

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU112818\
 Data File : VU028368.D
 Acq On : 28 Nov 2018 16:07
 Operator : MD/SY
 Sample : VU1128WBS01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1128WBS01

Manual Integrations
 APPROVED

MMDadoda
 11/29/2018 1:23:17 PM

Quant Time: Nov 29 06:44:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U112818W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 29 01:04:49 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	228724	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	417847	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	380114	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	172395	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	197038	51.55	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.10%	
35) Dibromofluoromethane	4.88	113	135592	48.80	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.60%	
50) Toluene-d8	7.56	98	535830	48.22	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.44%	
62) 4-Bromofluorobenzene	10.30	95	192357	48.03	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.06%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.21	85	61870	20.164	ug/l	99
3) Chloromethane	1.33	50	119901	20.160	ug/l	100
4) Vinyl Chloride	1.40	62	83404	20.044	ug/l	100
5) Bromomethane	1.61	94	29490	18.324	ug/l	97
6) Chloroethane	1.69	64	48794	20.378	ug/l	95
7) Trichlorofluoromethane	1.88	101	87947	20.347	ug/l	96
8) Diethyl Ether	2.10	74	39622	19.720	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	2.28	101	50126	19.908	ug/l	99
10) Methyl Iodide	2.41	142	52981	22.314	ug/l	99
11) Tert butyl alcohol	2.83	59	85774	98.771	ug/l	98
12) 1,1-Dichloroethene	2.28	96	49594	20.297	ug/l	97
13) Acrolein	2.19	56	73222	94.843	ug/l	96
14) Allyl chloride	2.59	41	125363	19.637	ug/l	98
15) Acrylonitrile	2.94	53	246391	107.260	ug/l	99
16) Acetone	2.32	43	213908	91.478	ug/l	100
17) Carbon Disulfide	2.48	76	182790	19.490	ug/l	98
18) Methyl Acetate	2.61	43	135447	20.804	ug/l	100
19) Methyl tert-butyl Ether	3.00	73	206272	20.591	ug/l	99
20) Methylene Chloride	2.70	84	66221	20.034	ug/l	97
21) trans-1,2-Dichloroethene	2.98	96	57672	20.352	ug/l	96
22) Diisopropyl ether	3.57	45	257960	20.524	ug/l	98
23) Vinyl Acetate	3.52	43	1080292	103.403	ug/l	99
24) 1,1-Dichloroethane	3.44	63	128282	20.701	ug/l	99
25) 2-Butanone	4.26	43	343447	102.484	ug/l	100
26) 2,2-Dichloropropane	4.22	77	95169	19.338	ug/l	100
27) cis-1,2-Dichloroethene	4.22	96	65553	19.560	ug/l	99
28) Bromochloromethane	4.55	49	67229	21.697	ug/l	99
29) Tetrahydrofuran	4.64	42	235261	108.124	ug/l	99
30) Chloroform	4.67	83	115427	20.180	ug/l	99
31) Cyclohexane	4.99	56	132919	20.668	ug/l	97
32) 1,1,1-Trichloroethane	4.91	97	94205	20.525	ug/l	99
36) 1,1-Dichloropropene	5.13	75	85055	18.602	ug/l	97
37) Ethyl Acetate	4.38	43	128301	20.590	ug/l	98
38) Carbon Tetrachloride	5.13	117	71770	19.114	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU112818\
 Data File : VU028368.D
 Acq On : 28 Nov 2018 16:07
 Operator : MD/SY
 Sample : VU1128WBS01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1128WBS01

Manual Integrations
 APPROVED

MMDadoda
 11/29/2018 1:23:17 PM

Quant Time: Nov 29 06:44:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U112818W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 29 01:04:49 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.41	83	102983	19.103	ug/l	98
40) Benzene	5.39	78	271164	20.023	ug/l	100
41) Methacrylonitrile	4.54	41	72921	21.073	ug/l	98
42) 1,2-Dichloroethane	5.40	62	96520	19.784	ug/l	99
43) Isopropyl Acetate	5.55	43	205356	20.797	ug/l	100
44) Trichloroethene	6.19	130	56813	19.571	ug/l	98
45) 1,2-Dichloropropane	6.43	63	79309	19.998	ug/l	99
46) Dibromomethane	6.56	93	45383	19.923	ug/l	99
47) Bromodichloromethane	6.76	83	86832	19.164	ug/l	99
48) Methyl methacrylate	6.62	41	102555	19.939	ug/l	99
49) 1,4-Dioxane	6.61	88	31128	378.829	ug/l	98
51) 4-Methyl-2-Pentanone	7.46	43	642179	101.827	ug/l	99
52) Toluene	7.64	92	158166	20.282	ug/l	99
53) t-1,3-Dichloropropene	7.88	75	102718	18.959	ug/l	99
54) cis-1,3-Dichloropropene	7.27	75	111476	19.206	ug/l	98
55) 1,1,2-Trichloroethane	8.07	97	63433	19.544	ug/l	98
56) Ethyl methacrylate	8.02	69	109485	19.829	ug/l	97
57) 1,3-Dichloropropane	8.24	76	116369	19.552	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.13	63	294651	99.397	ug/l	100
59) 2-Hexanone	8.36	43	488647	100.029	ug/l	100
60) Dibromochloromethane	8.48	129	58167	18.844	ug/l	99
61) 1,2-Dibromoethane	8.58	107	66261	19.933	ug/l	98
64) Tetrachloroethene	8.22	164	48259	19.301	ug/l	98
65) Chlorobenzene	9.12	112	156558	19.836	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.21	131	53538	19.789	ug/l	99
67) Ethyl Benzene	9.25	91	296857	19.970	ug/l	98
68) m/p-Xylenes	9.37	106	215703	40.314	ug/l	99
69) o-Xylene	9.78	106	105086	19.757	ug/l	98
70) Styrene	9.79	104	171627	20.007	ug/l	100
71) Bromoform	9.96	173	43625	19.184	ug/l #	98
73) Isopropylbenzene	10.16	105	276633	20.632	ug/l	98
74) N-amyl acetate	10.01	43	176808	21.047	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.46	83	114575	20.780	ug/l	99
76) 1,2,3-Trichloropropane	10.49	75	100846m	21.095	ug/l	
77) Bromobenzene	10.45	156	62132	19.666	ug/l	97
78) n-propylbenzene	10.58	91	341951	20.674	ug/l	99
79) 2-Chlorotoluene	10.66	91	201919	20.708	ug/l	99
80) 1,3,5-Trimethylbenzene	10.77	105	230351	20.387	ug/l	99
81) trans-1,4-Dichloro-2-buten	10.51	75	34495m	19.154	ug/l	
82) 4-Chlorotoluene	10.77	91	228611	20.349	ug/l	100
83) tert-Butylbenzene	11.10	119	222354	21.111	ug/l	99
84) 1,2,4-Trimethylbenzene	11.15	105	237577	20.759	ug/l	98
85) sec-Butylbenzene	11.32	105	281898	20.606	ug/l	100
86) p-Isopropyltoluene	11.48	119	232363	20.657	ug/l	100
87) 1,3-Dichlorobenzene	11.41	146	112805	19.576	ug/l	98
88) 1,4-Dichlorobenzene	11.51	146	111344	19.200	ug/l	95
89) n-Butylbenzene	11.89	91	219328	19.756	ug/l	99
90) Hexachloroethane	12.14	117	34313	19.538	ug/l	99
91) 1,2-Dichlorobenzene	11.88	146	117291	20.402	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.66	75	26021	21.217	ug/l	96

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU112818\
Data File : VU028368.D
Acq On : 28 Nov 2018 16:07
Operator : MD/SY
Sample : VU1128WBS01
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VU1128WBS01

Manual Integrations
APPROVED

MMDadoda
11/29/2018 1:23:17 PM

Quant Time: Nov 29 06:44:55 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U112818W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 29 01:04:49 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.50	180	72147	19.172	ug/l	99
94) Hexachlorobutadiene	13.69	225	34496	19.413	ug/l	95
95) Naphthalene	13.74	128	271942	20.515	ug/l	99
96) 1,2,3-Trichlorobenzene	13.99	180	76847	20.191	ug/l	99

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

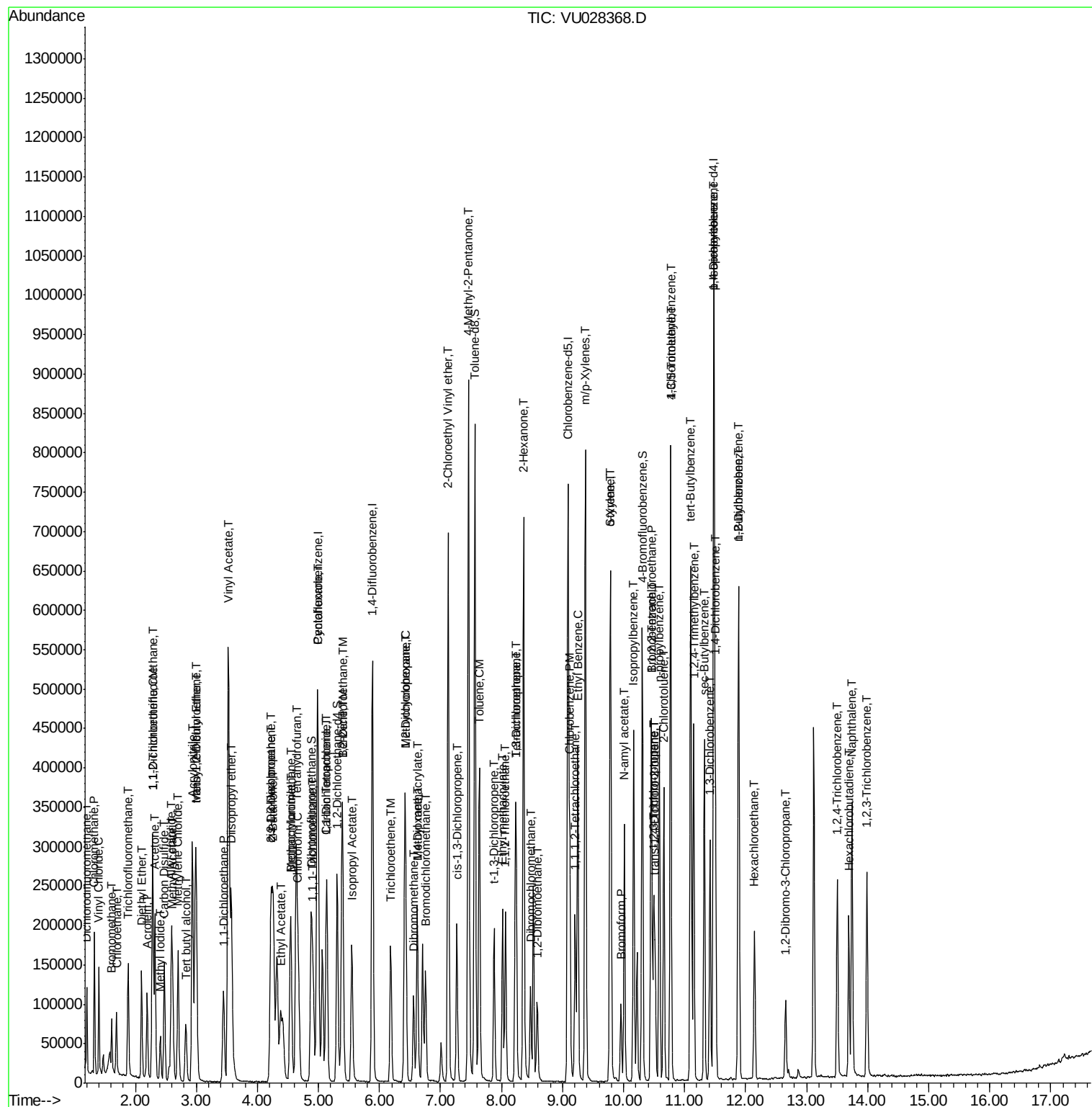
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU112818\
 Data File : VU028368.D
 Acq On : 28 Nov 2018 16:07
 Operator : MD/SY
 Sample : VU1128WBS01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 18 Sample Multiplier: 1

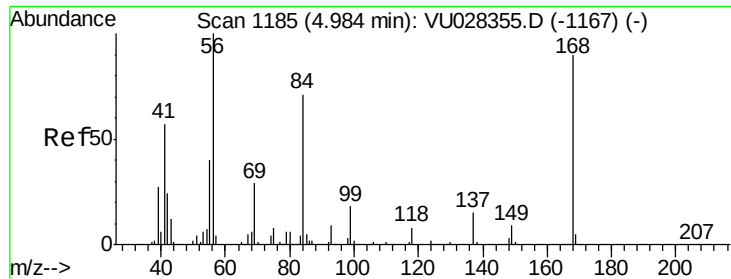
Instrument :
 MSVOA_U
 ClientSampled :
 VU1128WBS01

Manual Integrations
 APPROVED

MMDadoda
 11/29/2018 1:23:17 PM

Quant Time: Nov 29 06:44:55 2018
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U112818W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 29 01:04:49 2018
 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. -0.00 min

Lab File: VU028368.D

Acq: 28 Nov 2018 16:07

Instrument :

MSVOA_U

ClientSampleId :

VU1128WBS01

Tot Ion:168 Resp: 228724

Ion Ratio Lower Upper

168 100

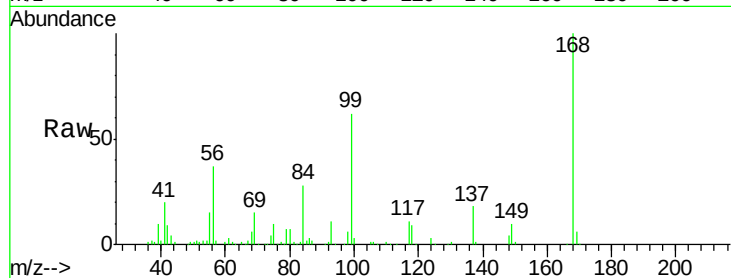
99 62.0 49.6 74.4

Manual Integrations

APPROVED

MMDadoda

11/29/2018 1:23:17 PM



Abundance Ion 167.90 (167.60 to 168.60): VU028355.D (-1167) (-)

Ion 98.90 (98.60 to 99.60): VU028355.D (-1167) (-)

120000

100000

80000

60000

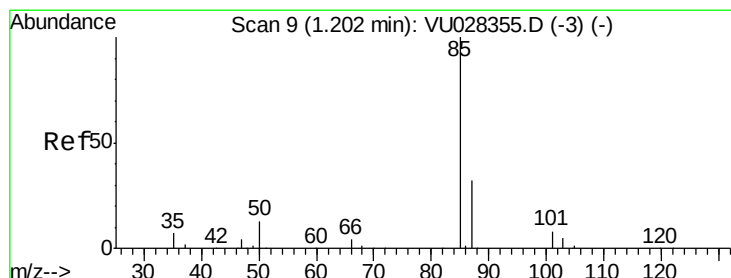
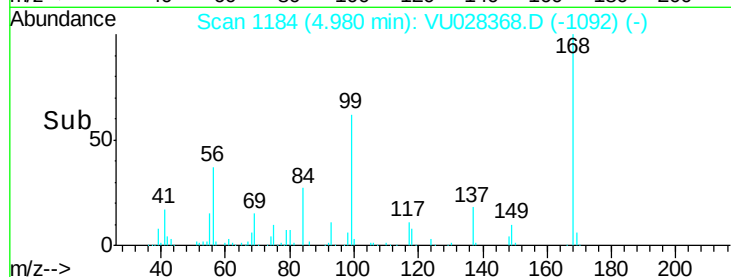
40000

20000

0

4.90 4.95 5.00 5.05

Time-->



#2

Dichlorodifluoromethane

Concen: 20.164 ug/l

RT: 1.21 min Scan# 10

Delta R.T. 0.00 min

Lab File: VU028368.D

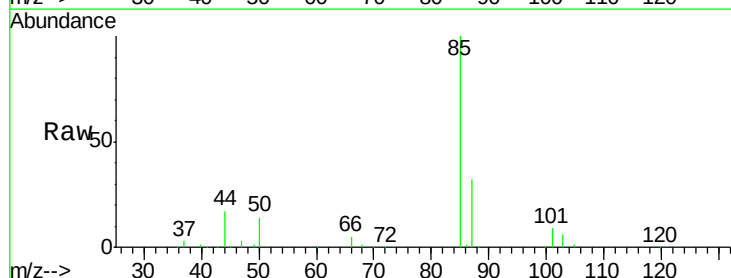
Acq: 28 Nov 2018 16:07

Tgt Ion: 85 Resp: 61870

Ion Ratio Lower Upper

85 100

87 32.1 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VU028355.D (-3) (-)

Ion 86.90 (86.60 to 87.60): VU028355.D (-3) (-)

60000

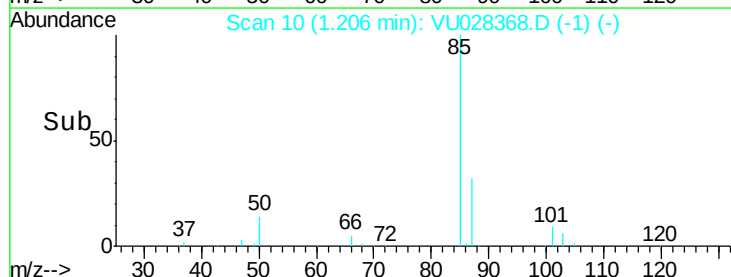
40000

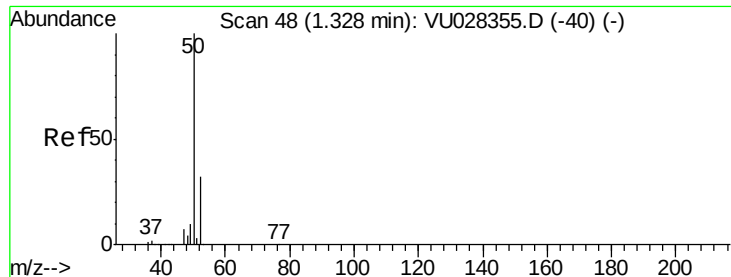
20000

0

1.15 1.20 1.25

Time-->





#3

Chloromethane

Concen: 20.160 ug/l

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU028368.D

Acq: 28 Nov 2018 16:07

Instrument :

MSVOA_U

ClientSampleId :

VU1128WBS01

Tot Ion: 50 Resp: 119901

Ion Ratio Lower Upper

50 100

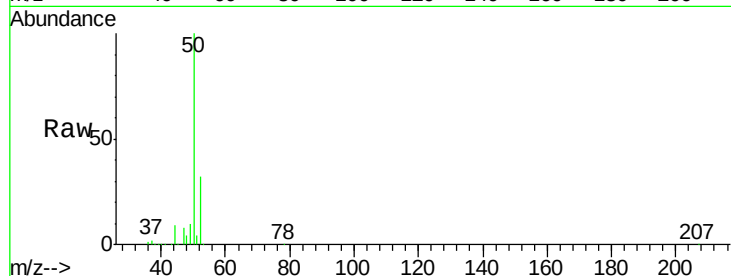
52 31.9 25.4 38.2

Manual Integrations

APPROVED

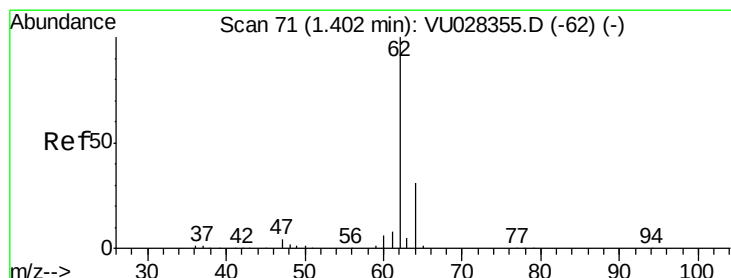
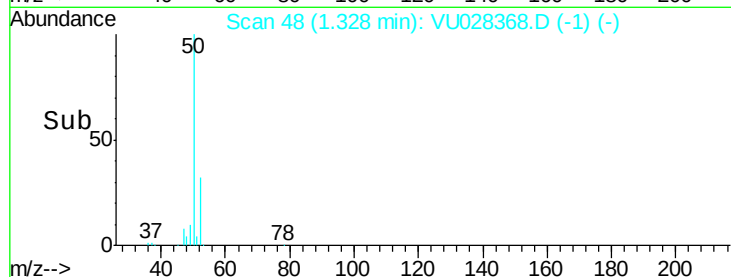
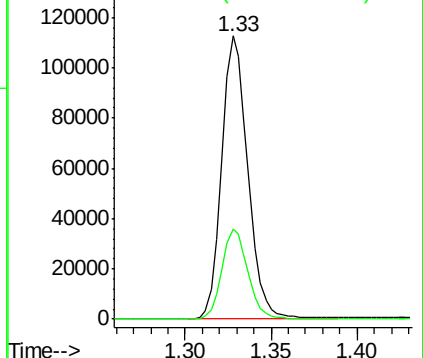
MMDadoda

11/29/2018 1:23:17 PM



Abundance Ion 49.90 (49.60 to 50.60): VU0

Ion 51.90 (51.60 to 52.60): VU0



#4

Vinyl Chloride

Concen: 20.044 ug/l

RT: 1.40 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU028368.D

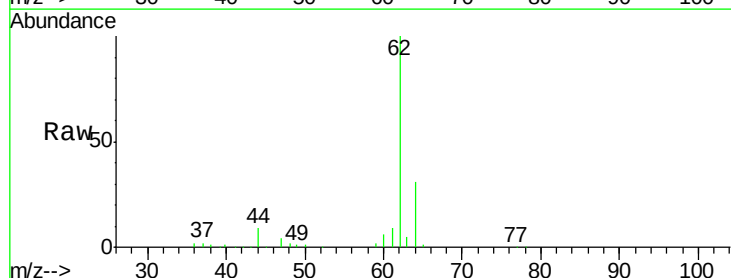
Acq: 28 Nov 2018 16:07

Tgt Ion: 62 Resp: 83404

Ion Ratio Lower Upper

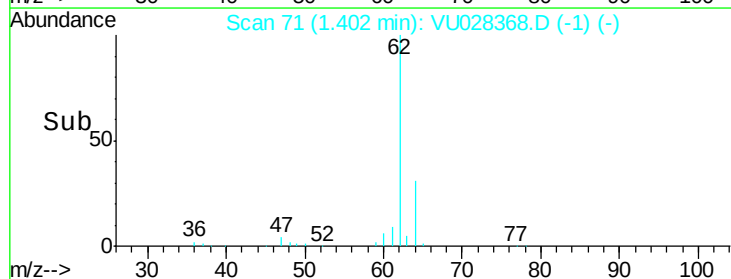
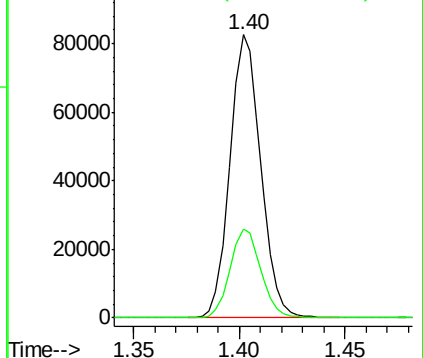
62 100

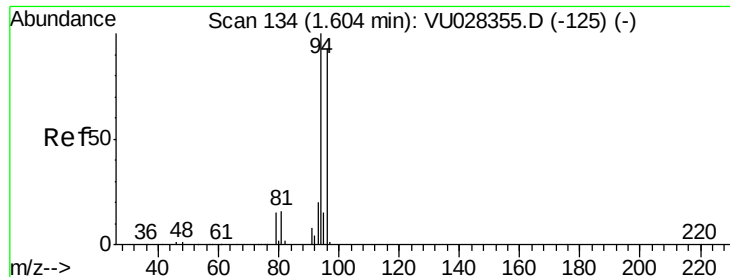
64 31.4 25.0 37.4



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0





#5

Bromomethane

Concen: 18.324 ug/l

RT: 1.61 min Scan# 136

Delta R.T. 0.01 min

Lab File: VU028368.D

Acq: 28 Nov 2018 16:07

Instrument :

MSVOA_U

ClientSampleId :

VU1128WBS01

Tot Ion: 94 Resp: 29490

Ion Ratio Lower Upper

94 100

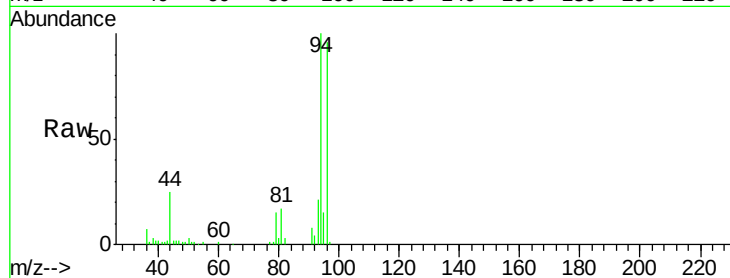
96 95.9 74.6 112.0

Manual Integrations

APPROVED

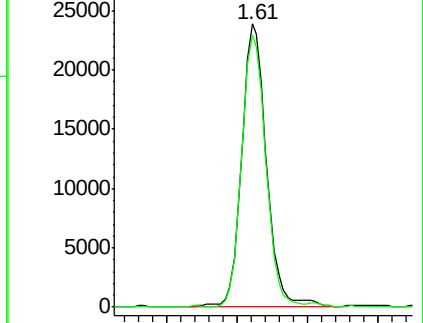
MMDadoda

11/29/2018 1:23:17 PM

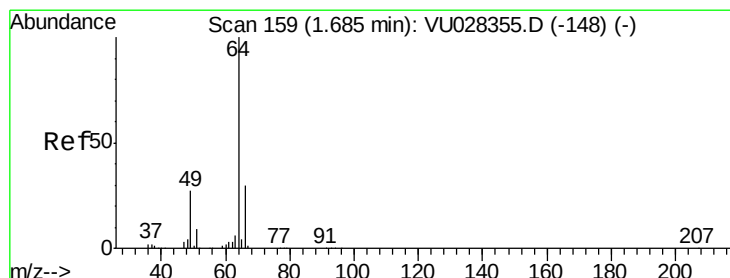
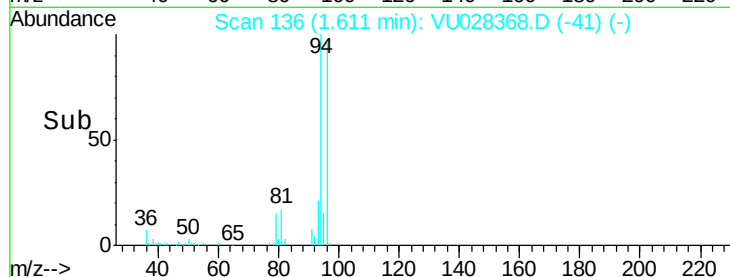


Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



Time-->



#6

Chloroethane

Concen: 20.378 ug/l

RT: 1.69 min Scan# 161

Delta R.T. 0.01 min

Lab File: VU028368.D

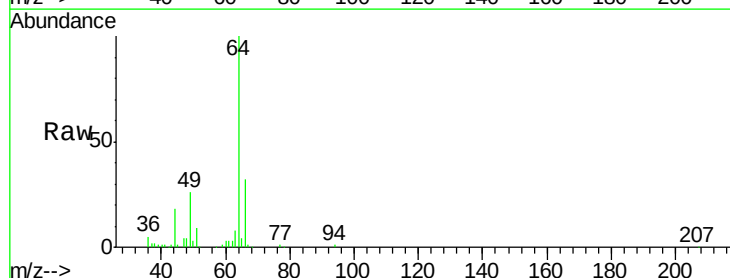
Acq: 28 Nov 2018 16:07

Tgt Ion: 64 Resp: 48794

Ion Ratio Lower Upper

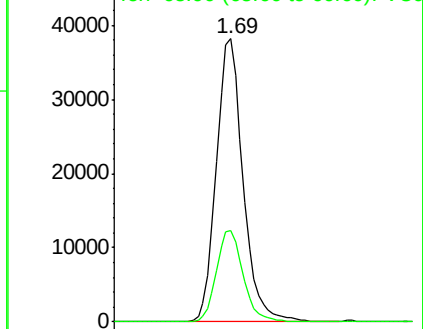
64 100

66 32.1 23.6 35.4

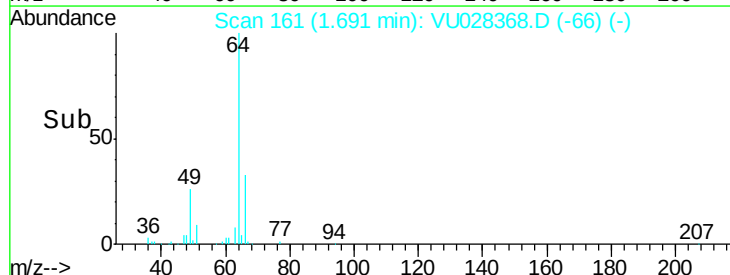


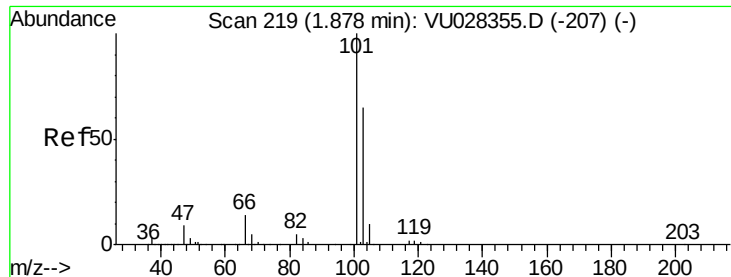
Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0



Time-->





#7

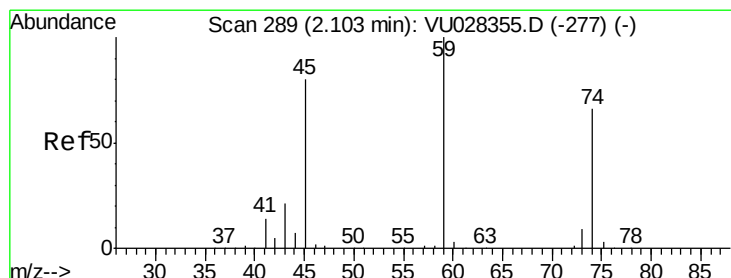
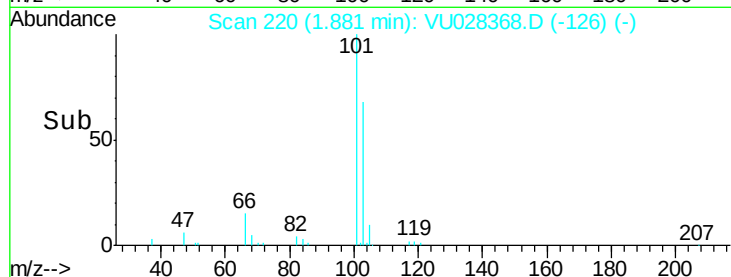
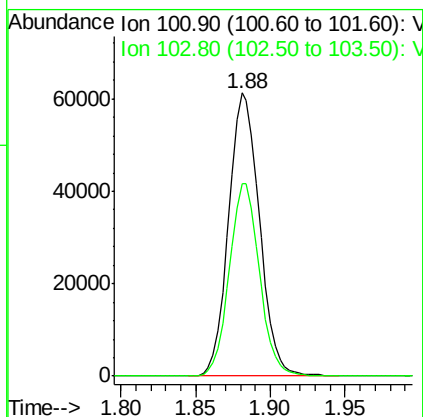
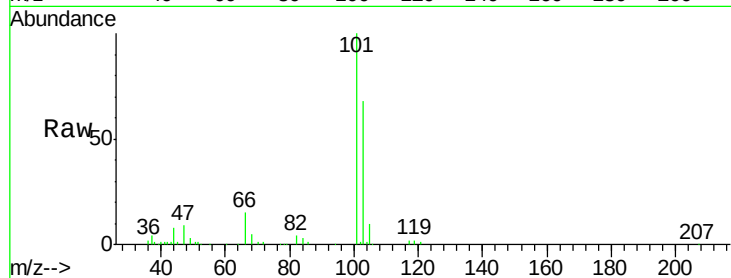
Trichlorofluoromethane
Concen: 20.347 ug/l
RT: 1.88 min Scan# 220
Delta R.T. 0.00 min
Lab File: VU028368.D
Acq: 28 Nov 2018 16:07

Instrument :
MSVOA_U
ClientSampleId :
VU1128WBS01

Tot Ion:101 Resp: 87947
Ion Ratio Lower Upper
101 100
103 67.8 51.6 77.4

Manual Integrations
APPROVED

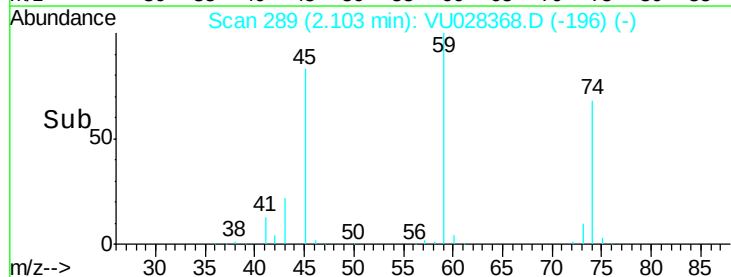
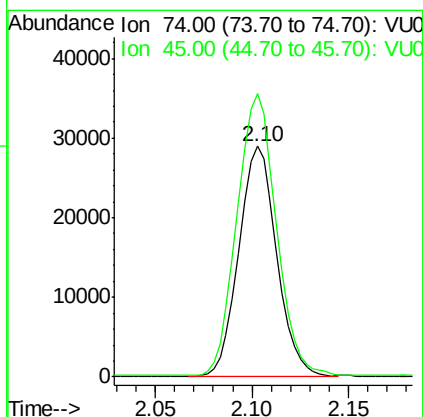
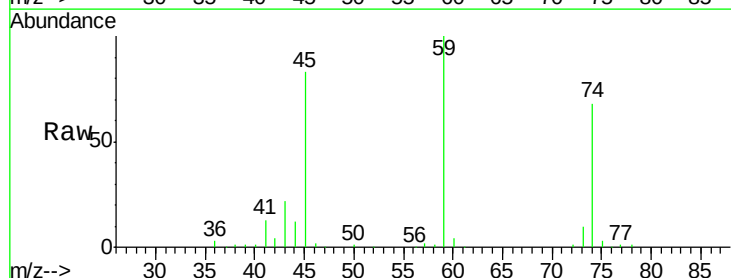
MMDadoda
11/29/2018 1:23:17 PM

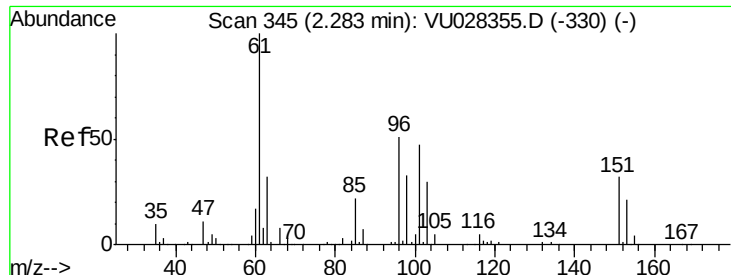


#8

Diethyl Ether
Concen: 19.720 ug/l
RT: 2.10 min Scan# 289
Delta R.T. 0.00 min
Lab File: VU028368.D
Acq: 28 Nov 2018 16:07

Tgt Ion: 74 Resp: 39622
Ion Ratio Lower Upper
74 100
45 126.1 63.0 189.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.908 ug/l

RT: 2.28 min Scan# 345

Delta R.T. 0.00 min

Lab File: VU028368.D

Acq: 28 Nov 2018 16:07

Instrument :

