

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072718\
 Data File : VU025687.D
 Acq On : 27 Jul 2018 23:07
 Operator : MD/SY
 Sample : VU0727WBSD02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0727WBSD02

Manual Integrations
 APPROVED

MMDadoda
 7/31/2018 3:49:58 PM

Quant Time: Jul 28 05:49:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 27 13:11:52 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	168212	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	253591	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	245796	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	153095	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	134386	51.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.54%	
35) Dibromofluoromethane	4.89	113	110493	50.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.20%	
50) Toluene-d8	7.57	98	391701	50.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.50%	
62) 4-Bromofluorobenzene	10.31	95	147316	49.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.34%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	56772	22.33	ug/l	98
3) Chloromethane	1.33	50	48247	19.85	ug/l	99
4) Vinyl Chloride	1.40	62	48139	21.05	ug/l	100
5) Bromomethane	1.63	94	25139	22.51	ug/l	99
6) Chloroethane	1.70	64	26968	20.17	ug/l	96
7) Trichlorofluoromethane	1.89	101	69703	21.08	ug/l	99
8) Diethyl Ether	2.10	74	24018	20.08	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.29	101	42148	22.03	ug/l	97
10) Methyl Iodide	2.41	142	31853	23.38	ug/l	100
11) Tert butyl alcohol	2.83	59	61756	107.62	ug/l	100
12) 1,1-Dichloroethene	2.28	96	38200	21.15	ug/l	100
13) Acrolein	2.19	56	17725	83.94	ug/l	99
14) Allyl chloride	2.59	41	63239	19.48	ug/l	98
15) Acrylonitrile	2.94	53	119769	104.54	ug/l	98
16) Acetone	2.32	43	114243	89.41	ug/l	96
17) Carbon Disulfide	2.48	76	117417	20.09	ug/l	100
18) Methyl Acetate	2.62	43	73021	23.74	ug/l	99
19) Methyl tert-butyl Ether	3.00	73	136786	20.90	ug/l	99
20) Methylene Chloride	2.70	84	44619	19.70	ug/l	99
21) trans-1,2-Dichloroethene	2.99	96	43325	20.75	ug/l	98
22) Diisopropyl ether	3.58	45	134870	21.09	ug/l	95
23) Vinyl Acetate	3.53	43	579738	104.01	ug/l	100
24) 1,1-Dichloroethane	3.45	63	79682	20.75	ug/l	99
25) 2-Butanone	4.27	43	177630	102.12	ug/l	98
26) 2,2-Dichloropropane	4.23	77	56942	16.32	ug/l	98
27) cis-1,2-Dichloroethene	4.23	96	48074	20.42	ug/l	96
28) Bromochloromethane	4.55	49	36880	21.48	ug/l	99
29) Tetrahydrofuran	4.64	42	112200	107.66	ug/l	99
30) Chloroform	4.68	83	82184	20.28	ug/l	100
31) Cyclohexane	5.00	56	71003	20.46	ug/l	98
32) 1,1,1-Trichloroethane	4.92	97	74924	20.53	ug/l	99
36) 1,1-Dichloropropene	5.14	75	61060	20.60	ug/l	97
37) Ethyl Acetate	4.38	43	64147	20.87	ug/l	98
38) Carbon Tetrachloride	5.14	117	67983	20.25	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072718\
 Data File : VU025687.D
 Acq On : 27 Jul 2018 23:07
 Operator : MD/SY
 Sample : VU0727WBSD02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0727WBSD02

Manual Integrations
 APPROVED

MMDadoda
 7/31/2018 3:49:58 PM

Quant Time: Jul 28 05:49:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 27 13:11:52 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.42	83	66934	19.71	ug/l	94
40) Benzene	5.39	78	175470	20.26	ug/l	99
41) Methacrylonitrile	4.55	41	36099	21.15	ug/l	99
42) 1,2-Dichloroethane	5.41	62	69705	20.90	ug/l	100
43) Isopropyl Acetate	5.55	43	106183	20.91	ug/l	99
44) Trichloroethene	6.19	130	49639	20.58	ug/l	97
45) 1,2-Dichloropropane	6.44	63	46013	20.37	ug/l	99
46) Dibromomethane	6.56	93	33309	20.35	ug/l	99
47) Bromodichloromethane	6.76	83	63552	20.35	ug/l	98
48) Methyl methacrylate	6.63	41	53155	21.36	ug/l	99
49) 1,4-Dioxane	6.62	88	25699	424.32	ug/l	99
51) 4-Methyl-2-Pentanone	7.46	43	340994	107.26	ug/l	99
52) Toluene	7.64	92	112324	20.87	ug/l	99
53) t-1,3-Dichloropropene	7.88	75	70524	20.11	ug/l	97
54) cis-1,3-Dichloropropene	7.27	75	72528	20.14	ug/l	98
55) 1,1,2-Trichloroethane	8.07	97	45298	20.25	ug/l	99
56) Ethyl methacrylate	8.02	69	66495	20.81	ug/l	98
57) 1,3-Dichloropropane	8.25	76	77180	20.52	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.13	63	133645	96.82	ug/l	100
59) 2-Hexanone	8.36	43	261877	105.08	ug/l	100
60) Dibromochloromethane	8.48	129	52761	20.00	ug/l	99
61) 1,2-Dibromoethane	8.59	107	50941	20.48	ug/l	100
64) Tetrachloroethene	8.23	164	45900	21.22	ug/l	97
65) Chlorobenzene	9.12	112	131843	20.80	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.21	131	47417	20.68	ug/l	97
67) Ethyl Benzene	9.25	91	215329	20.51	ug/l	100
68) m/p-Xylenes	9.38	106	168075	41.71	ug/l	99
69) o-Xylene	9.78	106	82250	20.88	ug/l	99
70) Styrene	9.80	104	132685	20.86	ug/l	98
71) Bromoform	9.96	173	39756	20.00	ug/l #	99
73) Isopropylbenzene	10.17	105	217686	20.83	ug/l	100
74) N-amyl acetate	10.01	43	90734	21.27	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.46	83	74013	20.48	ug/l	98
76) 1,2,3-Trichloropropane	10.50	75	67115m	19.90	ug/l	
77) Bromobenzene	10.45	156	59731	20.72	ug/l	99
78) n-propylbenzene	10.59	91	256566	21.04	ug/l	100
79) 2-Chlorotoluene	10.66	91	150128	21.02	ug/l	99
80) 1,3,5-Trimethylbenzene	10.78	105	187431	21.12	ug/l	100
81) trans-1,4-Dichloro-2-buten	10.50	75	51244m	38.09	ug/l	
82) 4-Chlorotoluene	10.78	91	181061	21.50	ug/l	100
83) tert-Butylbenzene	11.10	119	184050	20.87	ug/l	98
84) 1,2,4-Trimethylbenzene	11.15	105	190704	21.21	ug/l	97
85) sec-Butylbenzene	11.33	105	225993	20.99	ug/l	100
86) p-Isopropyltoluene	11.48	119	202353	20.99	ug/l	100
87) 1,3-Dichlorobenzene	11.42	146	110381	20.63	ug/l	98
88) 1,4-Dichlorobenzene	11.51	146	112321	20.14	ug/l	99
89) n-Butylbenzene	11.89	91	181281	20.38	ug/l	98
90) Hexachloroethane	12.15	117	33422	19.50	ug/l	100
91) 1,2-Dichlorobenzene	11.88	146	109455	20.87	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.66	75	18658	21.78	ug/l	99

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU072718\
Data File : VU025687.D
Acq On : 27 Jul 2018 23:07
Operator : MD/SY
Sample : VU0727WBSD02
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 33 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VU0727WBSD02

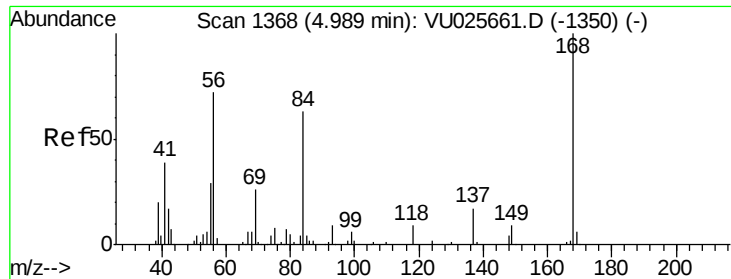
Manual Integrations
APPROVED

MMDadoda
7/31/2018 3:49:58 PM

Quant Time: Jul 28 05:49:04 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.M
Quant Title : SW846 8260
QLast Update : Fri Jul 27 13:11:52 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.51	180	74688	21.10	ug/l	98
94) Hexachlorobutadiene	13.70	225	37578	20.14	ug/l	98
95) Naphthalene	13.75	128	219602	20.09	ug/l	99
96) 1,2,3-Trichlorobenzene	13.99	180	76026	21.53	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

Instrument :

MSVOA_U

ClientSampleId :

VU0727WBSD02

Tot Ion:168 Resp: 168212

Ion Ratio Lower Upper

168 100

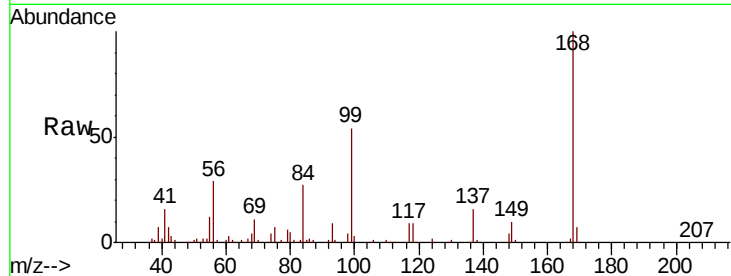
99 54.0 42.8 64.2

Manual Integrations

APPROVED

MMDadoda

7/31/2018 3:49:58 PM



Abundance Ion 167.90 (167.60 to 168.60): VU025687.D (-1350) (-)

Ion 98.90 (98.60 to 99.60): VU025687.D (-1350) (-)

4.99

80000

60000

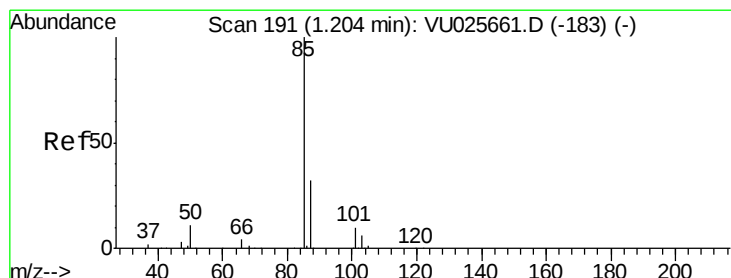
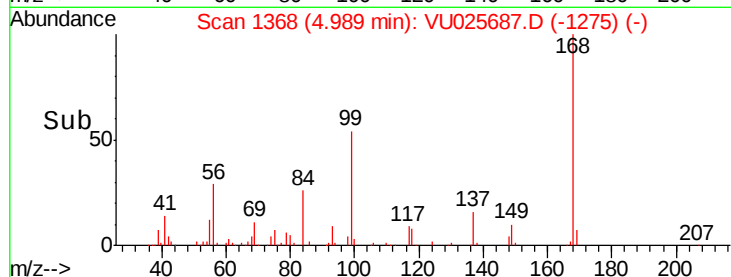
40000

20000

0

4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 22.33 ug/l

RT: 1.21 min Scan# 192

Delta R.T. 0.00 min

Lab File: VU025687.D

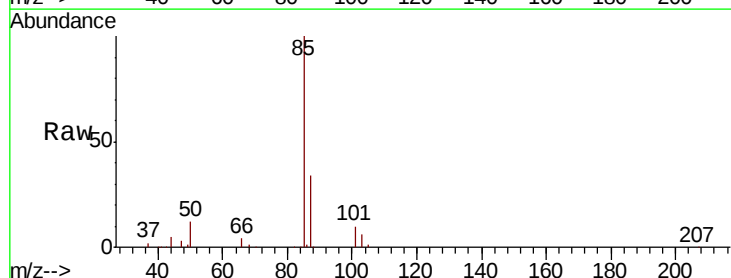
Acq: 27 Jul 2018 23:07

Tgt Ion: 85 Resp: 56772

Ion Ratio Lower Upper

85 100

87 34.3 16.5 49.5



Abundance Ion 84.90 (84.60 to 85.60): VU025687.D (-98) (-)

Ion 86.90 (86.60 to 87.60): VU025687.D (-98) (-)

1.21

60000

50000

40000

30000

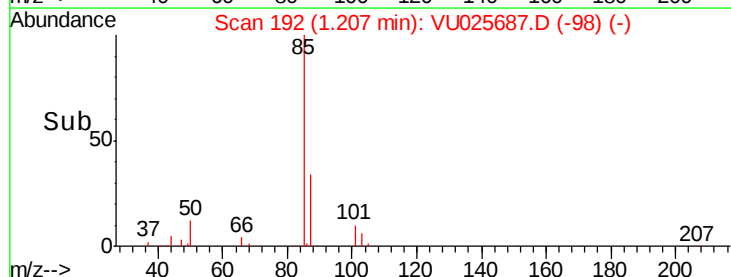
20000

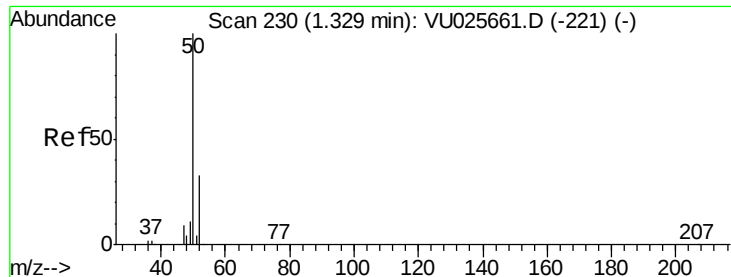
10000

0

1.15 1.20 1.25

Time-->





#3

Chloromethane

Concen: 19.85 ug/l

RT: 1.33 min Scan# 231

Delta R.T. 0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

Instrument :

MSVOA_U

ClientSampleId :

VU0727WBSD02

Tot Ion: 50 Resp: 48247

Ion Ratio Lower Upper

50 100

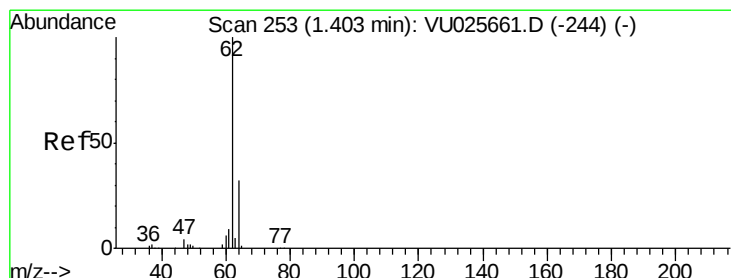
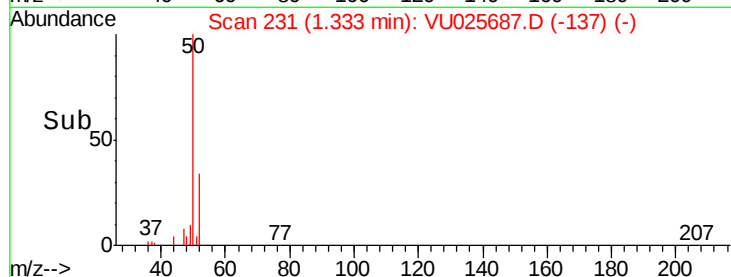
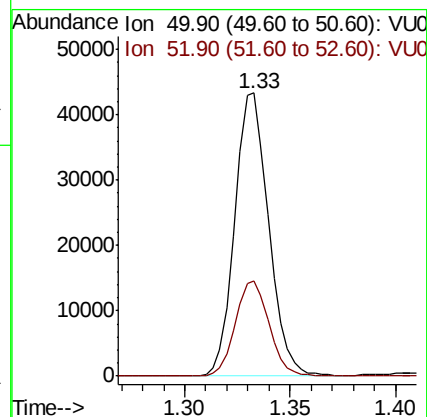
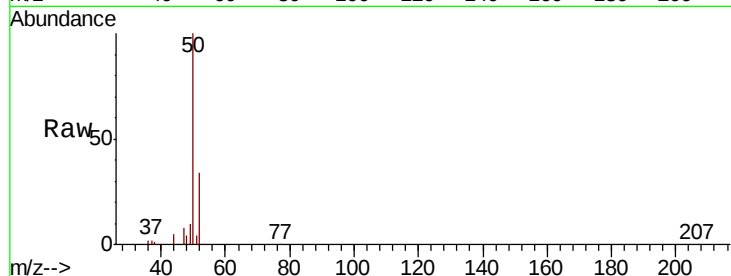
52 33.8 26.5 39.7

Manual Integrations

APPROVED

MMDadoda

7/31/2018 3:49:58 PM



#4

Vinyl Chloride

Concen: 21.05 ug/l

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU025687.D

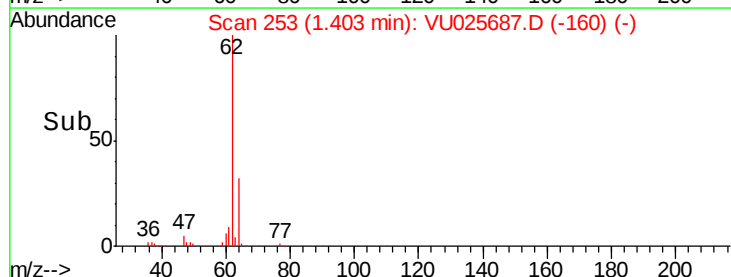
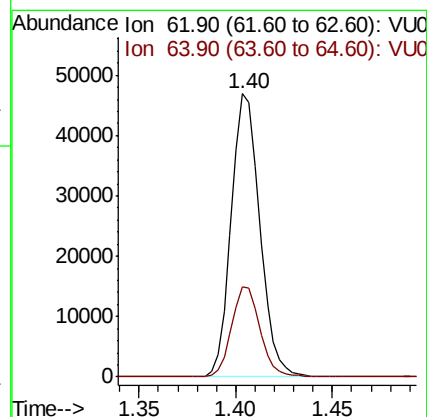
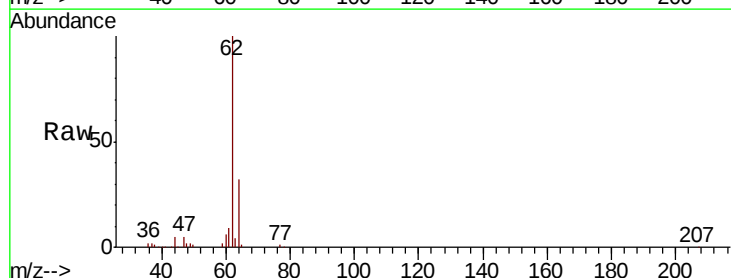
Acq: 27 Jul 2018 23:07

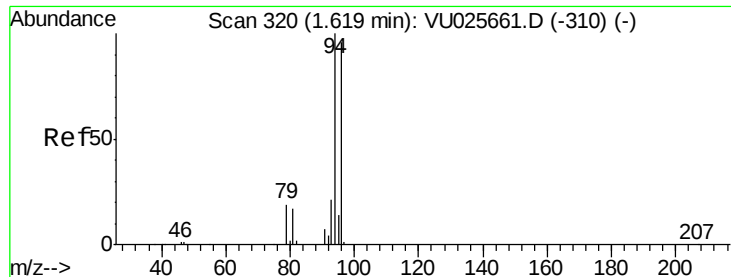
Tgt Ion: 62 Resp: 48139

Ion Ratio Lower Upper

62 100

64 31.6 25.4 38.0





#5

Bromomethane

Concen: 22.51 ug/l

RT: 1.63 min Scan# 322

Delta R.T. 0.01 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

Instrument :

MSVOA_U

ClientSampleId :

VU0727WBSD02

Tot Ion: 94 Resp: 25139

Ion Ratio Lower Upper

94 100

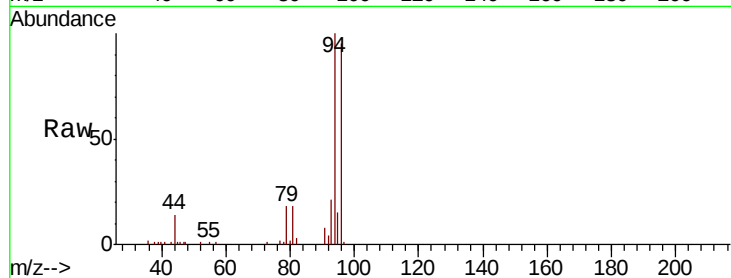
96 95.1 75.0 112.4

Manual Integrations

APPROVED

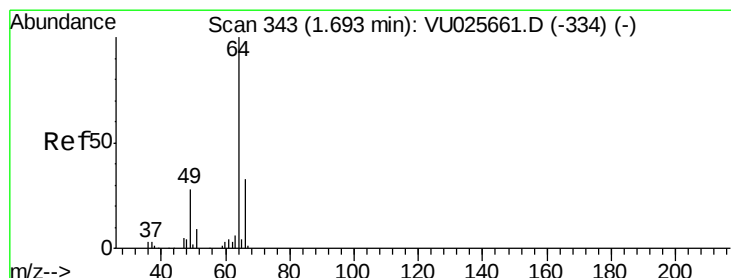
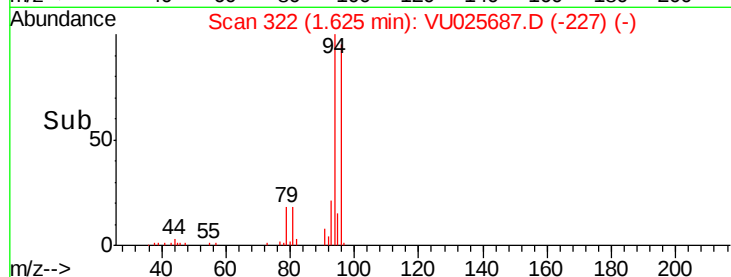
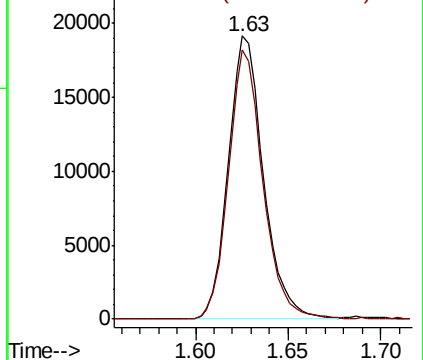
MMDadoda

7/31/2018 3:49:58 PM



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: 20.17 ug/l

RT: 1.70 min Scan# 345

Delta R.T. 0.01 min

Lab File: VU025687.D

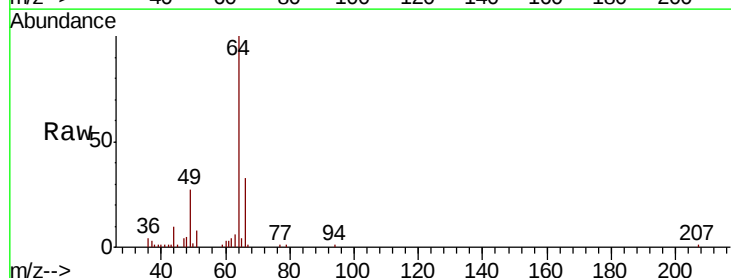
Acq: 27 Jul 2018 23:07

Tgt Ion: 64 Resp: 26968

Ion Ratio Lower Upper

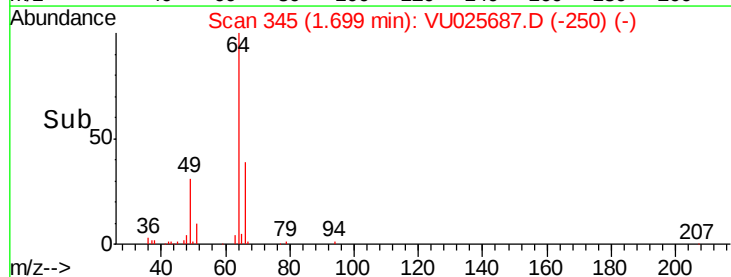
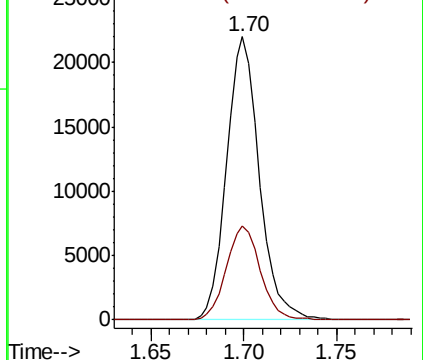
64 100

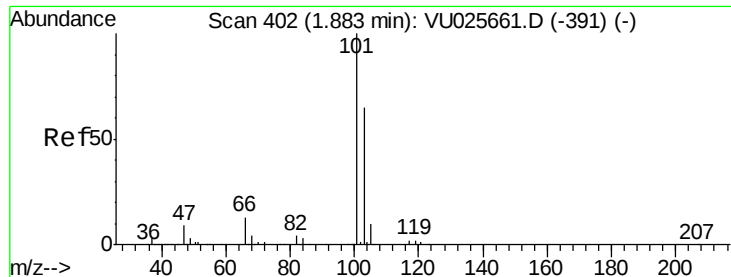
66 33.3 25.0 37.4



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0





#7

Trichlorofluoromethane

Concen: 21.08 ug/l

RT: 1.89 min Scan# 403

Delta R.T. 0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

Instrument :

MSVOA_U

ClientSampleId :

VU0727WBSD02

Tot Ion:101 Resp: 69703

Ion Ratio Lower Upper

101 100

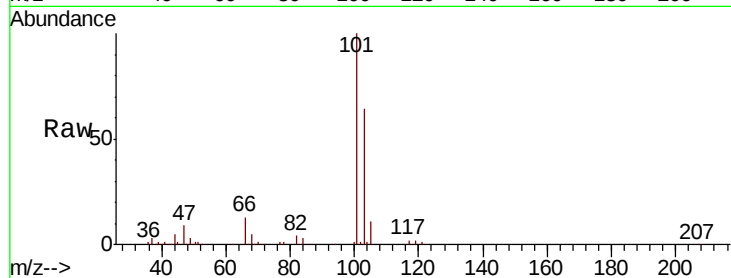
103 64.0 52.2 78.2

Manual Integrations

APPROVED

MMDadoda

7/31/2018 3:49:58 PM



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

1.89

50000

40000

30000

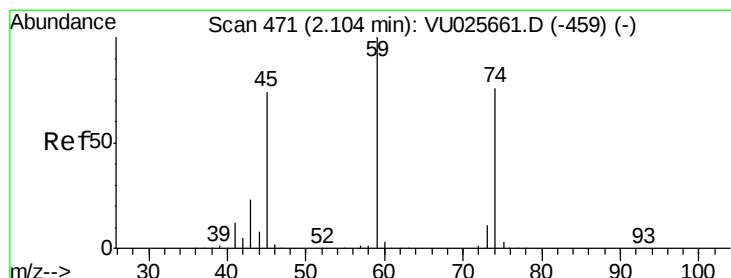
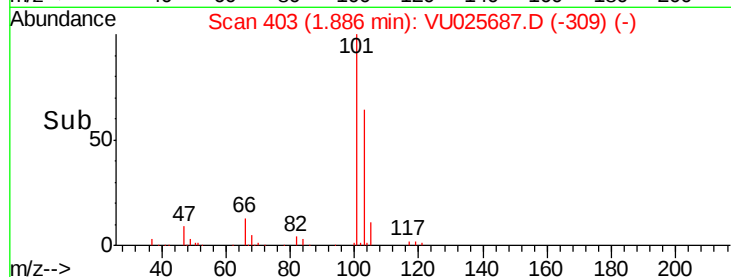
20000

10000

0

Time-->

1.85 1.90 1.95



#8

Diethyl Ether

Concen: 20.08 ug/l

RT: 2.10 min Scan# 471

Delta R.T. 0.00 min

Lab File: VU025687.D

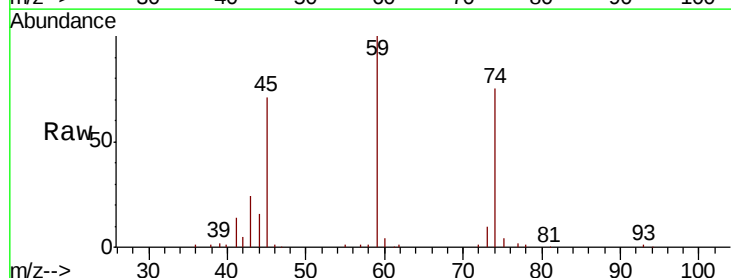
Acq: 27 Jul 2018 23:07

Tgt Ion: 74 Resp: 24018

Ion Ratio Lower Upper

74 100

45 97.6 48.3 144.9



Abundance Ion 74.00 (73.70 to 74.70): VU0

Ion 45.00 (44.70 to 45.70): VU0

2.10

20000

15000

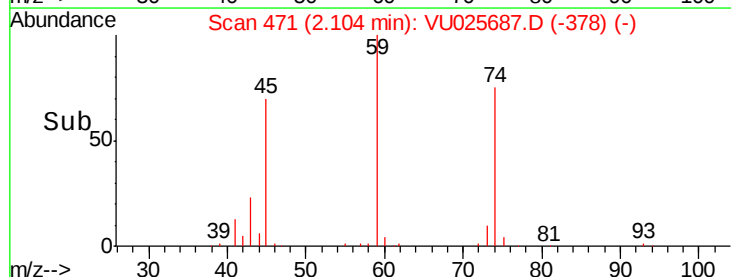
10000

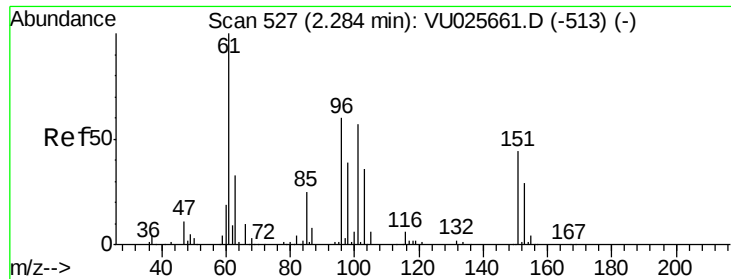
5000

0

Time-->

2.05 2.10 2.15





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.03 ug/l

RT: 2.29 min Scan# 528

Delta R.T. 0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

Instrument :

MSVOA_U

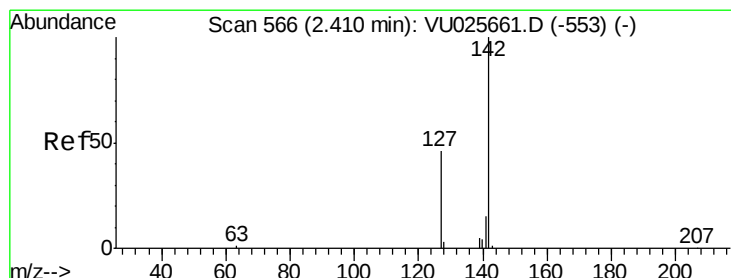
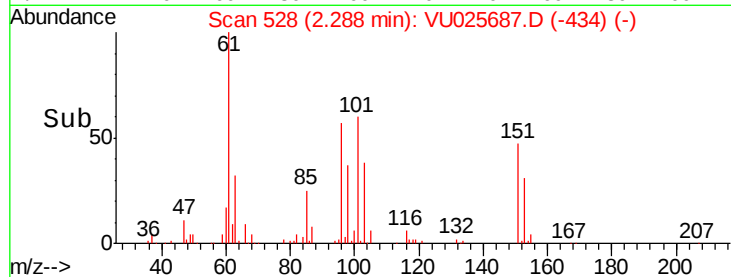
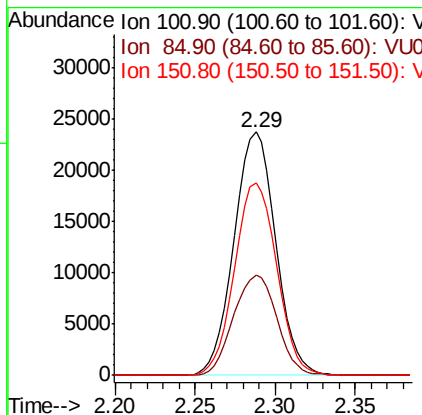
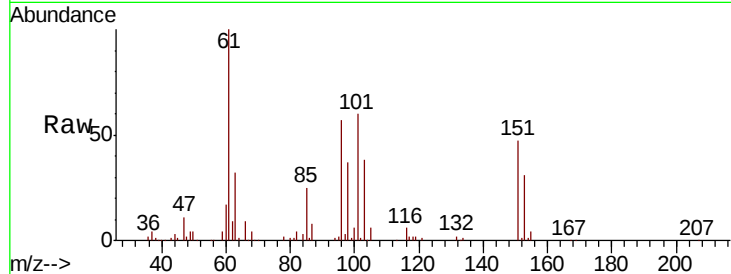
ClientSampleId :

VU0727WBSD02

Tot Ion:	101	Resp:	42148
Ion Ratio	Lower	Upper	
101	100		
85	42.8	36.0	54.0
151	79.8	65.6	98.4

Manual Integrations
APPROVED

MMDadoda
7/31/2018 3:49:58 PM



#10

Methyl Iodide

Concen: 23.38 ug/l

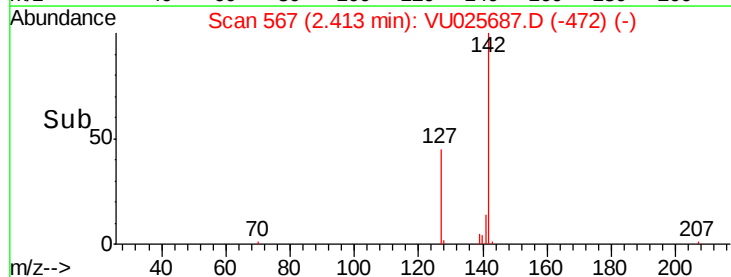
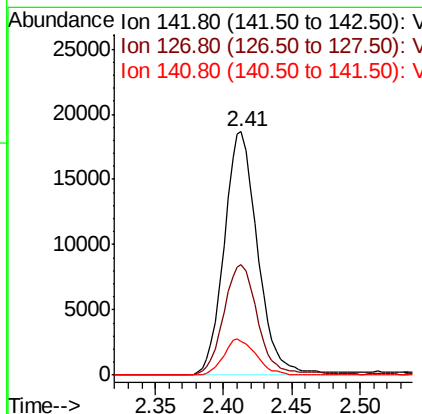
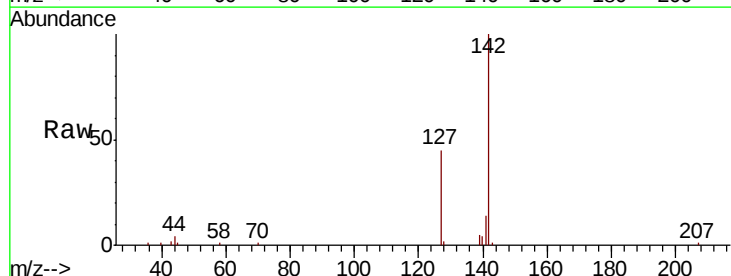
RT: 2.41 min Scan# 567

