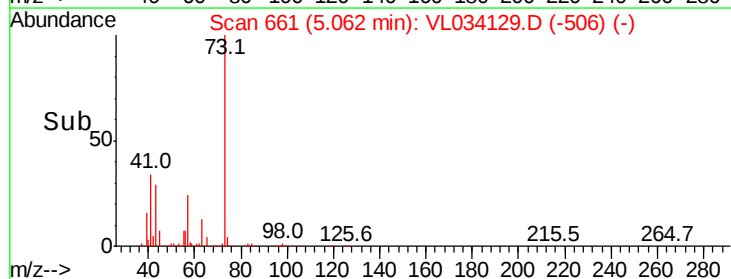
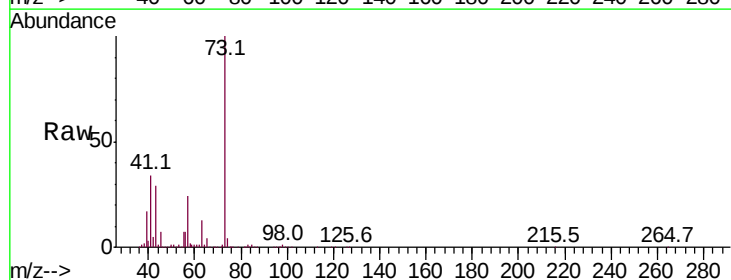
Manual Integrations
APPROVED

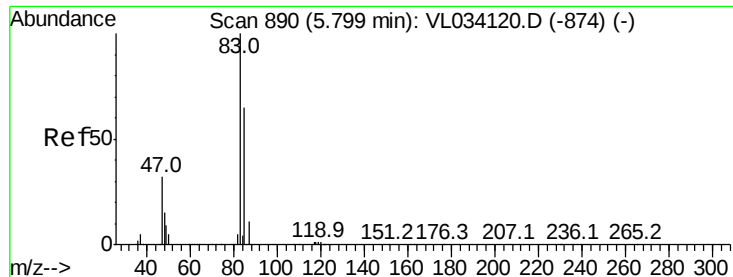
MMDadoda
9/12/2019 5:15:05 AM



#28
Methyl tert-Butyl Ether
Concen: 9.108 ppbv
RT: 5.06 min Scan# 661
Delta R.T. -0.00 min
Lab File: VL034129.D
Acq: 5 Sep 2019 10:11

Tgt Ion	Ratio	Lower	Upper
73	100		
57	24.6	19.8	29.8





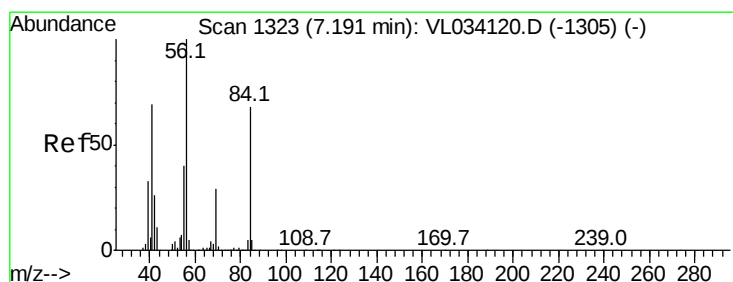
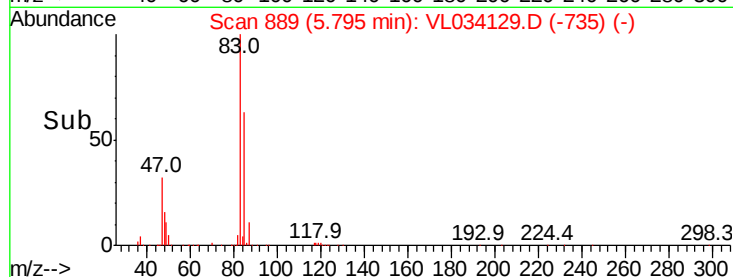
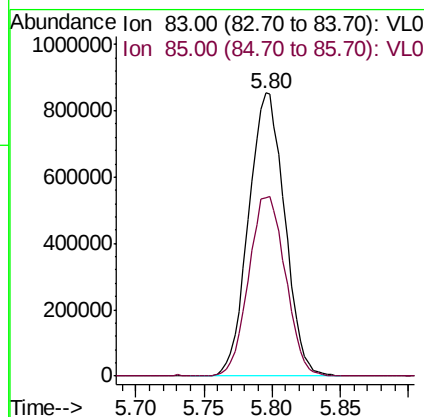
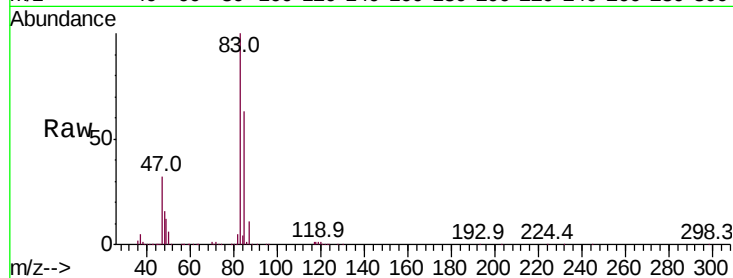
#29
Chloroform
Concen: 9.192 ppbv
RT: 5.80 min Scan# 889
Delta R.T. -0.00 min
Lab File: VL034129.D
Acq: 5 Sep 2019 10:11

Instrument :
MSVOA_L
ClientSampleId :
VL0905ABS01

Tot Ion: 83 Resp: 1568557
Ion Ratio Lower Upper
83 100
85 63.1 51.8 77.6

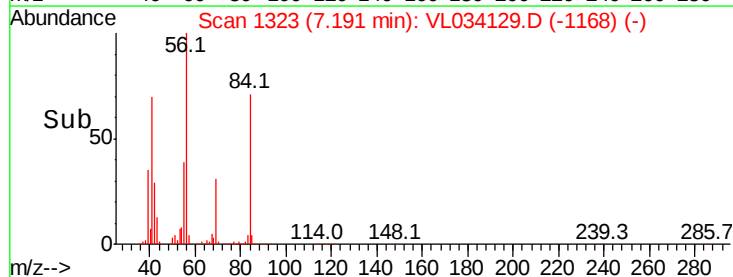
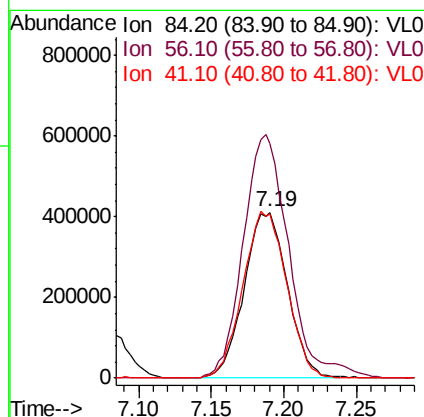
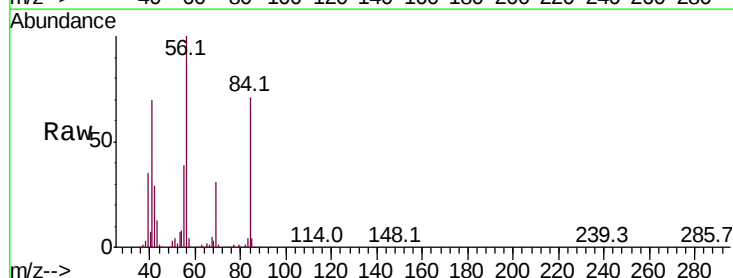
Manual Integrations
APPROVED

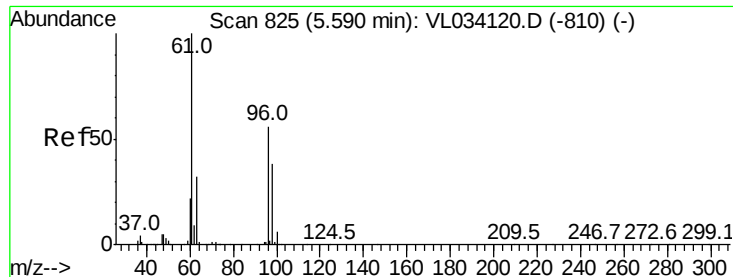
MMDadoda
9/12/2019 5:15:05 AM



#30
Cyclohexane
Concen: 9.353 ppbv
RT: 7.19 min Scan# 1323
Delta R.T. -0.00 min
Lab File: VL034129.D
Acq: 5 Sep 2019 10:11

Tgt Ion: 84 Resp: 855492
Ion Ratio Lower Upper
84 100
56 155.2 122.6 183.8
41 101.8 79.1 118.7





#31

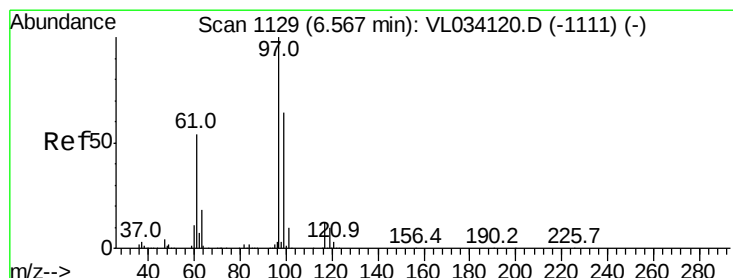
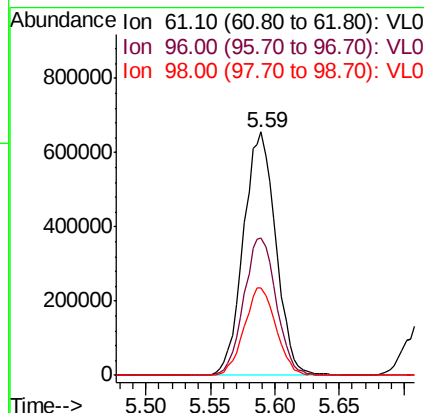
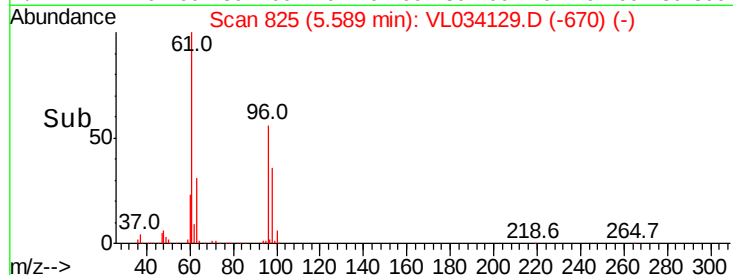
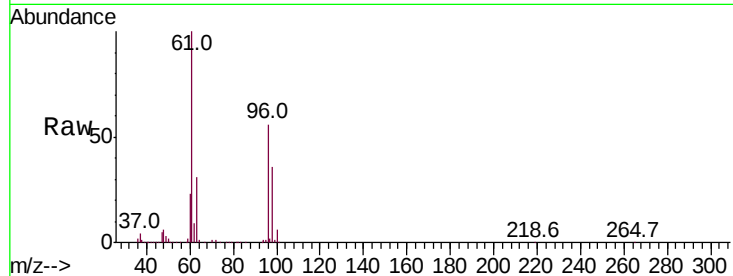
cis-1,2-Dichloroethene
Concen: 9.450 ppbv
RT: 5.59 min Scan# 825
Delta R.T. -0.00 min
Lab File: VL034129.D
Acq: 5 Sep 2019 10:11

Instrument :
MSVOA_L
ClientSampleId :
VL0905ABS01

Tot Ion	Ratio	Lower	Upper
61	100		
96	56.2	44.4	66.6
98	36.0	30.0	45.0

Manual Integrations
APPROVED

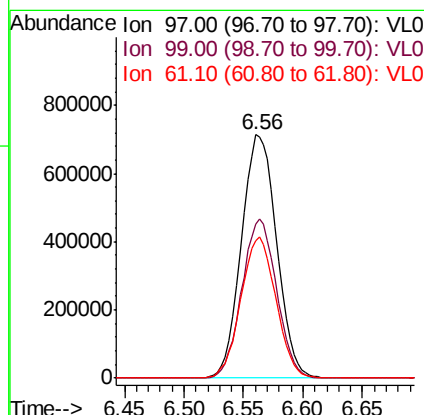
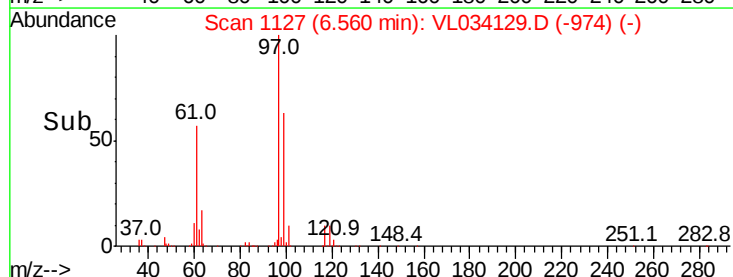
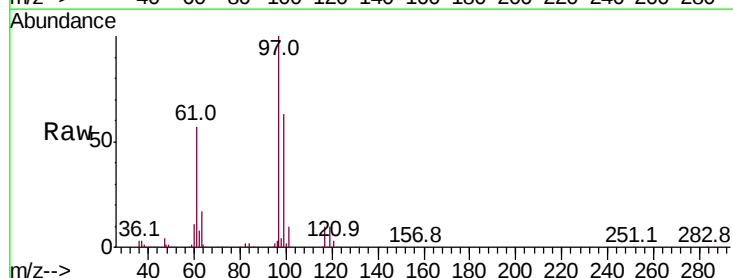
MMDadoda
9/12/2019 5:15:05 AM

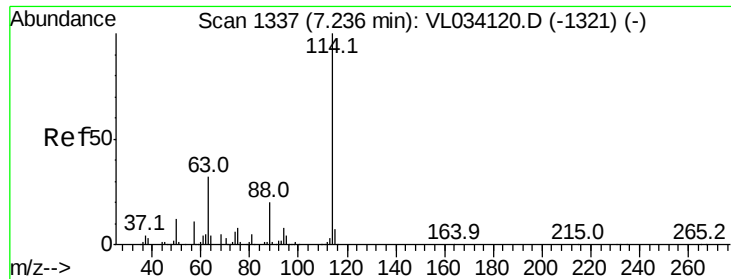


#32

1,1,1-Trichloroethane
Concen: 9.083 ppbv
RT: 6.56 min Scan# 1127
Delta R.T. -0.01 min
Lab File: VL034129.D
Acq: 5 Sep 2019 10:11

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.7	77.5
61	57.9	44.0	66.0





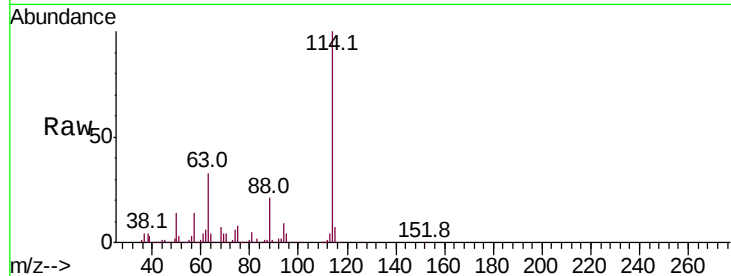
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.24 min Scan# 1337
 Delta R.T. -0.00 min
 Lab File: VL034129.D
 Acq: 5 Sep 2019 10:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0905ABS01

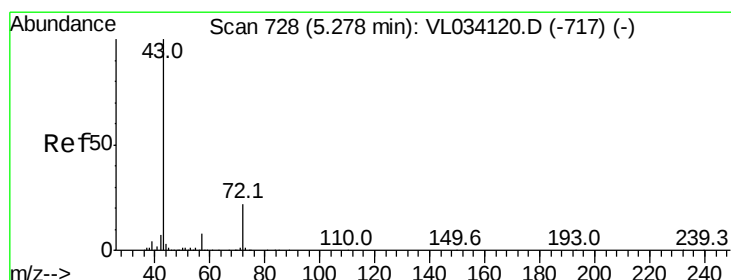
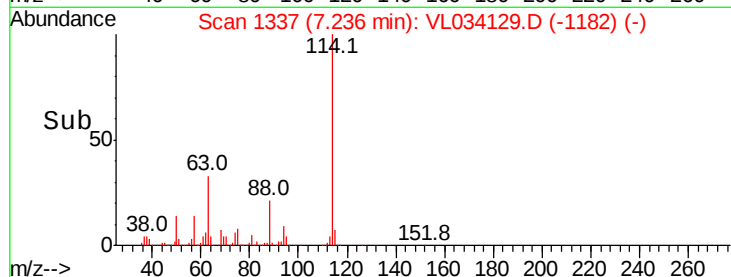
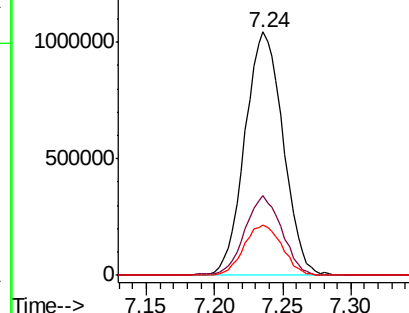
Tot Ion	Ratio	Lower	Upper
114	100		
63	32.1	25.5	38.3
88	20.8	16.8	25.2

Manual Integrations
 APPROVED

MMDadoda
 9/12/2019 5:15:05 AM

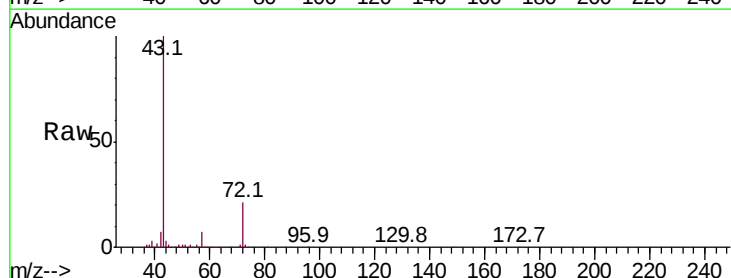


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

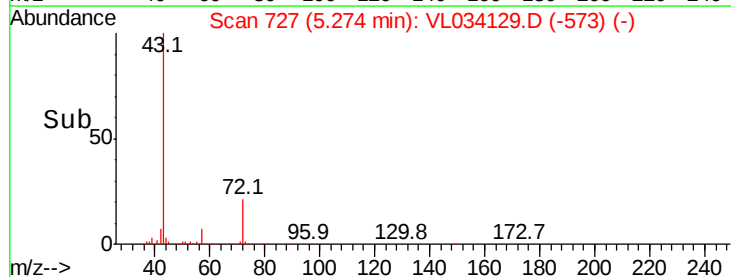
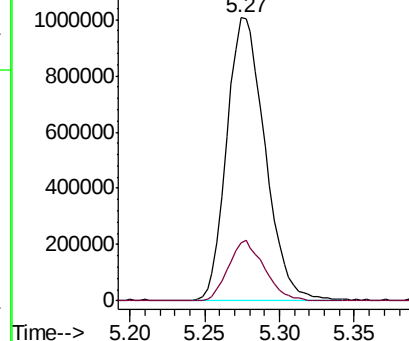


