

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091218\
 Data File : VU026678.D
 Acq On : 11 Sep 2018 11:20
 Operator : MD/SY
 Sample : VSTDIC020
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 9/13/2018 4:48:53 PM

Quant Time: Sep 12 05:20:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U091218W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 04:37:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	101424	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	153571	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	145217	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	82339	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	25715	16.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	33.42%	
35) Dibromofluoromethane	4.89	113	21448	17.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	34.24%	
50) Toluene-d8	7.57	98	77047	16.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	33.26%	
62) 4-Bromofluorobenzene	10.31	95	26588	15.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	31.66%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	21669	19.77	ug/l	98
3) Chloromethane	1.33	50	30152	19.70	ug/l	99
4) Vinyl Chloride	1.40	62	30824	19.43	ug/l	99
5) Bromomethane	1.62	94	20065	20.19	ug/l	95
6) Chloroethane	1.70	64	19393	19.21	ug/l	97
7) Trichlorofluoromethane	1.88	101	41529	20.02	ug/l	100
8) Diethyl Ether	2.10	74	17480	19.23	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	2.29	101	23869	19.38	ug/l	97
10) Methyl Iodide	2.41	142	13723	14.79	ug/l	98
11) Tert butyl alcohol	2.82	59	33661	89.76	ug/l	99
12) 1,1-Dichloroethene	2.28	96	22653	19.45	ug/l	99
13) Acrolein	2.20	56	23236	91.94	ug/l	99
14) Allyl chloride	2.59	41	38602	18.41	ug/l	98
15) Acrylonitrile	2.94	53	79257	98.55	ug/l	100
16) Acetone	2.32	43	82802	95.06	ug/l	98
17) Carbon Disulfide	2.48	76	69306	18.71	ug/l	99
18) Methyl Acetate	2.62	43	36759	19.56	ug/l	99
19) Methyl tert-butyl Ether	3.00	73	76520	19.09	ug/l	100
20) Methylene Chloride	2.70	84	26941	19.07	ug/l	98
21) trans-1,2-Dichloroethene	2.98	96	23603	19.24	ug/l	99
22) Diisopropyl ether	3.57	45	87957	20.10	ug/l	95
23) Vinyl Acetate	3.53	43	368577	99.13	ug/l	99
24) 1,1-Dichloroethane	3.45	63	48301	19.56	ug/l	99
25) 2-Butanone	4.26	43	113750	96.94	ug/l	97
26) 2,2-Dichloropropane	4.23	77	40347	19.88	ug/l	99
27) cis-1,2-Dichloroethene	4.23	96	27698	19.59	ug/l	99
28) Bromochloromethane	4.55	49	23236	19.68	ug/l	98
29) Tetrahydrofuran	4.64	42	69861	98.75	ug/l	99
30) Chloroform	4.67	83	47273	19.47	ug/l	100
31) Cyclohexane	5.00	56	43611	17.07	ug/l	95
32) 1,1,1-Trichloroethane	4.92	97	39988	19.89	ug/l	99
36) 1,1-Dichloropropene	5.14	75	33735	19.57	ug/l	98
37) Ethyl Acetate	4.38	43	40503	19.53	ug/l	98
38) Carbon Tetrachloride	5.14	117	36207	19.88	ug/l	97

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.42	83	39207	19.15	ug/l	100
40) Benzene	5.39	78	106643	19.92	ug/l	100
41) Methacrylonitrile	4.55	41	21874	20.33	ug/l	99
42) 1,2-Dichloroethane	5.41	62	38264	20.04	ug/l	99
43) Isopropyl Acetate	5.55	43	63292	20.05	ug/l	99
44) Trichloroethene	6.19	130	25946	19.58	ug/l	96
45) 1,2-Dichloropropane	6.44	63	28665	19.69	ug/l	99
46) Dibromomethane	6.56	93	18805	20.02	ug/l	97
47) Bromodichloromethane	6.76	83	36609	19.79	ug/l	95
48) Methyl methacrylate	6.62	41	30058	19.29	ug/l	99
49) 1,4-Dioxane	6.62	88	14061	389.40	ug/l	98
51) 4-Methyl-2-Pentanone	7.46	43	204990	97.07	ug/l	99
52) Toluene	7.64	92	63689	19.97	ug/l	99
53) t-1,3-Dichloropropene	7.88	75	39216	19.11	ug/l	98
54) cis-1,3-Dichloropropene	7.27	75	43240	19.63	ug/l	98
55) 1,1,2-Trichloroethane	8.07	97	27015	19.77	ug/l	97
56) Ethyl methacrylate	8.02	69	38561	19.33	ug/l	99
57) 1,3-Dichloropropane	8.24	76	47144	20.24	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.13	63	97677	99.30	ug/l	99
59) 2-Hexanone	8.36	43	160185	96.38	ug/l	99
60) Dibromochloromethane	8.48	129	29009	19.60	ug/l	98
61) 1,2-Dibromoethane	8.59	107	29032	19.58	ug/l	99
64) Tetrachloroethene	8.23	164	22742	19.68	ug/l	97
65) Chlorobenzene	9.12	112	71093	19.71	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.21	131	26211	19.75	ug/l	98
67) Ethyl Benzene	9.25	91	116323	19.57	ug/l	99
68) m/p-Xylenes	9.38	106	90684	40.11	ug/l	98
69) o-Xylene	9.78	106	44319	20.12	ug/l	99
70) Styrene	9.79	104	71466	19.82	ug/l	99
71) Bromoform	9.96	173	22538	19.52	ug/l #	100
73) Isopropylbenzene	10.17	105	117611	20.96	ug/l	100
74) N-amyl acetate	10.01	43	52902	19.97	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.46	83	45110	19.73	ug/l	100
76) 1,2,3-Trichloropropane	10.49	75	36874m	17.61	ug/l	
77) Bromobenzene	10.46	156	31286	20.52	ug/l	98
78) n-propylbenzene	10.59	91	135284	20.73	ug/l	99
79) 2-Chlorotoluene	10.66	91	83845	20.73	ug/l	98
80) 1,3,5-Trimethylbenzene	10.77	105	98594	20.91	ug/l	99
81) trans-1,4-Dichloro-2-buten	10.51	75	10820m	11.55	ug/l	
82) 4-Chlorotoluene	10.77	91	94325	20.75	ug/l	99
83) tert-Butylbenzene	11.10	119	98586	20.60	ug/l	99
84) 1,2,4-Trimethylbenzene	11.15	105	100792	21.19	ug/l	99
85) sec-Butylbenzene	11.32	105	118230	20.80	ug/l	99
86) p-Isopropyltoluene	11.48	119	102574	20.70	ug/l	99
87) 1,3-Dichlorobenzene	11.42	146	54854	19.28	ug/l	98
88) 1,4-Dichlorobenzene	11.51	146	55909	18.92	ug/l	98
89) n-Butylbenzene	11.89	91	87077	20.05	ug/l	99
90) Hexachloroethane	12.15	117	19639	19.58	ug/l	99
91) 1,2-Dichlorobenzene	11.88	146	56802	19.85	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.66	75	9717	21.19	ug/l	96

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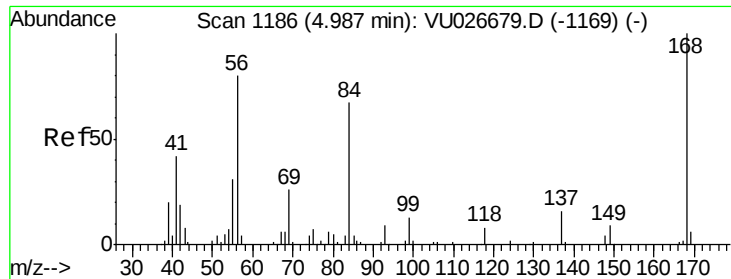
Manual Integrations
APPROVED

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9/13/2018 4:48:53 PM

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U091218W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 12 04:37:08 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.50	180	36315	19.11	ug/l	98
94) Hexachlorobutadiene	13.69	225	19304	19.75	ug/l	98
95) Naphthalene	13.74	128	115096	19.99	ug/l	100
96) 1,2,3-Trichlorobenzene	13.99	180	39949	20.13	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU026678.D

Acq: 11 Sep 2018 11:20

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 101424

Ion Ratio Lower Upper

168 100

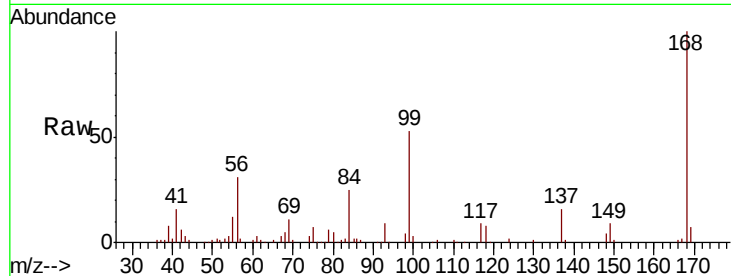
99 53.1 42.0 63.0

Manual Integrations

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9/13/2018 4:48:53 PM



Abundance Ion 167.90 (167.60 to 168.60): VU026678.D (-1093) (-)

Ion 98.90 (98.60 to 99.60): VU026678.D (-1093) (-)

4.99

50000

40000

30000

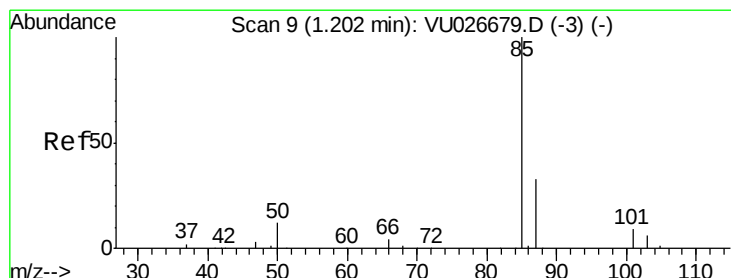
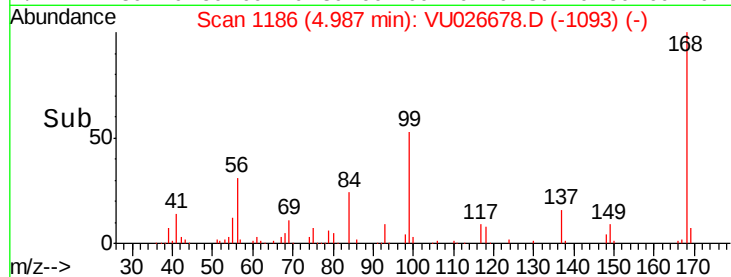
20000

10000

0

4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 19.77 ug/l

RT: 1.21 min Scan# 10

Delta R.T. 0.00 min

Lab File: VU026678.D

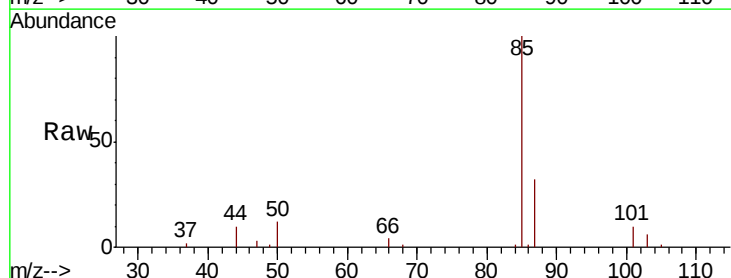
Acq: 11 Sep 2018 11:20

Tgt Ion: 85 Resp: 21669

Ion Ratio Lower Upper

85 100

87 32.1 16.6 49.7



Abundance Ion 84.90 (84.60 to 85.60): VU026678.D (-1) (-)

Ion 86.90 (86.60 to 87.60): VU026678.D (-1) (-)

1.21

25000

20000

15000

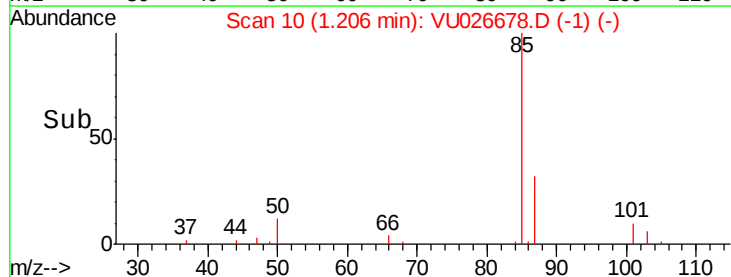
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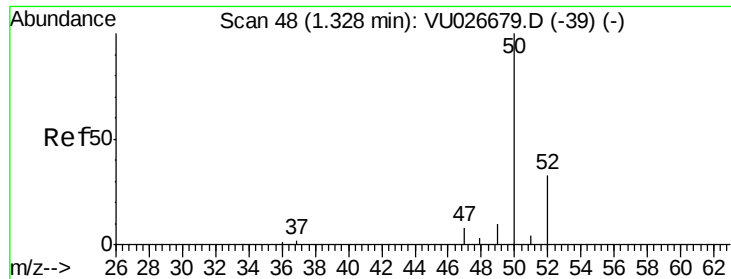
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0

1.15 1.20 1.25

Time-->





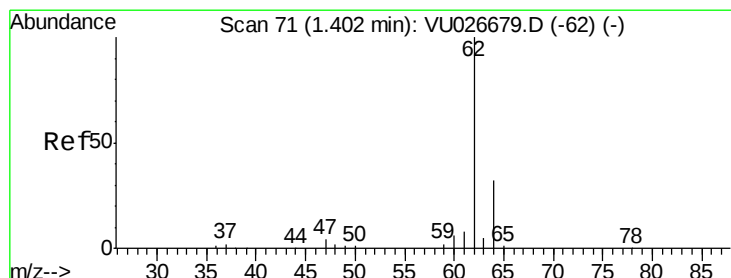
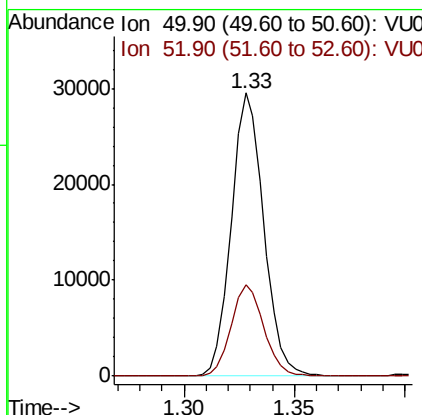
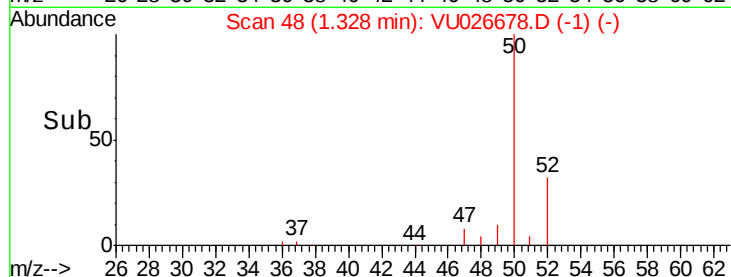
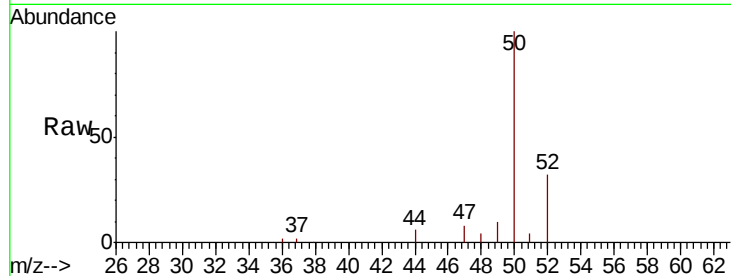
#3
 Chloromethane
 Concen: 19.70 ug/l
 RT: 1.33 min Scan# 48
 Delta R.T. 0.00 min
 Lab File: VU026678.D
 Acq: 11 Sep 2018 11:20

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
50	100		
52	32.2	26.3	39.5

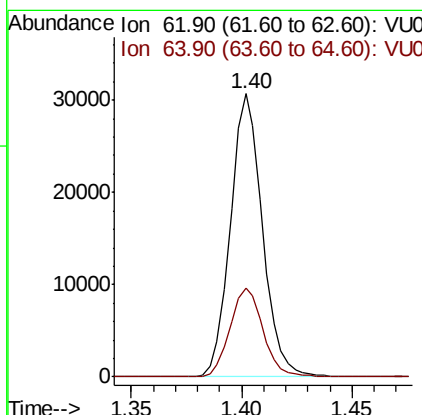
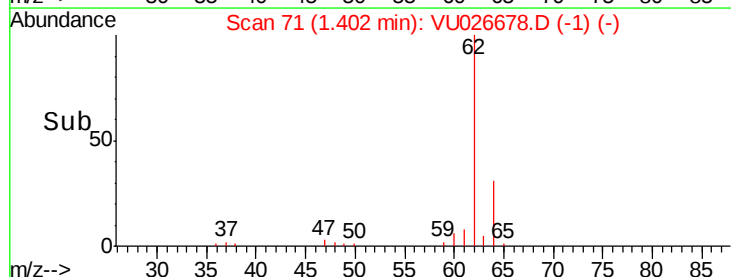
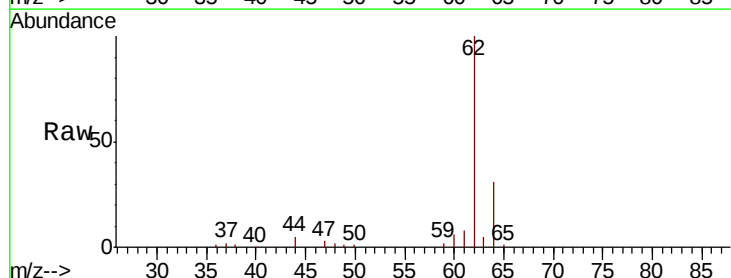
Manual Integrations
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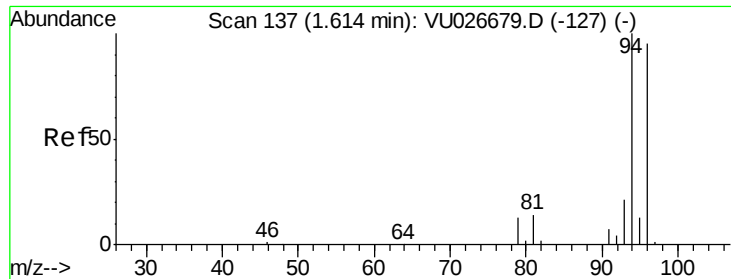
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#4
 Vinyl Chloride
 Concen: 19.43 ug/l
 RT: 1.40 min Scan# 71
 Delta R.T. 0.00 min
 Lab File: VU026678.D
 Acq: 11 Sep 2018 11:20

Tgt Ion	Ratio	Lower	Upper
62	100		
64	31.4	25.6	38.4





#5

Bromomethane

Concen: 20.19 ug/l

RT: 1.62 min Scan# 140

Delta R.T. 0.01 min

Lab File: VU026678.D

Acq: 11 Sep 2018 11:20

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tot Ion: 94 Resp: 20065

Ion Ratio Lower Upper

94 100

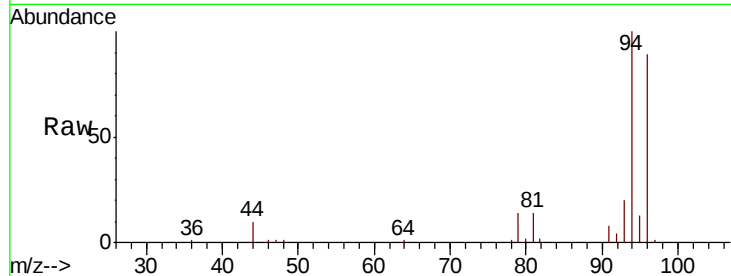
96 89.4 75.8 113.6

Manual Integrations

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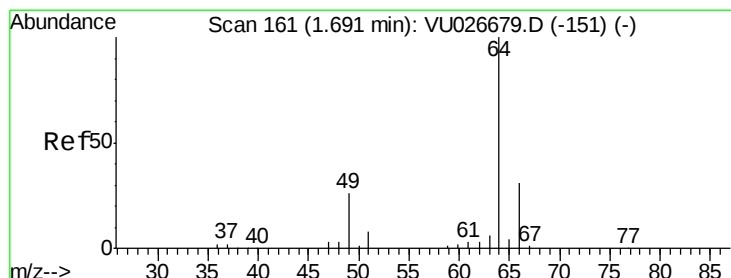
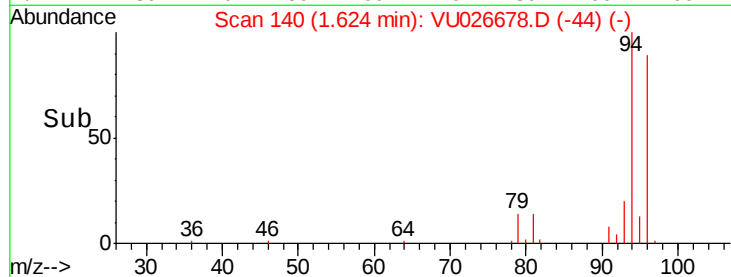
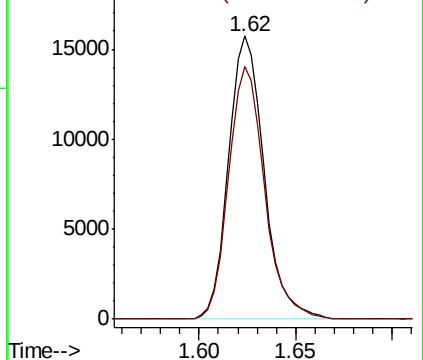
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Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: 19.21 ug/l

RT: 1.70 min Scan# 163

Delta R.T. 0.01 min

Lab File: VU026678.D

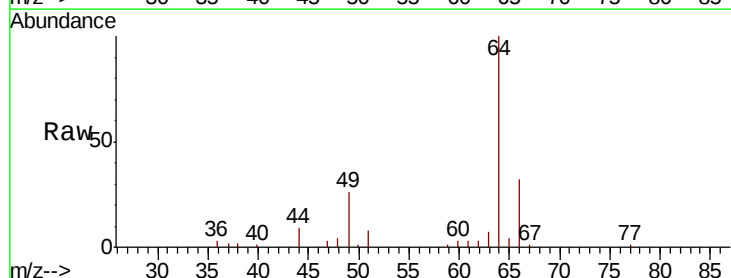
Acq: 11 Sep 2018 11:20

Tgt Ion: 64 Resp: 19393

Ion Ratio Lower Upper

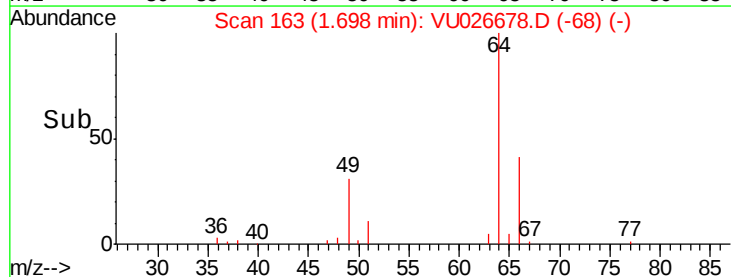
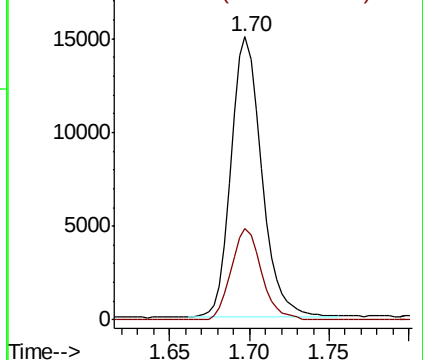
64 100

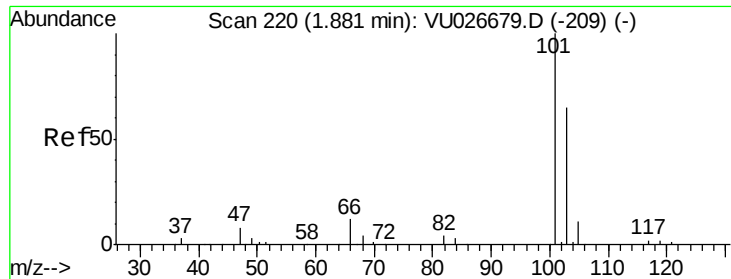
66 32.5 24.7 37.1



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0





#7

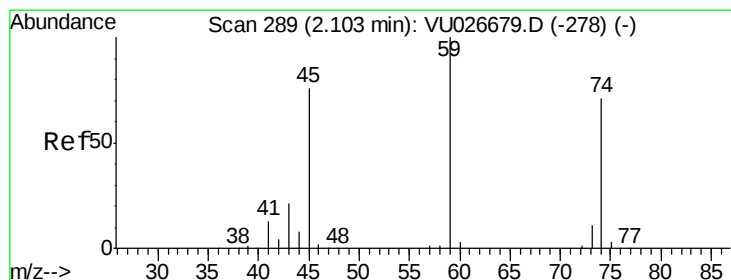
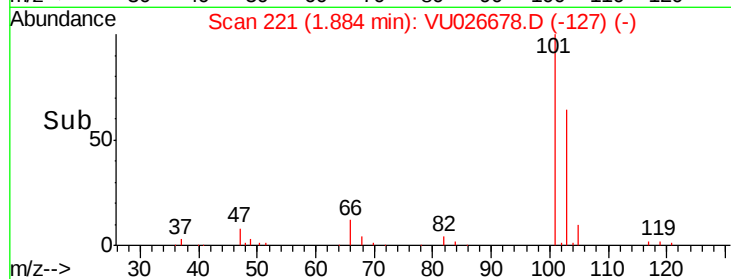
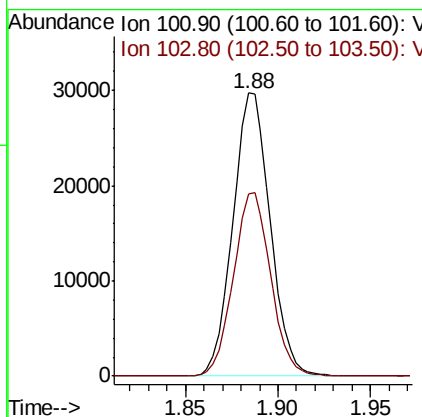
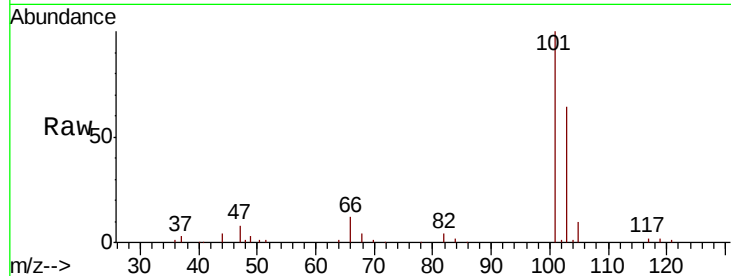
Trichlorofluoromethane
 Concen: 20.02 ug/l
 RT: 1.88 min Scan# 221
 Delta R.T. 0.00 min
 Lab File: VU026678.D
 Acq: 11 Sep 2018 11:20

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tot Ion:101 Resp: 41529
 Ion Ratio Lower Upper
 101 100
 103 64.3 51.7 77.5

Manual Integrations
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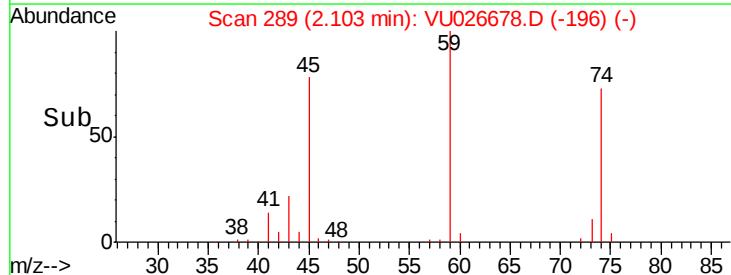
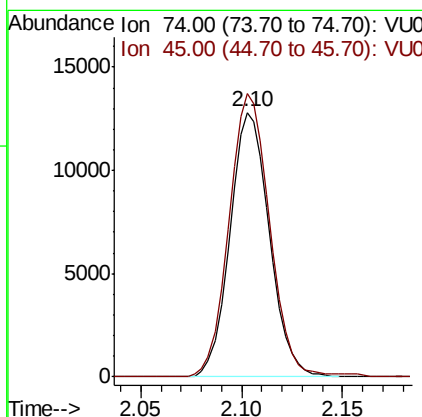
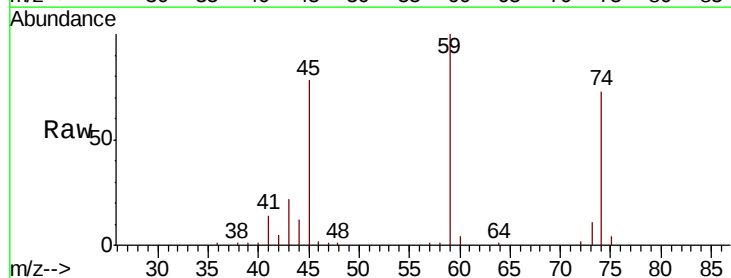
MMDadoda
 9/13/2018 4:48:53 PM

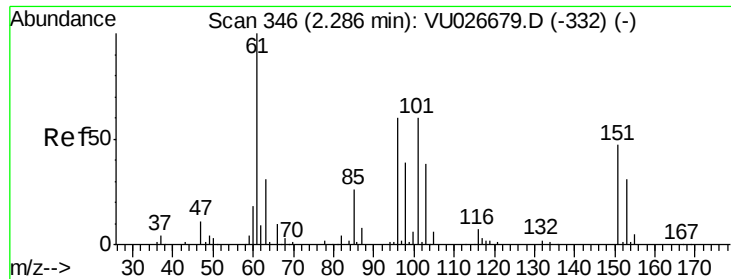


#8

Diethyl Ether
 Concen: 19.23 ug/l
 RT: 2.10 min Scan# 289
 Delta R.T. 0.00 min
 Lab File: VU026678.D
 Acq: 11 Sep 2018 11:20

Tgt Ion: 74 Resp: 17480
 Ion Ratio Lower Upper
 74 100
 45 111.0 53.6 160.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.38 ug/l

RT: 2.29 min Scan# 346

Delta R.T. 0.00 min

Lab File: VU026678.D

Acq: 11 Sep 2018 11:20

Instrument :

MSVOA_U

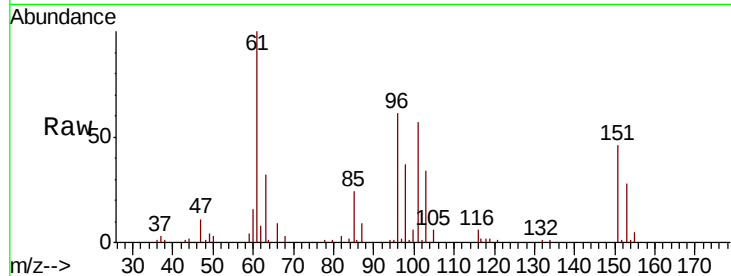
ClientSampleId :

VSTDIC020

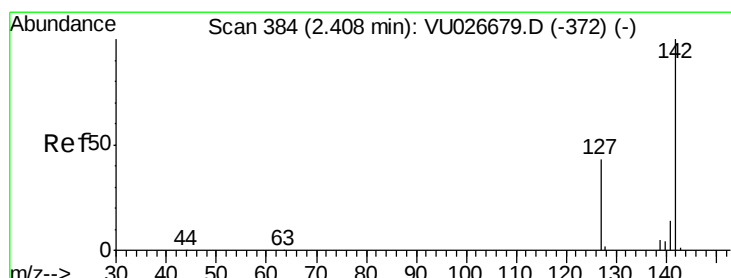
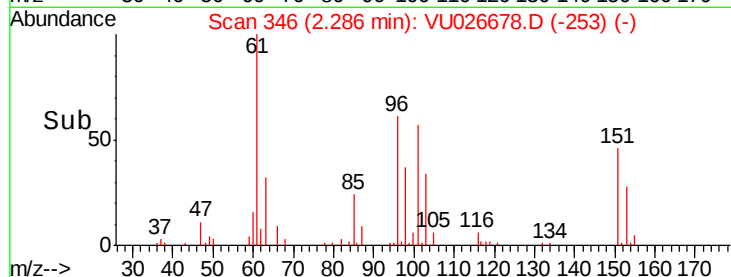
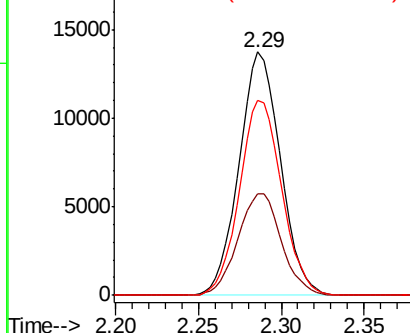
Tot Ion:	101	Resp:	23869
Ion Ratio	Lower	Upper	
101	100		
85	43.8	34.6	52.0
151	81.7	62.7	94.1

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Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): VU0
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 14.79 ug/l

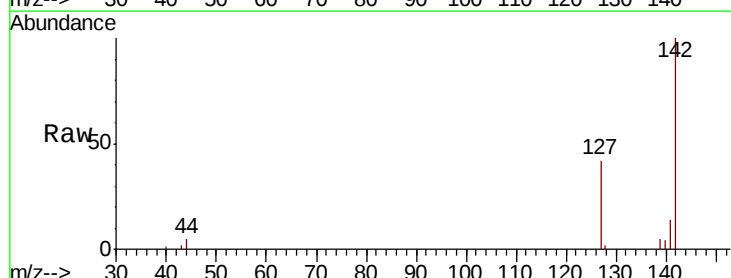
RT: 2.41 min Scan# 385

Delta R.T. 0.00 min

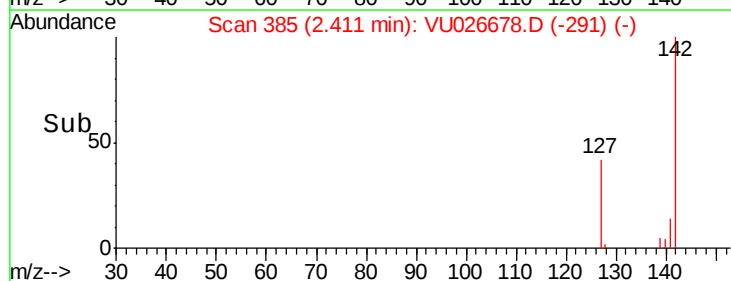
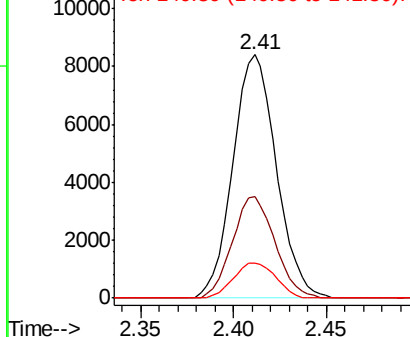
Lab File: VU026678.D