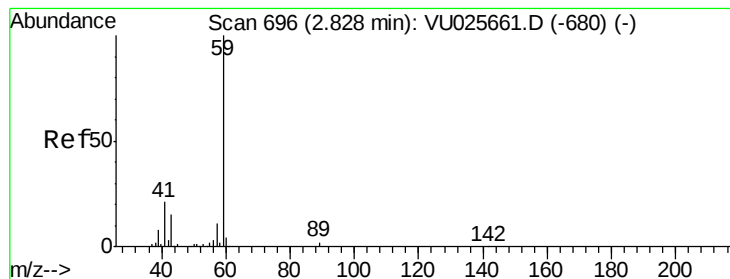
Delta R.T. 0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

Tgt Ion:	142	Resp:	31853
Ion Ratio	Lower	Upper	
142	100		
127	45.7	36.5	54.7
141	14.3	11.4	17.2





#11

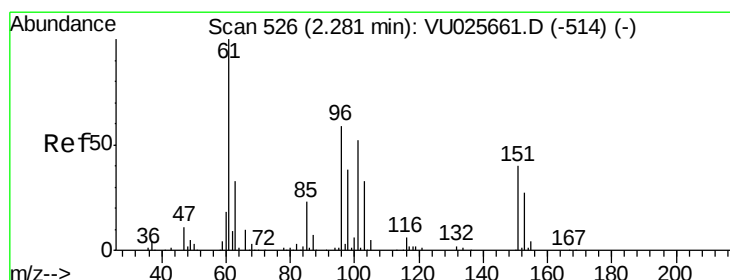
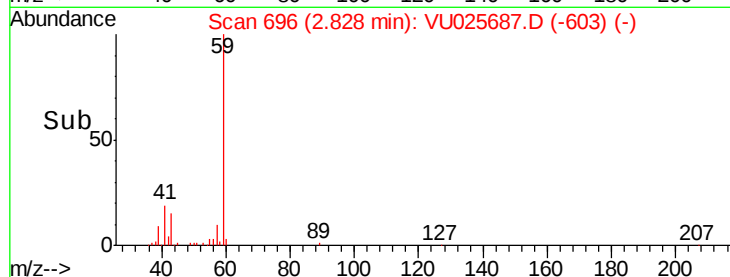
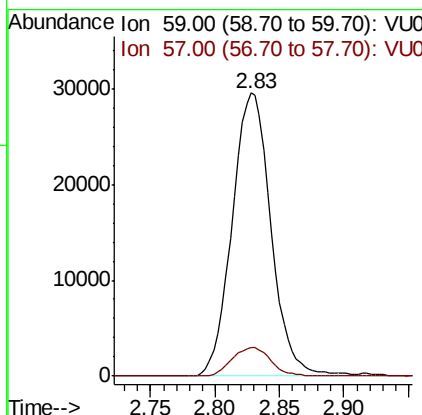
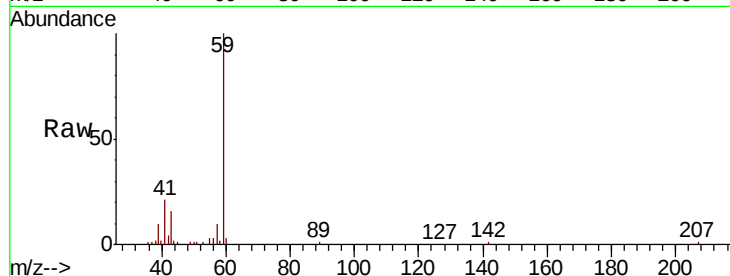
Tert butyl alcohol
Concen: 107.62 ug/l
RT: 2.83 min Scan# 696
Delta R.T. 0.00 min
Lab File: VU025687.D
Acq: 27 Jul 2018 23:07

Instrument :
MSVOA_U
ClientSampleId :
VU0727WBSD02

Tot Ion	59	Resp	61756
Ion Ratio	100	Lower	Upper
57	10.1	8.2	12.2

Manual Integrations
APPROVED

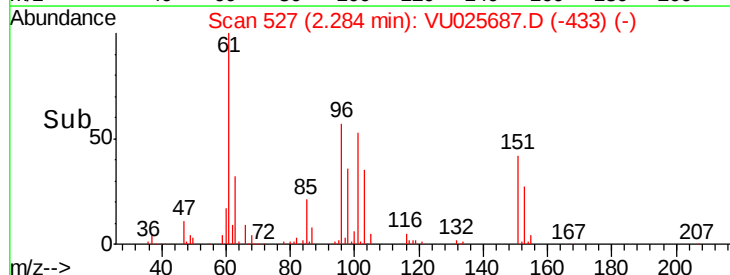
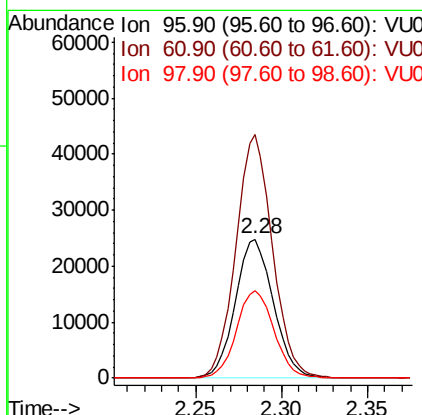
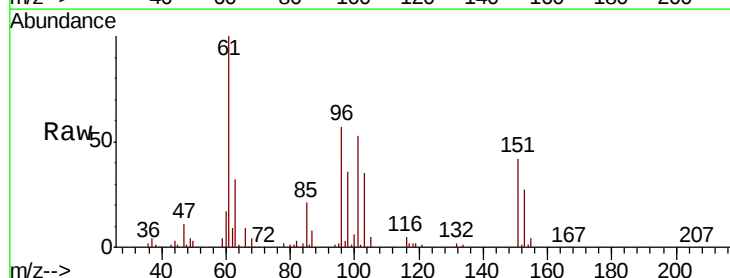
MMDadoda
7/31/2018 3:49:58 PM

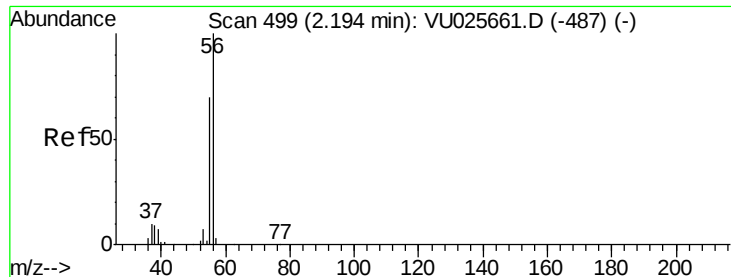


#12

1,1-Dichloroethene
Concen: 21.15 ug/l
RT: 2.28 min Scan# 527
Delta R.T. 0.00 min
Lab File: VU025687.D
Acq: 27 Jul 2018 23:07

Tgt Ion	96	Resp	38200
Ion Ratio	100	Lower	Upper
61	175.2	140.2	210.4
98	62.7	49.3	73.9





#13

Acrolein

Concen: 83.94 ug/l

RT: 2.19 min Scan# 499

Delta R.T. 0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

Instrument :

MSVOA_U

ClientSampleId :

VU0727WBSD02

Tot Ion: 56 Resp: 17725

Ion Ratio Lower Upper

56 100

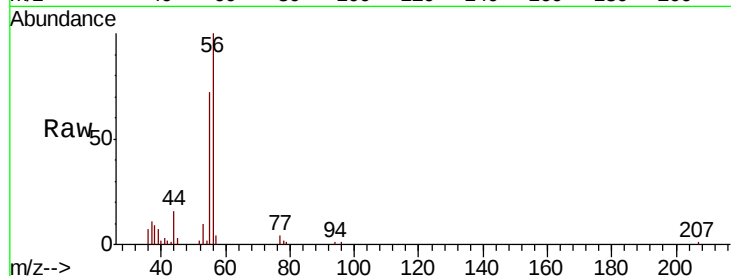
55 72.2 57.2 85.8

Manual Integrations

APPROVED

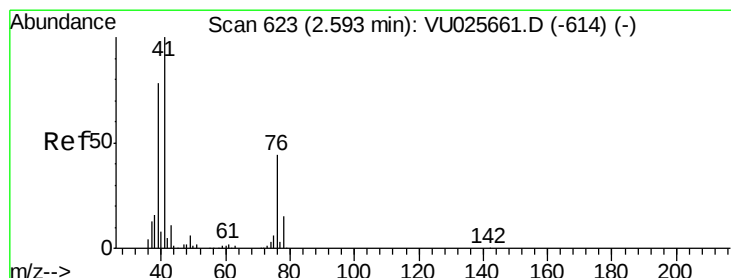
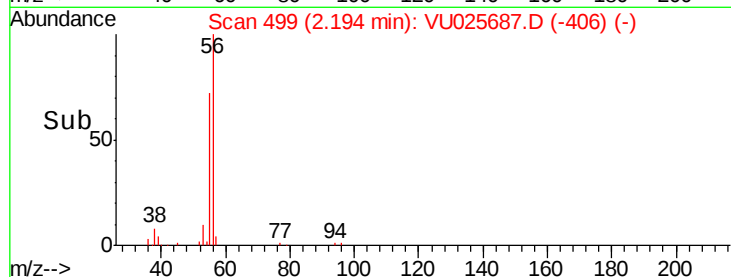
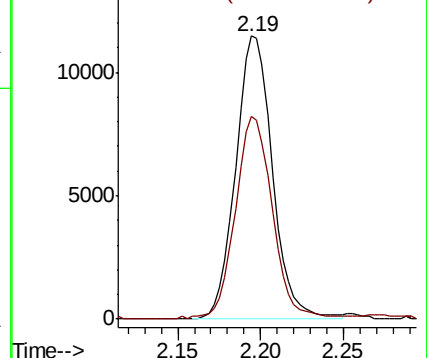
MMDadoda

7/31/2018 3:49:58 PM



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0



#14

Allyl chloride

Concen: 19.48 ug/l

RT: 2.59 min Scan# 623

Delta R.T. 0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

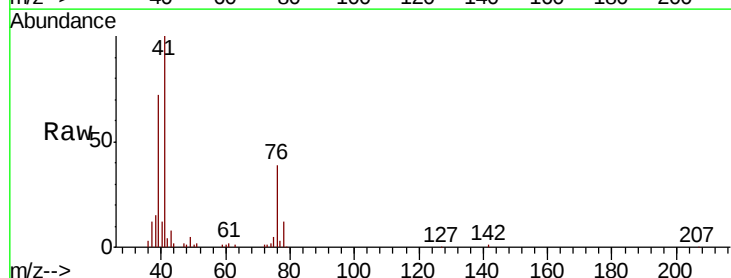
Tgt Ion: 41 Resp: 63239

Ion Ratio Lower Upper

41 100

39 73.7 60.6 91.0

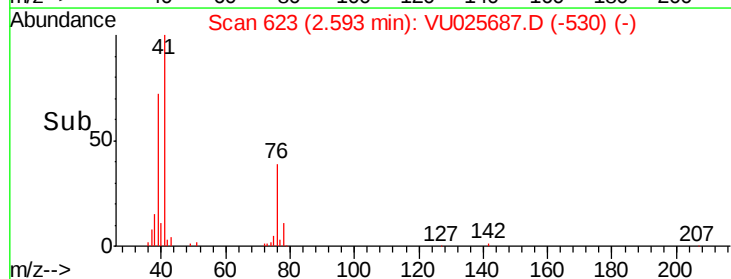
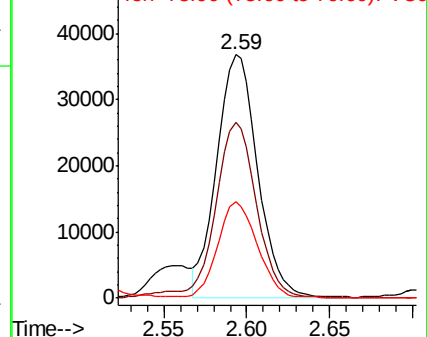
76 38.4 30.5 45.7

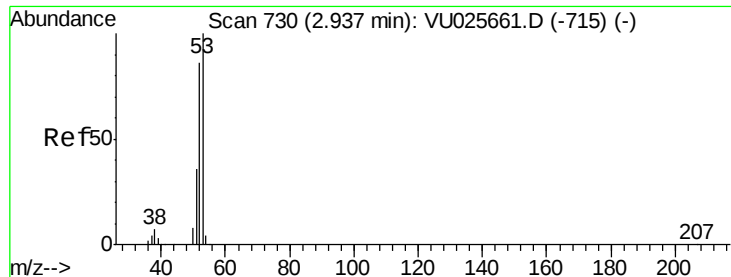


Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 75.90 (75.60 to 76.60): VU0





#15

Acrylonitrile

Concen: 104.54 ug/l

RT: 2.94 min Scan# 730

Delta R.T. 0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

Instrument :

MSVOA_U

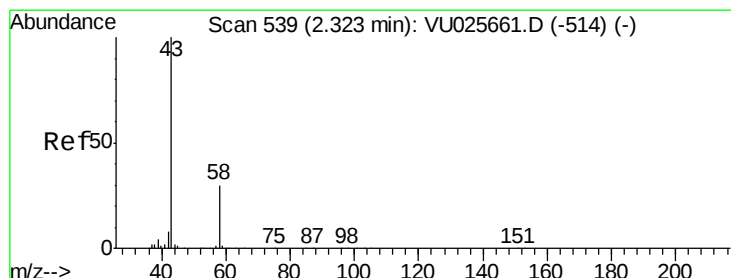
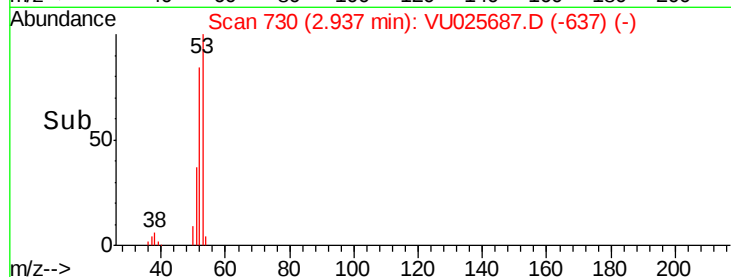
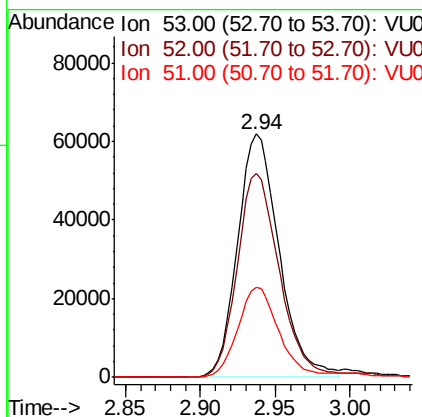
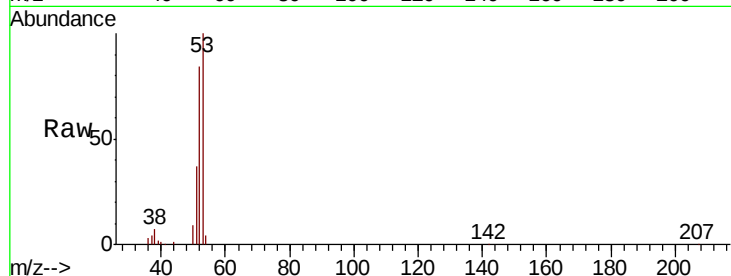
ClientSampleId :

VU0727WBSD02

Tot Ion:	53	Resp:	119769
Ion	Ratio	Lower	Upper
53	100		
52	86.0	66.6	99.8
51	36.3	29.4	44.2

Manual Integrations
APPROVED

MMDadoda
7/31/2018 3:49:58 PM



#16

Acetone

Concen: 89.41 ug/l

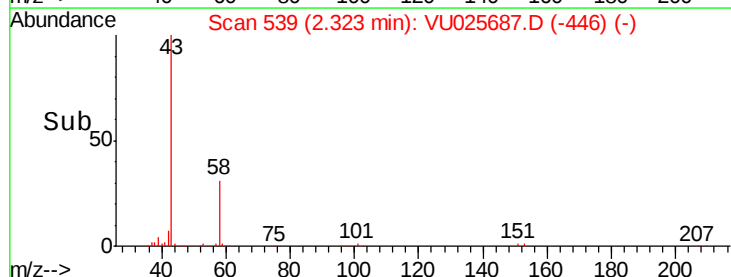
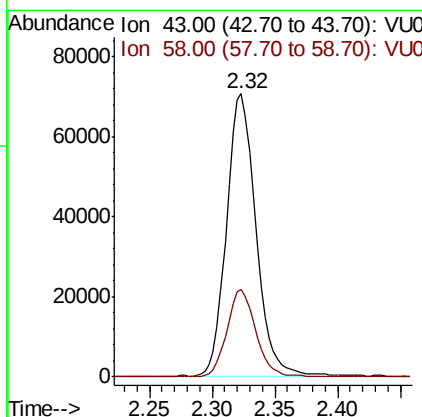
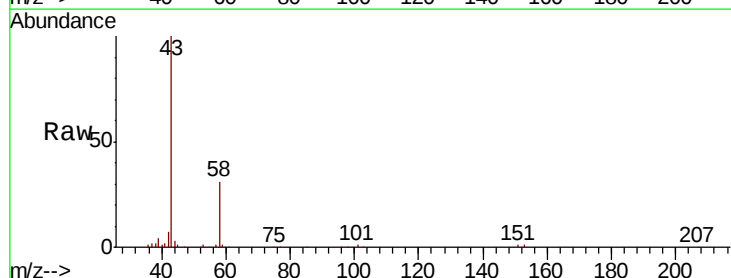
RT: 2.32 min Scan# 539

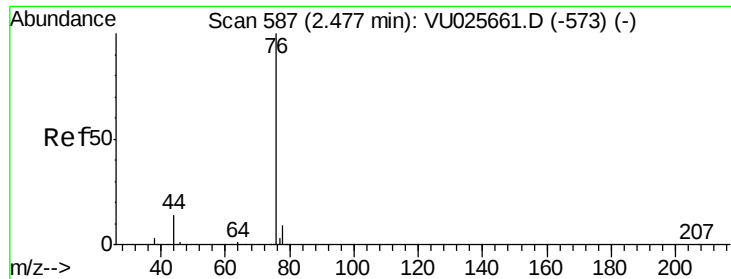
Delta R.T. 0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

Tgt Ion:	43	Resp:	114243
Ion	Ratio	Lower	Upper
43	100		
58	31.1	23.1	34.7





#17

Carbon Disulfide

Concen: 20.09 ug/l

RT: 2.48 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

Instrument :

MSVOA_U

ClientSampleId :

VU0727WBSD02

Tot Ion: 76 Resp: 117417

Ion Ratio Lower Upper

76 100

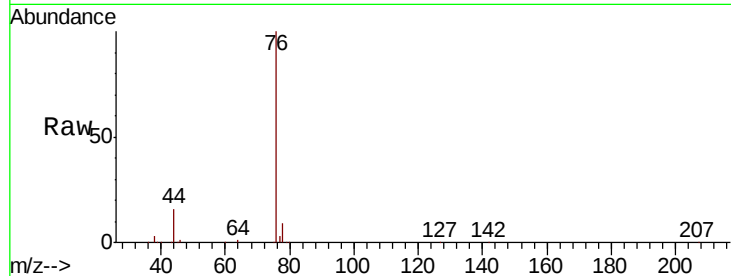
78 9.4 7.4 11.2

Manual Integrations

APPROVED

MMDadoda

7/31/2018 3:49:58 PM



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0

2.48

80000

60000

40000

20000

0

Time-->

2.40 2.45 2.50 2.55 2.60

2.48

2.48

2.48

2.48

2.48

2.48

2.48

2.48

2.48

2.48

2.48

2.48

2.48

2.48

2.48

2.48

2.48

2.48

2.48

2.48

2.48

2.48

2.48

2.48

2.48

2.48

2.48

2.48

2.48

2.48

2.48

2.48

2.48

2.48

2.48

2.48

2.48

2.48

2.48

2.48

2.48

2.48

2.48

2.48

2.48

2.48

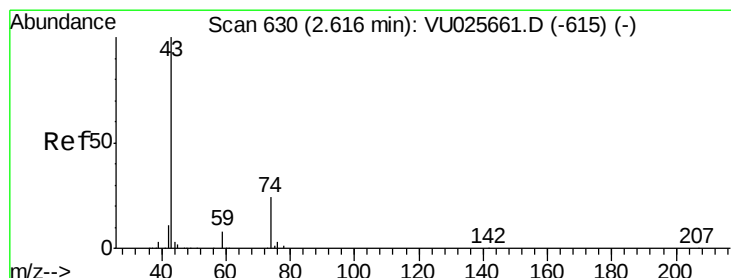
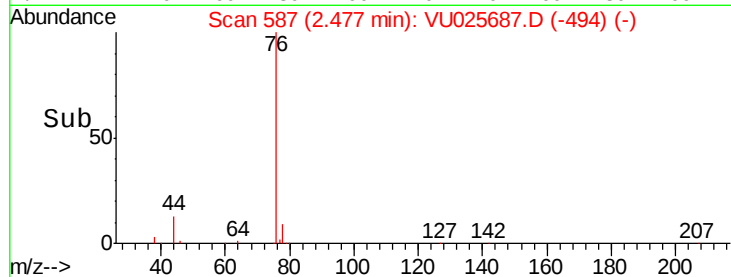
2.48

2.48

2.48

2.48

2.48



#18

Methyl Acetate

Concen: 23.74 ug/l

RT: 2.62 min Scan# 630

Delta R.T. 0.00 min

Lab File: VU025687.D

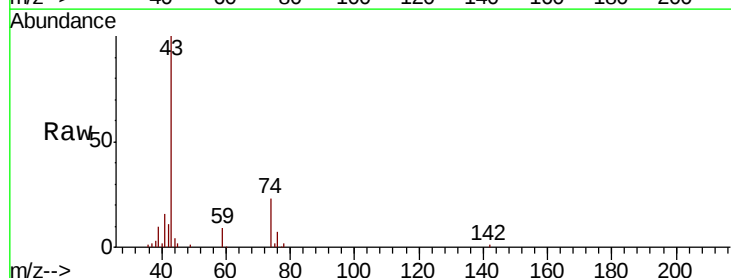
Acq: 27 Jul 2018 23:07

Tgt Ion: 43 Resp: 73021

Ion Ratio Lower Upper

43 100

74 22.8 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

2.62

40000

30000

20000

10000

0

Time-->

2.55 2.60 2.65 2.70

2.62

2.62

2.62

2.62

2.62

2.62

2.62

2.62

2.62

2.62

2.62

2.62

2.62

2.62

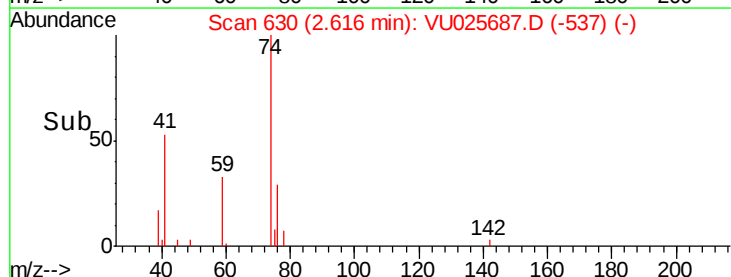
2.62

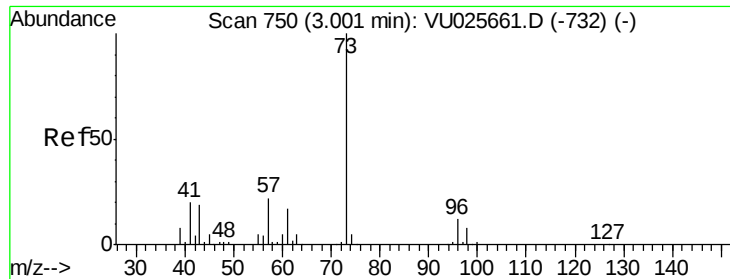
2.62

2.62

2.62

2.62





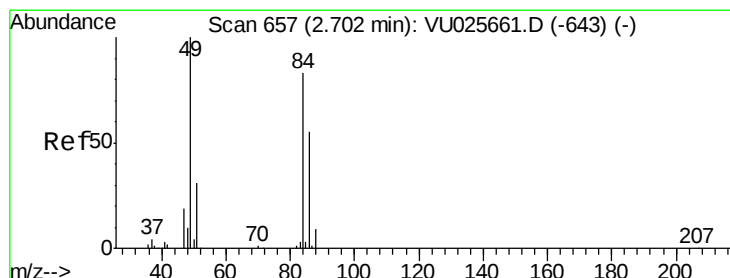
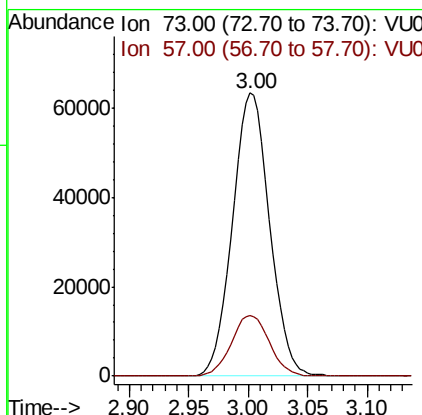
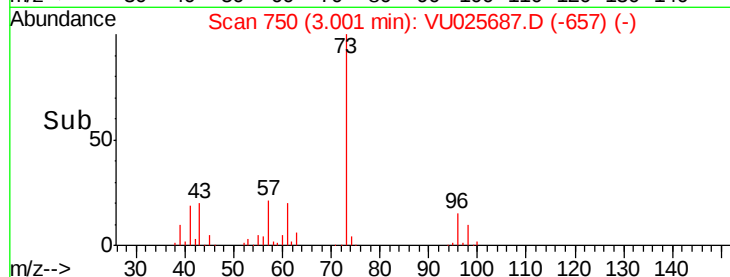
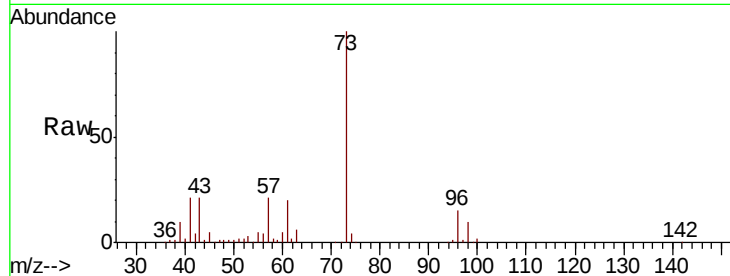
#19
Methyl tert-butyl Ether
Concen: 20.90 ug/l
RT: 3.00 min Scan# 750
Delta R.T. 0.00 min
Lab File: VU025687.D
Acq: 27 Jul 2018 23:07

Instrument :
MSVOA_U
ClientSampleId :
VU0727WBSD02

Tot Ion	Ratio	Lower	Upper
73	100		
57	21.5	17.4	26.2

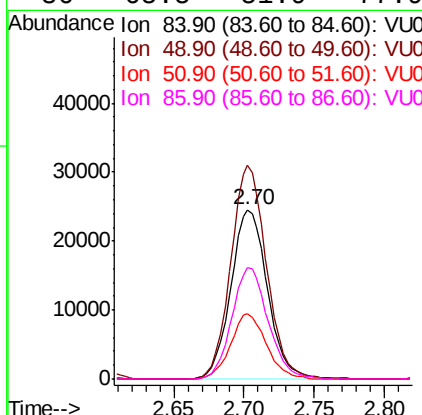
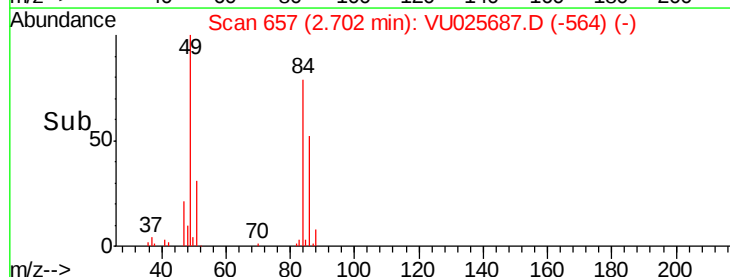
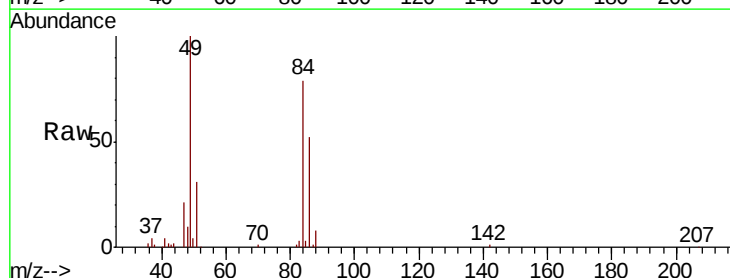
Manual Integrations
APPROVED

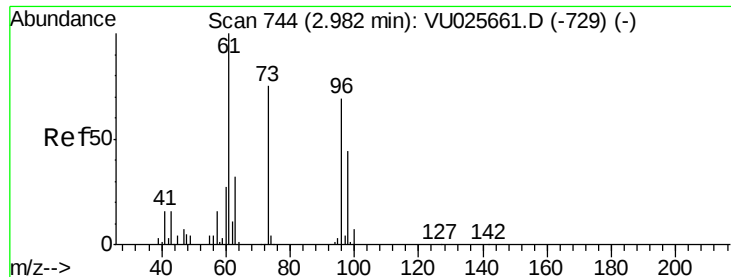
MMDadoda
7/31/2018 3:49:58 PM



#20
Methylene Chloride
Concen: 19.70 ug/l
RT: 2.70 min Scan# 657
Delta R.T. 0.00 min
Lab File: VU025687.D
Acq: 27 Jul 2018 23:07

Tgt Ion	Ratio	Lower	Upper
84	100		
49	126.1	101.8	152.6
51	38.5	30.8	46.2
86	65.5	51.9	77.9





#21

trans-1,2-Dichloroethene

Concen: 20.75 ug/l

RT: 2.99 min Scan# 745

Delta R.T. 0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

Instrument :

MSVOA_U

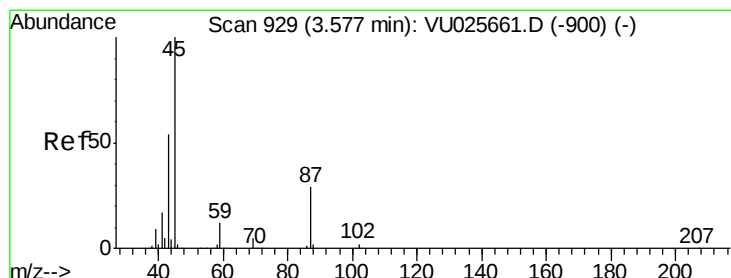
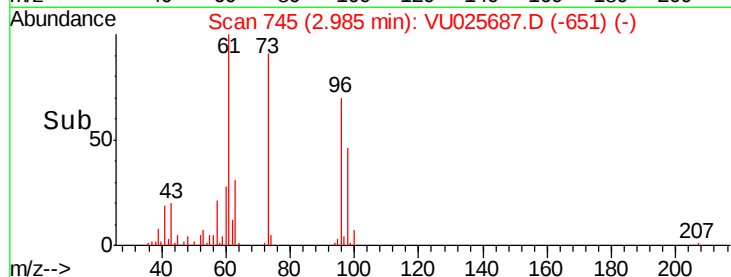
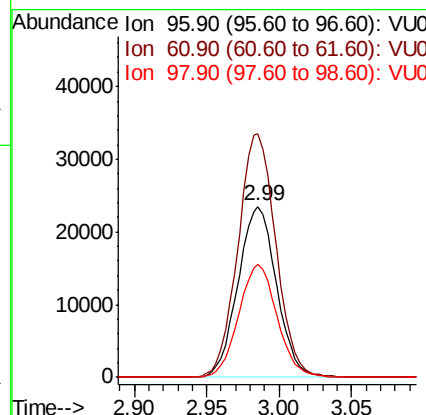
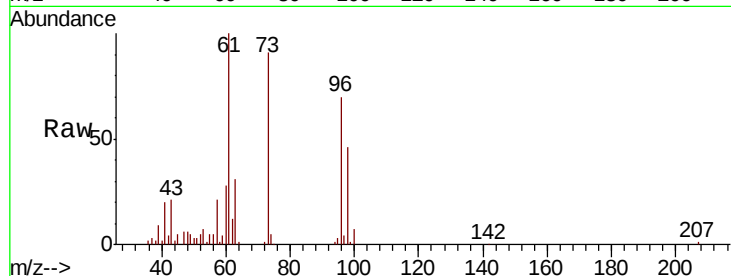
ClientSampleId :

VU0727WBSD02

Tot Ion:	96	Resp:	43325
Ion	Ratio	Lower	Upper
96	100		
61	142.2	114.5	171.7
98	65.9	50.5	75.7

Manual Integrations
APPROVED

MMDadoda
7/31/2018 3:49:58 PM



#22

Diisopropyl ether

Concen: 21.09 ug/l

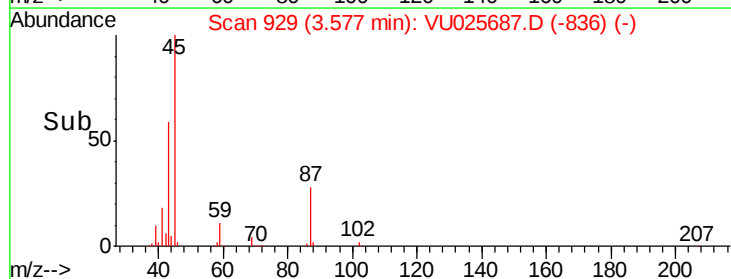
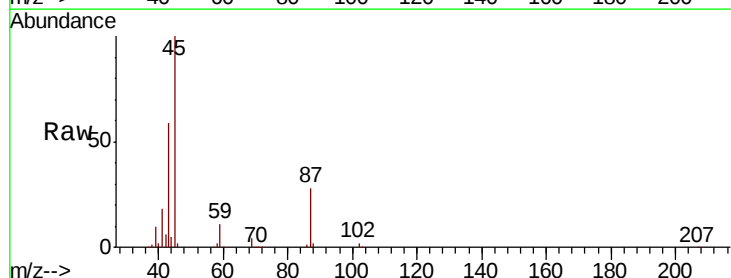
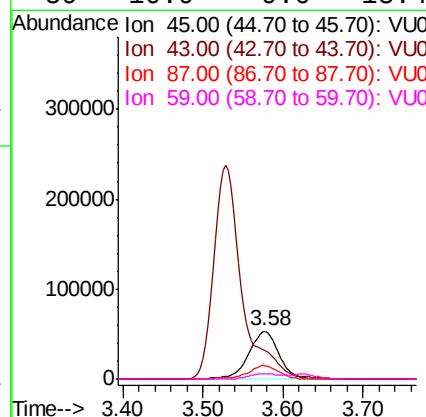
RT: 3.58 min Scan# 929