MSVOA_U

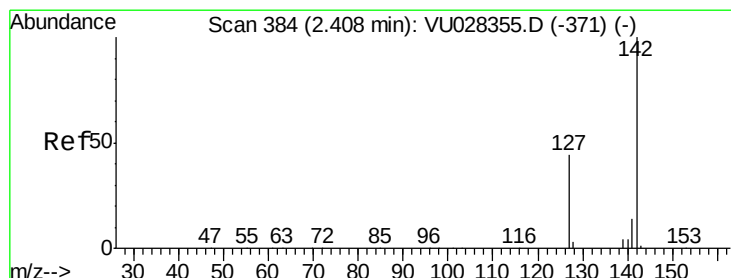
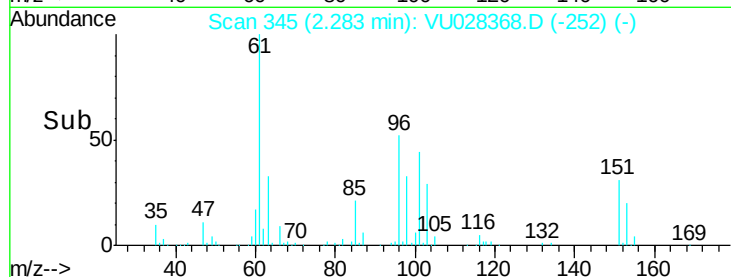
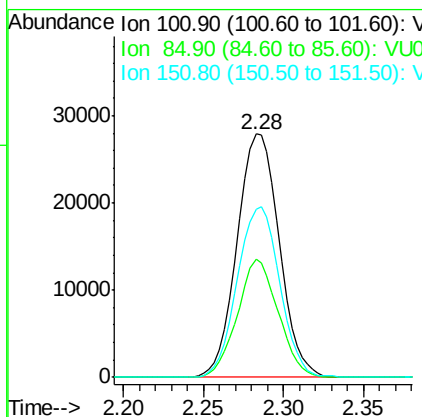
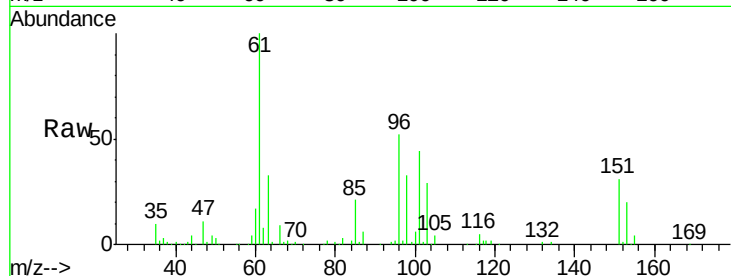
ClientSampleId :

VU1128WBS01

Tot Ion:	101	Resp:	50126
Ion Ratio	Lower	Upper	
101	100		
85	46.7	37.2	55.8
151	70.7	55.4	83.0

Manual Integrations
APPROVED

MMDadoda
11/29/2018 1:23:17 PM



#10

Methyl Iodide

Concen: 22.314 ug/l

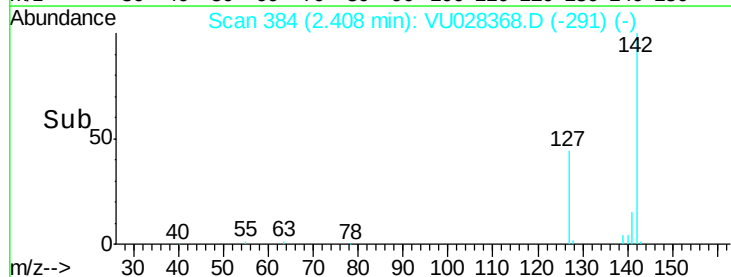
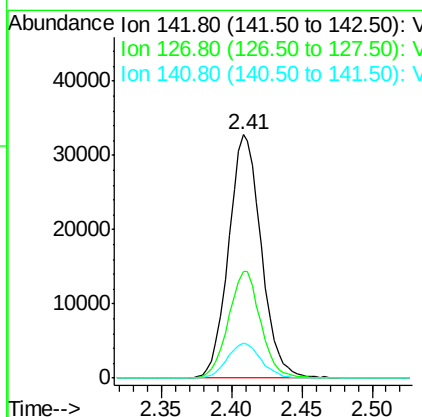
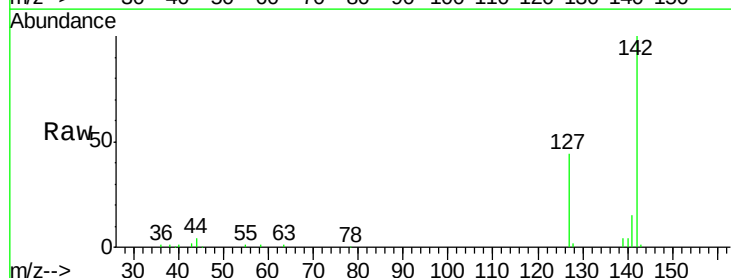
RT: 2.41 min Scan# 384

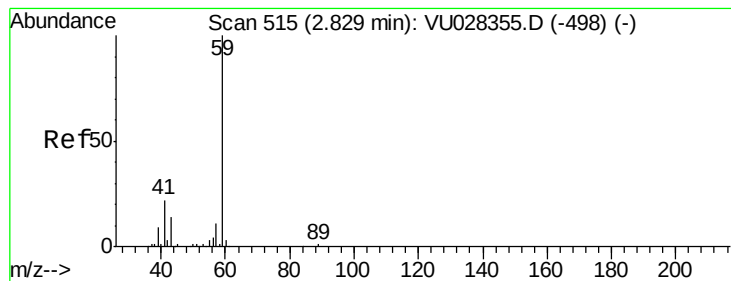
Delta R.T. 0.00 min

Lab File: VU028368.D

Acq: 28 Nov 2018 16:07

Tgt Ion:	142	Resp:	52981
Ion Ratio	Lower	Upper	
142	100		
127	43.3	35.0	52.6
141	14.8	11.2	16.8





#11

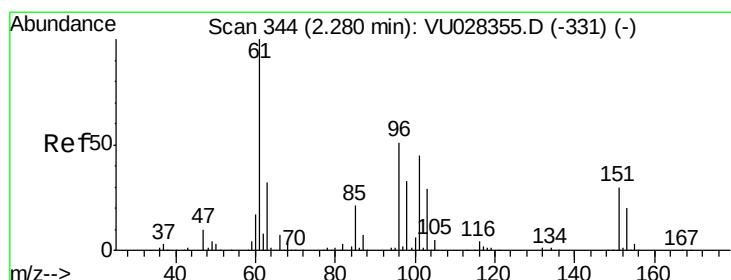
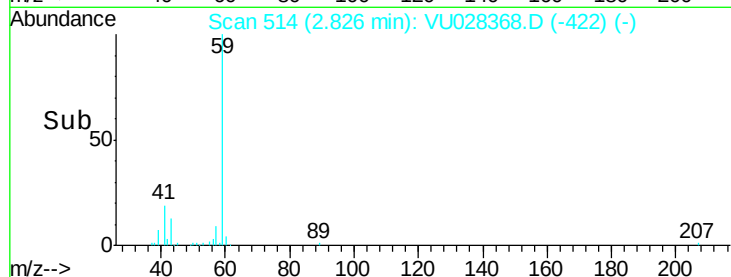
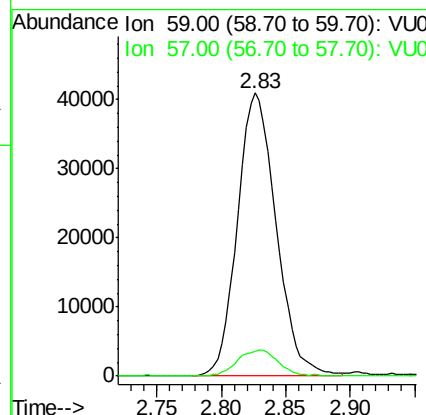
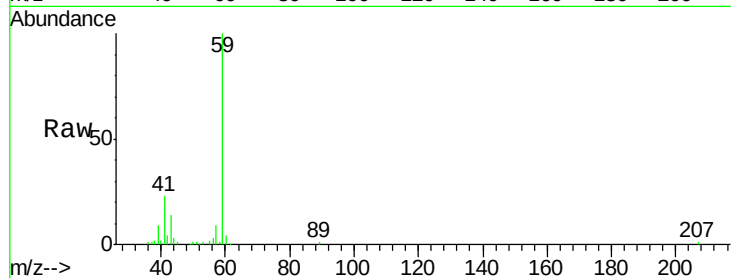
Tert butyl alcohol
Concen: 98.771 ug/l
RT: 2.83 min Scan# 514
Delta R.T. -0.00 min
Lab File: VU028368.D
Acq: 28 Nov 2018 16:07

Instrument :
MSVOA_U
ClientSampleId :
VU1128WBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.7	8.3	12.5

Manual Integrations
APPROVED

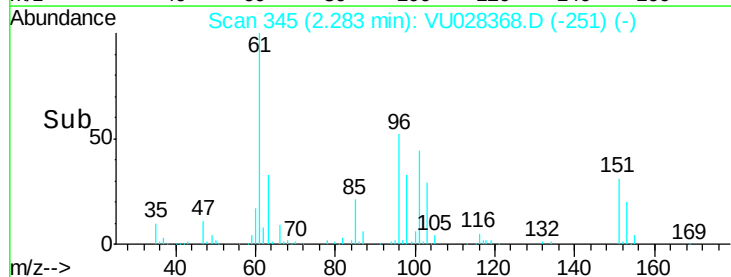
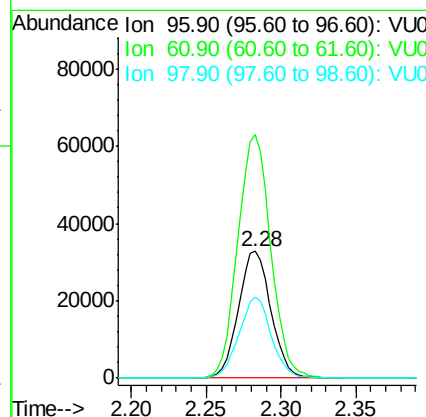
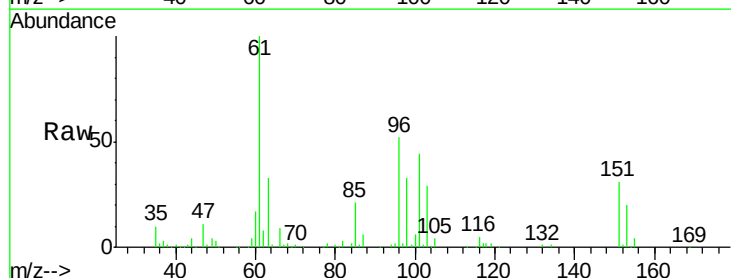
MMDadoda
11/29/2018 1:23:17 PM

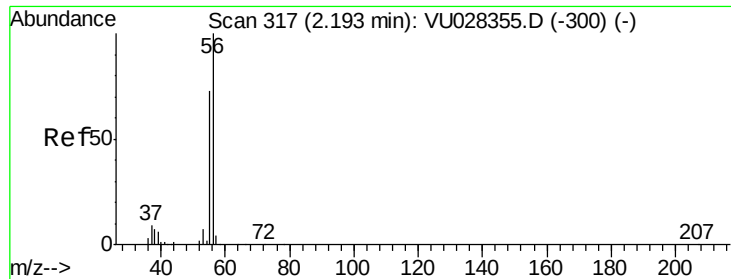


#12

1,1-Dichloroethene
Concen: 20.297 ug/l
RT: 2.28 min Scan# 345
Delta R.T. 0.00 min
Lab File: VU028368.D
Acq: 28 Nov 2018 16:07

Tgt Ion	Ratio	Lower	Upper
96	100		
61	191.8	158.1	237.1
98	64.2	51.4	77.2





#13

Acrolein

Concen: 94.843 ug/l

RT: 2.19 min Scan# 317

Delta R.T. 0.00 min

Lab File: VU028368.D

Acq: 28 Nov 2018 16:07

Instrument :

MSVOA_U

ClientSampleId :

VU1128WBS01

Tot Ion: 56 Resp: 73222

Ion Ratio Lower Upper

56 100

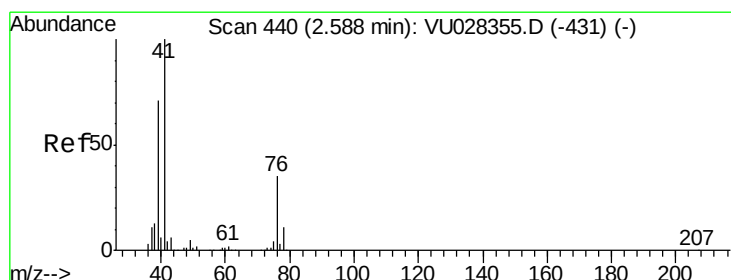
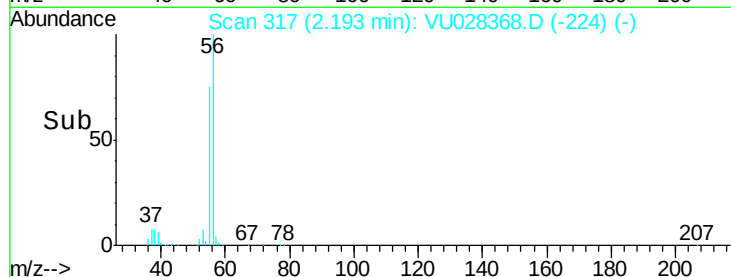
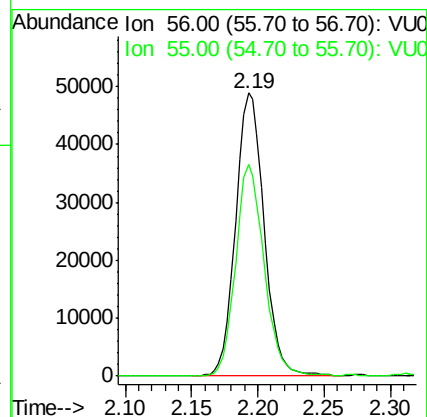
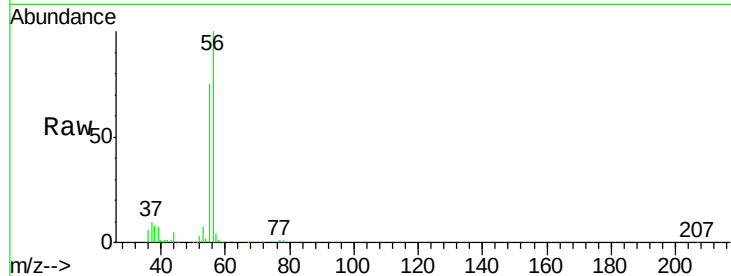
55 74.5 56.6 85.0

Manual Integrations

APPROVED

MMDadoda

11/29/2018 1:23:17 PM



#14

Allyl chloride

Concen: 19.637 ug/l

RT: 2.59 min Scan# 441

Delta R.T. 0.00 min

Lab File: VU028368.D

Acq: 28 Nov 2018 16:07

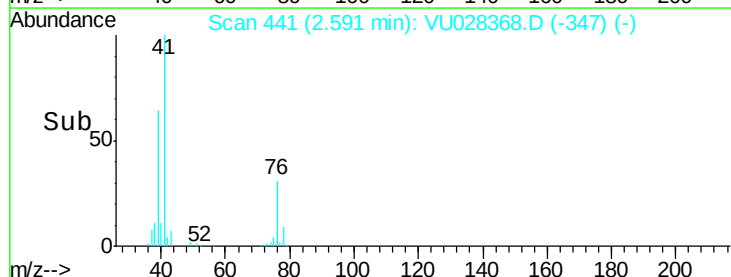
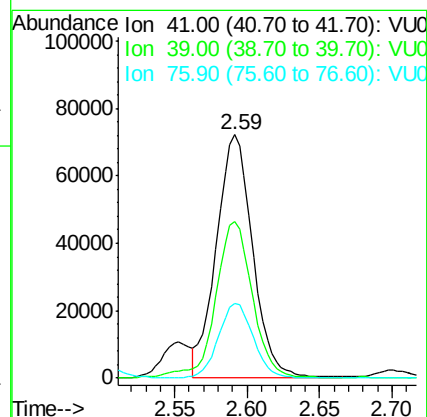
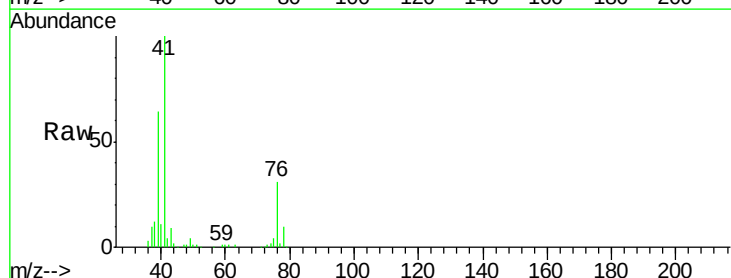
Tgt Ion: 41 Resp: 125363

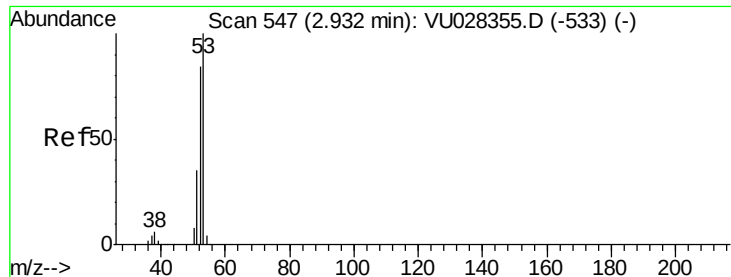
Ion Ratio Lower Upper

41 100

39 65.6 51.6 77.4

76 29.5 24.4 36.6





#15

Acrylonitrile

Concen: 107.260 ug/l

RT: 2.94 min Scan# 548

Delta R.T. 0.00 min

Lab File: VU028368.D

Acq: 28 Nov 2018 16:07

Instrument :

MSVOA_U

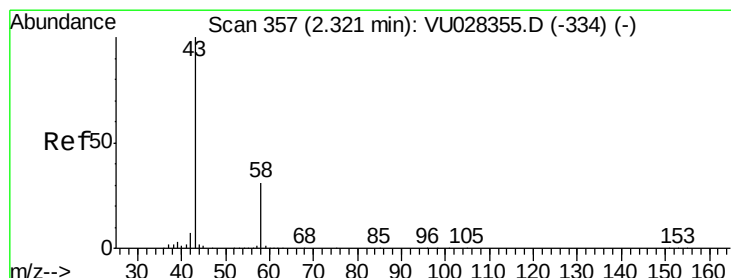
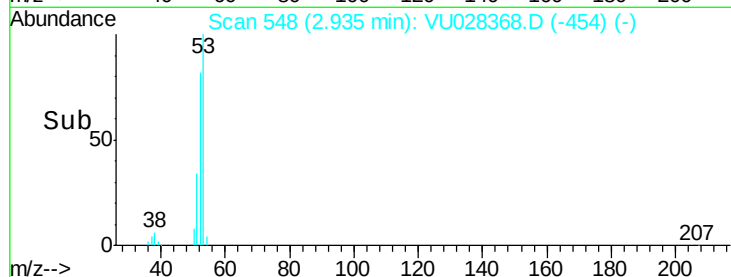
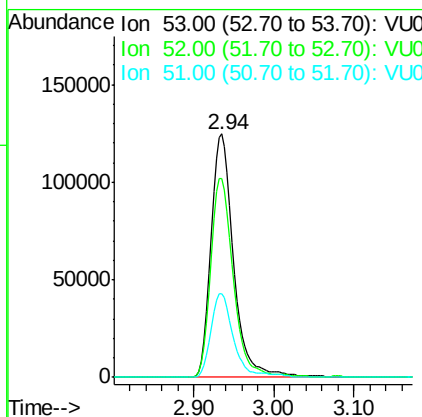
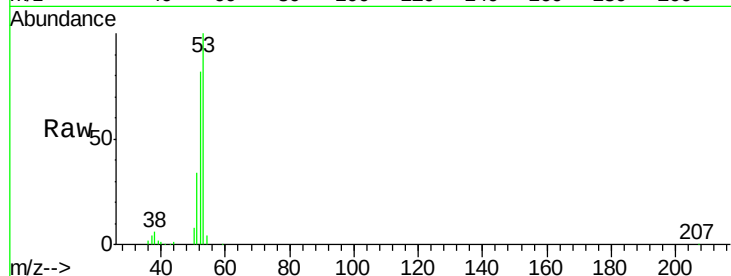
ClientSampleId :

VU1128WBS01

Tot Ion:	53	Resp:	246391
Ion	Ratio	Lower	Upper
53	100		
52	81.4	65.7	98.5
51	33.9	27.8	41.6

Manual Integrations
APPROVED

MMDadoda
11/29/2018 1:23:17 PM



#16

Acetone

Concen: 91.478 ug/l

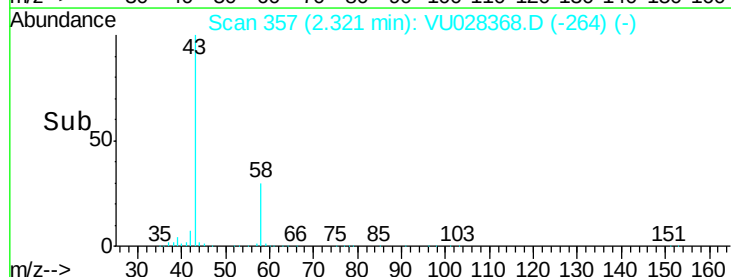
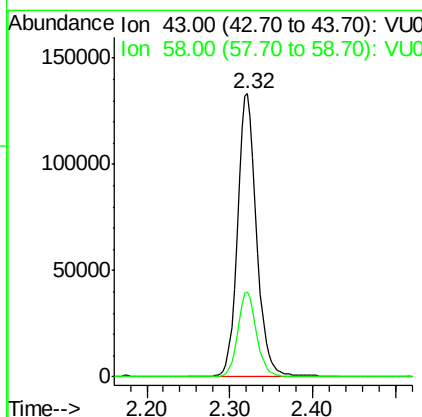
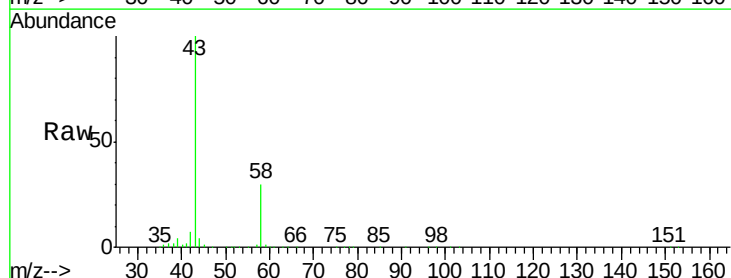
RT: 2.32 min Scan# 357

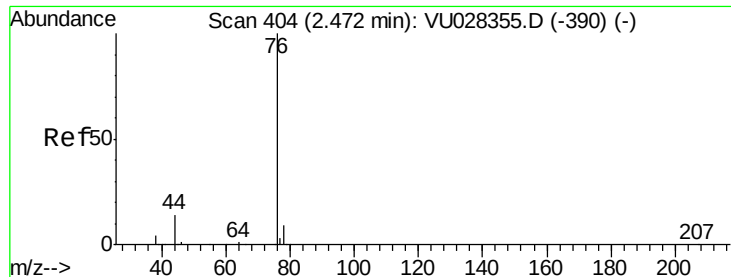
Delta R.T. 0.00 min

Lab File: VU028368.D

Acq: 28 Nov 2018 16:07

Tgt Ion:	43	Resp:	213908
Ion	Ratio	Lower	Upper
43	100		
58	30.3	24.4	36.6





#17

Carbon Disulfide

Concen: 19.490 ug/l

RT: 2.48 min Scan# 405

Delta R.T. 0.00 min

Lab File: VU028368.D

Acq: 28 Nov 2018 16:07

Instrument :

MSVOA_U

ClientSampleId :

VU1128WBS01

Tot Ion: 76 Resp: 182790

Ion Ratio Lower Upper

76 100

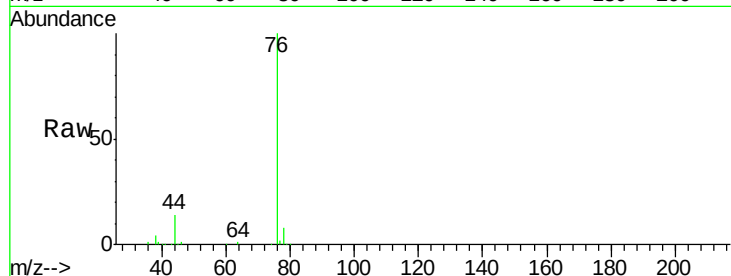
78 8.5 7.4 11.2

Manual Integrations

APPROVED

MMDadoda

11/29/2018 1:23:17 PM



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0

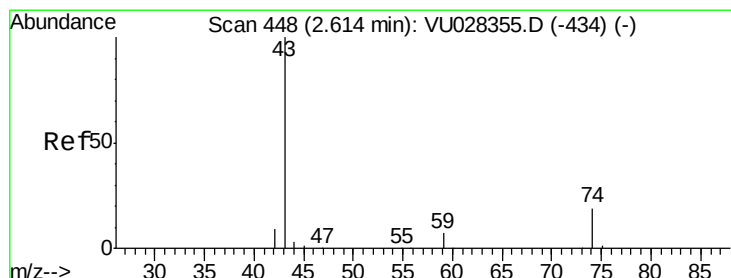
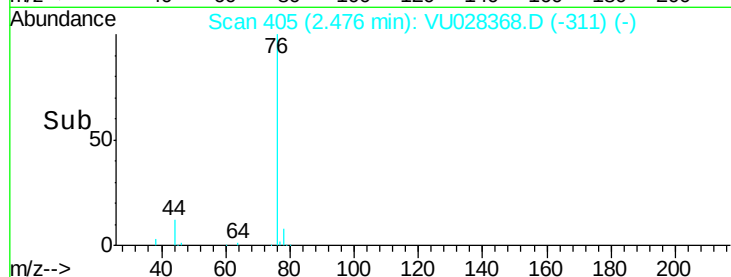
2.48

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 20.804 ug/l

RT: 2.61 min Scan# 448

Delta R.T. 0.00 min

Lab File: VU028368.D

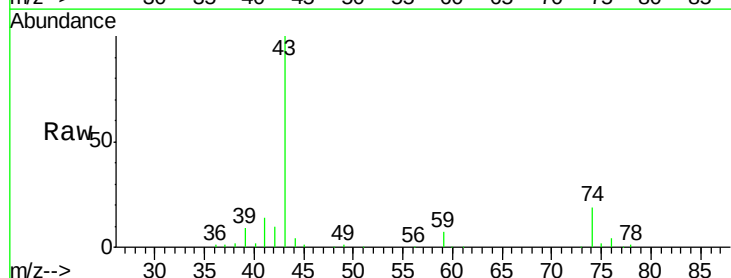
Acq: 28 Nov 2018 16:07

Tgt Ion: 43 Resp: 135447

Ion Ratio Lower Upper

43 100

74 19.3 15.3 22.9



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

2.61

80000

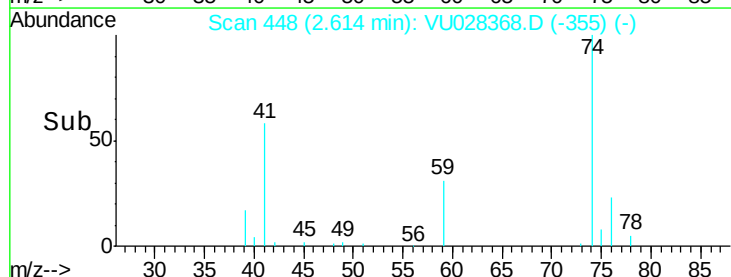
60000

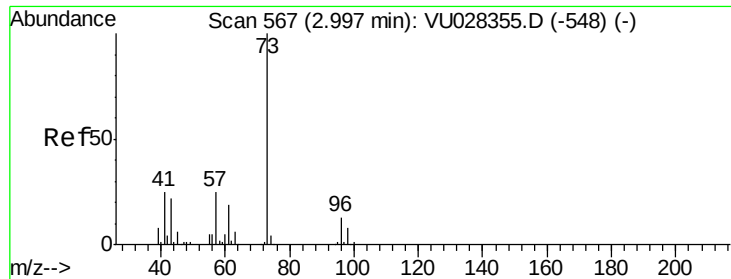
40000

20000

0

Time-->





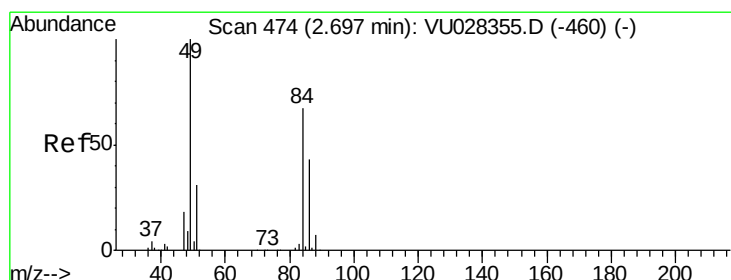
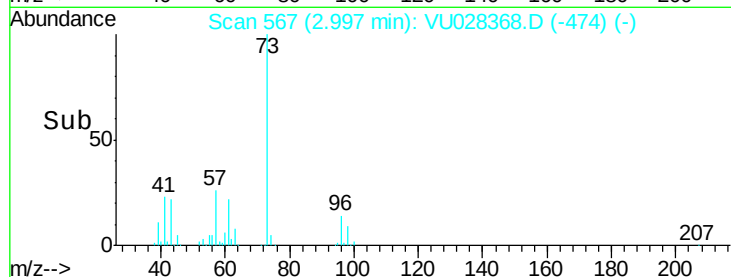
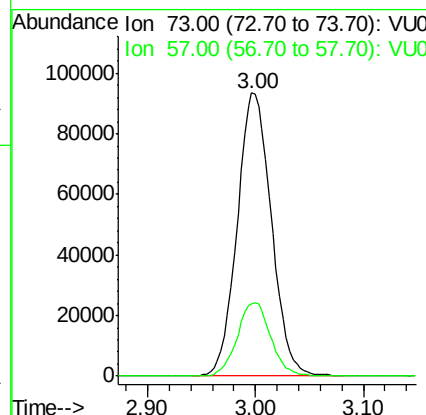
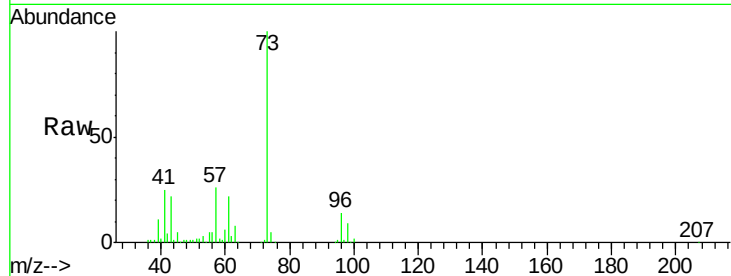
#19
Methyl tert-butyl Ether
Concen: 20.591 ug/l
RT: 3.00 min Scan# 567
Delta R.T. 0.00 min
Lab File: VU028368.D
Acq: 28 Nov 2018 16:07

Instrument :
MSVOA_U
ClientSampleId :
VU1128WBS01

Tot Ion: 73 Resp: 206272
Ion Ratio Lower Upper
73 100
57 25.7 20.1 30.1

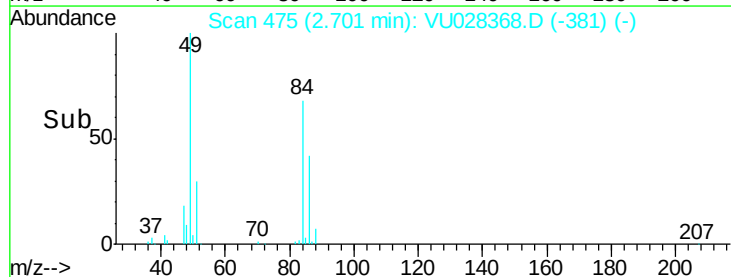
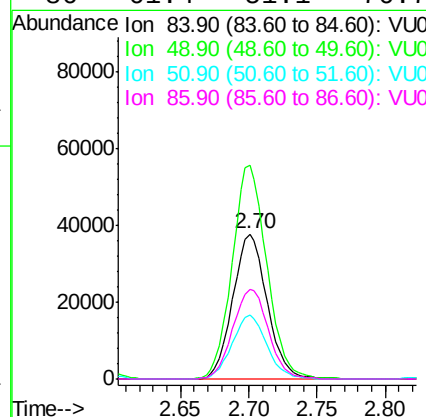
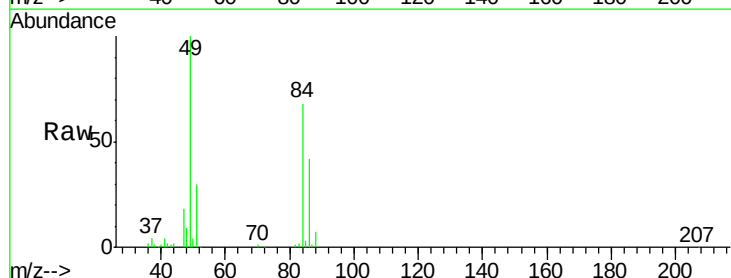
Manual Integrations
APPROVED

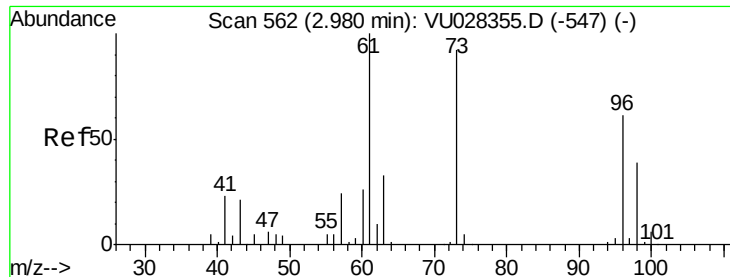
MMDadoda
11/29/2018 1:23:17 PM



#20
Methylene Chloride
Concen: 20.034 ug/l
RT: 2.70 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU028368.D
Acq: 28 Nov 2018 16:07

Tgt Ion: 84 Resp: 66221
Ion Ratio Lower Upper
84 100
49 147.0 120.0 180.0
51 43.8 36.9 55.3
86 61.4 51.1 76.7





#21

trans-1,2-Dichloroethene

Concen: 20.352 ug/l

RT: 2.98 min Scan# 562

Delta R.T. 0.00 min

Lab File: VU028368.D

Acq: 28 Nov 2018 16:07

Instrument :

MSVOA_U

ClientSampleId :

VU1128WBS01

Tot Ion: 96 Resp: 57672

Ion Ratio Lower Upper

96 100

61 158.9 131.1 196.7

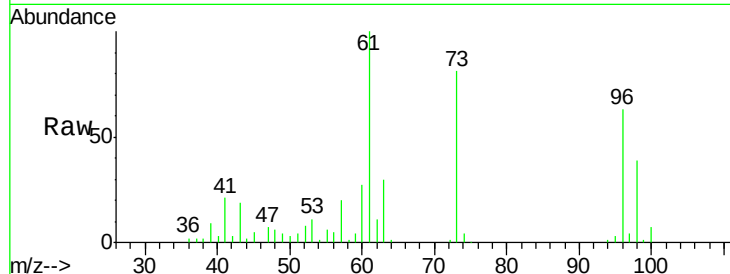
98 61.3 51.7 77.5

Manual Integrations

APPROVED

MMDadoda

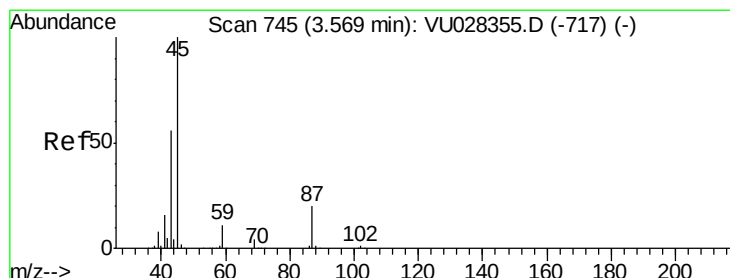
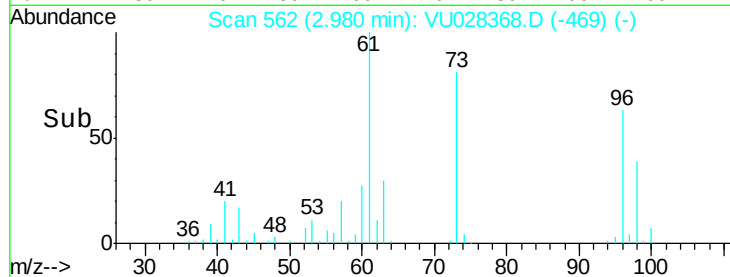
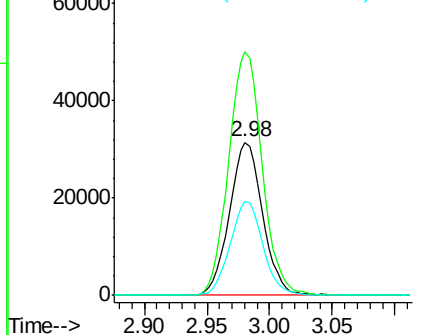
11/29/2018 1:23:17 PM



