

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX041018\
 Data File : VX000748.D
 Acq On : 10 Apr 2018 13:09
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 4/11/2018 11:20:41 AM

Quant Time: Apr 10 15:20:52 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X041018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 10 15:11:30 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	259955	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	351422	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	330299	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	220586	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	17245	5.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.90%	
35) Dibromofluoromethane	5.51	113	13688	5.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.10%	
50) Toluene-d8	8.72	98	51282	5.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.44%	
62) 4-Bromofluorobenzene	11.15	95	20917	5.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.52%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	14070	4.63	ug/l	97
3) Chloromethane	1.32	50	12357	4.84	ug/l	97
4) Vinyl Chloride	1.40	62	13932	4.85	ug/l	96
5) Bromomethane	1.64	94	5687	4.79	ug/l	97
6) Chloroethane	1.72	64	9389	5.64	ug/l	99
7) Trichlorofluoromethane	1.93	101	21872	5.08	ug/l	99
8) Diethyl Ether	2.20	74	8223	5.26	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	2.39	101	12803	5.15	ug/l	96
10) Methyl Iodide	2.51	142	4134	2.38	ug/l #	96
11) Tert butyl alcohol	3.07	59	16389	27.75	ug/l	100
12) 1,1-Dichloroethene	2.37	96	12365	5.22	ug/l	97
13) Acrolein	2.30	56	6556	23.13	ug/l	92
14) Allyl chloride	2.73	41	22235	5.07	ug/l	98
15) Acrylonitrile	3.15	53	31556	24.91	ug/l	98
16) Acetone	2.45	43	28438	25.17	ug/l	98
17) Carbon Disulfide	2.57	76	36029	5.12	ug/l	100
18) Methyl Acetate	2.78	43	15162	5.10	ug/l	98
19) Methyl tert-butyl Ether	3.21	73	41493	5.17	ug/l	99
20) Methylene Chloride	2.86	84	13747	5.44	ug/l	99
21) trans-1,2-Dichloroethene	3.17	96	13369	5.20	ug/l	95
22) Diisopropyl ether	3.88	45	41867	5.16	ug/l	98
23) Vinyl Acetate	3.83	43	187204	26.35	ug/l	99
24) 1,1-Dichloroethane	3.70	63	23643	5.26	ug/l	98
25) 2-Butanone	4.71	43	48307	25.23	ug/l	97
26) 2,2-Dichloropropane	4.59	77	23192	5.18	ug/l	97
27) cis-1,2-Dichloroethene	4.60	96	15250	5.10	ug/l	99
28) Bromochloromethane	5.03	49	10431	5.93	ug/l	99
29) Tetrahydrofuran	5.18	42	30655	25.43	ug/l	99
30) Chloroform	5.22	83	24621	5.06	ug/l	100
31) Cyclohexane	5.59	56	21932	5.18	ug/l	97
32) 1,1,1-Trichloroethane	5.51	97	22945	4.94	ug/l	97
36) 1,1-Dichloropropene	5.81	75	19605	5.24	ug/l	99
37) Ethyl Acetate	4.87	43	18878	4.98	ug/l	97
38) Carbon Tetrachloride	5.79	117	20929	4.88	ug/l	99

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX041018\
 Data File : VX000748.D
 Acq On : 10 Apr 2018 13:09
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 4/11/2018 11:20:41 AM

Quant Time: Apr 10 15:20:52 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X041018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 10 15:11:30 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.47	83	23314	5.22	ug/l	93
40) Benzene	6.15	78	53689	5.05	ug/l	99
41) Methacrylonitrile	5.07	41	10853	4.98	ug/l	97
42) 1,2-Dichloroethane	6.21	62	20390	5.13	ug/l	99
43) Isopropyl Acetate	6.48	43	31978	4.98	ug/l	99
44) Trichloroethene	7.22	130	16593	5.03	ug/l	100
45) 1,2-Dichloropropane	7.52	63	13763	5.01	ug/l	97
46) Dibromomethane	7.67	93	9396	4.98	ug/l	97
47) Bromodichloromethane	7.91	83	19266	4.97	ug/l	96
48) Methyl methacrylate	7.79	41	16744	4.99	ug/l	98
49) 1,4-Dioxane	7.76	88	6846	101.28	ug/l	95
51) 4-Methyl-2-Pentanone	8.66	43	95478	24.84	ug/l	100
52) Toluene	8.79	92	36005	5.14	ug/l	99
53) t-1,3-Dichloropropene	8.45	75	22718	4.88	ug/l	100
54) cis-1,3-Dichloropropene	9.05	75	21837	4.78	ug/l	99
55) 1,1,2-Trichloroethane	9.22	97	14002	5.06	ug/l	99
56) Ethyl methacrylate	9.19	69	21699	4.97	ug/l	100
57) 1,3-Dichloropropane	9.38	76	22417	4.95	ug/l	96
58) 2-Chloroethyl Vinyl ether	8.32	63	52758	25.25	ug/l	99
59) 2-Hexanone	9.51	43	74343	24.95	ug/l	99
60) Dibromochloromethane	9.59	129	16167	4.67	ug/l	100
61) 1,2-Dibromoethane	9.68	107	14568	4.83	ug/l	100
64) Tetrachloroethene	9.34	164	16183	5.07	ug/l	97
65) Chlorobenzene	10.15	112	41554	5.02	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.23	131	15584	4.97	ug/l	98
67) Ethyl Benzene	10.26	91	69200	5.02	ug/l	100
68) m/p-Xylenes	10.37	106	54088	9.92	ug/l	99
69) o-Xylene	10.71	106	26397	4.98	ug/l	99
70) Styrene	10.72	104	44024	4.92	ug/l	99
71) Bromoform	10.87	173	13373	4.42	ug/l #	99
73) Isopropylbenzene	11.02	105	72040	5.12	ug/l	100
74) N-amyl acetate	6.48	43	31978	5.06	ug/l #	99
75) 1,1,2,2-Tetrachloroethane	11.27	83	20029	4.94	ug/l	99
76) 1,2,3-Trichloropropane	11.30	75	19413m	5.02	ug/l	
77) Bromobenzene	11.26	156	20704	5.10	ug/l	99
78) n-propylbenzene	11.37	91	81459	5.13	ug/l	99
79) 2-Chlorotoluene	11.43	91	48166	5.11	ug/l	100
80) 1,3,5-Trimethylbenzene	11.51	105	60338	5.00	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.08	75	6671	4.75	ug/l	95
82) 4-Chlorotoluene	11.52	91	58806	5.23	ug/l	98
83) tert-Butylbenzene	11.77	119	62922	5.03	ug/l	97
84) 1,2,4-Trimethylbenzene	11.81	105	62895	5.09	ug/l	98
85) sec-Butylbenzene	11.95	105	72980	5.02	ug/l	99
86) p-Isopropyltoluene	12.07	119	68362	5.05	ug/l	98
87) 1,3-Dichlorobenzene	12.03	146	37890	5.04	ug/l	99
88) 1,4-Dichlorobenzene	12.10	146	39244	5.14	ug/l	94
89) n-Butylbenzene	12.40	91	59770	5.01	ug/l	100
90) Hexachloroethane	12.60	117	10849	4.59	ug/l	99
91) 1,2-Dichlorobenzene	12.40	146	36984	5.05	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	13.01	75	5156	5.08	ug/l	92

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX041018\
Data File : VX000748.D
Acq On : 10 Apr 2018 13:09
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

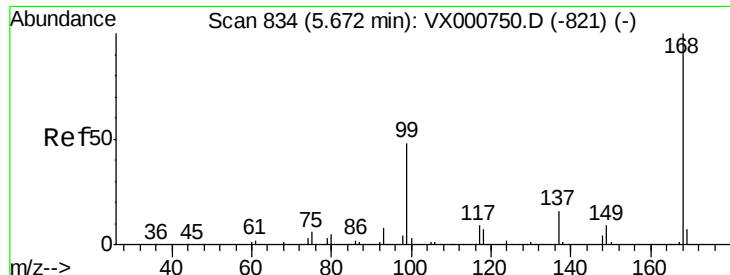
Manual Integrations
APPROVED

MMDadoda
4/11/2018 11:20:41 AM

Quant Time: Apr 10 15:20:52 2018
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X041018W.M
Quant Title : SW846 8260
QLast Update : Tue Apr 10 15:11:30 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.65	180	30551	4.92	ug/l	96
94) Hexachlorobutadiene	13.79	225	15741	5.18	ug/l	98
95) Naphthalene	13.84	128	79922	4.91	ug/l	99
96) 1,2,3-Trichlorobenzene	14.02	180	30274	5.01	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion:168 Resp: 259955

Ion Ratio Lower Upper

168 100

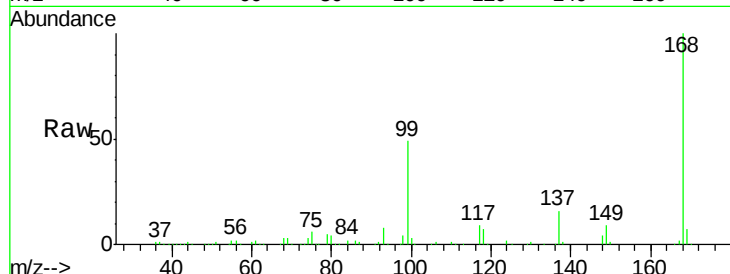
99 49.3 38.3 57.5

Manual Integrations

APPROVED

MMDadoda

4/11/2018 11:20:41 AM

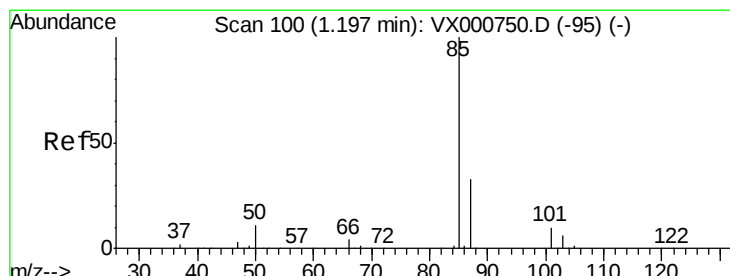
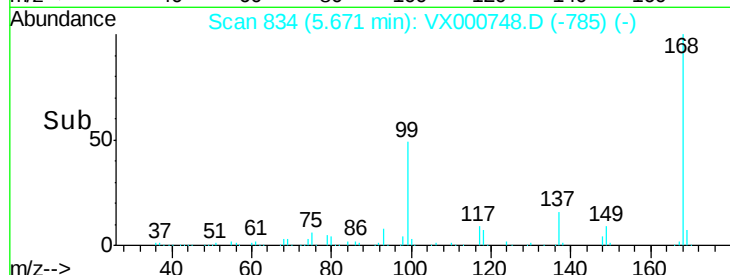


Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

Time-->



#2

Dichlorodifluoromethane

Concen: 4.63 ug/l

RT: 1.20 min Scan# 100

Delta R.T. -0.00 min

Lab File: VX000748.D

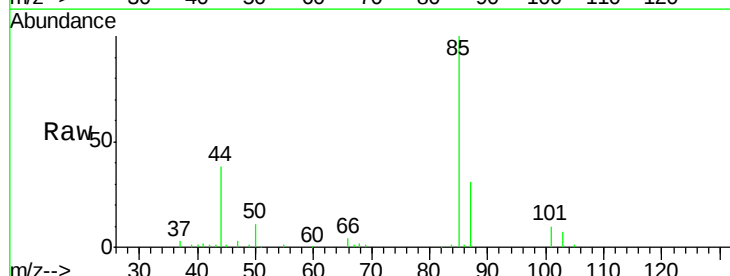
Acq: 10 Apr 2018 13:09

Tgt Ion: 85 Resp: 14070

Ion Ratio Lower Upper

85 100

87 30.7 16.3 48.8

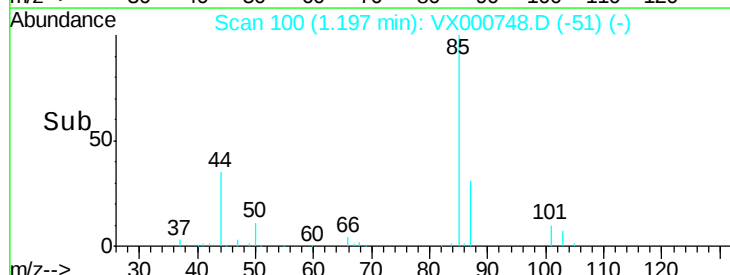


Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

Time-->





#3

Chloromethane

Concen: 4.84 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 12357

Ion Ratio Lower Upper

50 100

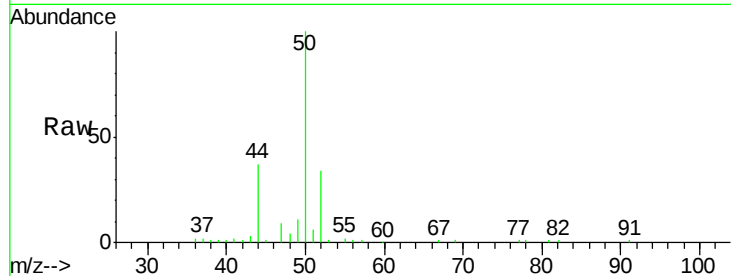
52 34.2 25.8 38.8

Manual Integrations

APPROVED

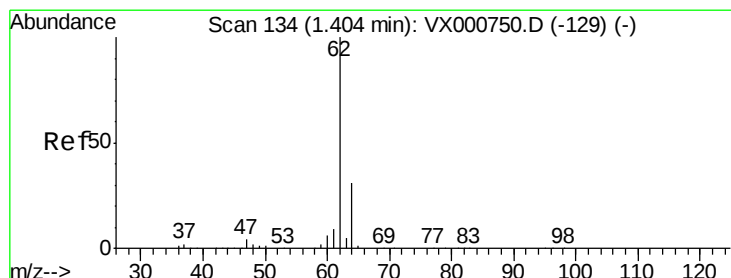
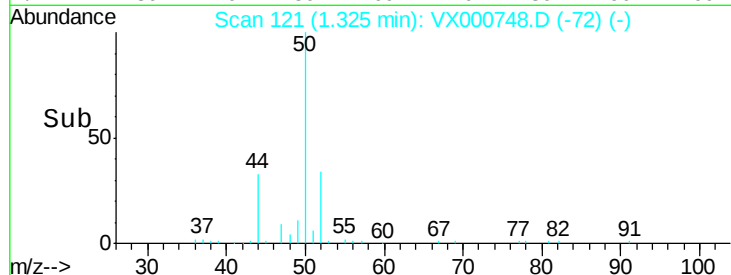
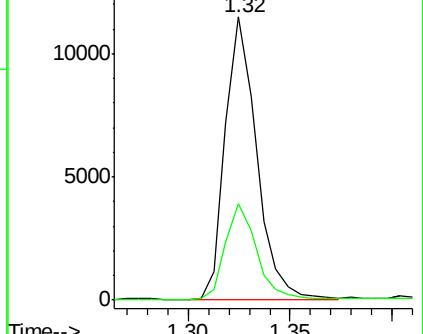
MMDadoda

4/11/2018 11:20:41 AM



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 4.85 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.00 min

Lab File: VX000748.D

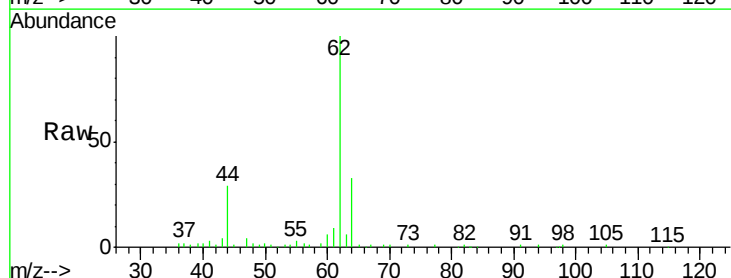
Acq: 10 Apr 2018 13:09

Tgt Ion: 62 Resp: 13932

Ion Ratio Lower Upper

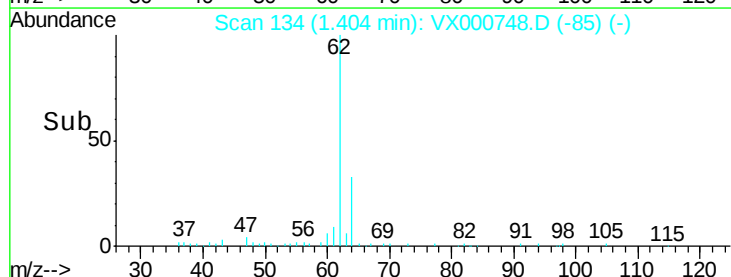
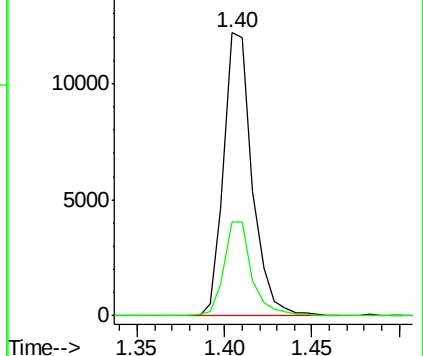
62 100

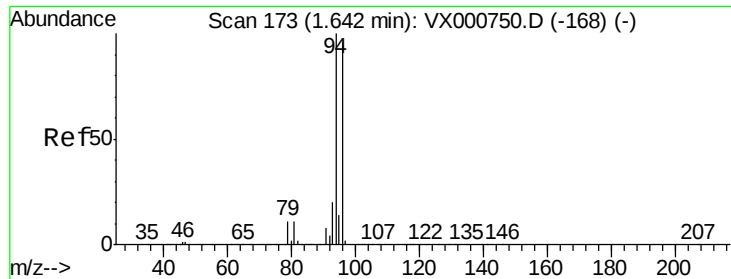
64 33.1 24.6 36.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 4.79 ug/l

RT: 1.64 min Scan# 172

Delta R.T. -0.01 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 5687

Ion Ratio Lower Upper

94 100

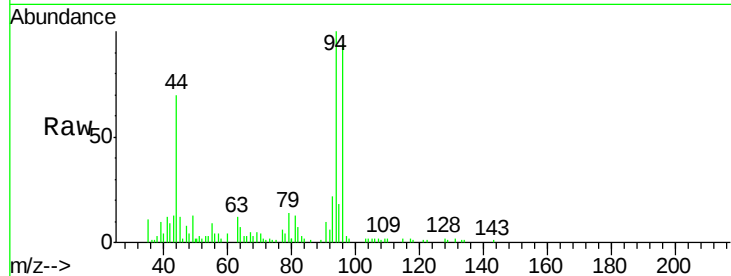
96 93.4 77.0 115.6

Manual Integrations

APPROVED

MMDadoda

4/11/2018 11:20:41 AM



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

6000

5000

4000

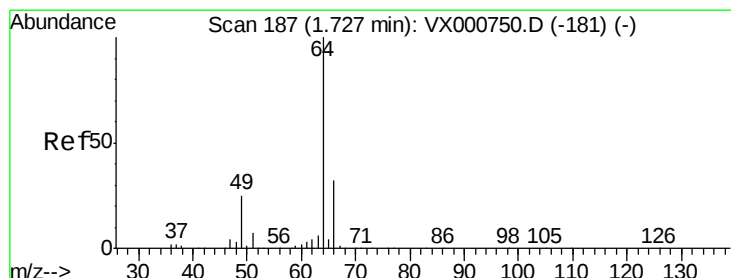
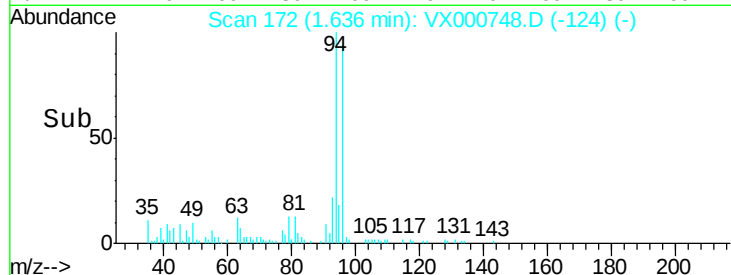
3000

2000

1000

0

Time-->



#6

Chloroethane

Concen: 5.64 ug/l

RT: 1.72 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX000748.D

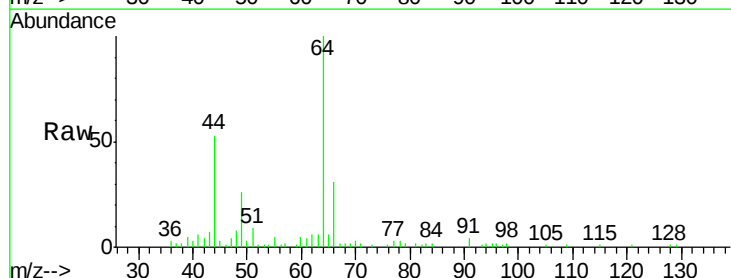
Acq: 10 Apr 2018 13:09

Tgt Ion: 64 Resp: 9389

Ion Ratio Lower Upper

64 100

66 32.4 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.72

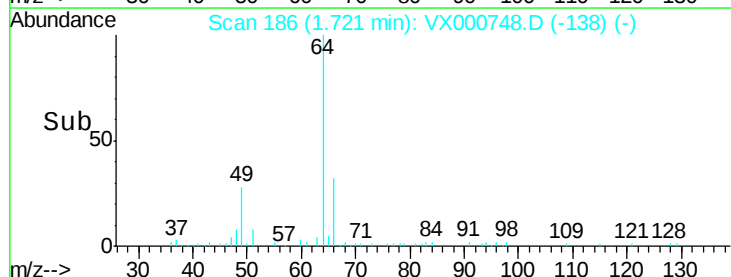
6000

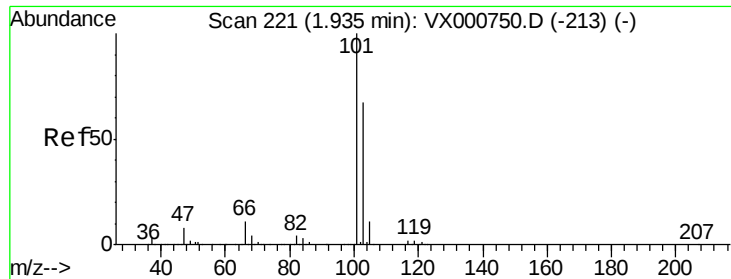
4000

2000

0

Time-->





#7

Trichlorofluoromethane

Concen: 5.08 ug/l

RT: 1.93 min Scan# 220

Delta R.T. -0.01 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion:101 Resp: 21872

Ion Ratio Lower Upper

101 100

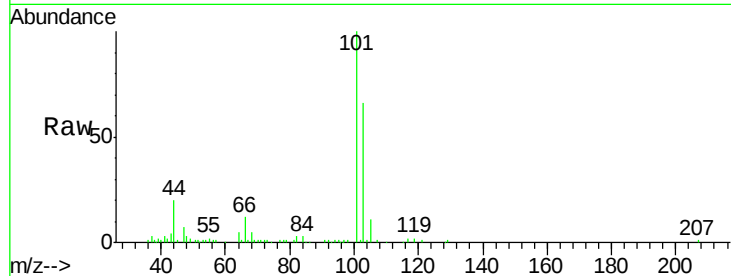
103 66.1 53.2 79.8

Manual Integrations

APPROVED

MMDadoda

4/11/2018 11:20:41 AM



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

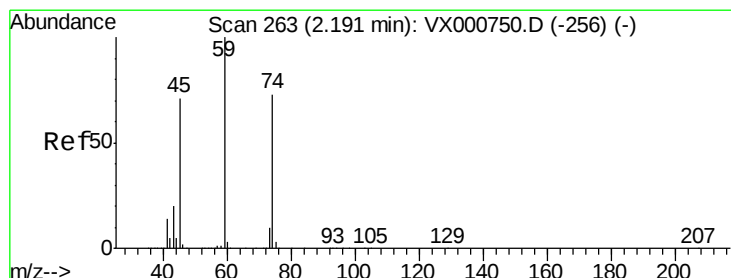
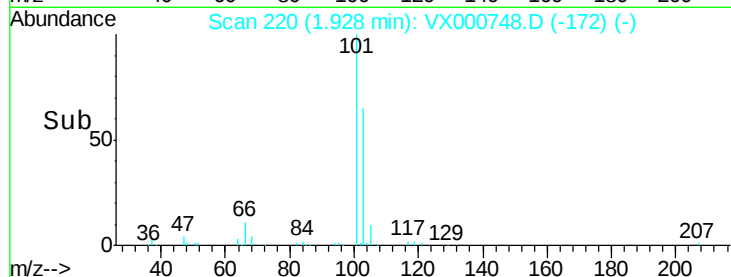
15000

10000

5000

0

Time-->



#8

Diethyl Ether

Concen: 5.26 ug/l

RT: 2.20 min Scan# 264

Delta R.T. 0.01 min

Lab File: VX000748.D

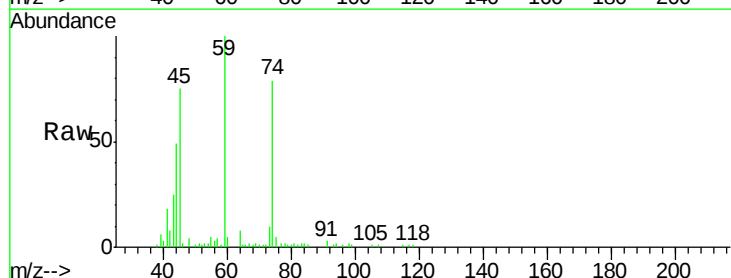
Acq: 10 Apr 2018 13:09

Tgt Ion: 74 Resp: 8223

Ion Ratio Lower Upper

74 100

45 97.0 48.6 145.8



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

6000

5000

4000

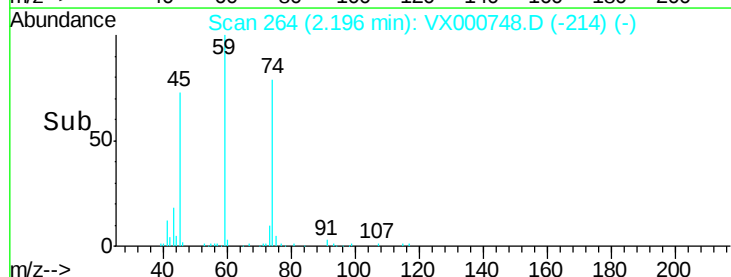
3000

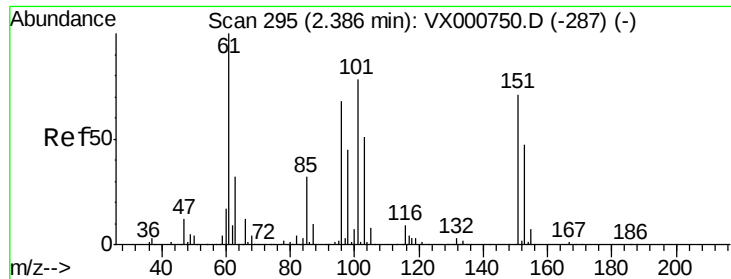
2000

1000

0

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.15 ug/l

RT: 2.39 min Scan# 295

Delta R.T. -0.00 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion:101 Resp: 12803

Ion Ratio Lower Upper

101 100

85 45.7 34.0 51.0

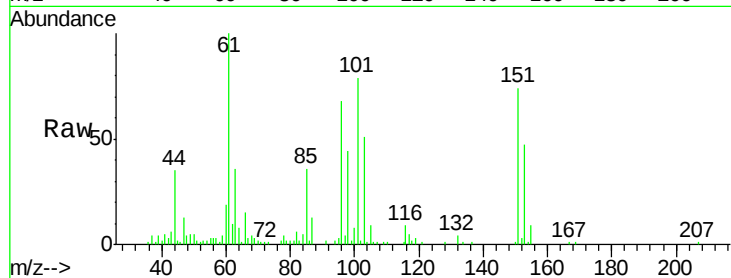
151 91.6 75.8 113.8

Manual Integrations

APPROVED

MMDadoda

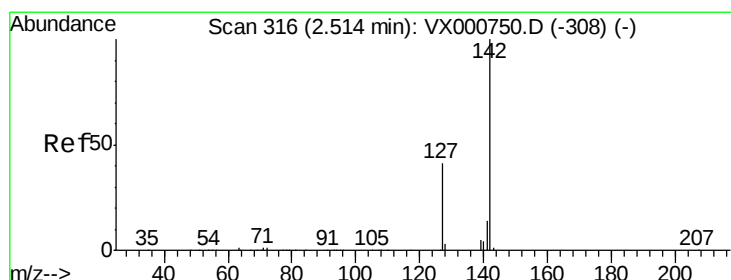
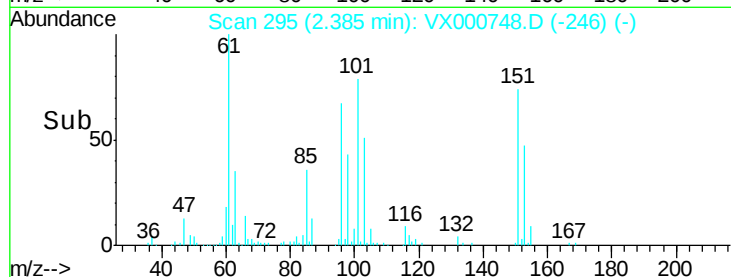
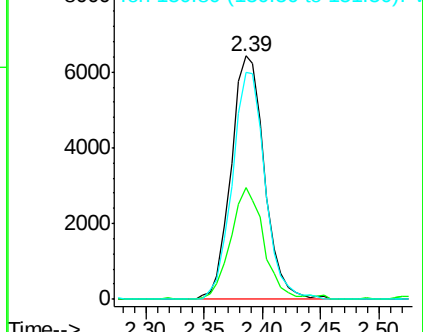
4/11/2018 11:20:41 AM



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 2.38 ug/l

RT: 2.51 min Scan# 316

Delta R.T. -0.00 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

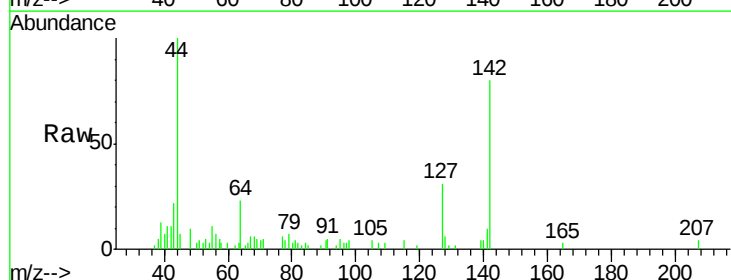
Tgt Ion:142 Resp: 4134

Ion Ratio Lower Upper

142 100

127 42.8 32.6 49.0

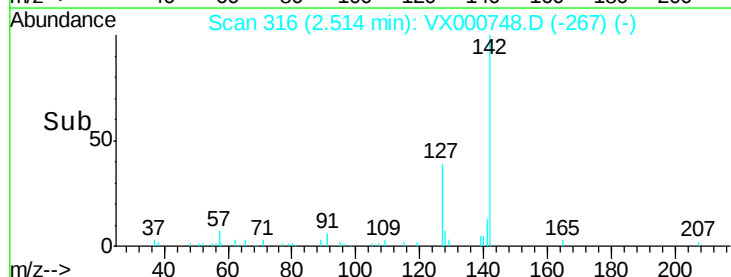
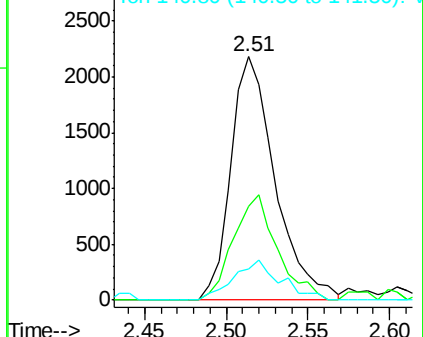
141 17.5 11.5 17.3#

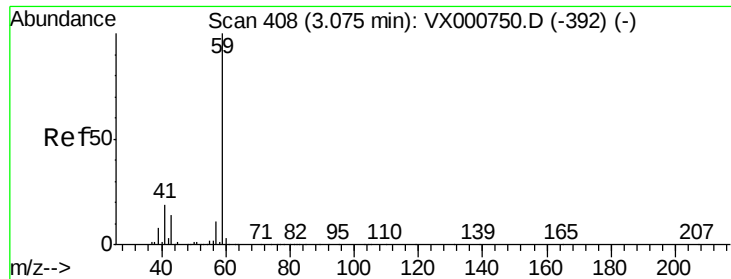


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





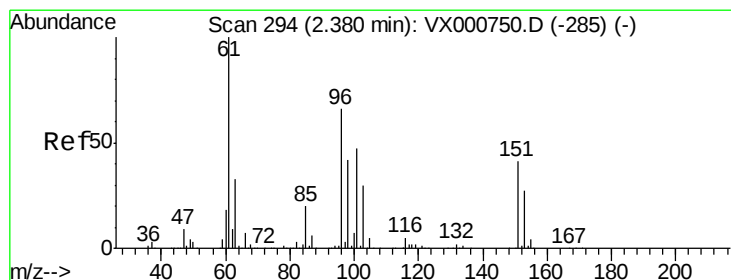
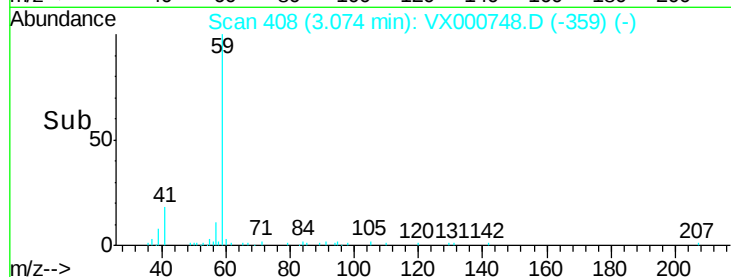
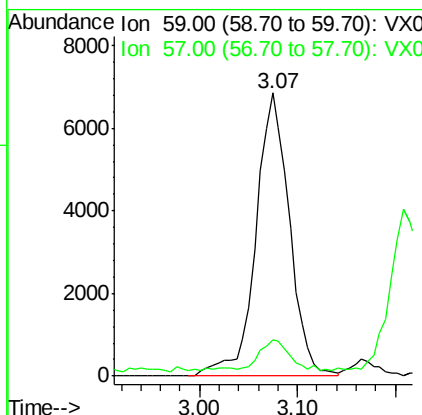
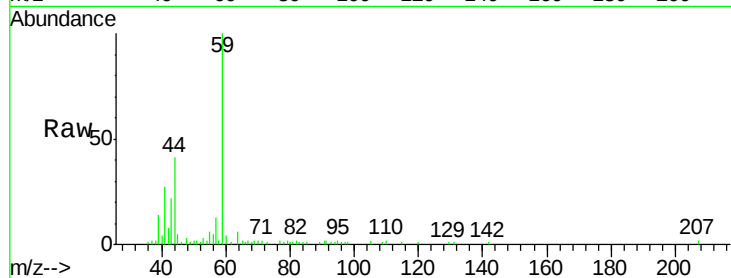
#11
Tert butyl alcohol
Concen: 27.75 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.00 min
Lab File: VX000748.D
Acq: 10 Apr 2018 13:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	59	Resp	16389
Ion Ratio	100	Lower	Upper
57	10.4	8.4	12.6

