

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031319\
 Data File : VL033309.D
 Acq On : 14 Mar 2019 10:16
 Operator : SY/AP
 Sample : VL0313ABS01
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0313ABS01

Manual Integrations
 APPROVED

MMDadoda
 3/15/2019 10:41:58 PM

Quant Time: Mar 15 02:24:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031319AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 15 02:24:19 2019
 QLast Update : Thu Mar 14 00:01:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	738177	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1671223	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2013911	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1518117	9.87	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.70%

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.08	85	1376034	10.075	ppbv 98
3) Chlorodifluoromethane	3.01	51	864632	8.979	ppbv 100
4) Chloromethane	3.17	50	459471	8.814	ppbv 100
5) Vinyl Chloride	3.29	62	453514	8.691	ppbv 100
6) Bromomethane	3.51	94	290337	9.241	ppbv 98
7) Chloroethane	3.60	64	173041	9.261	ppbv 100
8) Dichlorotetrafluoroethane	3.22	85	1128243	9.045	ppbv 99
9) Propene	3.04	41	376517	8.664	ppbv 98
10) Heptane	8.25	43	1001765	9.430	ppbv 98
11) Trichlorofluoromethane	4.00	101	1264908	9.217	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	840148	9.080	ppbv 99
13) Ethanol	3.65	45	85871	6.456	ppbv 99
14) Bromoethene	3.79	108	371276	9.654	ppbv 99
15) Acetone	3.90	43	818167	8.061	ppbv 100
16) 1,3-Butadiene	3.36	39	378790	9.114	ppbv 91
17) tert-Butyl alcohol	4.36	59	158111	8.932	ppbv 98
18) 1,1-Dichloroethene	4.35	96	387722	9.488	ppbv 98
19) Isopropyl Alcohol	4.02	45	536310	8.637	ppbv 100
20) Methylene Chloride	4.41	84	324080	7.887	ppbv 97
21) Allyl Chloride	4.48	41	572945	9.350	ppbv 98
22) trans-1,2-Dichloroethene	4.96	96	392452	9.520	ppbv 99
23) Vinyl Acetate	5.16	43	1423772	9.662	ppbv 99
24) 1,1-Dichloroethane	5.09	63	991474	9.301	ppbv 100
25) Ethyl Acetate	5.77	43	1727248	9.342	ppbv 100
26) Hexane	5.78	57	762563	8.827	ppbv 99
27) Carbon Disulfide	4.62	76	963042	10.424	ppbv 99
28) Methyl tert-Butyl Ether	5.11	73	1169916	9.420	ppbv 100
29) Chloroform	5.85	83	1286542	9.580	ppbv 99
30) Cyclohexane	7.25	84	641803	9.570	ppbv 99
31) cis-1,2-Dichloroethene	5.64	61	795570	9.564	ppbv 98
32) 1,1,1-Trichloroethane	6.62	97	1267110	9.723	ppbv 99
34) 2-Butanone	5.33	43	1113771	9.639	ppbv 100
35) Carbon Tetrachloride	7.14	117	1316959	10.251	ppbv 98
36) Benzene	7.01	78	1598445	9.739	ppbv 99
37) 1,2-Dichloroethane	6.42	62	995235	10.150	ppbv 100
38) Trichloroethene	7.96	130	590278	9.096	ppbv 98
39) 1,2-Dichloropropane	7.74	63	598342	9.493	ppbv 98
40) 1,4-Dioxane	7.95	88	209998	9.220	ppbv 70
41) Tetrahydrofuran	6.15	42	648992	10.124	ppbv 99
42) Bromodichloromethane	7.92	83	1396054	10.157	ppbv 99
43) Methyl Methacrylate	8.14	69	644080	9.857	ppbv 98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031319\
 Data File : VL033309.D
 Acq On : 14 Mar 2019 10:16
 Operator : SY/AP
 Sample : VL0313ABS01
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0313ABS01

Manual Integrations
 APPROVED

MMDadoda
 3/15/2019 10:41:58 PM

Quant Time: Mar 15 02:24:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031319AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 15 2019
 QLast Update : Thu Mar 14 00:01:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	2633874	9.386	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	868402	11.332	ppbv	100
46) cis-1,3-Dichloropropene	8.84	75	983673	10.654	ppbv	98
47) 1,1,2-Trichloroethane	9.61	97	652479	9.672	ppbv	99
48) Dibromochloromethane	10.45	129	1179000	10.623	ppbv	99
49) Bromoform	13.21	173	1143722	11.894	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	1632590	9.752	ppbv	100
51) 2-Hexanone	10.27	43	1296030	10.139	ppbv	99
52) Tetrachloroethene	11.37	164	645928	9.581	ppbv	97
53) Toluene	9.95	91	1862572	9.910	ppbv	99
54) 1,2-Dibromoethane	10.76	107	1046870	9.720	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	910314	10.074	ppbv	99
57) Chlorobenzene	12.30	112	1512051	9.300	ppbv	95
58) Ethyl Benzene	12.87	91	2890101	9.997	ppbv	99
59) m/p-Xylene	13.15	91	4818137m	19.820	ppbv	
60) o-Xylene	13.85	91	2357893	10.056	ppbv	99
61) Styrene	13.69	104	1749609	10.633	ppbv	100
62) Isopropylbenzene	14.83	105	3299172	10.001	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	1620639	9.590	ppbv	100
64) n-propylbenzene	15.72	120	831475	10.165	ppbv	100
65) tert-Butylbenzene	16.91	119	2928039	10.503	ppbv	99
66) Benzyl Chloride	17.16	91	1488944	13.423	ppbv	99
67) sec-Butylbenzene	17.46	105	4168813	10.400	ppbv	100
69) p-Isopropyltoluene	17.82	119	3427158	10.700	ppbv	100
70) n-Butylbenzene	18.72	91	3638044	10.864	ppbv	100
71) 2-Chlorotoluene	15.62	91	2552873	10.333	ppbv	99
72) 4-Ethyltoluene	16.00	105	2715698	10.812	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	2619222	11.090	ppbv	97
74) 1,2,4-Trimethylbenzene	16.93	105	2683350	11.134	ppbv	95
75) 1,3-Dichlorobenzene	17.17	146	1518687	10.067	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1520983	10.325	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	1490077	10.145	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	831822	7.679	ppbv	99
79) Naphthalene	22.42	128	2735731	13.817	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	1258916	22.701	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1371920	12.185	ppbv	99

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

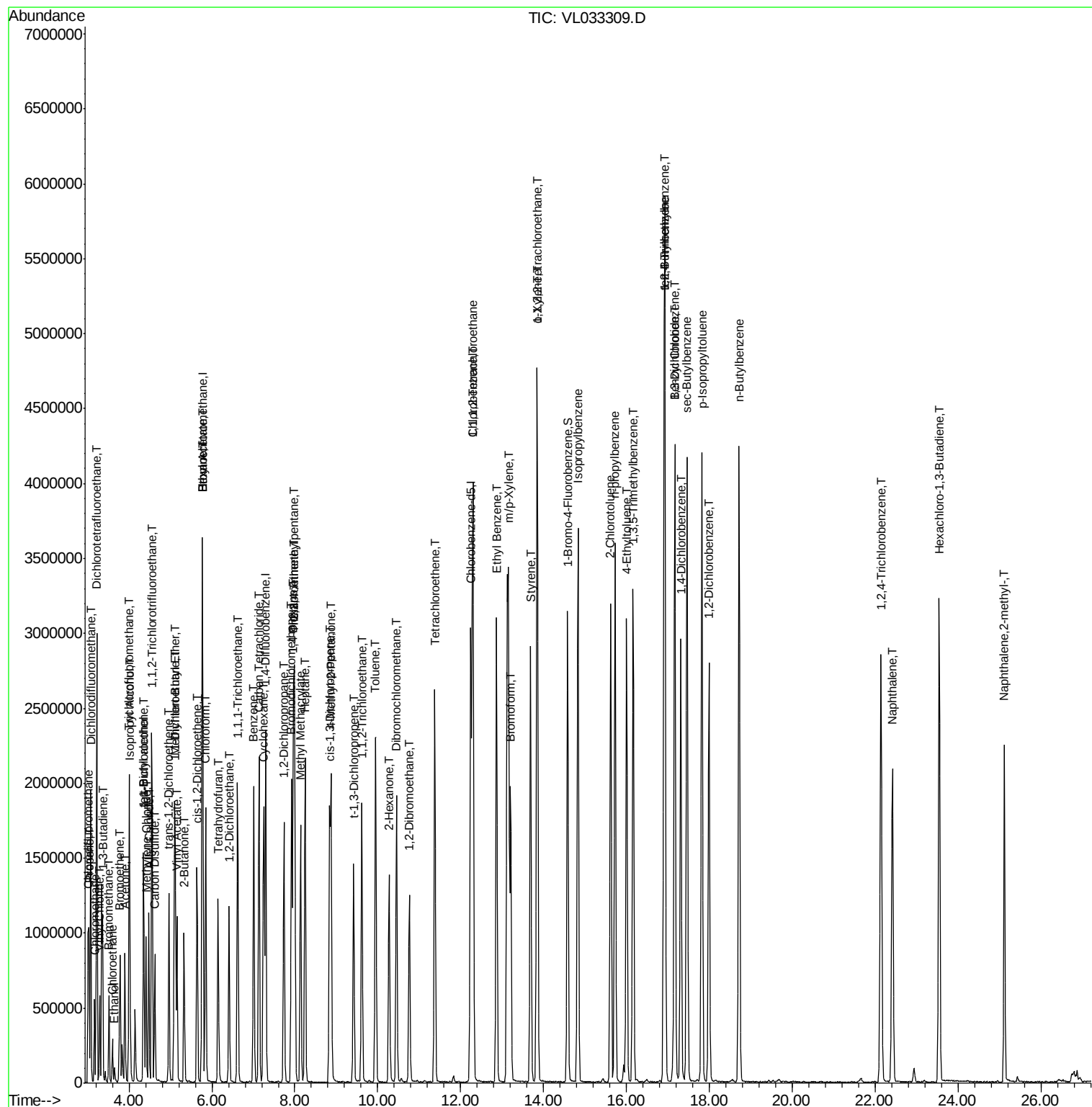
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031319\
Data File : VL033309.D
Acq On : 14 Mar 2019 10:16
Operator : SY/AP
Sample : VL0313ABS01
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

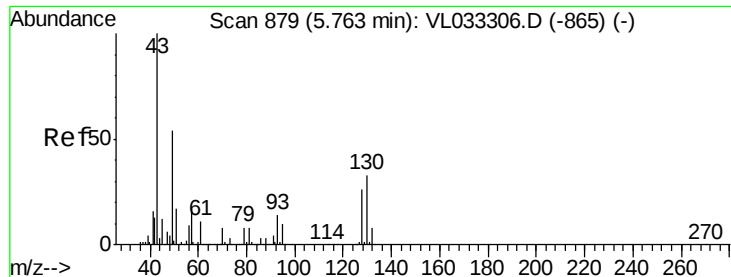
Instrument :
MSVOA_L
ClientSampleId :
VL0313ABS01

Manual Integrations
APPROVED

MMDadoda
3/15/2019 10:41:58 PM

Quant Time: Mar 15 02:24:19 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031319AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar
QLast Update : Thu Mar 14 00:01:31 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.00 min

Lab File: VL033309.D

Acq: 14 Mar 2019 10:16

Instrument :

MSVOA_L

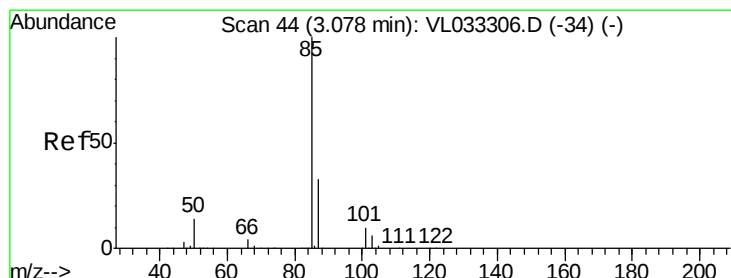
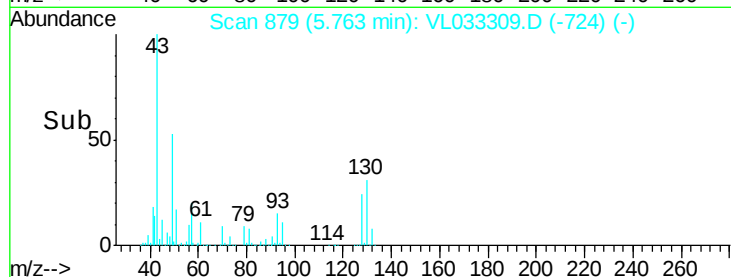
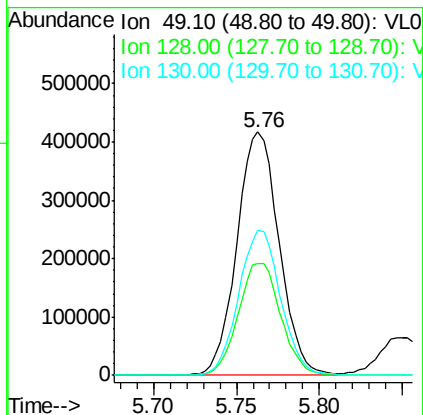
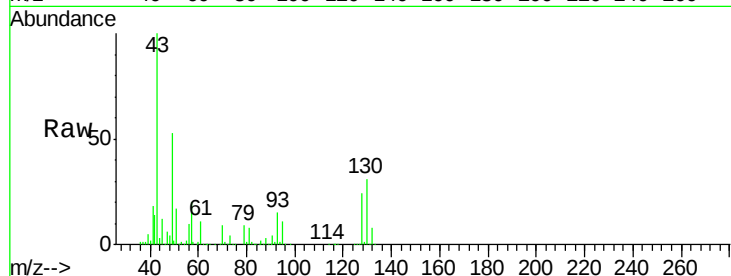
ClientSampleId :

VL0313ABS01

Tgt Ion:	49	Resp:	738177
Ion Ratio	Lower	Upper	
49	100		
128	46.4	23.4	70.3
130	59.0	29.9	89.7

Manual Integrations
APPROVED

MMDadoda
3/15/2019 10:41:58 PM



#2

Dichlorodifluoromethane

Concen: 10.075 ppbv

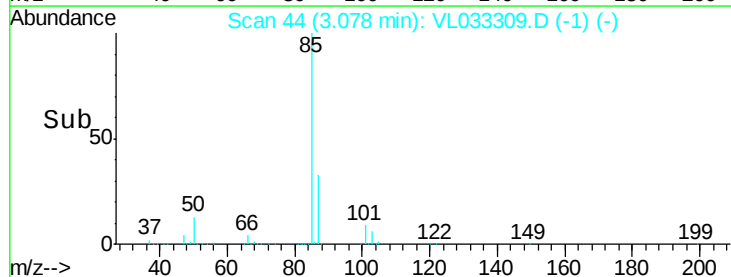
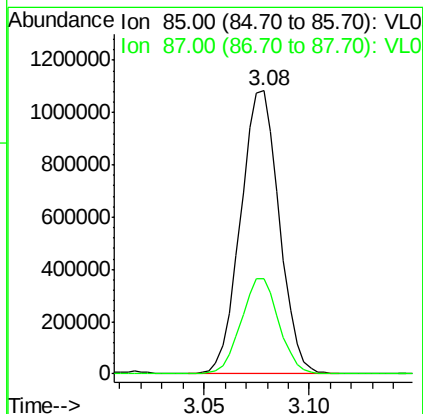
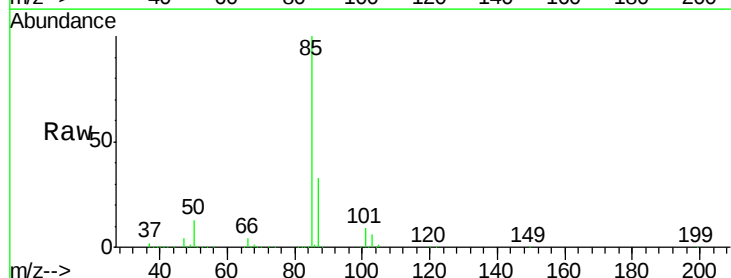
RT: 3.08 min Scan# 44

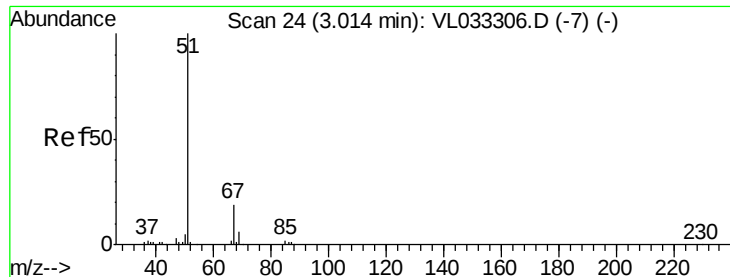
Delta R.T. -0.00 min

Lab File: VL033309.D

Acq: 14 Mar 2019 10:16

Tgt Ion:	85	Resp:	1376034
Ion Ratio	Lower	Upper	
85	100		
87	33.5	25.8	38.8





#3

Chlorodifluoromethane

Concen: 8.979 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033309.D

Acq: 14 Mar 2019 10:16

Instrument :

MSVOA_L

ClientSampleId :

VL0313ABS01

Tgt Ion: 51 Resp: 864632

Ion Ratio Lower Upper

51 100

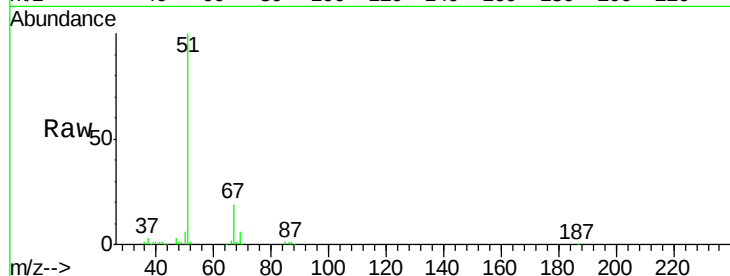
67 18.7 14.9 22.3

Manual Integrations

APPROVED

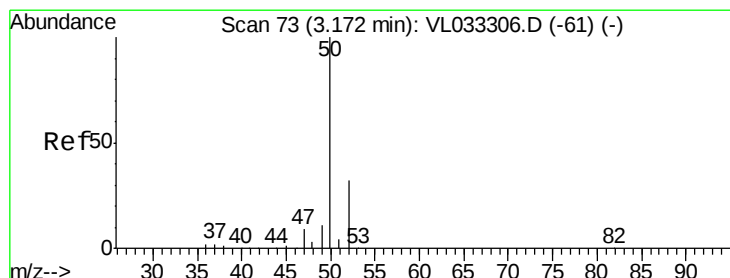
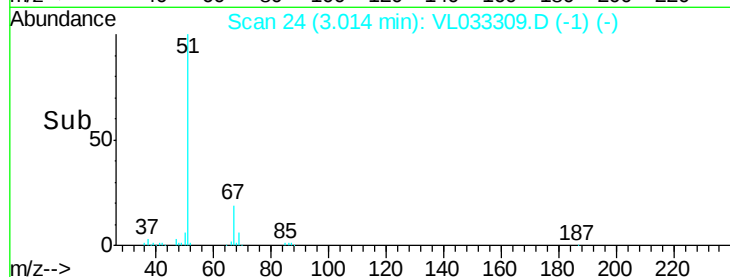
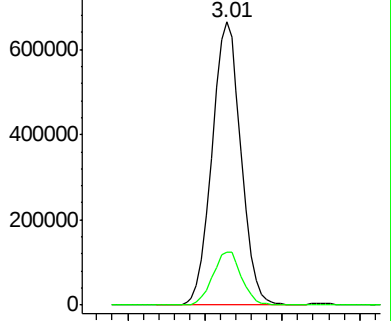
MMDadoda

3/15/2019 10:41:58 PM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 8.814 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033309.D

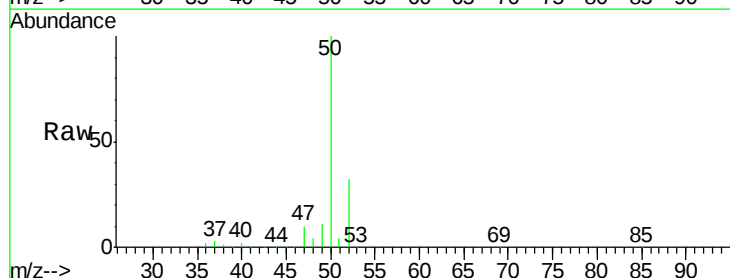
Acq: 14 Mar 2019 10:16

Tgt Ion: 50 Resp: 459471

Ion Ratio Lower Upper

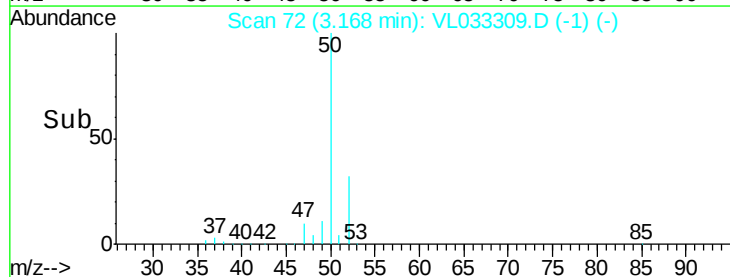
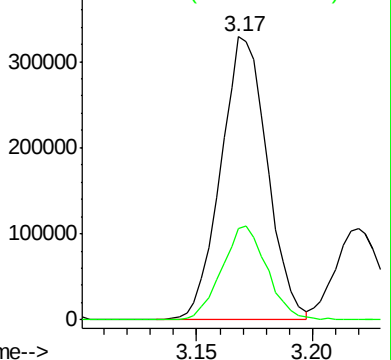
50 100

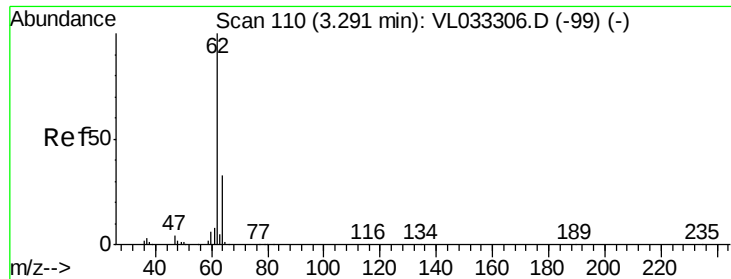
52 32.2 25.7 38.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.691 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033309.D

Acq: 14 Mar 2019 10:16

Instrument :

MSVOA_L

ClientSampleId :

VL0313ABS01

Tgt Ion: 62 Resp: 453514

Ion Ratio Lower Upper

62 100

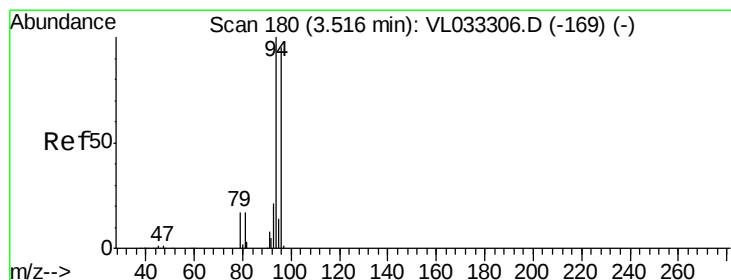
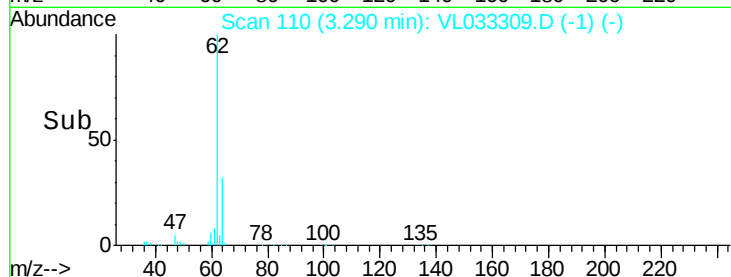
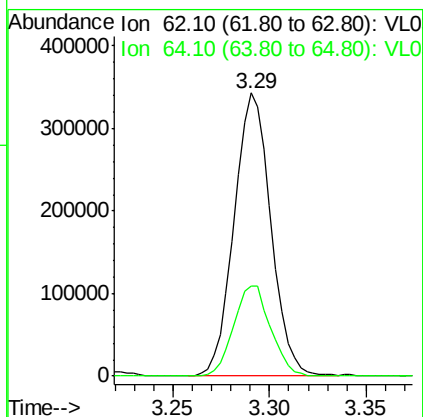
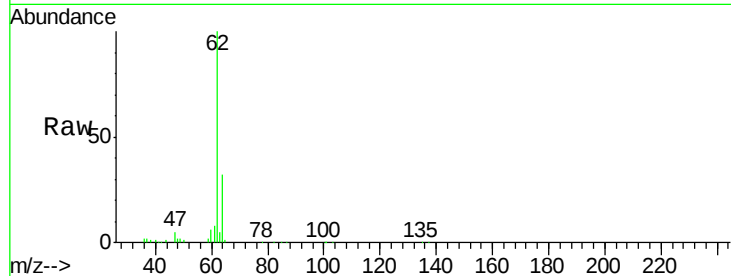
64 32.0 25.5 38.3

Manual Integrations

APPROVED

MMDadoda

3/15/2019 10:41:58 PM



#6

Bromomethane

Concen: 9.241 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033309.D

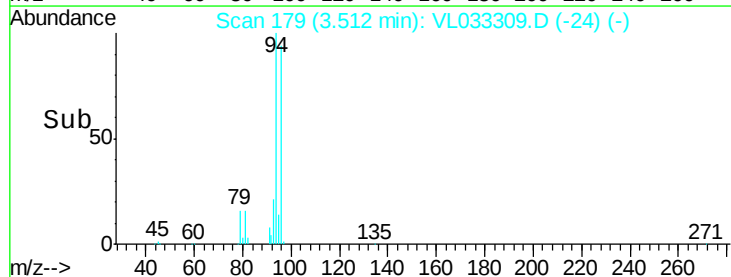
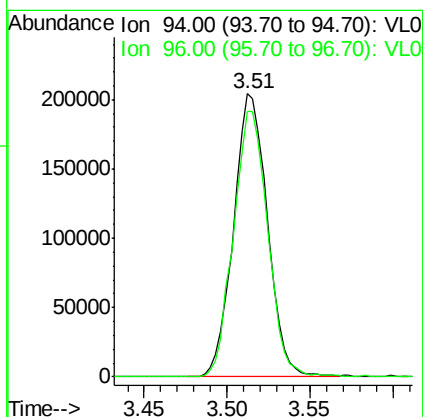
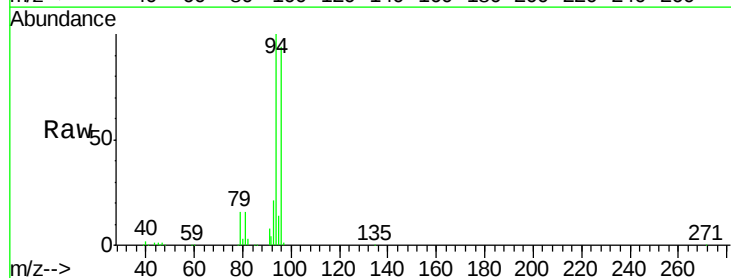
Acq: 14 Mar 2019 10:16

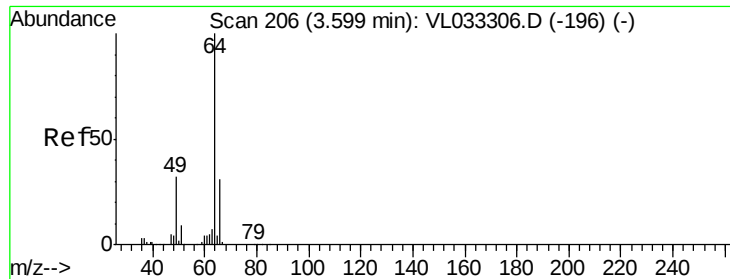
Tgt Ion: 94 Resp: 290337

Ion Ratio Lower Upper

94 100

96 93.8 76.2 114.4





#7

Chloroethane

Concen: 9.261 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033309.D

Acq: 14 Mar 2019 10:16

Instrument :

MSVOA_L

ClientSampleId :

VL0313ABS01

Tgt Ion: 64 Resp: 173041

Ion Ratio Lower Upper

64 100

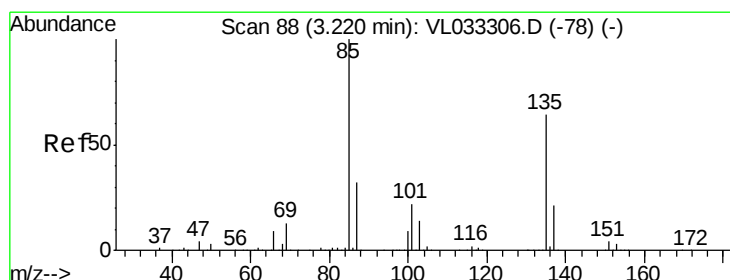
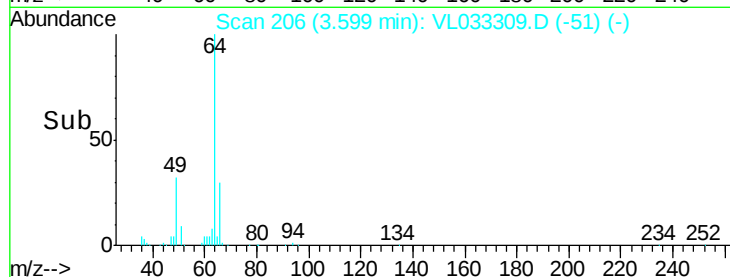
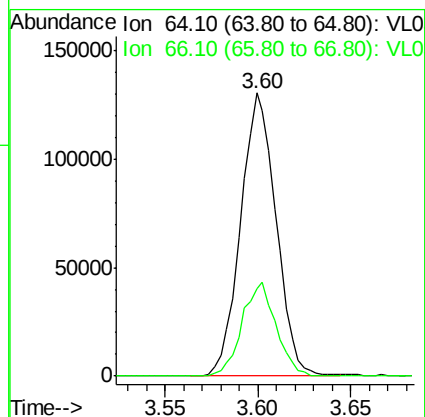
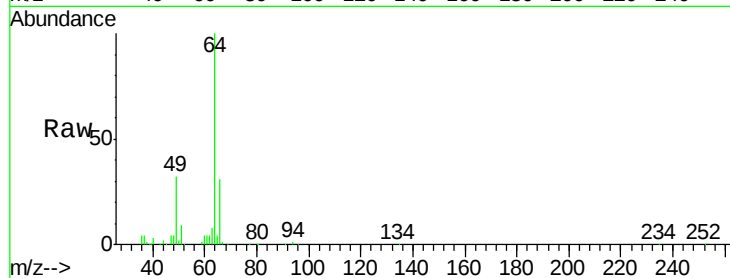
66 31.0 24.9 37.3