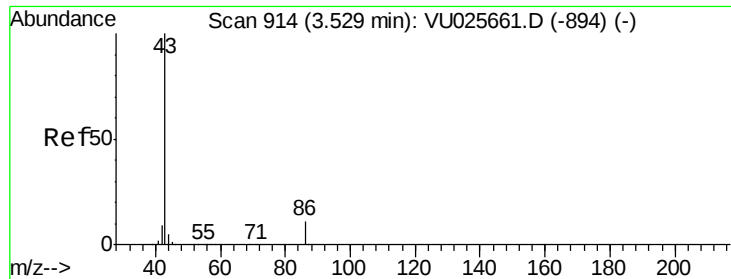
Delta R.T. 0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

Tgt Ion:	45	Resp:	134870
Ion	Ratio	Lower	Upper
45	100		
43	58.6	50.9	76.3
87	28.2	23.8	35.8
59	10.9	9.0	13.4





#23

Vinyl Acetate

Concen: 104.01 ug/l

RT: 3.53 min Scan# 914

Delta R.T. 0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

Tot Ion: 43 Resp: 579738

Ion Ratio Lower Upper

43 100

86 10.3 8.2 12.2

Instrument :

MSVOA_U

ClientSampleId :

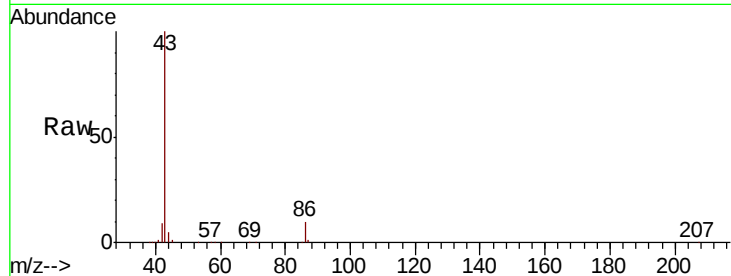
VU0727WBSD02

Manual Integrations

APPROVED

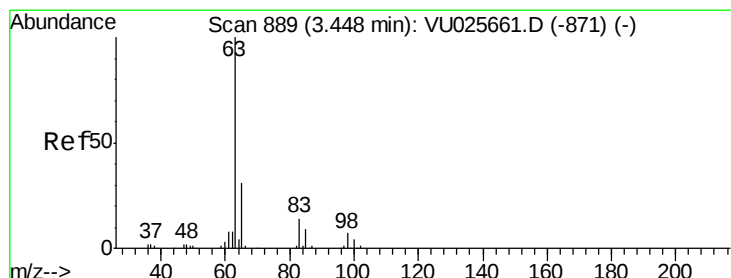
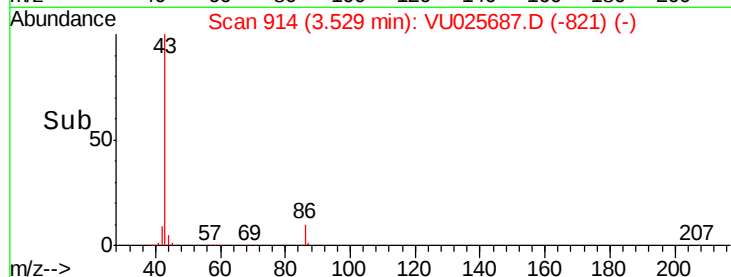
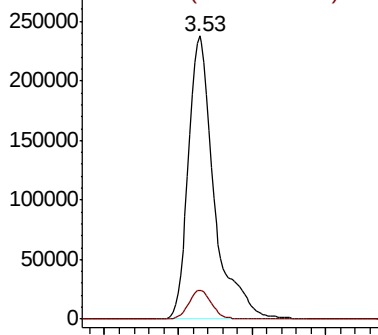
MMDadoda

7/31/2018 3:49:58 PM



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 86.00 (85.70 to 86.70): VU0



#24

1,1-Dichloroethane

Concen: 20.75 ug/l

RT: 3.45 min Scan# 889

Delta R.T. 0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

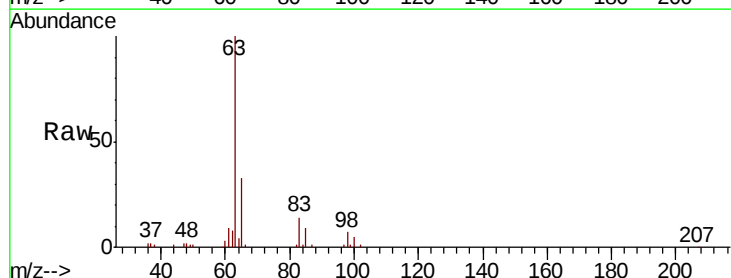
Tgt Ion: 63 Resp: 79682

Ion Ratio Lower Upper

63 100

98 7.0 3.4 10.1

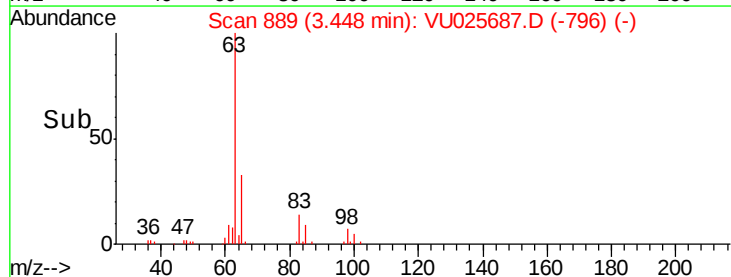
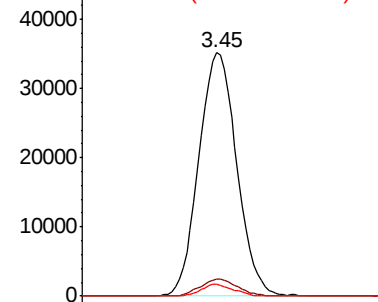
100 4.7 2.0 6.0

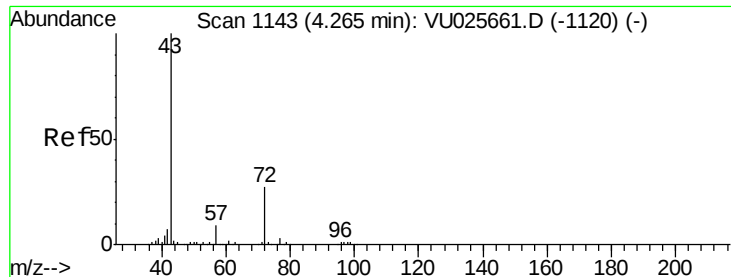


Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

Ion 99.90 (99.60 to 100.60): VU0





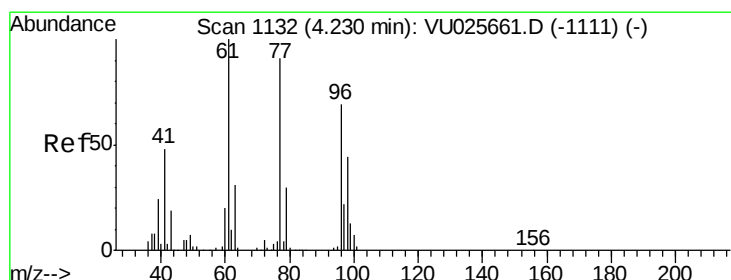
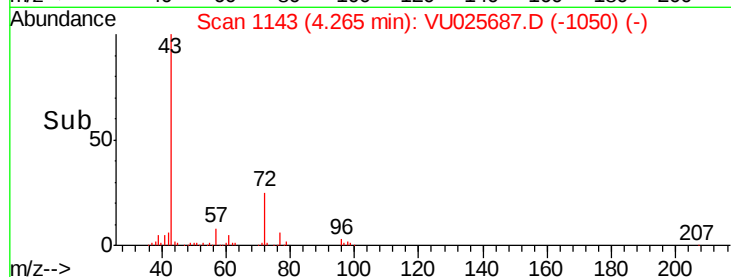
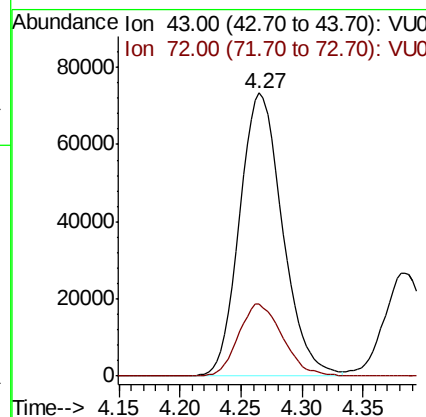
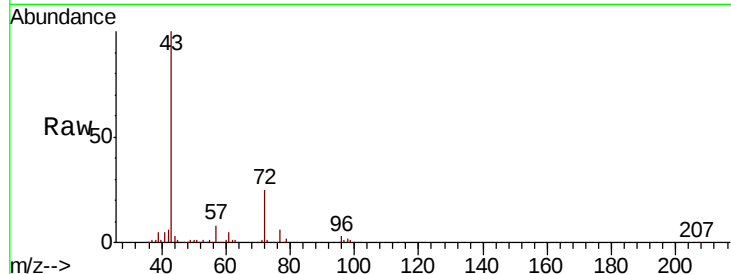
#25
2-Butanone
Concen: 102.12 ug/l
RT: 4.27 min Scan# 1143
Delta R.T. 0.00 min
Lab File: VU025687.D
Acq: 27 Jul 2018 23:07

Instrument :
MSVOA_U
ClientSampleId :
VU0727WBSD02

Tot Ion: 43 Resp: 177630
Ion Ratio Lower Upper
43 100
72 25.2 21.0 31.4

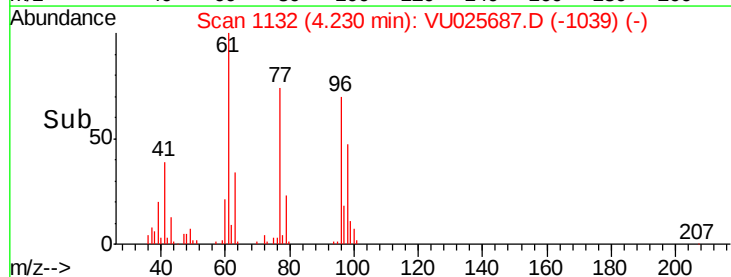
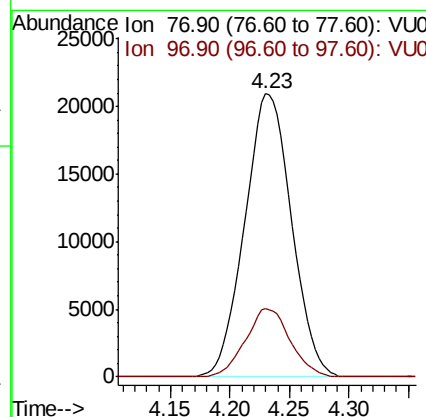
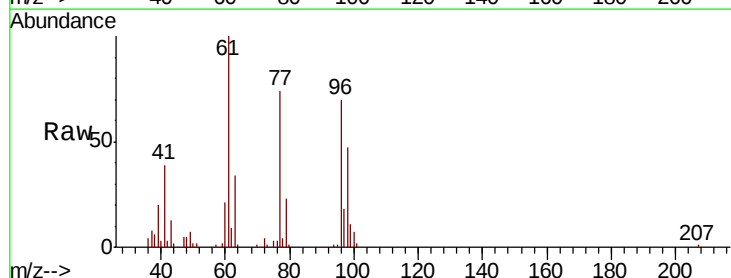
Manual Integrations
APPROVED

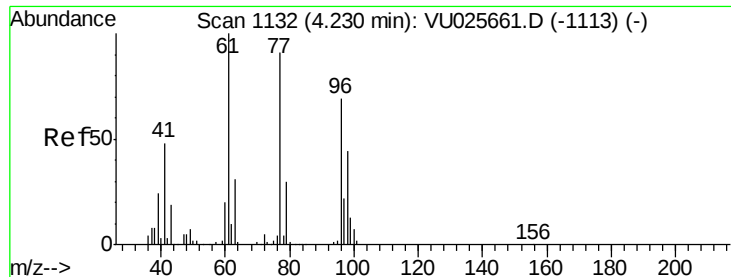
MMDadoda
7/31/2018 3:49:58 PM



#26
2,2-Dichloropropane
Concen: 16.32 ug/l
RT: 4.23 min Scan# 1132
Delta R.T. 0.00 min
Lab File: VU025687.D
Acq: 27 Jul 2018 23:07

Tgt Ion: 77 Resp: 56942
Ion Ratio Lower Upper
77 100
97 23.2 11.2 33.5





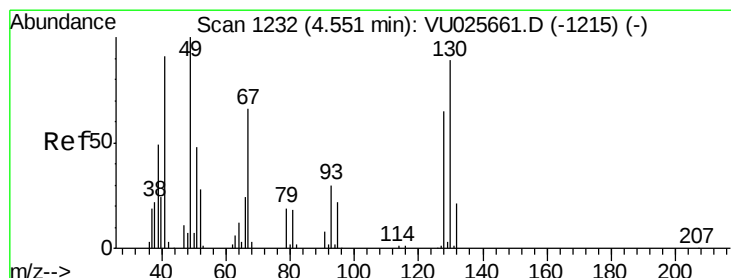
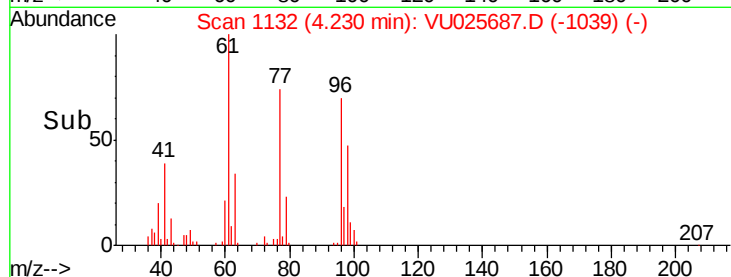
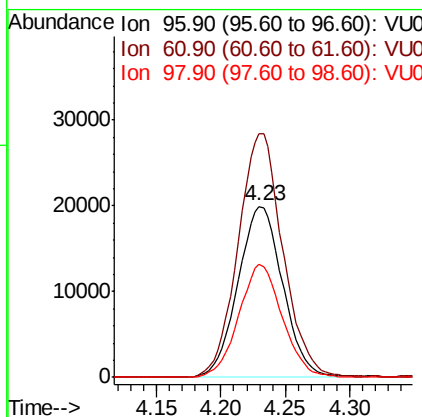
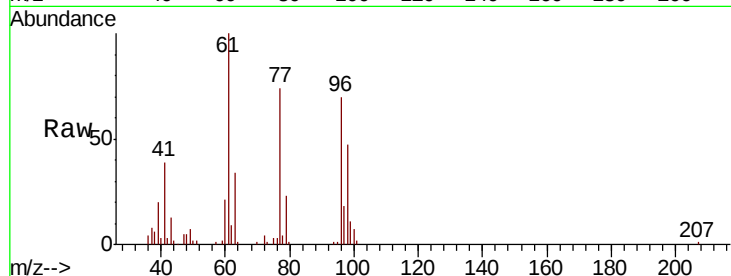
#27
 cis-1,2-Dichloroethene
 Concen: 20.42 ug/l
 RT: 4.23 min Scan# 1132
 Delta R.T. 0.00 min
 Lab File: VU025687.D
 Acq: 27 Jul 2018 23:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0727WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	143.2	0.0	299.8	
98	64.4	0.0	128.6	

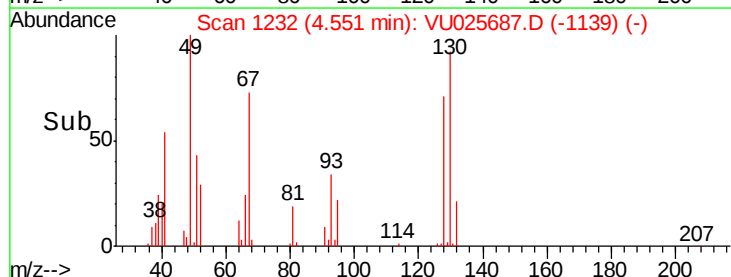
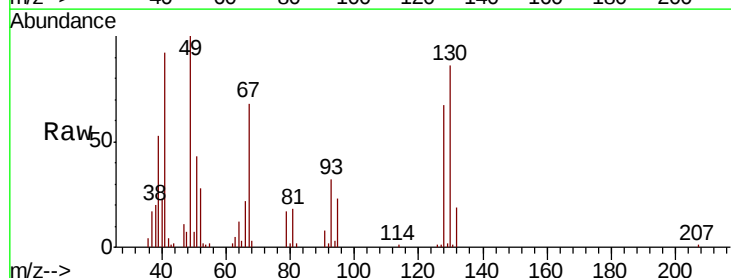
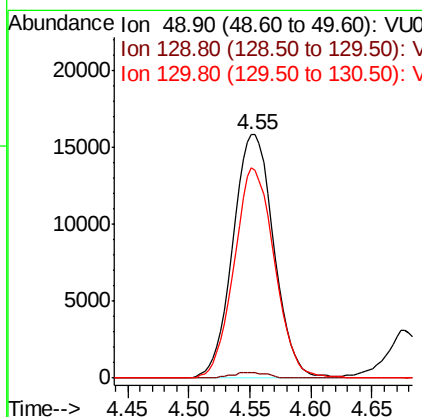
Manual Integrations
 APPROVED

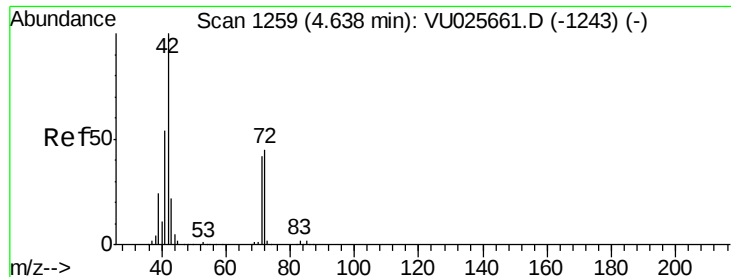
MMDadoda
 7/31/2018 3:49:58 PM



#28
 Bromochloromethane
 Concen: 21.48 ug/l
 RT: 4.55 min Scan# 1232
 Delta R.T. 0.00 min
 Lab File: VU025687.D
 Acq: 27 Jul 2018 23:07

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	2.0	0.0	4.6	
130	84.9	68.6	102.8	





#29

Tetrahydrofuran

Concen: 107.66 ug/l

RT: 4.64 min Scan# 1260

Delta R.T. 0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

Instrument :

MSVOA_U

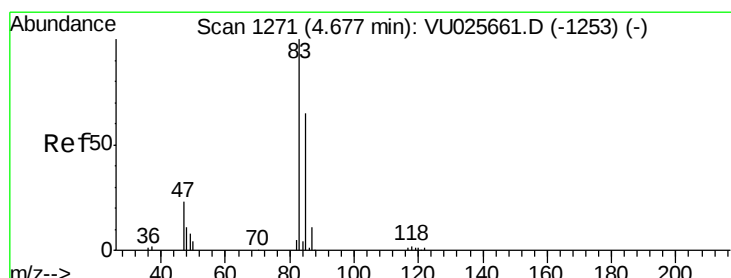
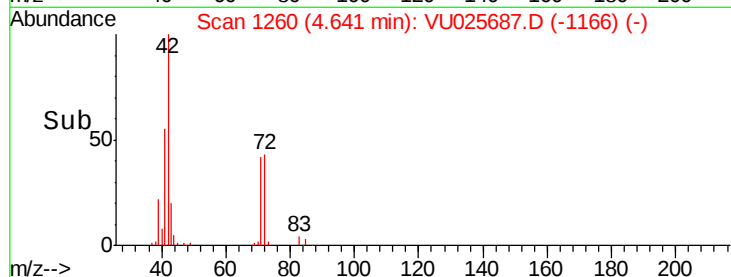
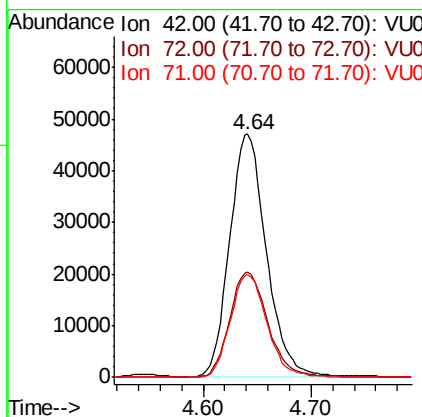
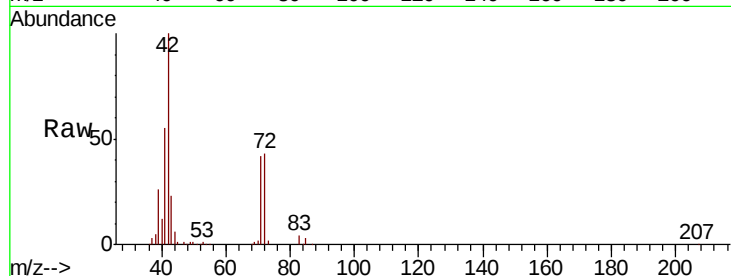
ClientSampleId :

VU0727WBSD02

Tot Ion:	42	Resp:	112200
Ion	Ratio	Lower	Upper
42	100		
72	44.9	36.7	55.1
71	42.0	33.9	50.9

Manual Integrations
APPROVED

MMDadoda
7/31/2018 3:49:58 PM



#30

Chloroform

Concen: 20.28 ug/l

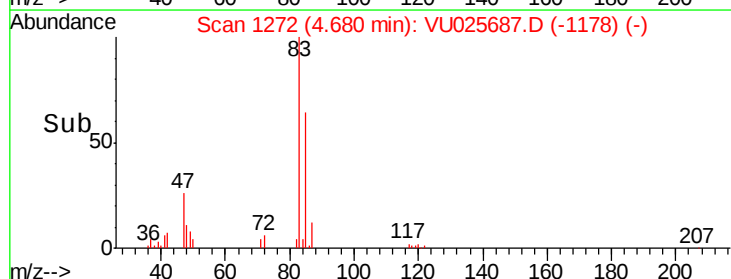
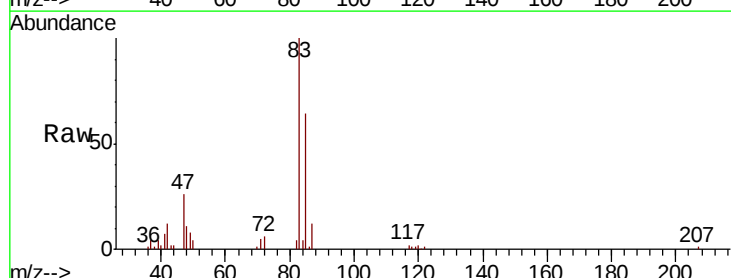
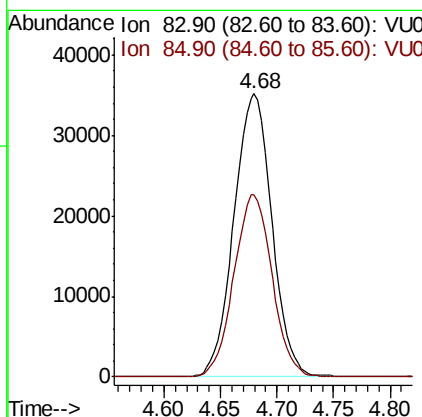
RT: 4.68 min Scan# 1272

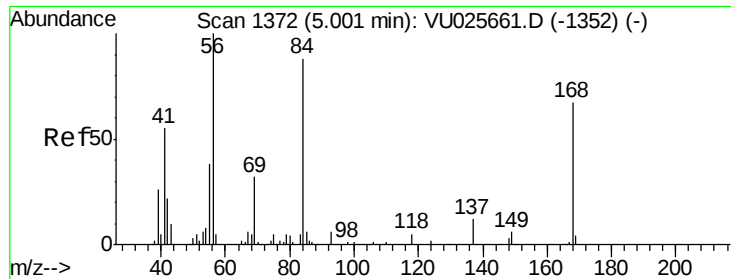
Delta R.T. 0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

Tgt Ion:	83	Resp:	82184
Ion	Ratio	Lower	Upper
83	100		
85	64.2	51.5	77.3





#31

Cyclohexane

Concen: 20.46 ug/l

RT: 5.00 min Scan# 1372

Delta R.T. 0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

Instrument :

MSVOA_U

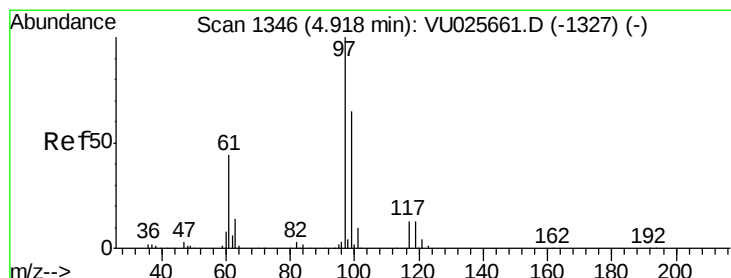
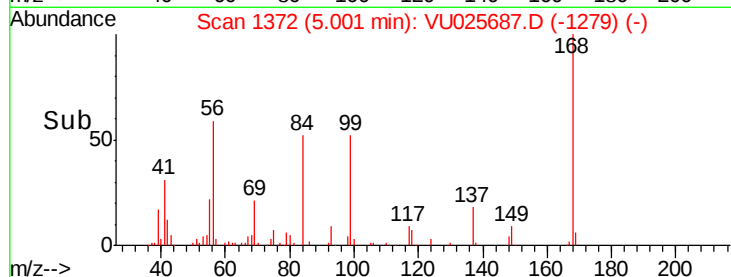
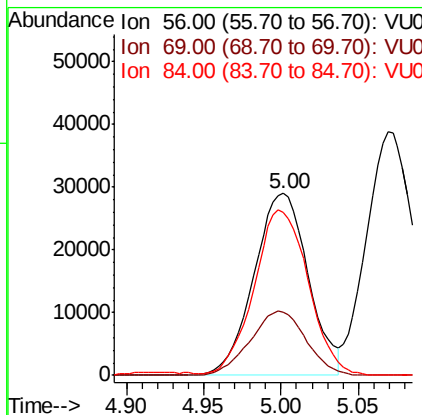
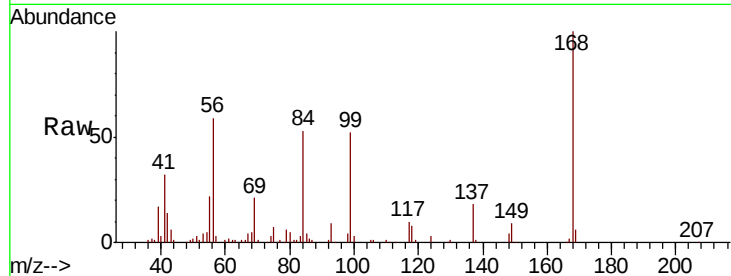
ClientSampleID :

VU0727WBSD02

Tot Ion:	56	Resp:	71003
Ion	Ratio	Lower	Upper
56	100		
69	34.8	26.8	40.2
84	88.5	69.7	104.5

Manual Integrations
APPROVED

MMDadoda
7/31/2018 3:49:58 PM



#32

1,1,1-Trichloroethane

Concen: 20.53 ug/l

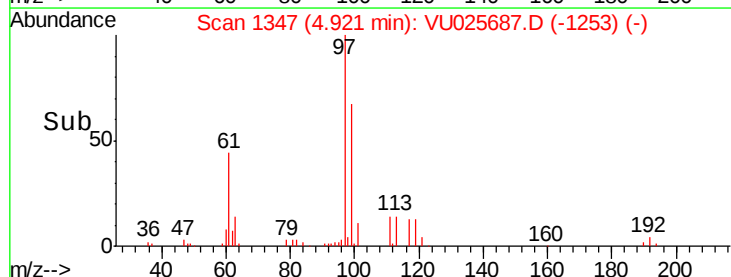
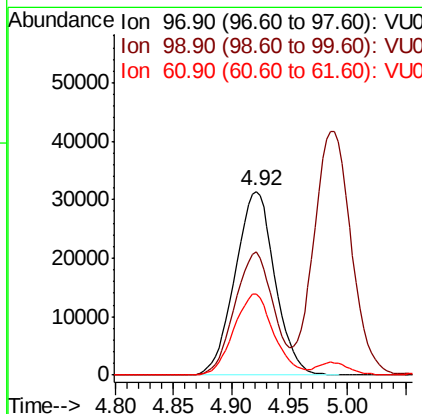
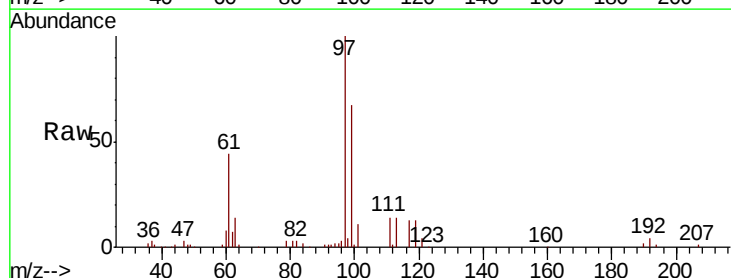
RT: 4.92 min Scan# 1347

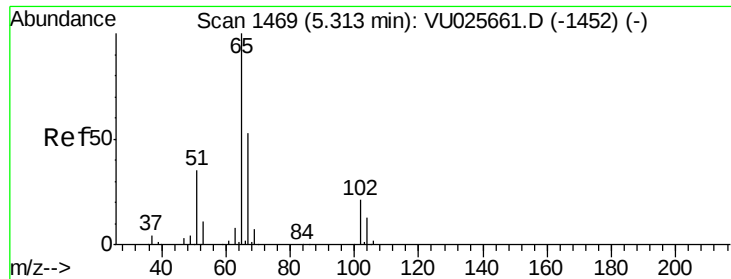
Delta R.T. 0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

Tgt Ion:	97	Resp:	74924
Ion	Ratio	Lower	Upper
97	100		
99	64.8	50.8	76.2
61	44.3	35.2	52.8





#33

1,2-Dichloroethane-d4

Concen: 51.27 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

Instrument :

MSVOA_U

ClientSampleId :

VU0727WBSD02

Tot Ion: 65 Resp: 134386

Ion Ratio Lower Upper

65 100

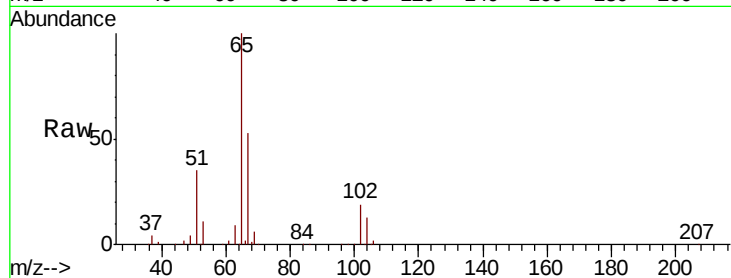
67 52.2 0.0 103.6

Manual Integrations

APPROVED

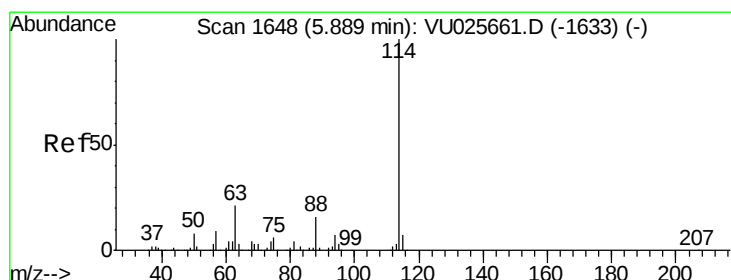
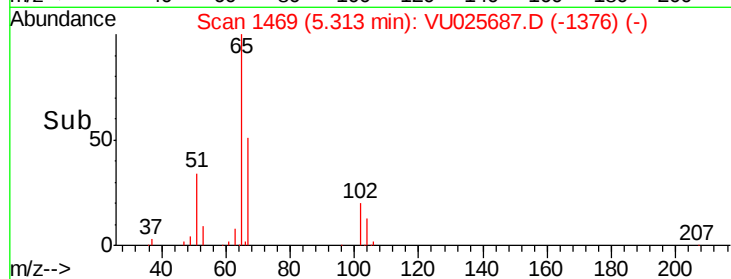
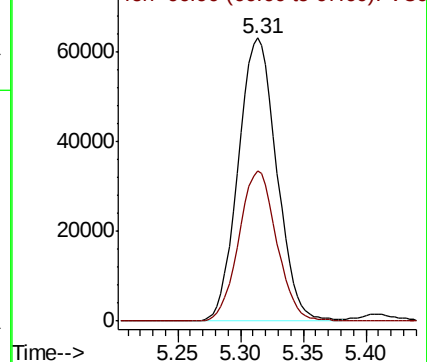
MMDadoda

7/31/2018 3:49:58 PM



Abundance Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.89 min Scan# 1649

Delta R.T. 0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

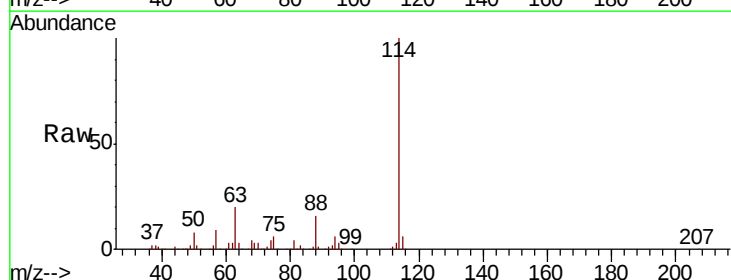
Tgt Ion: 114 Resp: 253591

Ion Ratio Lower Upper

114 100

63 20.2 0.0 41.6

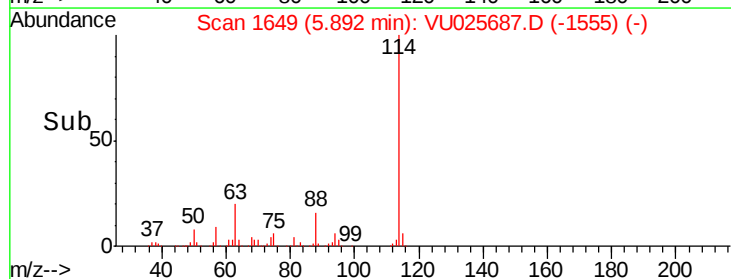
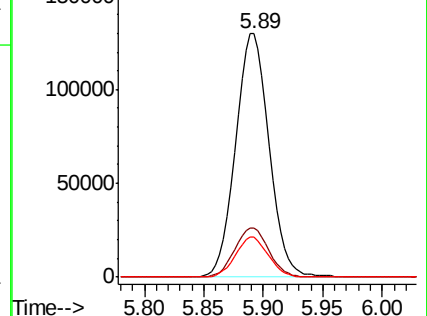
88 16.2 0.0 32.4

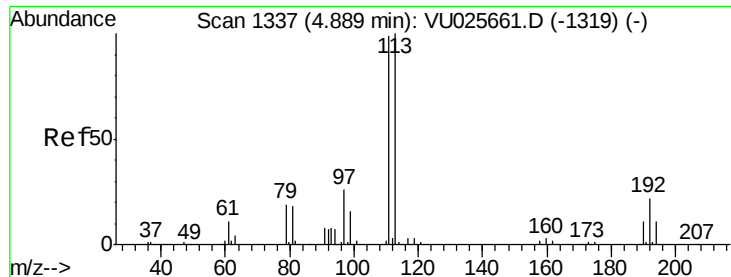


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0





#35

Dibromofluoromethane

Concen: 50.10 ug/l

RT: 4.89 min Scan# 1336

Delta R.T. -0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

Instrument :