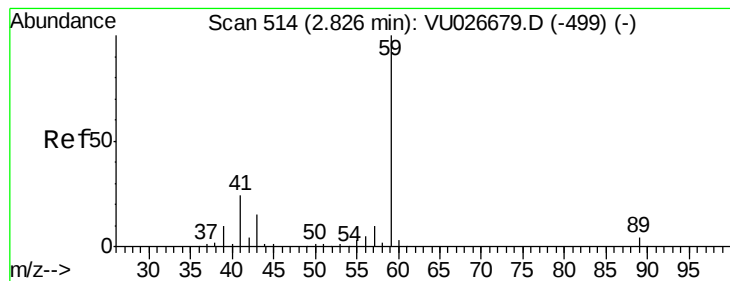
Acq: 11 Sep 2018 11:20

Tgt Ion:	142	Resp:	13723
Ion Ratio	Lower	Upper	
142	100		
127	40.8	34.1	51.1
141	14.0	11.2	16.8



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





#11

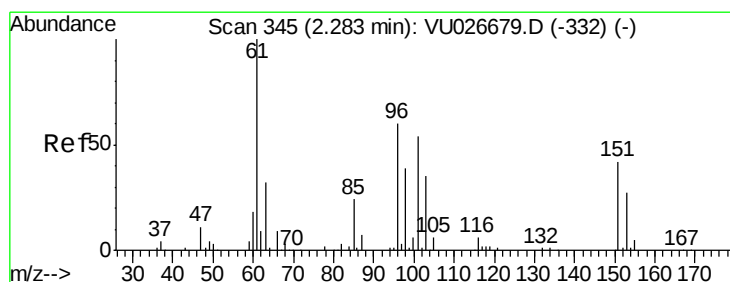
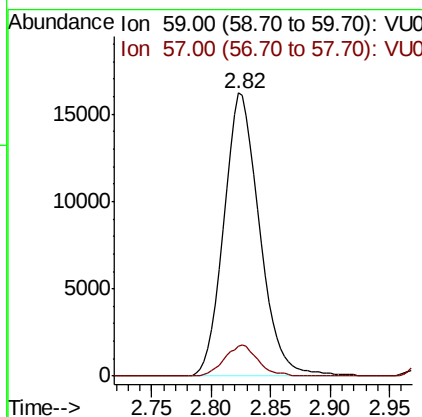
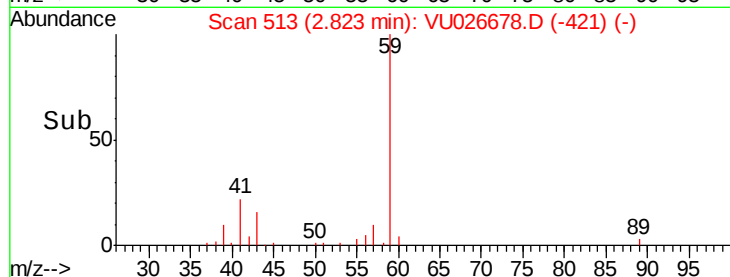
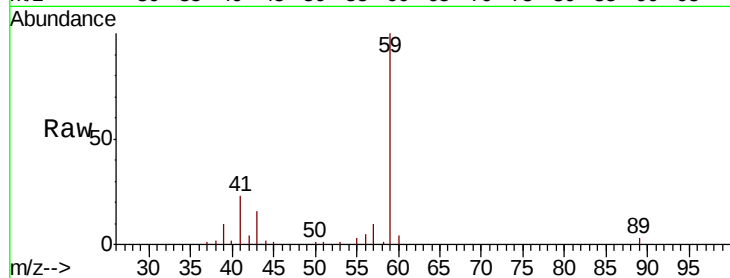
Tert butyl alcohol
Concen: 89.76 ug/l
RT: 2.82 min Scan# 513
Delta R.T. -0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.2	8.0	12.0

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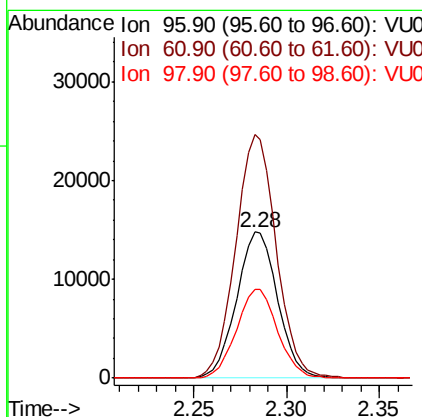
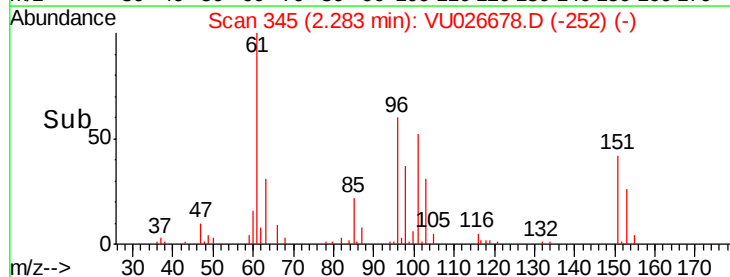
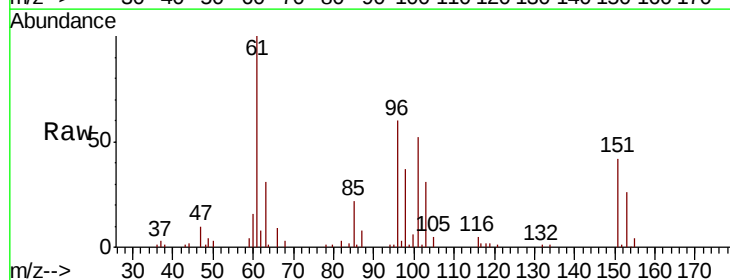
MMDadoda
9/13/2018 4:48:53 PM

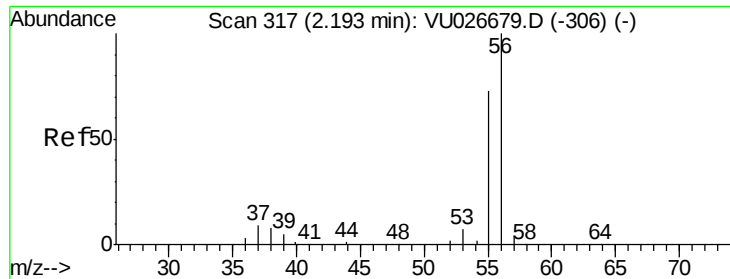


#12

1,1-Dichloroethene
Concen: 19.45 ug/l
RT: 2.28 min Scan# 345
Delta R.T. 0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

Tgt Ion	Ratio	Lower	Upper
96	100		
61	166.5	133.0	199.6
98	60.8	51.3	76.9





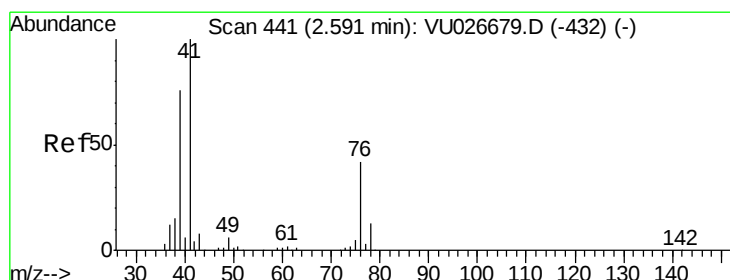
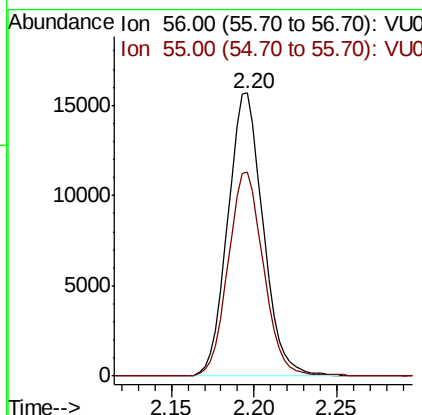
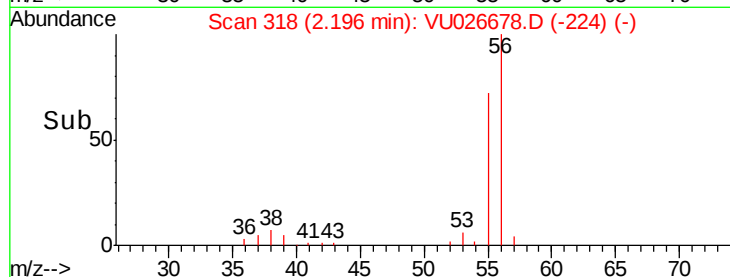
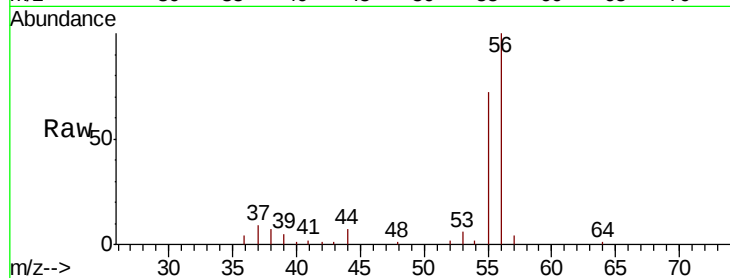
#13
Acrolein
Concen: 91.94 ug/l
RT: 2.20 min Scan# 318
Delta R.T. 0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
56	100		
55	72.3	57.4	86.2

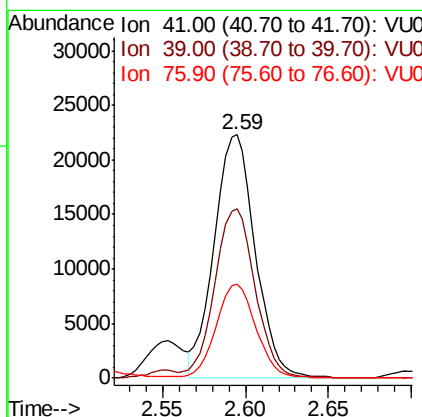
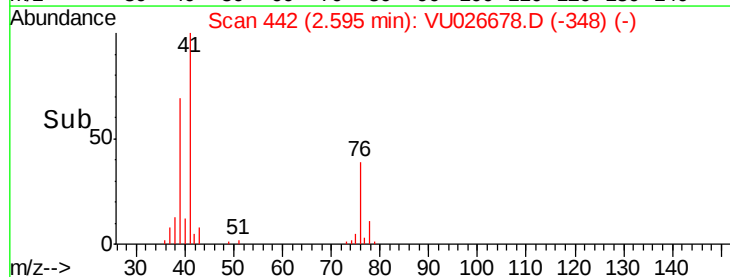
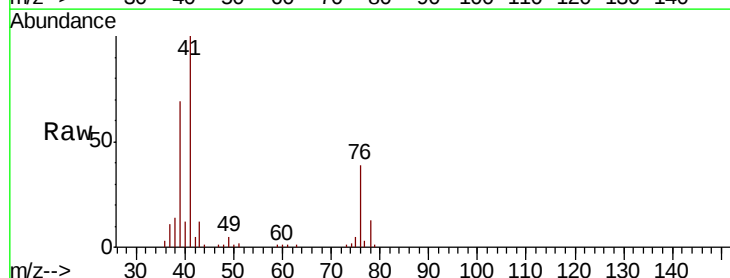
Manual Integrations
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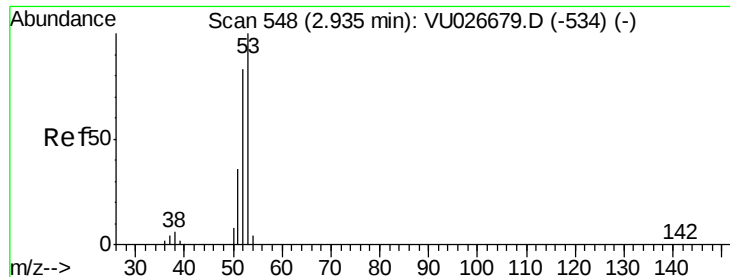
MMDadoda
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#14
Allyl chloride
Concen: 18.41 ug/l
RT: 2.59 min Scan# 442
Delta R.T. 0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

Tgt Ion	Ratio	Lower	Upper
41	100		
39	68.6	56.9	85.3
76	37.2	29.7	44.5





#15

Acrylonitrile

Concen: 98.55 ug/l

RT: 2.94 min Scan# 548

Delta R.T. 0.00 min

Lab File: VU026678.D

Acq: 11 Sep 2018 11:20

Instrument :

MSVOA_U

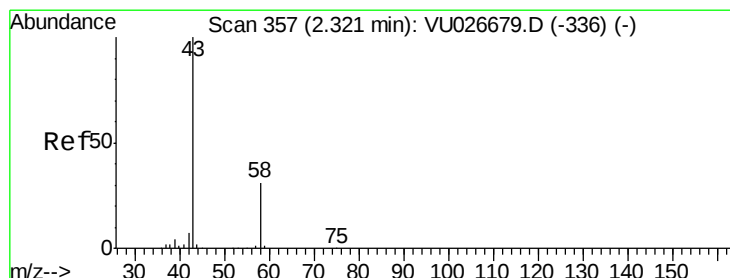
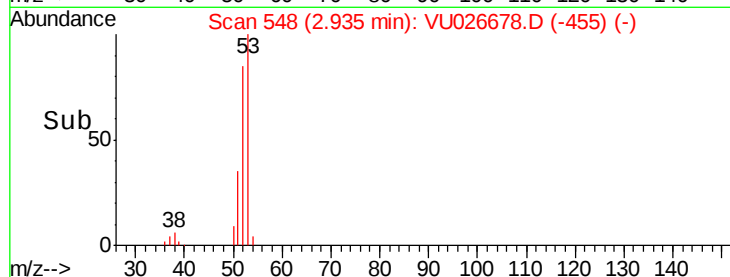
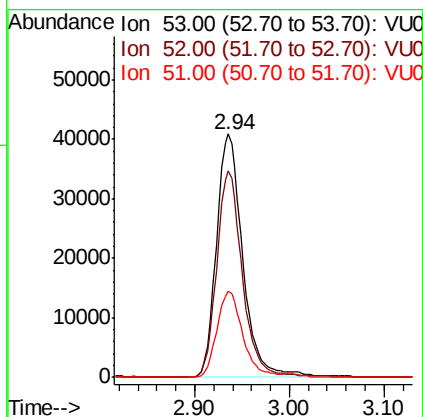
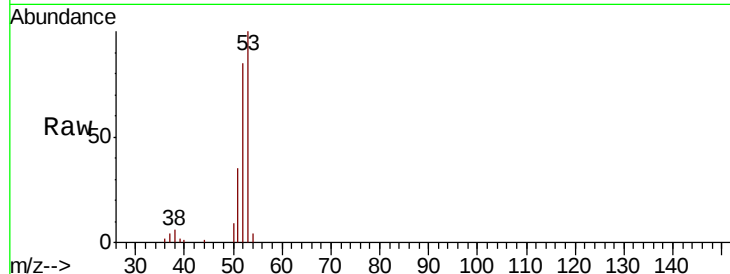
ClientSampled :

VSTDIC020

Tot Ion:	53	Resp:	79257
Ion	Ratio	Lower	Upper
53	100		
52	82.1	65.8	98.8
51	34.6	27.7	41.5

Manual Integrations
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#16

Acetone

Concen: 95.06 ug/l

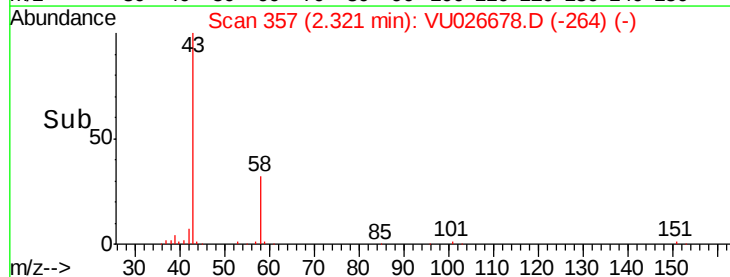
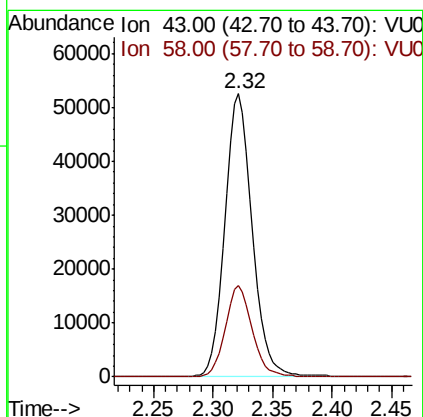
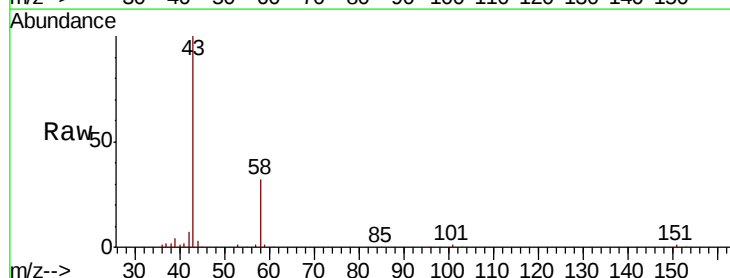
RT: 2.32 min Scan# 357

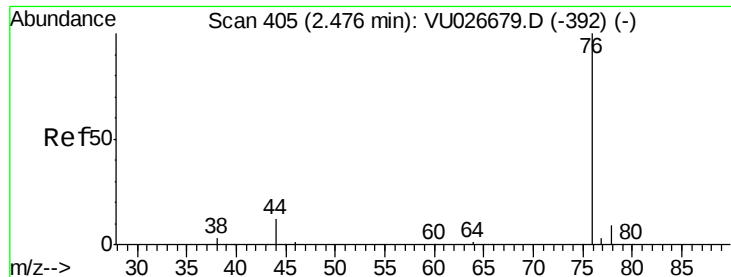
Delta R.T. 0.00 min

Lab File: VU026678.D

Acq: 11 Sep 2018 11:20

Tgt Ion:	43	Resp:	82802
Ion	Ratio	Lower	Upper
43	100		
58	32.2	25.1	37.7





#17

Carbon Disulfide

Concen: 18.71 ug/l

RT: 2.48 min Scan# 406

Delta R.T. 0.00 min

Lab File: VU026678.D

Acq: 11 Sep 2018 11:20

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 69306

Ion Ratio Lower Upper

76 100

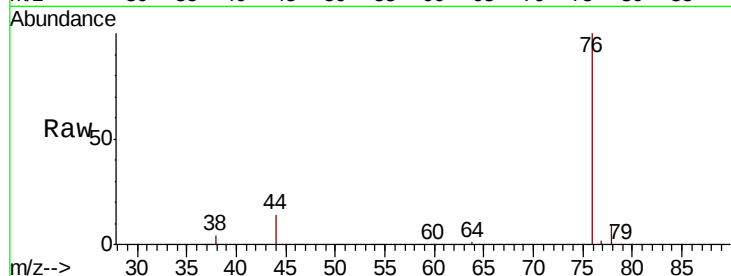
78 9.2 7.0 10.6

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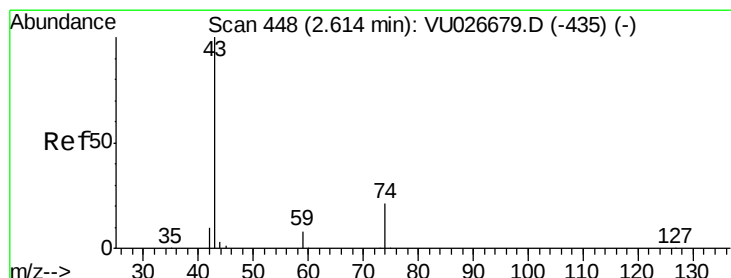
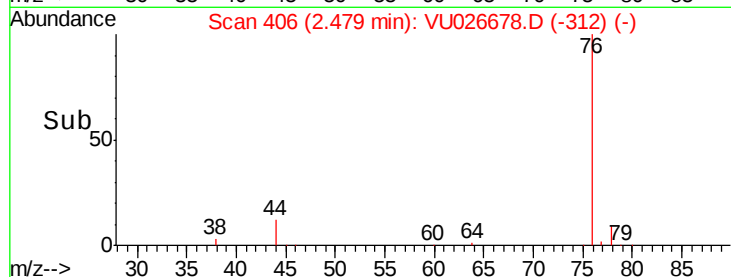


Abundance Ion 75.90 (75.60 to 76.60): VU026679.D (-392) (-)

Ion 77.90 (77.60 to 78.60): VU026679.D (-392) (-)

2.48

Time-->



#18

Methyl Acetate

Concen: 19.56 ug/l

RT: 2.62 min Scan# 449

Delta R.T. 0.00 min

Lab File: VU026678.D

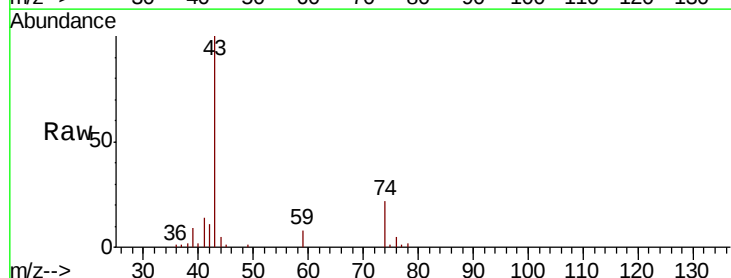
Acq: 11 Sep 2018 11:20

Tgt Ion: 43 Resp: 36759

Ion Ratio Lower Upper

43 100

74 22.5 17.7 26.5

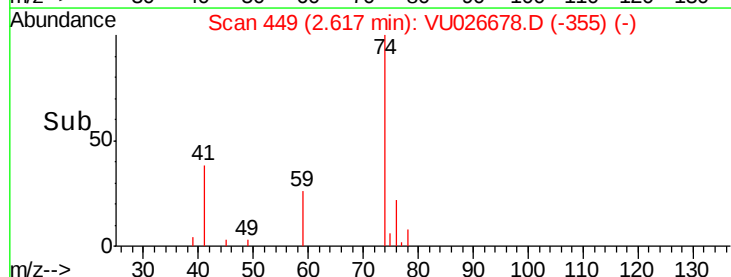


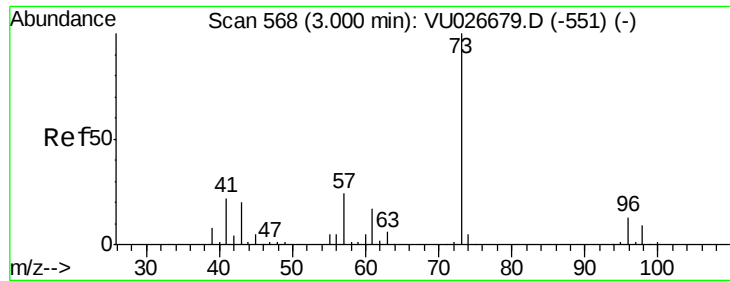
Abundance Ion 43.00 (42.70 to 43.70): VU026679.D (-435) (-)

Ion 74.00 (73.70 to 74.70): VU026679.D (-435) (-)

2.62

Time-->





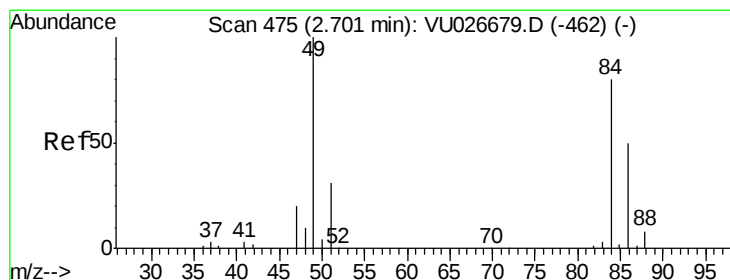
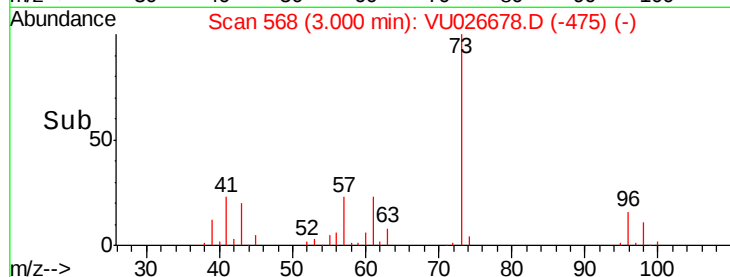
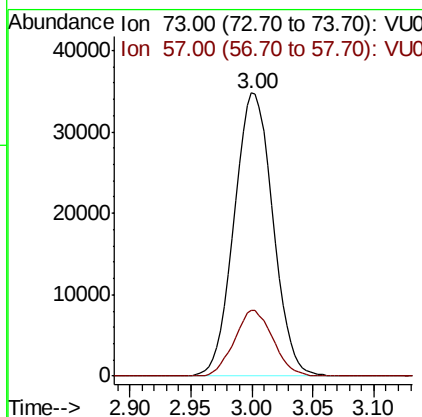
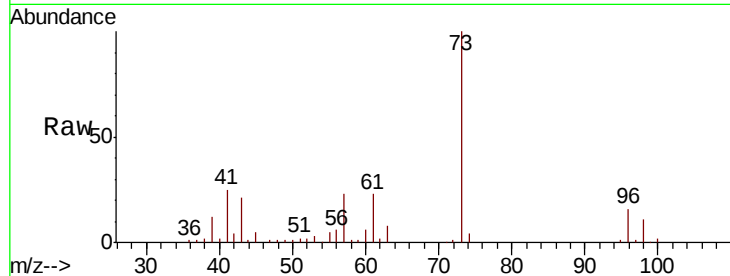
#19
Methyl tert-butyl Ether
Concen: 19.09 ug/l
RT: 3.00 min Scan# 568
Delta R.T. 0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
73	100		
57	23.4	18.9	28.3

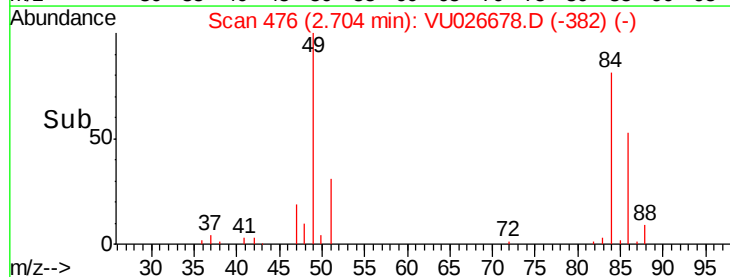
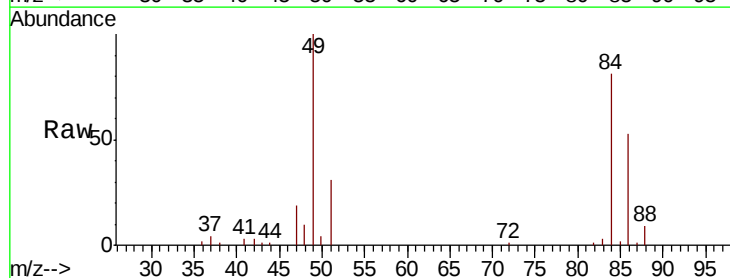
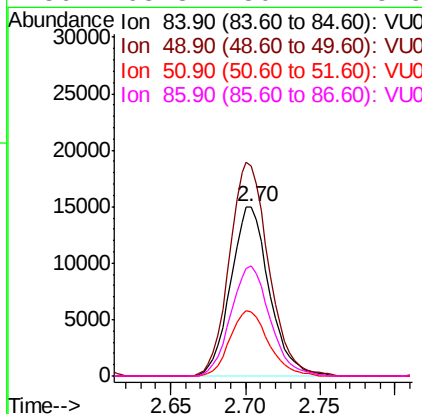
Manual Integrations
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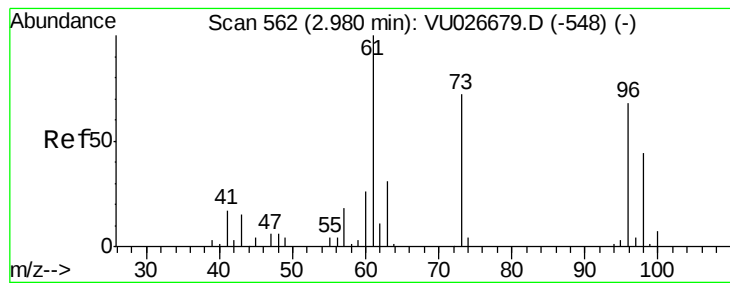
MMDadoda
9/13/2018 4:48:53 PM



#20
Methylene Chloride
Concen: 19.07 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

Tgt Ion	Ratio	Lower	Upper
84	100		
49	123.9	100.6	151.0
51	37.8	30.9	46.3
86	65.3	50.4	75.6





#21

trans-1,2-Dichloroethene

Concen: 19.24 ug/l

RT: 2.98 min Scan# 563

Delta R.T. 0.00 min

Lab File: VU026678.D

Acq: 11 Sep 2018 11:20

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tot Ion: 96 Resp: 23603

Ion Ratio Lower Upper

96 100

61 146.1 117.7 176.5

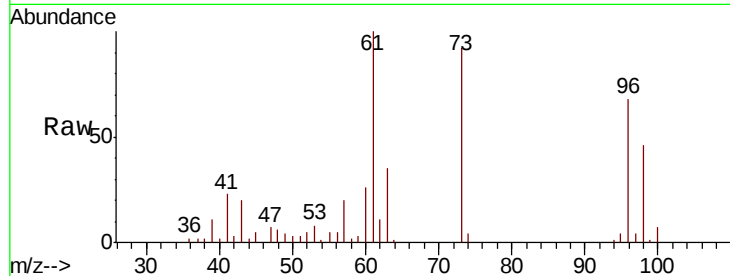
98 66.6 52.0 78.0

Manual Integrations

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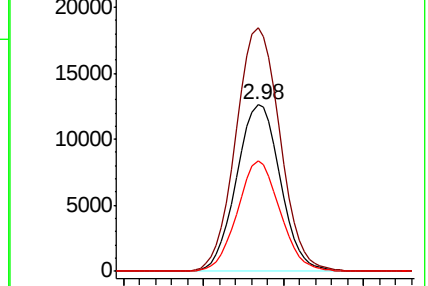
9/13/2018 4:48:53 PM



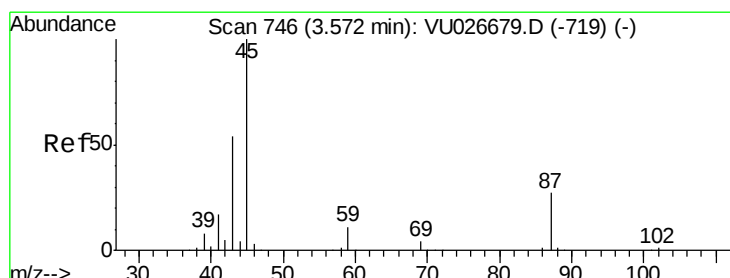
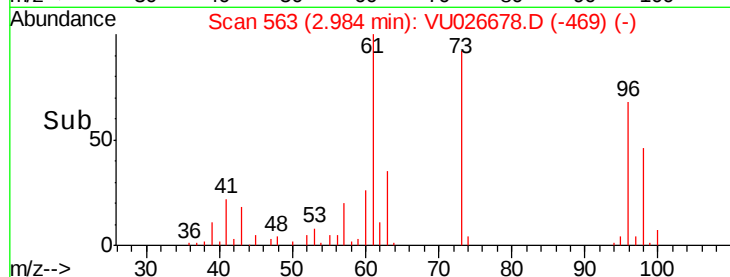
Abundance Ion 95.90 (95.60 to 96.60): VU026678.D (-469) (-)

Ion 60.90 (60.60 to 61.60): VU026678.D (-469) (-)

Ion 97.90 (97.60 to 98.60): VU026678.D (-469) (-)



Time-->



#22

Diisopropyl ether

Concen: 20.10 ug/l

RT: 3.57 min Scan# 746

Delta R.T. 0.00 min

Lab File: VU026678.D

Acq: 11 Sep 2018 11:20

Tgt Ion: 45 Resp: 87957

Ion Ratio Lower Upper

45 100

43 60.4 44.6 67.0

87 25.2 21.4 32.0

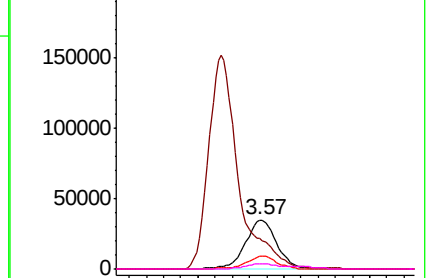
59 10.7 9.0 13.4

Abundance Ion 45.00 (44.70 to 45.70): VU026678.D (-653) (-)

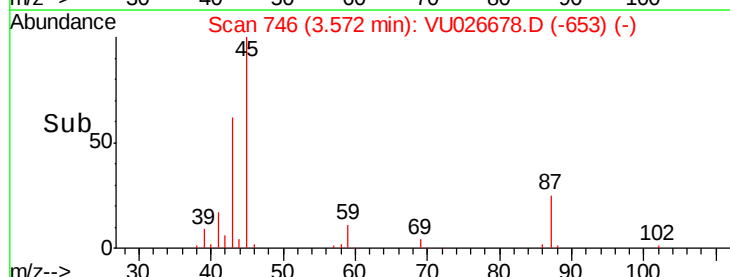
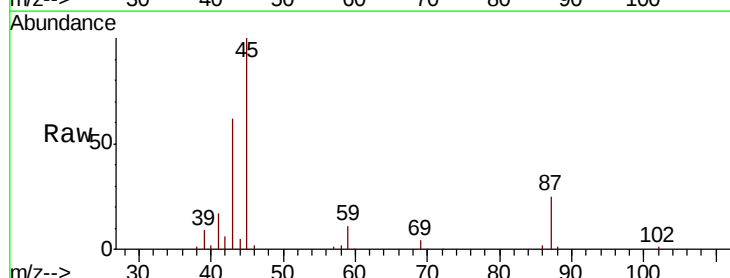
Ion 43.00 (42.70 to 43.70): VU026678.D (-653) (-)