Manual Integrations

APPROVED

MMDadoda

3/15/2019 10:41:58 PM



#8

Dichlorotetrafluoroethane

Concen: 9.045 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033309.D

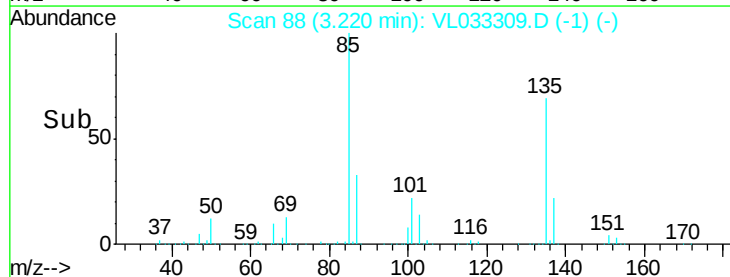
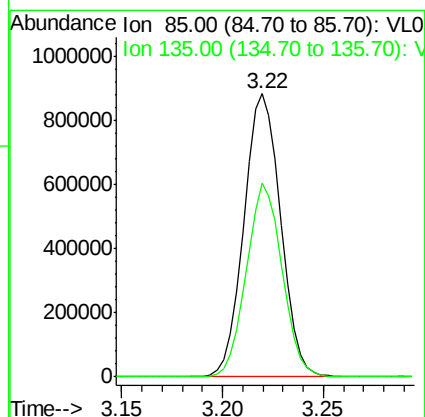
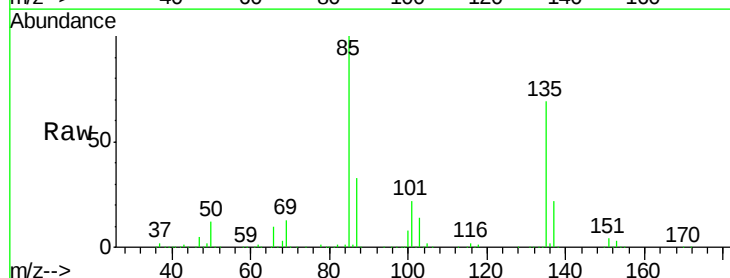
Acq: 14 Mar 2019 10:16

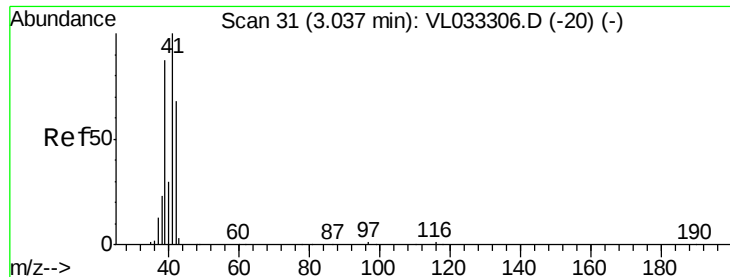
Tgt Ion: 85 Resp: 1128243

Ion Ratio Lower Upper

85 100

135 67.0 52.9 79.3





#9

Propene

Concen: 8.664 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.00 min

Lab File: VL033309.D

Acq: 14 Mar 2019 10:16

Instrument :

MSVOA_L

ClientSampleId :

VL0313ABS01

Tgt Ion: 41 Resp: 376517

Ion Ratio Lower Upper

41 100

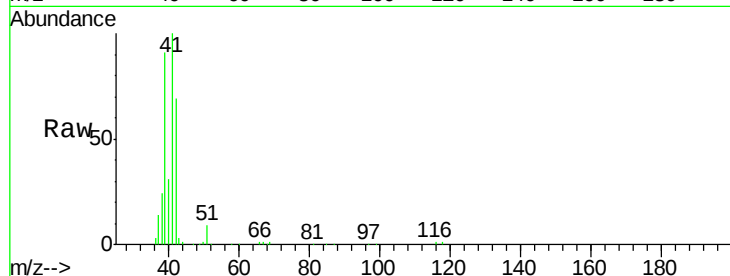
42 69.8 54.4 81.6

Manual Integrations

APPROVED

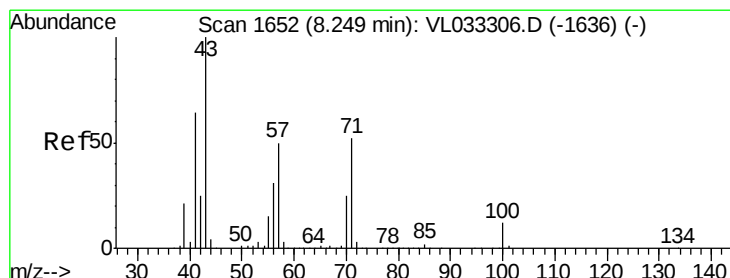
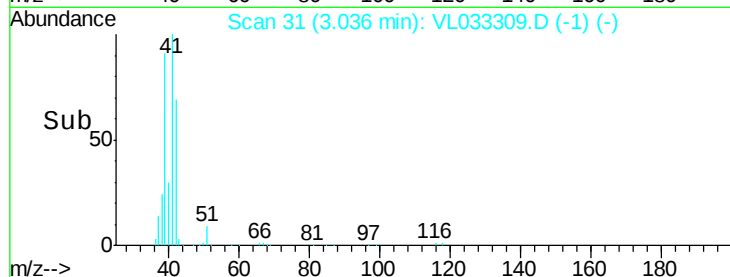
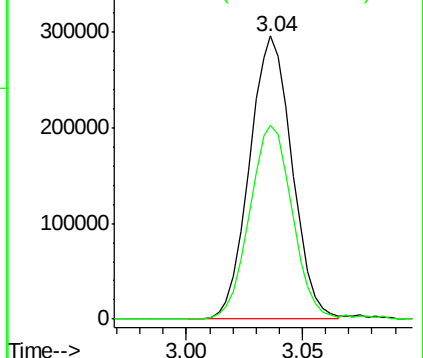
MMDadoda

3/15/2019 10:41:58 PM



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 9.430 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.00 min

Lab File: VL033309.D

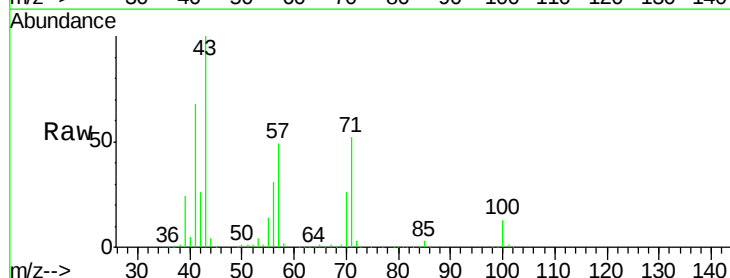
Acq: 14 Mar 2019 10:16

Tgt Ion: 43 Resp: 1001765

Ion Ratio Lower Upper

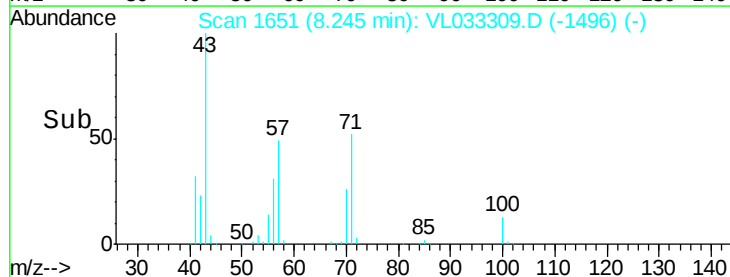
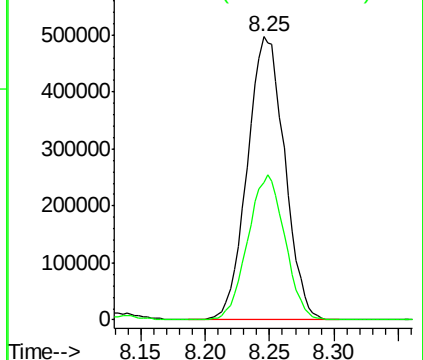
43 100

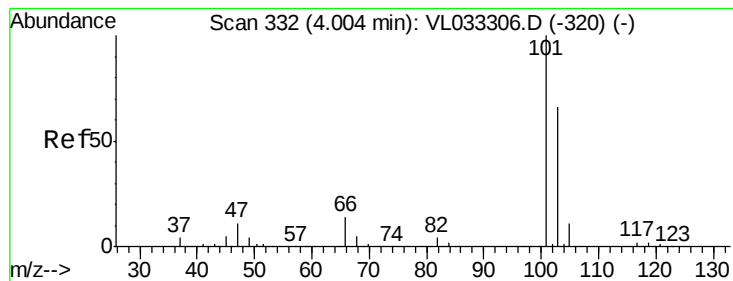
57 50.8 39.6 59.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 9.217 ppbv

RT: 4.00 min Scan# 332

Delta R.T. -0.00 min

Lab File: VL033309.D

Acq: 14 Mar 2019 10:16

Instrument :

MSVOA_L

ClientSampleId :

VL0313ABS01

Tgt Ion:101 Resp: 1264908

Ion Ratio Lower Upper

101 100

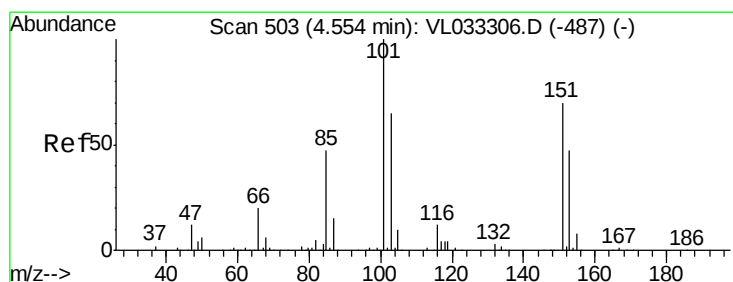
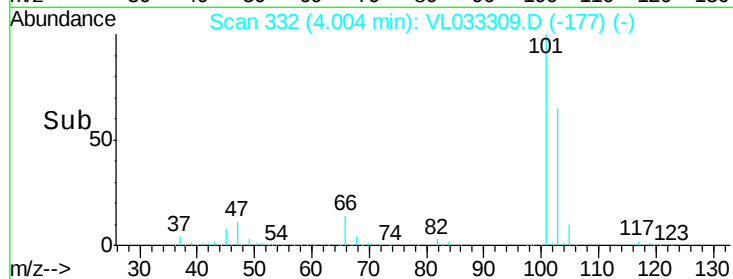
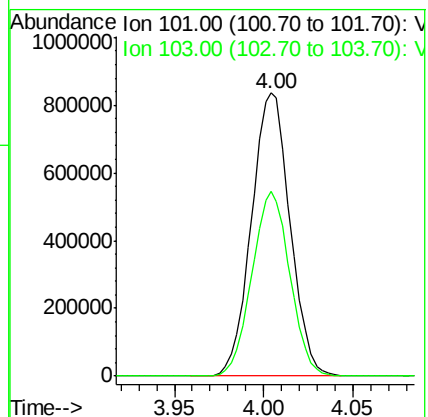
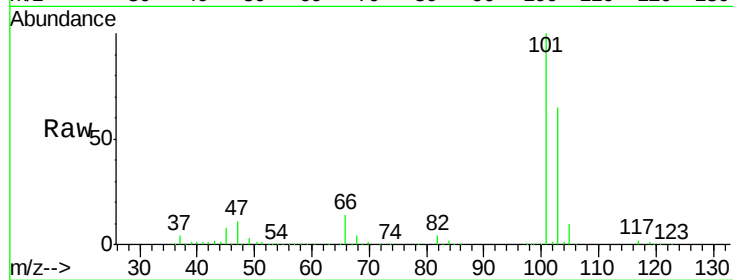
103 65.4 52.5 78.7

Manual Integrations

APPROVED

MMDadoda

3/15/2019 10:41:58 PM



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.080 ppbv

RT: 4.55 min Scan# 502

Delta R.T. -0.00 min

Lab File: VL033309.D

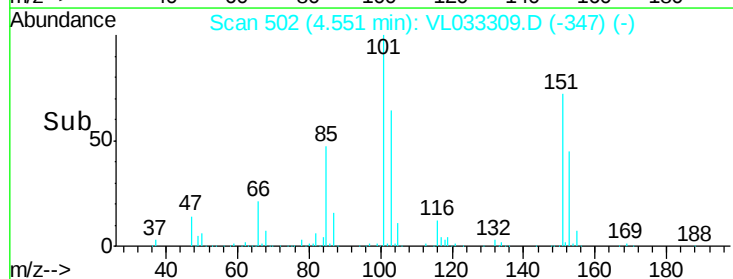
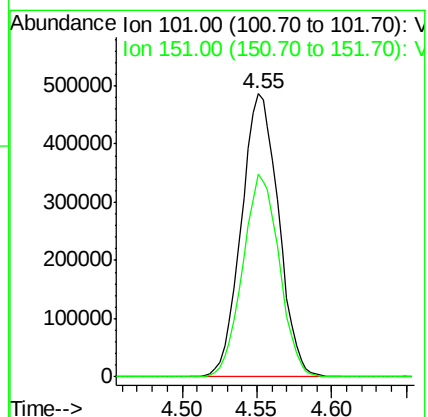
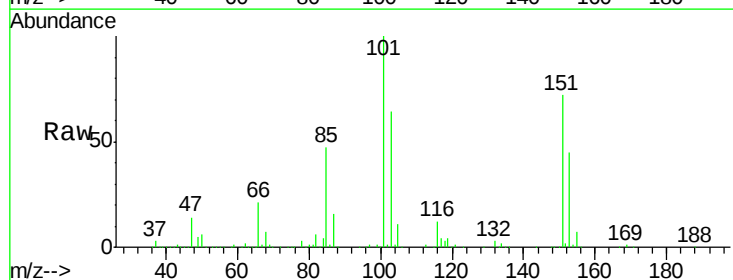
Acq: 14 Mar 2019 10:16

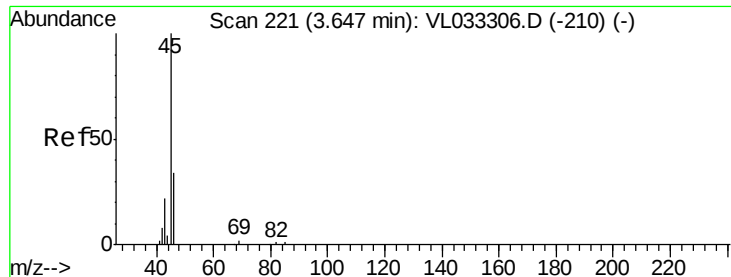
Tgt Ion:101 Resp: 840148

Ion Ratio Lower Upper

101 100

151 70.5 57.2 85.8





#13

Ethanol

Concen: 6.456 ppbv

RT: 3.65 min Scan# 221

Delta R.T. -0.00 min

Lab File: VL033309.D

Acq: 14 Mar 2019 10:16

Instrument :

MSVOA_L

ClientSampleId :

VL0313ABS01

Tgt Ion: 45 Resp: 85871

Ion Ratio Lower Upper

45 100

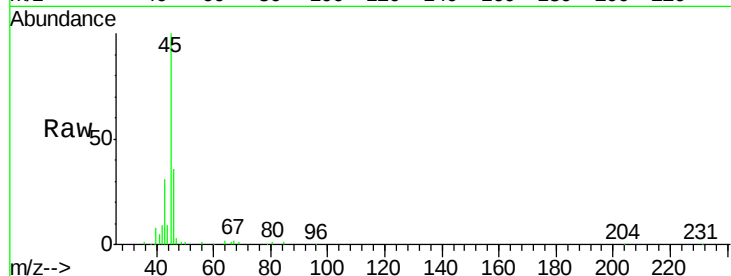
46 36.4 14.9 59.5

Manual Integrations

APPROVED

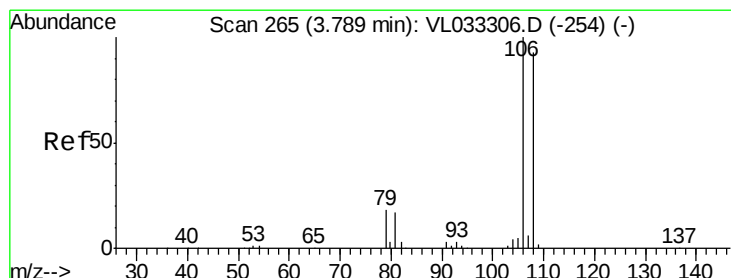
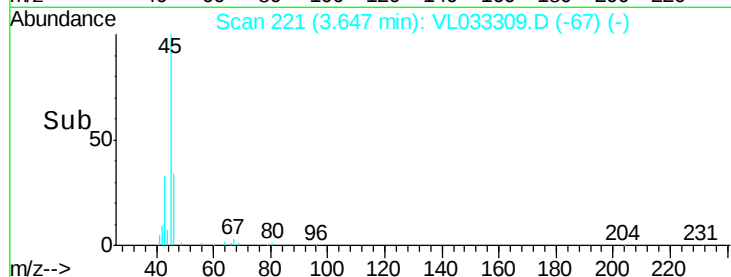
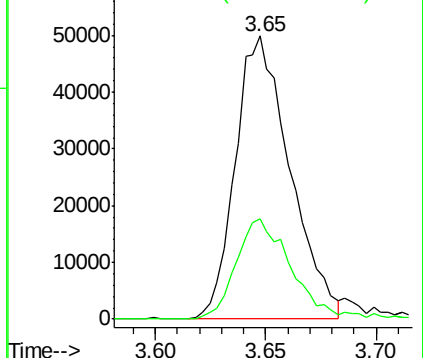
MMDadoda

3/15/2019 10:41:58 PM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 9.654 ppbv

RT: 3.79 min Scan# 264

Delta R.T. -0.00 min

Lab File: VL033309.D

Acq: 14 Mar 2019 10:16

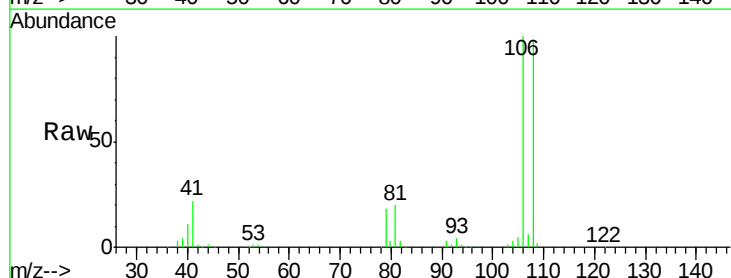
Tgt Ion: 108 Resp: 371276

Ion Ratio Lower Upper

108 100

106 105.8 85.1 127.7

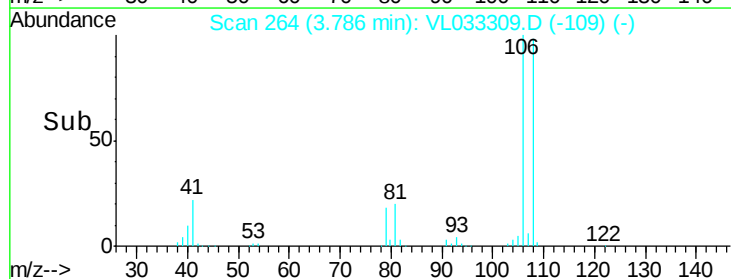
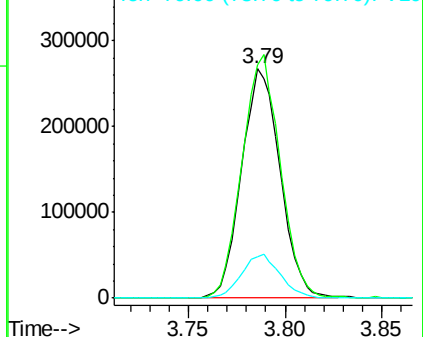
79 19.3 15.0 22.6

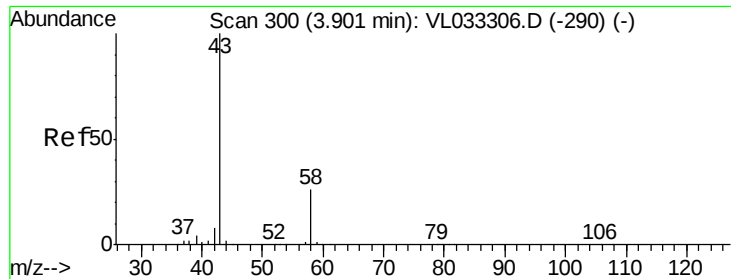


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 8.061 ppbv

RT: 3.90 min Scan# 300

Delta R.T. -0.00 min

Lab File: VL033309.D

Acq: 14 Mar 2019 10:16

Instrument :

MSVOA_L

ClientSampleId :

VL0313ABS01

Tgt Ion: 43 Resp: 818167

Ion Ratio Lower Upper

43 100

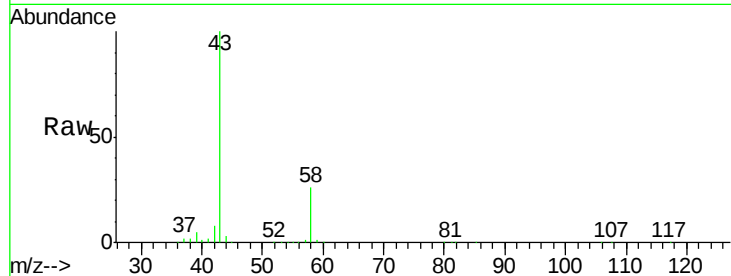
58 25.6 20.6 31.0

Manual Integrations

APPROVED

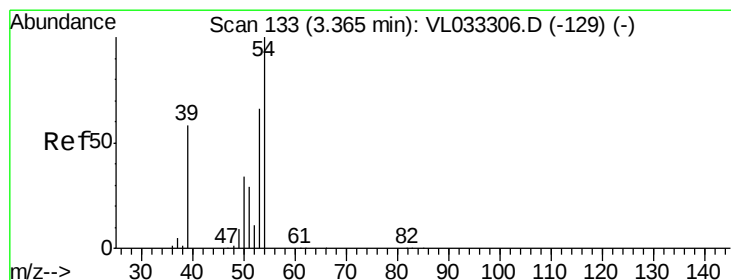
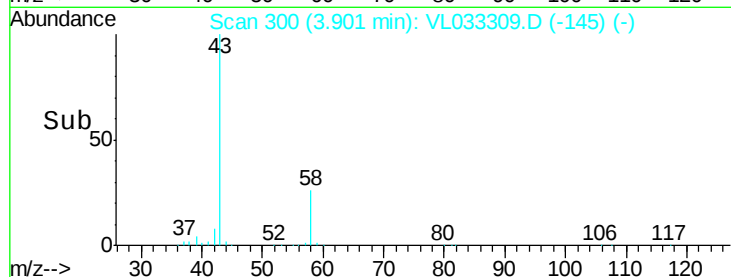
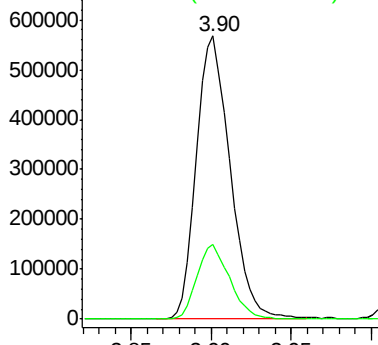
MMDadoda

3/15/2019 10:41:58 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 9.114 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033309.D

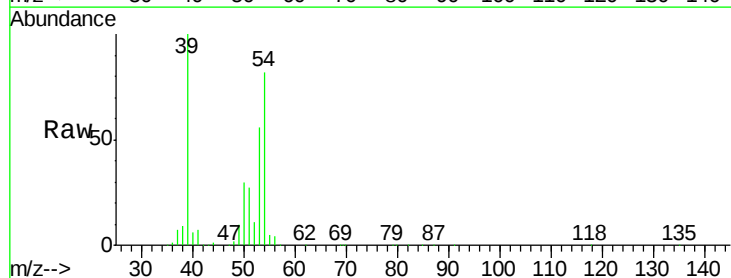
Acq: 14 Mar 2019 10:16

Tgt Ion: 39 Resp: 378790

Ion Ratio Lower Upper

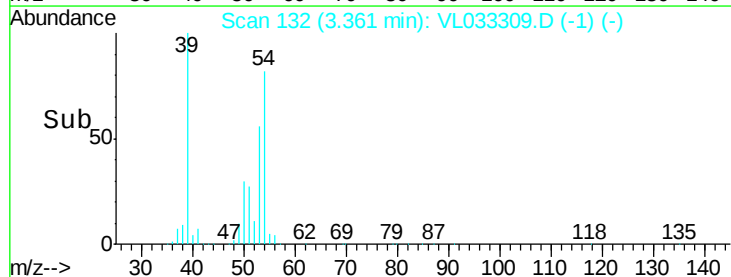
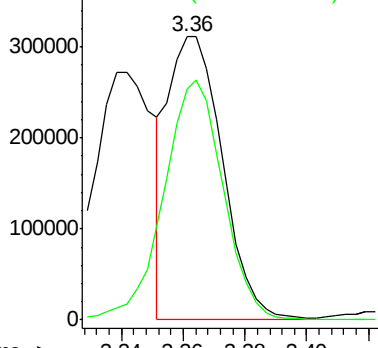
39 100

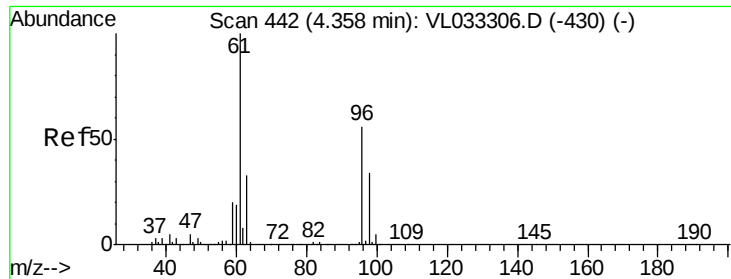
54 93.7 68.4 102.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

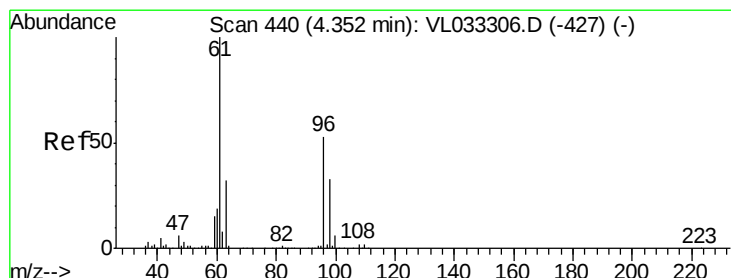
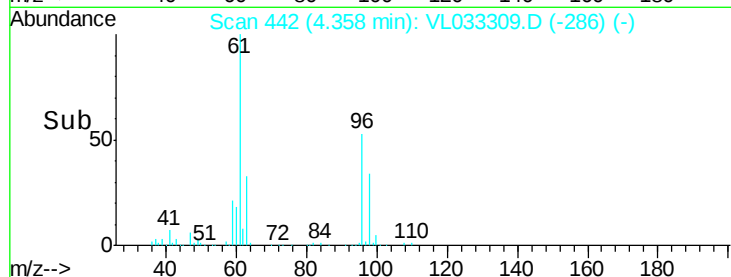
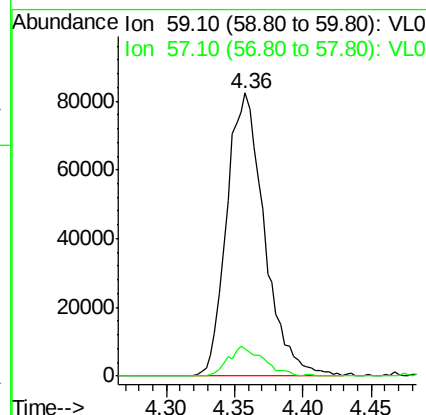
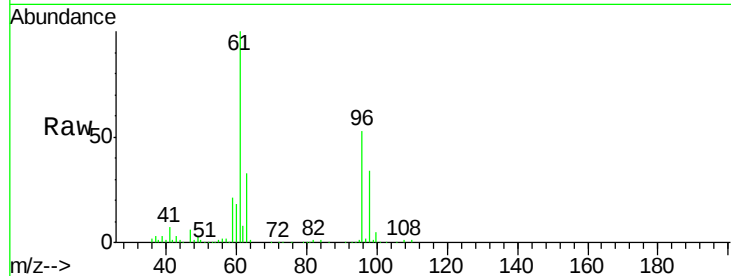
tert-Butyl alcohol
Concen: 8.932 ppbv
RT: 4.36 min Scan# 442
Delta R.T. 0.00 min
Lab File: VL033309.D
Acq: 14 Mar 2019 10:16

Instrument :
MSVOA_L
ClientSampleId :
VL0313ABS01

Tgt Ion	Ratio	Resp	Lower	Upper
59	100	158111		
57	9.9	7.4	11.2	

Manual Integrations
APPROVED

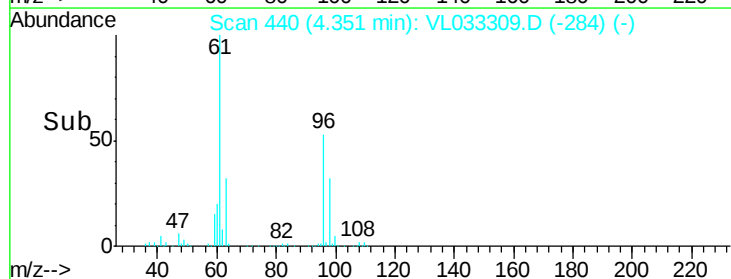
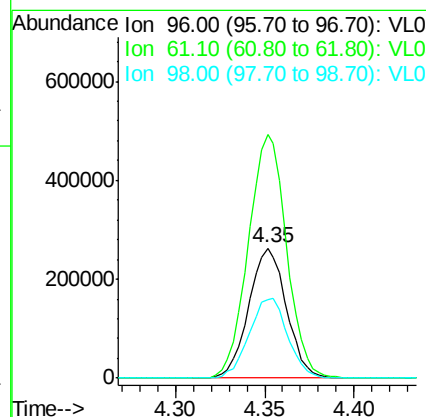
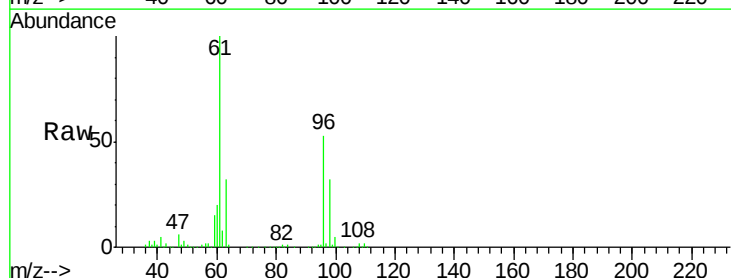
MMDadoda
3/15/2019 10:41:58 PM