MSVOA_U

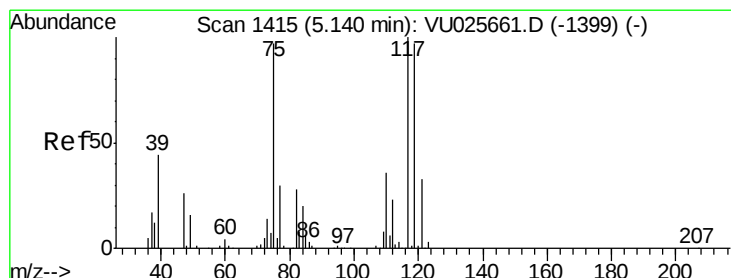
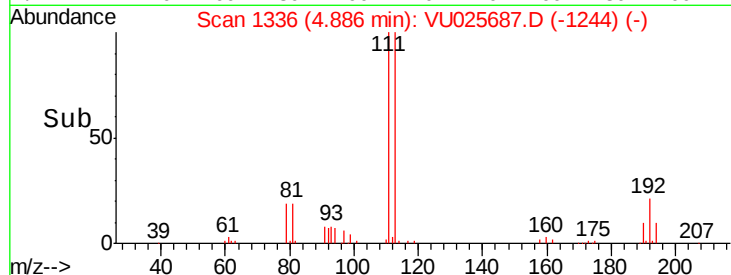
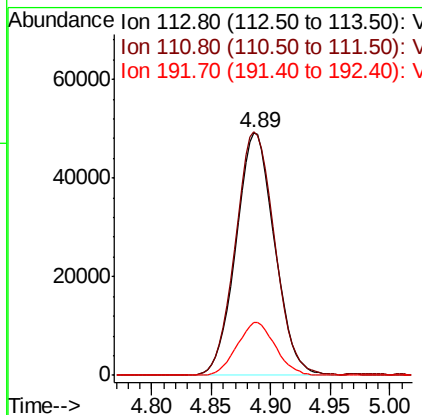
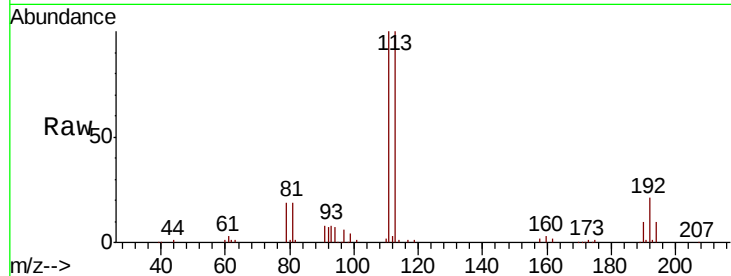
ClientSampleId :

VU0727WBSD02

Tot Ion:	113	Resp:	110493
Ion Ratio	Lower	Upper	
113	100		
111	102.2	81.7	122.5
192	21.6	17.1	25.7

Manual Integrations
APPROVED

MMDadoda
7/31/2018 3:49:58 PM



#36

1,1-Dichloropropene

Concen: 20.60 ug/l

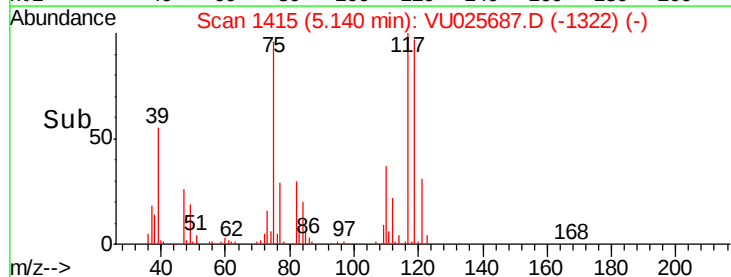
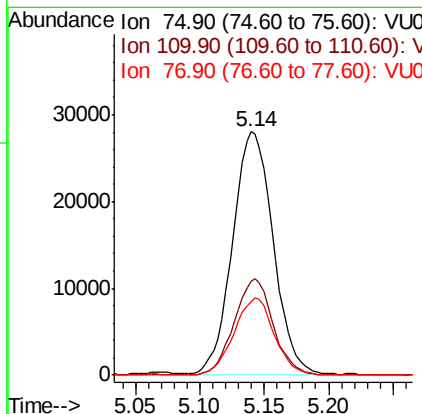
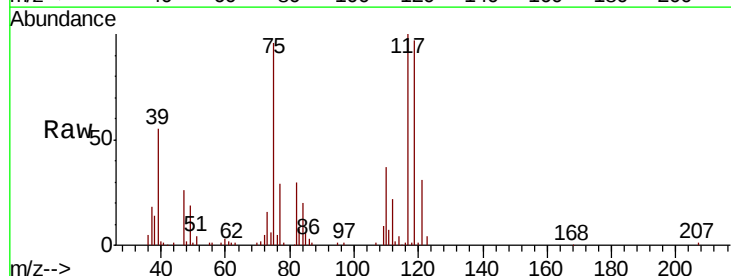
RT: 5.14 min Scan# 1415

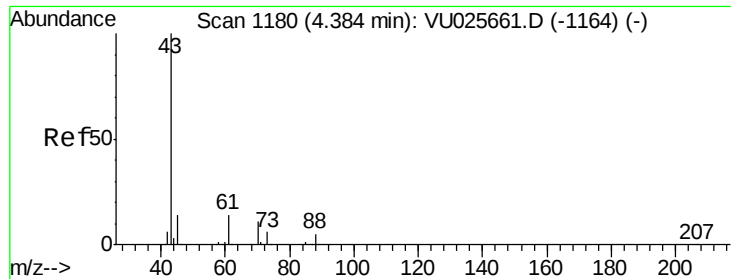
Delta R.T. 0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

Tgt Ion:	75	Resp:	61060
Ion Ratio	Lower	Upper	
75	100		
110	37.9	17.6	52.9
77	31.4	24.4	36.6





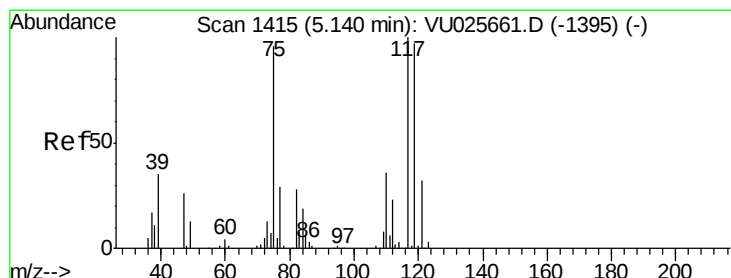
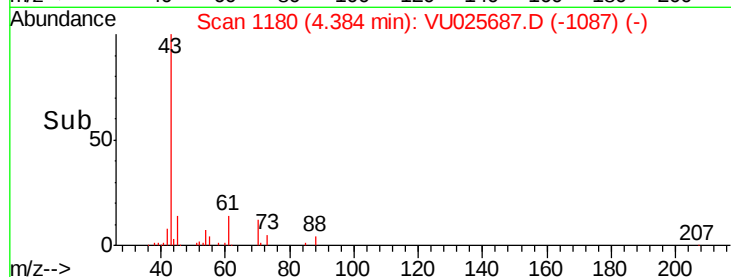
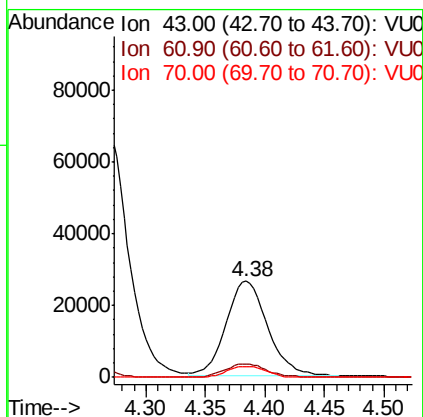
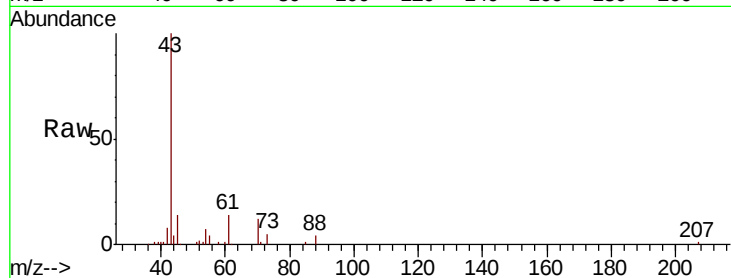
#37
Ethyl Acetate
Concen: 20.87 ug/l
RT: 4.38 min Scan# 1180
Delta R.T. 0.00 min
Lab File: VU025687.D
Acq: 27 Jul 2018 23:07

Instrument :
MSVOA_U
ClientSampleId :
VU0727WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.3	10.7	16.1
70	11.1	8.4	12.6

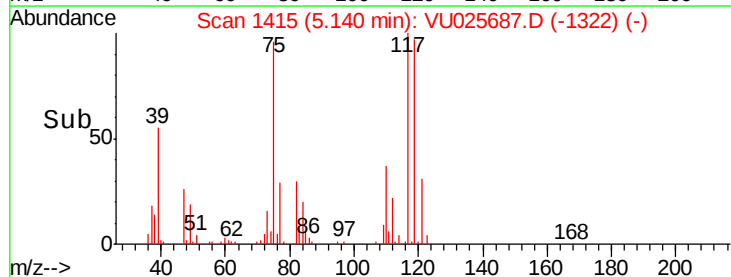
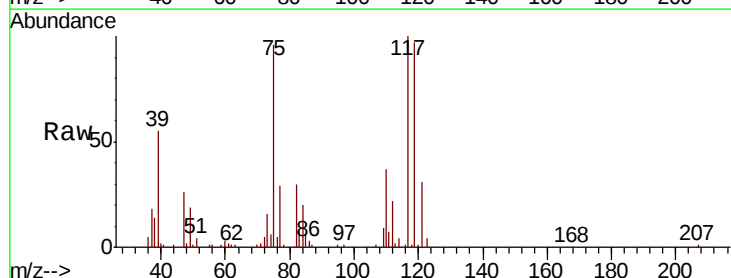
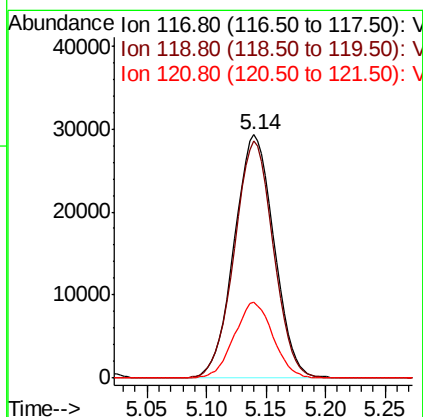
Manual Integrations
APPROVED

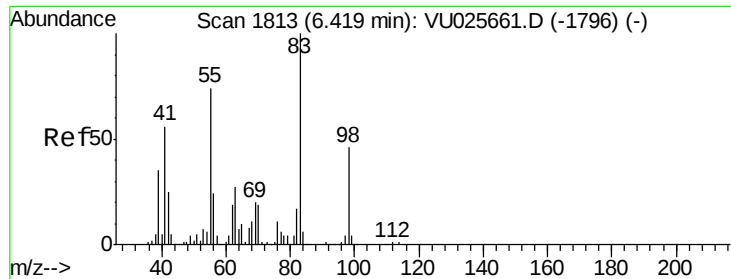
MMDadoda
7/31/2018 3:49:58 PM



#38
Carbon Tetrachloride
Concen: 20.25 ug/l
RT: 5.14 min Scan# 1415
Delta R.T. 0.00 min
Lab File: VU025687.D
Acq: 27 Jul 2018 23:07

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.2	75.7	113.5
121	31.1	24.6	36.8





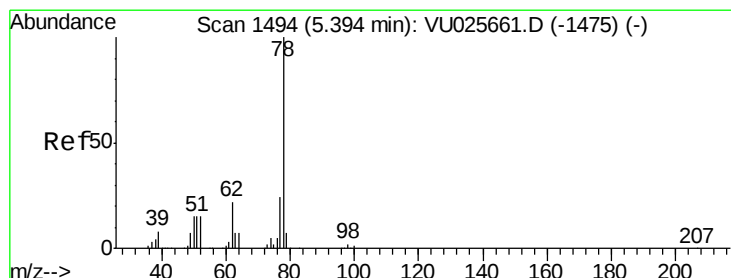
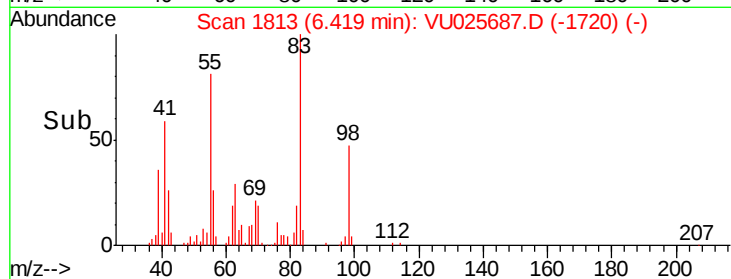
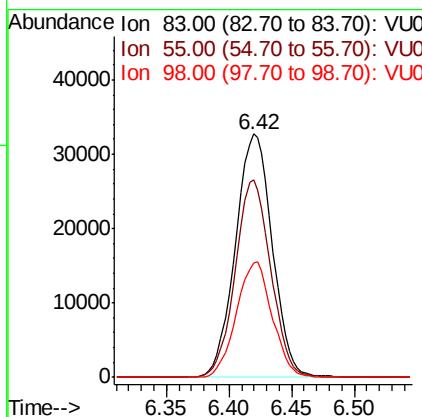
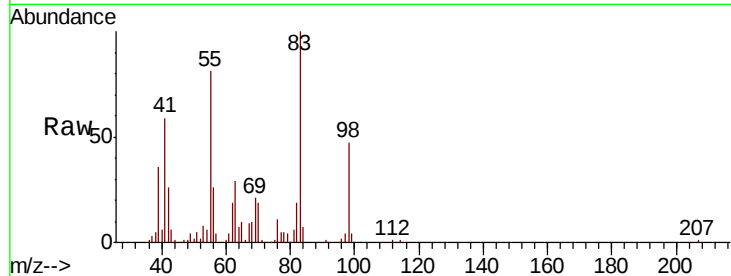
#39
Methvlcvclohexane
Concen: 19.71 ug/l
RT: 6.42 min Scan# 1813
Delta R.T. 0.00 min
Lab File: VU025687.D
Acq: 27 Jul 2018 23:07

Instrument :
MSVOA_U
ClientSampleId :
VU0727WBSD02

Tot Ion	Ratio	Lower	Upper
83	100		
55	80.9	60.0	90.0
98	47.2	36.1	54.1

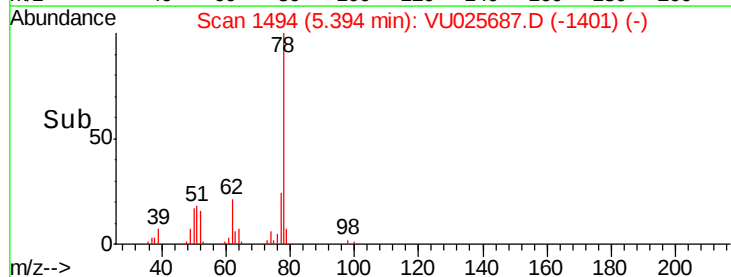
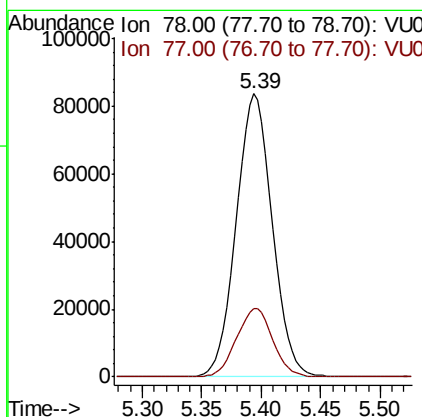
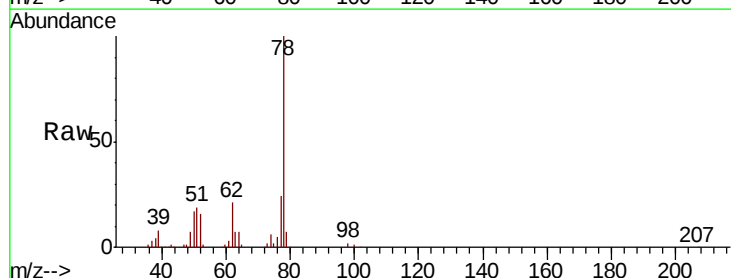
Manual Integrations
APPROVED

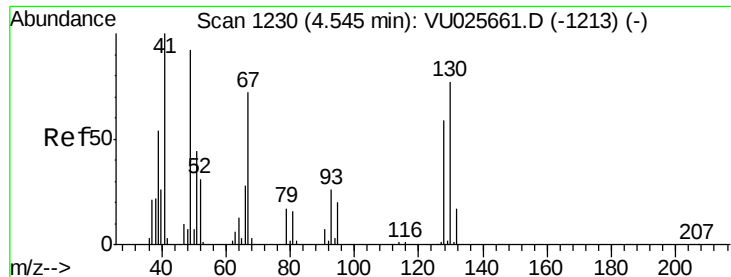
MMDadoda
7/31/2018 3:49:58 PM



#40
Benzene
Concen: 20.26 ug/l
RT: 5.39 min Scan# 1494
Delta R.T. 0.00 min
Lab File: VU025687.D
Acq: 27 Jul 2018 23:07

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.8	29.6





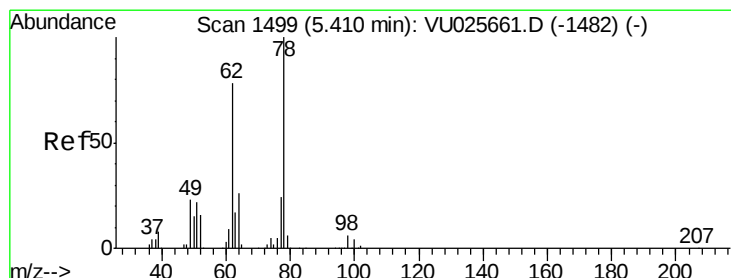
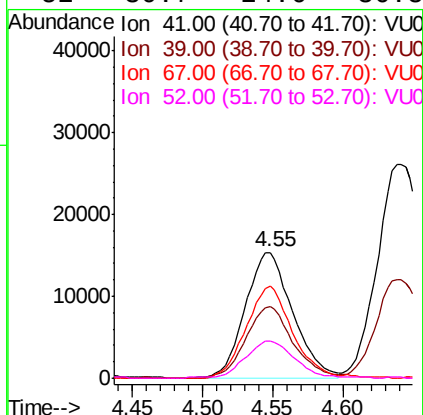
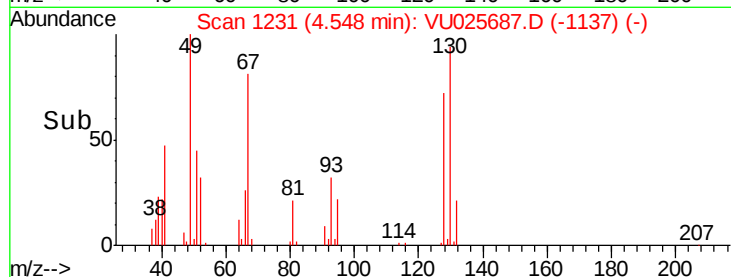
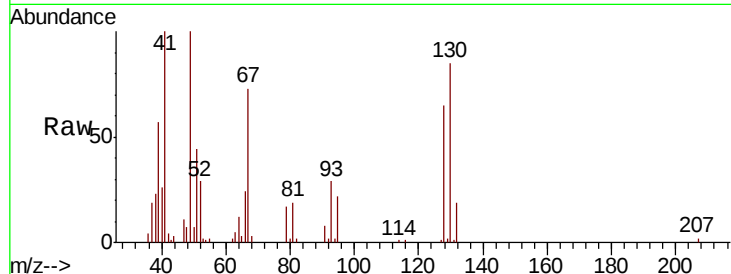
#41
Methacrylonitrile
Concen: 21.15 ug/l
RT: 4.55 min Scan# 1231
Delta R.T. 0.00 min
Lab File: VU025687.D
Acq: 27 Jul 2018 23:07

Instrument :
MSVOA_U
ClientSampleId :
VU0727WBSD02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		36099		
39	56.5	44.4	66.6		
67	70.7	56.0	84.0		
52	30.7	24.6	36.8		

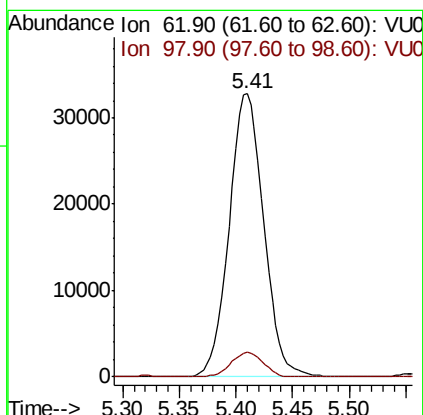
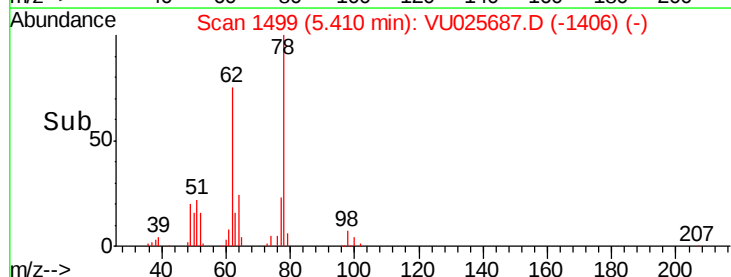
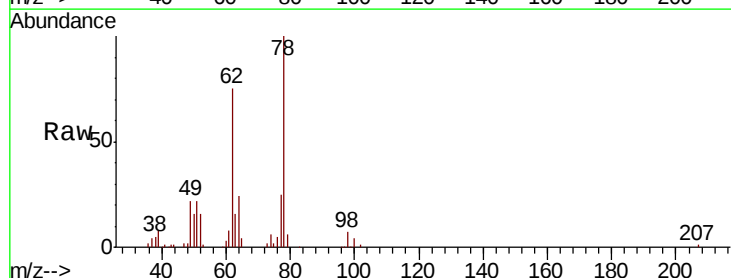
Manual Integrations
APPROVED

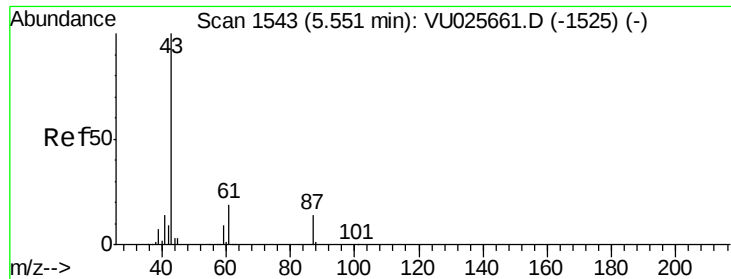
MMDadoda
7/31/2018 3:49:58 PM



#42
1,2-Dichloroethane
Concen: 20.90 ug/l
RT: 5.41 min Scan# 1499
Delta R.T. 0.00 min
Lab File: VU025687.D
Acq: 27 Jul 2018 23:07

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		69705		
98	8.1	0.0	16.4		





#43

Isopropyl Acetate

Concen: 20.91 ug/l

RT: 5.55 min Scan# 1543

Delta R.T. 0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

Instrument :

MSVOA_U

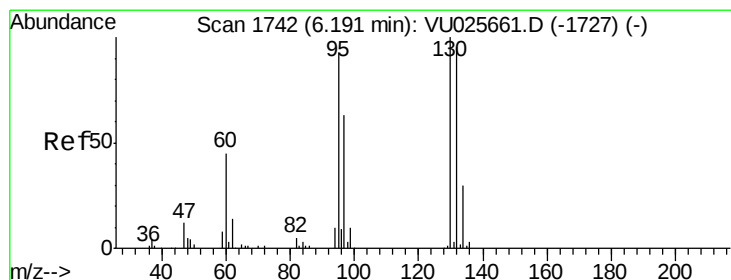
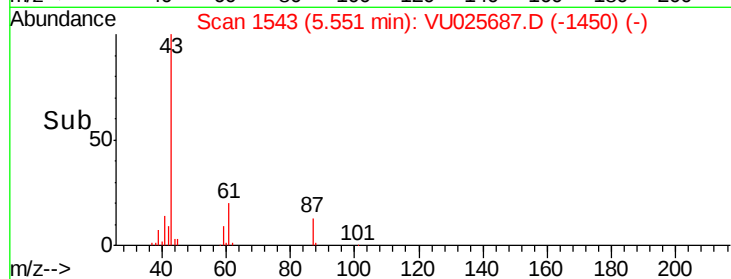
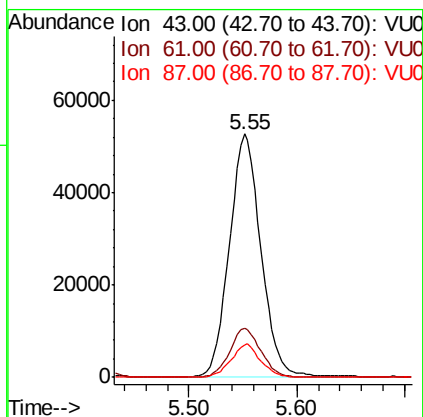
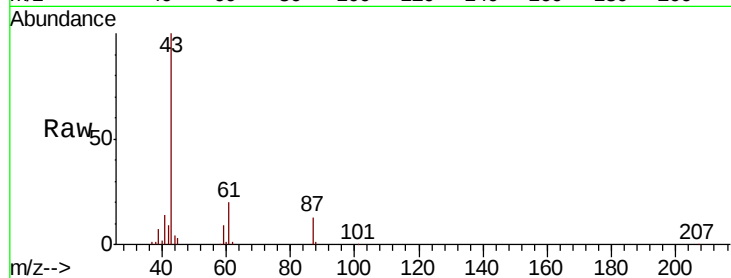
ClientSampleId :

VU0727WBSD02

Tot Ion:	43	Resp:	106183
Ion	Ratio	Lower	Upper
43	100		
61	20.2	15.5	23.3
87	12.9	10.6	16.0

Manual Integrations
APPROVED

MMDadoda
7/31/2018 3:49:58 PM



#44

Trichloroethene

Concen: 20.58 ug/l

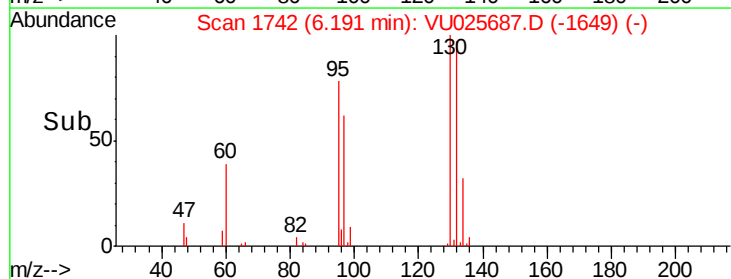
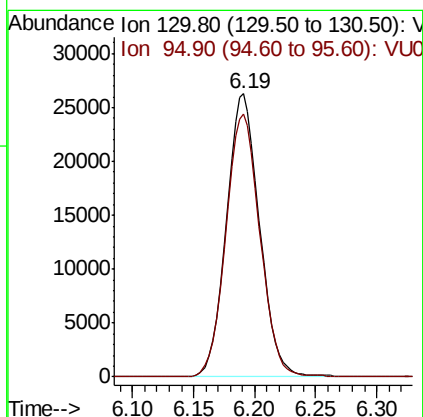
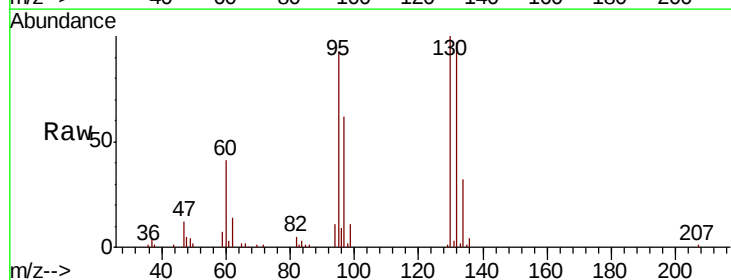
RT: 6.19 min Scan# 1742

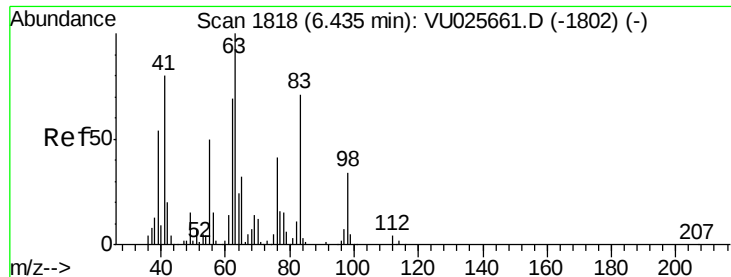
Delta R.T. 0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

Tgt Ion:	130	Resp:	49639
Ion	Ratio	Lower	Upper
130	100		
95	92.9	0.0	192.2





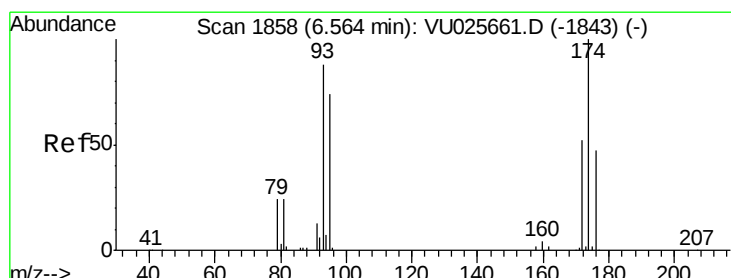
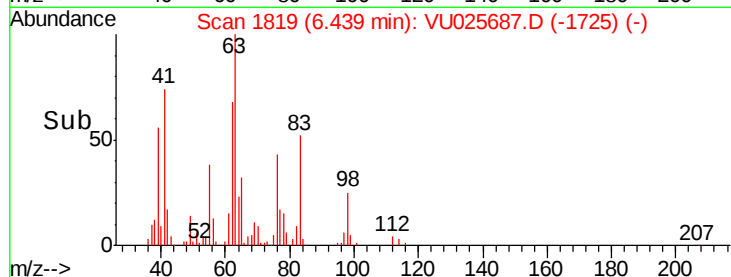
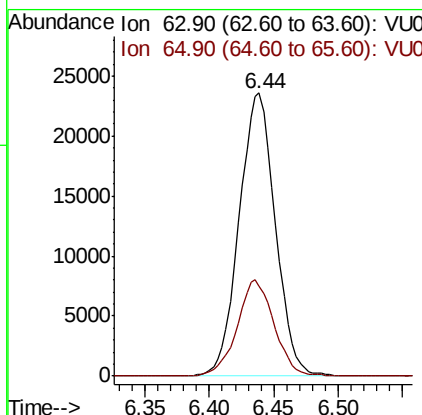
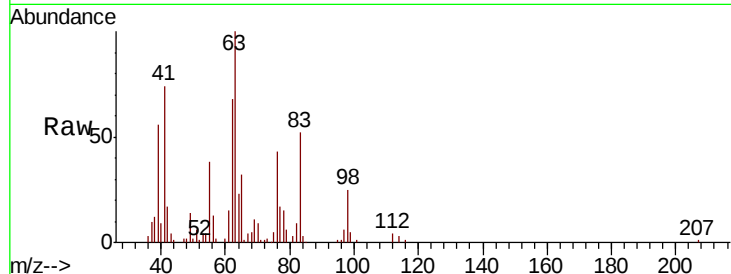
#45
 1,2-Dichloropropane
 Concen: 20.37 ug/l
 RT: 6.44 min Scan# 1819
 Delta R.T. 0.00 min
 Lab File: VU025687.D
 Acq: 27 Jul 2018 23:07

Instrument :
 MSVOA_U
 ClientSampleID :
 VU0727WBSD02

Tot Ion: 63 Resp: 46013
 Ion Ratio Lower Upper
 63 100
 65 32.0 26.1 39.1

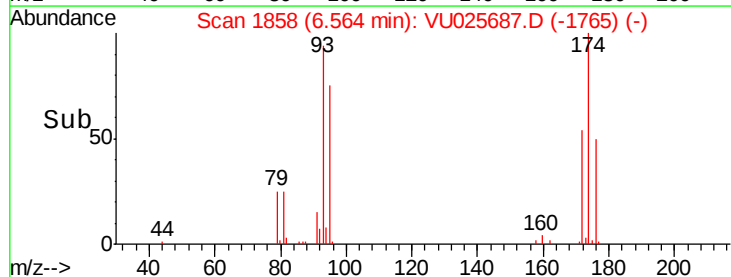
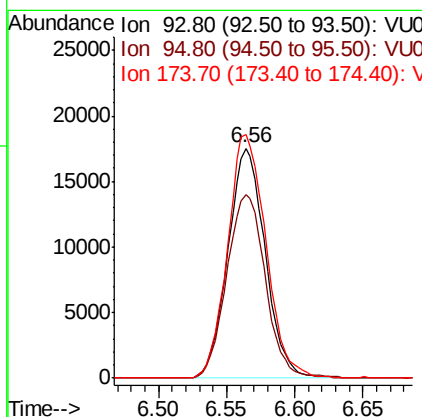
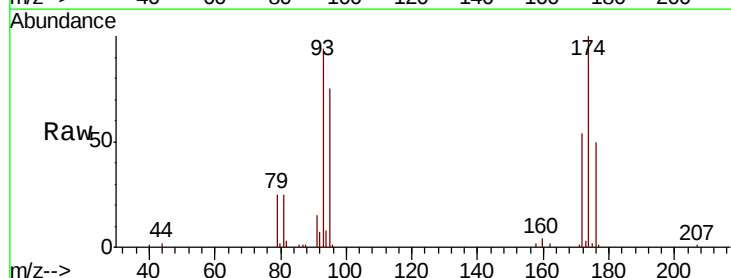
Manual Integrations
 APPROVED

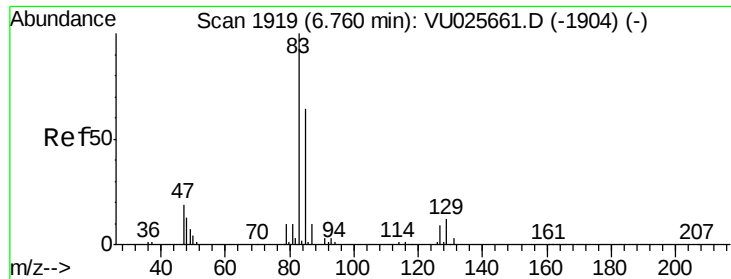
MMDadoda
 7/31/2018 3:49:58 PM



#46
 Dibromomethane
 Concen: 20.35 ug/l
 RT: 6.56 min Scan# 1858
 Delta R.T. 0.00 min
 Lab File: VU025687.D
 Acq: 27 Jul 2018 23:07