Abundance Ion 95.90 (95.60 to 96.60): VU028355.D (-547) (-)

Ion 60.90 (60.60 to 61.60): VU028355.D (-547) (-)

Ion 97.90 (97.60 to 98.60): VU028355.D (-547) (-)



#22

Diisopropyl ether

Concen: 20.524 ug/l

RT: 3.57 min Scan# 746

Delta R.T. 0.00 min

Lab File: VU028368.D

Acq: 28 Nov 2018 16:07

Tgt Ion: 45 Resp: 257960

Ion Ratio Lower Upper

45 100

43 57.9 44.8 67.2

87 20.8 16.3 24.5

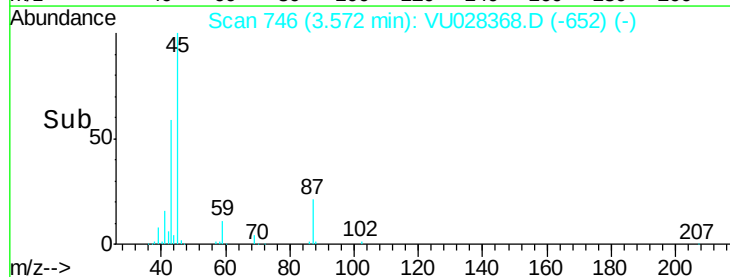
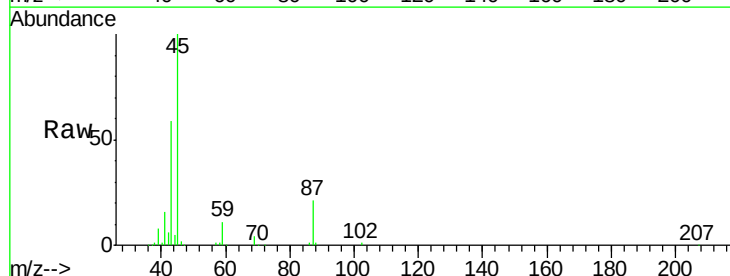
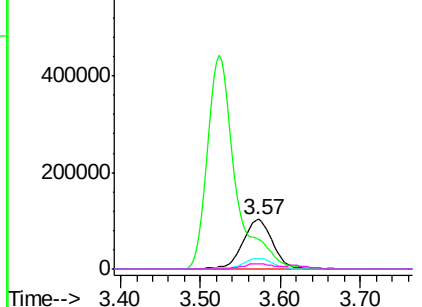
59 11.1 8.6 12.8

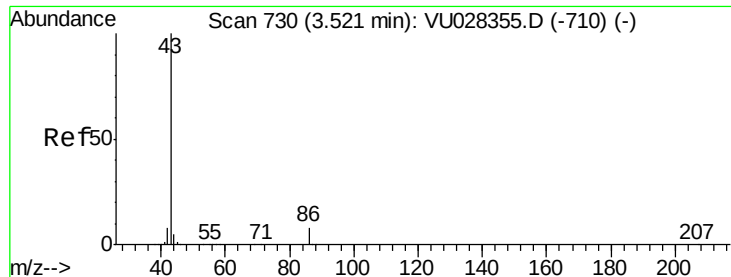
Abundance Ion 45.00 (44.70 to 45.70): VU028355.D (-717) (-)

Ion 43.00 (42.70 to 43.70): VU028355.D (-717) (-)

Ion 87.00 (86.70 to 87.70): VU028355.D (-717) (-)

Ion 59.00 (58.70 to 59.70): VU028355.D (-717) (-)





#23

Vinyl Acetate

Concen: 103.403 ug/l

RT: 3.52 min Scan# 731

Delta R.T. 0.00 min

Lab File: VU028368.D

Acq: 28 Nov 2018 16:07

Tot Ion: 43 Resp: 1080292

Ion Ratio Lower Upper

43 100

86 7.9 6.5 9.7

Instrument :

MSVOA_U

ClientSampleId :

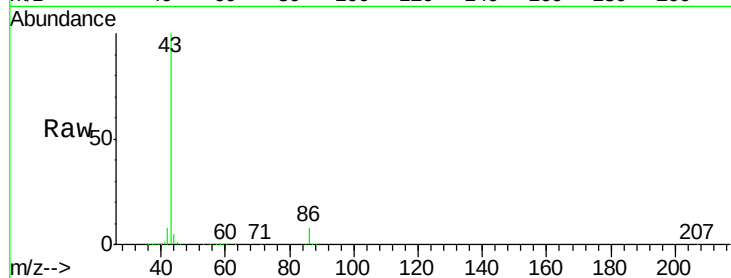
VU1128WBS01

Manual Integrations

APPROVED

MMDadoda

11/29/2018 1:23:17 PM



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

3.52

400000

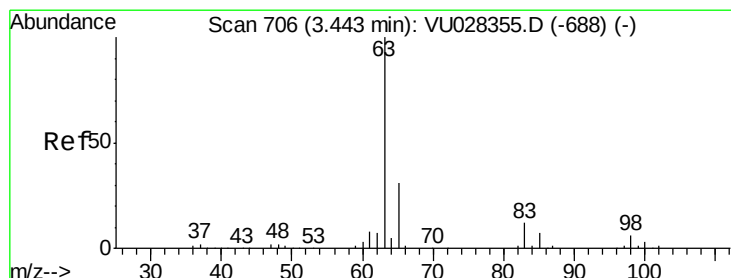
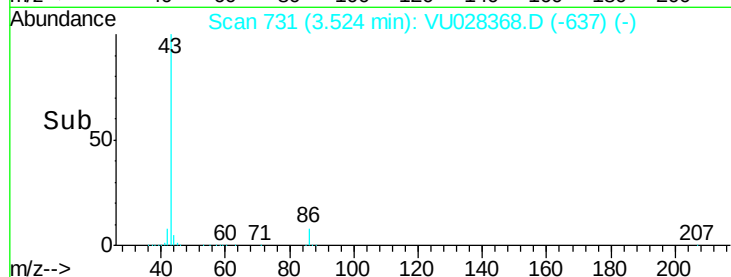
300000

200000

100000

0

Time-->



#24

1,1-Dichloroethane

Concen: 20.701 ug/l

RT: 3.44 min Scan# 706

Delta R.T. 0.00 min

Lab File: VU028368.D

Acq: 28 Nov 2018 16:07

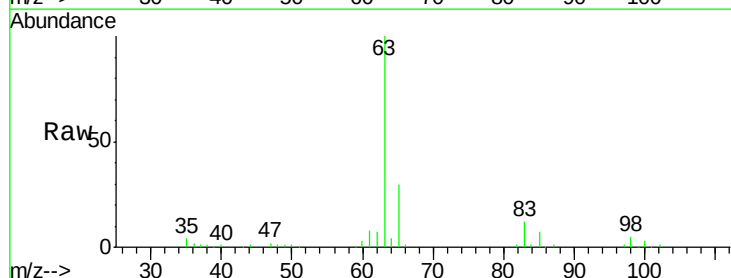
Tgt Ion: 63 Resp: 128282

Ion Ratio Lower Upper

63 100

98 5.2 2.9 8.6

100 3.0 1.7 5.1



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

Ion 99.90 (99.60 to 100.60): VU0

3.44

80000

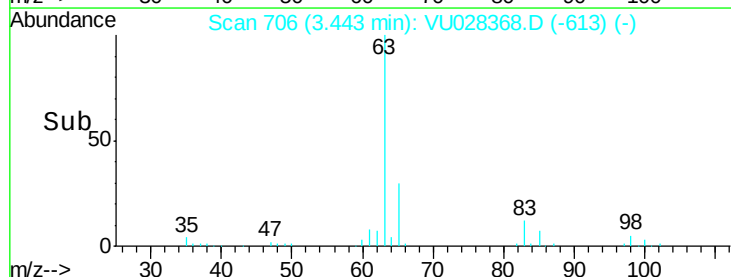
60000

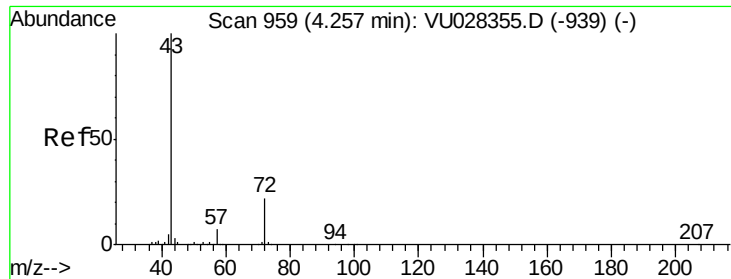
40000

20000

0

Time-->





#25

2-Butanone

Concen: 102.484 ug/l

RT: 4.26 min Scan# 960

Delta R.T. 0.00 min

Lab File: VU028368.D

Acq: 28 Nov 2018 16:07

Instrument :

MSVOA_U

ClientSampleId :

VU1128WBS01

Tot Ion: 43 Resp: 343447

Ion Ratio Lower Upper

43 100

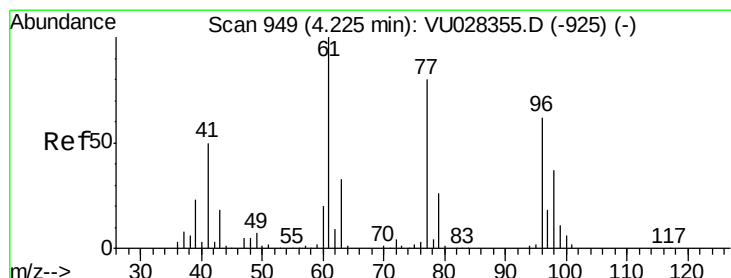
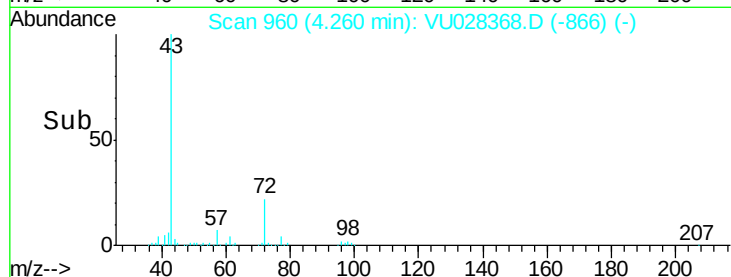
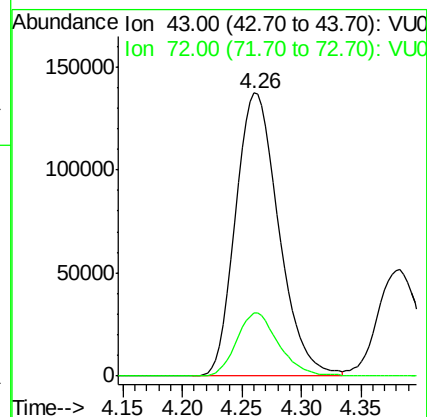
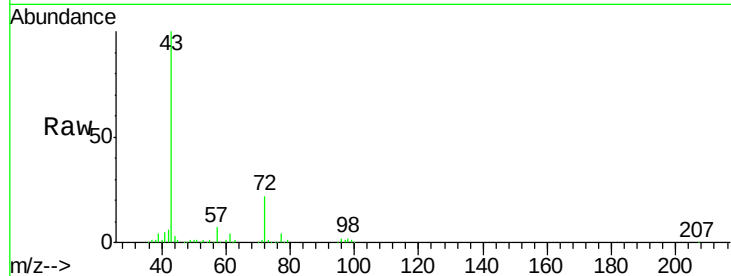
72 22.2 17.7 26.5

Manual Integrations

APPROVED

MMDadoda

11/29/2018 1:23:17 PM



#26

2,2-Dichloropropane

Concen: 19.338 ug/l

RT: 4.22 min Scan# 949

Delta R.T. 0.00 min

Lab File: VU028368.D

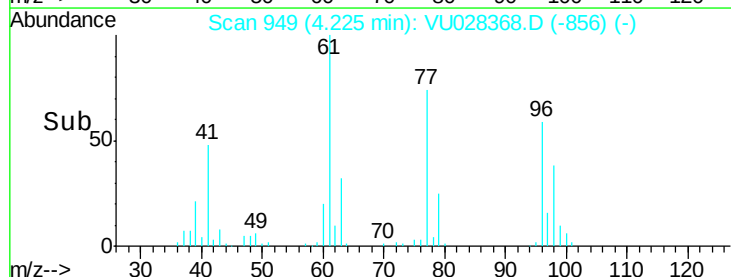
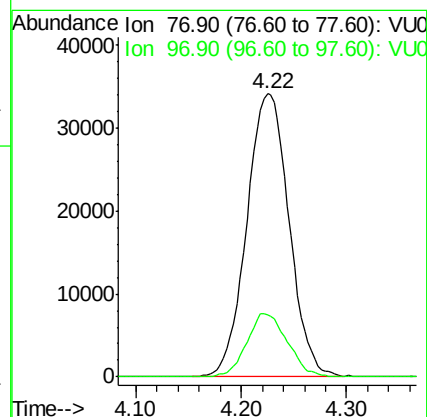
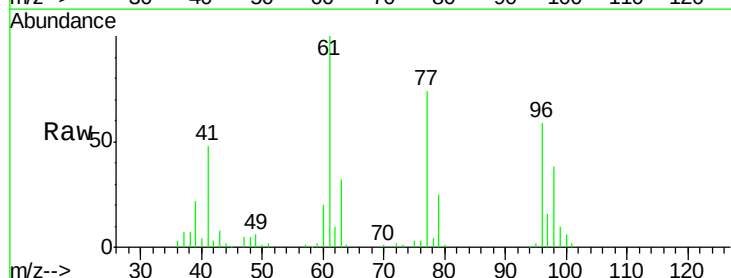
Acq: 28 Nov 2018 16:07

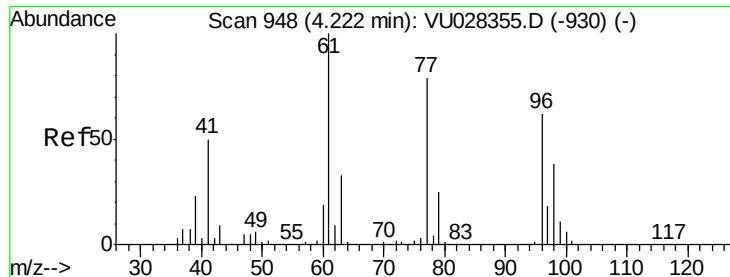
Tgt Ion: 77 Resp: 95169

Ion Ratio Lower Upper

77 100

97 21.4 10.7 32.1





#27

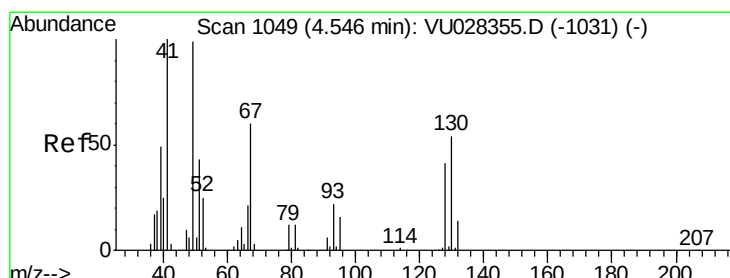
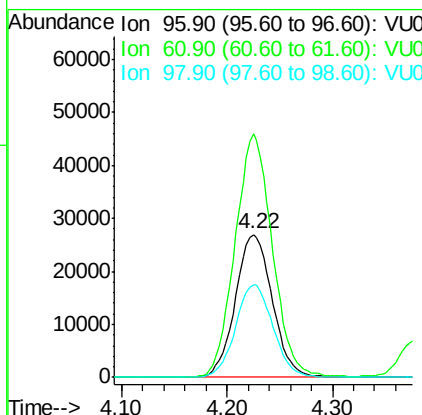
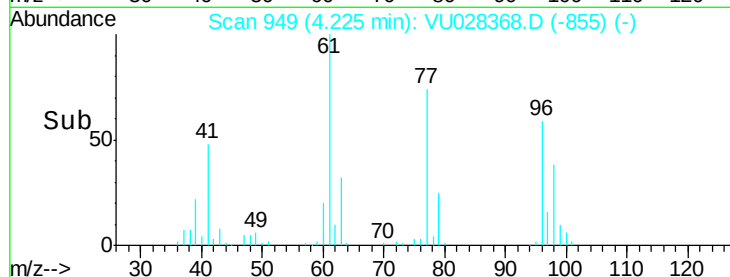
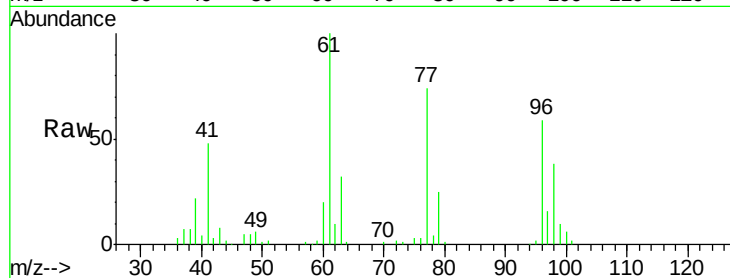
cis-1,2-Dichloroethene
Concen: 19.560 ug/l
RT: 4.22 min Scan# 949
Delta R.T. 0.00 min
Lab File: VU028368.D
Acq: 28 Nov 2018 16:07

Instrument :
MSVOA_U
ClientSampleId :
VU1128WBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	172.2	0.0	342.0
98	65.6	0.0	126.4

Manual Integrations
APPROVED

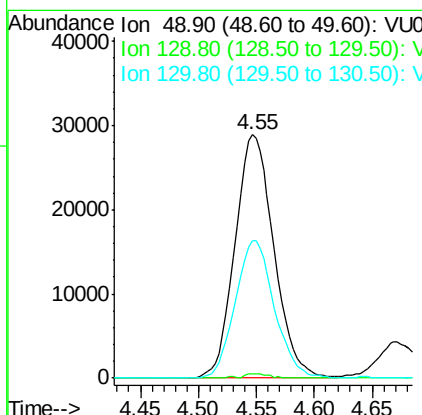
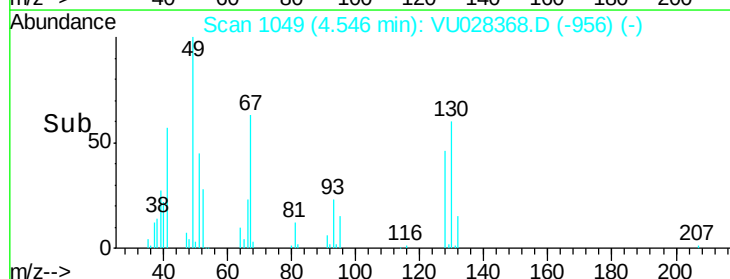
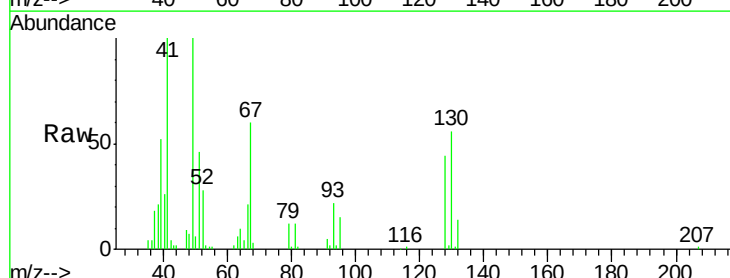
MMDadoda
11/29/2018 1:23:17 PM

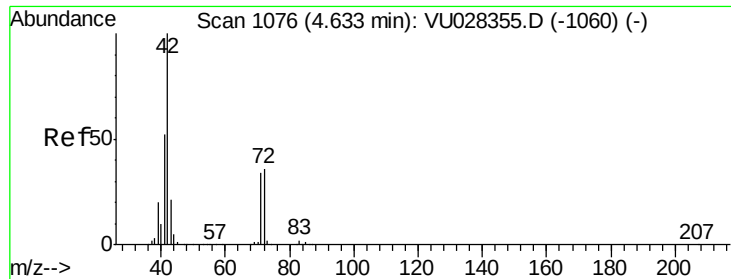


#28

Bromochloromethane
Concen: 21.697 ug/l
RT: 4.55 min Scan# 1049
Delta R.T. 0.00 min
Lab File: VU028368.D
Acq: 28 Nov 2018 16:07

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.0	0.0	2.6
130	56.7	44.5	66.7





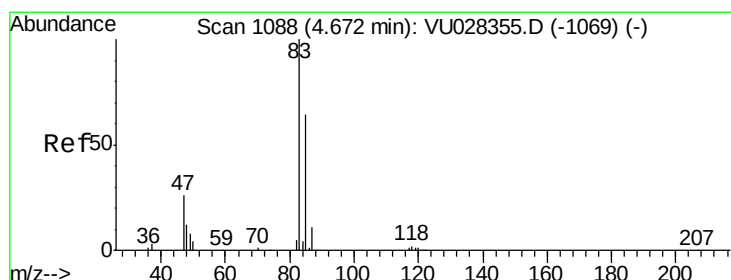
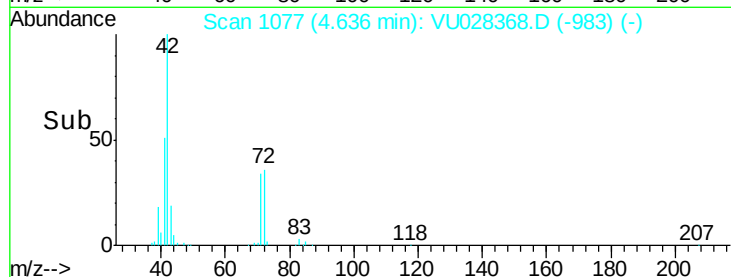
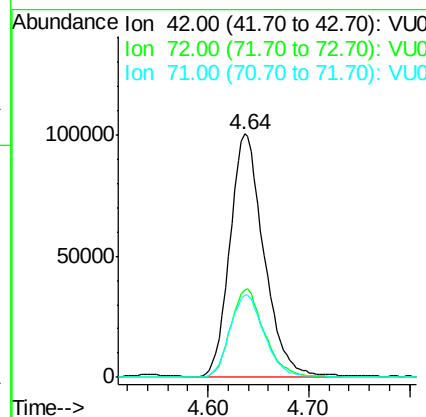
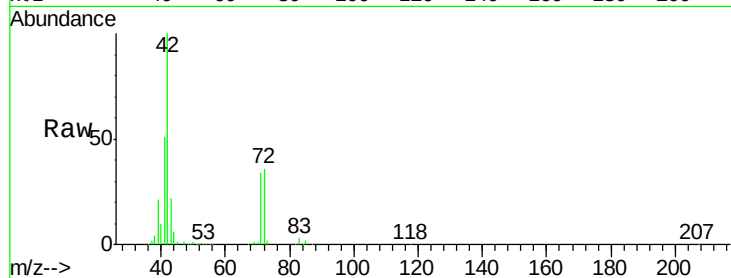
#29
Tetrahydrofuran
Concen: 108.124 ug/l
RT: 4.64 min Scan# 1077
Delta R.T. 0.00 min
Lab File: VU028368.D
Acq: 28 Nov 2018 16:07

Instrument :
MSVOA_U
ClientSampleId :
VU1128WBS01

Tot Ion	Ratio	Resp	Lower	Upper
42	100			
72	36.4	29.5	44.3	
71	34.8	27.7	41.5	

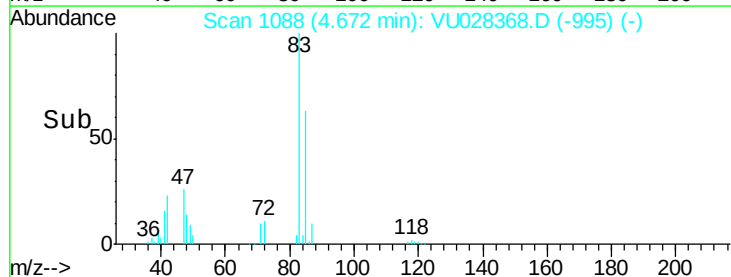
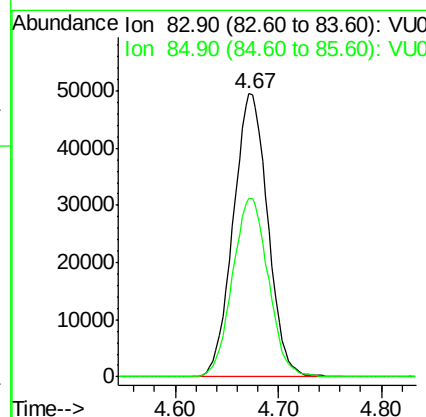
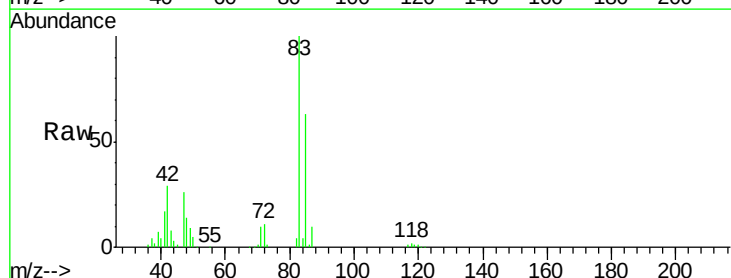
Manual Integrations
APPROVED

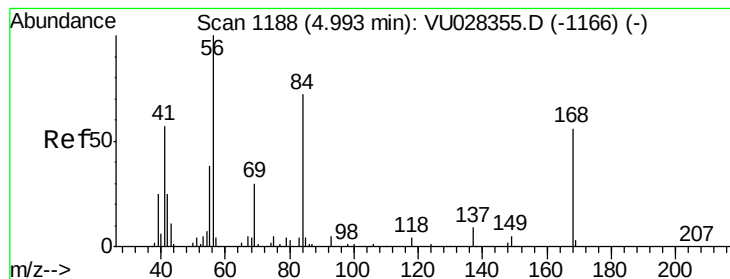
MMDadoda
11/29/2018 1:23:17 PM



#30
Chloroform
Concen: 20.180 ug/l
RT: 4.67 min Scan# 1088
Delta R.T. 0.00 min
Lab File: VU028368.D
Acq: 28 Nov 2018 16:07

Tgt Ion	Ratio	Resp	Lower	Upper
83	100			
85	62.9	51.2	76.8	





#31

Cyclohexane

Concen: 20.668 ug/l

RT: 4.99 min Scan# 1188

Delta R.T. 0.00 min

Lab File: VU028368.D

Acq: 28 Nov 2018 16:07

Instrument :

MSVOA_U

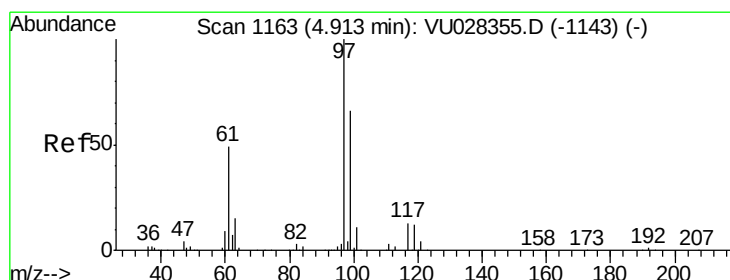
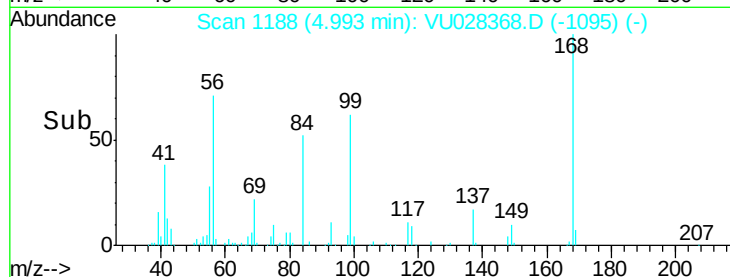
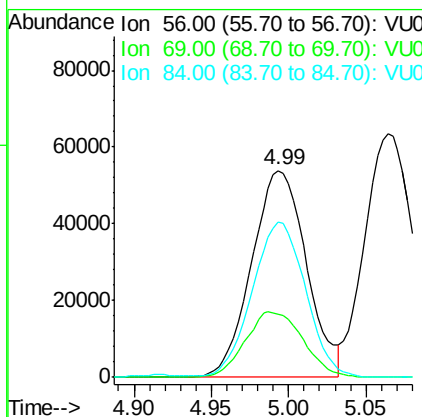
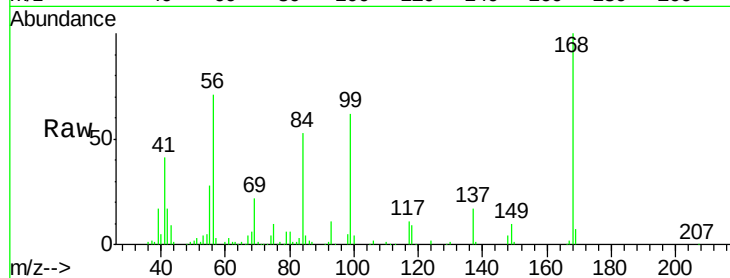
ClientSampleId :

VU1128WBS01

Tot Ion:	56	Resp:	132919
Ion	Ratio	Lower	Upper
56	100		
69	30.8	23.7	35.5
84	74.0	57.3	85.9

Manual Integrations
APPROVED

MMDadoda
11/29/2018 1:23:17 PM



#32

1,1,1-Trichloroethane

Concen: 20.525 ug/l

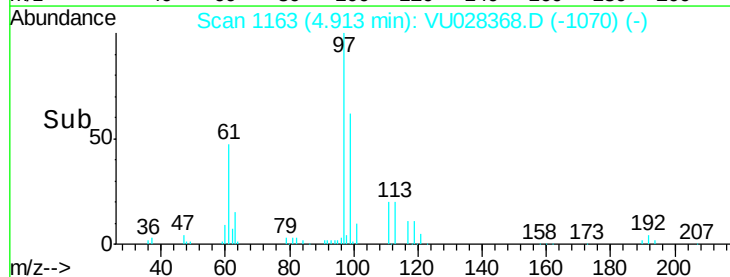
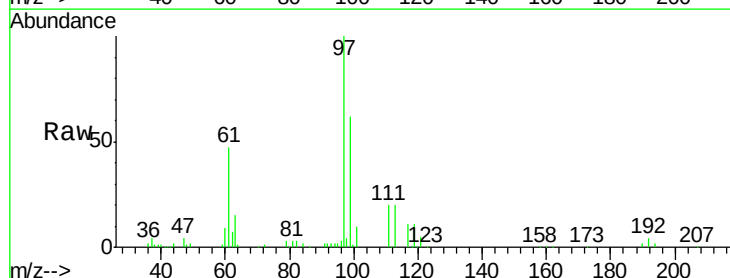
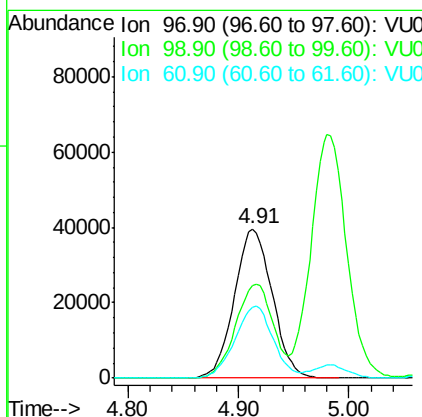
RT: 4.91 min Scan# 1163

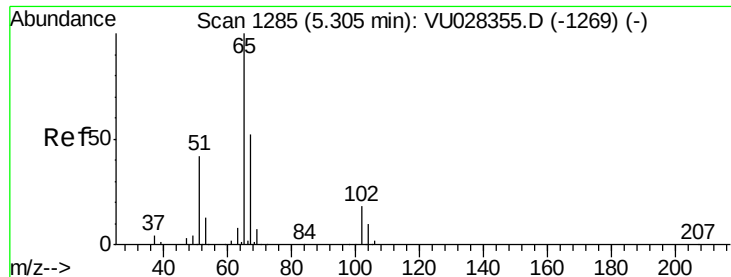
Delta R.T. 0.00 min

Lab File: VU028368.D

Acq: 28 Nov 2018 16:07

Tgt Ion:	97	Resp:	94205
Ion	Ratio	Lower	Upper
97	100		
99	62.6	50.8	76.2
61	48.6	39.1	58.7





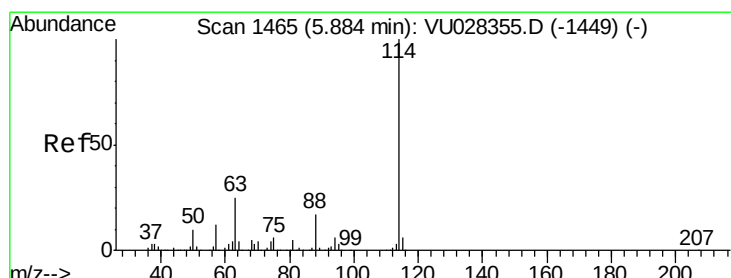
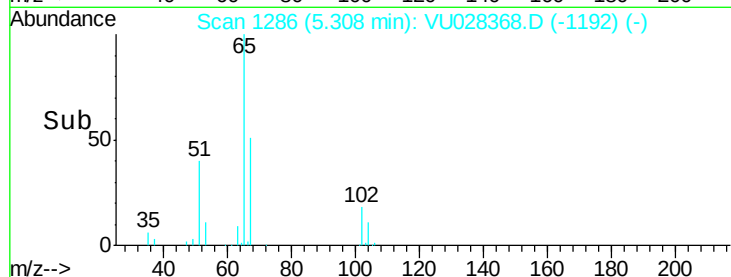
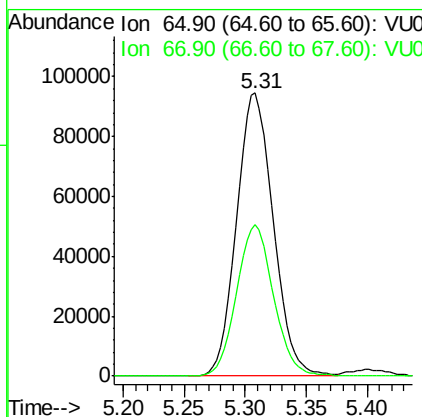
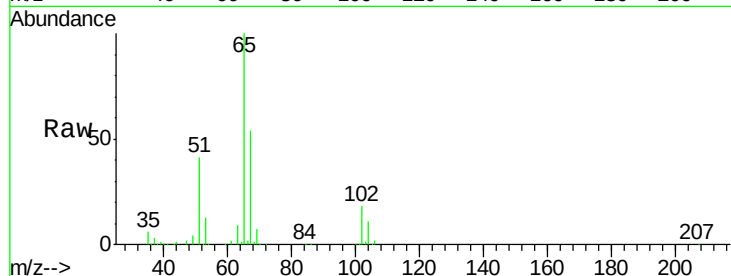
#33
 1,2-Dichloroethane-d4
 Concen: 51.546 ug/l
 RT: 5.31 min Scan# 1286
 Delta R.T. 0.00 min
 Lab File: VU028368.D
 Acq: 28 Nov 2018 16:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1128WBS01