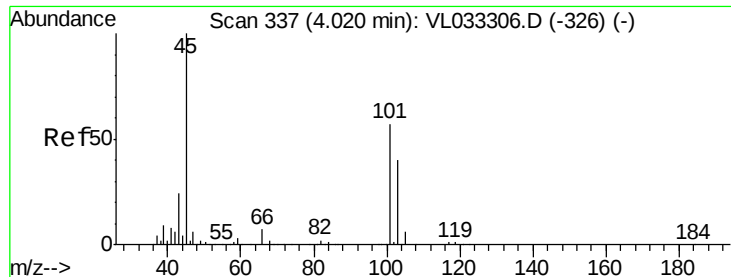


#18

1,1-Dichloroethene
Concen: 9.488 ppbv
RT: 4.35 min Scan# 440
Delta R.T. 0.00 min
Lab File: VL033309.D
Acq: 14 Mar 2019 10:16

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	387722		
61	187.1	152.3	228.5	
98	60.4	48.6	72.8	





#19

Isopropyl Alcohol

Concen: 8.637 ppbv

RT: 4.02 min Scan# 337

Delta R.T. -0.00 min

Lab File: VL033309.D

Acq: 14 Mar 2019 10:16

Instrument :

MSVOA_L

ClientSampleId :

VL0313ABS01

Tgt Ion: 45 Resp: 536310

Ion Ratio Lower Upper

45 100

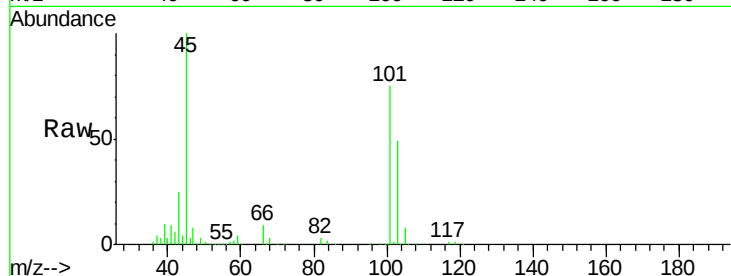
58 1.9 1.4 2.0

Manual Integrations

APPROVED

MMDadoda

3/15/2019 10:41:58 PM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.02

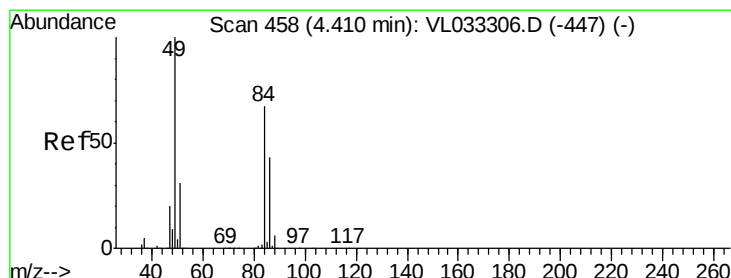
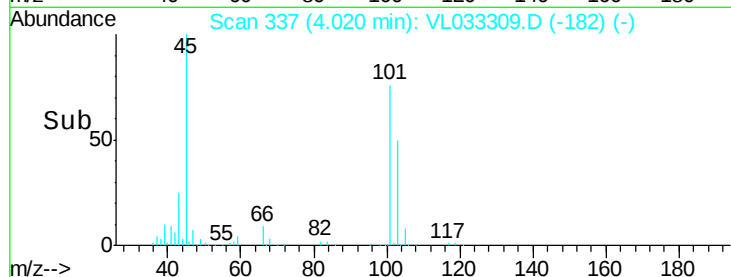
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 7.887 ppbv

RT: 4.41 min Scan# 458

Delta R.T. -0.00 min

Lab File: VL033309.D

Acq: 14 Mar 2019 10:16

Tgt Ion: 84 Resp: 324080

Ion Ratio Lower Upper

84 100

49 149.2 115.4 173.2

51 43.9 35.7 53.5

86 68.0 52.6 78.8

Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

500000

400000

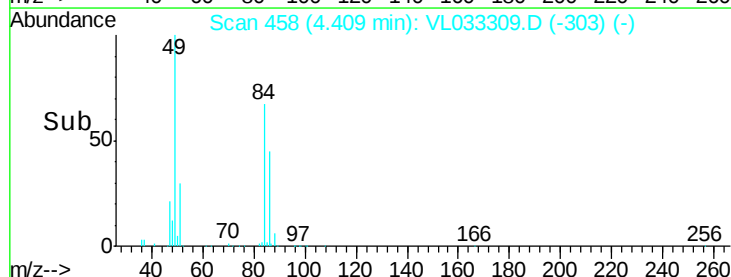
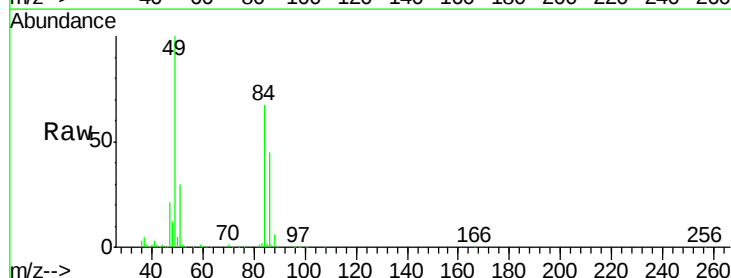
300000

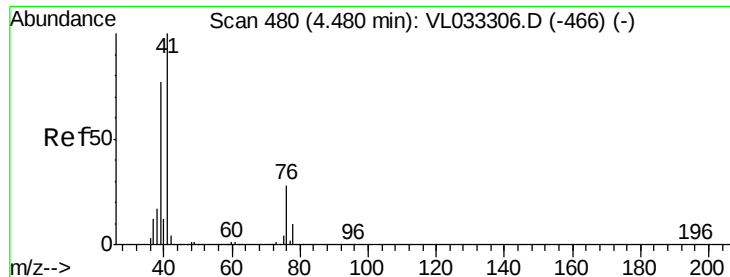
200000

100000

0

Time-->





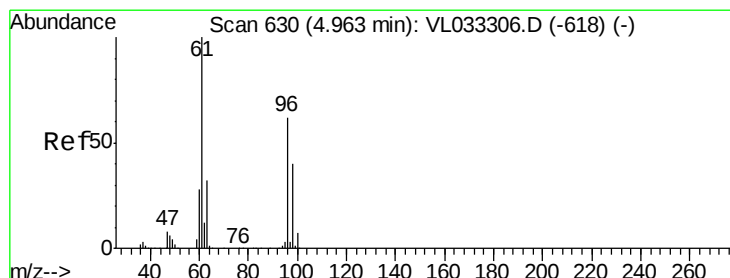
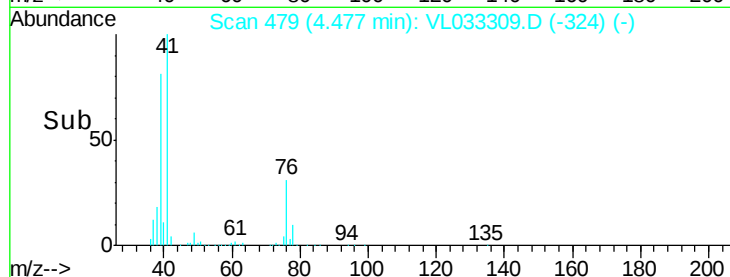
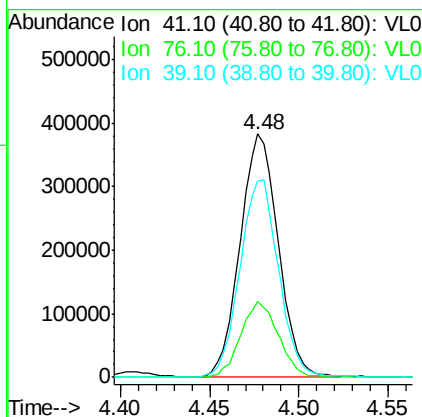
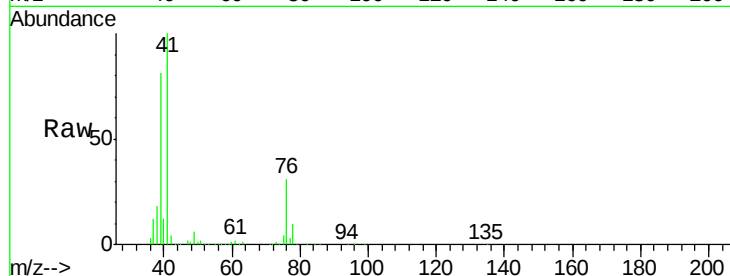
#21
 Allyl Chloride
 Concen: 9.350 ppbv
 RT: 4.48 min Scan# 479
 Delta R.T. -0.00 min
 Lab File: VL033309.D
 Acq: 14 Mar 2019 10:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0313ABS01

Tgt Ion	Ratio	Lower	Upper
41	100		
76	30.8	24.3	36.5
39	82.6	64.4	96.6

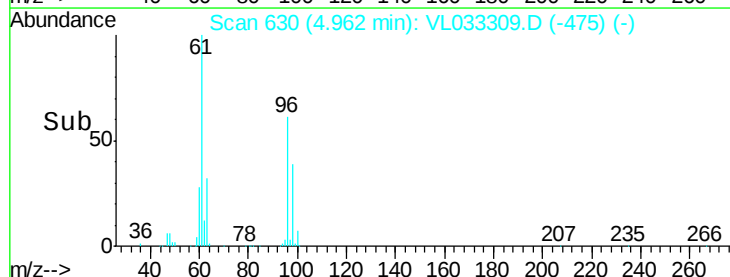
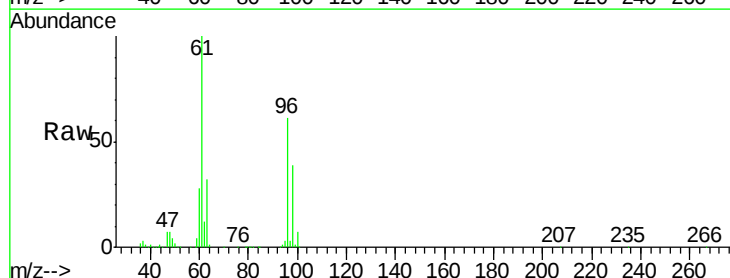
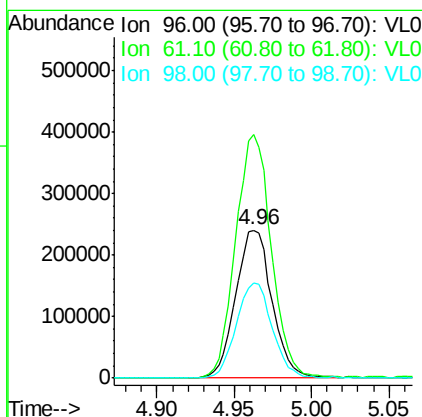
Manual Integrations
 APPROVED

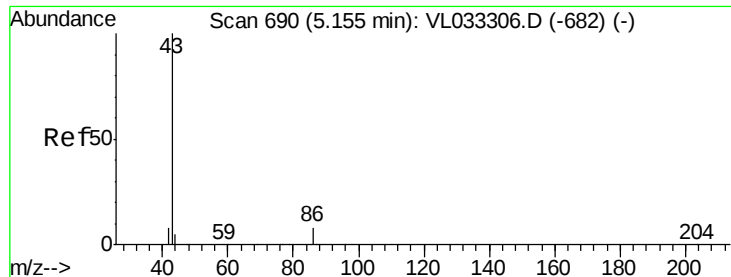
MMDadoda
 3/15/2019 10:41:58 PM



#22
 trans-1,2-Dichloroethene
 Concen: 9.520 ppbv
 RT: 4.96 min Scan# 630
 Delta R.T. -0.00 min
 Lab File: VL033309.D
 Acq: 14 Mar 2019 10:16

Tgt Ion	Ratio	Lower	Upper
96	100		
61	164.3	132.7	199.1
98	64.4	52.4	78.6





#23

Vinyl Acetate

Concen: 9.662 ppbv

RT: 5.16 min Scan# 690

Delta R.T. -0.00 min

Lab File: VL033309.D

Acq: 14 Mar 2019 10:16

Instrument :

MSVOA_L

ClientSampleId :

VL0313ABS01

Tgt Ion: 43 Resp: 1423772

Ion Ratio Lower Upper

43 100

86 7.4 5.8 8.8

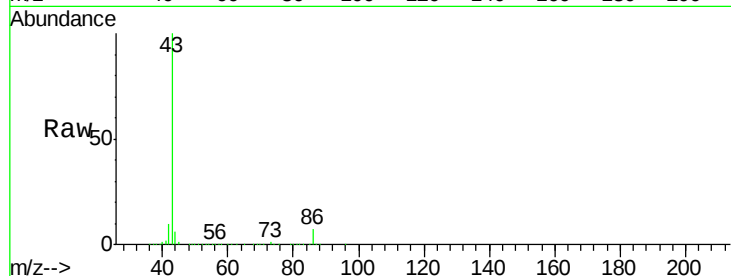
42 9.7 7.8 11.8

44 5.7 4.1 6.1

Manual Integrations
APPROVED

MMDadoda

3/15/2019 10:41:58 PM

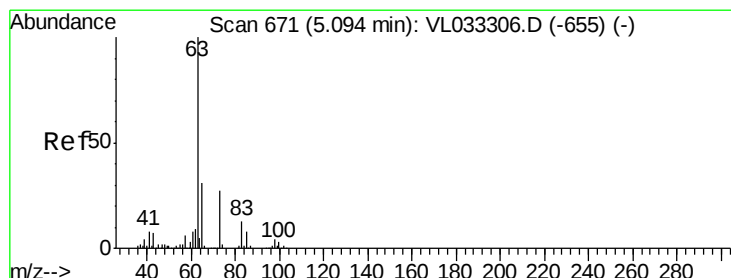
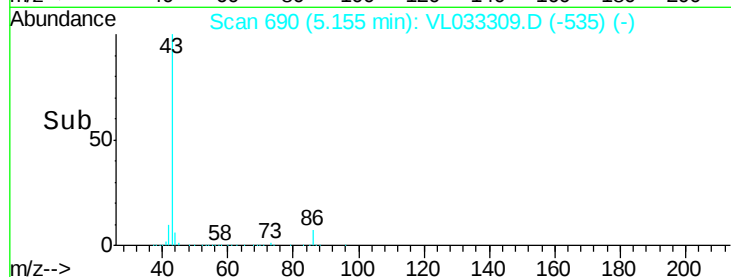
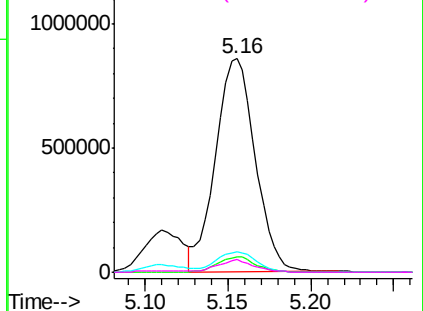


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.301 ppbv

RT: 5.09 min Scan# 670

Delta R.T. -0.00 min

Lab File: VL033309.D

Acq: 14 Mar 2019 10:16

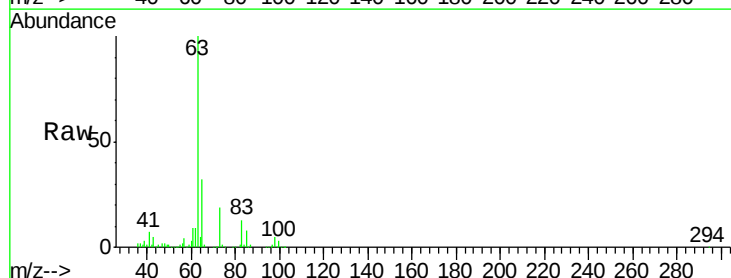
Tgt Ion: 63 Resp: 991474

Ion Ratio Lower Upper

63 100

98 4.5 2.3 6.8

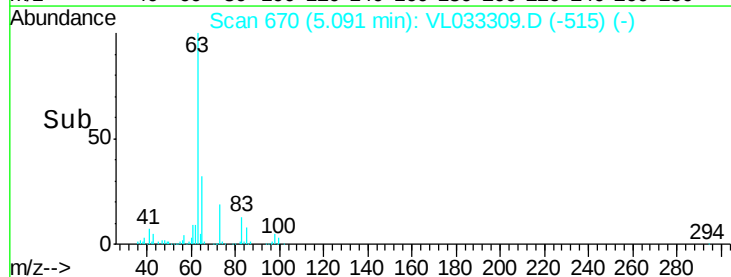
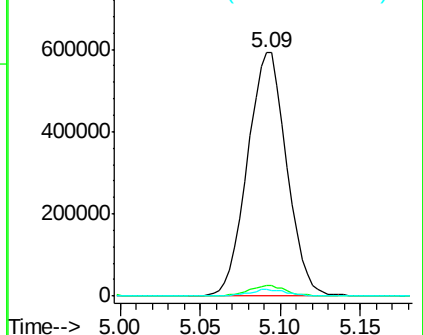
100 2.8 1.3 3.8

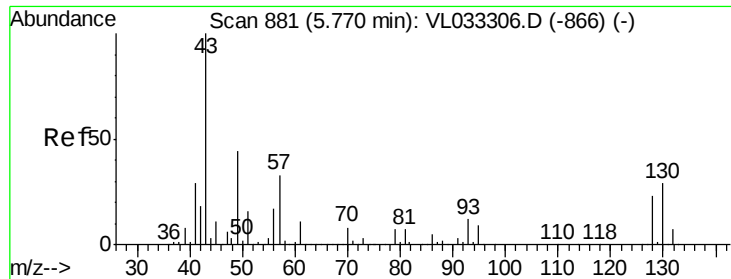


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





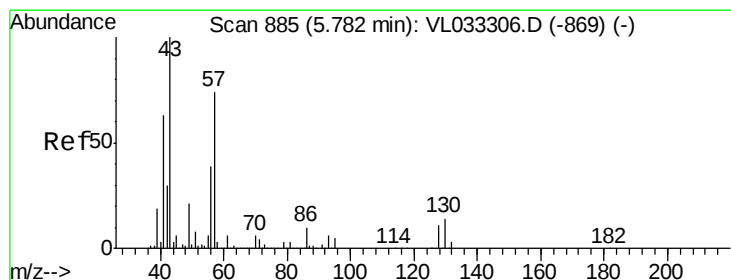
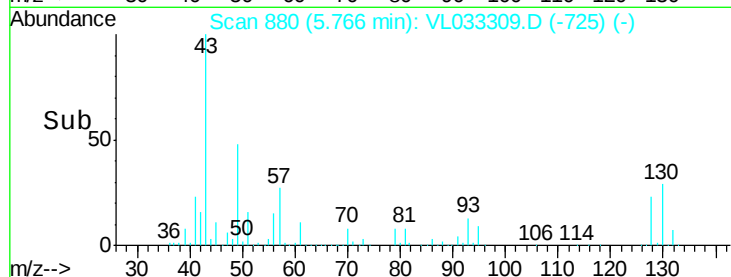
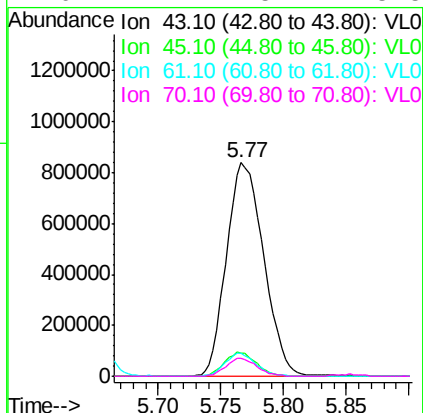
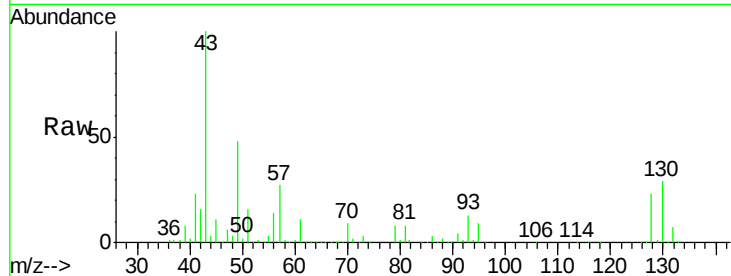
#25
Ethyl Acetate
Concen: 9.342 ppbv
RT: 5.77 min Scan# 880
Delta R.T. -0.00 min
Lab File: VL033309.D
Acq: 14 Mar 2019 10:16

Instrument :
MSVOA_L
ClientSampleId :
VL0313ABS01

Tgt Ion	Ratio	Lower	Upper
43	100		
45	9.8	8.0	12.0
61	9.2	7.5	11.3
70	7.1	5.7	8.5

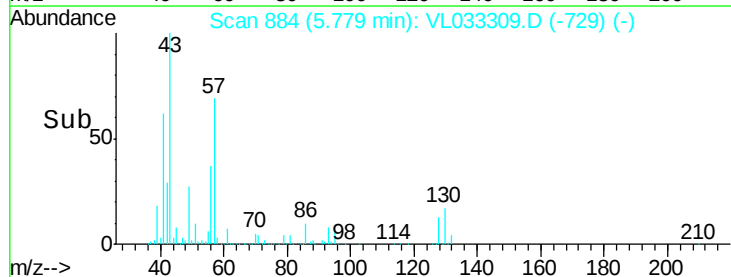
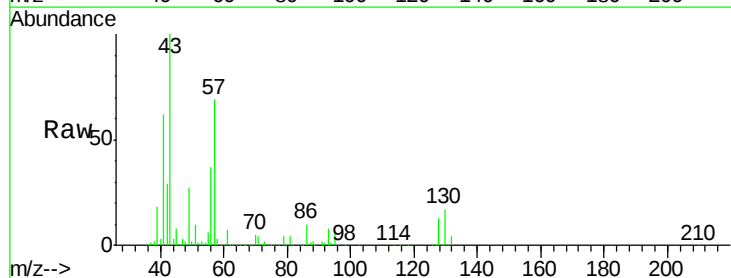
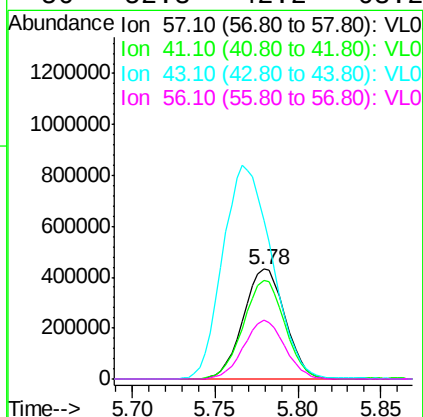
Manual Integrations
APPROVED

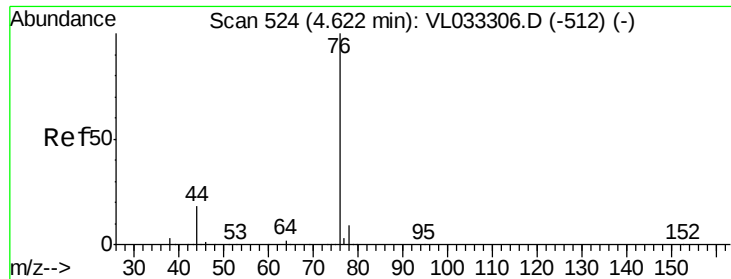
MMDadoda
3/15/2019 10:41:58 PM



#26
Hexane
Concen: 8.827 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033309.D
Acq: 14 Mar 2019 10:16

Tgt Ion	Ratio	Lower	Upper
57	100		
41	89.0	71.6	107.4
43	227.2	179.2	268.8
56	52.3	42.2	63.2





#27

Carbon Disulfide

Concen: 10.424 ppbv

RT: 4.62 min Scan# 523

Delta R.T. -0.00 min

Lab File: VL033309.D

Acq: 14 Mar 2019 10:16

Instrument :

MSVOA_L

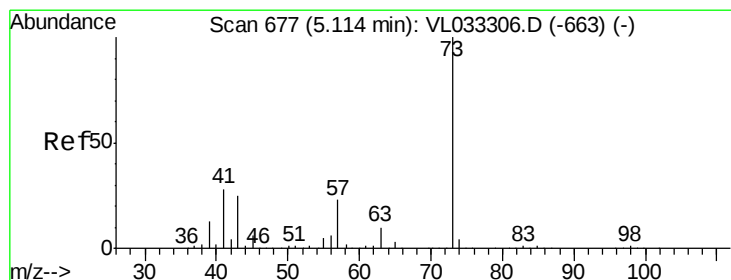
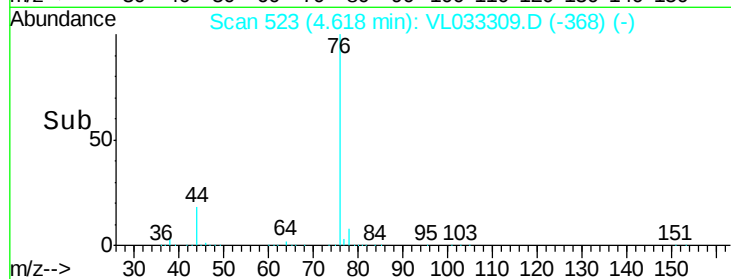
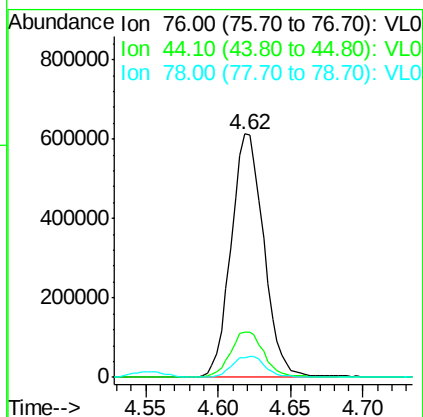
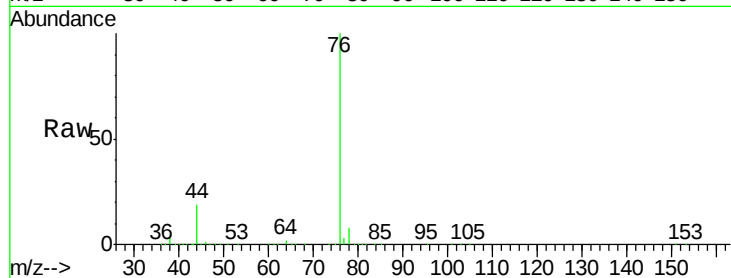
ClientSampleId :

VL0313ABS01

Tgt Ion:	76	Resp:	963042
Ion	Ratio	Lower	Upper
76	100		
44	19.1	14.7	22.1
78	9.0	7.3	10.9

Manual Integrations
APPROVED

MMDadoda
3/15/2019 10:41:58 PM



#28

Methyl tert-Butyl Ether

Concen: 9.420 ppbv

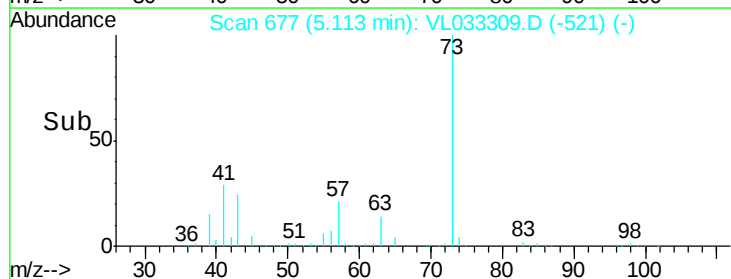
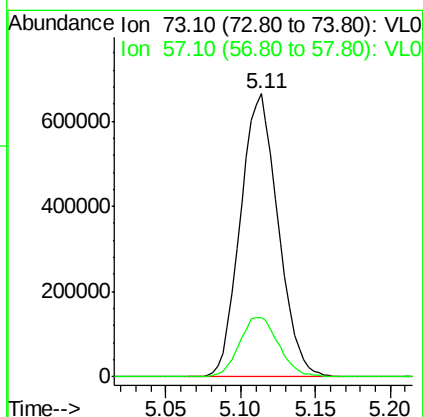
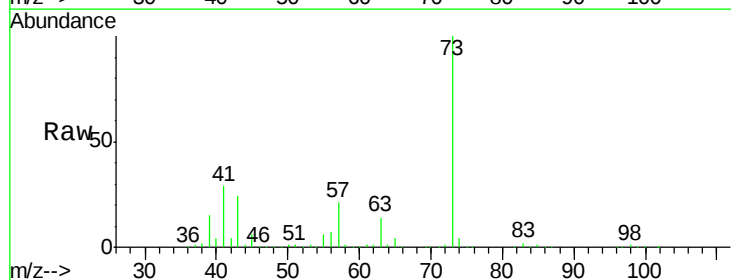
RT: 5.11 min Scan# 677

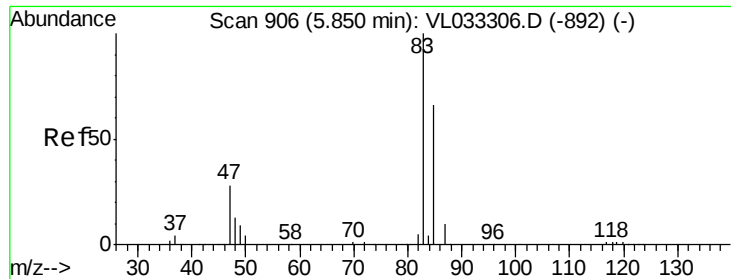
Delta R.T. 0.00 min

Lab File: VL033309.D

Acq: 14 Mar 2019 10:16

Tgt Ion:	73	Resp:	1169916
Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.4	26.0





