

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111318\
 Data File : VU028083.D
 Acq On : 13 Nov 2018 11:40
 Operator : MD/SY
 Sample : VU1113WBS01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1113WBS01

Manual Integrations
 APPROVED

MMDadoda
 11/14/2018 9:34:22 AM

Quant Time: Nov 14 07:15:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 02 02:28:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	148531	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	255054	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	235795	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	109308	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	122592	55.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.02%	
35) Dibromofluoromethane	4.88	113	86439	53.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.50%	
50) Toluene-d8	7.57	98	341263	54.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.86%	
62) 4-Bromofluorobenzene	10.31	95	120196	52.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.92%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	29267	15.507	ug/l	96
3) Chloromethane	1.33	50	44576	19.529	ug/l	98
4) Vinyl Chloride	1.41	62	42196	18.626	ug/l	99
5) Bromomethane	1.61	94	21243	25.150	ug/l	99
6) Chloroethane	1.69	64	25800	19.762	ug/l	100
7) Trichlorofluoromethane	1.88	101	50970	19.470	ug/l	96
8) Diethyl Ether	2.10	74	23032	20.547	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	2.28	101	30698	19.739	ug/l	100
10) Methyl Iodide	2.41	142	30731	25.937	ug/l	100
11) Tert butyl alcohol	2.83	59	59594	101.939	ug/l	98
12) 1,1-Dichloroethene	2.28	96	28668	18.416	ug/l	98
13) Acrolein	2.20	56	13240	56.306	ug/l	89
14) Allyl chloride	2.59	41	70709	18.585	ug/l	98
15) Acrylonitrile	2.94	53	143086	99.640	ug/l	100
16) Acetone	2.32	43	140389	102.466	ug/l	98
17) Carbon Disulfide	2.48	76	86653	17.030	ug/l	100
18) Methyl Acetate	2.62	43	78943	20.946	ug/l	99
19) Methyl tert-butyl Ether	3.00	73	121475	19.350	ug/l	98
20) Methylene Chloride	2.70	84	38397	19.194	ug/l	97
21) trans-1,2-Dichloroethene	2.98	96	31789	17.695	ug/l	92
22) Diisopropyl ether	3.57	45	158746	20.210	ug/l	95
23) Vinyl Acetate	3.52	43	662213	98.097	ug/l	100
24) 1,1-Dichloroethane	3.45	63	75046	19.181	ug/l	98
25) 2-Butanone	4.26	43	218221	100.115	ug/l	98
26) 2,2-Dichloropropane	4.23	77	58280	19.850	ug/l	99
27) cis-1,2-Dichloroethene	4.23	96	40262	19.986	ug/l	99
28) Bromochloromethane	4.55	49	42068	22.936	ug/l	99
29) Tetrahydrofuran	4.64	42	137762	94.651	ug/l	100
30) Chloroform	4.67	83	69868	19.476	ug/l	99
31) Cyclohexane	5.00	56	75504	18.605	ug/l	98
32) 1,1,1-Trichloroethane	4.92	97	55224	19.339	ug/l	96
36) 1,1-Dichloropropene	5.14	75	50637	18.956	ug/l	99
37) Ethyl Acetate	4.38	43	76325	19.500	ug/l #	93
38) Carbon Tetrachloride	5.14	117	45318	19.143	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111318\
 Data File : VU028083.D
 Acq On : 13 Nov 2018 11:40
 Operator : MD/SY
 Sample : VU1113WBS01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1113WBS01

Manual Integrations
 APPROVED

MMDadoda
 11/14/2018 9:34:22 AM

Quant Time: Nov 14 07:15:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 02 02:28:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.41	83	62440	19.380	ug/l	97
40) Benzene	5.39	78	159368	19.513	ug/l	99
41) Methacrylonitrile	4.54	41	41978	20.097	ug/l	97
42) 1,2-Dichloroethane	5.40	62	57006	19.637	ug/l	99
43) Isopropyl Acetate	5.55	43	121120	19.752	ug/l	100
44) Trichloroethene	6.19	130	34010	19.373	ug/l	97
45) 1,2-Dichloropropane	6.43	63	47513	20.172	ug/l	97
46) Dibromomethane	6.56	93	26747	19.756	ug/l	98
47) Bromodichloromethane	6.76	83	53016	20.320	ug/l	97
48) Methyl methacrylate	6.62	41	60294	20.065	ug/l	98
49) 1,4-Dioxane	6.61	88	22969	468.503	ug/l	97
51) 4-Methyl-2-Pentanone	7.46	43	402314	98.240	ug/l	99
52) Toluene	7.64	92	93136	19.398	ug/l	100
53) t-1,3-Dichloropropene	7.88	75	60398	19.368	ug/l	99
54) cis-1,3-Dichloropropene	7.27	75	65739	20.439	ug/l	98
55) 1,1,2-Trichloroethane	8.07	97	38805	19.865	ug/l	98
56) Ethyl methacrylate	8.02	69	66483	19.299	ug/l	96
57) 1,3-Dichloropropane	8.24	76	72293	20.317	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.13	63	187039	101.378	ug/l	99
59) 2-Hexanone	8.36	43	317675	100.296	ug/l	98
60) Dibromochloromethane	8.48	129	36612	19.807	ug/l	97
61) 1,2-Dibromoethane	8.59	107	40229	19.381	ug/l	95
64) Tetrachloroethene	8.23	164	30007	19.626	ug/l	96
65) Chlorobenzene	9.12	112	96001	19.271	ug/l	97
66) 1,1,1,2-Tetrachloroethane	9.21	131	33454	19.660	ug/l	99
67) Ethyl Benzene	9.25	91	178389	19.454	ug/l	100
68) m/p-Xylenes	9.38	106	129178	38.825	ug/l	98
69) o-Xylene	9.78	106	64470	19.189	ug/l	98
70) Styrene	9.79	104	104537	19.473	ug/l	99
71) Bromoform	9.96	173	27635	19.379	ug/l #	99
73) Isopropylbenzene	10.17	105	170913	20.183	ug/l	99
74) N-amyl acetate	10.01	43	107608	21.015	ug/l	98
75) 1,1,2,2-Tetrachloroethane	10.46	83	70303	20.582	ug/l	100
76) 1,2,3-Trichloropropane	10.49	75	62777m	20.996	ug/l	
77) Bromobenzene	10.45	156	38923	20.046	ug/l	97
78) n-propylbenzene	10.59	91	203853	20.112	ug/l	100
79) 2-Chlorotoluene	10.66	91	121118	19.935	ug/l	98
80) 1,3,5-Trimethylbenzene	10.77	105	142432	20.305	ug/l	98
81) trans-1,4-Dichloro-2-buten	10.51	75	19652m	16.588	ug/l	
82) 4-Chlorotoluene	10.77	91	138815	20.125	ug/l	98
83) tert-Butylbenzene	11.10	119	136630	19.483	ug/l	98
84) 1,2,4-Trimethylbenzene	11.15	105	143252	20.280	ug/l	99
85) sec-Butylbenzene	11.32	105	175086	20.529	ug/l	99
86) p-Isopropyltoluene	11.48	119	144965	20.332	ug/l	99
87) 1,3-Dichlorobenzene	11.42	146	71332	19.887	ug/l	99
88) 1,4-Dichlorobenzene	11.51	146	71346	19.406	ug/l	99
89) n-Butylbenzene	11.89	91	129939	19.177	ug/l	99
90) Hexachloroethane	12.14	117	25936	20.432	ug/l	100
91) 1,2-Dichlorobenzene	11.88	146	72048	19.974	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	12.66	75	14750	20.494	ug/l	93

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111318\
Data File : VU028083.D
Acq On : 13 Nov 2018 11:40
Operator : MD/SY
Sample : VU1113WBS01
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VU1113WBS01

Manual Integrations
APPROVED

MMDadoda
11/14/2018 9:34:22 AM

Quant Time: Nov 14 07:15:07 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 02 02:28:20 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.50	180	42667	17.320	ug/l	98
94) Hexachlorobutadiene	13.69	225	22960	20.028	ug/l	97
95) Naphthalene	13.74	128	156384	17.323	ug/l	99
96) 1,2,3-Trichlorobenzene	13.99	180	46390	19.166	ug/l	96

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

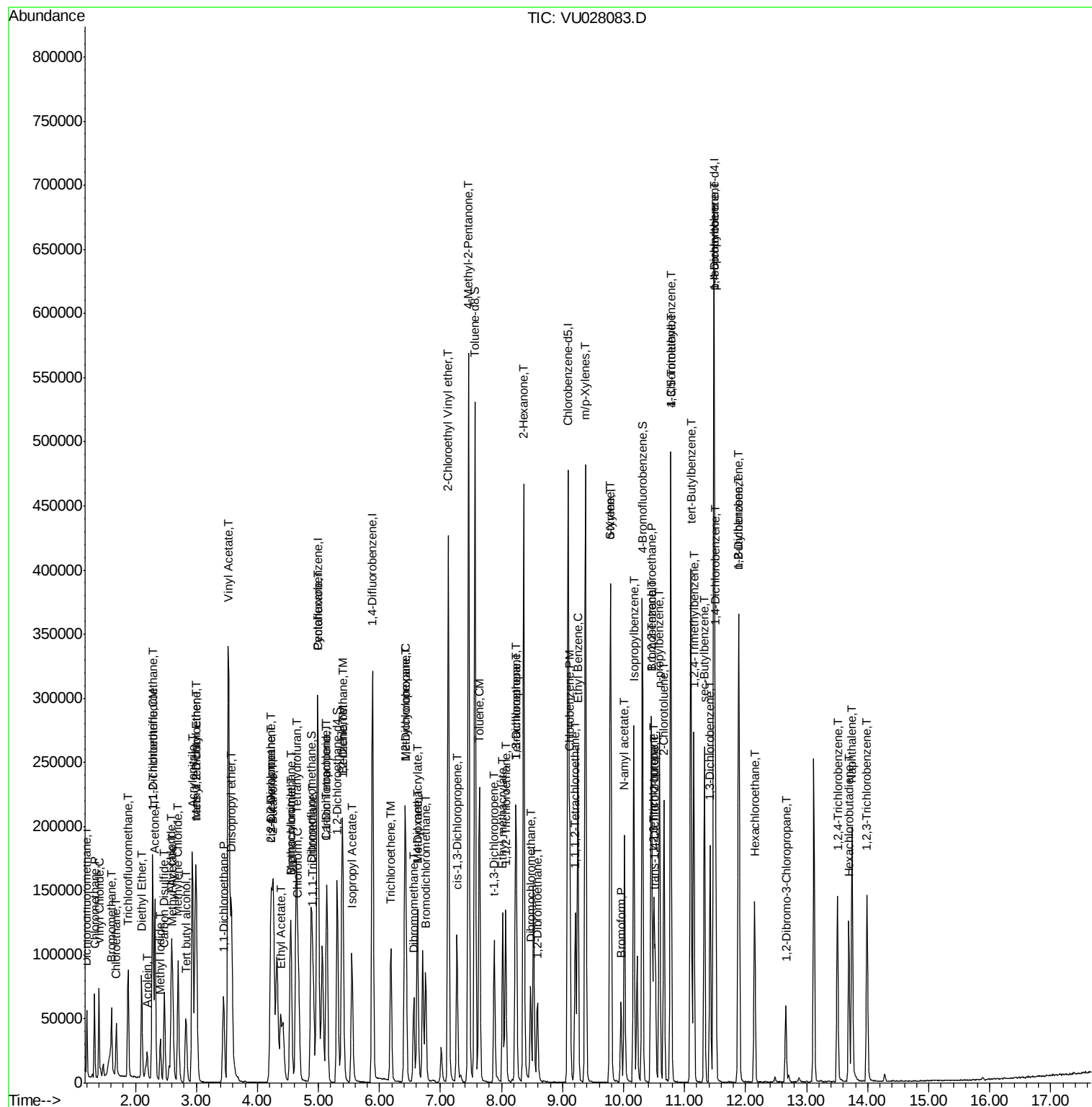
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU111318\
Data File : VU028083.D
Acq On : 13 Nov 2018 11:40
Operator : MD/SY
Sample : VU1113WBS01
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 4 Sample Multiplier: 1

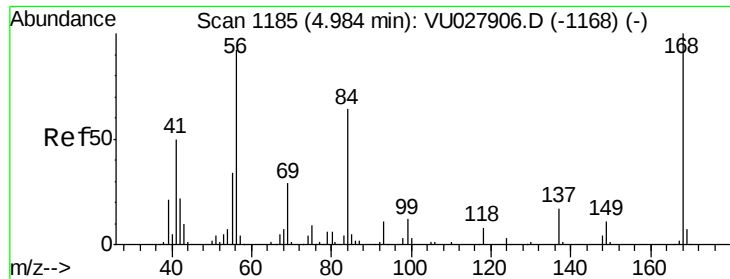
Instrument :
MSVOA_U
ClientSampleId :
VU1113WBS01

Manual Integrations
APPROVED

MMDadoda
11/14/2018 9:34:22 AM

Quant Time: Nov 14 07:15:07 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 02 02:28:20 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. 0.00 min

Lab File: VU028083.D

Acq: 13 Nov 2018 11:40

Instrument :

MSVOA_U

ClientSampleId :

VU1113WBS01

Tot Ion:168 Resp: 148531

Ion Ratio Lower Upper

168 100

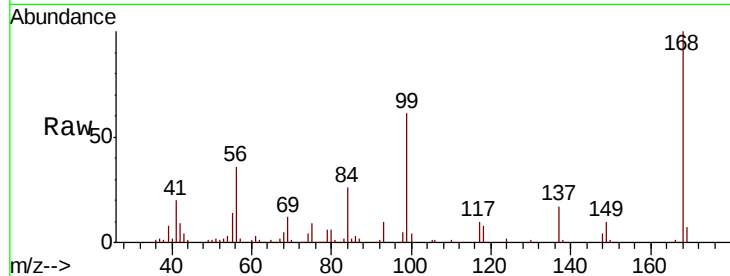
99 61.5 47.9 71.9

Manual Integrations

APPROVED

MMDadoda

11/14/2018 9:34:22 AM



Abundance Ion 167.90 (167.60 to 168.60): VU027906.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU027906.D (-1168) (-)

4.98

60000

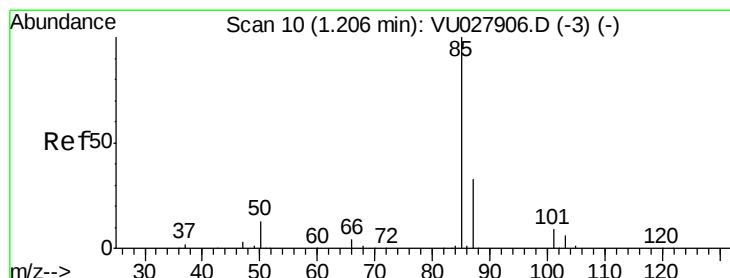
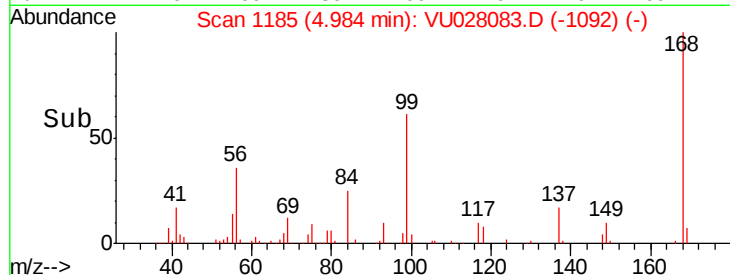
40000

20000

0

4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 15.507 ug/l

RT: 1.21 min Scan# 10

Delta R.T. 0.00 min

Lab File: VU028083.D

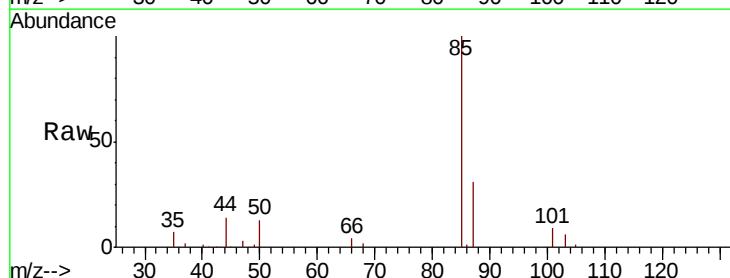
Acq: 13 Nov 2018 11:40

Tgt Ion: 85 Resp: 29267

Ion Ratio Lower Upper

85 100

87 30.8 16.5 49.5



Abundance Ion 84.90 (84.60 to 85.60): VU027906.D (-3) (-)

Ion 86.90 (86.60 to 87.60): VU027906.D (-3) (-)

1.21

30000

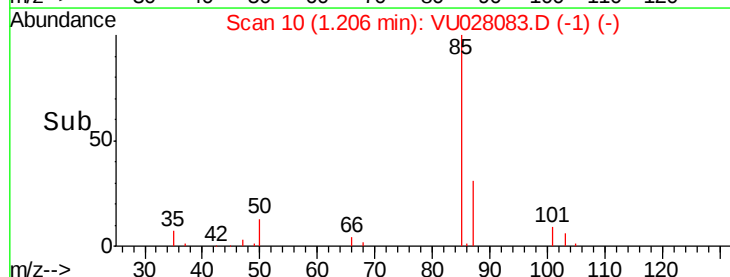
20000

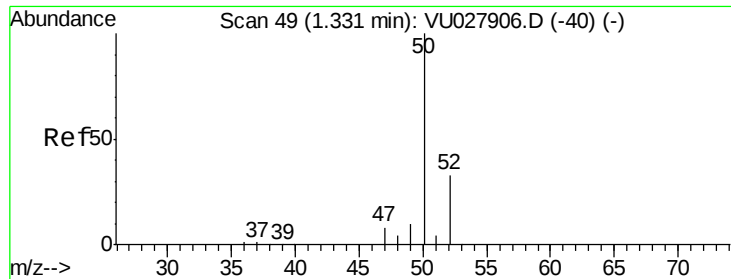
10000

0

1.20 1.25

Time-->





#3

Chloromethane

Concen: 19.529 ug/l

RT: 1.33 min Scan# 49

Delta R.T. 0.00 min

Lab File: VU028083.D

Acq: 13 Nov 2018 11:40

Instrument :

MSVOA_U

ClientSampleId :

VU1113WBS01

Tot Ion: 50 Resp: 44576

Ion Ratio Lower Upper

50 100

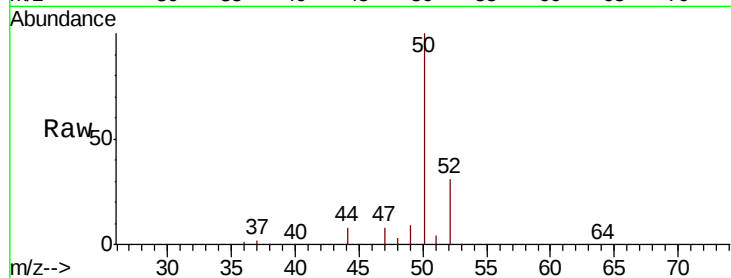
52 31.5 26.2 39.4

Manual Integrations

APPROVED

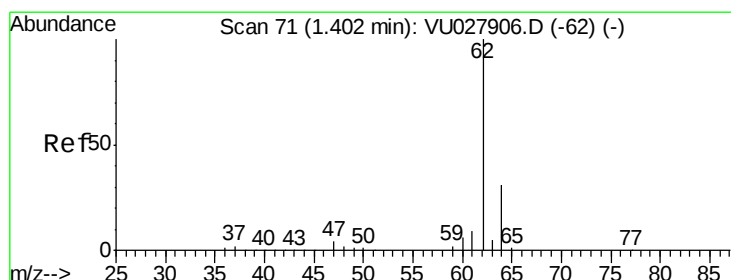
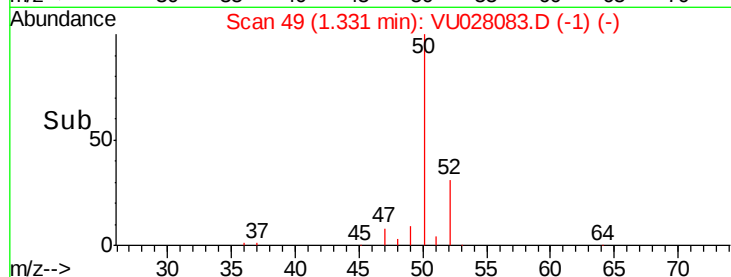
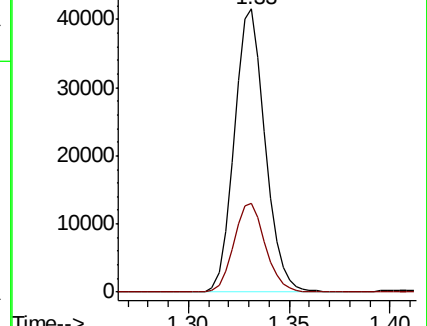
MMDadoda

11/14/2018 9:34:22 AM



Abundance Ion 49.90 (49.60 to 50.60): VU027906.D (-40) (-)

Ion 51.90 (51.60 to 52.60): VU027906.D (-40) (-)



#4

Vinyl Chloride

Concen: 18.626 ug/l

RT: 1.41 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU028083.D

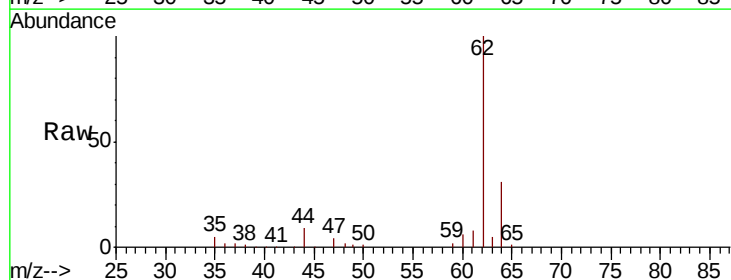
Acq: 13 Nov 2018 11:40

Tgt Ion: 62 Resp: 42196

Ion Ratio Lower Upper

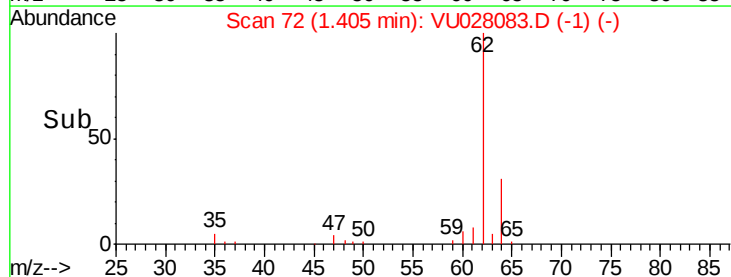
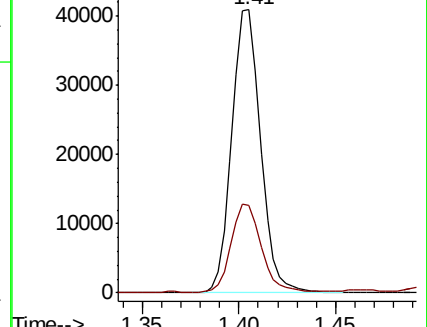
62 100

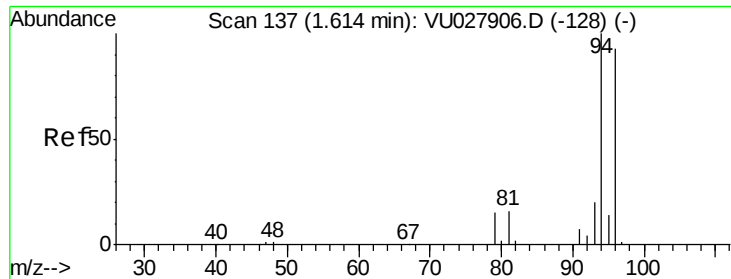
64 30.7 25.2 37.8



Abundance Ion 61.90 (61.60 to 62.60): VU027906.D (-62) (-)

Ion 63.90 (63.60 to 64.60): VU027906.D (-62) (-)





#5

Bromomethane

Concen: 25.150 ug/l

RT: 1.61 min Scan# 136

Delta R.T. -0.00 min

Lab File: VU028083.D

Acq: 13 Nov 2018 11:40

Instrument :

MSVOA_U

ClientSampleId :

VU1113WBS01

Tot Ion: 94 Resp: 21243

Ion Ratio Lower Upper

94 100

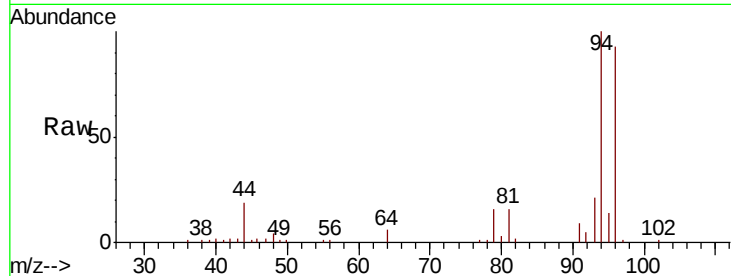
96 92.6 74.8 112.2

Manual Integrations

APPROVED

MMDadoda

11/14/2018 9:34:22 AM



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1.61

20000

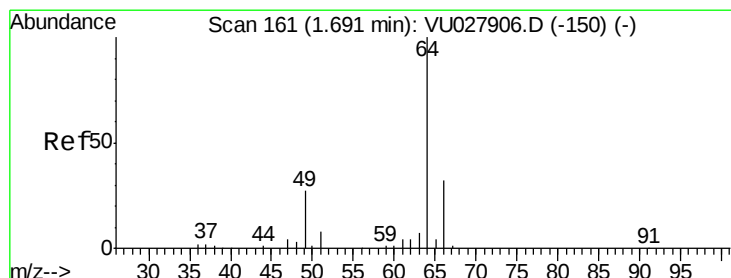
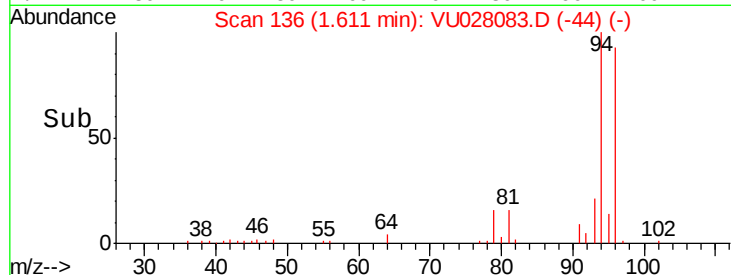
15000

10000

5000

0

Time-->



#6

Chloroethane

Concen: 19.762 ug/l

RT: 1.69 min Scan# 160

Delta R.T. -0.00 min

Lab File: VU028083.D

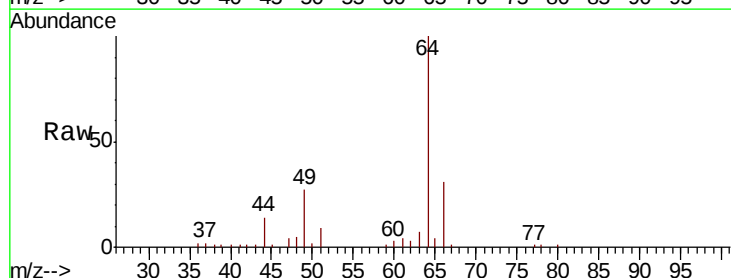
Acq: 13 Nov 2018 11:40

Tgt Ion: 64 Resp: 25800

Ion Ratio Lower Upper

64 100

66 32.4 25.9 38.9



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0

1.69

20000

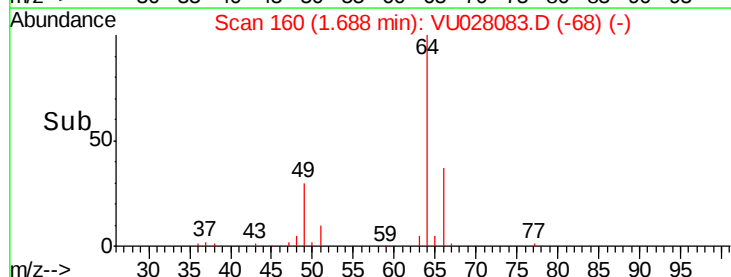
15000

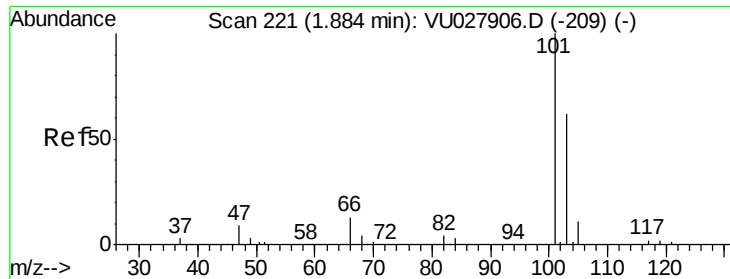
10000

5000

0

Time-->





#7

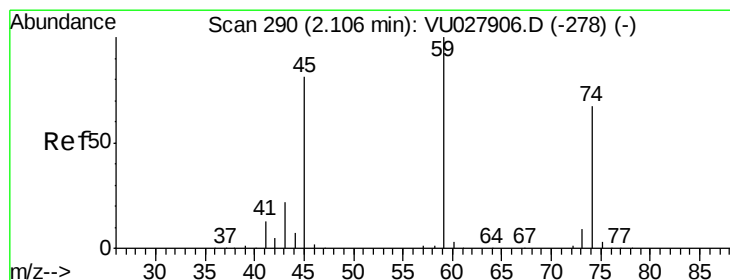
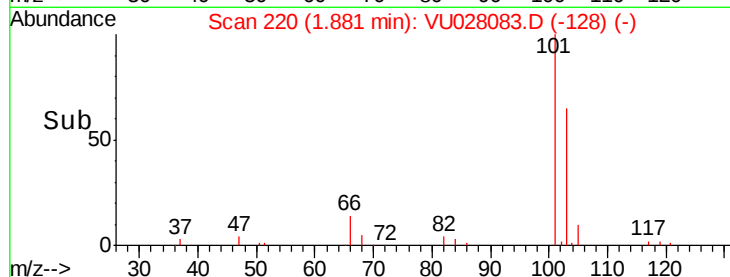
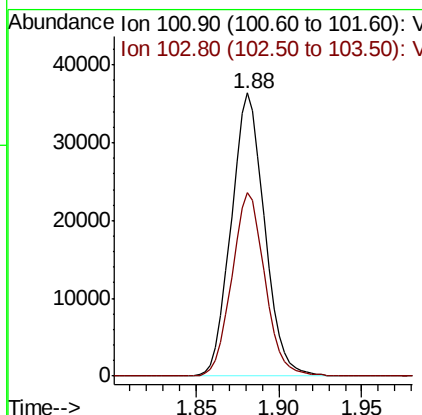
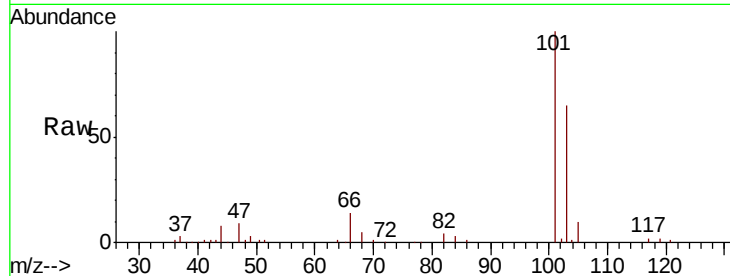
Trichlorofluoromethane
Concen: 19.470 ug/l
RT: 1.88 min Scan# 220
Delta R.T. -0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Instrument :
MSVOA_U
ClientSampleId :
VU1113WBS01

Tot Ion:101 Resp: 50970
Ion Ratio Lower Upper
101 100
103 64.9 49.4 74.2

Manual Integrations
APPROVED

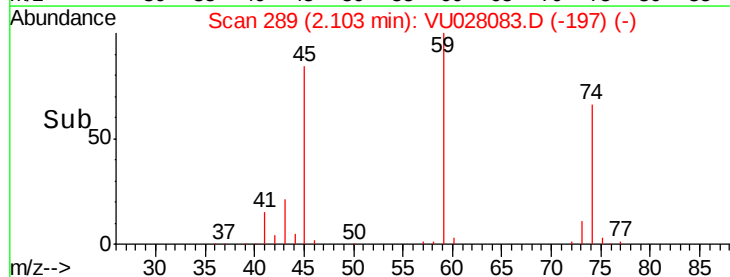
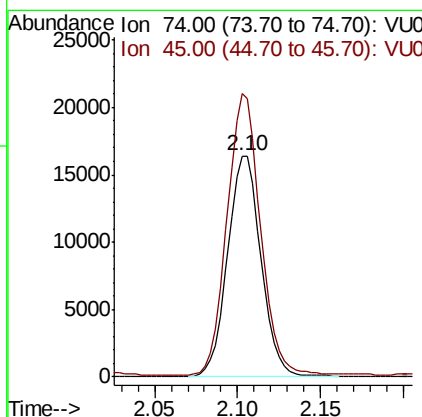
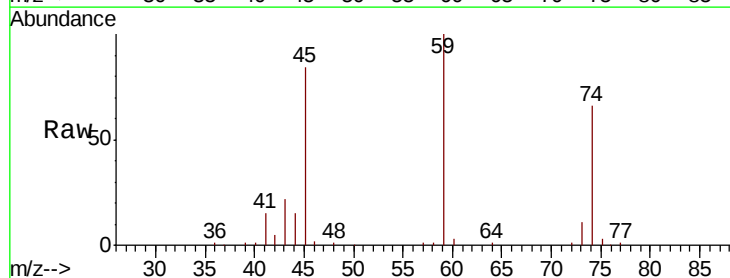
MMDadoda
11/14/2018 9:34:22 AM

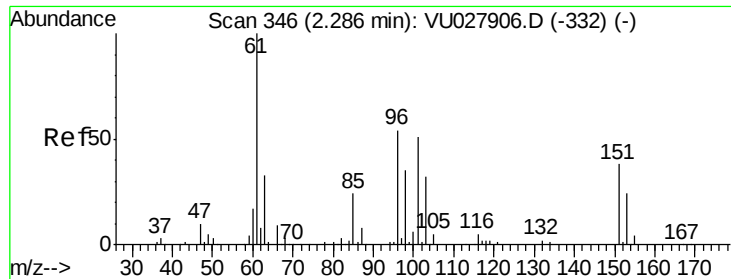


#8

Diethyl Ether
Concen: 20.547 ug/l
RT: 2.10 min Scan# 289
Delta R.T. -0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Tgt Ion: 74 Resp: 23032
Ion Ratio Lower Upper
74 100
45 127.3 60.5 181.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.739 ug/l

RT: 2.28 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU028083.D

Acq: 13 Nov 2018 11:40

Instrument :