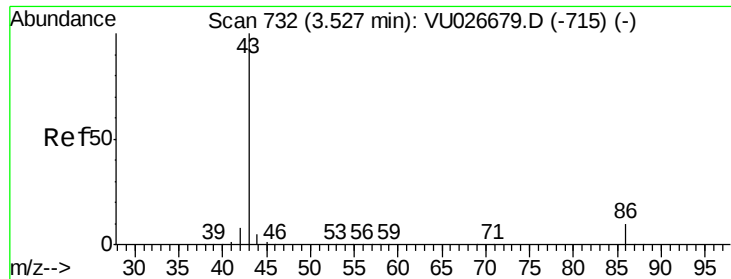
Ion 87.00 (86.70 to 87.70): VU026678.D (-653) (-)

Ion 59.00 (58.70 to 59.70): VU026678.D (-653) (-)



Time-->





#23

Vinyl Acetate

Concen: 99.13 ug/l

RT: 3.53 min Scan# 732

Delta R.T. 0.00 min

Lab File: VU026678.D

Acq: 11 Sep 2018 11:20

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 368577

Ion Ratio Lower Upper

43 100

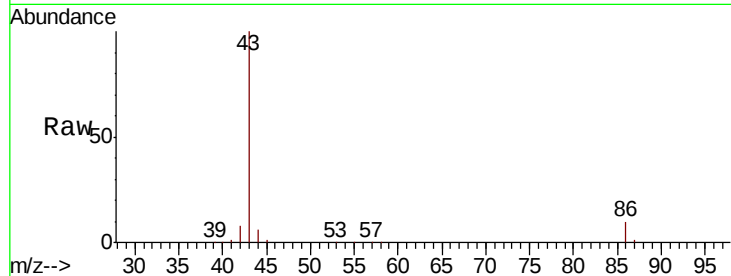
86 10.2 7.8 11.8

Manual Integrations

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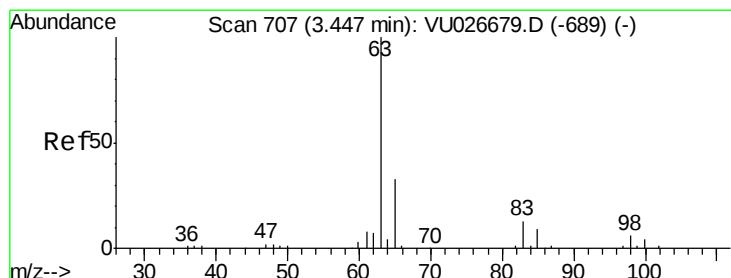
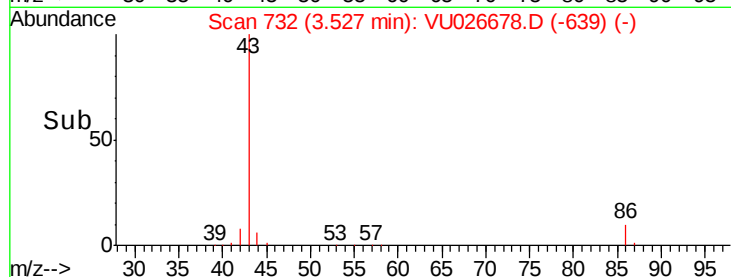
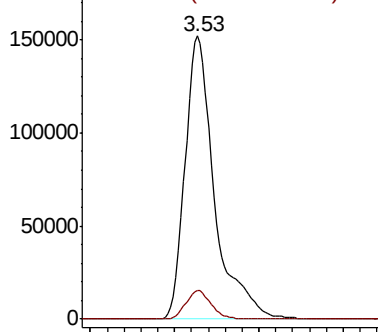
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 86.00 (85.70 to 86.70): VU0



#24

1,1-Dichloroethane

Concen: 19.56 ug/l

RT: 3.45 min Scan# 707

Delta R.T. 0.00 min

Lab File: VU026678.D

Acq: 11 Sep 2018 11:20

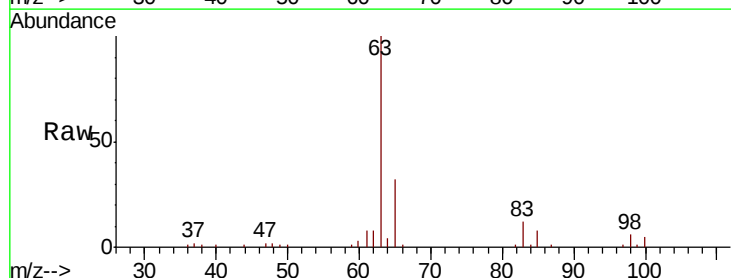
Tgt Ion: 63 Resp: 48301

Ion Ratio Lower Upper

63 100

98 6.1 3.1 9.4

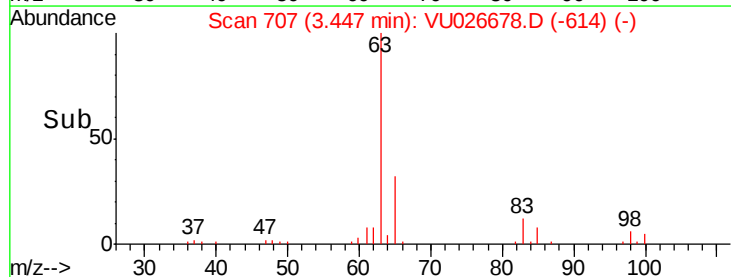
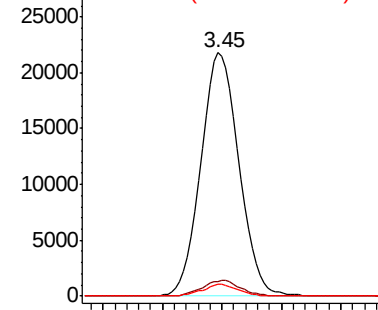
100 4.7 2.0 6.0

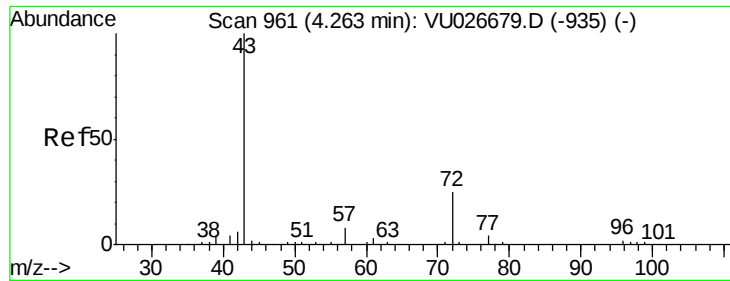


Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

Ion 99.90 (99.60 to 100.60): VU0





#25

2-Butanone

Concen: 96.94 ug/l

RT: 4.26 min Scan# 961

Delta R.T. 0.00 min

Lab File: VU026678.D

Acq: 11 Sep 2018 11:20

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 113750

Ion Ratio Lower Upper

43 100

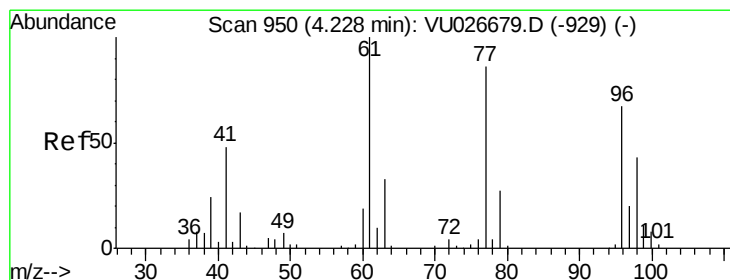
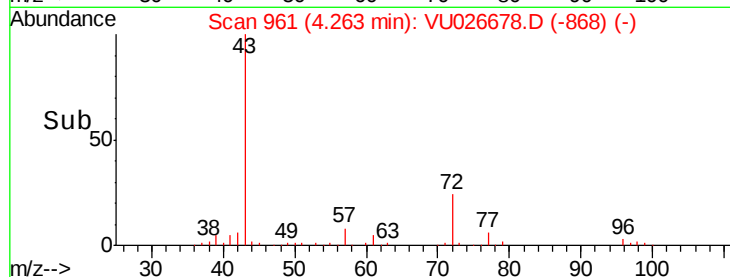
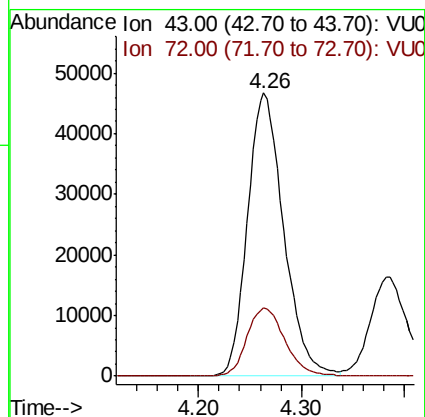
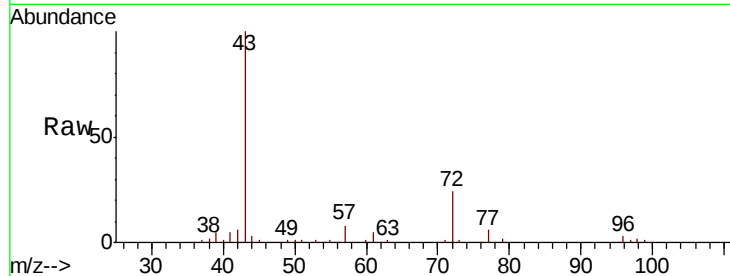
72 24.1 20.3 30.5

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 19.88 ug/l

RT: 4.23 min Scan# 950

Delta R.T. 0.00 min

Lab File: VU026678.D

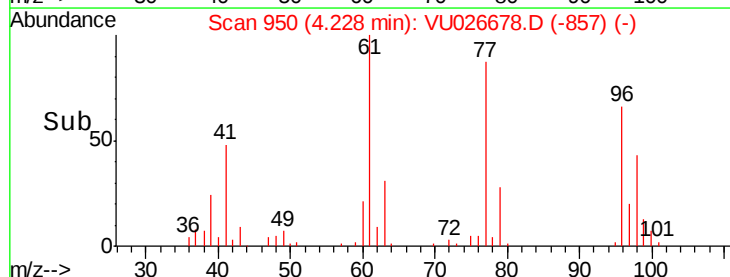
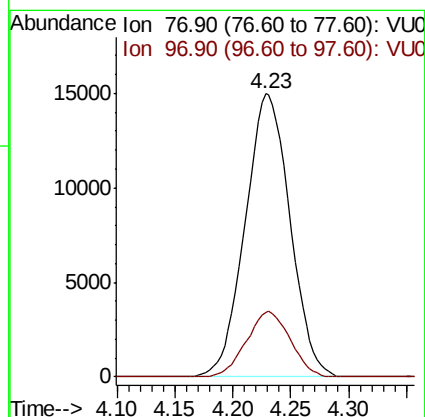
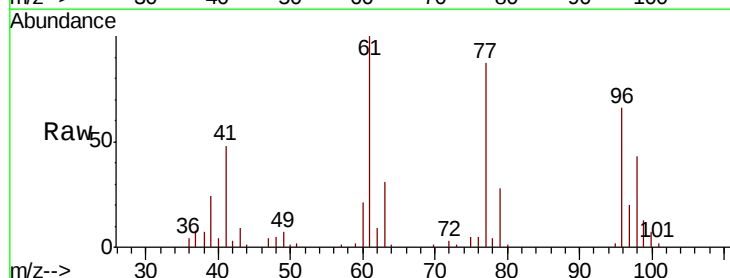
Acq: 11 Sep 2018 11:20

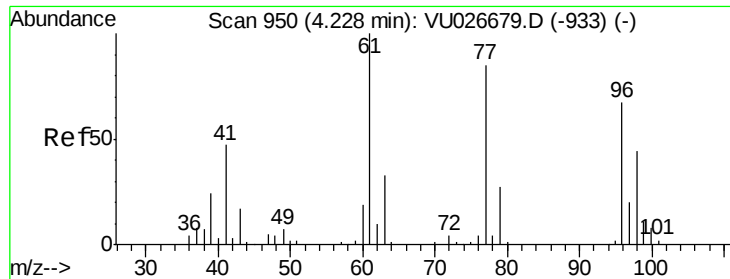
Tgt Ion: 77 Resp: 40347

Ion Ratio Lower Upper

77 100

97 22.5 11.6 34.8





#27

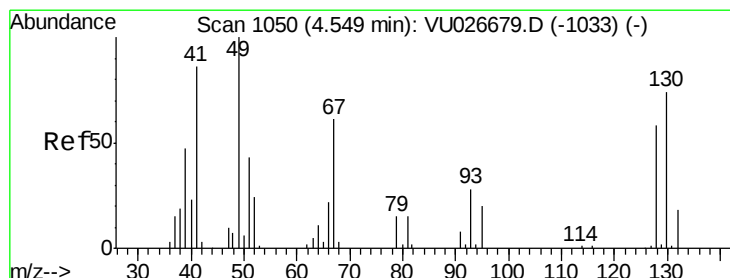
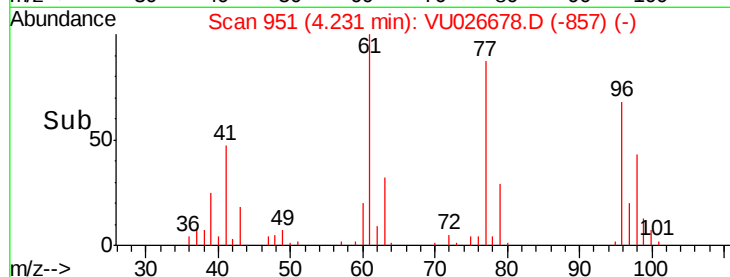
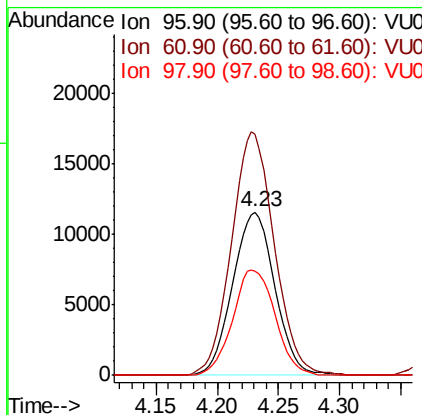
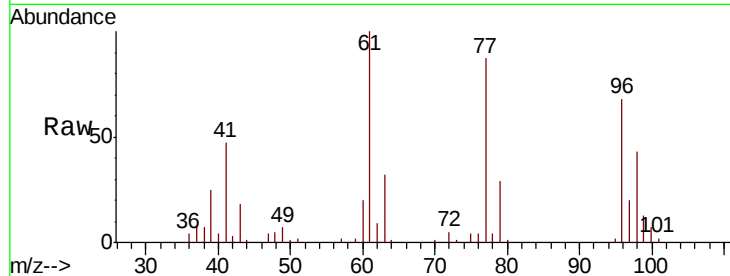
cis-1,2-Dichloroethene
Concen: 19.59 ug/l
RT: 4.23 min Scan# 951
Delta R.T. 0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	151.1	0.0	301.8	
98	65.1	0.0	127.2	

Manual Integrations
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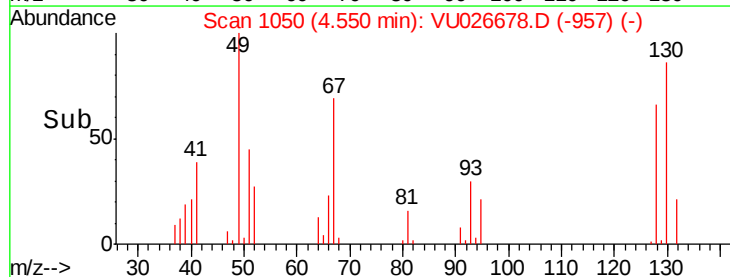
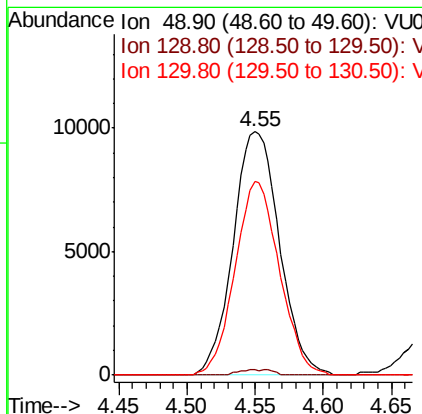
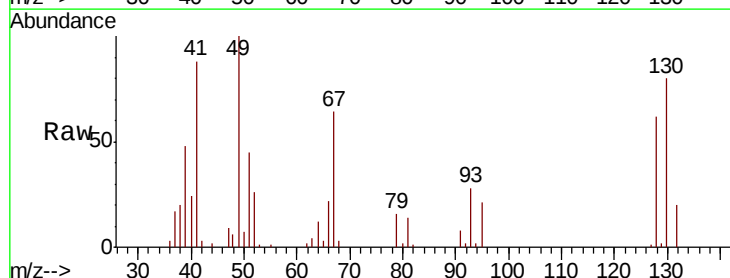
MMDadoda
9/13/2018 4:48:53 PM

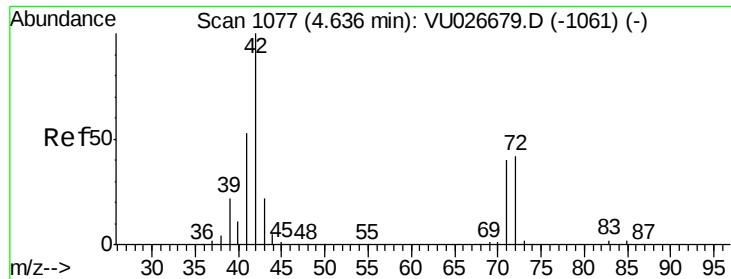


#28

Bromochloromethane
Concen: 19.68 ug/l
RT: 4.55 min Scan# 1050
Delta R.T. 0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	1.6	0.0	3.8	
130	76.0	59.8	89.6	





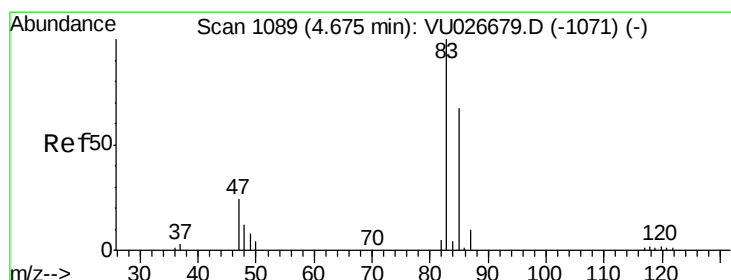
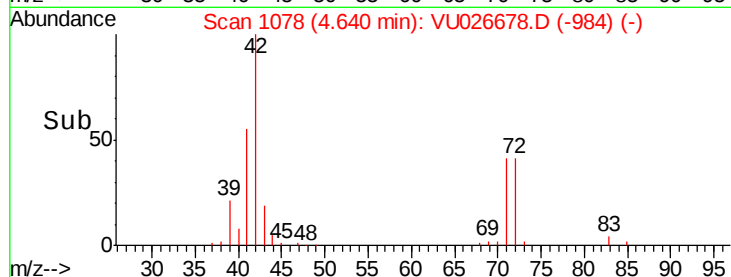
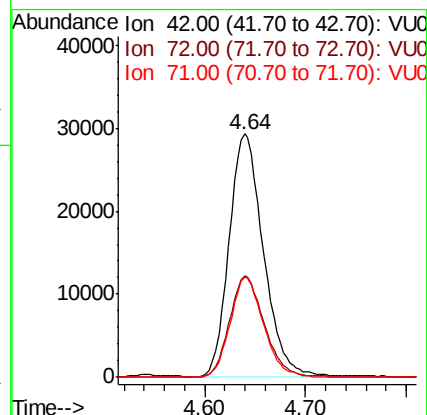
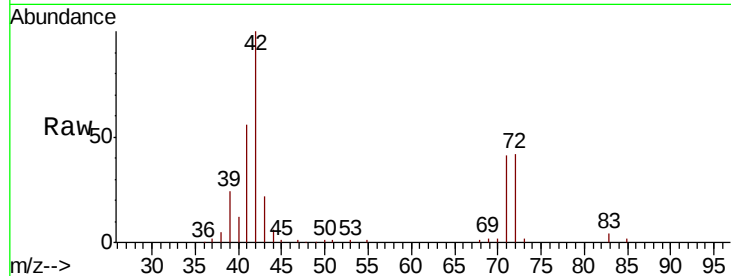
#29
Tetrahydrofuran
Concen: 98.75 ug/l
RT: 4.64 min Scan# 1078
Delta R.T. 0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	42.1	34.4	51.6
71	39.8	32.4	48.6

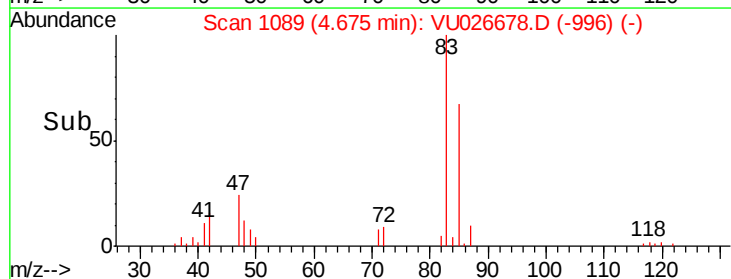
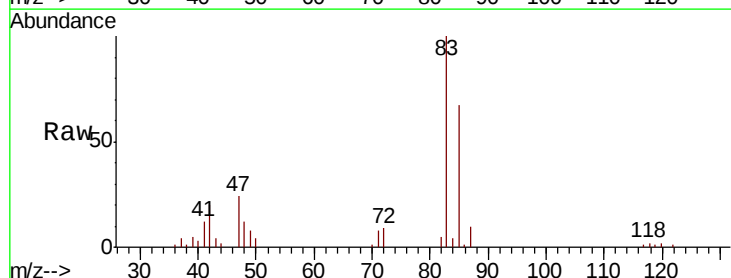
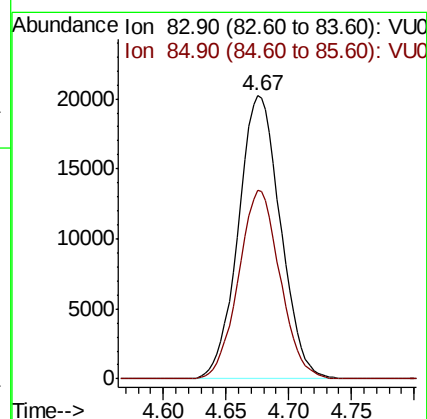
Manual Integrations
APPROVED

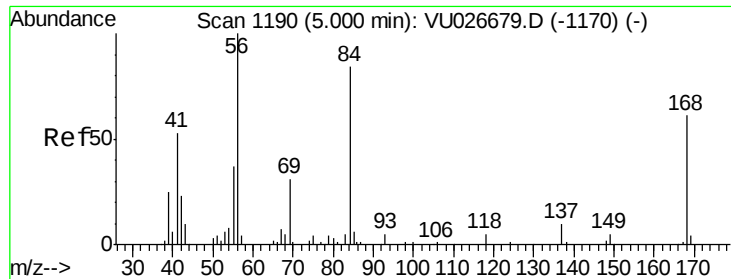
MMDadoda
9/13/2018 4:48:53 PM



#30
Chloroform
Concen: 19.47 ug/l
RT: 4.67 min Scan# 1089
Delta R.T. 0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.8	53.3	79.9





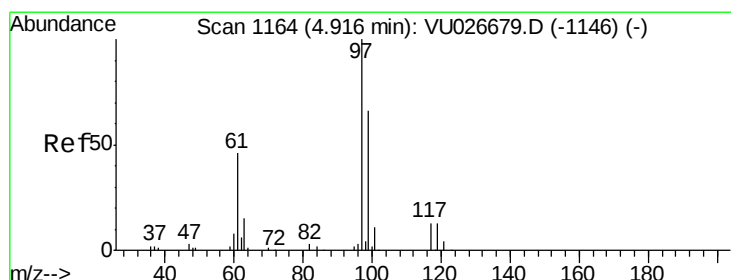
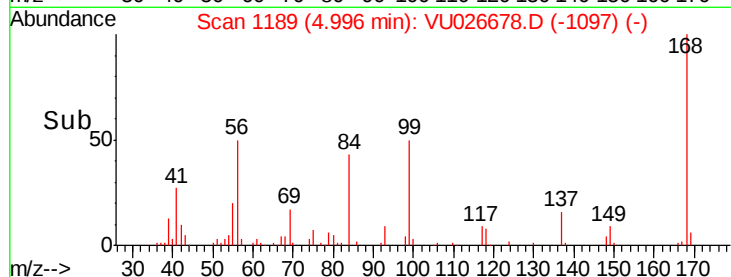
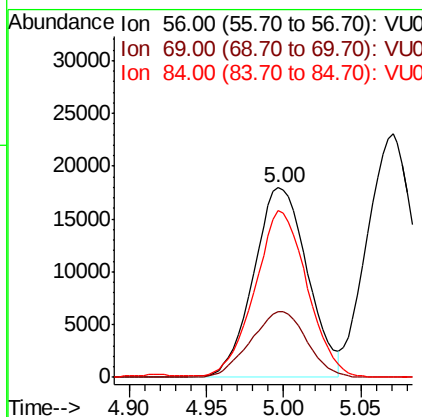
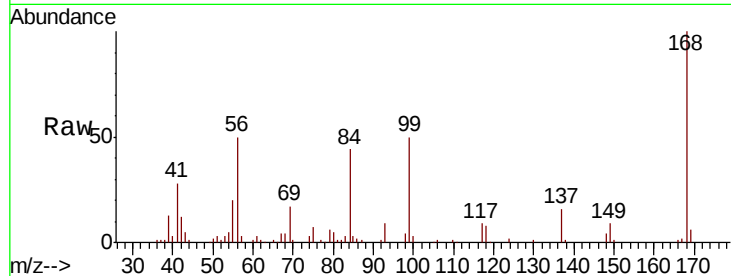
#31
Cyclohexane
Concen: 17.07 ug/l
RT: 5.00 min Scan# 1189
Delta R.T. -0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
56	100		
69	34.4	24.9	37.3
84	87.0	66.6	100.0

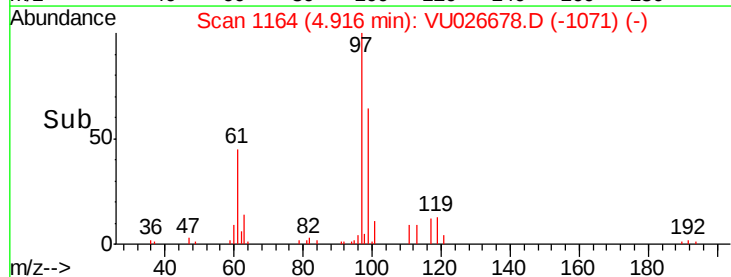
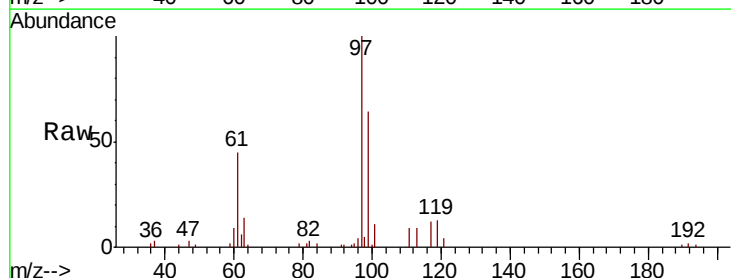
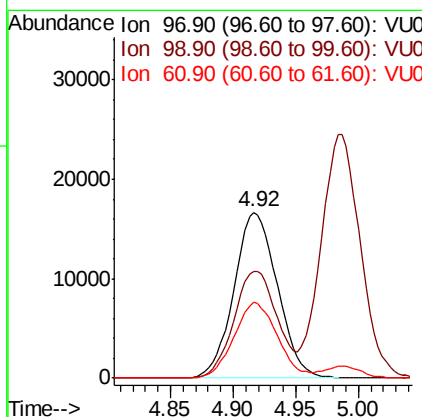
Manual Integrations
APPROVED

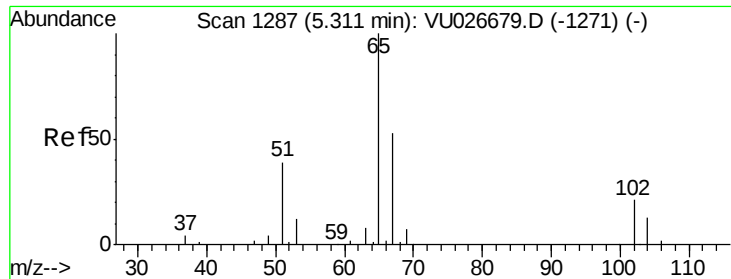
MMDadoda
9/13/2018 4:48:53 PM



#32
1,1,1-Trichloroethane
Concen: 19.89 ug/l
RT: 4.92 min Scan# 1164
Delta R.T. 0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.5	52.2	78.2
61	45.6	36.8	55.2





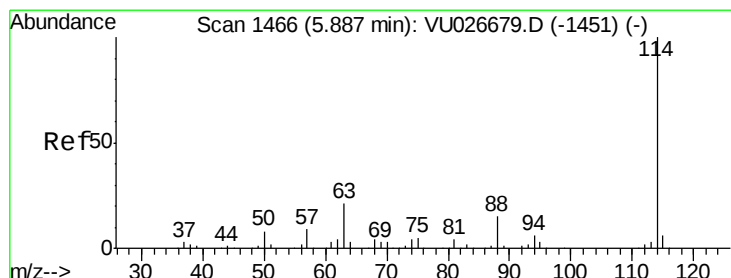
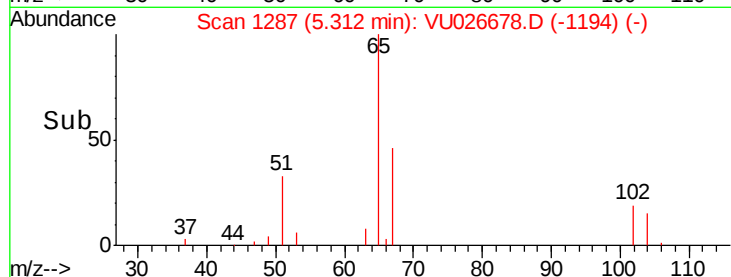
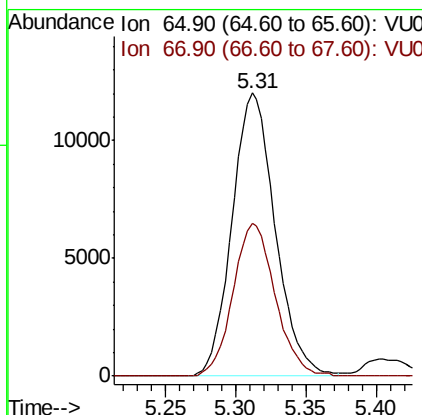
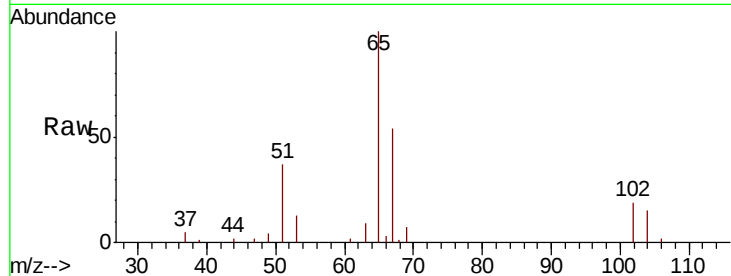
#33
 1,2-Dichloroethane-d4
 Concen: 16.71 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. 0.00 min
 Lab File: VU026678.D
 Acq: 11 Sep 2018 11:20

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	106.4

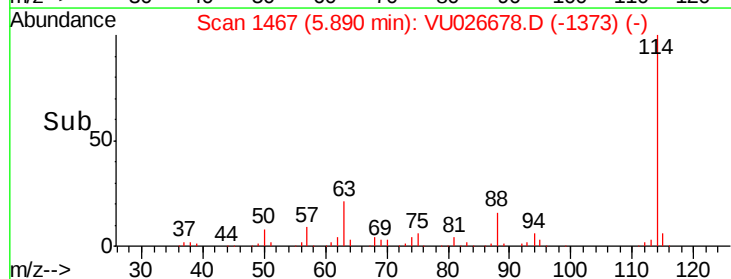
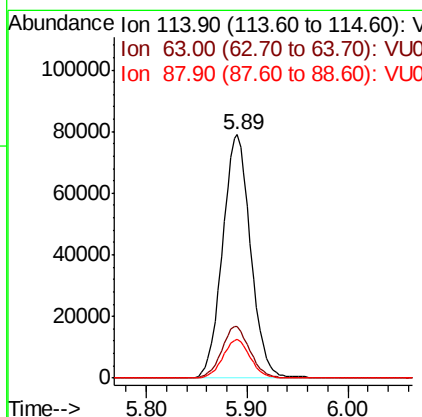
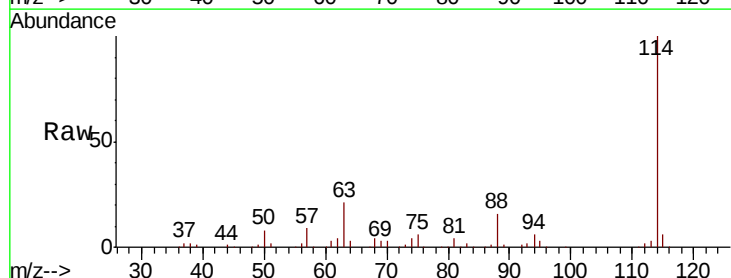
Manual Integrations
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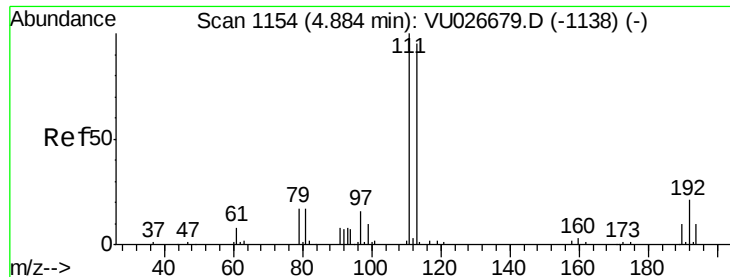
MMDadoda
 9/13/2018 4:48:53 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.89 min Scan# 1467
 Delta R.T. 0.00 min
 Lab File: VU026678.D
 Acq: 11 Sep 2018 11:20

