

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050119\
 Data File : VL033615.D
 Acq On : 1 May 2019 12:34
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 5/2/2019 4:03:49 PM

Quant Time: May 02 05:04:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050119AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 02 05:04:00 2019
 QLast Update : Thu May 02 04:03:11 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	1142919	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2737153	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2924255	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2277243	10.15	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	247457	1.437	ppbv	98
3) Chlorodifluoromethane	3.00	51	288746m	1.974	ppbv	
4) Chloromethane	3.16	50	156404	2.101	ppbv	100
5) Vinyl Chloride	3.28	62	154040	1.973	ppbv	97
6) Bromomethane	3.51	94	95535	2.079	ppbv	91
7) Chloroethane	3.59	64	52914	2.033	ppbv	100
8) Dichlorotetrafluoroethane	3.21	85	397460	2.121	ppbv	99
9) Propene	3.02	41	31095	0.795	ppbv	94
10) Heptane	8.23	43	313681	2.168	ppbv	99
11) Trichlorofluoromethane	3.99	101	398171	1.945	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.54	101	271804	1.936	ppbv	100
13) Ethanol	3.64	45	34283	1.932	ppbv	96
14) Bromoethene	3.78	108	119640	2.076	ppbv	98
15) Acetone	3.89	43	286659	2.060	ppbv	97
16) 1,3-Butadiene	3.35	39	130637	2.086	ppbv	100
17) tert-Butyl alcohol	4.35	59	233723	1.945	ppbv	100
18) 1,1-Dichloroethene	4.34	96	119368	1.956	ppbv	97
19) Isopropyl Alcohol	4.01	45	180324	1.888	ppbv #	97
20) Methylene Chloride	4.40	84	104666	1.930	ppbv	98
21) Allyl Chloride	4.47	41	167978	1.919	ppbv	100
22) trans-1,2-Dichloroethene	4.95	96	111294	1.862	ppbv	95
23) Vinyl Acetate	5.14	43	431837	2.087	ppbv	99
24) 1,1-Dichloroethane	5.08	63	323247	2.098	ppbv	98
25) Ethyl Acetate	5.76	43	565444	2.141	ppbv	99
26) Hexane	5.77	57	238326	2.143	ppbv	96
27) Carbon Disulfide	4.61	76	254444	1.889	ppbv #	94
28) Methyl tert-Butyl Ether	5.11	73	405712	2.164	ppbv	99
29) Chloroform	5.84	83	426531	2.093	ppbv	98
30) Cyclohexane	7.24	84	204593	2.122	ppbv	87
31) cis-1,2-Dichloroethene	5.63	61	238653	2.126	ppbv	96
32) 1,1,1-Trichloroethane	6.61	97	434006	2.033	ppbv	99
34) 2-Butanone	5.32	43	374347	2.228	ppbv	98
35) Carbon Tetrachloride	7.12	117	449906	2.075	ppbv	96
36) Benzene	6.99	78	504987	2.165	ppbv	99
37) 1,2-Dichloroethane	6.40	62	326575	2.107	ppbv	99
38) Trichloroethene	7.95	130	202896	2.172	ppbv	97
39) 1,2-Dichloropropane	7.72	63	188097	2.139	ppbv	90
40) 1,4-Dioxane	7.95	88	73304	2.052	ppbv	74
41) Tetrahydrofuran	6.15	42	193505	2.156	ppbv	98
42) Bromodichloromethane	7.90	83	445136	2.122	ppbv	97
43) Methyl Methacrylate	8.12	69	191143	2.164	ppbv	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050119\
 Data File : VL033615.D
 Acq On : 1 May 2019 12:34
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

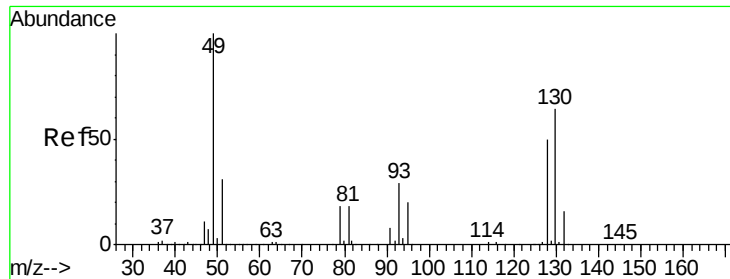
Manual Integrations
 APPROVED

MMDadoda
 5/2/2019 4:03:49 PM

Quant Time: May 02 05:04:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050119AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 02 05:04:00 2019
 QLast Update : Thu May 02 04:03:11 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.98	57	876824	2.157	ppbv	98
45) t-1,3-Dichloropropene	9.40	75	234114	1.996	ppbv	97
46) cis-1,3-Dichloropropene	8.82	75	274771	2.077	ppbv	95
47) 1,1,2-Trichloroethane	9.61	97	216369	1.886	ppbv	98
48) Dibromochloromethane	10.44	129	349625	1.801	ppbv	99
49) Bromoform	13.19	173	312460	2.101	ppbv	99
50) 4-Methyl-2-Pentanone	8.86	43	581661	2.209	ppbv	98
51) 2-Hexanone	10.26	43	446505	1.931	ppbv #	97
52) Tetrachloroethene	11.36	164	189621	2.115	ppbv	98
53) Toluene	9.93	91	576774	1.960	ppbv	99
54) 1,2-Dibromoethane	10.74	107	324900	2.060	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.27	131	264695	2.073	ppbv #	1
57) Chlorobenzene	12.29	112	474550	2.087	ppbv	99
58) Ethyl Benzene	12.85	91	795113	2.336	ppbv	93
59) m/p-Xylene	13.14	91	1362084m	4.630	ppbv	
60) o-Xylene	13.84	91	689965	2.334	ppbv	98
61) Styrene	13.67	104	471255	2.329	ppbv	98
62) Isopropylbenzene	14.81	105	913183	2.311	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.82	83	495523	2.140	ppbv	98
64) n-propylbenzene	15.71	120	239558	2.337	ppbv	92
65) tert-Butylbenzene	16.89	119	909180	2.460	ppbv	98
66) Benzyl Chloride	17.15	91	386095	2.300	ppbv	99
67) sec-Butylbenzene	17.45	105	1294944	2.495	ppbv	99
69) p-Isopropyltoluene	17.80	119	1097223	2.541	ppbv	99
70) n-Butylbenzene	18.70	91	1207311	2.570	ppbv	98
71) 2-Chlorotoluene	15.61	91	691781	2.340	ppbv	99
72) 4-Ethyltoluene	15.99	105	801573	2.379	ppbv	99
73) 1,3,5-Trimethylbenzene	16.15	105	779081	2.352	ppbv	99
74) 1,2,4-Trimethylbenzene	16.91	105	889047	2.409	ppbv	96
75) 1,3-Dichlorobenzene	17.15	146	548446	2.387	ppbv	99
76) 1,4-Dichlorobenzene	17.30	146	533953	2.436	ppbv	99
77) 1,2-Dichlorobenzene	17.98	146	529681	2.474	ppbv	100
78) Hexachloro-1,3-Butadiene	23.53	225	353074	2.163	ppbv	100
79) Naphthalene	22.40	128	814954	2.389	ppbv	95
80) Naphthalene, 2-methyl-	25.10	142	383251	2.590	ppbv	99
81) 1,2,4-Trichlorobenzene	22.12	180	456968	2.313	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 875

Delta R.T. -0.00 min

Lab File: VL033615.D

Acq: 1 May 2019 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 49 Resp: 1142919

Ion Ratio Lower Upper

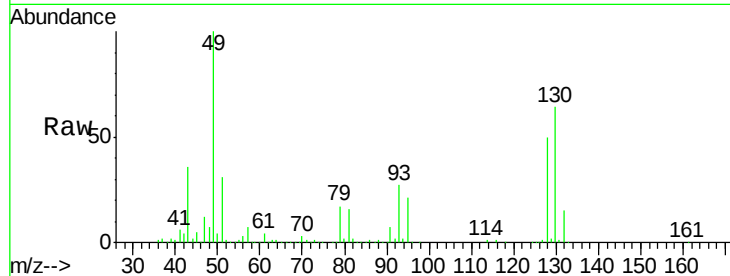
49 100

128 49.9 25.0 75.0

130 63.1 31.9 95.9

Manual Integrations
APPROVED

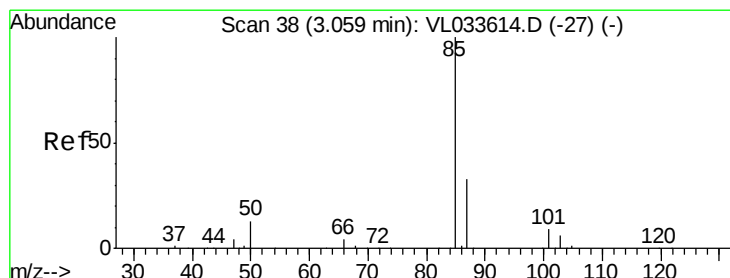
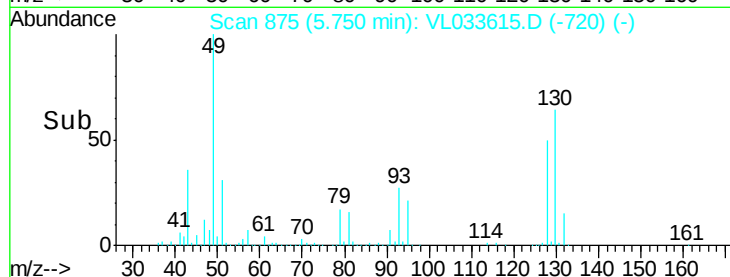
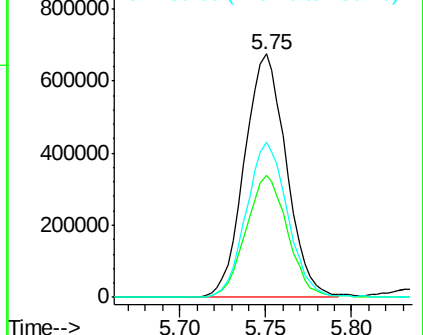
MMDadoda
5/2/2019 4:03:49 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 1.437 ppbv

RT: 3.06 min Scan# 37

Delta R.T. -0.00 min

Lab File: VL033615.D

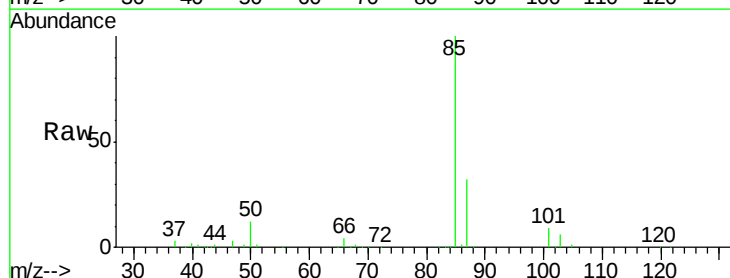
Acq: 1 May 2019 12:34

Tgt Ion: 85 Resp: 247457

Ion Ratio Lower Upper

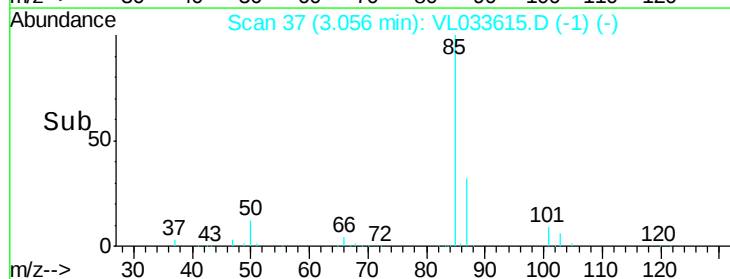
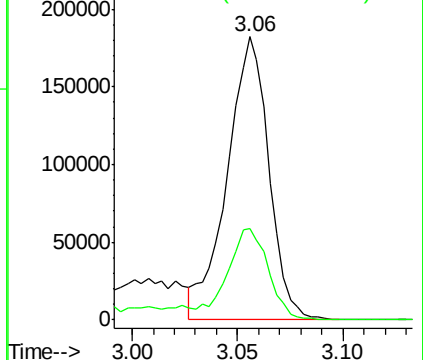
85 100

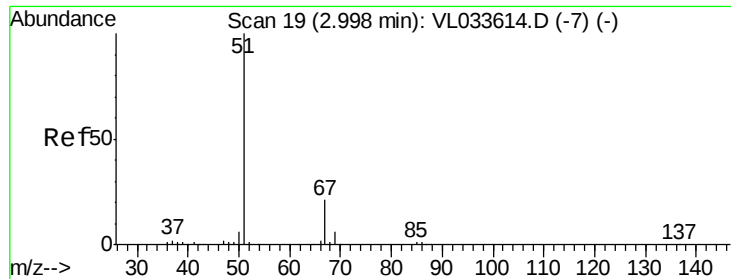
87 32.2 26.8 40.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

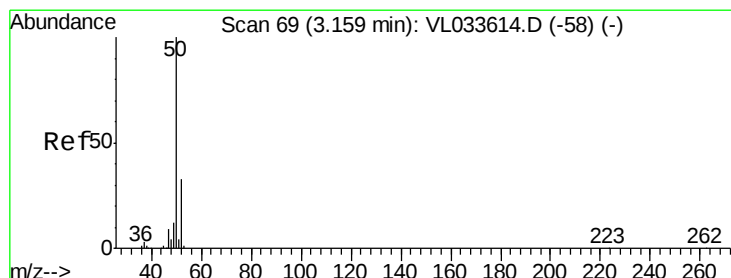
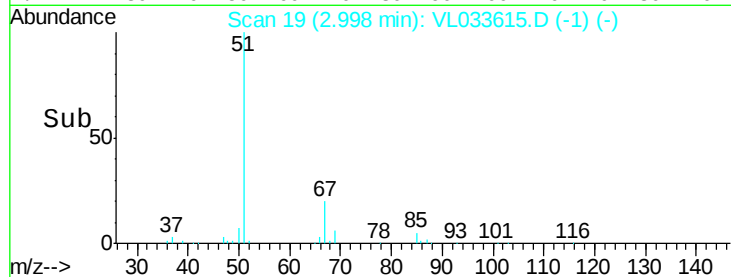
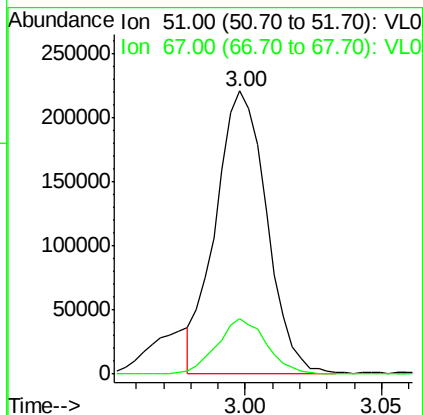
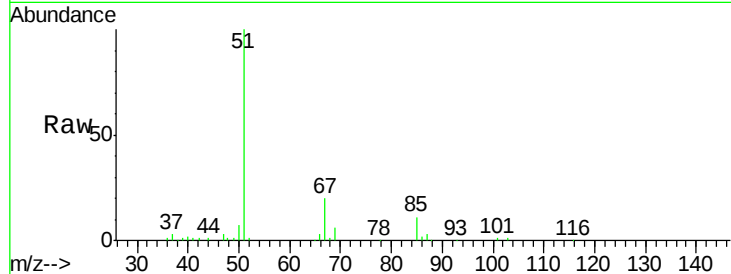
Chlorodifluoromethane
 Concen: 1.974 ppbv
 RT: 3.00 min Scan# 19
 Delta R.T. 0.00 min
 Lab File: VL033615.D
 Acq: 1 May 2019 12:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	51	Resp	288746
Ion Ratio	100	Lower	Upper
51	100		
67	18.9	15.6	23.4

Manual Integrations
 APPROVED

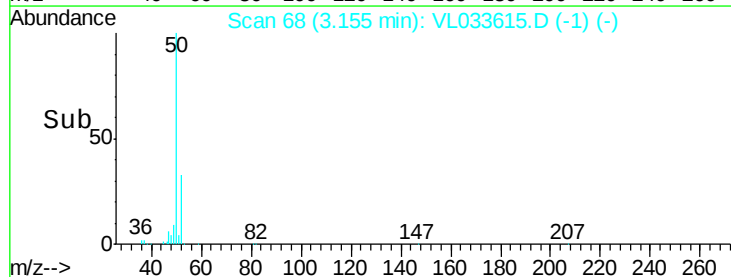
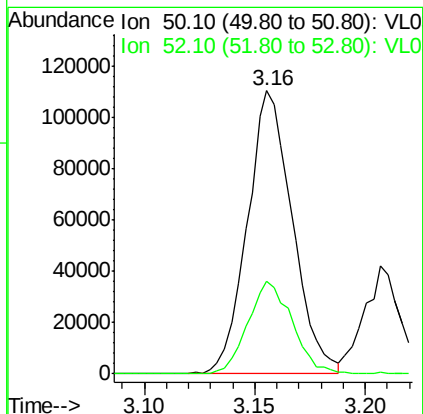
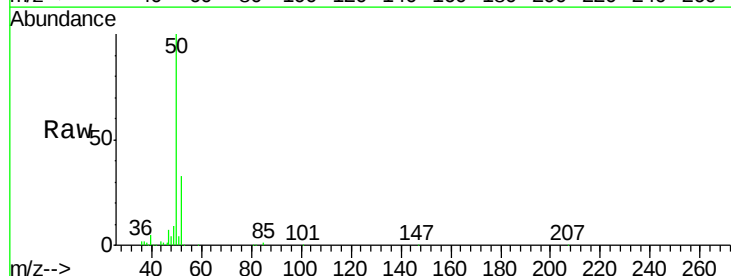
MMDadoda
 5/2/2019 4:03:49 PM

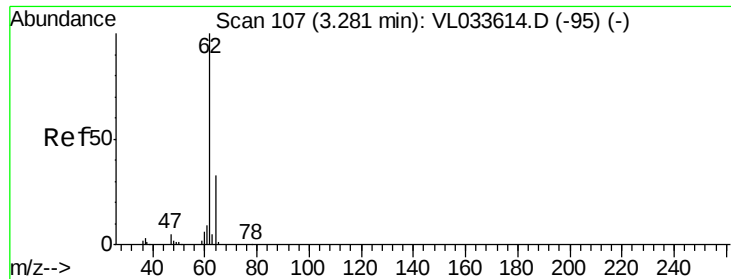


#4

Chloromethane
 Concen: 2.101 ppbv
 RT: 3.16 min Scan# 68
 Delta R.T. -0.00 min
 Lab File: VL033615.D
 Acq: 1 May 2019 12:34

Tgt Ion	50	Resp	156404
Ion Ratio	100	Lower	Upper
50	100		
52	32.7	26.0	39.0





#5

Vinyl Chloride

Concen: 1.973 ppbv

RT: 3.28 min Scan# 106

Delta R.T. -0.00 min

Lab File: VL033615.D

Acq: 1 May 2019 12:34

Instrument :

MSVOA_L

ClientSampled :

VSTDIC002

Tot Ion: 62 Resp: 154040

Ion Ratio Lower Upper

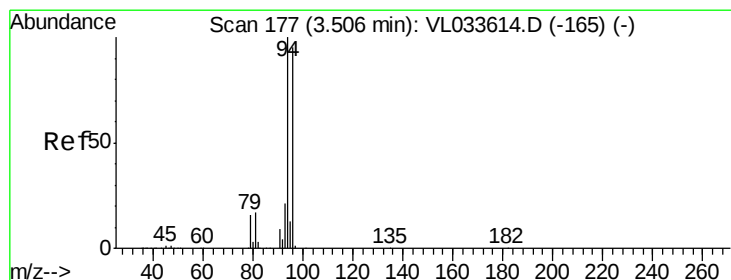
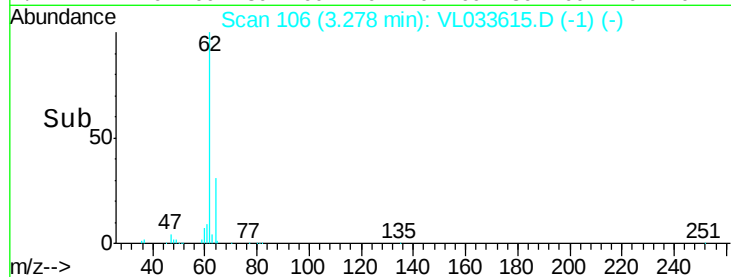
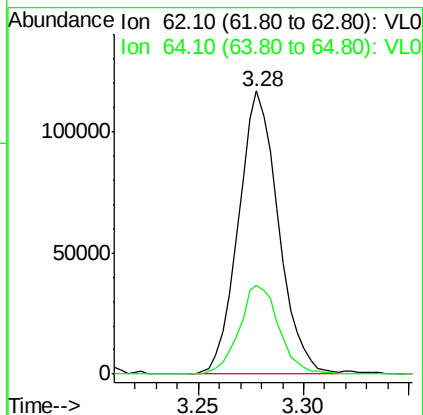
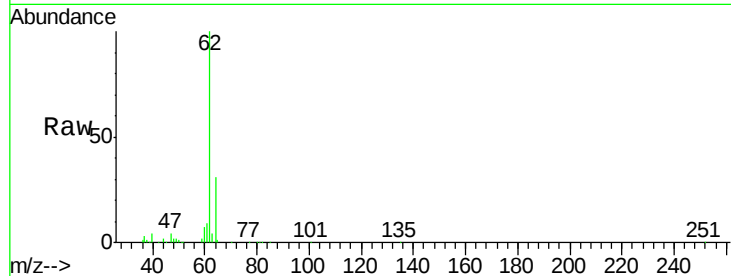
62 100

64 31.3 26.2 39.4

Manual Integrations
APPROVED

MMDadoda

5/2/2019 4:03:49 PM



#6

Bromomethane

Concen: 2.079 ppbv

RT: 3.51 min Scan# 177

Delta R.T. 0.00 min

Lab File: VL033615.D

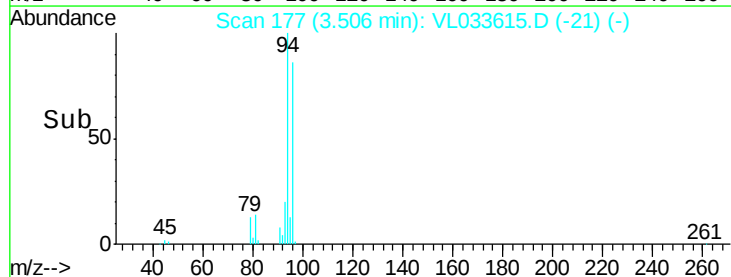
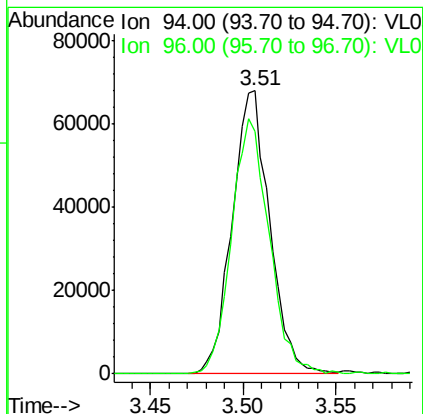
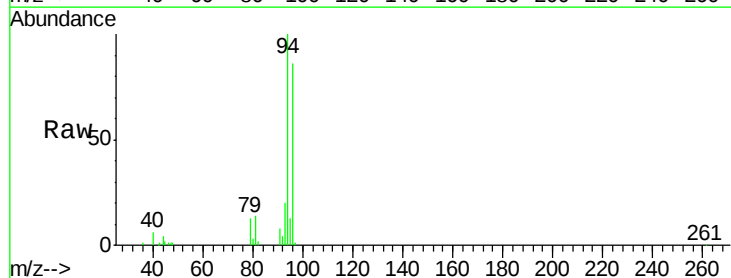
Acq: 1 May 2019 12:34

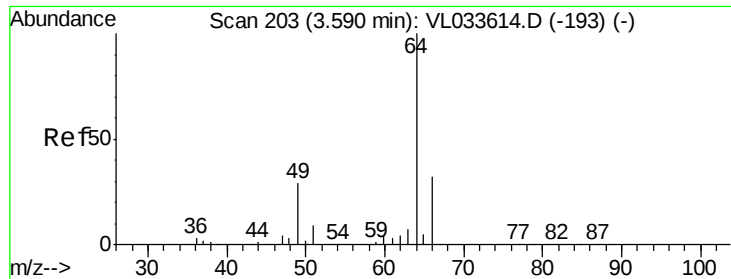
Tgt Ion: 94 Resp: 95535

Ion Ratio Lower Upper

94 100

96 85.8 75.7 113.5





#7

Chloroethane

Concen: 2.033 ppbv

RT: 3.59 min Scan# 203

Delta R.T. 0.00 min

Lab File: VL033615.D

Acq: 1 May 2019 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 64 Resp: 52914

Ion Ratio Lower Upper

64 100

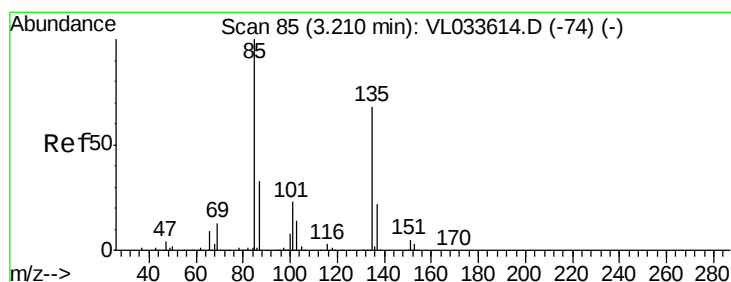
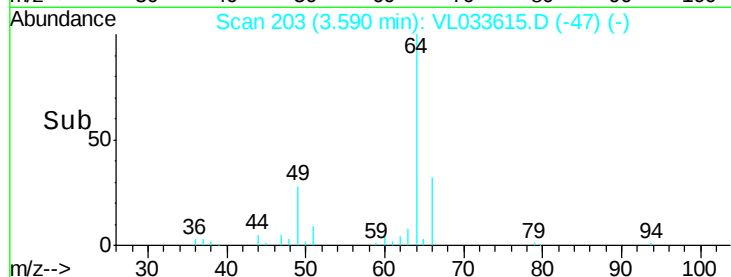
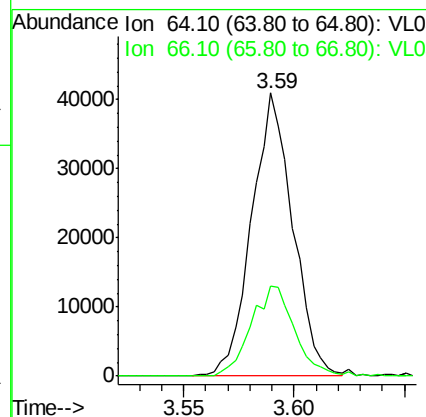
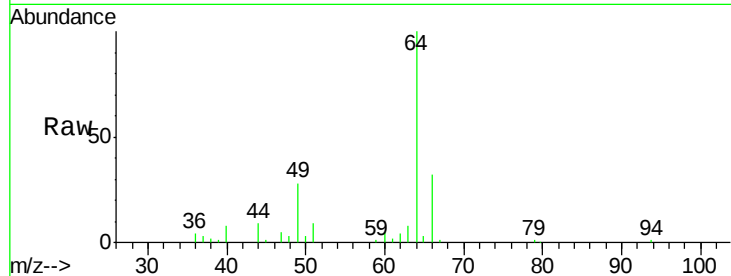
66 31.7 25.4 38.2

Manual Integrations

APPROVED

MMDadoda

5/2/2019 4:03:49 PM



#8

Dichlorotetrafluoroethane

Concen: 2.121 ppbv

RT: 3.21 min Scan# 84

Delta R.T. -0.00 min

Lab File: VL033615.D

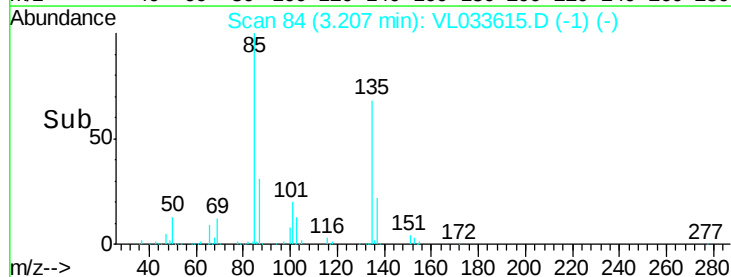
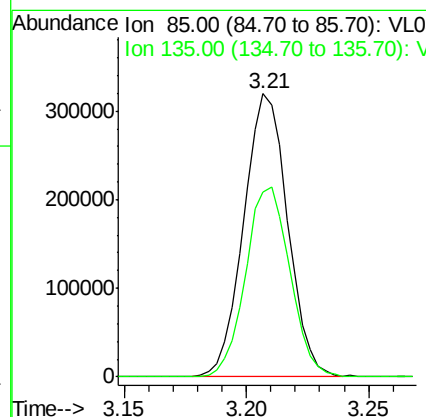
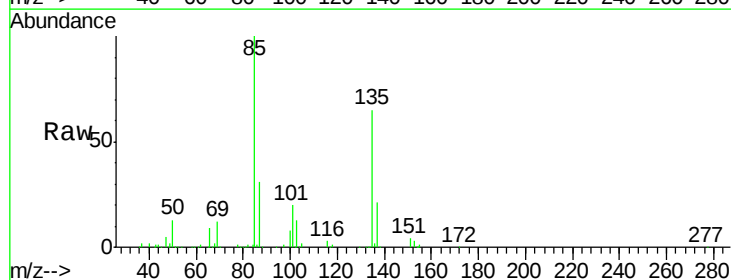
Acq: 1 May 2019 12:34