MSVOA_U

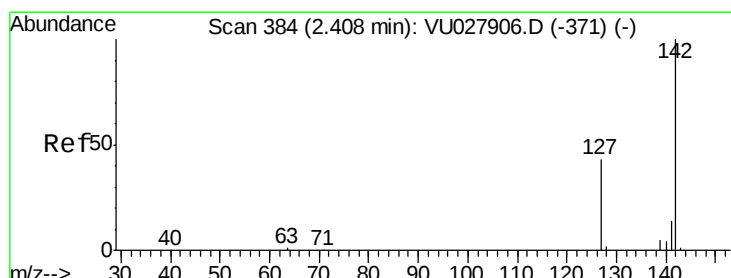
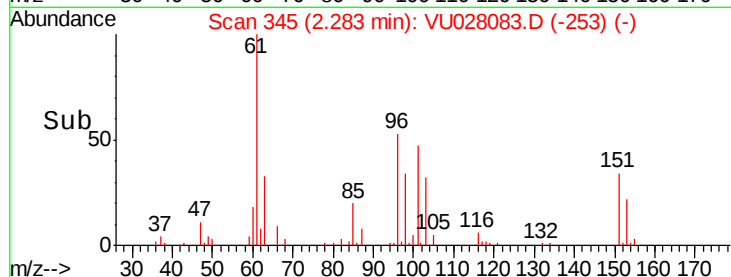
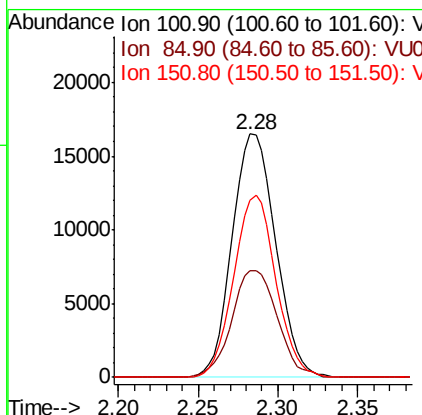
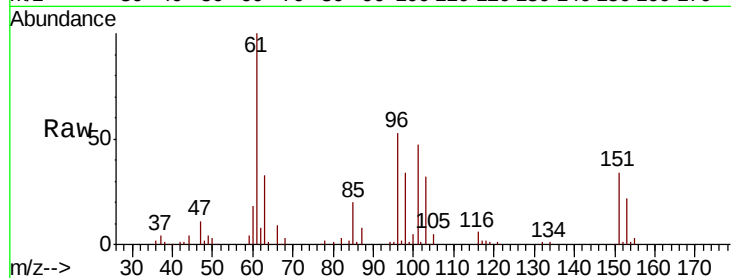
ClientSampleId :

VU1113WBS01

Tot Ion:	101	Resp:	30698
Ion Ratio	Lower	Upper	
101	100		
85	45.9	36.9	55.3
151	72.2	58.0	87.0

Manual Integrations
APPROVED

MMDadoda
11/14/2018 9:34:22 AM



#10

Methyl Iodide

Concen: 25.937 ug/l

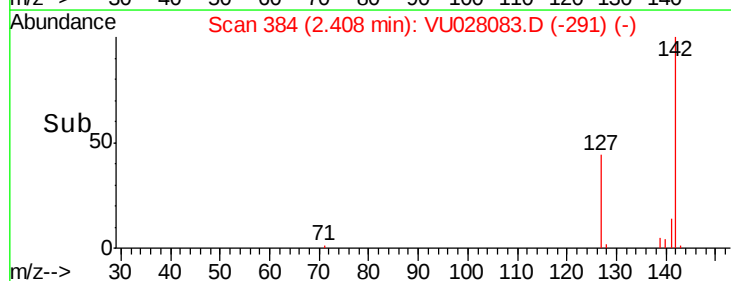
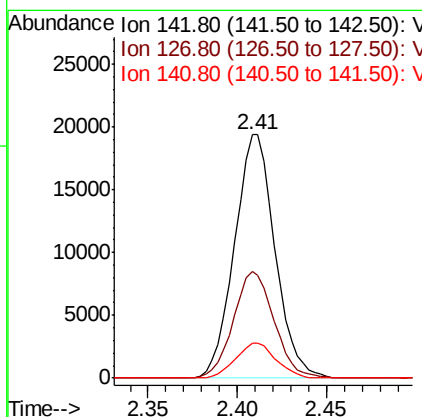
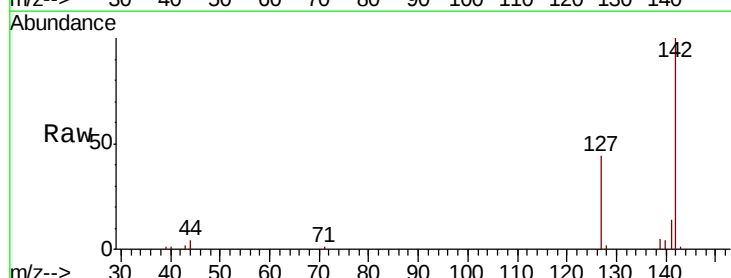
RT: 2.41 min Scan# 384

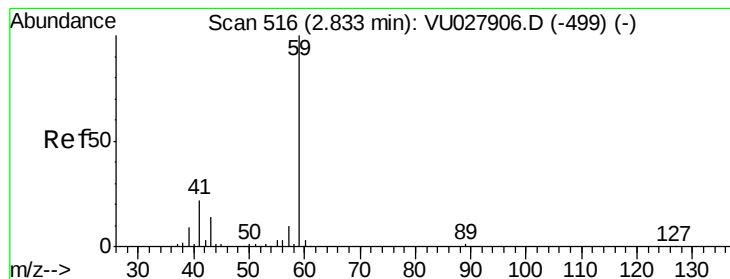
Delta R.T. 0.00 min

Lab File: VU028083.D

Acq: 13 Nov 2018 11:40

Tgt Ion:	142	Resp:	30731
Ion Ratio	Lower	Upper	
142	100		
127	43.9	35.2	52.8
141	14.3	11.8	17.8





#11

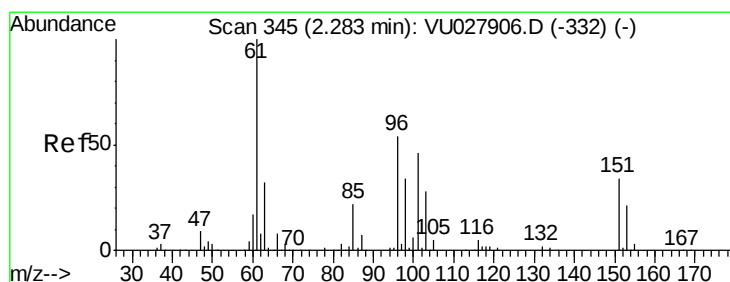
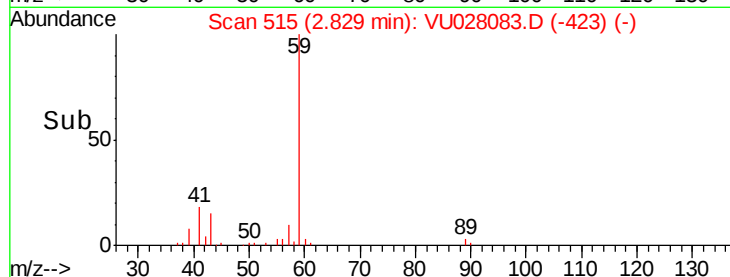
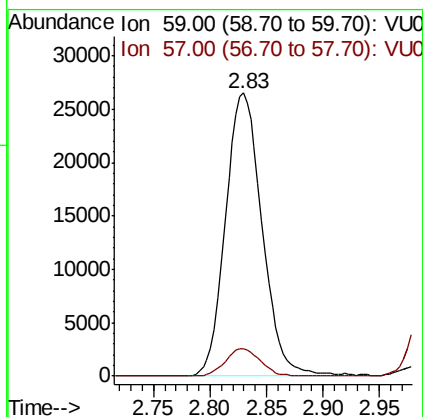
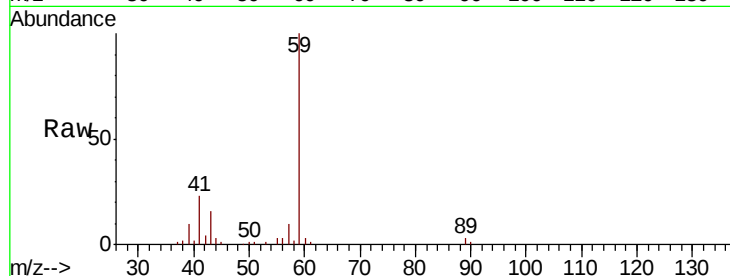
Tert butyl alcohol
Concen: 101.939 ug/l
RT: 2.83 min Scan# 515
Delta R.T. -0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Instrument :
MSVOA_U
ClientSampleId :
VU1113WBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.2	7.8	11.8

Manual Integrations
APPROVED

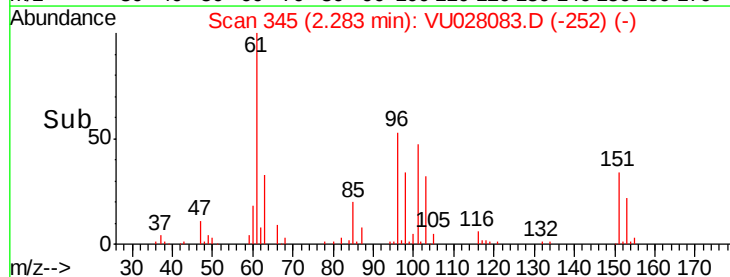
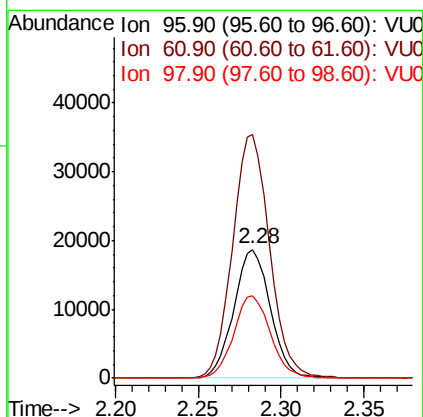
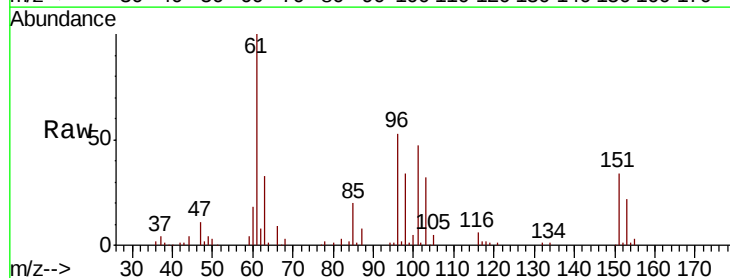
MMDadoda
11/14/2018 9:34:22 AM



#12

1,1-Dichloroethene
Concen: 18.416 ug/l
RT: 2.28 min Scan# 345
Delta R.T. 0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Tgt Ion	Ratio	Lower	Upper
96	100		
61	189.5	149.3	223.9
98	63.7	50.6	75.8





#13

Acrolein

Concen: 56.306 ug/l

RT: 2.20 min Scan# 318

Delta R.T. 0.00 min

Lab File: VU028083.D

Acq: 13 Nov 2018 11:40

Instrument :

MSVOA_U

ClientSampleId :

VU1113WBS01

Tot Ion: 56 Resp: 13240

Ion Ratio Lower Upper

56 100

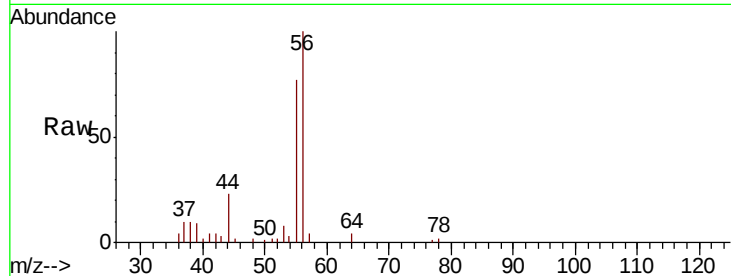
55 79.4 56.2 84.4

Manual Integrations

APPROVED

MMDadoda

11/14/2018 9:34:22 AM



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

2.20

8000

6000

4000

2000

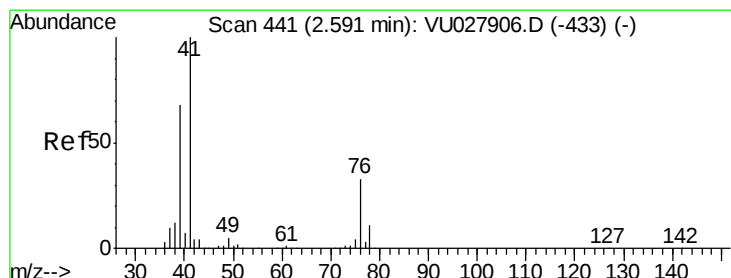
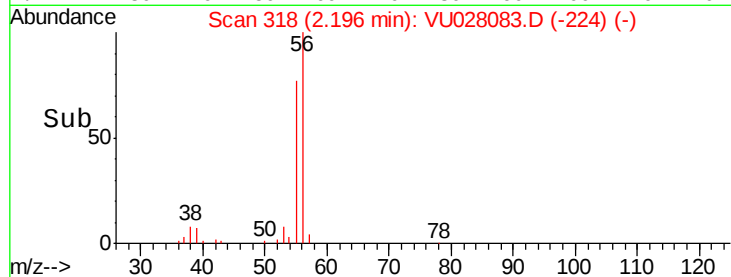
0

Time-->

2.15

2.20

2.25



#14

Allyl chloride

Concen: 18.585 ug/l

RT: 2.59 min Scan# 441

Delta R.T. 0.00 min

Lab File: VU028083.D

Acq: 13 Nov 2018 11:40

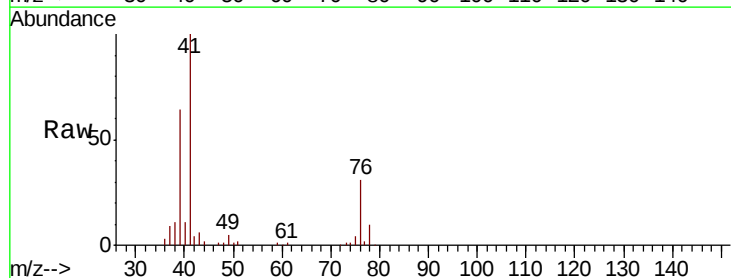
Tgt Ion: 41 Resp: 70709

Ion Ratio Lower Upper

41 100

39 66.1 51.9 77.9

76 30.7 23.8 35.6



Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 75.90 (75.60 to 76.60): VU0

50000

40000

30000

20000

10000

0

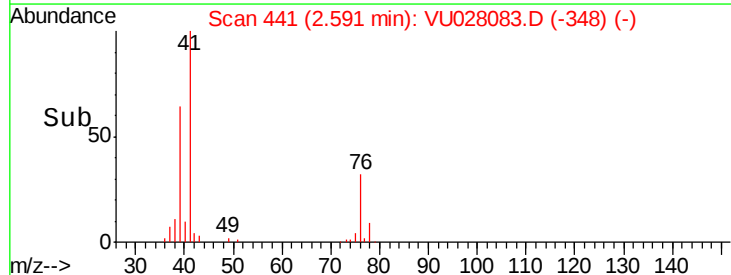
Time-->

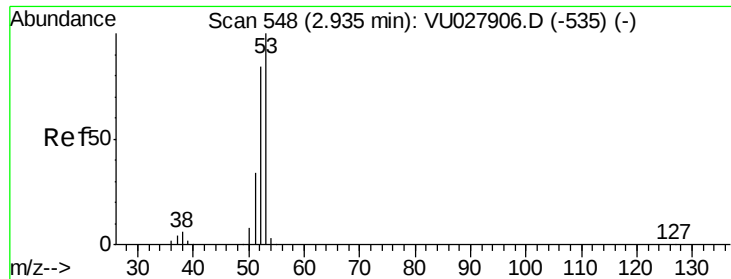
2.55

2.60

2.65

2.70





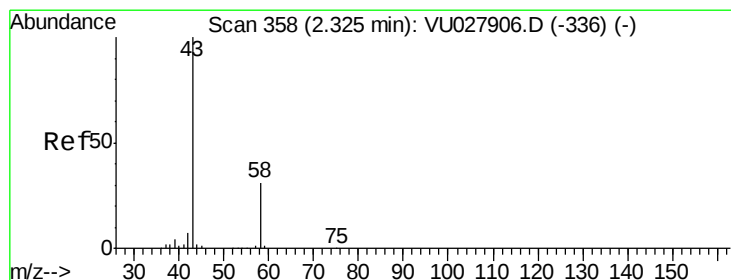
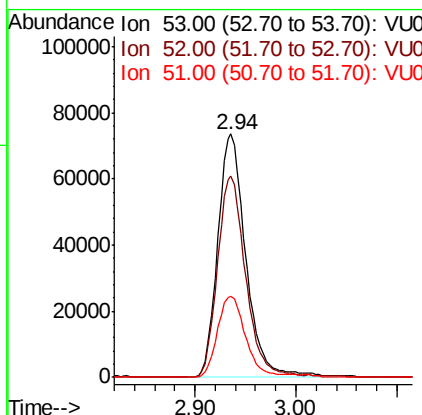
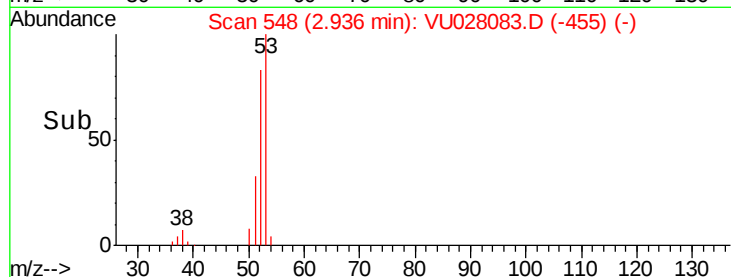
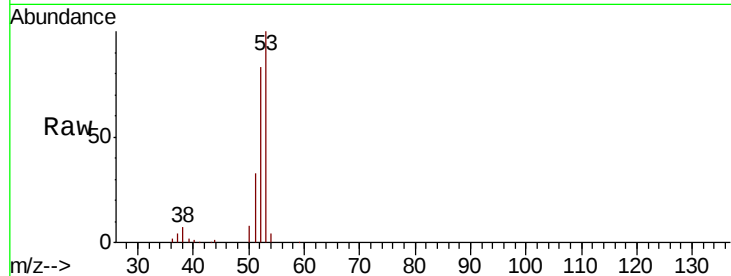
#15
 Acrylonitrile
 Concen: 99.640 ug/l
 RT: 2.94 min Scan# 548
 Delta R.T. 0.00 min
 Lab File: VU028083.D
 Acq: 13 Nov 2018 11:40

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1113WBS01

Tot Ion	Ratio	Lower	Upper
53	100		
52	82.7	66.2	99.2
51	33.2	27.0	40.4

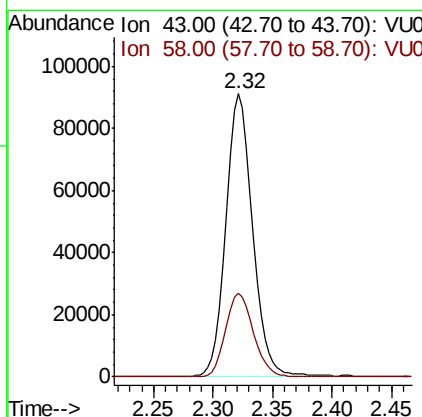
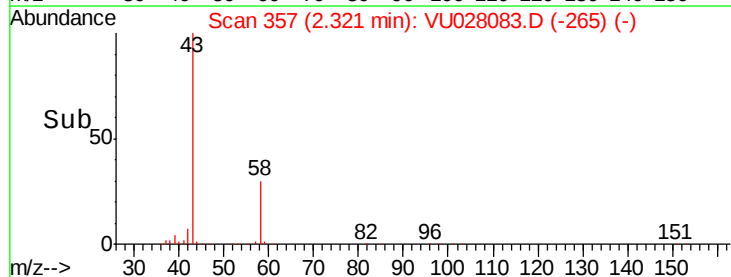
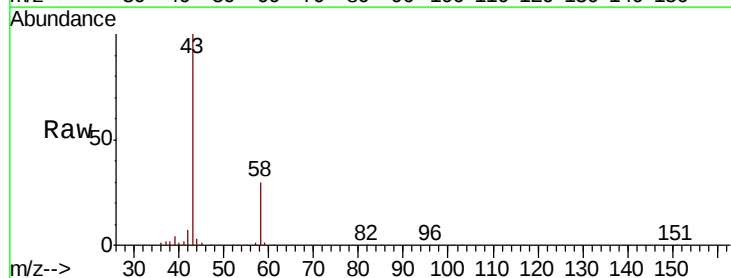
Manual Integrations
 APPROVED

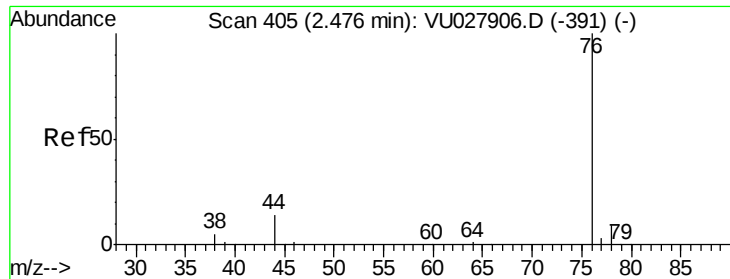
MMDadoda
 11/14/2018 9:34:22 AM



#16
 Acetone
 Concen: 102.466 ug/l
 RT: 2.32 min Scan# 357
 Delta R.T. -0.00 min
 Lab File: VU028083.D
 Acq: 13 Nov 2018 11:40

Tgt Ion	Ratio	Lower	Upper
43	100		
58	29.7	24.6	37.0





#17

Carbon Disulfide

Concen: 17.030 ug/l

RT: 2.48 min Scan# 405

Delta R.T. 0.00 min

Lab File: VU028083.D

Acq: 13 Nov 2018 11:40

Instrument :

MSVOA_U

ClientSampleId :

VU1113WBS01

Tot Ion: 76 Resp: 86653

Ion Ratio Lower Upper

76 100

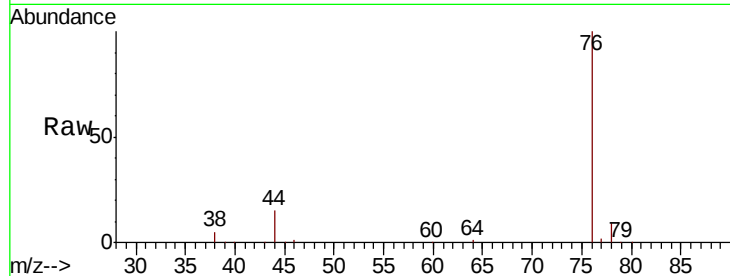
78 9.1 7.4 11.0

Manual Integrations

APPROVED

MMDadoda

11/14/2018 9:34:22 AM



Abundance Ion 75.90 (75.60 to 76.60): VU028083.D (-312) (-)

Ion 77.90 (77.60 to 78.60): VU028083.D (-312) (-)

2.48

60000

50000

40000

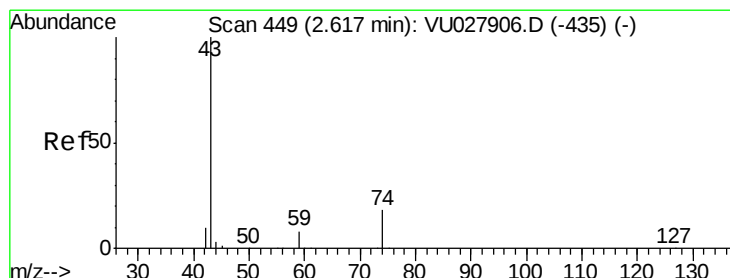
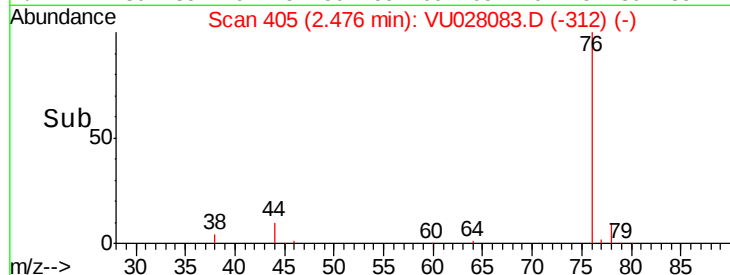
30000

20000

10000

0

Time-->



#18

Methyl Acetate

Concen: 20.946 ug/l

RT: 2.62 min Scan# 449

Delta R.T. 0.00 min

Lab File: VU028083.D

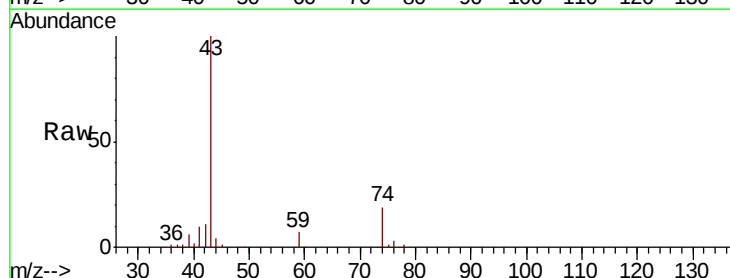
Acq: 13 Nov 2018 11:40

Tgt Ion: 43 Resp: 78943

Ion Ratio Lower Upper

43 100

74 19.2 14.9 22.3



Abundance Ion 43.00 (42.70 to 43.70): VU028083.D (-356) (-)

Ion 74.00 (73.70 to 74.70): VU028083.D (-356) (-)

2.62

50000

40000

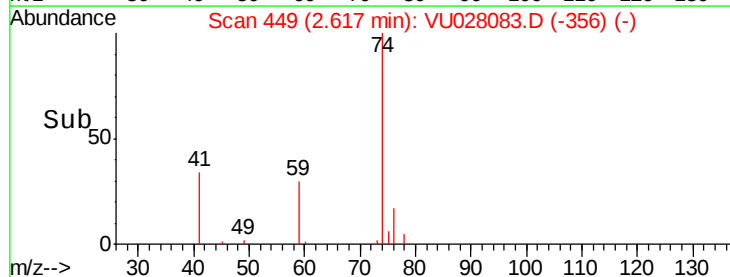
30000

20000

10000

0

Time-->





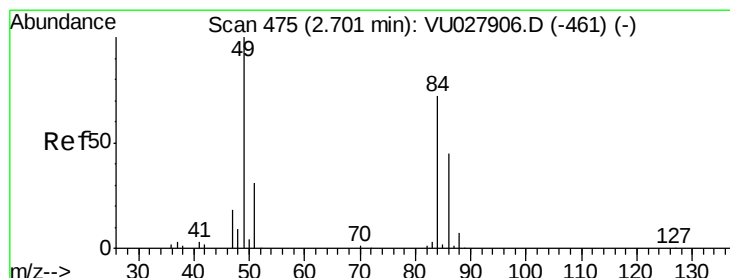
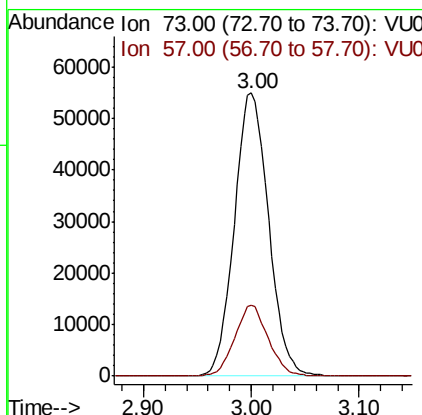
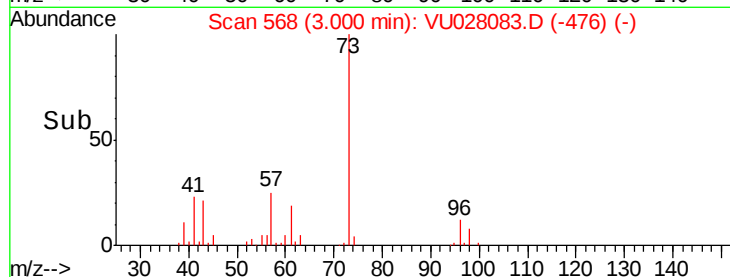
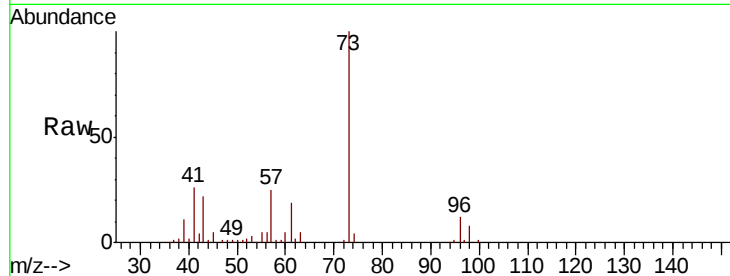
#19
Methvl tert-butvl Ether
Concen: 19.350 ug/l
RT: 3.00 min Scan# 568
Delta R.T. -0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Instrument :
MSVOA_U
ClientSampleId :
VU1113WBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	25.3	19.3	28.9

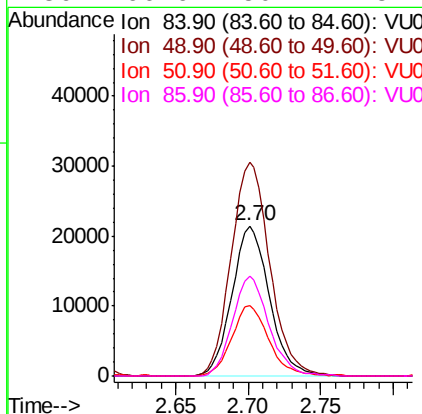
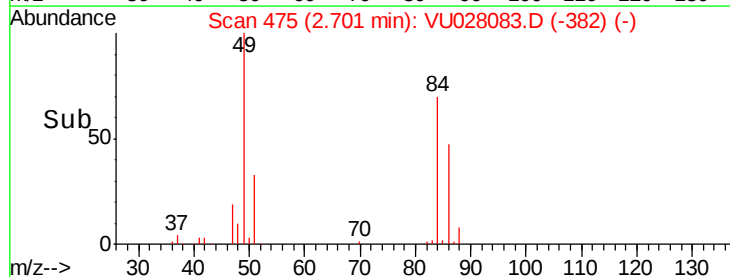
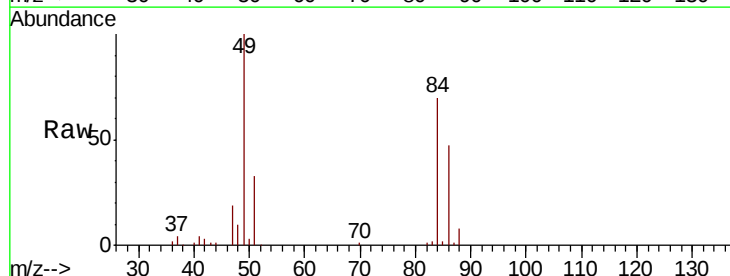
Manual Integrations
APPROVED

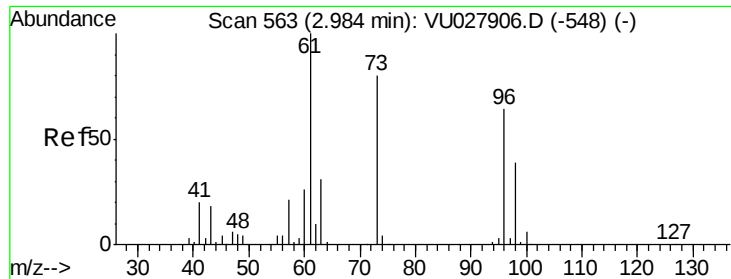
MMDadoda
11/14/2018 9:34:22 AM



#20
Methylene Chloride
Concen: 19.194 ug/l
RT: 2.70 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Tgt Ion	Ratio	Lower	Upper
84	100		
49	142.0	111.6	167.4
51	47.0	34.8	52.2
86	66.6	50.1	75.1





#21

trans-1,2-Dichloroethene

Concen: 17.695 ug/l

RT: 2.98 min Scan# 562

Delta R.T. -0.00 min

Lab File: VU028083.D

Acq: 13 Nov 2018 11:40

Instrument :

MSVOA_U

ClientSampleId :

VU1113WBS01

Tot Ion: 96 Resp: 31789

Ion Ratio Lower Upper

96 100

61 168.6 125.0 187.6

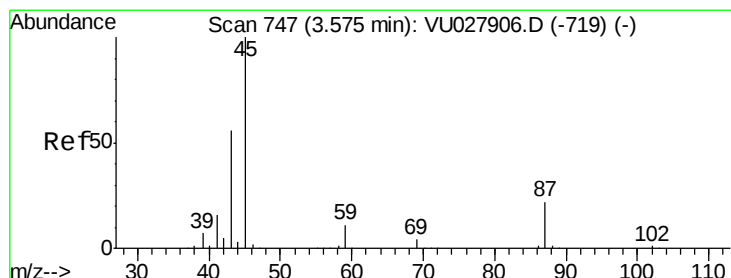
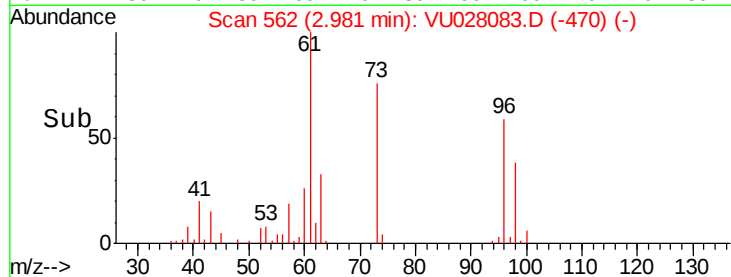
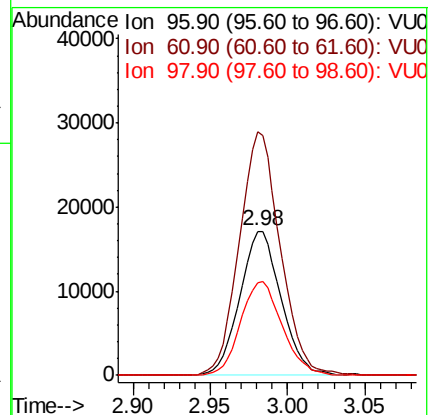
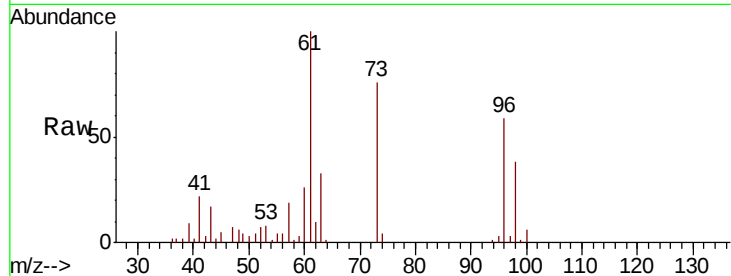
98 64.1 48.2 72.4

