

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091218\
 Data File : VU026684.D
 Acq On : 11 Sep 2018 17:24
 Operator : MD/SY
 Sample : VU0912MBS01
 Misc : 5.00µg/10mL/100µL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0912MBS01

Manual Integrations
 APPROVED

MMDadoda
 9/13/2018 4:48:57 PM

Quant Time: Sep 12 05:45:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U091218W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 05:32:45 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	107786	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	167115	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	158816	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	90890	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	86463	52.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.76%	
35) Dibromofluoromethane	4.88	113	70806	51.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.88%	
50) Toluene-d8	7.57	98	258878	51.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.70%	
62) 4-Bromofluorobenzene	10.31	95	90113	49.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.64%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	24079	20.68	ug/l	98
3) Chloromethane	1.33	50	31796	19.54	ug/l	98
4) Vinyl Chloride	1.40	62	34424	20.42	ug/l	99
5) Bromomethane	1.62	94	20420	19.34	ug/l	99
6) Chloroethane	1.69	64	21867	20.38	ug/l	97
7) Trichlorofluoromethane	1.88	101	45597	20.69	ug/l	97
8) Diethyl Ether	2.10	74	19663	20.36	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.29	101	28078	21.45	ug/l	99
10) Methyl Iodide	2.41	142	19062	22.28	ug/l	98
11) Tert butyl alcohol	2.83	59	39028	97.93	ug/l	100
12) 1,1-Dichloroethene	2.28	96	25897	20.93	ug/l	95
13) Acrolein	2.19	56	23669	88.13	ug/l	98
14) Allyl chloride	2.59	41	44503	19.97	ug/l	97
15) Acrylonitrile	2.94	53	90360	105.72	ug/l	99
16) Acetone	2.32	43	104596	112.99	ug/l	100
17) Carbon Disulfide	2.48	76	78150	19.85	ug/l	98
18) Methyl Acetate	2.62	43	43432	21.74	ug/l	100
19) Methyl tert-butyl Ether	3.00	73	88735	20.83	ug/l	99
20) Methylene Chloride	2.70	84	30758	20.48	ug/l	98
21) trans-1,2-Dichloroethene	2.98	96	27497	21.09	ug/l	95
22) Diisopropyl ether	3.58	45	99712	21.44	ug/l	99
23) Vinyl Acetate	3.53	43	421274	106.62	ug/l	100
24) 1,1-Dichloroethane	3.45	63	55143	21.02	ug/l	99
25) 2-Butanone	4.26	43	134876	108.16	ug/l	100
26) 2,2-Dichloropropane	4.23	77	45227	20.97	ug/l	100
27) cis-1,2-Dichloroethene	4.23	96	31528	20.98	ug/l	99
28) Bromochloromethane	4.55	49	26373	21.02	ug/l	98
29) Tetrahydrofuran	4.64	42	80869	107.57	ug/l	100
30) Chloroform	4.67	83	54002	20.93	ug/l	96
31) Cyclohexane	5.00	56	49401	20.51	ug/l	93
32) 1,1,1-Trichloroethane	4.92	97	46287	21.67	ug/l	97
36) 1,1-Dichloropropene	5.14	75	38473	20.50	ug/l	99
37) Ethyl Acetate	4.38	43	46559	20.64	ug/l	99
38) Carbon Tetrachloride	5.13	117	40004	20.18	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.42	83	45544	20.44	ug/l	100
40) Benzene	5.39	78	120540	20.69	ug/l	99
41) Methacrylonitrile	4.54	41	25821	20.75	ug/l	99
42) 1,2-Dichloroethane	5.40	62	43135	20.76	ug/l	98
43) Isopropyl Acetate	5.55	43	72747	21.17	ug/l	98
44) Trichloroethene	6.19	130	29839	20.69	ug/l	97
45) 1,2-Dichloropropane	6.43	63	32808	20.71	ug/l	96
46) Dibromomethane	6.56	93	21344	20.88	ug/l	97
47) Bromodichloromethane	6.76	83	41295	20.52	ug/l	100
48) Methyl methacrylate	6.62	41	36250	20.41	ug/l	98
49) 1,4-Dioxane	6.61	88	17318	420.18	ug/l	96
51) 4-Methyl-2-Pentanone	7.46	43	239780	104.34	ug/l	100
52) Toluene	7.64	92	73022	21.04	ug/l	99
53) t-1,3-Dichloropropene	7.88	75	45872	20.55	ug/l	99
54) cis-1,3-Dichloropropene	7.27	75	49710	20.73	ug/l	100
55) 1,1,2-Trichloroethane	8.07	97	30471	20.49	ug/l	100
56) Ethyl methacrylate	8.02	69	45757	20.07	ug/l	99
57) 1,3-Dichloropropane	8.24	76	52399	20.67	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.13	63	130560	114.46	ug/l	99
59) 2-Hexanone	8.36	43	188001	103.95	ug/l	99
60) Dibromochloromethane	8.48	129	32938	20.45	ug/l	99
61) 1,2-Dibromoethane	8.59	107	32139	19.92	ug/l	100
64) Tetrachloroethene	8.23	164	26317	20.82	ug/l	99
65) Chlorobenzene	9.12	112	80751	20.47	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.21	131	30623	21.09	ug/l	97
67) Ethyl Benzene	9.25	91	134988	20.77	ug/l	100
68) m/p-Xylenes	9.38	106	104025	42.07	ug/l	99
69) o-Xylene	9.78	106	50873	20.02	ug/l	100
70) Styrene	9.79	104	82554	19.72	ug/l	99
71) Bromoform	9.96	173	26055	20.64	ug/l #	100
73) Isopropylbenzene	10.17	105	134884	21.78	ug/l	100
74) N-amyl acetate	10.02	43	62979	21.54	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.46	83	51881	20.55	ug/l	99
76) 1,2,3-Trichloropropane	10.50	75	44515m	21.86	ug/l	
77) Bromobenzene	10.46	156	35867	21.31	ug/l	98
78) n-propylbenzene	10.59	91	157955	21.93	ug/l	100
79) 2-Chlorotoluene	10.66	91	96316	21.57	ug/l	100
80) 1,3,5-Trimethylbenzene	10.77	105	114047	21.91	ug/l	99
81) trans-1,4-Dichloro-2-buten	10.51	75	17218m	30.39	ug/l	
82) 4-Chlorotoluene	10.77	91	108005	21.53	ug/l	100
83) tert-Butylbenzene	11.10	119	114653	21.70	ug/l	99
84) 1,2,4-Trimethylbenzene	11.15	105	115715	22.04	ug/l	100
85) sec-Butylbenzene	11.32	105	137506	21.92	ug/l	100
86) p-Isopropyltoluene	11.48	119	119886	20.51	ug/l	99
87) 1,3-Dichlorobenzene	11.42	146	64205	20.45	ug/l	99
88) 1,4-Dichlorobenzene	11.51	146	64621	19.81	ug/l	99
89) n-Butylbenzene	11.89	91	103374	20.00	ug/l	100
90) Hexachloroethane	12.15	117	22902	20.69	ug/l	100
91) 1,2-Dichlorobenzene	11.88	146	64094	20.29	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.66	75	11142	22.02	ug/l	99

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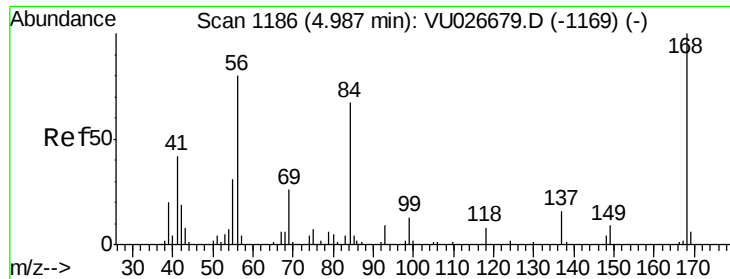
Manual Integrations
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9/13/2018 4:48:57 PM

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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)
93) 1,2,4-Trichlorobenzene	13.50	180	43231	20.61	ug/l	99
94) Hexachlorobutadiene	13.69	225	22565	20.91	ug/l	99
95) Naphthalene	13.75	128	138327	20.22	ug/l	100
96) 1,2,3-Trichlorobenzene	13.99	180	46359	21.16	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: VU026684.D

Acq: 11 Sep 2018 17:24

Instrument :

MSVOA_U

ClientSampleId :

VU0912MBS01

Tot Ion:168 Resp: 107786

Ion Ratio Lower Upper

168 100

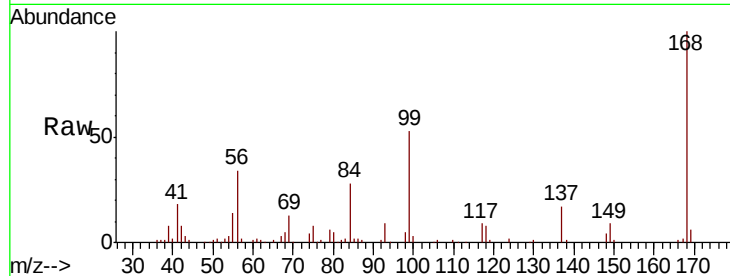
99 52.9 42.0 63.0

Manual Integrations

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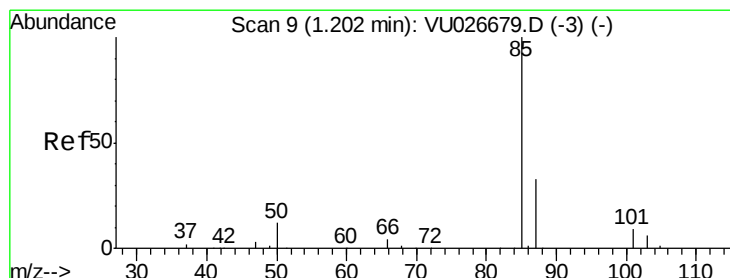
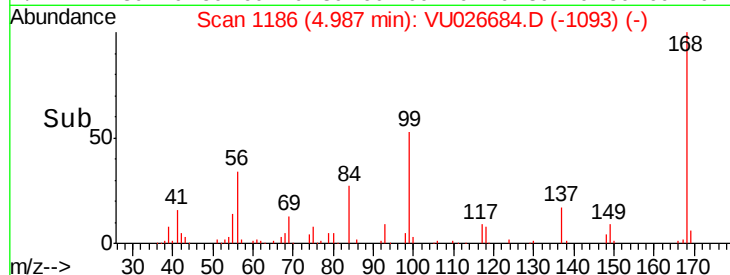
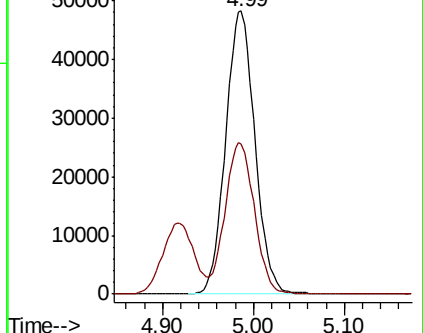
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Abundance Ion 167.90 (167.60 to 168.60): VU026679.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU026679.D (-1169) (-)



#2

Dichlorodifluoromethane

Concen: 20.68 ug/l

RT: 1.21 min Scan# 10

Delta R.T. 0.00 min

Lab File: VU026684.D

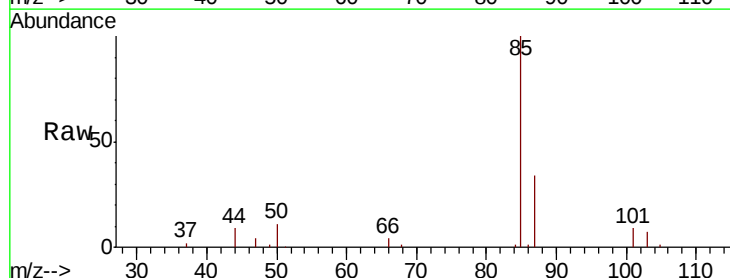
Acq: 11 Sep 2018 17:24

Tgt Ion: 85 Resp: 24079

Ion Ratio Lower Upper

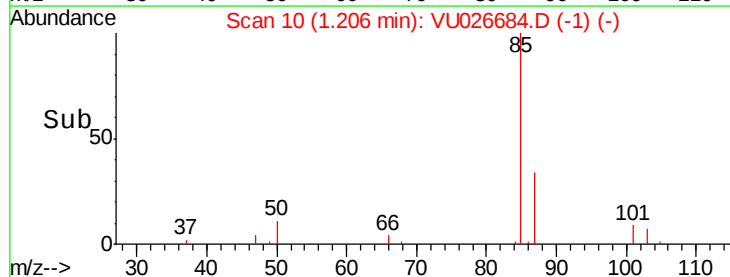
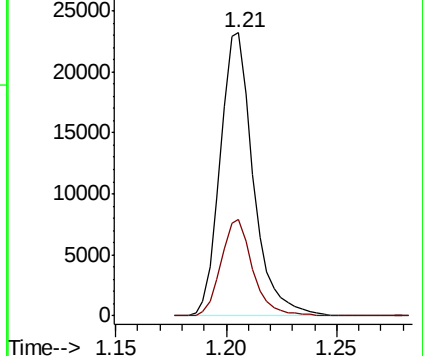
85 100

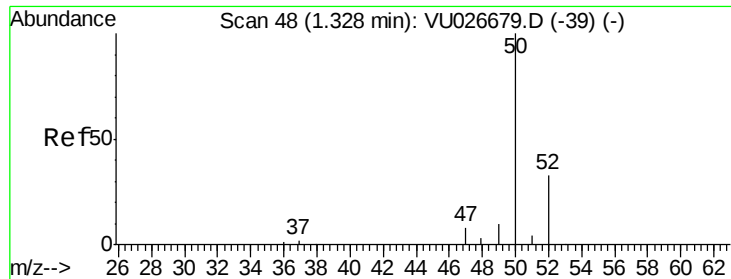
87 34.0 16.6 49.7



Abundance Ion 84.90 (84.60 to 85.60): VU026679.D (-3) (-)

Ion 86.90 (86.60 to 87.60): VU026679.D (-3) (-)





#3

Chloromethane

Concen: 19.54 ug/l

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU026684.D

Acq: 11 Sep 2018 17:24

Instrument :

MSVOA_U

ClientSampleId :

VU0912MBS01

Tot Ion: 50 Resp: 31796

Ion Ratio Lower Upper

50 100

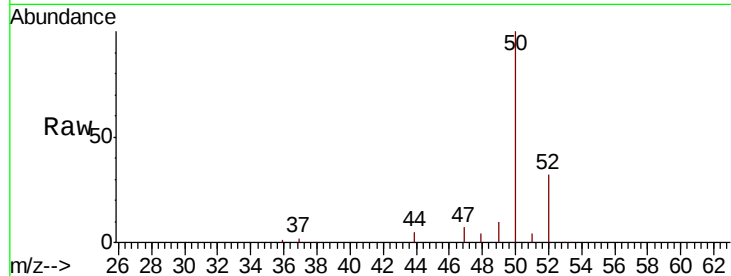
52 32.0 26.3 39.5

Manual Integrations

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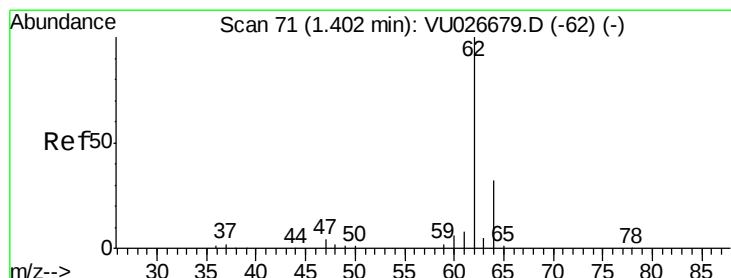
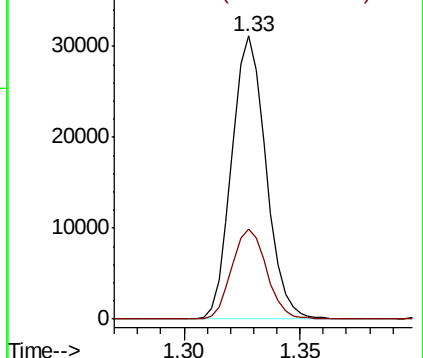
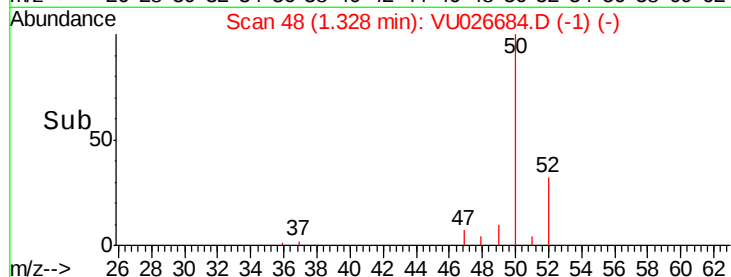
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Abundance Ion 49.90 (49.60 to 50.60): VU0

Ion 51.90 (51.60 to 52.60): VU0



#4

Vinyl Chloride

Concen: 20.42 ug/l

RT: 1.40 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU026684.D

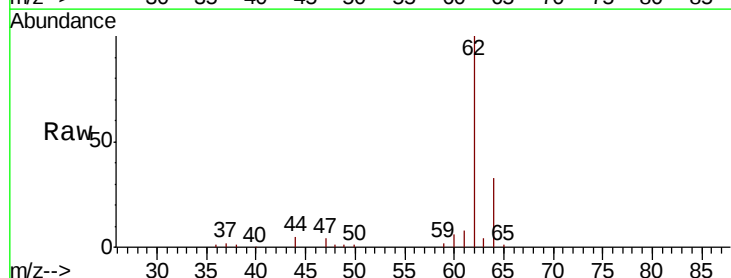
Acq: 11 Sep 2018 17:24

Tgt Ion: 62 Resp: 34424

Ion Ratio Lower Upper

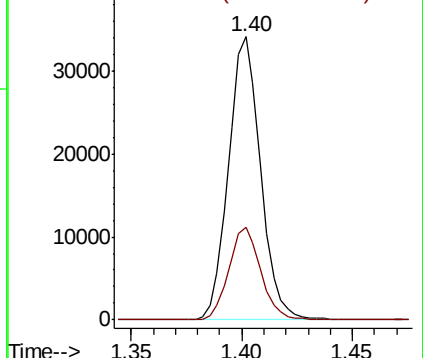
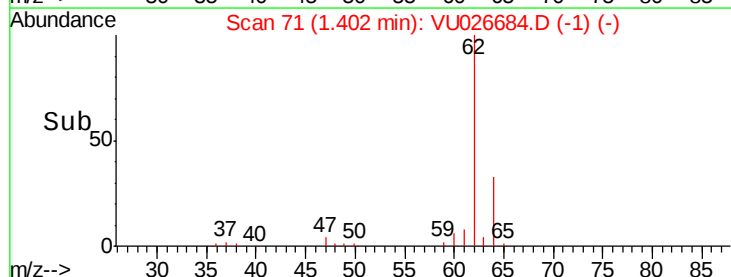
62 100

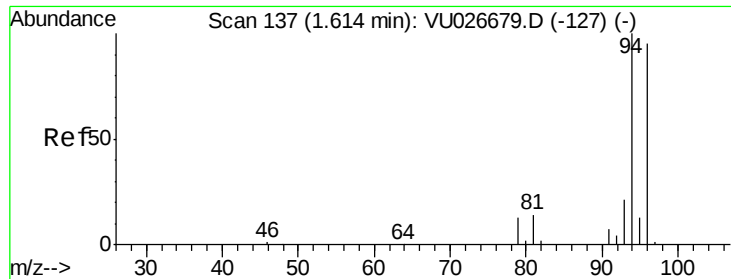
64 32.7 25.6 38.4



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0





#5

Bromomethane

Concen: 19.34 ug/l

RT: 1.62 min Scan# 139

Delta R.T. 0.01 min

Lab File: VU026684.D

Acq: 11 Sep 2018 17:24

Instrument :

MSVOA_U

ClientSampleId :

VU0912MBS01

Tot Ion: 94 Resp: 20420

Ion Ratio Lower Upper

94 100

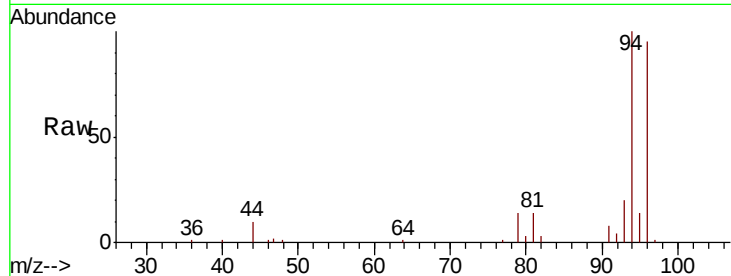
96 95.2 75.8 113.6

Manual Integrations

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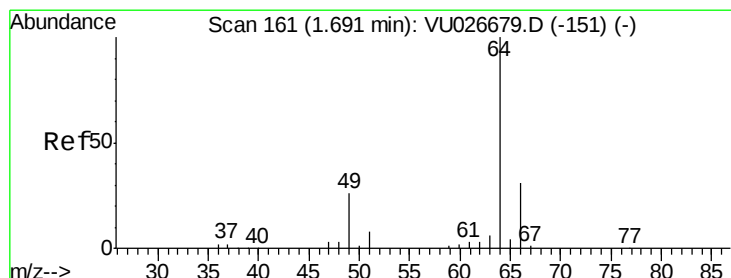
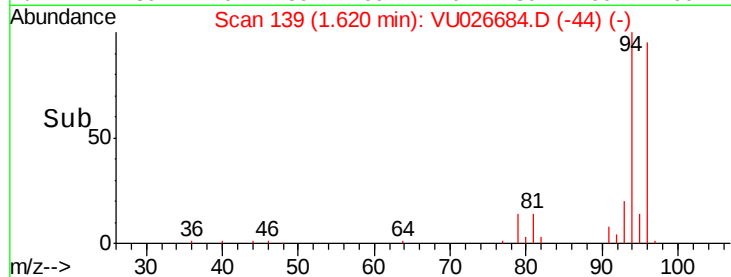
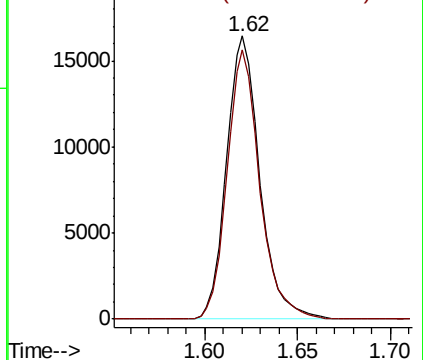
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Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: 20.38 ug/l

RT: 1.69 min Scan# 162

Delta R.T. 0.00 min

Lab File: VU026684.D

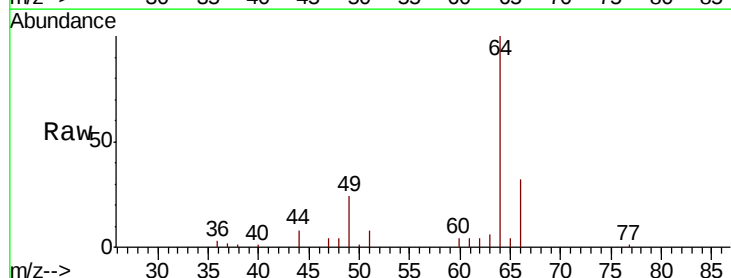
Acq: 11 Sep 2018 17:24

Tgt Ion: 64 Resp: 21867

Ion Ratio Lower Upper

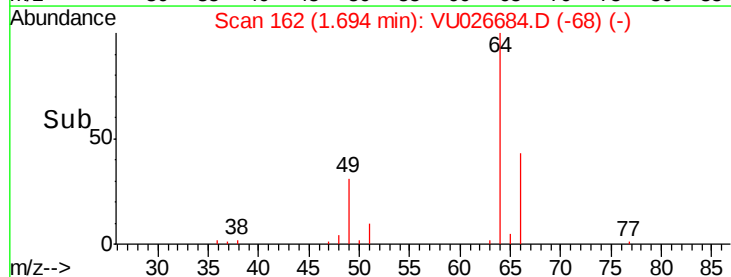
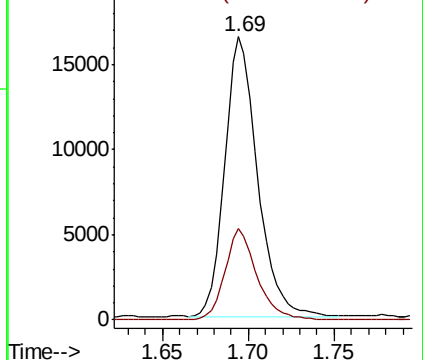
64 100

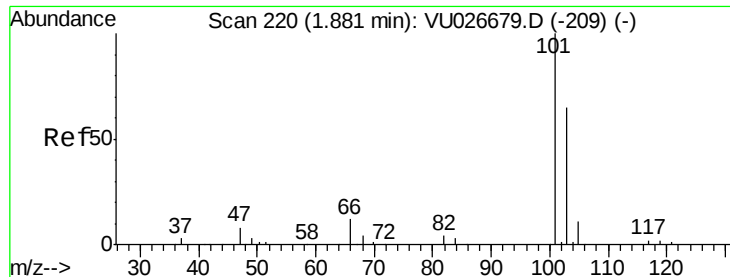
66 32.5 24.7 37.1



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0





#7

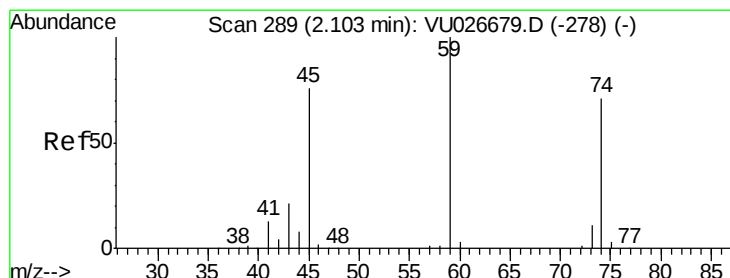
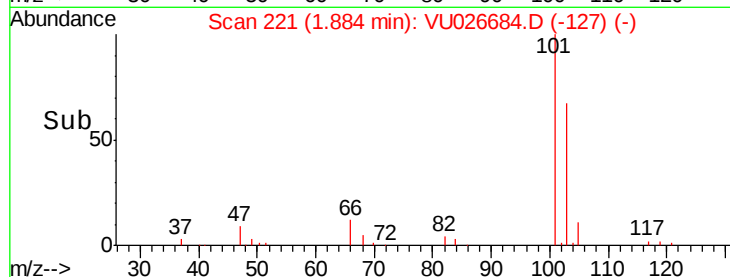
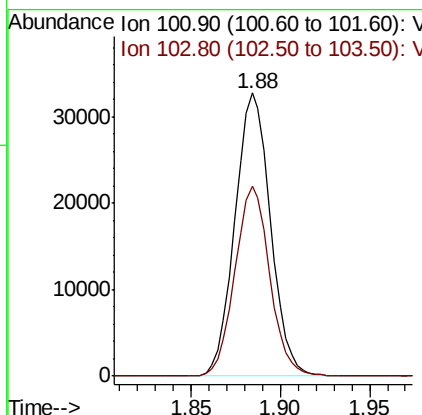
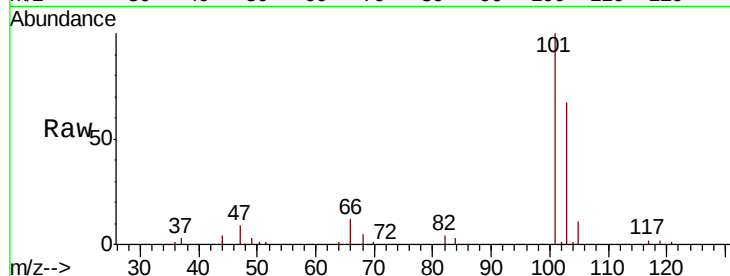
Trichlorofluoromethane
 Concen: 20.69 ug/l
 RT: 1.88 min Scan# 221
 Delta R.T. 0.00 min
 Lab File: VU026684.D
 Acq: 11 Sep 2018 17:24

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0912MBS01

Tot Ion:101 Resp: 45597
 Ion Ratio Lower Upper
 101 100
 103 67.0 51.7 77.5

Manual Integrations
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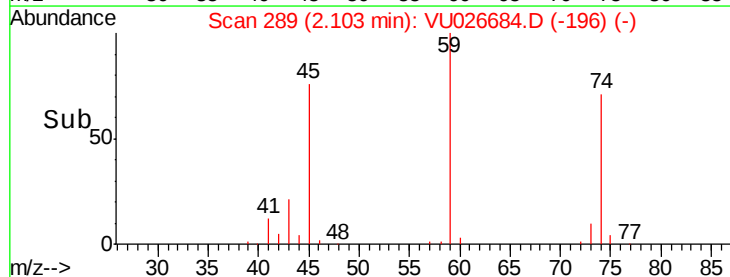
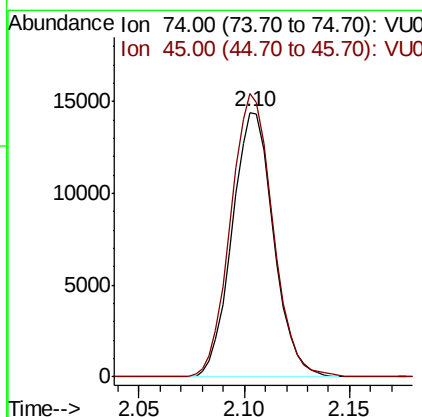
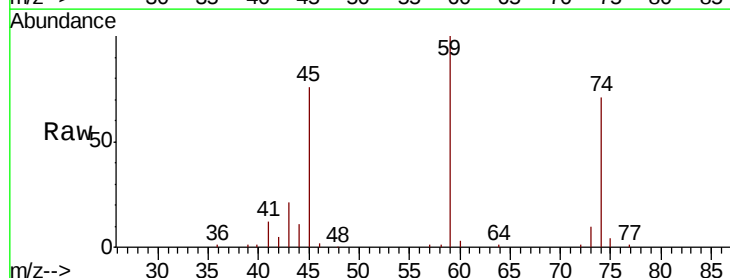
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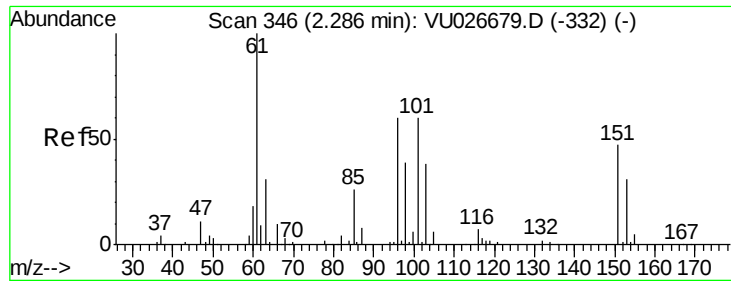


#8

Diethyl Ether
 Concen: 20.36 ug/l
 RT: 2.10 min Scan# 289
 Delta R.T. 0.00 min
 Lab File: VU026684.D
 Acq: 11 Sep 2018 17:24

Tgt Ion: 74 Resp: 19663
 Ion Ratio Lower Upper
 74 100
 45 109.0 53.6 160.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.45 ug/l

RT: 2.29 min Scan# 346

Delta R.T. 0.00 min

Lab File: VU026684.D

Acq: 11 Sep 2018 17:24

Instrument :

MSVOA_U

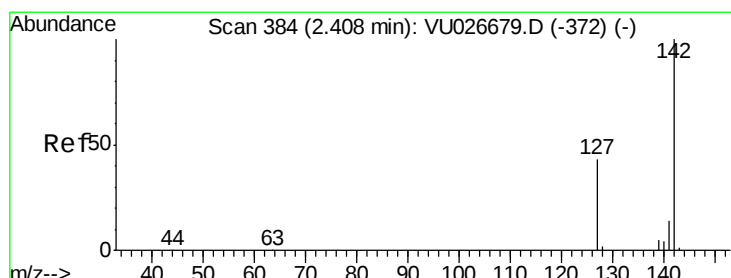
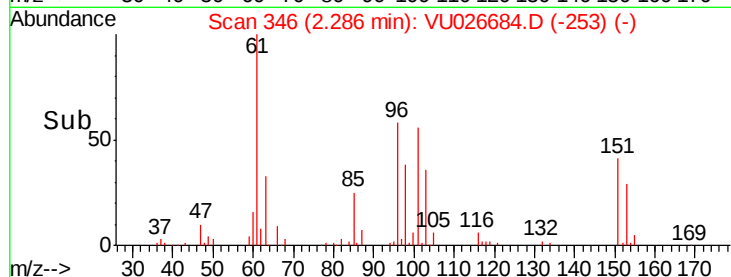
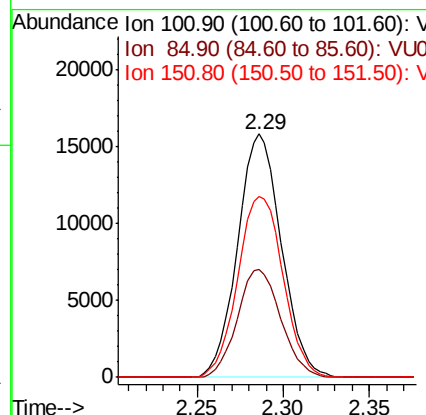
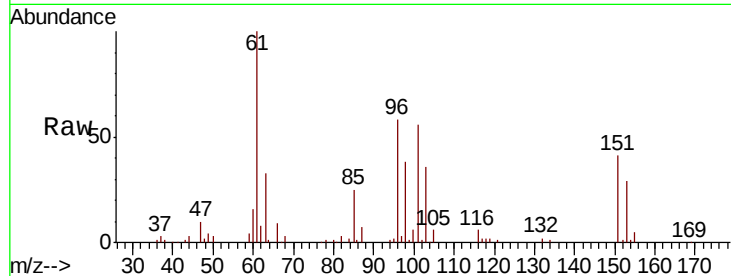
ClientSampleId :

VU0912MBS01

Tot Ion:	101	Resp:	28078
Ion Ratio	Lower	Upper	
101	100		
85	43.8	34.6	52.0
151	76.9	62.7	94.1

