

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111418\
 Data File : VL032749.D
 Acq On : 14 Nov 2018 6:54
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111418

Manual Integrations
 APPROVED

MMDadoda
 11/16/2018 1:29:50 PM

Quant Time: Nov 14 07:39:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:39:08 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1643570	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	4258676	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	4301622m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	3006378	9.34	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	2046415	8.662	ppbv	99
3) Chlorodifluoromethane	3.02	51	1175715	9.023	ppbv	98
4) Chloromethane	3.18	50	661639	9.157	ppbv	96
5) Vinyl Chloride	3.30	62	674726	8.813	ppbv	98
6) Bromomethane	3.53	94	433007	9.245	ppbv	99
7) Chloroethane	3.61	64	252766	9.160	ppbv	95
8) Dichlorotetrafluoroethane	3.23	85	1603885	8.615	ppbv	99
9) Propene	3.04	41	520628	9.984	ppbv	99
10) Heptane	8.26	43	2015185	10.123	ppbv	99
11) Trichlorofluoromethane	4.01	101	1762272	7.915	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1550953	8.528	ppbv	99
13) Ethanol	3.66	45	135761	7.949	ppbv	97
14) Bromoethene	3.80	108	552051	9.150	ppbv	99
15) Acetone	3.91	43	1140120	7.596	ppbv	100
16) 1,3-Butadiene	3.37	39	563999	9.703	ppbv	94
17) tert-Butyl alcohol	4.37	59	454574	9.656	ppbv	100
18) 1,1-Dichloroethene	4.36	96	788709	8.819	ppbv	99
19) Isopropyl Alcohol	4.03	45	924409	9.245	ppbv	99
20) Methylene Chloride	4.42	84	664542	8.552	ppbv	98
21) Allyl Chloride	4.49	41	1161304	9.207	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	723377	8.284	ppbv	98
23) Vinyl Acetate	5.17	43	2791887	10.204	ppbv	99
24) 1,1-Dichloroethane	5.10	63	2032155	9.342	ppbv	99
25) Ethyl Acetate	5.78	43	3282216	9.382	ppbv	99
26) Hexane	5.79	57	1515064	9.729	ppbv	99
27) Carbon Disulfide	4.63	76	1819256	9.213	ppbv	99
28) Methyl tert-Butyl Ether	5.12	73	2535446	10.210	ppbv	99
29) Chloroform	5.86	83	2495975	8.993	ppbv	98
30) Cyclohexane	7.26	84	1391506	10.217	ppbv	99
31) cis-1,2-Dichloroethene	5.65	61	1585682	10.128	ppbv	98
32) 1,1,1-Trichloroethane	6.63	97	2677486	8.801	ppbv	99
34) 2-Butanone	5.34	43	2163782	9.796	ppbv	100
35) Carbon Tetrachloride	7.14	117	2856173	8.343	ppbv	99
36) Benzene	7.02	78	3335133	9.835	ppbv	99
37) 1,2-Dichloroethane	6.43	62	2027611	8.882	ppbv	98
38) Trichloroethene	7.97	130	1287114	9.378	ppbv	96
39) 1,2-Dichloropropane	7.75	63	1250381	9.677	ppbv	96
40) 1,4-Dioxane	7.97	88	505600m	10.956	ppbv	
41) Tetrahydrofuran	6.16	42	1324811	10.456	ppbv	99
42) Bromodichloromethane	7.93	83	2853227	9.220	ppbv	97
43) Methyl Methacrylate	8.15	69	1322861	10.449	ppbv	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111418\
 Data File : VL032749.D
 Acq On : 14 Nov 2018 6:54
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111418

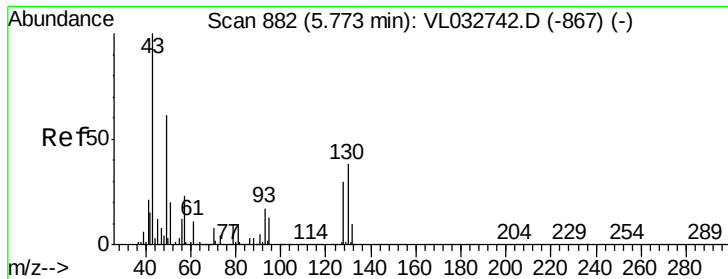
Manual Integrations
 APPROVED

MMDadoda
 11/16/2018 1:29:50 PM

Quant Time: Nov 14 07:39:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:39:08 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	5482199	9.674	ppbv	99
45) t-1,3-Dichloropropene	9.43	75	1965256	11.568	ppbv	97
46) cis-1,3-Dichloropropene	8.85	75	2242546	10.926	ppbv	96
47) 1,1,2-Trichloroethane	9.63	97	1457401	9.539	ppbv	98
48) Dibromochloromethane	10.46	129	2636160	10.152	ppbv	99
49) Bromoform	13.22	173	2016598	9.403	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	3443263	9.981	ppbv	100
51) 2-Hexanone	10.28	43	2435723	10.959	ppbv	99
52) Tetrachloroethene	11.38	164	1152873	9.773	ppbv	96
53) Toluene	9.96	91	3796220	10.730	ppbv	100
54) 1,2-Dibromoethane	10.77	107	2115826	9.797	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.29	131	1700949	8.478	ppbv	100
57) Chlorobenzene	12.31	112	2843711	8.636	ppbv	98
58) Ethyl Benzene	12.87	91	5097509	9.847	ppbv	99
59) m/p-Xylene	13.14	91	8485889m	18.413	ppbv	
60) o-Xylene	13.86	91	4106229	8.861	ppbv	99
61) Styrene	13.70	104	3193424	10.586	ppbv	99
62) Isopropylbenzene	14.83	105	5782282	9.232	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.85	83	2850949	7.892	ppbv	100
64) n-propylbenzene	15.73	120	1541827	9.359	ppbv	100
65) tert-Butylbenzene	16.92	119	5232512	9.319	ppbv	99
66) Benzyl Chloride	17.17	91	3197600	10.301	ppbv	100
67) sec-Butylbenzene	17.47	105	7368347	9.106	ppbv	100
69) p-Isopropyltoluene	17.83	119	6058493	9.417	ppbv	99
70) n-Butylbenzene	18.72	91	6084416	9.314	ppbv	100
71) 2-Chlorotoluene	15.62	91	4547115	9.735	ppbv	99
72) 4-Ethyltoluene	16.01	105	4917524	9.682	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	4674223	9.412	ppbv	99
74) 1,2,4-Trimethylbenzene	16.94	105	4700239	8.845	ppbv	97
75) 1,3-Dichlorobenzene	17.18	146	2638069	8.654	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	2617784	9.194	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	2537752	8.999	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1120085	7.360	ppbv	100
79) Naphthalene	22.42	128	3670774	10.515	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	1138962	13.027	ppbv	100
81) 1,2,4-Trichlorobenzene	22.15	180	1782982	10.171	ppbv	98

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 882

Delta R.T. 0.00 min

Lab File: VL032749.D

Acq: 14 Nov 2018 6:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL111418

Tot Ion: 49 Resp: 1643570

Ion Ratio Lower Upper

49 100

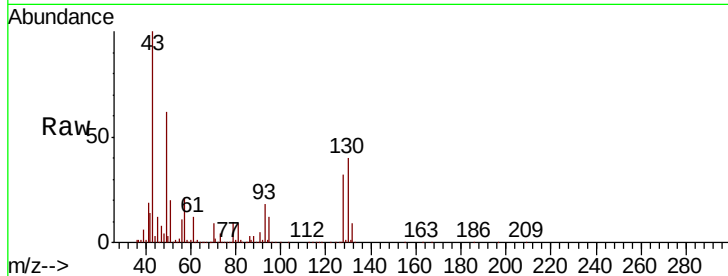
128 49.9 24.9 74.6

130 63.9 31.4 94.2

Manual Integrations
APPROVED

MMDadoda

11/16/2018 1:29:50 PM

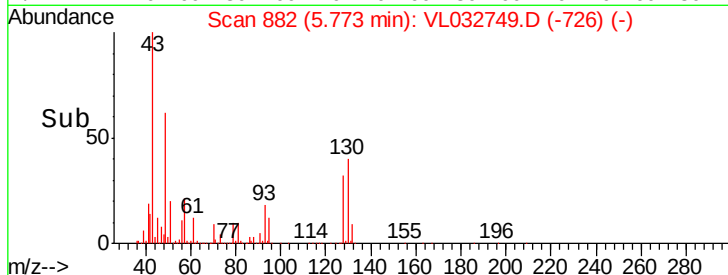


Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

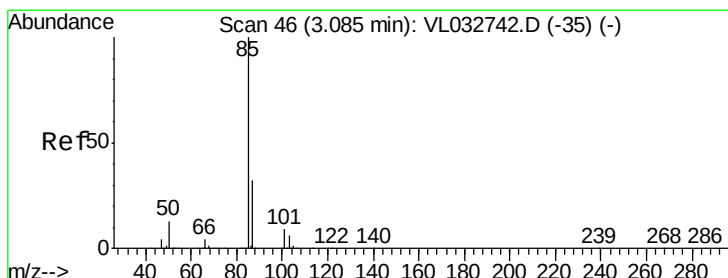
Ion 130.00 (129.70 to 130.70): V

Time-->



5.77

Time-->



#2

Dichlorodifluoromethane

Concen: 8.662 ppbv

RT: 3.08 min Scan# 46

Delta R.T. 0.00 min

Lab File: VL032749.D

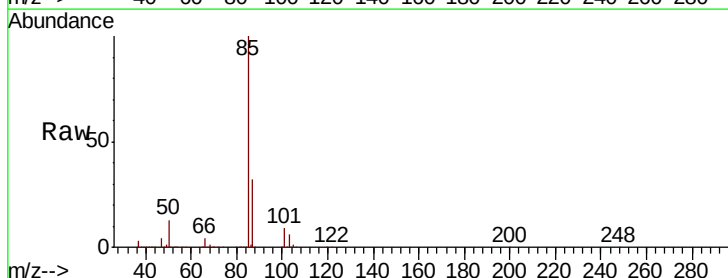
Acq: 14 Nov 2018 6:54

Tgt Ion: 85 Resp: 2046415

Ion Ratio Lower Upper

85 100

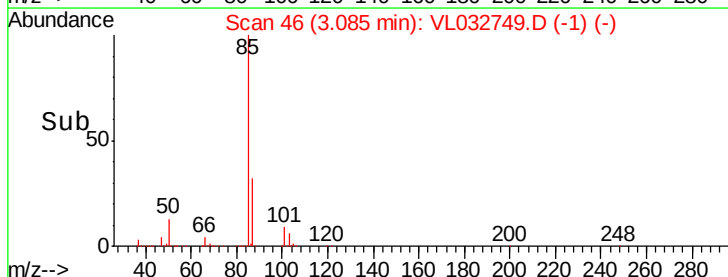
87 31.7 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

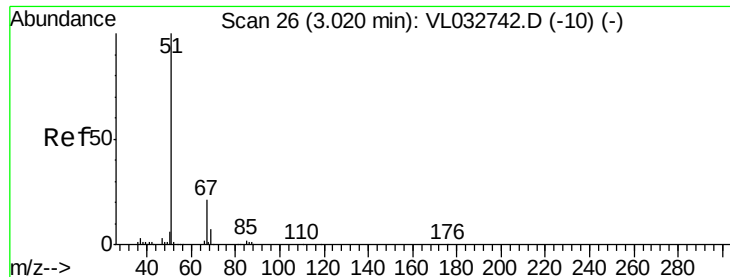
Ion 87.00 (86.70 to 87.70): VL0

Time-->



3.08

Time-->



#3

Chlorodifluoromethane

Concen: 9.023 ppbv

RT: 3.02 min Scan# 27

Delta R.T. 0.00 min

Lab File: VL032749.D

Acq: 14 Nov 2018 6:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL111418

Tot Ion: 51 Resp: 1175715

Ion Ratio Lower Upper

51 100

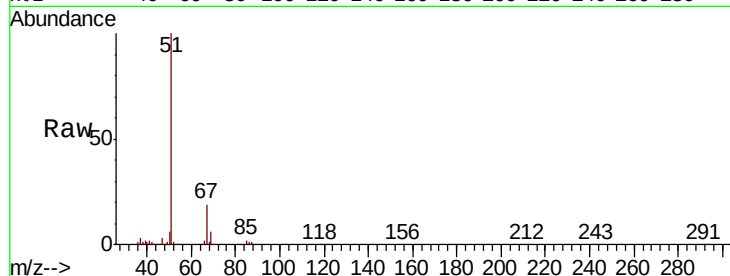
67 19.1 16.1 24.1

Manual Integrations

APPROVED

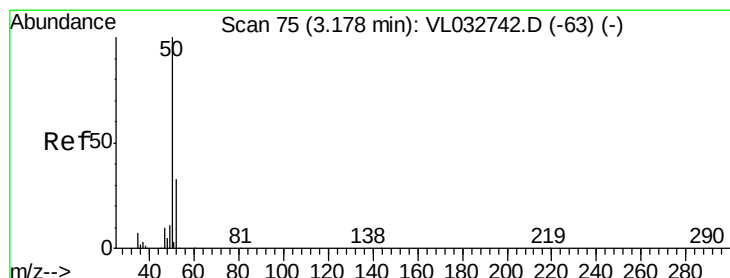
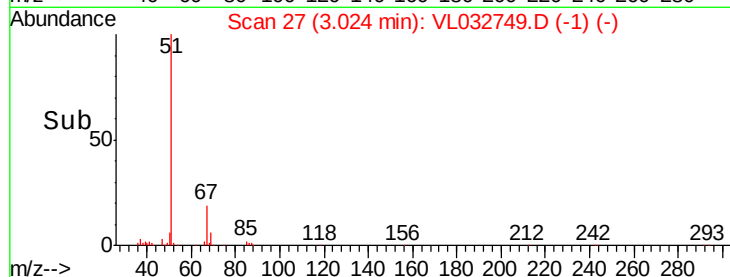
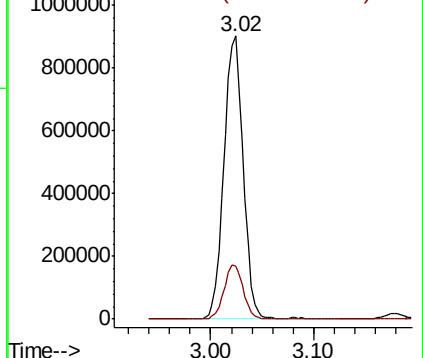
MMDadoda

11/16/2018 1:29:50 PM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.157 ppbv

RT: 3.18 min Scan# 75

Delta R.T. 0.00 min

Lab File: VL032749.D

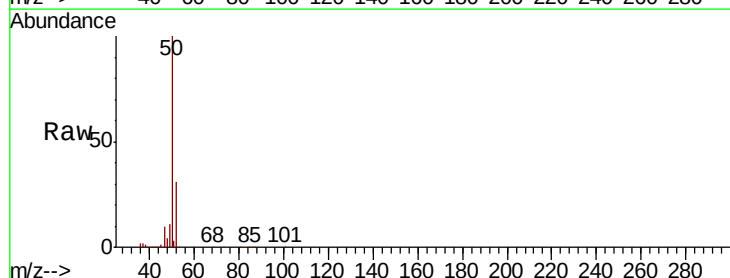
Acq: 14 Nov 2018 6:54

Tgt Ion: 50 Resp: 661639

Ion Ratio Lower Upper

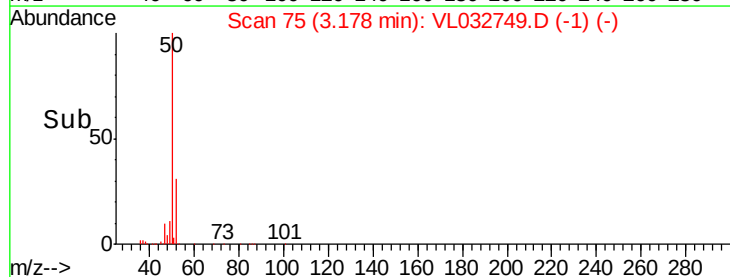
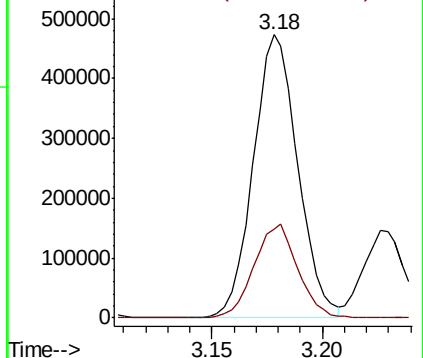
50 100

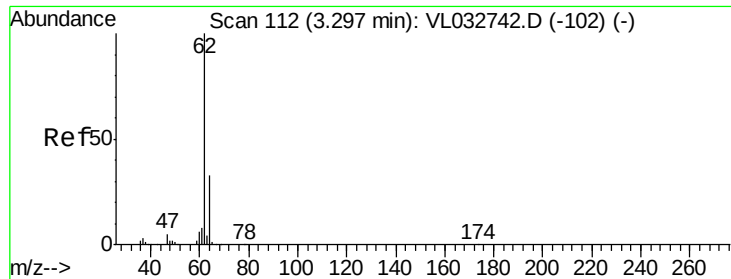
52 31.2 26.6 40.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.813 ppbv

RT: 3.30 min Scan# 113

Delta R.T. 0.00 min

Lab File: VL032749.D

Acq: 14 Nov 2018 6:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL111418

Tot Ion: 62 Resp: 674726

Ion Ratio Lower Upper

62 100

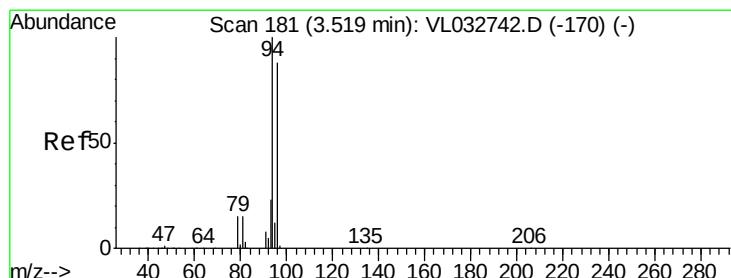
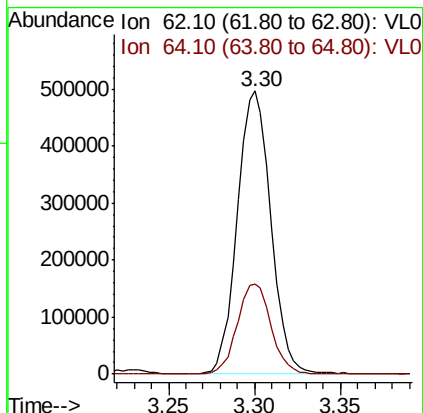
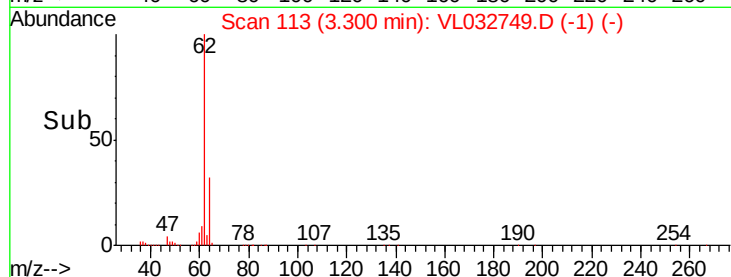
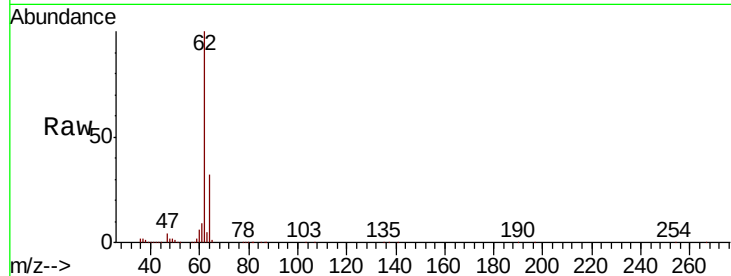
64 31.8 26.2 39.4

Manual Integrations

APPROVED

MMDadoda

11/16/2018 1:29:50 PM



#6

Bromomethane

Concen: 9.245 ppbv

RT: 3.53 min Scan# 183

Delta R.T. 0.01 min

Lab File: VL032749.D

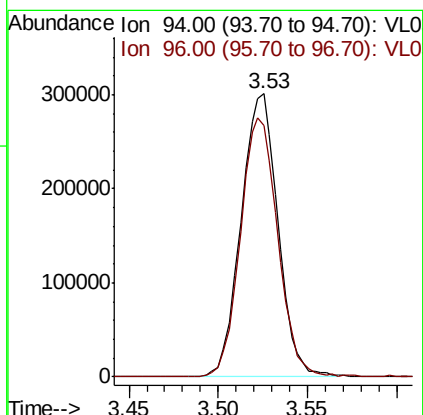
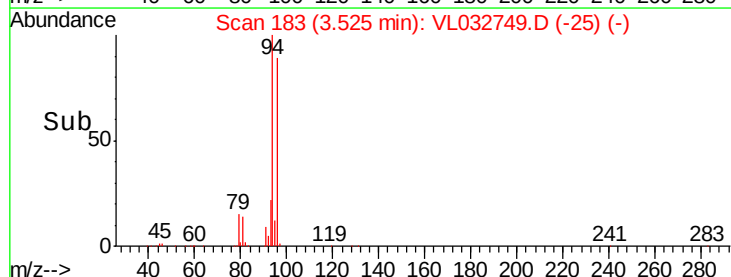
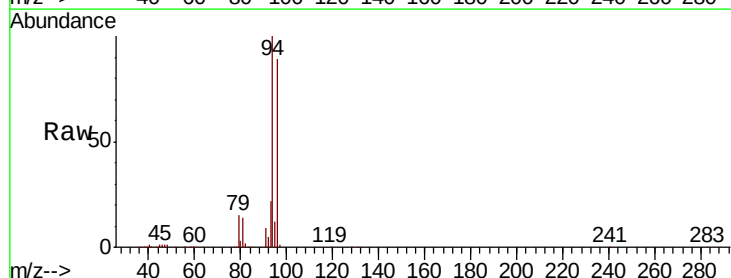
Acq: 14 Nov 2018 6:54

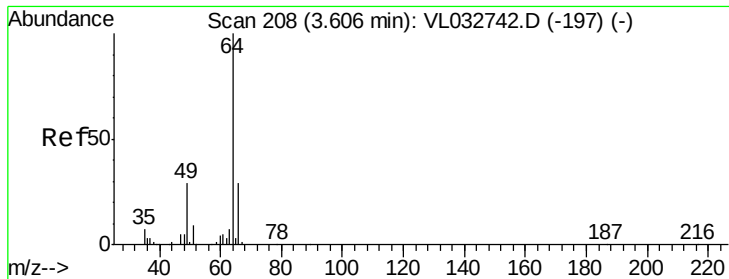
Tgt Ion: 94 Resp: 433007

Ion Ratio Lower Upper

94 100

96 88.9 70.2 105.2





#7

Chloroethane

Concen: 9.160 ppbv

RT: 3.61 min Scan# 209

Delta R.T. 0.00 min

Lab File: VL032749.D

Acq: 14 Nov 2018 6:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL111418

Tot Ion: 64 Resp: 252766

Ion Ratio Lower Upper

64 100

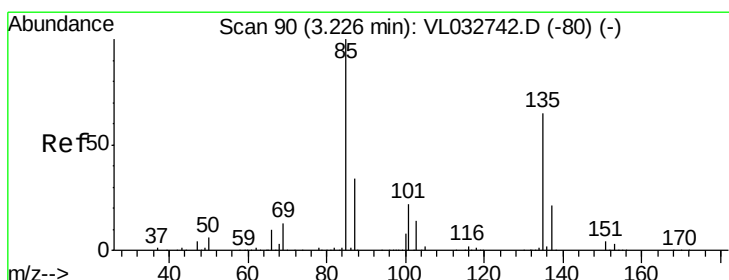
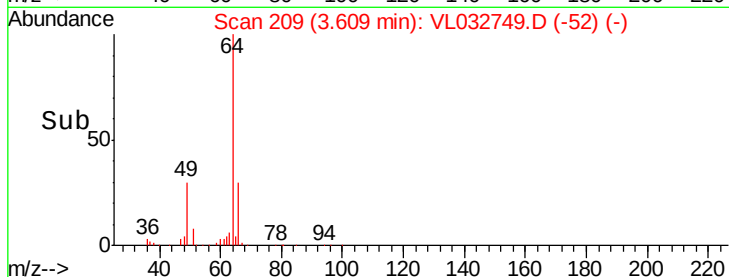
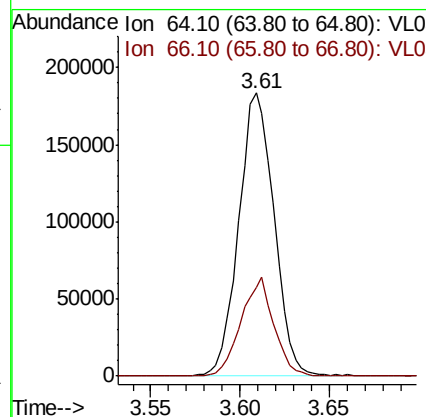
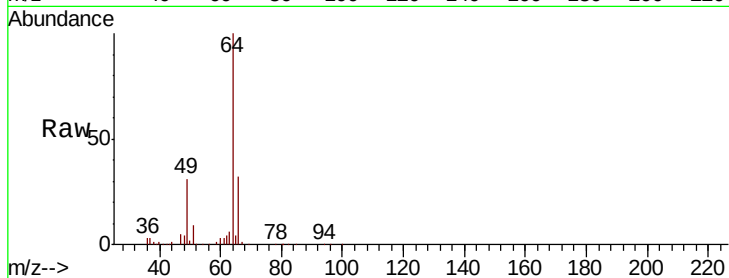
66 31.5 23.2 34.8

Manual Integrations

APPROVED

MMDadoda

11/16/2018 1:29:50 PM



#8

Dichlorotetrafluoroethane

Concen: 8.615 ppbv

RT: 3.23 min Scan# 90

Delta R.T. 0.00 min

Lab File: VL032749.D

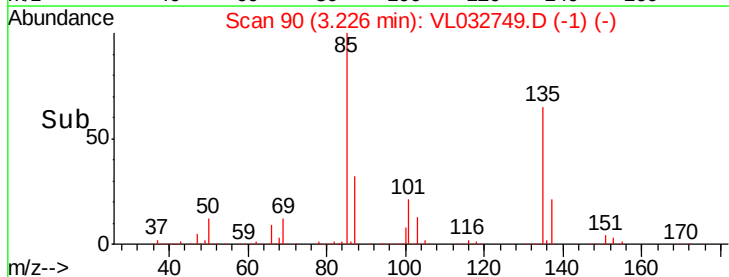
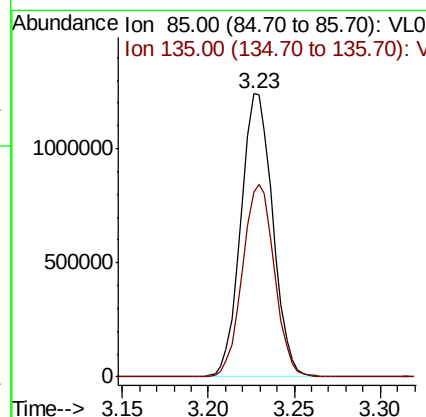
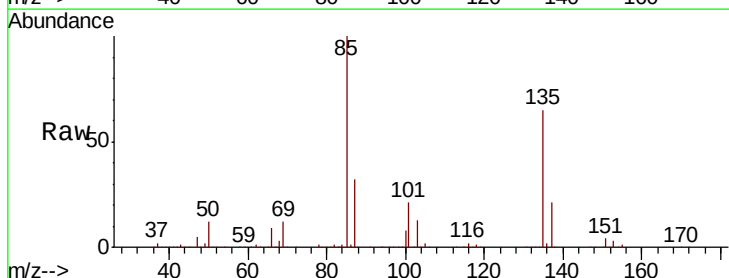
Acq: 14 Nov 2018 6:54

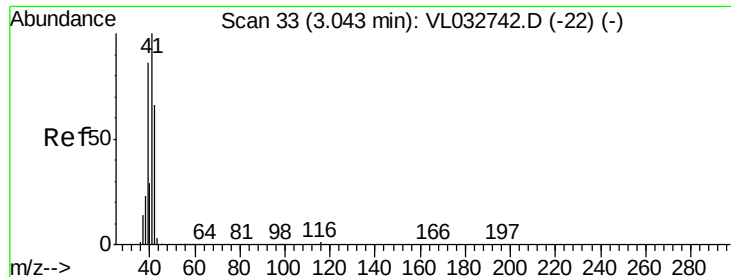
Tgt Ion: 85 Resp: 1603885

Ion Ratio Lower Upper

85 100

135 68.1 53.8 80.8





#9

Propene

Concen: 9.984 ppbv

RT: 3.04 min Scan# 33

Delta R.T. 0.00 min

Lab File: VL032749.D

Acq: 14 Nov 2018 6:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL111418

Tot Ion: 41 Resp: 520628

Ion Ratio Lower Upper

41 100

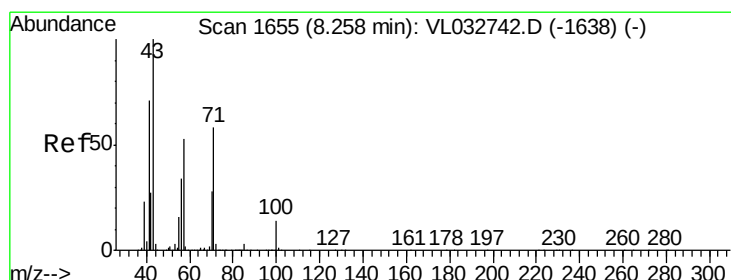
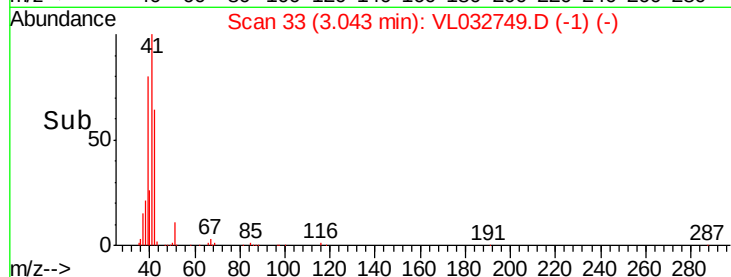
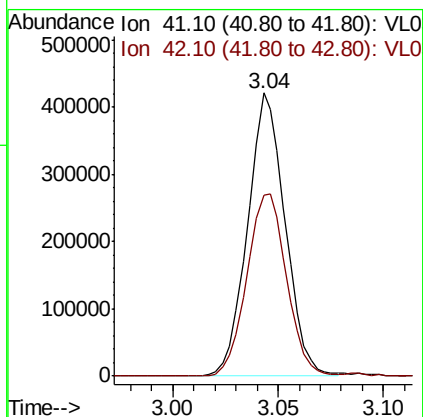
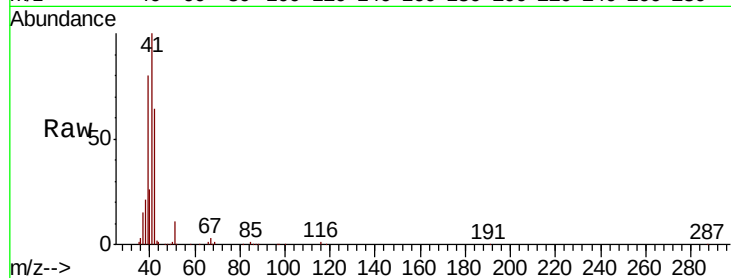
42 69.2 55.0 82.6