Manual Integrations

APPROVED

MMDadoda

11/14/2018 9:34:22 AM



#22

Diisopropyl ether

Concen: 20.210 ug/l

RT: 3.57 min Scan# 746

Delta R.T. -0.00 min

Lab File: VU028083.D

Acq: 13 Nov 2018 11:40

Tgt Ion: 45 Resp: 158746

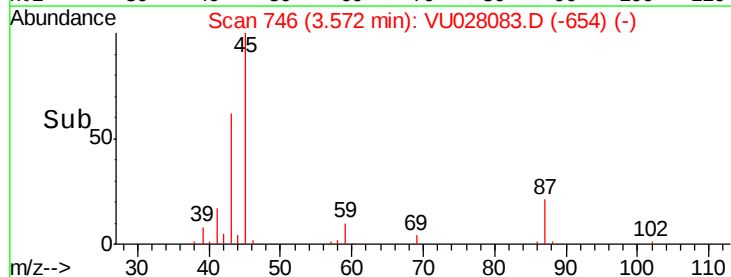
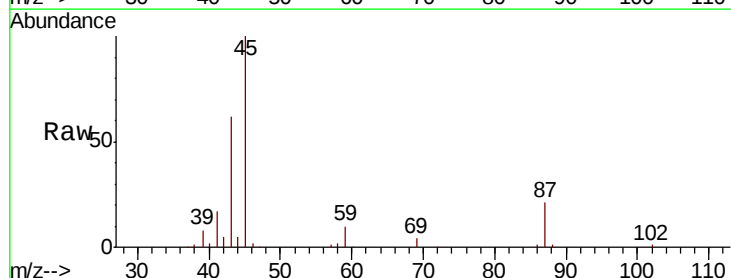
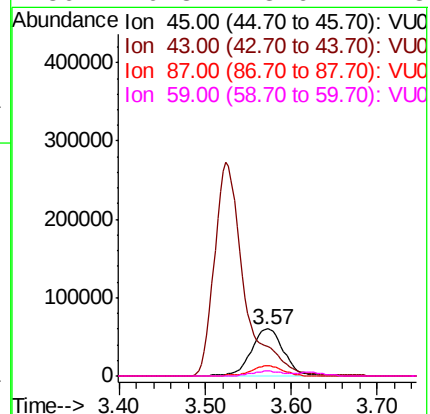
Ion Ratio Lower Upper

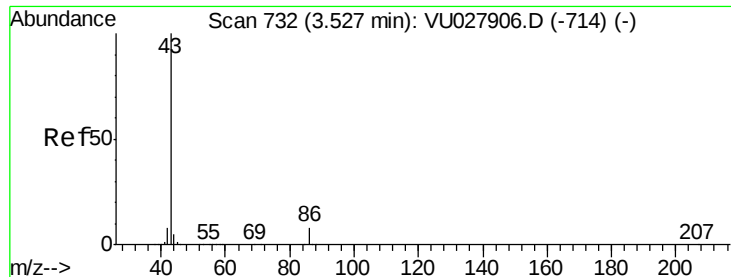
45 100

43 60.8 45.0 67.6

87 21.3 17.9 26.9

59 10.3 8.6 12.8





#23

Vinyl Acetate

Concen: 98.097 ug/l

RT: 3.52 min Scan# 731

Delta R.T. -0.00 min

Lab File: VU028083.D

Acq: 13 Nov 2018 11:40

Instrument :

MSVOA_U

ClientSampleId :

VU1113WBS01

Tot Ion: 43 Resp: 662213

Ion Ratio Lower Upper

43 100

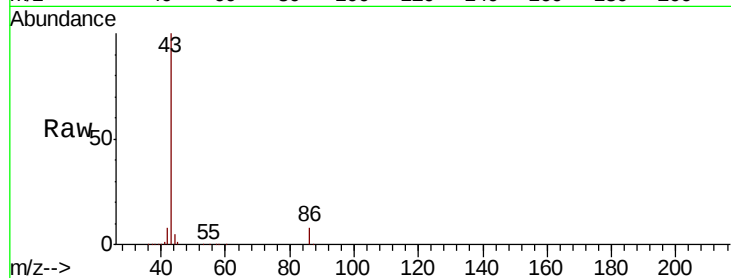
86 8.0 6.6 9.8

Manual Integrations

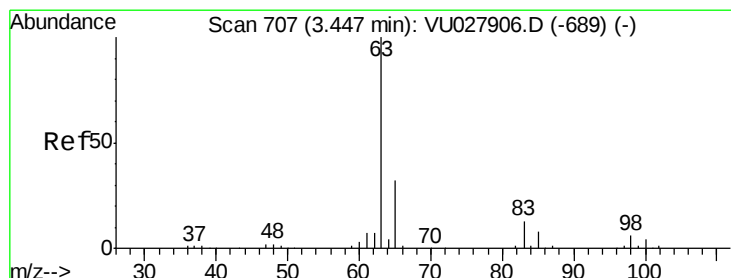
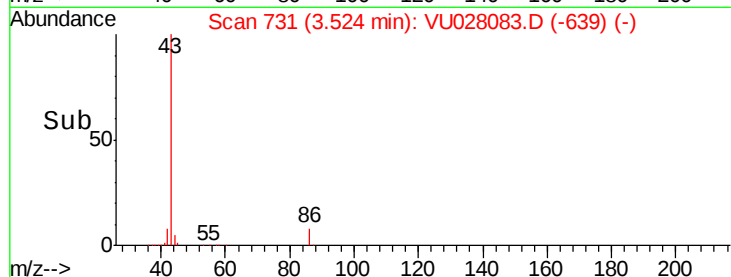
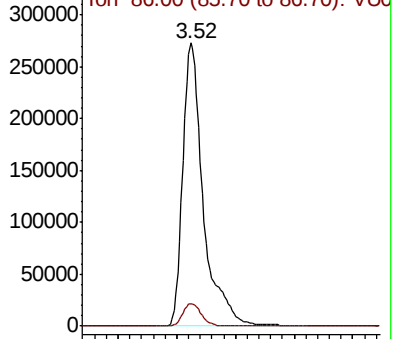
APPROVED

MMDadoda

11/14/2018 9:34:22 AM



Abundance Ion 43.00 (42.70 to 43.70): VU027906.D (-714) (-)



#24

1,1-Dichloroethane

Concen: 19.181 ug/l

RT: 3.45 min Scan# 707

Delta R.T. 0.00 min

Lab File: VU028083.D

Acq: 13 Nov 2018 11:40

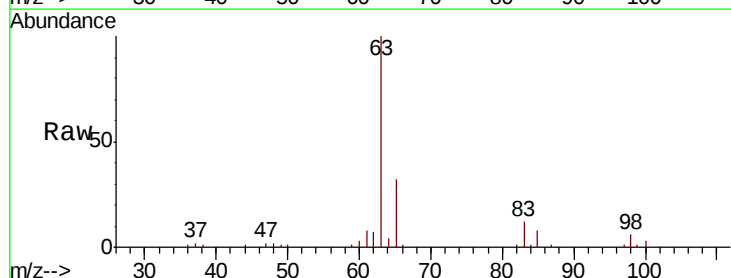
Tgt Ion: 63 Resp: 75046

Ion Ratio Lower Upper

63 100

98 5.5 2.9 8.6

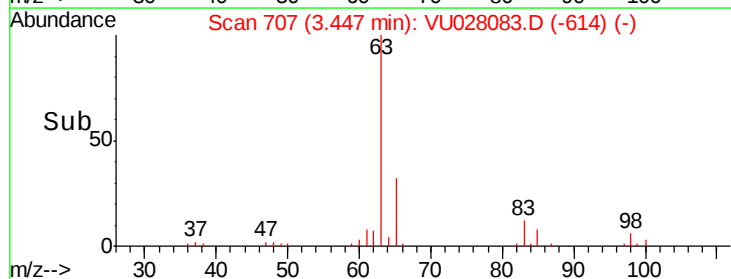
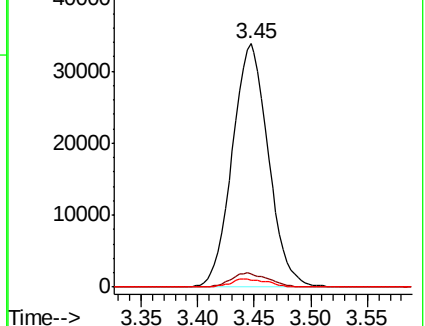
100 3.1 2.0 6.0



Abundance Ion 62.90 (62.60 to 63.60): VU027906.D (-689) (-)

Ion 97.90 (97.60 to 98.60): VU027906.D (-689) (-)

Ion 99.90 (99.60 to 100.60): VU027906.D (-689) (-)





#25

2-Butanone

Concen: 100.115 ug/l

RT: 4.26 min Scan# 961

Delta R.T. 0.00 min

Lab File: VU028083.D

Acq: 13 Nov 2018 11:40

Instrument :

MSVOA_U

ClientSampleId :

VU1113WBS01

Tot Ion: 43 Resp: 218221

Ion Ratio Lower Upper

43 100

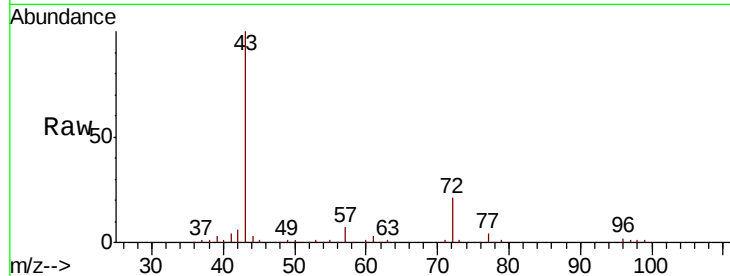
72 21.1 17.7 26.5

Manual Integrations

APPROVED

MMDadoda

11/14/2018 9:34:22 AM



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

4.26

100000

80000

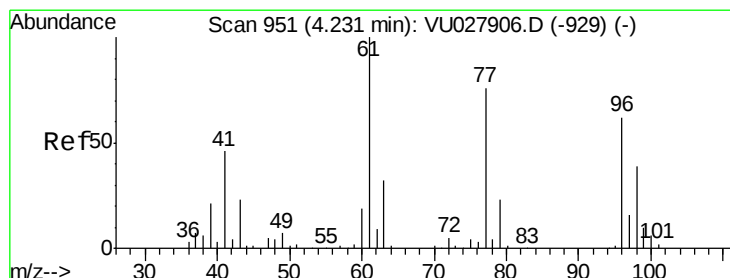
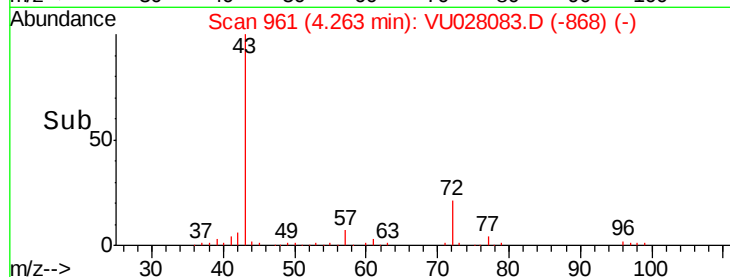
60000

40000

20000

0

Time--> 4.15 4.20 4.25 4.30 4.35



#26

2,2-Dichloropropane

Concen: 19.850 ug/l

RT: 4.23 min Scan# 950

Delta R.T. -0.00 min

Lab File: VU028083.D

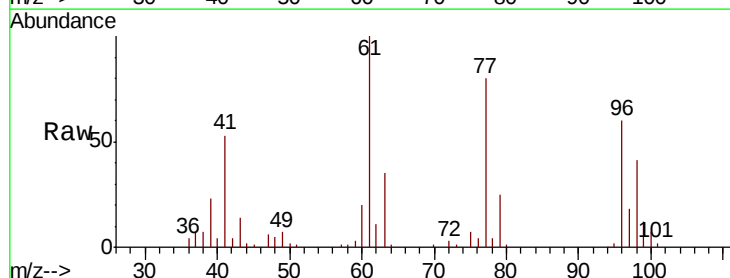
Acq: 13 Nov 2018 11:40

Tgt Ion: 77 Resp: 58280

Ion Ratio Lower Upper

77 100

97 22.7 11.2 33.5



Abundance Ion 76.90 (76.60 to 77.60): VU0

Ion 96.90 (96.60 to 97.60): VU0

4.23

25000

20000

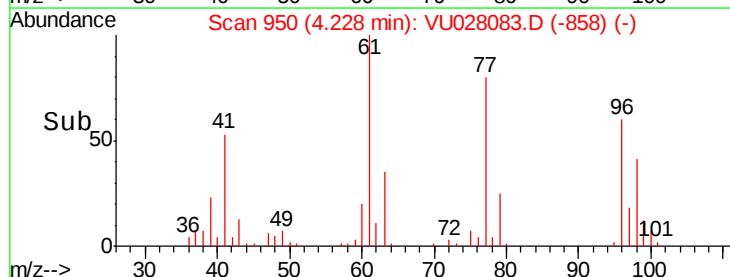
15000

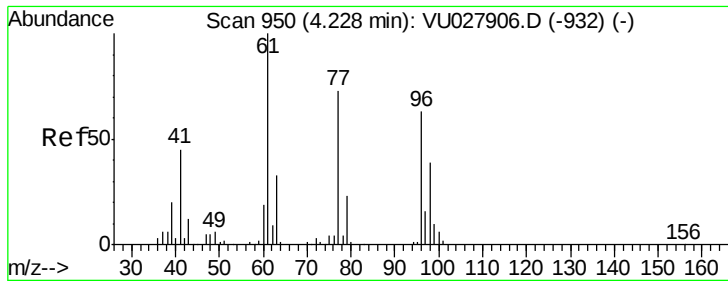
10000

5000

0

Time--> 4.10 4.20 4.30





#27

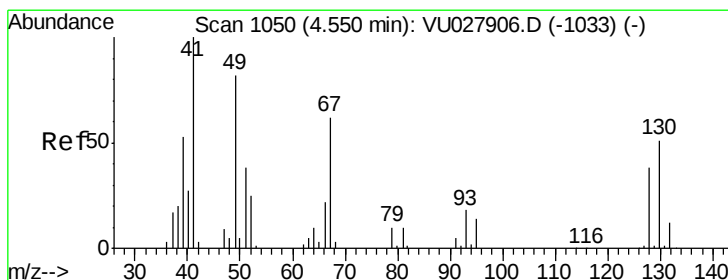
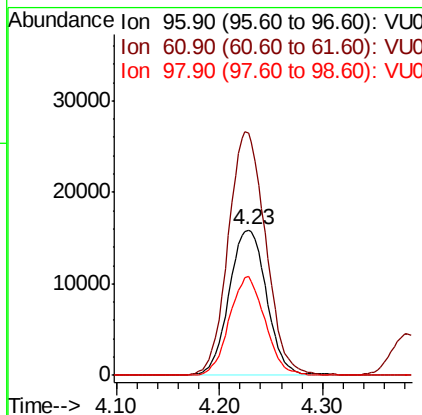
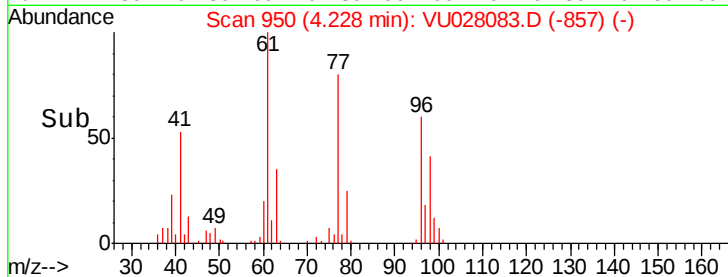
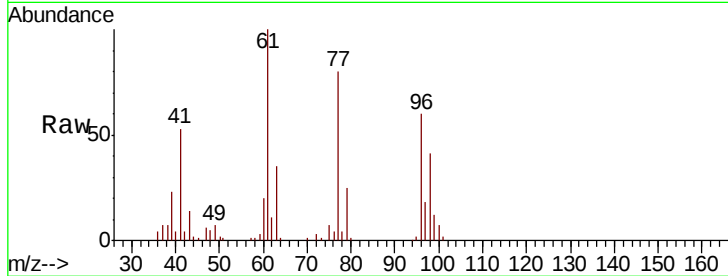
cis-1,2-Dichloroethene
Concen: 19.986 ug/l
RT: 4.23 min Scan# 950
Delta R.T. 0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Instrument :
MSVOA_U
ClientSampleId :
VU1113WBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	166.7	0.0	329.6
98	64.2	0.0	127.2

Manual Integrations
APPROVED

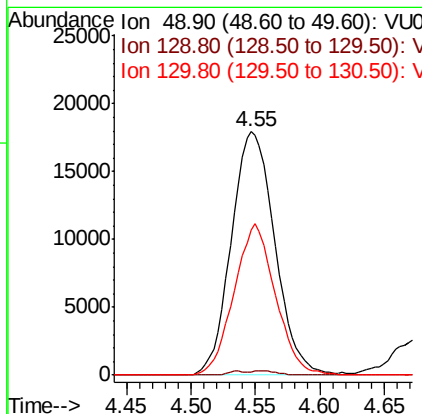
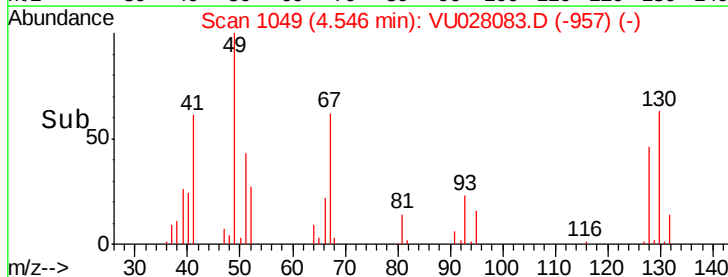
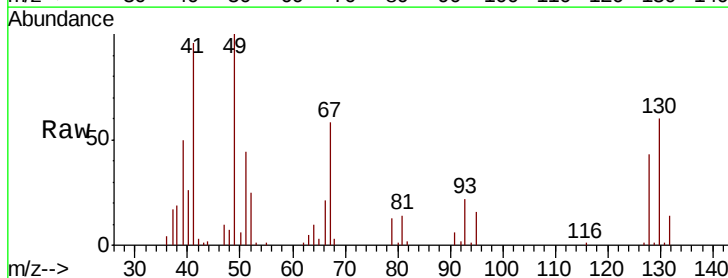
MMDadoda
11/14/2018 9:34:22 AM

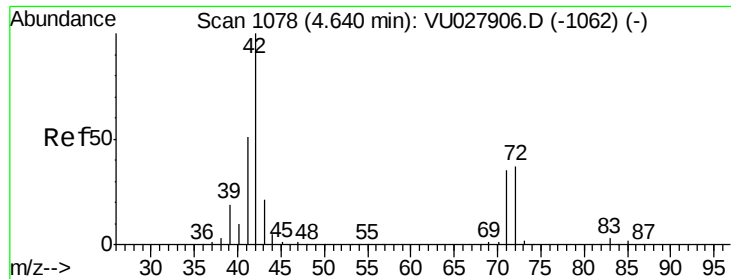


#28

Bromochloromethane
Concen: 22.936 ug/l
RT: 4.55 min Scan# 1049
Delta R.T. -0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.9	0.0	3.0
130	59.1	47.8	71.6





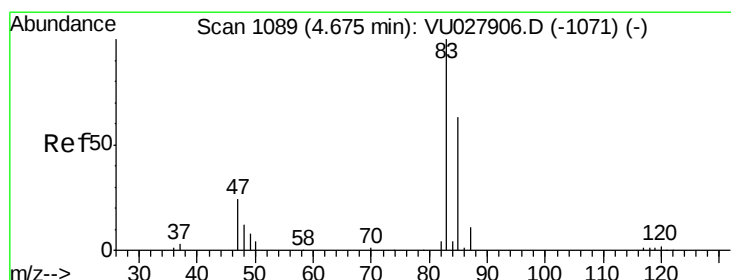
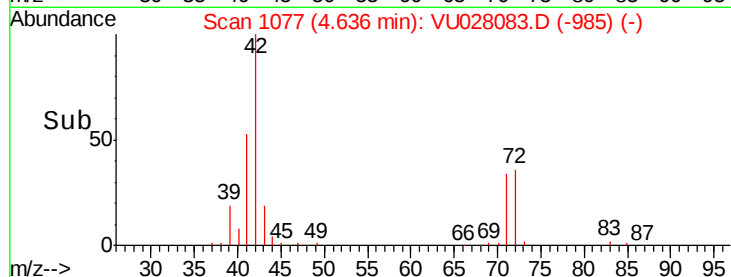
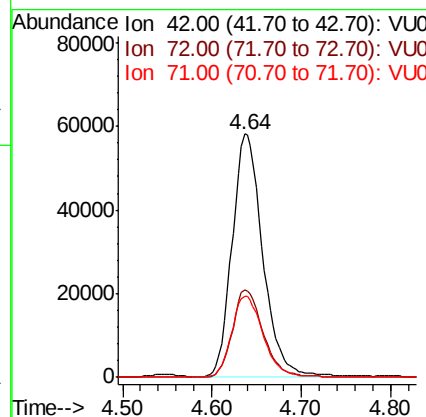
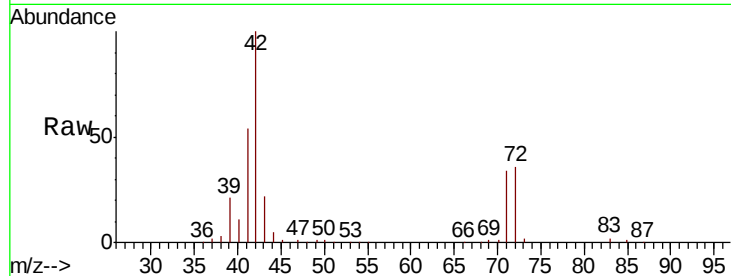
#29
Tetrahydrofuran
Concen: 94.651 ug/l
RT: 4.64 min Scan# 1077
Delta R.T. -0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Instrument :
MSVOA_U
ClientSampleId :
VU1113WBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.6	29.4	44.0
71	34.8	27.9	41.9

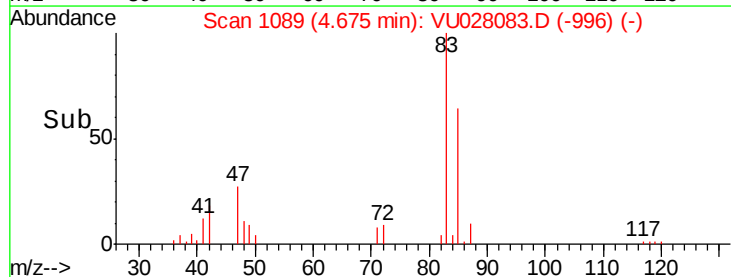
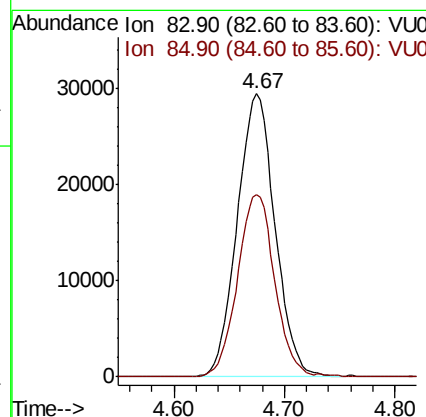
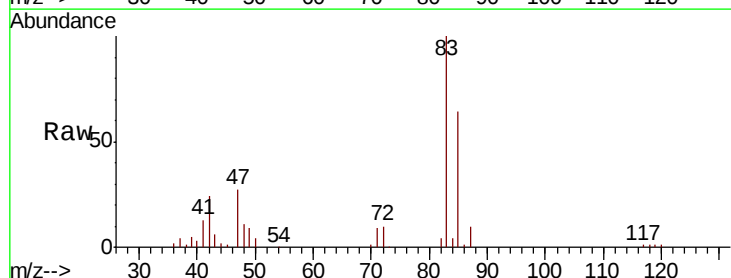
Manual Integrations
APPROVED

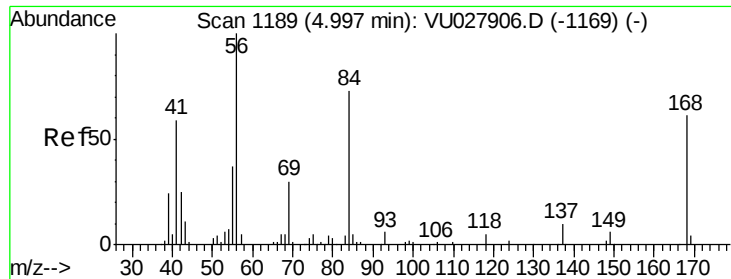
MMDadoda
11/14/2018 9:34:22 AM



#30
Chloroform
Concen: 19.476 ug/l
RT: 4.67 min Scan# 1089
Delta R.T. 0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.4	50.6	76.0





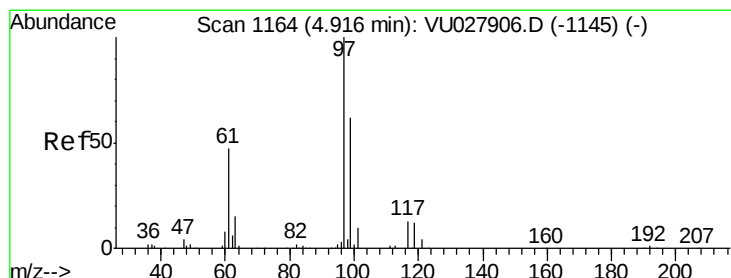
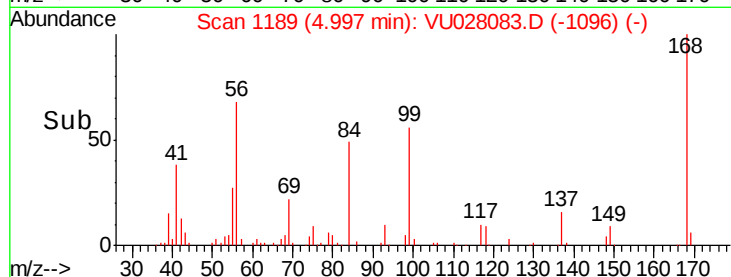
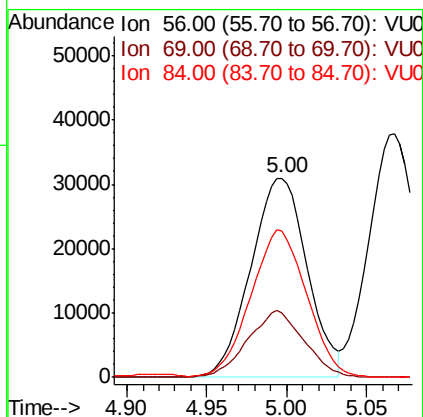
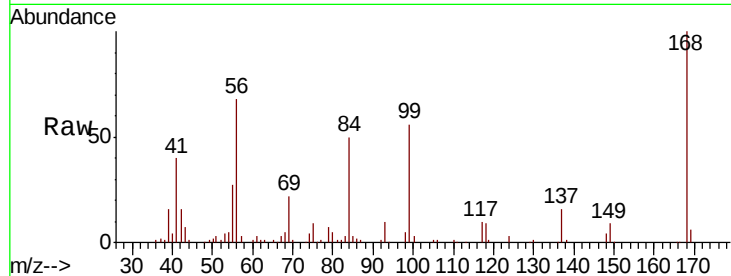
#31
Cyclohexane
Concen: 18.605 ug/l
RT: 5.00 min Scan# 1189
Delta R.T. 0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Instrument :
MSVOA_U
ClientSampleId :
VU1113WBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.5	23.7	35.5
84	73.0	58.2	87.4

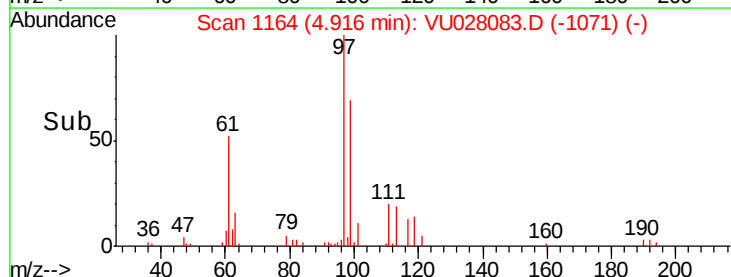
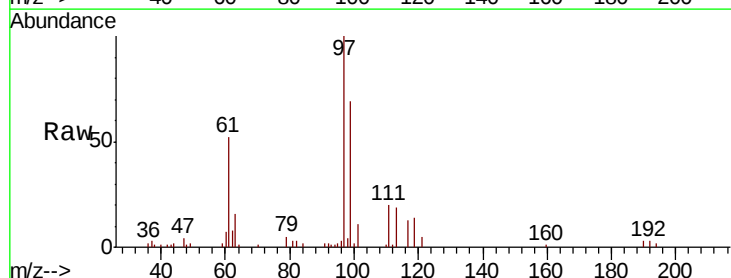
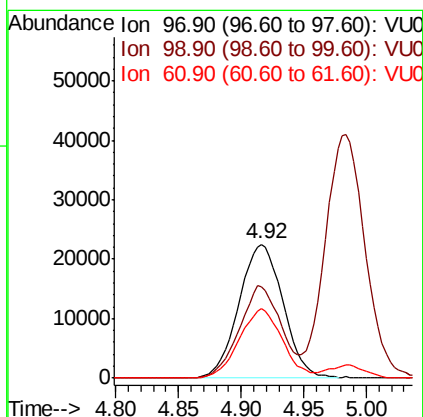
Manual Integrations
APPROVED

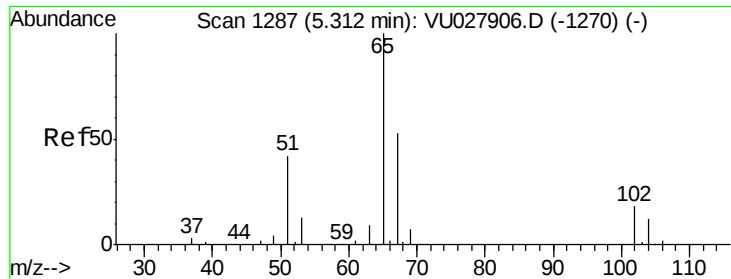
MMDadoda
11/14/2018 9:34:22 AM



#32
1,1,1-Trichloroethane
Concen: 19.339 ug/l
RT: 4.92 min Scan# 1164
Delta R.T. 0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.8	50.5	75.7
61	50.4	38.3	57.5





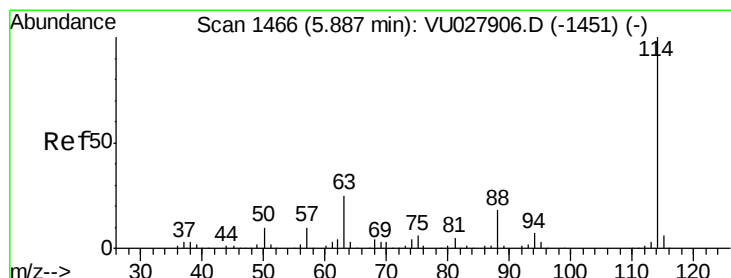
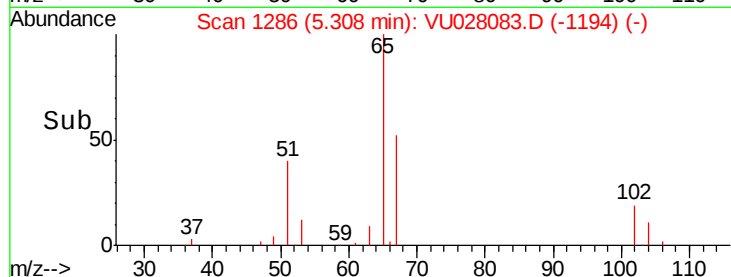
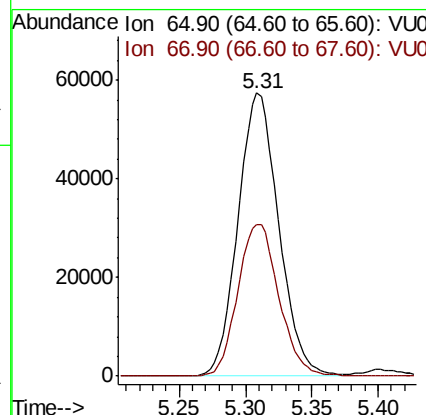
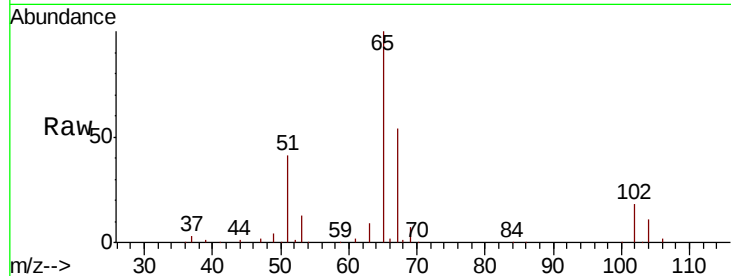
#33
 1,2-Dichloroethane-d4
 Concen: 55.515 ug/l
 RT: 5.31 min Scan# 1286
 Delta R.T. -0.00 min
 Lab File: VU028083.D
 Acq: 13 Nov 2018 11:40

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1113WBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	122592		
67	54.0	0.0	109.0	

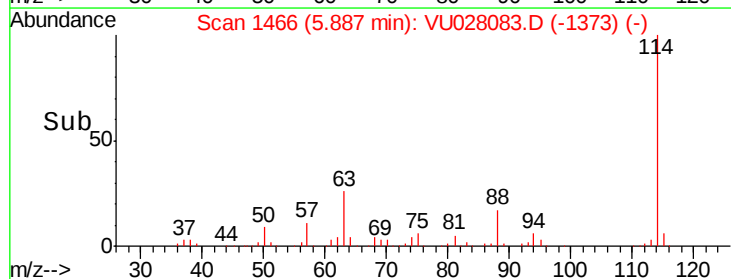
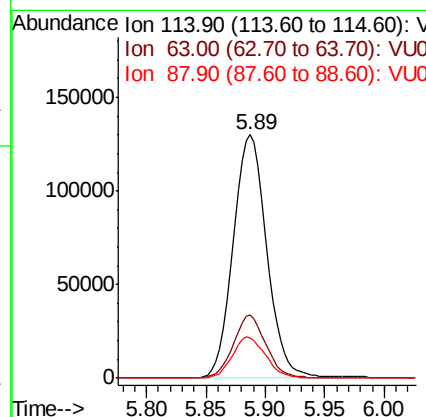
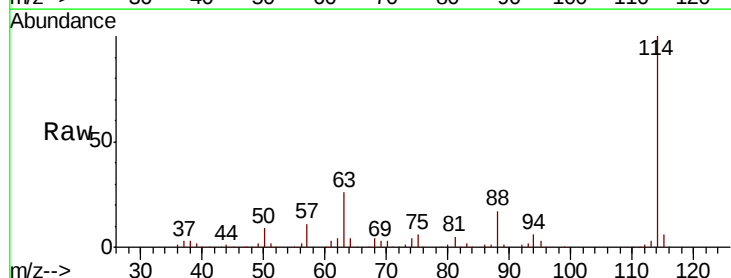
Manual Integrations
 APPROVED