Manual Integrations
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#10

Methyl Iodide

Concen: 22.28 ug/l

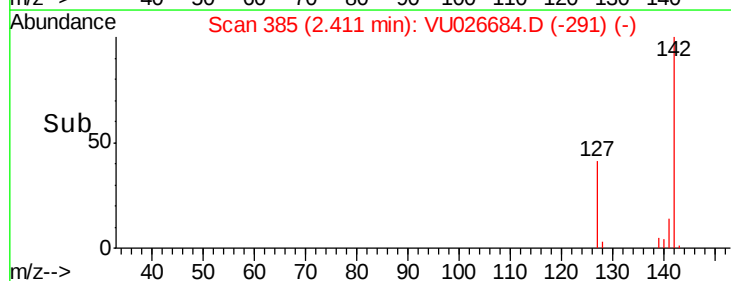
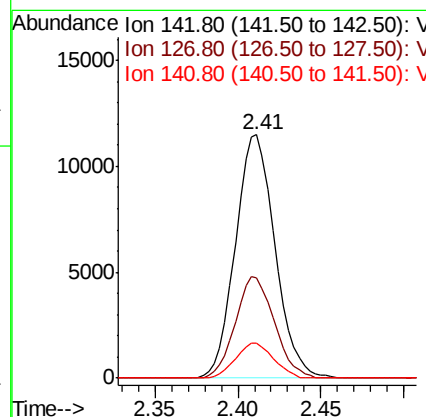
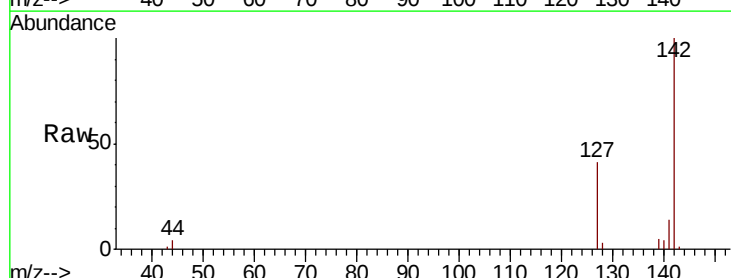
RT: 2.41 min Scan# 385

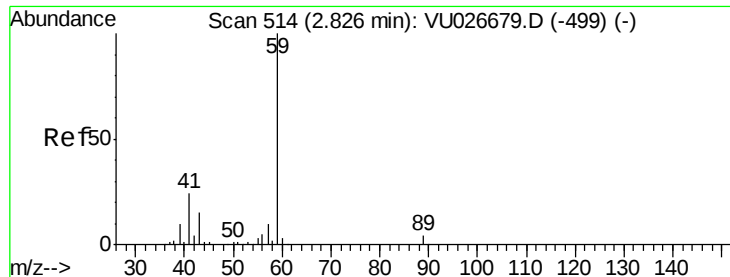
Delta R.T. 0.00 min

Lab File: VU026684.D

Acq: 11 Sep 2018 17:24

Tgt Ion:	142	Resp:	19062
Ion Ratio	Lower	Upper	
142	100		
127	40.9	34.1	51.1
141	13.8	11.2	16.8





#11

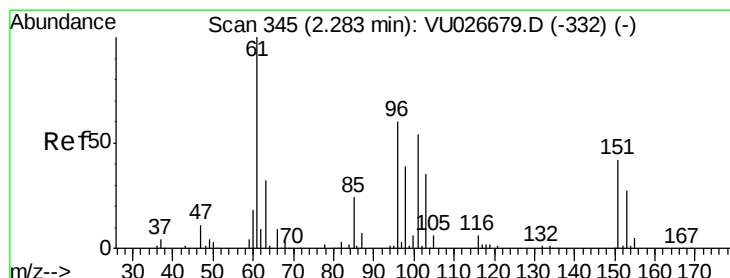
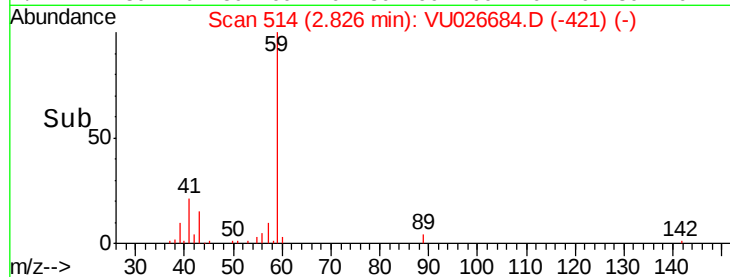
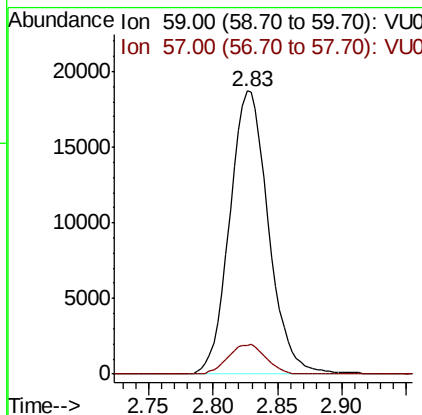
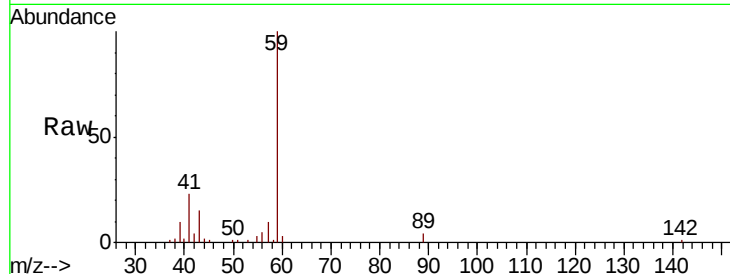
Tert butyl alcohol
Concen: 97.93 ug/l
RT: 2.83 min Scan# 514
Delta R.T. 0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Instrument :
MSVOA_U
ClientSampleId :
VU0912MBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.0	12.0

Manual Integrations
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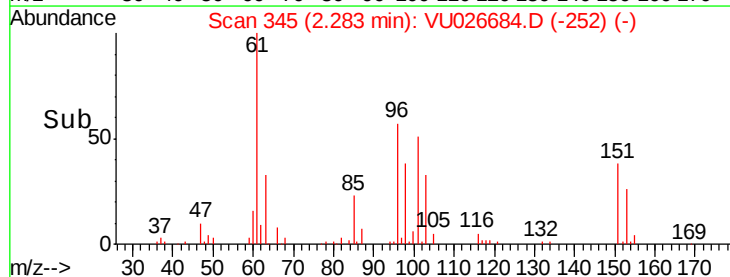
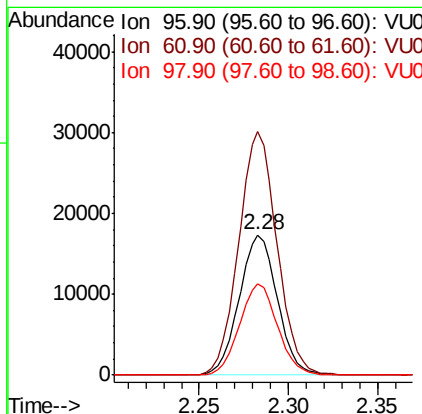
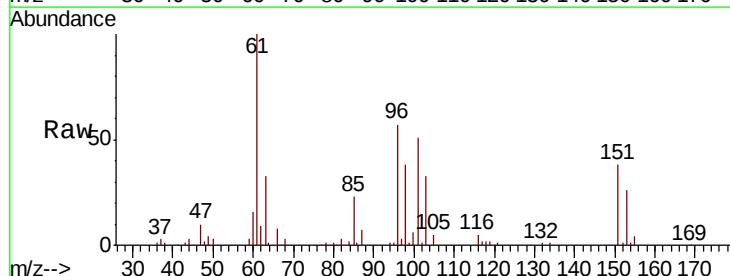
MMDadoda
9/13/2018 4:48:57 PM

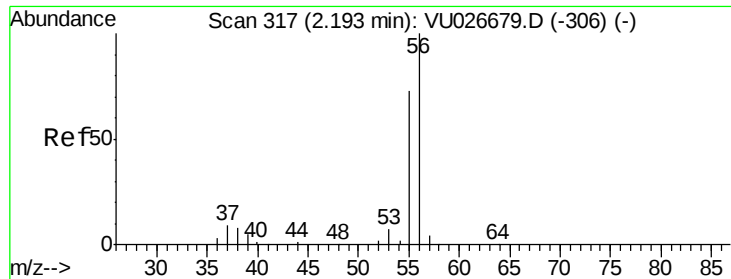


#12

1,1-Dichloroethene
Concen: 20.93 ug/l
RT: 2.28 min Scan# 345
Delta R.T. 0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Tgt Ion	Ratio	Lower	Upper
96	100		
61	173.9	133.0	199.6
98	65.5	51.3	76.9





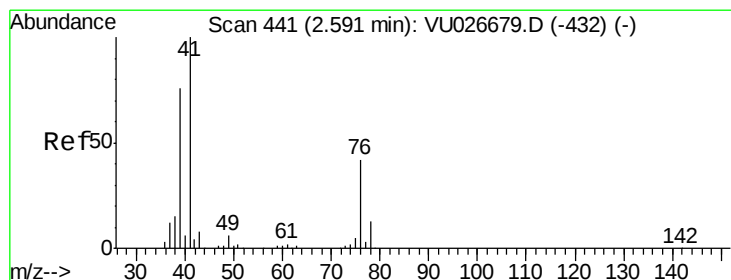
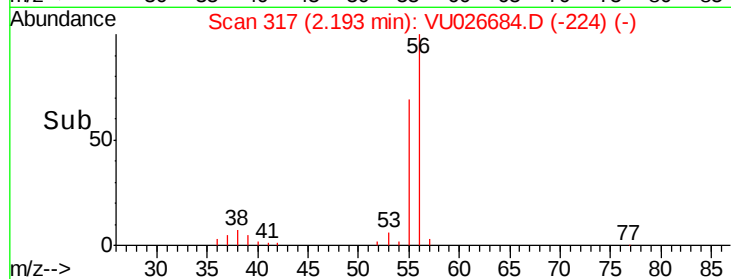
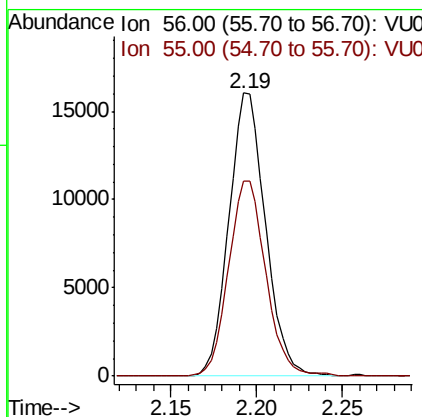
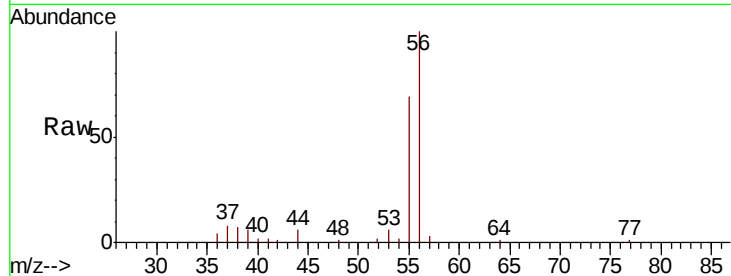
#13
Acrolein
Concen: 88.13 ug/l
RT: 2.19 min Scan# 317
Delta R.T. 0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Instrument :
MSVOA_U
ClientSampleId :
VU0912MBS01

Tot Ion	Ratio	Lower	Upper
56	100		
55	70.4	57.4	86.2

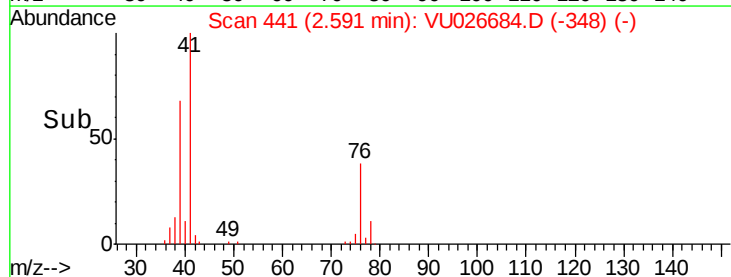
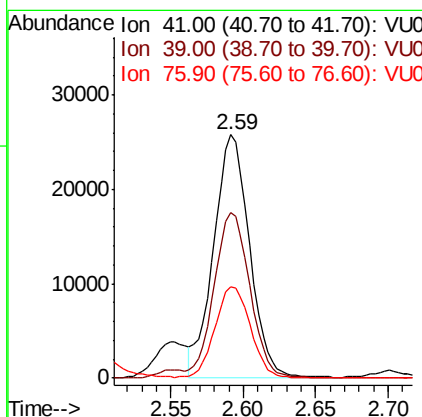
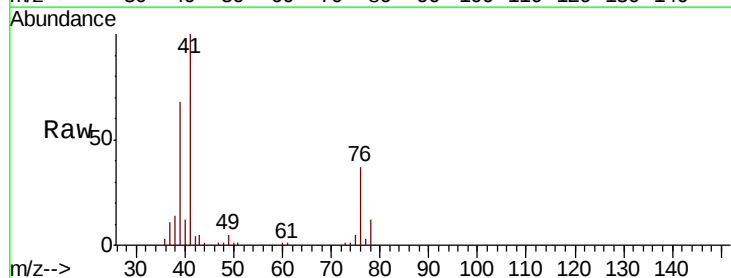
Manual Integrations
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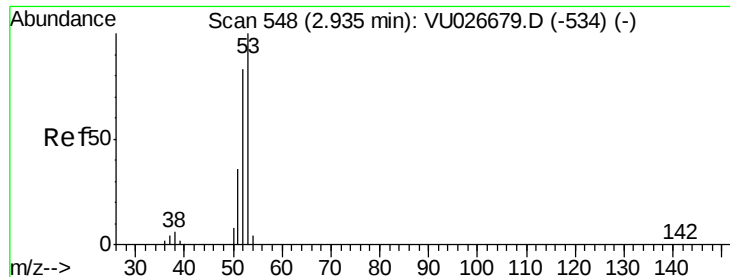
MMDadoda
9/13/2018 4:48:57 PM



#14
Allyl chloride
Concen: 19.97 ug/l
RT: 2.59 min Scan# 441
Delta R.T. 0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Tgt Ion	Ratio	Lower	Upper
41	100		
39	67.6	56.9	85.3
76	36.9	29.7	44.5





#15

Acrylonitrile

Concen: 105.72 ug/l

RT: 2.94 min Scan# 548

Delta R.T. 0.00 min

Lab File: VU026684.D

Acq: 11 Sep 2018 17:24

Instrument :

MSVOA_U

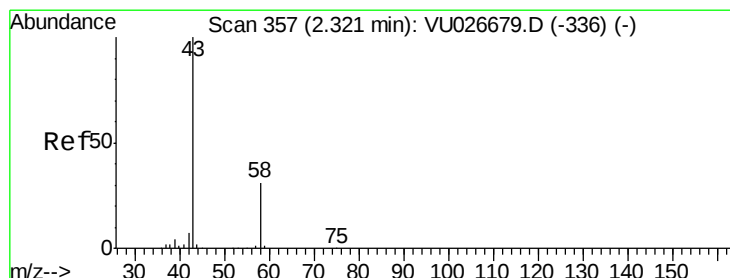
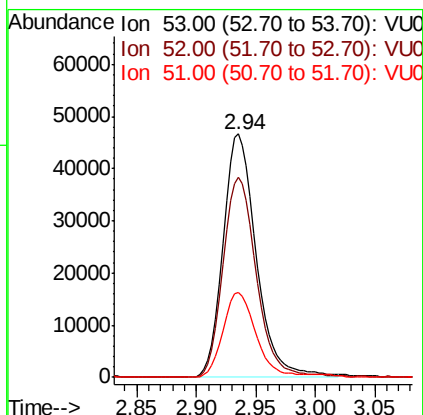
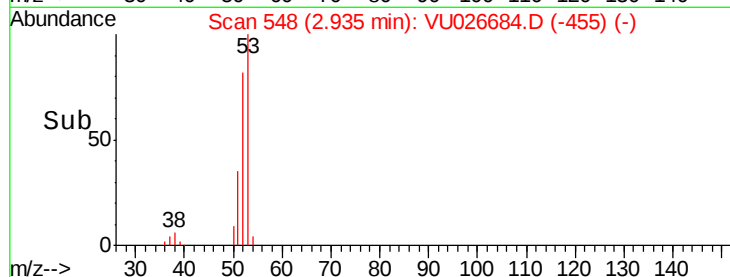
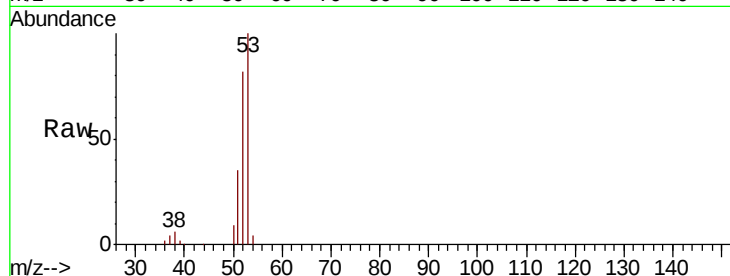
ClientSampleId :

VU0912MBS01

Tot Ion:	53	Resp:	90360
Ion	Ratio	Lower	Upper
53	100		
52	82.7	65.8	98.8
51	35.6	27.7	41.5

Manual Integrations
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#16

Acetone

Concen: 112.99 ug/l

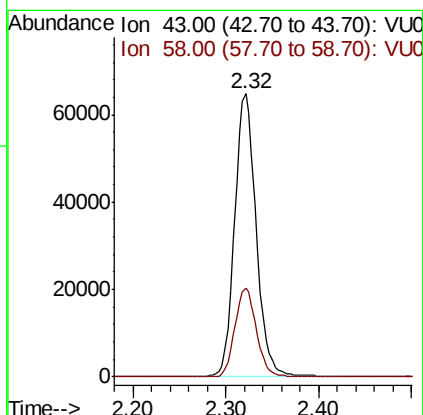
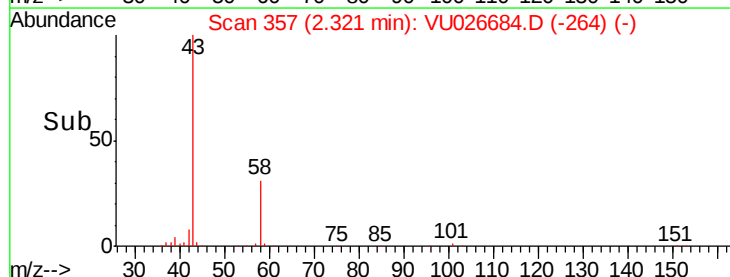
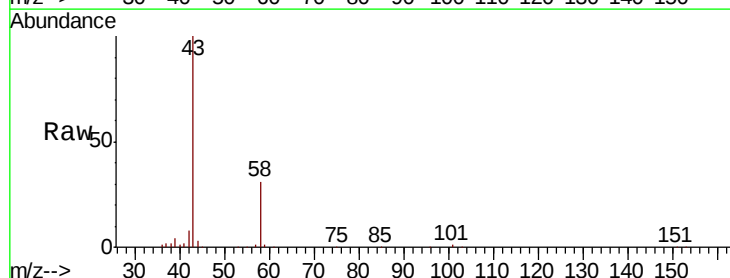
RT: 2.32 min Scan# 357

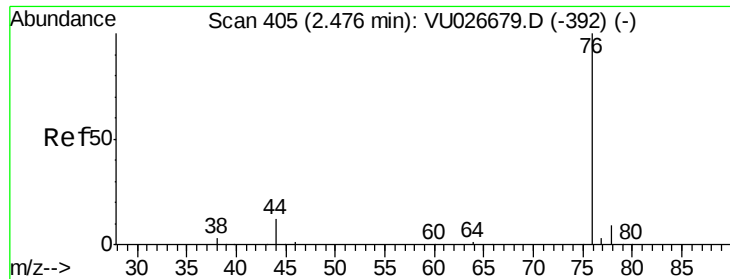
Delta R.T. 0.00 min

Lab File: VU026684.D

Acq: 11 Sep 2018 17:24

Tgt Ion:	43	Resp:	104596
Ion	Ratio	Lower	Upper
43	100		
58	31.3	25.1	37.7





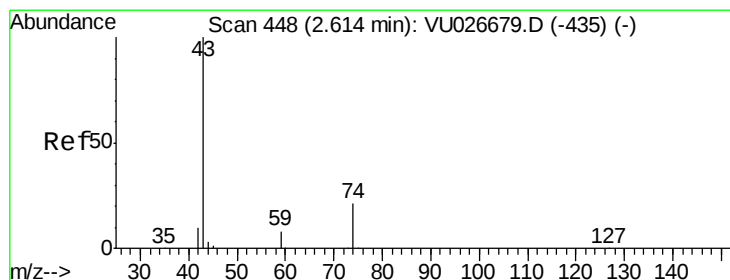
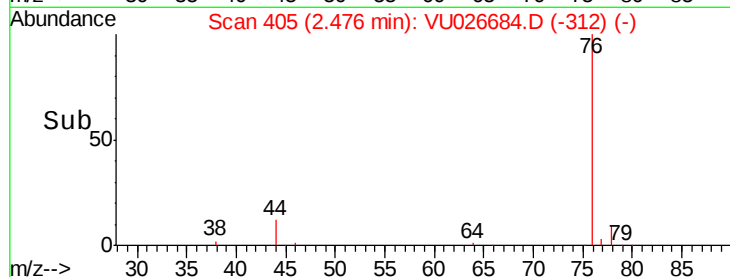
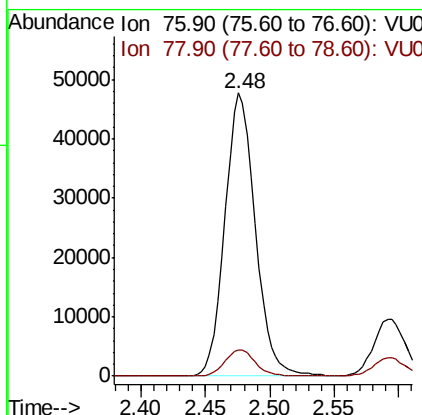
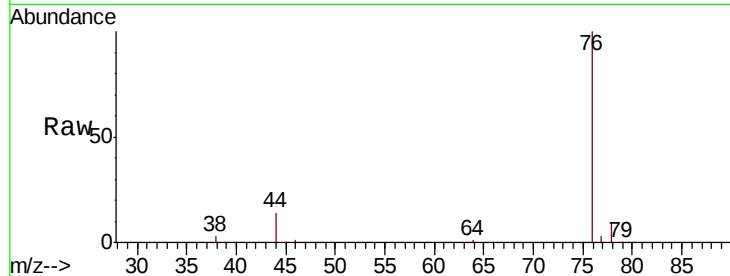
#17
Carbon Disulfide
Concen: 19.85 ug/l
RT: 2.48 min Scan# 405
Delta R.T. 0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Instrument :
MSVOA_U
ClientSampleId :
VU0912MBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.0	10.6

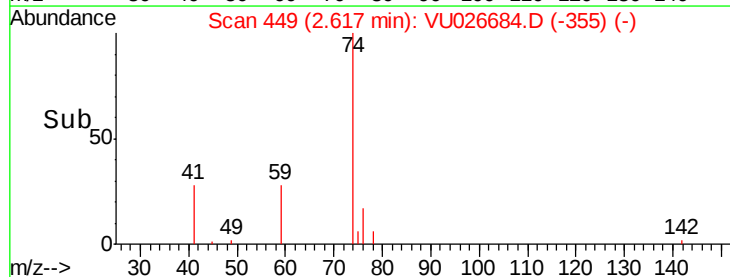
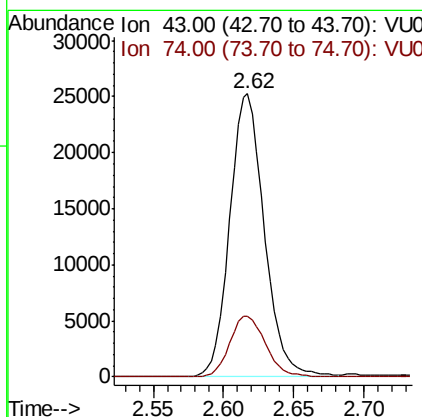
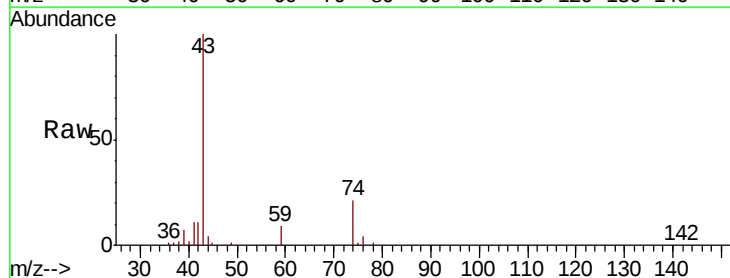
Manual Integrations
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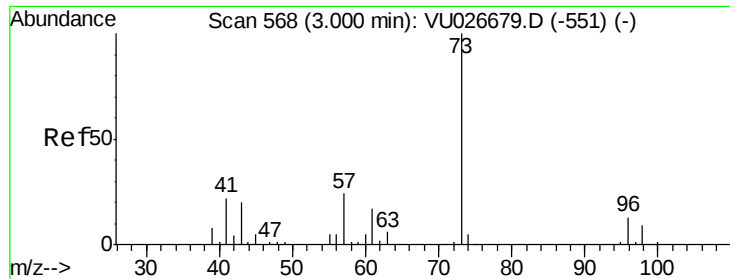
MMDadoda
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#18
Methyl Acetate
Concen: 21.74 ug/l
RT: 2.62 min Scan# 449
Delta R.T. 0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Tgt Ion	Ratio	Lower	Upper
43	100		
74	22.1	17.7	26.5





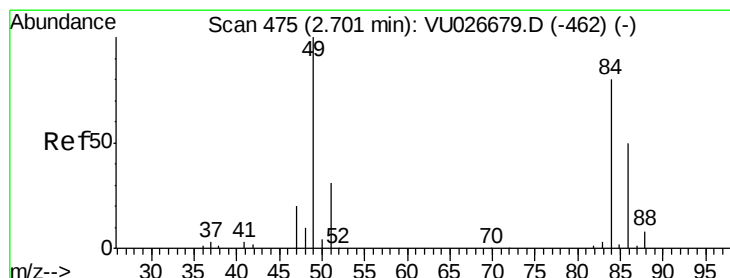
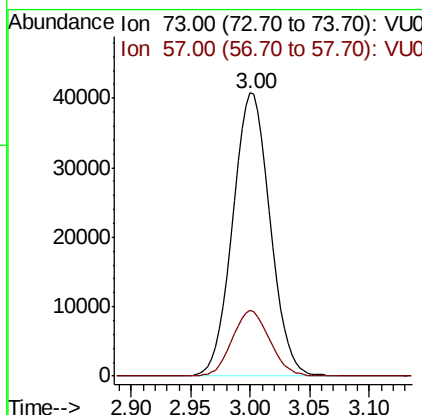
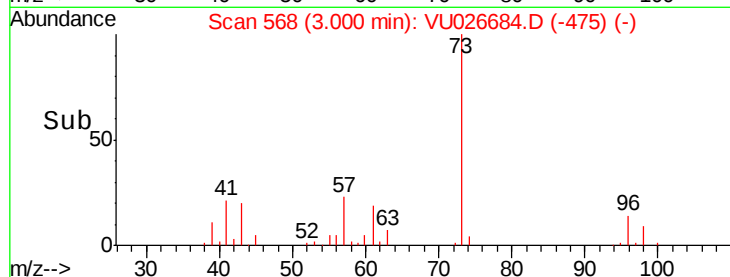
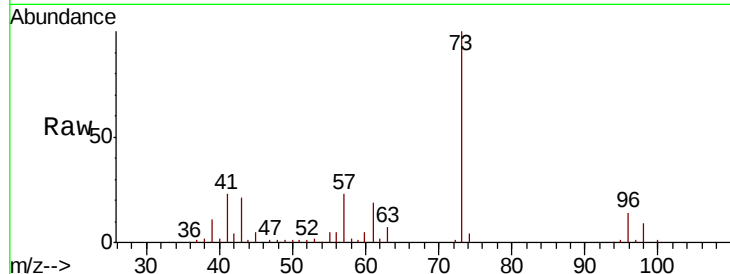
#19
Methvl tert-butvl Ether
Concen: 20.83 ug/l
RT: 3.00 min Scan# 568
Delta R.T. 0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Instrument :
MSVOA_U
ClientSampleId :
VU0912MBS01

Tot Ion: 73 Resp: 88735
Ion Ratio Lower Upper
73 100
57 23.1 18.9 28.3

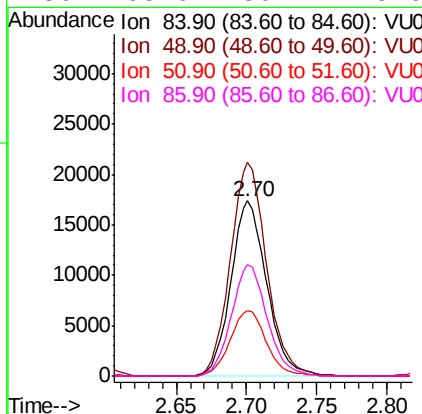
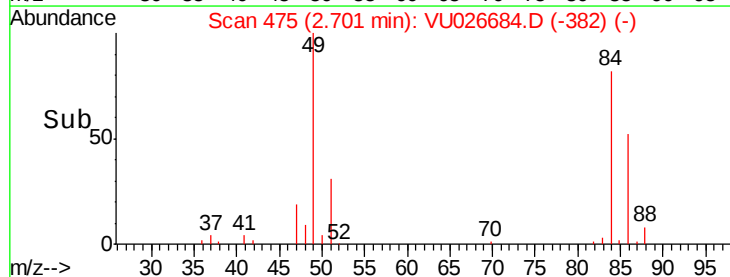
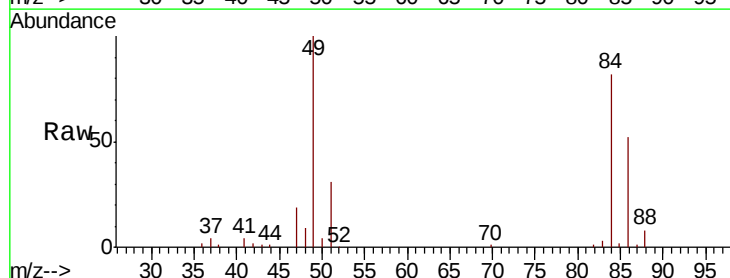
Manual Integrations
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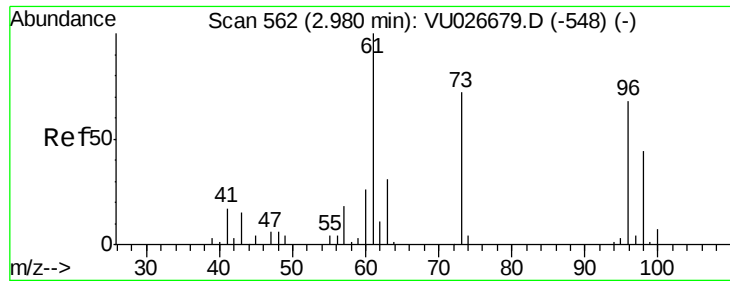
MMDadoda
9/13/2018 4:48:57 PM



#20
Methylene Chloride
Concen: 20.48 ug/l
RT: 2.70 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Tgt Ion: 84 Resp: 30758
Ion Ratio Lower Upper
84 100
49 122.0 100.6 151.0
51 37.6 30.9 46.3
86 63.6 50.4 75.6





#21

trans-1,2-Dichloroethene

Concen: 21.09 ug/l

RT: 2.98 min Scan# 563

Delta R.T. 0.00 min

Lab File: VU026684.D

Acq: 11 Sep 2018 17:24

Instrument :

MSVOA_U

ClientSampled :

VU0912MBS01

Tot Ion: 96 Resp: 27497

Ion Ratio Lower Upper

96 100

61 140.0 117.7 176.5

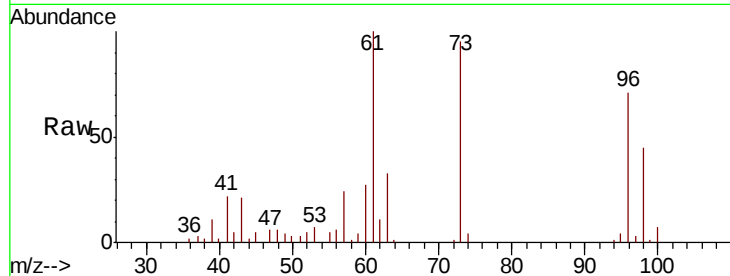
98 63.0 52.0 78.0

Manual Integrations

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MMDadoda

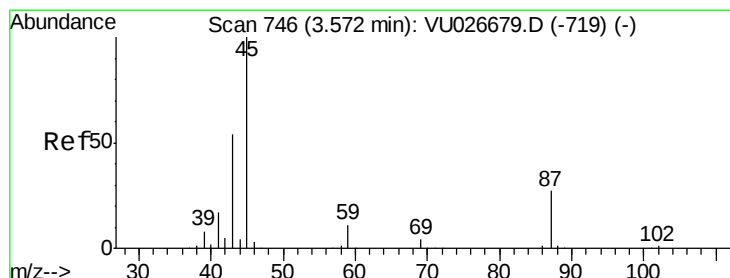
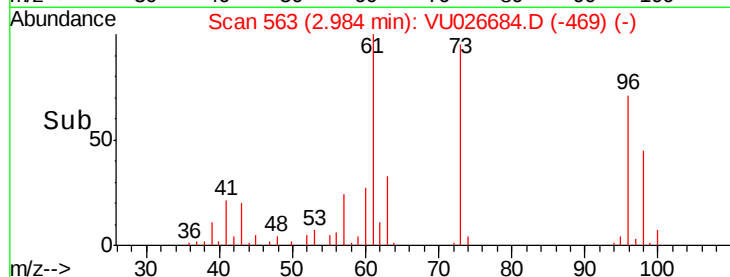
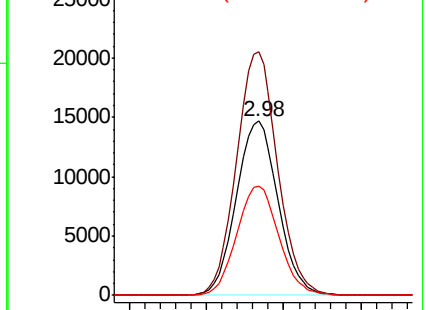
9/13/2018 4:48:57 PM



Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0



#22

Diisopropyl ether

Concen: 21.44 ug/l

RT: 3.58 min Scan# 747

Delta R.T. 0.00 min

Lab File: VU026684.D

Acq: 11 Sep 2018 17:24

Tgt Ion: 45 Resp: 99712

Ion Ratio Lower Upper

45 100

43 55.2 44.6 67.0

87 25.7 21.4 32.0

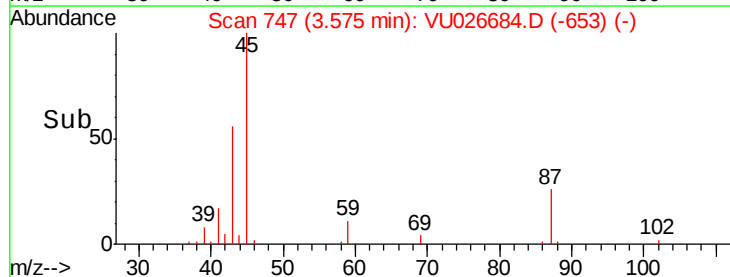
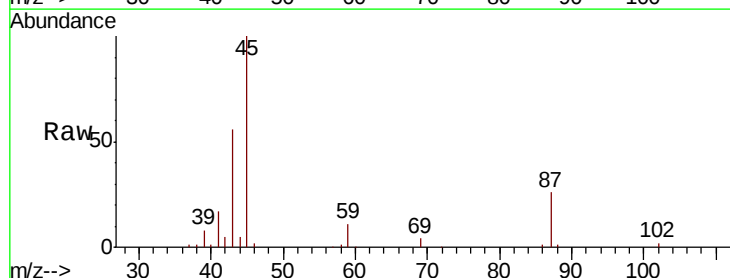
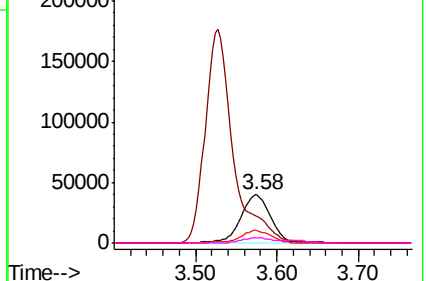
59 11.2 9.0 13.4

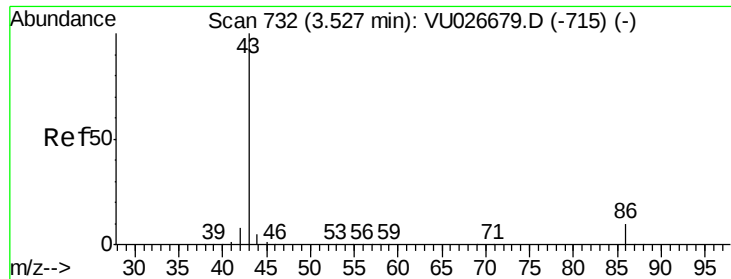
Abundance Ion 45.00 (44.70 to 45.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

Ion 59.00 (58.70 to 59.70): VU0





#23

Vinyl Acetate

Concen: 106.62 ug/l

RT: 3.53 min Scan# 732

Delta R.T. 0.00 min

Lab File: VU026684.D

Acq: 11 Sep 2018 17:24

Instrument :

MSVOA_U

ClientSampleId :

VU0912MBS01

Tot Ion: 43 Resp: 421274

Ion Ratio Lower Upper

43 100

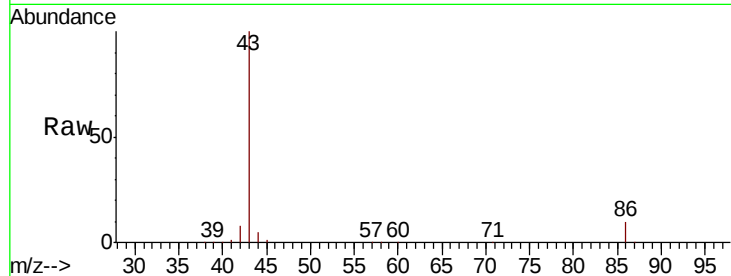
86 9.9 7.8 11.8

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

3.53

200000

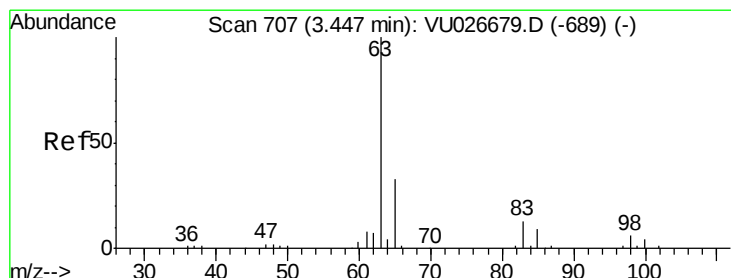
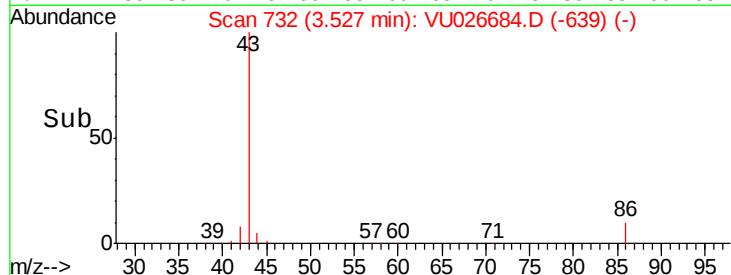
150000

100000

50000

0

Time-->



#24

1,1-Dichloroethane

Concen: 21.02 ug/l

RT: 3.45 min Scan# 707

Delta R.T. 0.00 min

Lab File: VU026684.D

Acq: 11 Sep 2018 17:24

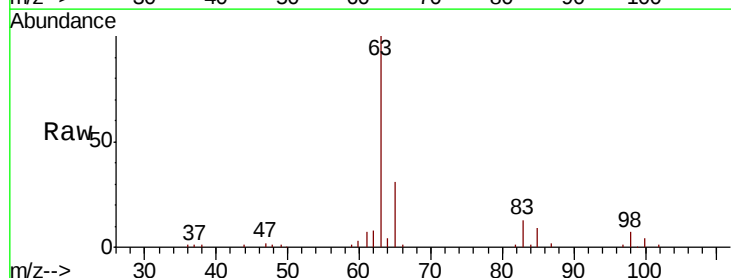
Tgt Ion: 63 Resp: 55143

Ion Ratio Lower Upper

63 100

98 6.9 3.1 9.4

100 3.9 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

3.45

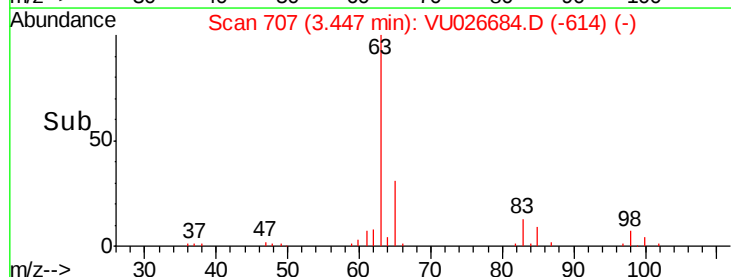
30000

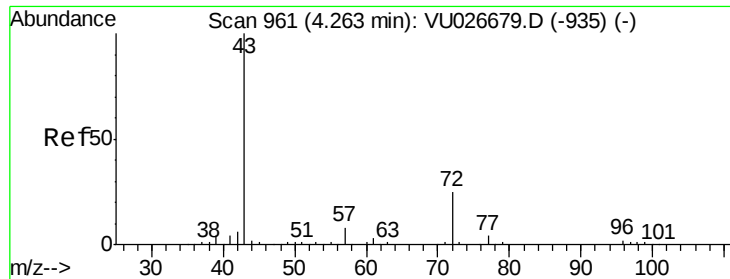
20000

10000

0

Time-->





#25

2-Butanone

Concen: 108.16 ug/l

RT: 4.26 min Scan# 961

Delta R.T. 0.00 min

Lab File: VU026684.D

Acq: 11 Sep 2018 17:24

Instrument :

MSVOA_U

ClientSampleId :

VU0912MBS01

Tot Ion: 43 Resp: 134876

Ion Ratio Lower Upper

43 100

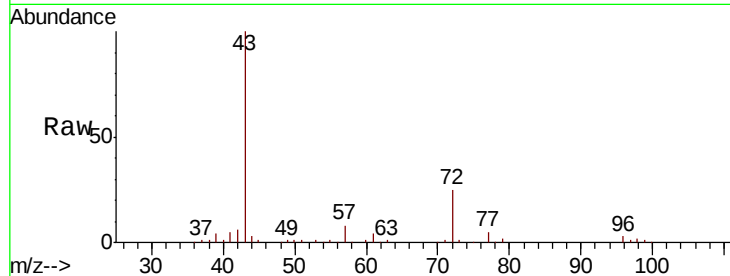
72 25.5 20.3 30.5

Manual Integrations

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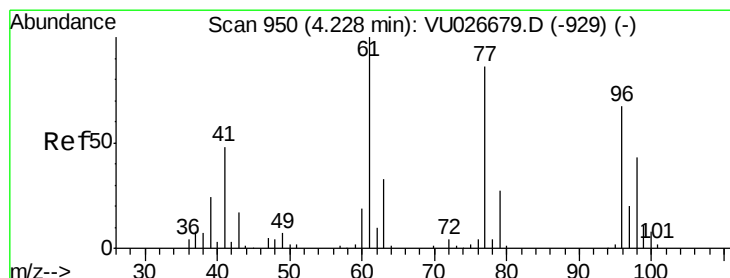
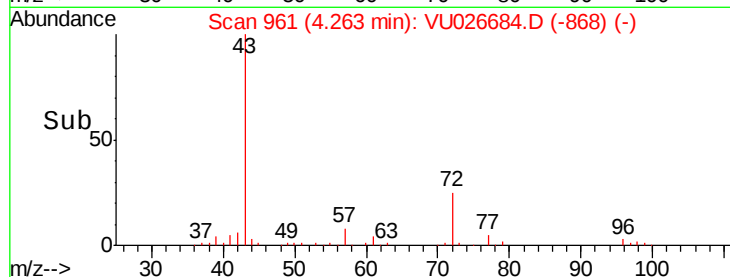
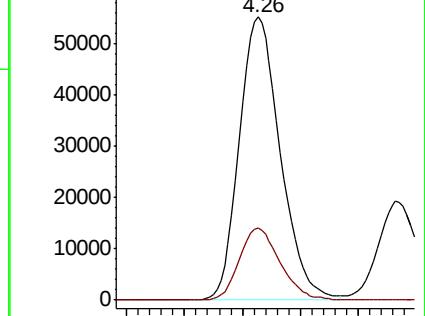
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0



#26

2,2-Dichloropropane

Concen: 20.97 ug/l

RT: 4.23 min Scan# 950

Delta R.T. 0.00 min

Lab File: VU026684.D

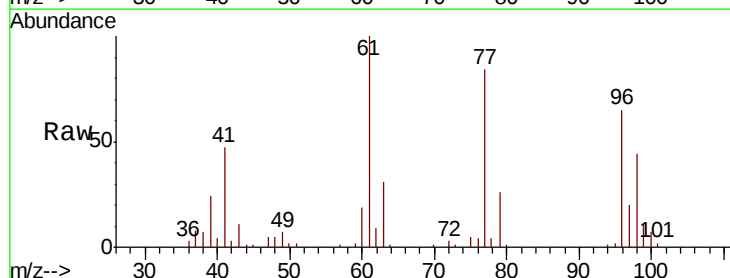
Acq: 11 Sep 2018 17:24

Tgt Ion: 77 Resp: 45227

Ion Ratio Lower Upper

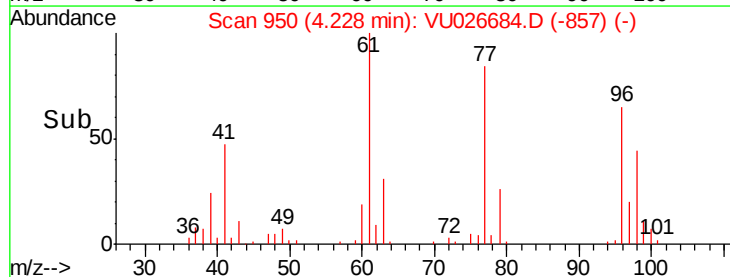
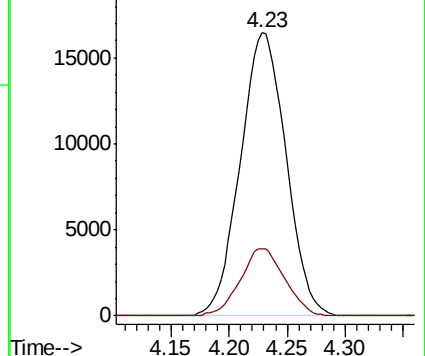
77 100

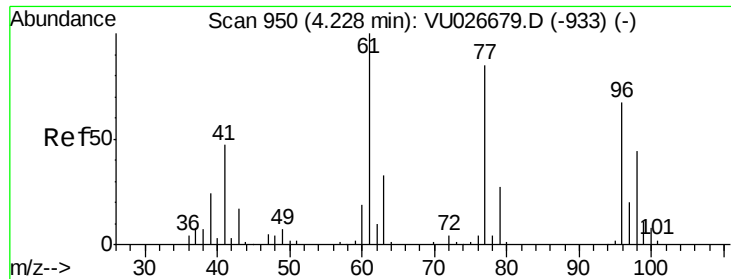
97 23.0 11.6 34.8



Abundance Ion 76.90 (76.60 to 77.60): VU0

Ion 96.90 (96.60 to 97.60): VU0





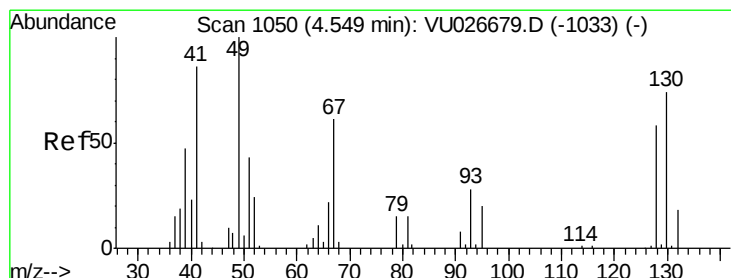
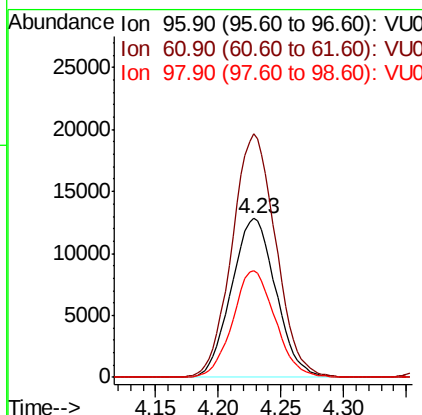
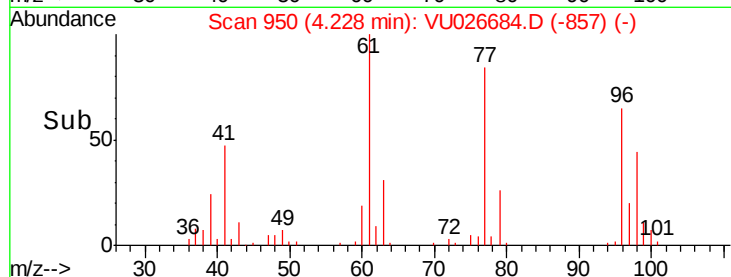
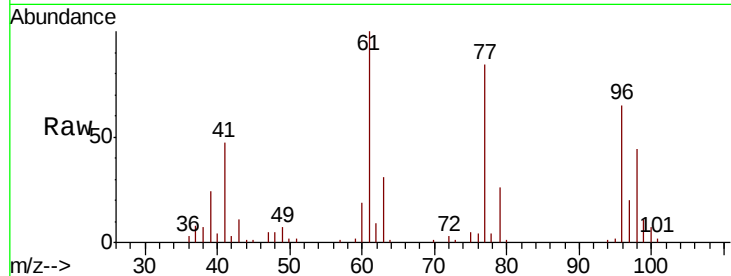
#27
 cis-1,2-Dichloroethene
 Concen: 20.98 ug/l
 RT: 4.23 min Scan# 950
 Delta R.T. 0.00 min
 Lab File: VU026684.D
 Acq: 11 Sep 2018 17:24

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0912MBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	151.4	0.0	301.8	
98	64.3	0.0	127.2	

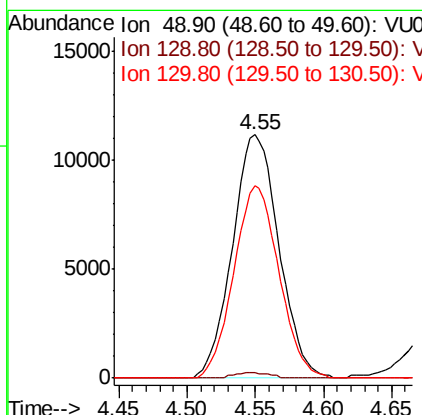
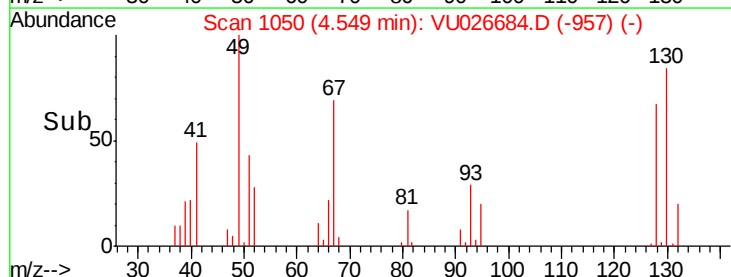
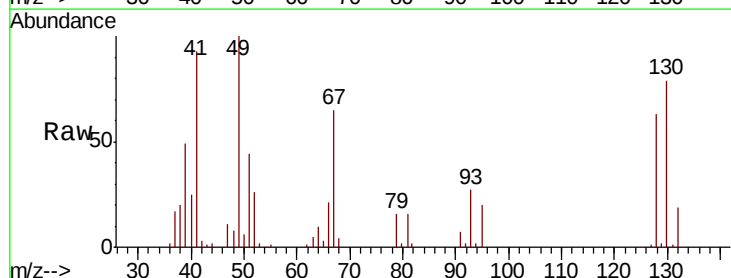
Manual Integrations
 APPROVED

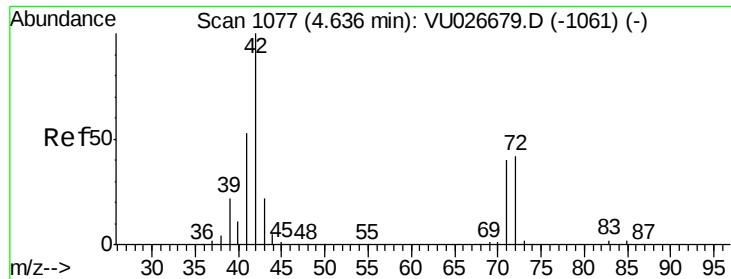
MMDadoda
 9/13/2018 4:48:57 PM



#28
 Bromochloromethane
 Concen: 21.02 ug/l
 RT: 4.55 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VU026684.D
 Acq: 11 Sep 2018 17:24

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	1.7	0.0	3.8	
130	76.7	59.8	89.6	





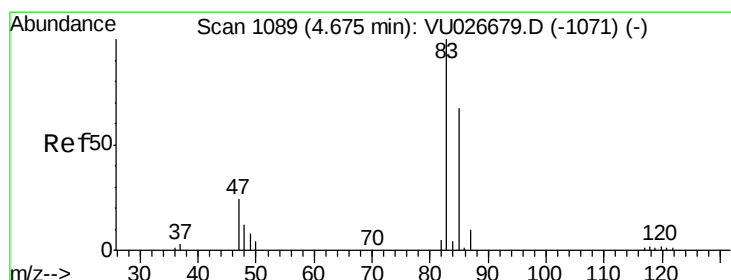
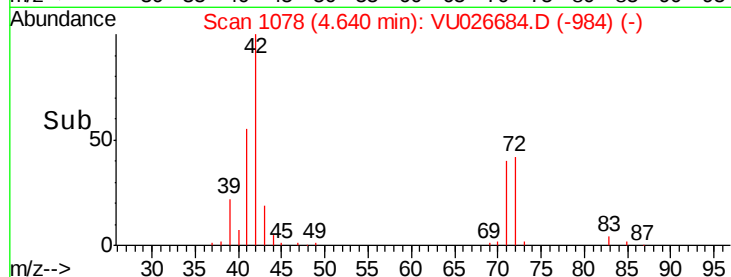
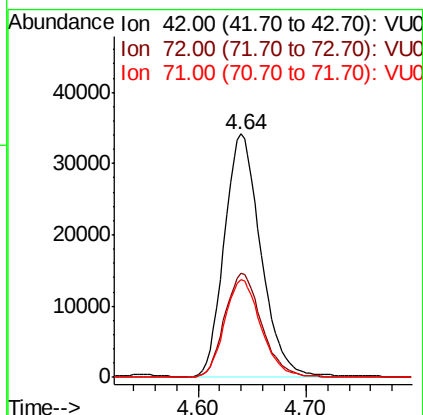
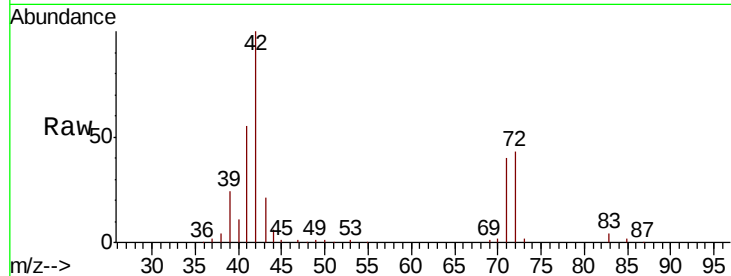
#29
Tetrahydrofuran
Concen: 107.57 ug/l
RT: 4.64 min Scan# 1078
Delta R.T. 0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Instrument :
MSVOA_U
ClientSampleId :
VU0912MBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.1	34.4	51.6
71	40.0	32.4	48.6

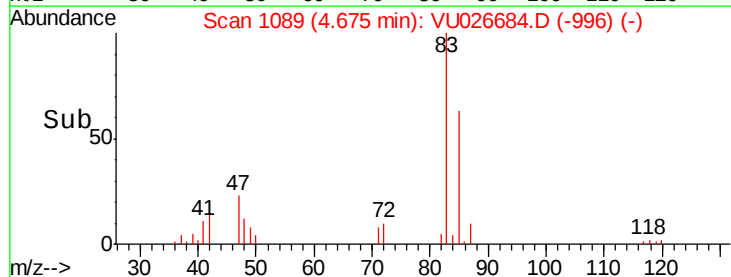
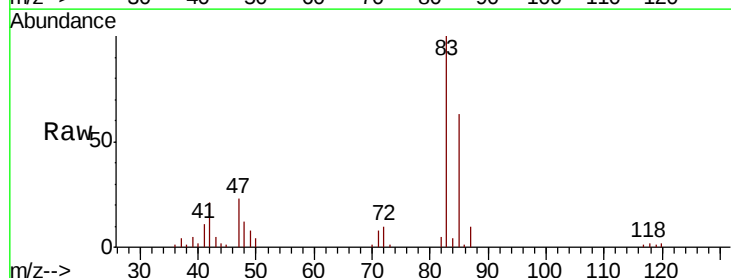
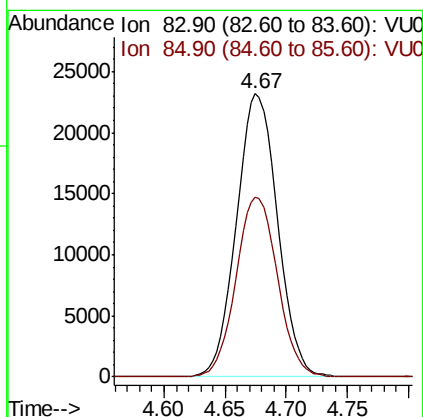
Manual Integrations
APPROVED

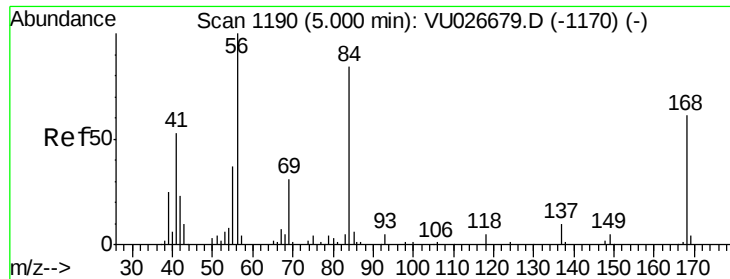
MMDadoda
9/13/2018 4:48:57 PM



#30
Chloroform
Concen: 20.93 ug/l
RT: 4.67 min Scan# 1089
Delta R.T. 0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.3	53.3	79.9





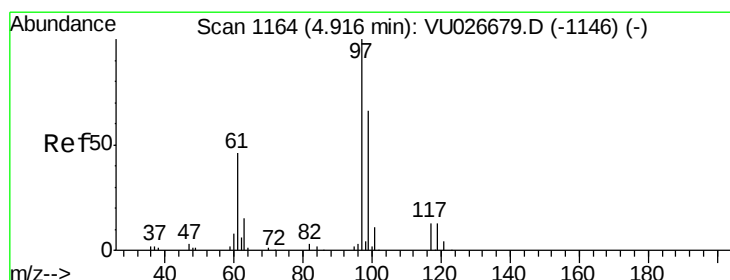
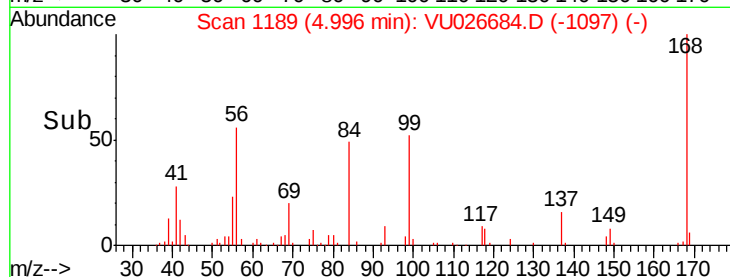
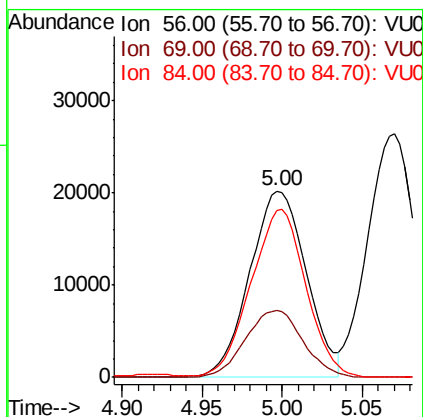
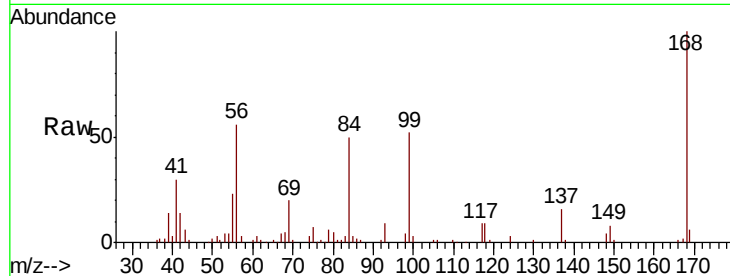
#31
Cyclohexane
Concen: 20.51 ug/l
RT: 5.00 min Scan# 1189
Delta R.T. -0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Instrument :
MSVOA_U
ClientSampleId :
VU0912MBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	35.7	24.9	37.3
84	88.8	66.6	100.0

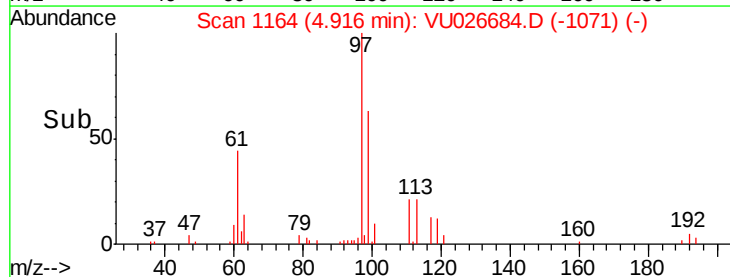
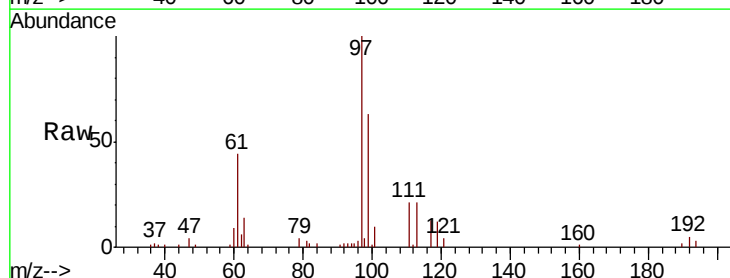
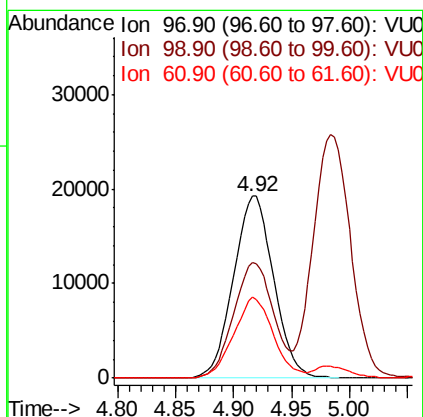
Manual Integrations
APPROVED

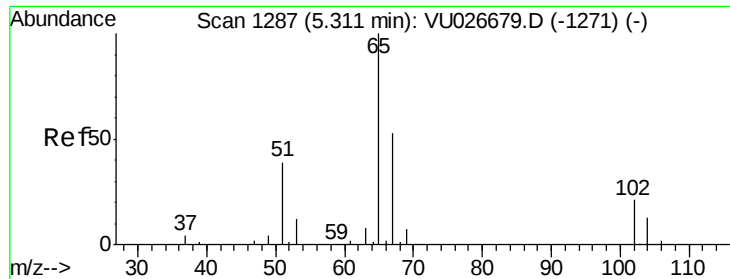
MMDadoda
9/13/2018 4:48:57 PM



#32
1,1,1-Trichloroethane
Concen: 21.67 ug/l
RT: 4.92 min Scan# 1164
Delta R.T. 0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.6	52.2	78.2
61	43.8	36.8	55.2





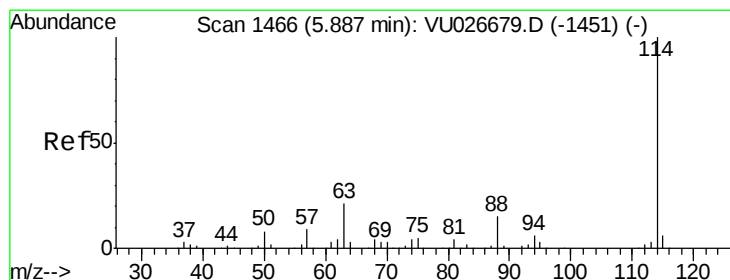
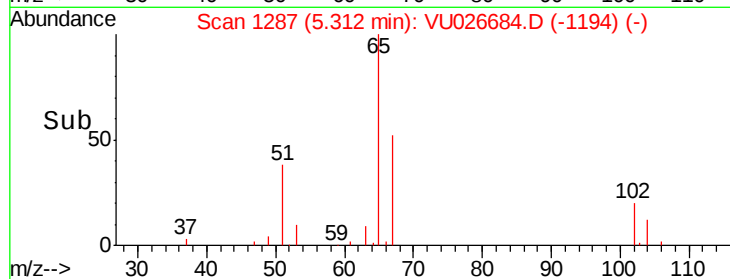
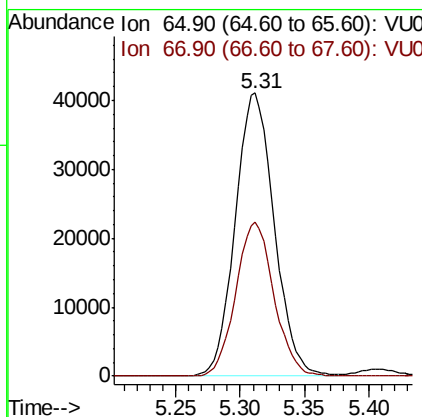
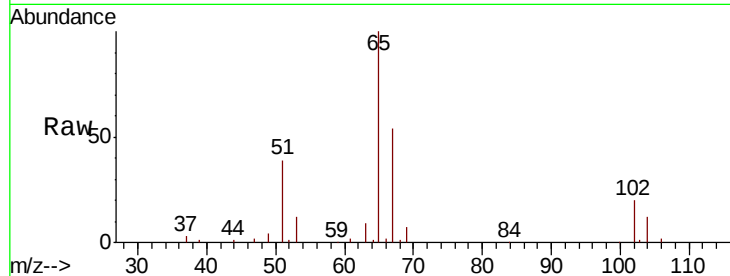
#33
 1,2-Dichloroethane-d4
 Concen: 52.88 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. 0.00 min
 Lab File: VU026684.D
 Acq: 11 Sep 2018 17:24

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0912MBS01

Tot Ion	Ratio	Lower	Upper
65	100		
67	53.1	0.0	106.4

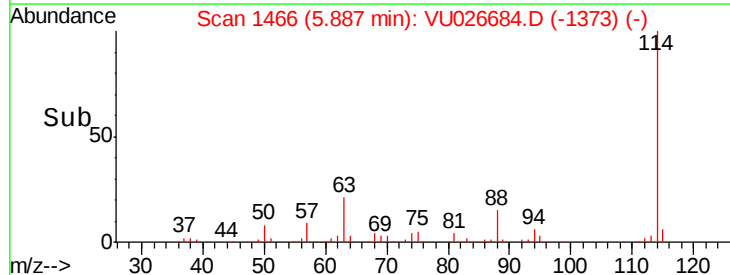
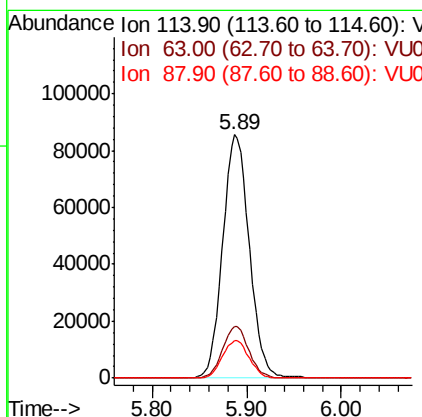
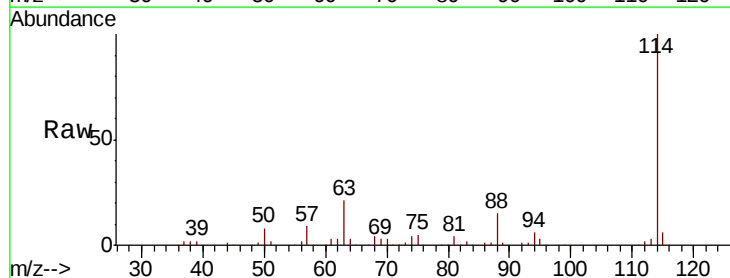
Manual Integrations
 APPROVED

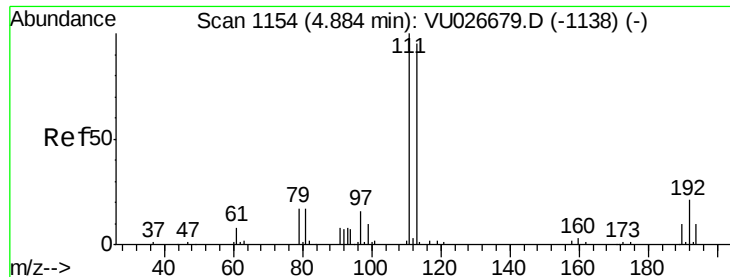
MMDadoda
 9/13/2018 4:48:57 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. 0.00 min
 Lab File: VU026684.D
 Acq: 11 Sep 2018 17:24