Tgt Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	41.4
88	15.9	0.0	30.8





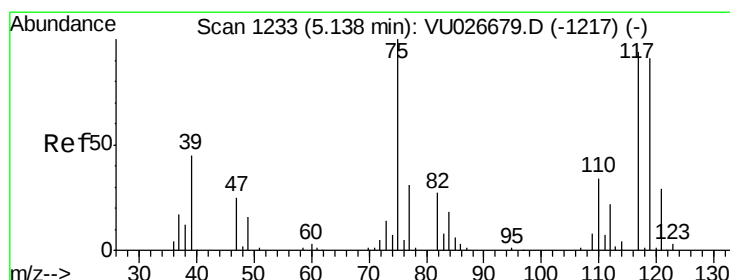
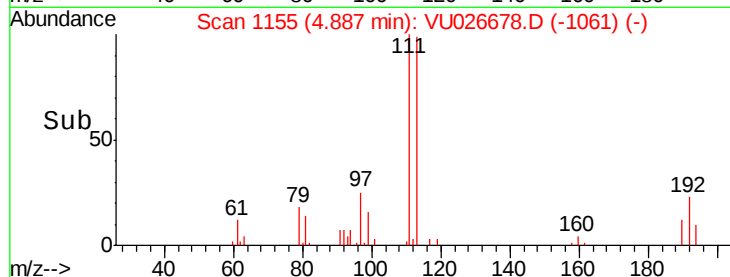
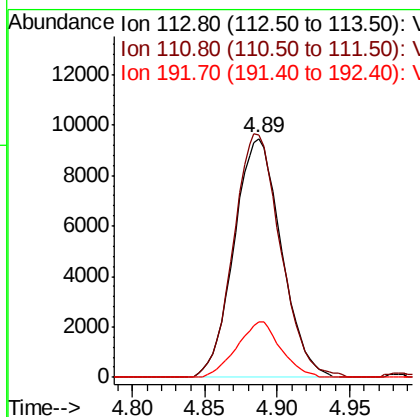
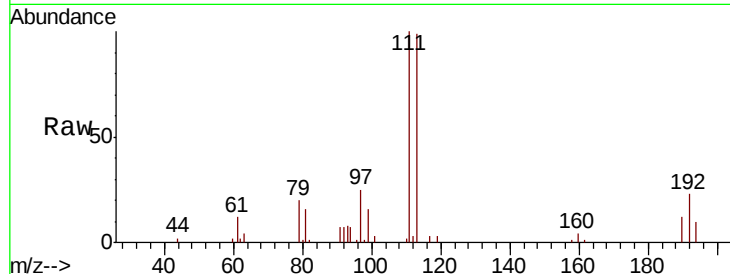
#35
 Dibromofluoromethane
 Concen: 17.12 ug/l
 RT: 4.89 min Scan# 1155
 Delta R.T. 0.00 min
 Lab File: VU026678.D
 Acq: 11 Sep 2018 11:20

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.6	83.1	124.7
192	21.6	17.4	26.2

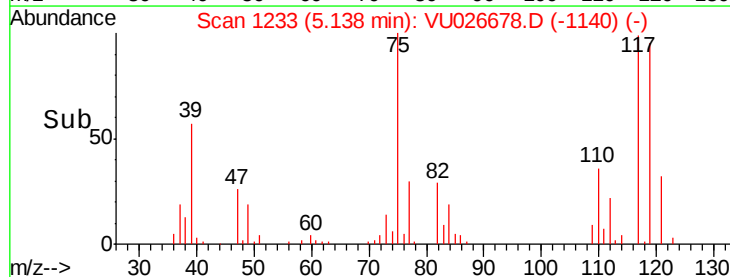
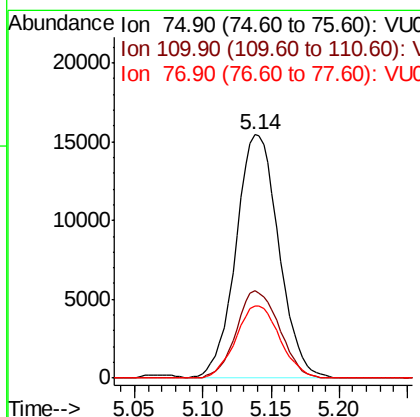
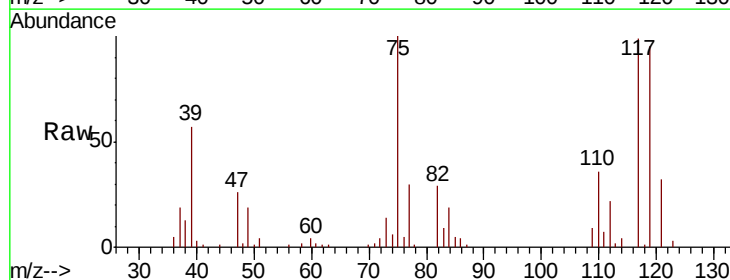
Manual Integrations
 APPROVED

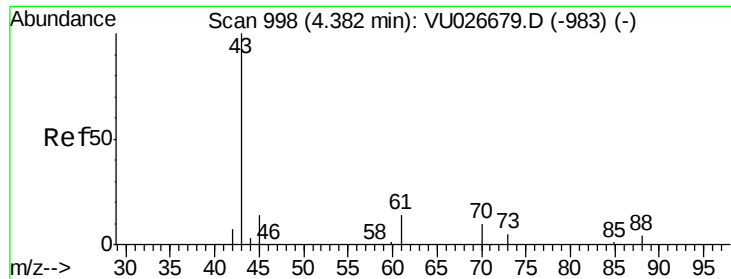
MMDadoda
 9/13/2018 4:48:53 PM



#36
 1,1-Dichloropropene
 Concen: 19.57 ug/l
 RT: 5.14 min Scan# 1233
 Delta R.T. 0.00 min
 Lab File: VU026678.D
 Acq: 11 Sep 2018 11:20

Tgt Ion	Ratio	Lower	Upper
75	100		
110	36.0	17.3	51.9
77	30.5	24.9	37.3





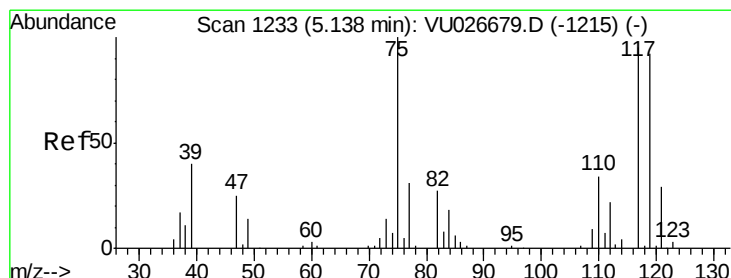
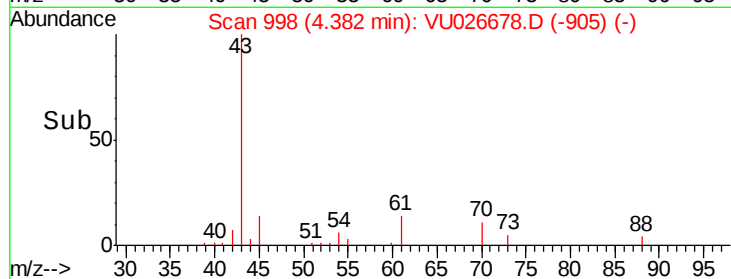
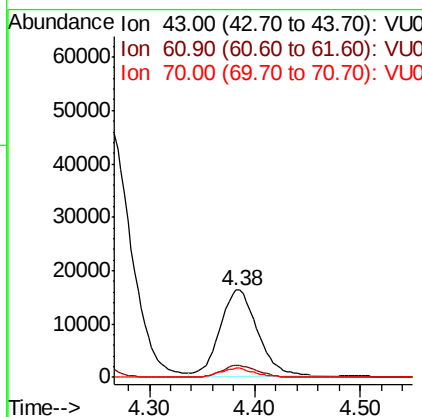
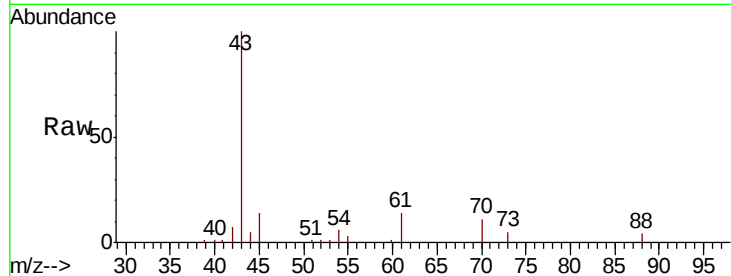
#37
Ethyl Acetate
Concen: 19.53 ug/l
RT: 4.38 min Scan# 998
Delta R.T. 0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.3	11.5	17.3
70	9.6	7.8	11.8

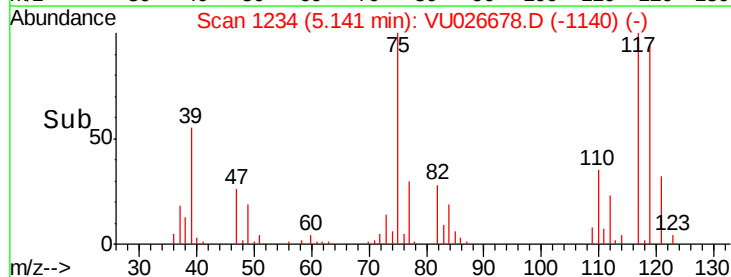
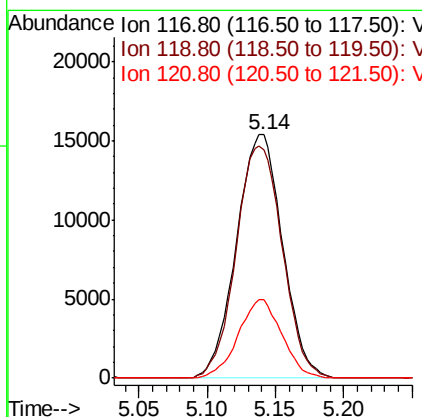
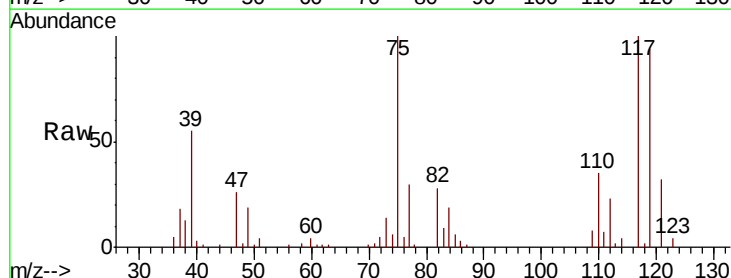
Manual Integrations
APPROVED

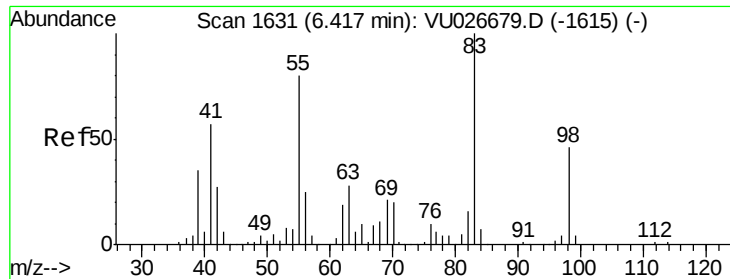
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#38
Carbon Tetrachloride
Concen: 19.88 ug/l
RT: 5.14 min Scan# 1234
Delta R.T. 0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.6	77.8	116.8
121	32.1	25.0	37.4





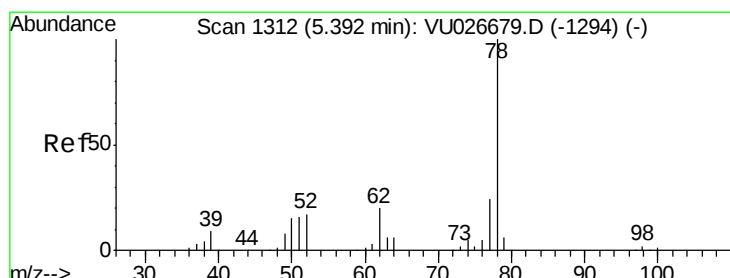
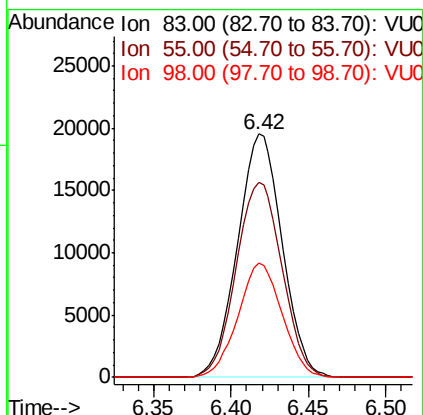
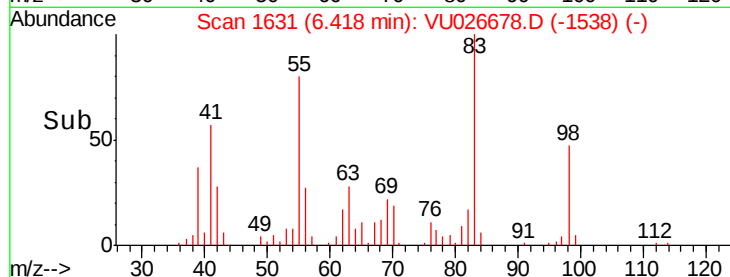
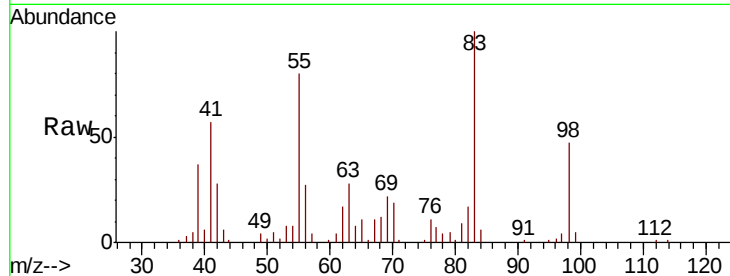
#39
Methvlcvclohexane
Concen: 19.15 ug/l
RT: 6.42 min Scan# 1631
Delta R.T. 0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	83	Resp	39207
Ion	Ratio	Lower	Upper
83	100		
55	80.0	63.8	95.6
98	47.0	37.2	55.8

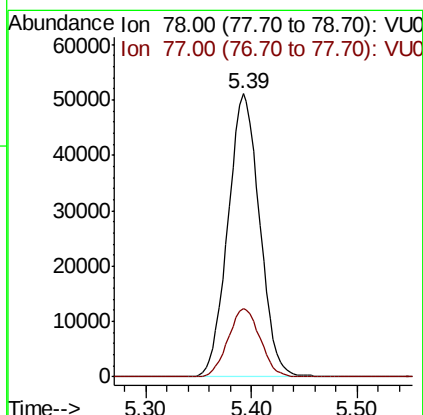
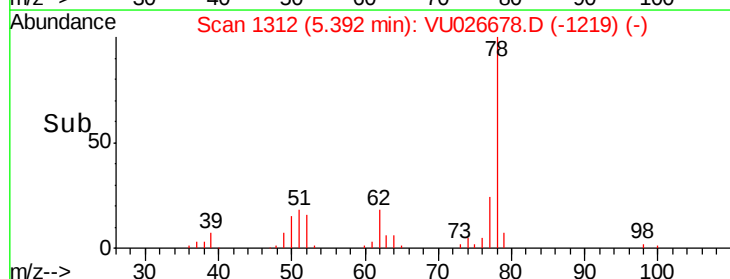
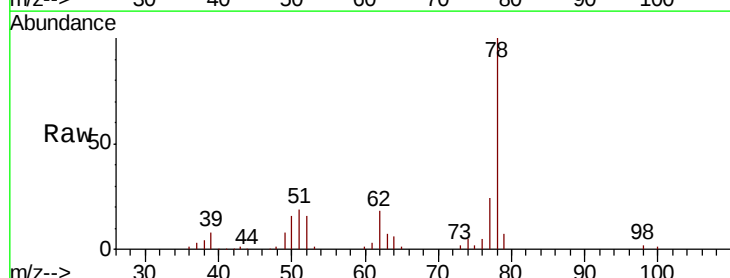
Manual Integrations
APPROVED

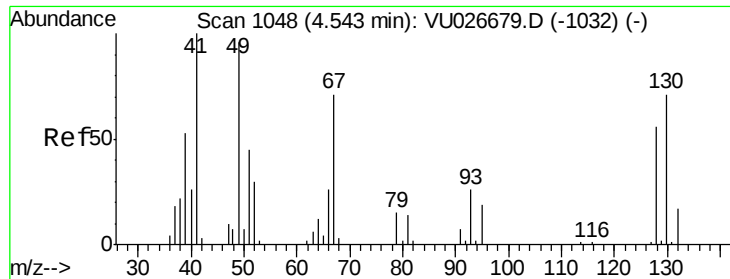
MMDadoda
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#40
Benzene
Concen: 19.92 ug/l
RT: 5.39 min Scan# 1312
Delta R.T. 0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

Tgt Ion	78	Resp	106643
Ion	Ratio	Lower	Upper
78	100		
77	24.3	19.5	29.3





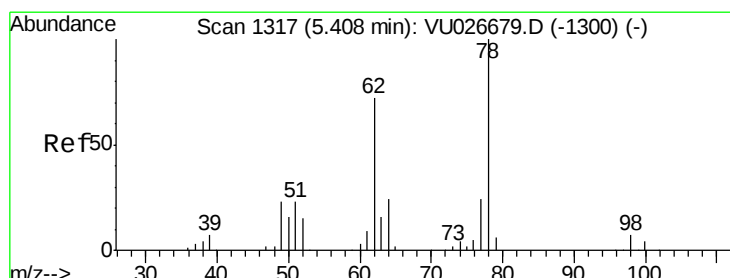
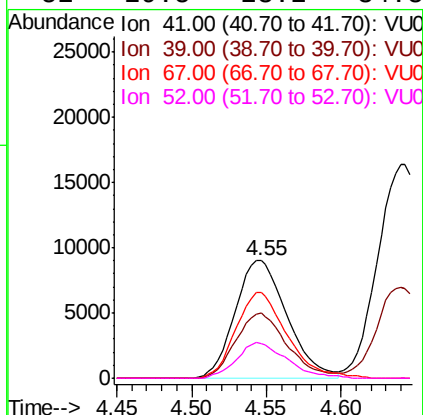
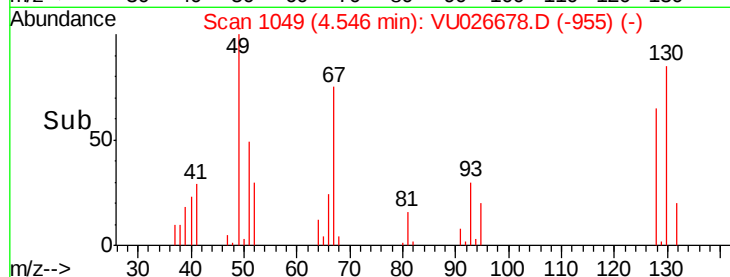
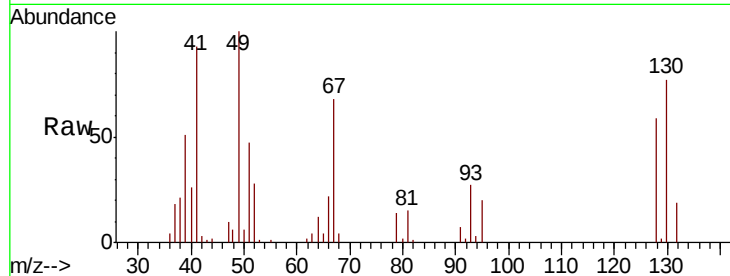
#41
Methacrylonitrile
Concen: 20.33 ug/l
RT: 4.55 min Scan# 1049
Delta R.T. 0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

Instrument :
MSVOA_U
ClientSampled :
VSTDIC020

Tot Ion	Ion	Ratio	Lower	Upper
21874	41	100		
	39	54.5	42.9	64.3
	67	71.6	56.6	84.8
	52	29.5	23.2	34.8

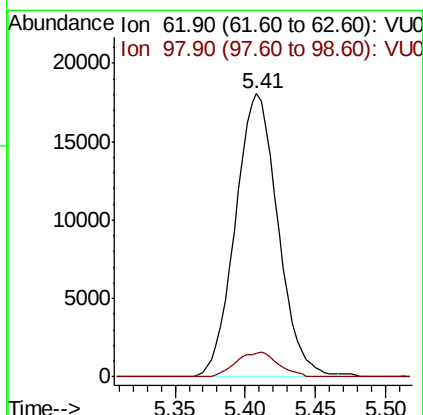
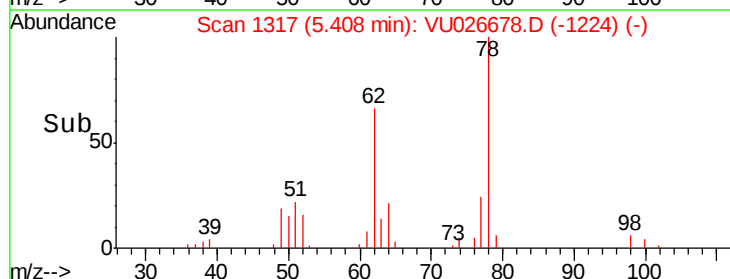
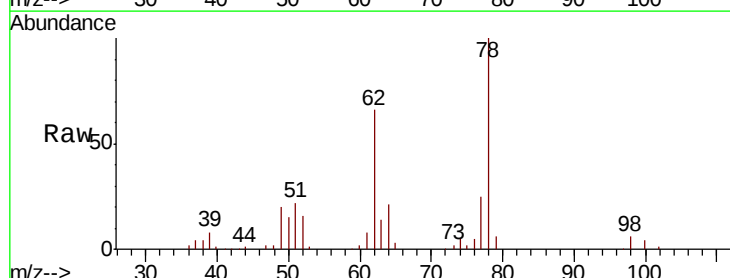
Manual Integrations
APPROVED

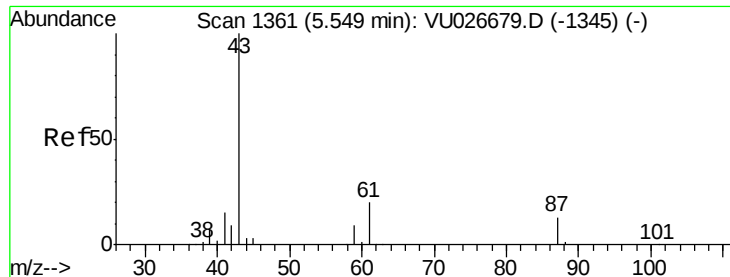
MMDadoda
9/13/2018 4:48:53 PM



#42
1,2-Dichloroethane
Concen: 20.04 ug/l
RT: 5.41 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

Tgt Ion	Ion	Ratio	Lower	Upper
38264	62	100		
	98	8.6	0.0	17.8





#43

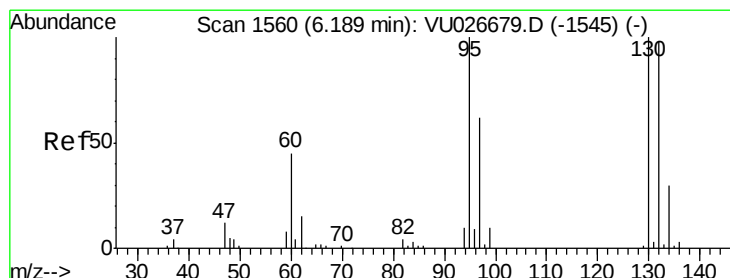
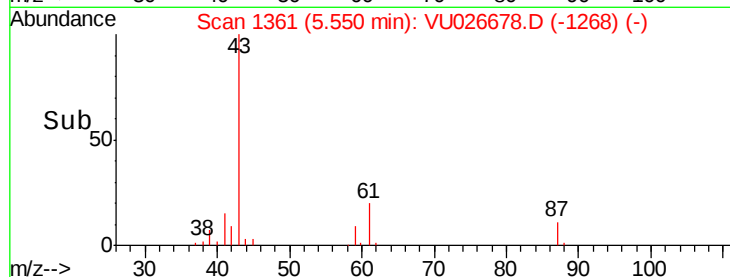
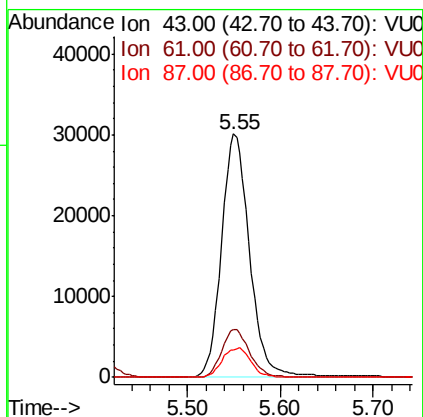
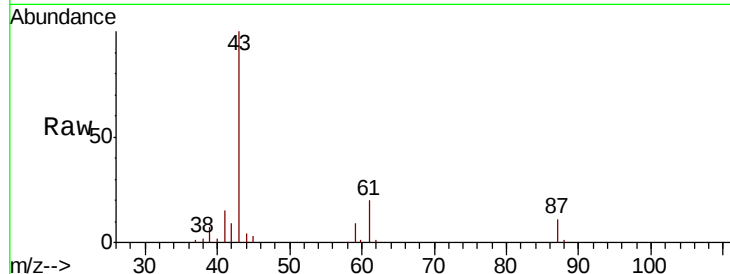
Isopropyl Acetate
 Concen: 20.05 ug/l
 RT: 5.55 min Scan# 1361
 Delta R.T. 0.00 min
 Lab File: VU026678.D
 Acq: 11 Sep 2018 11:20

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	19.4	16.0	24.0
87	12.2	10.1	15.1

Manual Integrations
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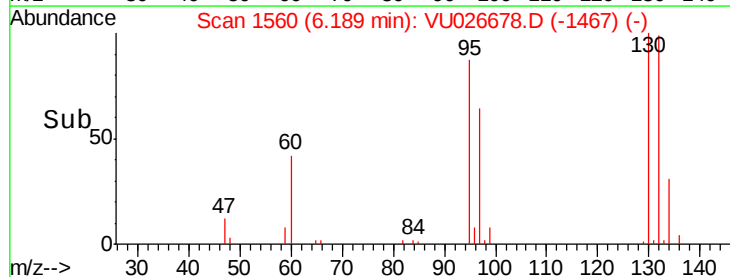
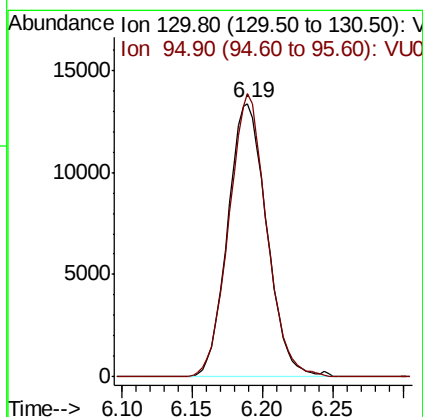
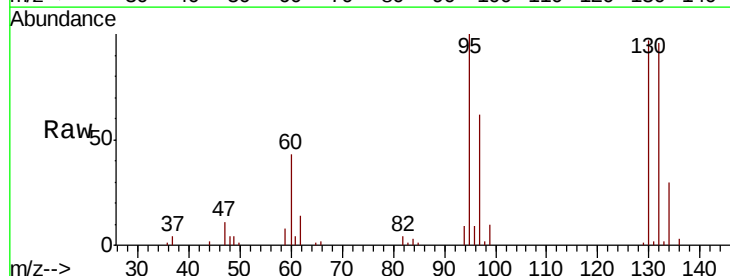
MMDadoda
 9/13/2018 4:48:53 PM

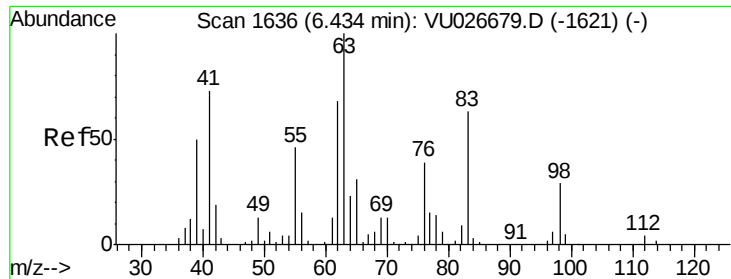


#44

Trichloroethene
 Concen: 19.58 ug/l
 RT: 6.19 min Scan# 1560
 Delta R.T. 0.00 min
 Lab File: VU026678.D
 Acq: 11 Sep 2018 11:20

Tgt Ion	Ratio	Lower	Upper
130	100		
95	103.4	0.0	199.4





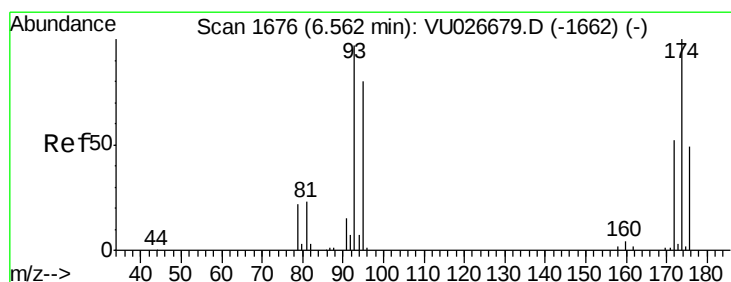
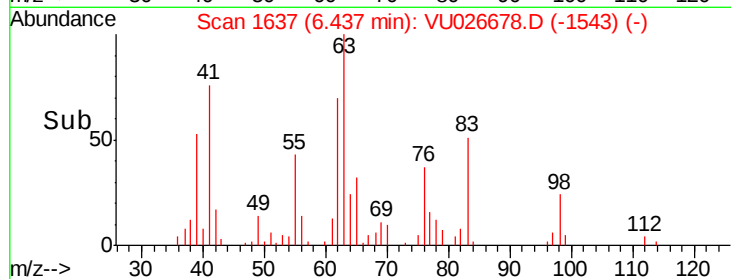
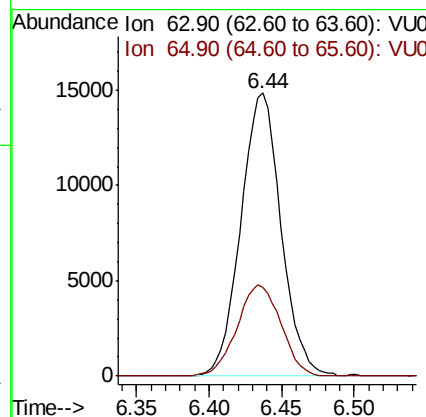
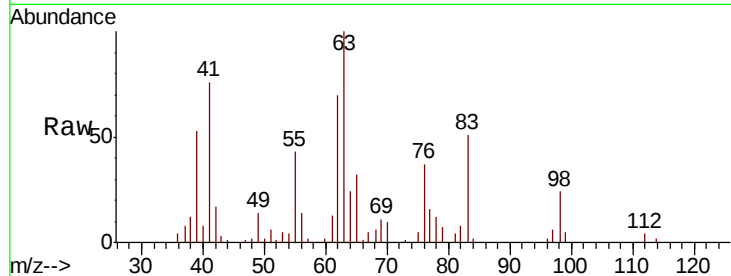
#45
 1,2-Dichloropropane
 Concen: 19.69 ug/l
 RT: 6.44 min Scan# 1637
 Delta R.T. 0.00 min
 Lab File: VU026678.D
 Acq: 11 Sep 2018 11:20

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tot Ion: 63 Resp: 28665
 Ion Ratio Lower Upper
 63 100
 65 31.6 25.0 37.4

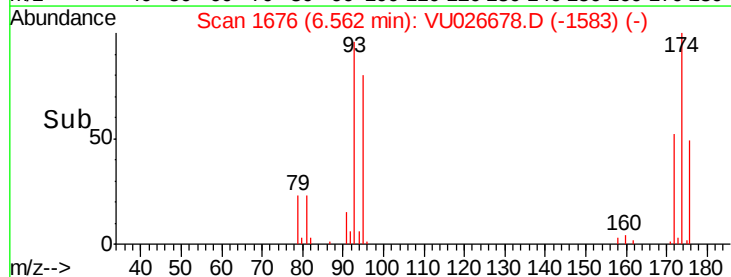
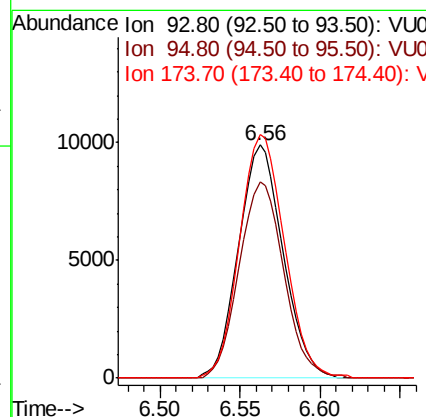
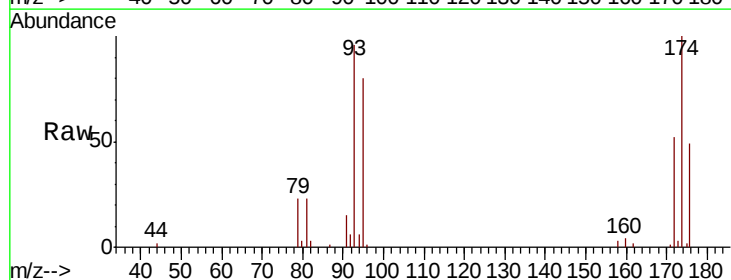
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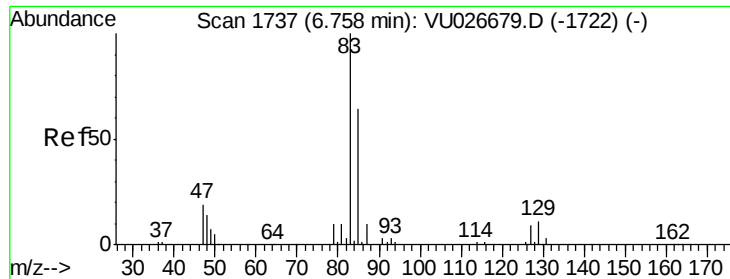
MMDadoda
 9/13/2018 4:48:53 PM



#46
 Dibromomethane
 Concen: 20.02 ug/l
 RT: 6.56 min Scan# 1676
 Delta R.T. 0.00 min
 Lab File: VU026678.D
 Acq: 11 Sep 2018 11:20

Tgt Ion: 93 Resp: 18805
 Ion Ratio Lower Upper
 93 100
 95 84.6 65.4 98.2
 174 105.4 81.6 122.4