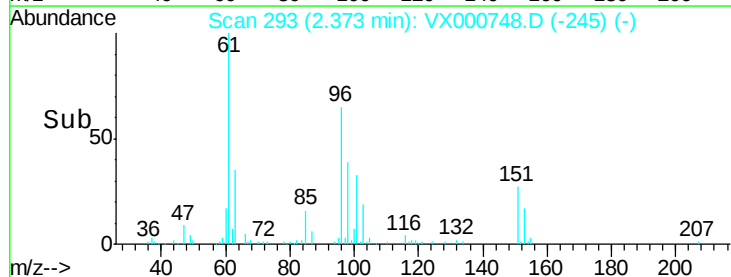
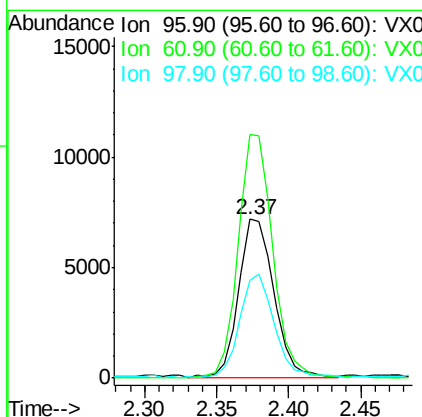
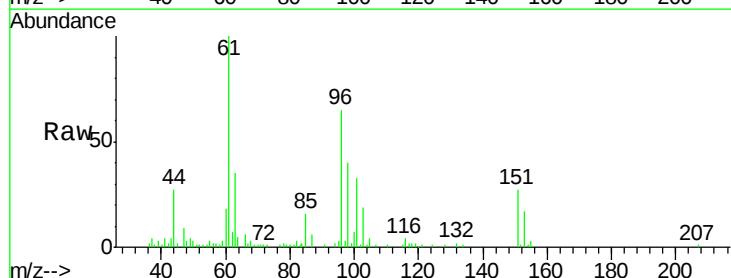
Manual Integrations
APPROVED

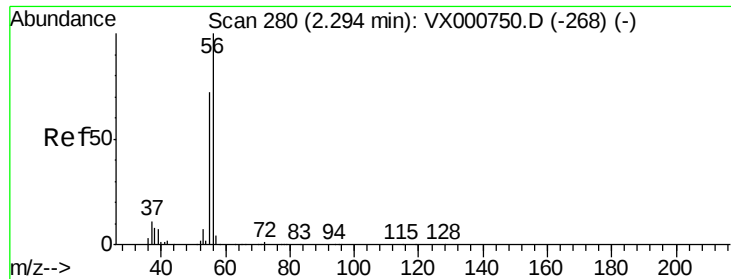
MMDadoda
4/11/2018 11:20:41 AM



#12
1,1-Dichloroethene
Concen: 5.22 ug/l
RT: 2.37 min Scan# 293
Delta R.T. -0.01 min
Lab File: VX000748.D
Acq: 10 Apr 2018 13:09

Tgt Ion	96	Resp	12365
Ion Ratio	100	Lower	Upper
61	153.2	120.5	180.7
98	60.4	50.9	76.3





#13

Acrolein

Concen: 23.13 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 6556

Ion Ratio Lower Upper

56 100

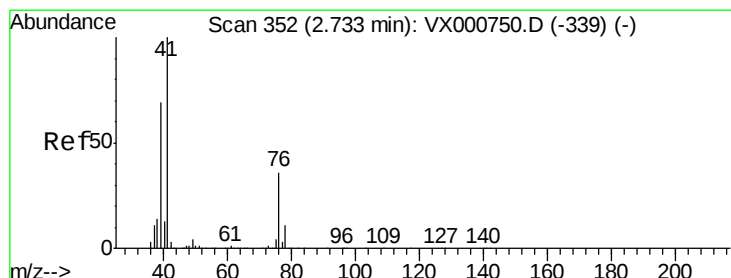
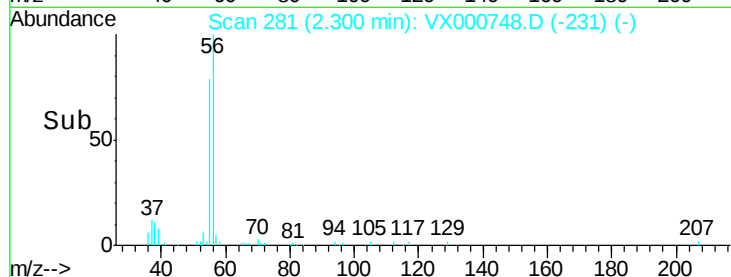
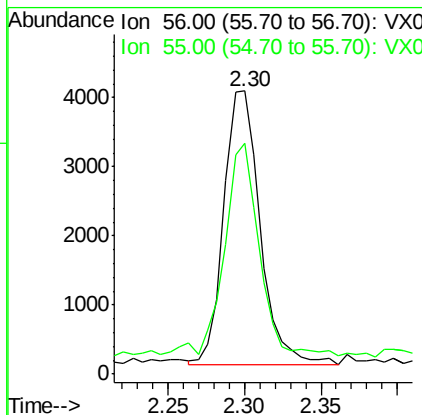
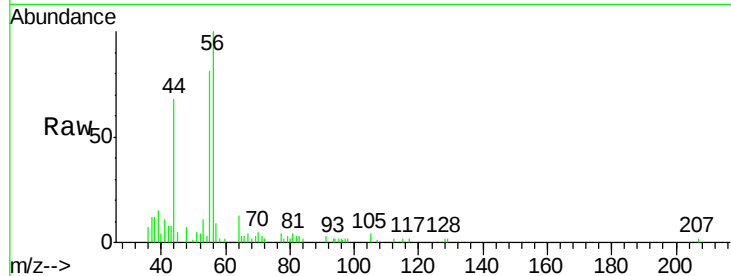
55 79.9 58.7 88.1

Manual Integrations

APPROVED

MMDadoda

4/11/2018 11:20:41 AM



#14

Allyl chloride

Concen: 5.07 ug/l

RT: 2.73 min Scan# 352

Delta R.T. -0.00 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

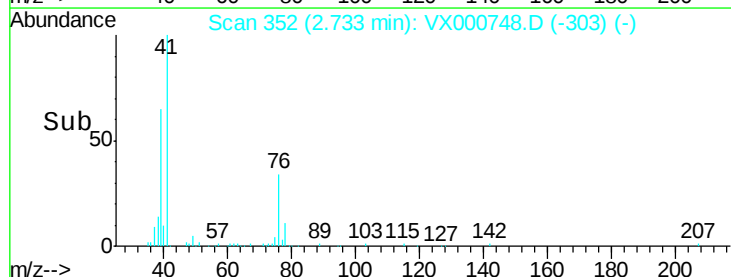
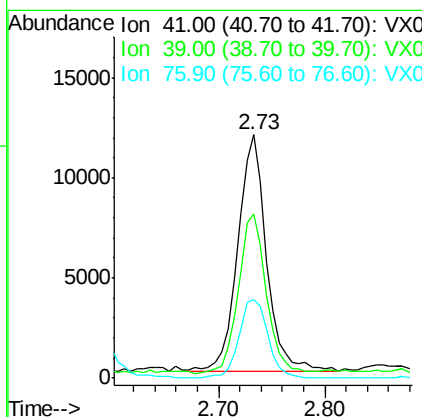
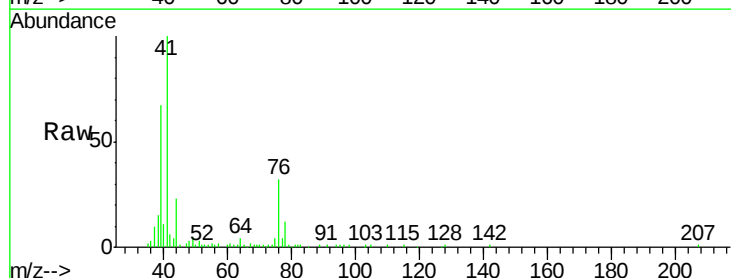
Tgt Ion: 41 Resp: 22235

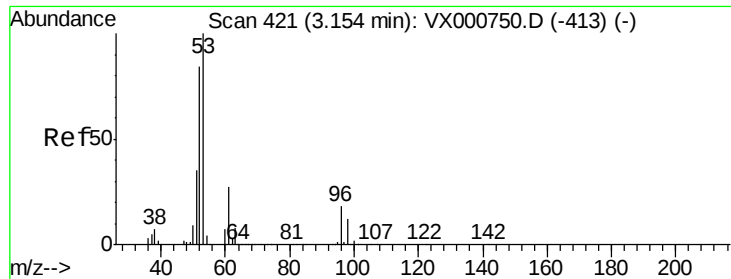
Ion Ratio Lower Upper

41 100

39 66.4 51.5 77.3

76 33.7 26.5 39.7





#15

Acrylonitrile

Concen: 24.91 ug/l

RT: 3.15 min Scan# 421

Delta R.T. -0.00 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

Instrument :

MSVOA_X

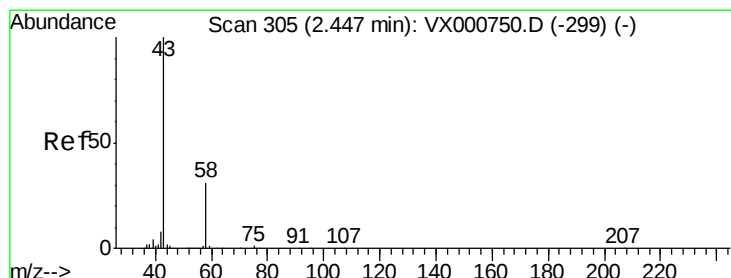
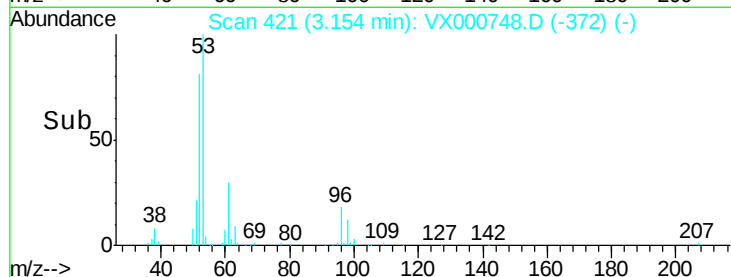
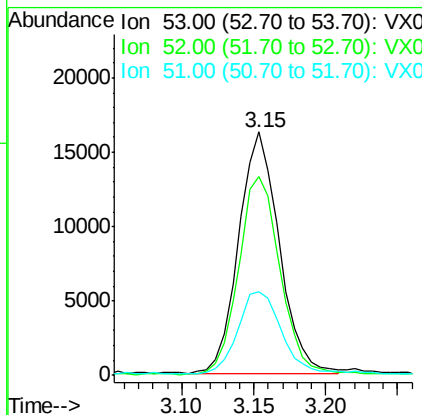
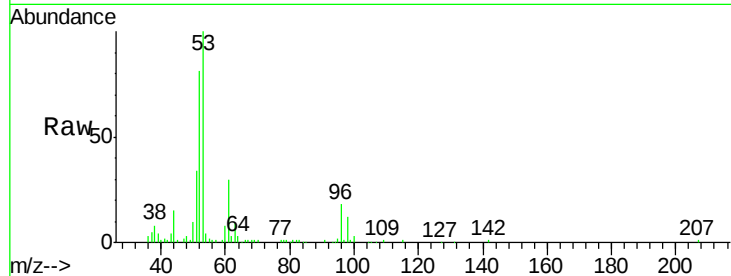
ClientSampleId :

VSTDIC005

Tot Ion:	53	Resp:	31556
Ion	Ratio	Lower	Upper
53	100		
52	84.5	66.5	99.7
51	37.7	28.8	43.2

Manual Integrations
APPROVED

MMDadoda
4/11/2018 11:20:41 AM



#16

Acetone

Concen: 25.17 ug/l

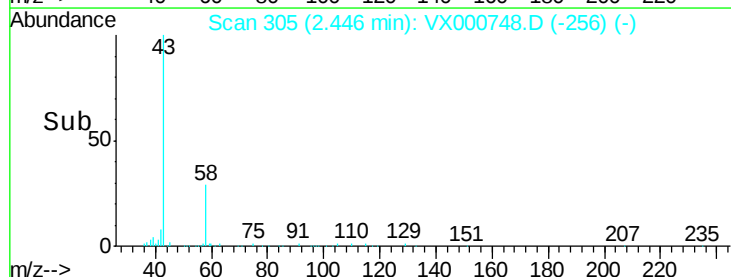
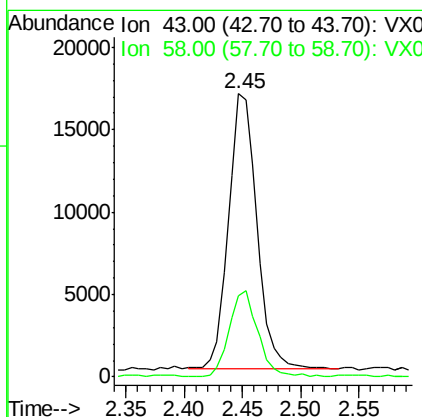
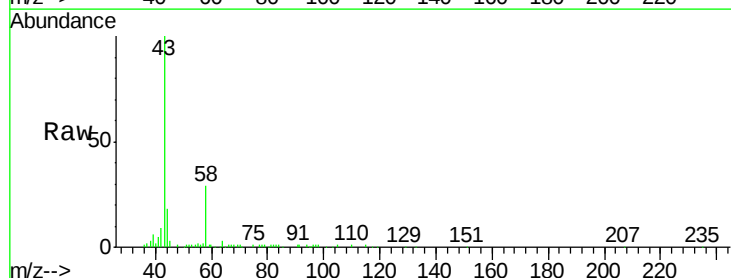
RT: 2.45 min Scan# 305

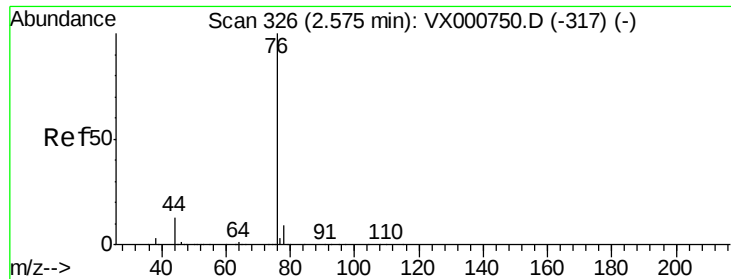
Delta R.T. -0.00 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

Tgt Ion:	43	Resp:	28438
Ion	Ratio	Lower	Upper
43	100		
58	29.6	24.6	37.0





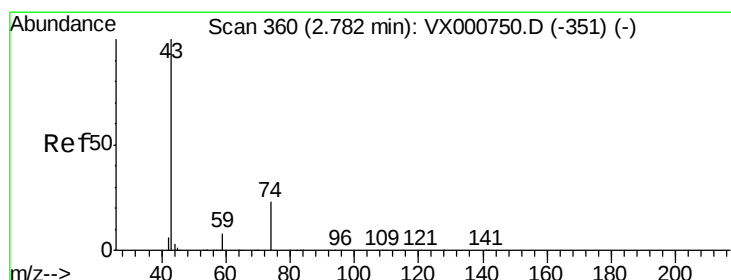
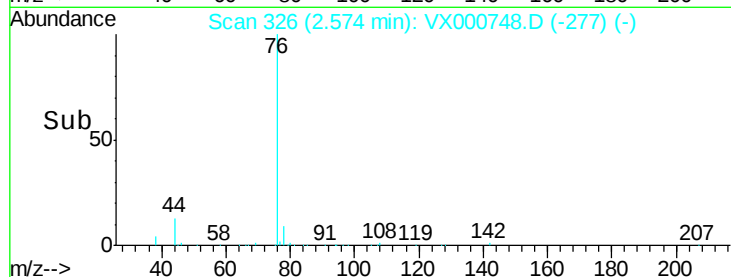
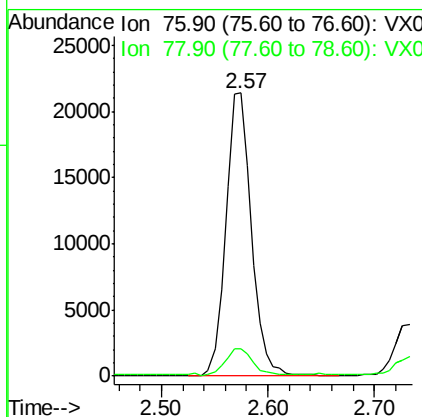
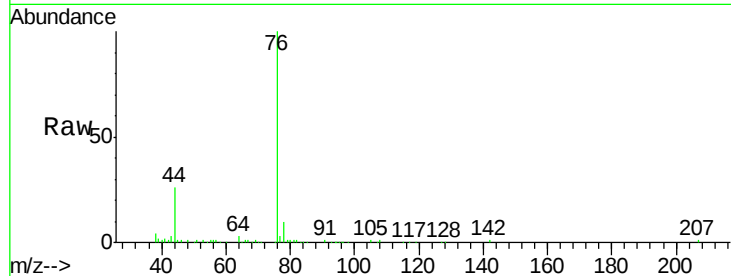
#17
Carbon Disulfide
Concen: 5.12 ug/l
RT: 2.57 min Scan# 326
Delta R.T. -0.00 min
Lab File: VX000748.D
Acq: 10 Apr 2018 13:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.4	11.2

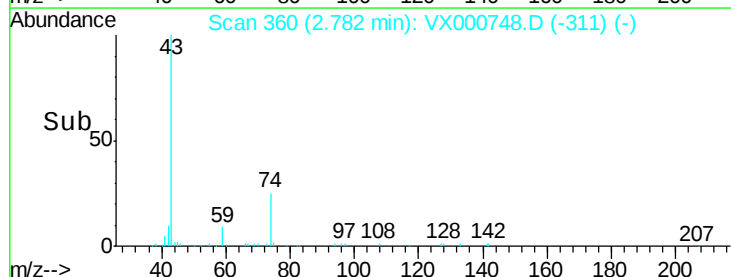
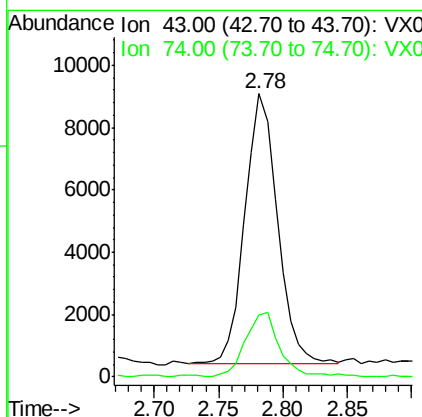
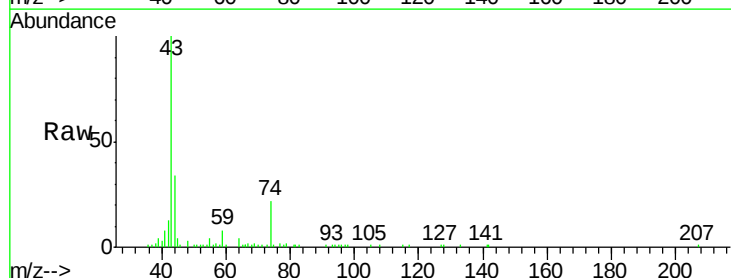
Manual Integrations
APPROVED

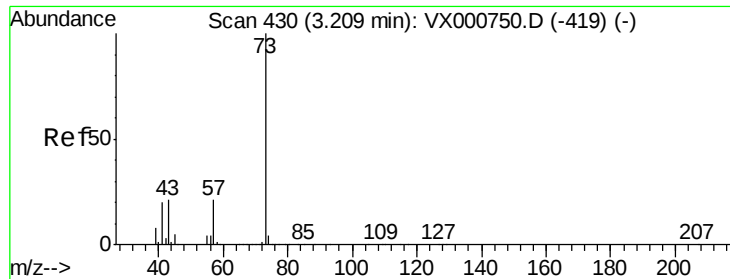
MMDadoda
4/11/2018 11:20:41 AM



#18
Methyl Acetate
Concen: 5.10 ug/l
RT: 2.78 min Scan# 360
Delta R.T. -0.00 min
Lab File: VX000748.D
Acq: 10 Apr 2018 13:09

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.9	19.1	28.7





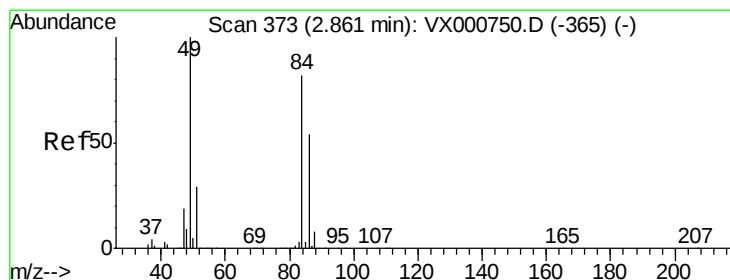
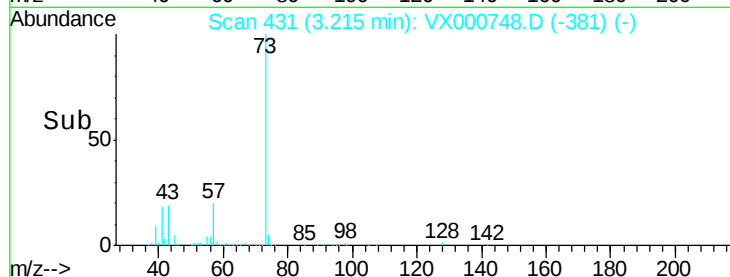
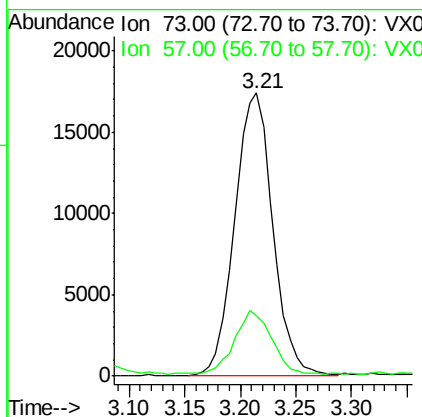
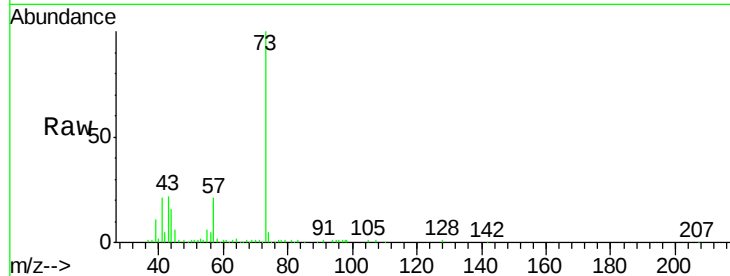
#19
Methvl tert-butvl Ether
Concen: 5.17 ug/l
RT: 3.21 min Scan# 431
Delta R.T. 0.01 min
Lab File: VX000748.D
Acq: 10 Apr 2018 13:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
73	100		
57	20.6	16.9	25.3

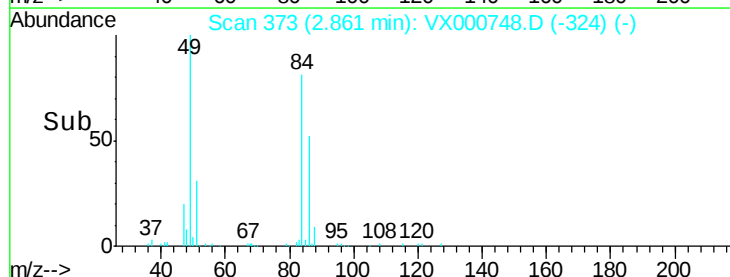
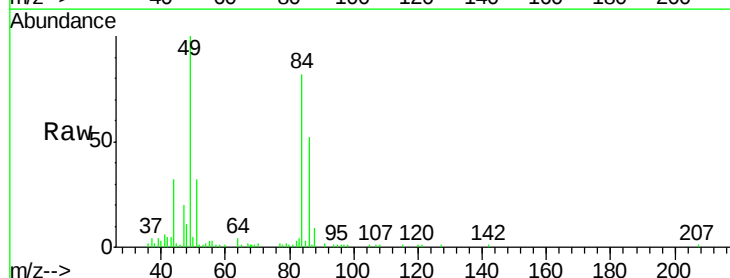
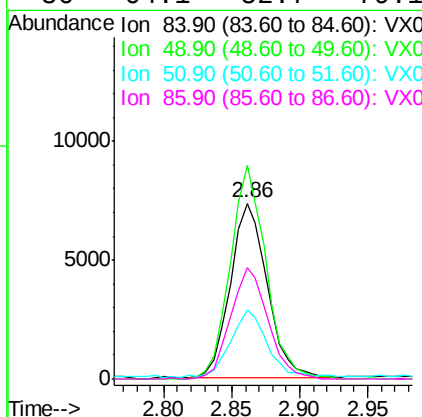
Manual Integrations
APPROVED

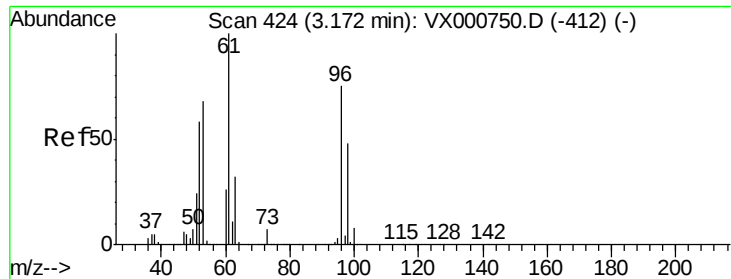
MMDadoda
4/11/2018 11:20:41 AM



#20
Methylene Chloride
Concen: 5.44 ug/l
RT: 2.86 min Scan# 373
Delta R.T. -0.00 min
Lab File: VX000748.D
Acq: 10 Apr 2018 13:09

Tgt Ion	Ratio	Lower	Upper
84	100		
49	122.8	98.1	147.1
51	37.8	28.9	43.3
86	64.1	52.7	79.1





#21

trans-1,2-Dichloroethene

Concen: 5.20 ug/l

RT: 3.17 min Scan# 423

Delta R.T. -0.01 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

Instrument :

MSVOA_X

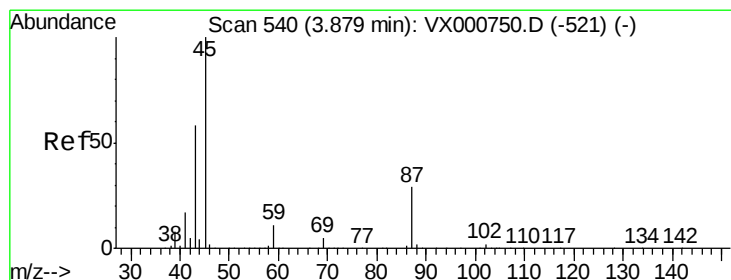
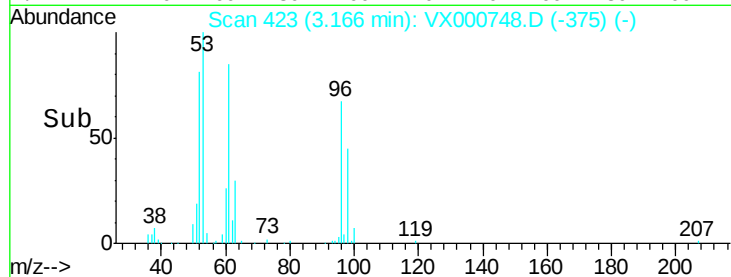
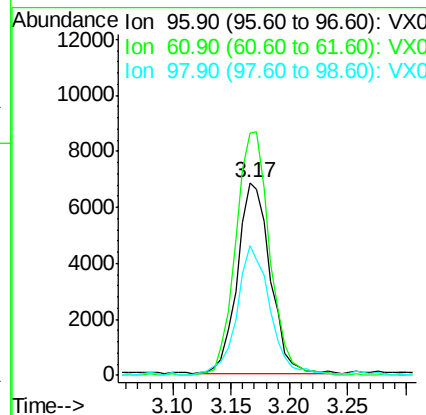
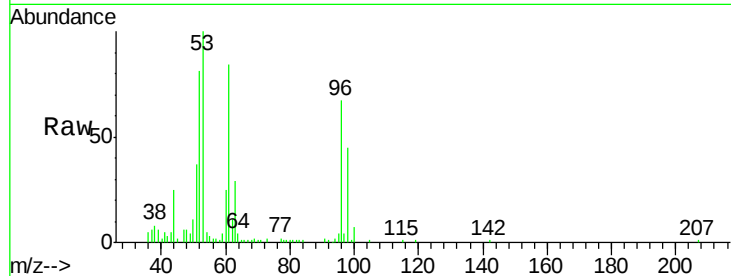
ClientSampleId :

VSTDIC005

Tot Ion:	96	Resp:	13369
Ion	Ratio	Lower	Upper
96	100		
61	126.9	106.2	159.2
98	68.2	51.2	76.8

Manual Integrations
APPROVED

MMDadoda
4/11/2018 11:20:41 AM



#22

Diisopropyl ether

Concen: 5.16 ug/l

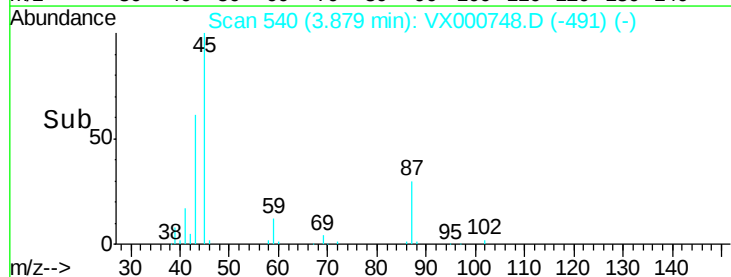
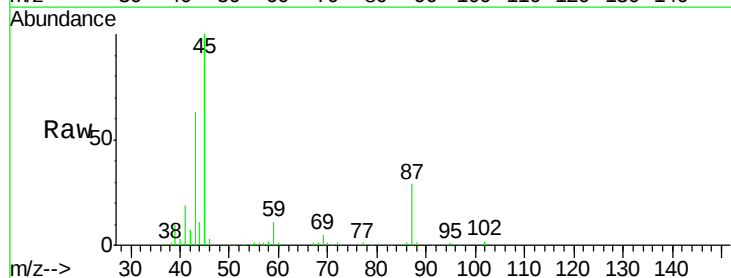
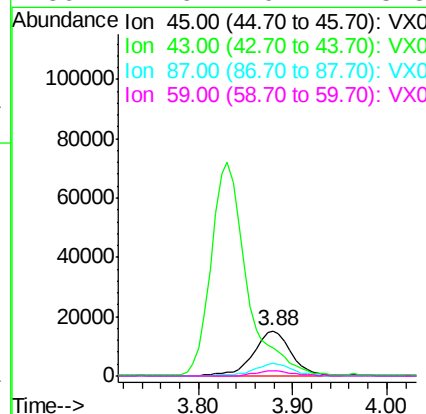
RT: 3.88 min Scan# 540

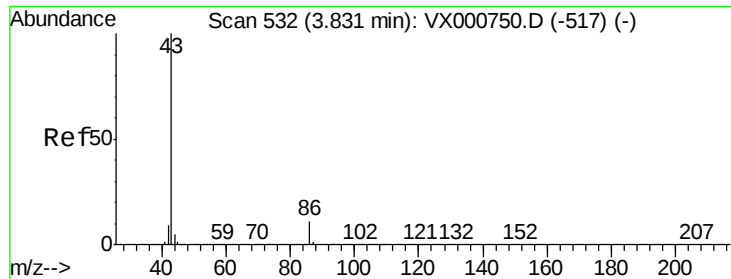
Delta R.T. -0.00 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

Tgt Ion:	45	Resp:	41867
Ion	Ratio	Lower	Upper
45	100		
43	60.3	46.6	69.8
87	29.5	22.9	34.3
59	11.6	9.2	13.8