Manual Integrations

APPROVED

MMDadoda

11/16/2018 1:29:50 PM



#10

Heptane

Concen: 10.123 ppbv

RT: 8.26 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VL032749.D

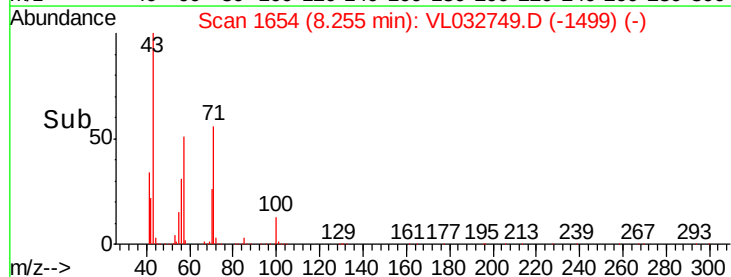
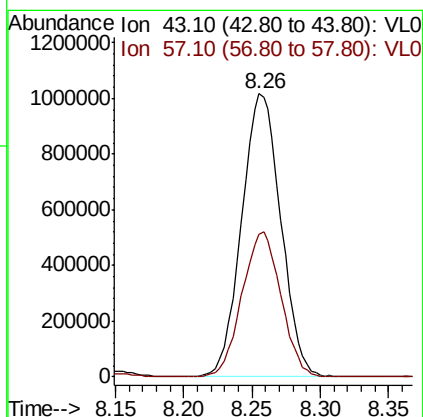
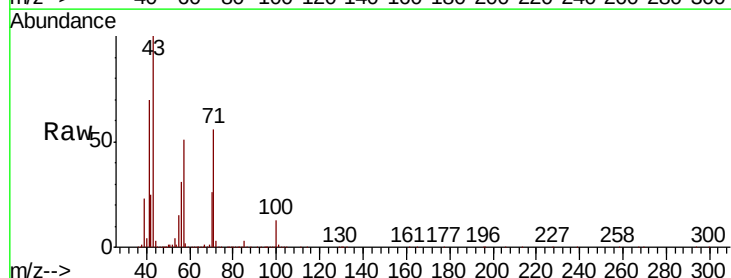
Acq: 14 Nov 2018 6:54

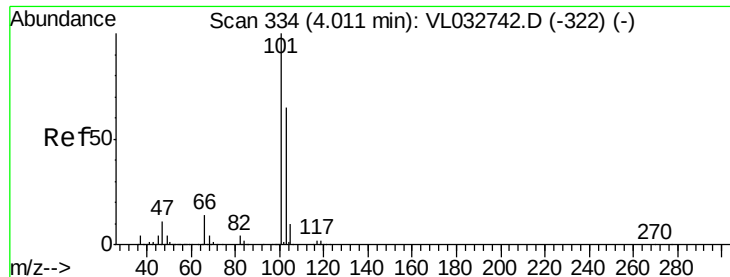
Tgt Ion: 43 Resp: 2015185

Ion Ratio Lower Upper

43 100

57 51.4 41.8 62.8





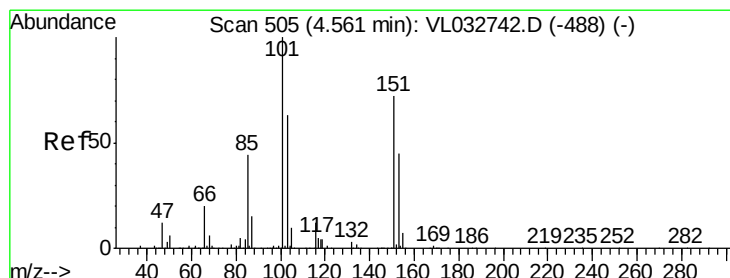
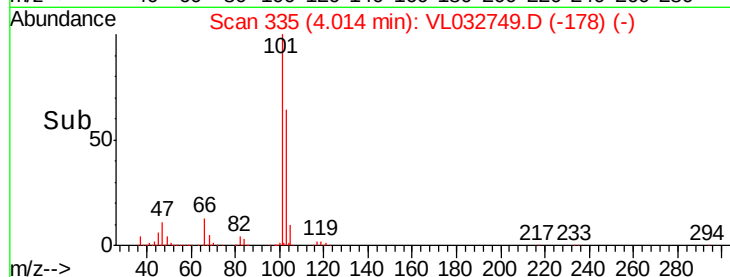
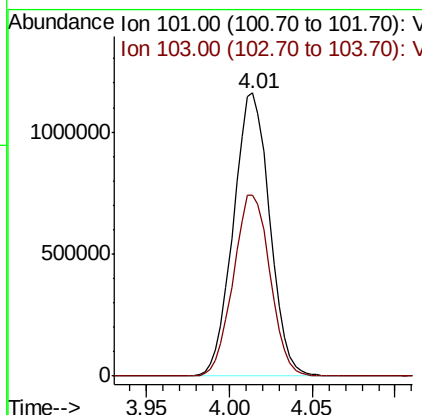
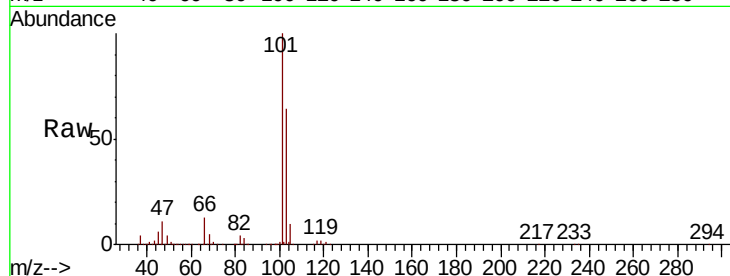
#11
 Trichlorofluoromethane
 Concen: 7.915 ppbv
 RT: 4.01 min Scan# 335
 Delta R.T. 0.00 min
 Lab File: VL032749.D
 Acq: 14 Nov 2018 6:54

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111418

Tot Ion:101 Resp: 1762272
 Ion Ratio Lower Upper
 101 100
 103 63.9 51.6 77.4

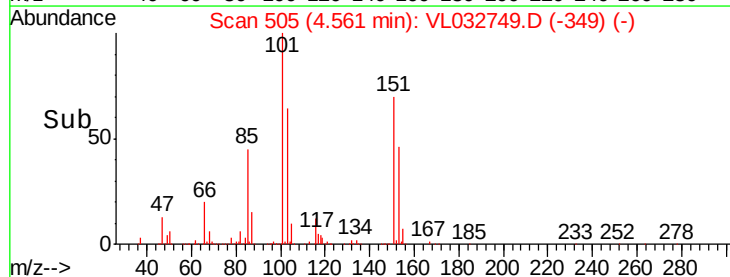
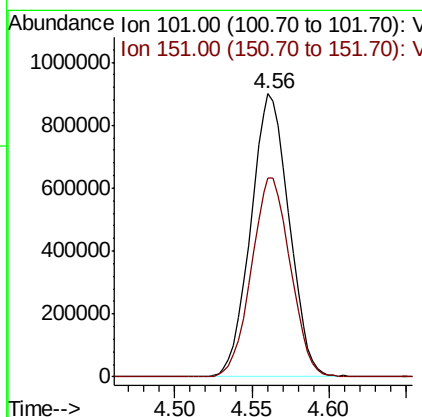
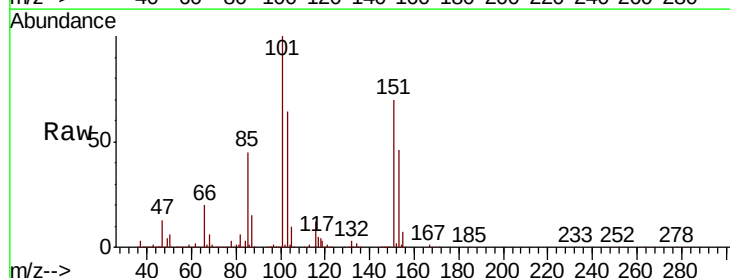
Manual Integrations
 APPROVED

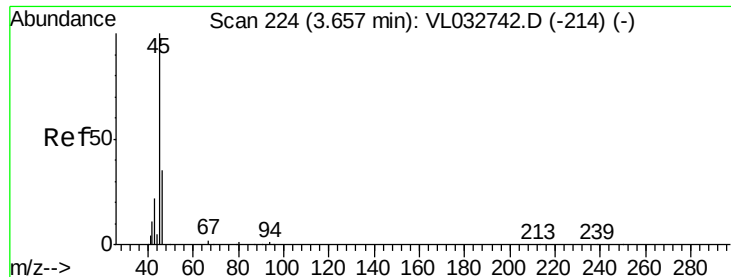
MMDadoda
 11/16/2018 1:29:50 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.528 ppbv
 RT: 4.56 min Scan# 505
 Delta R.T. 0.00 min
 Lab File: VL032749.D
 Acq: 14 Nov 2018 6:54

Tgt Ion:101 Resp: 1550953
 Ion Ratio Lower Upper
 101 100
 151 71.6 56.7 85.1





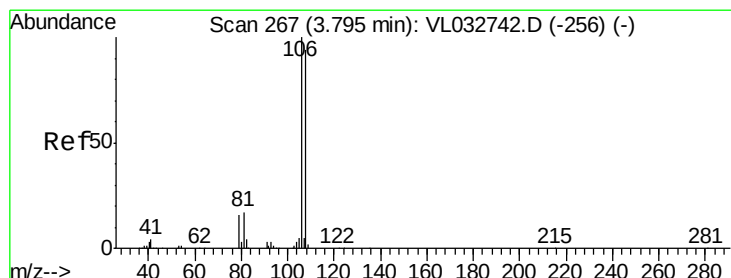
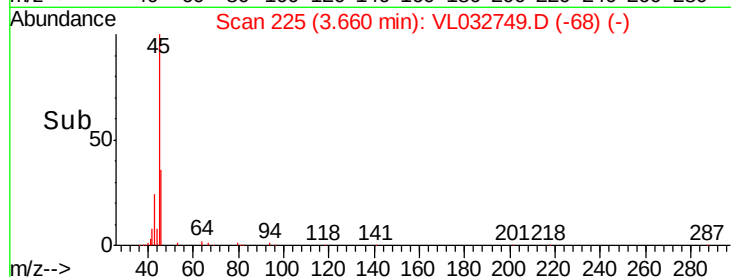
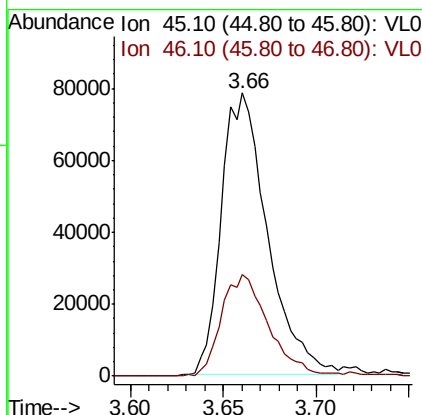
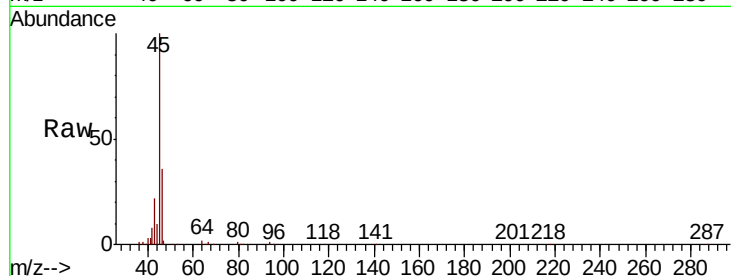
#13
Ethanol
Concen: 7.949 ppbv
RT: 3.66 min Scan# 225
Delta R.T. 0.00 min
Lab File: VL032749.D
Acq: 14 Nov 2018 6:54

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111418

Tot Ion	Ratio	Lower	Upper
45	100		
46	38.1	14.5	57.9

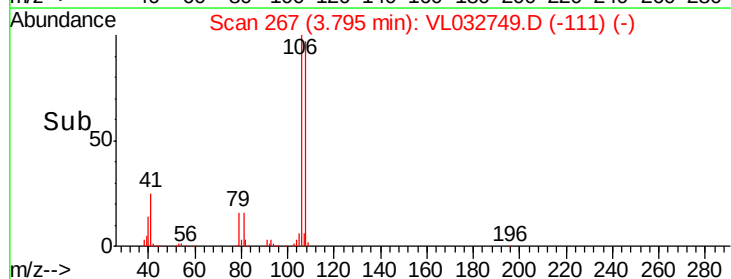
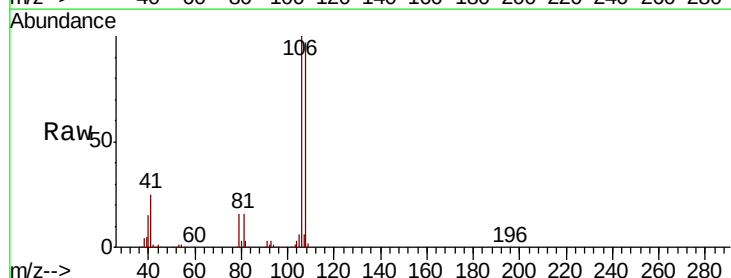
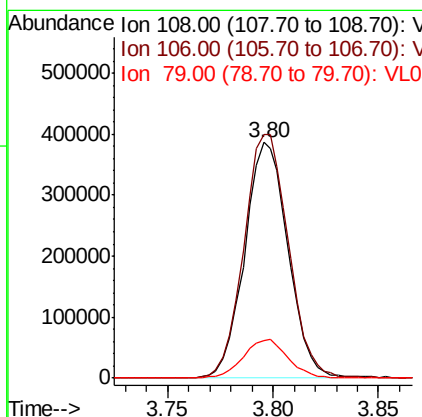
Manual Integrations
APPROVED

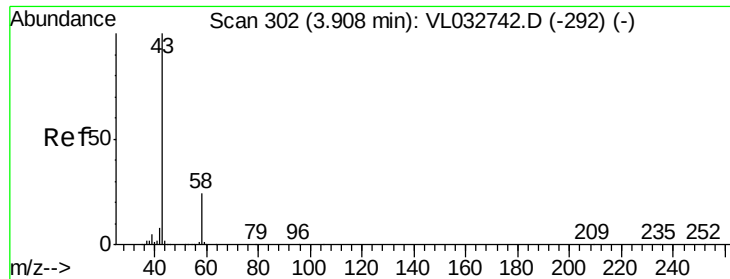
MMDadoda
11/16/2018 1:29:50 PM



#14
Bromoethene
Concen: 9.150 ppbv
RT: 3.80 min Scan# 267
Delta R.T. 0.00 min
Lab File: VL032749.D
Acq: 14 Nov 2018 6:54

Tgt Ion	Ratio	Lower	Upper
108	100		
106	107.2	84.9	127.3
79	17.0	14.2	21.4





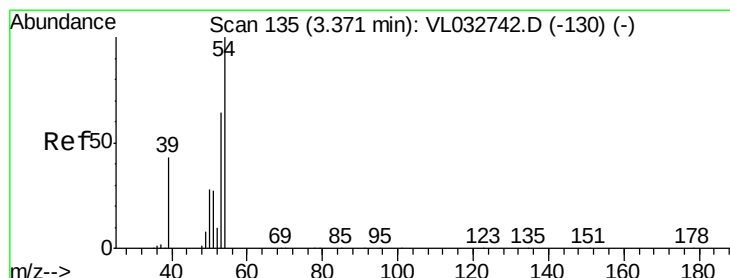
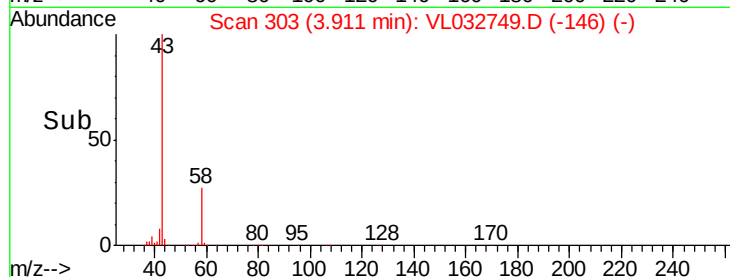
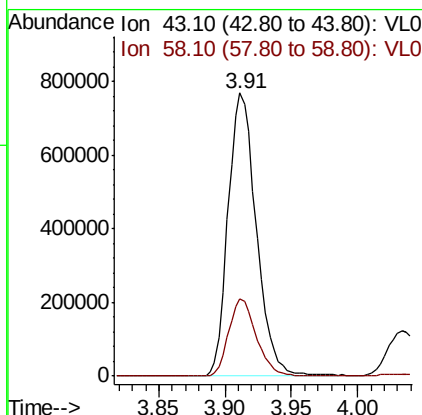
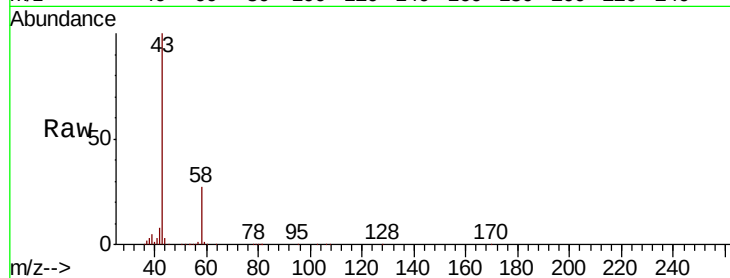
#15
Acetone
Concen: 7.596 ppbv
RT: 3.91 min Scan# 303
Delta R.T. 0.00 min
Lab File: VL032749.D
Acq: 14 Nov 2018 6:54

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111418

Tot Ion: 43 Resp: 1140120
Ion Ratio Lower Upper
43 100
58 26.6 21.1 31.7

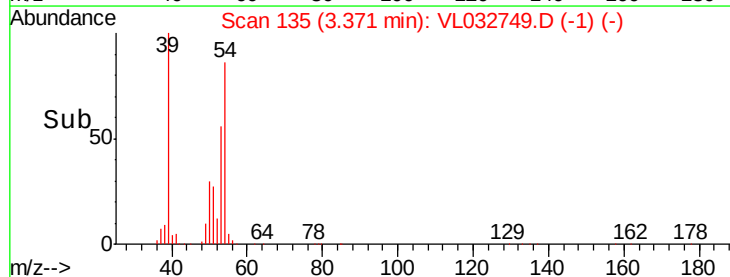
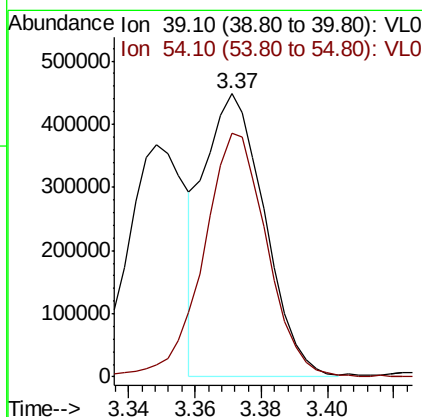
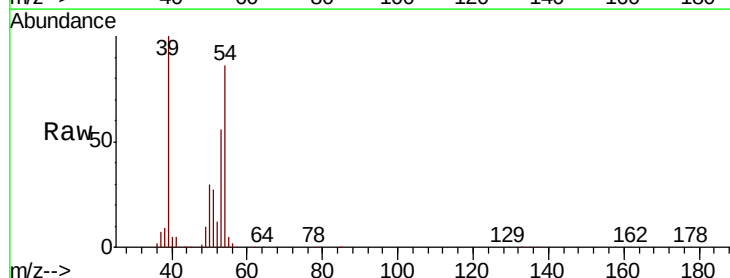
Manual Integrations
APPROVED

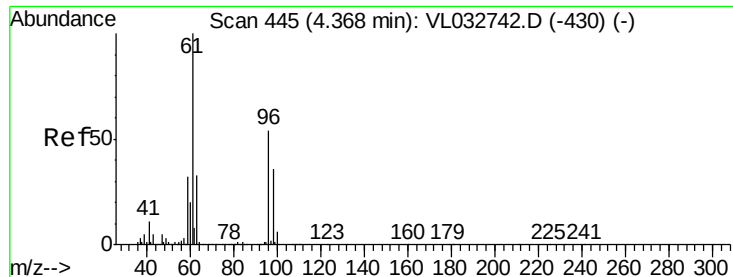
MMDadoda
11/16/2018 1:29:50 PM



#16
1,3-Butadiene
Concen: 9.703 ppbv
RT: 3.37 min Scan# 135
Delta R.T. 0.00 min
Lab File: VL032749.D
Acq: 14 Nov 2018 6:54

Tgt Ion: 39 Resp: 563999
Ion Ratio Lower Upper
39 100
54 91.3 68.9 103.3





#17

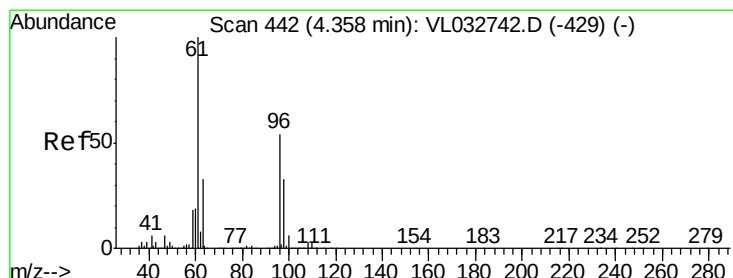
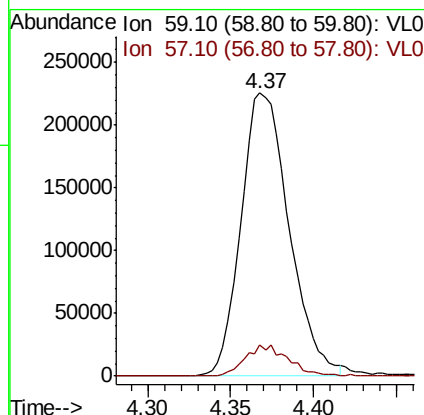
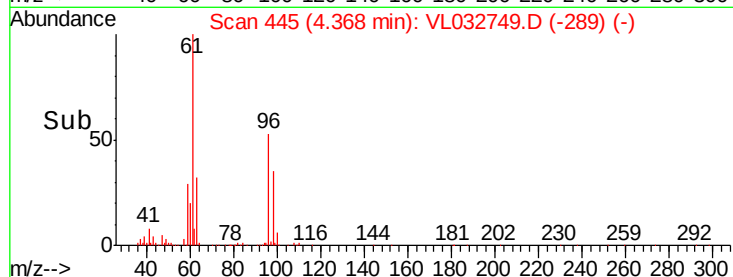
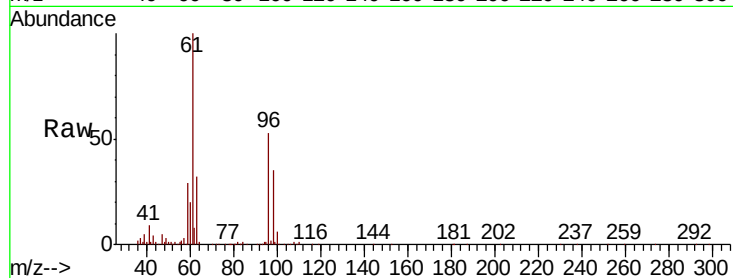
tert-Butyl alcohol
Concen: 9.656 ppbv
RT: 4.37 min Scan# 445
Delta R.T. 0.00 min
Lab File: VL032749.D
Acq: 14 Nov 2018 6:54

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111418

Tot Ion: 59 Resp: 454574
Ion Ratio Lower Upper
59 100
57 10.0 7.8 11.8

Manual Integrations
APPROVED

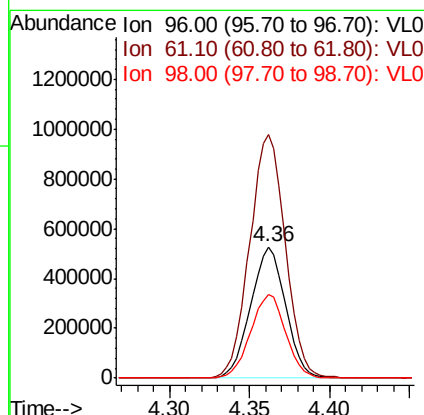
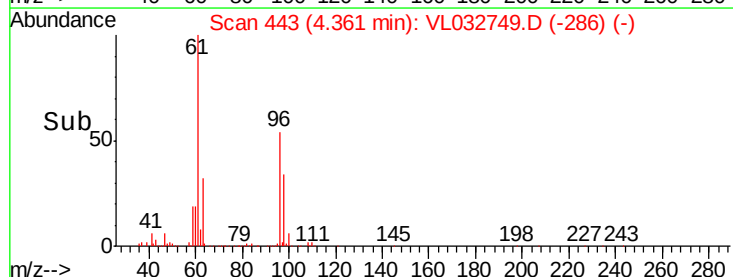
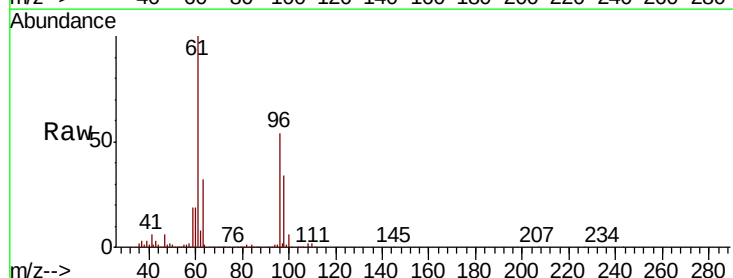
MMDadoda
11/16/2018 1:29:50 PM

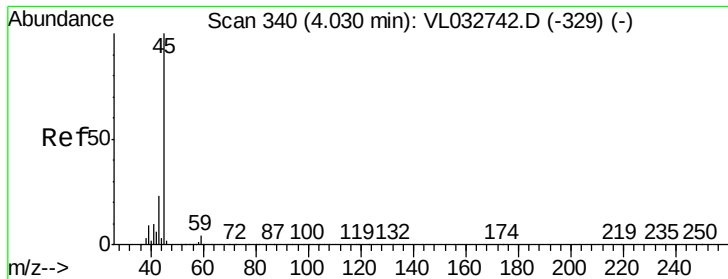


#18

1,1-Dichloroethene
Concen: 8.819 ppbv
RT: 4.36 min Scan# 443
Delta R.T. 0.00 min
Lab File: VL032749.D
Acq: 14 Nov 2018 6:54

Tgt Ion: 96 Resp: 788709
Ion Ratio Lower Upper
96 100
61 185.9 148.5 222.7
98 63.9 48.6 72.8





#19

Isopropyl Alcohol

Concen: 9.245 ppbv

RT: 4.03 min Scan# 341

Delta R.T. 0.00 min

Lab File: VL032749.D

Acq: 14 Nov 2018 6:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL111418

Tot Ion: 45 Resp: 924409

Ion Ratio Lower Upper

45 100

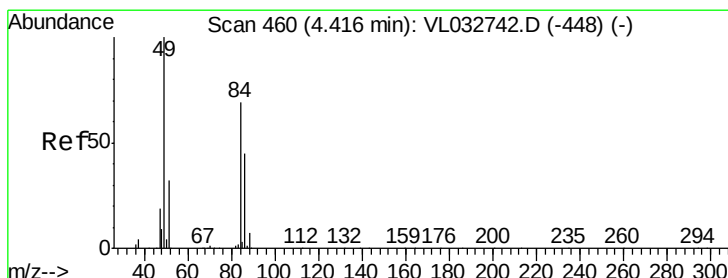
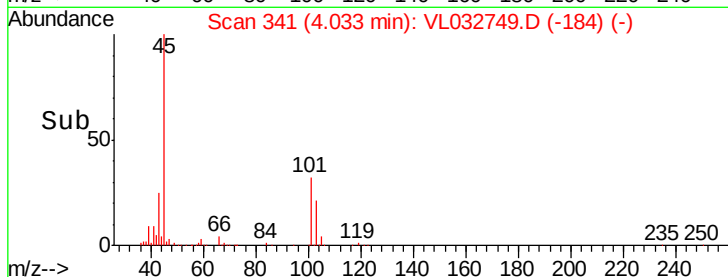
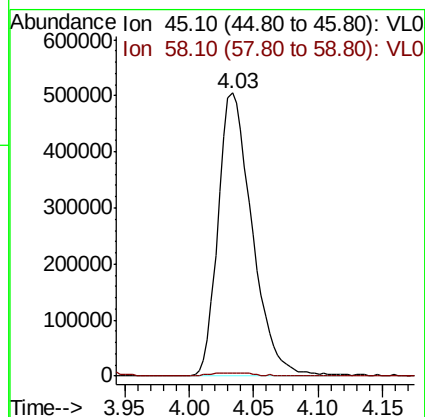
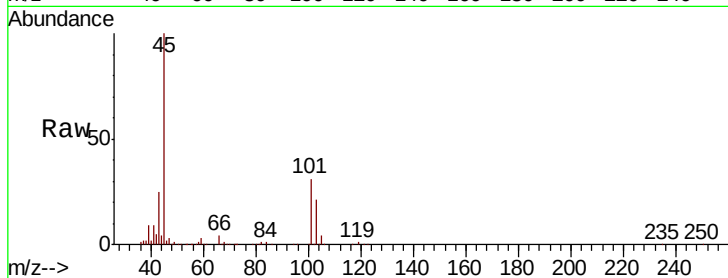
58 1.5 1.4 2.0