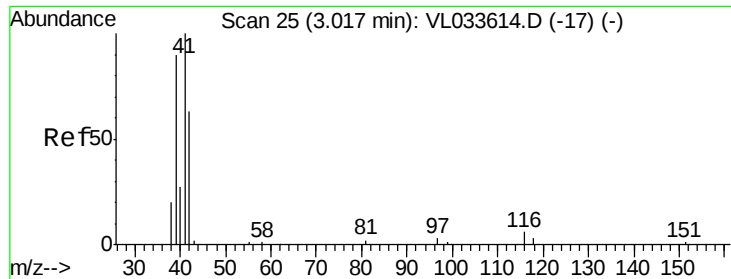
Tgt Ion: 85 Resp: 397460

Ion Ratio Lower Upper

85 100

135 67.9 55.0 82.6





#9

Propene

Concen: 0.795 ppbv

RT: 3.02 min Scan# 26

Delta R.T. 0.00 min

Lab File: VL033615.D

Acq: 1 May 2019 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 41 Resp: 31095

Ion Ratio Lower Upper

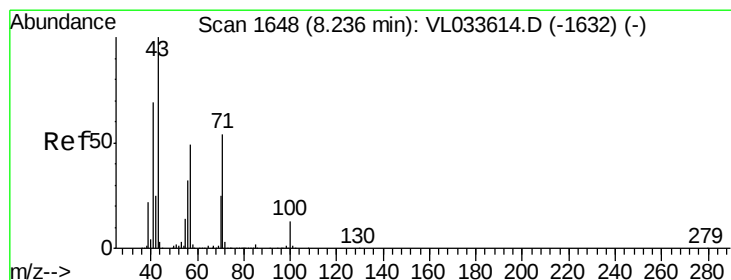
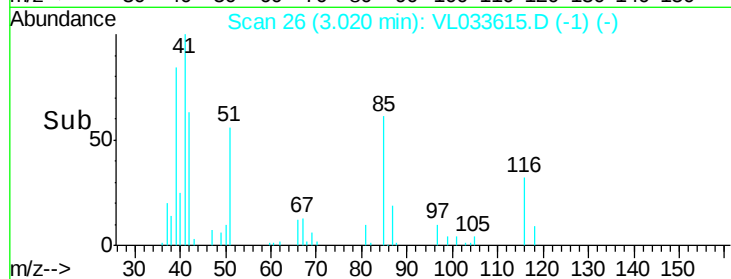
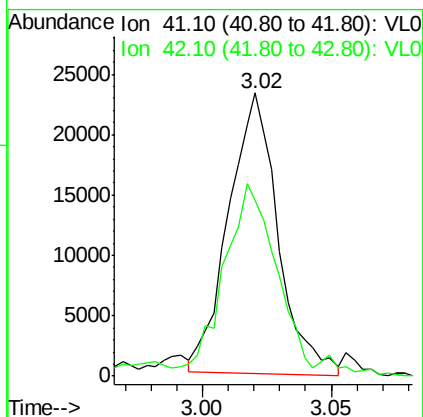
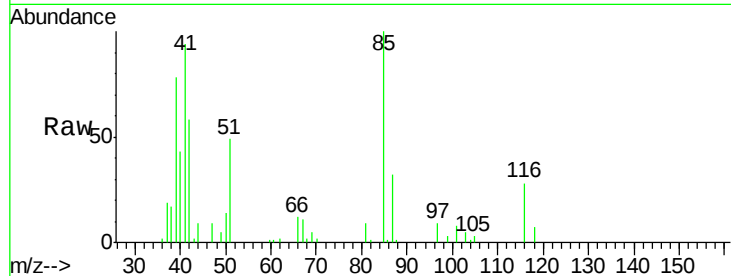
41 100

42 77.3 66.0 99.0

Manual Integrations
APPROVED

MMDadoda

5/2/2019 4:03:49 PM



#10

Heptane

Concen: 2.168 ppbv

RT: 8.23 min Scan# 1647

Delta R.T. -0.00 min

Lab File: VL033615.D

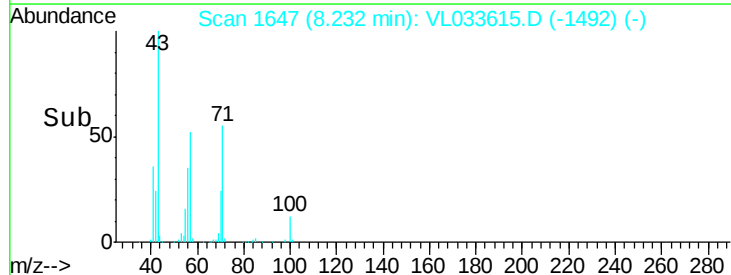
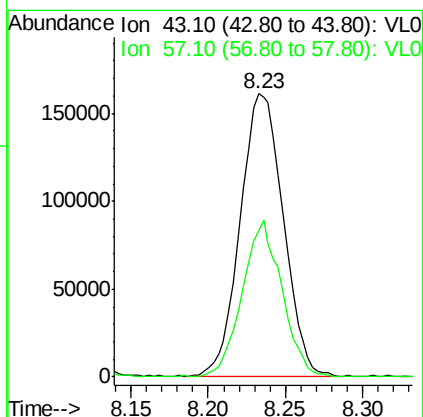
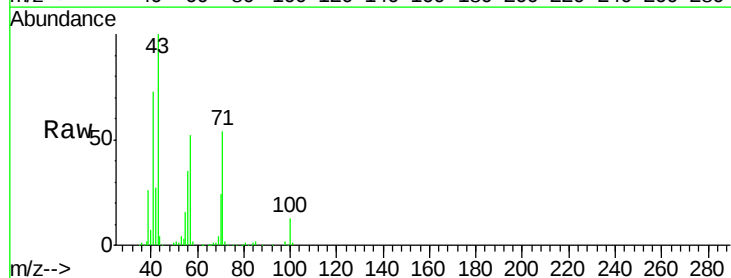
Acq: 1 May 2019 12:34

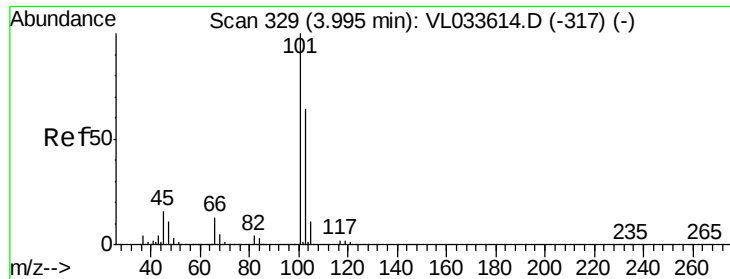
Tgt Ion: 43 Resp: 313681

Ion Ratio Lower Upper

43 100

57 51.1 40.3 60.5





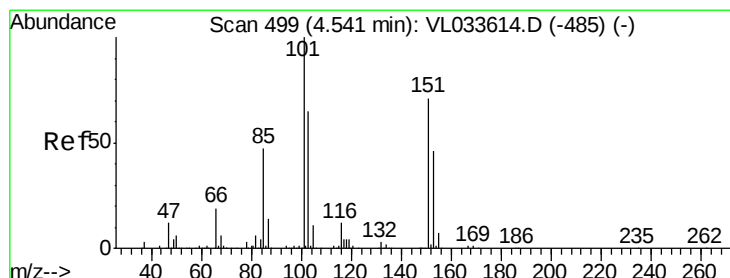
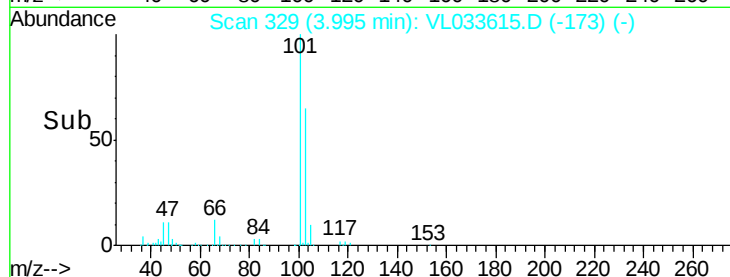
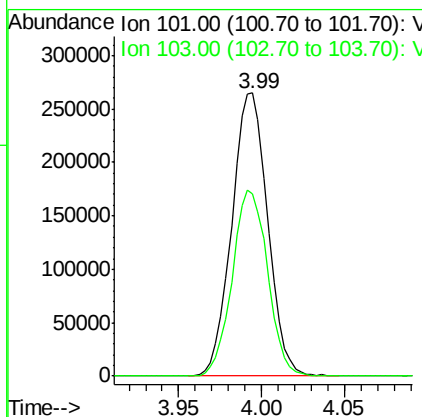
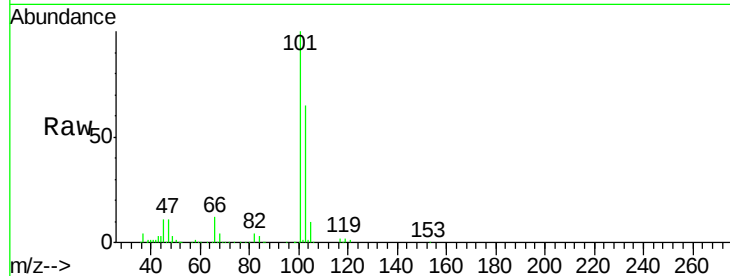
#11
 Trichlorofluoromethane
 Concen: 1.945 ppbv
 RT: 3.99 min Scan# 329
 Delta R.T. 0.00 min
 Lab File: VL033615.D
 Acq: 1 May 2019 12:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.6	51.2	76.8

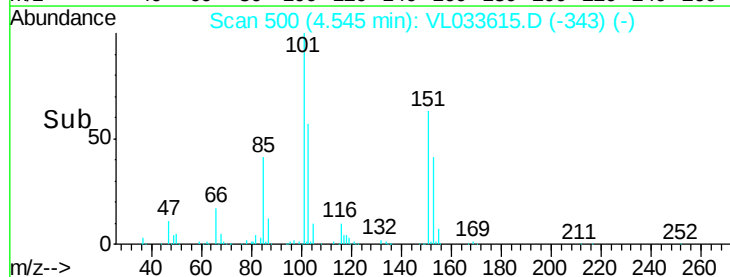
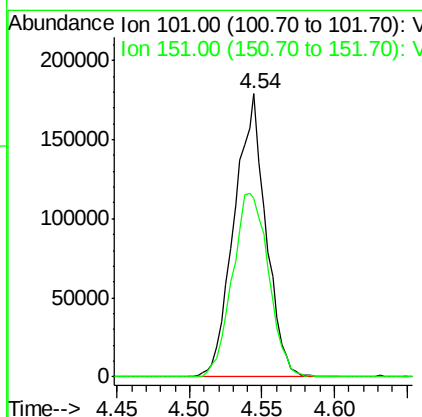
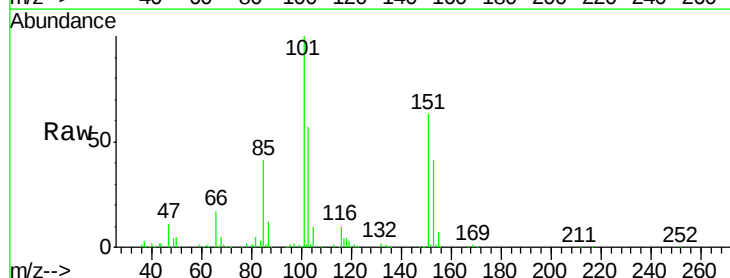
Manual Integrations
 APPROVED

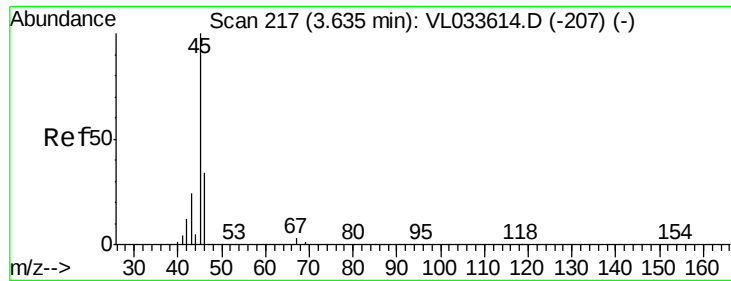
MMDadoda
 5/2/2019 4:03:49 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.936 ppbv
 RT: 4.54 min Scan# 500
 Delta R.T. 0.00 min
 Lab File: VL033615.D
 Acq: 1 May 2019 12:34

Tgt Ion	Ratio	Lower	Upper
101	100		
151	74.0	59.2	88.8





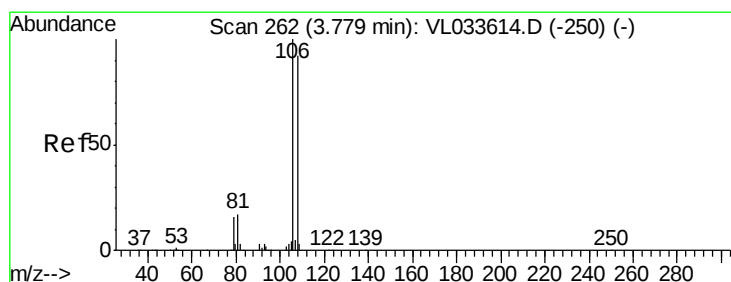
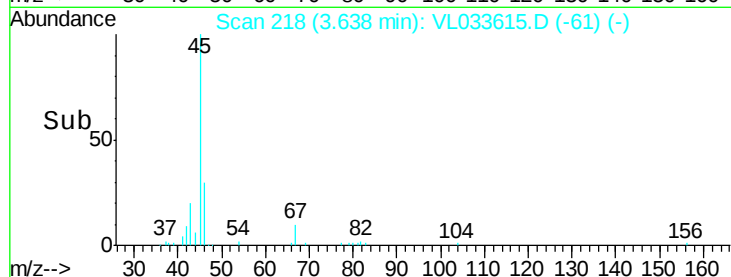
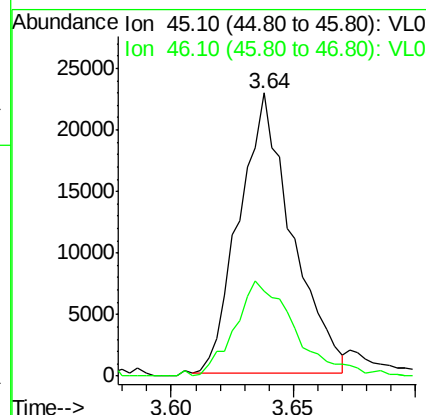
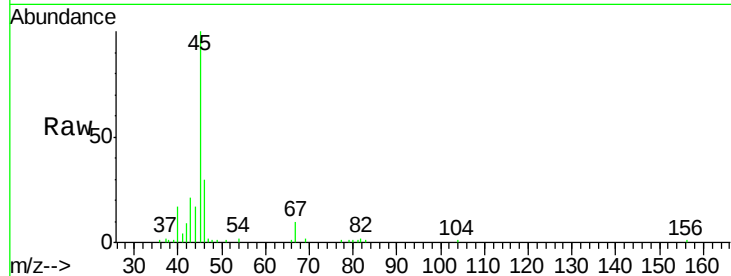
#13
Ethanol
Concen: 1.932 ppbv
RT: 3.64 min Scan# 218
Delta R.T. 0.00 min
Lab File: VL033615.D
Acq: 1 May 2019 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 45 Resp: 34283
Ion Ratio Lower Upper
45 100
46 38.9 14.6 58.2

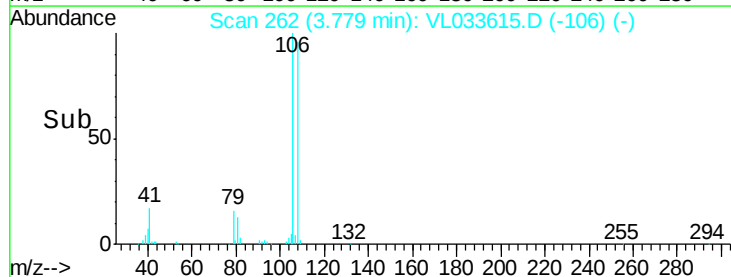
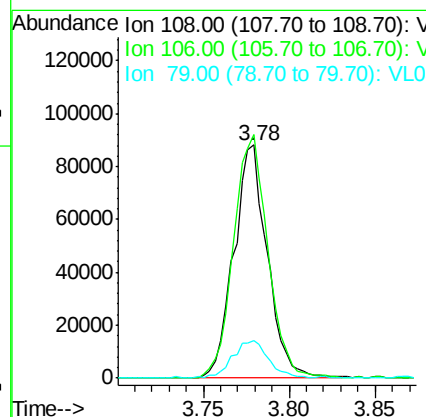
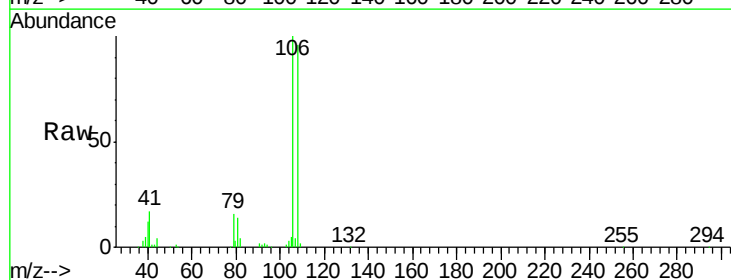
Manual Integrations
APPROVED

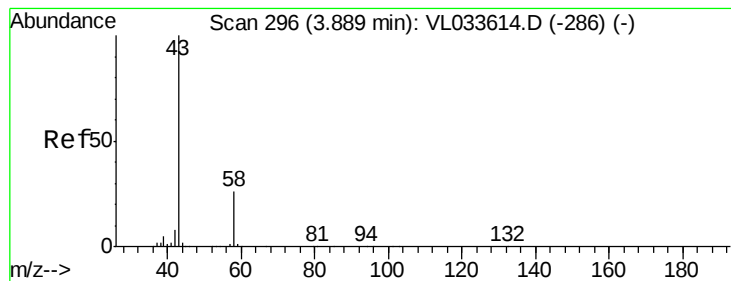
MMDadoda
5/2/2019 4:03:49 PM



#14
Bromoethene
Concen: 2.076 ppbv
RT: 3.78 min Scan# 262
Delta R.T. 0.00 min
Lab File: VL033615.D
Acq: 1 May 2019 12:34

Tgt Ion: 108 Resp: 119640
Ion Ratio Lower Upper
108 100
106 107.5 84.6 127.0
79 17.6 14.4 21.6





#15

Acetone

Concen: 2.060 ppbv

RT: 3.89 min Scan# 297

Delta R.T. 0.00 min

Lab File: VL033615.D

Acq: 1 May 2019 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 43 Resp: 286659

Ion Ratio Lower Upper

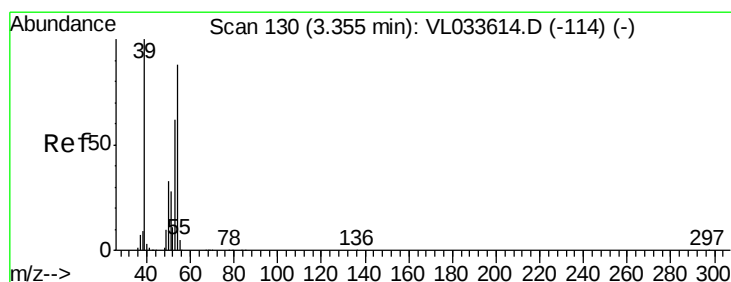
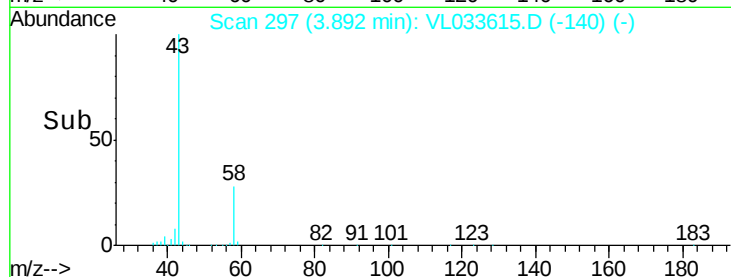
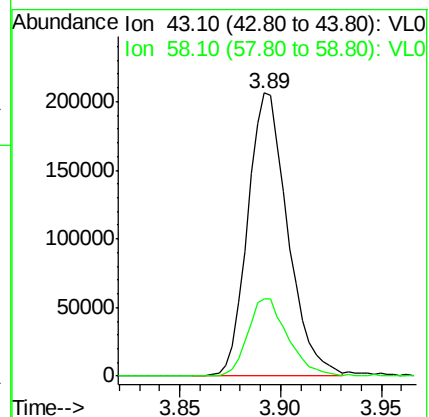
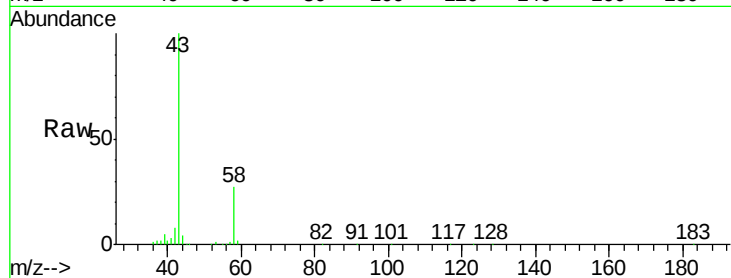
43 100

58 27.8 21.2 31.8

Manual Integrations
APPROVED

MMDadoda

5/2/2019 4:03:49 PM



#16

1,3-Butadiene

Concen: 2.086 ppbv

RT: 3.35 min Scan# 129

Delta R.T. -0.00 min

Lab File: VL033615.D

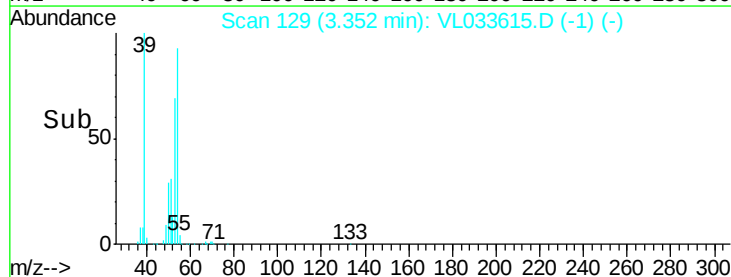
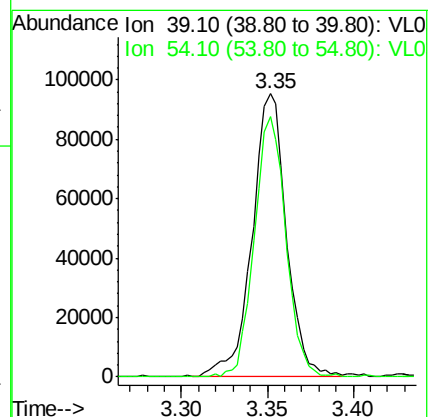
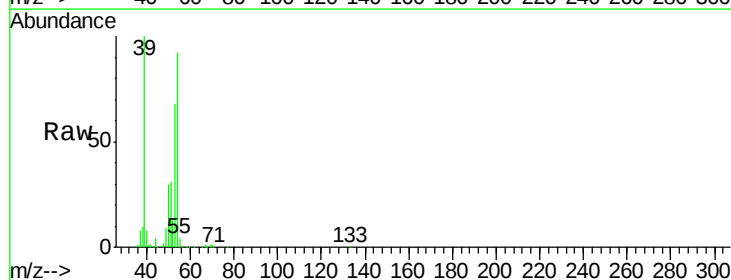
Acq: 1 May 2019 12:34

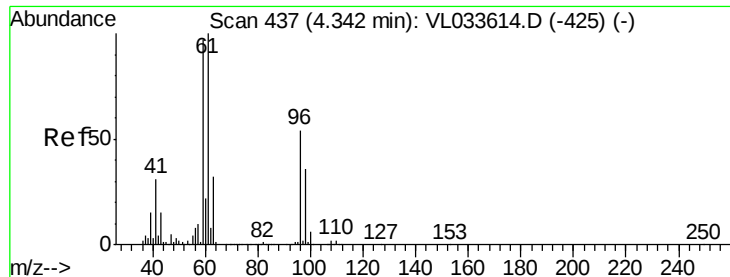
Tgt Ion: 39 Resp: 130637

Ion Ratio Lower Upper

39 100

54 85.5 68.4 102.6





#17

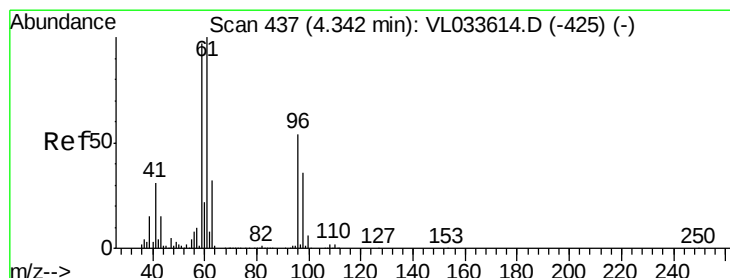
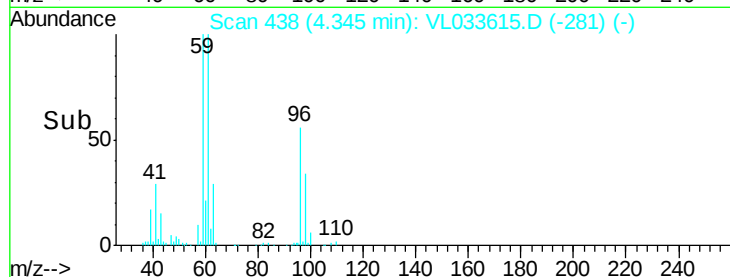
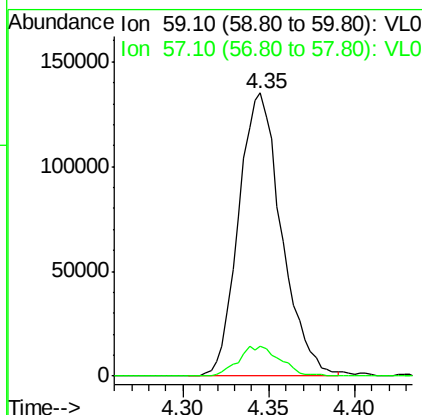
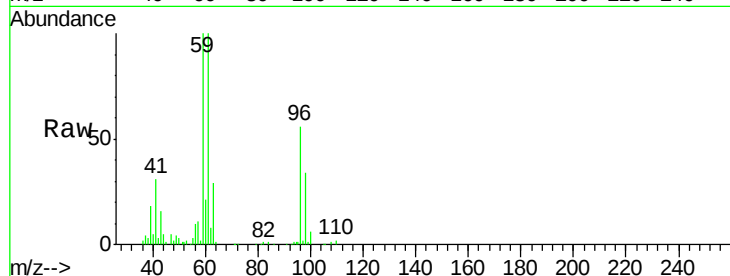
tert-Butyl alcohol
Concen: 1.945 ppbv
RT: 4.35 min Scan# 438
Delta R.T. 0.00 min
Lab File: VL033615.D
Acq: 1 May 2019 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	59	Resp	233723
Ion Ratio	Lower	Upper	
59	100		
57	10.4	8.4	12.6

Manual Integrations
APPROVED

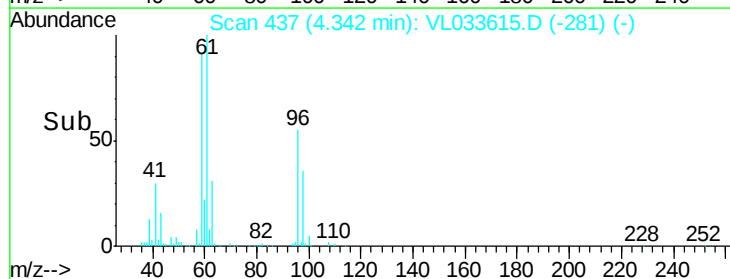
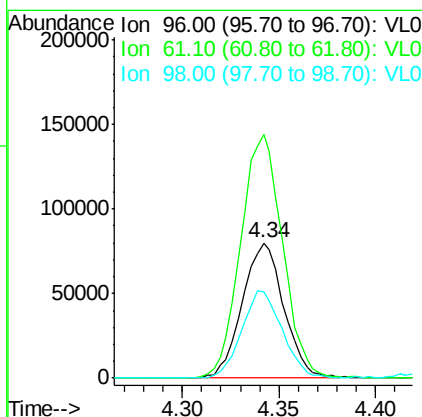
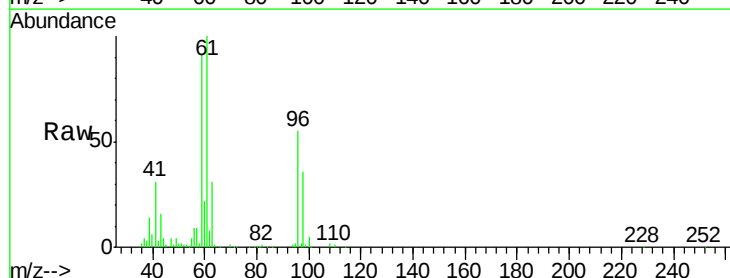
MMDadoda
5/2/2019 4:03:49 PM

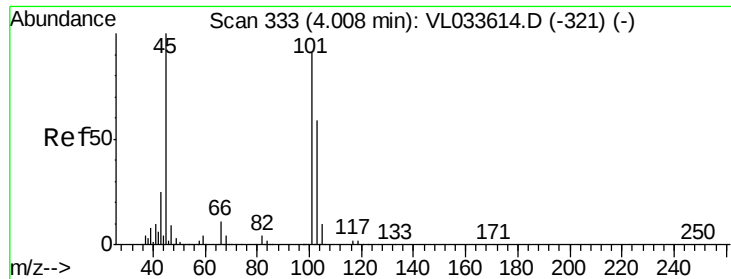


#18

1,1-Dichloroethene
Concen: 1.956 ppbv
RT: 4.34 min Scan# 437
Delta R.T. 0.00 min
Lab File: VL033615.D
Acq: 1 May 2019 12:34

Tgt Ion	96	Resp	119368
Ion Ratio	Lower	Upper	
96	100		
61	180.4	147.3	220.9
98	64.1	53.6	80.4