#23

Vinyl Acetate

Concen: 26.35 ug/l

RT: 3.83 min Scan# 532

Delta R.T. -0.00 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 187204

Ion Ratio Lower Upper

43 100

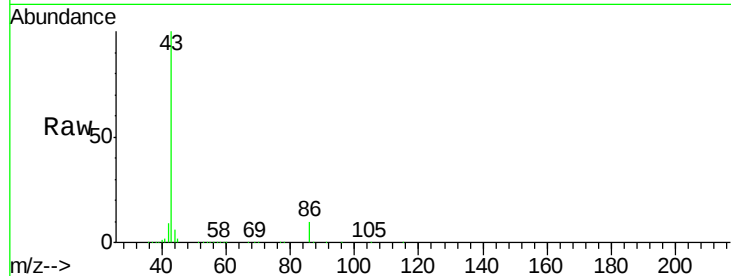
86 10.2 8.6 12.8

Manual Integrations

APPROVED

MMDadoda

4/11/2018 11:20:41 AM



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0

3.83

80000

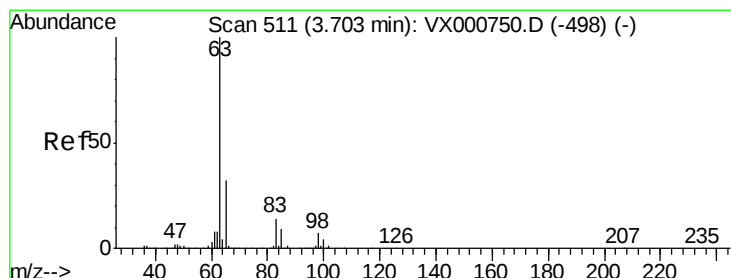
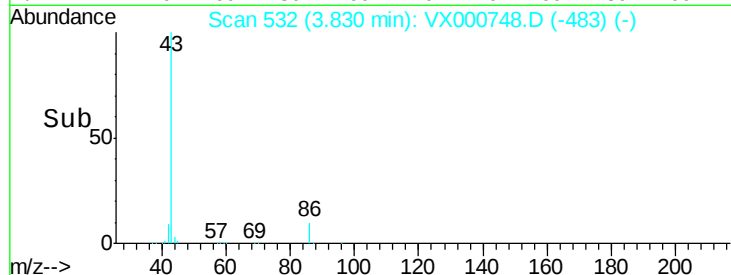
60000

40000

20000

0

Time-->



#24

1,1-Dichloroethane

Concen: 5.26 ug/l

RT: 3.70 min Scan# 511

Delta R.T. -0.00 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

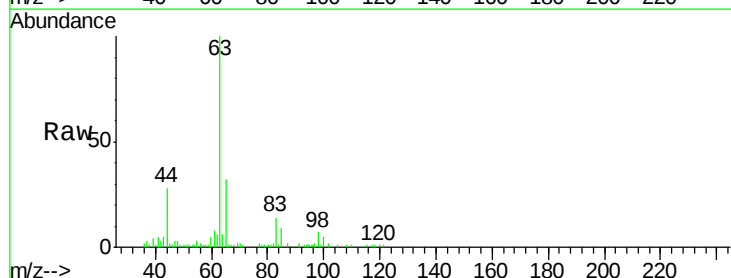
Tgt Ion: 63 Resp: 23643

Ion Ratio Lower Upper

63 100

98 7.1 3.3 9.9

100 4.7 2.1 6.3



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0

12000

10000

8000

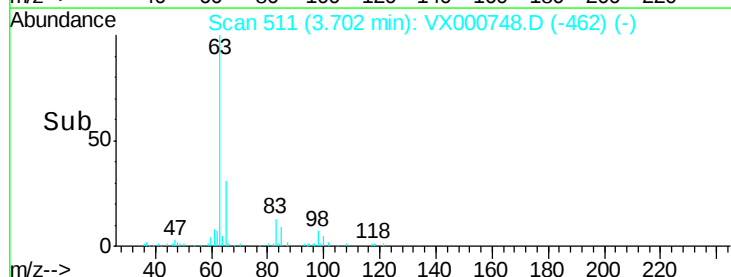
6000

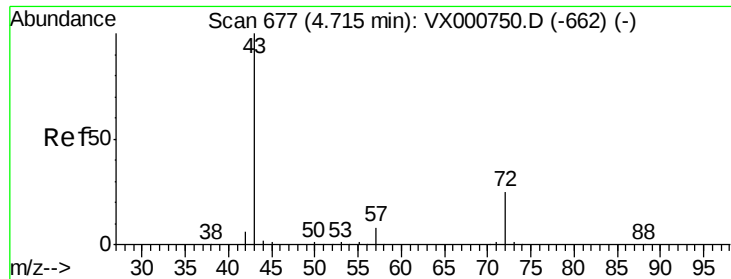
4000

2000

0

Time-->





#25

2-Butanone

Concen: 25.23 ug/l

RT: 4.71 min Scan# 677

Delta R.T. -0.00 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 48307

Ion Ratio Lower Upper

43 100

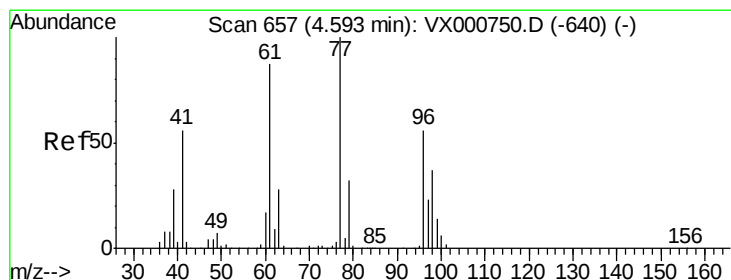
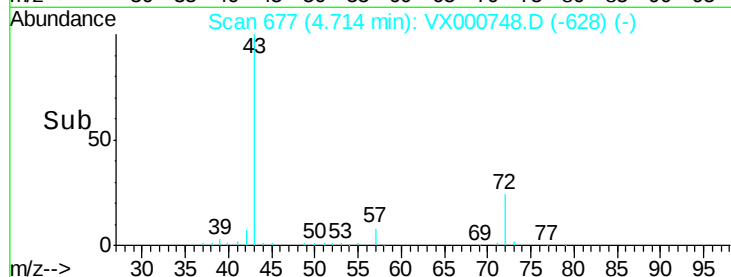
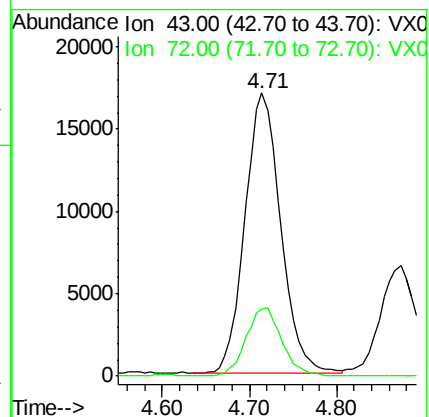
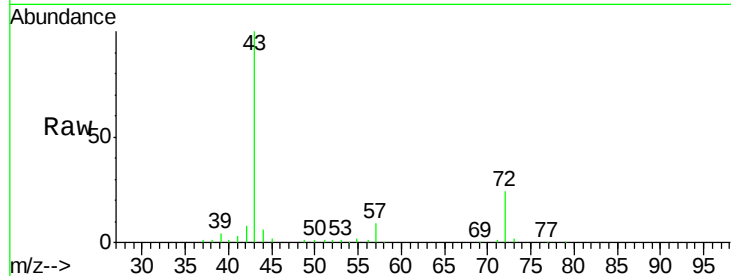
72 24.1 20.3 30.5

Manual Integrations

APPROVED

MMDadoda

4/11/2018 11:20:41 AM



#26

2,2-Dichloropropane

Concen: 5.18 ug/l

RT: 4.59 min Scan# 657

Delta R.T. -0.00 min

Lab File: VX000748.D

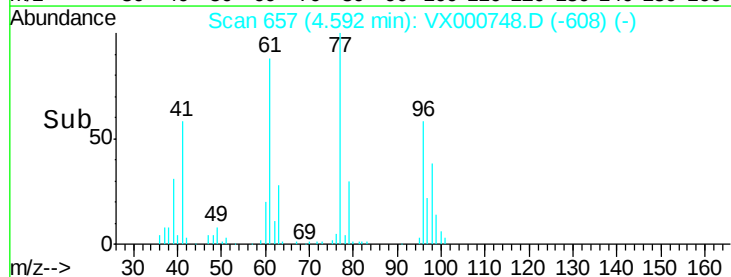
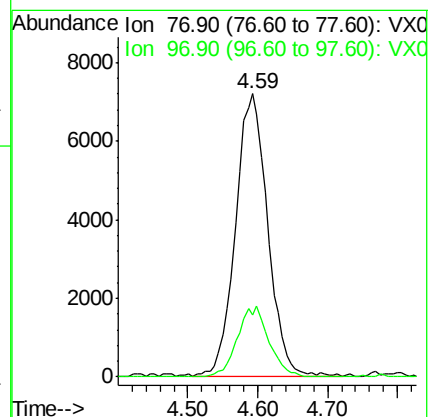
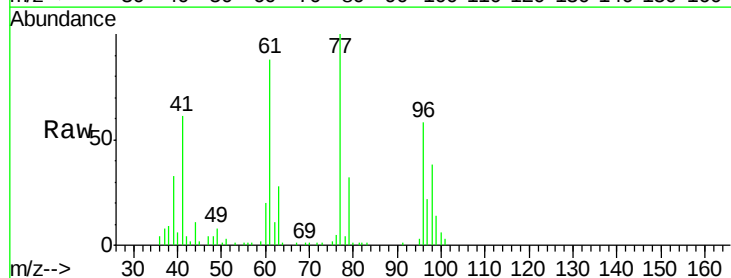
Acq: 10 Apr 2018 13:09

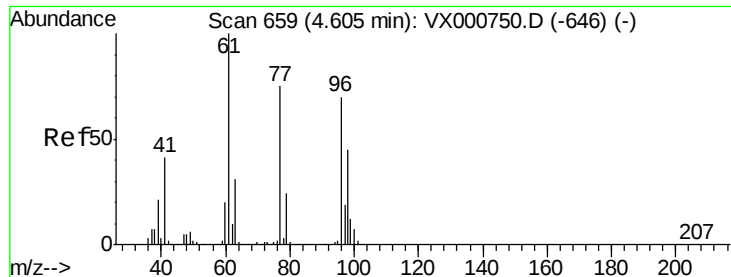
Tgt Ion: 77 Resp: 23192

Ion Ratio Lower Upper

77 100

97 24.1 11.5 34.4





#27

cis-1,2-Dichloroethene

Concen: 5.10 ug/l

RT: 4.60 min Scan# 659

Delta R.T. -0.00 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

Instrument :

MSVOA_X

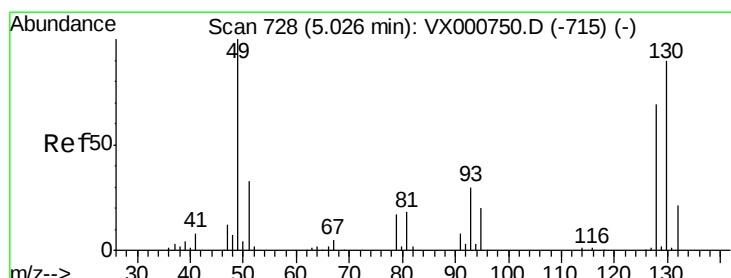
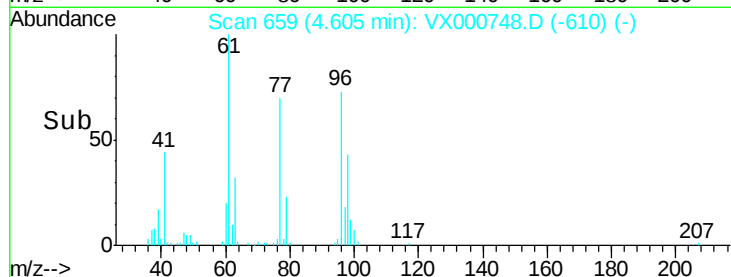
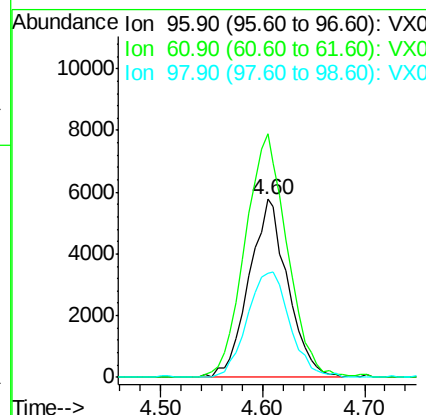
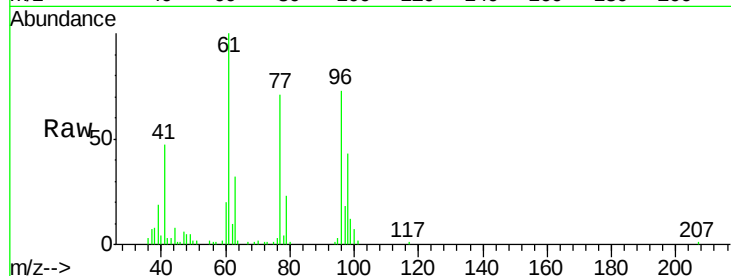
ClientSampleId :

VSTDIC005

Tot Ion:	96	Resp:	15250
Ion	Ratio	Lower	Upper
96	100		
61	148.0	0.0	292.4
98	64.7	0.0	130.2

Manual Integrations
APPROVED

MMDadoda
4/11/2018 11:20:41 AM



#28

Bromochloromethane

Concen: 5.93 ug/l

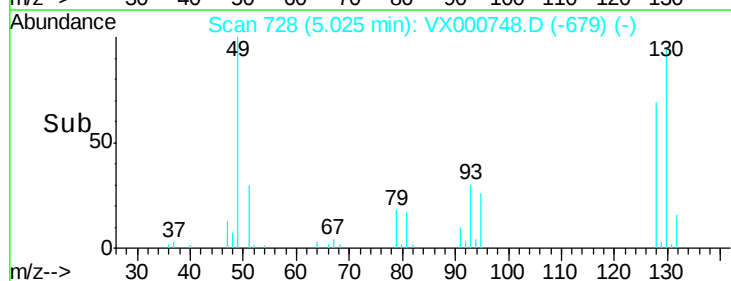
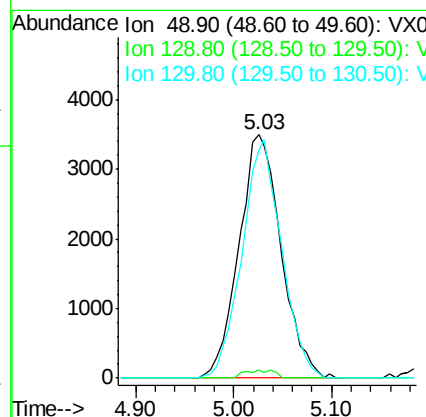
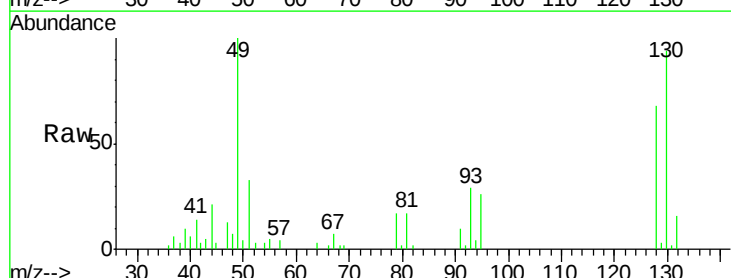
RT: 5.03 min Scan# 728

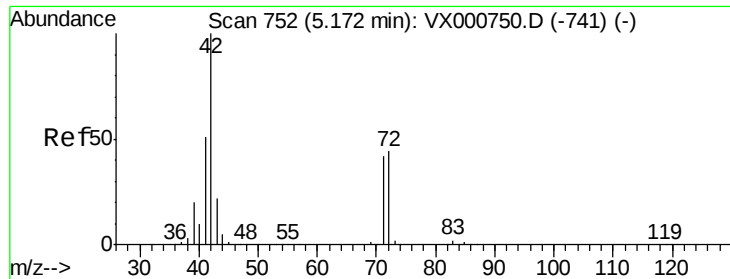
Delta R.T. -0.00 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

Tgt Ion:	49	Resp:	10431
Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	5.2
130	92.0	72.6	109.0





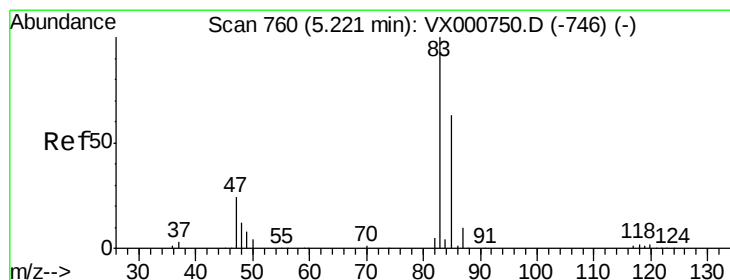
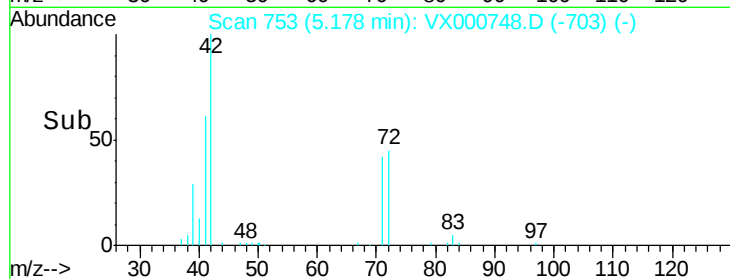
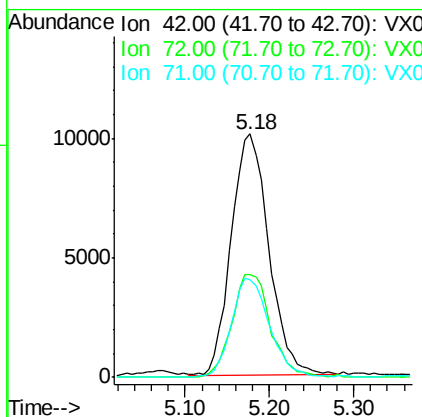
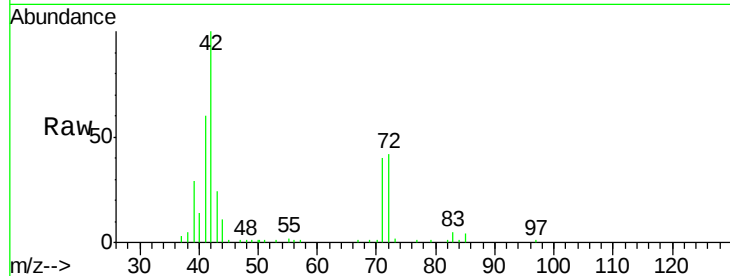
#29
Tetrahydrofuran
Concen: 25.43 ug/l
RT: 5.18 min Scan# 753
Delta R.T. 0.01 min
Lab File: VX000748.D
Acq: 10 Apr 2018 13:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.6	35.1	52.7
71	41.7	32.8	49.2

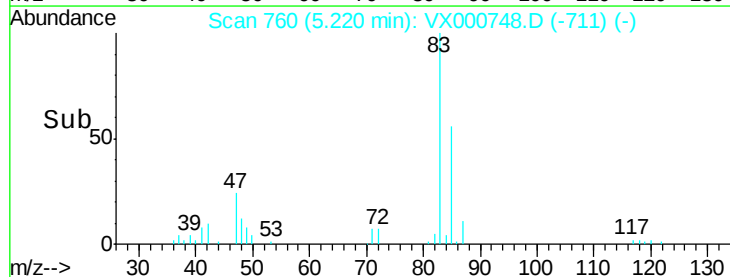
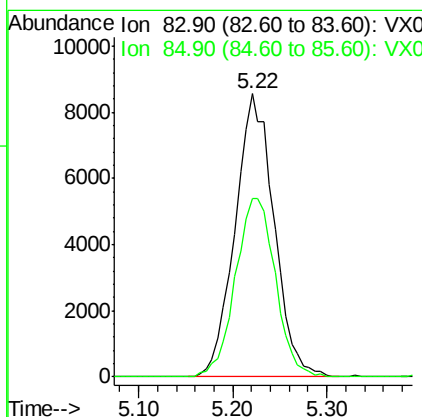
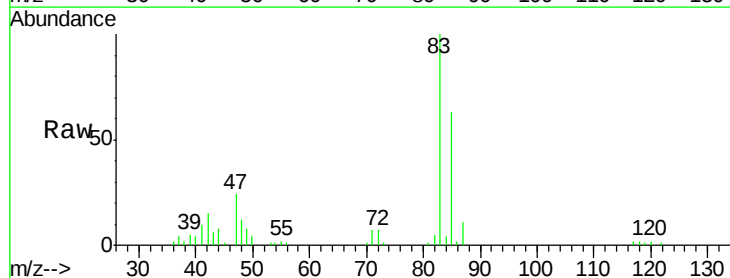
Manual Integrations
APPROVED

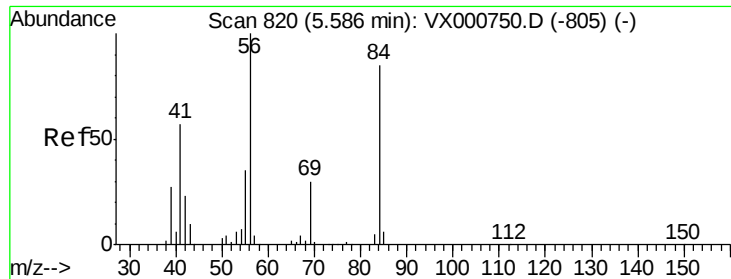
MMDadoda
4/11/2018 11:20:41 AM



#30
Chloroform
Concen: 5.06 ug/l
RT: 5.22 min Scan# 760
Delta R.T. -0.00 min
Lab File: VX000748.D
Acq: 10 Apr 2018 13:09

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.1	50.7	76.1





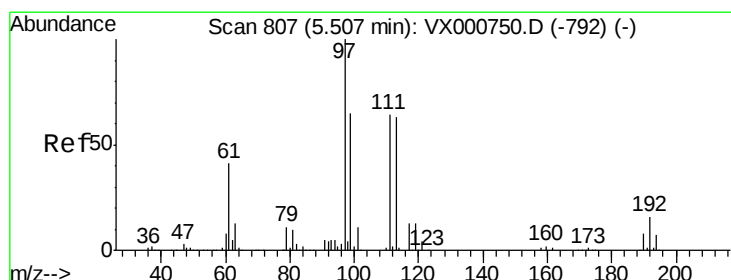
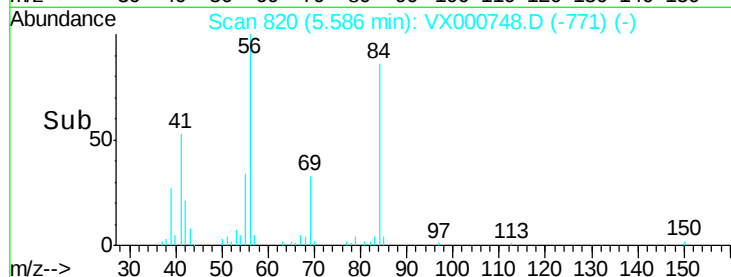
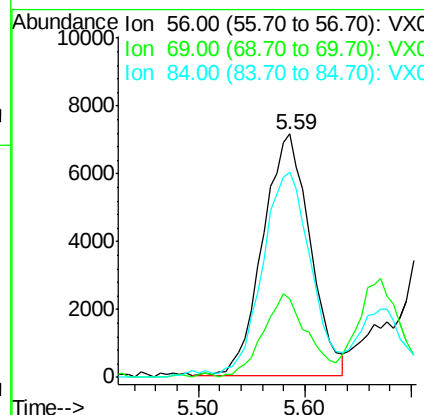
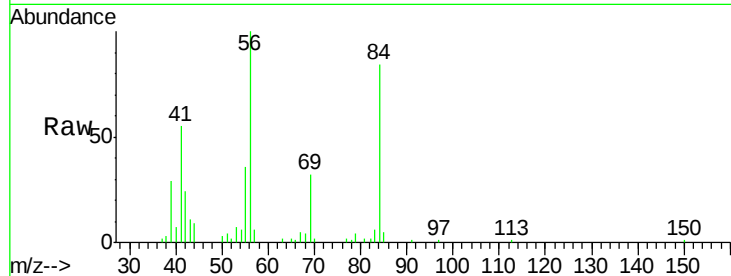
#31
Cyclohexane
Concen: 5.18 ug/l
RT: 5.59 min Scan# 820
Delta R.T. -0.00 min
Lab File: VX000748.D
Acq: 10 Apr 2018 13:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.7	24.2	36.4
84	82.5	67.6	101.4

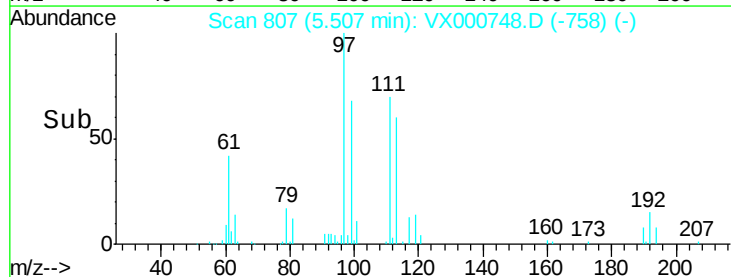
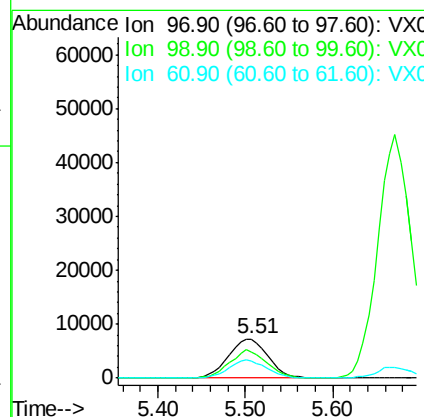
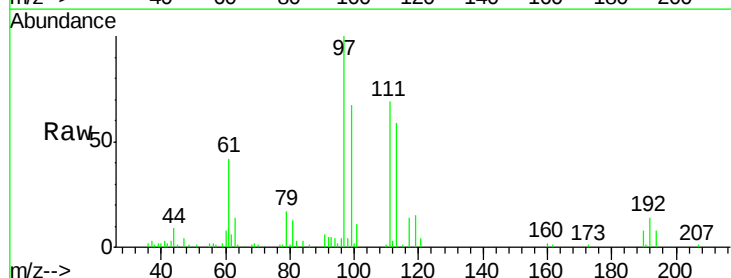
Manual Integrations
APPROVED

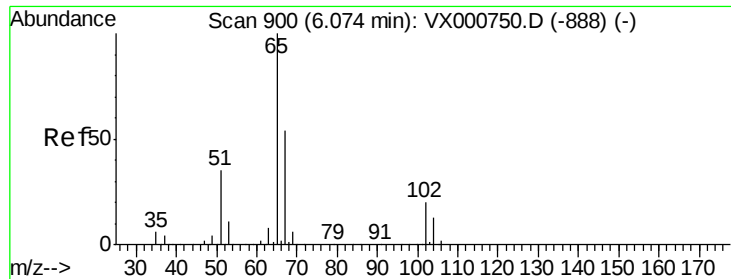
MMDadoda
4/11/2018 11:20:41 AM



#32
1,1,1-Trichloroethane
Concen: 4.94 ug/l
RT: 5.51 min Scan# 807
Delta R.T. -0.00 min
Lab File: VX000748.D
Acq: 10 Apr 2018 13:09

Tgt Ion	Ratio	Lower	Upper
97	100		
99	66.9	51.4	77.0
61	44.1	33.7	50.5





#33

1,2-Dichloroethane-d4

Concen: 5.45 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 65 Resp: 17245

Ion Ratio Lower Upper

65 100

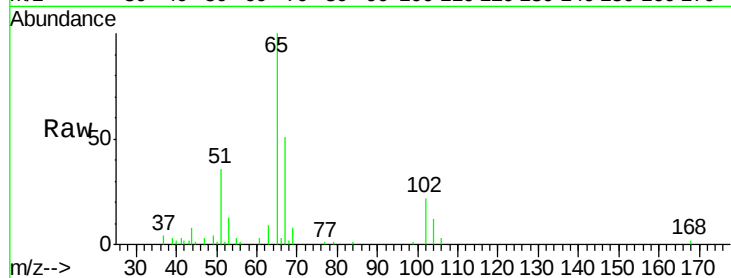
67 51.4 0.0 103.8

Manual Integrations

APPROVED

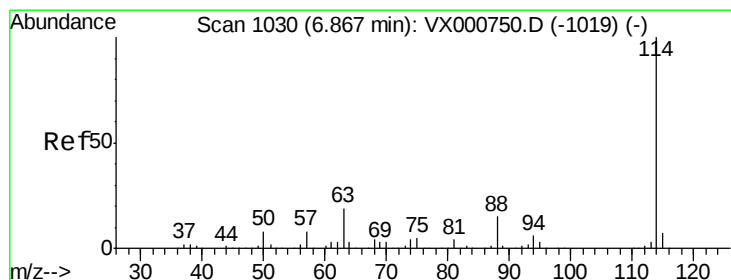
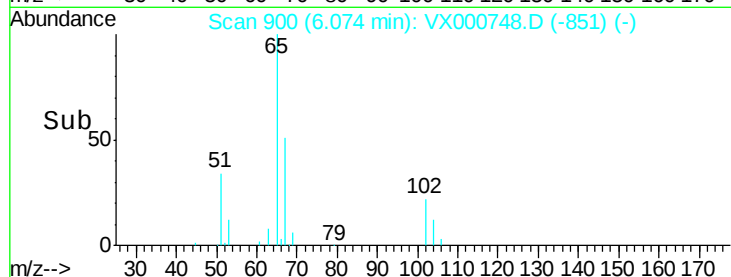
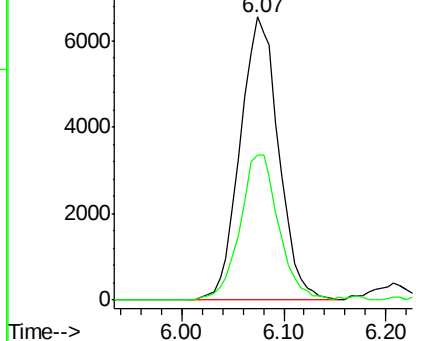
MMDadoda

4/11/2018 11:20:41 AM



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

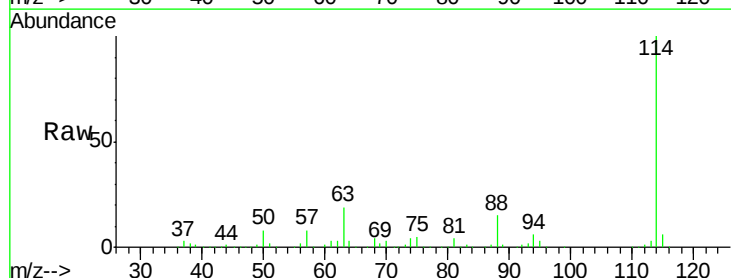
Tgt Ion: 114 Resp: 351422

Ion Ratio Lower Upper

114 100

63 19.3 0.0 38.4

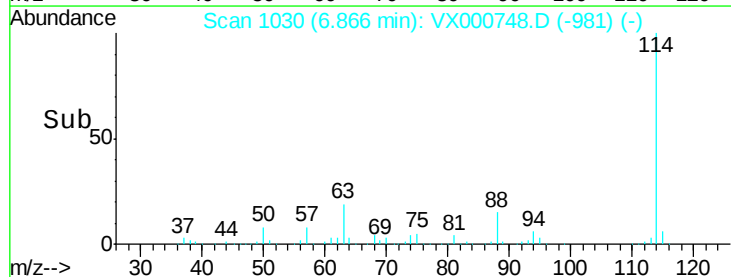
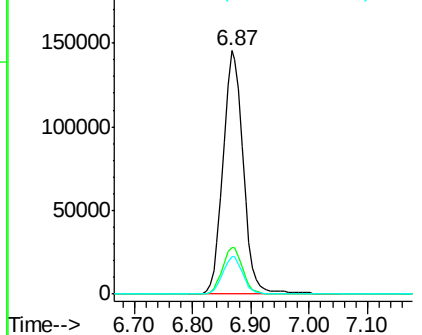
88 15.3 0.0 31.0

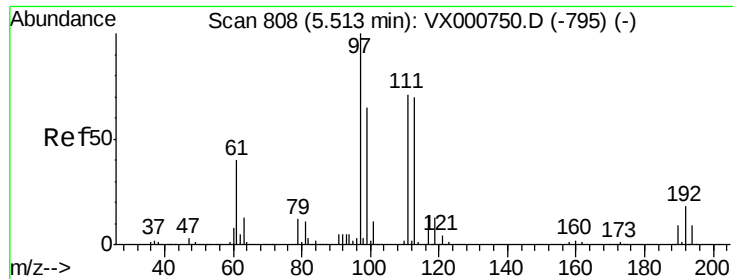


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





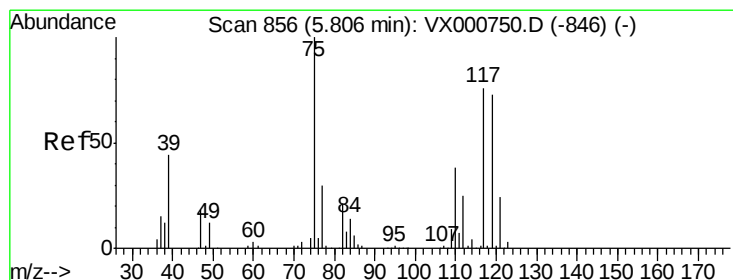
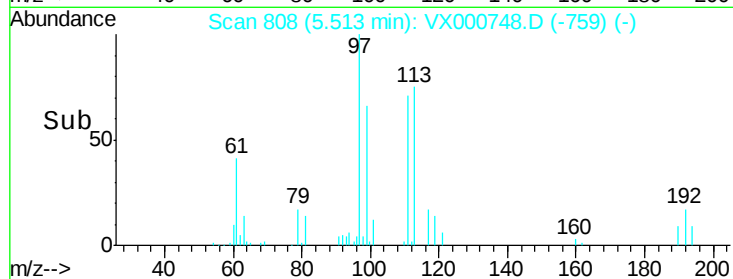
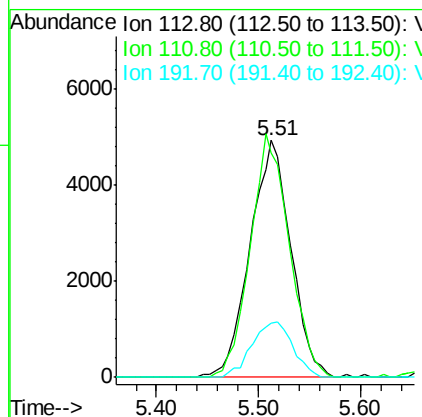
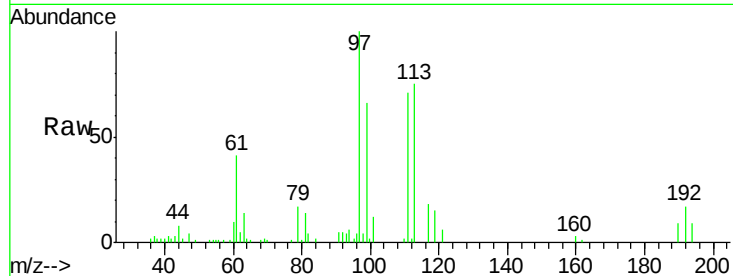
#35
 Dibromofluoromethane
 Concen: 5.05 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. -0.00 min
 Lab File: VX000748.D
 Acq: 10 Apr 2018 13:09