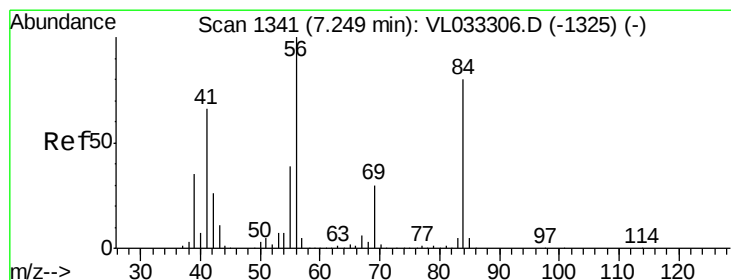
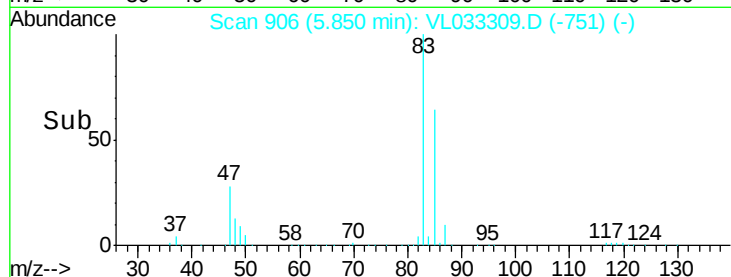
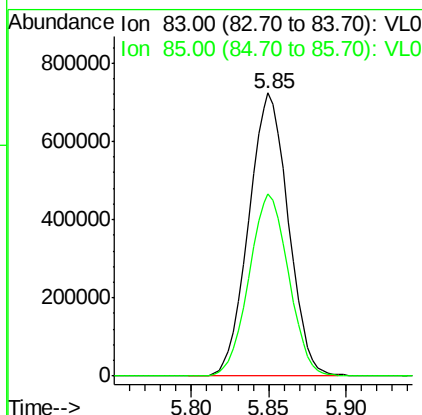
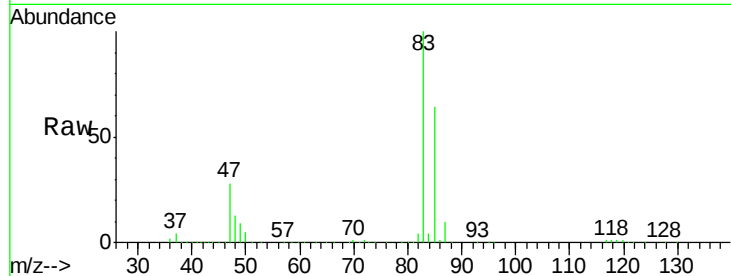
#29
Chloroform
Concen: 9.580 ppbv
RT: 5.85 min Scan# 906
Delta R.T. -0.00 min
Lab File: VL033309.D
Acq: 14 Mar 2019 10:16

Instrument :
MSVOA_L
ClientSampleId :
VL0313ABS01

Tgt Ion: 83 Resp: 1286542
Ion Ratio Lower Upper
83 100
85 64.2 52.2 78.4

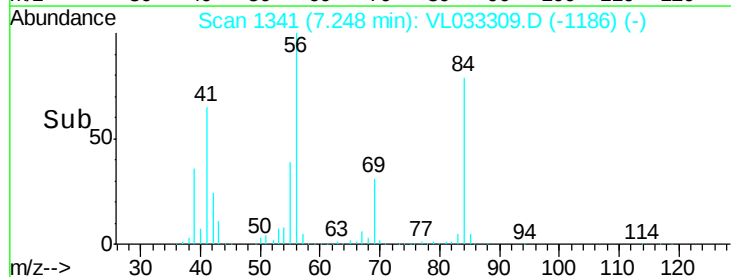
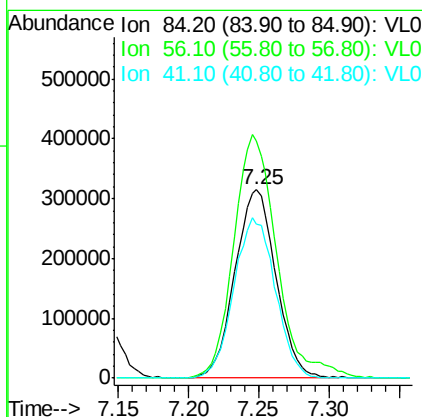
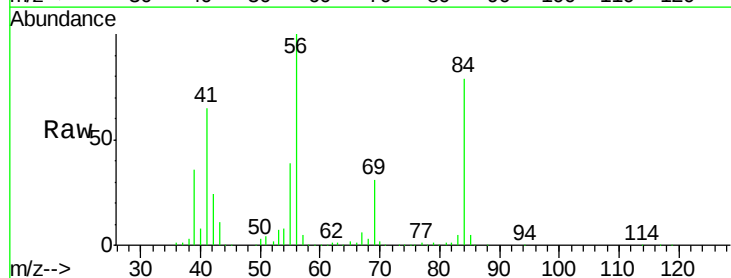
Manual Integrations
APPROVED

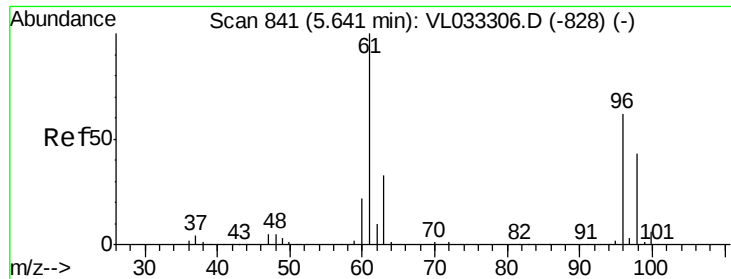
MMDadoda
3/15/2019 10:41:58 PM



#30
Cyclohexane
Concen: 9.570 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. -0.00 min
Lab File: VL033309.D
Acq: 14 Mar 2019 10:16

Tgt Ion: 84 Resp: 641803
Ion Ratio Lower Upper
84 100
56 135.9 109.8 164.8
41 86.0 68.1 102.1





#31

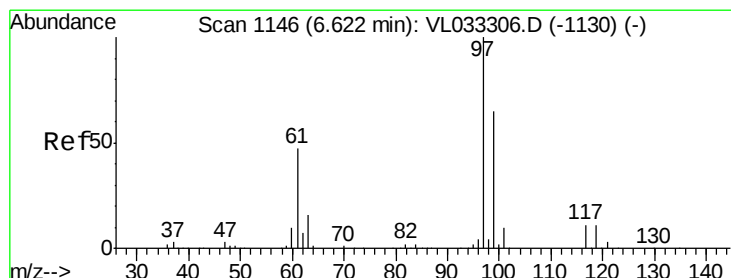
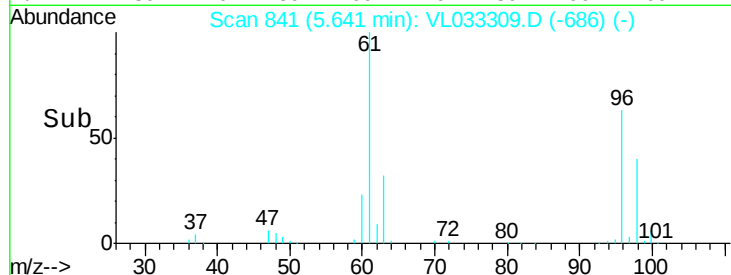
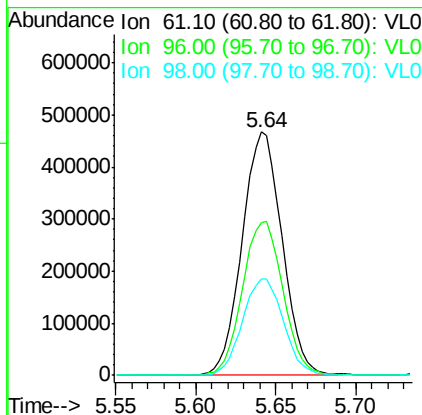
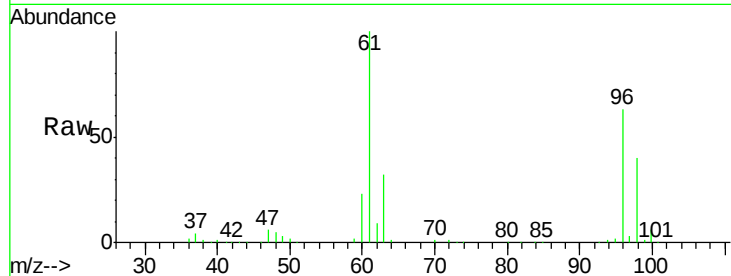
cis-1,2-Dichloroethene
Concen: 9.564 ppbv
RT: 5.64 min Scan# 841
Delta R.T. -0.00 min
Lab File: VL033309.D
Acq: 14 Mar 2019 10:16

Instrument :
MSVOA_L
ClientSampleId :
VL0313ABS01

Tgt Ion	Ratio	Lower	Upper
61	100		
96	62.5	51.8	77.6
98	39.7	32.3	48.5

Manual Integrations
APPROVED

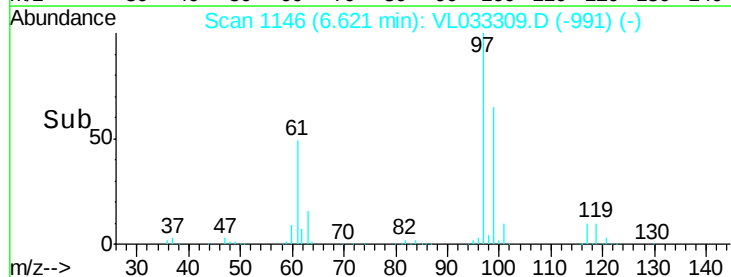
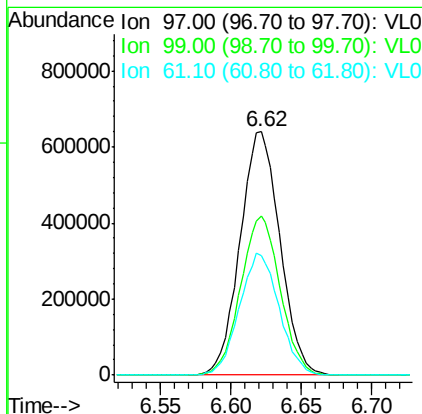
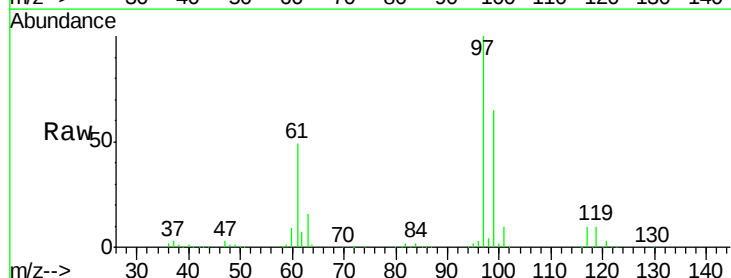
MMDadoda
3/15/2019 10:41:58 PM

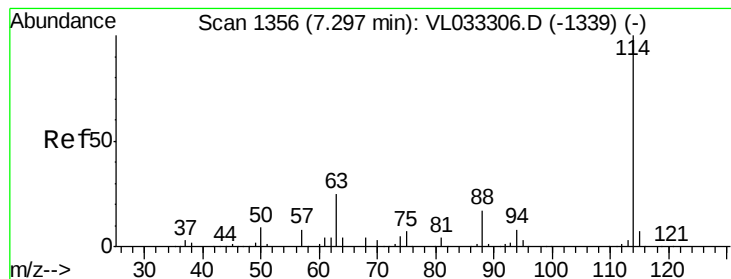


#32

1,1,1-Trichloroethane
Concen: 9.723 ppbv
RT: 6.62 min Scan# 1146
Delta R.T. -0.00 min
Lab File: VL033309.D
Acq: 14 Mar 2019 10:16

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.0	51.6	77.4
61	49.8	39.4	59.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1355

Delta R.T. -0.00 min

Lab File: VL033309.D

Acq: 14 Mar 2019 10:16

Instrument :

MSVOA_L

ClientSampleId :

VL0313ABS01

Tgt Ion: 114 Resp: 1671223

Ion Ratio Lower Upper

114 100

63 27.2 21.3 31.9

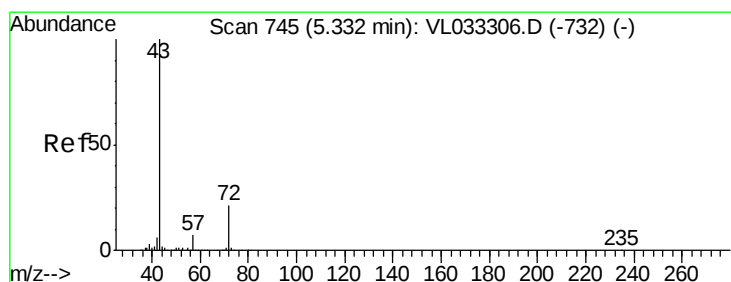
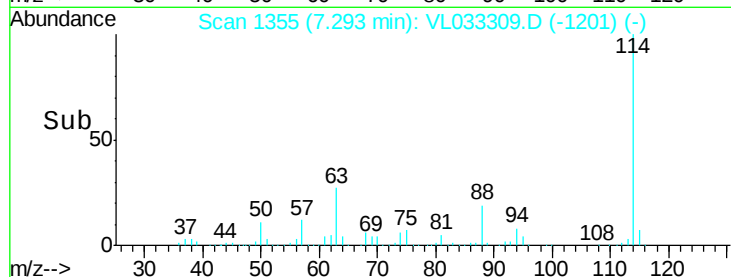
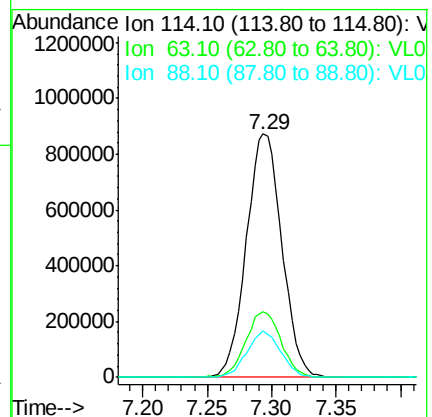
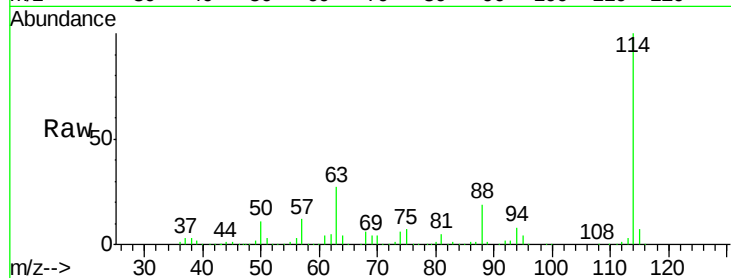
88 18.2 14.5 21.7

Manual Integrations

APPROVED

MMDadoda

3/15/2019 10:41:58 PM



#34

2-Butanone

Concen: 9.639 ppbv

RT: 5.33 min Scan# 744

Delta R.T. -0.00 min

Lab File: VL033309.D

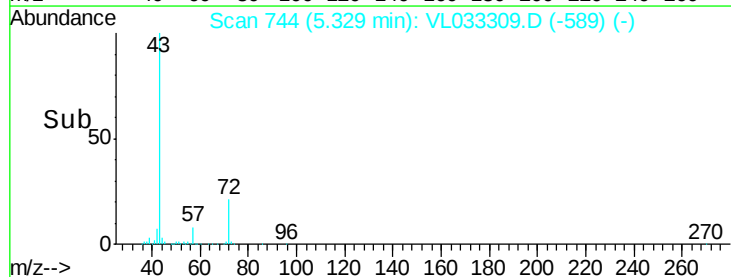
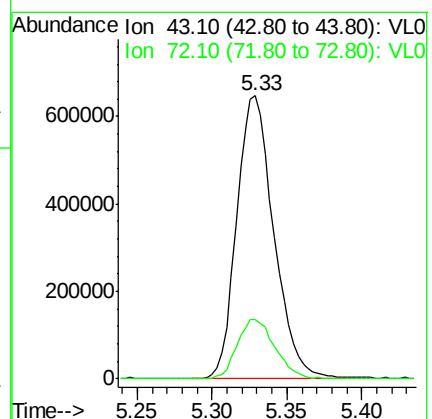
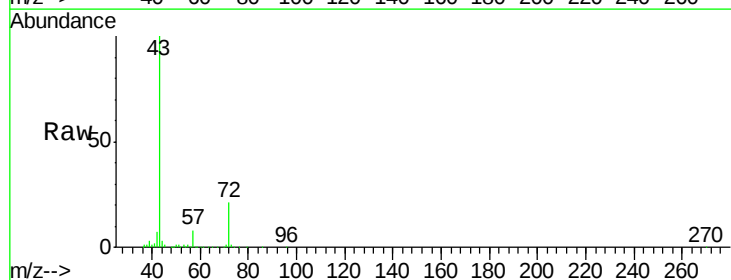
Acq: 14 Mar 2019 10:16

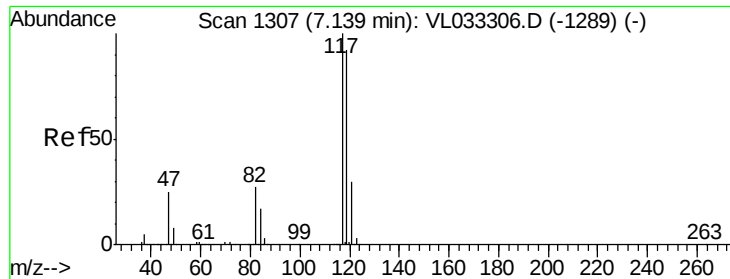
Tgt Ion: 43 Resp: 1113771

Ion Ratio Lower Upper

43 100

72 21.7 17.2 25.8





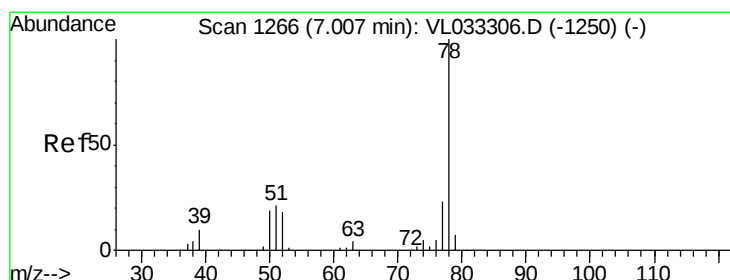
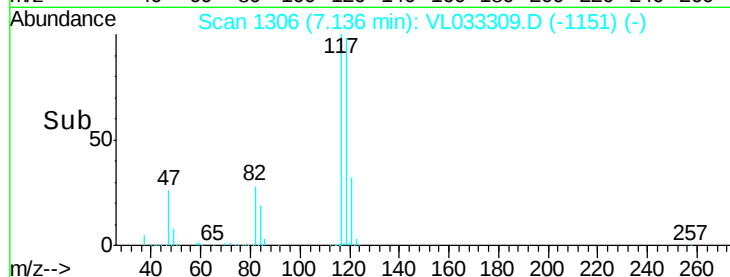
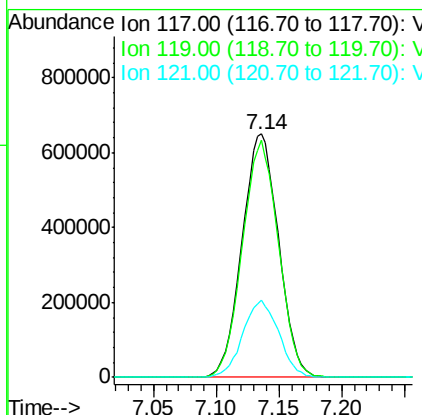
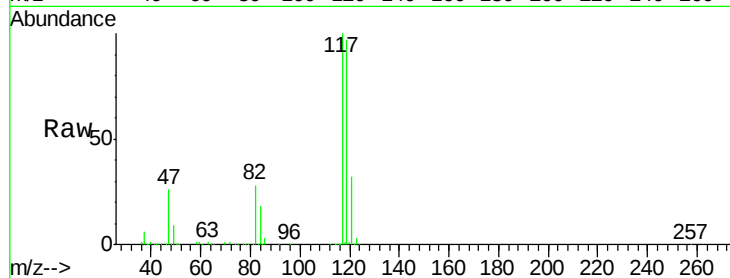
#35
Carbon Tetrachloride
Concen: 10.251 ppbv
RT: 7.14 min Scan# 1306
Delta R.T. -0.00 min
Lab File: VL033309.D
Acq: 14 Mar 2019 10:16

Instrument :
MSVOA_L
ClientSampleId :
VL0313ABS01

Tgt Ion:117 Resp: 1316959
Ion Ratio Lower Upper
117 100
119 97.4 75.9 113.9
121 31.8 25.2 37.8

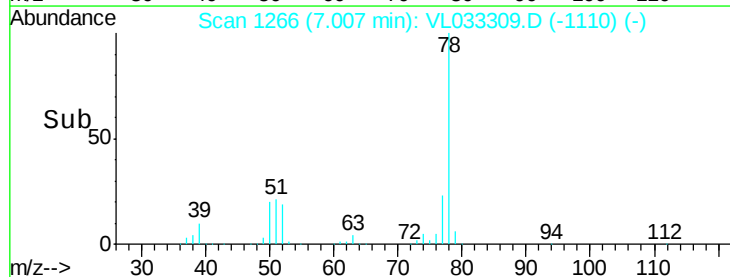
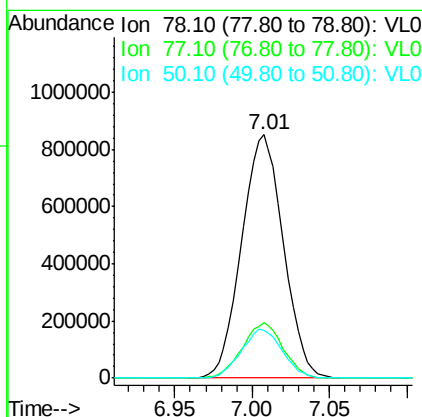
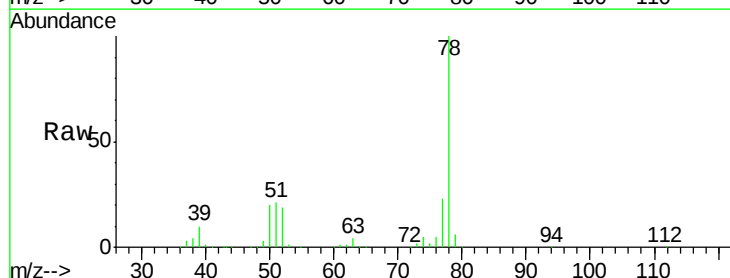
Manual Integrations
APPROVED

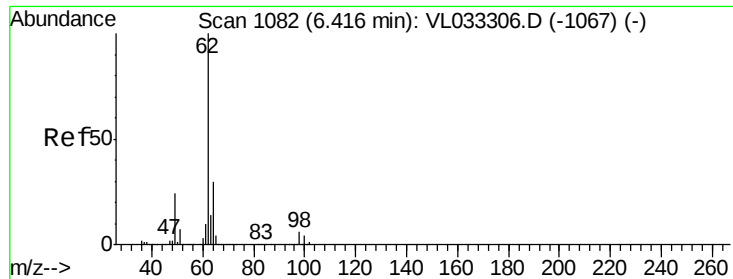
MMDadoda
3/15/2019 10:41:58 PM



#36
Benzene
Concen: 9.739 ppbv
RT: 7.01 min Scan# 1266
Delta R.T. 0.00 min
Lab File: VL033309.D
Acq: 14 Mar 2019 10:16

Tgt Ion: 78 Resp: 1598445
Ion Ratio Lower Upper
78 100
77 22.8 18.6 28.0
50 19.7 15.2 22.8





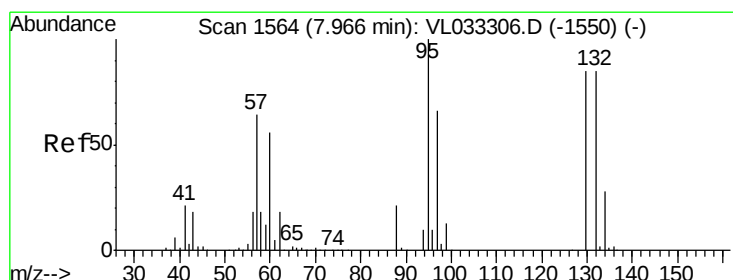
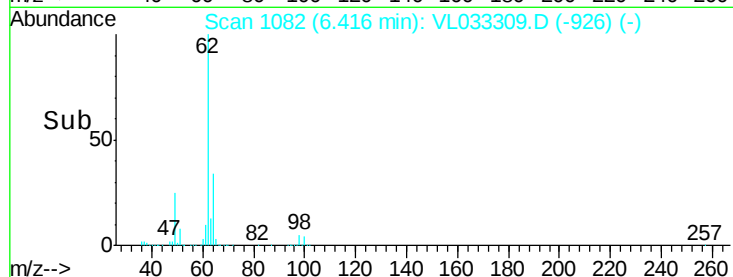
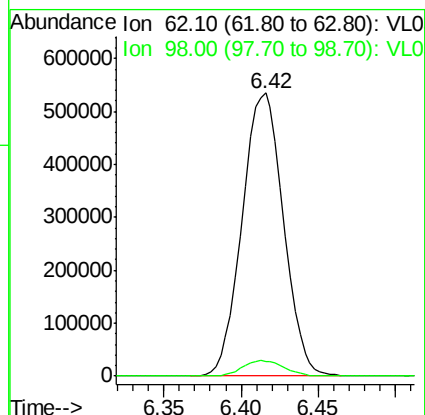
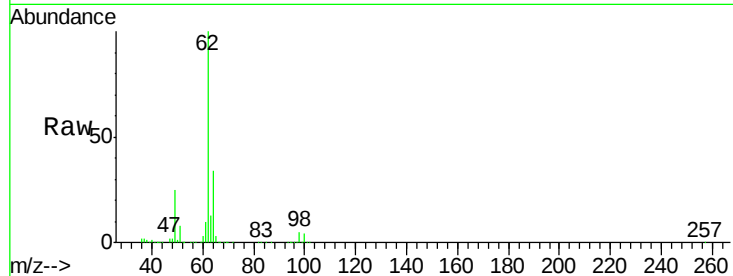
#37
 1,2-Dichloroethane
 Concen: 10.150 ppbv
 RT: 6.42 min Scan# 1082
 Delta R.T. 0.00 min
 Lab File: VL033309.D
 Acq: 14 Mar 2019 10:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0313ABS01

Tgt Ion	Ratio	Resp	Lower	Upper
62	100	995235		
98	5.6	4.4	6.6	

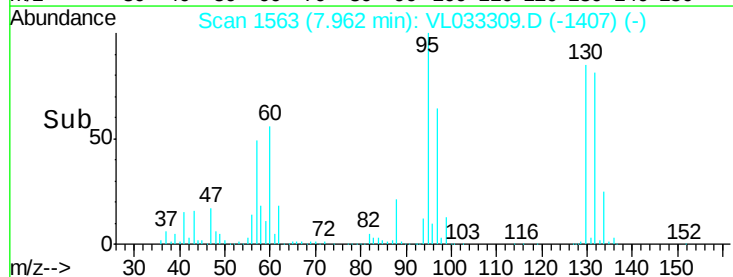
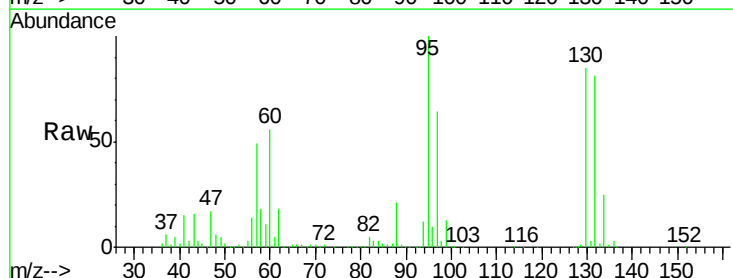
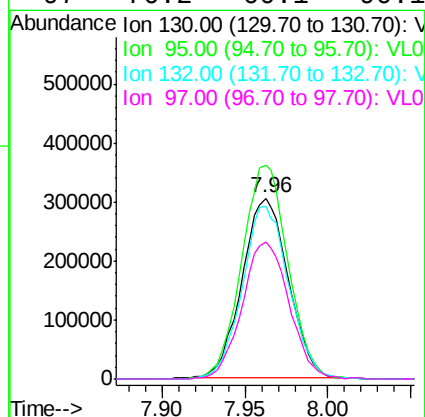
Manual Integrations
 APPROVED

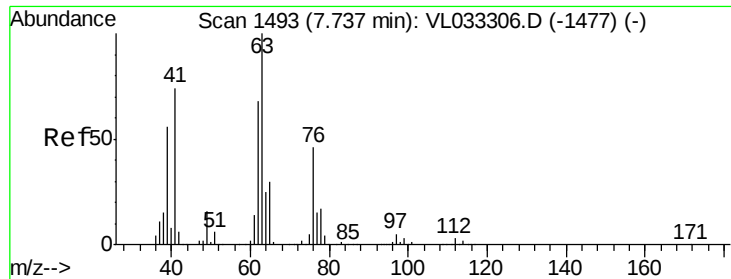
MMDadoda
 3/15/2019 10:41:58 PM



#38
 Trichloroethene
 Concen: 9.096 ppbv
 RT: 7.96 min Scan# 1563
 Delta R.T. 0.00 min
 Lab File: VL033309.D
 Acq: 14 Mar 2019 10:16

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	590278		
95	118.2	95.2	142.8	
132	95.8	72.5	108.7	
97	76.2	60.1	90.1	