Tot Ion	Ratio	Lower	Upper
65	100		
67	53.6	0.0	106.8

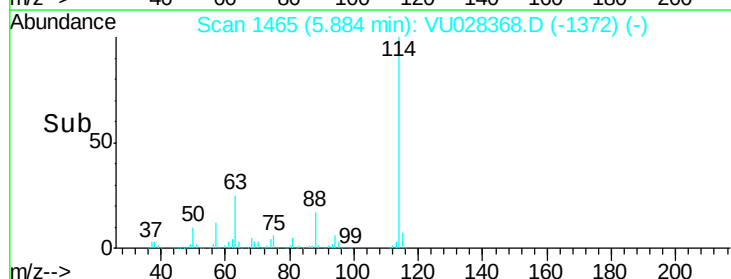
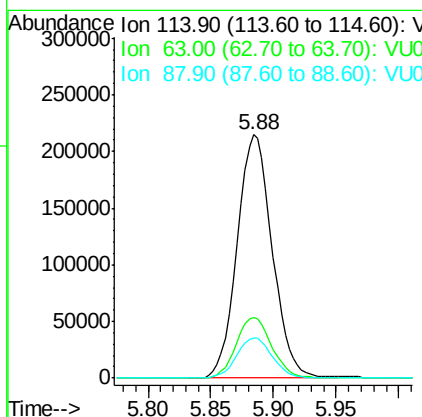
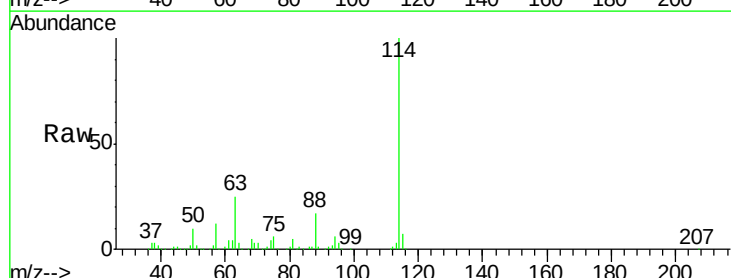
Manual Integrations
 APPROVED

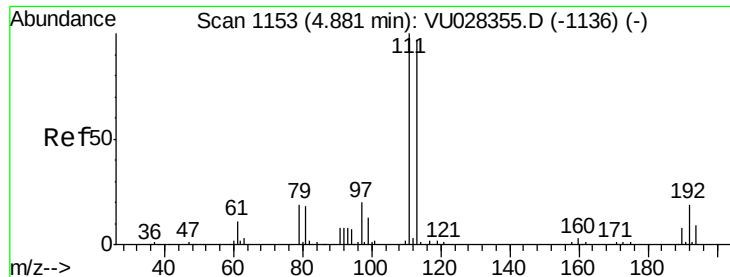
MMDadoda
 11/29/2018 1:23:17 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. 0.00 min
 Lab File: VU028368.D
 Acq: 28 Nov 2018 16:07

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.9	0.0	50.0
88	16.6	0.0	34.4





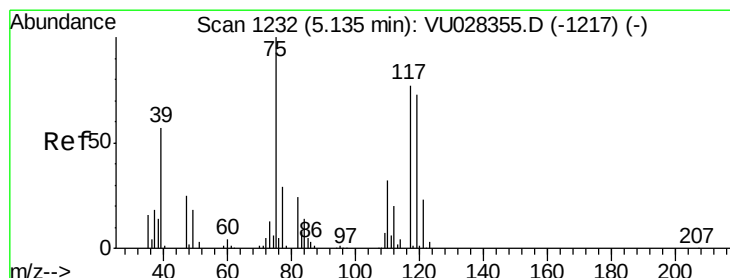
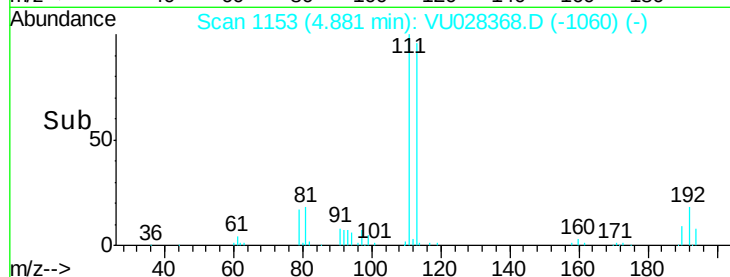
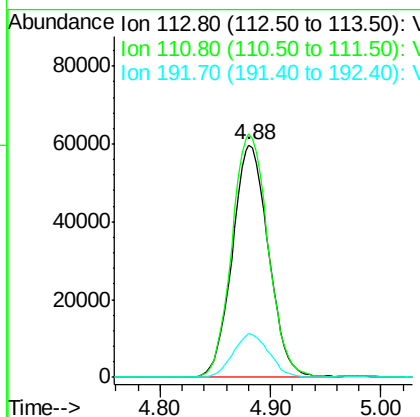
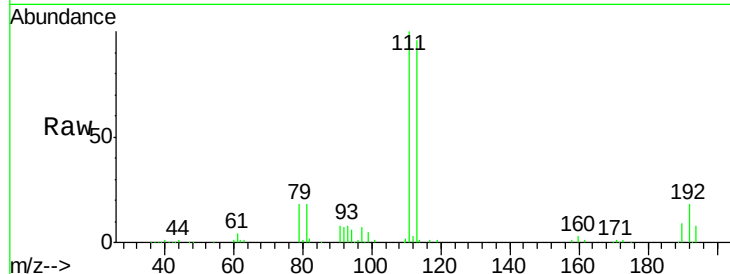
#35
 Dibromofluoromethane
 Concen: 48.800 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. 0.00 min
 Lab File: VU028368.D
 Acq: 28 Nov 2018 16:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1128WBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	105.1	82.9	124.3	
192	18.6	15.4	23.0	

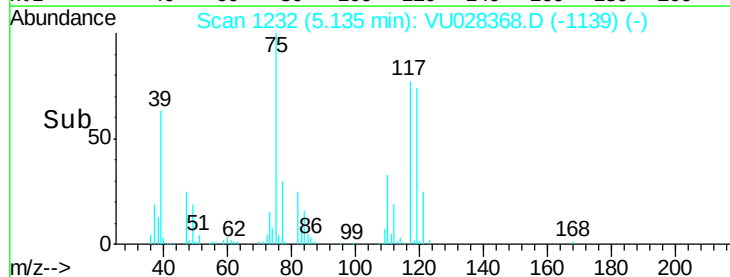
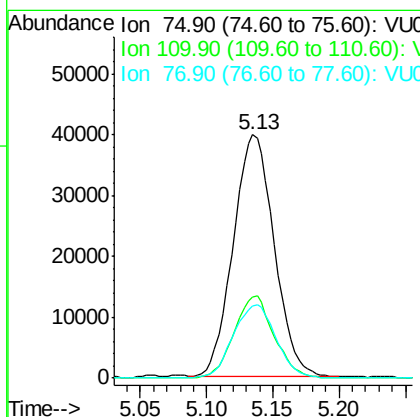
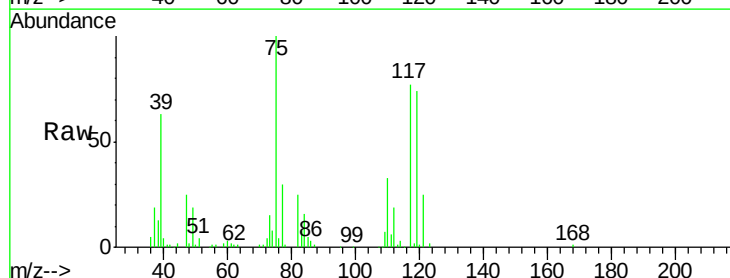
Manual Integrations
 APPROVED

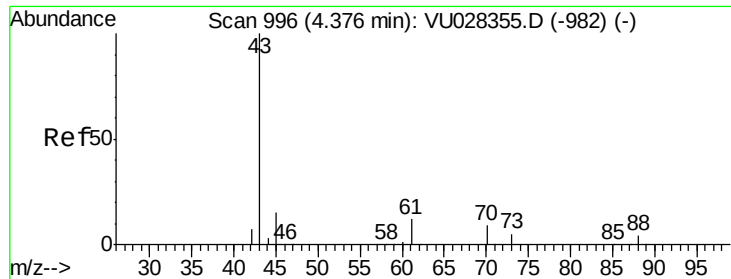
MMDadoda
 11/29/2018 1:23:17 PM



#36
 1,1-Dichloropropene
 Concen: 18.602 ug/l
 RT: 5.13 min Scan# 1232
 Delta R.T. 0.00 min
 Lab File: VU028368.D
 Acq: 28 Nov 2018 16:07

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	33.3	15.8	47.4	
77	31.9	24.6	36.8	





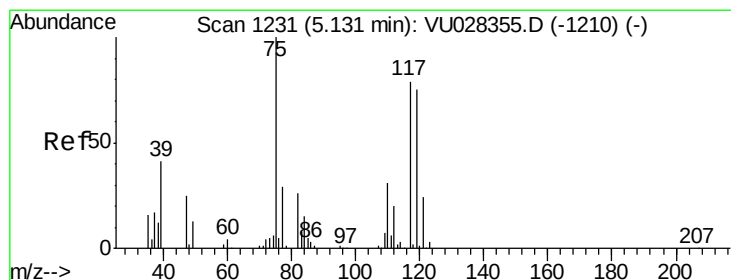
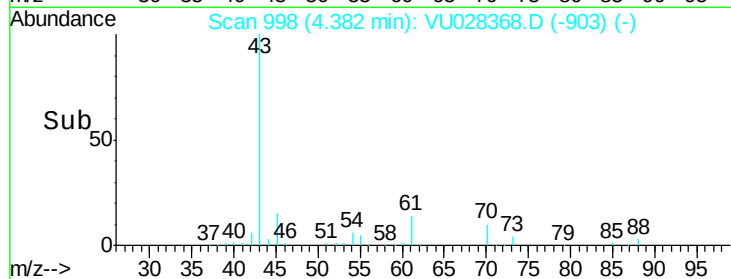
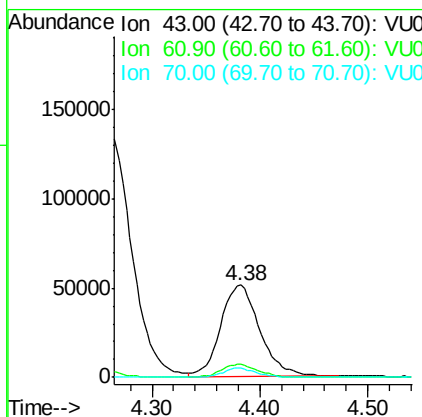
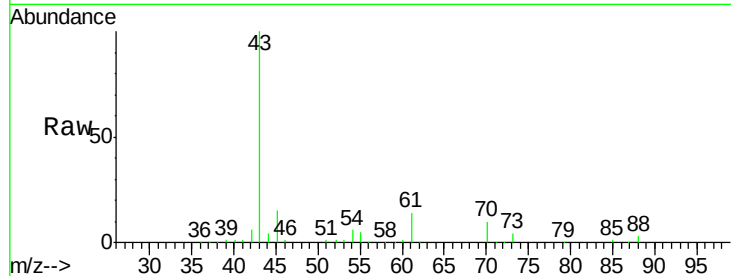
#37
Ethyl Acetate
Concen: 20.590 ug/l
RT: 4.38 min Scan# 998
Delta R.T. 0.01 min
Lab File: VU028368.D
Acq: 28 Nov 2018 16:07

Instrument :
MSVOA_U
ClientSampleId :
VU1128WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.9	10.2	15.4
70	9.0	6.9	10.3

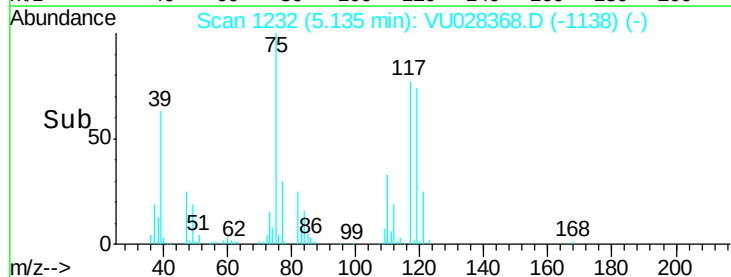
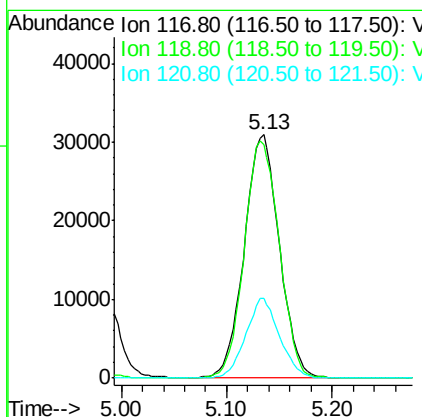
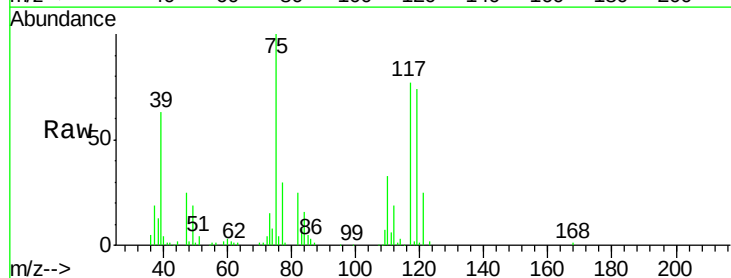
Manual Integrations
APPROVED

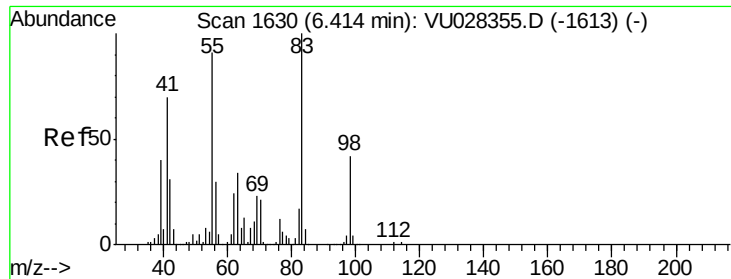
MMDadoda
11/29/2018 1:23:17 PM



#38
Carbon Tetrachloride
Concen: 19.114 ug/l
RT: 5.13 min Scan# 1232
Delta R.T. 0.00 min
Lab File: VU028368.D
Acq: 28 Nov 2018 16:07

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.9	76.3	114.5
121	32.5	24.7	37.1





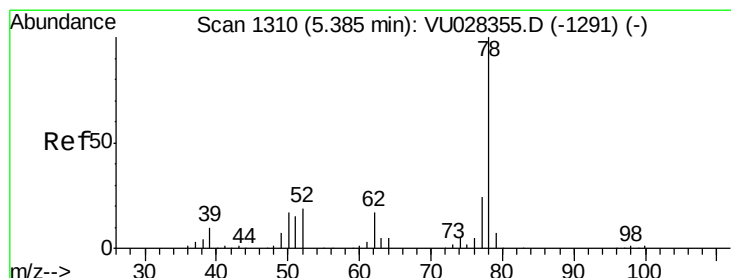
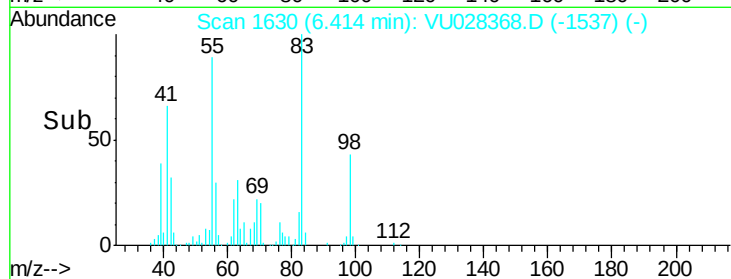
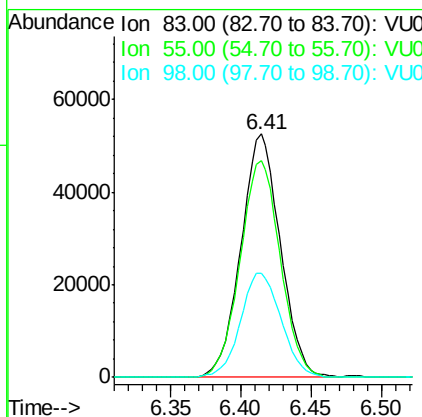
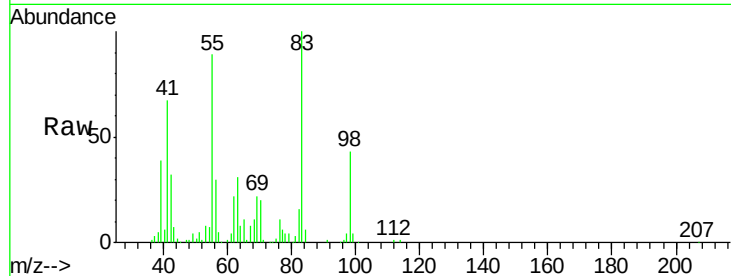
#39
Methylvlcyclohexane
Concen: 19.103 ug/l
RT: 6.41 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VU028368.D
Acq: 28 Nov 2018 16:07

Instrument :
MSVOA_U
ClientSampleId :
VU1128WBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	88.8	73.1	109.7
98	43.0	33.9	50.9

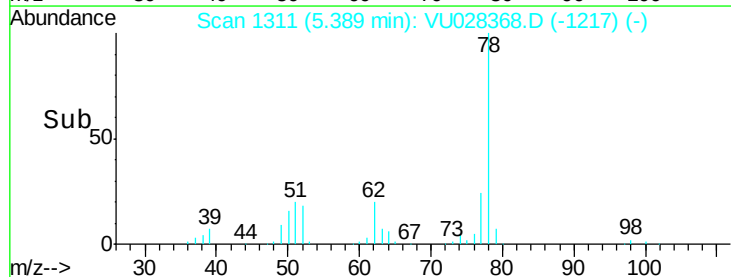
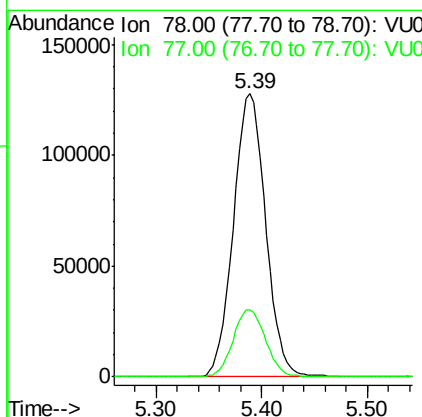
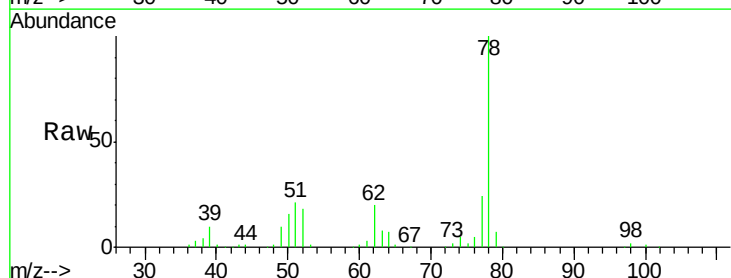
Manual Integrations
APPROVED

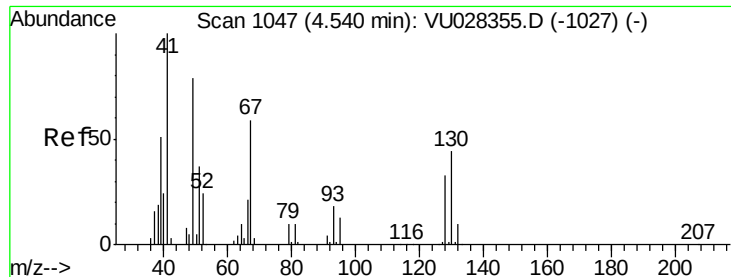
MMDadoda
11/29/2018 1:23:17 PM



#40
Benzene
Concen: 20.023 ug/l
RT: 5.39 min Scan# 1311
Delta R.T. 0.00 min
Lab File: VU028368.D
Acq: 28 Nov 2018 16:07

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.0	28.6





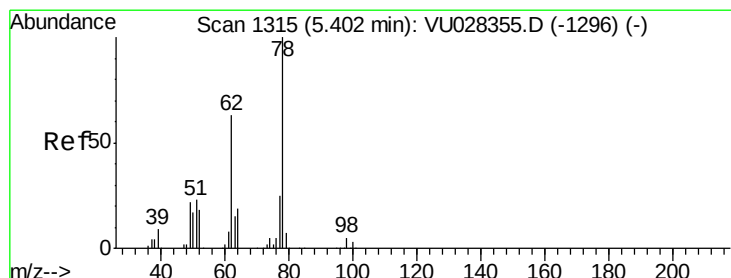
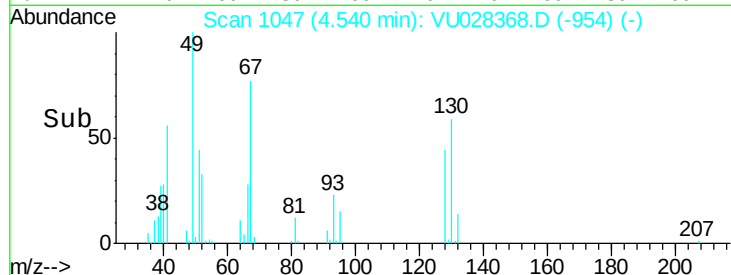
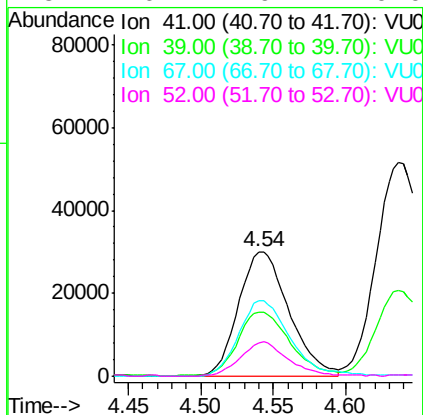
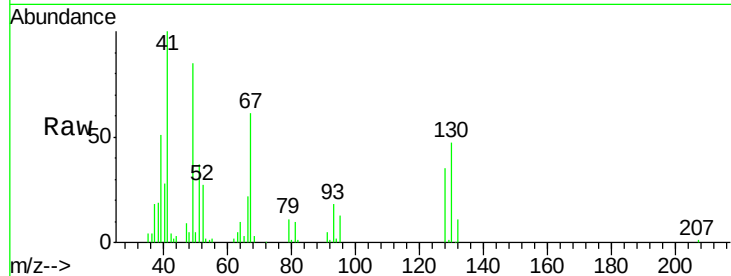
#41
Methacrylonitrile
Concen: 21.073 ug/l
RT: 4.54 min Scan# 1047
Delta R.T. 0.00 min
Lab File: VU028368.D
Acq: 28 Nov 2018 16:07

Instrument :
MSVOA_U
ClientSampleId :
VU1128WBS01

Tot Ion	Ion	Ratio	Lower	Upper
72921	41	100		
	39	53.8	41.3	61.9
	67	61.6	48.6	73.0
	52	26.1	19.4	29.0

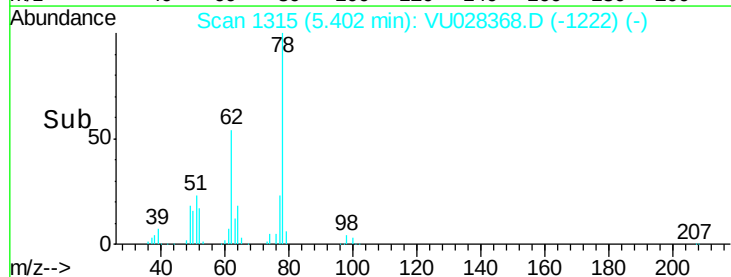
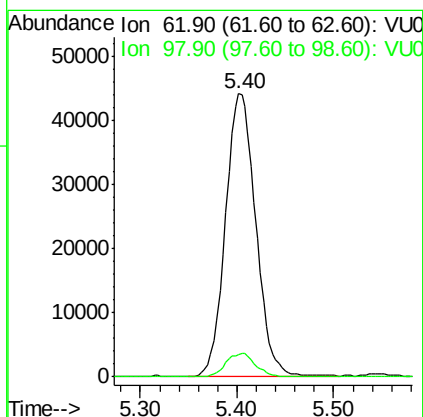
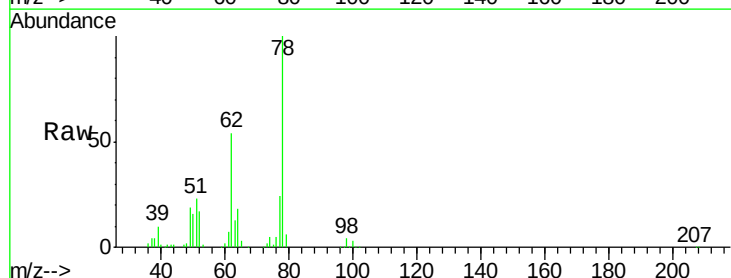
Manual Integrations
APPROVED

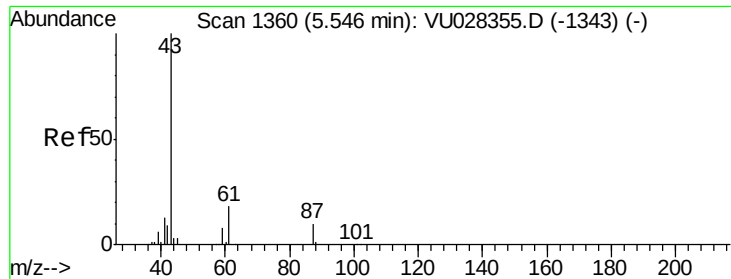
MMDadoda
11/29/2018 1:23:17 PM



#42
1,2-Dichloroethane
Concen: 19.784 ug/l
RT: 5.40 min Scan# 1315
Delta R.T. 0.00 min
Lab File: VU028368.D
Acq: 28 Nov 2018 16:07

Tgt Ion	Ion	Ratio	Lower	Upper
96520	62	100		
	98	8.0	0.0	15.4





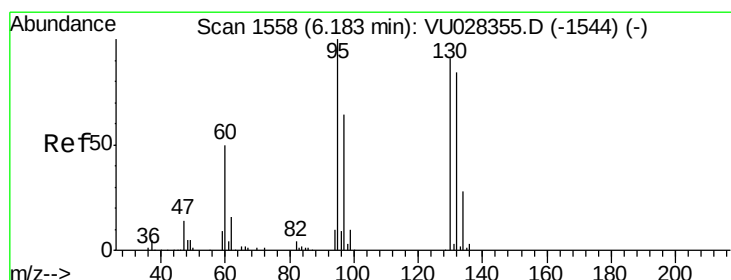
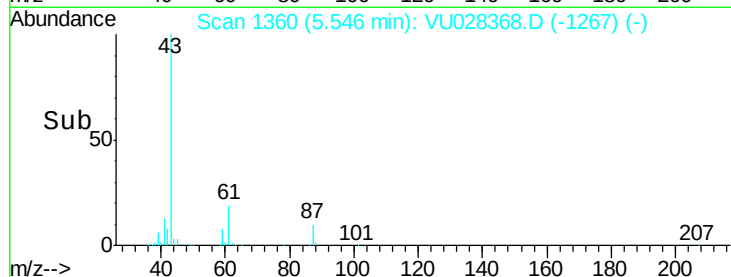
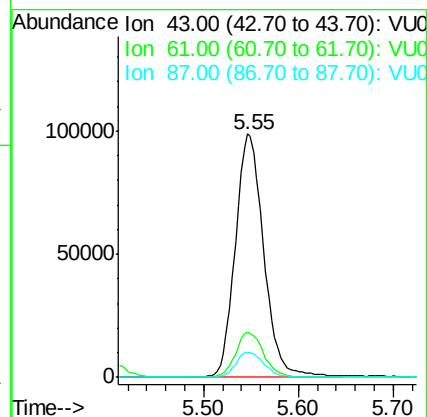
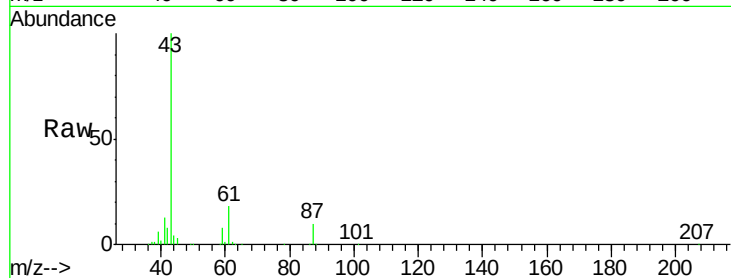
#43
Isopropyl Acetate
Concen: 20.797 ug/l
RT: 5.55 min Scan# 1360
Delta R.T. 0.00 min
Lab File: VU028368.D
Acq: 28 Nov 2018 16:07

Instrument :
MSVOA_U
ClientSampleId :
VU1128WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	18.2	14.5	21.7
87	10.5	8.4	12.6

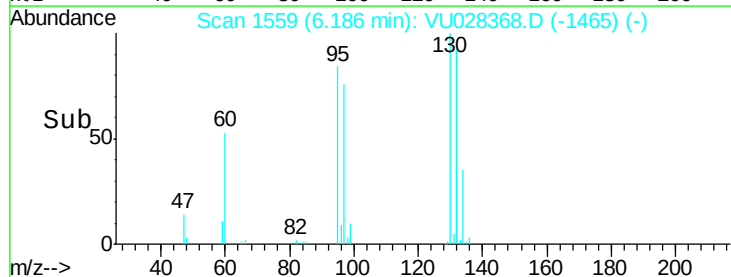
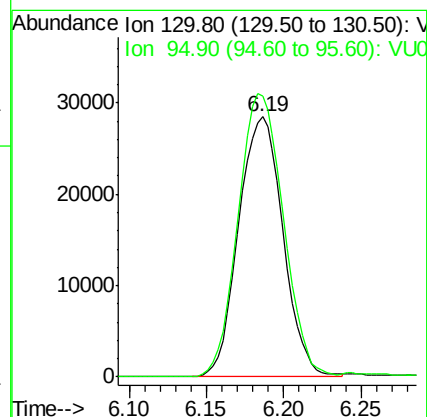
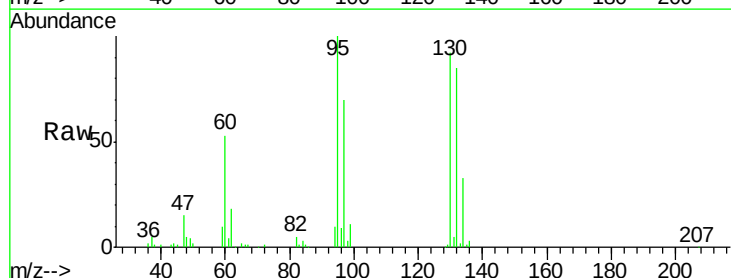
Manual Integrations
APPROVED

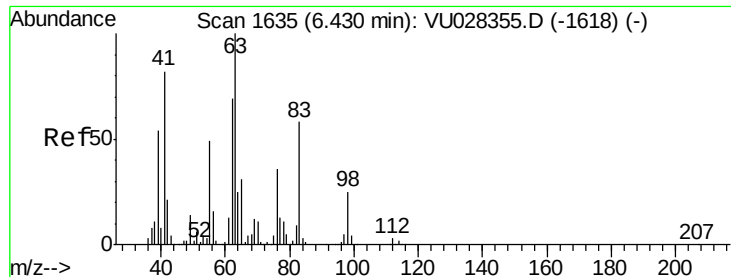
MMDadoda
11/29/2018 1:23:17 PM



#44
Trichloroethene
Concen: 19.571 ug/l
RT: 6.19 min Scan# 1559
Delta R.T. 0.00 min
Lab File: VU028368.D
Acq: 28 Nov 2018 16:07

Tgt Ion	Ratio	Lower	Upper
130	100		
95	108.2	0.0	219.8





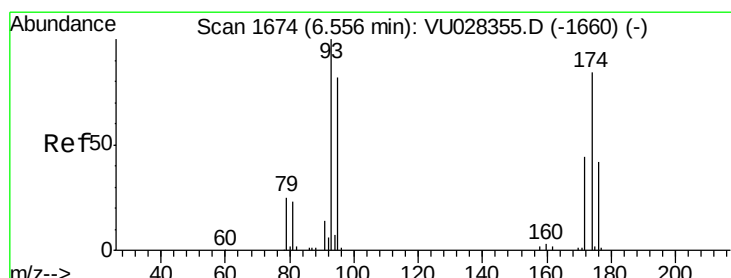
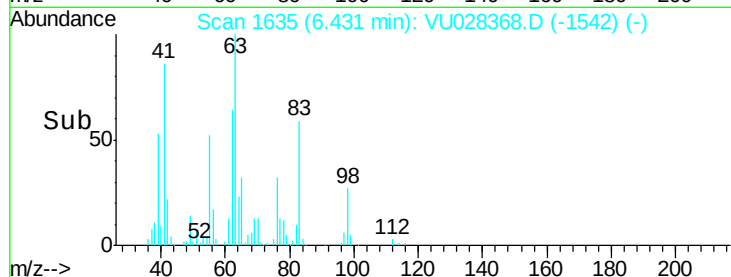
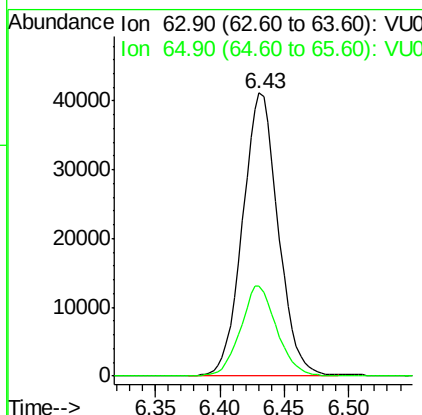
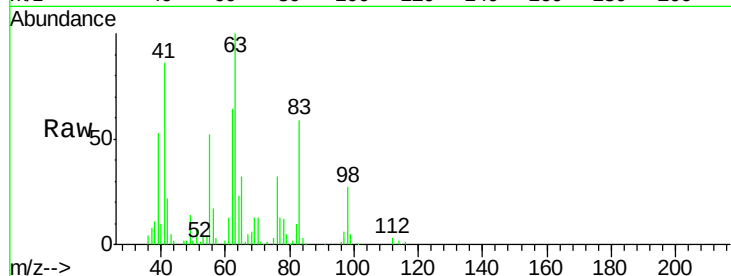
#45
 1,2-Dichloropropane
 Concen: 19.998 ug/l
 RT: 6.43 min Scan# 1635
 Delta R.T. 0.00 min
 Lab File: VU028368.D
 Acq: 28 Nov 2018 16:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1128WBS01

Tot Ion: 63 Resp: 79309
 Ion Ratio Lower Upper
 63 100
 65 31.9 25.1 37.7

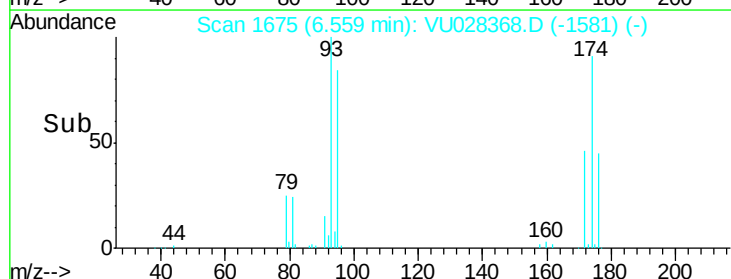
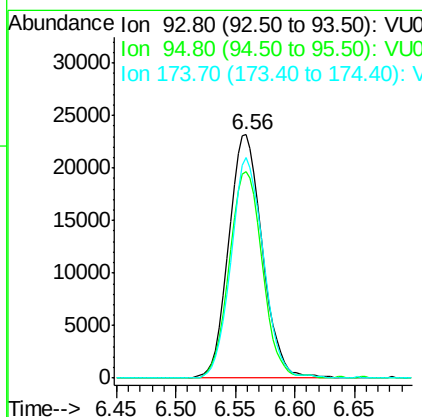
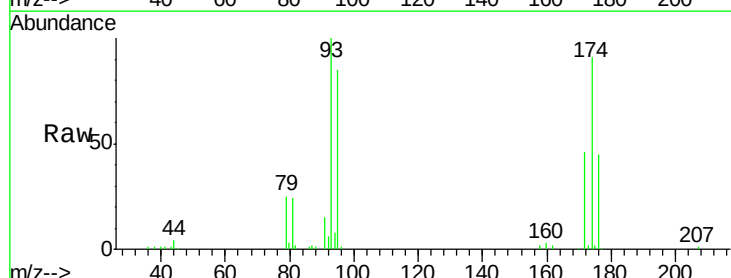
Manual Integrations
 APPROVED

