

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050119\
 Data File : VL033617.D
 Acq On : 1 May 2019 13:52
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 5/2/2019 4:03:58 PM

Quant Time: May 02 05:09:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050119AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu May 02 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	1092951	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2594003	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2658119	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.56	95	2174958	10.67	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	117725	0.715	ppbv	94
3) Chlorodifluoromethane	3.01	51	74472m	0.532	ppbv	
4) Chloromethane	3.17	50	40195	0.565	ppbv #	86
5) Vinyl Chloride	3.28	62	37459	0.502	ppbv #	86
6) Bromomethane	3.51	94	25068m	0.570	ppbv	
7) Chloroethane	3.60	64	13267	0.533	ppbv #	84
8) Dichlorotetrafluoroethane	3.21	85	98818	0.551	ppbv	97
9) Propene	3.03	41	28526	0.762	ppbv #	80
10) Heptane	8.24	43	61776	0.446	ppbv	99
11) Trichlorofluoromethane	4.00	101	114514	0.585	ppbv	91
12) 1,1,2-Trichlorotrifluoroet	4.55	101	77100	0.574	ppbv	97
13) Ethanol	3.65	45	11510m	0.678	ppbv	
14) Bromoethene	3.78	108	29786	0.540	ppbv #	95
15) Acetone	3.90	43	80706	0.607	ppbv	98
16) 1,3-Butadiene	3.35	39	30919	0.516	ppbv	97
17) tert-Butyl alcohol	4.35	59	65592m	0.571	ppbv	
18) 1,1-Dichloroethene	4.35	96	33618	0.576	ppbv #	82
19) Isopropyl Alcohol	4.02	45	52529	0.575	ppbv #	92
20) Methylene Chloride	4.40	84	31325	0.604	ppbv #	92
21) Allyl Chloride	4.47	41	44593	0.533	ppbv	96
22) trans-1,2-Dichloroethene	4.96	96	30706m	0.537	ppbv	
23) Vinyl Acetate	5.14	43	96000	0.485	ppbv #	94
24) 1,1-Dichloroethane	5.08	63	79726	0.541	ppbv	97
25) Ethyl Acetate	5.76	43	128127	0.507	ppbv	99
26) Hexane	5.77	57	51721	0.486	ppbv	89
27) Carbon Disulfide	4.62	76	60881	0.473	ppbv #	84
28) Methyl tert-Butyl Ether	5.11	73	85908	0.479	ppbv	99
29) Chloroform	5.83	83	103890	0.533	ppbv	94
30) Cyclohexane	7.24	84	39986m	0.434	ppbv	
31) cis-1,2-Dichloroethene	5.63	61	51158m	0.477	ppbv	
32) 1,1,1-Trichloroethane	6.61	97	103166	0.505	ppbv	98
34) 2-Butanone	5.33	43	77727	0.488	ppbv	98
35) Carbon Tetrachloride	7.12	117	99911	0.486	ppbv	93
36) Benzene	6.99	78	107491	0.486	ppbv #	94
37) 1,2-Dichloroethane	6.40	62	78278	0.533	ppbv	99
38) Trichloroethene	7.95	130	44596	0.504	ppbv	88
39) 1,2-Dichloropropane	7.72	63	38038	0.456	ppbv	95
40) 1,4-Dioxane	7.98	88	19270m	0.569	ppbv	
41) Tetrahydrofuran	6.16	42	36688	0.431	ppbv	95
42) Bromodichloromethane	7.90	83	99104	0.499	ppbv	90
43) Methyl Methacrylate	8.13	69	35848	0.428	ppbv	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050119\
 Data File : VL033617.D
 Acq On : 1 May 2019 13:52
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

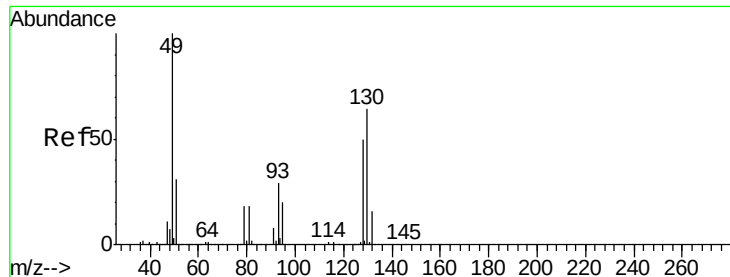
Manual Integrations
 APPROVED

MMDadoda
 5/2/2019 4:03:58 PM

Quant Time: May 02 05:09:57 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 05:09:57 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	189633	0.492	ppbv	94
45) t-1,3-Dichloropropene	9.40	75	41035m	0.369	ppbv	
46) cis-1,3-Dichloropropene	8.83	75	47224	0.377	ppbv	93
47) 1,1,2-Trichloroethane	9.60	97	49328	0.454	ppbv	91
48) Dibromochloromethane	10.44	129	74203	0.403	ppbv	99
49) Bromoform	13.18	173	62399m	0.443	ppbv	
50) 4-Methyl-2-Pentanone	8.87	43	106850	0.428	ppbv	95
51) 2-Hexanone	10.27	43	80105	0.366	ppbv #	91
52) Tetrachloroethene	11.36	164	41201	0.485	ppbv	92
53) Toluene	9.94	91	100405	0.360	ppbv	97
54) 1,2-Dibromoethane	10.75	107	69433	0.465	ppbv	90
56) 1,1,1,2-Tetrachloroethane	12.27	131	61636	0.531	ppbv #	1
57) Chlorobenzene	12.29	112	110499	0.534	ppbv	96
58) Ethyl Benzene	12.86	91	145152	0.469	ppbv	98
59) m/p-Xylene	13.13	91	265827m	0.994	ppbv	
60) o-Xylene	13.84	91	132248	0.492	ppbv	95
61) Styrene	13.67	104	76549	0.416	ppbv	94
62) Isopropylbenzene	14.82	105	177983	0.495	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.82	83	114739	0.545	ppbv	98
64) n-propylbenzene	15.72	120	44537	0.478	ppbv	88
65) tert-Butylbenzene	16.90	119	161613m	0.481	ppbv	
66) Benzyl Chloride	17.15	91	61736	0.405	ppbv	97
67) sec-Butylbenzene	17.45	105	226240	0.480	ppbv	98
69) p-Isopropyltoluene	17.81	119	178269	0.454	ppbv	95
70) n-Butylbenzene	18.70	91	202860	0.475	ppbv	96
71) 2-Chlorotoluene	15.61	91	127457	0.474	ppbv	100
72) 4-Ethyltoluene	15.99	105	134336	0.439	ppbv #	95
73) 1,3,5-Trimethylbenzene	16.15	105	143908	0.478	ppbv	90
74) 1,2,4-Trimethylbenzene	16.91	105	172370	0.514	ppbv #	89
75) 1,3-Dichlorobenzene	17.15	146	115424	0.553	ppbv	96
76) 1,4-Dichlorobenzene	17.30	146	103411	0.519	ppbv	99
77) 1,2-Dichlorobenzene	17.98	146	100913m	0.518	ppbv	
78) Hexachloro-1,3-Butadiene	23.53	225	86075	0.580	ppbv	98
79) Naphthalene	22.40	128	134578m	0.434	ppbv	
80) Naphthalene, 2-methyl-	25.11	142	42860	0.319	ppbv	97
81) 1,2,4-Trichlorobenzene	22.12	180	89135m	0.496	ppbv	

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



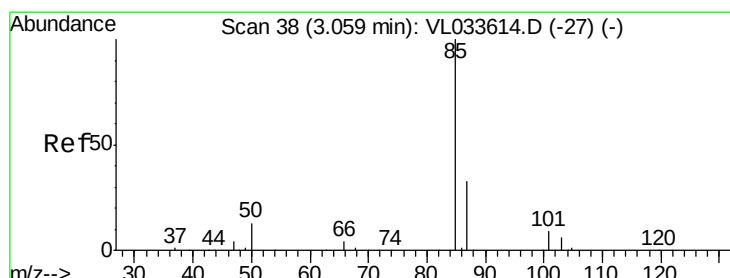
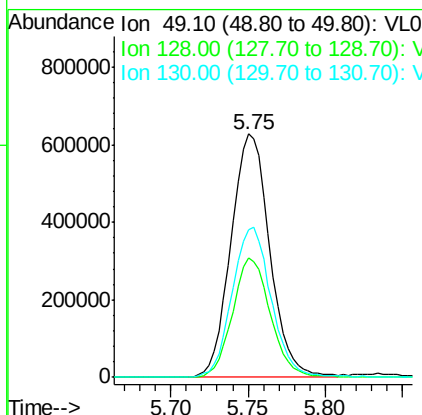
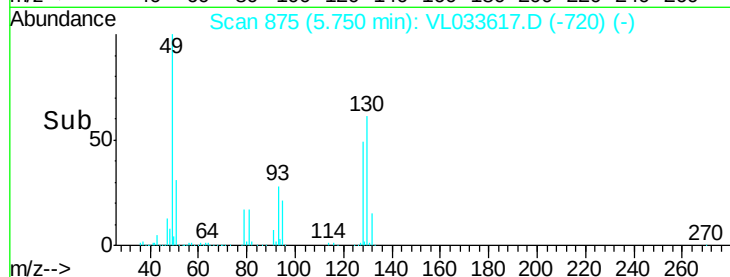
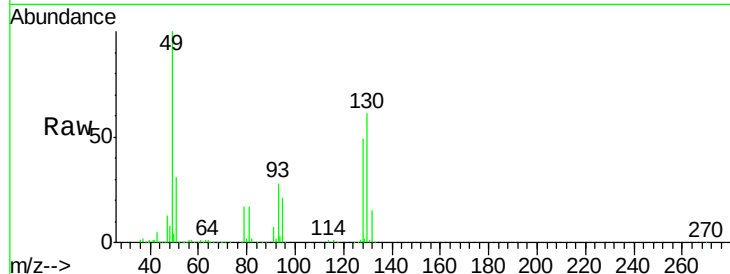
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.75 min Scan# 875
 Delta R.T. -0.00 min
 Lab File: VL033617.D
 Acq: 1 May 2019 13:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion:	49	Resp:	1092951
Ion	Ratio	Lower	Upper
49	100		
128	48.2	25.0	75.0
130	62.6	31.9	95.9

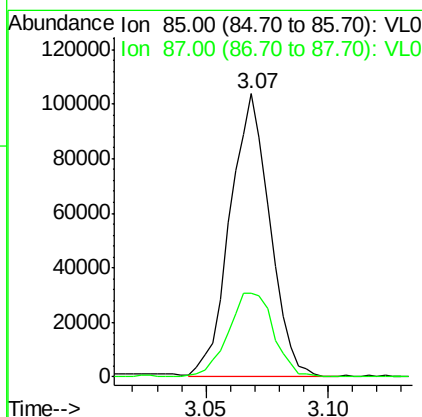
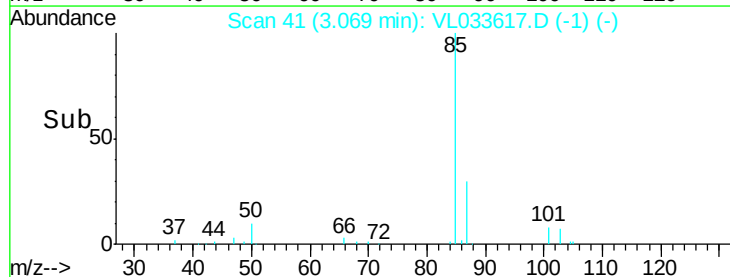
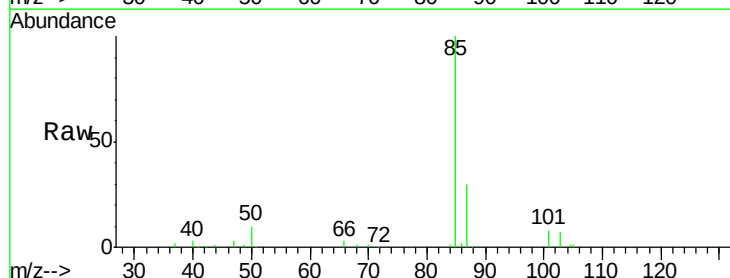
Manual Integrations
 APPROVED

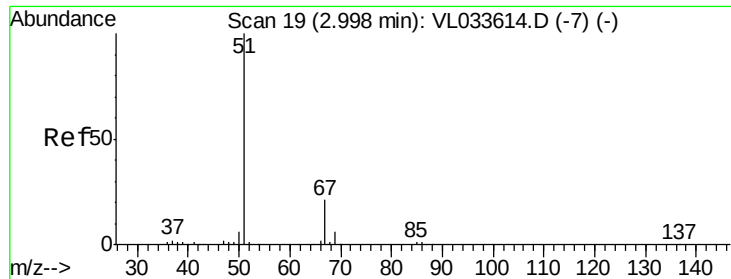
MMDadoda
 5/2/2019 4:03:58 PM



#2
 Dichlorodifluoromethane
 Concen: 0.715 ppbv
 RT: 3.07 min Scan# 41
 Delta R.T. 0.01 min
 Lab File: VL033617.D
 Acq: 1 May 2019 13:52

Tgt Ion:	85	Resp:	117725
Ion	Ratio	Lower	Upper
85	100		
87	30.0	26.8	40.2





#3

Chlorodifluoromethane

Concen: 0.532 ppbv

RT: 3.01 min Scan# 22

Delta R.T. 0.01 min

Lab File: VL033617.D

Acq: 1 May 2019 13:52

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 51 Resp: 74472

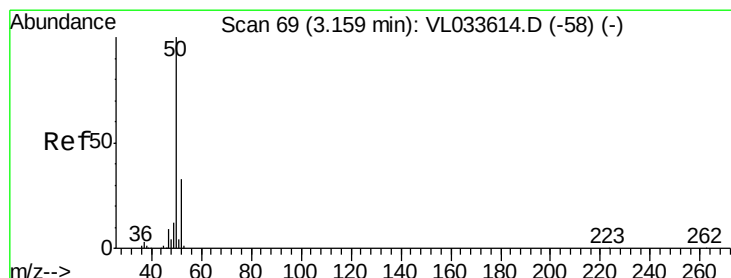
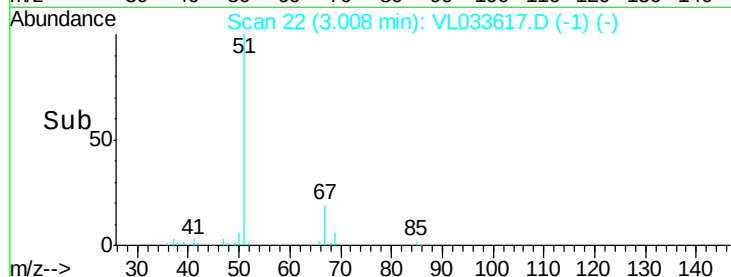
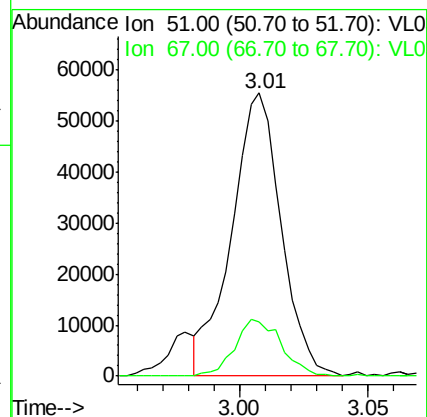
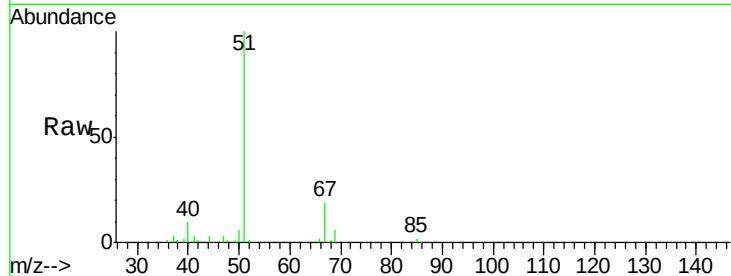
Ion Ratio Lower Upper

51 100

67 18.8 15.6 23.4

Manual Integrations
APPROVED

MMDadoda
5/2/2019 4:03:58 PM



#4

Chloromethane

Concen: 0.565 ppbv

RT: 3.17 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL033617.D

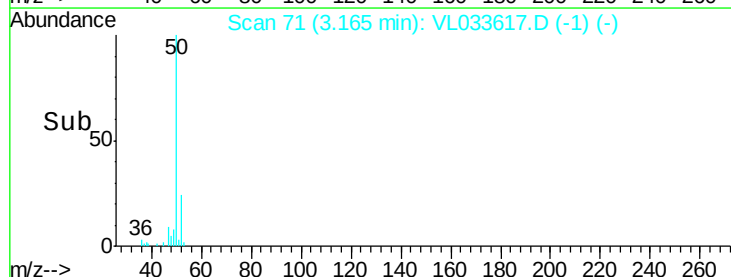
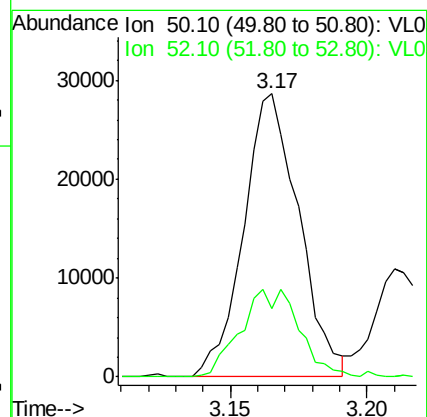
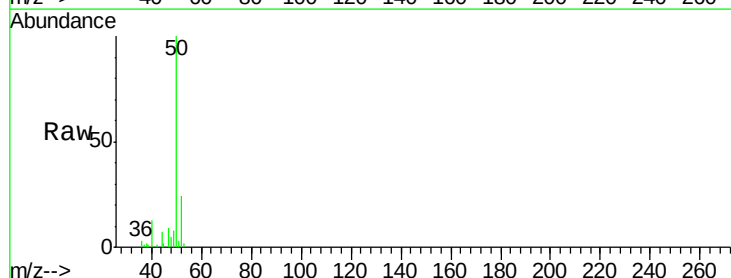
Acq: 1 May 2019 13:52

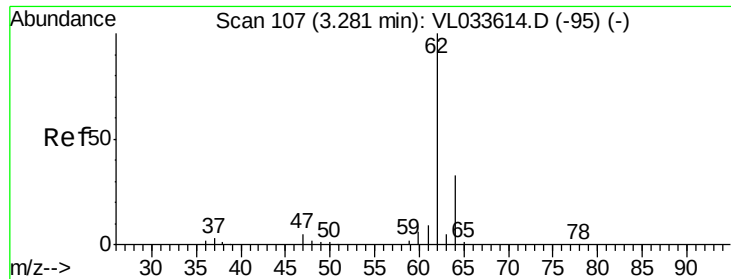
Tgt Ion: 50 Resp: 40195

Ion Ratio Lower Upper

50 100

52 24.4 26.0 39.0#





#5

Vinyl Chloride

Concen: 0.502 ppbv

RT: 3.28 min Scan# 108

Delta R.T. 0.00 min

Lab File: VL033617.D

Acq: 1 May 2019 13:52

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 62 Resp: 37459

Ion Ratio Lower Upper

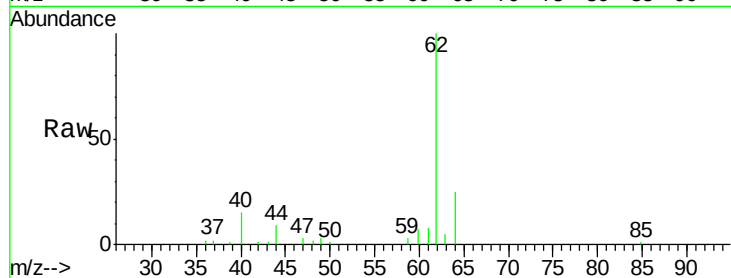
62 100

64 24.9 26.2 39.4#

Manual Integrations
APPROVED

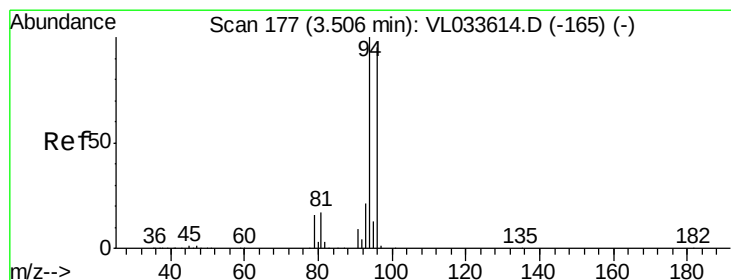
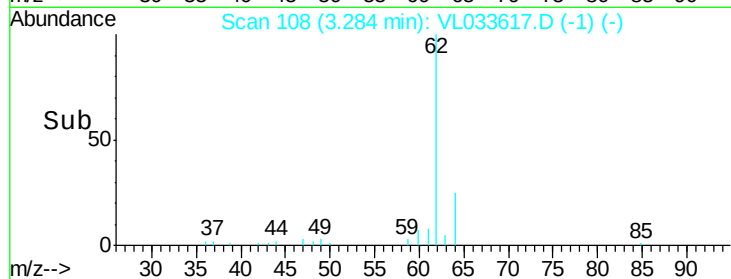
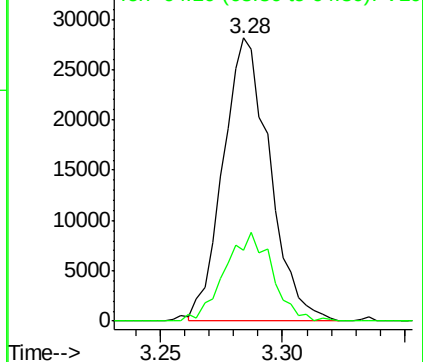
MMDadoda

5/2/2019 4:03:58 PM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.570 ppbv m

RT: 3.51 min Scan# 177

Delta R.T. 0.00 min

Lab File: VL033617.D

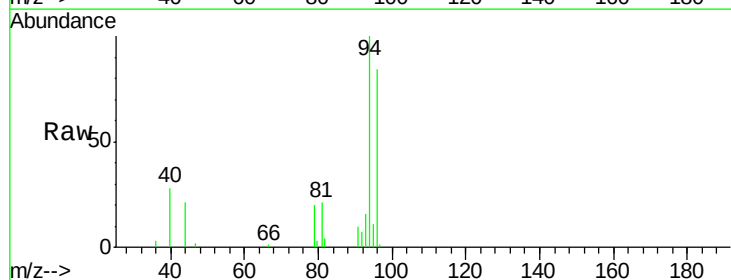
Acq: 1 May 2019 13:52

Tgt Ion: 94 Resp: 25068

Ion Ratio Lower Upper

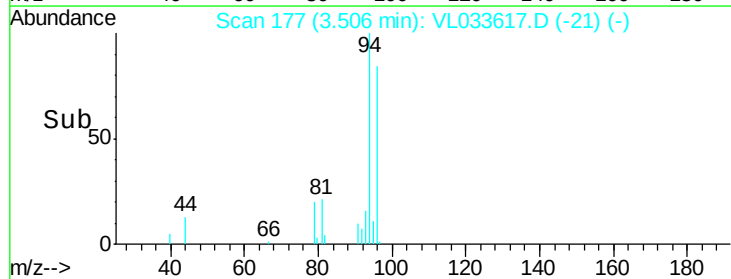
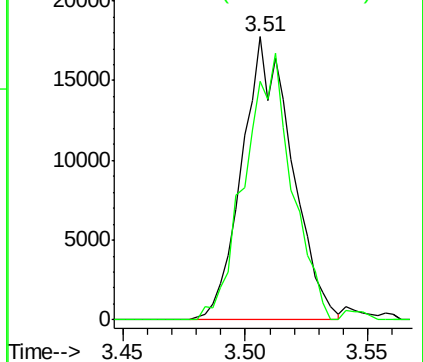
94 100

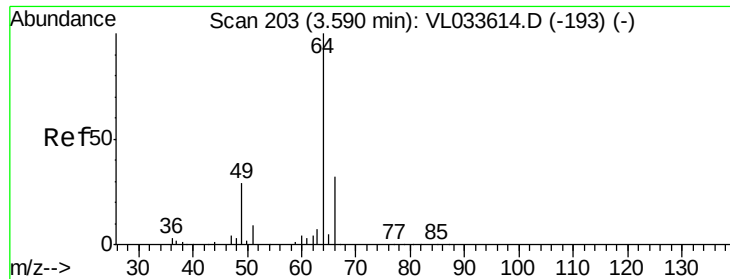
96 84.1 75.7 113.5



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.533 ppbv

RT: 3.60 min Scan# 205

Delta R.T. 0.01 min

Lab File: VL033617.D

Acq: 1 May 2019 13:52

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 64 Resp: 13267

Ion Ratio Lower Upper

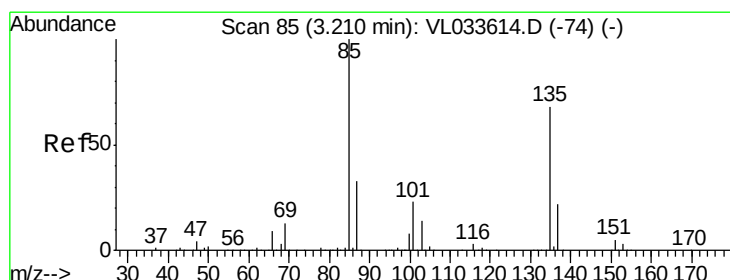
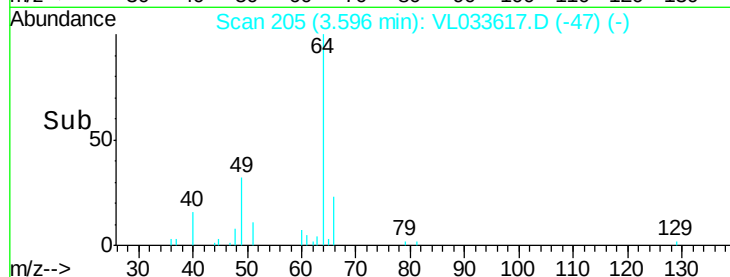
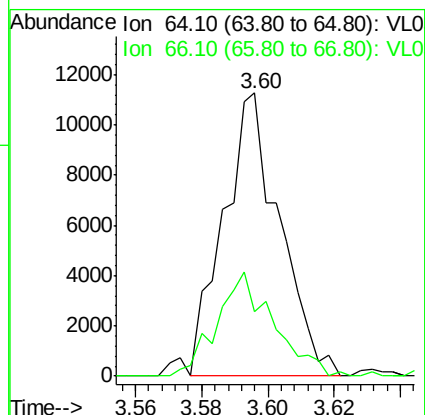
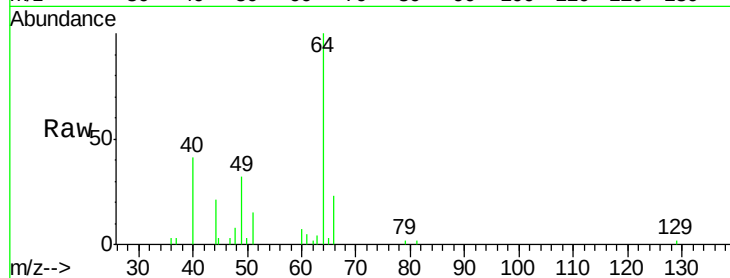
64 100

66 22.7 25.4 38.2#

Manual Integrations
APPROVED

MMDadoda

5/2/2019 4:03:58 PM



#8

Dichlorotetrafluoroethane

Concen: 0.551 ppbv

RT: 3.21 min Scan# 86

Delta R.T. 0.00 min

Lab File: VL033617.D

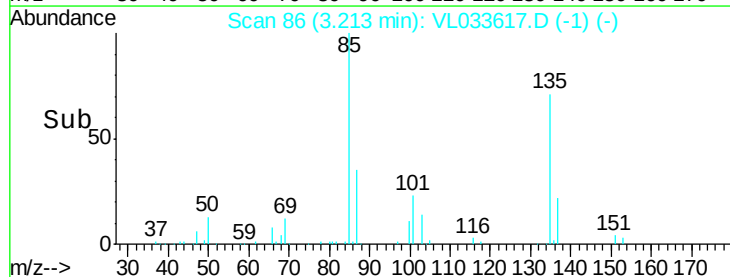
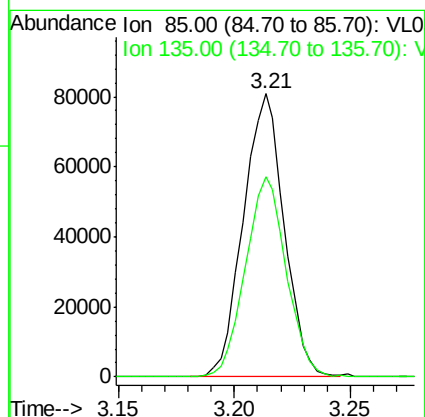
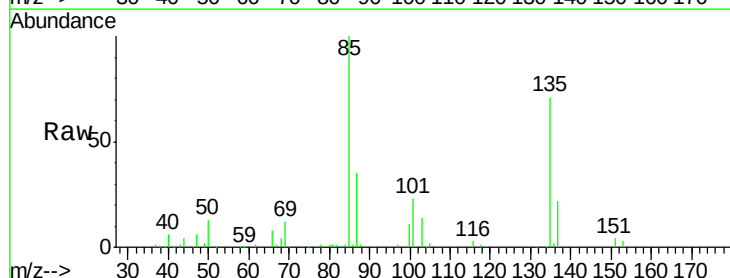
Acq: 1 May 2019 13:52