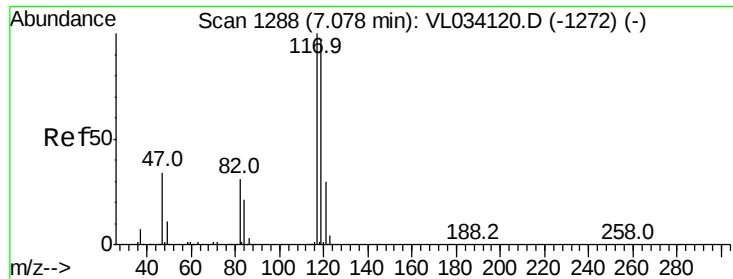
#34
 2-Butanone
 Concen: 9.163 ppbv
 RT: 5.27 min Scan# 727
 Delta R.T. -0.00 min
 Lab File: VL034129.D
 Acq: 5 Sep 2019 10:11

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.2	16.5	24.7



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 9.017 ppbv

RT: 7.07 min Scan# 1287

Delta R.T. -0.00 min

Lab File: VL034129.D

Acq: 5 Sep 2019 10:11

Instrument :

MSVOA_L

ClientSampleId :

VL0905ABS01

Tot Ion:117 Resp: 1426683

Ion Ratio Lower Upper

117 100

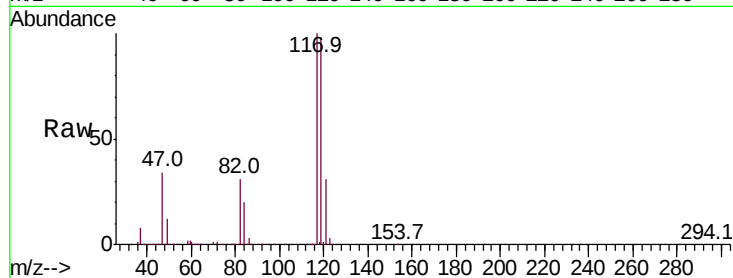
119 98.4 77.2 115.8

121 30.9 24.2 36.4

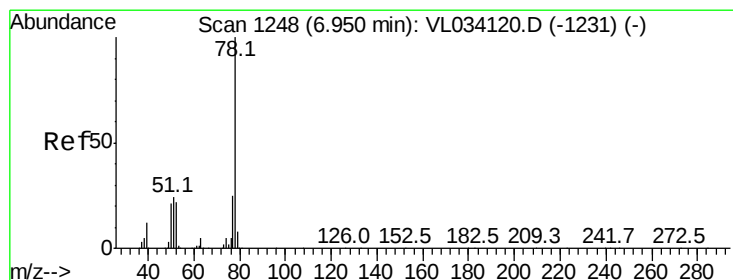
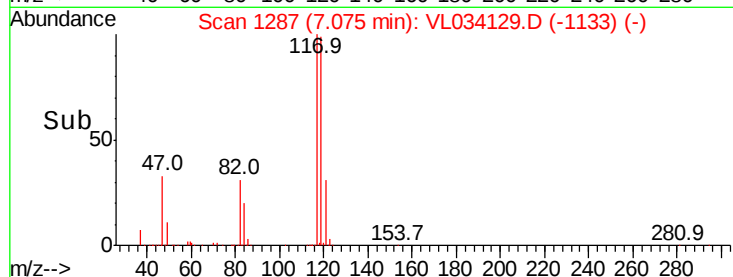
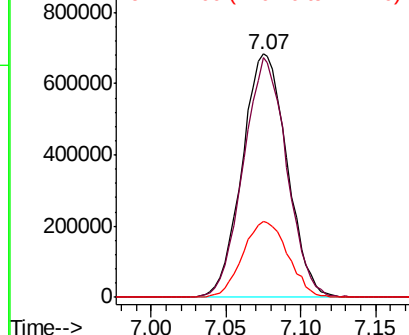
Manual Integrations
APPROVED

MMDadoda

9/12/2019 5:15:05 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: 9.055 ppbv

RT: 6.95 min Scan# 1247

Delta R.T. -0.00 min

Lab File: VL034129.D

Acq: 5 Sep 2019 10:11

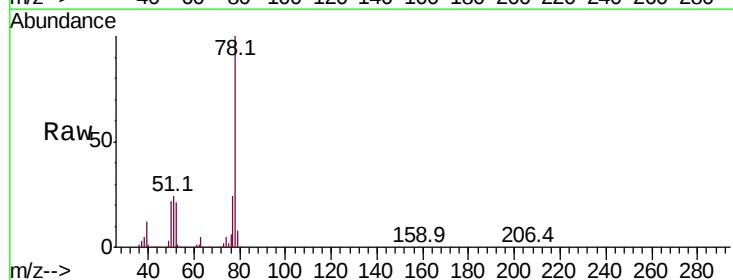
Tgt Ion: 78 Resp: 2100380

Ion Ratio Lower Upper

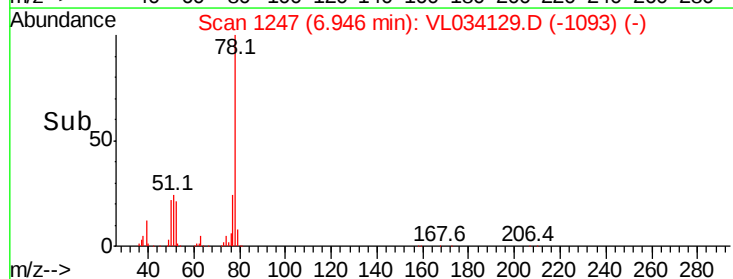
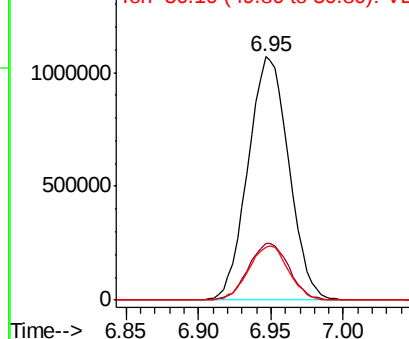
78 100

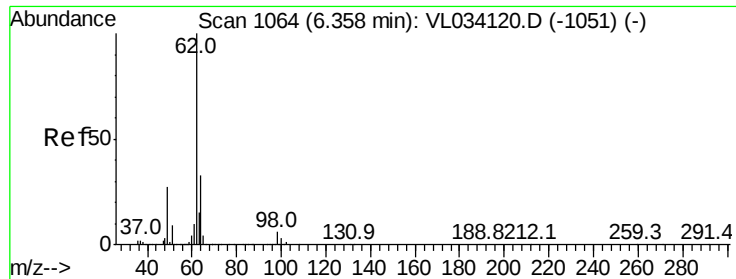
77 23.6 20.3 30.5

50 21.8 16.9 25.3



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





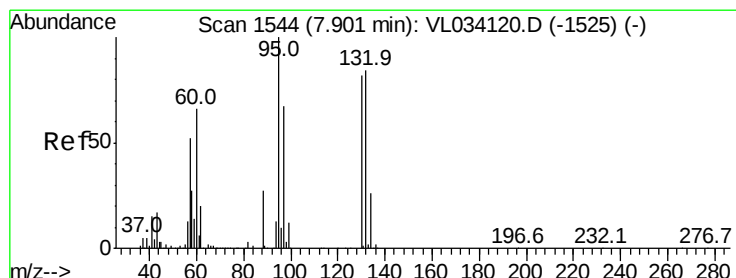
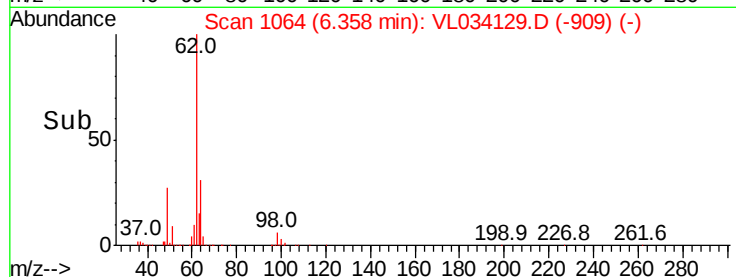
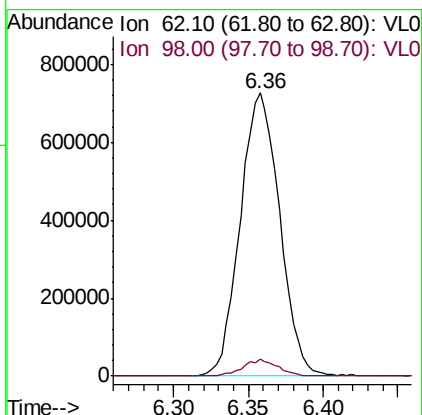
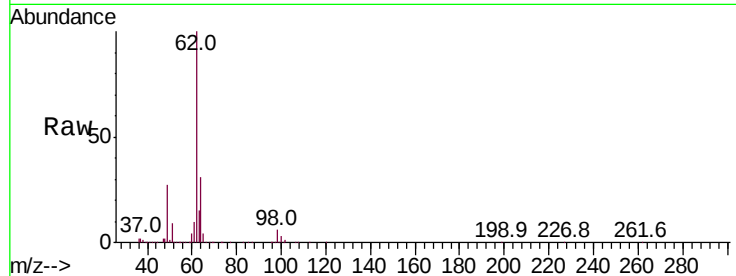
#37
 1,2-Dichloroethane
 Concen: 9.362 ppbv
 RT: 6.36 min Scan# 1064
 Delta R.T. -0.00 min
 Lab File: VL034129.D
 Acq: 5 Sep 2019 10:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0905ABS01

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.3	4.4	6.6

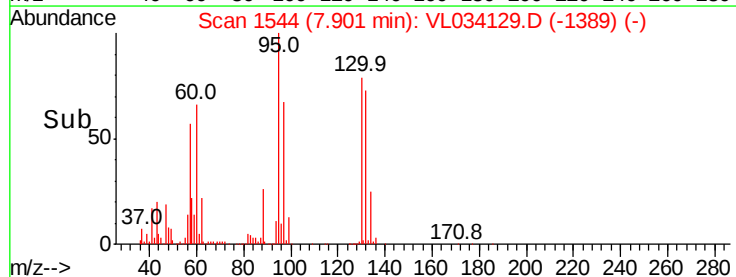
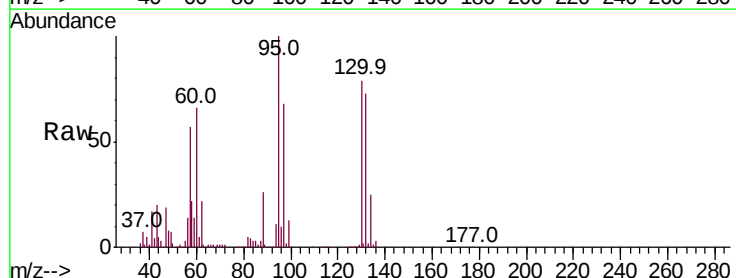
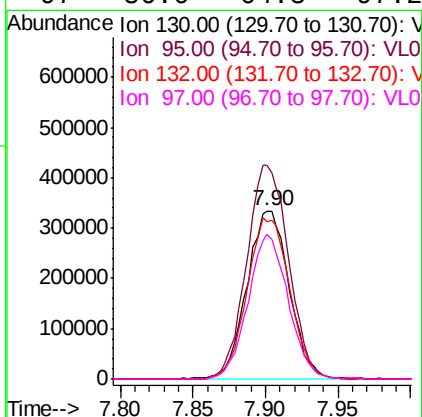
Manual Integrations
 APPROVED

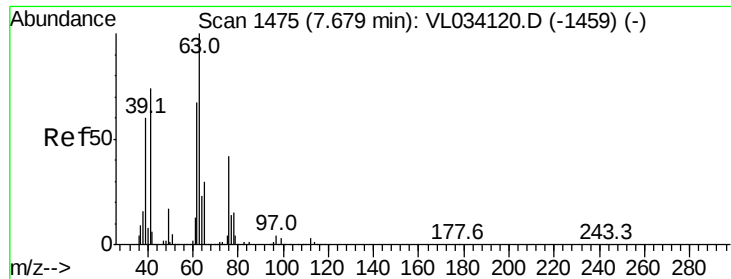
MMDadoda
 9/12/2019 5:15:05 AM



#38
 Trichloroethene
 Concen: 7.780 ppbv
 RT: 7.90 min Scan# 1544
 Delta R.T. -0.00 min
 Lab File: VL034129.D
 Acq: 5 Sep 2019 10:11

Tgt Ion	Ratio	Lower	Upper
130	100		
95	127.3	97.2	145.8
132	93.4	81.4	122.2
97	86.0	64.8	97.2





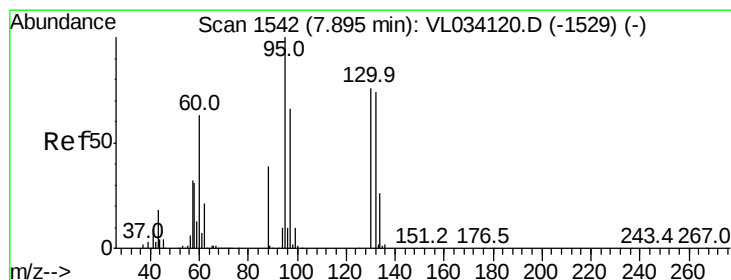
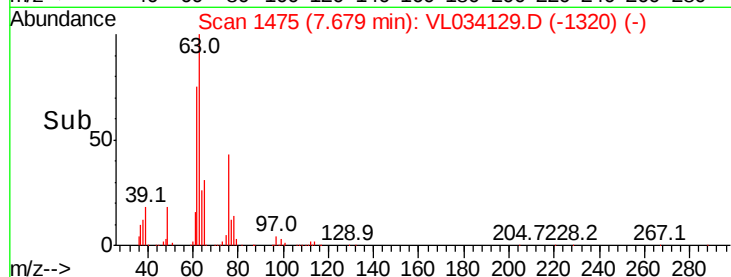
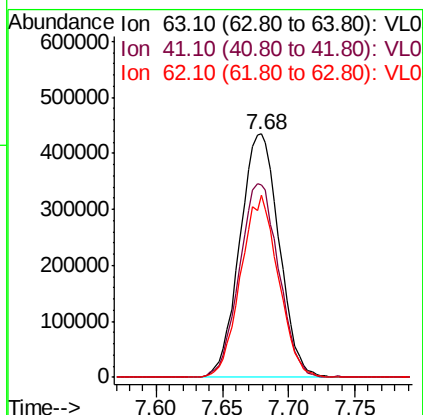
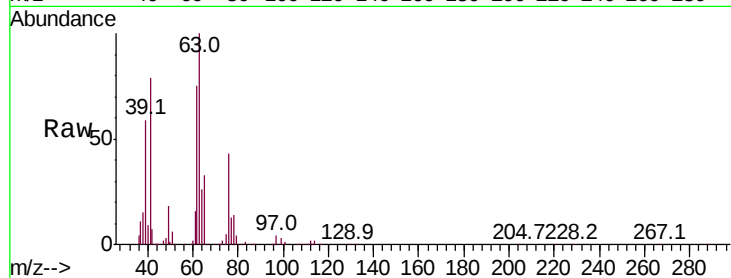
#39
 1,2-Dichloropropane
 Concen: 9.011 ppbv
 RT: 7.68 min Scan# 1475
 Delta R.T. -0.00 min
 Lab File: VL034129.D
 Acq: 5 Sep 2019 10:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0905ABS01

Tot Ion	Ratio	Lower	Upper
63	100		
41	78.8	59.3	88.9
62	74.9	53.8	80.6

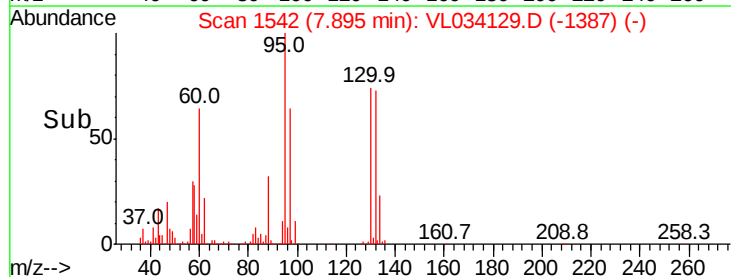
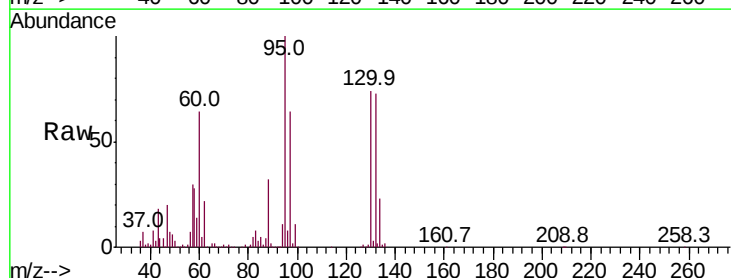
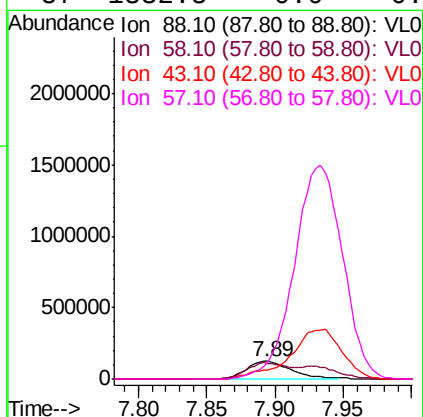
Manual Integrations
 APPROVED

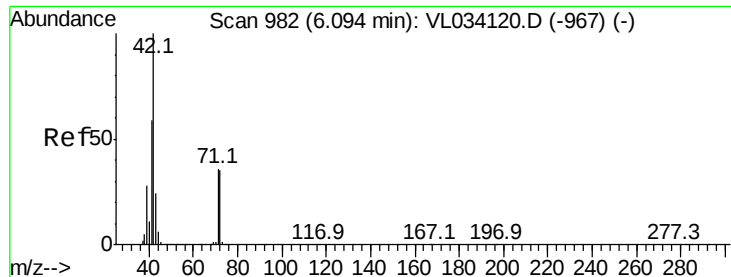
MMDadoda
 9/12/2019 5:15:05 AM



#40
 1,4-Dioxane
 Concen: 7.619 ppbv
 RT: 7.89 min Scan# 1542
 Delta R.T. -0.00 min
 Lab File: VL034129.D
 Acq: 5 Sep 2019 10:11

Tgt Ion	Ratio	Lower	Upper
88	100		
58	148.8	121.7	182.5
43	331.1	0.0	0.0#
57	1332.8	0.0	0.0#





#41

Tetrahydrofuran

Concen: 9.448 ppbv

RT: 6.09 min Scan# 981

Delta R.T. -0.00 min

Lab File: VL034129.D

Acq: 5 Sep 2019 10:11

Instrument :

MSVOA_L

ClientSampleId :