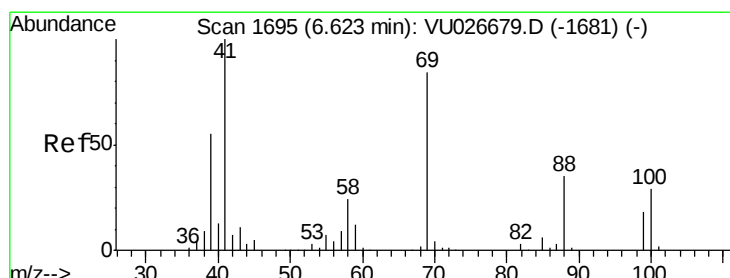
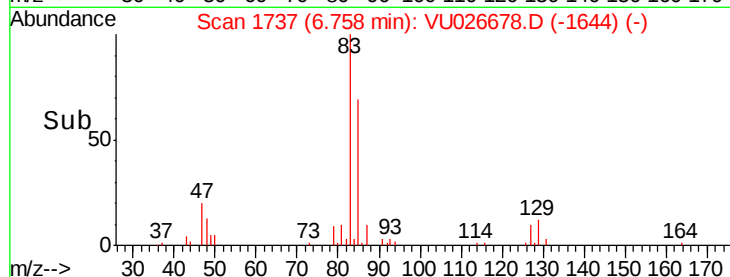
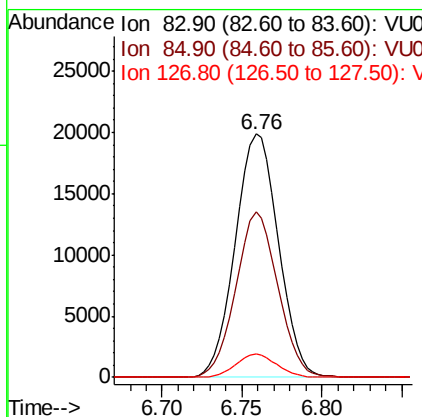
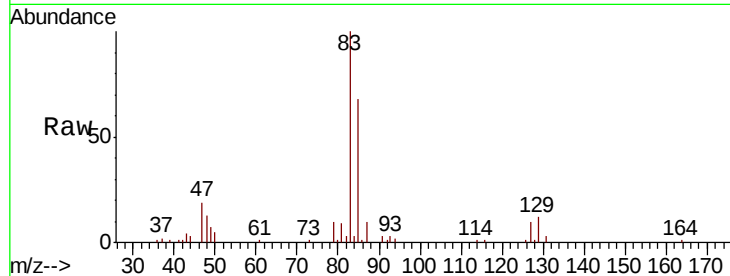
#47
Bromodichloromethane
Concen: 19.79 ug/l
RT: 6.76 min Scan# 1737
Delta R.T. 0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
83	100		
85	67.9	51.1	76.7
127	9.6	6.9	10.3

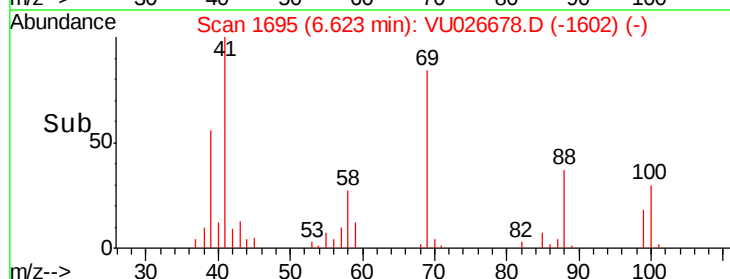
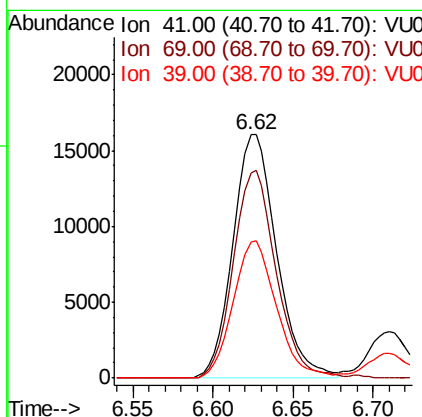
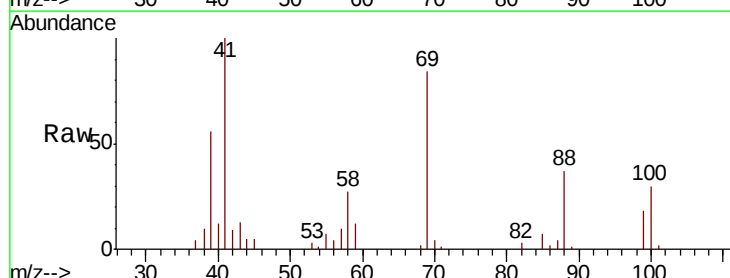
Manual Integrations
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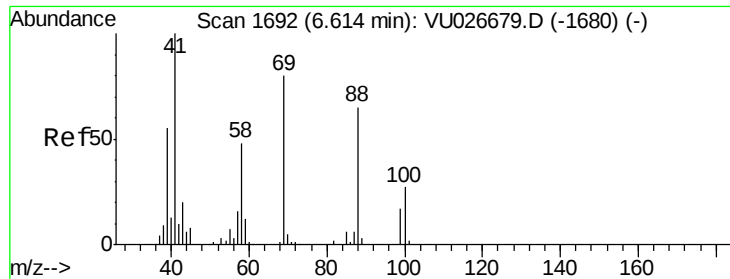
MMDadoda
9/13/2018 4:48:53 PM



#48
Methyl methacrylate
Concen: 19.29 ug/l
RT: 6.62 min Scan# 1695
Delta R.T. 0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

Tgt Ion	Ratio	Lower	Upper
41	100		
69	83.1	66.6	99.8
39	55.4	43.6	65.4





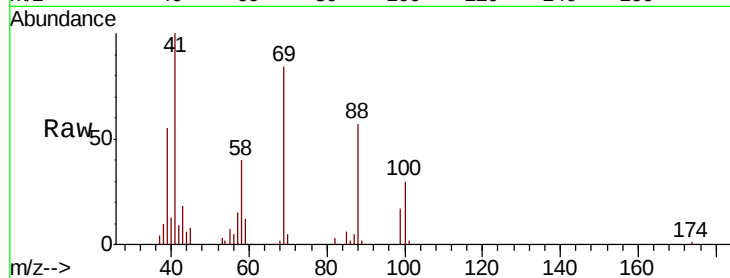
#49
1,4-Dioxane
Concen: 389.40 ug/l
RT: 6.62 min Scan# 1693
Delta R.T. 0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
88	100		
43	33.3	25.5	38.3
58	74.6	58.2	87.4

Manual Integrations
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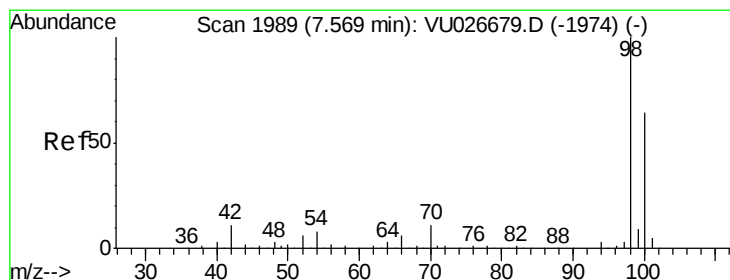
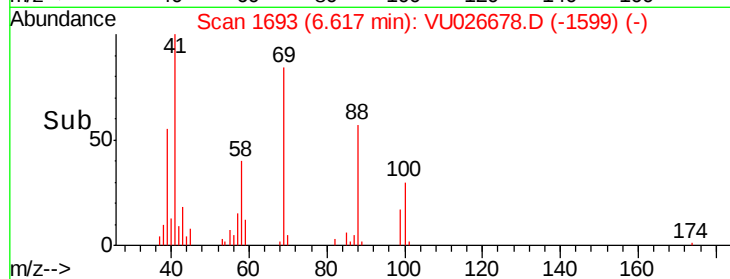
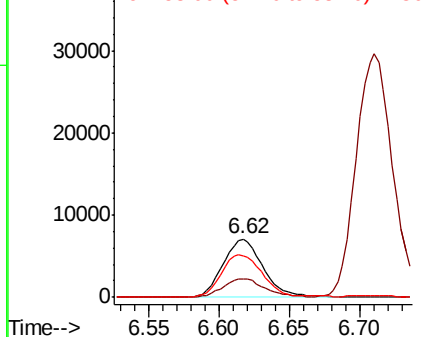


Abundance

Ion 88.00 (87.70 to 88.70): VU026678.D (-1680) (-)

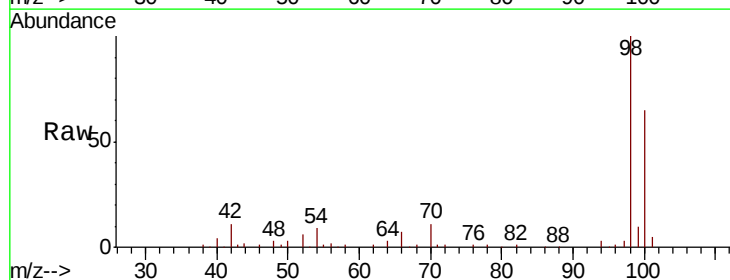
Ion 43.00 (42.70 to 43.70): VU026678.D (-1680) (-)

Ion 58.00 (57.70 to 58.70): VU026678.D (-1680) (-)



#50
Toluene-d8
Concen: 16.63 ug/l
RT: 7.57 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

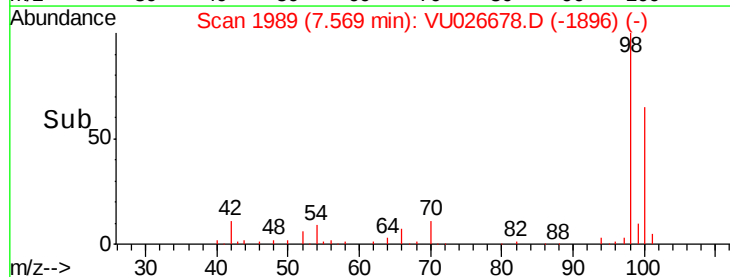
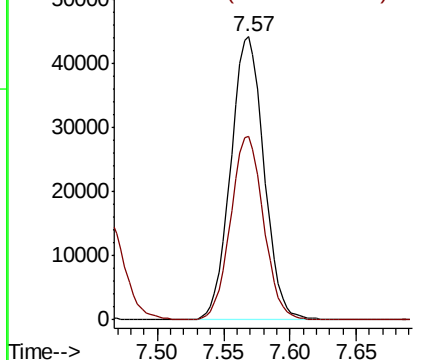
Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.3	51.2	76.8

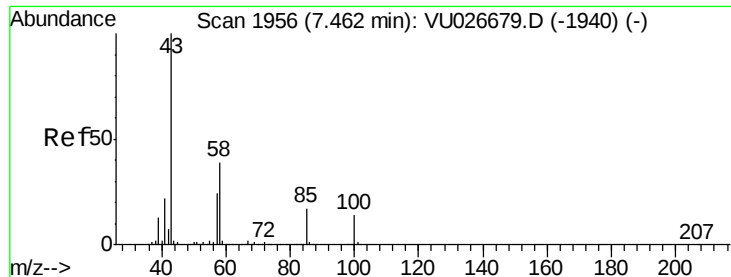


Abundance

Ion 98.00 (97.70 to 98.70): VU026678.D (-1896) (-)

Ion 100.00 (99.70 to 100.70): VU026678.D (-1896) (-)





#51

4-Methyl-2-Pentanone

Concen: 97.07 ug/l

RT: 7.46 min Scan# 1956

Delta R.T. 0.00 min

Lab File: VU026678.D

Acq: 11 Sep 2018 11:20

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 204990

Ion Ratio Lower Upper

43 100

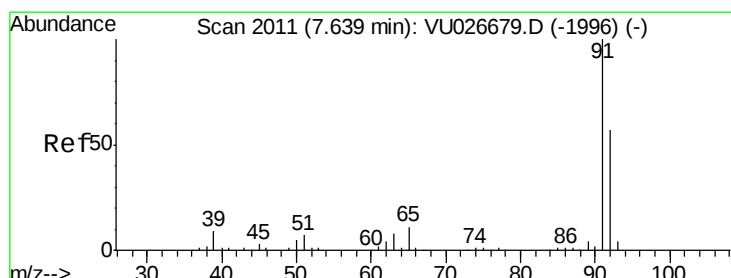
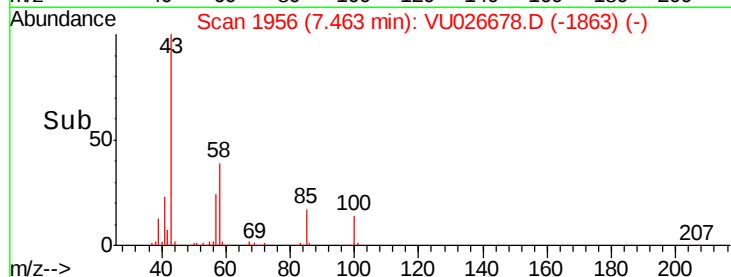
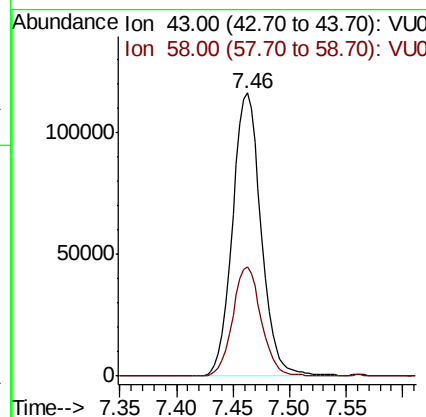
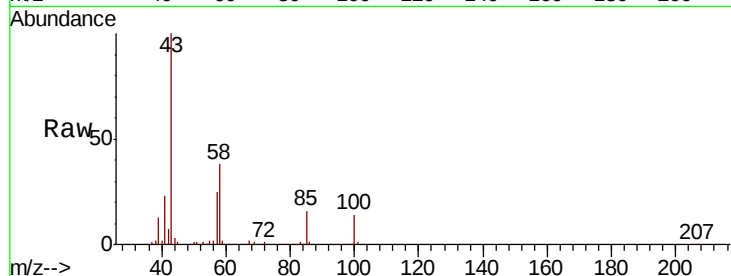
58 38.3 31.1 46.7

Manual Integrations

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#52

Toluene

Concen: 19.97 ug/l

RT: 7.64 min Scan# 2011

Delta R.T. 0.00 min

Lab File: VU026678.D

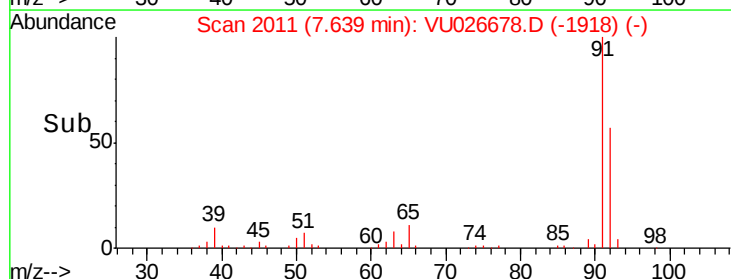
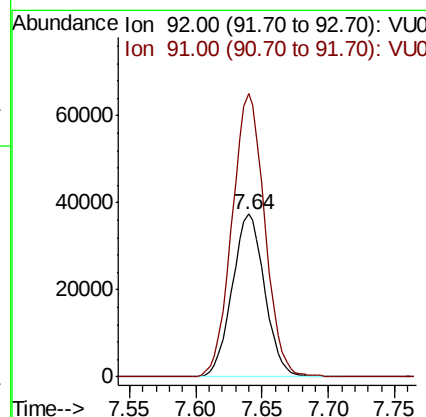
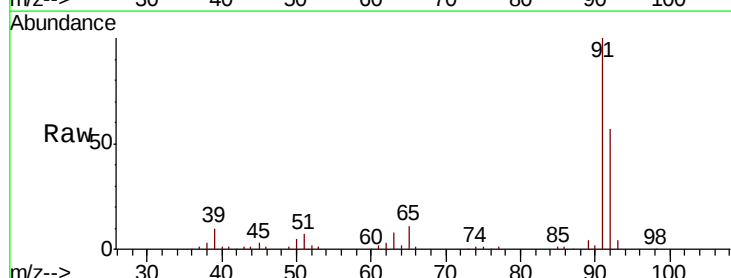
Acq: 11 Sep 2018 11:20

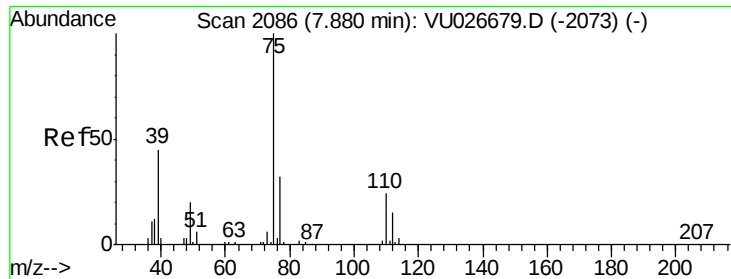
Tgt Ion: 92 Resp: 63689

Ion Ratio Lower Upper

92 100

91 175.5 141.1 211.7





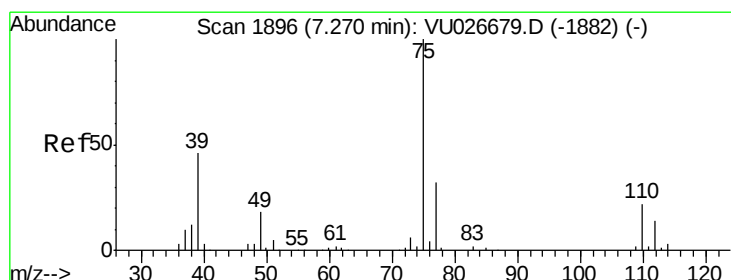
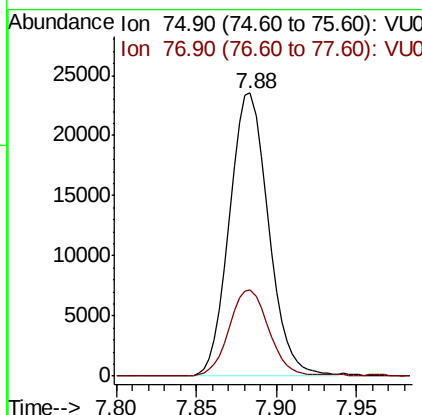
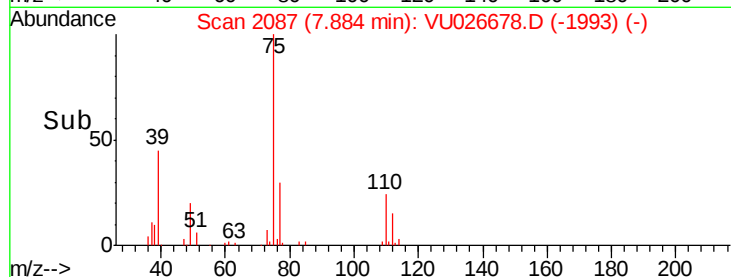
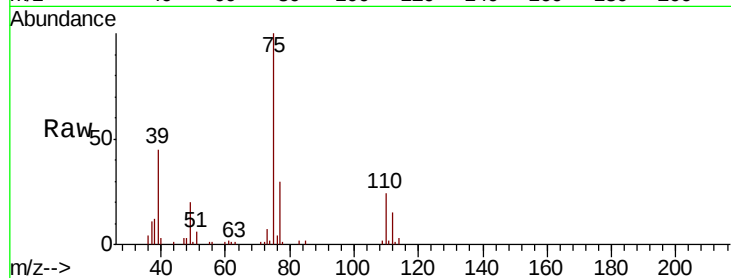
#53
t-1,3-Dichloropropene
Concen: 19.11 ug/l
RT: 7.88 min Scan# 2087
Delta R.T. 0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
75	100		
77	30.3	25.2	37.8

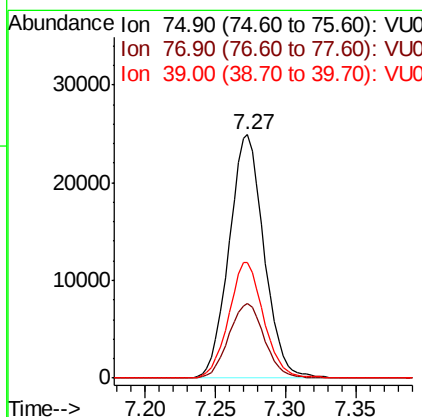
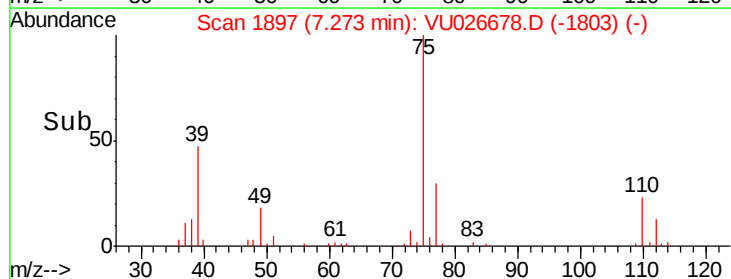
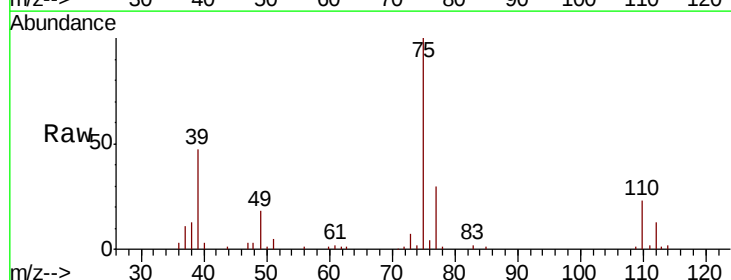
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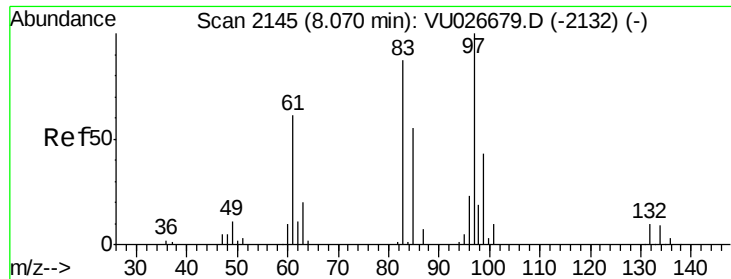
MMDadoda
9/13/2018 4:48:53 PM



#54
cis-1,3-Dichloropropene
Concen: 19.63 ug/l
RT: 7.27 min Scan# 1897
Delta R.T. 0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

Tgt Ion	Ratio	Lower	Upper
75	100		
77	30.4	25.5	38.3
39	47.2	37.0	55.6





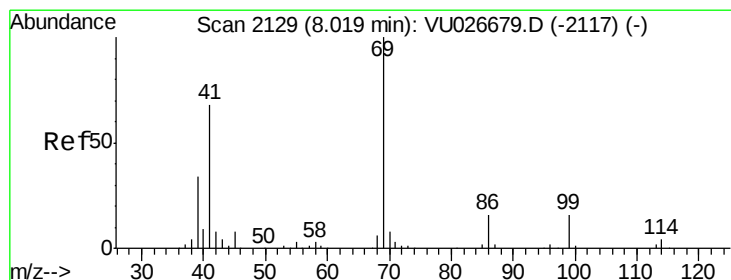
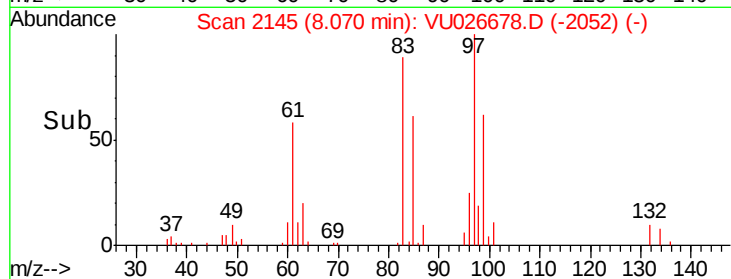
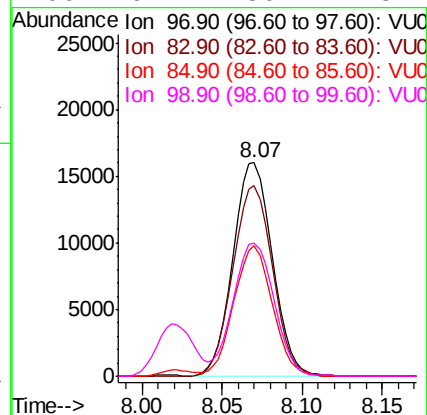
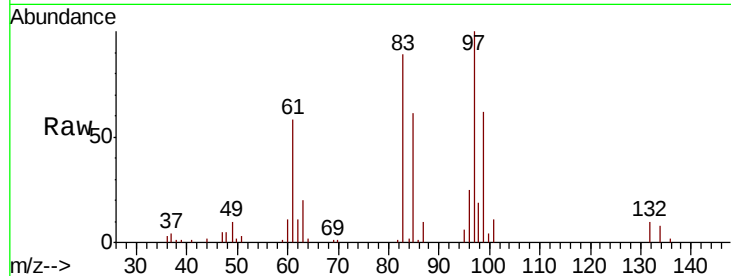
#55
 1,1,2-Trichloroethane
 Concen: 19.77 ug/l
 RT: 8.07 min Scan# 2145
 Delta R.T. 0.00 min
 Lab File: VU026678.D
 Acq: 11 Sep 2018 11:20

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100				
83	89.3	69.3	103.9		
85	61.0	45.9	68.9		
99	62.1	50.1	75.1		

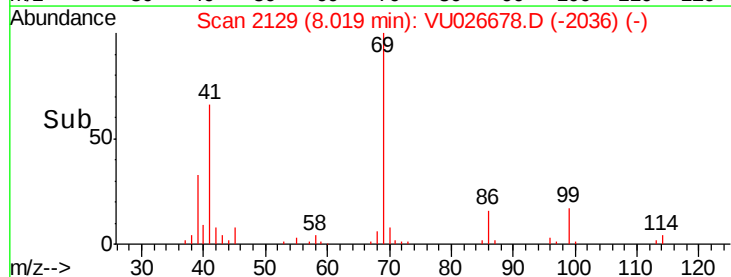
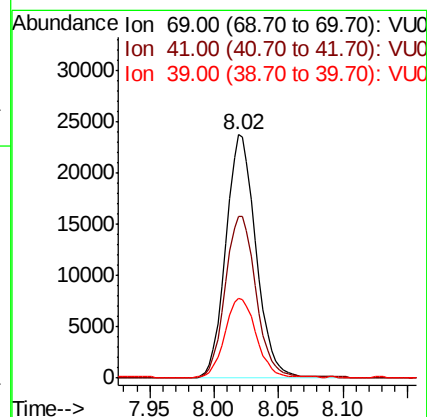
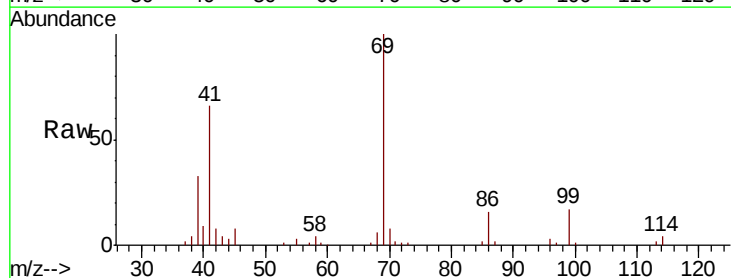
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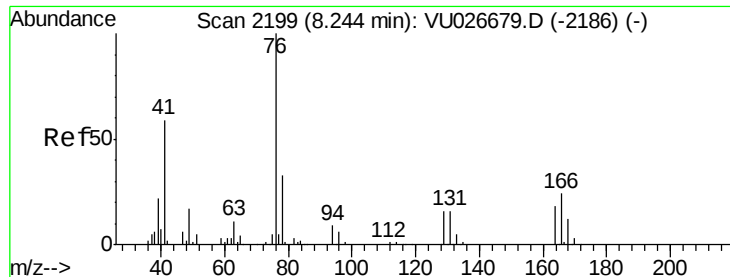
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#56
 Ethyl methacrylate
 Concen: 19.33 ug/l
 RT: 8.02 min Scan# 2129
 Delta R.T. 0.00 min
 Lab File: VU026678.D
 Acq: 11 Sep 2018 11:20

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100				
41	68.3	54.2	81.2		
39	34.2	28.4	42.6		





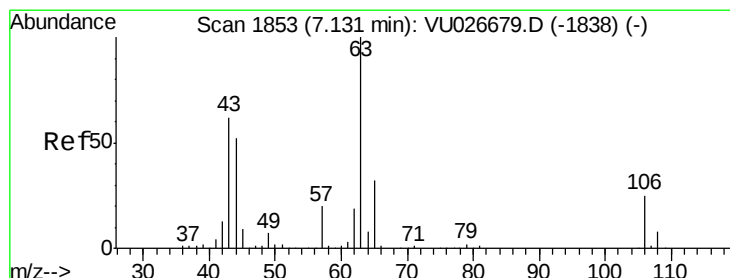
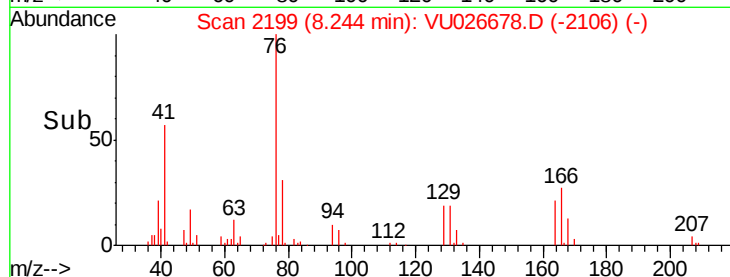
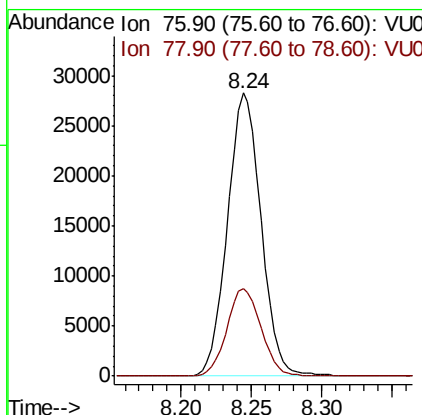
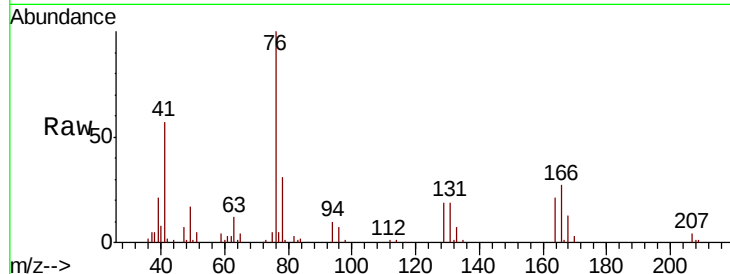
#57
 1,3-Dichloropropane
 Concen: 20.24 ug/l
 RT: 8.24 min Scan# 2199
 Delta R.T. 0.00 min
 Lab File: VU026678.D
 Acq: 11 Sep 2018 11:20

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tot Ion: 76 Resp: 47144
 Ion Ratio Lower Upper
 76 100
 78 31.5 26.0 39.0

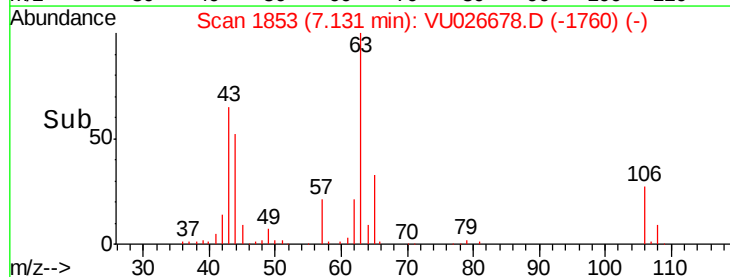
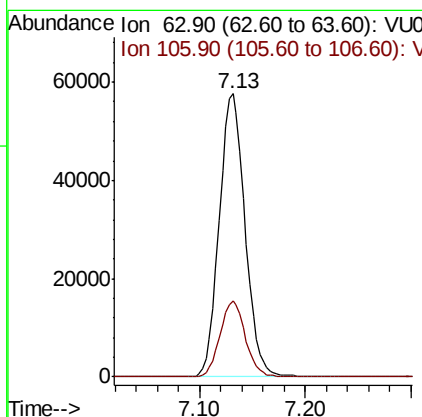
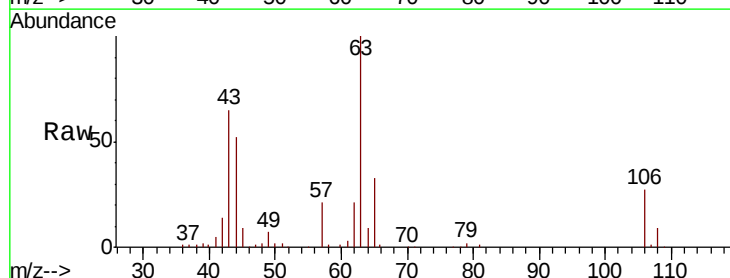
Manual Integrations
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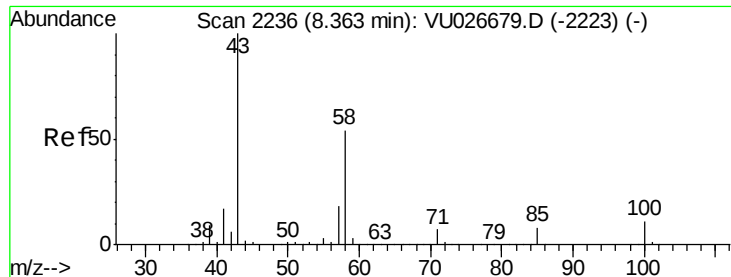
MMDadoda
 9/13/2018 4:48:53 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 99.30 ug/l
 RT: 7.13 min Scan# 1853
 Delta R.T. 0.00 min
 Lab File: VU026678.D
 Acq: 11 Sep 2018 11:20