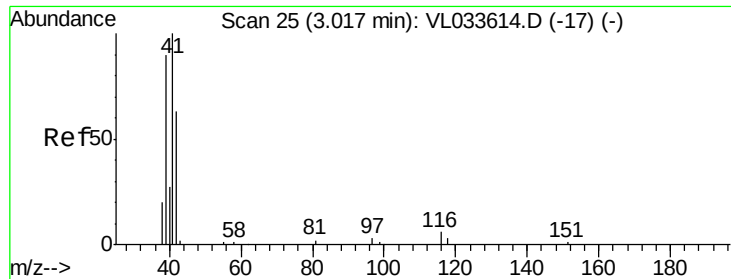
Tgt Ion: 85 Resp: 98818

Ion Ratio Lower Upper

85 100

135 71.1 55.0 82.6





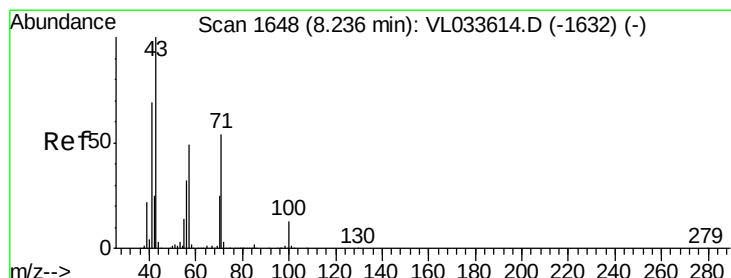
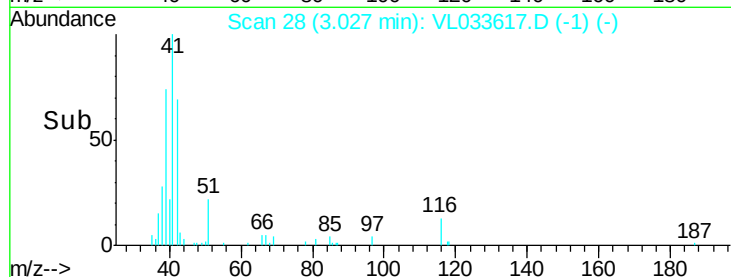
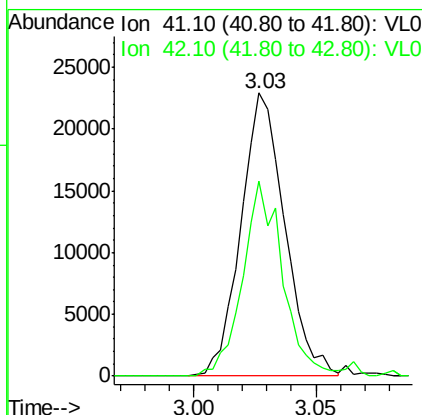
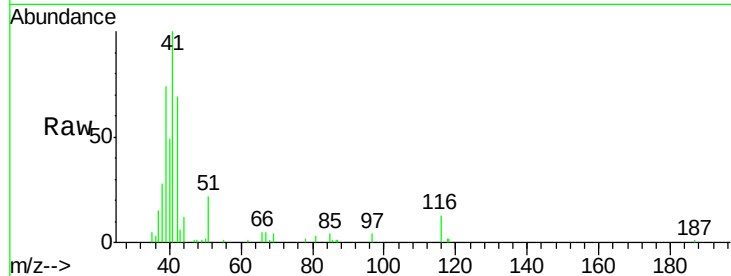
#9
 Propene
 Concen: 0.762 ppbv
 RT: 3.03 min Scan# 28
 Delta R.T. 0.01 min
 Lab File: VL033617.D
 Acq: 1 May 2019 13:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion: 41 Resp: 28526
 Ion Ratio Lower Upper
 41 100
 42 64.3 66.0 99.0#

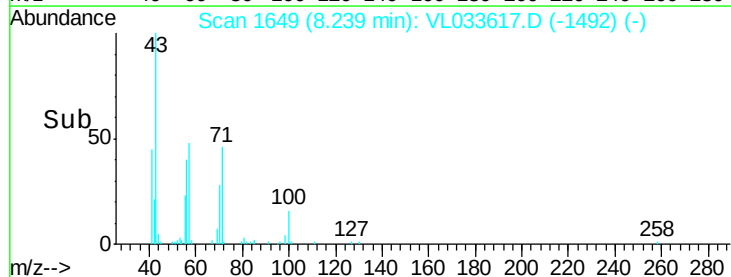
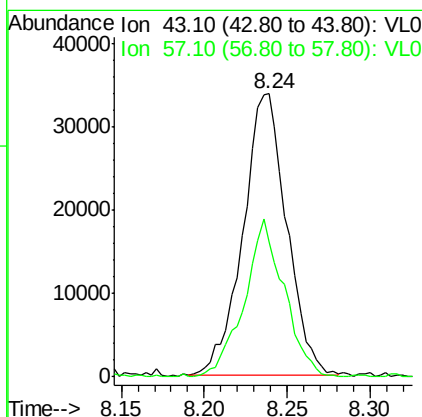
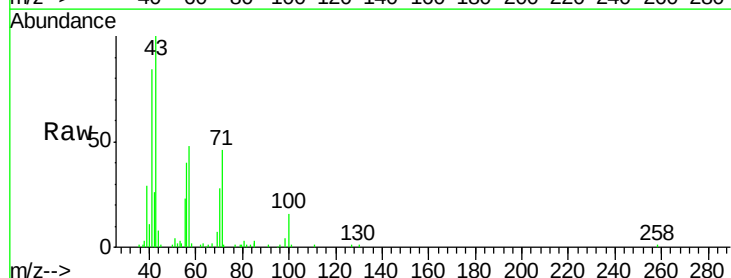
Manual Integrations
 APPROVED

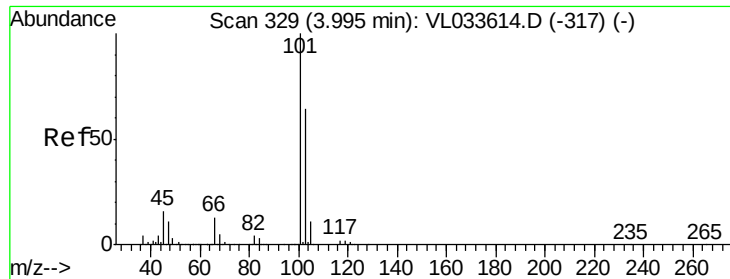
MMDadoda
 5/2/2019 4:03:58 PM



#10
 Heptane
 Concen: 0.446 ppbv
 RT: 8.24 min Scan# 1649
 Delta R.T. 0.00 min
 Lab File: VL033617.D
 Acq: 1 May 2019 13:52

Tgt Ion: 43 Resp: 61776
 Ion Ratio Lower Upper
 43 100
 57 51.4 40.3 60.5





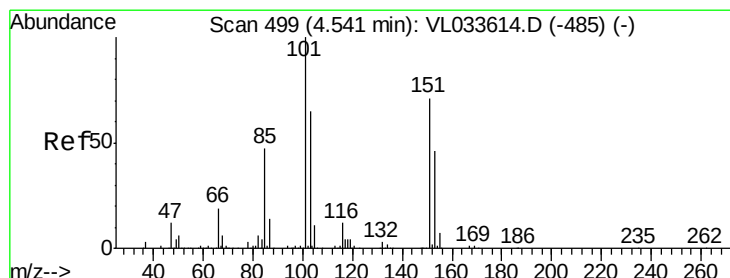
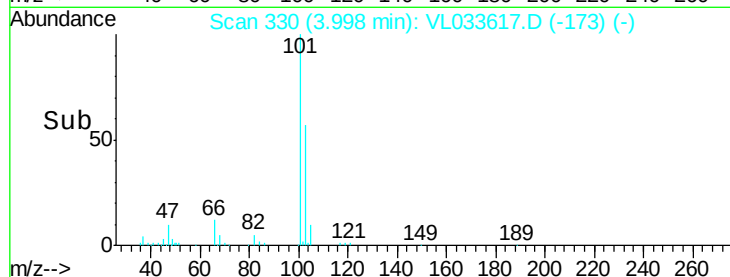
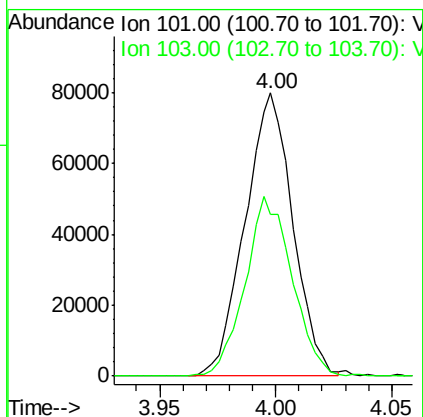
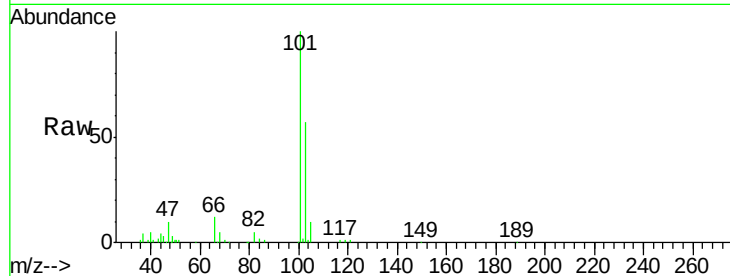
#11
 Trichlorofluoromethane
 Concen: 0.585 ppbv
 RT: 4.00 min Scan# 330
 Delta R.T. 0.00 min
 Lab File: VL033617.D
 Acq: 1 May 2019 13:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
101	100		
103	56.8	51.2	76.8

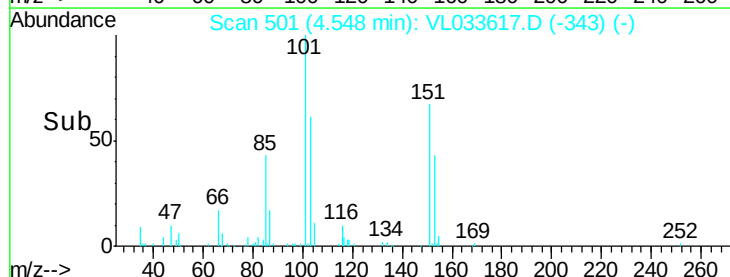
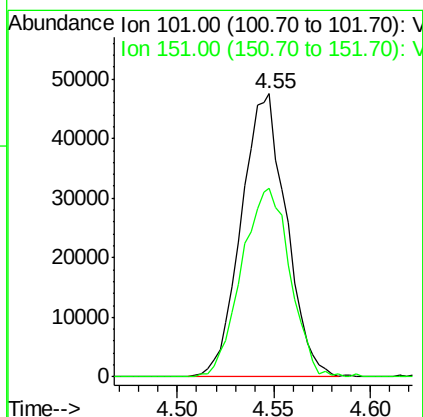
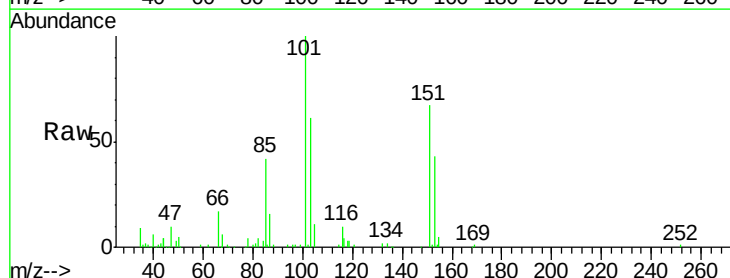
Manual Integrations
 APPROVED

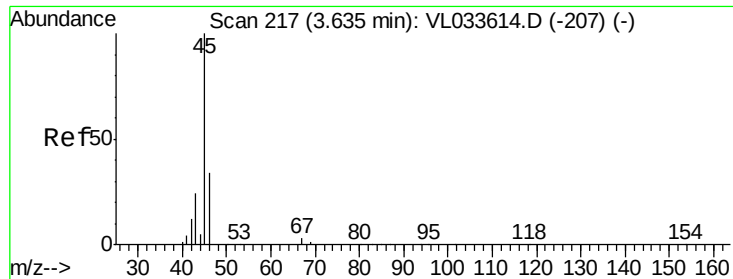
MMDadoda
 5/2/2019 4:03:58 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.574 ppbv
 RT: 4.55 min Scan# 501
 Delta R.T. 0.01 min
 Lab File: VL033617.D
 Acq: 1 May 2019 13:52

Tgt Ion	Ratio	Lower	Upper
101	100		
151	71.4	59.2	88.8





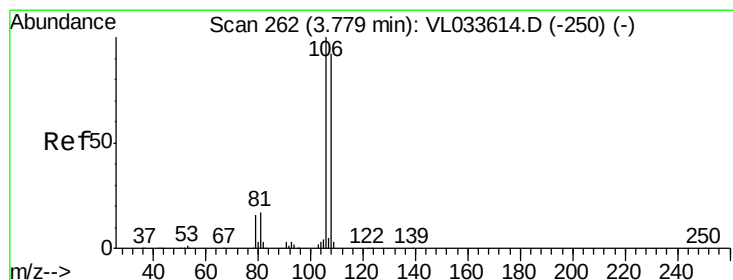
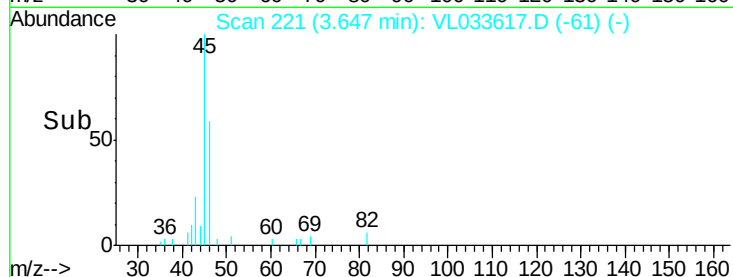
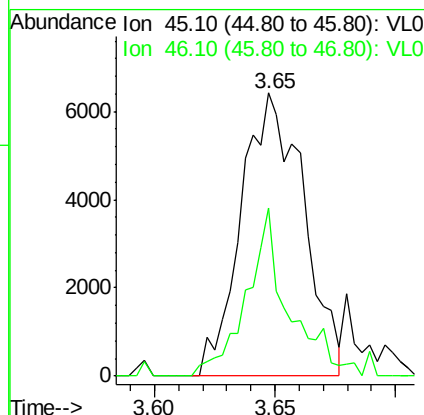
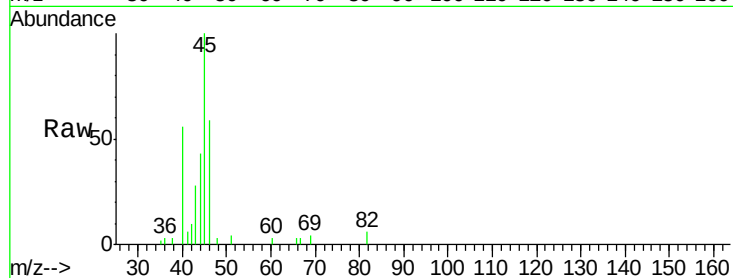
#13
Ethanol
Concen: 0.678 ppbv m
RT: 3.65 min Scan# 221
Delta R.T. 0.01 min
Lab File: VL033617.D
Acq: 1 May 2019 13:52

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	45	46	Ratio	Lower	Upper
11510	100	0.0			
				14.6	58.2#

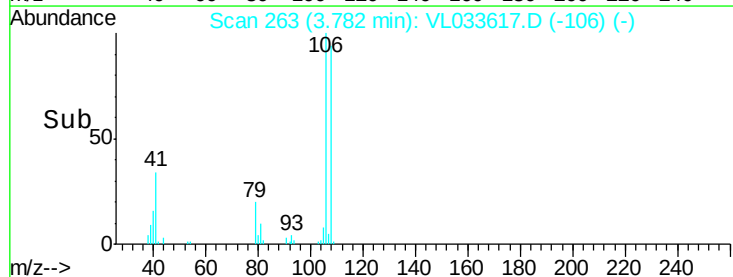
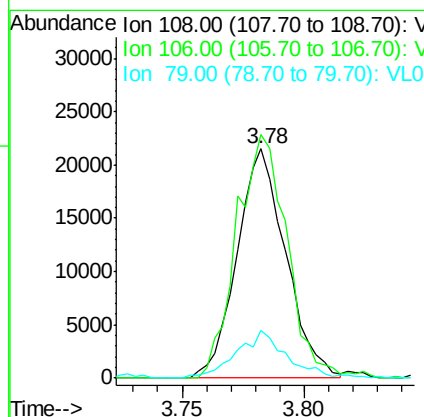
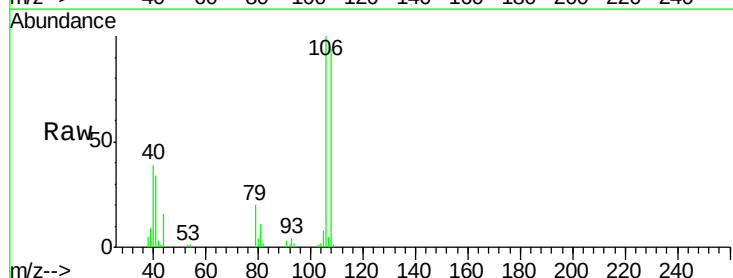
Manual Integrations
APPROVED

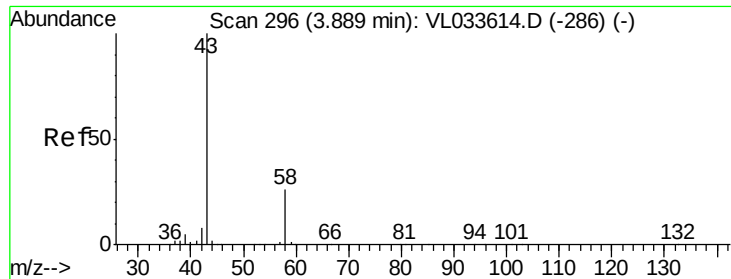
MMDadoda
5/2/2019 4:03:58 PM



#14
Bromoethene
Concen: 0.540 ppbv
RT: 3.78 min Scan# 263
Delta R.T. 0.00 min
Lab File: VL033617.D
Acq: 1 May 2019 13:52

Tgt Ion	108	106	79	Ratio	Lower	Upper
29786	100	110.8	22.1			
					84.6	127.0
					14.4	21.6#





#15

Acetone

Concen: 0.607 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.01 min

Lab File: VL033617.D

Acq: 1 May 2019 13:52

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 43 Resp: 80706

Ion Ratio Lower Upper

43 100

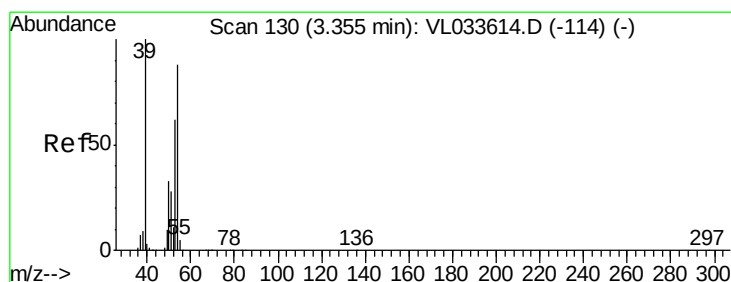
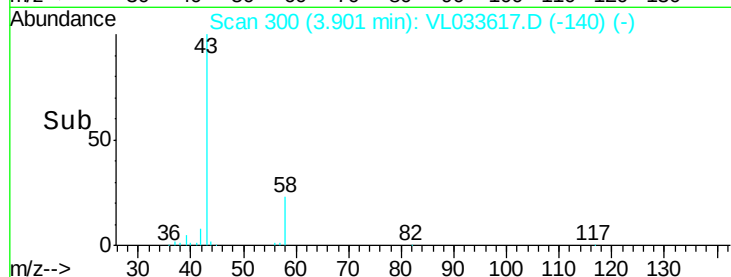
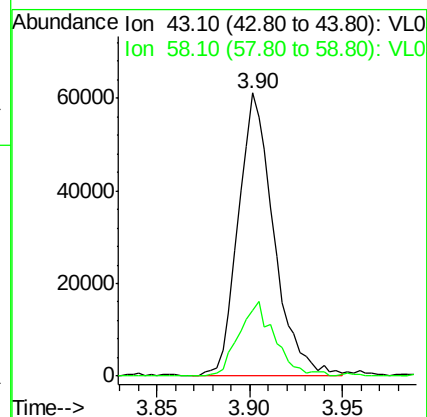
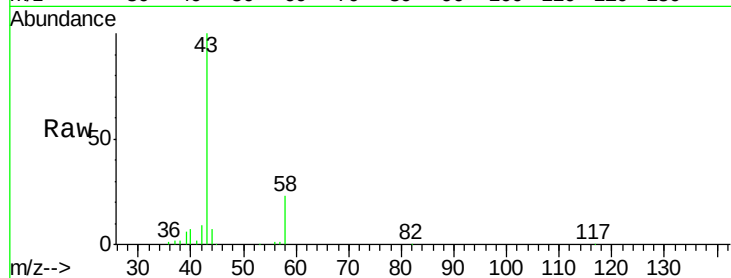
58 27.6 21.2 31.8

Manual Integrations

APPROVED

MMDadoda

5/2/2019 4:03:58 PM



#16

1,3-Butadiene

Concen: 0.516 ppbv

RT: 3.35 min Scan# 130

Delta R.T. 0.00 min

Lab File: VL033617.D

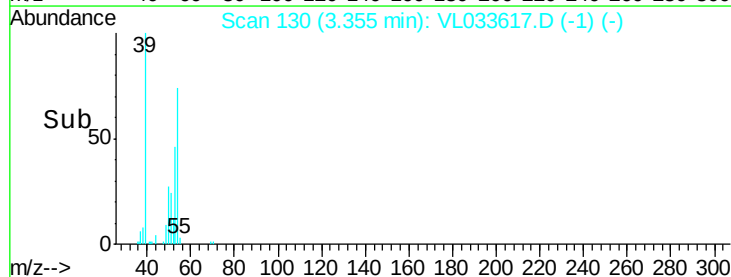
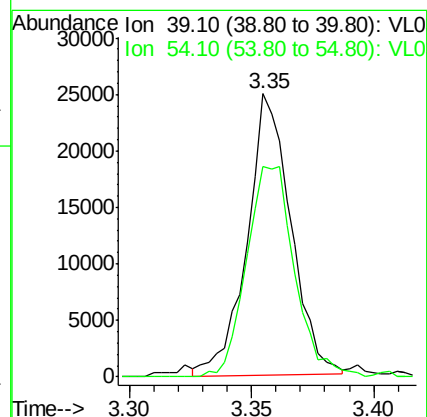
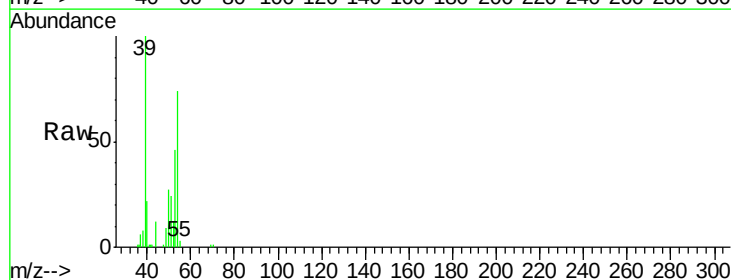
Acq: 1 May 2019 13:52

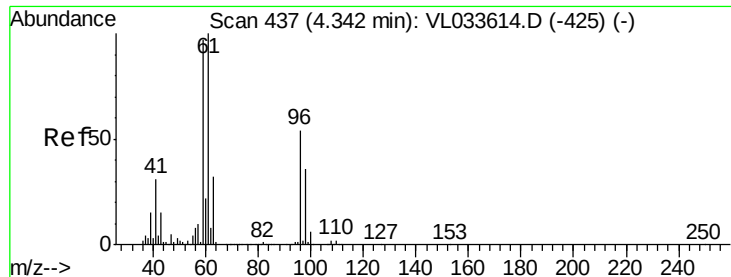
Tgt Ion: 39 Resp: 30919

Ion Ratio Lower Upper

39 100

54 82.9 68.4 102.6





#17

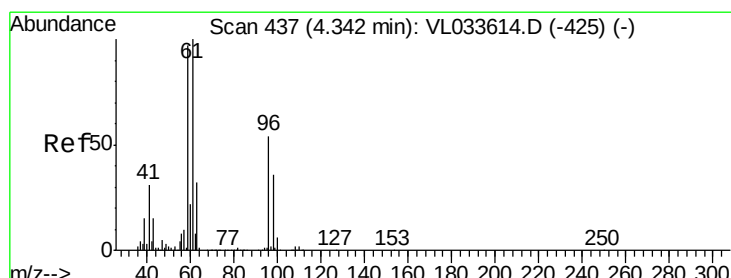
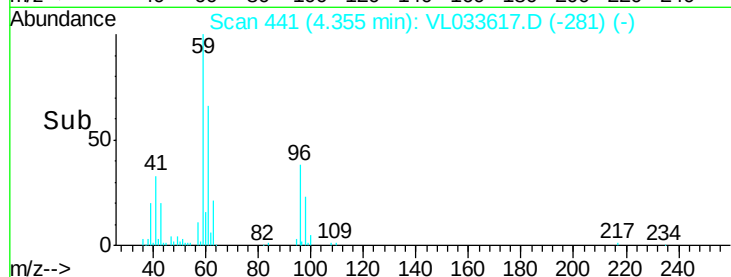
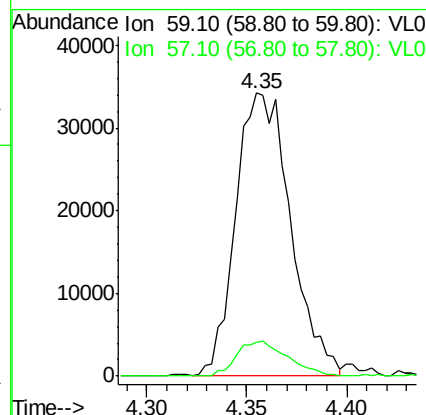
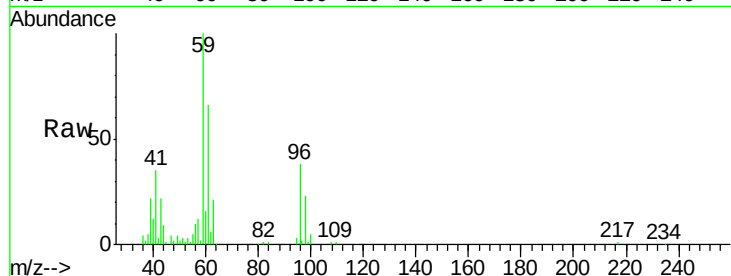
tert-Butyl alcohol
Concen: 0.571 ppbv
RT: 4.35 min Scan# 441
Delta R.T. 0.01 min
Lab File: VL033617.D
Acq: 1 May 2019 13:52

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	59	Resp	65592
Ion	Ratio	Lower	Upper
59	100		
57	11.6	8.4	12.6

Manual Integrations
APPROVED

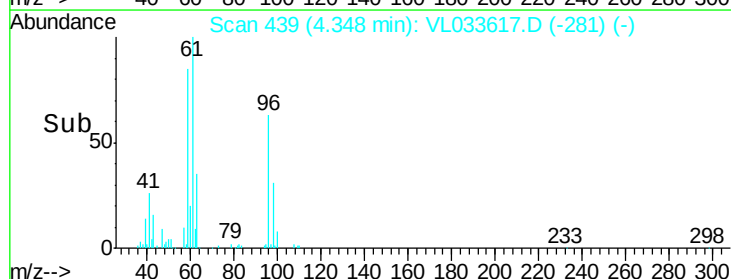
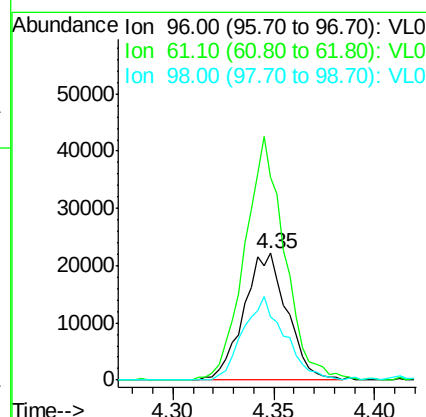
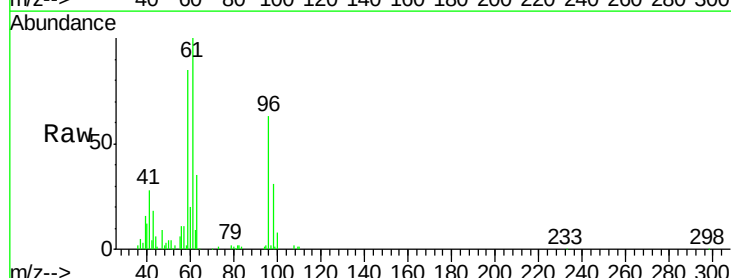
MMDadoda
5/2/2019 4:03:58 PM

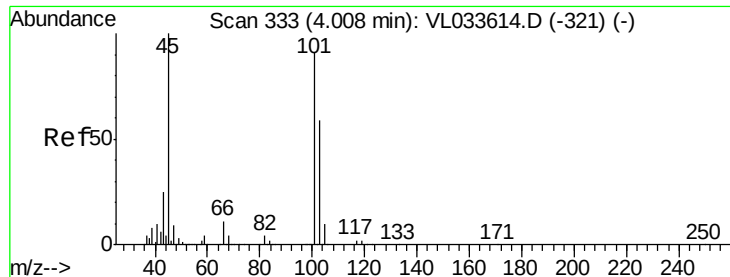


#18

1,1-Dichloroethene
Concen: 0.576 ppbv
RT: 4.35 min Scan# 439
Delta R.T. 0.01 min
Lab File: VL033617.D
Acq: 1 May 2019 13:52

Tgt Ion	96	Resp	33618
Ion	Ratio	Lower	Upper
96	100		
61	159.9	147.3	220.9
98	50.2	53.6	80.4#