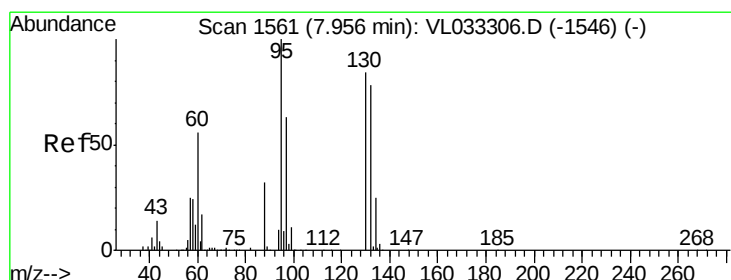
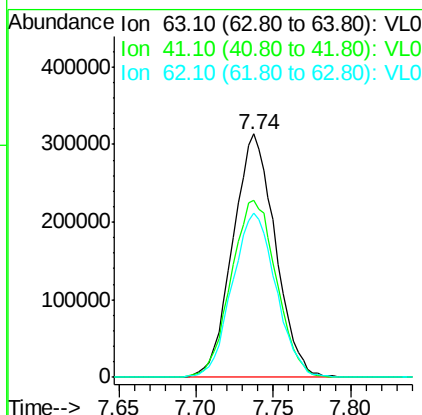
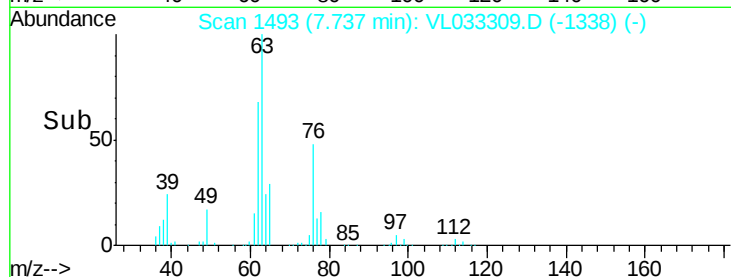
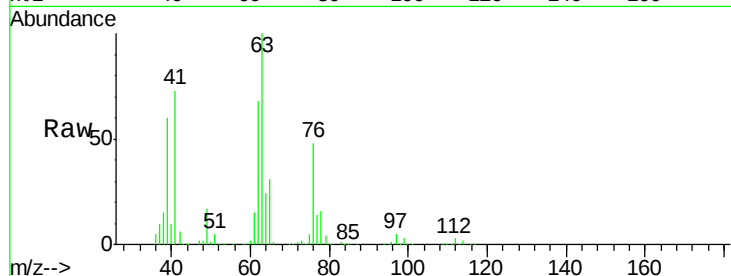
#39
 1,2-Dichloropropane
 Concen: 9.493 ppbv
 RT: 7.74 min Scan# 1493
 Delta R.T. -0.00 min
 Lab File: VL033309.D
 Acq: 14 Mar 2019 10:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0313ABS01

Tgt Ion	Ratio	Lower	Upper
63	100		
41	72.2	59.0	88.4
62	67.3	53.0	79.4

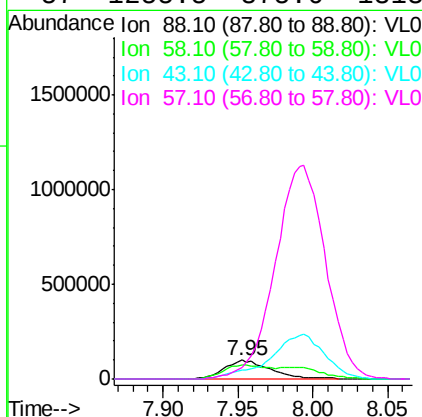
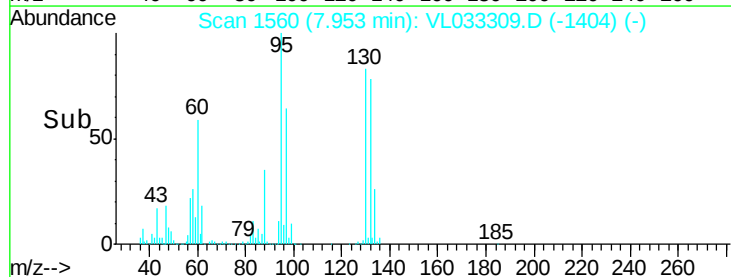
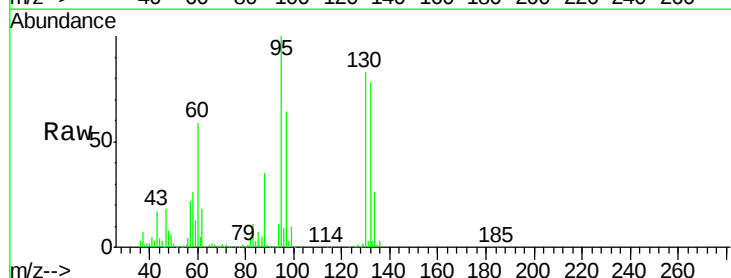
Manual Integrations
 APPROVED

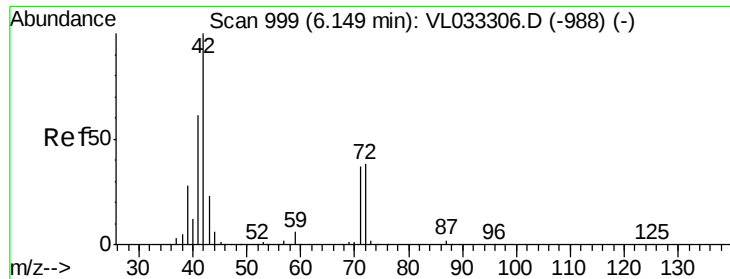
MMDadoda
 3/15/2019 10:41:58 PM



#40
 1,4-Dioxane
 Concen: 9.220 ppbv
 RT: 7.95 min Scan# 1560
 Delta R.T. 0.00 min
 Lab File: VL033309.D
 Acq: 14 Mar 2019 10:16

Tgt Ion	Ratio	Lower	Upper
88	100		
58	134.4	97.7	146.5
43	283.7	199.4	299.2
57	1255.5	875.6	1313.4





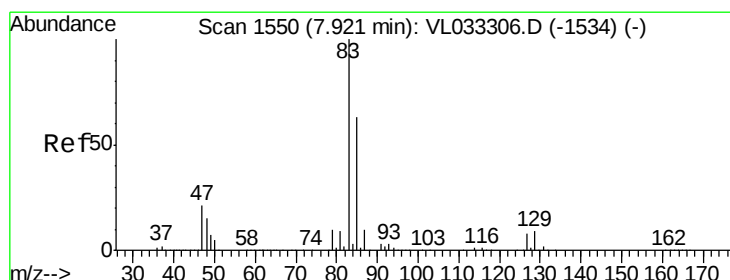
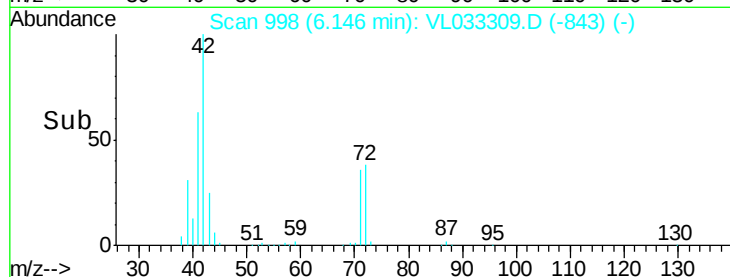
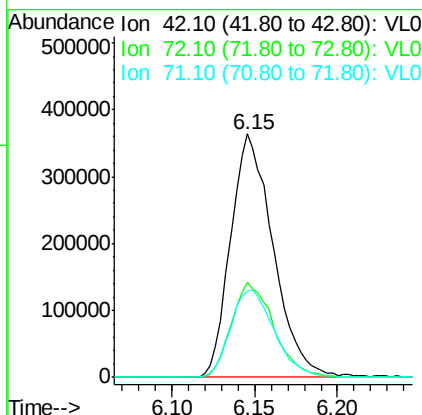
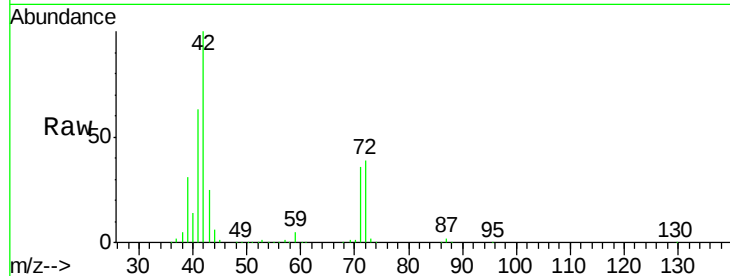
#41
Tetrahydrofuran
Concen: 10.124 ppbv
RT: 6.15 min Scan# 998
Delta R.T. -0.00 min
Lab File: VL033309.D
Acq: 14 Mar 2019 10:16

Instrument :
MSVOA_L
ClientSampleId :
VL0313ABS01

Tgt Ion	Ratio	Lower	Upper
42	100		
72	39.1	30.8	46.2
71	37.2	30.0	45.0

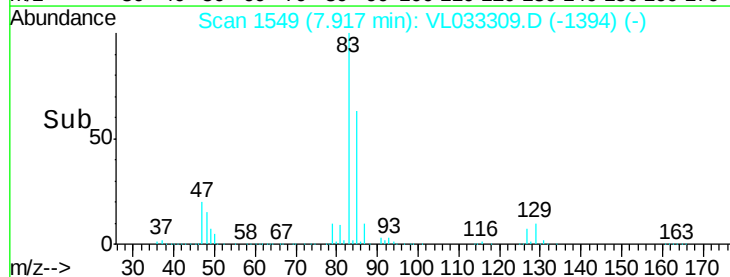
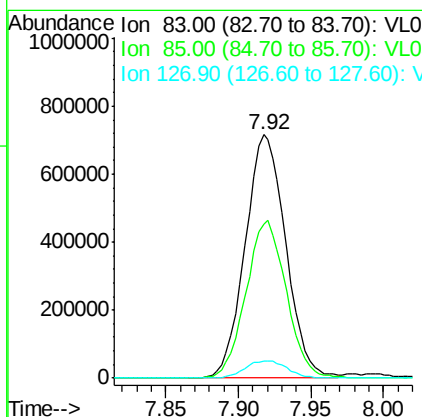
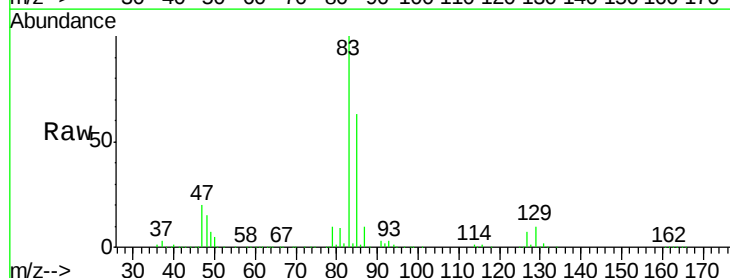
Manual Integrations
APPROVED

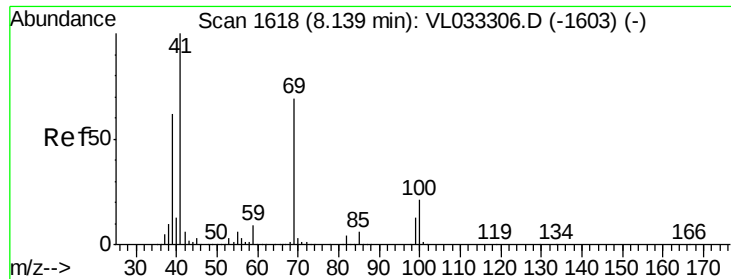
MMDadoda
3/15/2019 10:41:58 PM



#42
Bromodichloromethane
Concen: 10.157 ppbv
RT: 7.92 min Scan# 1549
Delta R.T. -0.00 min
Lab File: VL033309.D
Acq: 14 Mar 2019 10:16

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.0	51.0	76.4
127	7.2	6.6	10.0





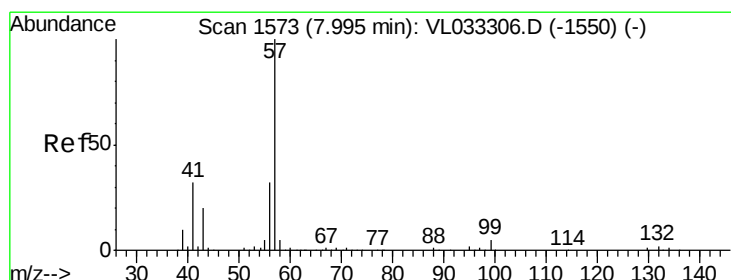
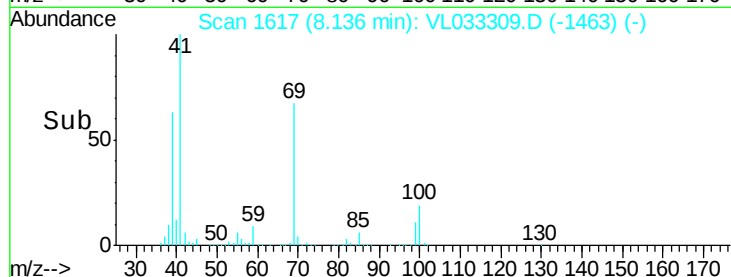
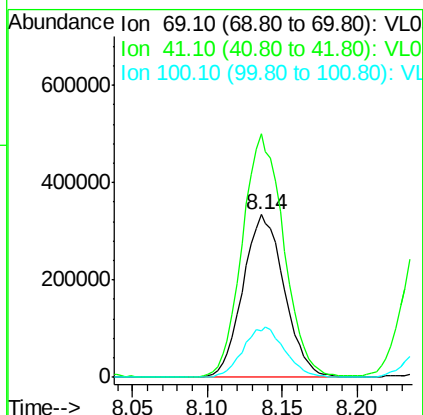
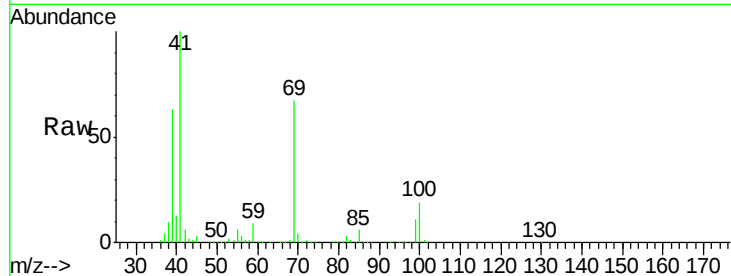
#43
Methyl Methacrylate
Concen: 9.857 ppbv
RT: 8.14 min Scan# 1617
Delta R.T. -0.00 min
Lab File: VL033309.D
Acq: 14 Mar 2019 10:16

Instrument :
MSVOA_L
ClientSampleId :
VL0313ABS01

Tgt Ion	Ratio	Lower	Upper
69	100		
41	149.6	117.0	175.4
100	30.8	24.3	36.5

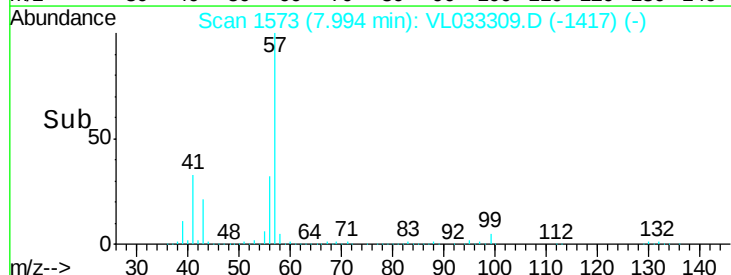
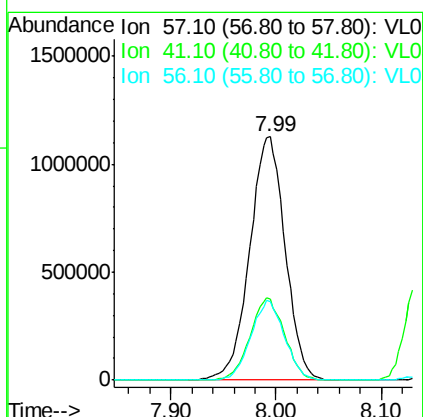
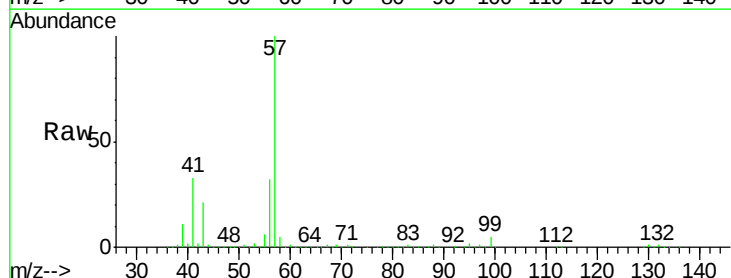
Manual Integrations
APPROVED

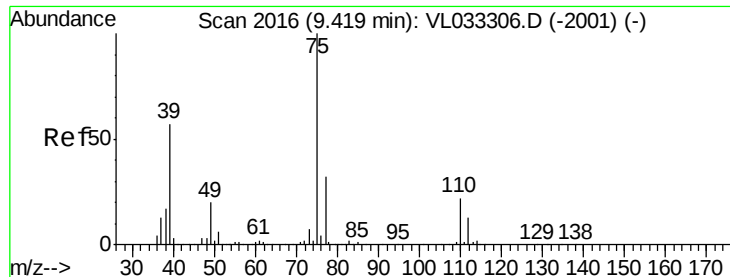
MMDadoda
3/15/2019 10:41:58 PM



#44
2,2,4-Trimethylpentane
Concen: 9.386 ppbv
RT: 7.99 min Scan# 1573
Delta R.T. 0.00 min
Lab File: VL033309.D
Acq: 14 Mar 2019 10:16

Tgt Ion	Ratio	Lower	Upper
57	100		
41	32.9	25.9	38.9
56	31.1	24.6	36.8





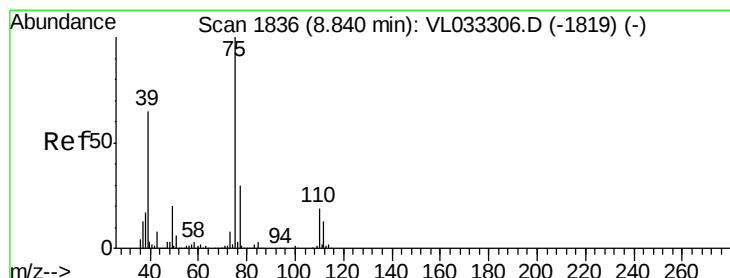
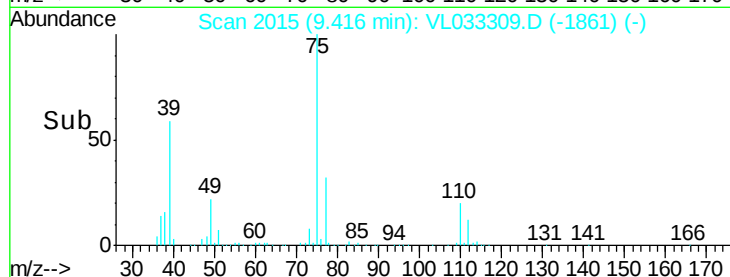
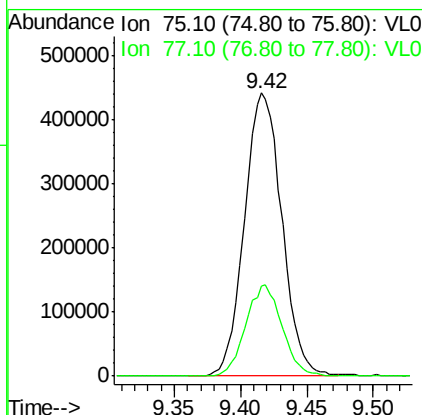
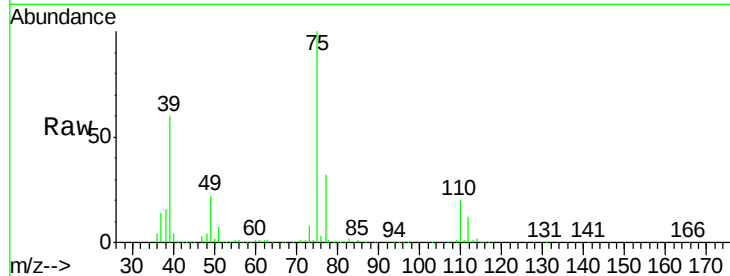
#45
t-1,3-Dichloropropene
Concen: 11.332 ppbv
RT: 9.42 min Scan# 2015
Delta R.T. -0.00 min
Lab File: VL033309.D
Acq: 14 Mar 2019 10:16

Instrument :
MSVOA_L
ClientSampleId :
VL0313ABS01

Tgt Ion: 75 Resp: 868402
Ion Ratio Lower Upper
75 100
77 31.7 25.3 37.9

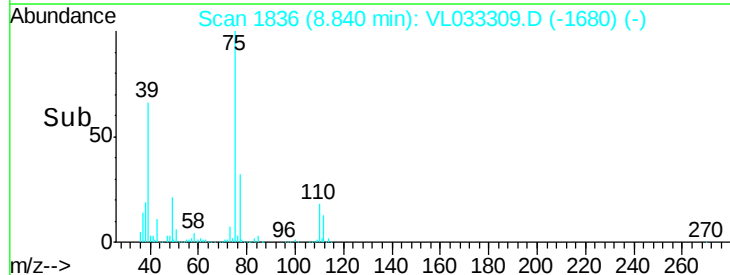
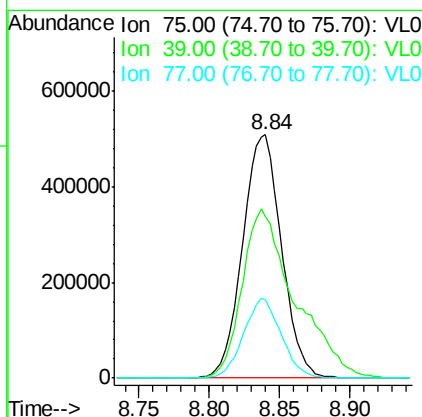
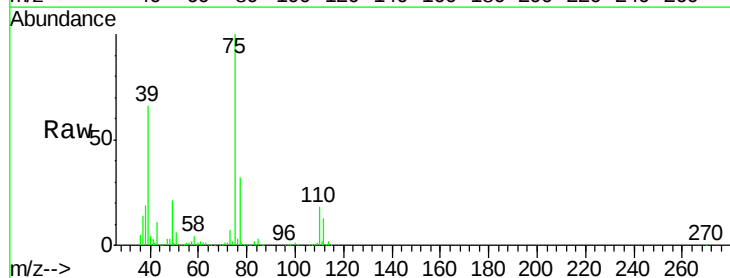
Manual Integrations
APPROVED

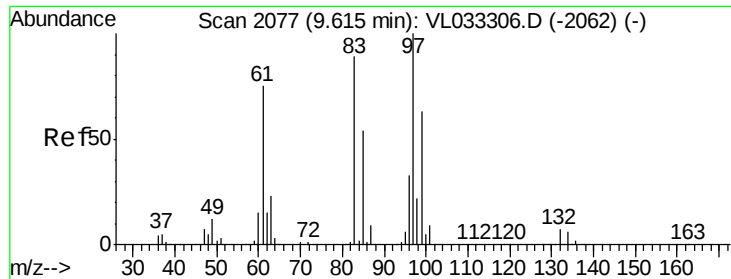
MMDadoda
3/15/2019 10:41:58 PM



#46
cis-1,3-Dichloropropene
Concen: 10.654 ppbv
RT: 8.84 min Scan# 1836
Delta R.T. 0.00 min
Lab File: VL033309.D
Acq: 14 Mar 2019 10:16

Tgt Ion: 75 Resp: 983673
Ion Ratio Lower Upper
75 100
39 66.4 53.4 80.2
77 32.2 23.7 35.5





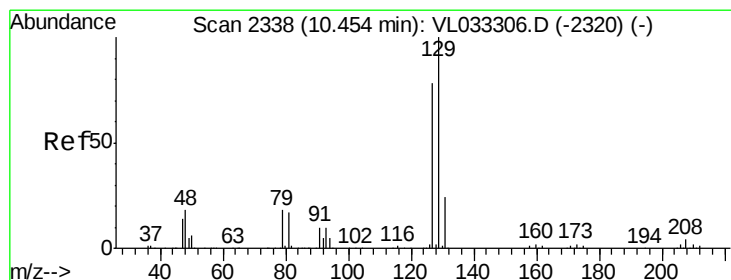
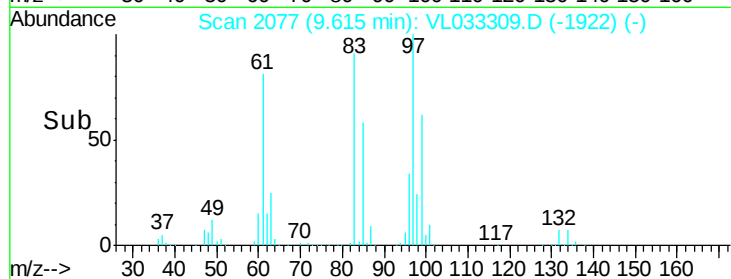
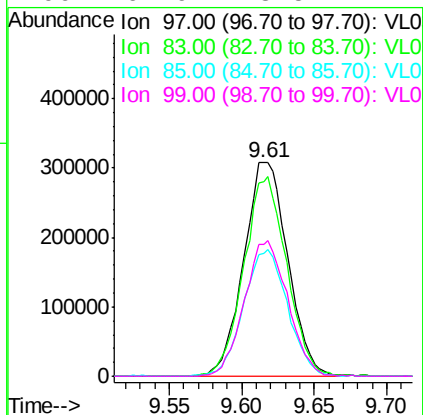
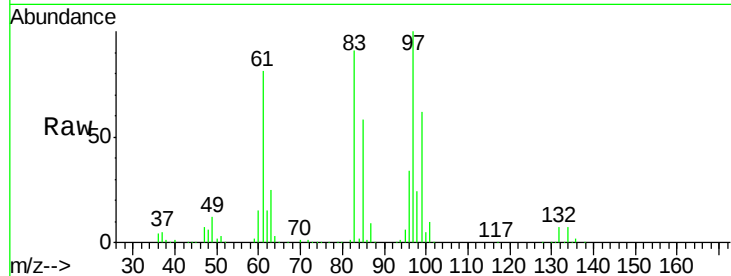
#47
 1,1,2-Trichloroethane
 Concen: 9.672 ppbv
 RT: 9.61 min Scan# 2077
 Delta R.T. -0.00 min
 Lab File: VL033309.D
 Acq: 14 Mar 2019 10:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0313ABS01

Tgt Ion	Ratio	Lower	Upper
97	100		
83	91.2	72.7	109.1
85	57.5	45.6	68.4
99	61.9	48.5	72.7

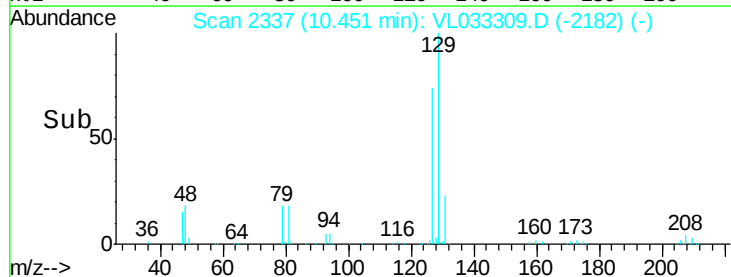
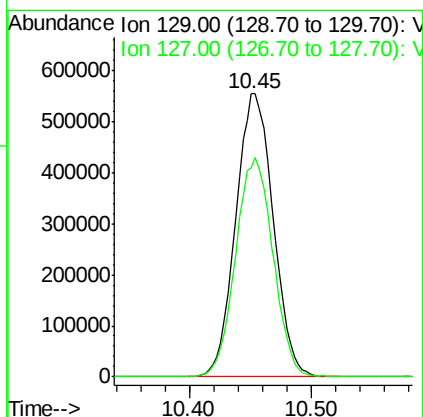
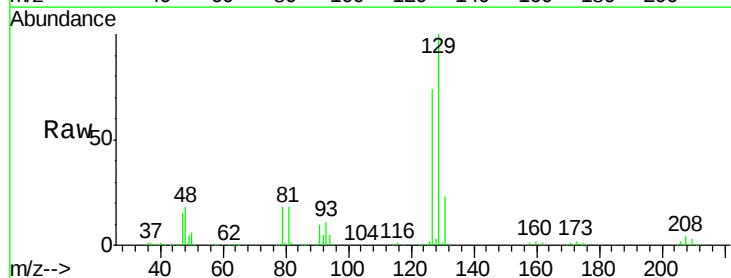
Manual Integrations
 APPROVED

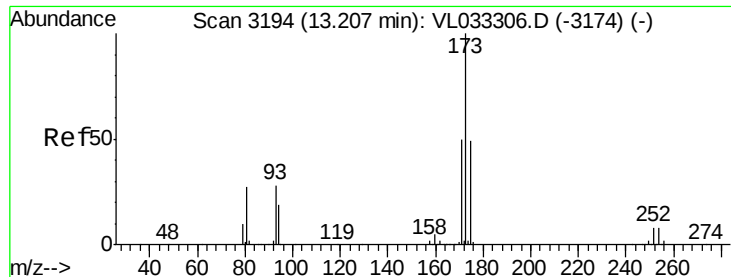
MMDadoda
 3/15/2019 10:41:58 PM



#48
 Dibromochloromethane
 Concen: 10.623 ppbv
 RT: 10.45 min Scan# 2337
 Delta R.T. -0.00 min
 Lab File: VL033309.D
 Acq: 14 Mar 2019 10:16

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.3	39.0	117.0





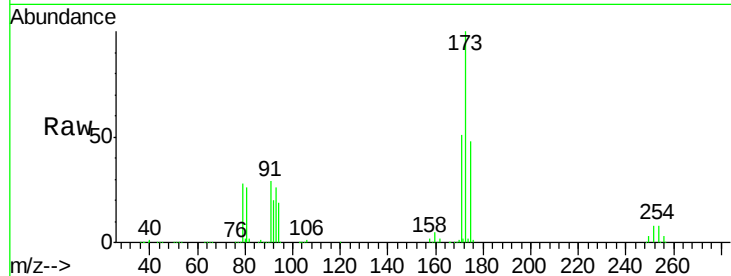
#49
Bromoform
Concen: 11.894 ppbv
RT: 13.21 min Scan# 3194
Delta R.T. 0.00 min
Lab File: VL033309.D
Acq: 14 Mar 2019 10:16

Instrument :
MSVOA_L
ClientSampleId :
VL0313ABS01

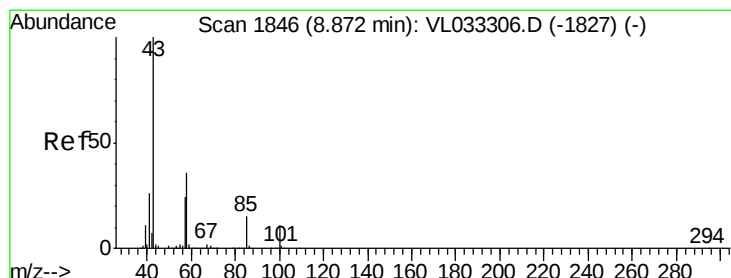
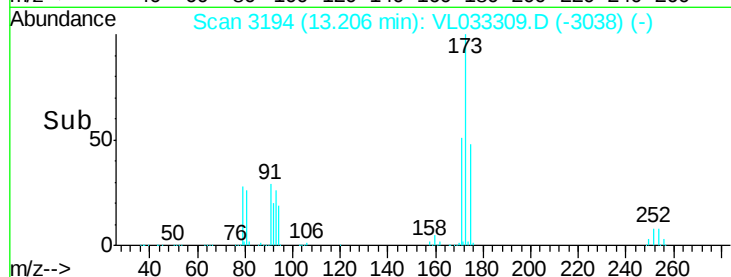
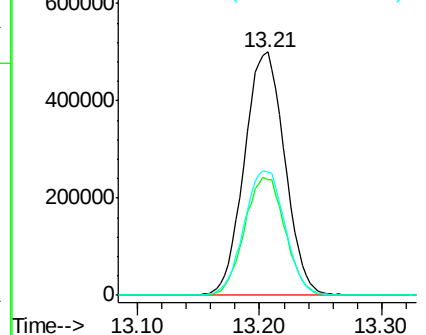
Tgt Ion:173 Resp: 1143722
Ion Ratio Lower Upper
173 100
175 48.7 38.6 58.0
171 51.9 42.0 63.0