Tgt Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	41.4
88	15.3	0.0	30.8





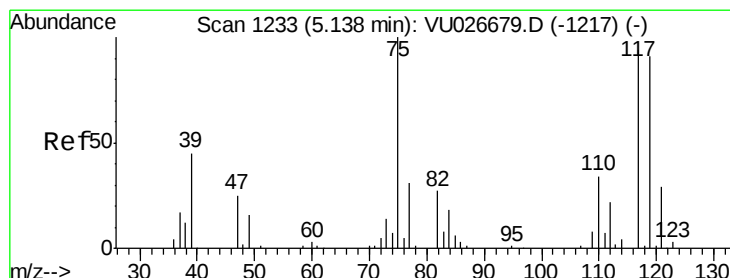
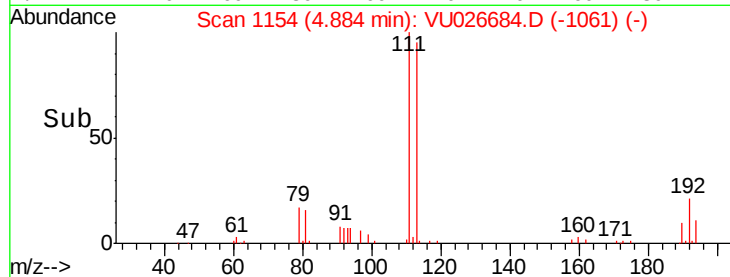
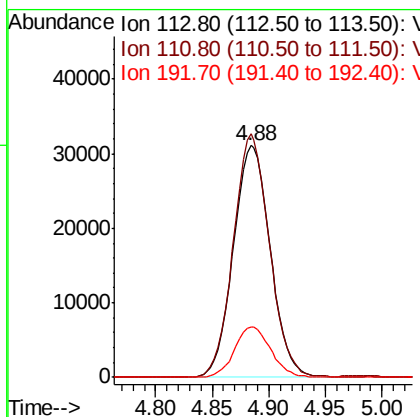
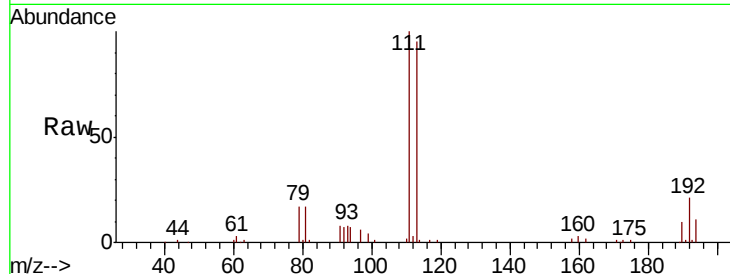
#35
 Dibromofluoromethane
 Concen: 51.94 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. 0.00 min
 Lab File: VU026684.D
 Acq: 11 Sep 2018 17:24

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0912MBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	70806		
111	102.2		83.1	124.7
192	21.2		17.4	26.2

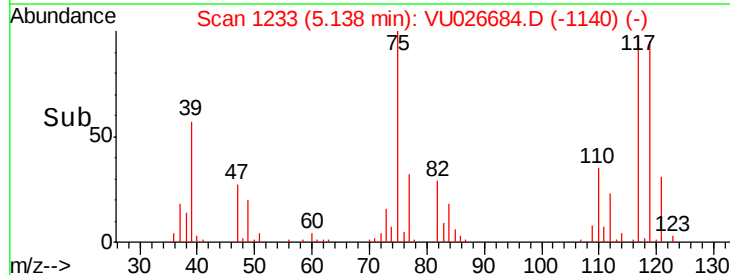
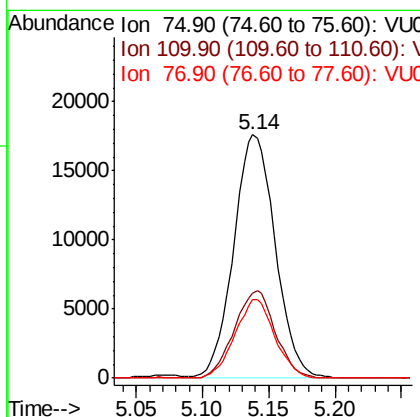
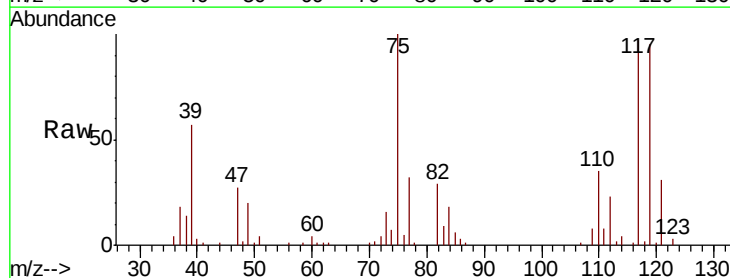
Manual Integrations
 APPROVED

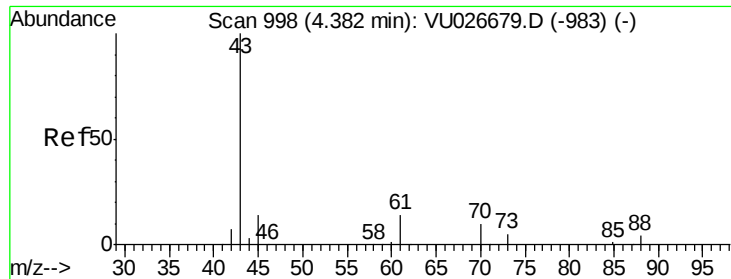
MMDadoda
 9/13/2018 4:48:57 PM



#36
 1,1-Dichloropropene
 Concen: 20.50 ug/l
 RT: 5.14 min Scan# 1233
 Delta R.T. 0.00 min
 Lab File: VU026684.D
 Acq: 11 Sep 2018 17:24

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	38473		
110	35.3		17.3	51.9
77	30.9		24.9	37.3





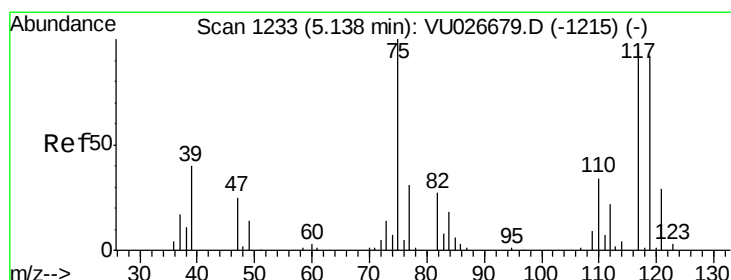
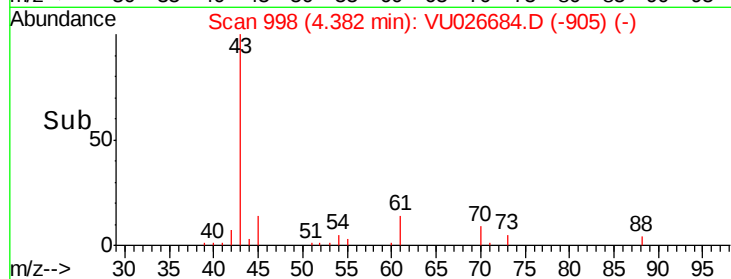
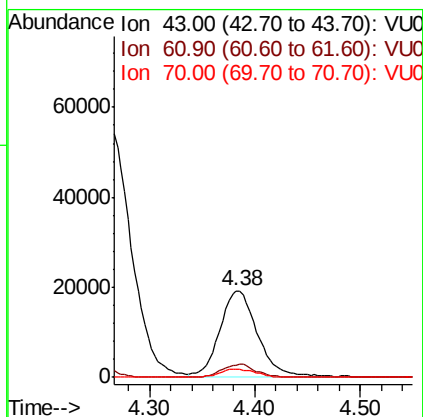
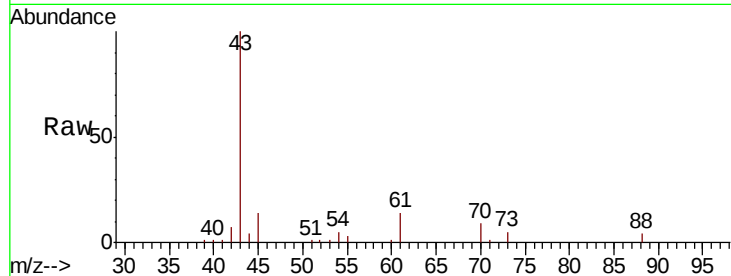
#37
Ethyl Acetate
Concen: 20.64 ug/l
RT: 4.38 min Scan# 998
Delta R.T. 0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Instrument :
MSVOA_U
ClientSampleId :
VU0912MBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.0	11.5	17.3
70	9.4	7.8	11.8

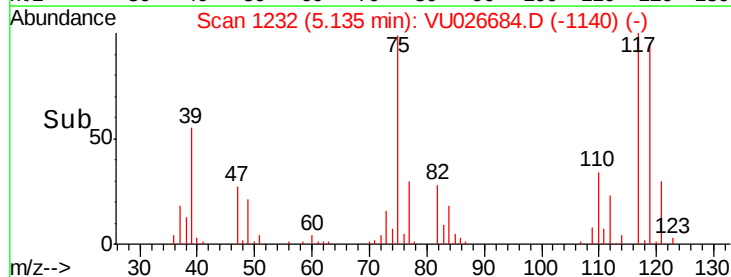
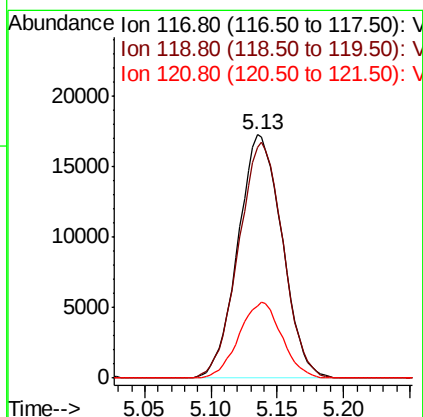
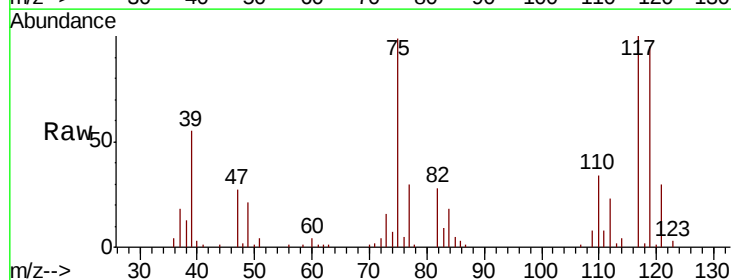
Manual Integrations
APPROVED

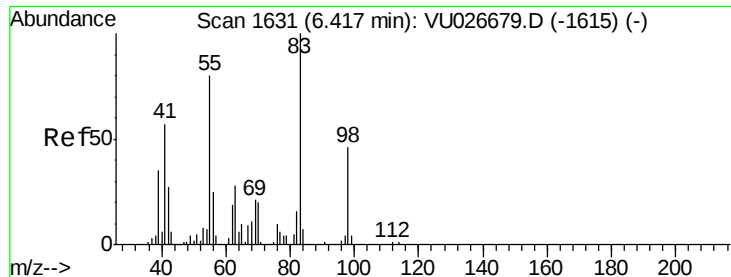
MMDadoda
9/13/2018 4:48:57 PM



#38
Carbon Tetrachloride
Concen: 20.18 ug/l
RT: 5.13 min Scan# 1232
Delta R.T. -0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.0	77.8	116.8
121	29.6	25.0	37.4





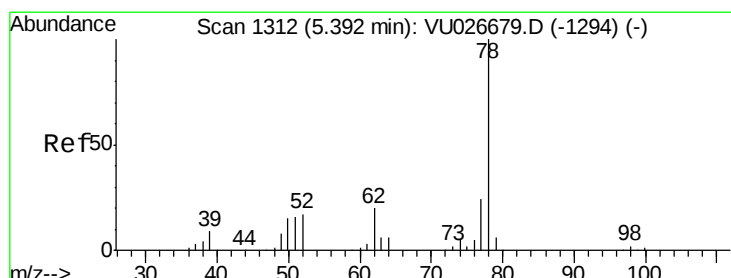
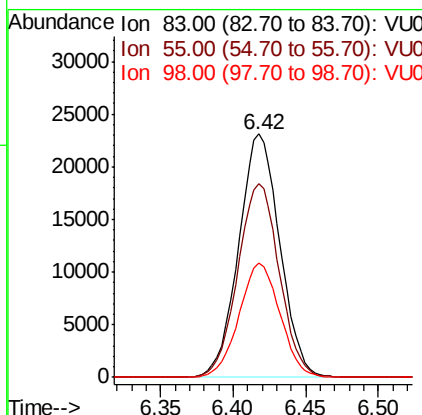
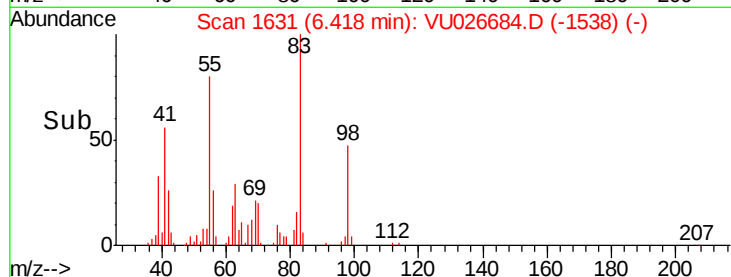
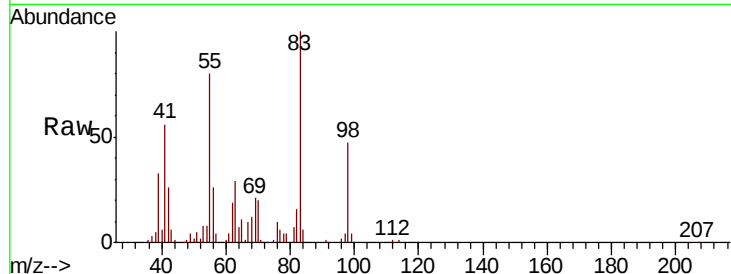
#39
Methvlcvclohexane
Concen: 20.44 ug/l
RT: 6.42 min Scan# 1631
Delta R.T. 0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Instrument :
MSVOA_U
ClientSampleId :
VU0912MBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	79.5	63.8	95.6
98	46.8	37.2	55.8

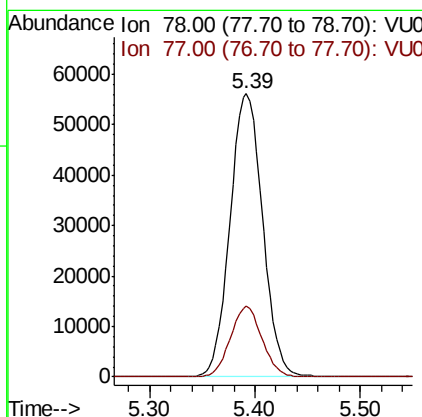
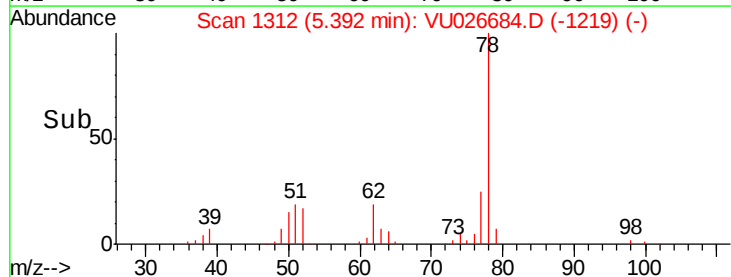
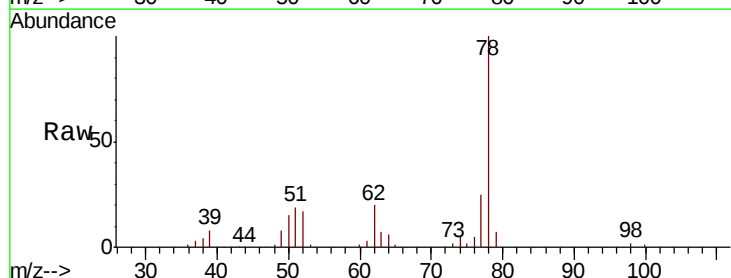
Manual Integrations
APPROVED

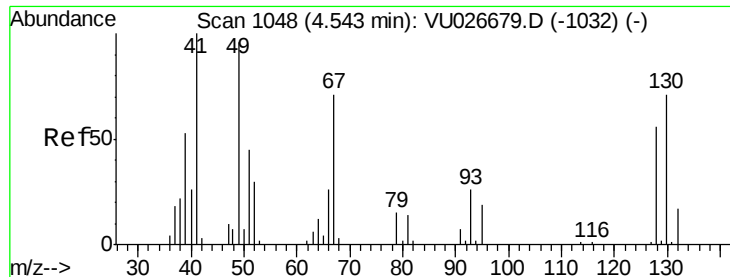
MMDadoda
9/13/2018 4:48:57 PM



#40
Benzene
Concen: 20.69 ug/l
RT: 5.39 min Scan# 1312
Delta R.T. 0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.0	19.5	29.3





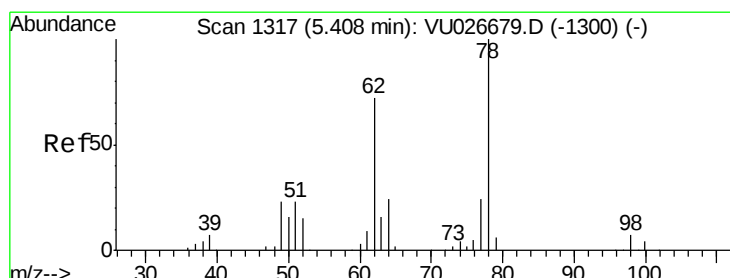
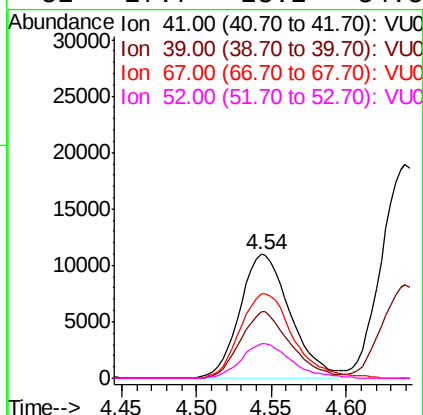
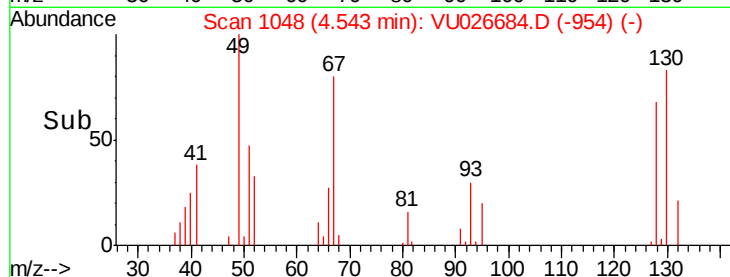
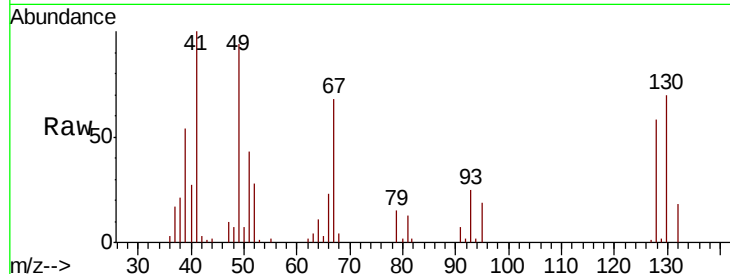
#41
Methacrylonitrile
Concen: 20.75 ug/l
RT: 4.54 min Scan# 1048
Delta R.T. 0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Instrument :
MSVOA_U
ClientSampleId :
VU0912MBS01

Tot Ion	Ratio	Lower	Upper
41	100		
39	53.2	42.9	64.3
67	71.5	56.6	84.8
52	27.7	23.2	34.8

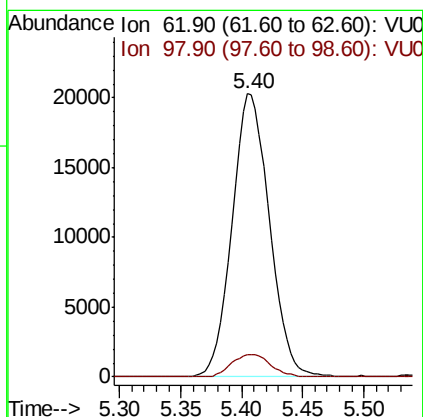
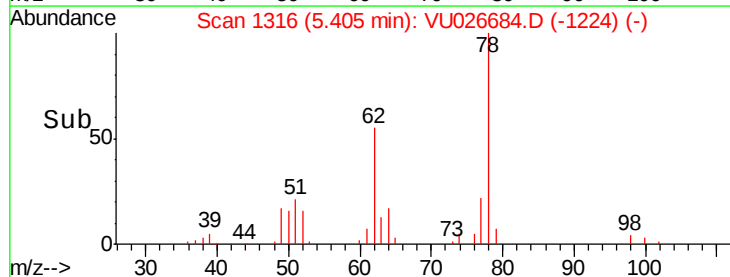
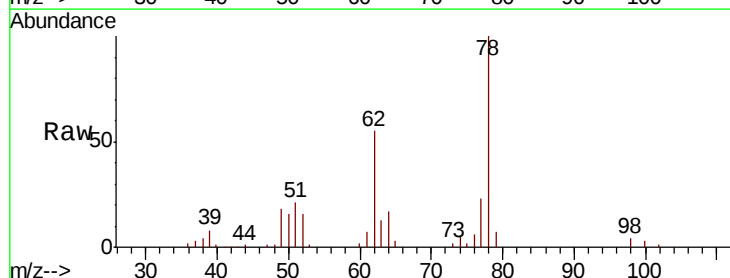
Manual Integrations
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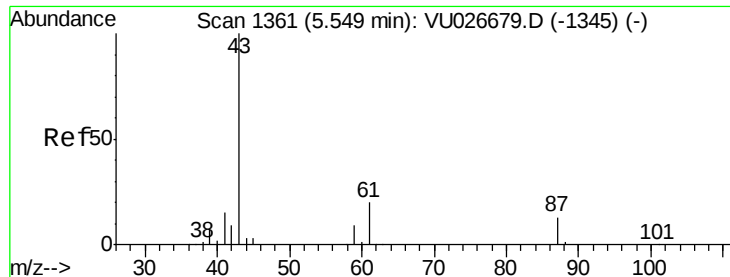
MMDadoda
9/13/2018 4:48:57 PM



#42
1,2-Dichloroethane
Concen: 20.76 ug/l
RT: 5.40 min Scan# 1316
Delta R.T. -0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Tgt Ion	Ratio	Lower	Upper
62	100		
98	8.2	0.0	17.8





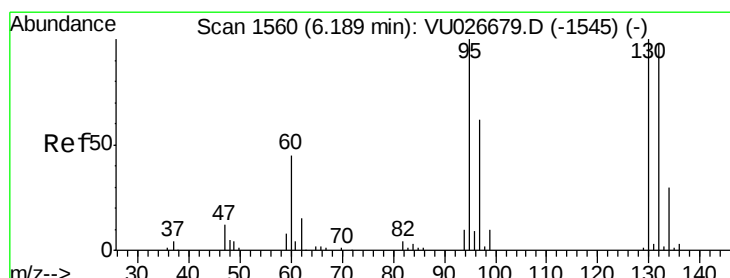
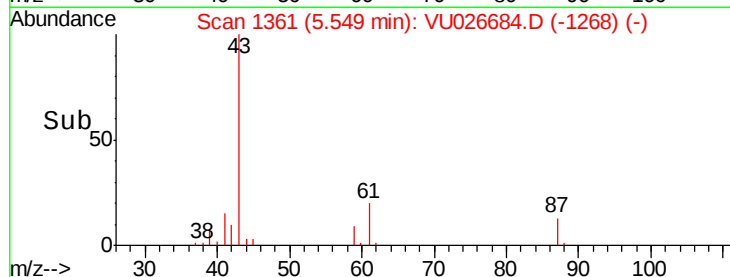
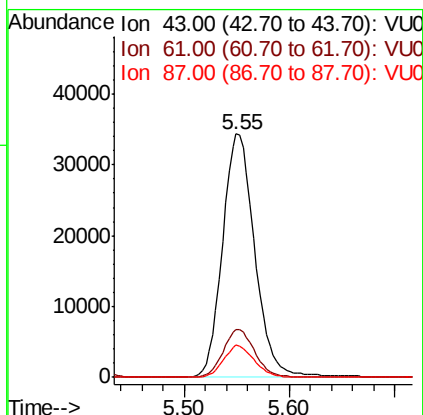
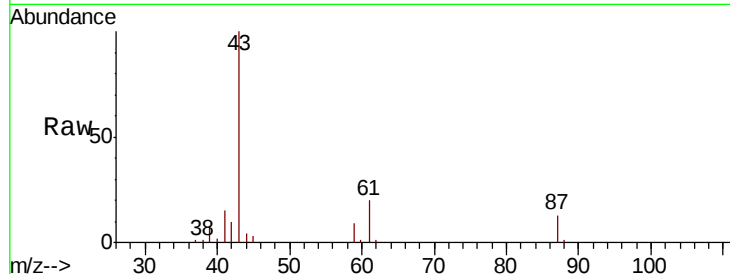
#43
Isopropyl Acetate
Concen: 21.17 ug/l
RT: 5.55 min Scan# 1361
Delta R.T. 0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Instrument :
MSVOA_U
ClientSampleId :
VU0912MBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	19.0	16.0	24.0
87	12.3	10.1	15.1

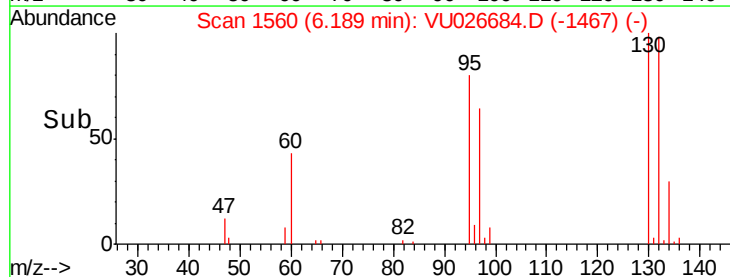
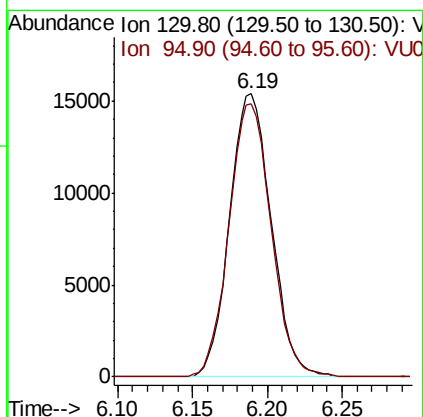
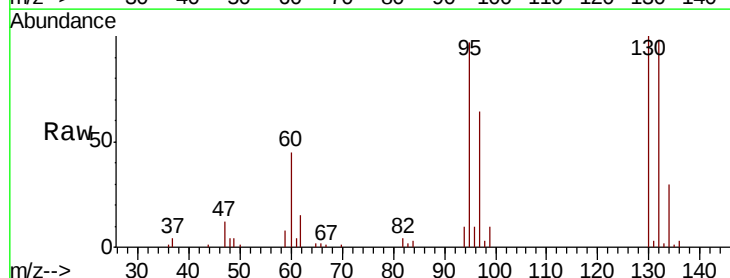
Manual Integrations
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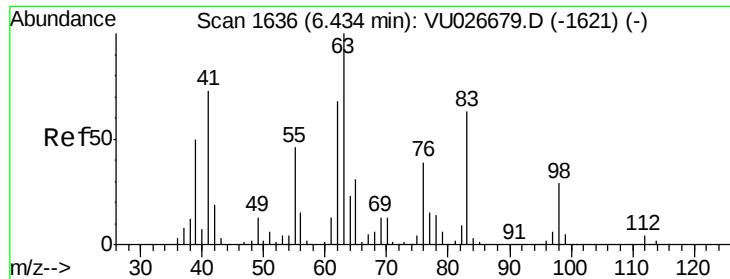
MMDadoda
9/13/2018 4:48:57 PM



#44
Trichloroethene
Concen: 20.69 ug/l
RT: 6.19 min Scan# 1560
Delta R.T. 0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Tgt Ion	Ratio	Lower	Upper
130	100		
95	96.5	0.0	199.4





#45

1,2-Dichloropropane

Concen: 20.71 ug/l

RT: 6.43 min Scan# 1636

Delta R.T. 0.00 min

Lab File: VU026684.D

Acq: 11 Sep 2018 17:24

Instrument :

MSVOA_U

ClientSampleId :

VU0912MBS01

Tot Ion: 63 Resp: 32808

Ion Ratio Lower Upper

63 100

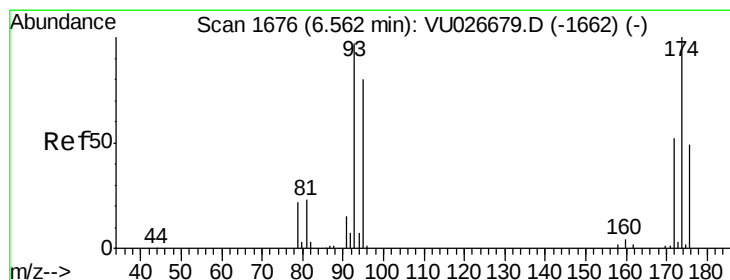
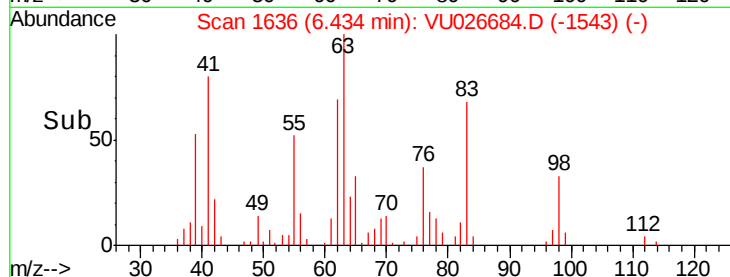
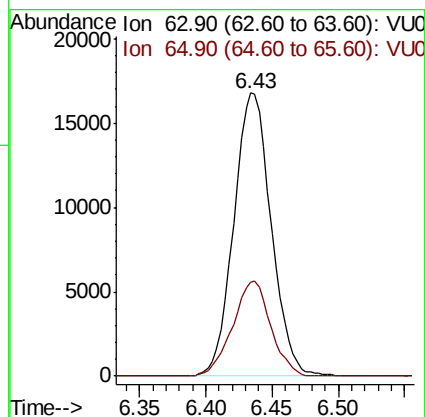
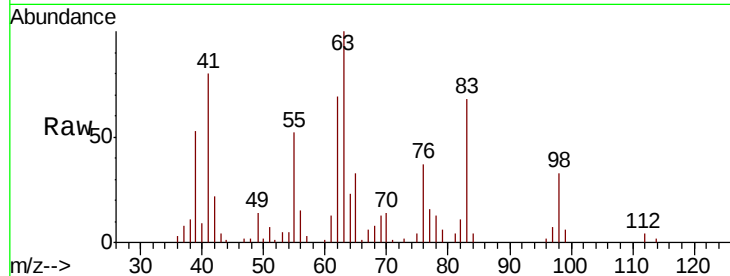
65 33.3 25.0 37.4

Manual Integrations

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#46

Dibromomethane

Concen: 20.88 ug/l

RT: 6.56 min Scan# 1676

Delta R.T. 0.00 min

Lab File: VU026684.D

Acq: 11 Sep 2018 17:24

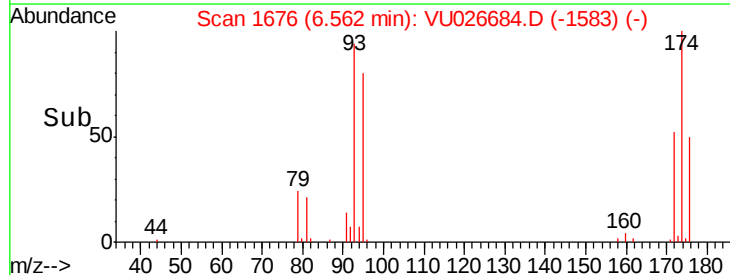
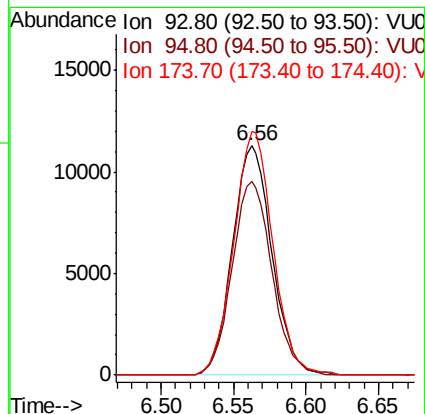
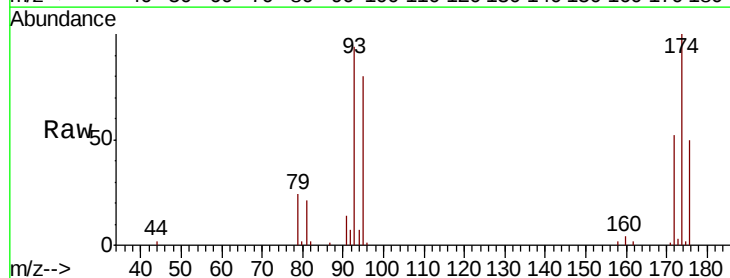
Tgt Ion: 93 Resp: 21344