#19

Isopropyl Alcohol

Concen: 1.888 ppbv

RT: 4.01 min Scan# 334

Delta R.T. 0.00 min

Lab File: VL033615.D

Acq: 1 May 2019 12:34

Tot Ion: 45 Resp: 180324

Ion Ratio Lower Upper

45 100

58 3.2 1.8 2.6#

Instrument :

MSVOA_L

ClientSampleId :

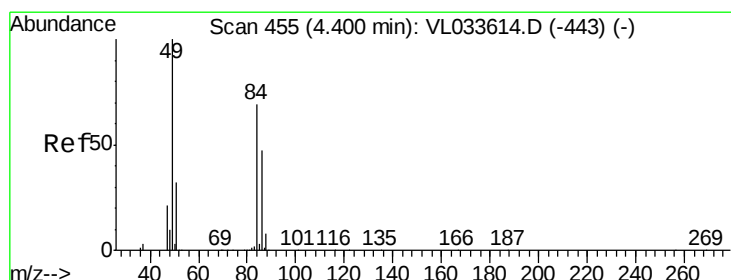
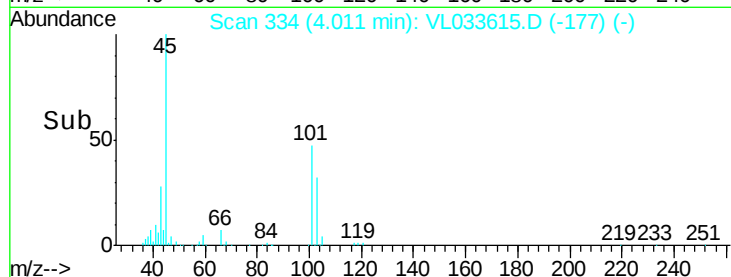
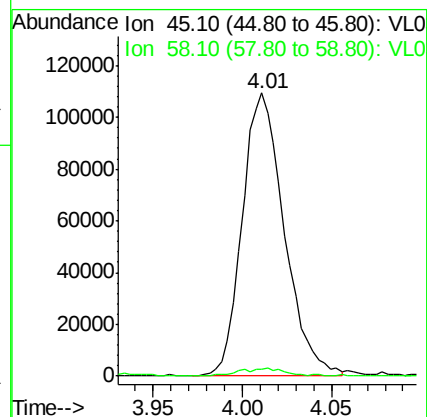
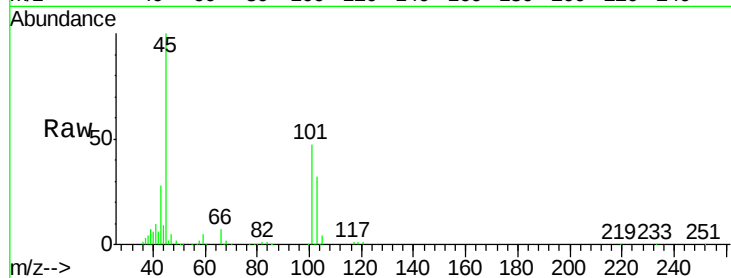
VSTDIC002

Manual Integrations

APPROVED

MMDadoda

5/2/2019 4:03:49 PM



#20

Methylene Chloride

Concen: 1.930 ppbv

RT: 4.40 min Scan# 455

Delta R.T. 0.00 min

Lab File: VL033615.D

Acq: 1 May 2019 12:34

Tgt Ion: 84 Resp: 104666

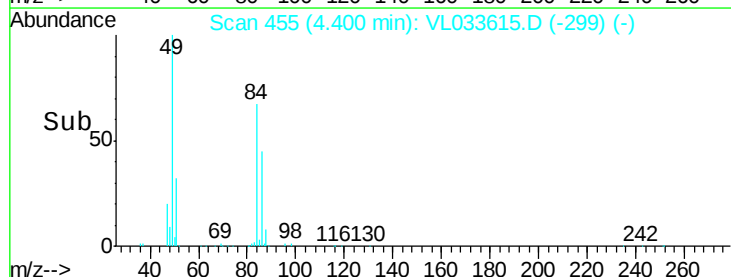
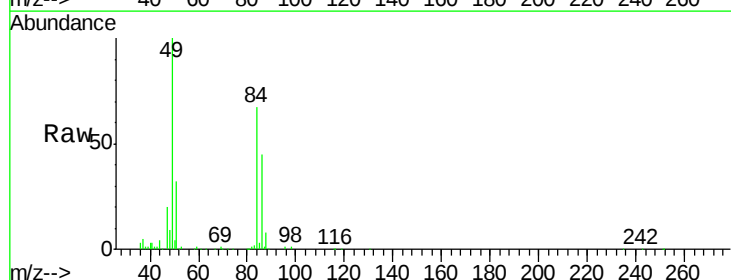
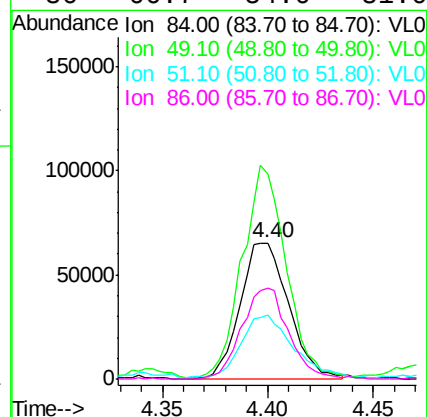
Ion Ratio Lower Upper

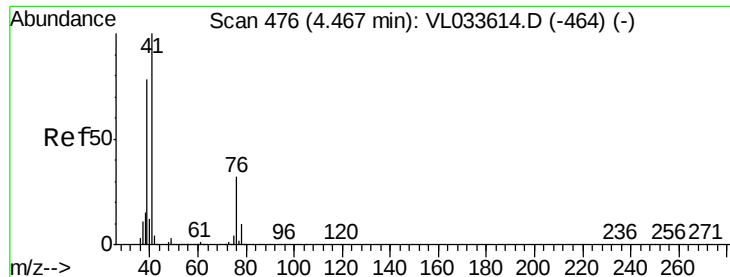
84 100

49 149.1 116.2 174.2

51 45.4 37.0 55.6

86 66.7 54.0 81.0





#21

Allvl Chloride

Concen: 1.919 ppbv

RT: 4.47 min Scan# 476

Delta R.T. 0.00 min

Lab File: VL033615.D

Acq: 1 May 2019 12:34

Instrument :

MSVOA_L

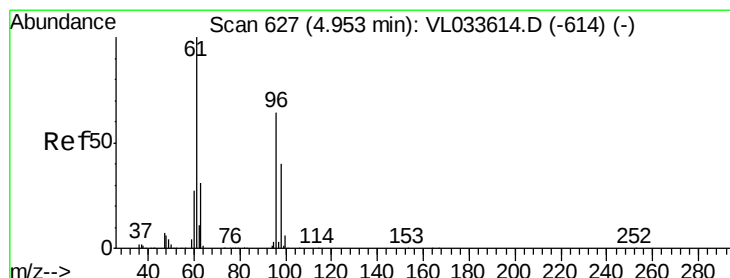
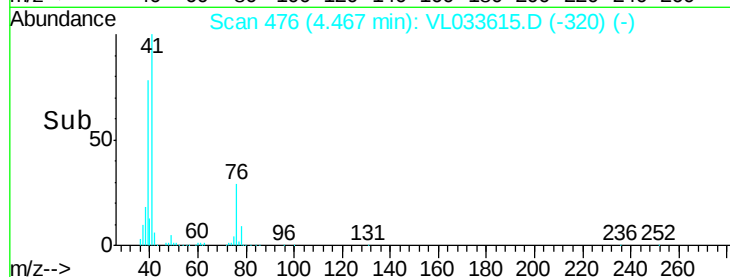
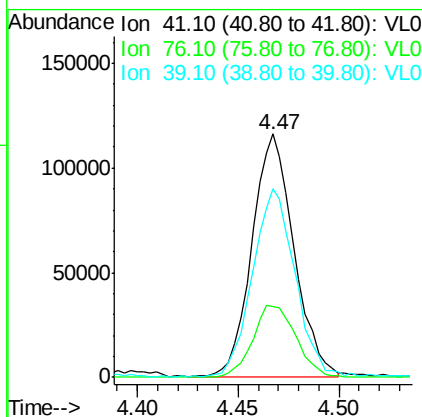
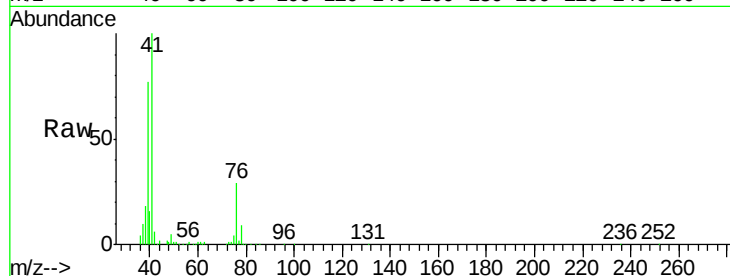
ClientSampleId :

VSTDIC002

Tot Ion:	41	Resp:	167978
Ion	Ratio	Lower	Upper
41	100		
76	30.9	25.0	37.6
39	81.0	64.6	96.8

Manual Integrations
APPROVED

MMDadoda
5/2/2019 4:03:49 PM



#22

trans-1,2-Dichloroethene

Concen: 1.862 ppbv

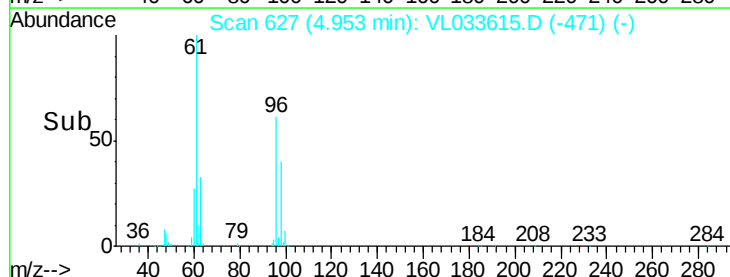
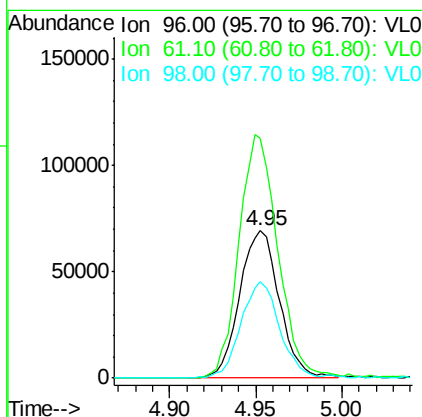
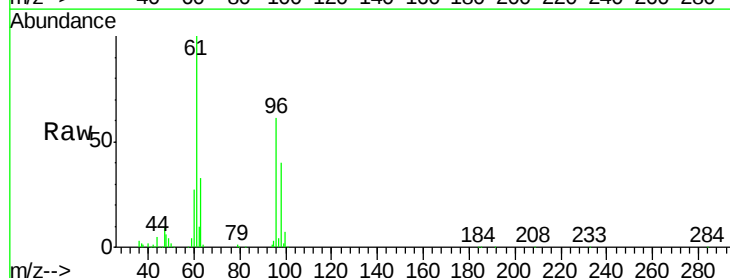
RT: 4.95 min Scan# 627

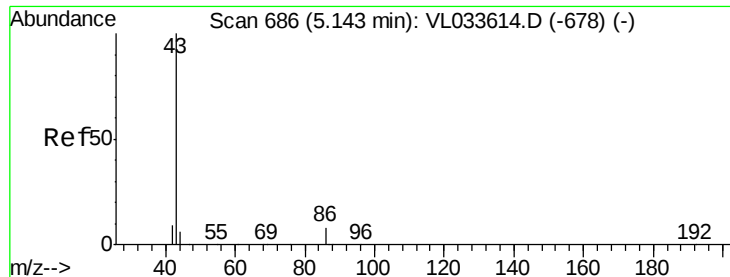
Delta R.T. 0.00 min

Lab File: VL033615.D

Acq: 1 May 2019 12:34

Tgt Ion:	96	Resp:	111294
Ion	Ratio	Lower	Upper
96	100		
61	162.8	124.9	187.3
98	65.4	50.5	75.7





#23

Vinyl Acetate

Concen: 2.087 ppbv

RT: 5.14 min Scan# 686

Delta R.T. 0.00 min

Lab File: VL033615.D

Acq: 1 May 2019 12:34

Instrument :

MSVOA_L

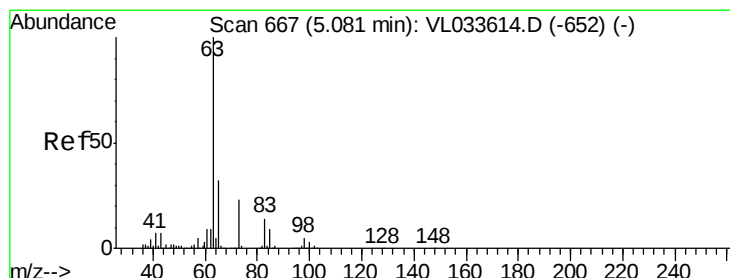
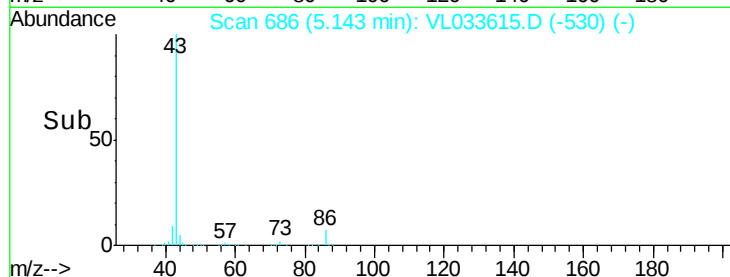
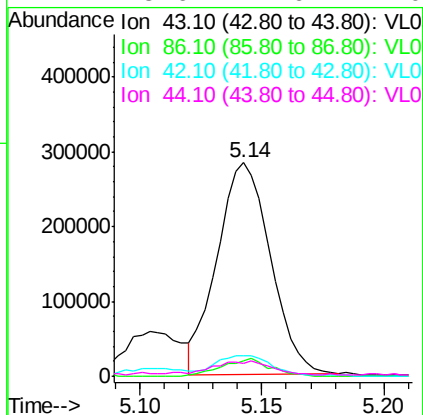
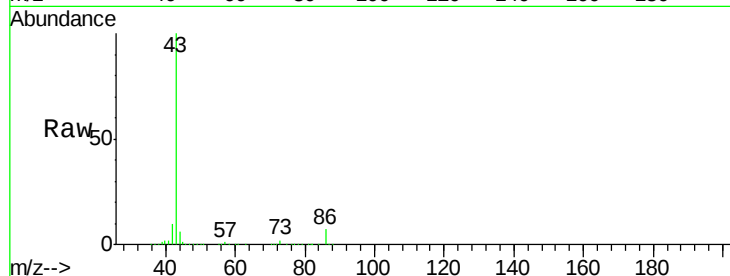
ClientSampleId :

VSTDIC002

Tot Ion:	43	Resp:	431837
Ion	Ratio	Lower	Upper
43	100		
86	7.7	5.8	8.8
42	9.3	7.8	11.8
44	5.6	4.6	7.0

Manual Integrations
APPROVED

MMDadoda
5/2/2019 4:03:49 PM



#24

1,1-Dichloroethane

Concen: 2.098 ppbv

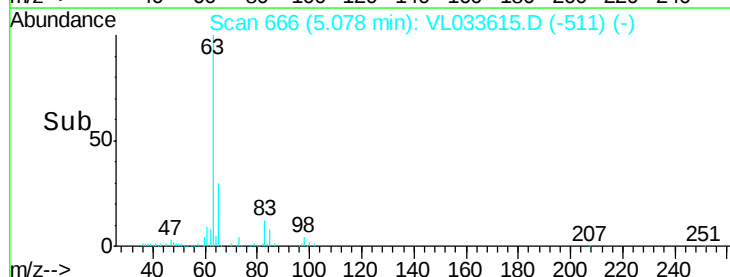
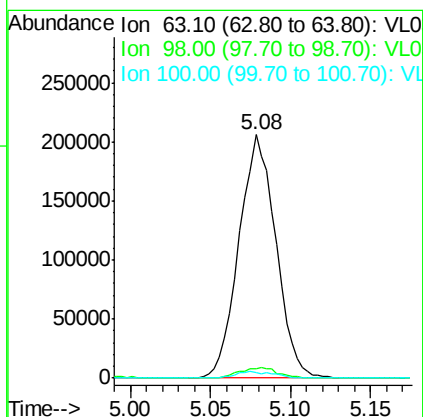
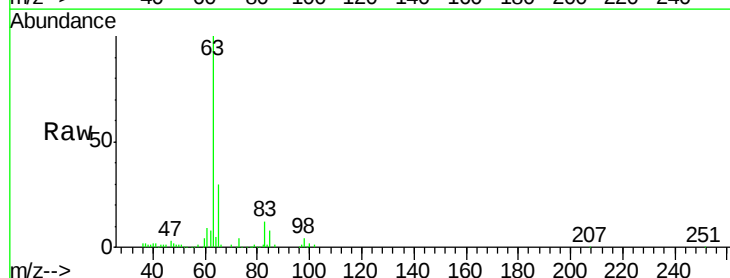
RT: 5.08 min Scan# 666

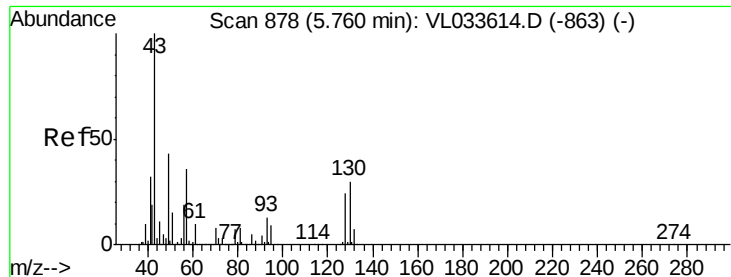
Delta R.T. -0.00 min

Lab File: VL033615.D

Acq: 1 May 2019 12:34

Tgt Ion:	63	Resp:	323247
Ion	Ratio	Lower	Upper
63	100		
98	3.9	2.4	7.2
100	2.5	1.4	4.0





#25

Ethyl Acetate

Concen: 2.141 ppbv

RT: 5.76 min Scan# 878

Delta R.T. 0.00 min

Lab File: VL033615.D

Acq: 1 May 2019 12:34

Instrument :

MSVOA_L

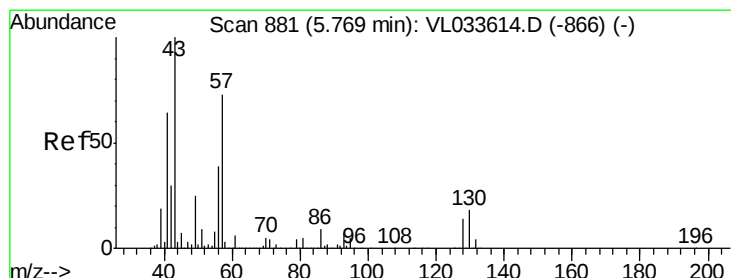
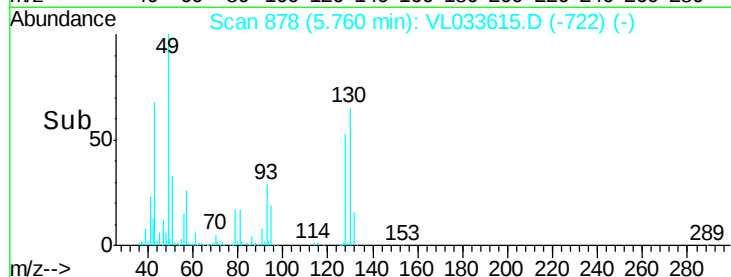
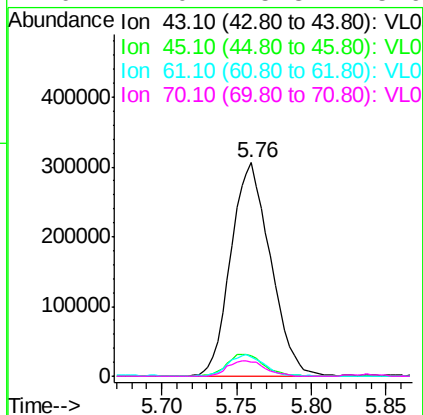
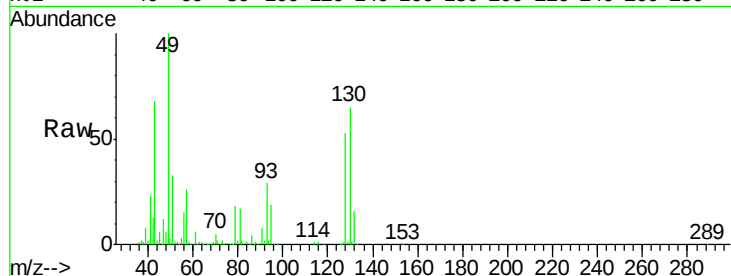
ClientSampleId :

VSTDIC002

Tot Ion:	43	Resp:	565444
Ion	Ratio	Lower	Upper
43	100		
45	9.7	8.1	12.1
61	9.5	7.5	11.3
70	7.0	5.8	8.6

Manual Integrations
APPROVED

MMDadoda
5/2/2019 4:03:49 PM



#26

Hexane

Concen: 2.143 ppbv

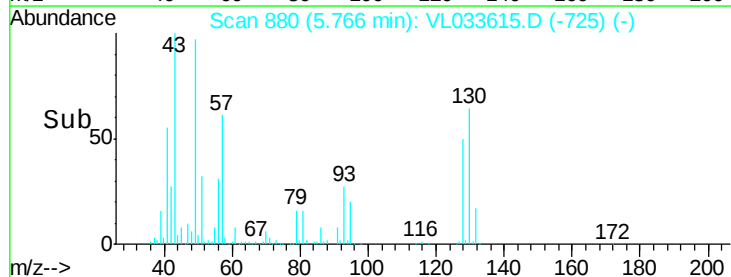
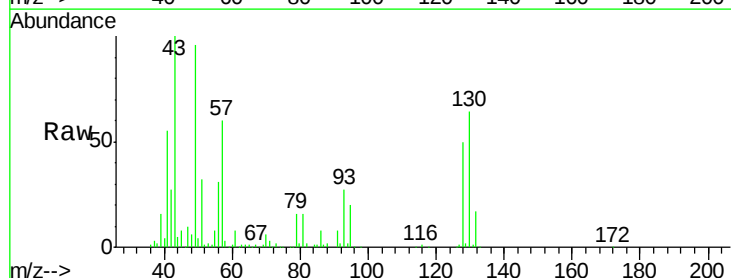
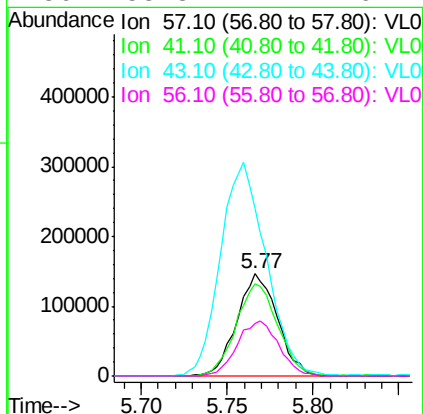
RT: 5.77 min Scan# 880

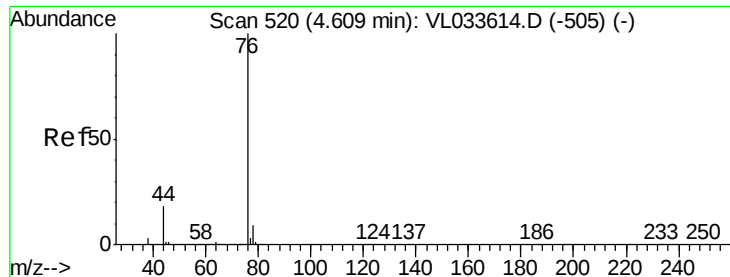
Delta R.T. -0.00 min

Lab File: VL033615.D

Acq: 1 May 2019 12:34

Tgt Ion:	57	Resp:	238326
Ion	Ratio	Lower	Upper
57	100		
41	94.9	70.6	106.0
43	238.3	186.0	279.0
56	55.3	42.7	64.1





#27

Carbon Disulfide

Concen: 1.889 ppbv

RT: 4.61 min Scan# 521

Delta R.T. 0.00 min

Lab File: VL033615.D

Acq: 1 May 2019 12:34

Instrument :

MSVOA_L

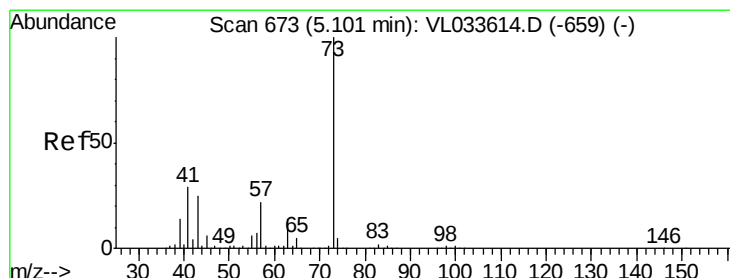
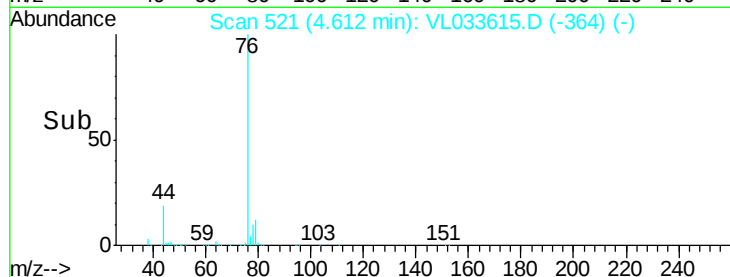
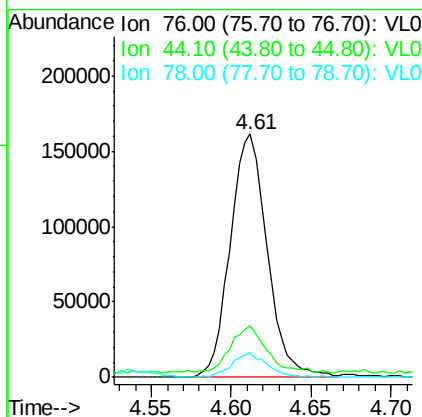
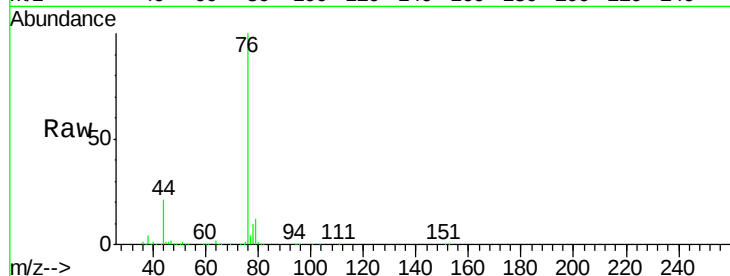
ClientSampleId :

VSTDIC002

Tot Ion:	76	Resp:	254444
Ion	Ratio	Lower	Upper
76	100		
44	21.5	14.3	21.5#
78	10.1	7.5	11.3

Manual Integrations
APPROVED

MMDadoda
5/2/2019 4:03:49 PM



#28

Methyl tert-Butyl Ether

Concen: 2.164 ppbv

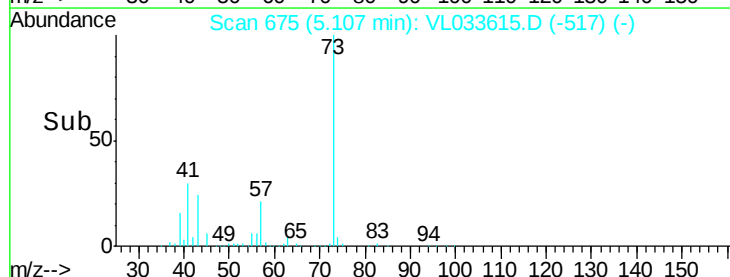
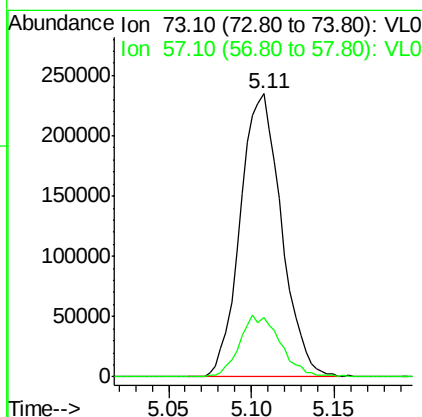
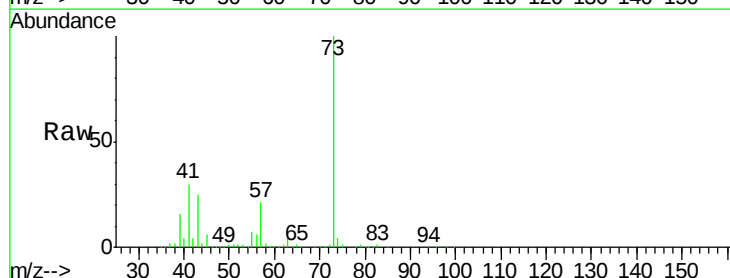
RT: 5.11 min Scan# 675

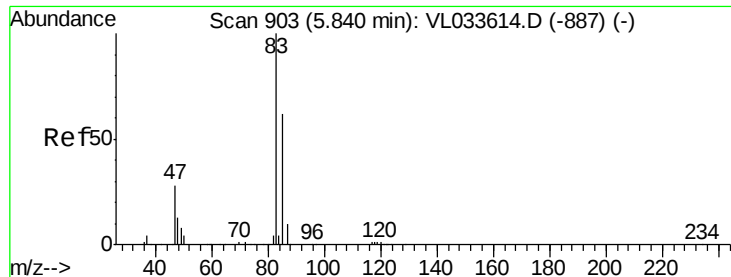
Delta R.T. 0.01 min

Lab File: VL033615.D

Acq: 1 May 2019 12:34

Tgt Ion:	73	Resp:	405712
Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.8	26.8