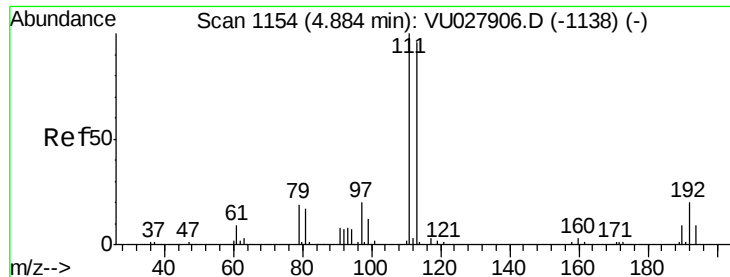
MMDadoda
 11/14/2018 9:34:22 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. 0.00 min
 Lab File: VU028083.D
 Acq: 13 Nov 2018 11:40

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	255054		
63	25.8	0.0	50.8	
88	16.6	0.0	35.8	





#35

Dibromofluoromethane

Concen: 53.750 ug/l

RT: 4.88 min Scan# 1154

Delta R.T. 0.00 min

Lab File: VU028083.D

Acq: 13 Nov 2018 11:40

Instrument :

MSVOA_U

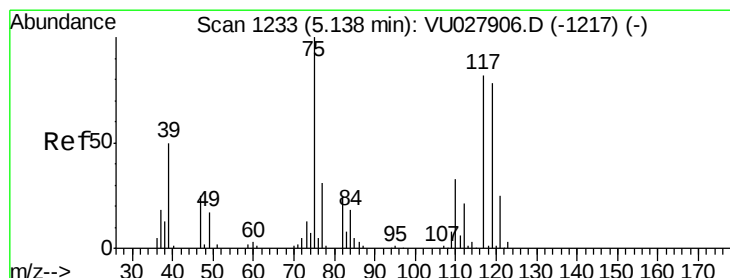
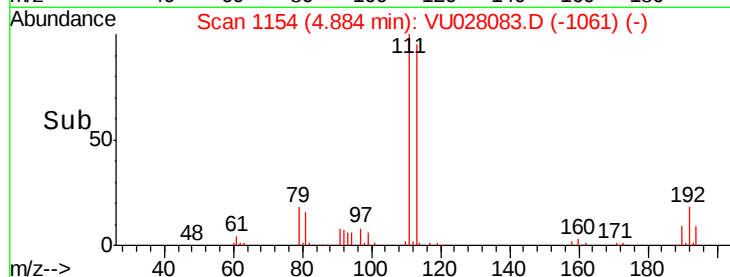
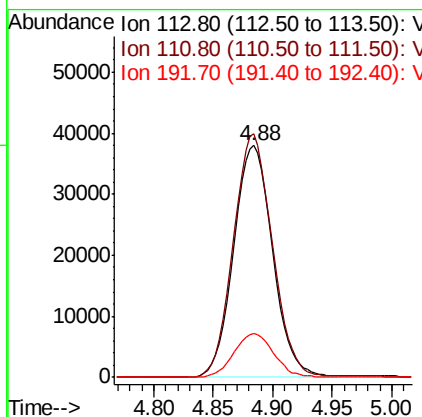
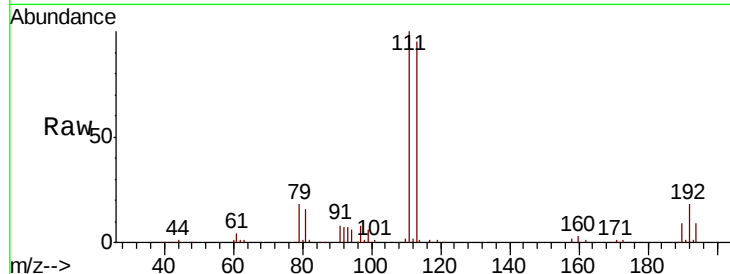
ClientSampleId :

VU1113WBS01

Tot Ion:	113	Resp:	86439
Ion	Ratio	Lower	Upper
113	100		
111	104.7	83.0	124.6
192	19.3	15.6	23.4

Manual Integrations
APPROVED

MMDadoda
11/14/2018 9:34:22 AM



#36

1,1-Dichloropropene

Concen: 18.956 ug/l

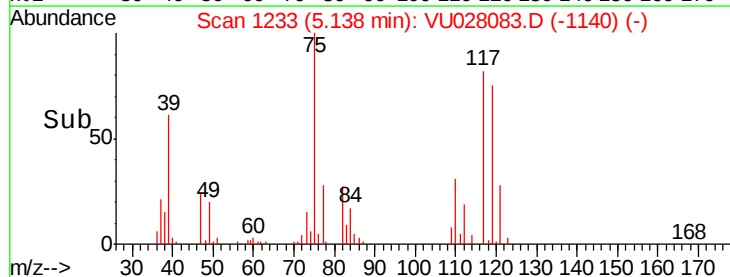
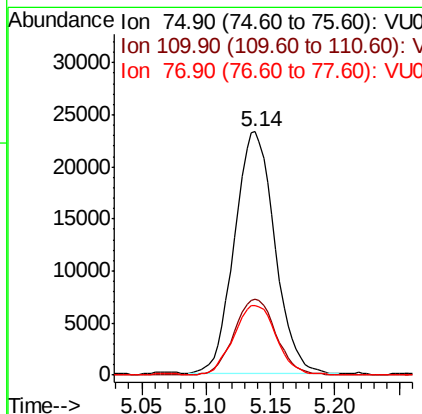
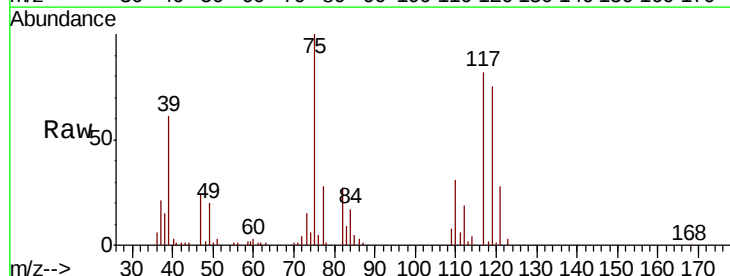
RT: 5.14 min Scan# 1233

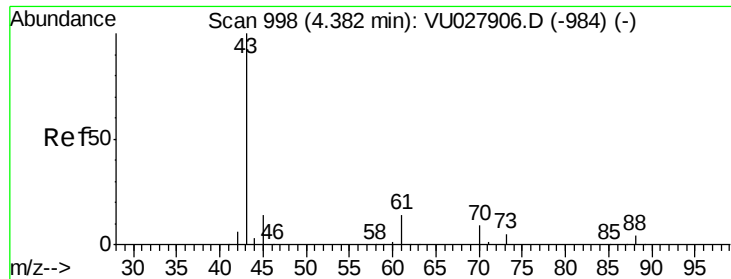
Delta R.T. 0.00 min

Lab File: VU028083.D

Acq: 13 Nov 2018 11:40

Tgt Ion:	75	Resp:	50637
Ion	Ratio	Lower	Upper
75	100		
110	32.6	16.5	49.5
77	30.4	24.9	37.3





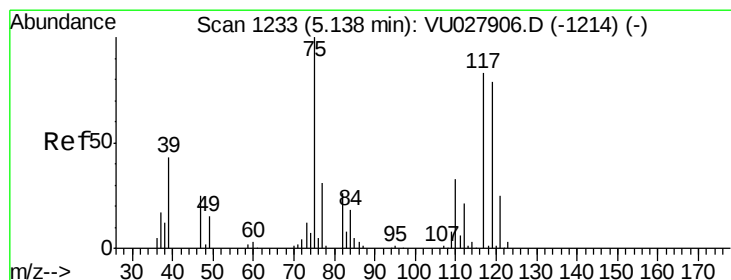
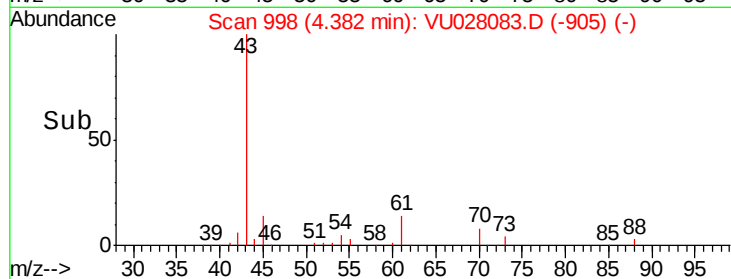
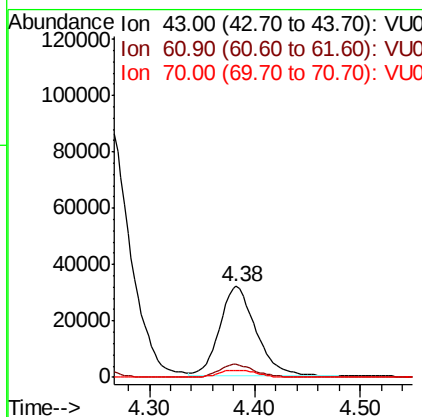
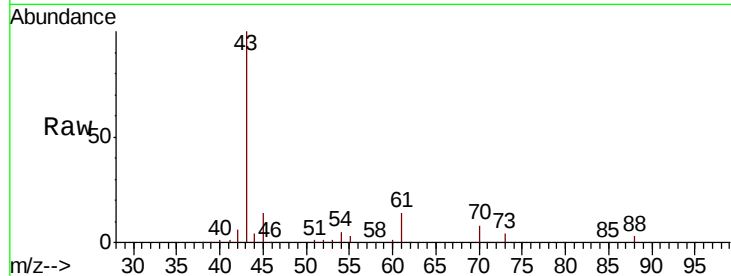
#37
Ethyl Acetate
Concen: 19.500 ug/l
RT: 4.38 min Scan# 998
Delta R.T. 0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Instrument :
MSVOA_U
ClientSampleId :
VU1113WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.2	10.3	15.5
70	4.3	7.0	10.6

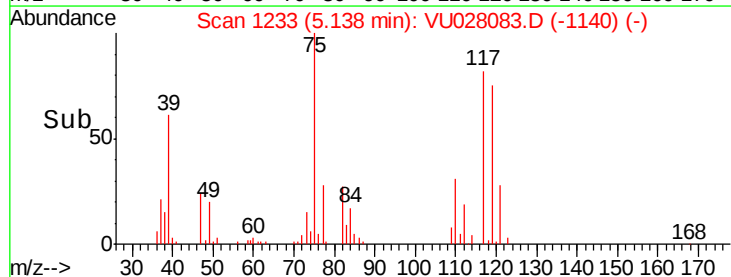
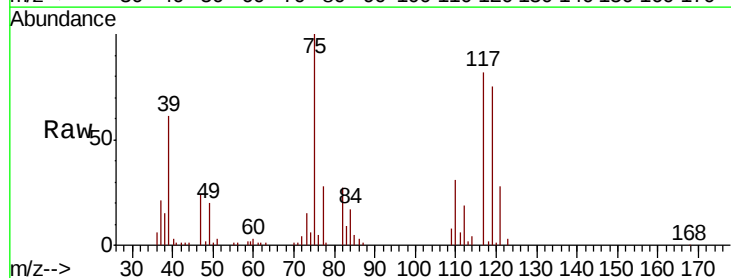
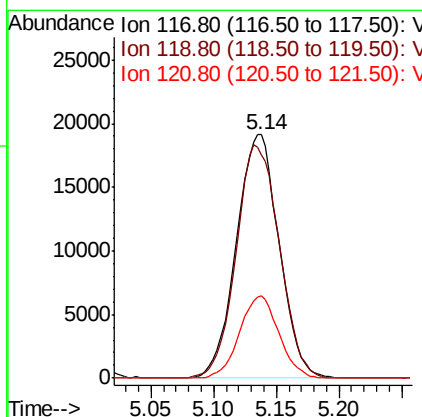
Manual Integrations
APPROVED

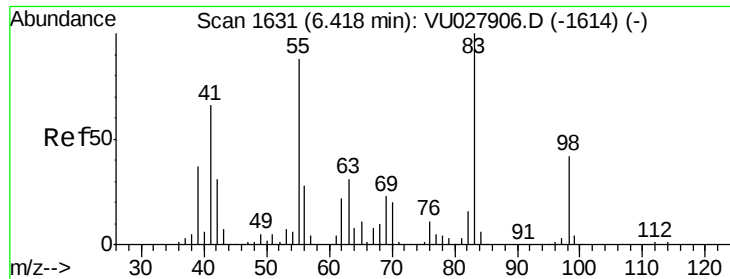
MMDadoda
11/14/2018 9:34:22 AM



#38
Carbon Tetrachloride
Concen: 19.143 ug/l
RT: 5.14 min Scan# 1233
Delta R.T. 0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Tgt Ion	Ratio	Lower	Upper
117	100		
119	91.8	76.0	114.0
121	33.7	24.5	36.7





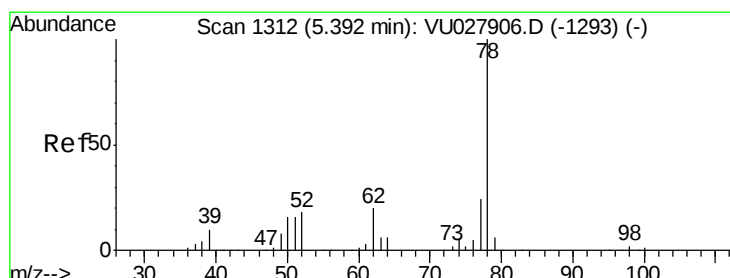
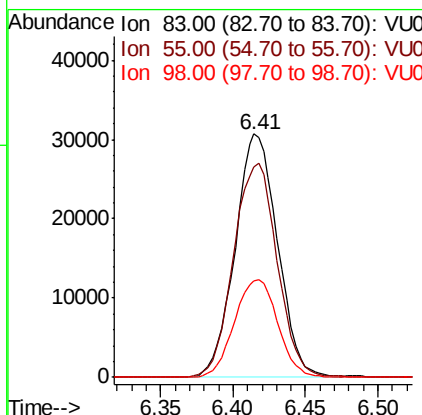
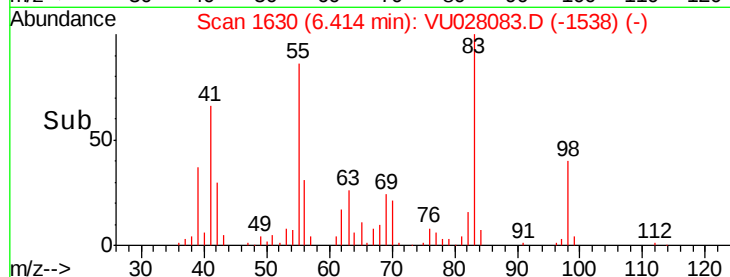
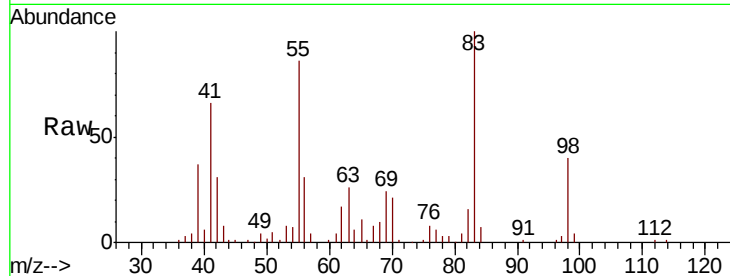
#39
Methylvlcyclohexane
Concen: 19.380 ug/l
RT: 6.41 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Instrument :
MSVOA_U
ClientSampleId :
VU1113WBS01

Tot Ion	83.00	Resp:	62440
Ion	Ratio	Lower	Upper
83	100		
55	86.4	70.3	105.5
98	39.7	34.0	51.0

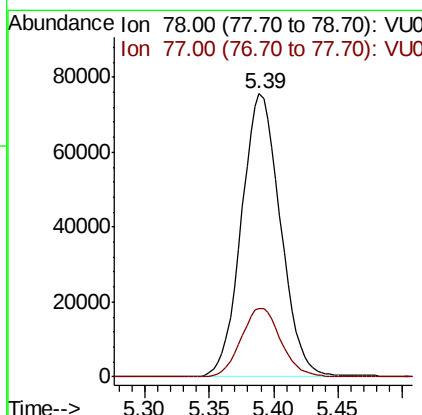
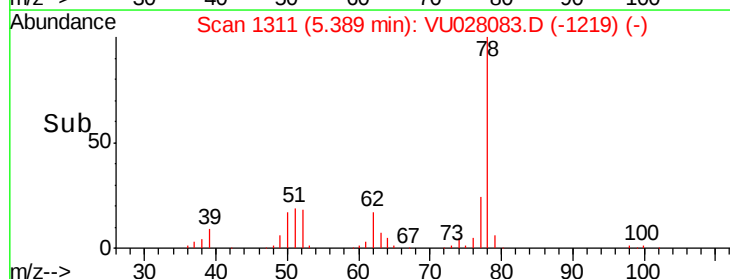
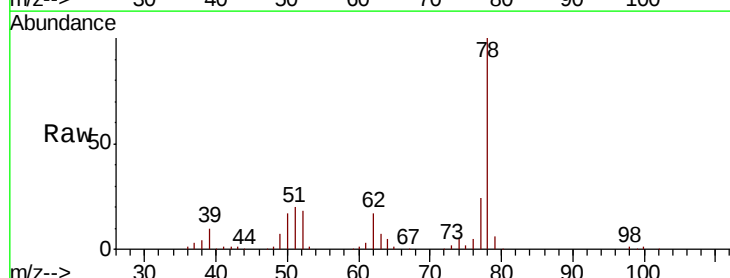
Manual Integrations
APPROVED

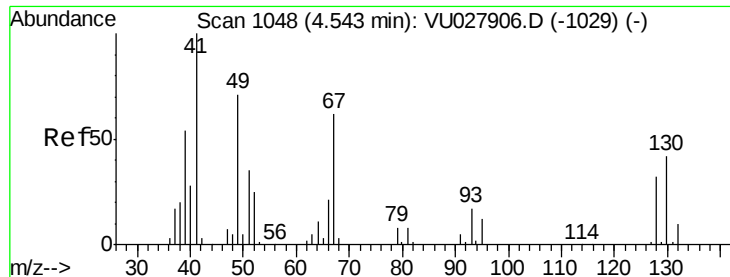
MMDadoda
11/14/2018 9:34:22 AM



#40
Benzene
Concen: 19.513 ug/l
RT: 5.39 min Scan# 1311
Delta R.T. -0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Tgt Ion	78	Resp:	159368
Ion	Ratio	Lower	Upper
78	100		
77	24.4	19.3	28.9





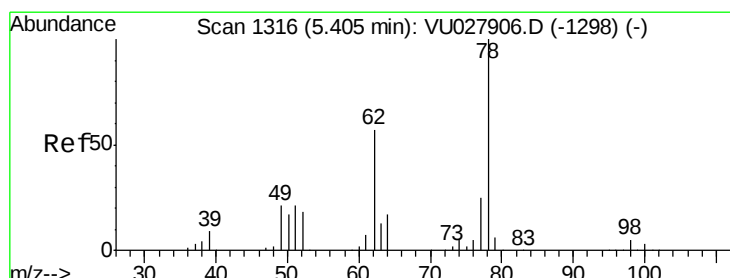
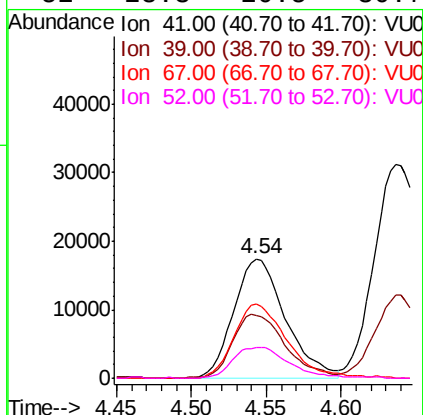
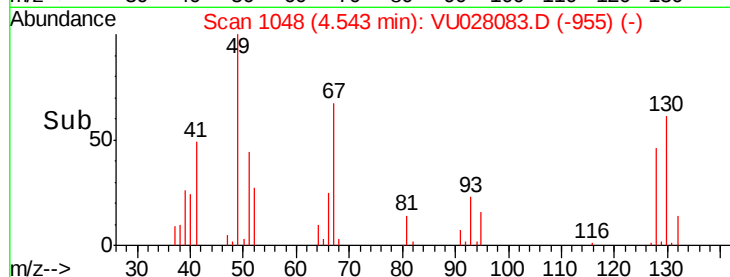
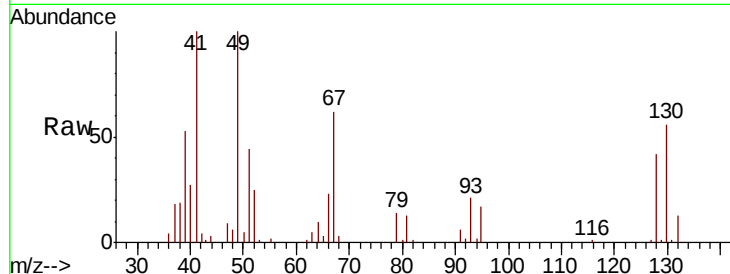
#41
Methacrylonitrile
Concen: 20.097 ug/l
RT: 4.54 min Scan# 1048
Delta R.T. 0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Instrument :
MSVOA_U
ClientSampleId :
VU1113WBS01

Tot Ion	Ion	Ratio	Lower	Upper
41	41	100		
39	39	55.1	42.2	63.4
67	67	63.1	49.5	74.3
52	52	28.3	20.5	30.7

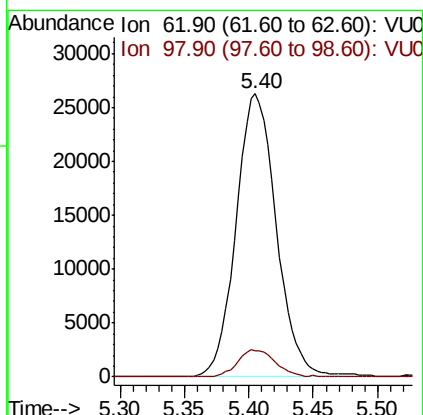
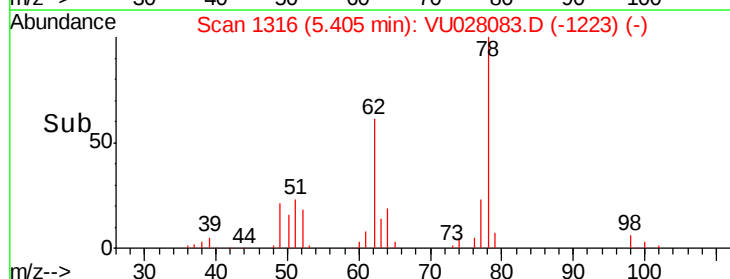
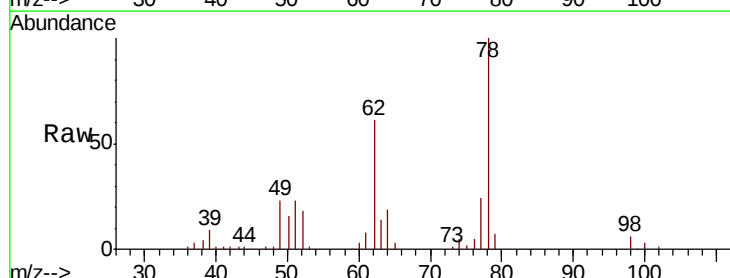
Manual Integrations
APPROVED

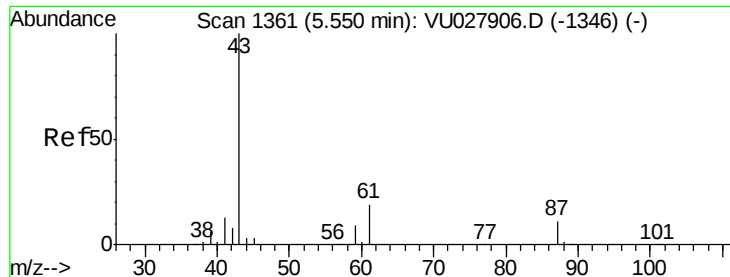
MMDadoda
11/14/2018 9:34:22 AM



#42
1,2-Dichloroethane
Concen: 19.637 ug/l
RT: 5.40 min Scan# 1316
Delta R.T. 0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Tgt Ion	Ion	Ratio	Lower	Upper
62	62	100		
98	98	8.9	0.0	17.2





#43

Isopropyl Acetate

Concen: 19.752 ug/l

RT: 5.55 min Scan# 1361

Delta R.T. 0.00 min

Lab File: VU028083.D

Acq: 13 Nov 2018 11:40

Instrument :

MSVOA_U

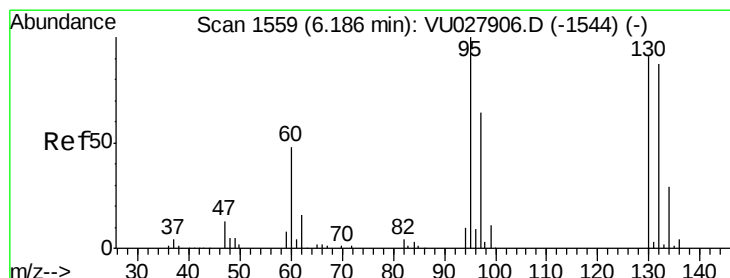
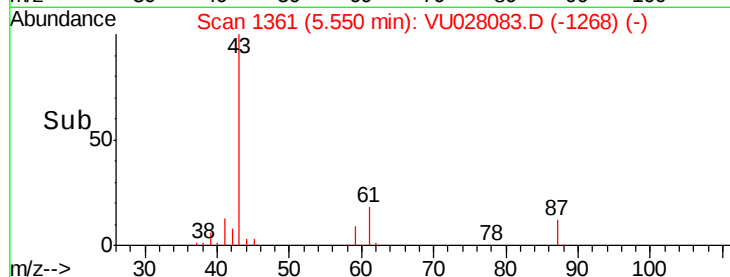
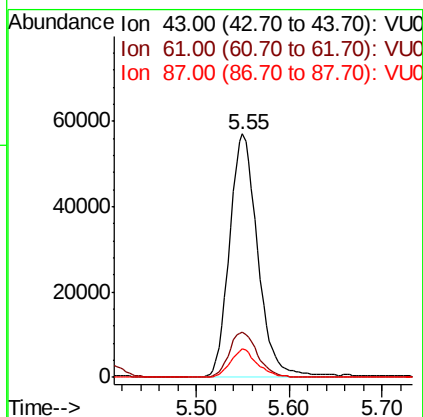
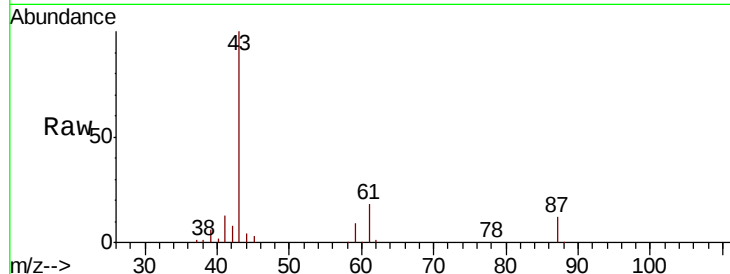
ClientSampleId :

VU1113WBS01

Tot Ion:	43	Resp:	121120
Ion	Ratio	Lower	Upper
43	100		
61	18.5	15.0	22.4
87	10.9	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
11/14/2018 9:34:22 AM



#44

Trichloroethene

Concen: 19.373 ug/l

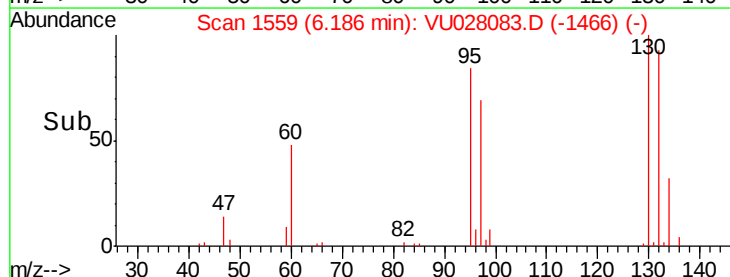
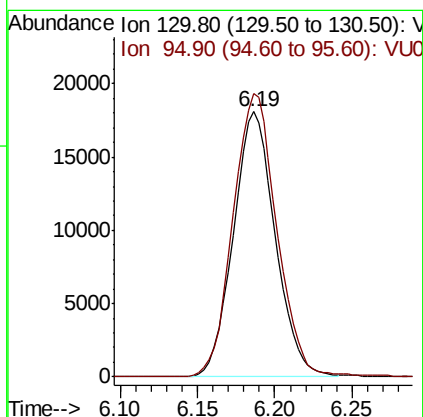
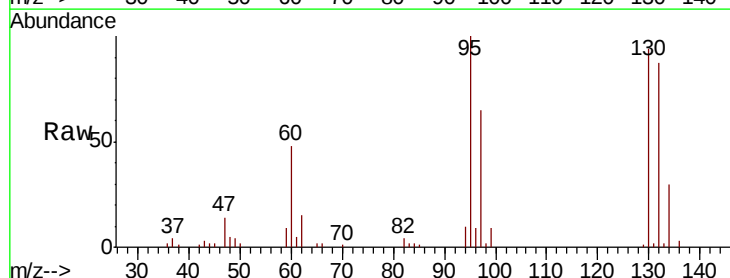
RT: 6.19 min Scan# 1559

Delta R.T. 0.00 min

Lab File: VU028083.D

Acq: 13 Nov 2018 11:40

Tgt Ion:	130	Resp:	34010
Ion	Ratio	Lower	Upper
130	100		
95	106.8	0.0	219.2





#45

1,2-Dichloropropane

Concen: 20.172 ug/l

RT: 6.43 min Scan# 1636

Delta R.T. 0.00 min

Lab File: VU028083.D

Acq: 13 Nov 2018 11:40

Instrument :

MSVOA_U

ClientSampleId :

VU1113WBS01

Tot Ion: 63 Resp: 47513

Ion Ratio Lower Upper

63 100

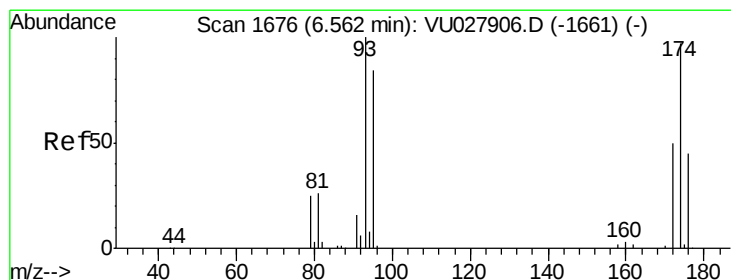
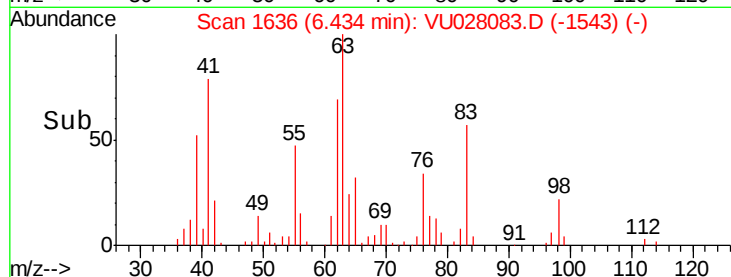
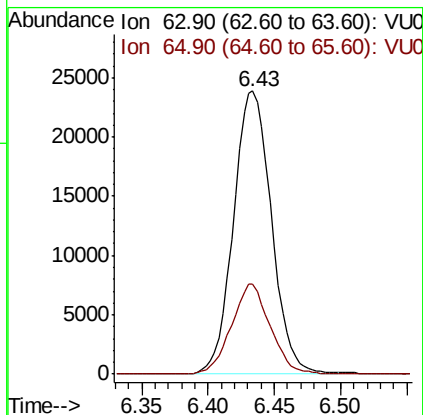
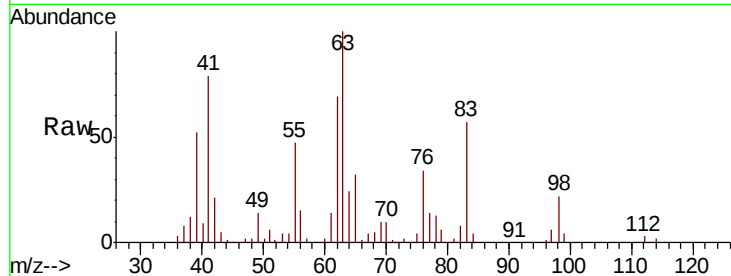
65 32.0 24.4 36.6

Manual Integrations

APPROVED

MMDadoda

11/14/2018 9:34:22 AM



#46

Dibromomethane

Concen: 19.756 ug/l

RT: 6.56 min Scan# 1675

Delta R.T. -0.00 min

Lab File: VU028083.D

Acq: 13 Nov 2018 11:40

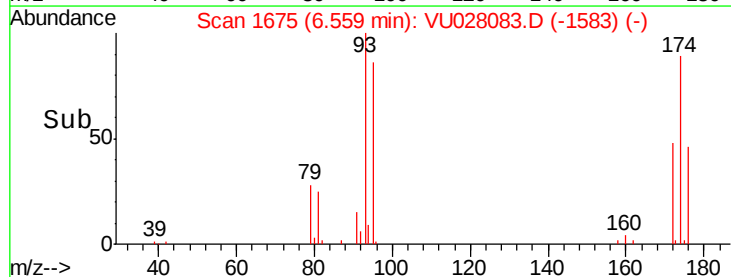
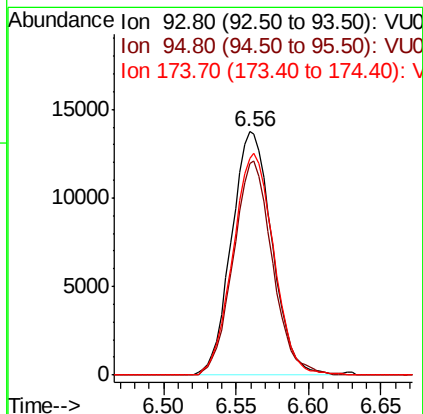
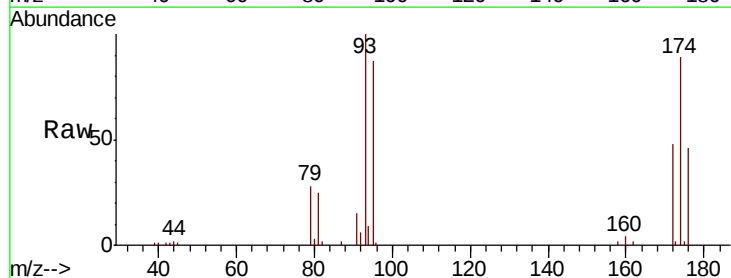
Tgt Ion: 93 Resp: 26747