VL0905ABS01

Tot Ion: 42 Resp: 1105097

Ion Ratio Lower Upper

42 100

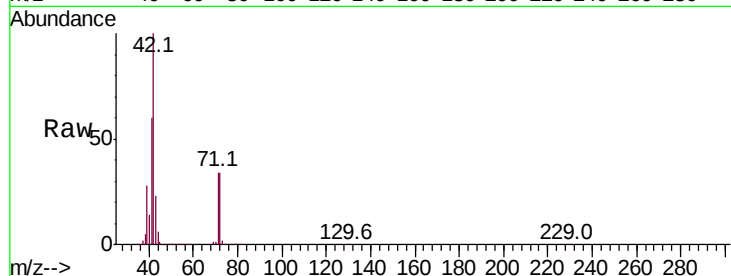
72 32.9 27.7 41.5

71 32.9 26.7 40.1

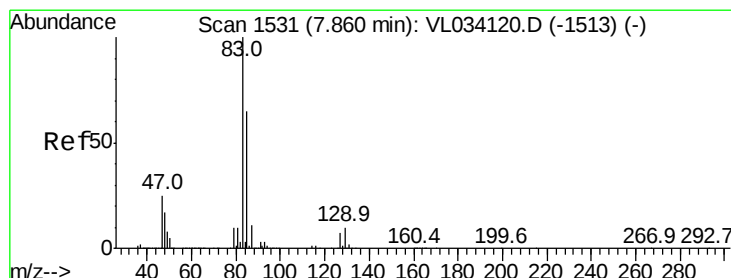
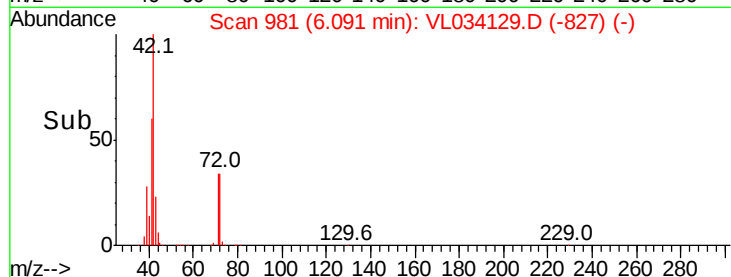
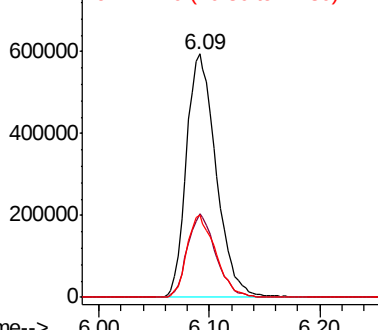
Manual Integrations
APPROVED

MMDadoda

9/12/2019 5:15:05 AM



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 9.349 ppbv

RT: 7.86 min Scan# 1531

Delta R.T. -0.00 min

Lab File: VL034129.D

Acq: 5 Sep 2019 10:11

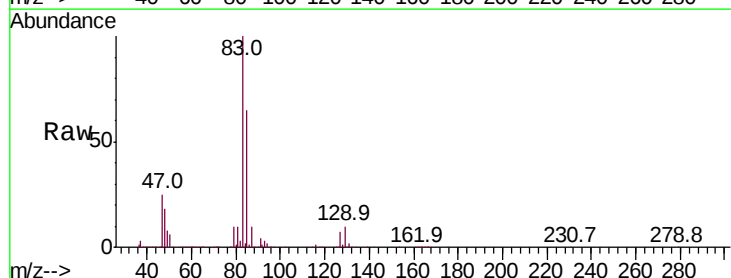
Tgt Ion: 83 Resp: 1733835

Ion Ratio Lower Upper

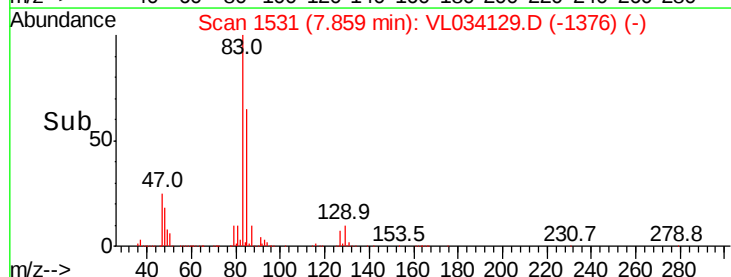
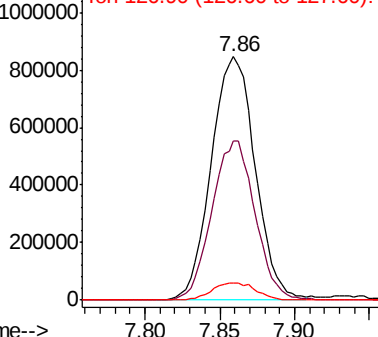
83 100

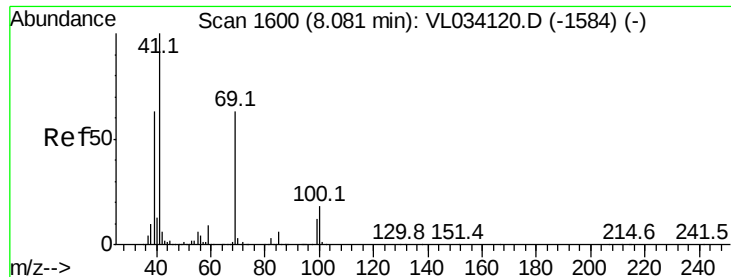
85 65.3 51.6 77.4

127 7.0 5.4 8.0



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V





#43

Methyl Methacrylate

Concen: 9.418 ppbv

RT: 8.08 min Scan# 1599

Delta R.T. -0.00 min

Lab File: VL034129.D

Acq: 5 Sep 2019 10:11

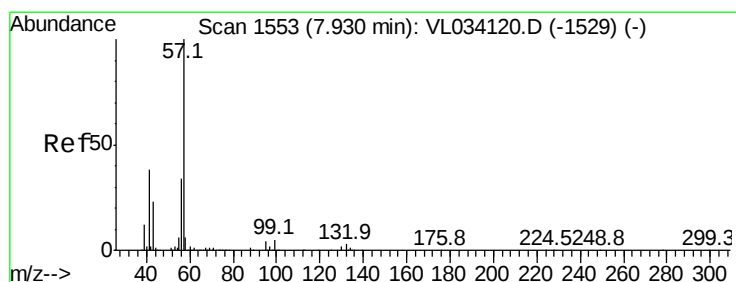
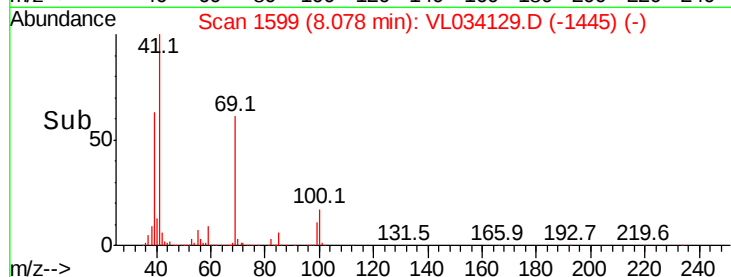
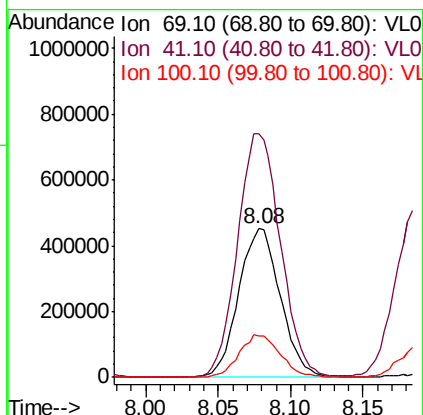
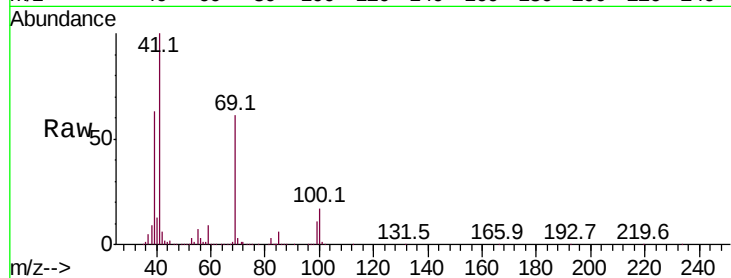
Instrument :
MSVOA_L

ClientSampleID :
VL0905ABS01

Tot Ion	Ratio	Lower	Upper
69	100		
41	169.5	131.0	196.6
100	28.3	22.6	33.8

Manual Integrations
APPROVED

MMDadoda
9/12/2019 5:15:05 AM



#44

2,2,4-Trimethylpentane

Concen: 8.649 ppbv

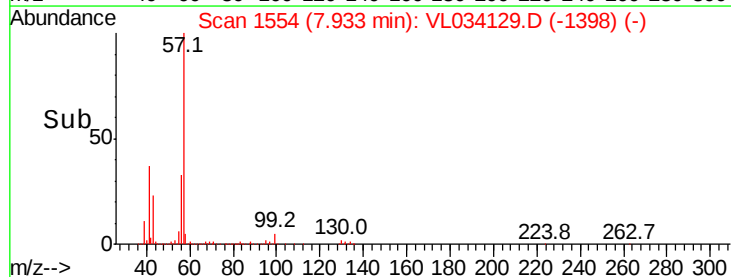
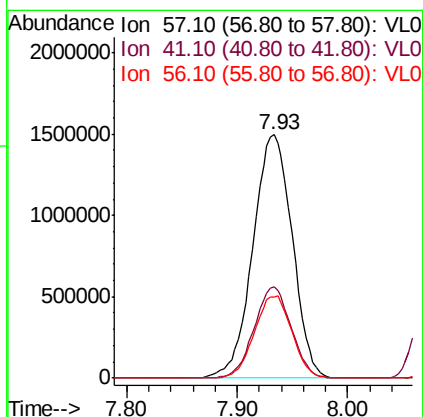
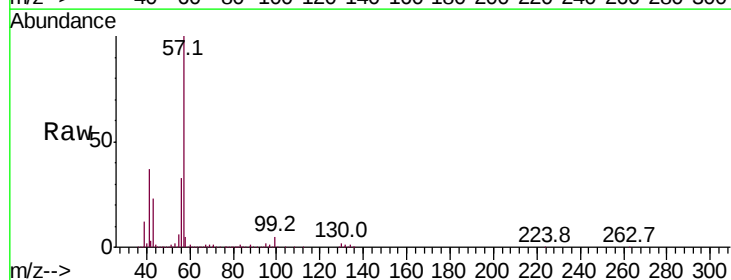
RT: 7.93 min Scan# 1554

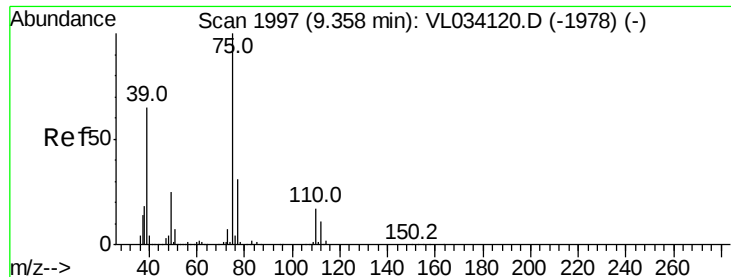
Delta R.T. 0.00 min

Lab File: VL034129.D

Acq: 5 Sep 2019 10:11

Tgt Ion	Ratio	Lower	Upper
57	100		
41	35.2	28.4	42.6
56	32.2	26.3	39.5





#45

t-1,3-Dichloropropene

Concen: 10.538 ppbv

RT: 9.35 min Scan# 1996

Delta R.T. -0.00 min

Lab File: VL034129.D

Acq: 5 Sep 2019 10:11

Instrument :

MSVOA_L

ClientSampleId :

VL0905ABS01

Tot Ion: 75 Resp: 1183540

Ion Ratio Lower Upper

75 100

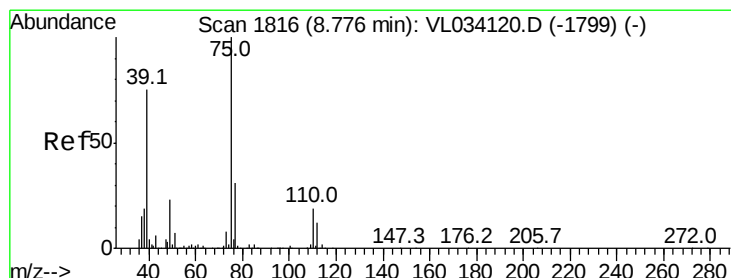
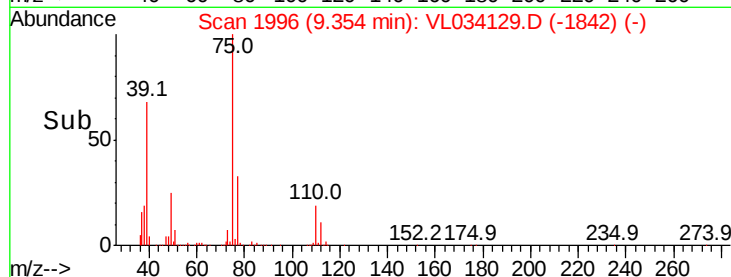
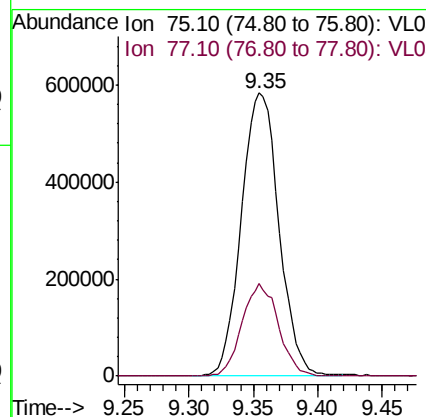
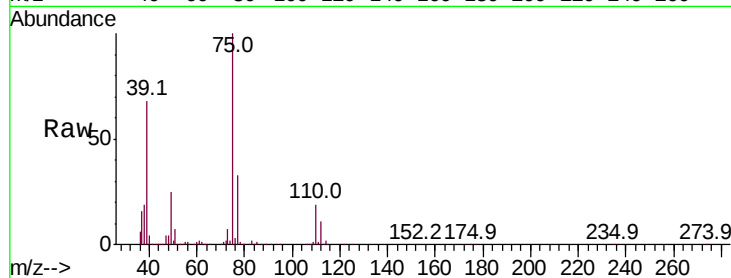
77 32.6 24.6 36.8

Manual Integrations

APPROVED

MMDadoda

9/12/2019 5:15:05 AM



#46

cis-1,3-Dichloropropene

Concen: 9.751 ppbv

RT: 8.78 min Scan# 1816

Delta R.T. -0.00 min

Lab File: VL034129.D

Acq: 5 Sep 2019 10:11

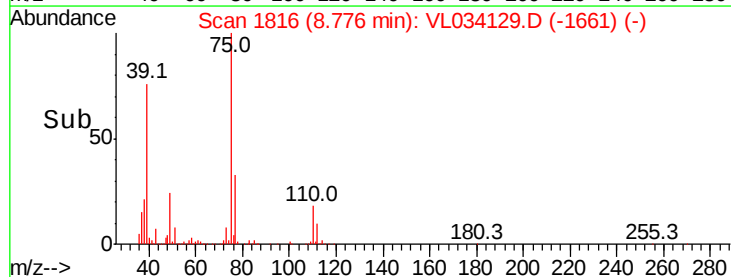
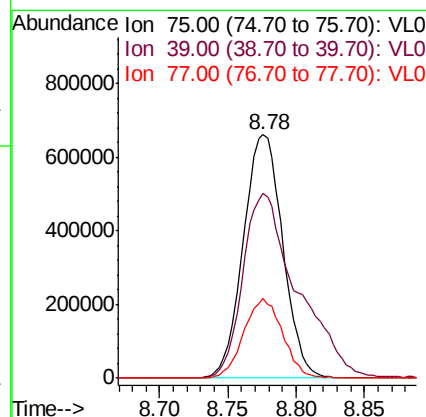
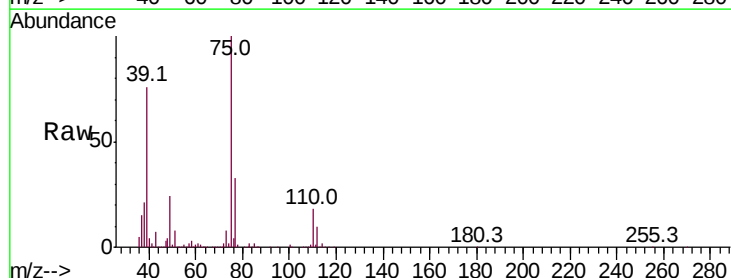
Tgt Ion: 75 Resp: 1332329

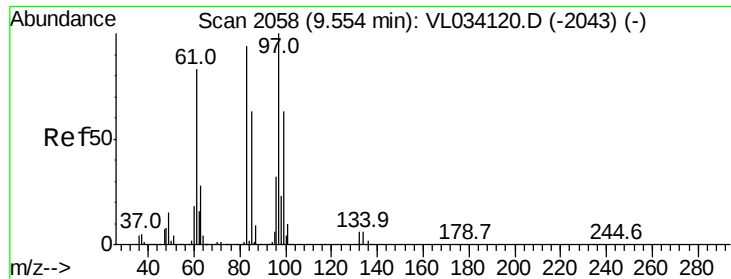
Ion Ratio Lower Upper

75 100

39 75.7 60.0 90.0

77 32.6 24.8 37.2





#47

1,1,2-Trichloroethane

Concen: 9.152 ppbv

RT: 9.55 min Scan# 2057

Delta R.T. -0.00 min

Lab File: VL034129.D

Acq: 5 Sep 2019 10:11

Instrument :

MSVOA_L

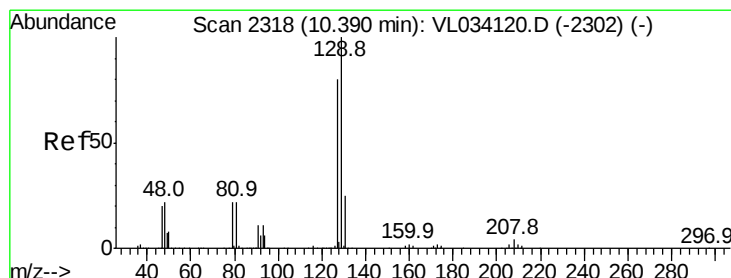
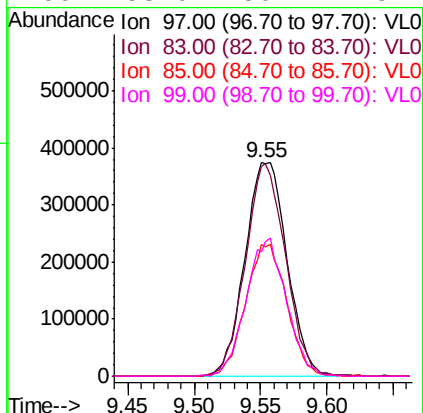
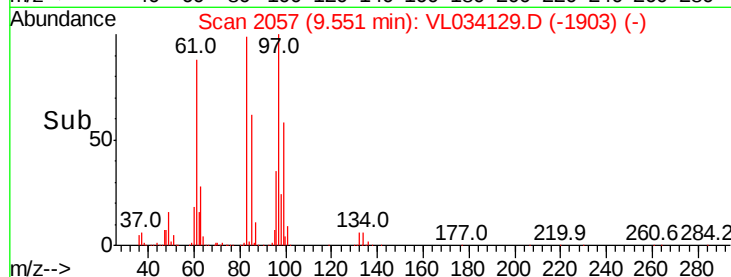
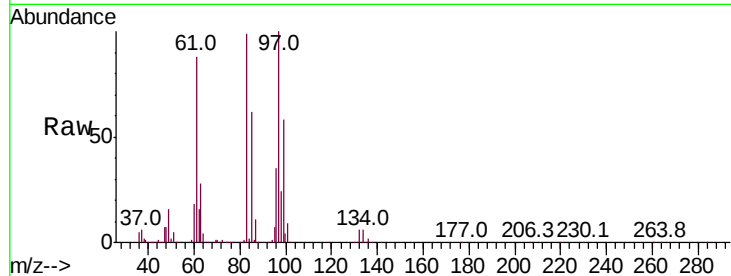
ClientSampleId :