#19

Isopropyl Alcohol

Concen: 0.575 ppbv

RT: 4.02 min Scan# 336

Delta R.T. 0.01 min

Lab File: VL033617.D

Acq: 1 May 2019 13:52

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 45 Resp: 52529

Ion Ratio Lower Upper

45 100

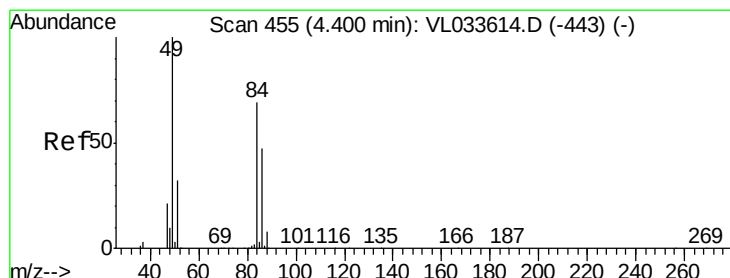
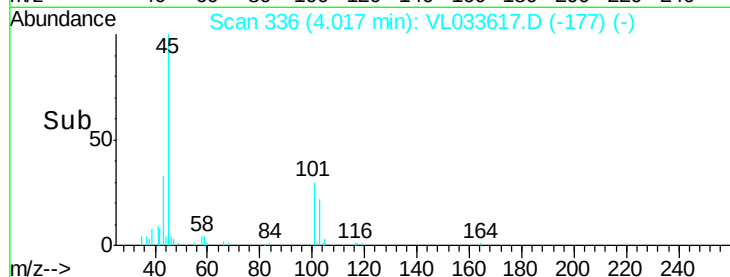
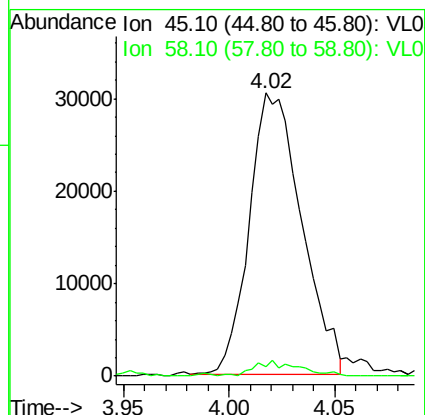
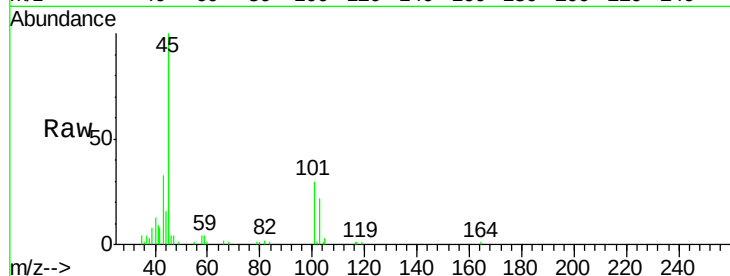
58 5.1 1.8 2.6#

Manual Integrations

APPROVED

MMDadoda

5/2/2019 4:03:58 PM



#20

Methylene Chloride

Concen: 0.604 ppbv

RT: 4.40 min Scan# 456

Delta R.T. 0.00 min

Lab File: VL033617.D

Acq: 1 May 2019 13:52

Tgt Ion: 84 Resp: 31325

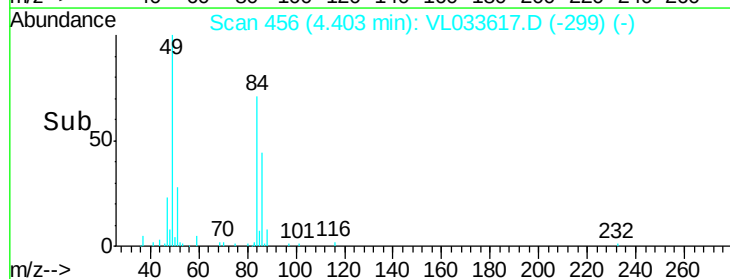
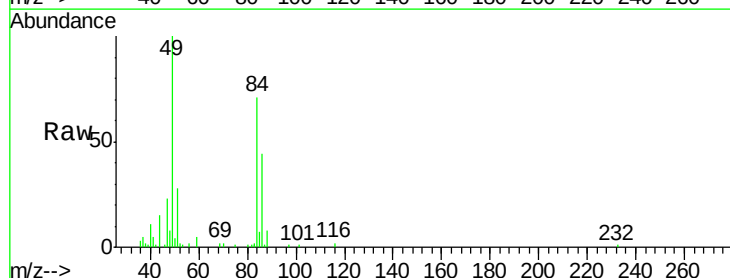
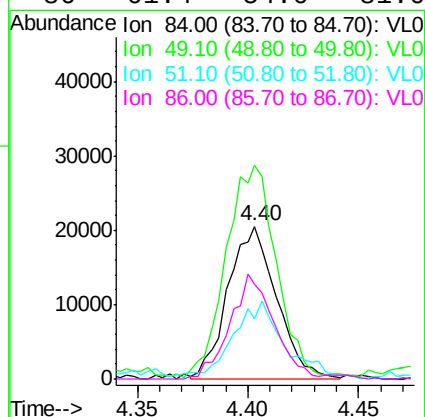
Ion Ratio Lower Upper

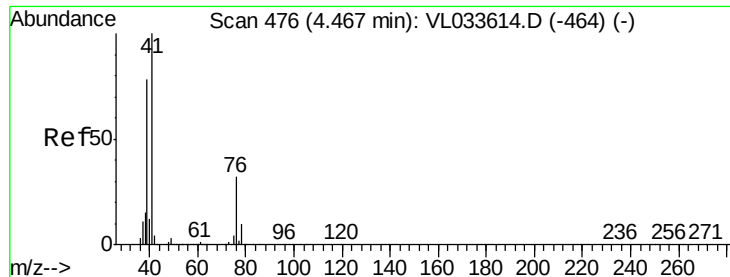
84 100

49 138.5 116.2 174.2

51 36.9 37.0 55.6#

86 61.4 54.0 81.0





#21

Allvl Chloride

Concen: 0.533 ppbv

RT: 4.47 min Scan# 478

Delta R.T. 0.01 min

Lab File: VL033617.D

Acq: 1 May 2019 13:52

Instrument :

MSVOA_L

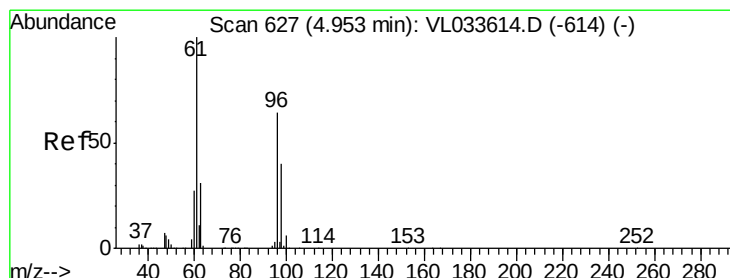
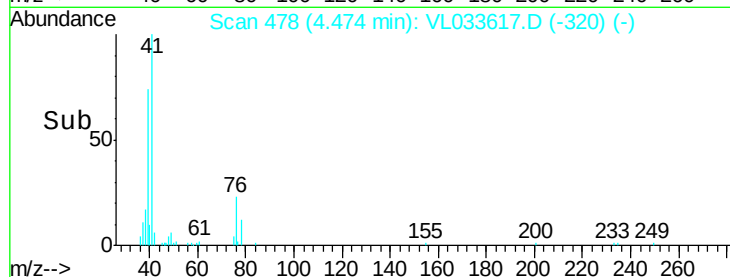
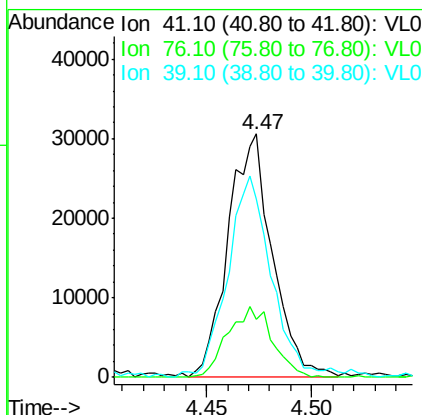
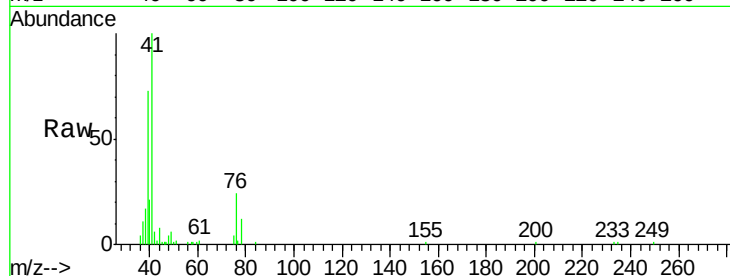
ClientSampleId :

VSTDIC0.5

Tot Ion:	41	Resp:	44593
Ion Ratio	Lower	Upper	
41	100		
76	29.3	25.0	37.6
39	84.1	64.6	96.8

Manual Integrations
APPROVED

MMDadoda
5/2/2019 4:03:58 PM



#22

trans-1,2-Dichloroethene

Concen: 0.537 ppbv

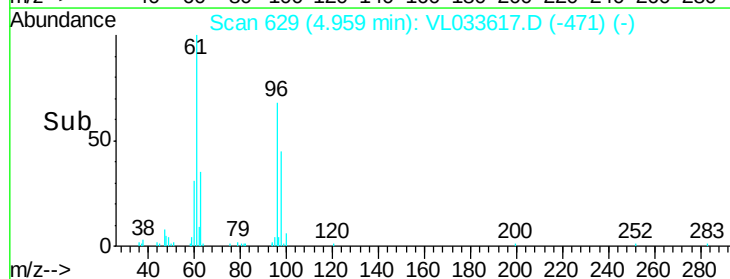
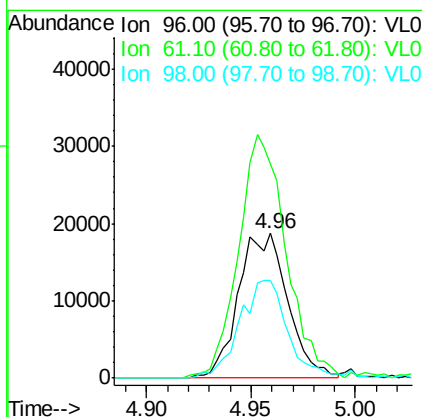
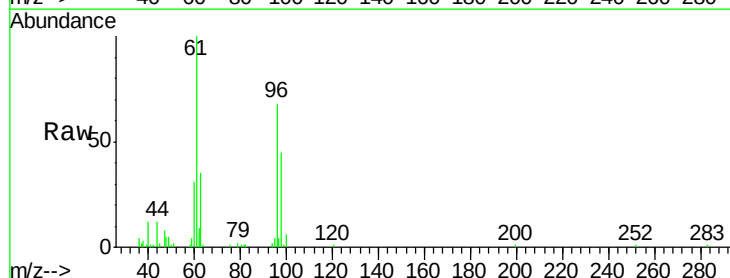
RT: 4.96 min Scan# 629

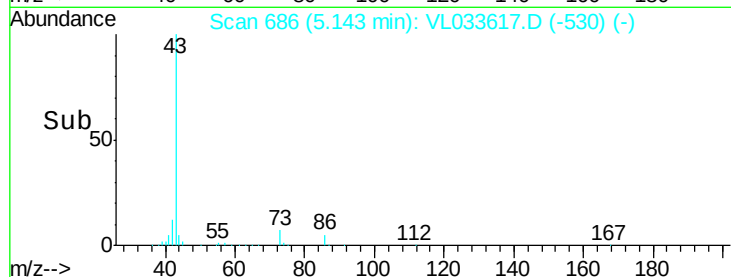
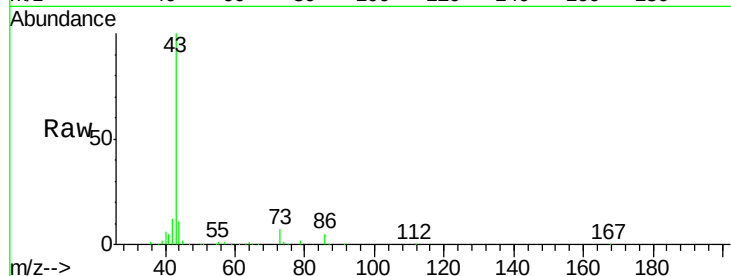
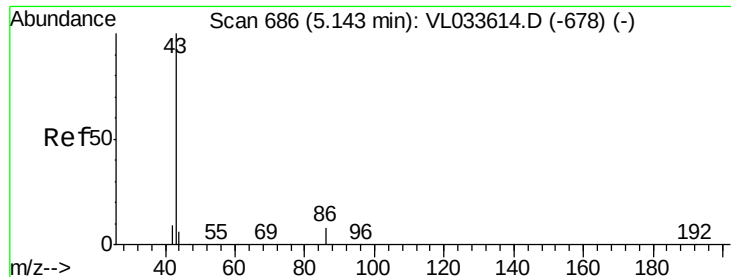
Delta R.T. 0.01 min

Lab File: VL033617.D

Acq: 1 May 2019 13:52

Tgt Ion:	96	Resp:	30706
Ion Ratio	Lower	Upper	
96	100		
61	147.7	124.9	187.3
98	67.0	50.5	75.7





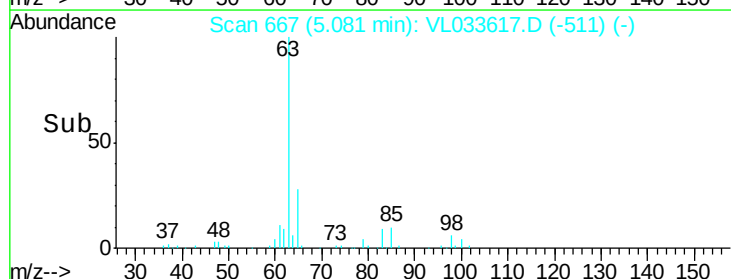
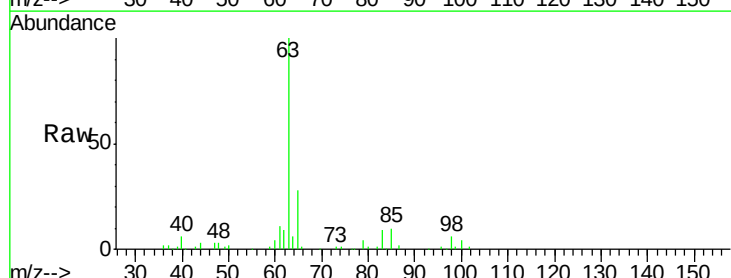
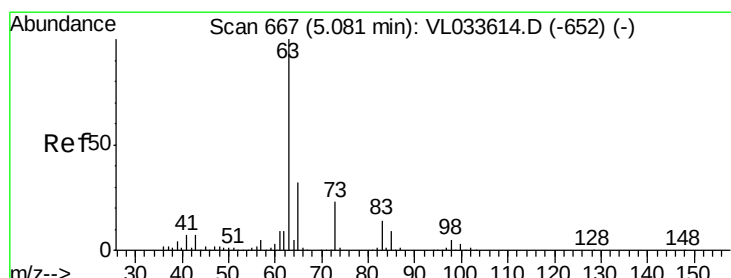
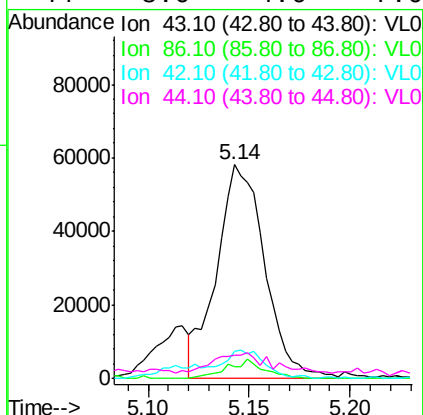
#23
Vinyl Acetate
Concen: 0.485 ppbv
RT: 5.14 min Scan# 686
Delta R.T. 0.00 min
Lab File: VL033617.D
Acq: 1 May 2019 13:52

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100		96000		
86	5.3	5.8	8.8#		
42	12.2	7.8	11.8#		
44	8.0	4.6	7.0#		

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

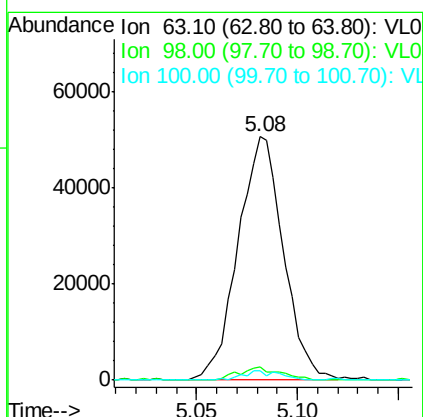
Manual Integrations
APPROVED

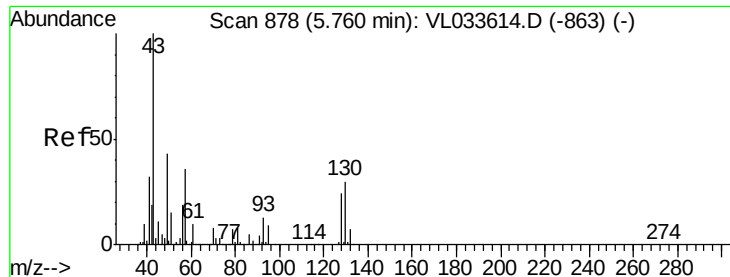
MMDadoda
5/2/2019 4:03:58 PM



#24
1,1-Dichloroethane
Concen: 0.541 ppbv
RT: 5.08 min Scan# 667
Delta R.T. 0.00 min
Lab File: VL033617.D
Acq: 1 May 2019 13:52

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
63	100		79726		
98	5.6	2.4	7.2		
100	3.9	1.4	4.0		





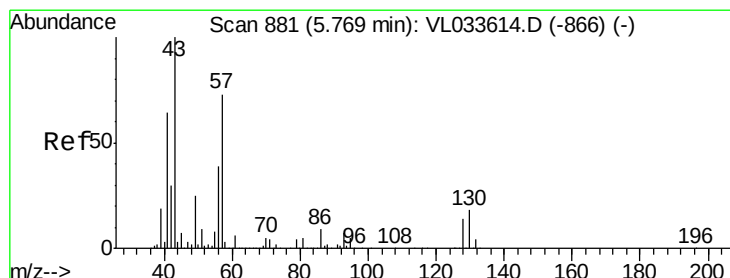
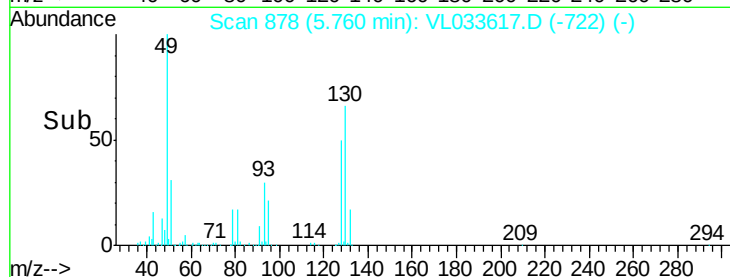
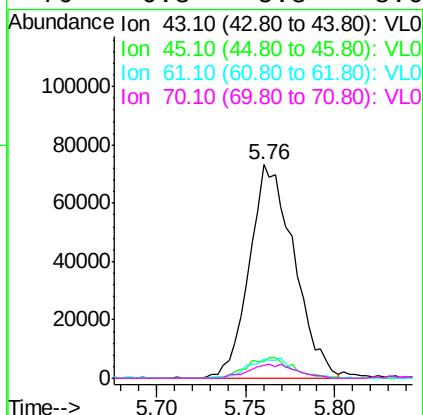
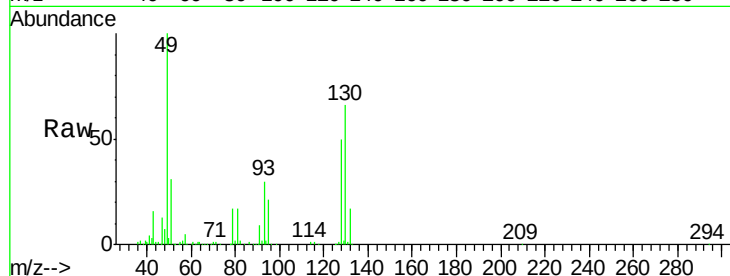
#25
Ethyl Acetate
Concen: 0.507 ppbv
RT: 5.76 min Scan# 878
Delta R.T. 0.00 min
Lab File: VL033617.D
Acq: 1 May 2019 13:52

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	10.0	8.1	12.1	
61	9.3	7.5	11.3	
70	6.8	5.8	8.6	

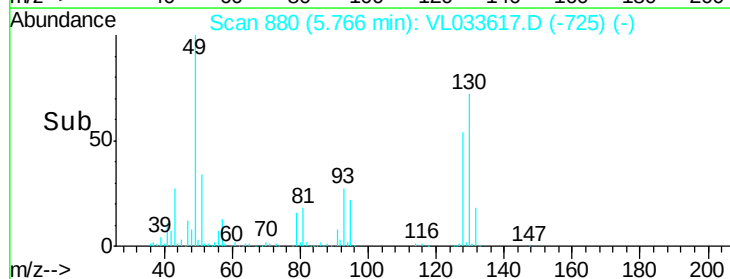
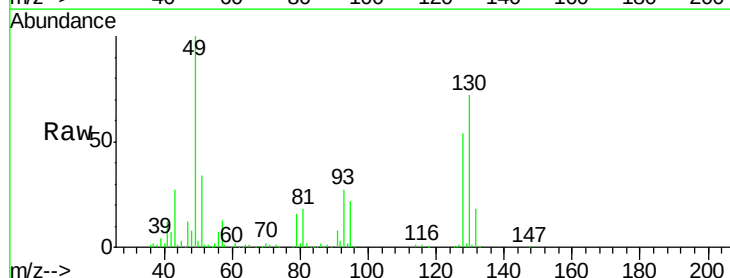
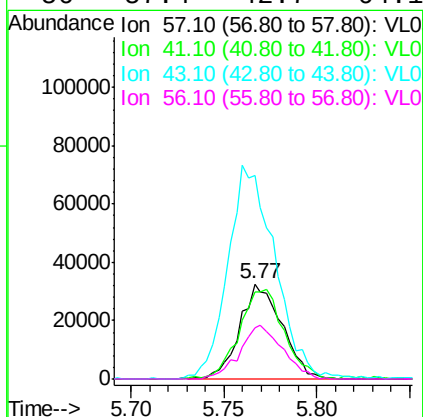
Manual Integrations
APPROVED

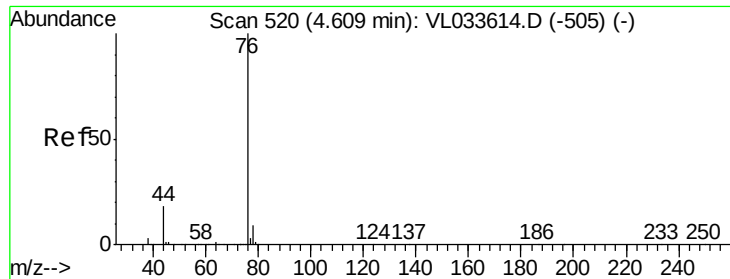
MMDadoda
5/2/2019 4:03:58 PM



#26
Hexane
Concen: 0.486 ppbv
RT: 5.77 min Scan# 880
Delta R.T. -0.00 min
Lab File: VL033617.D
Acq: 1 May 2019 13:52

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	101.4	70.6	106.0	
43	251.5	186.0	279.0	
56	57.4	42.7	64.1	





#27

Carbon Disulfide

Concen: 0.473 ppbv

RT: 4.62 min Scan# 523

Delta R.T. 0.01 min

Lab File: VL033617.D

Acq: 1 May 2019 13:52

Instrument :

MSVOA_L

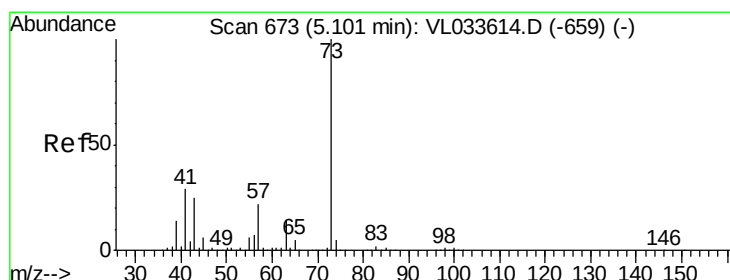
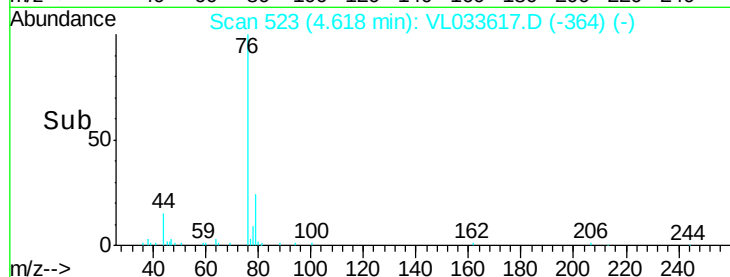
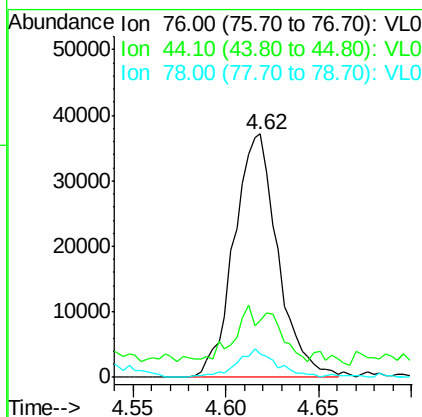
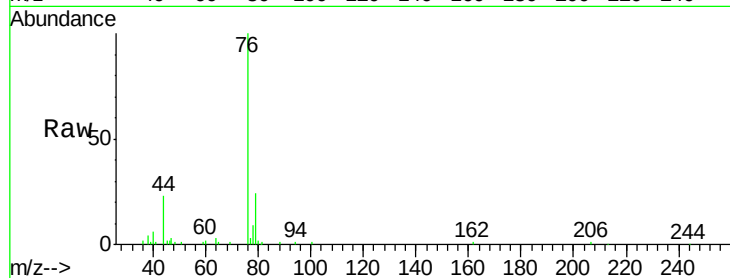
ClientSampleId :

VSTDIC0.5

Tot Ion:	76	Resp:	60881
Ion	Ratio	Lower	Upper
76	100		
44	27.4	14.3	21.5#
78	11.2	7.5	11.3

Manual Integrations
APPROVED

MMDadoda
5/2/2019 4:03:58 PM



#28

Methyl tert-Butyl Ether

Concen: 0.479 ppbv

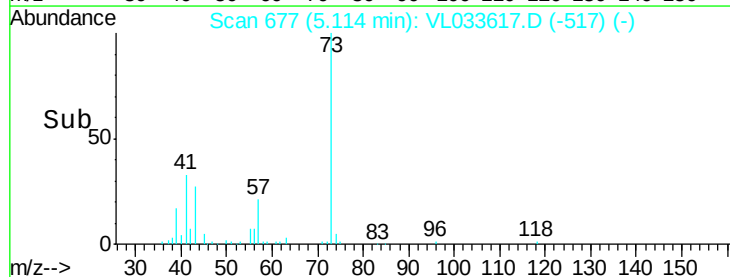
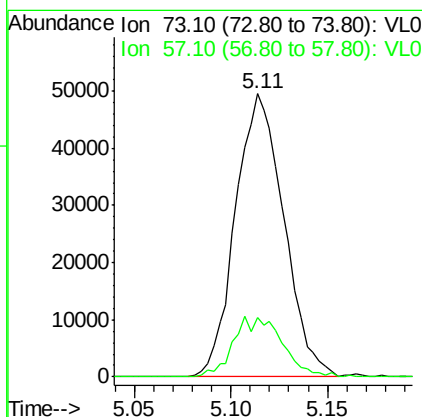
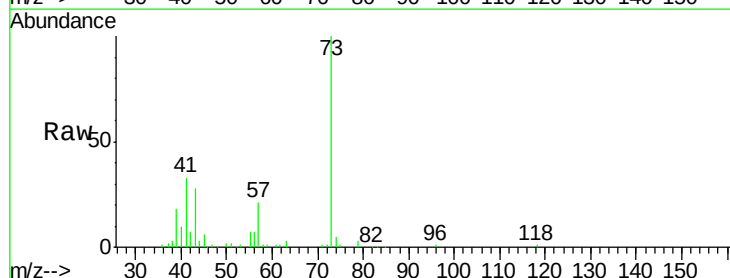
RT: 5.11 min Scan# 677

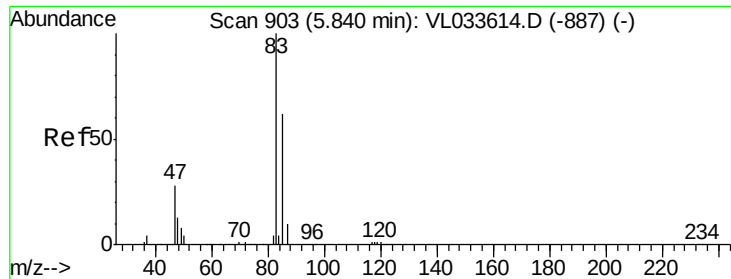
Delta R.T. 0.01 min

Lab File: VL033617.D

Acq: 1 May 2019 13:52

Tgt Ion:	73	Resp:	85908
Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.8	26.8





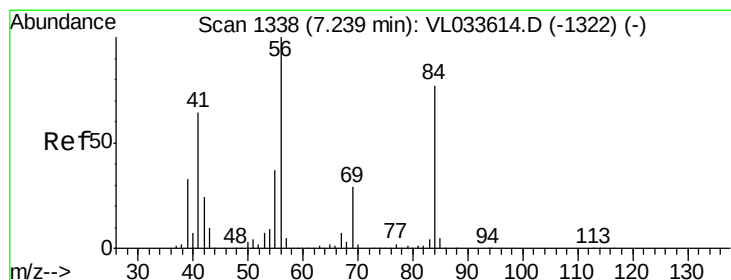
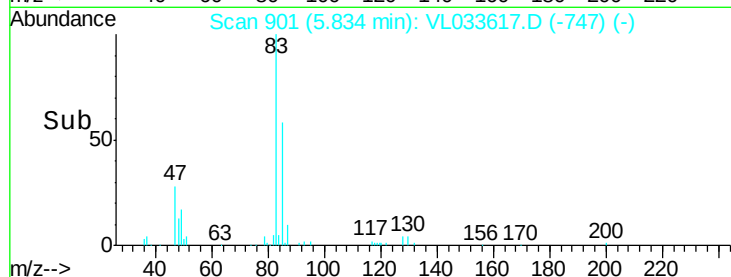
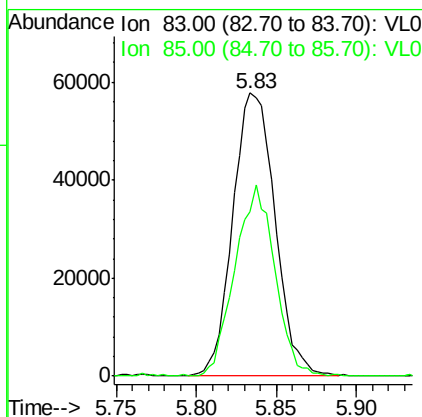
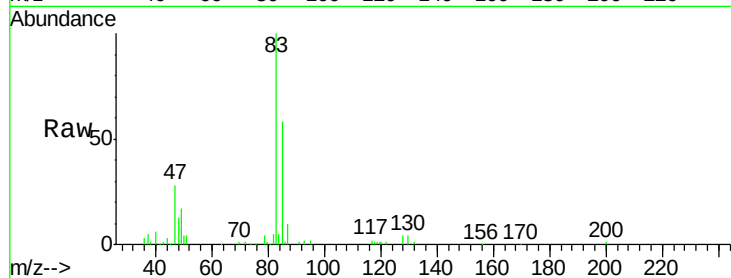
#29
Chloroform
Concen: 0.533 ppbv
RT: 5.83 min Scan# 901
Delta R.T. -0.01 min
Lab File: VL033617.D
Acq: 1 May 2019 13:52