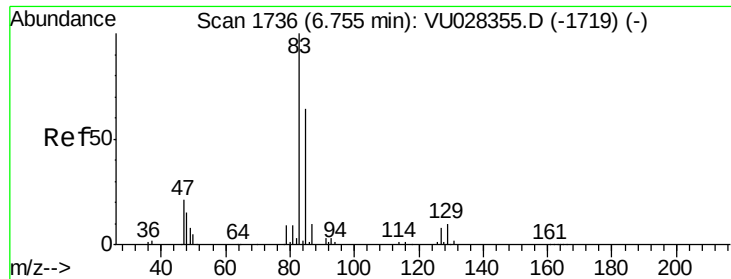
MMDadoda
 11/29/2018 1:23:17 PM



#46
 Dibromomethane
 Concen: 19.923 ug/l
 RT: 6.56 min Scan# 1675
 Delta R.T. 0.00 min
 Lab File: VU028368.D
 Acq: 28 Nov 2018 16:07

Tgt Ion: 93 Resp: 45383
 Ion Ratio Lower Upper
 93 100
 95 83.5 65.1 97.7
 174 87.1 69.9 104.9





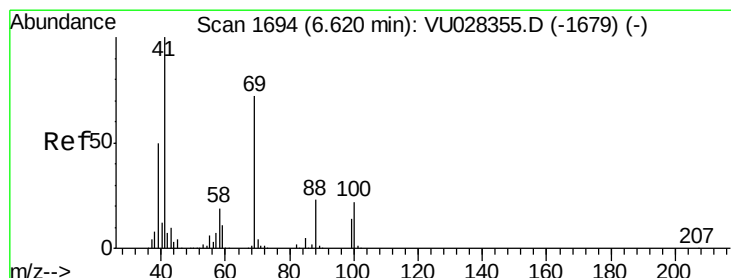
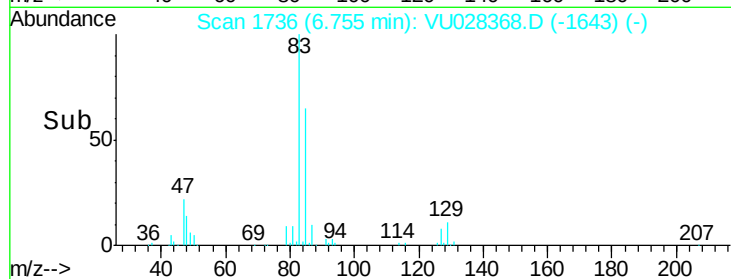
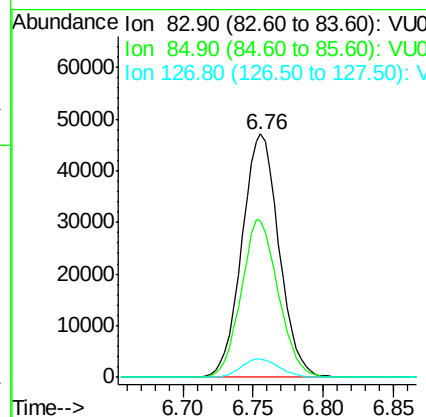
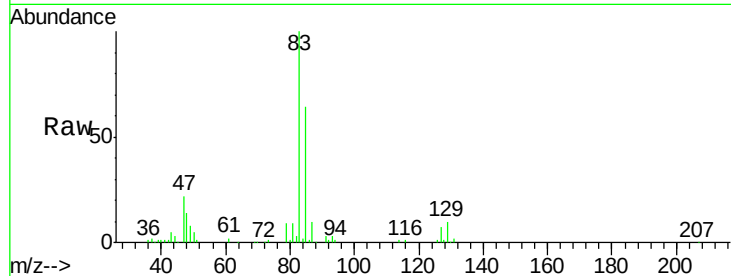
#47
Bromodichloromethane
Concen: 19.164 ug/l
RT: 6.76 min Scan# 1736
Delta R.T. 0.00 min
Lab File: VU028368.D
Acq: 28 Nov 2018 16:07

Instrument :
MSVOA_U
ClientSampleId :
VU1128WBS01

Tot Ion	83	Resp	86832
Ion Ratio	100	Lower	Upper
83	100		
85	64.3	50.9	76.3
127	7.4	6.2	9.4

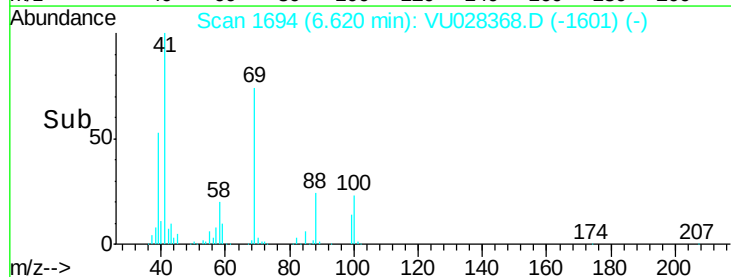
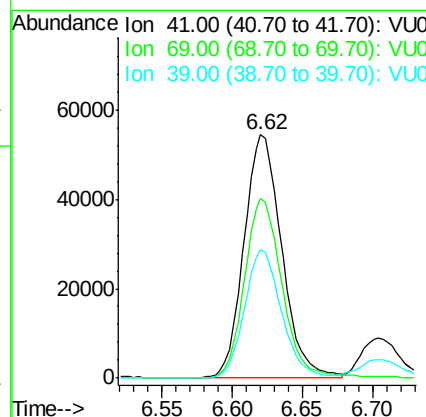
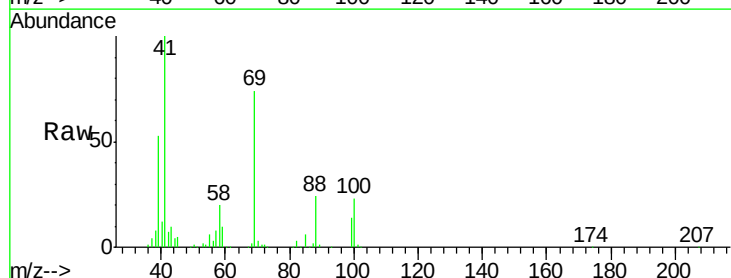
Manual Integrations
APPROVED

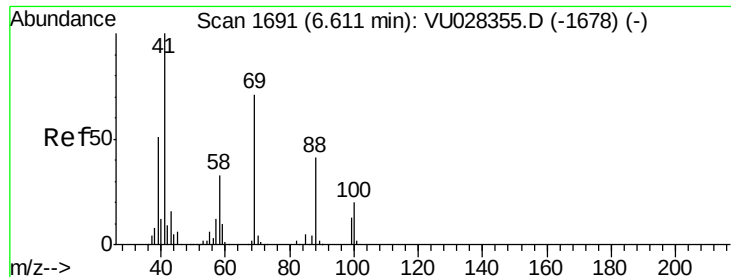
MMDadoda
11/29/2018 1:23:17 PM



#48
Methyl methacrylate
Concen: 19.939 ug/l
RT: 6.62 min Scan# 1694
Delta R.T. 0.00 min
Lab File: VU028368.D
Acq: 28 Nov 2018 16:07

Tgt Ion	41	Resp	102555
Ion Ratio	100	Lower	Upper
41	100		
69	72.9	59.0	88.4
39	51.4	40.5	60.7





#49

1,4-Dioxane

Concen: 378.829 ug/l

RT: 6.61 min Scan# 1691

Delta R.T. 0.00 min

Lab File: VU028368.D

Acq: 28 Nov 2018 16:07

Instrument :

MSVOA_U

ClientSampleId :

VU1128WBS01

Tot Ion: 88 Resp: 31128

Ion Ratio Lower Upper

88 100

43 40.9 32.6 48.8

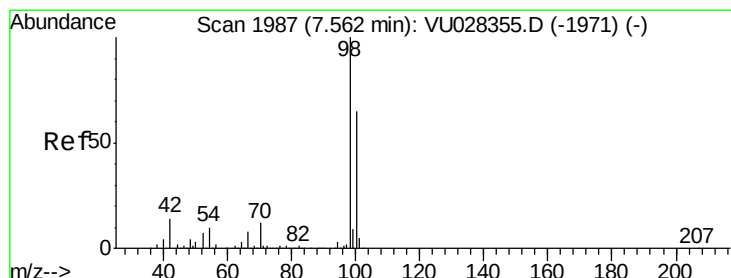
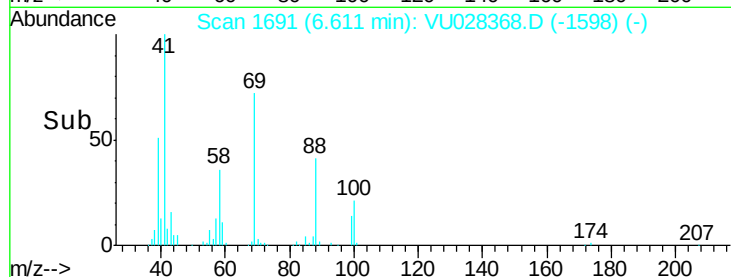
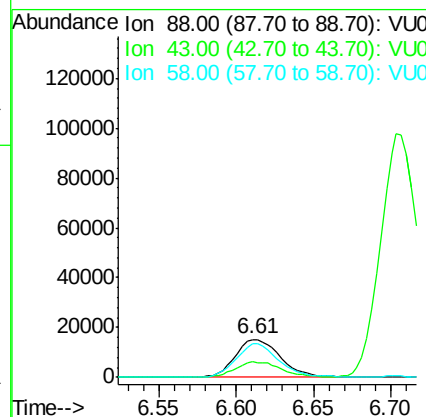
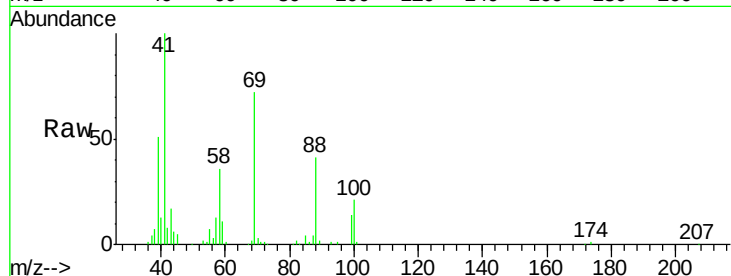
58 83.4 68.7 103.1

Manual Integrations

APPROVED

MMDadoda

11/29/2018 1:23:17 PM



#50

Toluene-d8

Concen: 48.220 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VU028368.D

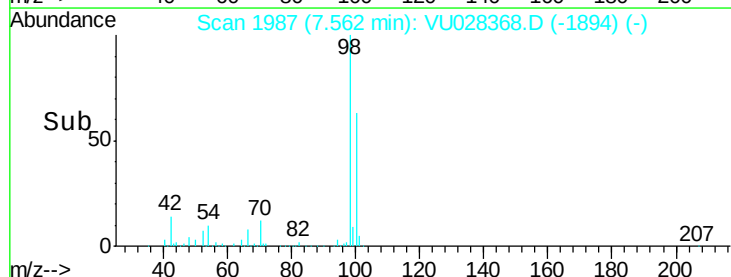
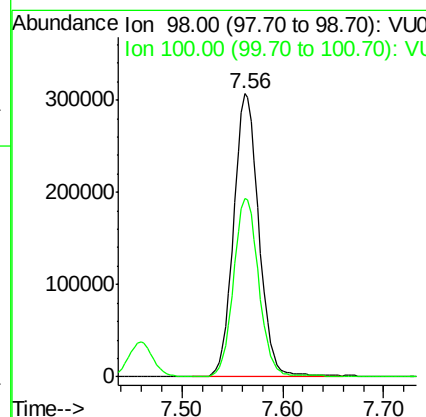
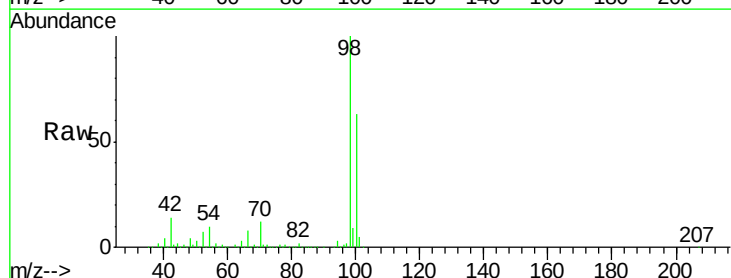
Acq: 28 Nov 2018 16:07

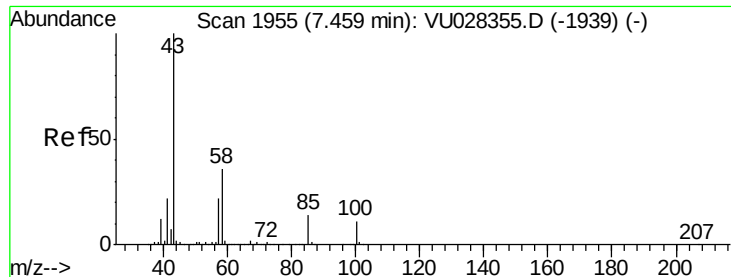
Tgt Ion: 98 Resp: 535830

Ion Ratio Lower Upper

98 100

100 63.0 50.8 76.2





#51

4-Methyl-2-Pentanone

Concen: 101.827 ug/l

RT: 7.46 min Scan# 1955

Delta R.T. 0.00 min

Lab File: VU028368.D

Acq: 28 Nov 2018 16:07

Instrument :

MSVOA_U

ClientSampleId :

VU1128WBS01

Tot Ion: 43 Resp: 642179

Ion Ratio Lower Upper

43 100

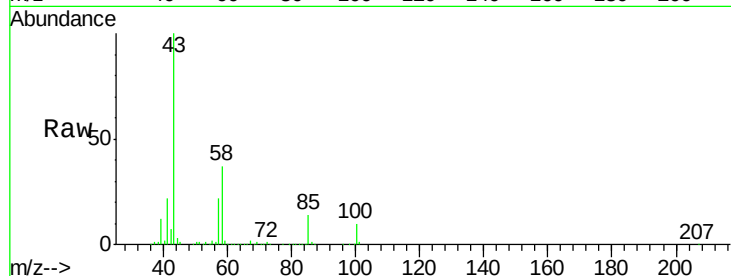
58 36.7 28.8 43.2

Manual Integrations

APPROVED

MMDadoda

11/29/2018 1:23:17 PM



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

7.46

400000

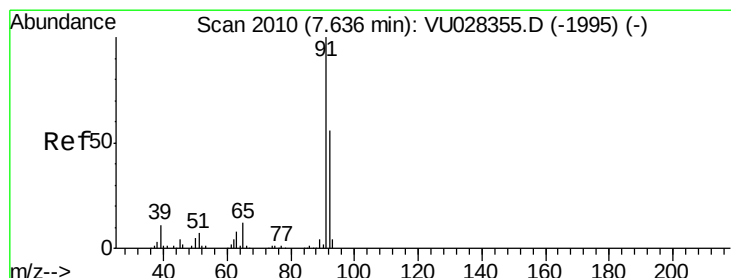
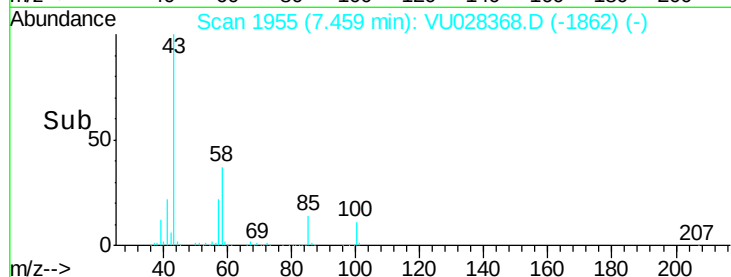
300000

200000

100000

0

Time--> 7.35 7.40 7.45 7.50 7.55



#52

Toluene

Concen: 20.282 ug/l

RT: 7.64 min Scan# 2010

Delta R.T. 0.00 min

Lab File: VU028368.D

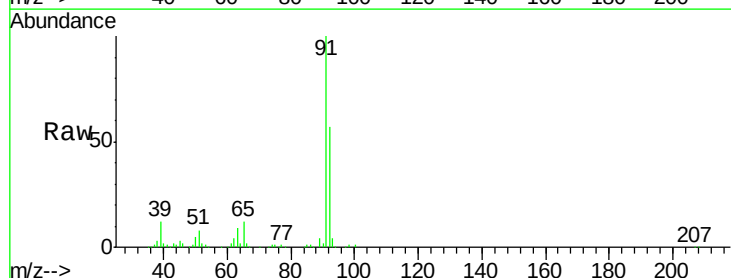
Acq: 28 Nov 2018 16:07

Tgt Ion: 92 Resp: 158166

Ion Ratio Lower Upper

92 100

91 176.5 141.8 212.6



Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0

7.64

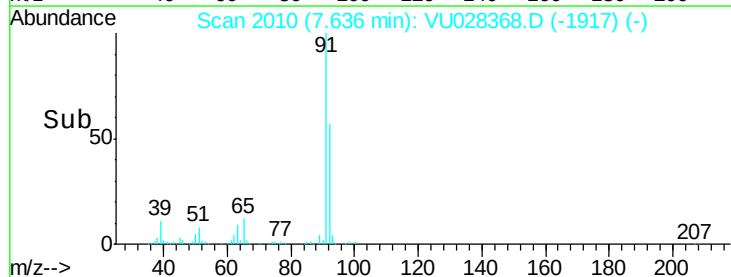
150000

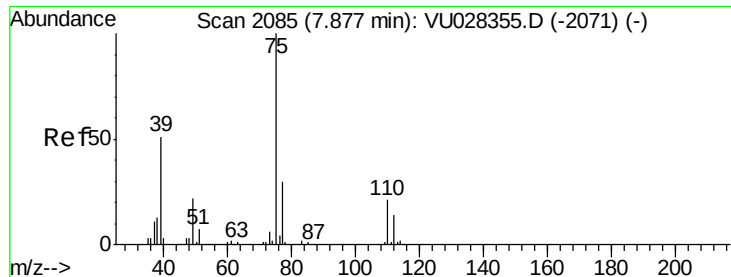
100000

50000

0

Time--> 7.55 7.60 7.65 7.70 7.75





#53

t-1,3-Dichloropropene

Concen: 18.959 ug/l

RT: 7.88 min Scan# 2085

Delta R.T. 0.00 min

Lab File: VU028368.D

Acq: 28 Nov 2018 16:07

Instrument :

MSVOA_U

ClientSampleId :

VU1128WBS01

Tot Ion: 75 Resp: 102718

Ion Ratio Lower Upper

75 100

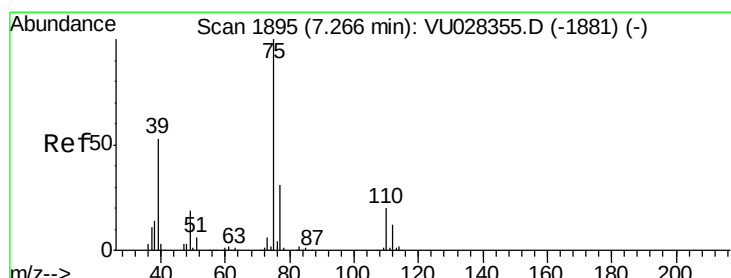
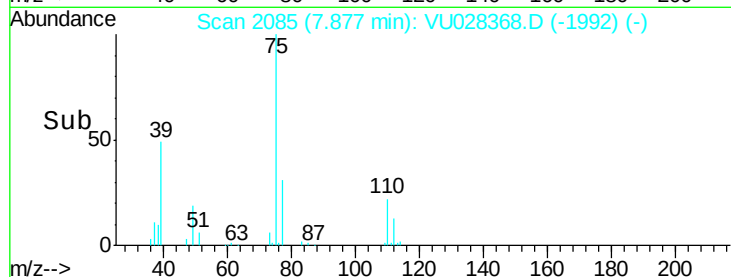
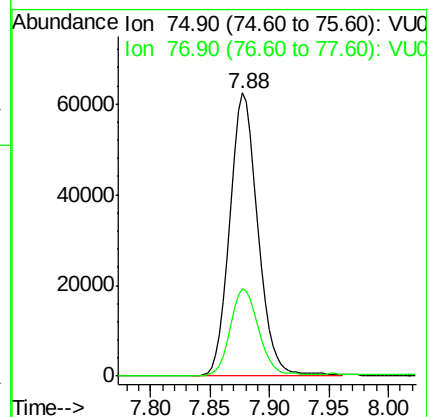
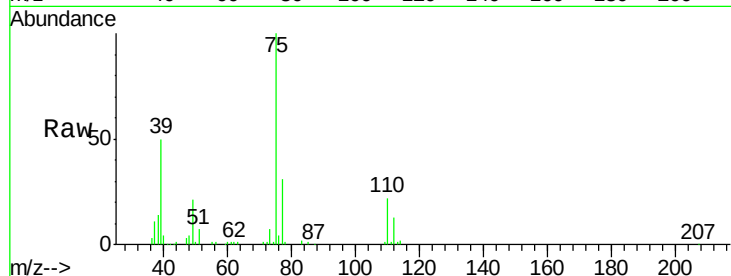
77 30.9 24.1 36.1

Manual Integrations

APPROVED

MMDadoda

11/29/2018 1:23:17 PM



#54

cis-1,3-Dichloropropene

Concen: 19.206 ug/l

RT: 7.27 min Scan# 1895

Delta R.T. 0.00 min

Lab File: VU028368.D

Acq: 28 Nov 2018 16:07

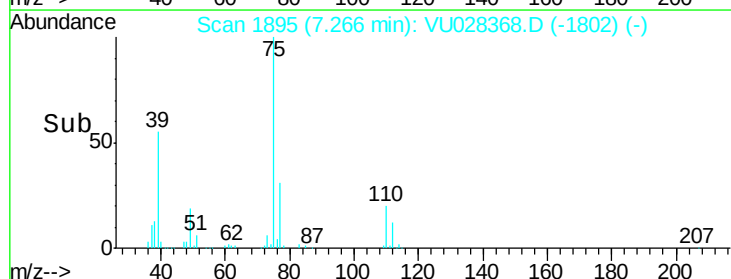
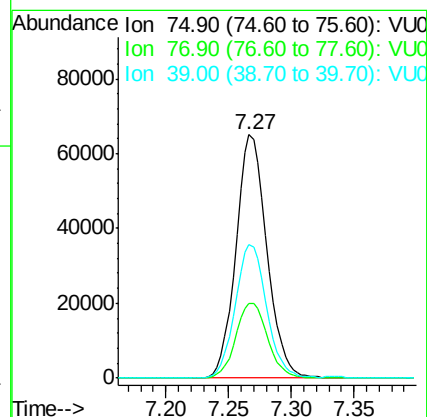
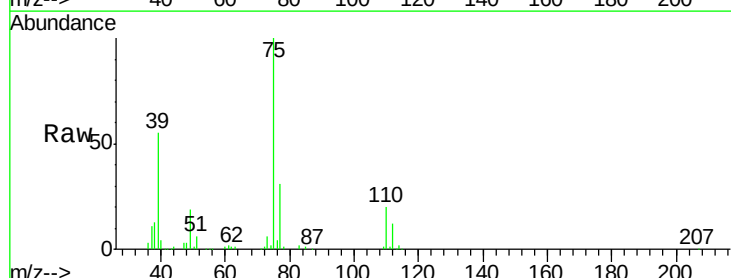
Tgt Ion: 75 Resp: 111476

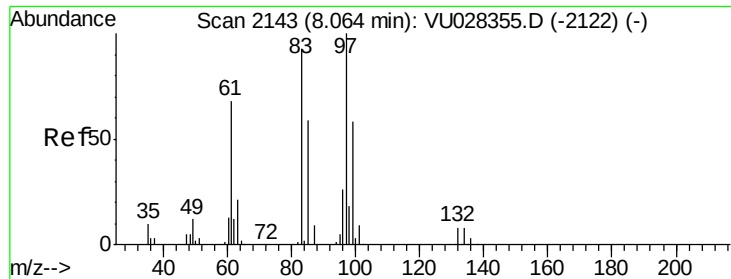
Ion Ratio Lower Upper

75 100

77 30.6 24.9 37.3

39 54.7 42.6 64.0





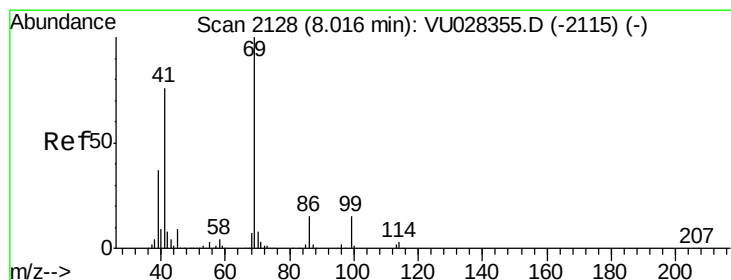
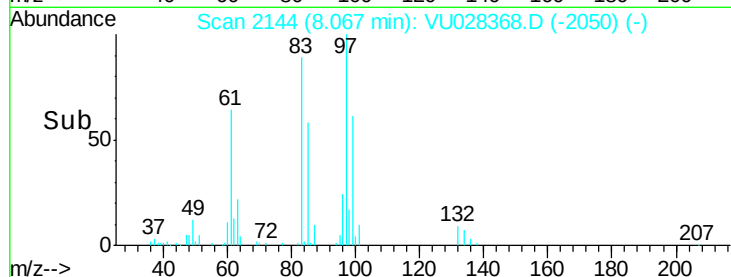
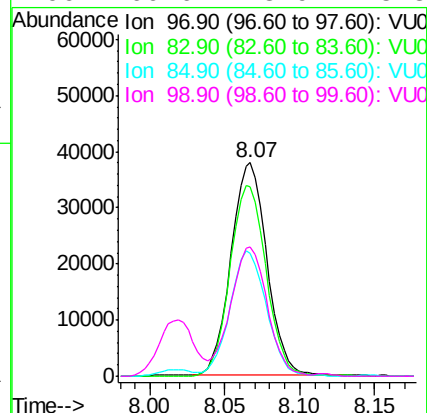
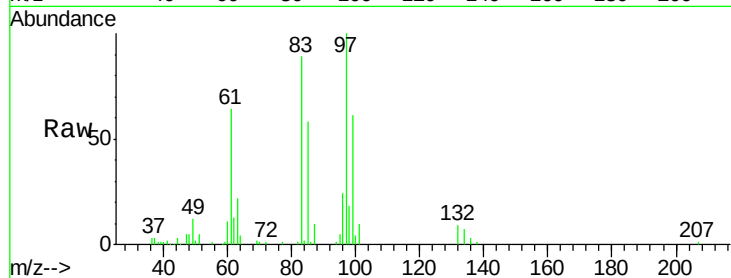
#55
 1,1,2-Trichloroethane
 Concen: 19.544 ug/l
 RT: 8.07 min Scan# 2144
 Delta R.T. 0.00 min
 Lab File: VU028368.D
 Acq: 28 Nov 2018 16:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1128WBS01

Tot Ion:	97	Resp:	63433
Ion	Ratio	Lower	Upper
97	100		
83	89.1	74.3	111.5
85	57.7	47.2	70.8
99	60.6	48.9	73.3

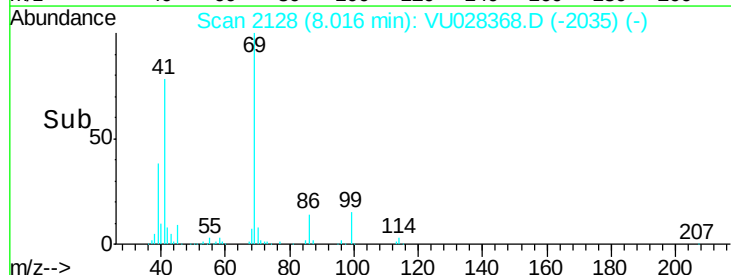
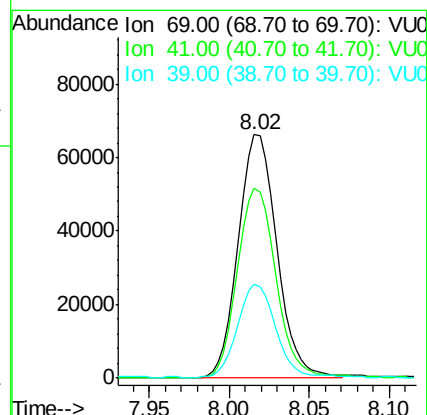
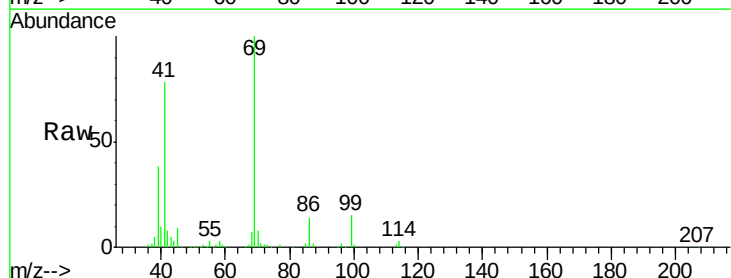
Manual Integrations
 APPROVED

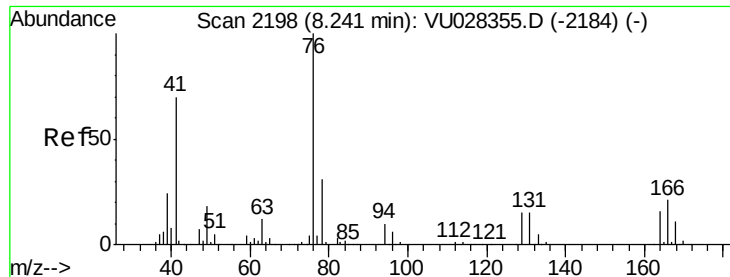
MMDadoda
 11/29/2018 1:23:17 PM



#56
 Ethyl methacrylate
 Concen: 19.829 ug/l
 RT: 8.02 min Scan# 2128
 Delta R.T. 0.00 min
 Lab File: VU028368.D
 Acq: 28 Nov 2018 16:07

Tgt Ion:	69	Resp:	109485
Ion	Ratio	Lower	Upper
69	100		
41	78.5	60.0	90.0
39	37.5	29.0	43.6





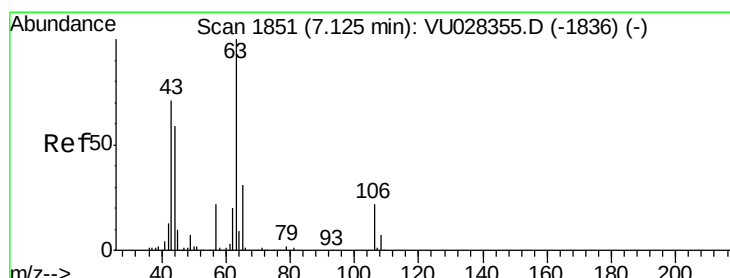
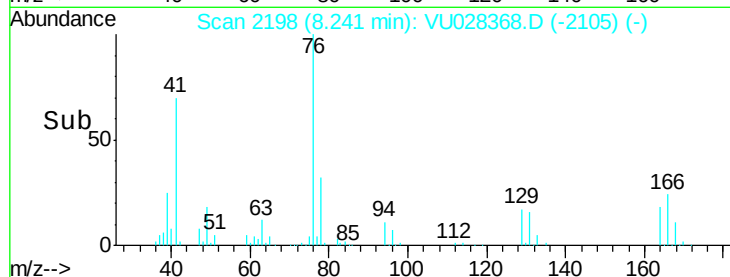
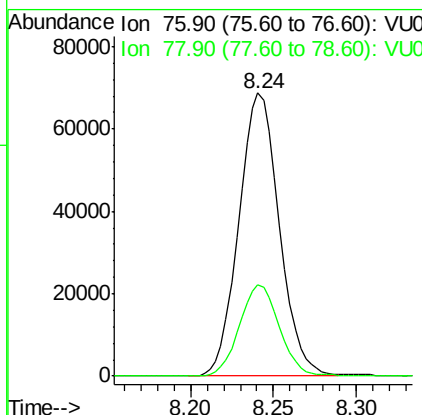
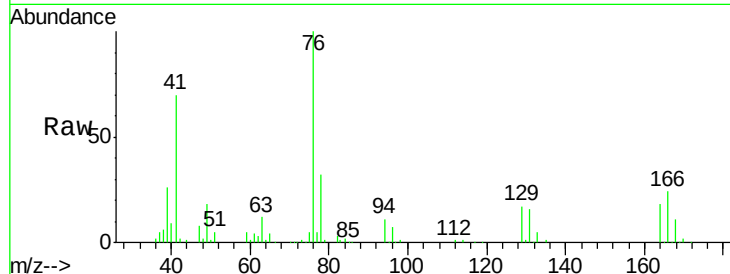
#57
 1,3-Dichloropropane
 Concen: 19.552 ug/l
 RT: 8.24 min Scan# 2198
 Delta R.T. 0.00 min
 Lab File: VU028368.D
 Acq: 28 Nov 2018 16:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1128WBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	31.8	25.4	38.0

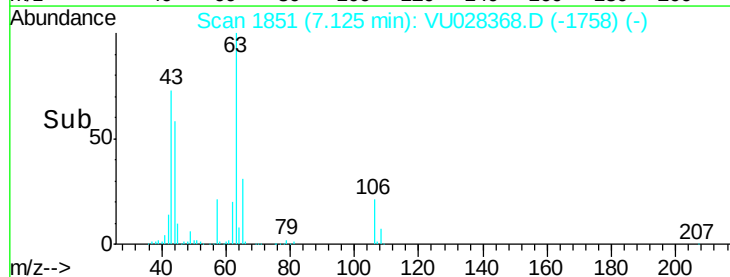
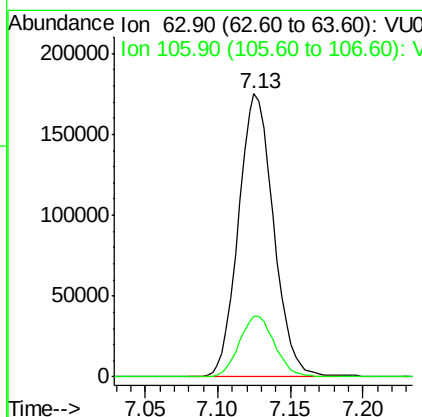
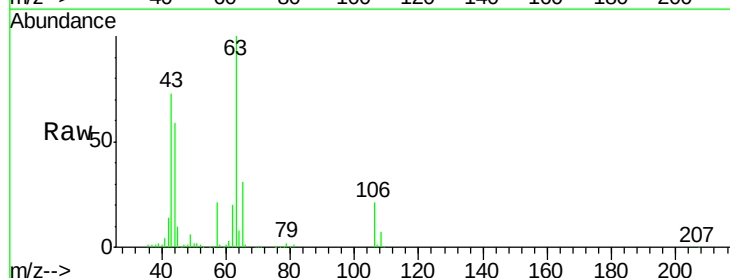
Manual Integrations
 APPROVED