Manual Integrations

APPROVED

MMDadoda

11/16/2018 1:29:50 PM



#20

Methylene Chloride

Concen: 8.552 ppbv

RT: 4.42 min Scan# 461

Delta R.T. 0.00 min

Lab File: VL032749.D

Acq: 14 Nov 2018 6:54

Tgt Ion: 84 Resp: 664542

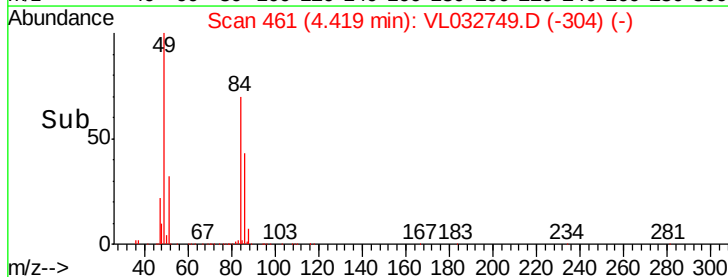
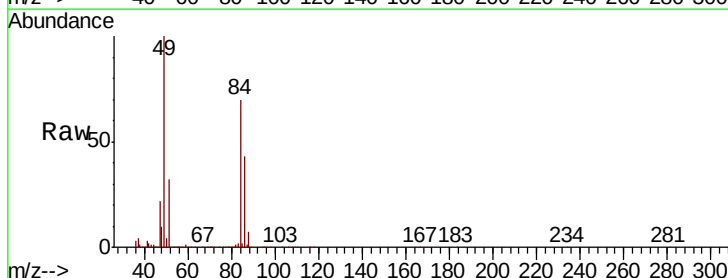
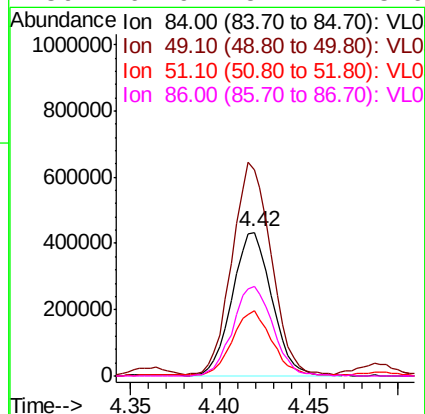
Ion Ratio Lower Upper

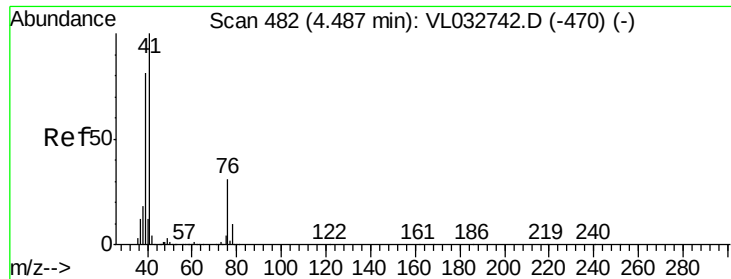
84 100

49 142.4 115.8 173.6

51 45.4 36.9 55.3

86 61.9 52.4 78.6





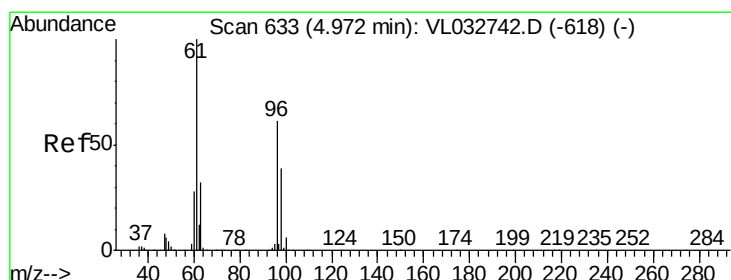
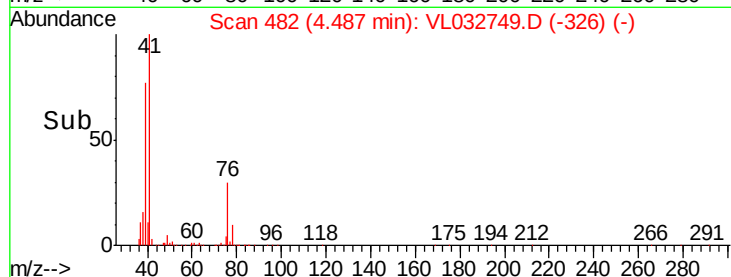
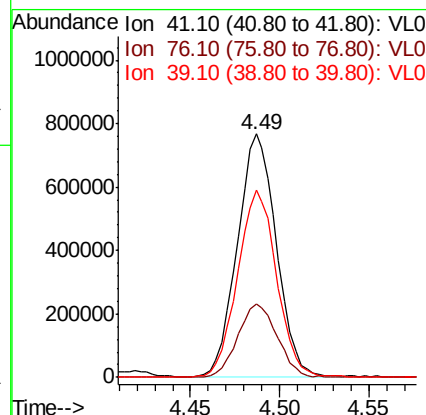
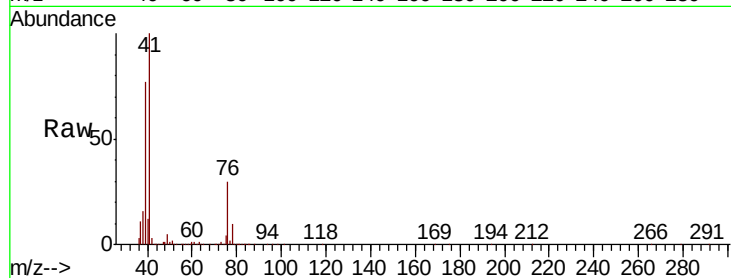
#21
Allvl Chloride
Concen: 9.207 ppbv
RT: 4.49 min Scan# 482
Delta R.T. 0.00 min
Lab File: VL032749.D
Acq: 14 Nov 2018 6:54

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111418

Tot Ion	Ratio	Lower	Upper
41	100		
76	30.8	24.4	36.6
39	77.8	63.5	95.3

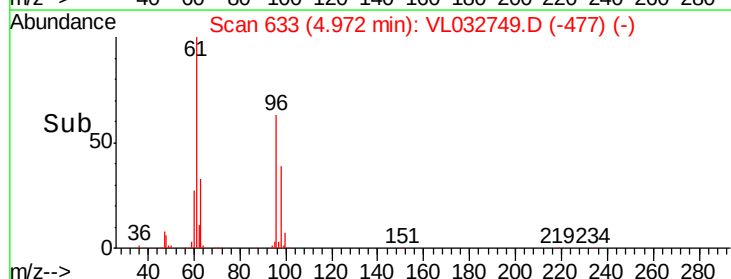
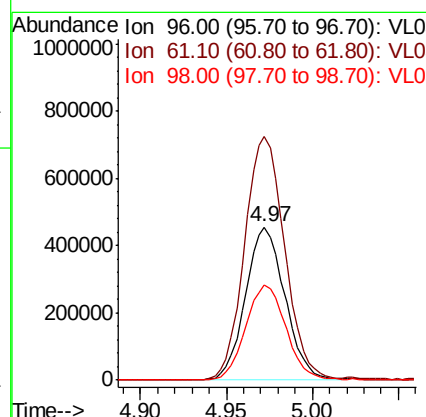
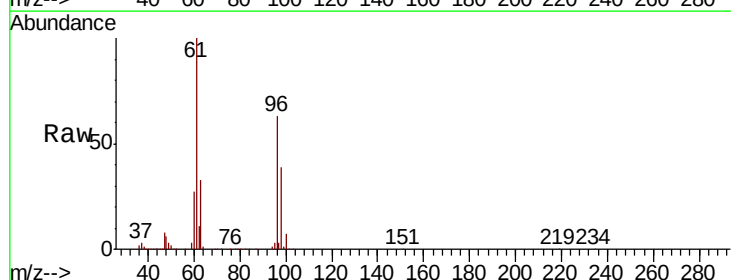
Manual Integrations
APPROVED

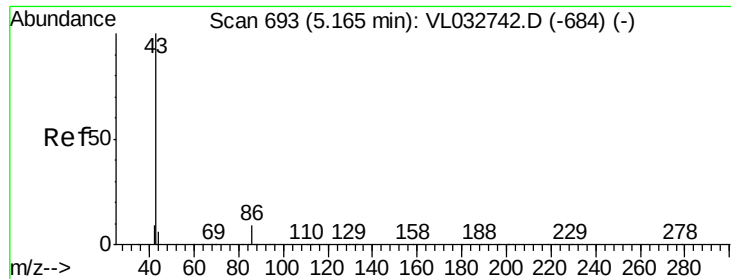
MMDadoda
11/16/2018 1:29:50 PM



#22
trans-1,2-Dichloroethene
Concen: 8.284 ppbv
RT: 4.97 min Scan# 633
Delta R.T. 0.00 min
Lab File: VL032749.D
Acq: 14 Nov 2018 6:54

Tgt Ion	Ratio	Lower	Upper
96	100		
61	159.1	130.2	195.2
98	62.4	50.2	75.2





#23

Vinyl Acetate

Concen: 10.204 ppbv

RT: 5.17 min Scan# 693

Delta R.T. 0.00 min

Lab File: VL032749.D

Acq: 14 Nov 2018 6:54

Tot Ion: 43 Resp: 2791887

Ion	Ratio	Lower	Upper
43	100		
86	7.8	6.2	9.4
42	9.8	7.8	11.6
44	4.8	4.4	6.6

Instrument :

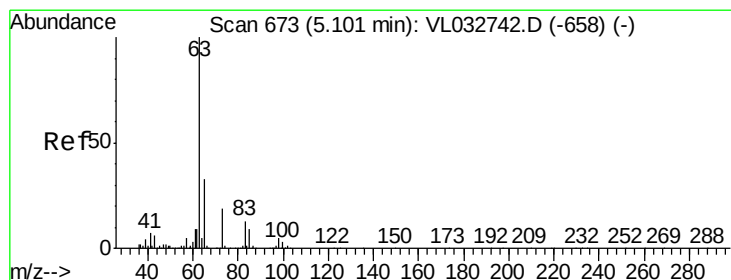
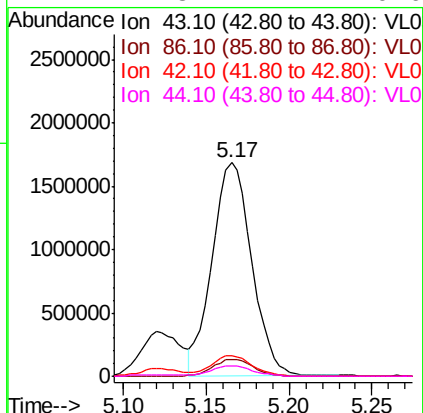
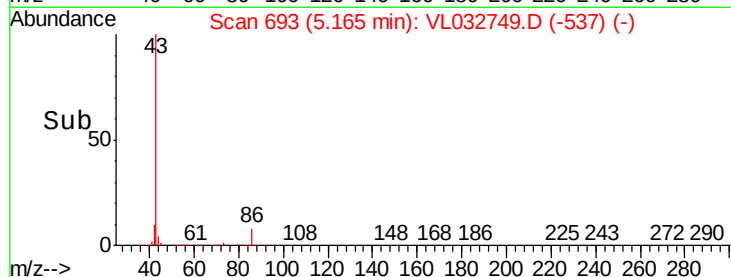
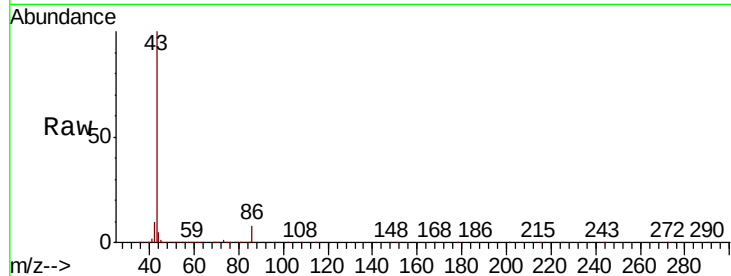
MSVOA_L

ClientSampleId :

ICVVL111418

Manual Integrations
APPROVED

MMDadoda
11/16/2018 1:29:50 PM



#24

1,1-Dichloroethane

Concen: 9.342 ppbv

RT: 5.10 min Scan# 673

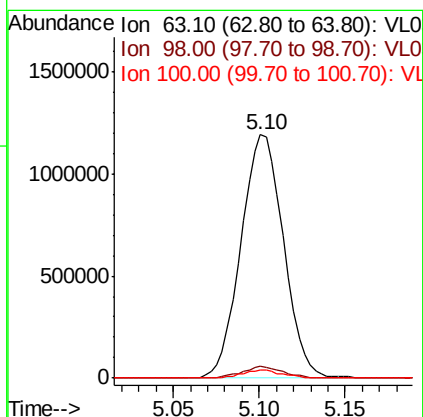
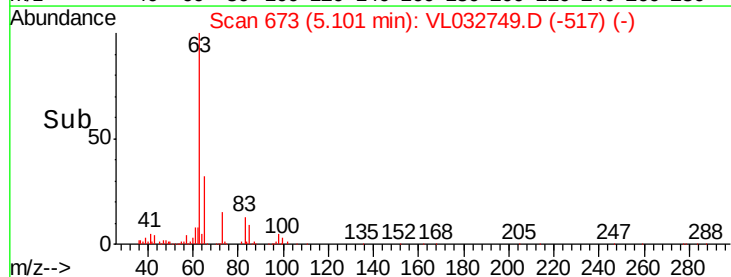
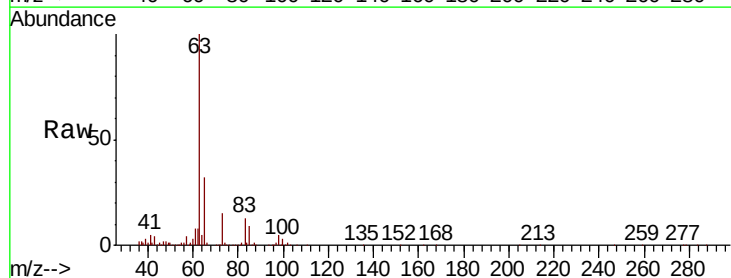
Delta R.T. 0.00 min

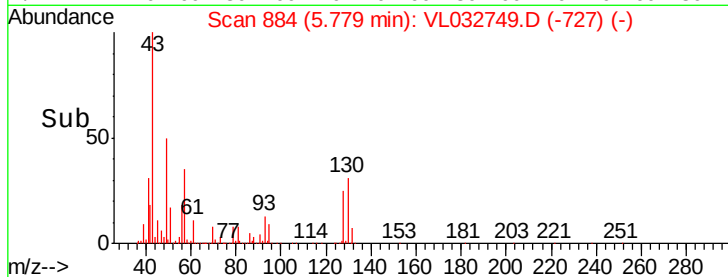
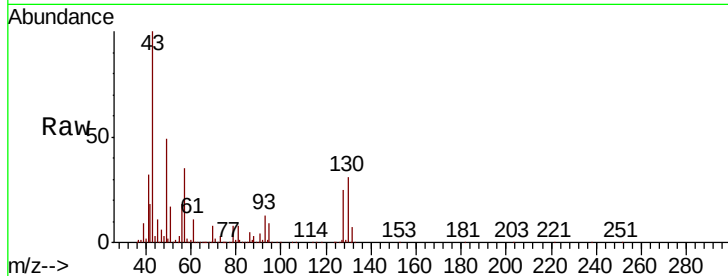
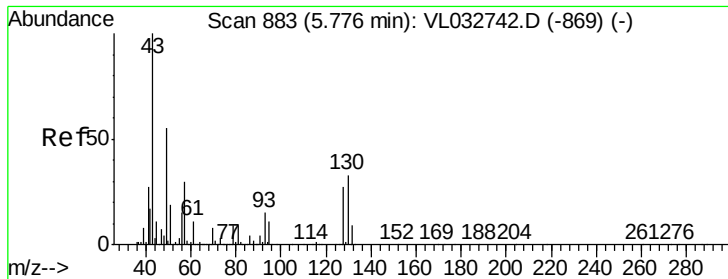
Lab File: VL032749.D

Acq: 14 Nov 2018 6:54

Tgt Ion: 63 Resp: 2032155

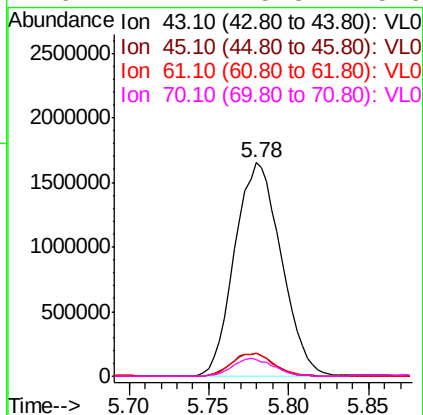
Ion	Ratio	Lower	Upper
63	100		
98	4.7	2.3	6.8
100	3.1	1.4	4.2





#25
Ethyl Acetate
Concen: 9.382 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.00 min
Lab File: VL032749.D
Acq: 14 Nov 2018 6:54

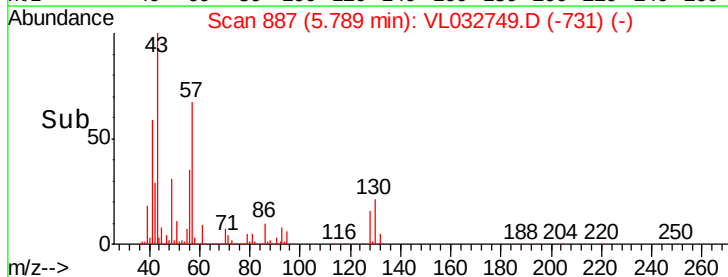
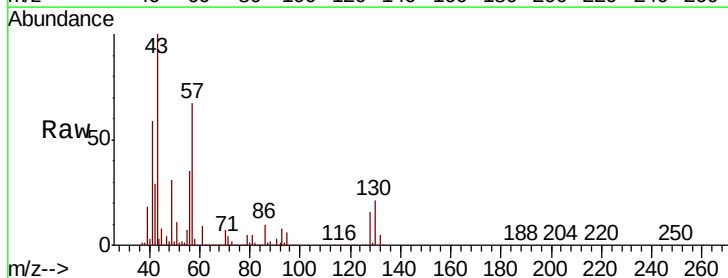
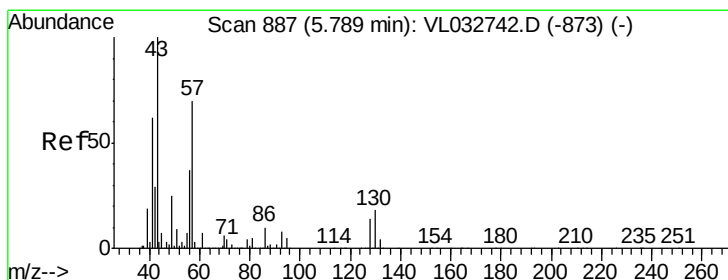
Tot Ion	Ratio	Lower	Upper
43	100		
45	9.8	7.9	11.9
61	10.0	7.8	11.6
70	7.4	5.8	8.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL111418

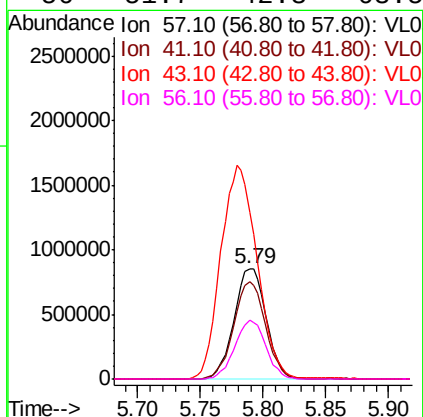
Manual Integrations
APPROVED

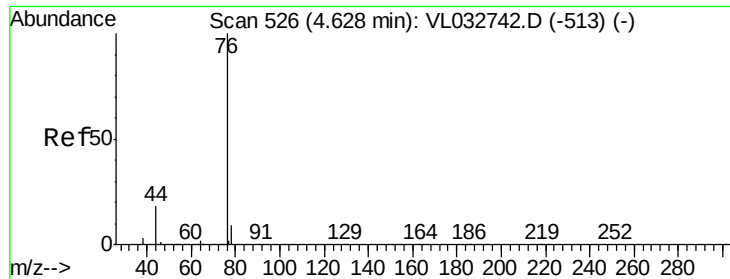
MMDadoda
11/16/2018 1:29:50 PM



#26
Hexane
Concen: 9.729 ppbv
RT: 5.79 min Scan# 887
Delta R.T. 0.00 min
Lab File: VL032749.D
Acq: 14 Nov 2018 6:54

Tgt Ion	Ratio	Lower	Upper
57	100		
41	87.6	70.3	105.5
43	218.2	174.0	261.0
56	51.7	42.3	63.5





#27

Carbon Disulfide

Concen: 9.213 ppbv

RT: 4.63 min Scan# 526

Delta R.T. 0.00 min

Lab File: VL032749.D

Acq: 14 Nov 2018 6:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL111418

Tot Ion: 76 Resp: 1819256

Ion Ratio Lower Upper

76 100

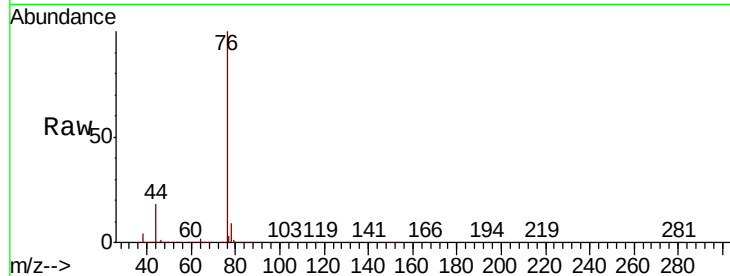
44 17.8 14.4 21.6

78 9.2 7.7 11.5

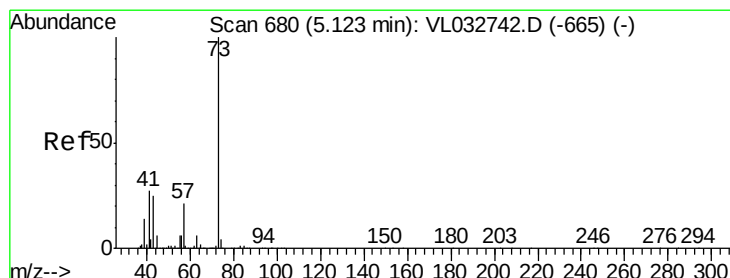
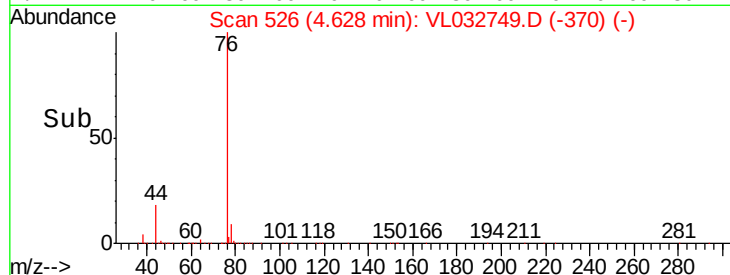
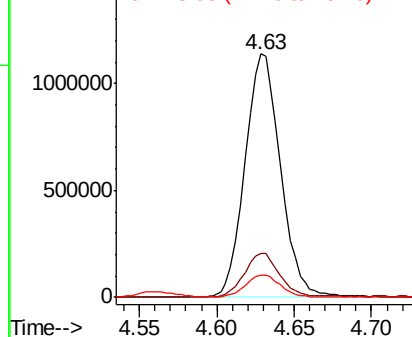
Manual Integrations
APPROVED

MMDadoda

11/16/2018 1:29:50 PM



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 10.210 ppbv

RT: 5.12 min Scan# 680

Delta R.T. 0.00 min

Lab File: VL032749.D

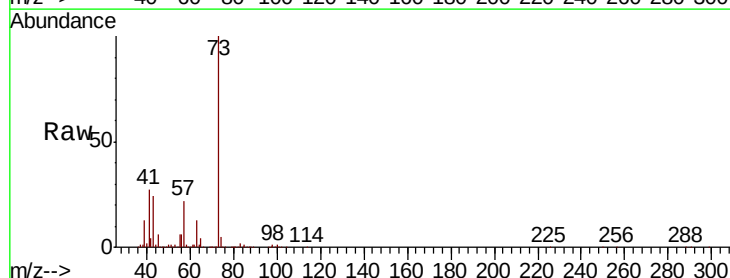
Acq: 14 Nov 2018 6:54

Tgt Ion: 73 Resp: 2535446

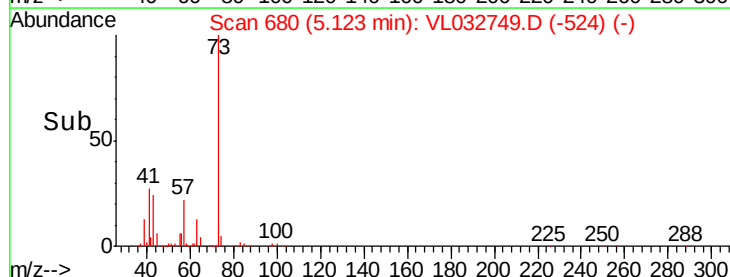
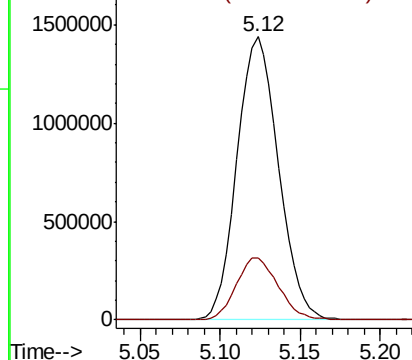
Ion Ratio Lower Upper

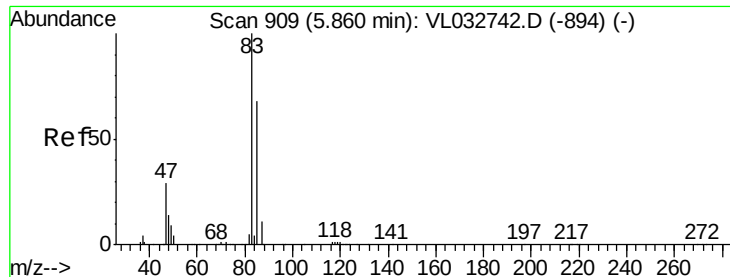
73 100

57 22.4 17.5 26.3



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





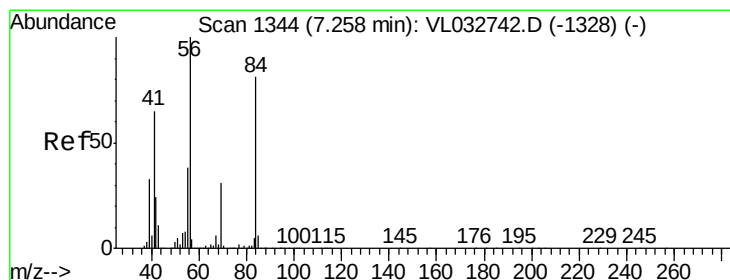
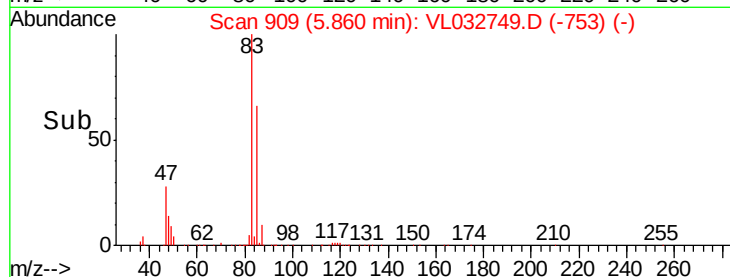
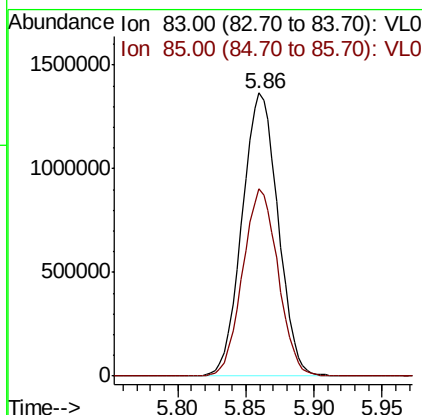
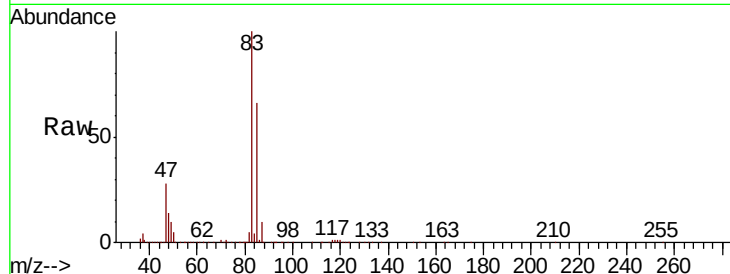
#29
Chloroform
Concen: 8.993 ppbv
RT: 5.86 min Scan# 909
Delta R.T. 0.00 min
Lab File: VL032749.D
Acq: 14 Nov 2018 6:54