Tgt Ion: 63 Resp: 97677
 Ion Ratio Lower Upper
 63 100
 106 26.2 20.5 30.7





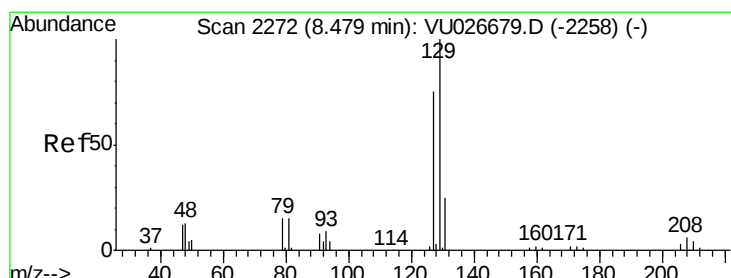
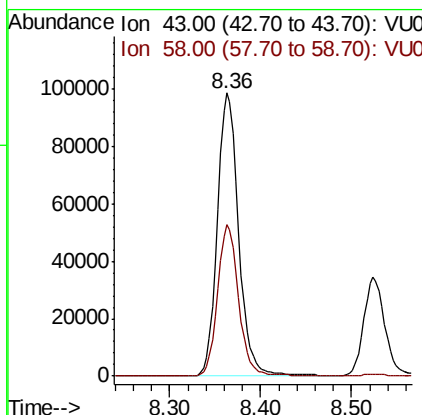
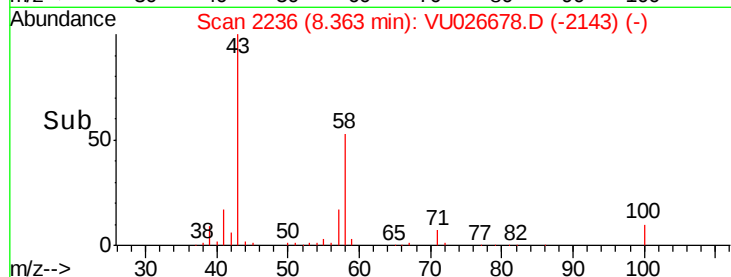
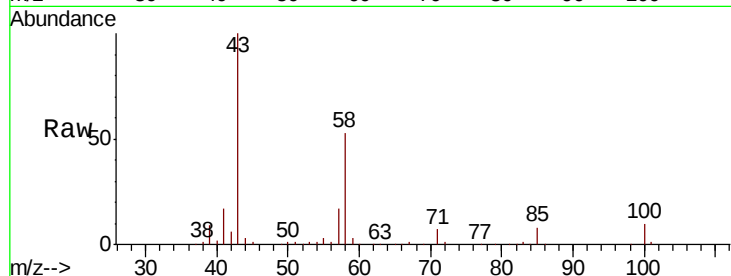
#59
2-Hexanone
Concen: 96.38 ug/l
RT: 8.36 min Scan# 2236
Delta R.T. 0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
58	52.8	26.9	80.7

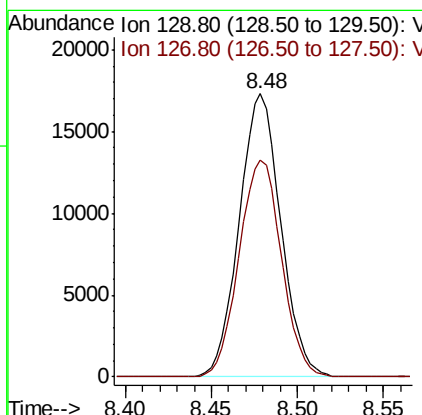
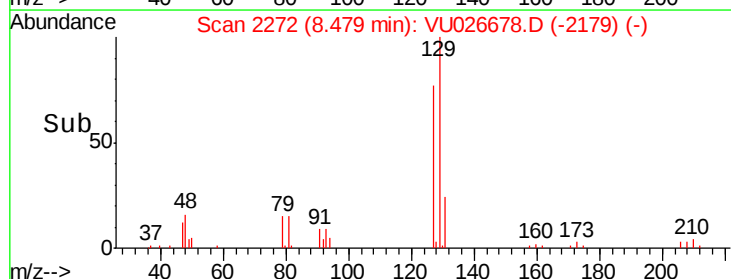
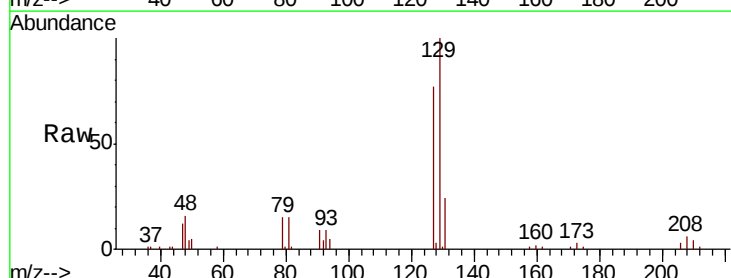
Manual Integrations
APPROVED

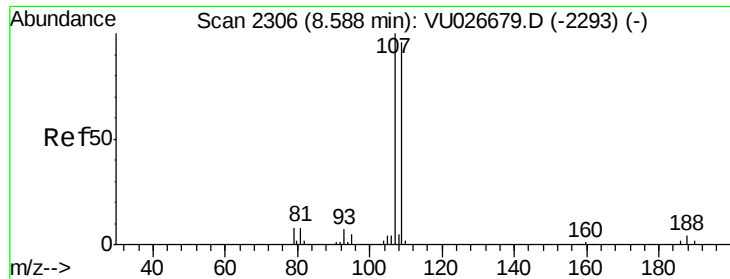
MMDadoda
9/13/2018 4:48:53 PM



#60
Dibromochloromethane
Concen: 19.60 ug/l
RT: 8.48 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.1	38.3	114.9





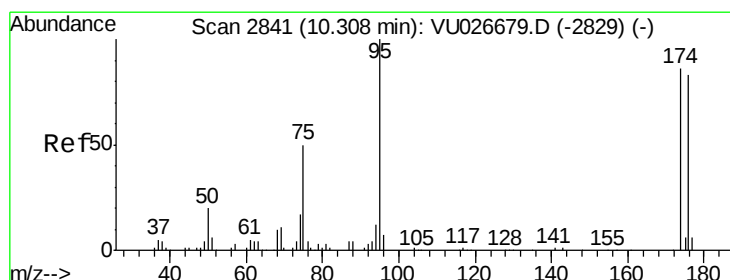
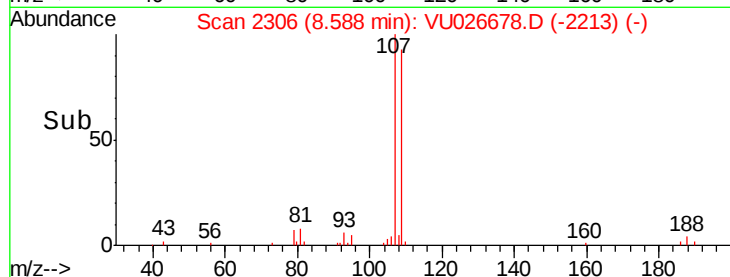
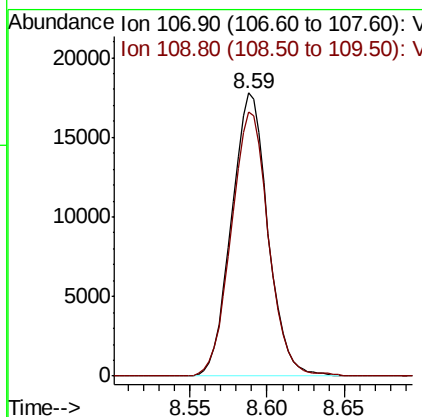
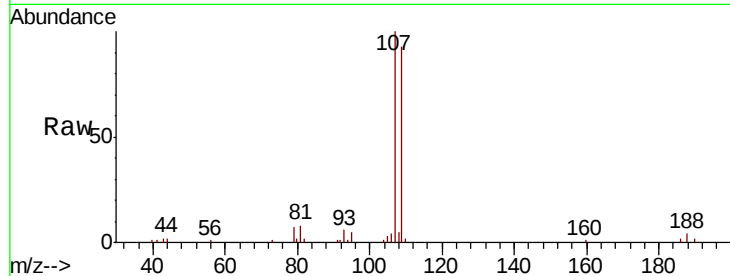
#61
 1,2-Dibromoethane
 Concen: 19.58 ug/l
 RT: 8.59 min Scan# 2306
 Delta R.T. 0.00 min
 Lab File: VU026678.D
 Acq: 11 Sep 2018 11:20

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.4	75.7	113.5

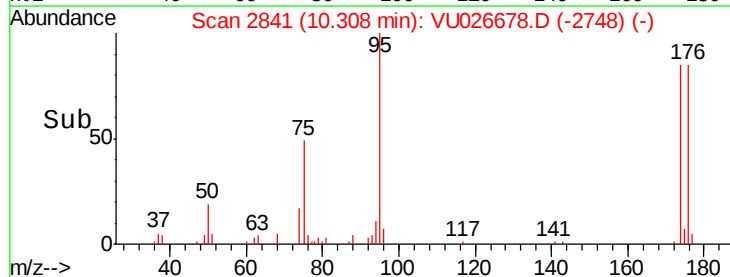
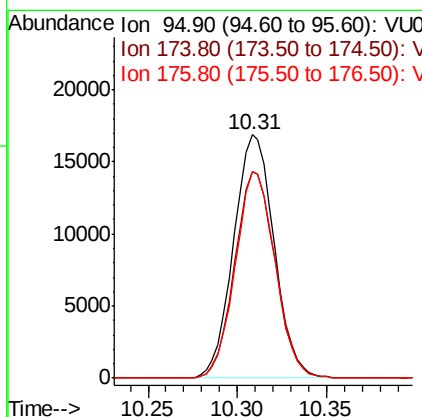
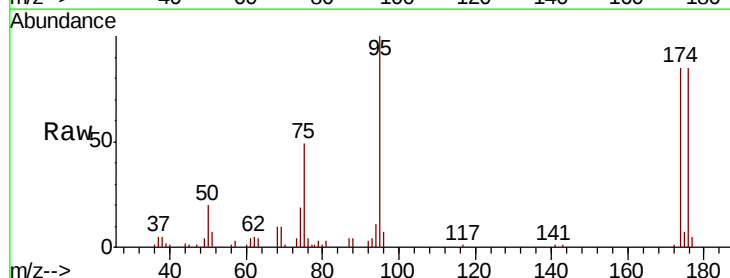
Manual Integrations
 APPROVED

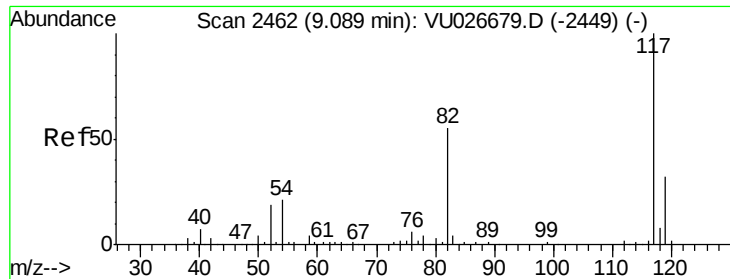
MMDadoda
 9/13/2018 4:48:53 PM



#62
 4-Bromofluorobenzene
 Concen: 15.83 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. 0.00 min
 Lab File: VU026678.D
 Acq: 11 Sep 2018 11:20

Tgt Ion	Ratio	Lower	Upper
95	100		
174	85.2	0.0	172.8
176	83.6	0.0	168.6





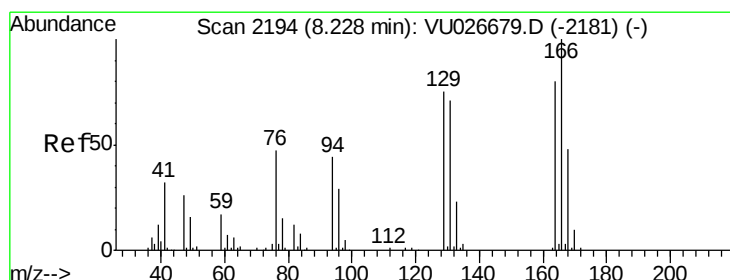
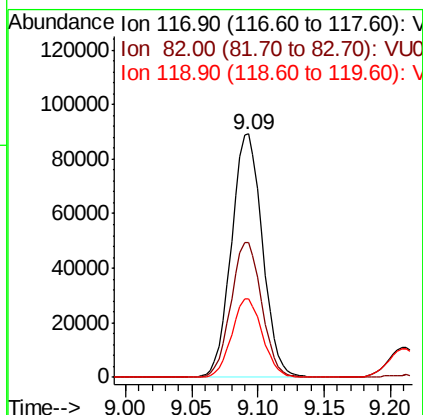
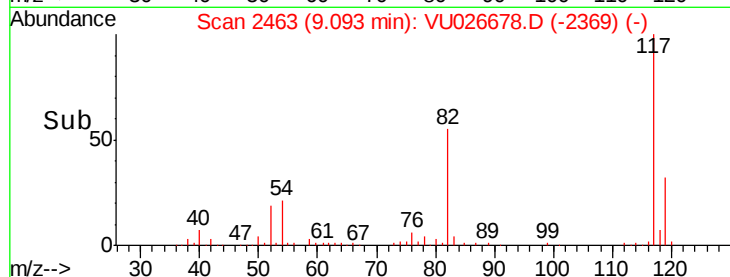
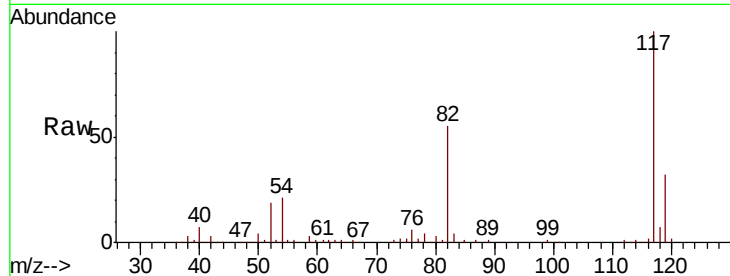
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2463
Delta R.T. 0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.3	44.1	66.1
119	32.0	25.7	38.5

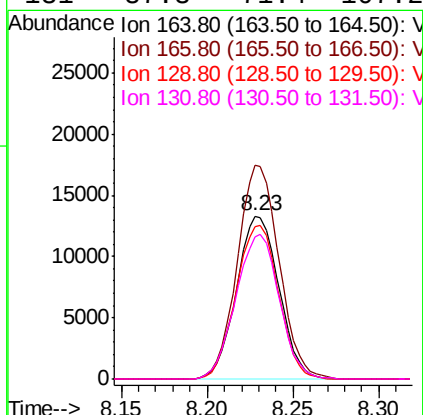
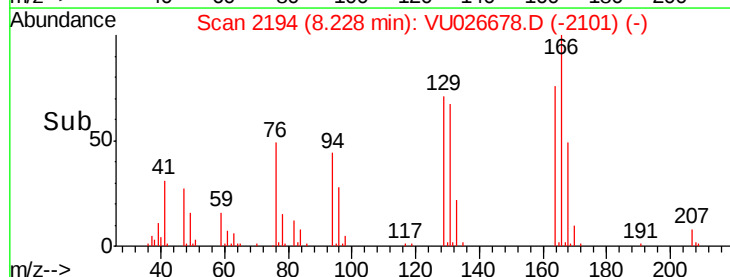
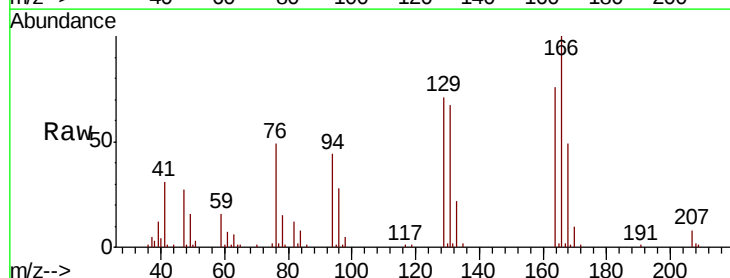
Manual Integrations
APPROVED

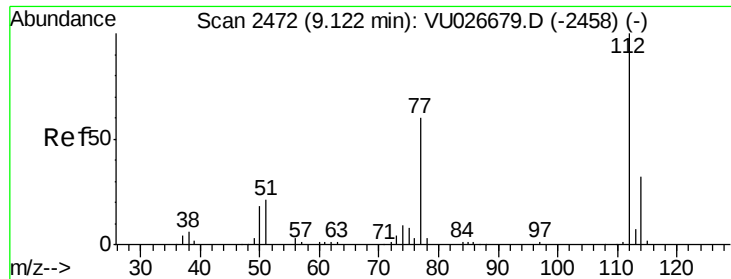
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#64
Tetrachloroethene
Concen: 19.68 ug/l
RT: 8.23 min Scan# 2194
Delta R.T. 0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

Tgt Ion	Ratio	Lower	Upper
164	100		
166	130.9	100.5	150.7
129	93.1	75.3	112.9
131	87.3	71.4	107.2





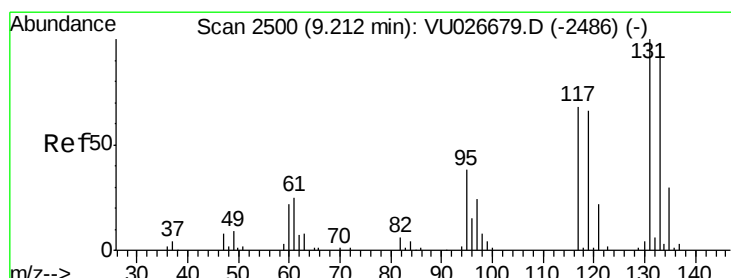
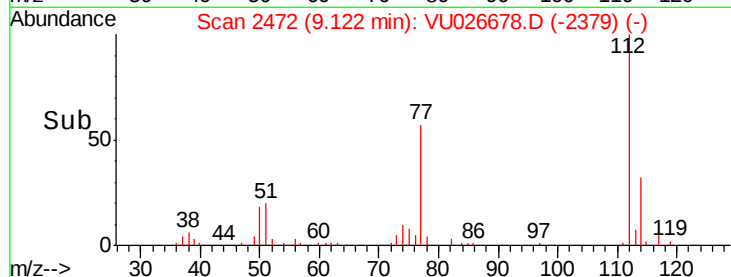
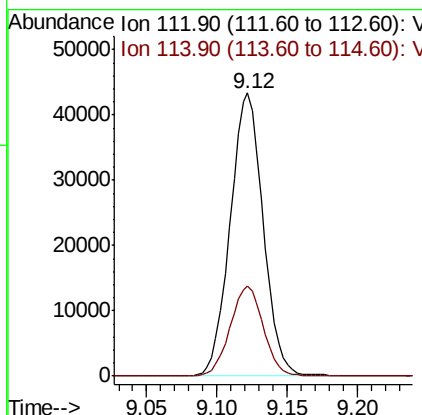
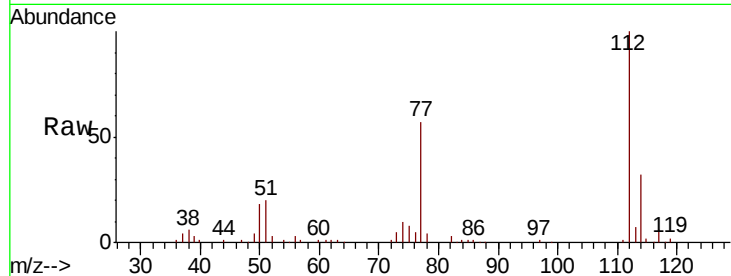
#65
Chlorobenzene
Concen: 19.71 ug/l
RT: 9.12 min Scan# 2472
Delta R.T. 0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion:112 Resp: 71093
Ion Ratio Lower Upper
112 100
114 31.9 25.5 38.3

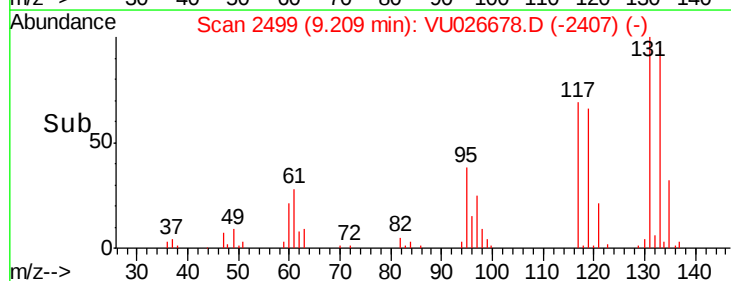
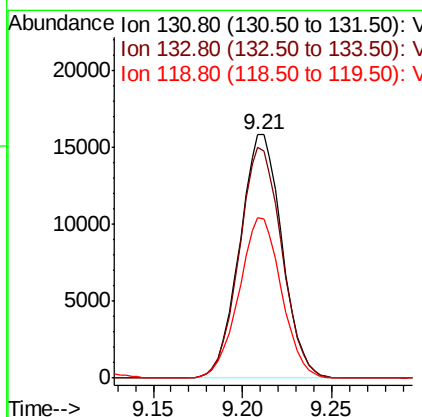
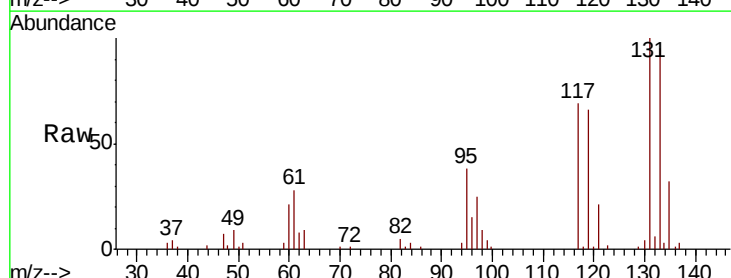
Manual Integrations
APPROVED

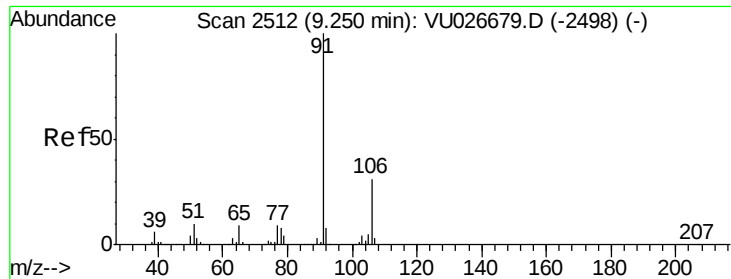
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 19.75 ug/l
RT: 9.21 min Scan# 2499
Delta R.T. -0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

Tgt Ion:131 Resp: 26211
Ion Ratio Lower Upper
131 100
133 95.4 48.9 146.6
119 65.8 32.7 98.1





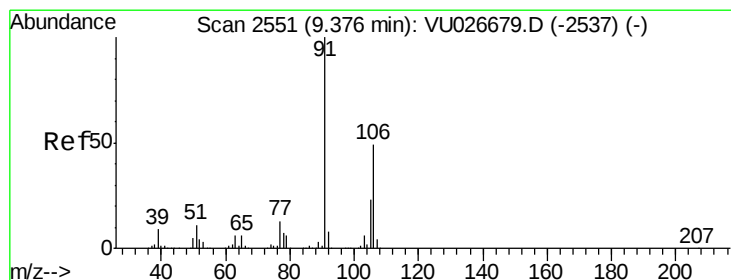
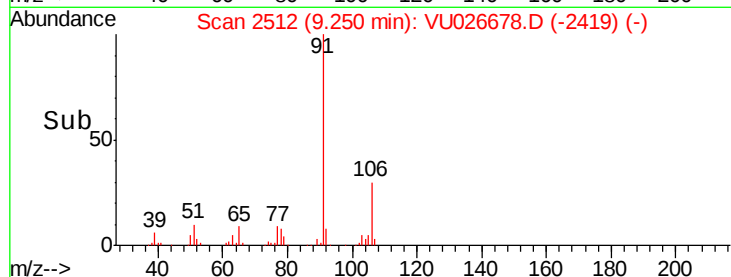
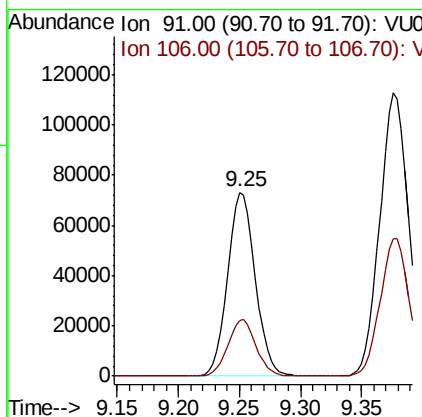
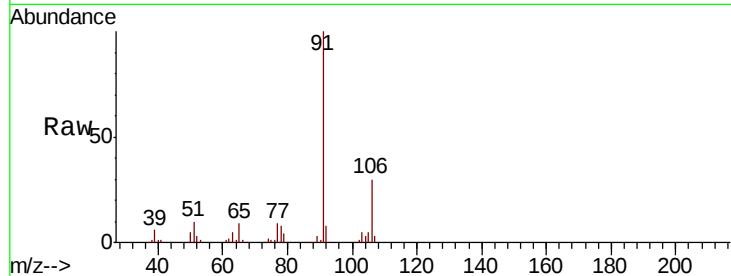
#67
Ethyl Benzene
Concen: 19.57 ug/l
RT: 9.25 min Scan# 2512
Delta R.T. 0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
91	100		
106	30.4	25.0	37.4

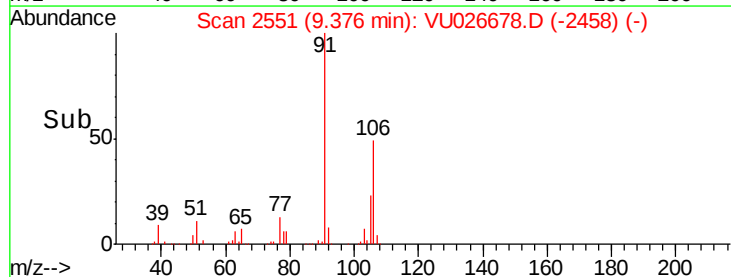
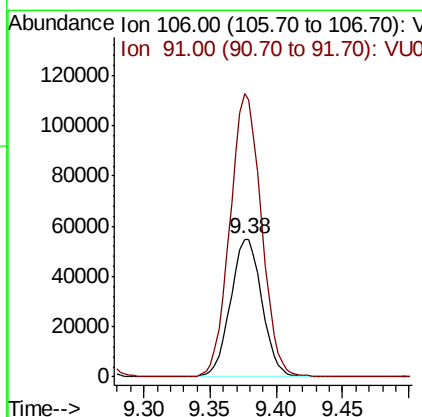
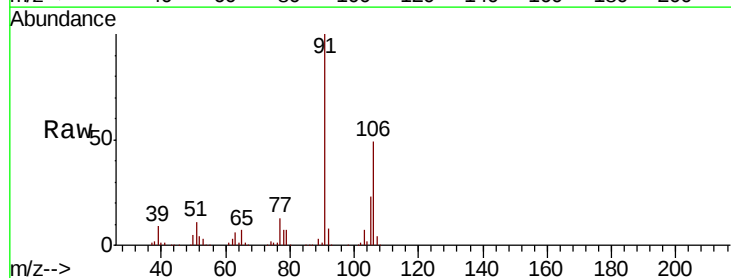
Manual Integrations
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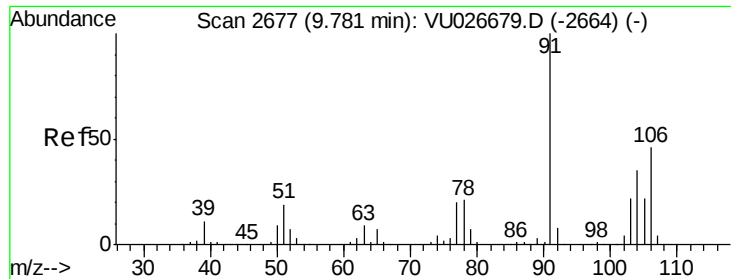
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#68
m/p-Xylenes
Concen: 40.11 ug/l
RT: 9.38 min Scan# 2551
Delta R.T. 0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

Tgt Ion	Ratio	Lower	Upper
106	100		
91	205.6	162.1	243.1





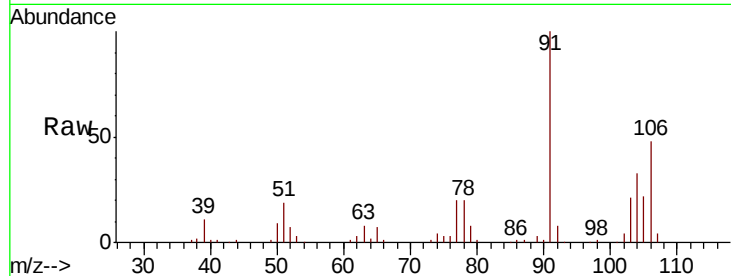
#69
o-Xylene
Concen: 20.12 ug/l
RT: 9.78 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

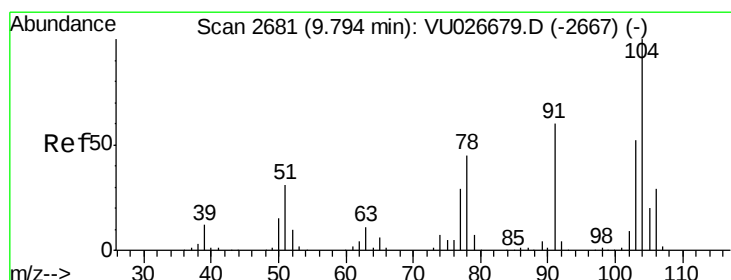
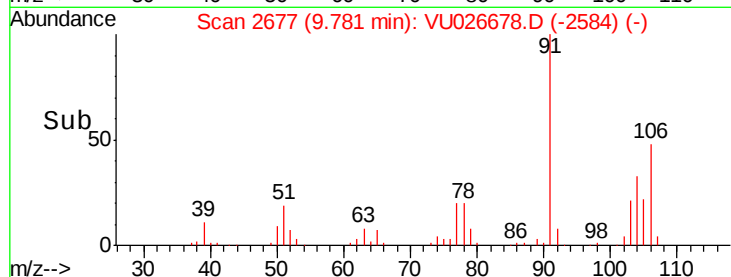
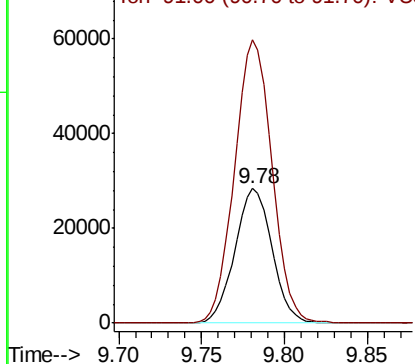
Tot Ion	Ratio	Lower	Upper
106	100		
91	212.3	106.9	320.8

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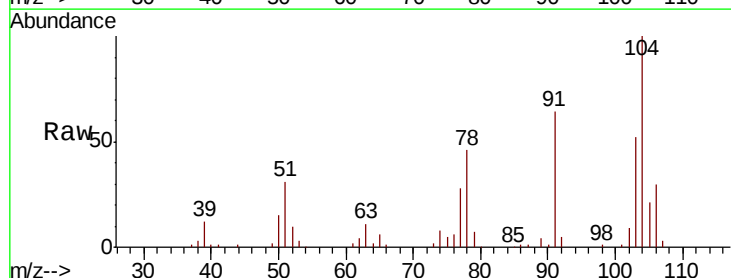


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

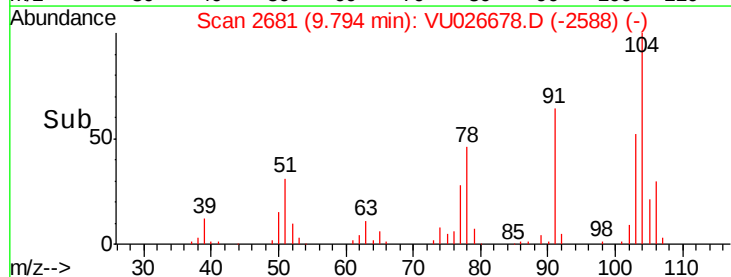
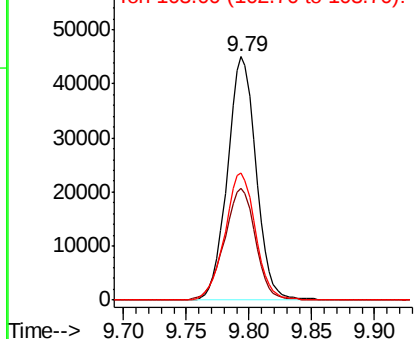


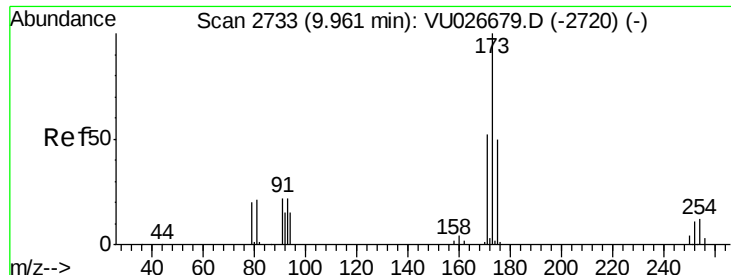
#70
Styrene
Concen: 19.82 ug/l
RT: 9.79 min Scan# 2681
Delta R.T. 0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

Tgt Ion	Ratio	Lower	Upper
104	100		
78	49.8	39.4	59.2
103	56.0	44.5	66.7



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 19.52 ug/l

RT: 9.96 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU026678.D

Acq: 11 Sep 2018 11:20

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tot Ion:173 Resp: 22538

Ion Ratio Lower Upper

173 100

175 49.4 24.7 74.1

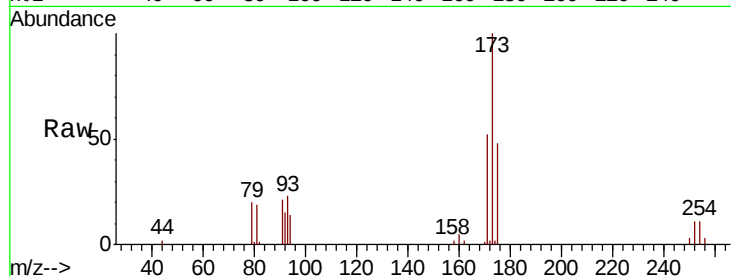
254 0.0 0.0 0.0

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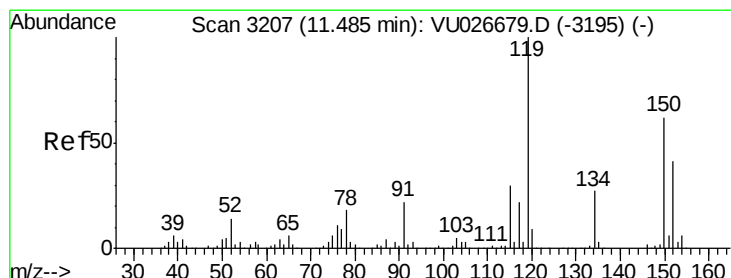
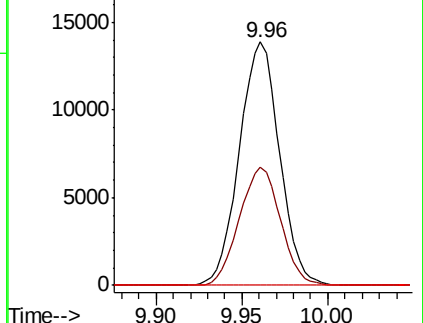
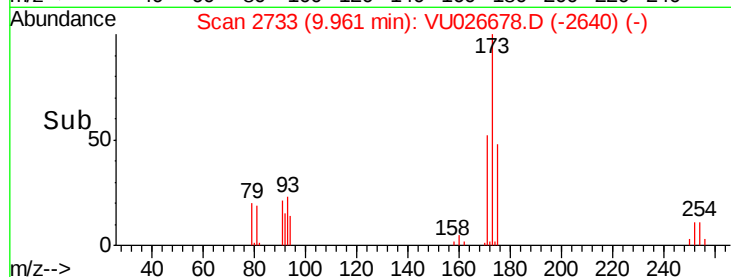
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Abundance Ion 172.70 (172.40 to 173.40): V