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	83	Resp	103890
Ion Ratio	100	Lower	Upper
83	100		
85	57.9	49.9	74.9

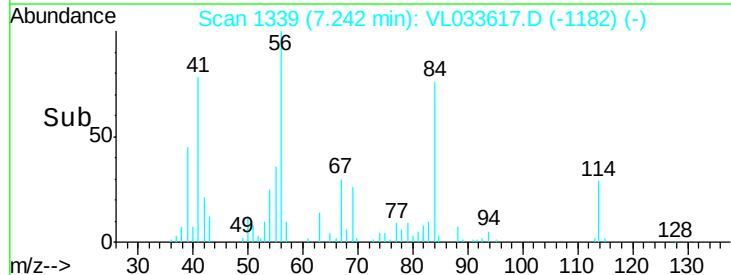
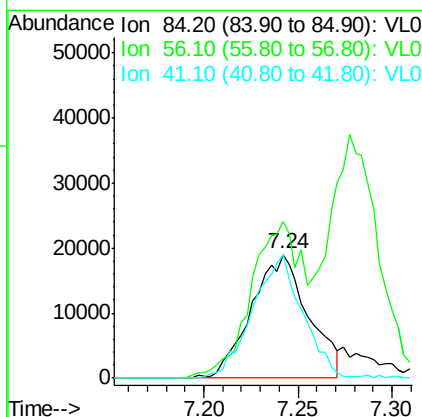
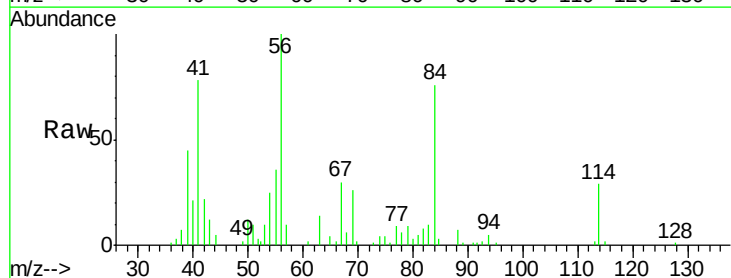
Manual Integrations
APPROVED

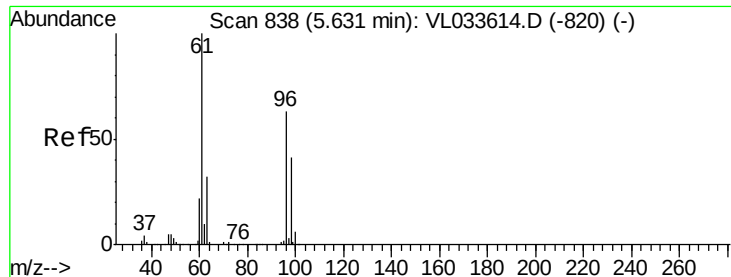
MMDadoda
5/2/2019 4:03:58 PM



#30
Cyclohexane
Concen: 0.434 ppbv m
RT: 7.24 min Scan# 1339
Delta R.T. 0.00 min
Lab File: VL033617.D
Acq: 1 May 2019 13:52

Tgt Ion	84	Resp	39986
Ion Ratio	100	Lower	Upper
84	100		
56	0.0	108.4	162.6#
41	0.0	67.0	100.4#





#31

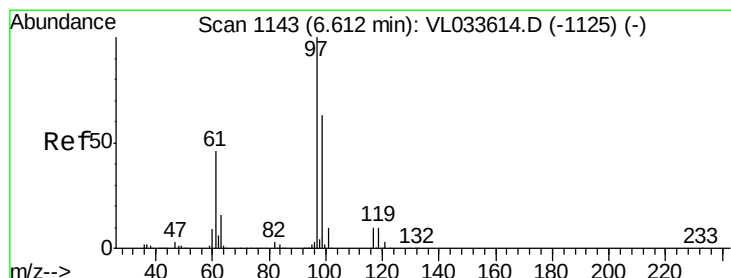
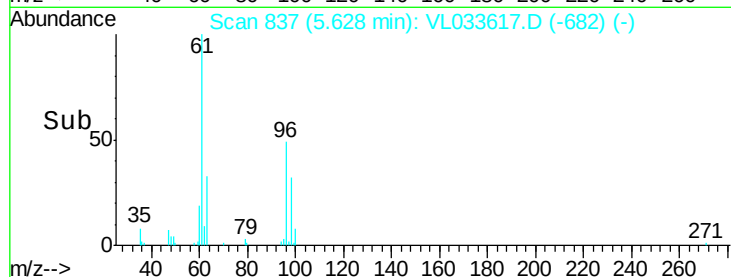
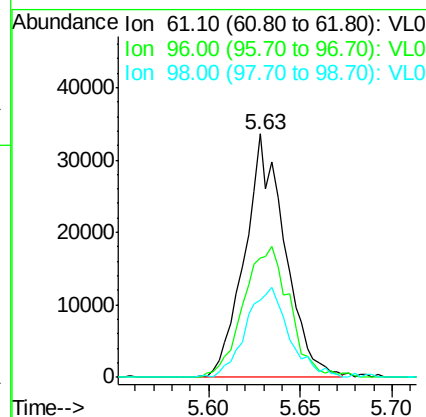
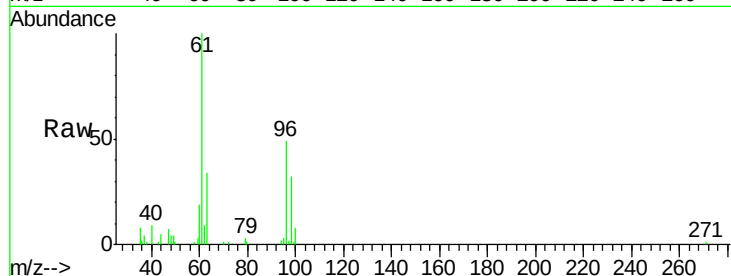
cis-1,2-Dichloroethene
 Concen: 0.477 ppbv
 RT: 5.63 min Scan# 837
 Delta R.T. -0.00 min
 Lab File: VL033617.D
 Acq: 1 May 2019 13:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
61	100		
96	49.2	50.6	76.0#
98	31.9	32.8	49.2#

Manual Integrations
 APPROVED

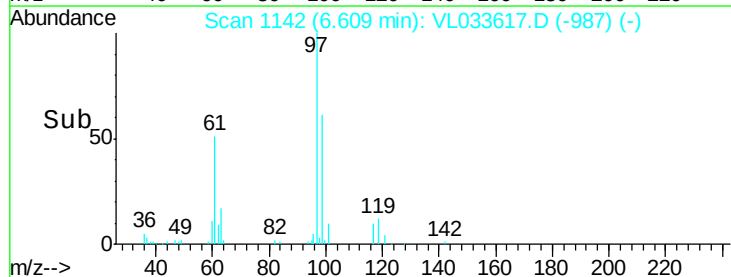
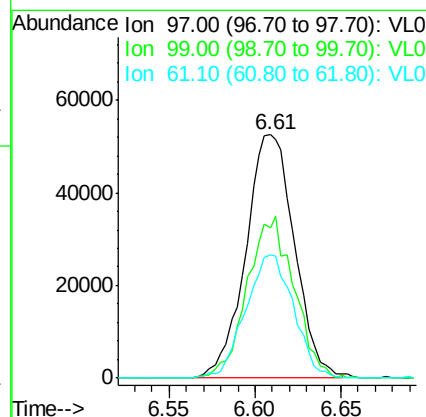
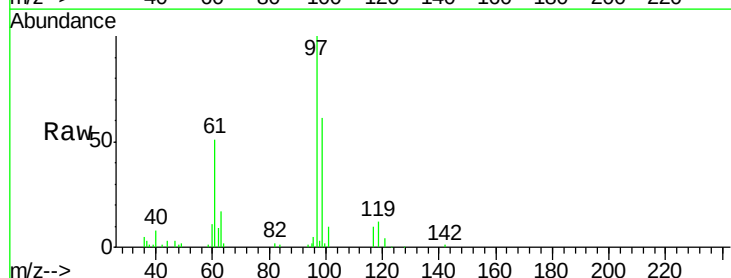
MMDadoda
 5/2/2019 4:03:58 PM

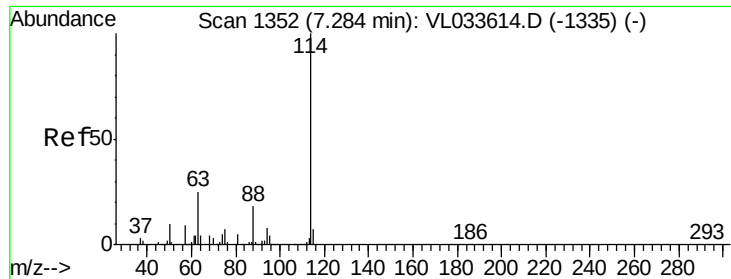


#32

1,1,1-Trichloroethane
 Concen: 0.505 ppbv
 RT: 6.61 min Scan# 1142
 Delta R.T. -0.00 min
 Lab File: VL033617.D
 Acq: 1 May 2019 13:52

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.9	77.9
61	49.9	38.2	57.2





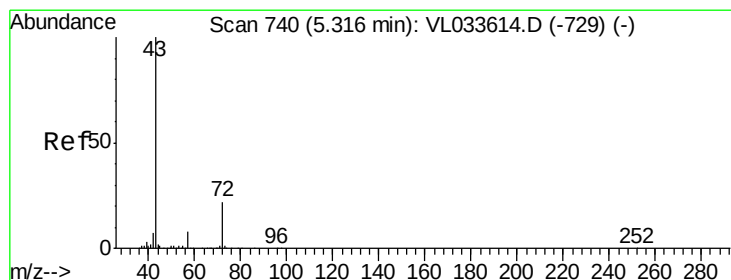
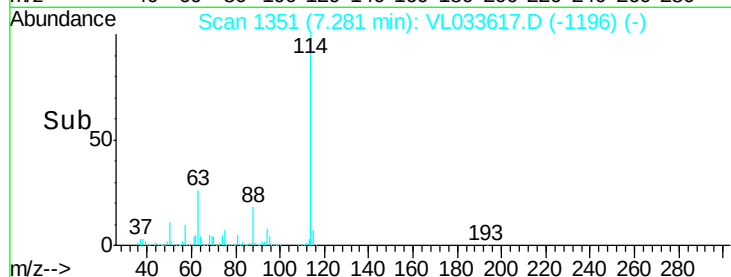
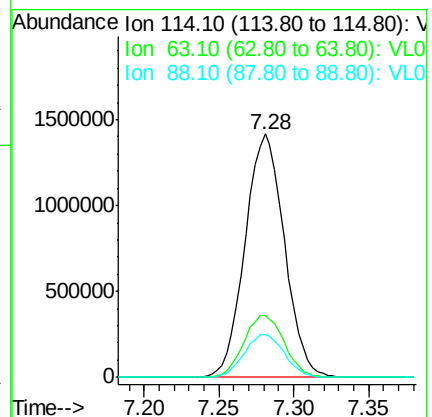
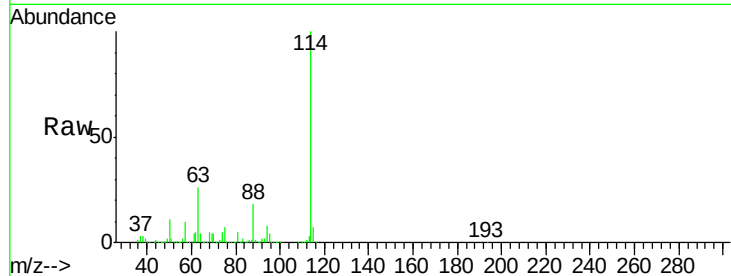
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1351
 Delta R.T. -0.00 min
 Lab File: VL033617.D
 Acq: 1 May 2019 13:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.3	21.1	31.7
88	18.0	14.2	21.4

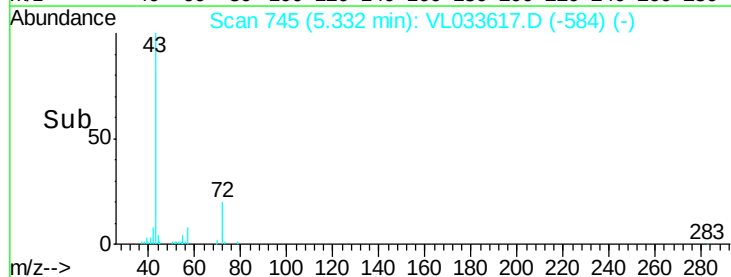
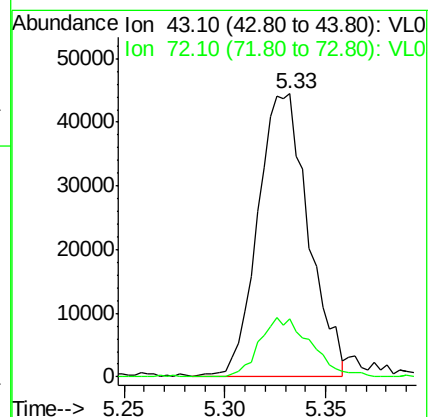
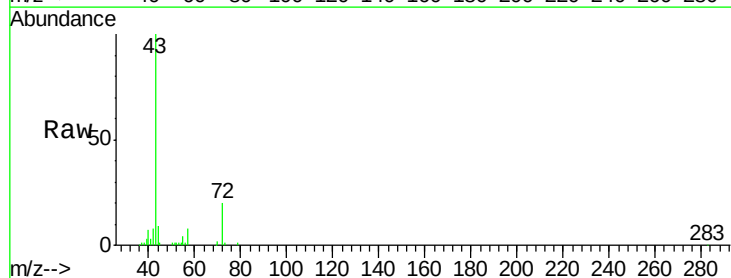
Manual Integrations
 APPROVED

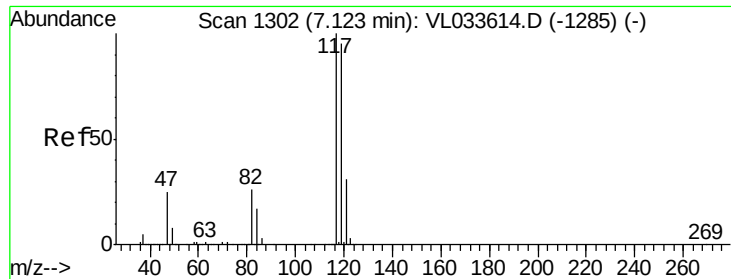
MMDadoda
 5/2/2019 4:03:58 PM



#34
 2-Butanone
 Concen: 0.488 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. 0.02 min
 Lab File: VL033617.D
 Acq: 1 May 2019 13:52

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.1	17.8	26.8





#35

Carbon Tetrachloride

Concen: 0.486 ppbv

RT: 7.12 min Scan# 1302

Delta R.T. 0.00 min

Lab File: VL033617.D

Acq: 1 May 2019 13:52

Instrument :

MSVOA_L

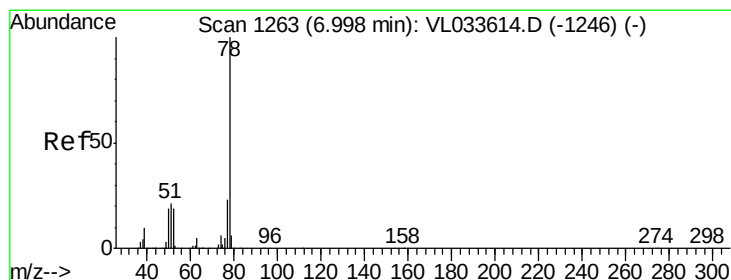
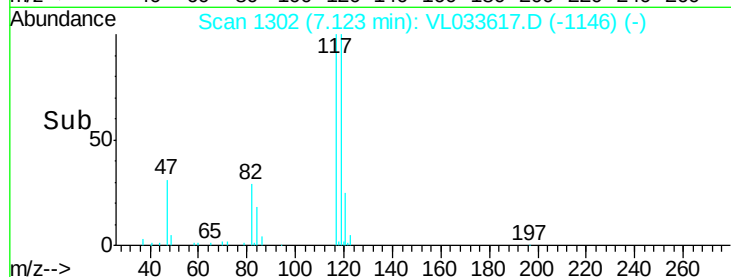
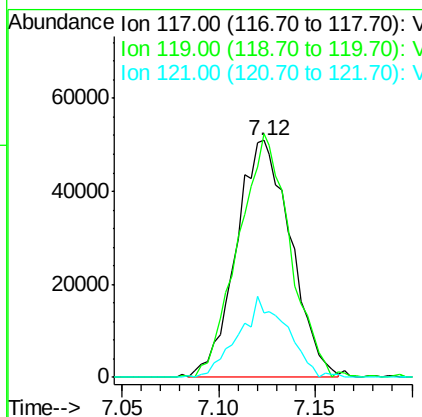
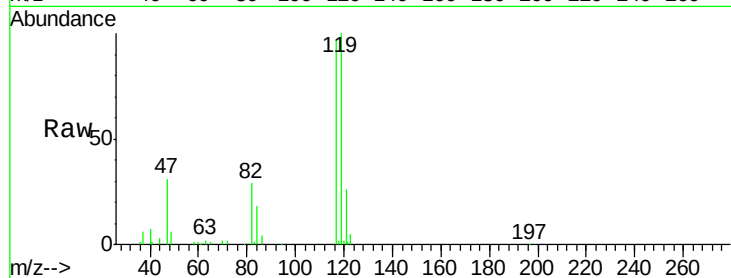
ClientSampleId :

VSTDIC0.5

Tot Ion:	117	Resp:	99911
Ion Ratio	Lower	Upper	
117	100		
119	101.8	76.2	114.4
121	27.2	24.9	37.3

Manual Integrations
APPROVED

MMDadoda
5/2/2019 4:03:58 PM



#36

Benzene

Concen: 0.486 ppbv

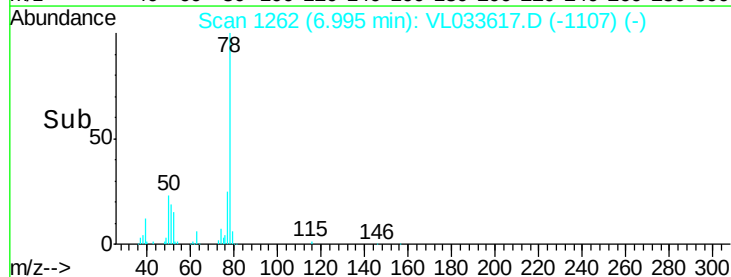
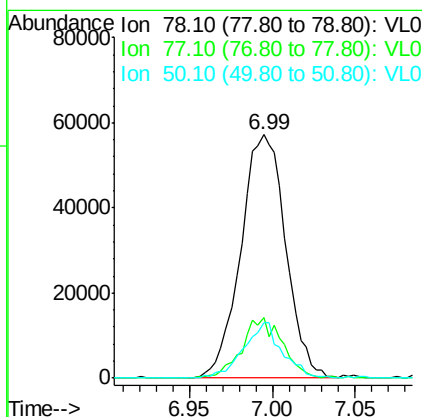
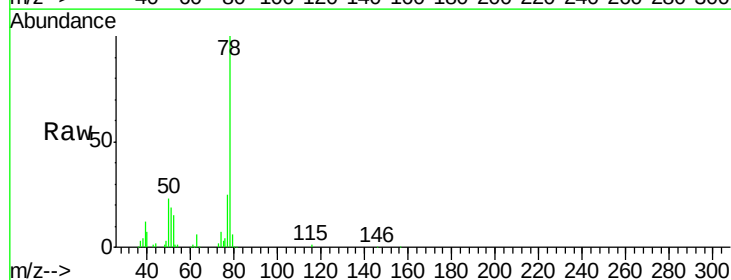
RT: 6.99 min Scan# 1262

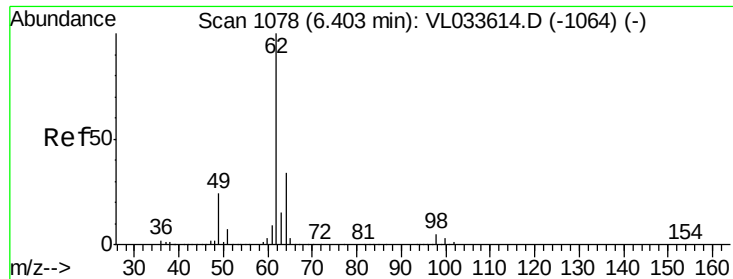
Delta R.T. -0.00 min

Lab File: VL033617.D

Acq: 1 May 2019 13:52

Tgt Ion:	78	Resp:	107491
Ion Ratio	Lower	Upper	
78	100		
77	24.7	18.1	27.1
50	22.9	15.1	22.7#





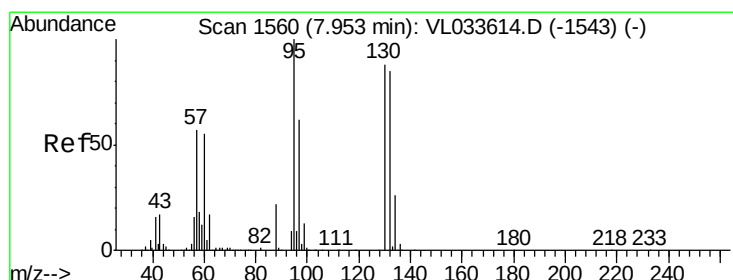
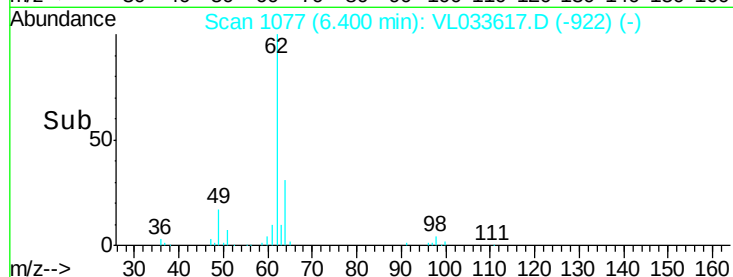
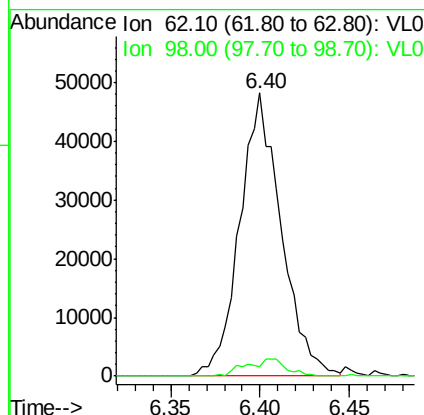
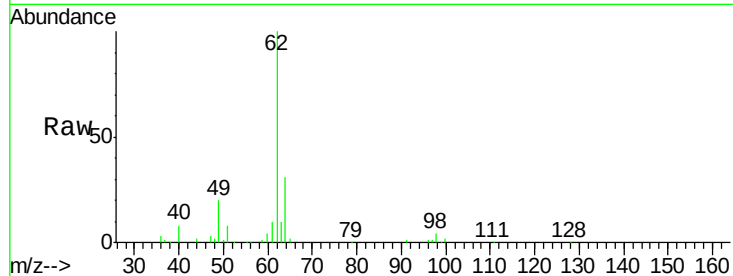
#37
1,2-Dichloroethane
Concen: 0.533 ppbv
RT: 6.40 min Scan# 1077
Delta R.T. -0.00 min
Lab File: VL033617.D
Acq: 1 May 2019 13:52

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.8	4.4	6.6

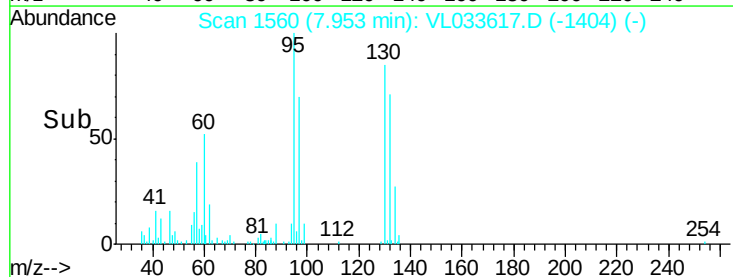
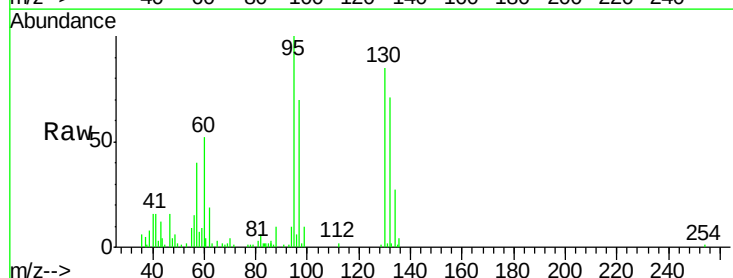
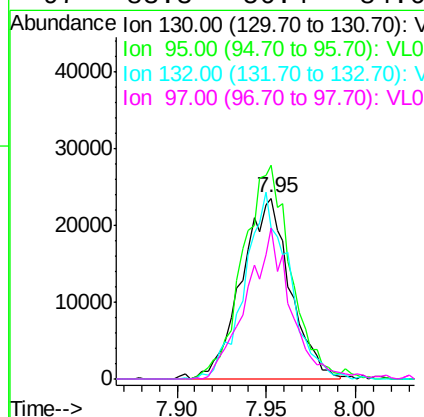
Manual Integrations
APPROVED

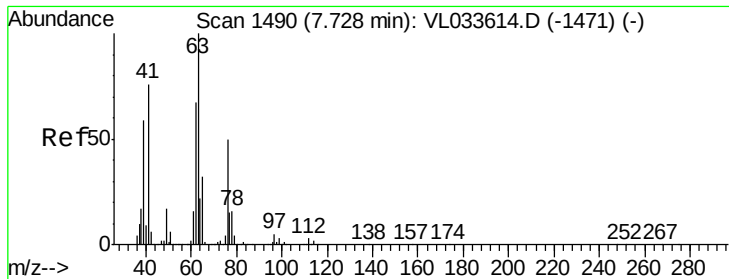
MMDadoda
5/2/2019 4:03:58 PM



#38
Trichloroethene
Concen: 0.504 ppbv
RT: 7.95 min Scan# 1560
Delta R.T. 0.00 min
Lab File: VL033617.D
Acq: 1 May 2019 13:52

Tgt Ion	Ratio	Lower	Upper
130	100		
95	125.2	91.2	136.8
132	85.6	77.8	116.8
97	83.3	56.4	84.6





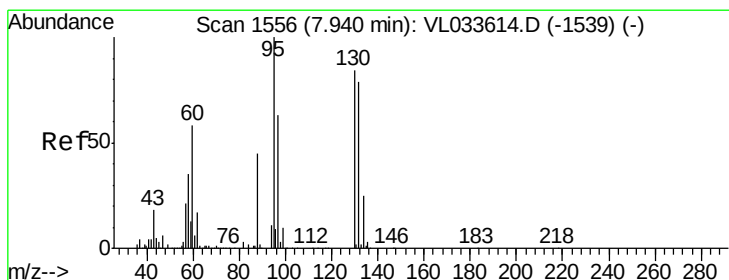
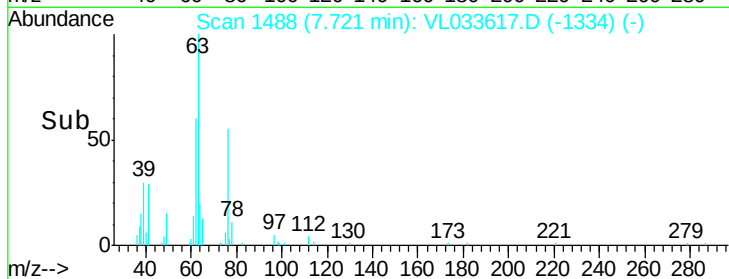
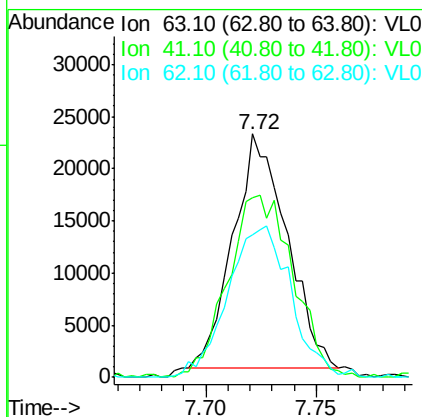
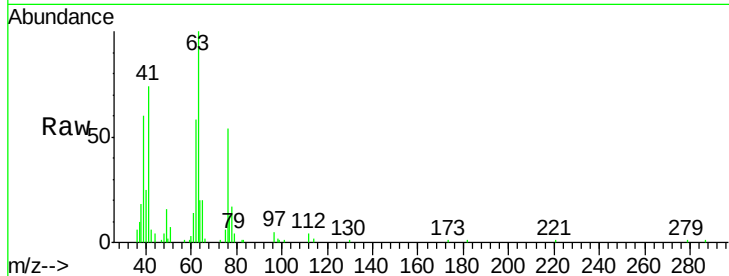
#39
 1,2-Dichloropropane
 Concen: 0.456 ppbv
 RT: 7.72 min Scan# 1488
 Delta R.T. -0.01 min
 Lab File: VL033617.D
 Acq: 1 May 2019 13:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion:	63	Resp:	38038
Ion Ratio	Lower	Upper	
63	100		
41	74.5	60.9	91.3
62	59.2	53.3	79.9