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
113	100	13688		
111	97.9	81.5	122.3	
192	23.6	20.4	30.6	

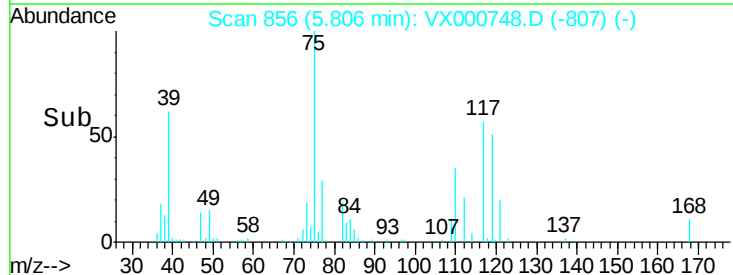
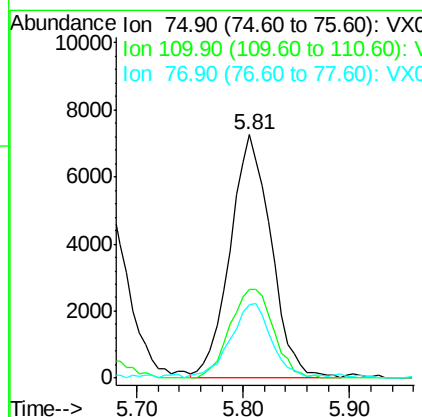
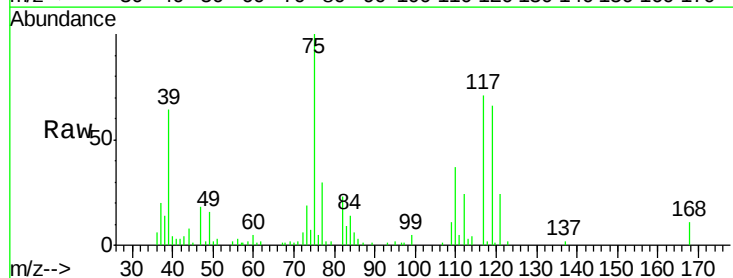
Manual Integrations
 APPROVED

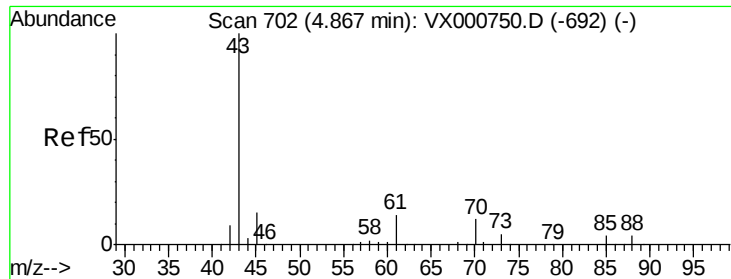
MMDadoda
 4/11/2018 11:20:41 AM



#36
 1,1-Dichloropropene
 Concen: 5.24 ug/l
 RT: 5.81 min Scan# 856
 Delta R.T. -0.00 min
 Lab File: VX000748.D
 Acq: 10 Apr 2018 13:09

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	19605		
110	39.0	19.2	57.6	
77	31.0	25.4	38.2	





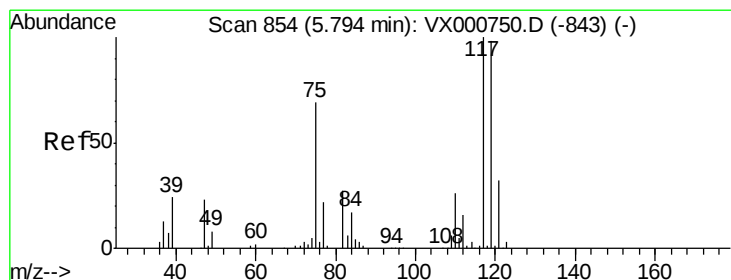
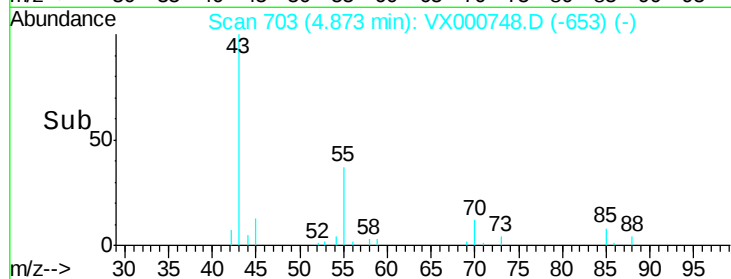
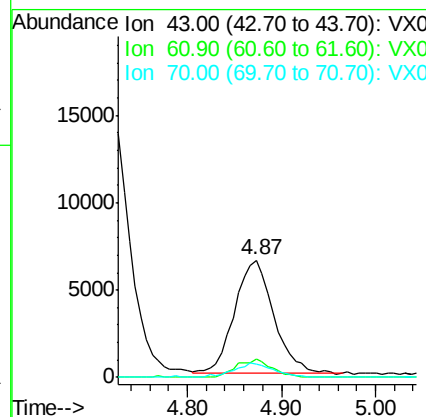
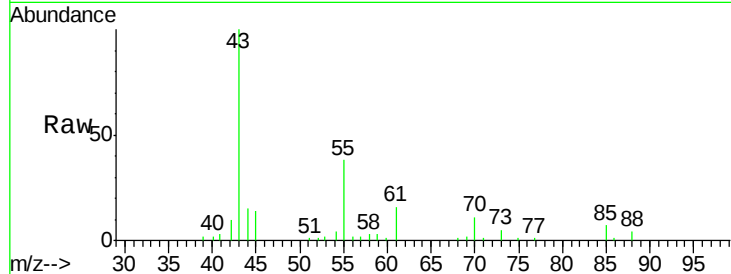
#37
Ethyl Acetate
Concen: 4.98 ug/l
RT: 4.87 min Scan# 703
Delta R.T. 0.01 min
Lab File: VX000748.D
Acq: 10 Apr 2018 13:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.5	11.0	16.4
70	12.5	8.7	13.1

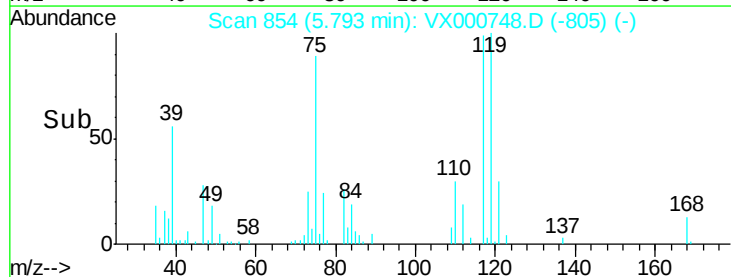
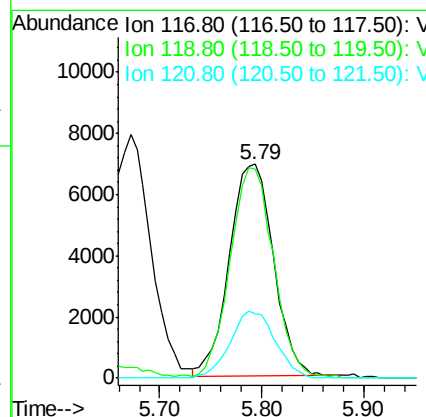
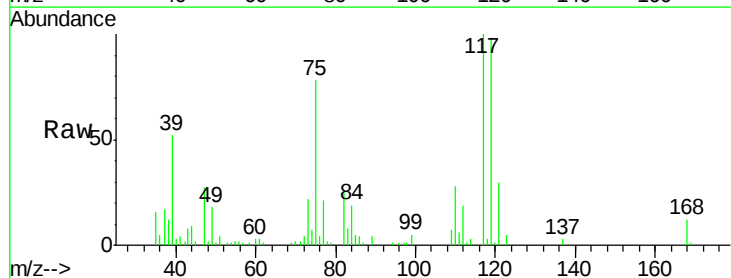
Manual Integrations
APPROVED

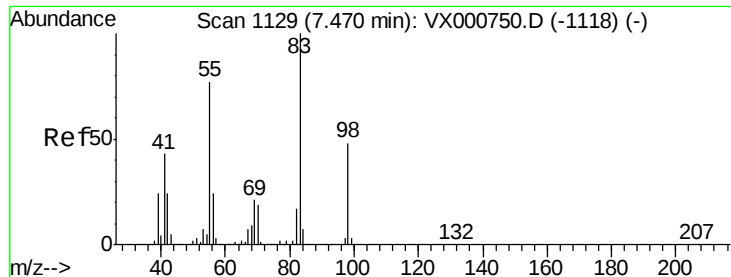
MMDadoda
4/11/2018 11:20:41 AM



#38
Carbon Tetrachloride
Concen: 4.88 ug/l
RT: 5.79 min Scan# 854
Delta R.T. -0.00 min
Lab File: VX000748.D
Acq: 10 Apr 2018 13:09

Tgt Ion	Ratio	Lower	Upper
117	100		
119	99.2	78.4	117.6
121	30.7	25.4	38.0





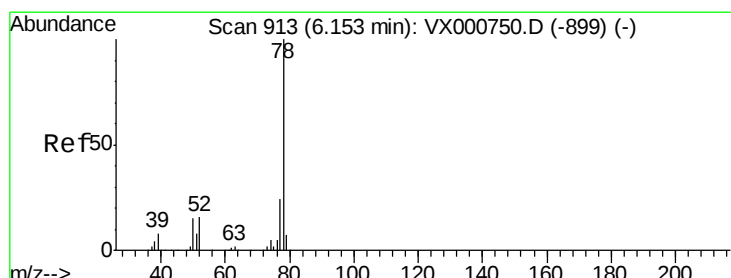
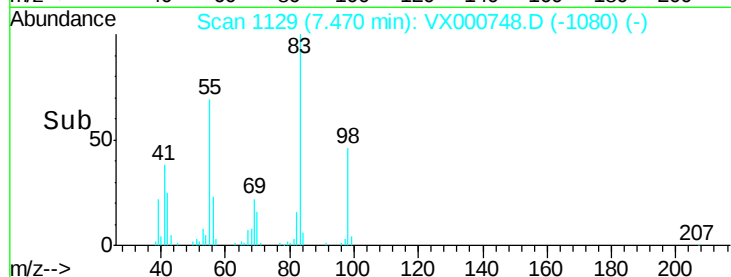
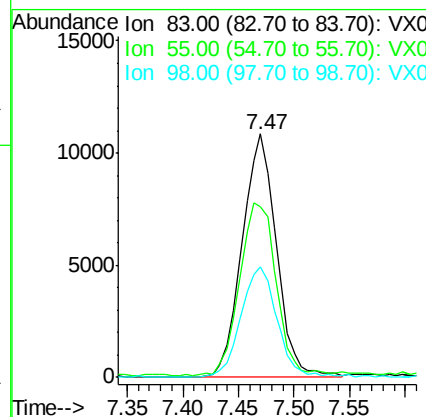
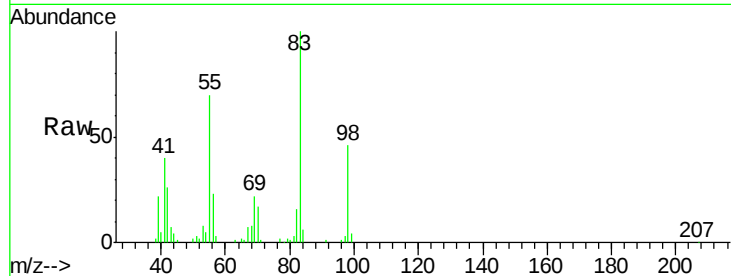
#39
Methvlcvclohexane
Concen: 5.22 ug/l
RT: 7.47 min Scan# 1129
Delta R.T. -0.00 min
Lab File: VX000748.D
Acq: 10 Apr 2018 13:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
83	100	23314		
55	69.3		61.5	92.3
98	45.5		38.1	57.1

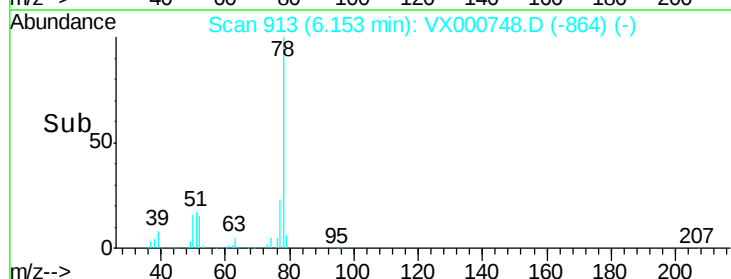
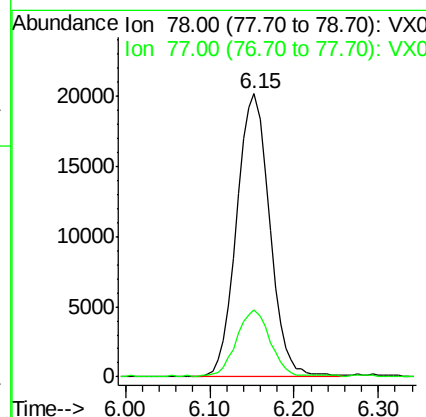
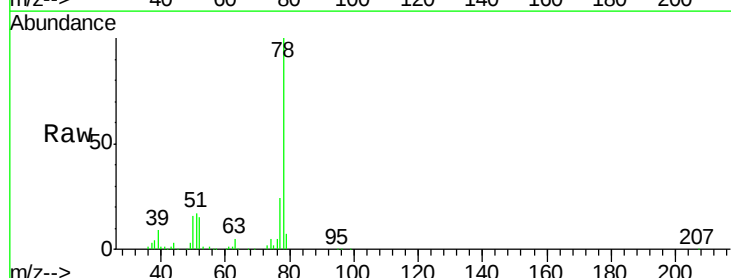
Manual Integrations
APPROVED

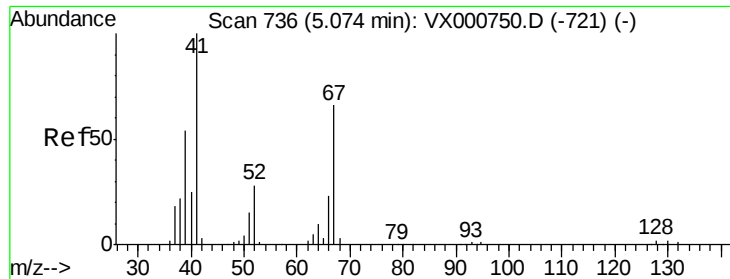
MMDadoda
4/11/2018 11:20:41 AM



#40
Benzene
Concen: 5.05 ug/l
RT: 6.15 min Scan# 913
Delta R.T. -0.00 min
Lab File: VX000748.D
Acq: 10 Apr 2018 13:09

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	53689		
77	23.5		19.0	28.6





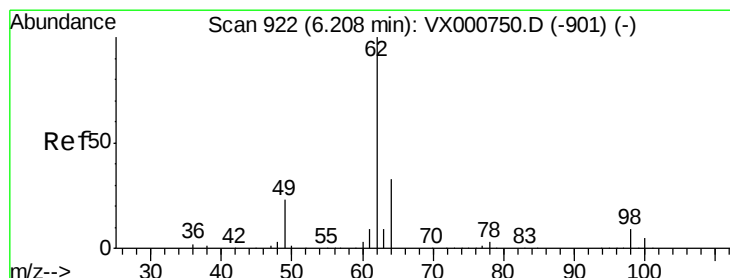
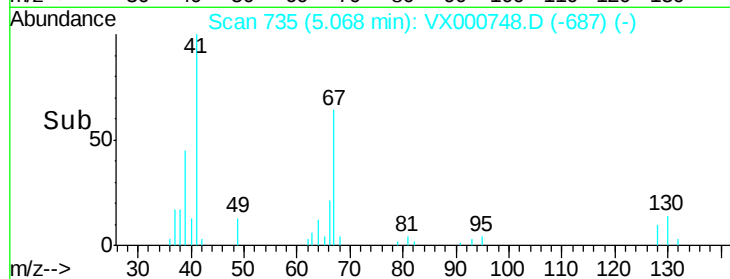
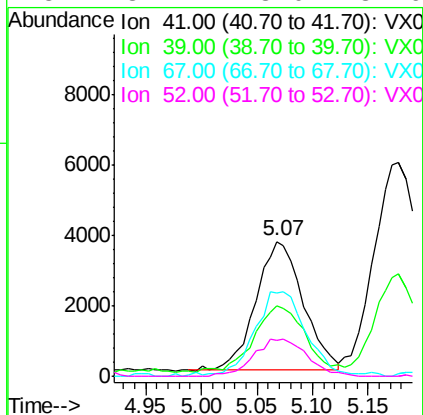
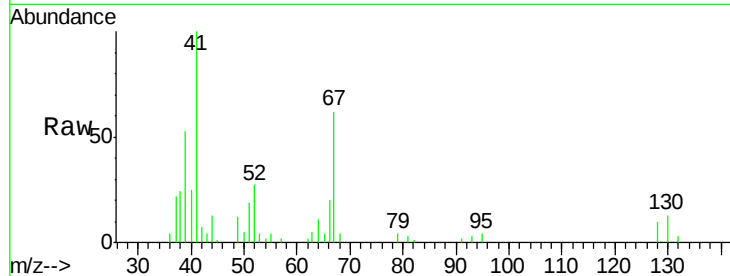
#41
Methacrylonitrile
Concen: 4.98 ug/l
RT: 5.07 min Scan# 735
Delta R.T. -0.01 min
Lab File: VX000748.D
Acq: 10 Apr 2018 13:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion:	41	Resp:	10853
Ion	Ratio	Lower	Upper
41	100		
39	56.1	44.9	67.3
67	71.9	54.7	82.1
52	32.4	23.0	34.6

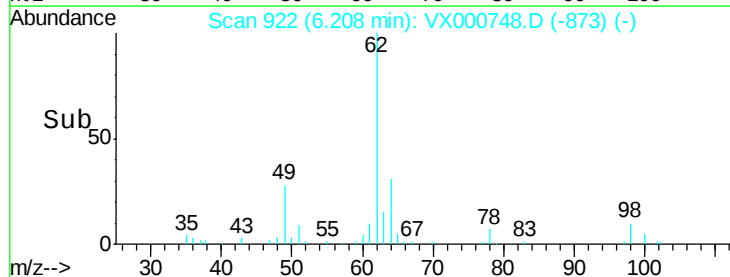
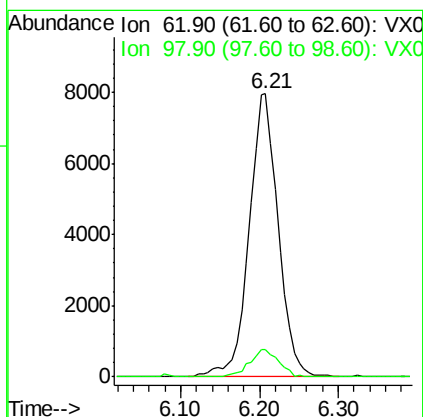
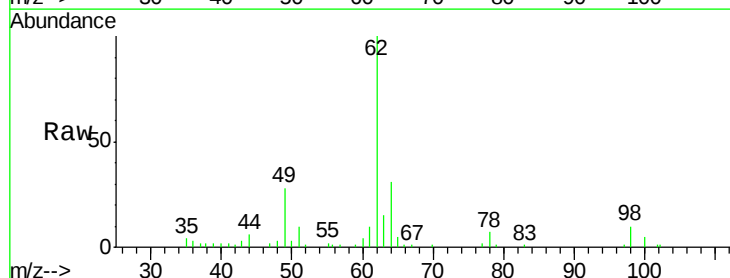
Manual Integrations
APPROVED

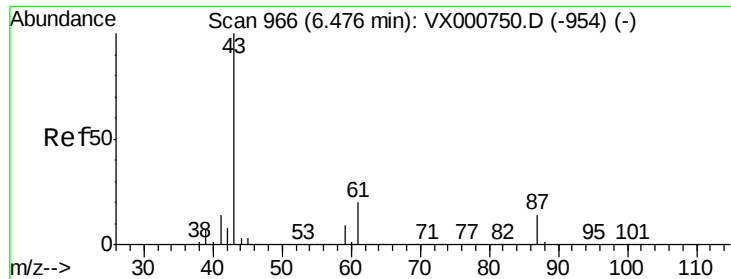
MMDadoda
4/11/2018 11:20:41 AM



#42
1,2-Dichloroethane
Concen: 5.13 ug/l
RT: 6.21 min Scan# 922
Delta R.T. -0.00 min
Lab File: VX000748.D
Acq: 10 Apr 2018 13:09

Tgt Ion:	62	Resp:	20390
Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	18.6





#43

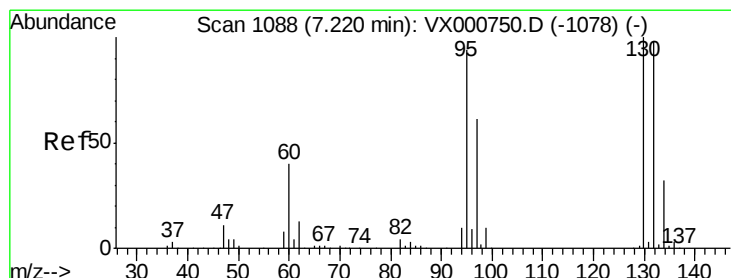
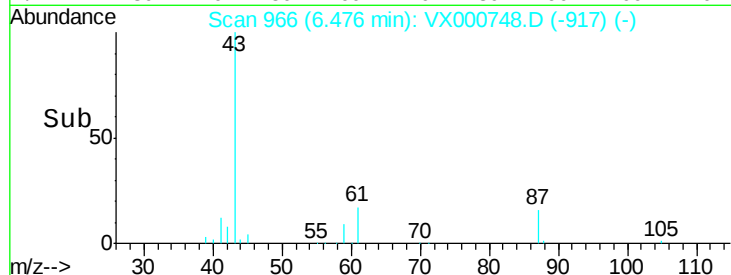
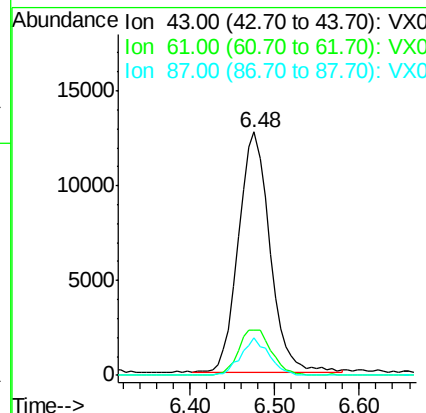
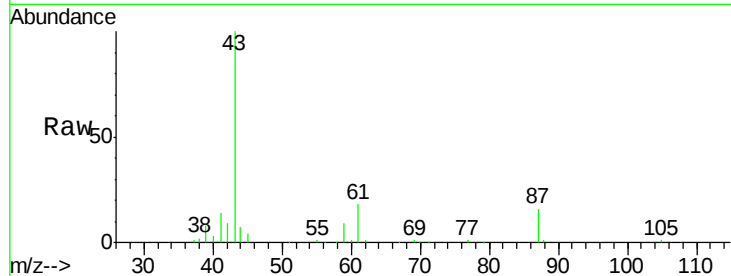
Isopropyl Acetate
 Concen: 4.98 ug/l
 RT: 6.48 min Scan# 966
 Delta R.T. -0.00 min
 Lab File: VX000748.D
 Acq: 10 Apr 2018 13:09

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
61	19.8	15.6	23.4
87	13.8	10.7	16.1

Manual Integrations
 APPROVED

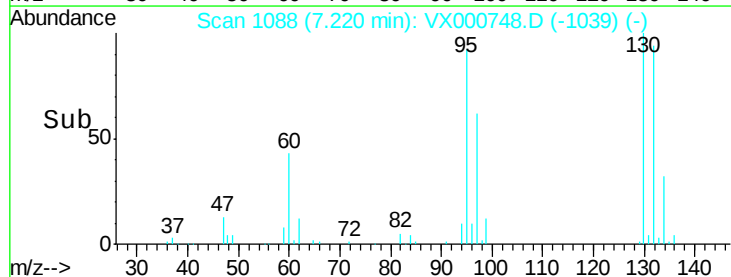
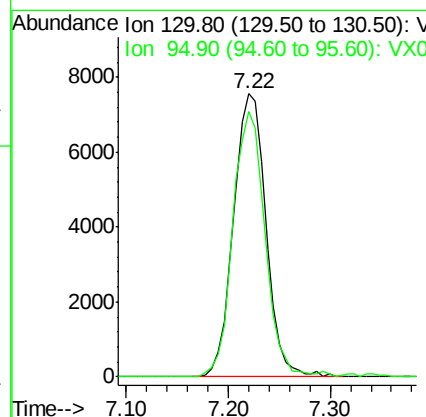
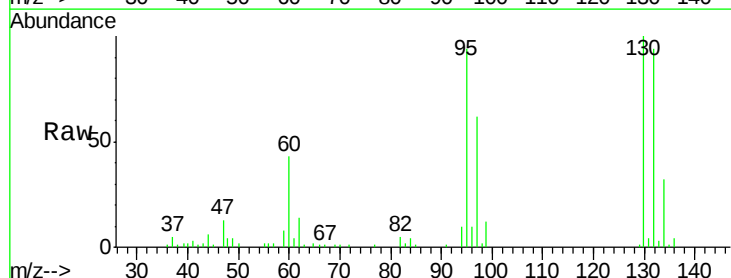
MMDadoda
 4/11/2018 11:20:41 AM

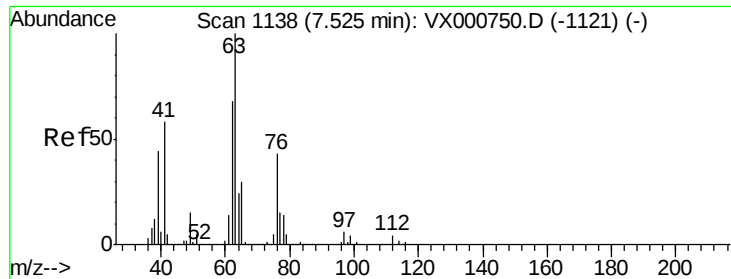


#44

Trichloroethene
 Concen: 5.03 ug/l
 RT: 7.22 min Scan# 1088
 Delta R.T. -0.00 min
 Lab File: VX000748.D
 Acq: 10 Apr 2018 13:09

Tgt Ion	Ratio	Lower	Upper
130	100		
95	93.6	0.0	187.0





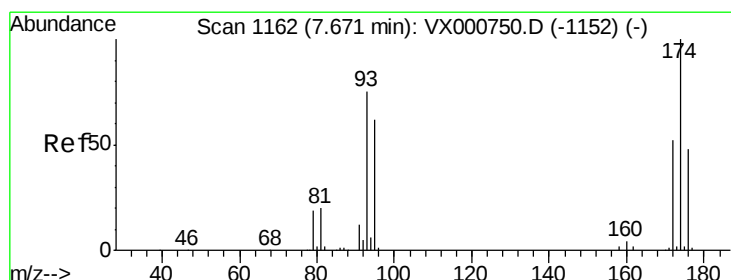
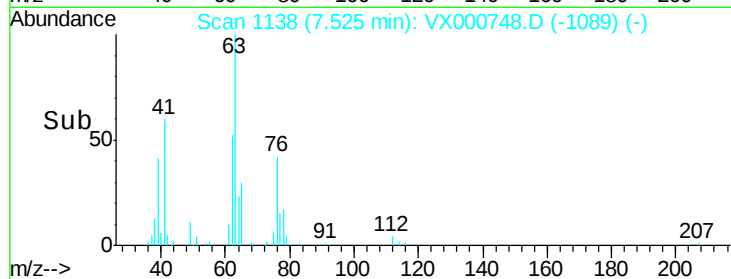
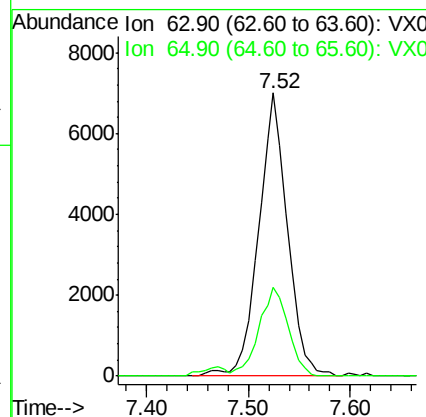
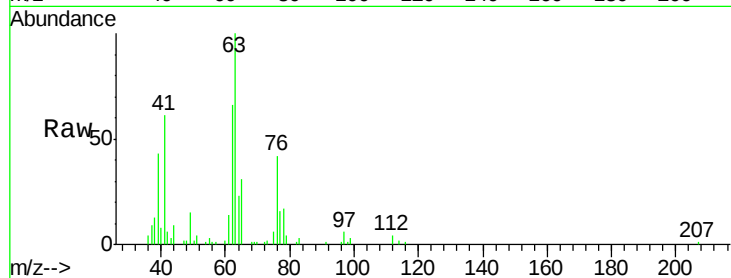
#45
 1,2-Dichloropropane
 Concen: 5.01 ug/l
 RT: 7.52 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VX000748.D
 Acq: 10 Apr 2018 13:09

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.2	23.7	35.5

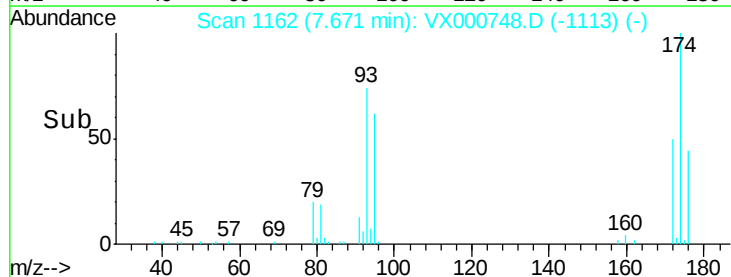
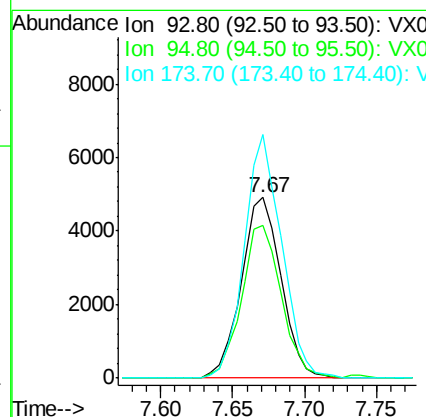
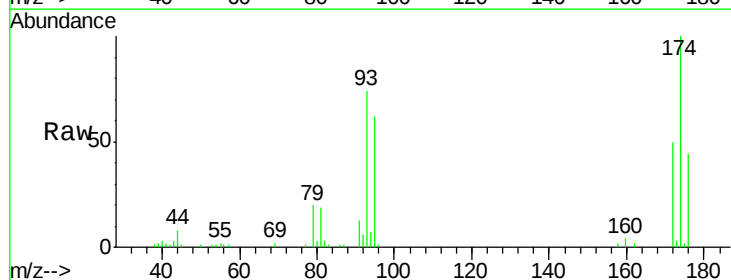
Manual Integrations
 APPROVED

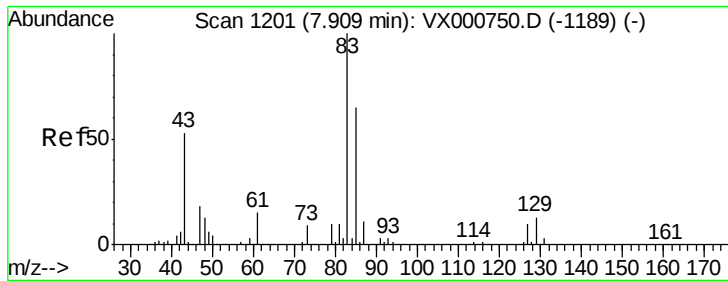
MMDadoda
 4/11/2018 11:20:41 AM



#46
 Dibromomethane
 Concen: 4.98 ug/l
 RT: 7.67 min Scan# 1162
 Delta R.T. -0.00 min
 Lab File: VX000748.D
 Acq: 10 Apr 2018 13:09

Tgt Ion	Ratio	Lower	Upper
93	100		
95	84.8	66.6	100.0
174	126.8	104.5	156.7





#47

Bromodichloromethane

Concen: 4.97 ug/l

RT: 7.91 min Scan# 1201

Delta R.T. -0.00 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

Instrument :