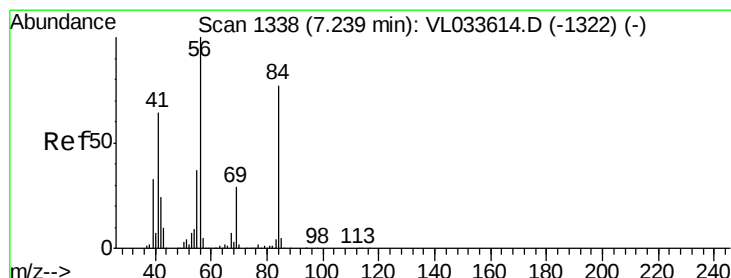
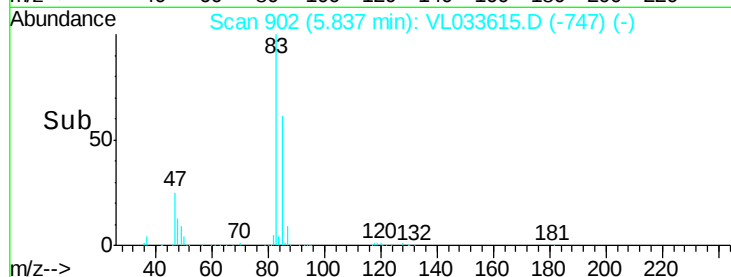
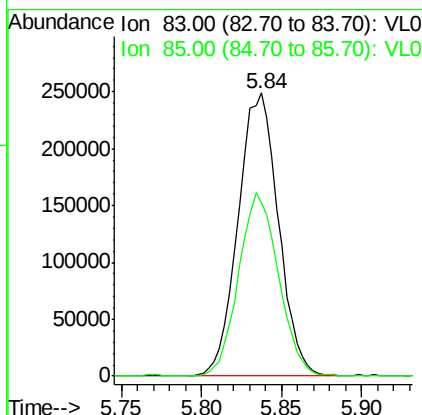
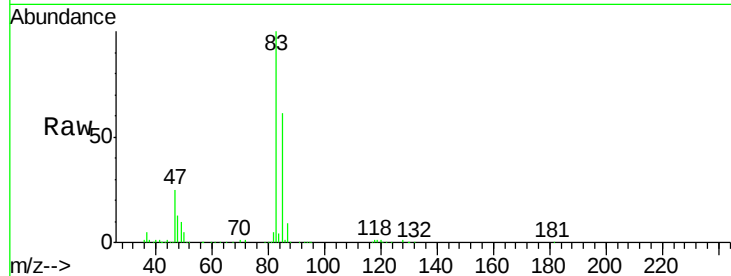
#29
Chloroform
Concen: 2.093 ppbv
RT: 5.84 min Scan# 902
Delta R.T. -0.00 min
Lab File: VL033615.D
Acq: 1 May 2019 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	83	Resp	426531
Ion Ratio	Lower	Upper	
83	100		
85	61.1	49.9	74.9

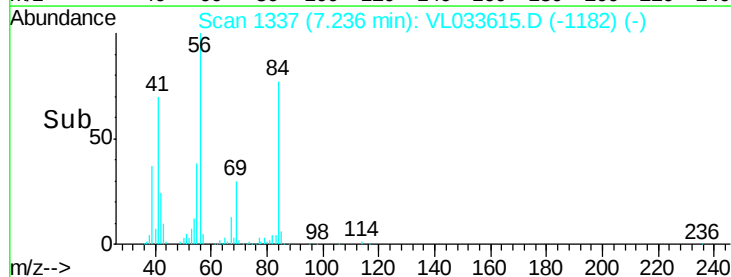
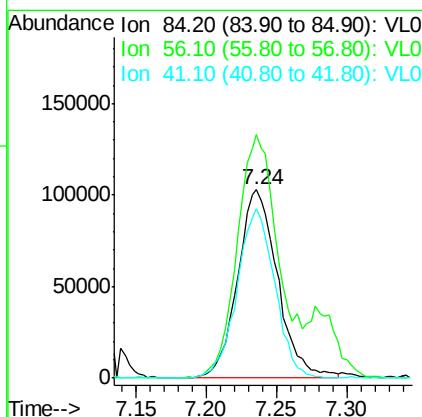
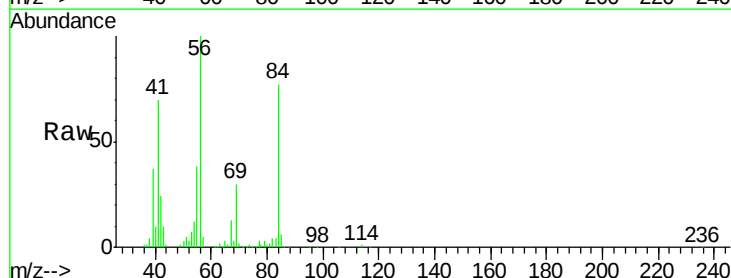
Manual Integrations
APPROVED

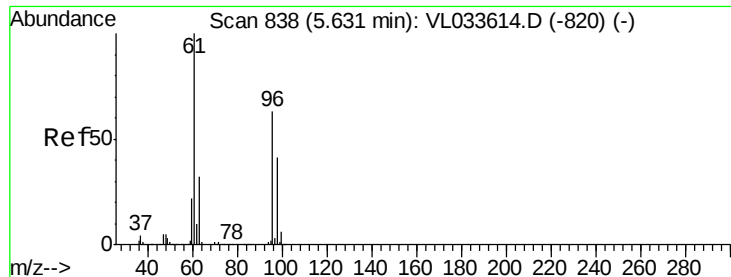
MMDadoda
5/2/2019 4:03:49 PM



#30
Cyclohexane
Concen: 2.122 ppbv
RT: 7.24 min Scan# 1337
Delta R.T. -0.00 min
Lab File: VL033615.D
Acq: 1 May 2019 12:34

Tgt Ion	84	Resp	204593
Ion Ratio	Lower	Upper	
84	100		
56	159.3	108.4	162.6
41	85.3	67.0	100.4





#31

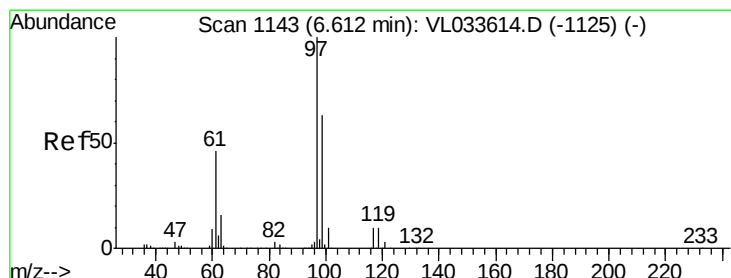
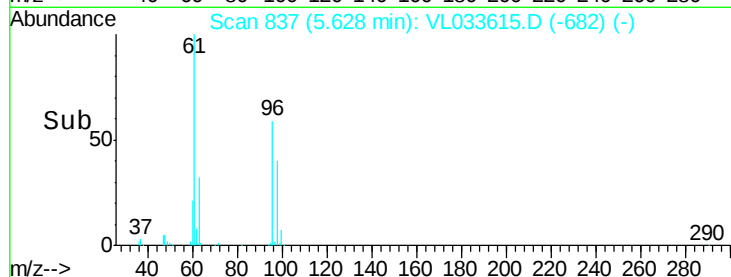
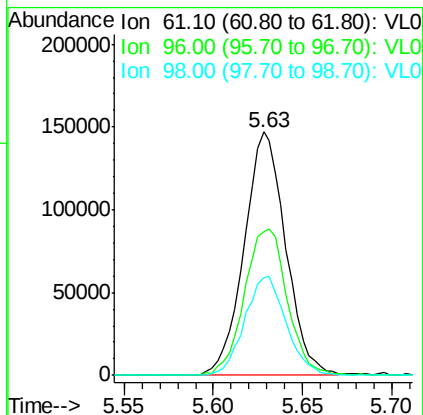
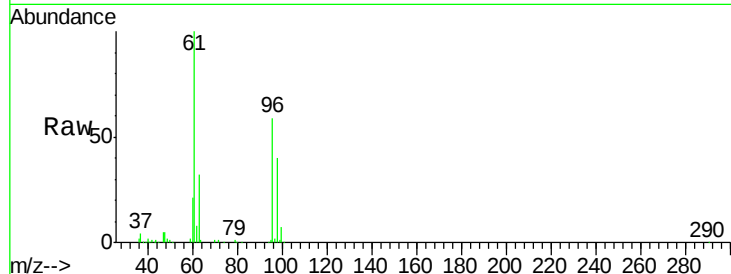
cis-1,2-Dichloroethene
Concen: 2.126 ppbv
RT: 5.63 min Scan# 837
Delta R.T. -0.00 min
Lab File: VL033615.D
Acq: 1 May 2019 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
61	100		
96	59.2	50.6	76.0
98	40.4	32.8	49.2

Manual Integrations
APPROVED

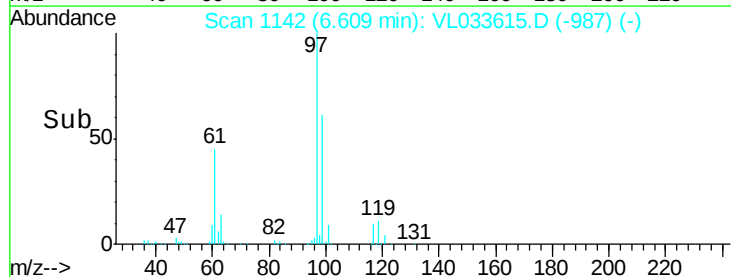
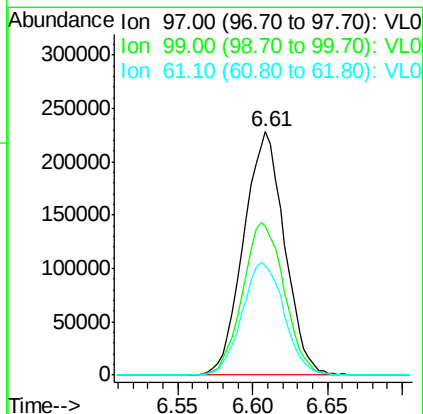
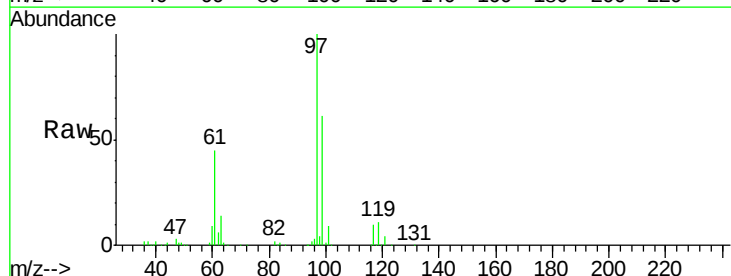
MMDadoda
5/2/2019 4:03:49 PM

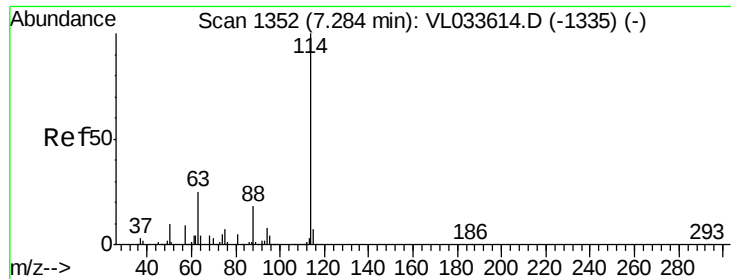


#32

1,1,1-Trichloroethane
Concen: 2.033 ppbv
RT: 6.61 min Scan# 1142
Delta R.T. -0.00 min
Lab File: VL033615.D
Acq: 1 May 2019 12:34

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.9	77.9
61	47.5	38.2	57.2





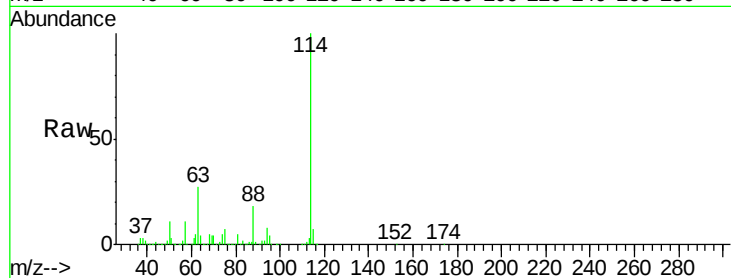
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1351
 Delta R.T. -0.00 min
 Lab File: VL033615.D
 Acq: 1 May 2019 12:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.6	21.1	31.7
88	18.1	14.2	21.4

Manual Integrations
 APPROVED

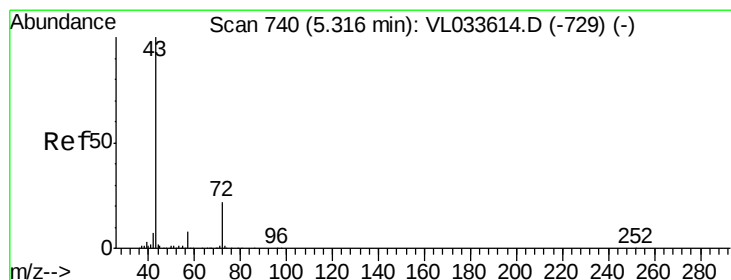
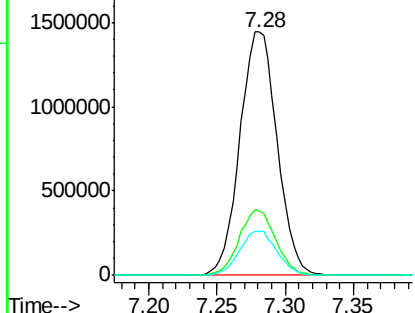
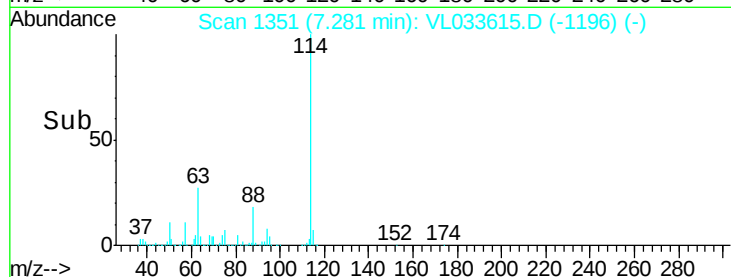
MMDadoda
 5/2/2019 4:03:49 PM



Abundance Ion 114.10 (113.80 to 114.80): VL033615.D (-1196) (-)

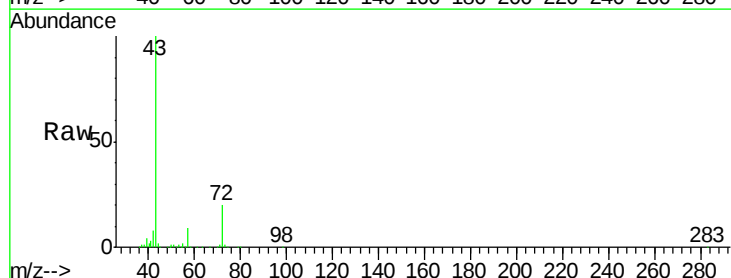
Ion 63.10 (62.80 to 63.80): VL033615.D (-1196) (-)

Ion 88.10 (87.80 to 88.80): VL033615.D (-1196) (-)



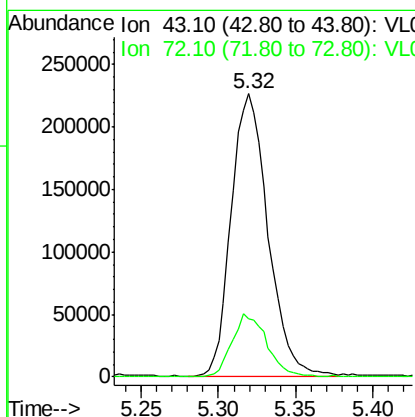
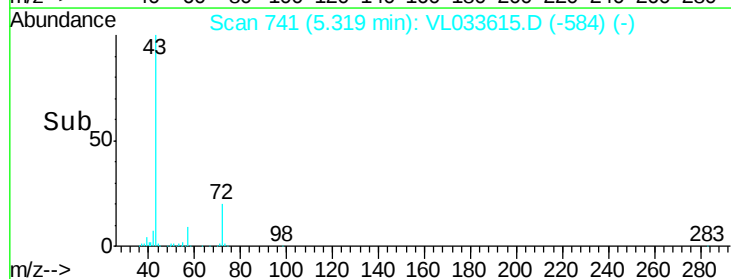
#34
 2-Butanone
 Concen: 2.228 ppbv
 RT: 5.32 min Scan# 741
 Delta R.T. 0.00 min
 Lab File: VL033615.D
 Acq: 1 May 2019 12:34

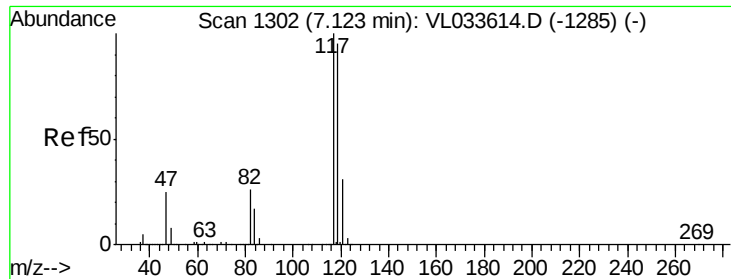
Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.3	17.8	26.8



Abundance Ion 43.10 (42.80 to 43.80): VL033615.D (-584) (-)

Ion 72.10 (71.80 to 72.80): VL033615.D (-584) (-)





#35

Carbon Tetrachloride

Concen: 2.075 ppbv

RT: 7.12 min Scan# 1302

Delta R.T. 0.00 min

Lab File: VL033615.D

Acq: 1 May 2019 12:34

Instrument :

MSVOA_L

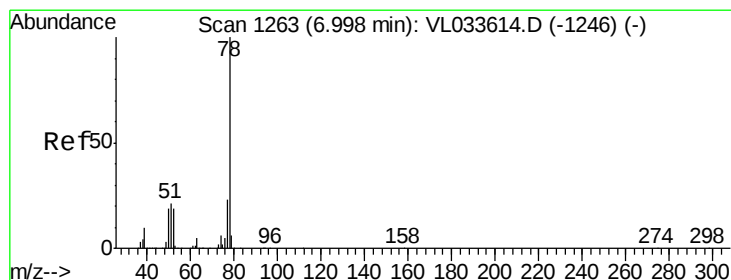
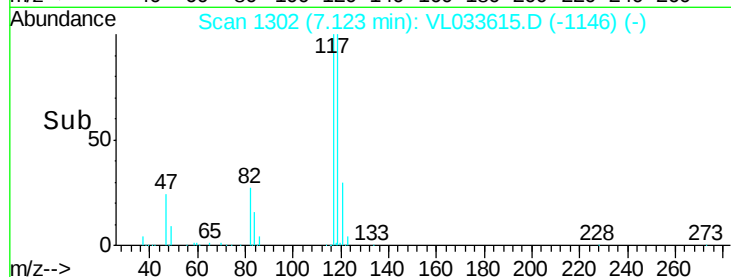
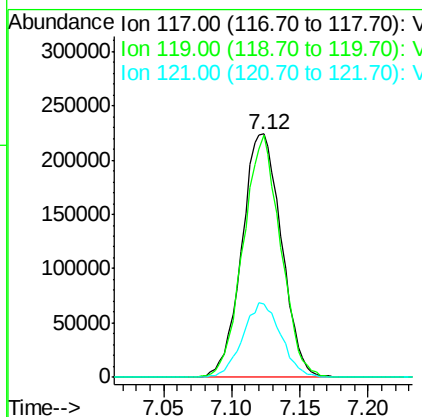
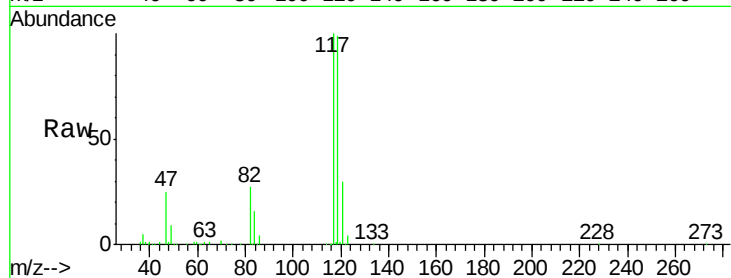
ClientSampleId :

VSTDIC002

Tot Ion:	117	Resp:	449906
Ion Ratio	Lower	Upper	
117	100		
119	99.5	76.2	114.4
121	30.2	24.9	37.3

Manual Integrations
APPROVED

MMDadoda
5/2/2019 4:03:49 PM



#36

Benzene

Concen: 2.165 ppbv

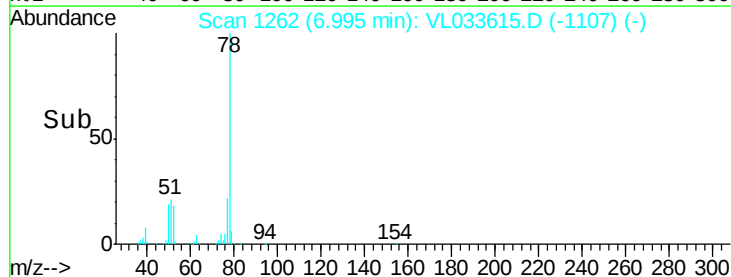
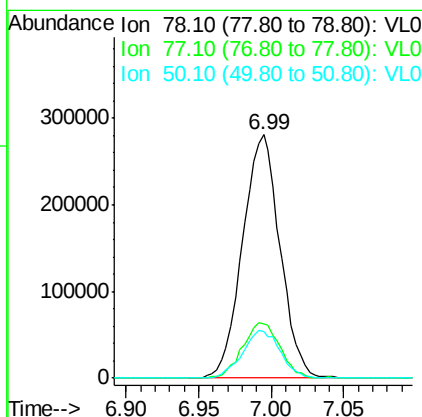
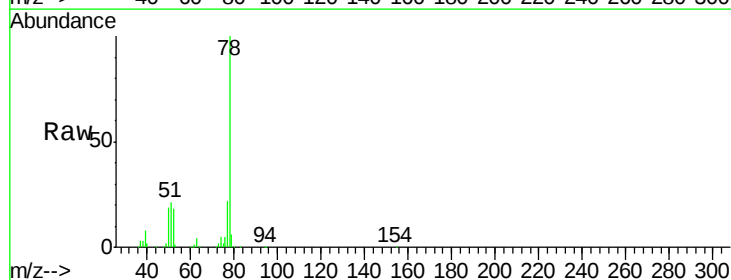
RT: 6.99 min Scan# 1262

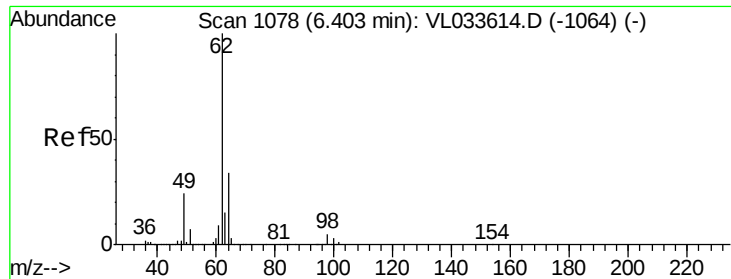
Delta R.T. -0.00 min

Lab File: VL033615.D

Acq: 1 May 2019 12:34

Tgt Ion:	78	Resp:	504987
Ion Ratio	Lower	Upper	
78	100		
77	22.1	18.1	27.1
50	19.3	15.1	22.7





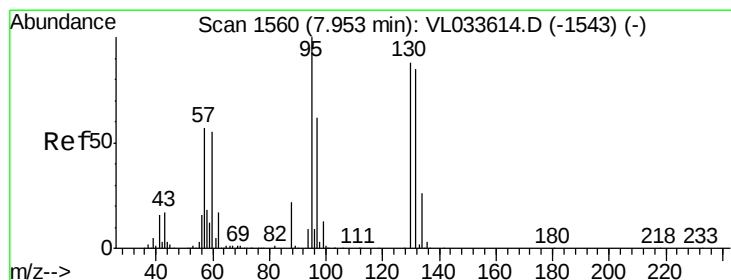
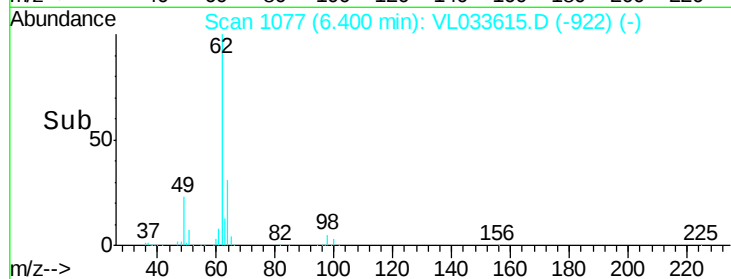
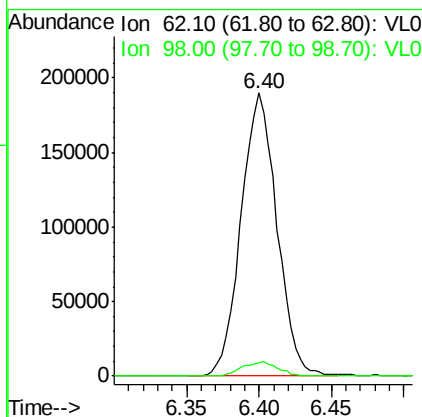
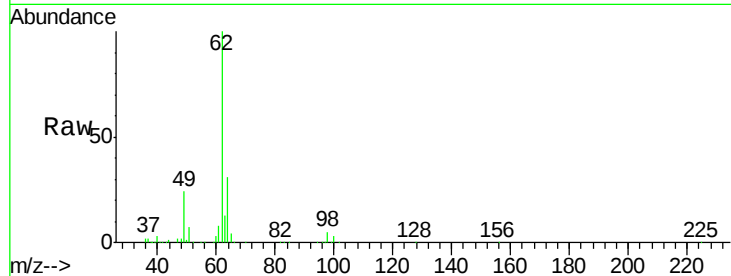
#37
 1,2-Dichloroethane
 Concen: 2.107 ppbv
 RT: 6.40 min Scan# 1077
 Delta R.T. -0.00 min
 Lab File: VL033615.D
 Acq: 1 May 2019 12:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
62	100	326575		
98	5.2		4.4	6.6

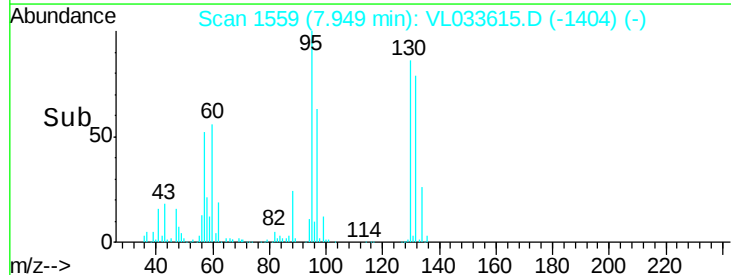
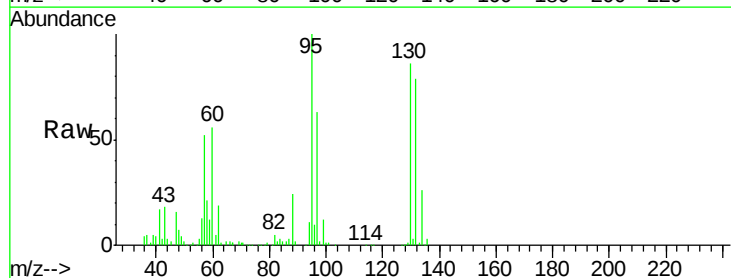
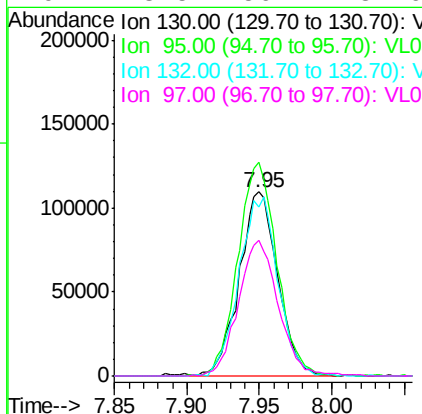
Manual Integrations
 APPROVED

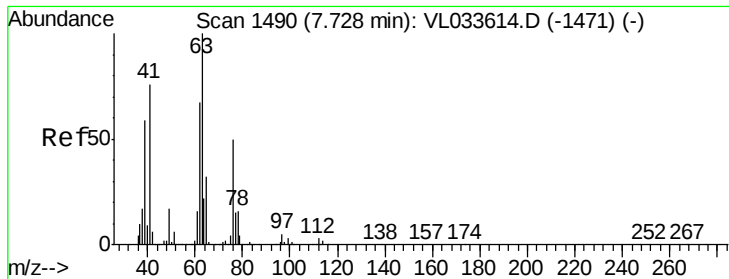
MMDadoda
 5/2/2019 4:03:49 PM



#38
 Trichloroethene
 Concen: 2.172 ppbv
 RT: 7.95 min Scan# 1559
 Delta R.T. -0.00 min
 Lab File: VL033615.D
 Acq: 1 May 2019 12:34

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	202896		
95	115.9		91.2	136.8
132	92.0		77.8	116.8
97	73.5		56.4	84.6





#39

1,2-Dichloropropane

Concen: 2.139 ppbv

RT: 7.72 min Scan# 1489

Delta R.T. -0.00 min

Lab File: VL033615.D

Acq: 1 May 2019 12:34

Instrument :