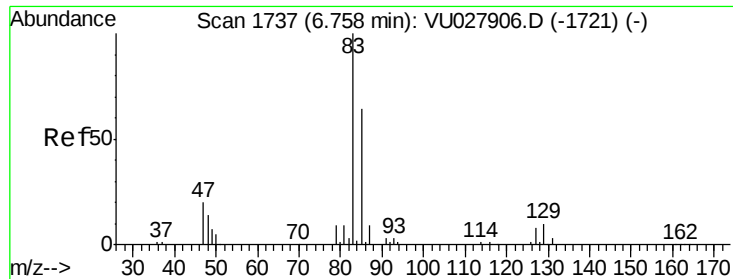
Ion Ratio Lower Upper

93 100

95 84.6 68.5 102.7

174 91.4 76.1 114.1





#47

Bromodichloromethane

Concen: 20.320 ug/l

RT: 6.76 min Scan# 1737

Delta R.T. 0.00 min

Lab File: VU028083.D

Acq: 13 Nov 2018 11:40

Instrument :

MSVOA_U

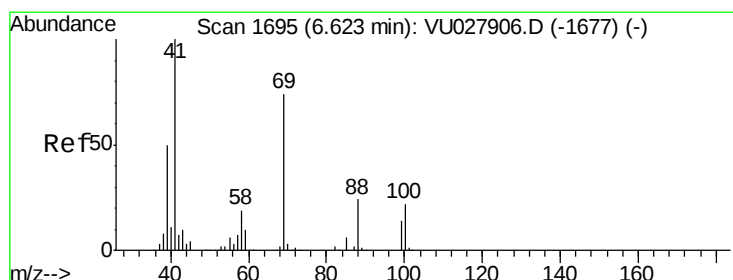
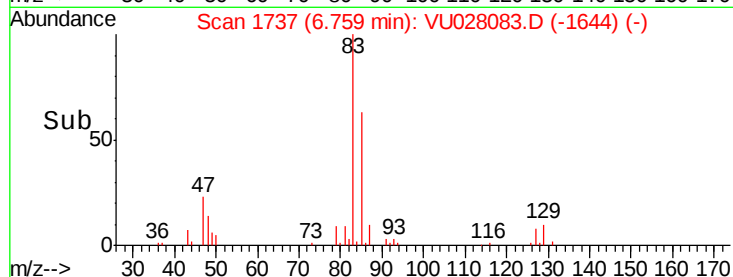
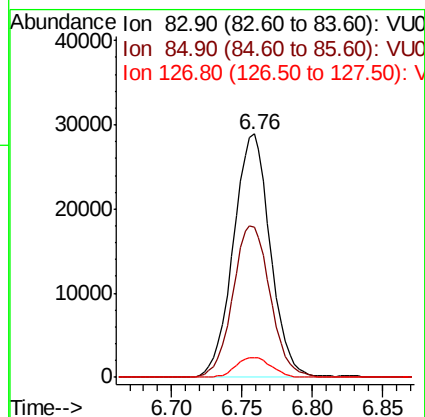
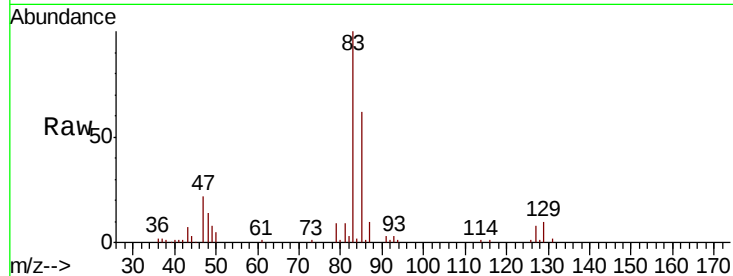
ClientSampleId :

VU1113WBS01

Tot Ion:	83	Resp:	53016
Ion Ratio	Lower	Upper	
83	100		
85	61.6	51.0	76.6
127	8.2	6.2	9.4

Manual Integrations
APPROVED

MMDadoda
11/14/2018 9:34:22 AM



#48

Methyl methacrylate

Concen: 20.065 ug/l

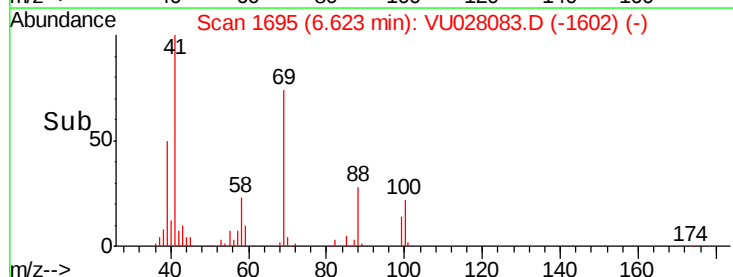
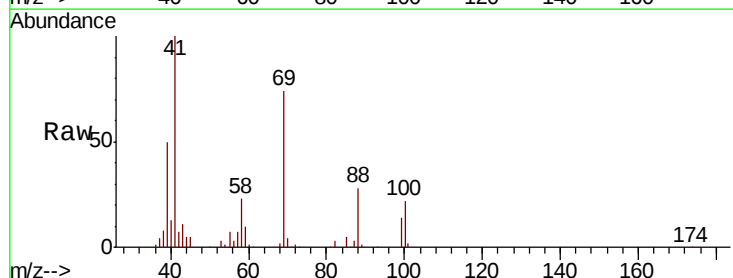
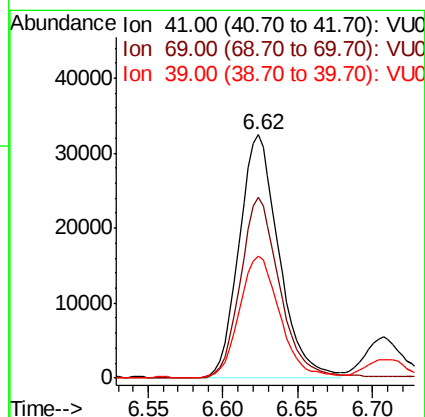
RT: 6.62 min Scan# 1695

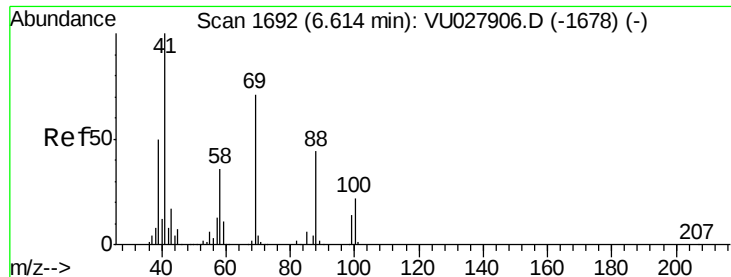
Delta R.T. 0.00 min

Lab File: VU028083.D

Acq: 13 Nov 2018 11:40

Tgt Ion:	41	Resp:	60294
Ion Ratio	Lower	Upper	
41	100		
69	73.0	59.8	89.8
39	51.0	40.0	60.0





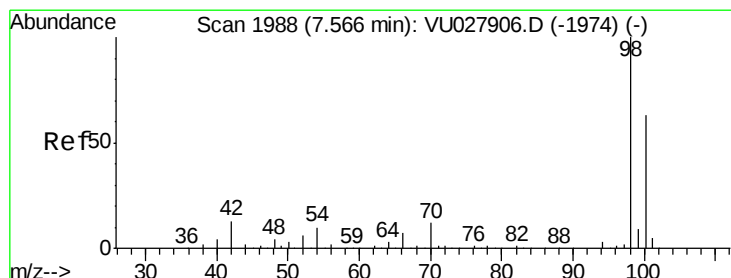
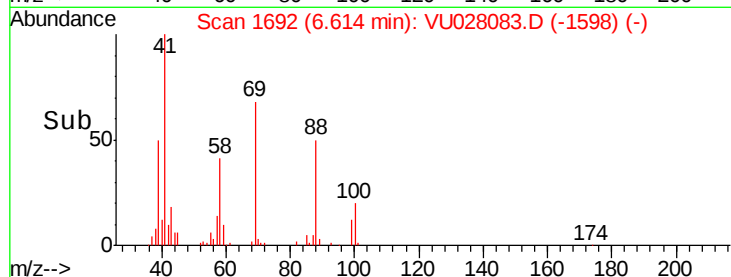
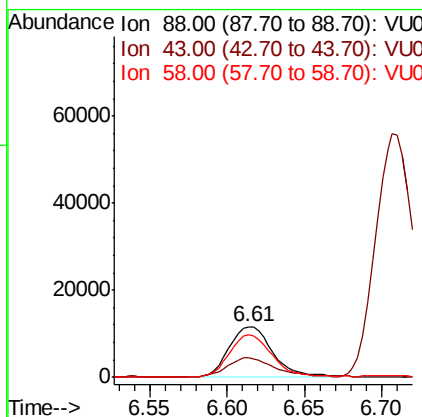
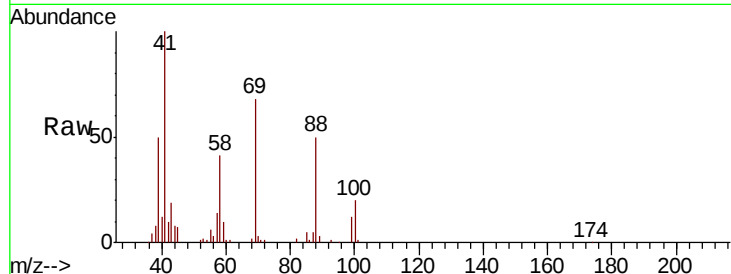
#49
1,4-Dioxane
Concen: 468.503 ug/l
RT: 6.61 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Instrument :
MSVOA_U
ClientSampleId :
VU1113WBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	39.4	30.5	45.7
58	81.3	67.1	100.7

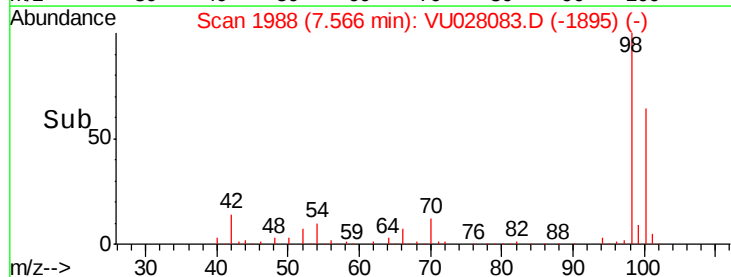
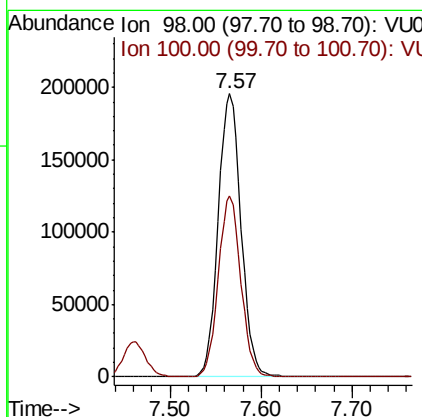
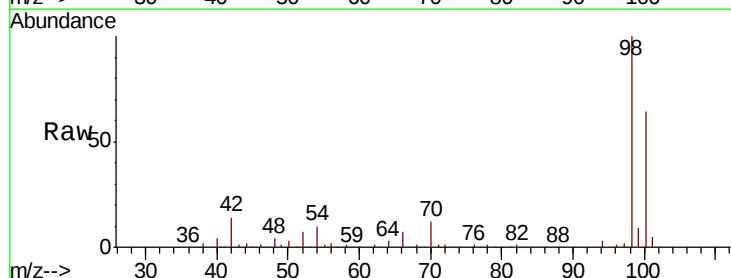
Manual Integrations
APPROVED

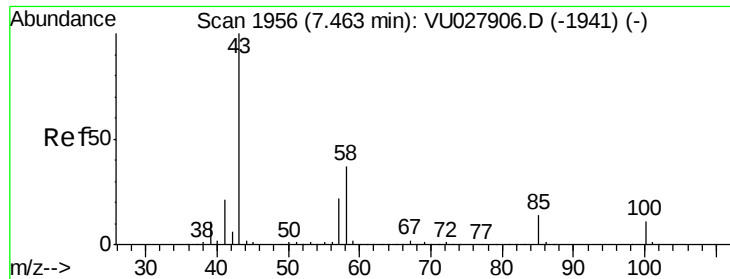
MMDadoda
11/14/2018 9:34:22 AM



#50
Toluene-d8
Concen: 54.935 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Tgt Ion	Ratio	Lower	Upper
98	100		
100	62.6	50.1	75.1





#51

4-Methyl-2-Pentanone

Concen: 98.240 ug/l

RT: 7.46 min Scan# 1955

Delta R.T. -0.00 min

Lab File: VU028083.D

Acq: 13 Nov 2018 11:40

Instrument :

MSVOA_U

ClientSampleId :

VU1113WBS01

Tot Ion: 43 Resp: 402314

Ion Ratio Lower Upper

43 100

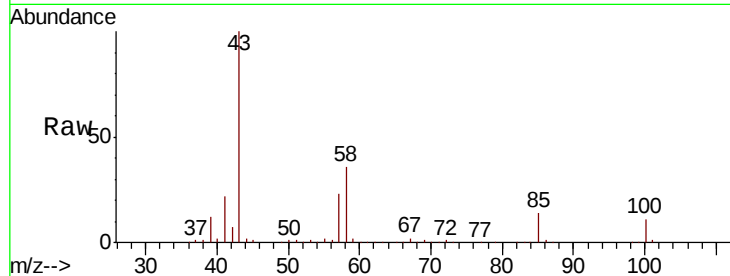
58 36.4 29.5 44.3

Manual Integrations

APPROVED

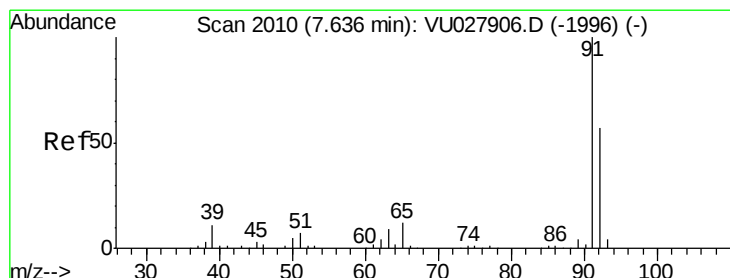
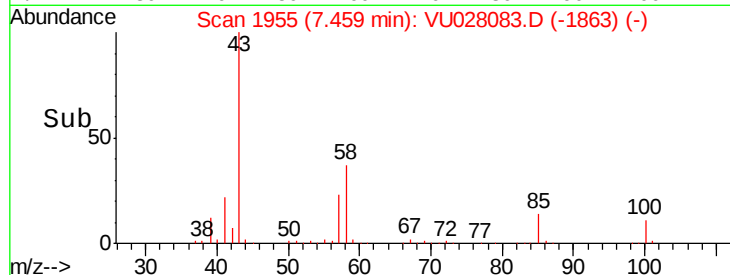
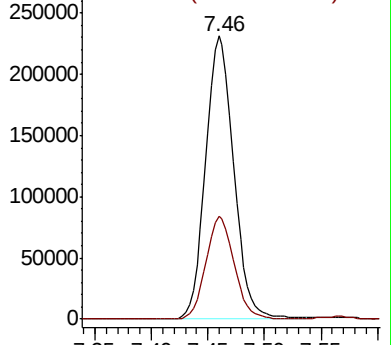
MMDadoda

11/14/2018 9:34:22 AM



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#52

Toluene

Concen: 19.398 ug/l

RT: 7.64 min Scan# 2010

Delta R.T. 0.00 min

Lab File: VU028083.D

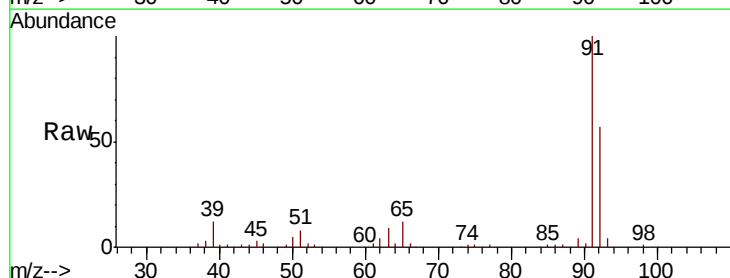
Acq: 13 Nov 2018 11:40

Tgt Ion: 92 Resp: 93136

Ion Ratio Lower Upper

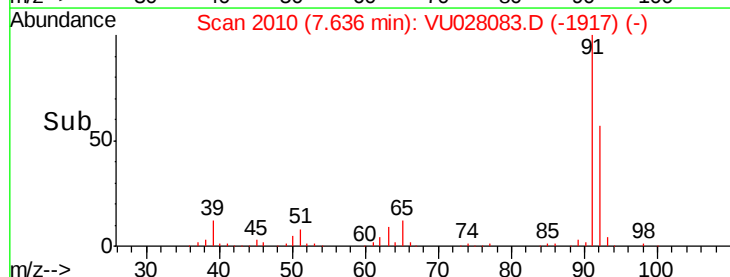
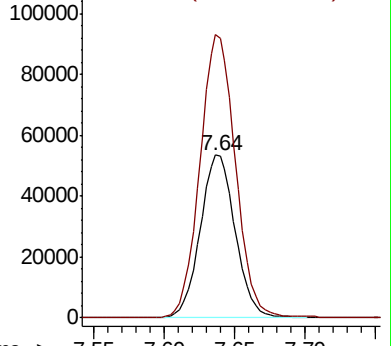
92 100

91 176.5 141.2 211.8



Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0





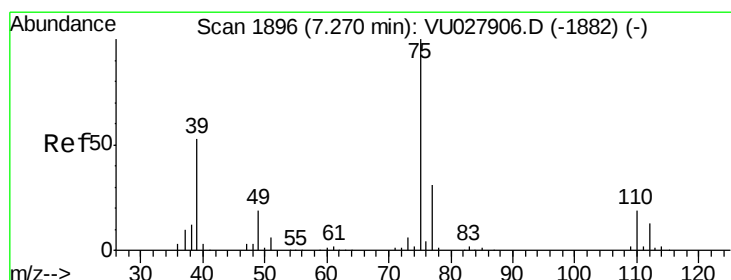
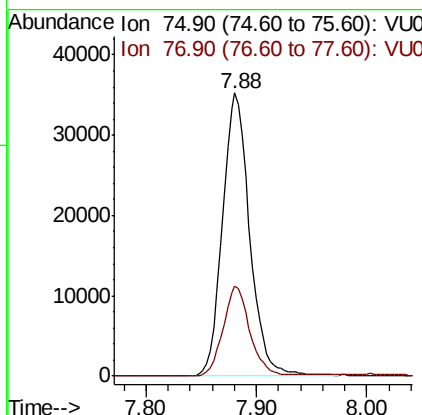
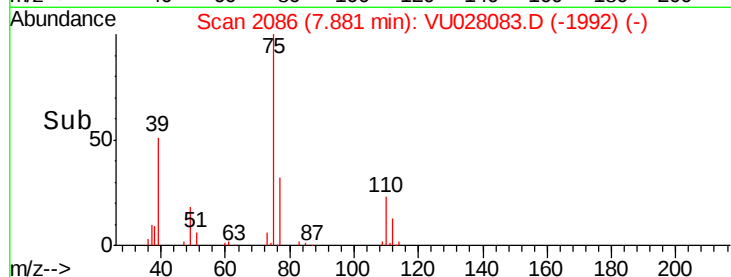
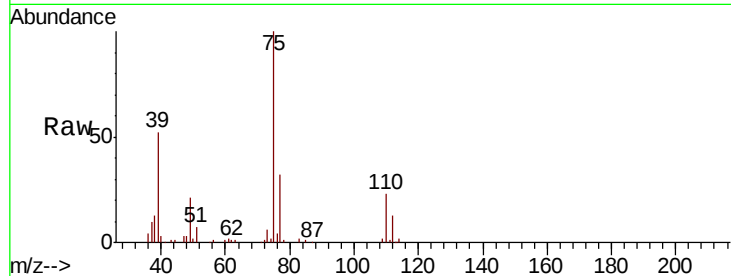
#53
t-1,3-Dichloropropene
Concen: 19.368 ug/l
RT: 7.88 min Scan# 2086
Delta R.T. 0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Instrument :
MSVOA_U
ClientSampleId :
VU1113WBS01

Tot Ion: 75 Resp: 60398
Ion Ratio Lower Upper
75 100
77 31.8 25.1 37.7

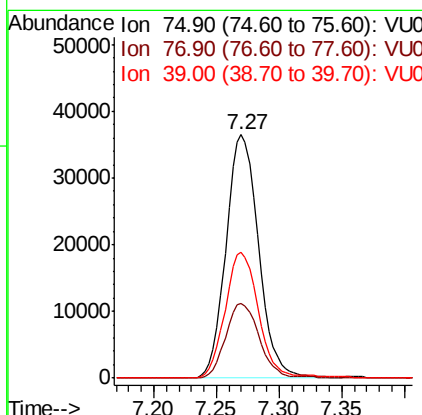
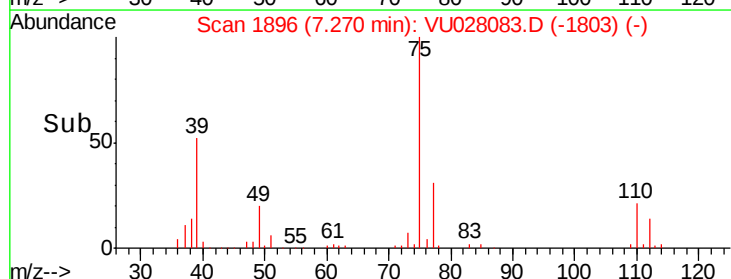
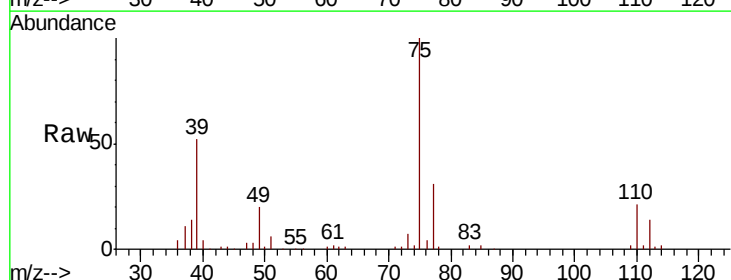
Manual Integrations
APPROVED

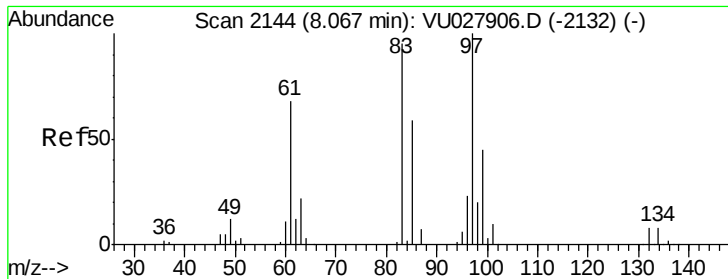
MMDadoda
11/14/2018 9:34:22 AM



#54
cis-1,3-Dichloropropene
Concen: 20.439 ug/l
RT: 7.27 min Scan# 1896
Delta R.T. 0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Tgt Ion: 75 Resp: 65739
Ion Ratio Lower Upper
75 100
77 30.6 24.6 37.0
39 51.8 42.6 64.0





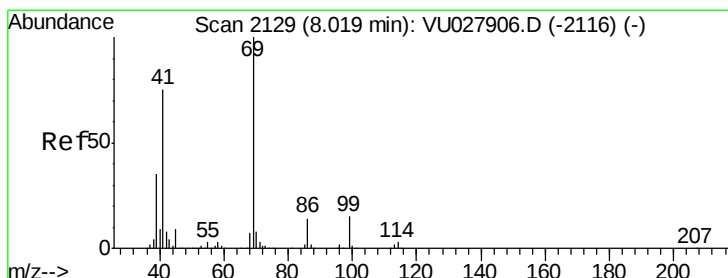
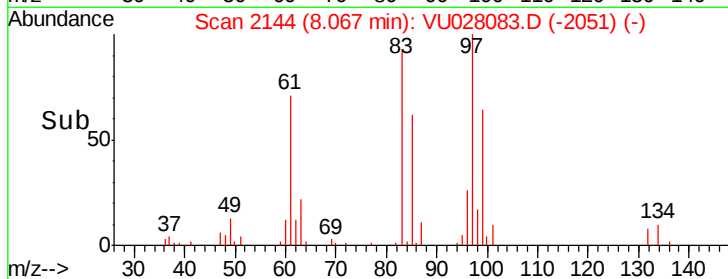
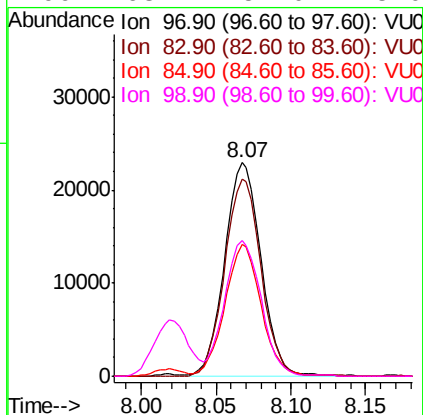
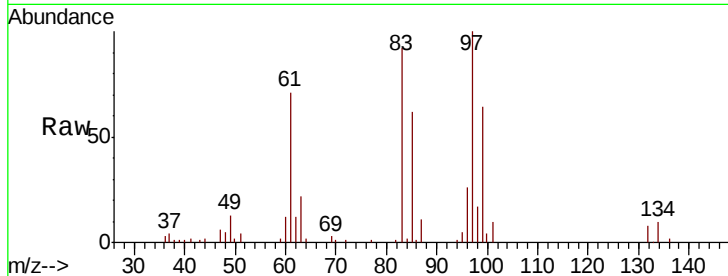
#55
 1,1,2-Trichloroethane
 Concen: 19.865 ug/l
 RT: 8.07 min Scan# 2144
 Delta R.T. 0.00 min
 Lab File: VU028083.D
 Acq: 13 Nov 2018 11:40

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1113WBS01

Tot Ion:	97	Resp:	38805
Ion	Ratio	Lower	Upper
97	100		
83	92.2	76.1	114.1
85	61.9	48.9	73.3
99	63.7	52.0	78.0

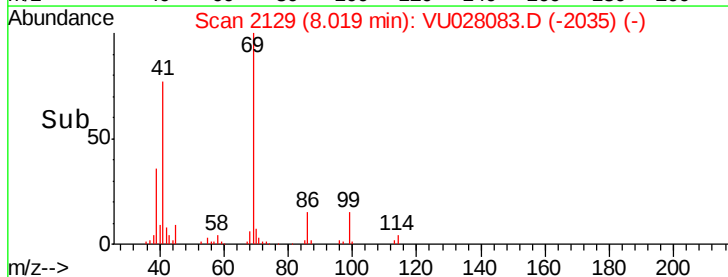
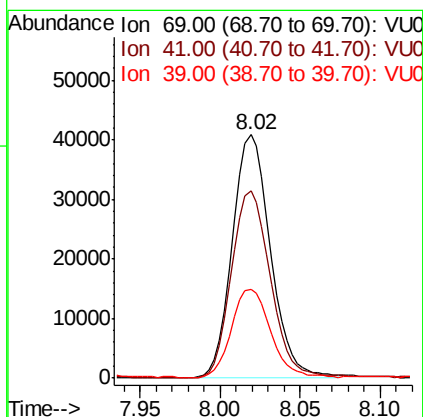
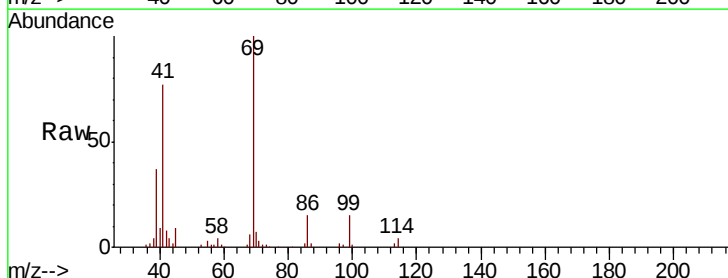
Manual Integrations
 APPROVED

MMDadoda
 11/14/2018 9:34:22 AM



#56
 Ethyl methacrylate
 Concen: 19.299 ug/l
 RT: 8.02 min Scan# 2129
 Delta R.T. 0.00 min
 Lab File: VU028083.D
 Acq: 13 Nov 2018 11:40

Tgt Ion:	69	Resp:	66483
Ion	Ratio	Lower	Upper
69	100		
41	79.1	59.8	89.6
39	36.8	28.6	42.8





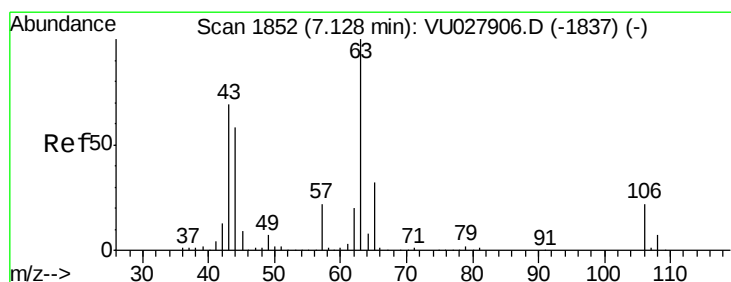
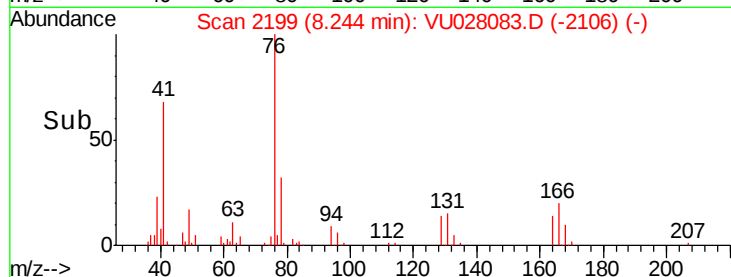
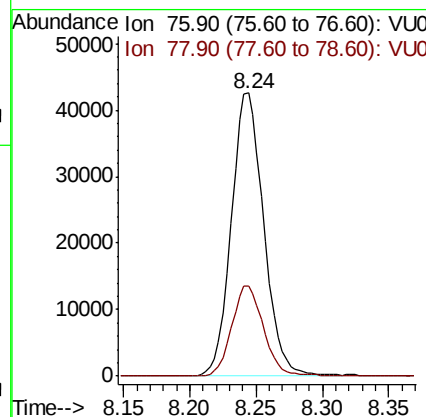
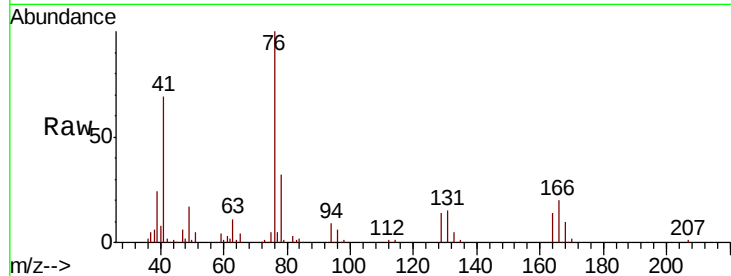
#57
 1,3-Dichloropropane
 Concen: 20.317 ug/l
 RT: 8.24 min Scan# 2199
 Delta R.T. 0.00 min
 Lab File: VU028083.D
 Acq: 13 Nov 2018 11:40

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1113WBS01

Tot Ion: 76 Resp: 72293
 Ion Ratio Lower Upper
 76 100
 78 31.2 25.3 37.9

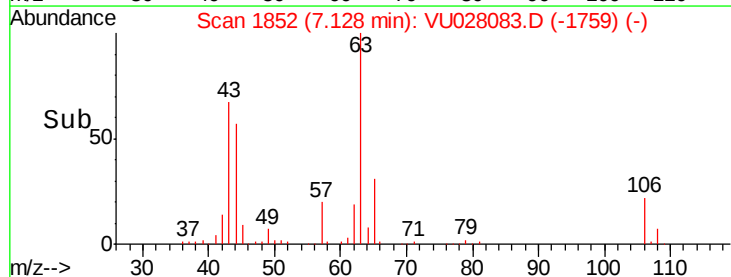
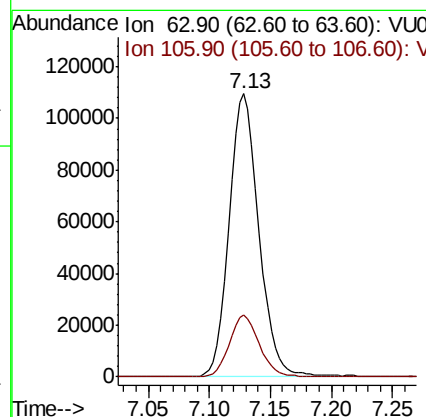
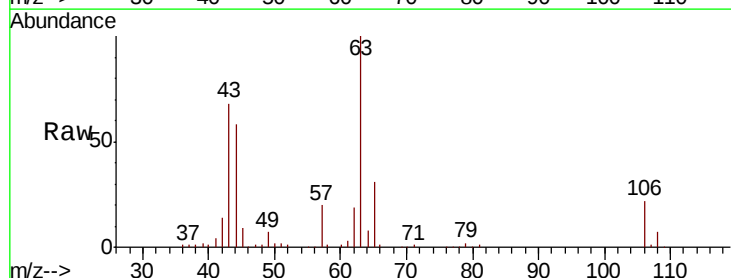
Manual Integrations
 APPROVED

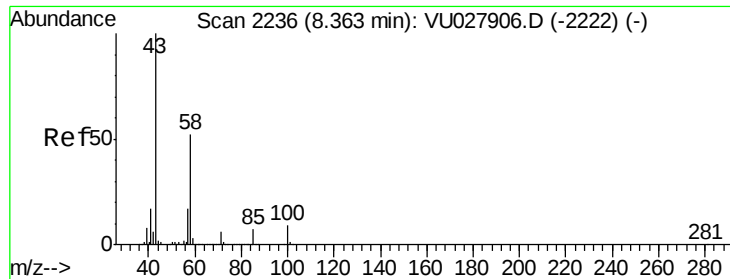
MMDadoda
 11/14/2018 9:34:22 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 101.378 ug/l
 RT: 7.13 min Scan# 1852
 Delta R.T. 0.00 min
 Lab File: VU028083.D
 Acq: 13 Nov 2018 11:40