MSVOA_X

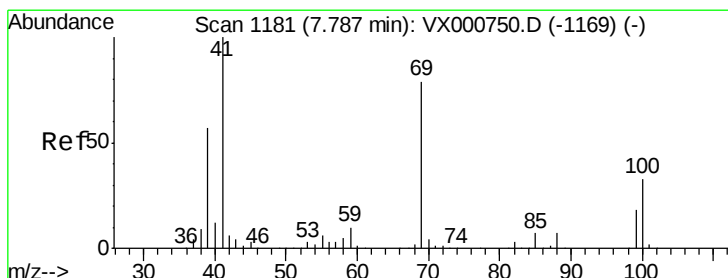
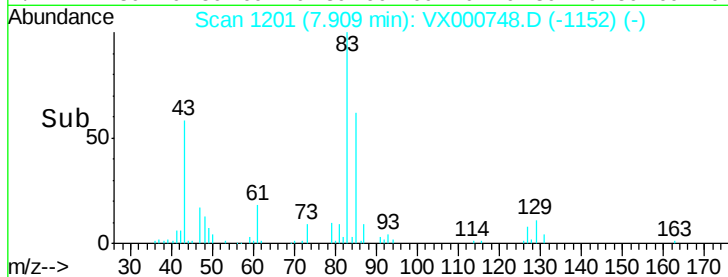
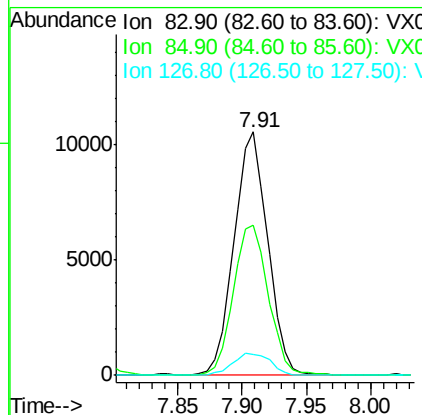
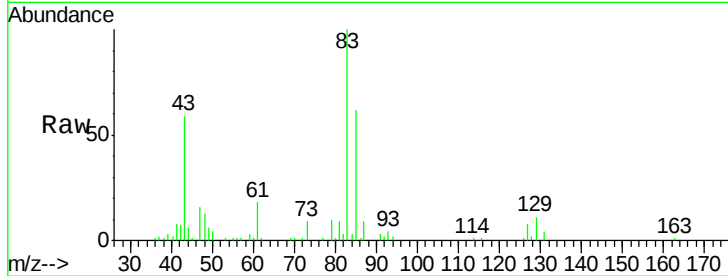
ClientSampled :

VSTDIC005

Tot Ion:	83	Resp:	19266
Ion	Ratio	Lower	Upper
83	100		
85	61.8	52.2	78.4
127	8.3	7.8	11.8

Manual Integrations
APPROVED

MMDadoda
4/11/2018 11:20:41 AM



#48

Methyl methacrylate

Concen: 4.99 ug/l

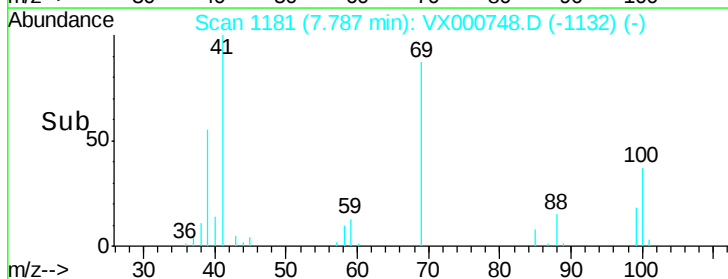
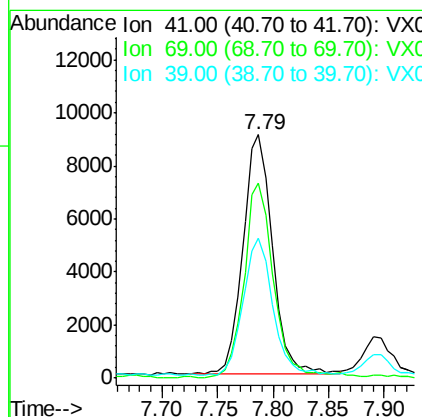
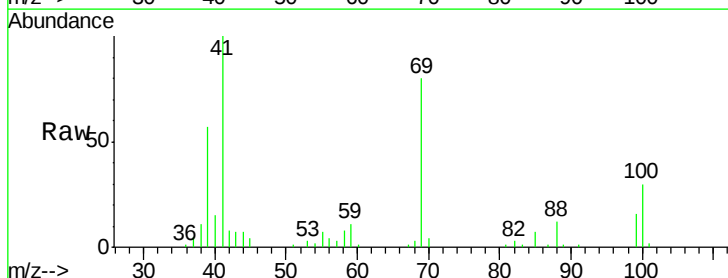
RT: 7.79 min Scan# 1181

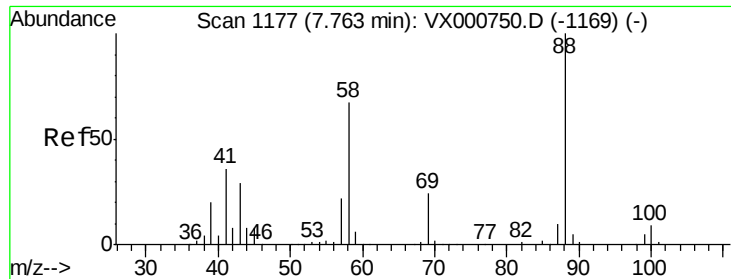
Delta R.T. -0.00 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

Tgt Ion:	41	Resp:	16744
Ion	Ratio	Lower	Upper
41	100		
69	82.5	63.9	95.9
39	57.3	45.9	68.9





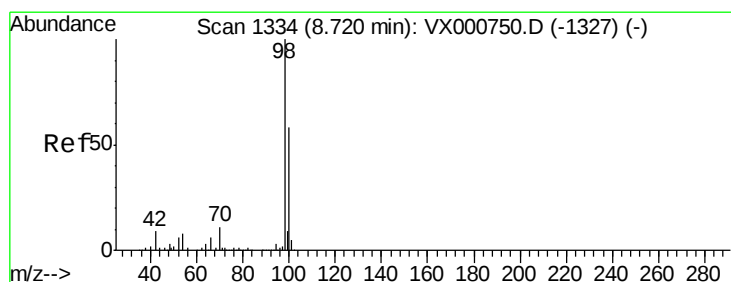
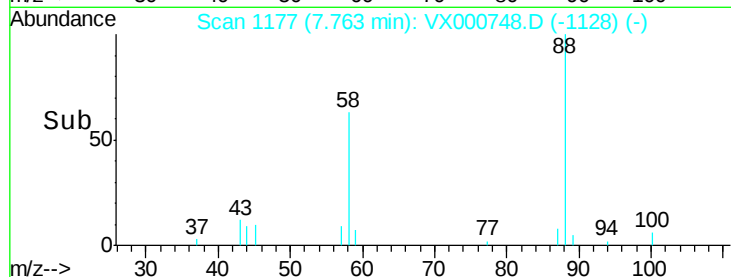
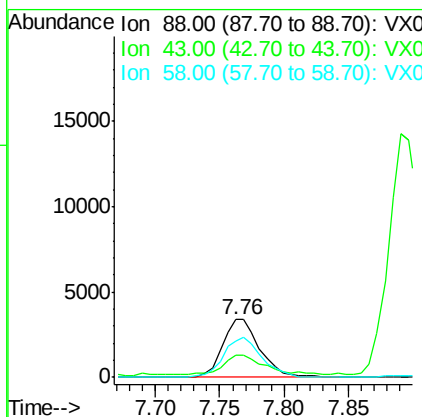
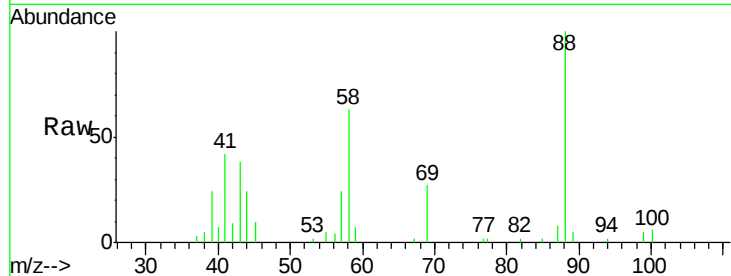
#49
1,4-Dioxane
Concen: 101.28 ug/l
RT: 7.76 min Scan# 1177
Delta R.T. -0.00 min
Lab File: VX000748.D
Acq: 10 Apr 2018 13:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
88	100		
43	37.6	25.8	38.8
58	70.0	54.4	81.6

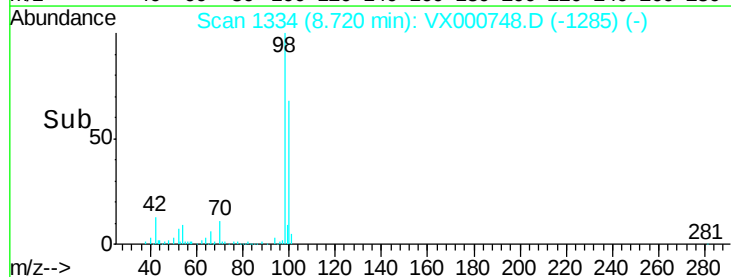
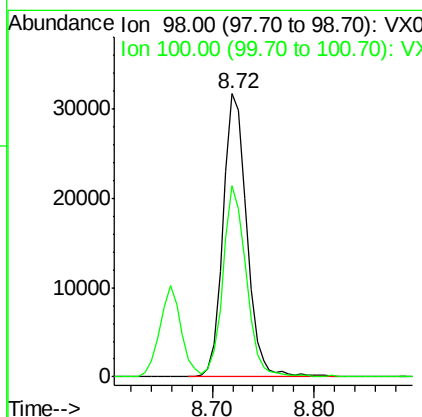
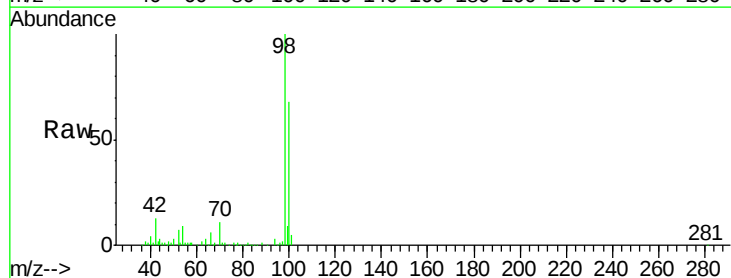
Manual Integrations
APPROVED

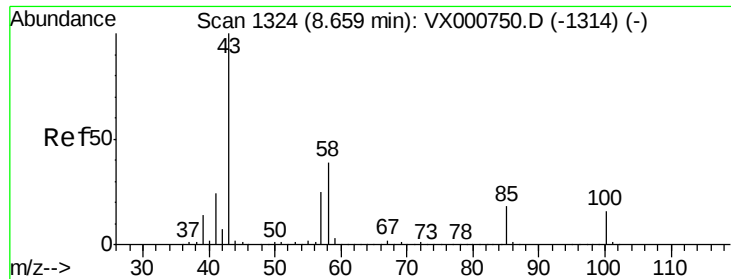
MMDadoda
4/11/2018 11:20:41 AM



#50
Toluene-d8
Concen: 5.22 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX000748.D
Acq: 10 Apr 2018 13:09

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.7	52.6	79.0





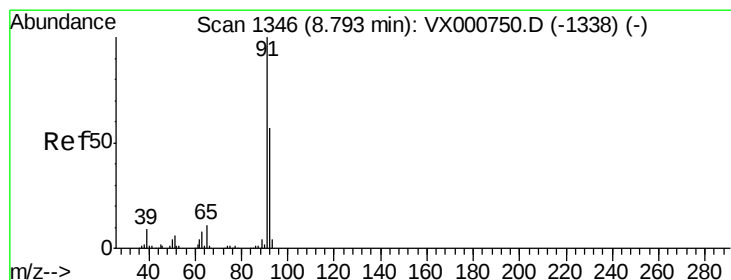
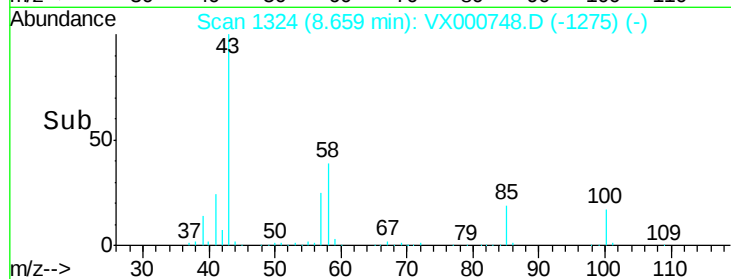
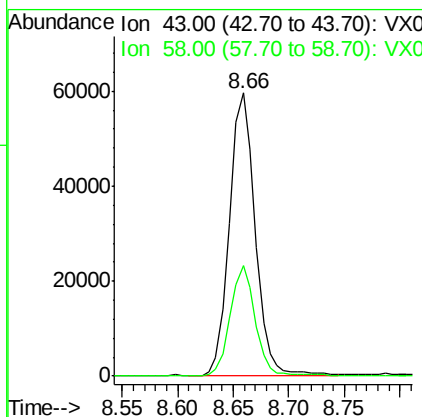
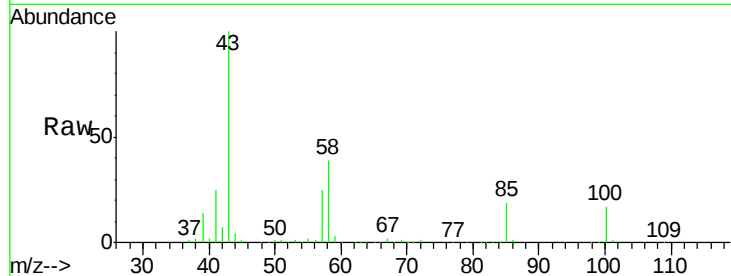
#51
4-Methyl-2-Pentanone
Concen: 24.84 ug/l
RT: 8.66 min Scan# 1324
Delta R.T. -0.00 min
Lab File: VX000748.D
Acq: 10 Apr 2018 13:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
58	37.8	30.3	45.5

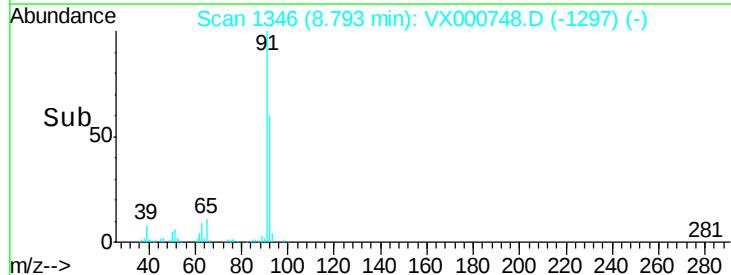
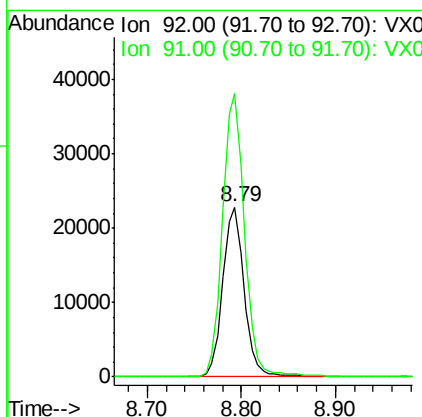
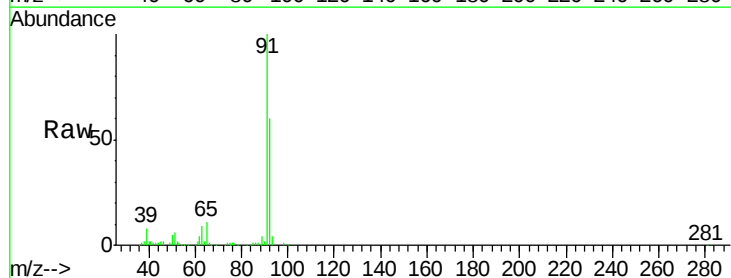
Manual Integrations
APPROVED

MMDadoda
4/11/2018 11:20:41 AM



#52
Toluene
Concen: 5.14 ug/l
RT: 8.79 min Scan# 1346
Delta R.T. -0.00 min
Lab File: VX000748.D
Acq: 10 Apr 2018 13:09

Tgt Ion	Ratio	Lower	Upper
92	100		
91	171.7	139.0	208.4





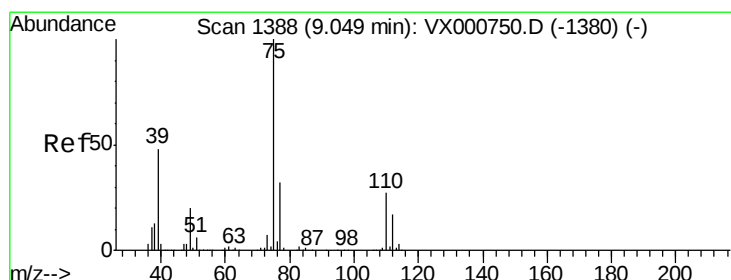
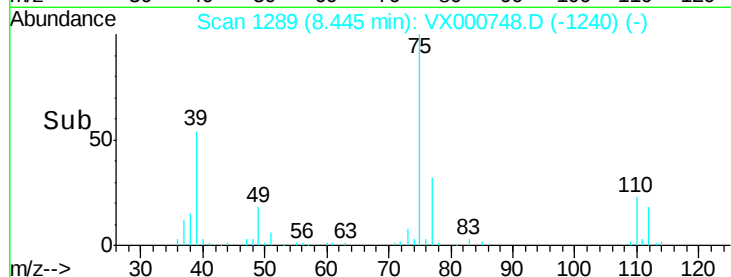
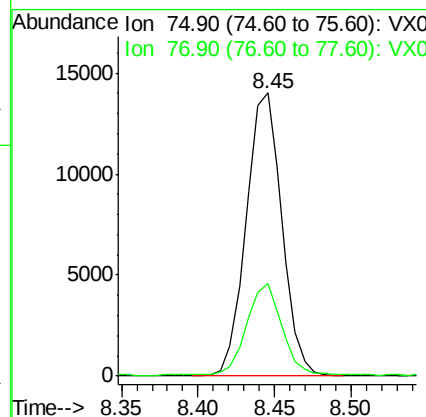
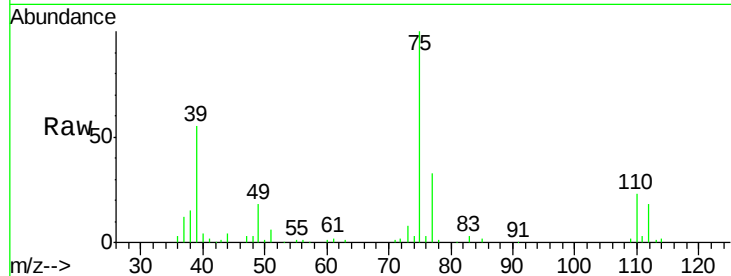
#53
t-1,3-Dichloropropene
Concen: 4.88 ug/l
RT: 8.45 min Scan# 1289
Delta R.T. -0.00 min
Lab File: VX000748.D
Acq: 10 Apr 2018 13:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.4	38.2

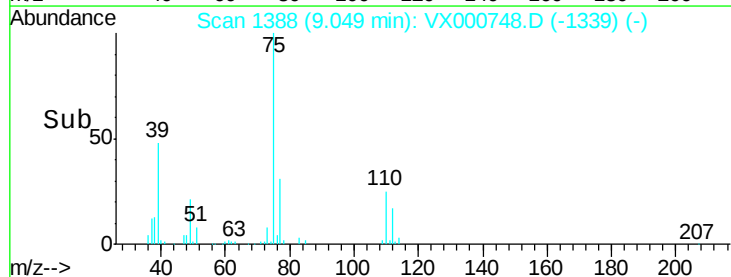
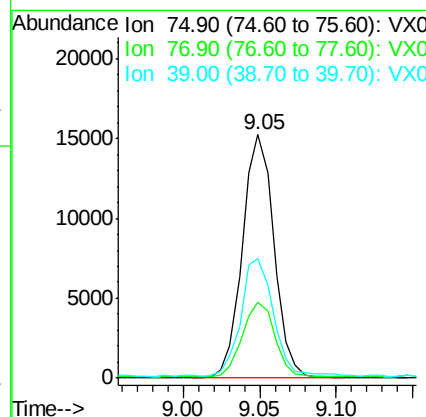
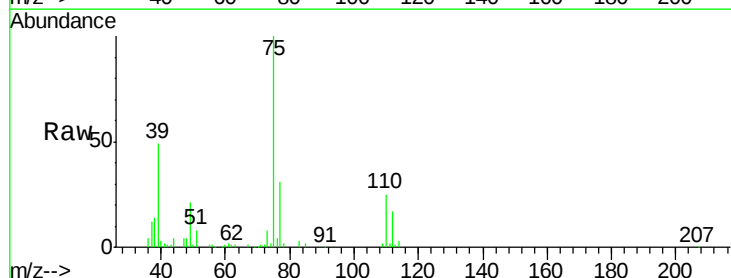
Manual Integrations
APPROVED

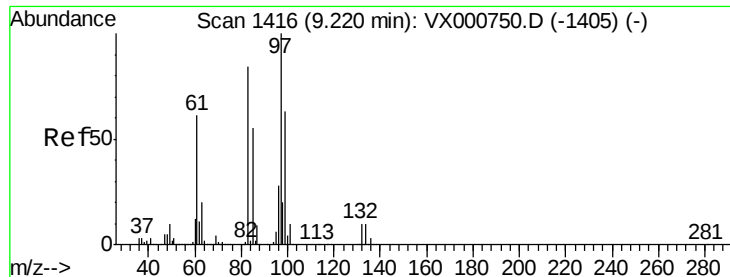
MMDadoda
4/11/2018 11:20:41 AM



#54
cis-1,3-Dichloropropene
Concen: 4.78 ug/l
RT: 9.05 min Scan# 1388
Delta R.T. -0.00 min
Lab File: VX000748.D
Acq: 10 Apr 2018 13:09

Tgt Ion	Ratio	Lower	Upper
75	100		
77	30.6	25.4	38.2
39	47.9	38.6	58.0





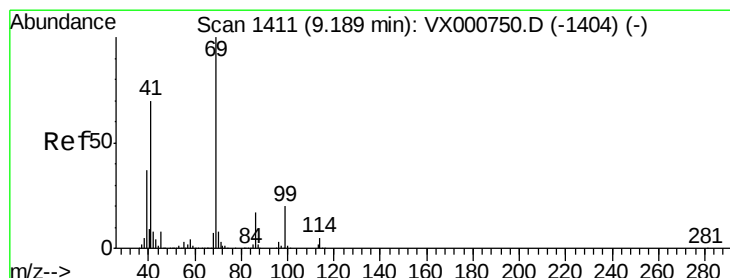
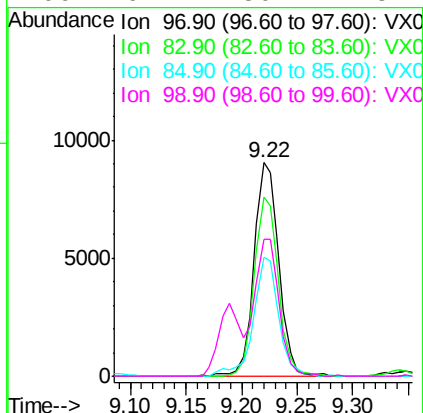
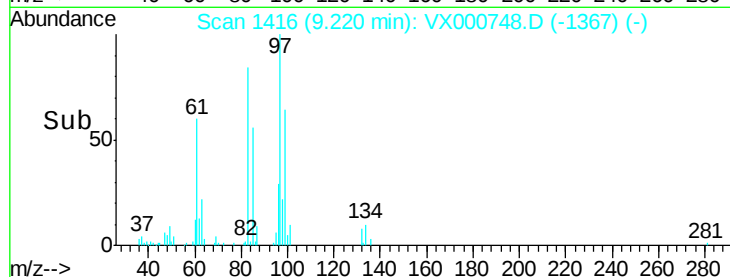
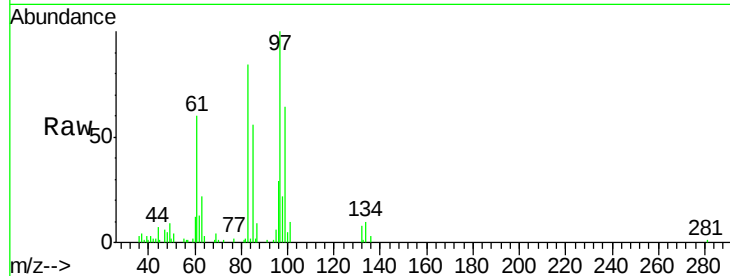
#55
 1,1,2-Trichloroethane
 Concen: 5.06 ug/l
 RT: 9.22 min Scan# 1416
 Delta R.T. -0.00 min
 Lab File: VX000748.D
 Acq: 10 Apr 2018 13:09

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Tot Ion:	97	Resp:	14002
Ion	Ratio	Lower	Upper
97	100		
83	83.8	67.6	101.4
85	55.5	43.8	65.6
99	64.4	50.2	75.4

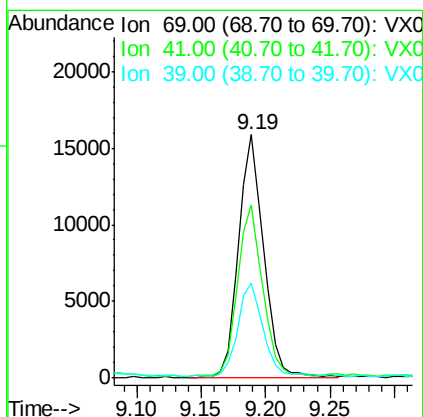
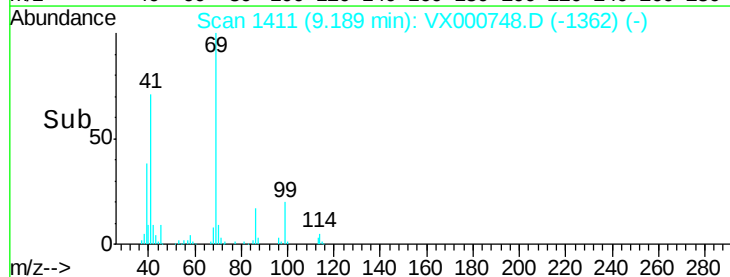
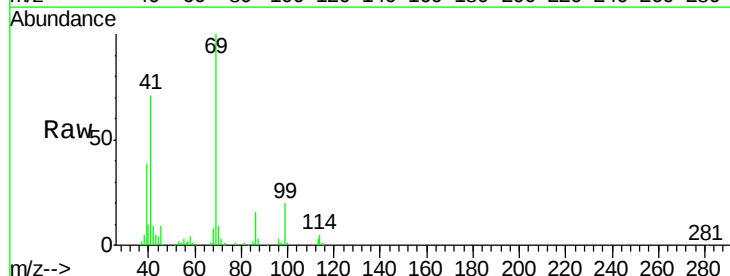
Manual Integrations
 APPROVED

MMDadoda
 4/11/2018 11:20:41 AM



#56
 Ethyl methacrylate
 Concen: 4.97 ug/l
 RT: 9.19 min Scan# 1411
 Delta R.T. -0.00 min
 Lab File: VX000748.D
 Acq: 10 Apr 2018 13:09

Tgt Ion:	69	Resp:	21699
Ion	Ratio	Lower	Upper
69	100		
41	69.6	55.6	83.4
39	37.8	30.3	45.5





#57

1,3-Dichloropropane

Concen: 4.95 ug/l

RT: 9.38 min Scan# 1442

Delta R.T. -0.00 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 76 Resp: 22417

Ion Ratio Lower Upper

76 100

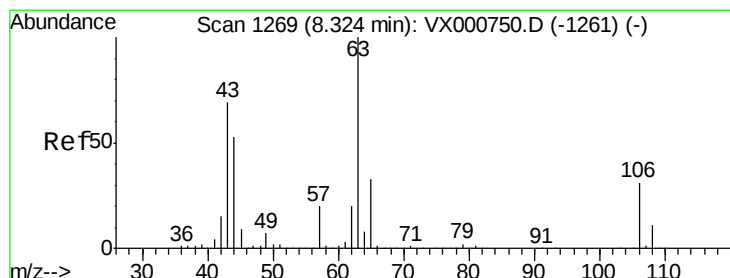
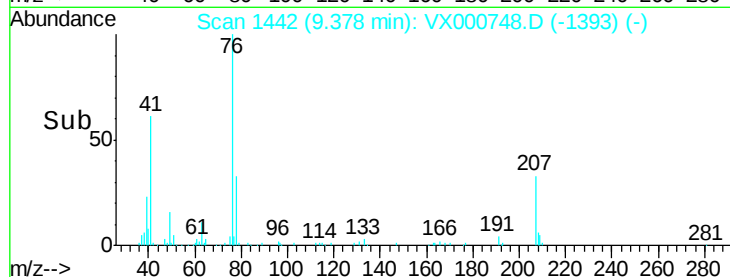
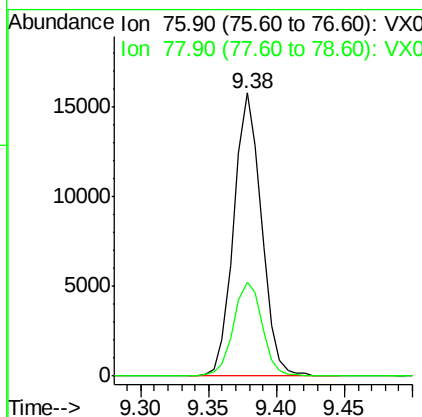
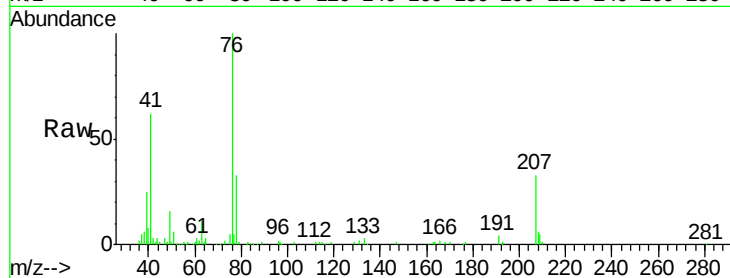
78 34.4 25.8 38.6

Manual Integrations

APPROVED

MMDadoda

4/11/2018 11:20:41 AM



#58

2-Chloroethyl Vinyl ether

Concen: 25.25 ug/l

RT: 8.32 min Scan# 1268

Delta R.T. -0.01 min

Lab File: VX000748.D

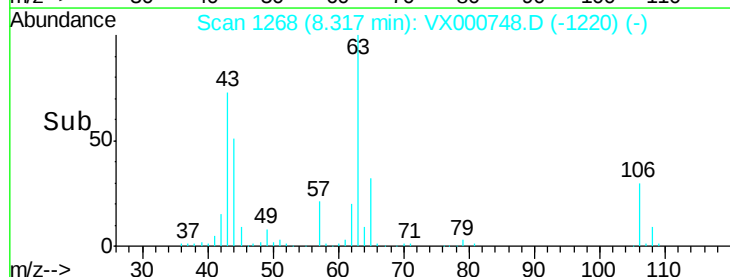
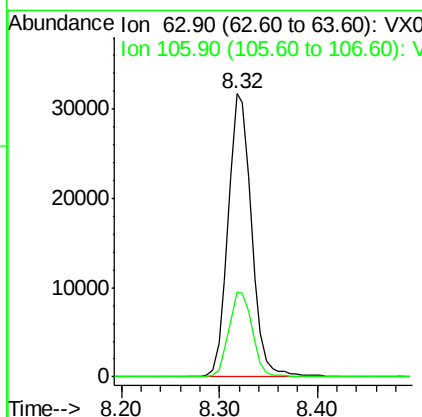
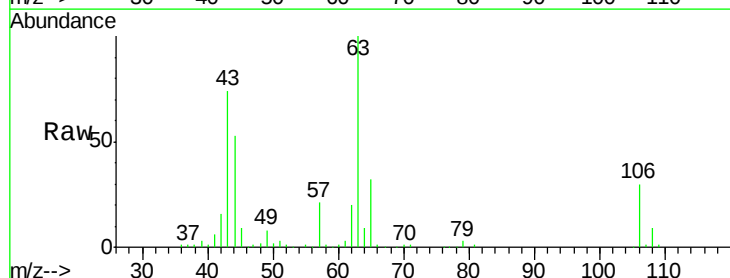
Acq: 10 Apr 2018 13:09

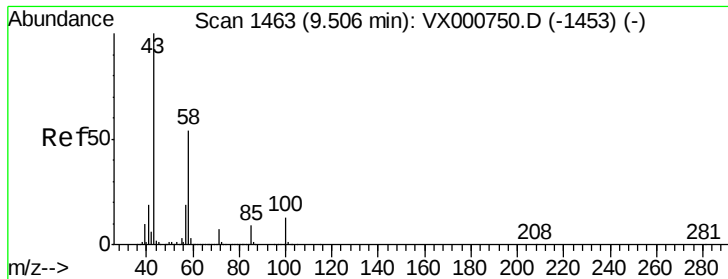
Tgt Ion: 63 Resp: 52758

Ion Ratio Lower Upper

63 100

106 30.0 24.3 36.5





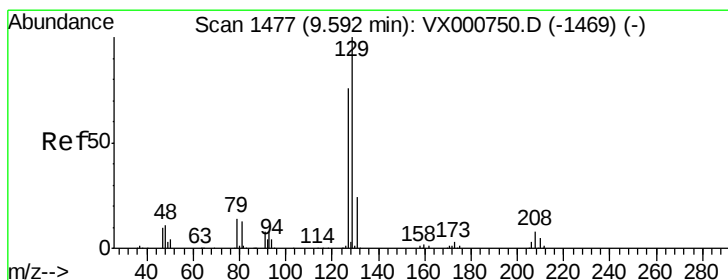
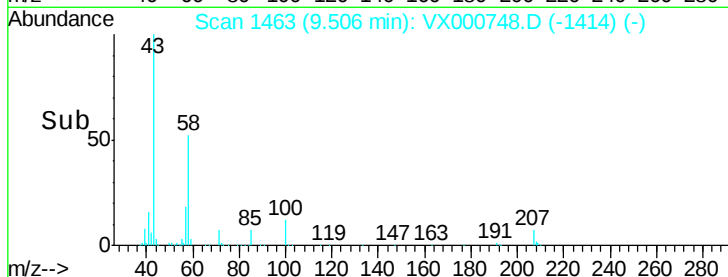
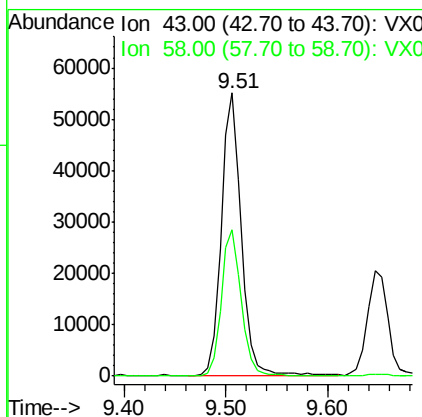
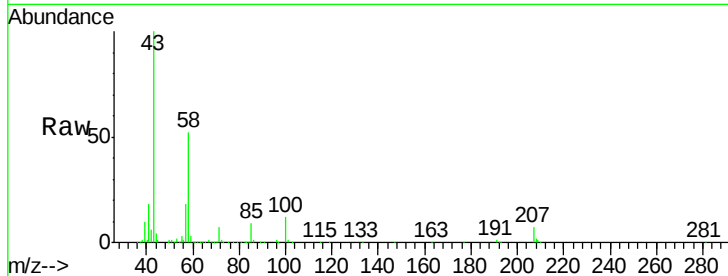
#59
2-Hexanone
Concen: 24.95 ug/l
RT: 9.51 min Scan# 1463
Delta R.T. -0.00 min
Lab File: VX000748.D
Acq: 10 Apr 2018 13:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion: 43 Resp: 74343
Ion Ratio Lower Upper
43 100
58 52.4 26.5 79.5