MSVOA_L

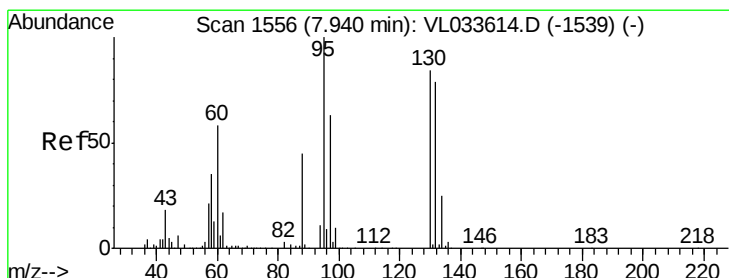
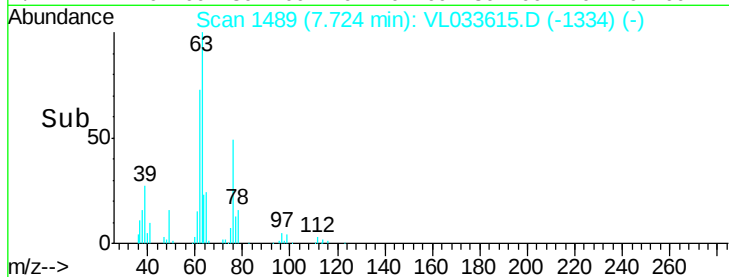
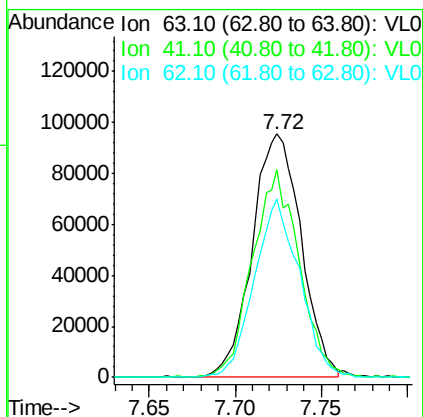
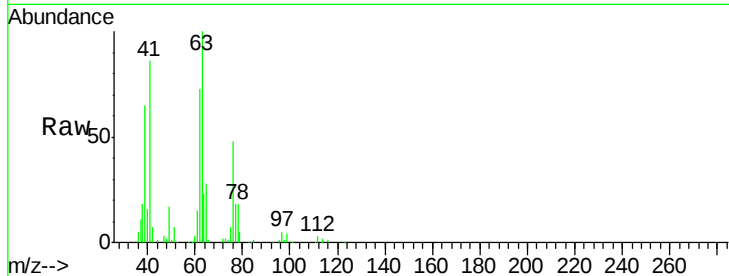
ClientSampleId :

VSTDIC002

Tot Ion:	63	Resp:	188097
Ion Ratio	Lower	Upper	
63	100		
41	85.6	60.9	91.3
62	73.2	53.3	79.9

Manual Integrations
APPROVED

MMDadoda
5/2/2019 4:03:49 PM



#40

1,4-Dioxane

Concen: 2.052 ppbv

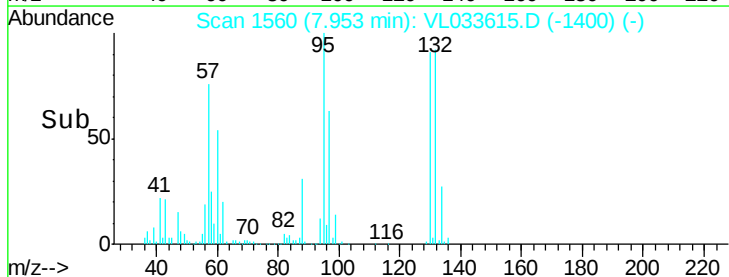
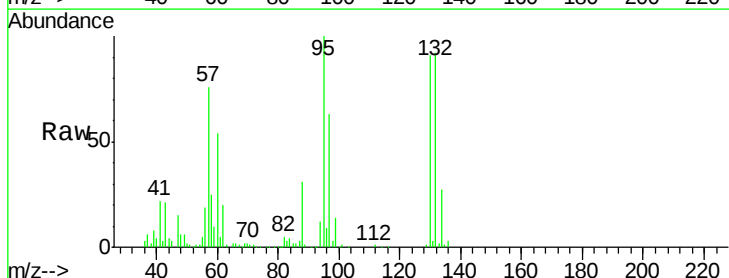
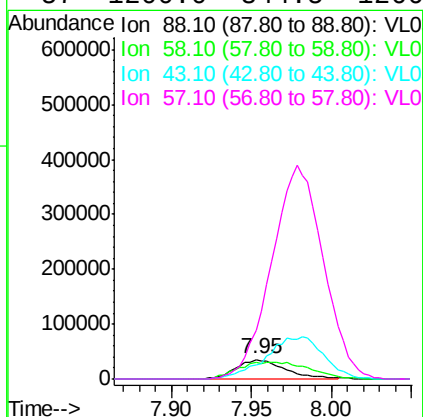
RT: 7.95 min Scan# 1560

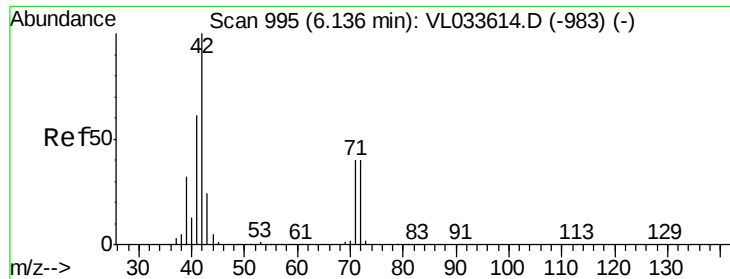
Delta R.T. 0.01 min

Lab File: VL033615.D

Acq: 1 May 2019 12:34

Tgt Ion:	88	Resp:	73304
Ion Ratio	Lower	Upper	
88	100		
58	130.6	98.4	147.6
43	264.1	190.7	286.1
57	1200.0	844.5	1266.7





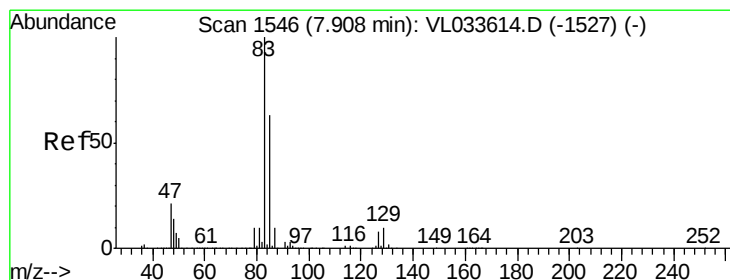
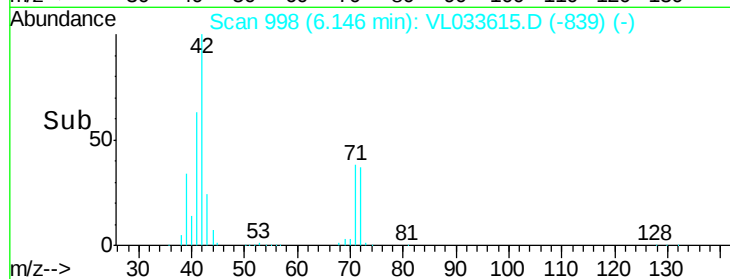
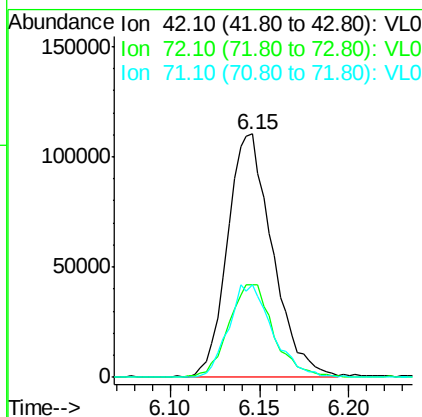
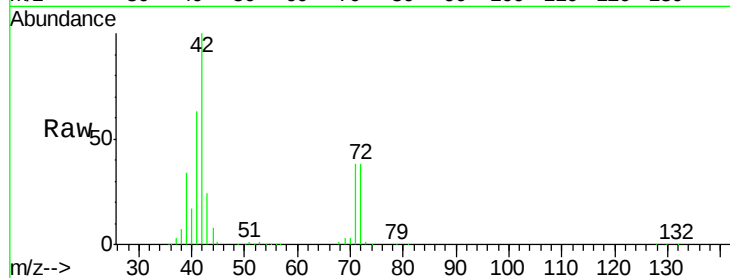
#41
Tetrahydrofuran
Concen: 2.156 ppbv
RT: 6.15 min Scan# 998
Delta R.T. 0.01 min
Lab File: VL033615.D
Acq: 1 May 2019 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.5	31.8	47.6
71	37.3	31.0	46.4

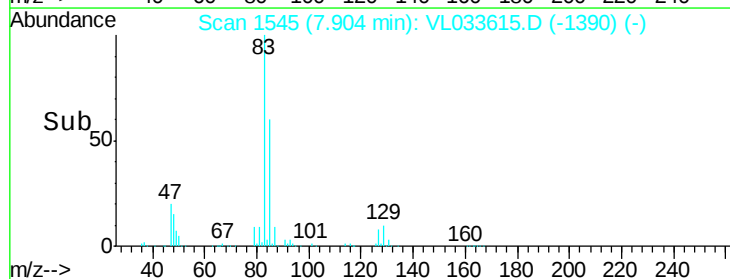
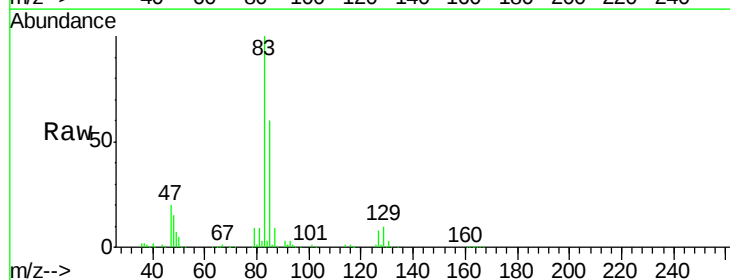
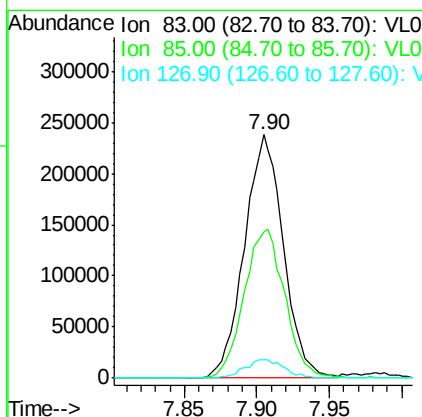
Manual Integrations
APPROVED

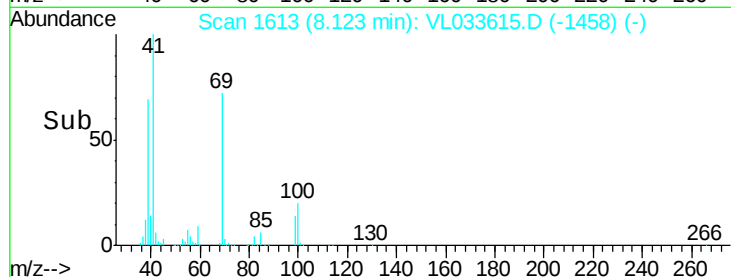
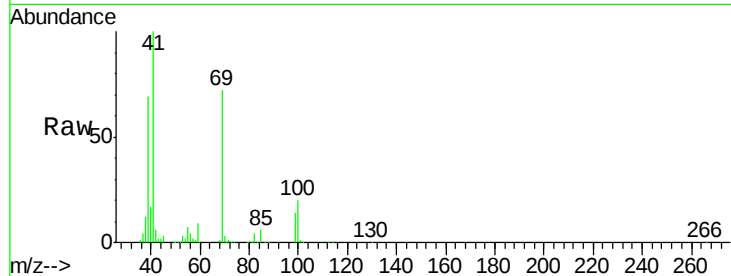
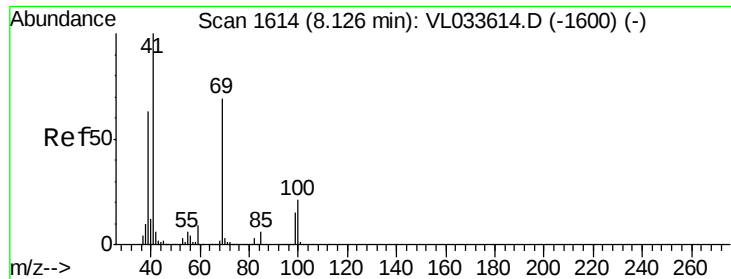
MMDadoda
5/2/2019 4:03:49 PM



#42
Bromodichloromethane
Concen: 2.122 ppbv
RT: 7.90 min Scan# 1545
Delta R.T. -0.00 min
Lab File: VL033615.D
Acq: 1 May 2019 12:34

Tgt Ion	Ratio	Lower	Upper
83	100		
85	60.0	50.2	75.4
127	8.2	6.5	9.7





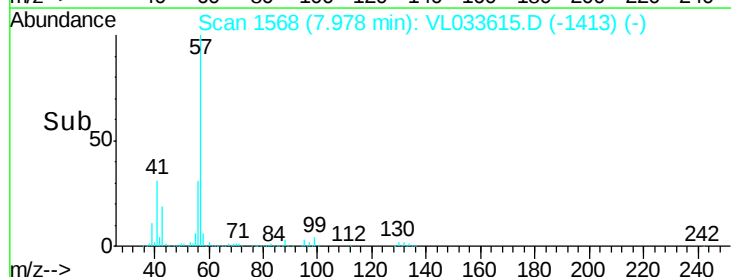
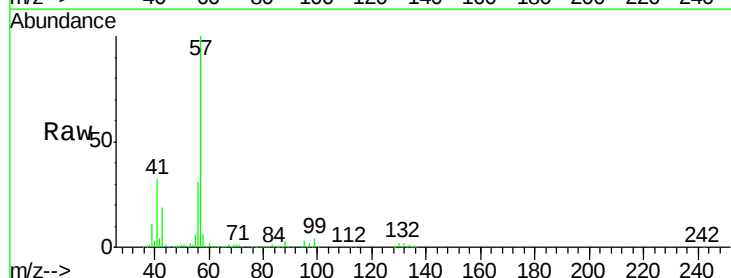
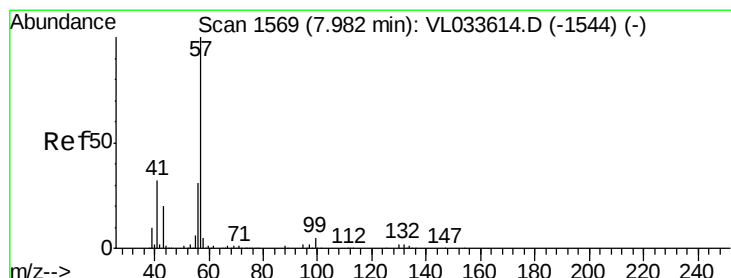
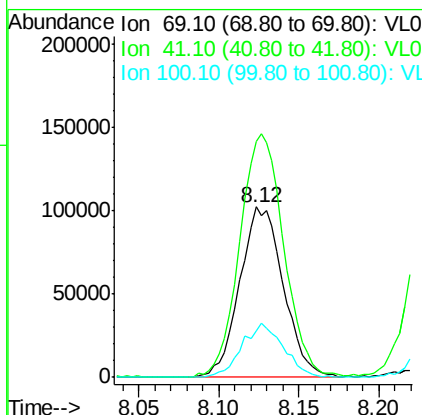
#43
Methvl Methacrilate
Concen: 2.164 ppbv
RT: 8.12 min Scan# 1613
Delta R.T. -0.00 min
Lab File: VL033615.D
Acq: 1 May 2019 12:34

Tot Ion	Ion	Ratio	Resp	Lower	Upper
69	100		191143		
41	143.7	115.0	172.4		
100	30.3	24.7	37.1		

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

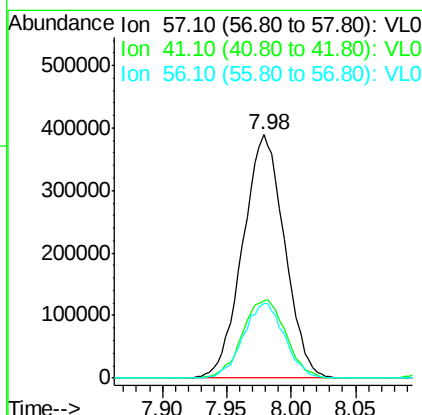
Manual Integrations
APPROVED

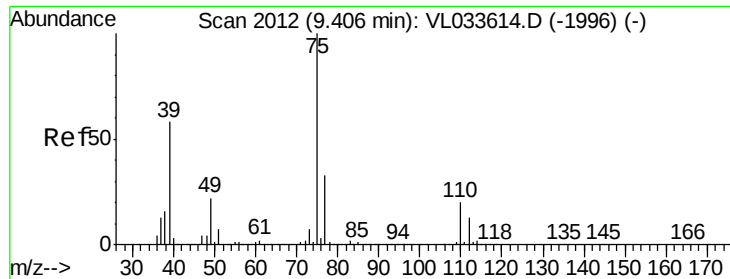
MMDadoda
5/2/2019 4:03:49 PM



#44
2,2,4-Trimethylpentane
Concen: 2.157 ppbv
RT: 7.98 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VL033615.D
Acq: 1 May 2019 12:34

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100		876824		
41	33.7	25.4	38.2		
56	30.6	24.6	37.0		





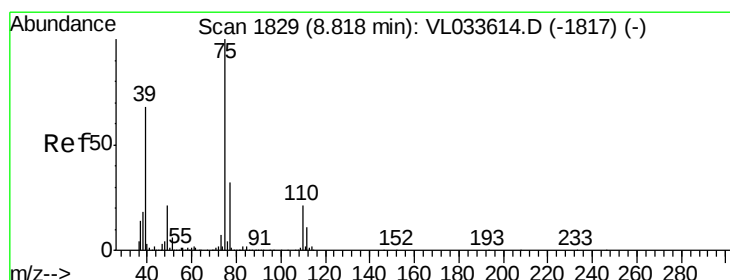
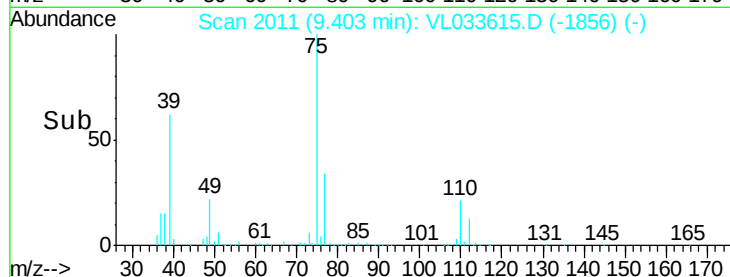
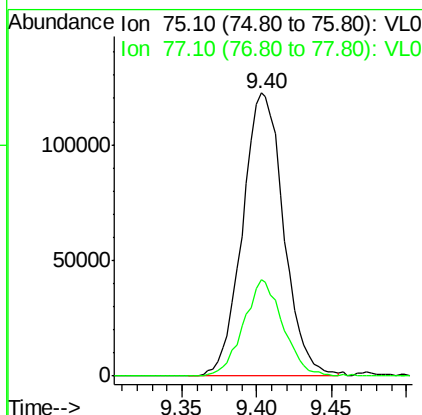
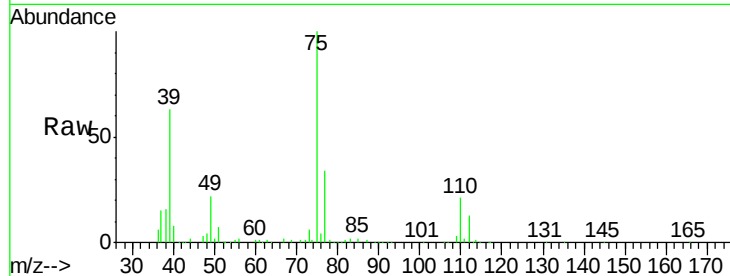
#45
t-1,3-Dichloropropene
Concen: 1.996 ppbv
RT: 9.40 min Scan# 2011
Delta R.T. -0.00 min
Lab File: VL033615.D
Acq: 1 May 2019 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 75 Resp: 234114
Ion Ratio Lower Upper
75 100
77 34.1 26.0 39.0

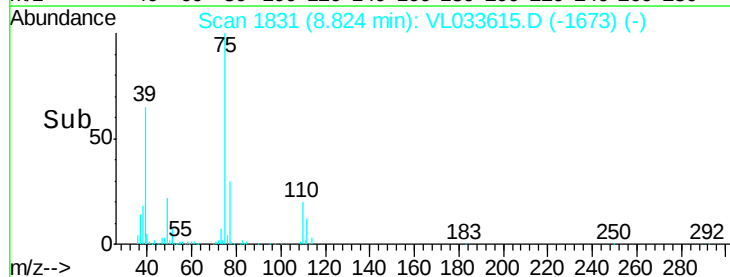
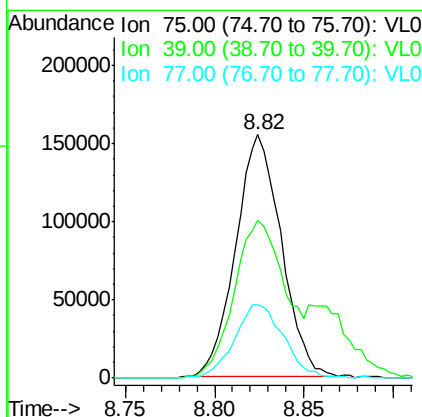
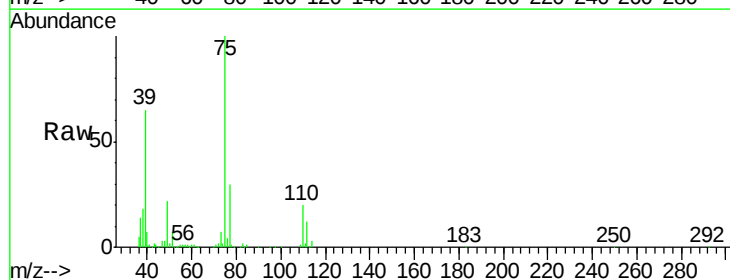
Manual Integrations
APPROVED

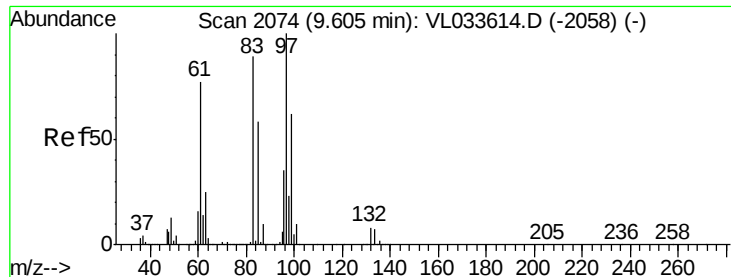
MMDadoda
5/2/2019 4:03:49 PM



#46
cis-1,3-Dichloropropene
Concen: 2.077 ppbv
RT: 8.82 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VL033615.D
Acq: 1 May 2019 12:34

Tgt Ion: 75 Resp: 274771
Ion Ratio Lower Upper
75 100
39 64.3 54.6 82.0
77 30.0 25.7 38.5





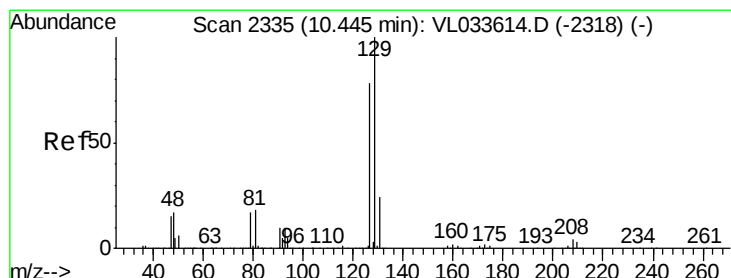
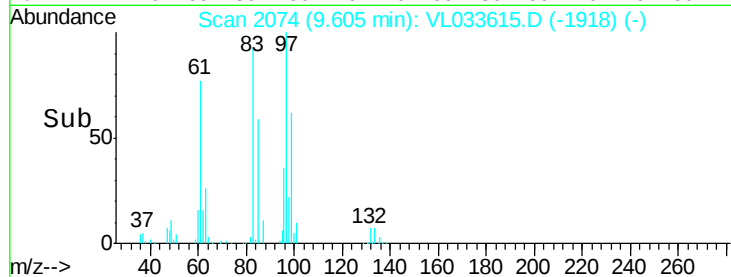
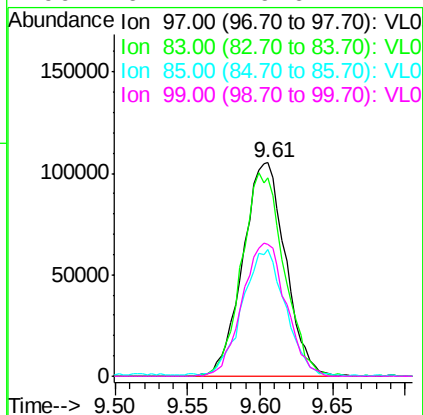
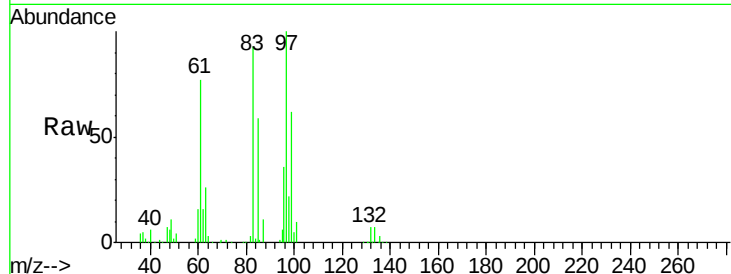
#47
 1,1,2-Trichloroethane
 Concen: 1.886 ppbv
 RT: 9.61 min Scan# 2074
 Delta R.T. 0.00 min
 Lab File: VL033615.D
 Acq: 1 May 2019 12:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	97	Resp	216369
Ion	Ratio	Lower	Upper
97	100		
83	92.9	71.4	107.0
85	58.9	46.0	69.0
99	61.7	49.6	74.4

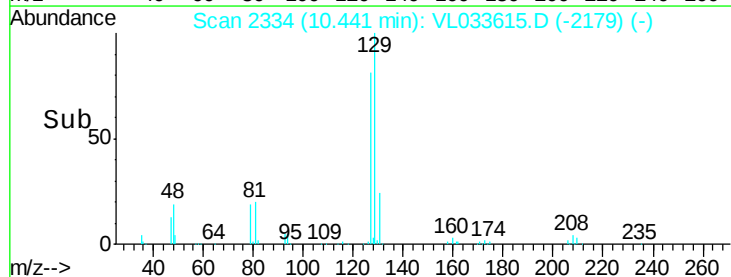
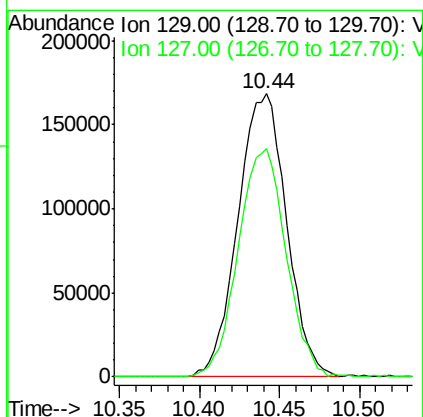
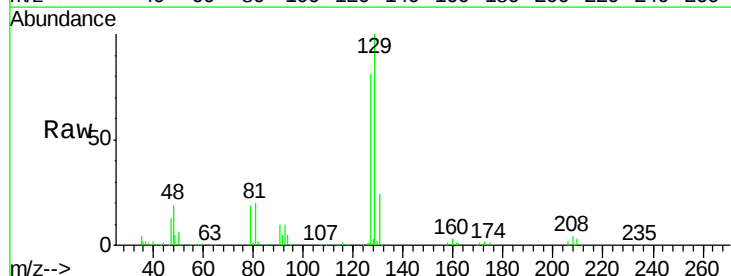
Manual Integrations
 APPROVED

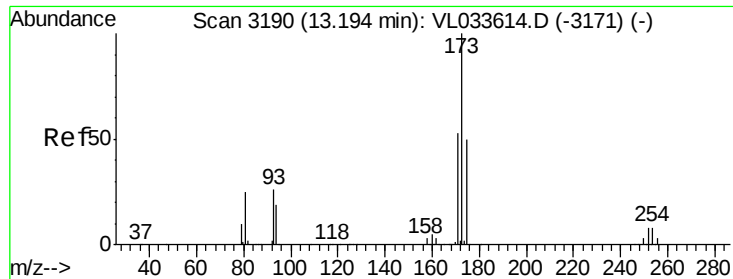
MMDadoda
 5/2/2019 4:03:49 PM



#48
 Dibromochloromethane
 Concen: 1.801 ppbv
 RT: 10.44 min Scan# 2334
 Delta R.T. -0.00 min
 Lab File: VL033615.D
 Acq: 1 May 2019 12:34

Tgt Ion	129	Resp	349625
Ion	Ratio	Lower	Upper
129	100		
127	79.5	39.2	117.6





#49

Bromoform

Concen: 2.101 ppbv

RT: 13.19 min Scan# 3189

Delta R.T. -0.00 min

Lab File: VL033615.D

Acq: 1 May 2019 12:34

Instrument :

MSVOA_L

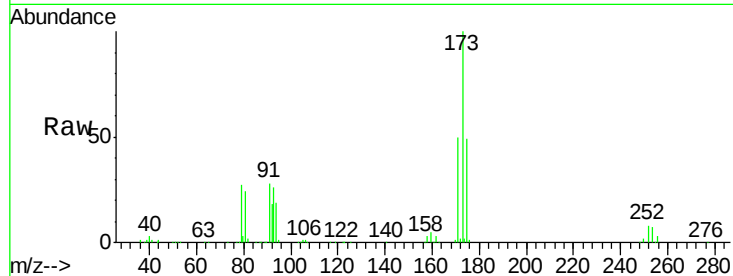
ClientSampleId :