Tgt Ion: 93 Resp: 33309
 Ion Ratio Lower Upper
 93 100
 95 82.6 66.6 100.0
 174 108.7 85.8 128.8





#47

Bromodichloromethane

Concen: 20.35 ug/l

RT: 6.76 min Scan# 1919

Delta R.T. 0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

Instrument :

MSVOA_U

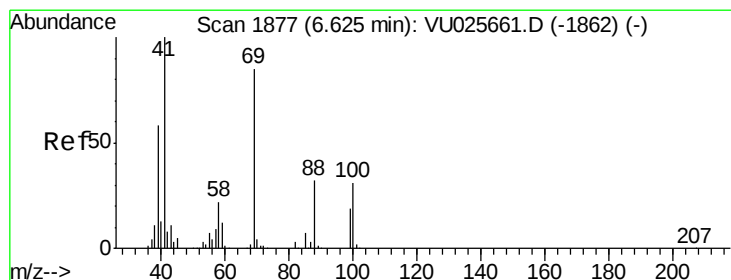
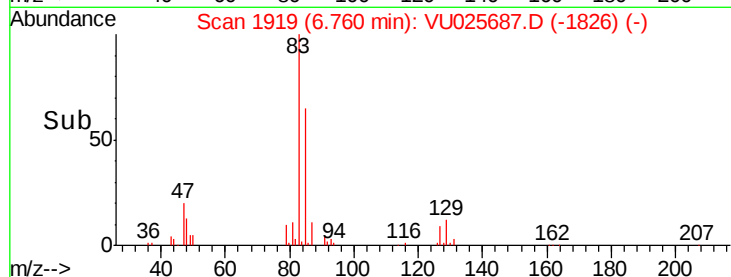
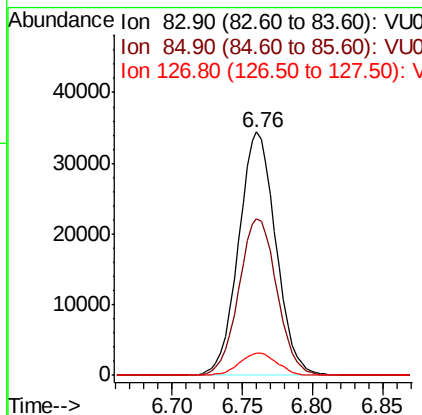
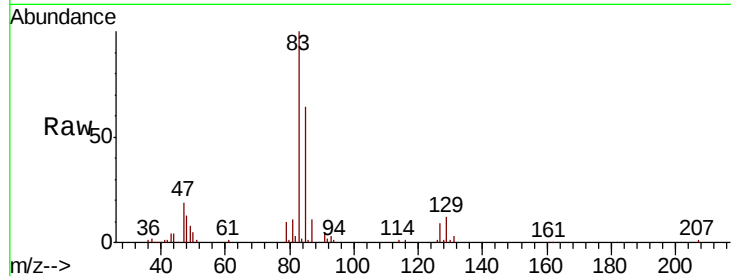
ClientSampleId :

VU0727WBSD02

Tot Ion:	83	Resp:	63552
Ion	Ratio	Lower	Upper
83	100		
85	64.4	50.2	75.4
127	8.9	7.2	10.8

Manual Integrations
APPROVED

MMDadoda
7/31/2018 3:49:58 PM



#48

Methyl methacrylate

Concen: 21.36 ug/l

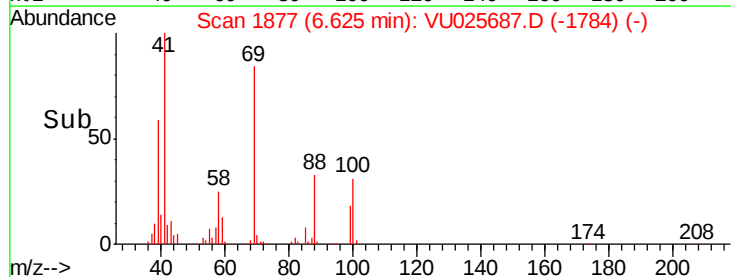
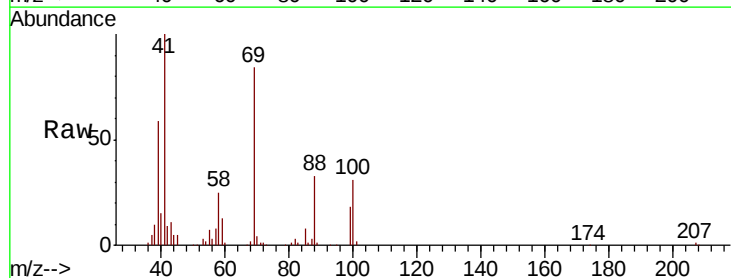
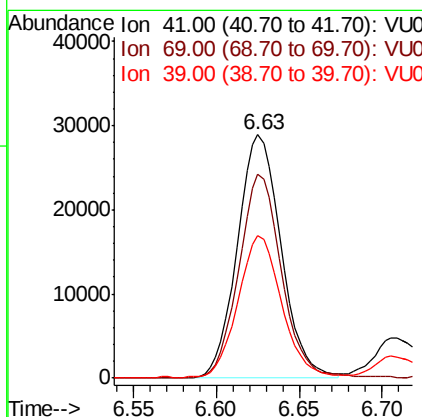
RT: 6.63 min Scan# 1877

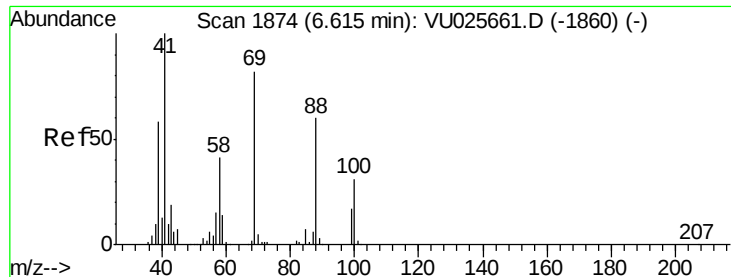
Delta R.T. 0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

Tgt Ion:	41	Resp:	53155
Ion	Ratio	Lower	Upper
41	100		
69	82.1	65.0	97.4
39	58.6	46.4	69.6





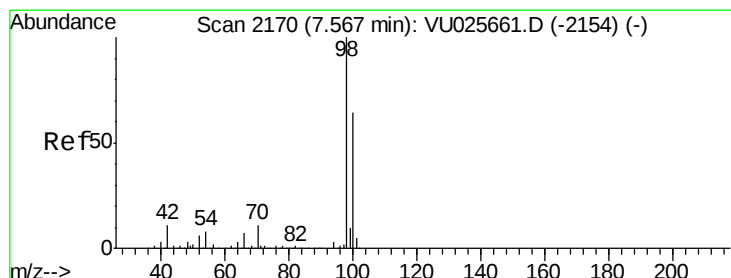
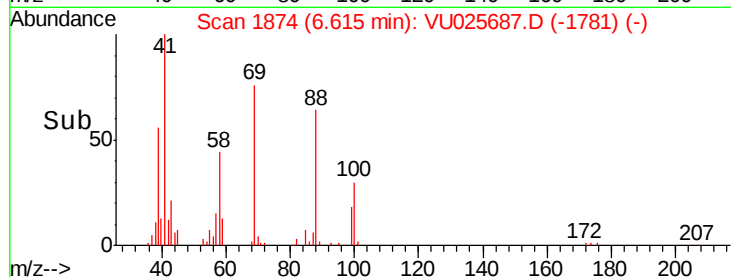
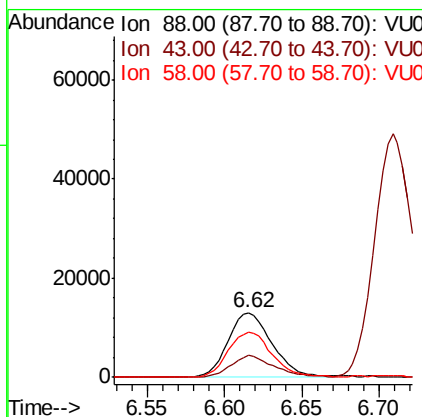
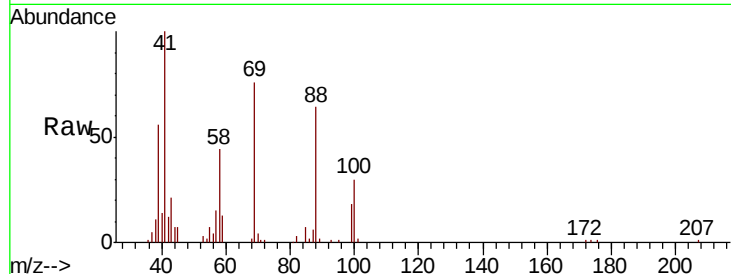
#49
1,4-Dioxane
Concen: 424.32 ug/l
RT: 6.62 min Scan# 1874
Delta R.T. 0.00 min
Lab File: VU025687.D
Acq: 27 Jul 2018 23:07

Instrument :
MSVOA_U
ClientSampleId :
VU0727WBSD02

Tot Ion	Ratio	Lower	Upper
88	100		
43	33.7	27.3	40.9
58	70.7	57.6	86.4

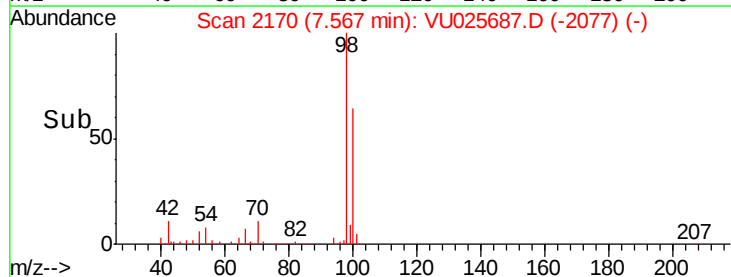
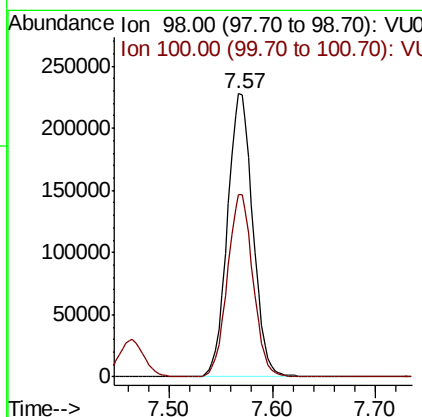
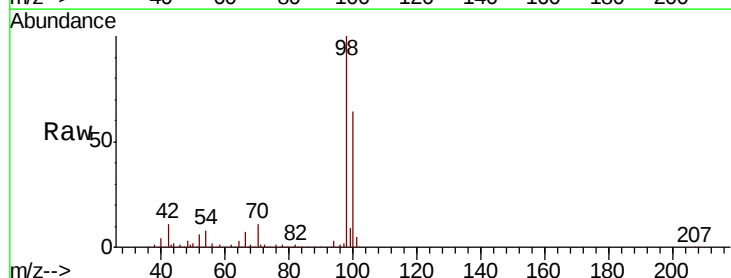
Manual Integrations
APPROVED

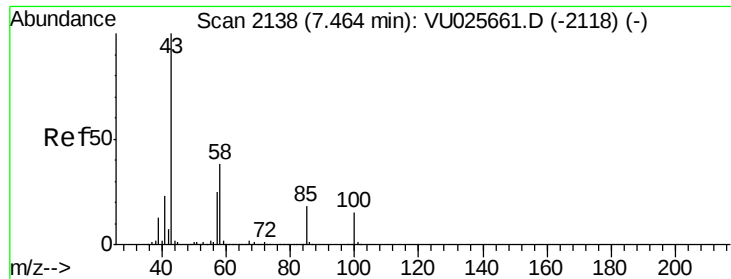
MMDadoda
7/31/2018 3:49:58 PM



#50
Toluene-d8
Concen: 50.75 ug/l
RT: 7.57 min Scan# 2170
Delta R.T. 0.00 min
Lab File: VU025687.D
Acq: 27 Jul 2018 23:07

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.6	51.1	76.7





#51

4-Methyl-2-Pentanone

Concen: 107.26 ug/l

RT: 7.46 min Scan# 2137

Delta R.T. -0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

Instrument :

MSVOA_U

ClientSampleId :

VU0727WBSD02

Tot Ion: 43 Resp: 340994

Ion Ratio Lower Upper

43 100

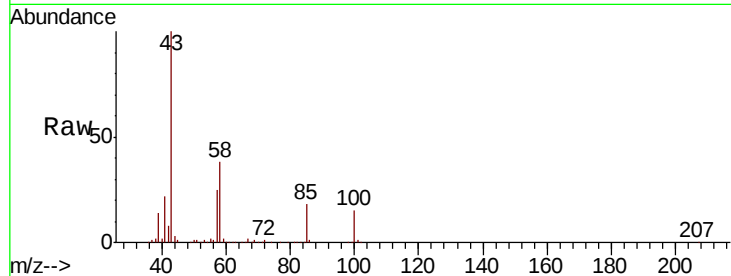
58 38.2 31.0 46.4

Manual Integrations

APPROVED

MMDadoda

7/31/2018 3:49:58 PM



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

200000

7.46

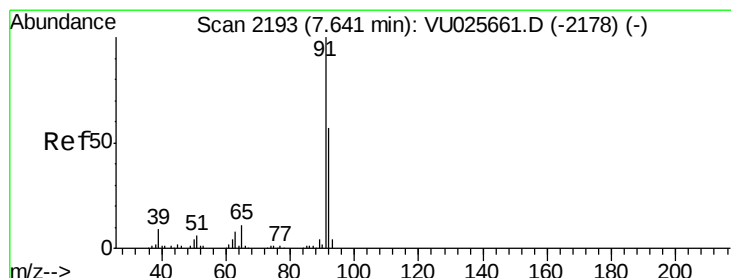
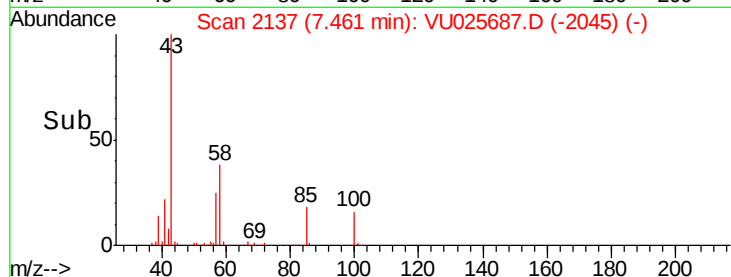
150000

100000

50000

0

Time--> 7.35 7.40 7.45 7.50 7.55



#52

Toluene

Concen: 20.87 ug/l

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU025687.D

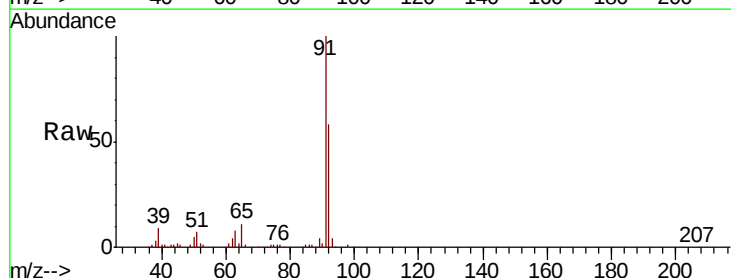
Acq: 27 Jul 2018 23:07

Tgt Ion: 92 Resp: 112324

Ion Ratio Lower Upper

92 100

91 173.3 139.2 208.8



Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0

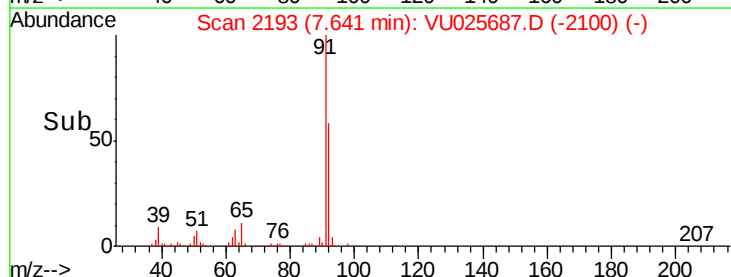
100000

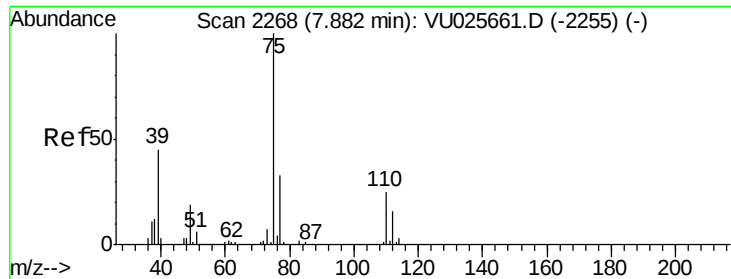
7.64

50000

0

Time--> 7.55 7.60 7.65 7.70 7.75





#53

t-1,3-Dichloropropene

Concen: 20.11 ug/l

RT: 7.88 min Scan# 2268

Delta R.T. 0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

Instrument :

MSVOA_U

ClientSampleId :

VU0727WBSD02

Tot Ion: 75 Resp: 70524

Ion Ratio Lower Upper

75 100

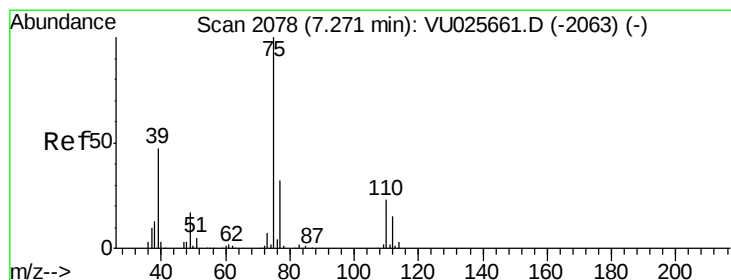
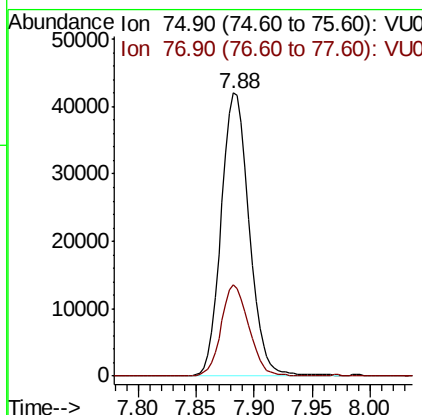
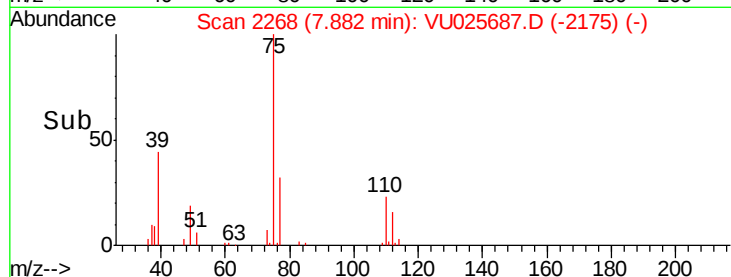
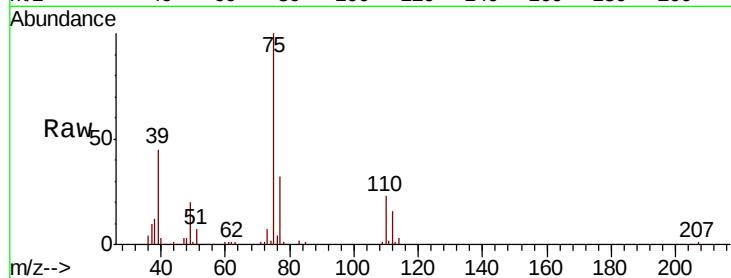
77 32.3 24.5 36.7

Manual Integrations

APPROVED

MMDadoda

7/31/2018 3:49:58 PM



#54

cis-1,3-Dichloropropene

Concen: 20.14 ug/l

RT: 7.27 min Scan# 2078

Delta R.T. 0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

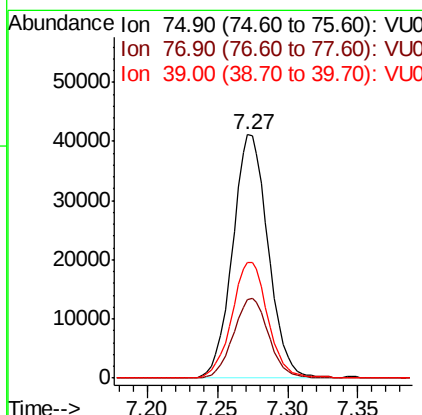
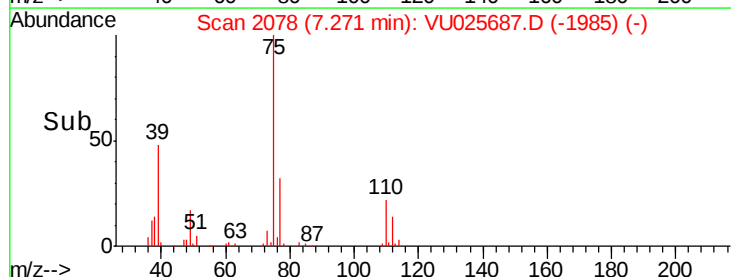
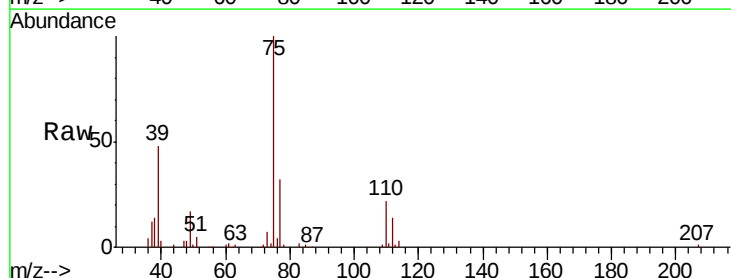
Tgt Ion: 75 Resp: 72528

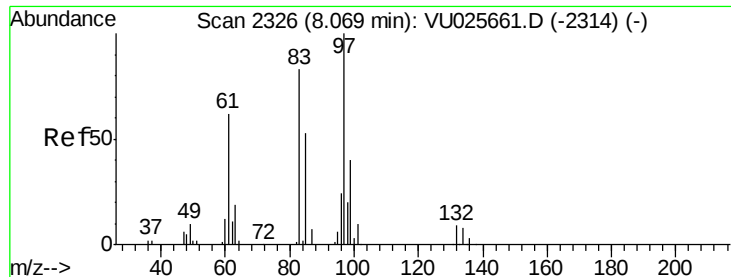
Ion Ratio Lower Upper

75 100

77 32.0 25.6 38.4

39 47.5 40.0 60.0





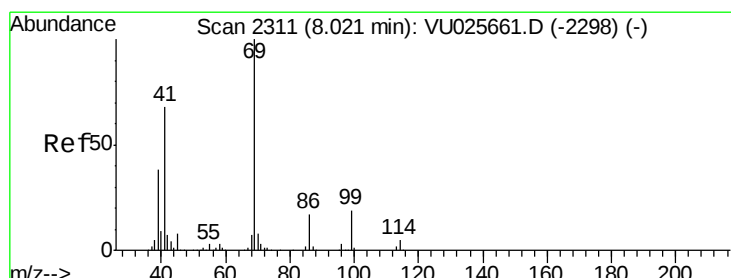
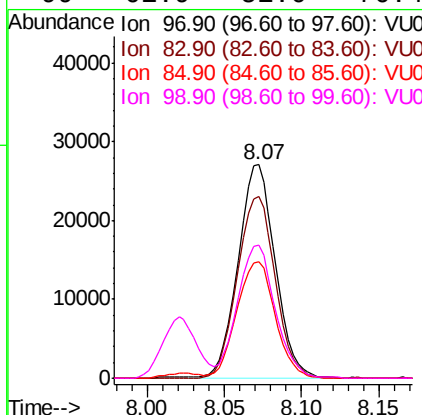
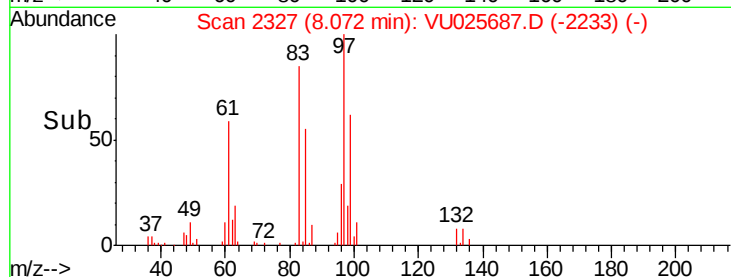
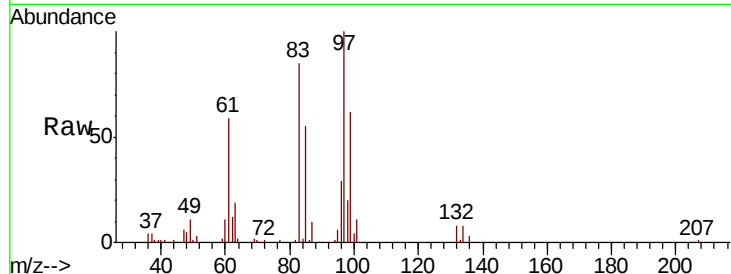
#55
 1,1,2-Trichloroethane
 Concen: 20.25 ug/l
 RT: 8.07 min Scan# 2327
 Delta R.T. 0.00 min
 Lab File: VU025687.D
 Acq: 27 Jul 2018 23:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0727WBSD02

Tot Ion:	97	Resp:	45298
Ion	Ratio	Lower	Upper
97	100		
83	85.1	68.9	103.3
85	54.6	44.4	66.6
99	61.9	51.0	76.4

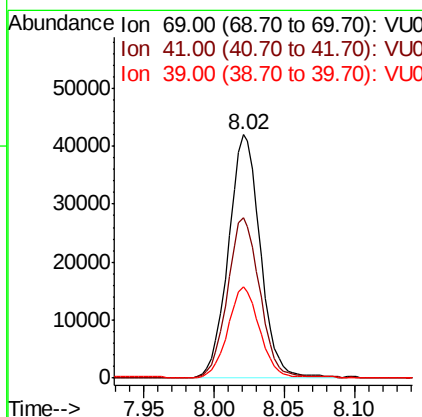
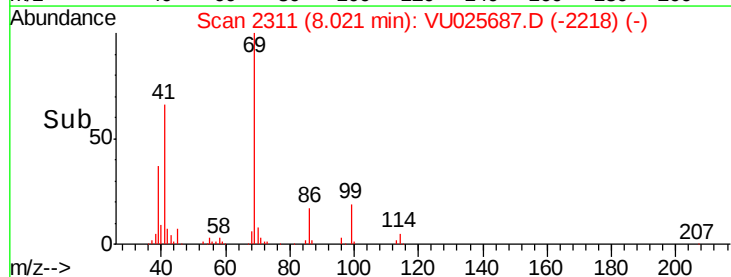
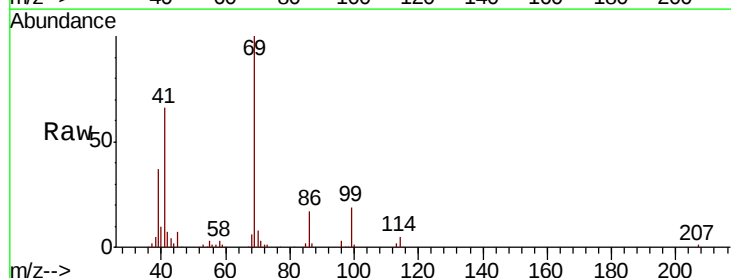
Manual Integrations
 APPROVED

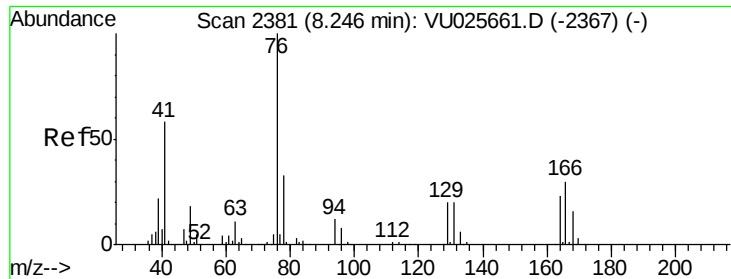
MMDadoda
 7/31/2018 3:49:58 PM



#56
 Ethyl methacrylate
 Concen: 20.81 ug/l
 RT: 8.02 min Scan# 2311
 Delta R.T. 0.00 min
 Lab File: VU025687.D
 Acq: 27 Jul 2018 23:07

Tgt Ion:	69	Resp:	66495
Ion	Ratio	Lower	Upper
69	100		
41	67.3	54.8	82.2
39	36.5	31.1	46.7





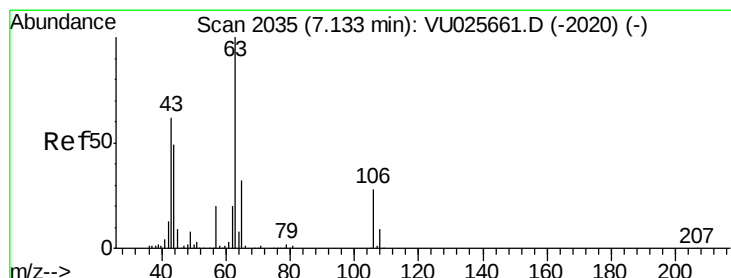
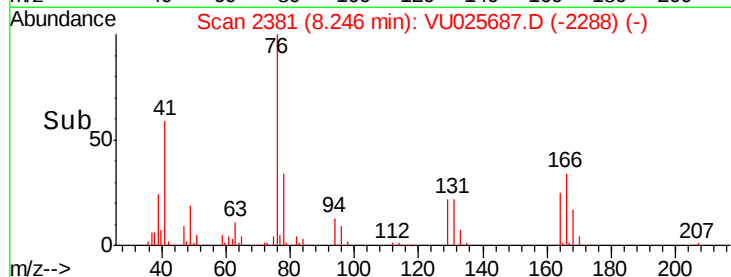
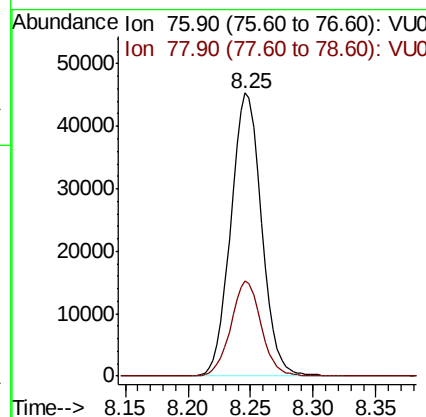
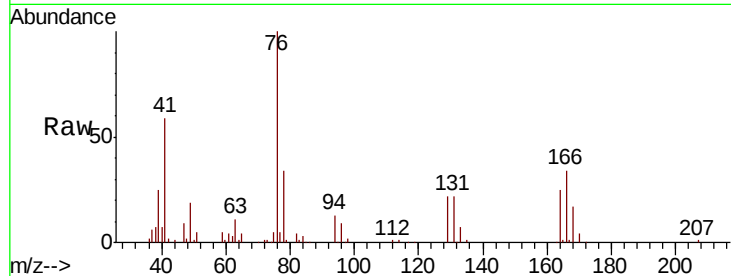
#57
 1,3-Dichloropropane
 Concen: 20.52 ug/l
 RT: 8.25 min Scan# 2381
 Delta R.T. 0.00 min
 Lab File: VU025687.D
 Acq: 27 Jul 2018 23:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0727WBSD02

Tot Ion: 76 Resp: 77180
 Ion Ratio Lower Upper
 76 100
 78 33.1 26.1 39.1

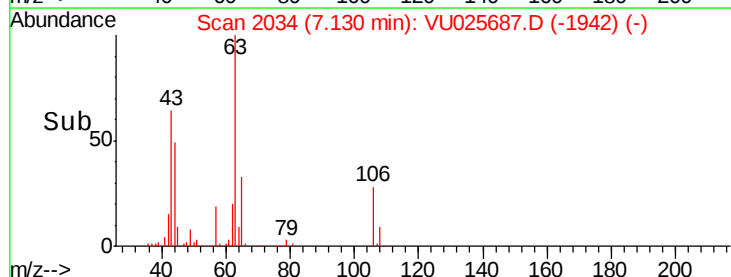
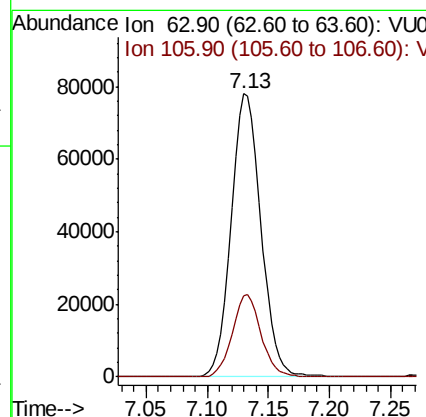
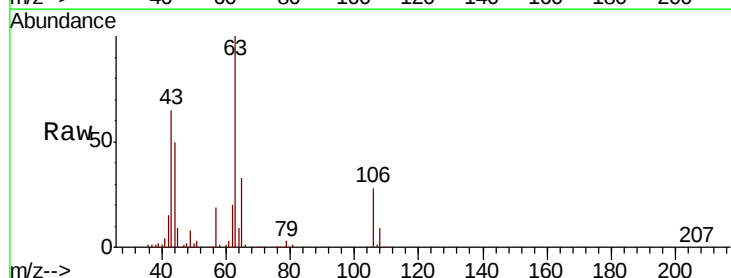
Manual Integrations
 APPROVED

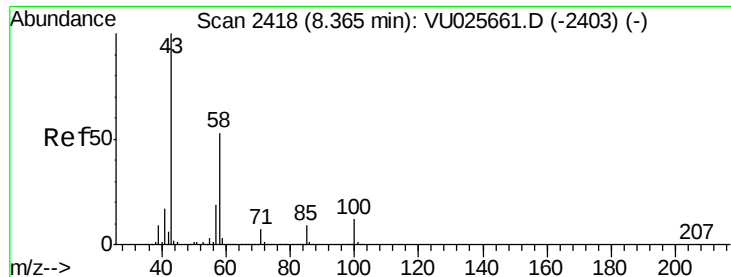
MMDadoda
 7/31/2018 3:49:58 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 96.82 ug/l
 RT: 7.13 min Scan# 2034
 Delta R.T. -0.00 min
 Lab File: VU025687.D
 Acq: 27 Jul 2018 23:07