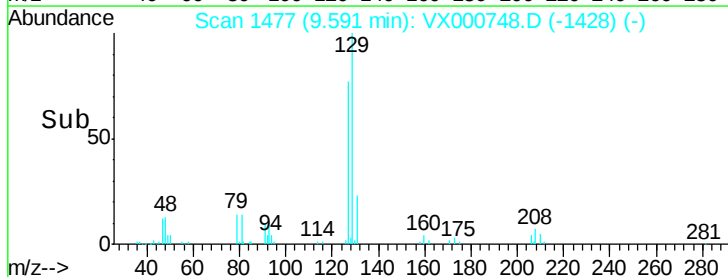
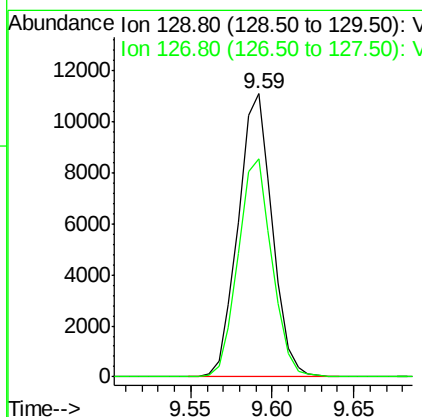
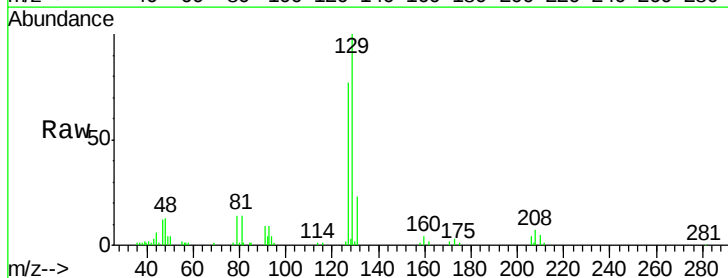
Manual Integrations
APPROVED

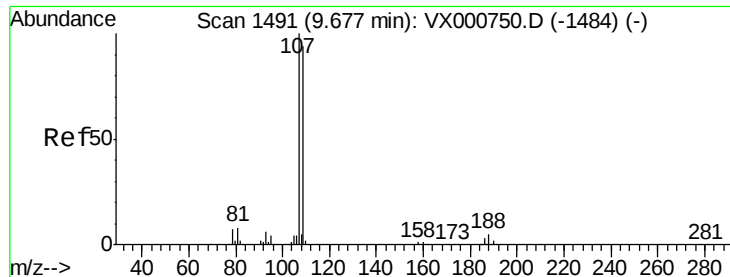
MMDadoda
4/11/2018 11:20:41 AM



#60
Dibromochloromethane
Concen: 4.67 ug/l
RT: 9.59 min Scan# 1477
Delta R.T. -0.00 min
Lab File: VX000748.D
Acq: 10 Apr 2018 13:09

Tgt Ion: 129 Resp: 16167
Ion Ratio Lower Upper
129 100
127 76.6 38.4 115.1





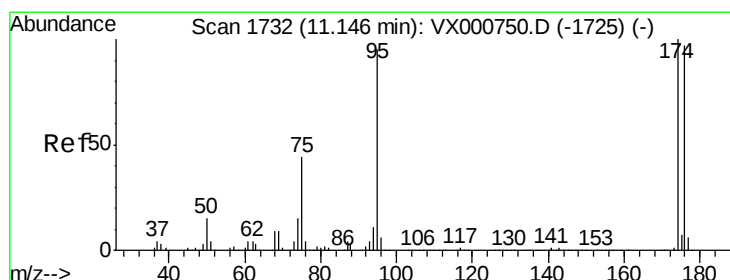
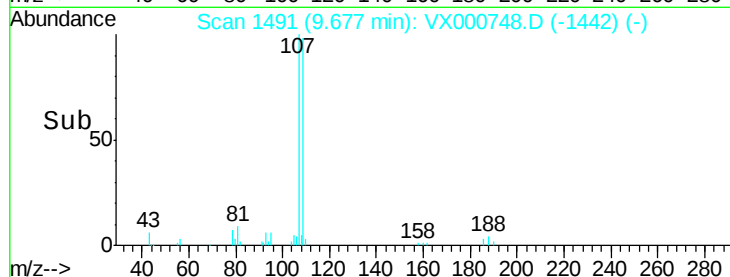
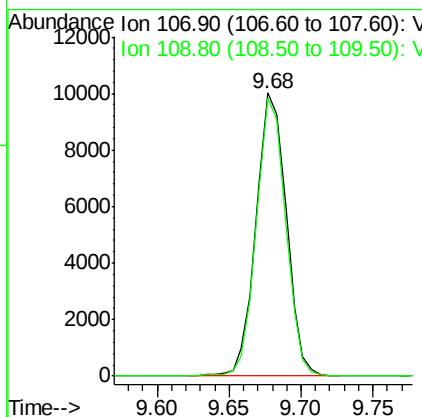
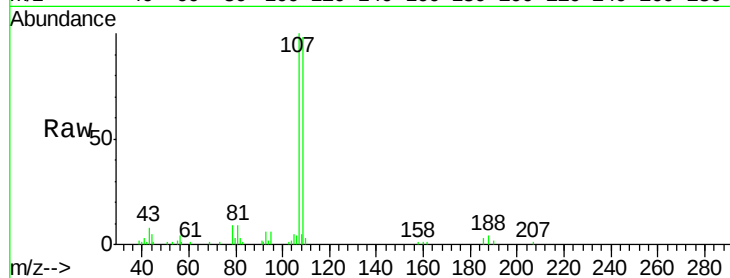
#61
 1,2-Dibromoethane
 Concen: 4.83 ug/l
 RT: 9.68 min Scan# 1491
 Delta R.T. -0.00 min
 Lab File: VX000748.D
 Acq: 10 Apr 2018 13:09

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.1	76.2	114.4

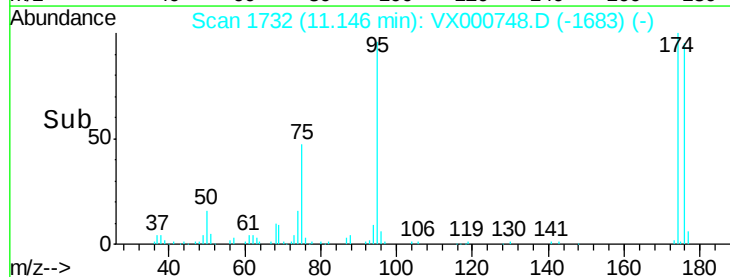
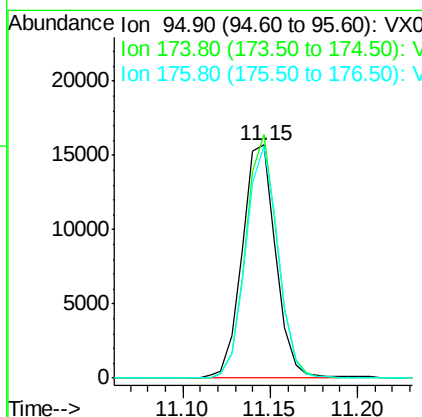
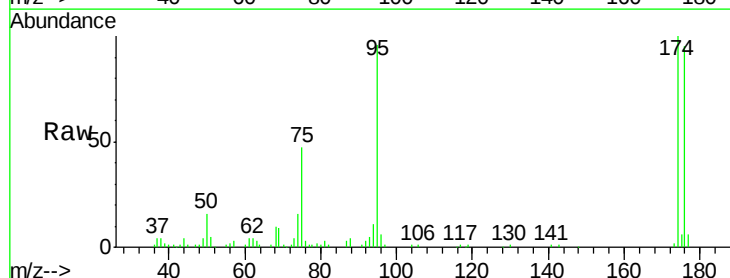
Manual Integrations
 APPROVED

MMDadoda
 4/11/2018 11:20:41 AM



#62
 4-Bromofluorobenzene
 Concen: 5.26 ug/l
 RT: 11.15 min Scan# 1732
 Delta R.T. -0.00 min
 Lab File: VX000748.D
 Acq: 10 Apr 2018 13:09

Tgt Ion	Ratio	Lower	Upper
95	100		
174	98.5	0.0	198.4
176	95.8	0.0	194.4





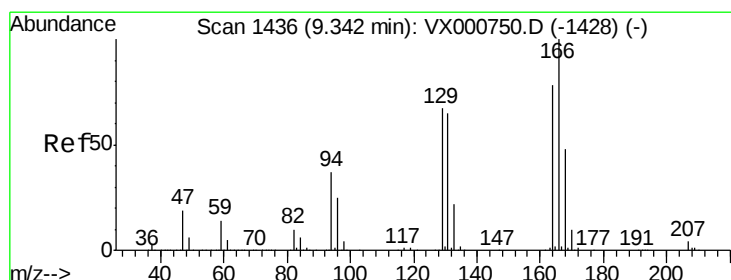
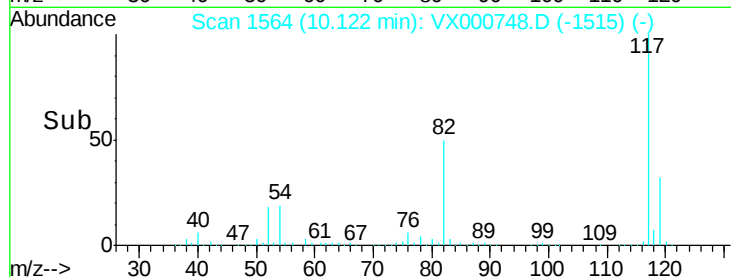
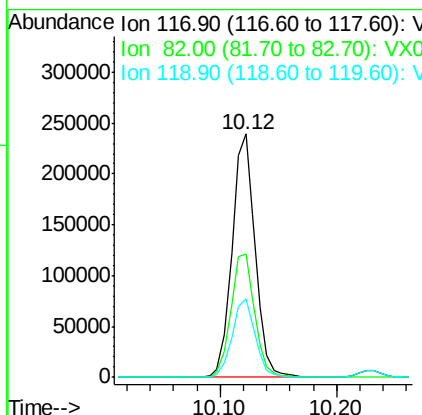
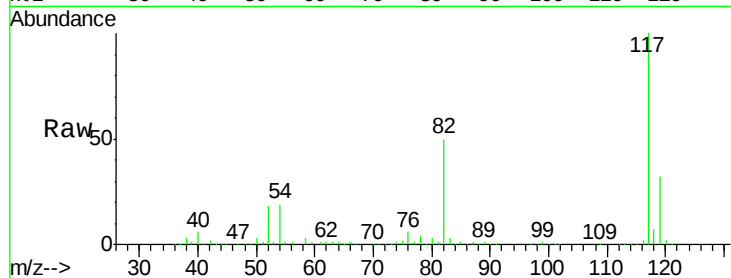
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. -0.00 min
Lab File: VX000748.D
Acq: 10 Apr 2018 13:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
117	100		
82	50.5	41.9	62.9
119	32.1	26.0	39.0

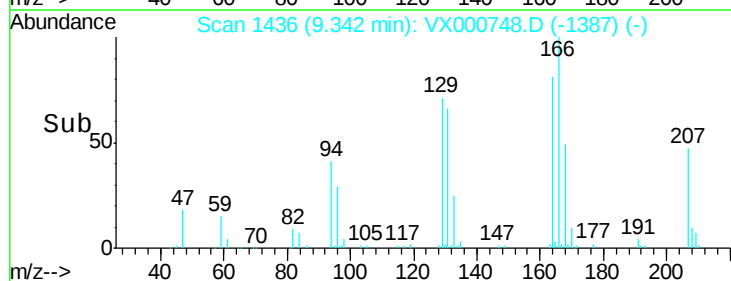
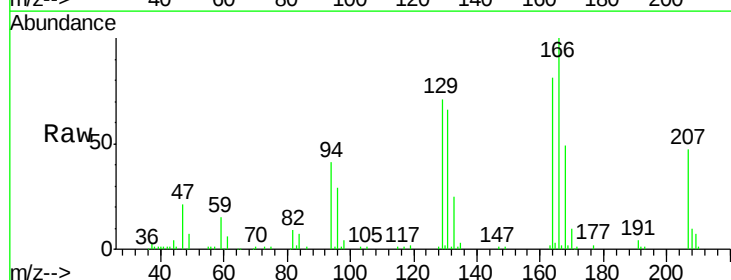
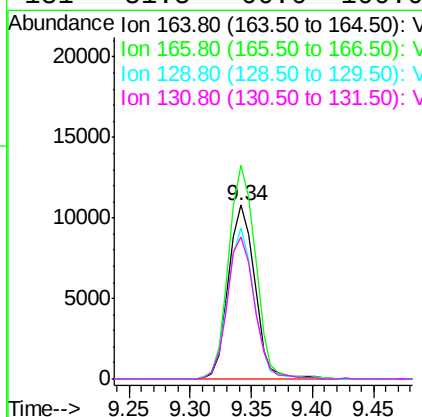
Manual Integrations
APPROVED

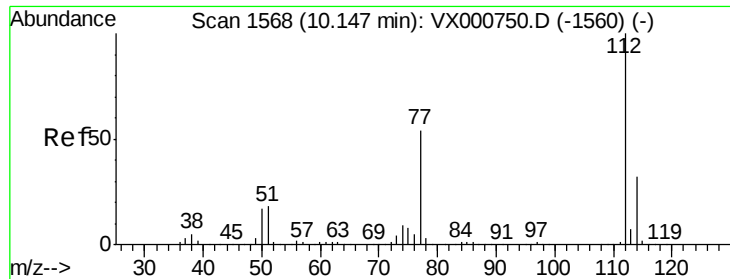
MMDadoda
4/11/2018 11:20:41 AM



#64
Tetrachloroethene
Concen: 5.07 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. -0.00 min
Lab File: VX000748.D
Acq: 10 Apr 2018 13:09

Tgt Ion	Ratio	Lower	Upper
164	100		
166	122.9	102.8	154.2
129	86.8	68.5	102.7
131	81.5	66.6	100.0





#65

Chlorobenzene

Concen: 5.02 ug/l

RT: 10.15 min Scan# 1568

Delta R.T. -0.00 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion:112 Resp: 41554

Ion Ratio Lower Upper

112 100

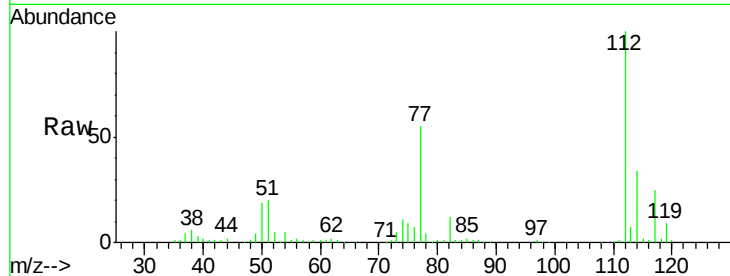
114 33.8 25.8 38.8

Manual Integrations

APPROVED

MMDadoda

4/11/2018 11:20:41 AM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

30000

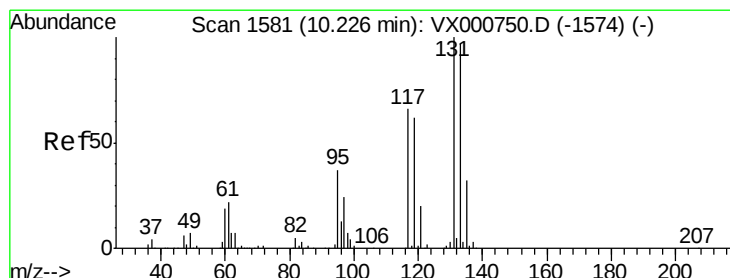
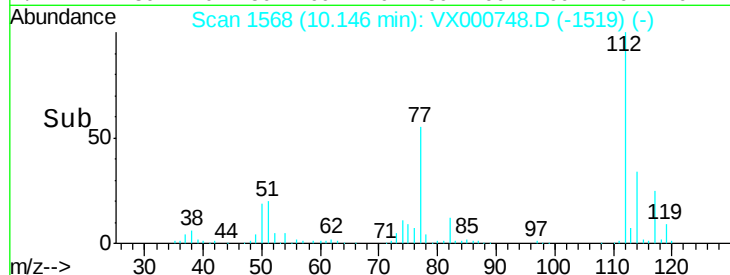
20000

10000

0

10.10 10.15 10.20

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 4.97 ug/l

RT: 10.23 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

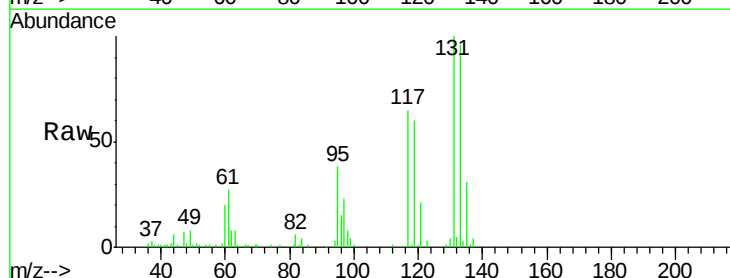
Tgt Ion:131 Resp: 15584

Ion Ratio Lower Upper

131 100

133 93.9 48.3 144.9

119 61.3 31.4 94.0



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

15000

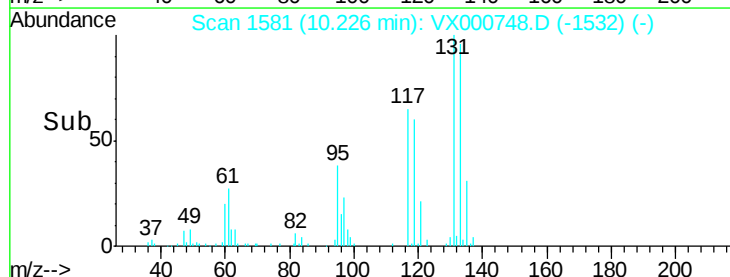
10000

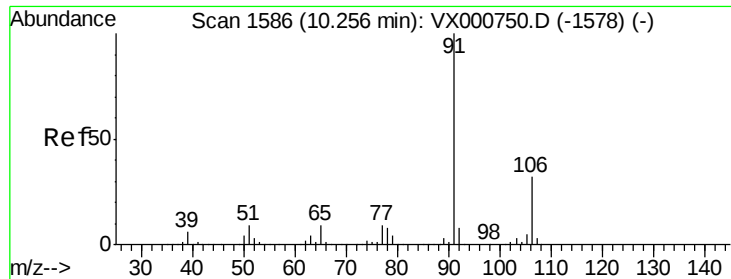
5000

0

10.15 10.20 10.25 10.30

Time-->





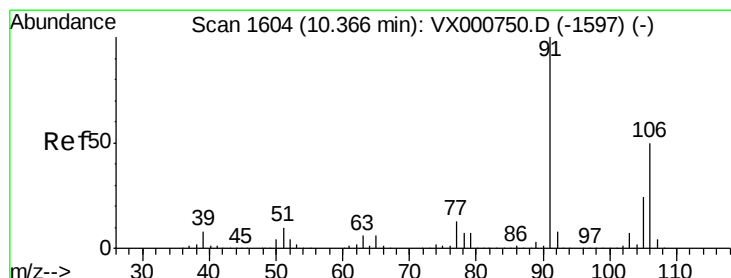
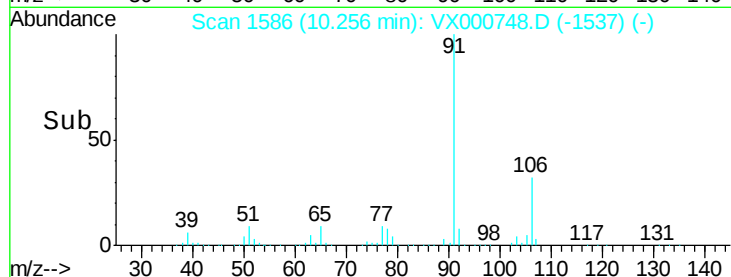
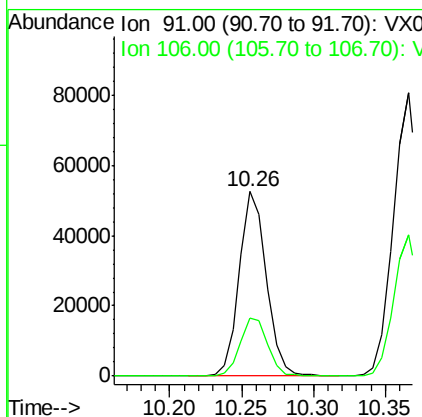
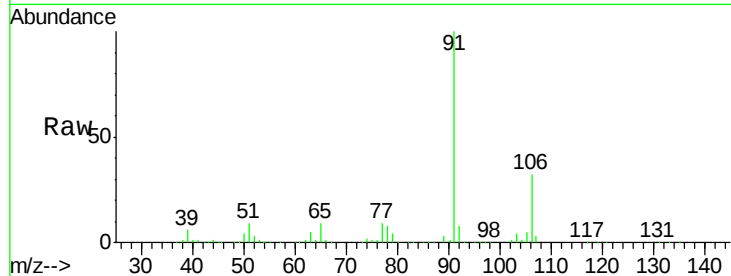
#67
Ethyl Benzene
Concen: 5.02 ug/l
RT: 10.26 min Scan# 1586
Delta R.T. -0.00 min
Lab File: VX000748.D
Acq: 10 Apr 2018 13:09

Instrument :
MSVOA_X
ClientSampled :
VSTDIC005

Tot Ion: 91 Resp: 69200
Ion Ratio Lower Upper
91 100
106 31.8 25.4 38.0

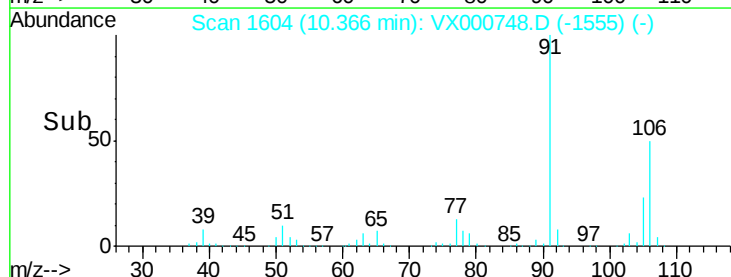
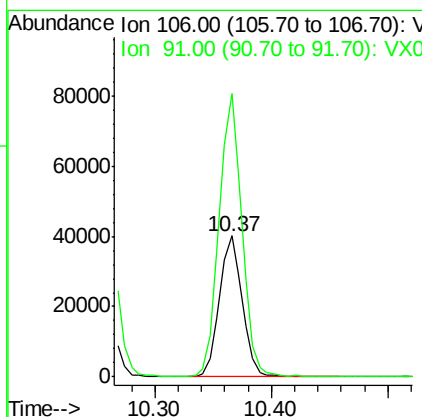
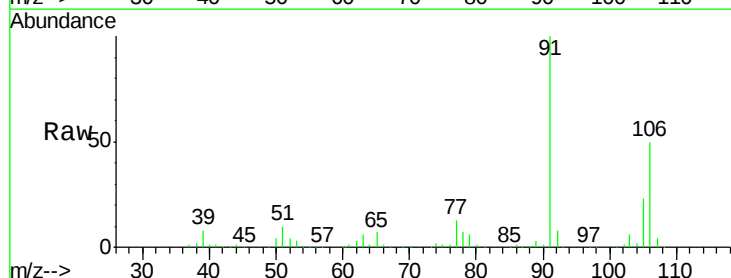
Manual Integrations
APPROVED

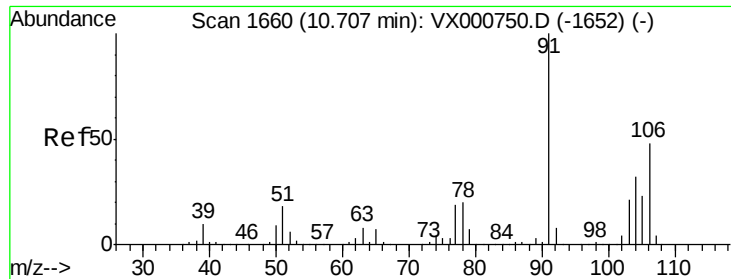
MMDadoda
4/11/2018 11:20:41 AM



#68
m/p-Xylenes
Concen: 9.92 ug/l
RT: 10.37 min Scan# 1604
Delta R.T. -0.00 min
Lab File: VX000748.D
Acq: 10 Apr 2018 13:09

Tgt Ion: 106 Resp: 54088
Ion Ratio Lower Upper
106 100
91 201.1 159.3 238.9





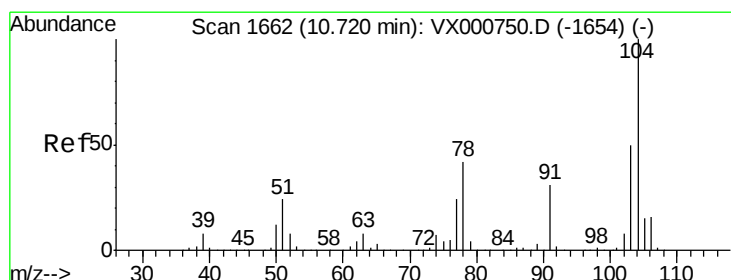
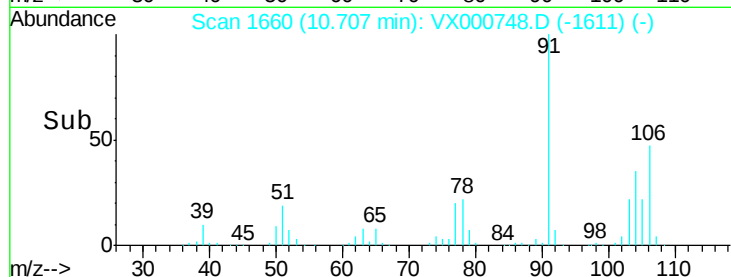
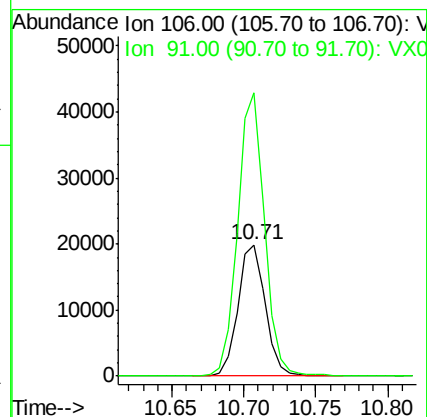
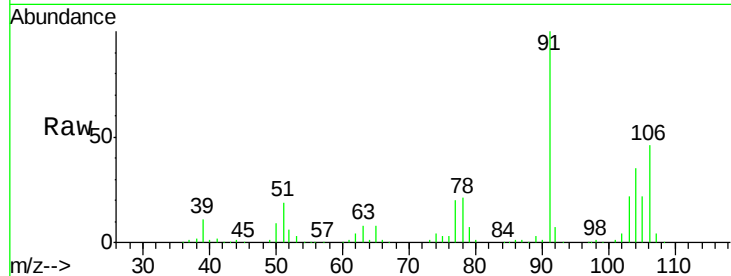
#69
o-Xylene
Concen: 4.98 ug/l
RT: 10.71 min Scan# 1660
Delta R.T. -0.00 min
Lab File: VX000748.D
Acq: 10 Apr 2018 13:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion:106 Resp: 26397
Ion Ratio Lower Upper
106 100
91 212.2 105.0 315.0

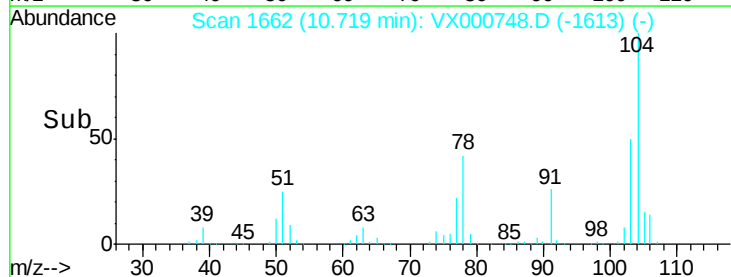
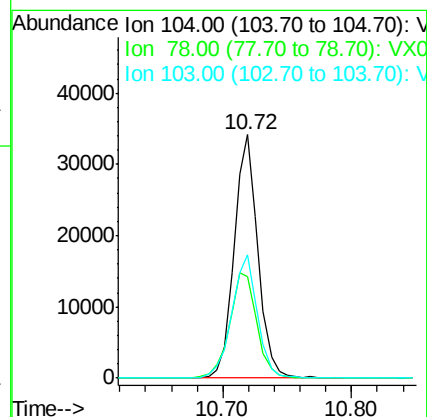
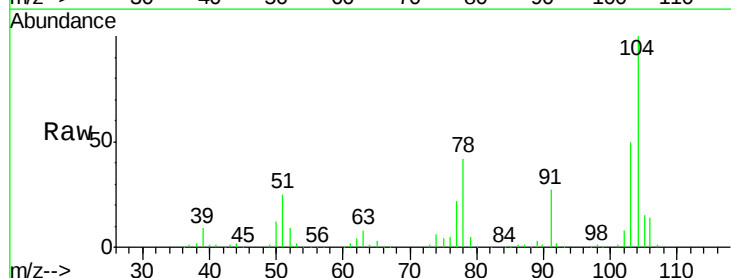
Manual Integrations
APPROVED

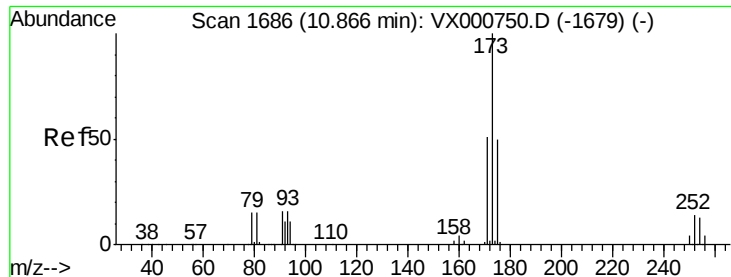
MMDadoda
4/11/2018 11:20:41 AM



#70
Styrene
Concen: 4.92 ug/l
RT: 10.72 min Scan# 1662
Delta R.T. -0.00 min
Lab File: VX000748.D
Acq: 10 Apr 2018 13:09

Tgt Ion:104 Resp: 44024
Ion Ratio Lower Upper
104 100
78 49.6 39.0 58.6
103 54.5 44.1 66.1





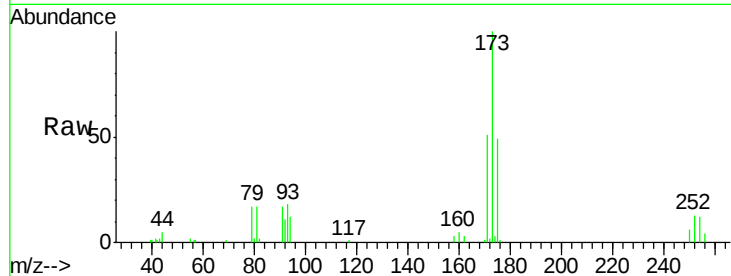
#71
Bromoform
Concen: 4.42 ug/l
RT: 10.87 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VX000748.D
Acq: 10 Apr 2018 13:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

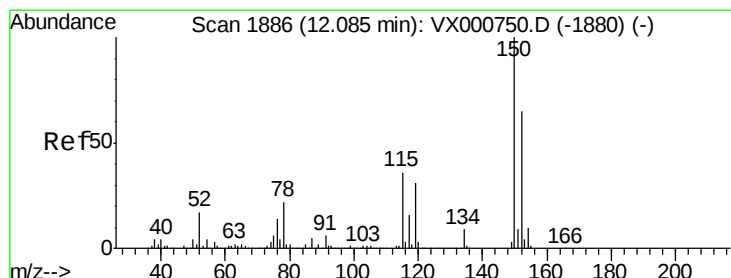
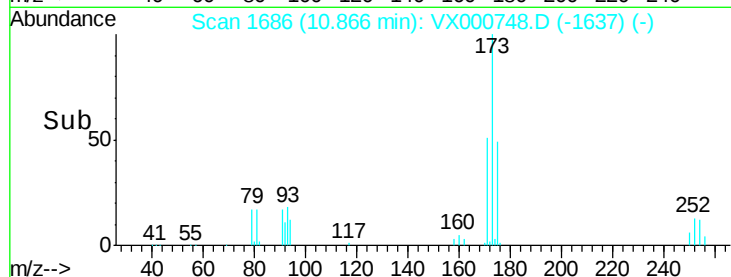
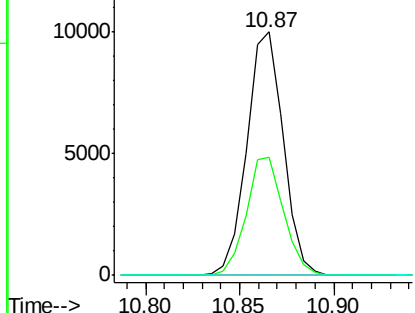
Tot Ion	Ratio	Lower	Upper
173	100		
175	49.5	24.5	73.5
254	0.0	0.2	0.2