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111418

Tot Ion: 83 Resp: 2495975
Ion Ratio Lower Upper
83 100
85 66.2 54.2 81.4

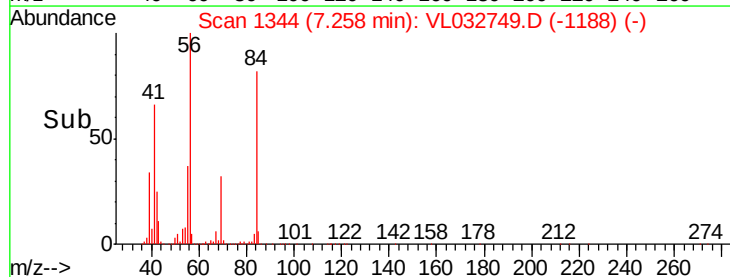
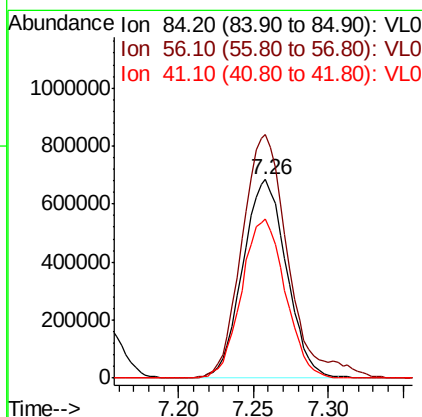
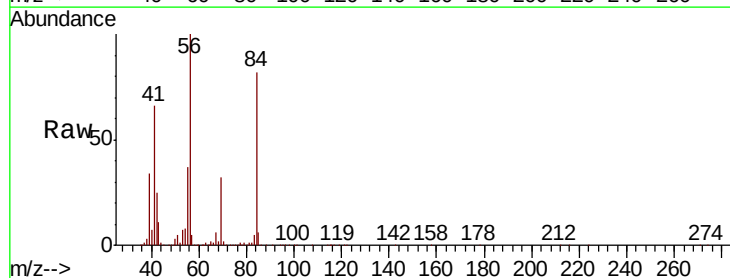
Manual Integrations
APPROVED

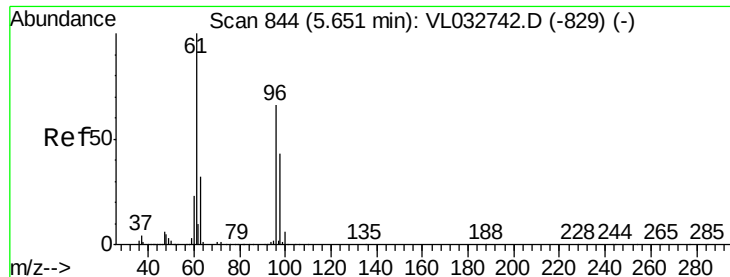
MMDadoda
11/16/2018 1:29:50 PM



#30
Cyclohexane
Concen: 10.217 ppbv
RT: 7.26 min Scan# 1344
Delta R.T. 0.00 min
Lab File: VL032749.D
Acq: 14 Nov 2018 6:54

Tgt Ion: 84 Resp: 1391506
Ion Ratio Lower Upper
84 100
56 130.0 105.0 157.4
41 80.2 65.3 97.9





#31

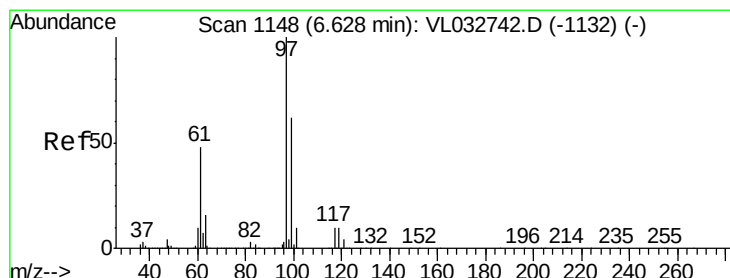
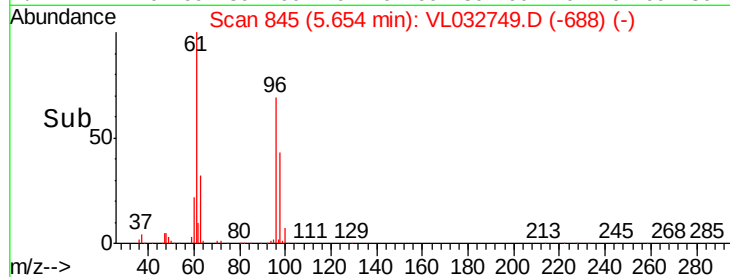
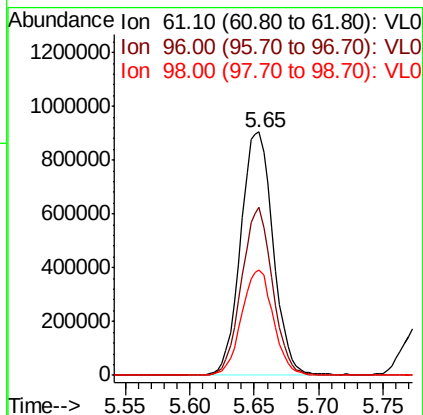
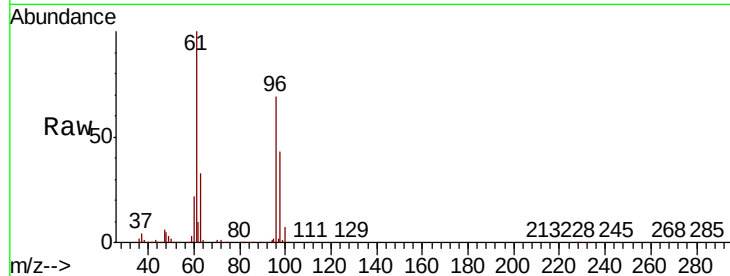
cis-1,2-Dichloroethene
 Concen: 10.128 ppbv
 RT: 5.65 min Scan# 845
 Delta R.T. 0.00 min
 Lab File: VL032749.D
 Acq: 14 Nov 2018 6:54

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111418

Tot Ion	Ratio	Lower	Upper
61	100		
96	69.0	53.2	79.8
98	43.1	34.4	51.6

Manual Integrations
 APPROVED

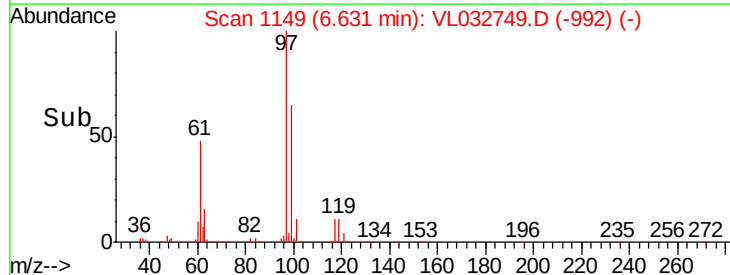
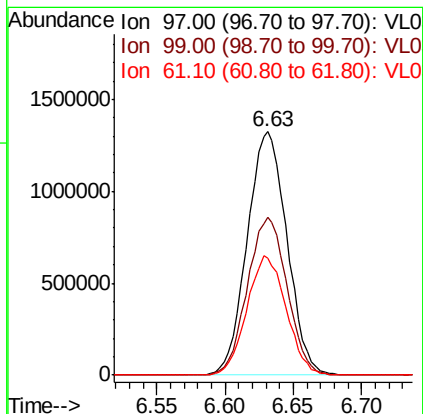
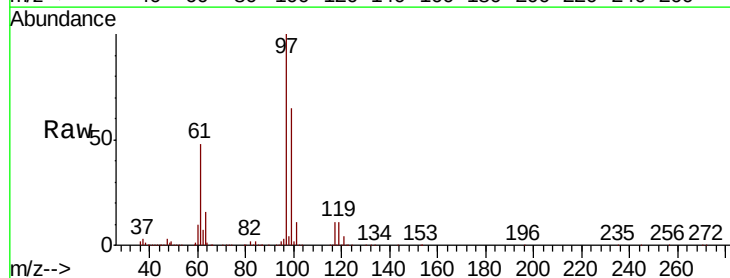
MMDadoda
 11/16/2018 1:29:50 PM

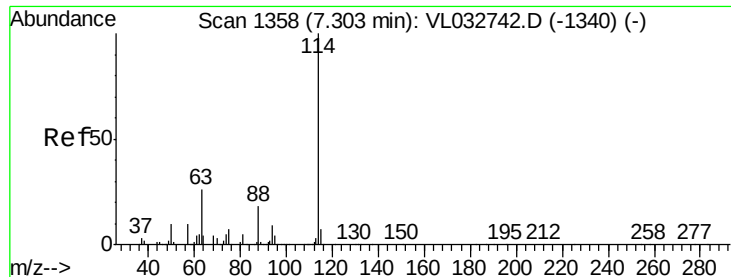


#32

1,1,1-Trichloroethane
 Concen: 8.801 ppbv
 RT: 6.63 min Scan# 1149
 Delta R.T. 0.00 min
 Lab File: VL032749.D
 Acq: 14 Nov 2018 6:54

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.9	51.8	77.6
61	48.5	39.7	59.5





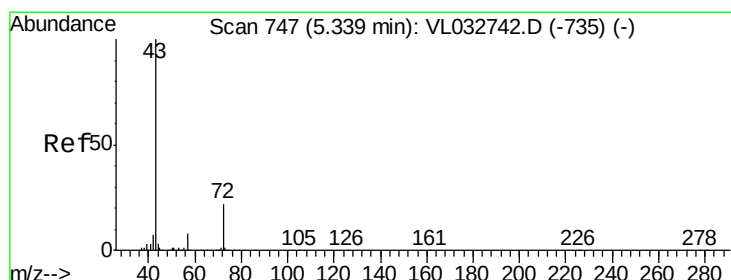
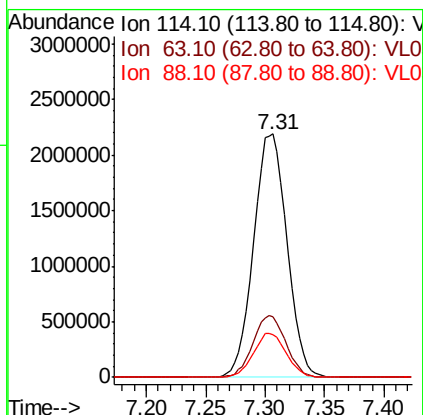
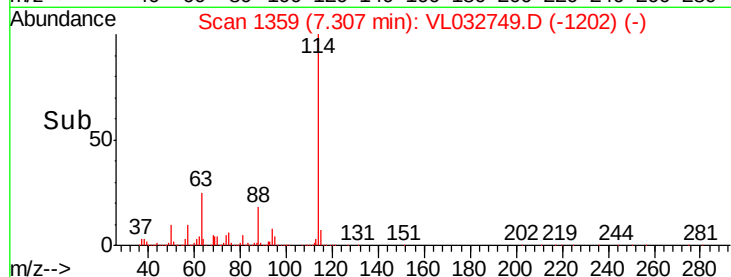
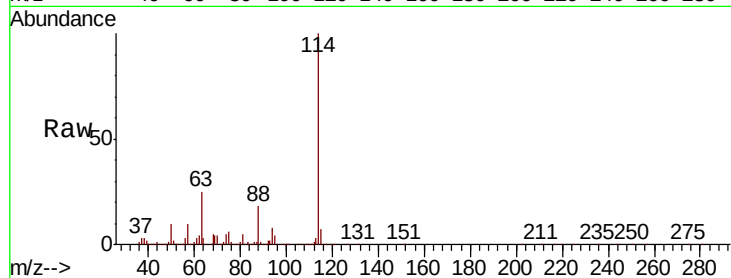
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.31 min Scan# 1359
 Delta R.T. 0.00 min
 Lab File: VL032749.D
 Acq: 14 Nov 2018 6:54

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111418

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.3	20.9	31.3
88	17.8	14.4	21.6

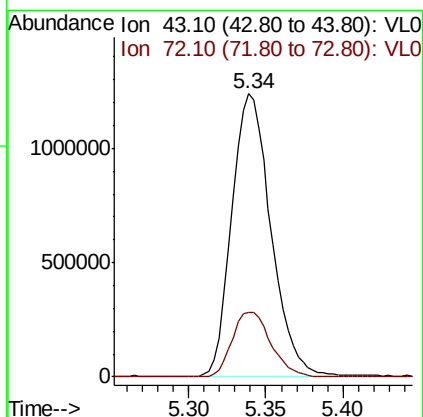
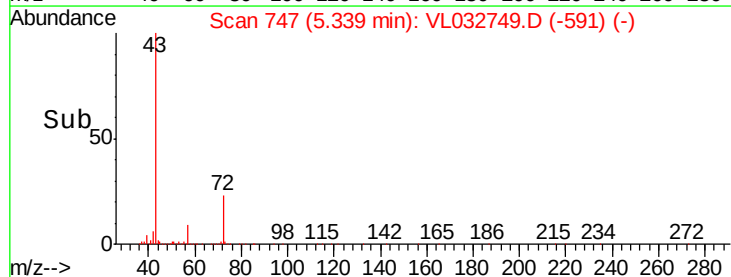
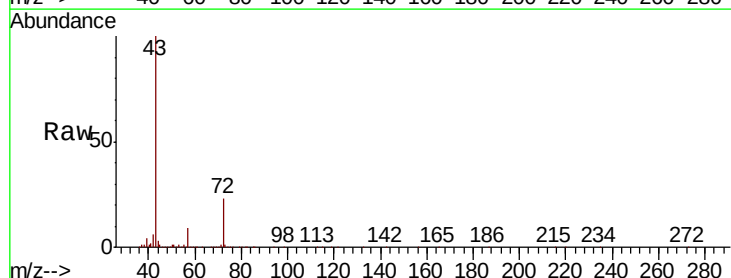
Manual Integrations
 APPROVED

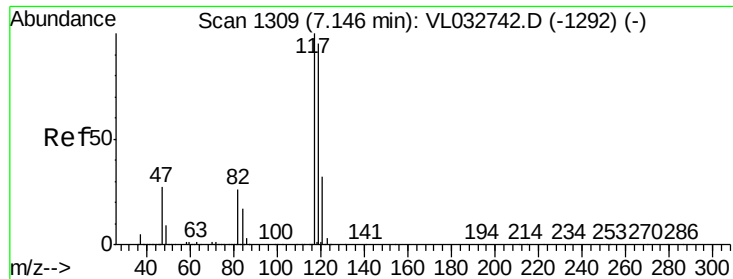
MMDadoda
 11/16/2018 1:29:50 PM



#34
 2-Butanone
 Concen: 9.796 ppbv
 RT: 5.34 min Scan# 747
 Delta R.T. 0.00 min
 Lab File: VL032749.D
 Acq: 14 Nov 2018 6:54

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.0	18.4	27.6





#35

Carbon Tetrachloride

Concen: 8.343 ppbv

RT: 7.14 min Scan# 1308

Delta R.T. -0.00 min

Lab File: VL032749.D

Acq: 14 Nov 2018 6:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL111418

Tot Ion:117 Resp: 2856173

Ion Ratio Lower Upper

117 100

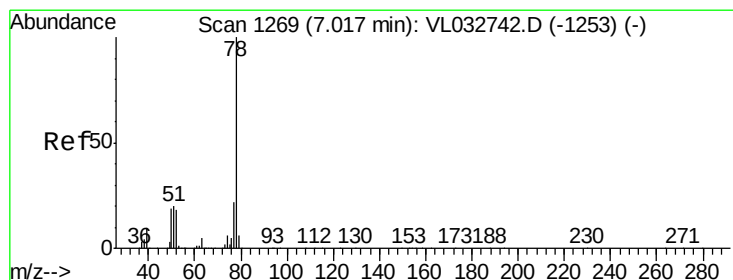
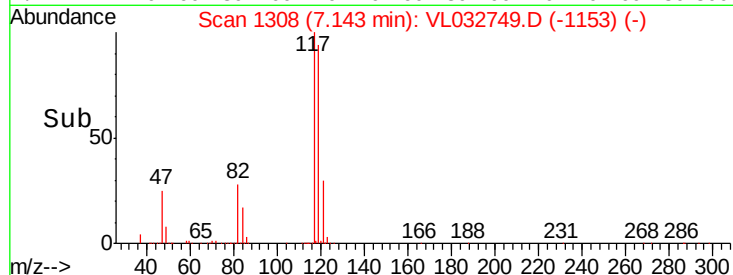
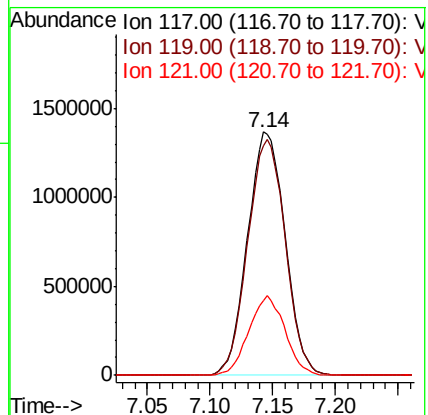
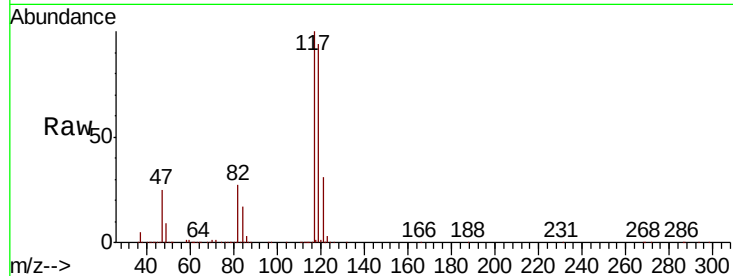
119 94.3 76.1 114.1

121 30.6 25.4 38.0

Manual Integrations
APPROVED

MMDadoda

11/16/2018 1:29:50 PM



#36

Benzene

Concen: 9.835 ppbv

RT: 7.02 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VL032749.D

Acq: 14 Nov 2018 6:54

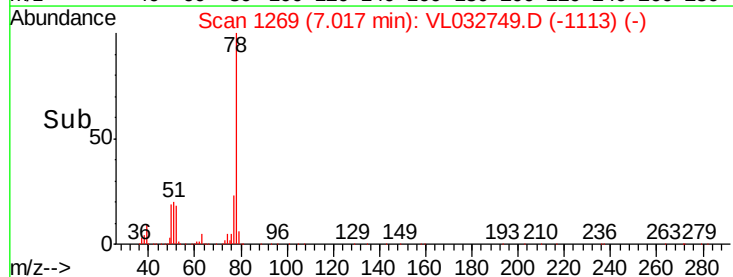
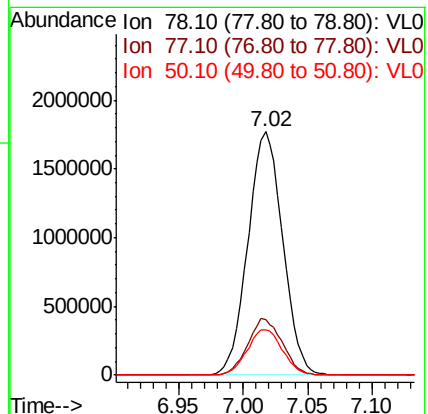
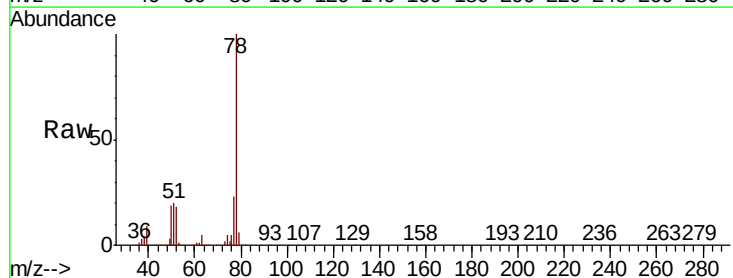
Tgt Ion: 78 Resp: 3335133

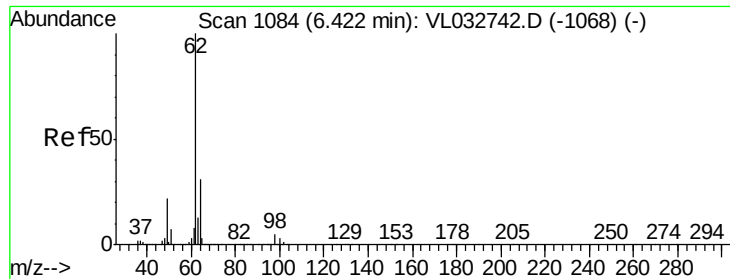
Ion Ratio Lower Upper

78 100

77 22.6 17.8 26.8

50 18.6 15.4 23.0





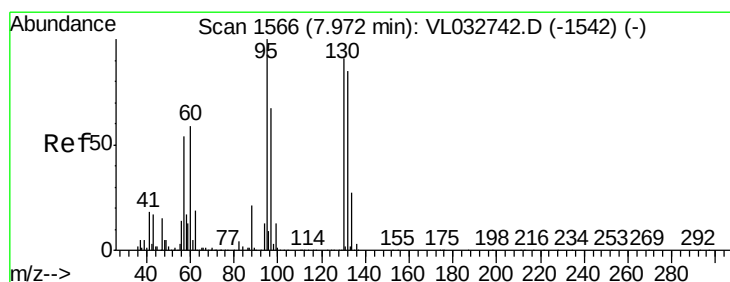
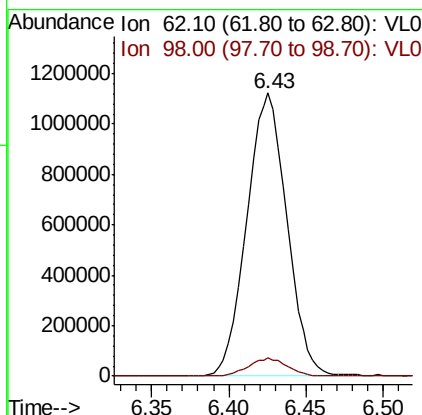
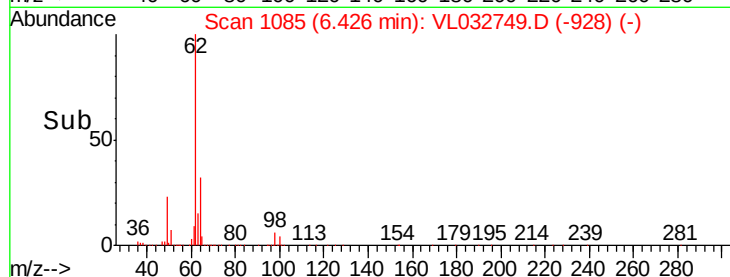
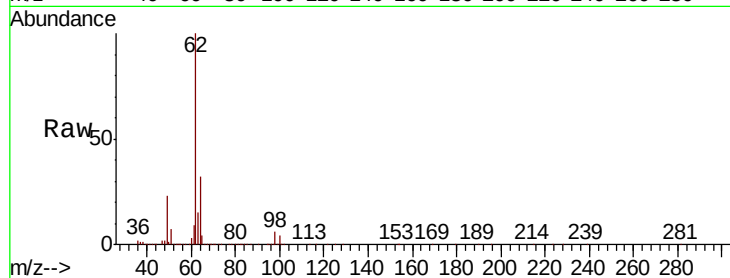
#37
 1,2-Dichloroethane
 Concen: 8.882 ppbv
 RT: 6.43 min Scan# 1085
 Delta R.T. 0.00 min
 Lab File: VL032749.D
 Acq: 14 Nov 2018 6:54

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111418

Tot Ion: 62 Resp: 2027611
 Ion Ratio Lower Upper
 62 100
 98 6.2 4.5 6.7

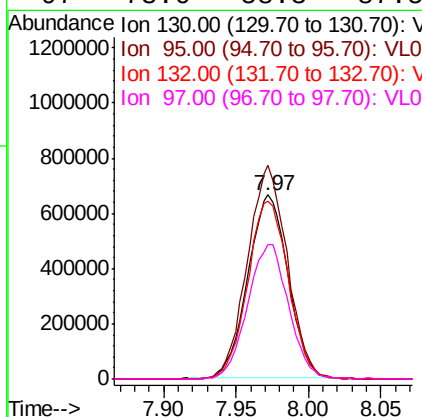
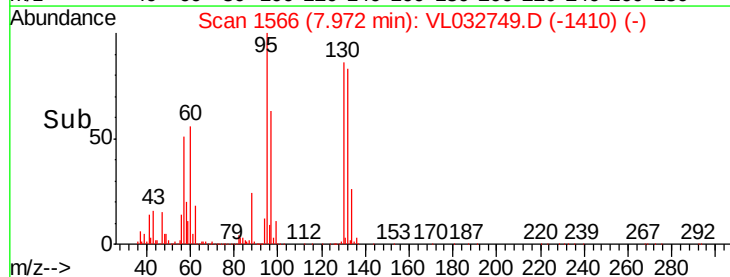
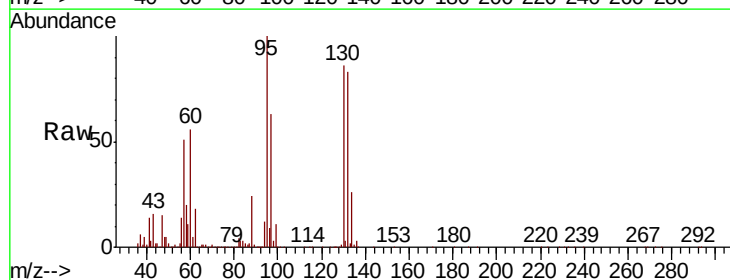
Manual Integrations
 APPROVED

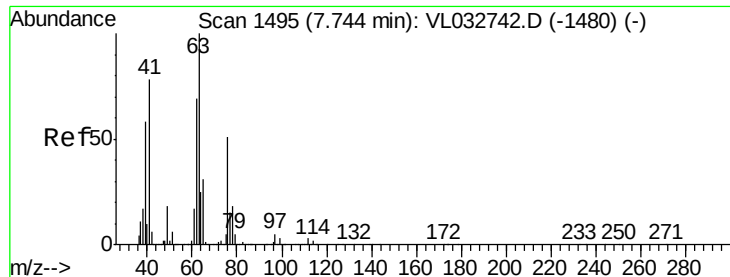
MMDadoda
 11/16/2018 1:29:50 PM



#38
 Trichloroethene
 Concen: 9.378 ppbv
 RT: 7.97 min Scan# 1566
 Delta R.T. 0.00 min
 Lab File: VL032749.D
 Acq: 14 Nov 2018 6:54

Tgt Ion:130 Resp: 1287114
 Ion Ratio Lower Upper
 130 100
 95 116.5 87.7 131.5
 132 96.7 74.6 111.8
 97 73.6 58.3 87.5





#39

1,2-Dichloropropane

Concen: 9.677 ppbv

RT: 7.75 min Scan# 1496

Delta R.T. 0.00 min

Lab File: VL032749.D

Acq: 14 Nov 2018 6:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL111418

Tot Ion: 63 Resp: 1250381

Ion Ratio Lower Upper

63 100

41 72.7 62.0 93.0

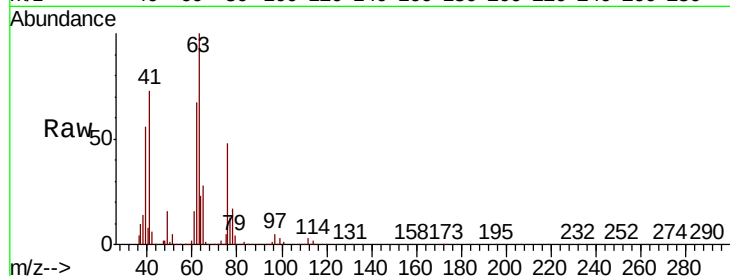
62 67.2 55.4 83.2

Manual Integrations

APPROVED

MMDadoda

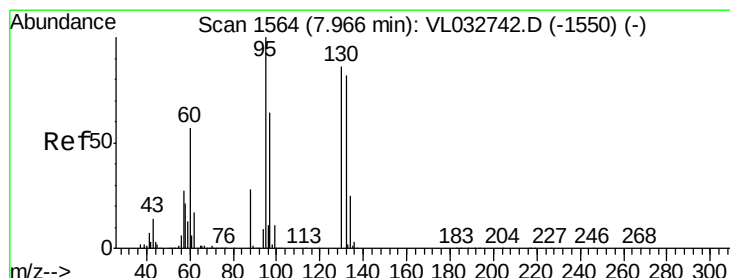
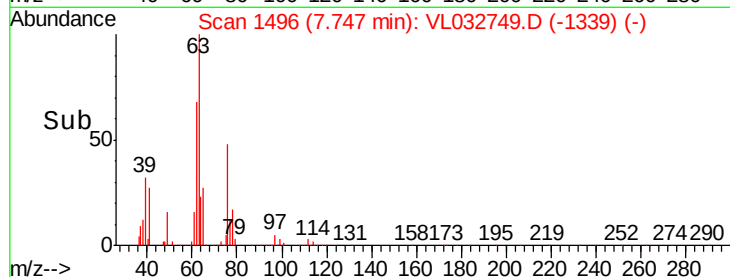
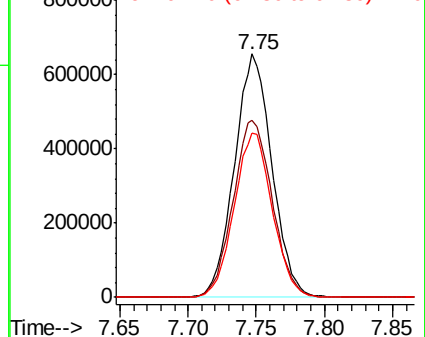
11/16/2018 1:29:50 PM