Tgt Ion: 63 Resp: 133645
 Ion Ratio Lower Upper
 63 100
 106 27.9 22.3 33.5





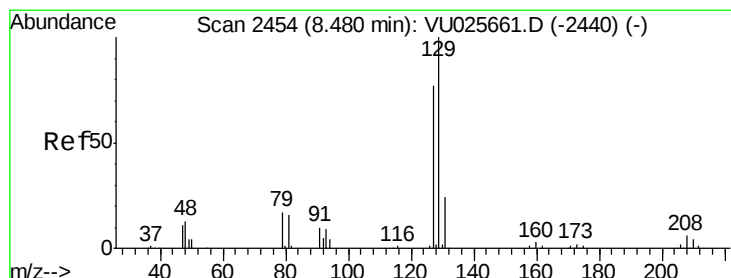
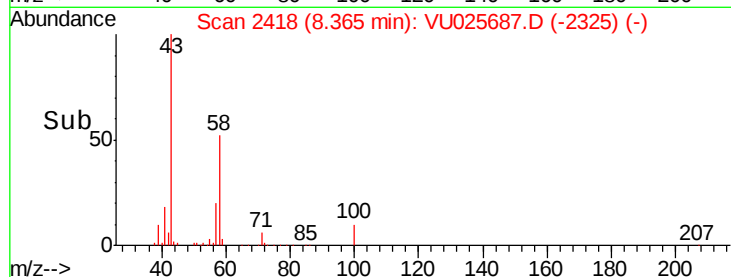
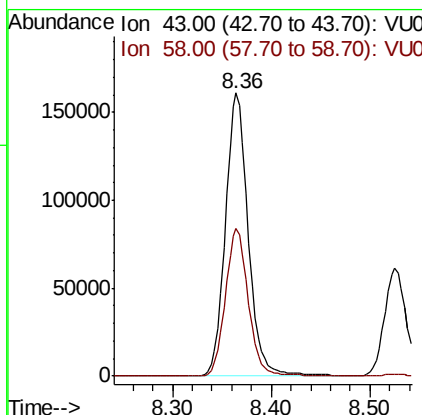
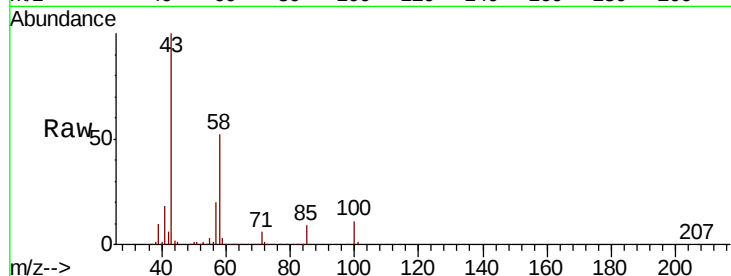
#59
2-Hexanone
Concen: 105.08 ug/l
RT: 8.36 min Scan# 2418
Delta R.T. 0.00 min
Lab File: VU025687.D
Acq: 27 Jul 2018 23:07

Instrument :
MSVOA_U
ClientSampleId :
VU0727WBSD02

Tot Ion	43	Resp	261877
Ion Ratio	100	Lower	Upper
43	100		
58	52.4	26.2	78.5

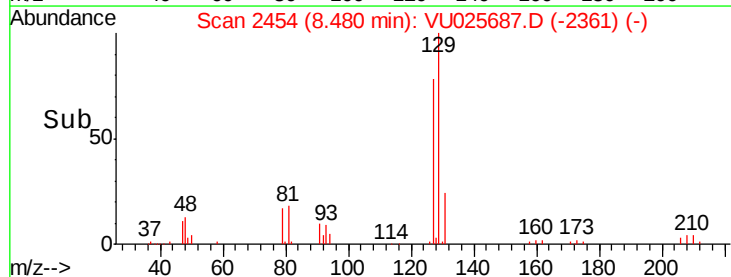
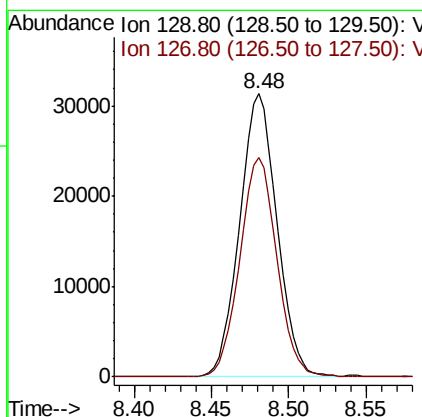
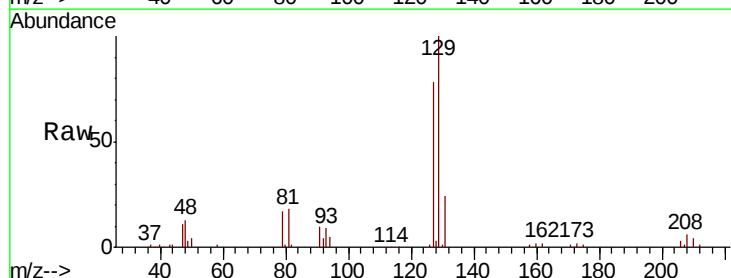
Manual Integrations
APPROVED

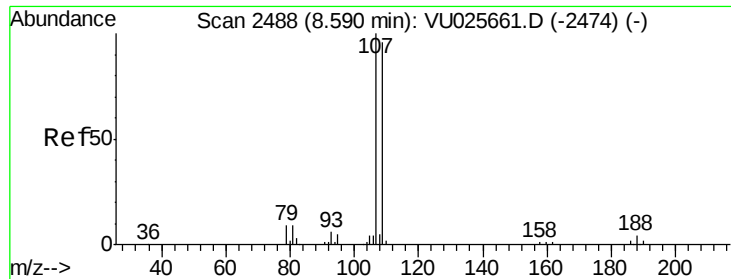
MMDadoda
7/31/2018 3:49:58 PM



#60
Dibromochloromethane
Concen: 20.00 ug/l
RT: 8.48 min Scan# 2454
Delta R.T. 0.00 min
Lab File: VU025687.D
Acq: 27 Jul 2018 23:07

Tgt Ion	129	Resp	52761
Ion Ratio	100	Lower	Upper
129	100		
127	76.7	38.6	115.8





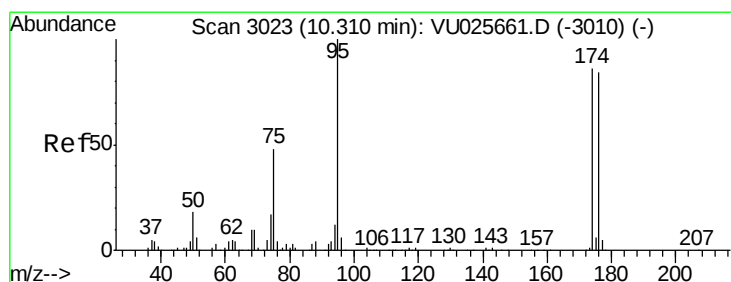
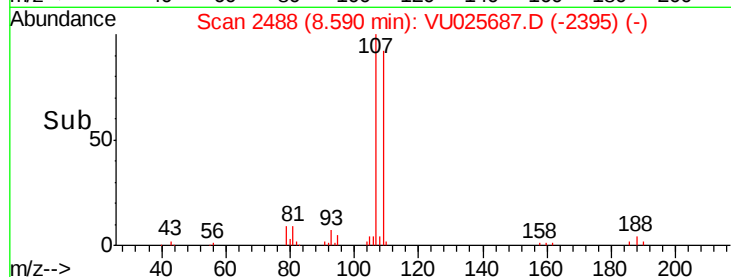
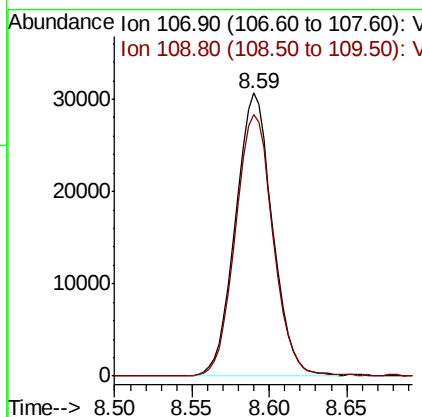
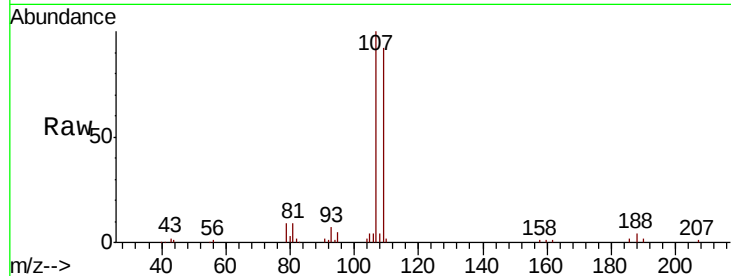
#61
 1,2-Dibromoethane
 Concen: 20.48 ug/l
 RT: 8.59 min Scan# 2488
 Delta R.T. 0.00 min
 Lab File: VU025687.D
 Acq: 27 Jul 2018 23:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0727WBSD02

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.5	75.8	113.8

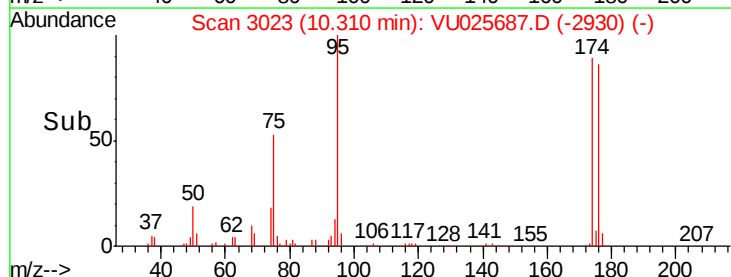
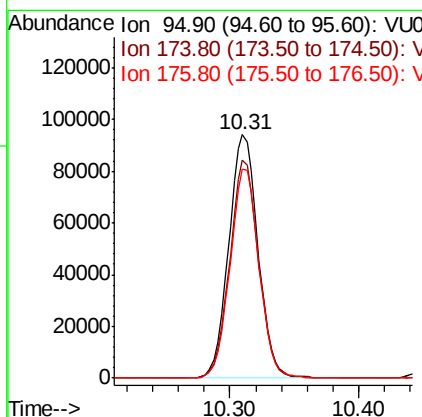
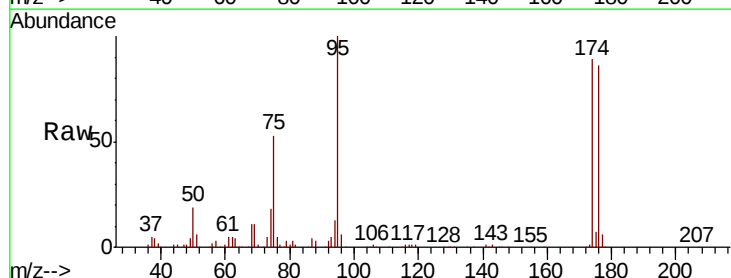
Manual Integrations
 APPROVED

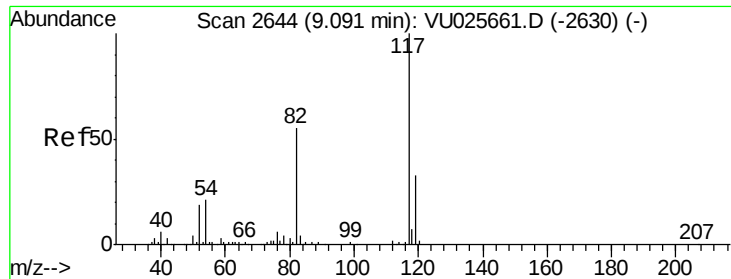
MMDadoda
 7/31/2018 3:49:58 PM



#62
 4-Bromofluorobenzene
 Concen: 49.17 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. 0.00 min
 Lab File: VU025687.D
 Acq: 27 Jul 2018 23:07

Tgt Ion	Ratio	Lower	Upper
95	100		
174	88.8	0.0	172.2
176	85.2	0.0	162.6





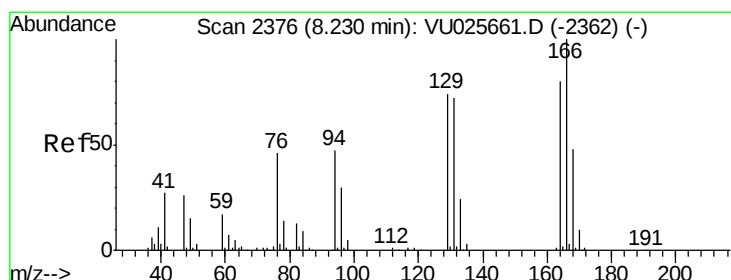
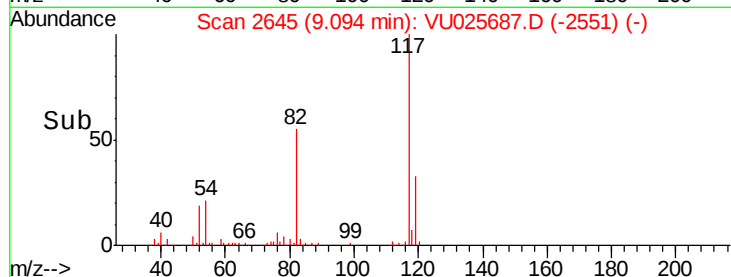
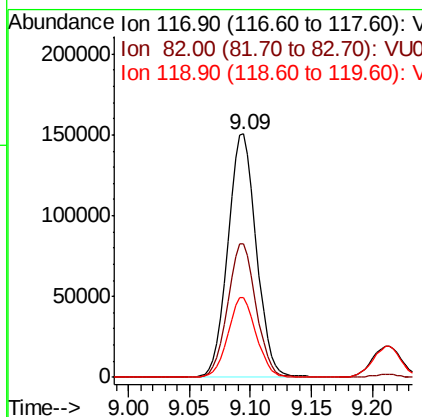
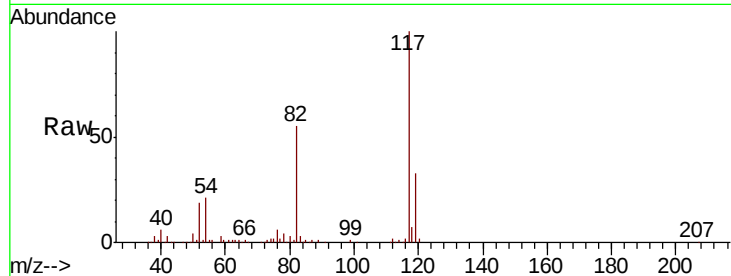
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU025687.D
Acq: 27 Jul 2018 23:07

Instrument :
MSVOA_U
ClientSampleId :
VU0727WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
117	100	245796		
82	54.9	46.0	69.0	
119	32.6	26.0	39.0	

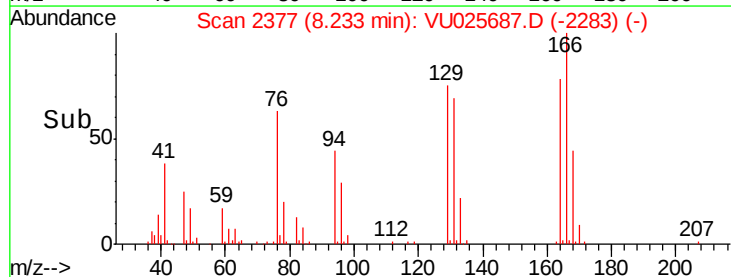
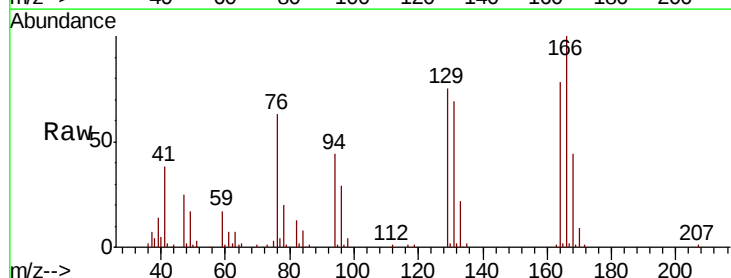
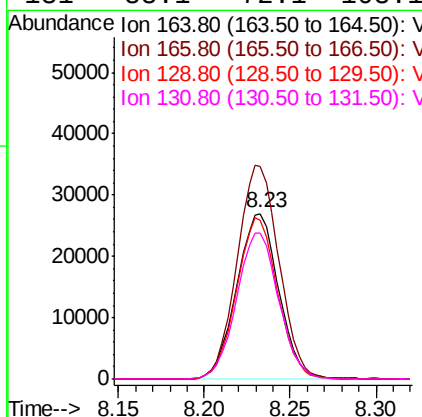
Manual Integrations
APPROVED

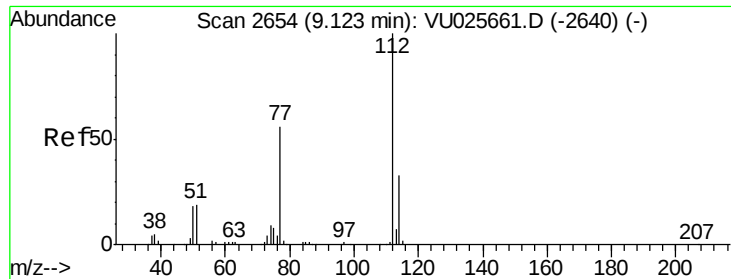
MMDadoda
7/31/2018 3:49:58 PM



#64
Tetrachloroethene
Concen: 21.22 ug/l
RT: 8.23 min Scan# 2377
Delta R.T. 0.00 min
Lab File: VU025687.D
Acq: 27 Jul 2018 23:07

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	45900		
166	128.5	101.1	151.7	
129	95.7	73.0	109.6	
131	88.1	72.1	108.1	





#65

Chlorobenzene

Concen: 20.80 ug/l

RT: 9.12 min Scan# 2654

Delta R.T. 0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

Instrument :

MSVOA_U

ClientSampleId :

VU0727WBSD02

Tot Ion:112 Resp: 131843

Ion Ratio Lower Upper

112 100

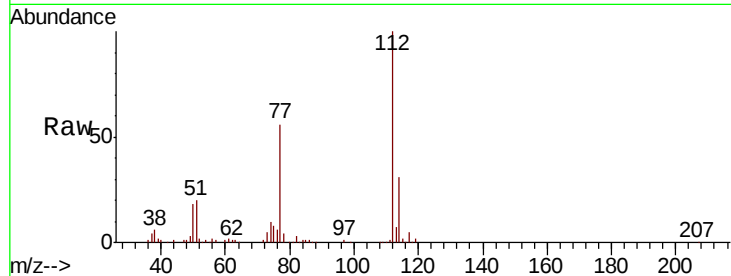
114 31.4 25.8 38.8

Manual Integrations

APPROVED

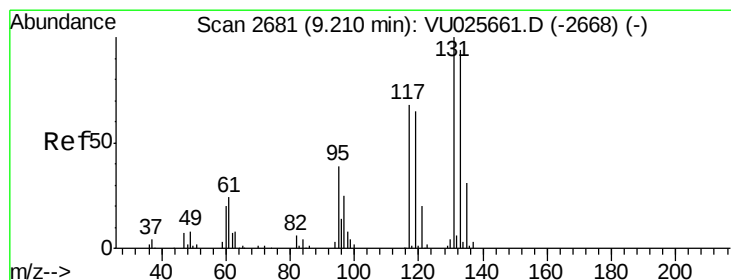
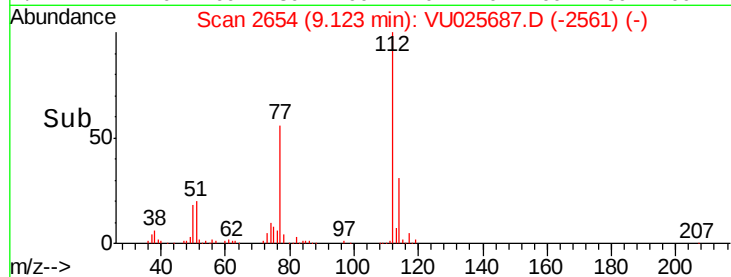
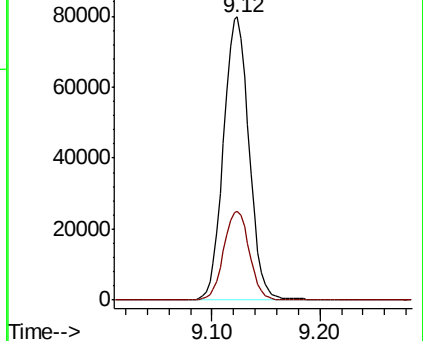
MMDadoda

7/31/2018 3:49:58 PM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 20.68 ug/l

RT: 9.21 min Scan# 2681

Delta R.T. 0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

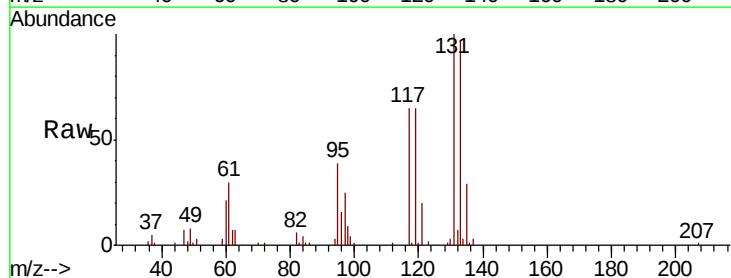
Tgt Ion:131 Resp: 47417

Ion Ratio Lower Upper

131 100

133 98.7 47.8 143.3

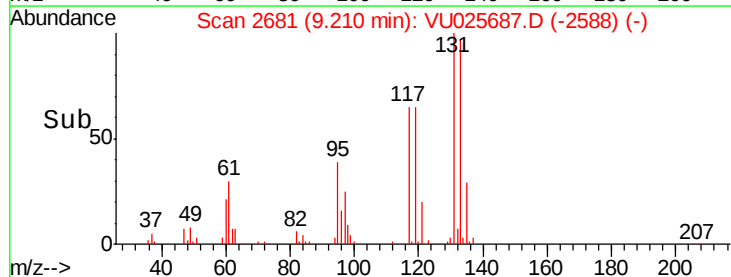
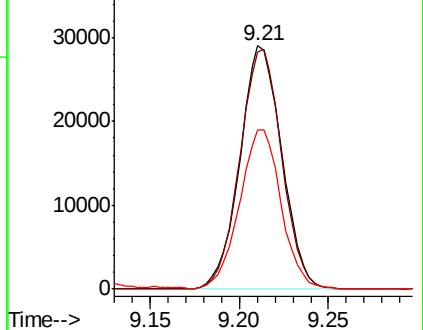
119 65.0 31.6 95.0

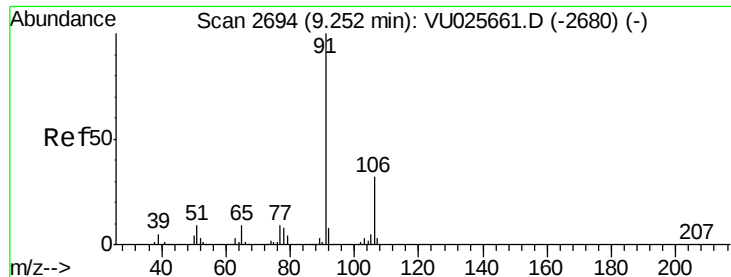


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





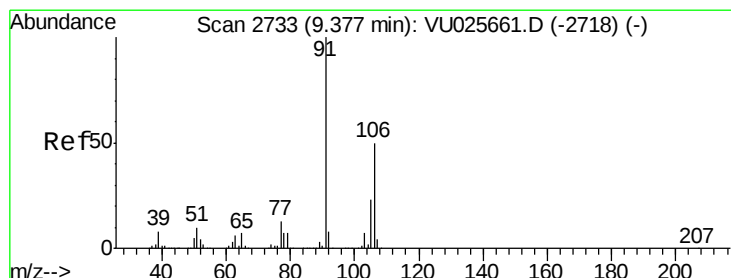
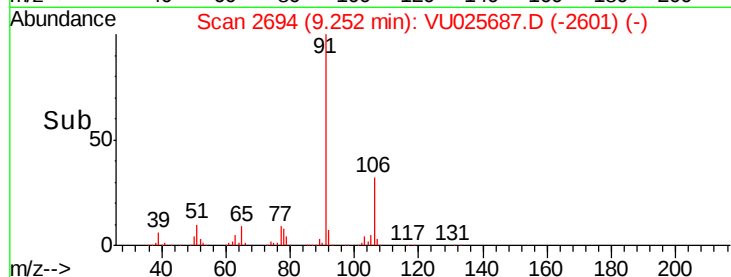
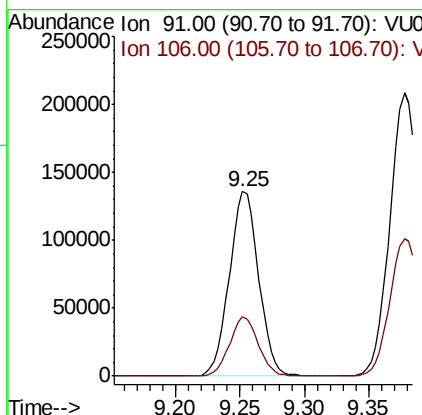
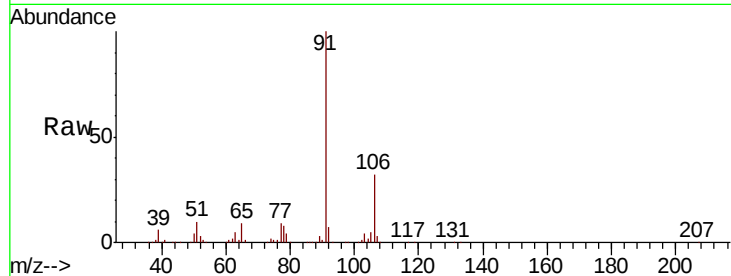
#67
Ethyl Benzene
Concen: 20.51 ug/l
RT: 9.25 min Scan# 2694
Delta R.T. 0.00 min
Lab File: VU025687.D
Acq: 27 Jul 2018 23:07

Instrument :
MSVOA_U
ClientSampleId :
VU0727WBSD02

Tot Ion: 91 Resp: 215329
Ion Ratio Lower Upper
91 100
106 31.8 25.3 37.9

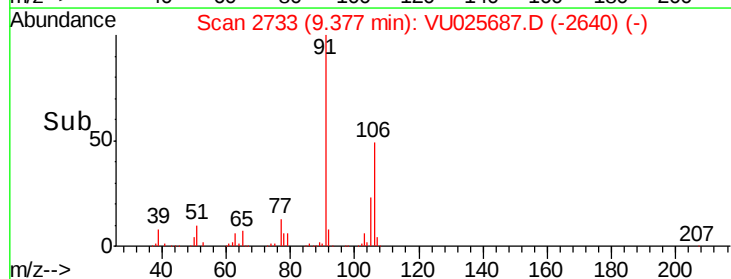
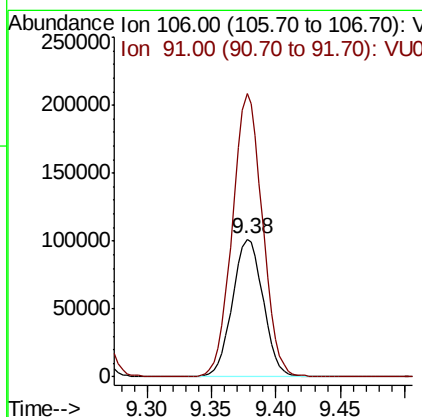
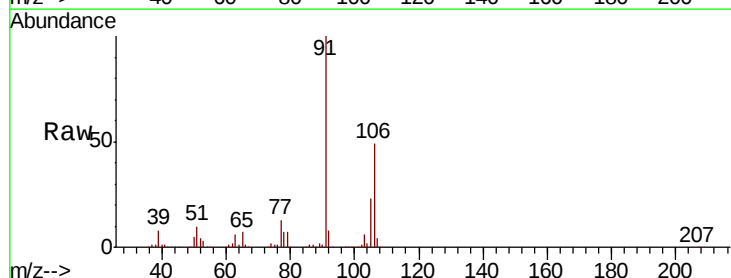
Manual Integrations
APPROVED

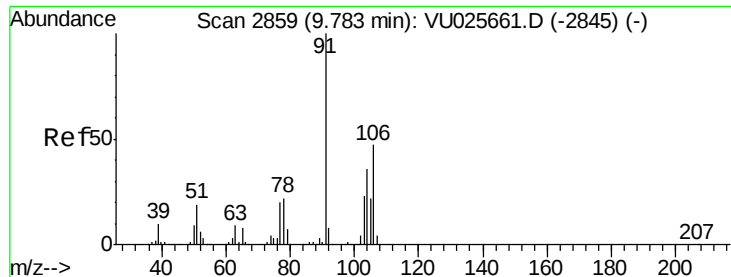
MMDadoda
7/31/2018 3:49:58 PM



#68
m/p-Xylenes
Concen: 41.71 ug/l
RT: 9.38 min Scan# 2733
Delta R.T. 0.00 min
Lab File: VU025687.D
Acq: 27 Jul 2018 23:07

Tgt Ion: 106 Resp: 168075
Ion Ratio Lower Upper
106 100
91 201.5 162.3 243.5





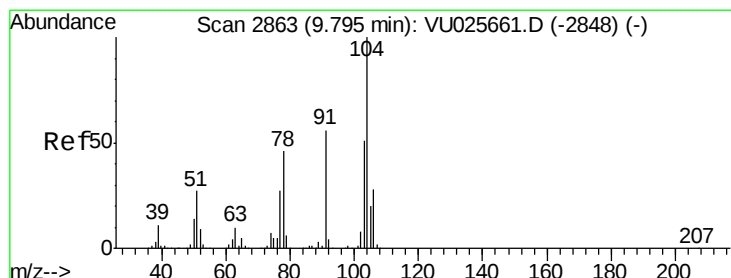
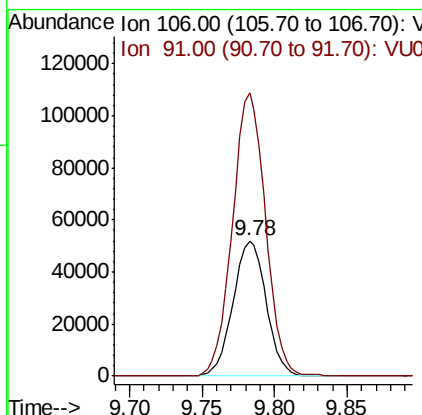
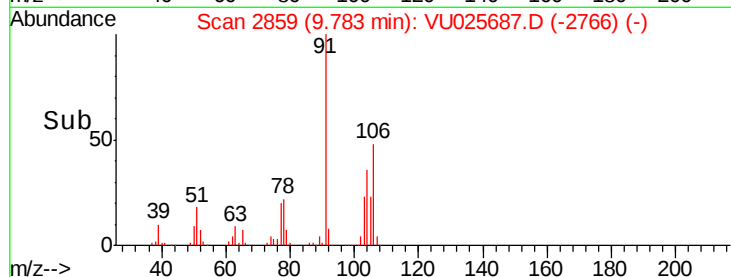
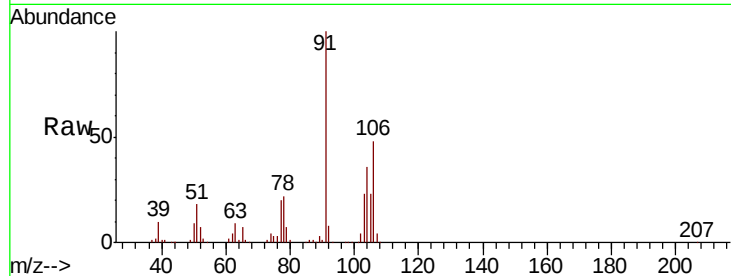
#69
o-Xylene
Concen: 20.88 ug/l
RT: 9.78 min Scan# 2859
Delta R.T. 0.00 min
Lab File: VU025687.D
Acq: 27 Jul 2018 23:07

Instrument :
MSVOA_U
ClientSampleId :
VU0727WBSD02

Tot Ion	Ion	Ratio	Lower	Upper
106	100			
91	208.9	105.3	315.8	

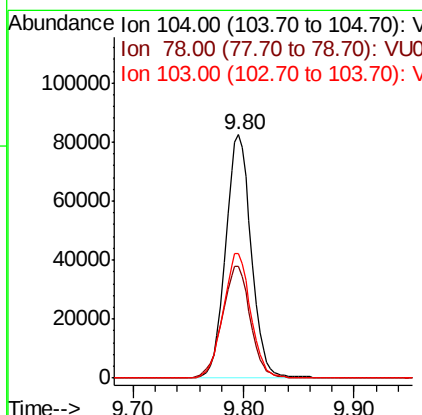
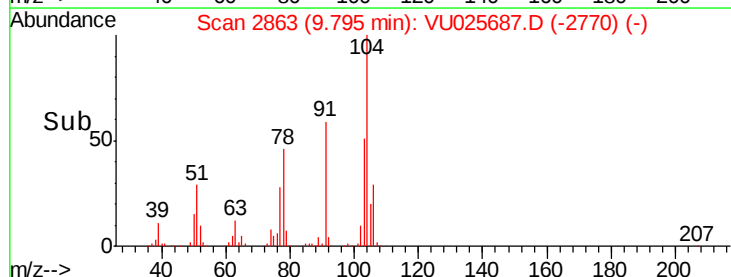
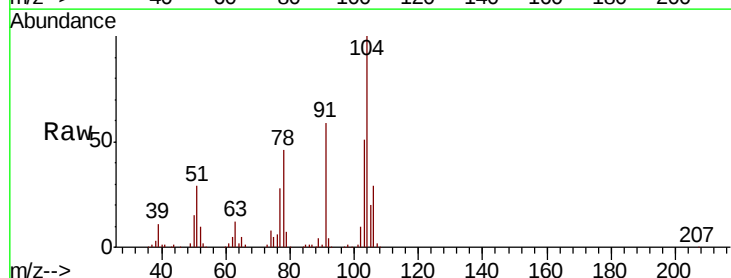
Manual Integrations
APPROVED

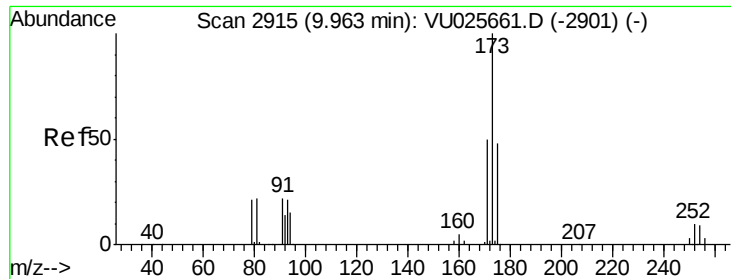
MMDadoda
7/31/2018 3:49:58 PM



#70
Styrene
Concen: 20.86 ug/l
RT: 9.80 min Scan# 2863
Delta R.T. 0.00 min
Lab File: VU025687.D
Acq: 27 Jul 2018 23:07

Tgt Ion	Ion	Ratio	Lower	Upper
104	100			
78	50.4	41.6	62.4	
103	54.9	44.6	66.8	





#71

Bromoform

Concen: 20.00 ug/l

RT: 9.96 min Scan# 2914

Delta R.T. -0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

Instrument :

MSVOA_U

ClientSampleId :