VL0905ABS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	98.6	74.9	112.3
85	61.9	50.6	75.8
99	58.0	50.2	75.2

Manual Integrations
APPROVED

MMDadoda
9/12/2019 5:15:05 AM



#48

Dibromochloromethane

Concen: 9.728 ppbv

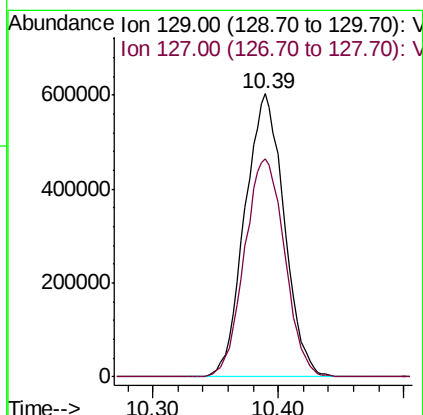
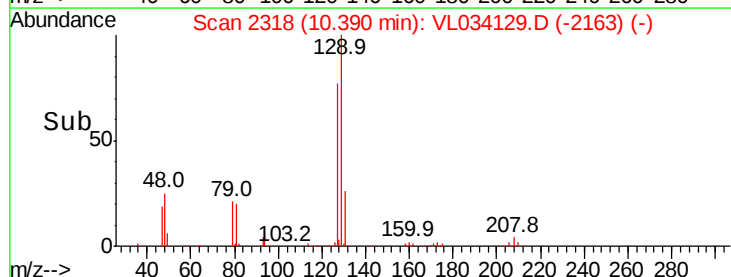
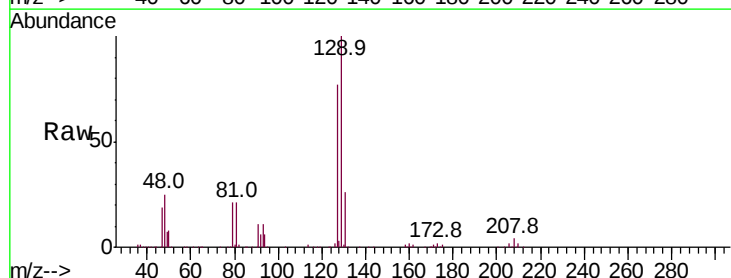
RT: 10.39 min Scan# 2318

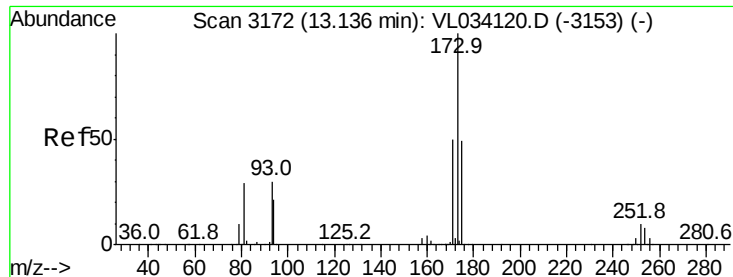
Delta R.T. -0.00 min

Lab File: VL034129.D

Acq: 5 Sep 2019 10:11

Tgt Ion	Ratio	Lower	Upper
129	100		
127	79.1	40.2	120.6





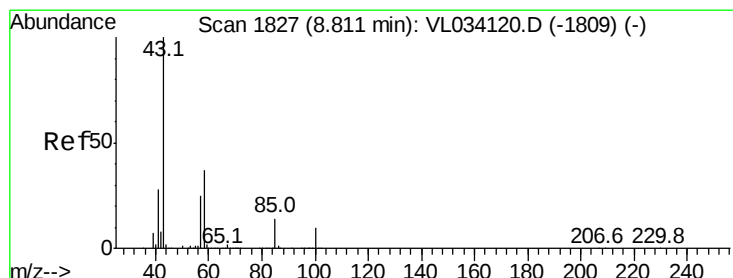
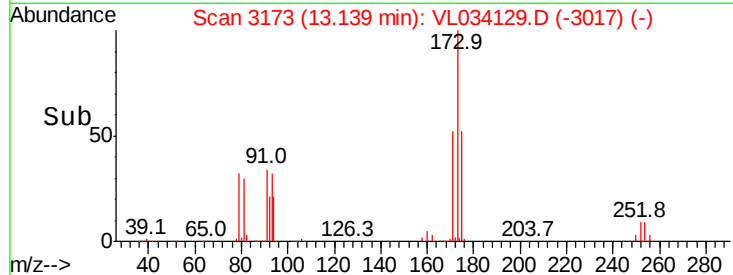
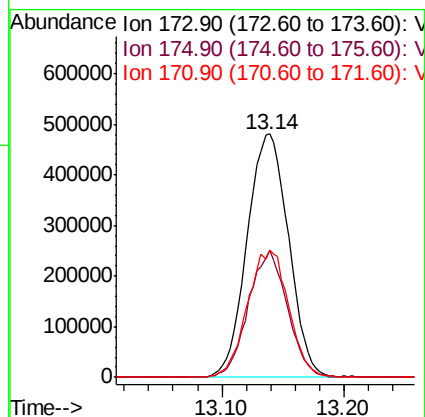
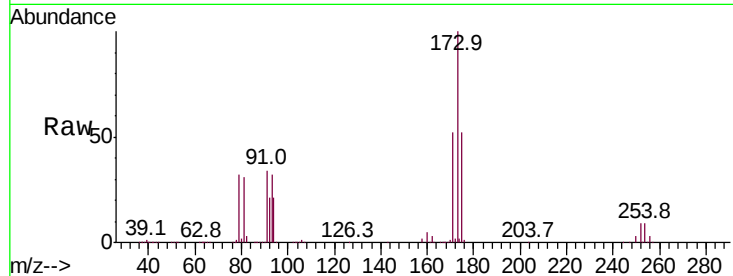
#49
Bromoform
Concen: 9.551 ppbv
RT: 13.14 min Scan# 3173
Delta R.T. 0.00 min
Lab File: VL034129.D
Acq: 5 Sep 2019 10:11

Instrument :
MSVOA_L
ClientSampleId :
VL0905ABS01

Tot Ion:173 Resp: 1130015
Ion Ratio Lower Upper
173 100
175 49.2 40.0 60.0
171 52.0 42.2 63.2

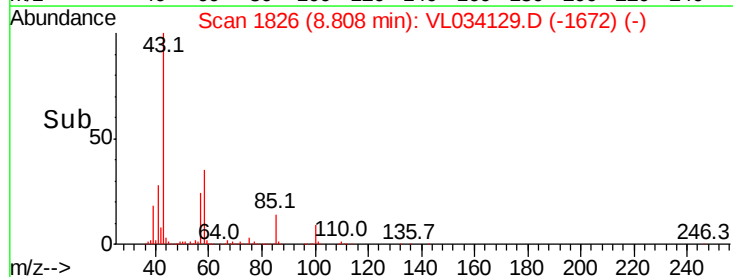
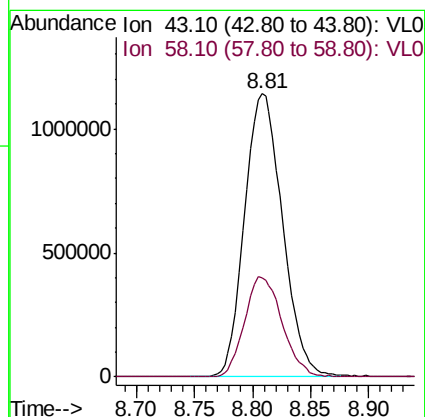
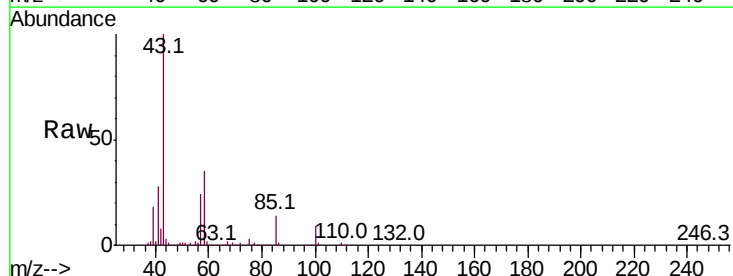
Manual Integrations
APPROVED

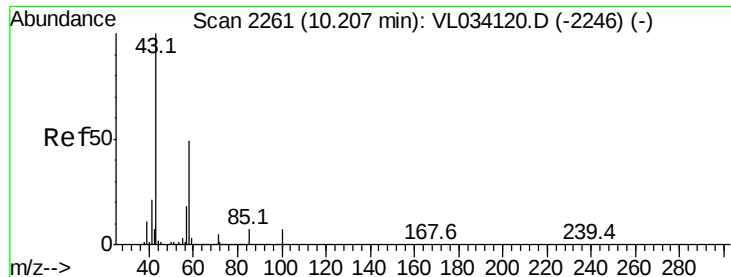
MMDadoda
9/12/2019 5:15:05 AM



#50
4-Methyl-2-Pentanone
Concen: 8.744 ppbv
RT: 8.81 min Scan# 1826
Delta R.T. -0.00 min
Lab File: VL034129.D
Acq: 5 Sep 2019 10:11

Tgt Ion: 43 Resp: 2603209
Ion Ratio Lower Upper
43 100
58 35.2 28.5 42.7





#51

2-Hexanone

Concen: 8.841 ppbv

RT: 10.21 min Scan# 2262

Delta R.T. 0.00 min

Lab File: VL034129.D

Acq: 5 Sep 2019 10:11

Instrument :

MSVOA_L

ClientSampleId :

VL0905ABS01

Tot Ion: 43 Resp: 2273678

Ion Ratio Lower Upper

43 100

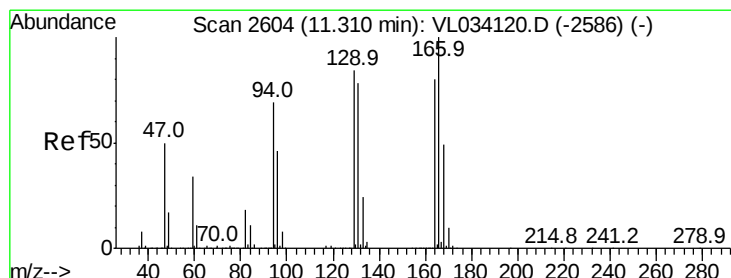
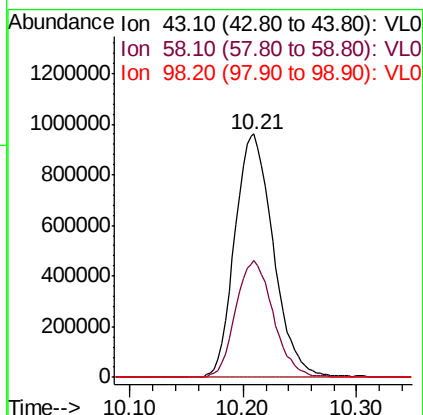
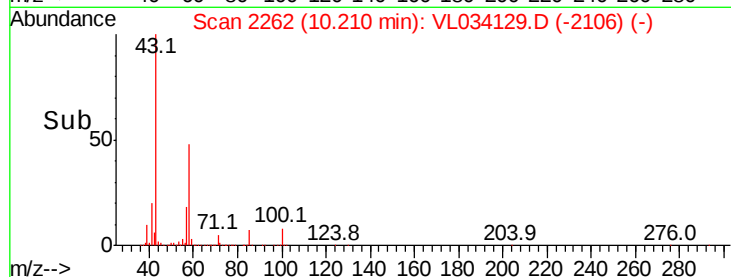
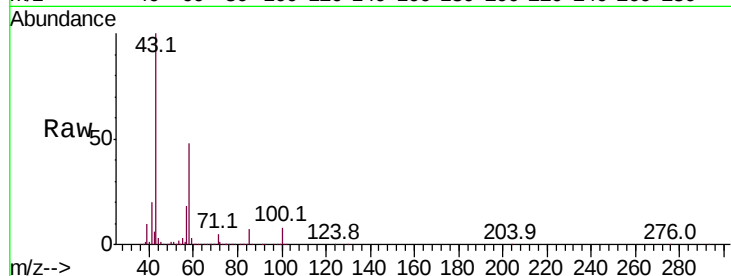
58 47.1 38.2 57.2

98 0.1 0.1 0.1

Manual Integrations
APPROVED

MMDadoda

9/12/2019 5:15:05 AM



#52

Tetrachloroethene

Concen: 8.152 ppbv

RT: 11.31 min Scan# 2604

Delta R.T. -0.00 min

Lab File: VL034129.D

Acq: 5 Sep 2019 10:11

Tgt Ion: 164 Resp: 666797

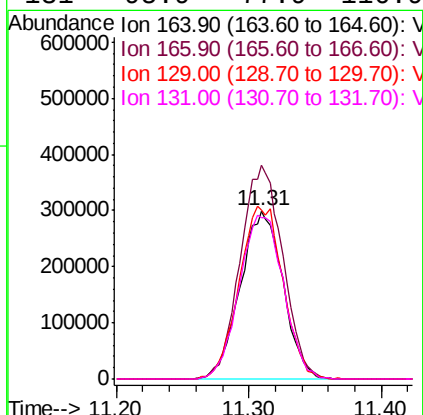
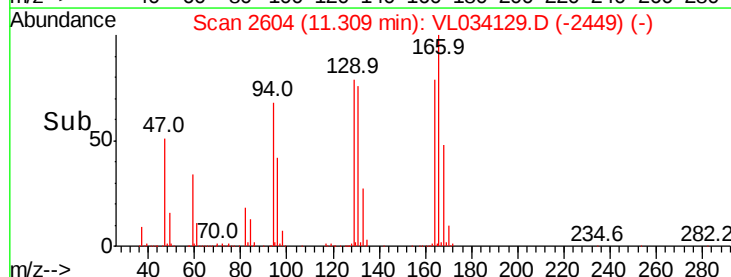
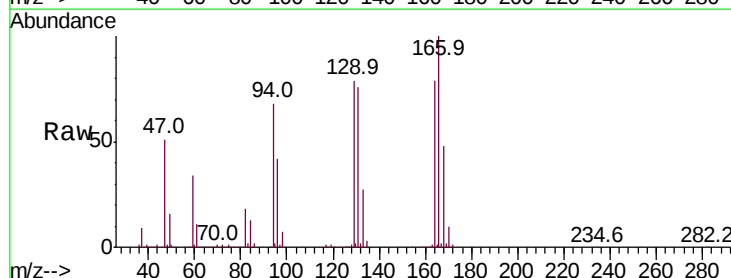
Ion Ratio Lower Upper

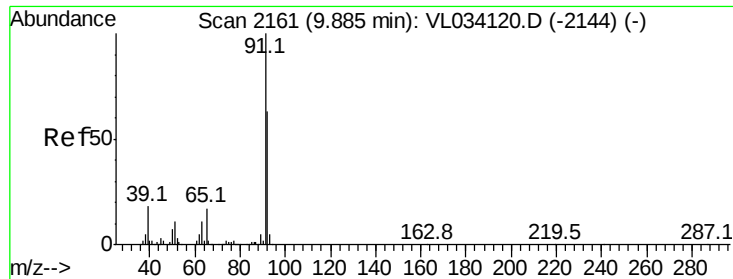
164 100

166 126.9 99.5 149.3

129 100.6 83.6 125.4

131 95.9 77.9 116.9





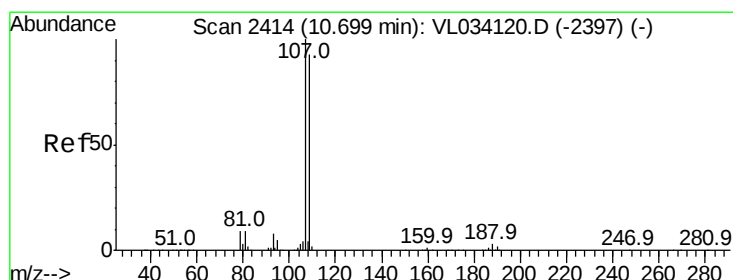
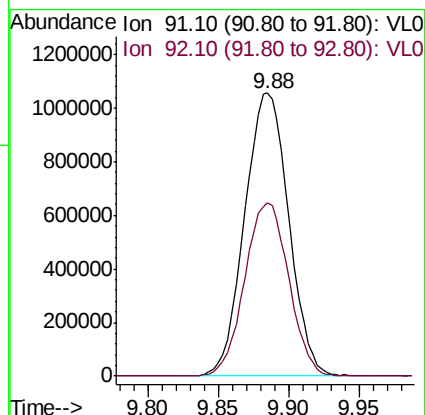
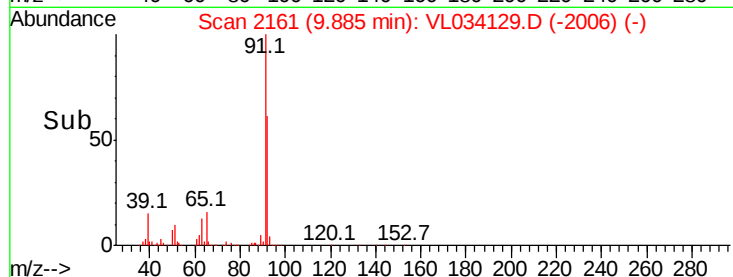
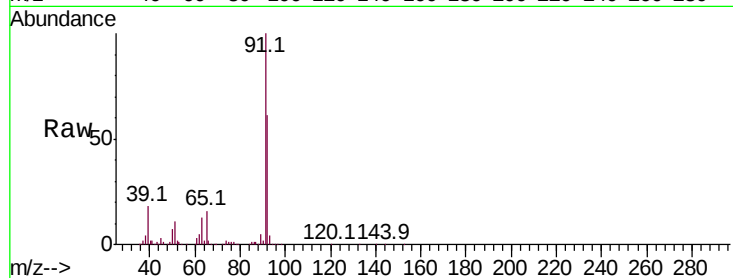
#53
Toluene
Concen: 9.019 ppbv
RT: 9.88 min Scan# 2161
Delta R.T. -0.00 min
Lab File: VL034129.D
Acq: 5 Sep 2019 10:11