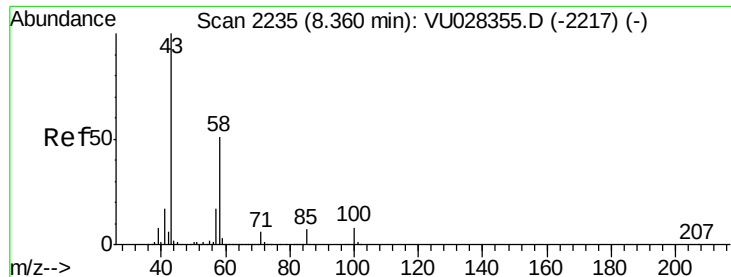
MMDadoda
 11/29/2018 1:23:17 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 99.397 ug/l
 RT: 7.13 min Scan# 1851
 Delta R.T. 0.00 min
 Lab File: VU028368.D
 Acq: 28 Nov 2018 16:07

Tgt Ion	Ratio	Lower	Upper
63	100		
106	21.7	17.3	25.9





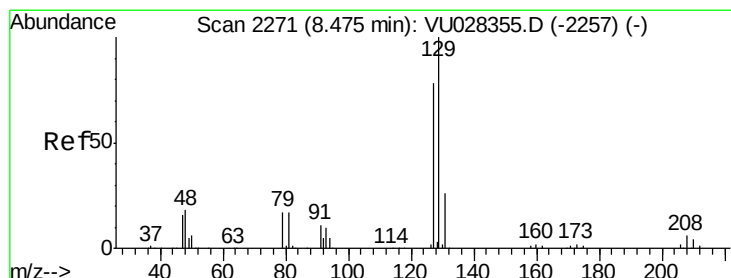
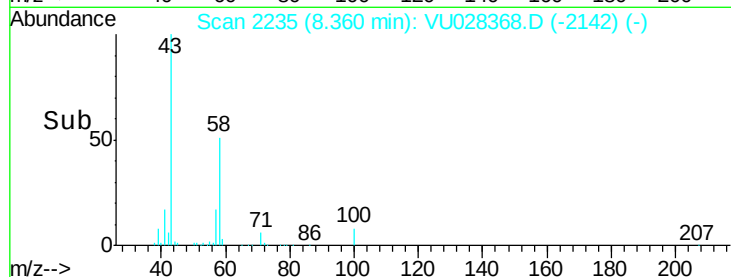
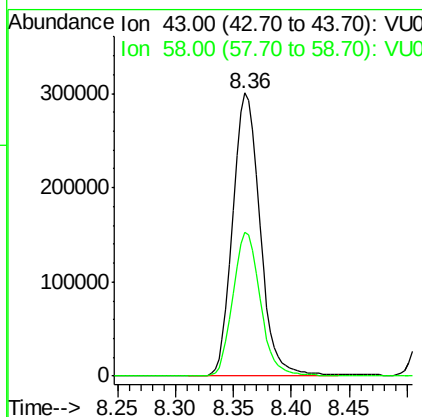
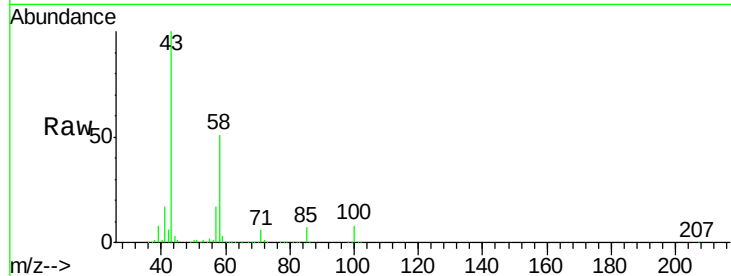
#59
2-Hexanone
Concen: 100.029 ug/l
RT: 8.36 min Scan# 2235
Delta R.T. 0.00 min
Lab File: VU028368.D
Acq: 28 Nov 2018 16:07

Instrument :
MSVOA_U
ClientSampleId :
VU1128WBS01

Tot Ion	43	Resp	488647
Ion Ratio	100	Lower	Upper
58	51.1	25.5	76.5

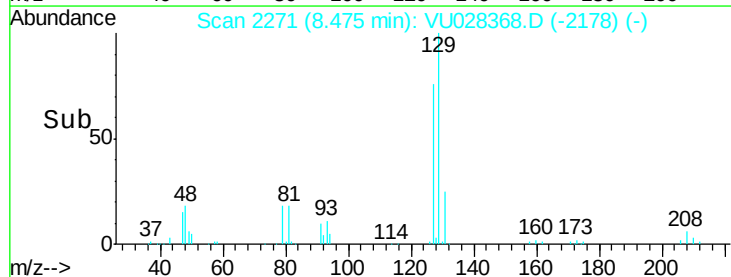
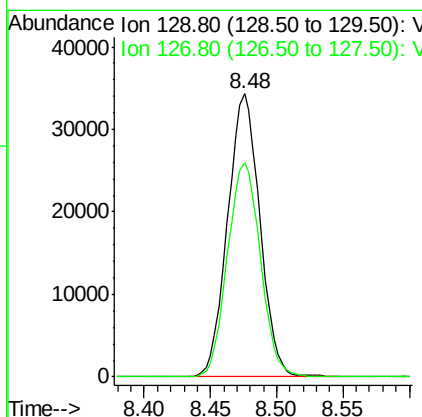
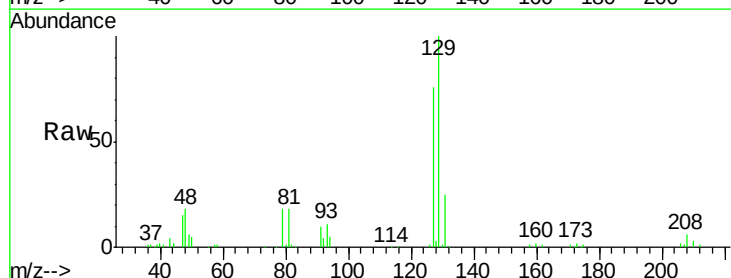
Manual Integrations
APPROVED

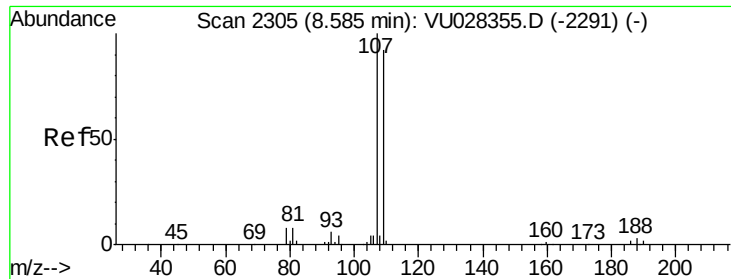
MMDadoda
11/29/2018 1:23:17 PM



#60
Dibromochloromethane
Concen: 18.844 ug/l
RT: 8.48 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VU028368.D
Acq: 28 Nov 2018 16:07

Tgt Ion	129	Resp	58167
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
127	76.9	38.9	116.7





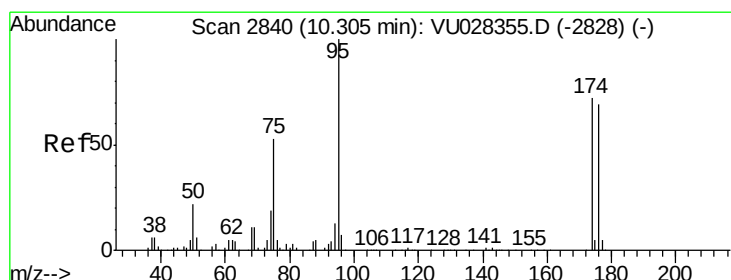
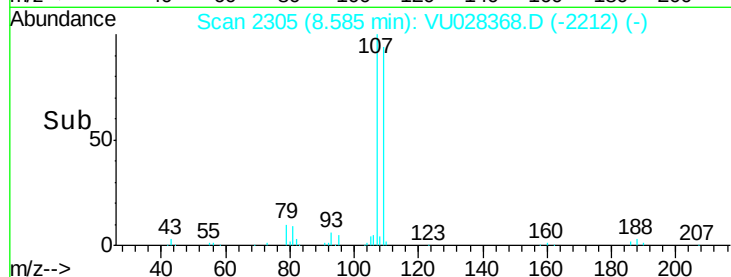
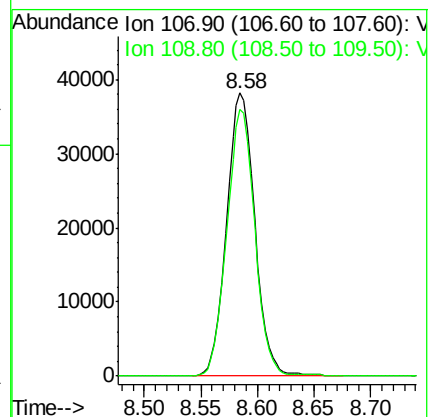
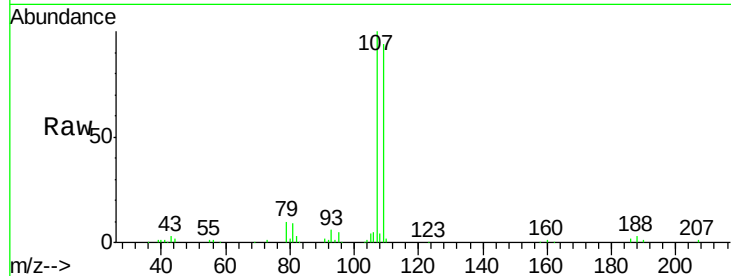
#61
 1,2-Dibromoethane
 Concen: 19.933 ug/l
 RT: 8.58 min Scan# 2305
 Delta R.T. 0.00 min
 Lab File: VU028368.D
 Acq: 28 Nov 2018 16:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1128WBS01

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.0	73.2	109.8

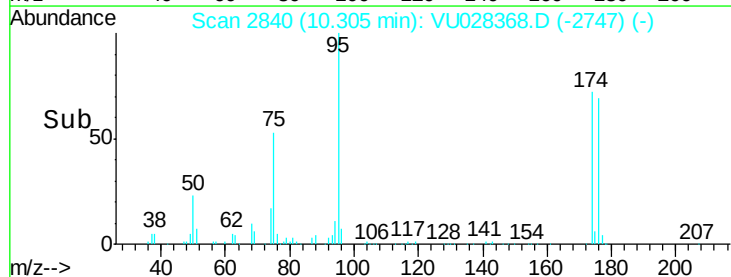
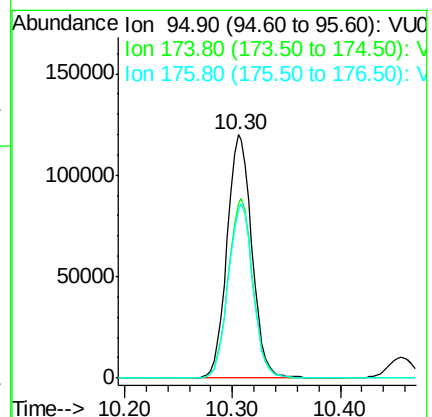
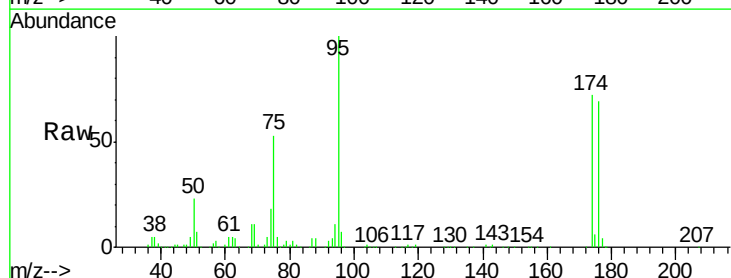
Manual Integrations
 APPROVED

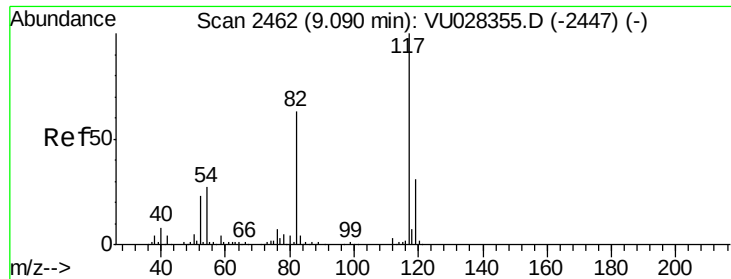
MMDadoda
 11/29/2018 1:23:17 PM



#62
 4-Bromofluorobenzene
 Concen: 48.028 ug/l
 RT: 10.30 min Scan# 2840
 Delta R.T. 0.00 min
 Lab File: VU028368.D
 Acq: 28 Nov 2018 16:07

Tgt Ion	Ratio	Lower	Upper
95	100		
174	73.1	0.0	145.4
176	70.6	0.0	140.8





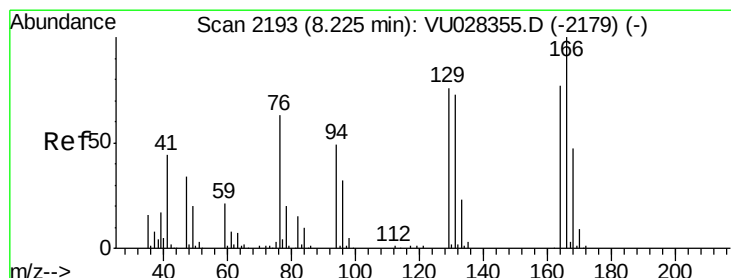
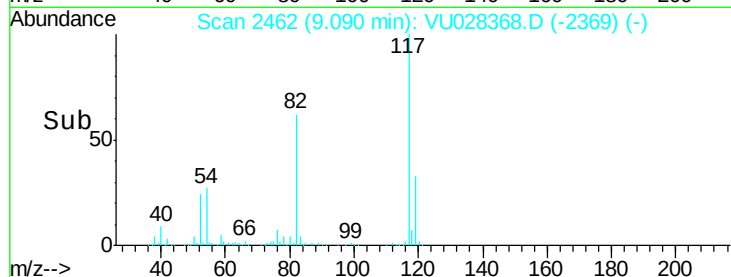
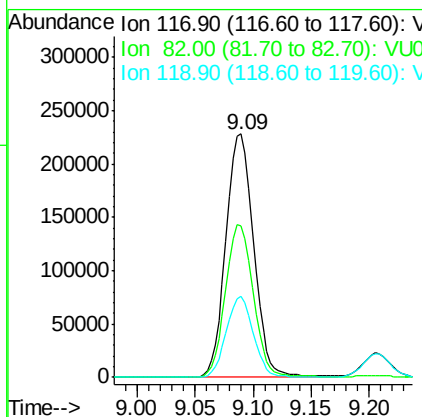
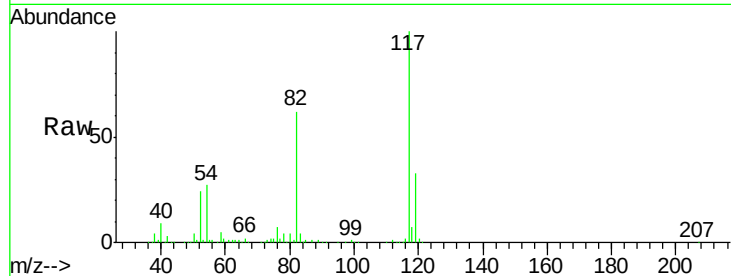
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. 0.00 min
Lab File: VU028368.D
Acq: 28 Nov 2018 16:07

Instrument :
MSVOA_U
ClientSampleId :
VU1128WBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	380114		
82	62.3	50.3	75.5	
119	33.1	24.8	37.2	

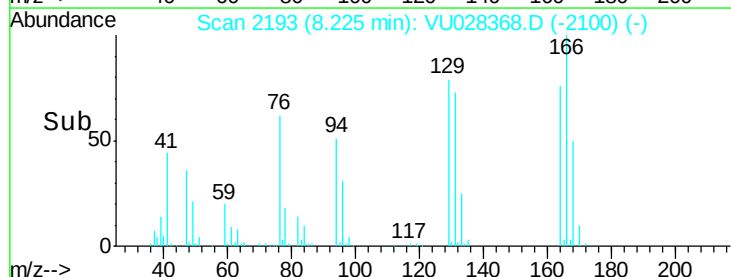
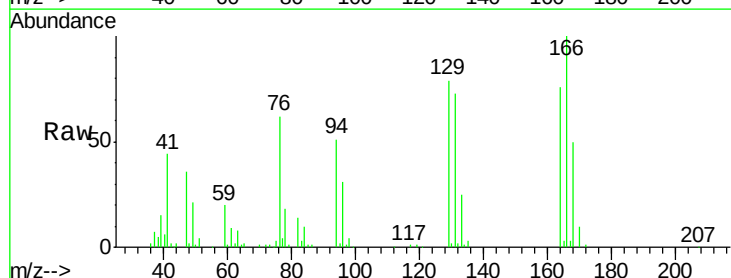
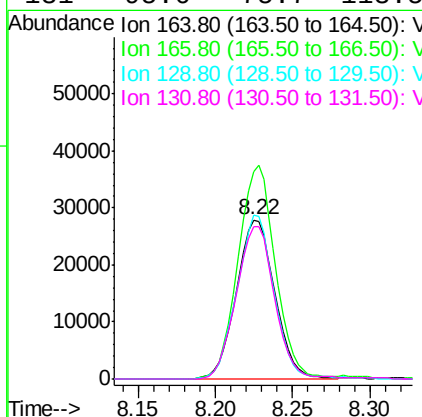
Manual Integrations
APPROVED

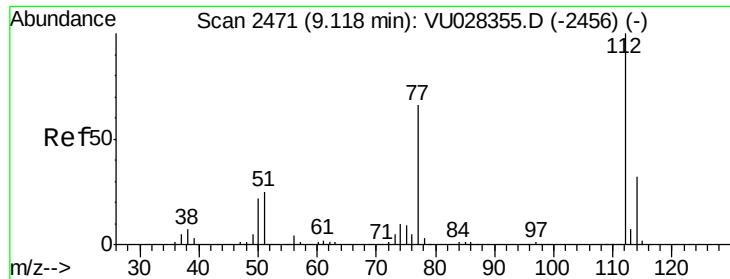
MMDadoda
11/29/2018 1:23:17 PM



#64
Tetrachloroethene
Concen: 19.301 ug/l
RT: 8.22 min Scan# 2193
Delta R.T. 0.00 min
Lab File: VU028368.D
Acq: 28 Nov 2018 16:07

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	48259		
166	130.8	104.0	156.0	
129	103.0	79.2	118.8	
131	95.6	75.7	113.5	





#65

Chlorobenzene

Concen: 19.836 ug/l

RT: 9.12 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VU028368.D

Acq: 28 Nov 2018 16:07

Instrument :

MSVOA_U

ClientSampleId :

VU1128WBS01

Tot Ion:112 Resp: 156558

Ion Ratio Lower Upper

112 100

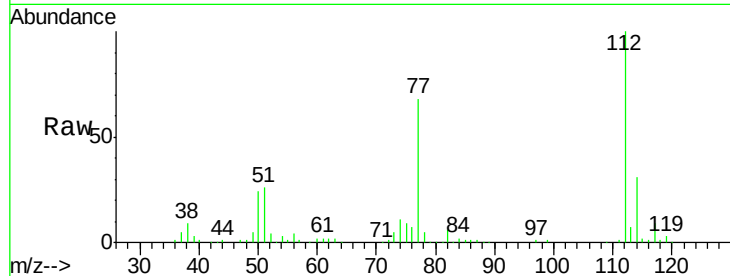
114 31.4 25.7 38.5

Manual Integrations

APPROVED

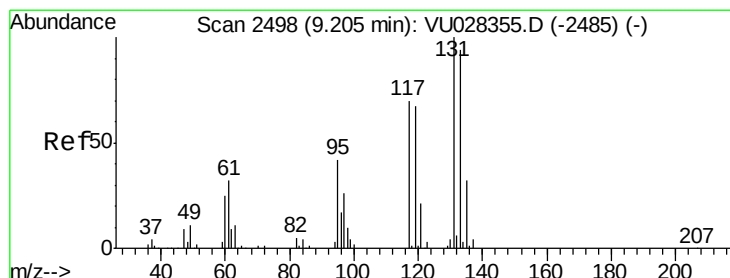
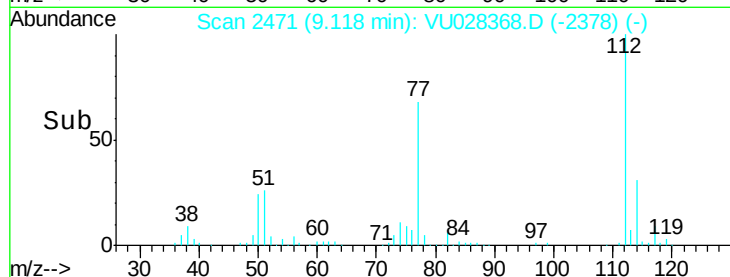
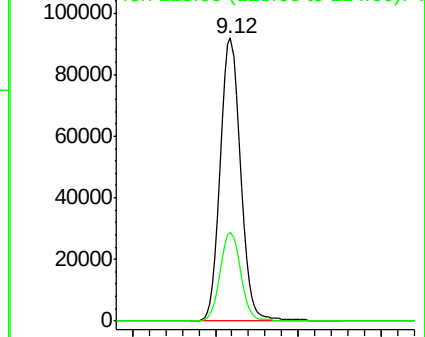
MMDadoda

11/29/2018 1:23:17 PM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 19.789 ug/l

RT: 9.21 min Scan# 2499

Delta R.T. 0.00 min

Lab File: VU028368.D

Acq: 28 Nov 2018 16:07

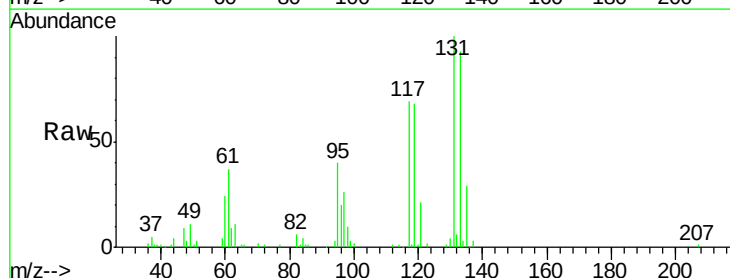
Tgt Ion:131 Resp: 53538

Ion Ratio Lower Upper

131 100

133 92.8 47.3 141.8

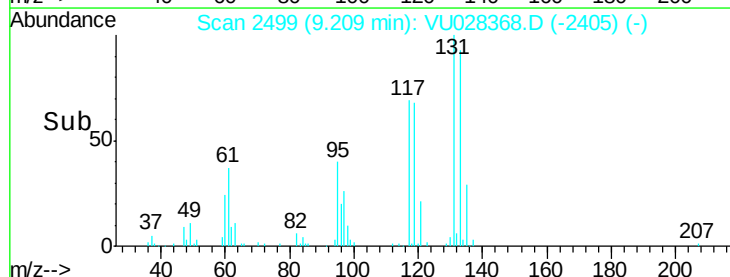
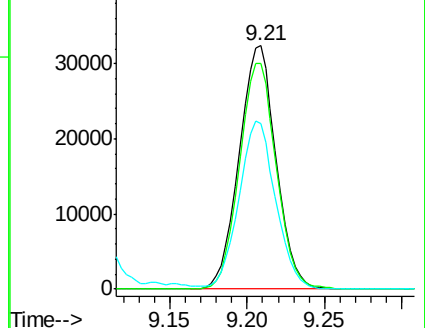
119 68.8 34.1 102.2

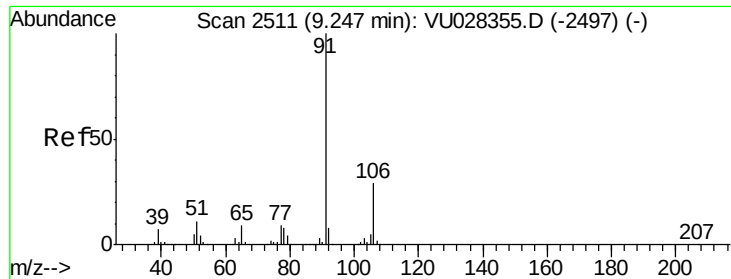


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 19.970 ug/l

RT: 9.25 min Scan# 2511

Delta R.T. 0.00 min

Lab File: VU028368.D

Acq: 28 Nov 2018 16:07

Instrument :

MSVOA_U

ClientSampleId :

VU1128WBS01

Tot Ion: 91 Resp: 296857

Ion Ratio Lower Upper

91 100

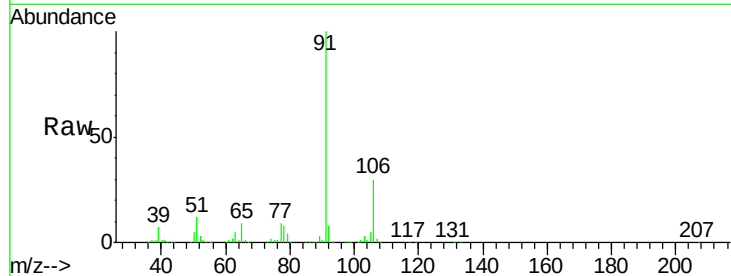
106 30.3 23.3 34.9

Manual Integrations

APPROVED

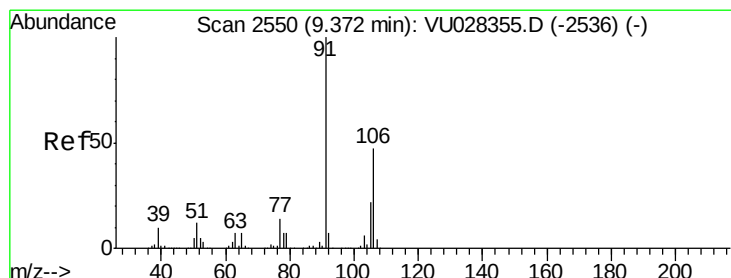
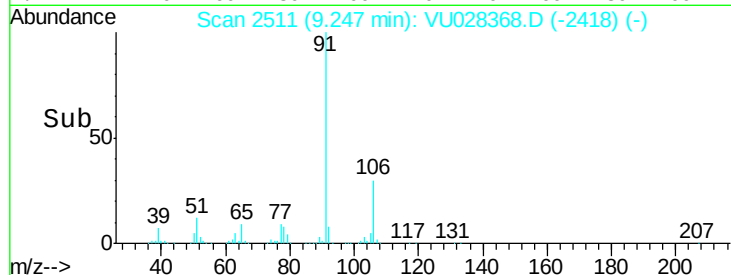
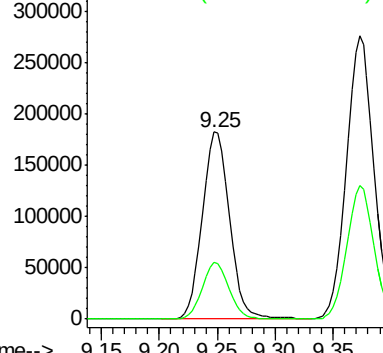
MMDadoda

11/29/2018 1:23:17 PM



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 40.314 ug/l

RT: 9.37 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VU028368.D

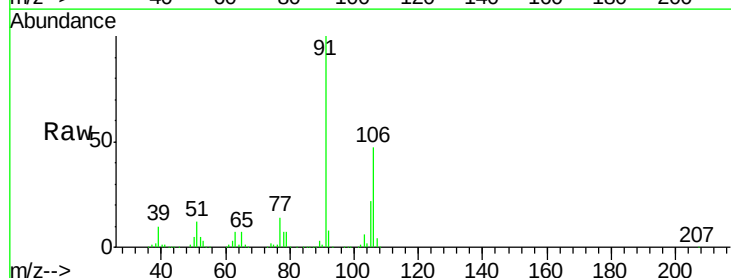
Acq: 28 Nov 2018 16:07

Tgt Ion: 106 Resp: 215703

Ion Ratio Lower Upper

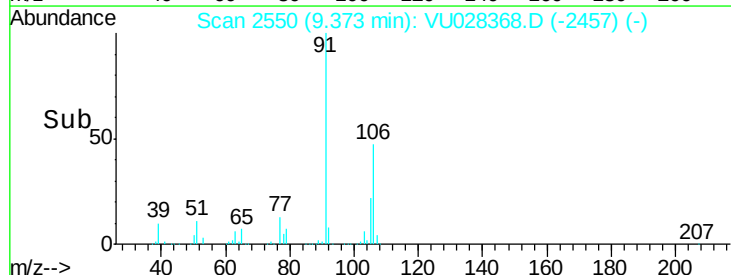
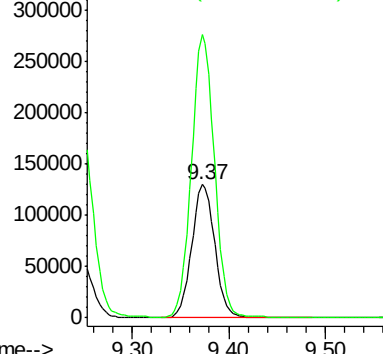
106 100

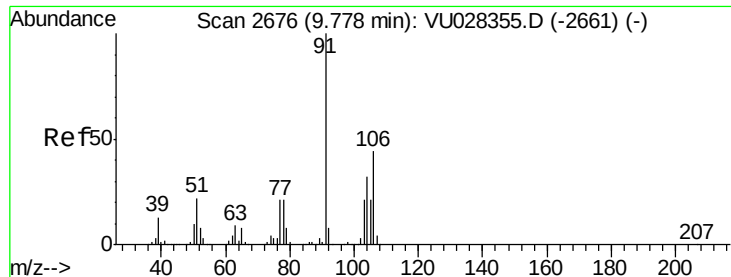
91 212.0 171.0 256.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





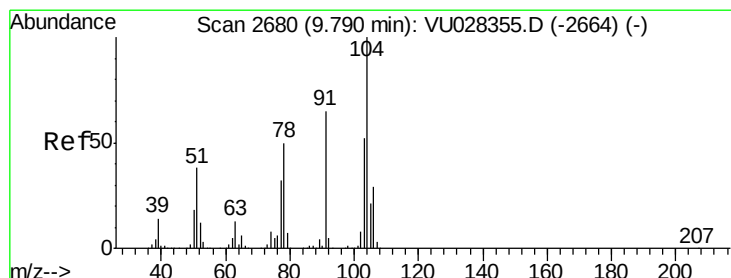
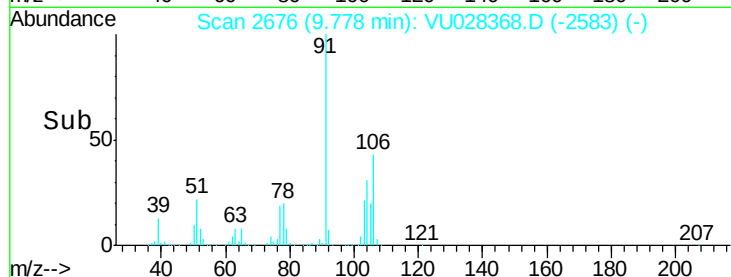
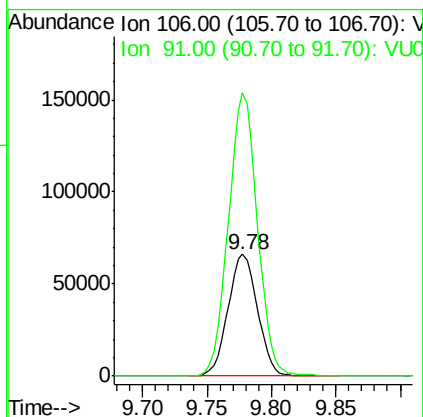
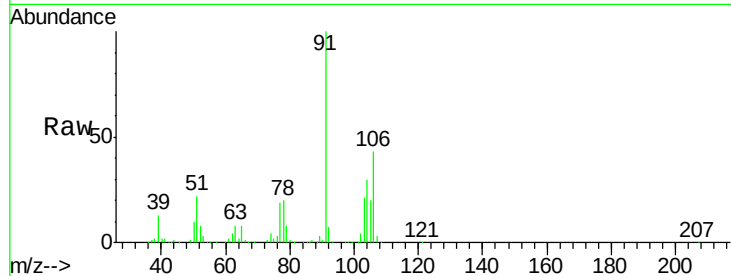
#69
o-Xylene
Concen: 19.757 ug/l
RT: 9.78 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VU028368.D
Acq: 28 Nov 2018 16:07

Instrument :
MSVOA_U
ClientSampleId :
VU1128WBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100				
91	228.2	112.7	338.0		

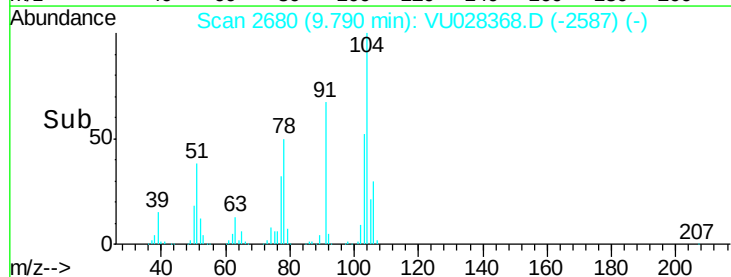
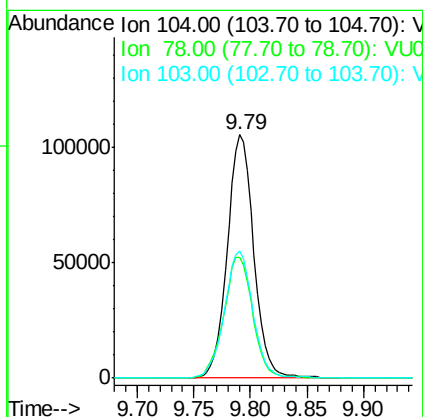
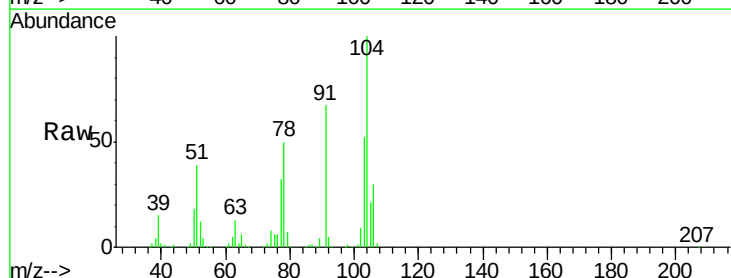
Manual Integrations
APPROVED

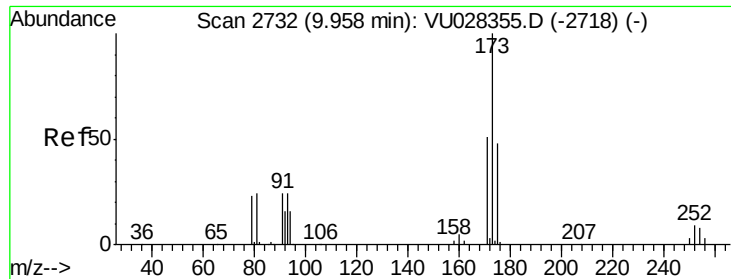
MMDadoda
11/29/2018 1:23:17 PM



#70
Styrene
Concen: 20.007 ug/l
RT: 9.79 min Scan# 2680
Delta R.T. 0.00 min
Lab File: VU028368.D
Acq: 28 Nov 2018 16:07

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100				
78	54.5	43.3	64.9		
103	56.1	44.8	67.2		





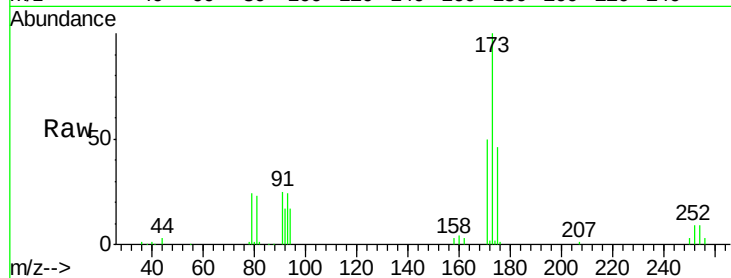
#71
Bromoform
Concen: 19.184 ug/l
RT: 9.96 min Scan# 2732
Delta R.T. 0.00 min
Lab File: VU028368.D
Acq: 28 Nov 2018 16:07