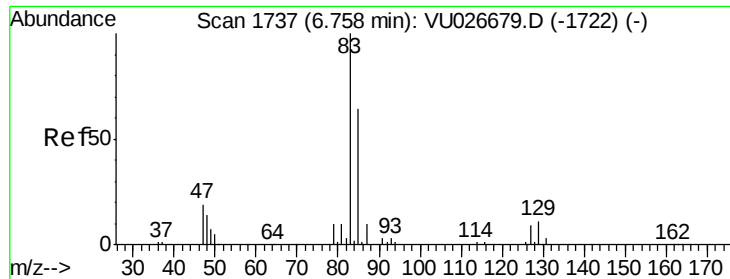
Ion Ratio Lower Upper

93 100

95 85.0 65.4 98.2

174 105.2 81.6 122.4





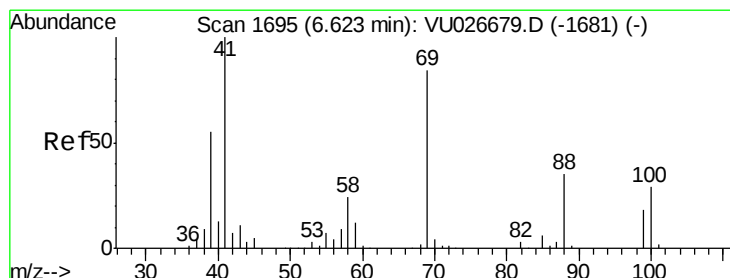
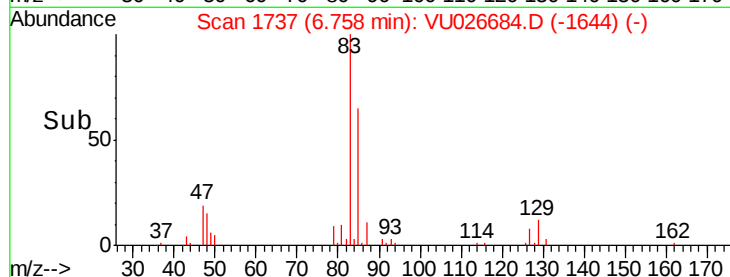
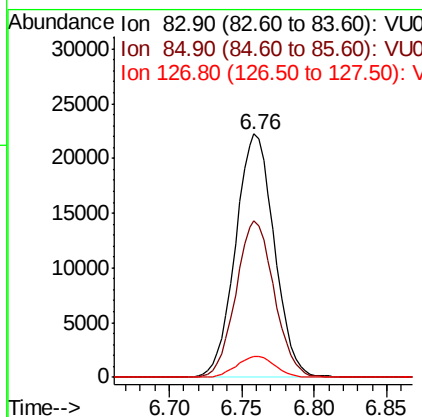
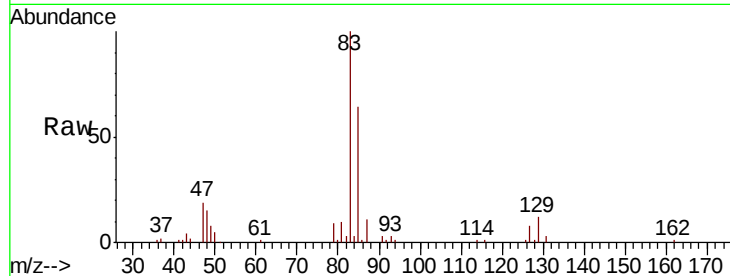
#47
Bromodichloromethane
Concen: 20.52 ug/l
RT: 6.76 min Scan# 1737
Delta R.T. 0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Instrument :
MSVOA_U
ClientSampleId :
VU0912MBS01

Tot Ion	83	Resp	41295
Ion Ratio	100	Lower	Upper
83	100		
85	64.1	51.1	76.7
127	8.4	6.9	10.3

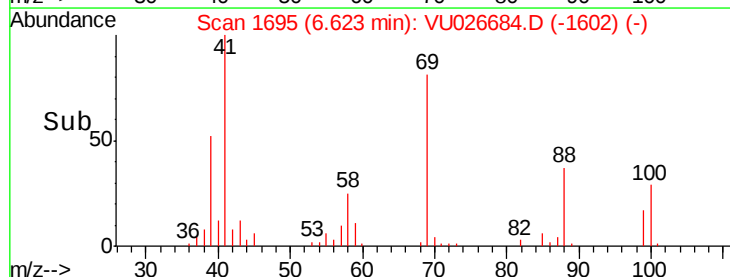
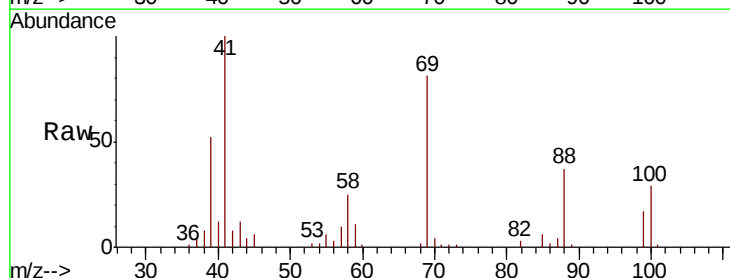
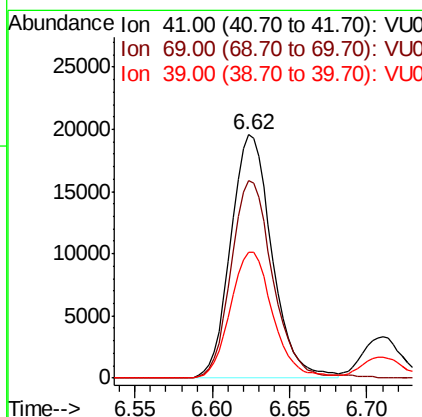
Manual Integrations
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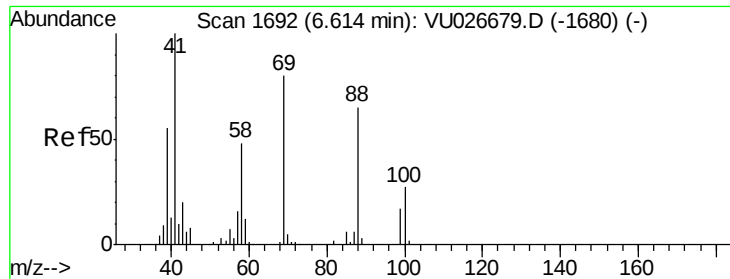
MMDadoda
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#48
Methyl methacrylate
Concen: 20.41 ug/l
RT: 6.62 min Scan# 1695
Delta R.T. 0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Tgt Ion	41	Resp	36250
Ion Ratio	100	Lower	Upper
41	100		
69	81.4	66.6	99.8
39	53.1	43.6	65.4





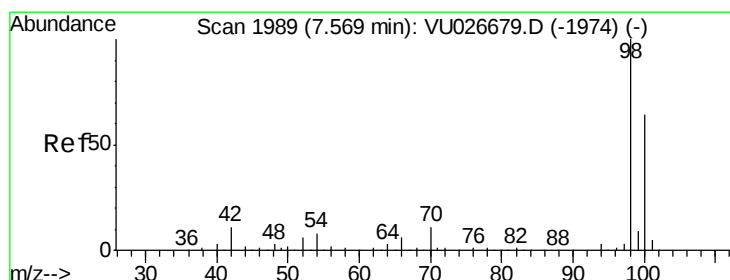
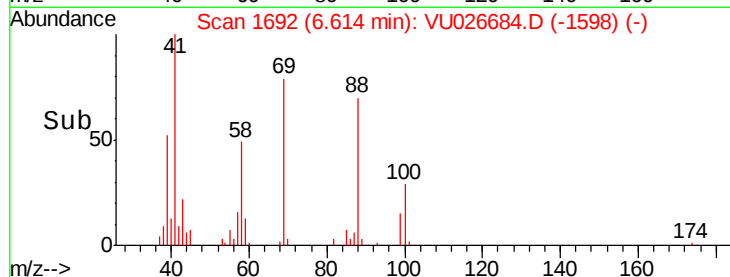
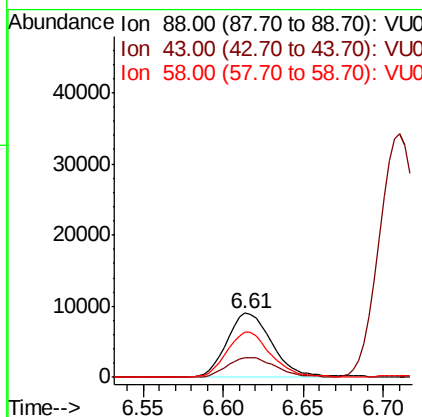
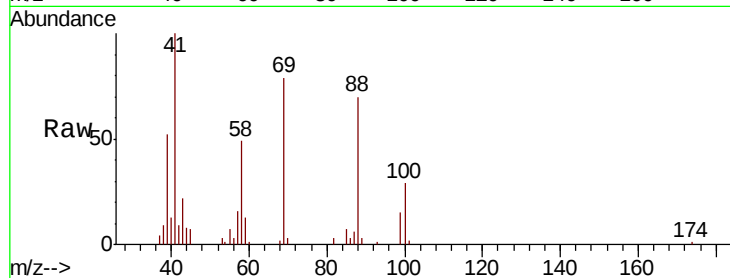
#49
1,4-Dioxane
Concen: 420.18 ug/l
RT: 6.61 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Instrument :
MSVOA_U
ClientSampleId :
VU0912MBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	33.4	25.5	38.3
58	69.5	58.2	87.4

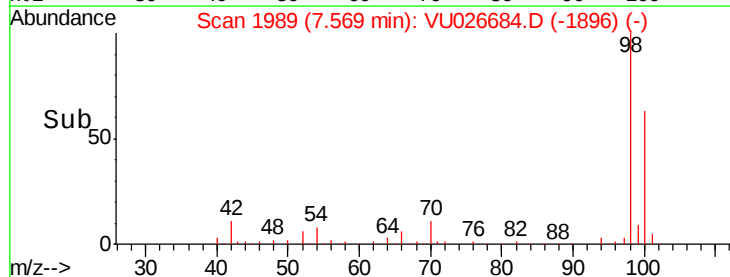
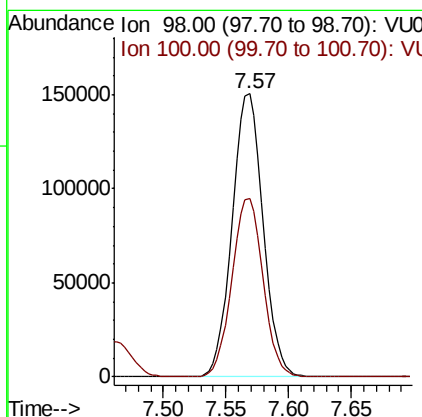
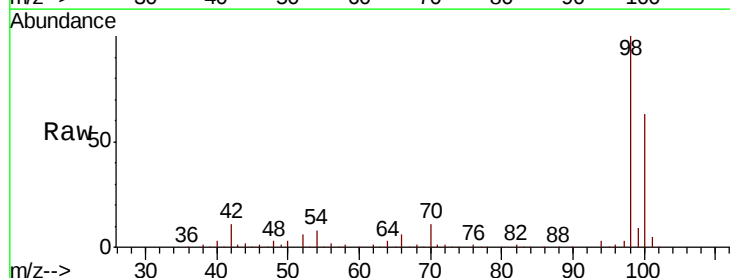
Manual Integrations
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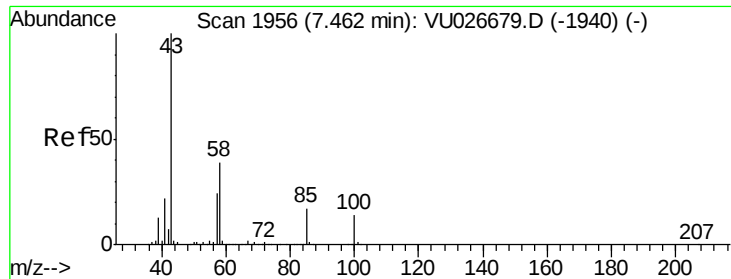
MMDadoda
9/13/2018 4:48:57 PM



#50
Toluene-d8
Concen: 51.35 ug/l
RT: 7.57 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.4	51.2	76.8





#51

4-Methyl-2-Pentanone

Concen: 104.34 ug/l

RT: 7.46 min Scan# 1956

Delta R.T. 0.00 min

Lab File: VU026684.D

Acq: 11 Sep 2018 17:24

Instrument :

MSVOA_U

ClientSampleId :

VU0912MBS01

Tot Ion: 43 Resp: 239780

Ion Ratio Lower Upper

43 100

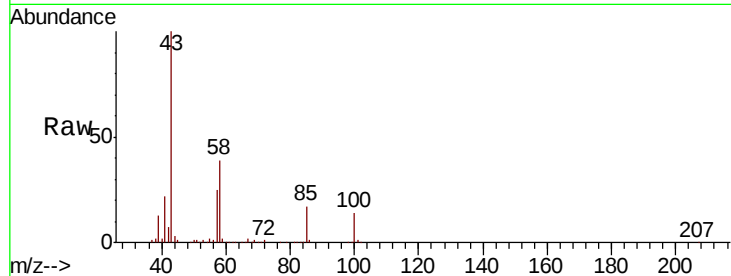
58 38.6 31.1 46.7

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

150000

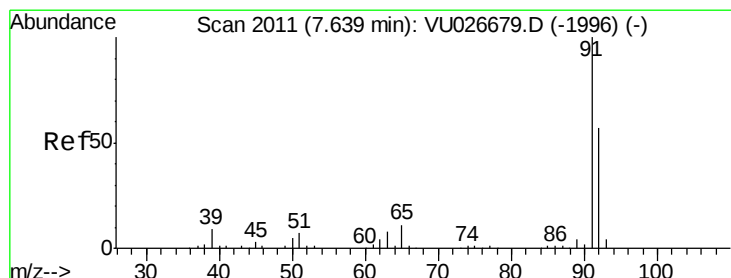
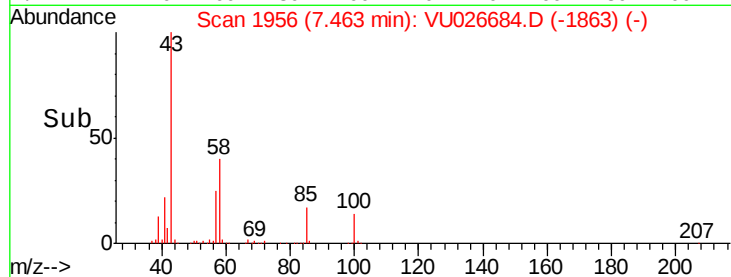
100000

50000

0

7.40 7.45 7.50 7.55

Time-->



#52

Toluene

Concen: 21.04 ug/l

RT: 7.64 min Scan# 2011

Delta R.T. 0.00 min

Lab File: VU026684.D

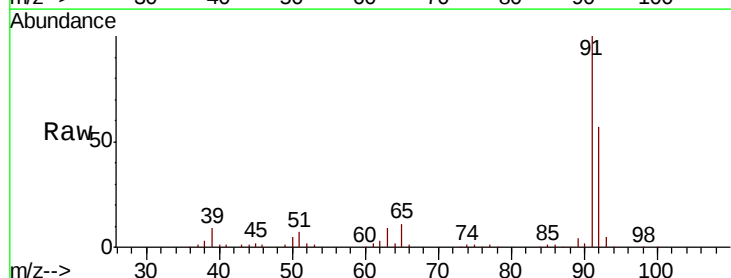
Acq: 11 Sep 2018 17:24

Tgt Ion: 92 Resp: 73022

Ion Ratio Lower Upper

92 100

91 175.0 141.1 211.7



Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0

80000

60000

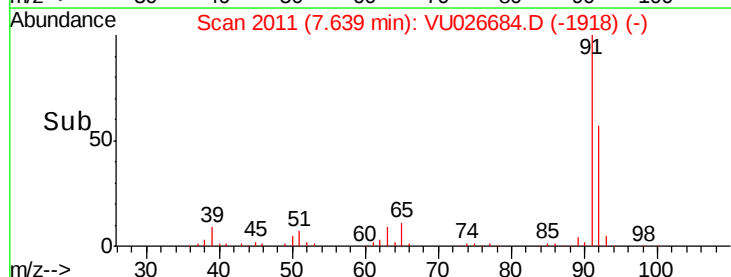
40000

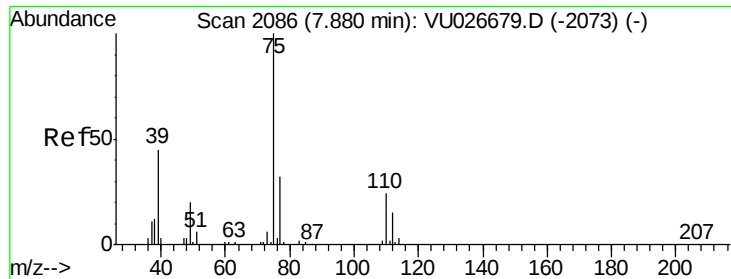
20000

0

7.55 7.60 7.65 7.70 7.75

Time-->





#53

t-1,3-Dichloropropene

Concen: 20.55 ug/l

RT: 7.88 min Scan# 2087

Delta R.T. 0.00 min

Lab File: VU026684.D

Acq: 11 Sep 2018 17:24

Instrument :

MSVOA_U

ClientSampleId :

VU0912MBS01

Tot Ion: 75 Resp: 45872

Ion Ratio Lower Upper

75 100

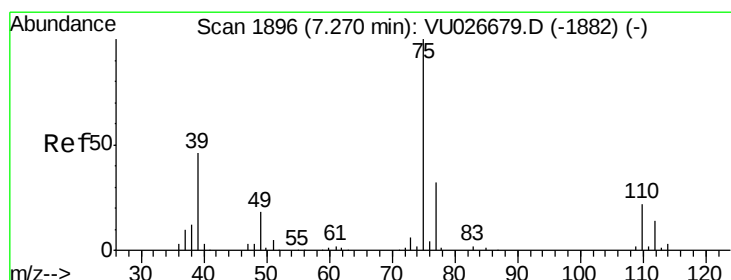
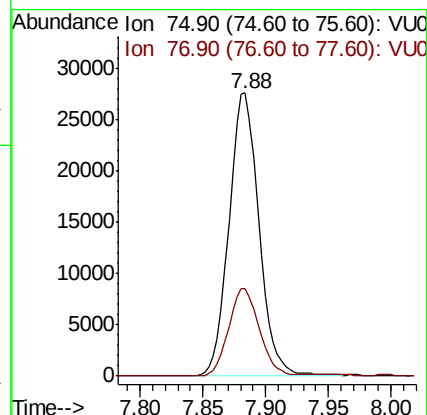
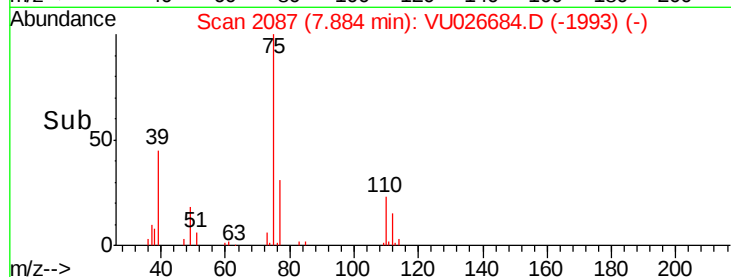
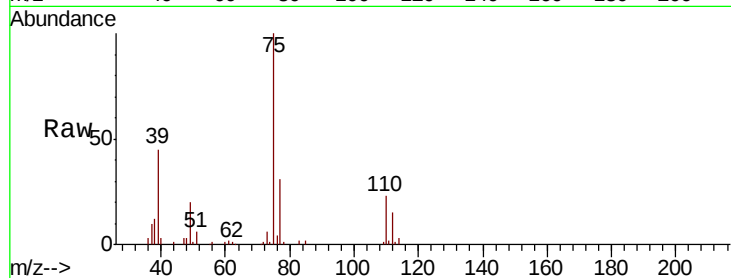
77 31.0 25.2 37.8

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 20.73 ug/l

RT: 7.27 min Scan# 1897

Delta R.T. 0.00 min

Lab File: VU026684.D

Acq: 11 Sep 2018 17:24

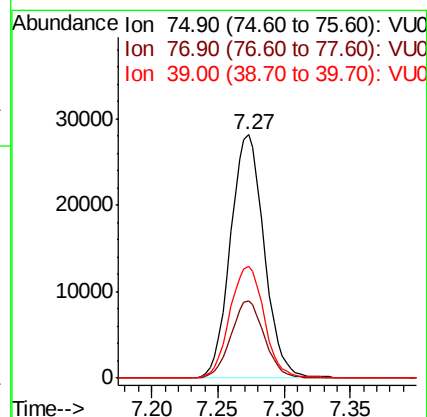
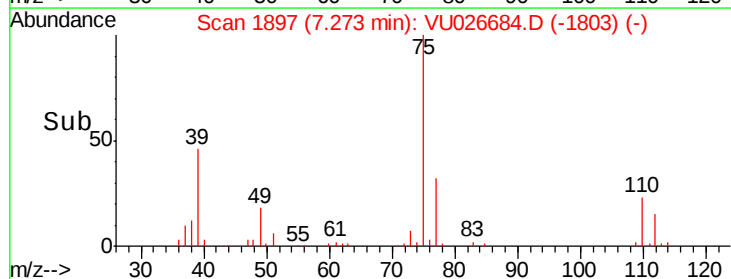
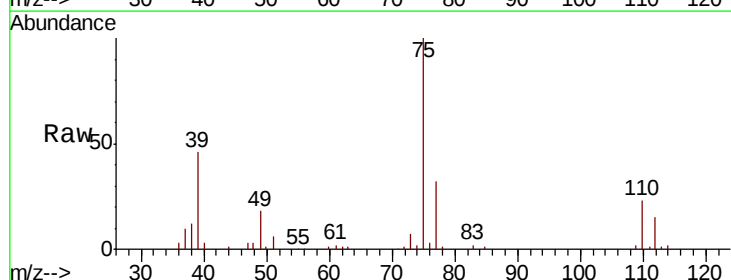
Tgt Ion: 75 Resp: 49710

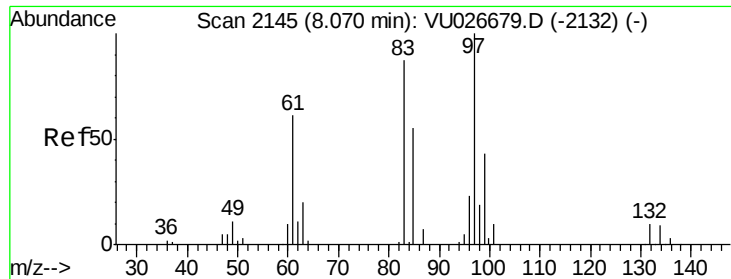
Ion Ratio Lower Upper

75 100

77 32.0 25.5 38.3

39 46.0 37.0 55.6





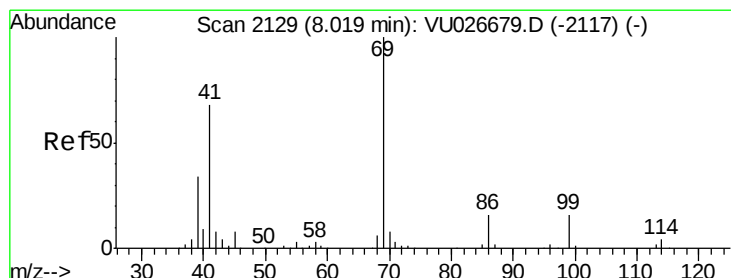
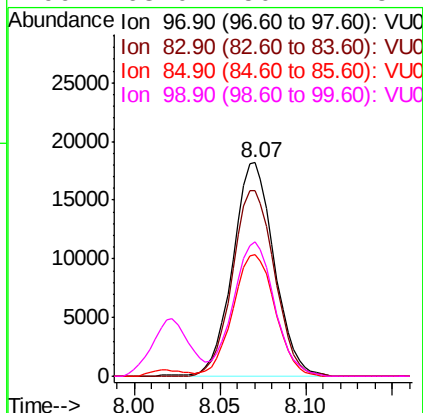
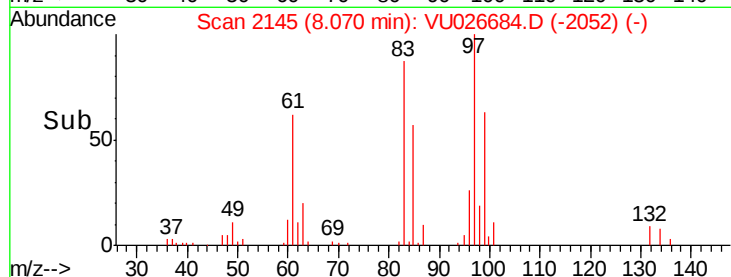
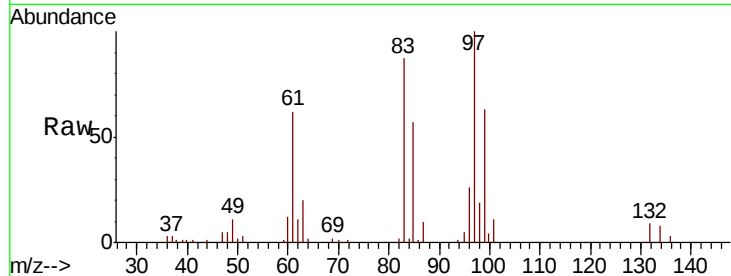
#55
 1,1,2-Trichloroethane
 Concen: 20.49 ug/l
 RT: 8.07 min Scan# 2145
 Delta R.T. 0.00 min
 Lab File: VU026684.D
 Acq: 11 Sep 2018 17:24

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0912MBS01

Tot Ion:	97	Resp:	30471
Ion	Ratio	Lower	Upper
97	100		
83	87.0	69.3	103.9
85	57.2	45.9	68.9
99	63.0	50.1	75.1

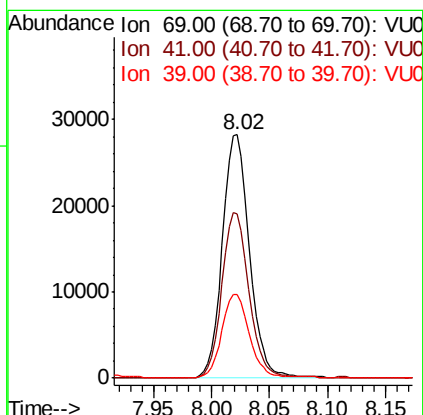
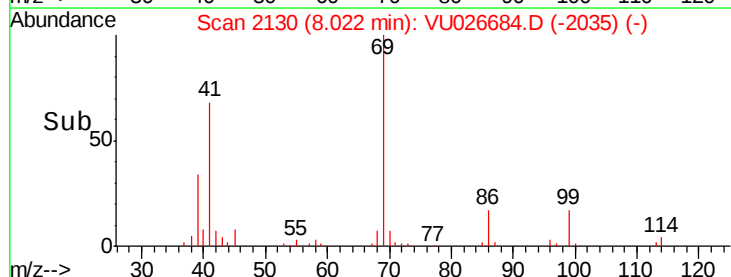
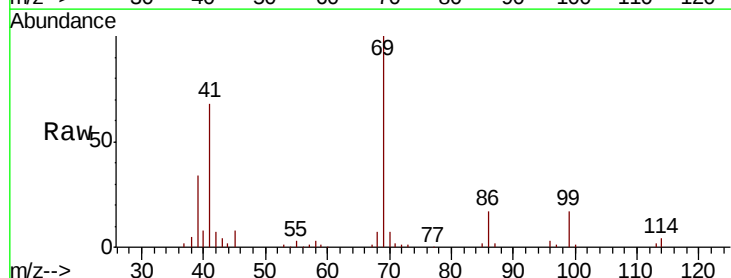
Manual Integrations
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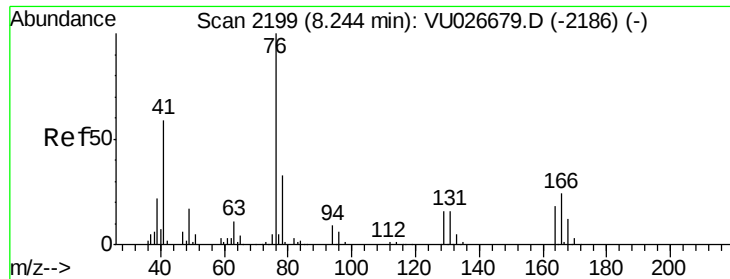
MMDadoda
 9/13/2018 4:48:57 PM



#56
 Ethyl methacrylate
 Concen: 20.07 ug/l
 RT: 8.02 min Scan# 2130
 Delta R.T. 0.00 min
 Lab File: VU026684.D
 Acq: 11 Sep 2018 17:24

Tgt Ion:	69	Resp:	45757
Ion	Ratio	Lower	Upper
69	100		
41	68.5	54.2	81.2
39	35.1	28.4	42.6





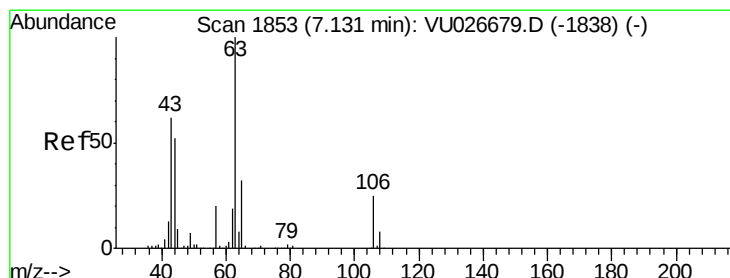
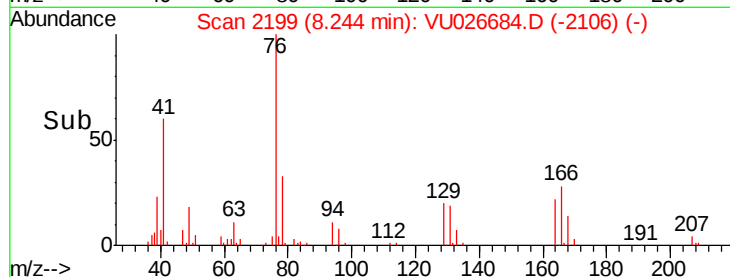
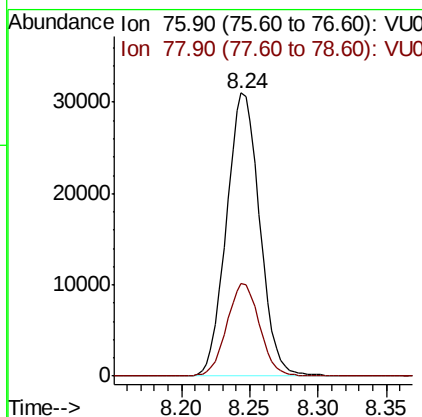
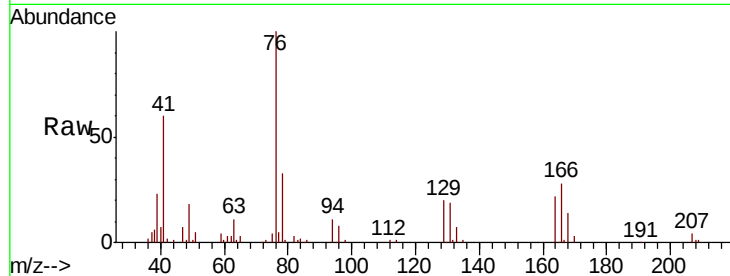
#57
 1,3-Dichloropropane
 Concen: 20.67 ug/l
 RT: 8.24 min Scan# 2199
 Delta R.T. 0.00 min
 Lab File: VU026684.D
 Acq: 11 Sep 2018 17:24

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0912MBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.0	39.0

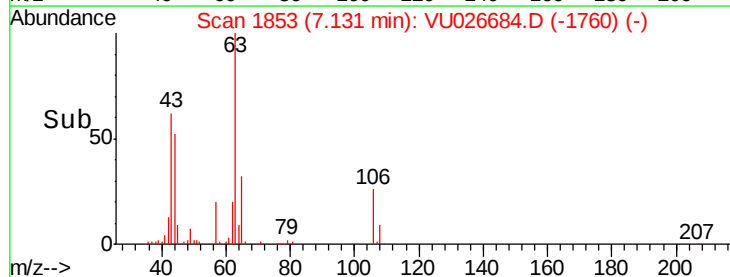
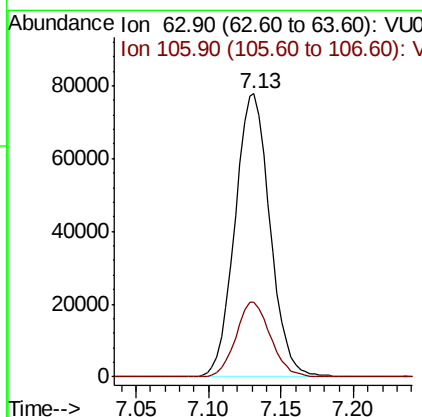
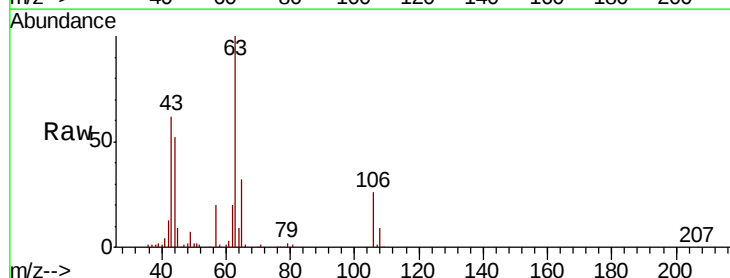
Manual Integrations
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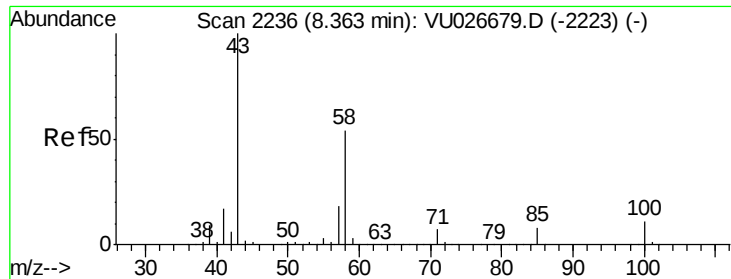
MMDadoda
 9/13/2018 4:48:57 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 114.46 ug/l
 RT: 7.13 min Scan# 1853
 Delta R.T. 0.00 min
 Lab File: VU026684.D
 Acq: 11 Sep 2018 17:24