Instrument :
MSVOA_L
ClientSampleId :
VL0905ABS01

Tot Ion: 91 Resp: 2313780
Ion Ratio Lower Upper
91 100
92 61.3 49.3 73.9

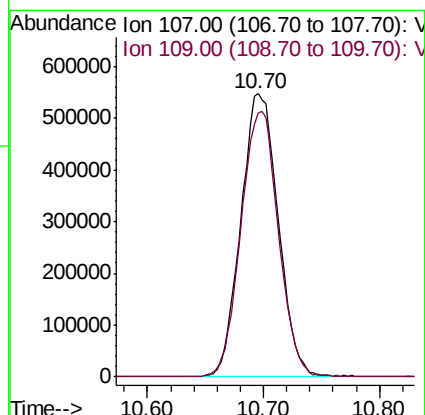
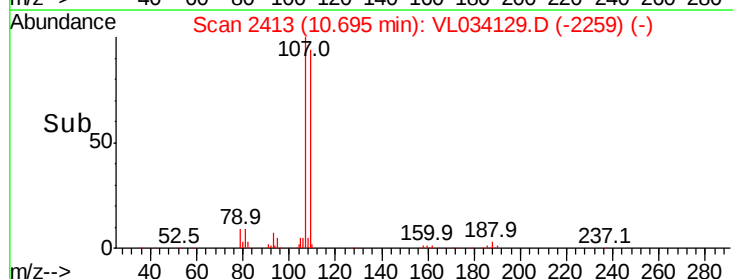
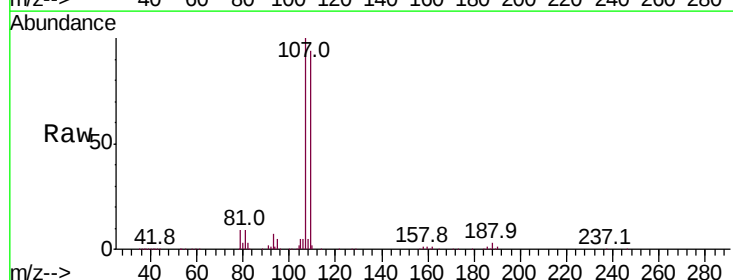
Manual Integrations
APPROVED

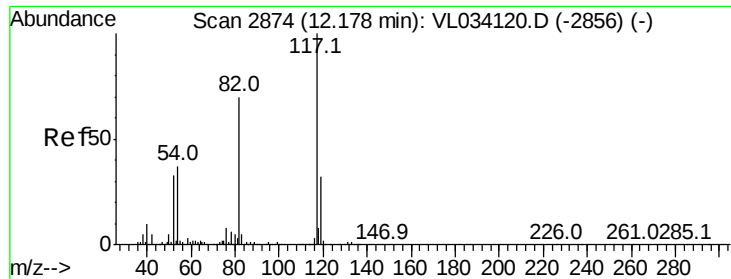
MMDadoda
9/12/2019 5:15:05 AM



#54
1,2-Dibromoethane
Concen: 9.109 ppbv
RT: 10.70 min Scan# 2413
Delta R.T. -0.00 min
Lab File: VL034129.D
Acq: 5 Sep 2019 10:11

Tgt Ion: 107 Resp: 1227188
Ion Ratio Lower Upper
107 100
109 93.5 74.5 111.7





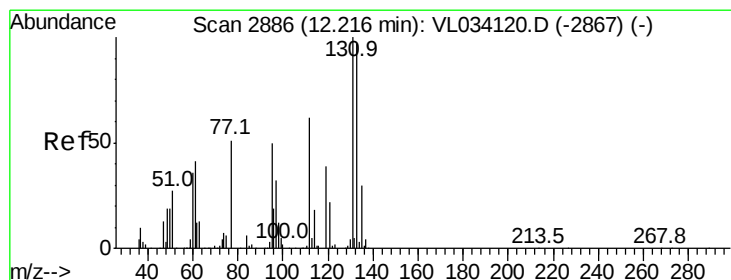
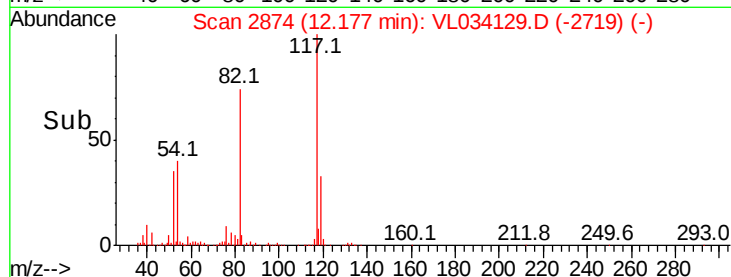
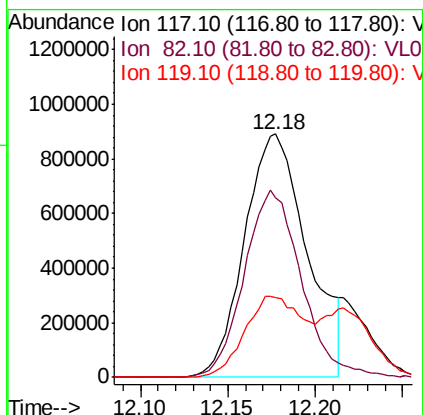
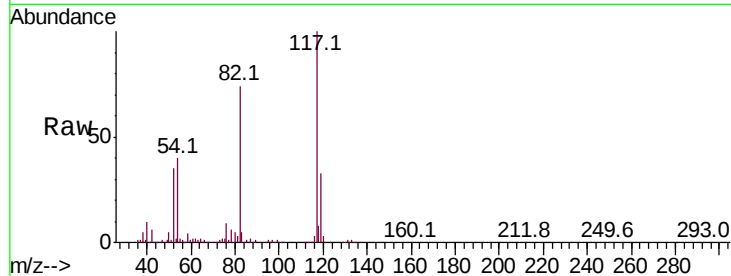
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.18 min Scan# 2874
Delta R.T. -0.00 min
Lab File: VL034129.D
Acq: 5 Sep 2019 10:11

Instrument :
MSVOA_L
ClientSampleId :
VL0905ABS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	70.4	55.8	83.6
119	30.1	43.1	64.7#

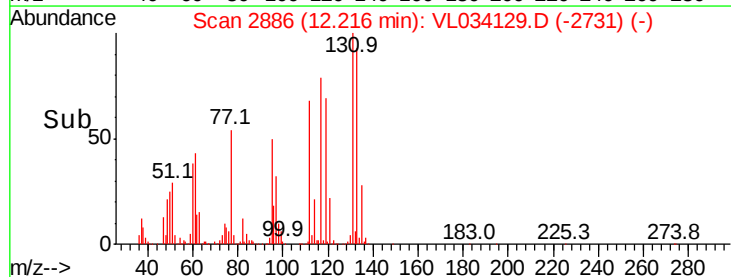
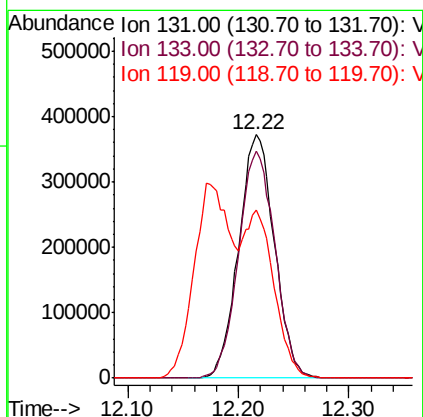
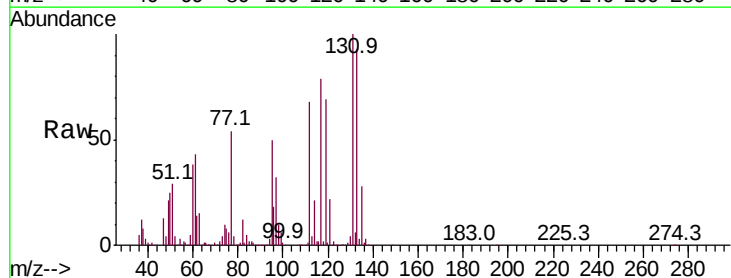
Manual Integrations
APPROVED

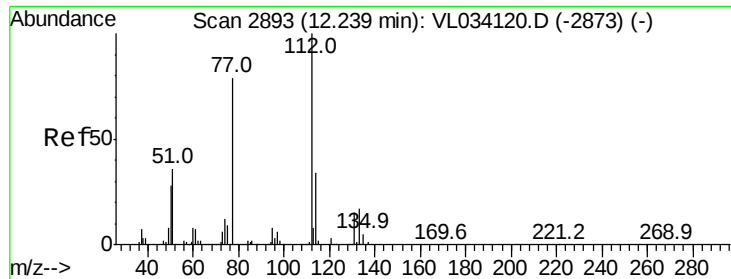
MMDadoda
9/12/2019 5:15:05 AM



#56
1,1,1,2-Tetrachloroethane
Concen: 8.774 ppbv
RT: 12.22 min Scan# 2886
Delta R.T. -0.00 min
Lab File: VL034129.D
Acq: 5 Sep 2019 10:11

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.2	75.8	113.6
119	63.8	114.7	172.1#





#57

Chlorobenzene

Concen: 8.432 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.00 min

Lab File: VL034129.D

Acq: 5 Sep 2019 10:11

Instrument :

MSVOA_L

ClientSampleId :

VL0905ABS01

Tot Ion:112 Resp: 1612549

Ion Ratio Lower Upper

112 100

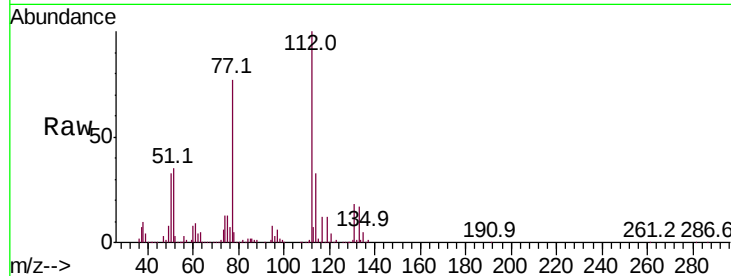
77 76.5 64.4 96.6

114 33.1 30.3 37.1

Manual Integrations
APPROVED

MMDadoda

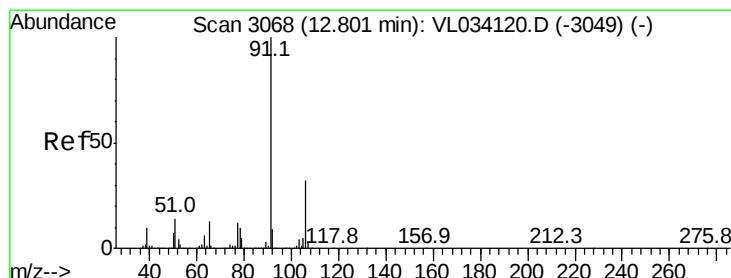
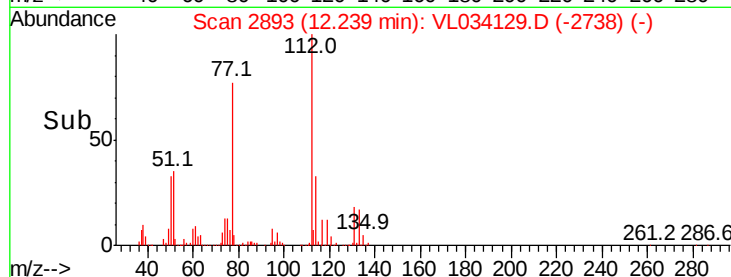
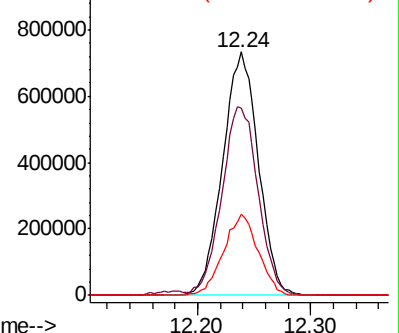
9/12/2019 5:15:05 AM



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: 8.574 ppbv

RT: 12.80 min Scan# 3068

Delta R.T. -0.00 min

Lab File: VL034129.D

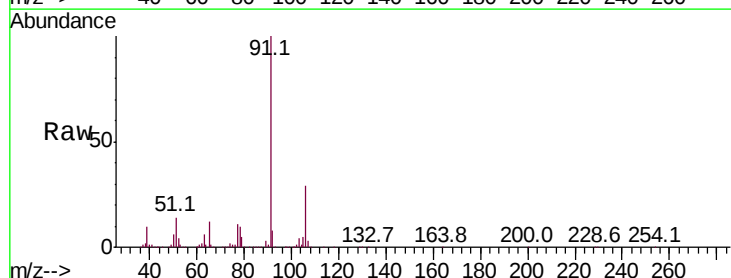
Acq: 5 Sep 2019 10:11

Tgt Ion: 91 Resp: 3125840

Ion Ratio Lower Upper

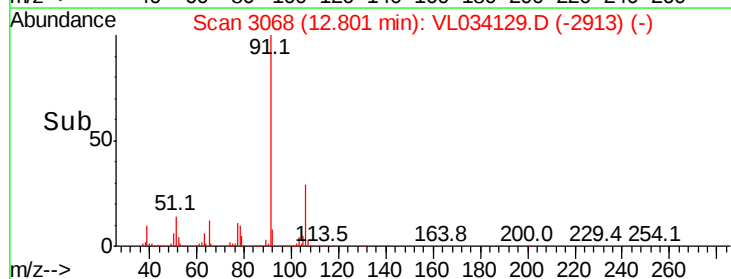
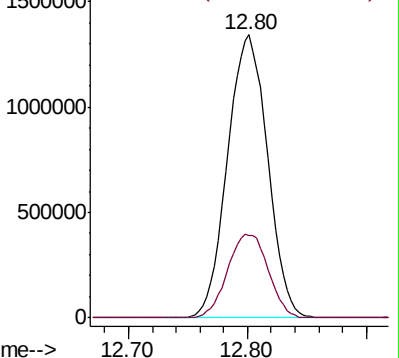
91 100

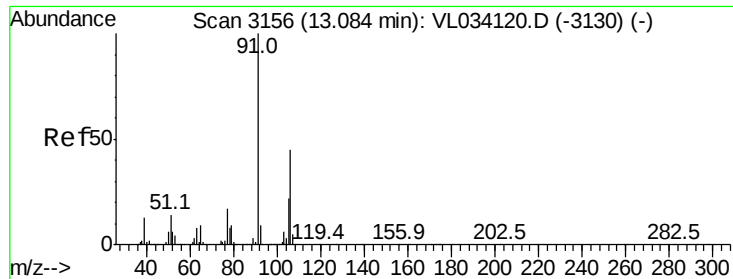
106 29.2 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 16.838 ppbv m

RT: 13.09 min Scan# 3157

Delta R.T. 0.00 min

Lab File: VL034129.D

Acq: 5 Sep 2019 10:11

Instrument :

MSVOA_L

ClientSampleId :

VL0905ABS01

Tot Ion: 91 Resp: 5007531

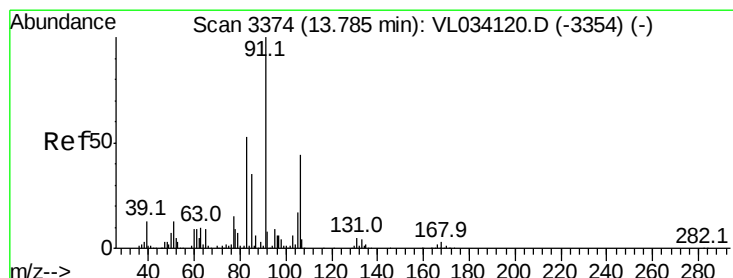
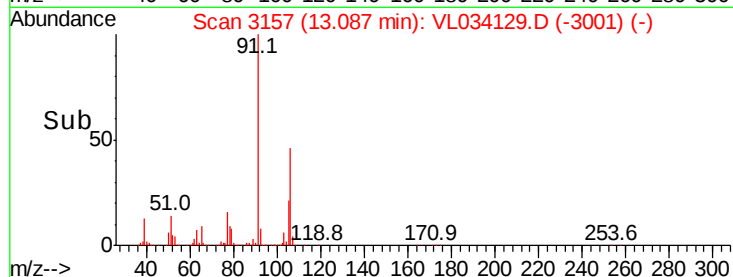
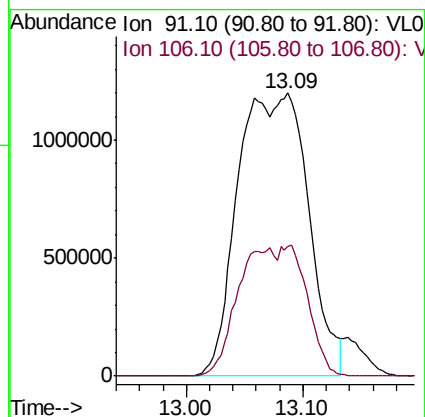
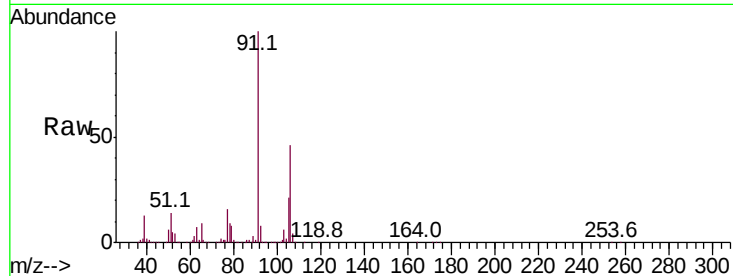
Ion Ratio Lower Upper

91 100

106 44.0 35.4 53.2

Manual Integrations
APPROVED

MMDadoda
9/12/2019 5:15:05 AM



#60

o-Xylene

Concen: 8.251 ppbv

RT: 13.79 min Scan# 3374

Delta R.T. -0.00 min

Lab File: VL034129.D

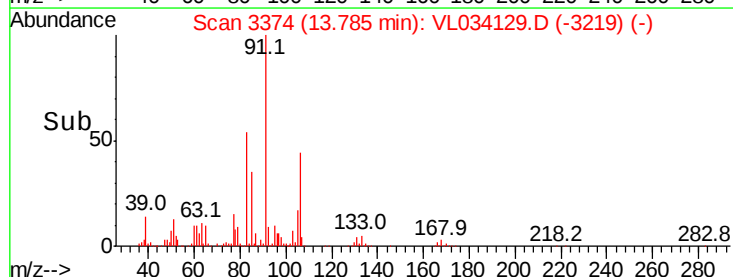
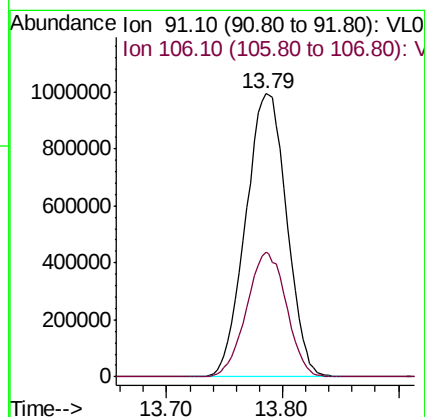
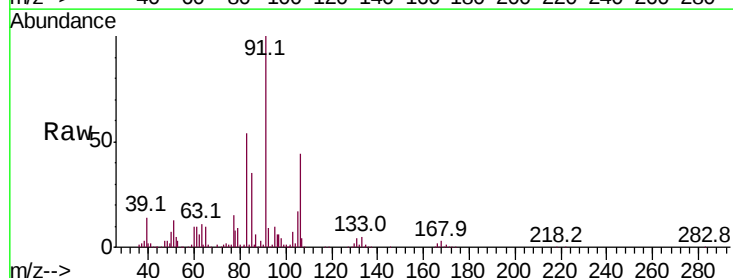
Acq: 5 Sep 2019 10:11

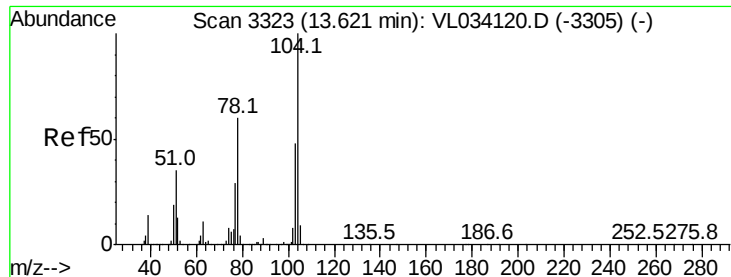
Tgt Ion: 91 Resp: 2444148

Ion Ratio Lower Upper

91 100

106 42.7 21.4 64.3





#61

Stvrene

Concen: 8.742 ppbv

RT: 13.62 min Scan# 3323

Delta R.T. -0.00 min

Lab File: VL034129.D

Acq: 5 Sep 2019 10:11

Instrument :