VU0727WBSD02

Tot Ion:173 Resp: 39756

Ion Ratio Lower Upper

173 100

175 47.4 24.0 72.0

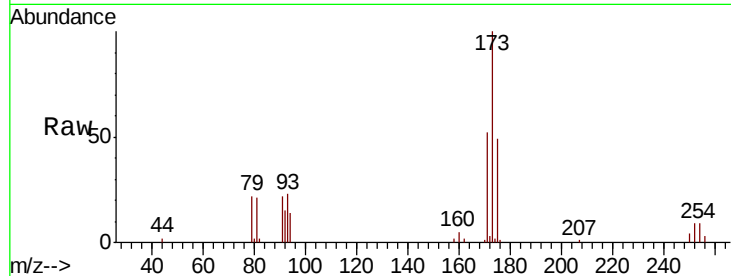
254 0.0 0.0 0.0

Manual Integrations

APPROVED

MMDadoda

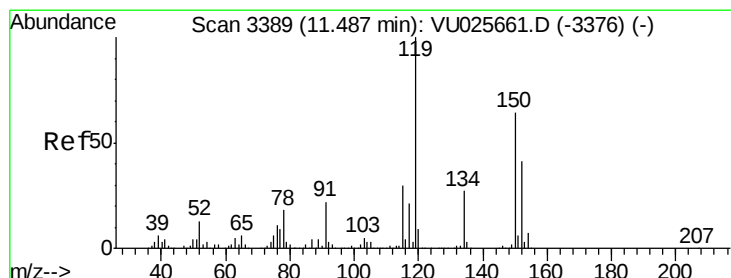
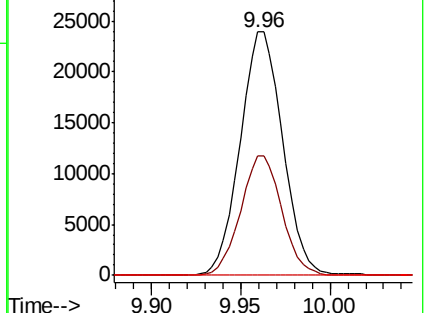
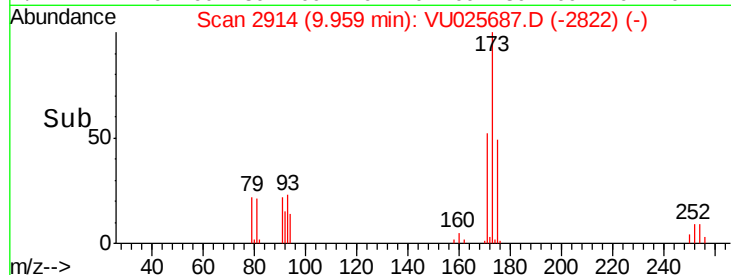
7/31/2018 3:49:58 PM



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

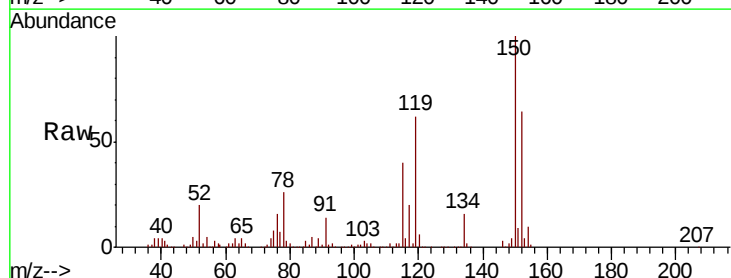
Tgt Ion:152 Resp: 153095

Ion Ratio Lower Upper

152 100

115 67.5 40.1 120.3

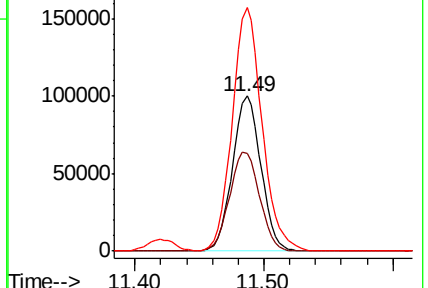
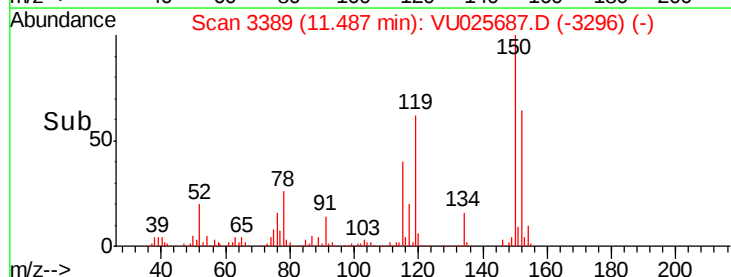
150 164.5 0.0 351.4

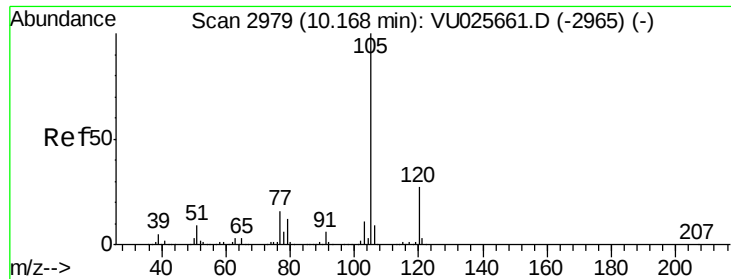


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.83 ug/l

RT: 10.17 min Scan# 2979

Delta R.T. 0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

Instrument :

MSVOA_U

ClientSampleId :

VU0727WBSD02

Tot Ion: 105 Resp: 217686

Ion Ratio Lower Upper

105 100

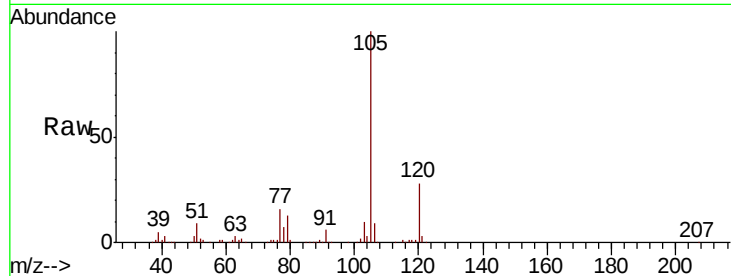
120 27.0 13.5 40.5

Manual Integrations

APPROVED

MMDadoda

7/31/2018 3:49:58 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

10.17

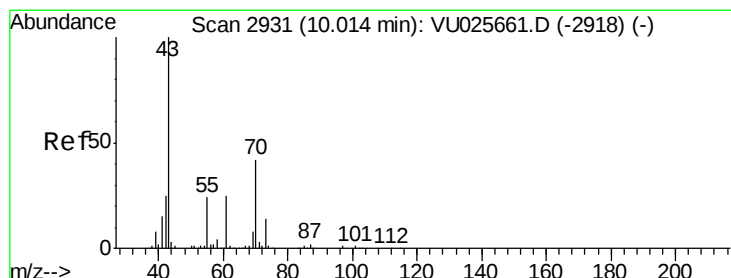
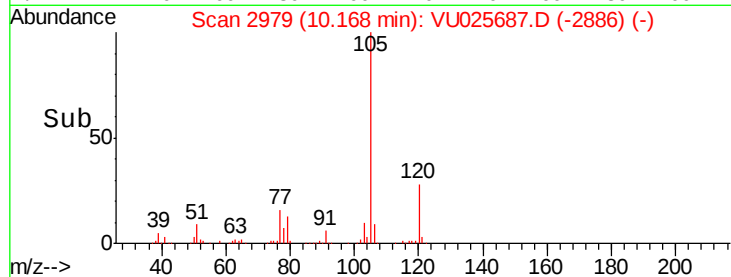
150000

100000

50000

0

Time-->



#74

N-ethyl acetate

Concen: 21.27 ug/l

RT: 10.01 min Scan# 2931

Delta R.T. 0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

Tgt Ion: 43 Resp: 90734

Ion Ratio Lower Upper

43 100

70 41.5 33.4 50.2

55 24.3 19.0 28.6

61 23.7 19.3 28.9

Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

10.01

80000

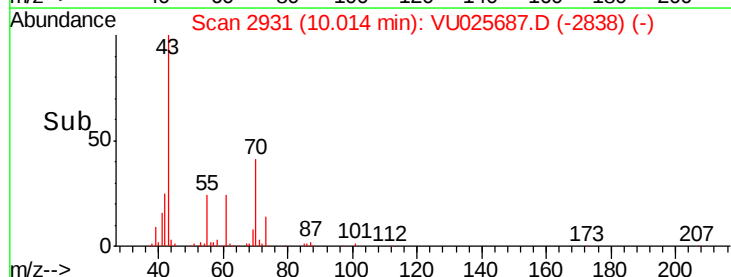
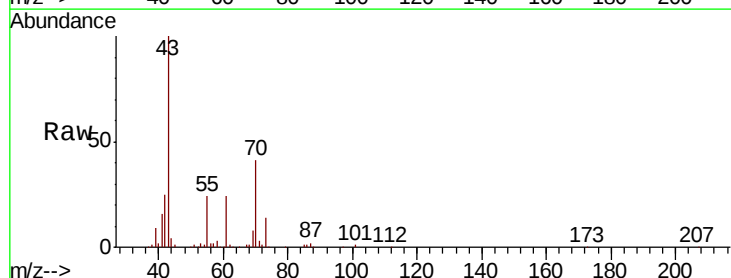
60000

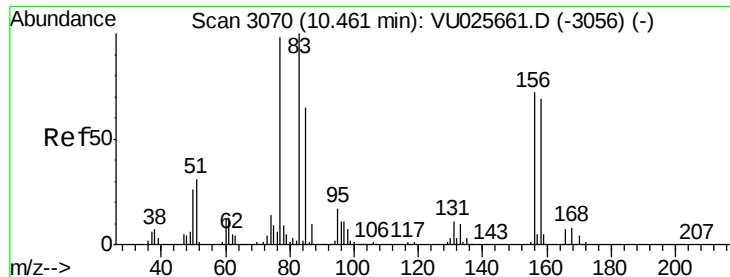
40000

20000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 20.48 ug/l

RT: 10.46 min Scan# 3070

Delta R.T. 0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

Instrument :

MSVOA_U

ClientSampleId :

VU0727WBSD02

Tot Ion: 83 Resp: 74013

Ion Ratio Lower Upper

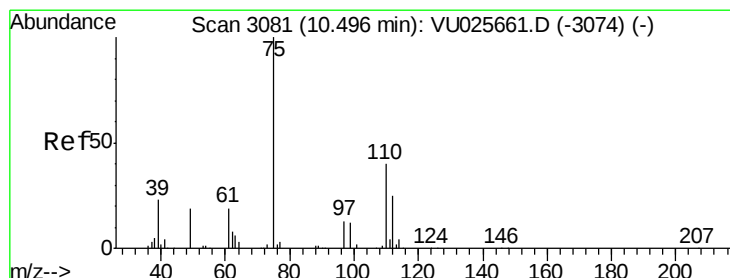
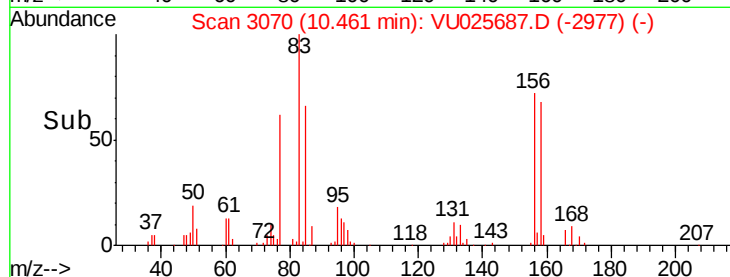
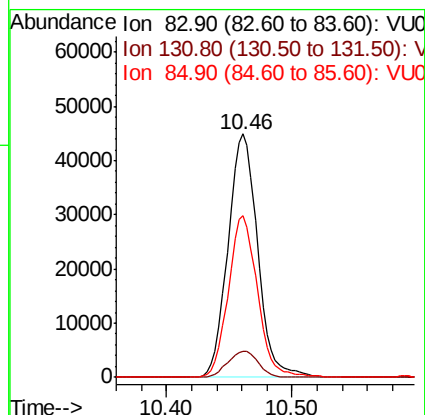
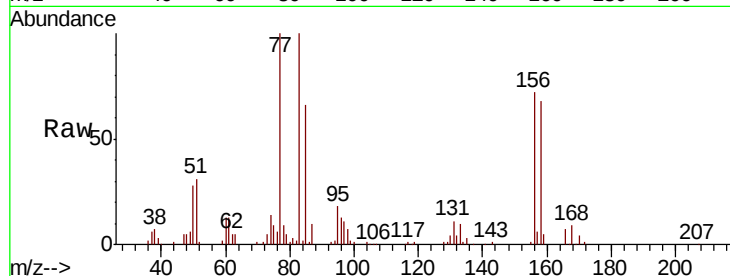
83 100

131 10.8 5.5 16.4

85 65.2 31.6 94.8

Manual Integrations
APPROVED

MMDadoda
7/31/2018 3:49:58 PM



#76

1,2,3-Trichloropropane

Concen: 19.90 ug/l m

RT: 10.50 min Scan# 3081

Delta R.T. 0.00 min

Lab File: VU025687.D

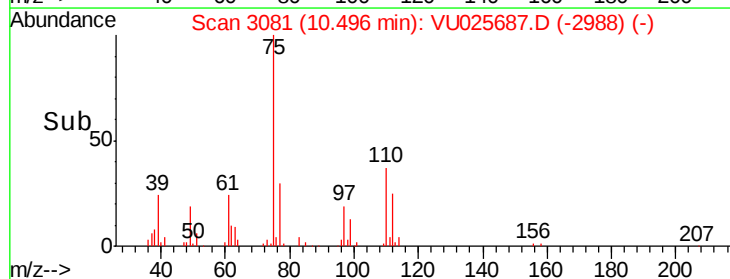
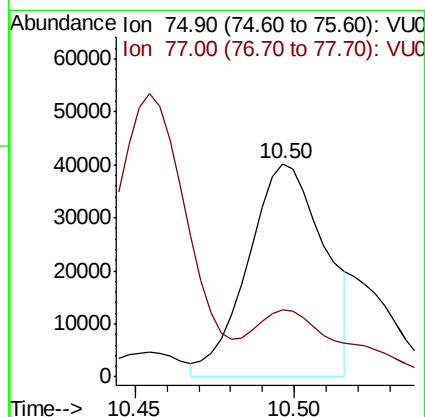
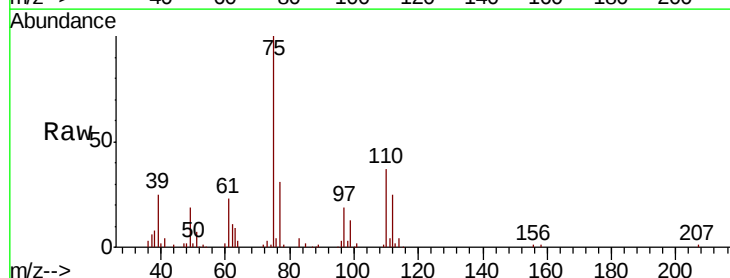
Acq: 27 Jul 2018 23:07

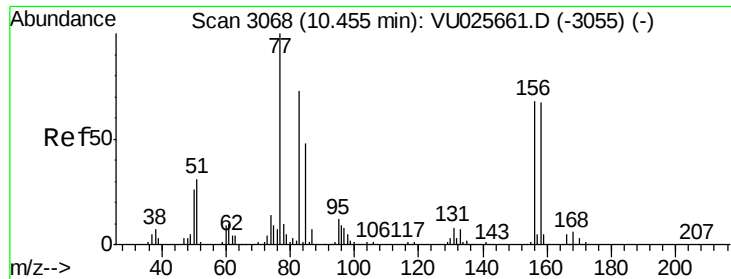
Tgt Ion: 75 Resp: 67115

Ion Ratio Lower Upper

75 100

77 37.4 20.4 61.3





#77

Bromobenzene

Concen: 20.72 ug/l

RT: 10.45 min Scan# 3068

Delta R.T. 0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

Instrument :

MSVOA_U

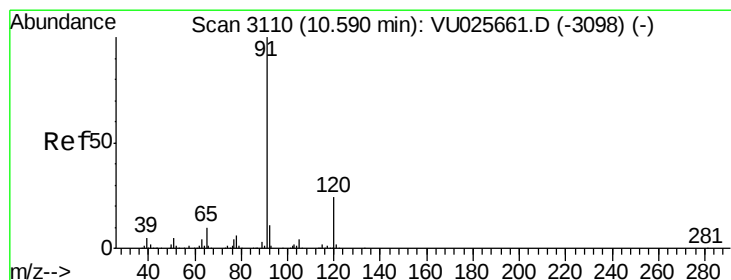
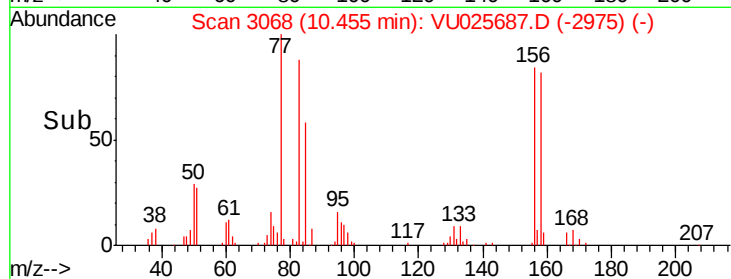
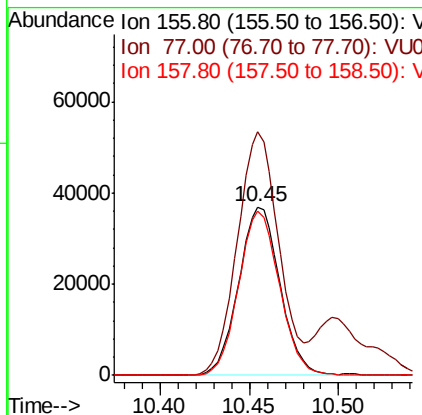
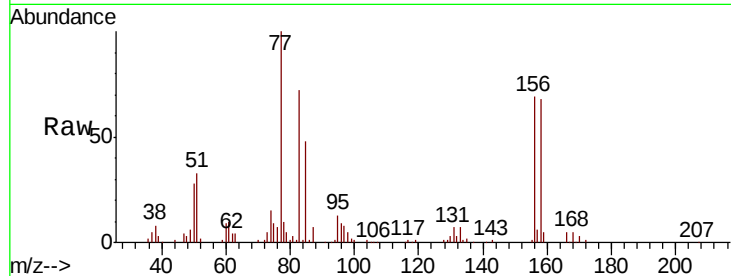
ClientSampleId :

VU0727WBSD02

Tot Ion	Ratio	Lower	Upper
156	100		
77	145.2	73.8	221.4
158	96.3	48.0	144.0

Manual Integrations
APPROVED

MMDadoda
7/31/2018 3:49:58 PM



#78

n-propylbenzene

Concen: 21.04 ug/l

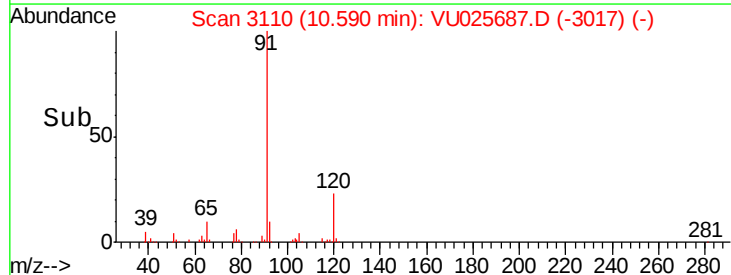
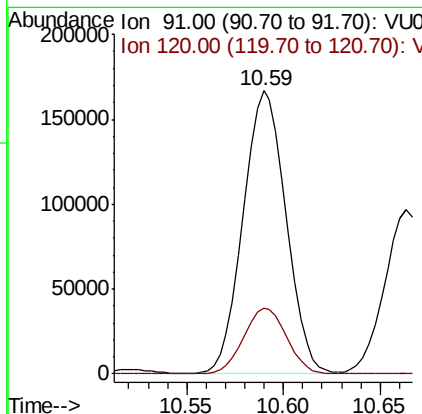
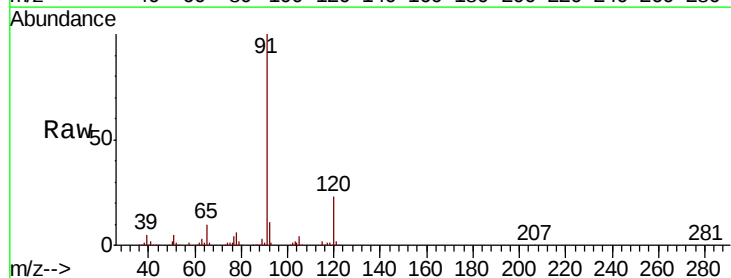
RT: 10.59 min Scan# 3110

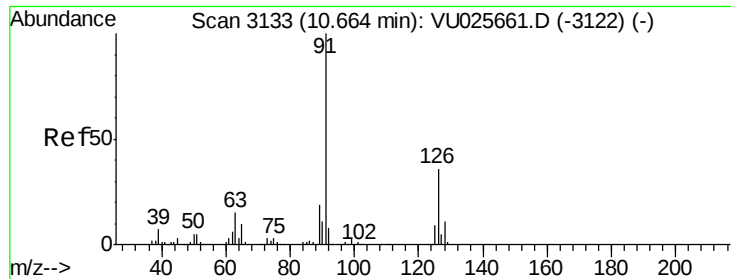
Delta R.T. 0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.5	11.8	35.3





#79

2-Chlorotoluene

Concen: 21.02 ug/l

RT: 10.66 min Scan# 3133

Delta R.T. 0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

Instrument :

MSVOA_U

ClientSampleId :

VU0727WBSD02

Tot Ion: 91 Resp: 150128

Ion Ratio Lower Upper

91 100

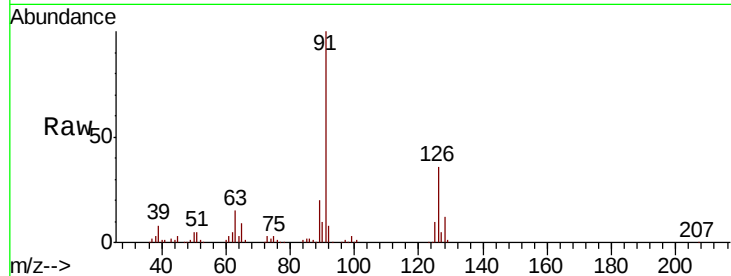
126 35.5 17.5 52.6

Manual Integrations

APPROVED

MMDadoda

7/31/2018 3:49:58 PM



Abundance Ion 91.00 (90.70 to 91.70): VU025661.D (-3122) (-)

Ion 125.90 (125.60 to 126.60): VU025661.D (-3122) (-)

200000

150000

100000

50000

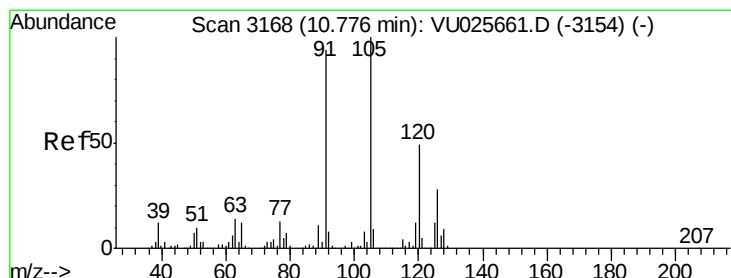
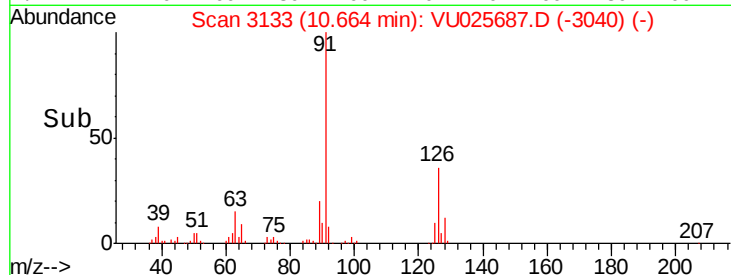
0

10.60

10.66

10.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 21.12 ug/l

RT: 10.78 min Scan# 3168

Delta R.T. 0.00 min

Lab File: VU025687.D

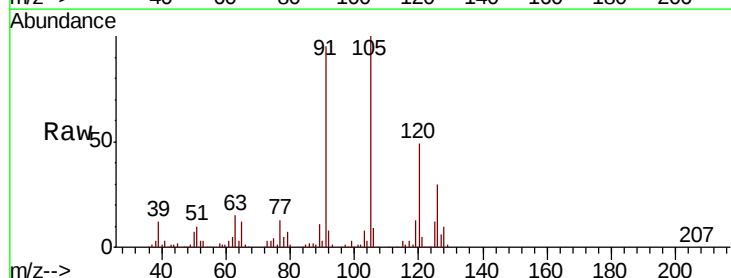
Acq: 27 Jul 2018 23:07

Tgt Ion: 105 Resp: 187431

Ion Ratio Lower Upper

105 100

120 48.4 24.1 72.2



Abundance Ion 105.00 (104.70 to 105.70): VU025661.D (-3154) (-)

Ion 120.00 (119.70 to 120.70): VU025661.D (-3154) (-)

100000

50000

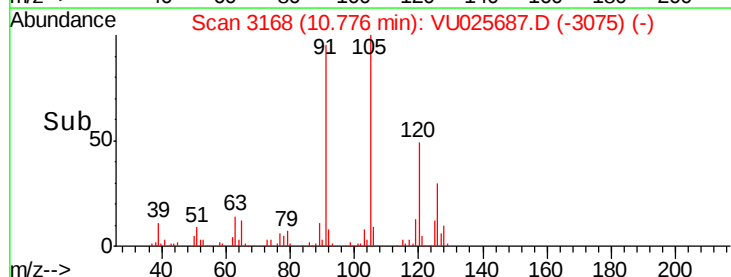
0

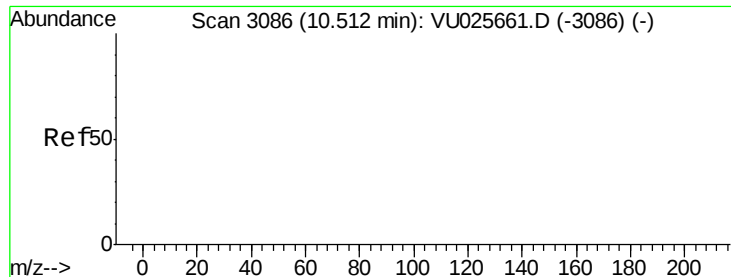
10.70

10.78

10.80

Time-->





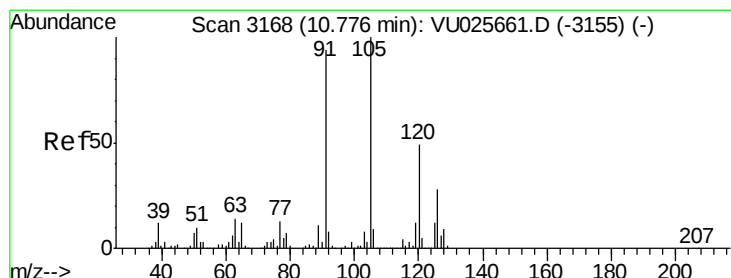
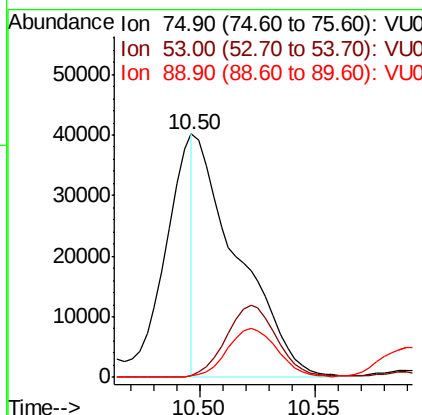
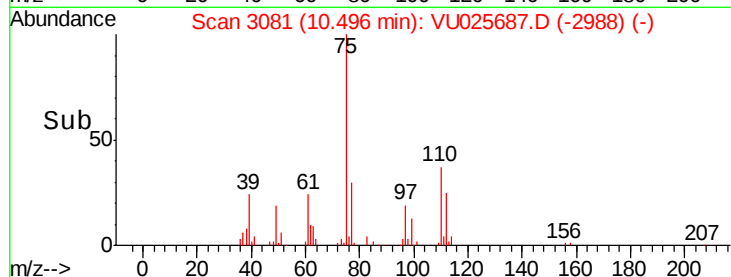
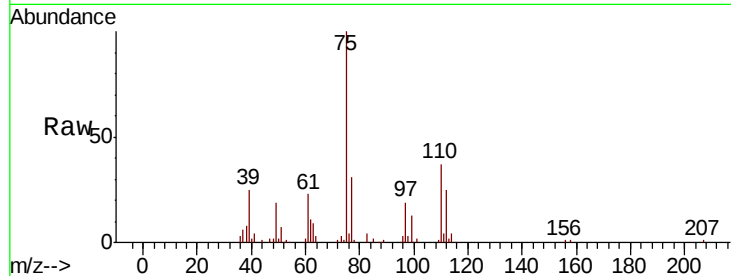
#81
trans-1,4-Dichloro-2-butene
Concen: 38.09 ug/l m
RT: 10.50 min Scan# 3081
Delta R.T. 0.00 min
Lab File: VU025687.D
Acq: 27 Jul 2018 23:07

Instrument :
MSVOA_U
ClientSampleId :
VU0727WBSD02

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

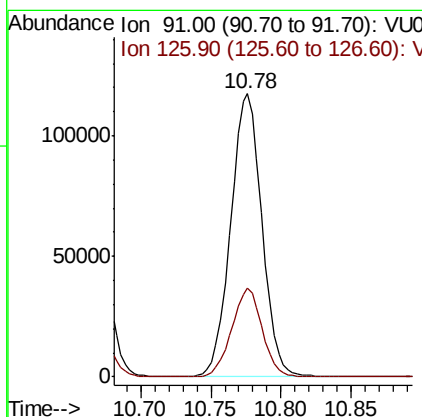
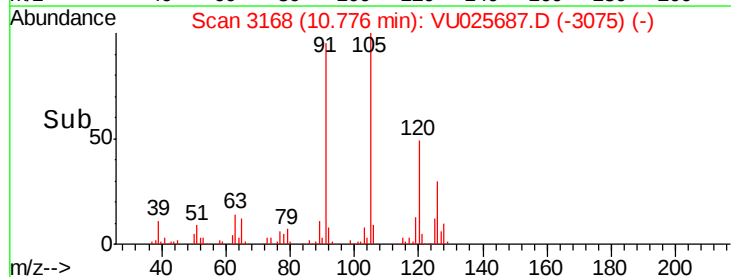
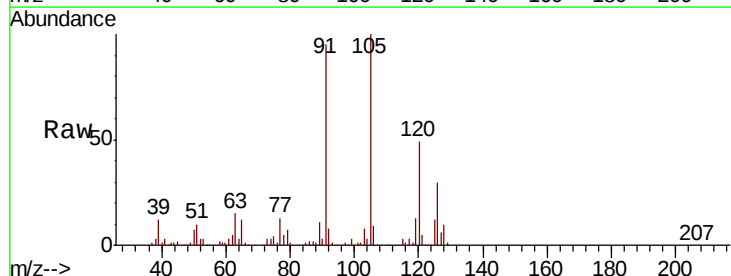
Manual Integrations
APPROVED

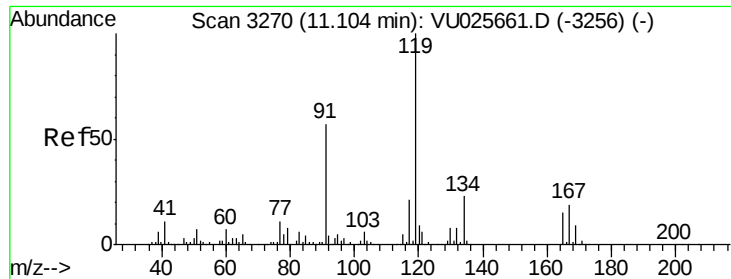
MMDadoda
7/31/2018 3:49:58 PM



#82
4-Chlorotoluene
Concen: 21.50 ug/l
RT: 10.78 min Scan# 3168
Delta R.T. 0.00 min
Lab File: VU025687.D
Acq: 27 Jul 2018 23:07

Tgt Ion	Ratio	Lower	Upper
91	100		
126	30.8	15.3	45.9





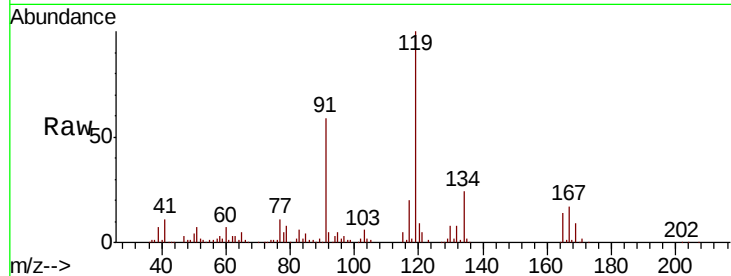
#83
tert-Butylbenzene
Concen: 20.87 ug/l
RT: 11.10 min Scan# 3270
Delta R.T. 0.00 min
Lab File: VU025687.D
Acq: 27 Jul 2018 23:07

Instrument :
MSVOA_U
ClientSampleId :
VU0727WBSD02

Tot Ion	Ratio	Lower	Upper
119	100		
91	57.6	29.7	89.1
134	22.9	11.5	34.5

Manual Integrations
APPROVED

MMDadoda
7/31/2018 3:49:58 PM

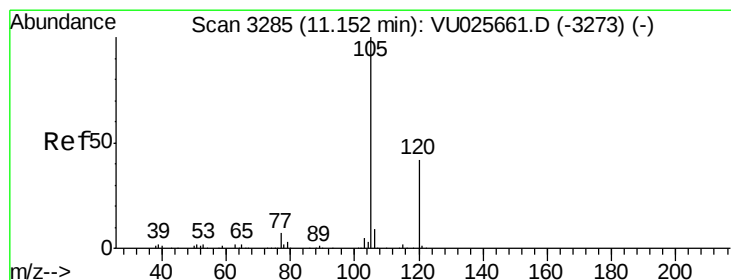
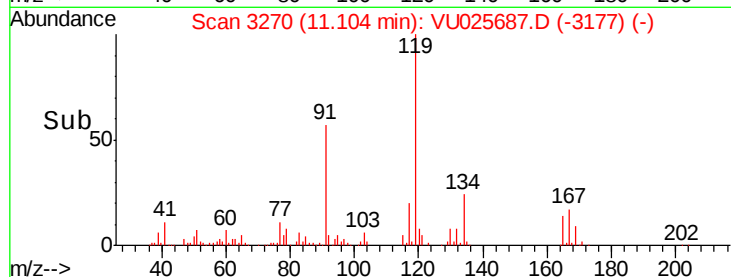
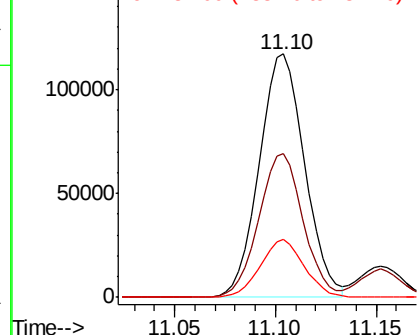