Manual Integrations
APPROVED

MMDadoda
3/15/2019 10:41:58 PM

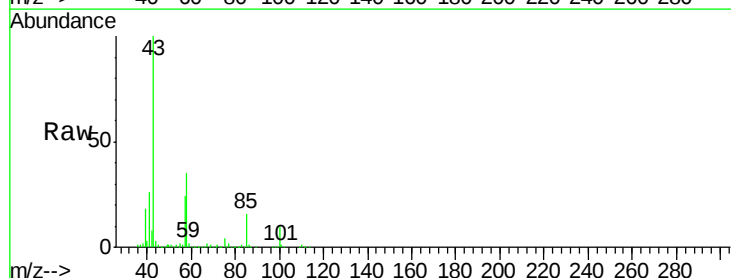


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

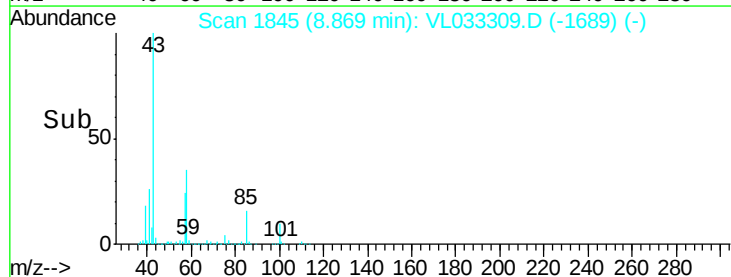
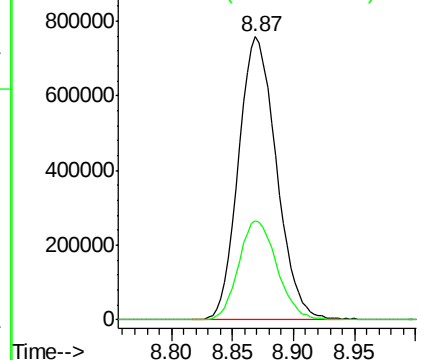


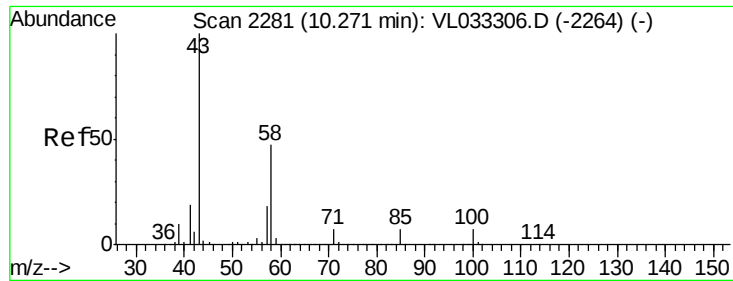
#50
4-Methyl-2-Pentanone
Concen: 9.752 ppbv
RT: 8.87 min Scan# 1845
Delta R.T. 0.00 min
Lab File: VL033309.D
Acq: 14 Mar 2019 10:16

Tgt Ion: 43 Resp: 1632590
Ion Ratio Lower Upper
43 100
58 35.5 28.2 42.2



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





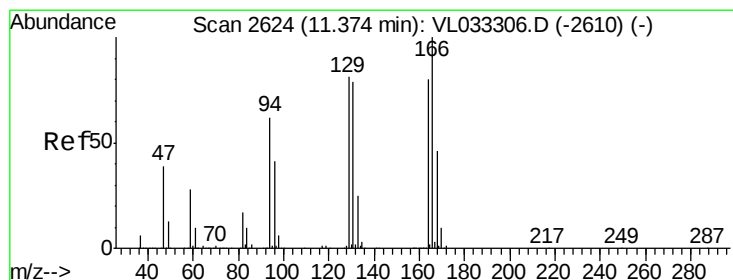
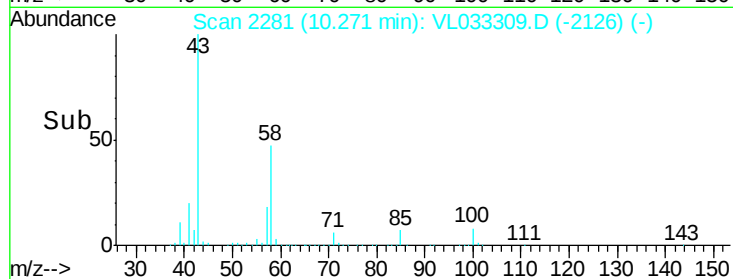
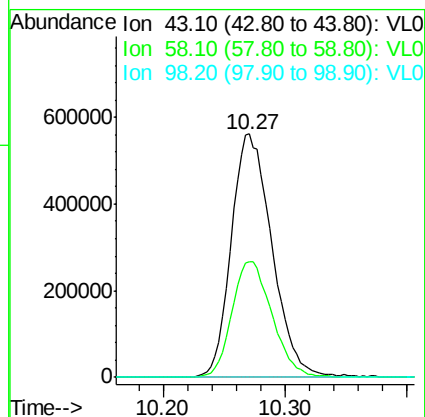
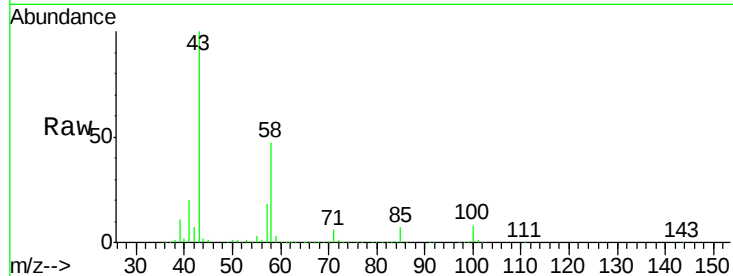
#51
2-Hexanone
Concen: 10.139 ppbv
RT: 10.27 min Scan# 2281
Delta R.T. -0.00 min
Lab File: VL033309.D
Acq: 14 Mar 2019 10:16

Instrument :
MSVOA_L
ClientSampleId :
VL0313ABS01

Tgt Ion: 43 Resp: 1296030
Ion Ratio Lower Upper
43 100
58 47.4 38.4 57.6
98 0.2 0.2 0.2

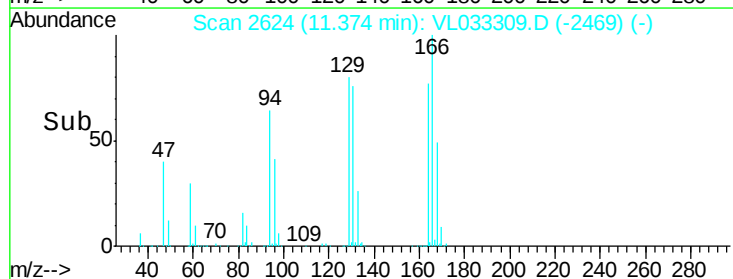
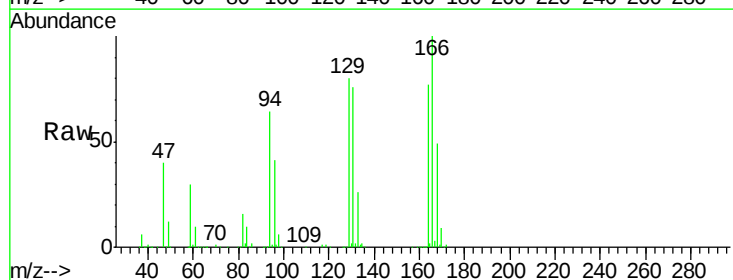
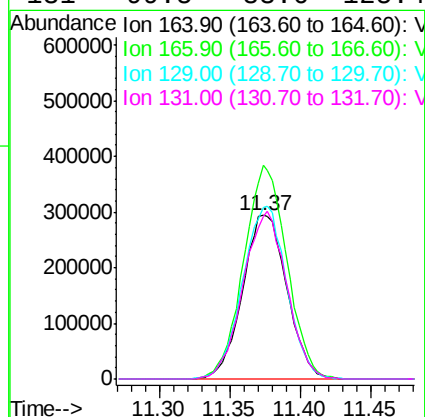
Manual Integrations
APPROVED

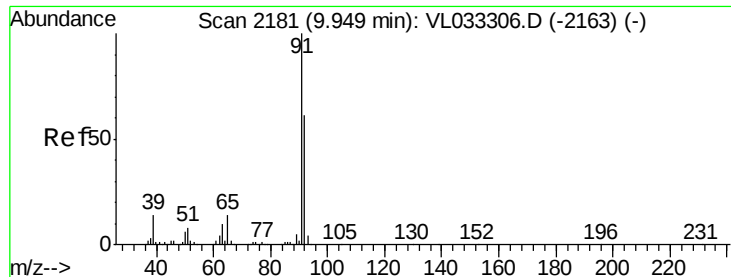
MMDadoda
3/15/2019 10:41:58 PM



#52
Tetrachloroethene
Concen: 9.581 ppbv
RT: 11.37 min Scan# 2624
Delta R.T. -0.00 min
Lab File: VL033309.D
Acq: 14 Mar 2019 10:16

Tgt Ion: 164 Resp: 645928
Ion Ratio Lower Upper
164 100
166 130.4 103.2 154.8
129 104.5 85.8 128.8
131 99.5 83.6 125.4





#53

Toluene

Concen: 9.910 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. 0.00 min

Lab File: VL033309.D

Acq: 14 Mar 2019 10:16

Instrument :

MSVOA_L

ClientSampleId :

VL0313ABS01

Tgt Ion: 91 Resp: 1862572

Ion Ratio Lower Upper

91 100

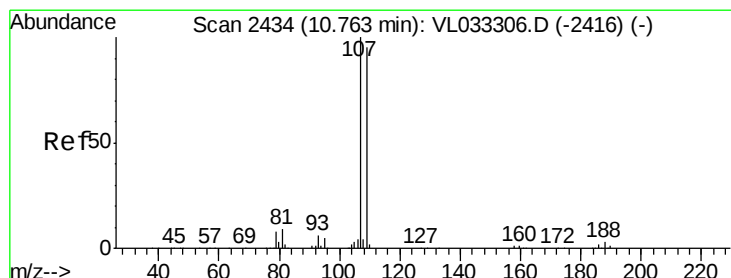
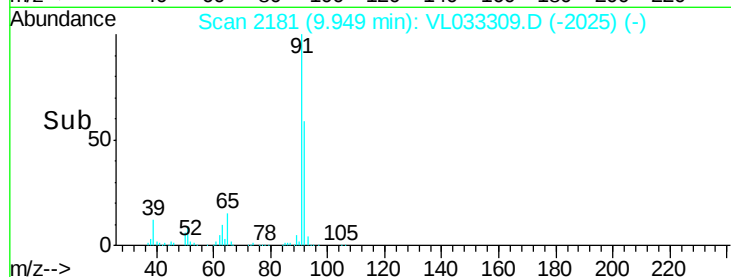
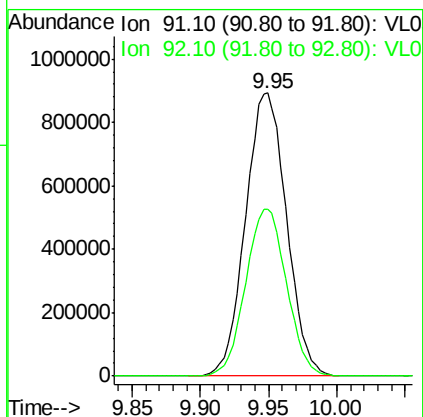
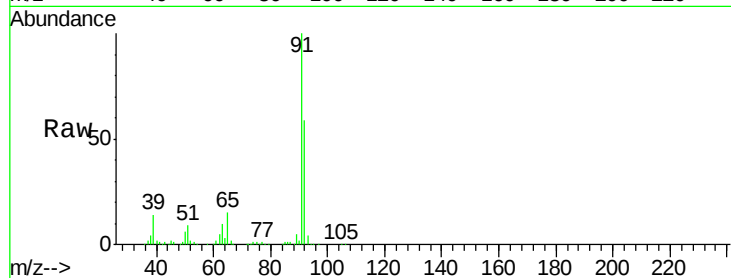
92 58.9 47.4 71.2

Manual Integrations

APPROVED

MMDadoda

3/15/2019 10:41:58 PM



#54

1,2-Dibromoethane

Concen: 9.720 ppbv

RT: 10.76 min Scan# 2434

Delta R.T. 0.00 min

Lab File: VL033309.D

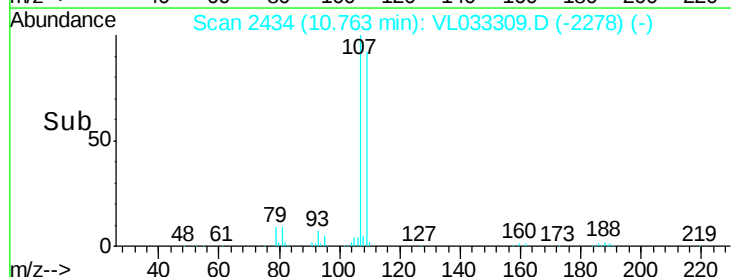
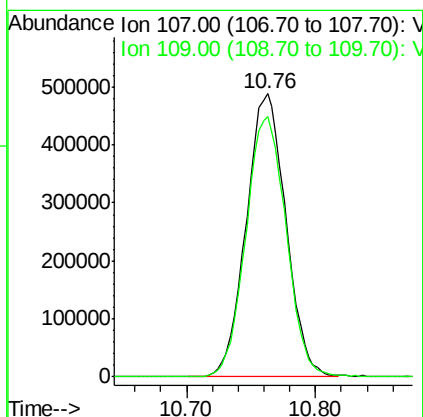
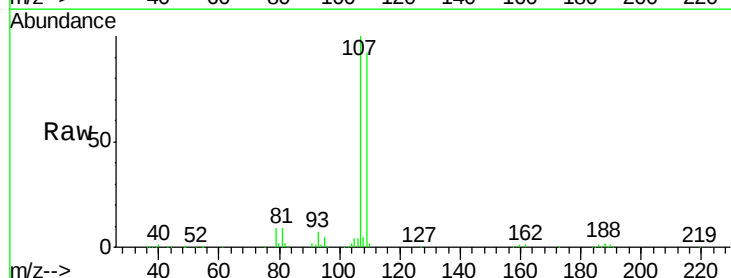
Acq: 14 Mar 2019 10:16

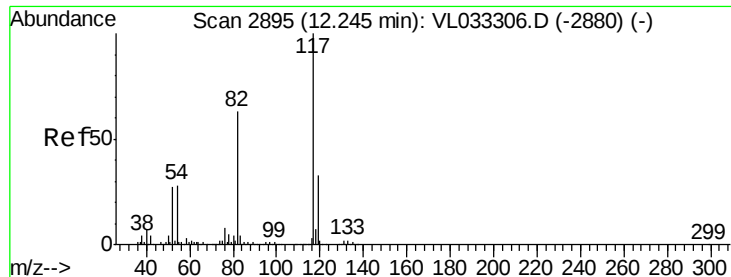
Tgt Ion: 107 Resp: 1046870

Ion Ratio Lower Upper

107 100

109 92.1 74.3 111.5





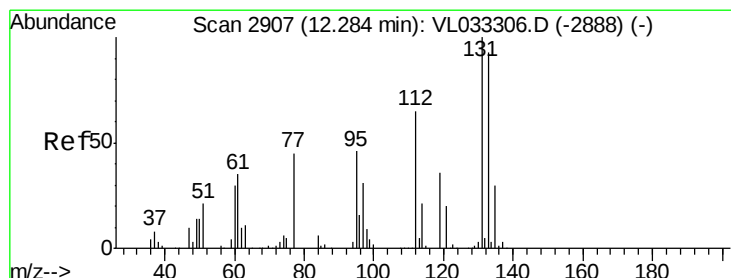
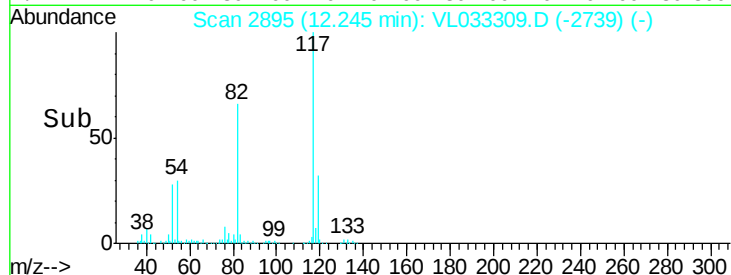
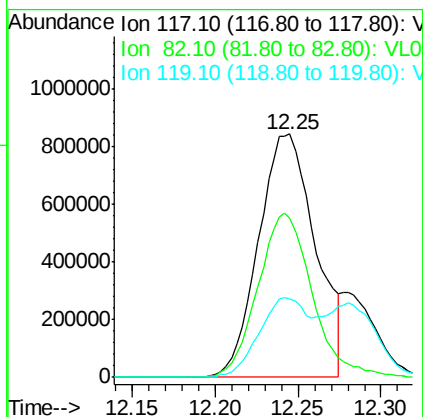
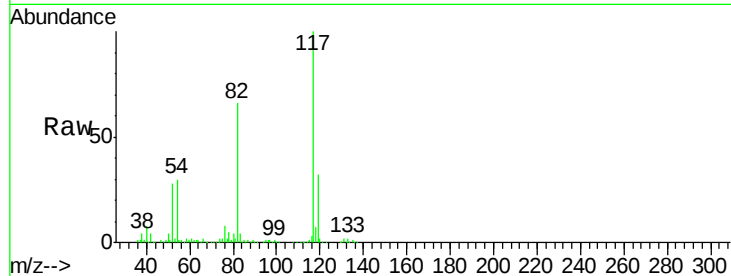
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2895
Delta R.T. 0.00 min
Lab File: VL033309.D
Acq: 14 Mar 2019 10:16

Instrument :
MSVOA_L
ClientSampleId :
VL0313ABS01

Tgt Ion:117 Resp: 2013911
Ion Ratio Lower Upper
117 100
82 64.8 51.3 76.9
119 27.6 27.0 40.4

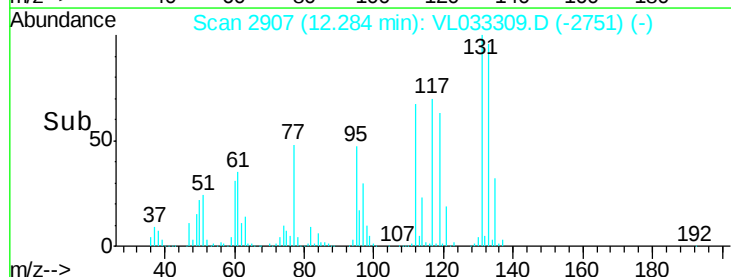
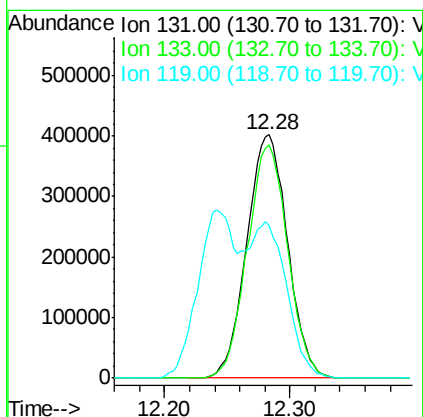
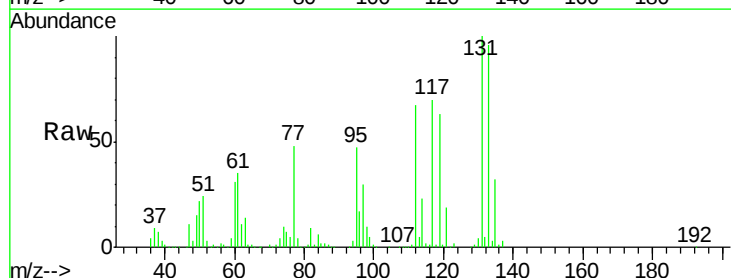
Manual Integrations
APPROVED

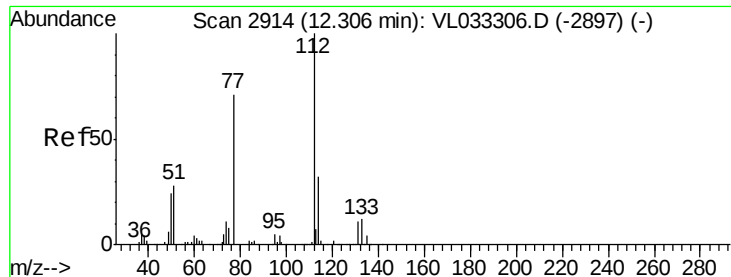
MMDadoda
3/15/2019 10:41:58 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 10.074 ppbv
RT: 12.28 min Scan# 2907
Delta R.T. 0.00 min
Lab File: VL033309.D
Acq: 14 Mar 2019 10:16

Tgt Ion:131 Resp: 910314
Ion Ratio Lower Upper
131 100
133 95.2 75.3 112.9
119 56.6 45.0 67.4





#57

Chlorobenzene

Concen: 9.300 ppbv

RT: 12.30 min Scan# 2913

Delta R.T. -0.00 min

Lab File: VL033309.D

Acq: 14 Mar 2019 10:16

Instrument :

MSVOA_L

ClientSampleId :

VL0313ABS01

Tgt Ion: 112 Resp: 1512051

Ion Ratio Lower Upper

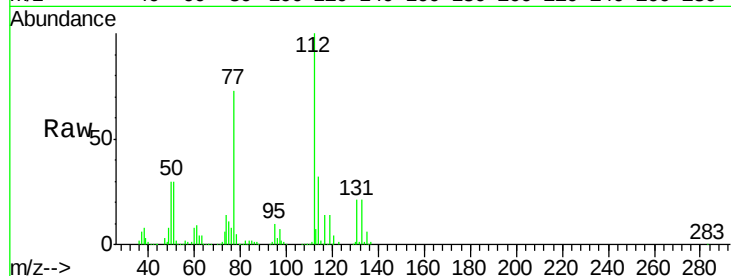
112 100

77 73.2 54.7 82.1

114 31.6 29.6 36.2

Manual Integrations
APPROVED

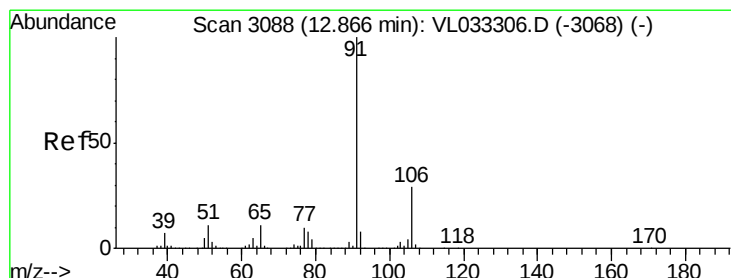
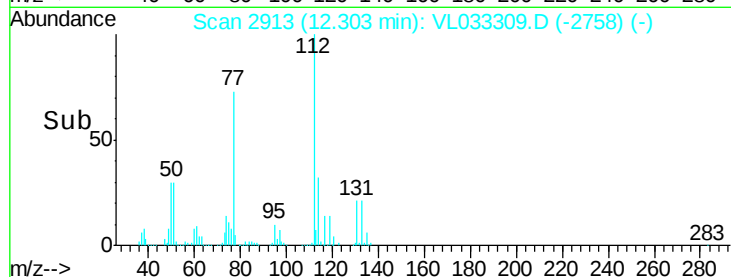
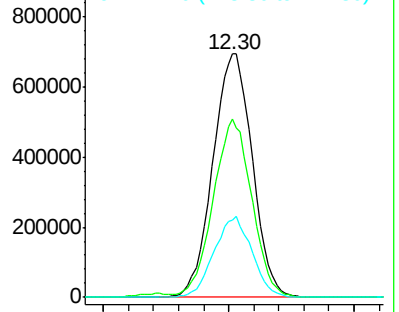
MMDadoda
3/15/2019 10:41:58 PM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 9.997 ppbv

RT: 12.87 min Scan# 3088

Delta R.T. -0.00 min

Lab File: VL033309.D

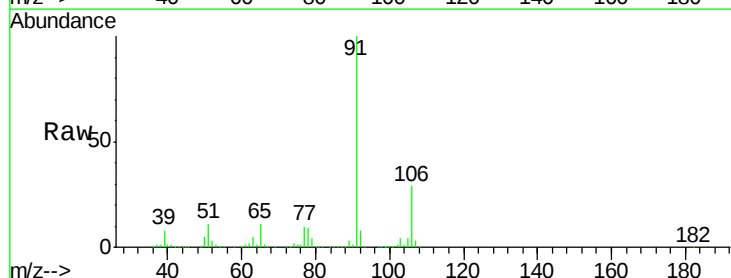
Acq: 14 Mar 2019 10:16

Tgt Ion: 91 Resp: 2890101

Ion Ratio Lower Upper

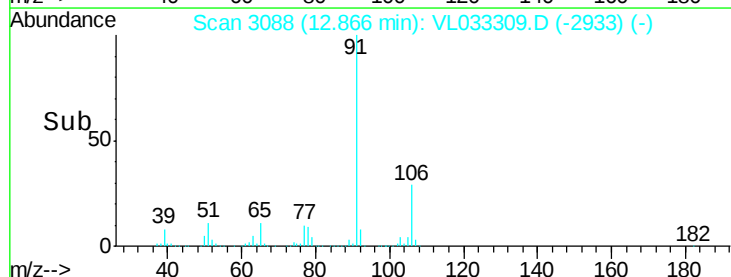
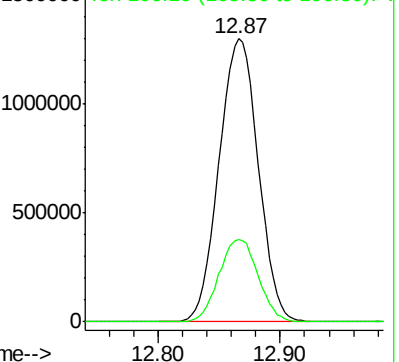
91 100

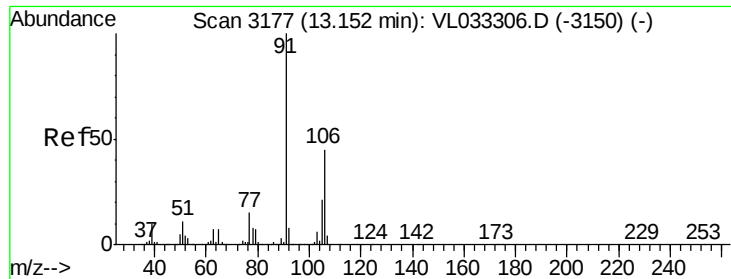
106 29.2 23.8 35.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 19.820 ppbv m

RT: 13.15 min Scan# 3177

Delta R.T. -0.00 min

Lab File: VL033309.D

Acq: 14 Mar 2019 10:16

Instrument :

MSVOA_L

ClientSampleId :

VL0313ABS01

Tgt Ion: 91 Resp: 4818137

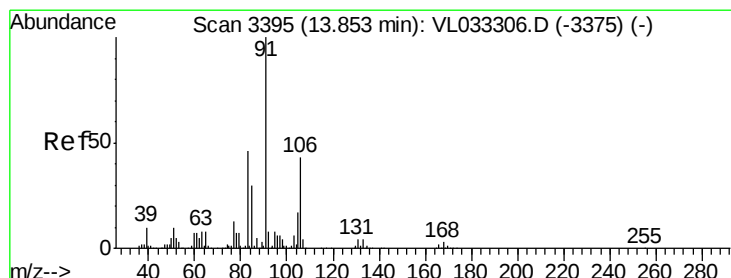
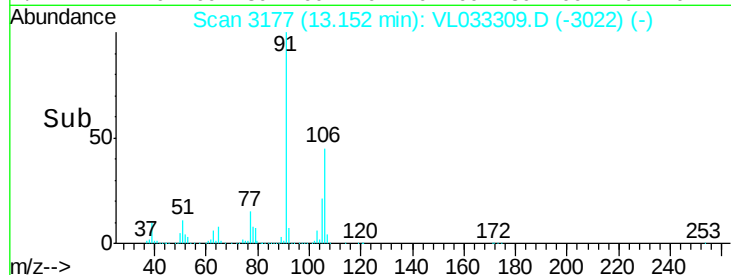
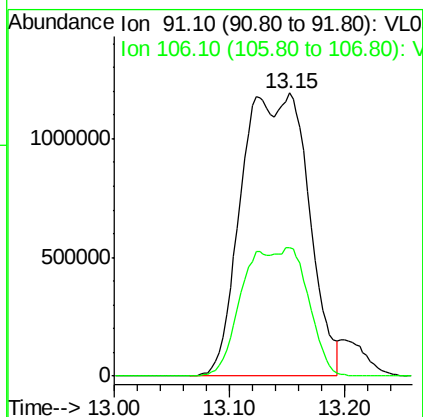
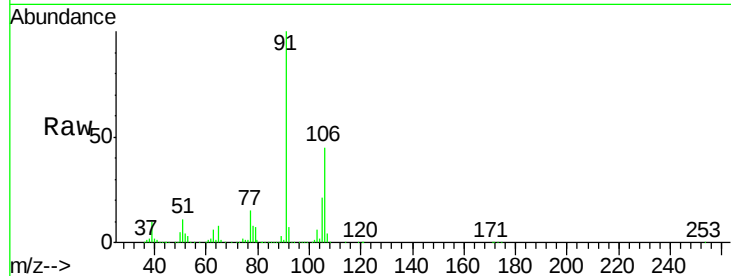
Ion Ratio Lower Upper