MSVOA_L

ClientSampleId :

VL0905ABS01

Tot Ion:104 Resp: 1936836

Ion Ratio Lower Upper

104 100

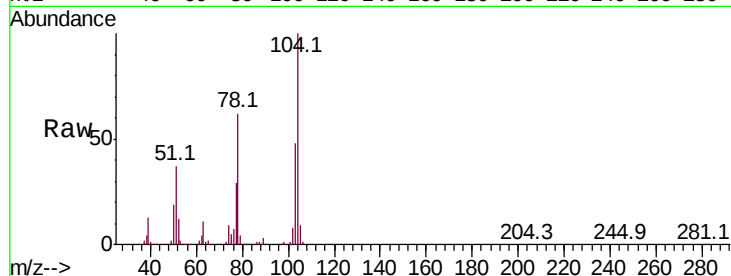
78 60.5 47.8 71.6

103 48.3 38.7 58.1

Manual Integrations
APPROVED

MMDadoda

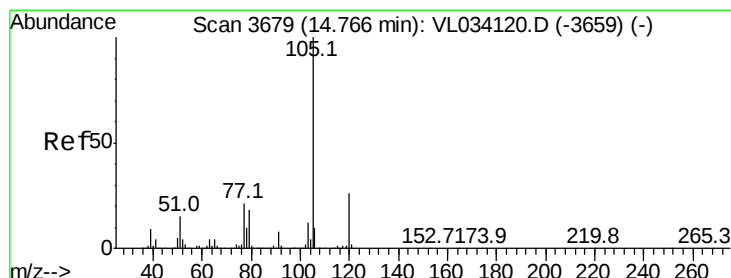
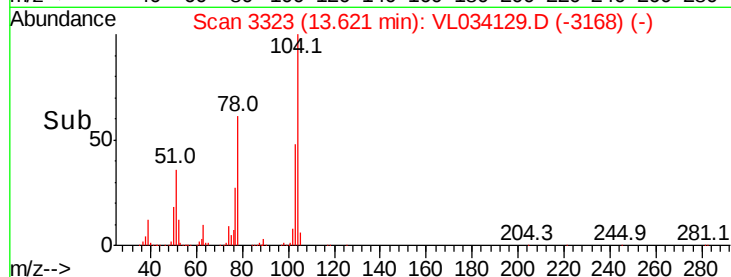
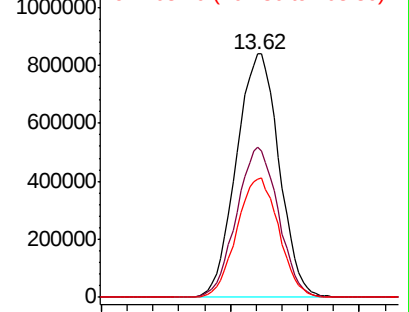
9/12/2019 5:15:05 AM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 8.239 ppbv

RT: 14.76 min Scan# 3678

Delta R.T. -0.00 min

Lab File: VL034129.D

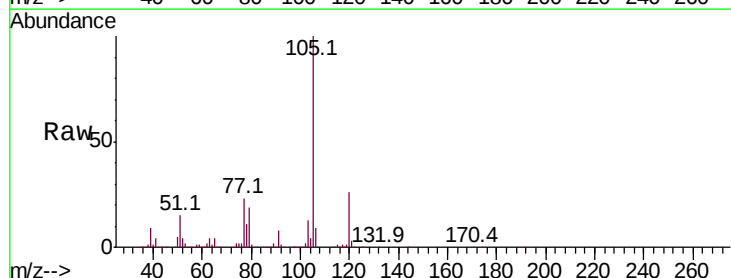
Acq: 5 Sep 2019 10:11

Tgt Ion:105 Resp: 3175374

Ion Ratio Lower Upper

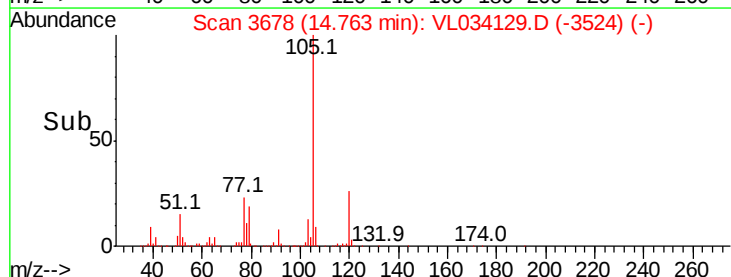
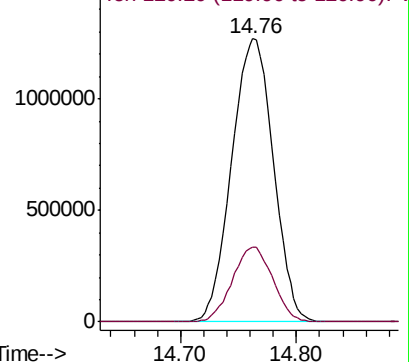
105 100

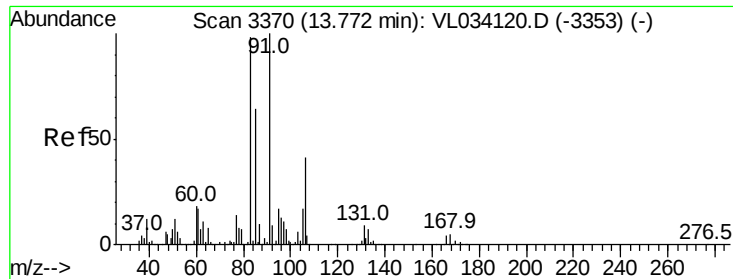
120 25.7 20.6 31.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 7.355 ppbv

RT: 13.77 min Scan# 3370

Delta R.T. -0.00 min

Lab File: VL034129.D

Acq: 5 Sep 2019 10:11

Instrument :

MSVOA_L

ClientSampleId :

VL0905ABS01

Tot Ion: 83 Resp: 1775378

Ion Ratio Lower Upper

83 100

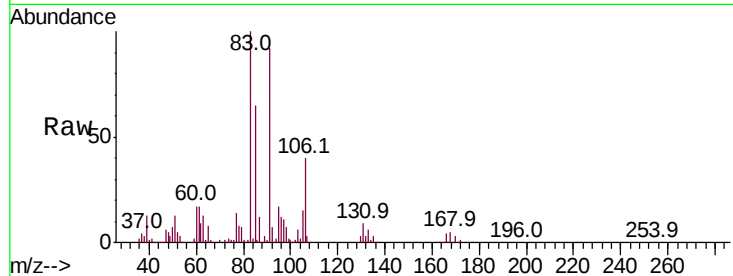
131 8.4 4.3 12.8

85 65.2 32.5 97.5

Manual Integrations
APPROVED

MMDadoda

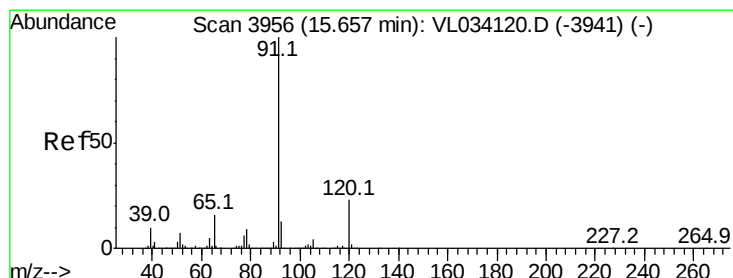
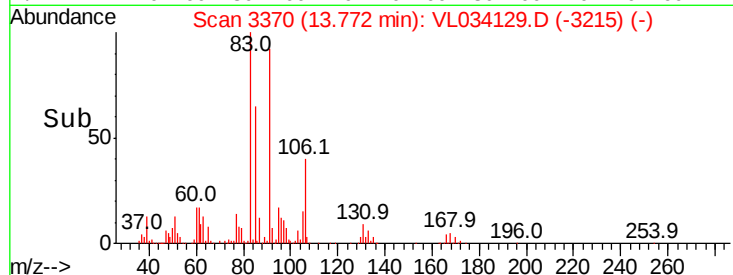
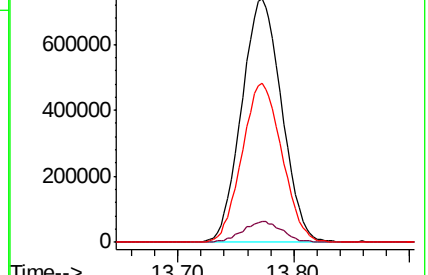
9/12/2019 5:15:05 AM



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 8.668 ppbv

RT: 15.66 min Scan# 3957

Delta R.T. 0.00 min

Lab File: VL034129.D

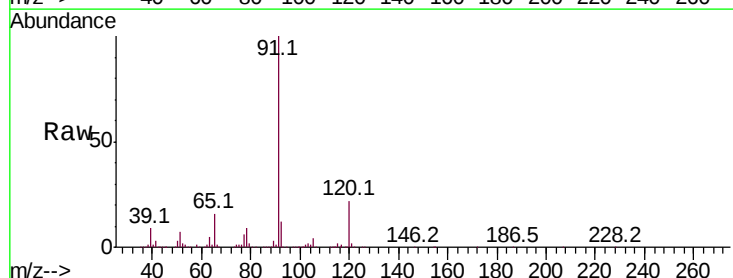
Acq: 5 Sep 2019 10:11

Tgt Ion:120 Resp: 836881

Ion Ratio Lower Upper

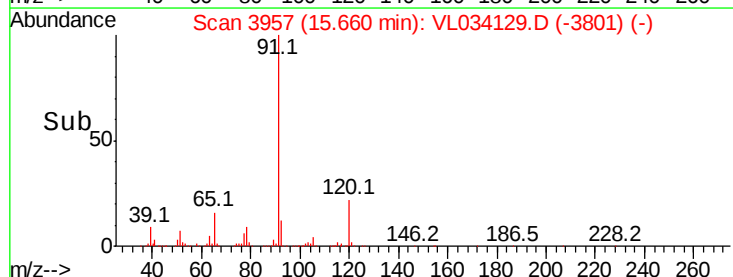
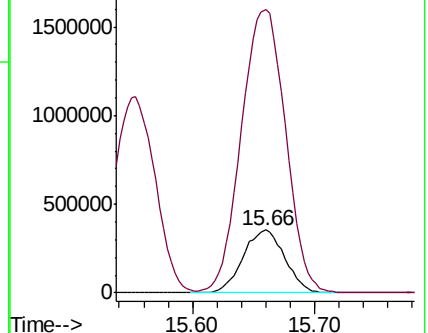
120 100

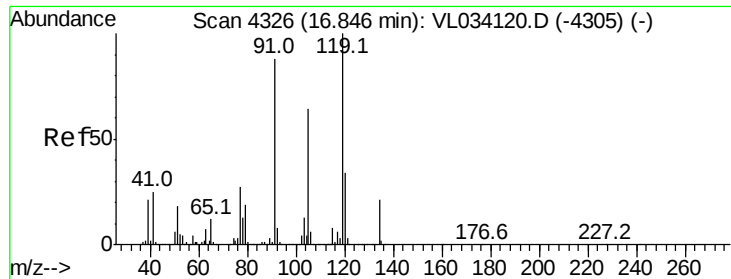
91 478.8 376.8 565.2



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 7.986 ppbv

RT: 16.84 min Scan# 4325

Delta R.T. -0.00 min

Lab File: VL034129.D

Acq: 5 Sep 2019 10:11

Instrument :

MSVOA_L

ClientSampleId :

VL0905ABS01

Tot Ion:119 Resp: 2656444

Ion Ratio Lower Upper

119 100

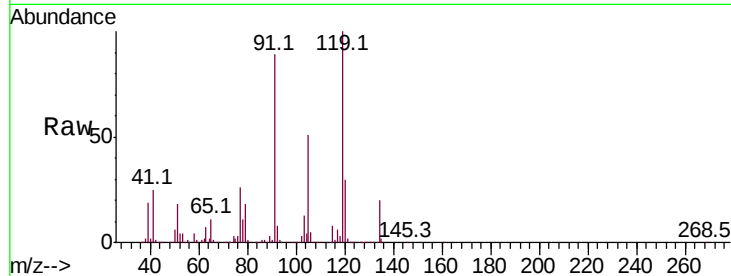
91 91.9 72.8 109.2

134 19.7 15.8 23.8

Manual Integrations
APPROVED

MMDadoda

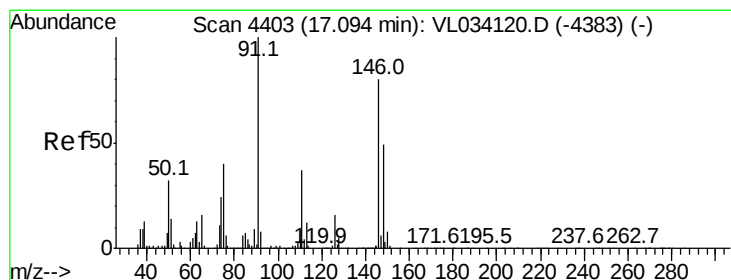
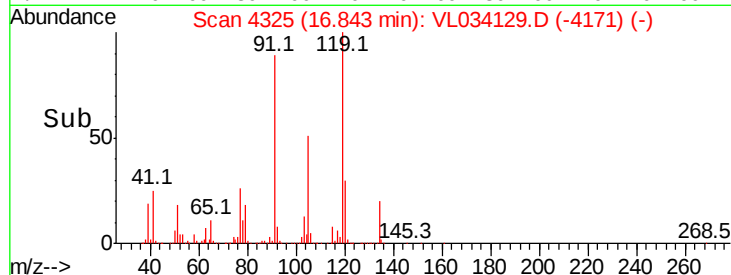
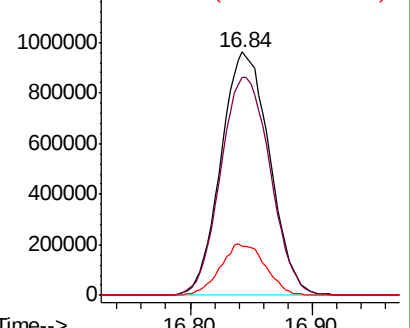
9/12/2019 5:15:05 AM



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 10.788 ppbv

RT: 17.09 min Scan# 4403

Delta R.T. -0.00 min

Lab File: VL034129.D

Acq: 5 Sep 2019 10:11

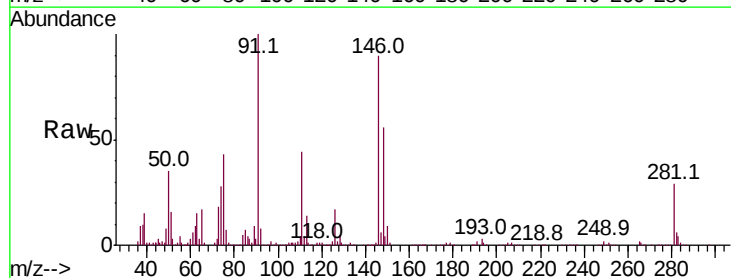
Tgt Ion: 91 Resp: 1322982

Ion Ratio Lower Upper

91 100

126 16.5 13.7 20.5

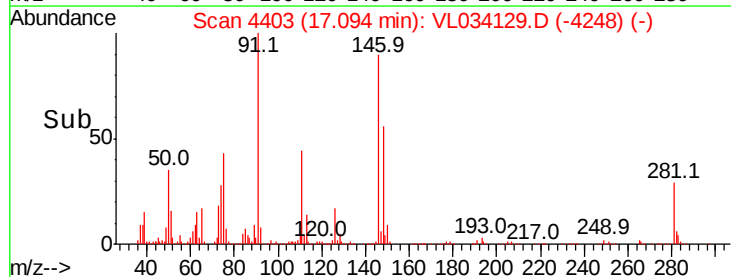
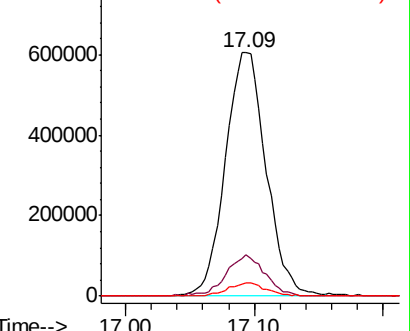
128 5.2 4.2 6.4

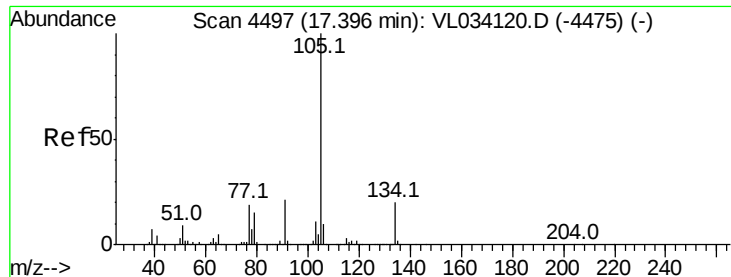


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 8.030 ppbv

RT: 17.40 min Scan# 4497

Delta R.T. -0.00 min

Lab File: VL034129.D

Acq: 5 Sep 2019 10:11

Instrument :

MSVOA_L

ClientSampleId :

VL0905ABS01

Tot Ion:105 Resp: 3840805

Ion Ratio Lower Upper

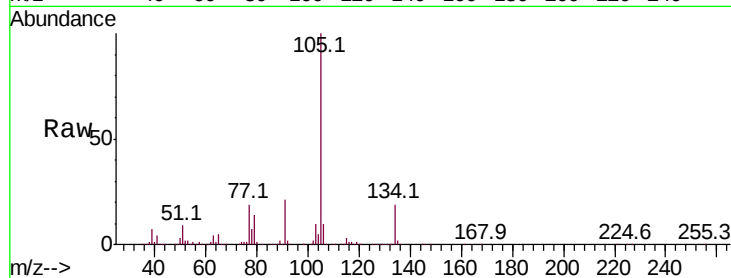
105 100

134 18.2 15.0 22.4

Manual Integrations
APPROVED

MMDadoda

9/12/2019 5:15:05 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.40

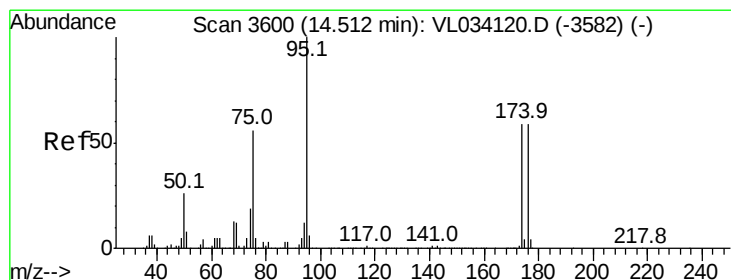
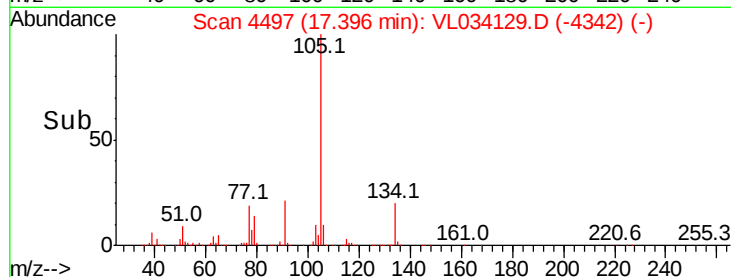
1500000