Tgt Ion	Ratio	Lower	Upper
63	100		
106	26.0	20.5	30.7





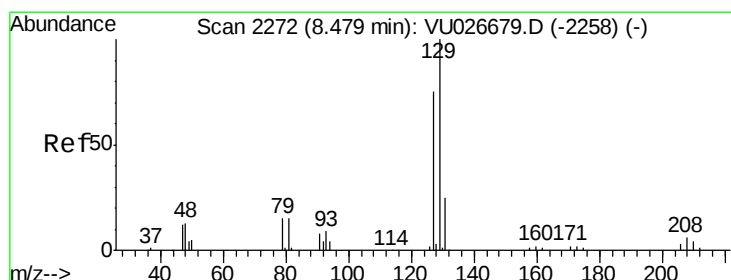
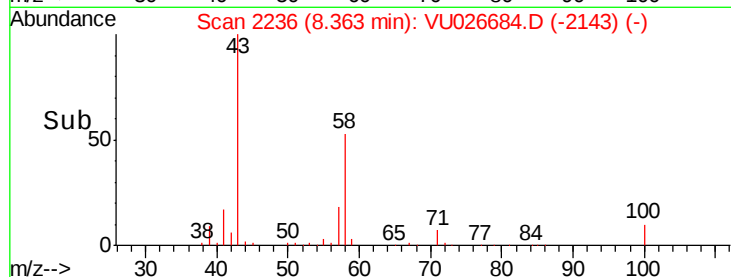
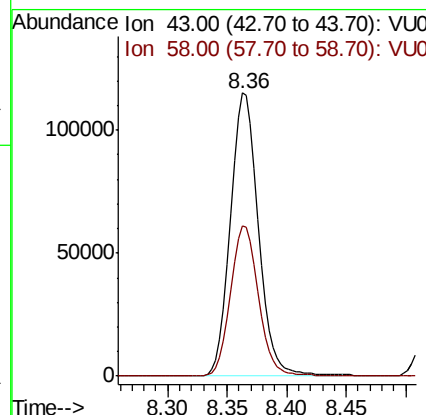
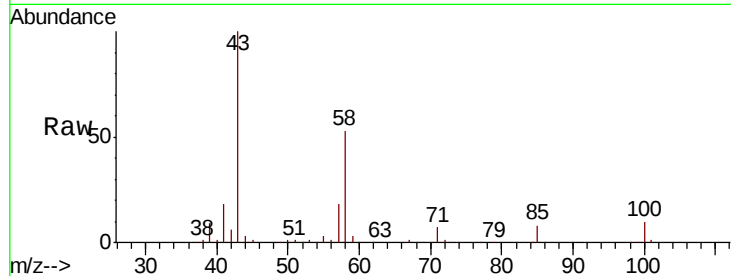
#59
 2-Hexanone
 Concen: 103.95 ug/l
 RT: 8.36 min Scan# 2236
 Delta R.T. 0.00 min
 Lab File: VU026684.D
 Acq: 11 Sep 2018 17:24

Instrument :
 MSVOA_U
 ClientSampled :
 VU0912MBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	53.3	26.9	80.7

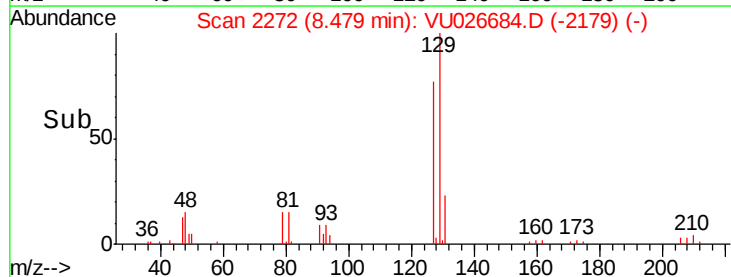
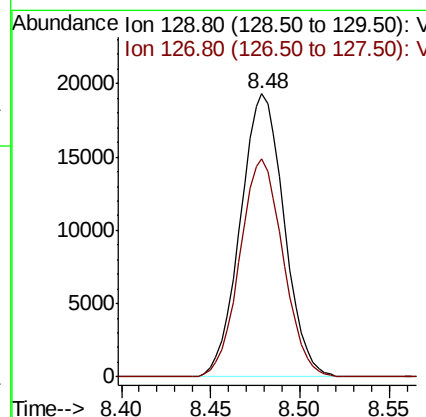
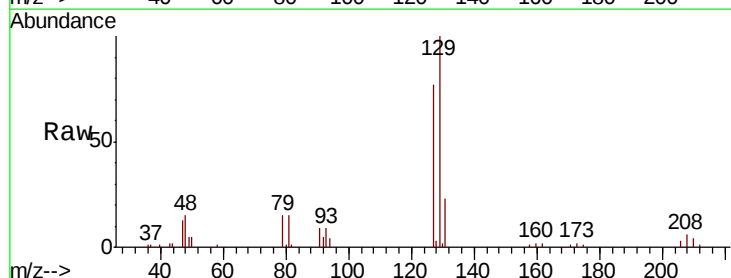
Manual Integrations
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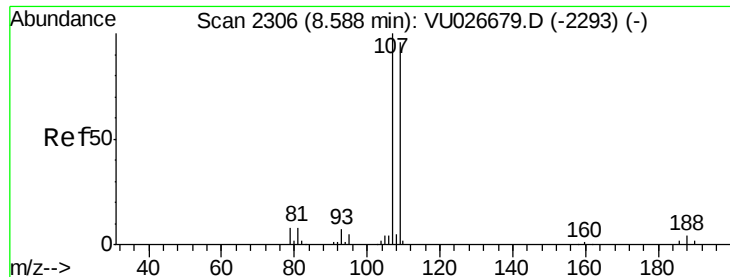
MMDadoda
 9/13/2018 4:48:57 PM



#60
 Dibromochloromethane
 Concen: 20.45 ug/l
 RT: 8.48 min Scan# 2272
 Delta R.T. 0.00 min
 Lab File: VU026684.D
 Acq: 11 Sep 2018 17:24

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.1	38.3	114.9





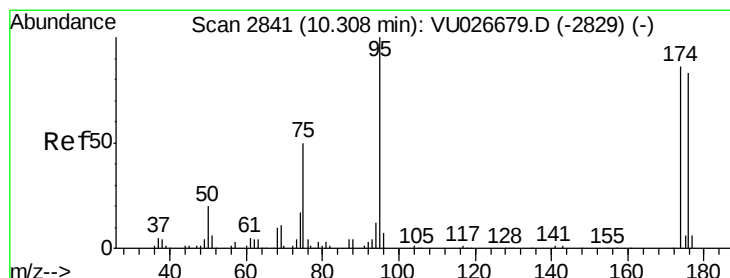
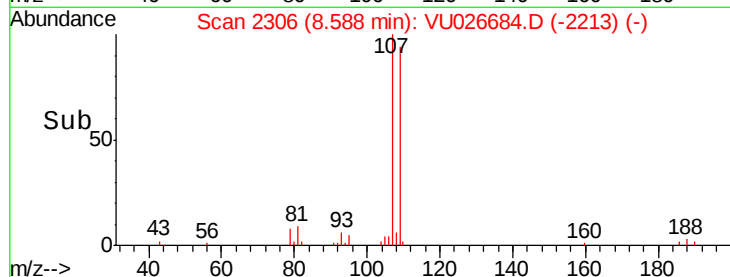
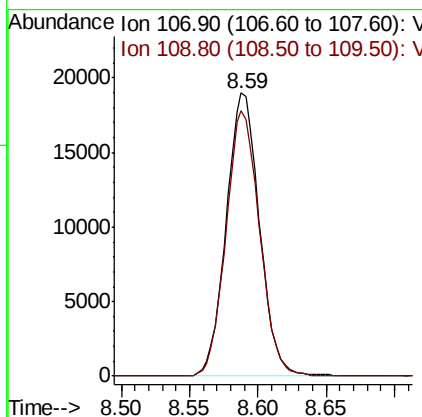
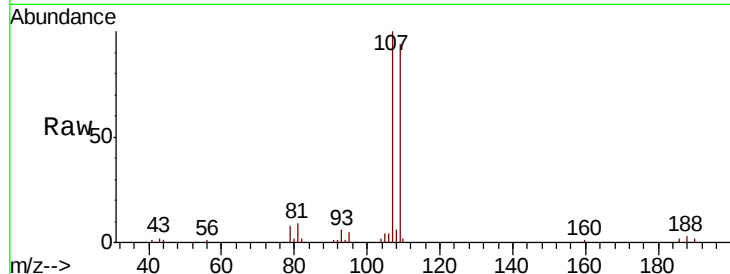
#61
 1,2-Dibromoethane
 Concen: 19.92 ug/l
 RT: 8.59 min Scan# 2306
 Delta R.T. 0.00 min
 Lab File: VU026684.D
 Acq: 11 Sep 2018 17:24

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0912MBS01

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.3	75.7	113.5

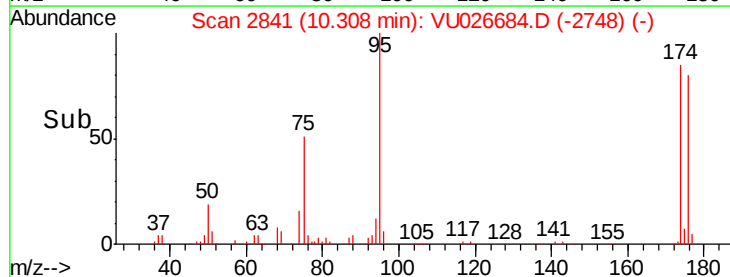
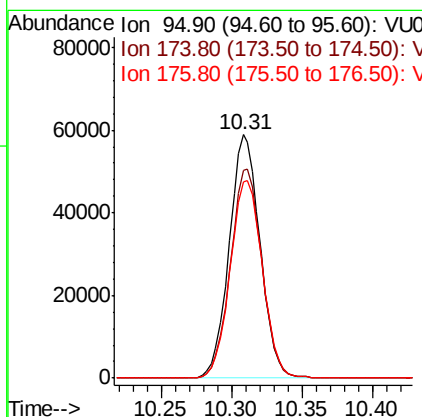
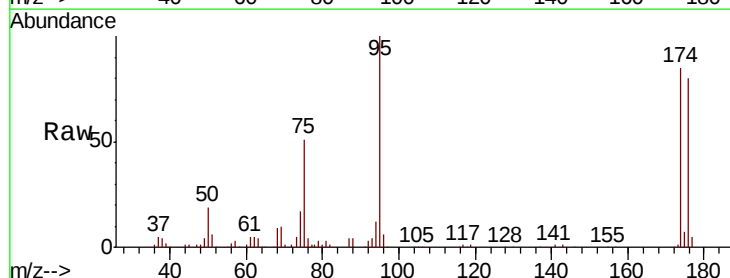
Manual Integrations
 APPROVED

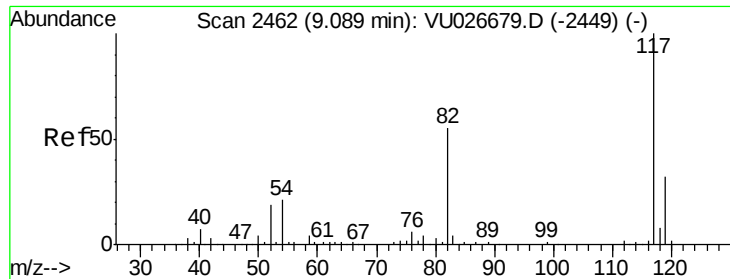
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 9/13/2018 4:48:57 PM



#62
 4-Bromofluorobenzene
 Concen: 49.32 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. 0.00 min
 Lab File: VU026684.D
 Acq: 11 Sep 2018 17:24

Tgt Ion	Ratio	Lower	Upper
95	100		
174	87.4	0.0	172.8
176	85.0	0.0	168.6





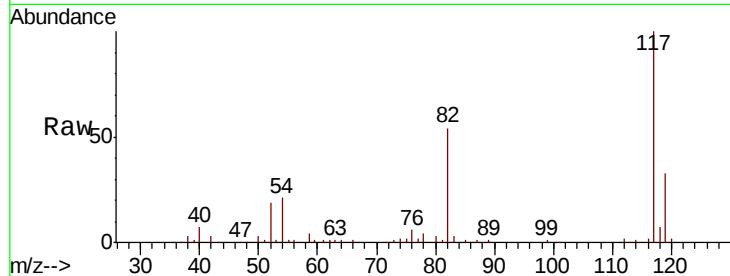
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2463
Delta R.T. 0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Instrument :
MSVOA_U
ClientSampled :
VU0912MBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	158816		
82	54.1		44.1	66.1
119	33.1		25.7	38.5

Manual Integrations
APPROVED

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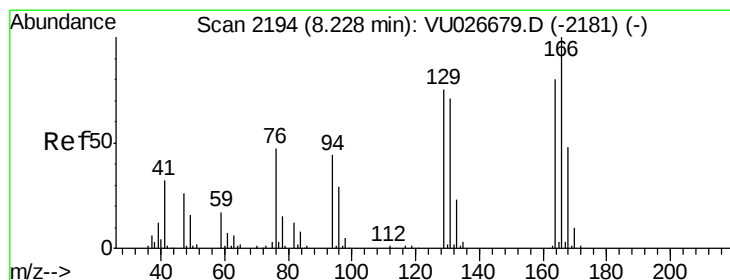
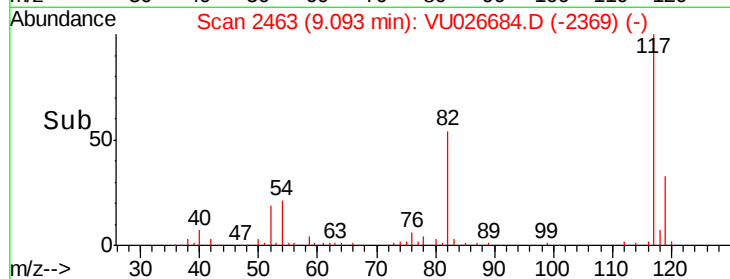
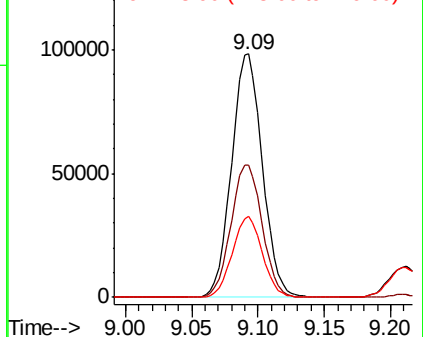


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 20.82 ug/l
RT: 8.23 min Scan# 2194
Delta R.T. 0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	26317		
166	124.6		100.5	150.7
129	94.7		75.3	112.9
131	89.2		71.4	107.2

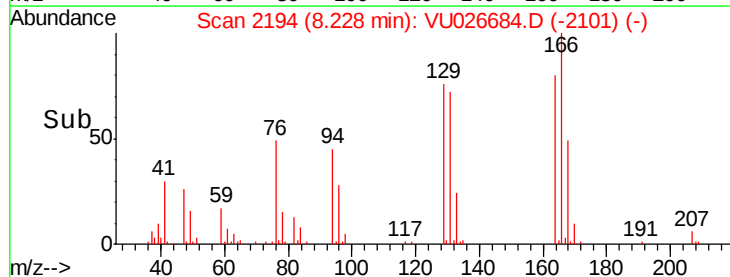
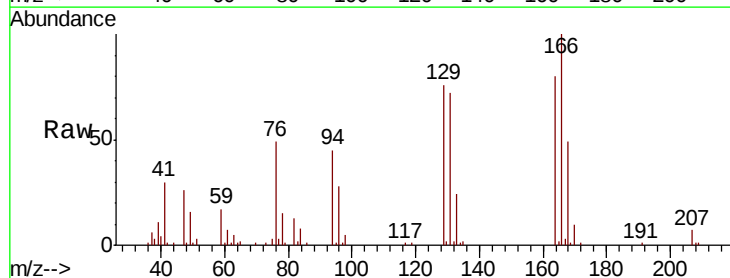
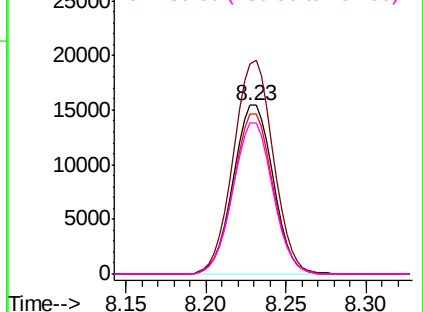
Abundance

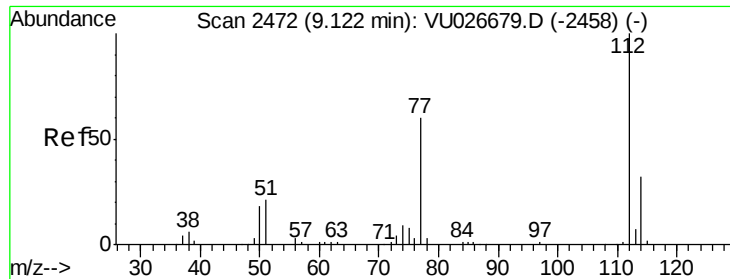
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





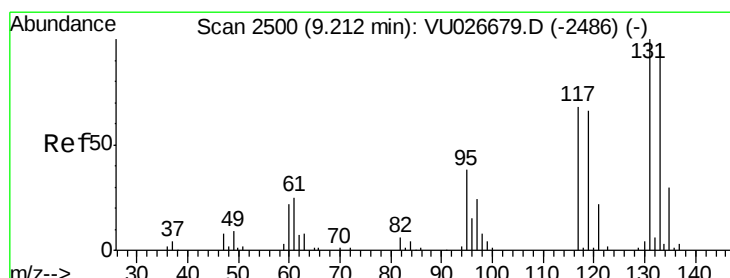
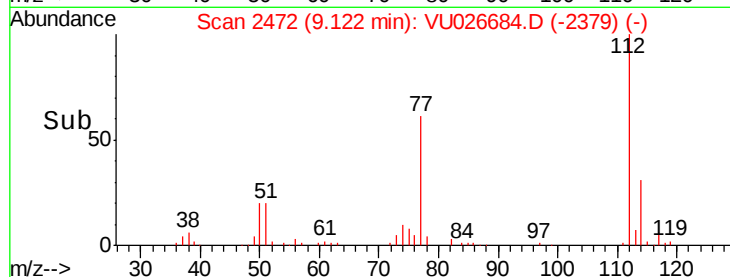
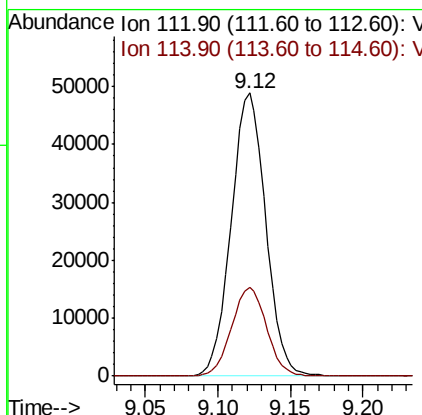
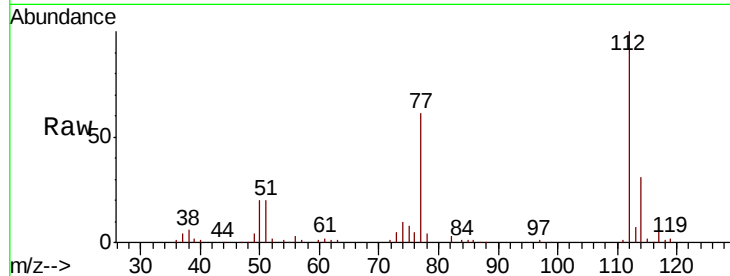
#65
Chlorobenzene
Concen: 20.47 ug/l
RT: 9.12 min Scan# 2472
Delta R.T. 0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Instrument :
MSVOA_U
ClientSampleId :
VU0912MBS01

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.2	25.5	38.3

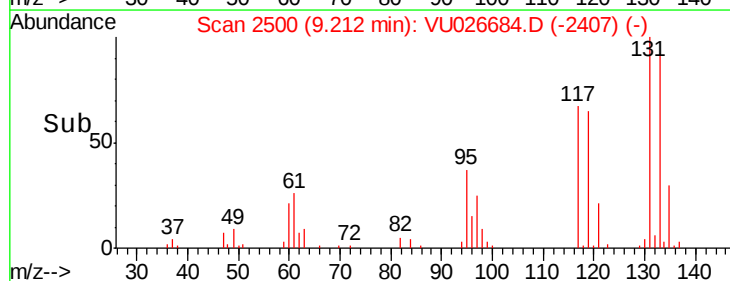
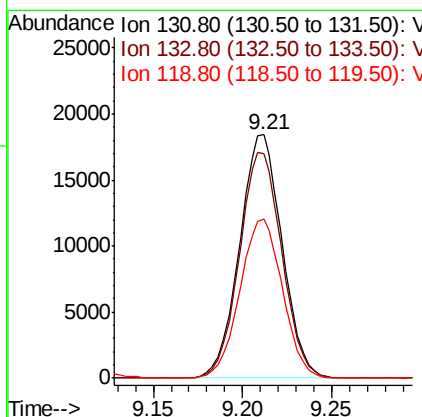
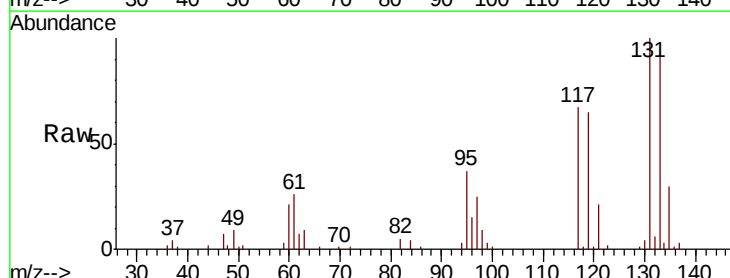
Manual Integrations
APPROVED

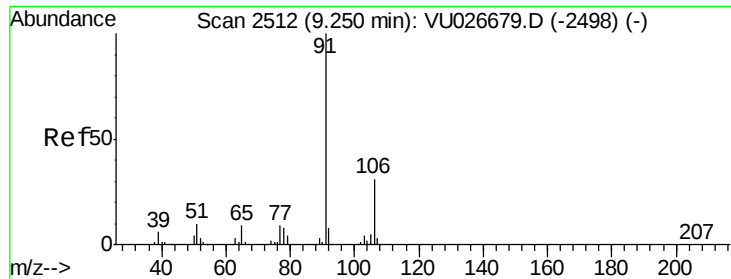
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 21.09 ug/l
RT: 9.21 min Scan# 2500
Delta R.T. 0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Tgt Ion	Ratio	Lower	Upper
131	100		
133	92.7	48.9	146.6
119	65.4	32.7	98.1





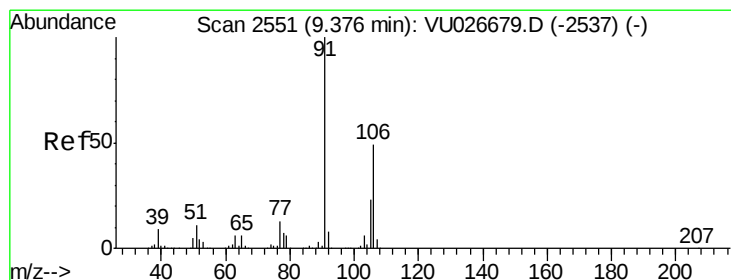
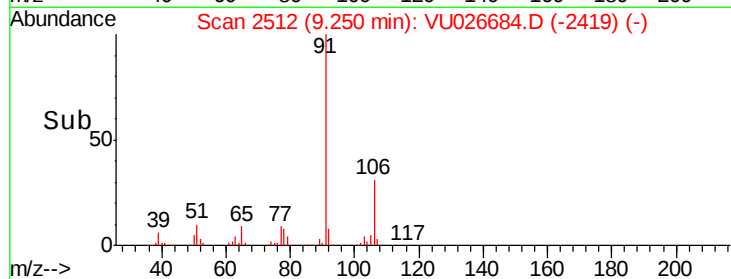
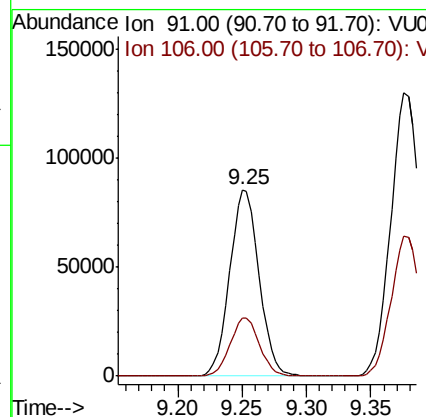
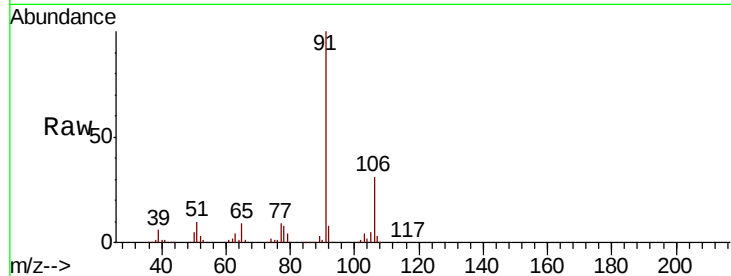
#67
Ethyl Benzene
Concen: 20.77 ug/l
RT: 9.25 min Scan# 2512
Delta R.T. 0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Instrument :
MSVOA_U
ClientSampleId :
VU0912MBS01

Tot Ion	Ratio	Lower	Upper
91	100		
106	31.3	25.0	37.4

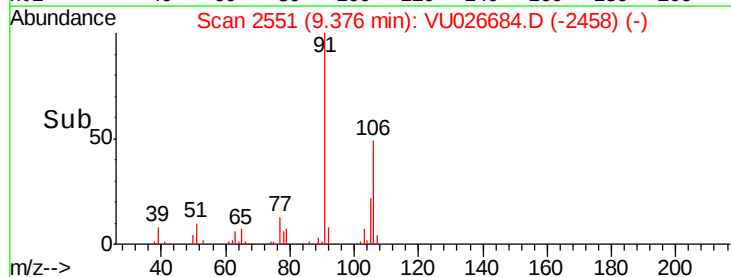
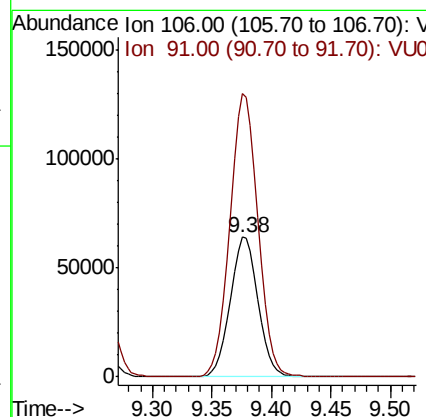
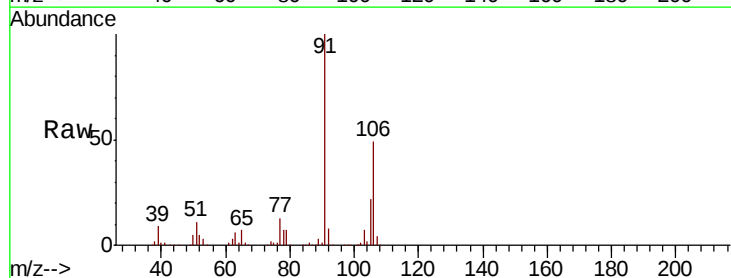
Manual Integrations
APPROVED

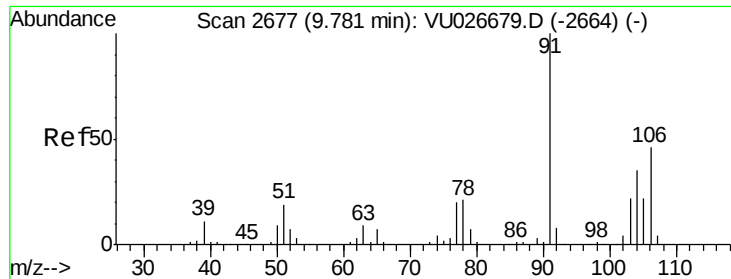
MMDadoda
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#68
m/p-Xylenes
Concen: 42.07 ug/l
RT: 9.38 min Scan# 2551
Delta R.T. 0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Tgt Ion	Ratio	Lower	Upper
106	100		
91	204.6	162.1	243.1





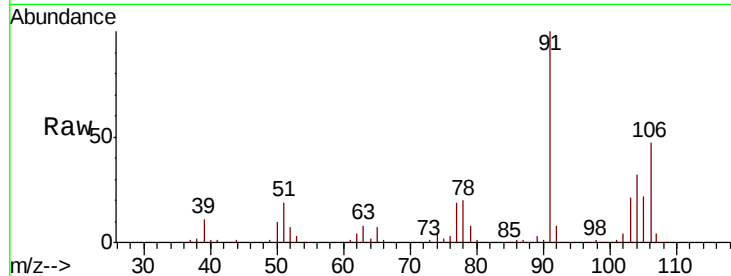
#69
o-Xylene
Concen: 20.02 ug/l
RT: 9.78 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Instrument :
MSVOA_U
ClientSampleId :
VU0912MBS01

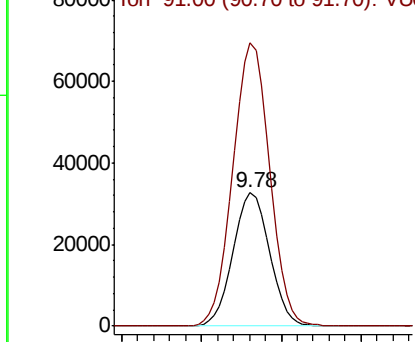
Tot Ion	Ratio	Lower	Upper
106	100		
91	213.8	106.9	320.8

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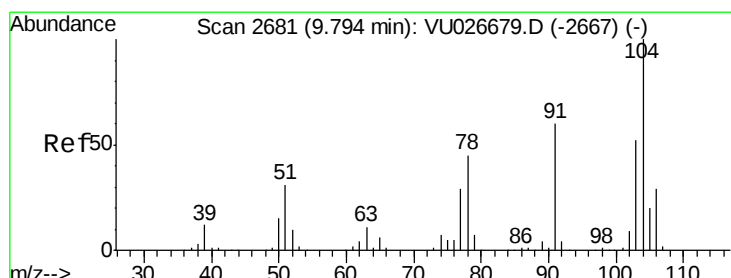
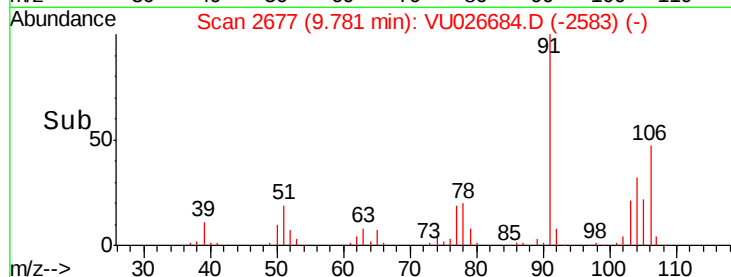
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Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

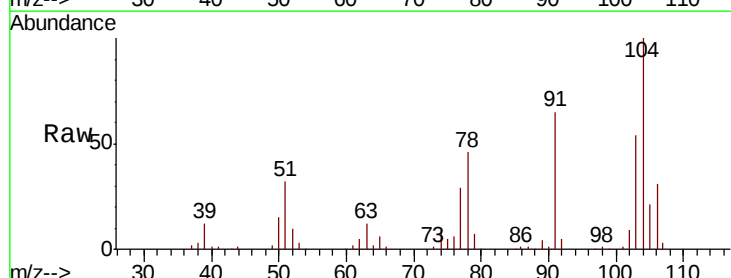


Time--> 9.70 9.75 9.80 9.85

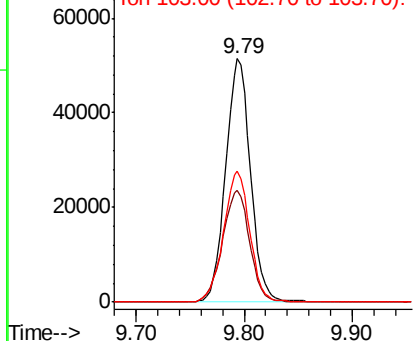


#70
Styrene
Concen: 19.72 ug/l
RT: 9.79 min Scan# 2681
Delta R.T. 0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

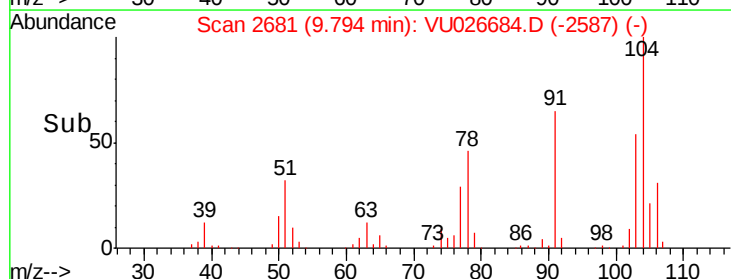
Tgt Ion	Ratio	Lower	Upper
104	100		
78	50.1	39.4	59.2
103	56.6	44.5	66.7

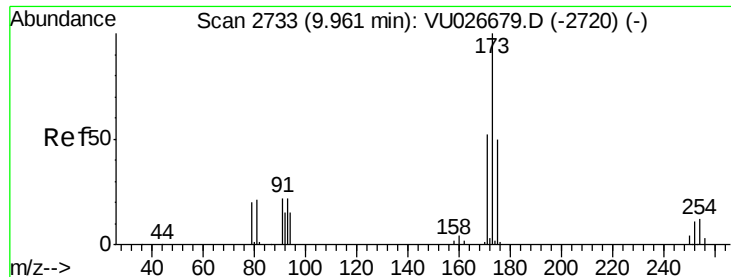


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0
Ion 103.00 (102.70 to 103.70): V



Time--> 9.70 9.80 9.90





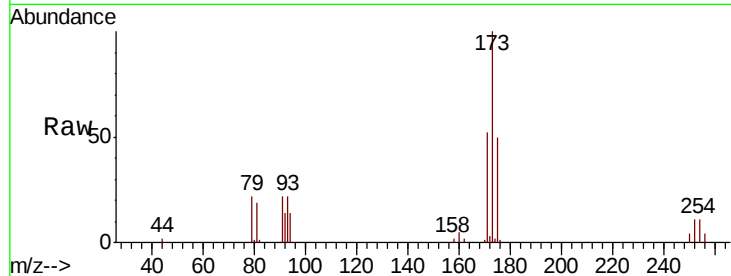
#71
Bromoform
Concen: 20.64 ug/l
RT: 9.96 min Scan# 2733
Delta R.T. 0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Instrument :
MSVOA_U
ClientSampleId :
VU0912MBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.2	24.7	74.1
254	0.0	0.0	0.0

Manual Integrations
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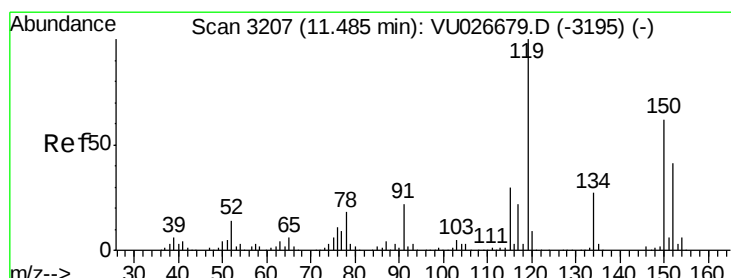
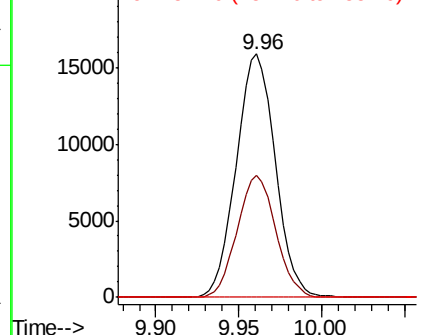
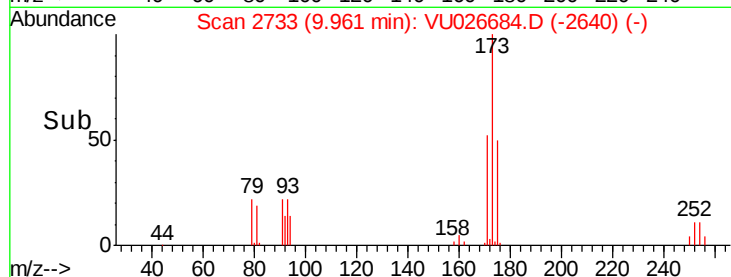