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 10.956 ppbv m

RT: 7.97 min Scan# 1564

Delta R.T. 0.00 min

Lab File: VL032749.D

Acq: 14 Nov 2018 6:54

Tgt Ion: 88 Resp: 505600

Ion Ratio Lower Upper

88 100

58 118.9 105.3 157.9

43 0.0 226.1 339.1#

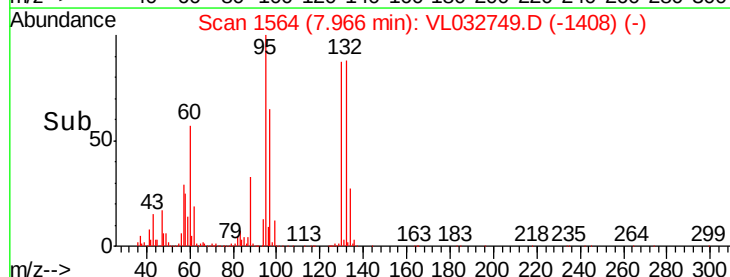
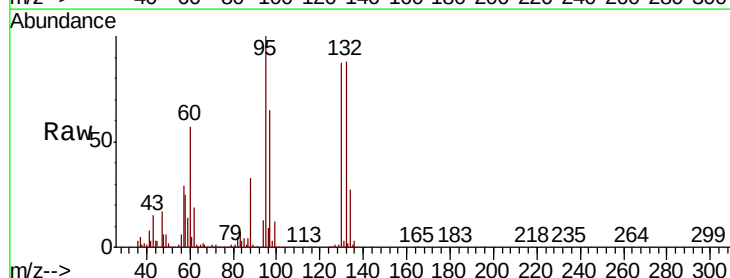
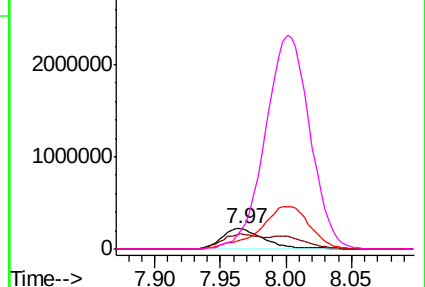
57 0.0 1015.2 1522.8#

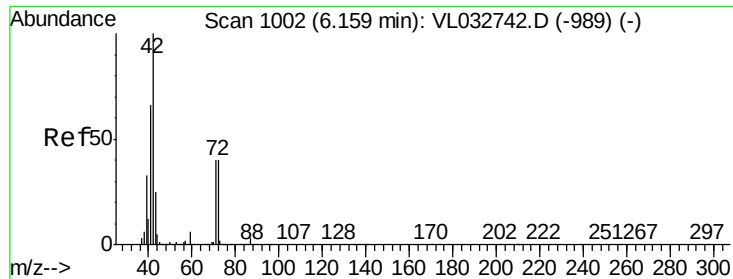
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





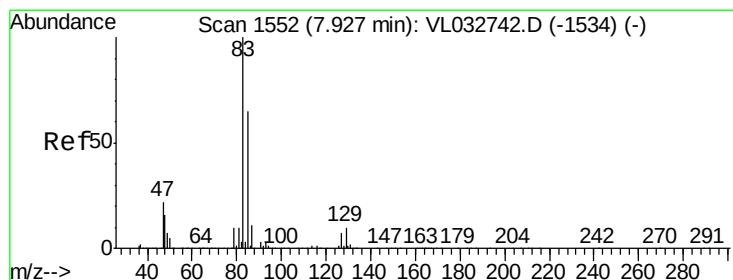
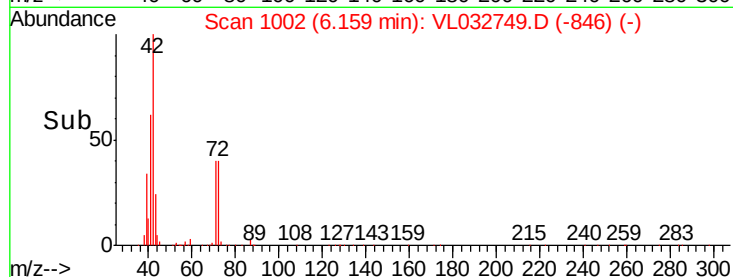
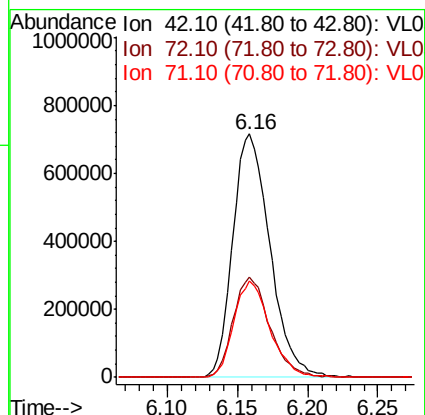
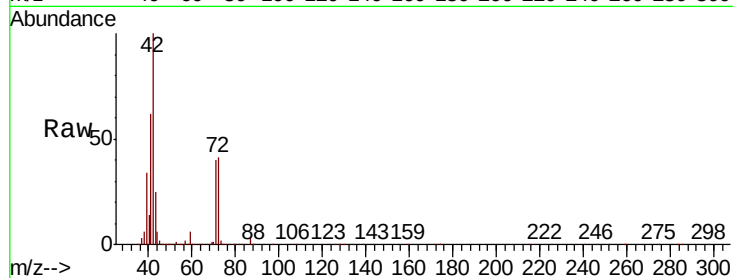
#41
Tetrahydrofuran
Concen: 10.456 ppbv
RT: 6.16 min Scan# 1002
Delta R.T. 0.00 min
Lab File: VL032749.D
Acq: 14 Nov 2018 6:54

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111418

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.8	32.4	48.6
71	38.8	31.6	47.4

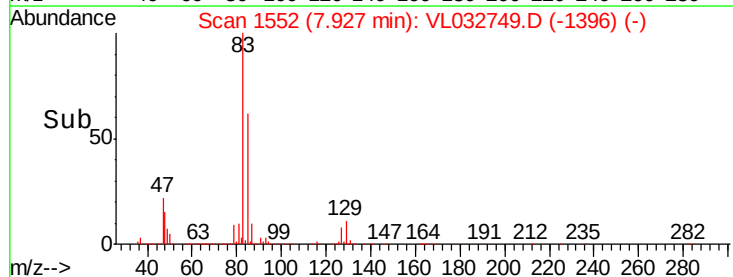
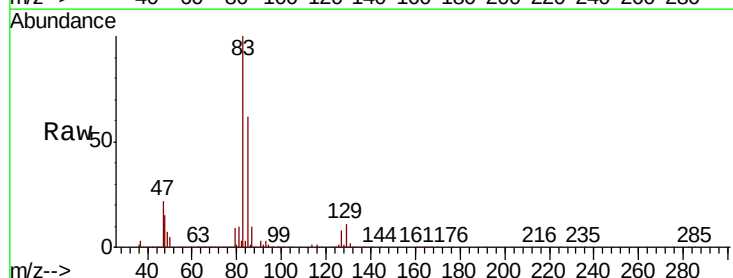
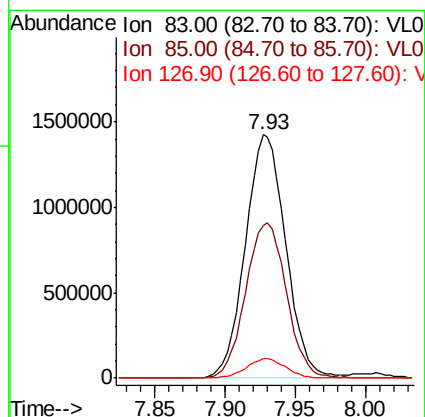
Manual Integrations
APPROVED

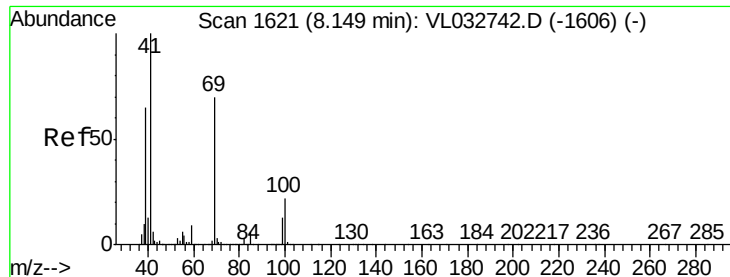
MMDadoda
11/16/2018 1:29:50 PM



#42
Bromodichloromethane
Concen: 9.220 ppbv
RT: 7.93 min Scan# 1552
Delta R.T. 0.00 min
Lab File: VL032749.D
Acq: 14 Nov 2018 6:54

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.5	51.8	77.8
127	8.0	5.9	8.9





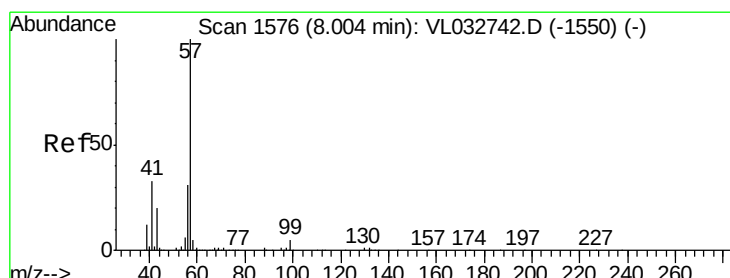
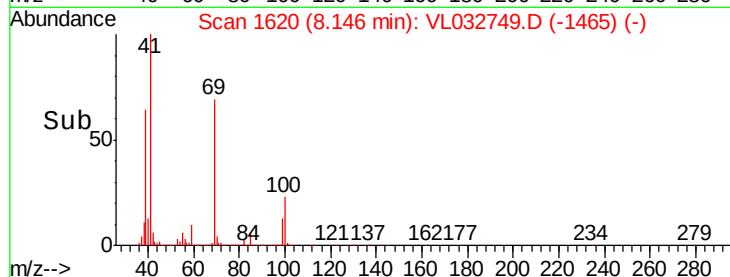
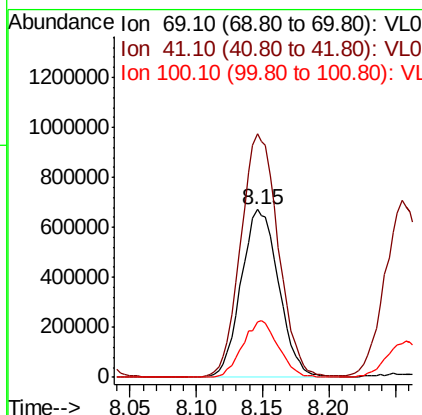
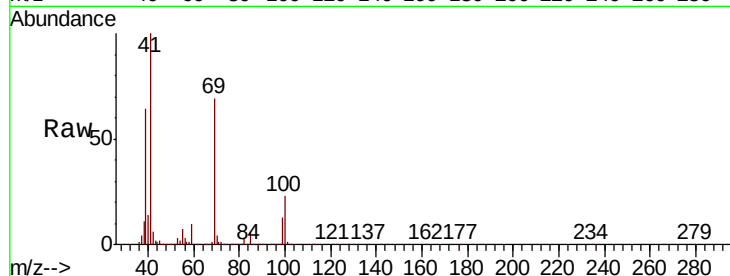
#43
Methyl Methacrylate
Concen: 10.449 ppbv
RT: 8.15 min Scan# 1620
Delta R.T. -0.00 min
Lab File: VL032749.D
Acq: 14 Nov 2018 6:54

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111418

Tot Ion: 69 Resp: 1322861
Ion Ratio Lower Upper
69 100
41 144.8 115.0 172.4
100 32.2 25.4 38.0

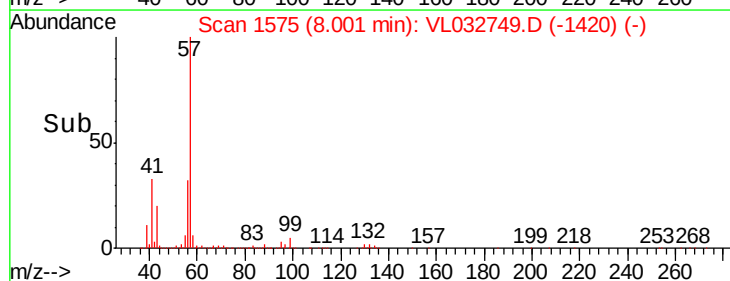
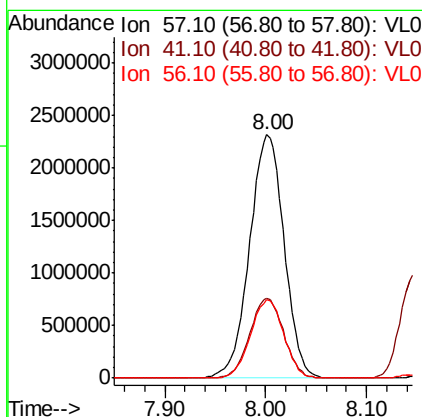
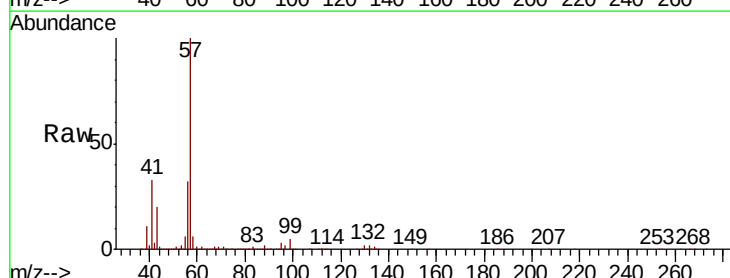
Manual Integrations
APPROVED

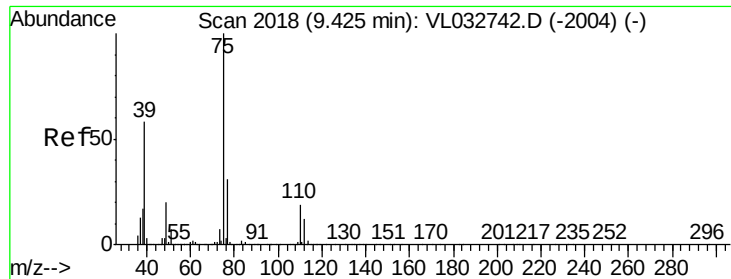
MMDadoda
11/16/2018 1:29:50 PM



#44
2,2,4-Trimethylpentane
Concen: 9.674 ppbv
RT: 8.00 min Scan# 1575
Delta R.T. -0.00 min
Lab File: VL032749.D
Acq: 14 Nov 2018 6:54

Tgt Ion: 57 Resp: 5482199
Ion Ratio Lower Upper
57 100
41 32.3 26.6 39.8
56 31.1 24.8 37.2





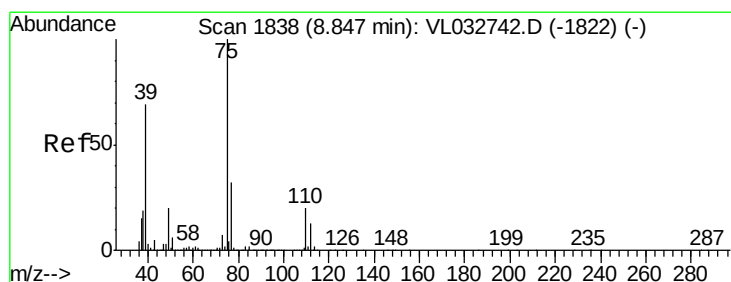
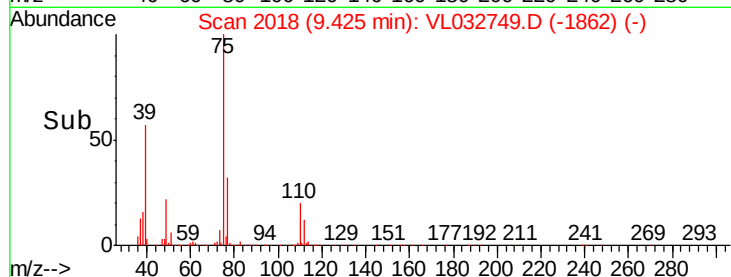
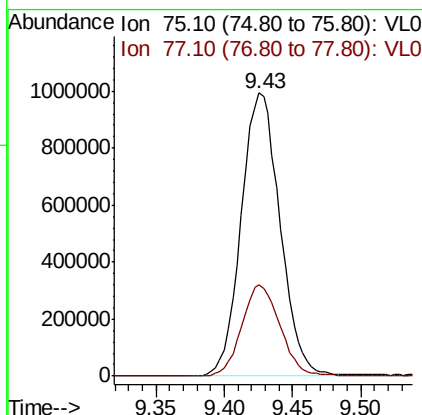
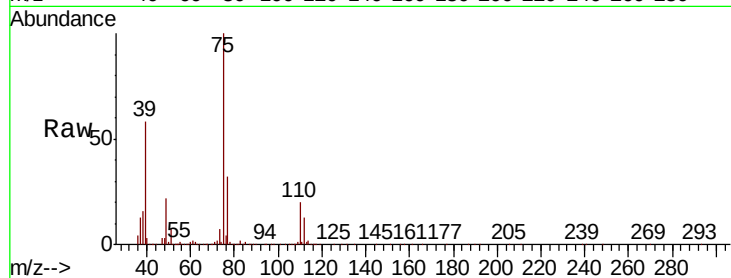
#45
t-1,3-Dichloropropene
Concen: 11.568 ppbv
RT: 9.43 min Scan# 2018
Delta R.T. 0.00 min
Lab File: VL032749.D
Acq: 14 Nov 2018 6:54

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111418

Tot Ion: 75 Resp: 1965256
Ion Ratio Lower Upper
75 100
77 32.1 24.6 36.8

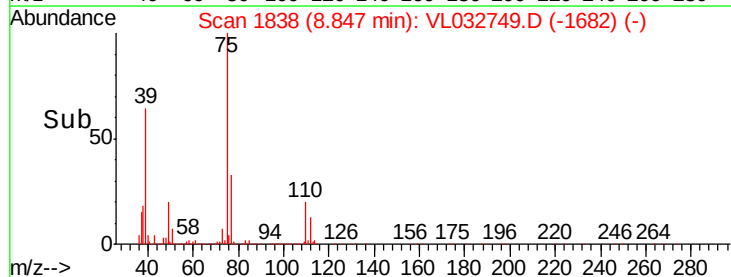
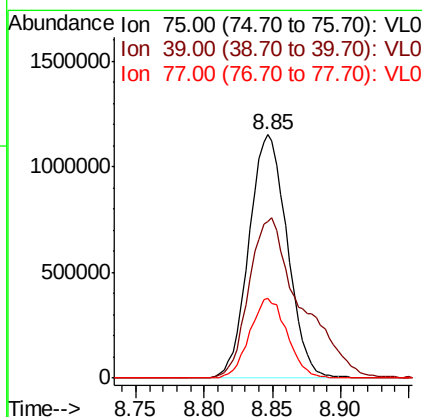
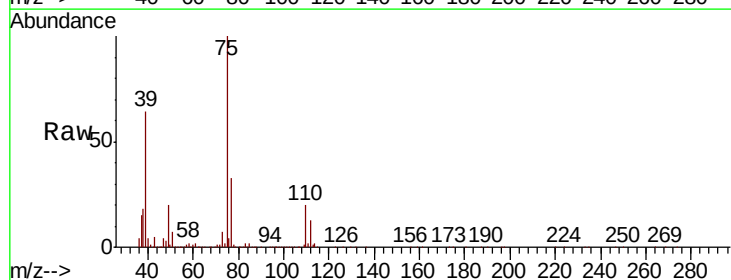
Manual Integrations
APPROVED

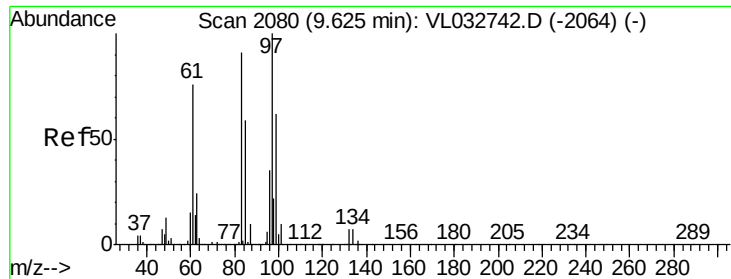
MMDadoda
11/16/2018 1:29:50 PM



#46
cis-1,3-Dichloropropene
Concen: 10.926 ppbv
RT: 8.85 min Scan# 1838
Delta R.T. 0.00 min
Lab File: VL032749.D
Acq: 14 Nov 2018 6:54

Tgt Ion: 75 Resp: 2242546
Ion Ratio Lower Upper
75 100
39 64.3 55.2 82.8
77 32.8 25.8 38.6





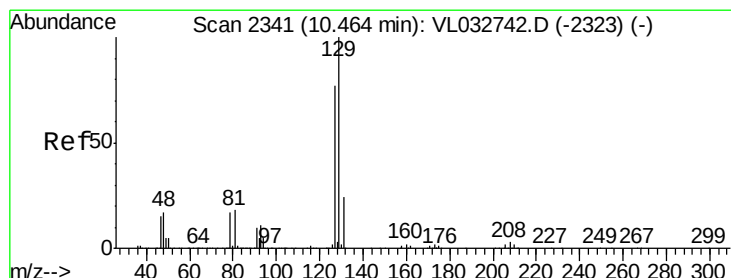
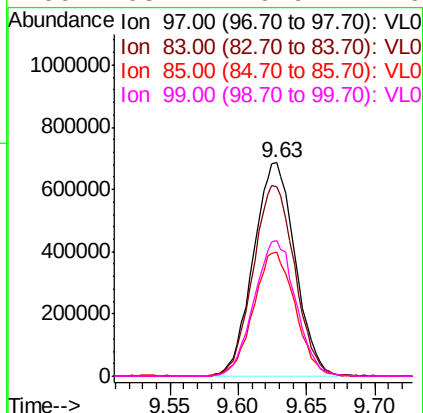
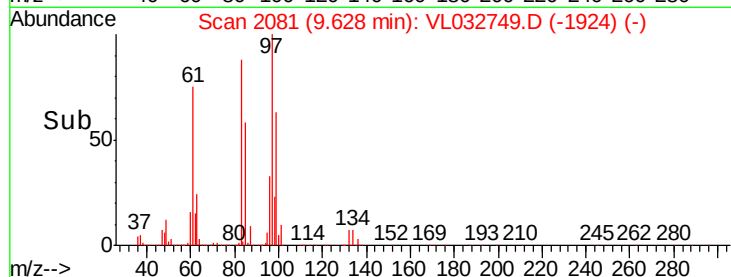
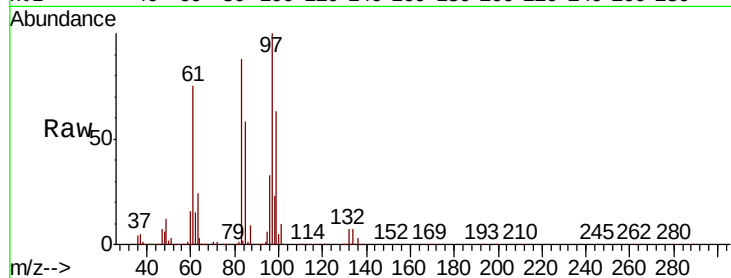
#47
 1,1,2-Trichloroethane
 Concen: 9.539 ppbv
 RT: 9.63 min Scan# 2081
 Delta R.T. 0.00 min
 Lab File: VL032749.D
 Acq: 14 Nov 2018 6:54

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111418

Tot Ion	Ratio	Lower	Upper
97	100		
83	88.4	73.0	109.4
85	58.2	47.0	70.4
99	63.4	49.9	74.9

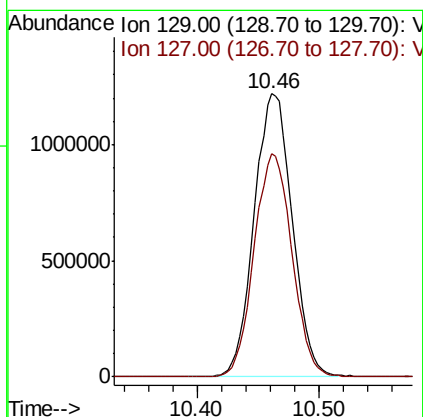
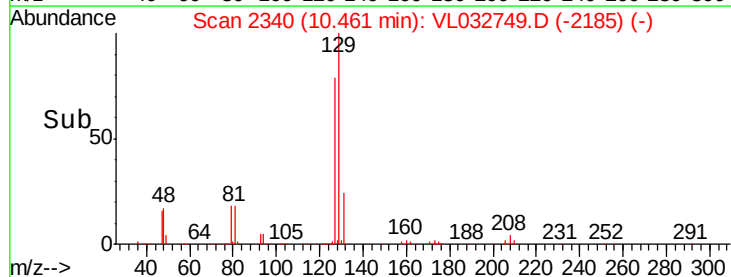
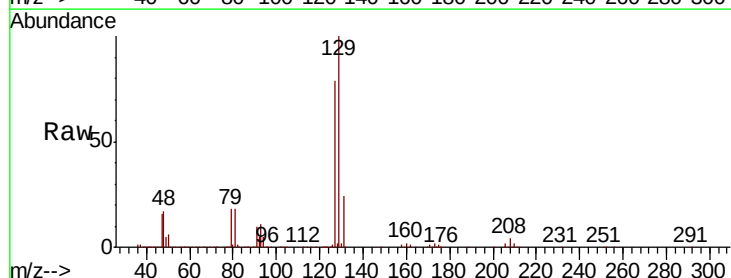
Manual Integrations
 APPROVED

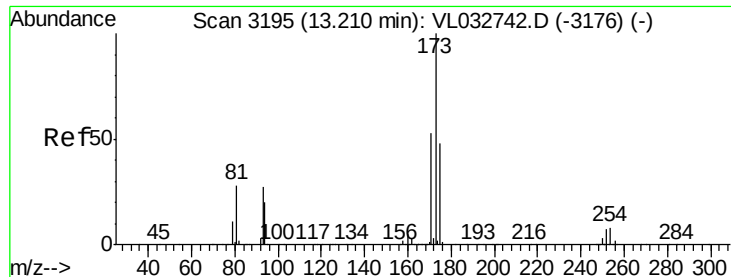
MMDadoda
 11/16/2018 1:29:50 PM



#48
 Dibromochloromethane
 Concen: 10.152 ppbv
 RT: 10.46 min Scan# 2340
 Delta R.T. -0.00 min
 Lab File: VL032749.D
 Acq: 14 Nov 2018 6:54

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.5	39.0	117.0





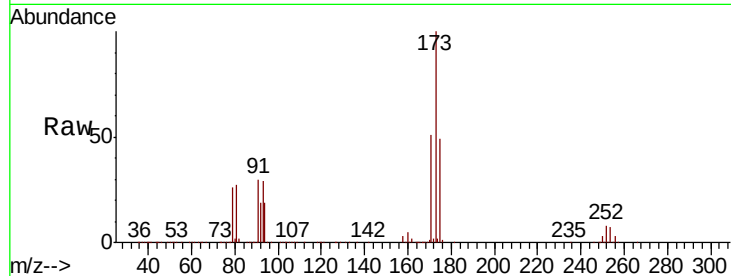
#49
Bromoform
Concen: 9.403 ppbv
RT: 13.22 min Scan# 3197
Delta R.T. 0.01 min
Lab File: VL032749.D
Acq: 14 Nov 2018 6:54

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111418

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.9	39.4	59.0
171	52.8	42.0	63.0

Manual Integrations
APPROVED

MMDadoda
11/16/2018 1:29:50 PM

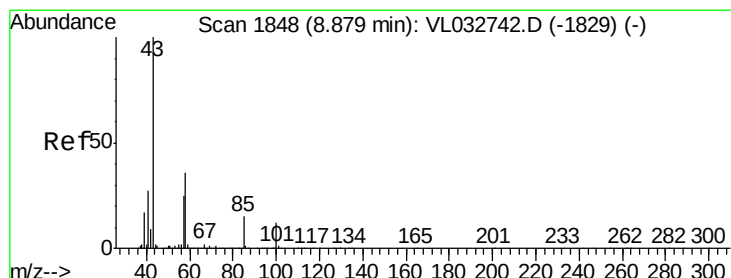
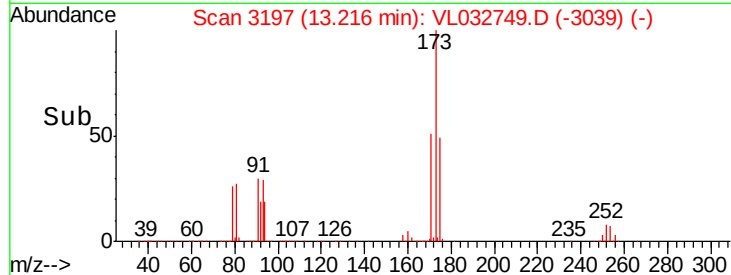
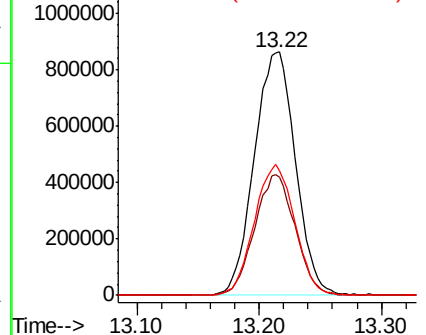


Abundance

Ion 172.90 (172.60 to 173.60): V

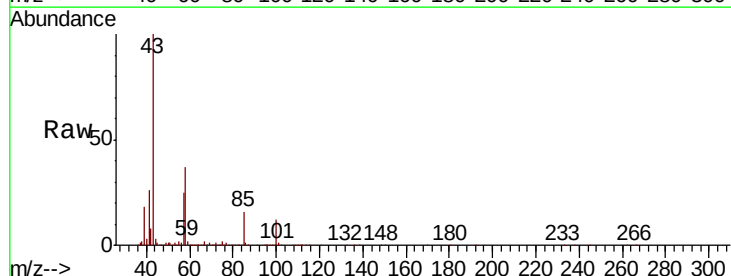
Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50
4-Methyl-2-Pentanone
Concen: 9.981 ppbv
RT: 8.88 min Scan# 1849
Delta R.T. 0.00 min
Lab File: VL032749.D
Acq: 14 Nov 2018 6:54