1000000

500000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.667 ppbv

RT: 14.51 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VL034129.D

Acq: 5 Sep 2019 10:11

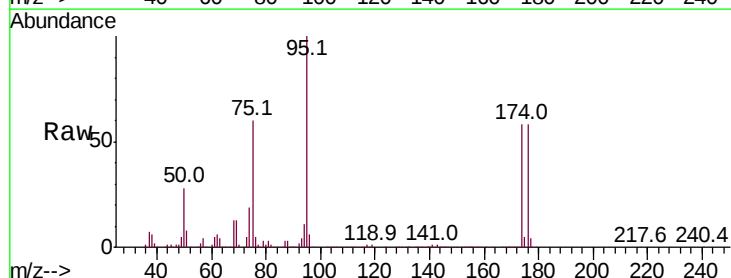
Tgt Ion: 95 Resp: 1757041

Ion Ratio Lower Upper

95 100

174 60.2 48.1 72.1

175 4.4 3.5 5.3



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

14.51

1000000

800000

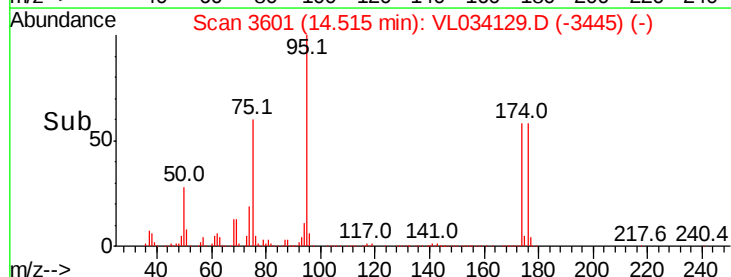
600000

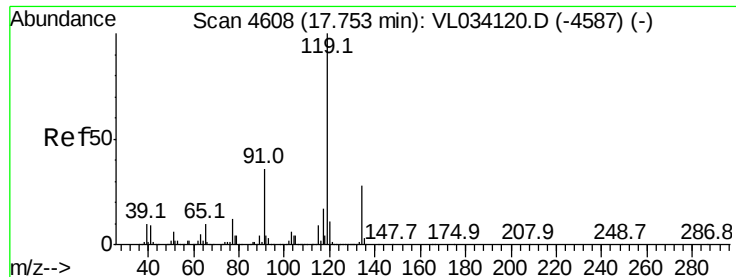
400000

200000

0

Time-->





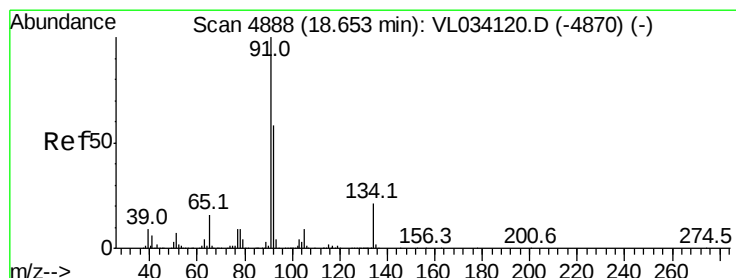
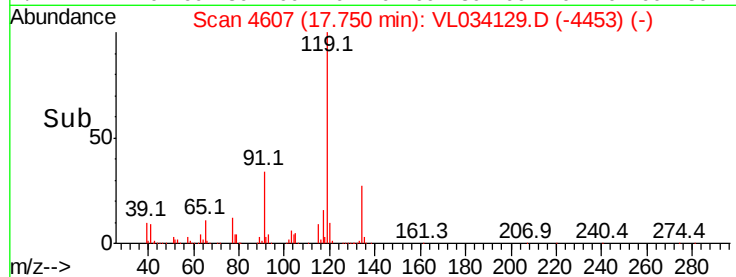
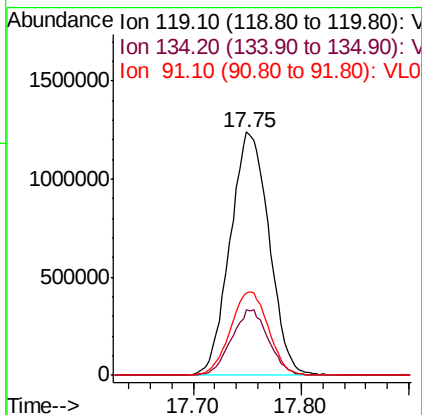
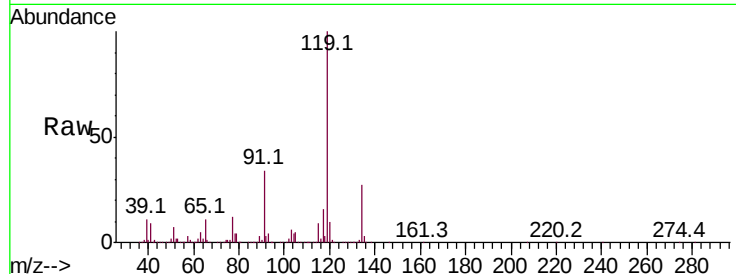
#69
 p-Isopropyltoluene
 Concen: 8.106 ppbv
 RT: 17.75 min Scan# 4607
 Delta R.T. -0.00 min
 Lab File: VL034129.D
 Acq: 5 Sep 2019 10:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0905ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.8	20.8	31.2
91	33.8	27.2	40.8

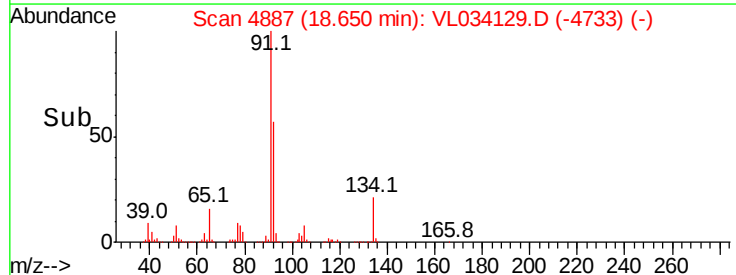
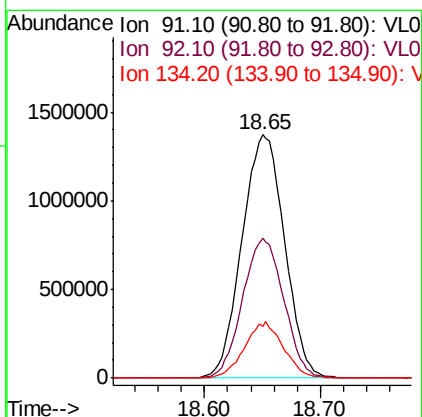
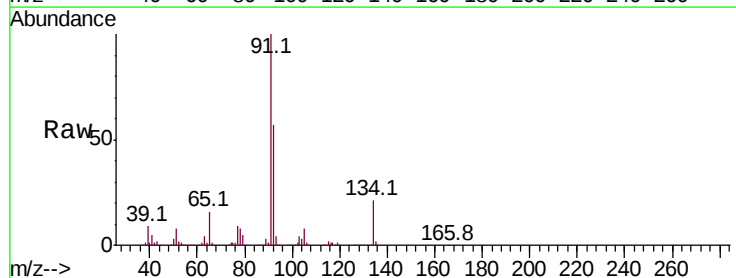
Manual Integrations
 APPROVED

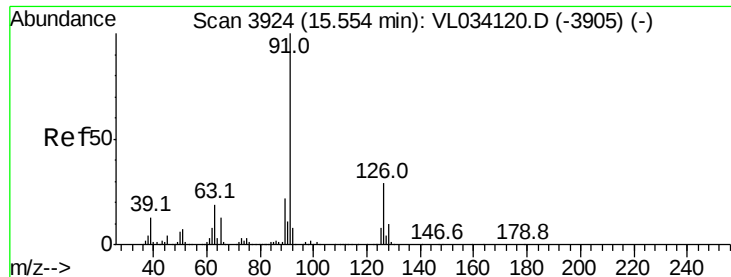
MMDadoda
 9/12/2019 5:15:05 AM



#70
 n-Butylbenzene
 Concen: 8.048 ppbv
 RT: 18.65 min Scan# 4887
 Delta R.T. -0.00 min
 Lab File: VL034129.D
 Acq: 5 Sep 2019 10:11

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.7	45.3	67.9
134	21.2	17.4	26.0





#71

2-Chlorotoluene

Concen: 8.422 ppbv

RT: 15.55 min Scan# 3924

Delta R.T. -0.00 min

Lab File: VL034129.D

Acq: 5 Sep 2019 10:11

Instrument :

MSVOA_L

ClientSampleId :

VL0905ABS01

Tot Ion: 91 Resp: 2651667

Ion Ratio Lower Upper

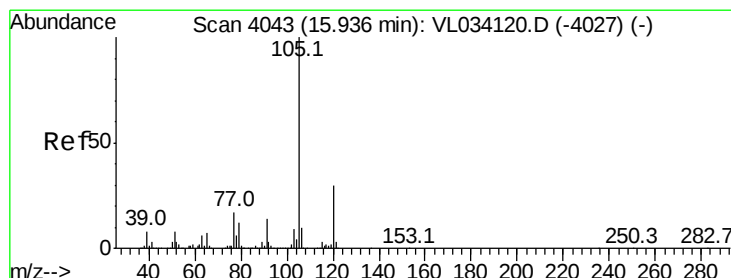
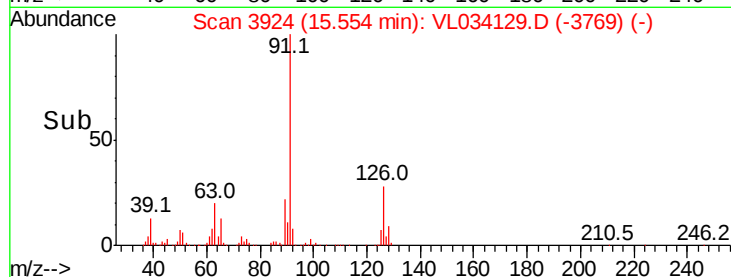
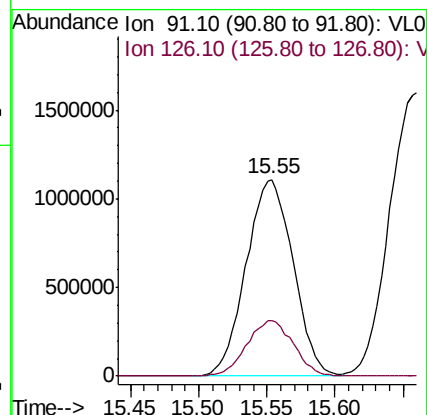
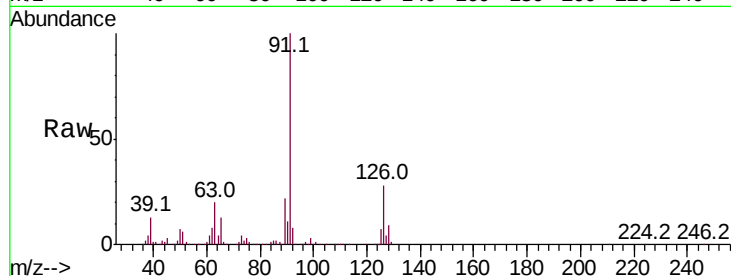
91 100

126 28.0 11.4 45.4

Manual Integrations
APPROVED

MMDadoda

9/12/2019 5:15:05 AM



#72

4-Ethyltoluene

Concen: 8.460 ppbv

RT: 15.94 min Scan# 4043

Delta R.T. -0.00 min

Lab File: VL034129.D

Acq: 5 Sep 2019 10:11

Tgt Ion:105 Resp: 2827306

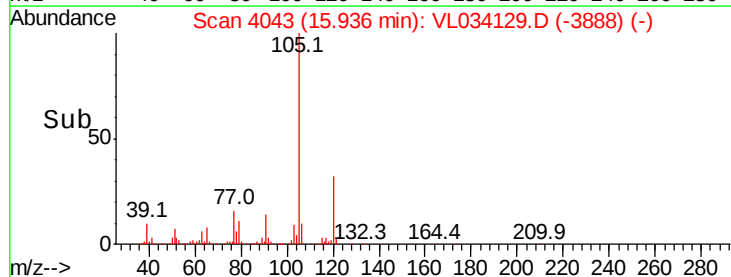
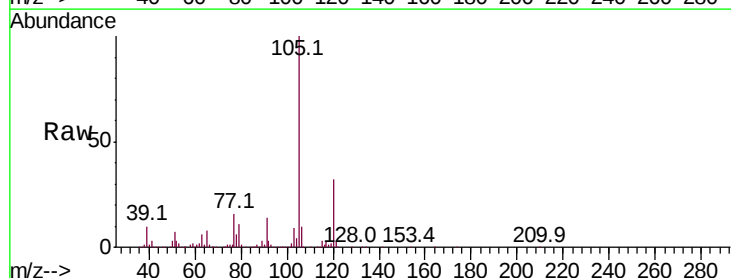
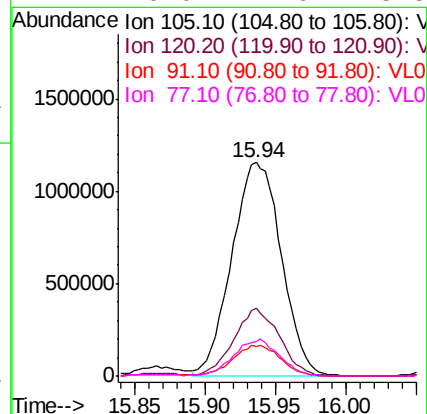
Ion Ratio Lower Upper

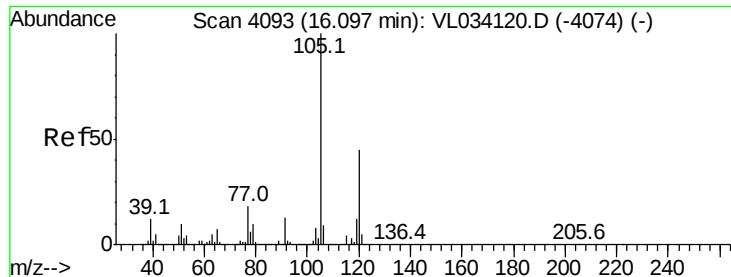
105 100

120 29.4 23.8 35.6

91 13.8 11.4 17.0

77 16.0 12.6 18.8





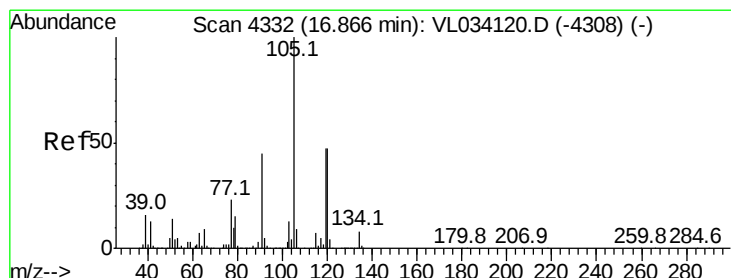
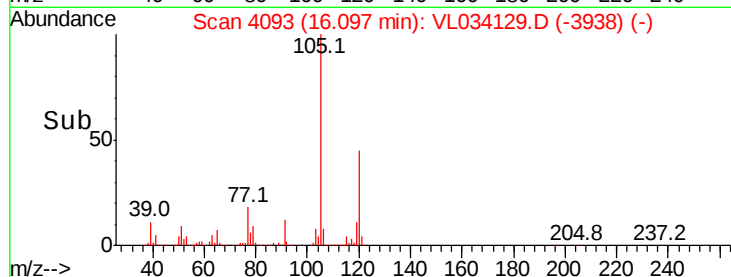
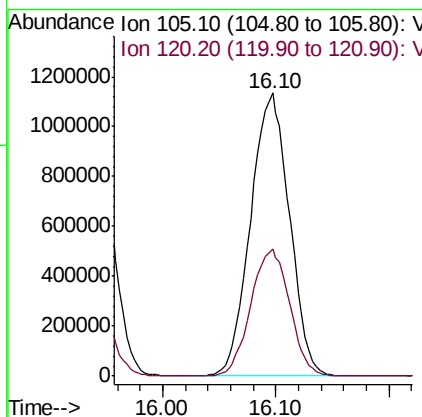
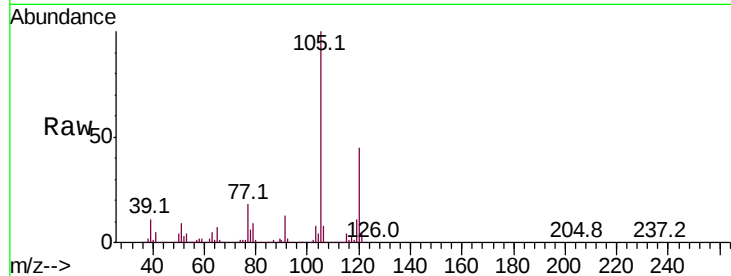
#73
 1,3,5-Trimethylbenzene
 Concen: 8.306 ppbv
 RT: 16.10 min Scan# 4093
 Delta R.T. -0.00 min
 Lab File: VL034129.D
 Acq: 5 Sep 2019 10:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0905ABS01

Tot Ion:105 Resp: 2697745
 Ion Ratio Lower Upper
 105 100
 120 44.7 35.8 53.8

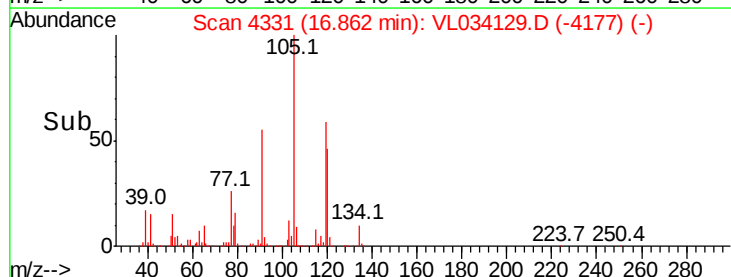
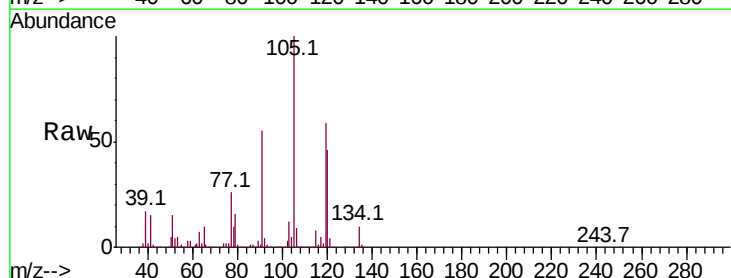
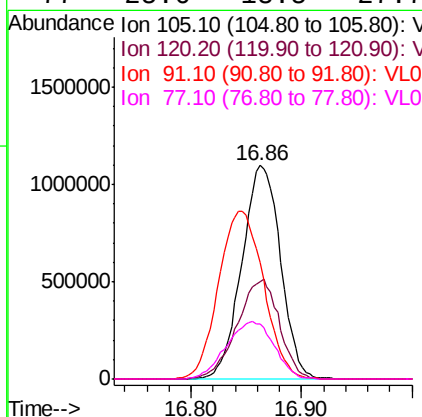
Manual Integrations
 APPROVED