Abundance

Ion 172.70 (172.40 to 173.40): V

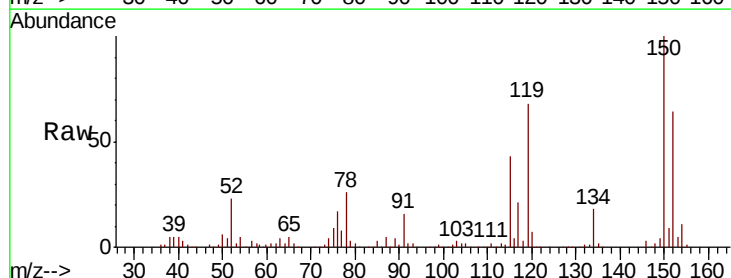
Ion 174.70 (174.40 to 175.40): V

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: VU026684.D
Acq: 11 Sep 2018 17:24

Tgt Ion	Ratio	Lower	Upper
152	100		
115	68.0	40.4	121.1
150	164.3	0.0	345.2

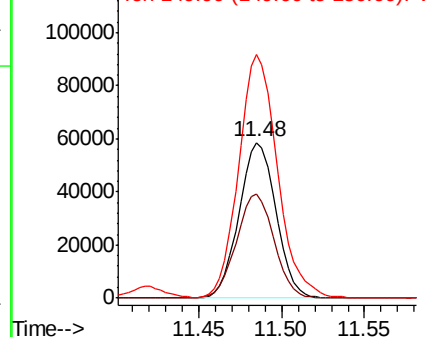
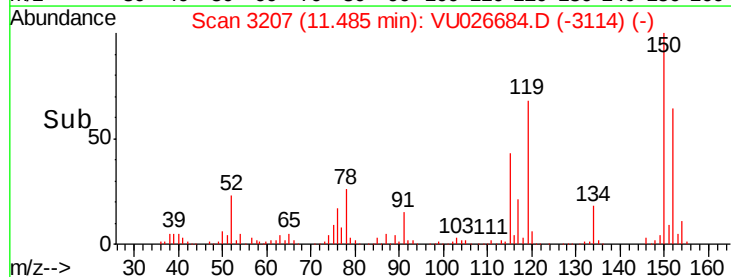


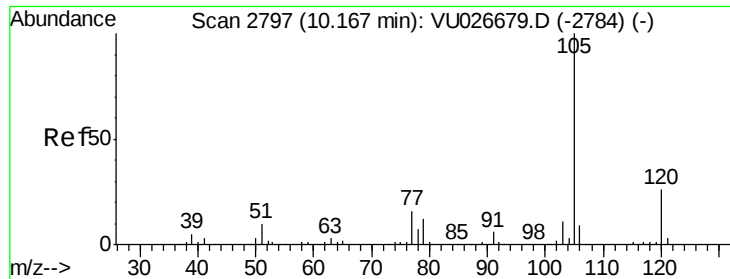
Abundance

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: 21.78 ug/l

RT: 10.17 min Scan# 2798

Delta R.T. 0.00 min

Lab File: VU026684.D

Acq: 11 Sep 2018 17:24

Instrument :

MSVOA_U

ClientSampleId :

VU0912MBS01

Tot Ion: 105 Resp: 134884

Ion Ratio Lower Upper

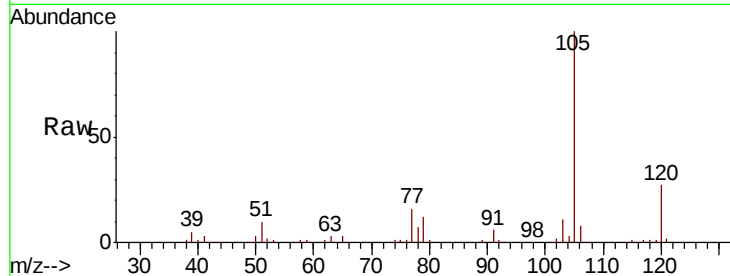
105 100

120 26.8 13.3 39.9

Manual Integrations
APPROVED

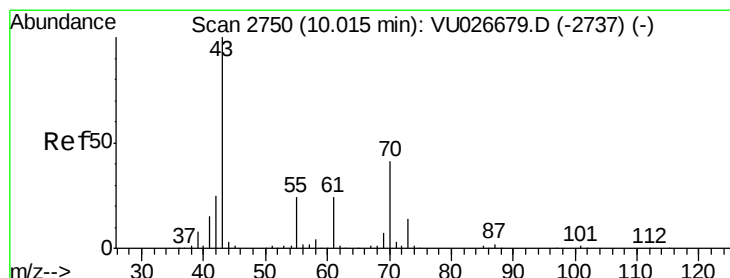
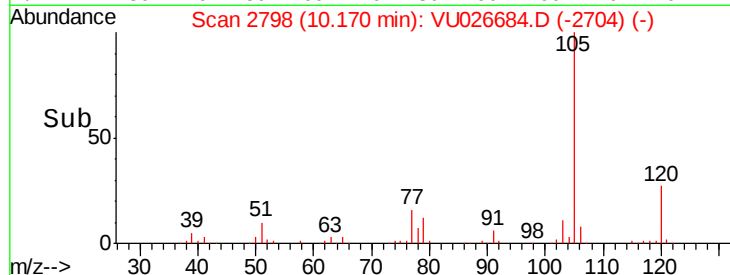
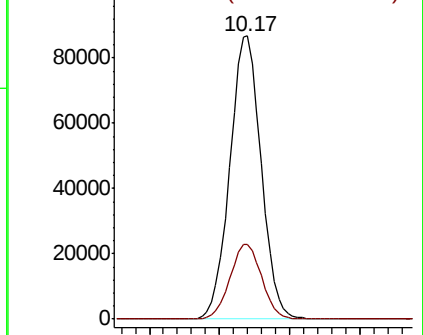
MMDadoda

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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: 21.54 ug/l

RT: 10.02 min Scan# 2750

Delta R.T. 0.00 min

Lab File: VU026684.D

Acq: 11 Sep 2018 17:24

Tgt Ion: 43 Resp: 62979

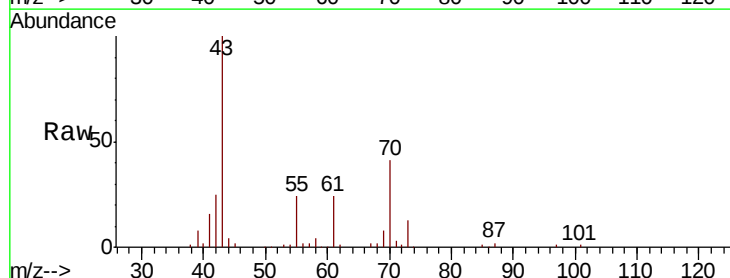
Ion Ratio Lower Upper

43 100

70 41.1 32.6 48.8

55 24.5 19.1 28.7

61 23.2 19.4 29.0

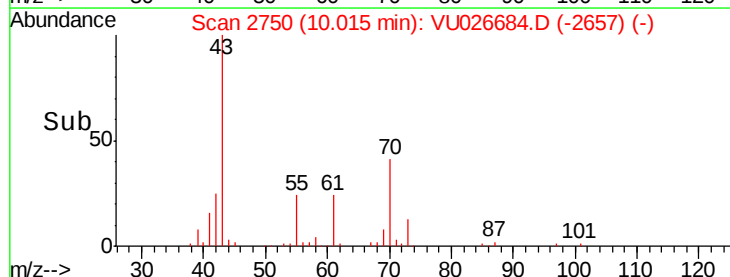
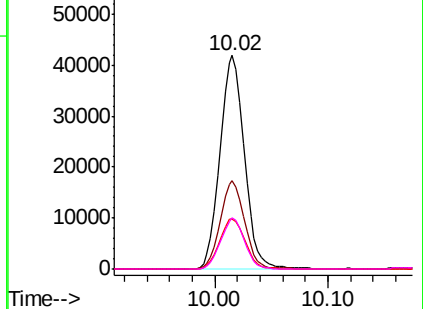


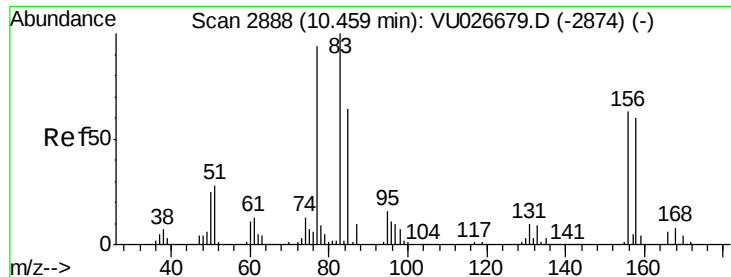
Abundance Ion 43.00 (42.70 to 43.70): VU0

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





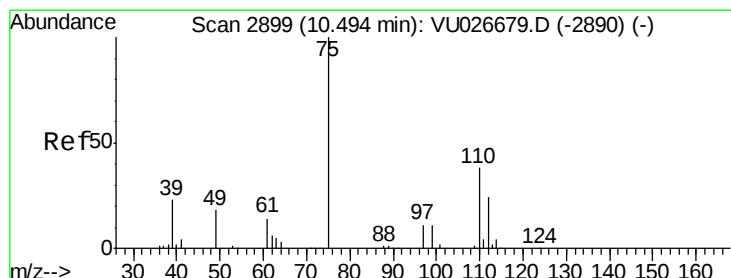
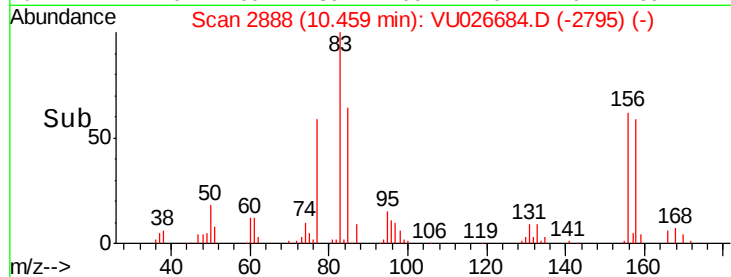
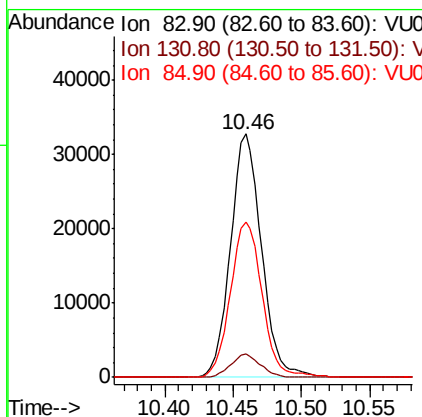
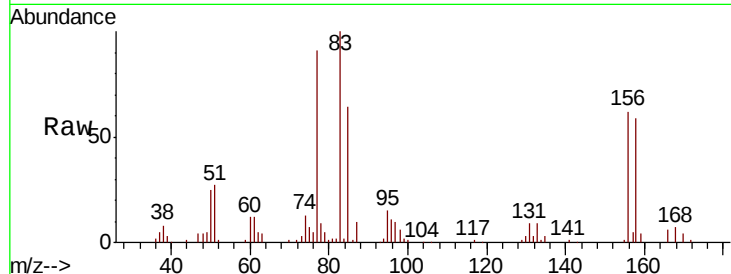
#75
 1,1,2,2-Tetrachloroethane
 Concen: 20.55 ug/l
 RT: 10.46 min Scan# 2888
 Delta R.T. 0.00 min
 Lab File: VU026684.D
 Acq: 11 Sep 2018 17:24

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0912MBS01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	51881		
131	9.1	4.9	14.6	
85	65.1	32.3	96.9	

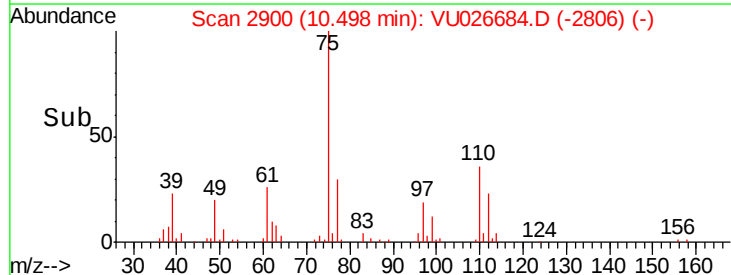
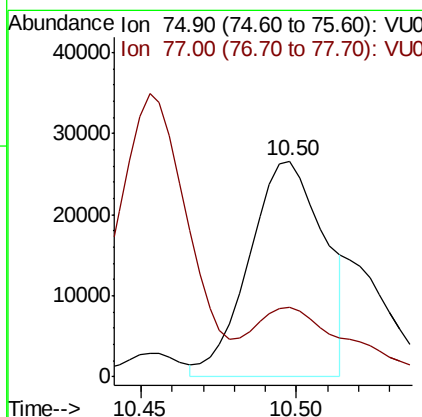
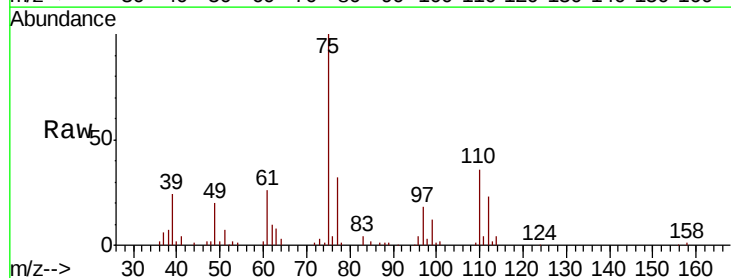
Manual Integrations
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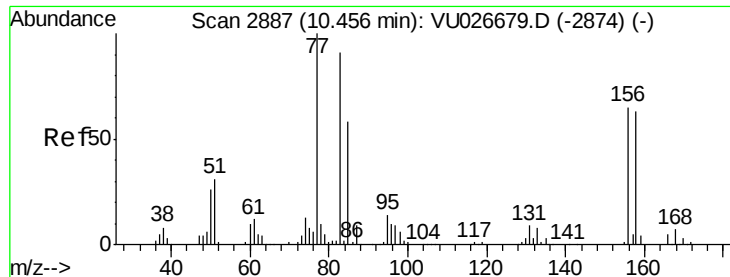
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#76
 1,2,3-Trichloropropane
 Concen: 21.86 ug/l m
 RT: 10.50 min Scan# 2900
 Delta R.T. 0.00 min
 Lab File: VU026684.D
 Acq: 11 Sep 2018 17:24

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	44515		
77	40.2	21.1	63.1	





#77

Bromobenzene

Concen: 21.31 ug/l

RT: 10.46 min Scan# 2887

Delta R.T. 0.00 min

Lab File: VU026684.D

Acq: 11 Sep 2018 17:24

Instrument :

MSVOA_U

ClientSampleId :

VU0912MBS01

Tot Ion:156 Resp: 35867

Ion Ratio Lower Upper

156 100

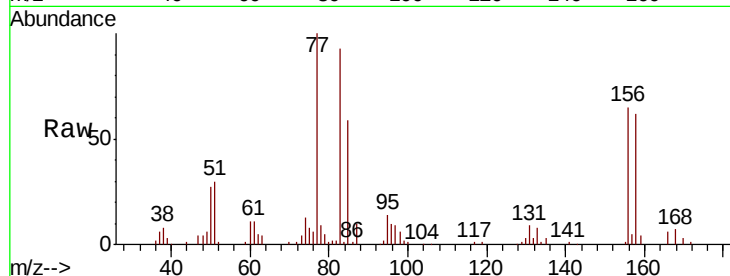
77 152.6 77.6 232.9

158 95.8 48.9 146.6

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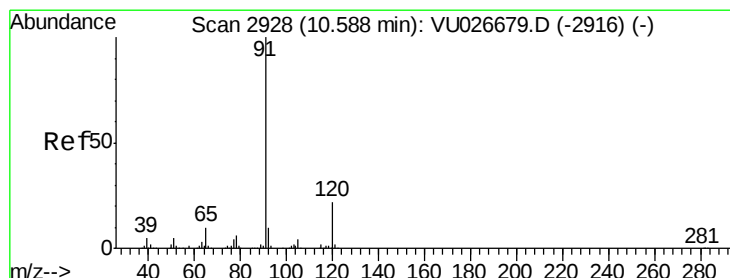
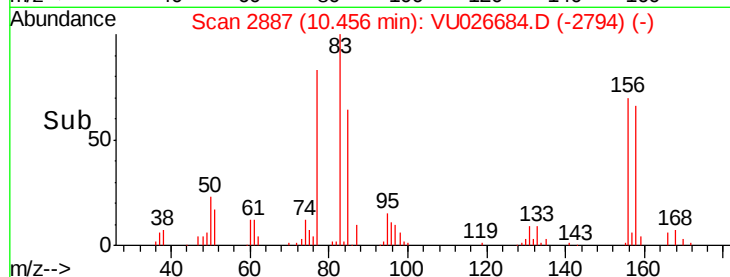
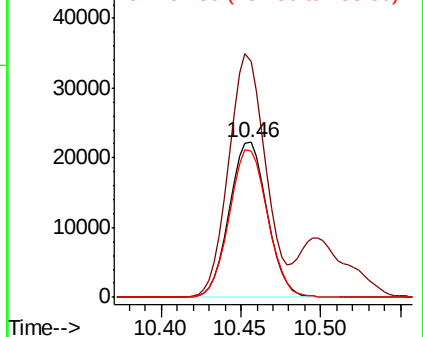
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VU0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 21.93 ug/l

RT: 10.59 min Scan# 2928

Delta R.T. 0.00 min

Lab File: VU026684.D

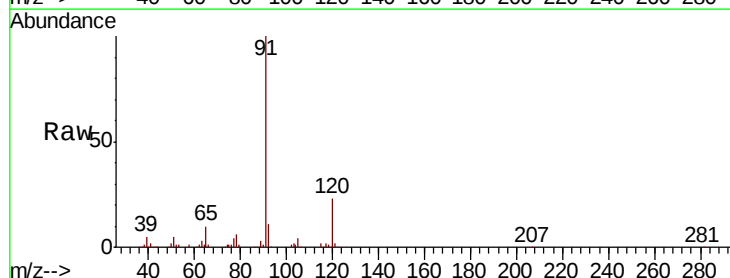
Acq: 11 Sep 2018 17:24

Tgt Ion: 91 Resp: 157955

Ion Ratio Lower Upper

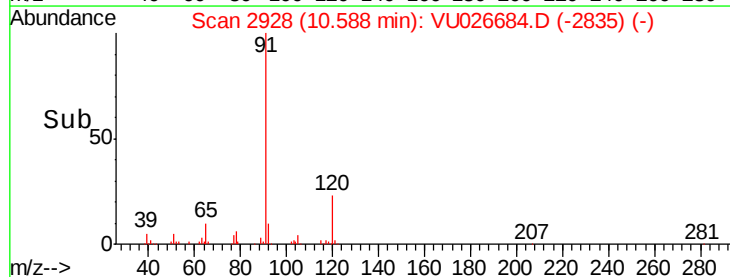
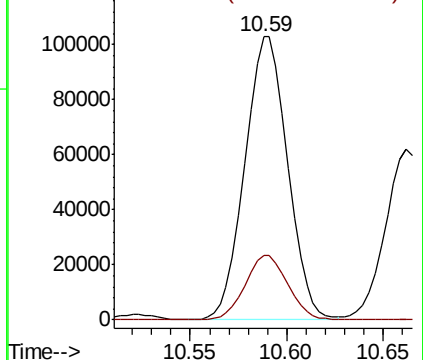
91 100

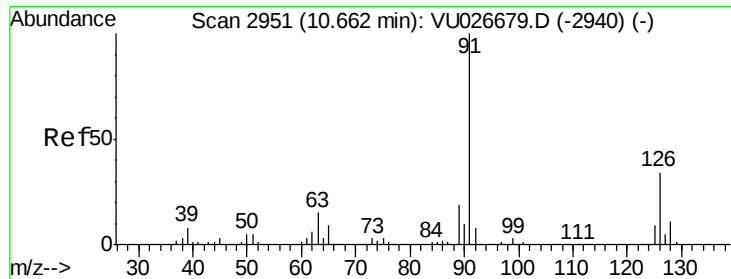
120 22.7 11.4 34.1



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 21.57 ug/l

RT: 10.66 min Scan# 2951

Delta R.T. 0.00 min

Lab File: VU026684.D

Acq: 11 Sep 2018 17:24

Instrument :

MSVOA_U

ClientSampleId :

VU0912MBS01

Tot Ion: 91 Resp: 96316

Ion Ratio Lower Upper

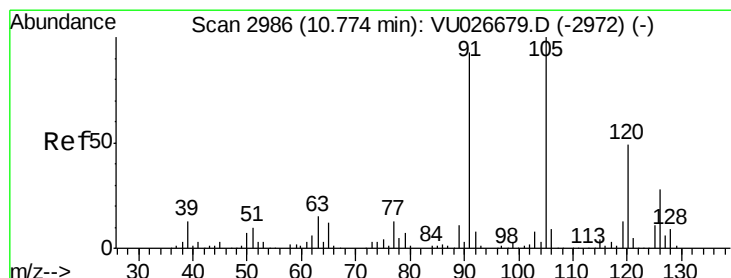
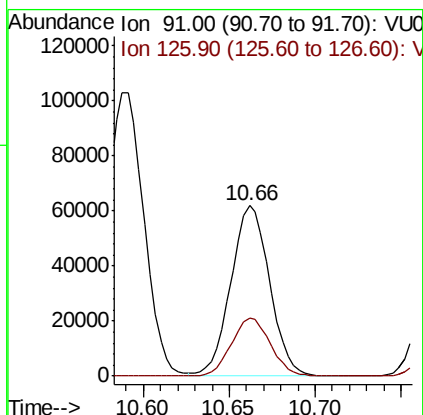
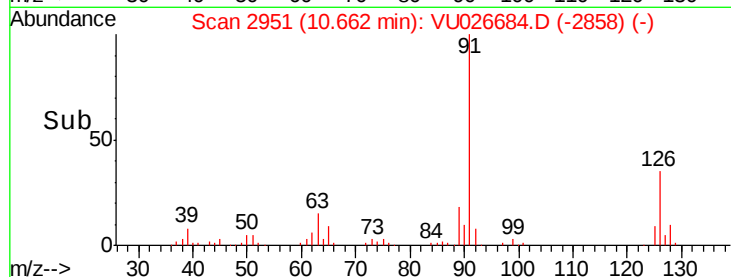
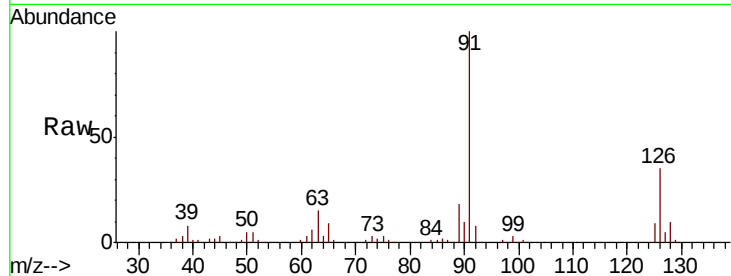
91 100

126 34.6 17.3 51.7

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#80

1,3,5-Trimethylbenzene

Concen: 21.91 ug/l

RT: 10.77 min Scan# 2986

Delta R.T. 0.00 min

Lab File: VU026684.D

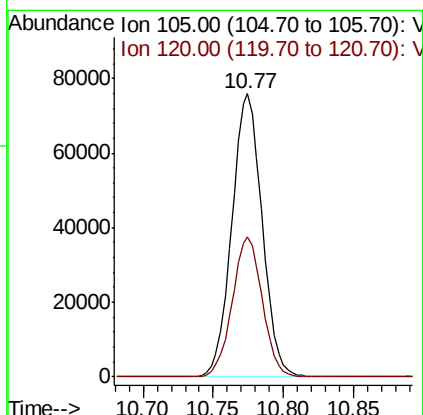
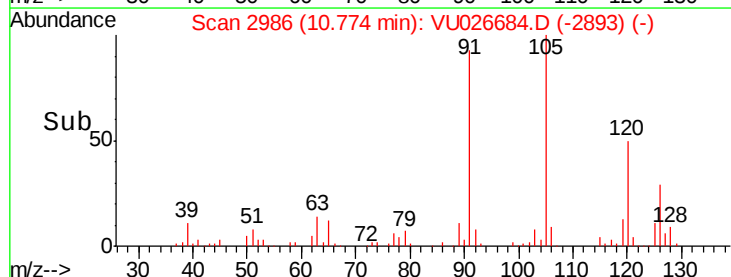
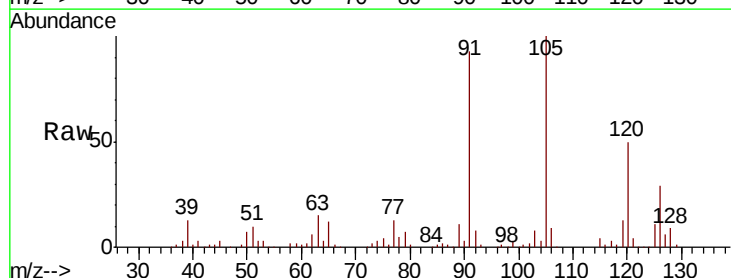
Acq: 11 Sep 2018 17:24

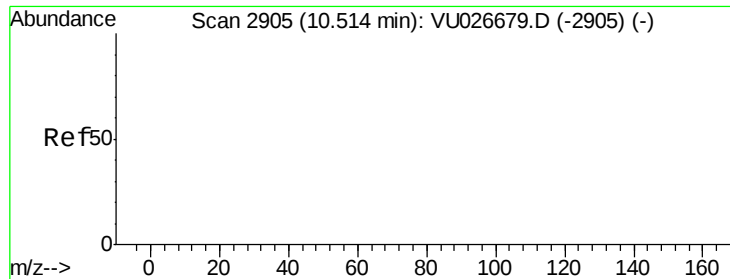
Tgt Ion:105 Resp: 114047

Ion Ratio Lower Upper

105 100

120 48.9 24.6 74.0





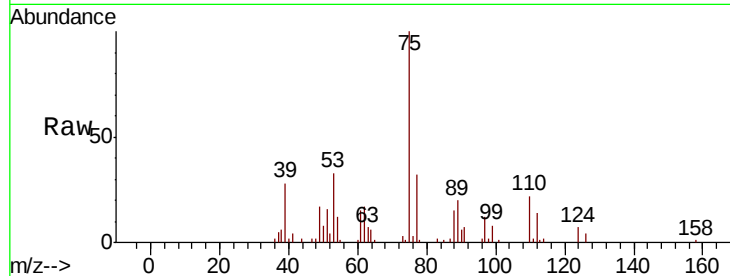
#81
trans-1,4-Dichloro-2-butene
Concen: 30.39 ug/l m
RT: 10.51 min Scan# 2904
Delta R.T. -0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Instrument :
MSVOA_U
ClientSampleId :
VU0912MBS01

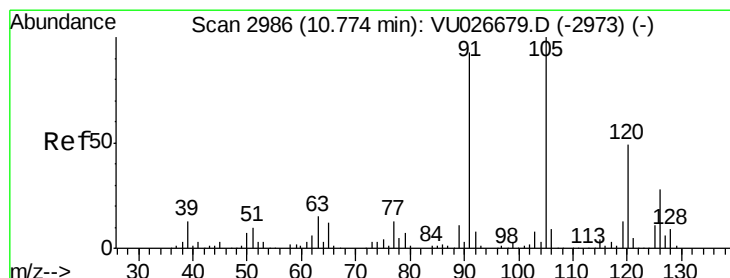
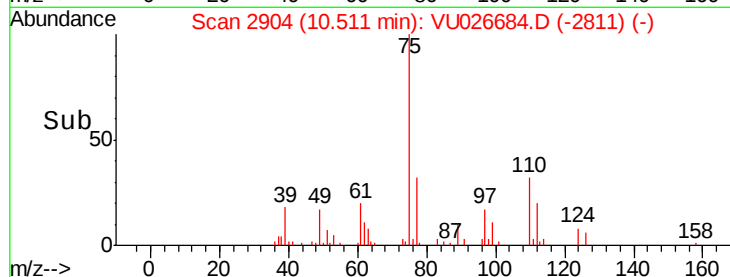
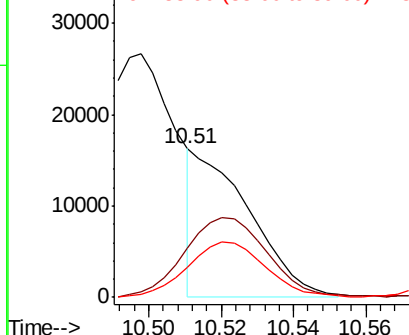
Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	0.0	0.0
89	0.0	0.0	0.0

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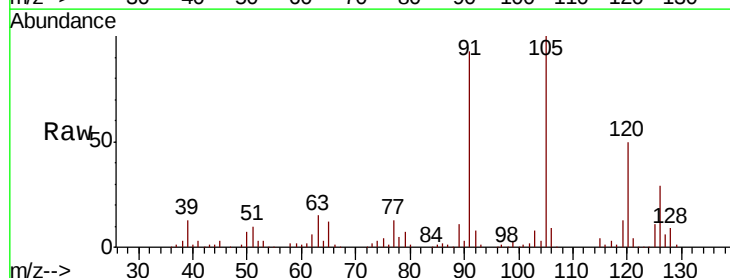


Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 53.00 (52.70 to 53.70): VU0
Ion 88.90 (88.60 to 89.60): VU0

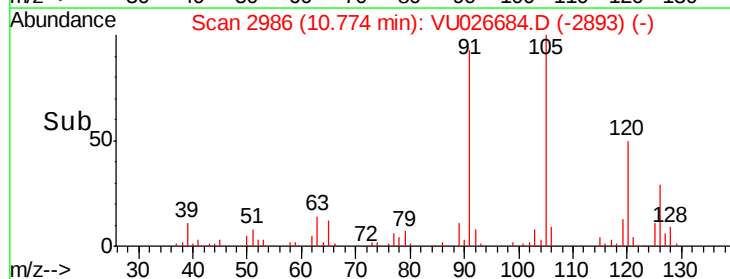
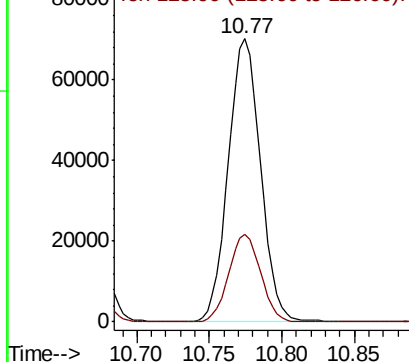


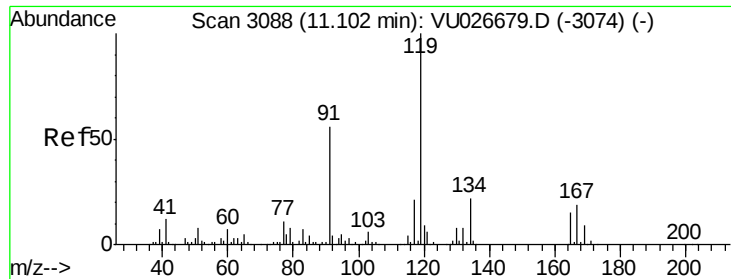
#82
4-Chlorotoluene
Concen: 21.53 ug/l
RT: 10.77 min Scan# 2986
Delta R.T. 0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Tgt Ion	Ratio	Lower	Upper
91	100		
126	30.6	15.2	45.5



Abundance Ion 91.00 (90.70 to 91.70): VU0
Ion 125.90 (125.60 to 126.60): V





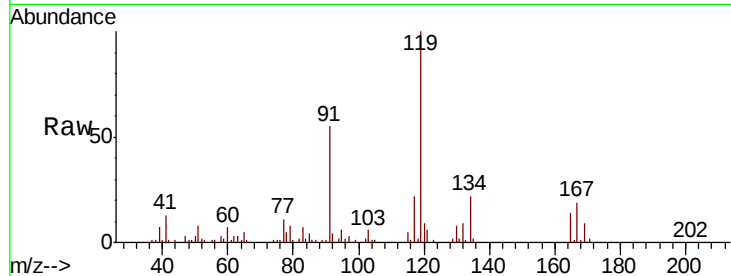
#83
tert-Butylbenzene
Concen: 21.70 ug/l
RT: 11.10 min Scan# 3088
Delta R.T. 0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Instrument :
MSVOA_U
ClientSampleId :
VU0912MBS01

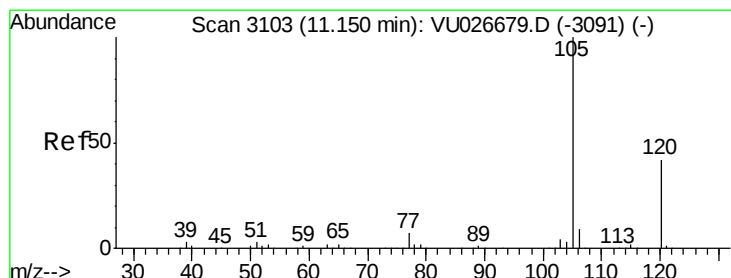
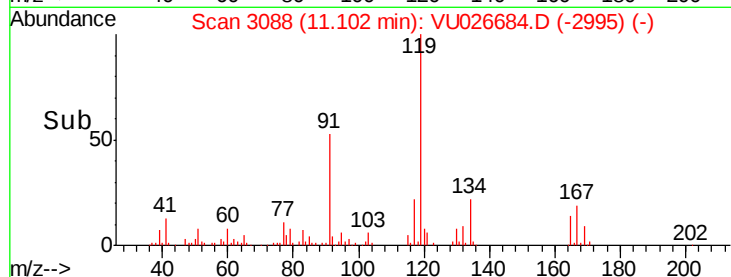
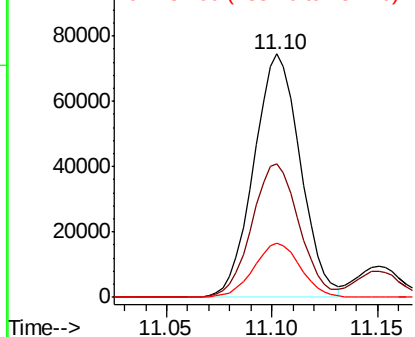
Tot Ion	Ratio	Resp	Lower	Upper
119	100	114653		
91	55.9	28.3	85.0	
134	22.3	11.2	33.5	