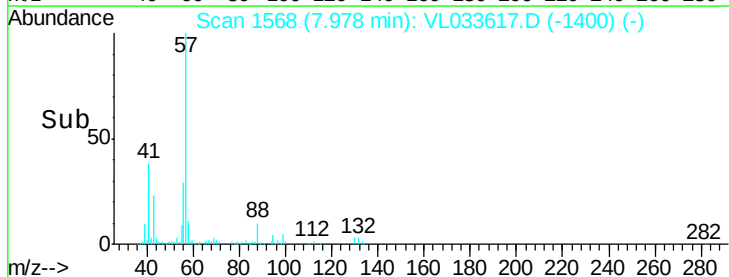
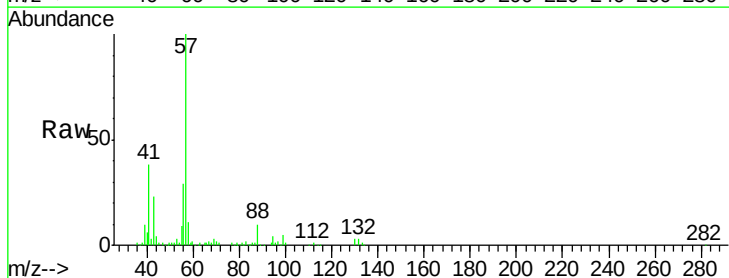
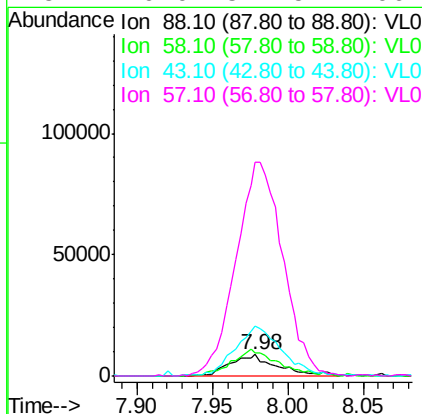
Manual Integrations
 APPROVED

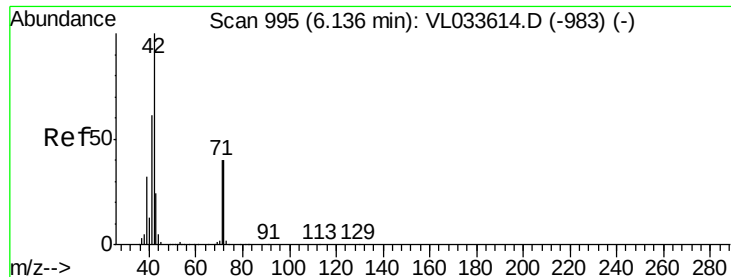
MMDadoda
 5/2/2019 4:03:58 PM



#40
 1,4-Dioxane
 Concen: 0.569 ppbv m
 RT: 7.98 min Scan# 1568
 Delta R.T. 0.04 min
 Lab File: VL033617.D
 Acq: 1 May 2019 13:52

Tgt Ion:	88	Resp:	19270
Ion Ratio	Lower	Upper	
88	100		
58	0.0	98.4	147.6#
43	0.0	190.7	286.1#
57	0.0	844.5	1266.7#





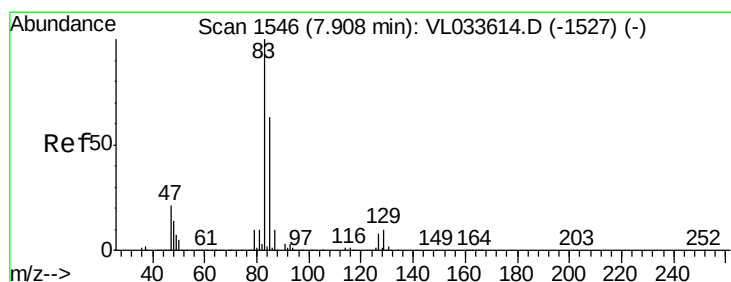
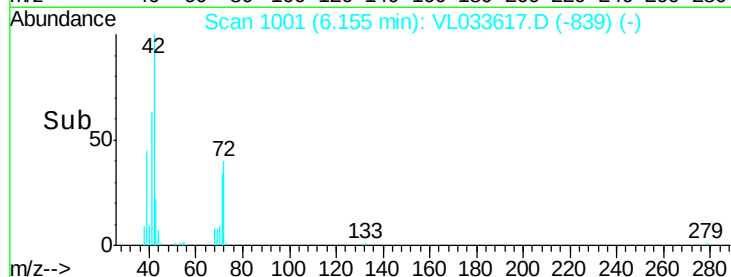
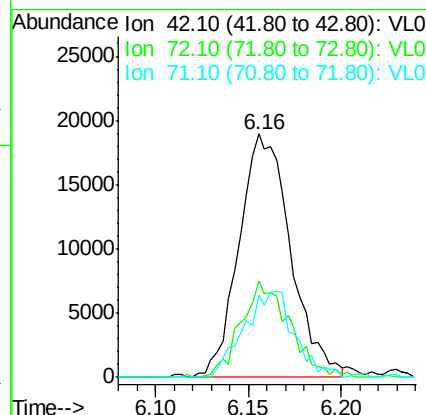
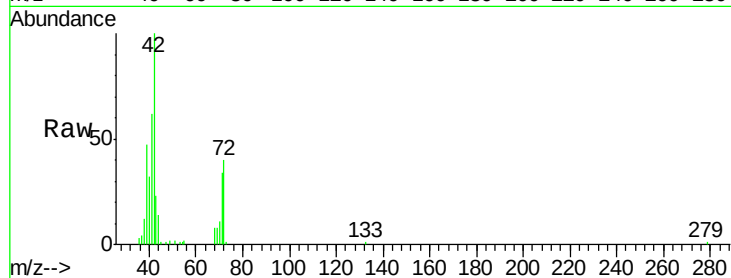
#41
Tetrahydrofuran
Concen: 0.431 ppbv
RT: 6.16 min Scan# 1001
Delta R.T. 0.02 min
Lab File: VL033617.D
Acq: 1 May 2019 13:52

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.6	31.8	47.6
71	35.3	31.0	46.4

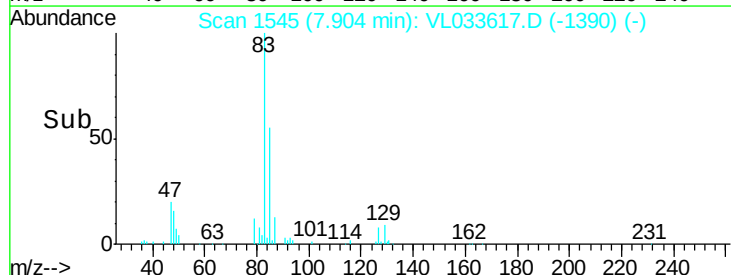
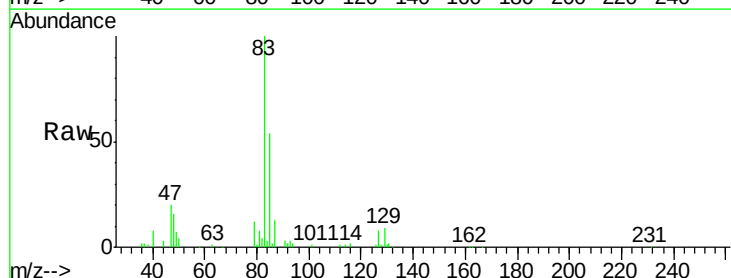
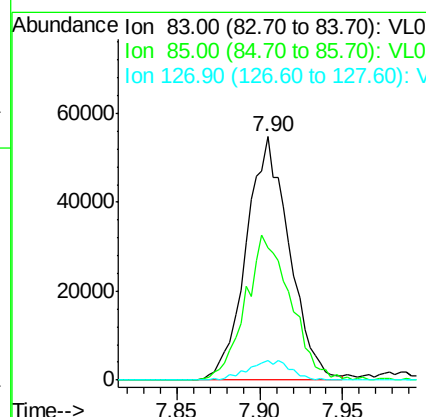
Manual Integrations
APPROVED

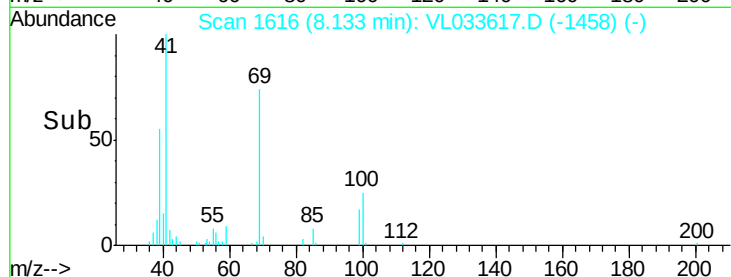
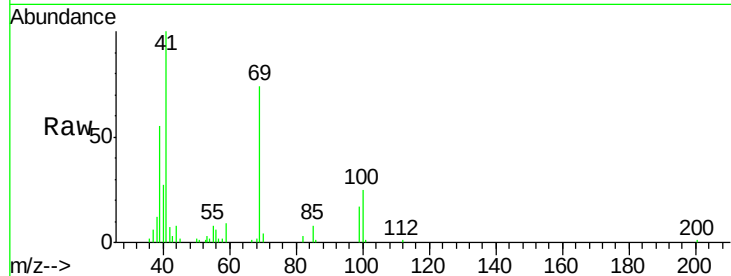
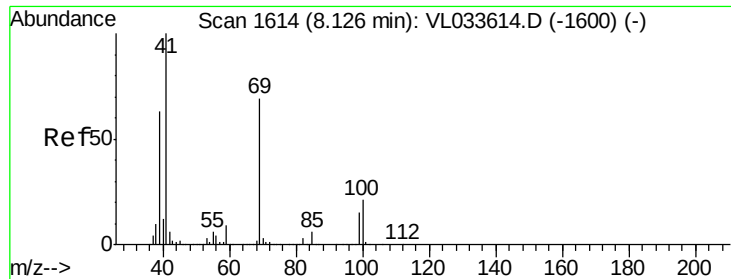
MMDadoda
5/2/2019 4:03:58 PM



#42
Bromodichloromethane
Concen: 0.499 ppbv
RT: 7.90 min Scan# 1545
Delta R.T. -0.00 min
Lab File: VL033617.D
Acq: 1 May 2019 13:52

Tgt Ion	Ratio	Lower	Upper
83	100		
85	54.3	50.2	75.4
127	8.3	6.5	9.7





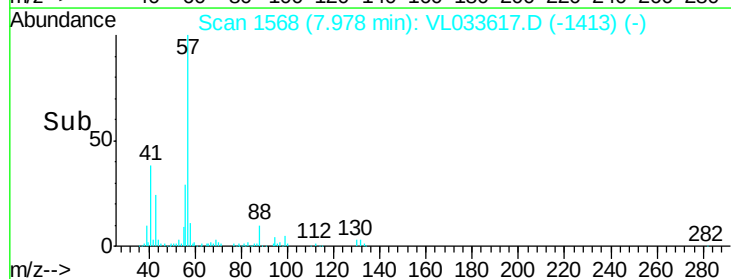
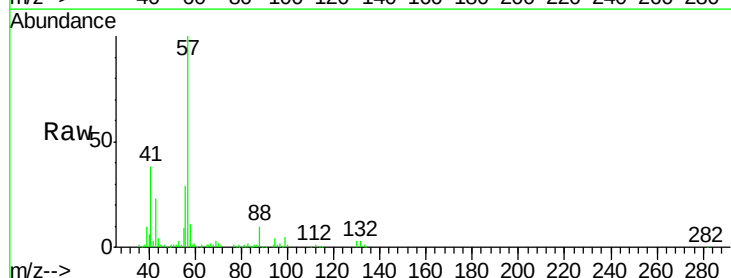
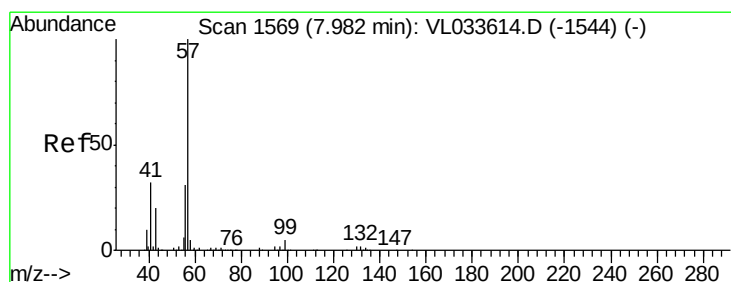
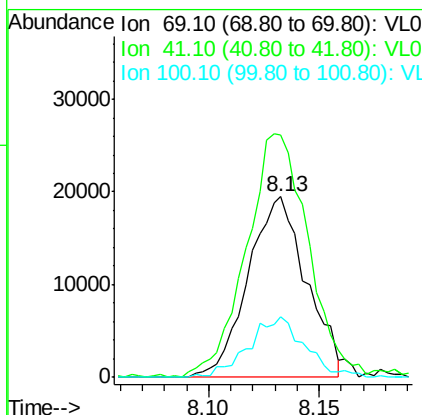
#43
Methyl Methacrylate
Concen: 0.428 ppbv
RT: 8.13 min Scan# 1616
Delta R.T. 0.01 min
Lab File: VL033617.D
Acq: 1 May 2019 13:52

Tot Ion	Ion	Ratio	Resp	Lower	Upper
69	100		35848		
41	144.7	115.0	172.4		
100	32.4	24.7	37.1		

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

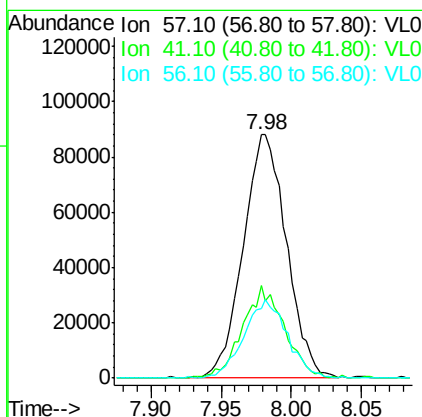
Manual Integrations
APPROVED

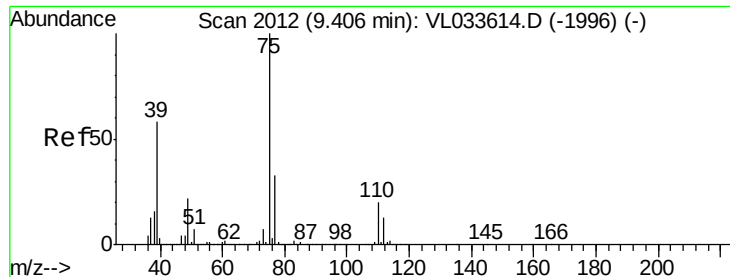
MMDadoda
5/2/2019 4:03:58 PM



#44
2,2,4-Trimethylpentane
Concen: 0.492 ppbv
RT: 7.98 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VL033617.D
Acq: 1 May 2019 13:52

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100		189633		
41	36.7	25.4	38.2		
56	32.0	24.6	37.0		





#45

t-1,3-Dichloropropene

Concen: 0.369 ppbv m

RT: 9.40 min Scan# 2011

Delta R.T. -0.00 min

Lab File: VL033617.D

Acq: 1 May 2019 13:52

Tot Ion: 75 Resp: 41035

Ion Ratio Lower Upper

75 100

77 26.5 26.0 39.0

Instrument :

MSVOA_L

ClientSampleId :

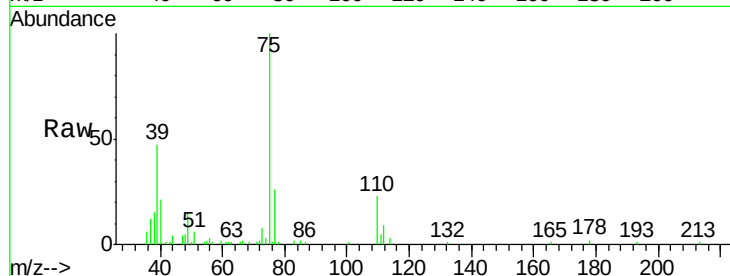
VSTDIC0.5

Manual Integrations

APPROVED

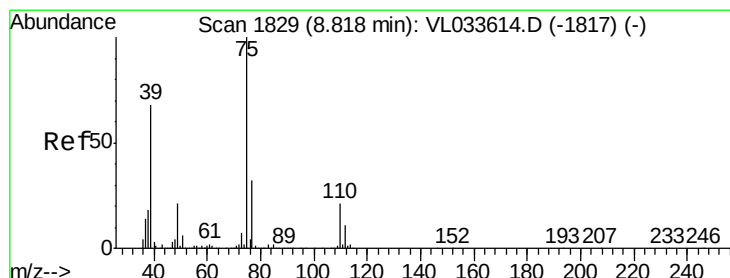
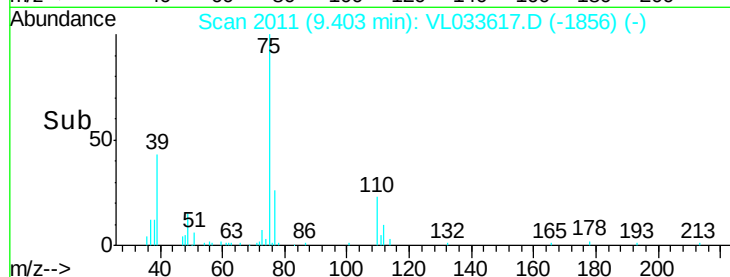
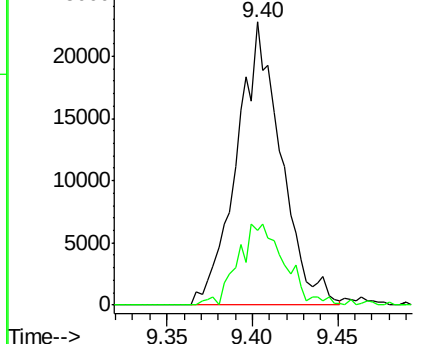
MMDadoda

5/2/2019 4:03:58 PM



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 0.377 ppbv

RT: 8.83 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VL033617.D

Acq: 1 May 2019 13:52

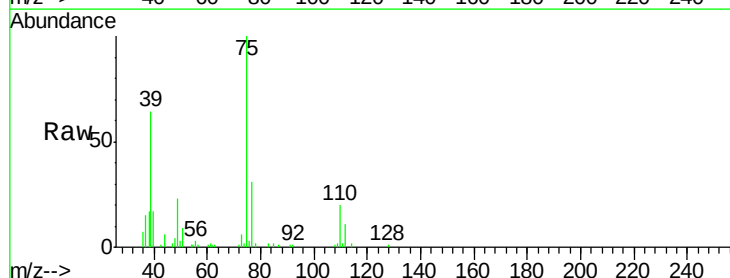
Tgt Ion: 75 Resp: 47224

Ion Ratio Lower Upper

75 100

39 60.7 54.6 82.0

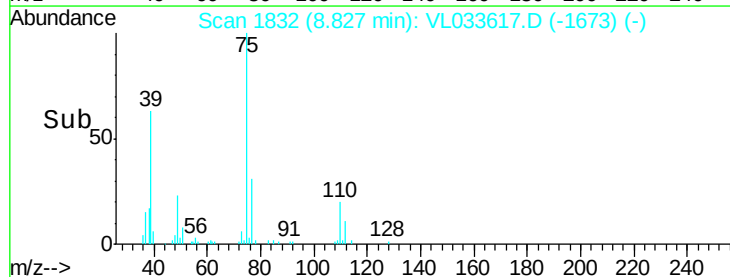
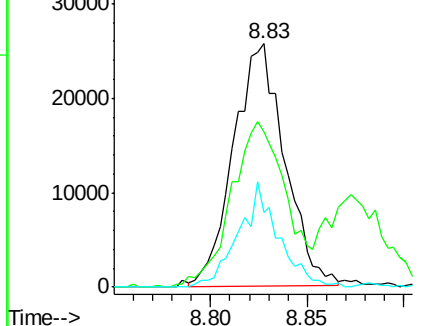
77 31.3 25.7 38.5

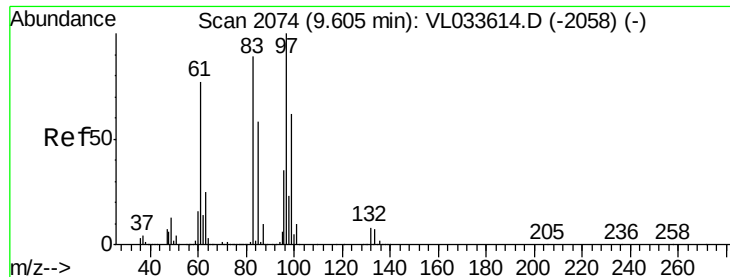


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





#47

1,1,2-Trichloroethane

Concen: 0.454 ppbv

RT: 9.60 min Scan# 2073

Delta R.T. -0.00 min

Lab File: VL033617.D

Acq: 1 May 2019 13:52

Instrument :

MSVOA_L

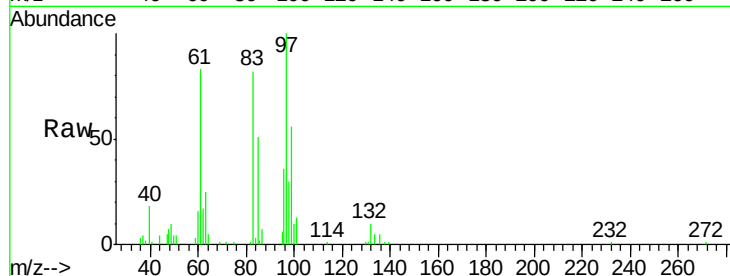
ClientSampleId :

VSTDIC0.5

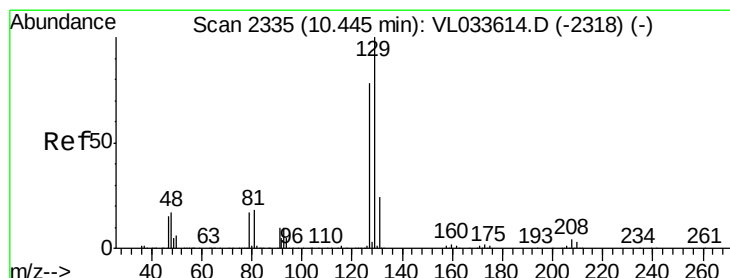
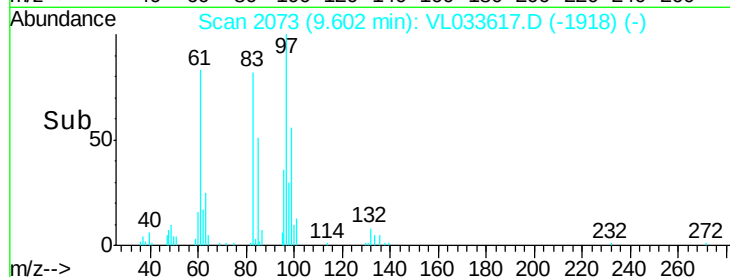
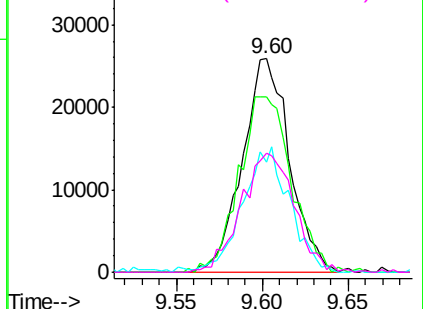
Tot Ion:	97	Resp:	49328
Ion	Ratio	Lower	Upper
97	100		
83	80.0	71.4	107.0
85	51.4	46.0	69.0
99	55.5	49.6	74.4

Manual Integrations
APPROVED

MMDadoda
5/2/2019 4:03:58 PM



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 0.403 ppbv

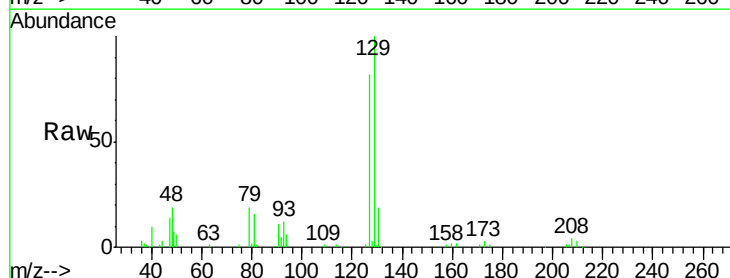
RT: 10.44 min Scan# 2333

Delta R.T. -0.01 min

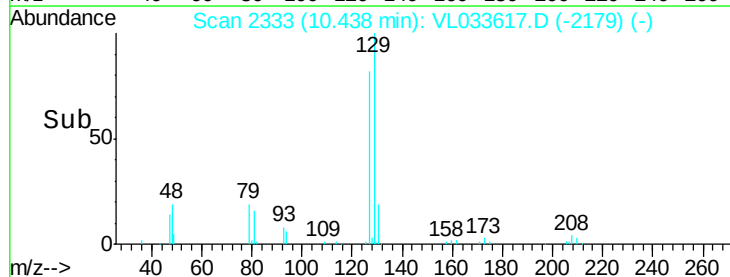
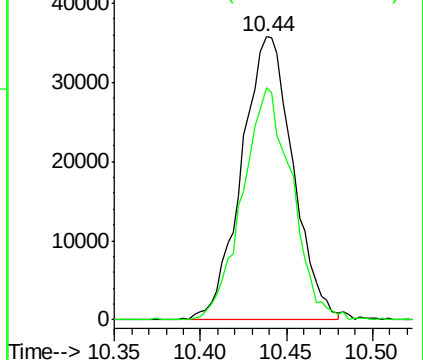
Lab File: VL033617.D

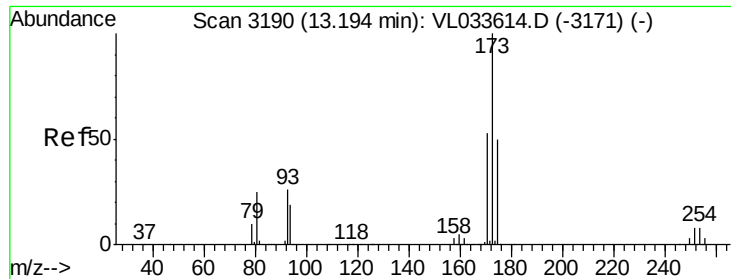
Acq: 1 May 2019 13:52

Tgt Ion:	129	Resp:	74203
Ion	Ratio	Lower	Upper
129	100		
127	79.3	39.2	117.6



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V





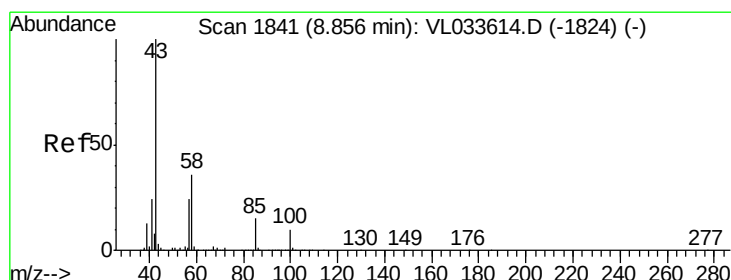
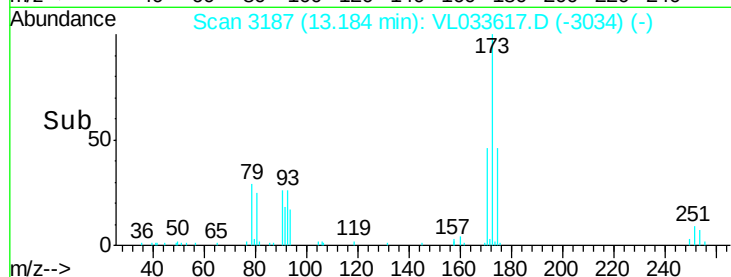
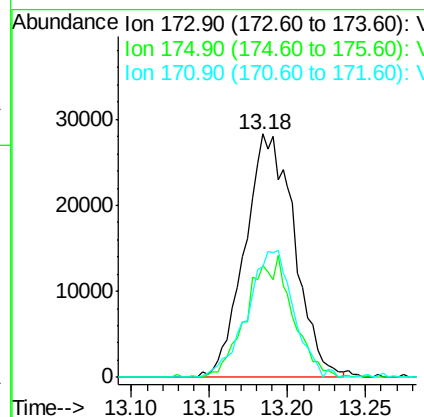
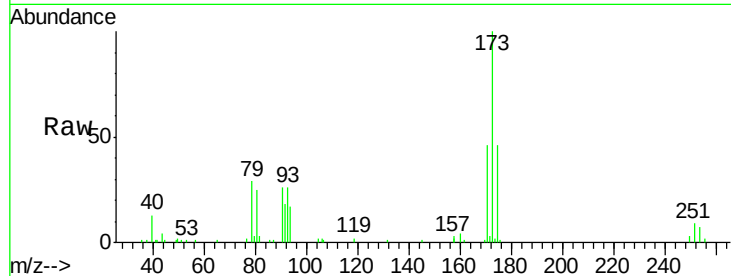
#49
Bromoform
Concen: 0.443 ppbv m
RT: 13.18 min Scan# 3187
Delta R.T. -0.01 min
Lab File: VL033617.D
Acq: 1 May 2019 13:52

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
173	100		
175	0.0	39.0	58.6#
171	0.0	41.6	62.4#

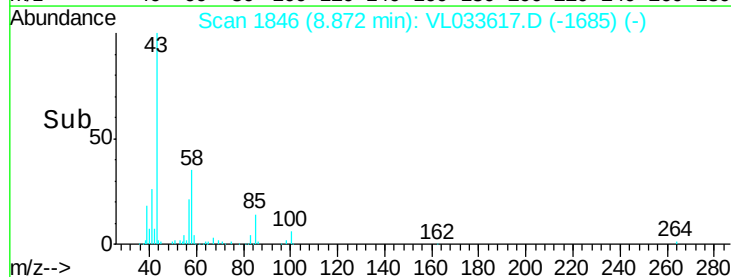
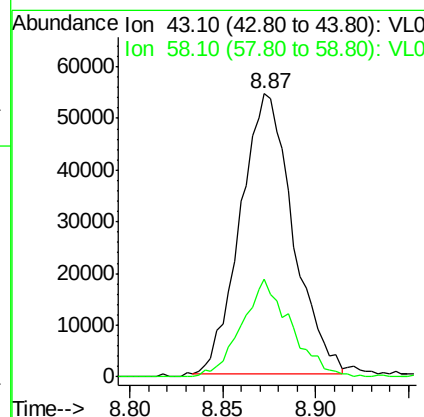
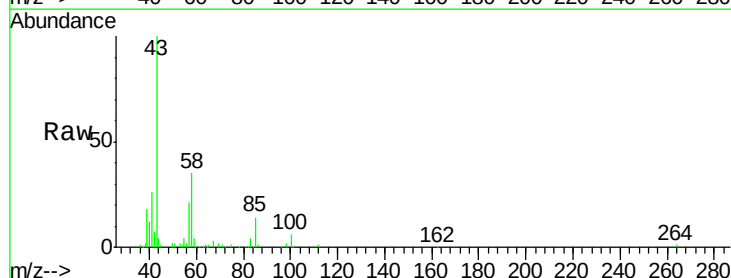
Manual Integrations
APPROVED