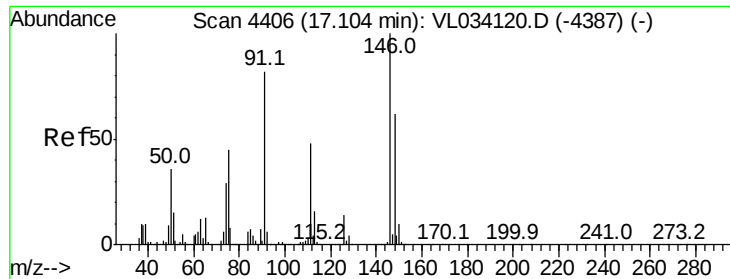
MMDadoda
 9/12/2019 5:15:05 AM



#74
 1,2,4-Trimethylbenzene
 Concen: 7.966 ppbv
 RT: 16.86 min Scan# 4331
 Delta R.T. -0.00 min
 Lab File: VL034129.D
 Acq: 5 Sep 2019 10:11

Tgt Ion:105 Resp: 2664310
 Ion Ratio Lower Upper
 105 100
 120 45.6 37.7 56.5
 91 54.4 36.2 54.2#
 77 25.6 18.5 27.7





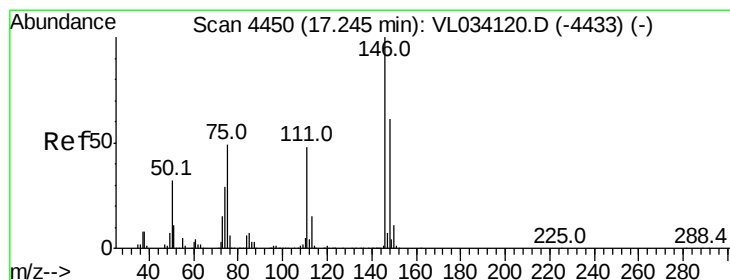
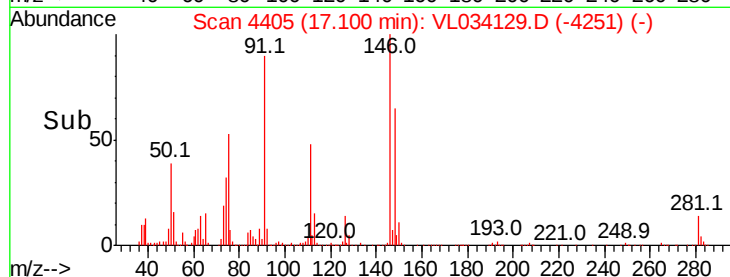
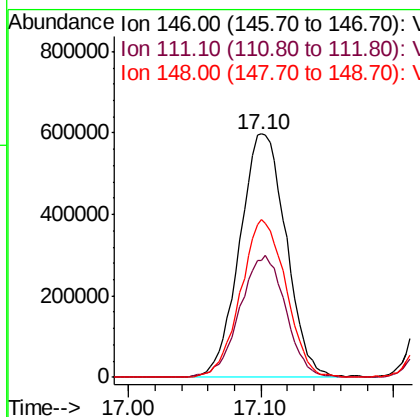
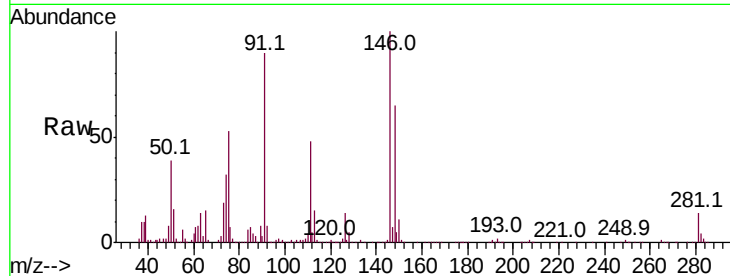
#75
 1,3-Dichlorobenzene
 Concen: 8.177 ppbv
 RT: 17.10 min Scan# 4405
 Delta R.T. -0.00 min
 Lab File: VL034129.D
 Acq: 5 Sep 2019 10:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0905ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.8	24.9	74.7
148	63.8	32.5	97.5

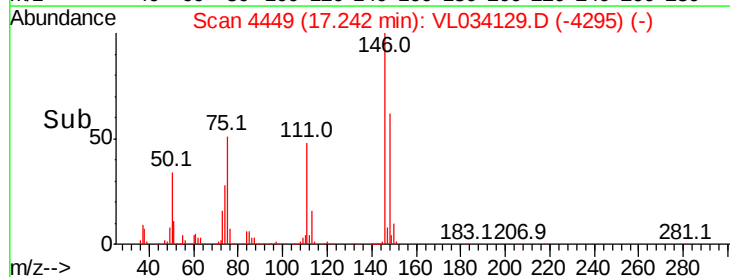
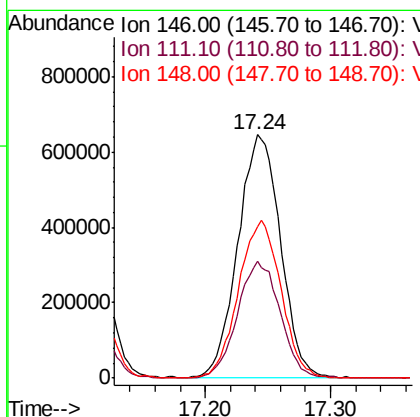
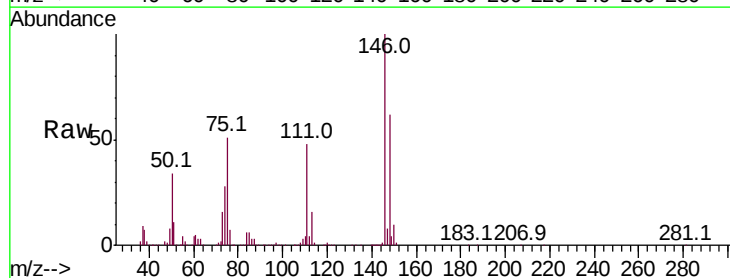
Manual Integrations
 APPROVED

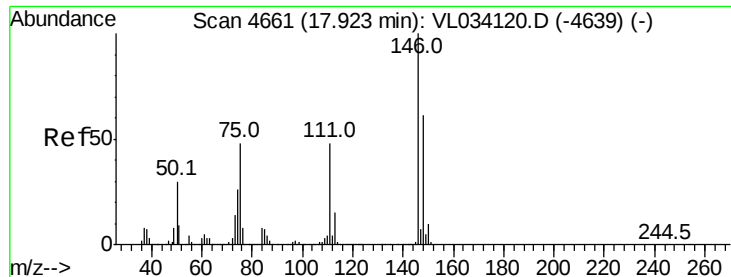
MMDadoda
 9/12/2019 5:15:05 AM



#76
 1,4-Dichlorobenzene
 Concen: 8.128 ppbv
 RT: 17.24 min Scan# 4449
 Delta R.T. -0.00 min
 Lab File: VL034129.D
 Acq: 5 Sep 2019 10:11

Tgt Ion	Ratio	Lower	Upper
146	100		
111	48.5	24.3	72.8
148	65.1	32.6	98.0





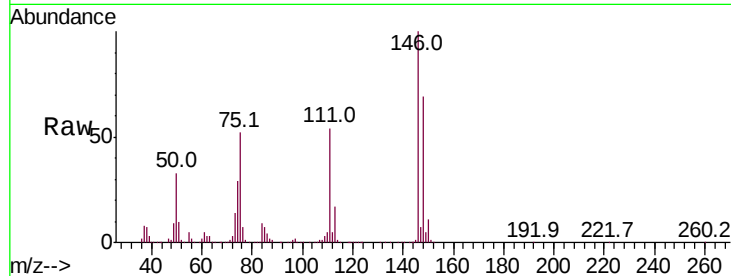
#77
 1,2-Dichlorobenzene
 Concen: 8.006 ppbv
 RT: 17.92 min Scan# 4661
 Delta R.T. -0.00 min
 Lab File: VL034129.D
 Acq: 5 Sep 2019 10:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0905ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	52.0	25.1	75.4
148	65.9	32.0	96.2

Manual Integrations
 APPROVED

MMDadoda
 9/12/2019 5:15:05 AM

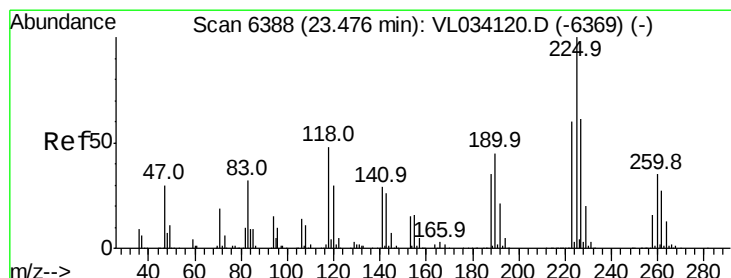
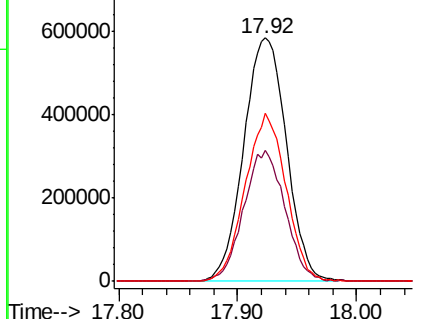
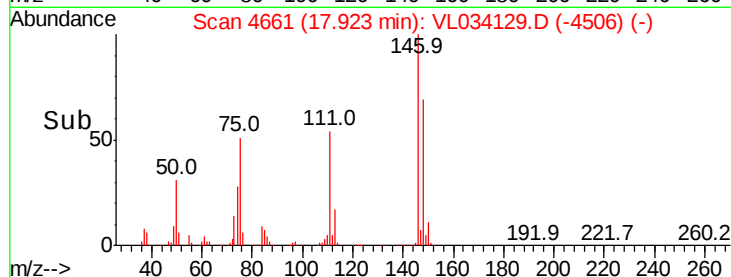


Abundance

Ion 146.00 (145.70 to 146.70): V

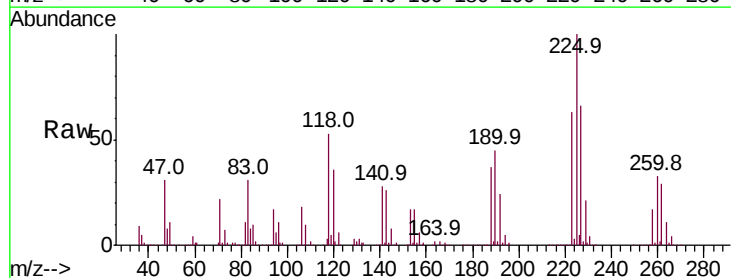
Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78
 Hexachloro-1,3-Butadiene
 Concen: 7.744 ppbv
 RT: 23.48 min Scan# 6389
 Delta R.T. 0.00 min
 Lab File: VL034129.D
 Acq: 5 Sep 2019 10:11

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.4	50.3	75.5
227	64.3	50.9	76.3

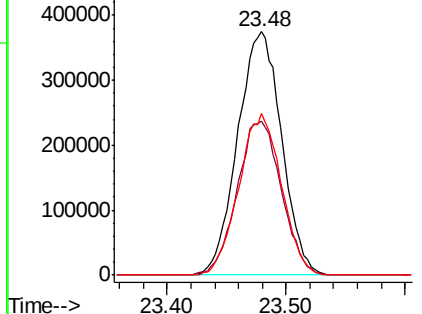
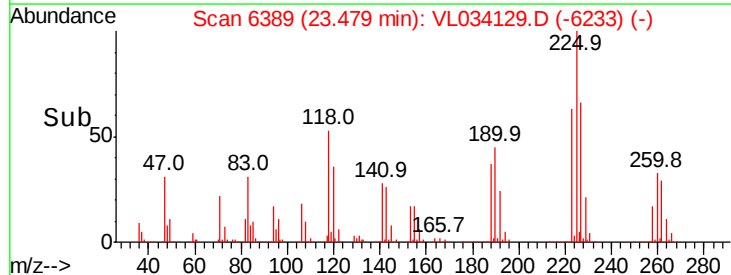


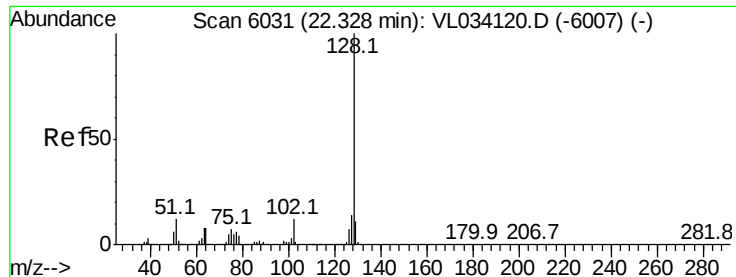
Abundance

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: 8.491 ppbv

RT: 22.33 min Scan# 6032

Delta R.T. 0.00 min

Lab File: VL034129.D

Acq: 5 Sep 2019 10:11

Instrument :

MSVOA_L

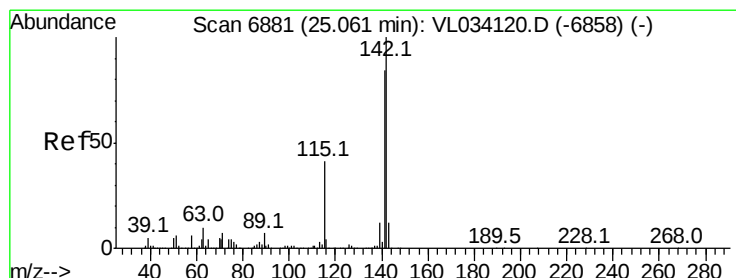
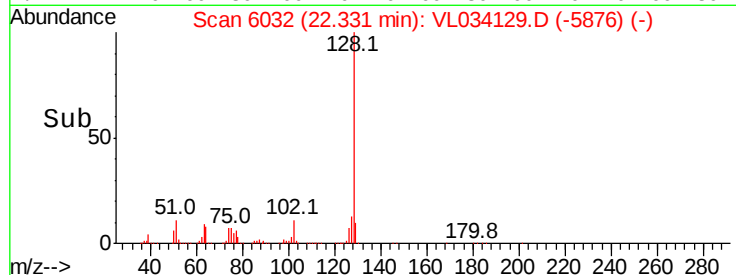
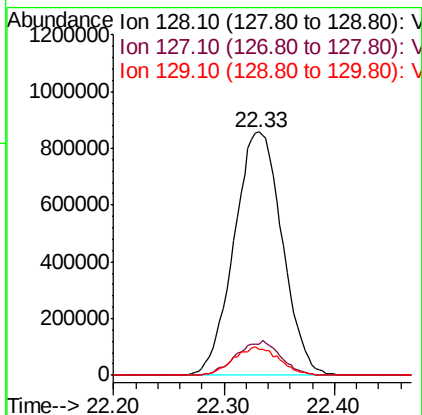
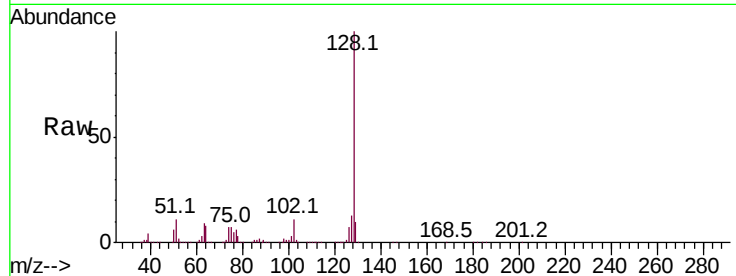
ClientSampleId :

VL0905ABS01

Tot Ion:	128	Resp:	2567596
Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.9	16.3
129	10.5	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
9/12/2019 5:15:05 AM



#80

Naphthalene, 2-methyl-

Concen: 14.474 ppbv

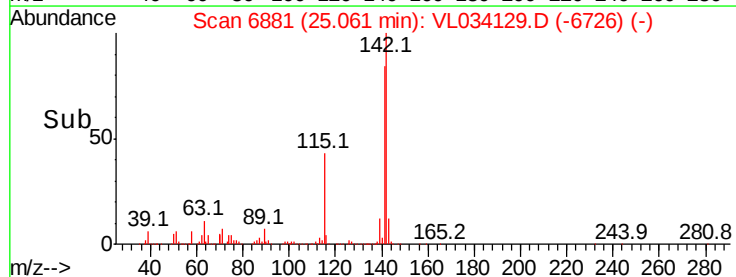
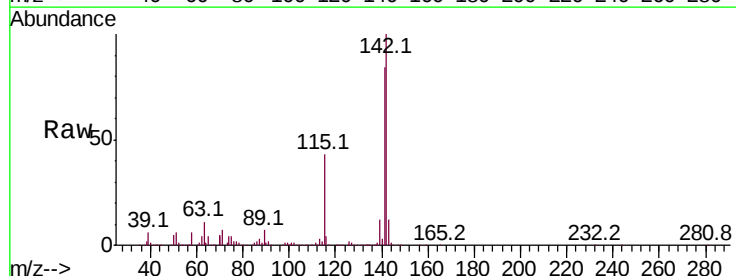
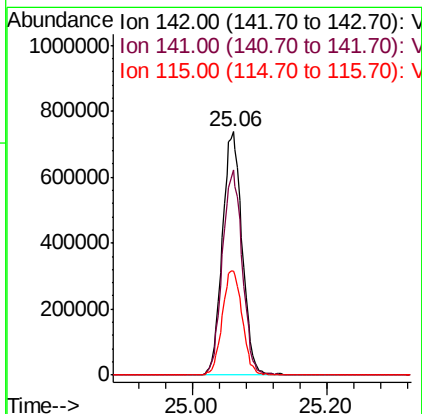
RT: 25.06 min Scan# 6881

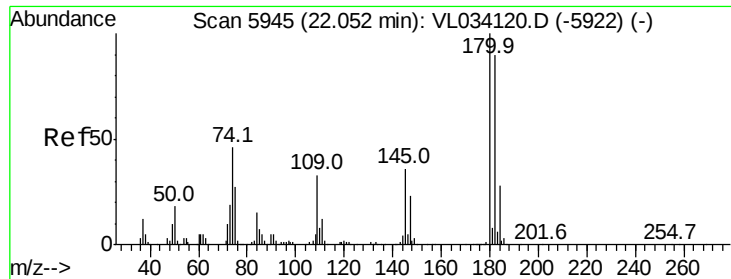
Delta R.T. -0.00 min

Lab File: VL034129.D

Acq: 5 Sep 2019 10:11

Tgt Ion:	142	Resp:	1519178
Ion	Ratio	Lower	Upper
142	100		
141	84.6	67.6	101.4
115	43.2	34.6	52.0





#81
 1,2,4-Trichlorobenzene
 Concen: 8.402 ppbv
 RT: 22.06 min Scan# 5947
 Delta R.T. 0.01 min
 Lab File: VL034129.D
 Acq: 5 Sep 2019 10:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0905ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.7	77.0	115.4
184	31.0	25.5	38.3

Manual Integrations
 APPROVED

MMDadoda
 9/12/2019 5:15:05 AM