Tgt Ion: 63 Resp: 187039
 Ion Ratio Lower Upper
 63 100
 106 21.9 17.8 26.6





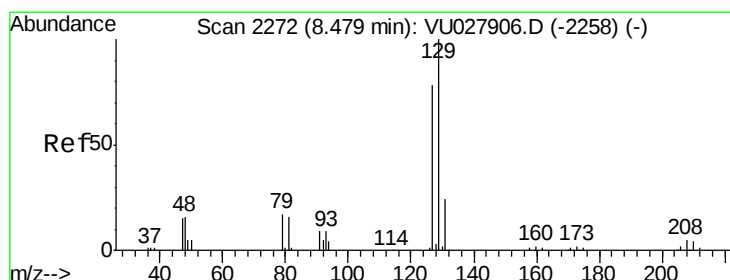
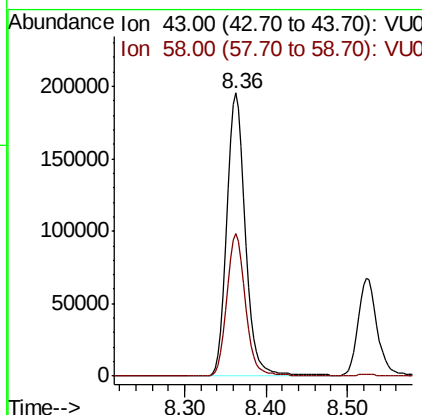
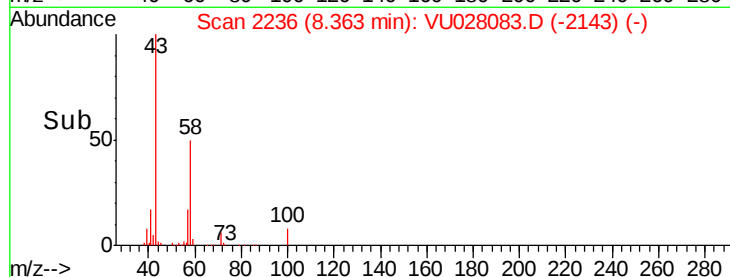
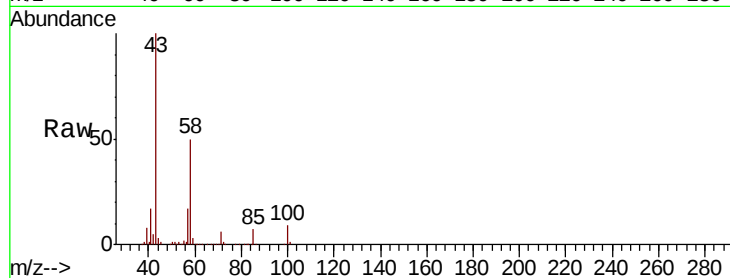
#59
2-Hexanone
Concen: 100.296 ug/l
RT: 8.36 min Scan# 2236
Delta R.T. 0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Instrument :
MSVOA_U
ClientSampleId :
VU1113WBS01

Tot Ion: 43 Resp: 317675
Ion Ratio Lower Upper
43 100
58 50.3 25.8 77.3

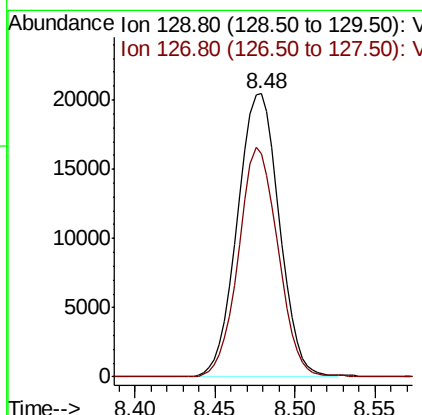
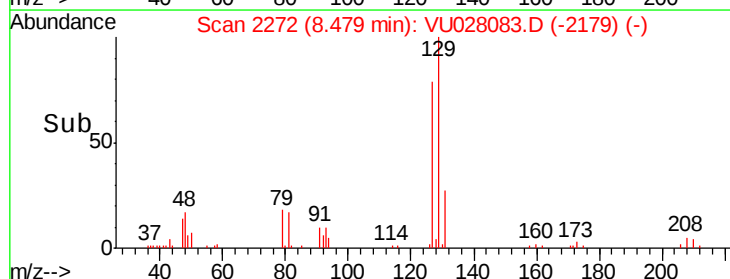
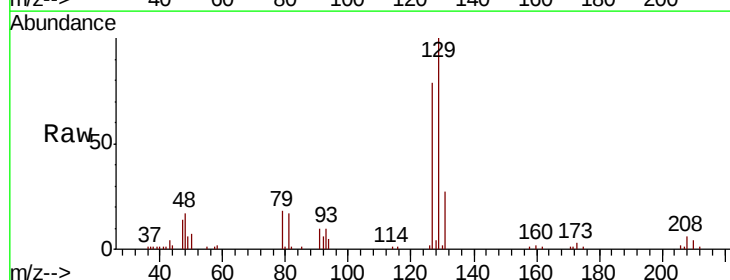
Manual Integrations
APPROVED

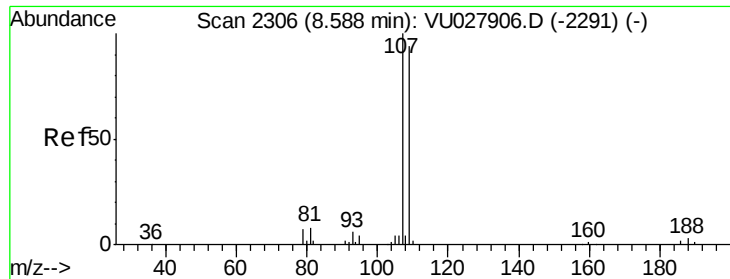
MMDadoda
11/14/2018 9:34:22 AM



#60
Dibromochloromethane
Concen: 19.807 ug/l
RT: 8.48 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Tgt Ion: 129 Resp: 36612
Ion Ratio Lower Upper
129 100
127 76.1 39.2 117.6





#61

1,2-Dibromoethane

Concen: 19.381 ug/l

RT: 8.59 min Scan# 2306

Delta R.T. 0.00 min

Lab File: VU028083.D

Acq: 13 Nov 2018 11:40

Instrument :

MSVOA_U

ClientSampleId :

VU1113WBS01

Tot Ion:107 Resp: 40229

Ion Ratio Lower Upper

107 100

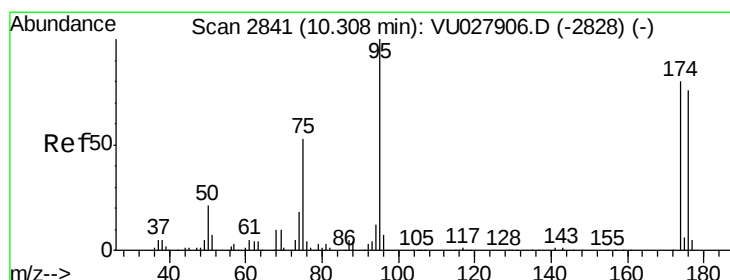
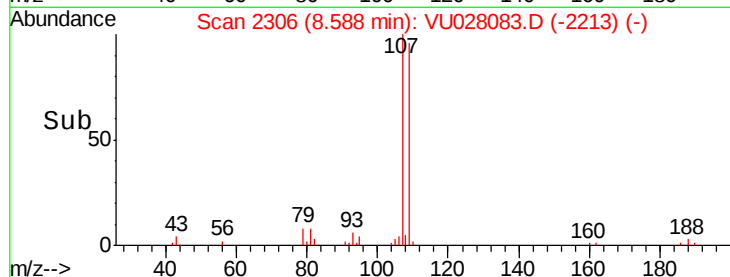
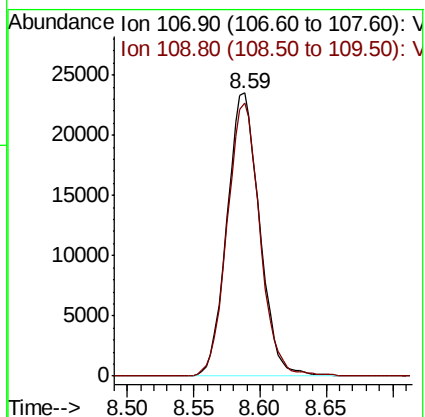
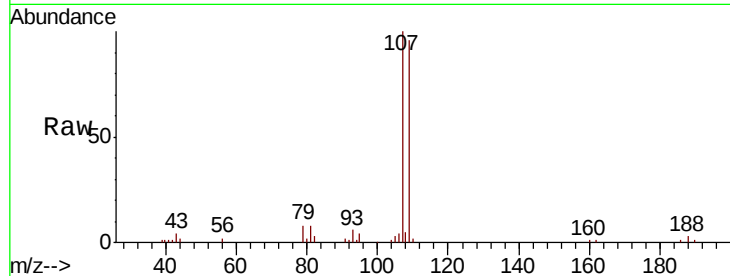
109 96.7 73.8 110.8

Manual Integrations

APPROVED

MMDadoda

11/14/2018 9:34:22 AM



#62

4-Bromofluorobenzene

Concen: 52.457 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VU028083.D

Acq: 13 Nov 2018 11:40

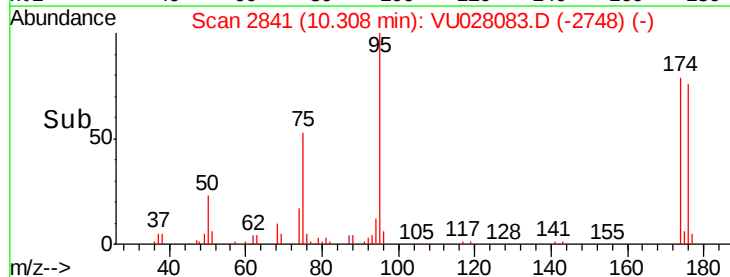
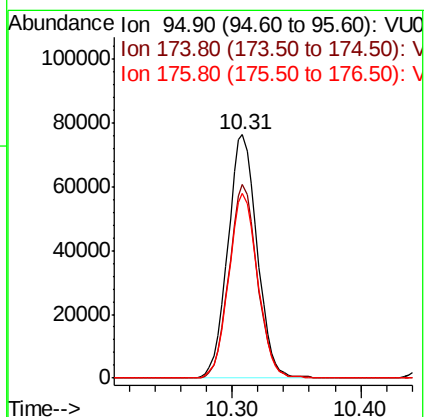
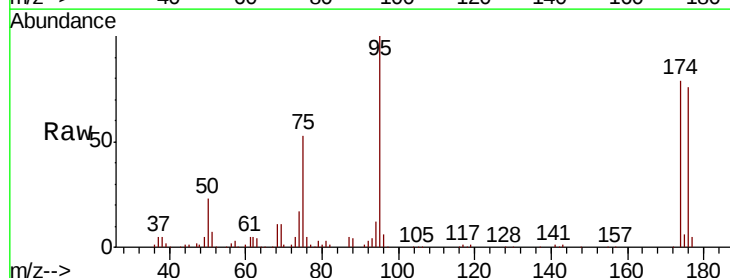
Tgt Ion: 95 Resp: 120196

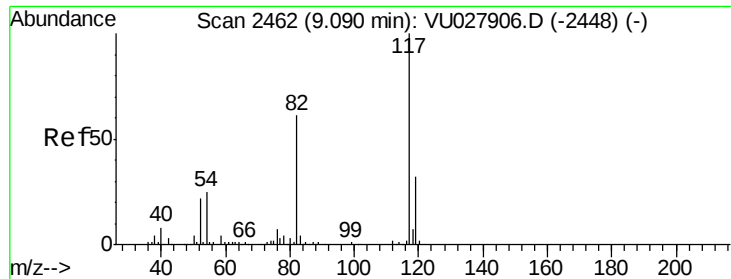
Ion Ratio Lower Upper

95 100

174 77.1 0.0 156.4

176 74.9 0.0 150.8





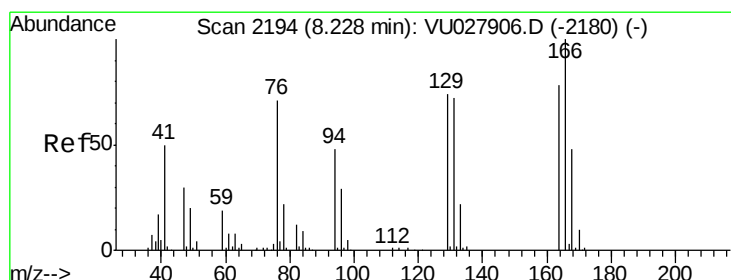
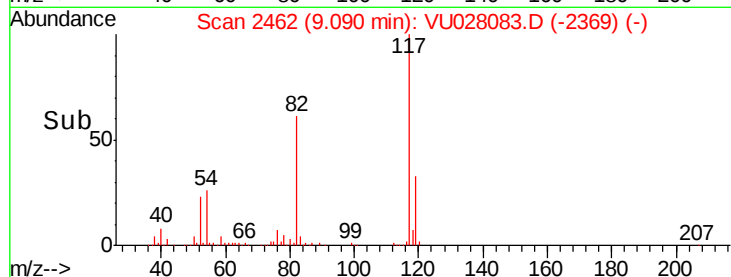
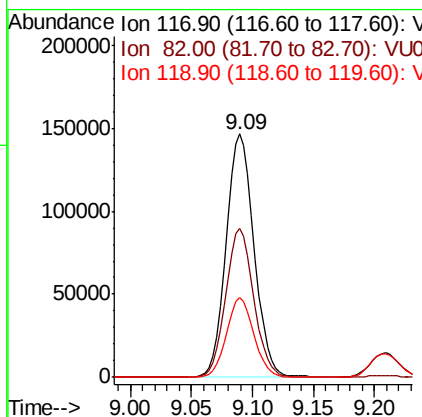
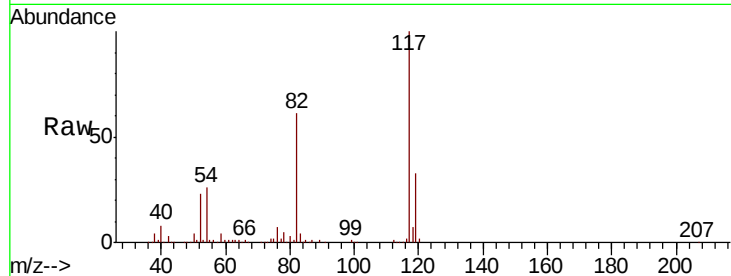
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. 0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Instrument :
MSVOA_U
ClientSampleId :
VU1113WBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	235795		
82	61.4	48.6	73.0	
119	32.9	25.8	38.8	

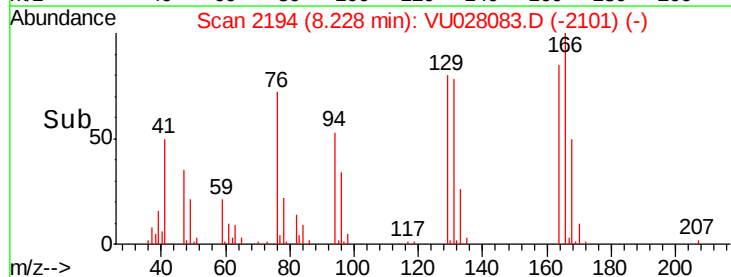
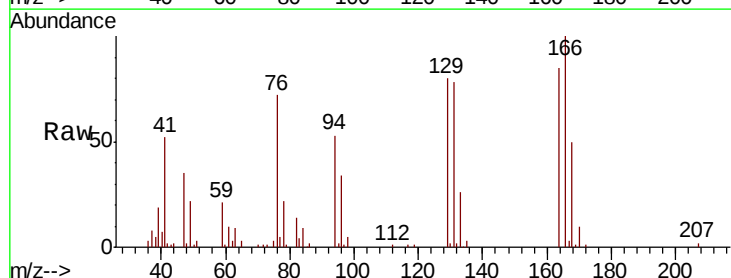
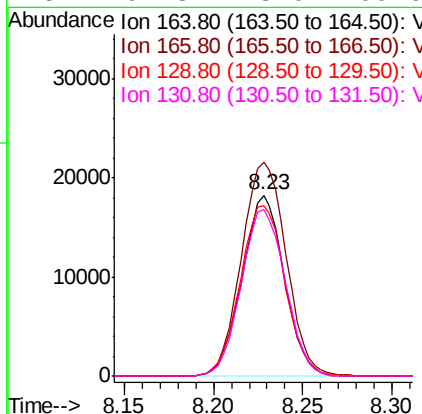
Manual Integrations
APPROVED

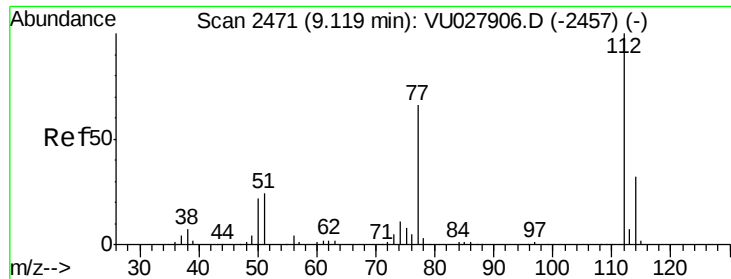
MMDadoda
11/14/2018 9:34:22 AM



#64
Tetrachloroethene
Concen: 19.626 ug/l
RT: 8.23 min Scan# 2194
Delta R.T. 0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	30007		
166	118.2	102.1	153.1	
129	94.2	75.9	113.9	
131	92.3	73.0	109.6	





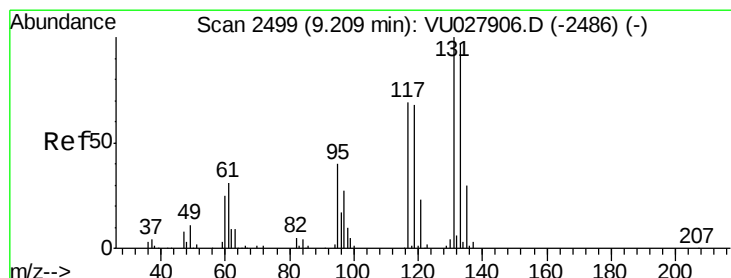
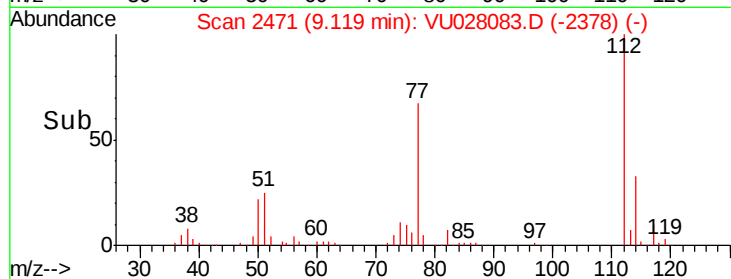
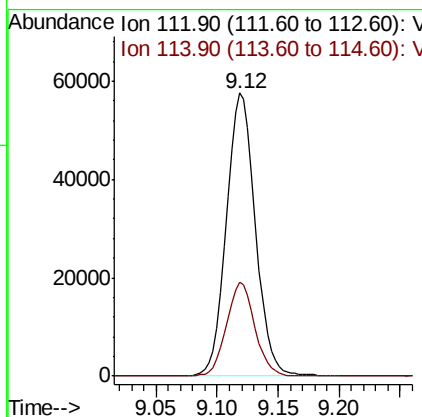
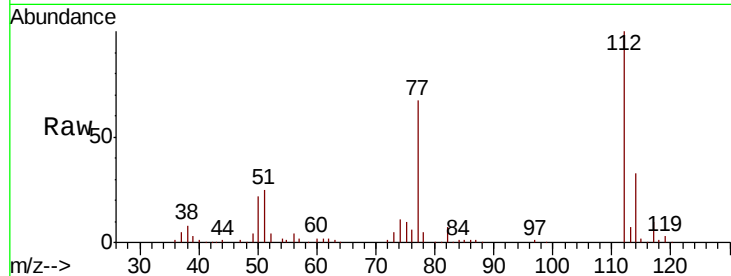
#65
Chlorobenzene
Concen: 19.271 ug/l
RT: 9.12 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Instrument :
MSVOA_U
ClientSampleId :
VU1113WBS01

Tot Ion:112 Resp: 96001
Ion Ratio Lower Upper
112 100
114 33.1 25.2 37.8

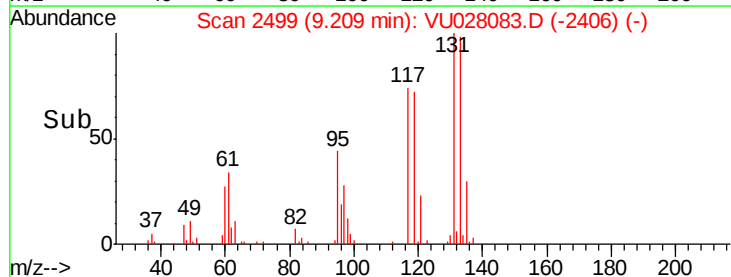
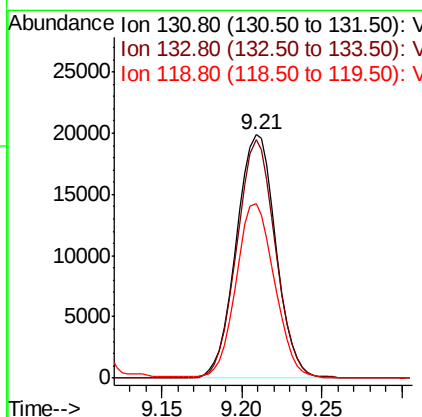
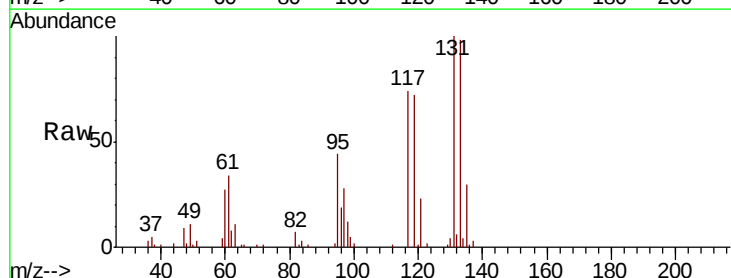
Manual Integrations
APPROVED

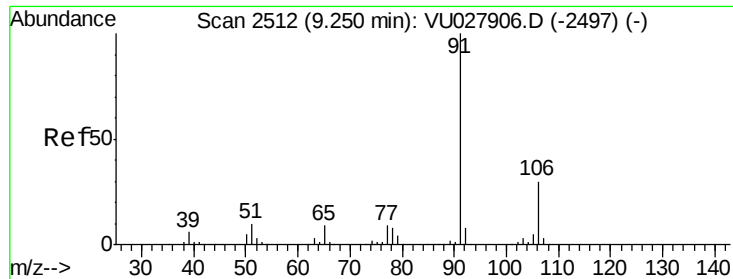
MMDadoda
11/14/2018 9:34:22 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.660 ug/l
RT: 9.21 min Scan# 2499
Delta R.T. 0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Tgt Ion:131 Resp: 33454
Ion Ratio Lower Upper
131 100
133 95.5 48.1 144.4
119 69.9 34.0 101.8





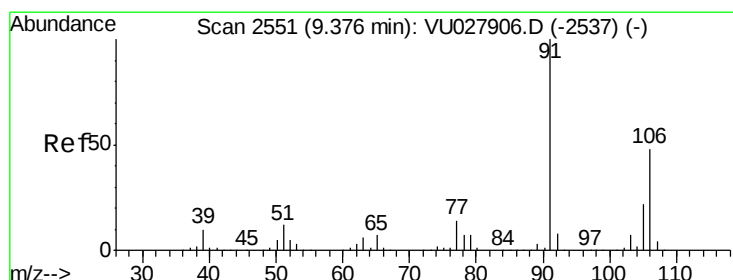
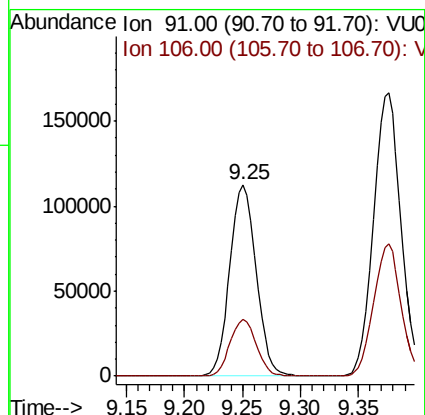
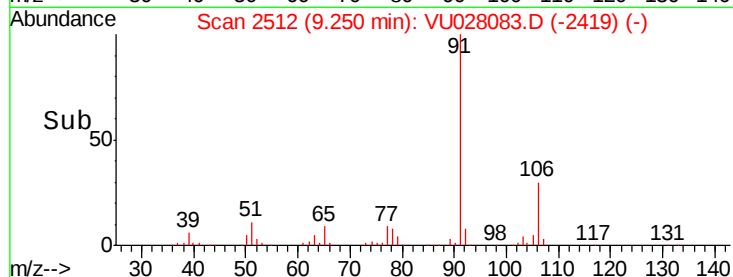
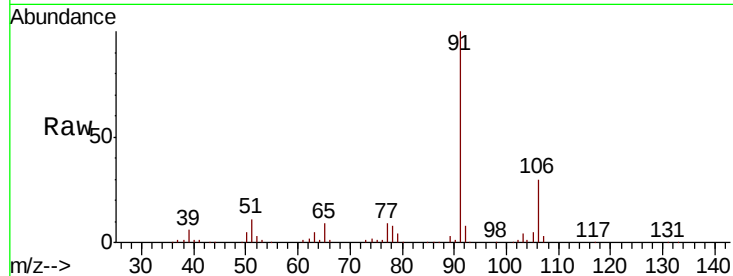
#67
Ethyl Benzene
Concen: 19.454 ug/l
RT: 9.25 min Scan# 2512
Delta R.T. 0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Instrument :
MSVOA_U
ClientSampleId :
VU1113WBS01

Tot Ion: 91 Resp: 178389
Ion Ratio Lower Upper
91 100
106 29.6 23.6 35.4

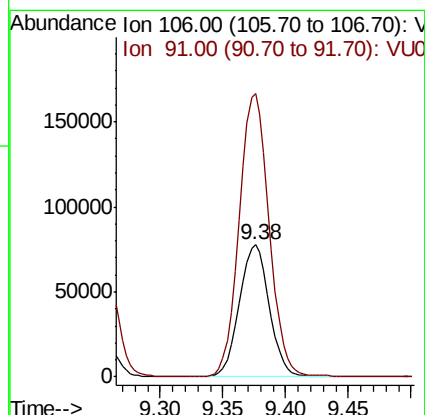
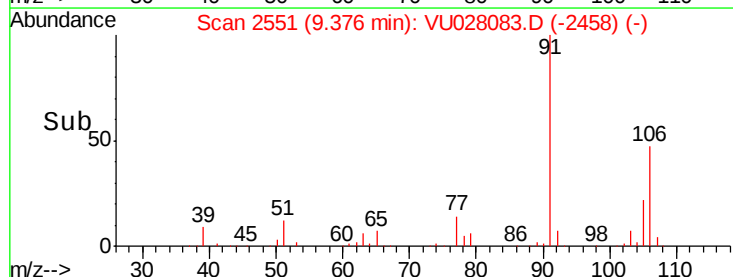
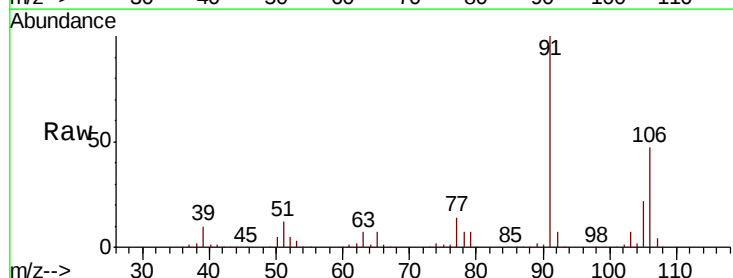
Manual Integrations
APPROVED

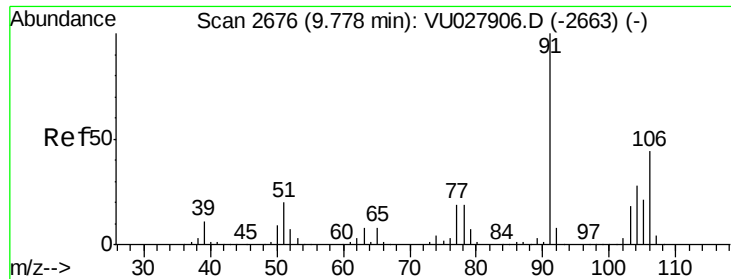
MMDadoda
11/14/2018 9:34:22 AM



#68
m/p-Xylenes
Concen: 38.825 ug/l
RT: 9.38 min Scan# 2551
Delta R.T. 0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Tgt Ion: 106 Resp: 129178
Ion Ratio Lower Upper
106 100
91 213.6 168.2 252.4





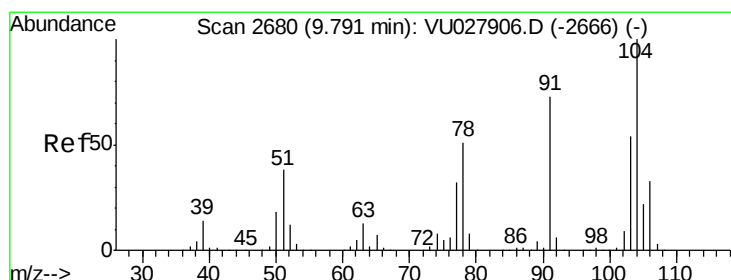
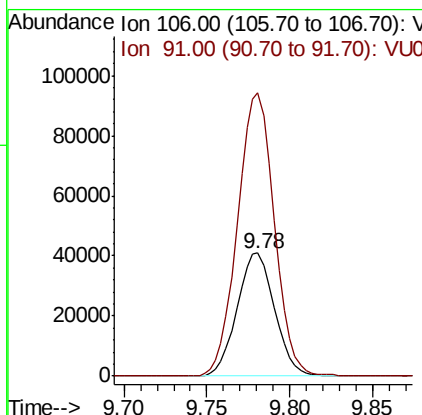
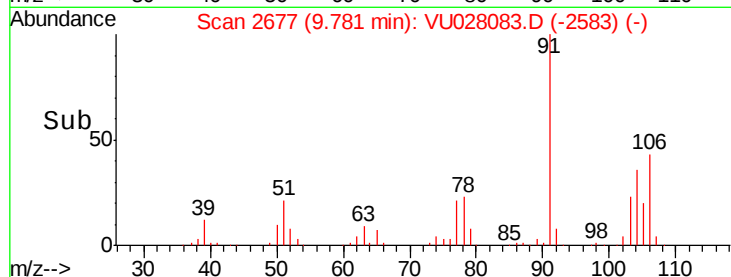
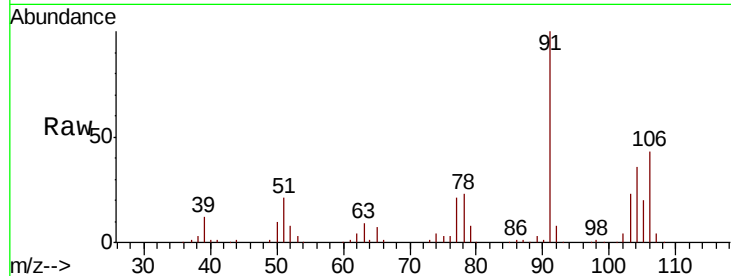
#69
o-Xylene
Concen: 19.189 ug/l
RT: 9.78 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Instrument :
MSVOA_U
ClientSampled :
VU1113WBS01

Tot Ion:106 Resp: 64470
Ion Ratio Lower Upper
106 100
91 225.8 111.1 333.4

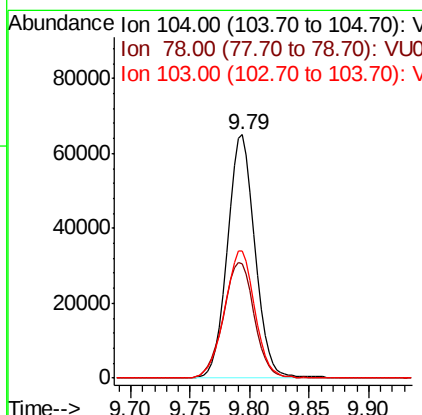
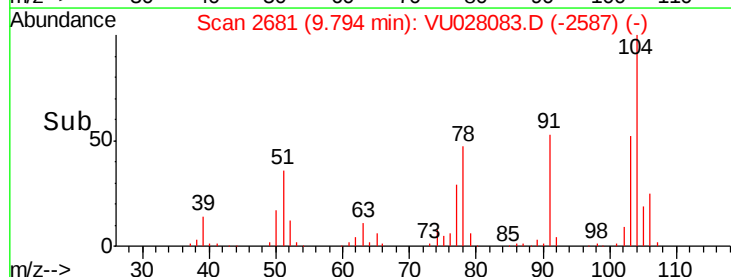
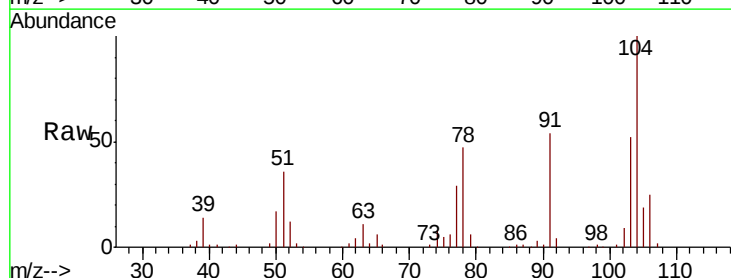
Manual Integrations
APPROVED

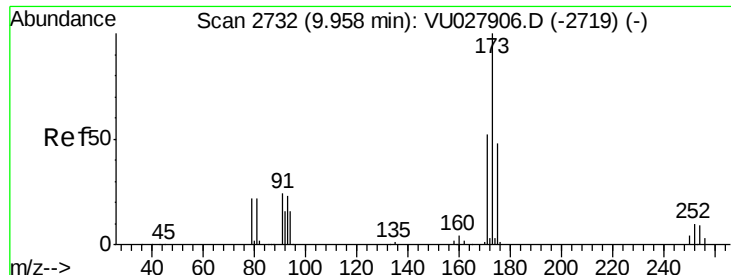
MMDadoda
11/14/2018 9:34:22 AM



#70
Styrene
Concen: 19.473 ug/l
RT: 9.79 min Scan# 2681
Delta R.T. 0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Tgt Ion:104 Resp: 104537
Ion Ratio Lower Upper
104 100
78 53.2 43.0 64.4
103 57.1 45.1 67.7