91 100

106 44.3 0.0 0.0#

Manual Integrations
APPROVED

MMDadoda
3/15/2019 10:41:58 PM



#60

o-Xylene

Concen: 10.056 ppbv

RT: 13.85 min Scan# 3395

Delta R.T. -0.00 min

Lab File: VL033309.D

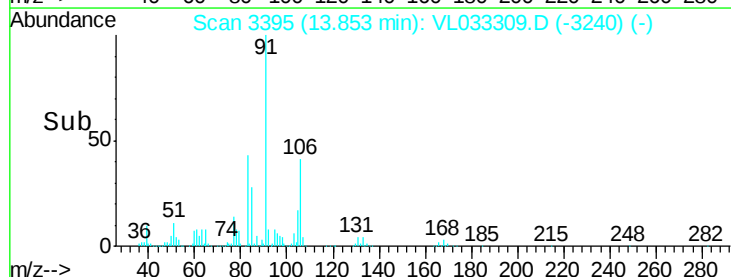
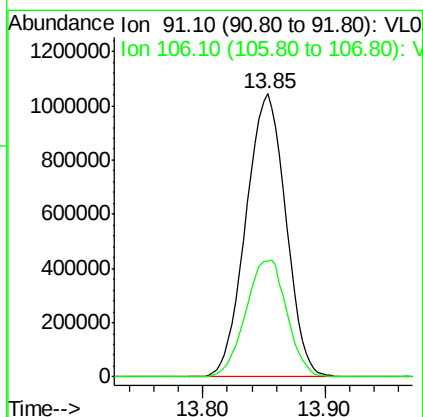
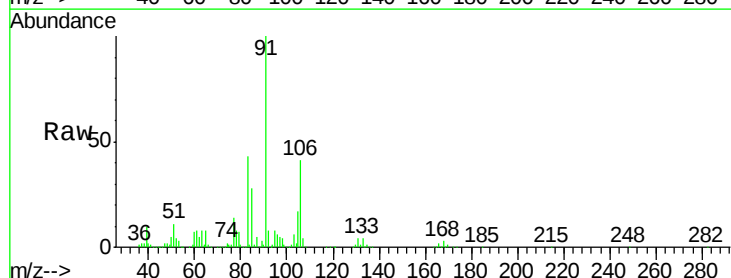
Acq: 14 Mar 2019 10:16

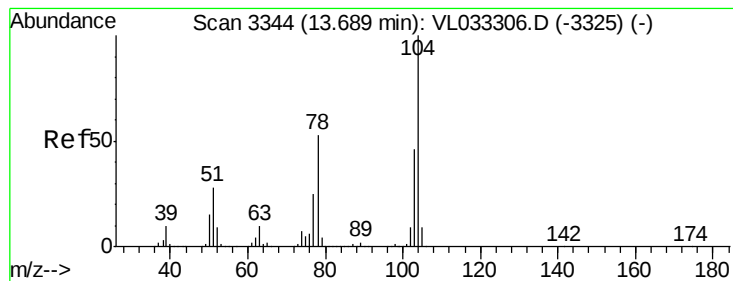
Tgt Ion: 91 Resp: 2357893

Ion Ratio Lower Upper

91 100

106 42.6 21.4 64.3





#61

Styrene

Concen: 10.633 ppbv

RT: 13.69 min Scan# 3343

Delta R.T. -0.00 min

Lab File: VL033309.D

Acq: 14 Mar 2019 10:16

Instrument :

MSVOA_L

ClientSampled :

VL0313ABS01

Tgt Ion:104 Resp: 1749609

Ion Ratio Lower Upper

104 100

78 54.1 43.3 64.9

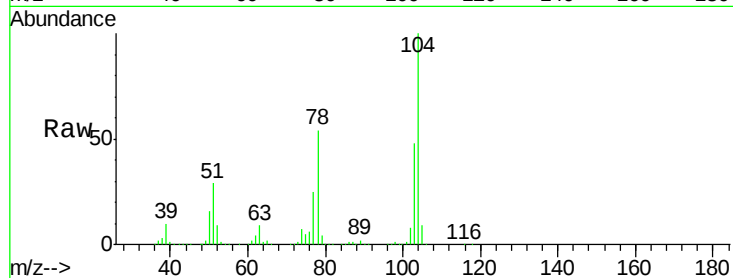
103 47.7 38.2 57.2

Manual Integrations

APPROVED

MMDadoda

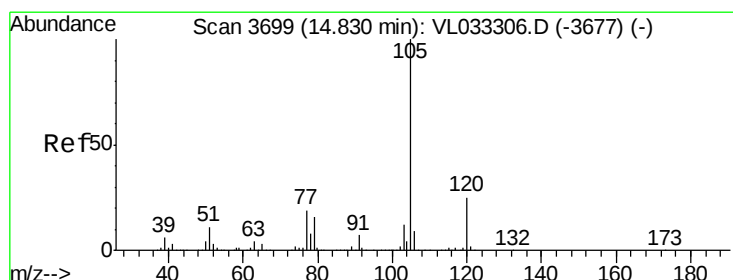
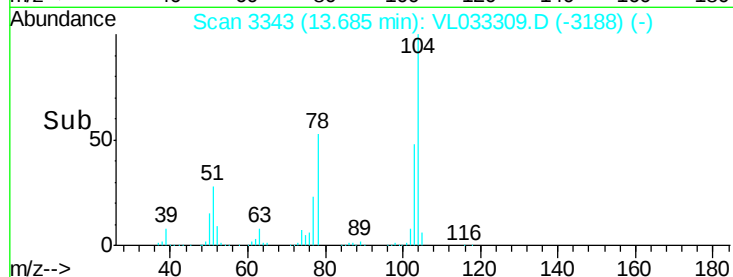
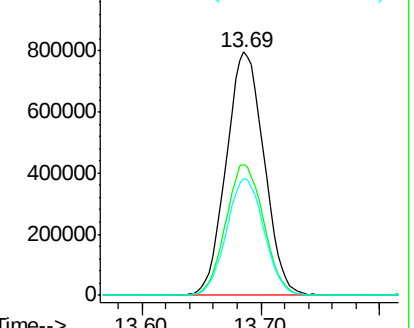
3/15/2019 10:41:58 PM



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: 10.001 ppbv

RT: 14.83 min Scan# 3699

Delta R.T. 0.00 min

Lab File: VL033309.D

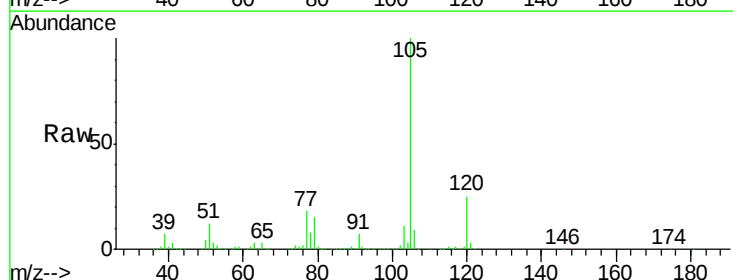
Acq: 14 Mar 2019 10:16

Tgt Ion:105 Resp: 3299172

Ion Ratio Lower Upper

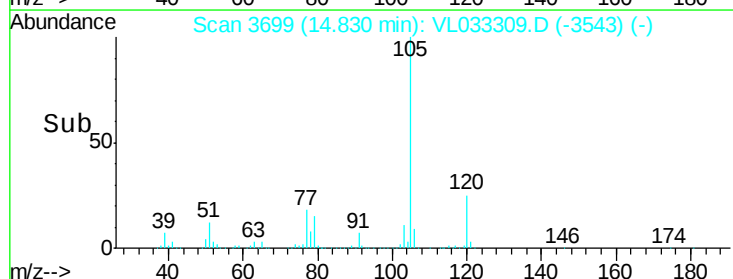
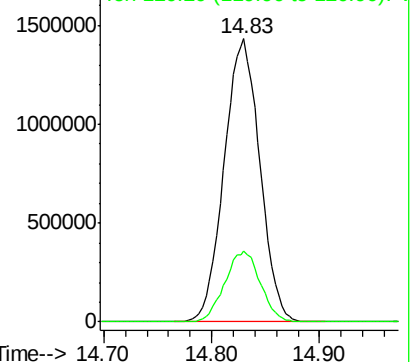
105 100

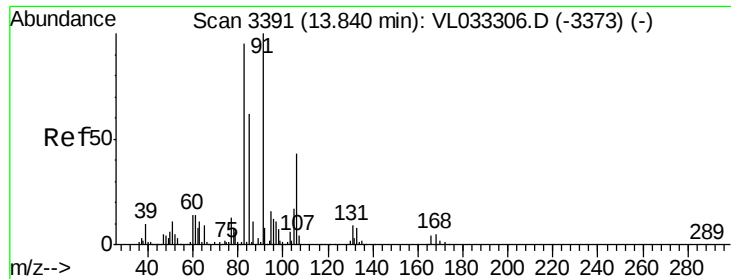
120 25.0 19.9 29.9



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 9.590 ppbv

RT: 13.84 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VL033309.D

Acq: 14 Mar 2019 10:16

Instrument :

MSVOA_L

ClientSampleId :

VL0313ABS01

Tgt Ion: 83 Resp: 1620639

Ion Ratio Lower Upper

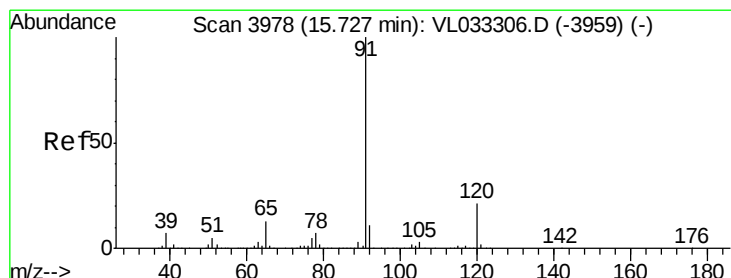
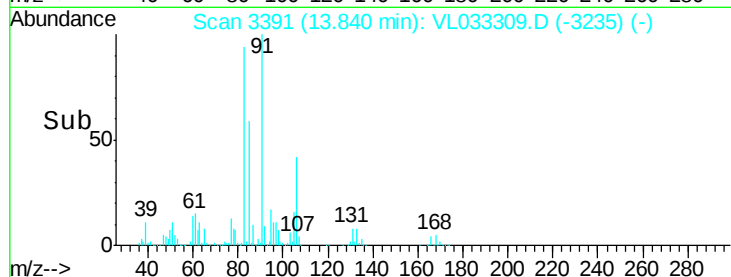
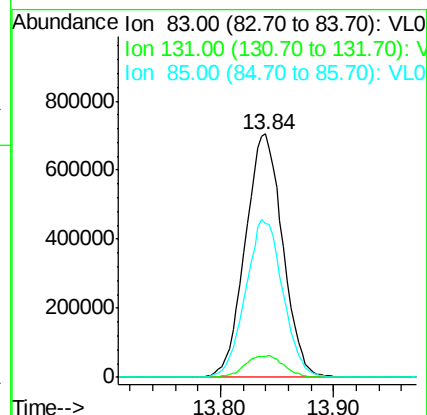
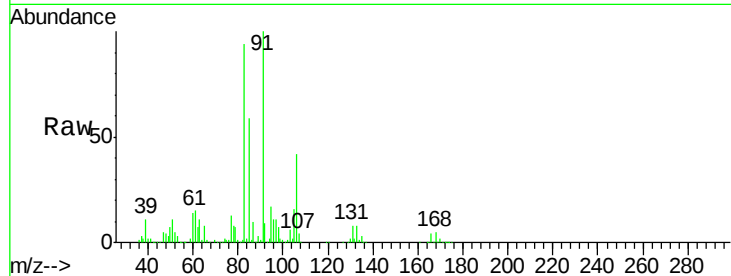
83 100

131 9.2 4.6 13.8

85 64.8 32.5 97.4

Manual Integrations
APPROVED

MMDadoda
3/15/2019 10:41:58 PM



#64

n-propylbenzene

Concen: 10.165 ppbv

RT: 15.72 min Scan# 3977

Delta R.T. -0.00 min

Lab File: VL033309.D

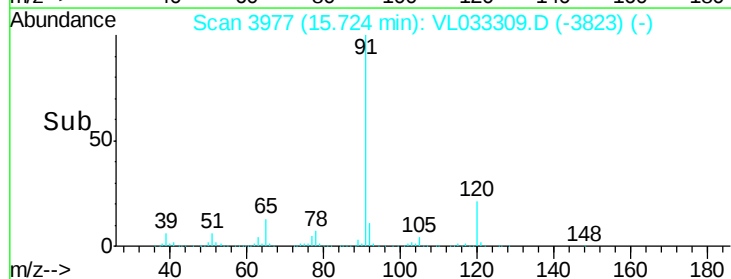
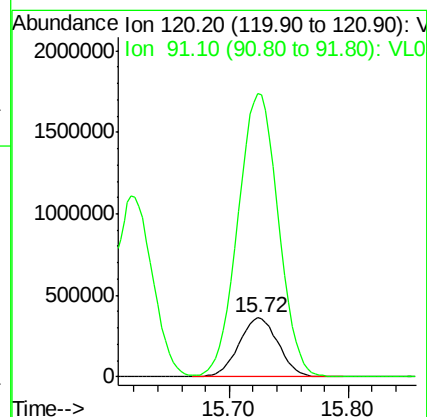
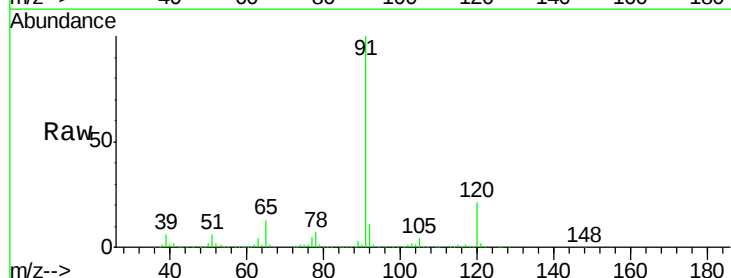
Acq: 14 Mar 2019 10:16

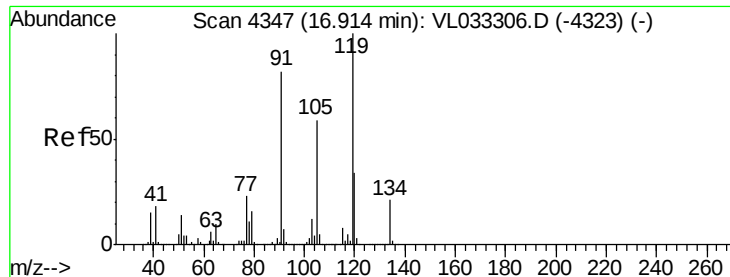
Tgt Ion: 120 Resp: 831475

Ion Ratio Lower Upper

120 100

91 491.8 393.7 590.5





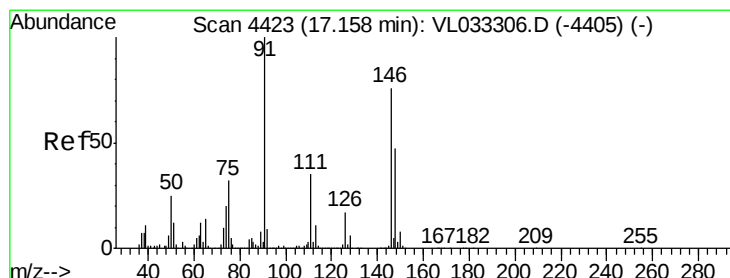
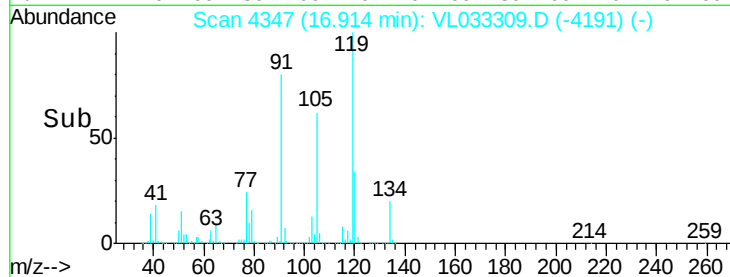
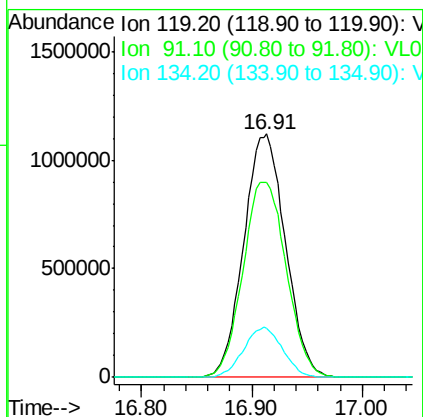
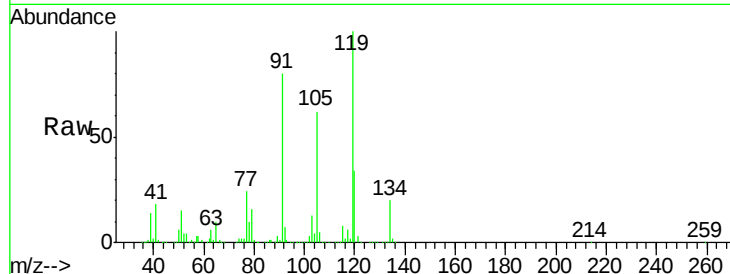
#65
 tert-Butylbenzene
 Concen: 10.503 ppbv
 RT: 16.91 min Scan# 4347
 Delta R.T. 0.00 min
 Lab File: VL033309.D
 Acq: 14 Mar 2019 10:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0313ABS01

Tgt Ion: 119 Resp: 2928039
 Ion Ratio Lower Upper
 119 100
 91 83.6 66.4 99.6
 134 19.4 15.4 23.2

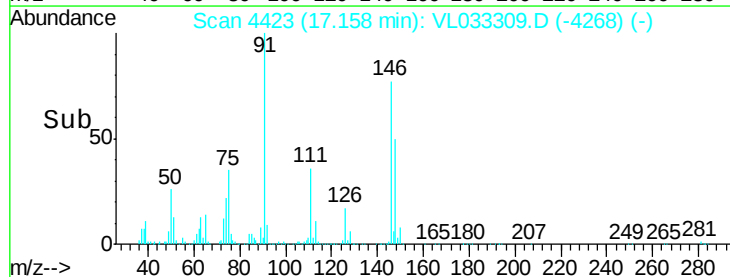
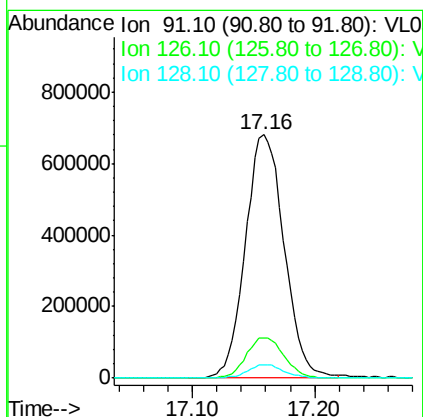
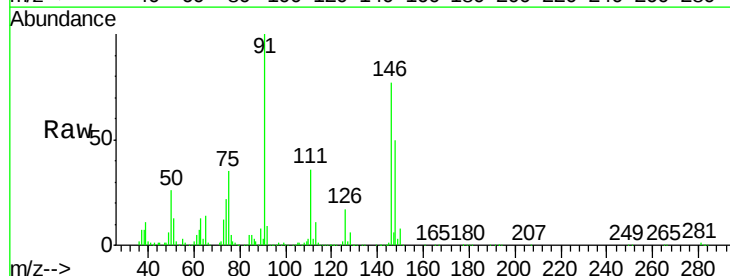
Manual Integrations
 APPROVED

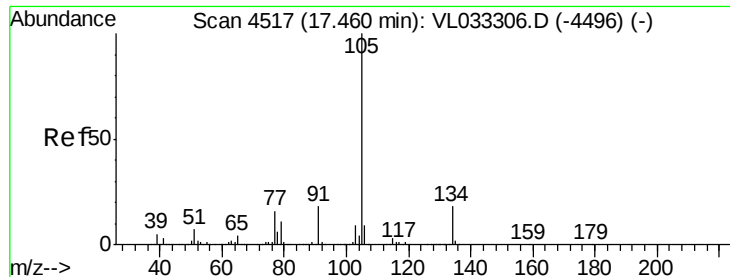
MMDadoda
 3/15/2019 10:41:58 PM



#66
 Benzyl Chloride
 Concen: 13.423 ppbv
 RT: 17.16 min Scan# 4423
 Delta R.T. -0.00 min
 Lab File: VL033309.D
 Acq: 14 Mar 2019 10:16

Tgt Ion: 91 Resp: 1488944
 Ion Ratio Lower Upper
 91 100
 126 16.4 12.9 19.3
 128 5.2 4.2 6.2





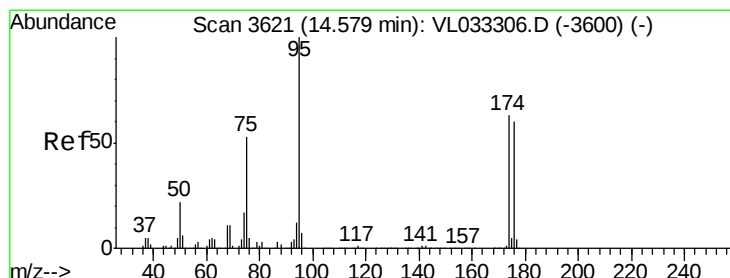
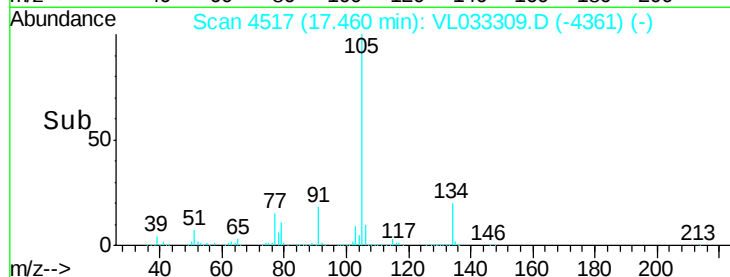
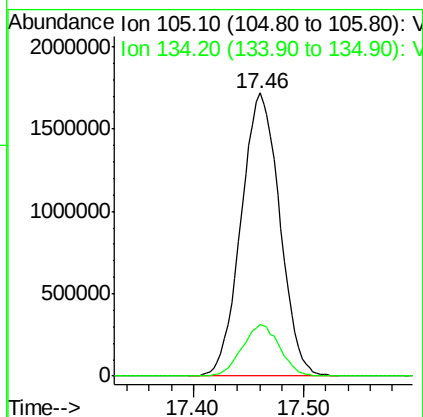
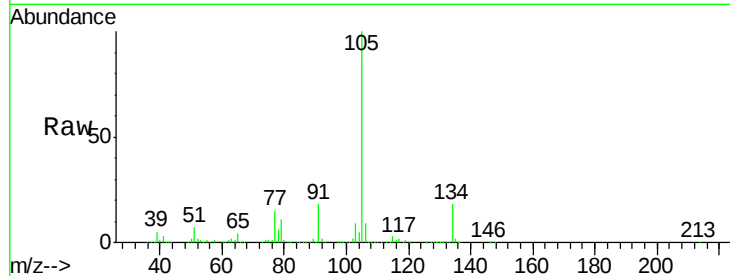
#67
 sec-Butylbenzene
 Concen: 10.400 ppbv
 RT: 17.46 min Scan# 4517
 Delta R.T. 0.00 min
 Lab File: VL033309.D
 Acq: 14 Mar 2019 10:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0313ABS01

Tgt Ion: 105 Resp: 4168813
 Ion Ratio Lower Upper
 105 100
 134 17.8 14.2 21.2

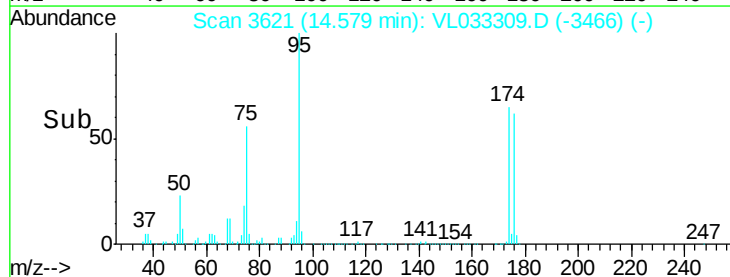
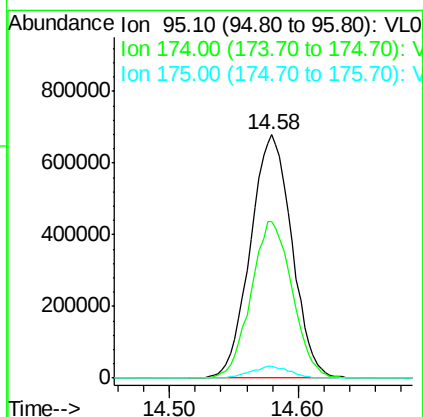
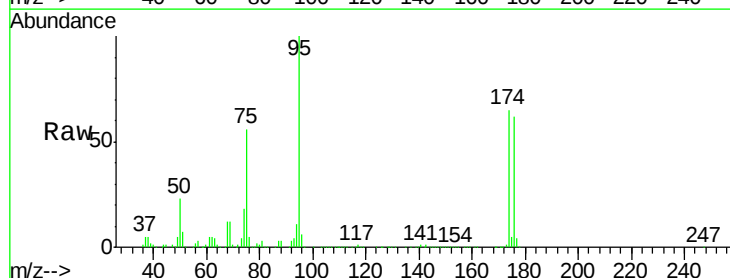
Manual Integrations
 APPROVED

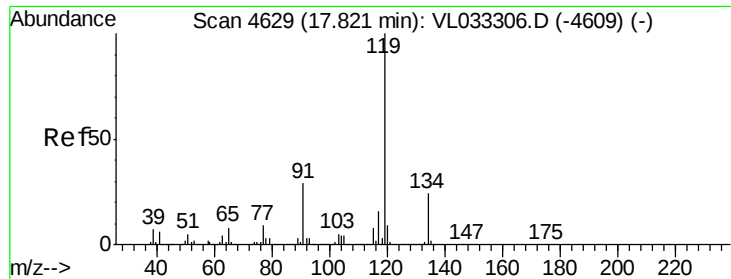
MMDadoda
 3/15/2019 10:41:58 PM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.871 ppbv
 RT: 14.58 min Scan# 3621
 Delta R.T. -0.00 min
 Lab File: VL033309.D
 Acq: 14 Mar 2019 10:16

Tgt Ion: 95 Resp: 1518117
 Ion Ratio Lower Upper
 95 100
 174 64.4 51.9 77.9
 175 4.6 3.9 5.9





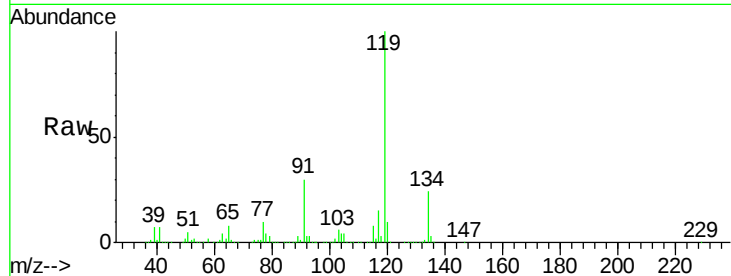
#69
p-Isopropyltoluene
Concen: 10.700 ppbv
RT: 17.82 min Scan# 4628
Delta R.T. -0.00 min
Lab File: VL033309.D
Acq: 14 Mar 2019 10:16

Instrument :
MSVOA_L
ClientSampleId :
VL0313ABS01

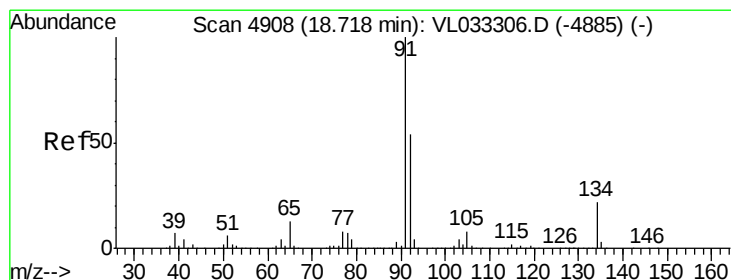
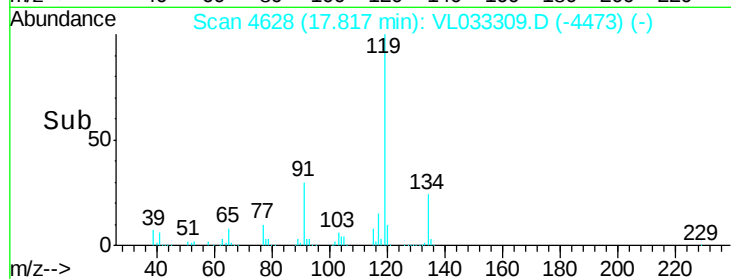
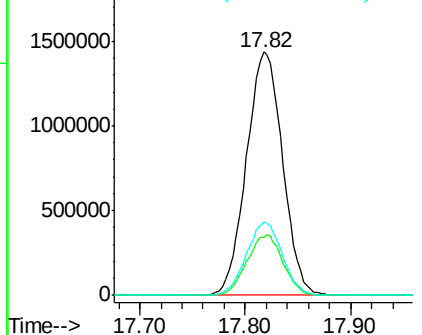
Tgt Ion	Ratio	Lower	Upper
119	100		
134	24.9	19.8	29.6
91	29.9	23.8	35.8

Manual Integrations
APPROVED

MMDadoda
3/15/2019 10:41:58 PM

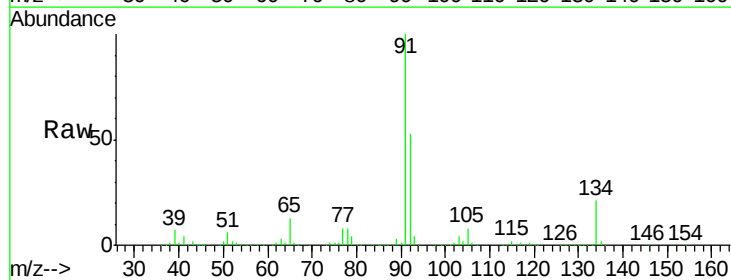


Abundance Ion 119.10 (118.80 to 119.80): V
Ion 134.20 (133.90 to 134.90): V
Ion 91.10 (90.80 to 91.80): V