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: 11.48 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU026678.D

Acq: 11 Sep 2018 11:20

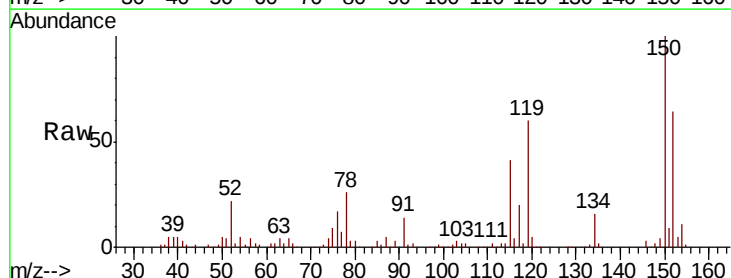
Tgt Ion:152 Resp: 82339

Ion Ratio Lower Upper

152 100

115 67.8 40.4 121.1

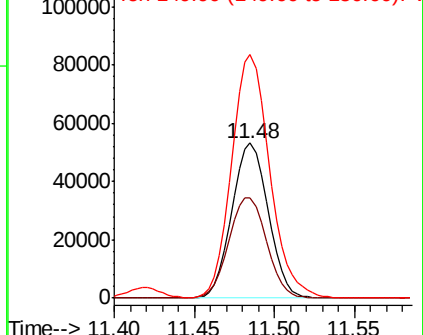
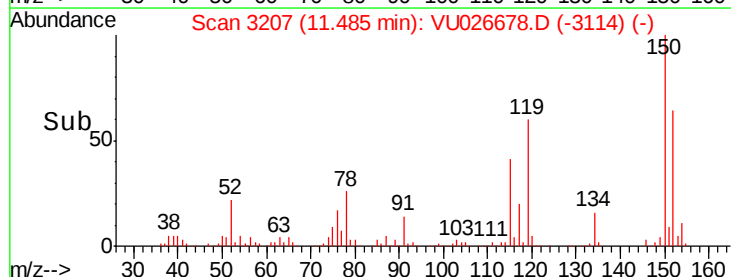
150 164.8 0.0 345.2

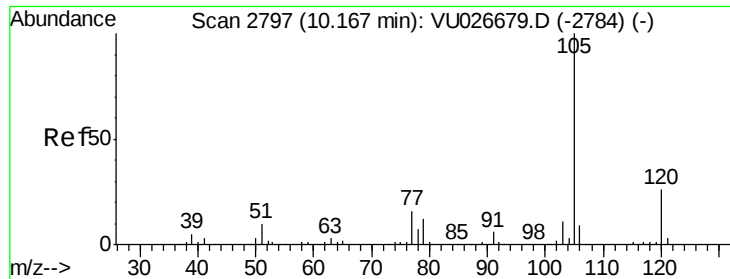


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.96 ug/l

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU026678.D

Acq: 11 Sep 2018 11:20

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tot Ion: 105 Resp: 117611

Ion Ratio Lower Upper

105 100

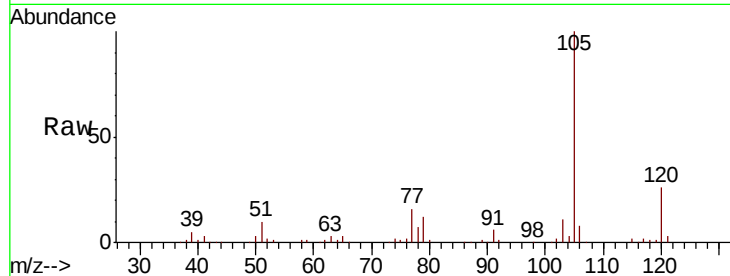
120 26.6 13.3 39.9

Manual Integrations

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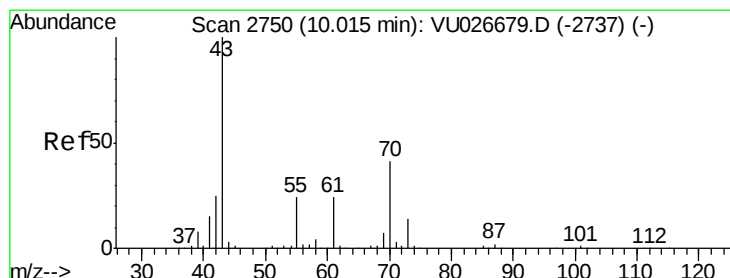
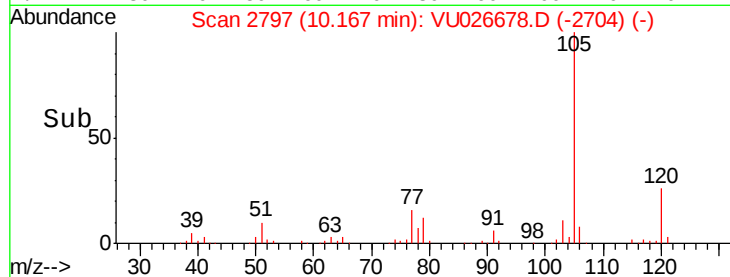
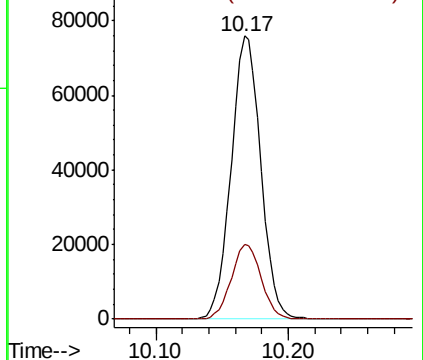
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 19.97 ug/l

RT: 10.01 min Scan# 2749

Delta R.T. -0.00 min

Lab File: VU026678.D

Acq: 11 Sep 2018 11:20

Tgt Ion: 43 Resp: 52902

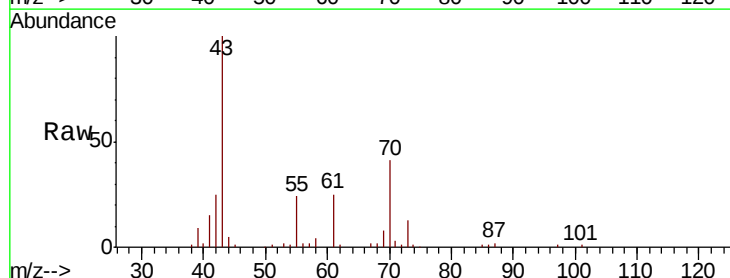
Ion Ratio Lower Upper

43 100

70 39.8 32.6 48.8

55 24.3 19.1 28.7

61 23.7 19.4 29.0

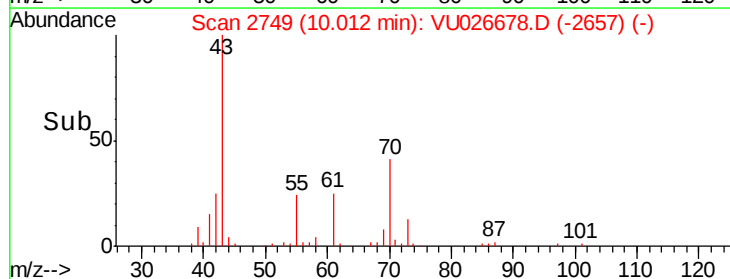
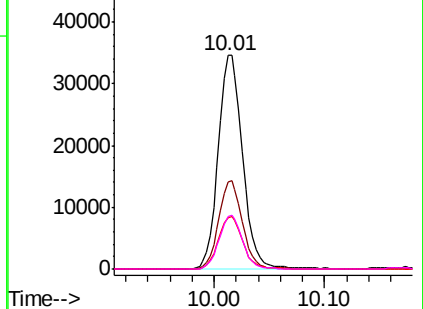


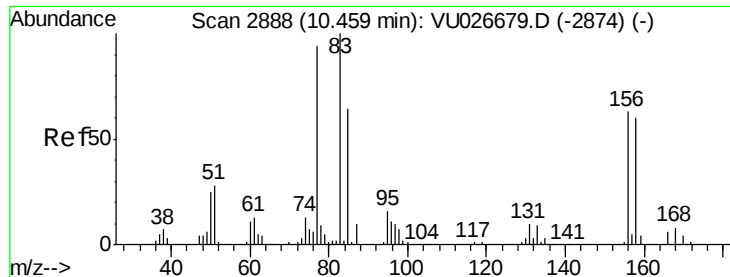
Abundance Ion 43.00 (42.70 to 43.70): VU0

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





#75

1,1,2,2-Tetrachloroethane

Concen: 19.73 ug/l

RT: 10.46 min Scan# 2888

Delta R.T. 0.00 min

Lab File: VU026678.D

Acq: 11 Sep 2018 11:20

Instrument :

MSVOA_U

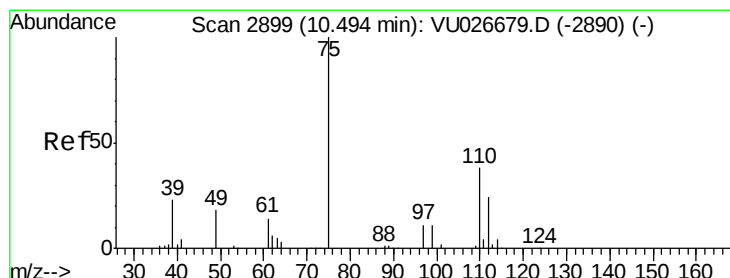
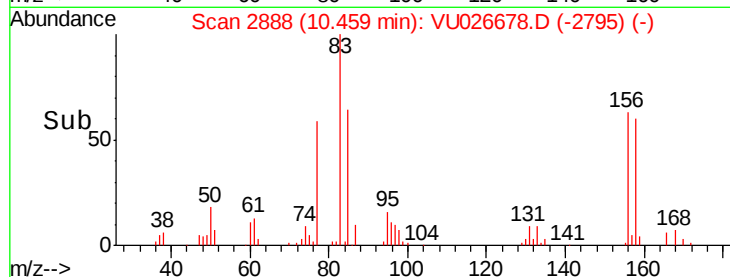
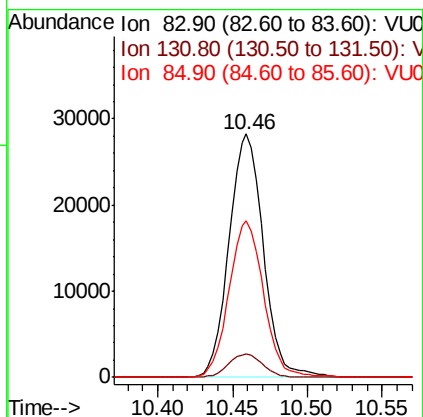
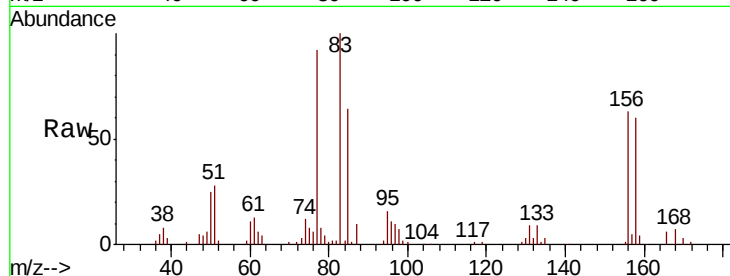
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	45110
Ion Ratio	Lower	Upper	
83	100		
131	9.4	4.9	14.6
85	64.7	32.3	96.9

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 17.61 ug/l m

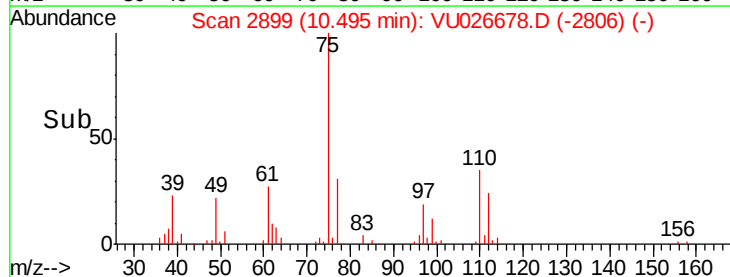
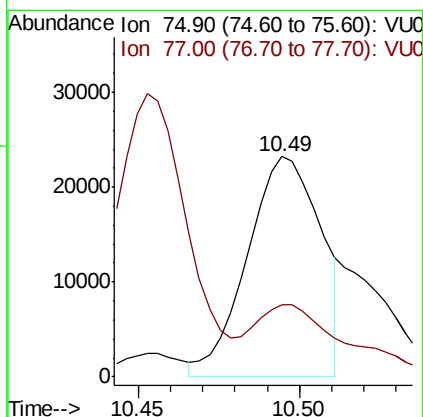
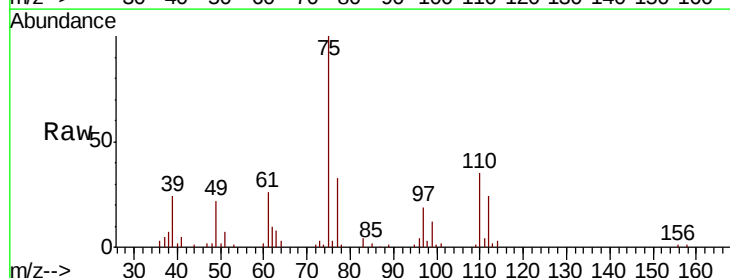
RT: 10.49 min Scan# 2899

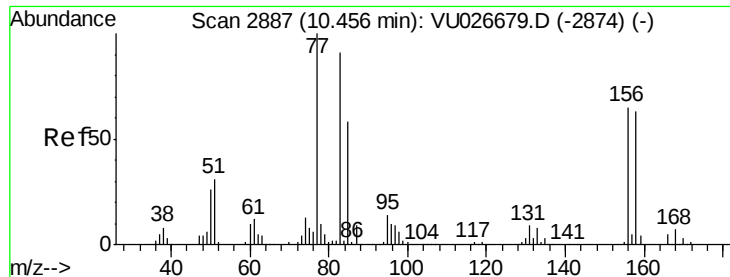
Delta R.T. 0.00 min

Lab File: VU026678.D

Acq: 11 Sep 2018 11:20

Tgt Ion:	75	Resp:	36874
Ion Ratio	Lower	Upper	
75	100		
77	40.7	21.1	63.1





#77

Bromobenzene

Concen: 20.52 ug/l

RT: 10.46 min Scan# 2887

Delta R.T. 0.00 min

Lab File: VU026678.D

Acq: 11 Sep 2018 11:20

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tot Ion:156 Resp: 31286

Ion Ratio Lower Upper

156 100

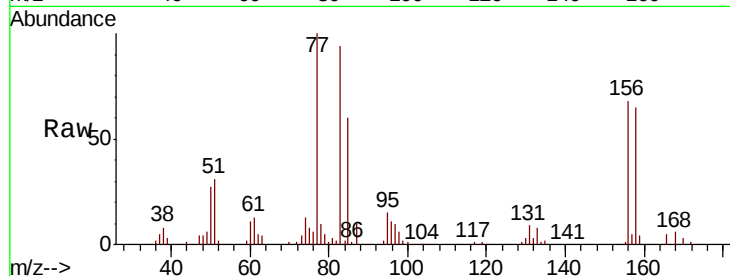
77 151.9 77.6 232.9

158 96.6 48.9 146.6

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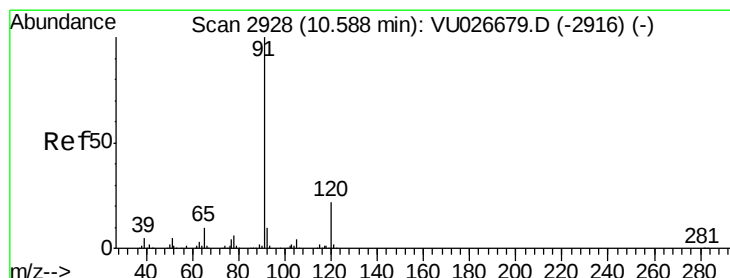
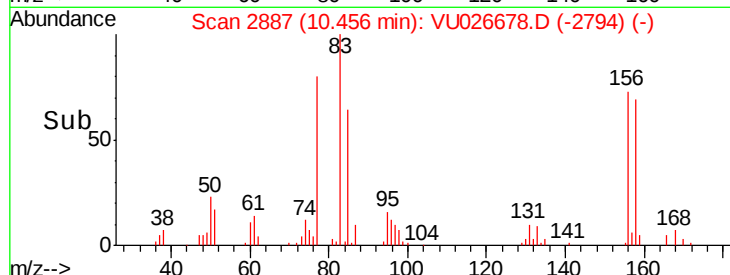
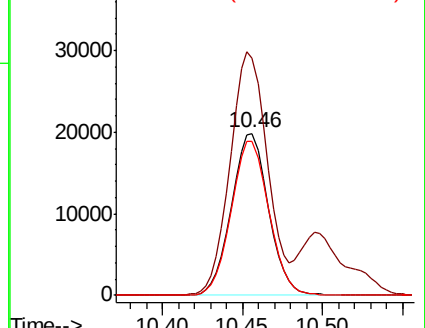
9/13/2018 4:48:53 PM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VU0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 20.73 ug/l

RT: 10.59 min Scan# 2928

Delta R.T. 0.00 min

Lab File: VU026678.D

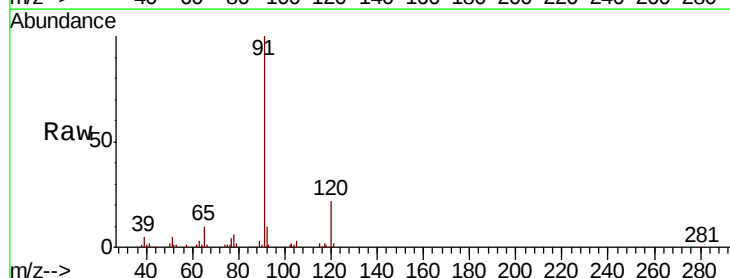
Acq: 11 Sep 2018 11:20

Tgt Ion: 91 Resp: 135284

Ion Ratio Lower Upper

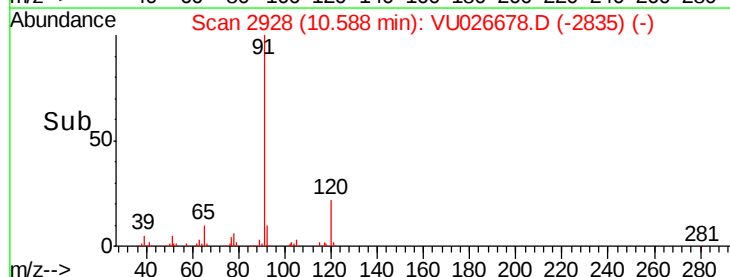
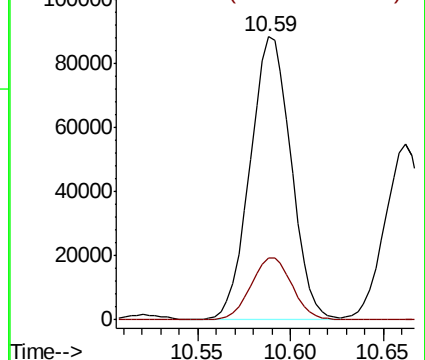
91 100

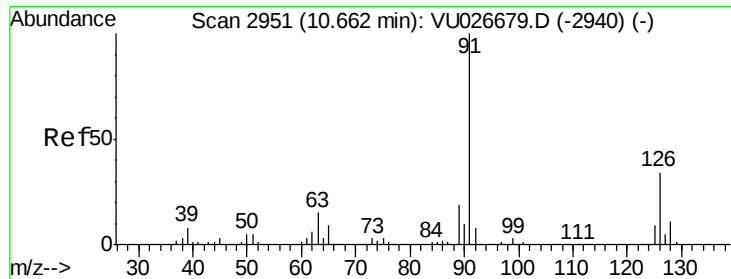
120 22.2 11.4 34.1



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.73 ug/l

RT: 10.66 min Scan# 2951

Delta R.T. 0.00 min

Lab File: VU026678.D

Acq: 11 Sep 2018 11:20

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 83845

Ion Ratio Lower Upper

91 100

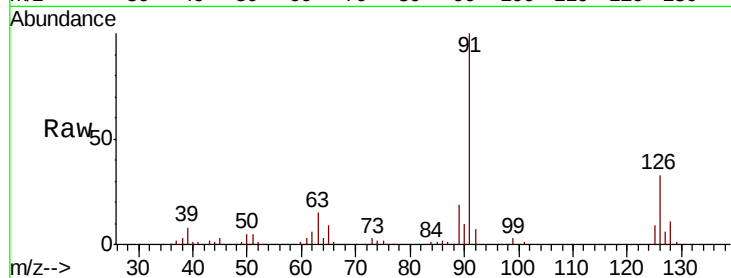
126 33.6 17.3 51.7

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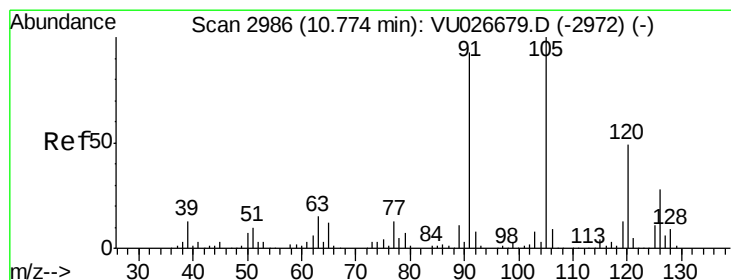
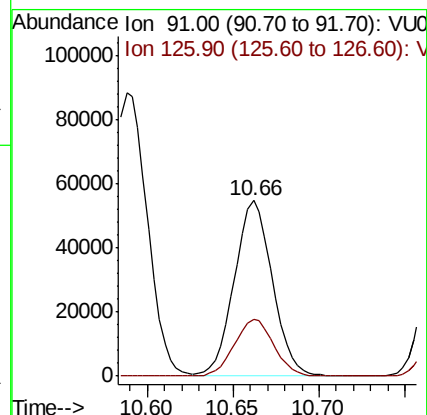
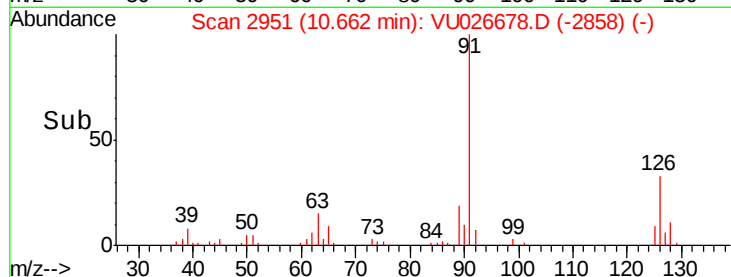
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Abundance Ion 91.00 (90.70 to 91.70): VU026678.D (-2940) (-)

Ion 125.90 (125.60 to 126.60): VU026678.D (-2940) (-)



#80

1,3,5-Trimethylbenzene

Concen: 20.91 ug/l

RT: 10.77 min Scan# 2986

Delta R.T. 0.00 min

Lab File: VU026678.D

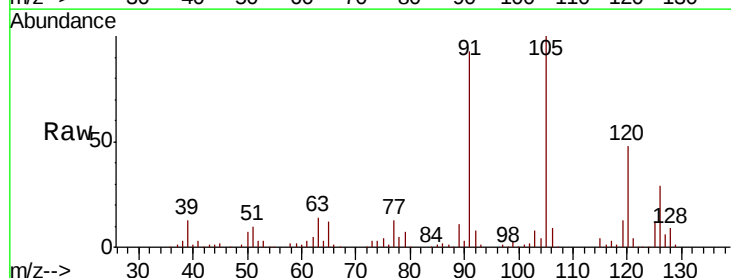
Acq: 11 Sep 2018 11:20

Tgt Ion: 105 Resp: 98594

Ion Ratio Lower Upper

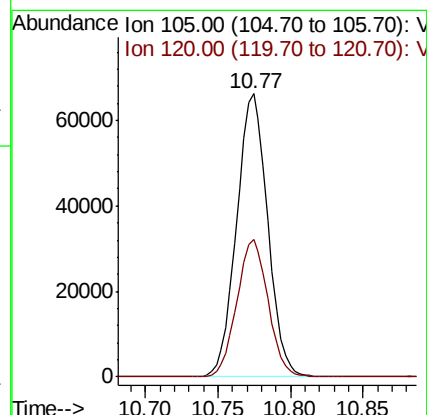
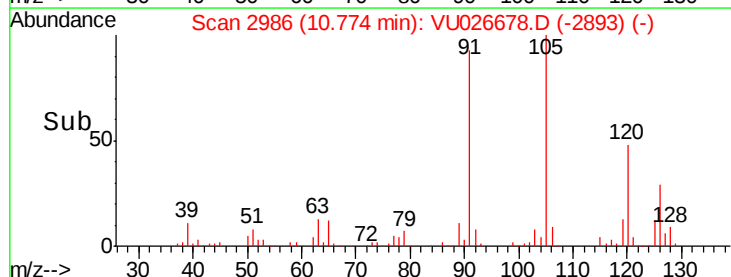
105 100

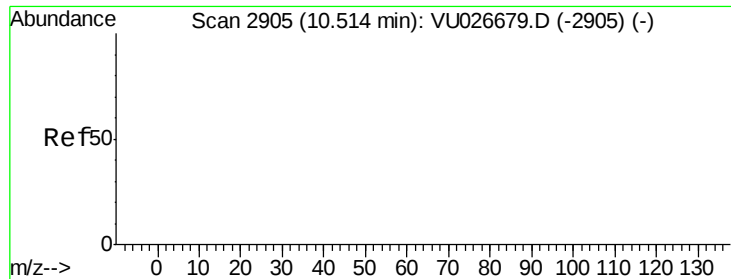
120 48.7 24.6 74.0



Abundance Ion 105.00 (104.70 to 105.70): VU026678.D (-2893) (-)

Ion 120.00 (119.70 to 120.70): VU026678.D (-2893) (-)





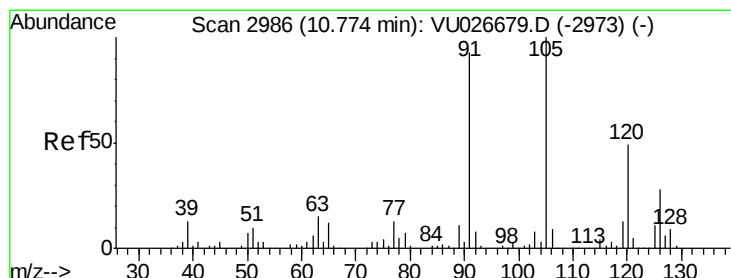
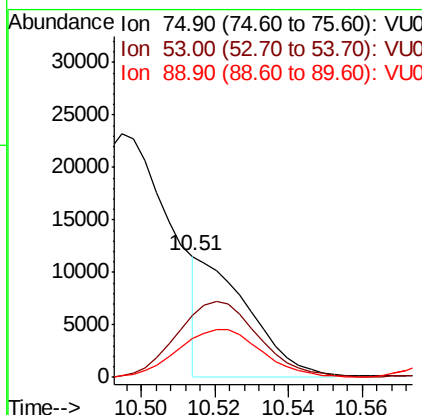
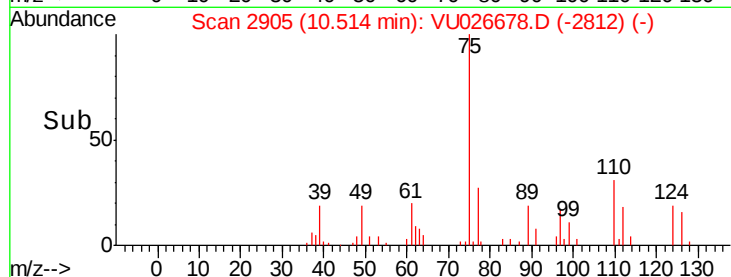
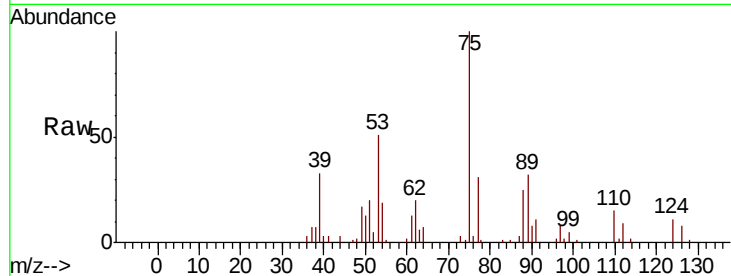
#81
trans-1,4-Dichloro-2-butene
Concen: 11.55 ug/l m
RT: 10.51 min Scan# 2905
Delta R.T. 0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

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

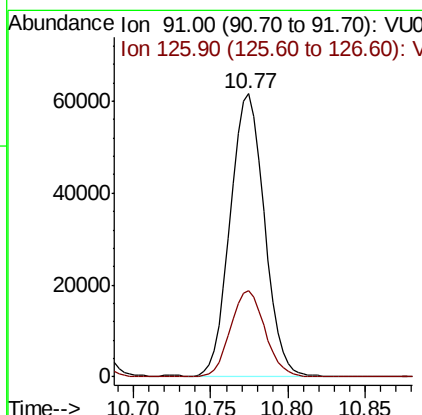
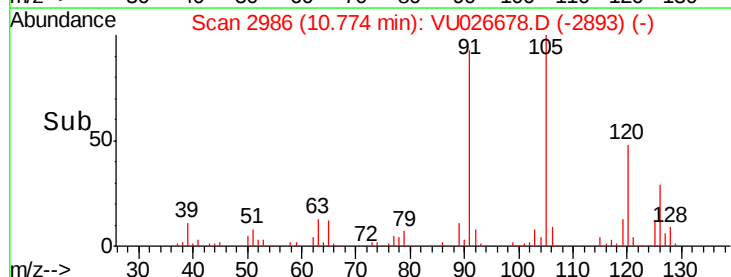
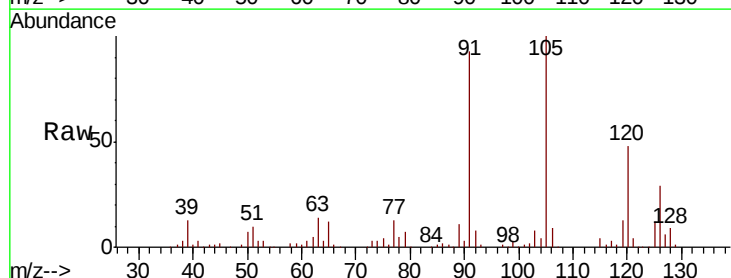
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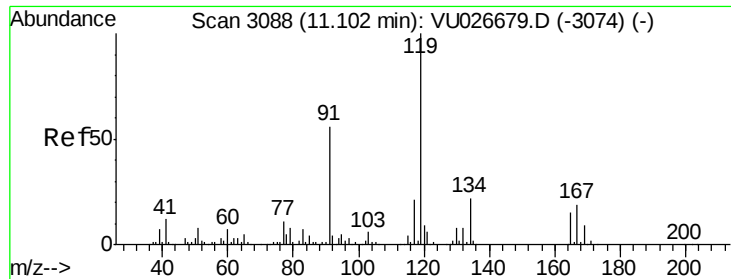
MMDadoda
9/13/2018 4:48:53 PM



#82
4-Chlorotoluene
Concen: 20.75 ug/l
RT: 10.77 min Scan# 2986
Delta R.T. 0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

Tgt Ion	Ratio	Lower	Upper
91	100		
126	30.7	15.2	45.5





#83

tert-Butylbenzene

Concen: 20.60 ug/l

RT: 11.10 min Scan# 3088

Delta R.T. 0.00 min

Lab File: VU026678.D

Acq: 11 Sep 2018 11:20

Instrument :

MSVOA_U

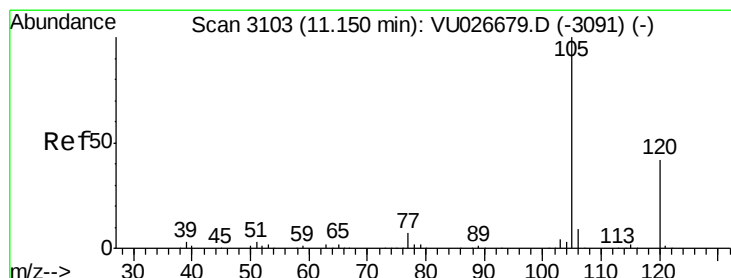
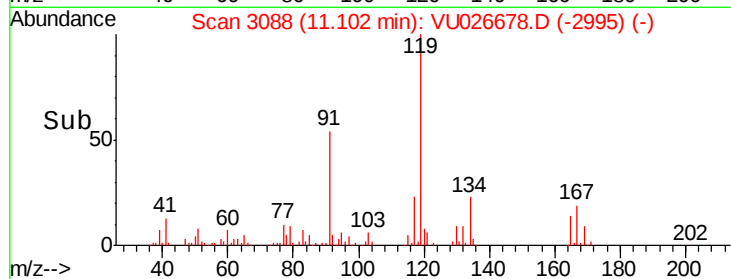
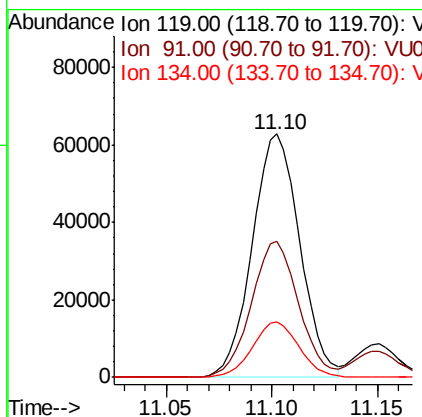
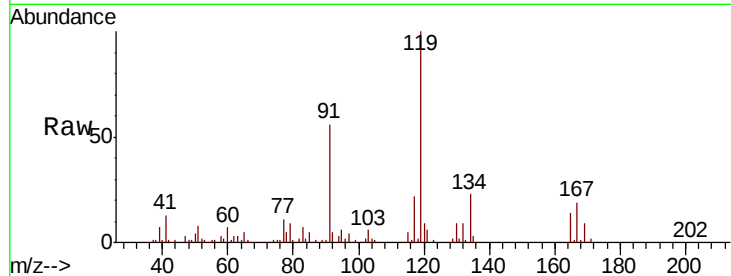
ClientSampleId :