Abundance

Ion 119.00 (118.70 to 119.70): V

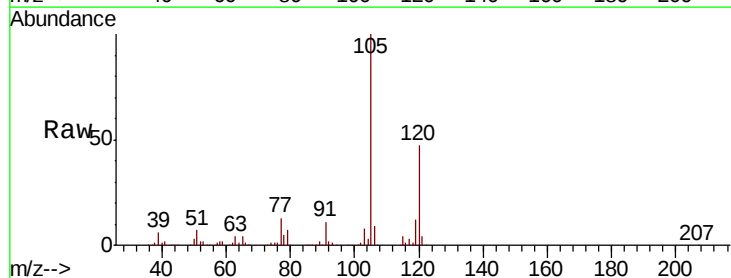
Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84
1,2,4-Trimethylbenzene
Concen: 21.21 ug/l
RT: 11.15 min Scan# 3285
Delta R.T. 0.00 min
Lab File: VU025687.D
Acq: 27 Jul 2018 23:07

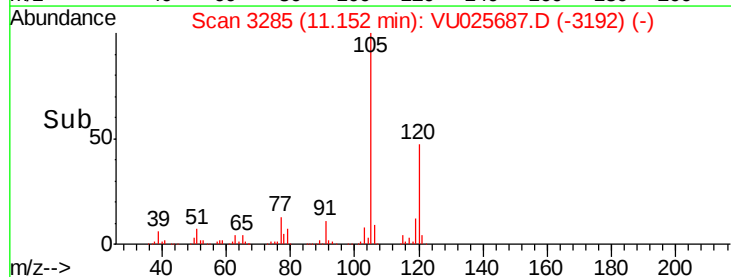
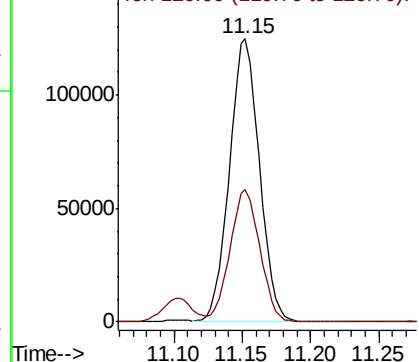
Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.6	22.3	66.8

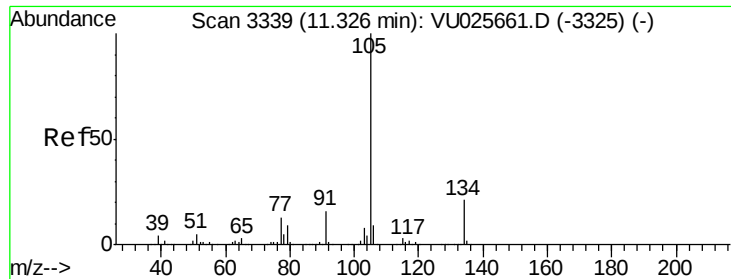


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 20.99 ug/l

RT: 11.33 min Scan# 3339

Delta R.T. 0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

Instrument :

MSVOA_U

ClientSampleId :

VU0727WBSD02

Tot Ion:105 Resp: 225993

Ion Ratio Lower Upper

105 100

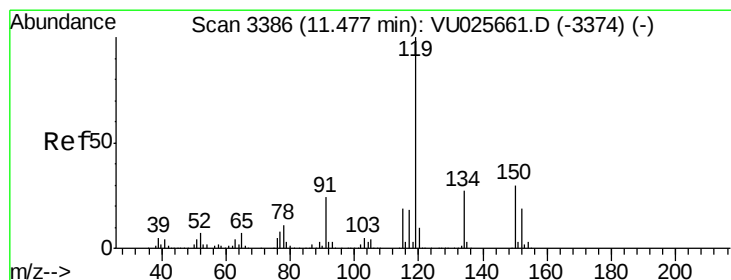
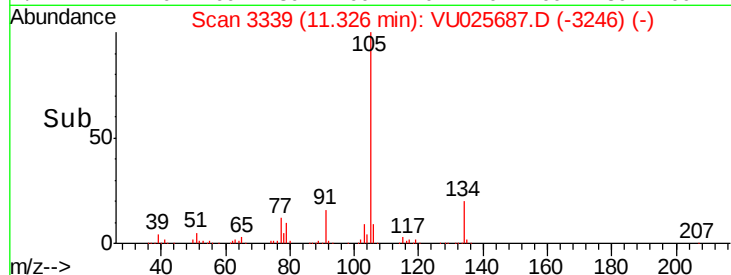
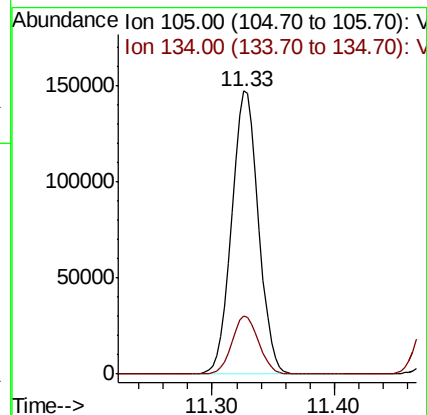
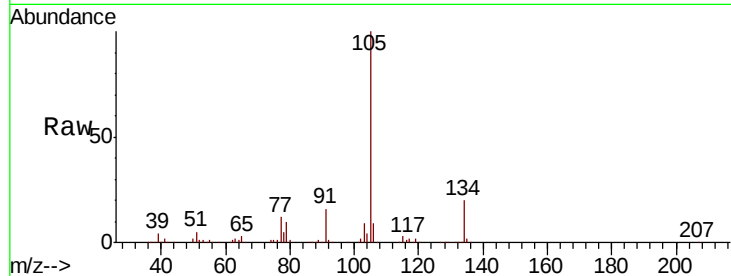
134 20.5 10.3 30.8

Manual Integrations

APPROVED

MMDadoda

7/31/2018 3:49:58 PM



#86

p-Isopropyltoluene

Concen: 20.99 ug/l

RT: 11.48 min Scan# 3386

Delta R.T. 0.00 min

Lab File: VU025687.D

Acq: 27 Jul 2018 23:07

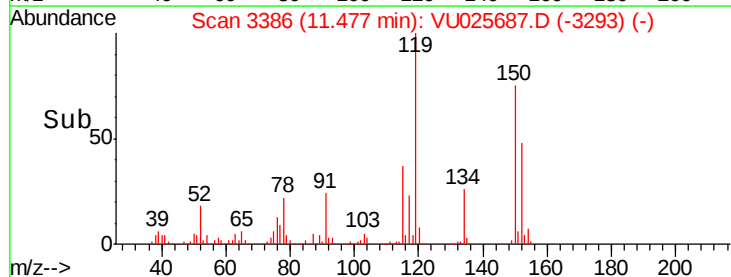
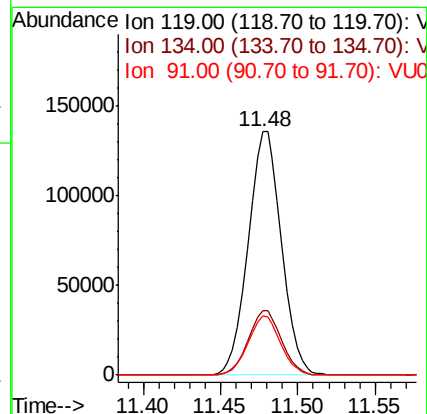
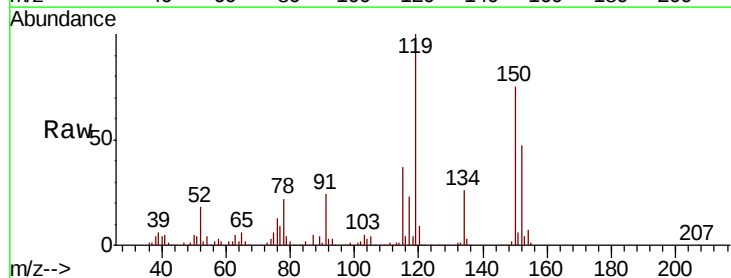
Tgt Ion:119 Resp: 202353

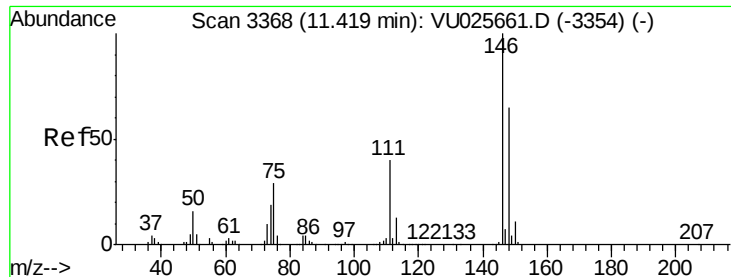
Ion Ratio Lower Upper

119 100

134 26.3 13.2 39.5

91 23.9 12.0 36.1





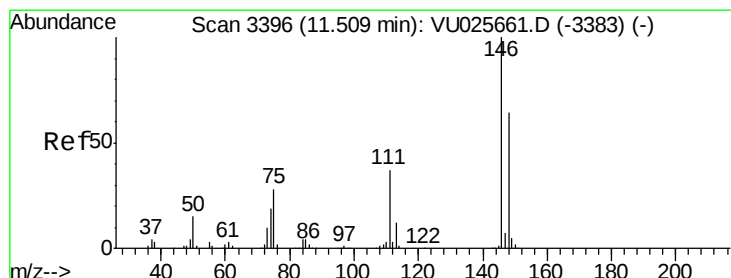
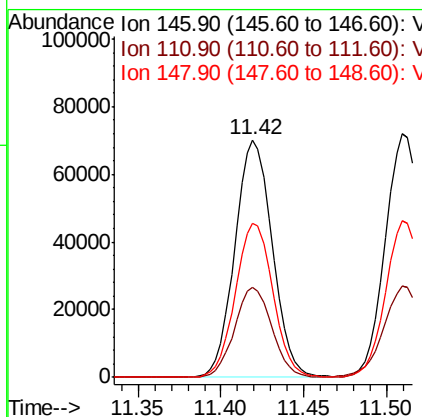
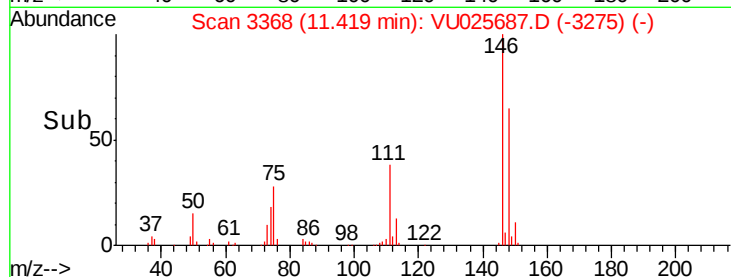
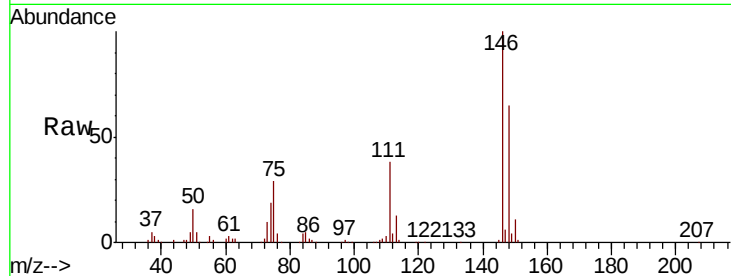
#87
 1,3-Dichlorobenzene
 Concen: 20.63 ug/l
 RT: 11.42 min Scan# 3368
 Delta R.T. 0.00 min
 Lab File: VU025687.D
 Acq: 27 Jul 2018 23:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0727WBSD02

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.8	19.7	59.1
148	65.1	32.1	96.3

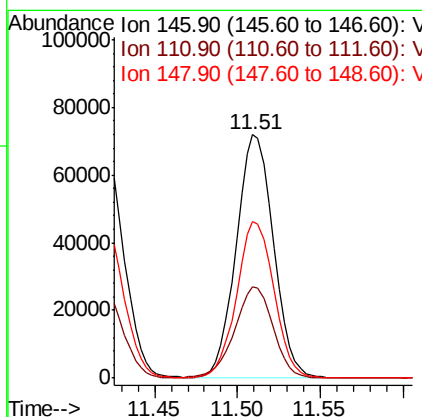
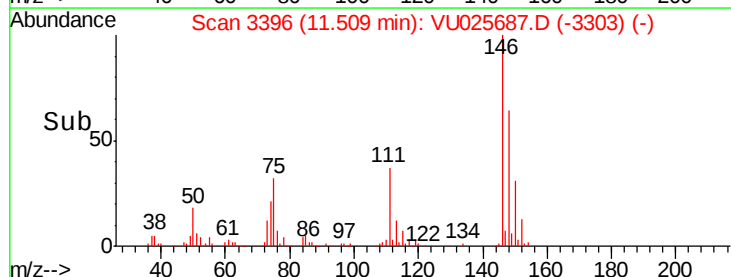
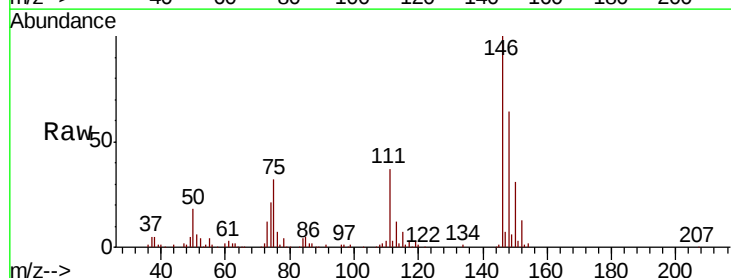
Manual Integrations
 APPROVED

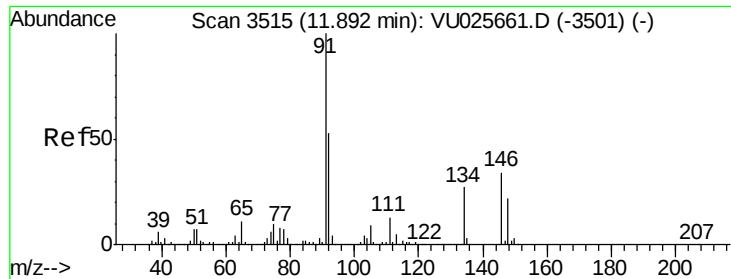
MMDadoda
 7/31/2018 3:49:58 PM



#88
 1,4-Dichlorobenzene
 Concen: 20.14 ug/l
 RT: 11.51 min Scan# 3396
 Delta R.T. 0.00 min
 Lab File: VU025687.D
 Acq: 27 Jul 2018 23:07

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.2	19.4	58.1
148	64.8	31.7	95.1





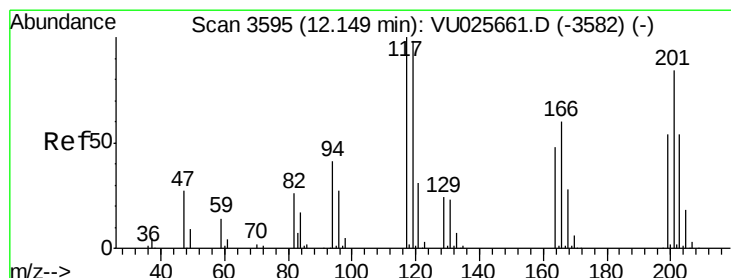
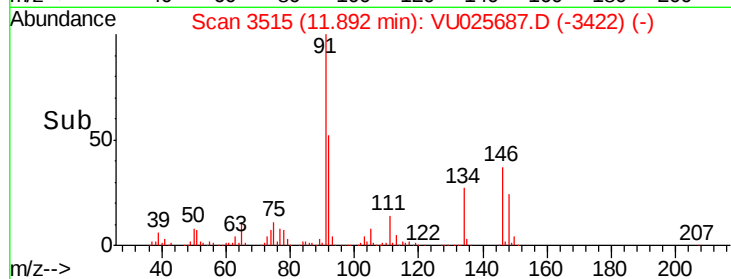
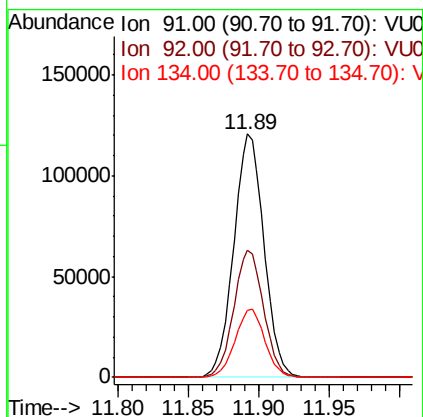
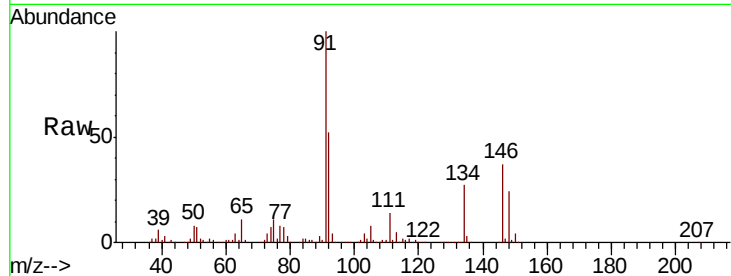
#89
n-Butylbenzene
Concen: 20.38 ug/l
RT: 11.89 min Scan# 3515
Delta R.T. 0.00 min
Lab File: VU025687.D
Acq: 27 Jul 2018 23:07

Instrument :
MSVOA_U
ClientSampleId :
VU0727WBSD02

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.4	26.5	79.5
134	27.4	13.6	40.7

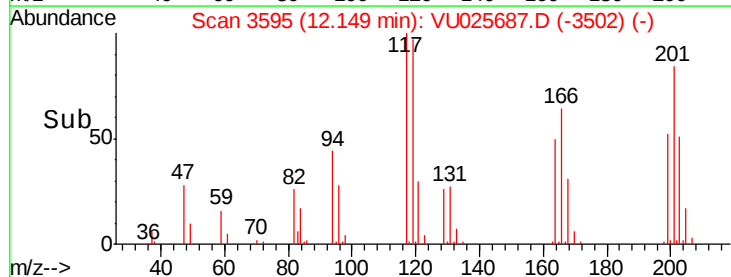
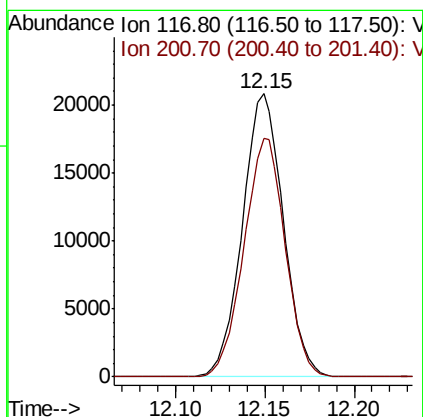
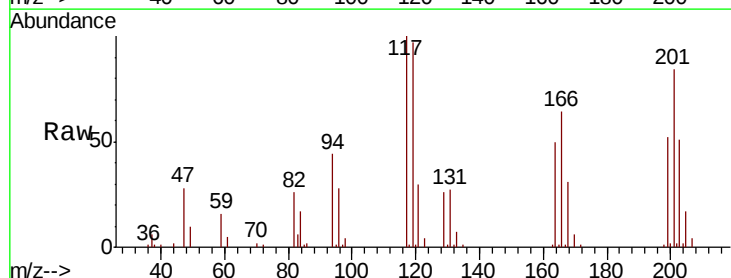
Manual Integrations
APPROVED

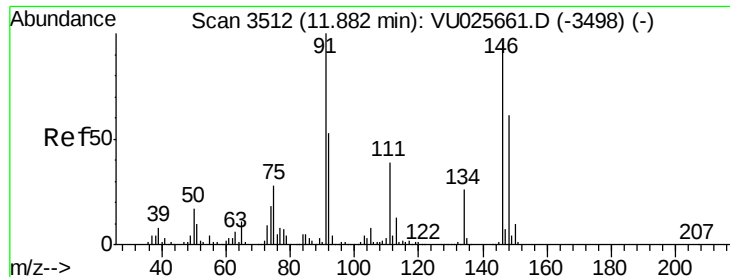
MMDadoda
7/31/2018 3:49:58 PM



#90
Hexachloroethane
Concen: 19.50 ug/l
RT: 12.15 min Scan# 3595
Delta R.T. 0.00 min
Lab File: VU025687.D
Acq: 27 Jul 2018 23:07

Tgt Ion	Ratio	Lower	Upper
117	100		
201	84.8	42.5	127.6





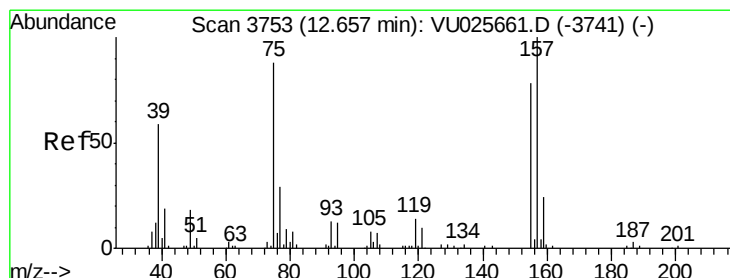
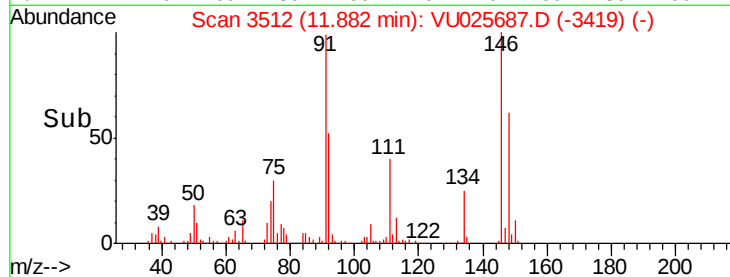
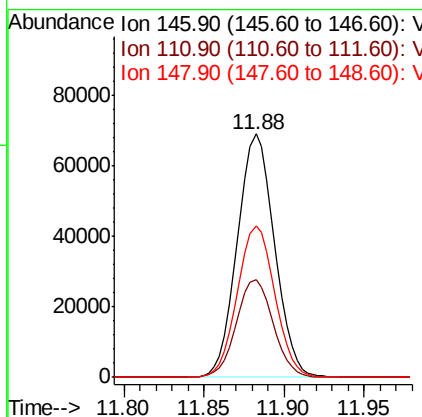
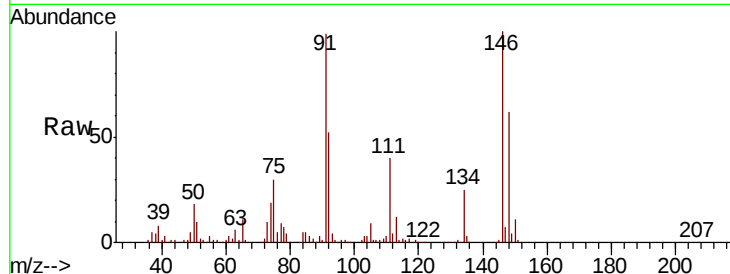
#91
 1,2-Dichlorobenzene
 Concen: 20.87 ug/l
 RT: 11.88 min Scan# 3512
 Delta R.T. 0.00 min
 Lab File: VU025687.D
 Acq: 27 Jul 2018 23:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0727WBSD02

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.7	20.6	61.8
148	62.8	31.5	94.5

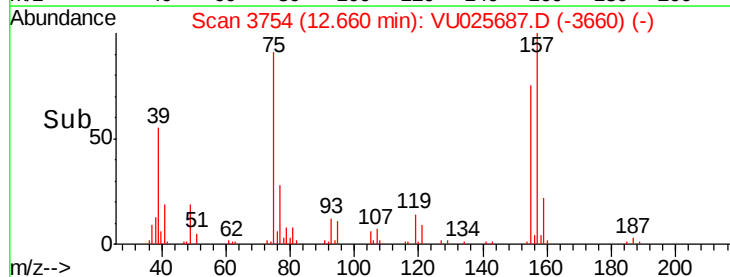
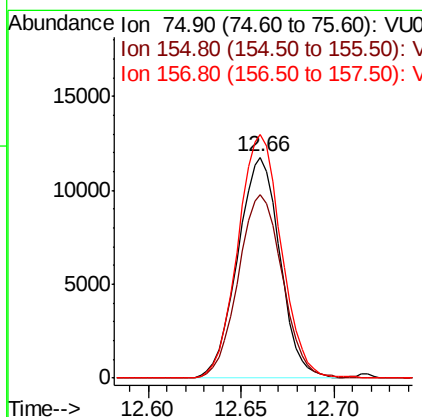
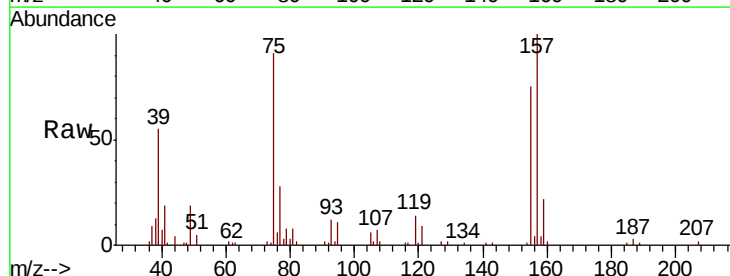
Manual Integrations
 APPROVED

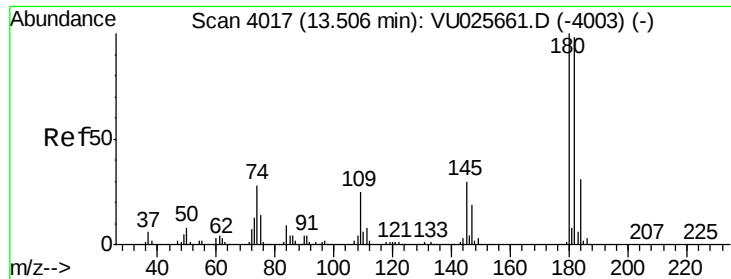
MMDadoda
 7/31/2018 3:49:58 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.78 ug/l
 RT: 12.66 min Scan# 3754
 Delta R.T. 0.00 min
 Lab File: VU025687.D
 Acq: 27 Jul 2018 23:07

Tgt Ion	Ratio	Lower	Upper
75	100		
155	86.7	44.5	133.3
157	113.4	57.0	170.8





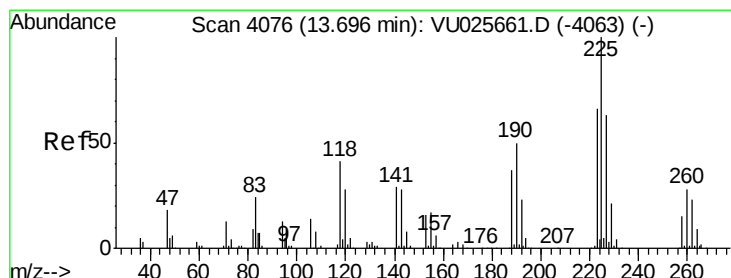
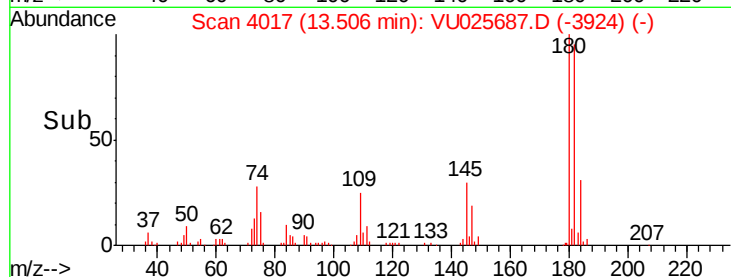
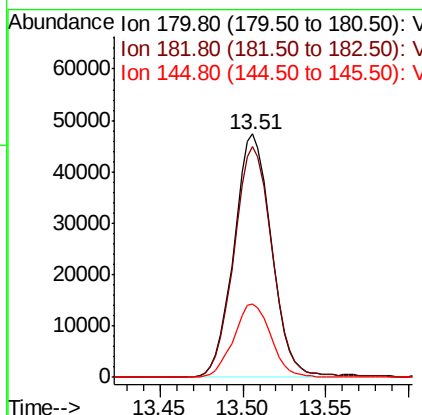
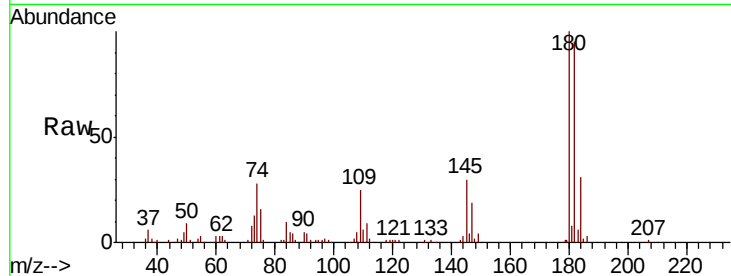
#93
 1,2,4-Trichlorobenzene
 Concen: 21.10 ug/l
 RT: 13.51 min Scan# 4017
 Delta R.T. 0.00 min
 Lab File: VU025687.D
 Acq: 27 Jul 2018 23:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0727WBSD02

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.7	47.3	141.9
145	29.9	14.9	44.7

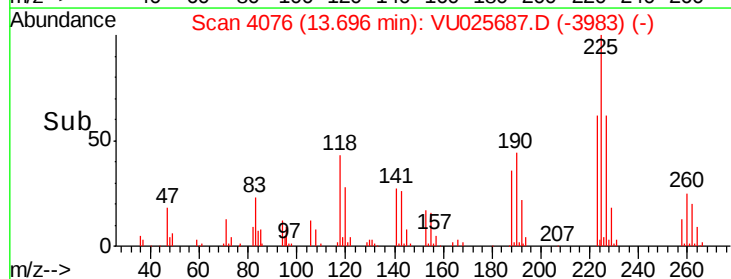
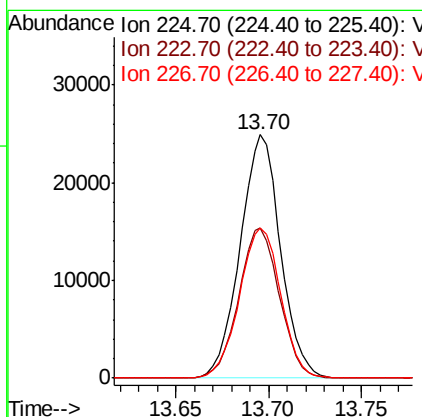
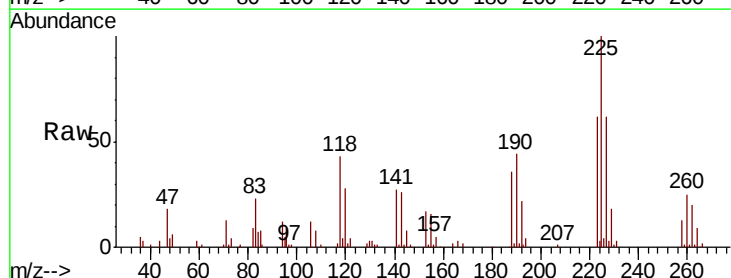
Manual Integrations
 APPROVED

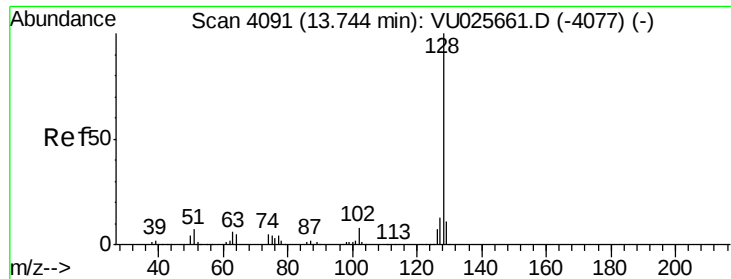
MMDadoda
 7/31/2018 3:49:58 PM



#94
 Hexachlorobutadiene
 Concen: 20.14 ug/l
 RT: 13.70 min Scan# 4076
 Delta R.T. 0.00 min
 Lab File: VU025687.D
 Acq: 27 Jul 2018 23:07

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.0	31.9	95.7
227	63.1	32.3	96.9





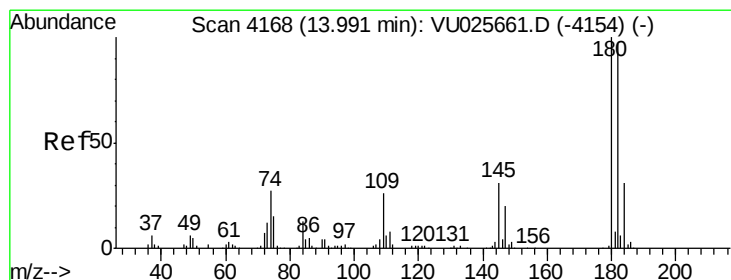
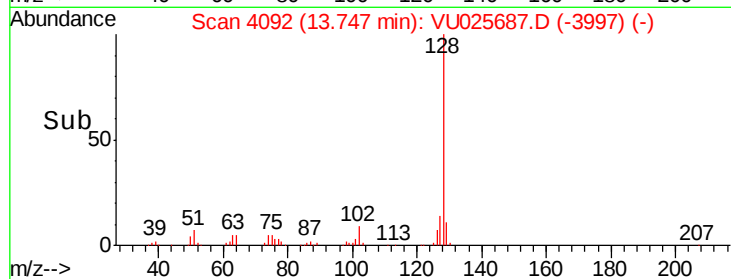
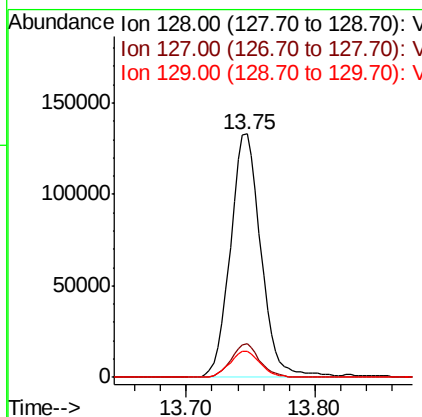
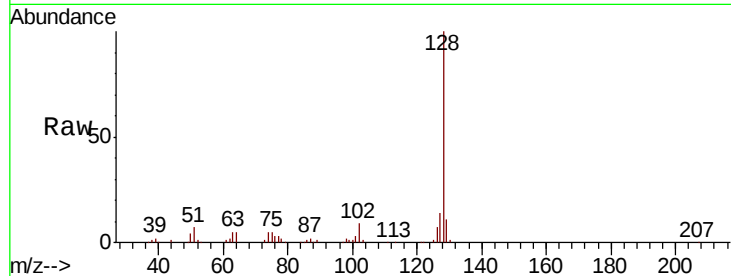
#95
Naphthalene
Concen: 20.09 ug/l
RT: 13.75 min Scan# 4092
Delta R.T. 0.00 min
Lab File: VU025687.D
Acq: 27 Jul 2018 23:07

Instrument :
MSVOA_U
ClientSampleId :
VU0727WBSD02

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.5	15.7
129	10.8	8.3	12.5

Manual Integrations
APPROVED

MMDadoda
7/31/2018 3:49:58 PM



#96
1,2,3-Trichlorobenzene
Concen: 21.53 ug/l
RT: 13.99 min Scan# 4168
Delta R.T. 0.00 min
Lab File: VU025687.D
Acq: 27 Jul 2018 23:07

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.3	47.8	143.3
145	31.5	15.6	46.8