VSTDIC002

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.0	39.0	58.6
171	51.4	41.6	62.4

Manual Integrations
APPROVED

MMDadoda
5/2/2019 4:03:49 PM

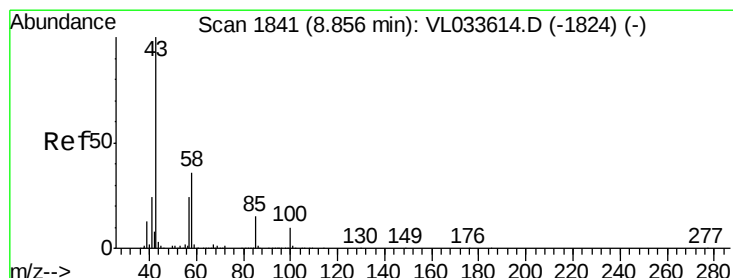
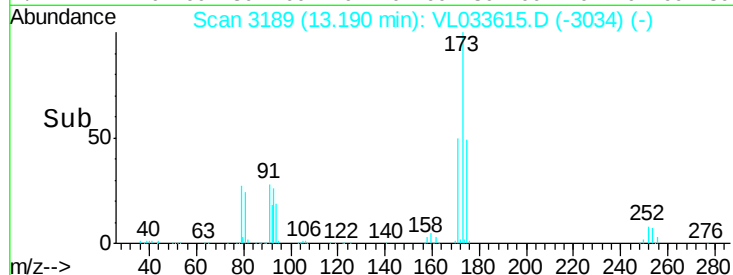
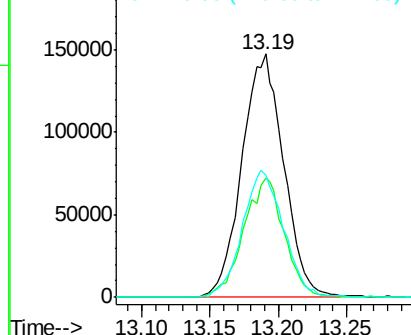


Abundance

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: 2.209 ppbv

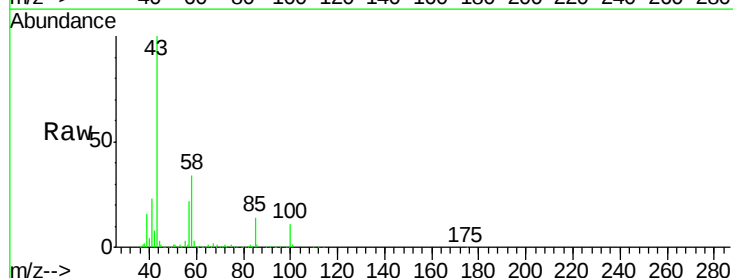
RT: 8.86 min Scan# 1843

Delta R.T. 0.01 min

Lab File: VL033615.D

Acq: 1 May 2019 12:34

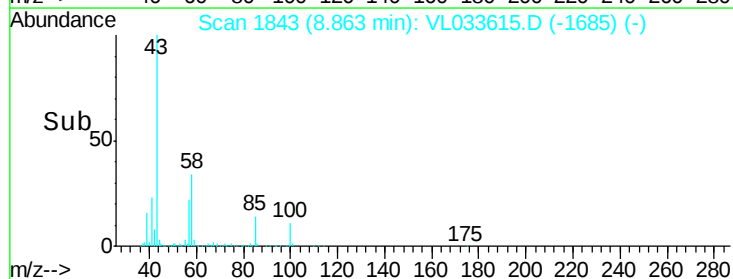
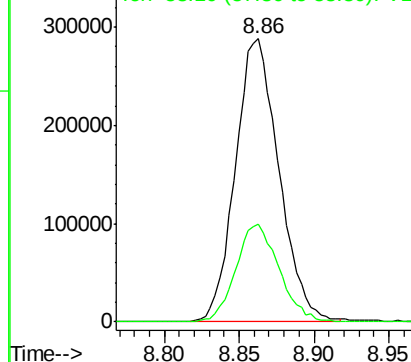
Tgt Ion	Ratio	Lower	Upper
43	100		
58	34.6	28.6	42.8

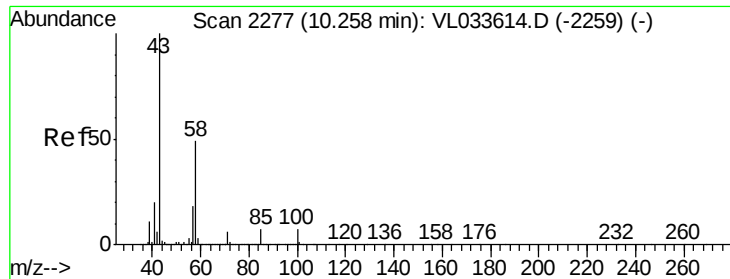


Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 1.931 ppbv

RT: 10.26 min Scan# 2278

Delta R.T. 0.00 min

Lab File: VL033615.D

Acq: 1 May 2019 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 43 Resp: 446505

Ion Ratio Lower Upper

43 100

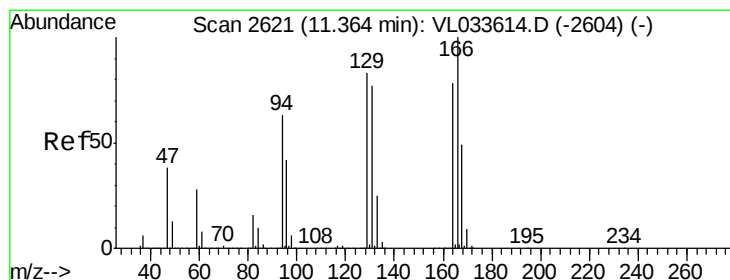
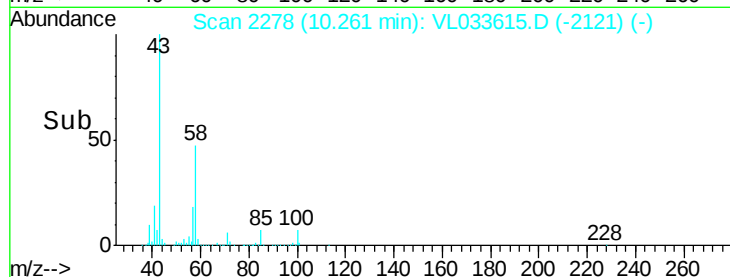
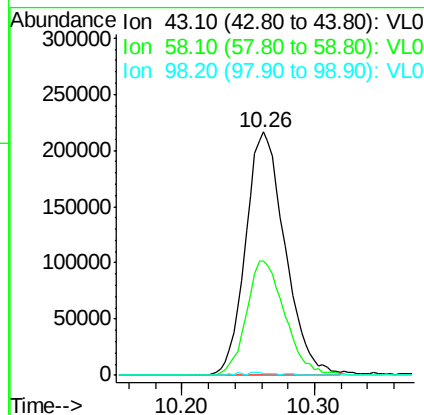
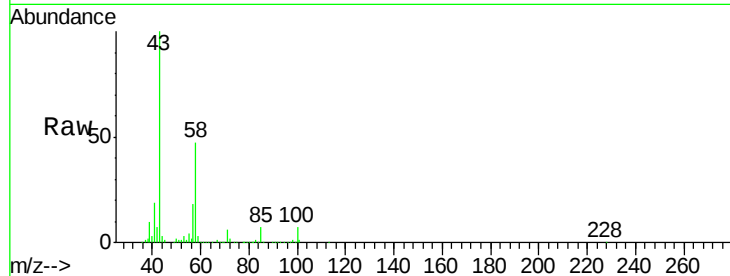
58 46.2 38.5 57.7

98 1.1 0.3 0.5#

Manual Integrations
APPROVED

MMDadoda

5/2/2019 4:03:49 PM



#52

Tetrachloroethene

Concen: 2.115 ppbv

RT: 11.36 min Scan# 2621

Delta R.T. 0.00 min

Lab File: VL033615.D

Acq: 1 May 2019 12:34

Tgt Ion: 164 Resp: 189621

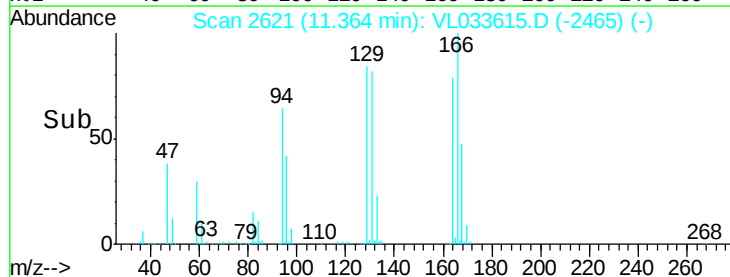
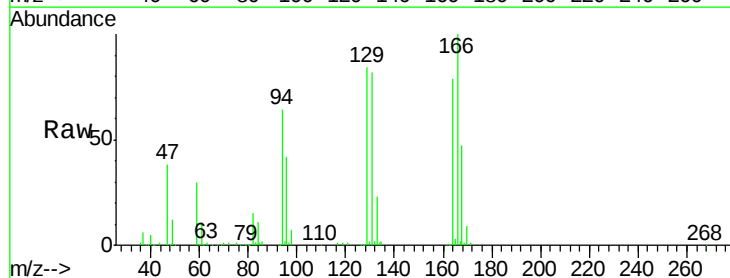
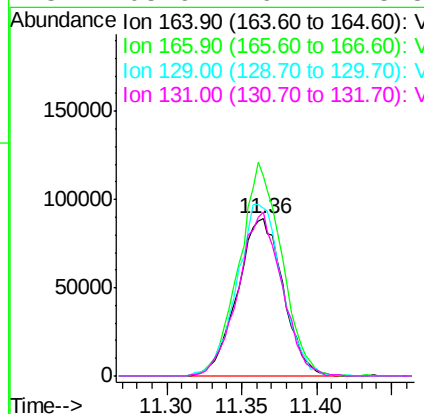
Ion Ratio Lower Upper

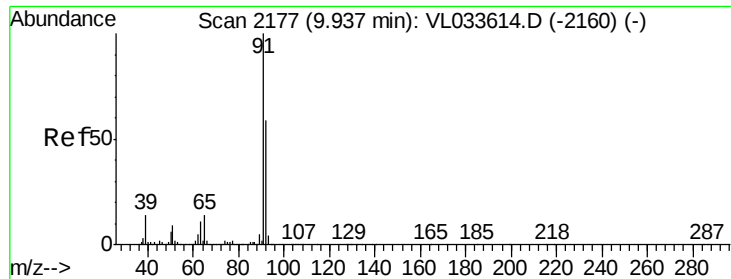
164 100

166 126.9 102.2 153.4

129 106.6 84.4 126.6

131 103.6 79.2 118.8





#53

Toluene

Concen: 1.960 ppbv

RT: 9.93 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VL033615.D

Acq: 1 May 2019 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 576774

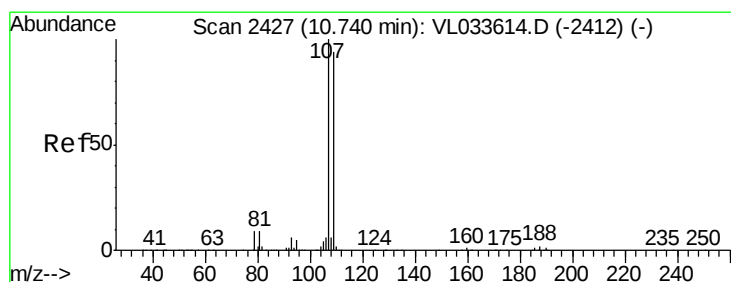
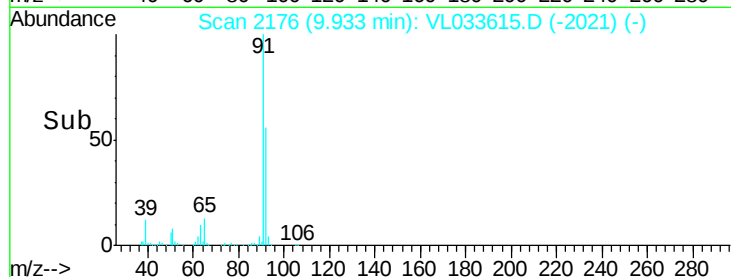
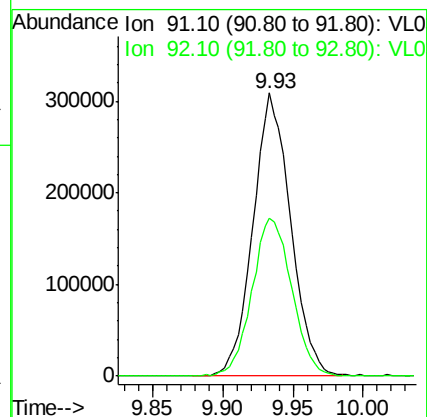
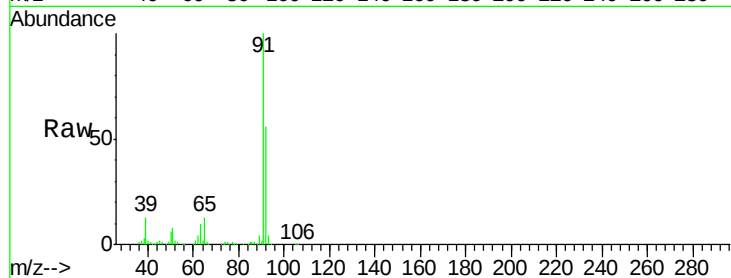
Ion Ratio Lower Upper

91 100

92 58.7 47.8 71.6

Manual Integrations
APPROVED

MMDadoda
5/2/2019 4:03:49 PM



#54

1,2-Dibromoethane

Concen: 2.060 ppbv

RT: 10.74 min Scan# 2428

Delta R.T. 0.00 min

Lab File: VL033615.D

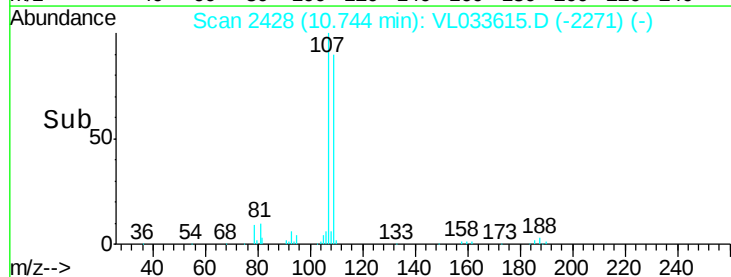
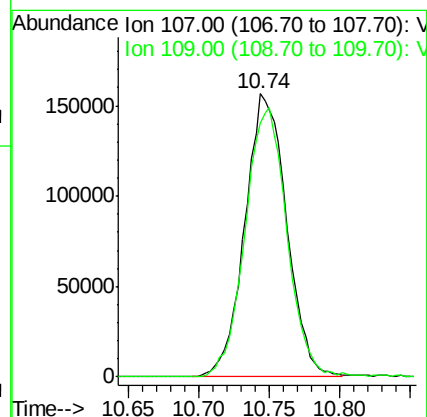
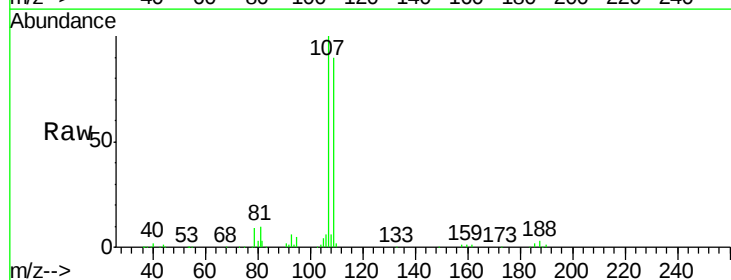
Acq: 1 May 2019 12:34

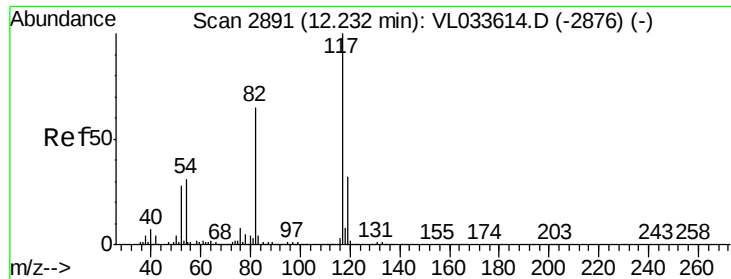
Tgt Ion: 107 Resp: 324900

Ion Ratio Lower Upper

107 100

109 91.8 75.1 112.7





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2890

Delta R.T. -0.00 min

Lab File: VL033615.D

Acq: 1 May 2019 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:117 Resp: 2924255

Ion Ratio Lower Upper

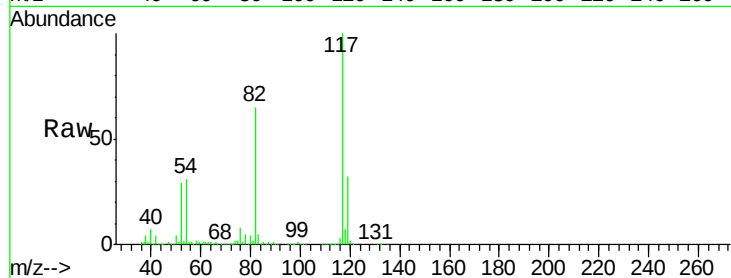
117 100

82 62.8 52.6 78.8

119 35.7 28.3 42.5

Manual Integrations
APPROVED

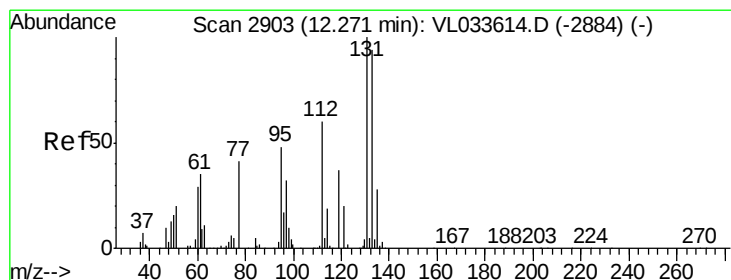
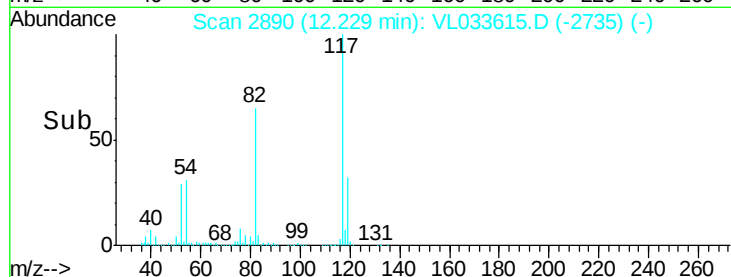
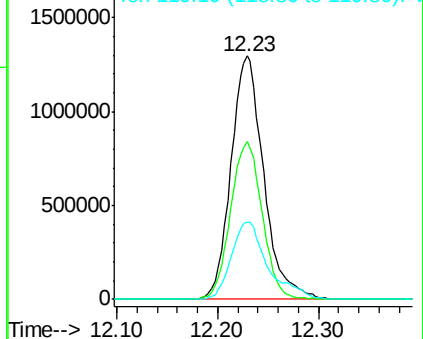
MMDadoda
5/2/2019 4:03:49 PM



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 2.073 ppbv

RT: 12.27 min Scan# 2902

Delta R.T. -0.00 min

Lab File: VL033615.D

Acq: 1 May 2019 12:34

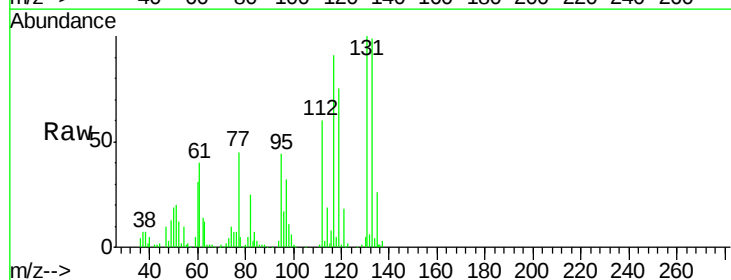
Tgt Ion:131 Resp: 264695

Ion Ratio Lower Upper

131 100

133 96.7 76.4 114.6

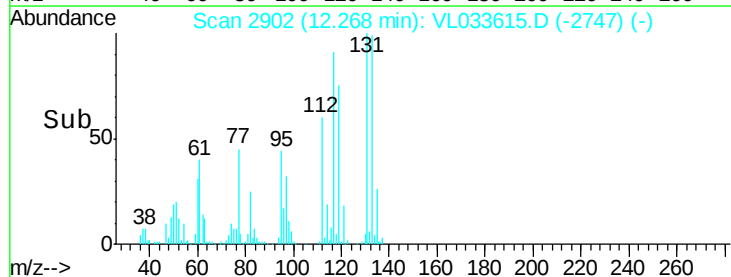
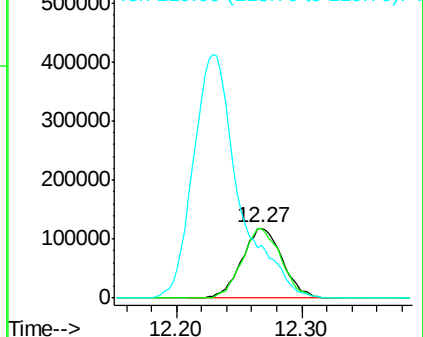
119 394.8 40.9 61.3#

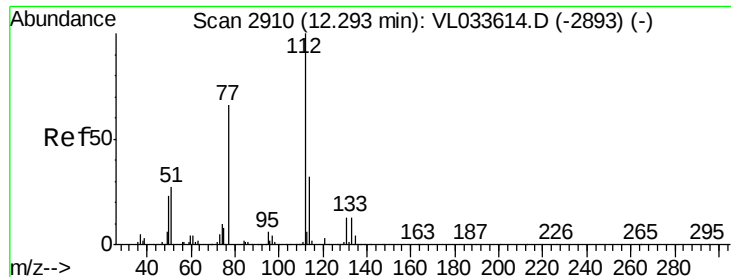


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 2.087 ppbv

RT: 12.29 min Scan# 2909

Delta R.T. -0.00 min

Lab File: VL033615.D

Acq: 1 May 2019 12:34

Instrument :

MSVOA_L

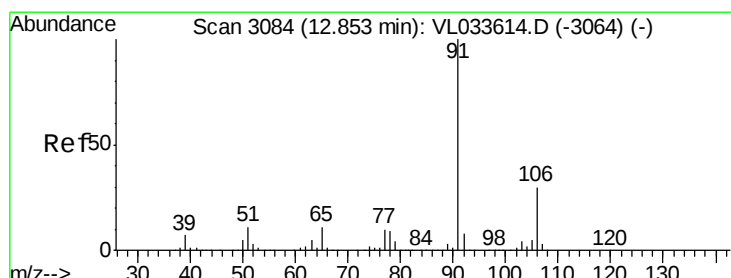
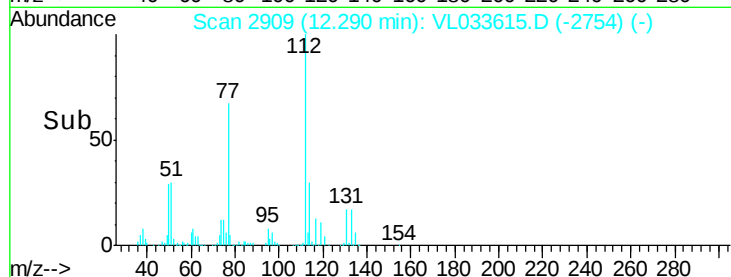
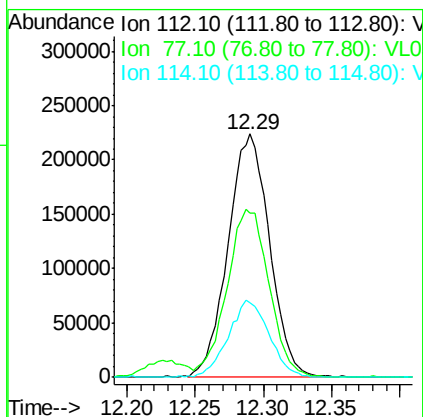
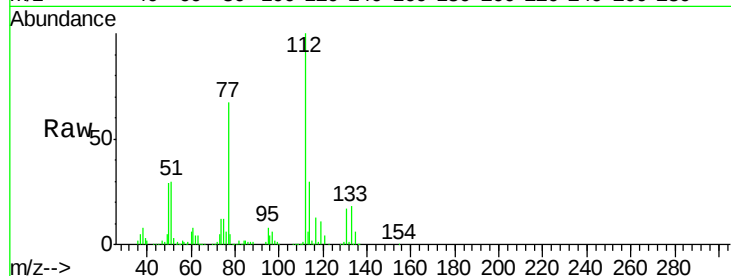
ClientSampleId :

VSTDIC002

Tot Ion:	112	Resp:	474550
Ion Ratio	Lower	Upper	
112	100		
77	66.9	53.6	80.4
114	30.2	29.1	35.5

Manual Integrations
APPROVED

MMDadoda
5/2/2019 4:03:49 PM



#58

Ethyl Benzene

Concen: 2.336 ppbv

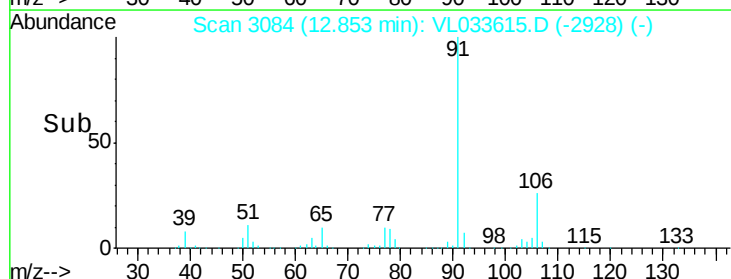
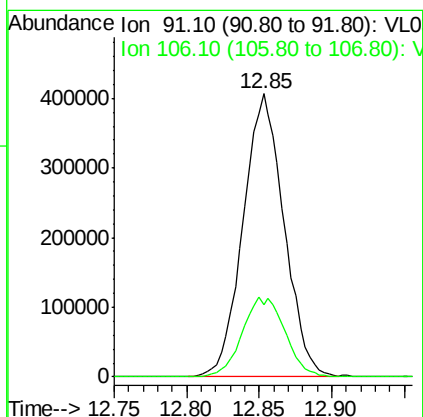
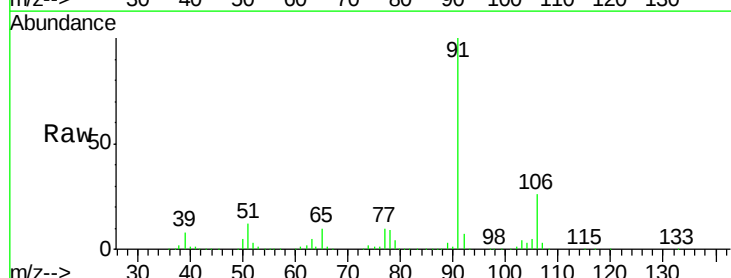
RT: 12.85 min Scan# 3084

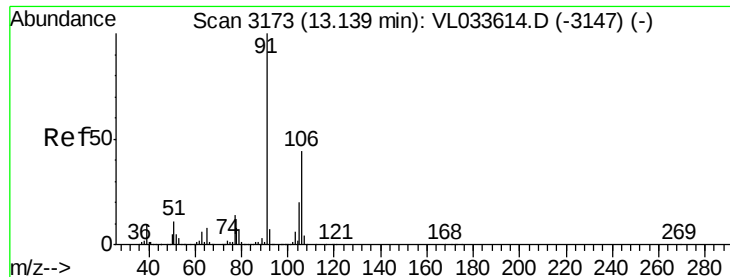
Delta R.T. 0.00 min

Lab File: VL033615.D

Acq: 1 May 2019 12:34

Tgt Ion:	91	Resp:	795113
Ion Ratio	Lower	Upper	
91	100		
106	25.7	23.6	35.4





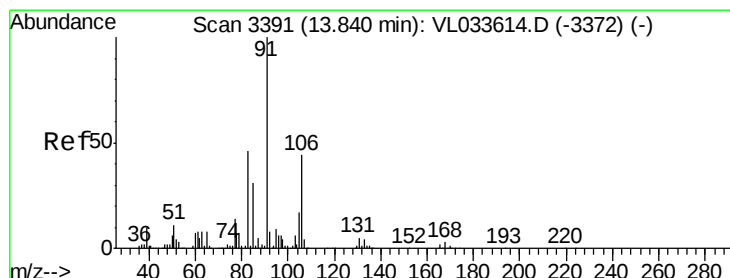
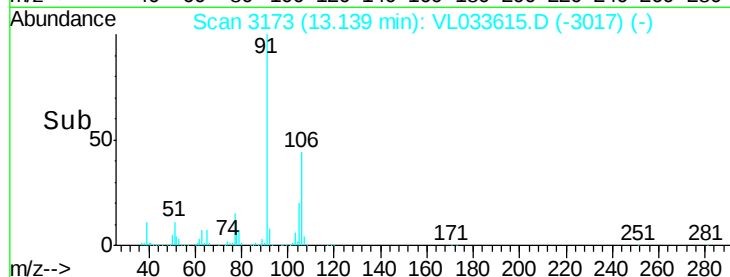
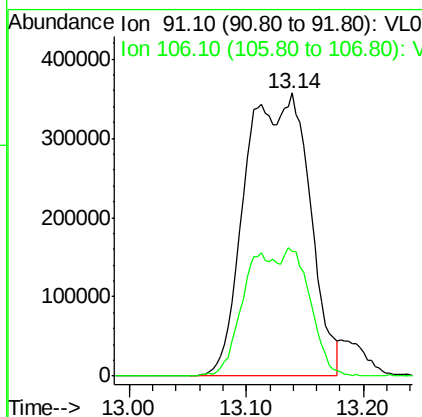
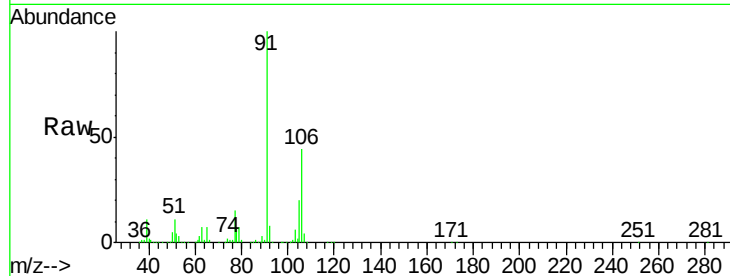
#59
m/p-Xylene
Concen: 4.630 ppbv m
RT: 13.14 min Scan# 3173
Delta R.T. 0.00 min
Lab File: VL033615.D
Acq: 1 May 2019 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 91 Resp: 1362084
Ion Ratio Lower Upper
91 100
106 44.5 0.0 0.0#