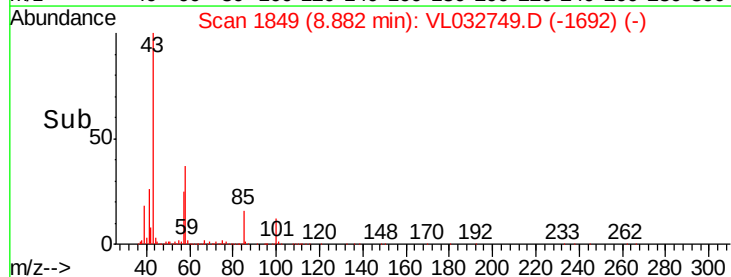
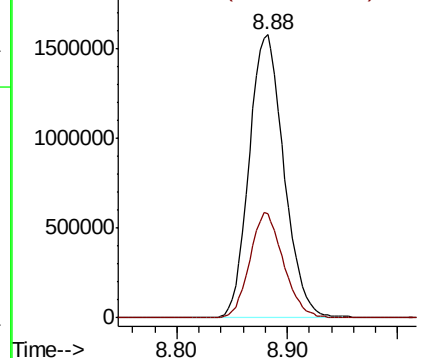
Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.9	28.8	43.2

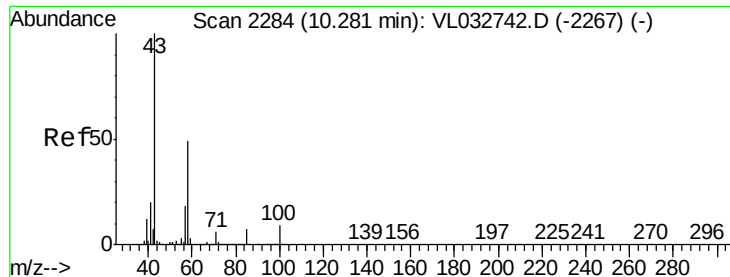


Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





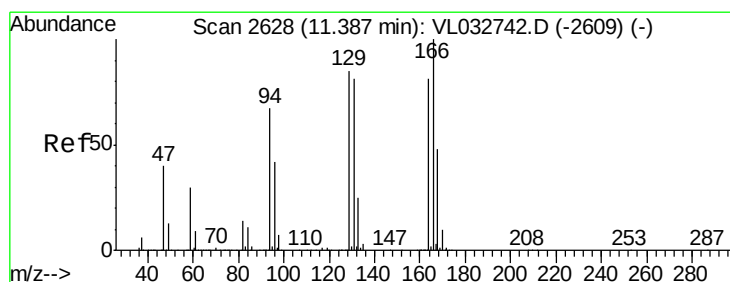
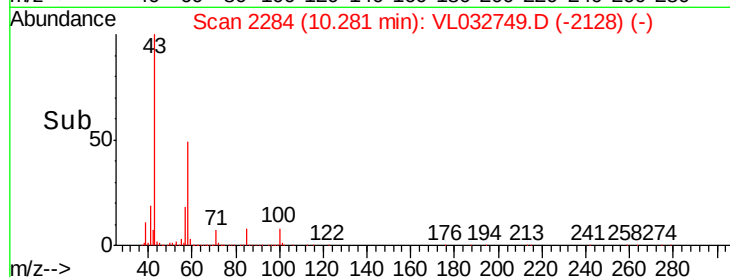
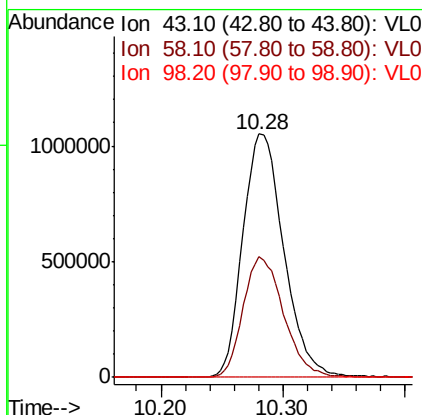
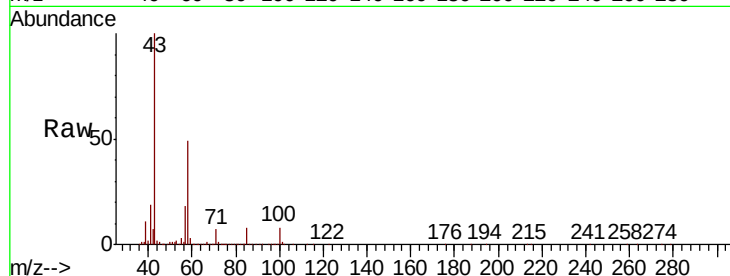
#51
2-Hexanone
Concen: 10.959 ppbv
RT: 10.28 min Scan# 2284
Delta R.T. 0.00 min
Lab File: VL032749.D
Acq: 14 Nov 2018 6:54

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111418

Tot Ion	Ratio	Lower	Upper
43	100		
58	49.2	38.9	58.3
98	0.3	0.2	0.4

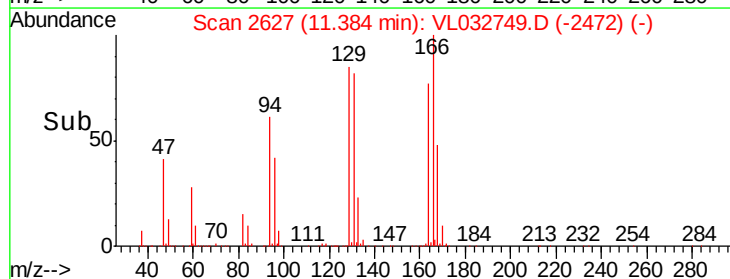
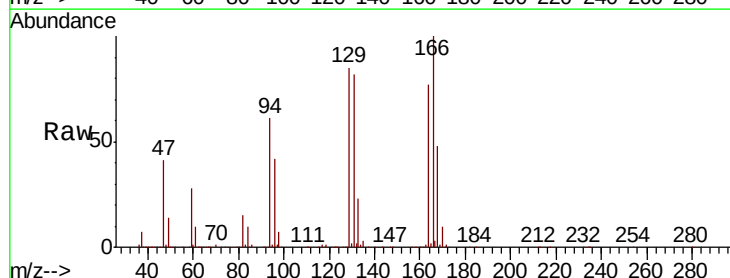
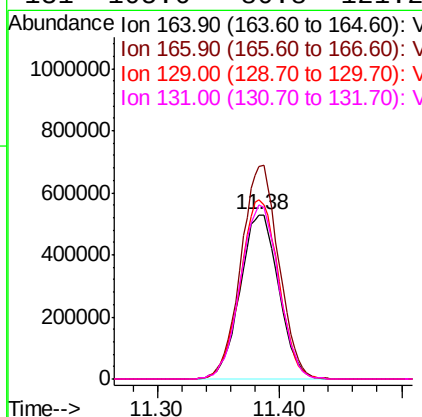
Manual Integrations
APPROVED

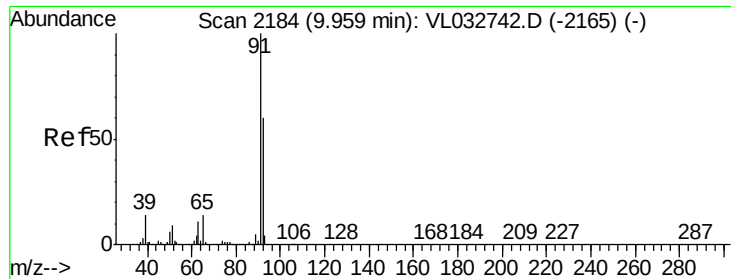
MMDadoda
11/16/2018 1:29:50 PM



#52
Tetrachloroethene
Concen: 9.773 ppbv
RT: 11.38 min Scan# 2627
Delta R.T. -0.00 min
Lab File: VL032749.D
Acq: 14 Nov 2018 6:54

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.0	99.3	148.9
129	109.1	83.9	125.9
131	105.6	80.8	121.2





#53

Toluene

Concen: 10.730 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. -0.00 min

Lab File: VL032749.D

Acq: 14 Nov 2018 6:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL111418

Tot Ion: 91 Resp: 3796220

Ion Ratio Lower Upper

91 100

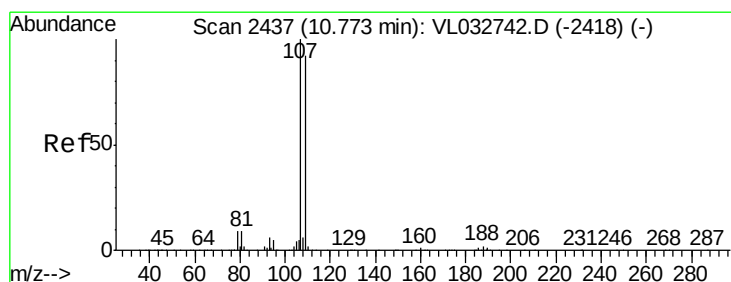
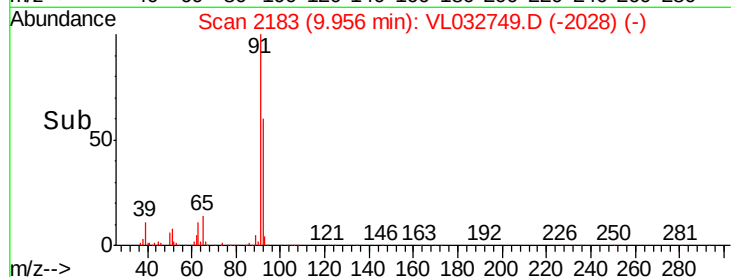
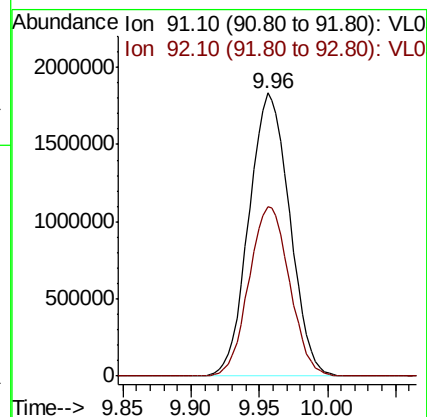
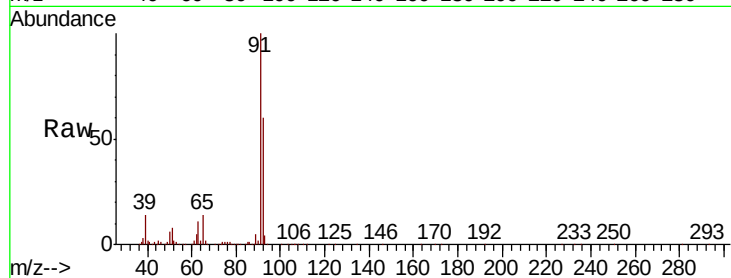
92 59.9 47.9 71.9

Manual Integrations

APPROVED

MMDadoda

11/16/2018 1:29:50 PM



#54

1,2-Dibromoethane

Concen: 9.797 ppbv

RT: 10.77 min Scan# 2436

Delta R.T. -0.00 min

Lab File: VL032749.D

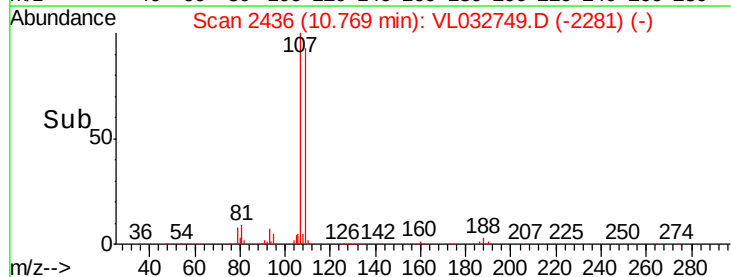
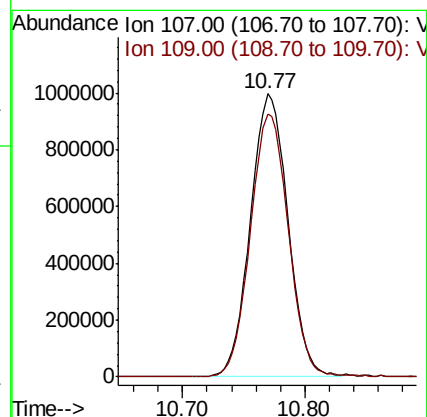
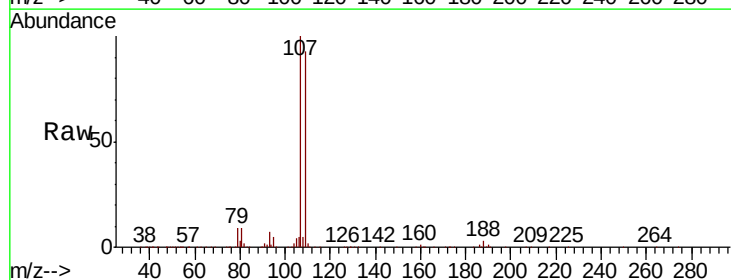
Acq: 14 Nov 2018 6:54

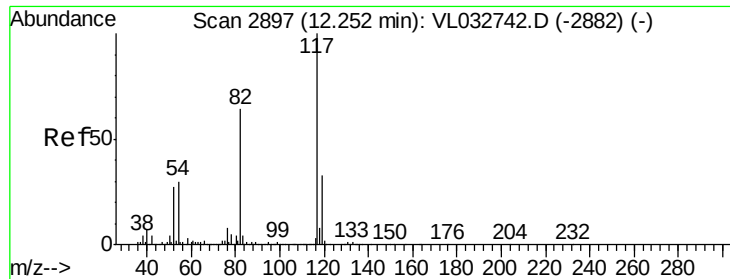
Tgt Ion: 107 Resp: 2115826

Ion Ratio Lower Upper

107 100

109 92.8 73.8 110.8





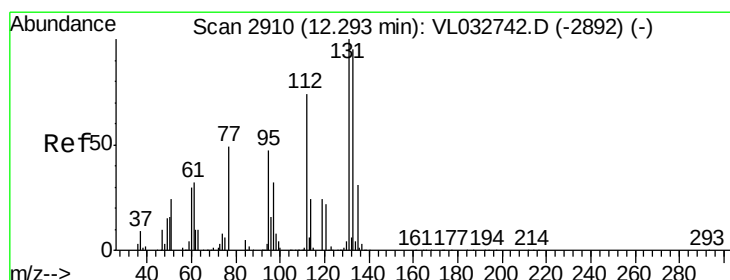
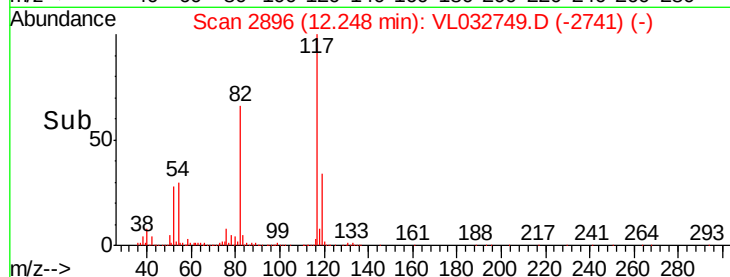
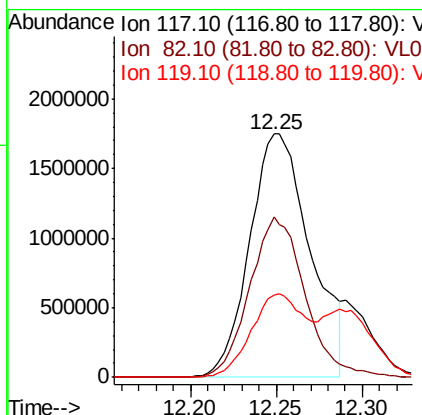
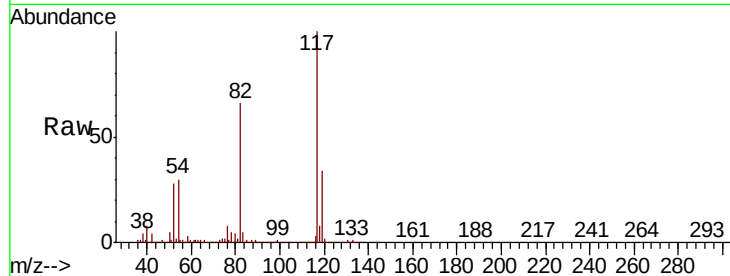
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.25 min Scan# 2896
Delta R.T. -0.00 min
Lab File: VL032749.D
Acq: 14 Nov 2018 6:54

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111418

Tot Ion:117 Resp: 4301622
Ion Ratio Lower Upper
117 100
82 60.4 51.0 76.6
119 54.0 28.0 42.0#

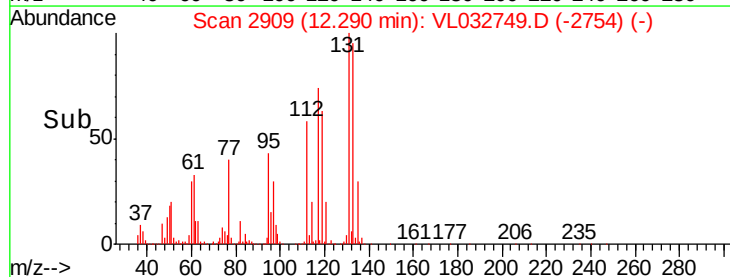
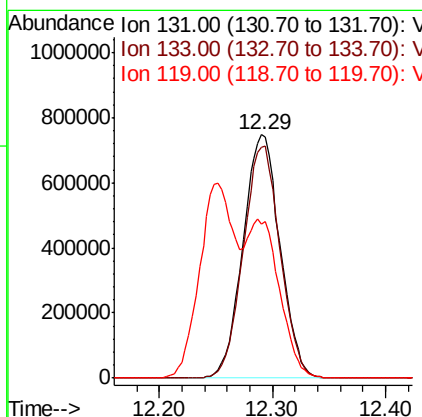
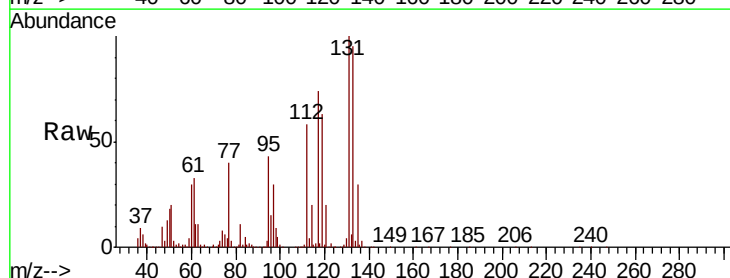
Manual Integrations
APPROVED

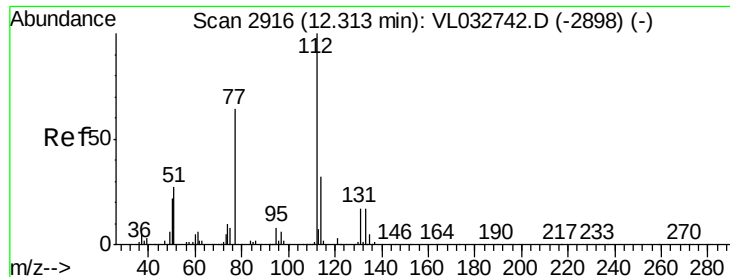
MMDadoda
11/16/2018 1:29:50 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 8.478 ppbv
RT: 12.29 min Scan# 2909
Delta R.T. -0.00 min
Lab File: VL032749.D
Acq: 14 Nov 2018 6:54

Tgt Ion:131 Resp: 1700949
Ion Ratio Lower Upper
131 100
133 95.2 75.8 113.6
119 56.4 45.2 67.8





#57

Chlorobenzene

Concen: 8.636 ppbv

RT: 12.31 min Scan# 2916

Delta R.T. 0.00 min

Lab File: VL032749.D

Acq: 14 Nov 2018 6:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL111418

Tot Ion: 112 Resp: 2843711

Ion Ratio Lower Upper

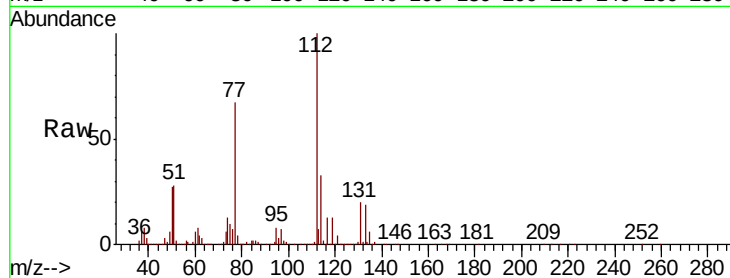
112 100

77 67.1 52.3 78.5

114 33.3 28.4 34.8

Manual Integrations
APPROVED

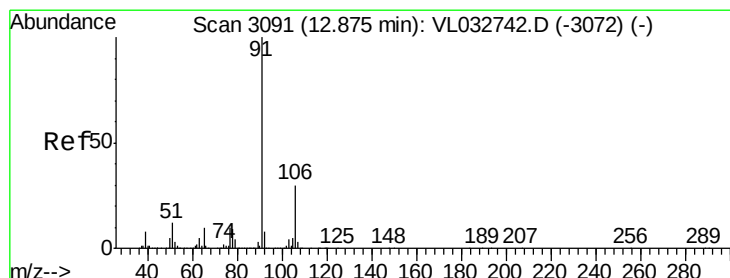
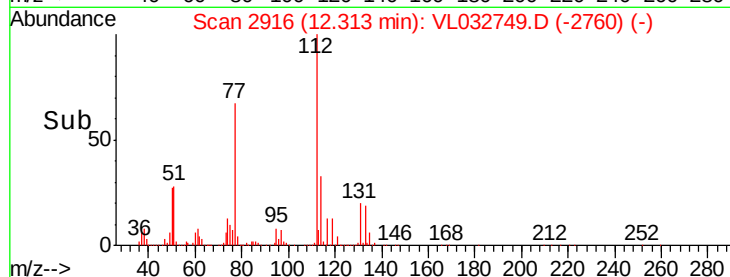
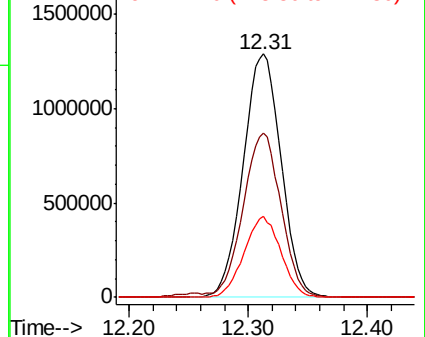
MMDadoda
11/16/2018 1:29:50 PM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 9.847 ppbv

RT: 12.87 min Scan# 3090

Delta R.T. -0.00 min

Lab File: VL032749.D

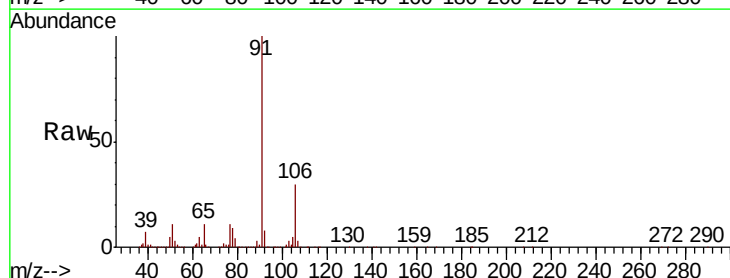
Acq: 14 Nov 2018 6:54

Tgt Ion: 91 Resp: 5097509

Ion Ratio Lower Upper

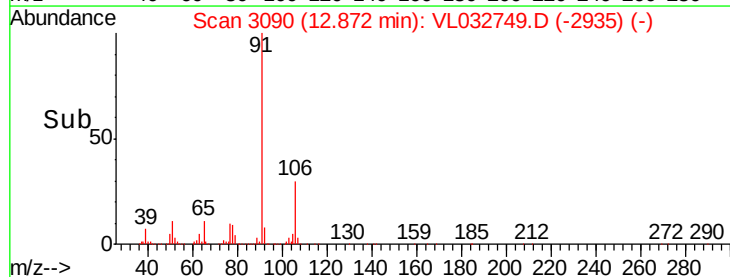
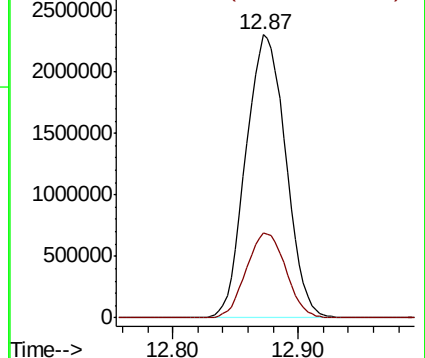
91 100

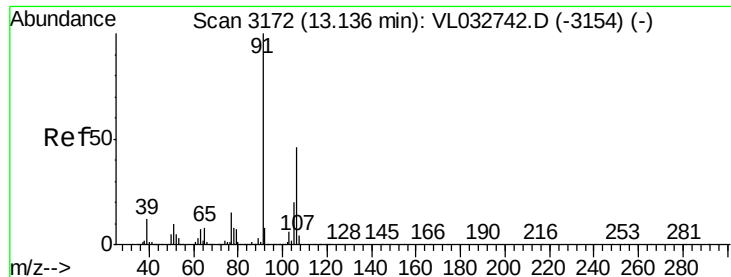
106 30.2 23.6 35.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





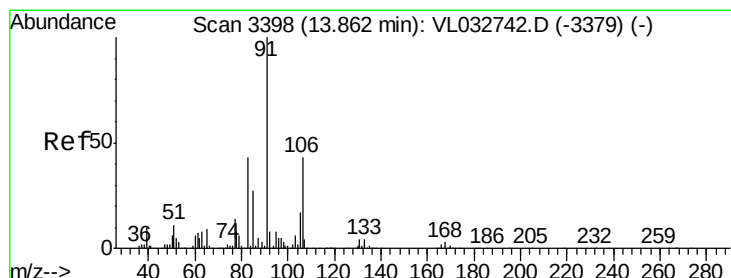
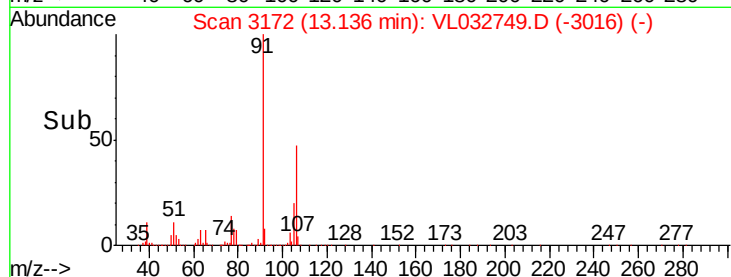
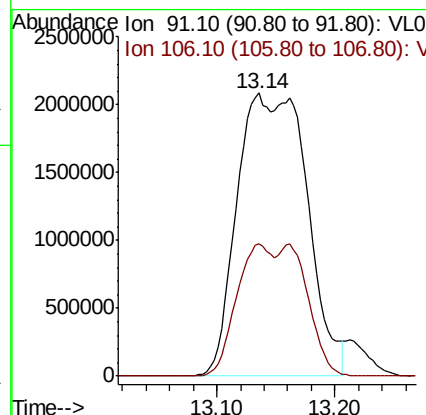
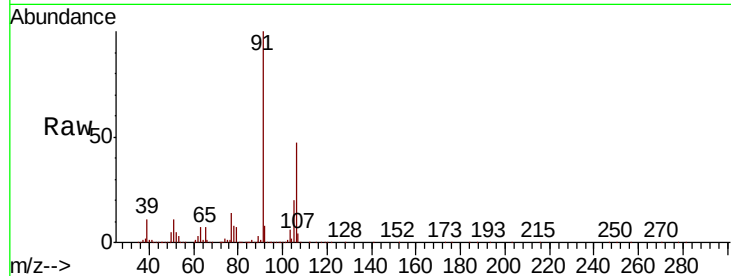
#59
m/p-Xylene
Concen: 18.413 ppbv m
RT: 13.14 min Scan# 3172
Delta R.T. 0.00 min
Lab File: VL032749.D
Acq: 14 Nov 2018 6:54

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111418

Tot Ion: 91 Resp: 8485889
Ion Ratio Lower Upper
91 100
106 0.0 36.1 54.1#

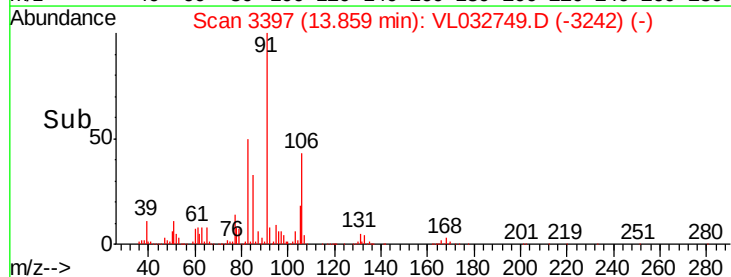
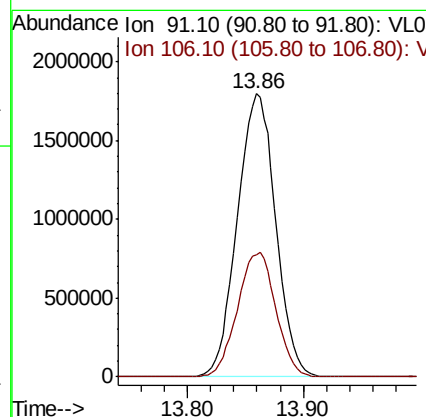
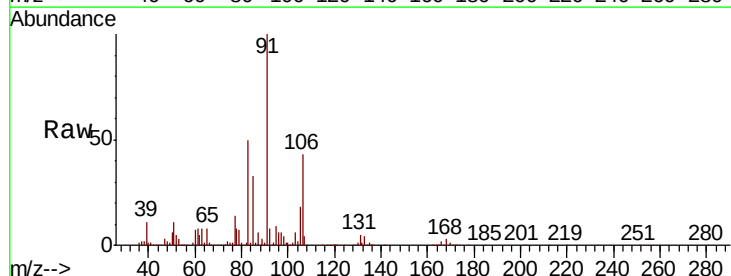
Manual Integrations
APPROVED