VSTDIC020

Tot Ion:	119	Resp:	98586
Ion Ratio	Lower	Upper	
119	100		
91	55.8	28.3	85.0
134	22.3	11.2	33.5

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 21.19 ug/l

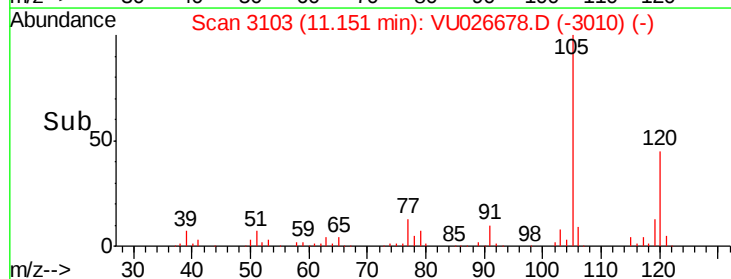
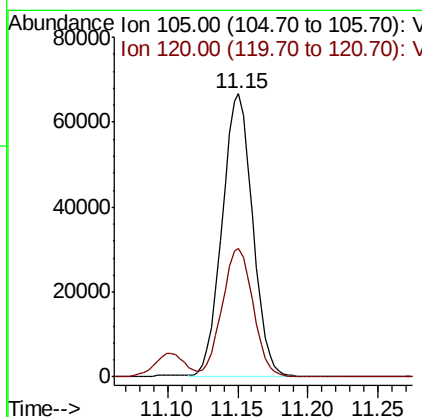
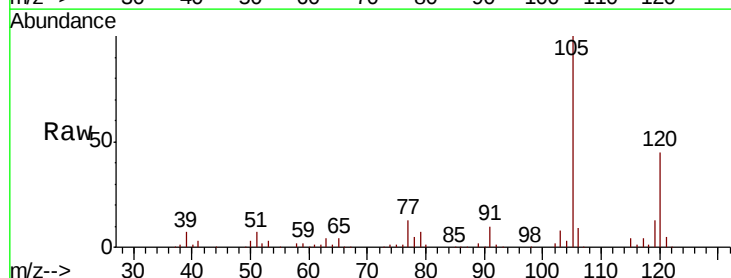
RT: 11.15 min Scan# 3103

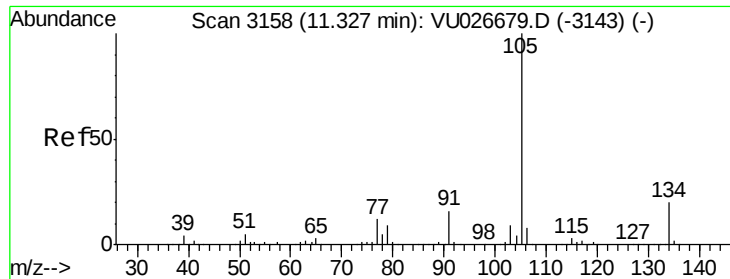
Delta R.T. 0.00 min

Lab File: VU026678.D

Acq: 11 Sep 2018 11:20

Tgt Ion:	105	Resp:	100792
Ion Ratio	Lower	Upper	
105	100		
120	46.1	23.3	69.8





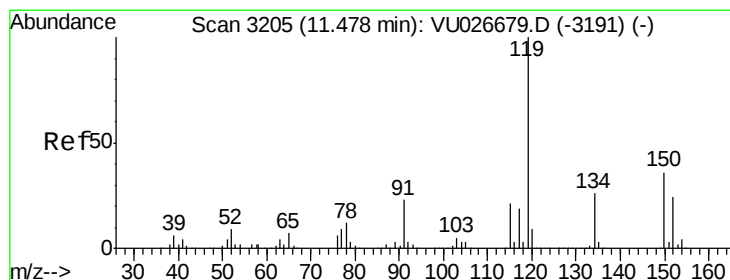
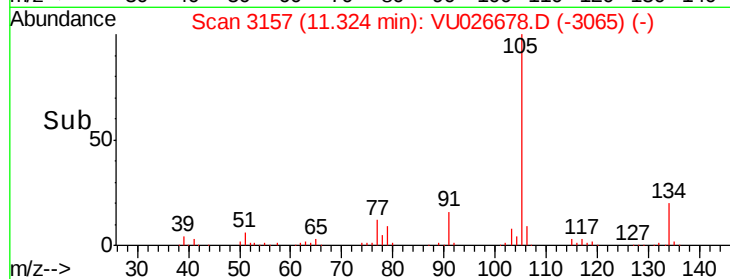
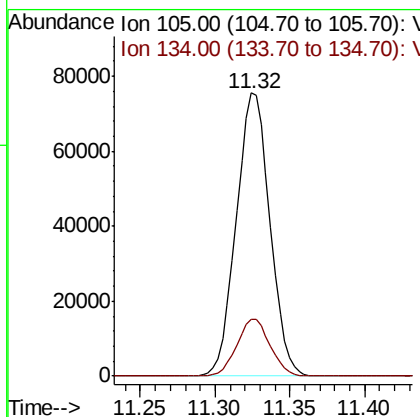
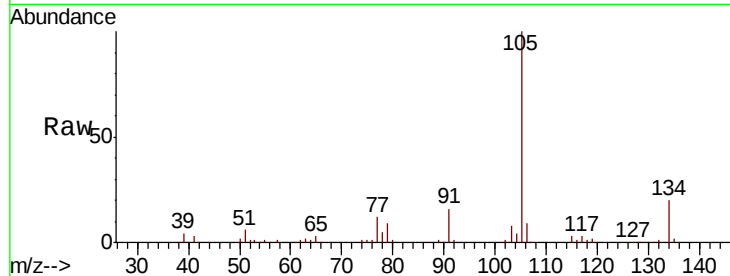
#85
 sec-Butylbenzene
 Concen: 20.80 ug/l
 RT: 11.32 min Scan# 3157
 Delta R.T. -0.00 min
 Lab File: VU026678.D
 Acq: 11 Sep 2018 11:20

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
105	100		
134	19.8	10.1	30.1

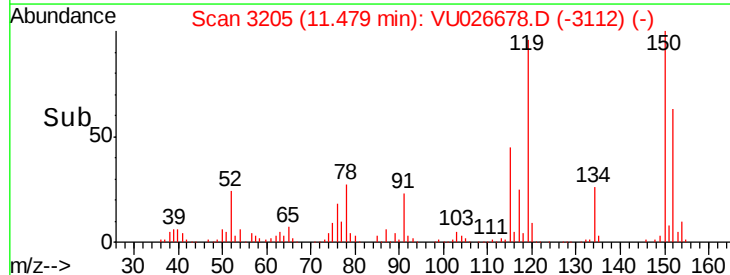
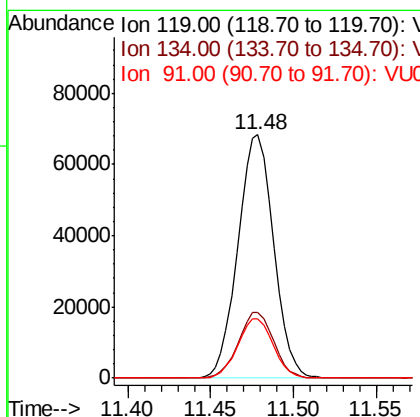
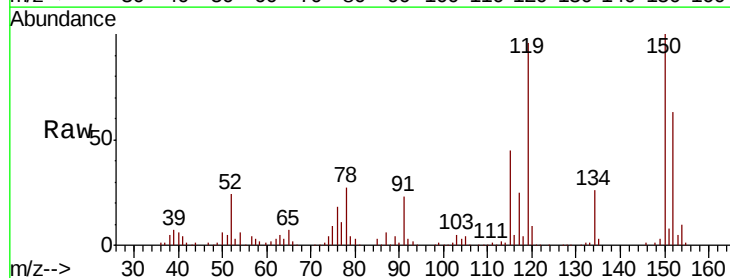
Manual Integrations
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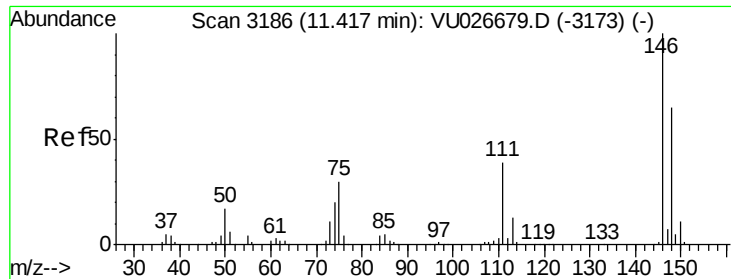
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 9/13/2018 4:48:53 PM



#86
 p-Isopropyltoluene
 Concen: 20.70 ug/l
 RT: 11.48 min Scan# 3205
 Delta R.T. 0.00 min
 Lab File: VU026678.D
 Acq: 11 Sep 2018 11:20

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.7	13.2	39.5
91	24.1	11.6	34.8





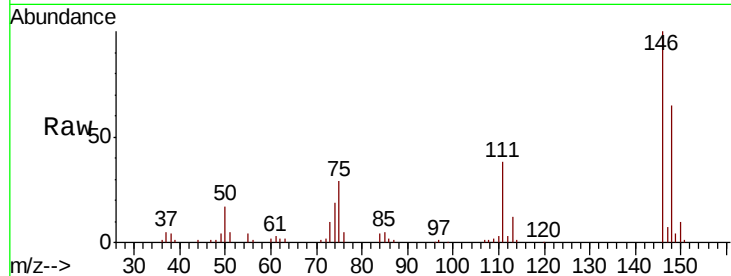
#87
 1,3-Dichlorobenzene
 Concen: 19.28 ug/l
 RT: 11.42 min Scan# 3186
 Delta R.T. 0.00 min
 Lab File: VU026678.D
 Acq: 11 Sep 2018 11:20

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.3	19.7	59.1
148	65.6	32.1	96.3

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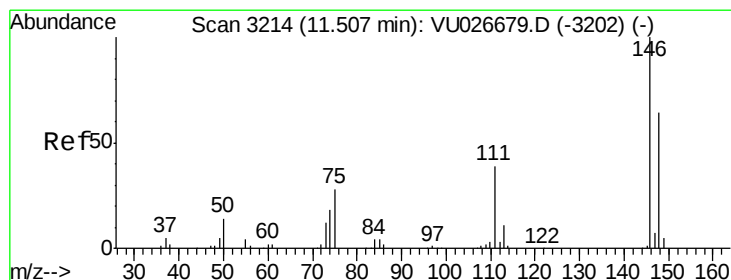
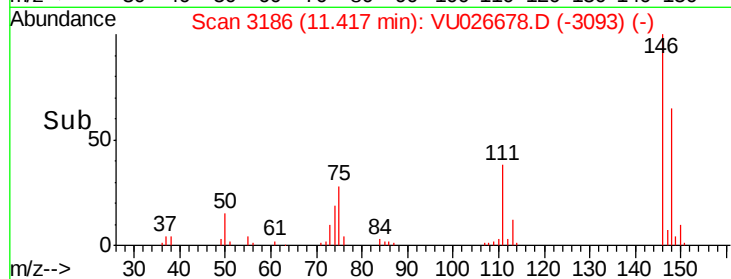
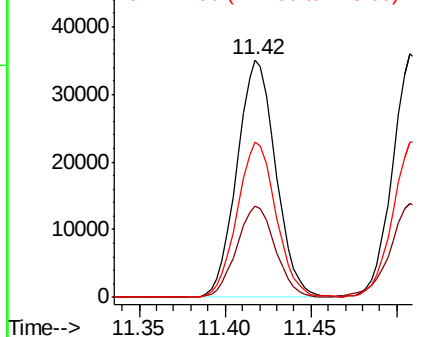


Abundance

Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88
 1,4-Dichlorobenzene
 Concen: 18.92 ug/l
 RT: 11.51 min Scan# 3214
 Delta R.T. 0.00 min
 Lab File: VU026678.D
 Acq: 11 Sep 2018 11:20

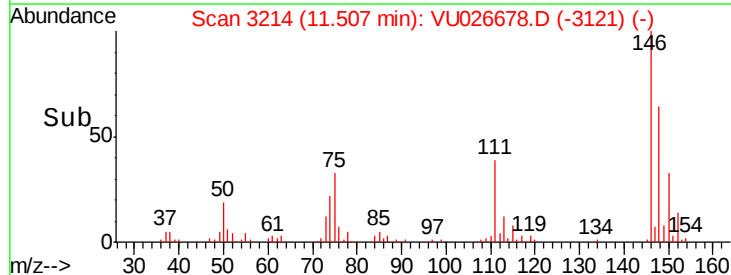
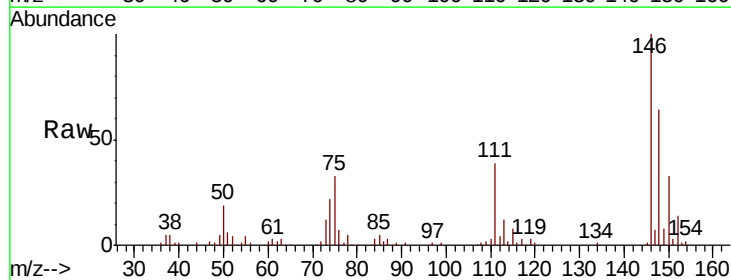
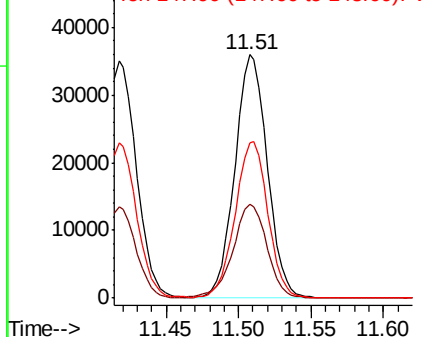
Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.4	19.2	57.6
148	65.0	32.1	96.3

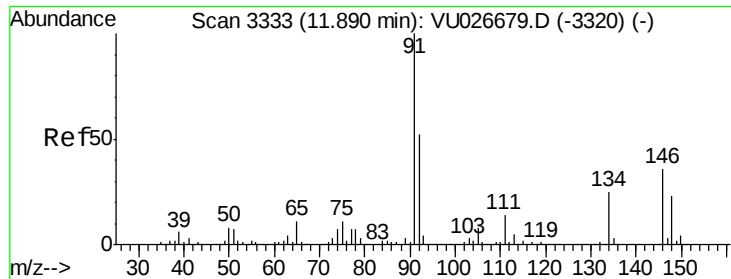
Abundance

Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





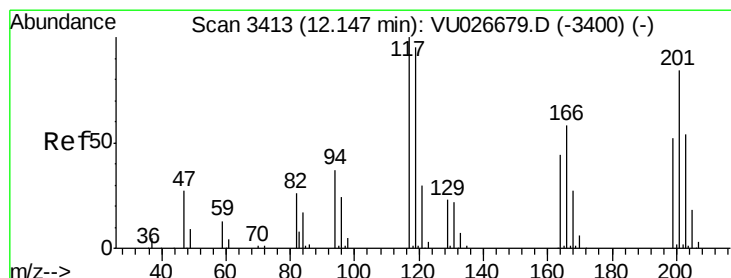
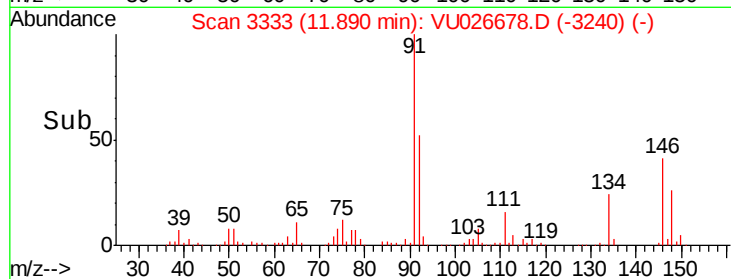
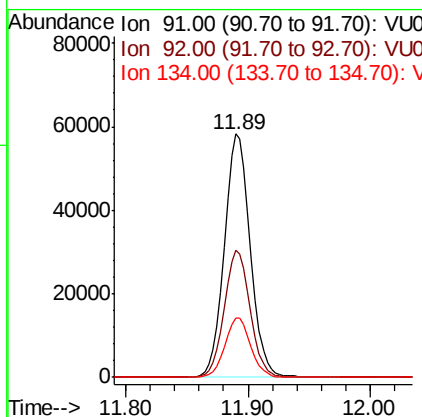
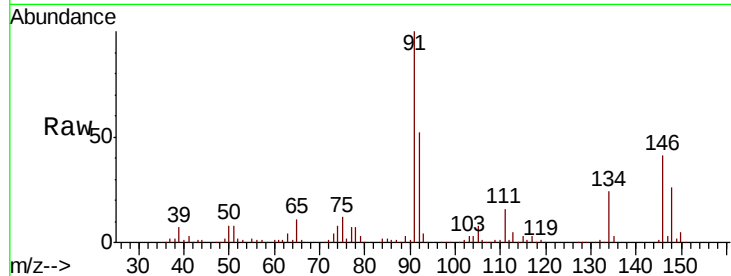
#89
n-Butylbenzene
Concen: 20.05 ug/l
RT: 11.89 min Scan# 3333
Delta R.T. 0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.0	25.8	77.3
134	24.2	12.6	37.8

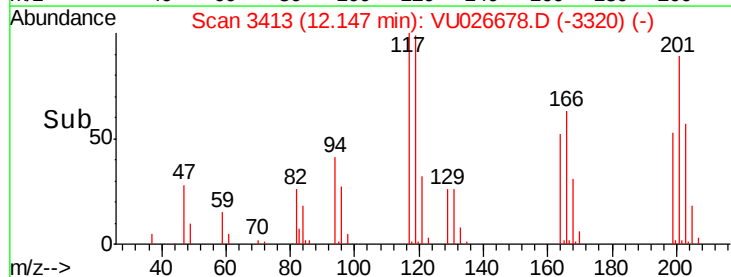
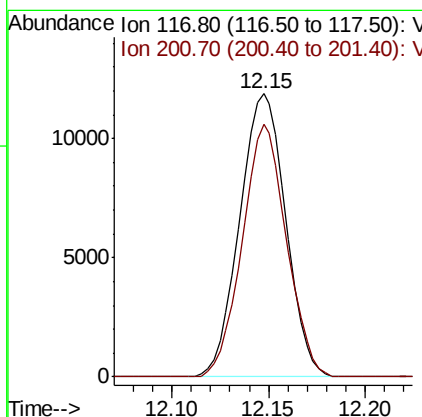
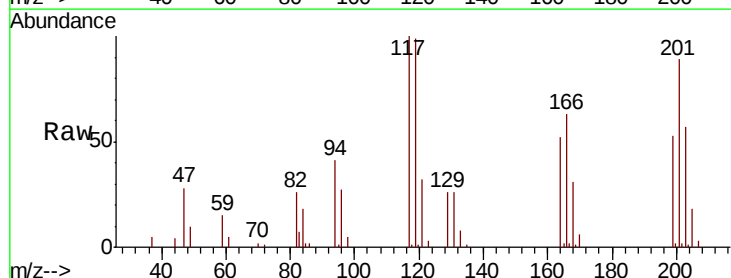
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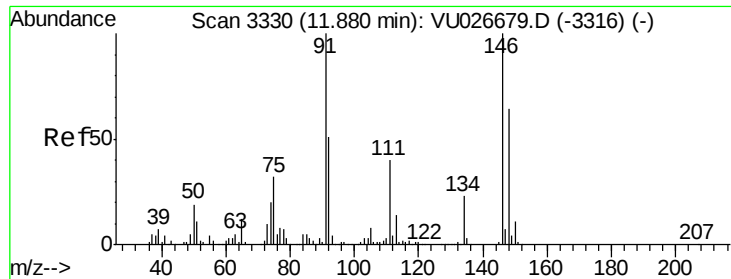
MMDadoda
9/13/2018 4:48:53 PM



#90
Hexachloroethane
Concen: 19.58 ug/l
RT: 12.15 min Scan# 3413
Delta R.T. 0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

Tgt Ion	Ratio	Lower	Upper
117	100		
201	85.6	42.4	127.1





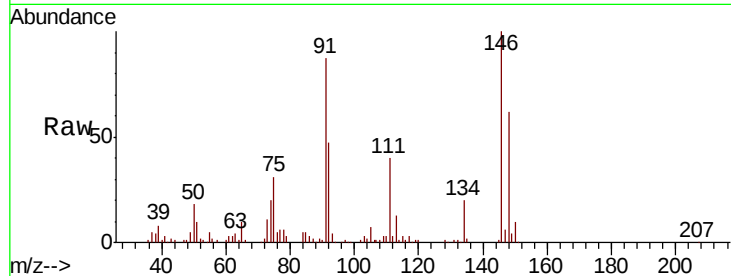
#91
 1,2-Dichlorobenzene
 Concen: 19.85 ug/l
 RT: 11.88 min Scan# 3330
 Delta R.T. 0.00 min
 Lab File: VU026678.D
 Acq: 11 Sep 2018 11:20

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.3	20.3	60.8
148	63.5	32.1	96.3

Manual Integrations
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 9/13/2018 4:48:53 PM

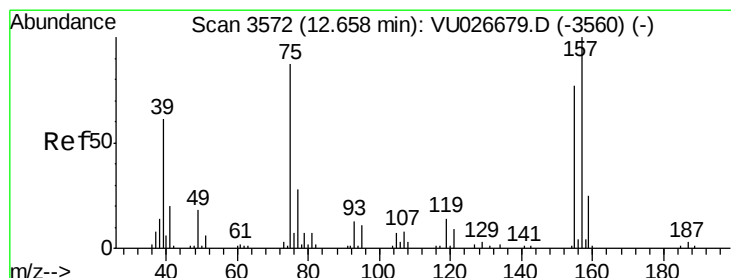
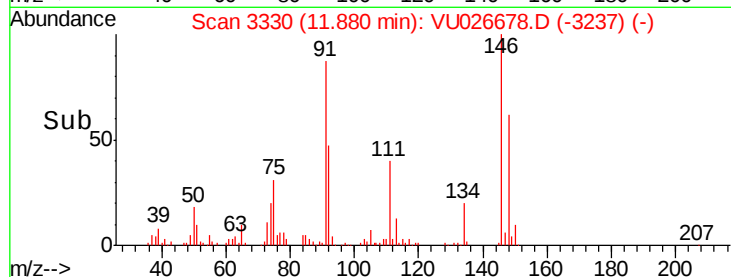
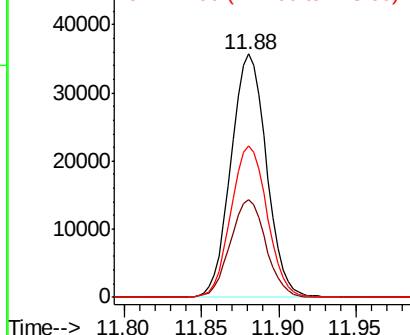


Abundance

Ion 145.90 (145.60 to 146.60): V

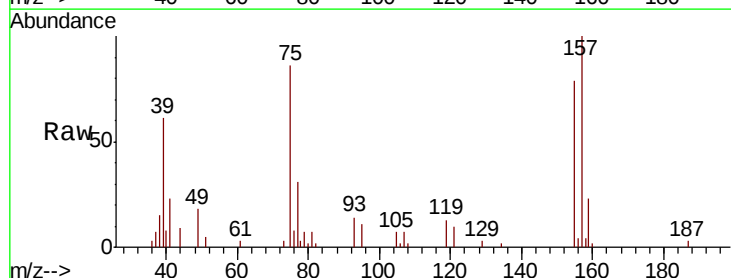
Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.19 ug/l
 RT: 12.66 min Scan# 3572
 Delta R.T. 0.00 min
 Lab File: VU026678.D
 Acq: 11 Sep 2018 11:20

Tgt Ion	Ratio	Lower	Upper
75	100		
155	85.9	44.1	132.4
157	109.5	57.2	171.6

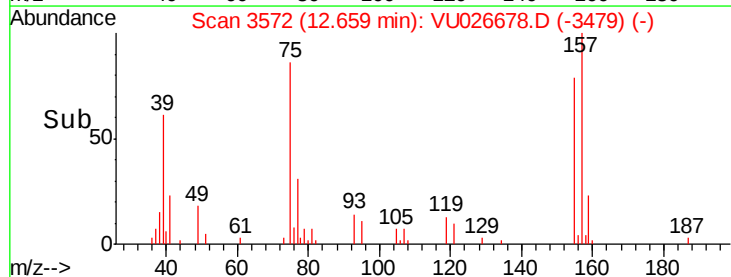
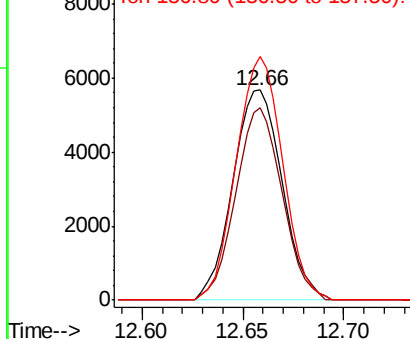


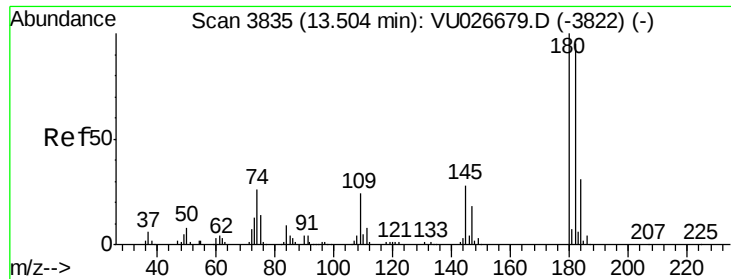
Abundance

Ion 74.90 (74.60 to 75.60): VU0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





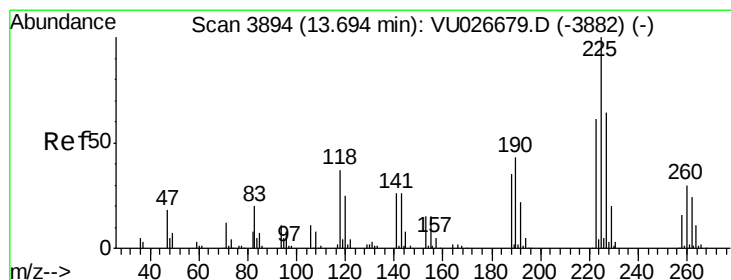
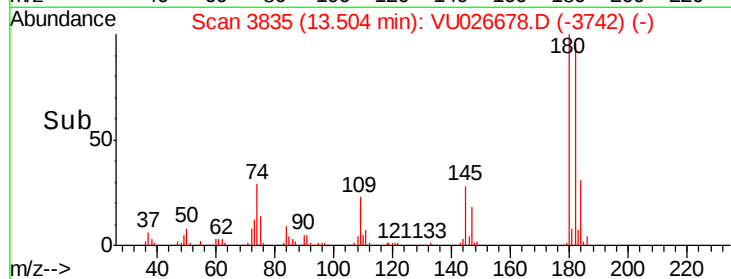
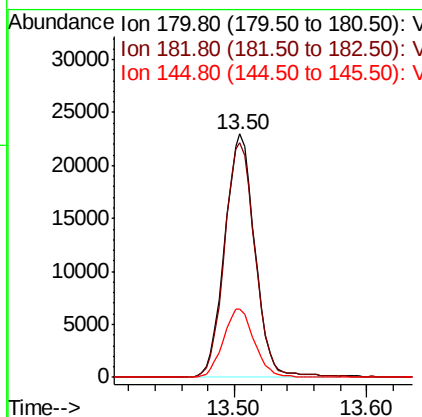
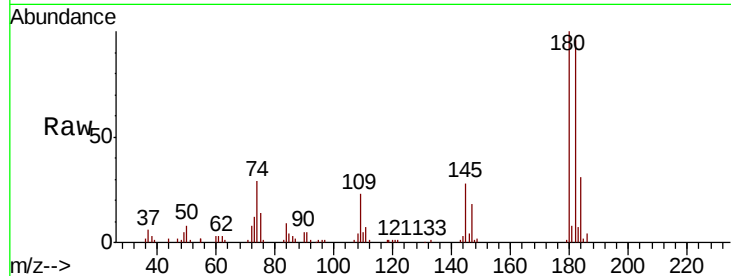
#93
 1,2,4-Trichlorobenzene
 Concen: 19.11 ug/l
 RT: 13.50 min Scan# 3835
 Delta R.T. 0.00 min
 Lab File: VU026678.D
 Acq: 11 Sep 2018 11:20

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
180	100	36315		
182	97.5	47.9	143.7	
145	28.6	14.0	42.0	

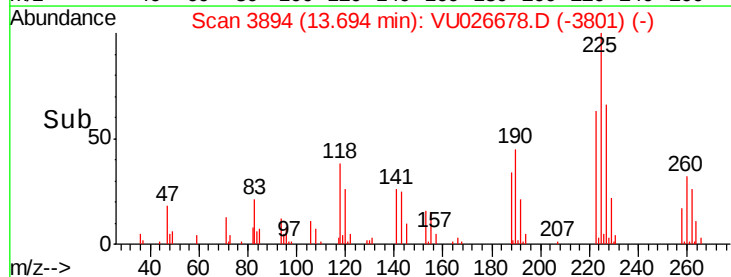
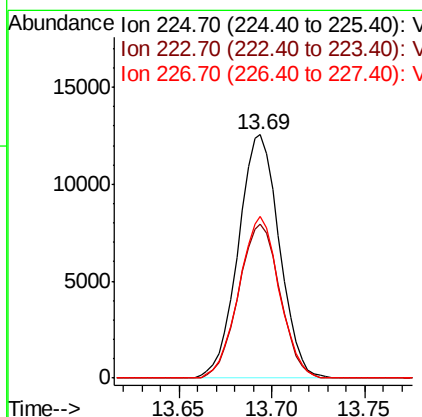
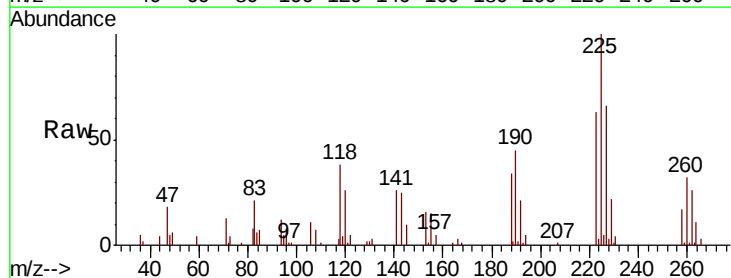
Manual Integrations
 APPROVED

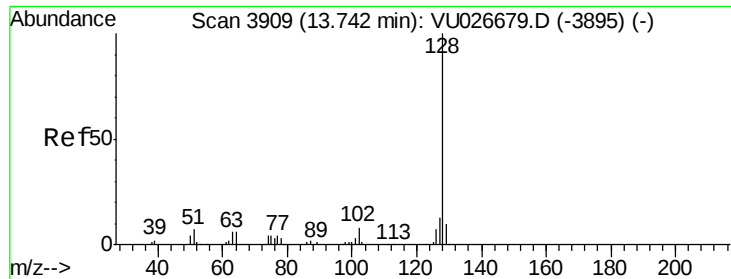
MMDadoda
 9/13/2018 4:48:53 PM



#94
 Hexachlorobutadiene
 Concen: 19.75 ug/l
 RT: 13.69 min Scan# 3894
 Delta R.T. 0.00 min
 Lab File: VU026678.D
 Acq: 11 Sep 2018 11:20

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	19304		
223	63.6	30.6	92.0	
227	65.2	32.1	96.3	





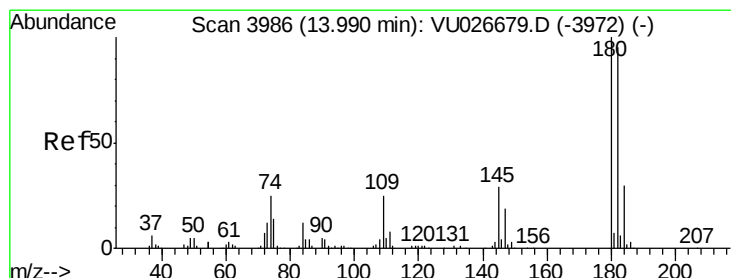
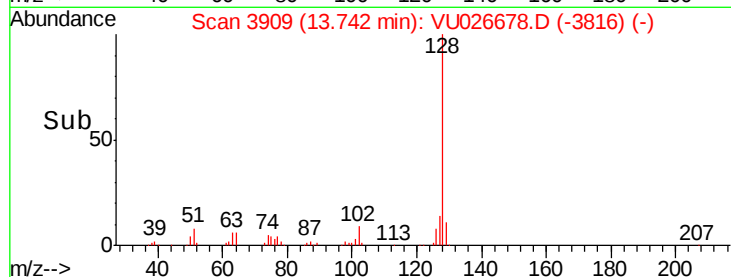
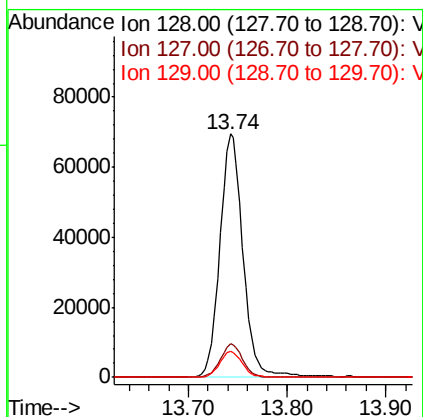
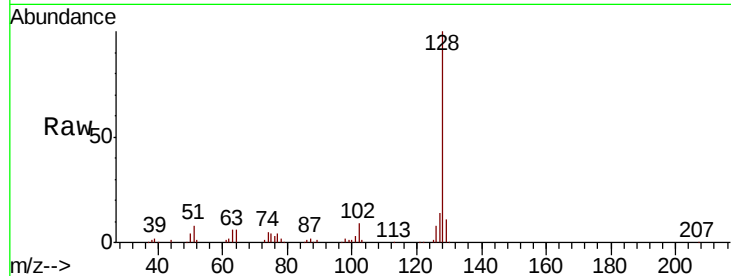
#95
Naphthalene
Concen: 19.99 ug/l
RT: 13.74 min Scan# 3909
Delta R.T. 0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.4	15.6
129	10.6	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
9/13/2018 4:48:53 PM



#96
1,2,3-Trichlorobenzene
Concen: 20.13 ug/l
RT: 13.99 min Scan# 3985
Delta R.T. -0.00 min
Lab File: VU026678.D
Acq: 11 Sep 2018 11:20

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.5	47.9	143.7
145	29.5	14.9	44.9