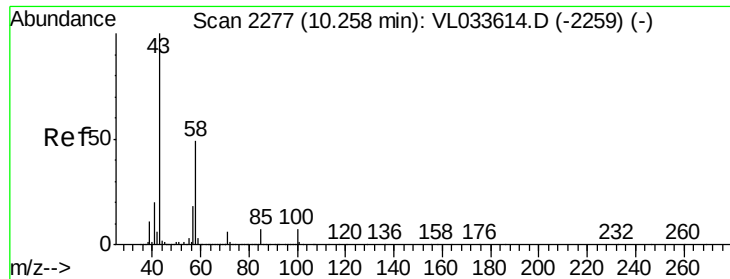
MMDadoda
5/2/2019 4:03:58 PM



#50
4-Methyl-2-Pentanone
Concen: 0.428 ppbv
RT: 8.87 min Scan# 1846
Delta R.T. 0.02 min
Lab File: VL033617.D
Acq: 1 May 2019 13:52

Tgt Ion	Ratio	Lower	Upper
43	100		
58	32.8	28.6	42.8





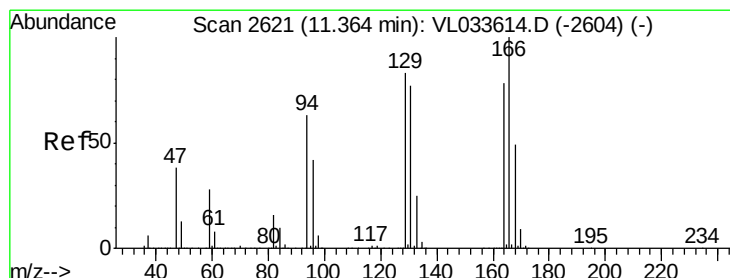
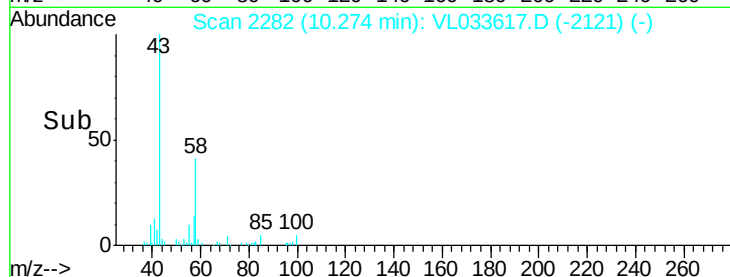
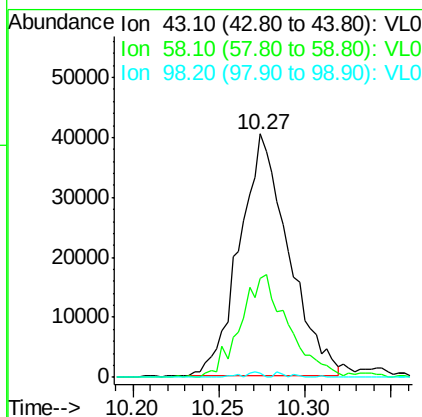
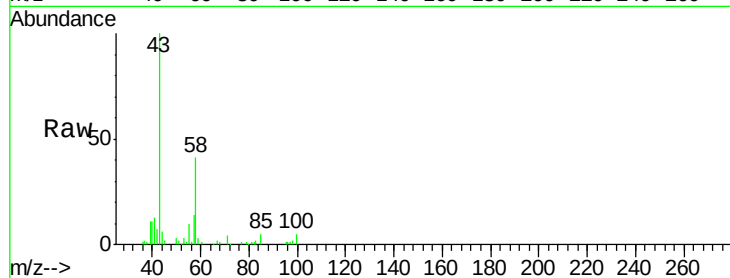
#51
2-Hexanone
Concen: 0.366 ppbv
RT: 10.27 min Scan# 2282
Delta R.T. 0.02 min
Lab File: VL033617.D
Acq: 1 May 2019 13:52

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
43	100		
58	42.2	38.5	57.7
98	1.5	0.3	0.5

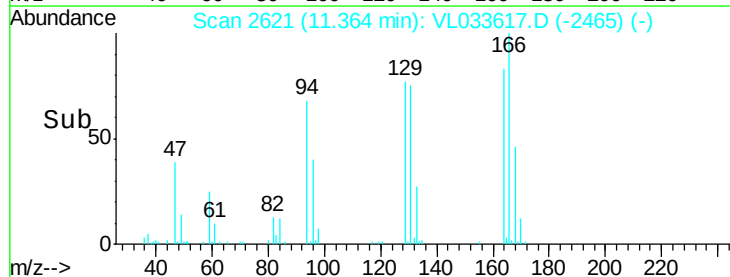
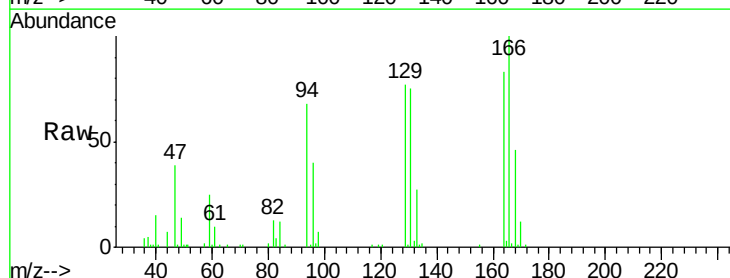
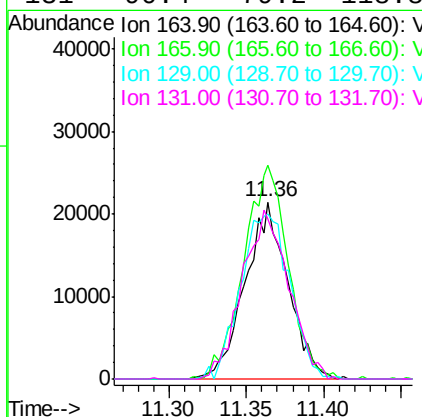
Manual Integrations
APPROVED

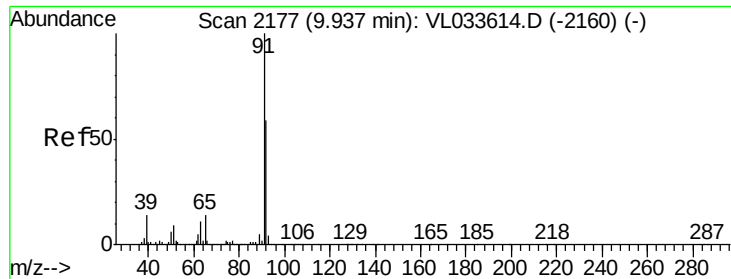
MMDadoda
5/2/2019 4:03:58 PM



#52
Tetrachloroethene
Concen: 0.485 ppbv
RT: 11.36 min Scan# 2621
Delta R.T. 0.00 min
Lab File: VL033617.D
Acq: 1 May 2019 13:52

Tgt Ion	Ratio	Lower	Upper
164	100		
166	122.8	102.2	153.4
129	94.6	84.4	126.6
131	90.4	79.2	118.8





#53

Toluene

Concen: 0.360 ppbv

RT: 9.94 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VL033617.D

Acq: 1 May 2019 13:52

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 100405

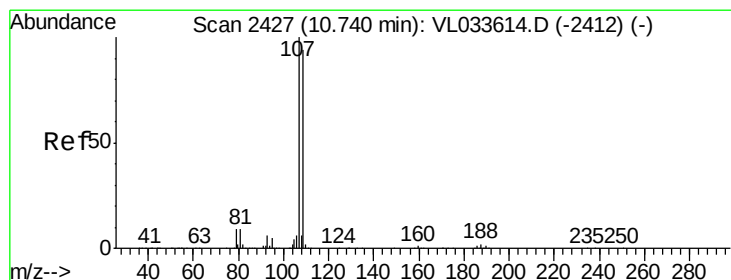
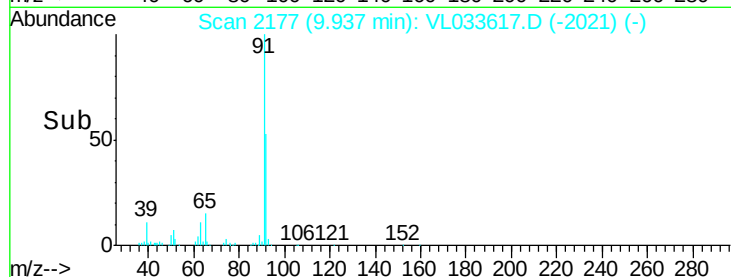
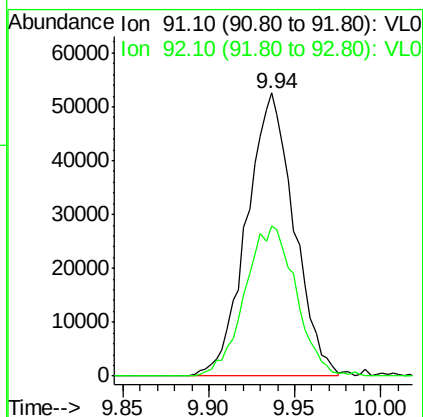
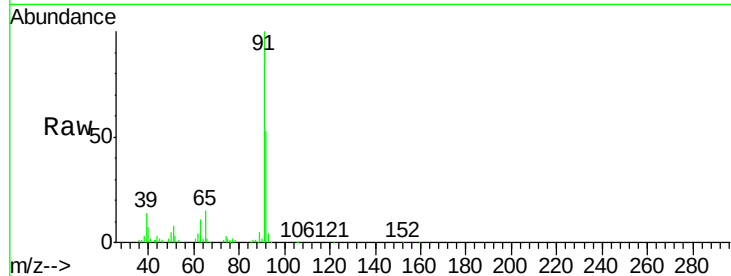
Ion Ratio Lower Upper

91 100

92 57.1 47.8 71.6

Manual Integrations
APPROVED

MMDadoda
5/2/2019 4:03:58 PM



#54

1,2-Dibromoethane

Concen: 0.465 ppbv

RT: 10.75 min Scan# 2429

Delta R.T. 0.01 min

Lab File: VL033617.D

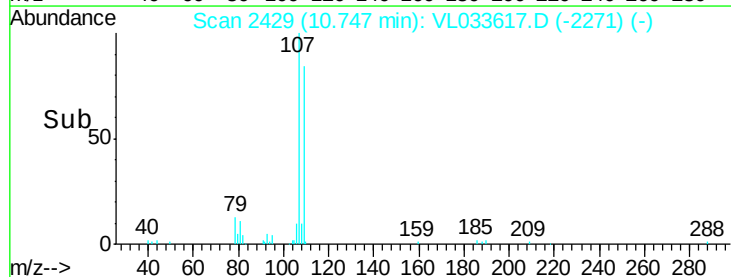
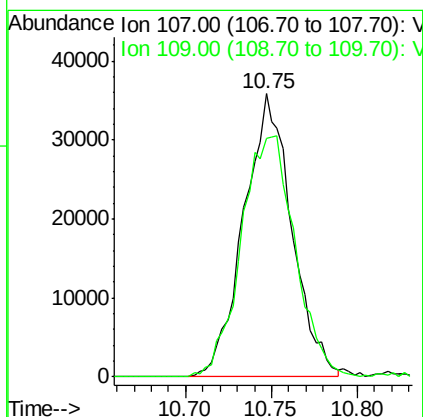
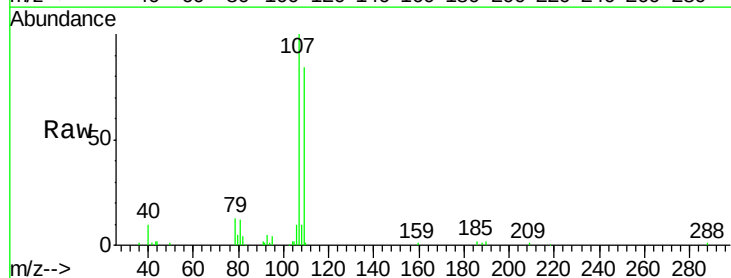
Acq: 1 May 2019 13:52

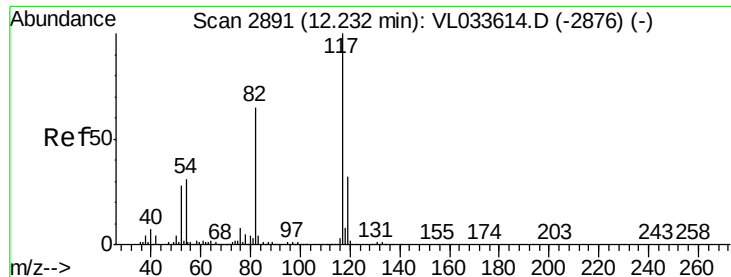
Tgt Ion: 107 Resp: 69433

Ion Ratio Lower Upper

107 100

109 84.1 75.1 112.7





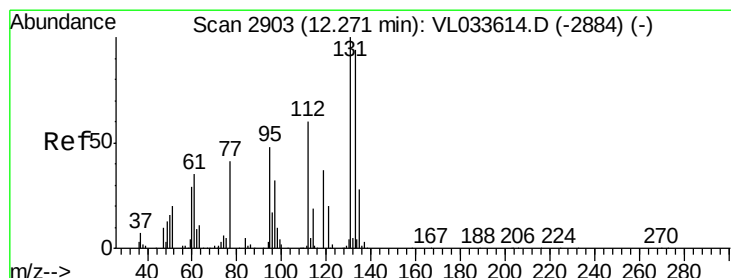
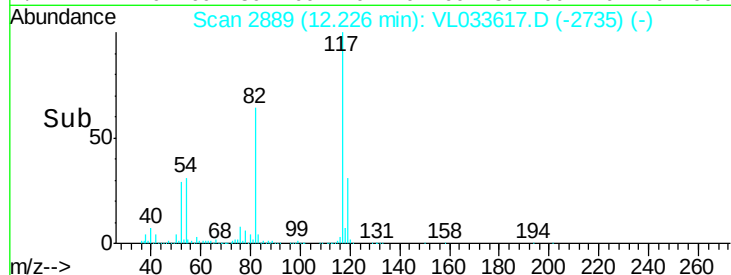
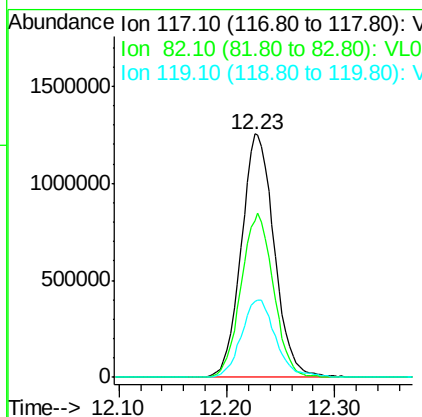
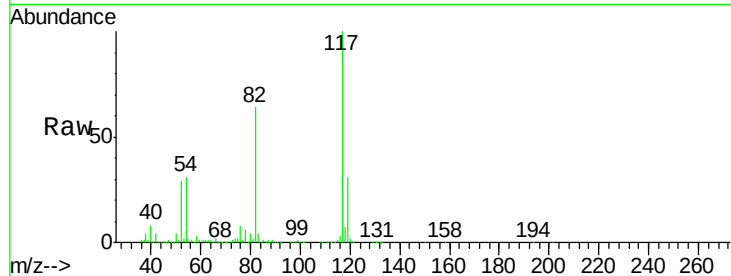
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2889
Delta R.T. -0.01 min
Lab File: VL033617.D
Acq: 1 May 2019 13:52

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
117	100		
82	66.5	52.6	78.8
119	33.3	28.3	42.5

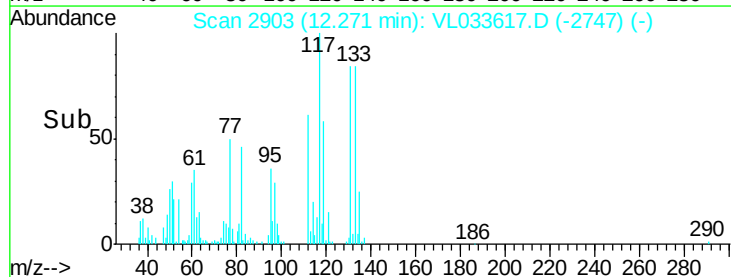
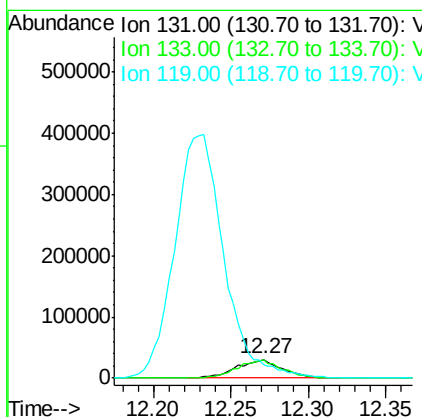
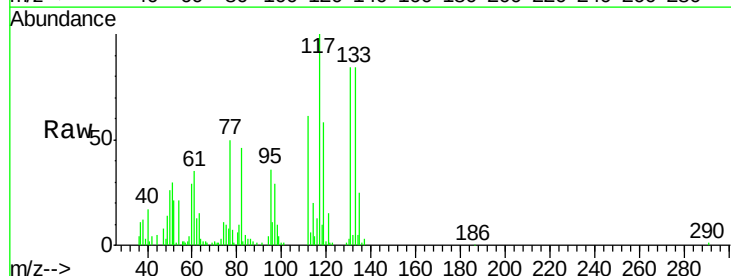
Manual Integrations
APPROVED

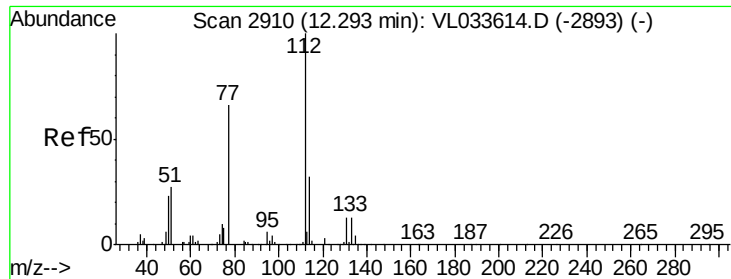
MMDadoda
5/2/2019 4:03:58 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 0.531 ppbv
RT: 12.27 min Scan# 2903
Delta R.T. 0.00 min
Lab File: VL033617.D
Acq: 1 May 2019 13:52

Tgt Ion	Ratio	Lower	Upper
131	100		
133	97.0	76.4	114.6
119	1436.5	40.9	61.3#





#57

Chlorobenzene

Concen: 0.534 ppbv

RT: 12.29 min Scan# 2909

Delta R.T. -0.00 min

Lab File: VL033617.D

Acq: 1 May 2019 13:52

Instrument :

MSVOA_L

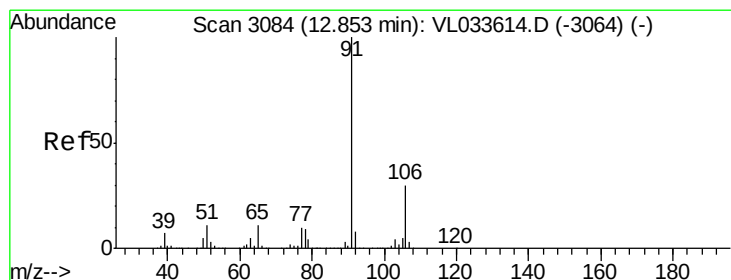
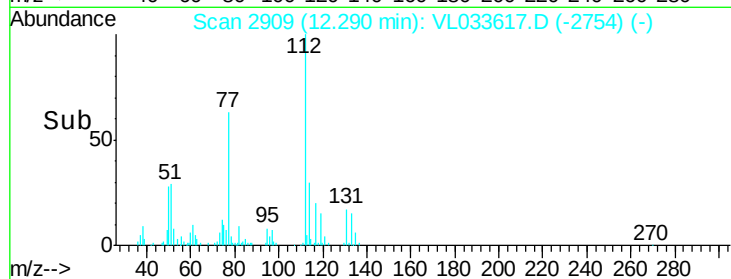
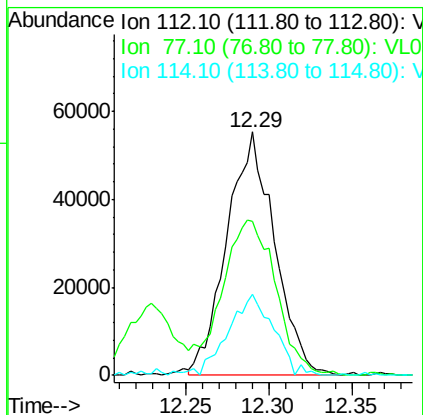
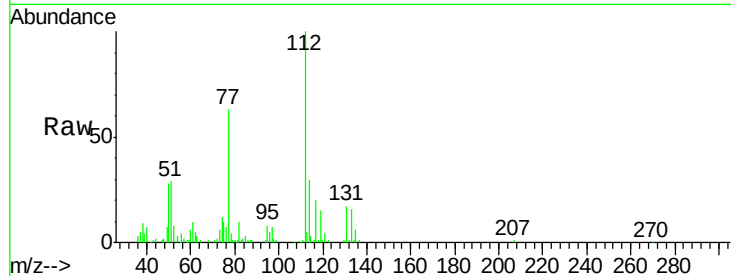
ClientSampleId :

VSTDIC0.5

Tot Ion:	112	Resp:	110499
Ion Ratio	Lower	Upper	
112	100		
77	62.4	53.6	80.4
114	33.1	29.1	35.5

Manual Integrations
APPROVED

MMDadoda
5/2/2019 4:03:58 PM



#58

Ethyl Benzene

Concen: 0.469 ppbv

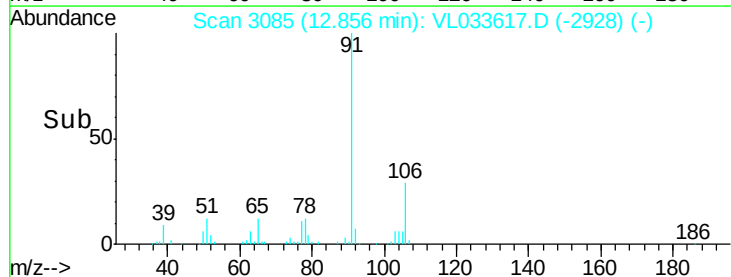
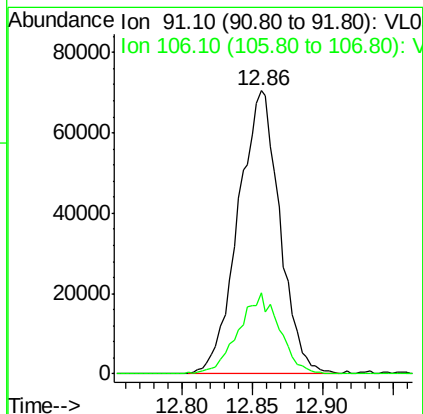
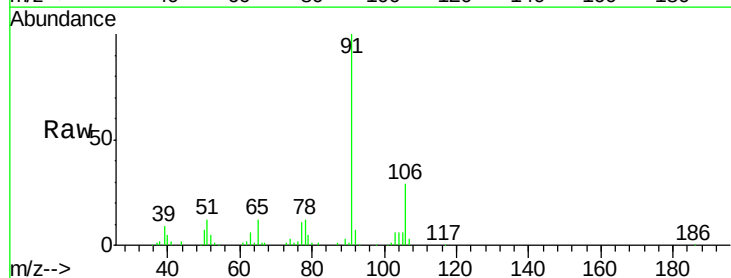
RT: 12.86 min Scan# 3085

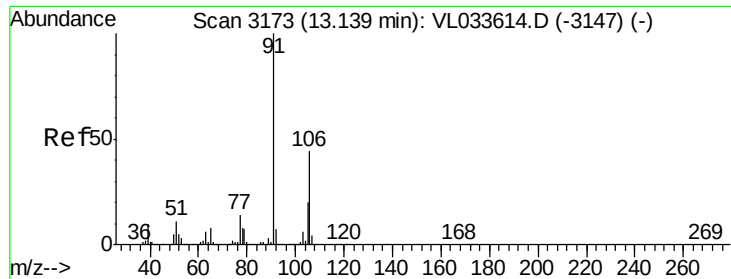
Delta R.T. 0.00 min

Lab File: VL033617.D

Acq: 1 May 2019 13:52

Tgt Ion:	91	Resp:	145152
Ion Ratio	Lower	Upper	
91	100		
106	28.6	23.6	35.4





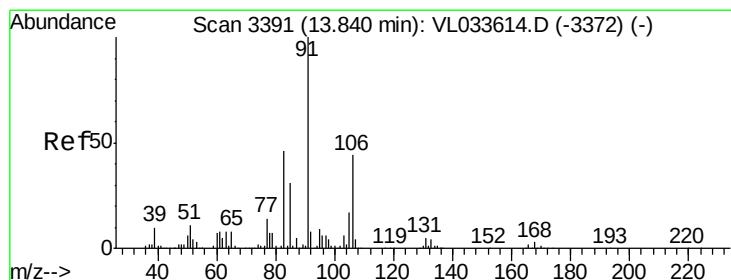
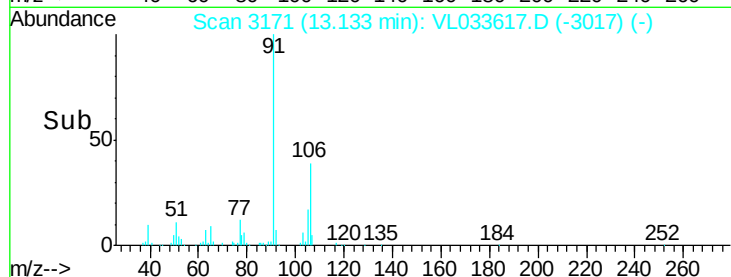
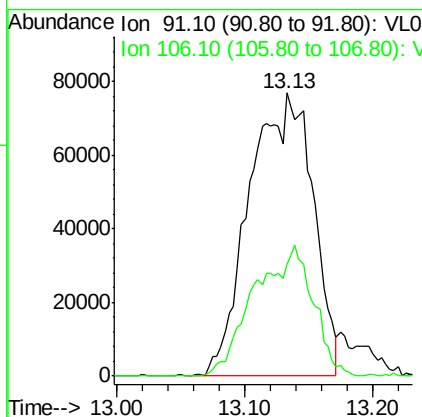
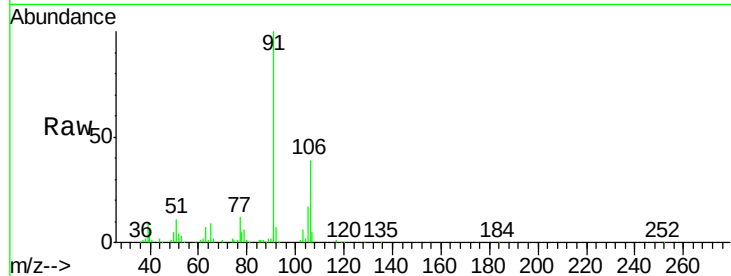
#59
m/p-Xylene
Concen: 0.994 ppbv m
RT: 13.13 min Scan# 3171
Delta R.T. -0.01 min
Lab File: VL033617.D
Acq: 1 May 2019 13:52

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0

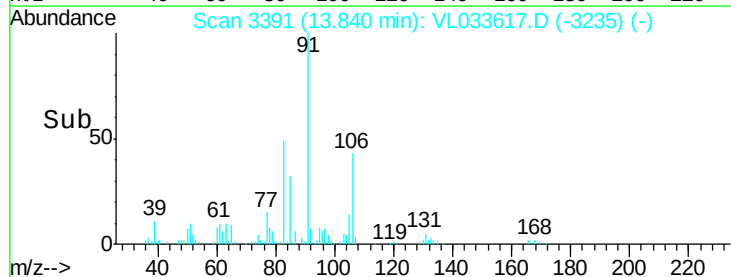
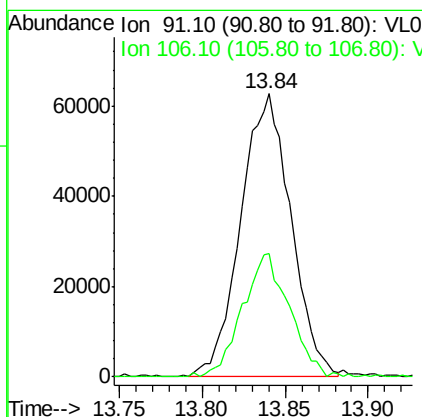
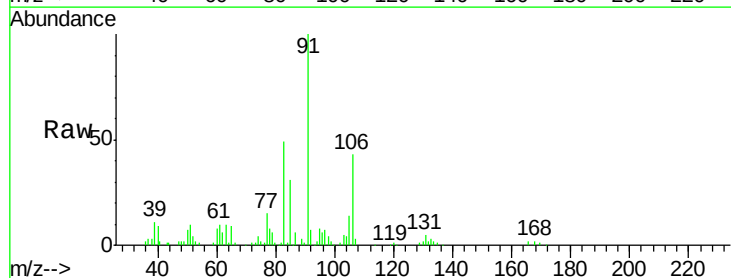
Manual Integrations
APPROVED