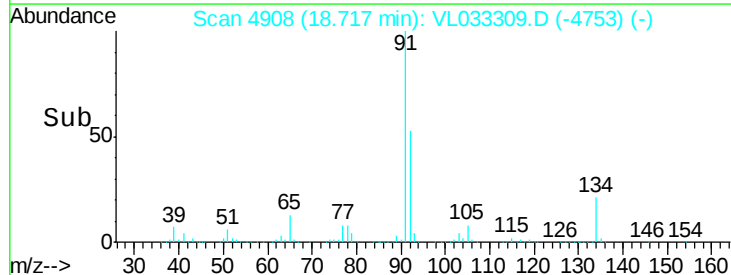
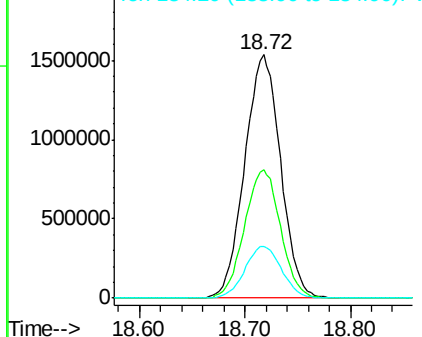


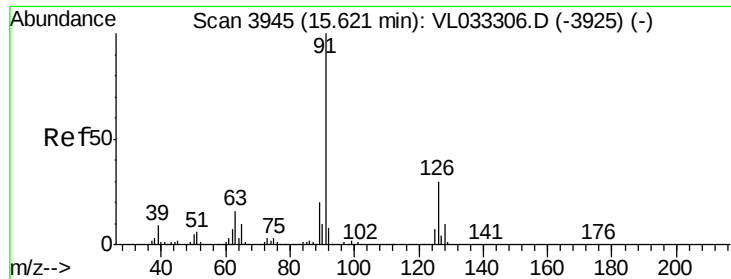
#70
n-Butylbenzene
Concen: 10.864 ppbv
RT: 18.72 min Scan# 4908
Delta R.T. -0.00 min
Lab File: VL033309.D
Acq: 14 Mar 2019 10:16

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.0	42.6	63.8
134	21.6	17.4	26.0



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





#71

2-Chlorotoluene

Concen: 10.333 ppbv

RT: 15.62 min Scan# 3944

Delta R.T. -0.00 min

Lab File: VL033309.D

Acq: 14 Mar 2019 10:16

Instrument :

MSVOA_L

ClientSampleId :

VL0313ABS01

Tgt Ion: 91 Resp: 2552873

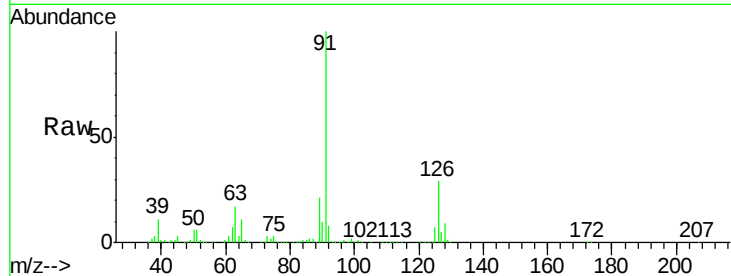
Ion Ratio Lower Upper

91 100

126 28.8 11.8 47.0

Manual Integrations
APPROVED

MMDadoda
3/15/2019 10:41:58 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

2000000

1500000

1000000

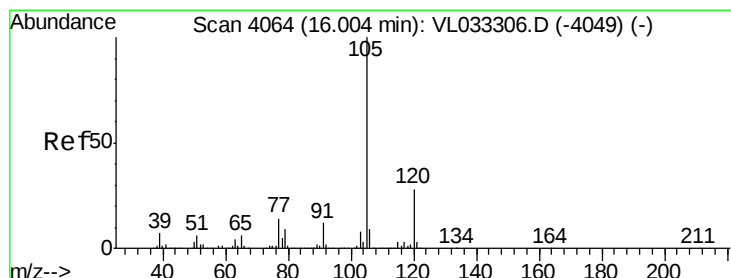
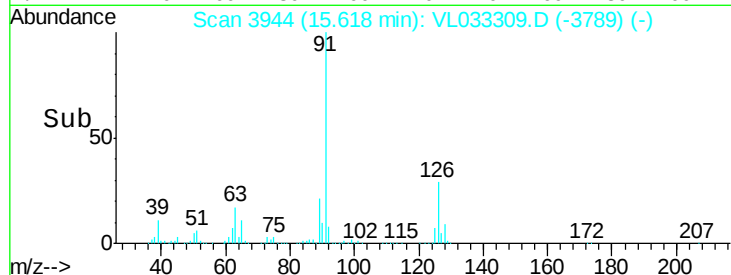
500000

0

15.62

15.70

Time-->



#72

4-Ethyltoluene

Concen: 10.812 ppbv

RT: 16.00 min Scan# 4064

Delta R.T. -0.00 min

Lab File: VL033309.D

Acq: 14 Mar 2019 10:16

Tgt Ion: 105 Resp: 2715698

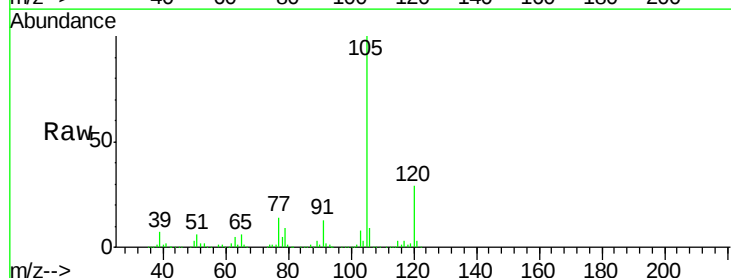
Ion Ratio Lower Upper

105 100

120 28.4 22.7 34.1

91 12.9 10.3 15.5

77 14.1 11.1 16.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

1500000

1000000

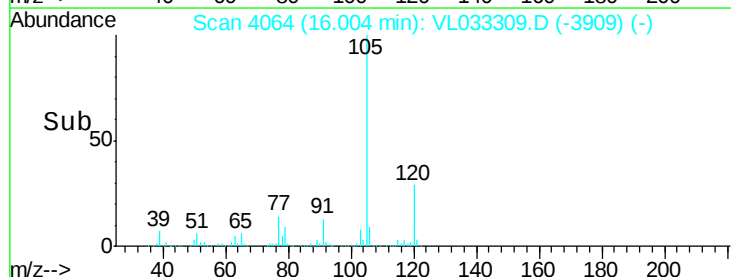
500000

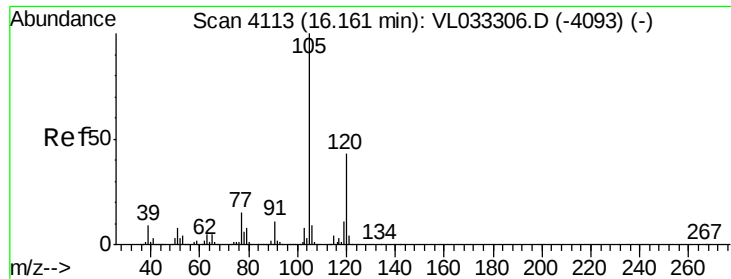
0

16.00

16.10

Time-->





#73

1,3,5-Trimethylbenzene

Concen: 11.090 ppbv

RT: 16.16 min Scan# 4113

Delta R.T. 0.00 min

Lab File: VL033309.D

Acq: 14 Mar 2019 10:16

Instrument :

MSVOA_L

ClientSampleId :

VL0313ABS01

Tgt Ion:105 Resp: 2619222

Ion Ratio Lower Upper

105 100

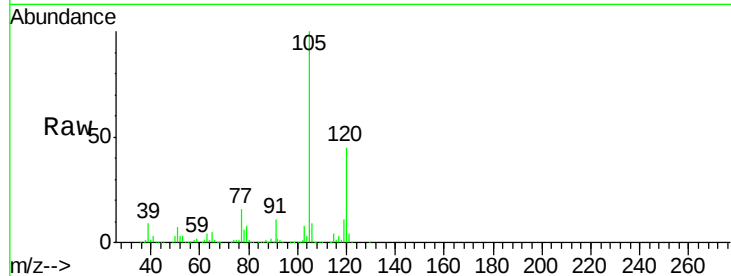
120 45.2 34.6 52.0

Manual Integrations

APPROVED

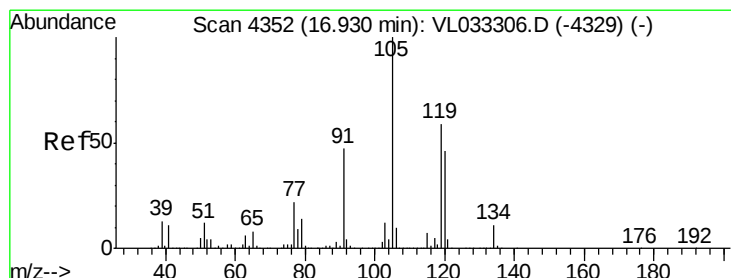
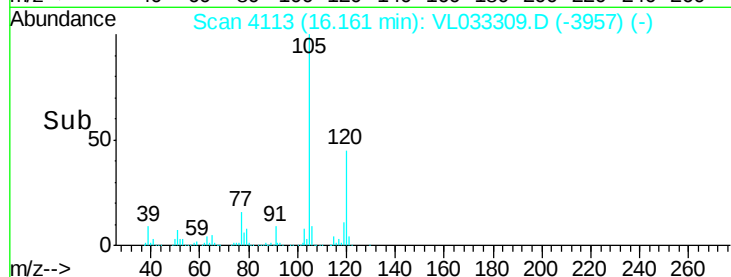
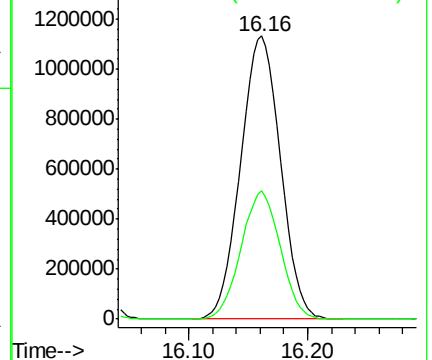
MMDadoda

3/15/2019 10:41:58 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 11.134 ppbv

RT: 16.93 min Scan# 4352

Delta R.T. -0.00 min

Lab File: VL033309.D

Acq: 14 Mar 2019 10:16

Tgt Ion:105 Resp: 2683350

Ion Ratio Lower Upper

105 100

120 46.7 35.2 52.8

91 48.2 34.0 51.0

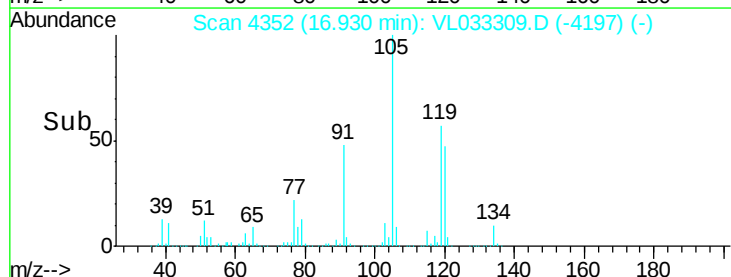
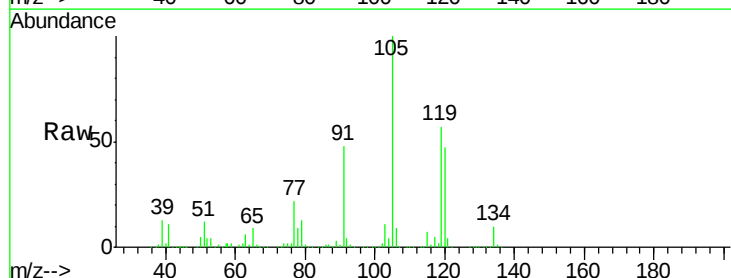
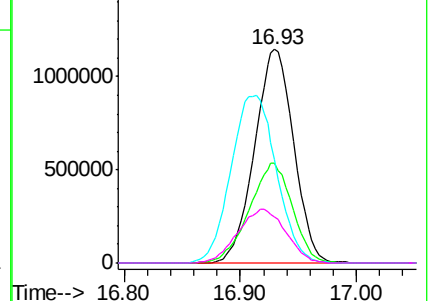
77 21.5 17.4 26.2

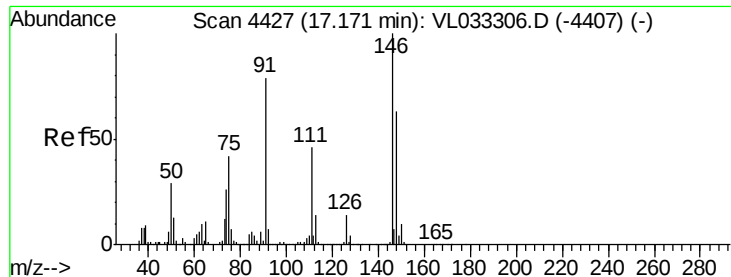
Abundance Ion 105.10 (104.80 to 105.80): V

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





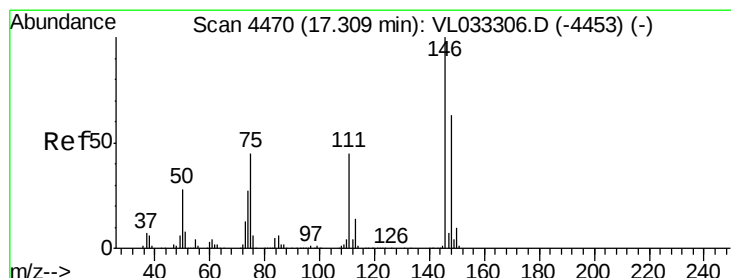
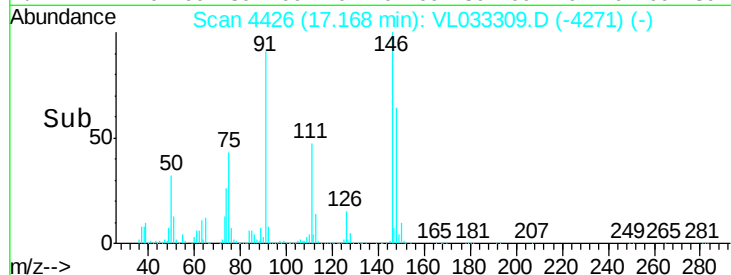
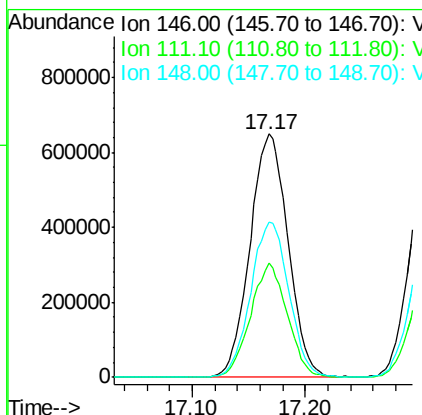
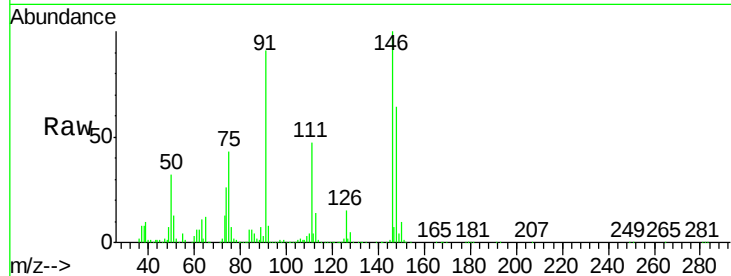
#75
 1,3-Dichlorobenzene
 Concen: 10.067 ppbv
 RT: 17.17 min Scan# 4426
 Delta R.T. -0.00 min
 Lab File: VL033309.D
 Acq: 14 Mar 2019 10:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0313ABS01

Tgt Ion:146 Resp: 1518687
 Ion Ratio Lower Upper
 146 100
 111 45.4 22.9 68.7
 148 64.1 32.4 97.0

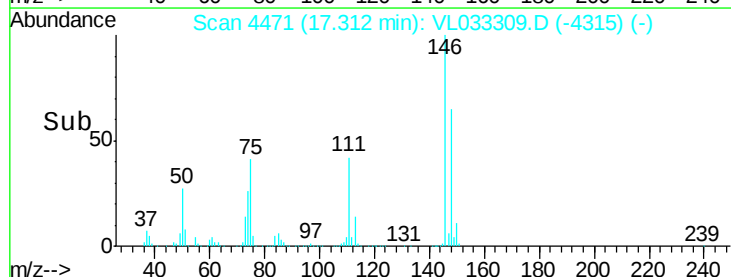
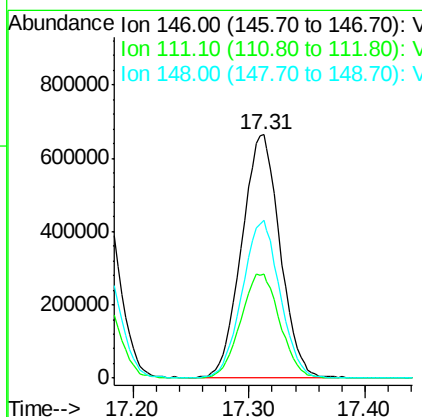
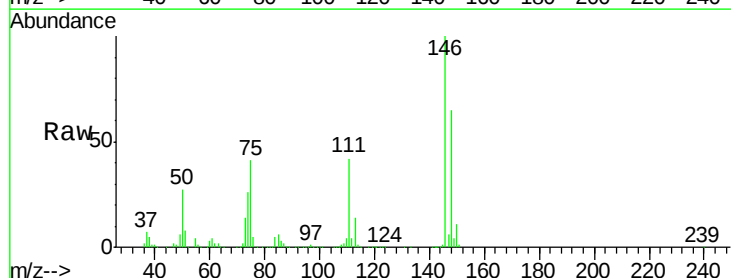
Manual Integrations
 APPROVED

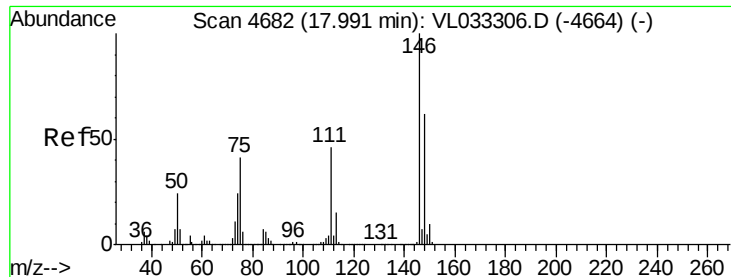
MMDadoda
 3/15/2019 10:41:58 PM



#76
 1,4-Dichlorobenzene
 Concen: 10.325 ppbv
 RT: 17.31 min Scan# 4471
 Delta R.T. 0.00 min
 Lab File: VL033309.D
 Acq: 14 Mar 2019 10:16

Tgt Ion:146 Resp: 1520983
 Ion Ratio Lower Upper
 146 100
 111 43.9 21.9 65.5
 148 64.3 31.8 95.4





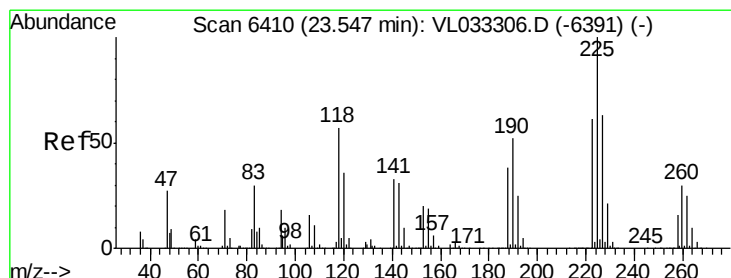
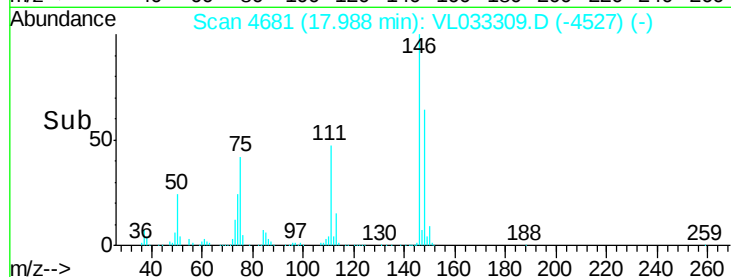
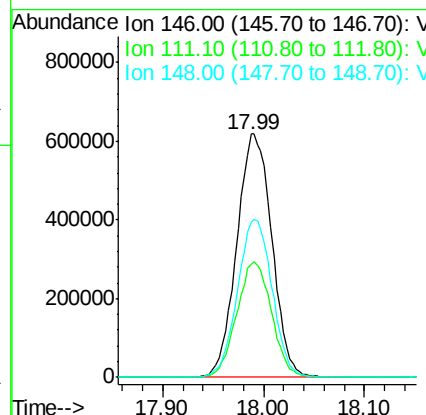
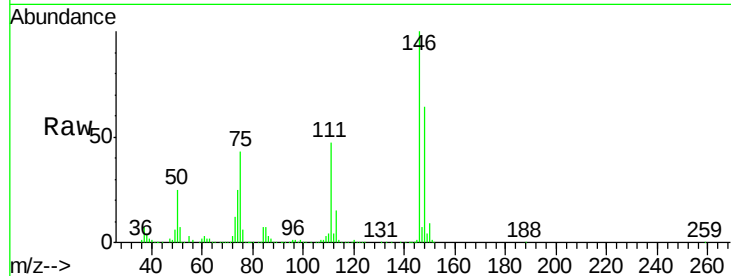
#77
 1,2-Dichlorobenzene
 Concen: 10.145 ppbv
 RT: 17.99 min Scan# 4681
 Delta R.T. -0.00 min
 Lab File: VL033309.D
 Acq: 14 Mar 2019 10:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0313ABS01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.2	23.2	69.6
148	64.2	32.0	96.0

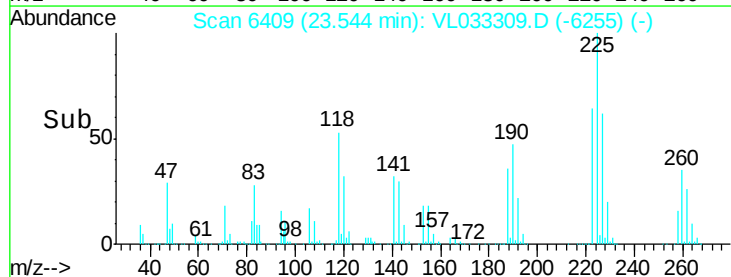
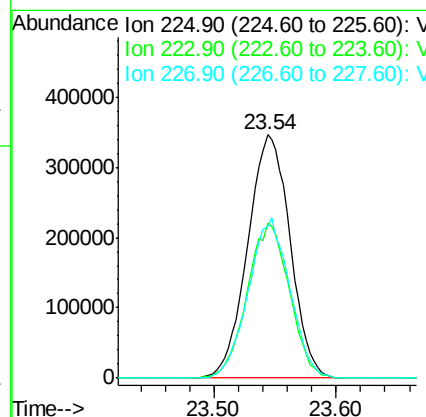
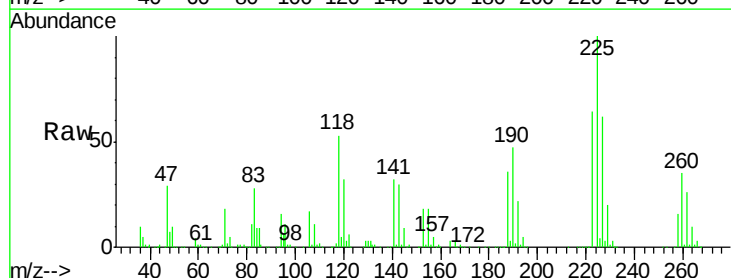
Manual Integrations
 APPROVED

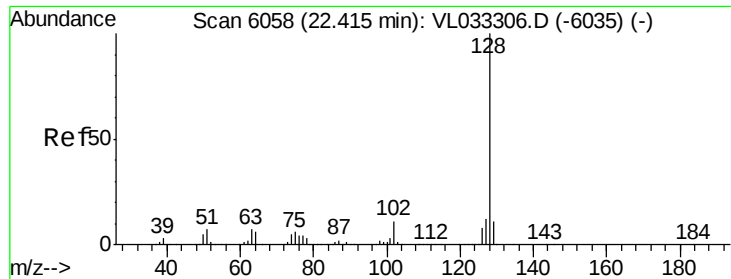
MMDadoda
 3/15/2019 10:41:58 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 7.679 ppbv
 RT: 23.54 min Scan# 6409
 Delta R.T. -0.00 min
 Lab File: VL033309.D
 Acq: 14 Mar 2019 10:16

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.4	50.3	75.5
227	64.4	51.2	76.8





#79

Naphthalene

Concen: 13.817 ppbv

RT: 22.42 min Scan# 6058

Delta R.T. -0.00 min

Lab File: VL033309.D

Acq: 14 Mar 2019 10:16

Instrument :

MSVOA_L

ClientSampleId :

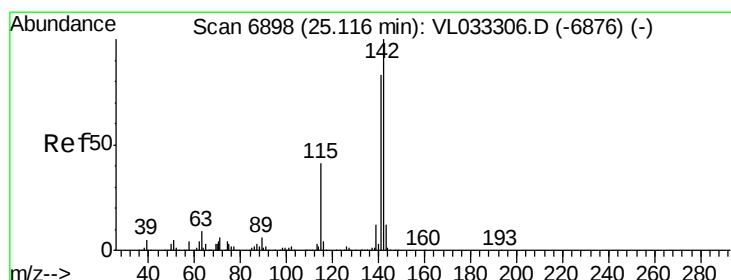
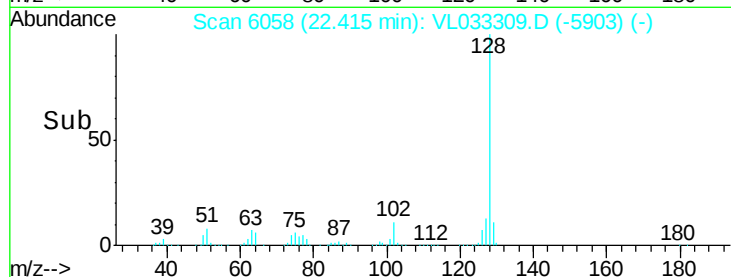
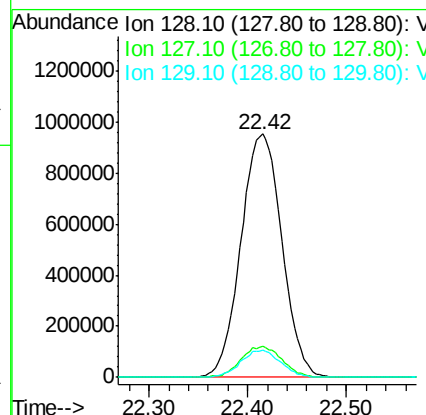
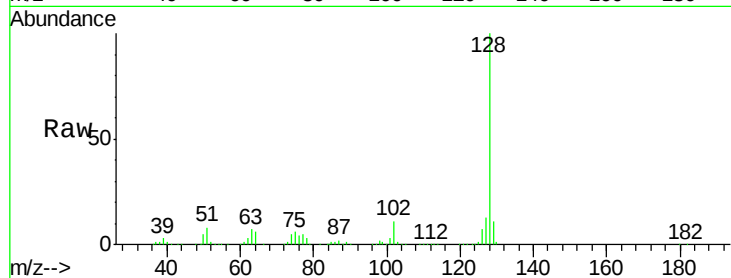
VL0313ABS01

Tgt Ion:128 Resp: 2735731

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.8	16.2
129	11.0	8.9	13.3

Manual Integrations
APPROVED

MMDadoda
3/15/2019 10:41:58 PM



#80

Naphthalene, 2-methyl-

Concen: 22.701 ppbv

RT: 25.11 min Scan# 6897

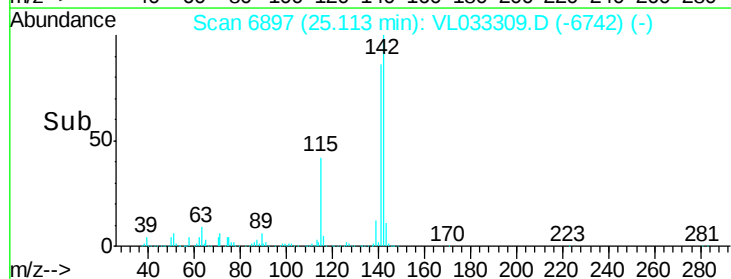
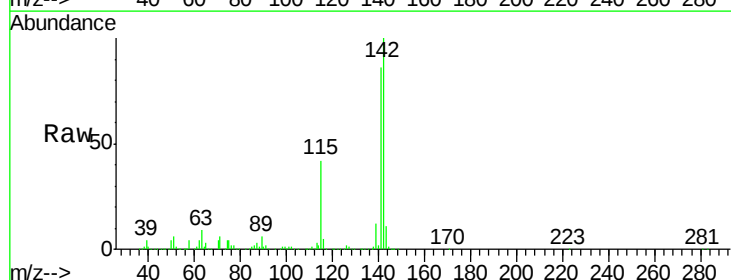
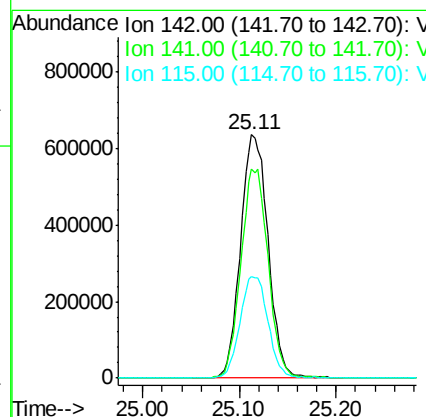
Delta R.T. -0.00 min

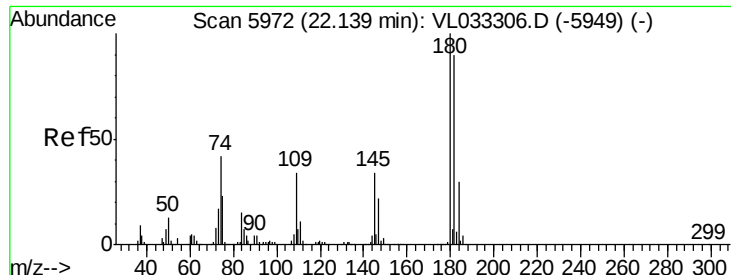
Lab File: VL033309.D

Acq: 14 Mar 2019 10:16

Tgt Ion:142 Resp: 1258916

Ion	Ratio	Lower	Upper
142	100		
141	85.5	67.2	100.8
115	42.6	33.6	50.4





#81
 1,2,4-Trichlorobenzene
 Concen: 12.185 ppbv
 RT: 22.14 min Scan# 5971
 Delta R.T. -0.01 min
 Lab File: VL033309.D
 Acq: 14 Mar 2019 10:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0313ABS01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.9	76.4	114.6
184	30.3	24.6	36.8

Manual Integrations
 APPROVED

MMDadoda
 3/15/2019 10:41:58 PM