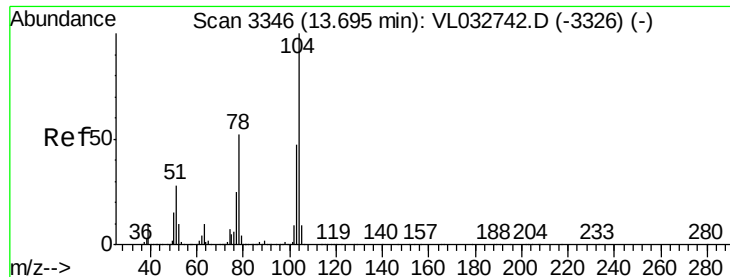
MMDadoda
11/16/2018 1:29:50 PM



#60
o-Xylene
Concen: 8.861 ppbv
RT: 13.86 min Scan# 3397
Delta R.T. -0.00 min
Lab File: VL032749.D
Acq: 14 Nov 2018 6:54

Tgt Ion: 91 Resp: 4106229
Ion Ratio Lower Upper
91 100
106 44.2 21.9 65.7





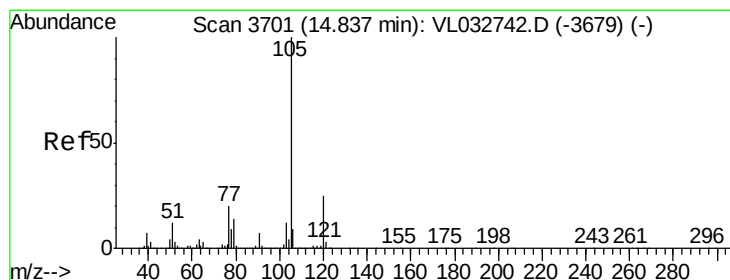
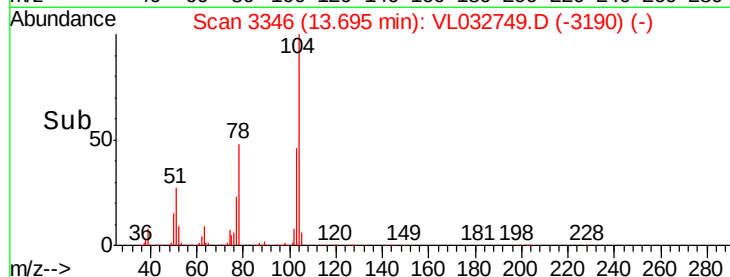
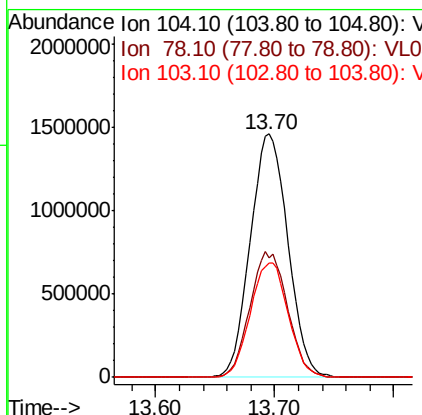
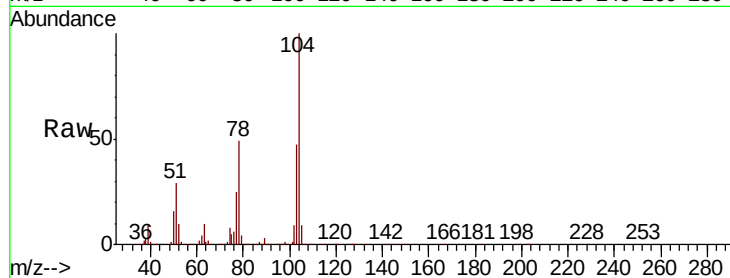
#61
Stvrene
Concen: 10.586 ppbv
RT: 13.70 min Scan# 3346
Delta R.T. 0.00 min
Lab File: VL032749.D
Acq: 14 Nov 2018 6:54

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111418

Tot Ion	Ratio	Lower	Upper
104	100		
78	51.6	42.2	63.4
103	47.5	38.2	57.2

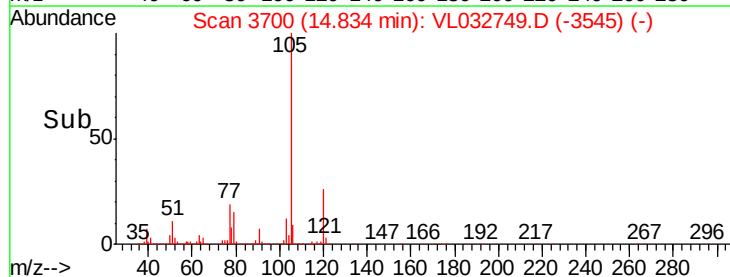
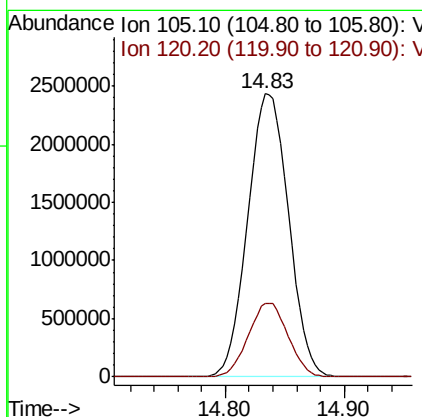
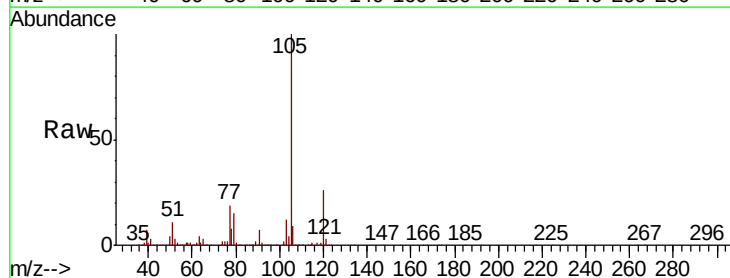
Manual Integrations
APPROVED

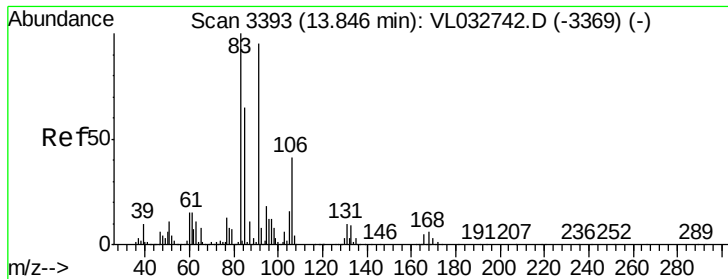
MMDadoda
11/16/2018 1:29:50 PM



#62
Isopropylbenzene
Concen: 9.232 ppbv
RT: 14.83 min Scan# 3700
Delta R.T. -0.00 min
Lab File: VL032749.D
Acq: 14 Nov 2018 6:54

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.4	20.1	30.1





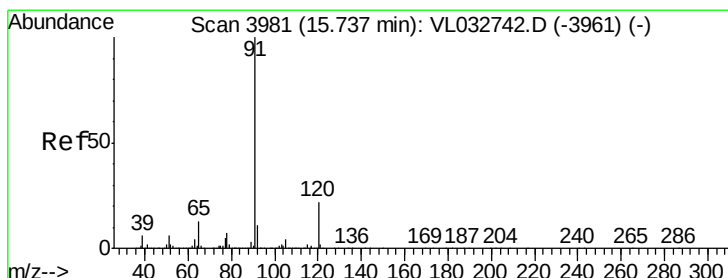
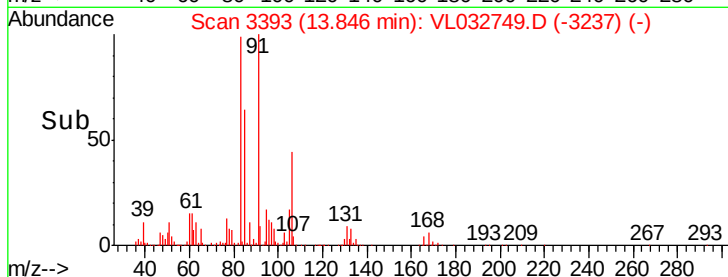
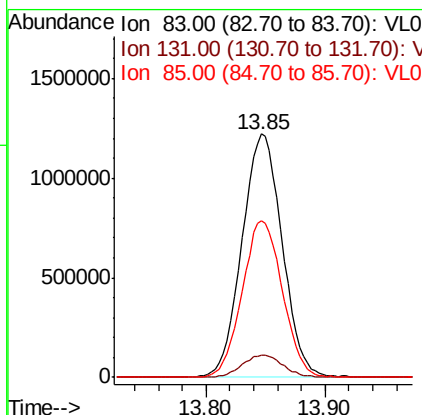
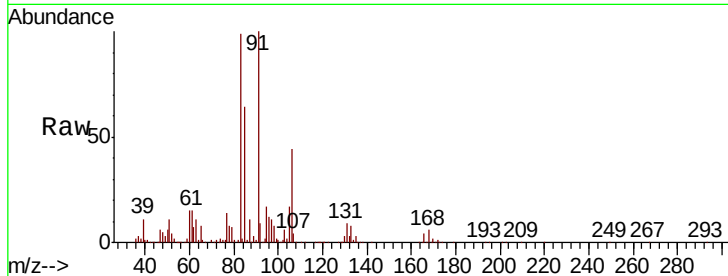
#63
 1,1,2,2-Tetrachloroethane
 Concen: 7.892 ppbv
 RT: 13.85 min Scan# 3393
 Delta R.T. 0.00 min
 Lab File: VL032749.D
 Acq: 14 Nov 2018 6:54

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111418

Tot Ion	83	Resp	2850949
Ion Ratio	100	Lower	Upper
83	100		
131	9.4	4.7	14.1
85	64.9	32.5	97.4

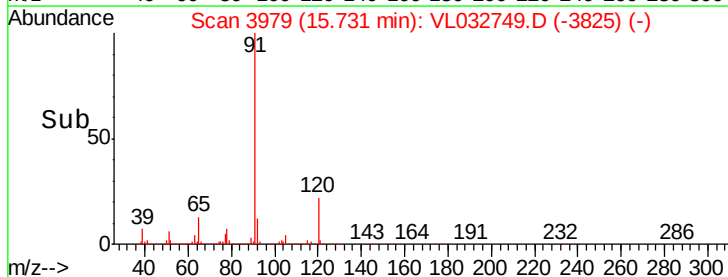
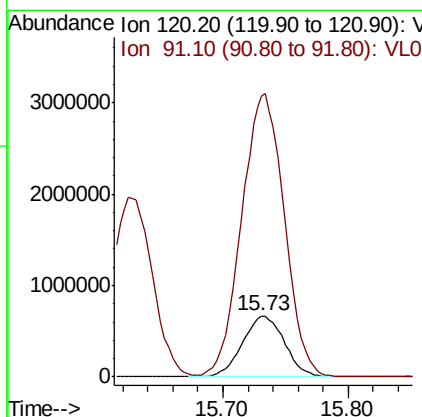
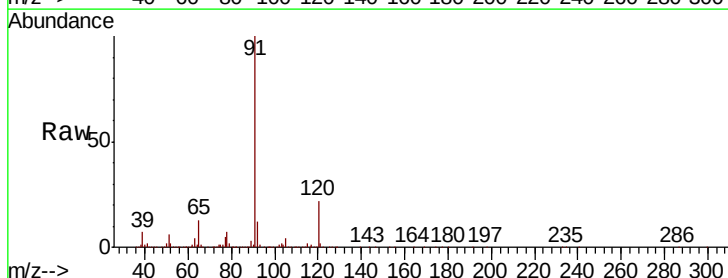
Manual Integrations
 APPROVED

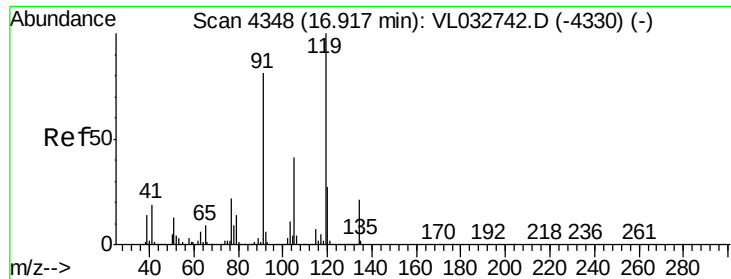
MMDadoda
 11/16/2018 1:29:50 PM



#64
 n-propylbenzene
 Concen: 9.359 ppbv
 RT: 15.73 min Scan# 3979
 Delta R.T. -0.01 min
 Lab File: VL032749.D
 Acq: 14 Nov 2018 6:54

Tgt Ion	120	Resp	1541827
Ion Ratio	100	Lower	Upper
120	100		
91	476.0	381.7	572.5





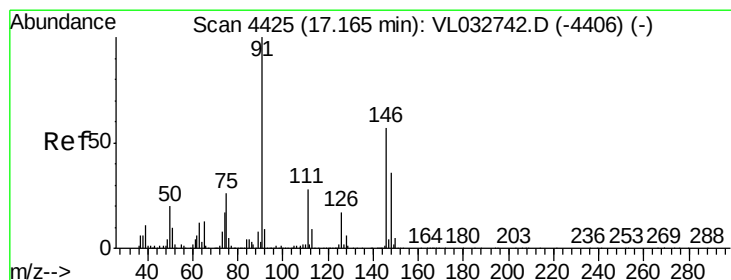
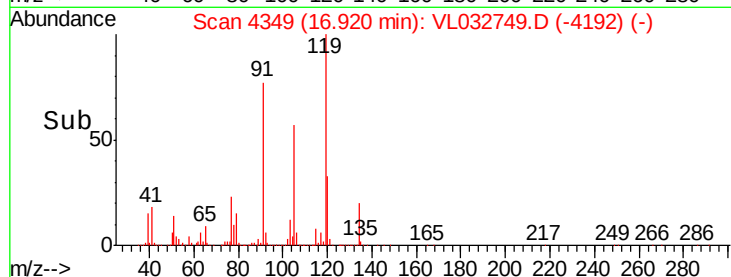
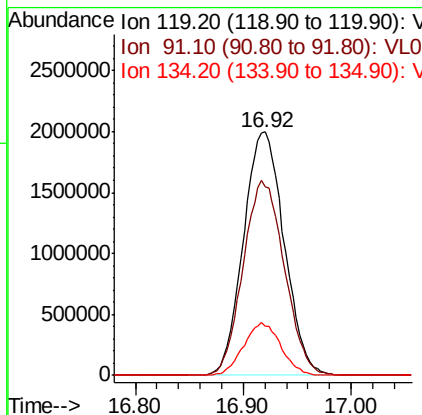
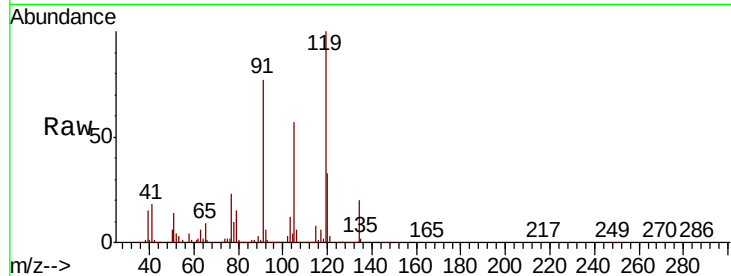
#65
tert-Butylbenzene
Concen: 9.319 ppbv
RT: 16.92 min Scan# 4349
Delta R.T. 0.00 min
Lab File: VL032749.D
Acq: 14 Nov 2018 6:54

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111418

Tot Ion	Ratio	Lower	Upper
119	100		
91	81.3	65.6	98.4
134	19.8	15.9	23.9

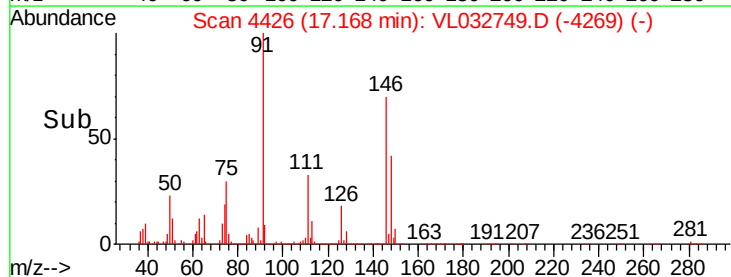
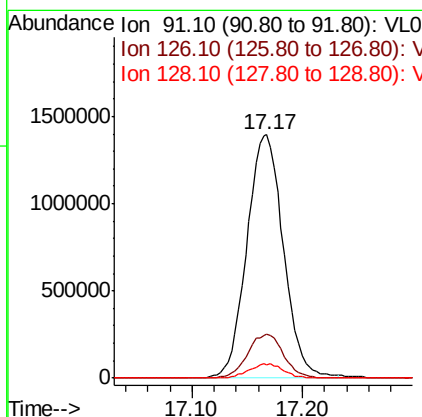
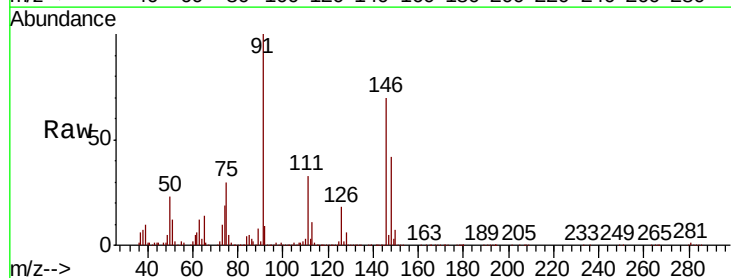
Manual Integrations
APPROVED

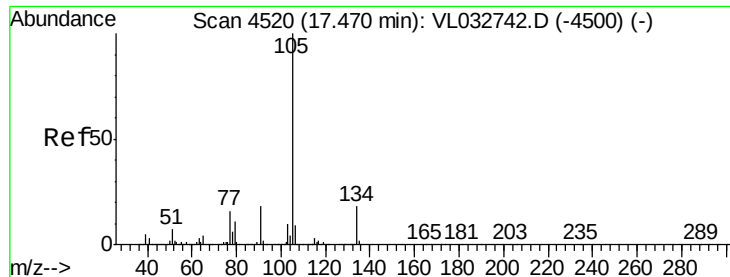
MMDadoda
11/16/2018 1:29:50 PM



#66
Benzyl Chloride
Concen: 10.301 ppbv
RT: 17.17 min Scan# 4426
Delta R.T. 0.00 min
Lab File: VL032749.D
Acq: 14 Nov 2018 6:54

Tgt Ion	Ratio	Lower	Upper
91	100		
126	17.9	14.2	21.2
128	5.7	4.5	6.7





#67

sec-Butylbenzene

Concen: 9.106 ppbv

RT: 17.47 min Scan# 4520

Delta R.T. 0.00 min

Lab File: VL032749.D

Acq: 14 Nov 2018 6:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL111418

Tot Ion: 105 Resp: 7368347

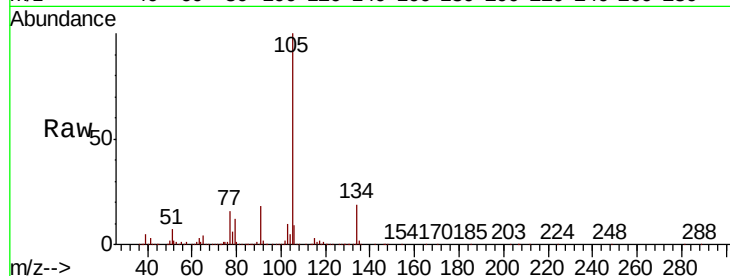
Ion Ratio Lower Upper

105 100

134 18.3 14.6 21.8

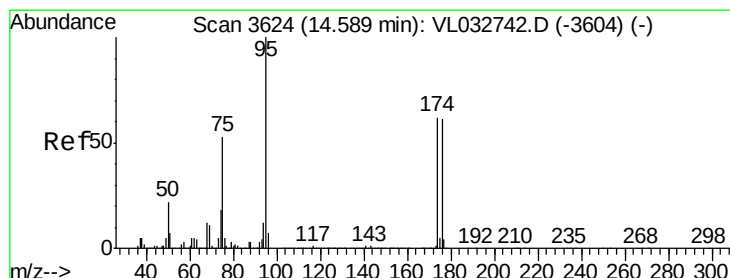
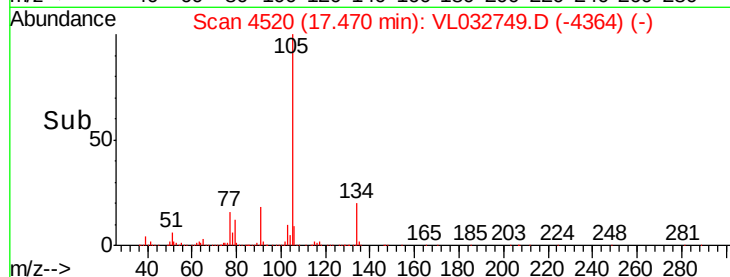
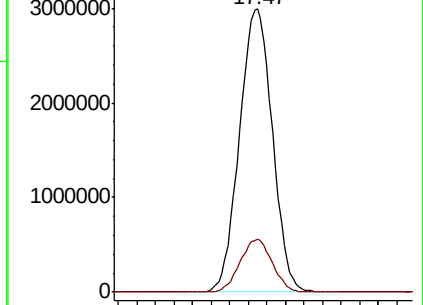
Manual Integrations
APPROVED

MMDadoda
11/16/2018 1:29:50 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.344 ppbv

RT: 14.59 min Scan# 3623

Delta R.T. -0.00 min

Lab File: VL032749.D

Acq: 14 Nov 2018 6:54

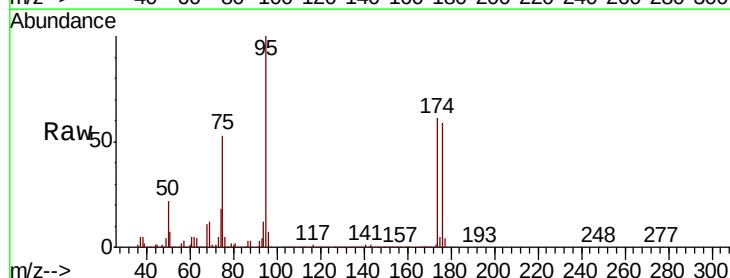
Tgt Ion: 95 Resp: 3006378

Ion Ratio Lower Upper

95 100

174 63.7 50.7 76.1

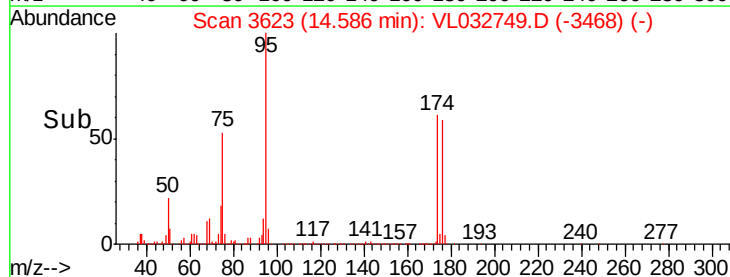
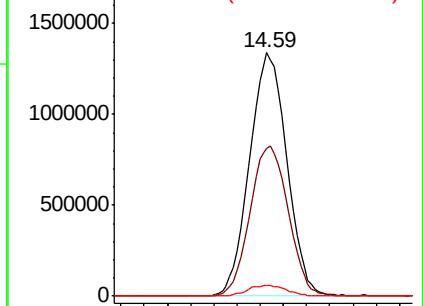
175 4.7 3.8 5.6

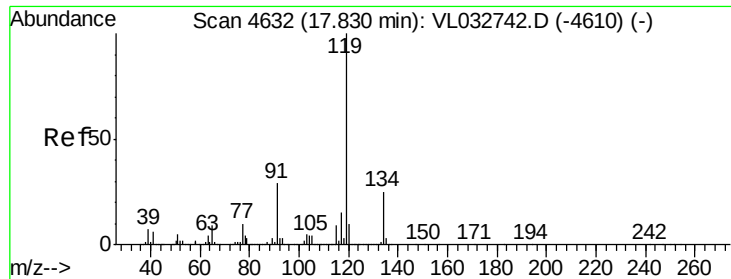


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





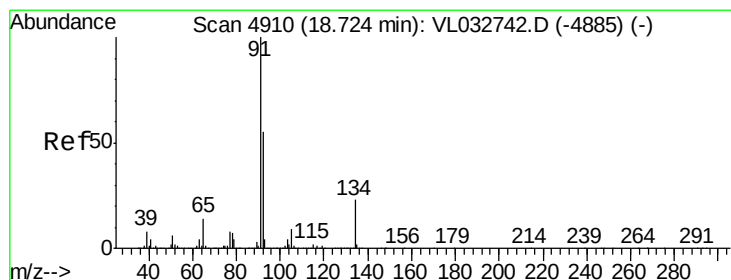
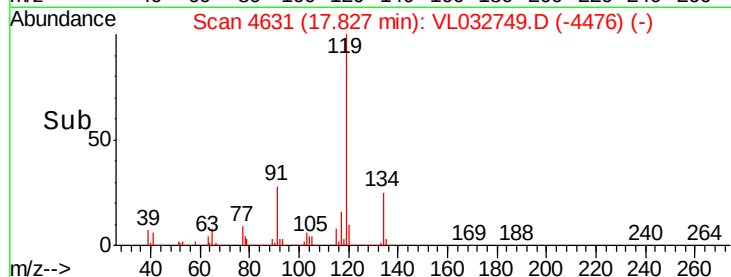
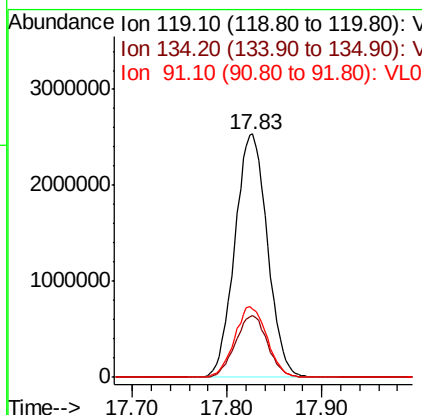
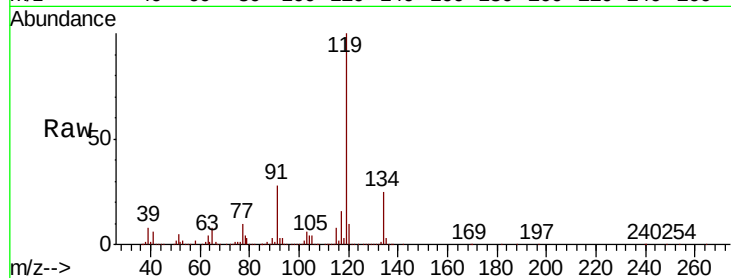
#69
 p-Isopropyltoluene
 Concen: 9.417 ppbv
 RT: 17.83 min Scan# 4631
 Delta R.T. -0.00 min
 Lab File: VL032749.D
 Acq: 14 Nov 2018 6:54

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111418

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.1	20.2	30.4
91	29.0	23.5	35.3

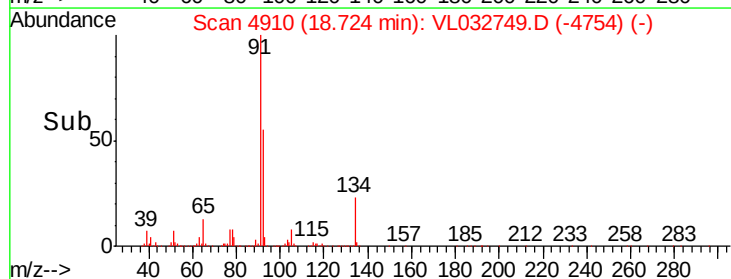
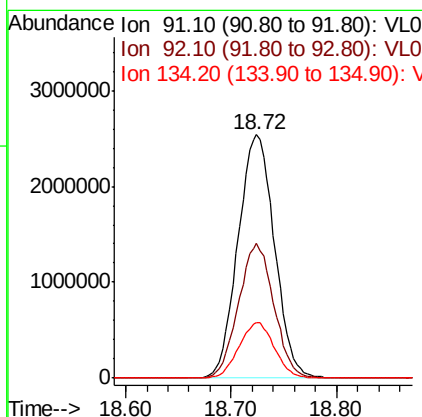
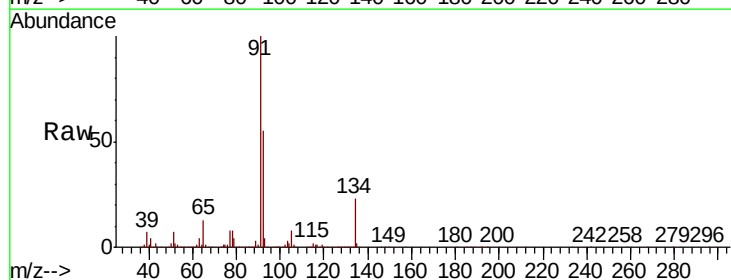
Manual Integrations
 APPROVED

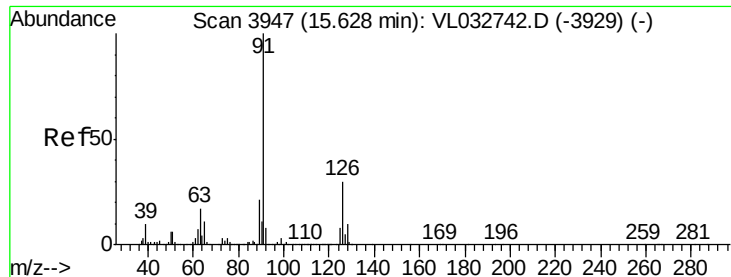
MMDadoda
 11/16/2018 1:29:50 PM



#70
 n-Butylbenzene
 Concen: 9.314 ppbv
 RT: 18.72 min Scan# 4910
 Delta R.T. 0.00 min
 Lab File: VL032749.D
 Acq: 14 Nov 2018 6:54