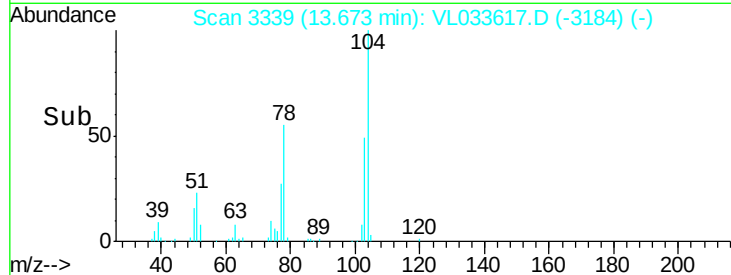
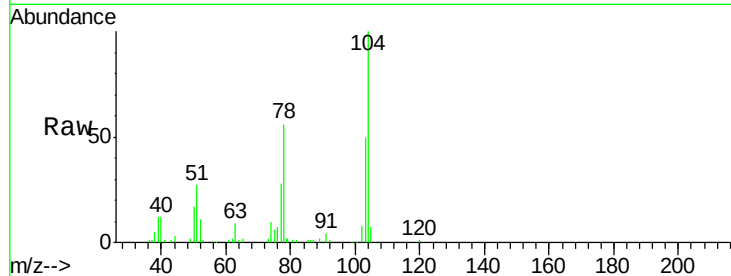
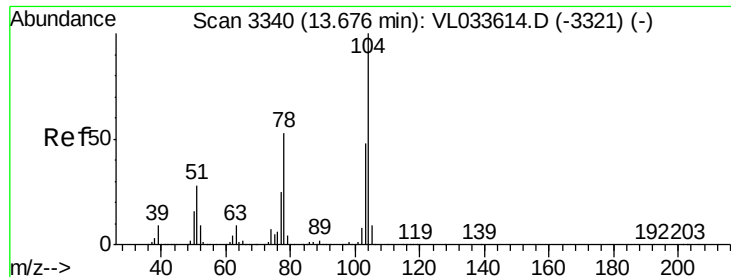
MMDadoda
5/2/2019 4:03:58 PM



#60
o-Xylene
Concen: 0.492 ppbv
RT: 13.84 min Scan# 3391
Delta R.T. 0.00 min
Lab File: VL033617.D
Acq: 1 May 2019 13:52

Tgt Ion	Ratio	Lower	Upper
91	100		
106	40.6	21.8	65.4





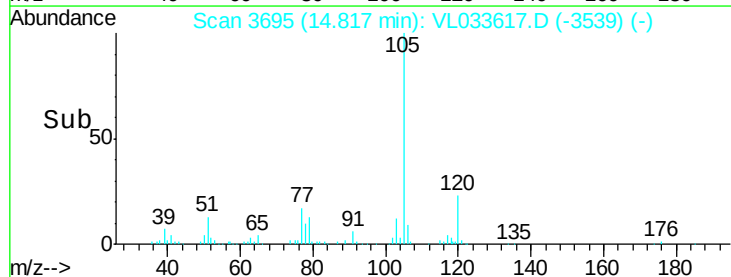
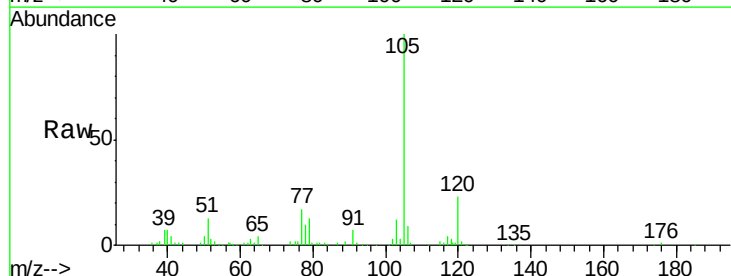
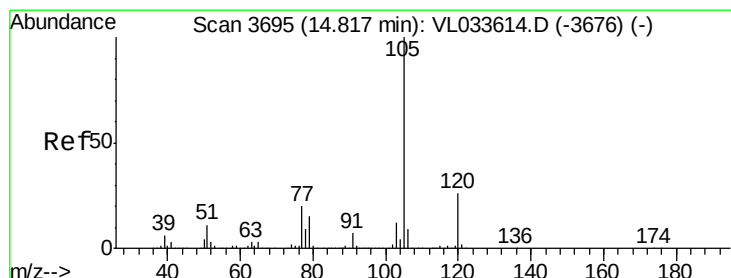
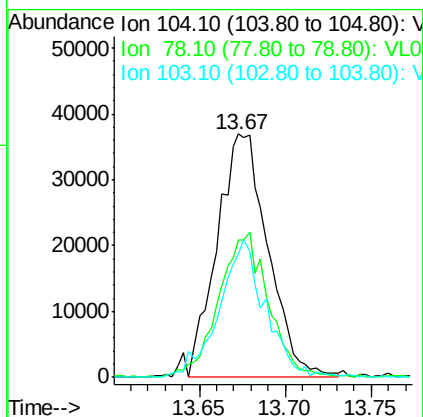
#61
Stvrene
Concen: 0.416 ppbv
RT: 13.67 min Scan# 3339
Delta R.T. -0.00 min
Lab File: VL033617.D
Acq: 1 May 2019 13:52

Tot Ion	Ratio	Lower	Upper
104	100		
78	58.0	42.7	64.1
103	51.1	37.8	56.6

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

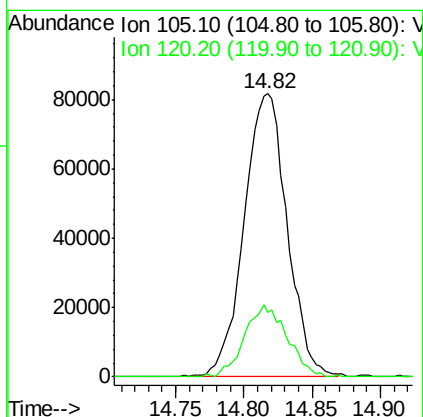
Manual Integrations
APPROVED

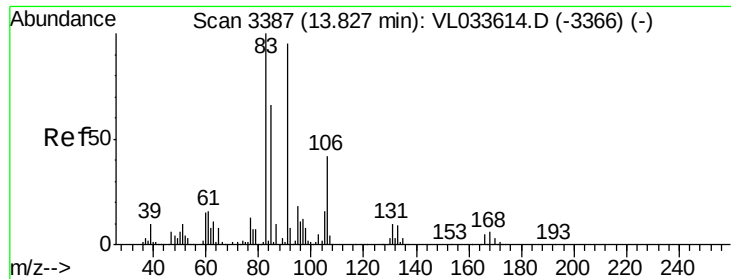
MMDadoda
5/2/2019 4:03:58 PM



#62
Isopropylbenzene
Concen: 0.495 ppbv
RT: 14.82 min Scan# 3695
Delta R.T. 0.00 min
Lab File: VL033617.D
Acq: 1 May 2019 13:52

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.2	20.3	30.5





#63

1,1,2,2-Tetrachloroethane

Concen: 0.545 ppbv

RT: 13.82 min Scan# 3386

Delta R.T. -0.00 min

Lab File: VL033617.D

Acq: 1 May 2019 13:52

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 83 Resp: 114739

Ion Ratio Lower Upper

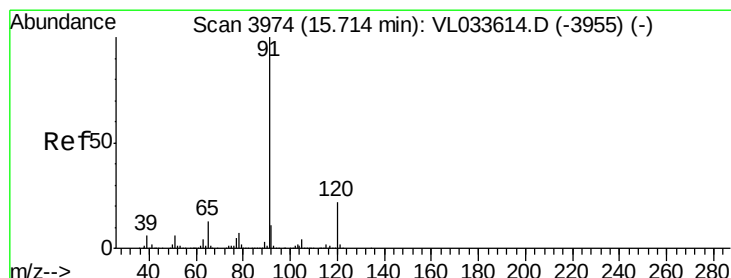
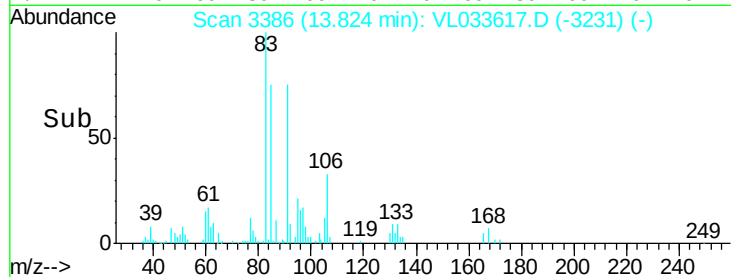
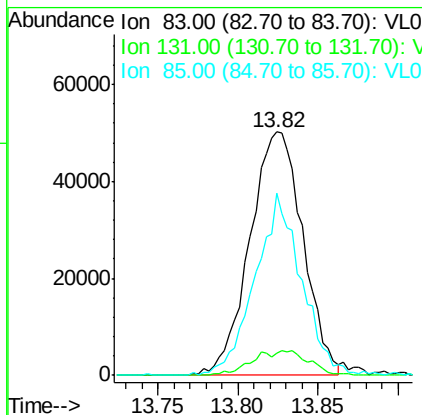
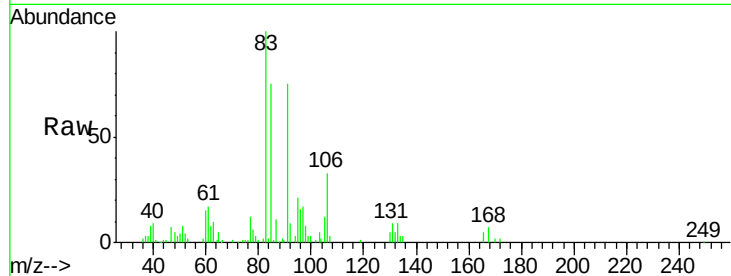
83 100

131 10.9 4.8 14.4

85 66.1 32.3 96.8

Manual Integrations
APPROVED

MMDadoda
5/2/2019 4:03:58 PM



#64

n-propylbenzene

Concen: 0.478 ppbv

RT: 15.72 min Scan# 3975

Delta R.T. 0.00 min

Lab File: VL033617.D

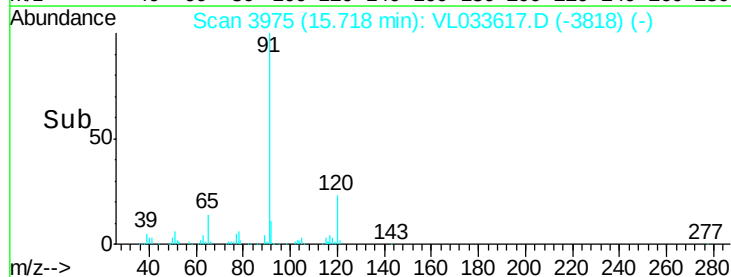
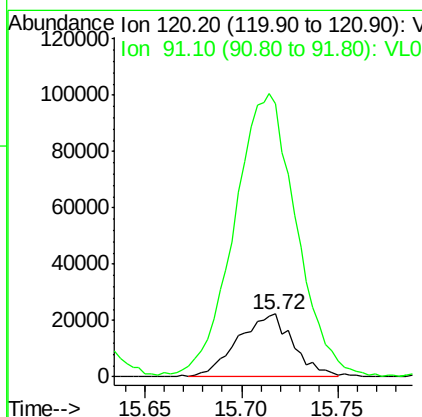
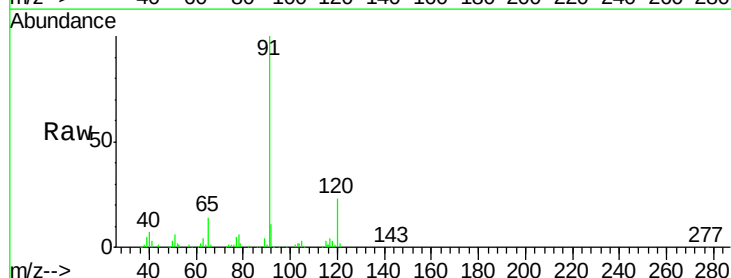
Acq: 1 May 2019 13:52

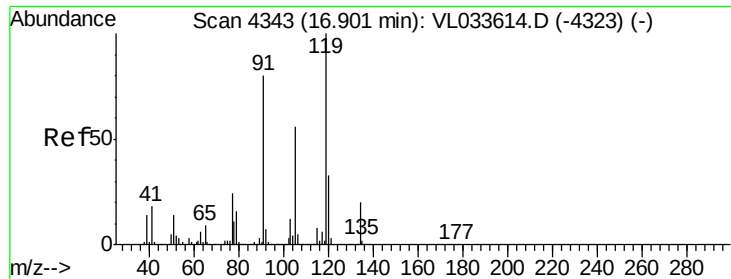
Tgt Ion: 120 Resp: 44537

Ion Ratio Lower Upper

120 100

91 506.9 380.2 570.2





#65

tert-Butylbenzene

Concen: 0.481 ppbv m

RT: 16.90 min Scan# 4344

Delta R.T. 0.00 min

Lab File: VL033617.D

Acq: 1 May 2019 13:52

Instrument :

MSVOA_L

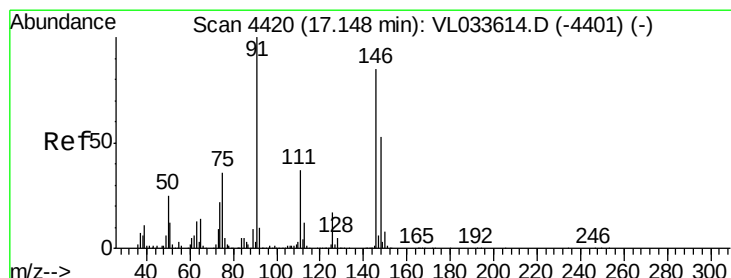
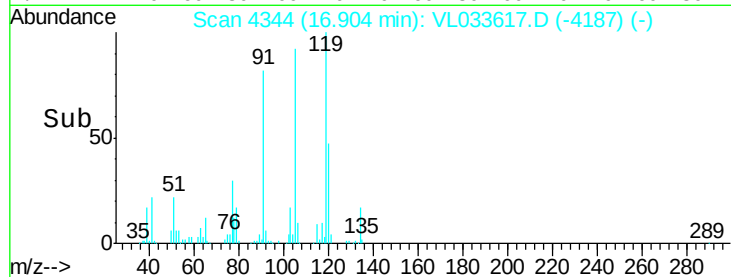
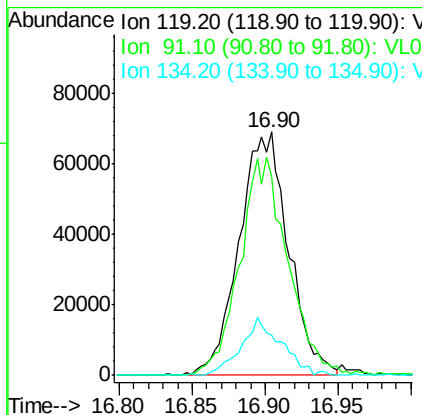
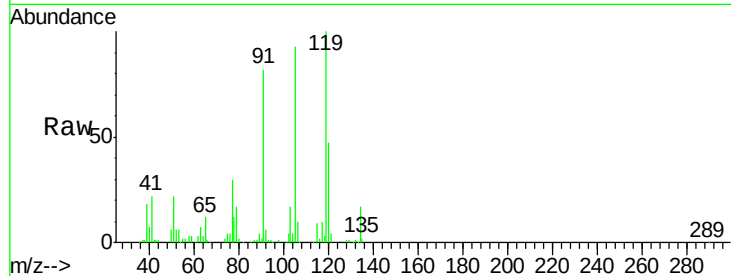
ClientSampleId :

VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
119	100	161613		
91	0.0	66.1	99.1#	
134	19.3	15.6	23.4	

Manual Integrations
APPROVED

MMDadoda
5/2/2019 4:03:58 PM



#66

Benzyl Chloride

Concen: 0.405 ppbv

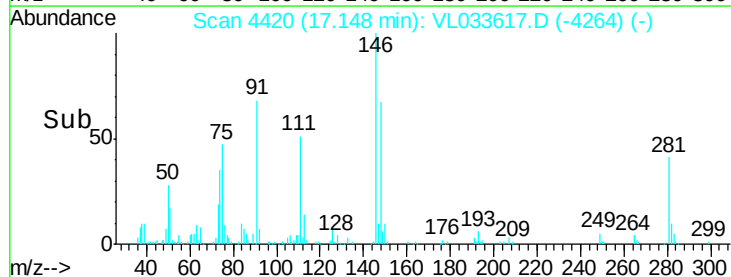
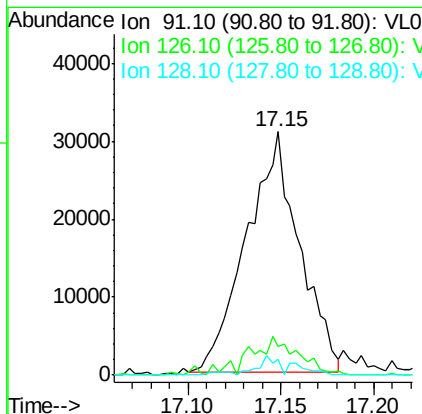
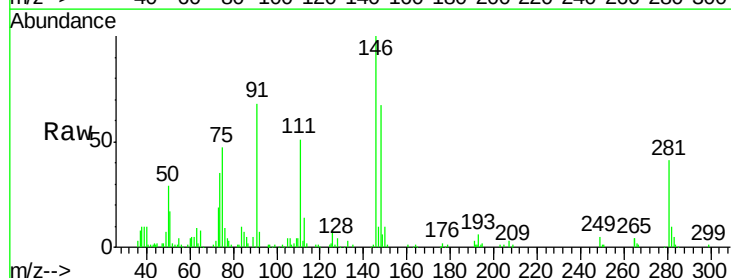
RT: 17.15 min Scan# 4420

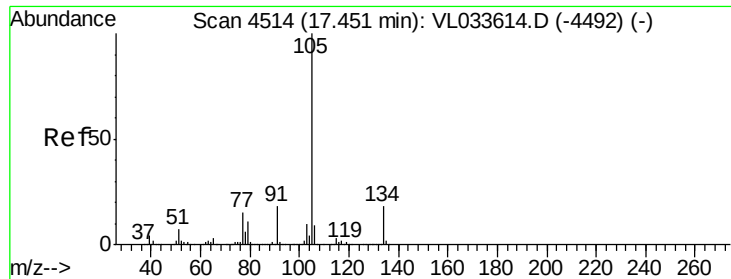
Delta R.T. 0.00 min

Lab File: VL033617.D

Acq: 1 May 2019 13:52

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	61736		
126	15.2	13.4	20.2	
128	5.2	4.3	6.5	





#67

sec-Butylbenzene

Concen: 0.480 ppbv

RT: 17.45 min Scan# 4513

Delta R.T. -0.00 min

Lab File: VL033617.D

Acq: 1 May 2019 13:52

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:105 Resp: 226240

Ion Ratio Lower Upper

105 100

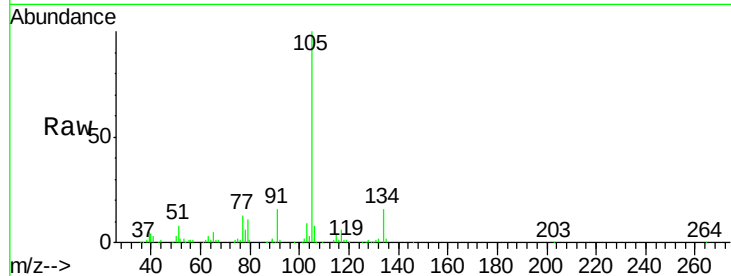
134 17.4 14.6 21.8

Manual Integrations

APPROVED

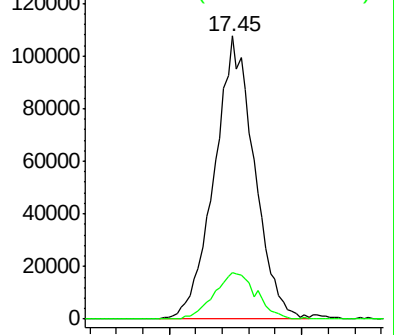
MMDadoda

5/2/2019 4:03:58 PM

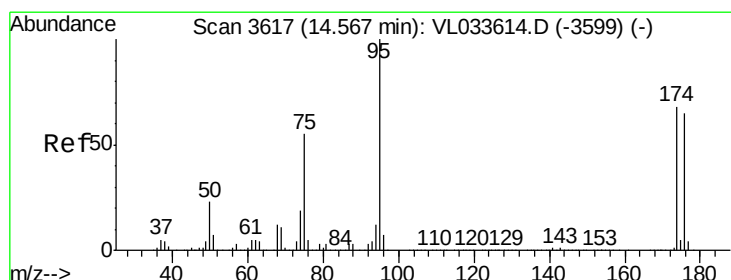
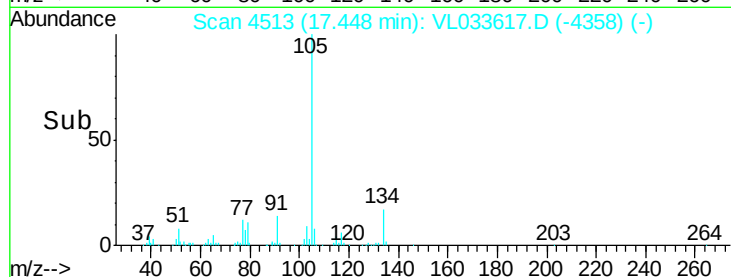


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 10.669 ppbv

RT: 14.56 min Scan# 3616

Delta R.T. -0.00 min

Lab File: VL033617.D

Acq: 1 May 2019 13:52

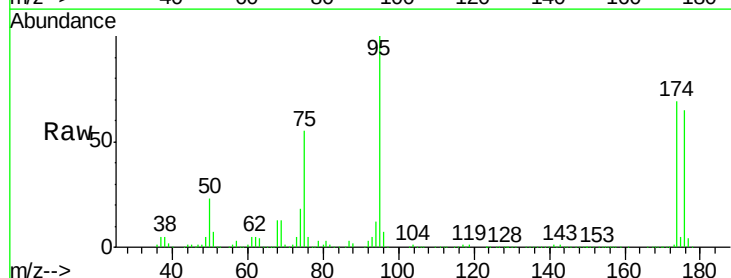
Tgt Ion: 95 Resp: 2174958

Ion Ratio Lower Upper

95 100

174 67.0 53.9 80.9

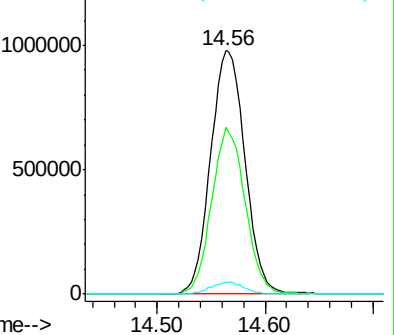
175 4.8 4.0 6.0



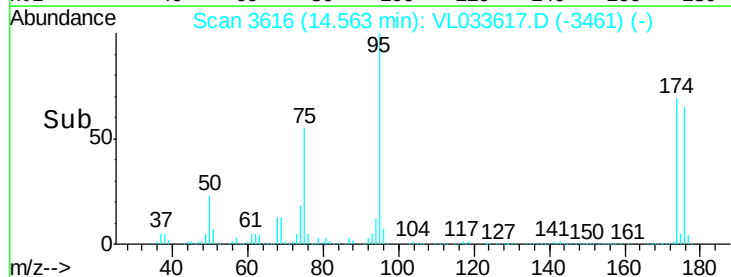
Abundance Ion 95.10 (94.80 to 95.80): VL0

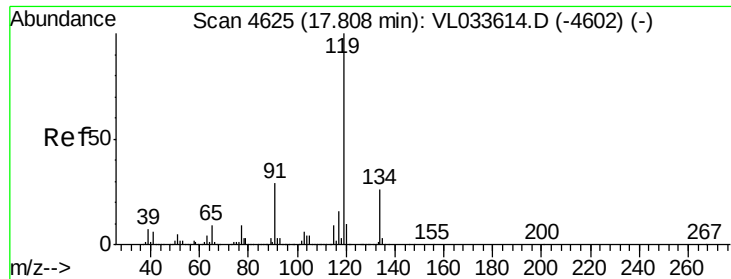
Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



Time-->





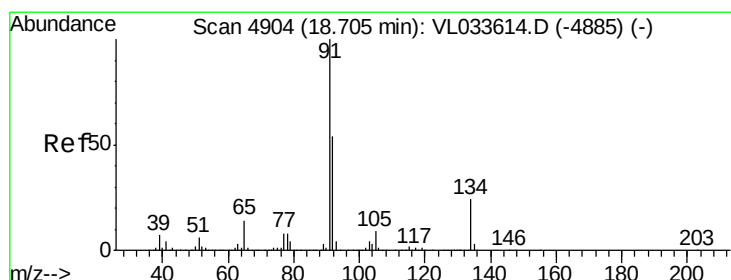
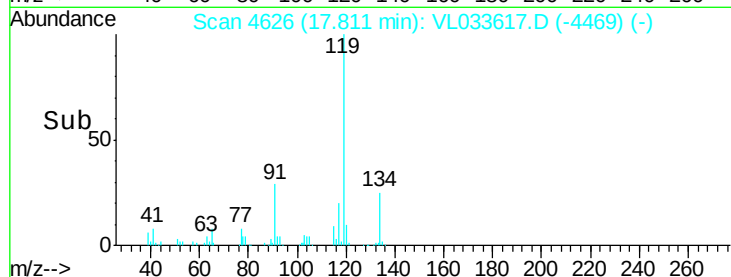
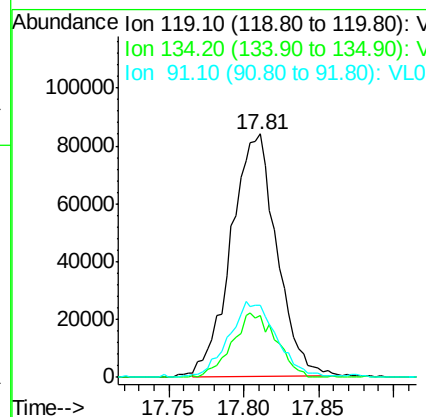
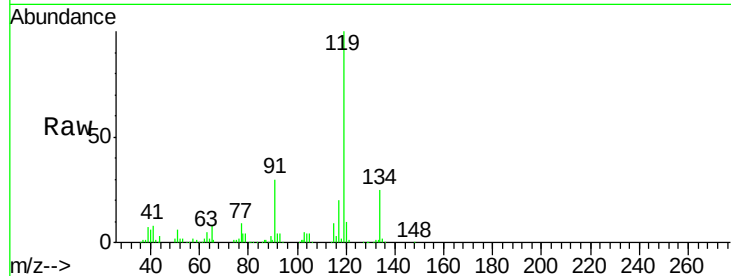
#69
 p-Isopropyltoluene
 Concen: 0.454 ppbv
 RT: 17.81 min Scan# 4626
 Delta R.T. 0.00 min
 Lab File: VL033617.D
 Acq: 1 May 2019 13:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion:	119	Resp:	178269
Ion Ratio	Lower	Upper	
119	100		
134	25.8	20.2	30.2
91	33.3	23.3	34.9

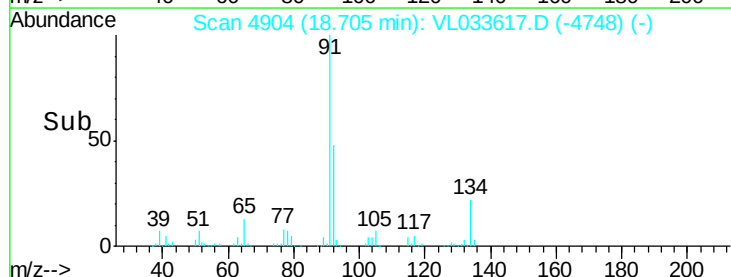
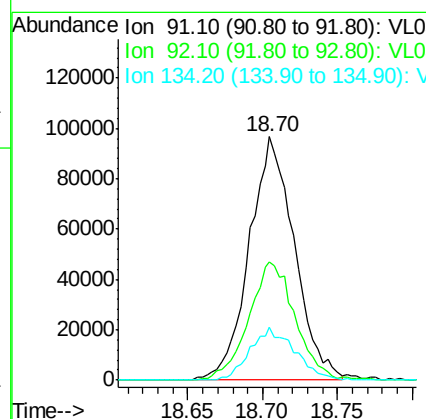
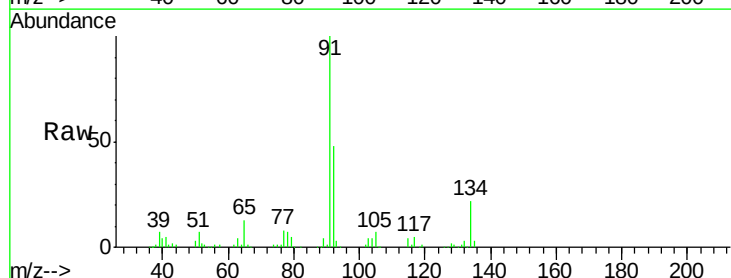
Manual Integrations
 APPROVED

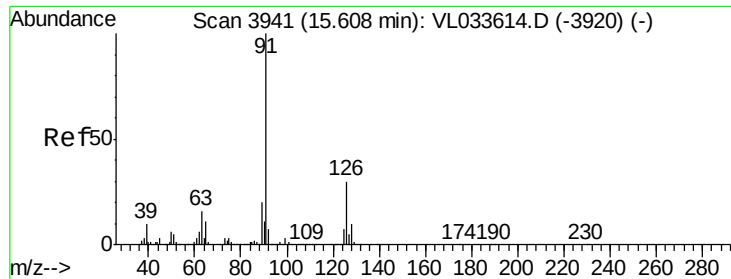
MMDadoda
 5/2/2019 4:03:58 PM



#70
 n-Butylbenzene
 Concen: 0.475 ppbv
 RT: 18.70 min Scan# 4904
 Delta R.T. 0.00 min
 Lab File: VL033617.D
 Acq: 1 May 2019 13:52

Tgt Ion:	91	Resp:	202860
Ion Ratio	Lower	Upper	
91	100		
92	50.0	42.6	64.0
134	21.3	18.0	27.0