Manual Integrations
APPROVED

MMDadoda
4/11/2018 11:20:41 AM

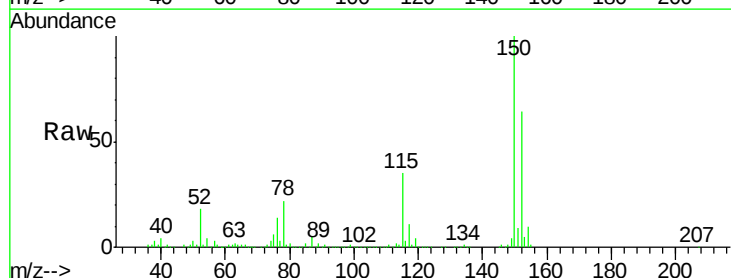


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

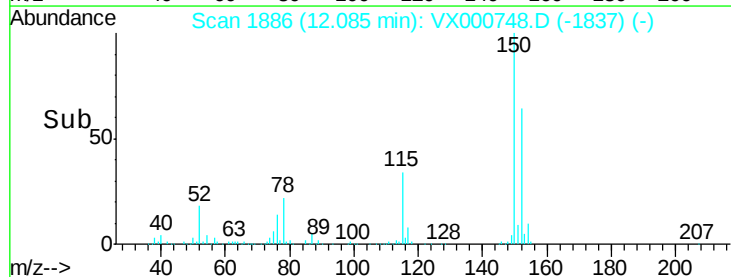
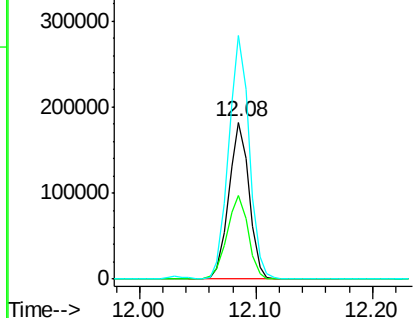


#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX000748.D
Acq: 10 Apr 2018 13:09

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.8	37.9	113.7
150	157.7	0.0	348.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 5.12 ug/l

RT: 11.02 min Scan# 1712

Delta R.T. -0.00 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion:105 Resp: 72040

Ion Ratio Lower Upper

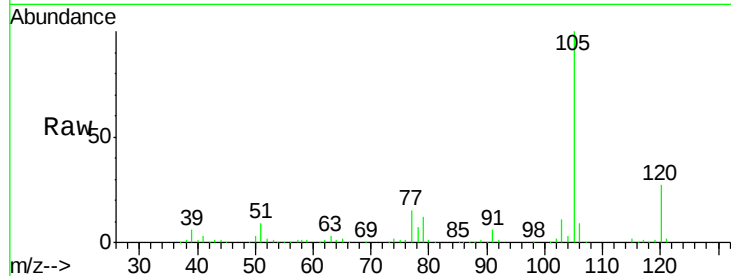
105 100

120 27.2 13.7 41.0

Manual Integrations
APPROVED

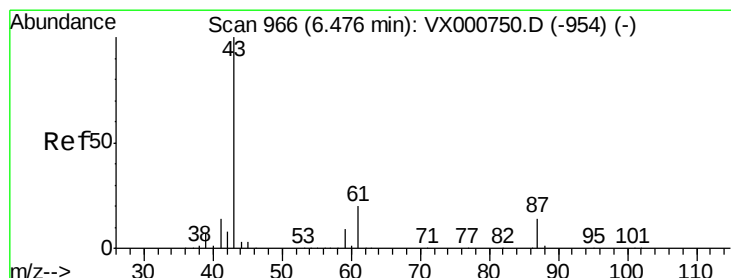
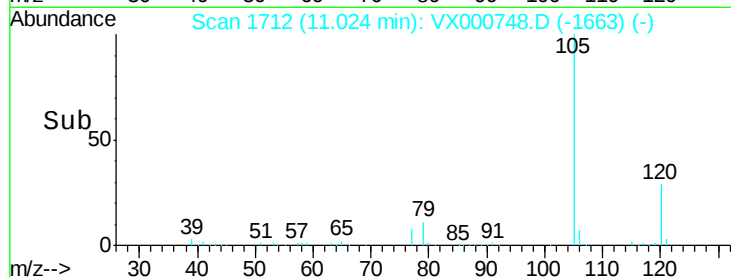
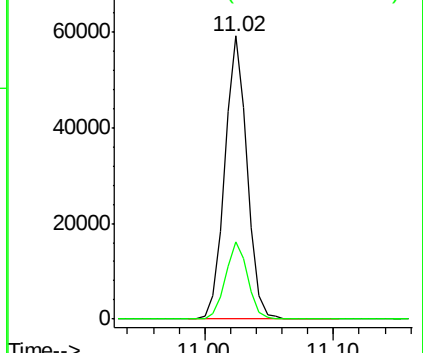
MMDadoda

4/11/2018 11:20:41 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 5.06 ug/l

RT: 6.48 min Scan# 966

Delta R.T. -0.00 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

Tgt Ion: 43 Resp: 31978

Ion Ratio Lower Upper

43 100

70 0.2 0.0 0.0#

55 0.5 0.0 0.0#

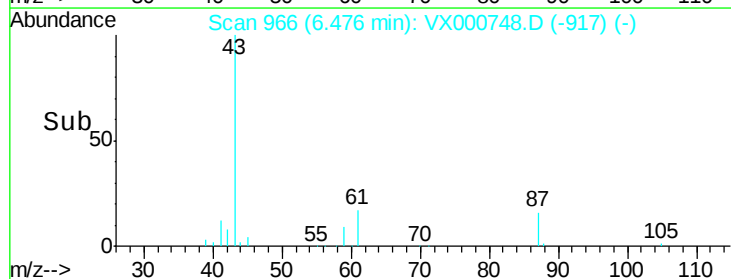
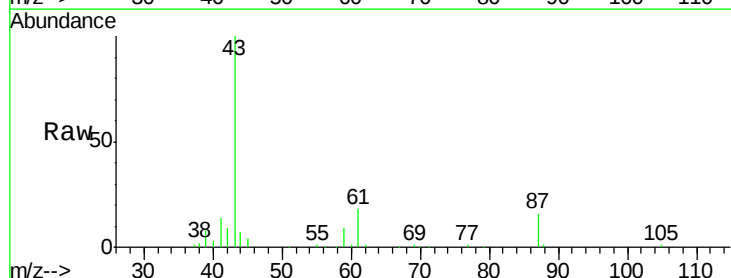
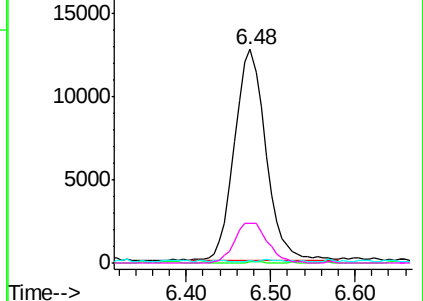
61 19.8 15.6 23.4

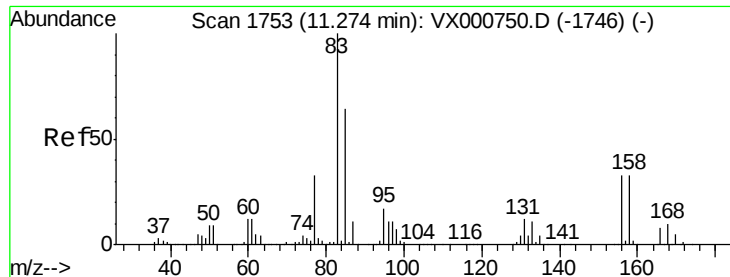
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#75

1,1,2,2-Tetrachloroethane

Concen: 4.94 ug/l

RT: 11.27 min Scan# 1753

Delta R.T. -0.00 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

Instrument :

MSVOA_X

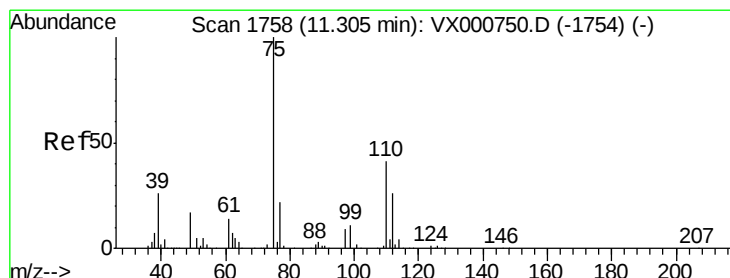
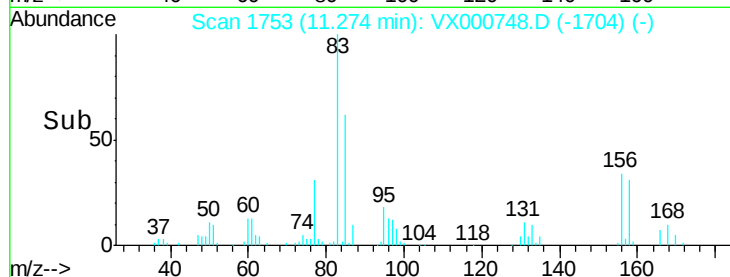
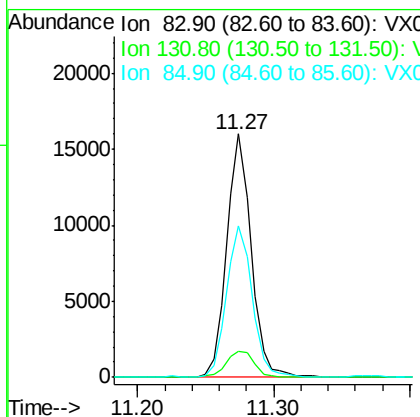
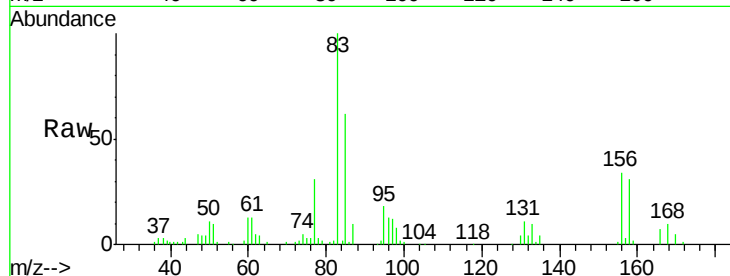
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	20029
Ion Ratio	Lower	Upper	
83	100		
131	12.2	6.0	18.0
85	65.7	32.3	96.8

Manual Integrations
APPROVED

MMDadoda
4/11/2018 11:20:41 AM



#76

1,2,3-Trichloropropane

Concen: 5.02 ug/l m

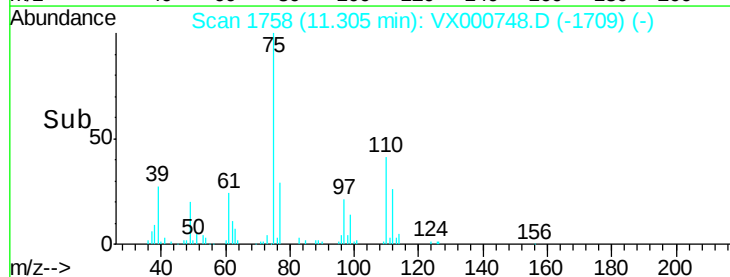
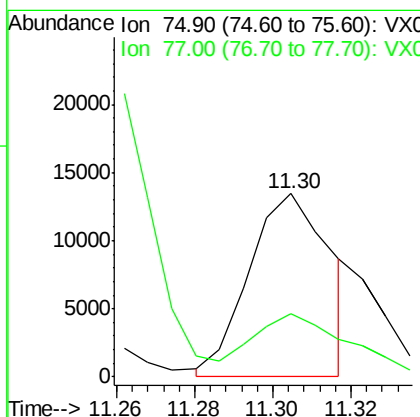
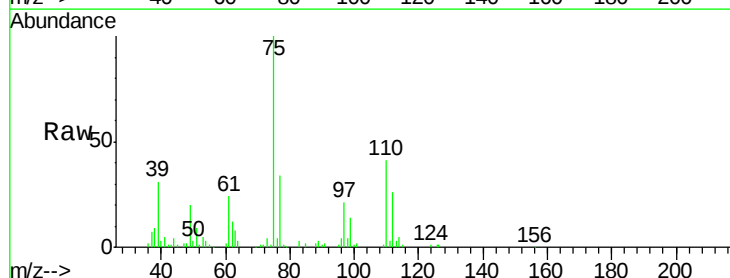
RT: 11.30 min Scan# 1758

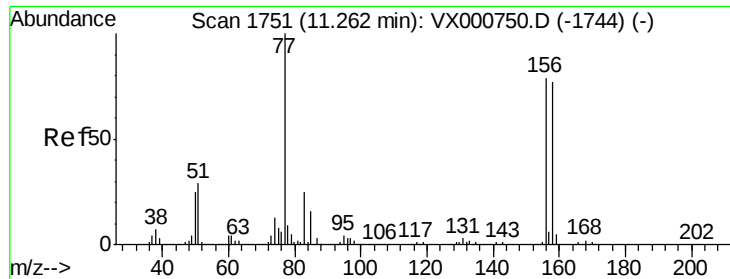
Delta R.T. -0.00 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

Tgt Ion:	75	Resp:	19413
Ion Ratio	Lower	Upper	
75	100		
77	40.8	20.5	61.5





#77

Bromobenzene

Concen: 5.10 ug/l

RT: 11.26 min Scan# 1751

Delta R.T. -0.00 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

Instrument :

MSVOA_X

ClientSampled :

VSTDIC005

Tot Ion:156 Resp: 20704

Ion Ratio Lower Upper

156 100

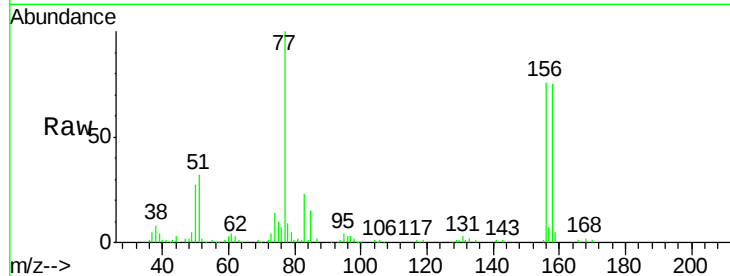
77 134.3 66.0 198.2

158 97.3 48.8 146.4

Manual Integrations
APPROVED

MMDadoda

4/11/2018 11:20:41 AM

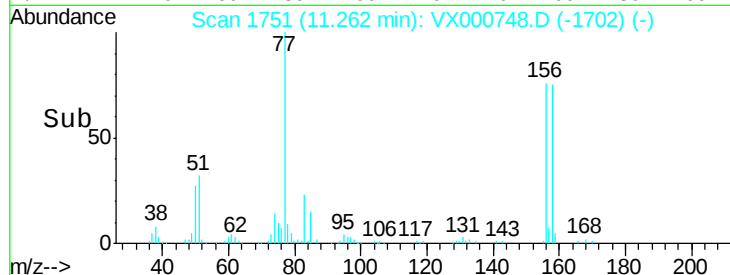


Abundance Ion 155.80 (155.50 to 156.50): V

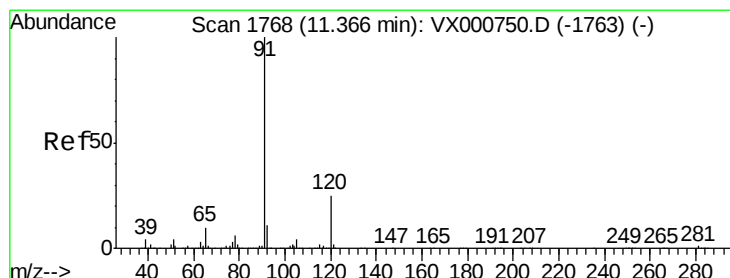
Ion 77.00 (76.70 to 77.70): VX0

Ion 157.80 (157.50 to 158.50): V

Time-->



Time-->



#78

n-propylbenzene

Concen: 5.13 ug/l

RT: 11.37 min Scan# 1768

Delta R.T. -0.00 min

Lab File: VX000748.D

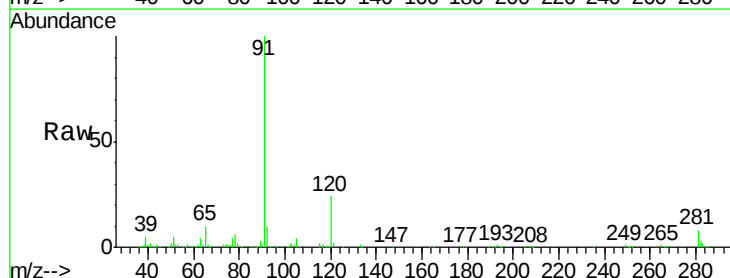
Acq: 10 Apr 2018 13:09

Tgt Ion: 91 Resp: 81459

Ion Ratio Lower Upper

91 100

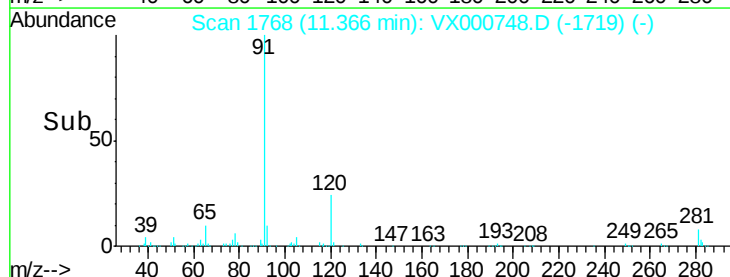
120 24.8 12.6 37.6



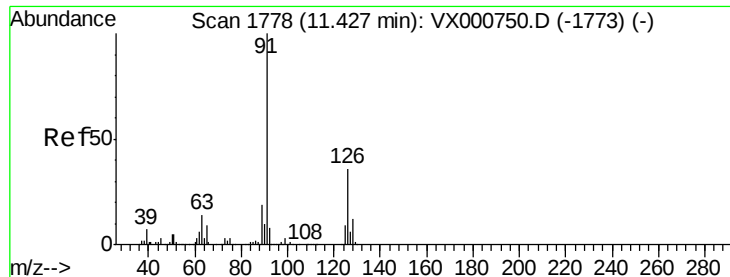
Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V

Time-->



Time-->



#79

2-Chlorotoluene

Concen: 5.11 ug/l

RT: 11.43 min Scan# 1778

Delta R.T. -0.00 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 48166

Ion Ratio Lower Upper

91 100

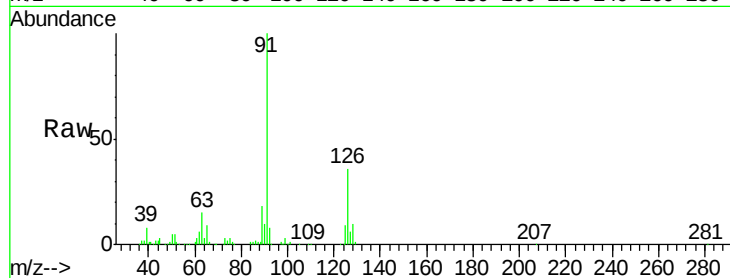
126 36.8 18.3 54.9

Manual Integrations

APPROVED

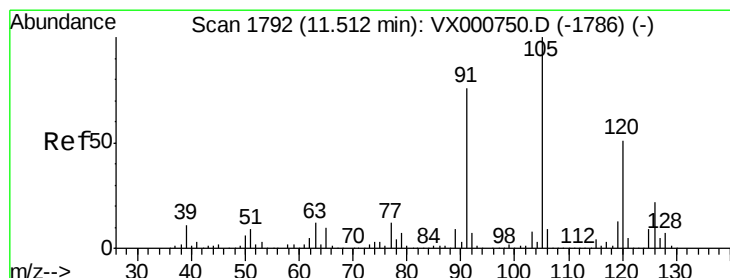
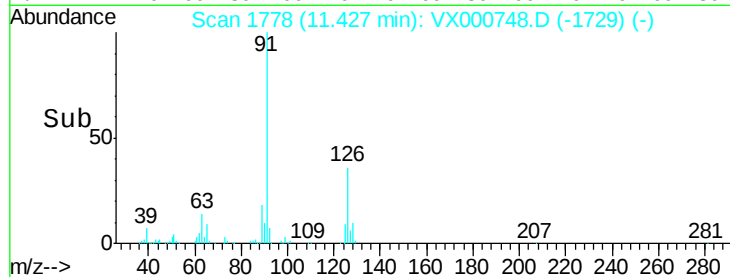
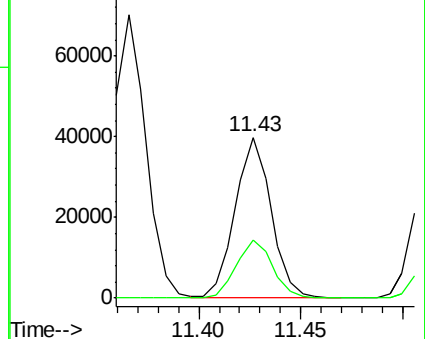
MMDadoda

4/11/2018 11:20:41 AM



Abundance Ion 91.00 (90.70 to 91.70): VX000750.D (-1773) (-)

Ion 125.90 (125.60 to 126.60): VX000750.D (-1773) (-)



#80

1,3,5-Trimethylbenzene

Concen: 5.00 ug/l

RT: 11.51 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX000748.D

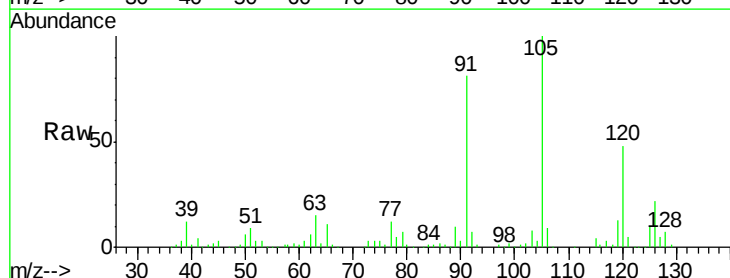
Acq: 10 Apr 2018 13:09

Tgt Ion: 105 Resp: 60338

Ion Ratio Lower Upper

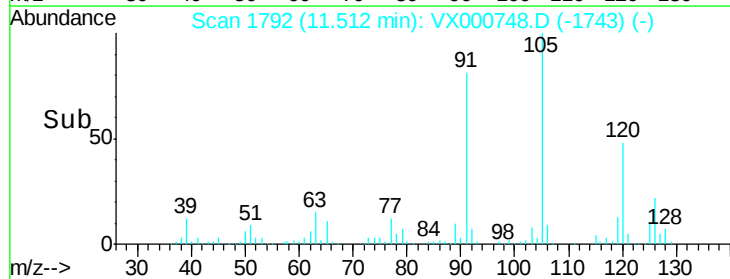
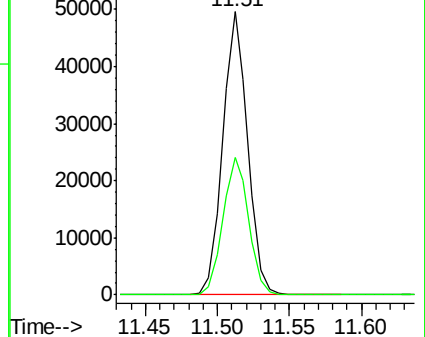
105 100

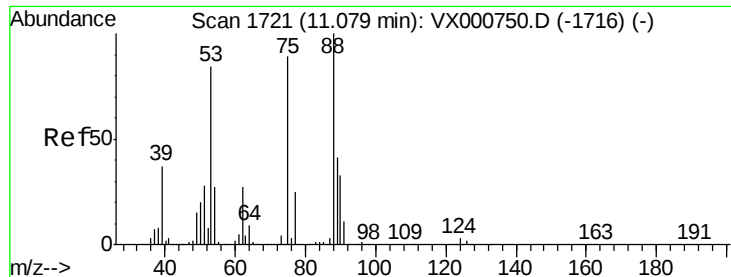
120 50.2 25.0 75.0



Abundance Ion 105.00 (104.70 to 105.70): VX000750.D (-1786) (-)

Ion 120.00 (119.70 to 120.70): VX000750.D (-1786) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 4.75 ug/l

RT: 11.08 min Scan# 1721

Delta R.T. -0.00 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

Instrument :

MSVOA_X

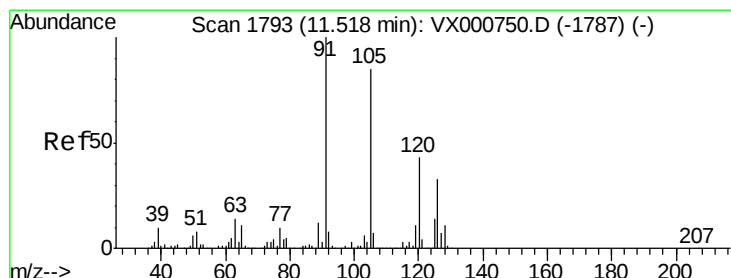
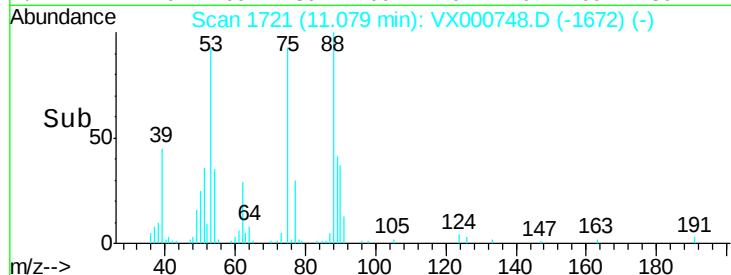
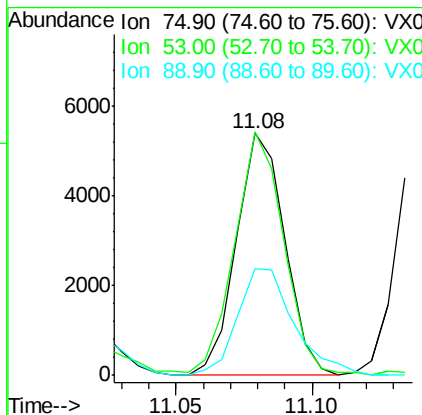
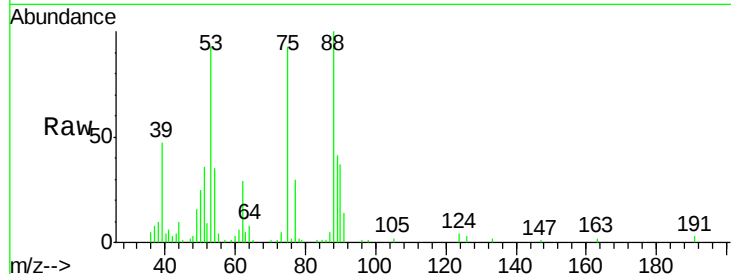
ClientSampleId :

VSTDIC005

Tot Ion:	75	Resp:	6671
Ion	Ratio	Lower	Upper
75	100		
53	101.7	75.4	113.0
89	51.7	40.9	61.3

Manual Integrations
APPROVED

MMDadoda
4/11/2018 11:20:41 AM



#82

4-Chlorotoluene

Concen: 5.23 ug/l

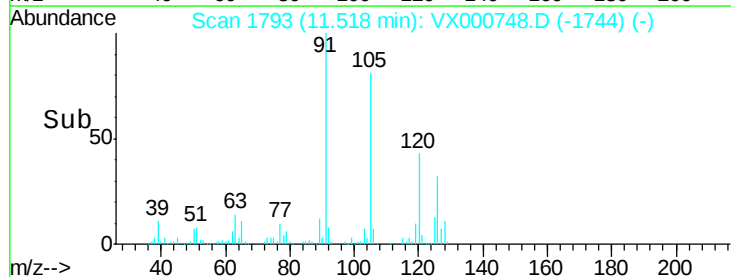
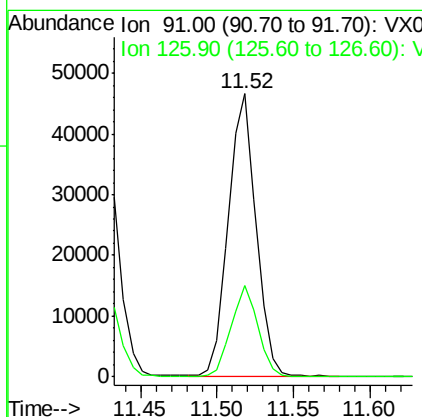
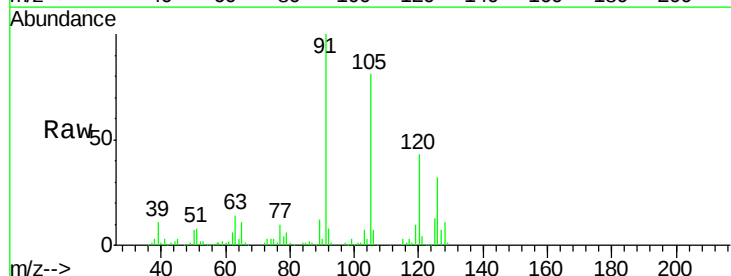
RT: 11.52 min Scan# 1793

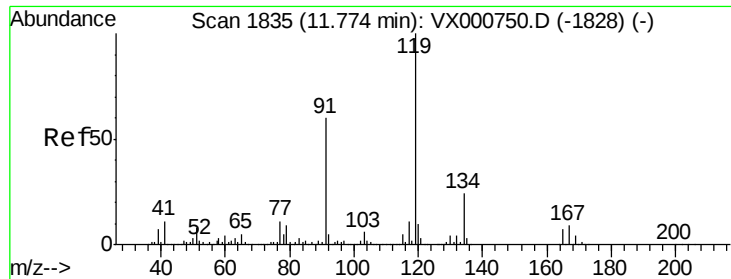
Delta R.T. -0.00 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

Tgt Ion:	91	Resp:	58806
Ion	Ratio	Lower	Upper
91	100		
126	31.3	16.2	48.6





#83

tert-Butylbenzene

Concen: 5.03 ug/l

RT: 11.77 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

Instrument :

MSVOA_X

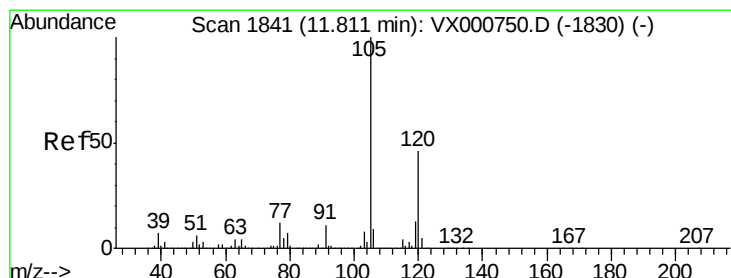
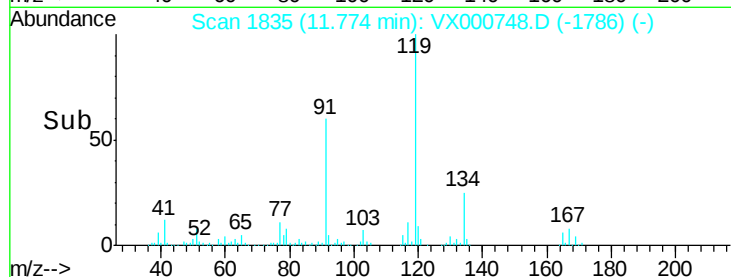
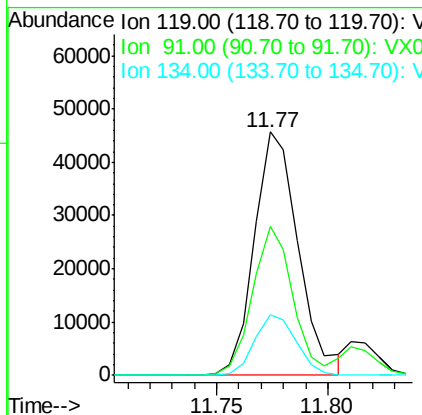
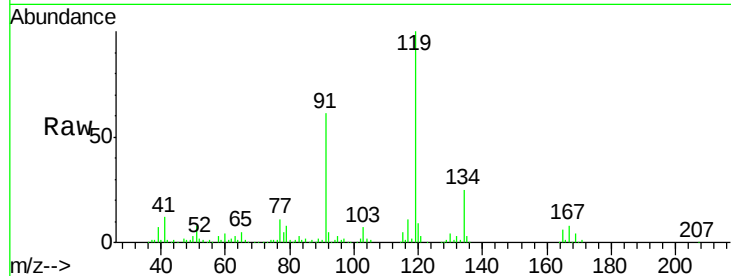
ClientSampleId :

VSTDIC005

Tot Ion:	119	Resp:	62922
Ion Ratio	Lower	Upper	
119	100		
91	56.0	26.8	80.3
134	23.5	11.5	34.4