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.7	42.9	64.3
134	22.3	17.8	26.8





#71

2-Chlorotoluene

Concen: 9.735 ppbv

RT: 15.62 min Scan# 3946

Delta R.T. -0.00 min

Lab File: VL032749.D

Acq: 14 Nov 2018 6:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL111418

Tot Ion: 91 Resp: 4547115

Ion Ratio Lower Upper

91 100

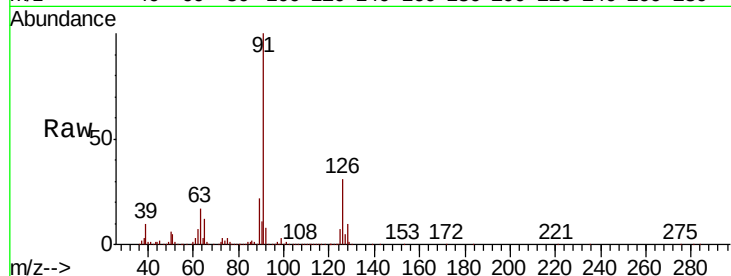
126 30.6 12.1 48.5

Manual Integrations

APPROVED

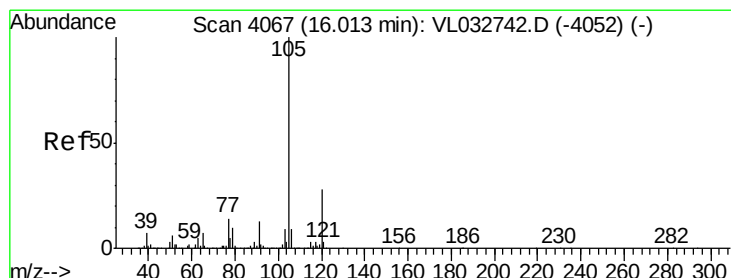
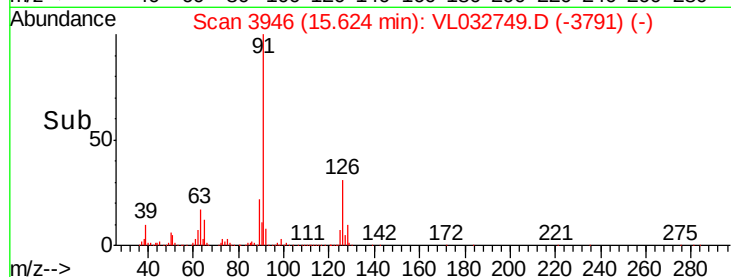
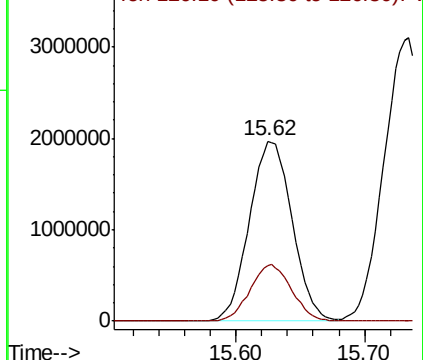
MMDadoda

11/16/2018 1:29:50 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 9.682 ppbv

RT: 16.01 min Scan# 4067

Delta R.T. 0.00 min

Lab File: VL032749.D

Acq: 14 Nov 2018 6:54

Tgt Ion:105 Resp: 4917524

Ion Ratio Lower Upper

105 100

120 28.9 22.9 34.3

91 12.7 10.6 15.8

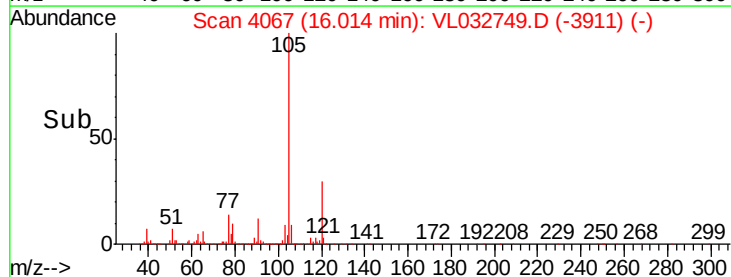
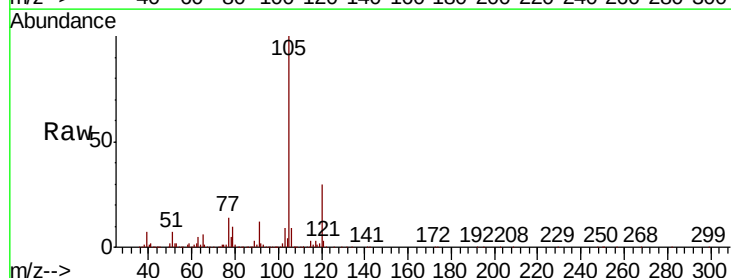
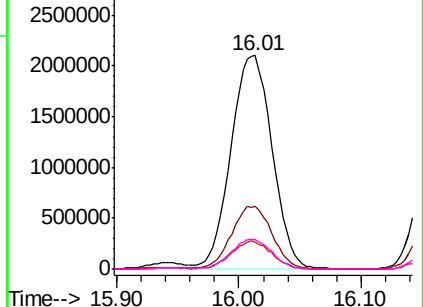
77 13.9 11.4 17.2

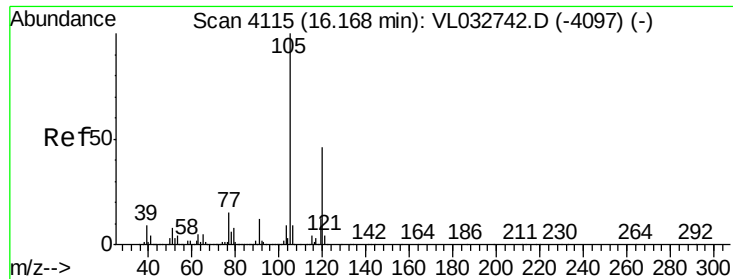
Abundance Ion 105.10 (104.80 to 105.80): V

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





#73

1,3,5-Trimethylbenzene

Concen: 9.412 ppbv

RT: 16.17 min Scan# 4116

Delta R.T. 0.00 min

Lab File: VL032749.D

Acq: 14 Nov 2018 6:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL111418

Tot Ion:105 Resp: 4674223

Ion Ratio Lower Upper

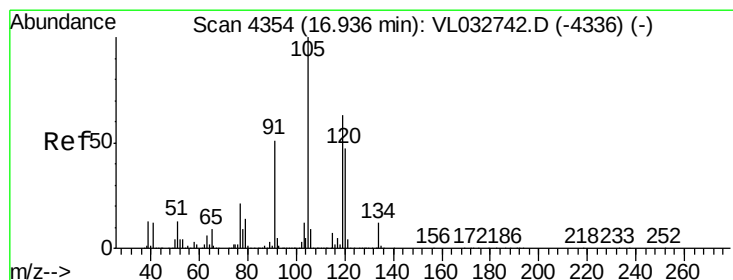
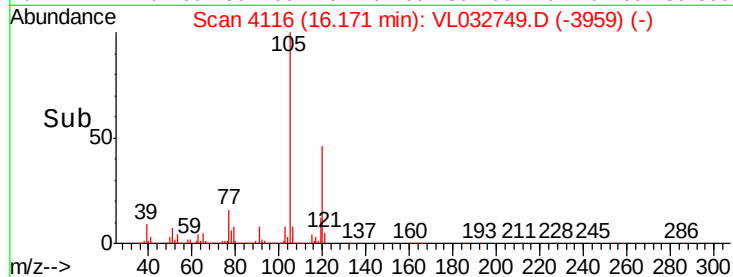
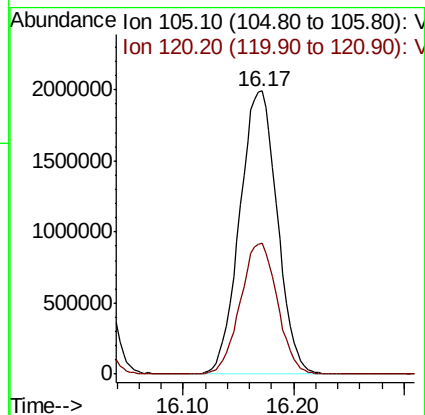
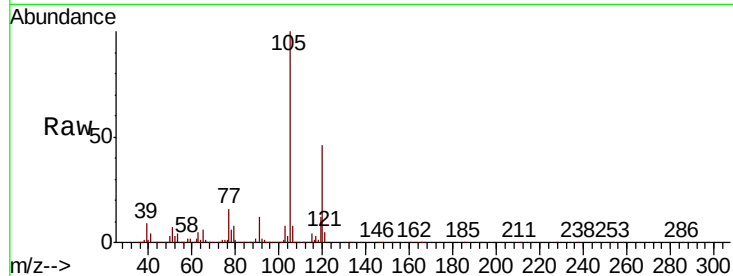
105 100

120 46.1 36.6 55.0

Manual Integrations
APPROVED

MMDadoda

11/16/2018 1:29:50 PM



#74

1,2,4-Trimethylbenzene

Concen: 8.845 ppbv

RT: 16.94 min Scan# 4354

Delta R.T. 0.00 min

Lab File: VL032749.D

Acq: 14 Nov 2018 6:54

Tgt Ion:105 Resp: 4700239

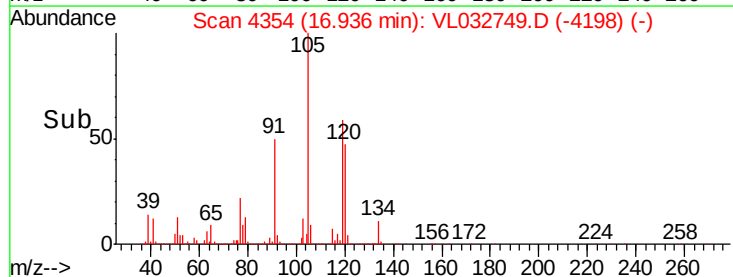
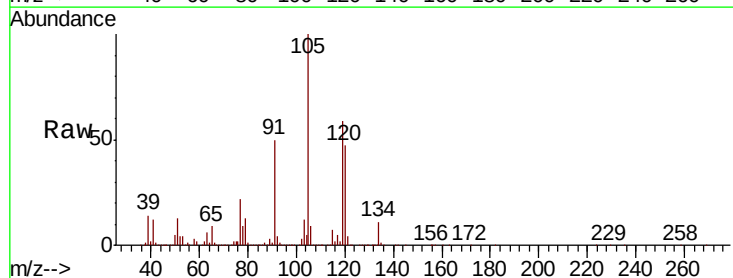
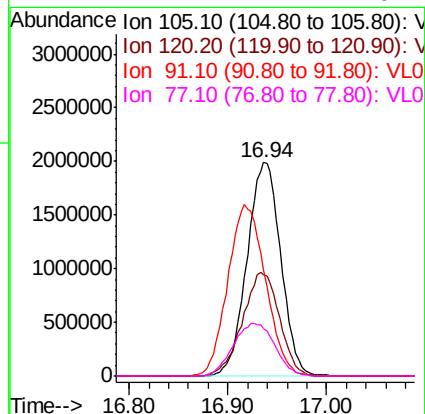
Ion Ratio Lower Upper

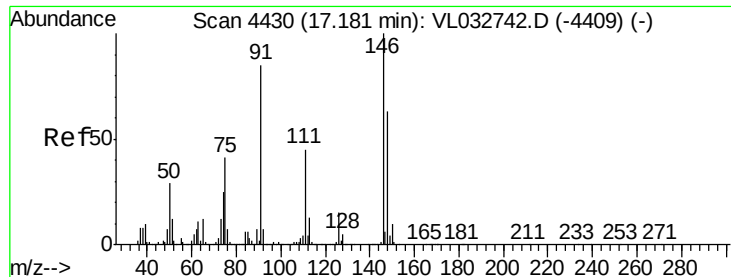
105 100

120 47.4 37.6 56.4

91 49.5 42.5 63.7

77 22.2 17.4 26.2





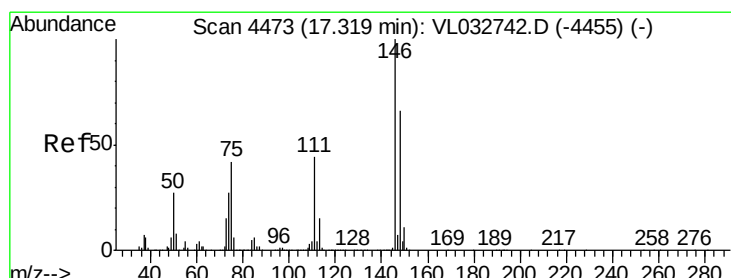
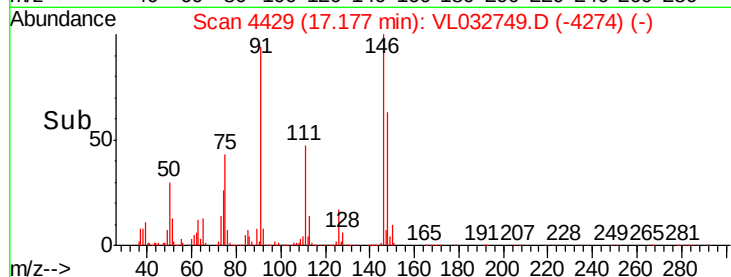
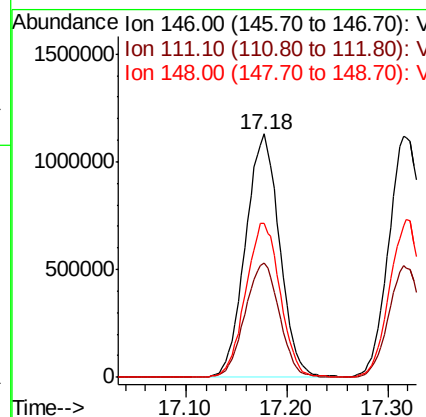
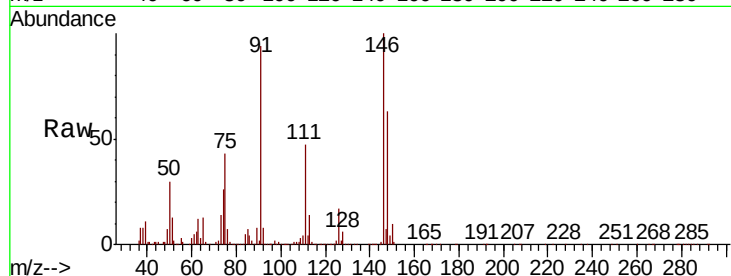
#75
 1,3-Dichlorobenzene
 Concen: 8.654 ppbv
 RT: 17.18 min Scan# 4429
 Delta R.T. -0.00 min
 Lab File: VL032749.D
 Acq: 14 Nov 2018 6:54

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111418

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.6	23.5	70.6
148	64.2	31.8	95.3

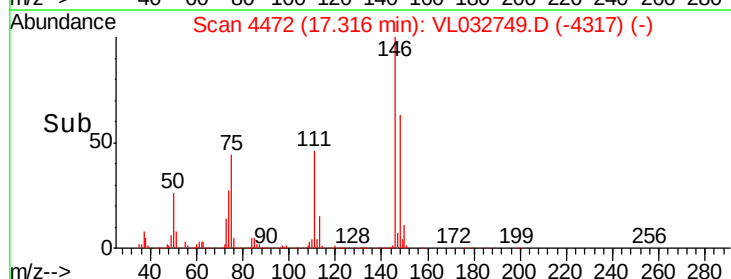
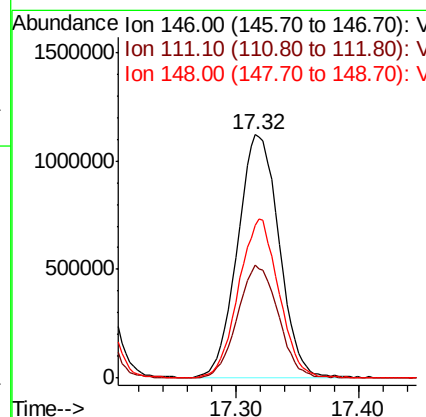
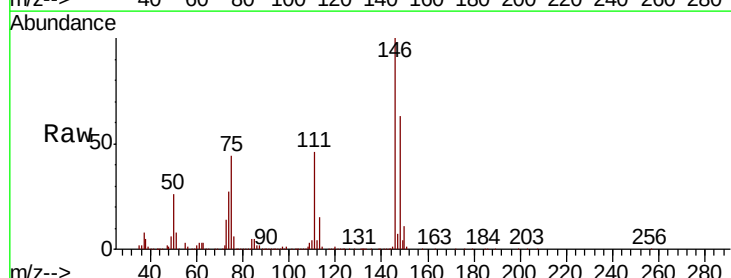
Manual Integrations
 APPROVED

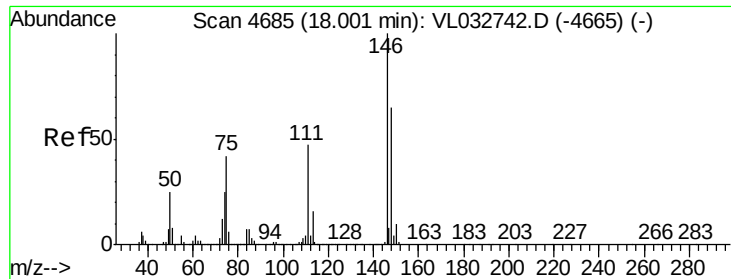
MMDadoda
 11/16/2018 1:29:50 PM



#76
 1,4-Dichlorobenzene
 Concen: 9.194 ppbv
 RT: 17.32 min Scan# 4472
 Delta R.T. -0.00 min
 Lab File: VL032749.D
 Acq: 14 Nov 2018 6:54

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.9	22.5	67.5
148	63.8	32.5	97.5





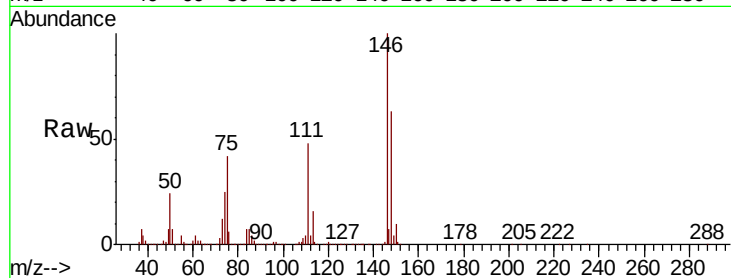
#77
 1,2-Dichlorobenzene
 Concen: 8.999 ppbv
 RT: 18.00 min Scan# 4684
 Delta R.T. -0.00 min
 Lab File: VL032749.D
 Acq: 14 Nov 2018 6:54

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111418

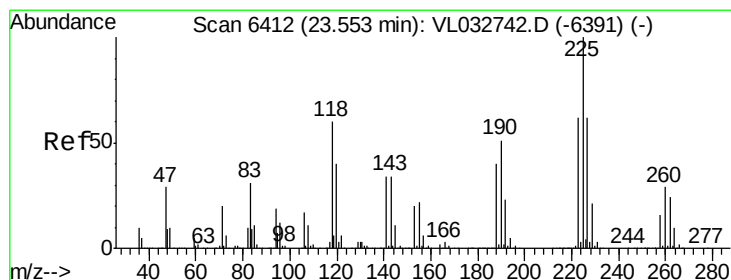
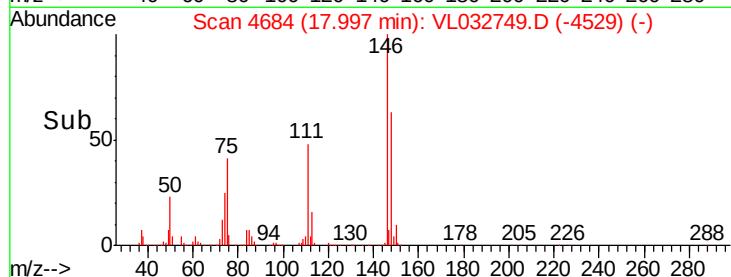
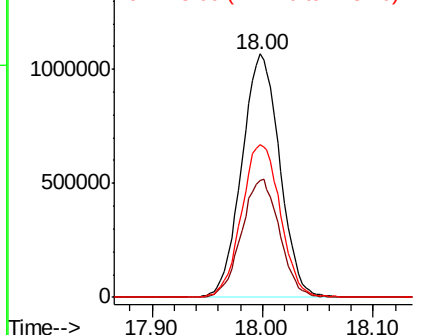
Tot Ion:146 Resp: 2537752
 Ion Ratio Lower Upper
 146 100
 111 48.8 24.4 73.2
 148 64.4 32.2 96.6

Manual Integrations
 APPROVED

MMDadoda
 11/16/2018 1:29:50 PM

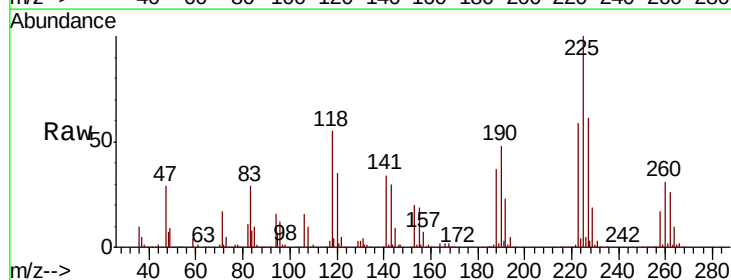


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V

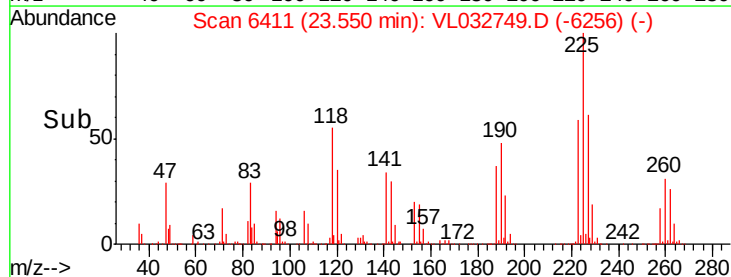
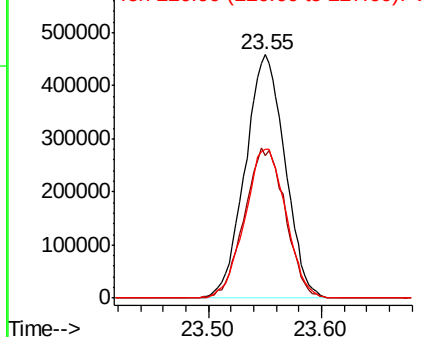


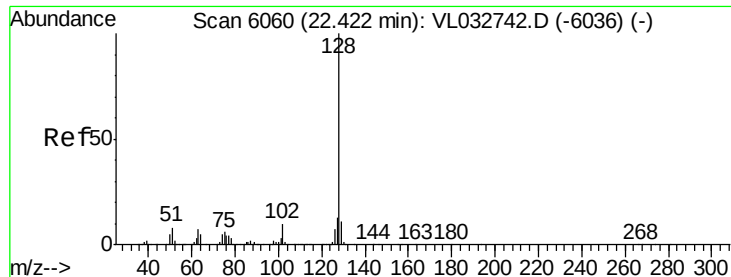
#78
 Hexachloro-1,3-Butadiene
 Concen: 7.360 ppbv
 RT: 23.55 min Scan# 6411
 Delta R.T. -0.00 min
 Lab File: VL032749.D
 Acq: 14 Nov 2018 6:54

Tgt Ion:225 Resp: 1120085
 Ion Ratio Lower Upper
 225 100
 223 63.2 50.3 75.5
 227 63.2 50.2 75.4



Abundance Ion 224.90 (224.60 to 225.60): V
 Ion 222.90 (222.60 to 223.60): V
 Ion 226.90 (226.60 to 227.60): V





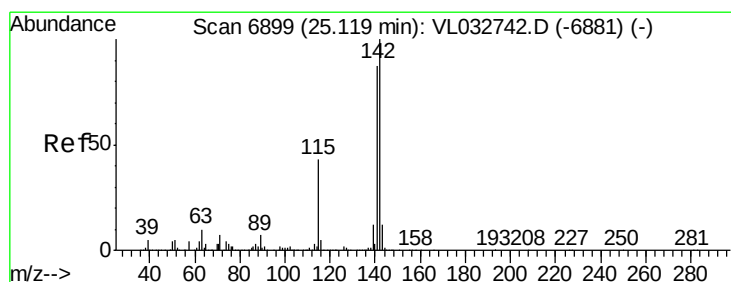
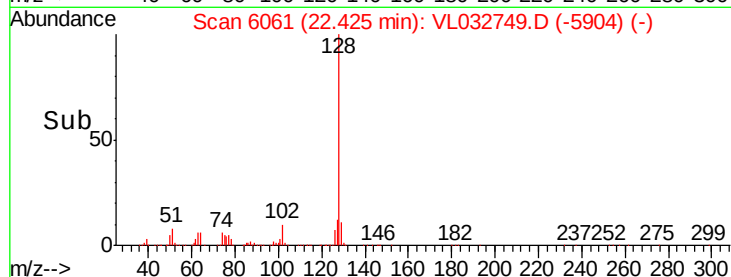
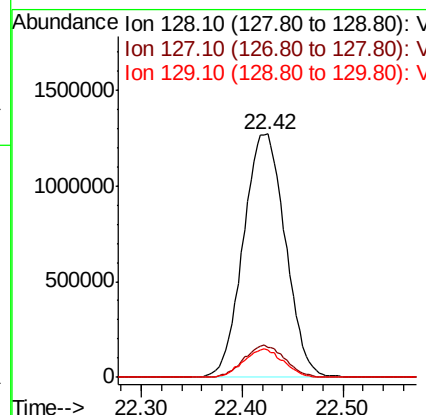
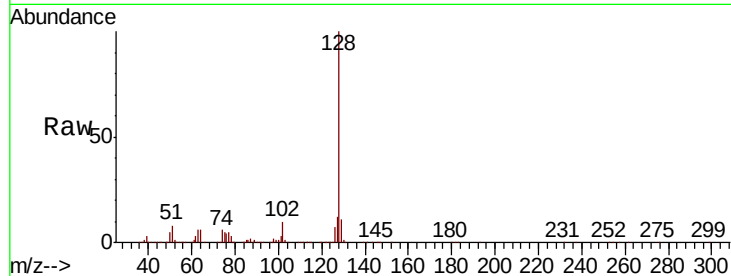
#79
Naphthalene
Concen: 10.515 ppbv
RT: 22.42 min Scan# 6061
Delta R.T. 0.00 min
Lab File: VL032749.D
Acq: 14 Nov 2018 6:54

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111418

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.3	10.1	15.1
129	11.2	8.9	13.3

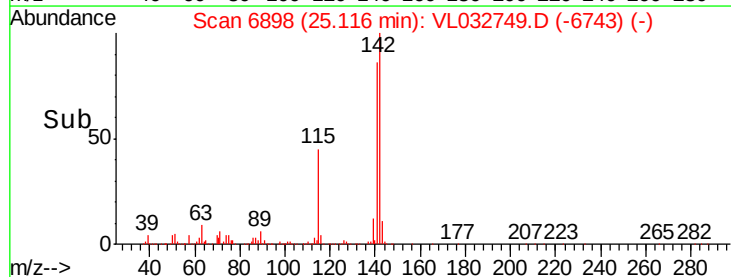
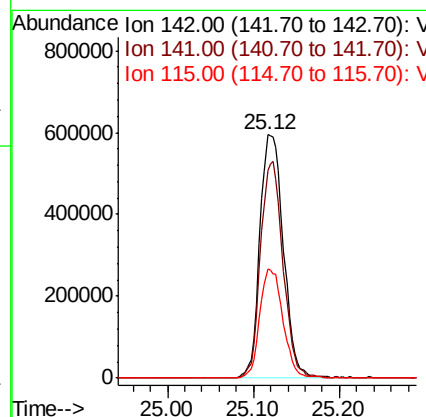
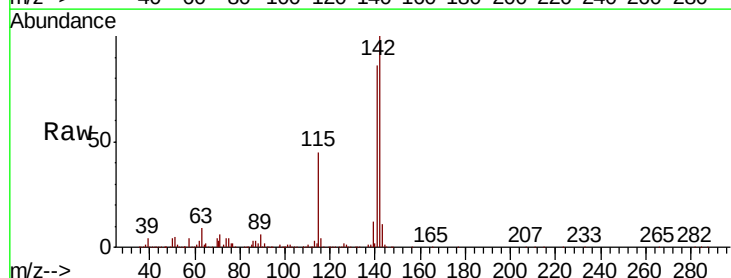
Manual Integrations
APPROVED

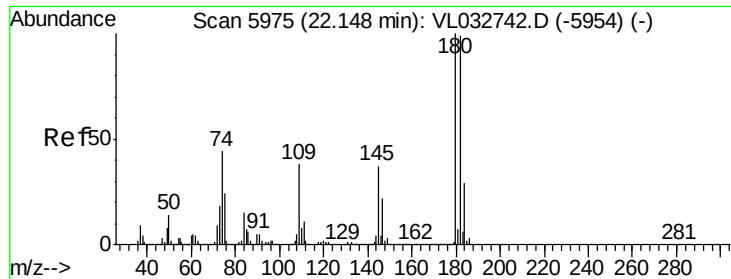
MMDadoda
11/16/2018 1:29:50 PM



#80
Naphthalene, 2-methyl-
Concen: 13.027 ppbv
RT: 25.12 min Scan# 6898
Delta R.T. -0.00 min
Lab File: VL032749.D
Acq: 14 Nov 2018 6:54

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.4	68.7	103.1
115	44.2	35.5	53.3





#81
 1,2,4-Trichlorobenzene
 Concen: 10.171 ppbv
 RT: 22.15 min Scan# 5974
 Delta R.T. -0.00 min
 Lab File: VL032749.D
 Acq: 14 Nov 2018 6:54

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111418

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.2	77.3	115.9
184	30.3	24.2	36.4

Manual Integrations
 APPROVED

MMDadoda
 11/16/2018 1:29:50 PM