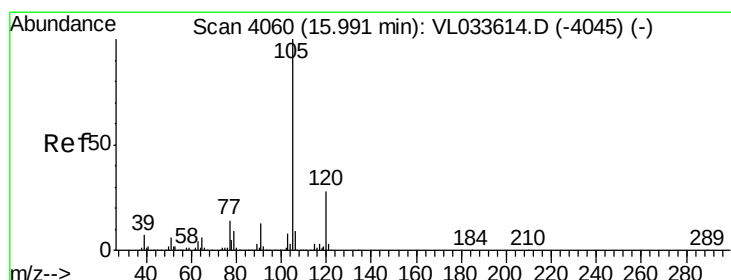
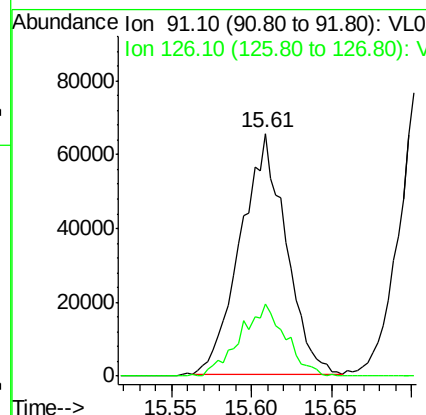
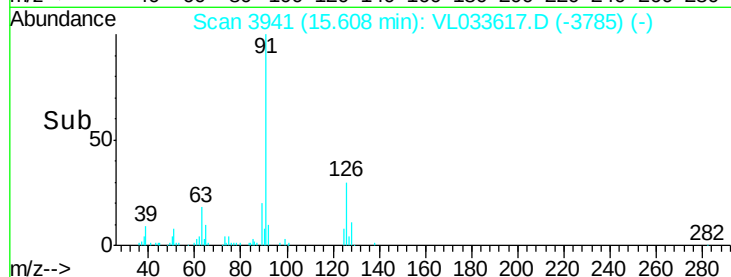
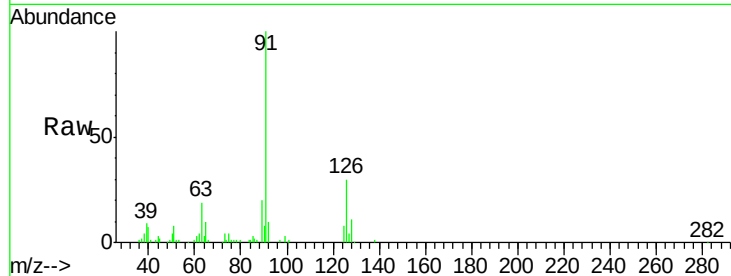
#71
2-Chlorotoluene
Concen: 0.474 ppbv
RT: 15.61 min Scan# 3941
Delta R.T. 0.00 min
Lab File: VL033617.D
Acq: 1 May 2019 13:52

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
91	100		
126	29.9	11.9	47.7

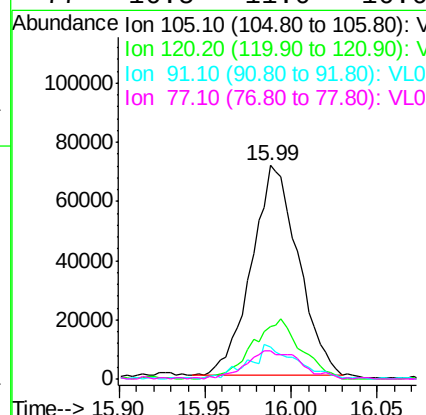
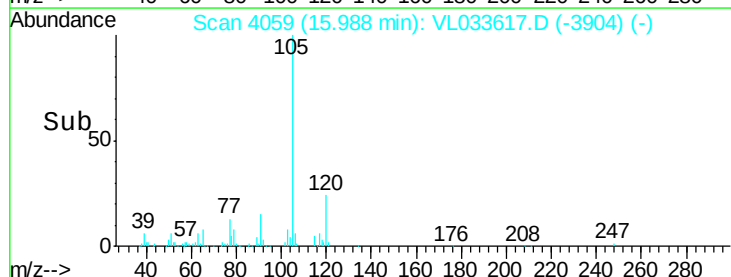
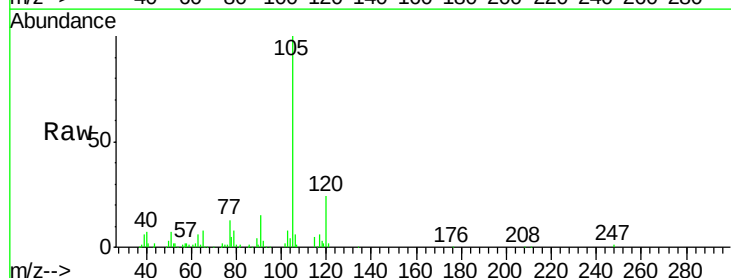
Manual Integrations
APPROVED

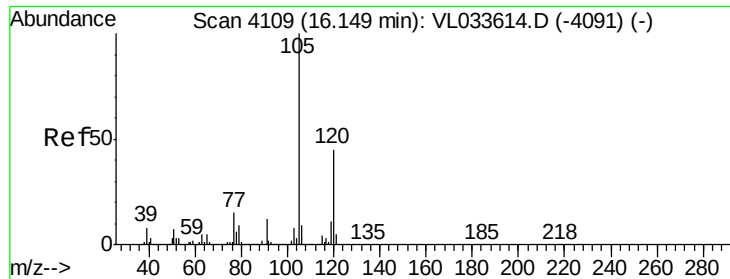
MMDadoda
5/2/2019 4:03:58 PM



#72
4-Ethyltoluene
Concen: 0.439 ppbv
RT: 15.99 min Scan# 4059
Delta R.T. -0.00 min
Lab File: VL033617.D
Acq: 1 May 2019 13:52

Tgt Ion	Ratio	Lower	Upper
105	100		
120	29.5	23.2	34.8
91	17.4	10.3	15.5#
77	16.5	11.0	16.6





#73

1,3,5-Trimethylbenzene

Concen: 0.478 ppbv

RT: 16.15 min Scan# 4110

Delta R.T. 0.00 min

Lab File: VL033617.D

Acq: 1 May 2019 13:52

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:105 Resp: 143908

Ion Ratio Lower Upper

105 100

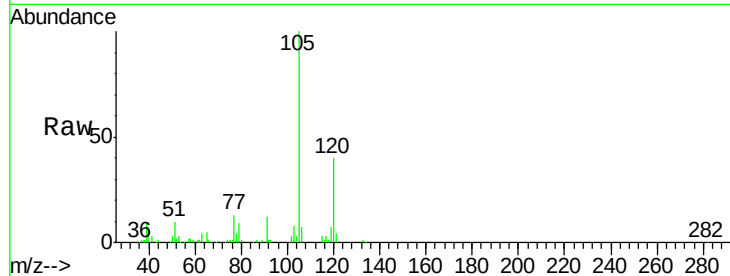
120 39.0 36.2 54.2

Manual Integrations

APPROVED

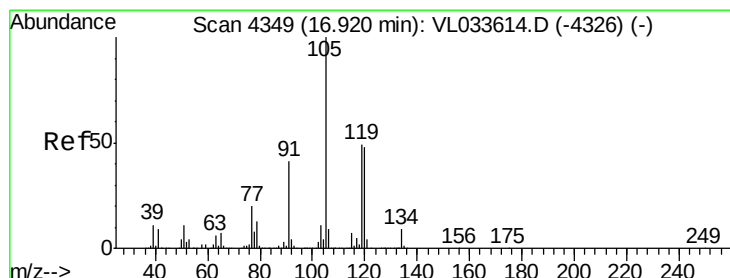
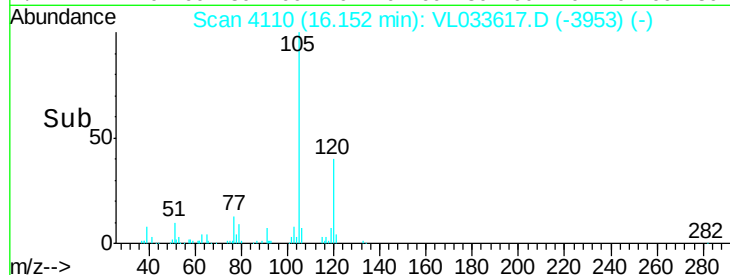
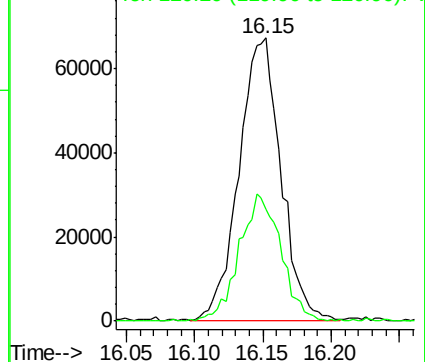
MMDadoda

5/2/2019 4:03:58 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: 0.514 ppbv

RT: 16.91 min Scan# 4347

Delta R.T. -0.01 min

Lab File: VL033617.D

Acq: 1 May 2019 13:52

Tgt Ion:105 Resp: 172370

Ion Ratio Lower Upper

105 100

120 34.6 38.4 57.6#

91 42.8 33.0 49.4

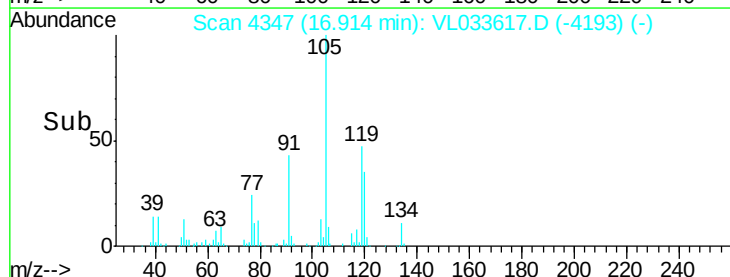
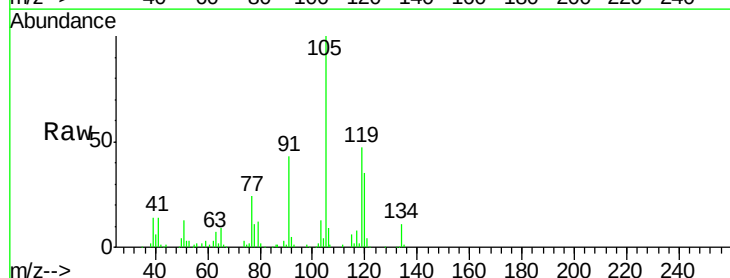
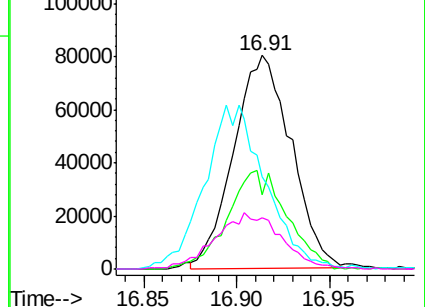
77 23.9 16.2 24.2

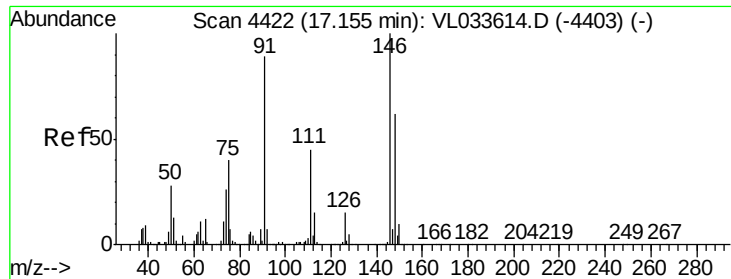
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 0.553 ppbv

RT: 17.15 min Scan# 4422

Delta R.T. 0.00 min

Lab File: VL033617.D

Acq: 1 May 2019 13:52

Instrument :

MSVOA_L

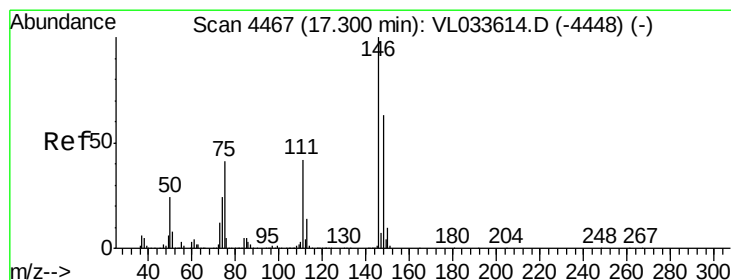
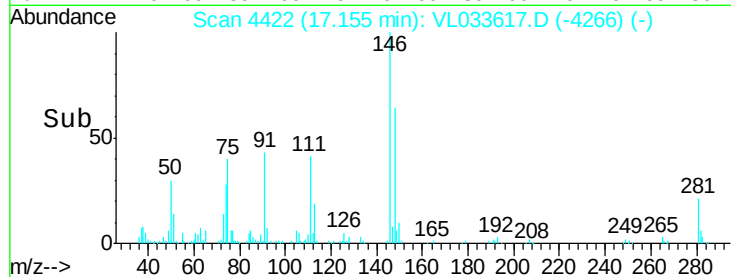
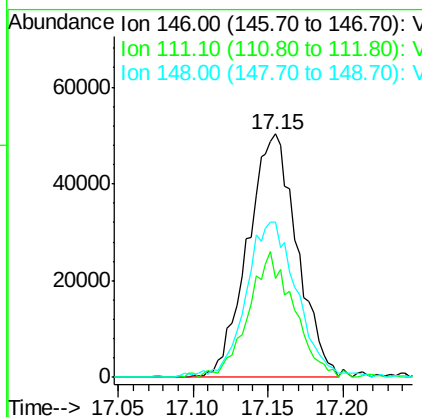
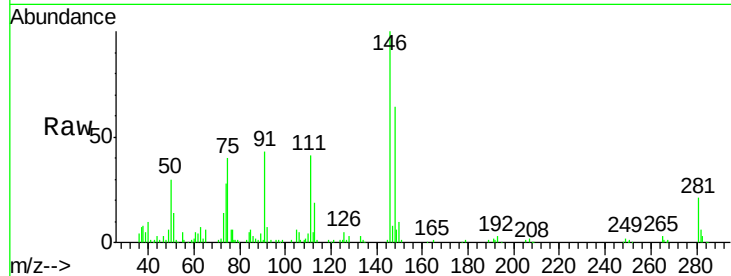
ClientSampleId :

VSTDIC0.5

Tot Ion:	146	Resp:	115424
Ion Ratio	Lower	Upper	
146	100		
111	48.0	22.4	67.2
148	66.5	32.0	96.0

Manual Integrations
APPROVED

MMDadoda
5/2/2019 4:03:58 PM



#76

1,4-Dichlorobenzene

Concen: 0.519 ppbv

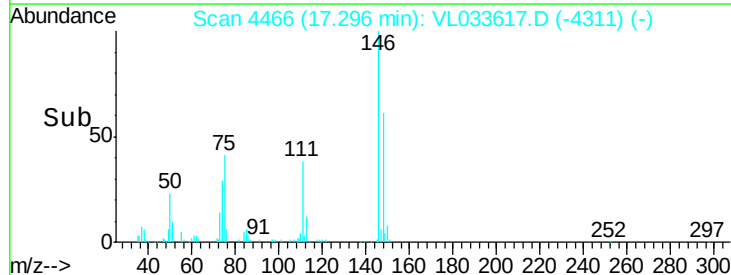
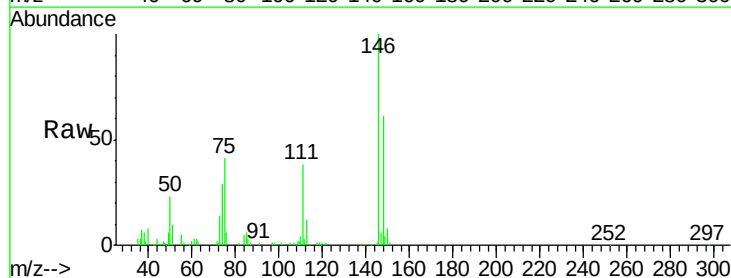
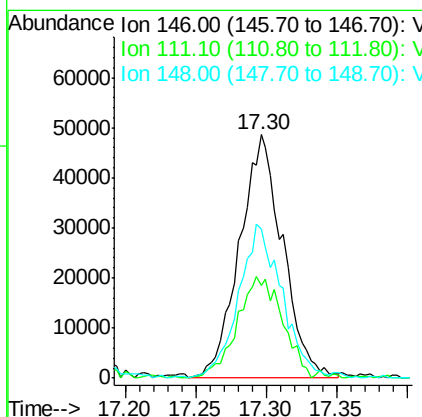
RT: 17.30 min Scan# 4466

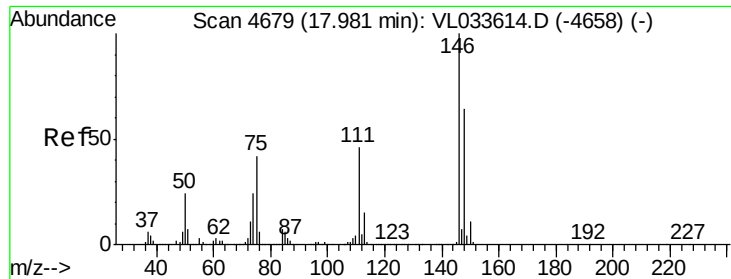
Delta R.T. -0.00 min

Lab File: VL033617.D

Acq: 1 May 2019 13:52

Tgt Ion:	146	Resp:	103411
Ion Ratio	Lower	Upper	
146	100		
111	44.3	21.6	65.0
148	64.6	32.3	96.9





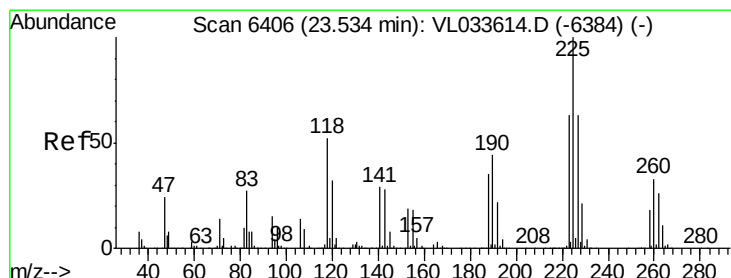
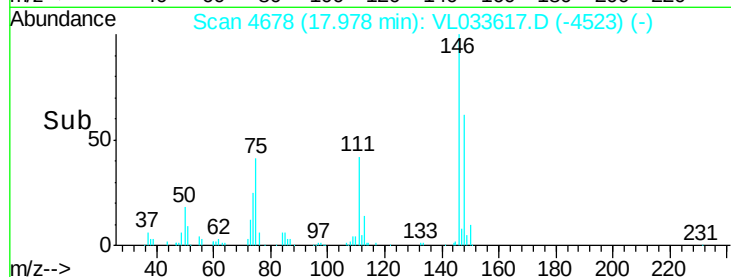
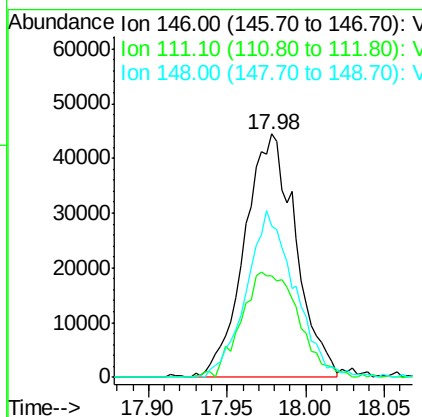
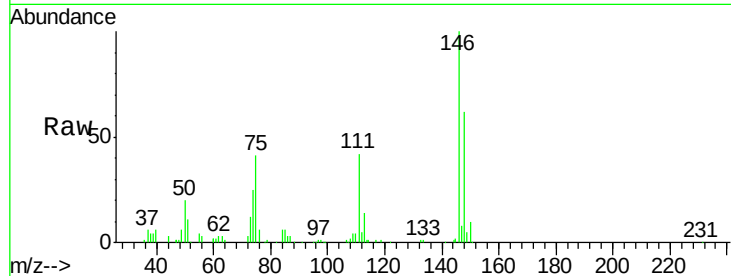
#77
 1,2-Dichlorobenzene
 Concen: 0.518 ppbv m
 RT: 17.98 min Scan# 4678
 Delta R.T. -0.00 min
 Lab File: VL033617.D
 Acq: 1 May 2019 13:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.4	23.3	69.9
148	65.0	32.2	96.6

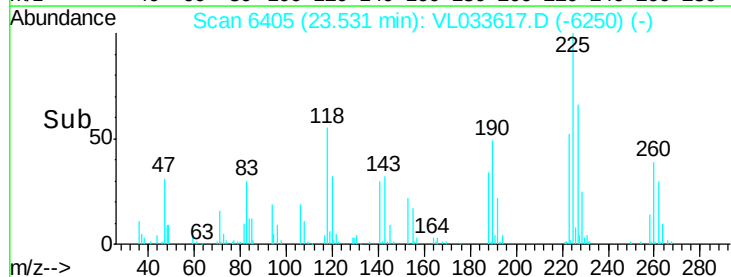
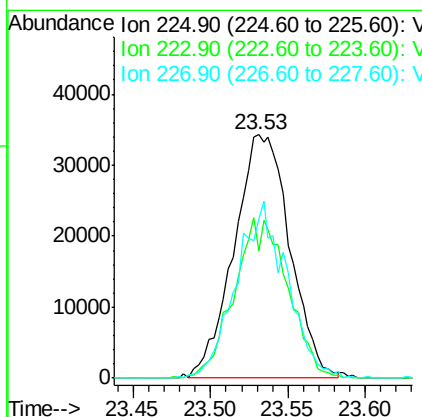
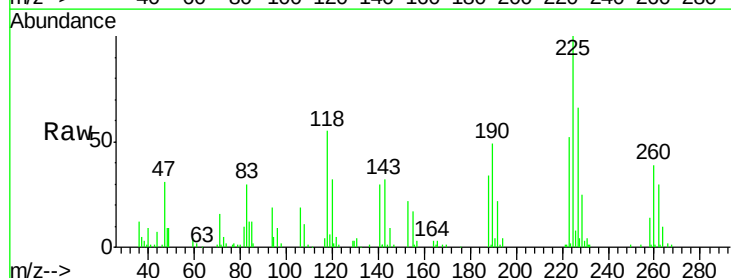
Manual Integrations
 APPROVED

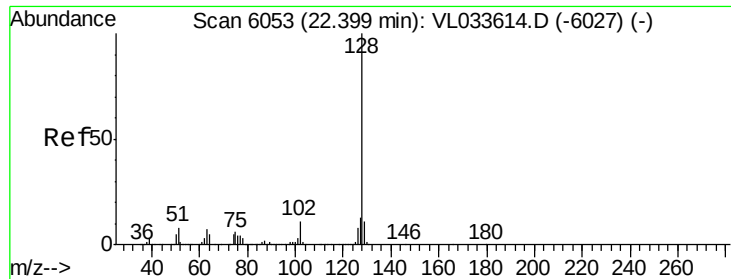
MMDadoda
 5/2/2019 4:03:58 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.580 ppbv
 RT: 23.53 min Scan# 6405
 Delta R.T. -0.00 min
 Lab File: VL033617.D
 Acq: 1 May 2019 13:52

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.3	50.4	75.6
227	65.8	50.7	76.1





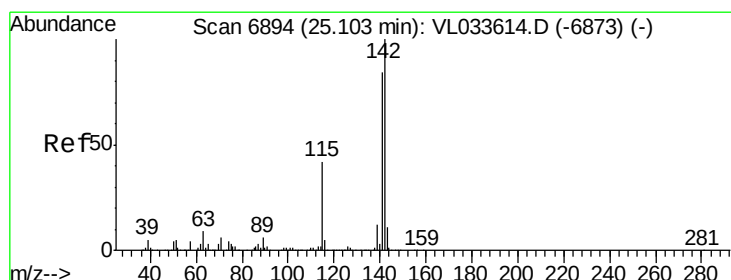
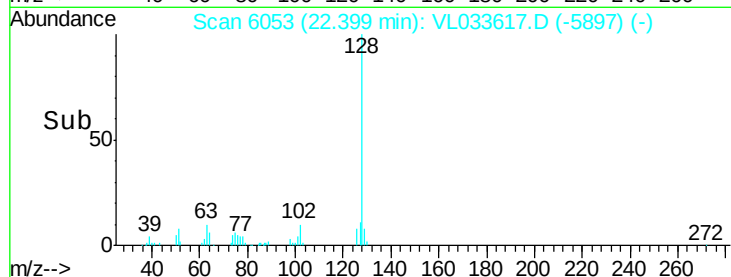
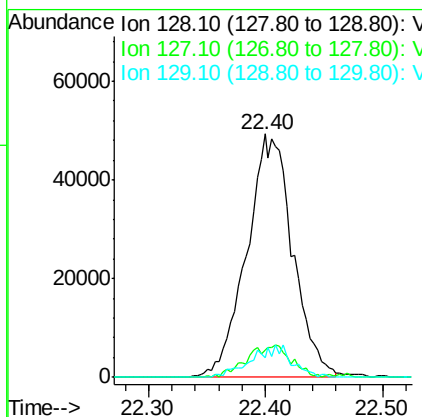
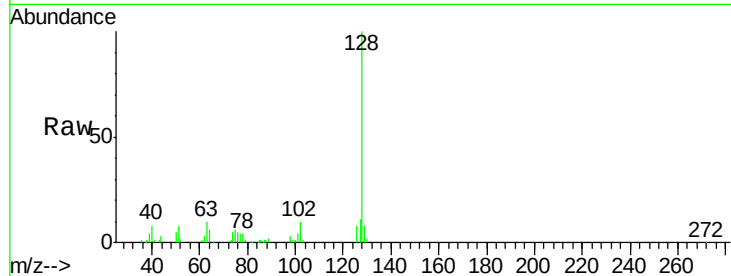
#79
Naphthalene
Concen: 0.434 ppbv m
RT: 22.40 min Scan# 6053
Delta R.T. 0.00 min
Lab File: VL033617.D
Acq: 1 May 2019 13:52

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.0	10.6	16.0
129	8.2	8.6	13.0

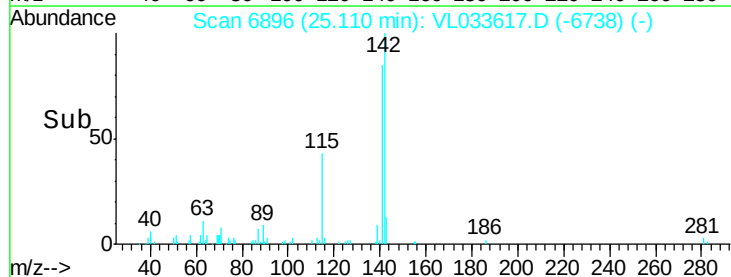
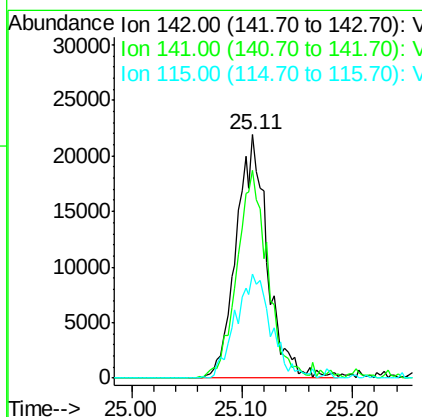
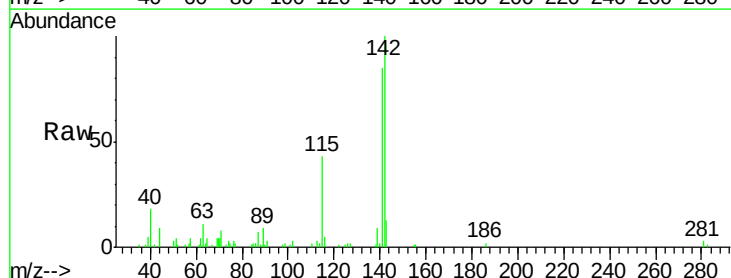
Manual Integrations
APPROVED

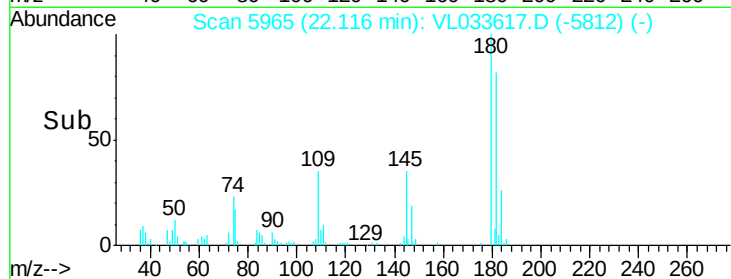
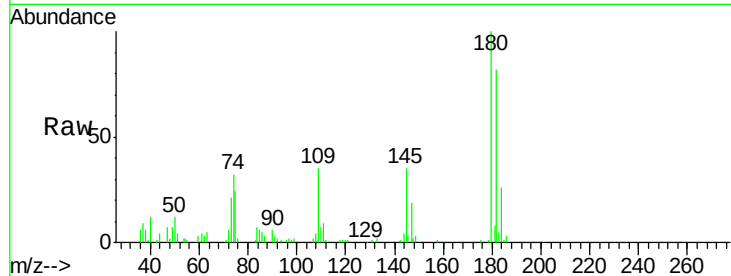
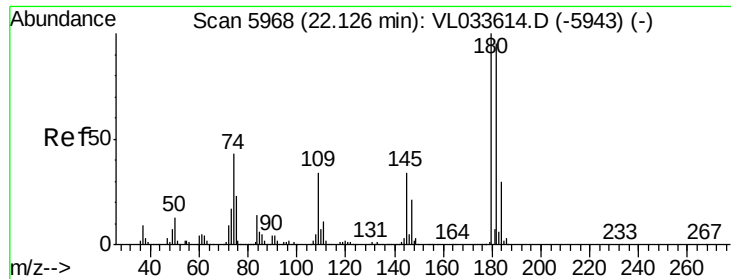
MMDadoda
5/2/2019 4:03:58 PM



#80
Naphthalene, 2-methyl-
Concen: 0.319 ppbv
RT: 25.11 min Scan# 6896
Delta R.T. 0.01 min
Lab File: VL033617.D
Acq: 1 May 2019 13:52

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.1	67.3	100.9
115	48.6	33.8	50.8





#81
 1,2,4-Trichlorobenzene
 Concen: 0.496 ppbv m
 RT: 22.12 min Scan# 5965
 Delta R.T. -0.01 min
 Lab File: VL033617.D
 Acq: 1 May 2019 13:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
180	100	89135		
182	0.0	76.2	114.2#	
184	0.0	24.5	36.7#	

Manual Integrations
 APPROVED

MMDadoda
 5/2/2019 4:03:58 PM