Manual Integrations
APPROVED

MMDadoda
4/11/2018 11:20:41 AM



#84

1,2,4-Trimethylbenzene

Concen: 5.09 ug/l

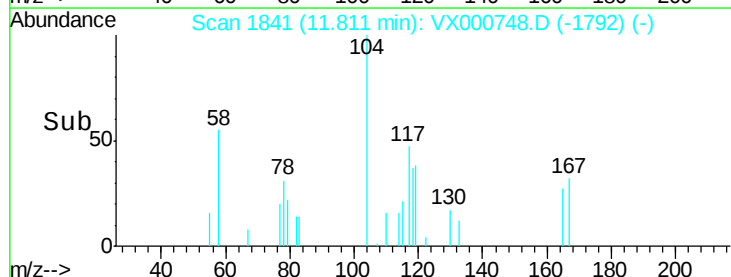
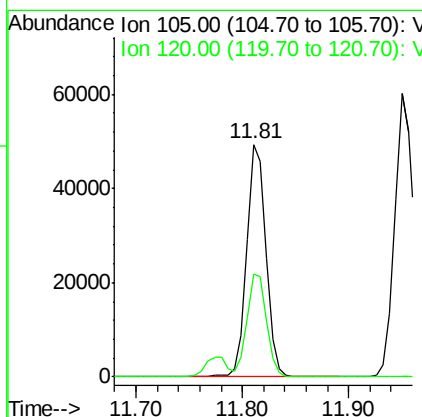
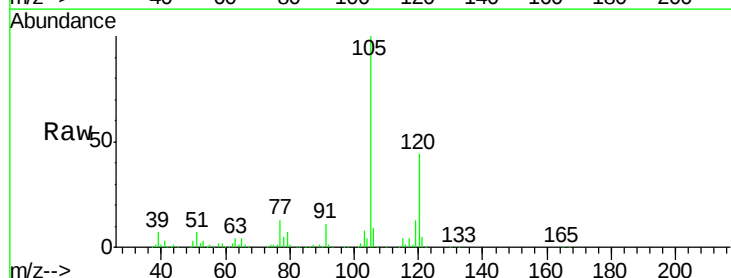
RT: 11.81 min Scan# 1841

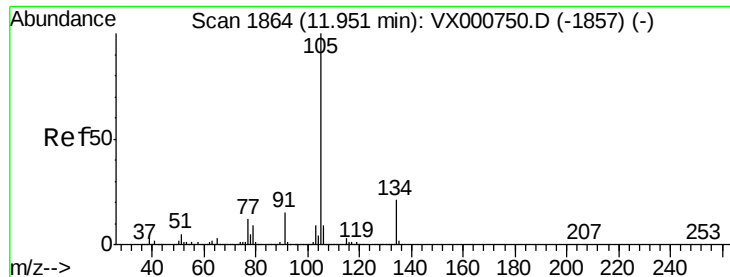
Delta R.T. -0.00 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

Tgt Ion:	105	Resp:	62895
Ion Ratio	Lower	Upper	
105	100		
120	44.8	23.1	69.3





#85

sec-Butylbenzene

Concen: 5.02 ug/l

RT: 11.95 min Scan# 1864

Delta R.T. -0.00 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion:105 Resp: 72980

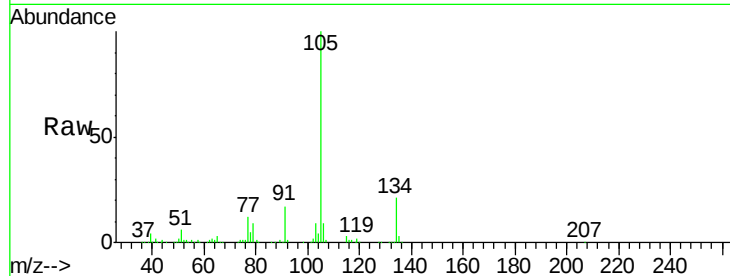
Ion Ratio Lower Upper

105 100

134 21.9 10.8 32.4

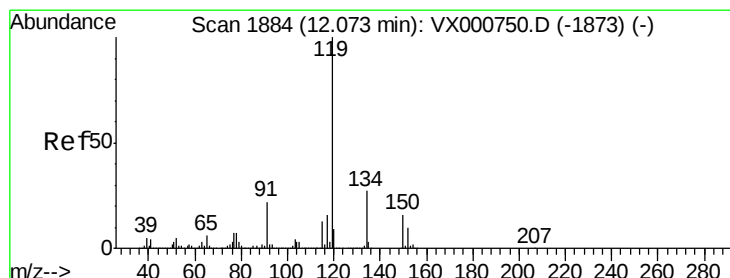
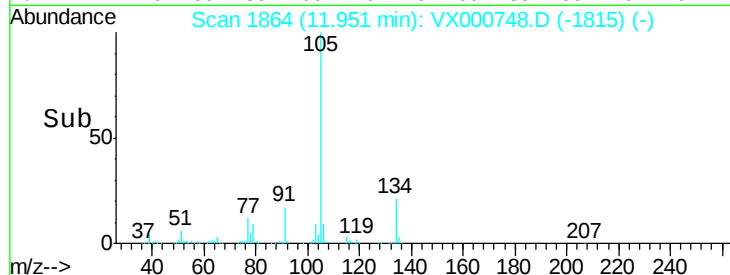
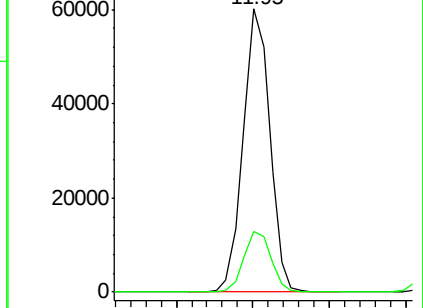
Manual Integrations
APPROVED

MMDadoda
4/11/2018 11:20:41 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 5.05 ug/l

RT: 12.07 min Scan# 1884

Delta R.T. -0.00 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

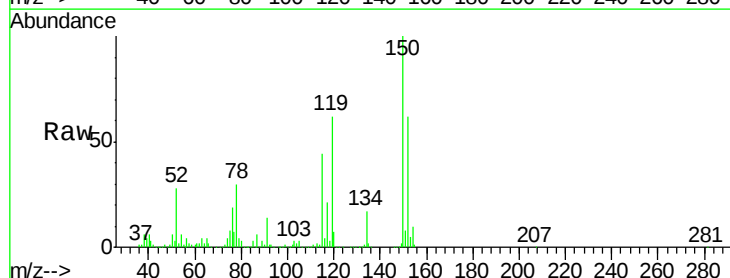
Tgt Ion:119 Resp: 68362

Ion Ratio Lower Upper

119 100

134 27.2 13.6 40.7

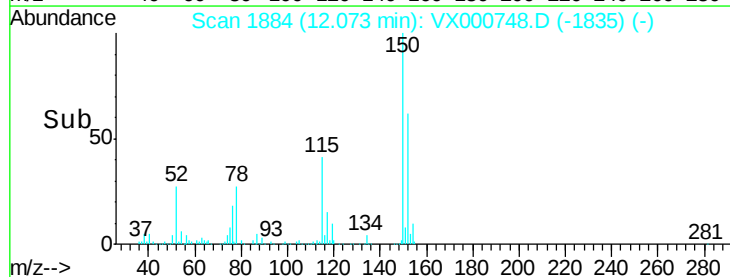
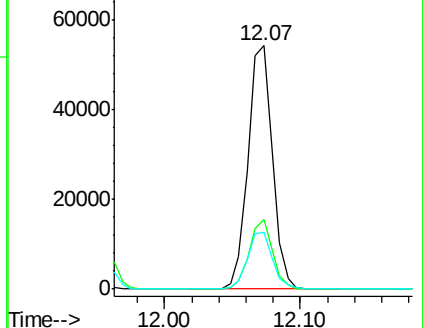
91 24.0 11.2 33.5

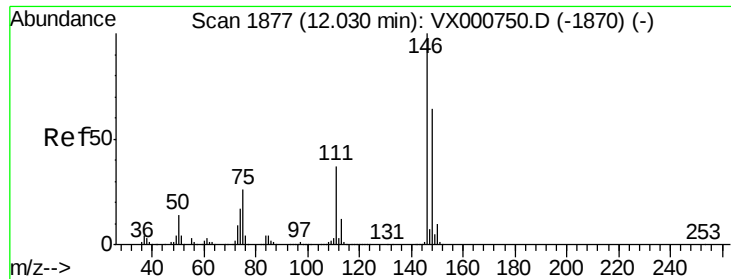


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 5.04 ug/l

RT: 12.03 min Scan# 1877

Delta R.T. -0.00 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion:146 Resp: 37890

Ion Ratio Lower Upper

146 100

111 38.3 18.3 54.8

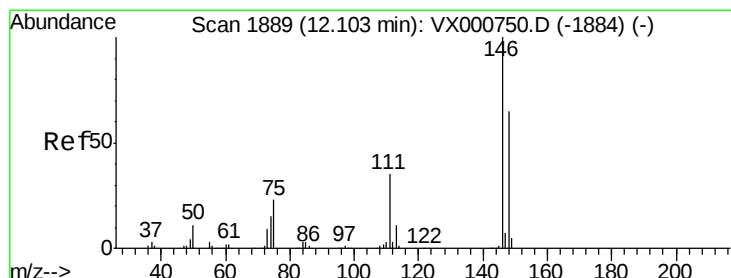
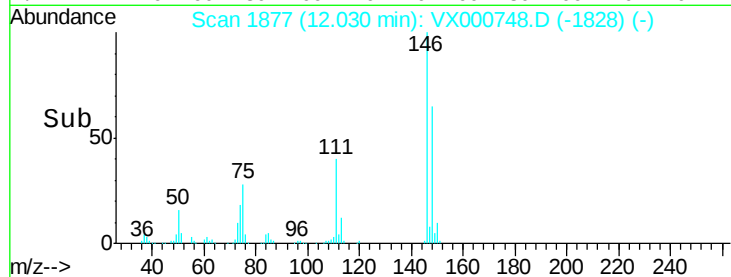
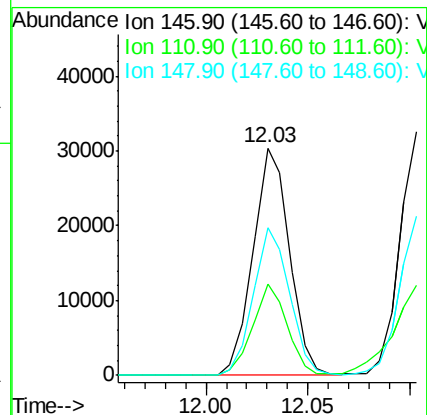
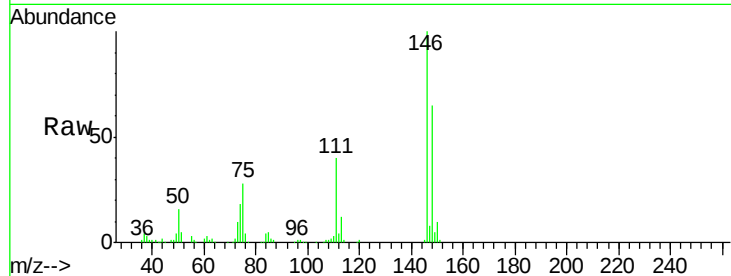
148 64.2 32.2 96.6

Manual Integrations

APPROVED

MMDadoda

4/11/2018 11:20:41 AM



#88

1,4-Dichlorobenzene

Concen: 5.14 ug/l

RT: 12.10 min Scan# 1889

Delta R.T. -0.00 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

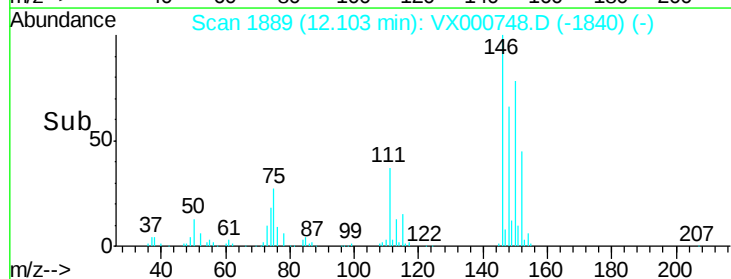
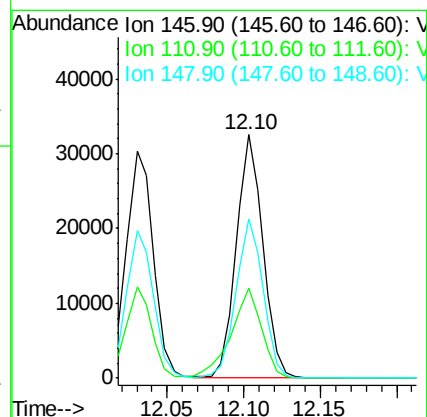
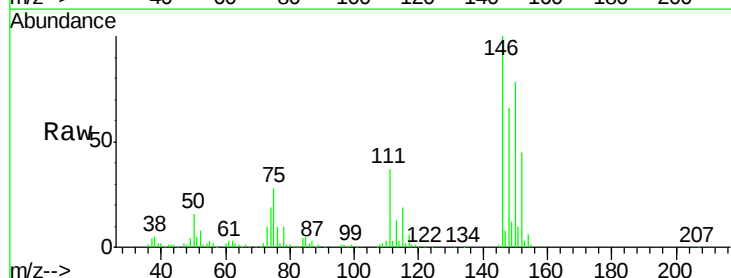
Tgt Ion:146 Resp: 39244

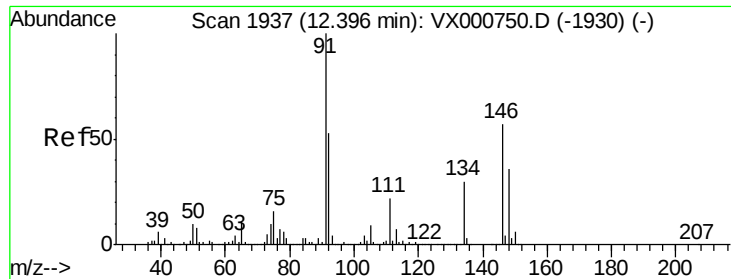
Ion Ratio Lower Upper

146 100

111 42.6 17.9 53.8

148 66.9 32.6 97.7





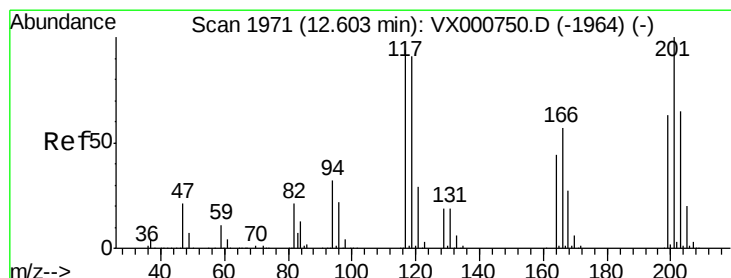
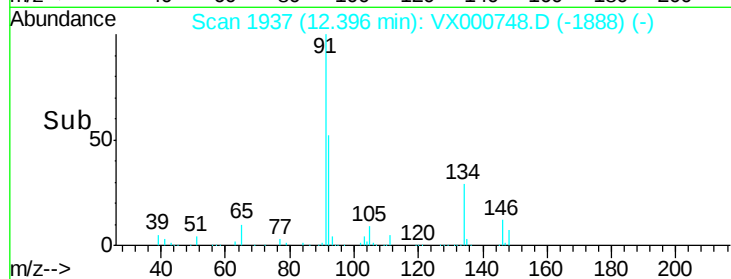
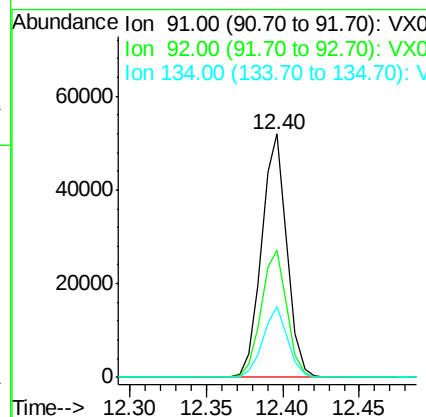
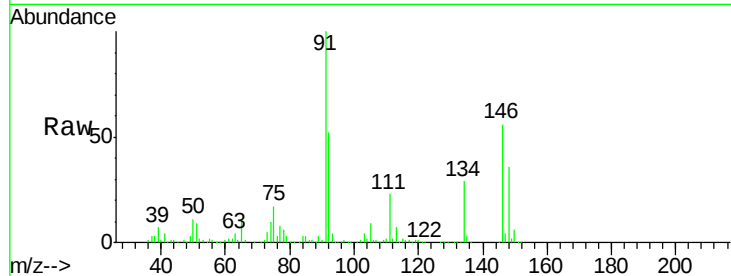
#89
n-Butylbenzene
Concen: 5.01 ug/l
RT: 12.40 min Scan# 1937
Delta R.T. -0.00 min
Lab File: VX000748.D
Acq: 10 Apr 2018 13:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.0	26.5	79.5
134	28.4	14.5	43.5

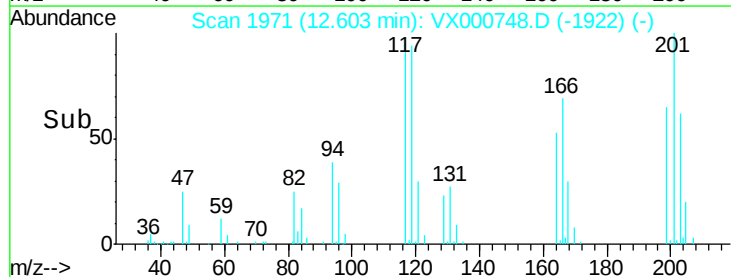
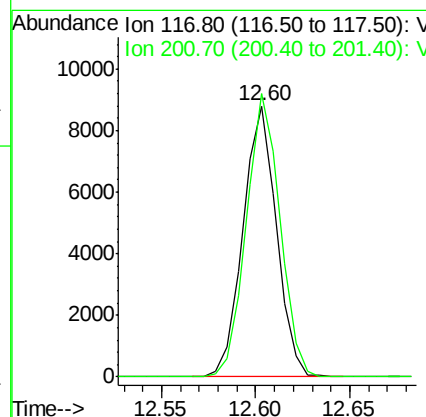
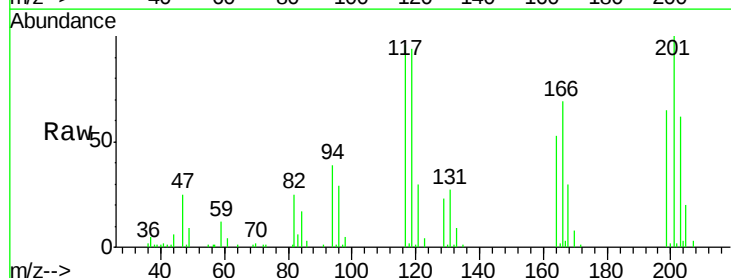
Manual Integrations
APPROVED

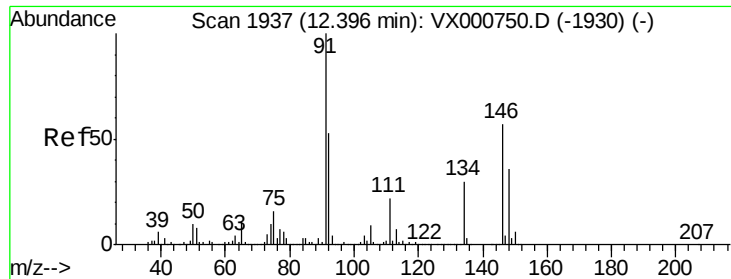
MMDadoda
4/11/2018 11:20:41 AM



#90
Hexachloroethane
Concen: 4.59 ug/l
RT: 12.60 min Scan# 1971
Delta R.T. -0.00 min
Lab File: VX000748.D
Acq: 10 Apr 2018 13:09

Tgt Ion	Ratio	Lower	Upper
117	100		
201	104.6	52.9	158.7





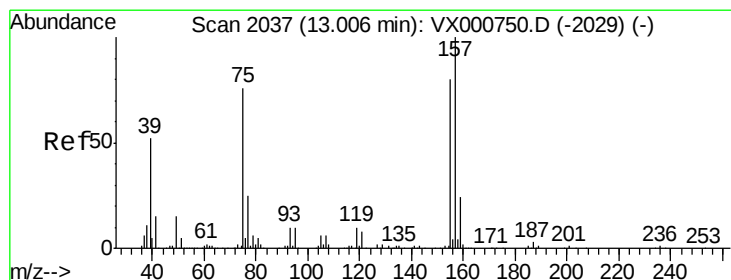
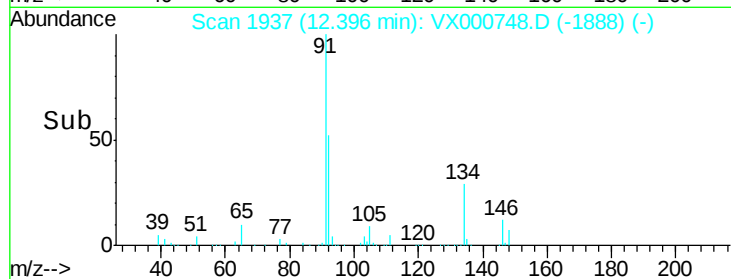
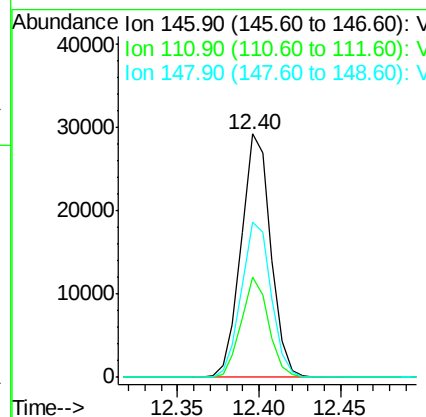
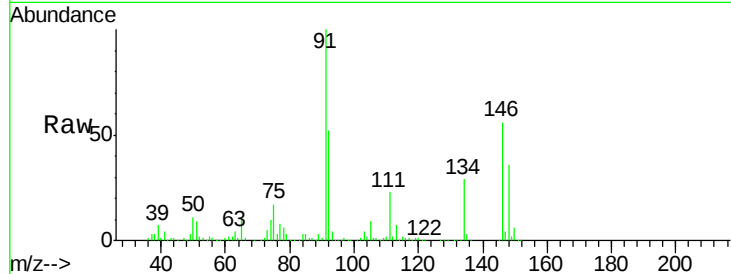
#91
 1,2-Dichlorobenzene
 Concen: 5.05 ug/l
 RT: 12.40 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VX000748.D
 Acq: 10 Apr 2018 13:09

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.3	18.9	56.7
148	64.3	32.0	96.2

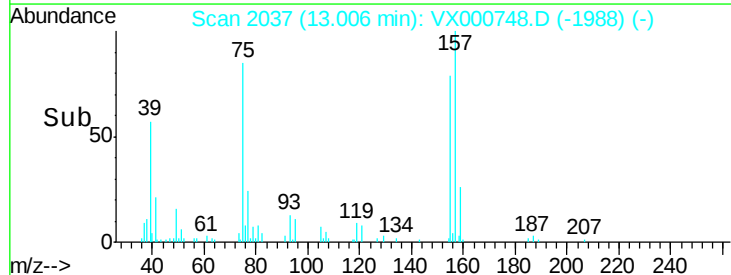
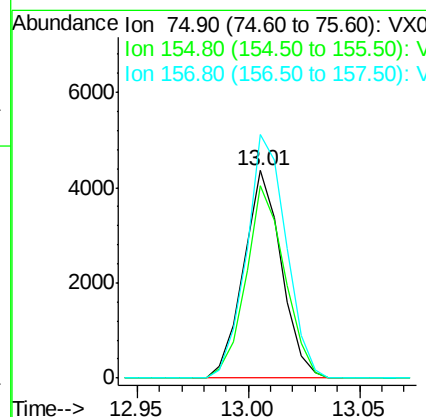
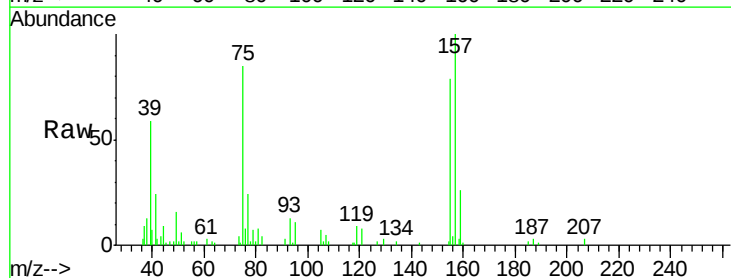
Manual Integrations
 APPROVED

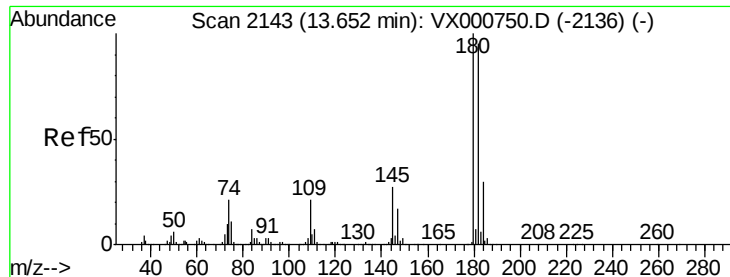
MMDadoda
 4/11/2018 11:20:41 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 5.08 ug/l
 RT: 13.01 min Scan# 2037
 Delta R.T. -0.00 min
 Lab File: VX000748.D
 Acq: 10 Apr 2018 13:09

Tgt Ion	Ratio	Lower	Upper
75	100		
155	95.0	51.9	155.8
157	123.4	66.6	199.8





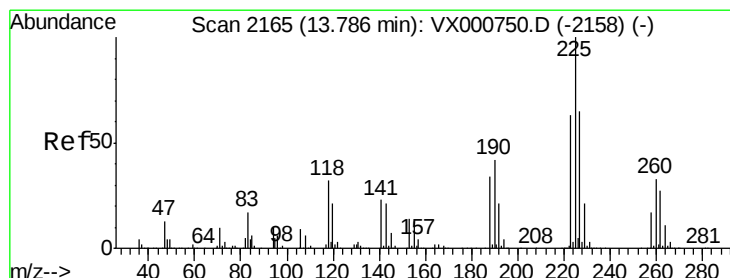
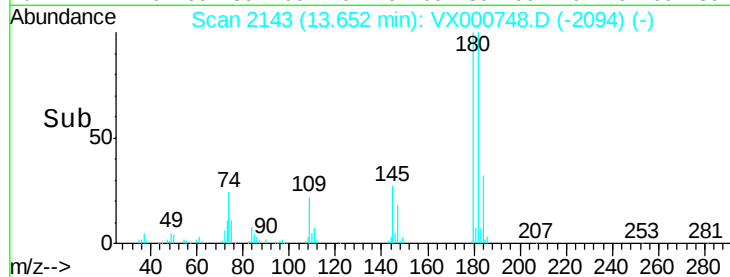
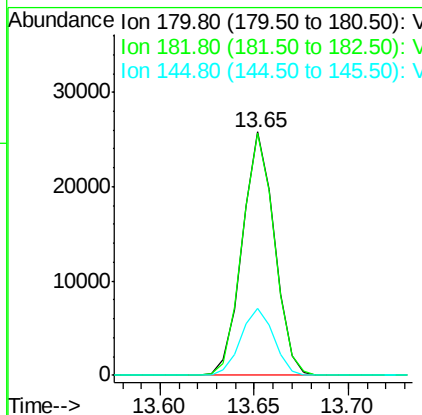
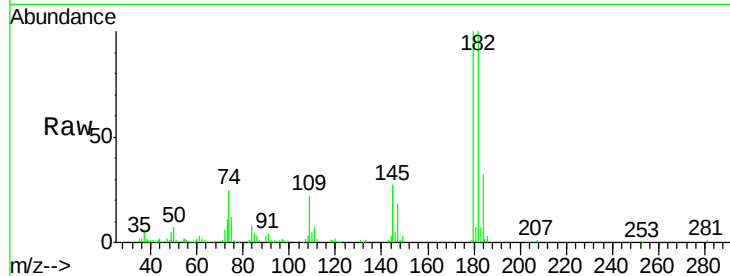
#93
 1,2,4-Trichlorobenzene
 Concen: 4.92 ug/l
 RT: 13.65 min Scan# 2143
 Delta R.T. -0.00 min
 Lab File: VX000748.D
 Acq: 10 Apr 2018 13:09

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	99.4	47.5	142.5	
145	27.9	13.8	41.4	

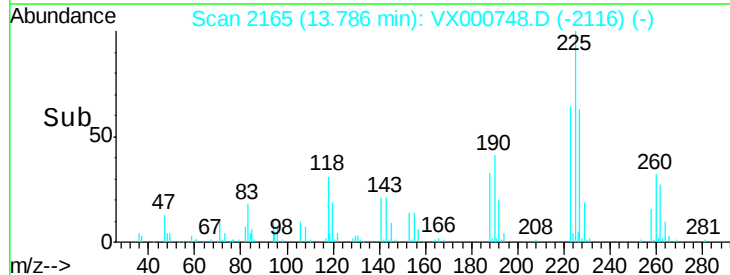
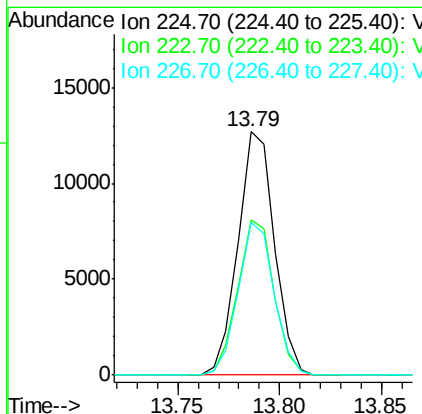
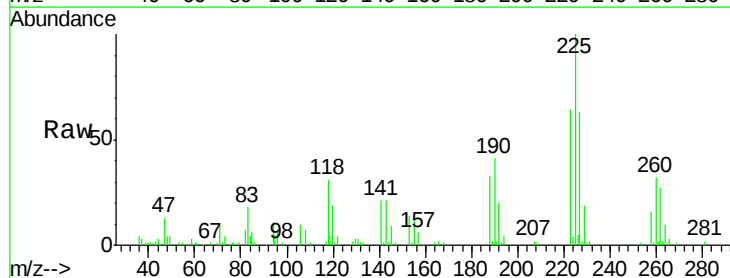
Manual Integrations
 APPROVED

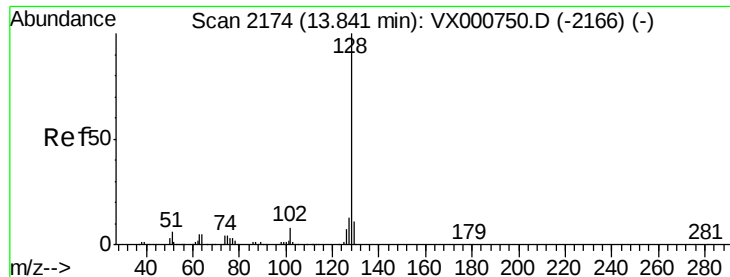
MMDadoda
 4/11/2018 11:20:41 AM



#94
 Hexachlorobutadiene
 Concen: 5.18 ug/l
 RT: 13.79 min Scan# 2165
 Delta R.T. -0.00 min
 Lab File: VX000748.D
 Acq: 10 Apr 2018 13:09

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	63.4	31.2	93.6	
227	61.9	32.3	96.9	





#95

Naphthalene

Concen: 4.91 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. -0.00 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

Instrument :

MSVOA_X

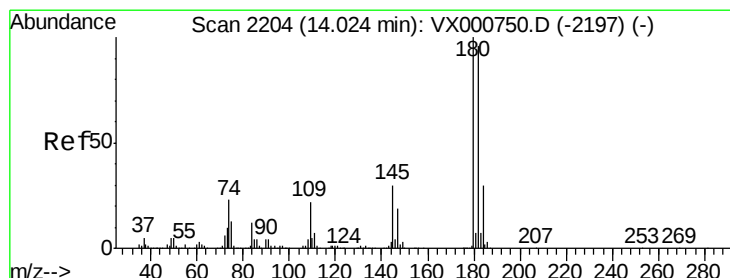
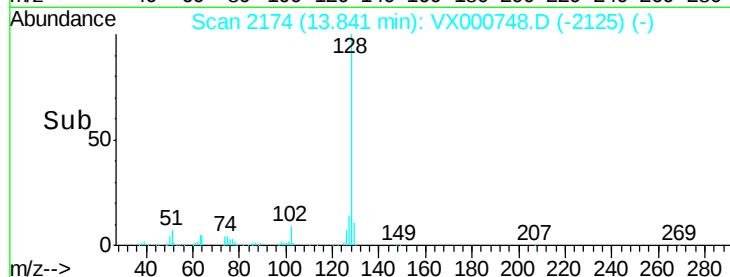
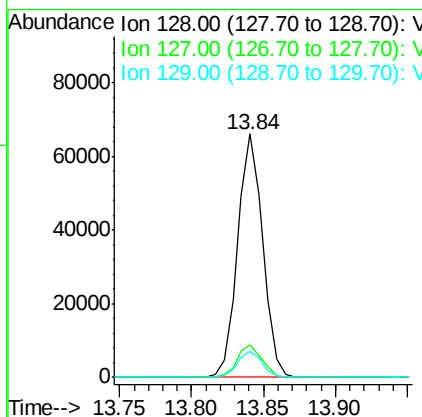
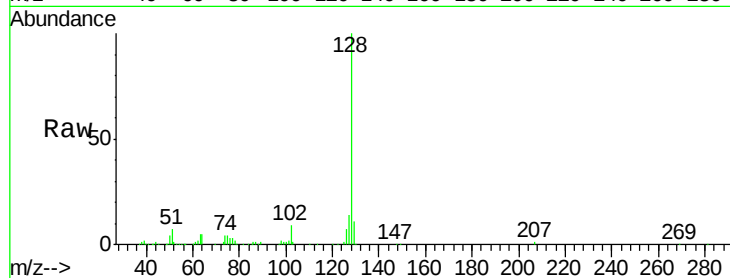
ClientSampleId :

VSTDIC005

Tot Ion:	128	Resp:	79922
Ion Ratio	Lower	Upper	
128	100		
127	13.4	10.4	15.6
129	10.7	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
4/11/2018 11:20:41 AM



#96

1,2,3-Trichlorobenzene

Concen: 5.01 ug/l

RT: 14.02 min Scan# 2204

Delta R.T. -0.00 min

Lab File: VX000748.D

Acq: 10 Apr 2018 13:09

Tgt Ion:	180	Resp:	30274
Ion Ratio	Lower	Upper	
180	100		
182	95.2	48.4	145.2
145	29.5	14.6	43.8