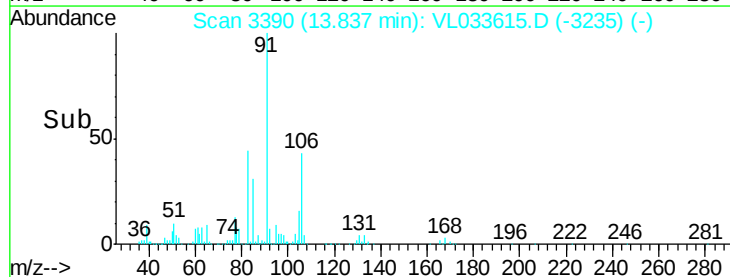
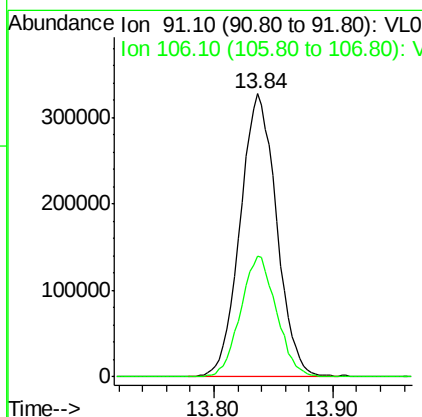
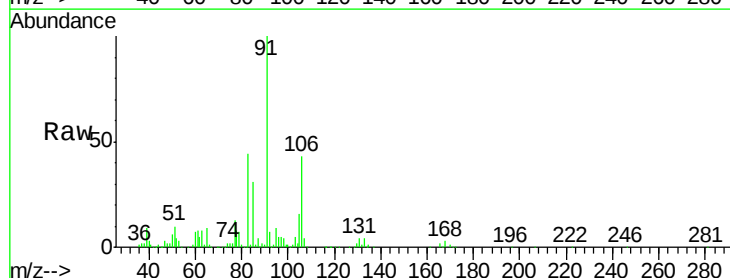
Manual Integrations
APPROVED

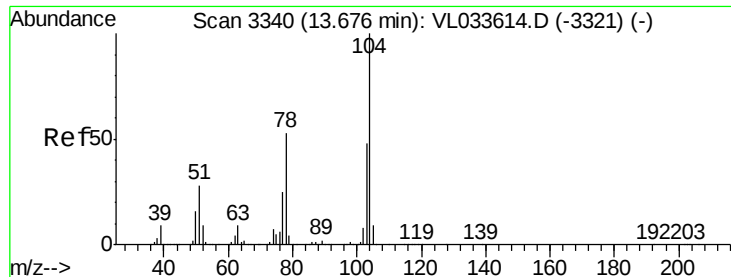
MMDadoda
5/2/2019 4:03:49 PM



#60
o-Xylene
Concen: 2.334 ppbv
RT: 13.84 min Scan# 3390
Delta R.T. -0.00 min
Lab File: VL033615.D
Acq: 1 May 2019 12:34

Tgt Ion: 91 Resp: 689965
Ion Ratio Lower Upper
91 100
106 42.2 21.8 65.4





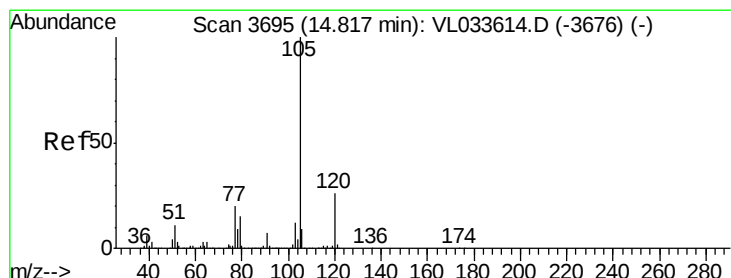
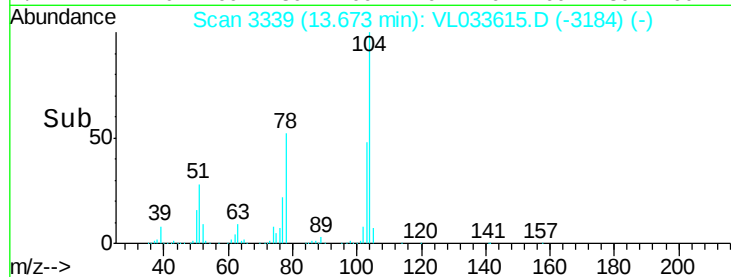
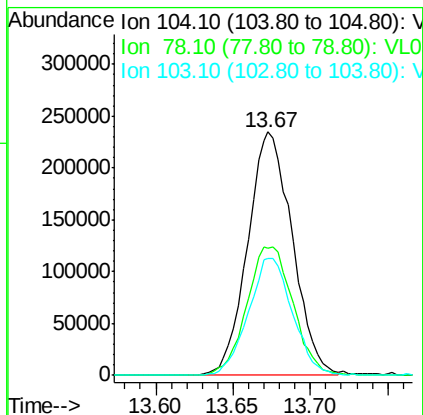
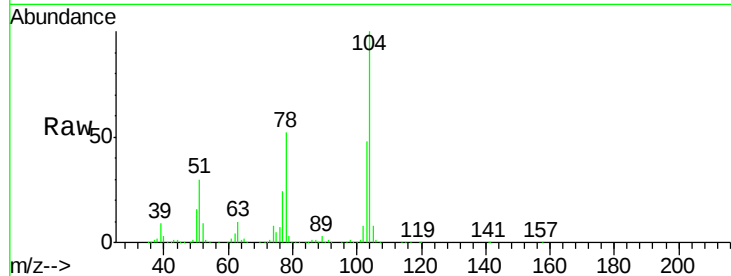
#61
Stvrene
Concen: 2.329 ppbv
RT: 13.67 min Scan# 3339
Delta R.T. -0.00 min
Lab File: VL033615.D
Acq: 1 May 2019 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
104	100		
78	54.9	42.7	64.1
103	47.8	37.8	56.6

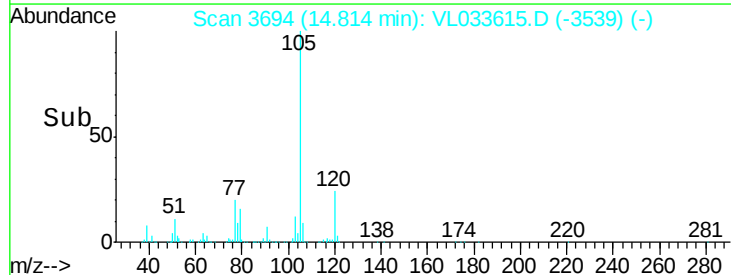
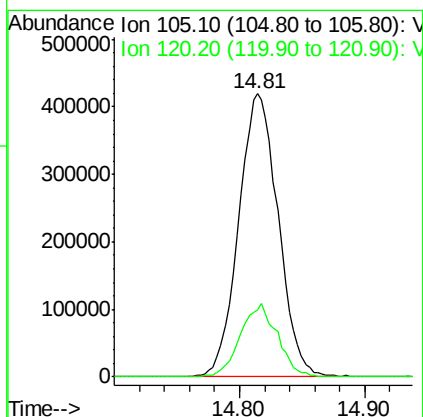
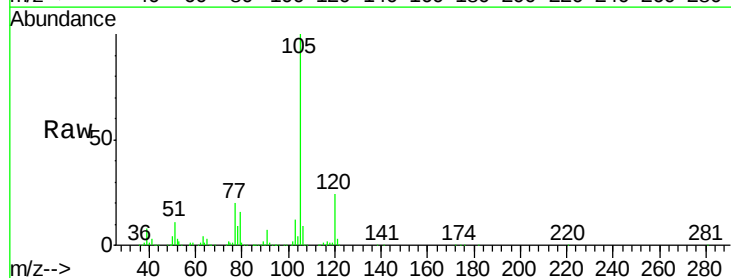
Manual Integrations
APPROVED

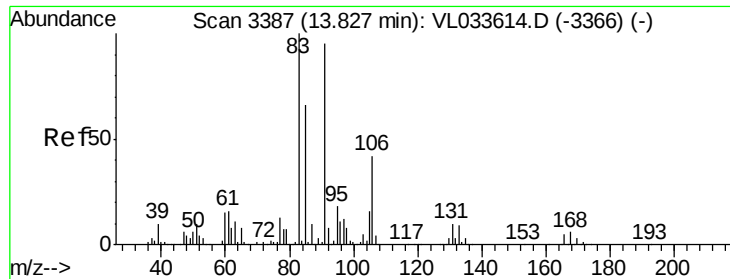
MMDadoda
5/2/2019 4:03:49 PM



#62
Isopropylbenzene
Concen: 2.311 ppbv
RT: 14.81 min Scan# 3694
Delta R.T. -0.00 min
Lab File: VL033615.D
Acq: 1 May 2019 12:34

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.3	20.3	30.5





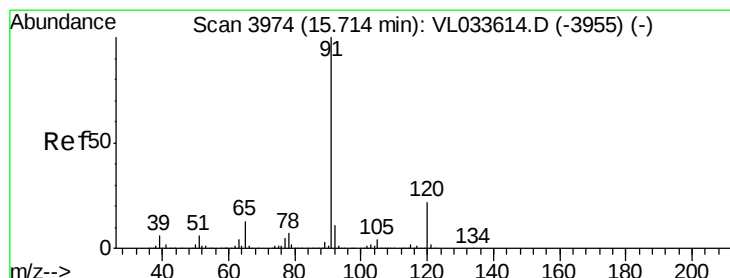
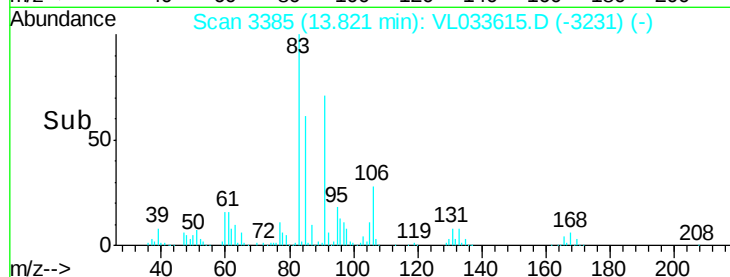
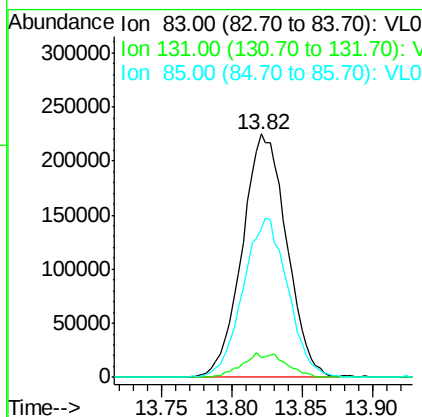
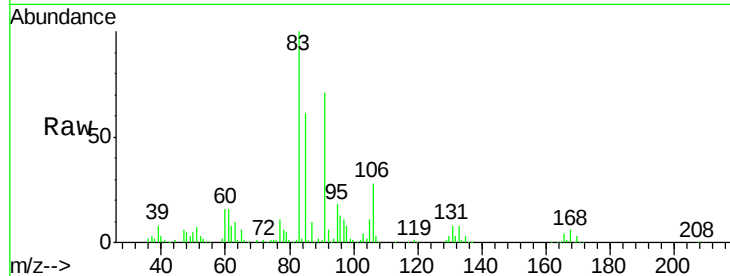
#63
 1,1,2,2-Tetrachloroethane
 Concen: 2.140 ppbv
 RT: 13.82 min Scan# 3385
 Delta R.T. -0.01 min
 Lab File: VL033615.D
 Acq: 1 May 2019 12:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
83	100	495523		
131	9.8	4.8	14.4	
85	66.3	32.3	96.8	

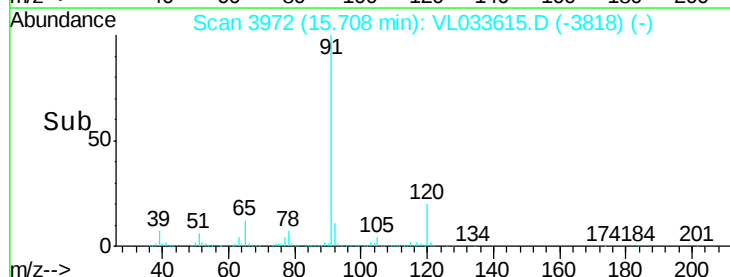
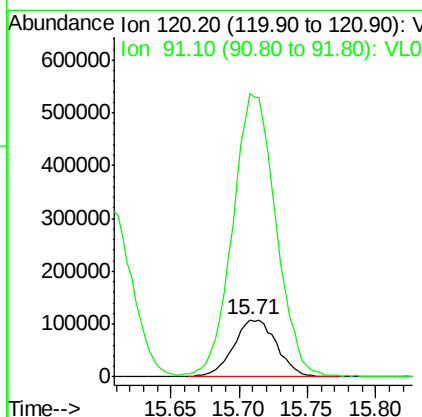
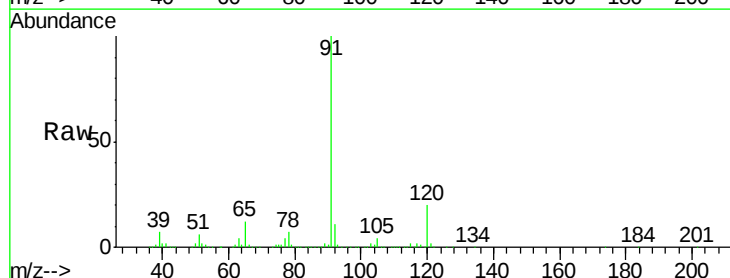
Manual Integrations
 APPROVED

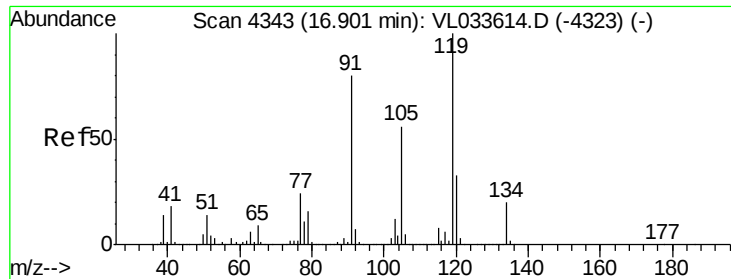
MMDadoda
 5/2/2019 4:03:49 PM



#64
 n-propylbenzene
 Concen: 2.337 ppbv
 RT: 15.71 min Scan# 3972
 Delta R.T. -0.01 min
 Lab File: VL033615.D
 Acq: 1 May 2019 12:34

Tgt Ion	Ratio	Resp	Lower	Upper
120	100	239558		
91	496.8	380.2	570.2	





#65

tert-Butylbenzene

Concen: 2.460 ppbv

RT: 16.89 min Scan# 4340

Delta R.T. -0.01 min

Lab File: VL033615.D

Acq: 1 May 2019 12:34

Instrument :

MSVOA_L

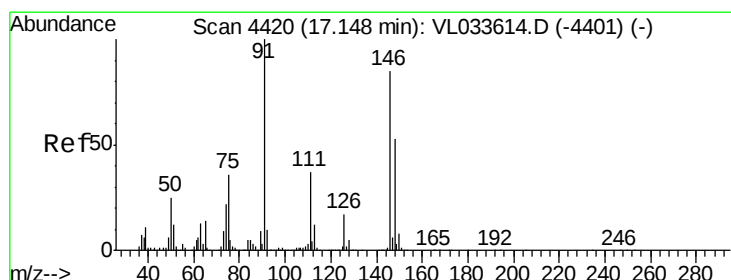
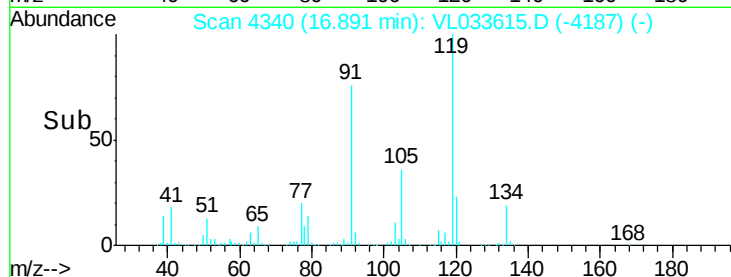
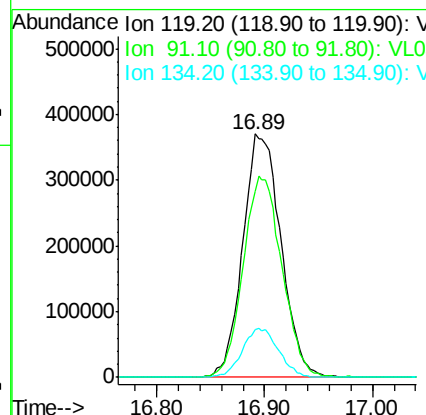
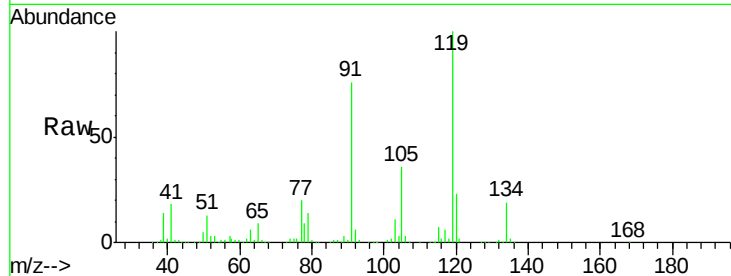
ClientSampleId :

VSTDIC002

Tot Ion:	119	Resp:	909180
Ion Ratio	Lower	Upper	
119	100		
91	84.3	66.1	99.1
134	19.2	15.6	23.4

Manual Integrations
APPROVED

MMDadoda
5/2/2019 4:03:49 PM



#66

Benzyl Chloride

Concen: 2.300 ppbv

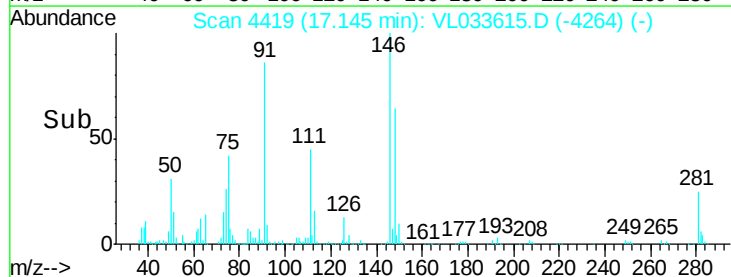
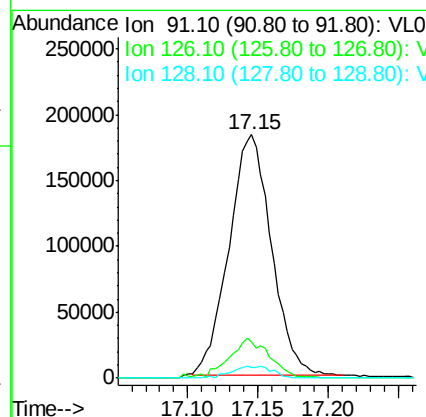
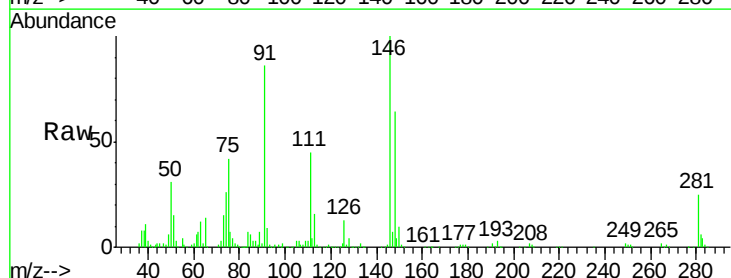
RT: 17.15 min Scan# 4419

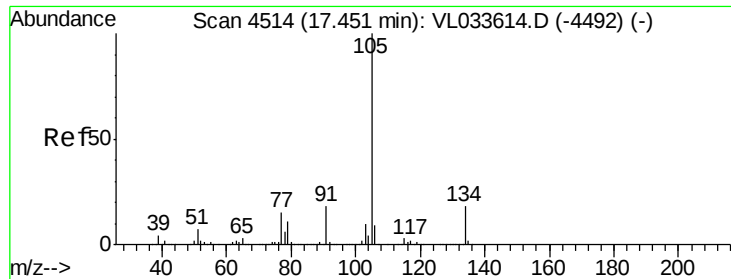
Delta R.T. -0.00 min

Lab File: VL033615.D

Acq: 1 May 2019 12:34

Tgt Ion:	91	Resp:	386095
Ion Ratio	Lower	Upper	
91	100		
126	16.2	13.4	20.2
128	4.9	4.3	6.5





#67

sec-Butylbenzene

Concen: 2.495 ppbv

RT: 17.45 min Scan# 4513

Delta R.T. -0.00 min

Lab File: VL033615.D

Acq: 1 May 2019 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 105 Resp: 1294944

Ion Ratio Lower Upper

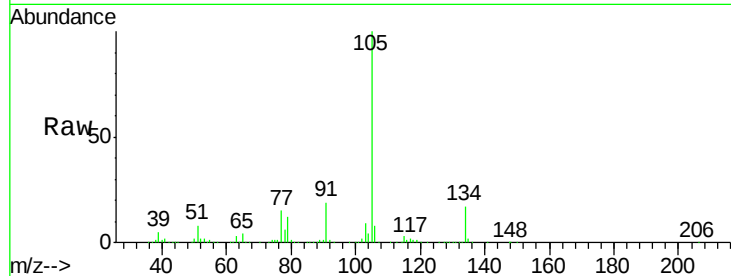
105 100

134 17.8 14.6 21.8

Manual Integrations
APPROVED

MMDadoda

5/2/2019 4:03:49 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.45

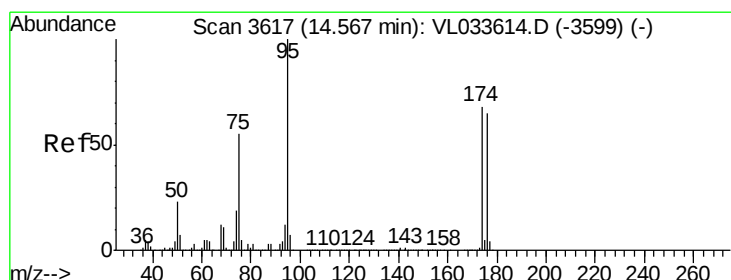
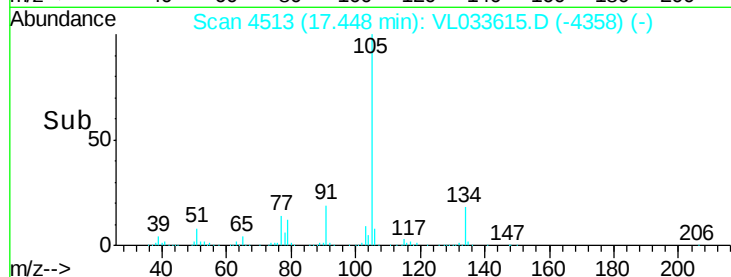
600000

400000

200000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 10.154 ppbv

RT: 14.57 min Scan# 3617

Delta R.T. 0.00 min

Lab File: VL033615.D

Acq: 1 May 2019 12:34

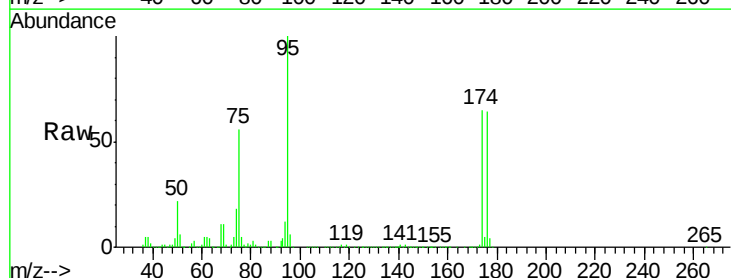
Tgt Ion: 95 Resp: 2277243

Ion Ratio Lower Upper

95 100

174 67.8 53.9 80.9

175 4.9 4.0 6.0



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

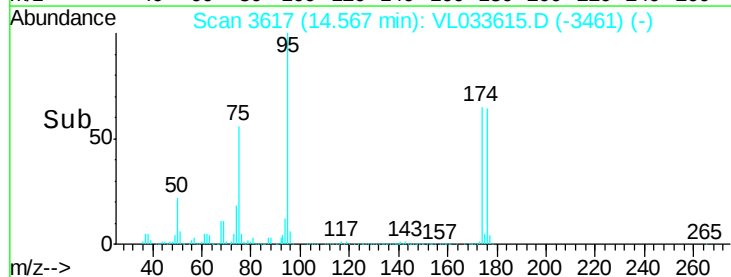
14.57

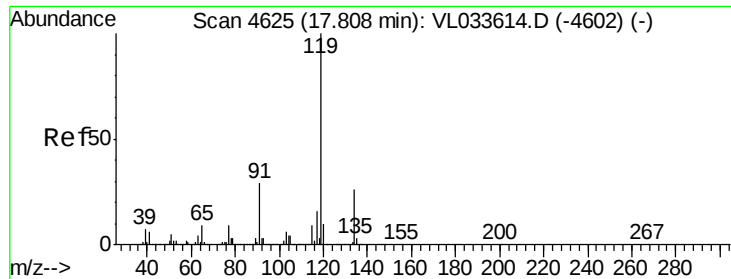
1000000

500000

0

Time-->





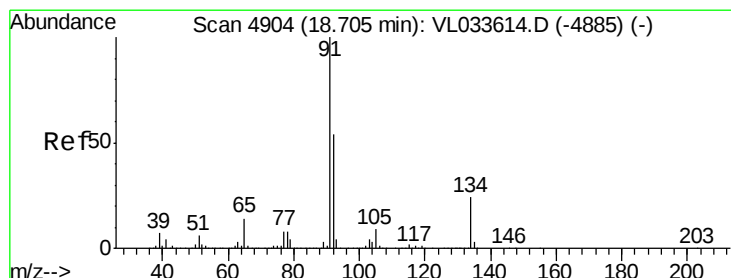
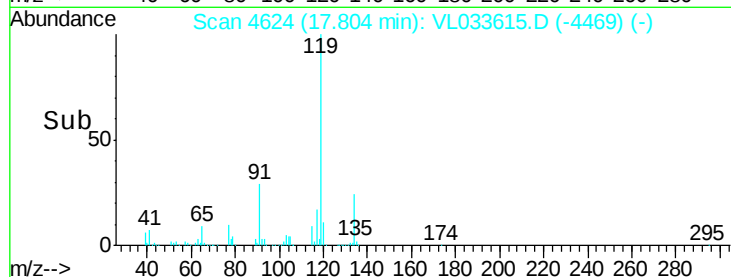
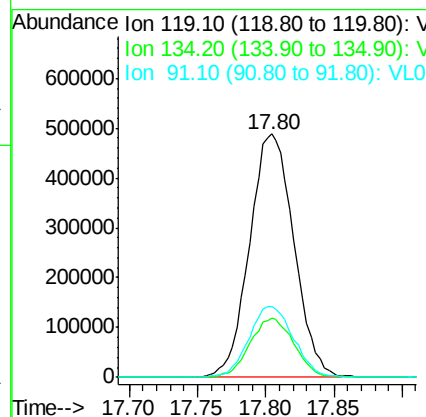
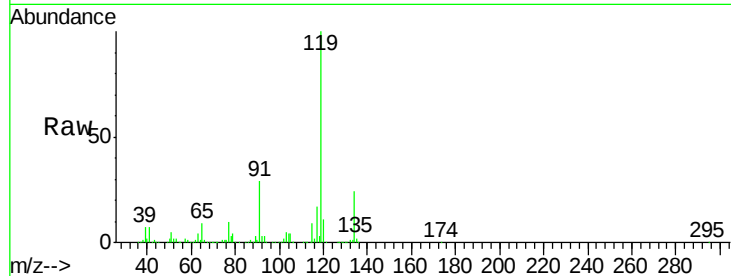
#69
 p-Isopropyltoluene
 Concen: 2.541 ppbv
 RT: 17.80 min Scan# 4624
 Delta R.T. -0.00 min
 Lab File: VL033615.D
 Acq: 1 May 2019 12:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
119	100		
134	24.4	20.2	30.2
91	29.7	23.3	34.9