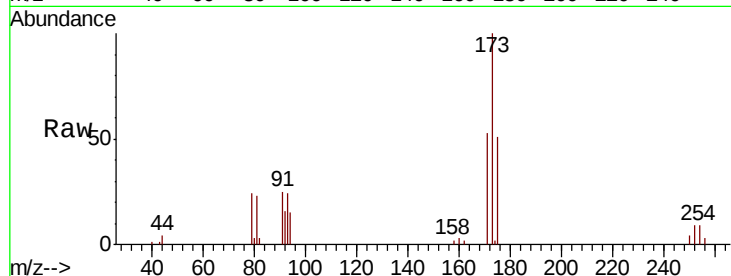
#71
Bromoform
Concen: 19.379 ug/l
RT: 9.96 min Scan# 2732
Delta R.T. 0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Instrument :
MSVOA_U
ClientSampleId :
VU1113WBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.2	24.3	72.8
254	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
11/14/2018 9:34:22 AM

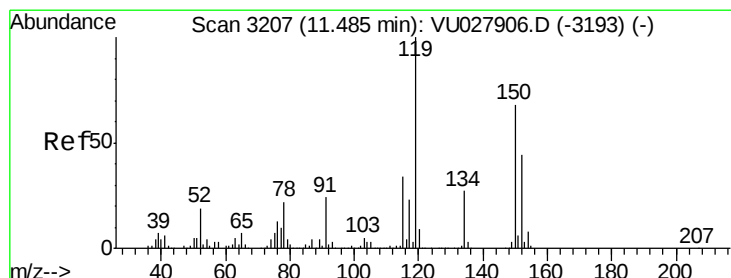
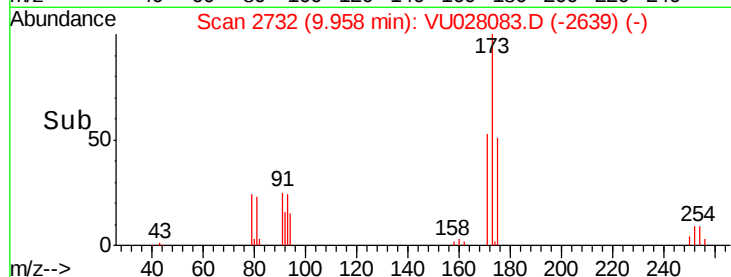
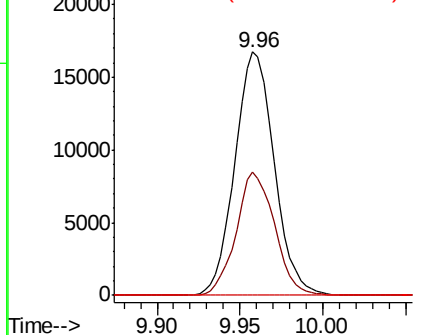


Abundance

Ion 172.70 (172.40 to 173.40): V

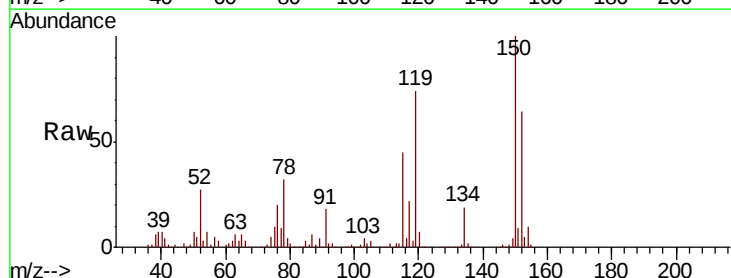
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3206
Delta R.T. -0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Tgt Ion	Ratio	Lower	Upper
152	100		
115	69.3	43.0	129.0
150	162.7	0.0	349.4

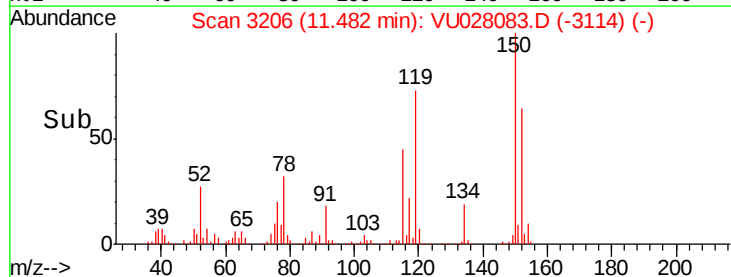
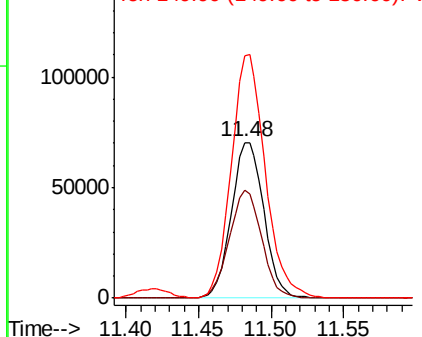


Abundance

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: 20.183 ug/l

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU028083.D

Acq: 13 Nov 2018 11:40

Instrument :

MSVOA_U

ClientSampleId :

VU1113WBS01

Tot Ion: 105 Resp: 170913

Ion Ratio Lower Upper

105 100

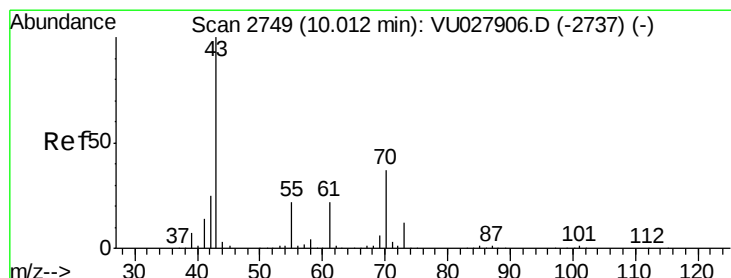
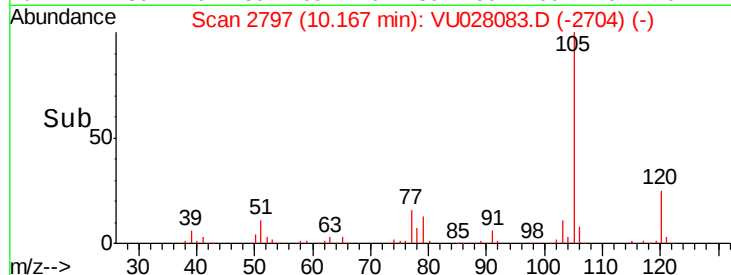
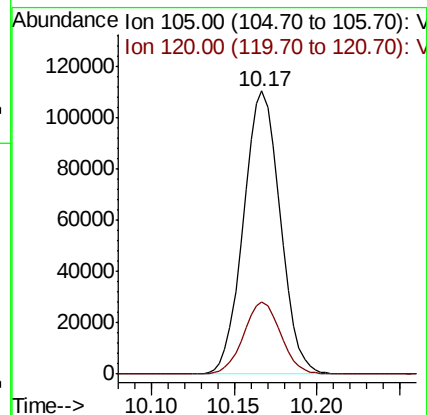
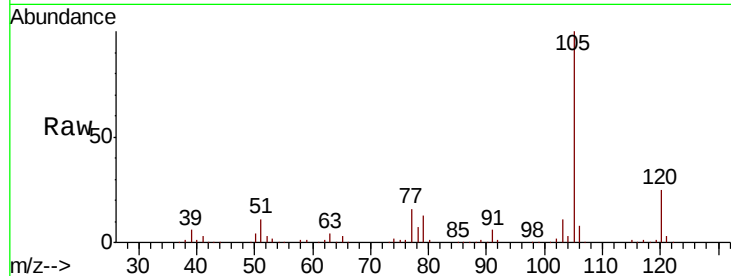
120 25.6 12.7 38.0

Manual Integrations

APPROVED

MMDadoda

11/14/2018 9:34:22 AM



#74

N-ethyl acetate

Concen: 21.015 ug/l

RT: 10.01 min Scan# 2749

Delta R.T. 0.00 min

Lab File: VU028083.D

Acq: 13 Nov 2018 11:40

Tgt Ion: 43 Resp: 107608

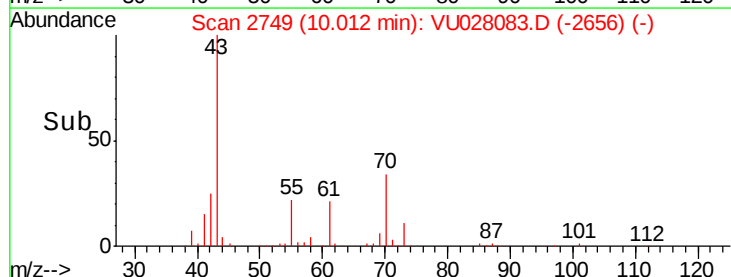
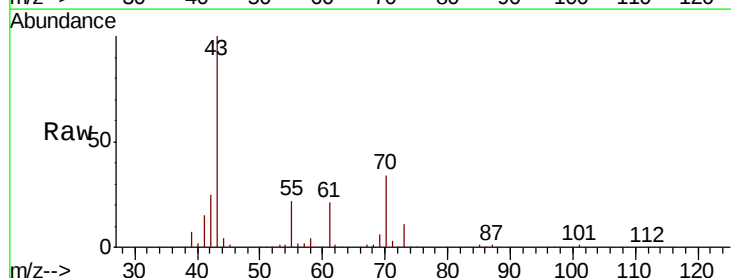
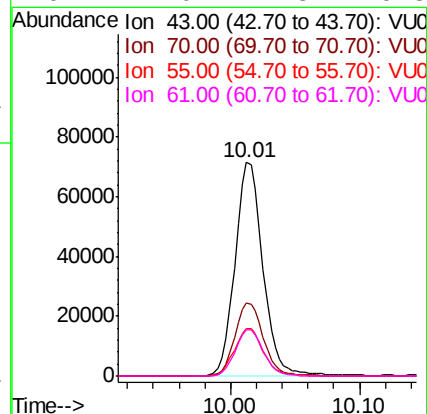
Ion Ratio Lower Upper

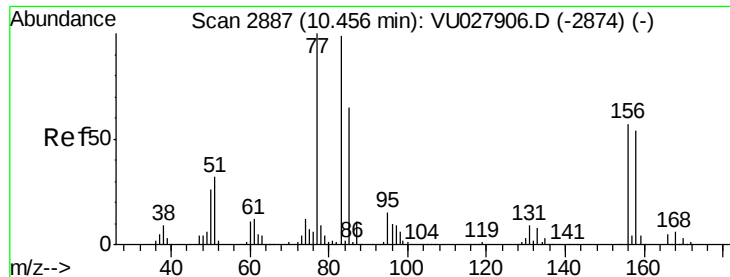
43 100

70 34.6 29.2 43.8

55 22.9 17.8 26.6

61 22.0 17.8 26.8





#75

1,1,2,2-Tetrachloroethane

Concen: 20.582 ug/l

RT: 10.46 min Scan# 2888

Delta R.T. 0.00 min

Lab File: VU028083.D

Acq: 13 Nov 2018 11:40

Instrument :

MSVOA_U

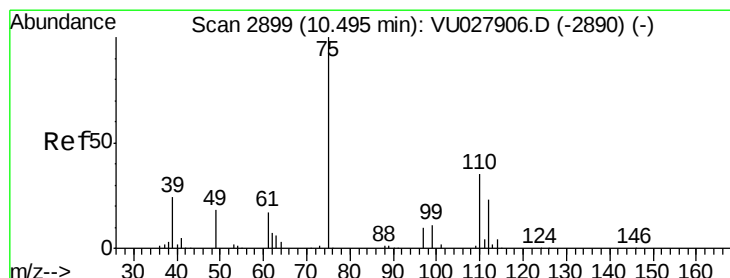
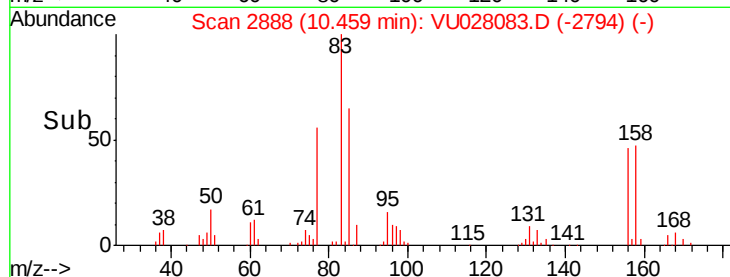
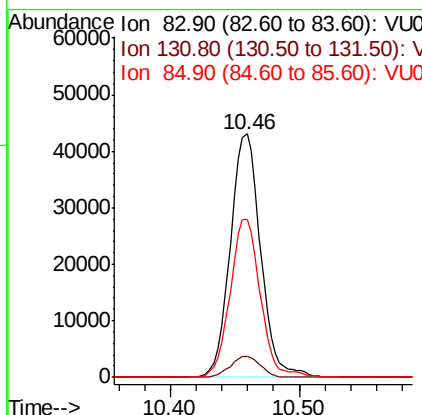
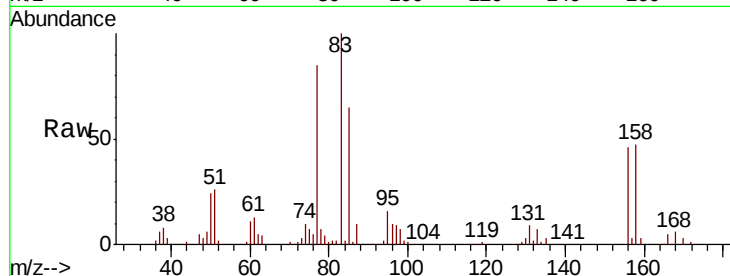
ClientSampleId :

VU1113WBS01

Tot Ion:	83	Resp:	70303
Ion Ratio	Lower	Upper	
83	100		
131	8.5	4.3	13.1
85	64.7	32.4	97.2

Manual Integrations
APPROVED

MMDadoda
11/14/2018 9:34:22 AM



#76

1,2,3-Trichloropropane

Concen: 20.996 ug/l m

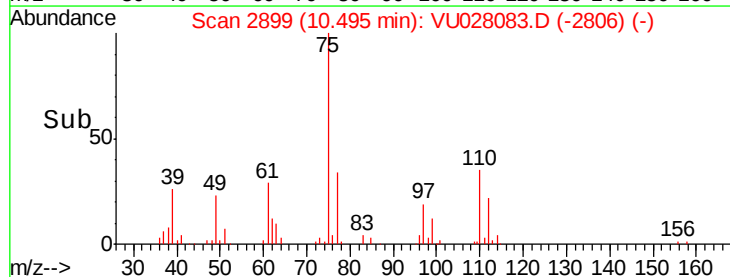
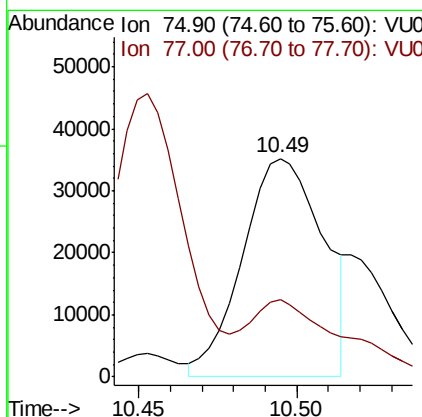
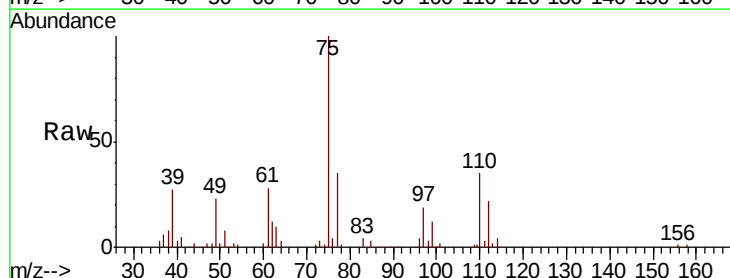
RT: 10.49 min Scan# 2899

Delta R.T. 0.00 min

Lab File: VU028083.D

Acq: 13 Nov 2018 11:40

Tgt Ion:	75	Resp:	62777
Ion Ratio	Lower	Upper	
75	100		
77	42.3	21.6	64.6





#77

Bromobenzene

Concen: 20.046 ug/l

RT: 10.45 min Scan# 2886

Delta R.T. 0.00 min

Lab File: VU028083.D

Acq: 13 Nov 2018 11:40

Instrument :

MSVOA_U

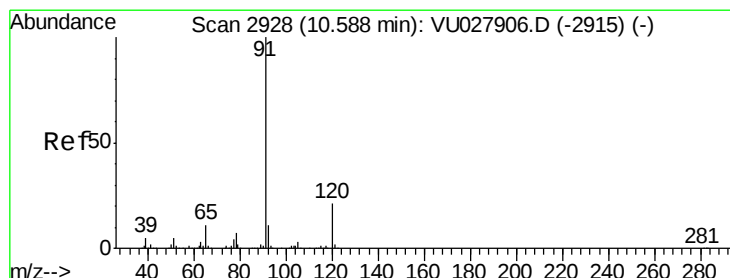
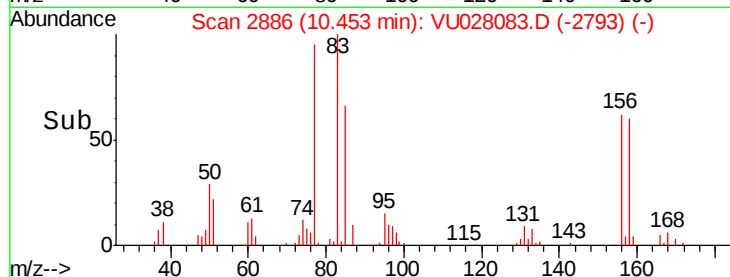
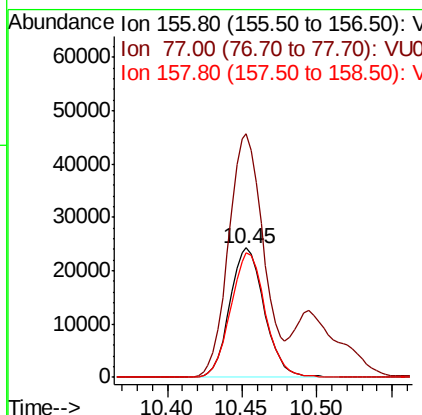
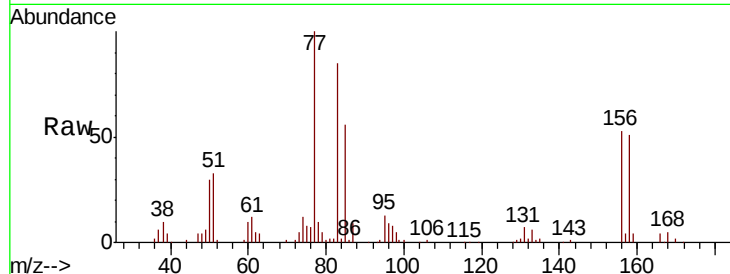
ClientSampleId :

VU1113WBS01

Tot Ion:	156	Resp:	38923
Ion Ratio	Lower	Upper	
156	100		
77	191.1	91.8	275.6
158	97.0	48.4	145.2

Manual Integrations
APPROVED

MMDadoda
11/14/2018 9:34:22 AM



#78

n-propylbenzene

Concen: 20.112 ug/l

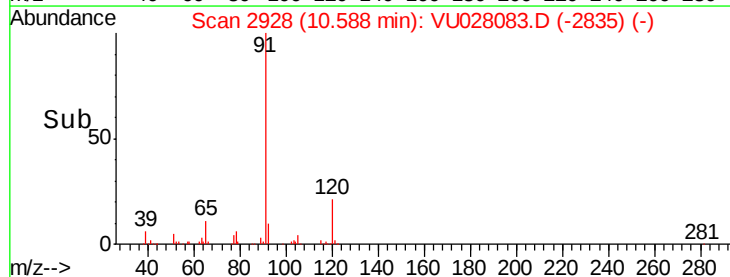
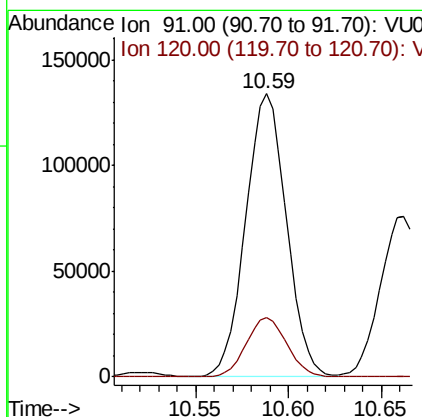
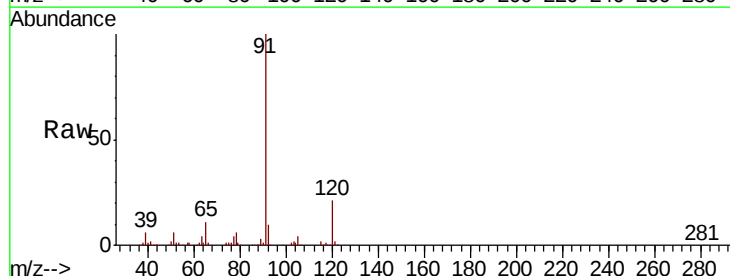
RT: 10.59 min Scan# 2928

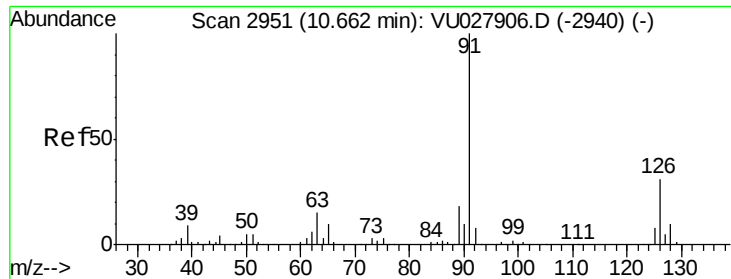
Delta R.T. 0.00 min

Lab File: VU028083.D

Acq: 13 Nov 2018 11:40

Tgt Ion:	91	Resp:	203853
Ion Ratio	Lower	Upper	
91	100		
120	21.0	10.6	31.8





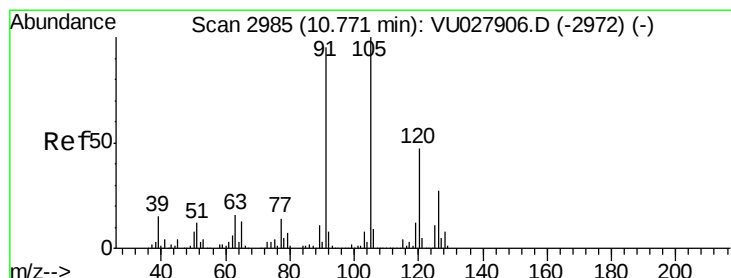
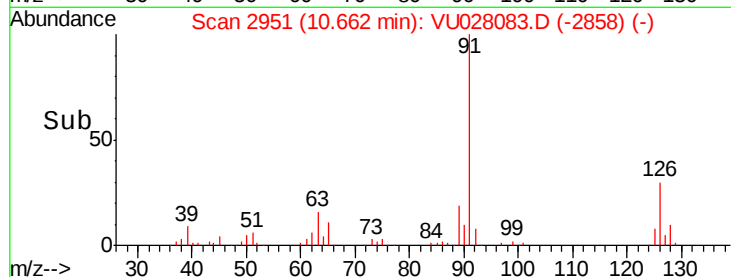
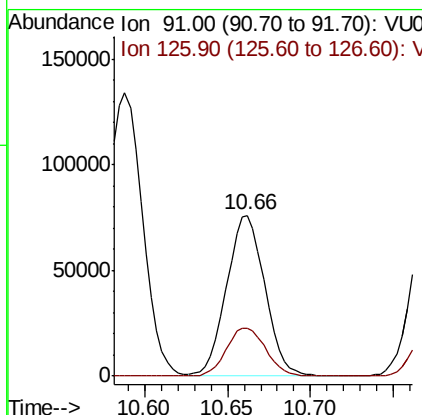
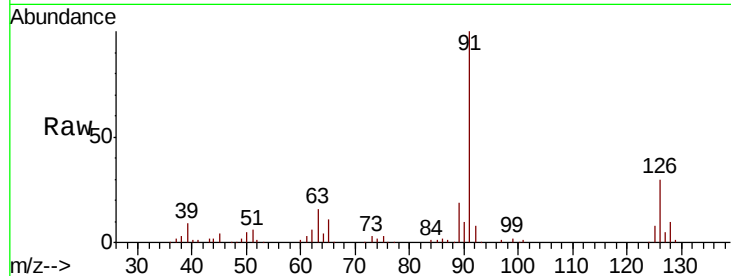
#79
2-Chlorotoluene
Concen: 19.935 ug/l
RT: 10.66 min Scan# 2951
Delta R.T. 0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Instrument :
MSVOA_U
ClientSampleId :
VU1113WBS01

Tot Ion: 91 Resp: 121118
Ion Ratio Lower Upper
91 100
126 30.9 16.0 47.9

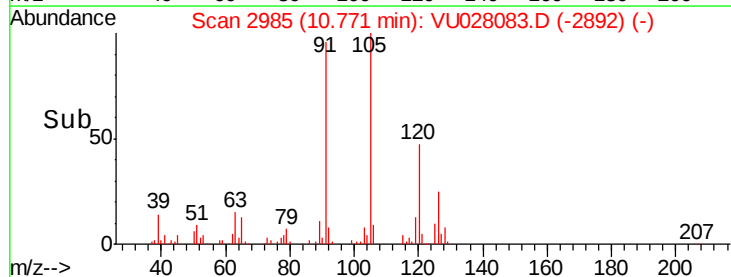
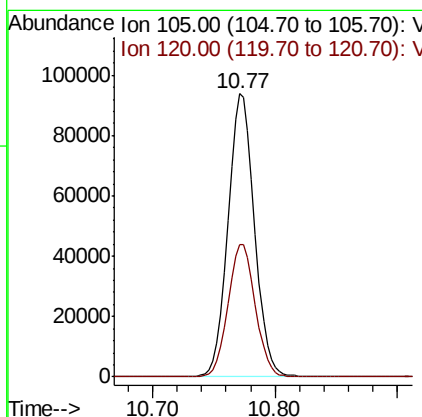
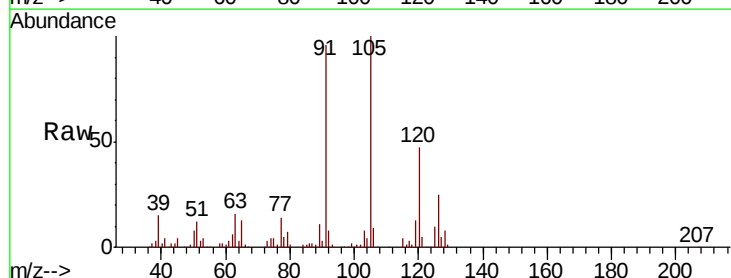
Manual Integrations
APPROVED

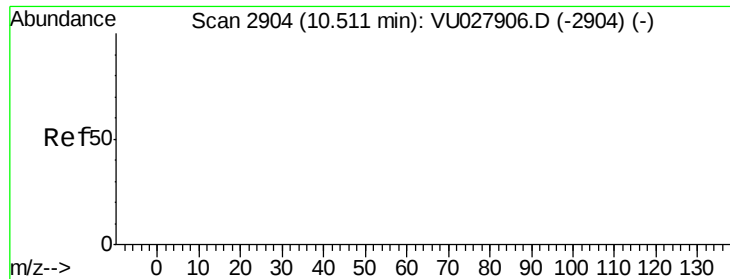
MMDadoda
11/14/2018 9:34:22 AM



#80
1,3,5-Trimethylbenzene
Concen: 20.305 ug/l
RT: 10.77 min Scan# 2985
Delta R.T. 0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Tgt Ion: 105 Resp: 142432
Ion Ratio Lower Upper
105 100
120 48.0 23.3 69.9





#81

trans-1,4-Dichloro-2-butene

Concen: 16.588 ug/l m

RT: 10.51 min Scan# 2905

Delta R.T. 0.00 min

Lab File: VU028083.D

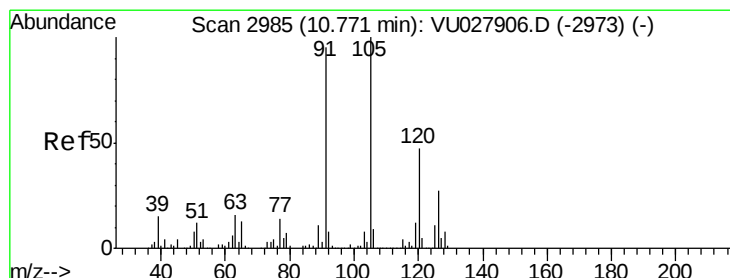
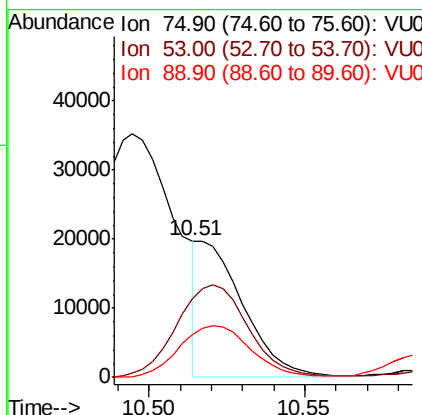
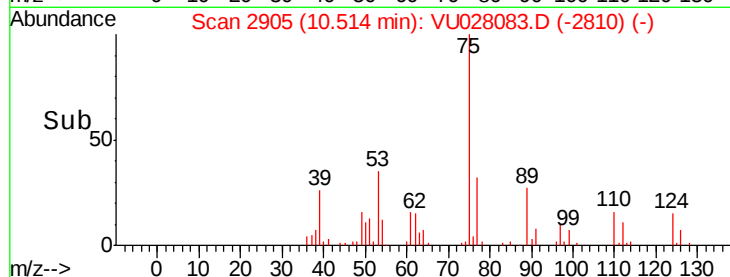
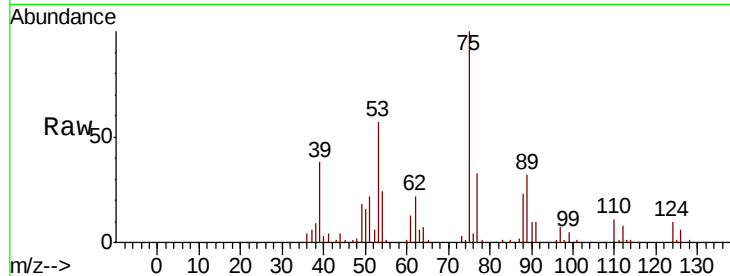
Acq: 13 Nov 2018 11:40

Instrument :
MSVOA_U
ClientSampleId :
VU1113WBS01

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
11/14/2018 9:34:22 AM



#82

4-Chlorotoluene

Concen: 20.125 ug/l

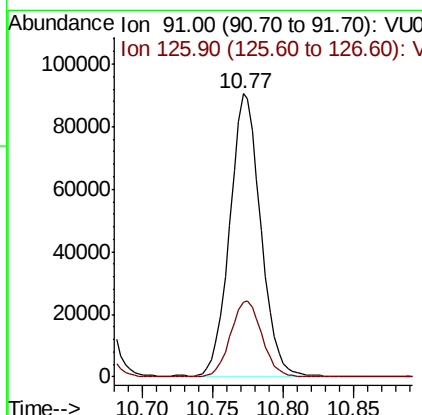
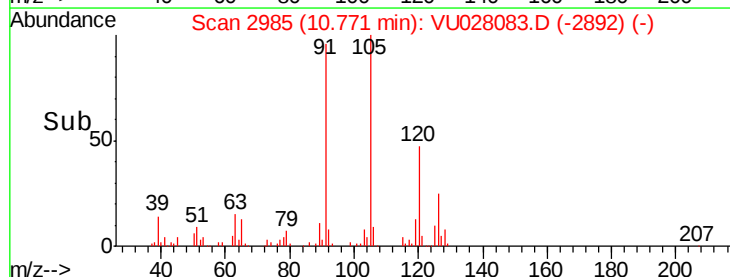
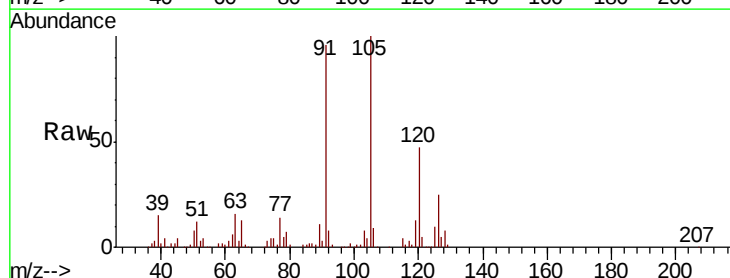
RT: 10.77 min Scan# 2985

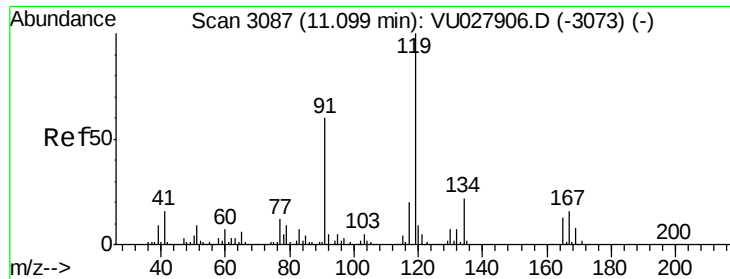
Delta R.T. 0.00 min

Lab File: VU028083.D

Acq: 13 Nov 2018 11:40

Tgt Ion	Ratio	Lower	Upper
91	100		
126	27.3	14.2	42.6





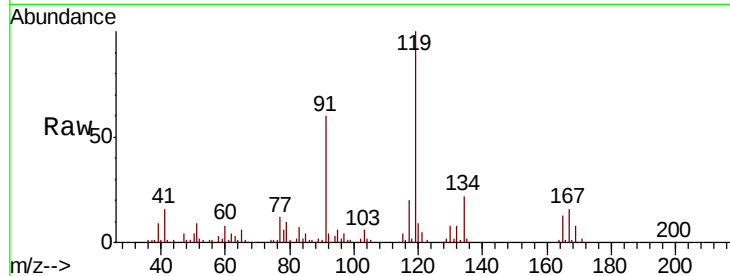
#83
tert-Butylbenzene
Concen: 19.483 ug/l
RT: 11.10 min Scan# 3088
Delta R.T. 0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Instrument :
MSVOA_U
ClientSampleId :
VU1113WBS01