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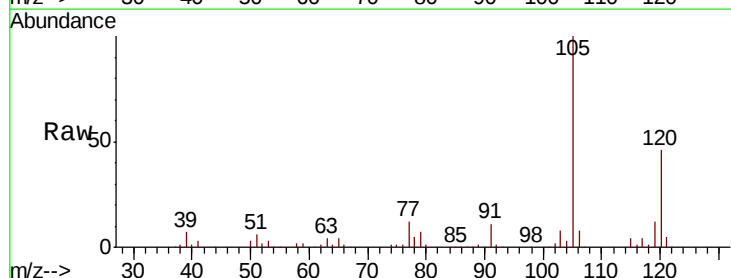


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

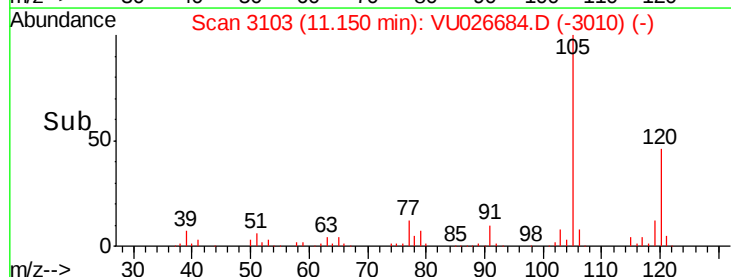
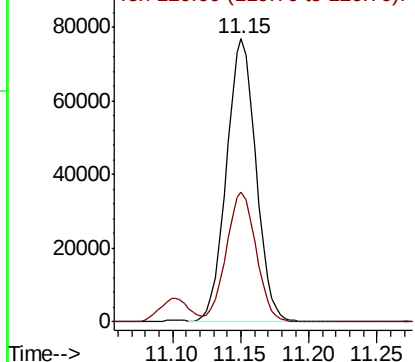


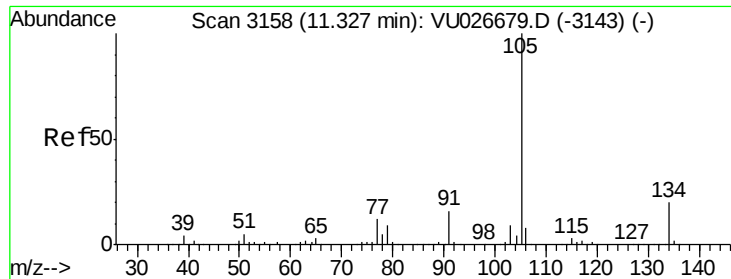
#84
1,2,4-Trimethylbenzene
Concen: 22.04 ug/l
RT: 11.15 min Scan# 3103
Delta R.T. 0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	115715		
120	46.3	23.3	69.8	



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





#85

sec-Butylbenzene

Concen: 21.92 ug/l

RT: 11.32 min Scan# 3157

Delta R.T. -0.00 min

Lab File: VU026684.D

Acq: 11 Sep 2018 17:24

Instrument :

MSVOA_U

ClientSampleId :

VU0912MBS01

Tot Ion:105 Resp: 137506

Ion Ratio Lower Upper

105 100

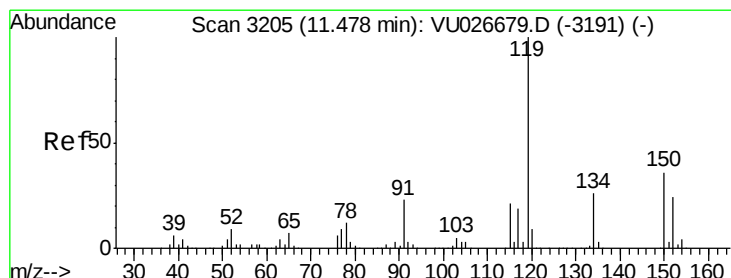
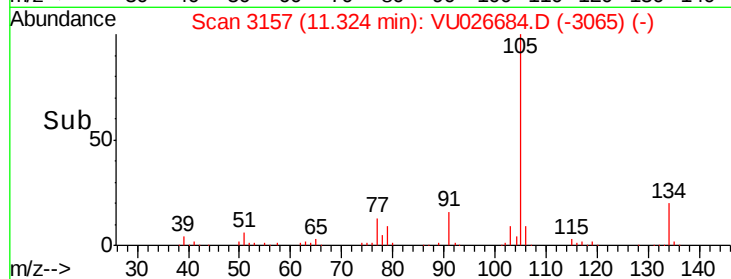
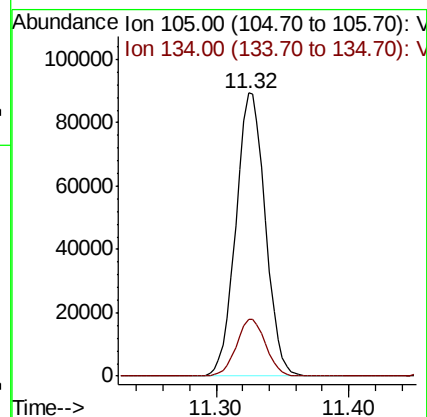
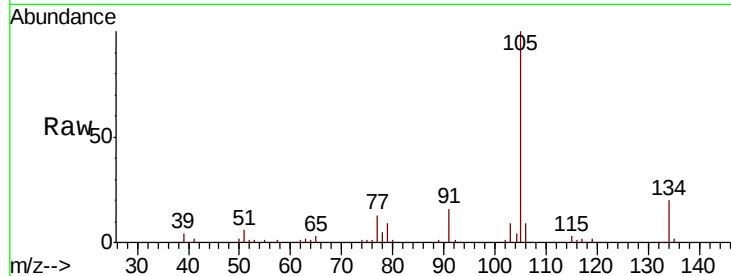
134 19.9 10.1 30.1

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#86

p-Isopropyltoluene

Concen: 20.51 ug/l

RT: 11.48 min Scan# 3205

Delta R.T. 0.00 min

Lab File: VU026684.D

Acq: 11 Sep 2018 17:24

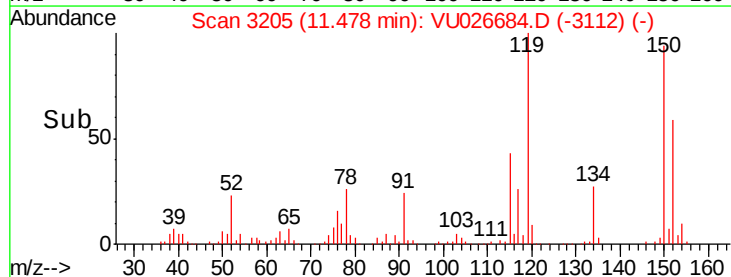
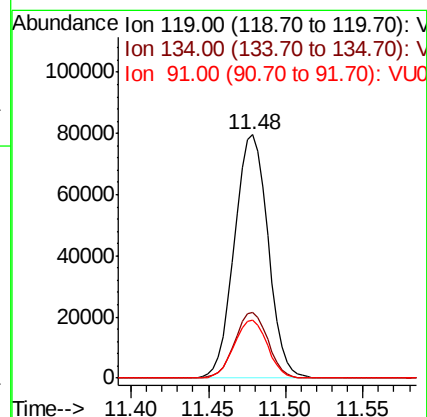
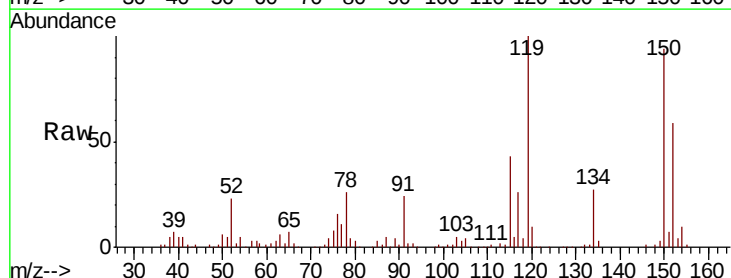
Tgt Ion:119 Resp: 119886

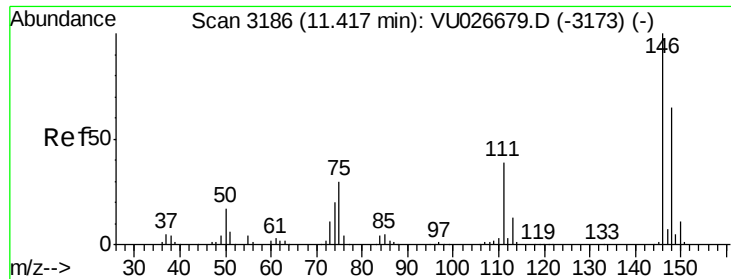
Ion Ratio Lower Upper

119 100

134 26.7 13.2 39.5

91 23.7 11.6 34.8





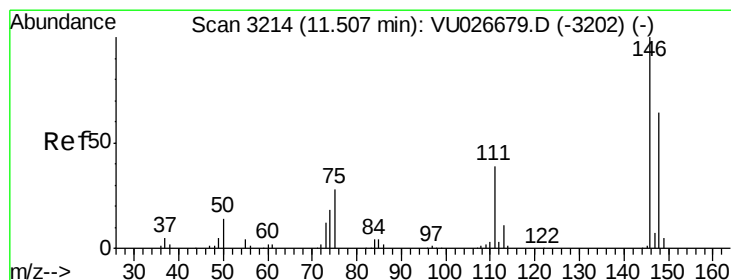
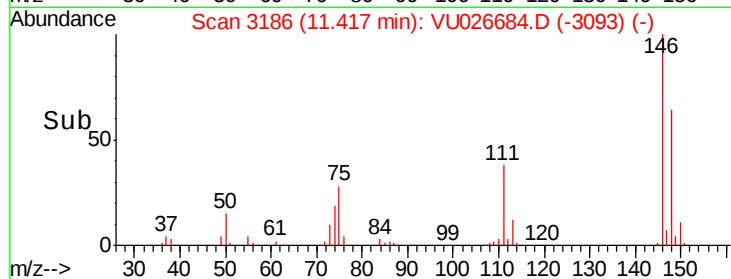
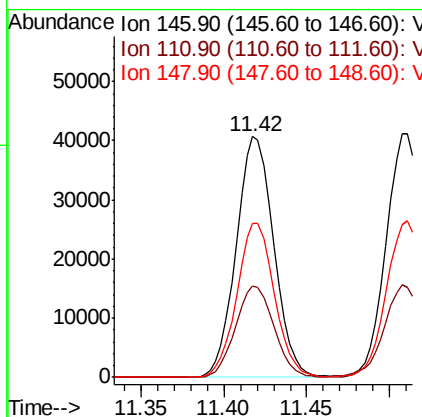
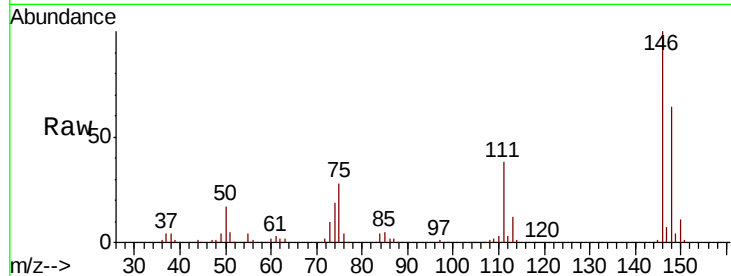
#87
 1,3-Dichlorobenzene
 Concen: 20.45 ug/l
 RT: 11.42 min Scan# 3186
 Delta R.T. 0.00 min
 Lab File: VU026684.D
 Acq: 11 Sep 2018 17:24

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0912MBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.5	19.7	59.1
148	63.8	32.1	96.3

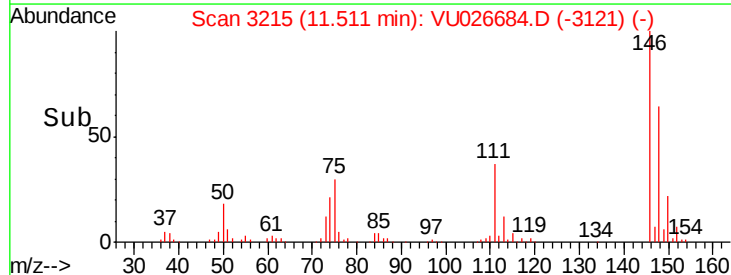
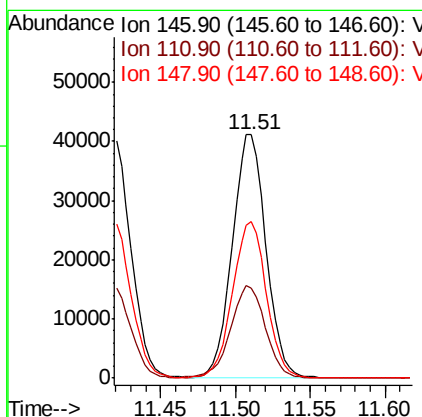
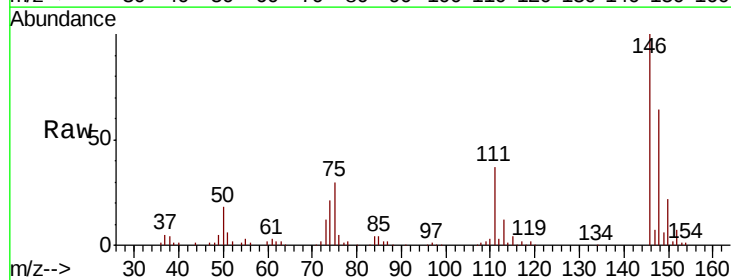
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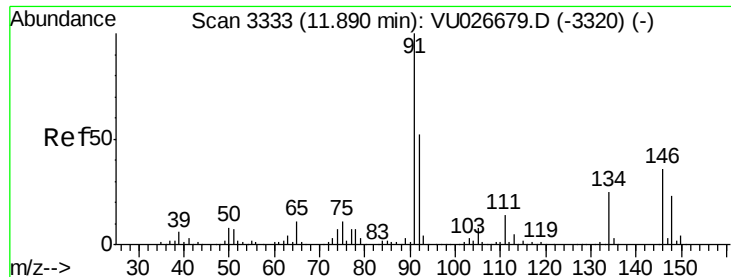
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#88
 1,4-Dichlorobenzene
 Concen: 19.81 ug/l
 RT: 11.51 min Scan# 3215
 Delta R.T. 0.00 min
 Lab File: VU026684.D
 Acq: 11 Sep 2018 17:24

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.4	19.2	57.6
148	64.7	32.1	96.3





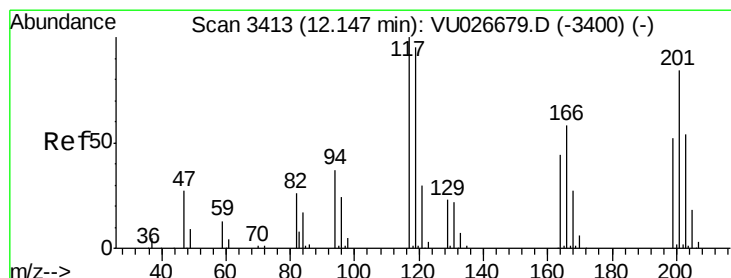
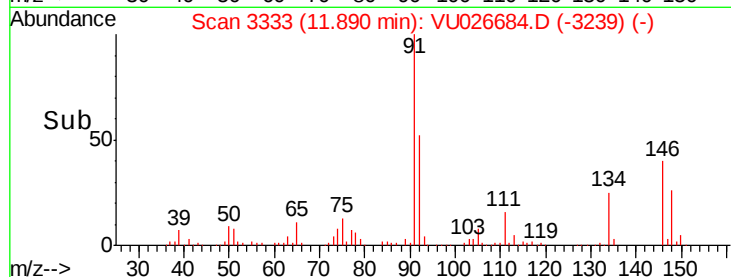
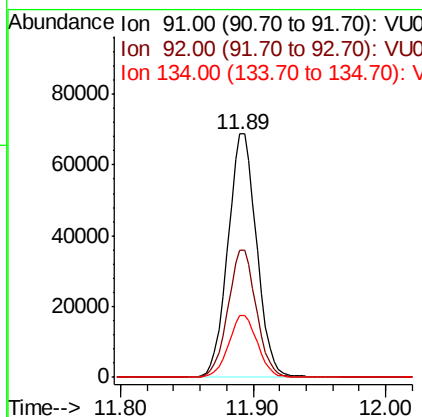
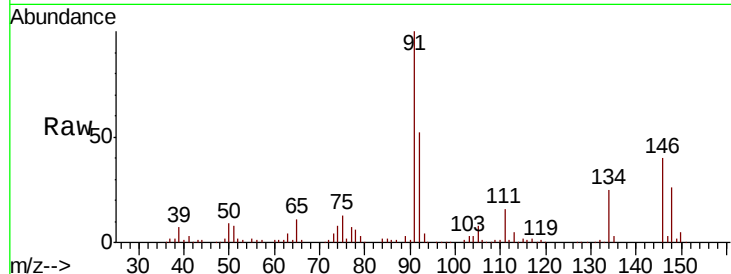
#89
n-Butylbenzene
Concen: 20.00 ug/l
RT: 11.89 min Scan# 3333
Delta R.T. 0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Instrument :
MSVOA_U
ClientSampleId :
VU0912MBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.5	25.8	77.3
134	25.3	12.6	37.8

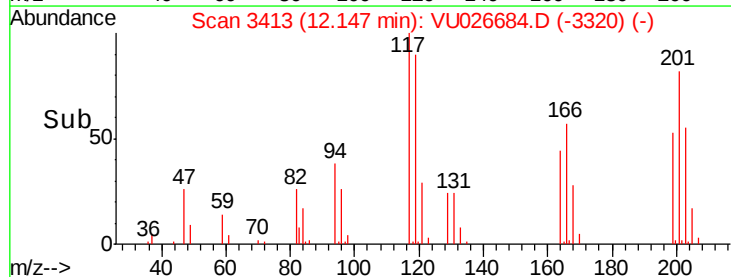
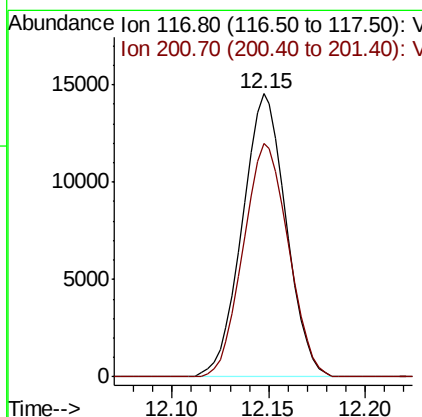
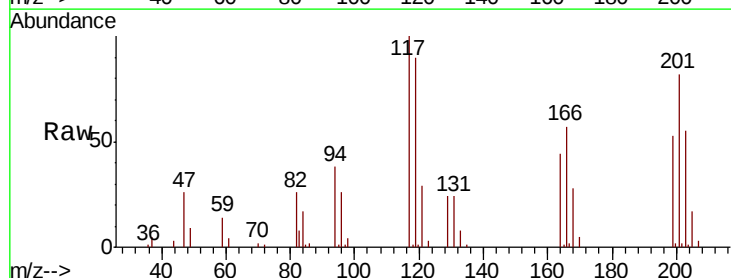
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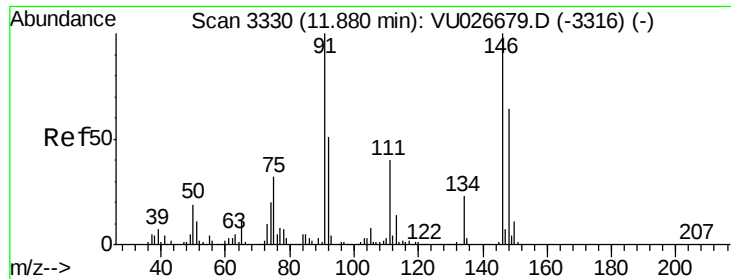
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#90
Hexachloroethane
Concen: 20.69 ug/l
RT: 12.15 min Scan# 3413
Delta R.T. 0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Tgt Ion	Ratio	Lower	Upper
117	100		
201	84.7	42.4	127.1





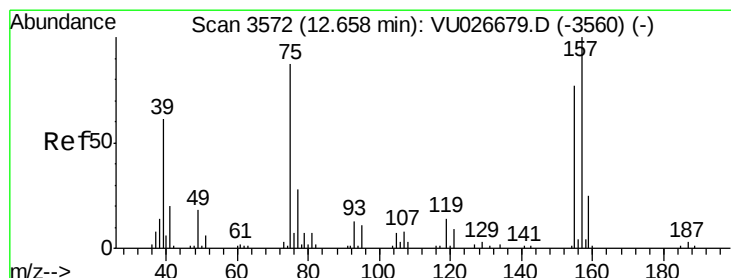
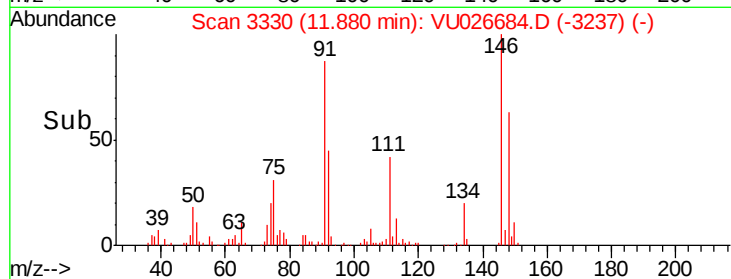
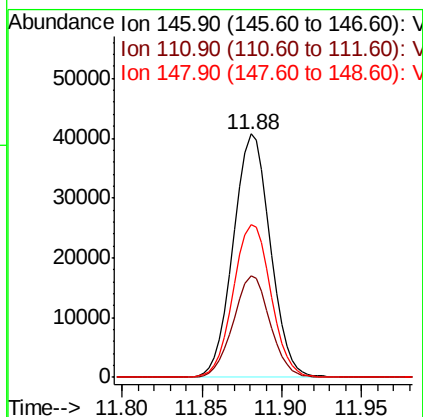
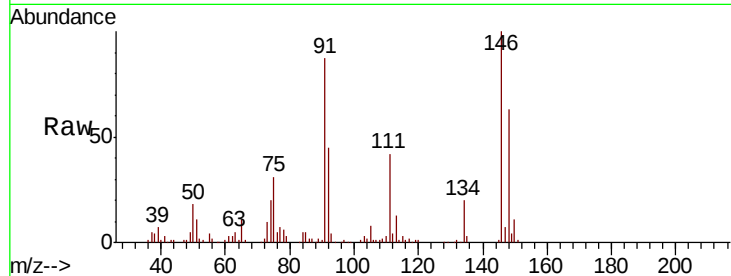
#91
 1,2-Dichlorobenzene
 Concen: 20.29 ug/l
 RT: 11.88 min Scan# 3330
 Delta R.T. 0.00 min
 Lab File: VU026684.D
 Acq: 11 Sep 2018 17:24

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0912MBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.3	20.3	60.8
148	63.9	32.1	96.3

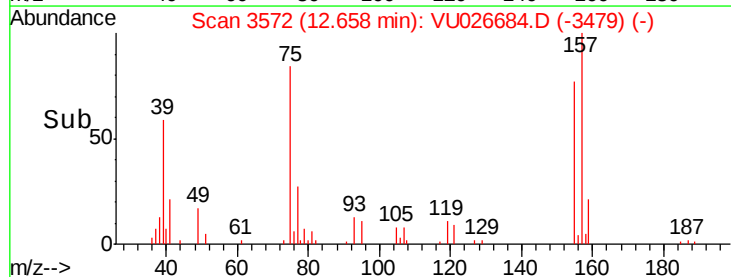
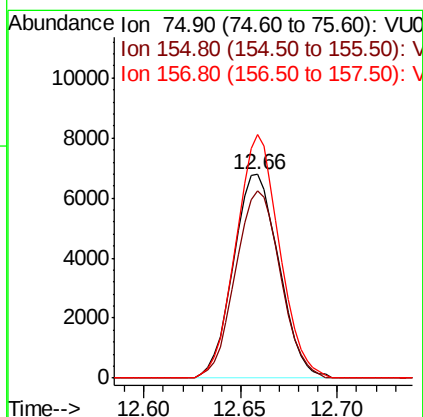
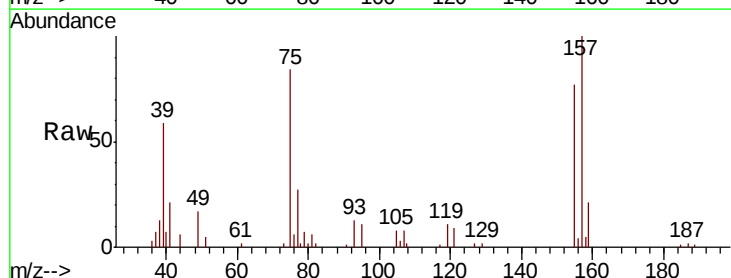
Manual Integrations
 APPROVED

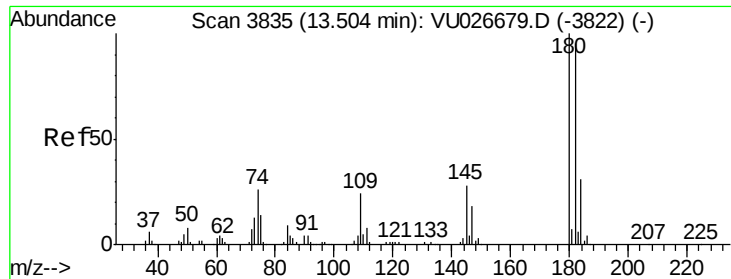
MMDadoda
 9/13/2018 4:48:57 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 22.02 ug/l
 RT: 12.66 min Scan# 3572
 Delta R.T. 0.00 min
 Lab File: VU026684.D
 Acq: 11 Sep 2018 17:24

Tgt Ion	Ratio	Lower	Upper
75	100		
155	90.6	44.1	132.4
157	113.8	57.2	171.6





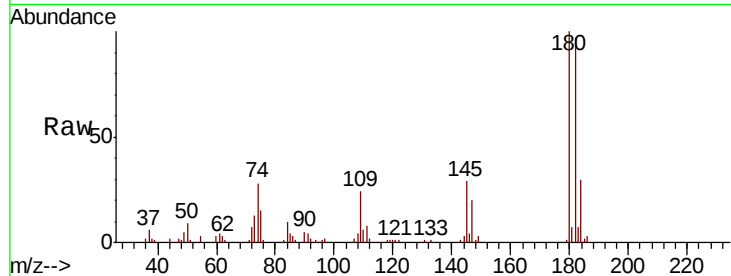
#93
 1,2,4-Trichlorobenzene
 Concen: 20.61 ug/l
 RT: 13.50 min Scan# 3835
 Delta R.T. 0.00 min
 Lab File: VU026684.D
 Acq: 11 Sep 2018 17:24

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0912MBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.6	47.9	143.7
145	27.7	14.0	42.0

Manual Integrations
 APPROVED

MMDadoda
 9/13/2018 4:48:57 PM

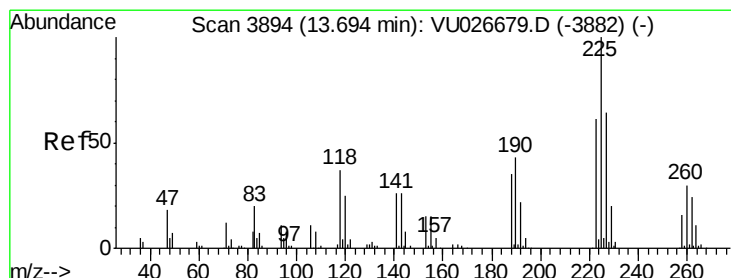
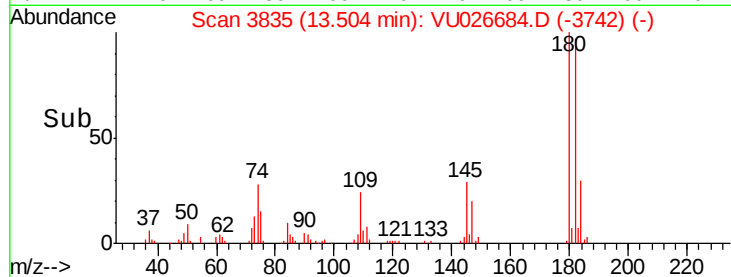
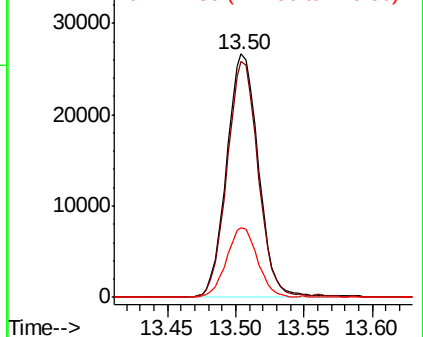


Abundance

Ion 179.80 (179.50 to 180.50): V

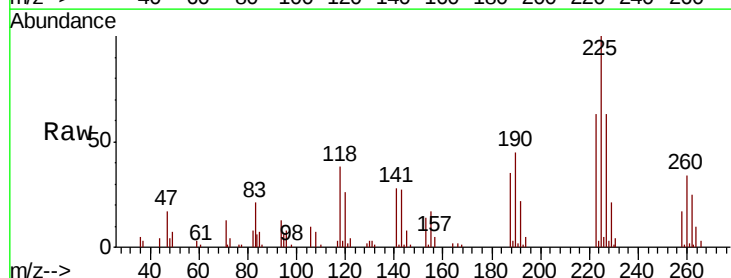
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 20.91 ug/l
 RT: 13.69 min Scan# 3894
 Delta R.T. 0.00 min
 Lab File: VU026684.D
 Acq: 11 Sep 2018 17:24

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.0	30.6	92.0
227	64.3	32.1	96.3

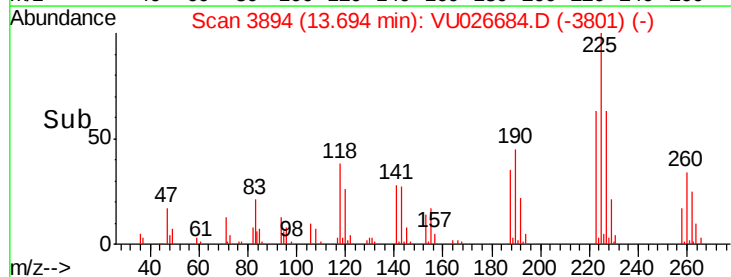
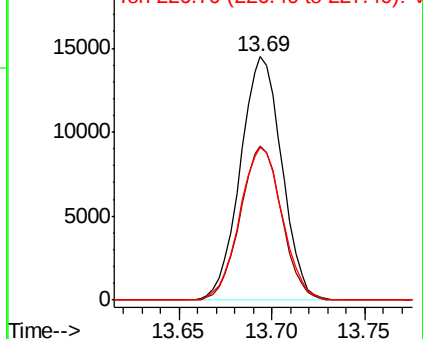


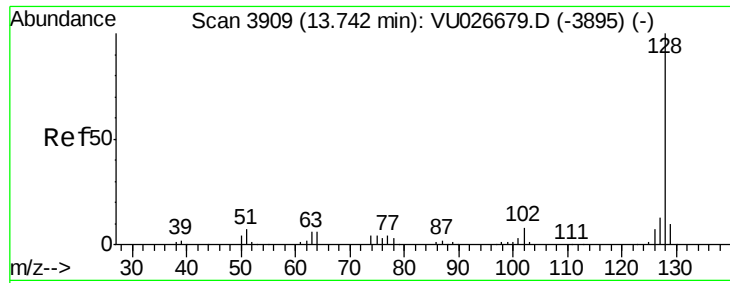
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





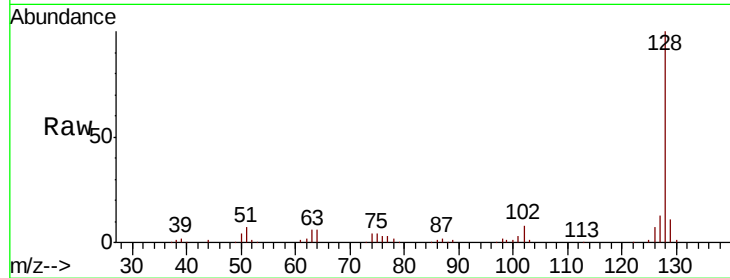
#95
Naphthalene
Concen: 20.22 ug/l
RT: 13.75 min Scan# 3910
Delta R.T. 0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Instrument :
MSVOA_U
ClientSampleId :
VU0912MBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	138327		
127	13.2		10.4	15.6
129	10.9		8.6	12.8

Manual Integrations
APPROVED

MMDadoda
9/13/2018 4:48:57 PM

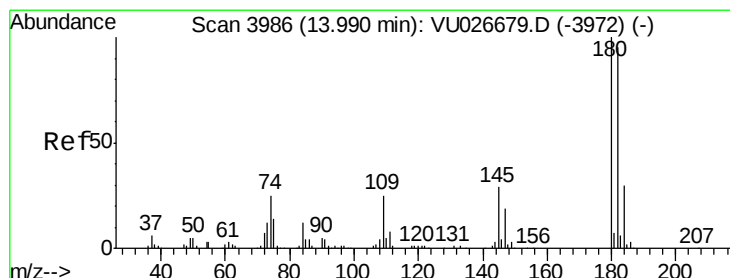
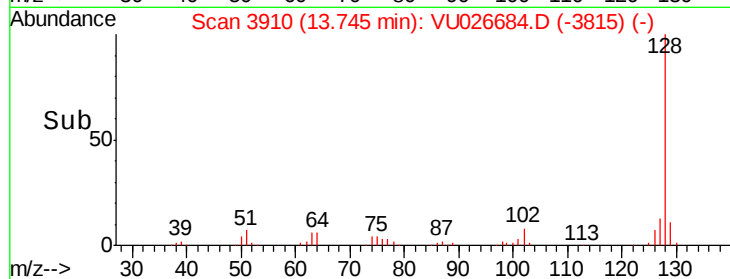
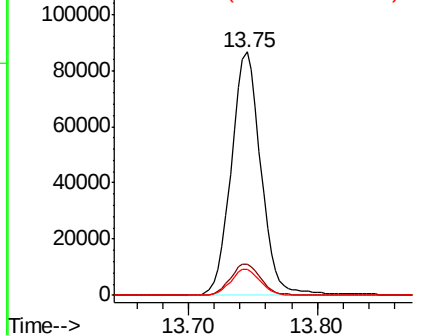


Abundance

Ion 128.00 (127.70 to 128.70): V

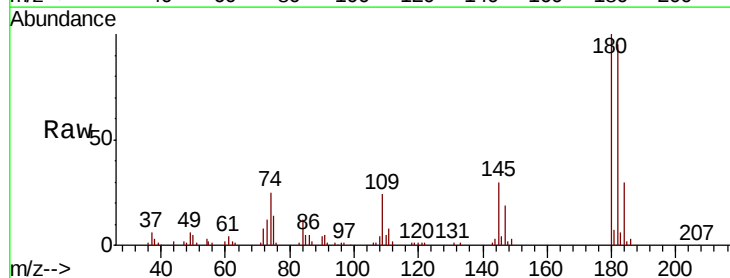
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 21.16 ug/l
RT: 13.99 min Scan# 3986
Delta R.T. 0.00 min
Lab File: VU026684.D
Acq: 11 Sep 2018 17:24

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	46359		
182	96.4		47.9	143.7
145	28.9		14.9	44.9



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