Instrument :
MSVOA_U
ClientSampleId :
VU1128WBS01

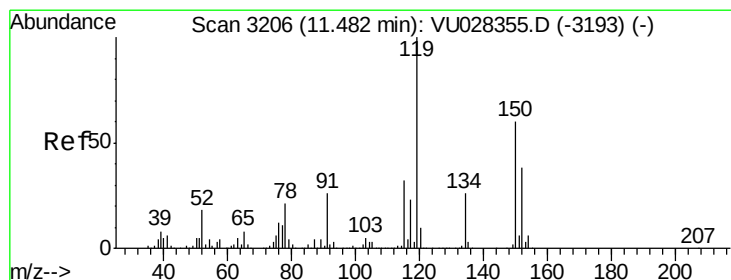
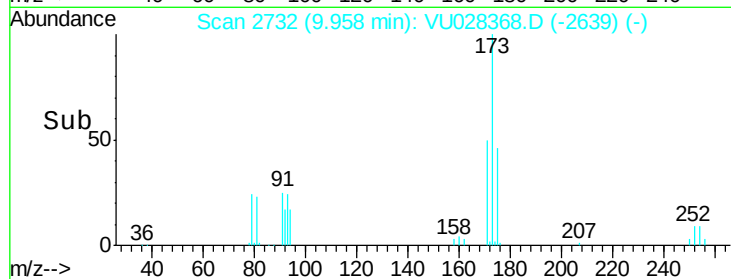
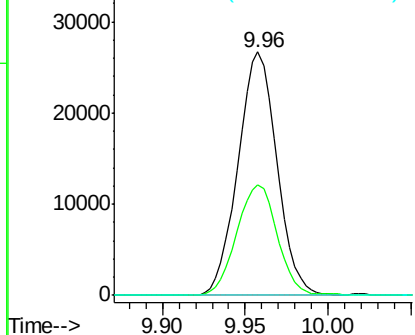
Tot Ion	Ratio	Lower	Upper
173	100		
175	47.2	24.1	72.4
254	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
11/29/2018 1:23:17 PM

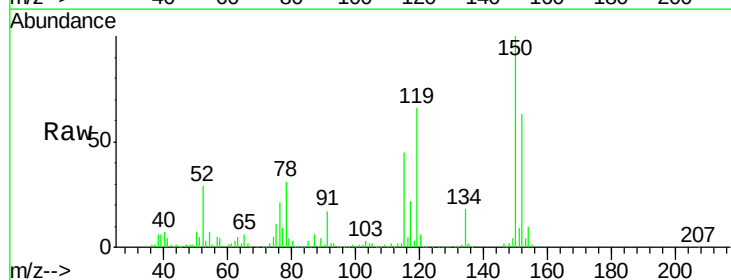


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

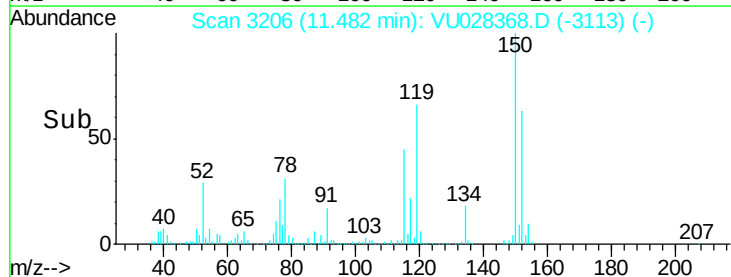
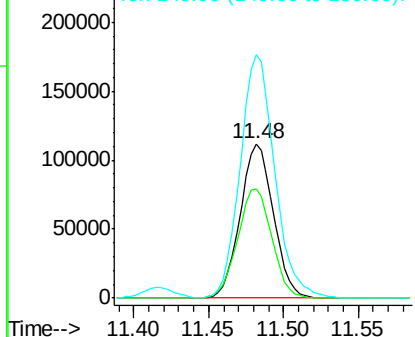


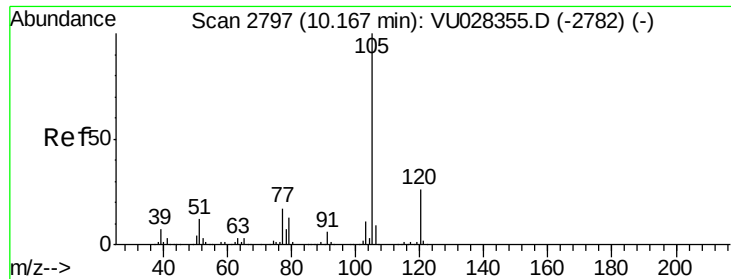
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3206
Delta R.T. 0.00 min
Lab File: VU028368.D
Acq: 28 Nov 2018 16:07

Tgt Ion	Ratio	Lower	Upper
152	100		
115	73.0	45.0	134.8
150	164.6	0.0	349.2



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: 20.632 ug/l

RT: 10.16 min Scan# 2796

Delta R.T. -0.00 min

Lab File: VU028368.D

Acq: 28 Nov 2018 16:07

Instrument :

MSVOA_U

ClientSampleId :

VU1128WBS01

Tot Ion:105 Resp: 276633

Ion Ratio Lower Upper

105 100

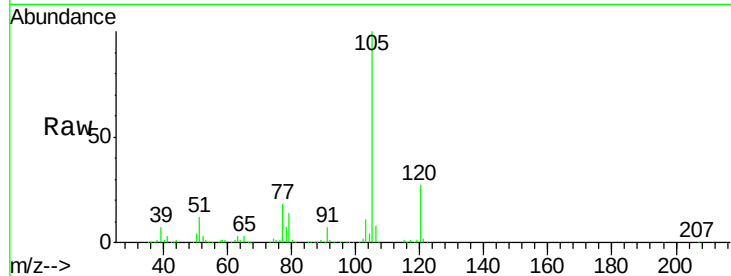
120 26.3 12.8 38.3

Manual Integrations

APPROVED

MMDadoda

11/29/2018 1:23:17 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

200000

150000

100000

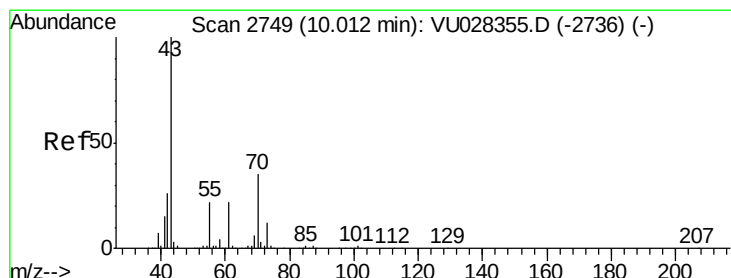
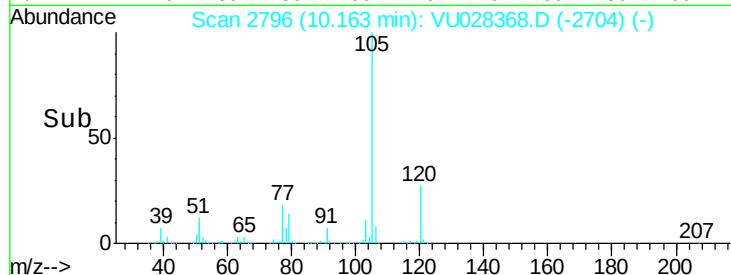
50000

0

10.10

10.20

Time-->



#74

N-ethyl acetate

Concen: 21.047 ug/l

RT: 10.01 min Scan# 2749

Delta R.T. 0.00 min

Lab File: VU028368.D

Acq: 28 Nov 2018 16:07

Tgt Ion: 43 Resp: 176808

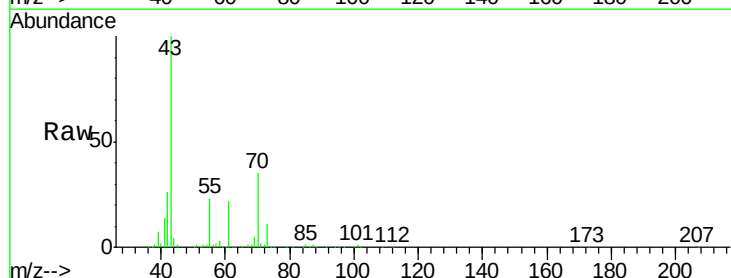
Ion Ratio Lower Upper

43 100

70 35.3 28.4 42.6

55 23.6 18.0 27.0

61 22.2 17.6 26.4



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

150000

100000

50000

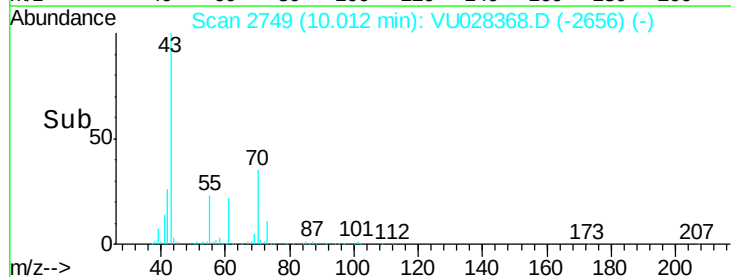
0

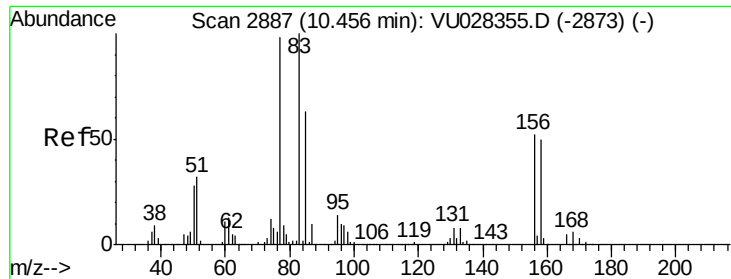
9.95

10.00

10.05

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 20.780 ug/l

RT: 10.46 min Scan# 2887

Delta R.T. 0.00 min

Lab File: VU028368.D

Acq: 28 Nov 2018 16:07

Instrument :

MSVOA_U

ClientSampleId :

VU1128WBS01

Tot Ion: 83 Resp: 114575
Ion Ratio Lower Upper

83 100

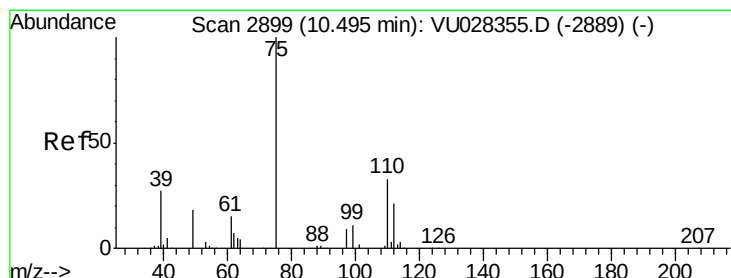
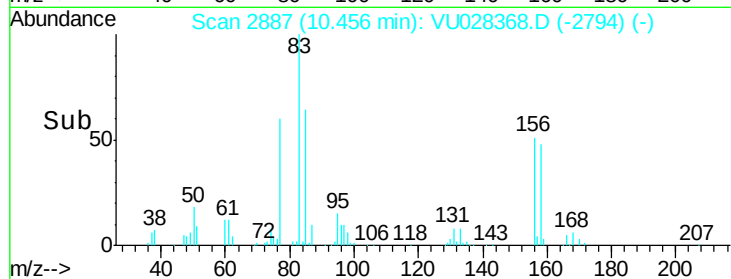
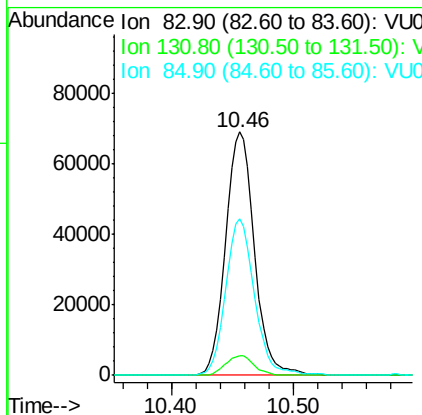
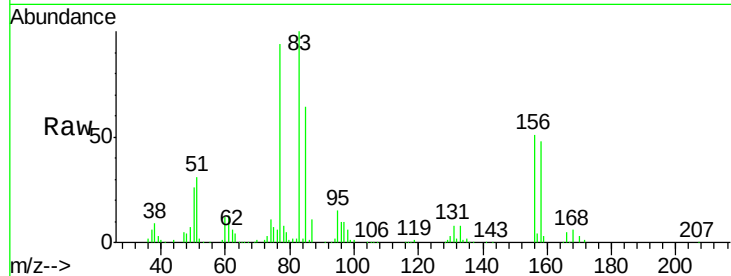
131 8.0 4.0 12.2

85 64.3 31.8 95.4

Manual Integrations
APPROVED

MMDadoda

11/29/2018 1:23:17 PM



#76

1,2,3-Trichloropropane

Concen: 21.095 ug/l m

RT: 10.49 min Scan# 2899

Delta R.T. 0.00 min

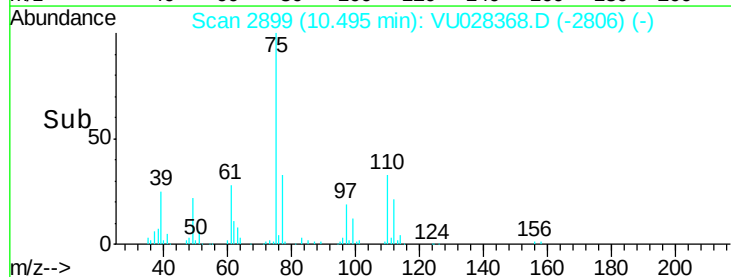
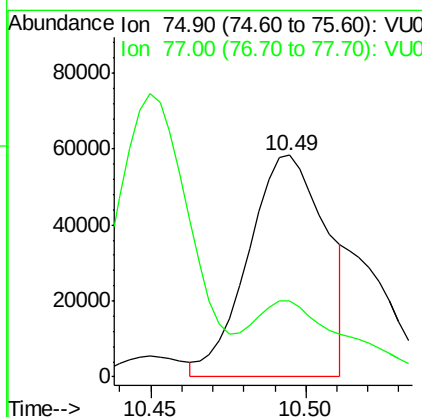
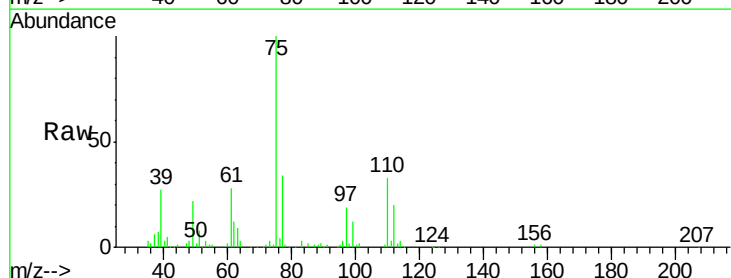
Lab File: VU028368.D

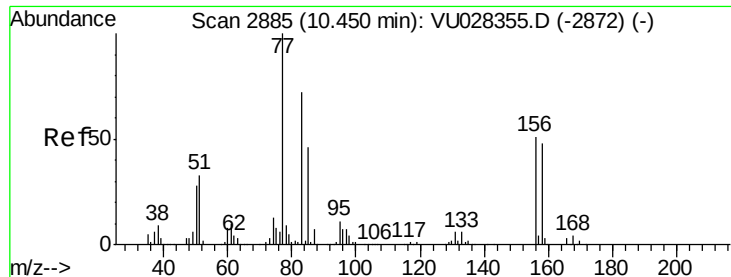
Acq: 28 Nov 2018 16:07

Tgt Ion: 75 Resp: 100846
Ion Ratio Lower Upper

75 100

77 41.2 22.4 67.0





#77

Bromobenzene

Concen: 19.666 ug/l

RT: 10.45 min Scan# 2886

Delta R.T. 0.00 min

Lab File: VU028368.D

Acq: 28 Nov 2018 16:07

Instrument :

MSVOA_U

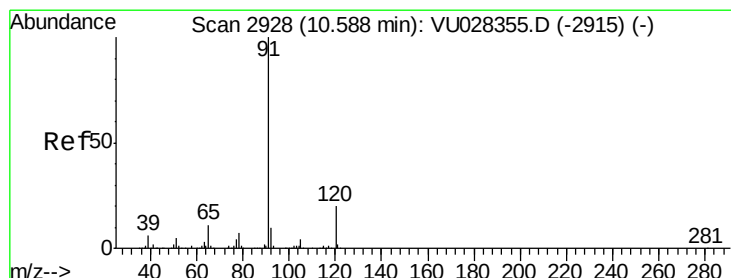
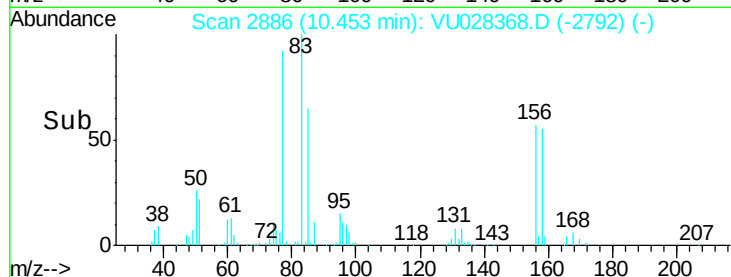
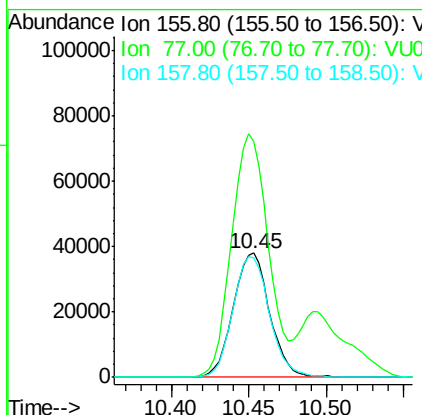
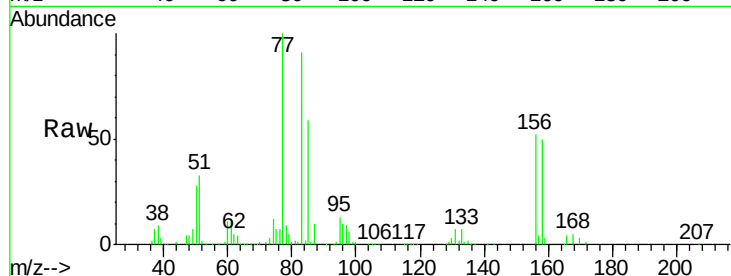
ClientSampleId :

VU1128WBS01

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	197.0	97.0	290.9	
158	98.3	46.8	140.4	

Manual Integrations
APPROVED

MMDadoda
11/29/2018 1:23:17 PM



#78

n-propylbenzene

Concen: 20.674 ug/l

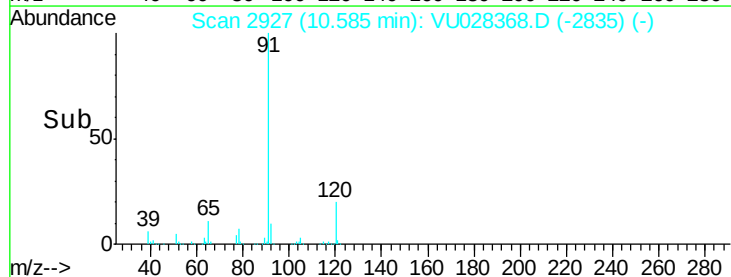
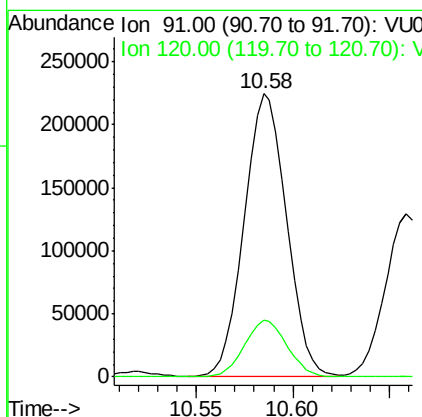
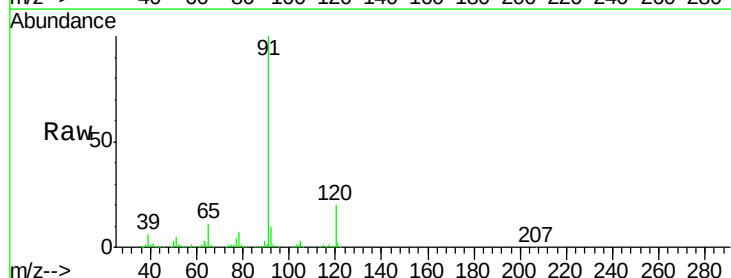
RT: 10.58 min Scan# 2927

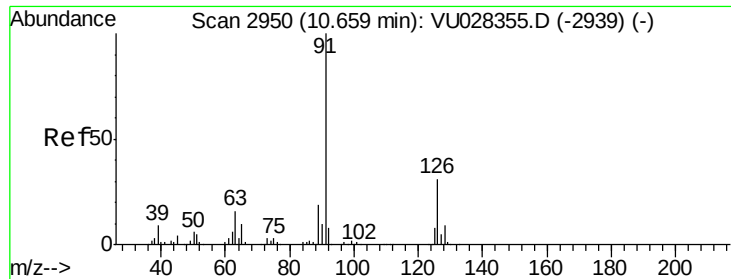
Delta R.T. -0.00 min

Lab File: VU028368.D

Acq: 28 Nov 2018 16:07

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	20.3	10.3	30.8	





#79

2-Chlorotoluene

Concen: 20.708 ug/l

RT: 10.66 min Scan# 2950

Delta R.T. 0.00 min

Lab File: VU028368.D

Acq: 28 Nov 2018 16:07

Instrument :

MSVOA_U

ClientSampleId :

VU1128WBS01

Tot Ion: 91 Resp: 201919

Ion Ratio Lower Upper

91 100

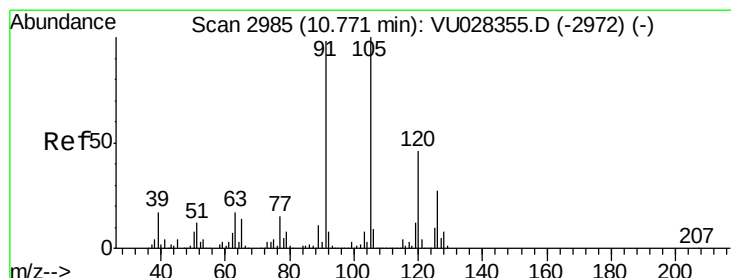
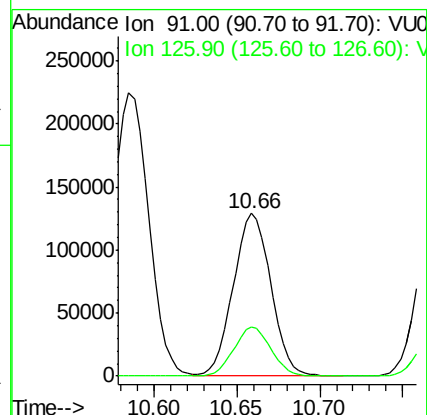
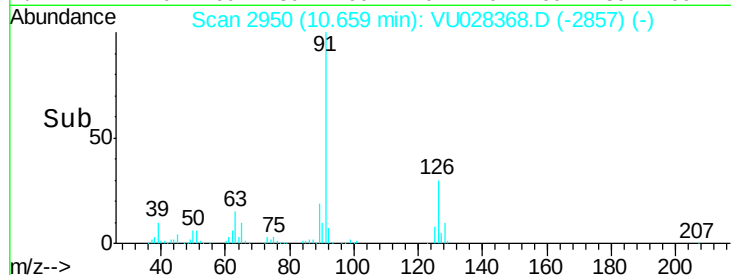
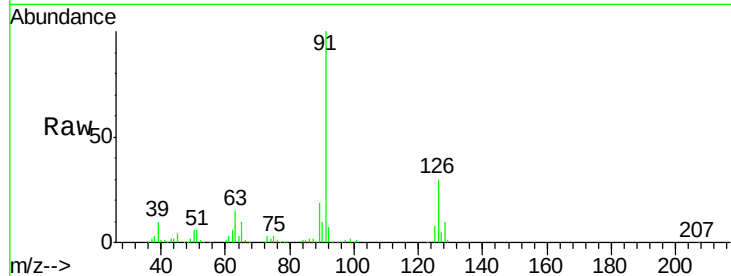
126 30.4 15.4 46.1

Manual Integrations

APPROVED

MMDadoda

11/29/2018 1:23:17 PM



#80

1,3,5-Trimethylbenzene

Concen: 20.387 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. 0.00 min

Lab File: VU028368.D

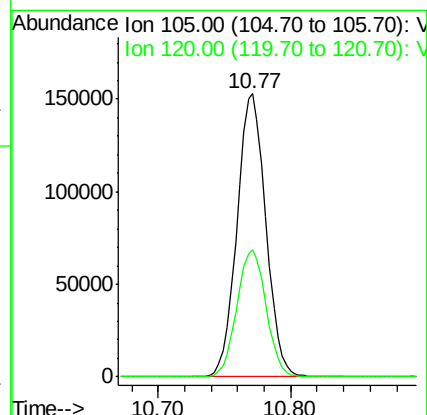
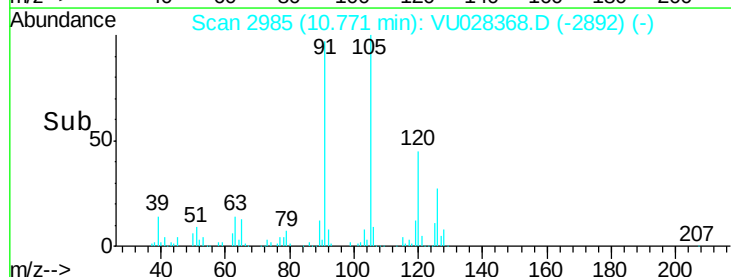
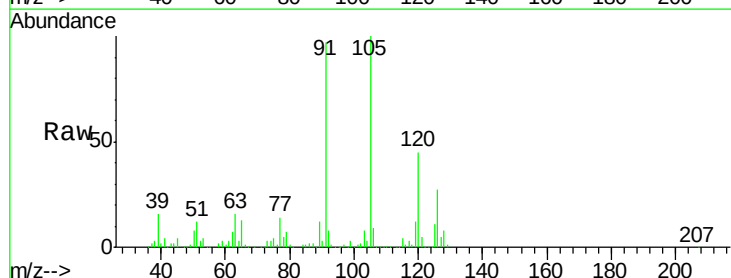
Acq: 28 Nov 2018 16:07

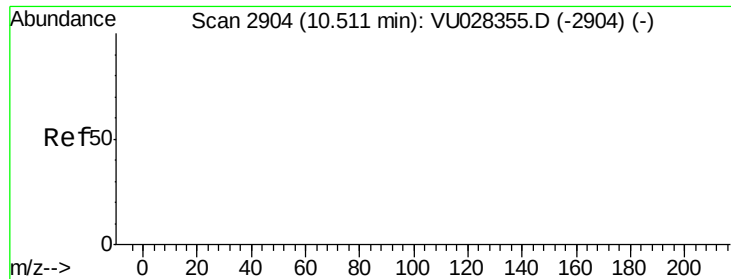
Tgt Ion: 105 Resp: 230351

Ion Ratio Lower Upper

105 100

120 45.8 23.4 70.0





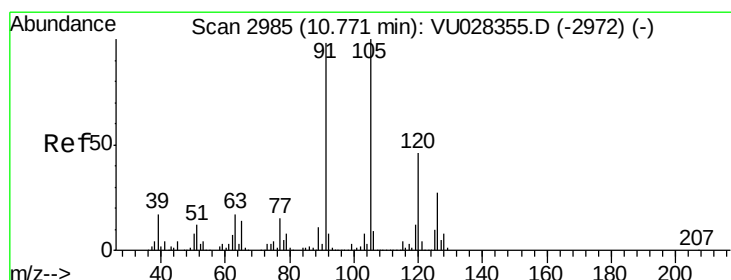
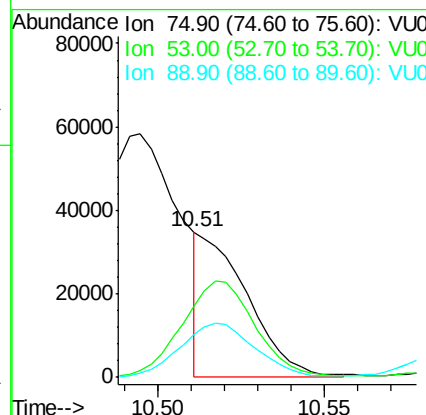
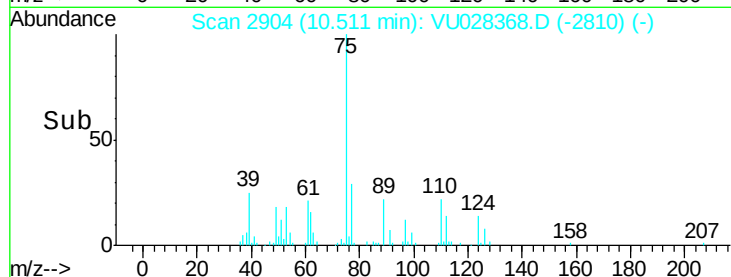
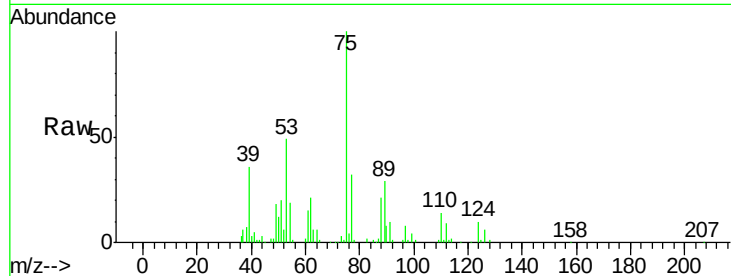
#81
trans-1,4-Dichloro-2-butene
Concen: 19.154 ug/l m
RT: 10.51 min Scan# 2904
Delta R.T. 0.00 min
Lab File: VU028368.D
Acq: 28 Nov 2018 16:07

Instrument :
MSVOA_U
ClientSampleId :
VU1128WBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	0.0	0.0
89	0.0	0.0	0.0

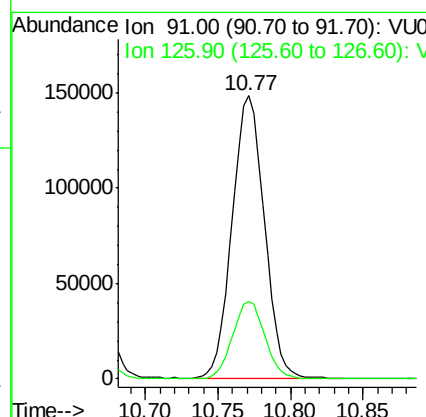
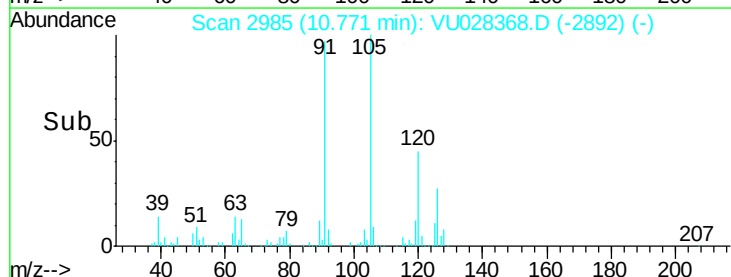
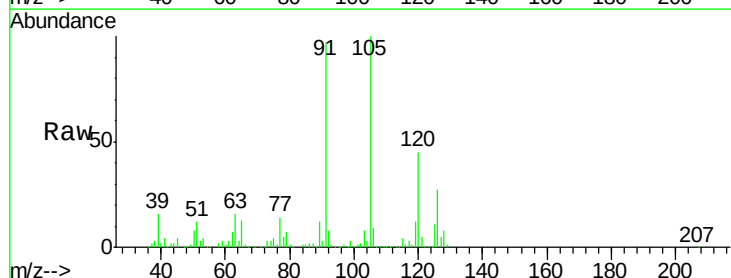
Manual Integrations
APPROVED

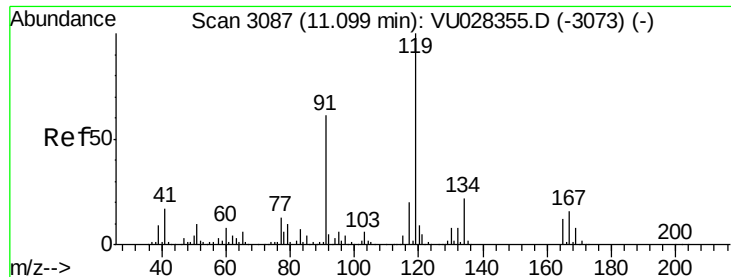
MMDadoda
11/29/2018 1:23:17 PM



#82
4-Chlorotoluene
Concen: 20.349 ug/l
RT: 10.77 min Scan# 2985
Delta R.T. 0.00 min
Lab File: VU028368.D
Acq: 28 Nov 2018 16:07

Tgt Ion	Ratio	Lower	Upper
91	100		
126	27.6	13.9	41.6





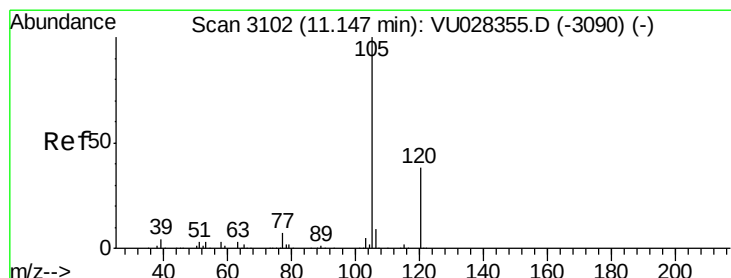
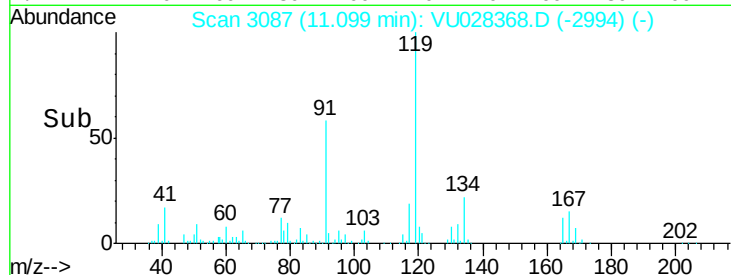
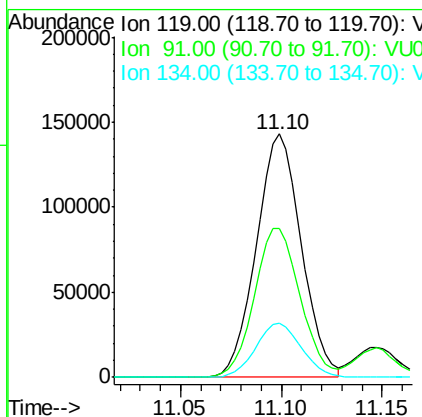
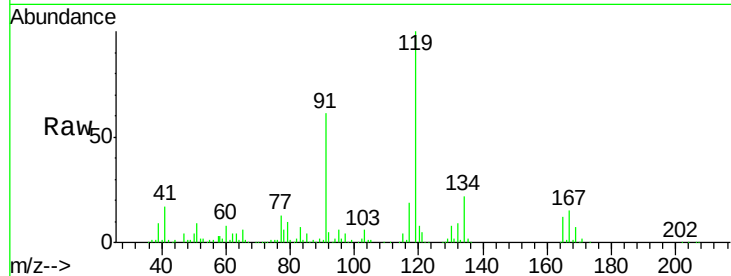
#83
tert-Butylbenzene
Concen: 21.111 ug/l
RT: 11.10 min Scan# 3087
Delta R.T. 0.00 min
Lab File: VU028368.D
Acq: 28 Nov 2018 16:07