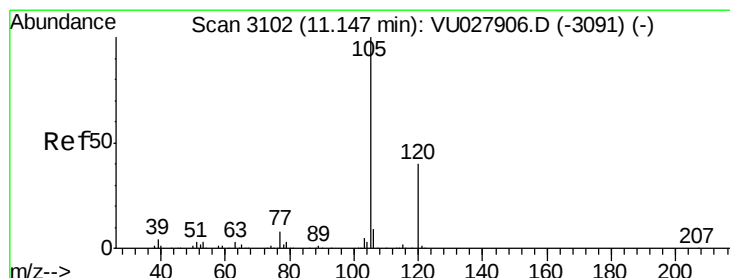
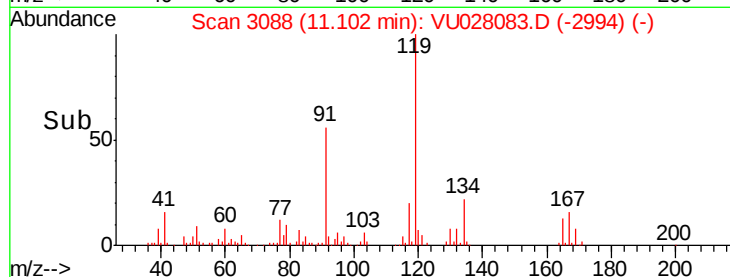
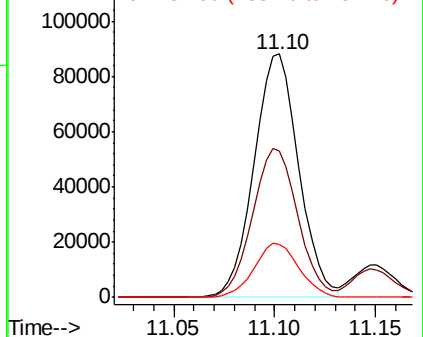
Tot Ion	Ratio	Resp	Lower	Upper
119	100	136630		
91	61.8	29.8	89.3	
134	22.2	11.1	33.1	

Manual Integrations
APPROVED

MMDadoda
11/14/2018 9:34:22 AM

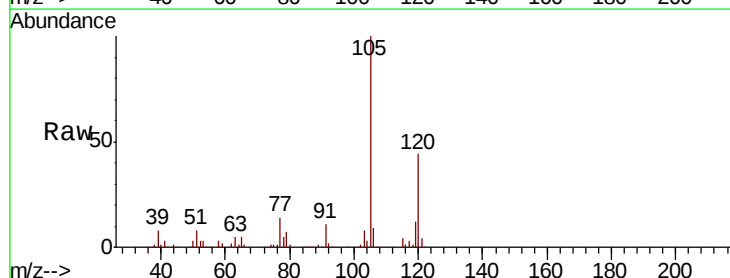


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

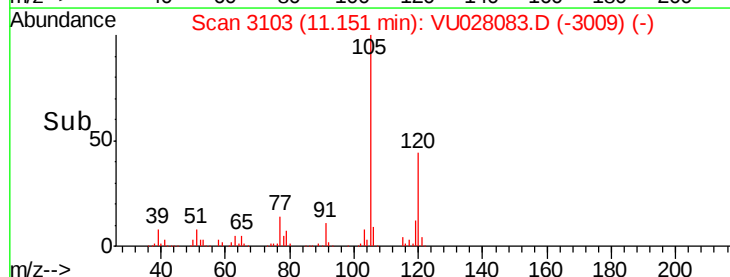
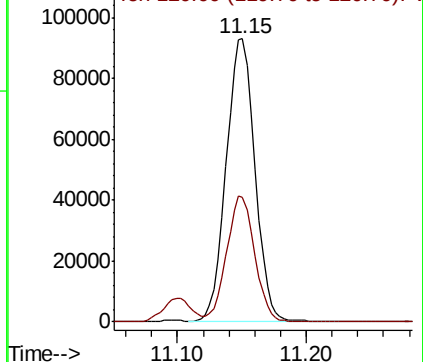


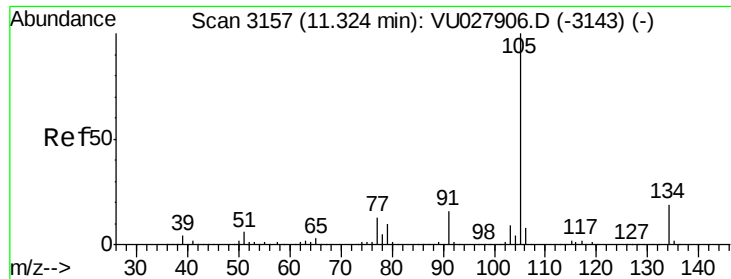
#84
1,2,4-Trimethylbenzene
Concen: 20.280 ug/l
RT: 11.15 min Scan# 3103
Delta R.T. 0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	143252		
120	43.3	22.1	66.1	



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 20.529 ug/l

RT: 11.32 min Scan# 3157

Delta R.T. 0.00 min

Lab File: VU028083.D

Acq: 13 Nov 2018 11:40

Instrument :

MSVOA_U

ClientSampleId :

VU1113WBS01

Tot Ion:105 Resp: 175086

Ion Ratio Lower Upper

105 100

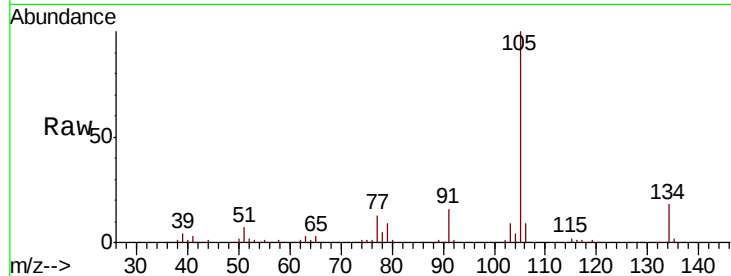
134 18.1 9.2 27.6

Manual Integrations

APPROVED

MMDadoda

11/14/2018 9:34:22 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

11.32

120000

100000

80000

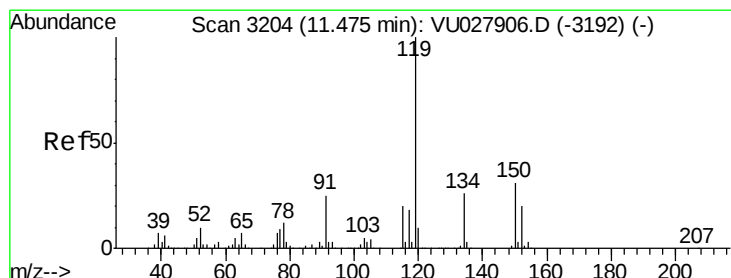
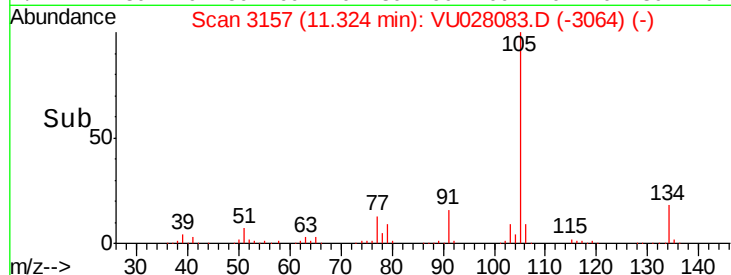
60000

40000

20000

0

Time-->



#86

p-Isopropyltoluene

Concen: 20.332 ug/l

RT: 11.48 min Scan# 3204

Delta R.T. 0.00 min

Lab File: VU028083.D

Acq: 13 Nov 2018 11:40

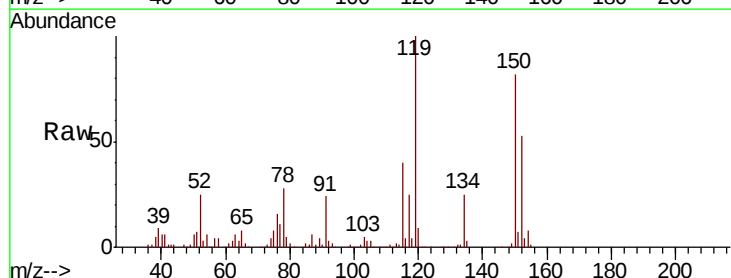
Tgt Ion:119 Resp: 144965

Ion Ratio Lower Upper

119 100

134 25.0 12.9 38.7

91 24.5 12.4 37.2



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VU

11.48

120000

100000

80000

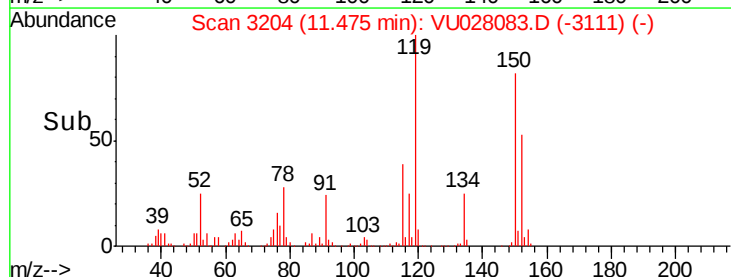
60000

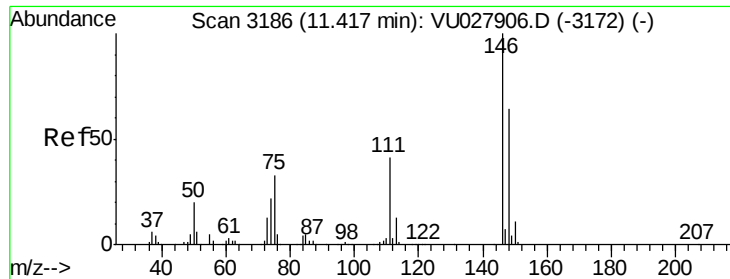
40000

20000

0

Time-->





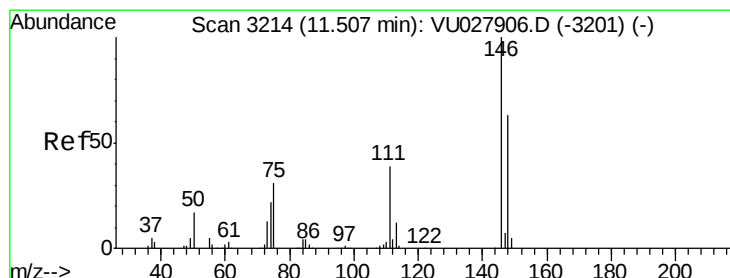
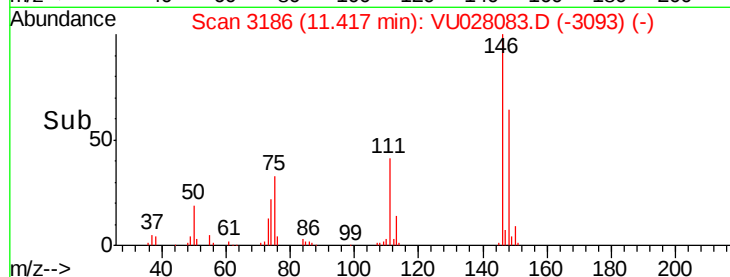
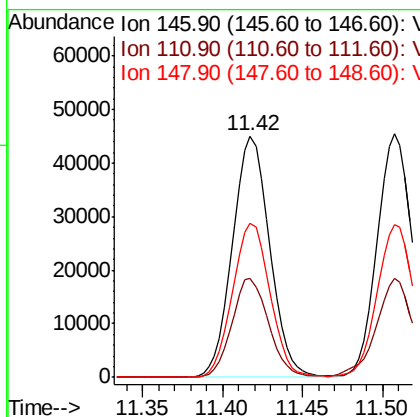
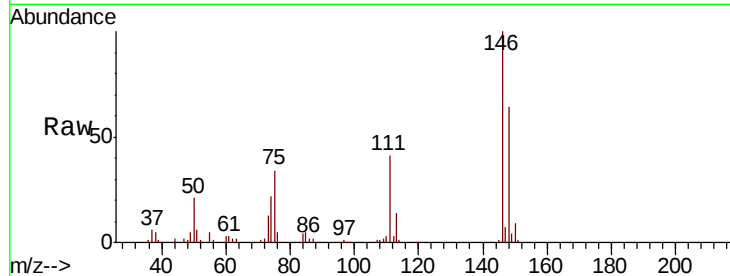
#87
 1,3-Dichlorobenzene
 Concen: 19.887 ug/l
 RT: 11.42 min Scan# 3186
 Delta R.T. 0.00 min
 Lab File: VU028083.D
 Acq: 13 Nov 2018 11:40

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1113WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.4	20.3	61.0
148	64.1	31.8	95.4

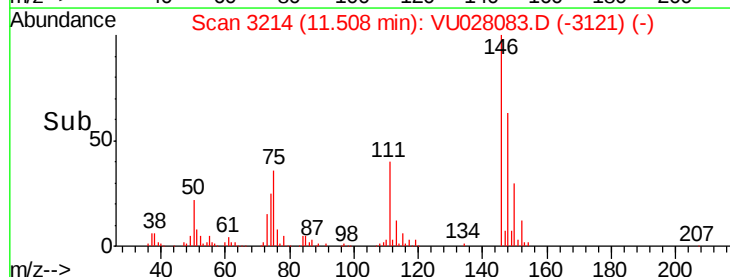
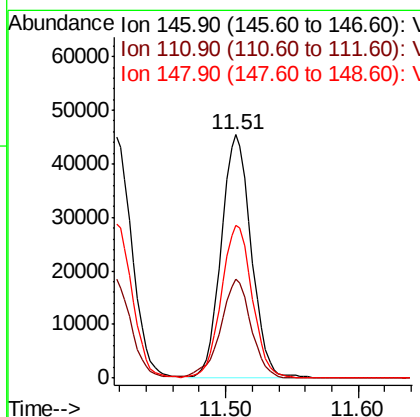
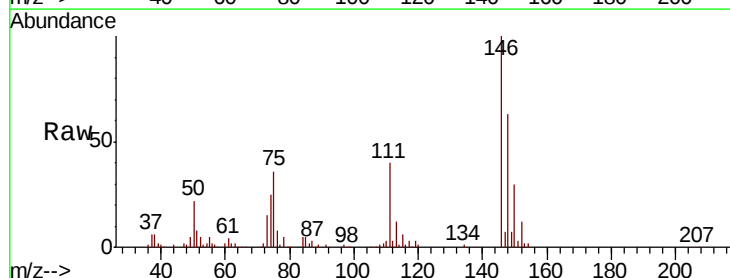
Manual Integrations
 APPROVED

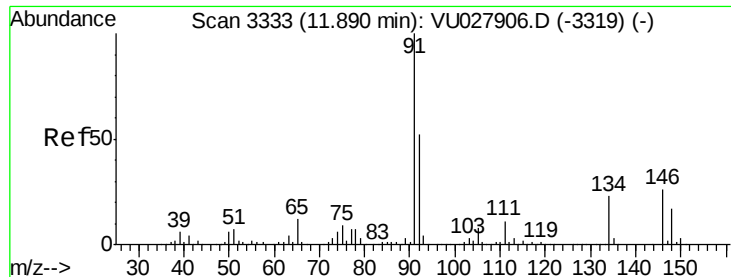
MMDadoda
 11/14/2018 9:34:22 AM



#88
 1,4-Dichlorobenzene
 Concen: 19.406 ug/l
 RT: 11.51 min Scan# 3214
 Delta R.T. 0.00 min
 Lab File: VU028083.D
 Acq: 13 Nov 2018 11:40

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.3	20.3	60.9
148	64.7	32.0	96.2





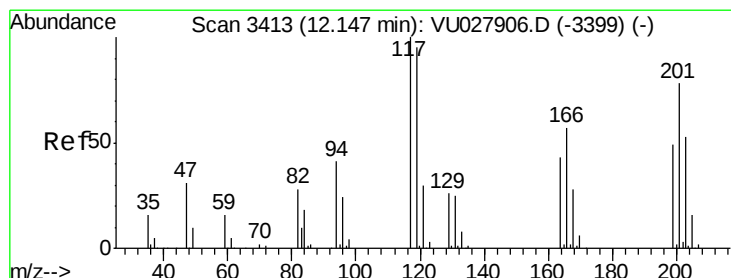
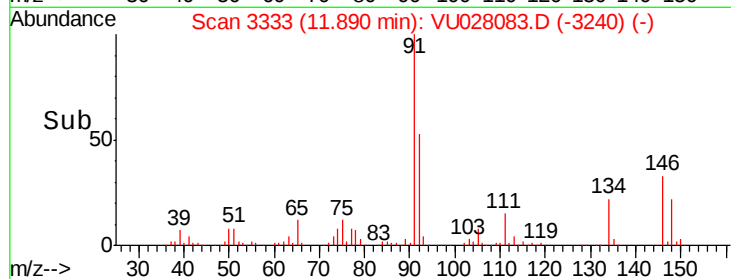
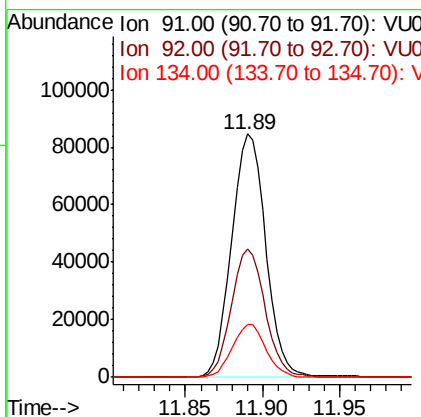
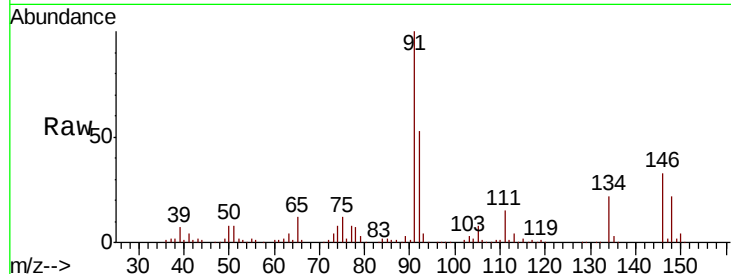
#89
n-Butylbenzene
Concen: 19.177 ug/l
RT: 11.89 min Scan# 3333
Delta R.T. 0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Instrument :
MSVOA_U
ClientSampleId :
VU1113WBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.3	26.2	78.5
134	21.5	11.5	34.5

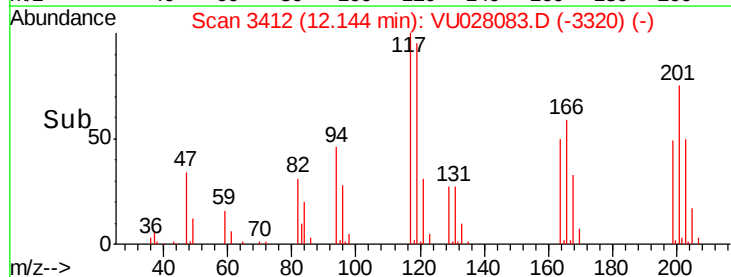
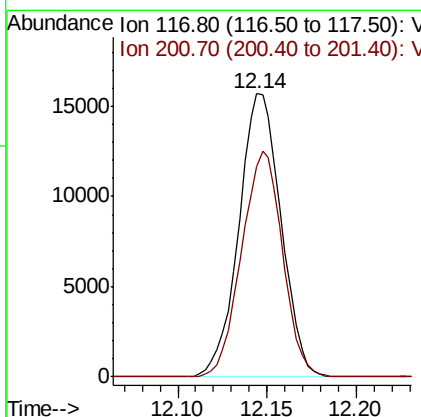
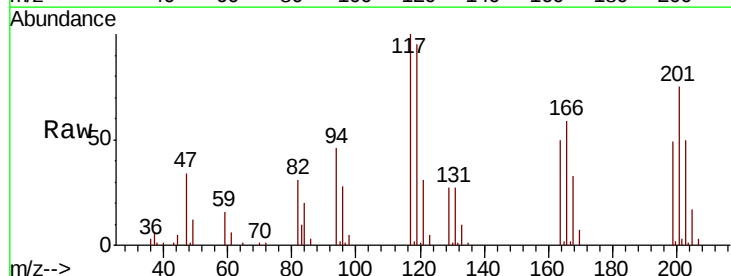
Manual Integrations
APPROVED

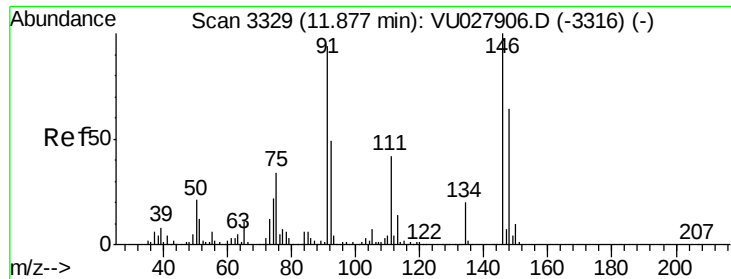
MMDadoda
11/14/2018 9:34:22 AM



#90
Hexachloroethane
Concen: 20.432 ug/l
RT: 12.14 min Scan# 3412
Delta R.T. -0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Tgt Ion	Ratio	Lower	Upper
117	100		
201	77.4	38.5	115.5





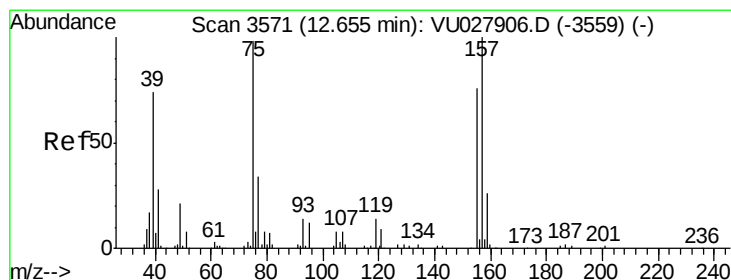
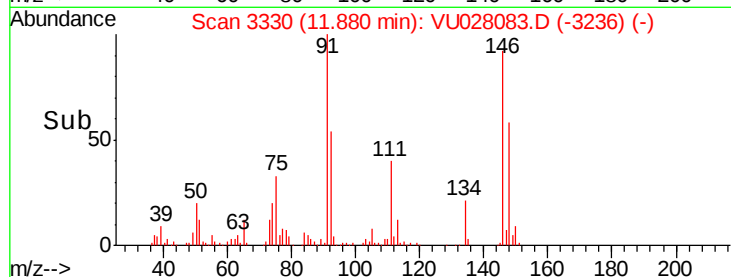
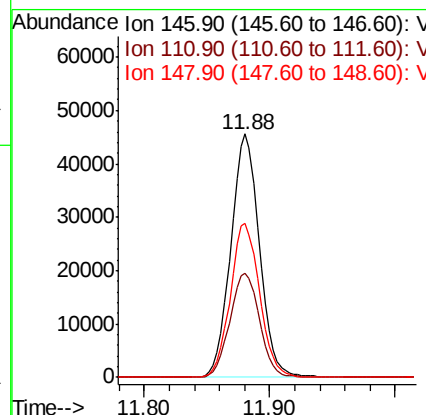
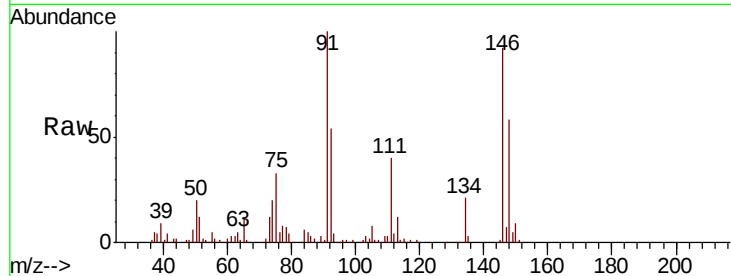
#91
 1,2-Dichlorobenzene
 Concen: 19.974 ug/l
 RT: 11.88 min Scan# 3330
 Delta R.T. 0.00 min
 Lab File: VU028083.D
 Acq: 13 Nov 2018 11:40

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1113WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.4	21.3	64.0
148	64.8	31.8	95.3

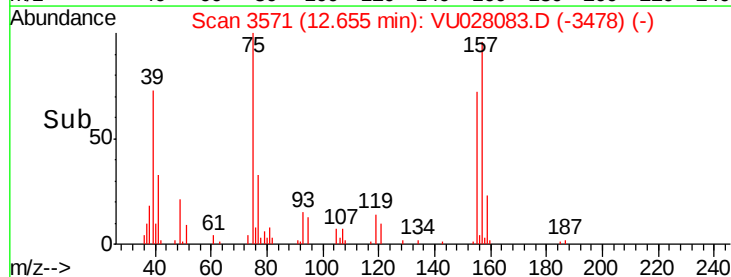
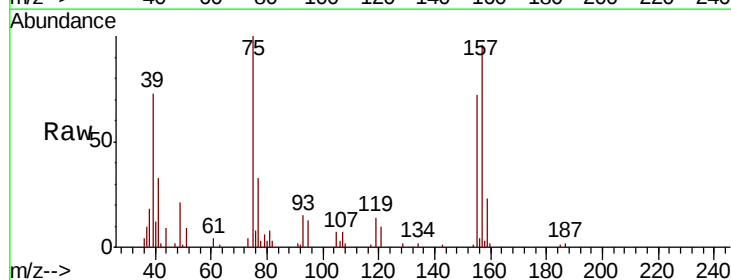
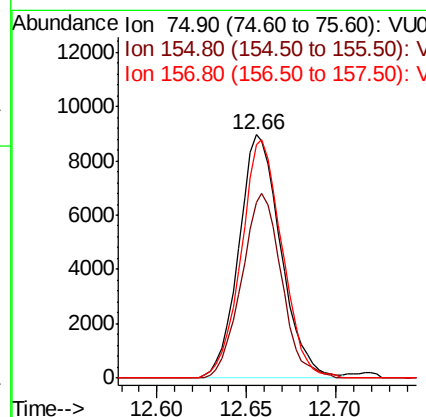
Manual Integrations
 APPROVED

MMDadoda
 11/14/2018 9:34:22 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.494 ug/l
 RT: 12.66 min Scan# 3571
 Delta R.T. 0.00 min
 Lab File: VU028083.D
 Acq: 13 Nov 2018 11:40

Tgt Ion	Ratio	Lower	Upper
75	100		
155	72.2	39.8	119.3
157	95.4	50.6	151.9





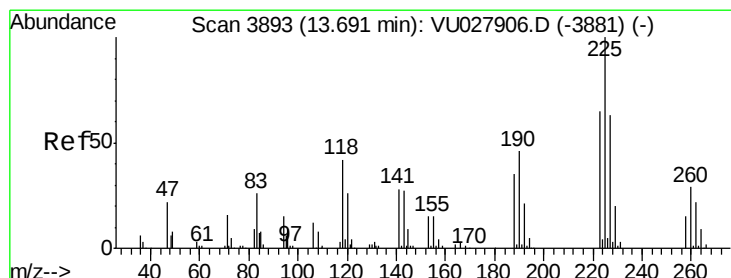
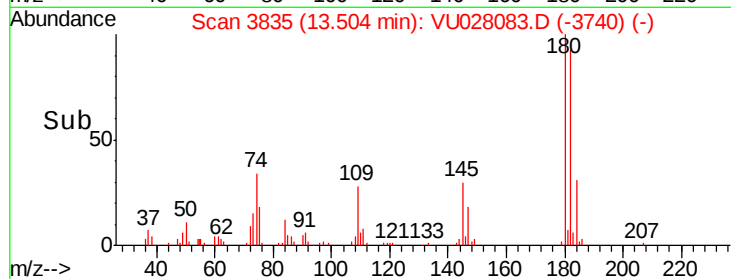
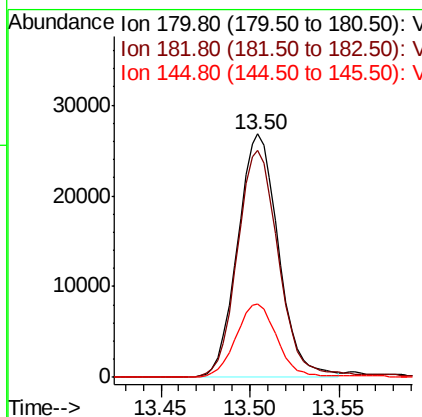
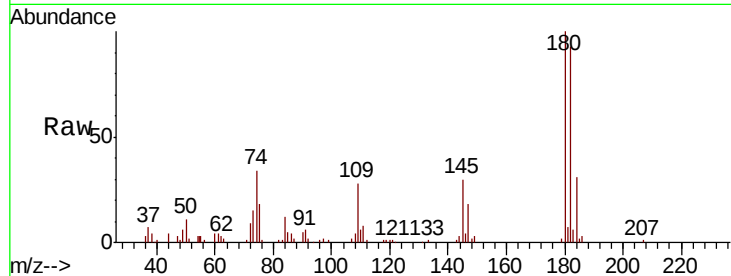
#93
 1,2,4-Trichlorobenzene
 Concen: 17.320 ug/l
 RT: 13.50 min Scan# 3835
 Delta R.T. 0.00 min
 Lab File: VU028083.D
 Acq: 13 Nov 2018 11:40

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1113WBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.2	48.4	145.2
145	30.1	14.9	44.5

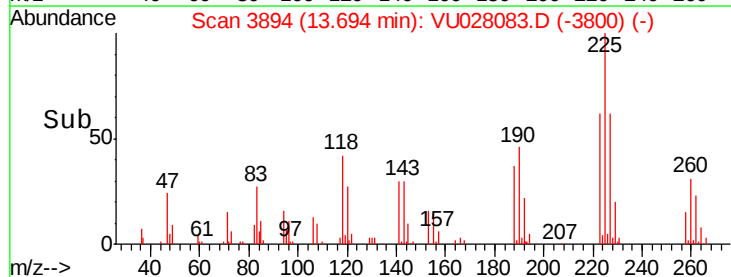
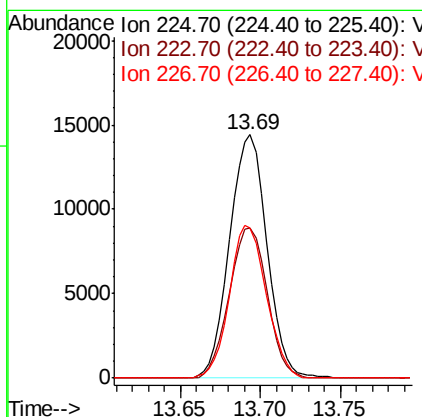
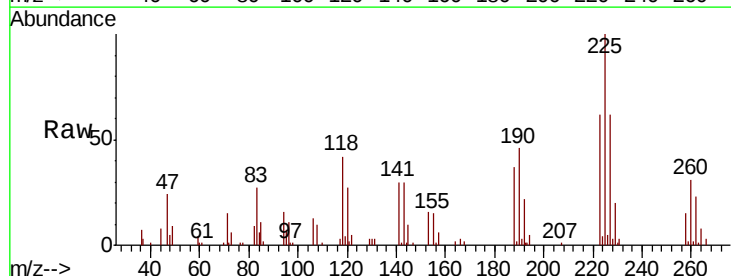
Manual Integrations
 APPROVED

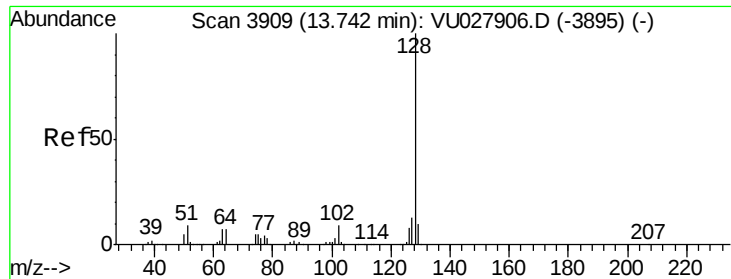
MMDadoda
 11/14/2018 9:34:22 AM



#94
 Hexachlorobutadiene
 Concen: 20.028 ug/l
 RT: 13.69 min Scan# 3894
 Delta R.T. 0.00 min
 Lab File: VU028083.D
 Acq: 13 Nov 2018 11:40

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.5	32.2	96.6
227	61.9	32.5	97.4





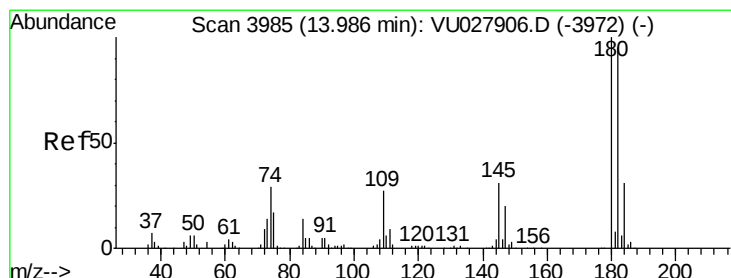
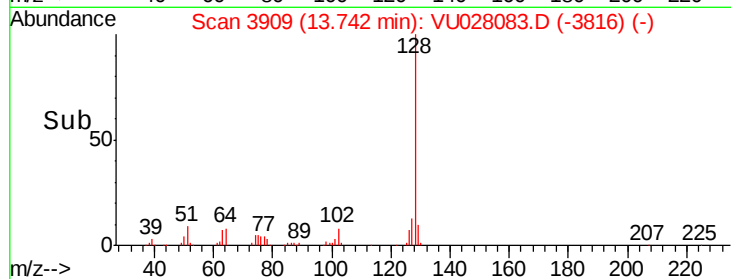
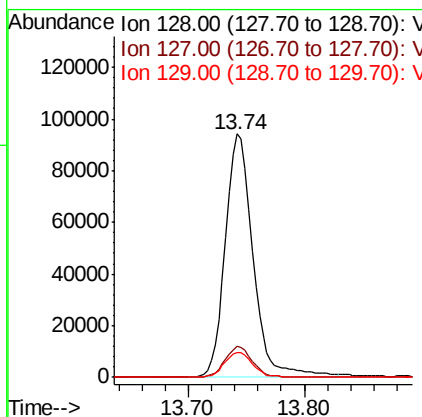
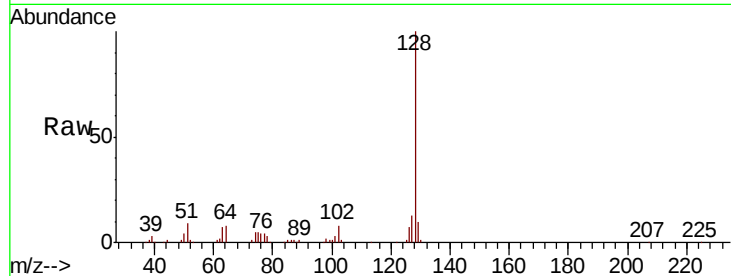
#95
Naphthalene
Concen: 17.323 ug/l
RT: 13.74 min Scan# 3909
Delta R.T. 0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Instrument :
MSVOA_U
ClientSampleId :
VU1113WBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.3	10.4	15.6
129	10.3	8.3	12.5

Manual Integrations
APPROVED

MMDadoda
11/14/2018 9:34:22 AM



#96
1,2,3-Trichlorobenzene
Concen: 19.166 ug/l
RT: 13.99 min Scan# 3985
Delta R.T. 0.00 min
Lab File: VU028083.D
Acq: 13 Nov 2018 11:40

Tgt Ion	Ratio	Lower	Upper
180	100		
182	90.7	47.4	142.3
145	30.2	16.0	47.9