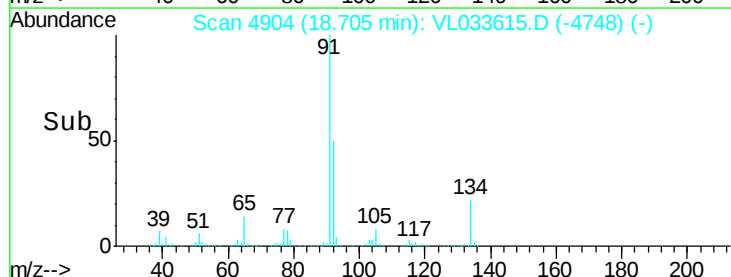
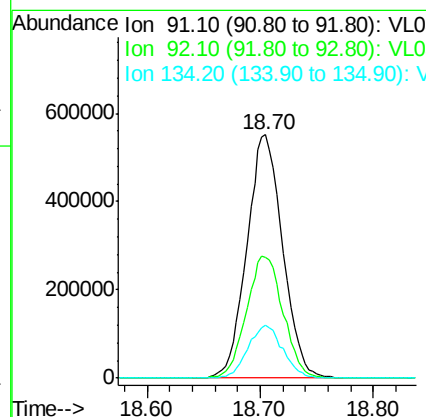
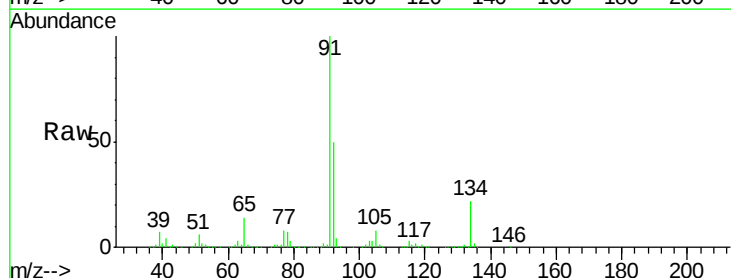
Manual Integrations
 APPROVED

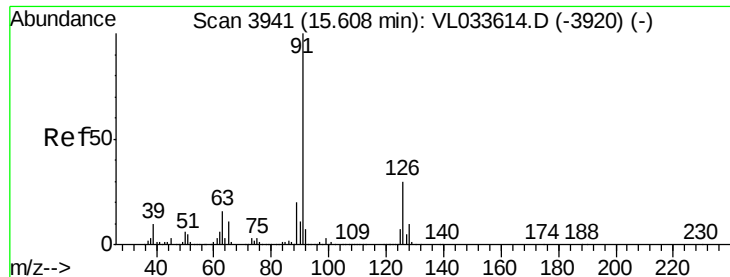
MMDadoda
 5/2/2019 4:03:49 PM



#70
 n-Butylbenzene
 Concen: 2.570 ppbv
 RT: 18.70 min Scan# 4904
 Delta R.T. 0.00 min
 Lab File: VL033615.D
 Acq: 1 May 2019 12:34

Tgt Ion	Ratio	Lower	Upper
91	100		
92	51.6	42.6	64.0
134	21.3	18.0	27.0





#71

2-Chlorotoluene

Concen: 2.340 ppbv

RT: 15.61 min Scan# 3940

Delta R.T. -0.00 min

Lab File: VL033615.D

Acq: 1 May 2019 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 691781

Ion Ratio Lower Upper

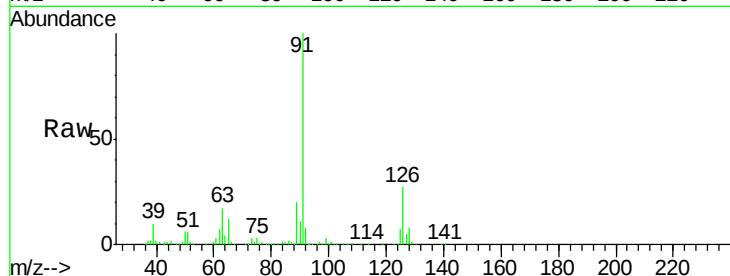
91 100

126 29.4 11.9 47.7

Manual Integrations
APPROVED

MMDadoda

5/2/2019 4:03:49 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

600000

500000

400000

300000

200000

100000

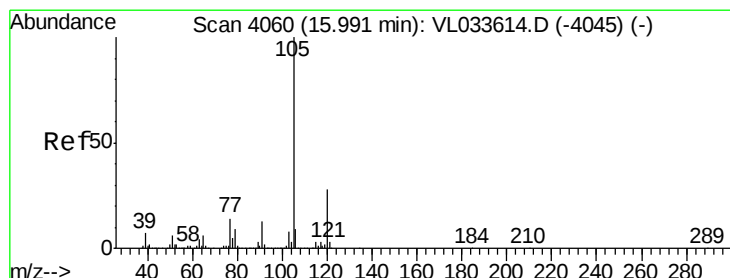
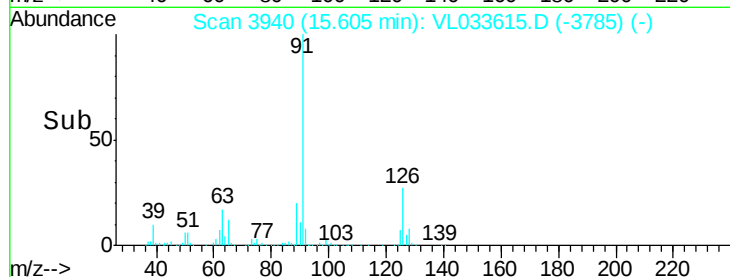
0

15.50

15.60

15.61

Time-->



#72

4-Ethyltoluene

Concen: 2.379 ppbv

RT: 15.99 min Scan# 4060

Delta R.T. 0.00 min

Lab File: VL033615.D

Acq: 1 May 2019 12:34

Tgt Ion:105 Resp: 801573

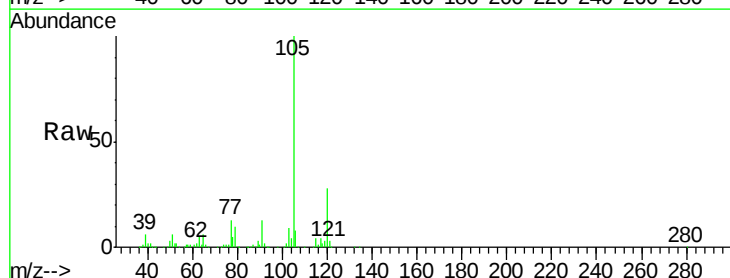
Ion Ratio Lower Upper

105 100

120 28.7 23.2 34.8

91 13.9 10.3 15.5

77 14.7 11.0 16.6



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

500000

400000

300000

200000

100000

0

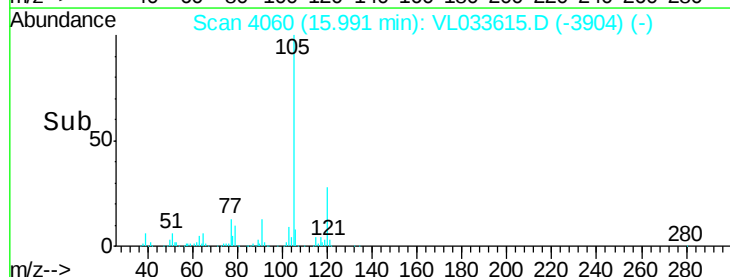
15.90

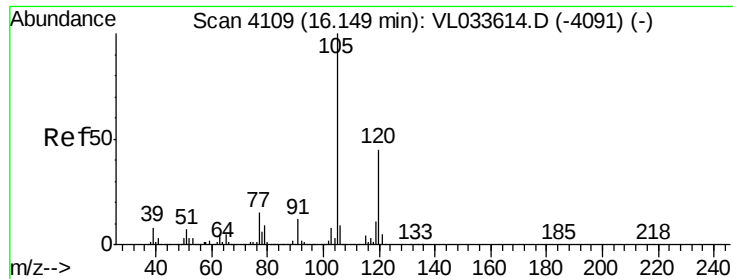
15.95

15.99

16.05

Time-->





#73

1,3,5-Trimethylbenzene

Concen: 2.352 ppbv

RT: 16.15 min Scan# 4108

Delta R.T. -0.00 min

Lab File: VL033615.D

Acq: 1 May 2019 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:105 Resp: 779081

Ion Ratio Lower Upper

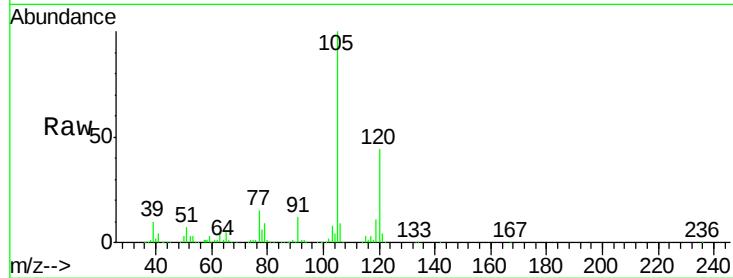
105 100

120 44.4 36.2 54.2

Manual Integrations
APPROVED

MMDadoda

5/2/2019 4:03:49 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.15

400000

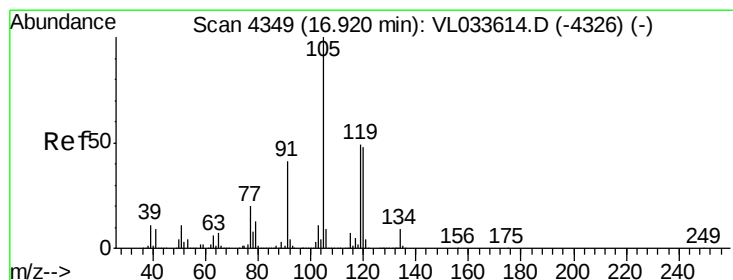
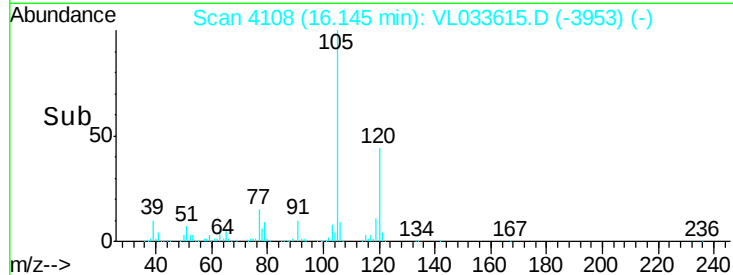
300000

200000

100000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 2.409 ppbv

RT: 16.91 min Scan# 4347

Delta R.T. -0.01 min

Lab File: VL033615.D

Acq: 1 May 2019 12:34

Tgt Ion:105 Resp: 889047

Ion Ratio Lower Upper

105 100

120 47.4 38.4 57.6

91 46.4 33.0 49.4

77 21.1 16.2 24.2

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): V

Ion 77.10 (76.80 to 77.80): V

16.91

600000

500000

400000

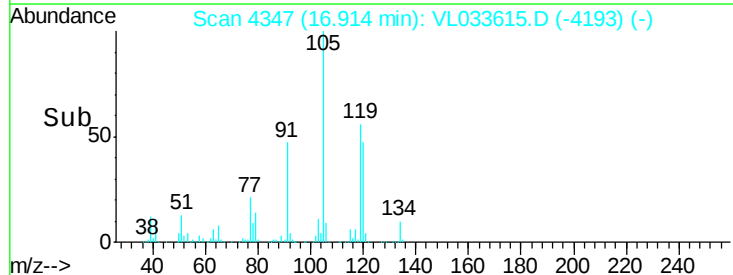
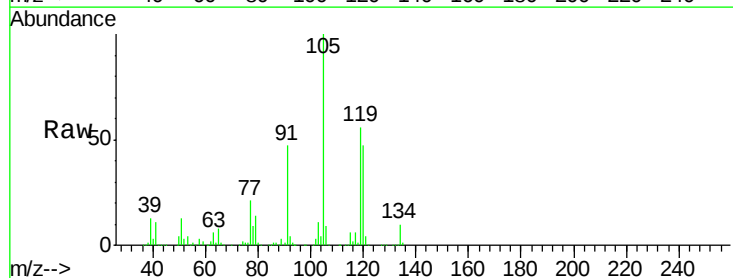
300000

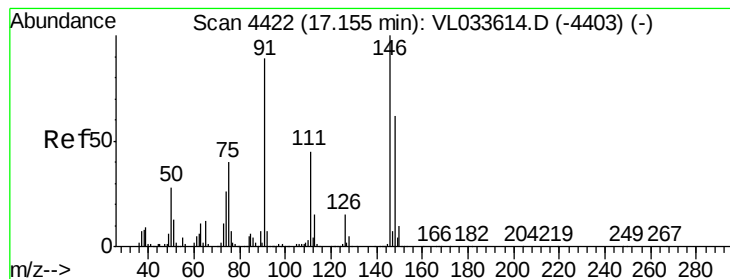
200000

100000

0

Time-->





#75

1,3-Dichlorobenzene

Concen: 2.387 ppbv

RT: 17.15 min Scan# 4422

Delta R.T. 0.00 min

Lab File: VL033615.D

Acq: 1 May 2019 12:34

Instrument :

MSVOA_L

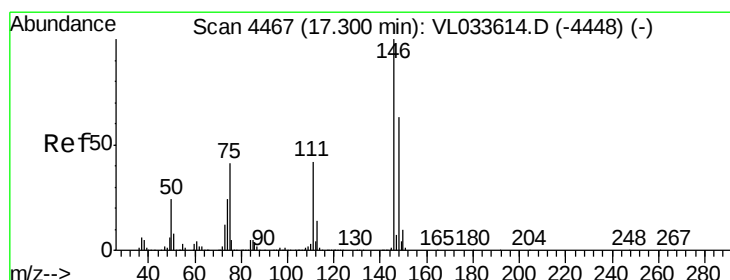
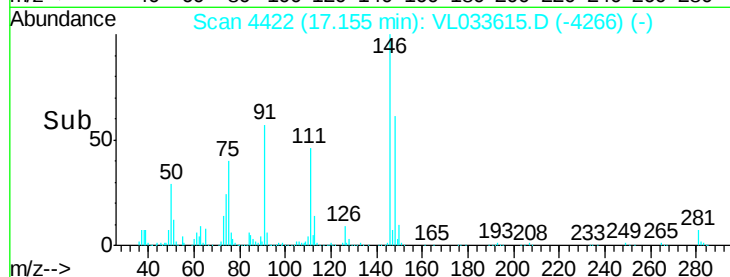
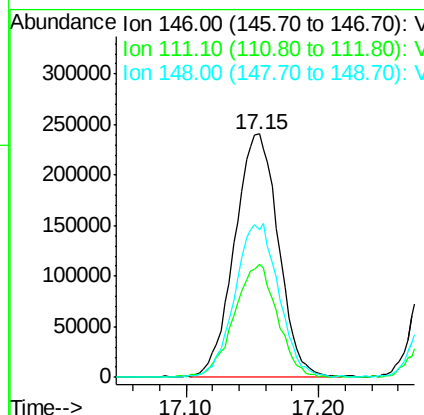
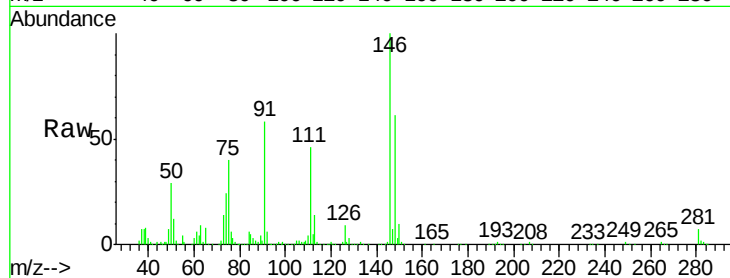
ClientSampleId :

VSTDIC002

Tot Ion:	146	Resp:	548446
Ion Ratio	Lower	Upper	
146	100		
111	46.3	22.4	67.2
148	64.3	32.0	96.0

Manual Integrations
APPROVED

MMDadoda
5/2/2019 4:03:49 PM



#76

1,4-Dichlorobenzene

Concen: 2.436 ppbv

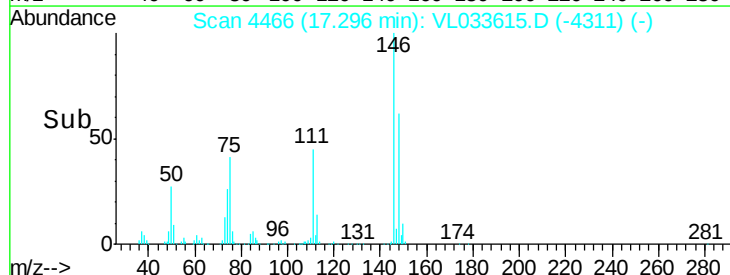
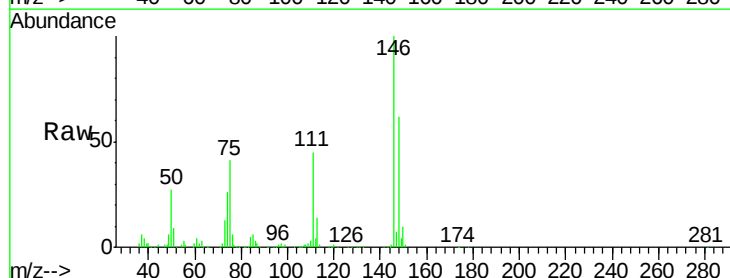
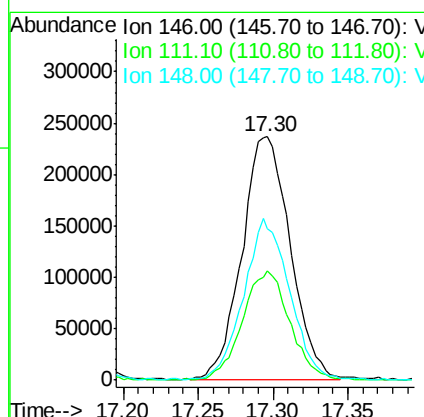
RT: 17.30 min Scan# 4466

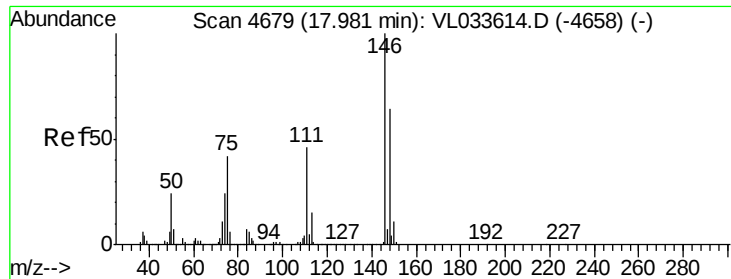
Delta R.T. -0.00 min

Lab File: VL033615.D

Acq: 1 May 2019 12:34

Tgt Ion:	146	Resp:	533953
Ion Ratio	Lower	Upper	
146	100		
111	44.1	21.6	65.0
148	63.4	32.3	96.9





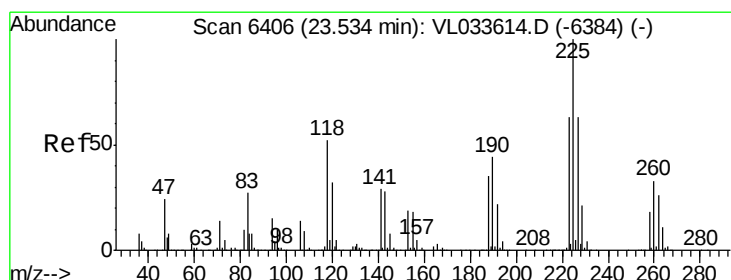
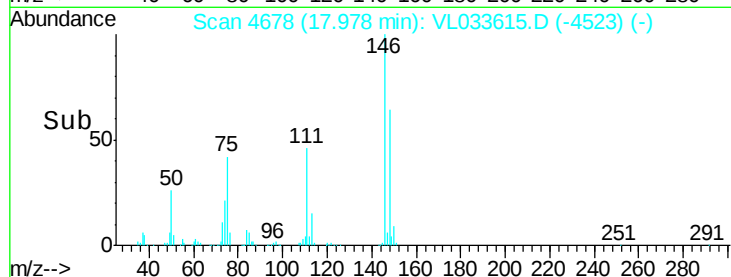
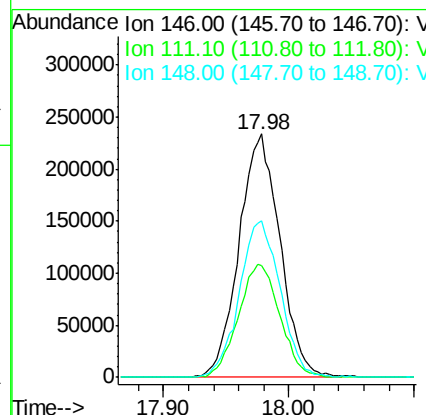
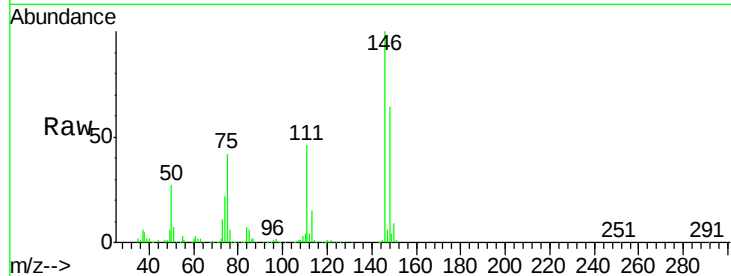
#77
 1,2-Dichlorobenzene
 Concen: 2.474 ppbv
 RT: 17.98 min Scan# 4678
 Delta R.T. -0.00 min
 Lab File: VL033615.D
 Acq: 1 May 2019 12:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.0	23.3	69.9
148	64.7	32.2	96.6

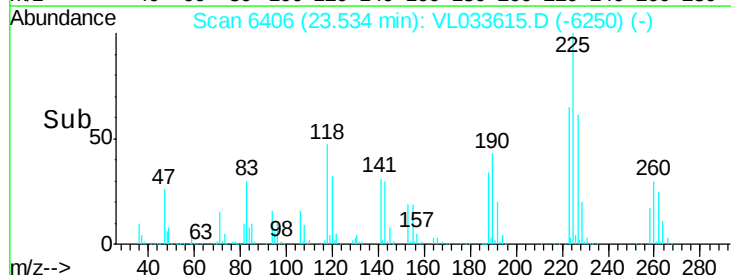
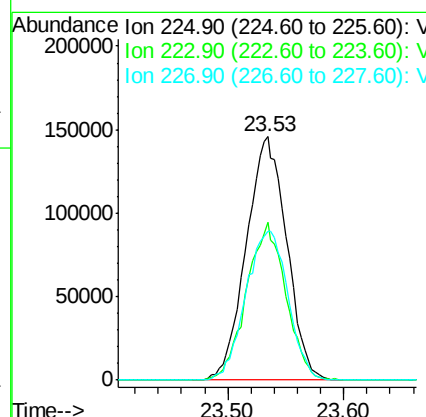
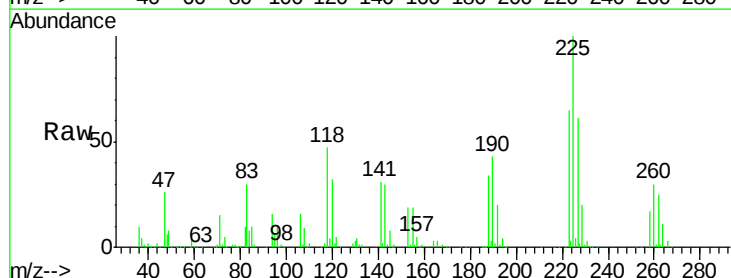
Manual Integrations
 APPROVED

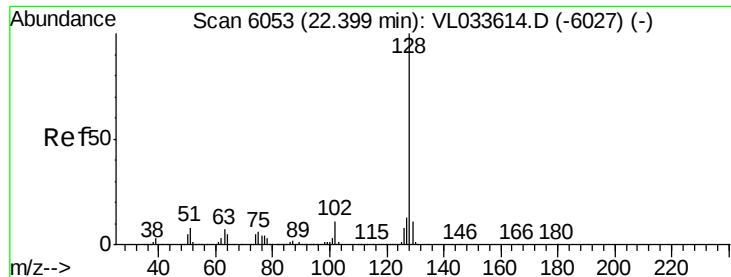
MMDadoda
 5/2/2019 4:03:49 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 2.163 ppbv
 RT: 23.53 min Scan# 6406
 Delta R.T. 0.00 min
 Lab File: VL033615.D
 Acq: 1 May 2019 12:34

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.4	75.6
227	63.9	50.7	76.1





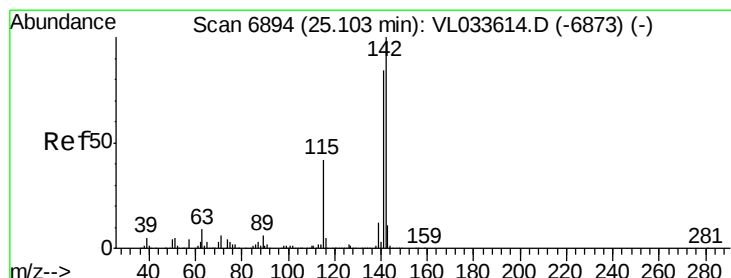
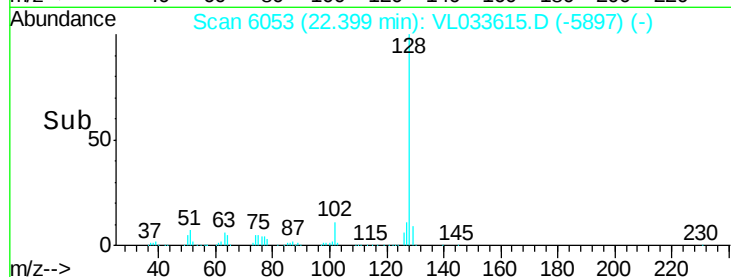
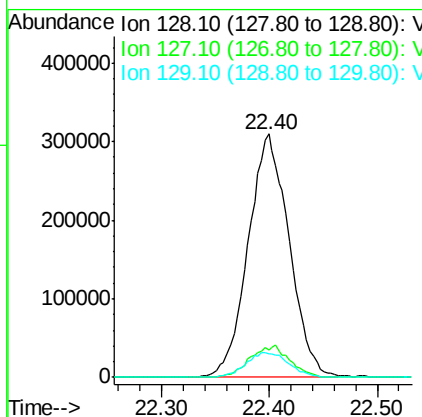
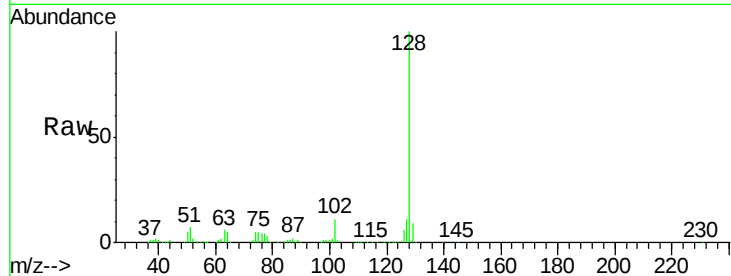
#79
Naphthalene
Concen: 2.389 ppbv
RT: 22.40 min Scan# 6053
Delta R.T. 0.00 min
Lab File: VL033615.D
Acq: 1 May 2019 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.0	10.6	16.0
129	9.5	8.6	13.0

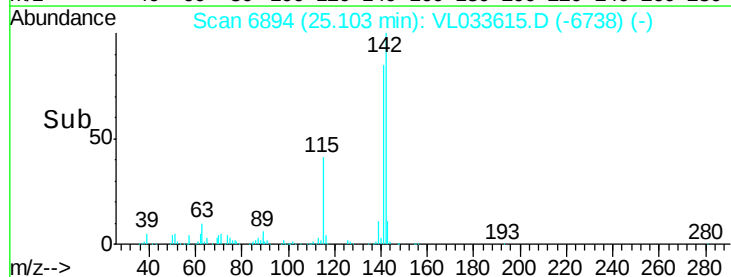
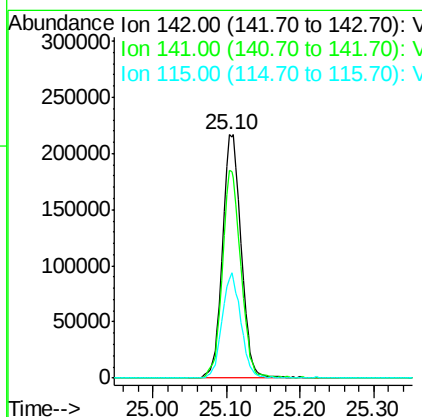
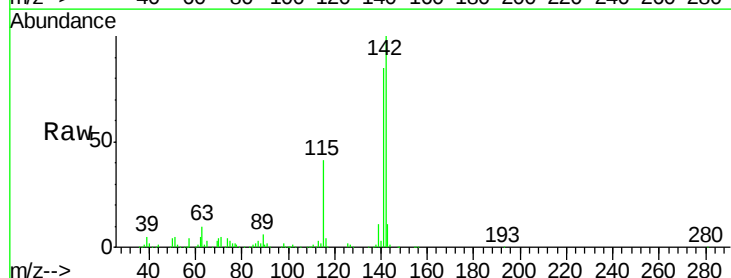
Manual Integrations
APPROVED

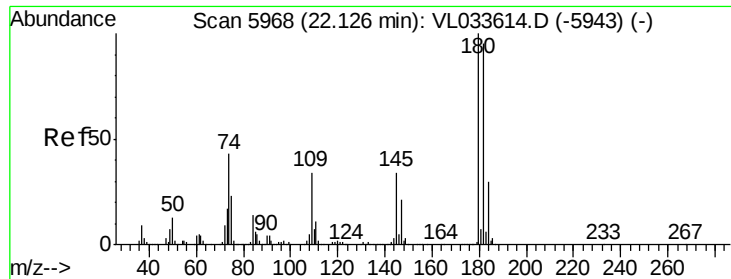
MMDadoda
5/2/2019 4:03:49 PM



#80
Naphthalene, 2-methyl-
Concen: 2.590 ppbv
RT: 25.10 min Scan# 6894
Delta R.T. 0.00 min
Lab File: VL033615.D
Acq: 1 May 2019 12:34

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.7	67.3	100.9
115	43.0	33.8	50.8





#81
 1,2,4-Trichlorobenzene
 Concen: 2.313 ppbv
 RT: 22.12 min Scan# 5967
 Delta R.T. -0.00 min
 Lab File: VL033615.D
 Acq: 1 May 2019 12:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.7	76.2	114.2
184	30.6	24.5	36.7

Manual Integrations
 APPROVED

MMDadoda
 5/2/2019 4:03:49 PM