Instrument :
MSVOA_U
ClientSampleId :
VU1128WBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	222354		
91	62.7		30.8	92.4
134	22.5		11.1	33.1

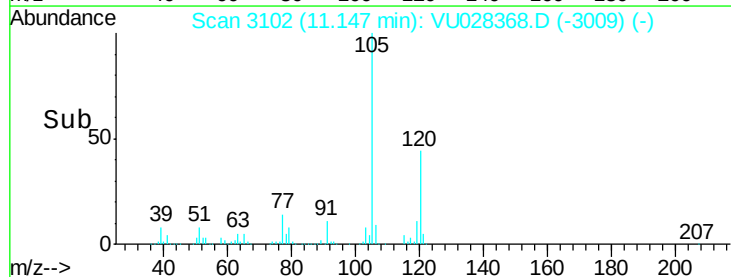
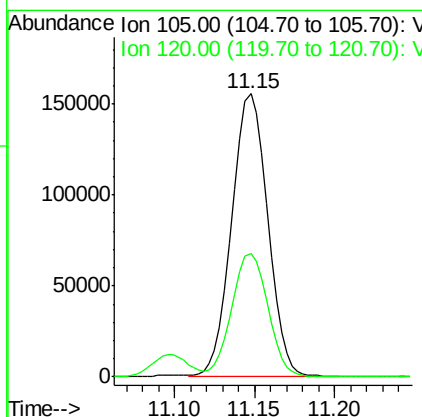
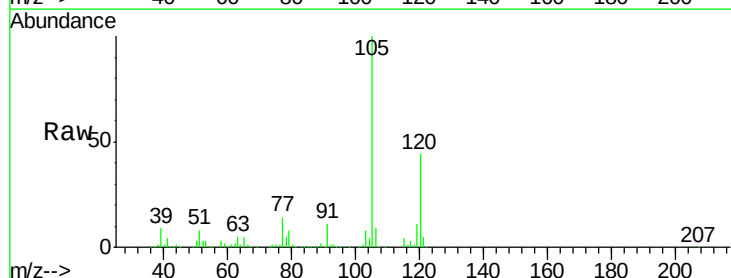
Manual Integrations
APPROVED

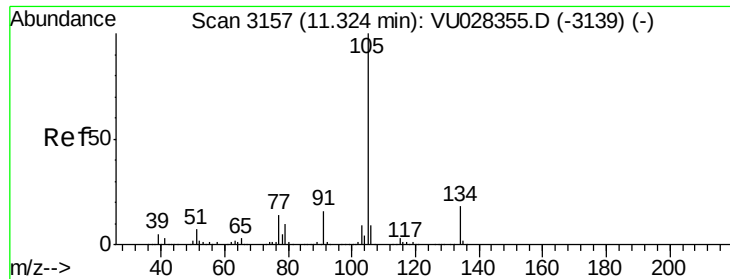
MMDadoda
11/29/2018 1:23:17 PM



#84
1,2,4-Trimethylbenzene
Concen: 20.759 ug/l
RT: 11.15 min Scan# 3102
Delta R.T. 0.00 min
Lab File: VU028368.D
Acq: 28 Nov 2018 16:07

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	237577		
120	44.1		21.4	64.3





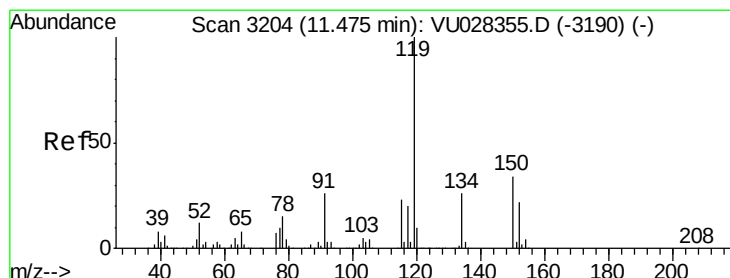
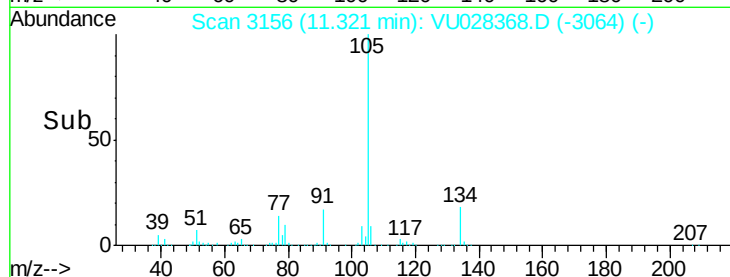
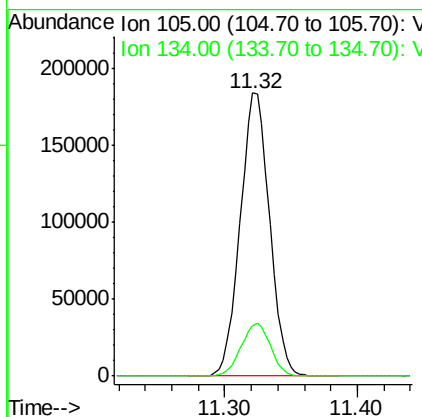
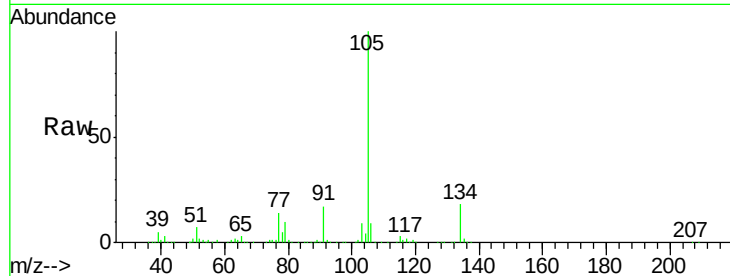
#85
 sec-Butylbenzene
 Concen: 20.606 ug/l
 RT: 11.32 min Scan# 3156
 Delta R.T. -0.00 min
 Lab File: VU028368.D
 Acq: 28 Nov 2018 16:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1128WBS01

Tot Ion	Ratio	Resp	Lower	Upper
105	100	281898		
134	18.7	9.3	27.7	

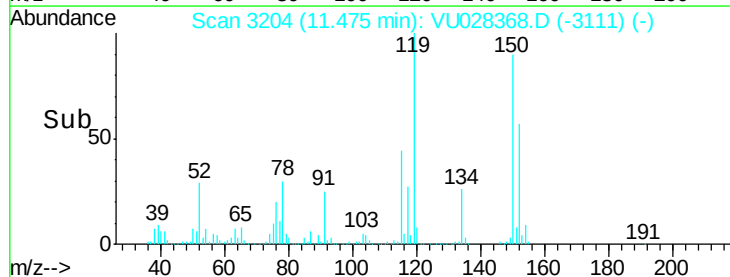
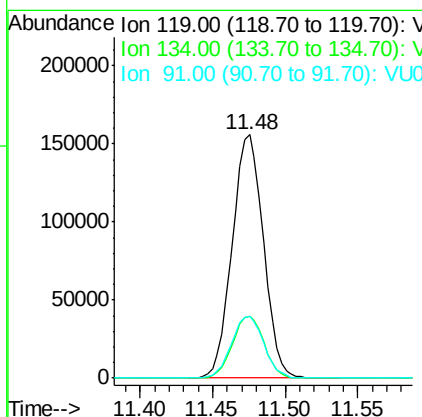
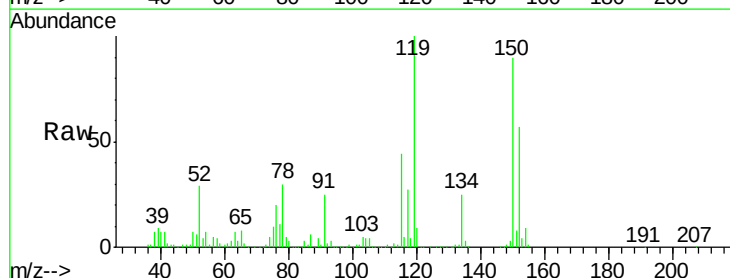
Manual Integrations
 APPROVED

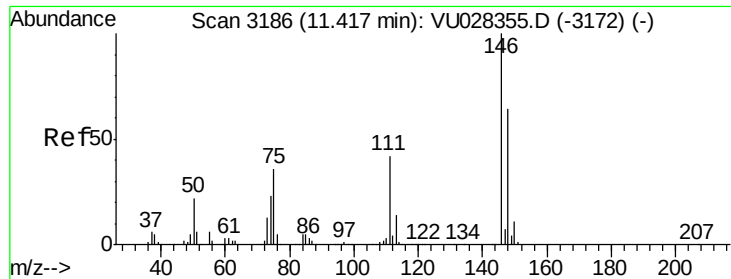
MMDadoda
 11/29/2018 1:23:17 PM



#86
 p-Isopropyltoluene
 Concen: 20.657 ug/l
 RT: 11.48 min Scan# 3204
 Delta R.T. 0.00 min
 Lab File: VU028368.D
 Acq: 28 Nov 2018 16:07

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	232363		
134	25.9	12.8	38.3	
91	26.1	13.1	39.1	





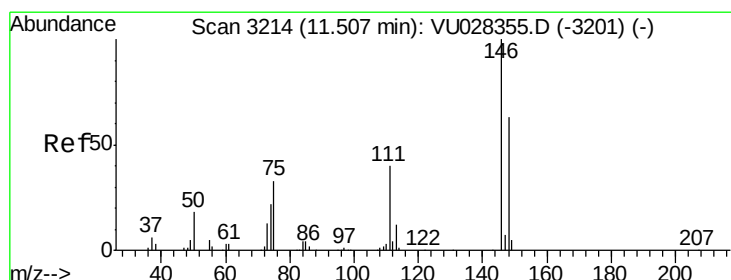
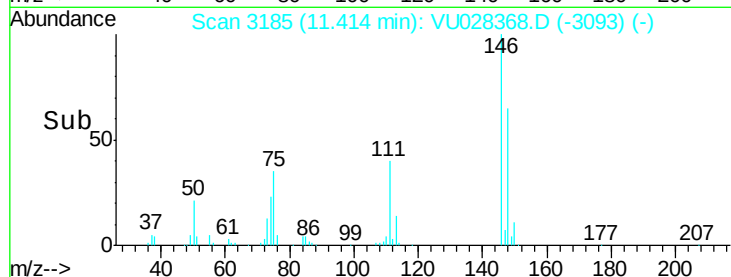
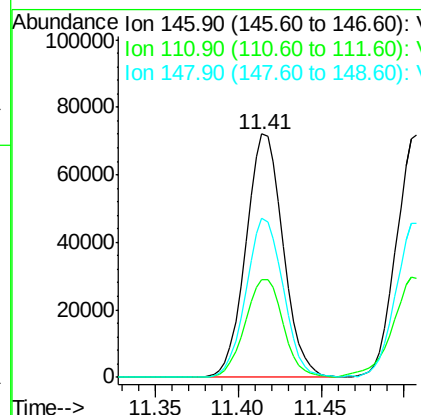
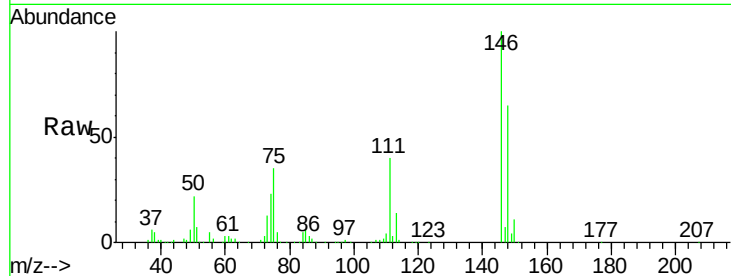
#87
 1,3-Dichlorobenzene
 Concen: 19.576 ug/l
 RT: 11.41 min Scan# 3185
 Delta R.T. -0.00 min
 Lab File: VU028368.D
 Acq: 28 Nov 2018 16:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1128WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.1	20.8	62.4
148	65.3	31.8	95.3

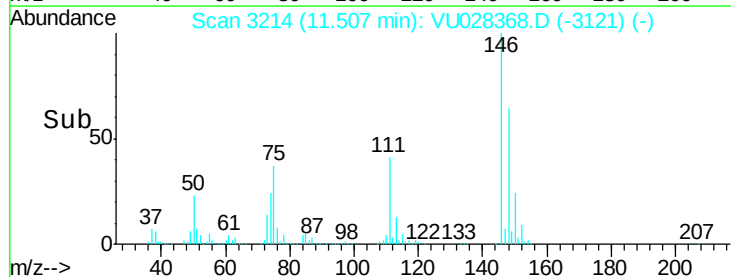
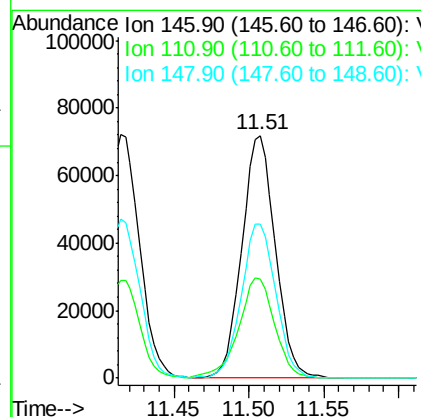
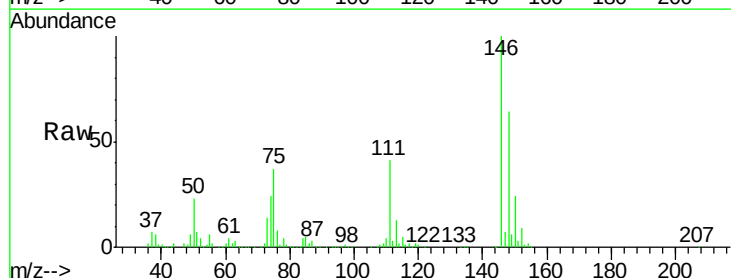
Manual Integrations
 APPROVED

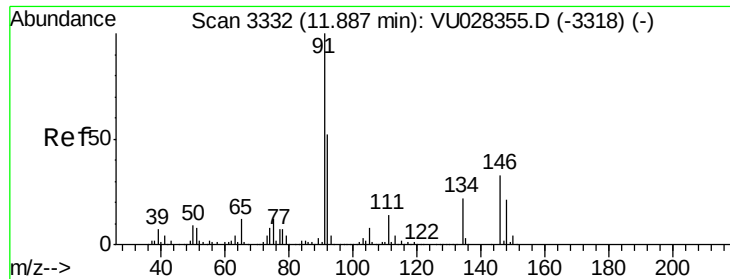
MMDadoda
 11/29/2018 1:23:17 PM



#88
 1,4-Dichlorobenzene
 Concen: 19.200 ug/l
 RT: 11.51 min Scan# 3214
 Delta R.T. 0.00 min
 Lab File: VU028368.D
 Acq: 28 Nov 2018 16:07

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.9	20.6	61.9
148	65.8	31.1	93.5





#89

n-Butylbenzene

Concen: 19.756 ug/l

RT: 11.89 min Scan# 3332

Delta R.T. 0.00 min

Lab File: VU028368.D

Acq: 28 Nov 2018 16:07

Instrument :

MSVOA_U

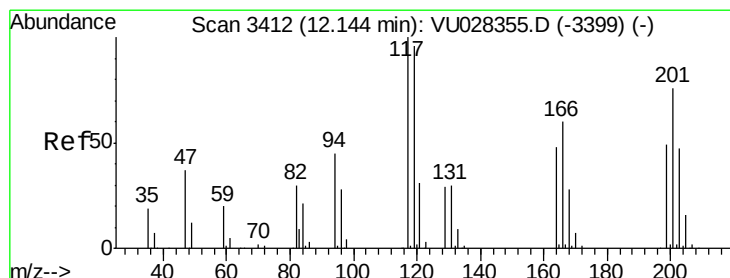
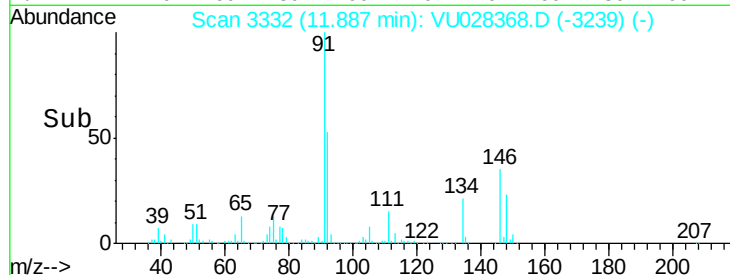
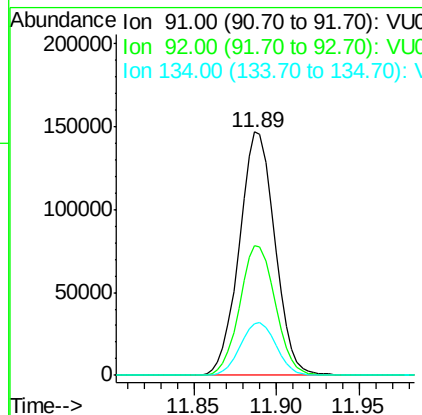
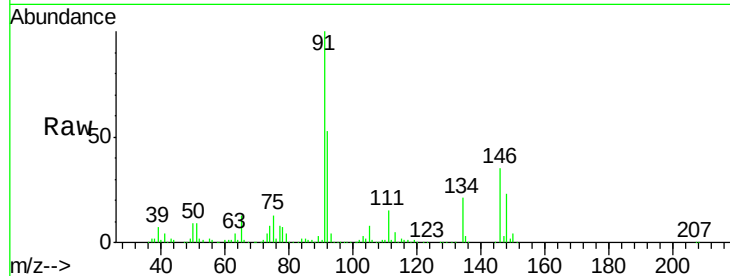
ClientSampleId :

VU1128WBS01

Tot Ion:	91	Resp:	219328
Ion	Ratio	Lower	Upper
91	100		
92	53.3	26.2	78.5
134	21.8	11.1	33.1

Manual Integrations
APPROVED

MMDadoda
11/29/2018 1:23:17 PM



#90

Hexachloroethane

Concen: 19.538 ug/l

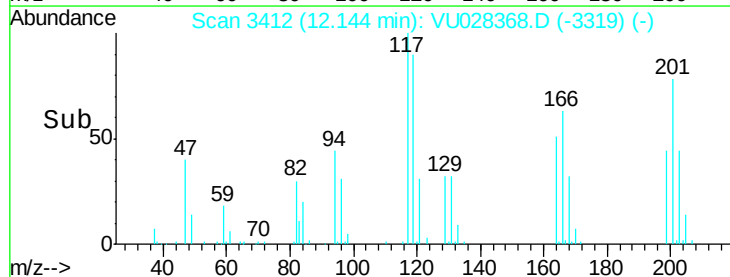
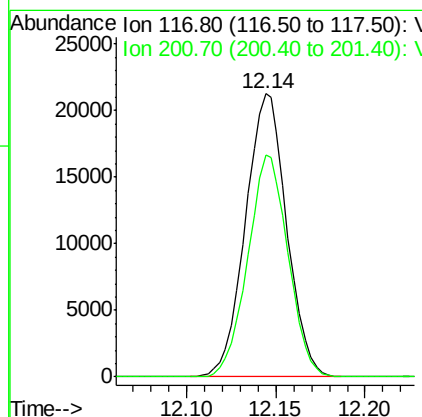
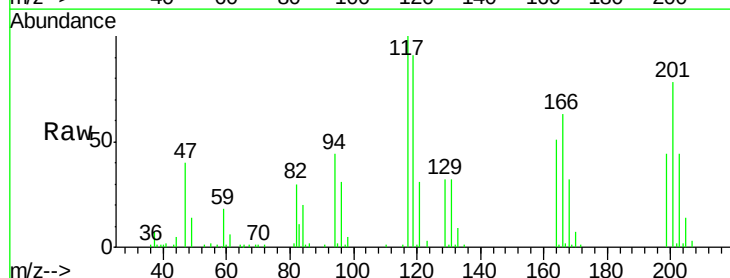
RT: 12.14 min Scan# 3412

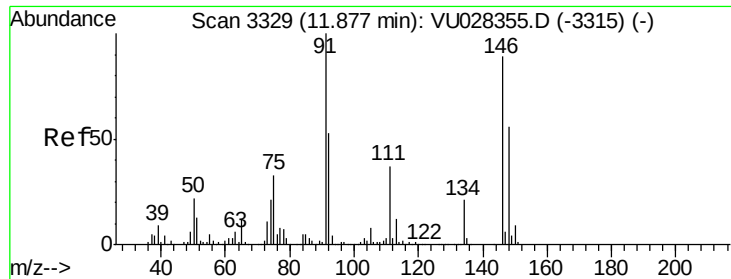
Delta R.T. 0.00 min

Lab File: VU028368.D

Acq: 28 Nov 2018 16:07

Tgt Ion:	117	Resp:	34313
Ion	Ratio	Lower	Upper
117	100		
201	76.5	37.7	113.1





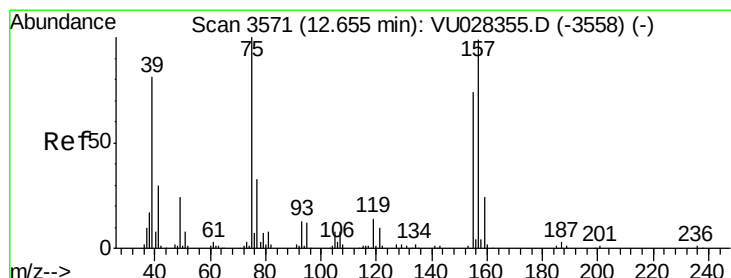
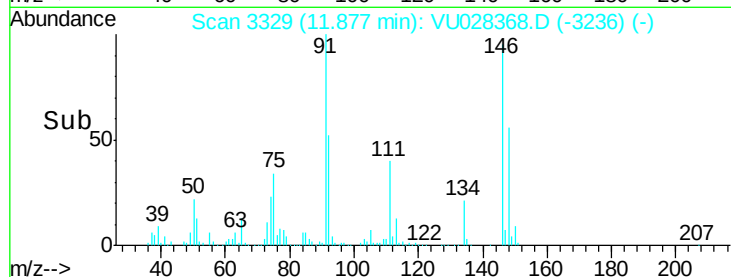
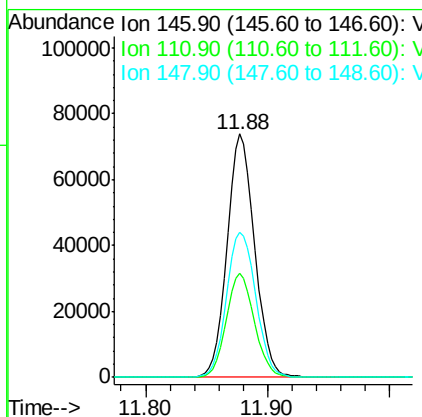
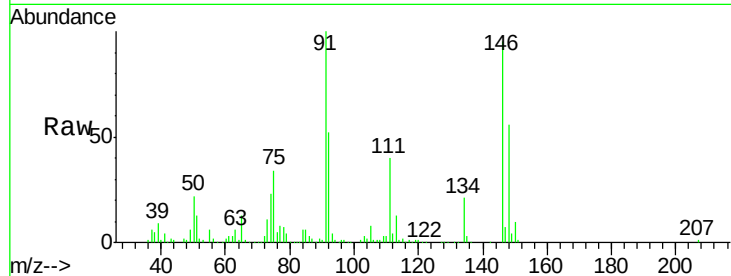
#91
1,2-Dichlorobenzene
Concen: 20.402 ug/l
RT: 11.88 min Scan# 3329
Delta R.T. 0.00 min
Lab File: VU028368.D
Acq: 28 Nov 2018 16:07

Instrument :
MSVOA_U
ClientSampleId :
VU1128WBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	117291		
111	43.4	21.4	64.3	
148	63.2	32.2	96.6	

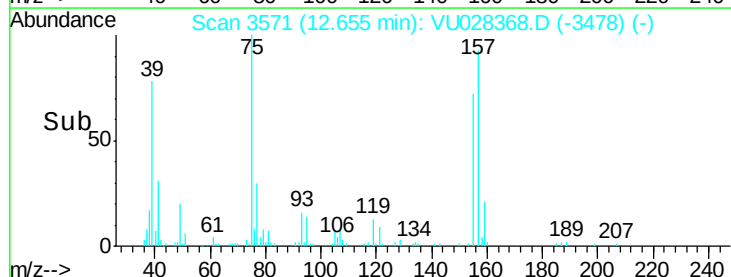
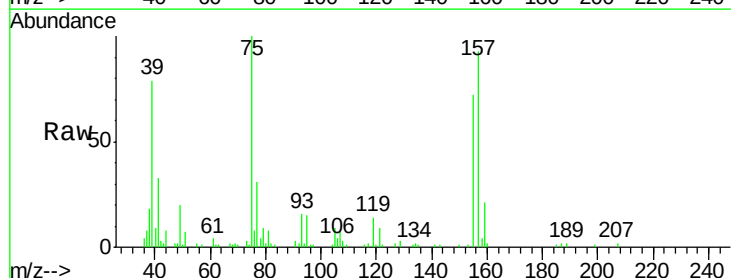
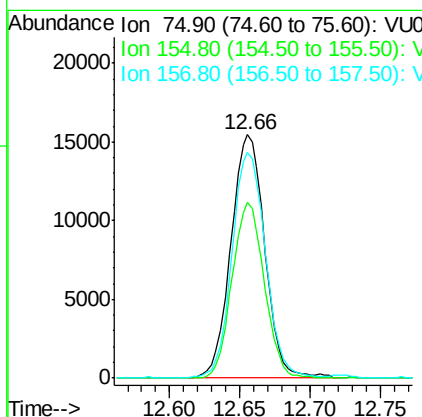
Manual Integrations
APPROVED

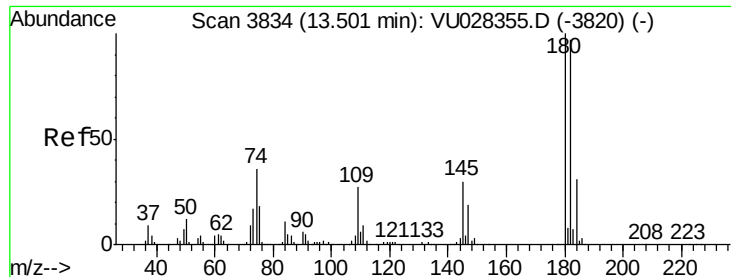
MMDadoda
11/29/2018 1:23:17 PM



#92
1,2-Dibromo-3-Chloropropane
Concen: 21.217 ug/l
RT: 12.66 min Scan# 3571
Delta R.T. 0.00 min
Lab File: VU028368.D
Acq: 28 Nov 2018 16:07

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	26021		
155	68.6	36.9	110.7	
157	92.2	47.5	142.5	





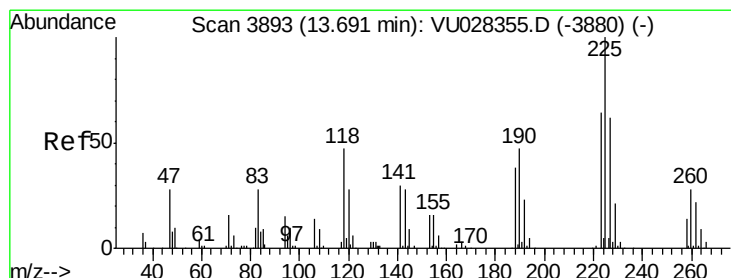
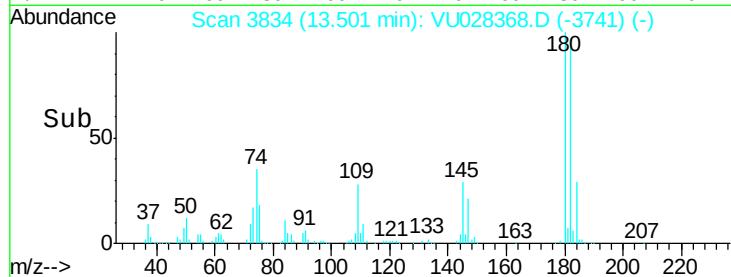
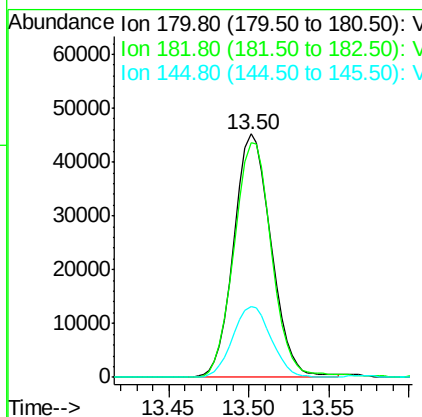
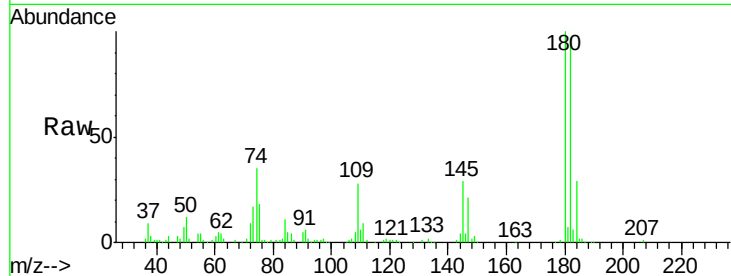
#93
 1,2,4-Trichlorobenzene
 Concen: 19.172 ug/l
 RT: 13.50 min Scan# 3834
 Delta R.T. 0.00 min
 Lab File: VU028368.D
 Acq: 28 Nov 2018 16:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1128WBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.6	48.3	144.9
145	29.8	15.2	45.5

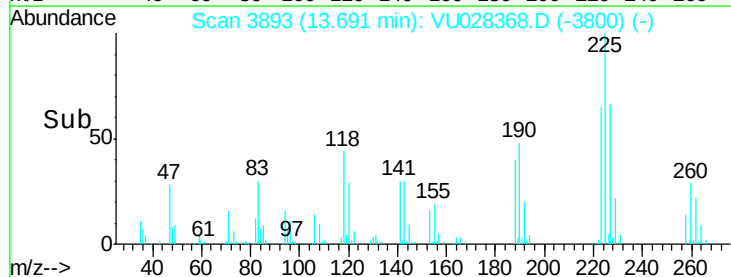
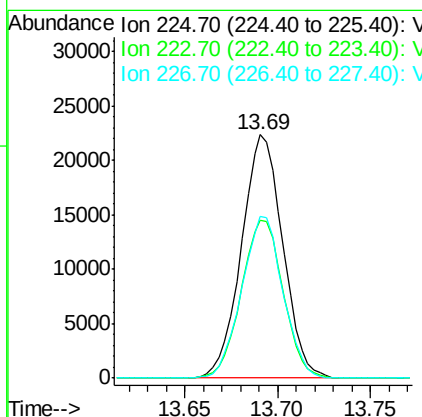
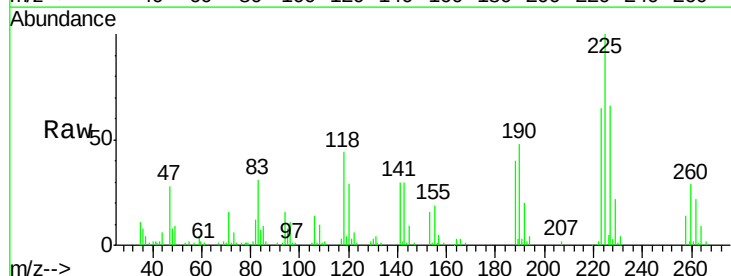
Manual Integrations
 APPROVED

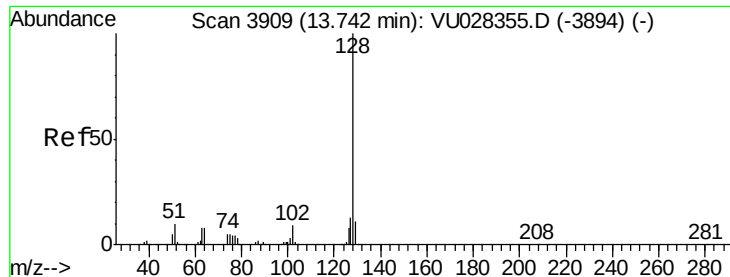
MMDadoda
 11/29/2018 1:23:17 PM



#94
 Hexachlorobutadiene
 Concen: 19.413 ug/l
 RT: 13.69 min Scan# 3893
 Delta R.T. 0.00 min
 Lab File: VU028368.D
 Acq: 28 Nov 2018 16:07

Tgt Ion	Ratio	Lower	Upper
225	100		
223	65.8	31.6	94.7
227	66.0	30.8	92.4





#95

Naphthalene

Concen: 20.515 ug/l

RT: 13.74 min Scan# 3909

Delta R.T. 0.00 min

Lab File: VU028368.D

Acq: 28 Nov 2018 16:07

Instrument :

MSVOA_U

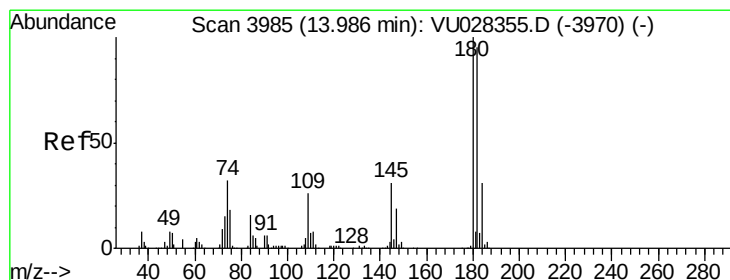
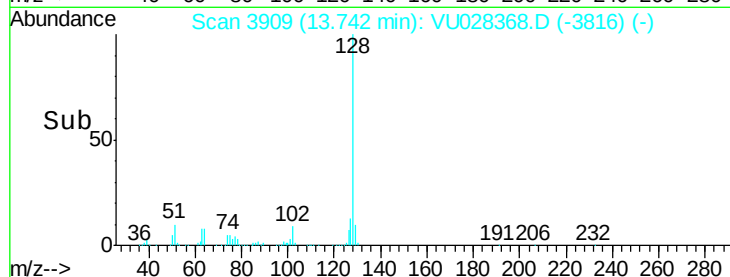
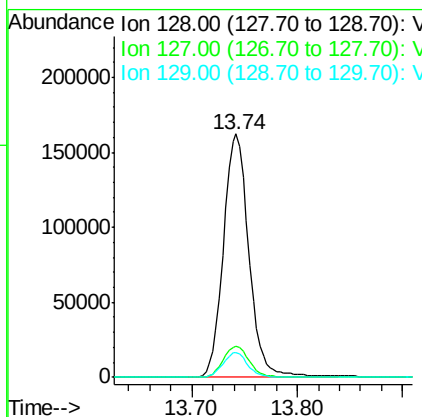
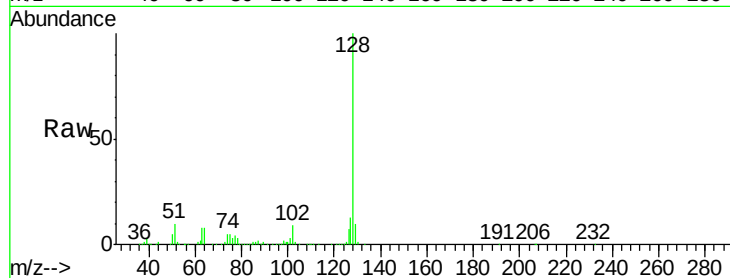
ClientSampleId :

VU1128WBS01

Tot Ion:	128	Resp:	271942
Ion Ratio	Lower	Upper	
128	100		
127	13.3	10.6	15.8
129	10.2	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
11/29/2018 1:23:17 PM



#96

1,2,3-Trichlorobenzene

Concen: 20.191 ug/l

RT: 13.99 min Scan# 3985

Delta R.T. 0.00 min

Lab File: VU028368.D

Acq: 28 Nov 2018 16:07

Tgt Ion:	180	Resp:	76847
Ion Ratio	Lower	Upper	
180	100		
182	94.9	47.7	143.1
145	31.0	15.7	47.1

